

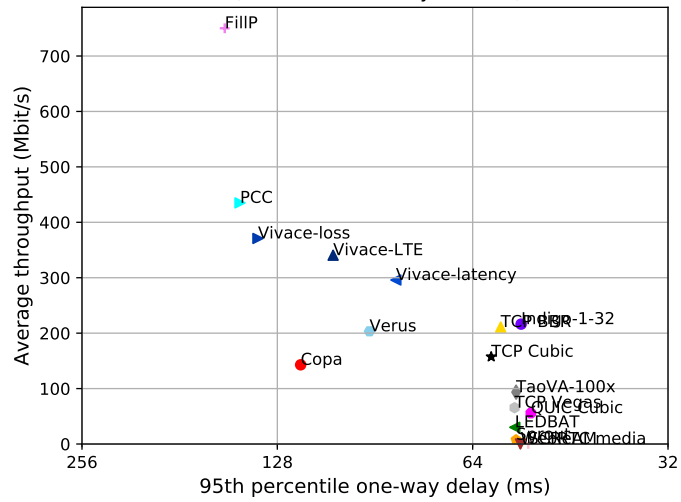
Pantheon Report

Generated at 2018-04-10 18:00:37 (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**).

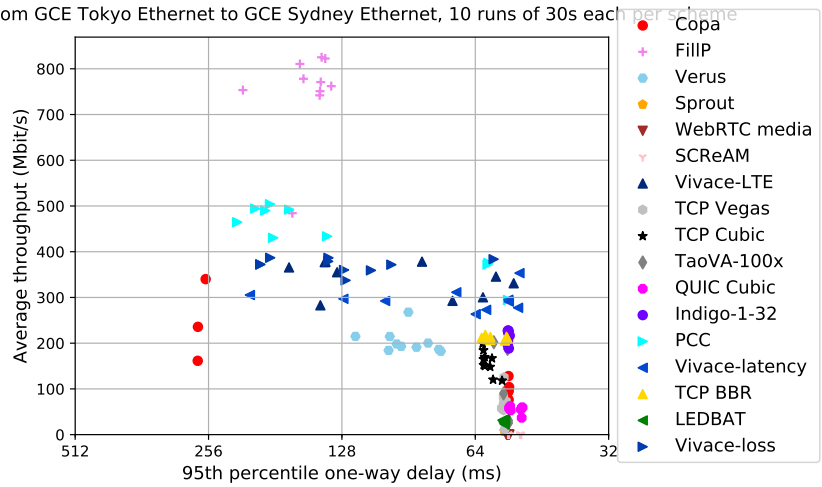
Git summary:

```
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	211.03	57.94	0.38
TCP Cubic	10	157.43	59.93	0.38
LEDBAT	10	30.04	55.12	0.72
PCC	10	435.04	146.12	1.09
QUIC Cubic	9	55.84	52.06	0.55
SCReAM	10	0.21	52.54	0.38
WebRTC media	10	0.06	54.02	0.00
Sprout	10	7.73	54.87	0.35
TaoVA-100x	6	93.55	54.86	0.08
TCP Vegas	10	65.47	55.16	0.30
Verus	10	203.33	92.31	0.48
Copa	10	142.88	117.83	8.92
FillP	10	750.02	154.25	4.90
Indigo-1-32	10	216.27	53.89	0.35
Vivace-latency	10	295.88	84.06	0.53
Vivace-loss	10	370.85	137.11	0.60
Vivace-LTE	10	340.70	105.01	0.47

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 11:48:56

End at: 2018-04-10 11:49:26

Below is generated by plot.py at 2018-04-10 16:41:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.37 Mbit/s

95th percentile per-packet one-way delay: 59.146 ms

Loss rate: 0.40%

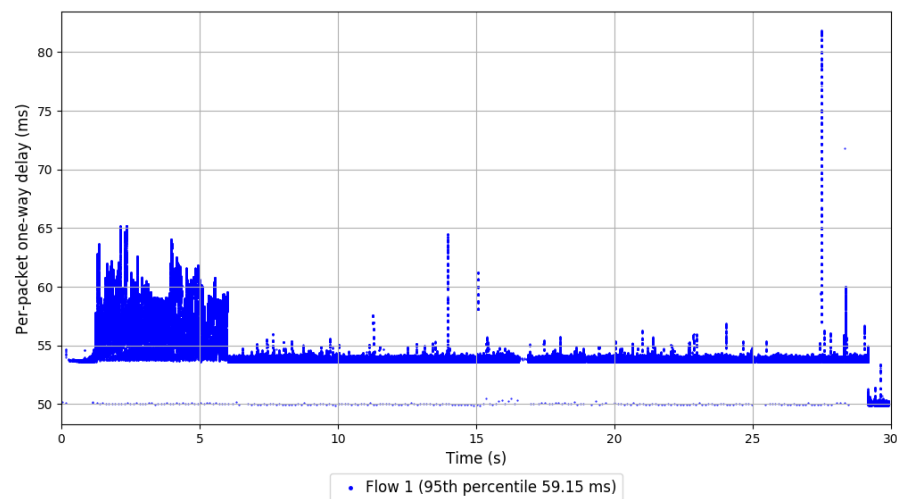
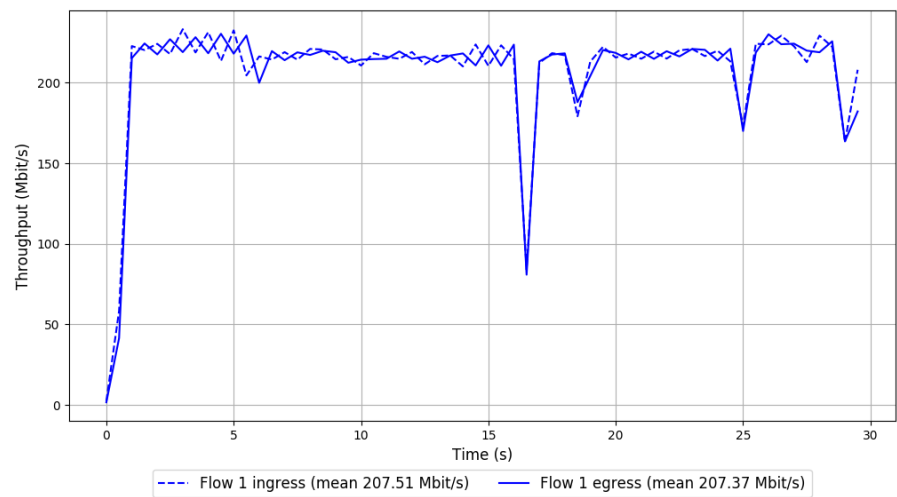
-- Flow 1:

Average throughput: 207.37 Mbit/s

95th percentile per-packet one-way delay: 59.146 ms

Loss rate: 0.40%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 12:03:04

End at: 2018-04-10 12:03:34

Below is generated by plot.py at 2018-04-10 16:41:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.94 Mbit/s

95th percentile per-packet one-way delay: 60.034 ms

Loss rate: 0.39%

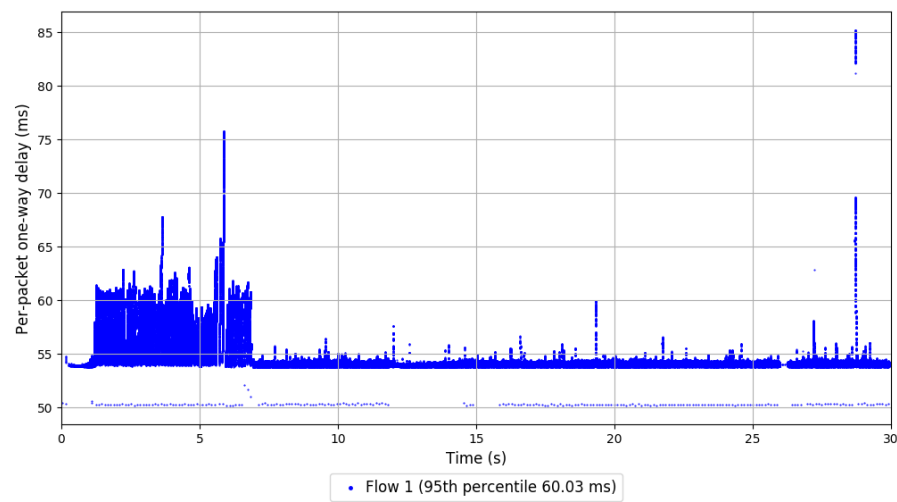
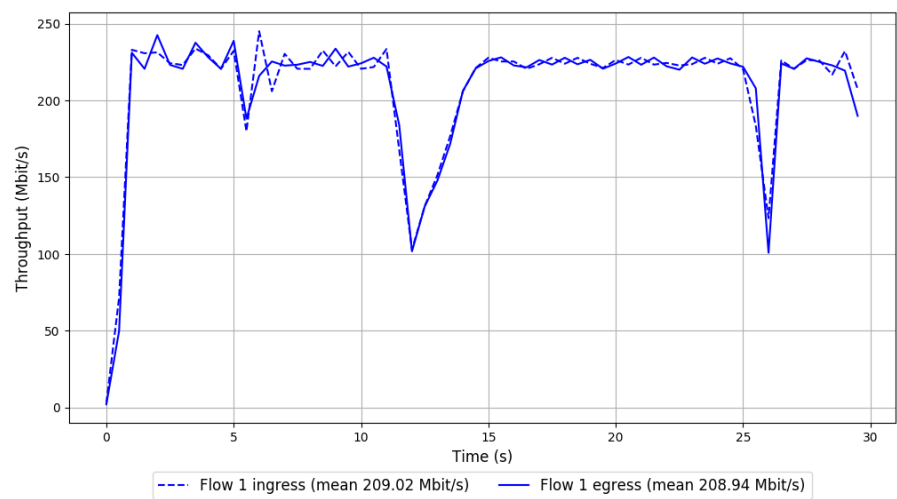
-- Flow 1:

Average throughput: 208.94 Mbit/s

95th percentile per-packet one-way delay: 60.034 ms

Loss rate: 0.39%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 12:17:34

End at: 2018-04-10 12:18:04

Below is generated by plot.py at 2018-04-10 16:41:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.40 Mbit/s

95th percentile per-packet one-way delay: 59.162 ms

Loss rate: 0.38%

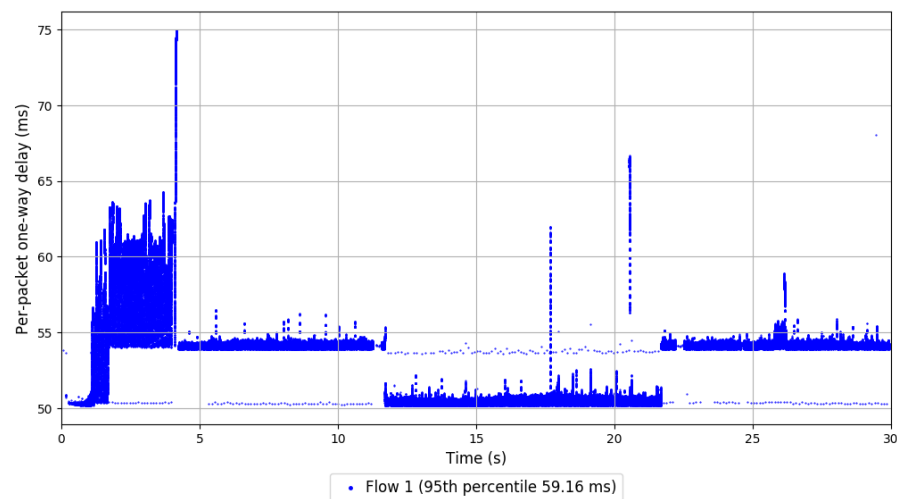
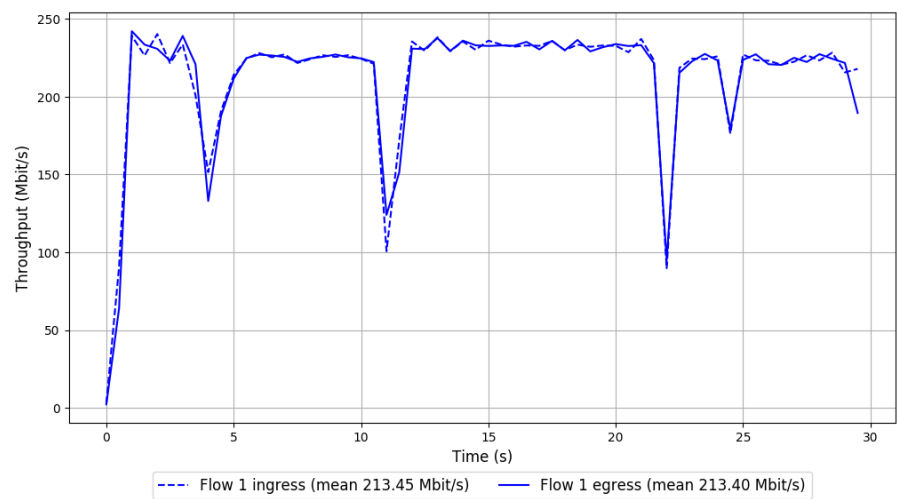
-- Flow 1:

Average throughput: 213.40 Mbit/s

95th percentile per-packet one-way delay: 59.162 ms

Loss rate: 0.38%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 12:31:39

End at: 2018-04-10 12:32:09

Below is generated by plot.py at 2018-04-10 16:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.70 Mbit/s

95th percentile per-packet one-way delay: 61.910 ms

Loss rate: 0.36%

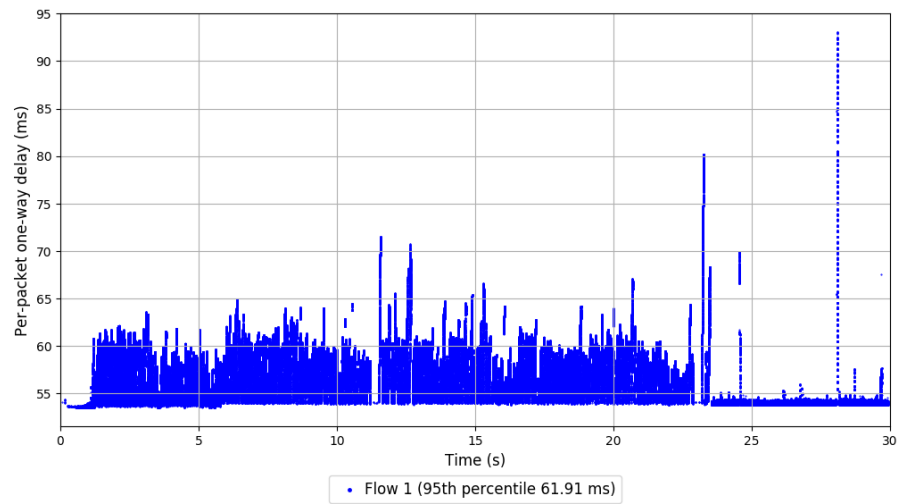
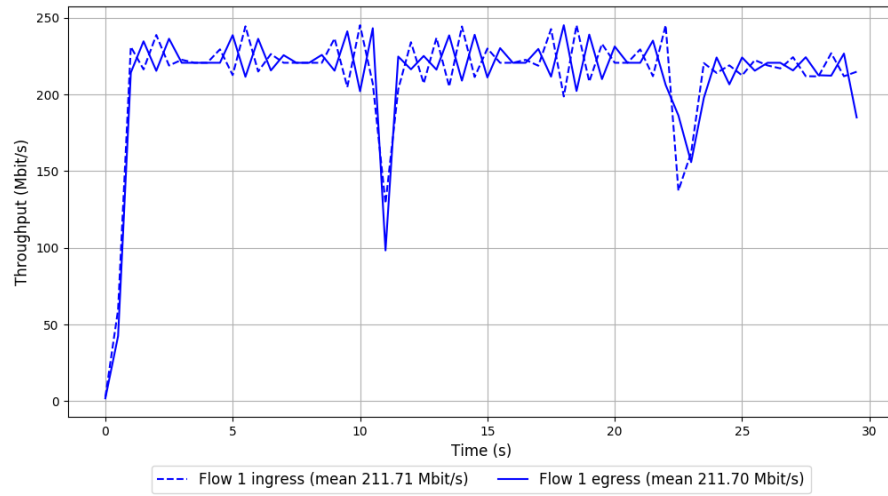
-- Flow 1:

Average throughput: 211.70 Mbit/s

95th percentile per-packet one-way delay: 61.910 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-10 12:45:26

End at: 2018-04-10 12:45:56

Below is generated by plot.py at 2018-04-10 16:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.79 Mbit/s

95th percentile per-packet one-way delay: 54.861 ms

Loss rate: 0.37%

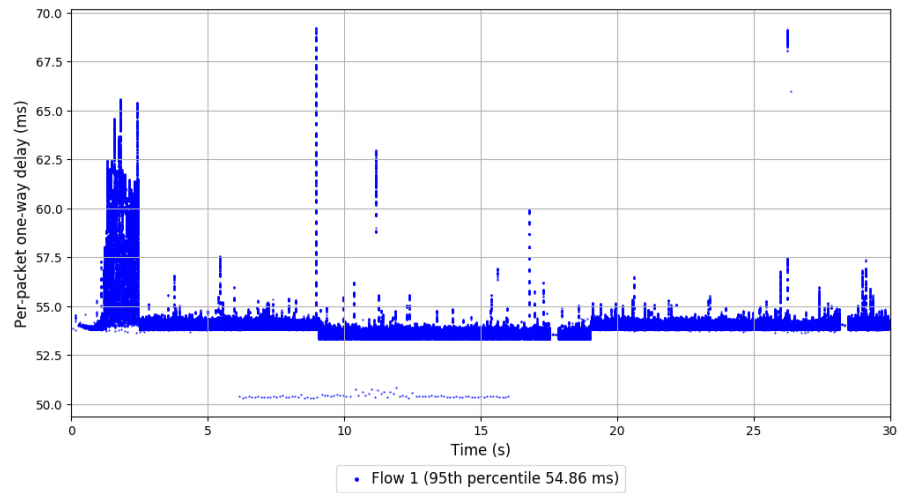
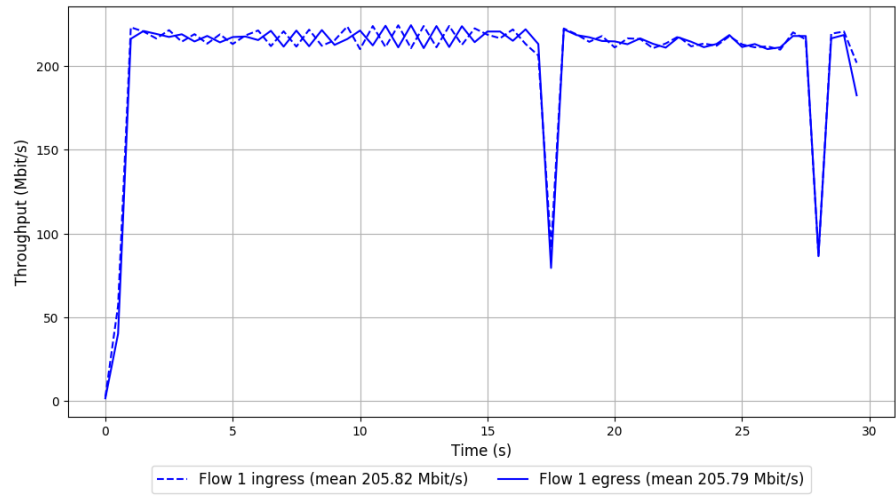
-- Flow 1:

Average throughput: 205.79 Mbit/s

95th percentile per-packet one-way delay: 54.861 ms

Loss rate: 0.37%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 12:59:25

End at: 2018-04-10 12:59:55

Below is generated by plot.py at 2018-04-10 16:41:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.18 Mbit/s

95th percentile per-packet one-way delay: 60.755 ms

Loss rate: 0.37%

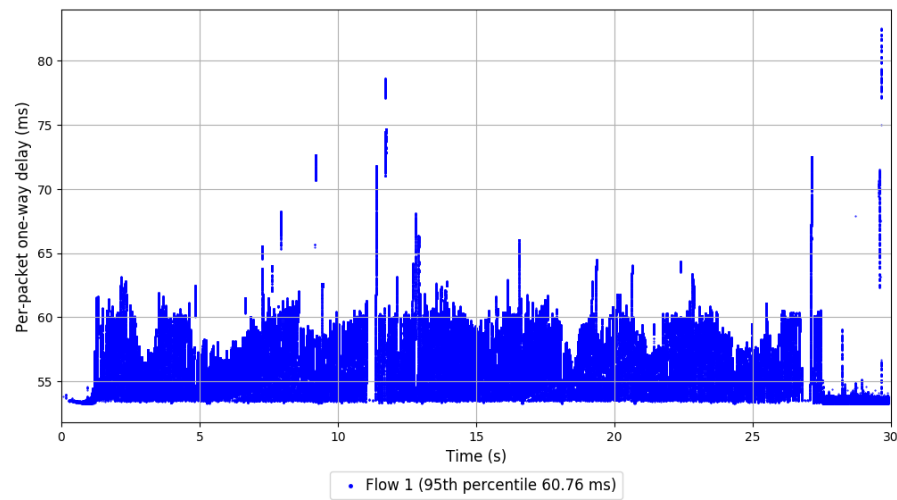
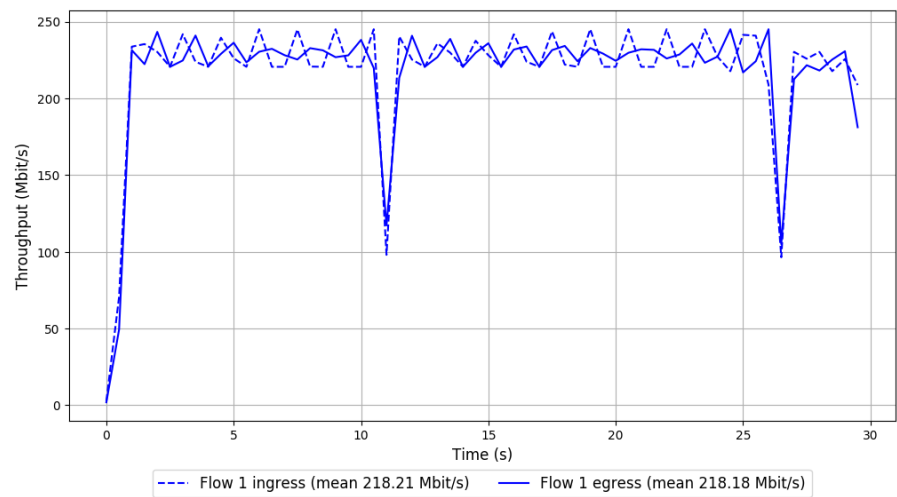
-- Flow 1:

Average throughput: 218.18 Mbit/s

95th percentile per-packet one-way delay: 60.755 ms

Loss rate: 0.37%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 13:13:26

End at: 2018-04-10 13:13:56

Below is generated by plot.py at 2018-04-10 16:41:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 0.36%

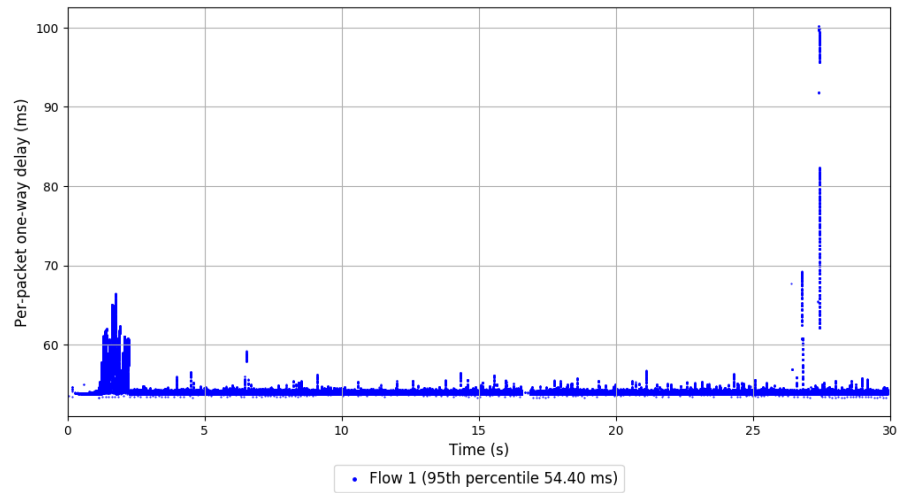
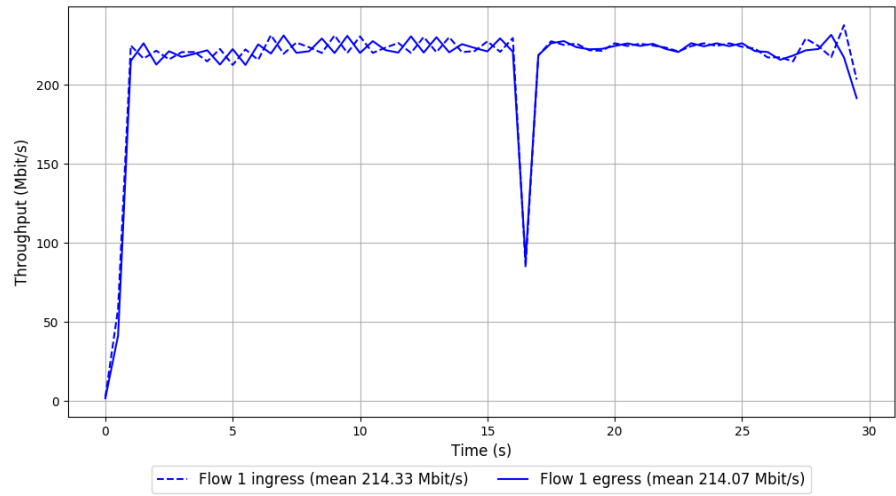
-- Flow 1:

Average throughput: 214.07 Mbit/s

95th percentile per-packet one-way delay: 54.400 ms

Loss rate: 0.36%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 13:27:30

End at: 2018-04-10 13:28:00

Below is generated by plot.py at 2018-04-10 16:41:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.35 Mbit/s

95th percentile per-packet one-way delay: 54.154 ms

Loss rate: 0.37%

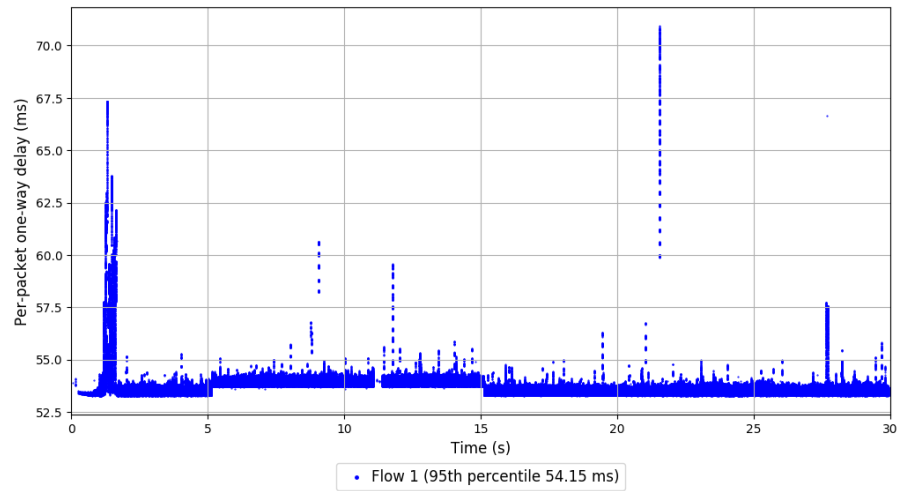
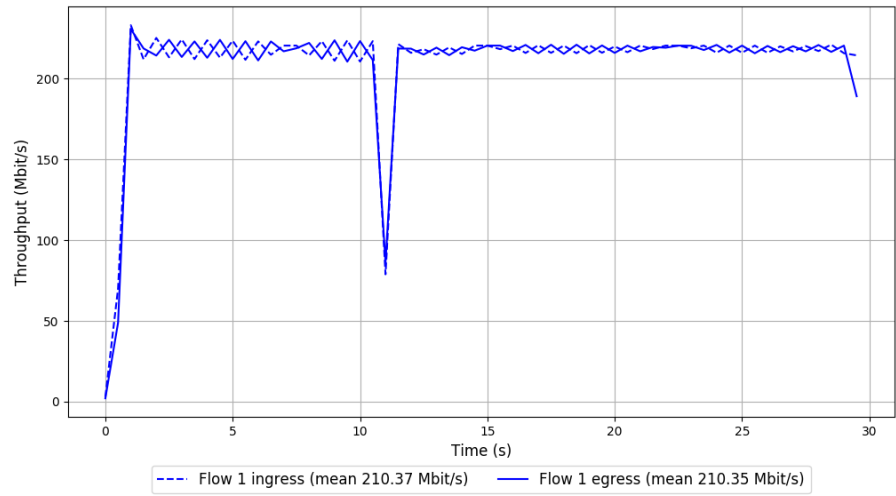
-- Flow 1:

Average throughput: 210.35 Mbit/s

95th percentile per-packet one-way delay: 54.154 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 13:41:48

End at: 2018-04-10 13:42:18

Below is generated by plot.py at 2018-04-10 16:44:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.52 Mbit/s

95th percentile per-packet one-way delay: 60.735 ms

Loss rate: 0.37%

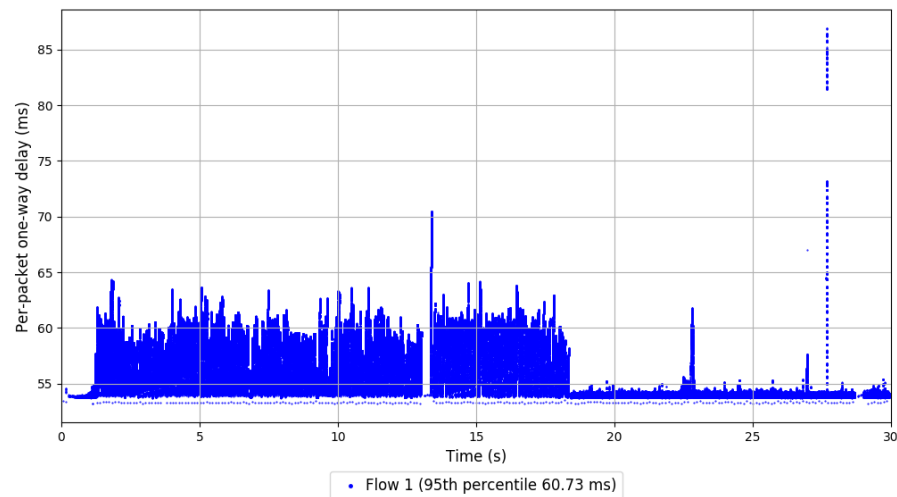
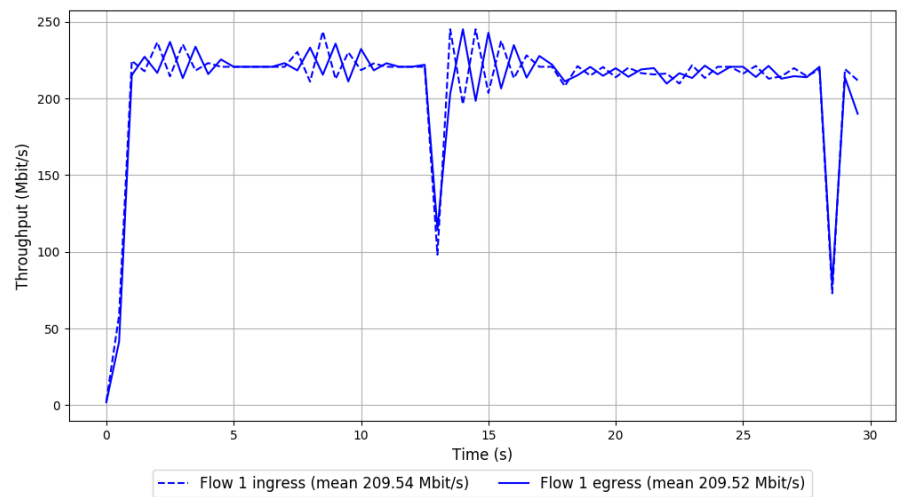
-- Flow 1:

Average throughput: 209.52 Mbit/s

95th percentile per-packet one-way delay: 60.735 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-10 13:55:59

End at: 2018-04-10 13:56:29

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.00 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.38%

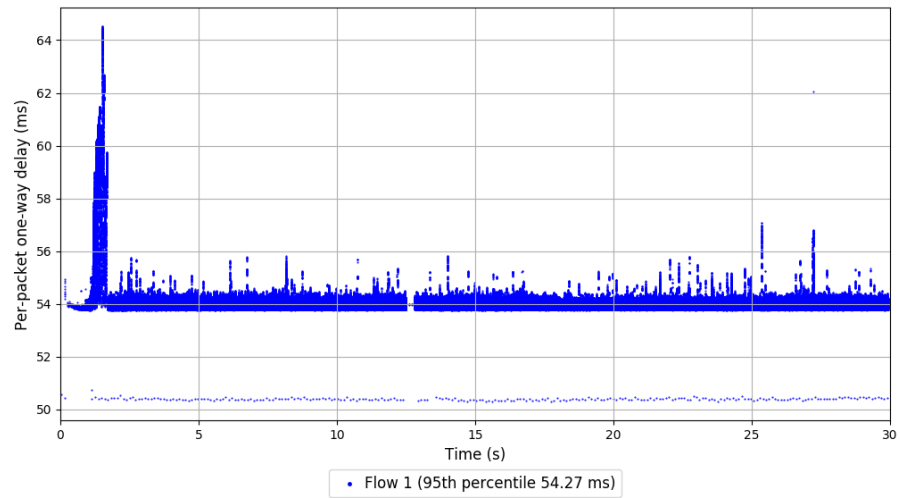
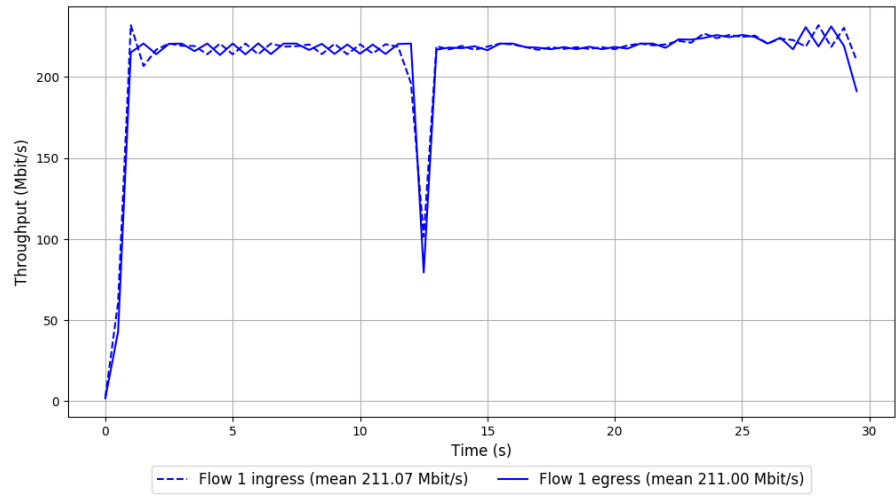
-- Flow 1:

Average throughput: 211.00 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.38%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 11:45:25

End at: 2018-04-10 11:45:55

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.20 Mbit/s

95th percentile per-packet one-way delay: 59.233 ms

Loss rate: 0.25%

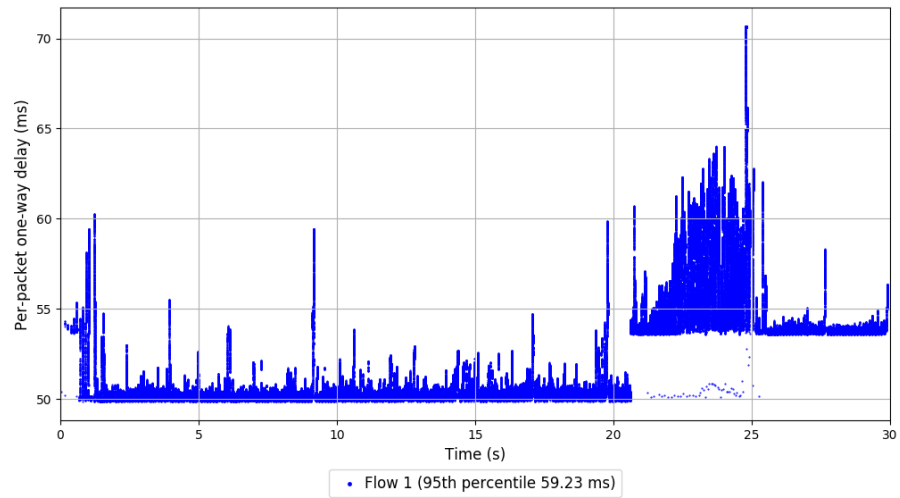
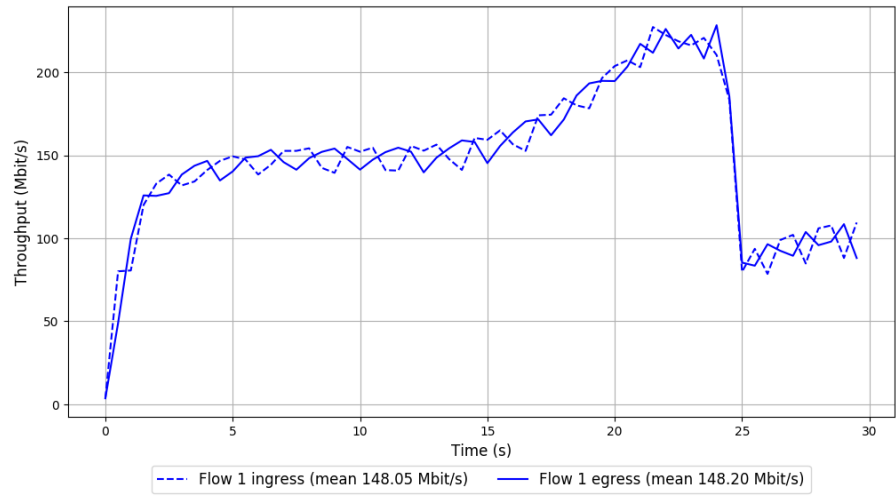
-- Flow 1:

Average throughput: 148.20 Mbit/s

95th percentile per-packet one-way delay: 59.233 ms

Loss rate: 0.25%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 11:59:47

End at: 2018-04-10 12:00:17

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.46 Mbit/s

95th percentile per-packet one-way delay: 61.327 ms

Loss rate: 0.28%

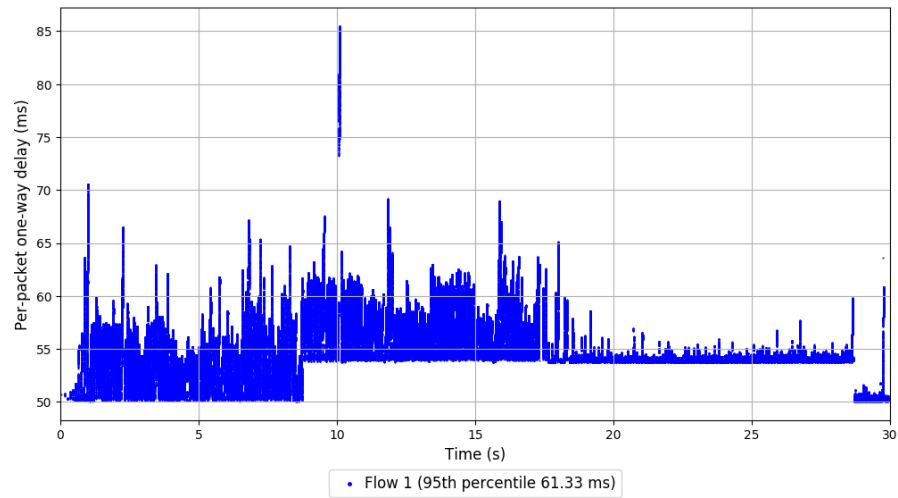
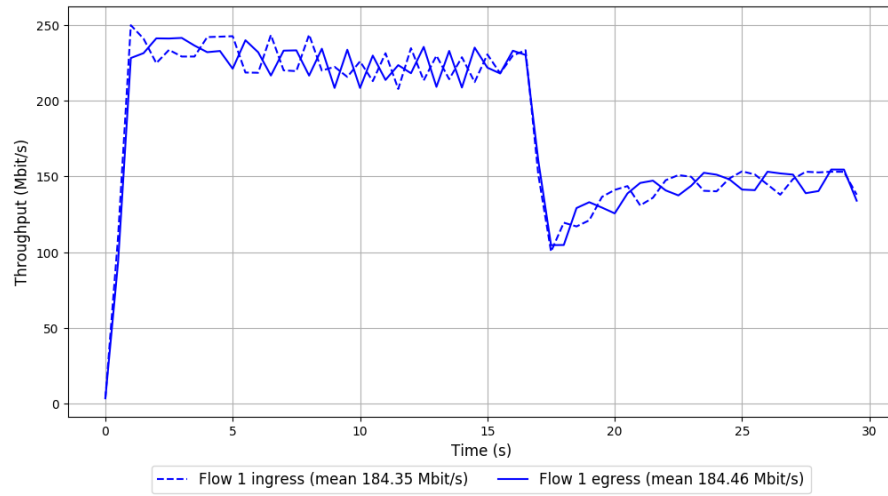
-- Flow 1:

Average throughput: 184.46 Mbit/s

95th percentile per-packet one-way delay: 61.327 ms

Loss rate: 0.28%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 12:14:04

End at: 2018-04-10 12:14:34

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.35 Mbit/s

95th percentile per-packet one-way delay: 61.271 ms

Loss rate: 0.44%

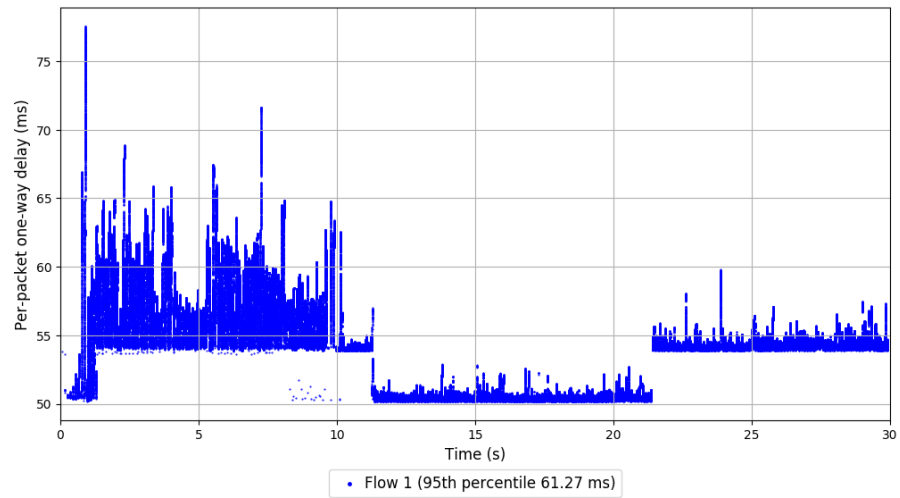
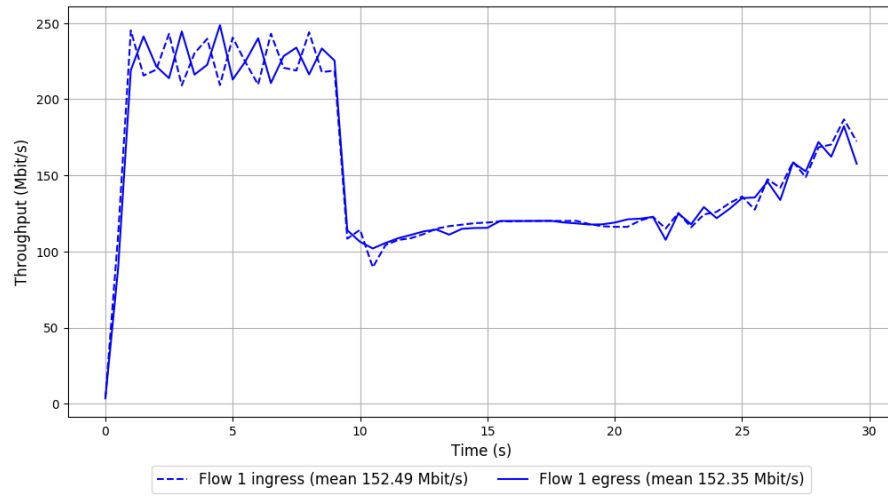
-- Flow 1:

Average throughput: 152.35 Mbit/s

95th percentile per-packet one-way delay: 61.271 ms

Loss rate: 0.44%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 12:28:20

End at: 2018-04-10 12:28:50

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.18 Mbit/s

95th percentile per-packet one-way delay: 55.683 ms

Loss rate: 0.41%

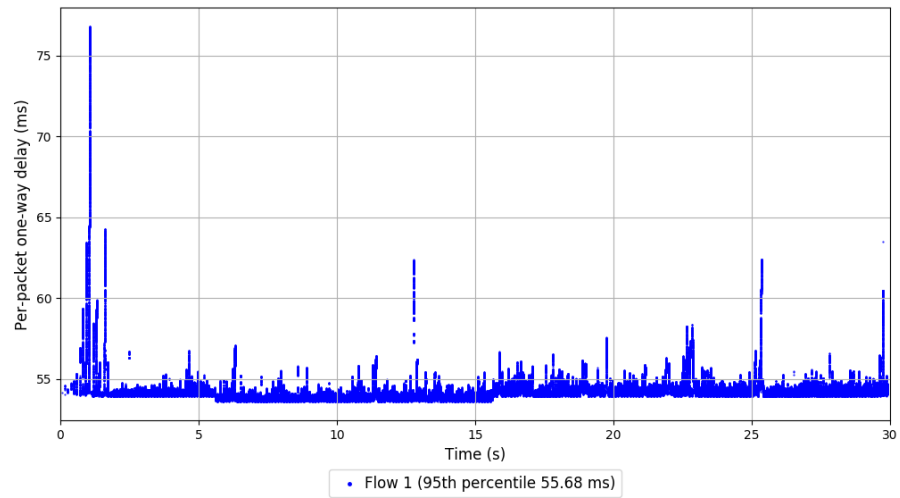
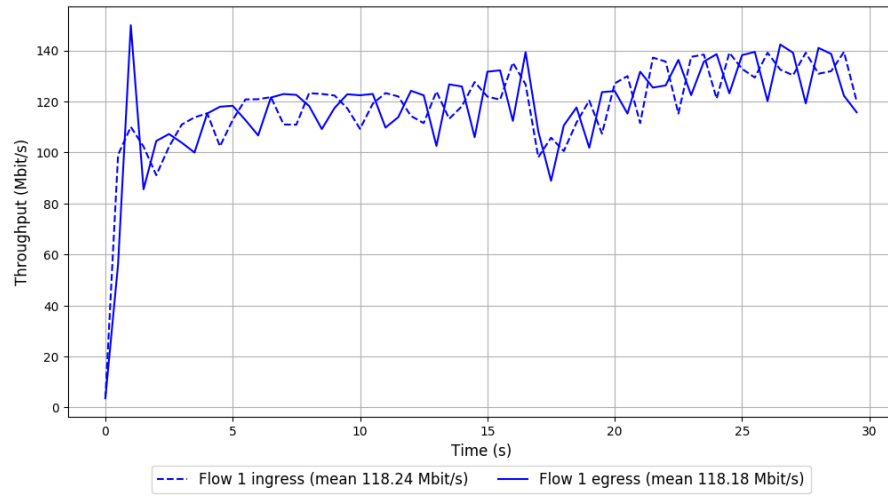
-- Flow 1:

Average throughput: 118.18 Mbit/s

95th percentile per-packet one-way delay: 55.683 ms

Loss rate: 0.41%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 12:42:09

End at: 2018-04-10 12:42:39

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.89 Mbit/s

95th percentile per-packet one-way delay: 58.682 ms

Loss rate: 0.52%

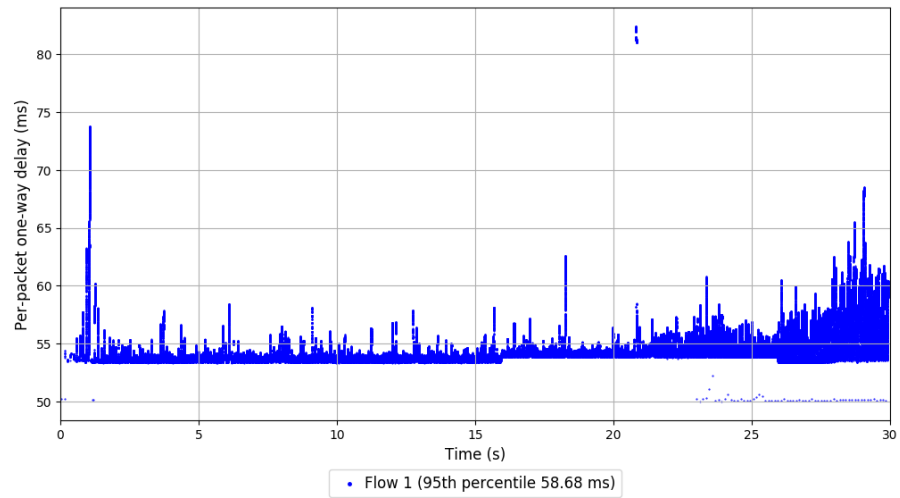
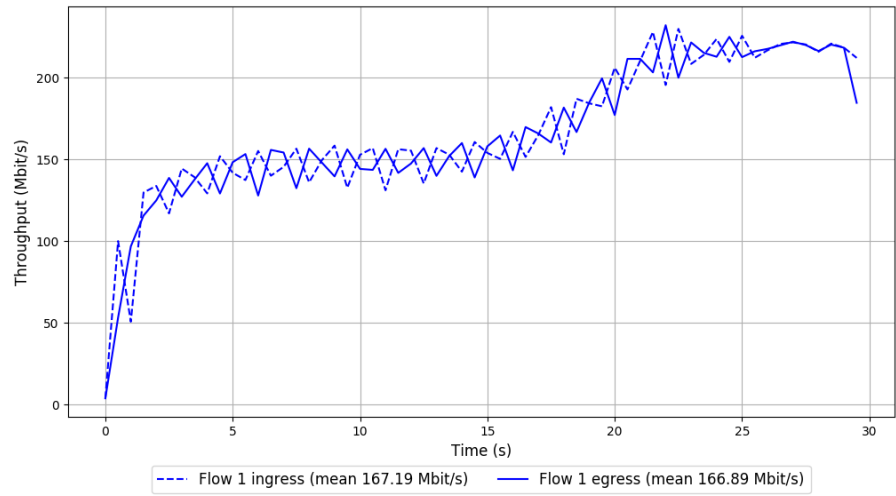
-- Flow 1:

Average throughput: 166.89 Mbit/s

95th percentile per-packet one-way delay: 58.682 ms

Loss rate: 0.52%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 12:56:08

End at: 2018-04-10 12:56:38

Below is generated by plot.py at 2018-04-10 16:44:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.09 Mbit/s

95th percentile per-packet one-way delay: 60.892 ms

Loss rate: 0.53%

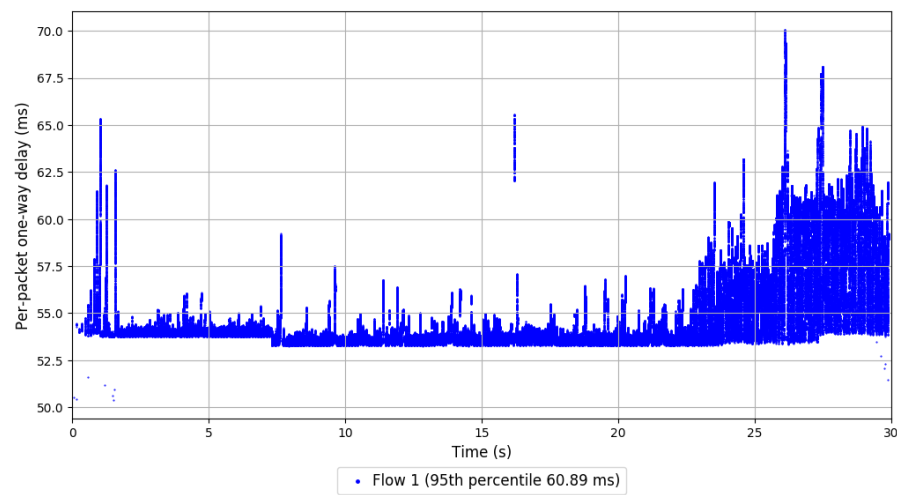
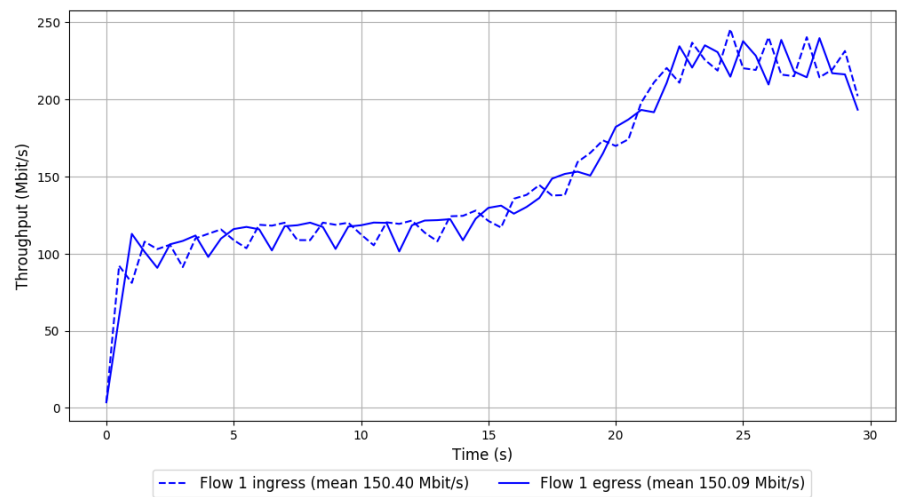
-- Flow 1:

Average throughput: 150.09 Mbit/s

95th percentile per-packet one-way delay: 60.892 ms

Loss rate: 0.53%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 13:10:12

End at: 2018-04-10 13:10:42

Below is generated by plot.py at 2018-04-10 16:45:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.28 Mbit/s

95th percentile per-packet one-way delay: 58.347 ms

Loss rate: 0.31%

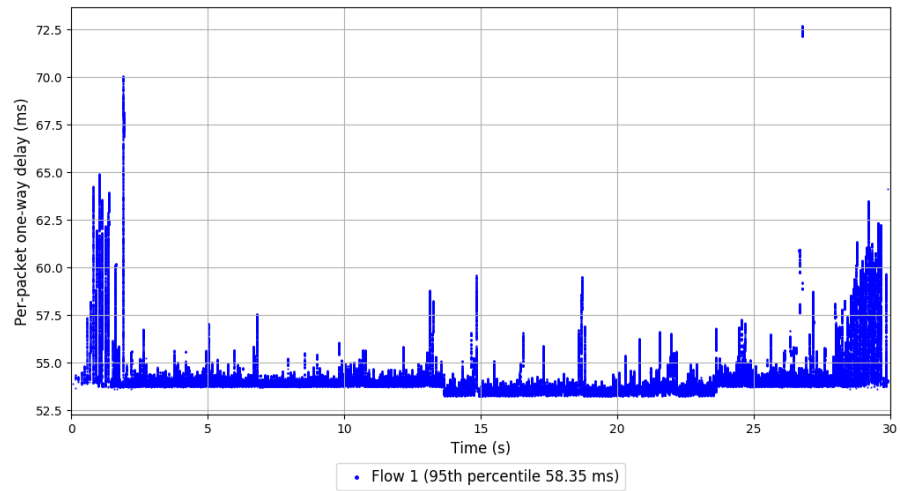
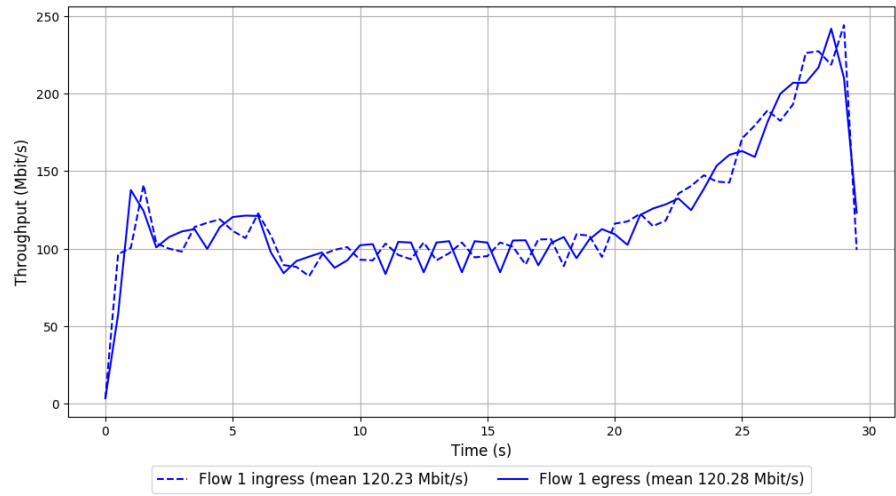
-- Flow 1:

Average throughput: 120.28 Mbit/s

95th percentile per-packet one-way delay: 58.347 ms

Loss rate: 0.31%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 13:24:13

End at: 2018-04-10 13:24:43

Below is generated by plot.py at 2018-04-10 16:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.09 Mbit/s

95th percentile per-packet one-way delay: 61.317 ms

Loss rate: 0.49%

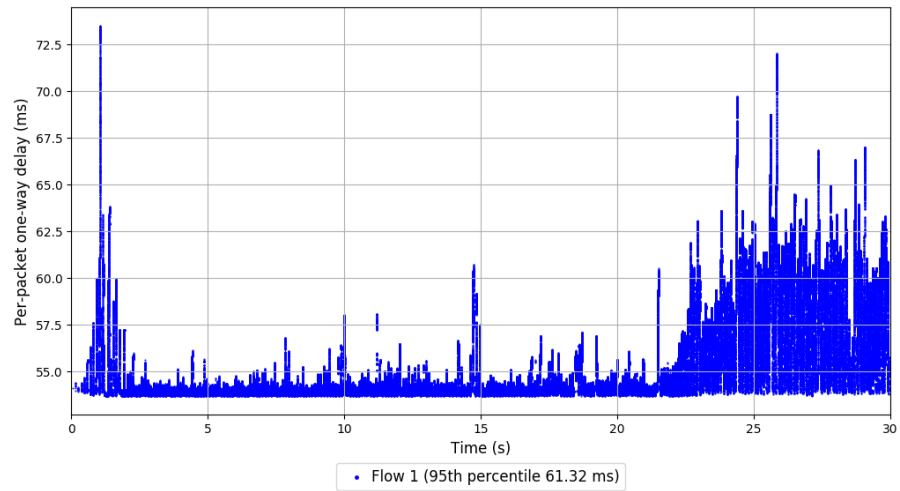
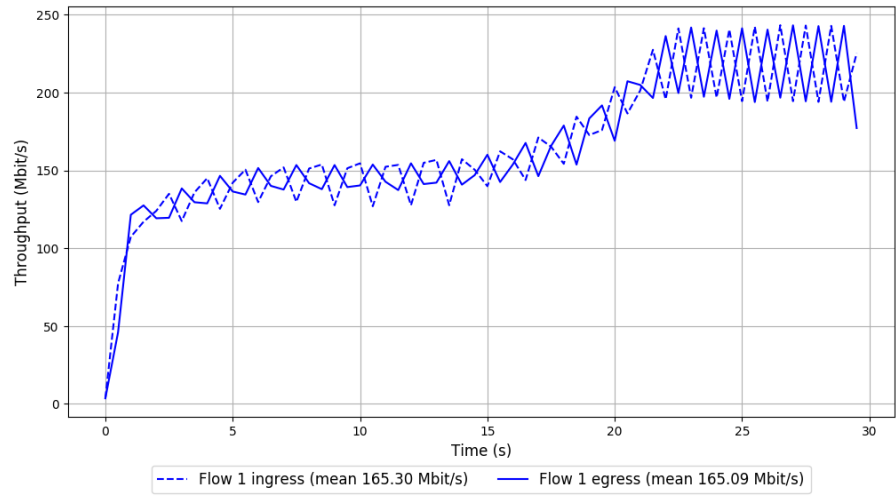
-- Flow 1:

Average throughput: 165.09 Mbit/s

95th percentile per-packet one-way delay: 61.317 ms

Loss rate: 0.49%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 13:38:26

End at: 2018-04-10 13:38:56

Below is generated by plot.py at 2018-04-10 16:47:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 60.968 ms

Loss rate: 0.36%

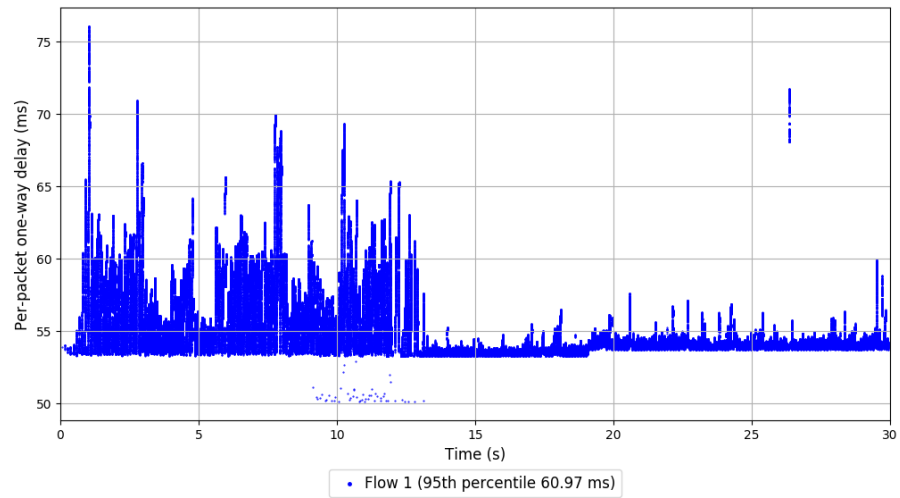
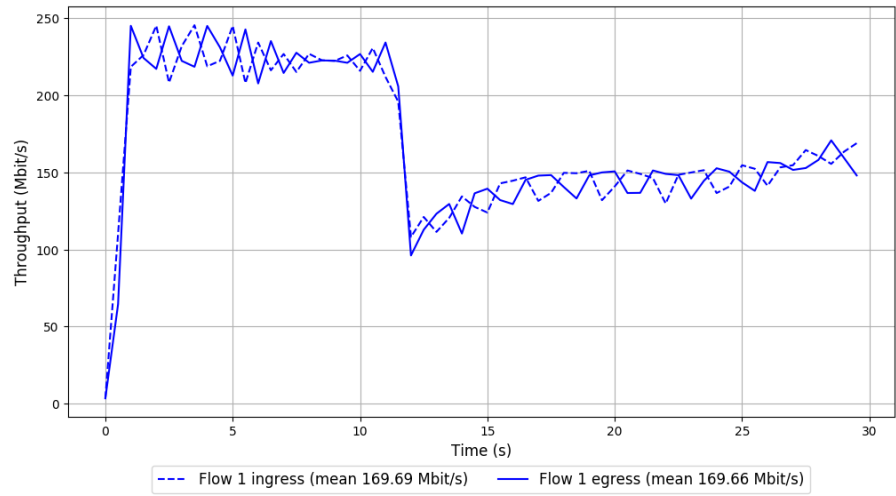
-- Flow 1:

Average throughput: 169.66 Mbit/s

95th percentile per-packet one-way delay: 60.968 ms

Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 13:52:41

End at: 2018-04-10 13:53:11

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.06 Mbit/s

95th percentile per-packet one-way delay: 61.586 ms

Loss rate: 0.25%

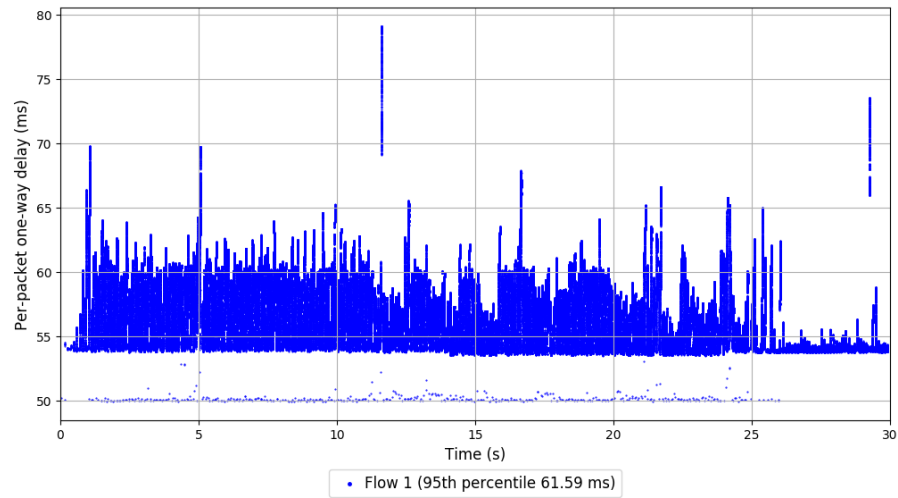
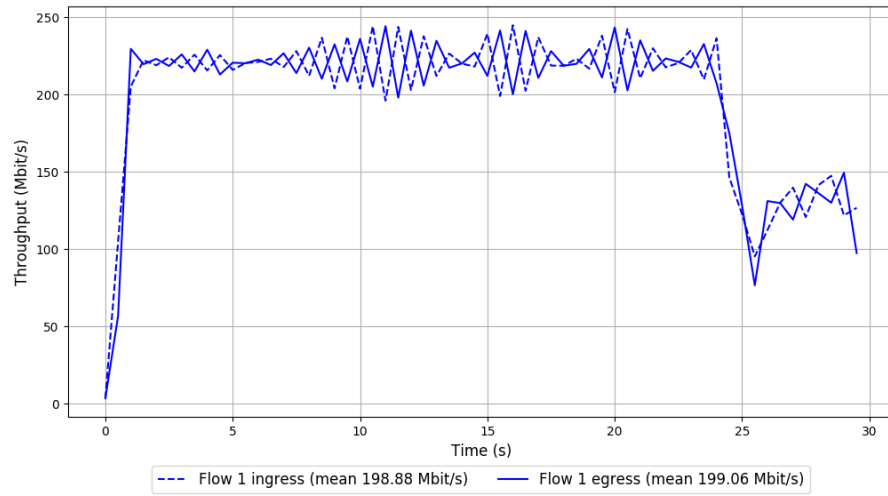
-- Flow 1:

Average throughput: 199.06 Mbit/s

95th percentile per-packet one-way delay: 61.586 ms

Loss rate: 0.25%

Run 10: Report of TCP Cubic — Data Link

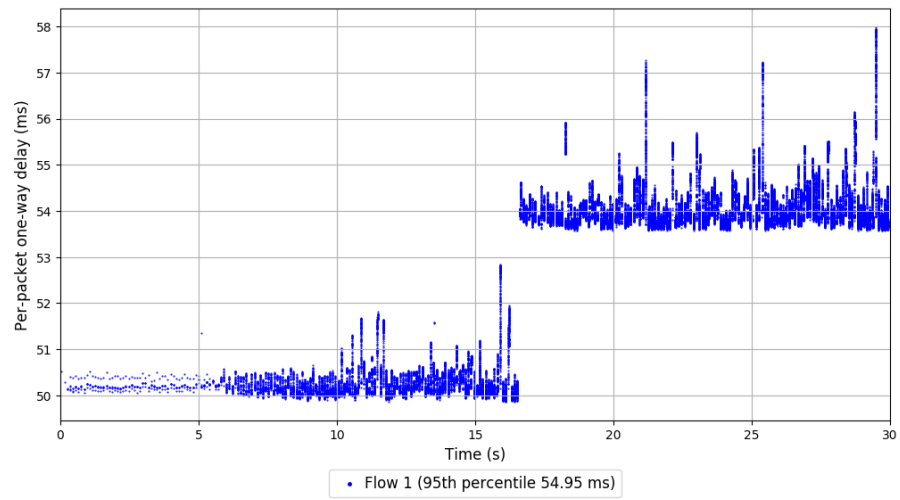
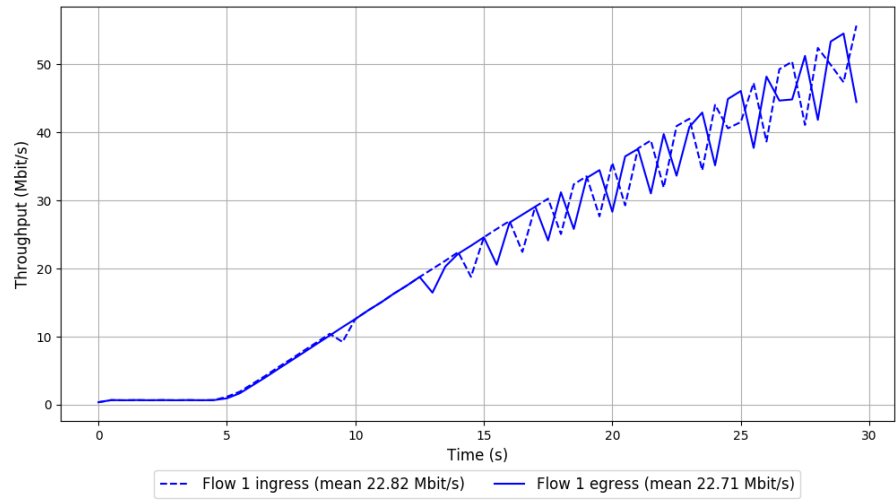


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 11:46:09
End at: 2018-04-10 11:46:39

# Below is generated by plot.py at 2018-04-10 16:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.71 Mbit/s
95th percentile per-packet one-way delay: 54.948 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 22.71 Mbit/s
95th percentile per-packet one-way delay: 54.948 ms
Loss rate: 0.82%
```

Run 1: Report of LEDBAT — Data Link

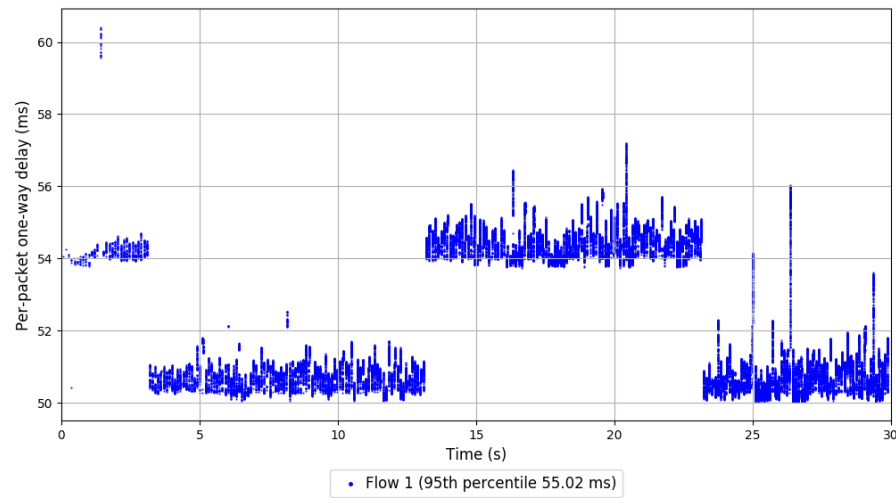
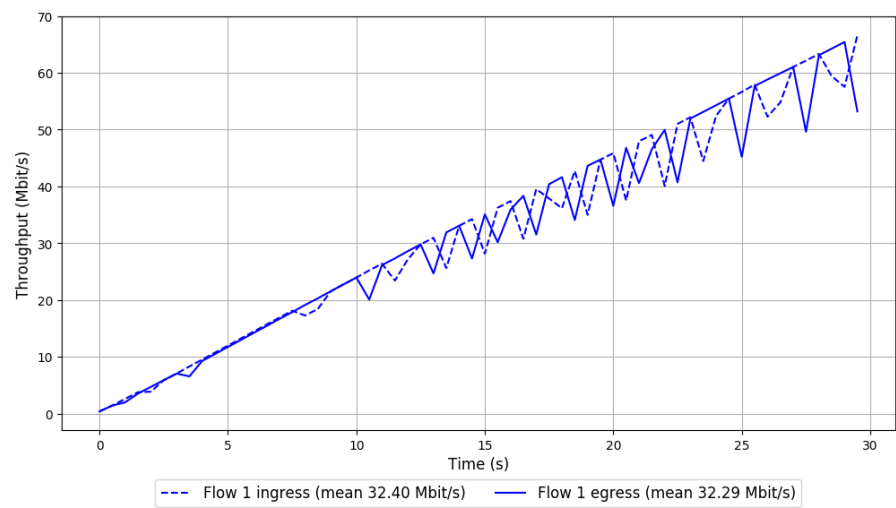


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-10 12:00:32
End at: 2018-04-10 12:01:02

# Below is generated by plot.py at 2018-04-10 16:47:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 55.017 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 32.29 Mbit/s
95th percentile per-packet one-way delay: 55.017 ms
Loss rate: 0.69%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 12:14:48

End at: 2018-04-10 12:15:18

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.69%

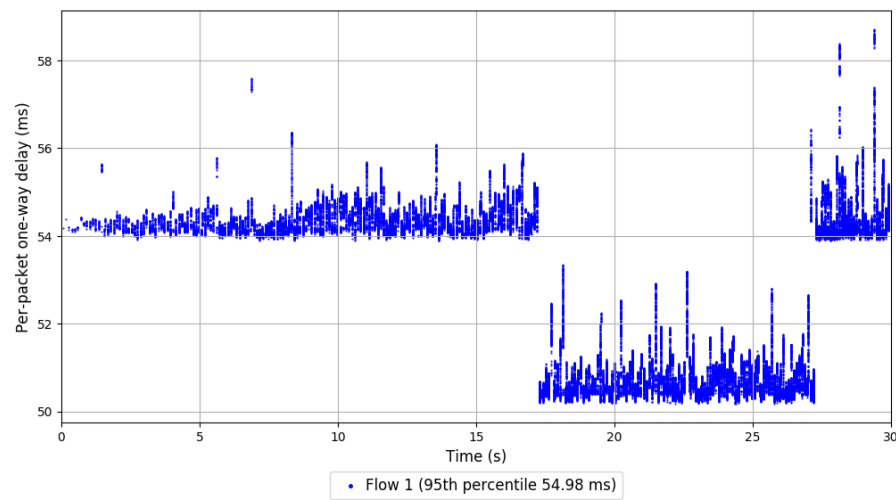
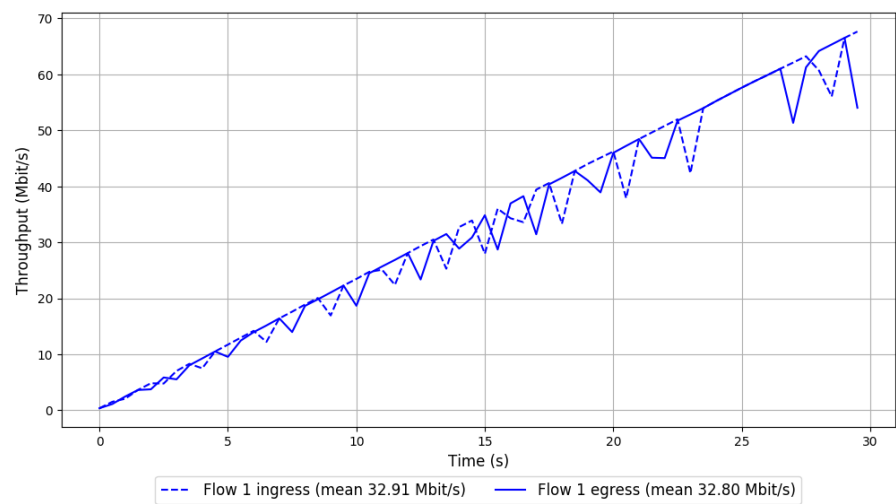
-- Flow 1:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 54.980 ms

Loss rate: 0.69%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 12:29:02

End at: 2018-04-10 12:29:32

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 55.417 ms

Loss rate: 0.72%

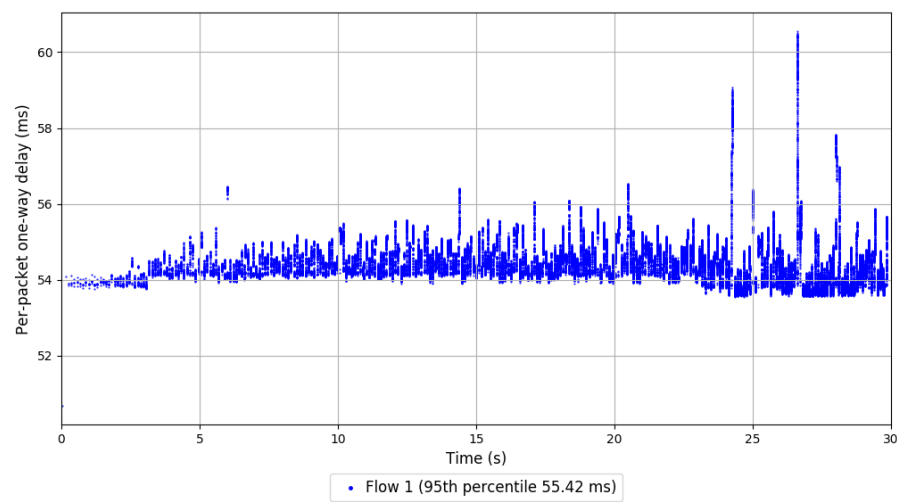
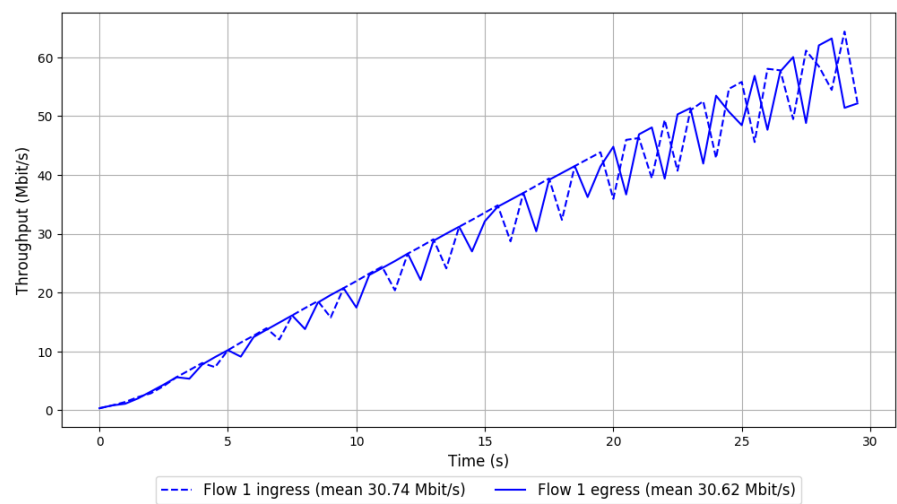
-- Flow 1:

Average throughput: 30.62 Mbit/s

95th percentile per-packet one-way delay: 55.417 ms

Loss rate: 0.72%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 12:42:54

End at: 2018-04-10 12:43:24

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 55.578 ms

Loss rate: 0.69%

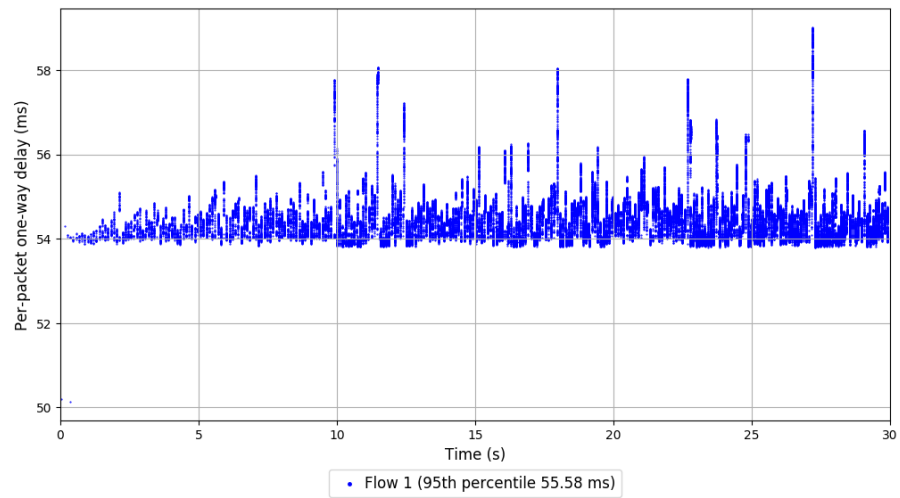
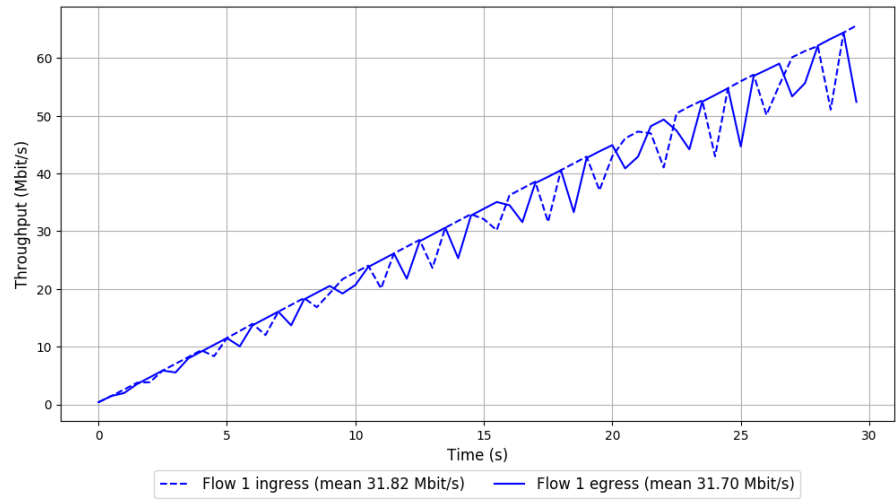
-- Flow 1:

Average throughput: 31.70 Mbit/s

95th percentile per-packet one-way delay: 55.578 ms

Loss rate: 0.69%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 12:56:52

End at: 2018-04-10 12:57:22

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 55.094 ms

Loss rate: 0.70%

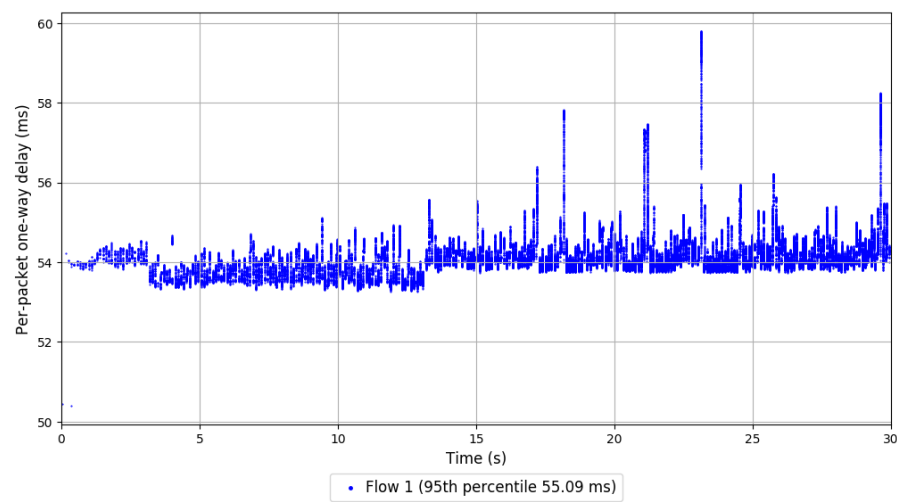
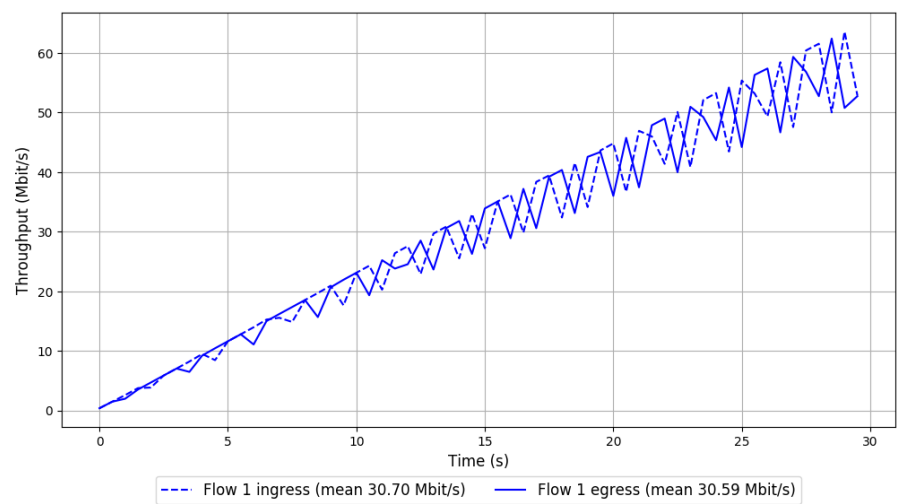
-- Flow 1:

Average throughput: 30.59 Mbit/s

95th percentile per-packet one-way delay: 55.094 ms

Loss rate: 0.70%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-10 13:10:54

End at: 2018-04-10 13:11:24

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 55.231 ms

Loss rate: 0.71%

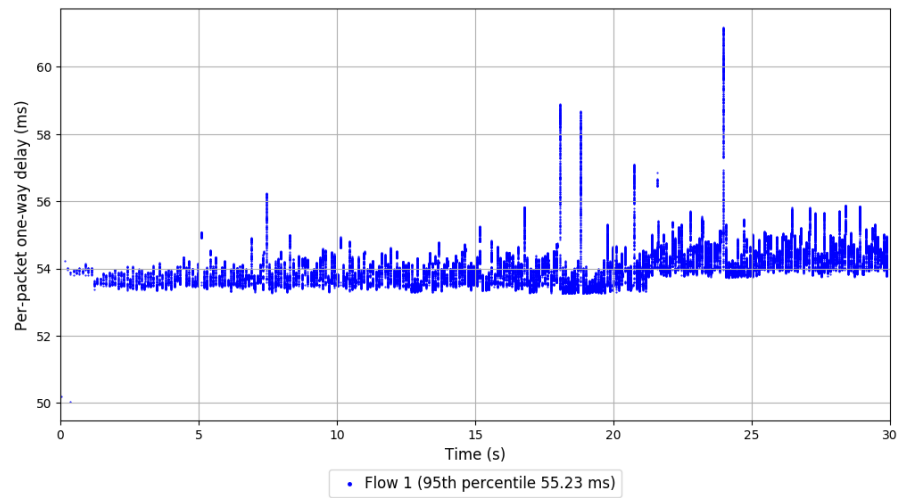
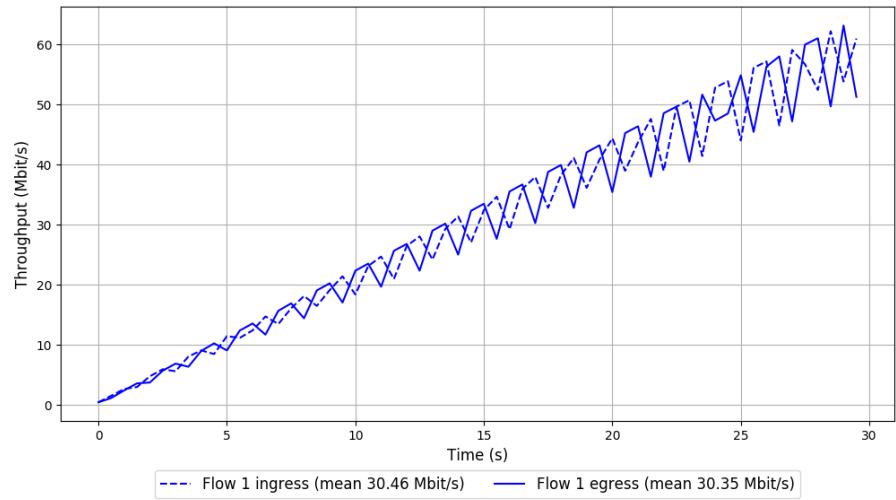
-- Flow 1:

Average throughput: 30.35 Mbit/s

95th percentile per-packet one-way delay: 55.231 ms

Loss rate: 0.71%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 13:24:58

End at: 2018-04-10 13:25:28

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 55.208 ms

Loss rate: 0.76%

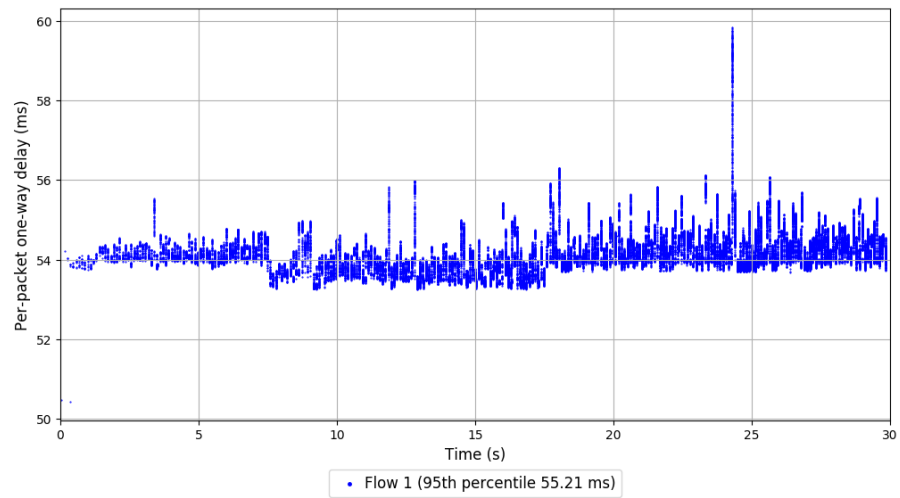
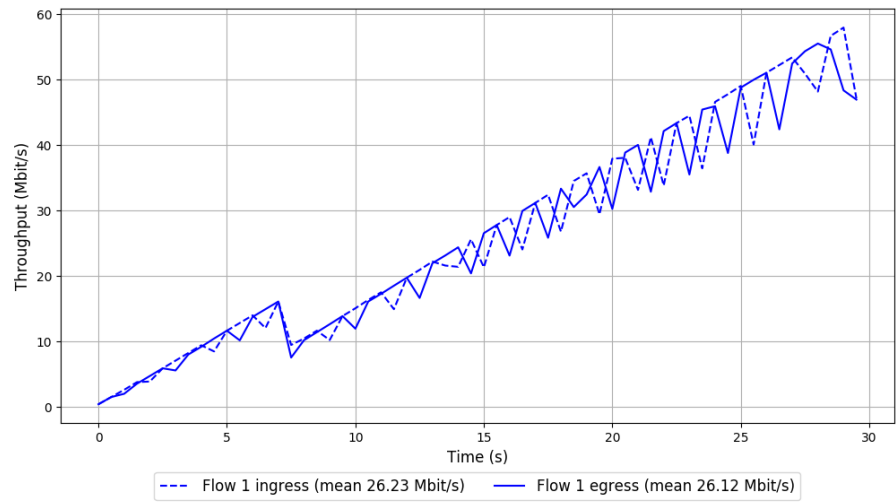
-- Flow 1:

Average throughput: 26.12 Mbit/s

95th percentile per-packet one-way delay: 55.208 ms

Loss rate: 0.76%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 13:39:11

End at: 2018-04-10 13:39:41

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 54.779 ms

Loss rate: 0.69%

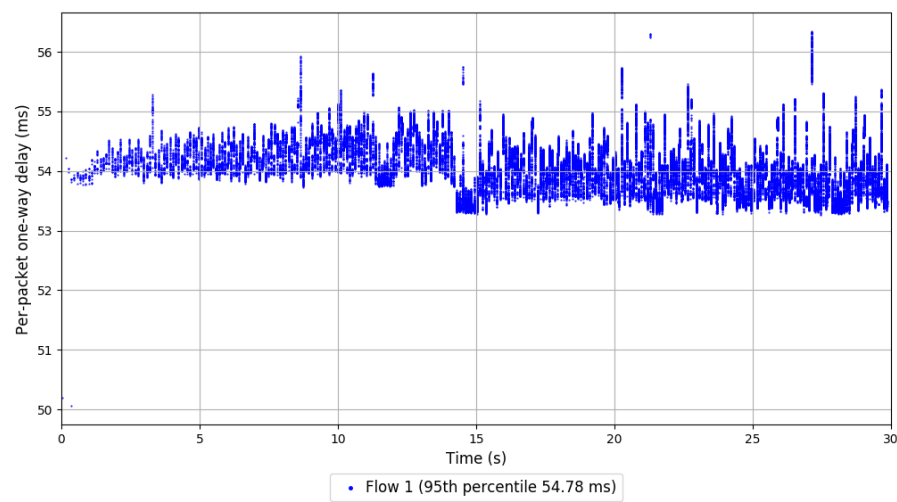
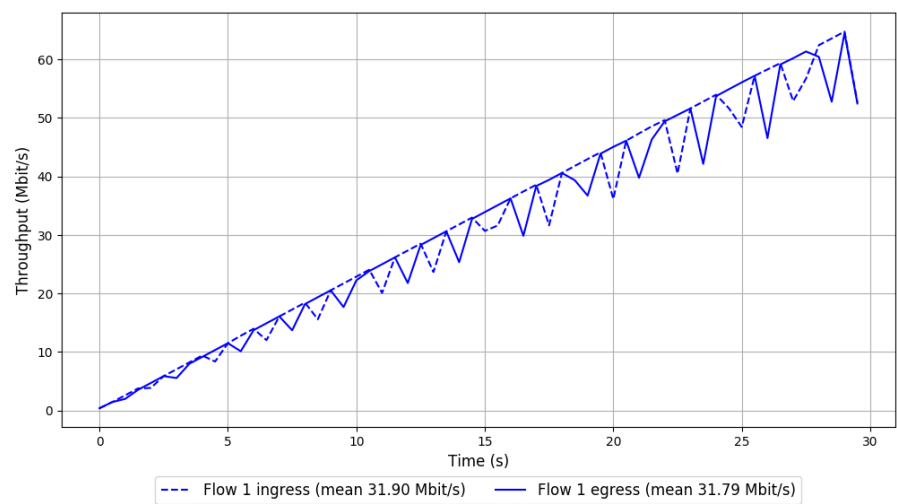
-- Flow 1:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 54.779 ms

Loss rate: 0.69%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 13:53:28

End at: 2018-04-10 13:53:58

Below is generated by plot.py at 2018-04-10 16:47:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 54.957 ms

Loss rate: 0.71%

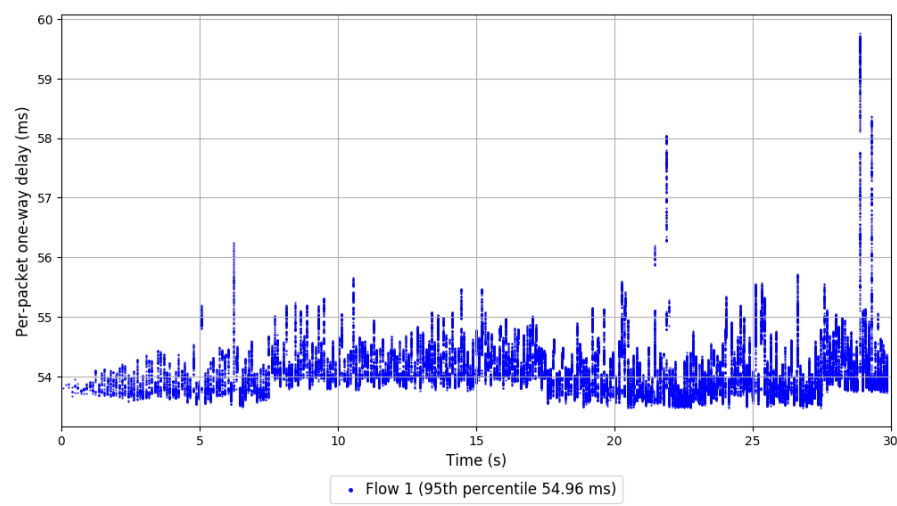
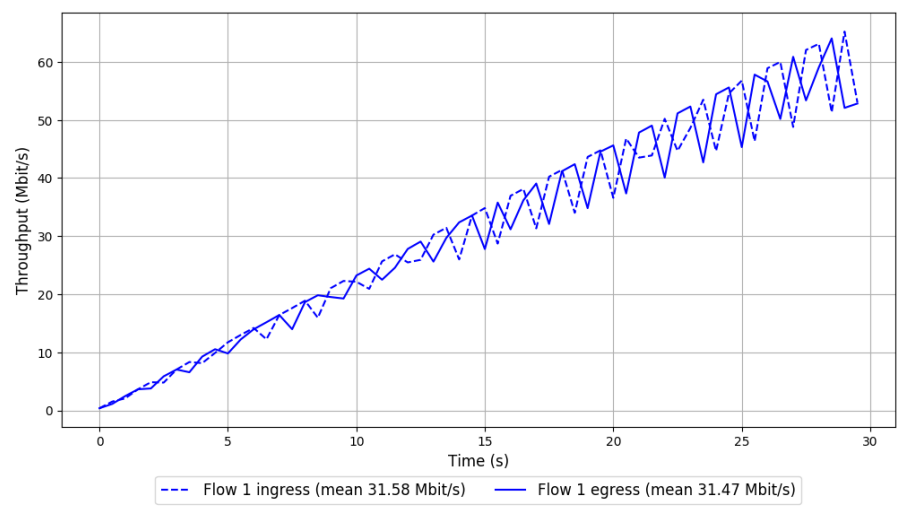
-- Flow 1:

Average throughput: 31.47 Mbit/s

95th percentile per-packet one-way delay: 54.957 ms

Loss rate: 0.71%

Run 10: Report of LEDBAT — Data Link

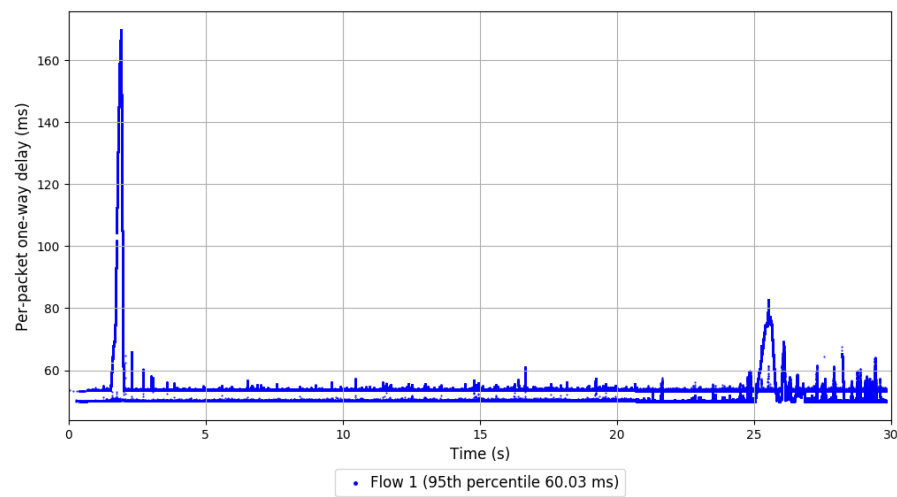
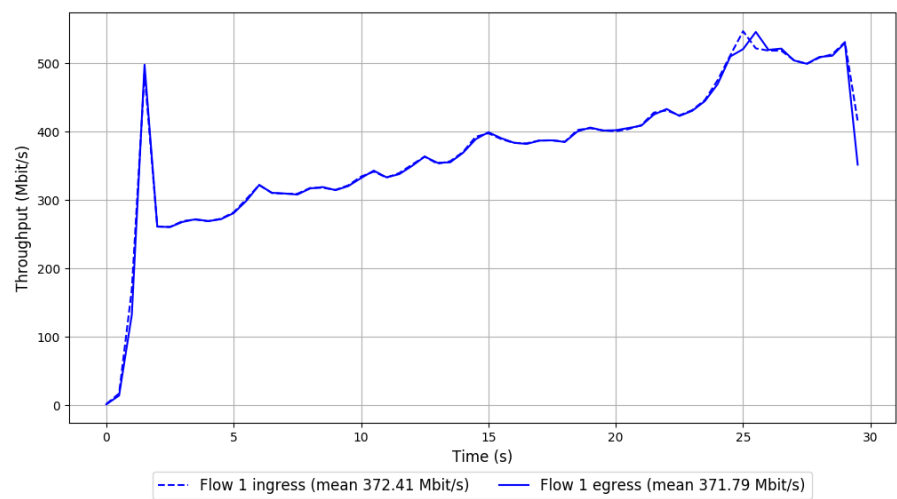


```
Run 1: Statistics of PCC

Start at: 2018-04-10 11:43:54
End at: 2018-04-10 11:44:24

# Below is generated by plot.py at 2018-04-10 16:52:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.79 Mbit/s
95th percentile per-packet one-way delay: 60.030 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 371.79 Mbit/s
95th percentile per-packet one-way delay: 60.030 ms
Loss rate: 0.53%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 11:58:13

End at: 2018-04-10 11:58:43

Below is generated by plot.py at 2018-04-10 16:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.55 Mbit/s

95th percentile per-packet one-way delay: 220.529 ms

Loss rate: 2.35%

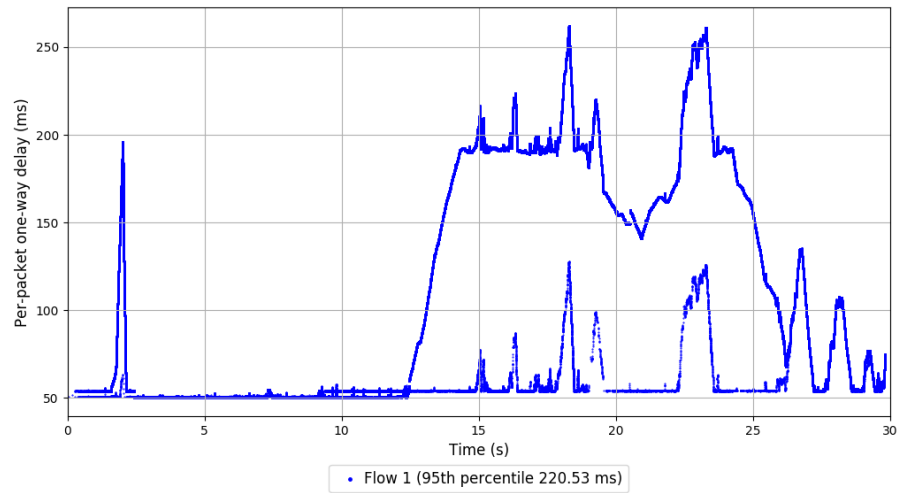
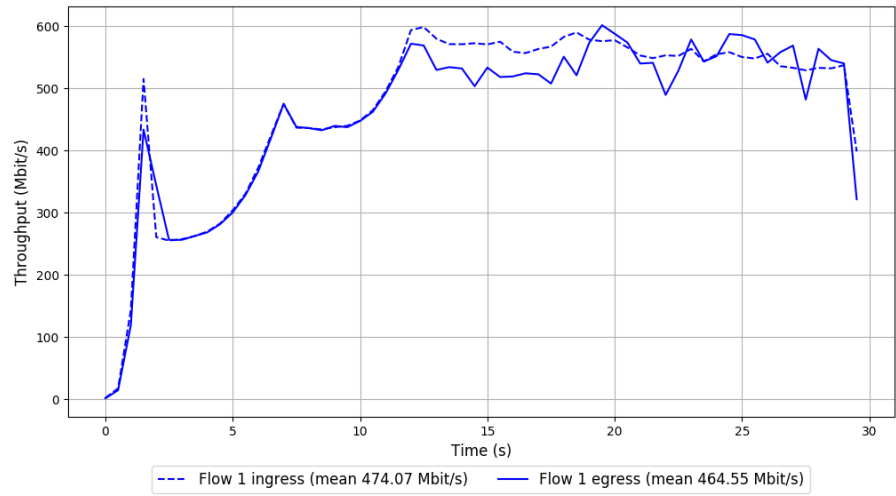
-- Flow 1:

Average throughput: 464.55 Mbit/s

95th percentile per-packet one-way delay: 220.529 ms

Loss rate: 2.35%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 12:12:35

End at: 2018-04-10 12:13:05

Below is generated by plot.py at 2018-04-10 16:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.34 Mbit/s

95th percentile per-packet one-way delay: 182.969 ms

Loss rate: 0.48%

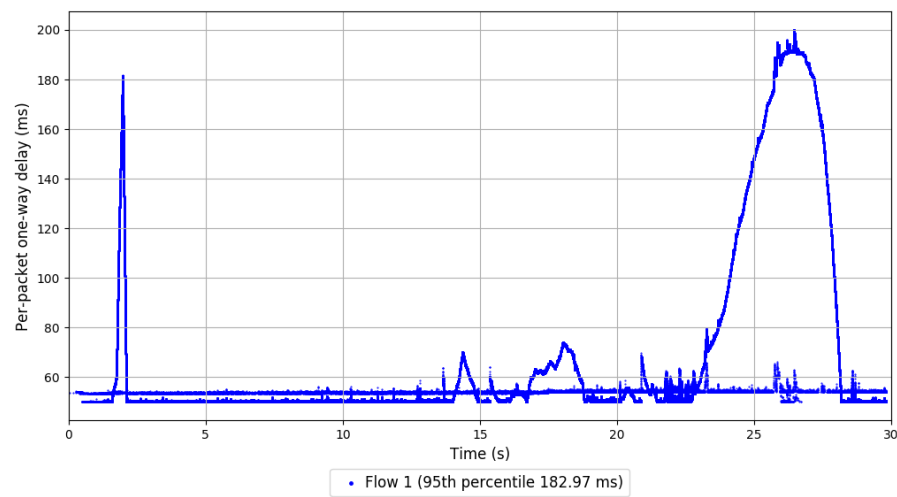
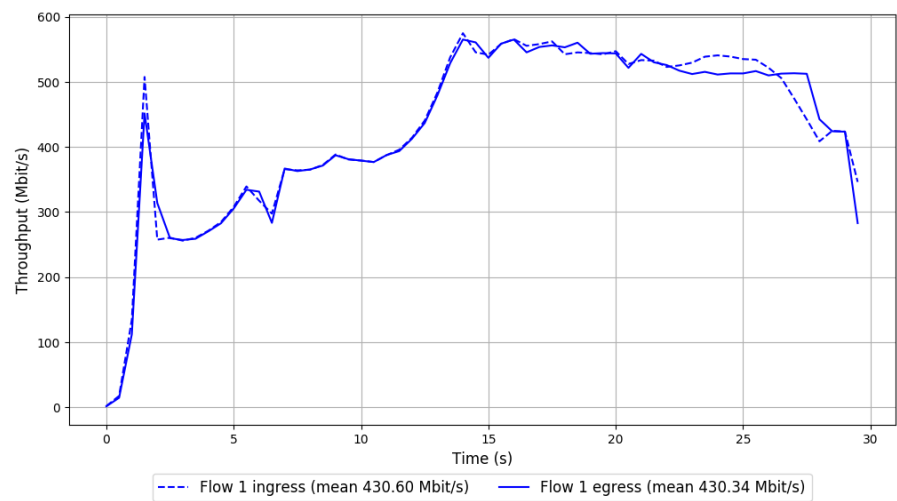
-- Flow 1:

Average throughput: 430.34 Mbit/s

95th percentile per-packet one-way delay: 182.969 ms

Loss rate: 0.48%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 12:26:48

End at: 2018-04-10 12:27:18

Below is generated by plot.py at 2018-04-10 16:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.66 Mbit/s

95th percentile per-packet one-way delay: 138.231 ms

Loss rate: 0.41%

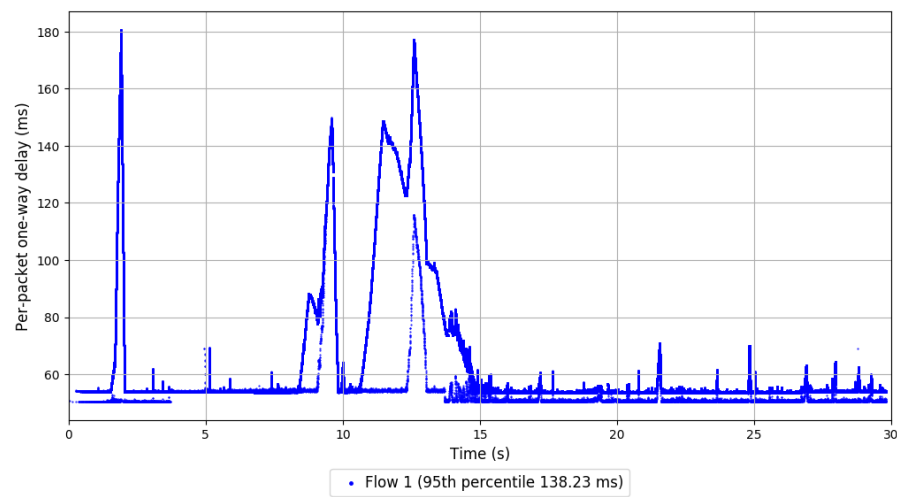
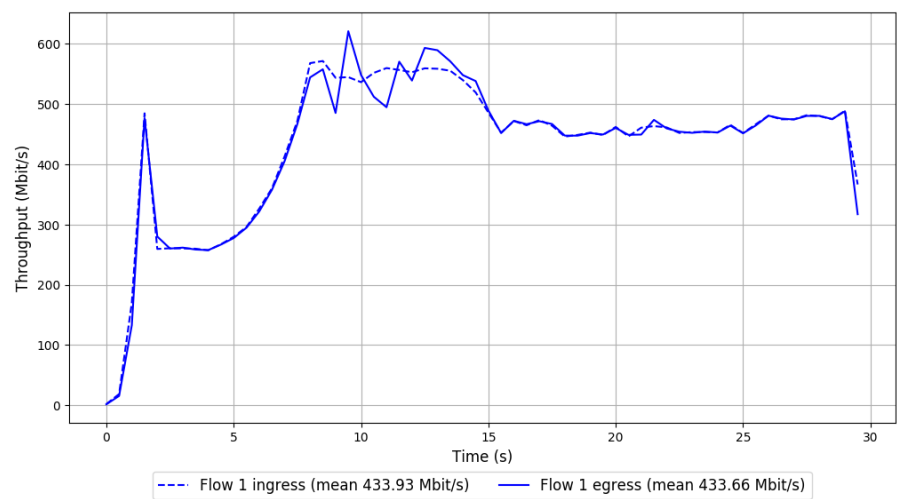
-- Flow 1:

Average throughput: 433.66 Mbit/s

95th percentile per-packet one-way delay: 138.231 ms

Loss rate: 0.41%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 12:40:40

End at: 2018-04-10 12:41:10

Below is generated by plot.py at 2018-04-10 16:54:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.55 Mbit/s

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

Loss rate: 0.91%

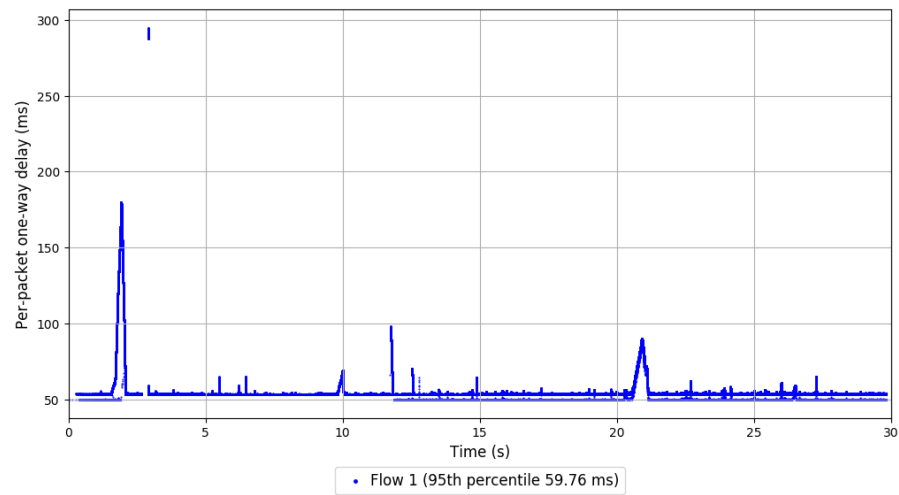
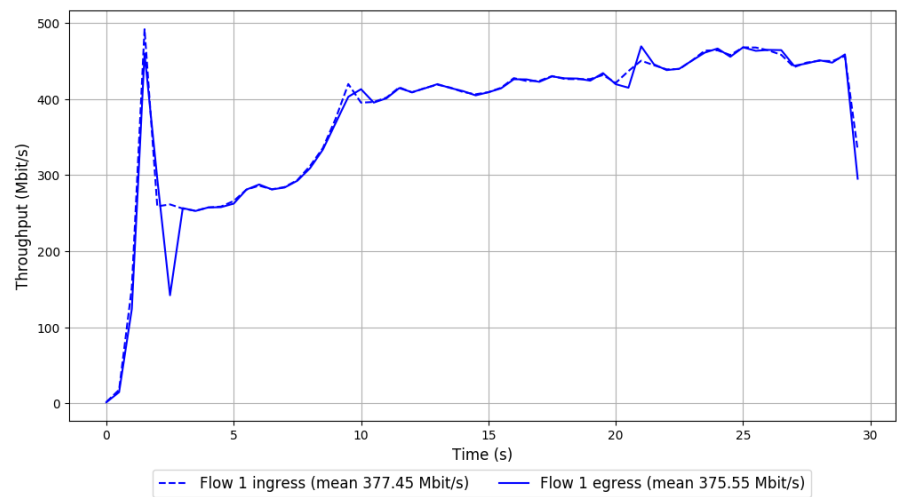
-- Flow 1:

Average throughput: 375.55 Mbit/s

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

Loss rate: 0.91%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 12:54:34

End at: 2018-04-10 12:55:04

Below is generated by plot.py at 2018-04-10 16:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.83 Mbit/s

95th percentile per-packet one-way delay: 185.999 ms

Loss rate: 1.03%

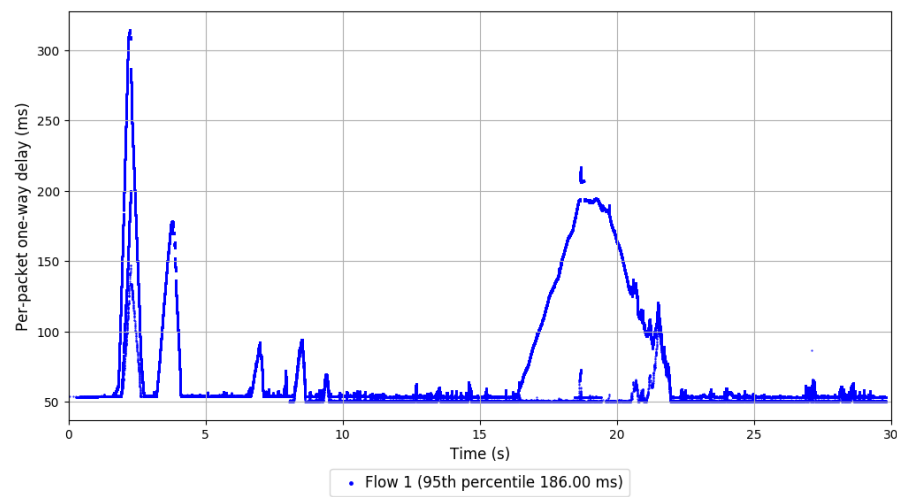
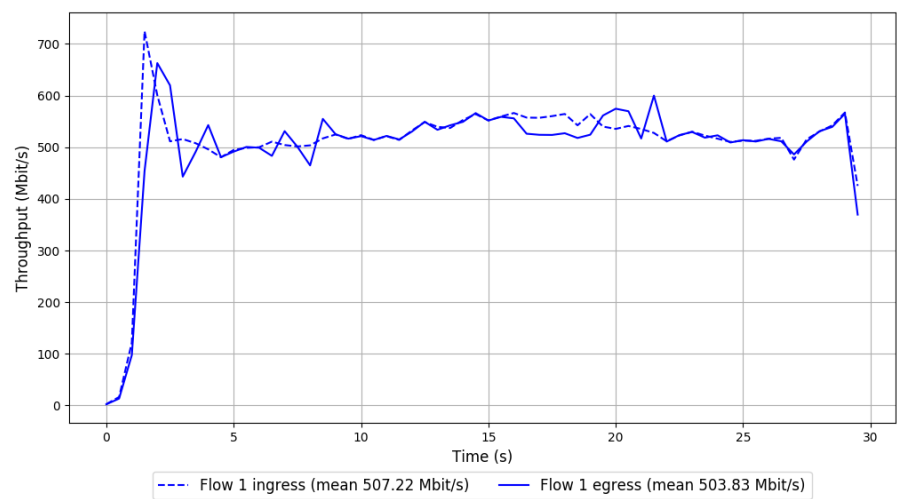
-- Flow 1:

Average throughput: 503.83 Mbit/s

95th percentile per-packet one-way delay: 185.999 ms

Loss rate: 1.03%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-10 13:08:38

End at: 2018-04-10 13:09:08

Below is generated by plot.py at 2018-04-10 16:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.09 Mbit/s

95th percentile per-packet one-way delay: 168.288 ms

Loss rate: 1.10%

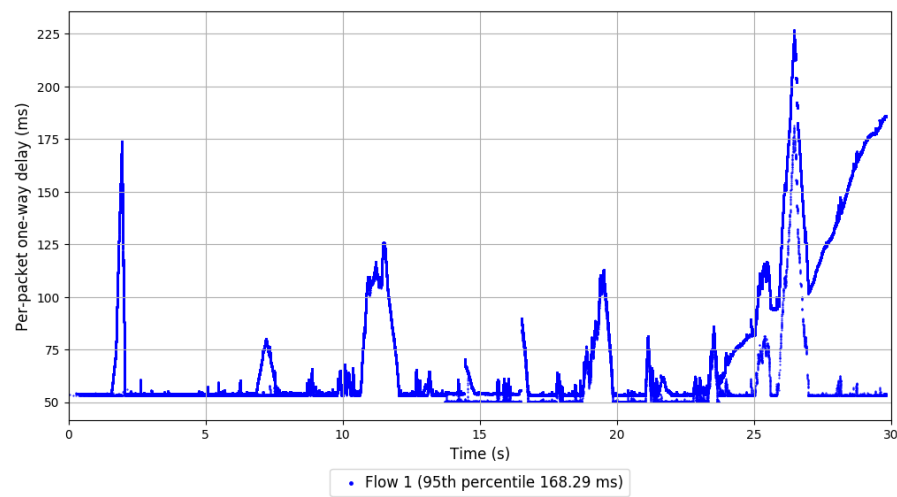
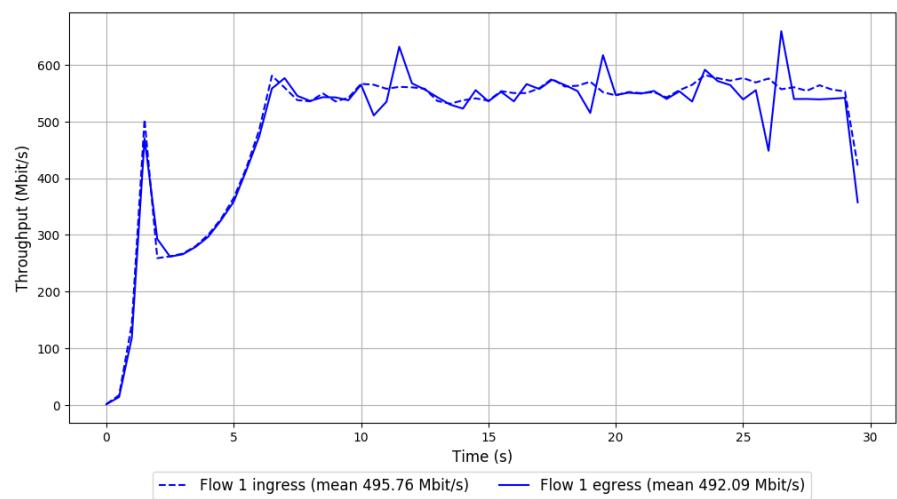
-- Flow 1:

Average throughput: 492.09 Mbit/s

95th percentile per-packet one-way delay: 168.288 ms

Loss rate: 1.10%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 13:22:39

End at: 2018-04-10 13:23:09

Below is generated by plot.py at 2018-04-10 16:56:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.33 Mbit/s

95th percentile per-packet one-way delay: 200.749 ms

Loss rate: 1.74%

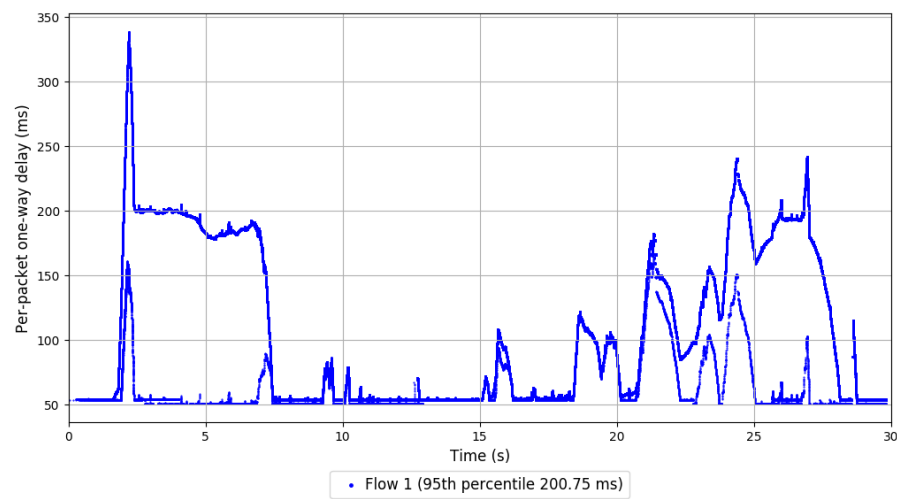
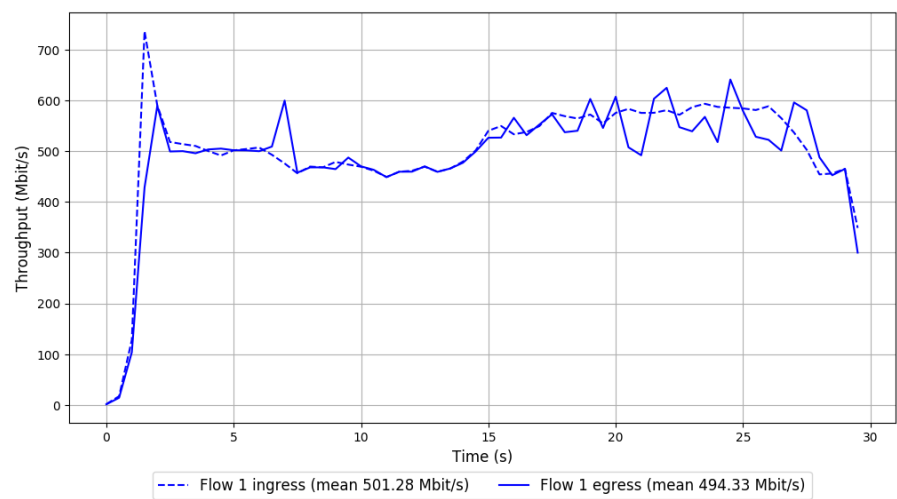
-- Flow 1:

Average throughput: 494.33 Mbit/s

95th percentile per-packet one-way delay: 200.749 ms

Loss rate: 1.74%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 13:36:52

End at: 2018-04-10 13:37:22

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.89 Mbit/s

95th percentile per-packet one-way delay: 190.629 ms

Loss rate: 1.92%

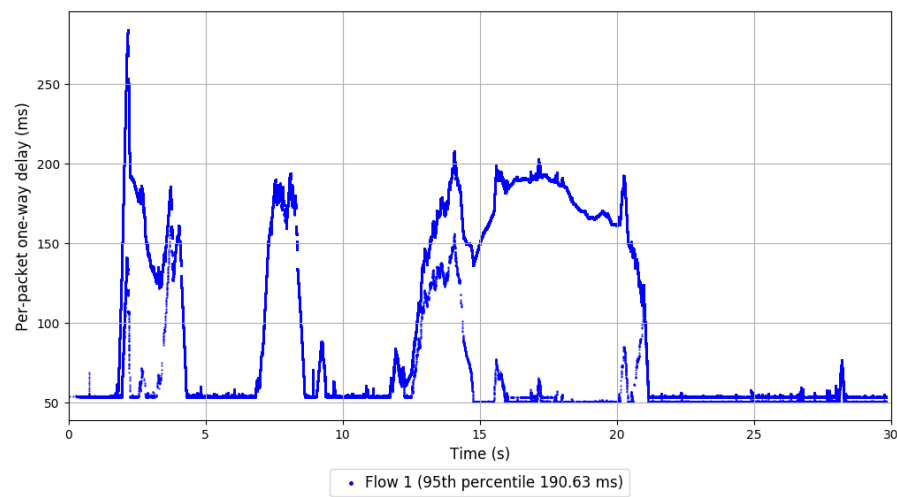
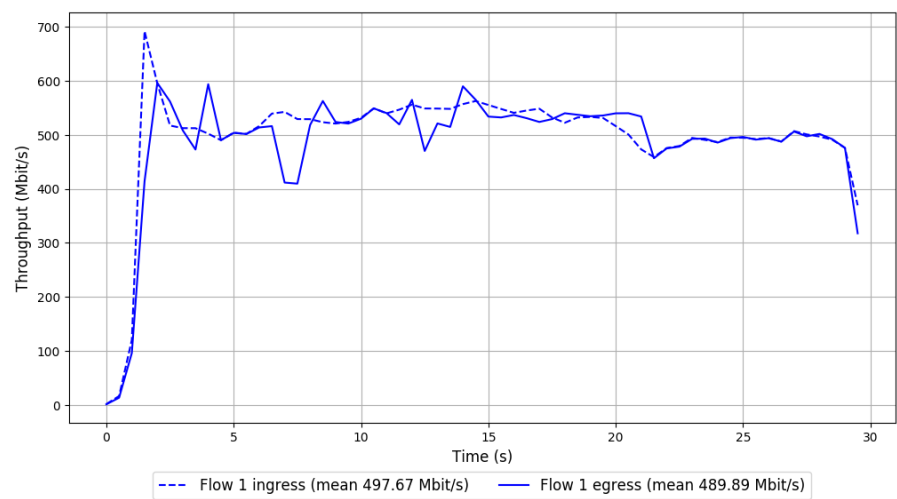
-- Flow 1:

Average throughput: 489.89 Mbit/s

95th percentile per-packet one-way delay: 190.629 ms

Loss rate: 1.92%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 13:51:12

End at: 2018-04-10 13:51:42

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.40 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.41%

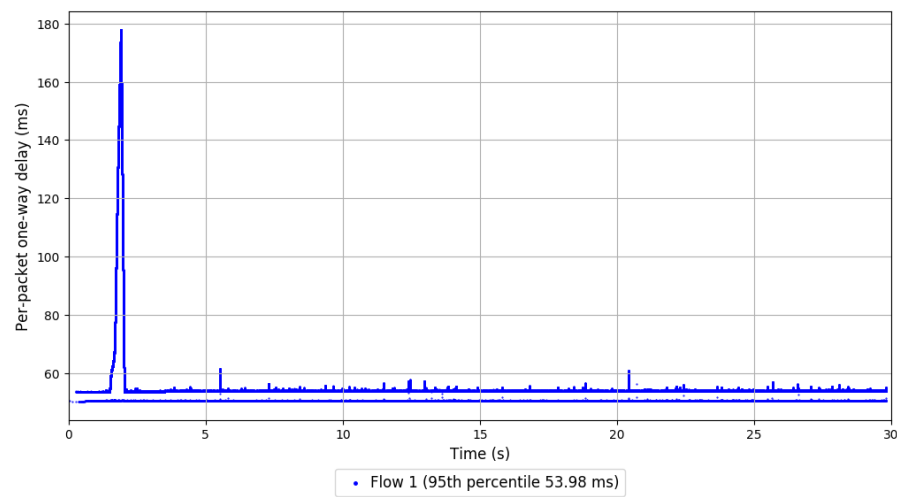
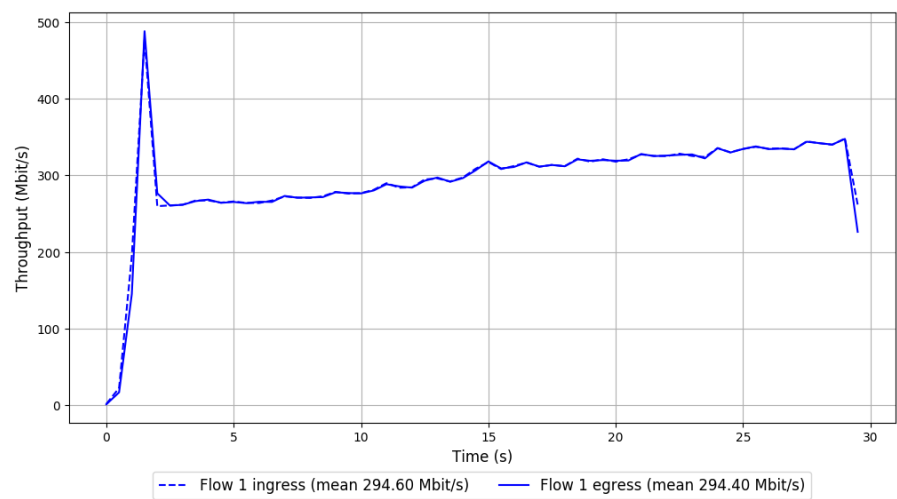
-- Flow 1:

Average throughput: 294.40 Mbit/s

95th percentile per-packet one-way delay: 53.980 ms

Loss rate: 0.41%

Run 10: Report of PCC — Data Link

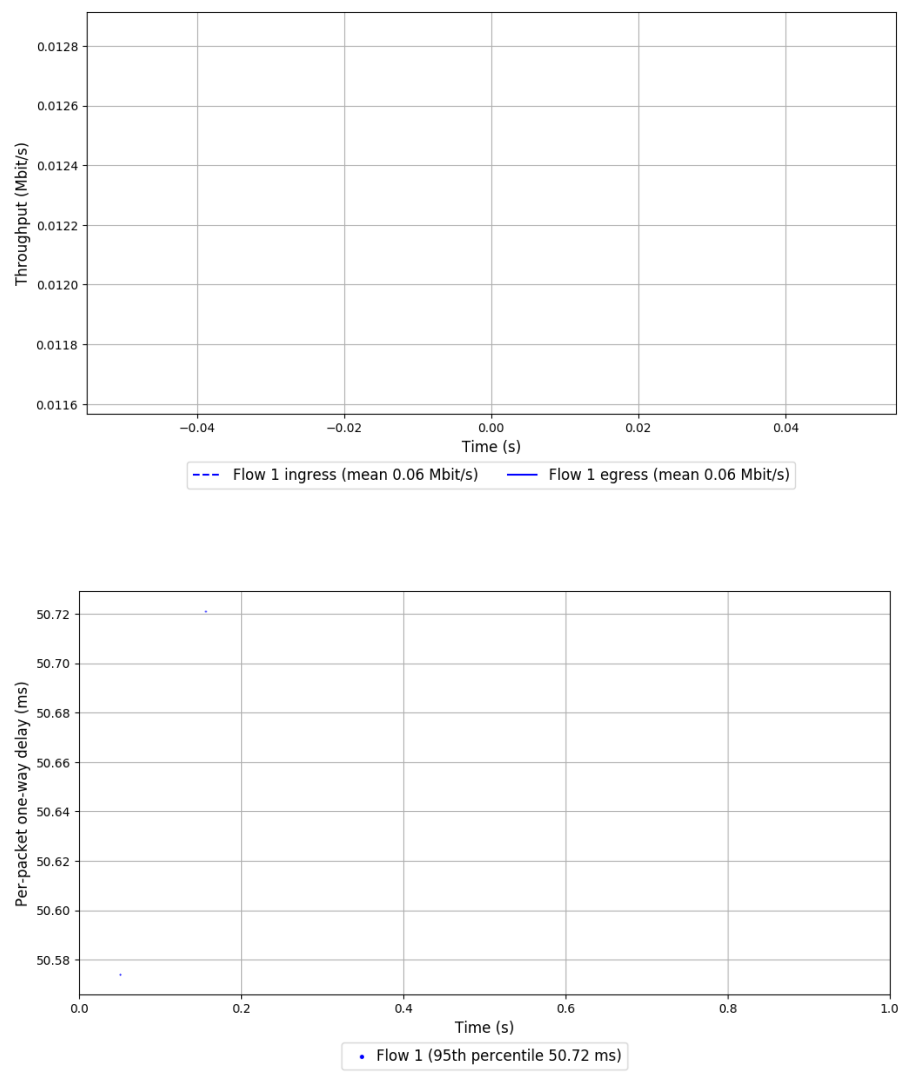


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-10 11:43:18

End at: 2018-04-10 11:43:48

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 11:57:32

End at: 2018-04-10 11:58:03

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 53.391 ms

Loss rate: 0.50%

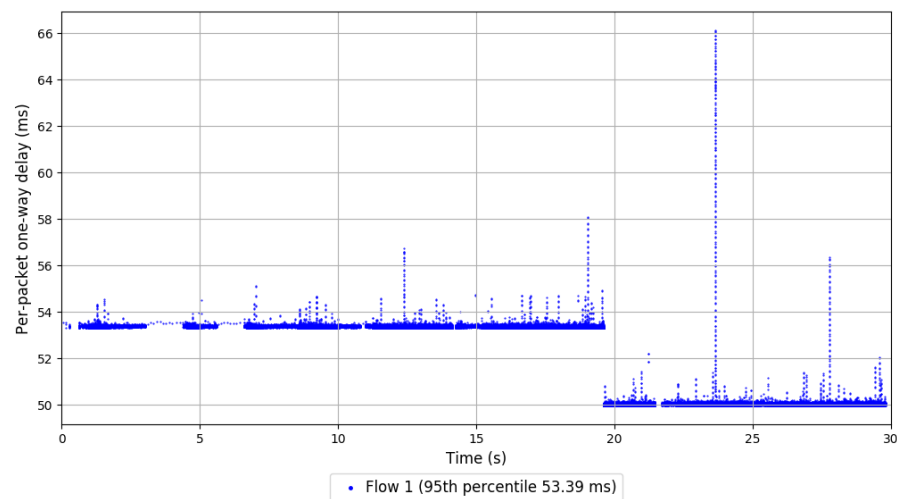
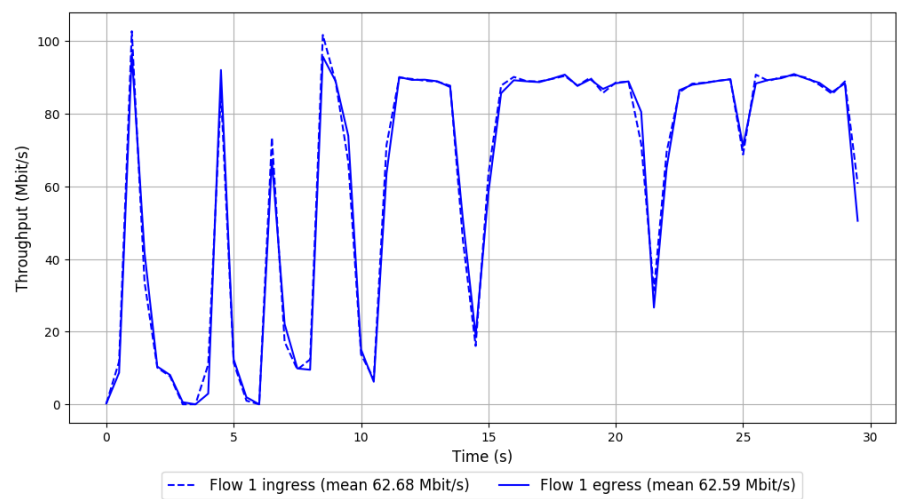
-- Flow 1:

Average throughput: 62.59 Mbit/s

95th percentile per-packet one-way delay: 53.391 ms

Loss rate: 0.50%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 12:11:55

End at: 2018-04-10 12:12:25

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 50.257 ms

Loss rate: 0.54%

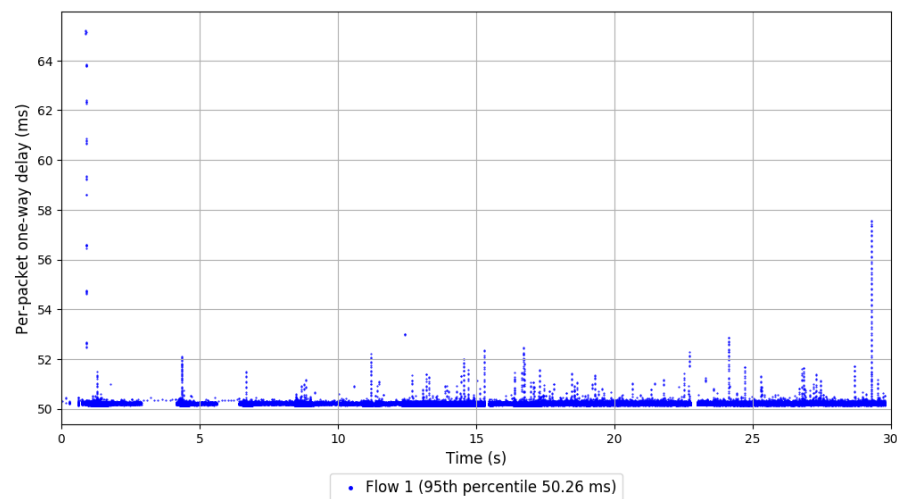
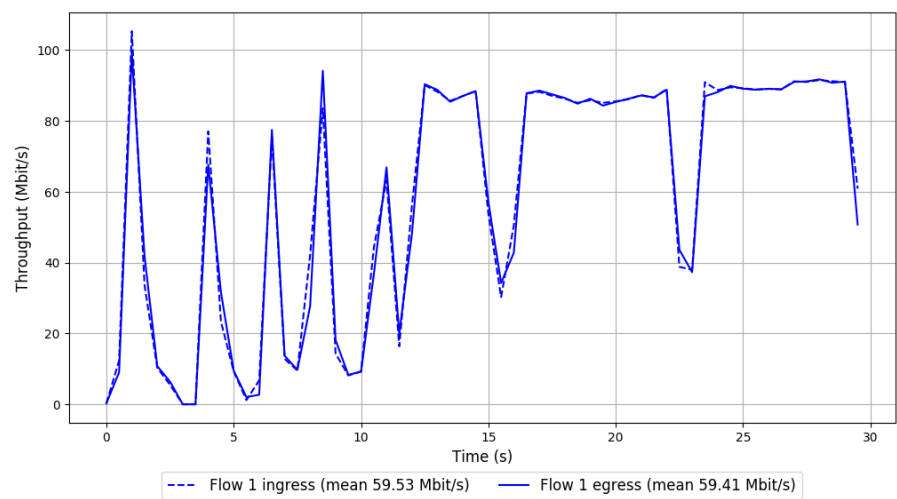
-- Flow 1:

Average throughput: 59.41 Mbit/s

95th percentile per-packet one-way delay: 50.257 ms

Loss rate: 0.54%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 12:26:09

End at: 2018-04-10 12:26:39

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.56%

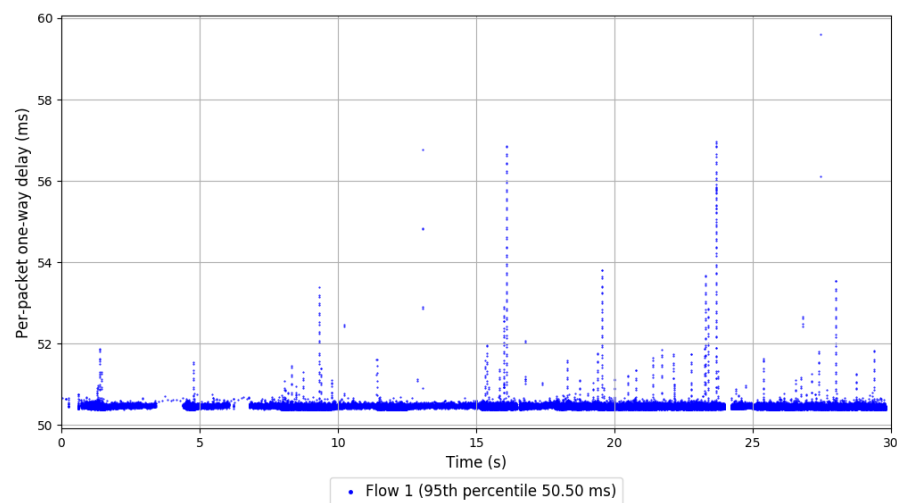
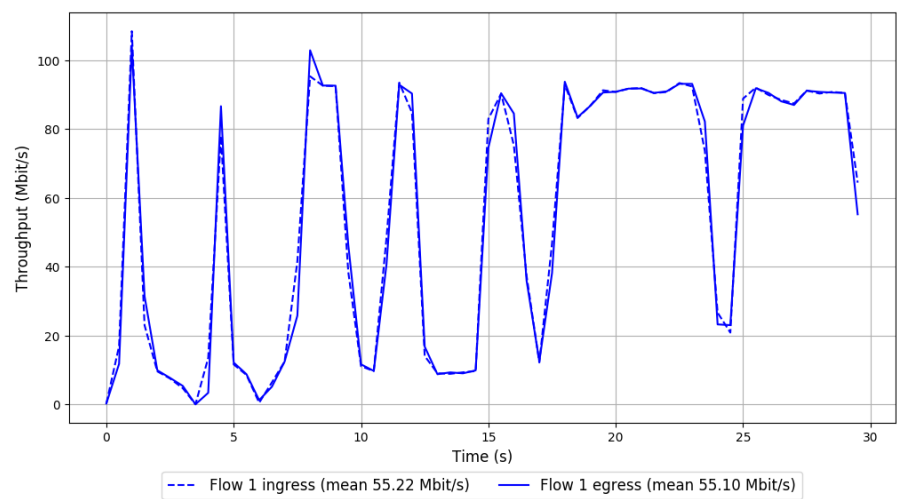
-- Flow 1:

Average throughput: 55.10 Mbit/s

95th percentile per-packet one-way delay: 50.503 ms

Loss rate: 0.56%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 12:40:00

End at: 2018-04-10 12:40:30

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 50.055 ms

Loss rate: 0.52%

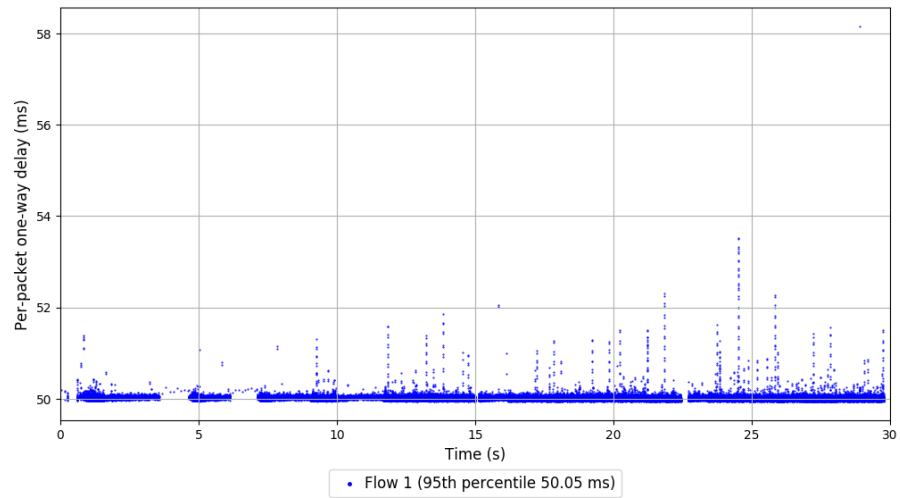
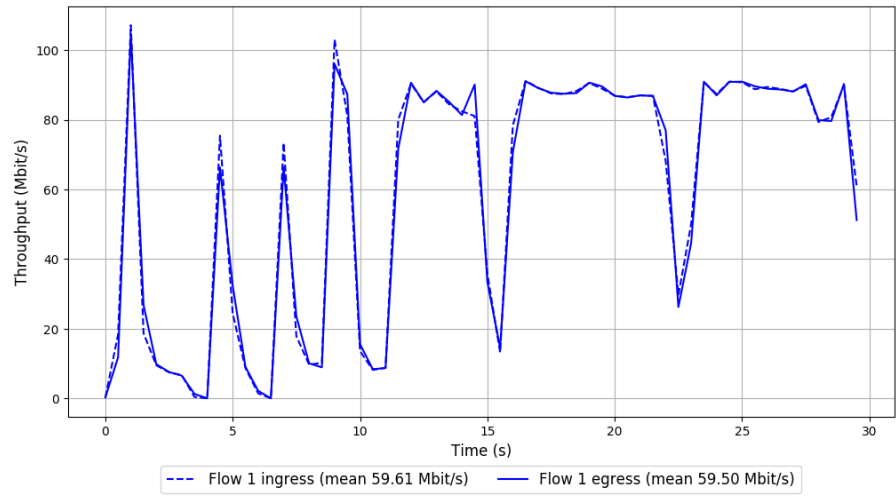
-- Flow 1:

Average throughput: 59.50 Mbit/s

95th percentile per-packet one-way delay: 50.055 ms

Loss rate: 0.52%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 12:53:54

End at: 2018-04-10 12:54:24

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 53.498 ms

Loss rate: 0.53%

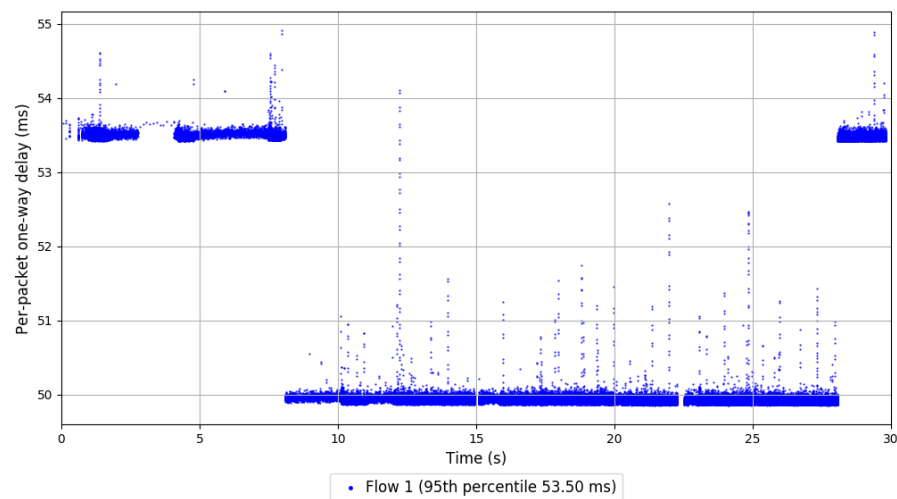
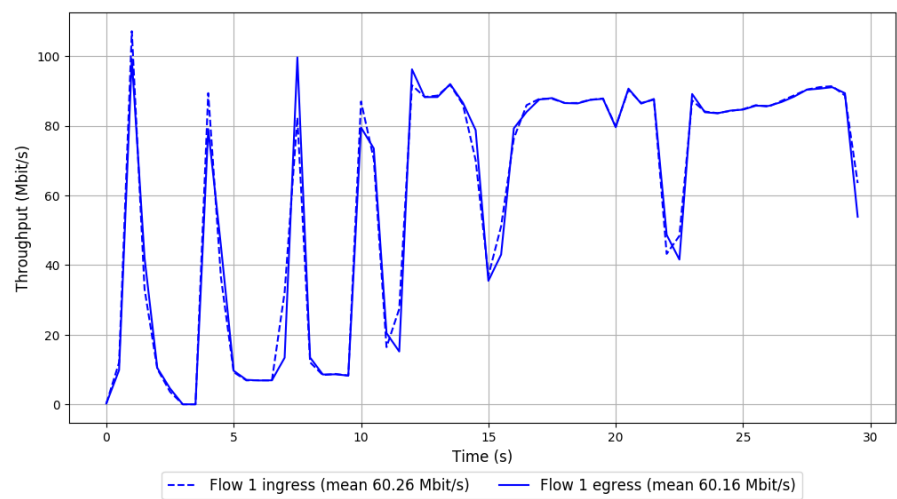
-- Flow 1:

Average throughput: 60.16 Mbit/s

95th percentile per-packet one-way delay: 53.498 ms

Loss rate: 0.53%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 13:07:58

End at: 2018-04-10 13:08:29

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.54%

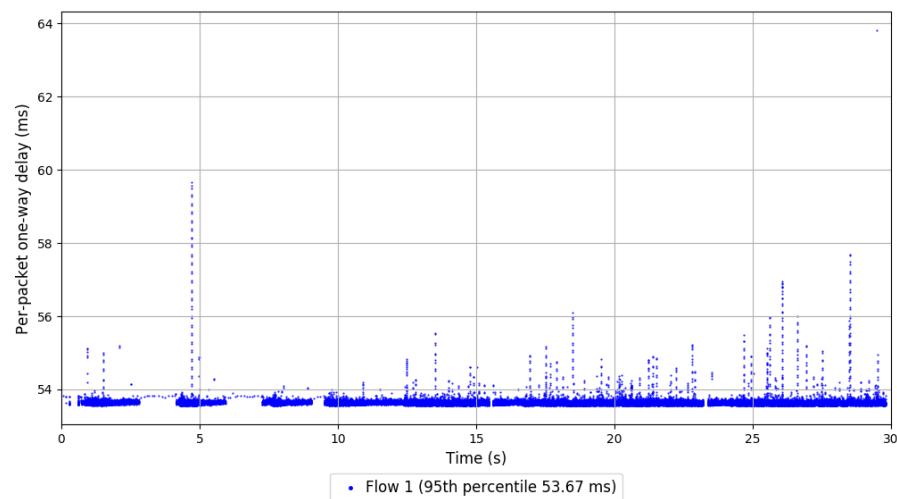
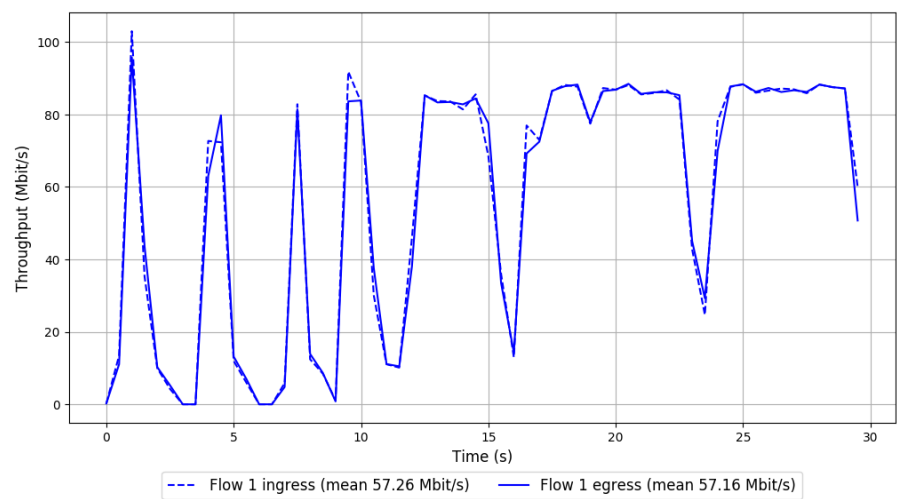
-- Flow 1:

Average throughput: 57.16 Mbit/s

95th percentile per-packet one-way delay: 53.667 ms

Loss rate: 0.54%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 13:21:59

End at: 2018-04-10 13:22:29

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.78 Mbit/s

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

Loss rate: 0.49%

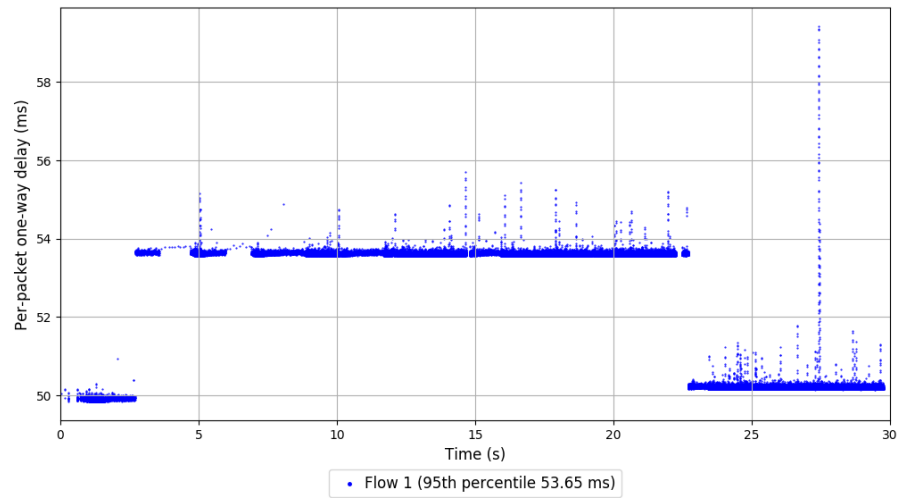
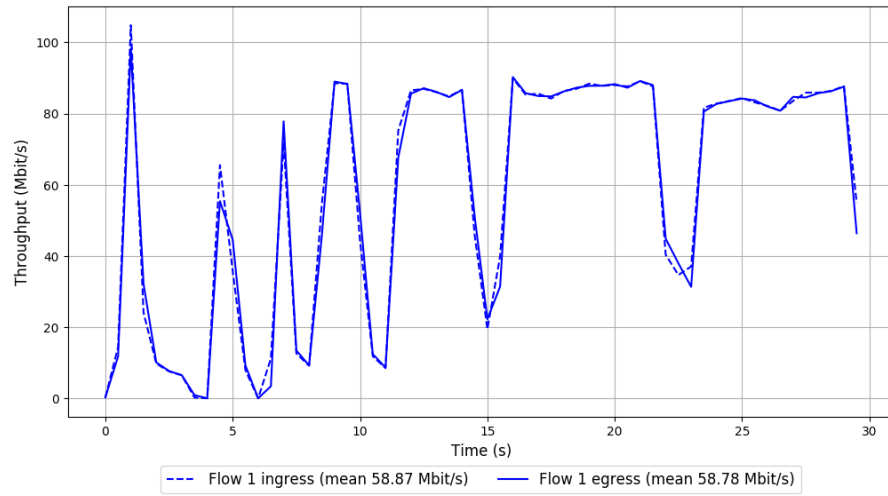
-- Flow 1:

Average throughput: 58.78 Mbit/s

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

Loss rate: 0.49%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 13:36:13

End at: 2018-04-10 13:36:43

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.86 Mbit/s

95th percentile per-packet one-way delay: 50.287 ms

Loss rate: 0.72%

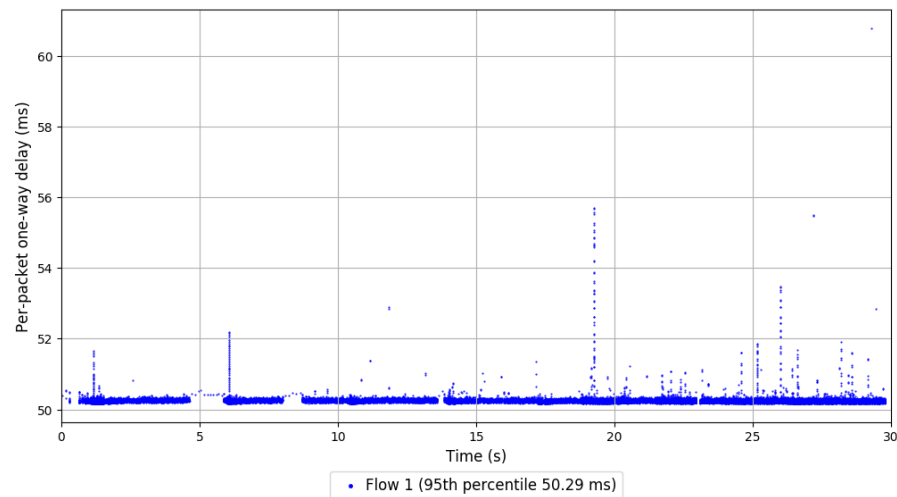
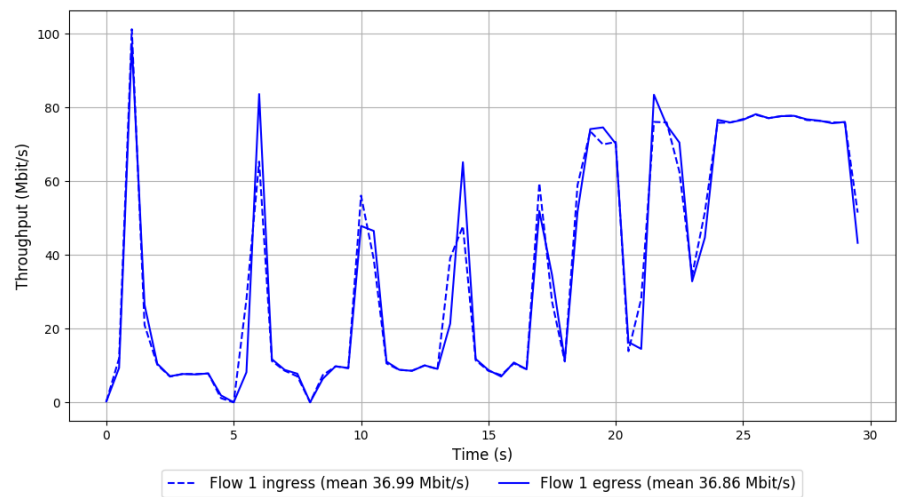
-- Flow 1:

Average throughput: 36.86 Mbit/s

95th percentile per-packet one-way delay: 50.287 ms

Loss rate: 0.72%

Run 9: Report of QUIC Cubic — Data Link

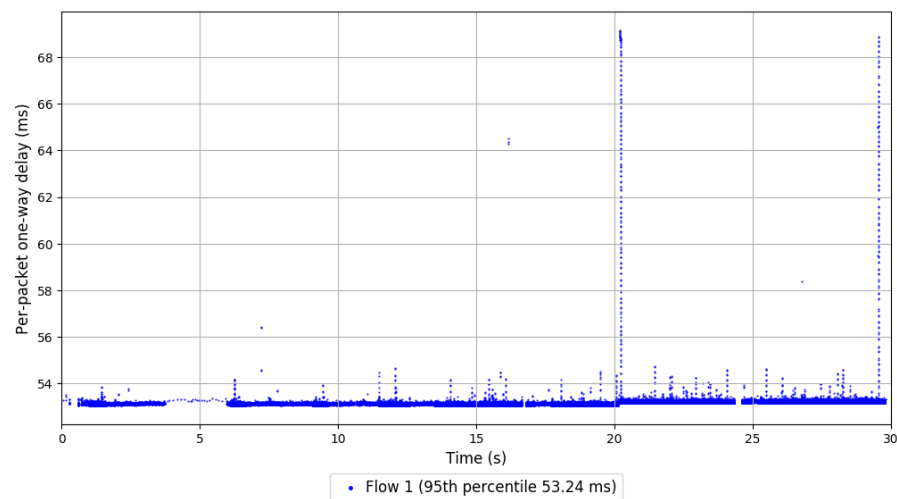
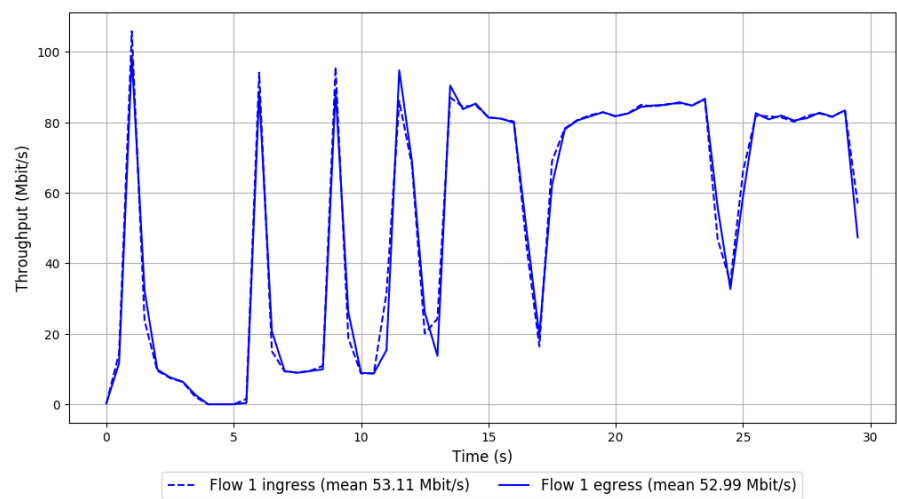


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 13:50:32
End at: 2018-04-10 13:51:02

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 53.244 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 52.99 Mbit/s
95th percentile per-packet one-way delay: 53.244 ms
Loss rate: 0.58%
```

Run 10: Report of QUIC Cubic — Data Link

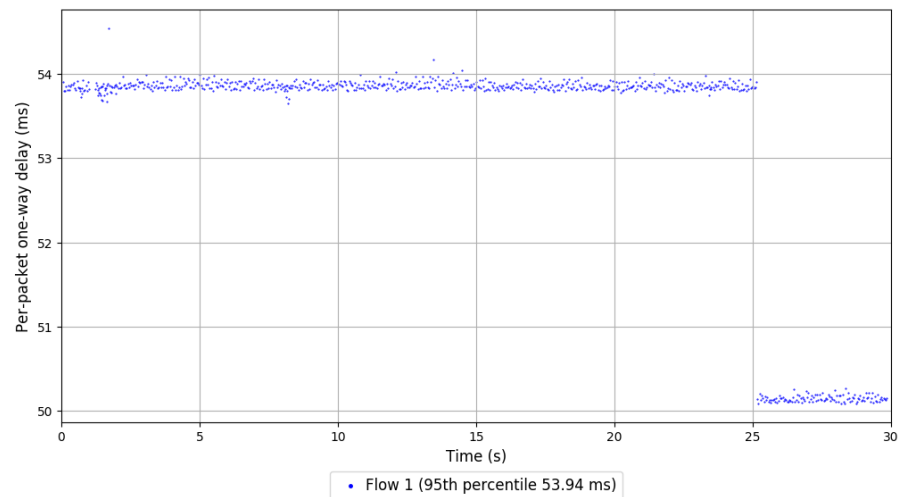
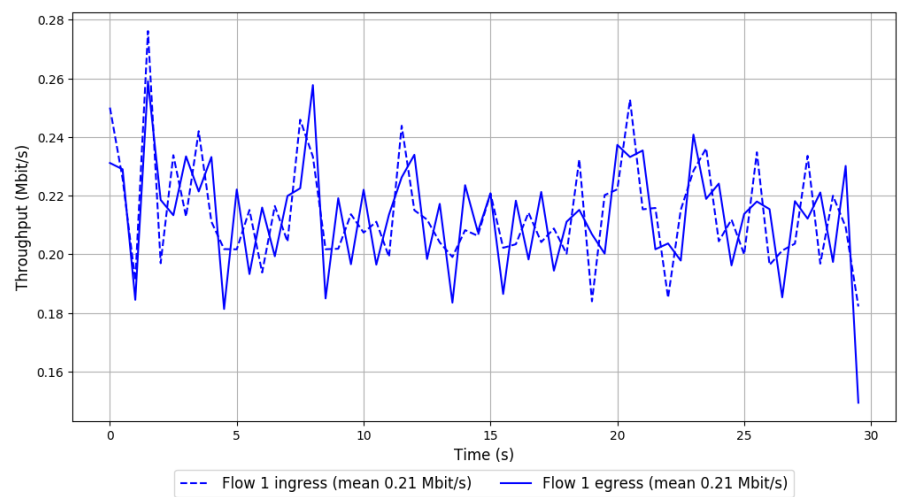


```
Run 1: Statistics of SCReAM

Start at: 2018-04-10 11:46:47
End at: 2018-04-10 11:47:17

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.941 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

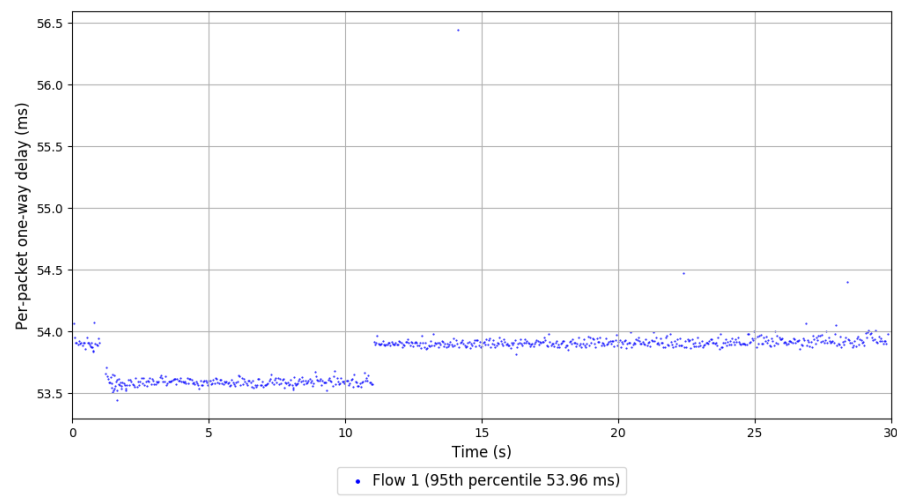
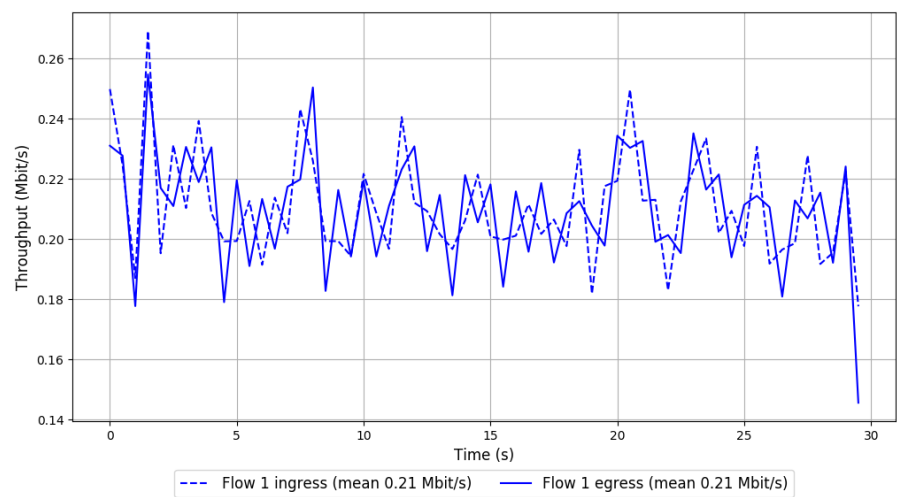


```
Run 2: Statistics of SCReAM

Start at: 2018-04-10 12:01:11
End at: 2018-04-10 12:01:41

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.956 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.956 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 12:15:27

End at: 2018-04-10 12:15:57

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.632 ms

Loss rate: 0.38%

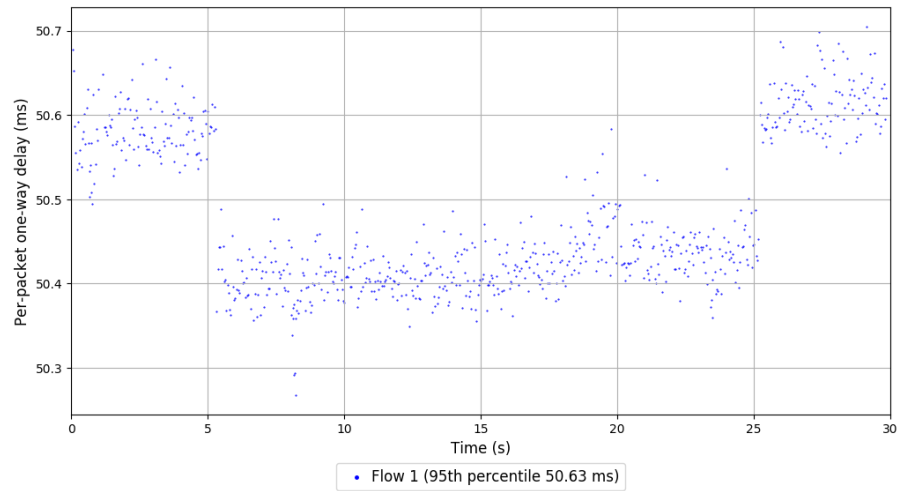
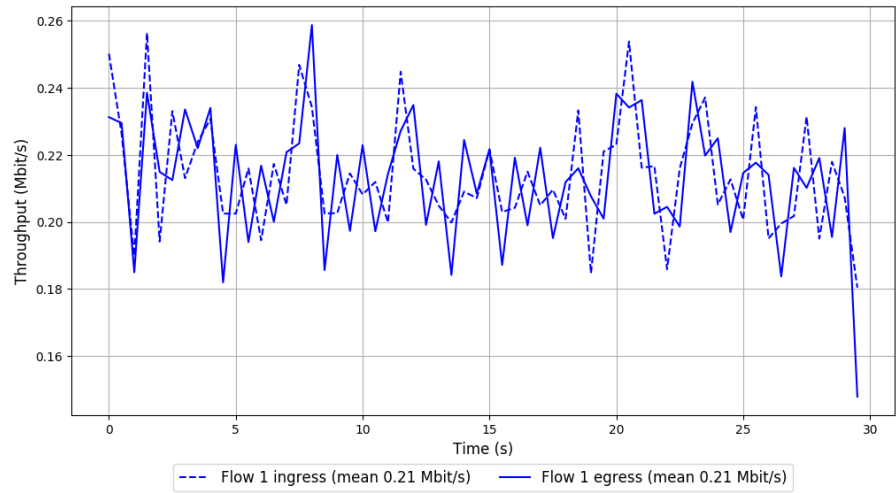
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.632 ms

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-10 12:29:41

End at: 2018-04-10 12:30:11

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

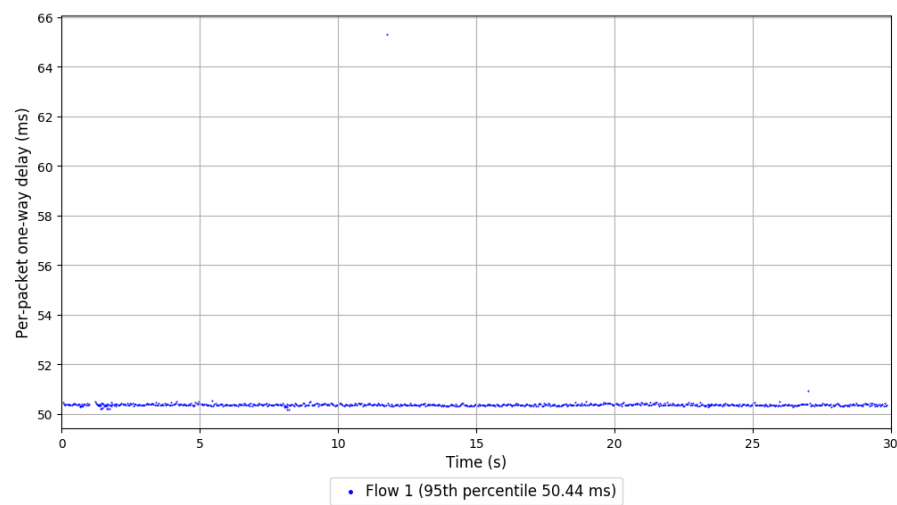
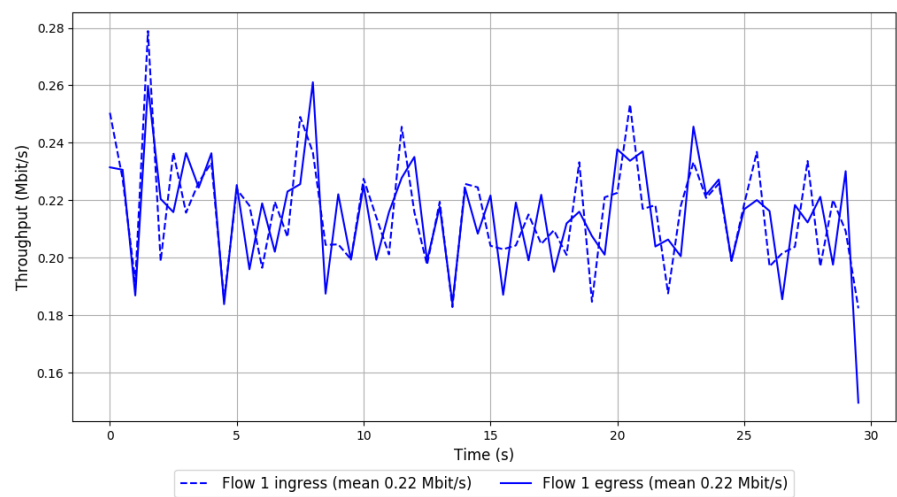
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 12:43:33

End at: 2018-04-10 12:44:03

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.38%

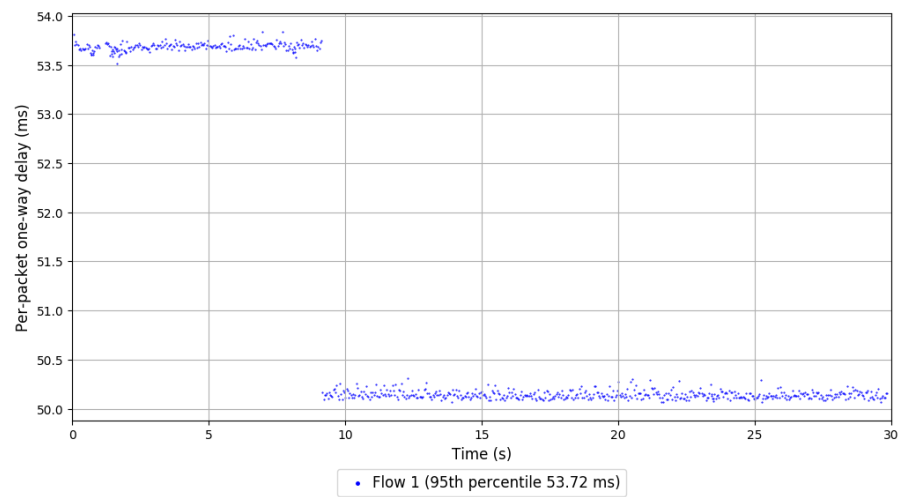
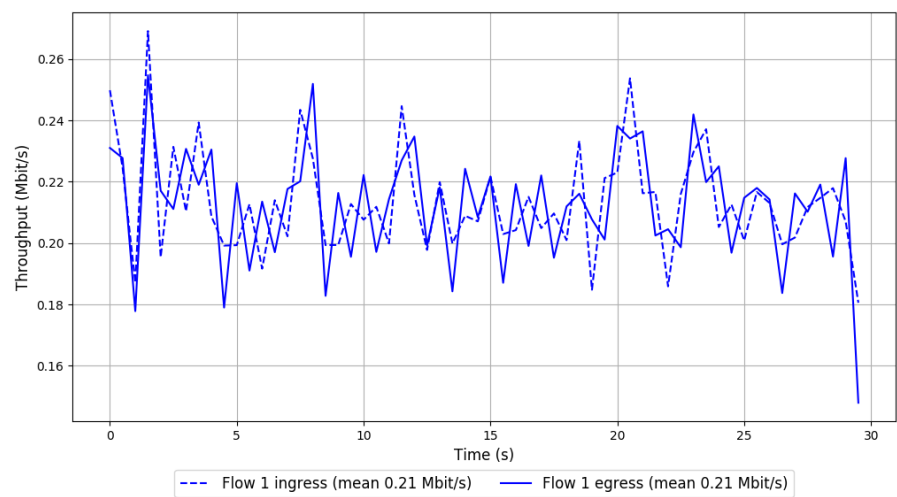
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.721 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 12:57:31

End at: 2018-04-10 12:58:01

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.449 ms

Loss rate: 0.38%

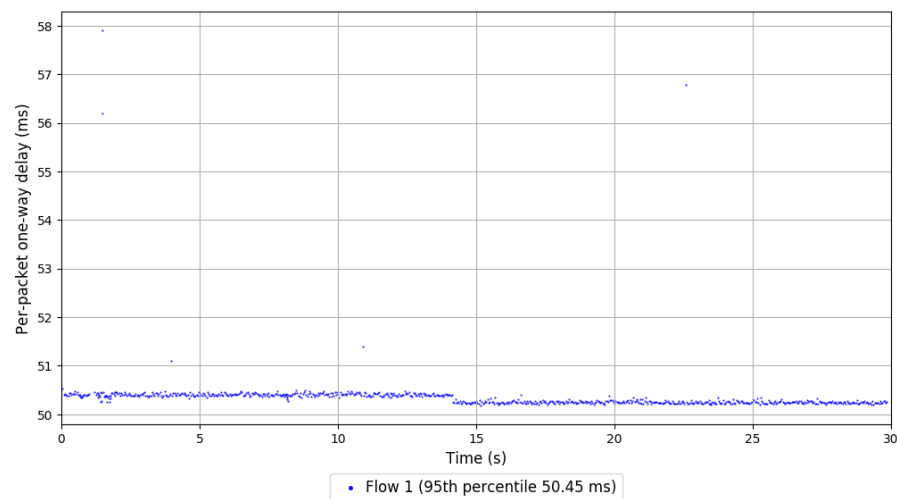
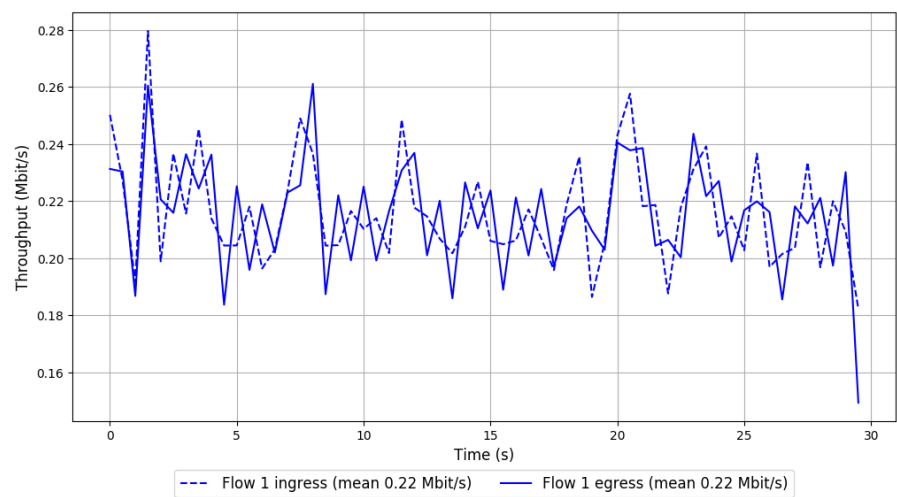
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.449 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link

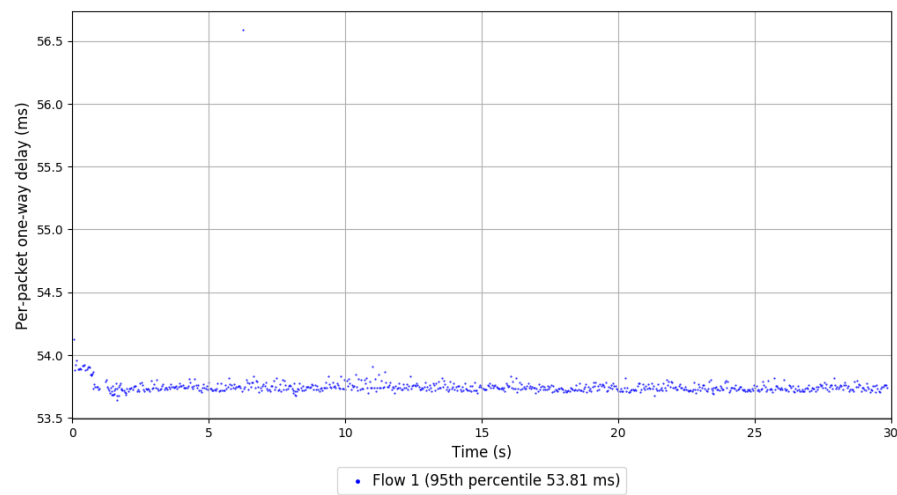
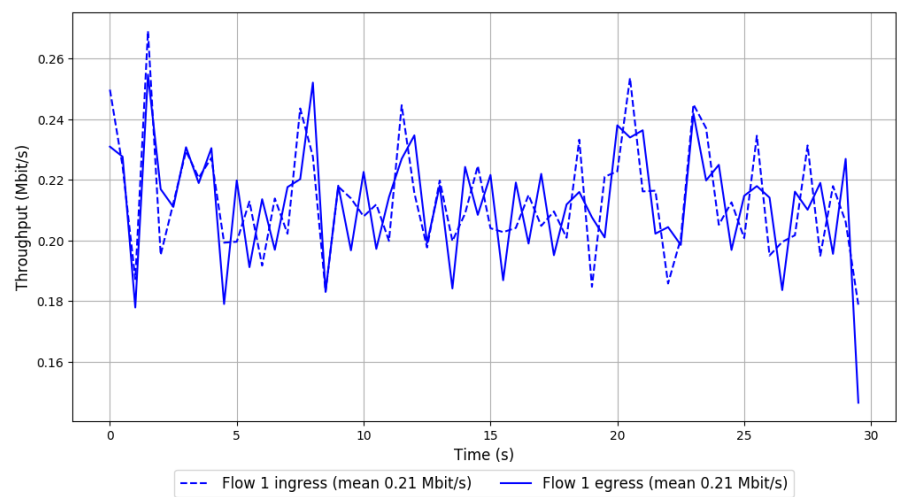


```
Run 7: Statistics of SCReAM

Start at: 2018-04-10 13:11:33
End at: 2018-04-10 13:12:03

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.814 ms
Loss rate: 0.38%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-10 13:25:36

End at: 2018-04-10 13:26:06

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.761 ms

Loss rate: 0.38%

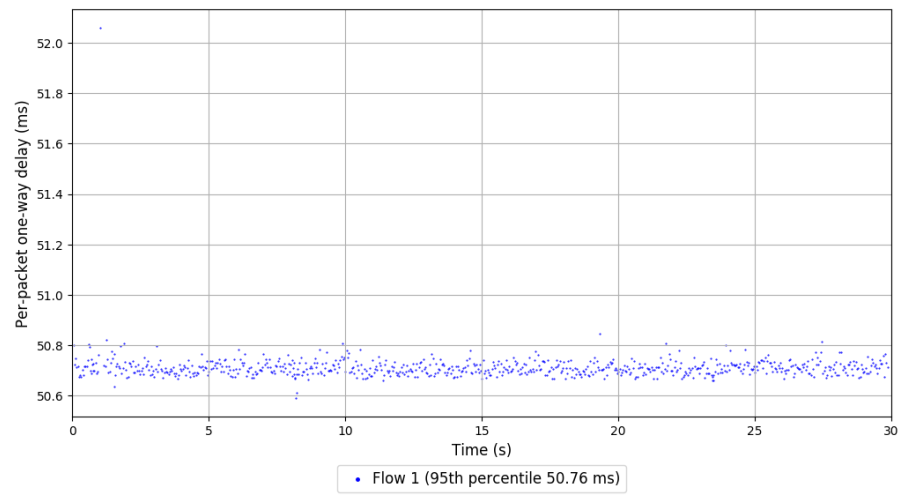
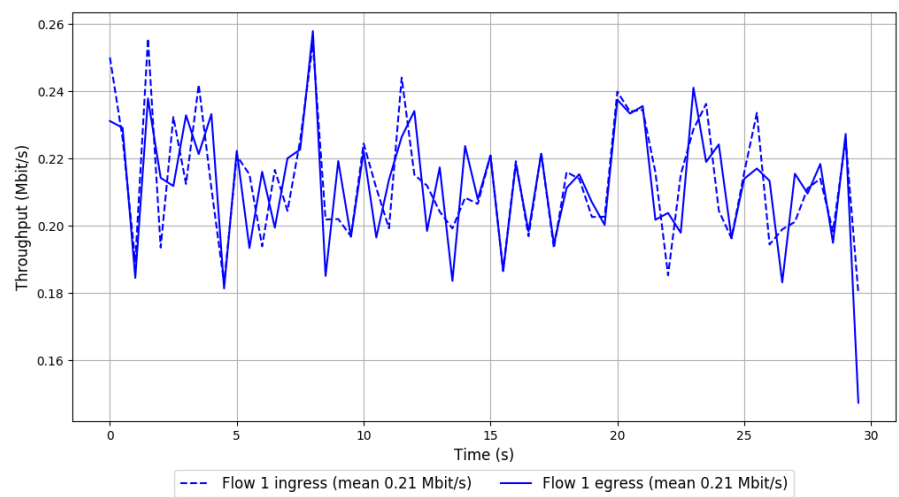
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.761 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-10 13:39:50

End at: 2018-04-10 13:40:20

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.38%

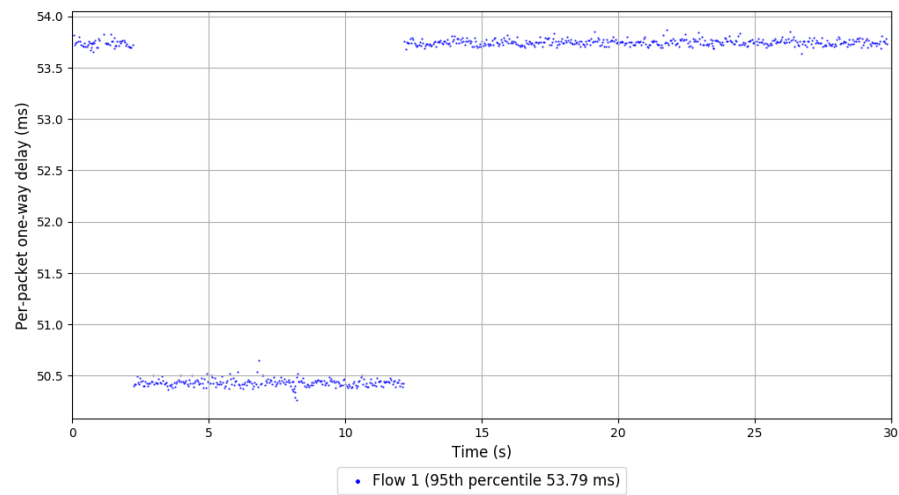
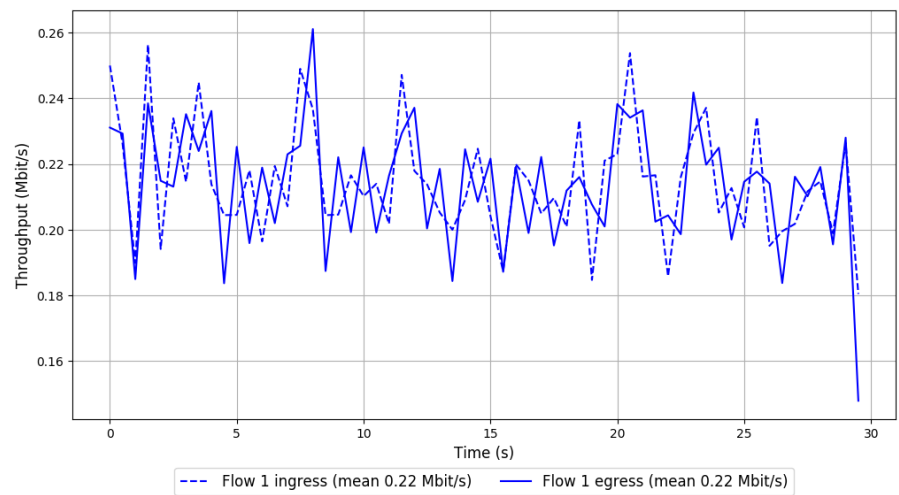
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.788 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-10 13:54:07

End at: 2018-04-10 13:54:37

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.889 ms

Loss rate: 0.38%

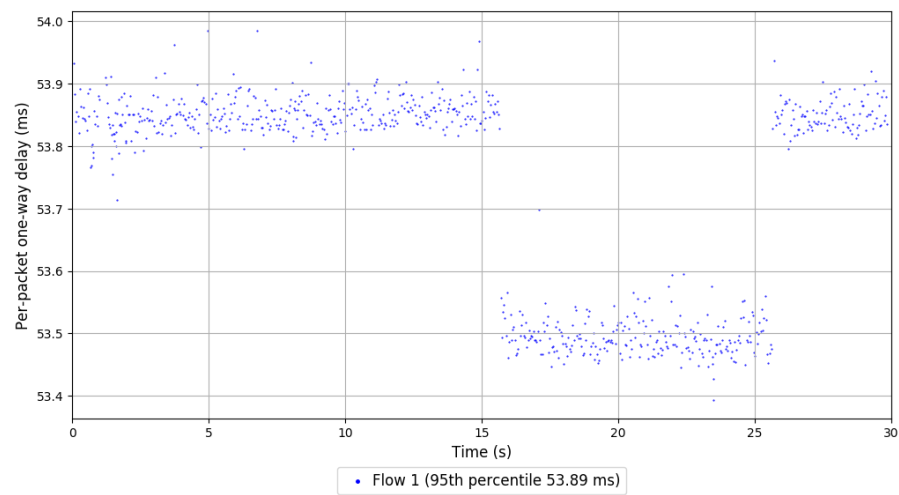
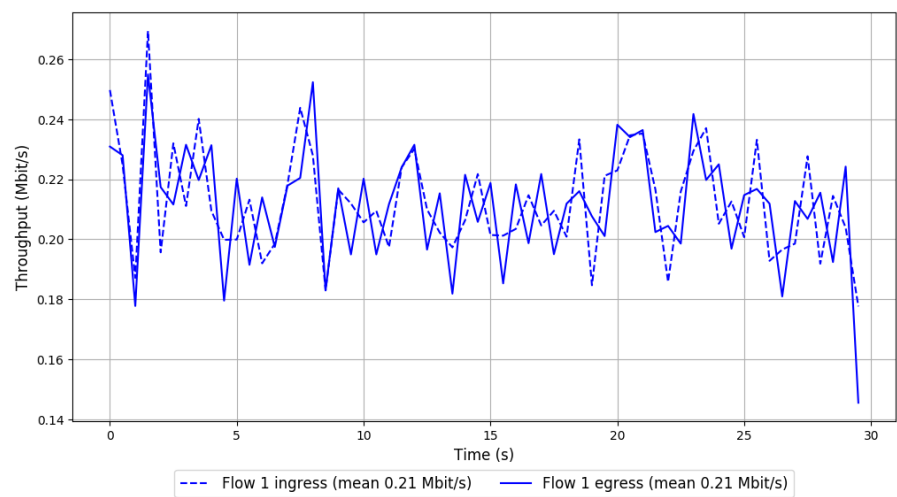
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.889 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

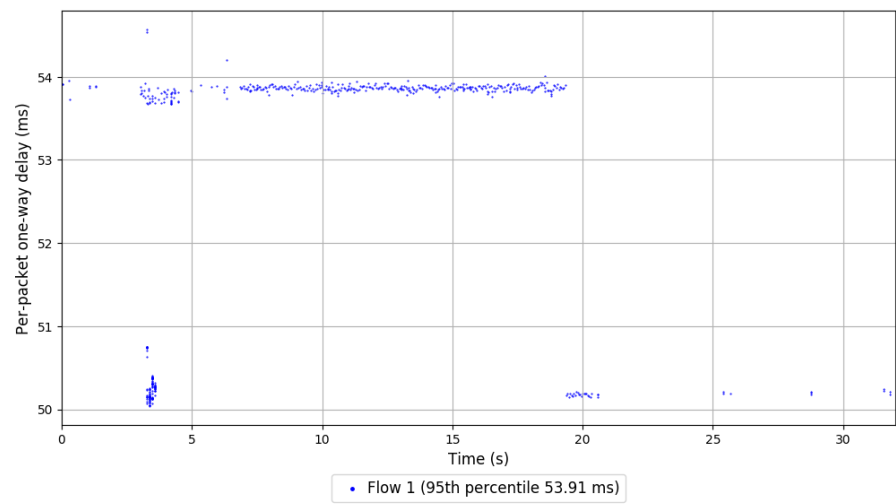
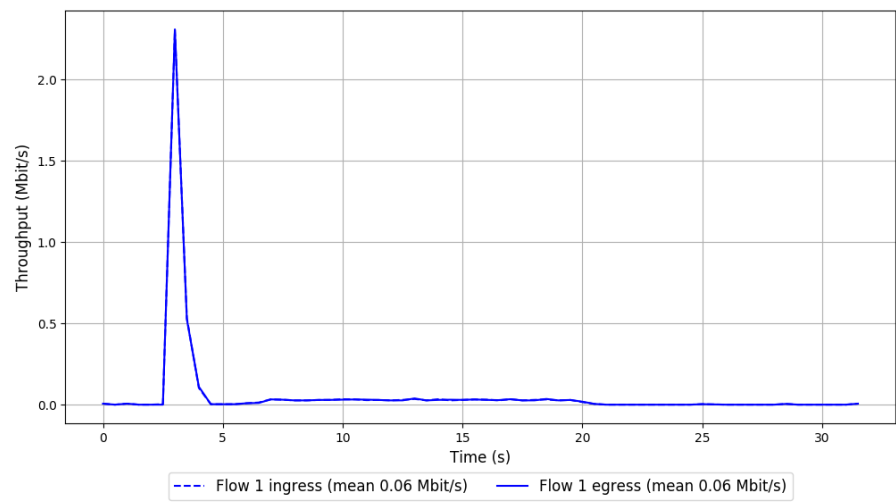


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-10 11:56:55
End at: 2018-04-10 11:57:25

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

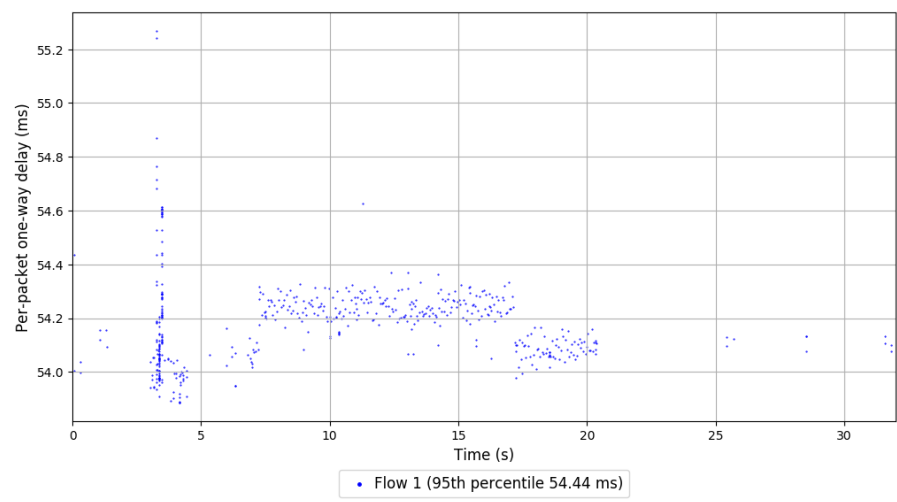
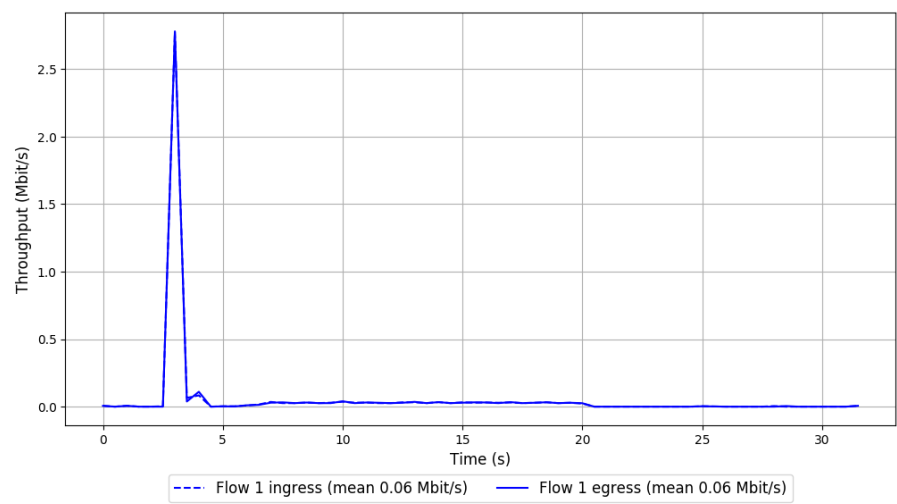


```
Run 2: Statistics of WebRTC media

Start at: 2018-04-10 12:11:18
End at: 2018-04-10 12:11:48

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.437 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.437 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 12:25:32

End at: 2018-04-10 12:26:02

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.00%

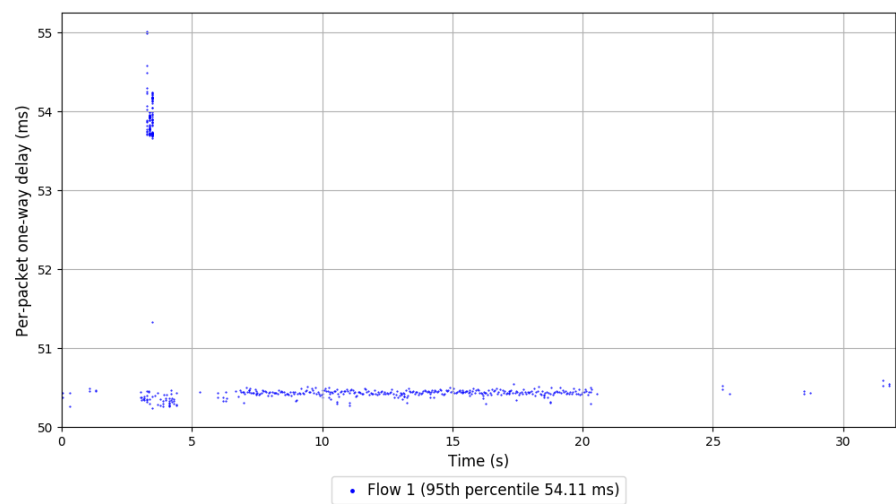
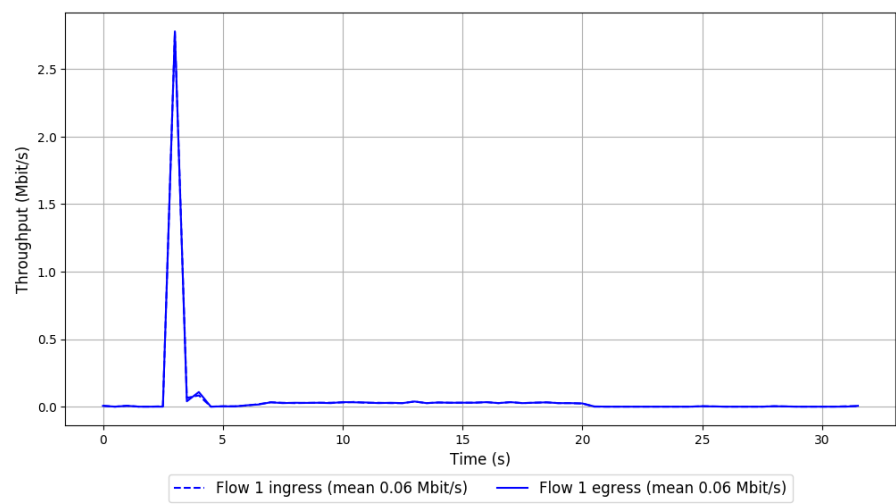
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.107 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 12:39:23

End at: 2018-04-10 12:39:53

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

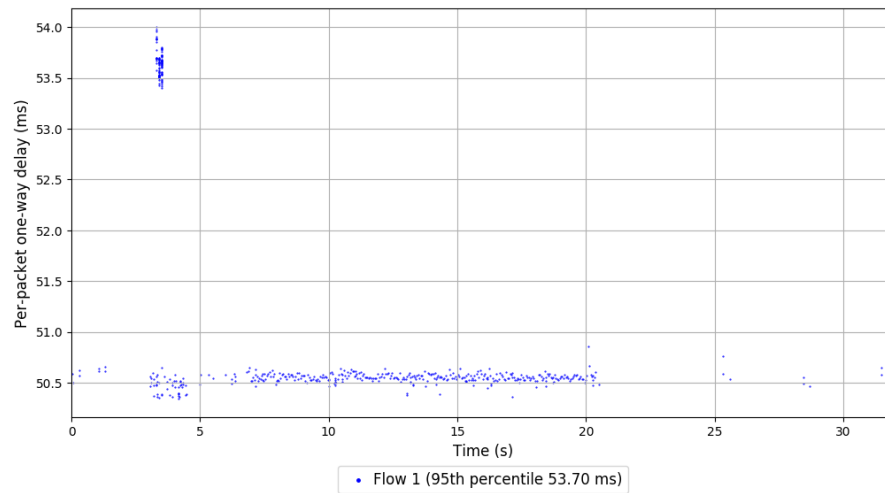
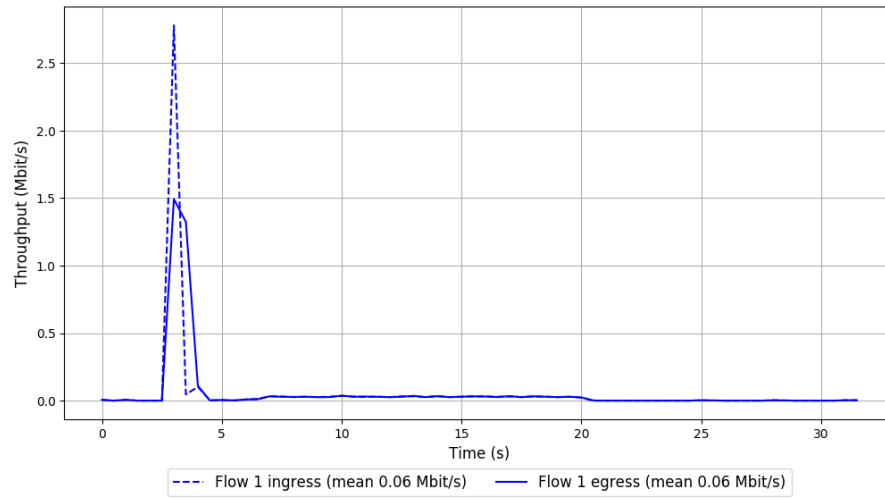
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 12:53:17

End at: 2018-04-10 12:53:47

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.076 ms

Loss rate: 0.00%

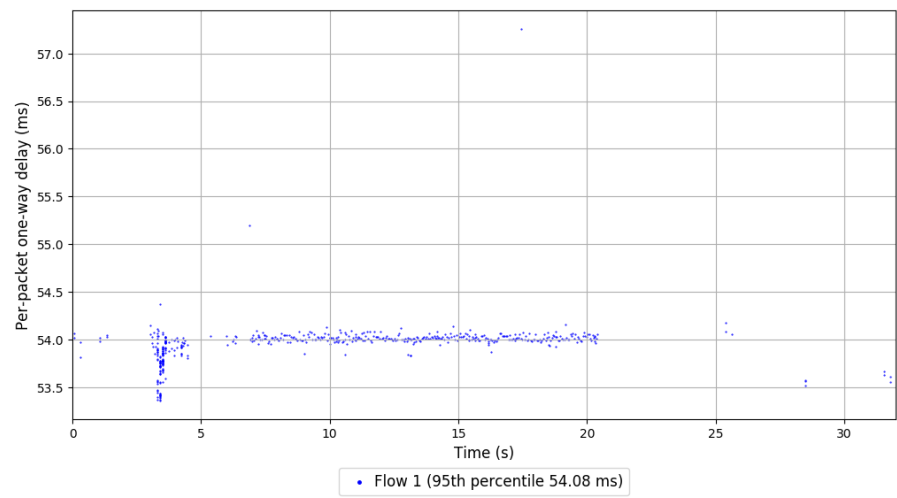
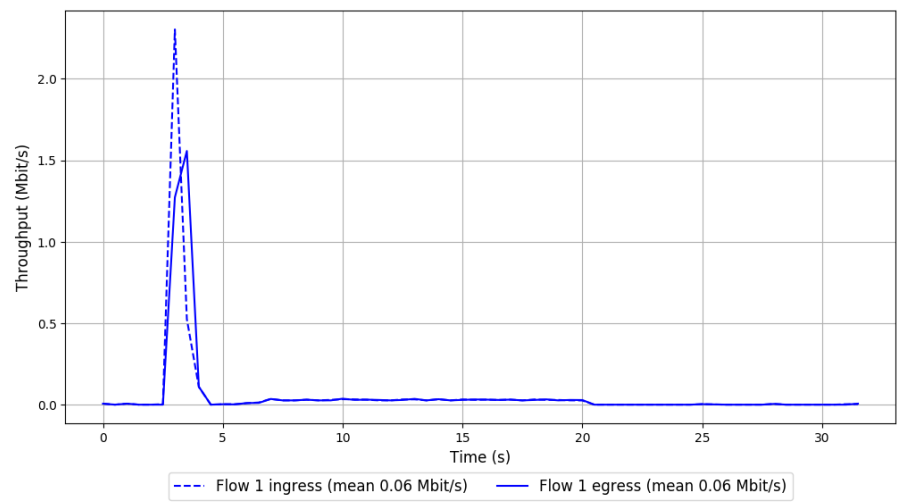
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.076 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 13:07:21

End at: 2018-04-10 13:07:51

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 0.00%

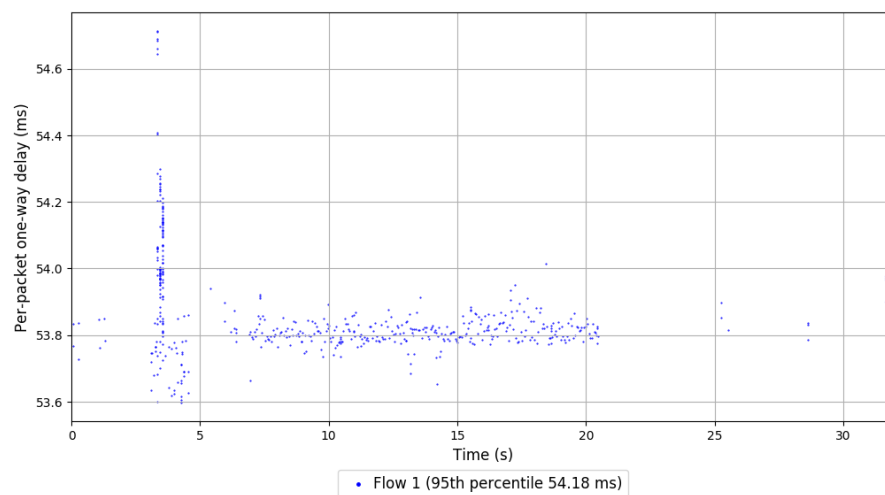
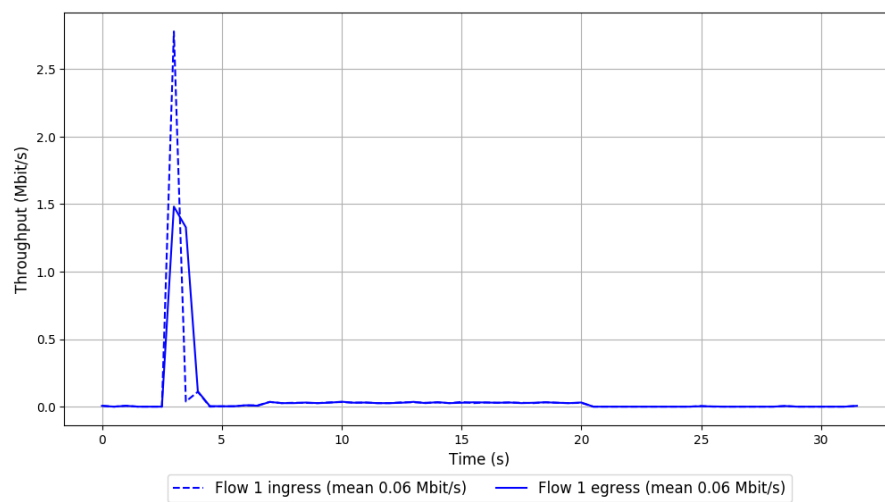
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 13:21:22

End at: 2018-04-10 13:21:52

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.615 ms

Loss rate: 0.00%

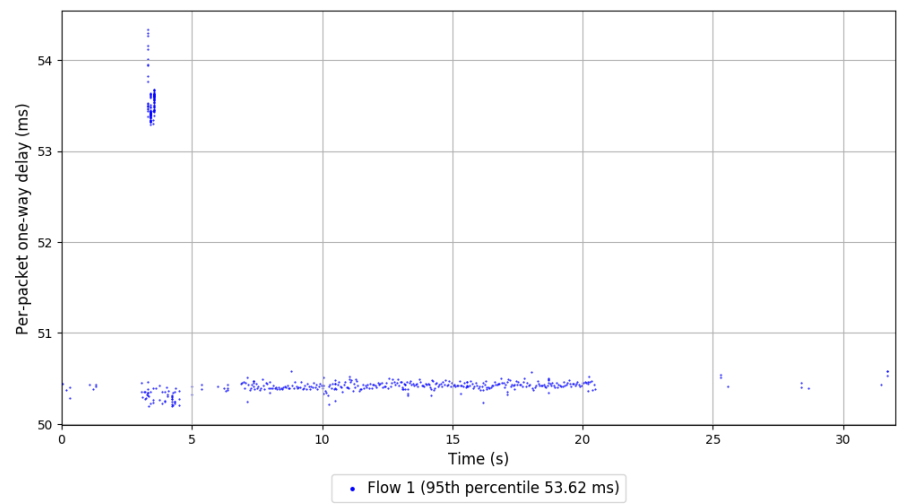
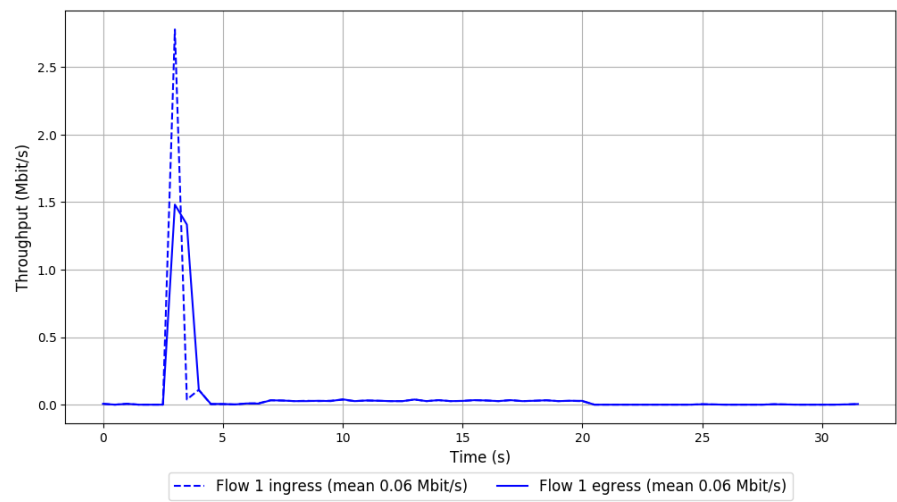
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.615 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 13:35:36

End at: 2018-04-10 13:36:06

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

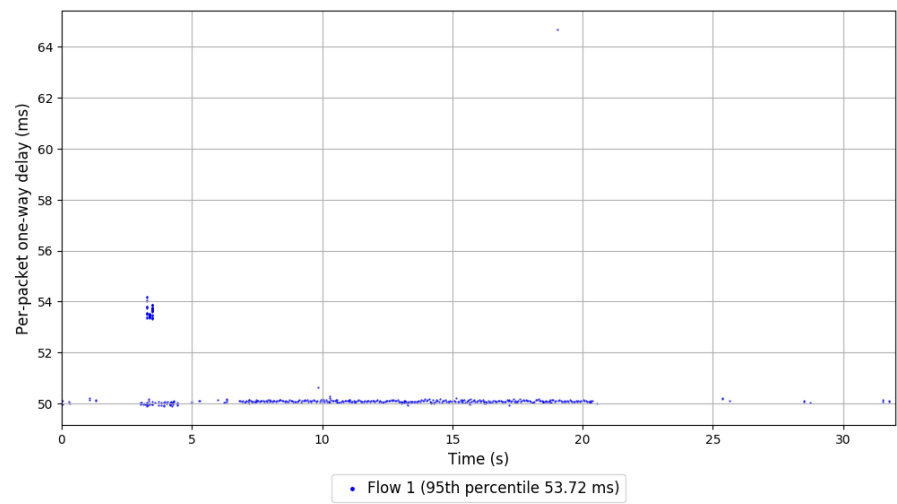
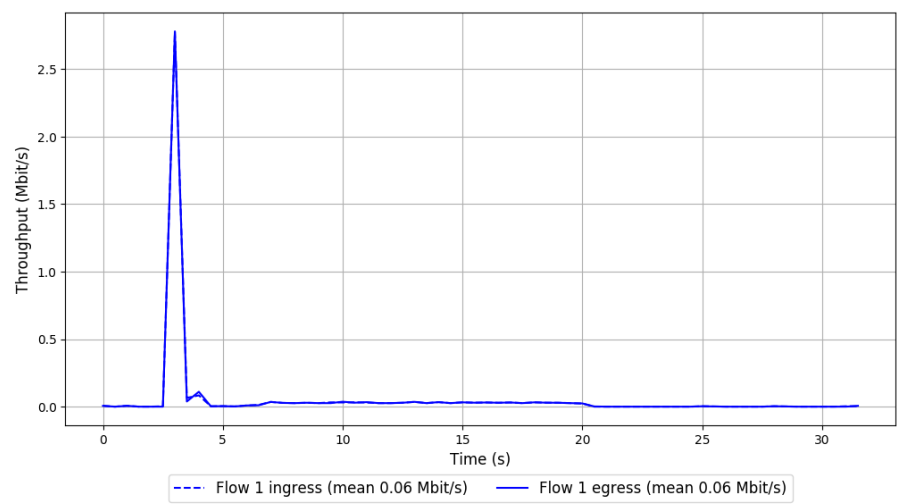
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-10 13:49:55

End at: 2018-04-10 13:50:25

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 0.00%

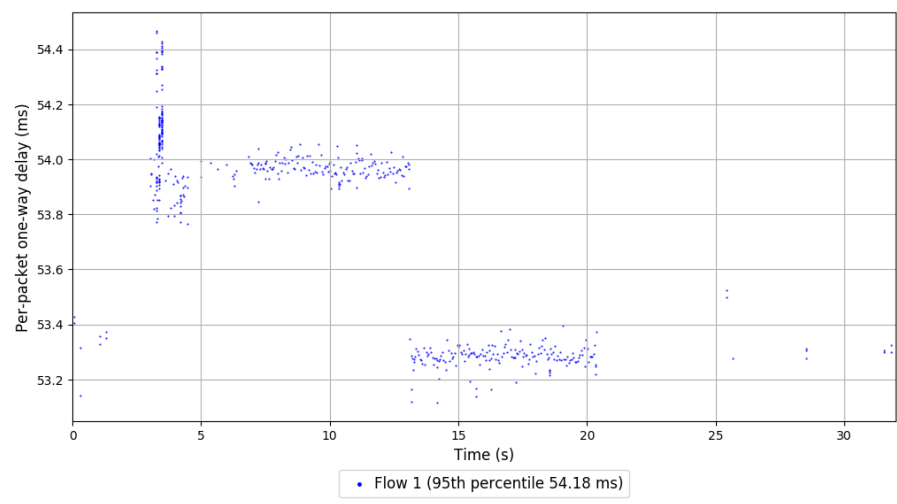
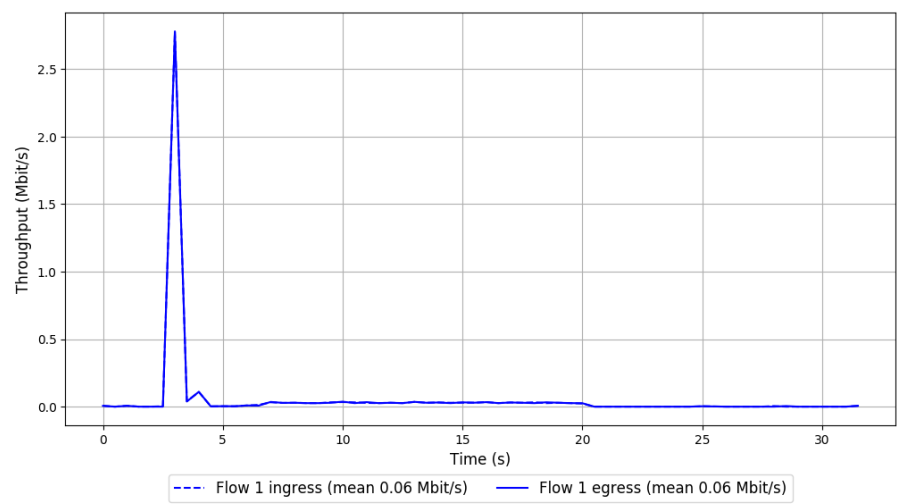
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.182 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link

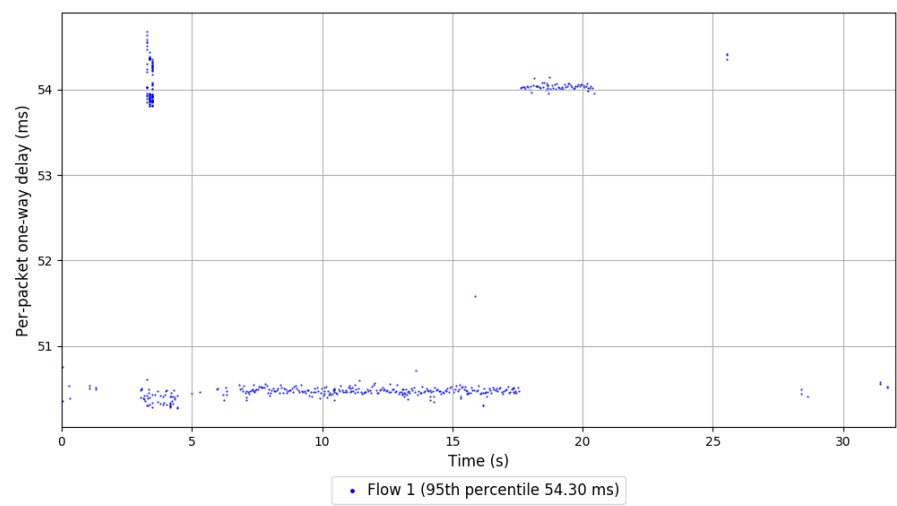
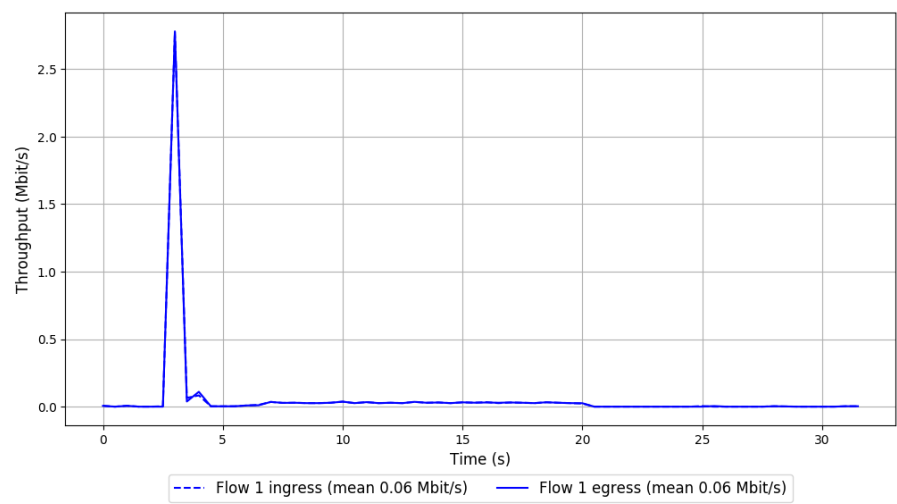


```
Run 10: Statistics of WebRTC media

Start at: 2018-04-10 14:04:10
End at: 2018-04-10 14:04:40

# Below is generated by plot.py at 2018-04-10 17:02:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.302 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-10 11:47:24

End at: 2018-04-10 11:47:54

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 0.43%

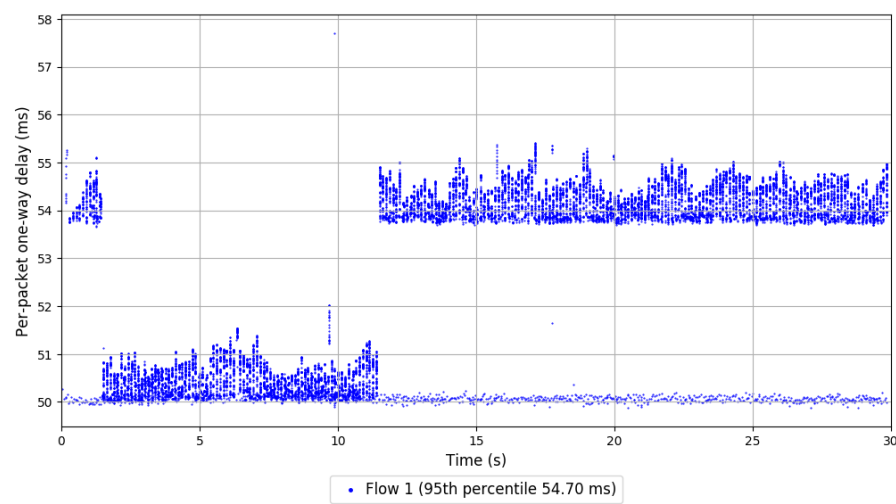
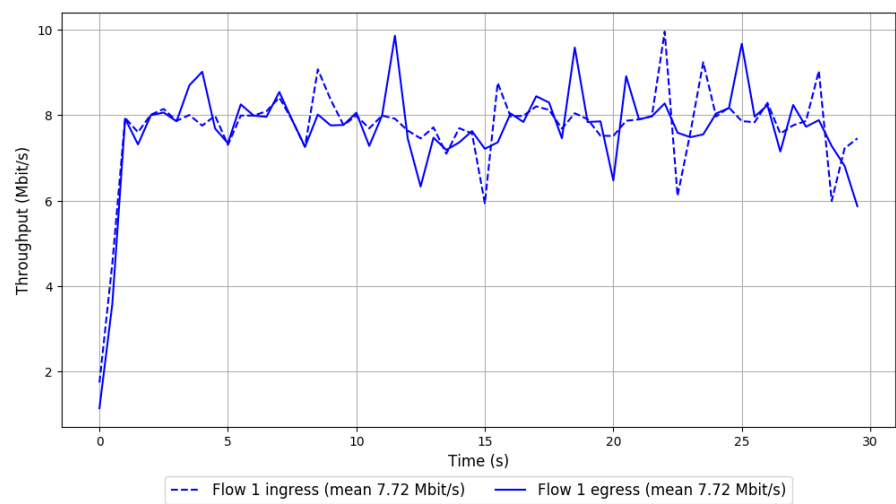
-- Flow 1:

Average throughput: 7.72 Mbit/s

95th percentile per-packet one-way delay: 54.704 ms

Loss rate: 0.43%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 12:01:48

End at: 2018-04-10 12:02:18

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.963 ms

Loss rate: 0.43%

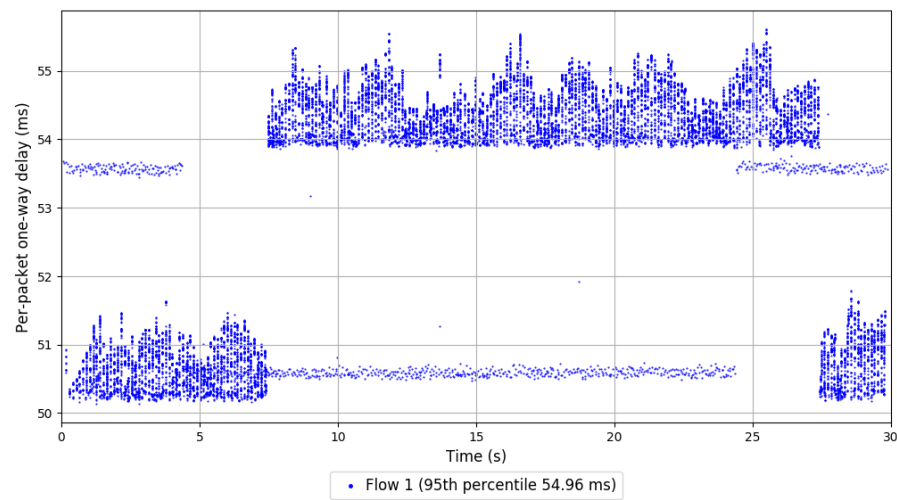
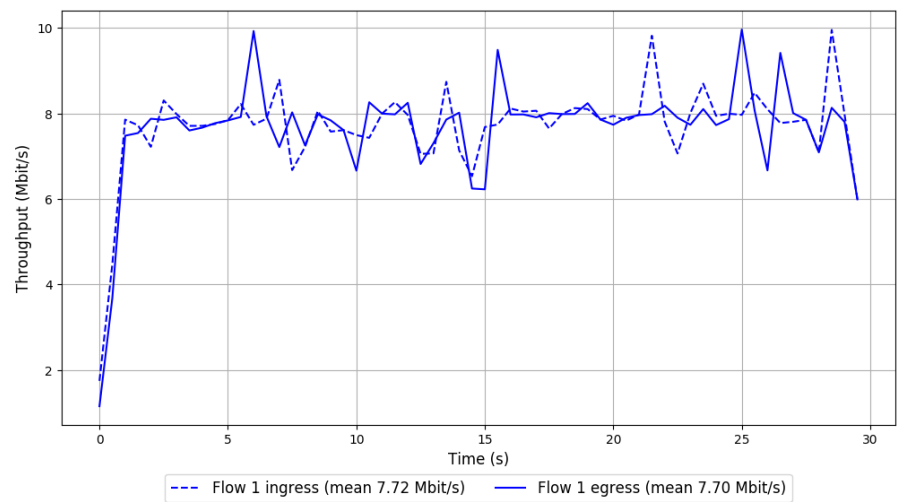
-- Flow 1:

Average throughput: 7.70 Mbit/s

95th percentile per-packet one-way delay: 54.963 ms

Loss rate: 0.43%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-10 12:16:04

End at: 2018-04-10 12:16:34

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 55.027 ms

Loss rate: 0.41%

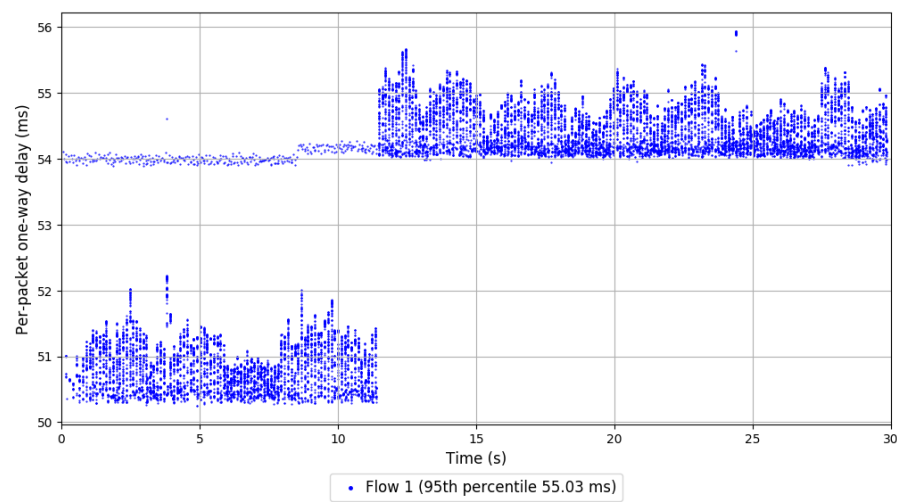
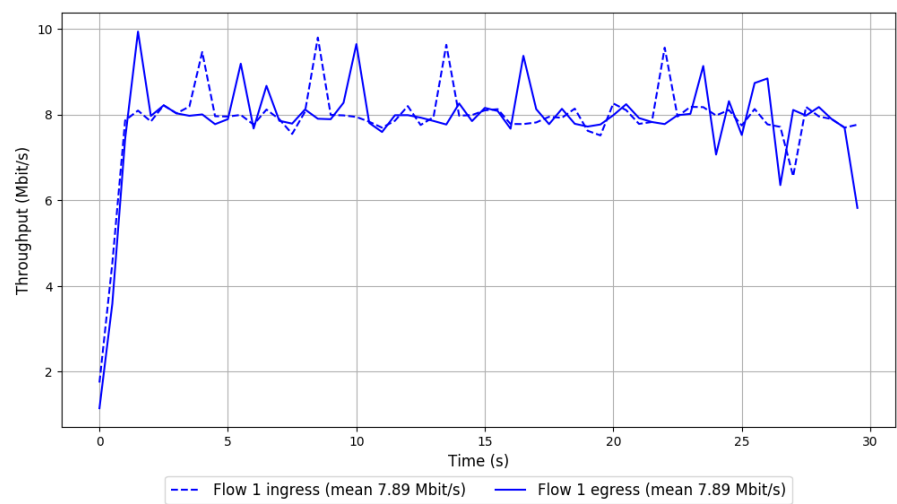
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 55.027 ms

Loss rate: 0.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 12:30:18

End at: 2018-04-10 12:30:48

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.878 ms

Loss rate: 0.24%

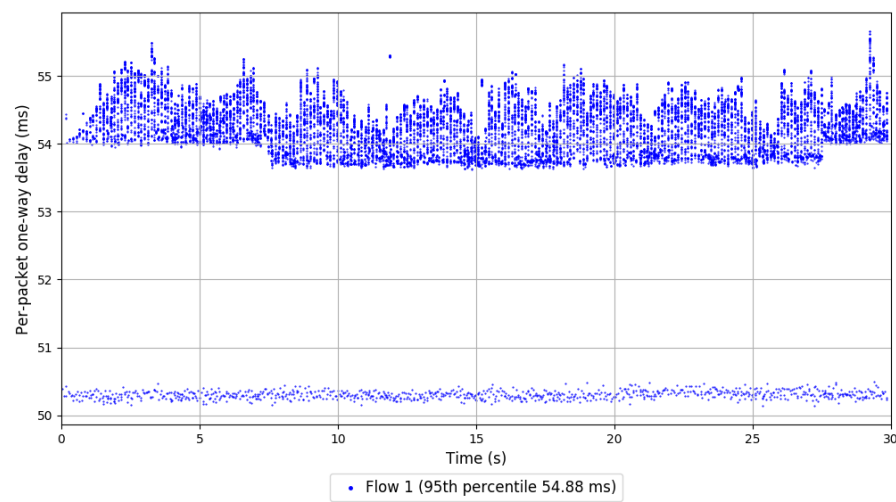
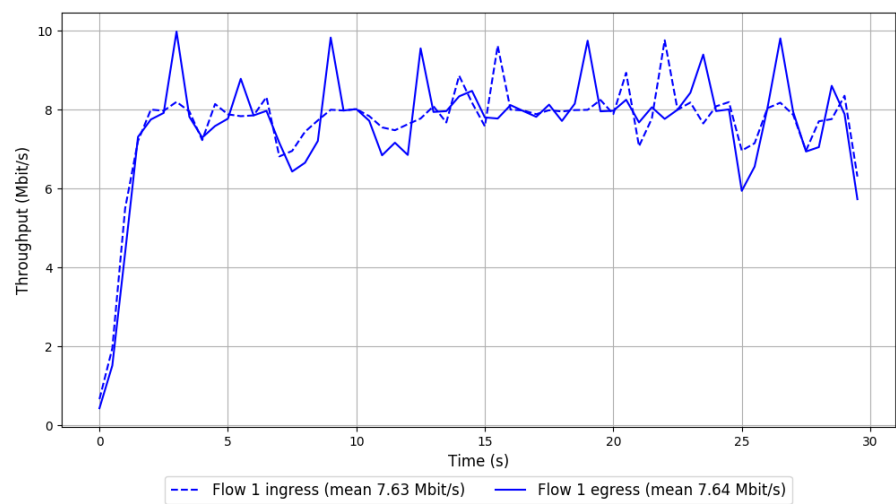
-- Flow 1:

Average throughput: 7.64 Mbit/s

95th percentile per-packet one-way delay: 54.878 ms

Loss rate: 0.24%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 12:44:10

End at: 2018-04-10 12:44:40

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.34%

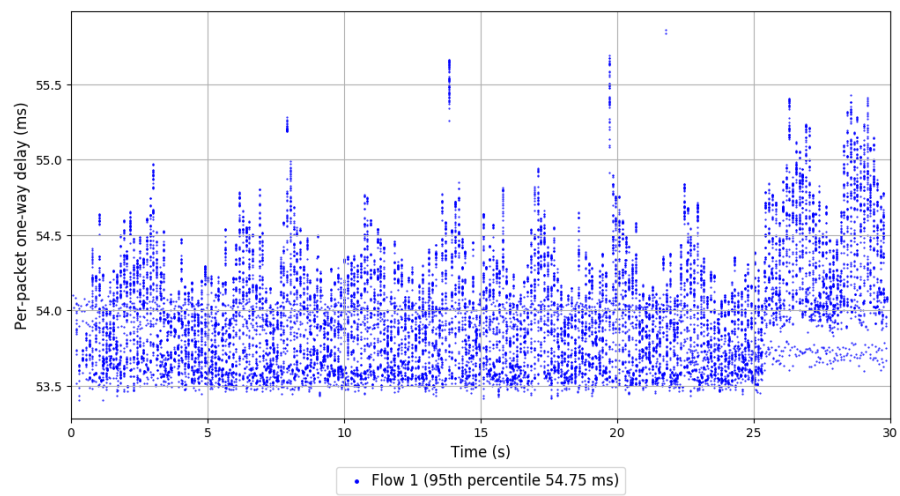
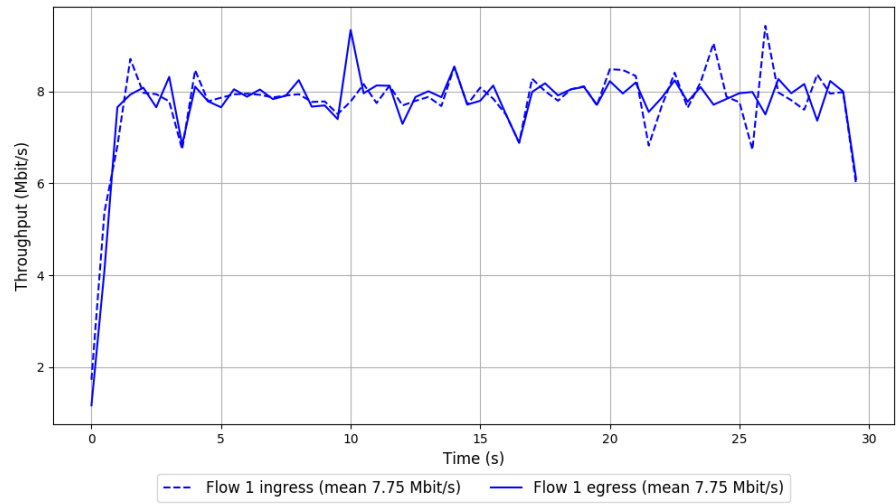
-- Flow 1:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.34%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 12:58:08

End at: 2018-04-10 12:58:38

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.38%

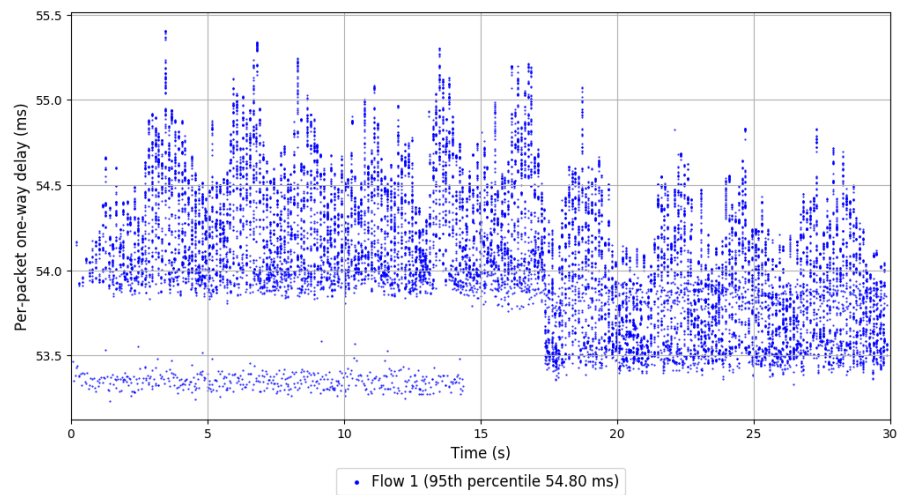
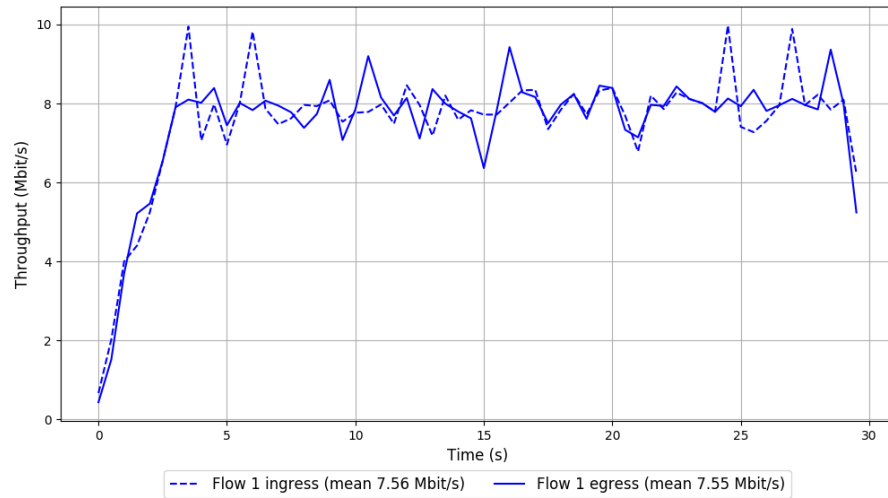
-- Flow 1:

Average throughput: 7.55 Mbit/s

95th percentile per-packet one-way delay: 54.802 ms

Loss rate: 0.38%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-10 13:12:10

End at: 2018-04-10 13:12:40

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.884 ms

Loss rate: 0.28%

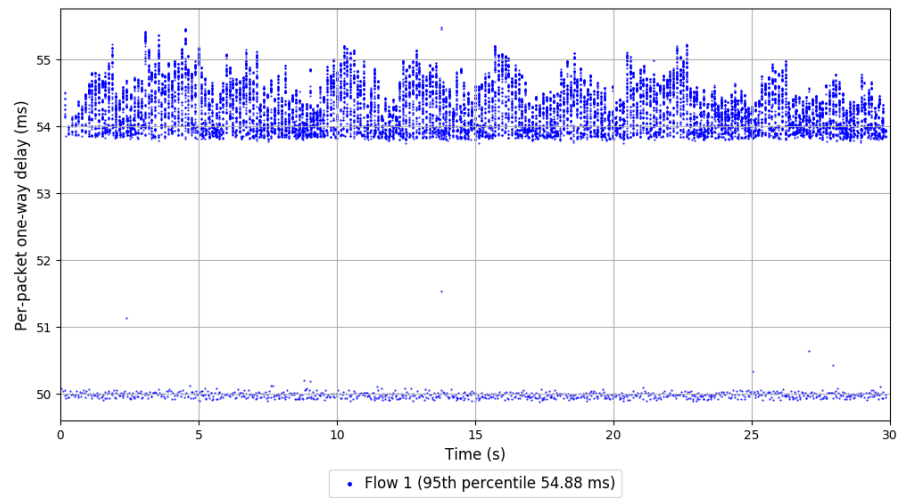
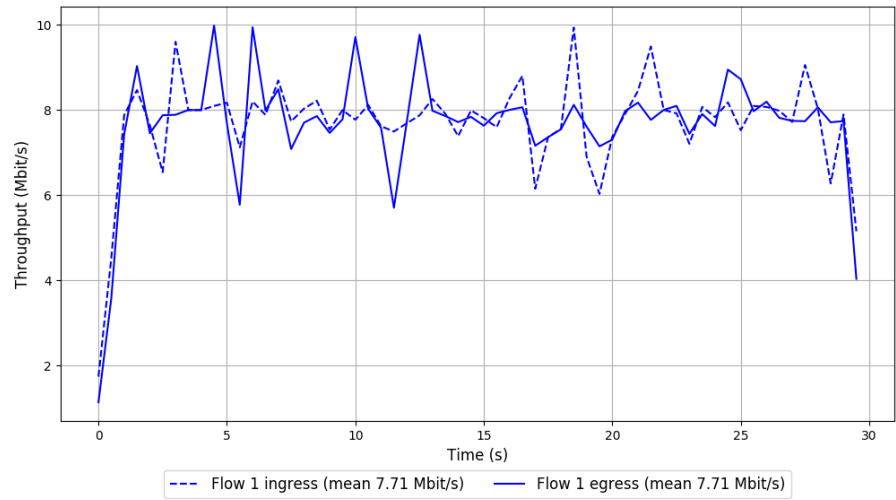
-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 54.884 ms

Loss rate: 0.28%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 13:26:13

End at: 2018-04-10 13:26:43

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

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

Loss rate: 0.40%

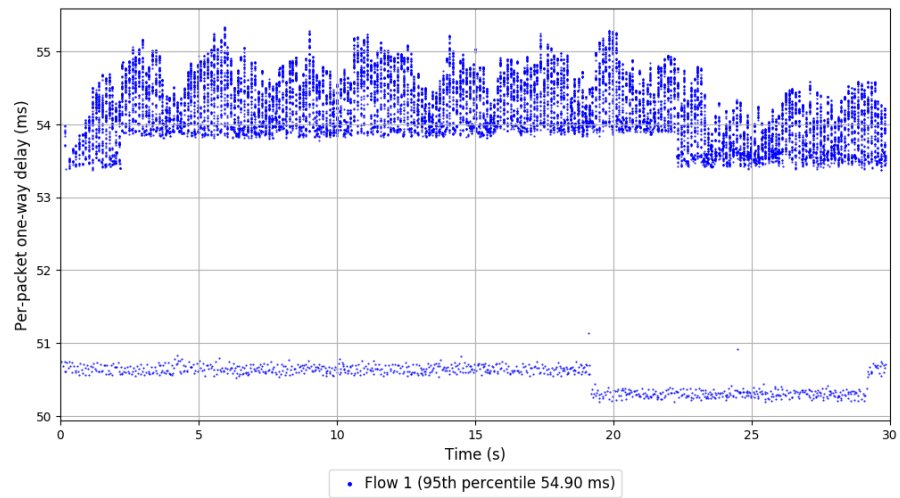
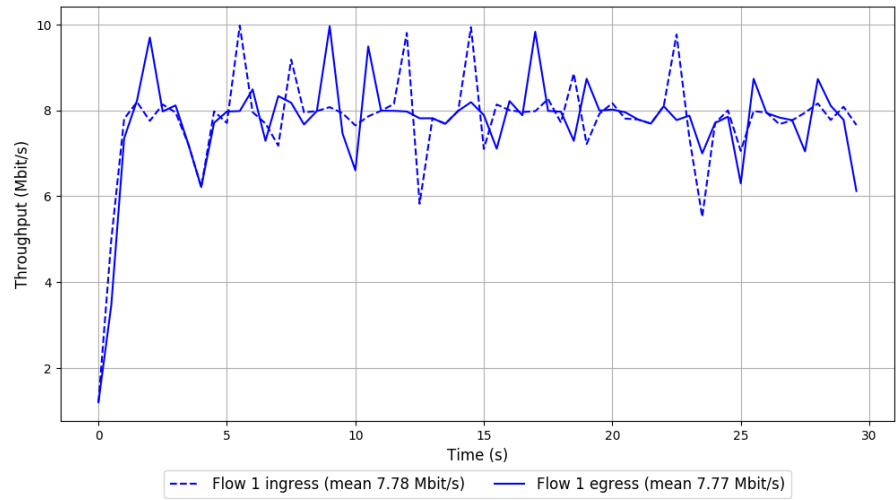
-- Flow 1:

Average throughput: 7.77 Mbit/s

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

Loss rate: 0.40%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-10 13:40:27

End at: 2018-04-10 13:40:57

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.835 ms

Loss rate: 0.36%

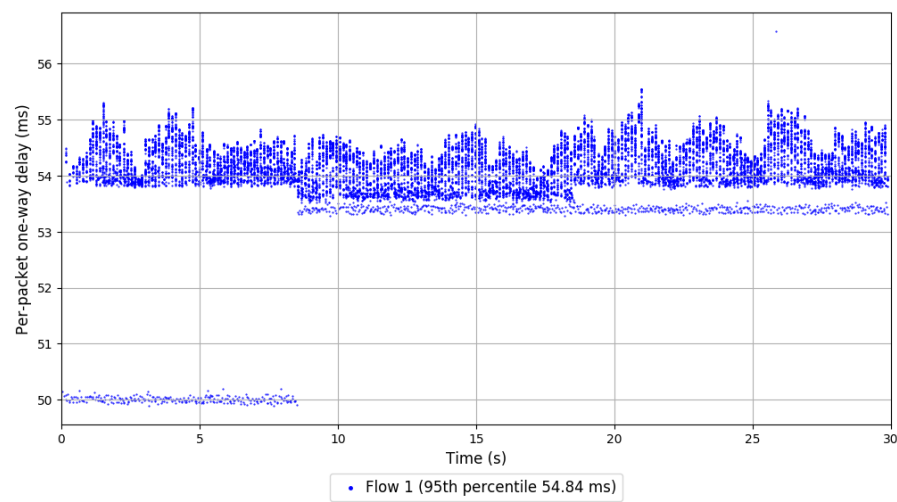
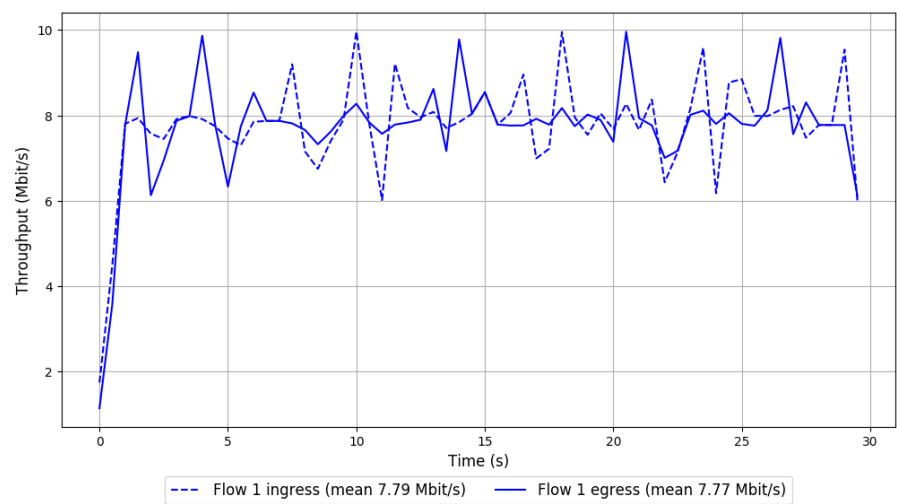
-- Flow 1:

Average throughput: 7.77 Mbit/s

95th percentile per-packet one-way delay: 54.835 ms

Loss rate: 0.36%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-10 13:54:43

End at: 2018-04-10 13:55:13

Below is generated by plot.py at 2018-04-10 17:02:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.918 ms

Loss rate: 0.19%

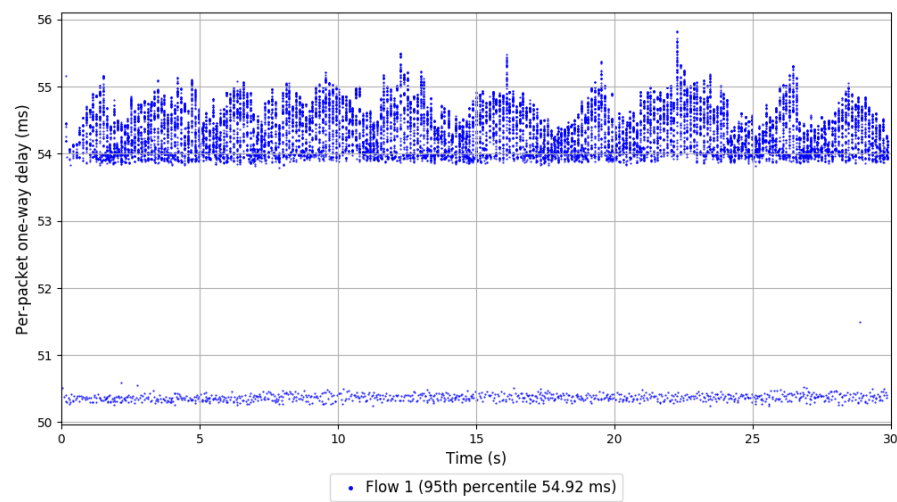
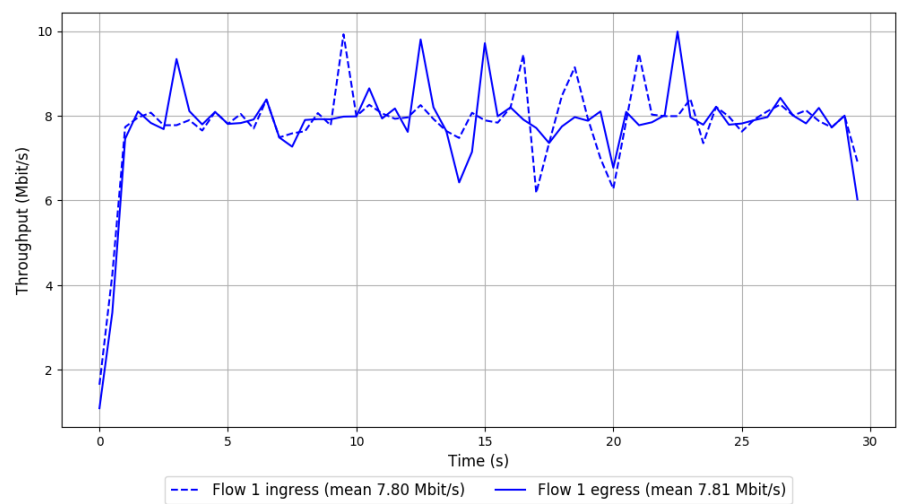
-- Flow 1:

Average throughput: 7.81 Mbit/s

95th percentile per-packet one-way delay: 54.918 ms

Loss rate: 0.19%

Run 10: Report of Sprout — Data Link

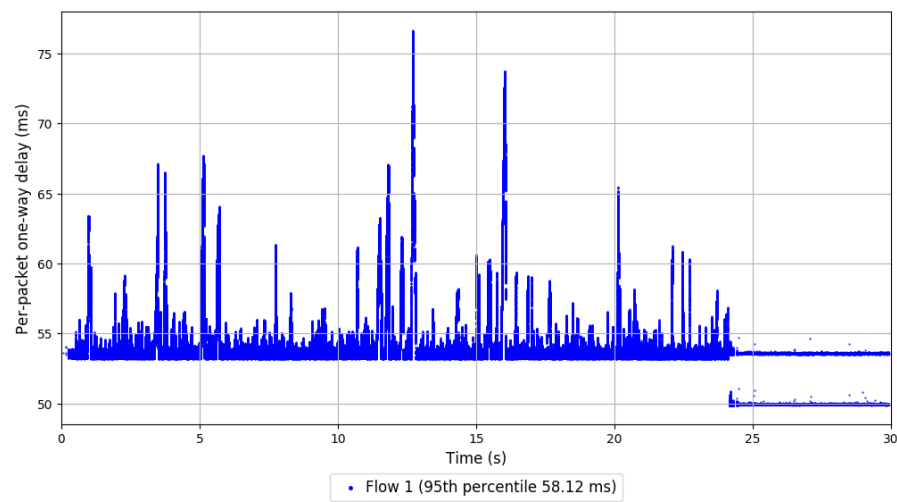
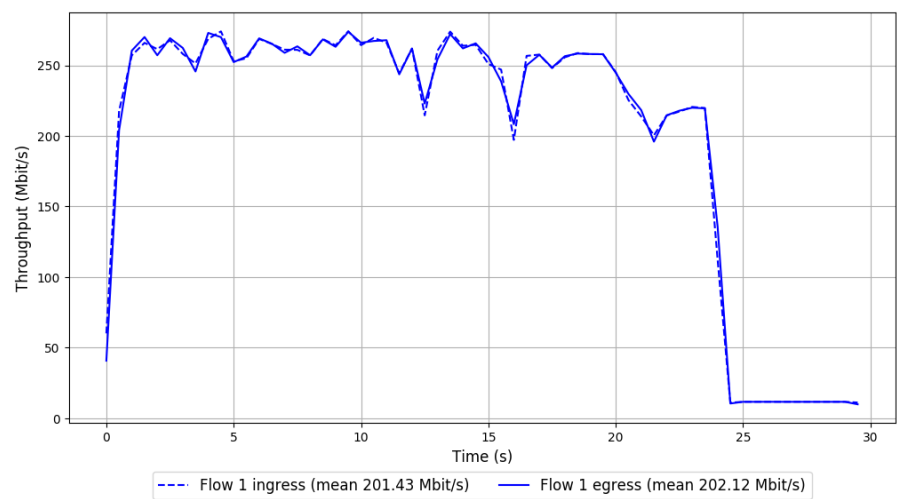


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 11:48:01
End at: 2018-04-10 11:48:31

# Below is generated by plot.py at 2018-04-10 17:04:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 58.115 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 202.12 Mbit/s
95th percentile per-packet one-way delay: 58.115 ms
Loss rate: 0.02%
```

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

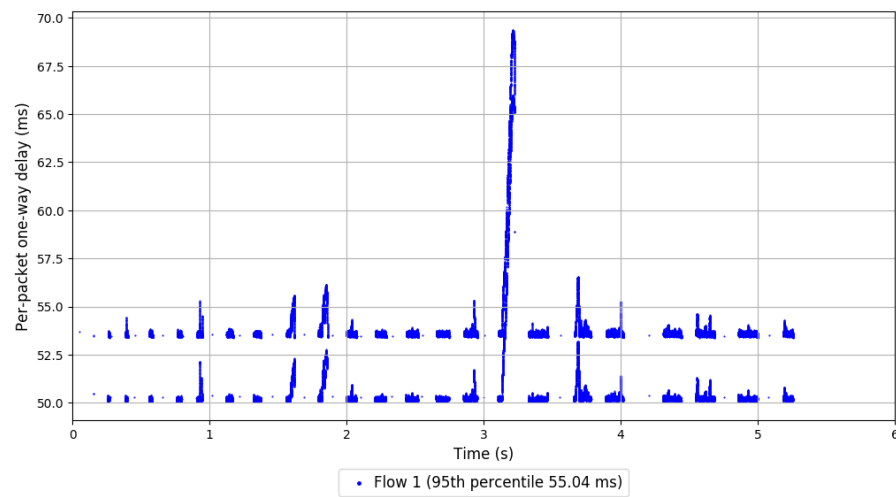
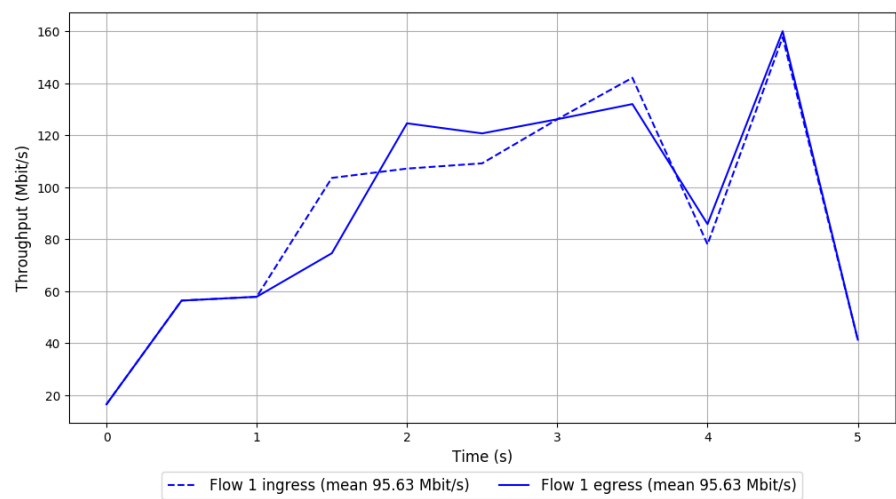


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 12:02:25

End at: 2018-04-10 12:02:55

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

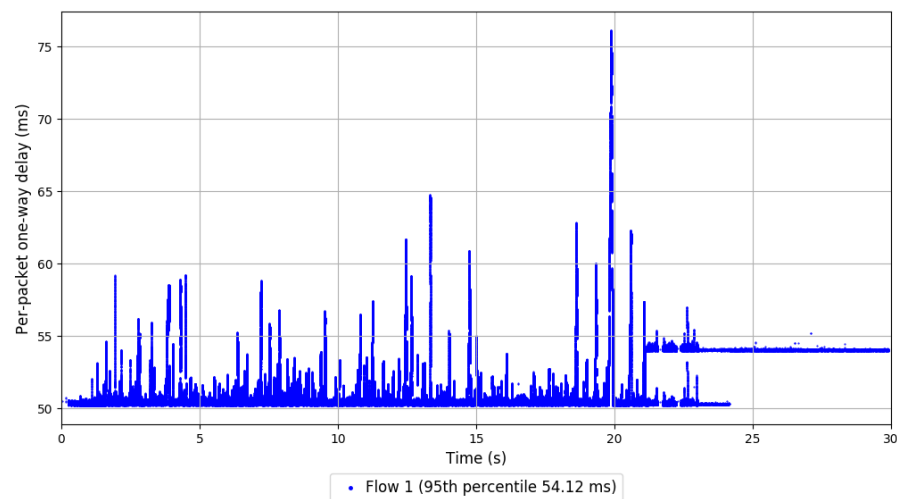
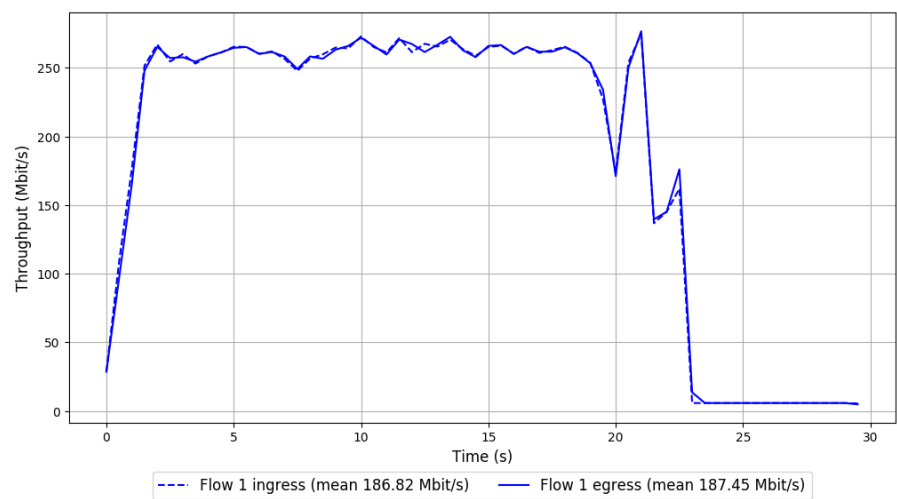


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 12:16:41
End at: 2018-04-10 12:17:11

# Below is generated by plot.py at 2018-04-10 17:04:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 187.45 Mbit/s
95th percentile per-packet one-way delay: 54.117 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 187.45 Mbit/s
95th percentile per-packet one-way delay: 54.117 ms
Loss rate: 0.01%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 12:30:55

End at: 2018-04-10 12:31:25

Below is generated by plot.py at 2018-04-10 17:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.16 Mbit/s

95th percentile per-packet one-way delay: 55.251 ms

Loss rate: 0.06%

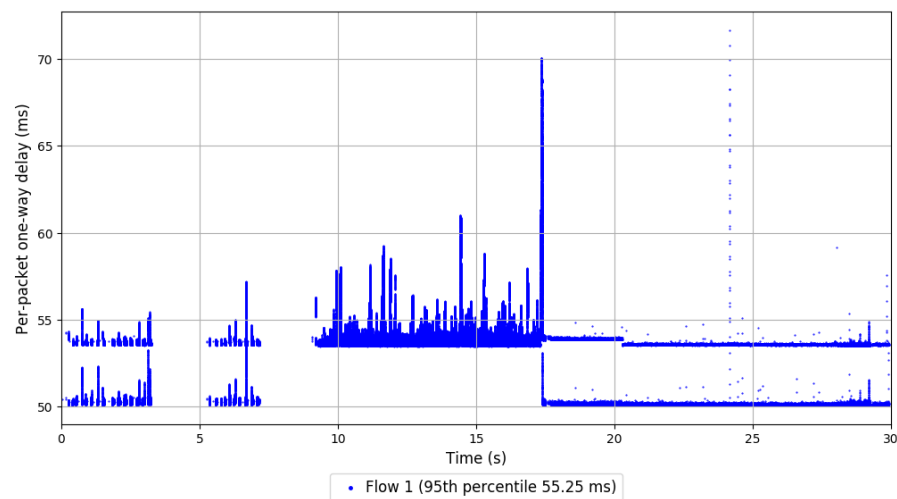
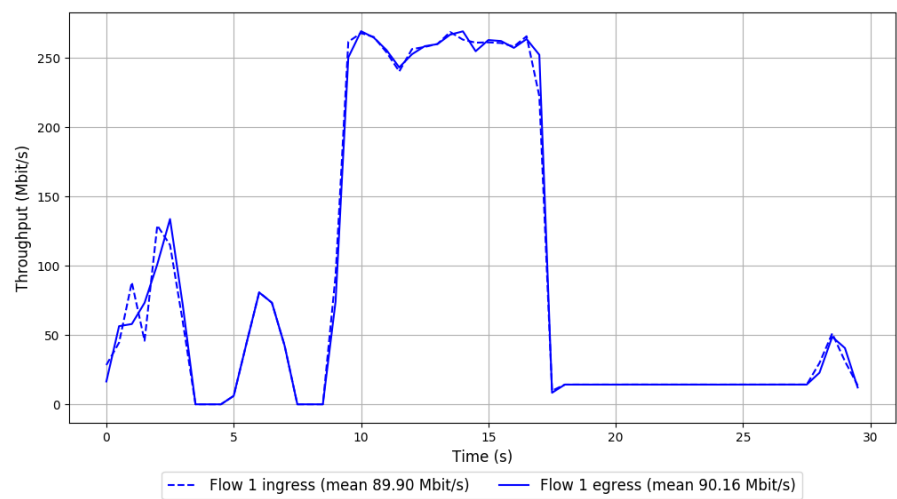
-- Flow 1:

Average throughput: 90.16 Mbit/s

95th percentile per-packet one-way delay: 55.251 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 12:44:47

End at: 2018-04-10 12:45:17

Below is generated by plot.py at 2018-04-10 17:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 53.996 ms

Loss rate: 0.17%

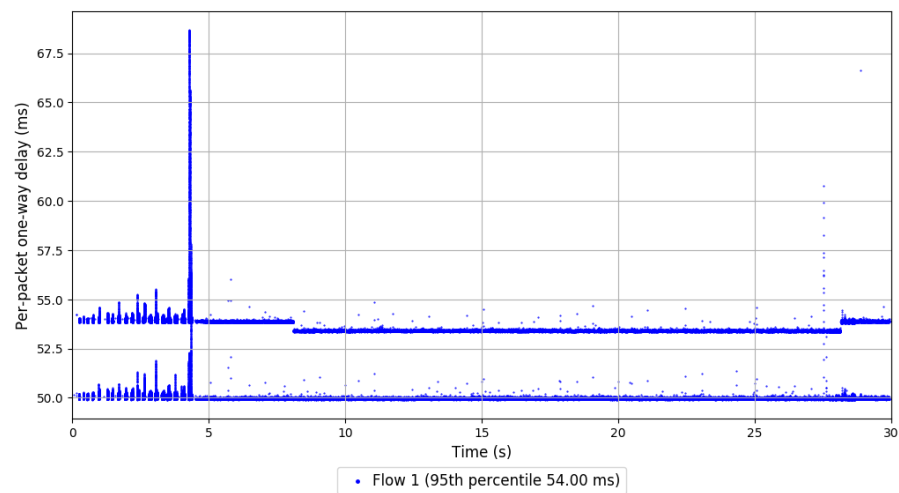
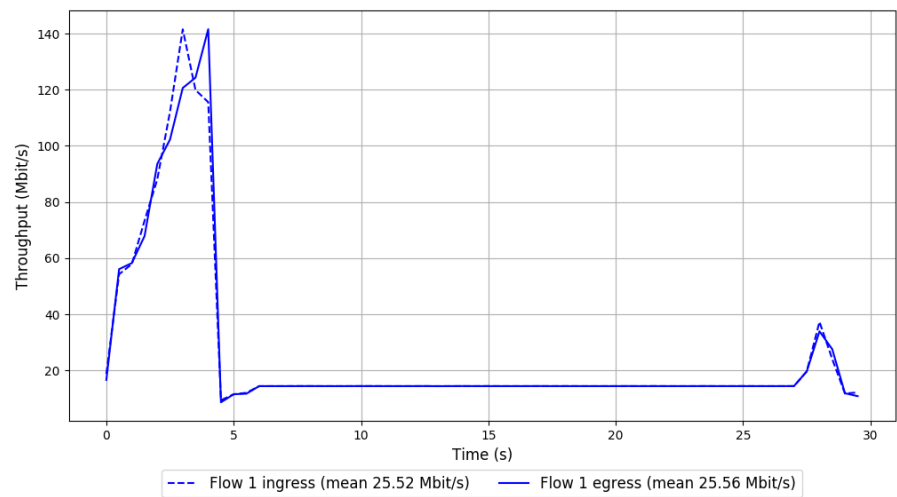
-- Flow 1:

Average throughput: 25.56 Mbit/s

95th percentile per-packet one-way delay: 53.996 ms

Loss rate: 0.17%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 12:58:45

End at: 2018-04-10 12:59:15

Below is generated by plot.py at 2018-04-10 17:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.13%

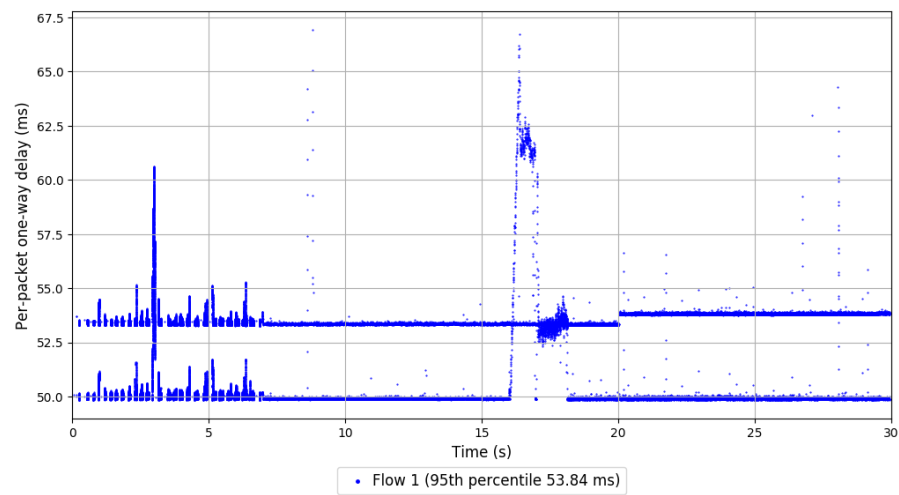
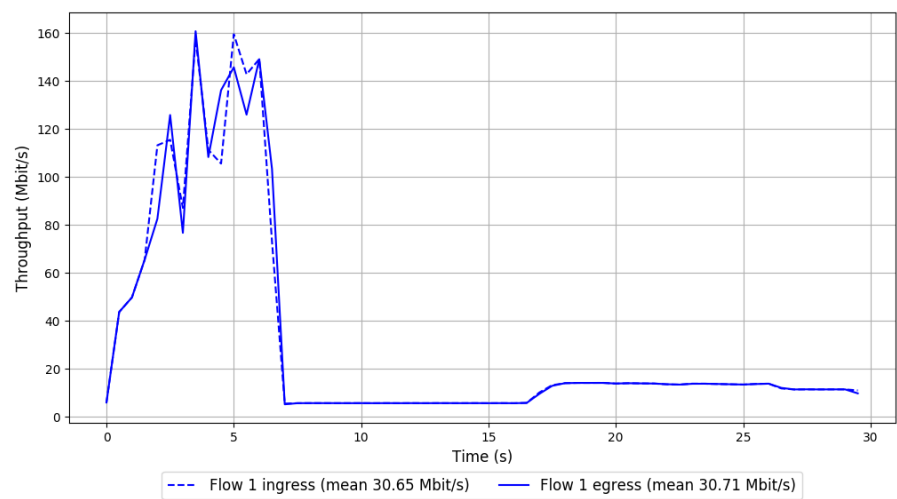
-- Flow 1:

Average throughput: 30.71 Mbit/s

95th percentile per-packet one-way delay: 53.841 ms

Loss rate: 0.13%

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

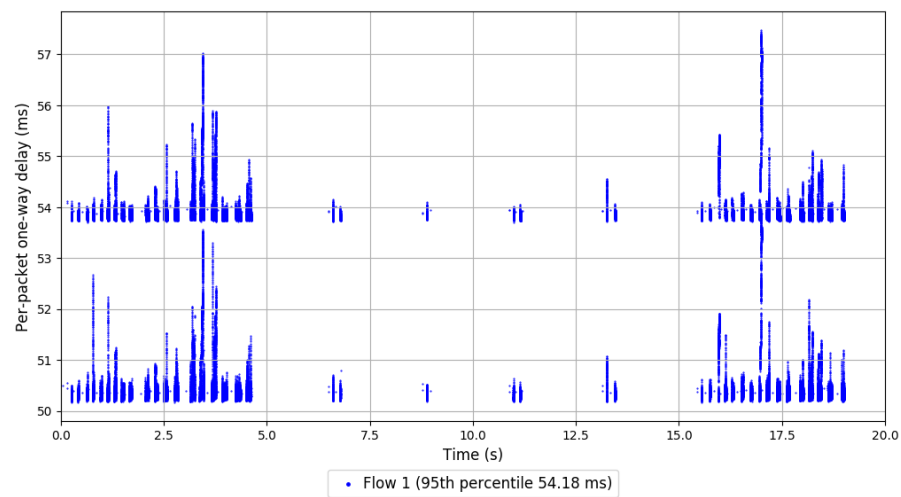
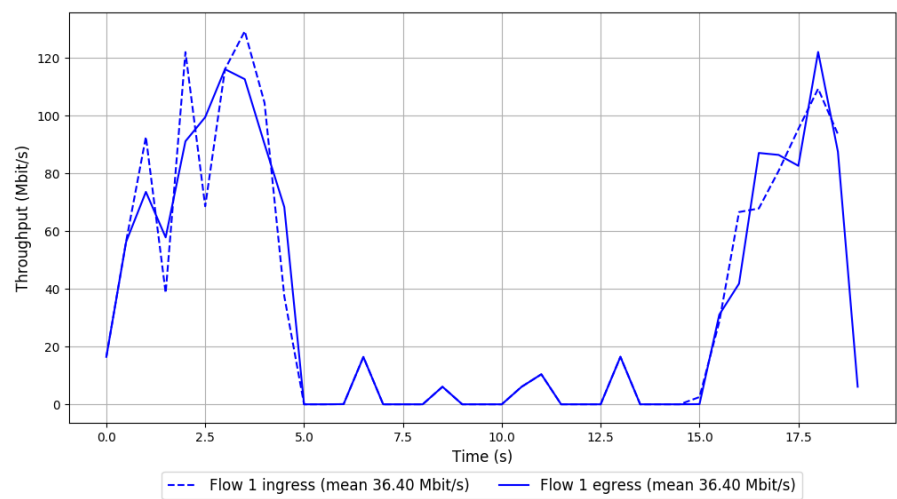


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 13:12:47

End at: 2018-04-10 13:13:17

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

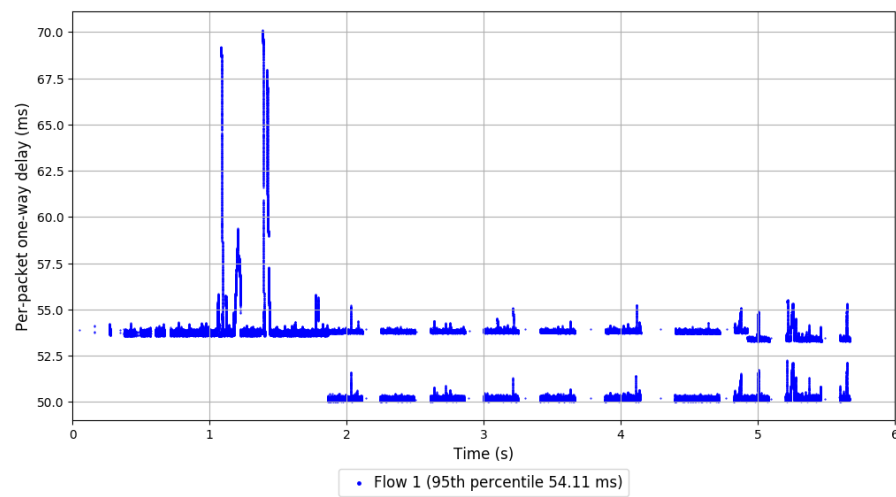
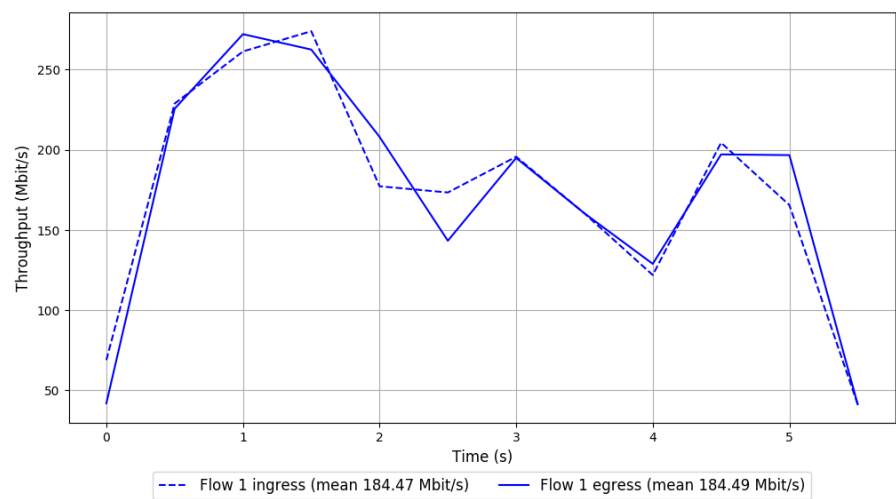


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 13:26:50

End at: 2018-04-10 13:27:20

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

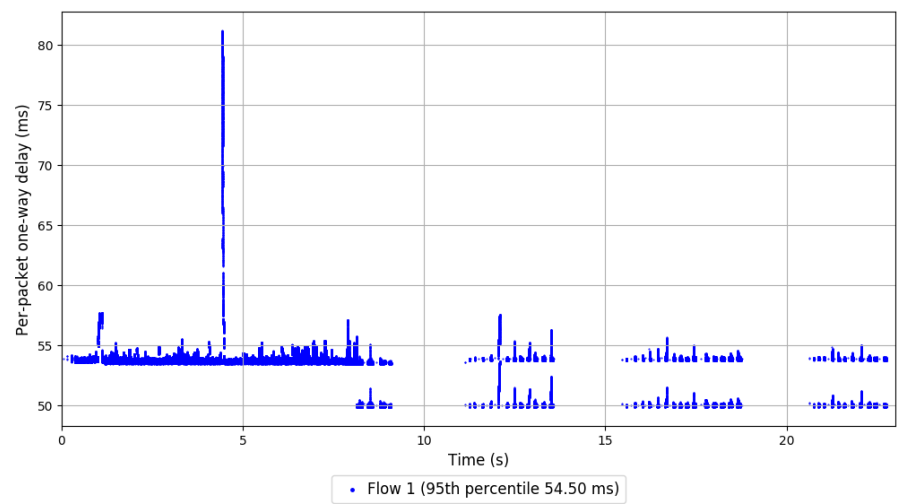
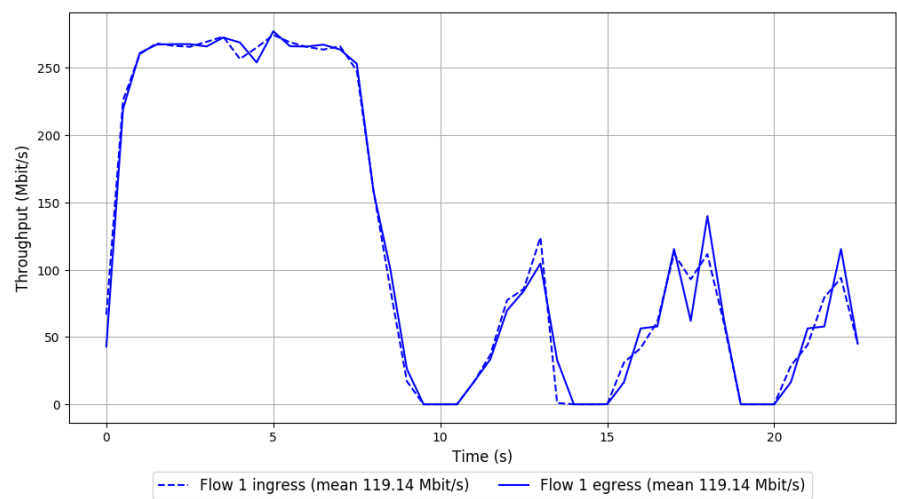


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 13:41:04

End at: 2018-04-10 13:41:34

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

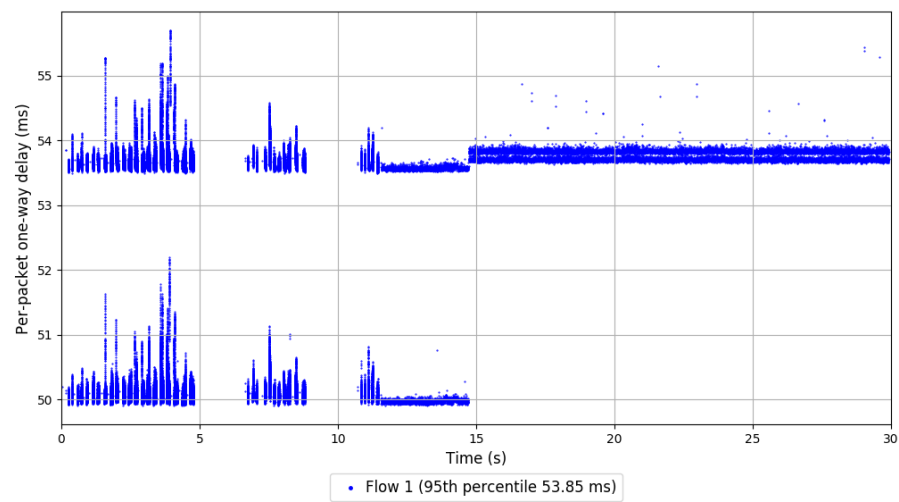
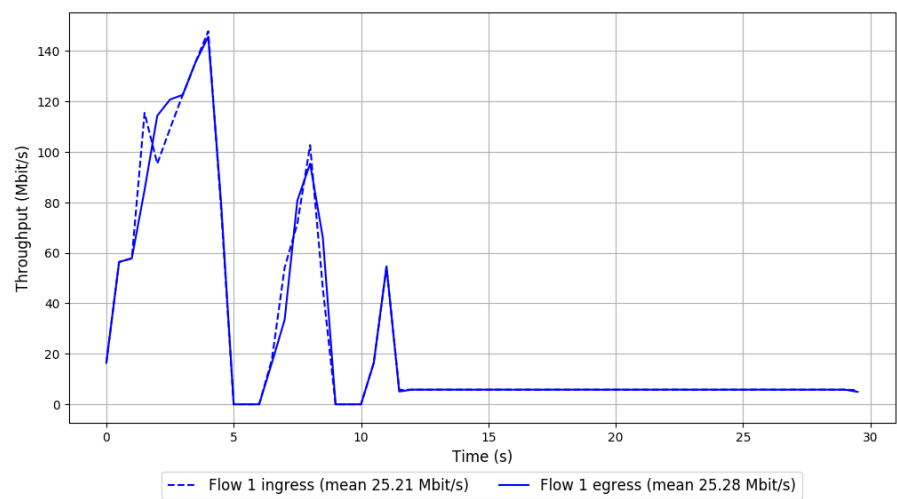


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 13:55:21
End at: 2018-04-10 13:55:51

# Below is generated by plot.py at 2018-04-10 17:04:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 53.849 ms
Loss rate: 0.08%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 11:44:45

End at: 2018-04-10 11:45:15

Below is generated by plot.py at 2018-04-10 17:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 54.616 ms

Loss rate: 0.17%

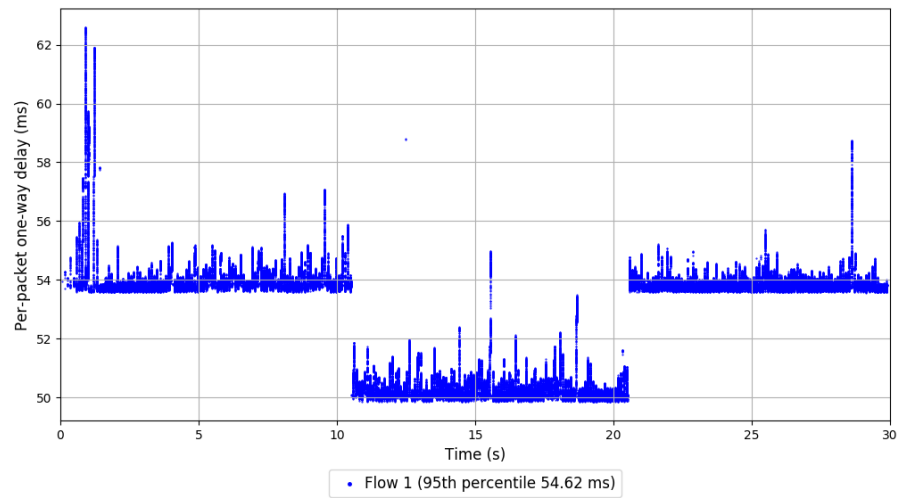
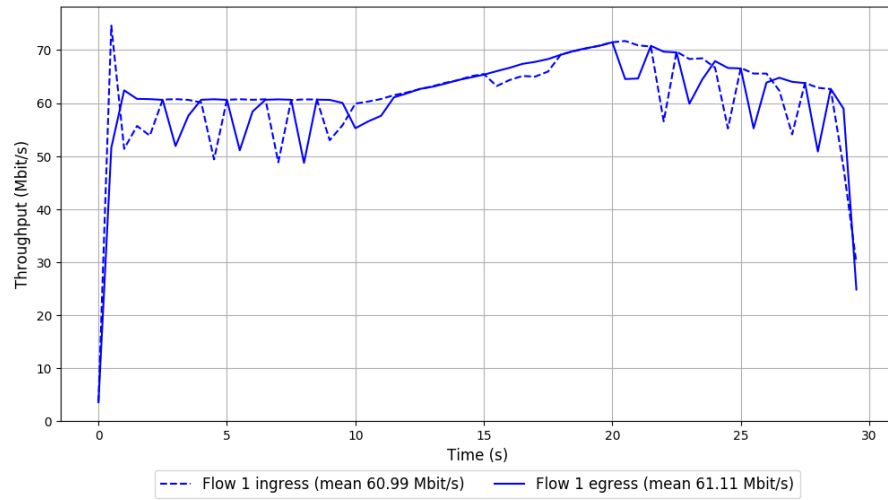
-- Flow 1:

Average throughput: 61.11 Mbit/s

95th percentile per-packet one-way delay: 54.616 ms

Loss rate: 0.17%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 11:59:06

End at: 2018-04-10 11:59:36

Below is generated by plot.py at 2018-04-10 17:04:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 54.516 ms

Loss rate: 0.29%

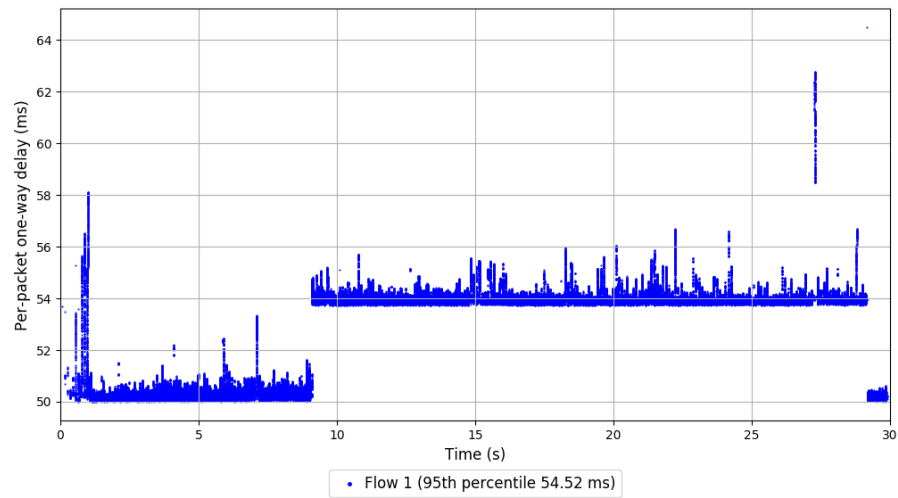
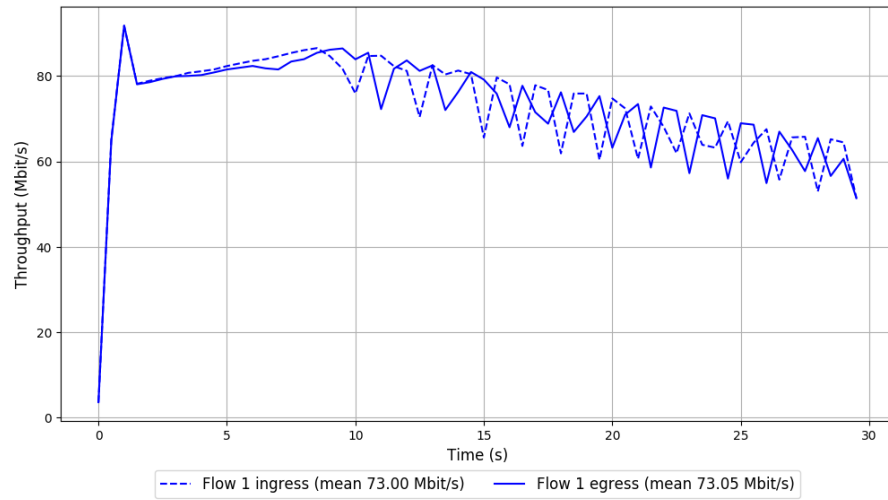
-- Flow 1:

Average throughput: 73.05 Mbit/s

95th percentile per-packet one-way delay: 54.516 ms

Loss rate: 0.29%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 12:13:26

End at: 2018-04-10 12:13:56

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 54.904 ms

Loss rate: 0.23%

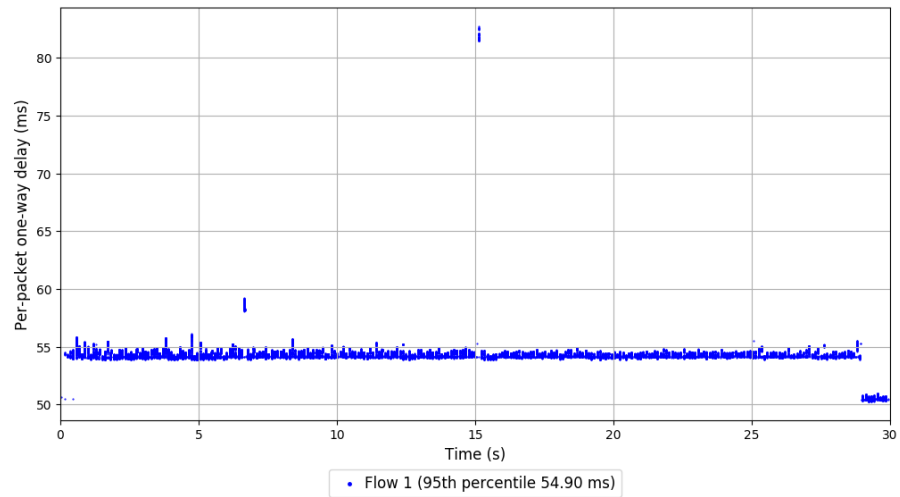
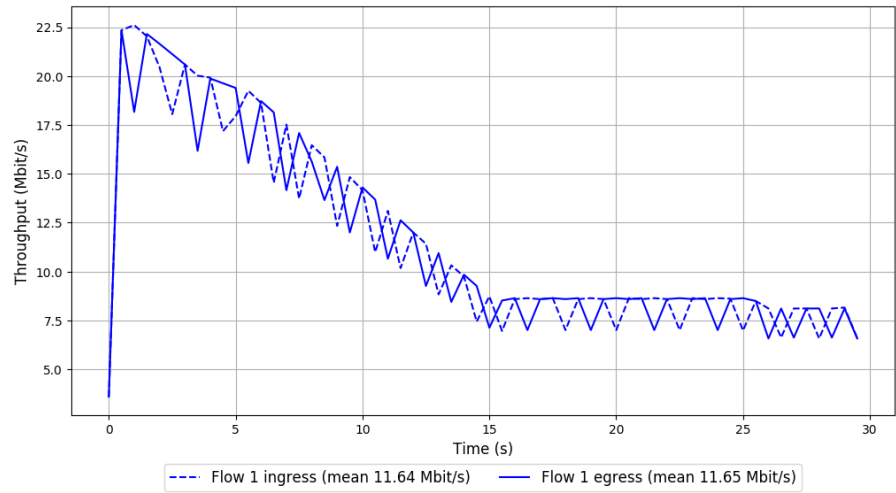
-- Flow 1:

Average throughput: 11.65 Mbit/s

95th percentile per-packet one-way delay: 54.904 ms

Loss rate: 0.23%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 12:27:40

End at: 2018-04-10 12:28:10

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 55.801 ms

Loss rate: 0.34%

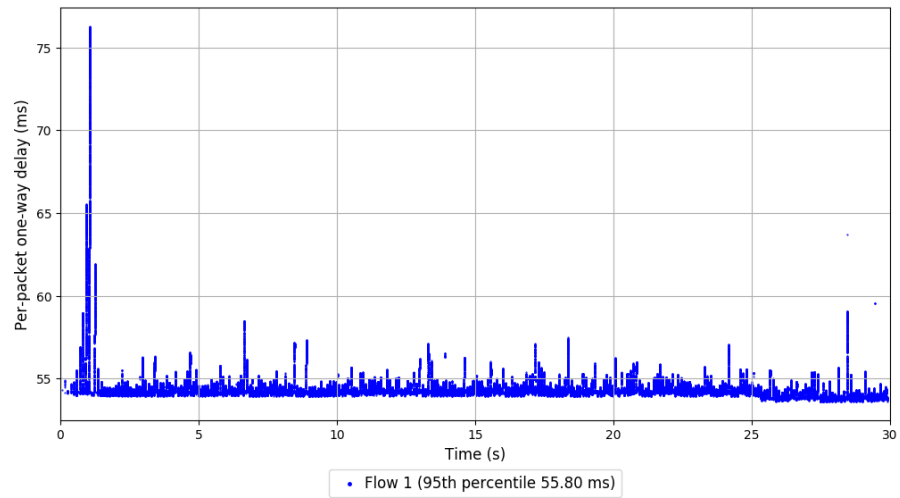
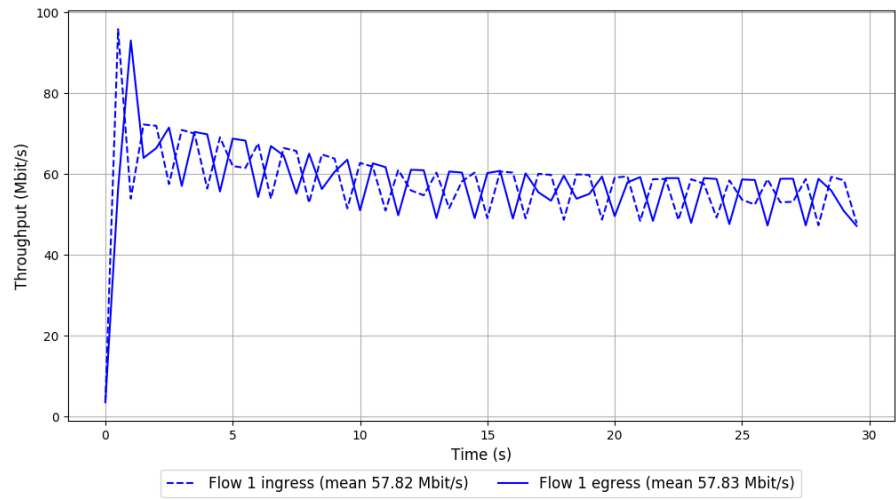
-- Flow 1:

Average throughput: 57.83 Mbit/s

95th percentile per-packet one-way delay: 55.801 ms

Loss rate: 0.34%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 12:41:30

End at: 2018-04-10 12:42:00

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.32 Mbit/s

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

Loss rate: 0.25%

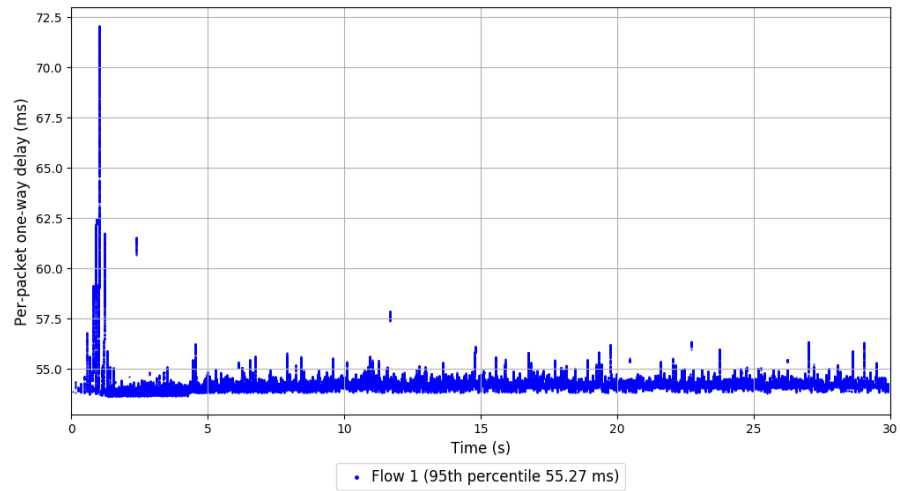
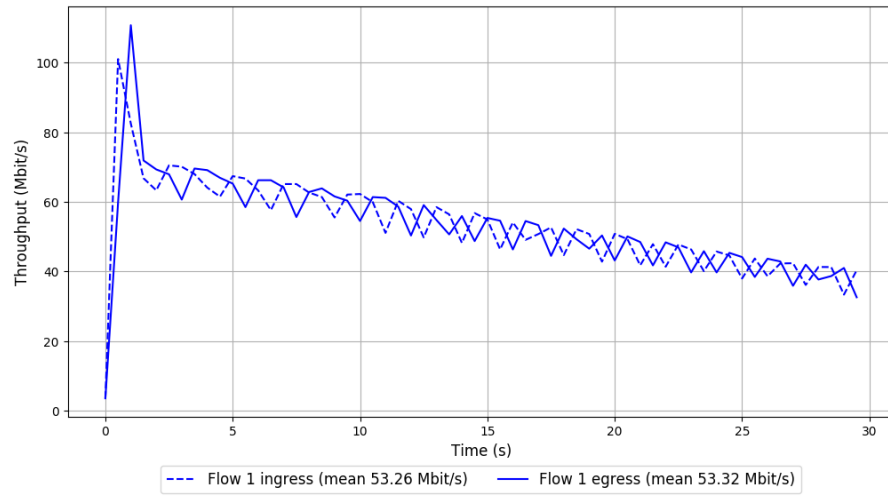
-- Flow 1:

Average throughput: 53.32 Mbit/s

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

Loss rate: 0.25%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 12:55:28

End at: 2018-04-10 12:55:58

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.05 Mbit/s

95th percentile per-packet one-way delay: 55.314 ms

Loss rate: 0.37%

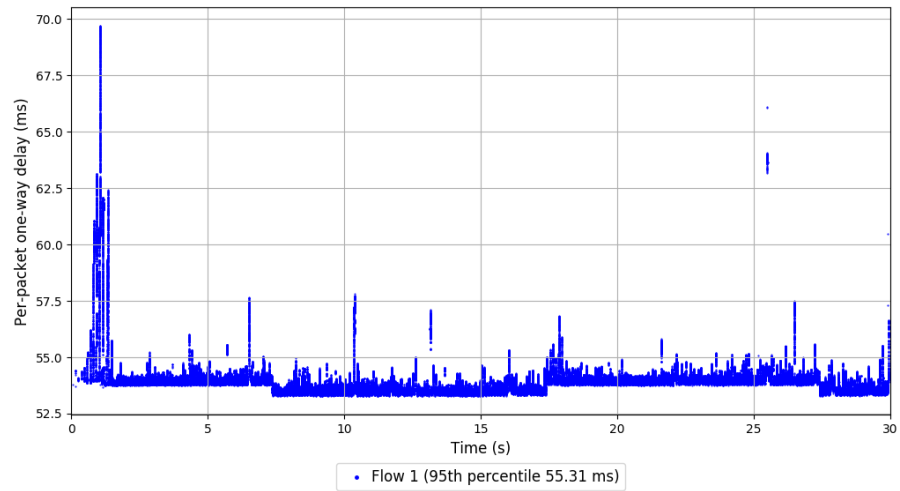
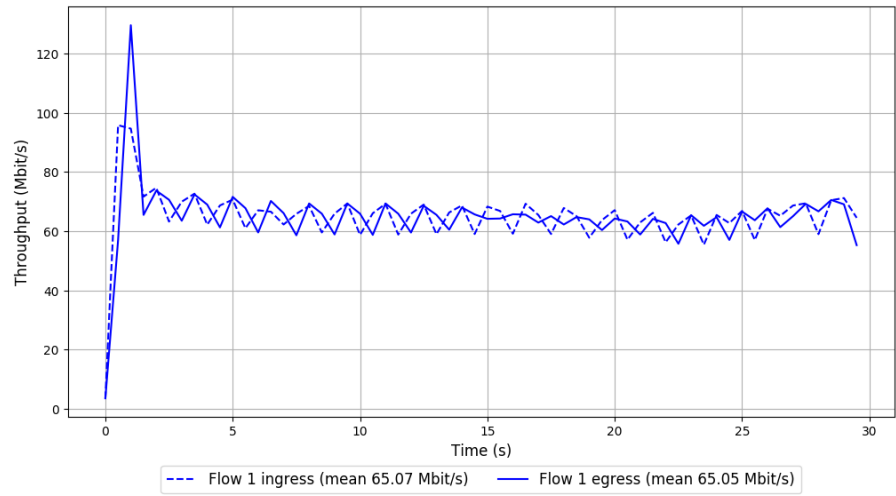
-- Flow 1:

Average throughput: 65.05 Mbit/s

95th percentile per-packet one-way delay: 55.314 ms

Loss rate: 0.37%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 13:09:32

End at: 2018-04-10 13:10:02

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 55.545 ms

Loss rate: 0.38%

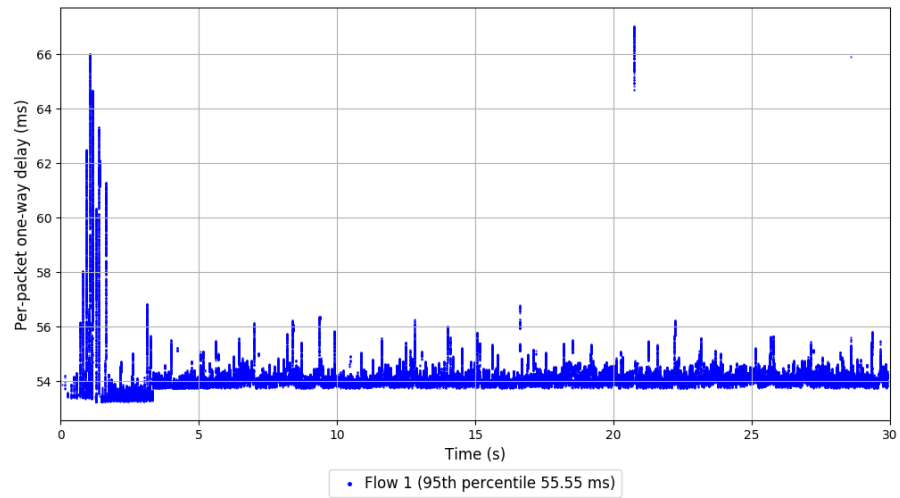
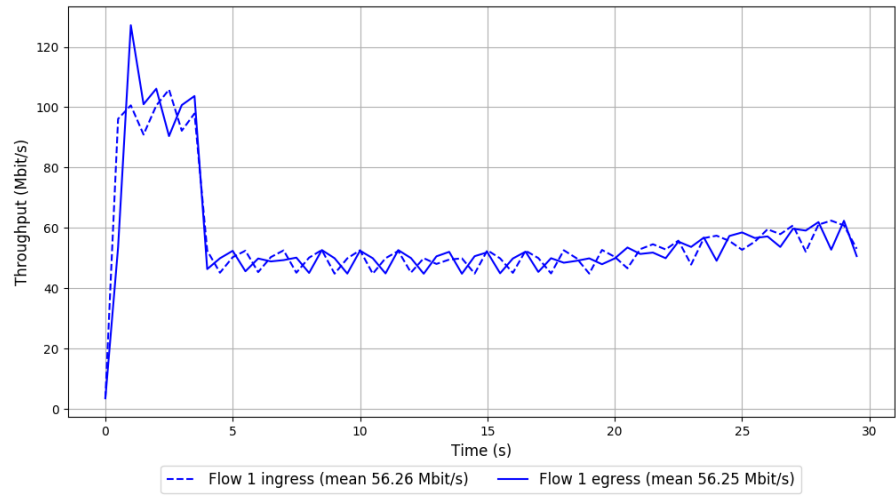
-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 55.545 ms

Loss rate: 0.38%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 13:23:33

End at: 2018-04-10 13:24:03

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 55.201 ms

Loss rate: 0.28%

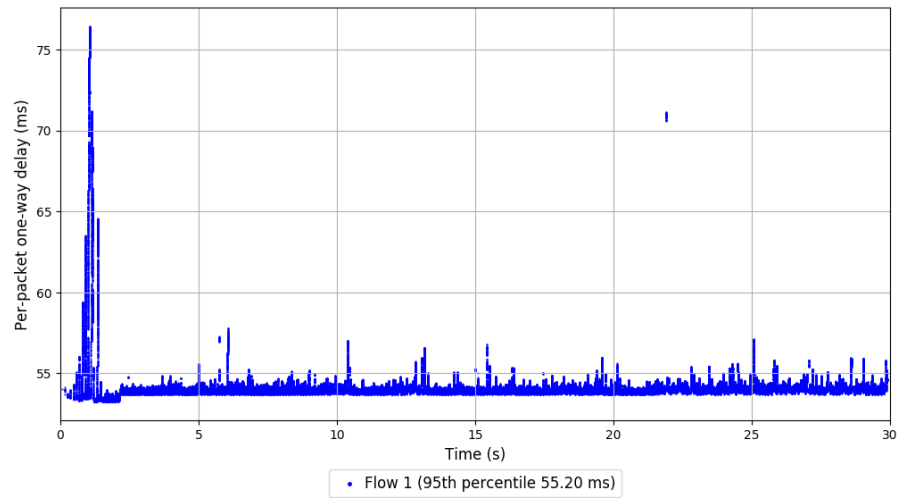
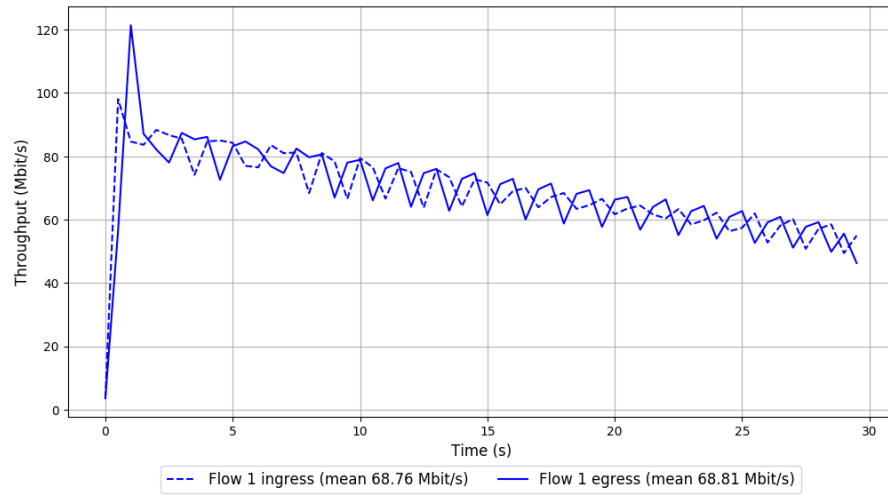
-- Flow 1:

Average throughput: 68.81 Mbit/s

95th percentile per-packet one-way delay: 55.201 ms

Loss rate: 0.28%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 13:37:45

End at: 2018-04-10 13:38:15

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.23 Mbit/s

95th percentile per-packet one-way delay: 55.272 ms

Loss rate: 0.38%

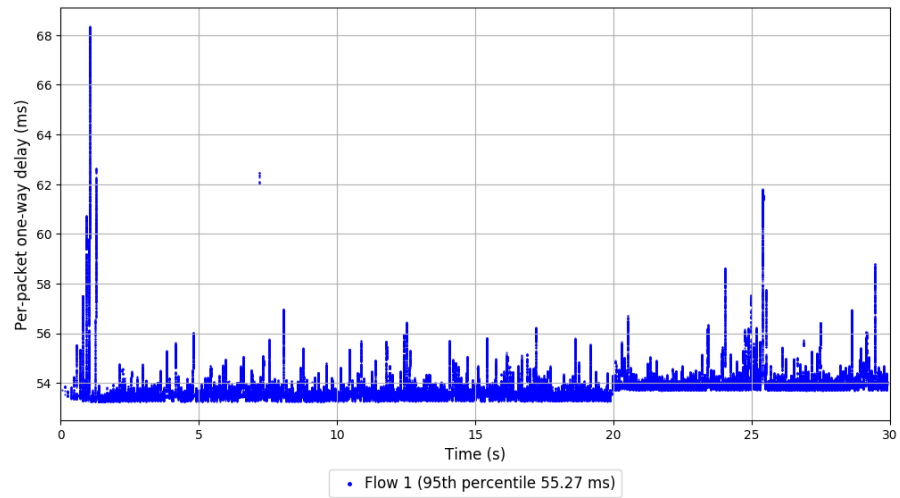
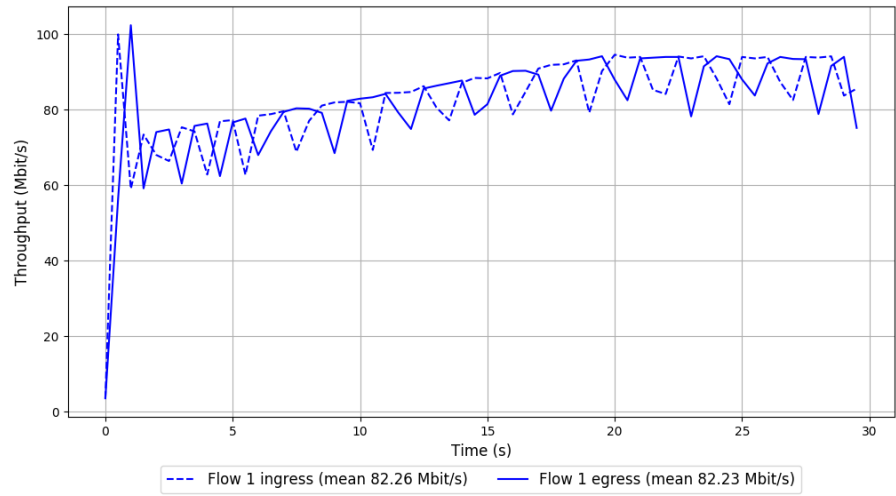
-- Flow 1:

Average throughput: 82.23 Mbit/s

95th percentile per-packet one-way delay: 55.272 ms

Loss rate: 0.38%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 13:51:58

End at: 2018-04-10 13:52:29

Below is generated by plot.py at 2018-04-10 17:04:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.43 Mbit/s

95th percentile per-packet one-way delay: 55.134 ms

Loss rate: 0.33%

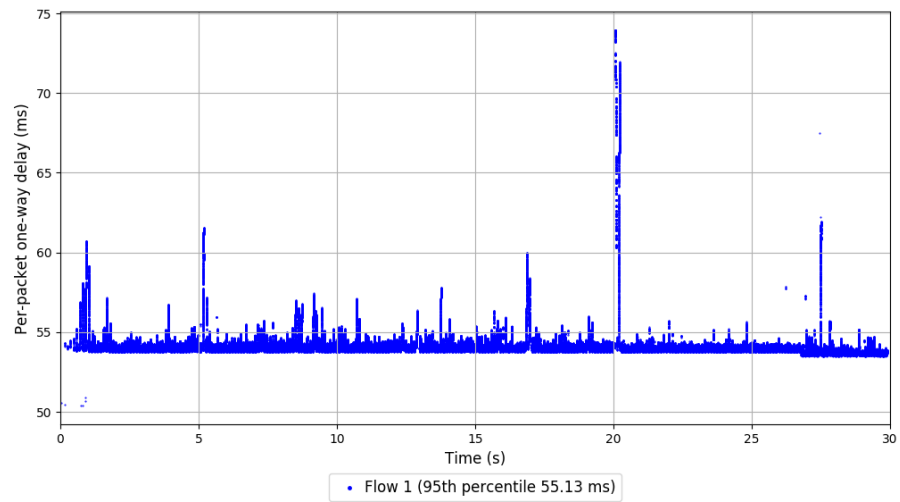
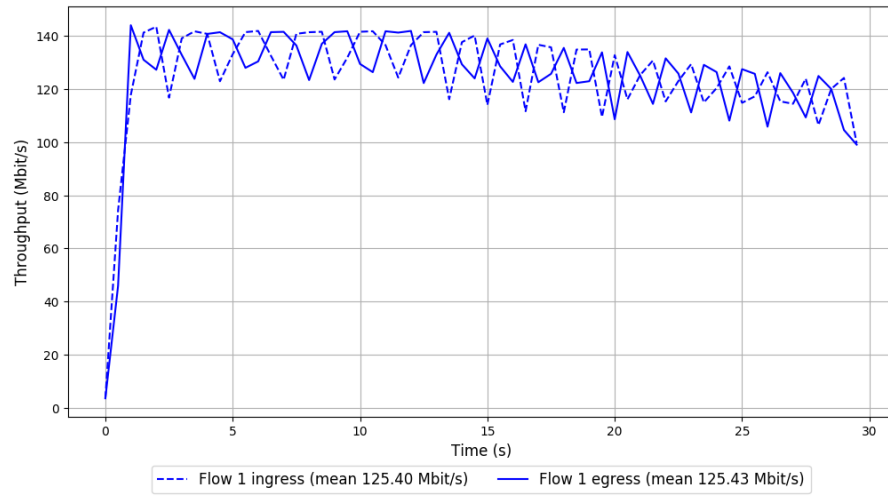
-- Flow 1:

Average throughput: 125.43 Mbit/s

95th percentile per-packet one-way delay: 55.134 ms

Loss rate: 0.33%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 11:54:16

End at: 2018-04-10 11:54:46

Below is generated by plot.py at 2018-04-10 17:05:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.30 Mbit/s

95th percentile per-packet one-way delay: 96.292 ms

Loss rate: 0.46%

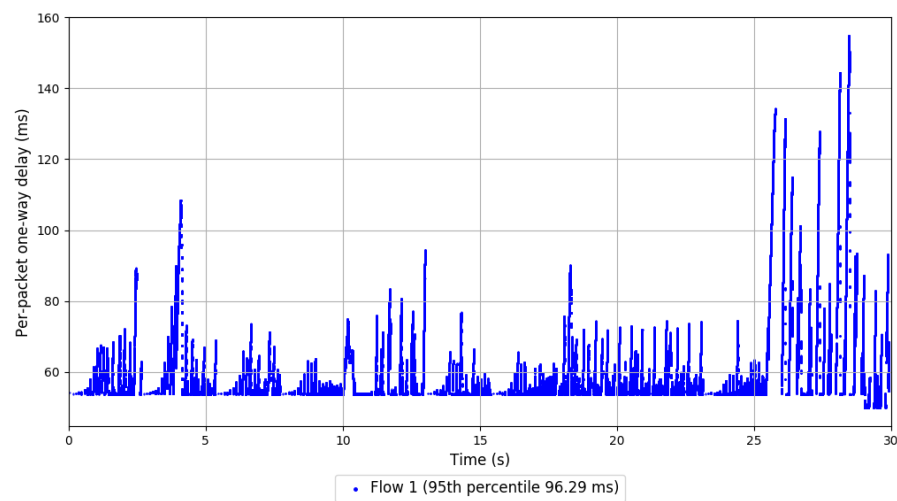
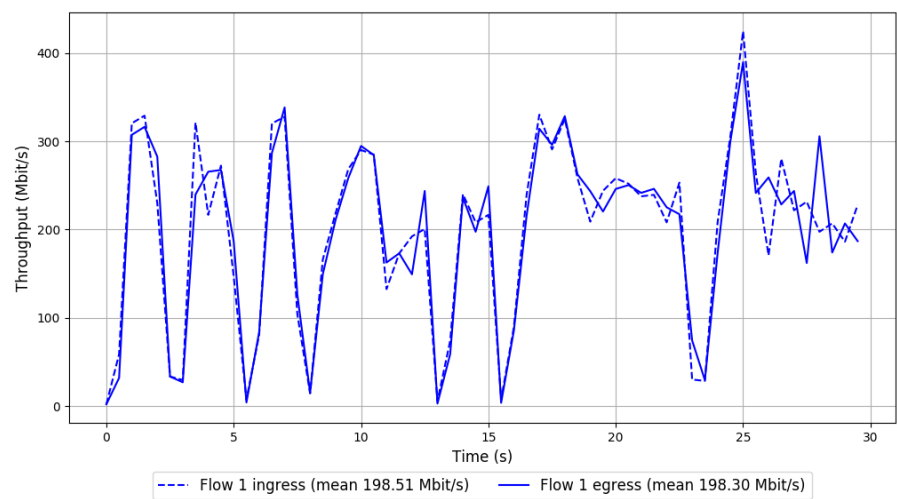
-- Flow 1:

Average throughput: 198.30 Mbit/s

95th percentile per-packet one-way delay: 96.292 ms

Loss rate: 0.46%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 12:08:38

End at: 2018-04-10 12:09:08

Below is generated by plot.py at 2018-04-10 17:05:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.43 Mbit/s

95th percentile per-packet one-way delay: 77.346 ms

Loss rate: 0.45%

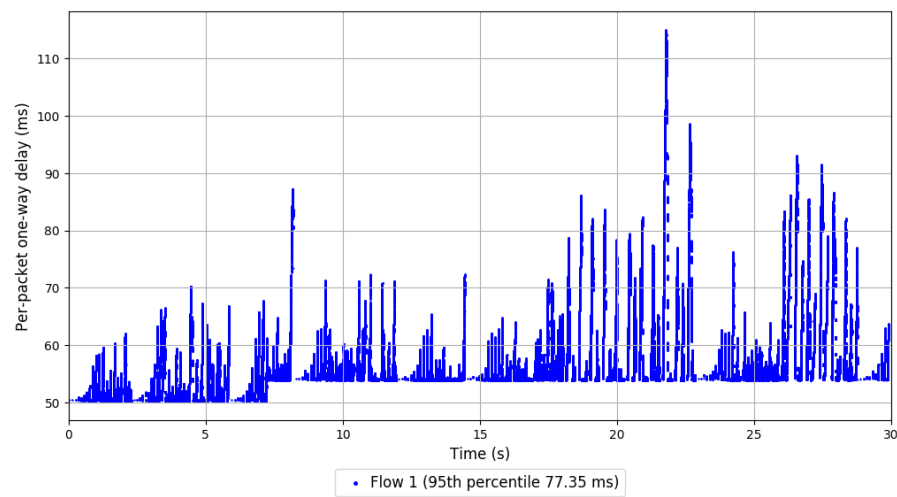
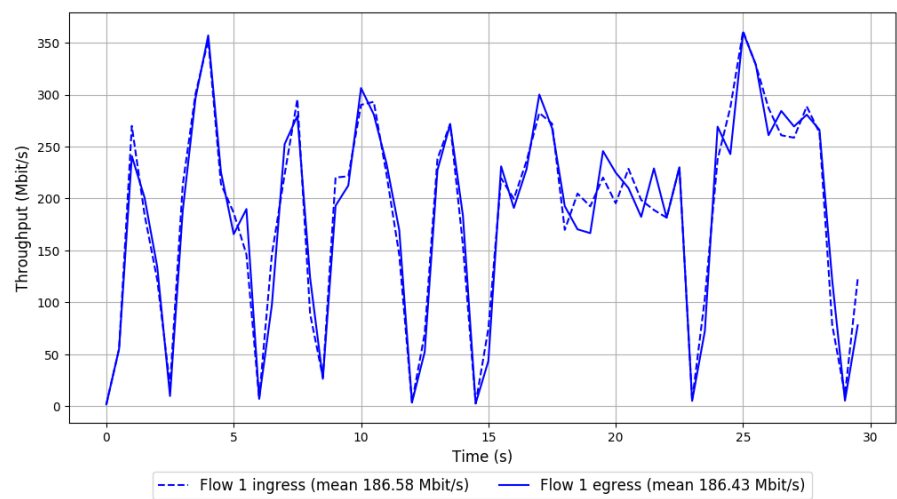
-- Flow 1:

Average throughput: 186.43 Mbit/s

95th percentile per-packet one-way delay: 77.346 ms

Loss rate: 0.45%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 12:22:53

End at: 2018-04-10 12:23:23

Below is generated by plot.py at 2018-04-10 17:05:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.24 Mbit/s

95th percentile per-packet one-way delay: 100.425 ms

Loss rate: 0.91%

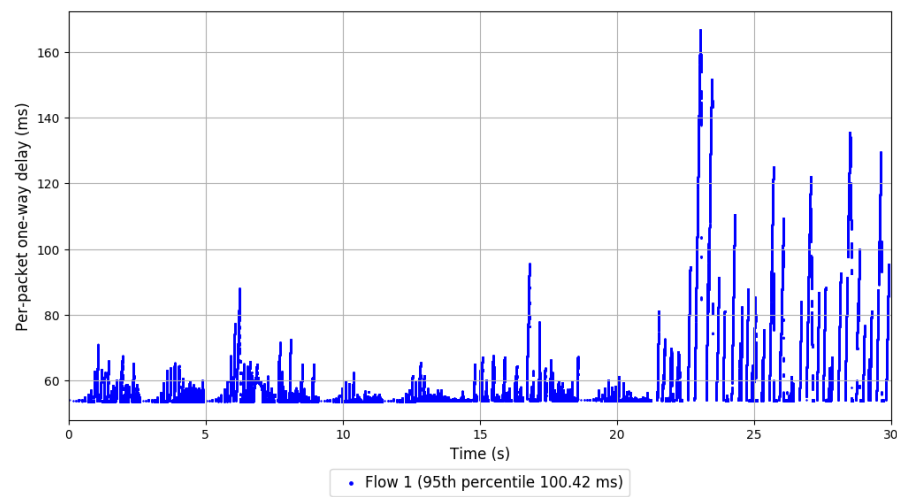
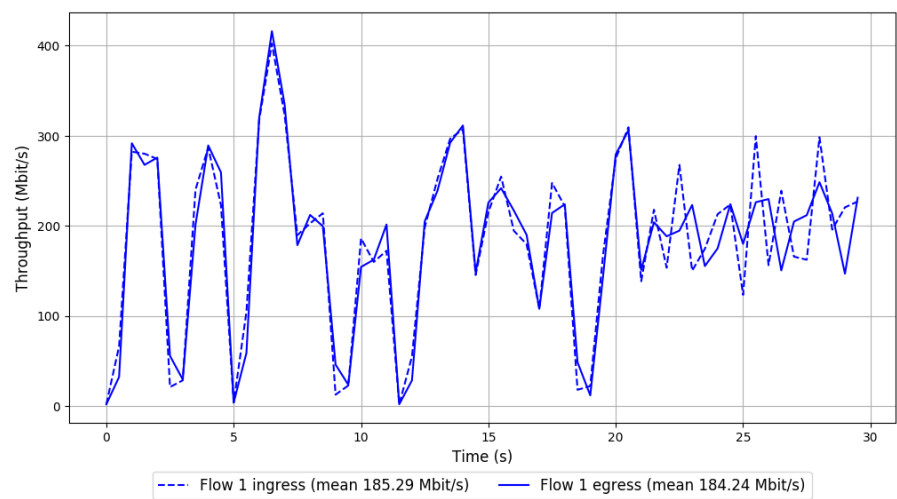
-- Flow 1:

Average throughput: 184.24 Mbit/s

95th percentile per-packet one-way delay: 100.425 ms

Loss rate: 0.91%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 12:36:53

End at: 2018-04-10 12:37:23

Below is generated by plot.py at 2018-04-10 17:05:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.25 Mbit/s

95th percentile per-packet one-way delay: 81.791 ms

Loss rate: 0.60%

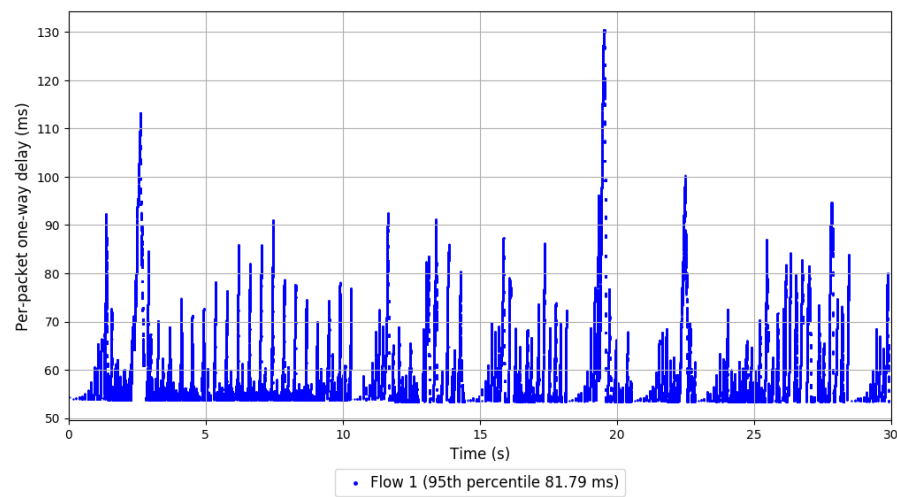
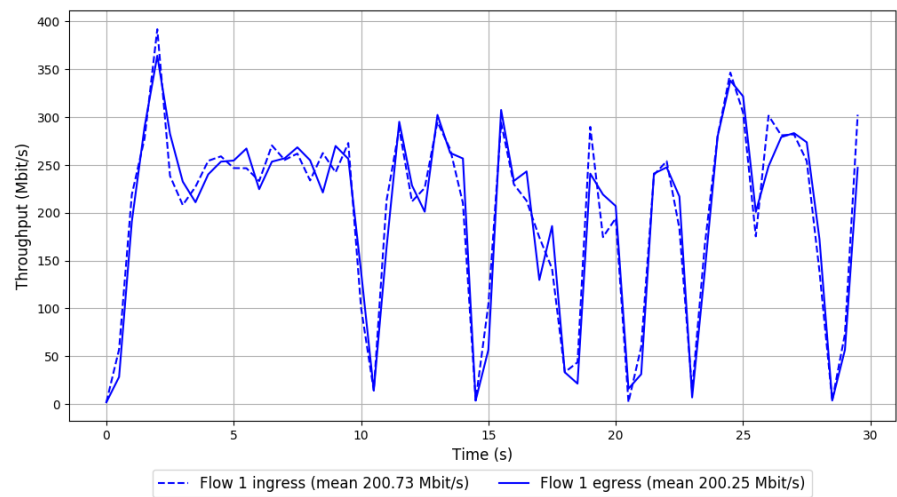
-- Flow 1:

Average throughput: 200.25 Mbit/s

95th percentile per-packet one-way delay: 81.791 ms

Loss rate: 0.60%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 12:50:37

End at: 2018-04-10 12:51:07

Below is generated by plot.py at 2018-04-10 17:06:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.06 Mbit/s

95th percentile per-packet one-way delay: 94.055 ms

Loss rate: 0.65%

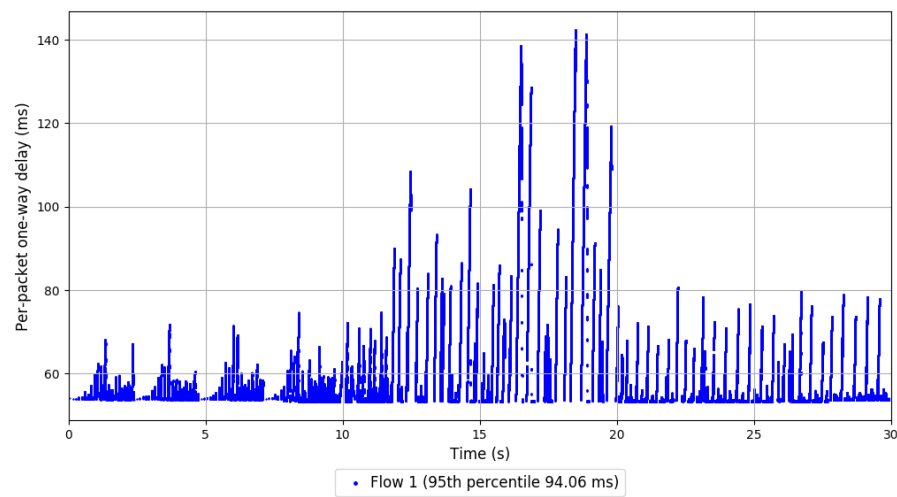
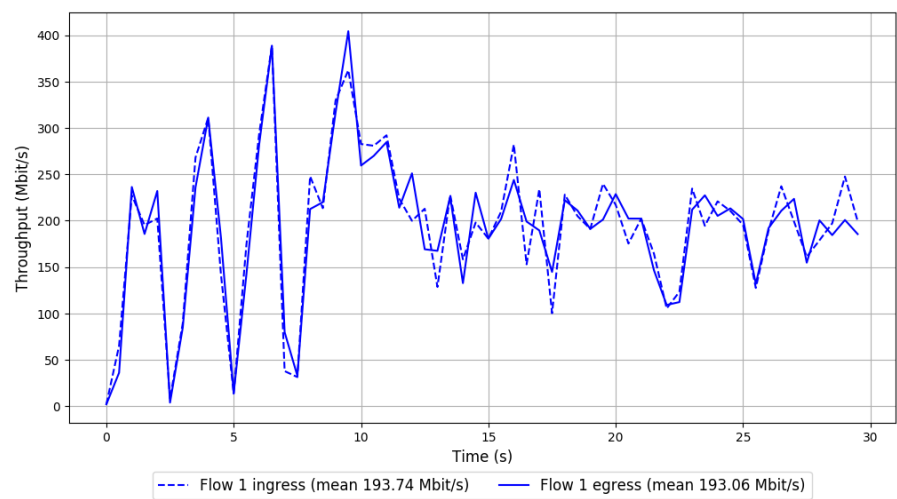
-- Flow 1:

Average throughput: 193.06 Mbit/s

95th percentile per-packet one-way delay: 94.055 ms

Loss rate: 0.65%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 13:04:42

End at: 2018-04-10 13:05:12

Below is generated by plot.py at 2018-04-10 17:07:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.19 Mbit/s

95th percentile per-packet one-way delay: 86.876 ms

Loss rate: 0.00%

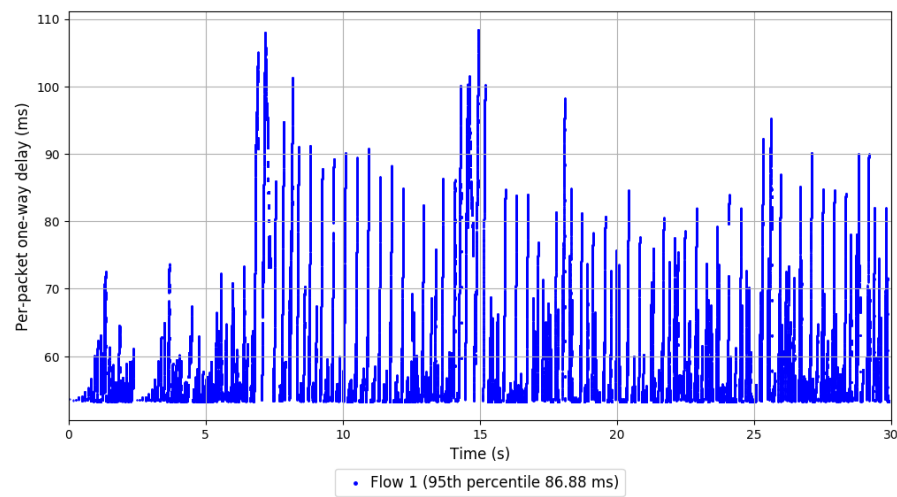
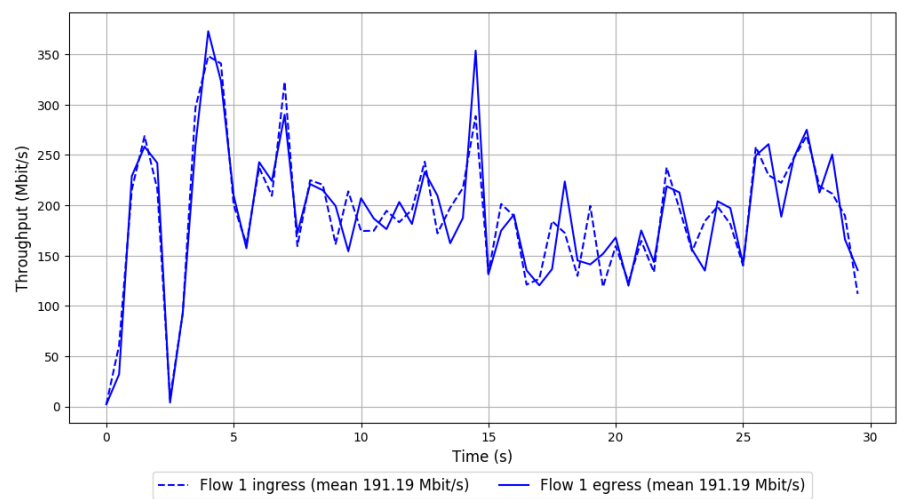
-- Flow 1:

Average throughput: 191.19 Mbit/s

95th percentile per-packet one-way delay: 86.876 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 13:18:43

End at: 2018-04-10 13:19:13

Below is generated by plot.py at 2018-04-10 17:07:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.44 Mbit/s

95th percentile per-packet one-way delay: 76.548 ms

Loss rate: 0.53%

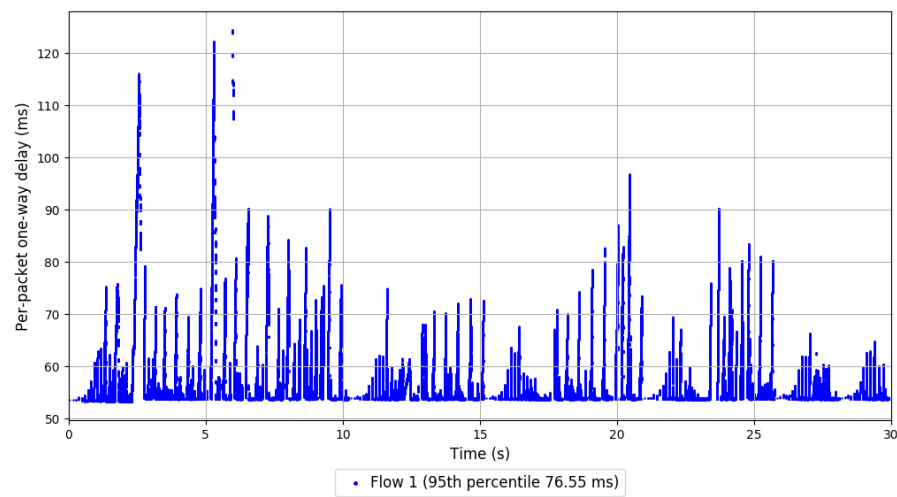
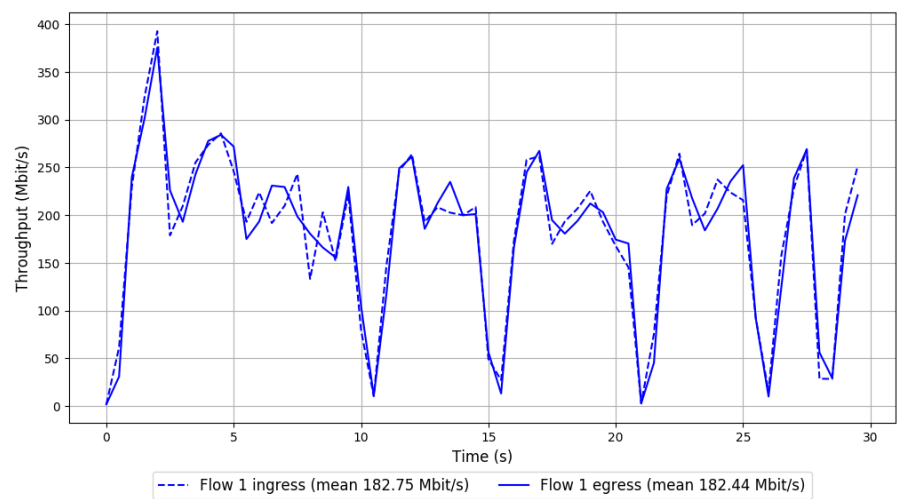
-- Flow 1:

Average throughput: 182.44 Mbit/s

95th percentile per-packet one-way delay: 76.548 ms

Loss rate: 0.53%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 13:32:55

End at: 2018-04-10 13:33:25

Below is generated by plot.py at 2018-04-10 17:08:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.91 Mbit/s

95th percentile per-packet one-way delay: 119.315 ms

Loss rate: 0.28%

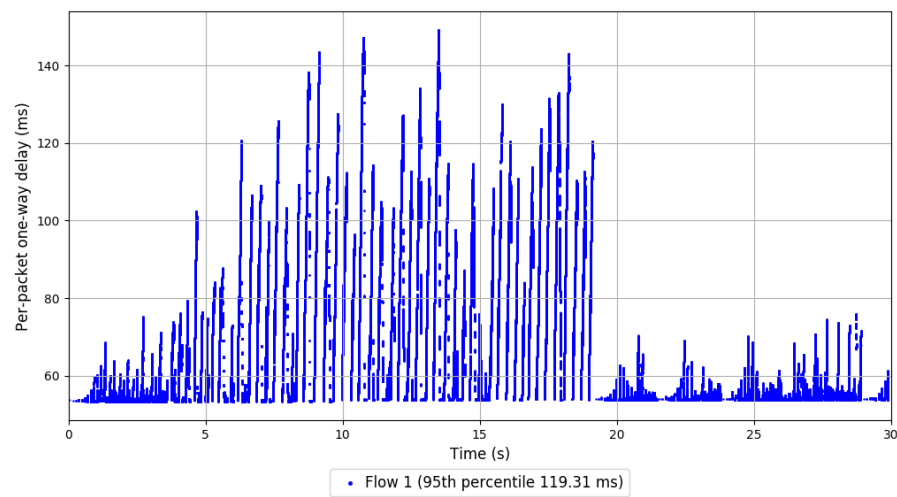
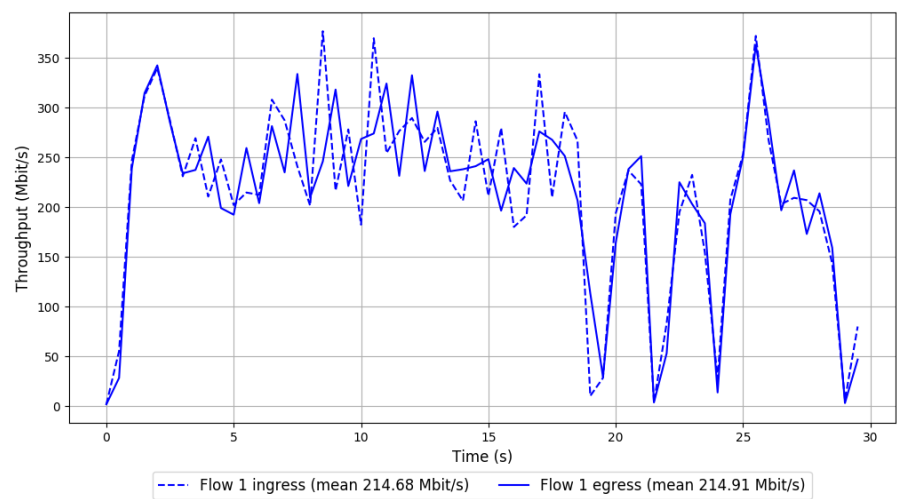
-- Flow 1:

Average throughput: 214.91 Mbit/s

95th percentile per-packet one-way delay: 119.315 ms

Loss rate: 0.28%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-10 13:47:09

End at: 2018-04-10 13:47:39

Below is generated by plot.py at 2018-04-10 17:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.80 Mbit/s

95th percentile per-packet one-way delay: 90.627 ms

Loss rate: 0.49%

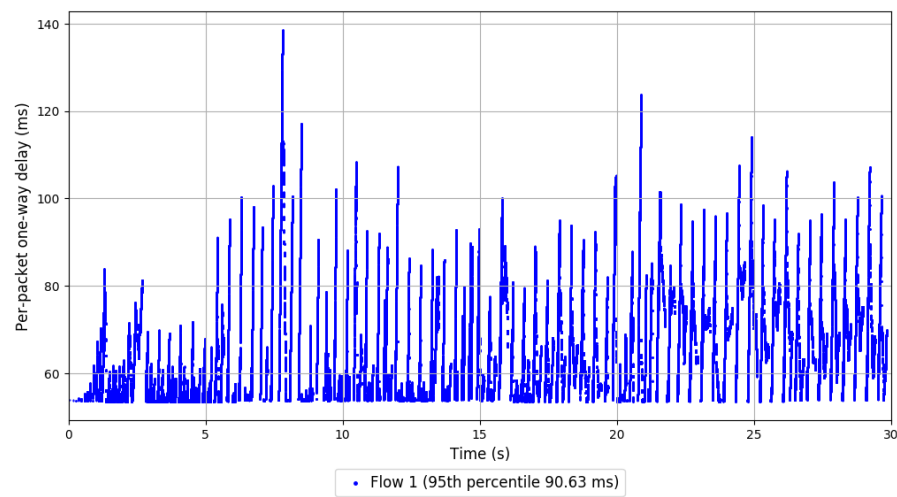
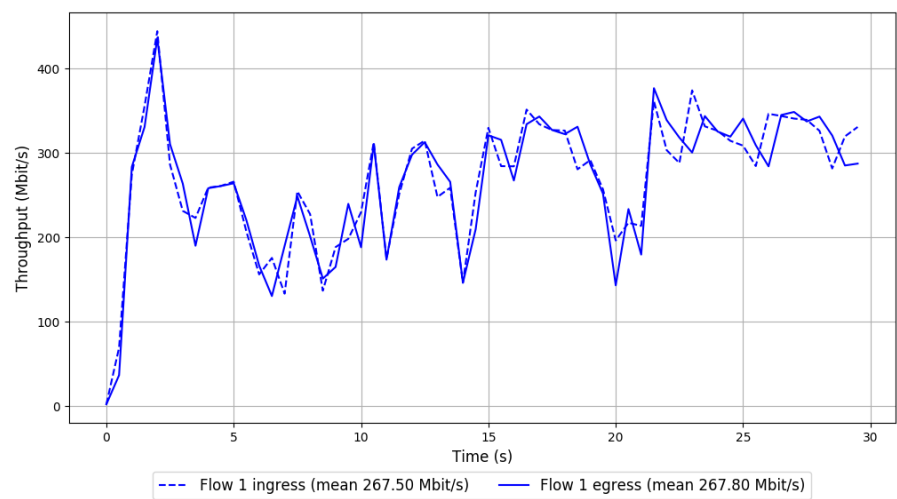
-- Flow 1:

Average throughput: 267.80 Mbit/s

95th percentile per-packet one-way delay: 90.627 ms

Loss rate: 0.49%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-10 14:01:28

End at: 2018-04-10 14:01:58

Below is generated by plot.py at 2018-04-10 17:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.68 Mbit/s

95th percentile per-packet one-way delay: 99.815 ms

Loss rate: 0.40%

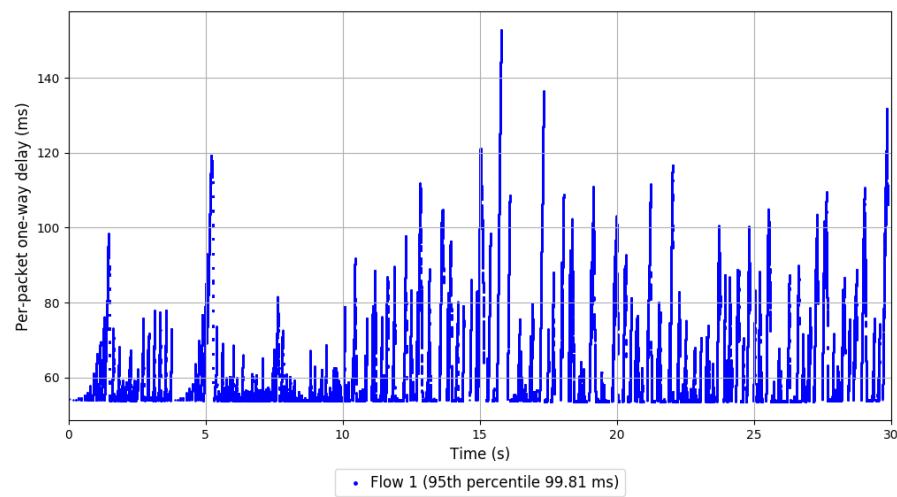
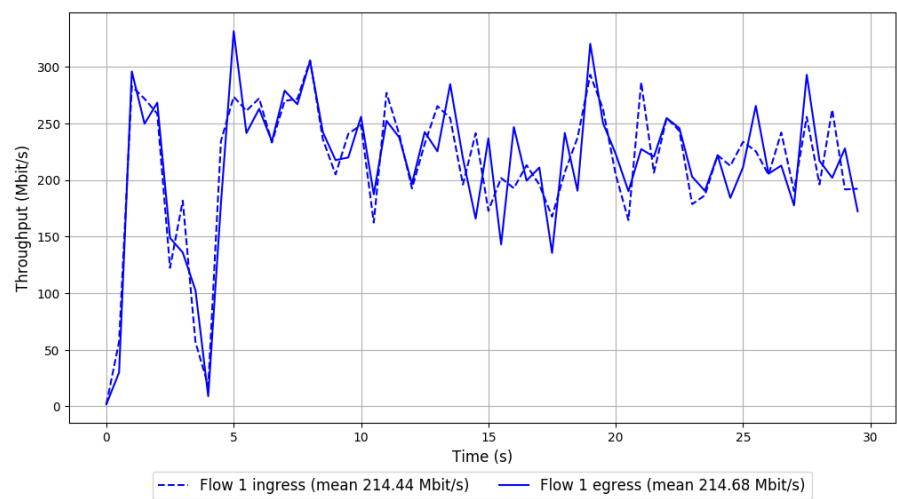
-- Flow 1:

Average throughput: 214.68 Mbit/s

95th percentile per-packet one-way delay: 99.815 ms

Loss rate: 0.40%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 11:52:29

End at: 2018-04-10 11:52:59

Below is generated by plot.py at 2018-04-10 17:10:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.02 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.32%

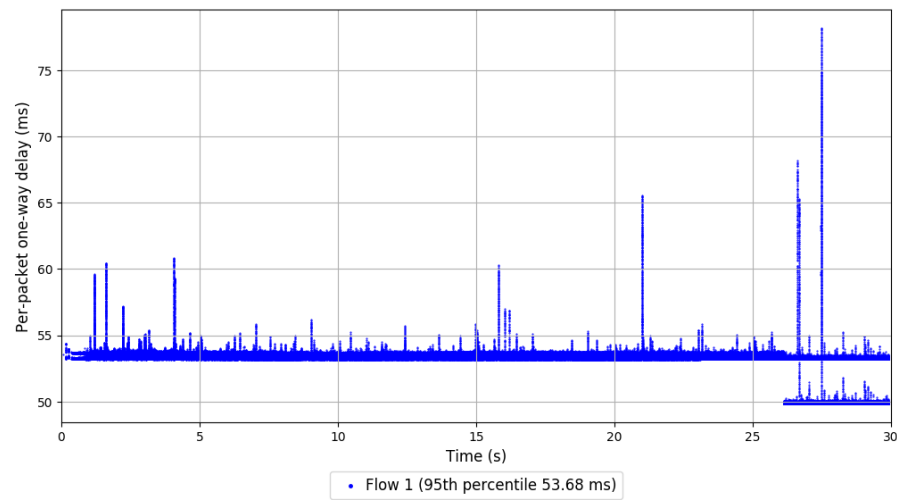
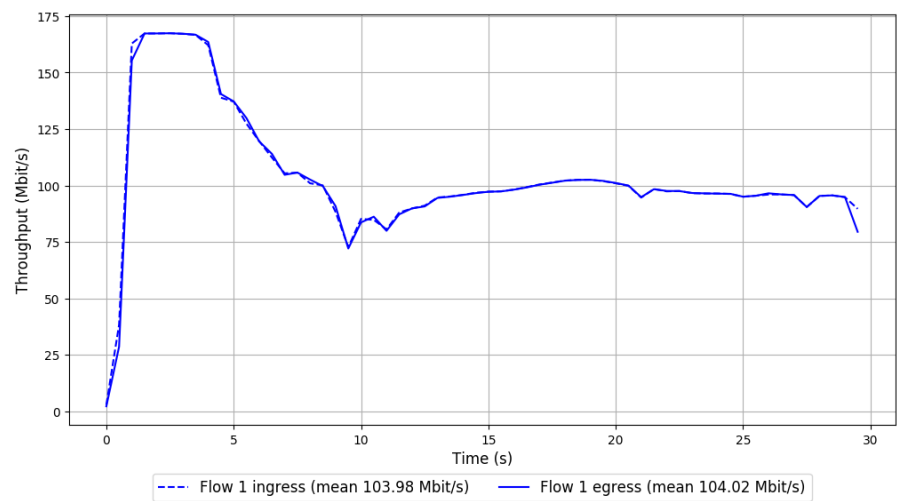
-- Flow 1:

Average throughput: 104.02 Mbit/s

95th percentile per-packet one-way delay: 53.684 ms

Loss rate: 0.32%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-10 12:06:38

End at: 2018-04-10 12:07:08

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.06 Mbit/s

95th percentile per-packet one-way delay: 259.871 ms

Loss rate: 26.43%

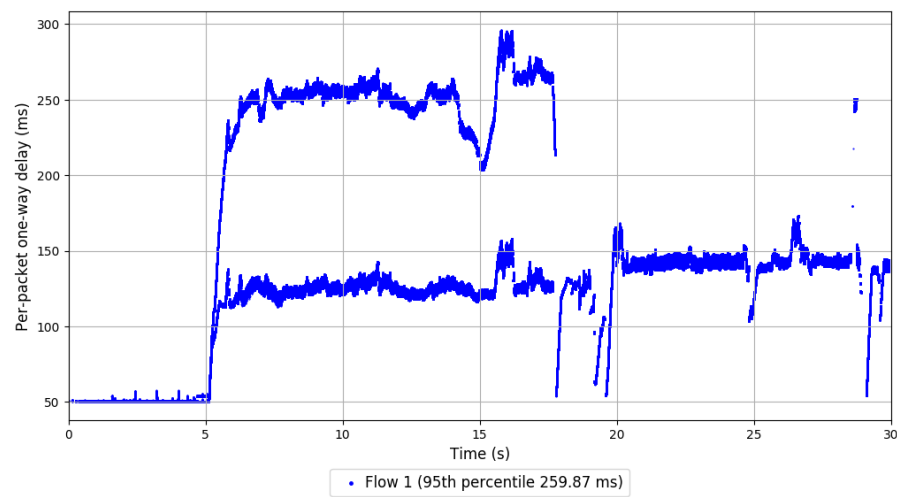
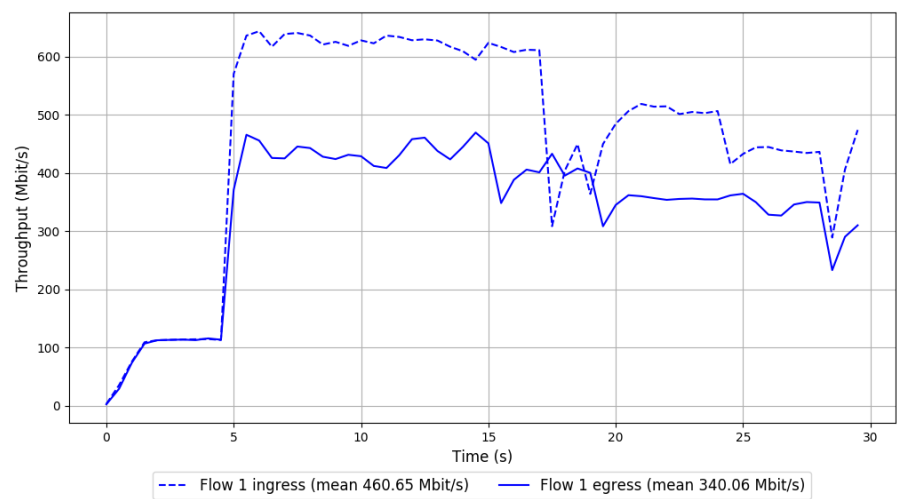
-- Flow 1:

Average throughput: 340.06 Mbit/s

95th percentile per-packet one-way delay: 259.871 ms

Loss rate: 26.43%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-10 12:21:07

End at: 2018-04-10 12:21:37

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 54.102 ms

Loss rate: 0.24%

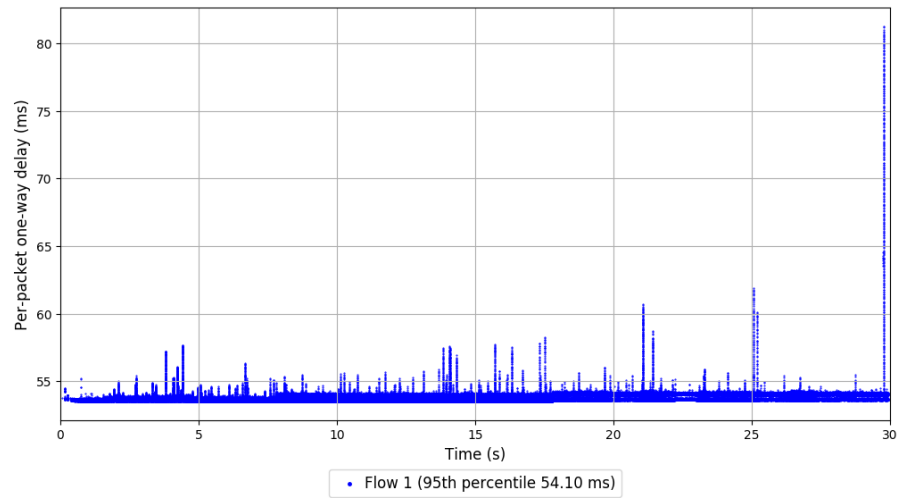
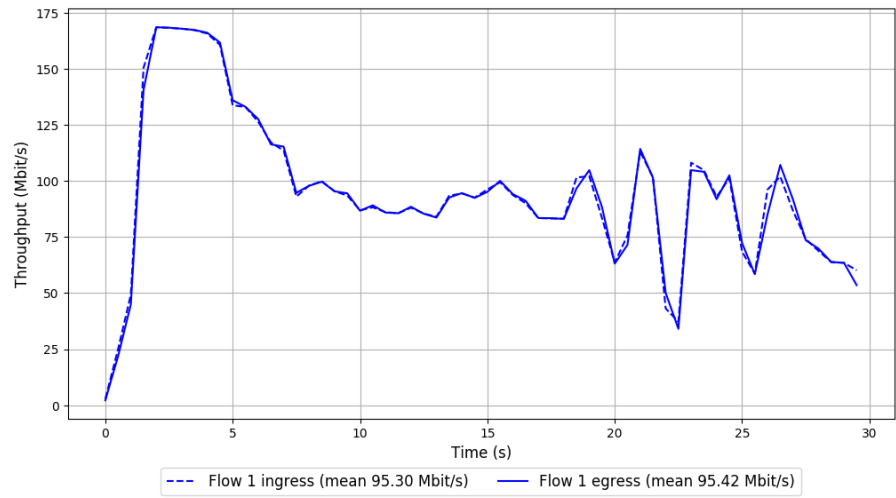
-- Flow 1:

Average throughput: 95.42 Mbit/s

95th percentile per-packet one-way delay: 54.102 ms

Loss rate: 0.24%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 12:35:12

End at: 2018-04-10 12:35:42

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.07 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.36%

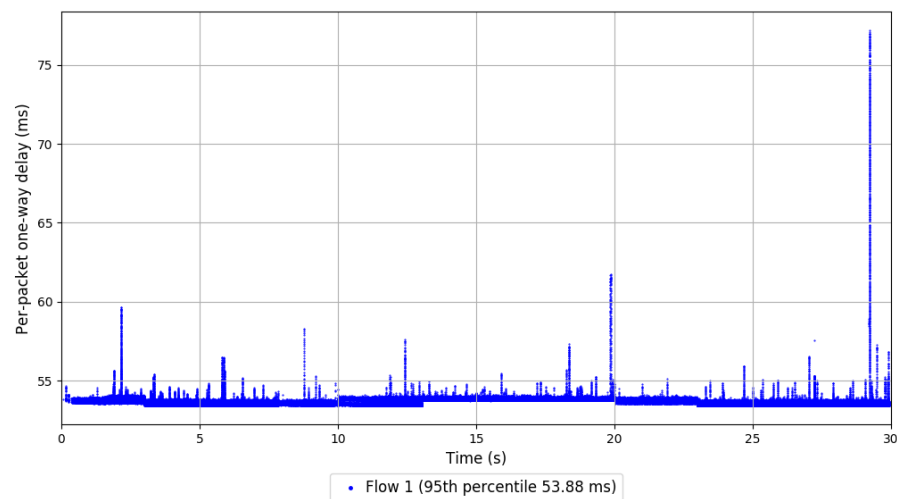
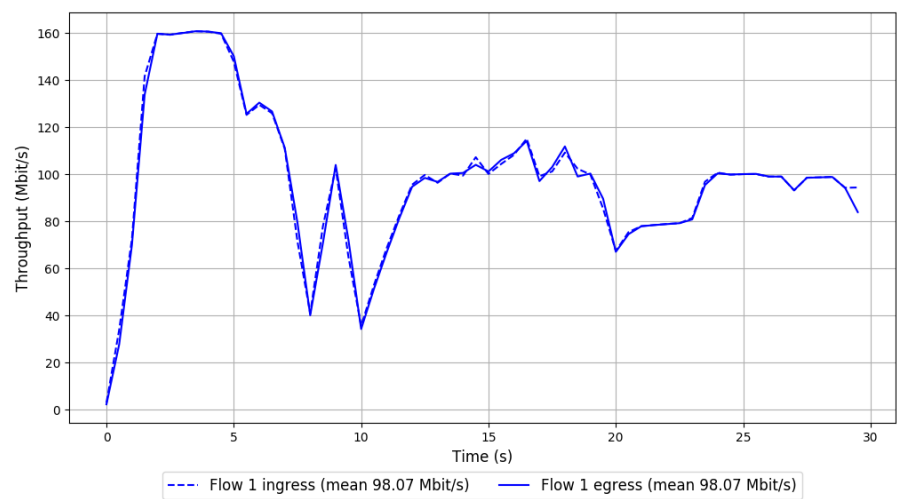
-- Flow 1:

Average throughput: 98.07 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.36%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 12:48:57

End at: 2018-04-10 12:49:27

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.42%

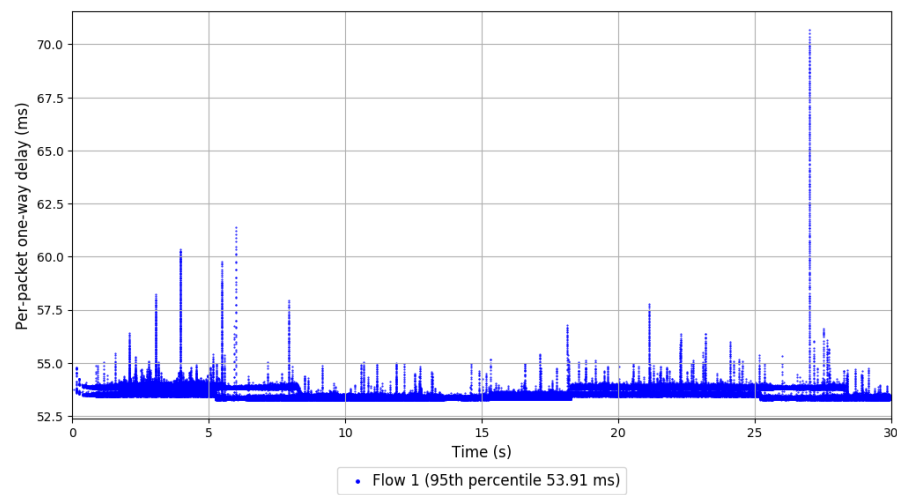
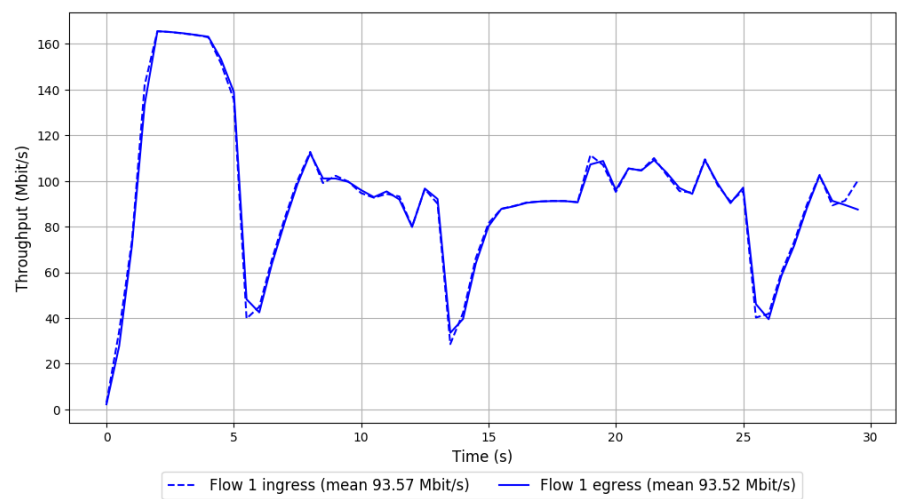
-- Flow 1:

Average throughput: 93.52 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.42%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 13:02:57

End at: 2018-04-10 13:03:27

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.17%

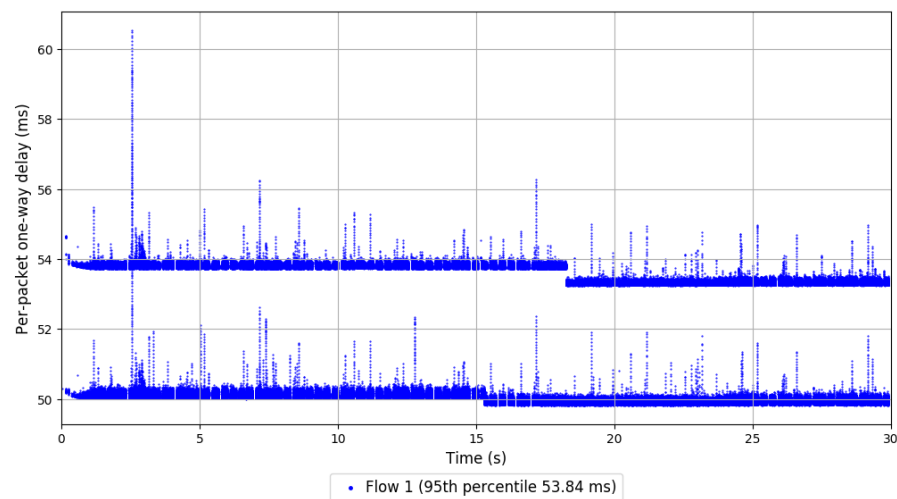
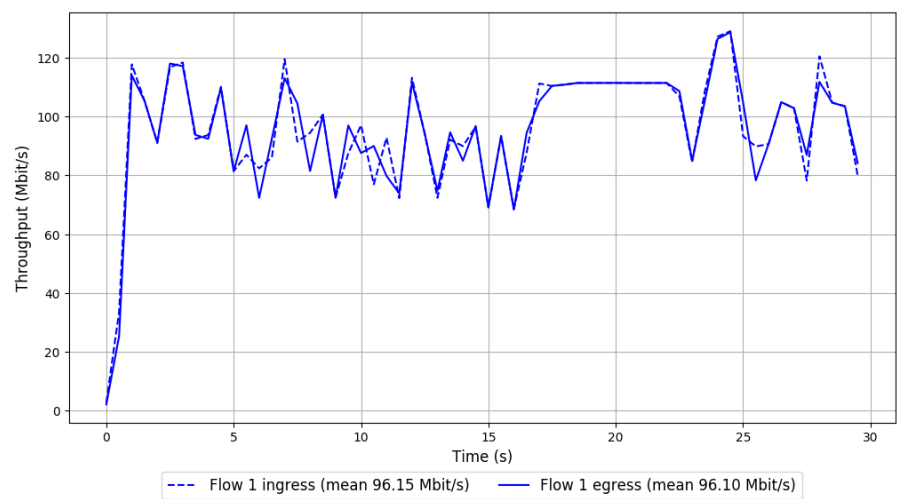
-- Flow 1:

Average throughput: 96.10 Mbit/s

95th percentile per-packet one-way delay: 53.845 ms

Loss rate: 0.17%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 13:16:59

End at: 2018-04-10 13:17:29

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.36%

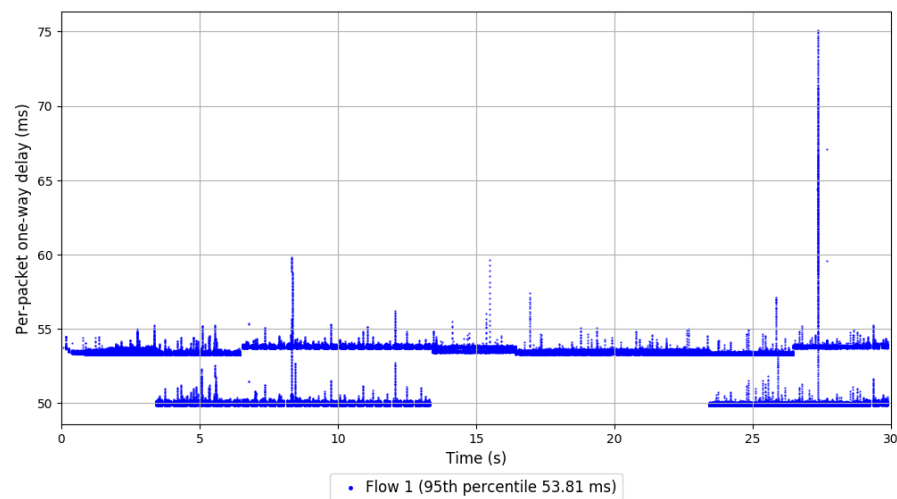
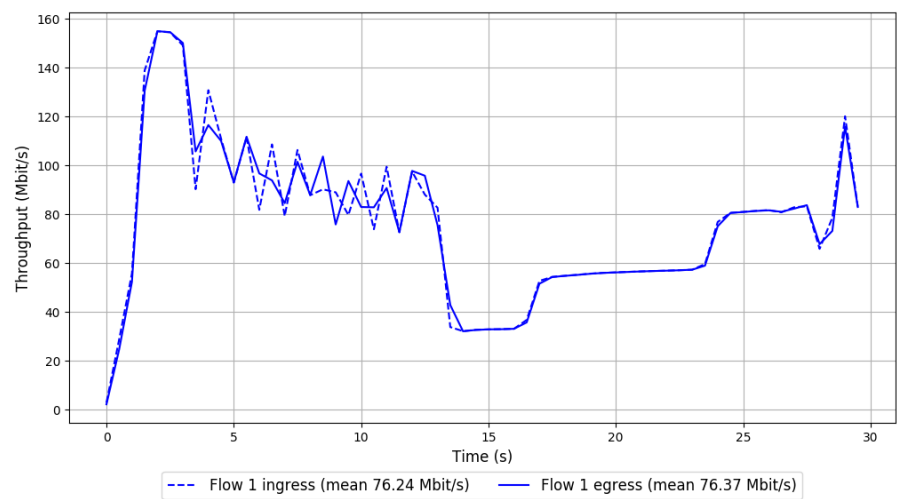
-- Flow 1:

Average throughput: 76.37 Mbit/s

95th percentile per-packet one-way delay: 53.812 ms

Loss rate: 0.36%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 13:31:05

End at: 2018-04-10 13:31:35

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.47 Mbit/s

95th percentile per-packet one-way delay: 270.796 ms

Loss rate: 29.02%

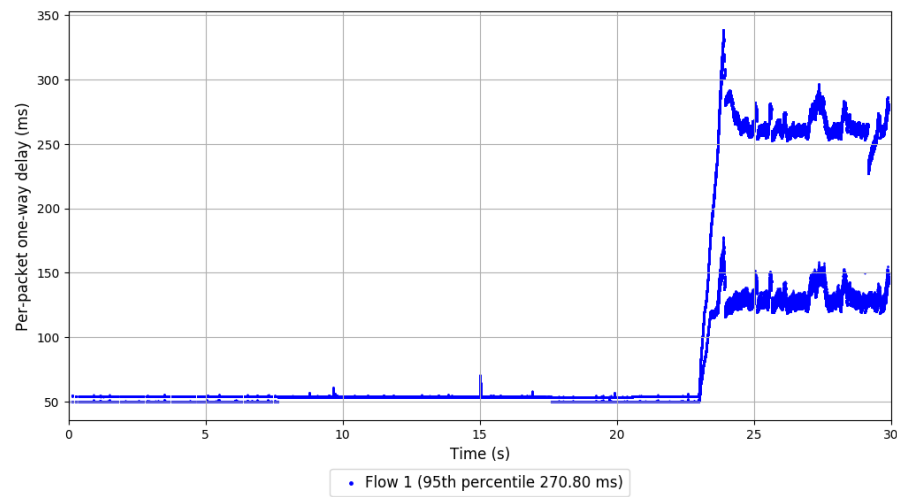
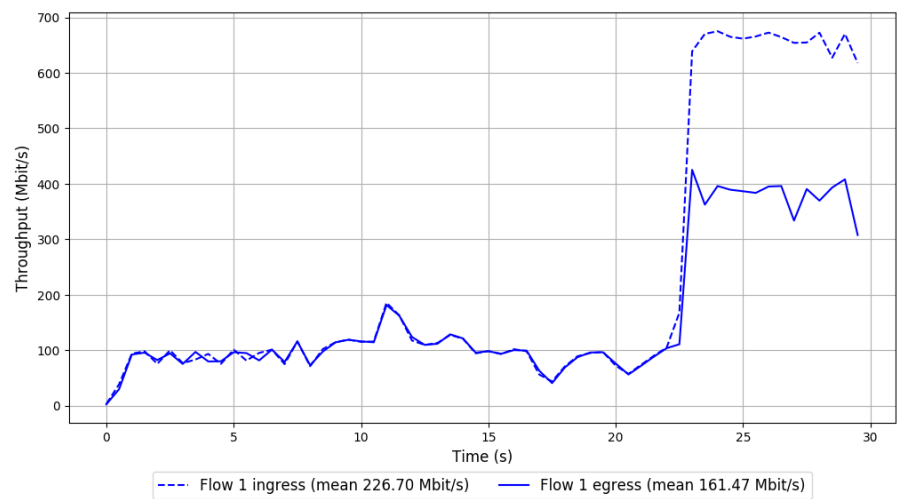
-- Flow 1:

Average throughput: 161.47 Mbit/s

95th percentile per-packet one-way delay: 270.796 ms

Loss rate: 29.02%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 13:45:26

End at: 2018-04-10 13:45:56

Below is generated by plot.py at 2018-04-10 17:17:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.06 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.04%

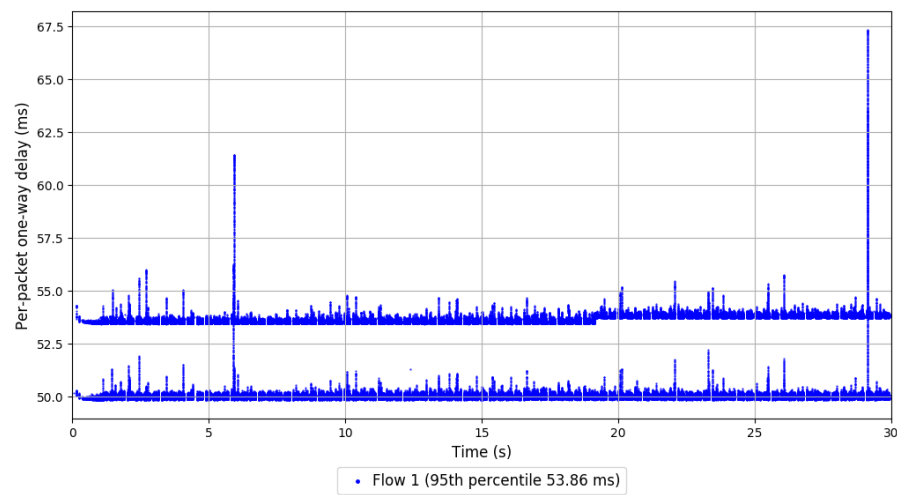
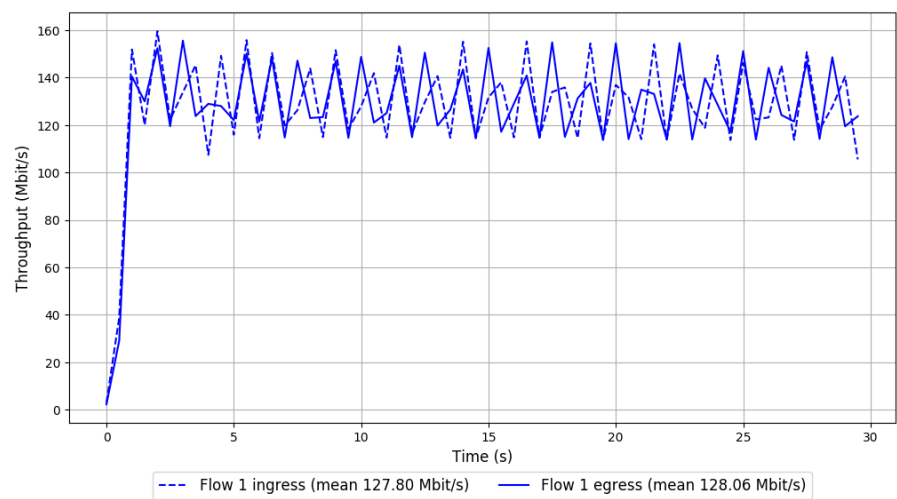
-- Flow 1:

Average throughput: 128.06 Mbit/s

95th percentile per-packet one-way delay: 53.857 ms

Loss rate: 0.04%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 13:59:34

End at: 2018-04-10 14:00:04

Below is generated by plot.py at 2018-04-10 17:18:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 235.75 Mbit/s

95th percentile per-packet one-way delay: 270.523 ms

Loss rate: 31.82%

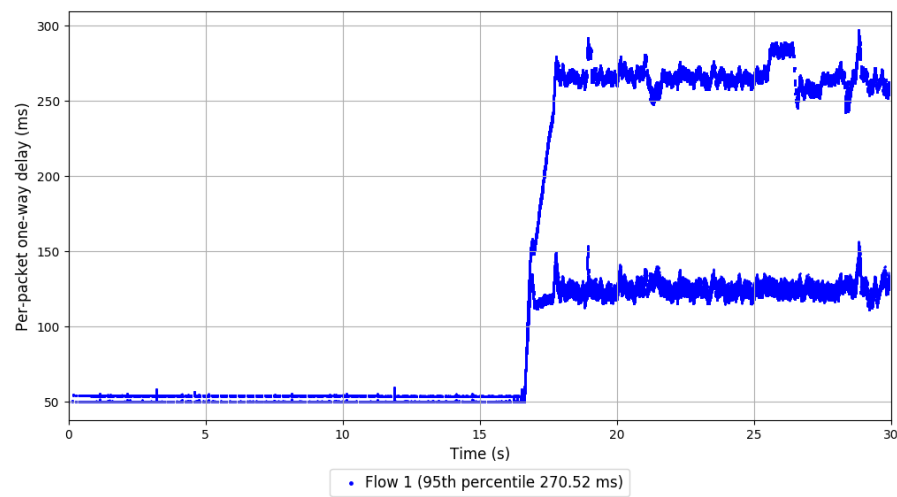
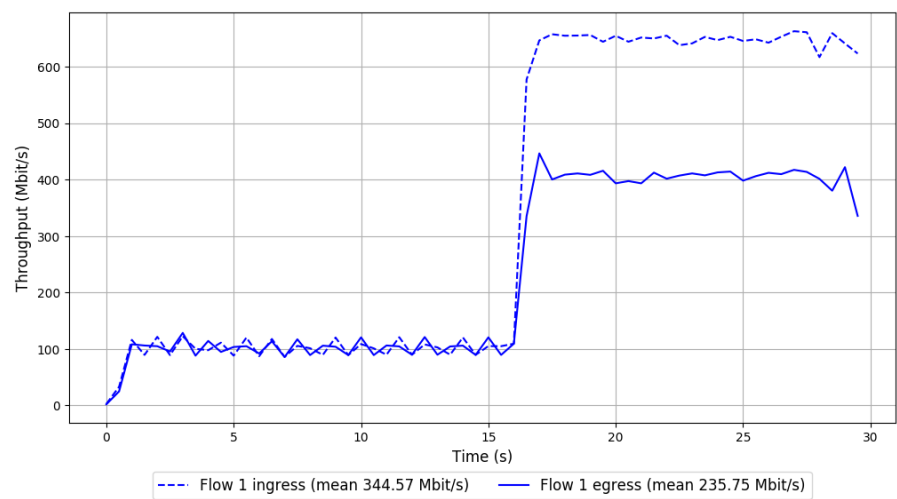
-- Flow 1:

Average throughput: 235.75 Mbit/s

95th percentile per-packet one-way delay: 270.523 ms

Loss rate: 31.82%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-10 11:55:05

End at: 2018-04-10 11:55:35

Below is generated by plot.py at 2018-04-10 17:24:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.05 Mbit/s

95th percentile per-packet one-way delay: 143.410 ms

Loss rate: 5.48%

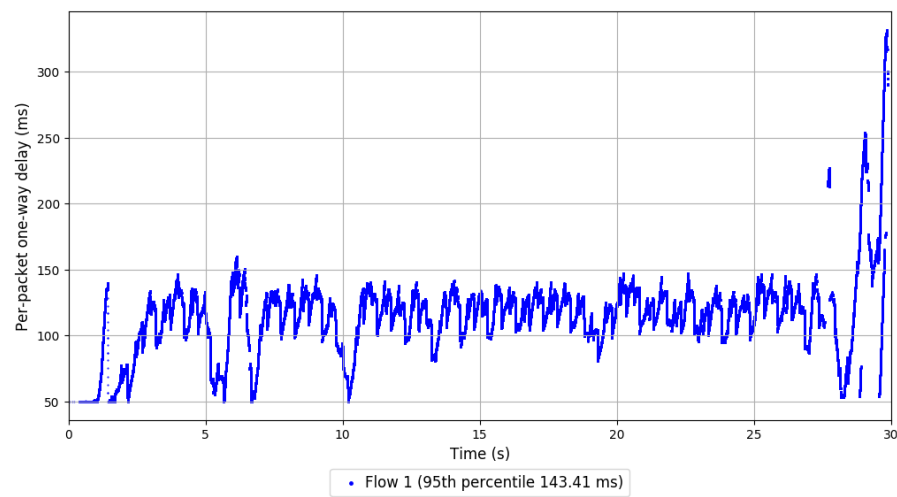
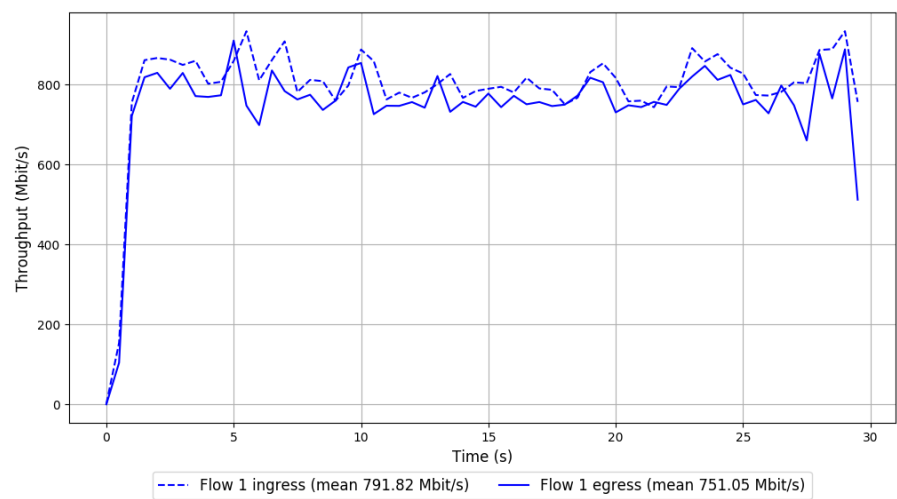
-- Flow 1:

Average throughput: 751.05 Mbit/s

95th percentile per-packet one-way delay: 143.410 ms

Loss rate: 5.48%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 12:09:27

End at: 2018-04-10 12:09:57

Below is generated by plot.py at 2018-04-10 17:24:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 771.00 Mbit/s

95th percentile per-packet one-way delay: 142.887 ms

Loss rate: 4.65%

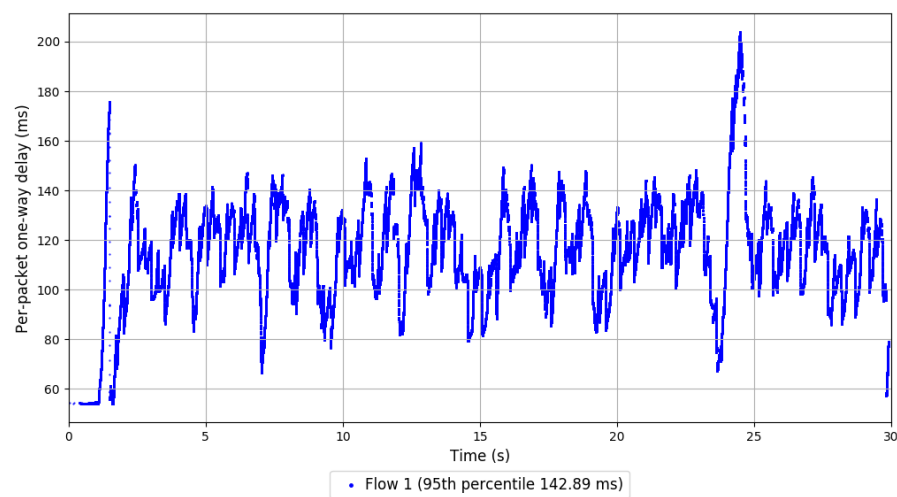
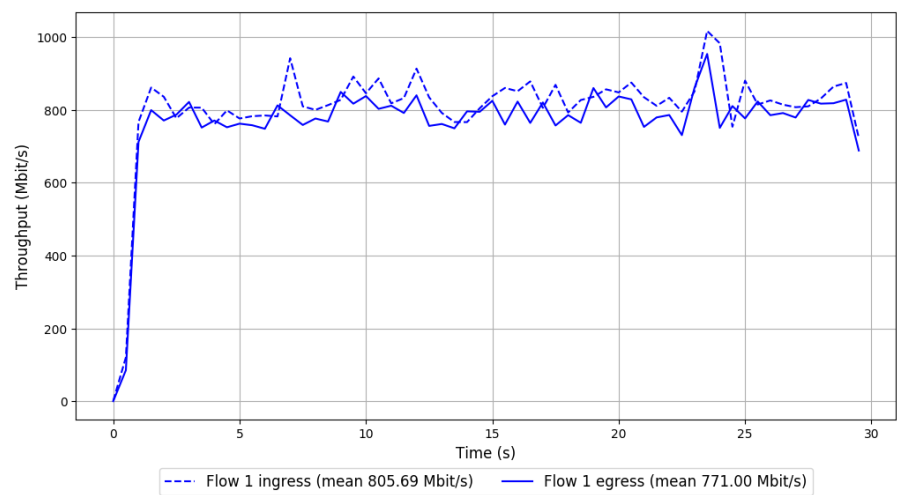
-- Flow 1:

Average throughput: 771.00 Mbit/s

95th percentile per-packet one-way delay: 142.887 ms

Loss rate: 4.65%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 12:23:41

End at: 2018-04-10 12:24:11

Below is generated by plot.py at 2018-04-10 17:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.18 Mbit/s

95th percentile per-packet one-way delay: 156.302 ms

Loss rate: 4.26%

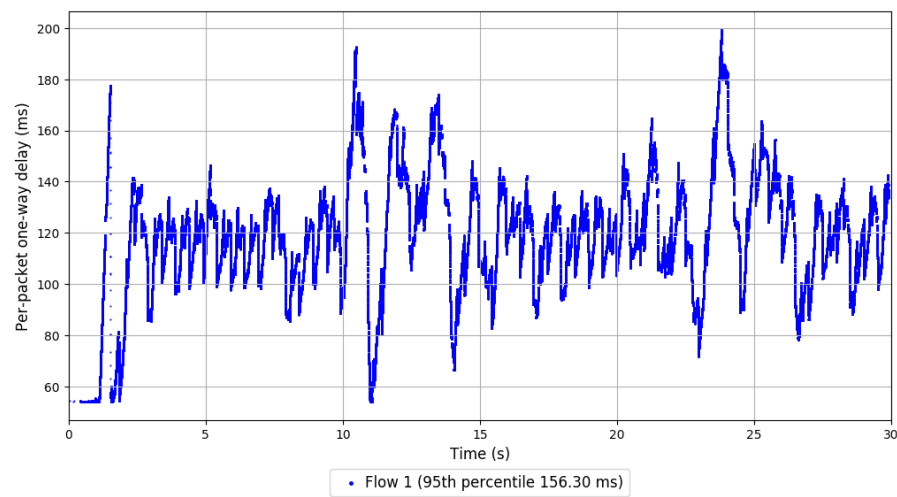
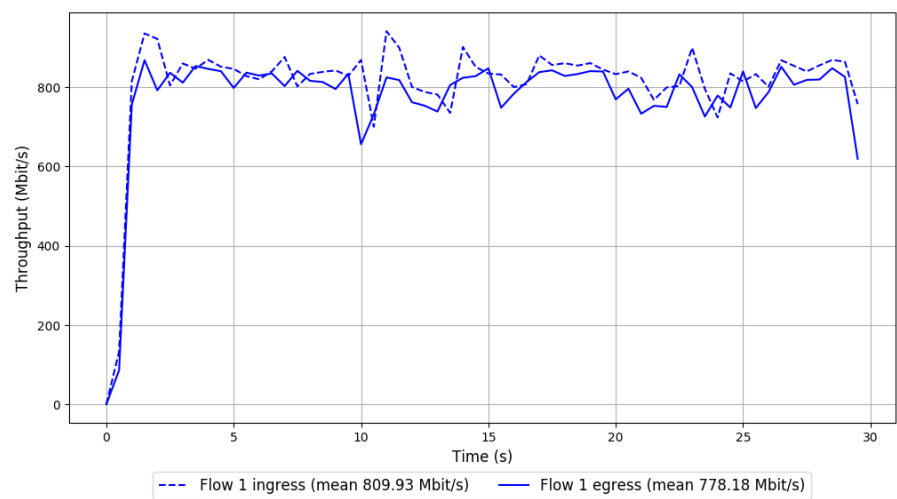
-- Flow 1:

Average throughput: 778.18 Mbit/s

95th percentile per-packet one-way delay: 156.302 ms

Loss rate: 4.26%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 12:37:43

End at: 2018-04-10 12:38:13

Below is generated by plot.py at 2018-04-10 17:25:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 484.15 Mbit/s

95th percentile per-packet one-way delay: 165.607 ms

Loss rate: 5.01%

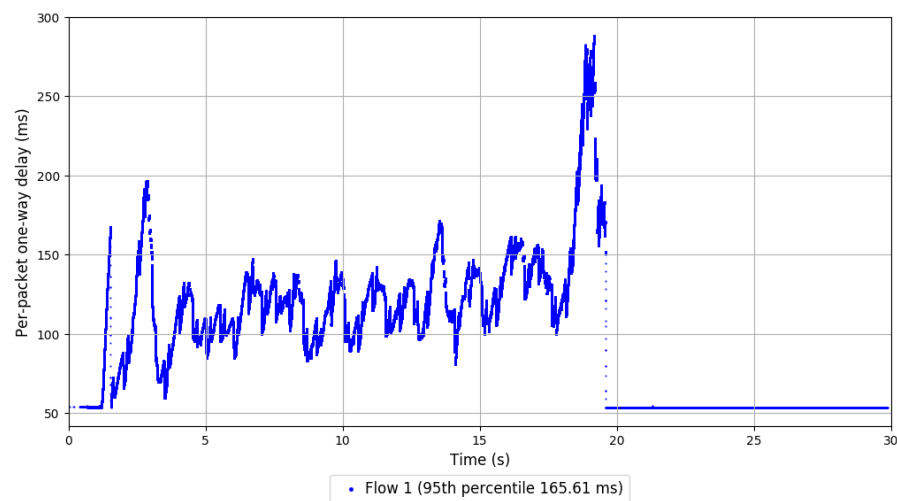
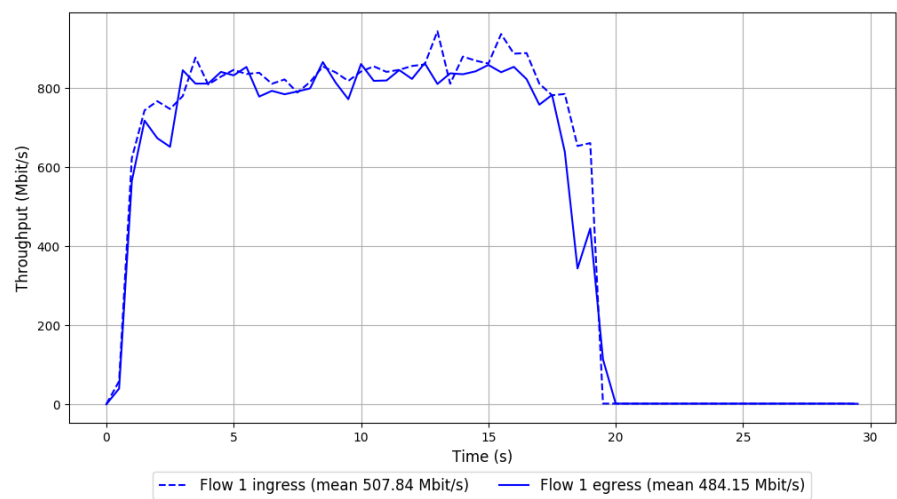
-- Flow 1:

Average throughput: 484.15 Mbit/s

95th percentile per-packet one-way delay: 165.607 ms

Loss rate: 5.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 12:51:26

End at: 2018-04-10 12:51:56

Below is generated by plot.py at 2018-04-10 17:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 753.51 Mbit/s

95th percentile per-packet one-way delay: 214.149 ms

Loss rate: 4.55%

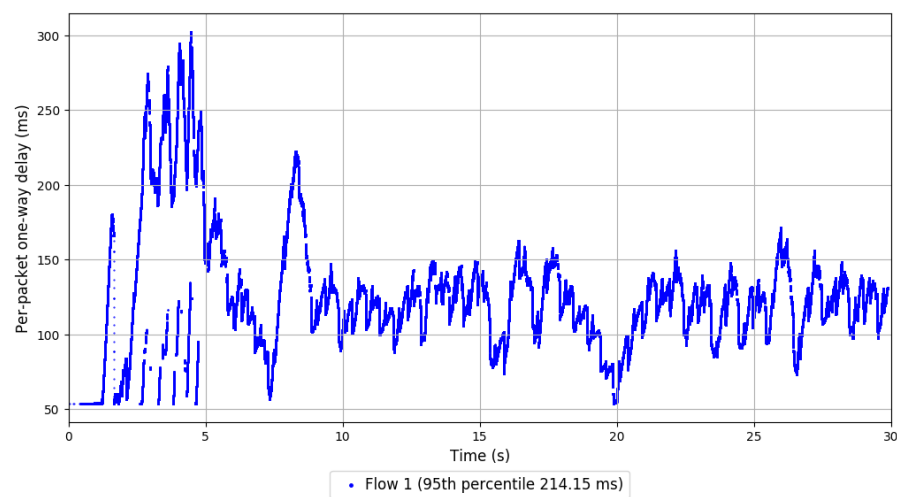
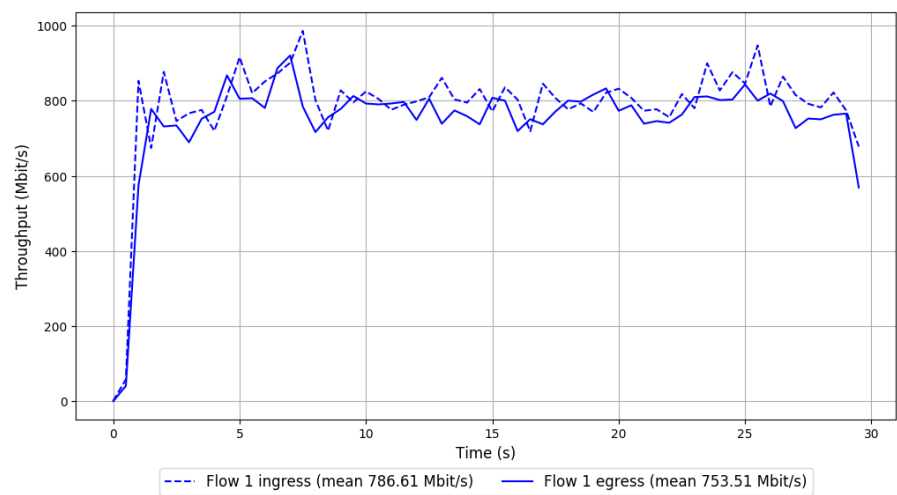
-- Flow 1:

Average throughput: 753.51 Mbit/s

95th percentile per-packet one-way delay: 214.149 ms

Loss rate: 4.55%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 13:05:31

End at: 2018-04-10 13:06:01

Below is generated by plot.py at 2018-04-10 17:30:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.11 Mbit/s

95th percentile per-packet one-way delay: 135.301 ms

Loss rate: 5.97%

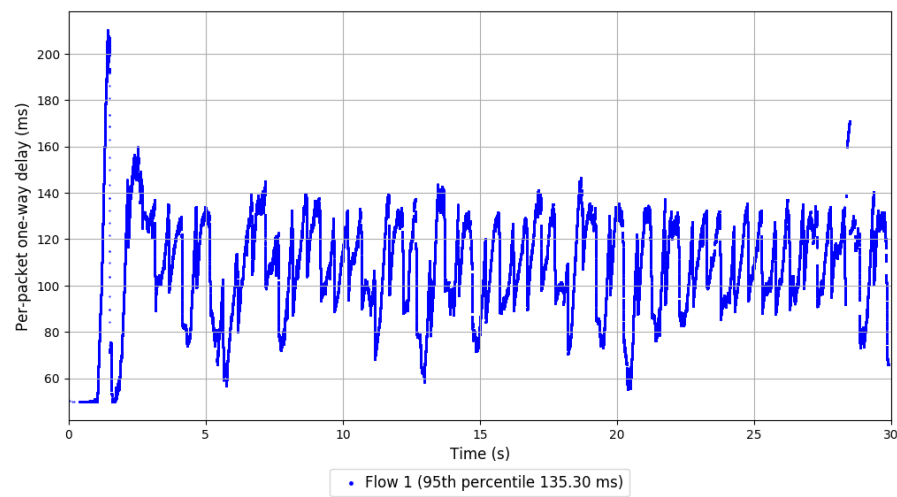
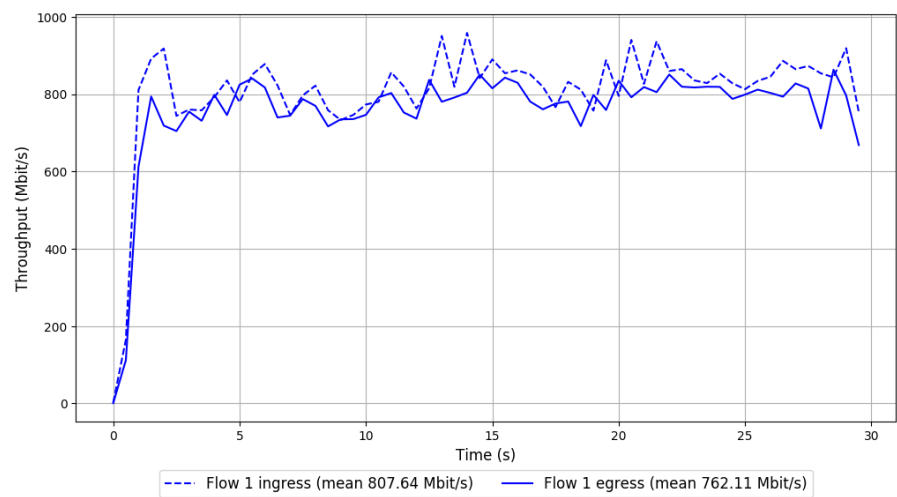
-- Flow 1:

Average throughput: 762.11 Mbit/s

95th percentile per-packet one-way delay: 135.301 ms

Loss rate: 5.97%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 13:19:31

End at: 2018-04-10 13:20:01

Below is generated by plot.py at 2018-04-10 17:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.56 Mbit/s

95th percentile per-packet one-way delay: 159.244 ms

Loss rate: 4.19%

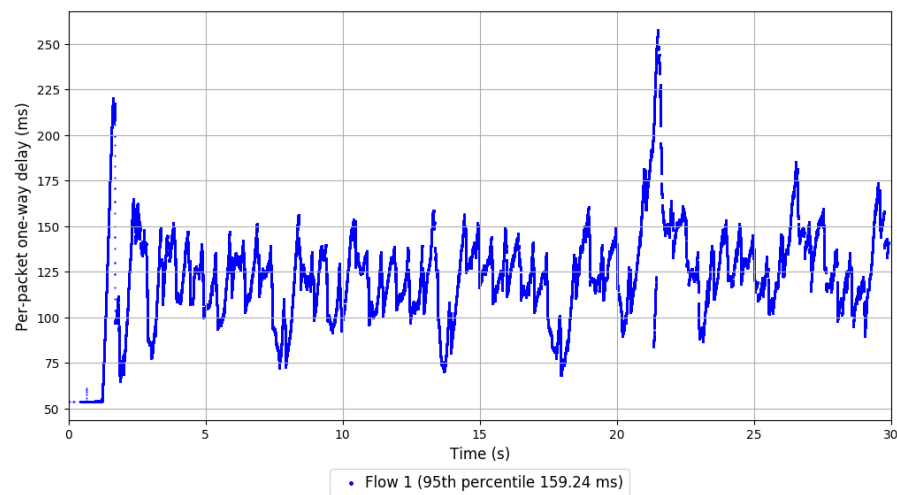
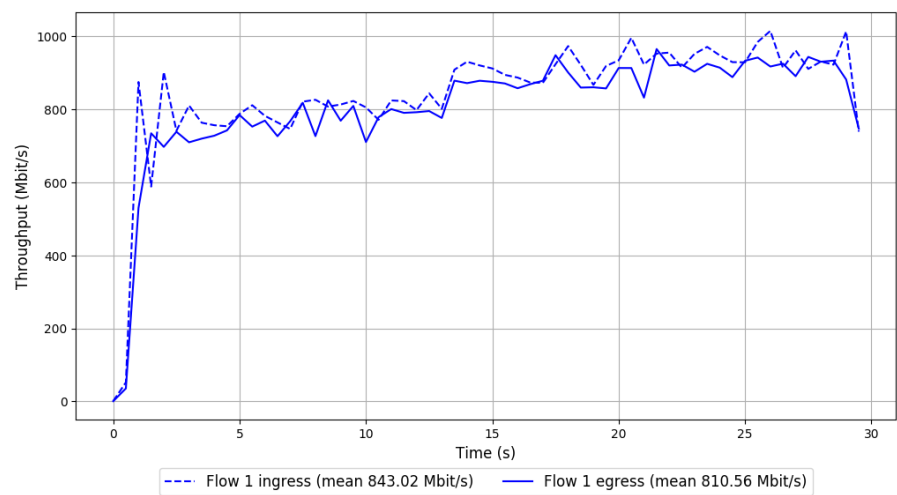
-- Flow 1:

Average throughput: 810.56 Mbit/s

95th percentile per-packet one-way delay: 159.244 ms

Loss rate: 4.19%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 13:33:46

End at: 2018-04-10 13:34:16

Below is generated by plot.py at 2018-04-10 17:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 741.99 Mbit/s

95th percentile per-packet one-way delay: 143.689 ms

Loss rate: 4.82%

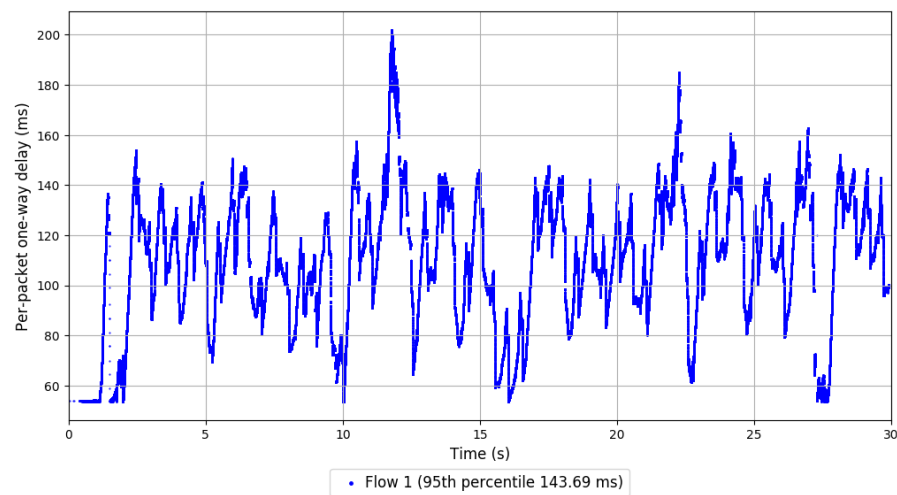
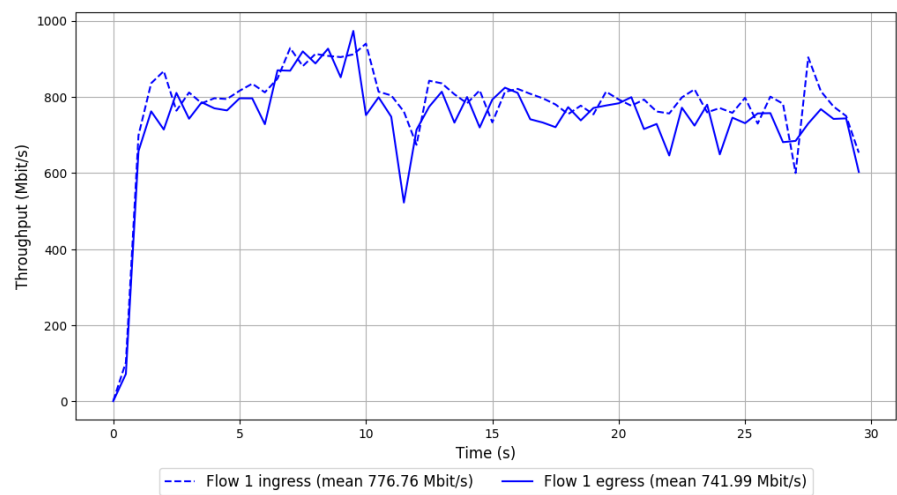
-- Flow 1:

Average throughput: 741.99 Mbit/s

95th percentile per-packet one-way delay: 143.689 ms

Loss rate: 4.82%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 13:48:02

End at: 2018-04-10 13:48:32

Below is generated by plot.py at 2018-04-10 17:37:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.43 Mbit/s

95th percentile per-packet one-way delay: 139.615 ms

Loss rate: 4.64%

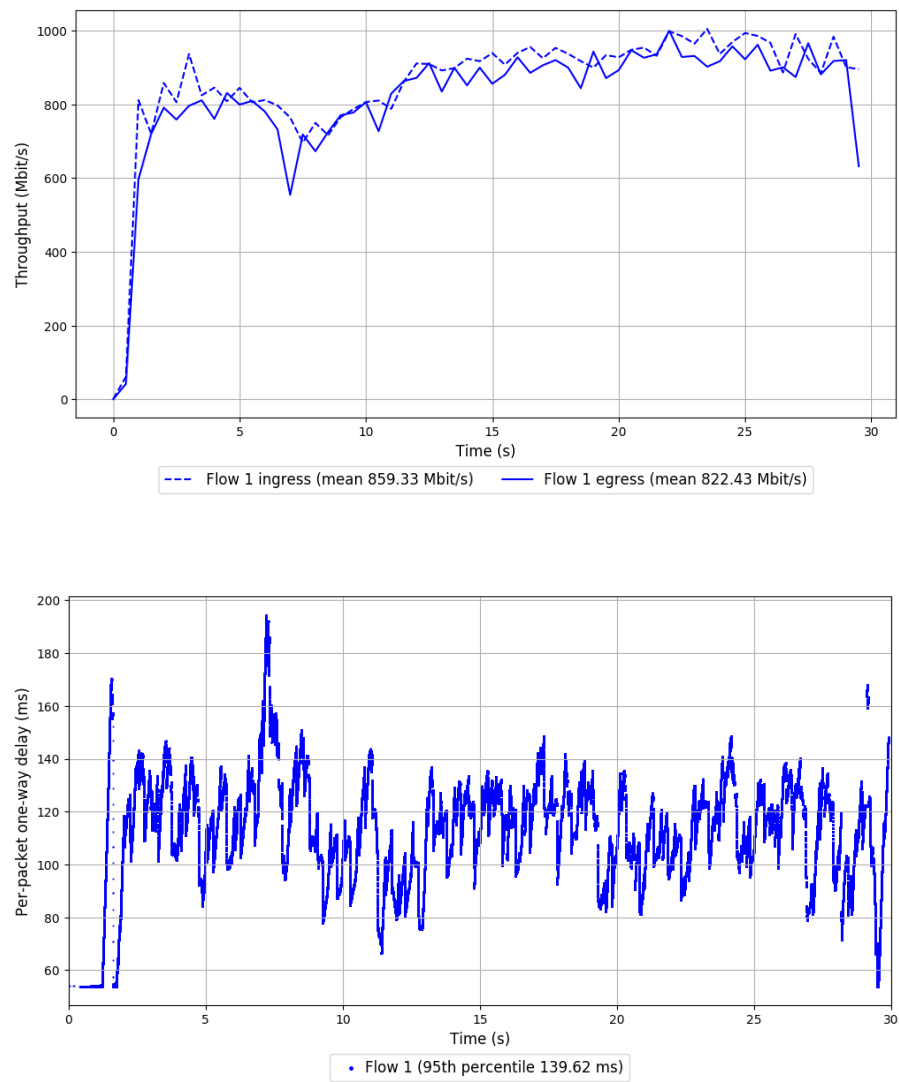
-- Flow 1:

Average throughput: 822.43 Mbit/s

95th percentile per-packet one-way delay: 139.615 ms

Loss rate: 4.64%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 14:02:18

End at: 2018-04-10 14:02:48

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 825.19 Mbit/s

95th percentile per-packet one-way delay: 142.248 ms

Loss rate: 5.42%

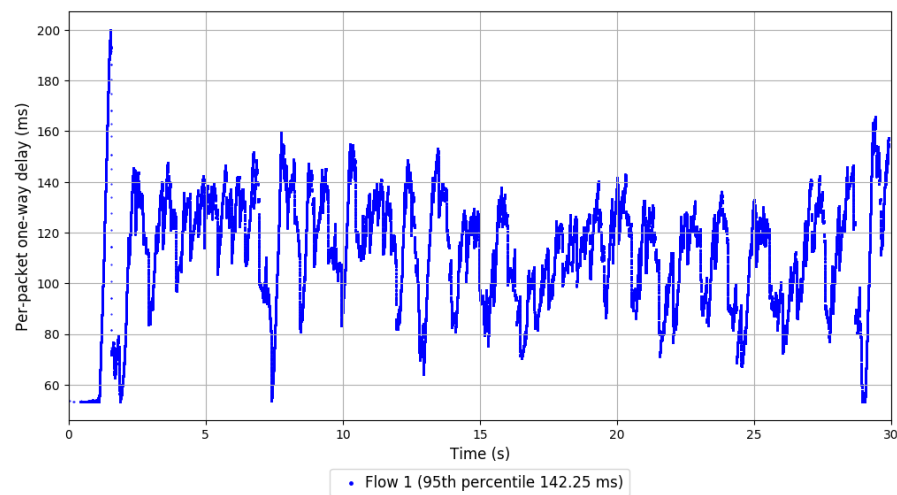
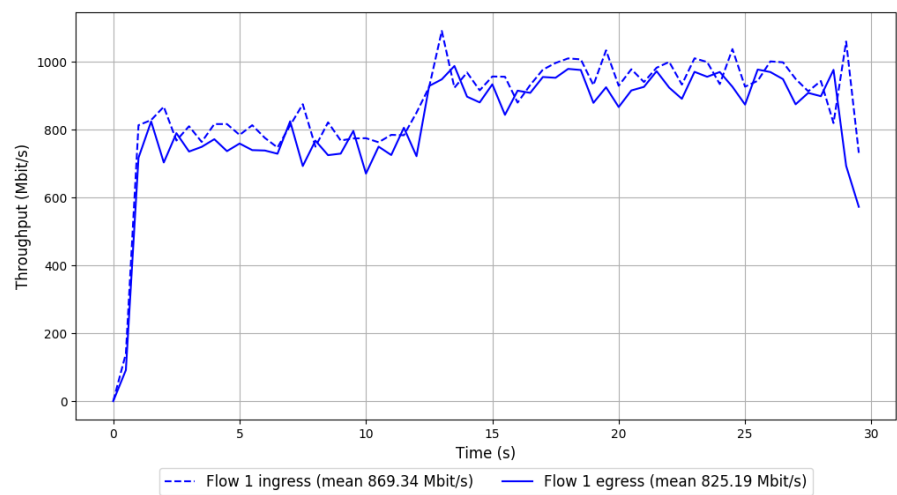
-- Flow 1:

Average throughput: 825.19 Mbit/s

95th percentile per-packet one-way delay: 142.248 ms

Loss rate: 5.42%

Run 10: Report of FillP — Data Link

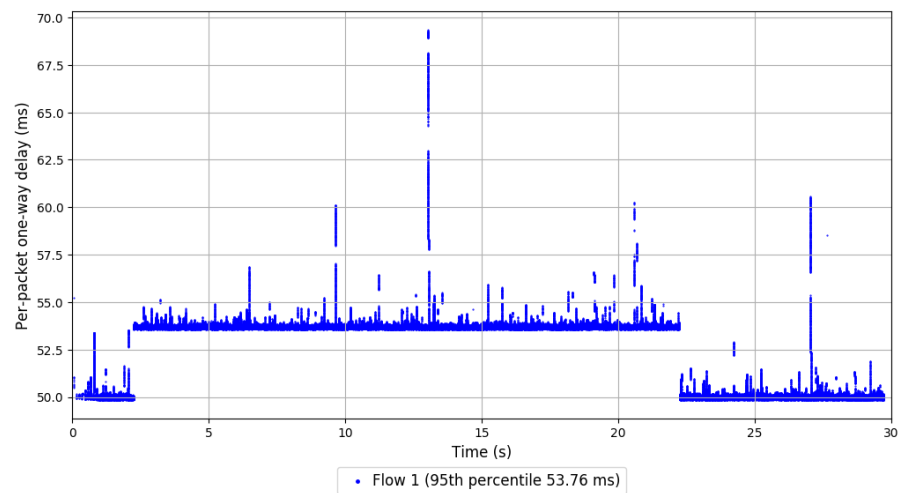
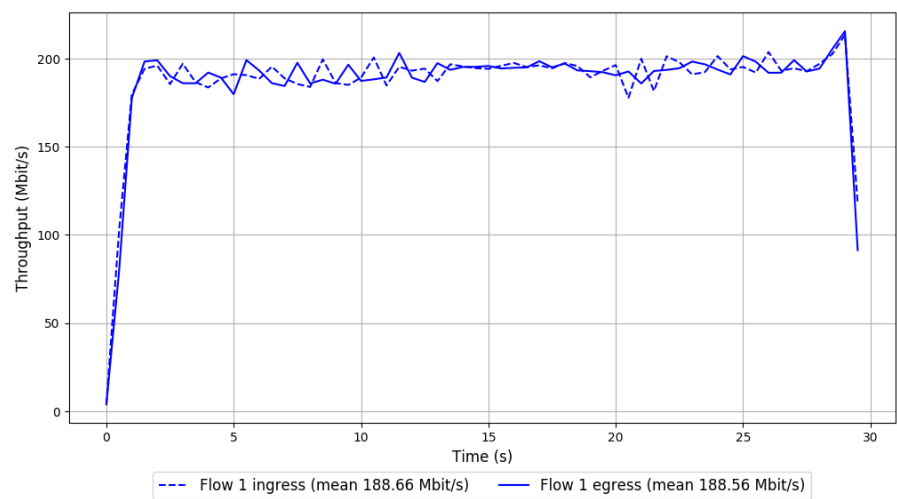


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 11:49:43
End at: 2018-04-10 11:50:13

# Below is generated by plot.py at 2018-04-10 17:41:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 188.56 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 188.56 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 0.40%
```

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

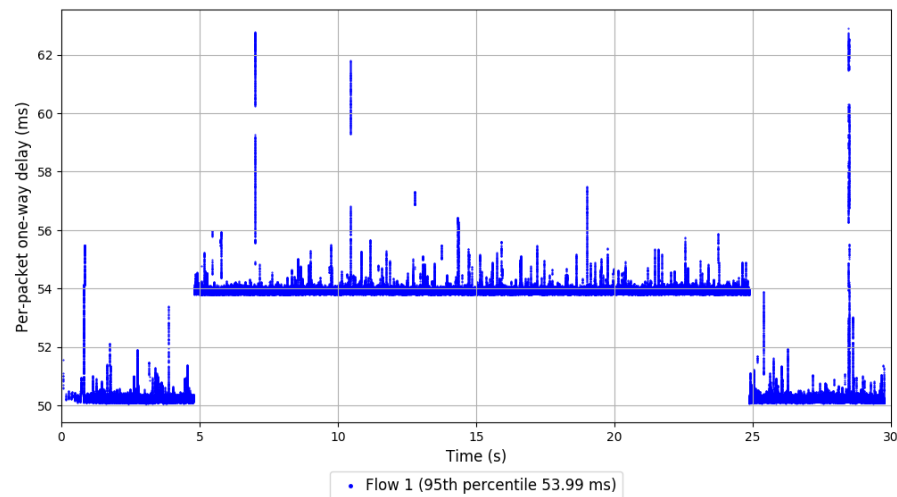
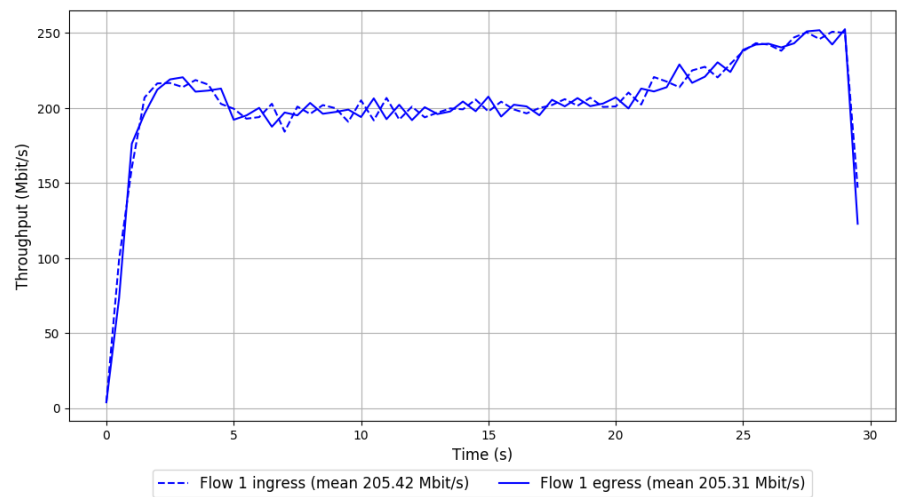


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 12:03:50
End at: 2018-04-10 12:04:20

# Below is generated by plot.py at 2018-04-10 17:41:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.31 Mbit/s
95th percentile per-packet one-way delay: 53.988 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 205.31 Mbit/s
95th percentile per-packet one-way delay: 53.988 ms
Loss rate: 0.40%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 12:18:20

End at: 2018-04-10 12:18:50

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.68 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.36%

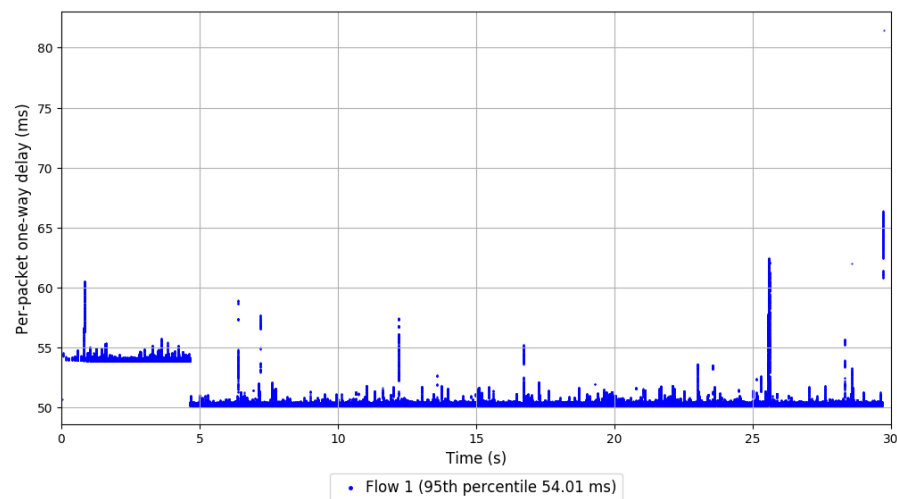
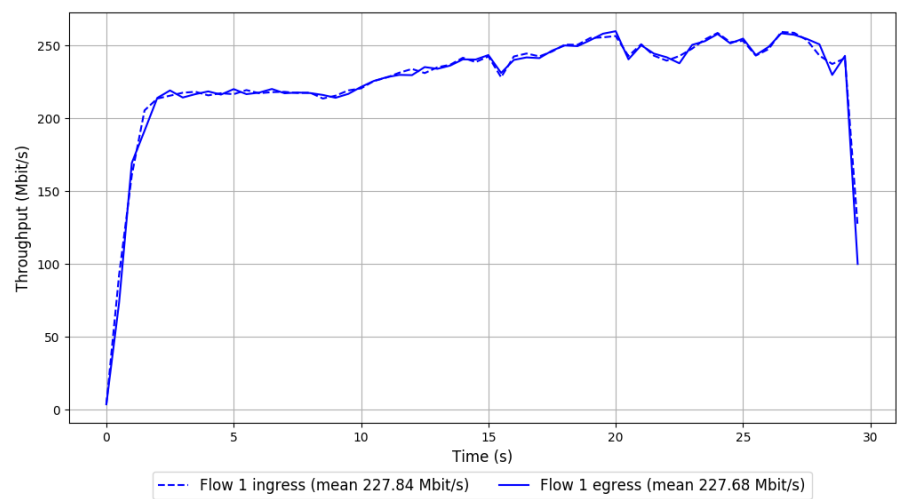
-- Flow 1:

Average throughput: 227.68 Mbit/s

95th percentile per-packet one-way delay: 54.007 ms

Loss rate: 0.36%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 12:32:26

End at: 2018-04-10 12:32:56

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.81 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.34%

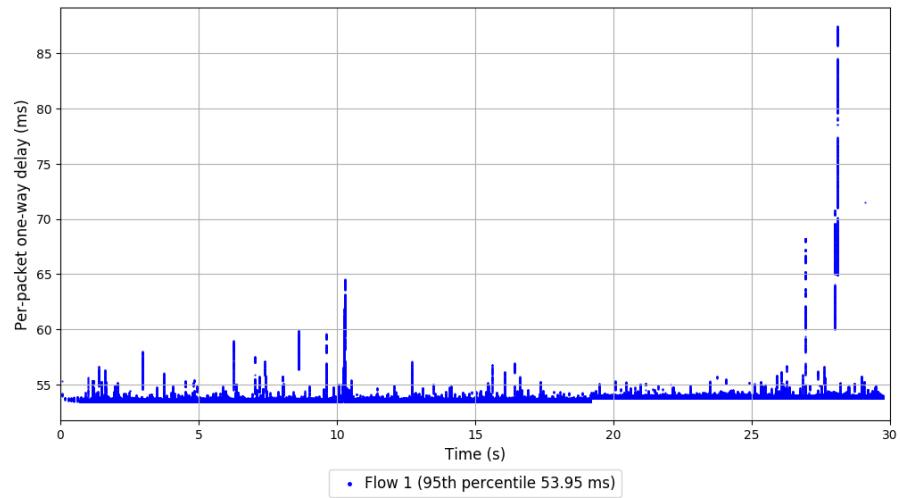
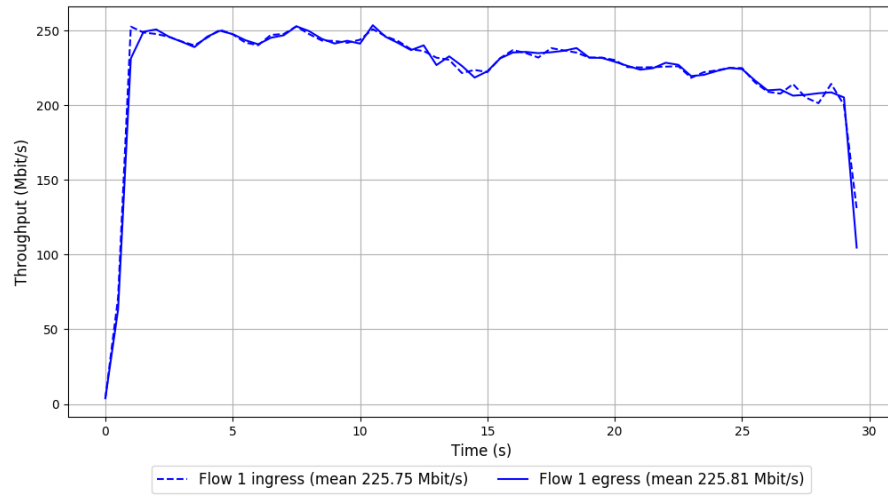
-- Flow 1:

Average throughput: 225.81 Mbit/s

95th percentile per-packet one-way delay: 53.948 ms

Loss rate: 0.34%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-10 12:46:13

End at: 2018-04-10 12:46:43

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.54 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.36%

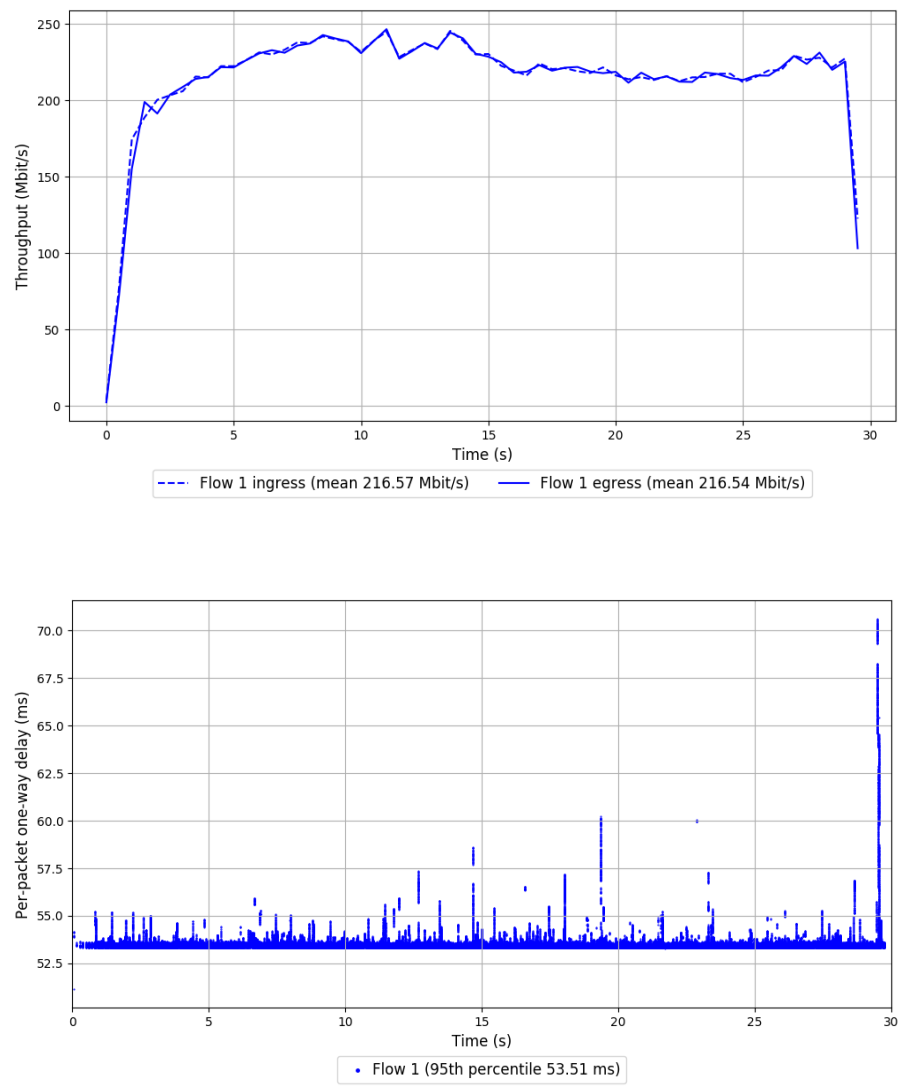
-- Flow 1:

Average throughput: 216.54 Mbit/s

95th percentile per-packet one-way delay: 53.510 ms

Loss rate: 0.36%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 13:00:12

End at: 2018-04-10 13:00:42

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.32%

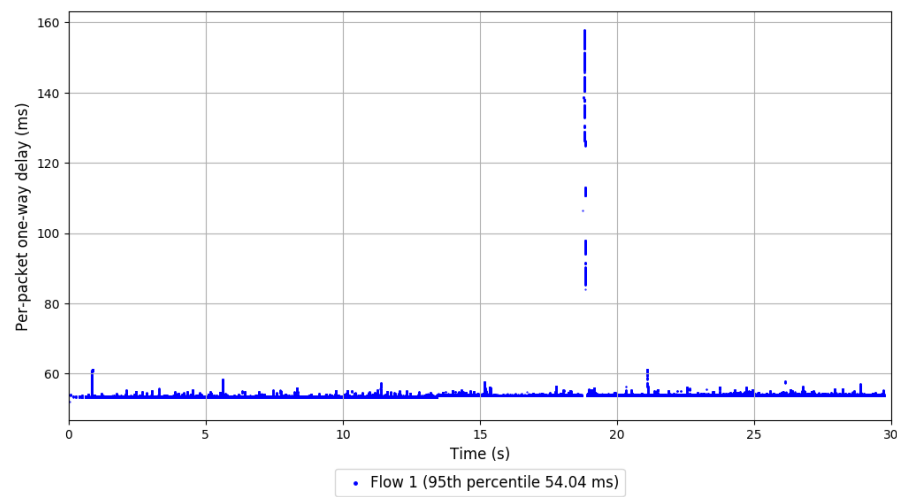
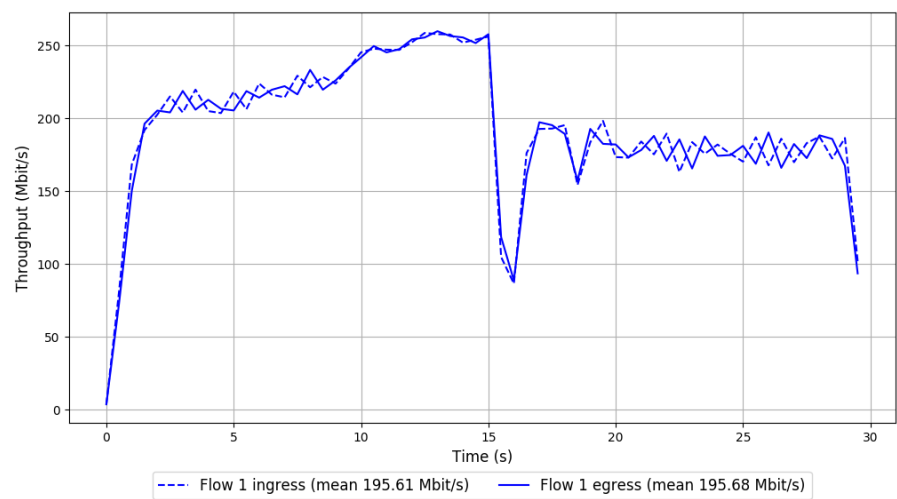
-- Flow 1:

Average throughput: 195.68 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.32%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 13:14:12

End at: 2018-04-10 13:14:42

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.48 Mbit/s

95th percentile per-packet one-way delay: 54.015 ms

Loss rate: 0.29%

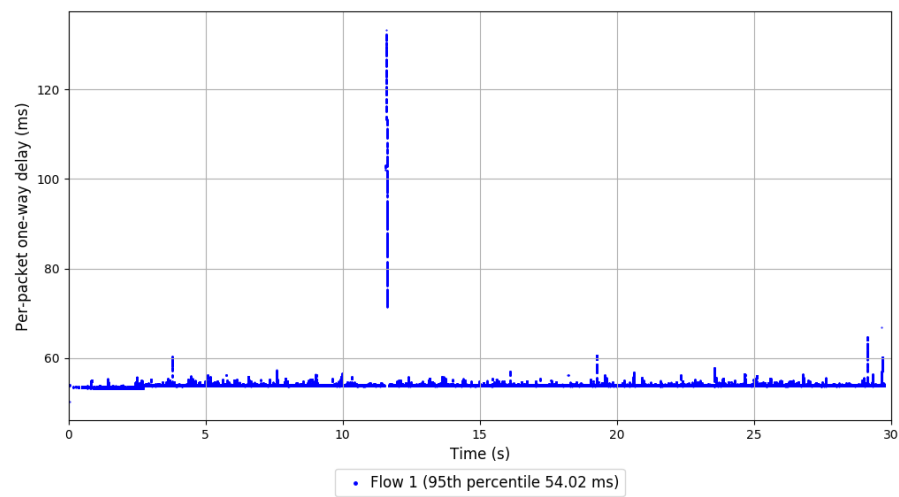
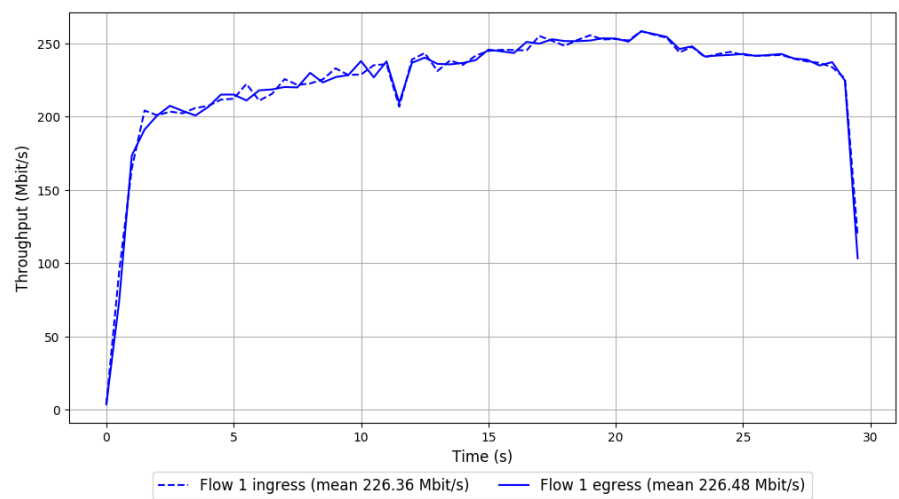
-- Flow 1:

Average throughput: 226.48 Mbit/s

95th percentile per-packet one-way delay: 54.015 ms

Loss rate: 0.29%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 13:28:17

End at: 2018-04-10 13:28:47

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.24 Mbit/s

95th percentile per-packet one-way delay: 53.864 ms

Loss rate: 0.38%

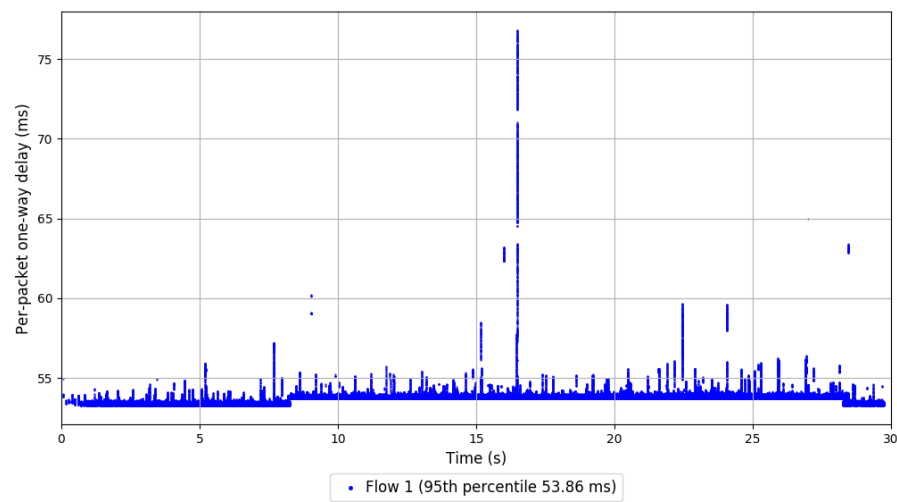
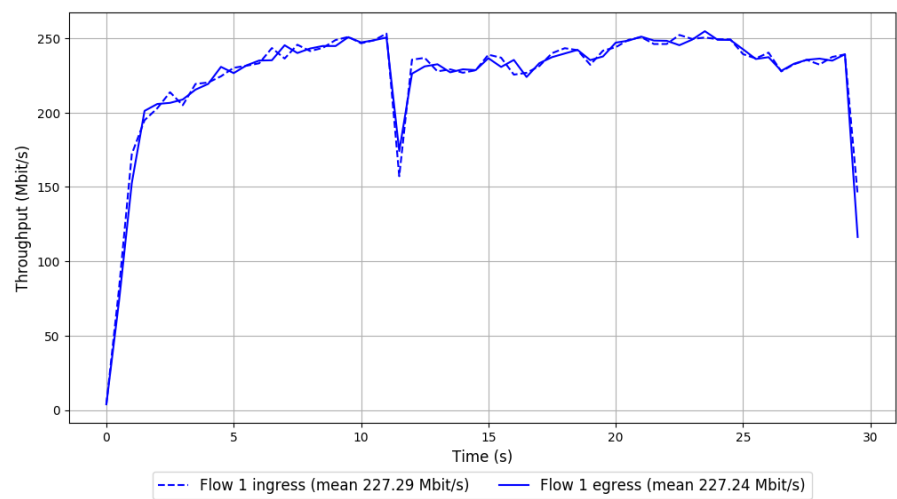
-- Flow 1:

Average throughput: 227.24 Mbit/s

95th percentile per-packet one-way delay: 53.864 ms

Loss rate: 0.38%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 13:42:35

End at: 2018-04-10 13:43:05

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.58 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.35%

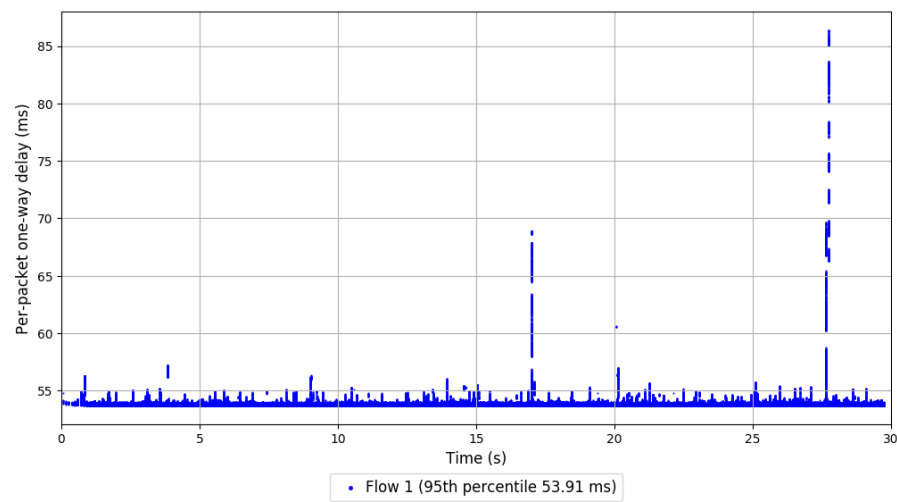
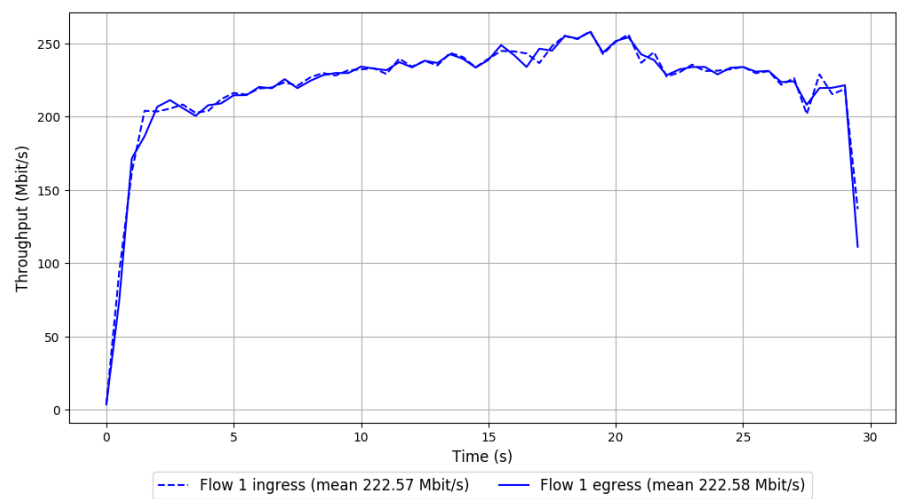
-- Flow 1:

Average throughput: 222.58 Mbit/s

95th percentile per-packet one-way delay: 53.908 ms

Loss rate: 0.35%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 13:56:46

End at: 2018-04-10 13:57:16

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.81 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.34%

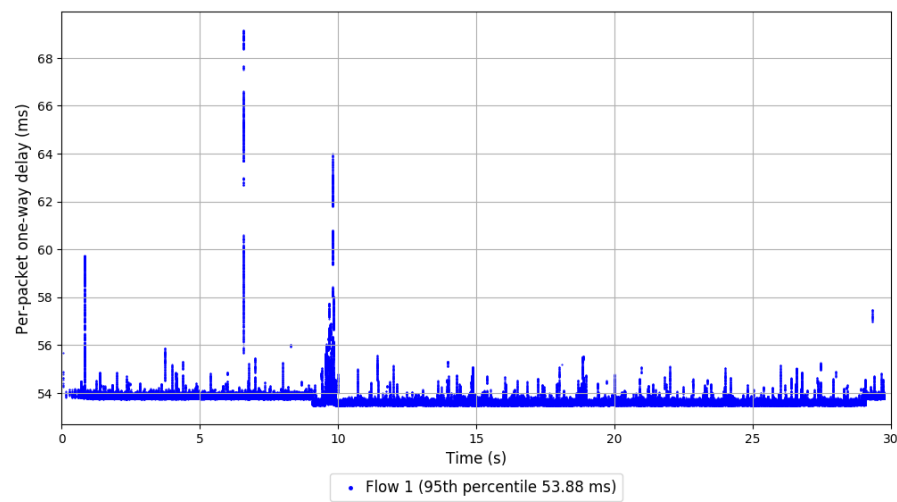
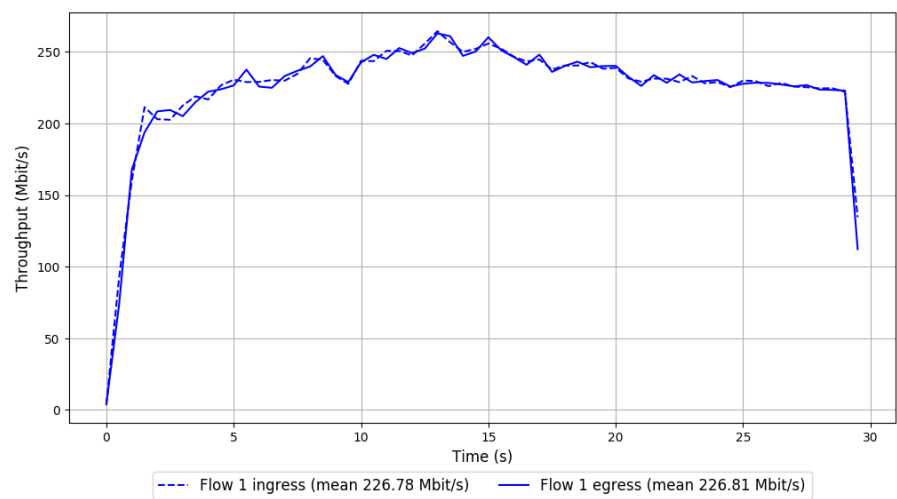
-- Flow 1:

Average throughput: 226.81 Mbit/s

95th percentile per-packet one-way delay: 53.885 ms

Loss rate: 0.34%

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

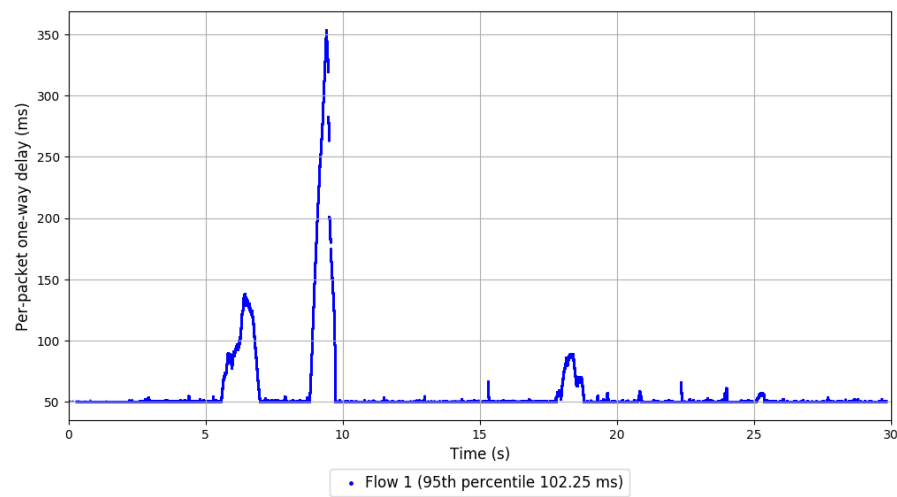
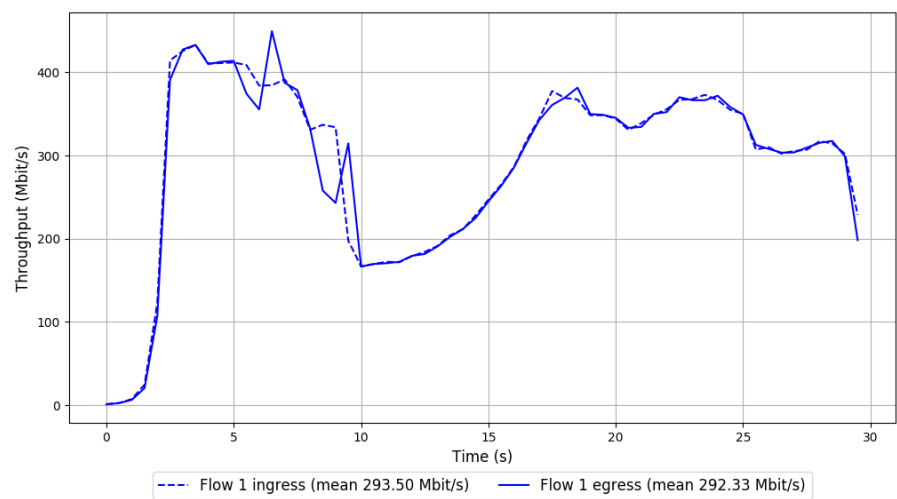


```
Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 11:51:33
End at: 2018-04-10 11:52:03

# Below is generated by plot.py at 2018-04-10 17:41:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.33 Mbit/s
95th percentile per-packet one-way delay: 102.254 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 292.33 Mbit/s
95th percentile per-packet one-way delay: 102.254 ms
Loss rate: 0.75%
```

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 12:05:41

End at: 2018-04-10 12:06:11

Below is generated by plot.py at 2018-04-10 17:41:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.03 Mbit/s

95th percentile per-packet one-way delay: 127.034 ms

Loss rate: 0.39%

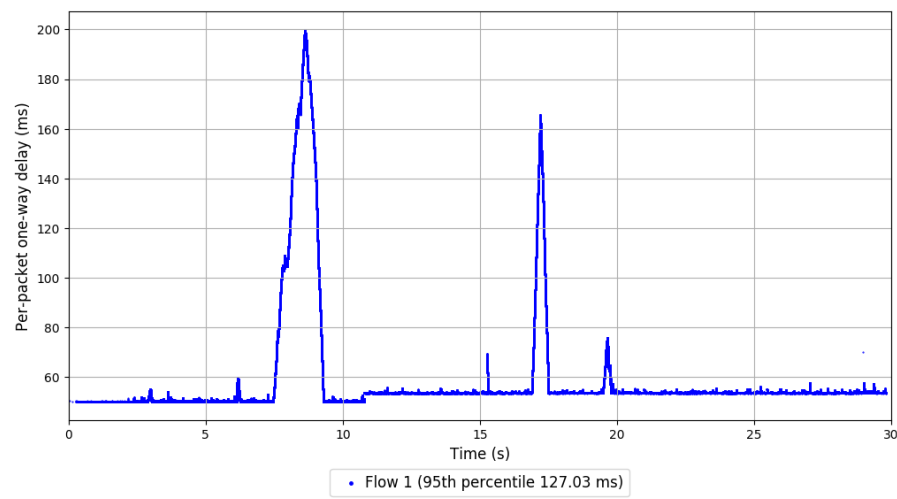
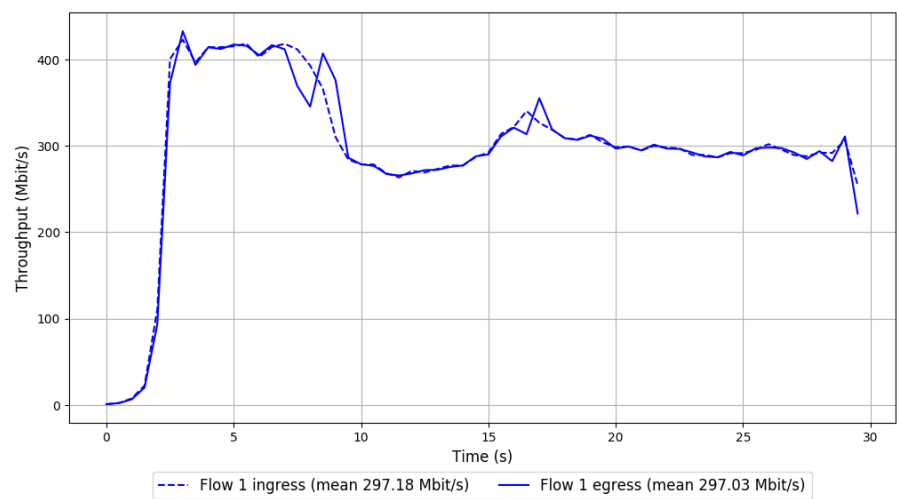
-- Flow 1:

Average throughput: 297.03 Mbit/s

95th percentile per-packet one-way delay: 127.034 ms

Loss rate: 0.39%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 12:20:12

End at: 2018-04-10 12:20:42

Below is generated by plot.py at 2018-04-10 17:42:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.96 Mbit/s

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

Loss rate: 0.39%

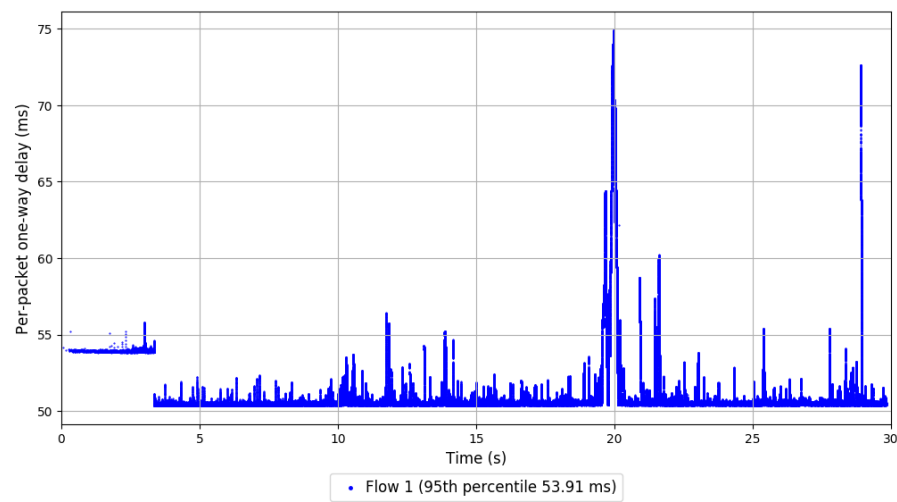
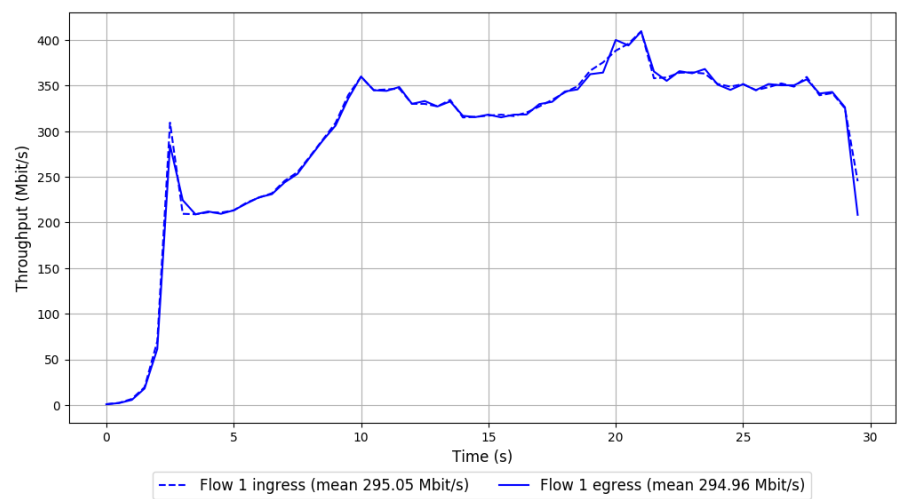
-- Flow 1:

Average throughput: 294.96 Mbit/s

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

Loss rate: 0.39%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 12:34:15

End at: 2018-04-10 12:34:45

Below is generated by plot.py at 2018-04-10 17:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.29 Mbit/s

95th percentile per-packet one-way delay: 70.649 ms

Loss rate: 0.34%

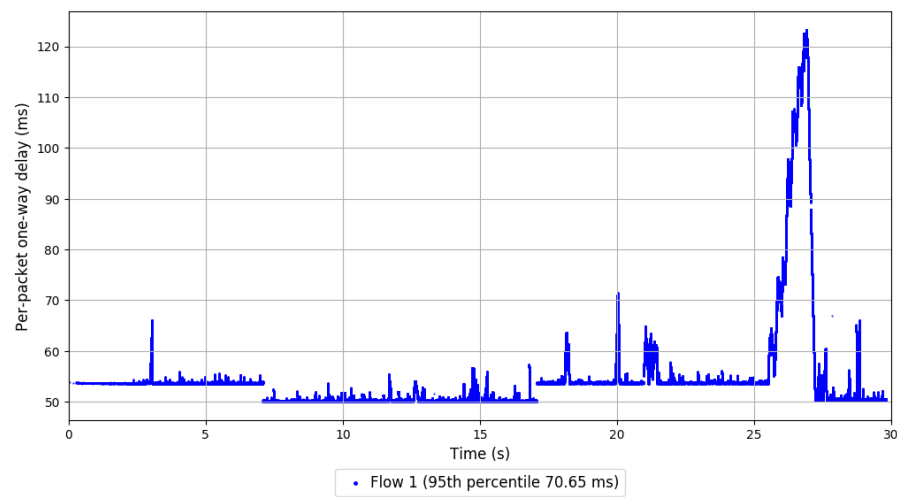
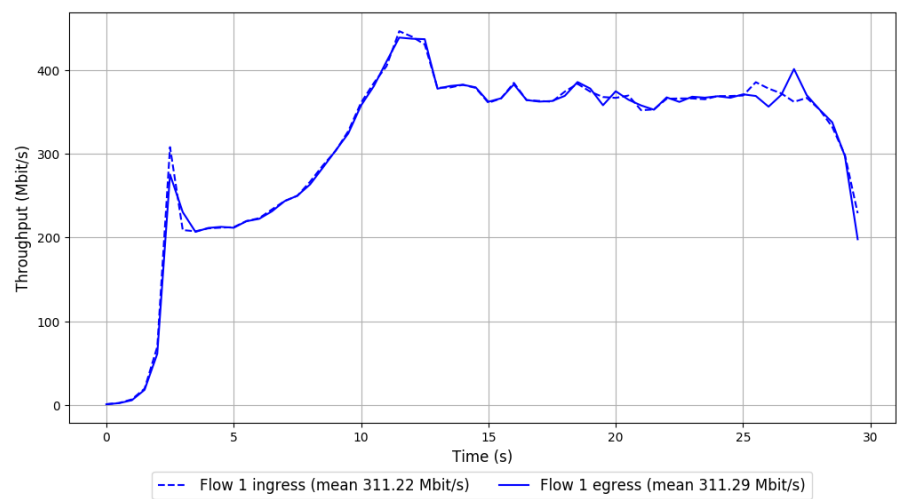
-- Flow 1:

Average throughput: 311.29 Mbit/s

95th percentile per-packet one-way delay: 70.649 ms

Loss rate: 0.34%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 12:48:03

End at: 2018-04-10 12:48:33

Below is generated by plot.py at 2018-04-10 17:42:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.42 Mbit/s

95th percentile per-packet one-way delay: 63.878 ms

Loss rate: 0.36%

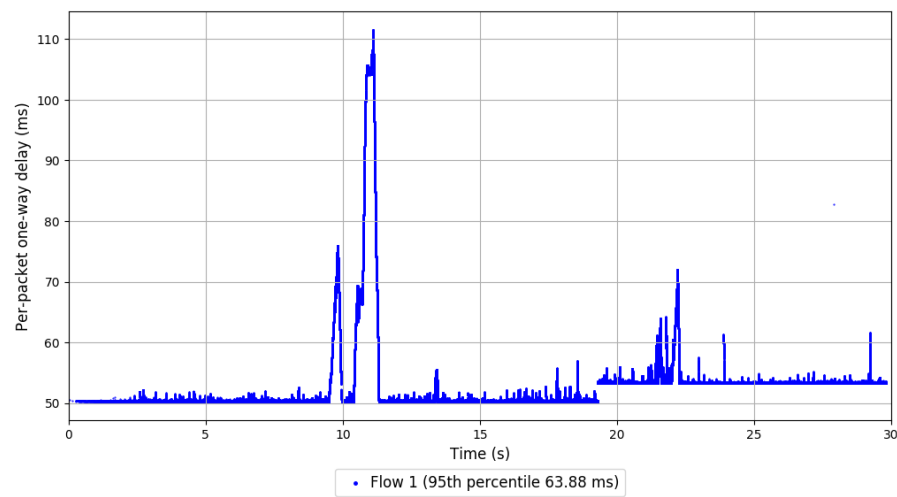
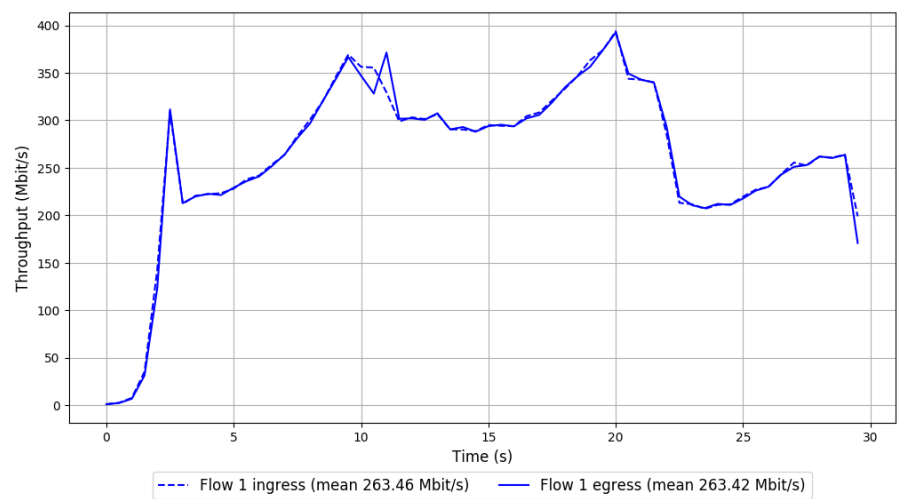
-- Flow 1:

Average throughput: 263.42 Mbit/s

95th percentile per-packet one-way delay: 63.878 ms

Loss rate: 0.36%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 13:02:02

End at: 2018-04-10 13:02:32

Below is generated by plot.py at 2018-04-10 17:42:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.96 Mbit/s

95th percentile per-packet one-way delay: 60.492 ms

Loss rate: 0.43%

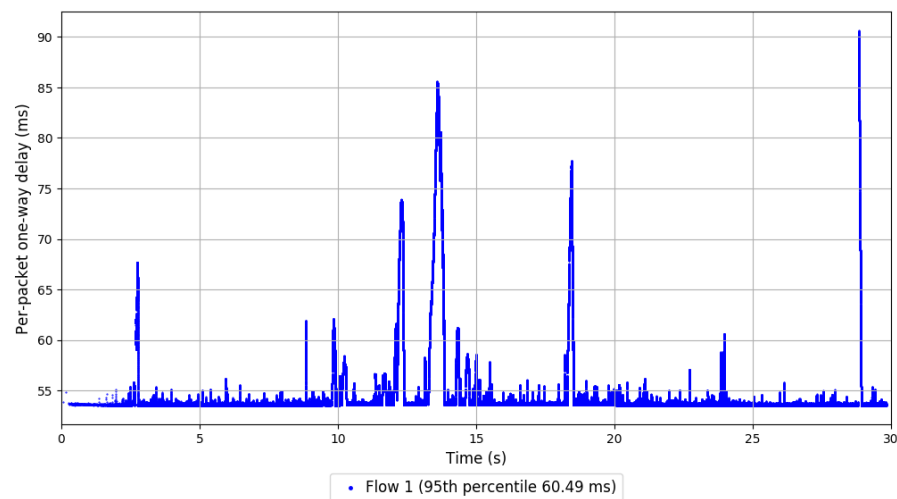
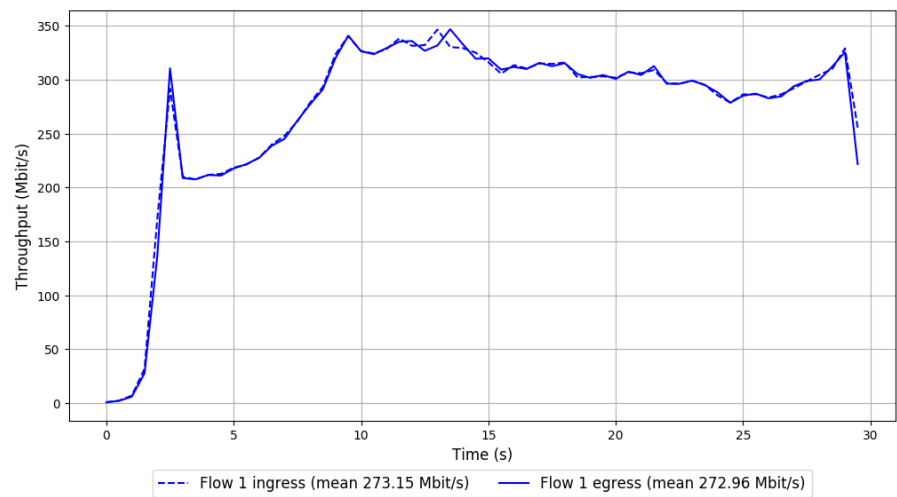
-- Flow 1:

Average throughput: 272.96 Mbit/s

95th percentile per-packet one-way delay: 60.492 ms

Loss rate: 0.43%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 13:16:03

End at: 2018-04-10 13:16:33

Below is generated by plot.py at 2018-04-10 17:42:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.42 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.34%

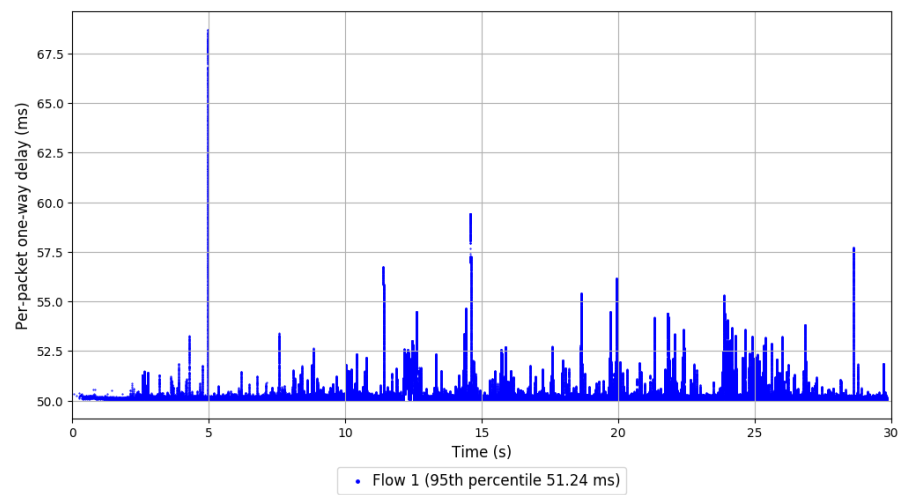
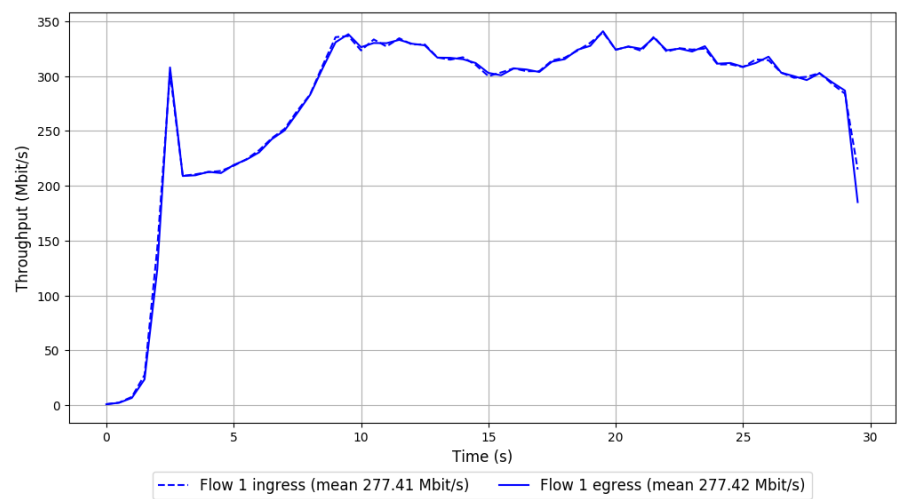
-- Flow 1:

Average throughput: 277.42 Mbit/s

95th percentile per-packet one-way delay: 51.239 ms

Loss rate: 0.34%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 13:30:07

End at: 2018-04-10 13:30:38

Below is generated by plot.py at 2018-04-10 17:45:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.33 Mbit/s

95th percentile per-packet one-way delay: 206.501 ms

Loss rate: 1.47%

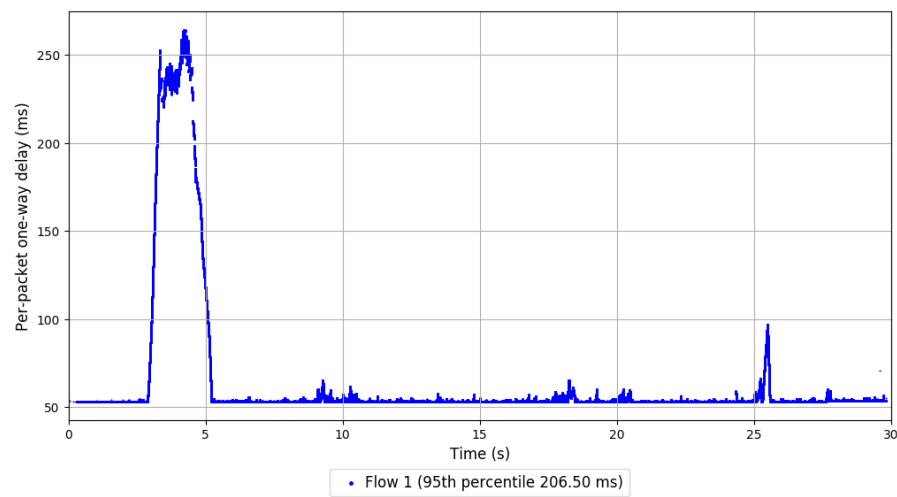
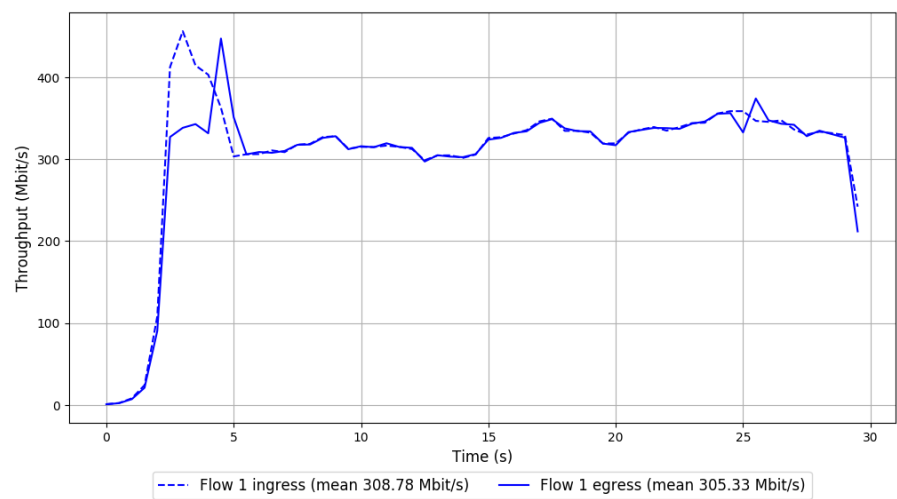
-- Flow 1:

Average throughput: 305.33 Mbit/s

95th percentile per-packet one-way delay: 206.501 ms

Loss rate: 1.47%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 13:44:26

End at: 2018-04-10 13:44:56

Below is generated by plot.py at 2018-04-10 17:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.22 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.37%

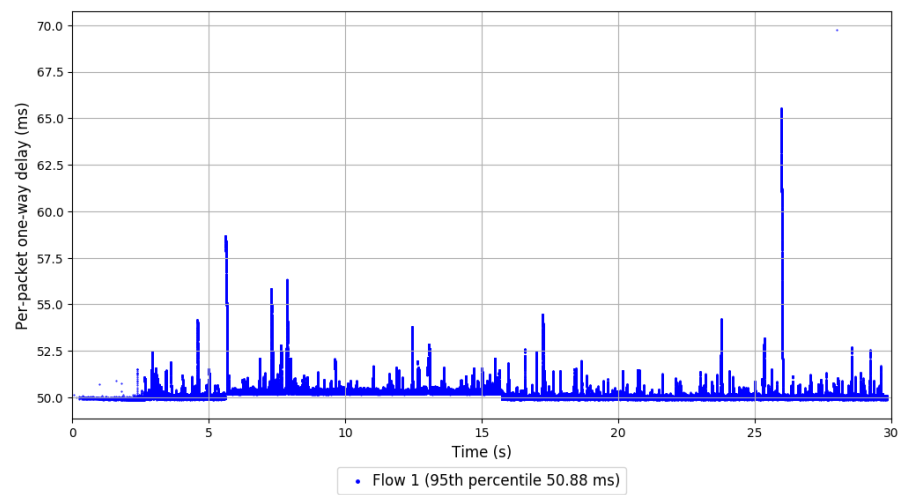
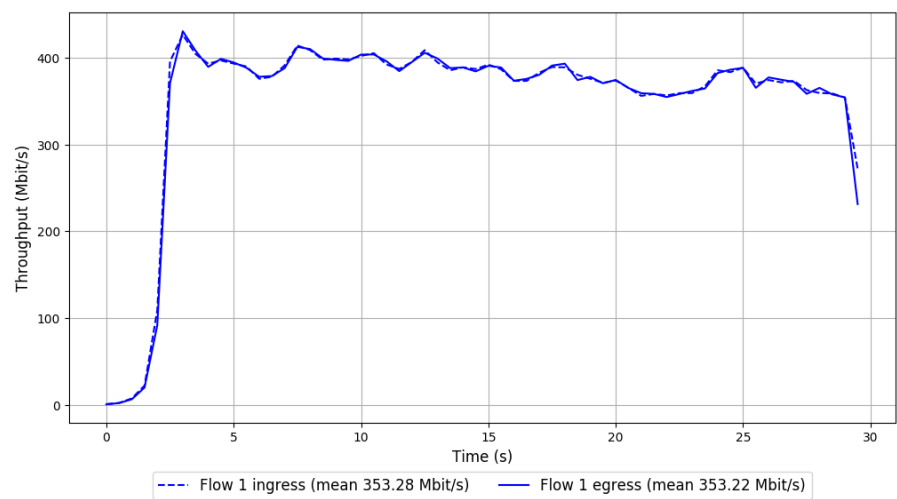
-- Flow 1:

Average throughput: 353.22 Mbit/s

95th percentile per-packet one-way delay: 50.878 ms

Loss rate: 0.37%

Run 9: Report of Vivace-latency — Data Link

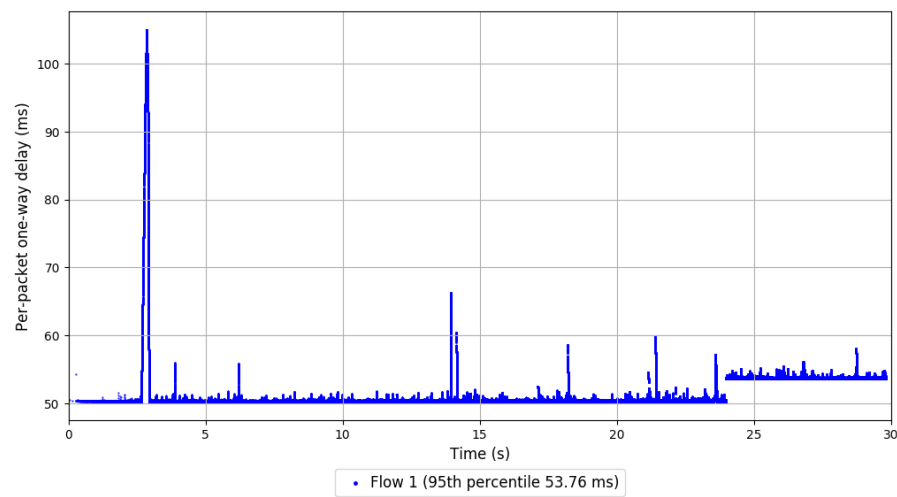
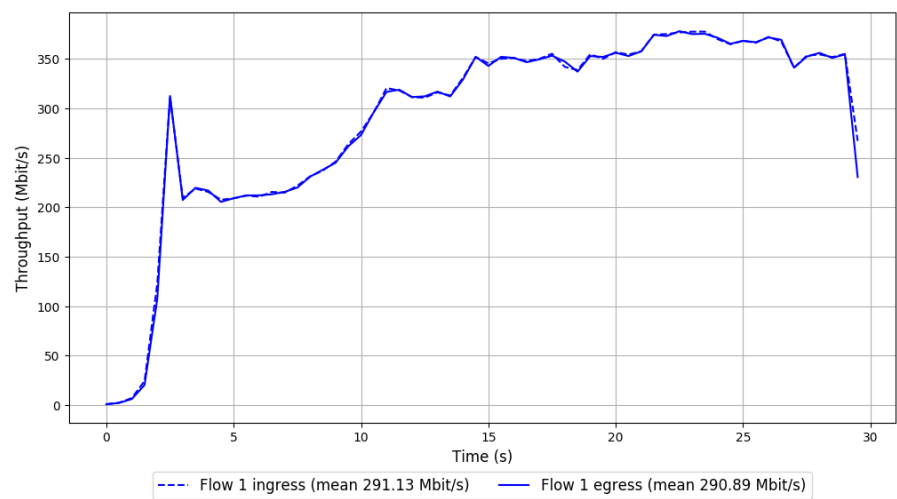


```
Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 13:58:38
End at: 2018-04-10 13:59:08

# Below is generated by plot.py at 2018-04-10 17:46:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 290.89 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 290.89 Mbit/s
95th percentile per-packet one-way delay: 53.758 ms
Loss rate: 0.43%
```

Run 10: Report of Vivace-latency — Data Link

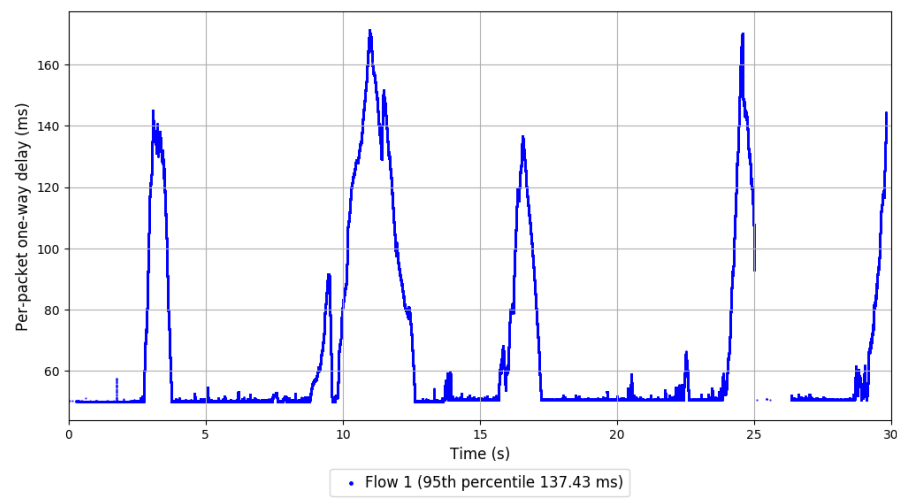
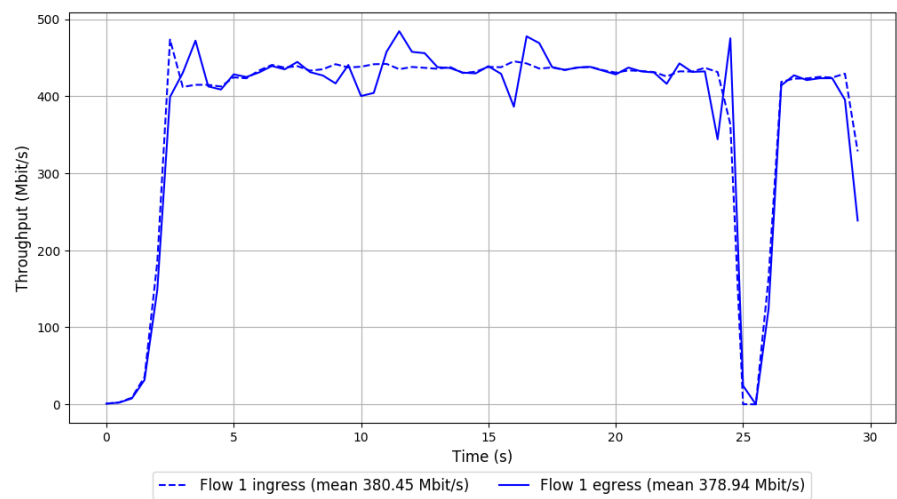


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 11:50:31
End at: 2018-04-10 11:51:01

# Below is generated by plot.py at 2018-04-10 17:49:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.94 Mbit/s
95th percentile per-packet one-way delay: 137.430 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 378.94 Mbit/s
95th percentile per-packet one-way delay: 137.430 ms
Loss rate: 0.74%
```

Run 1: Report of Vivace-loss — Data Link

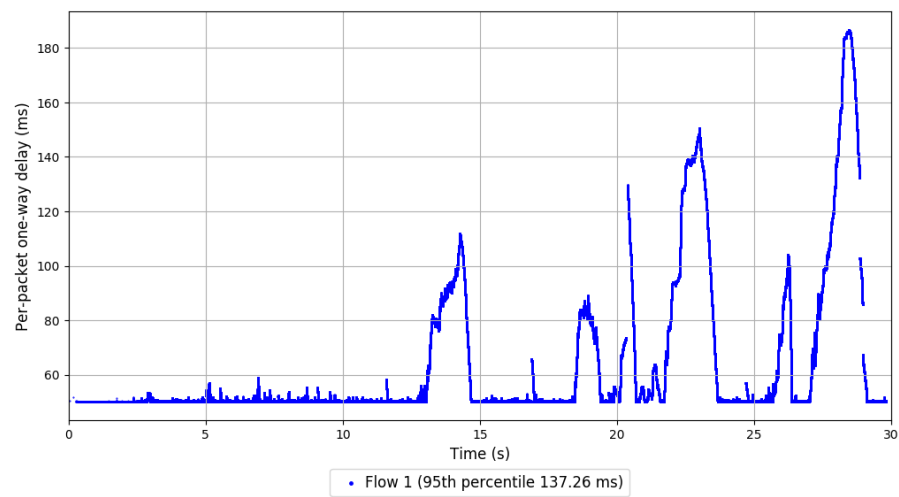
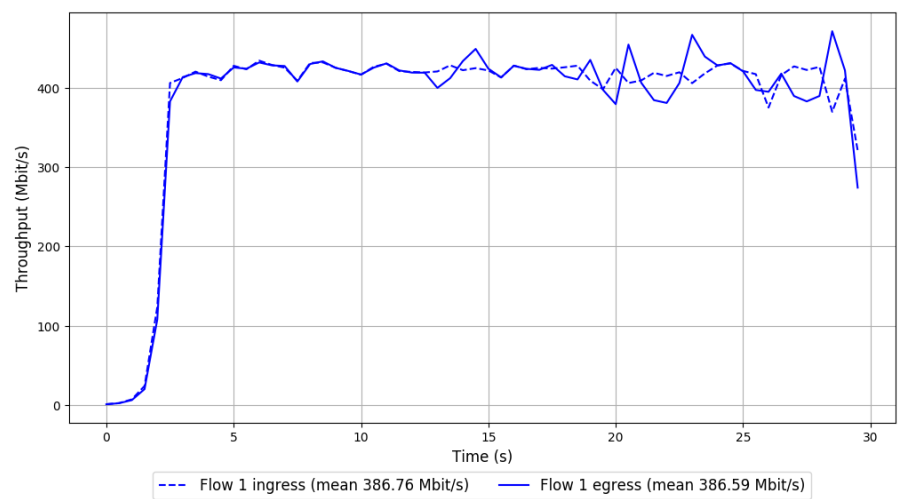


```
Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 12:04:40
End at: 2018-04-10 12:05:10

# Below is generated by plot.py at 2018-04-10 17:49:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 386.59 Mbit/s
95th percentile per-packet one-way delay: 137.256 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 386.59 Mbit/s
95th percentile per-packet one-way delay: 137.256 ms
Loss rate: 0.39%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 12:19:11

End at: 2018-04-10 12:19:41

Below is generated by plot.py at 2018-04-10 17:49:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.35 Mbit/s

95th percentile per-packet one-way delay: 195.610 ms

Loss rate: 0.89%

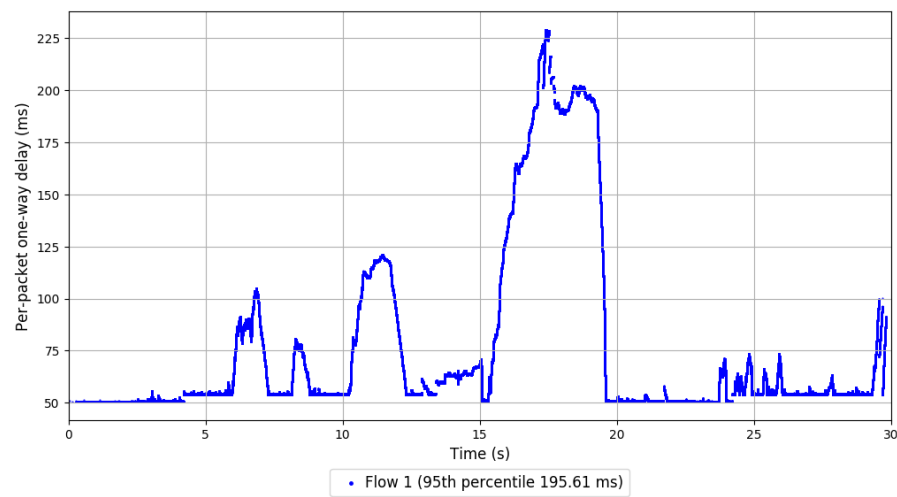
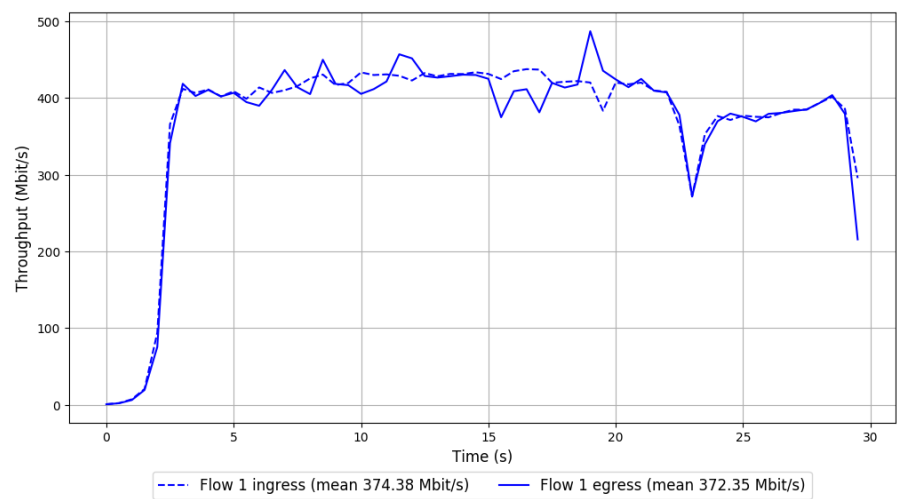
-- Flow 1:

Average throughput: 372.35 Mbit/s

95th percentile per-packet one-way delay: 195.610 ms

Loss rate: 0.89%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-10 12:33:17

End at: 2018-04-10 12:33:47

Below is generated by plot.py at 2018-04-10 17:49:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.31 Mbit/s

95th percentile per-packet one-way delay: 125.542 ms

Loss rate: 0.54%

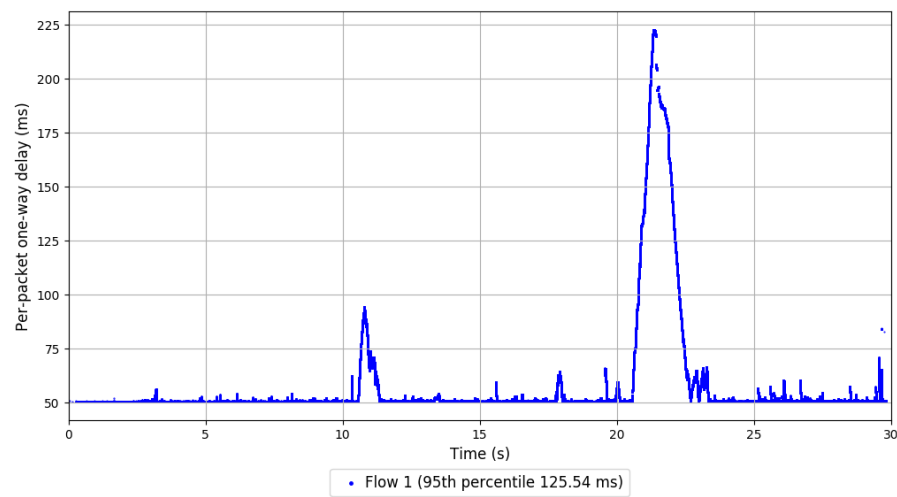
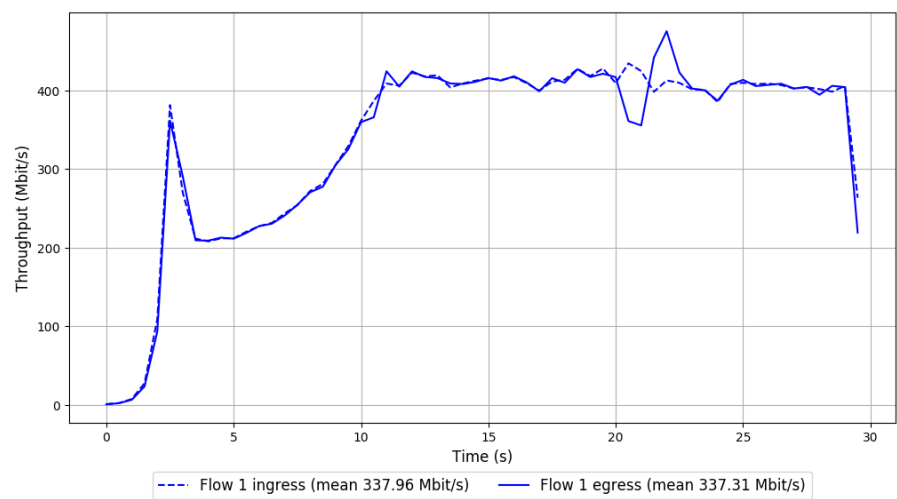
-- Flow 1:

Average throughput: 337.31 Mbit/s

95th percentile per-packet one-way delay: 125.542 ms

Loss rate: 0.54%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 12:47:02

End at: 2018-04-10 12:47:32

Below is generated by plot.py at 2018-04-10 17:49:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.67 Mbit/s

95th percentile per-packet one-way delay: 98.986 ms

Loss rate: 0.42%

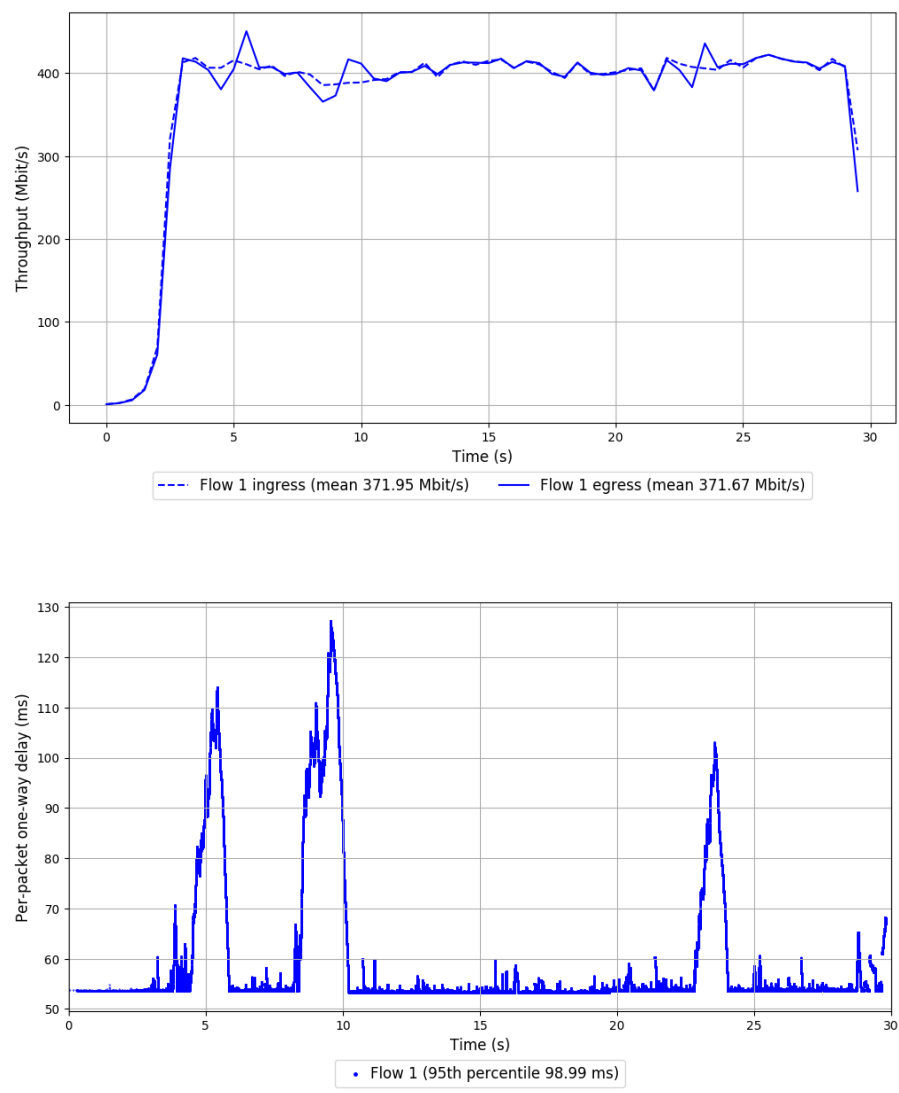
-- Flow 1:

Average throughput: 371.67 Mbit/s

95th percentile per-packet one-way delay: 98.986 ms

Loss rate: 0.42%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 13:01:00

End at: 2018-04-10 13:01:31

Below is generated by plot.py at 2018-04-10 17:52:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.02 Mbit/s

95th percentile per-packet one-way delay: 195.667 ms

Loss rate: 0.58%

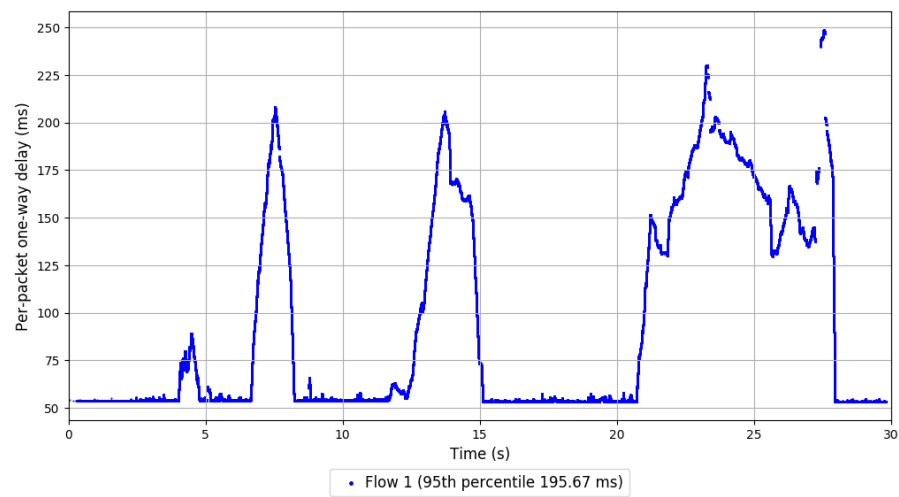
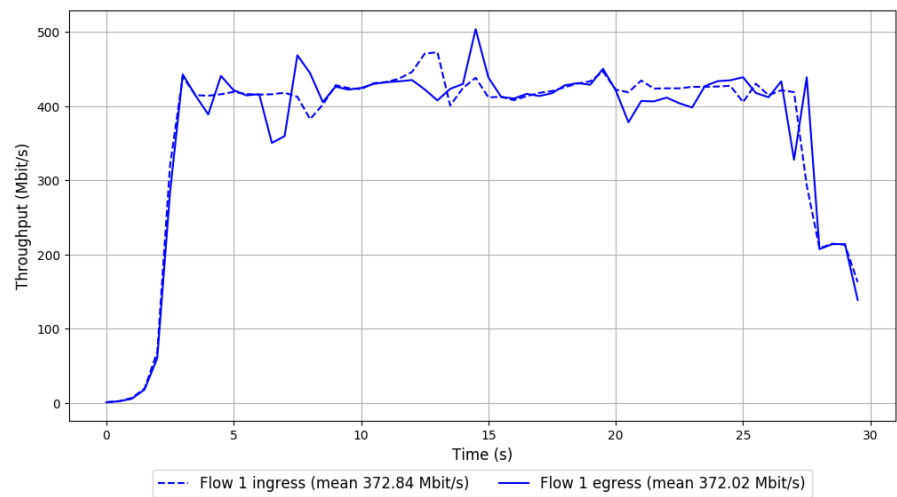
-- Flow 1:

Average throughput: 372.02 Mbit/s

95th percentile per-packet one-way delay: 195.667 ms

Loss rate: 0.58%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 13:15:03

End at: 2018-04-10 13:15:33

Below is generated by plot.py at 2018-04-10 17:53:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.03 Mbit/s

95th percentile per-packet one-way delay: 126.594 ms

Loss rate: 0.76%

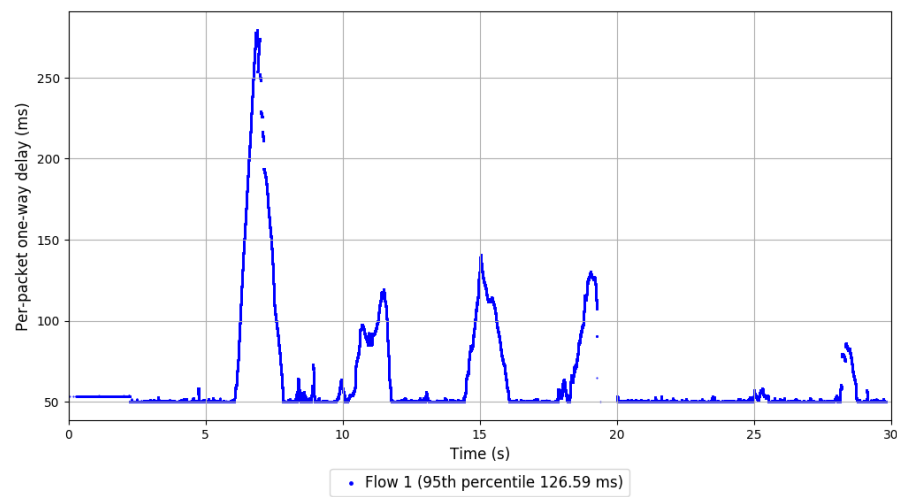
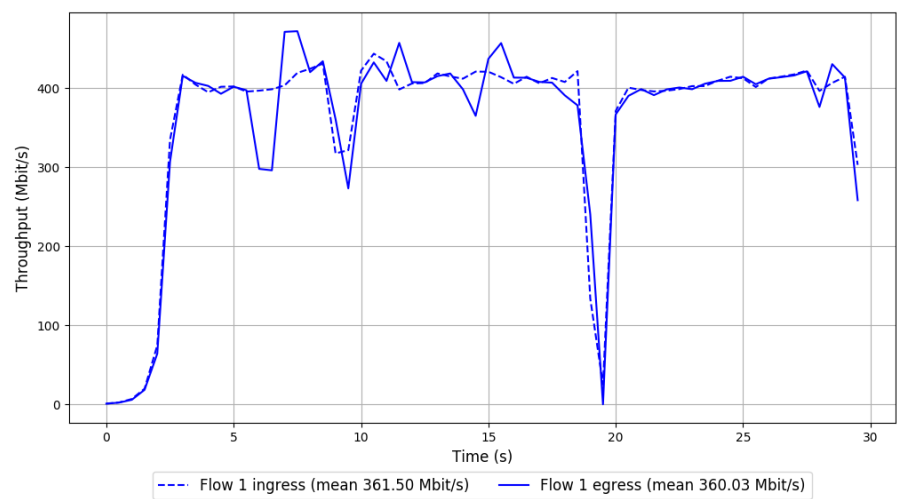
-- Flow 1:

Average throughput: 360.03 Mbit/s

95th percentile per-packet one-way delay: 126.594 ms

Loss rate: 0.76%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 13:29:08

End at: 2018-04-10 13:29:38

Below is generated by plot.py at 2018-04-10 17:53:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.20 Mbit/s

95th percentile per-packet one-way delay: 110.054 ms

Loss rate: 0.19%

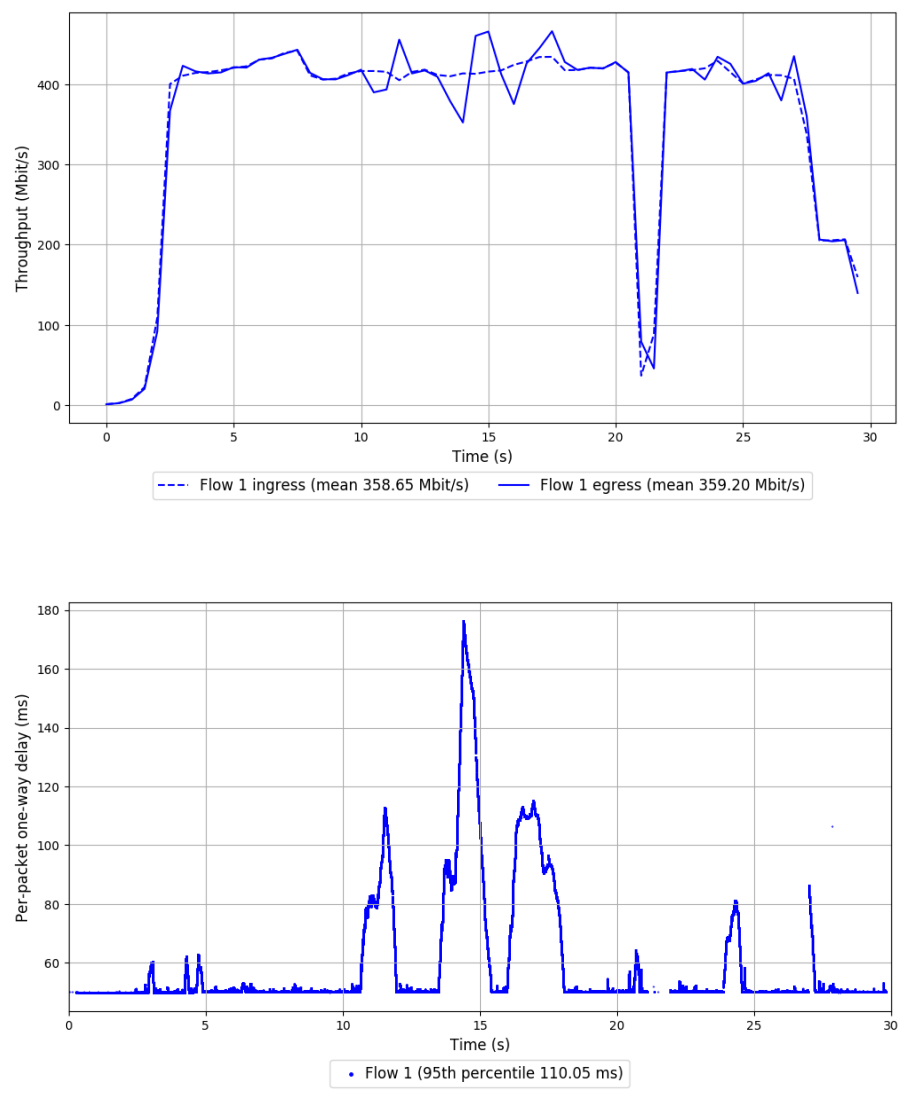
-- Flow 1:

Average throughput: 359.20 Mbit/s

95th percentile per-packet one-way delay: 110.054 ms

Loss rate: 0.19%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 13:43:25

End at: 2018-04-10 13:43:55

Below is generated by plot.py at 2018-04-10 17:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.78 Mbit/s

95th percentile per-packet one-way delay: 185.813 ms

Loss rate: 1.17%

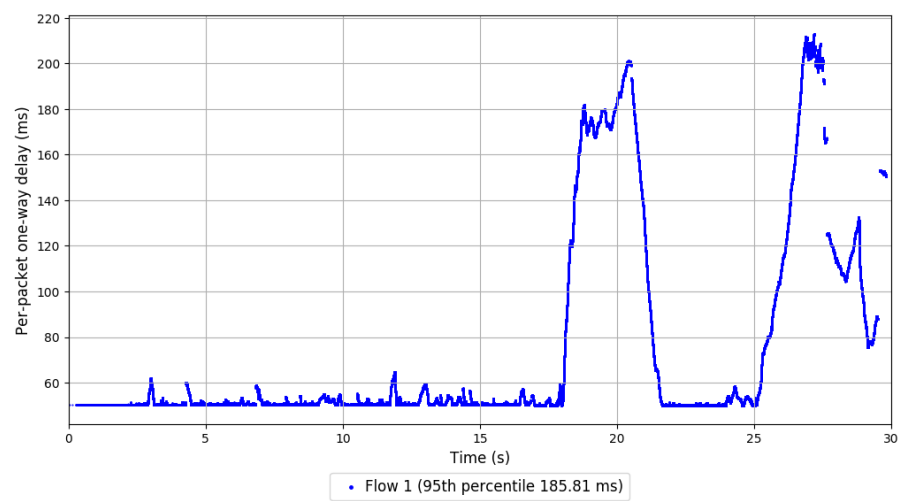
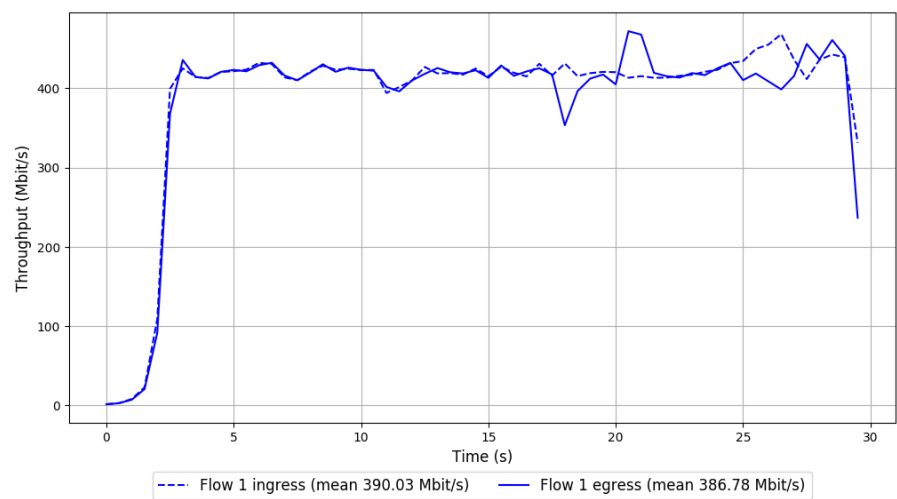
-- Flow 1:

Average throughput: 386.78 Mbit/s

95th percentile per-packet one-way delay: 185.813 ms

Loss rate: 1.17%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 13:57:37

End at: 2018-04-10 13:58:07

Below is generated by plot.py at 2018-04-10 17:56:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.63 Mbit/s

95th percentile per-packet one-way delay: 58.170 ms

Loss rate: 0.28%

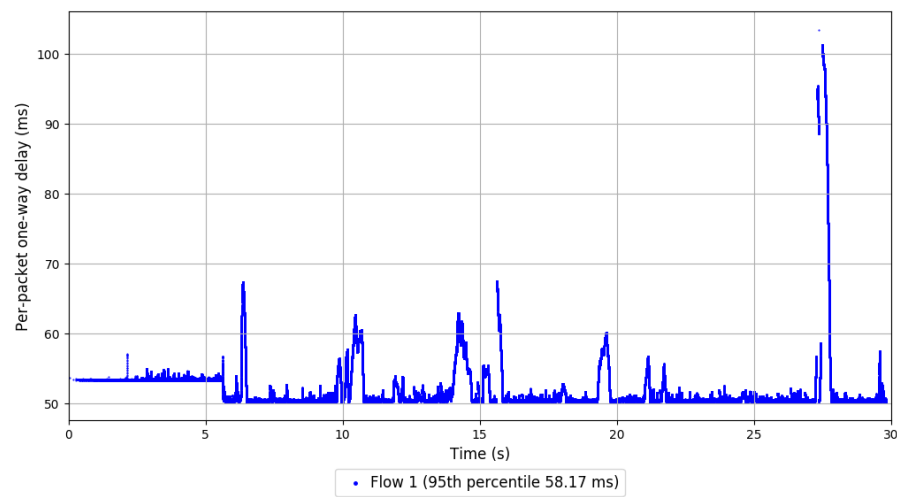
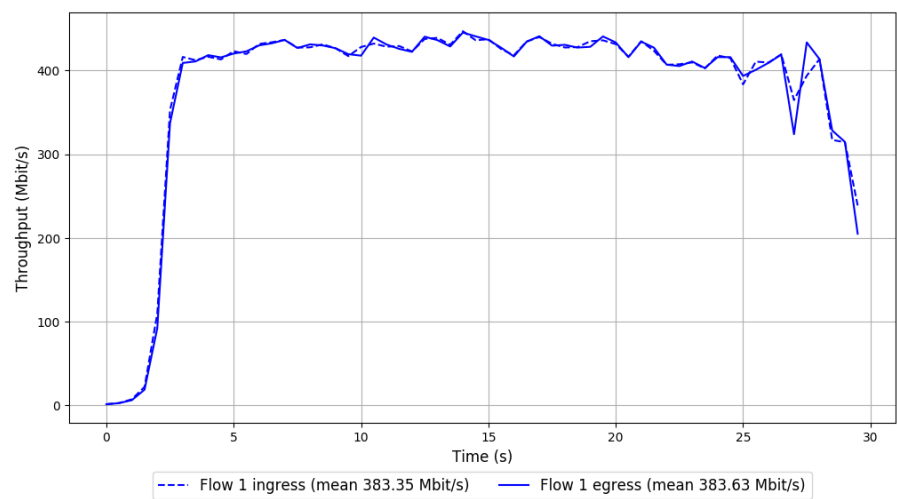
-- Flow 1:

Average throughput: 383.63 Mbit/s

95th percentile per-packet one-way delay: 58.170 ms

Loss rate: 0.28%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 11:53:15

End at: 2018-04-10 11:53:45

Below is generated by plot.py at 2018-04-10 17:56:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.25 Mbit/s

95th percentile per-packet one-way delay: 139.939 ms

Loss rate: 0.37%

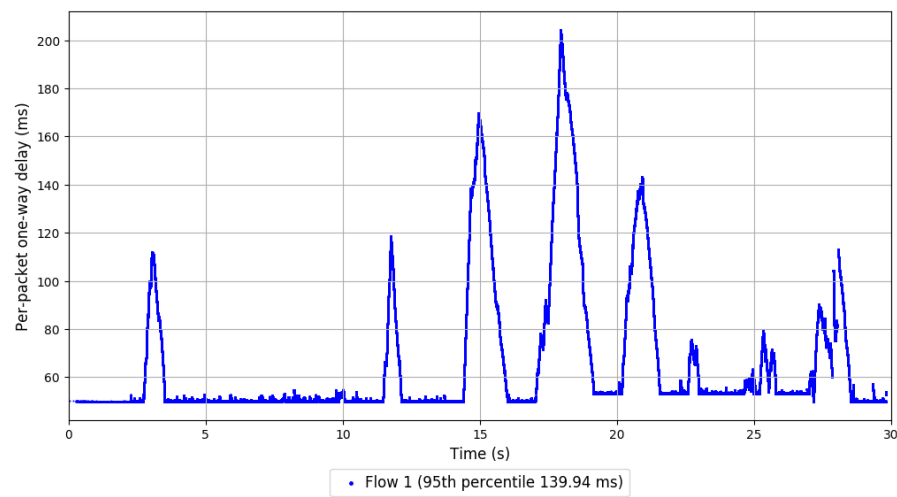
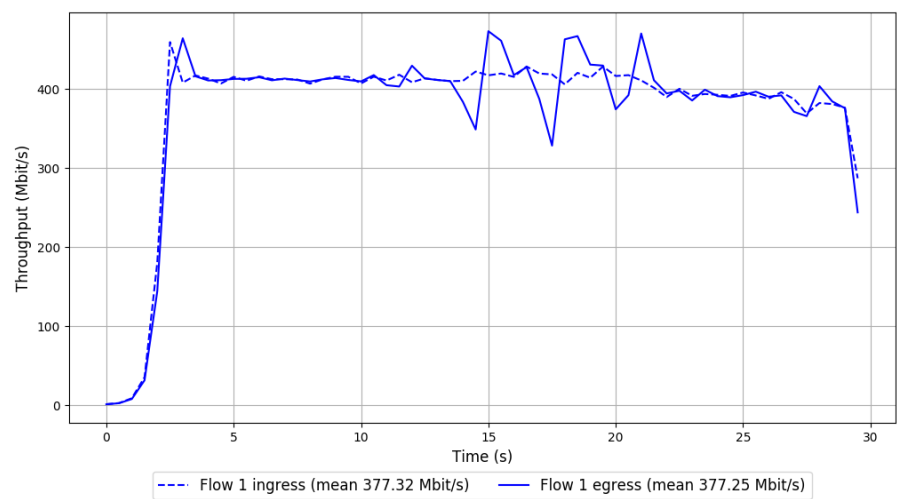
-- Flow 1:

Average throughput: 377.25 Mbit/s

95th percentile per-packet one-way delay: 139.939 ms

Loss rate: 0.37%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 12:07:42

End at: 2018-04-10 12:08:12

Below is generated by plot.py at 2018-04-10 17:56:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.41 Mbit/s

95th percentile per-packet one-way delay: 61.496 ms

Loss rate: 0.40%

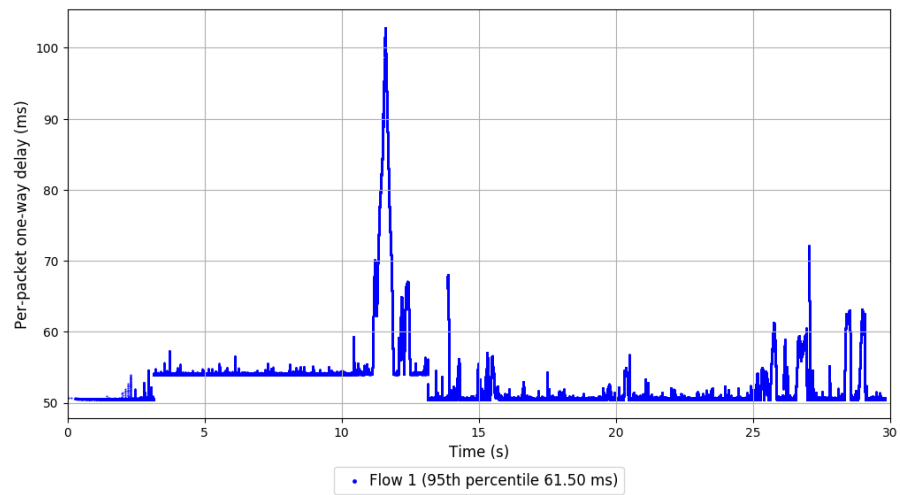
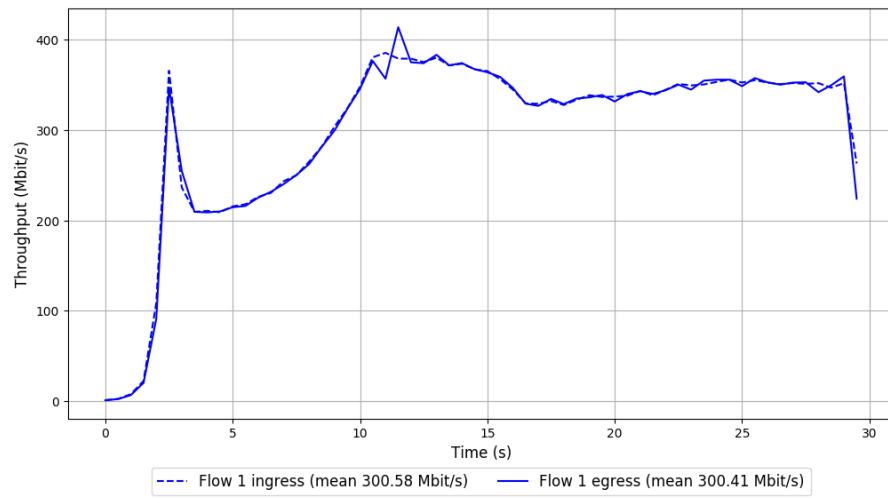
-- Flow 1:

Average throughput: 300.41 Mbit/s

95th percentile per-packet one-way delay: 61.496 ms

Loss rate: 0.40%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 12:21:53

End at: 2018-04-10 12:22:23

Below is generated by plot.py at 2018-04-10 17:56:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.19 Mbit/s

95th percentile per-packet one-way delay: 131.250 ms

Loss rate: 0.60%

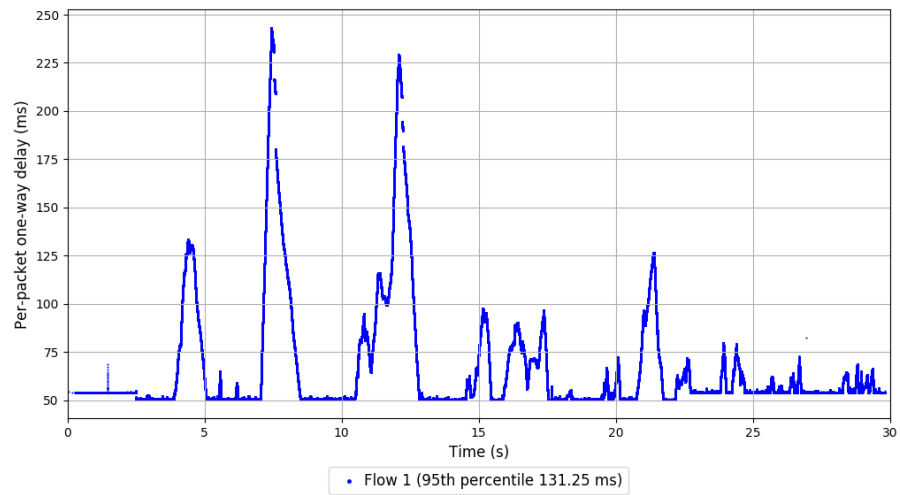
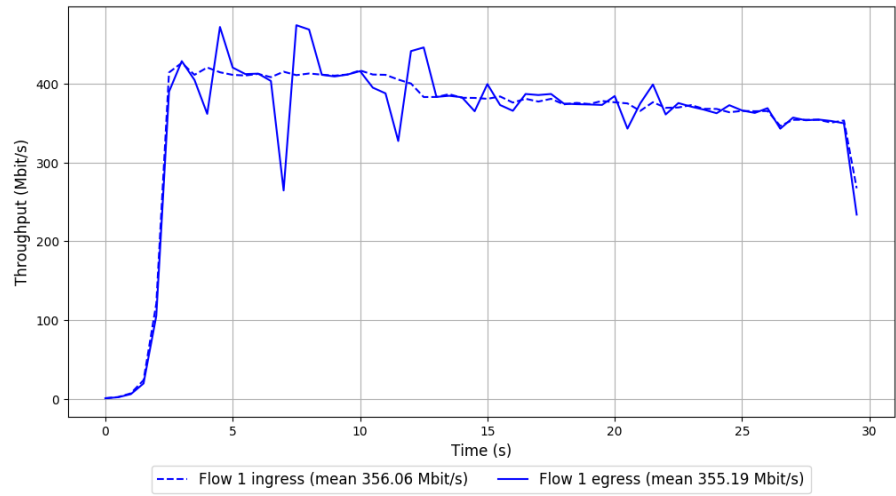
-- Flow 1:

Average throughput: 355.19 Mbit/s

95th percentile per-packet one-way delay: 131.250 ms

Loss rate: 0.60%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 12:35:58

End at: 2018-04-10 12:36:28

Below is generated by plot.py at 2018-04-10 17:58:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.65 Mbit/s

95th percentile per-packet one-way delay: 72.035 ms

Loss rate: 0.41%

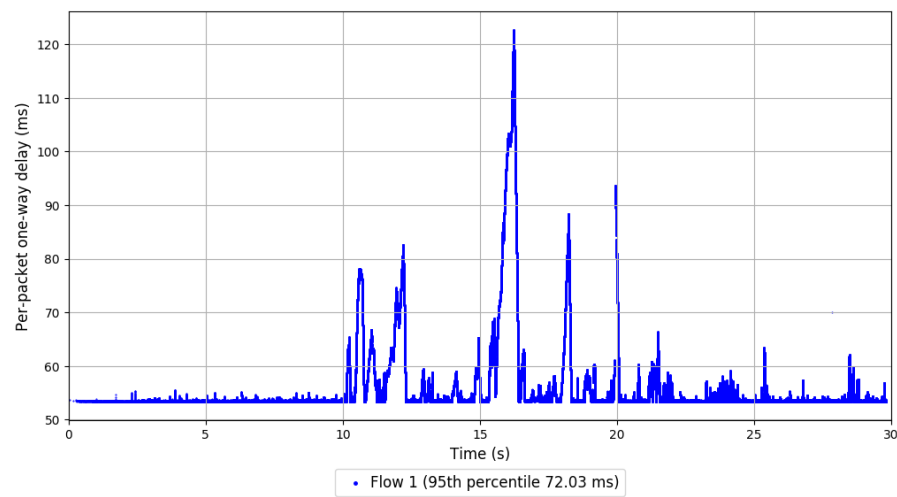
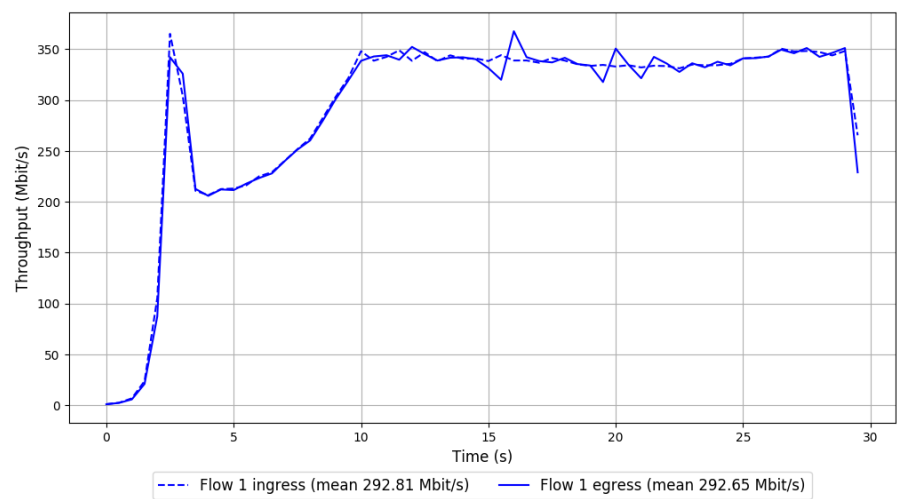
-- Flow 1:

Average throughput: 292.65 Mbit/s

95th percentile per-packet one-way delay: 72.035 ms

Loss rate: 0.41%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 12:49:42

End at: 2018-04-10 12:50:12

Below is generated by plot.py at 2018-04-10 17:58:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.87 Mbit/s

95th percentile per-packet one-way delay: 143.143 ms

Loss rate: 0.75%

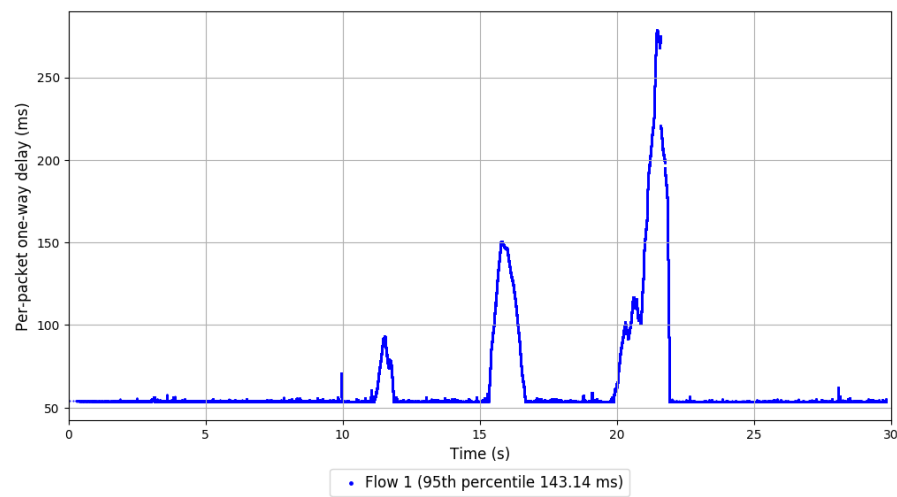
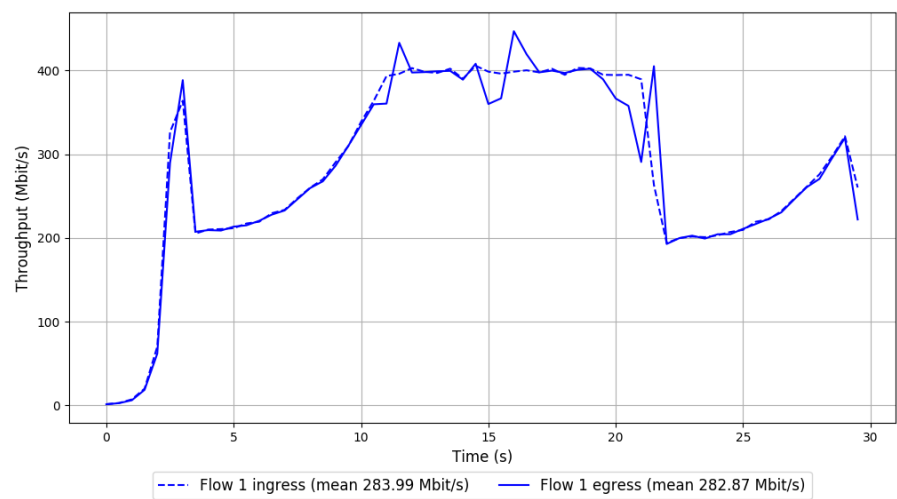
-- Flow 1:

Average throughput: 282.87 Mbit/s

95th percentile per-packet one-way delay: 143.143 ms

Loss rate: 0.75%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 13:03:40

End at: 2018-04-10 13:04:10

Below is generated by plot.py at 2018-04-10 17:59:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.36 Mbit/s

95th percentile per-packet one-way delay: 84.417 ms

Loss rate: 0.36%

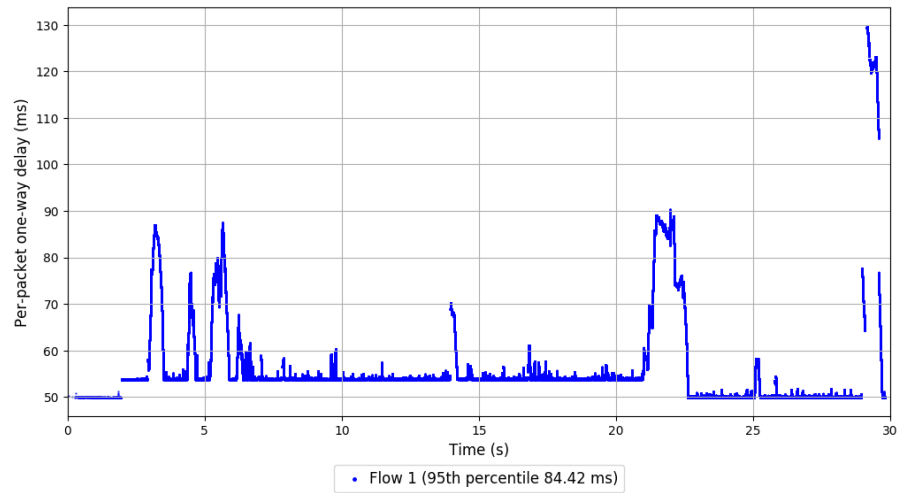
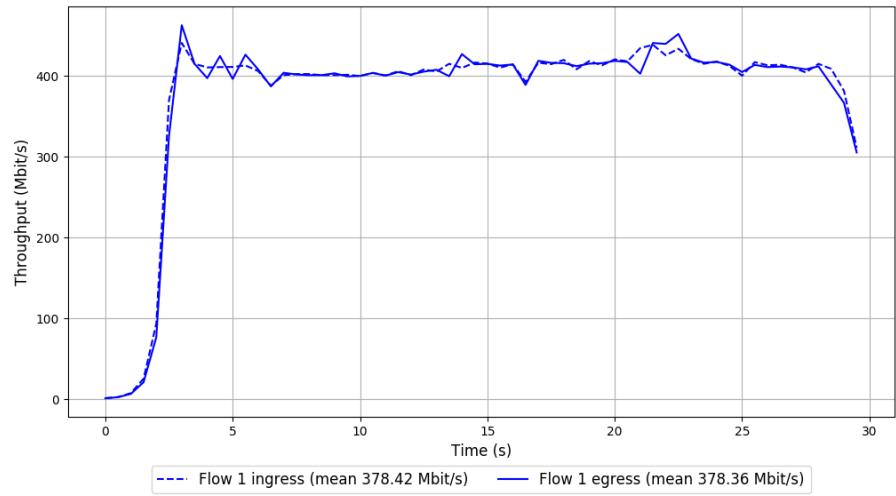
-- Flow 1:

Average throughput: 378.36 Mbit/s

95th percentile per-packet one-way delay: 84.417 ms

Loss rate: 0.36%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 13:17:41

End at: 2018-04-10 13:18:11

Below is generated by plot.py at 2018-04-10 18:00:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.85 Mbit/s

95th percentile per-packet one-way delay: 139.418 ms

Loss rate: 0.49%

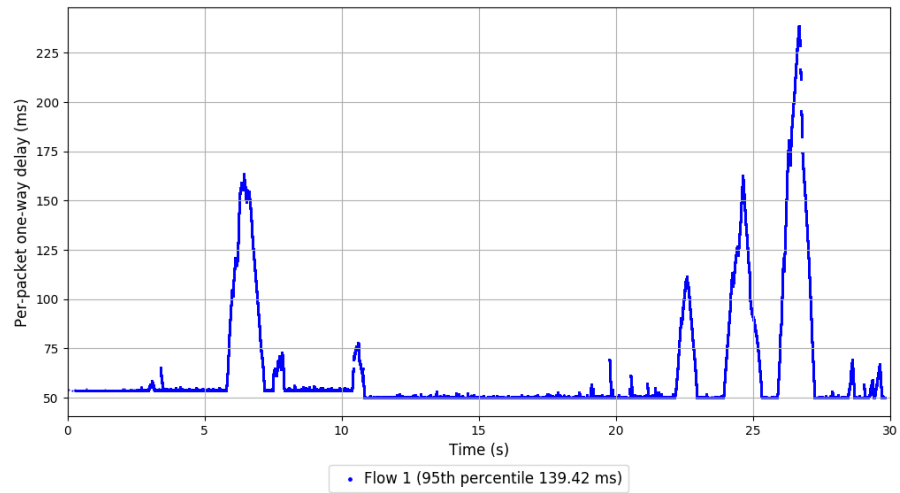
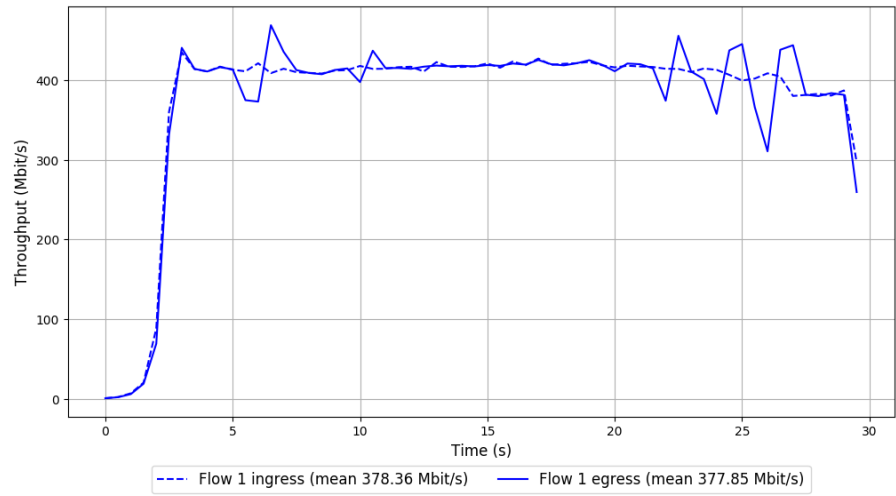
-- Flow 1:

Average throughput: 377.85 Mbit/s

95th percentile per-packet one-way delay: 139.418 ms

Loss rate: 0.49%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 13:31:55

End at: 2018-04-10 13:32:25

Below is generated by plot.py at 2018-04-10 18:00:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.72 Mbit/s

95th percentile per-packet one-way delay: 168.480 ms

Loss rate: 0.48%

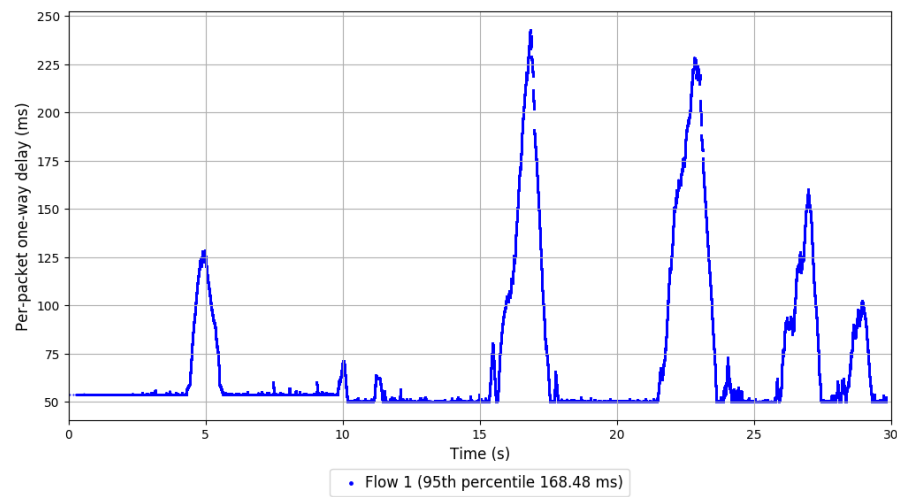
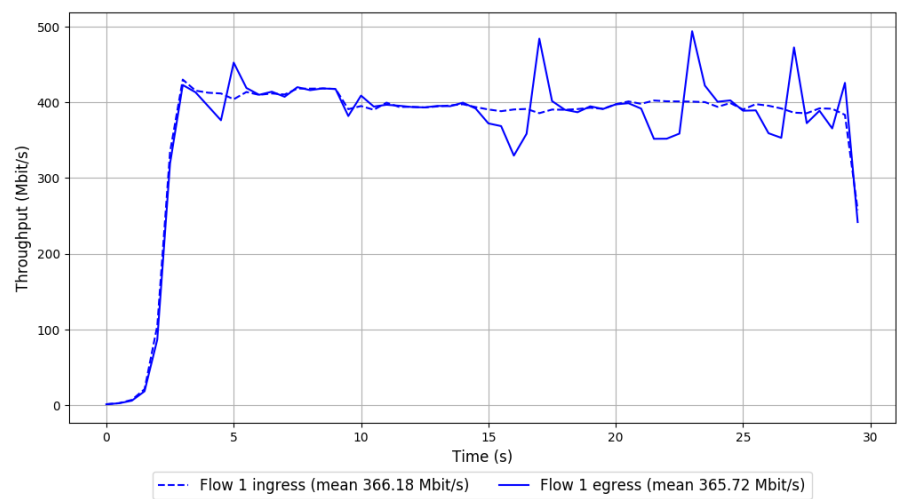
-- Flow 1:

Average throughput: 365.72 Mbit/s

95th percentile per-packet one-way delay: 168.480 ms

Loss rate: 0.48%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 13:46:10

End at: 2018-04-10 13:46:40

Below is generated by plot.py at 2018-04-10 18:00:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.04 Mbit/s

95th percentile per-packet one-way delay: 52.419 ms

Loss rate: 0.44%

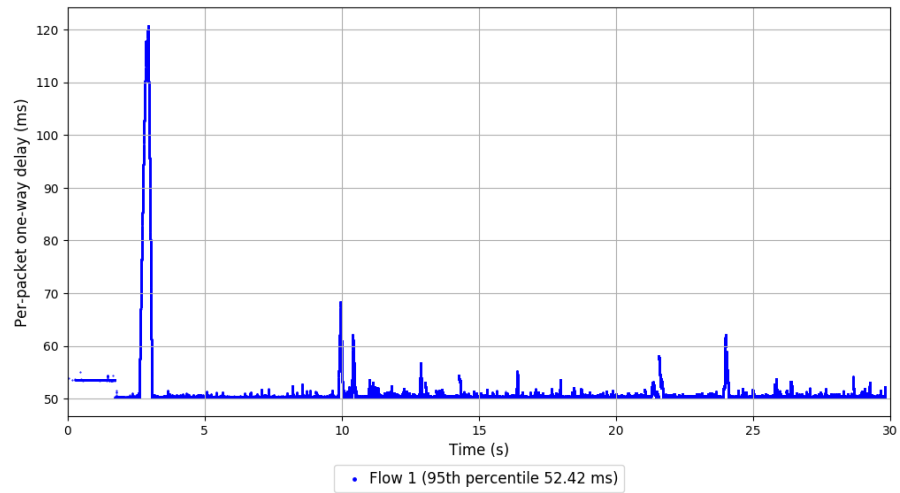
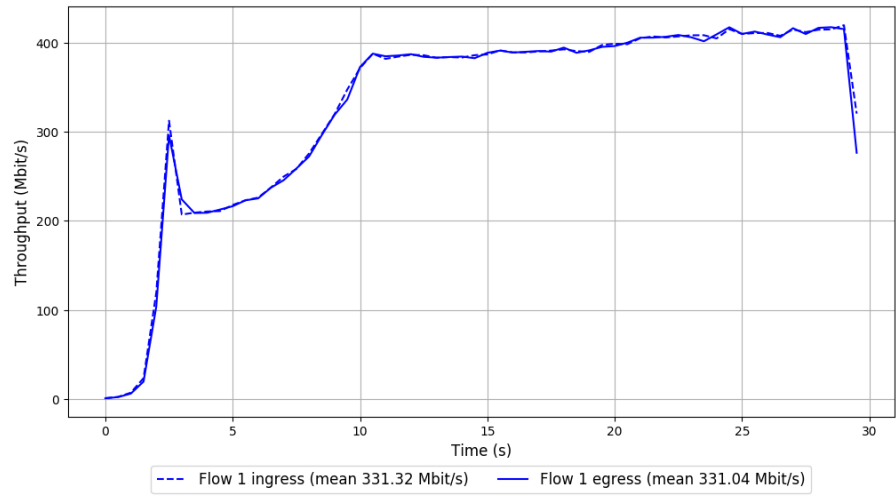
-- Flow 1:

Average throughput: 331.04 Mbit/s

95th percentile per-packet one-way delay: 52.419 ms

Loss rate: 0.44%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 14:00:29
End at: 2018-04-10 14:00:59

# Below is generated by plot.py at 2018-04-10 18:00:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 345.67 Mbit/s
95th percentile per-packet one-way delay: 57.483 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 345.67 Mbit/s
95th percentile per-packet one-way delay: 57.483 ms
Loss rate: 0.35%
```

Run 10: Report of Vivace-LTE — Data Link

