

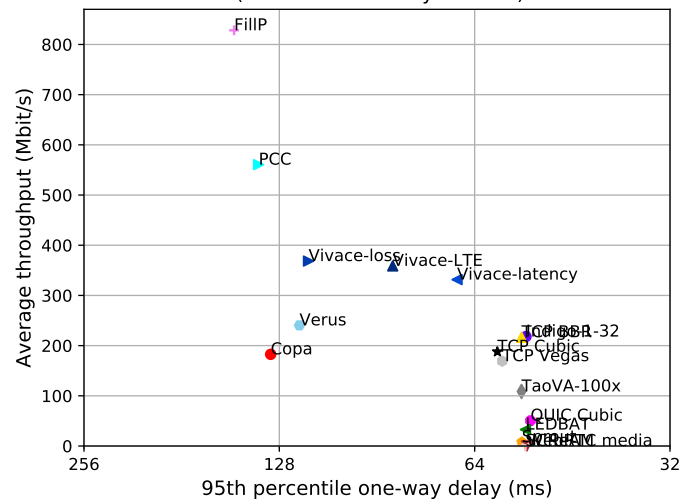
Pantheon Report

Generated at 2018-03-27 12:06:29 (UTC).
Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

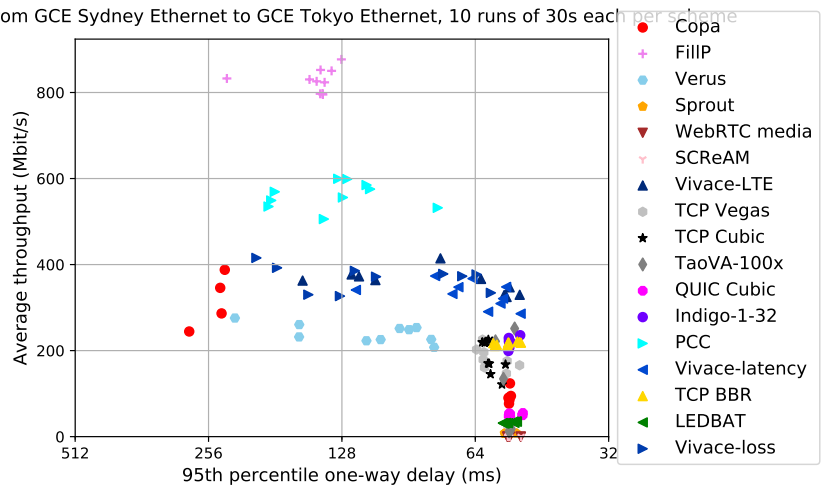
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ceec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	216.70	54.20	0.01
TCP Cubic	10	187.87	59.05	0.01
LEDBAT	10	32.72	53.45	0.02
PCC	10	560.53	137.74	0.74
QUIC Cubic	10	50.47	52.50	0.01
SCReAM	10	0.21	53.45	0.00
WebRTC media	10	0.06	53.21	0.00
Sprout	10	7.84	54.14	0.00
TaoVA-100x	6	108.78	54.20	0.00
TCP Vegas	10	169.08	58.03	0.01
Verus	10	240.38	119.19	0.60
Copa	10	182.64	131.99	14.39
FillP	10	828.24	150.28	9.26
Indigo-1-32	10	218.09	53.35	0.00
Vivace-latency	10	331.57	68.13	0.02
Vivace-loss	10	368.44	115.40	0.59
Vivace-LTE	10	358.88	85.60	0.11

Run 1: Statistics of TCP BBR

Start at: 2018-03-27 05:54:38

End at: 2018-03-27 05:55:08

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.05 Mbit/s

95th percentile per-packet one-way delay: 51.430 ms

Loss rate: 0.00%

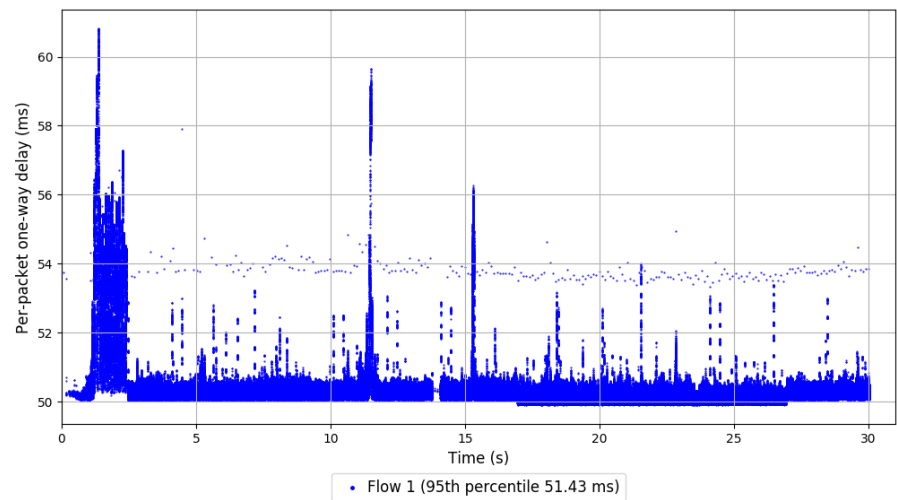
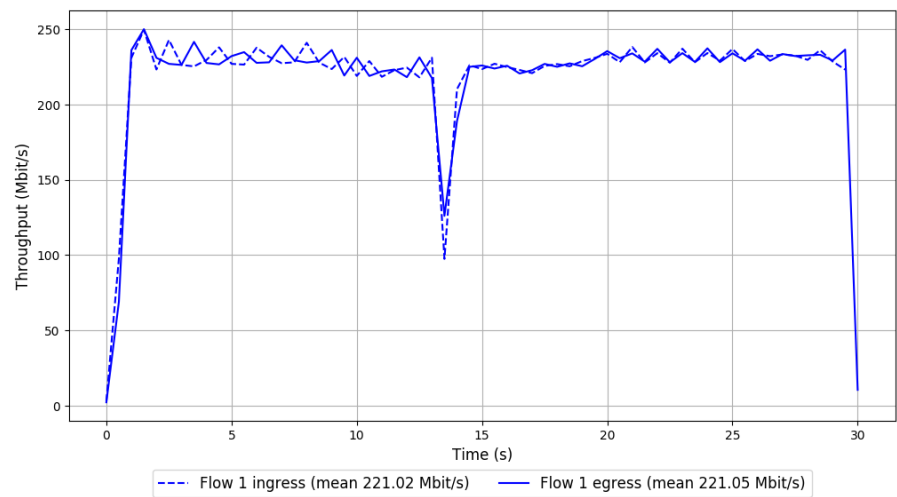
-- Flow 1:

Average throughput: 221.05 Mbit/s

95th percentile per-packet one-way delay: 51.430 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-27 06:08:50

End at: 2018-03-27 06:09:20

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.29 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 0.00%

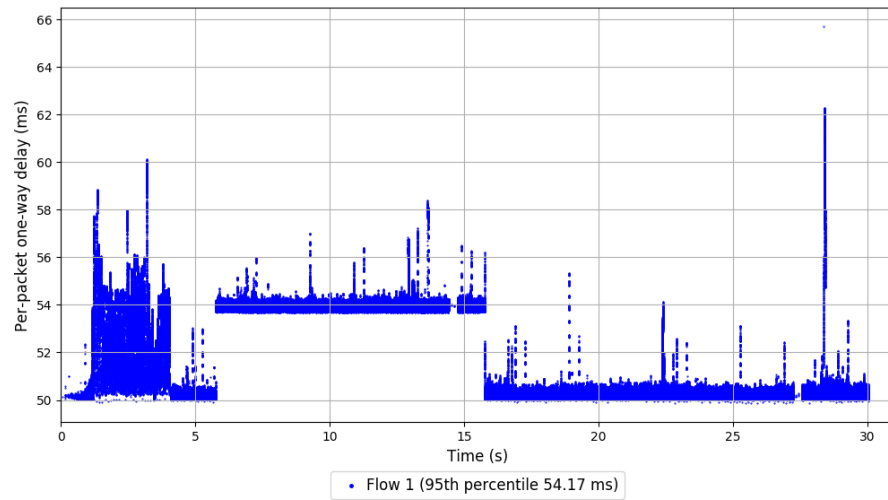
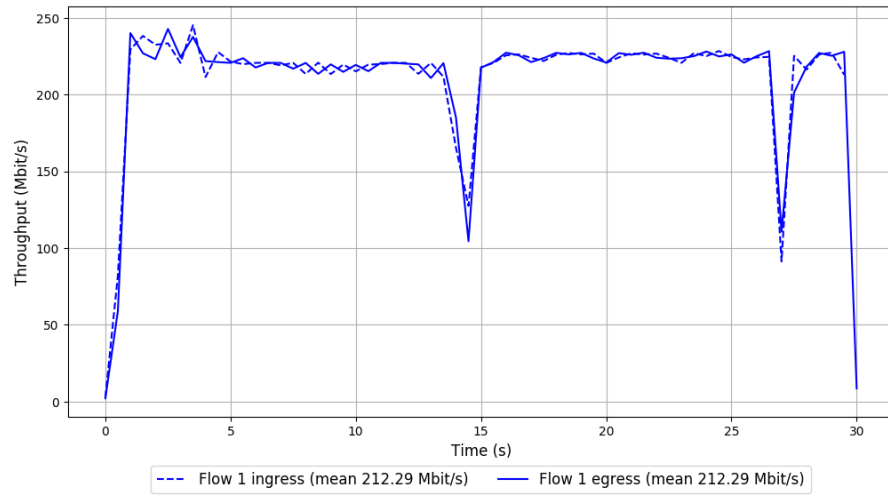
-- Flow 1:

Average throughput: 212.29 Mbit/s

95th percentile per-packet one-way delay: 54.175 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-27 06:23:23

End at: 2018-03-27 06:23:53

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.41 Mbit/s

95th percentile per-packet one-way delay: 58.286 ms

Loss rate: 0.11%

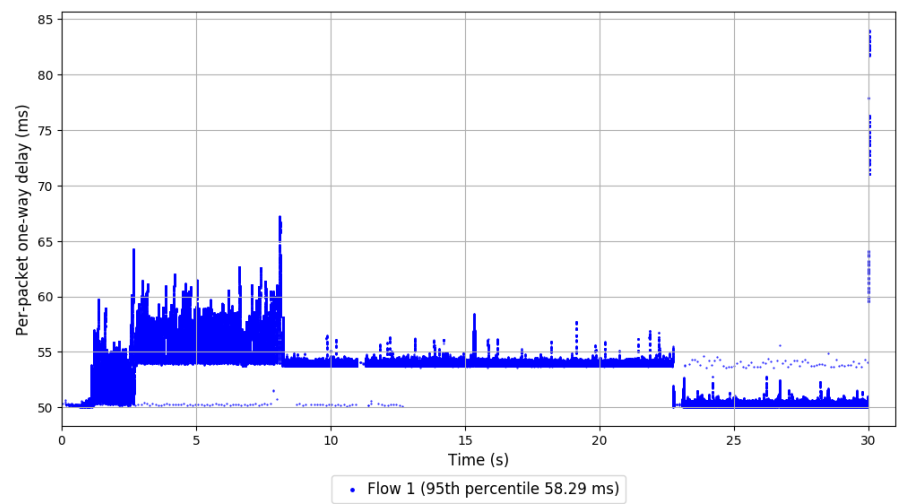
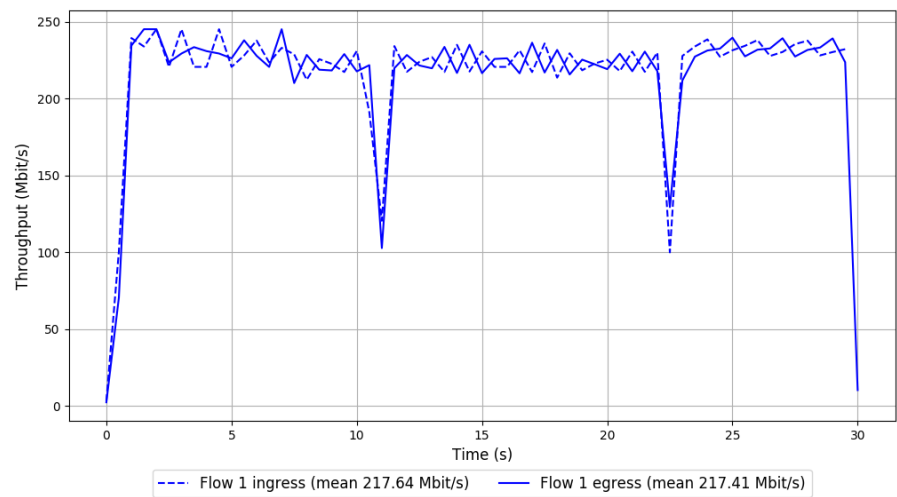
-- Flow 1:

Average throughput: 217.41 Mbit/s

95th percentile per-packet one-way delay: 58.286 ms

Loss rate: 0.11%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-27 06:37:35

End at: 2018-03-27 06:38:05

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 57.799 ms

Loss rate: 0.02%

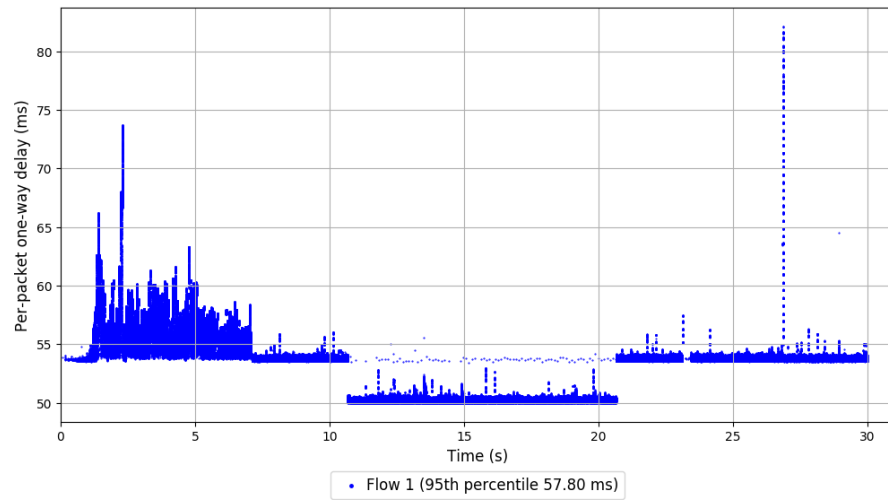
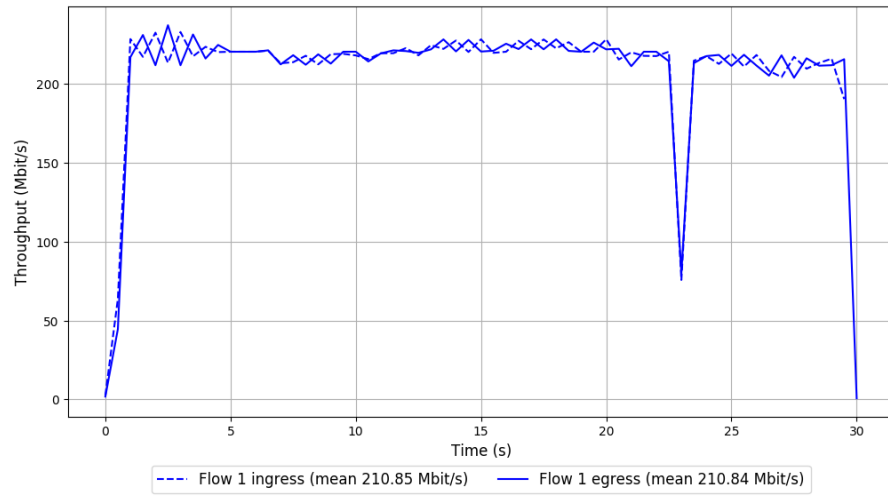
-- Flow 1:

Average throughput: 210.84 Mbit/s

95th percentile per-packet one-way delay: 57.799 ms

Loss rate: 0.02%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-27 06:52:31

End at: 2018-03-27 06:53:01

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.72 Mbit/s

95th percentile per-packet one-way delay: 57.242 ms

Loss rate: 0.01%

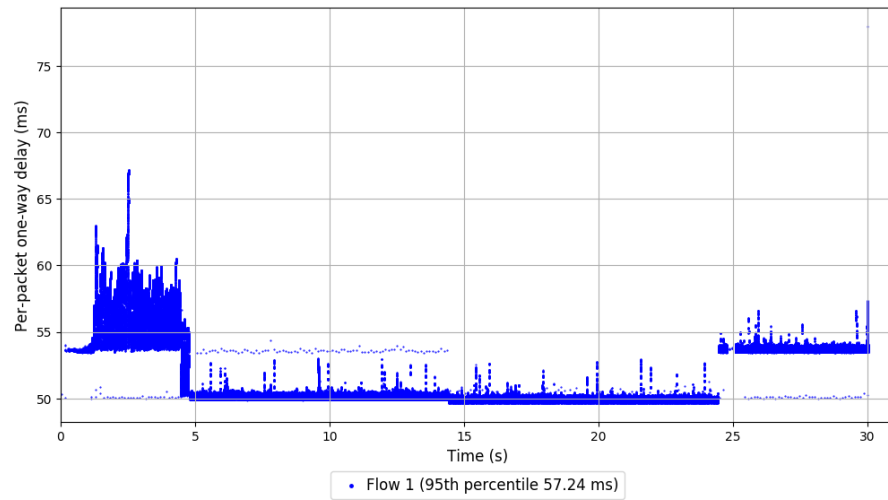
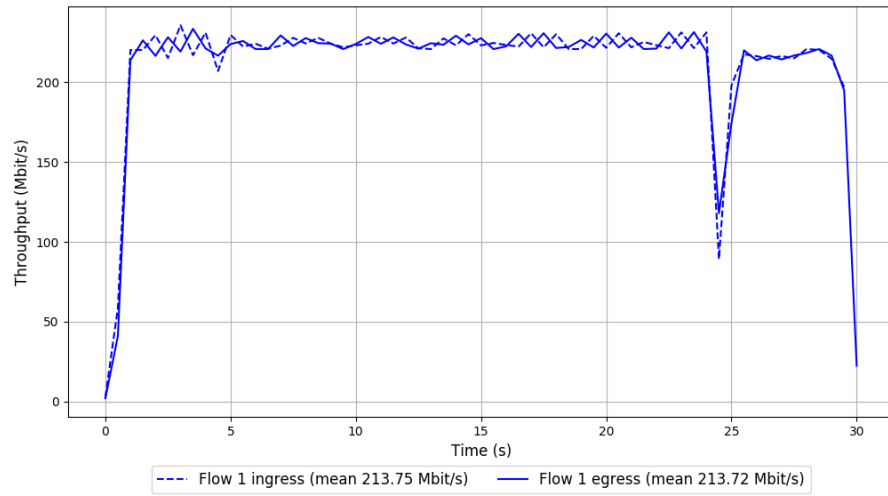
-- Flow 1:

Average throughput: 213.72 Mbit/s

95th percentile per-packet one-way delay: 57.242 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-27 07:06:42

End at: 2018-03-27 07:07:12

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.36 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.00%

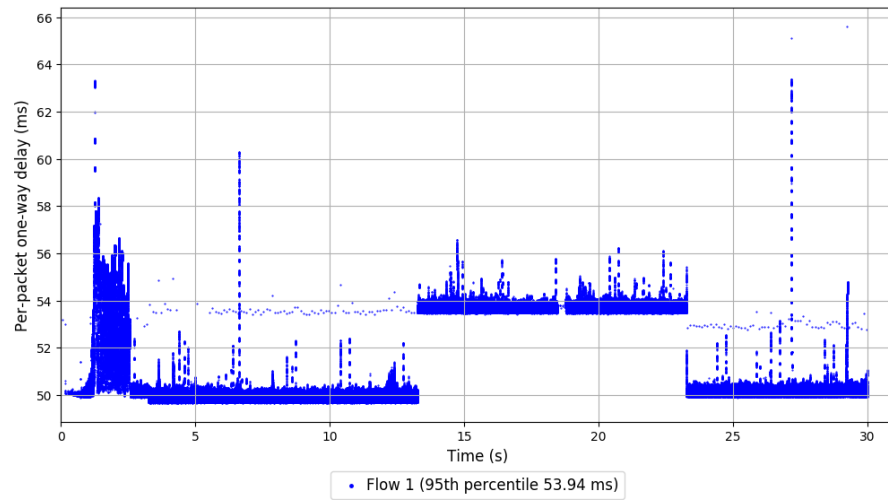
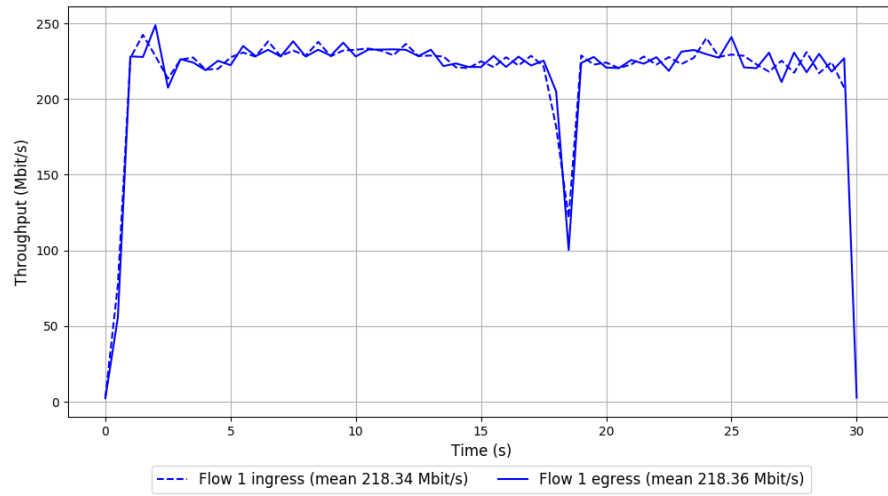
-- Flow 1:

Average throughput: 218.36 Mbit/s

95th percentile per-packet one-way delay: 53.936 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-03-27 07:21:01

End at: 2018-03-27 07:21:31

Below is generated by plot.py at 2018-03-27 10:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.38 Mbit/s

95th percentile per-packet one-way delay: 50.492 ms

Loss rate: 0.00%

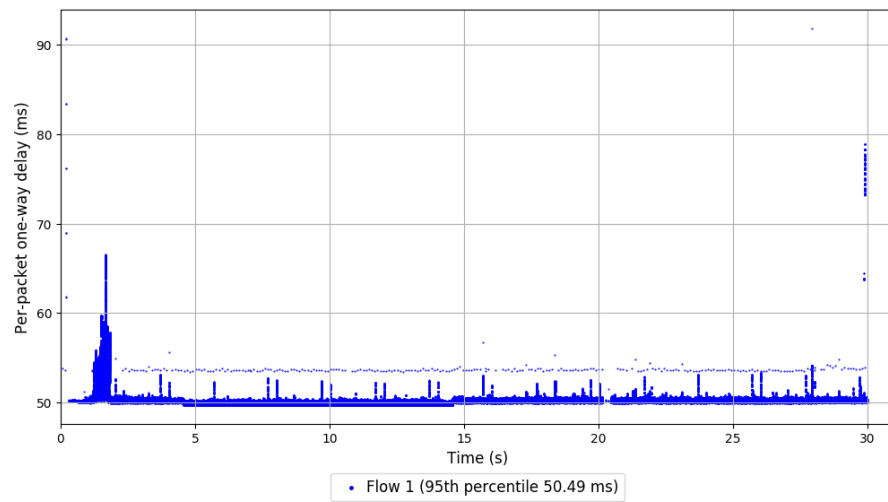
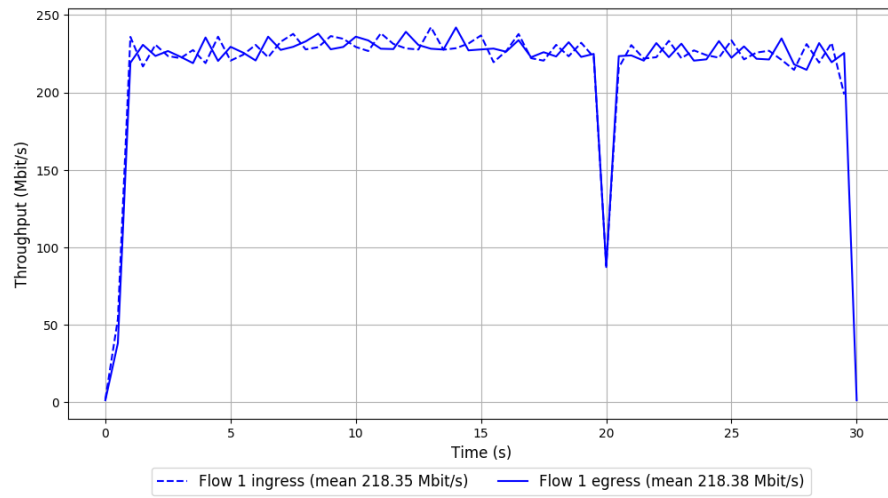
-- Flow 1:

Average throughput: 218.38 Mbit/s

95th percentile per-packet one-way delay: 50.492 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-03-27 07:35:39

End at: 2018-03-27 07:36:09

Below is generated by plot.py at 2018-03-27 10:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.00%

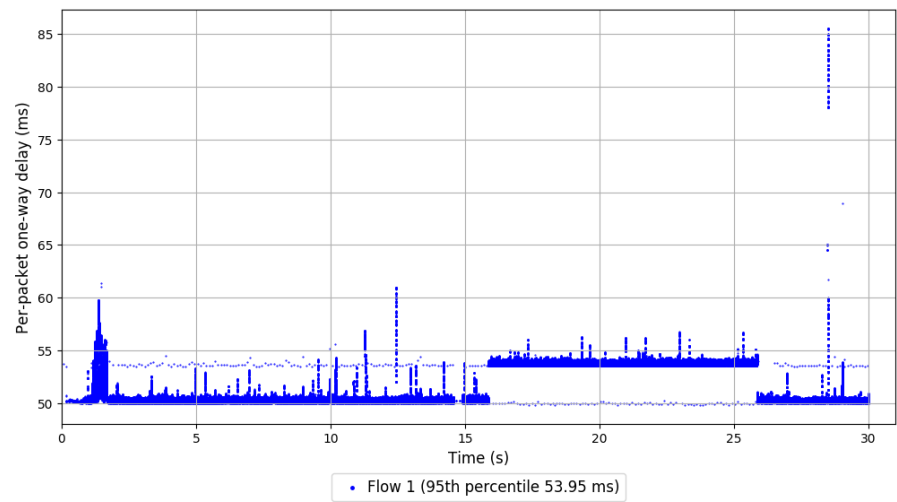
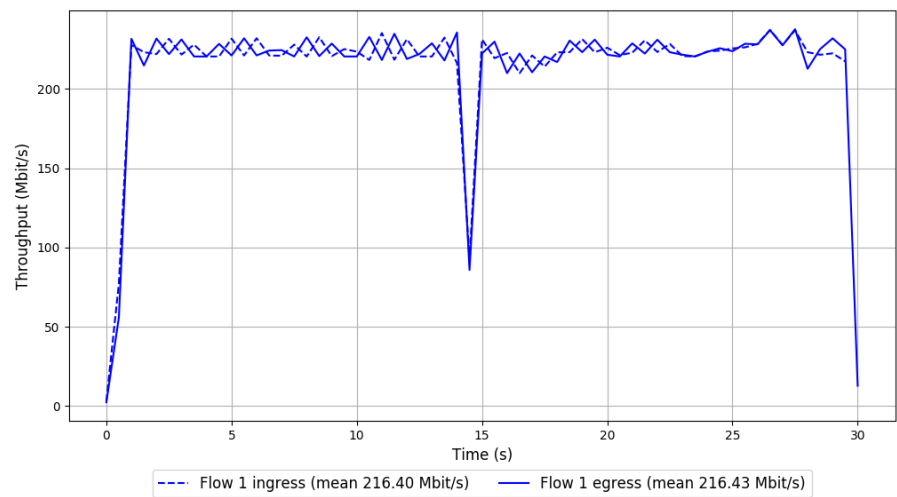
-- Flow 1:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-27 07:50:17

End at: 2018-03-27 07:50:47

Below is generated by plot.py at 2018-03-27 10:21:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.82 Mbit/s

95th percentile per-packet one-way delay: 53.819 ms

Loss rate: 0.00%

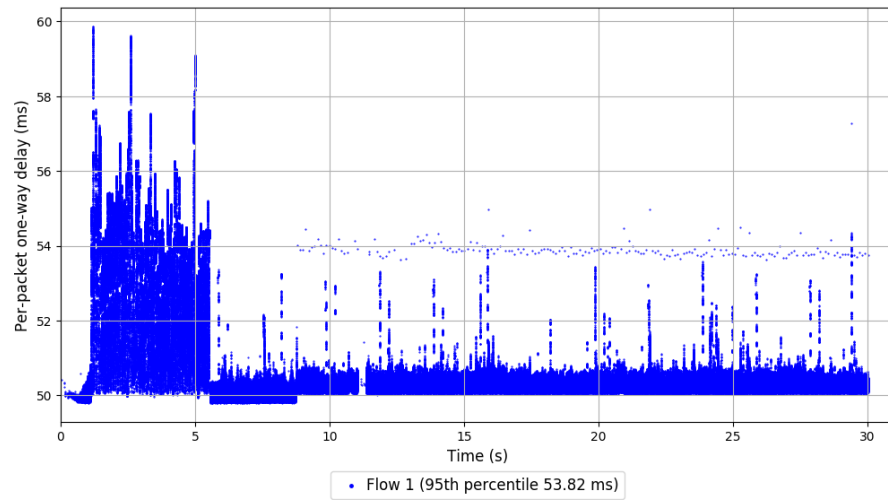
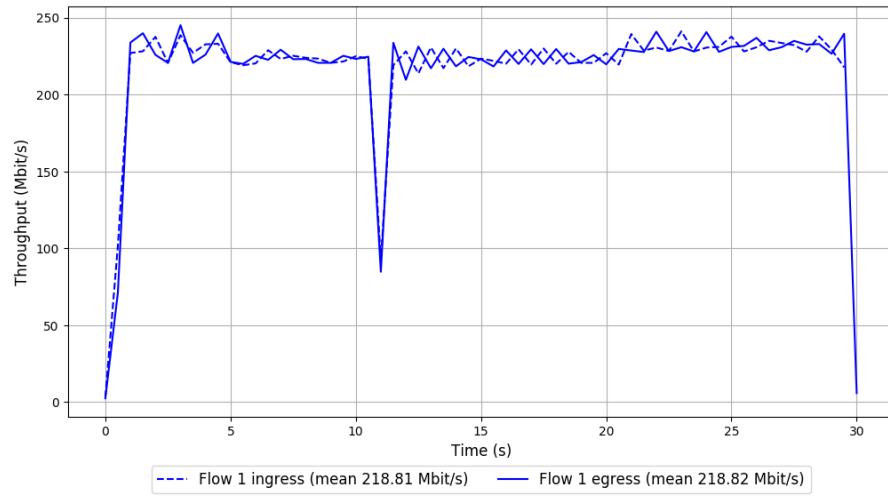
-- Flow 1:

Average throughput: 218.82 Mbit/s

95th percentile per-packet one-way delay: 53.819 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-27 08:04:50

End at: 2018-03-27 08:05:20

Below is generated by plot.py at 2018-03-27 10:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.72 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.00%

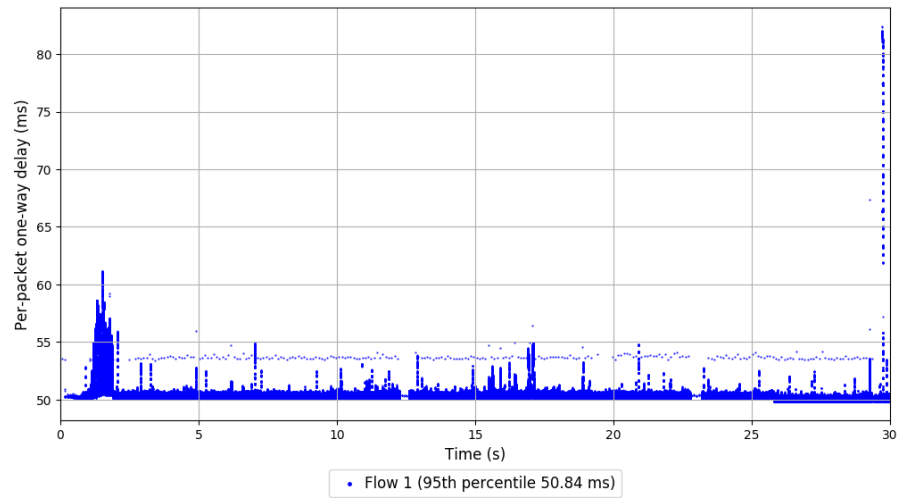
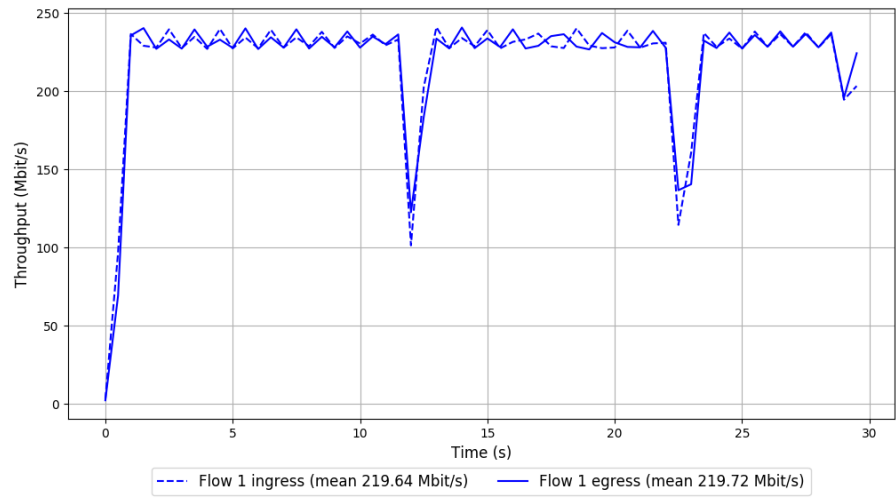
-- Flow 1:

Average throughput: 219.72 Mbit/s

95th percentile per-packet one-way delay: 50.840 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-27 05:56:47

End at: 2018-03-27 05:57:17

Below is generated by plot.py at 2018-03-27 10:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.23 Mbit/s

95th percentile per-packet one-way delay: 60.941 ms

Loss rate: 0.02%

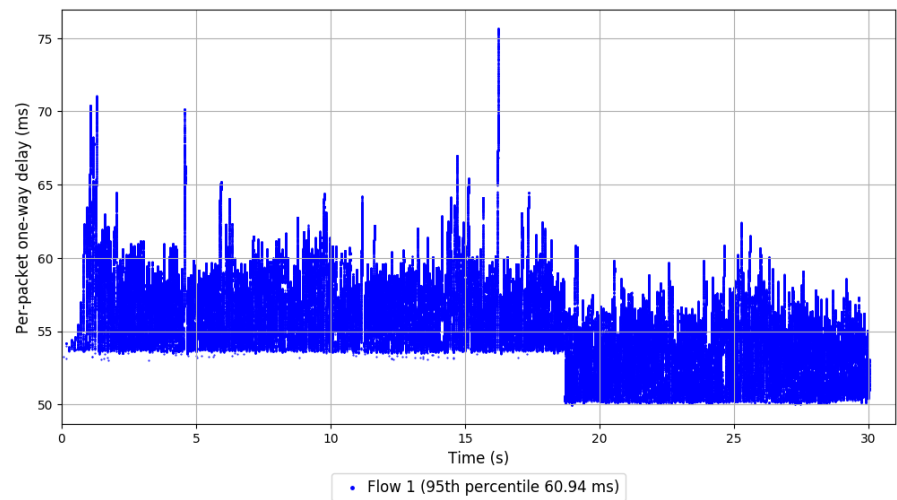
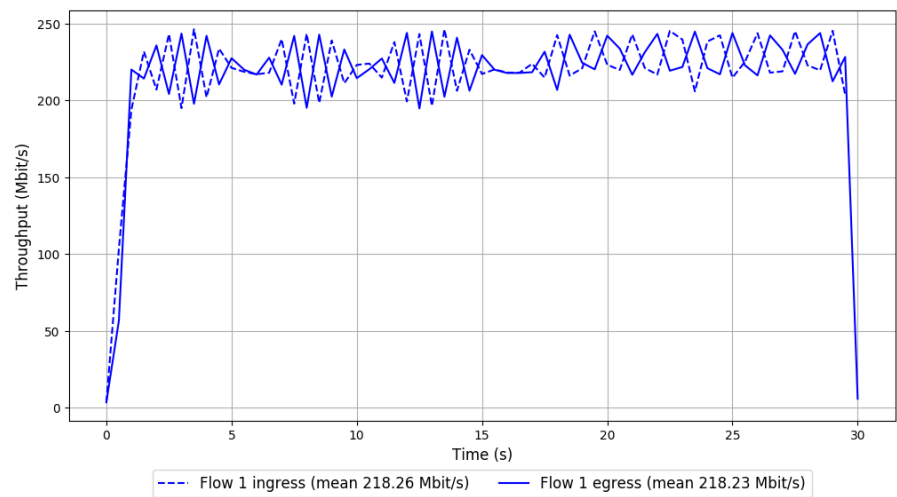
-- Flow 1:

Average throughput: 218.23 Mbit/s

95th percentile per-packet one-way delay: 60.941 ms

Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-03-27 06:11:17

End at: 2018-03-27 06:11:47

Below is generated by plot.py at 2018-03-27 10:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.72 Mbit/s

95th percentile per-packet one-way delay: 54.695 ms

Loss rate: 0.03%

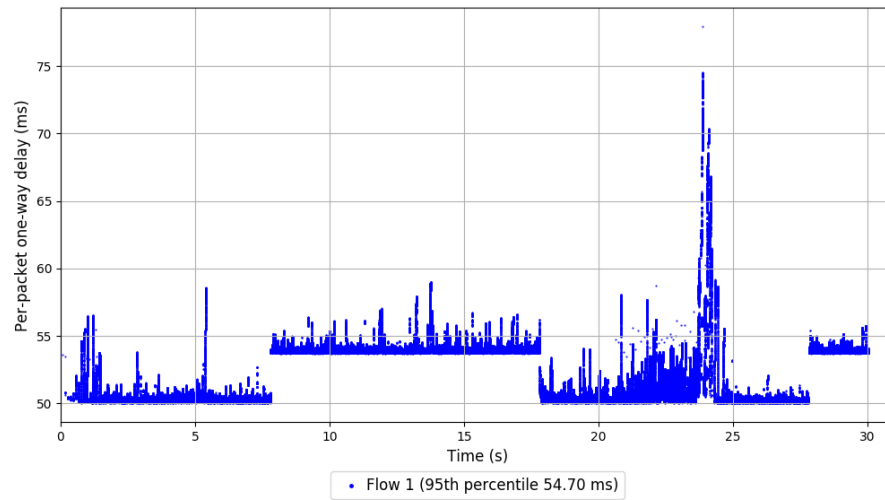
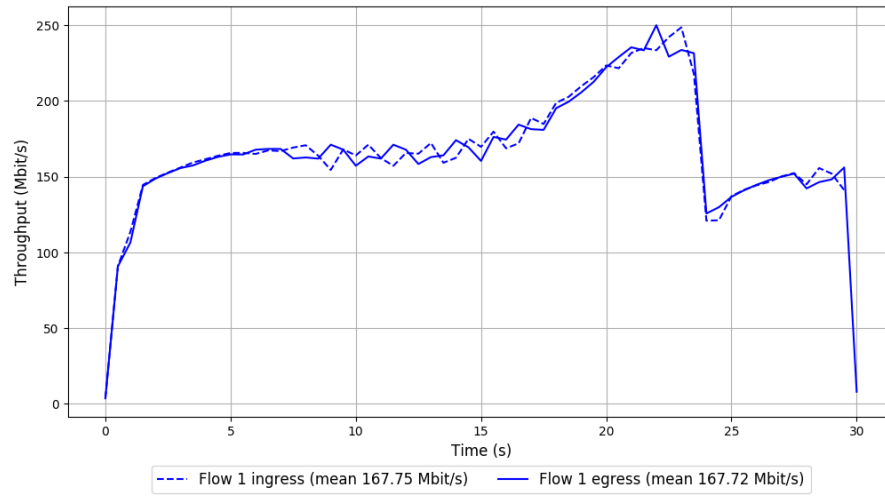
-- Flow 1:

Average throughput: 167.72 Mbit/s

95th percentile per-packet one-way delay: 54.695 ms

Loss rate: 0.03%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-27 06:25:32

End at: 2018-03-27 06:26:02

Below is generated by plot.py at 2018-03-27 10:22:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.68 Mbit/s

95th percentile per-packet one-way delay: 59.535 ms

Loss rate: 0.02%

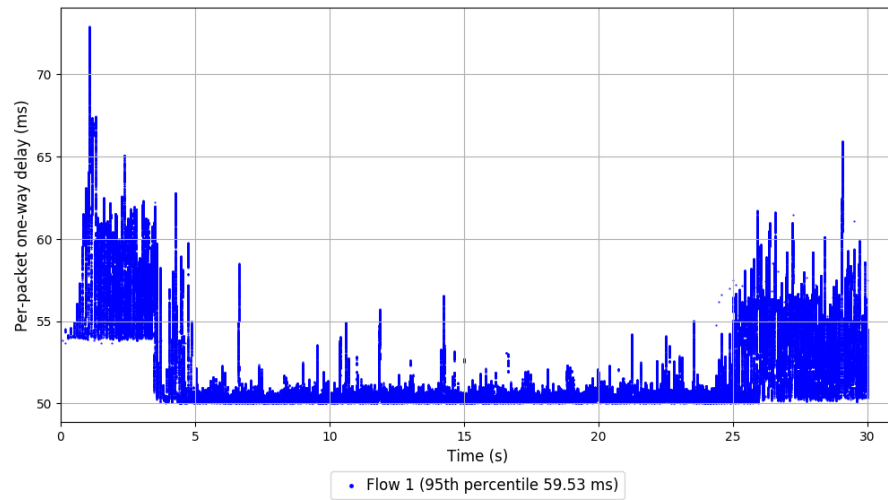
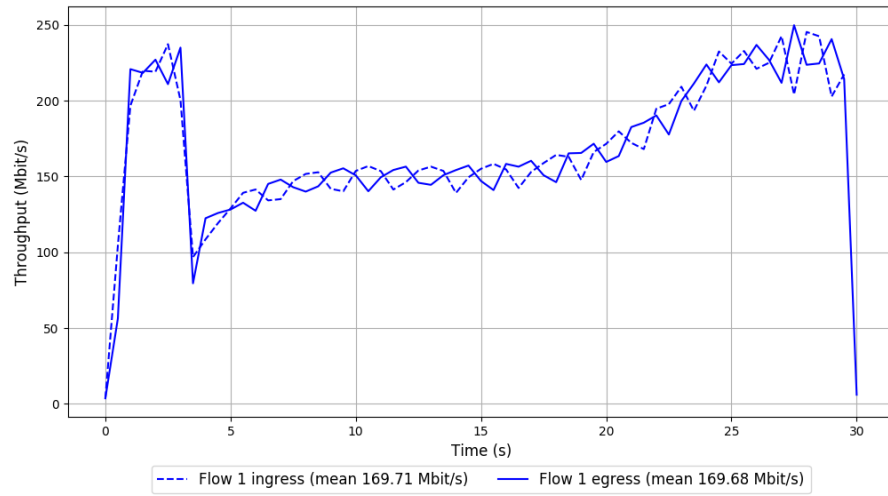
-- Flow 1:

Average throughput: 169.68 Mbit/s

95th percentile per-packet one-way delay: 59.535 ms

Loss rate: 0.02%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-27 06:39:54

End at: 2018-03-27 06:40:24

Below is generated by plot.py at 2018-03-27 10:22:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 58.623 ms

Loss rate: 0.00%

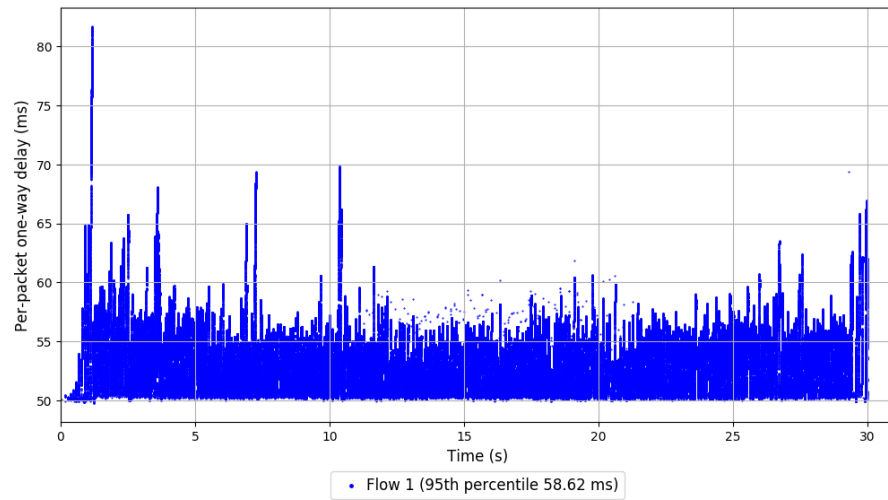
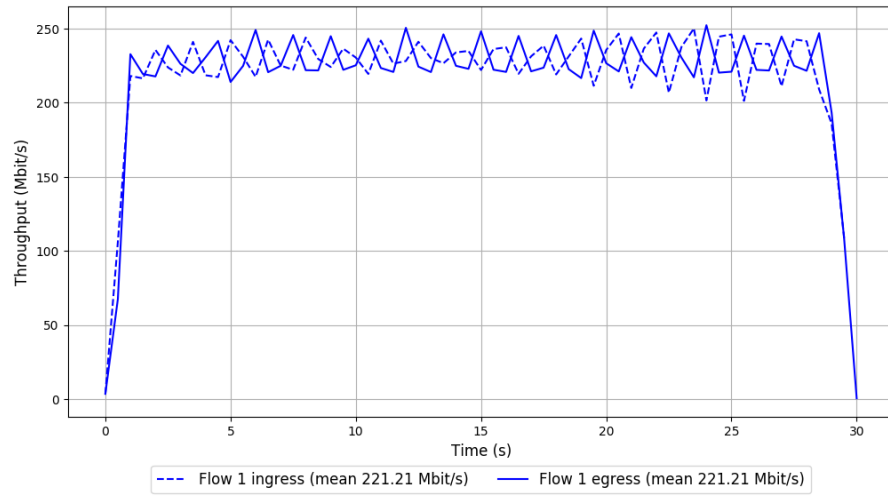
-- Flow 1:

Average throughput: 221.21 Mbit/s

95th percentile per-packet one-way delay: 58.623 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-27 06:54:36

End at: 2018-03-27 06:55:06

Below is generated by plot.py at 2018-03-27 10:22:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.22 Mbit/s

95th percentile per-packet one-way delay: 59.869 ms

Loss rate: 0.00%

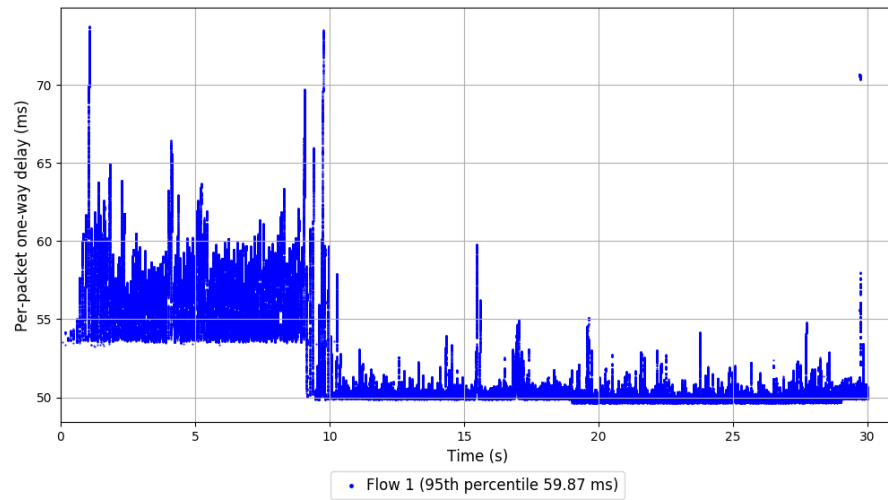
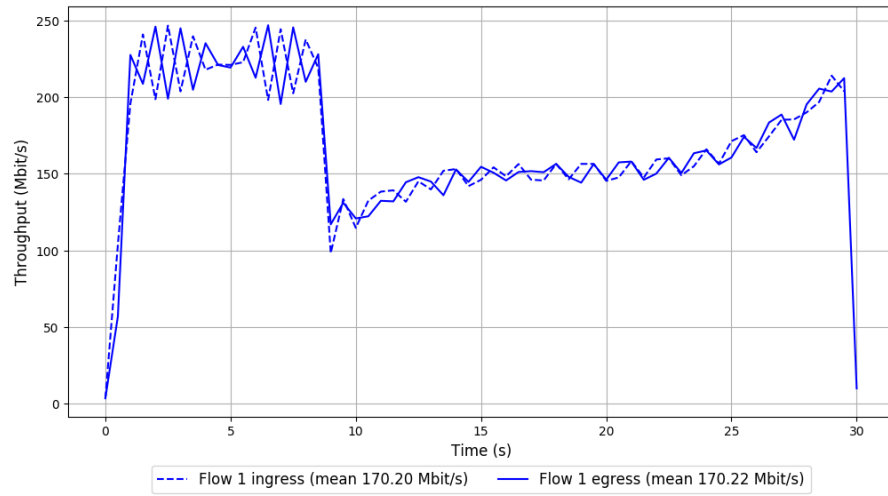
-- Flow 1:

Average throughput: 170.22 Mbit/s

95th percentile per-packet one-way delay: 59.869 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-27 07:08:49

End at: 2018-03-27 07:09:19

Below is generated by plot.py at 2018-03-27 10:22:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.13 Mbit/s

95th percentile per-packet one-way delay: 59.785 ms

Loss rate: 0.04%

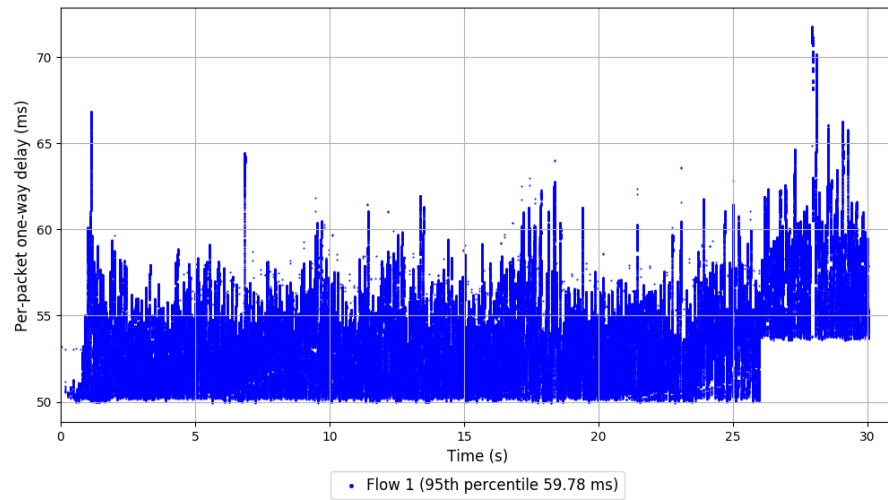
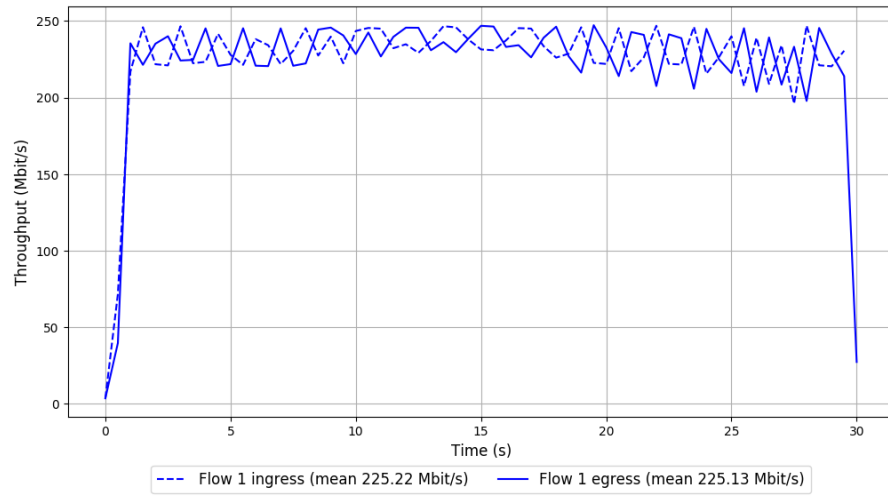
-- Flow 1:

Average throughput: 225.13 Mbit/s

95th percentile per-packet one-way delay: 59.785 ms

Loss rate: 0.04%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-27 07:23:21

End at: 2018-03-27 07:23:51

Below is generated by plot.py at 2018-03-27 10:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.45 Mbit/s

95th percentile per-packet one-way delay: 61.720 ms

Loss rate: 0.00%

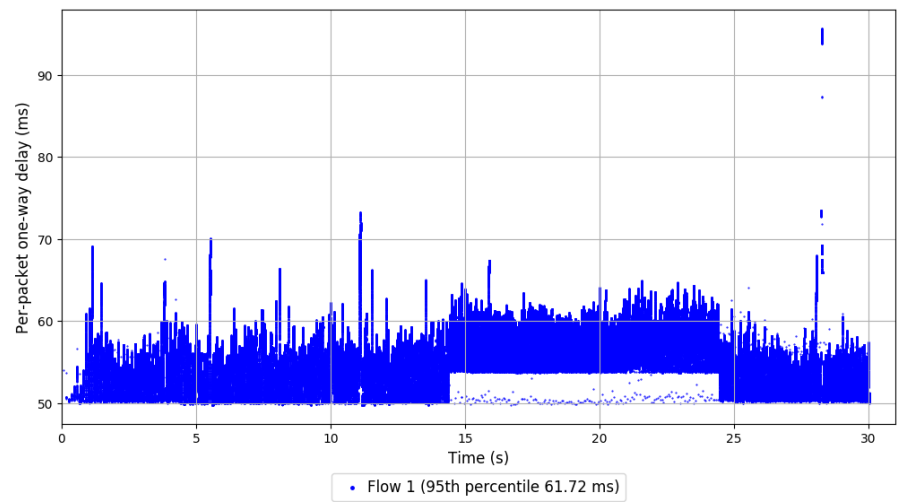
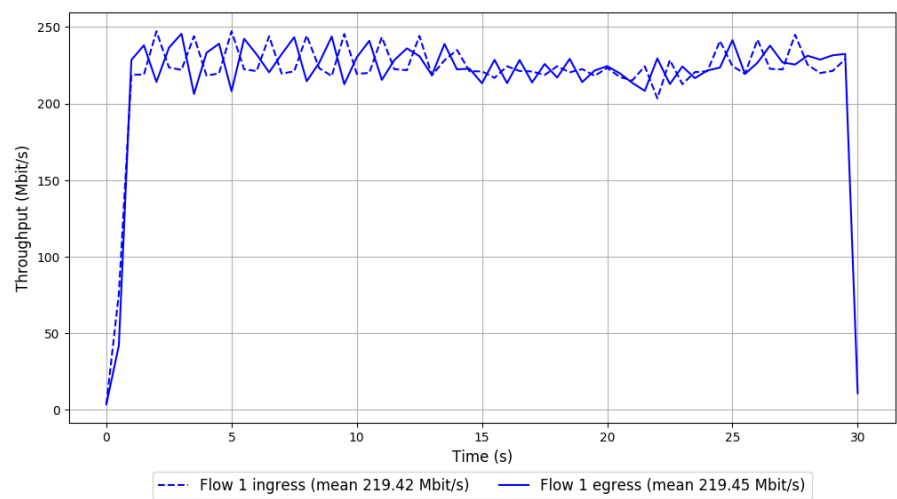
-- Flow 1:

Average throughput: 219.45 Mbit/s

95th percentile per-packet one-way delay: 61.720 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 07:38:05

End at: 2018-03-27 07:38:35

Below is generated by plot.py at 2018-03-27 10:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.32 Mbit/s

95th percentile per-packet one-way delay: 55.703 ms

Loss rate: 0.00%

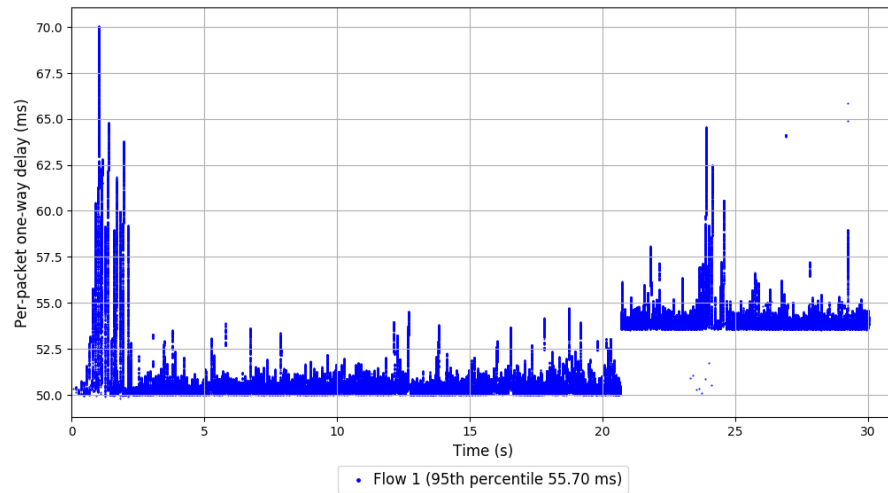
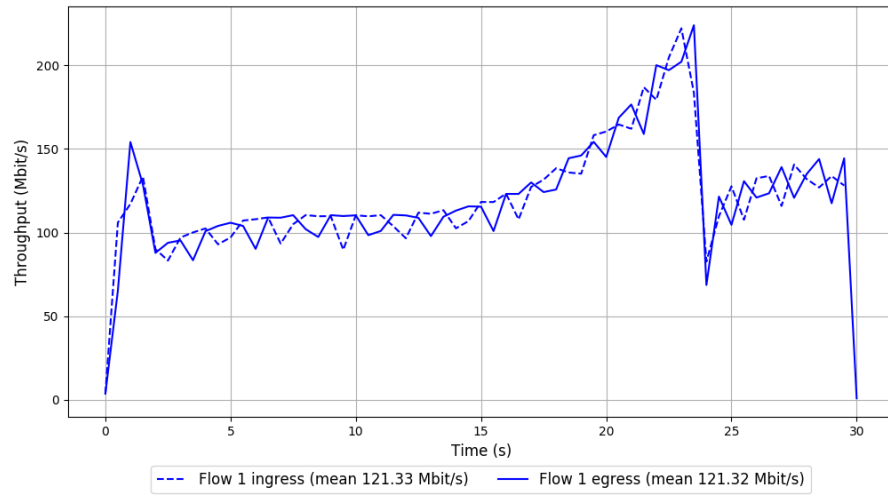
-- Flow 1:

Average throughput: 121.32 Mbit/s

95th percentile per-packet one-way delay: 55.703 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 07:52:25

End at: 2018-03-27 07:52:55

Below is generated by plot.py at 2018-03-27 10:25:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.25 Mbit/s

95th percentile per-packet one-way delay: 59.127 ms

Loss rate: 0.00%

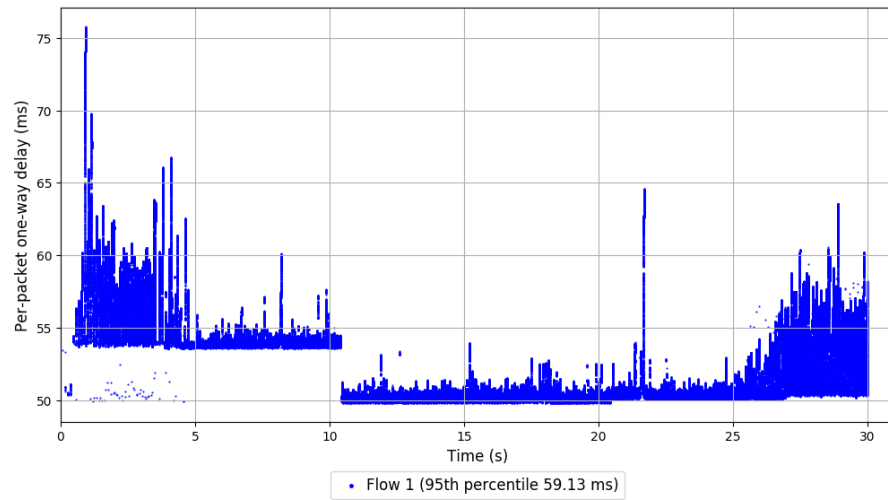
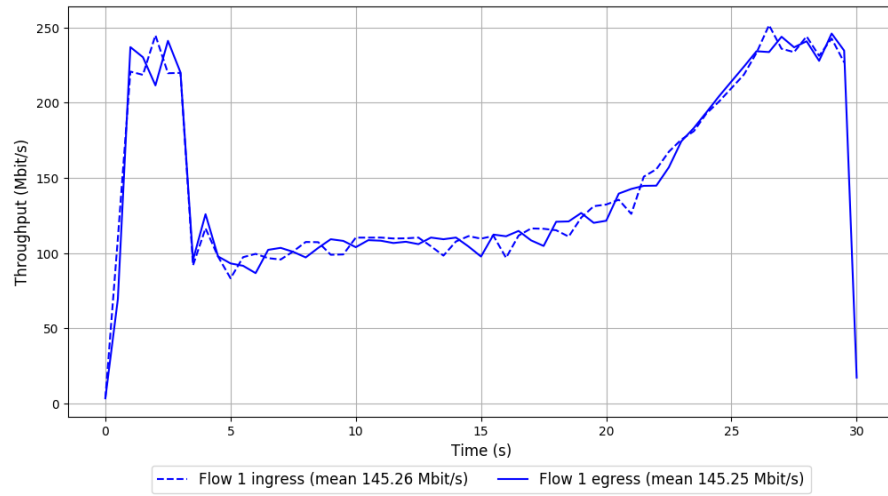
-- Flow 1:

Average throughput: 145.25 Mbit/s

95th percentile per-packet one-way delay: 59.127 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 08:06:56

End at: 2018-03-27 08:07:26

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.50 Mbit/s

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

Loss rate: 0.00%

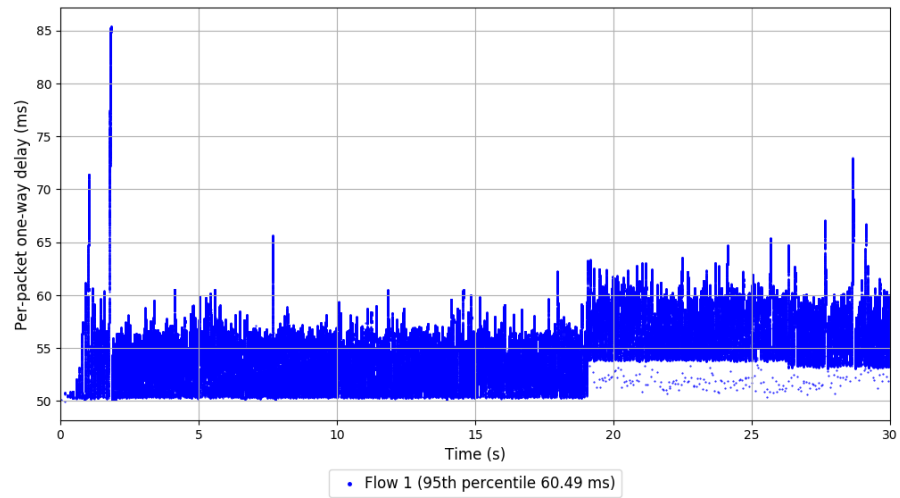
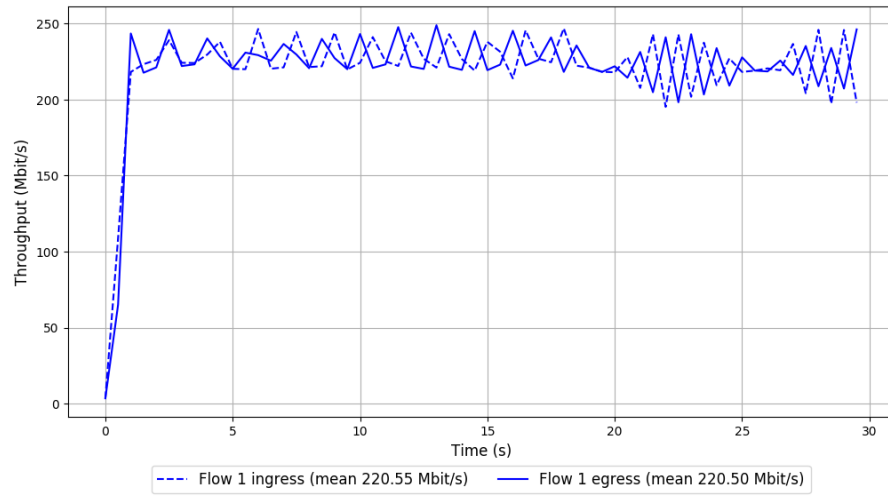
-- Flow 1:

Average throughput: 220.50 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

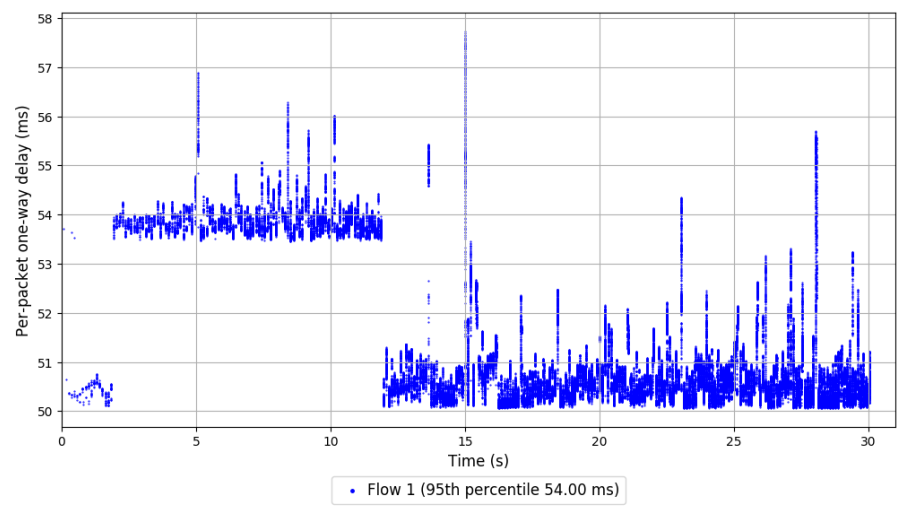
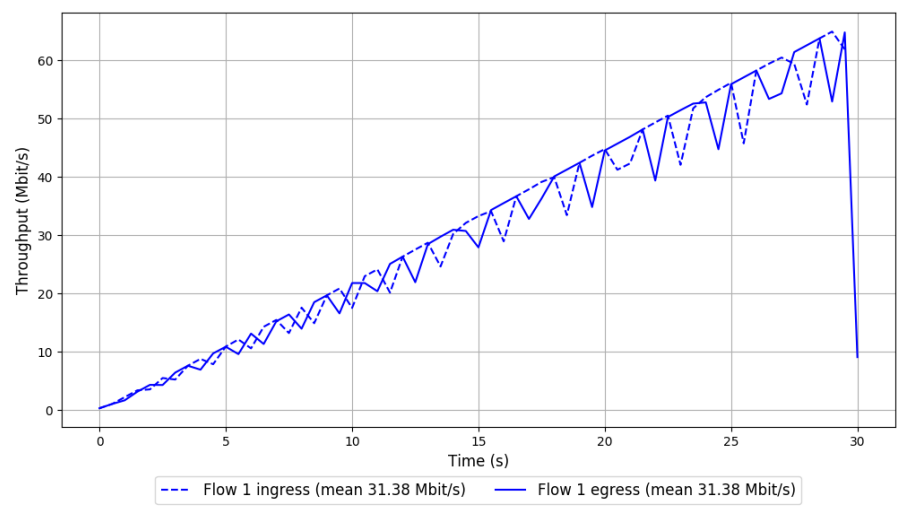


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 05:57:33
End at: 2018-03-27 05:58:03

# Below is generated by plot.py at 2018-03-27 10:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 54.000 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.38 Mbit/s
95th percentile per-packet one-way delay: 54.000 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

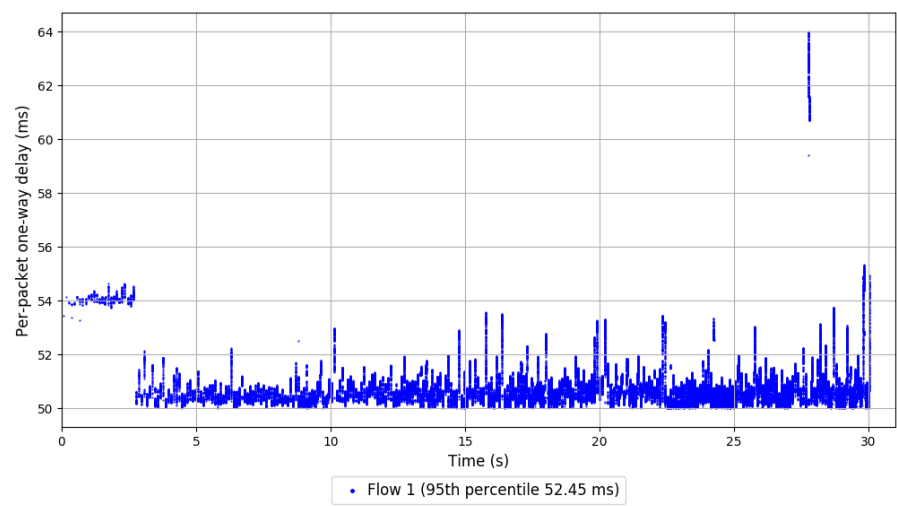
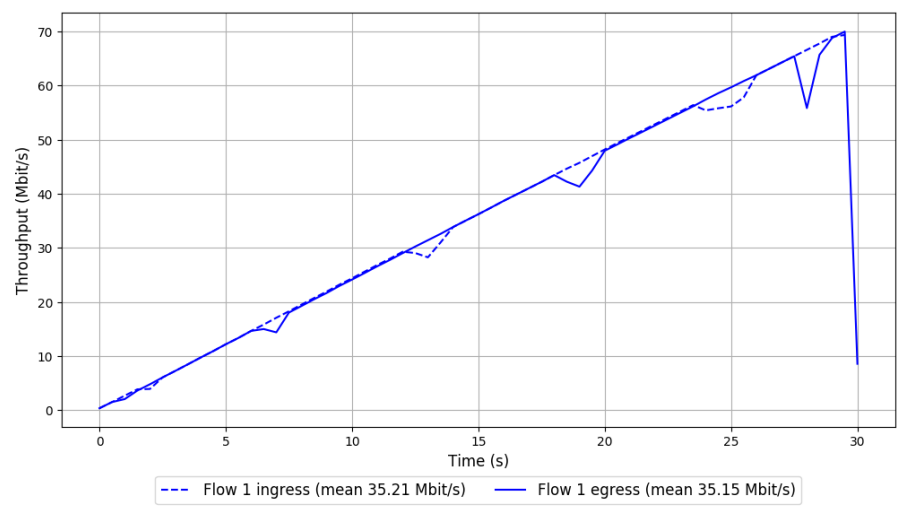


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-27 06:12:03
End at: 2018-03-27 06:12:33

# Below is generated by plot.py at 2018-03-27 10:26:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 52.452 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 35.15 Mbit/s
95th percentile per-packet one-way delay: 52.452 ms
Loss rate: 0.18%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-27 06:26:17

End at: 2018-03-27 06:26:47

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 51.703 ms

Loss rate: 0.00%

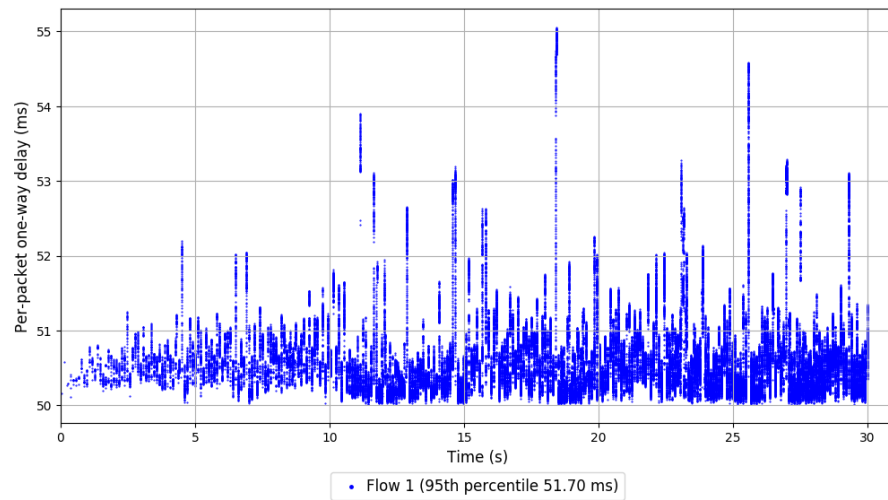
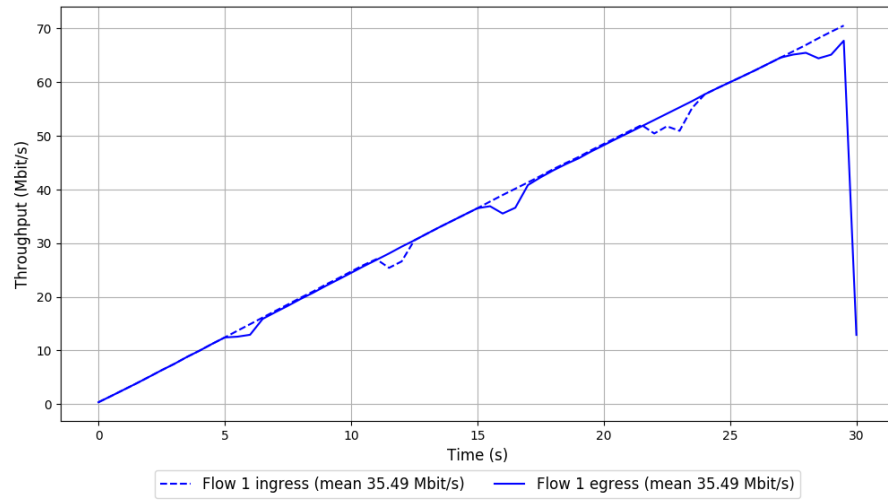
-- Flow 1:

Average throughput: 35.49 Mbit/s

95th percentile per-packet one-way delay: 51.703 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-27 06:40:41

End at: 2018-03-27 06:41:11

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 52.263 ms

Loss rate: 0.00%

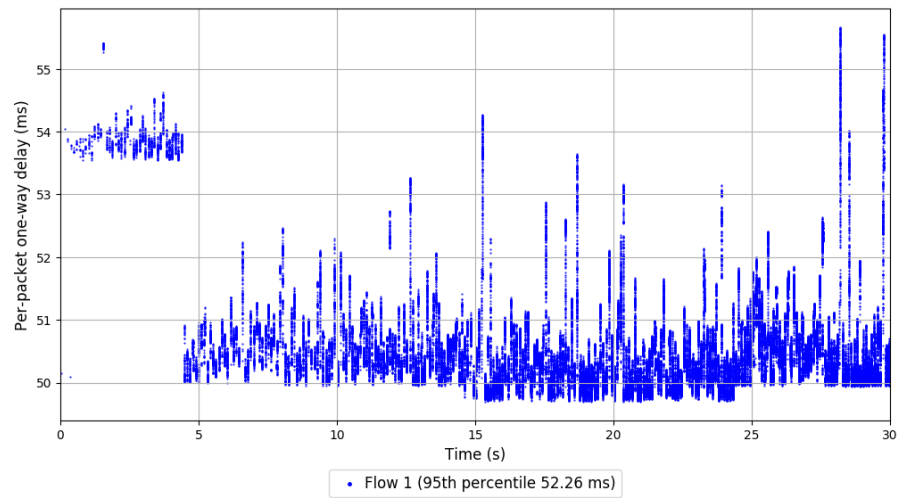
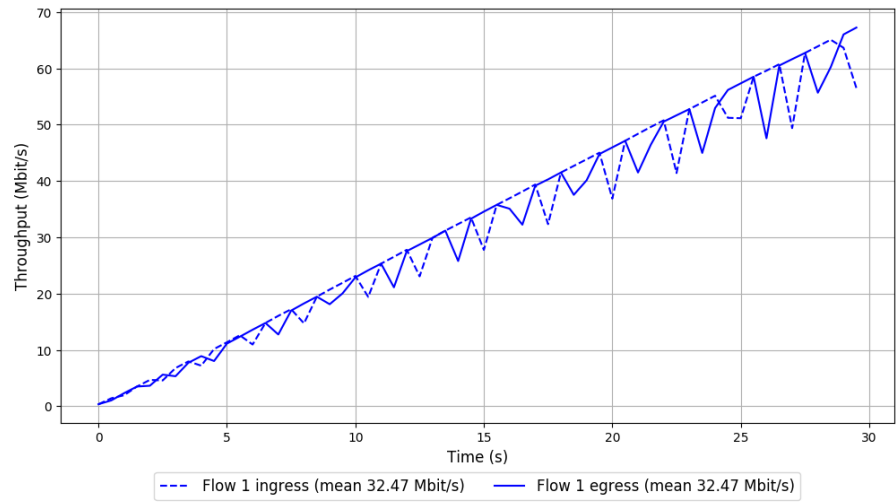
-- Flow 1:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 52.263 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-27 06:55:21

End at: 2018-03-27 06:55:51

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 55.278 ms

Loss rate: 0.00%

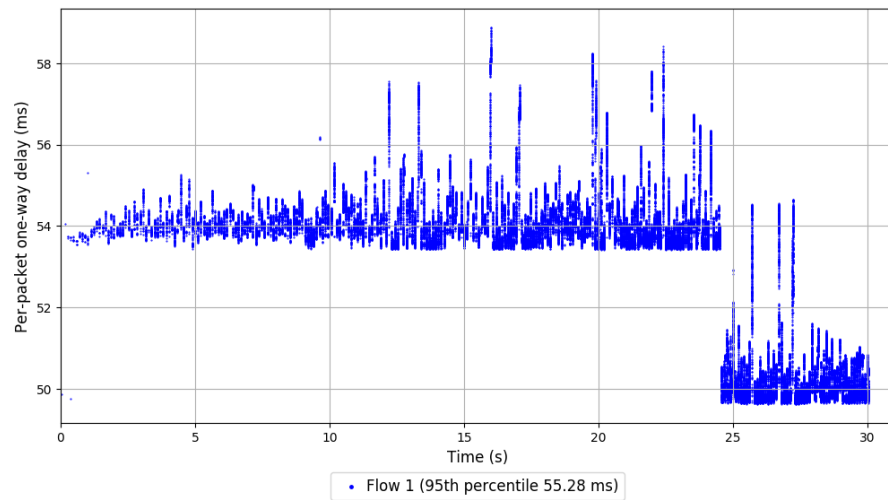
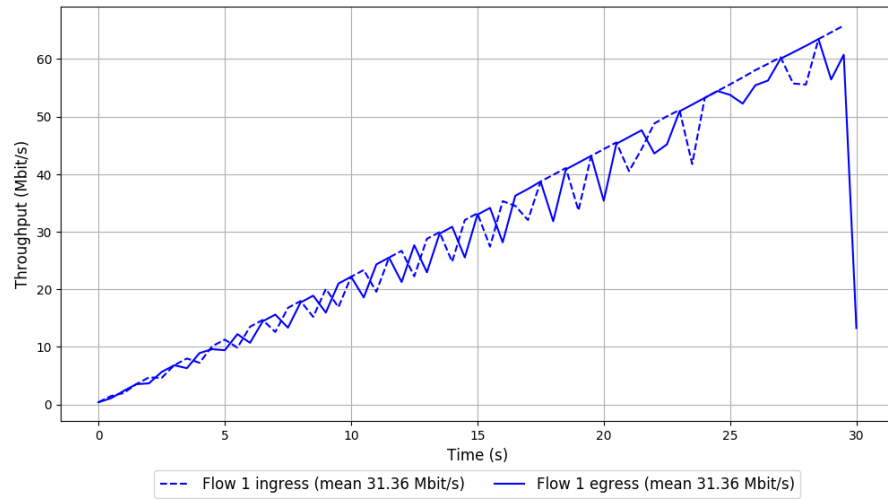
-- Flow 1:

Average throughput: 31.36 Mbit/s

95th percentile per-packet one-way delay: 55.278 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-03-27 07:09:36

End at: 2018-03-27 07:10:06

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 51.556 ms

Loss rate: 0.00%

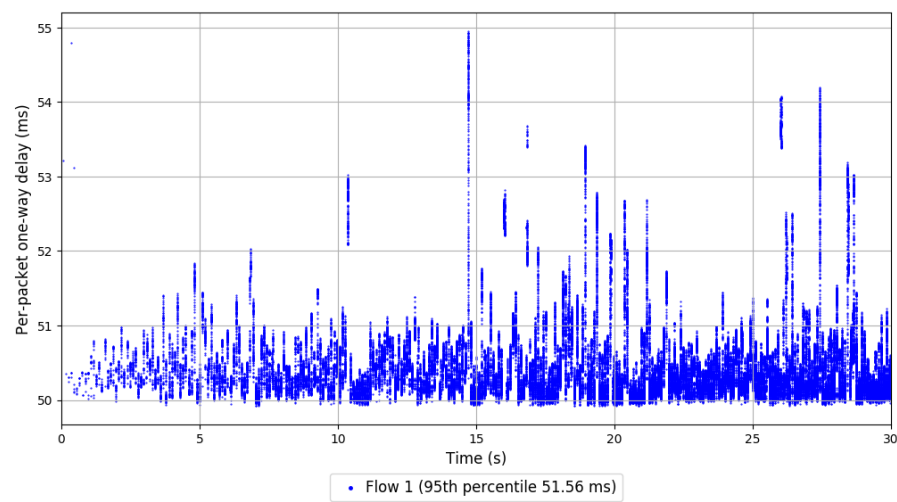
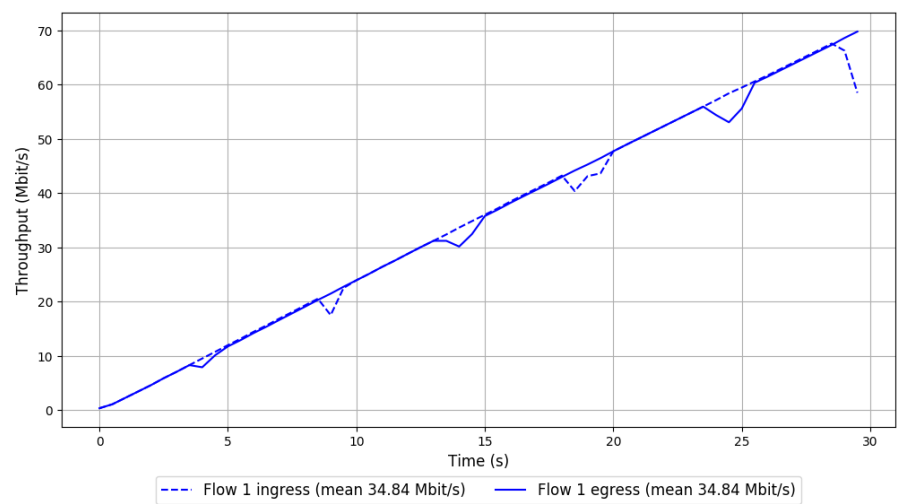
-- Flow 1:

Average throughput: 34.84 Mbit/s

95th percentile per-packet one-way delay: 51.556 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-27 07:24:08

End at: 2018-03-27 07:24:38

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 52.251 ms

Loss rate: 0.05%

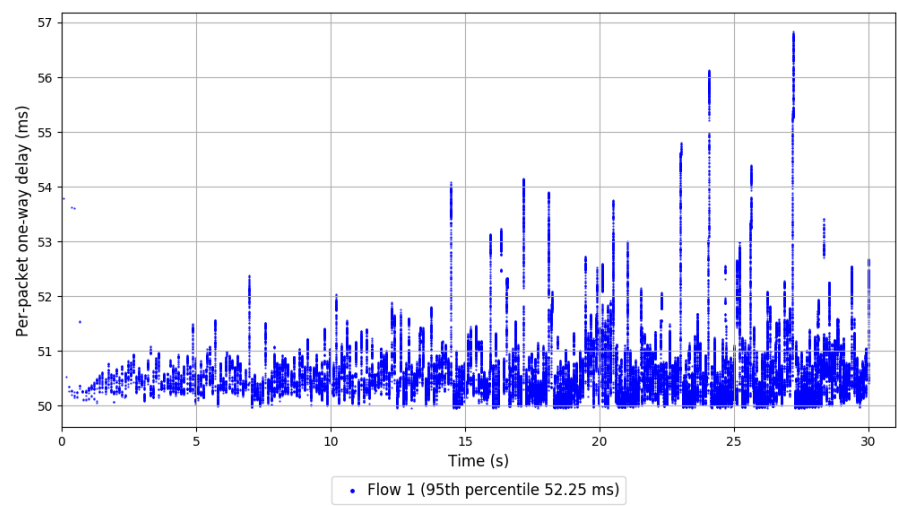
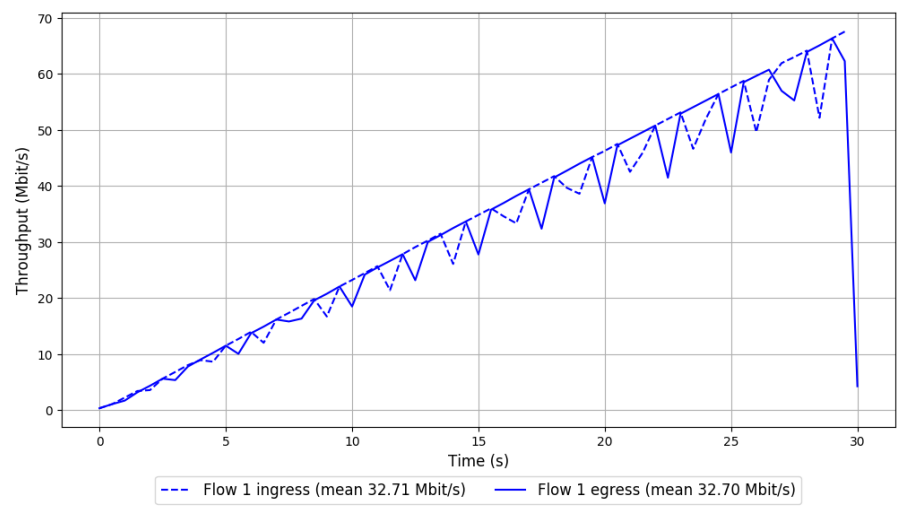
-- Flow 1:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 52.251 ms

Loss rate: 0.05%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-27 07:38:47

End at: 2018-03-27 07:39:17

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 55.463 ms

Loss rate: 0.00%

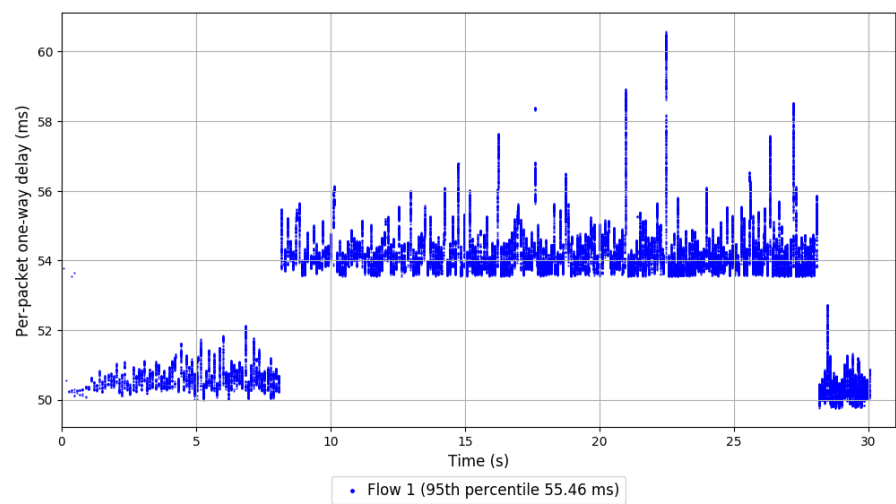
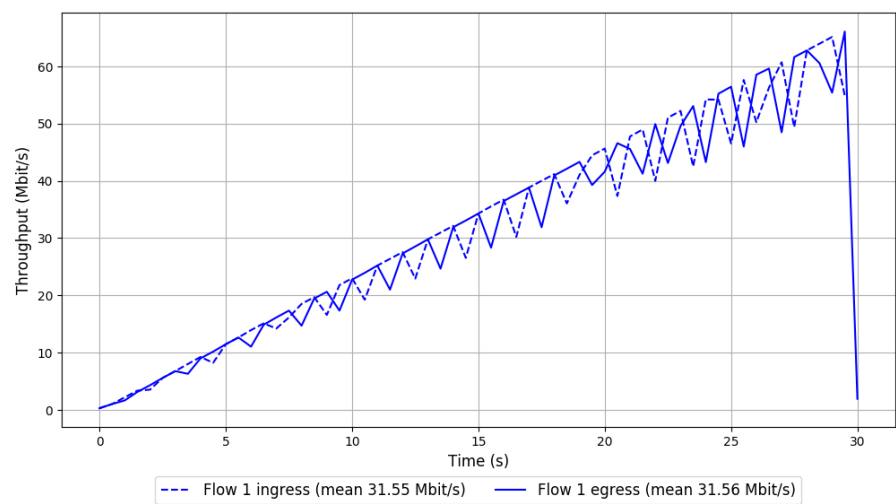
-- Flow 1:

Average throughput: 31.56 Mbit/s

95th percentile per-packet one-way delay: 55.463 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-27 07:53:09

End at: 2018-03-27 07:53:39

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 54.973 ms

Loss rate: 0.00%

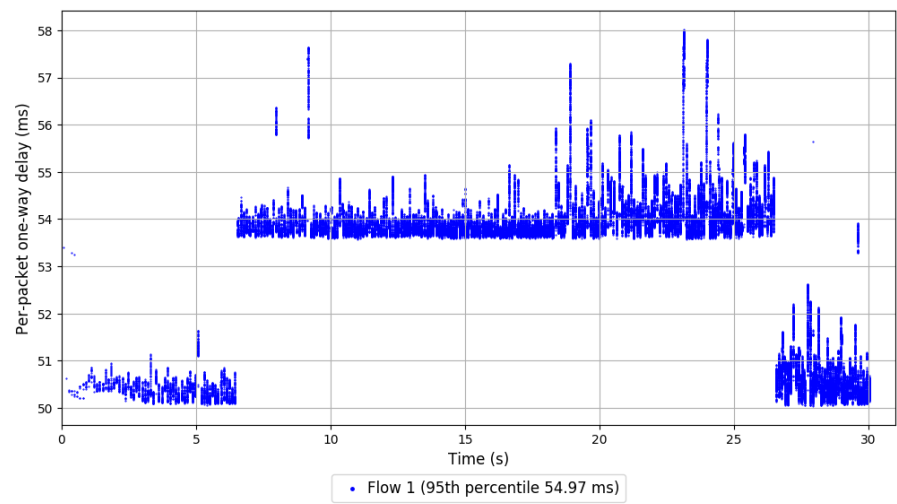
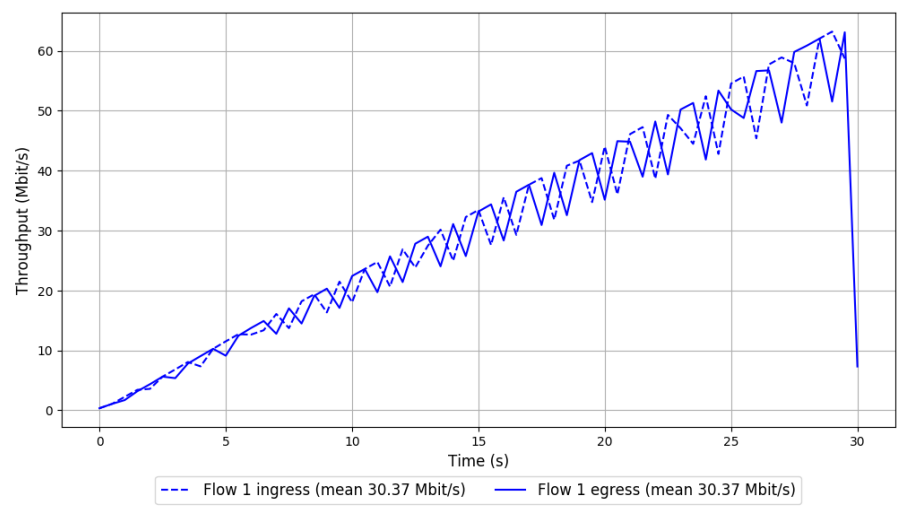
-- Flow 1:

Average throughput: 30.37 Mbit/s

95th percentile per-packet one-way delay: 54.973 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-27 08:07:43

End at: 2018-03-27 08:08:13

Below is generated by plot.py at 2018-03-27 10:26:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 54.580 ms

Loss rate: 0.00%

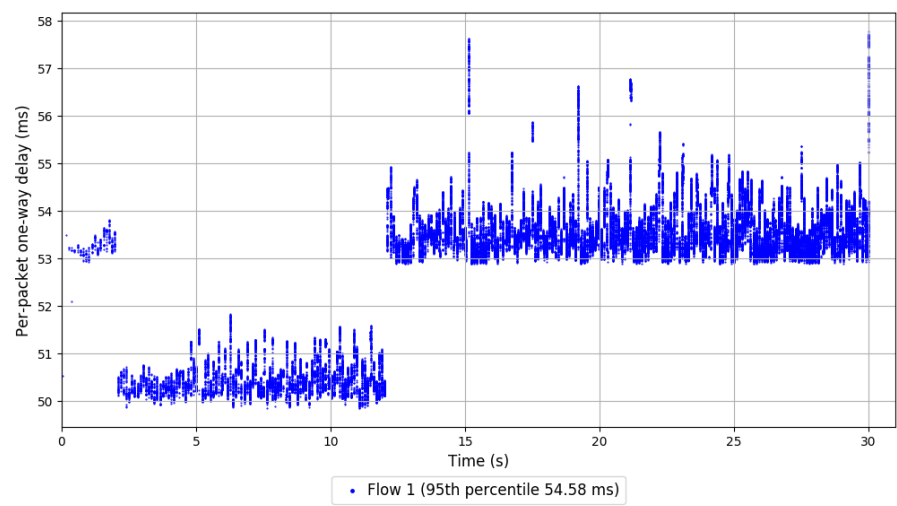
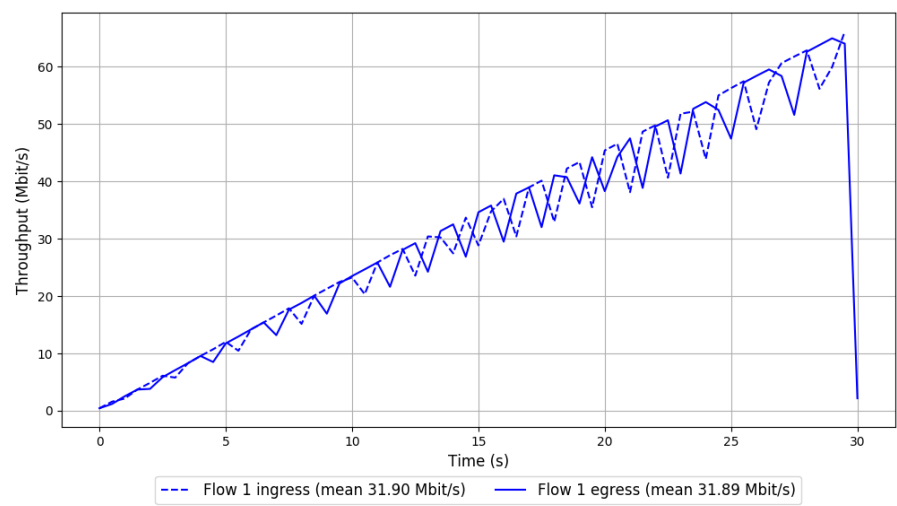
-- Flow 1:

Average throughput: 31.89 Mbit/s

95th percentile per-packet one-way delay: 54.580 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

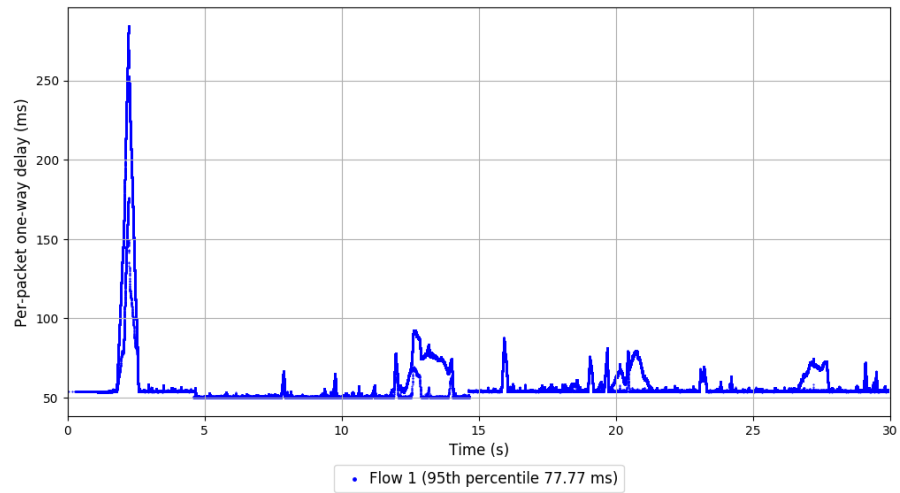
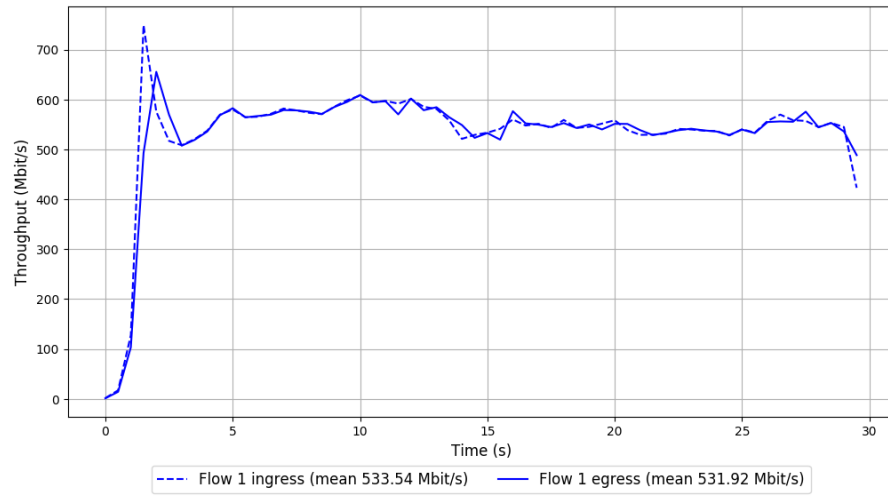


```
Run 1: Statistics of PCC

Start at: 2018-03-27 06:03:11
End at: 2018-03-27 06:03:41

# Below is generated by plot.py at 2018-03-27 10:35:04
# Datalink statistics
-- Total of 1 flow:
Average throughput: 531.92 Mbit/s
95th percentile per-packet one-way delay: 77.768 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 531.92 Mbit/s
95th percentile per-packet one-way delay: 77.768 ms
Loss rate: 0.31%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-27 06:17:42

End at: 2018-03-27 06:18:12

Below is generated by plot.py at 2018-03-27 10:35:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.82 Mbit/s

95th percentile per-packet one-way delay: 140.574 ms

Loss rate: 0.34%

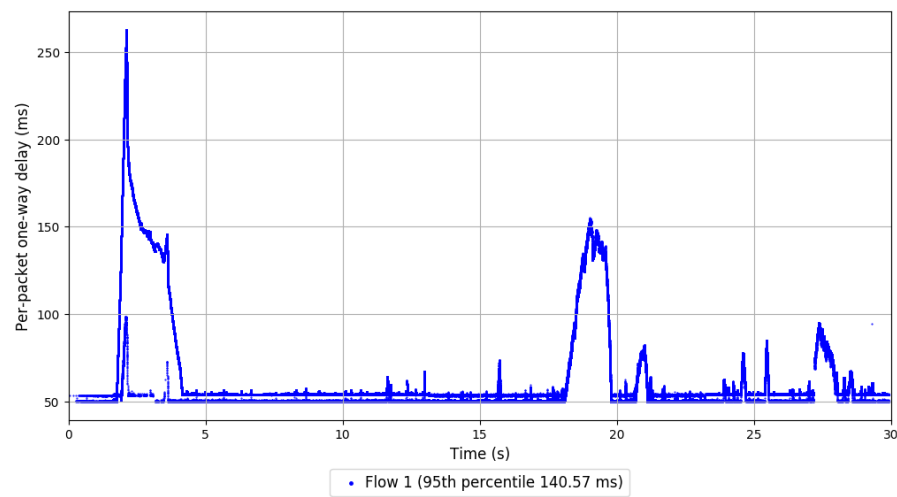
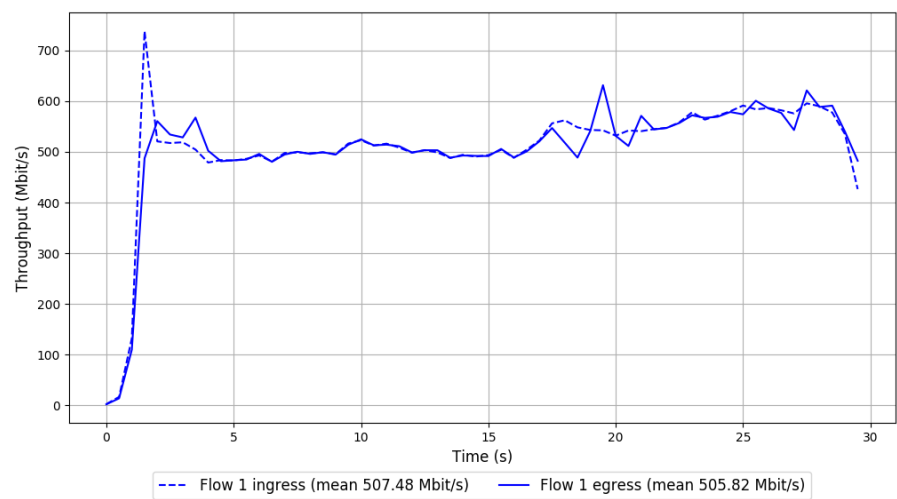
-- Flow 1:

Average throughput: 505.82 Mbit/s

95th percentile per-packet one-way delay: 140.574 ms

Loss rate: 0.34%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-27 06:31:55

End at: 2018-03-27 06:32:25

Below is generated by plot.py at 2018-03-27 10:35:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 534.95 Mbit/s

95th percentile per-packet one-way delay: 187.398 ms

Loss rate: 1.10%

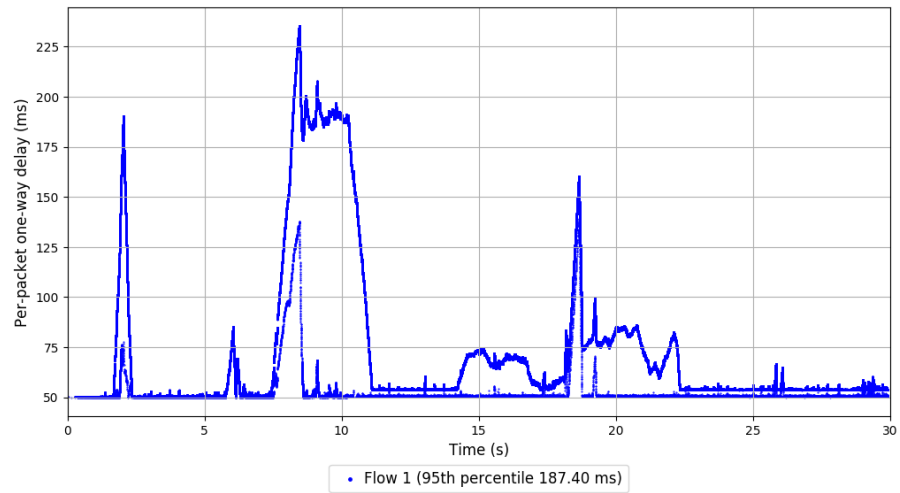
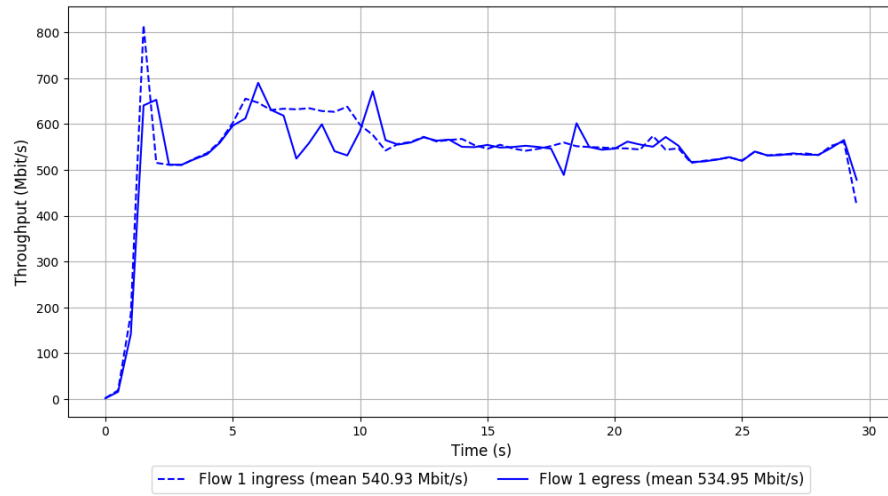
-- Flow 1:

Average throughput: 534.95 Mbit/s

95th percentile per-packet one-way delay: 187.398 ms

Loss rate: 1.10%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-27 06:46:31

End at: 2018-03-27 06:47:01

Below is generated by plot.py at 2018-03-27 10:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 598.79 Mbit/s

95th percentile per-packet one-way delay: 124.531 ms

Loss rate: 0.89%

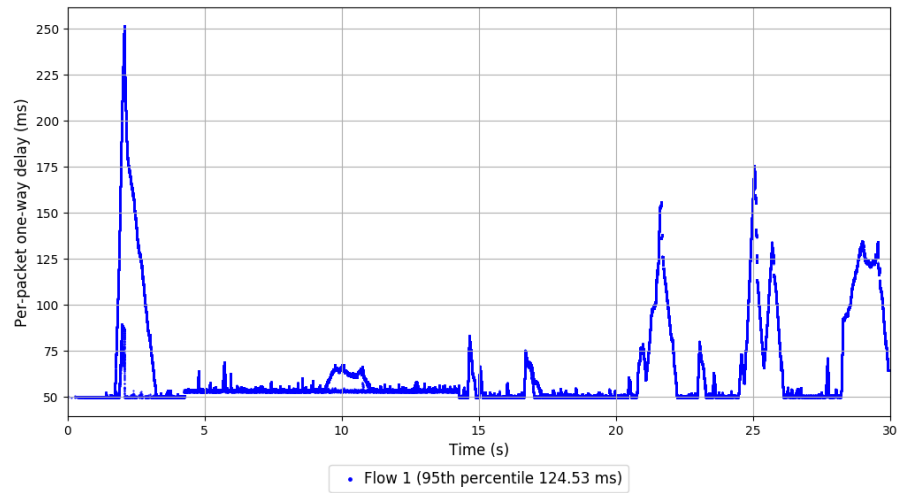
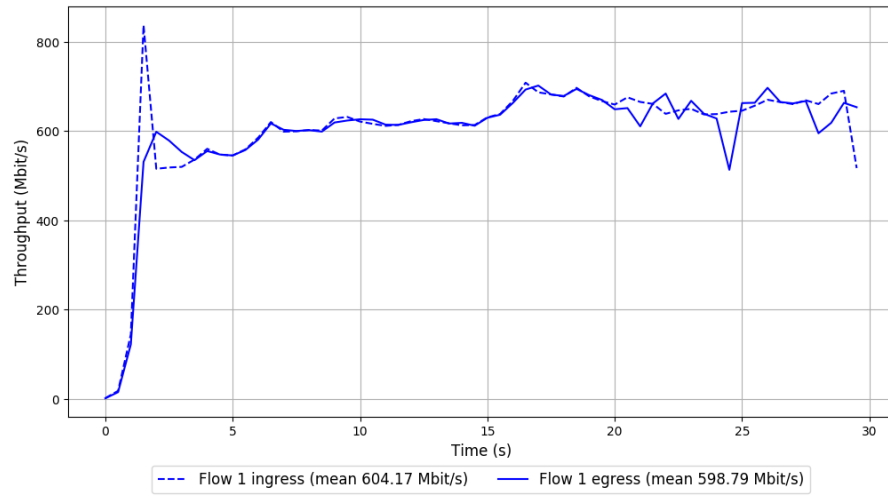
-- Flow 1:

Average throughput: 598.79 Mbit/s

95th percentile per-packet one-way delay: 124.531 ms

Loss rate: 0.89%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-27 07:01:00

End at: 2018-03-27 07:01:30

Below is generated by plot.py at 2018-03-27 10:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.16 Mbit/s

95th percentile per-packet one-way delay: 181.423 ms

Loss rate: 0.91%

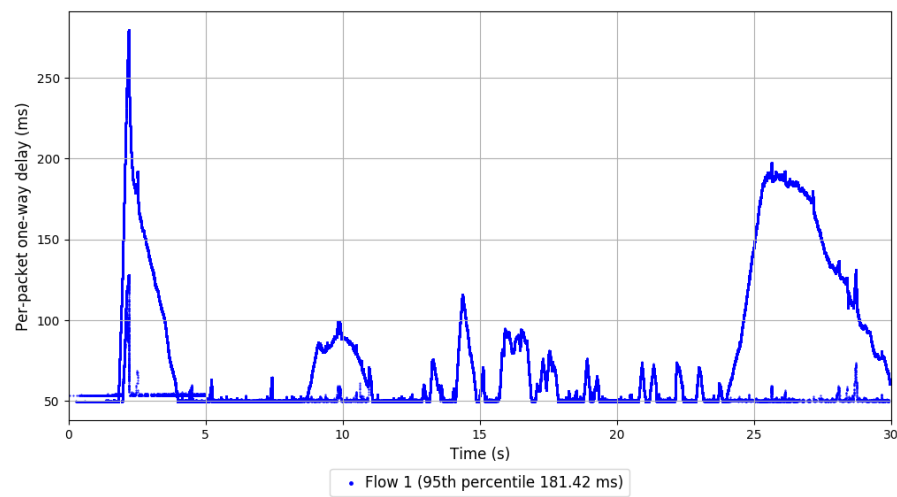
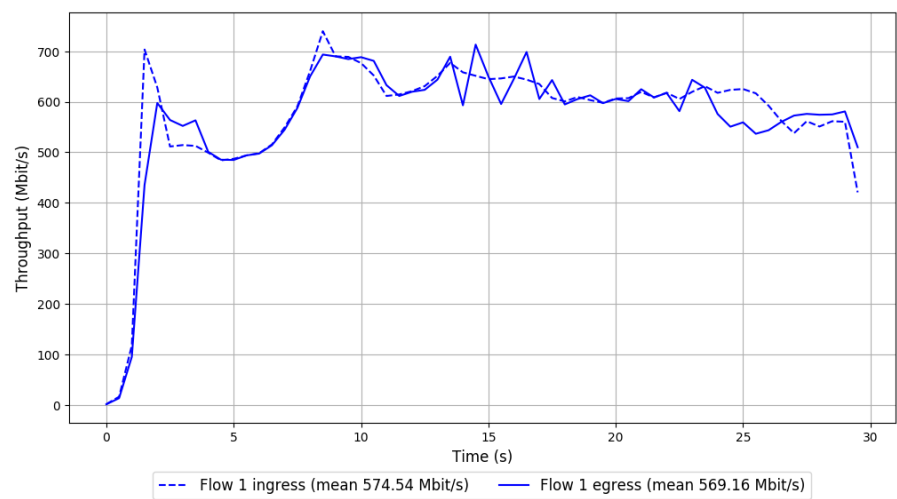
-- Flow 1:

Average throughput: 569.16 Mbit/s

95th percentile per-packet one-way delay: 181.423 ms

Loss rate: 0.91%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-27 07:15:14

End at: 2018-03-27 07:15:44

Below is generated by plot.py at 2018-03-27 10:36:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 575.39 Mbit/s

95th percentile per-packet one-way delay: 110.567 ms

Loss rate: 0.44%

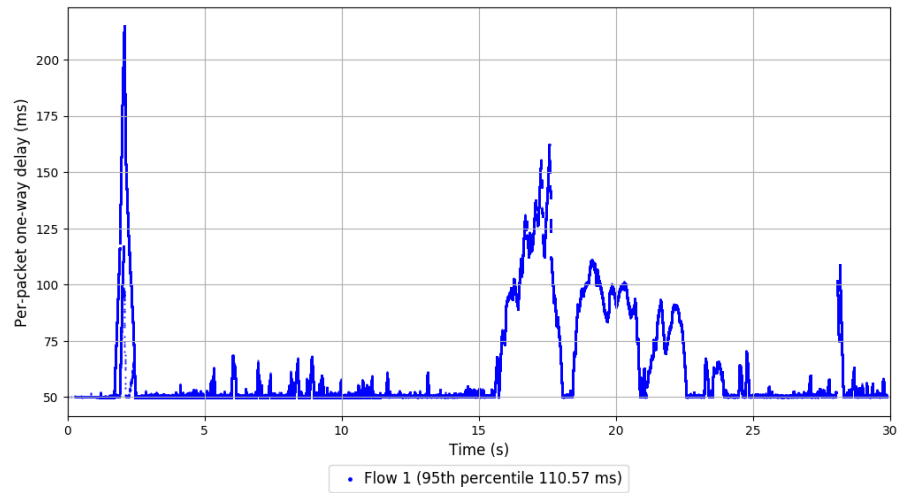
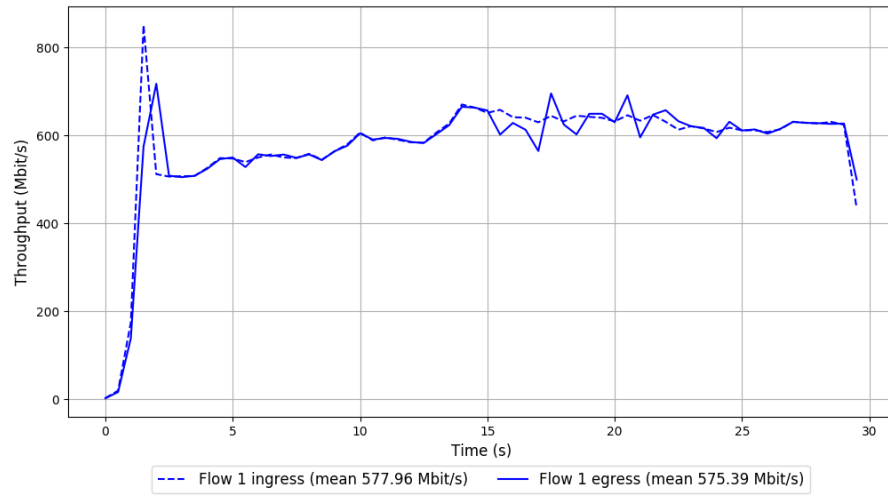
-- Flow 1:

Average throughput: 575.39 Mbit/s

95th percentile per-packet one-way delay: 110.567 ms

Loss rate: 0.44%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-27 07:29:55

End at: 2018-03-27 07:30:25

Below is generated by plot.py at 2018-03-27 10:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.94 Mbit/s

95th percentile per-packet one-way delay: 127.334 ms

Loss rate: 1.10%

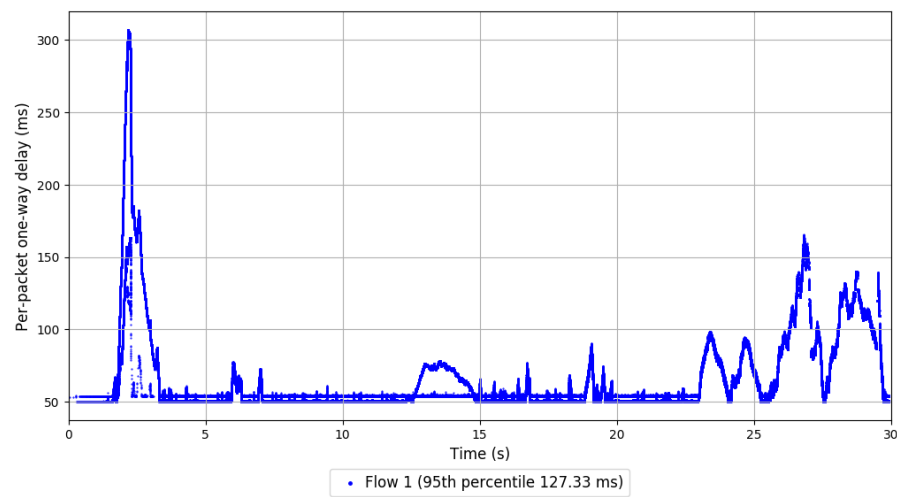
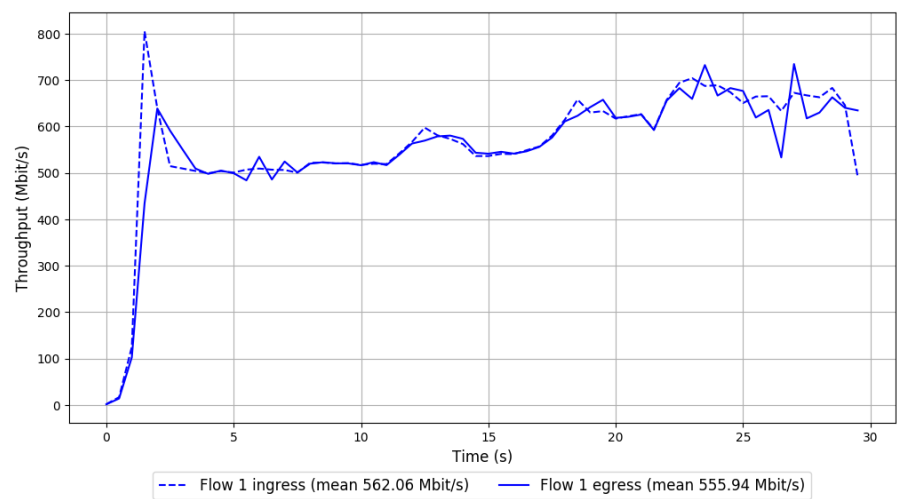
-- Flow 1:

Average throughput: 555.94 Mbit/s

95th percentile per-packet one-way delay: 127.334 ms

Loss rate: 1.10%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-27 07:44:33

End at: 2018-03-27 07:45:03

Below is generated by plot.py at 2018-03-27 10:39:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 584.81 Mbit/s

95th percentile per-packet one-way delay: 112.593 ms

Loss rate: 0.27%

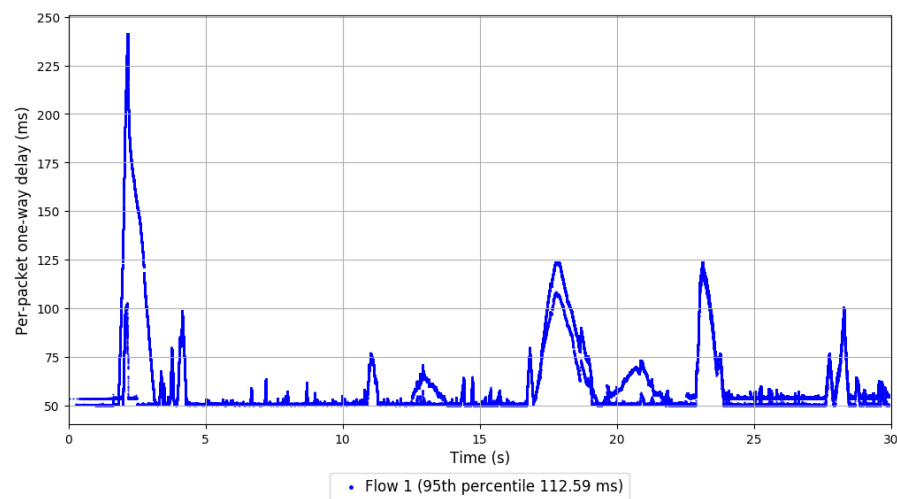
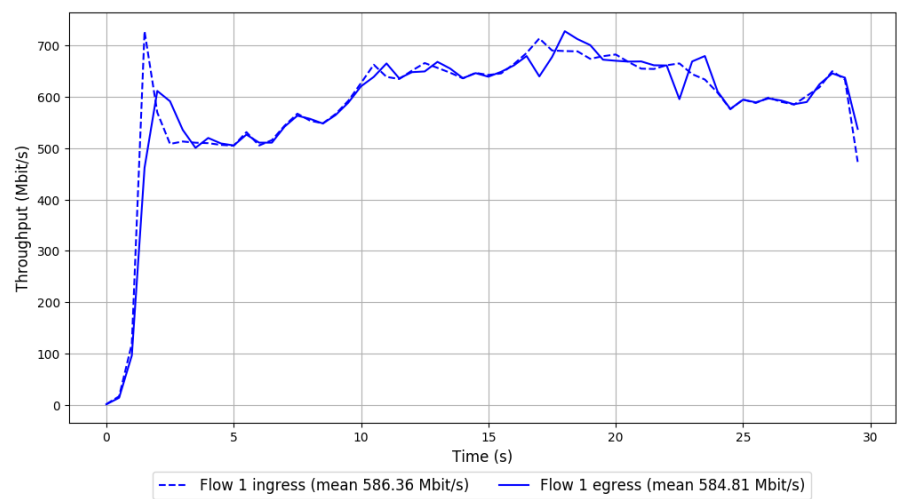
-- Flow 1:

Average throughput: 584.81 Mbit/s

95th percentile per-packet one-way delay: 112.593 ms

Loss rate: 0.27%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-27 07:58:53

End at: 2018-03-27 07:59:23

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 599.45 Mbit/s

95th percentile per-packet one-way delay: 130.457 ms

Loss rate: 0.65%

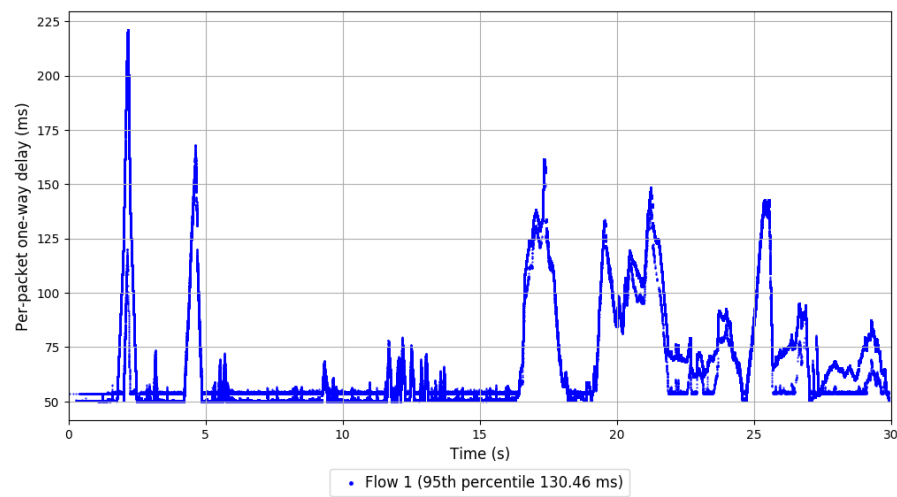
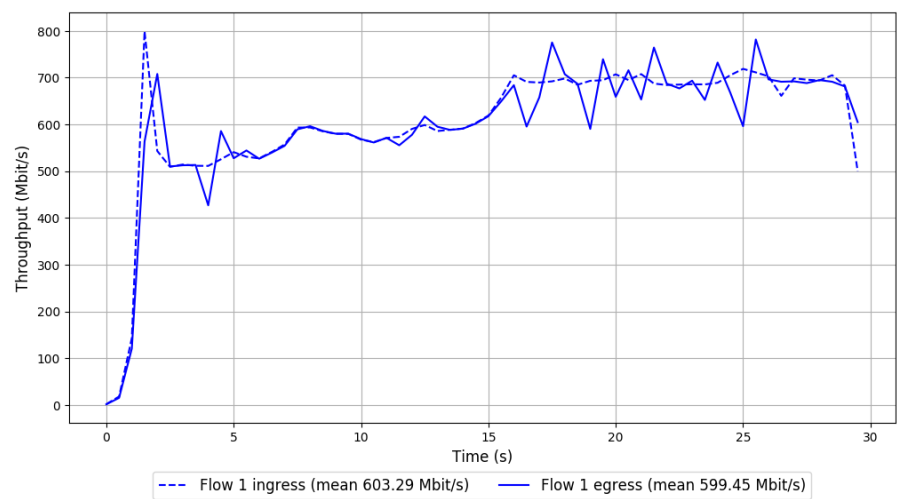
-- Flow 1:

Average throughput: 599.45 Mbit/s

95th percentile per-packet one-way delay: 130.457 ms

Loss rate: 0.65%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-27 08:13:30

End at: 2018-03-27 08:14:00

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 549.05 Mbit/s

95th percentile per-packet one-way delay: 184.791 ms

Loss rate: 1.35%

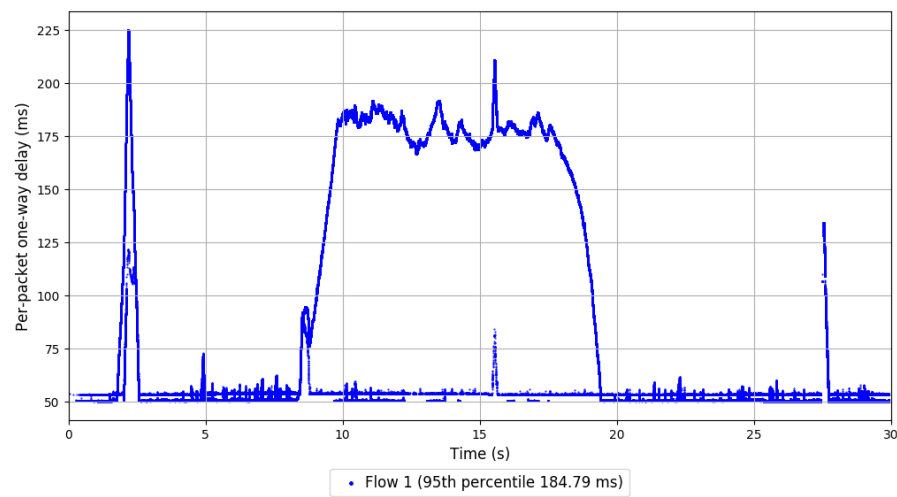
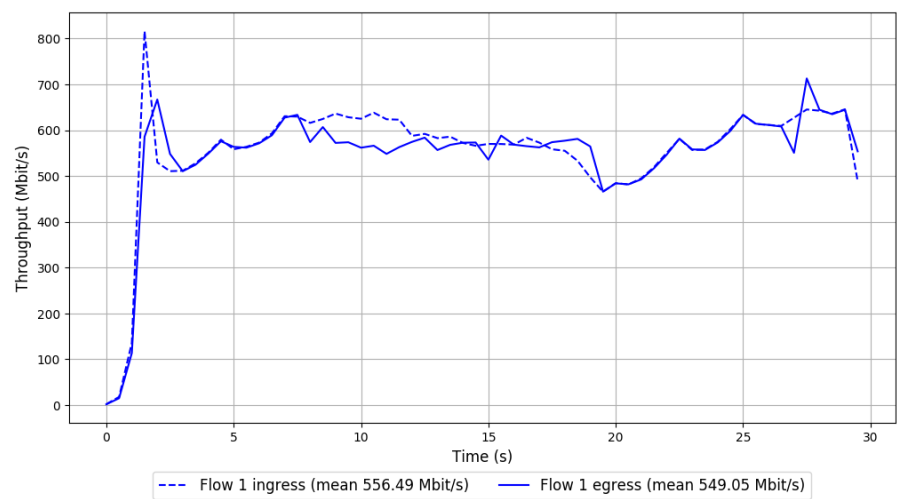
-- Flow 1:

Average throughput: 549.05 Mbit/s

95th percentile per-packet one-way delay: 184.791 ms

Loss rate: 1.35%

Run 10: Report of PCC — Data Link

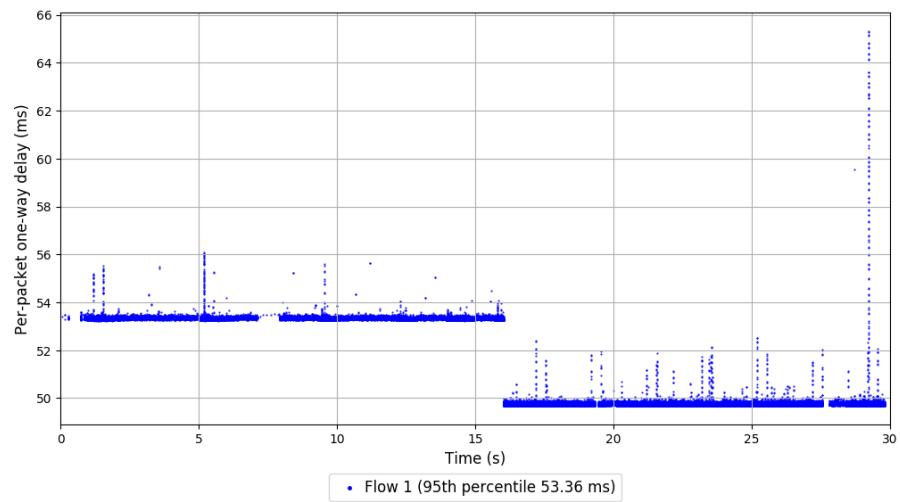
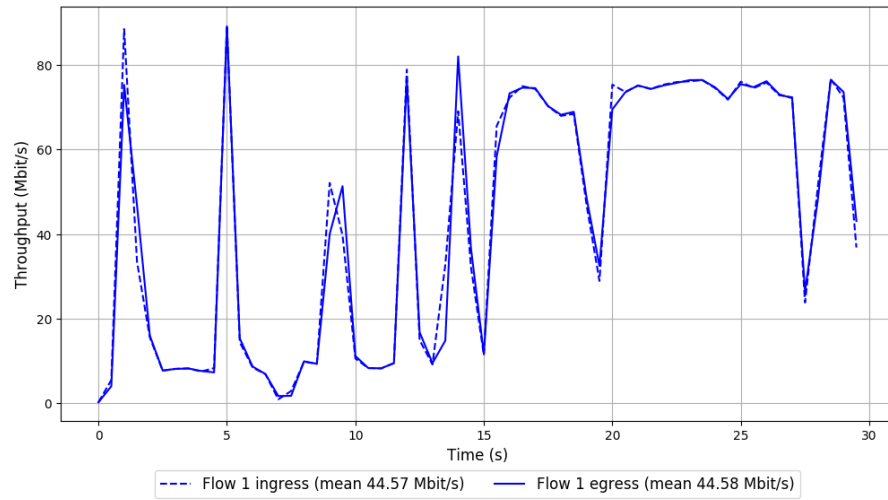


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 05:53:59
End at: 2018-03-27 05:54:29

# Below is generated by plot.py at 2018-03-27 10:48:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 44.58 Mbit/s
95th percentile per-packet one-way delay: 53.359 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.58 Mbit/s
95th percentile per-packet one-way delay: 53.359 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-27 06:08:10

End at: 2018-03-27 06:08:40

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.02%

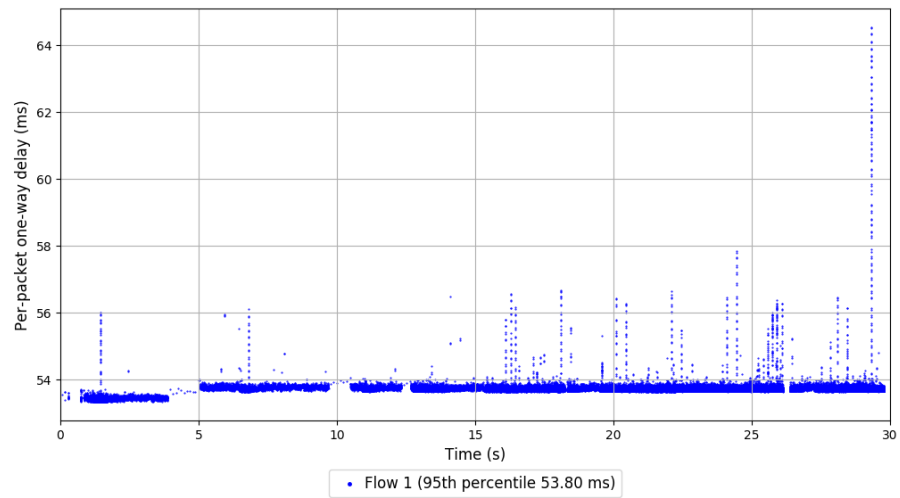
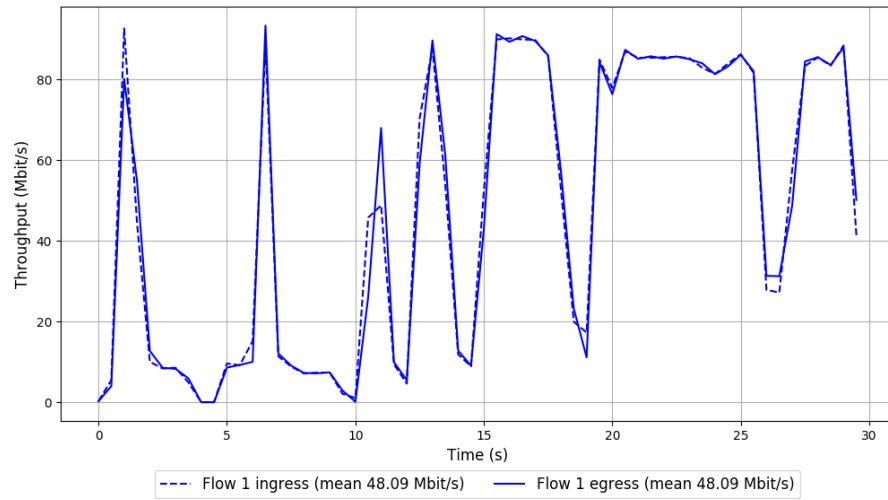
-- Flow 1:

Average throughput: 48.09 Mbit/s

95th percentile per-packet one-way delay: 53.800 ms

Loss rate: 0.02%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-27 06:22:43

End at: 2018-03-27 06:23:13

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.21 Mbit/s

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

Loss rate: 0.02%

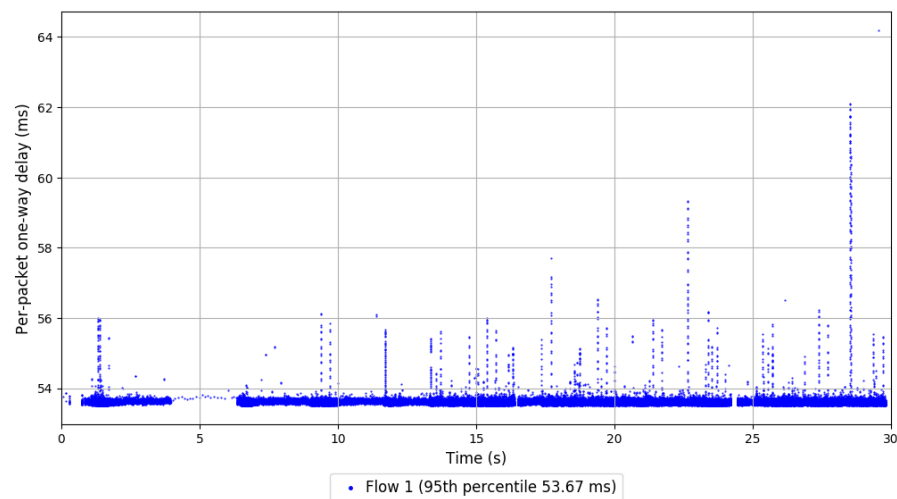
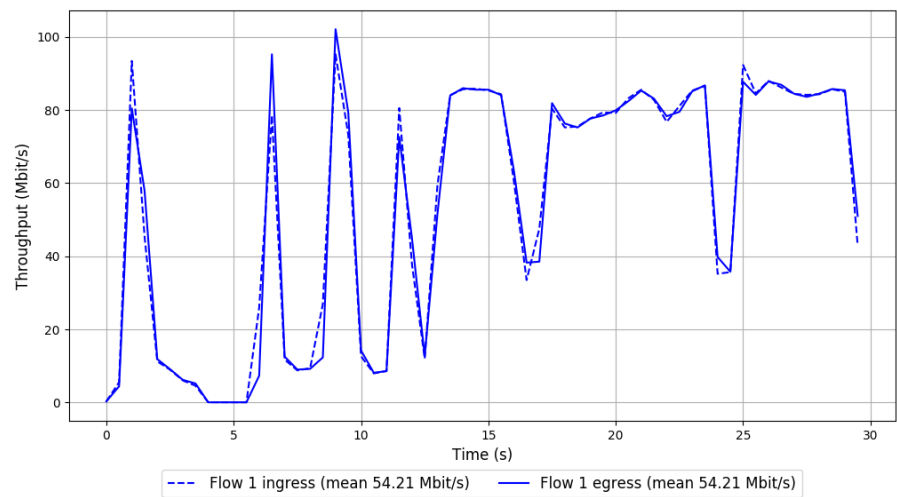
-- Flow 1:

Average throughput: 54.21 Mbit/s

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

Loss rate: 0.02%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-27 06:36:55

End at: 2018-03-27 06:37:25

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.02%

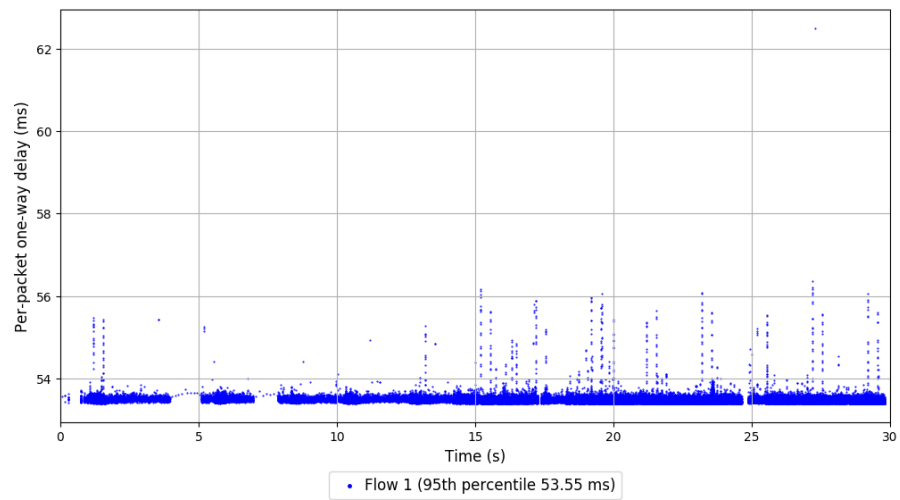
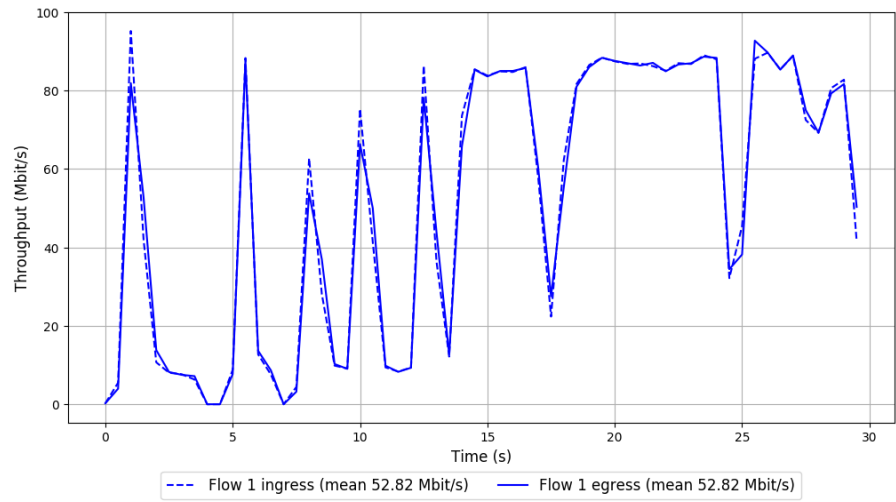
-- Flow 1:

Average throughput: 52.82 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-27 06:51:51

End at: 2018-03-27 06:52:21

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 49.967 ms

Loss rate: 0.00%

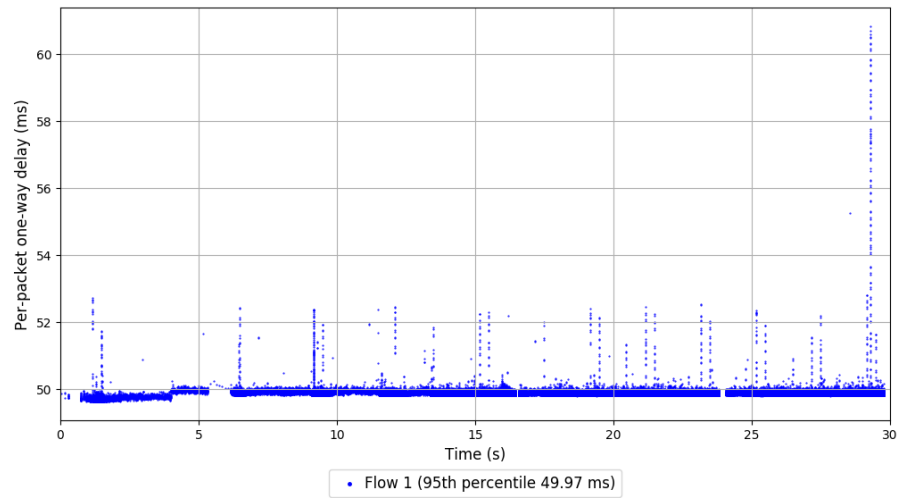
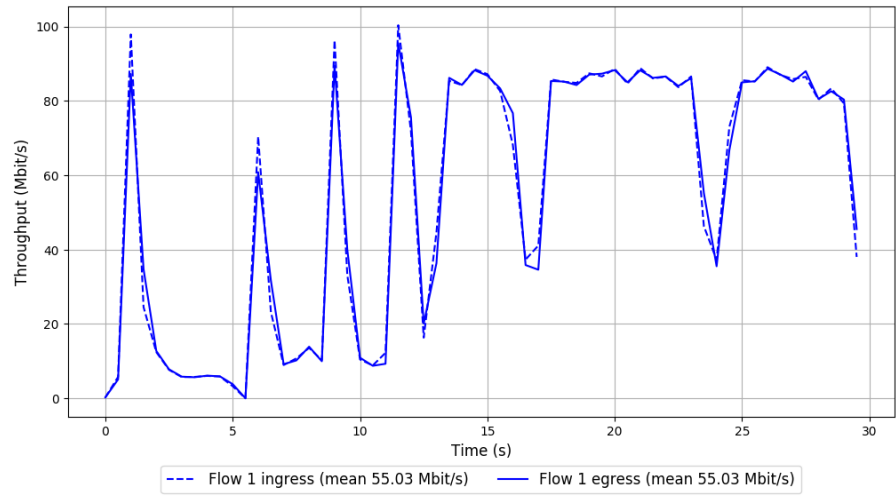
-- Flow 1:

Average throughput: 55.03 Mbit/s

95th percentile per-packet one-way delay: 49.967 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-27 07:06:02

End at: 2018-03-27 07:06:32

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 53.392 ms

Loss rate: 0.01%

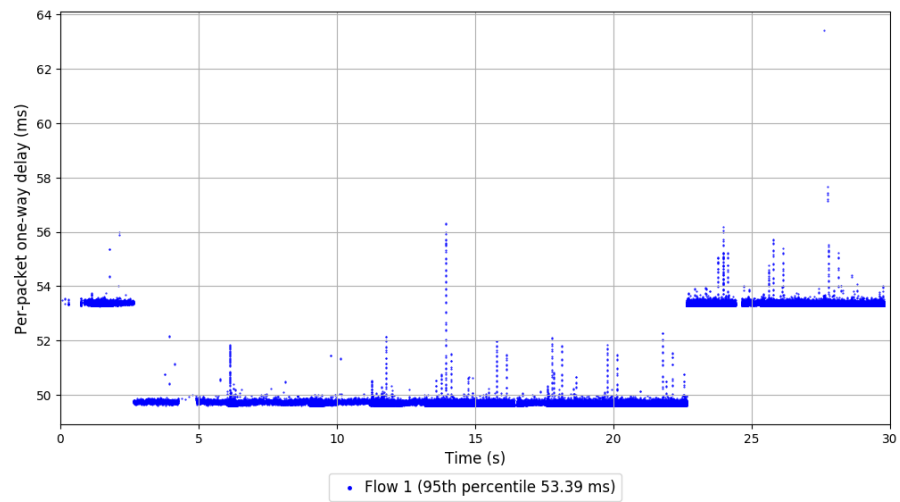
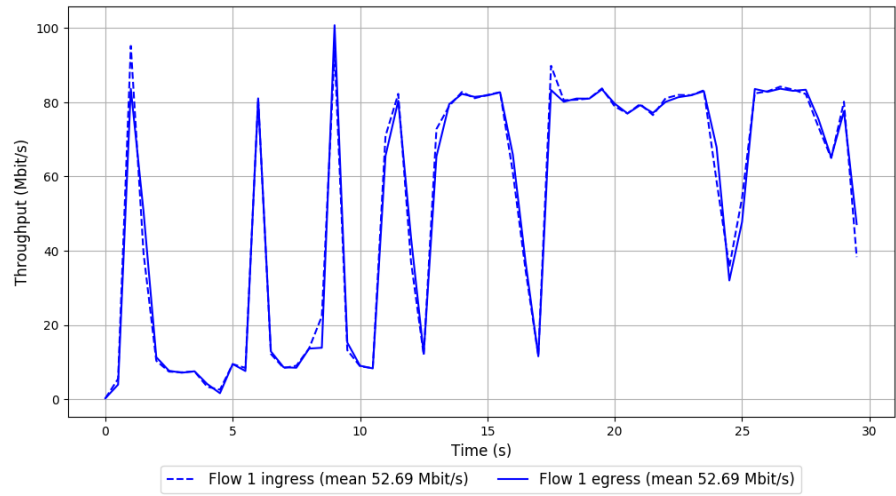
-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 53.392 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 07:20:21

End at: 2018-03-27 07:20:51

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.02%

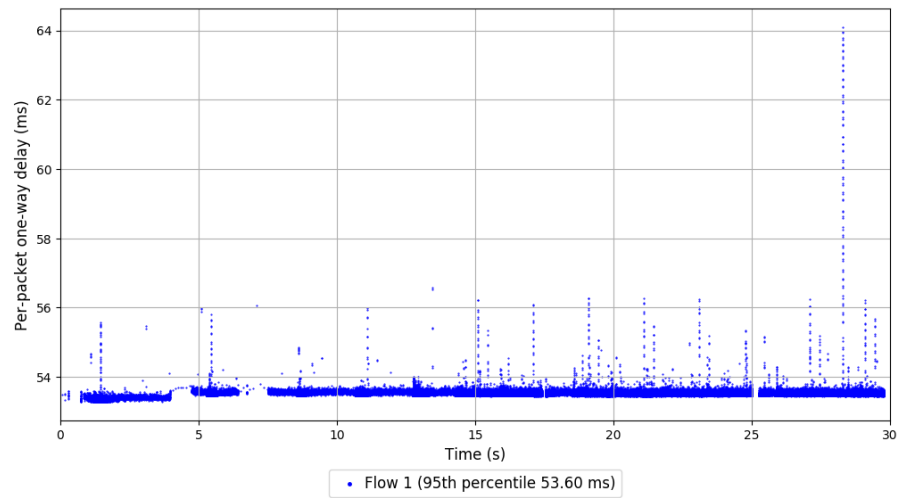
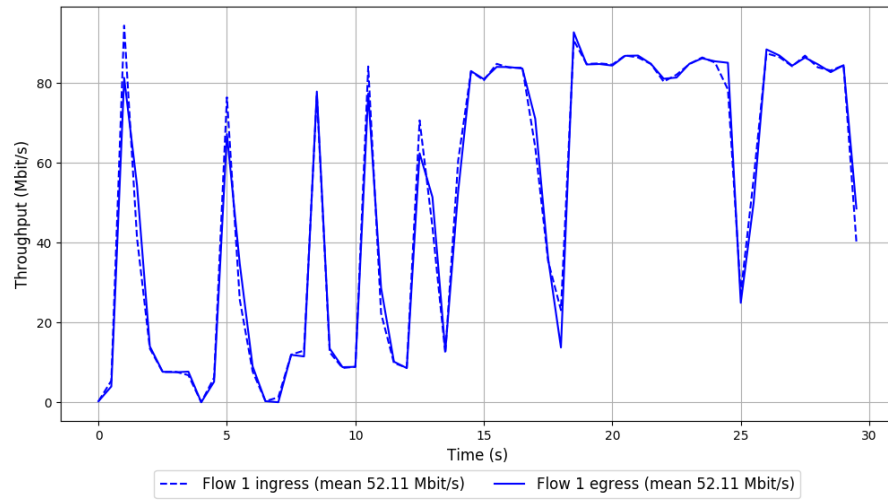
-- Flow 1:

Average throughput: 52.11 Mbit/s

95th percentile per-packet one-way delay: 53.605 ms

Loss rate: 0.02%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 07:35:00

End at: 2018-03-27 07:35:30

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 50.036 ms

Loss rate: 0.00%

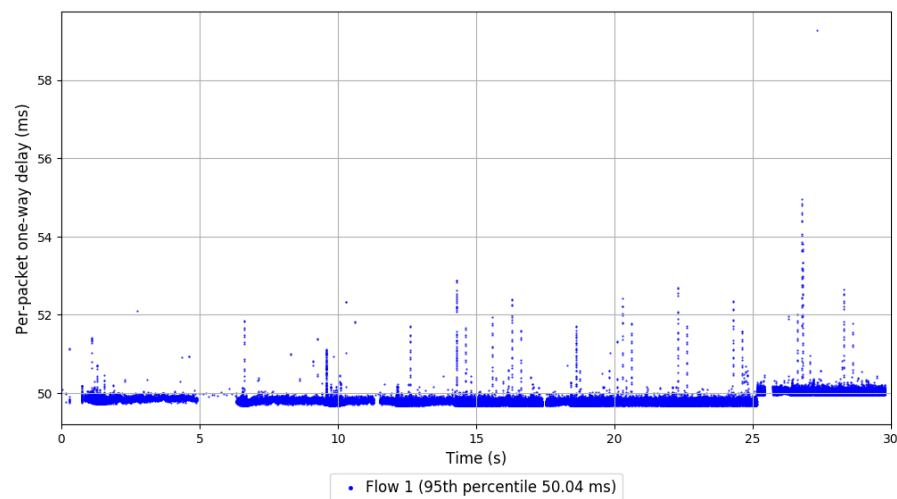
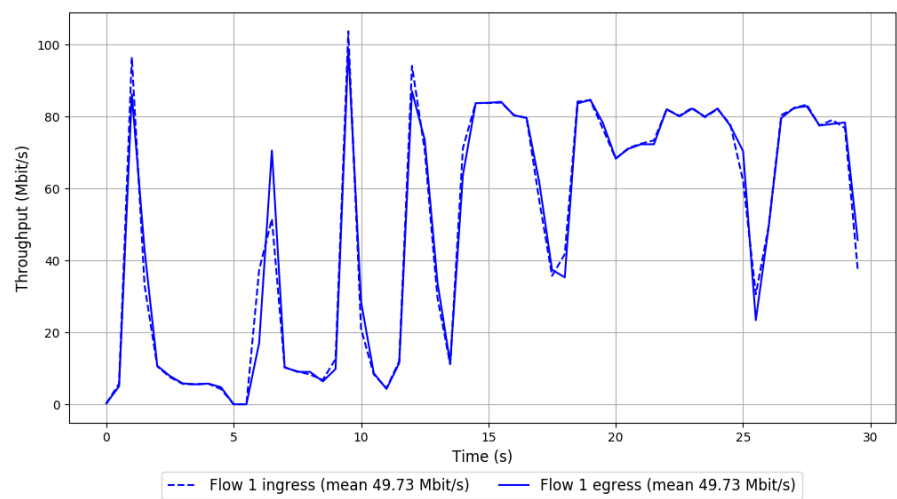
-- Flow 1:

Average throughput: 49.73 Mbit/s

95th percentile per-packet one-way delay: 50.036 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 07:49:37

End at: 2018-03-27 07:50:07

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.01%

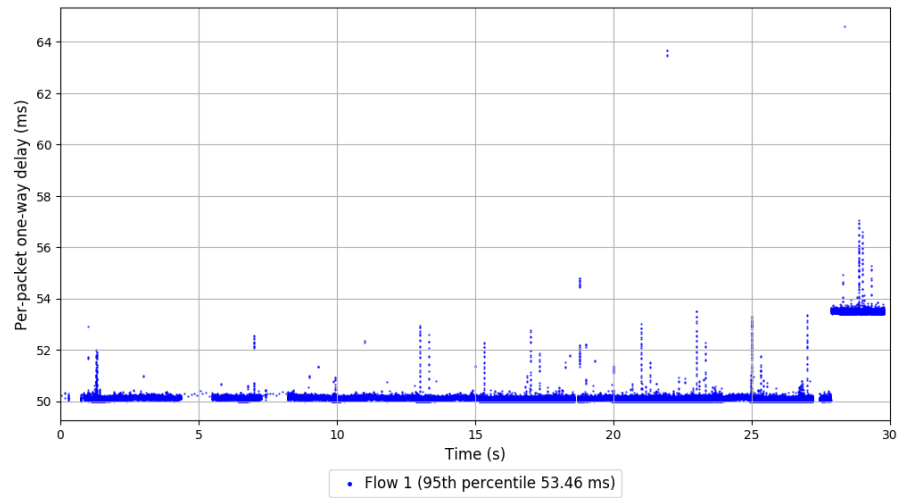
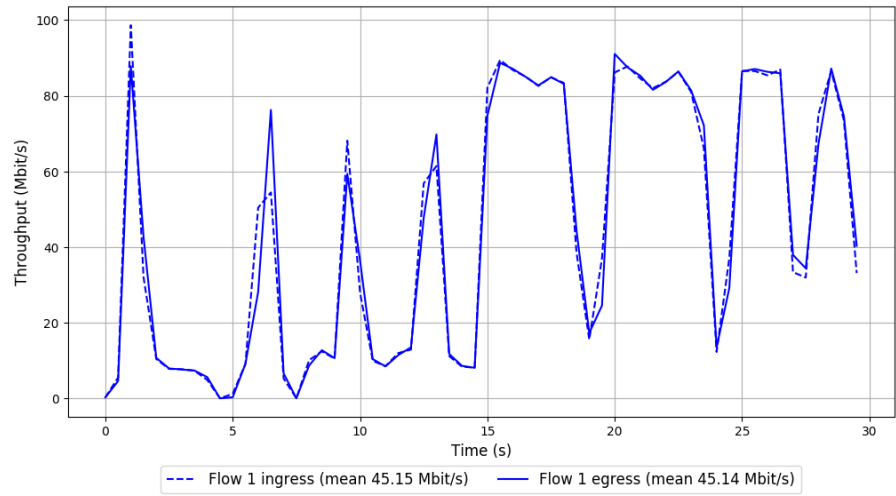
-- Flow 1:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 53.459 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 08:04:10

End at: 2018-03-27 08:04:40

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.29 Mbit/s

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

Loss rate: 0.00%

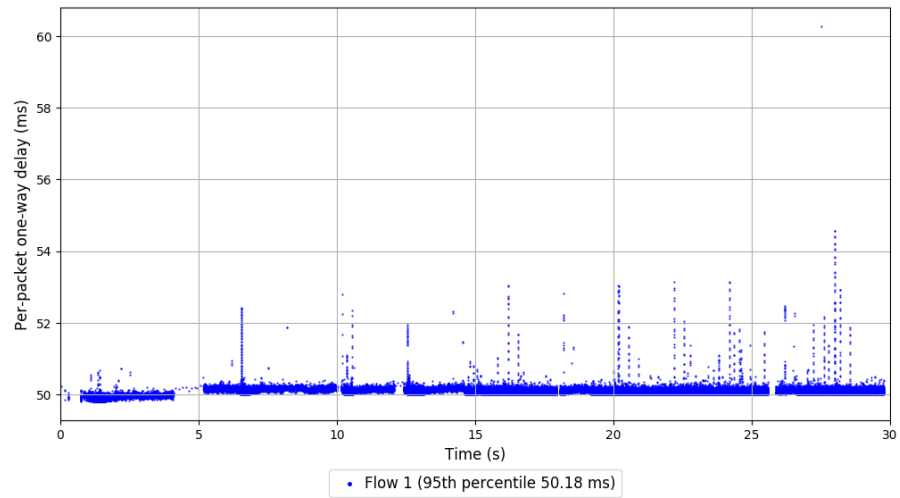
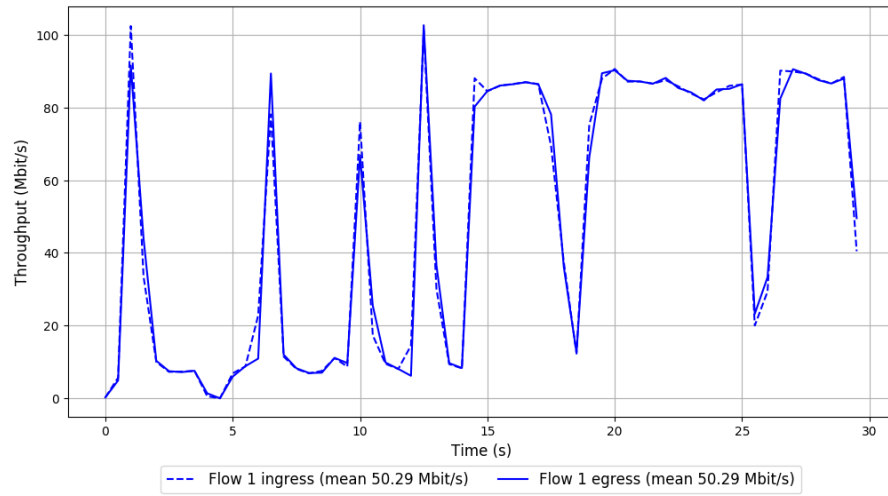
-- Flow 1:

Average throughput: 50.29 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

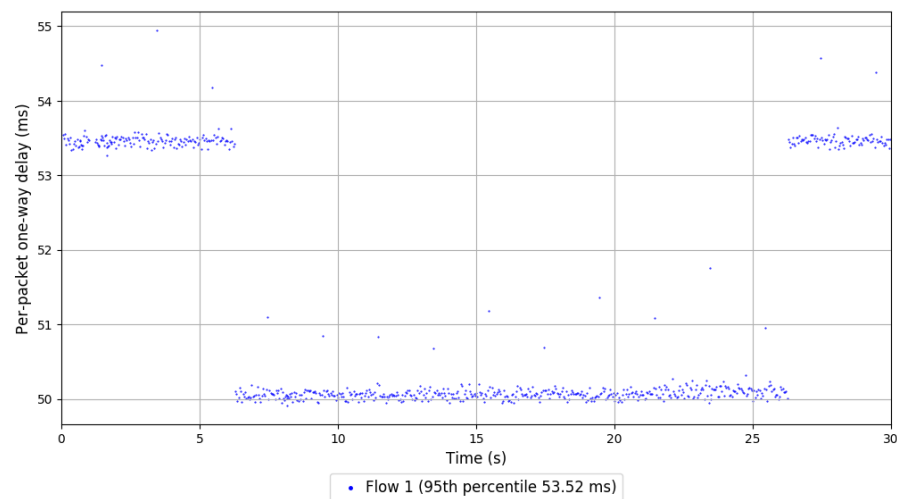
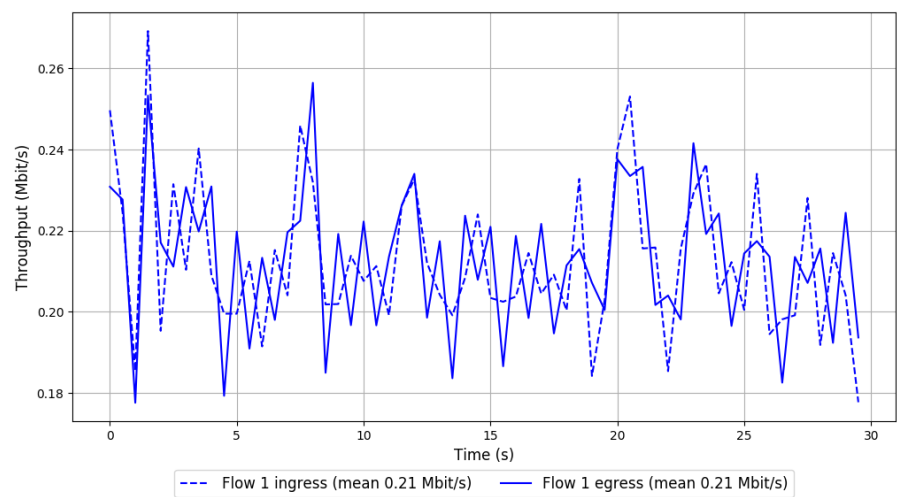


```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 05:59:09
End at: 2018-03-27 05:59:39

# Below is generated by plot.py at 2018-03-27 10:48:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-03-27 06:13:36

End at: 2018-03-27 06:14:06

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.878 ms

Loss rate: 0.00%

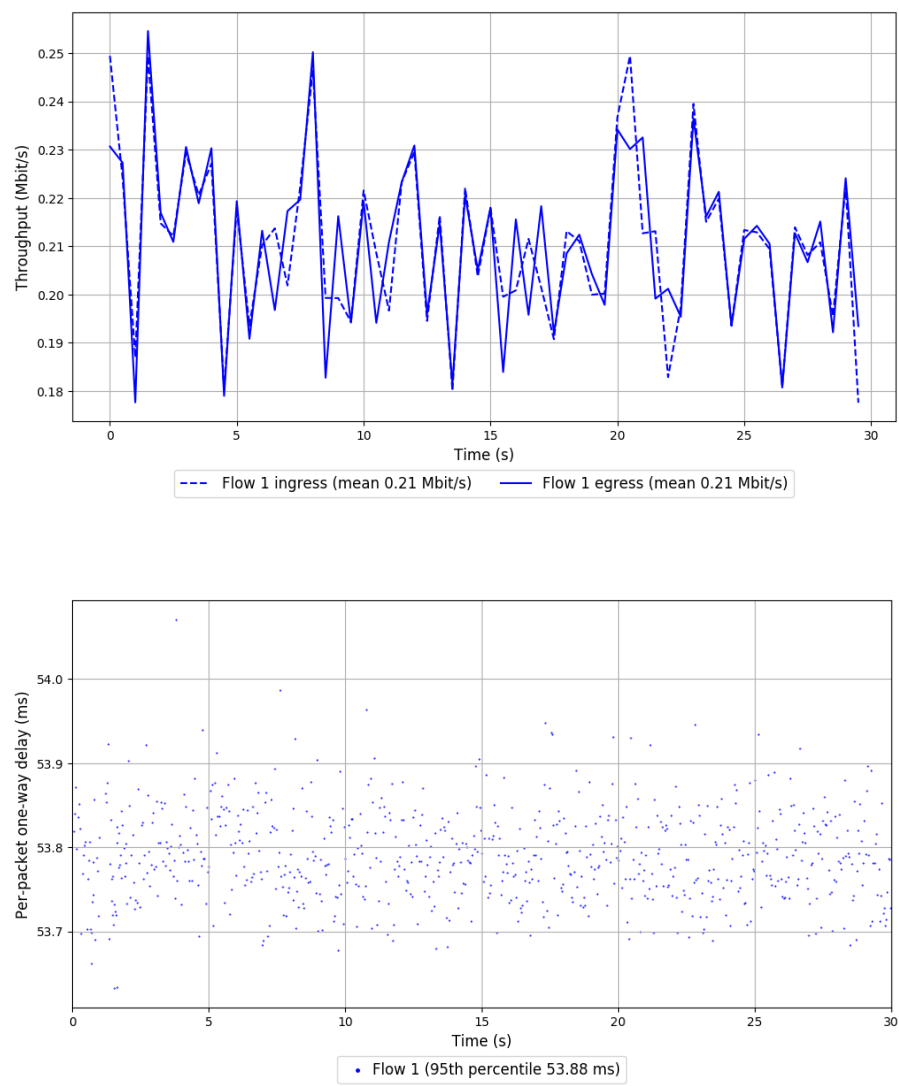
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.878 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-27 06:27:52

End at: 2018-03-27 06:28:22

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.051 ms

Loss rate: 0.00%

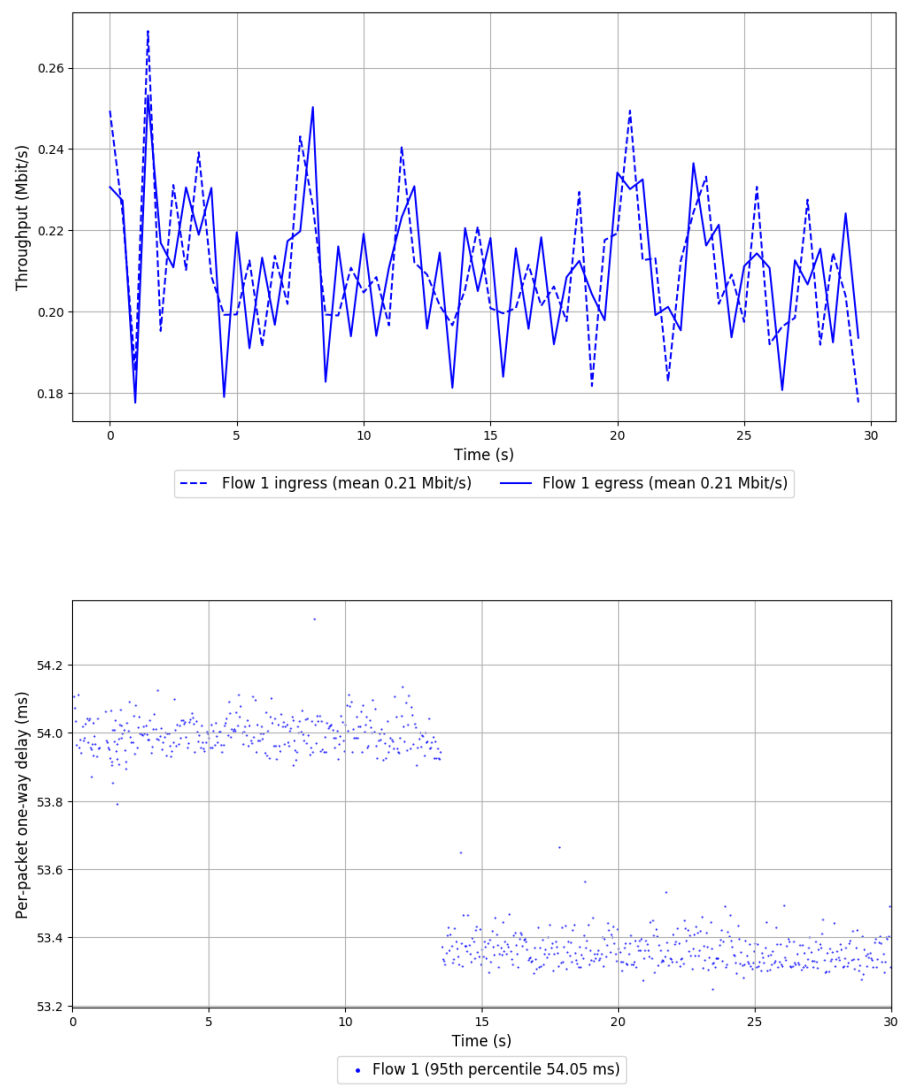
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.051 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-27 06:42:20

End at: 2018-03-27 06:42:50

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.00%

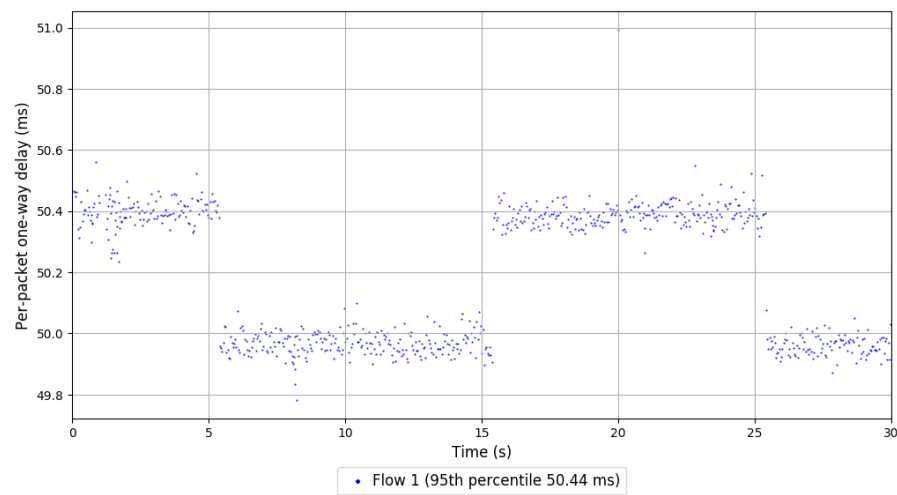
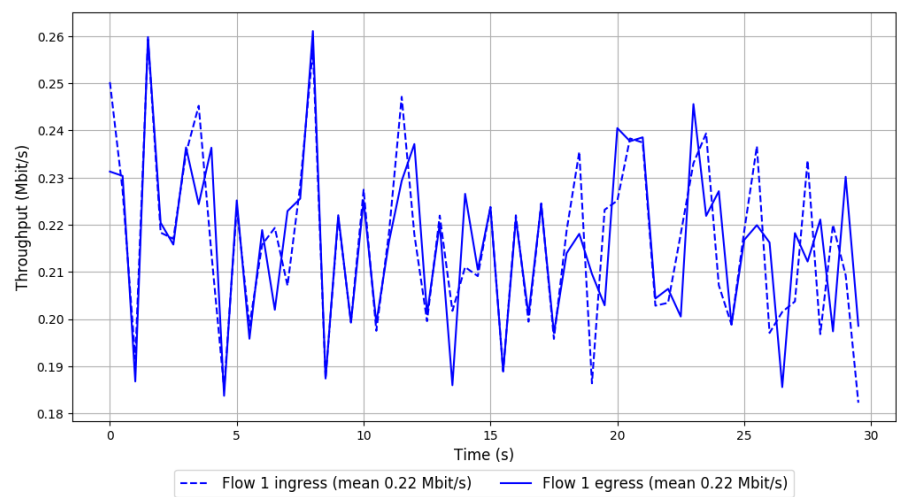
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.442 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-27 06:57:00

End at: 2018-03-27 06:57:30

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

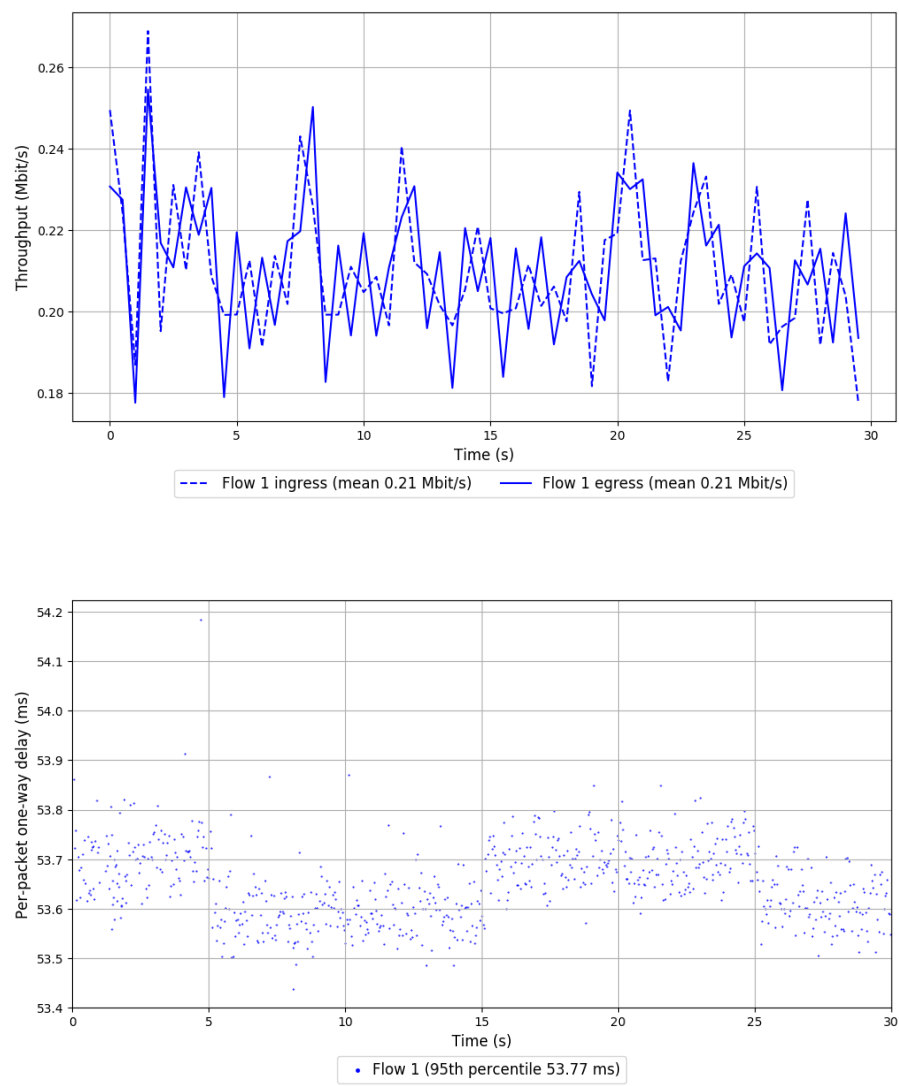
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-27 07:11:14

End at: 2018-03-27 07:11:44

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.00%

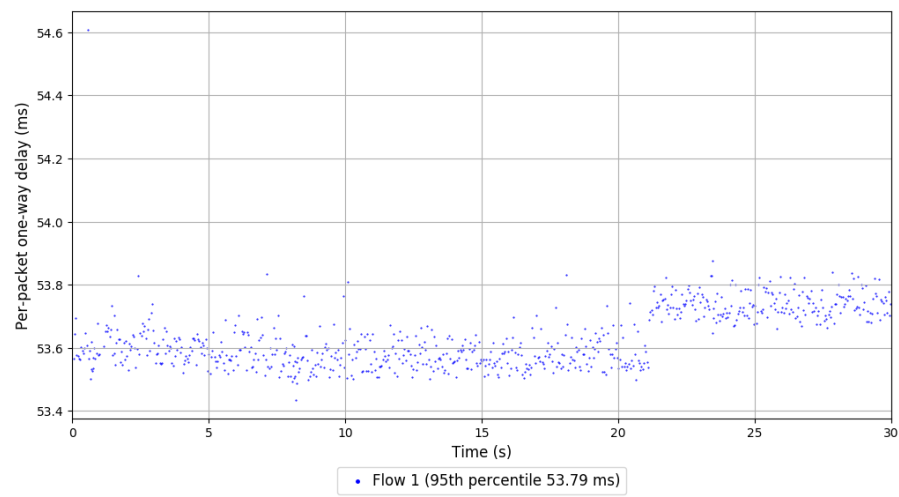
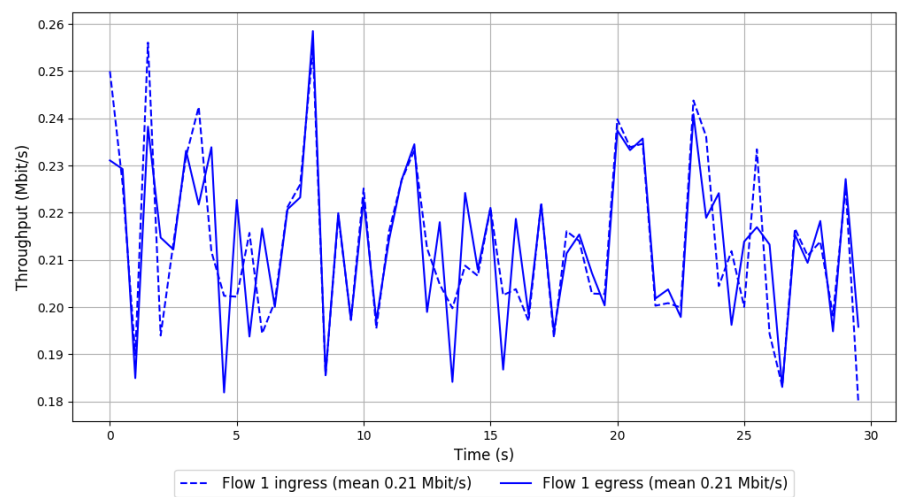
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.786 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-27 07:25:46

End at: 2018-03-27 07:26:16

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.00%

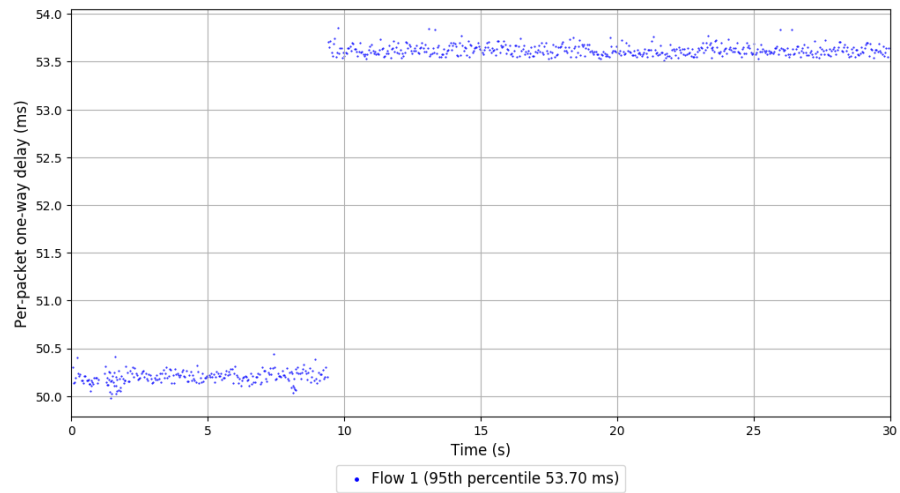
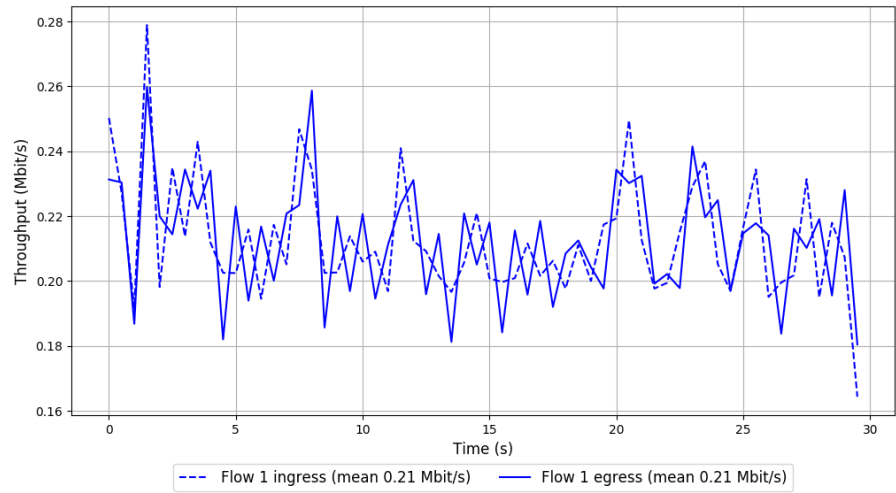
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.699 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-27 07:40:23

End at: 2018-03-27 07:40:53

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.00%

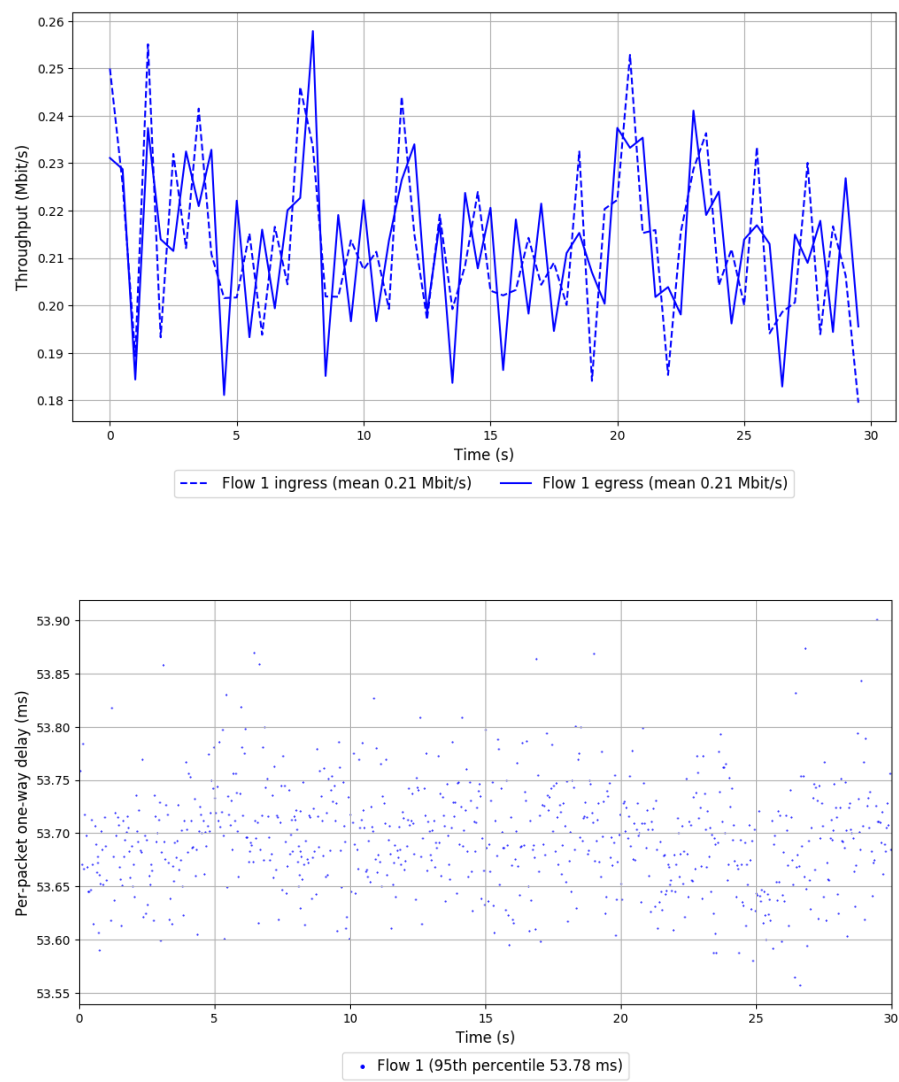
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.780 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-27 07:54:47

End at: 2018-03-27 07:55:17

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.00%

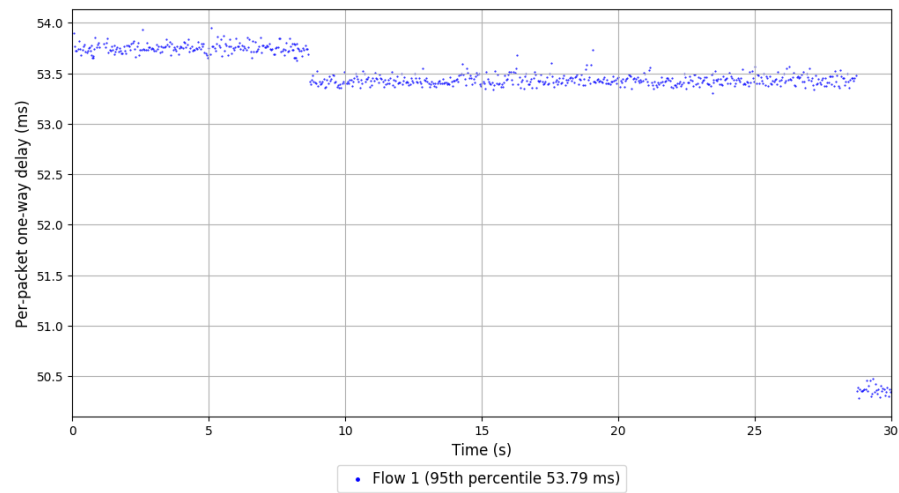
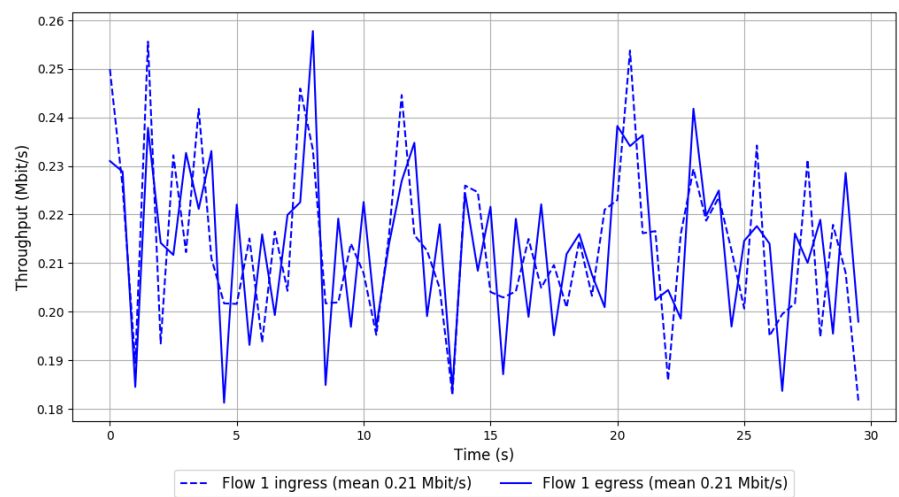
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.794 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

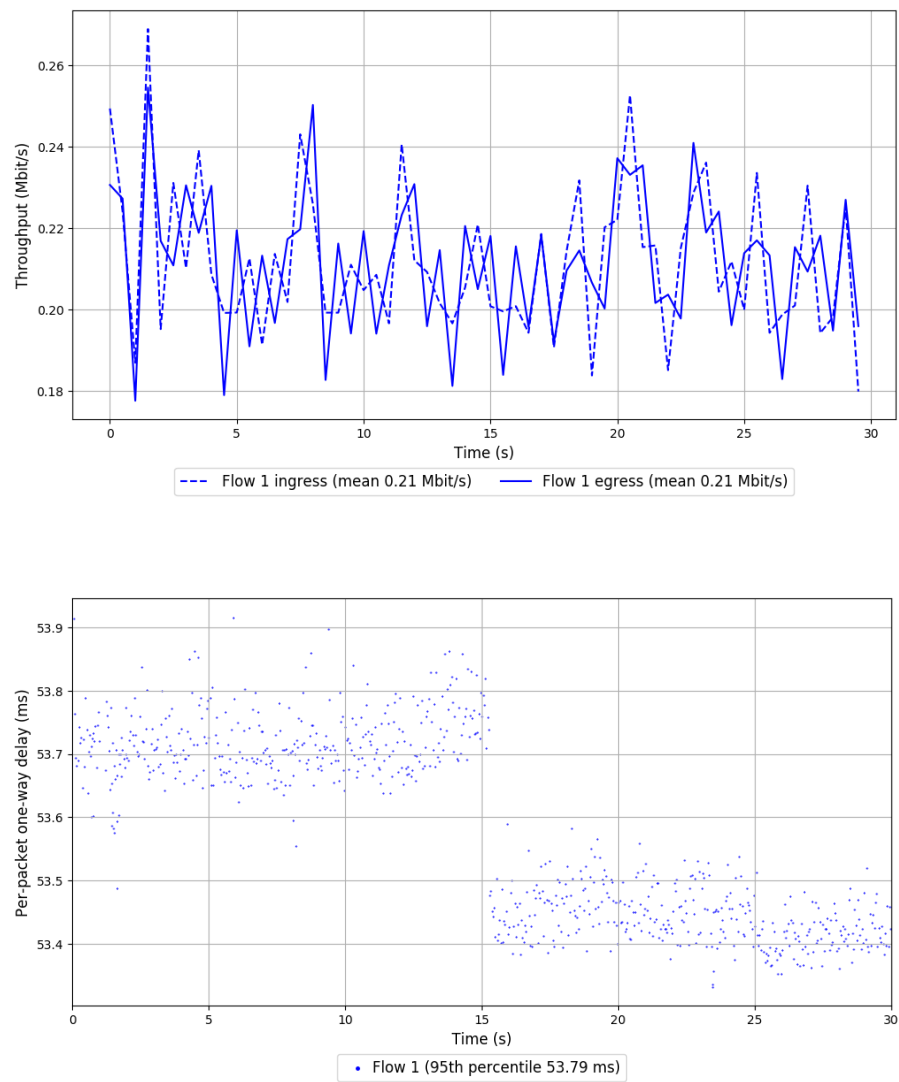


```
Run 10: Statistics of SReAM

Start at: 2018-03-27 08:09:20
End at: 2018-03-27 08:09:50

# Below is generated by plot.py at 2018-03-27 10:48:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
```

Run 10: Report of SReAM — Data Link

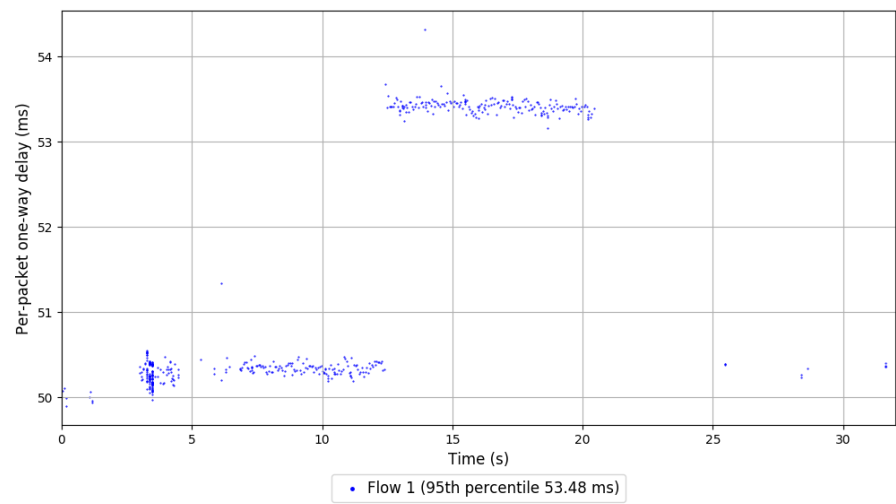
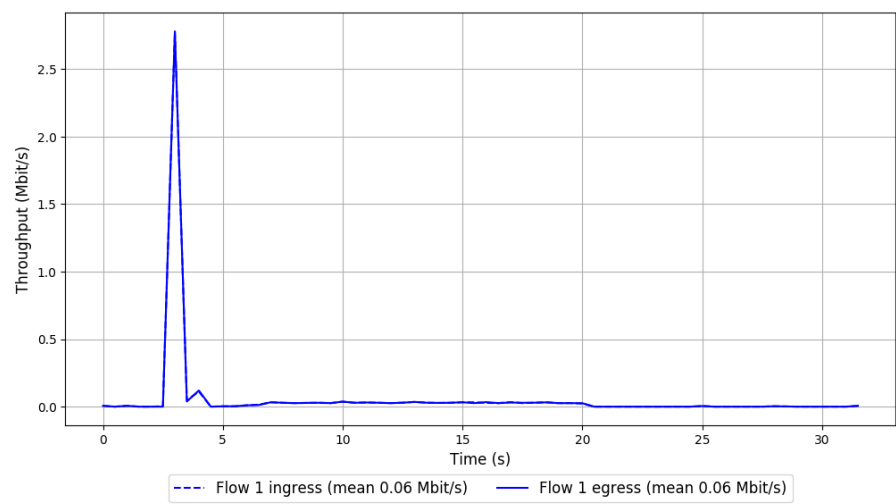


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-27 05:55:25
End at: 2018-03-27 05:55:55

# Below is generated by plot.py at 2018-03-27 10:48:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.481 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.481 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-03-27 06:09:36

End at: 2018-03-27 06:10:06

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 0.00%

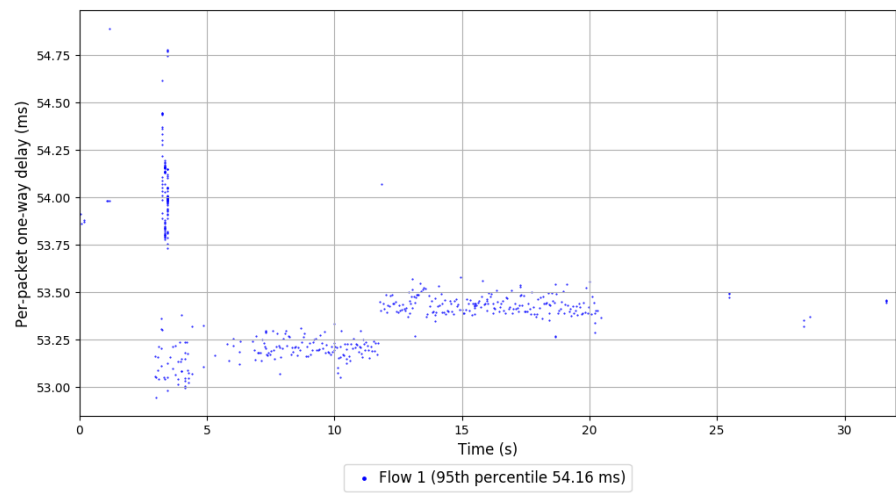
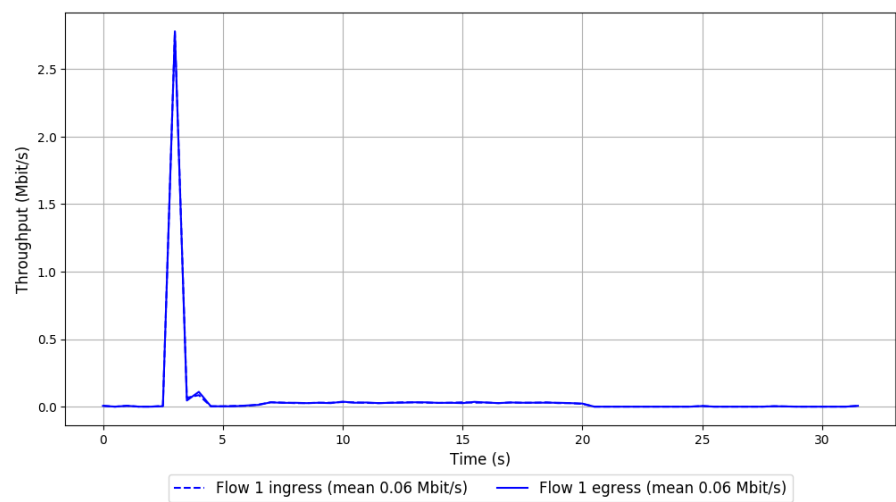
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.159 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-27 06:24:11

End at: 2018-03-27 06:24:41

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.00%

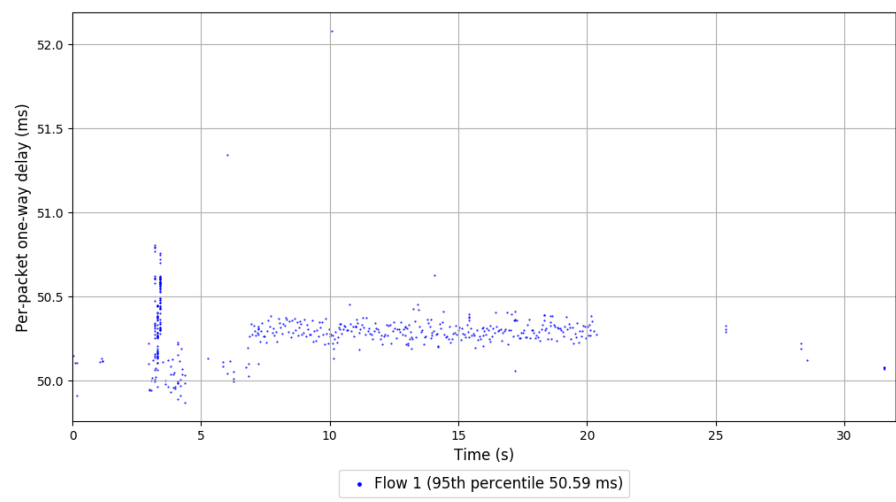
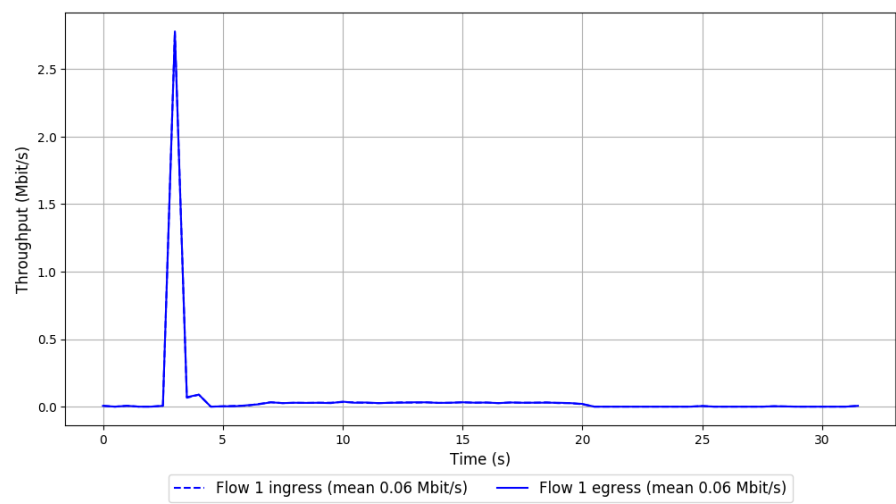
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.586 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-27 06:38:22

End at: 2018-03-27 06:38:52

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.00%

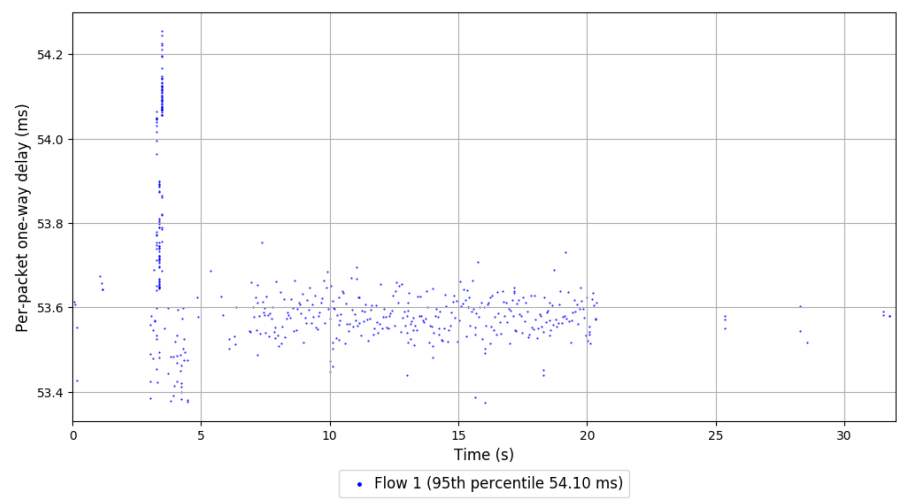
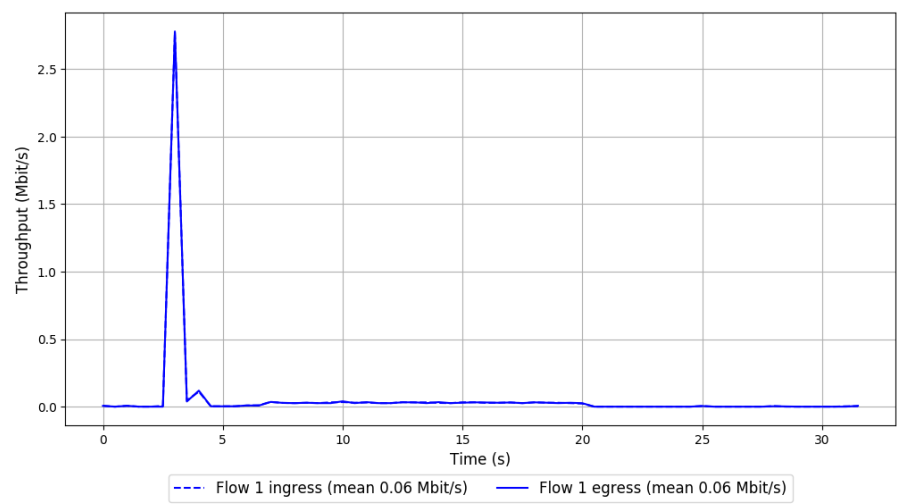
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.098 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-27 06:53:18

End at: 2018-03-27 06:53:48

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.599 ms

Loss rate: 0.00%

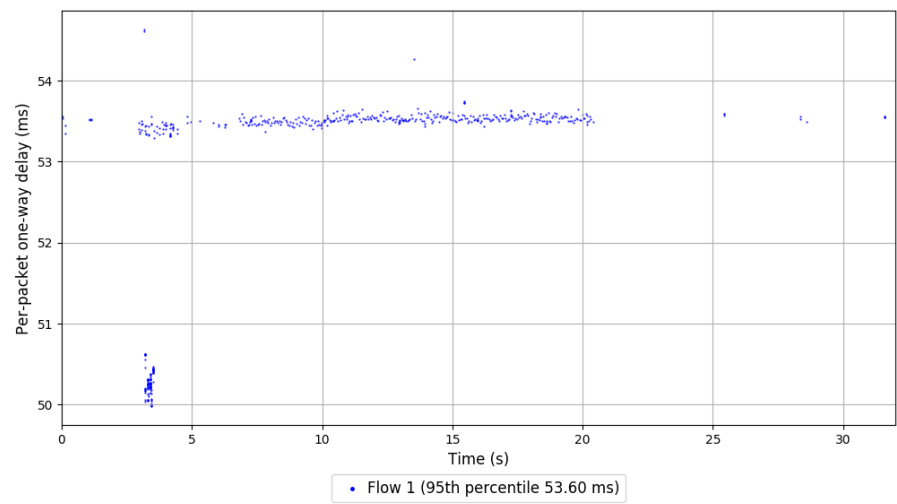
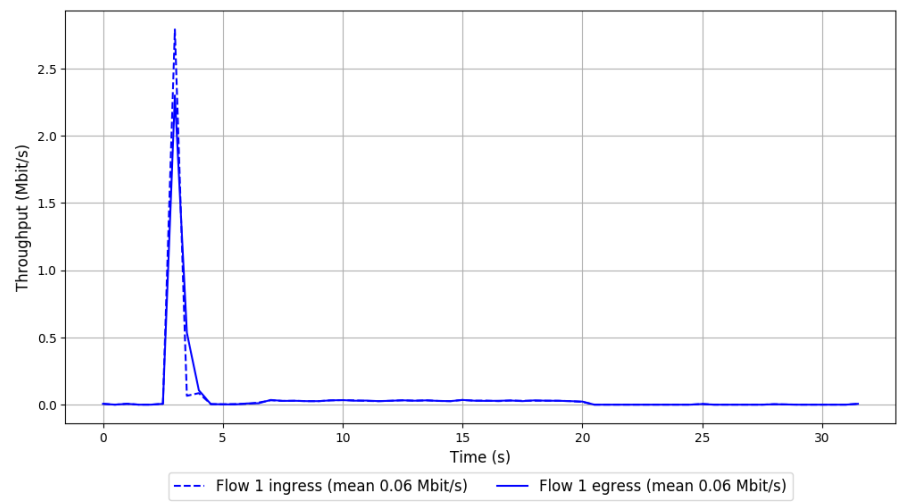
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.599 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-03-27 07:07:29

End at: 2018-03-27 07:07:59

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.00%

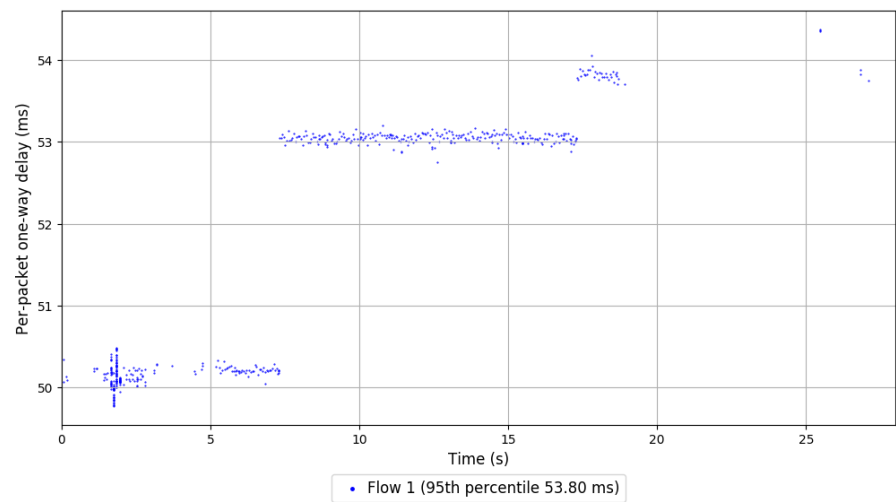
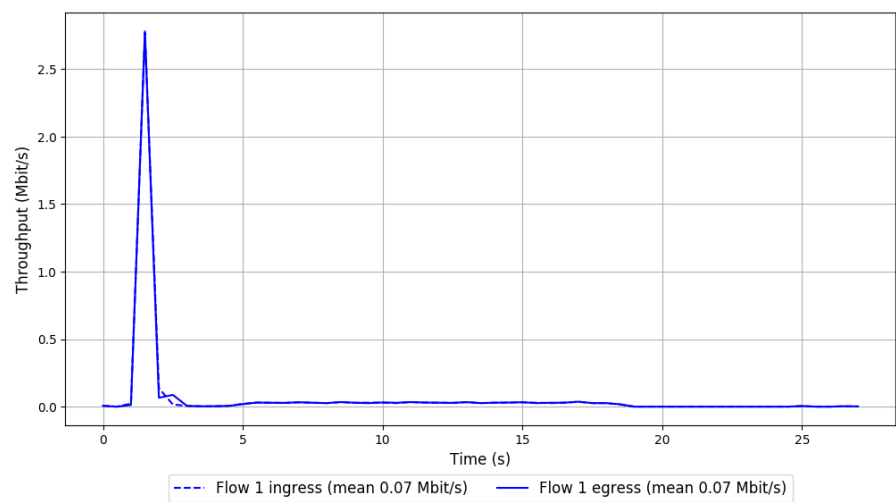
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.798 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-27 07:21:48

End at: 2018-03-27 07:22:18

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 50.499 ms

Loss rate: 0.00%

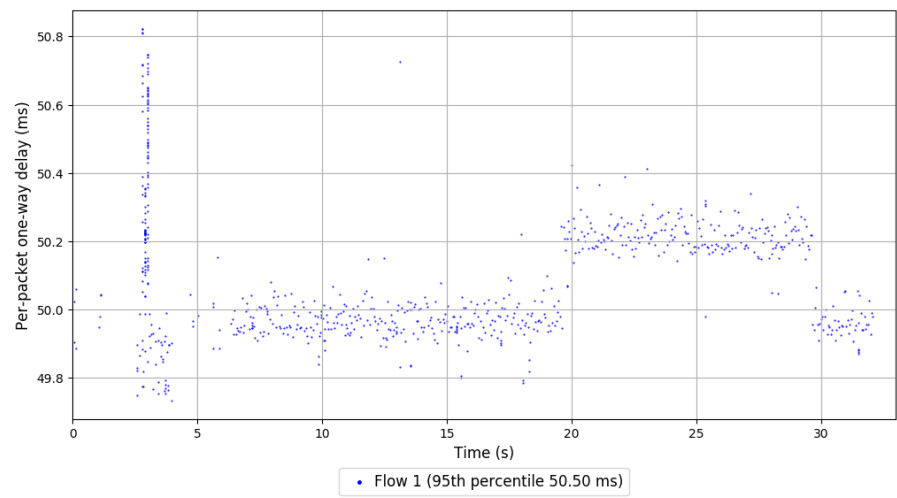
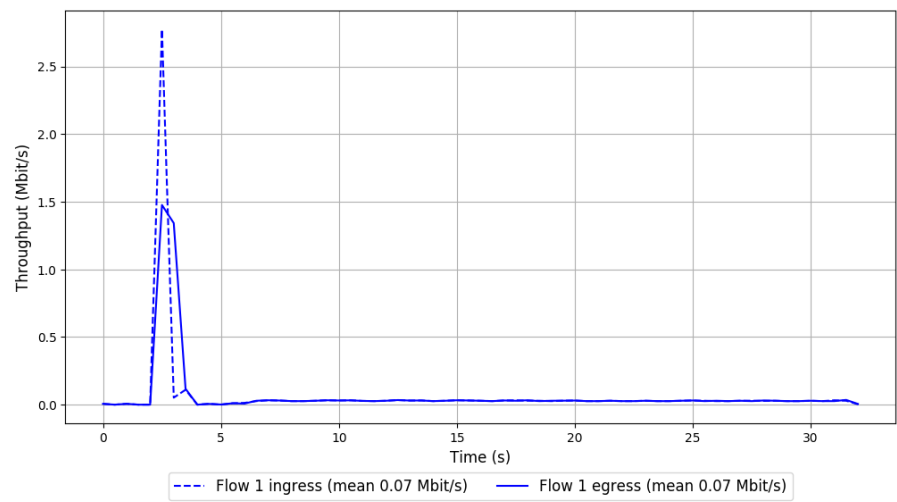
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 50.499 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-27 07:36:26

End at: 2018-03-27 07:36:56

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.693 ms

Loss rate: 0.00%

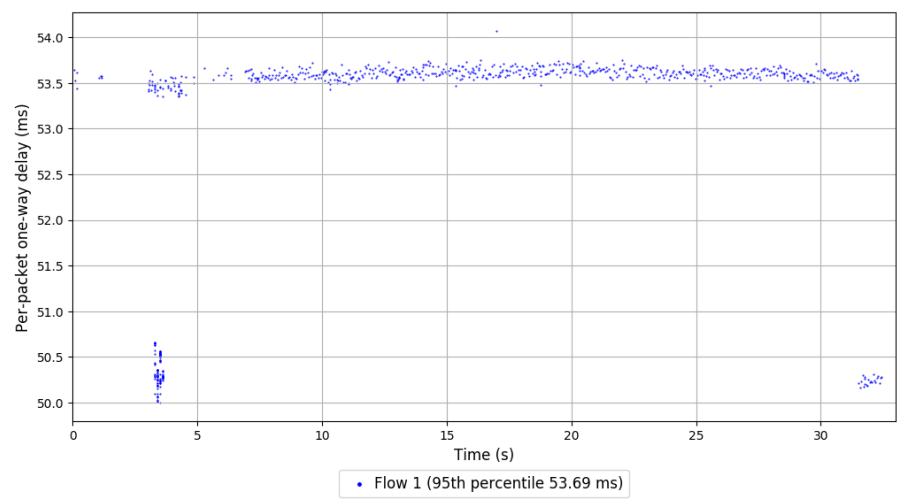
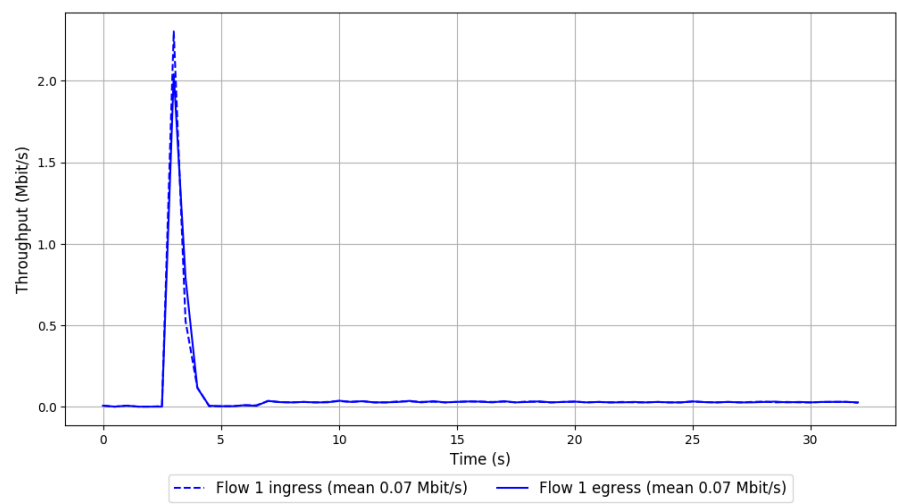
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.693 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-27 07:51:03

End at: 2018-03-27 07:51:33

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.00%

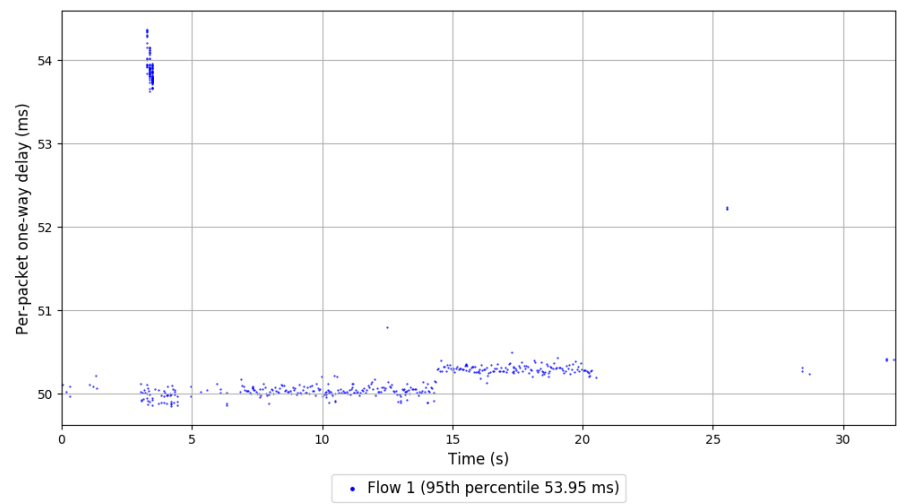
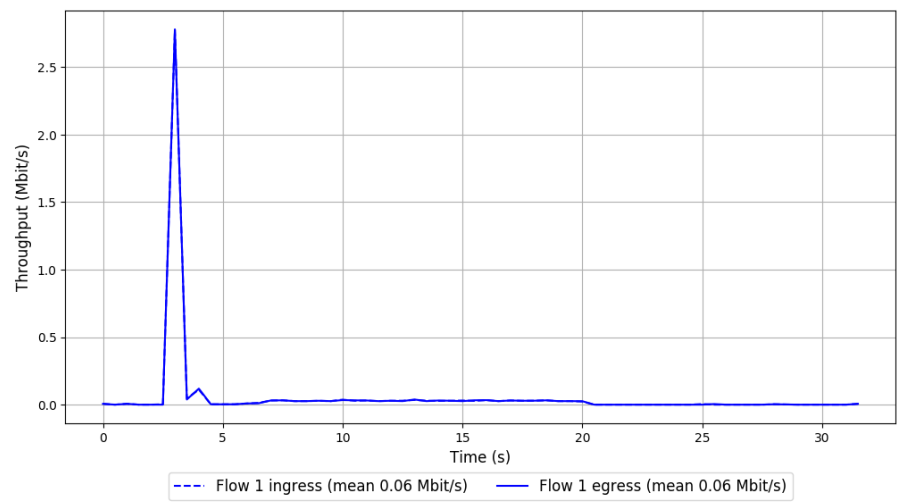
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.951 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-27 08:05:36

End at: 2018-03-27 08:06:06

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.196 ms

Loss rate: 0.00%

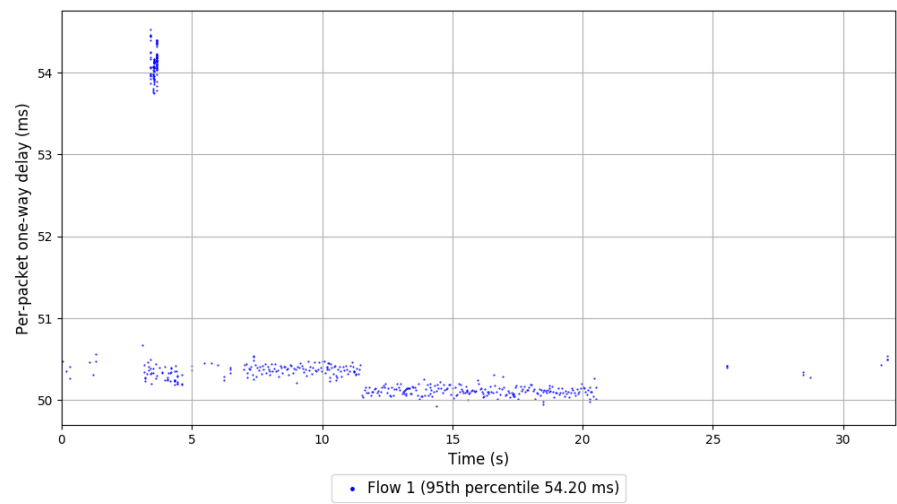
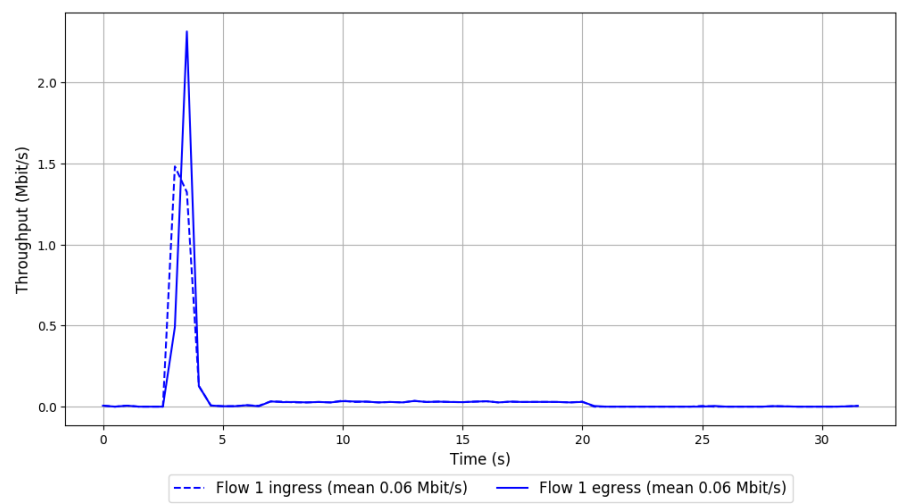
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.196 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-27 05:59:46

End at: 2018-03-27 06:00:16

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

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

Loss rate: 0.00%

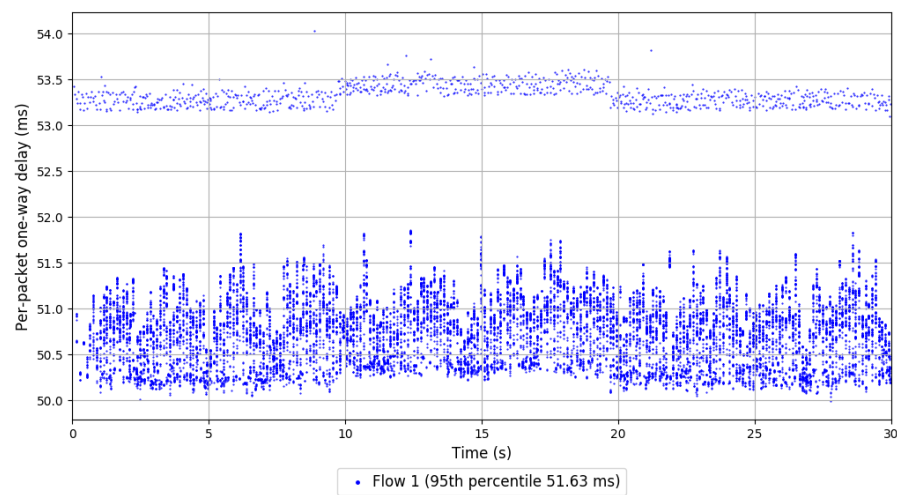
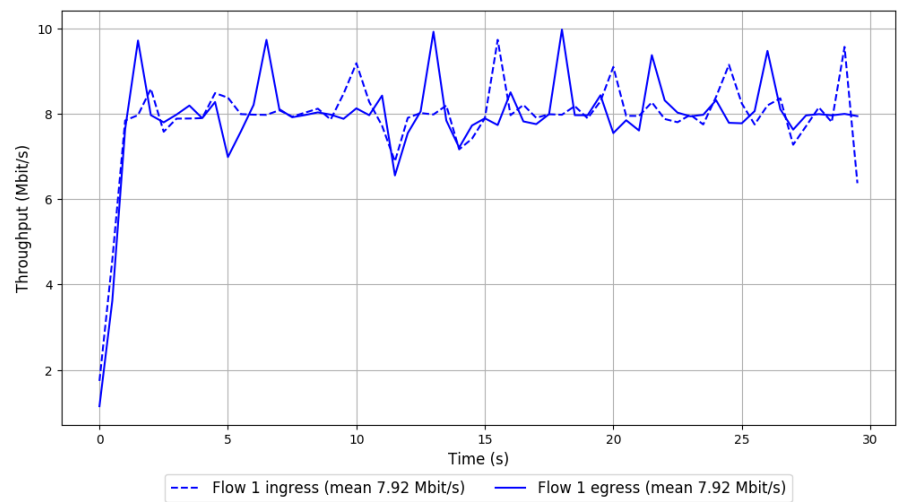
-- Flow 1:

Average throughput: 7.92 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-27 06:14:13

End at: 2018-03-27 06:14:43

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.927 ms

Loss rate: 0.00%

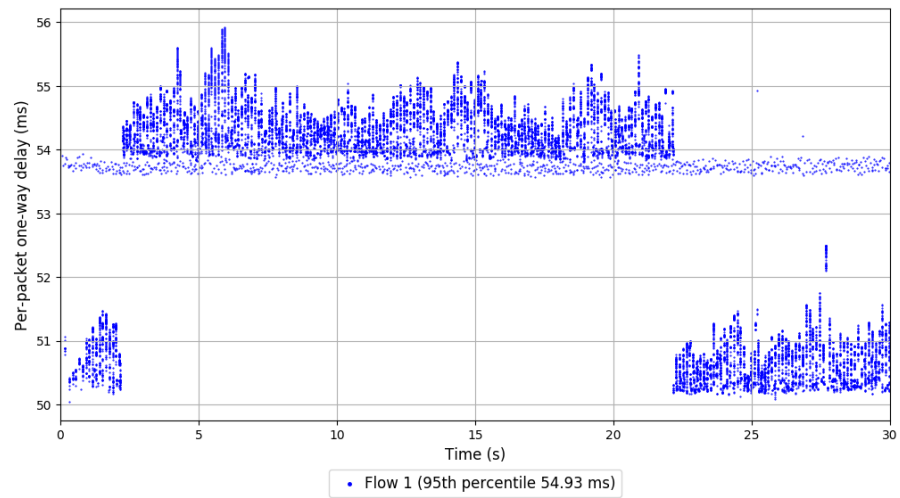
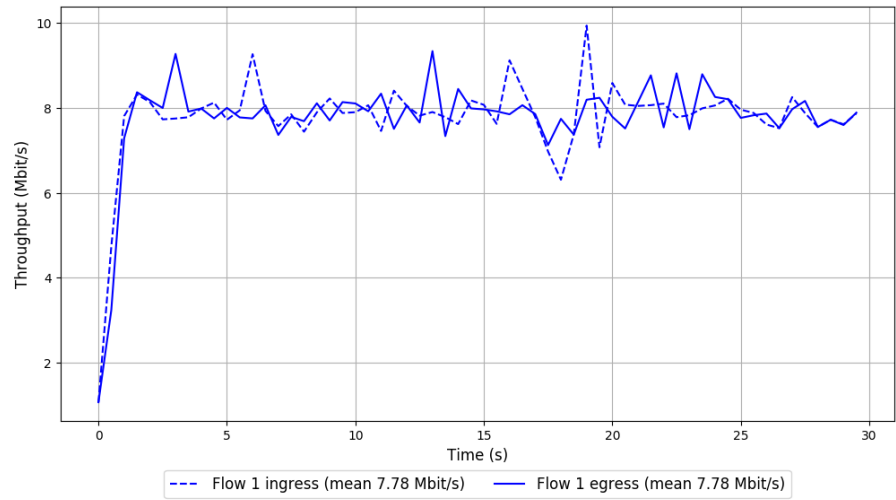
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.927 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-27 06:28:28

End at: 2018-03-27 06:28:58

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.901 ms

Loss rate: 0.00%

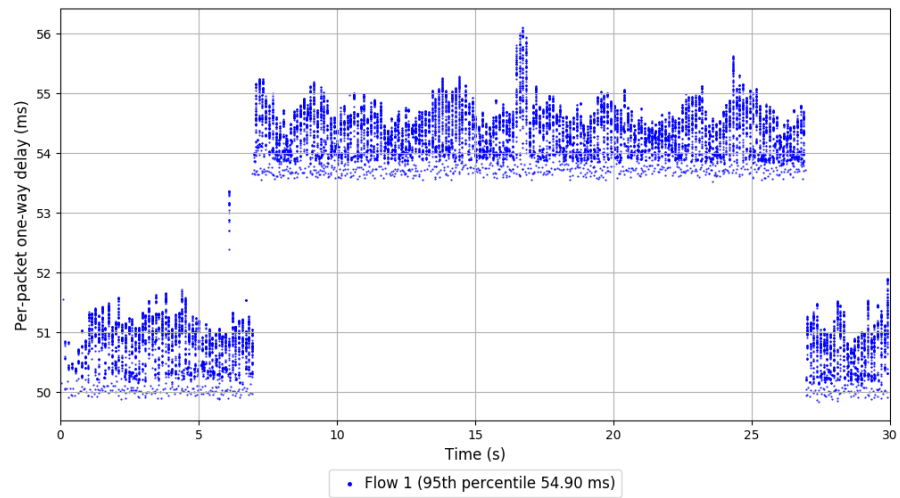
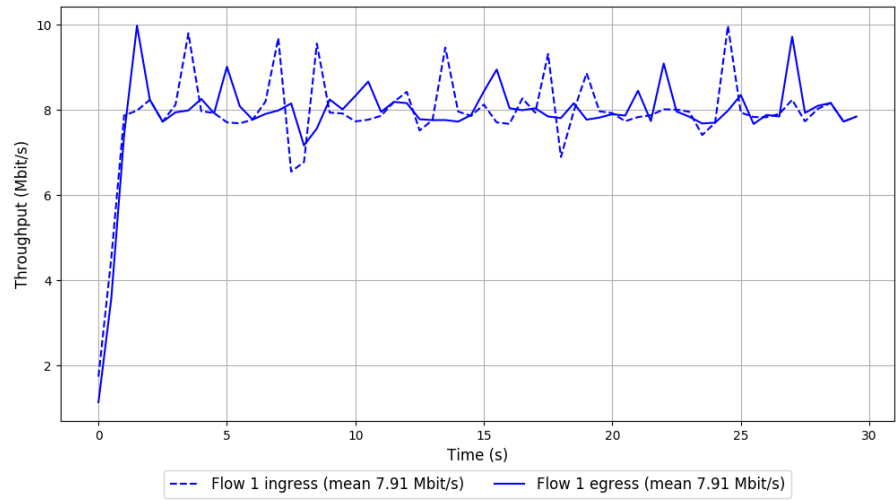
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 54.901 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-27 06:42:56

End at: 2018-03-27 06:43:26

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.789 ms

Loss rate: 0.00%

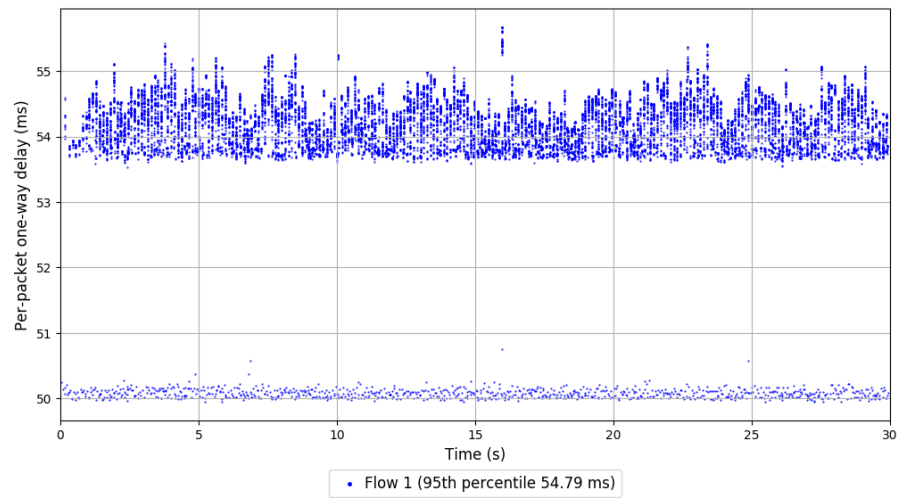
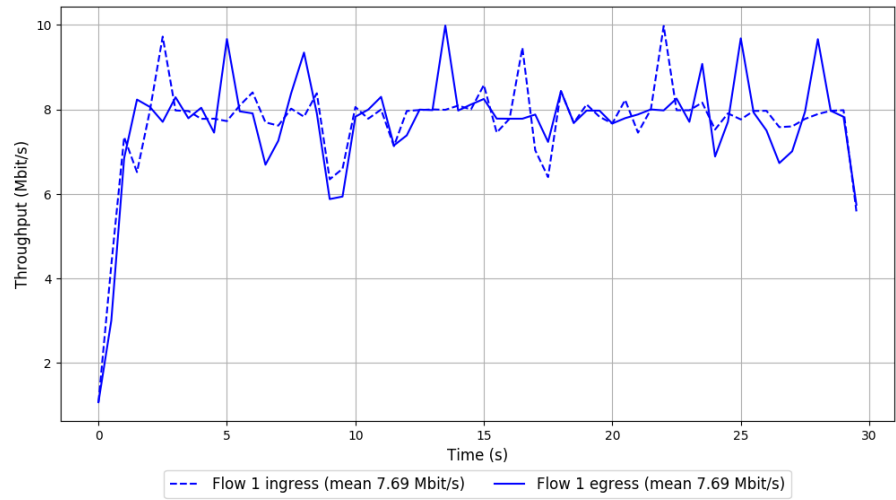
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 54.789 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-27 06:57:37

End at: 2018-03-27 06:58:07

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 0.00%

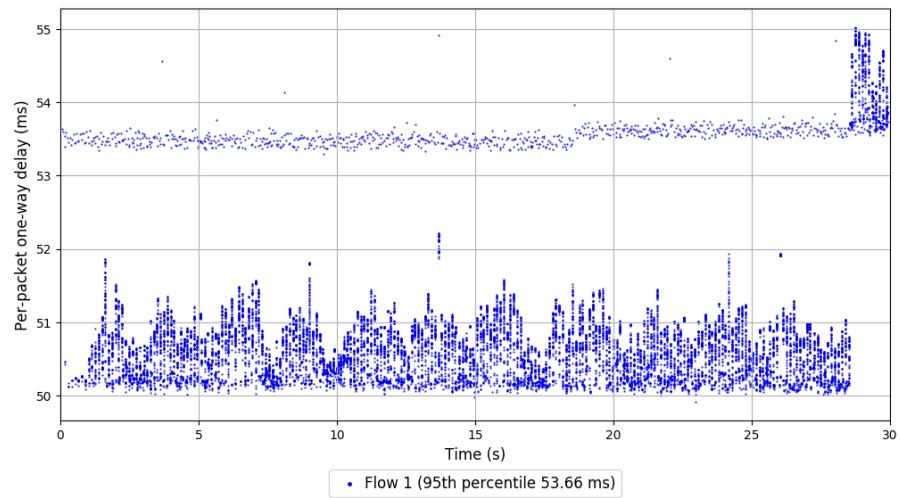
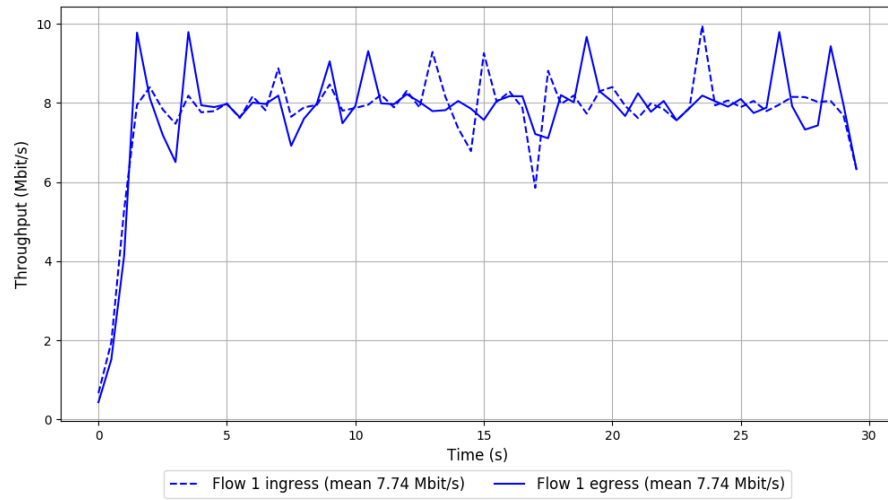
-- Flow 1:

Average throughput: 7.74 Mbit/s

95th percentile per-packet one-way delay: 53.662 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-27 07:11:51

End at: 2018-03-27 07:12:21

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.443 ms

Loss rate: 0.00%

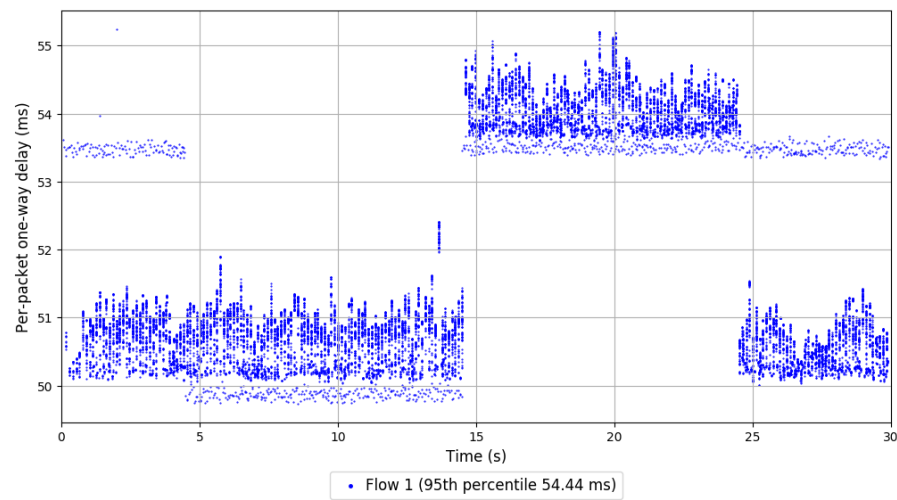
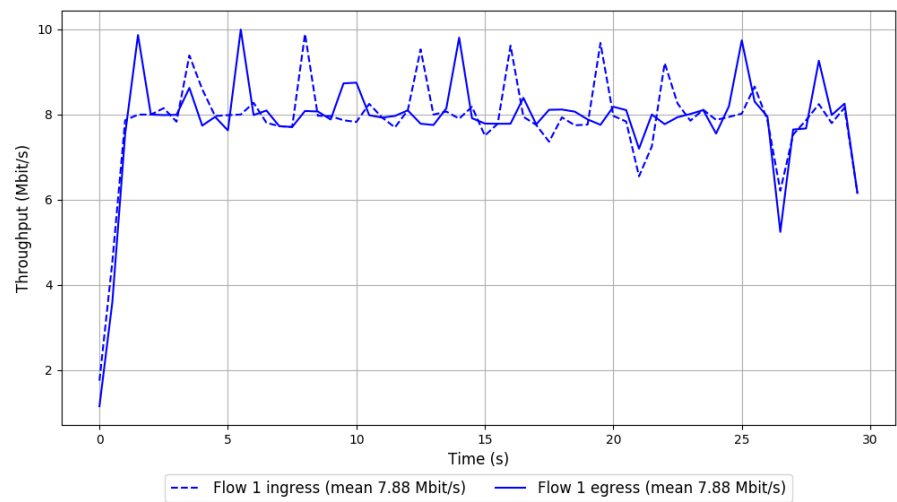
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 54.443 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-27 07:26:22

End at: 2018-03-27 07:26:52

Below is generated by plot.py at 2018-03-27 10:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 54.001 ms

Loss rate: 0.00%

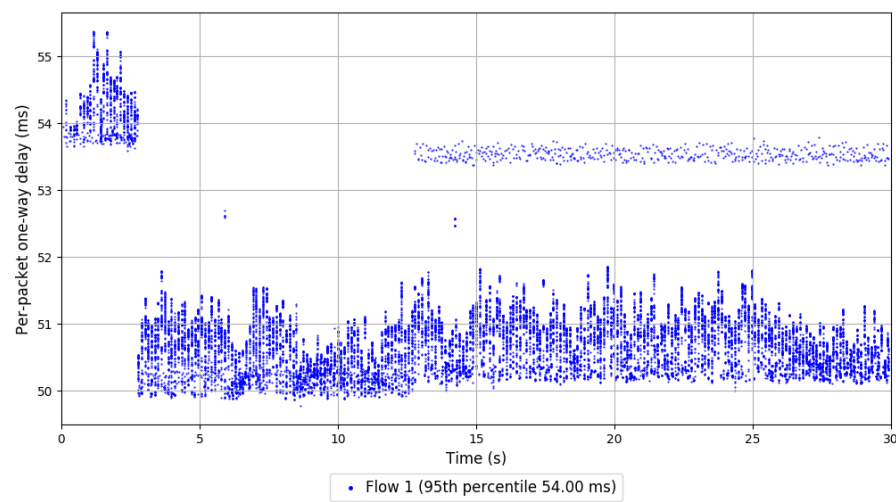
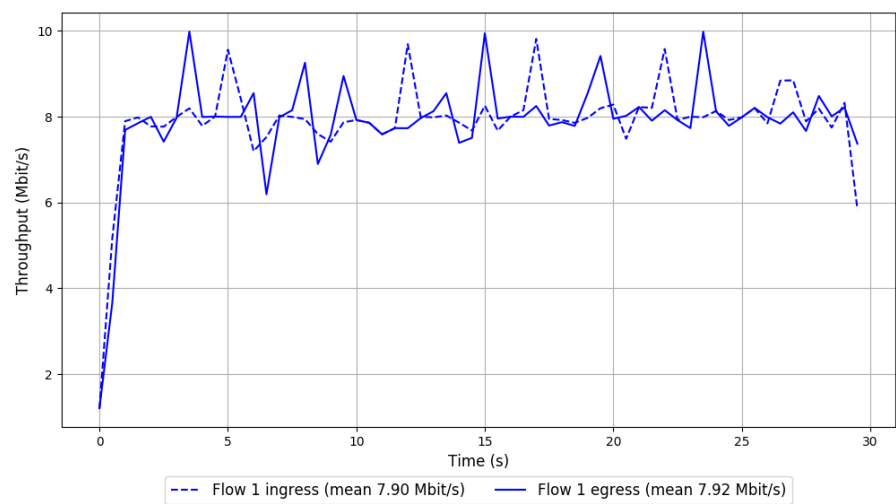
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 54.001 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-27 07:41:00

End at: 2018-03-27 07:41:30

Below is generated by plot.py at 2018-03-27 10:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.806 ms

Loss rate: 0.00%

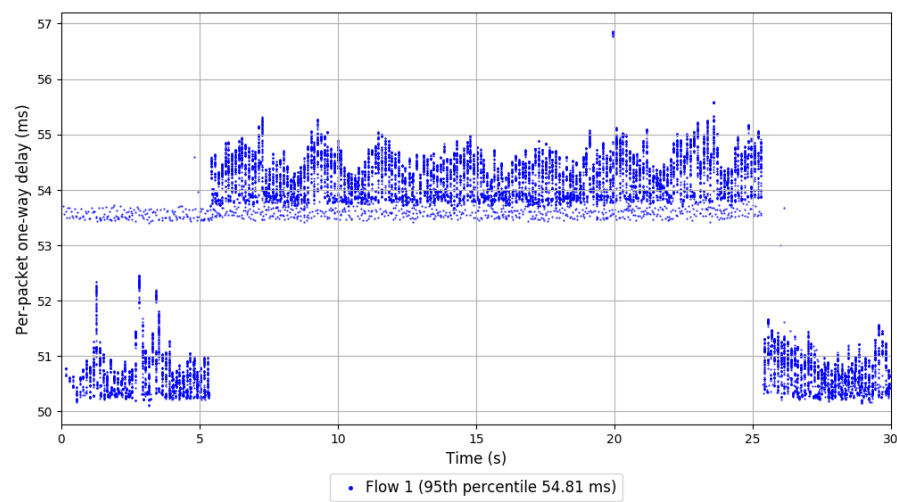
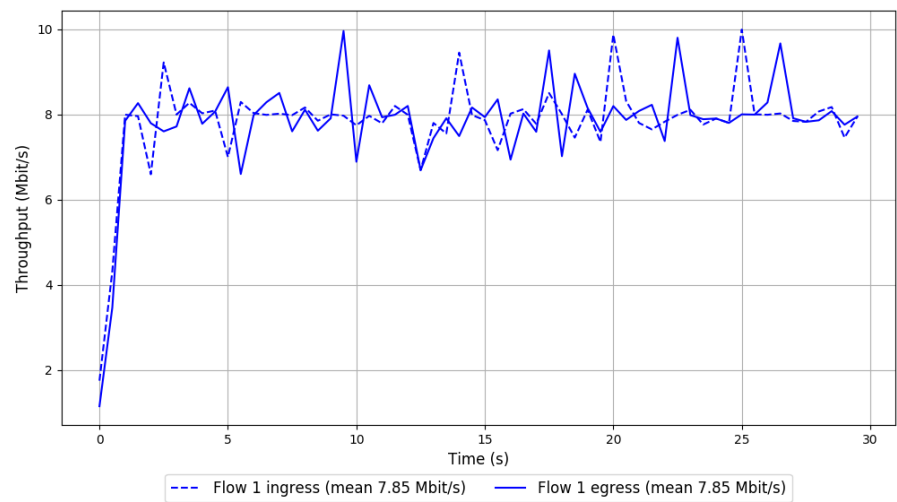
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 54.806 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-27 07:55:23

End at: 2018-03-27 07:55:53

Below is generated by plot.py at 2018-03-27 10:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.842 ms

Loss rate: 0.00%

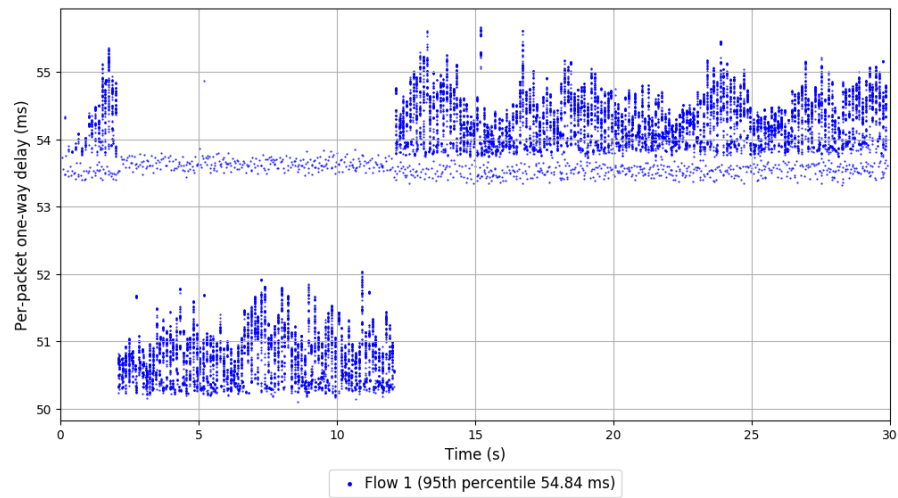
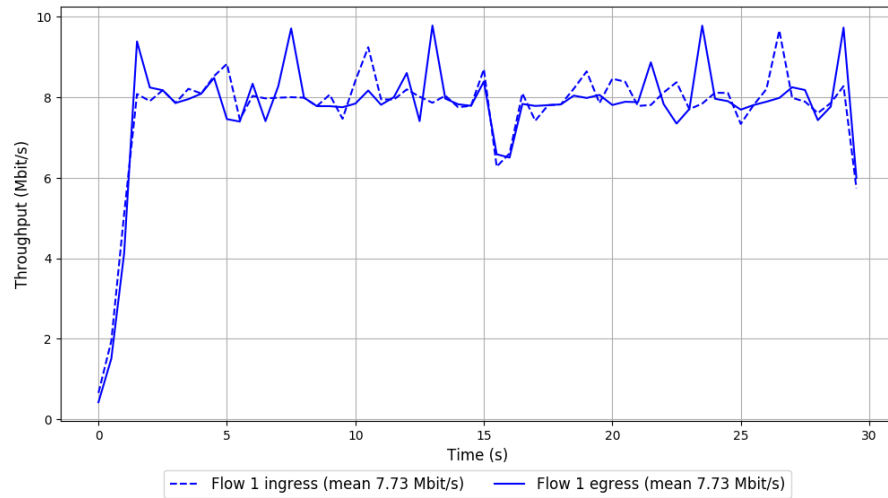
-- Flow 1:

Average throughput: 7.73 Mbit/s

95th percentile per-packet one-way delay: 54.842 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-27 08:09:57

End at: 2018-03-27 08:10:27

Below is generated by plot.py at 2018-03-27 10:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

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

Loss rate: 0.00%

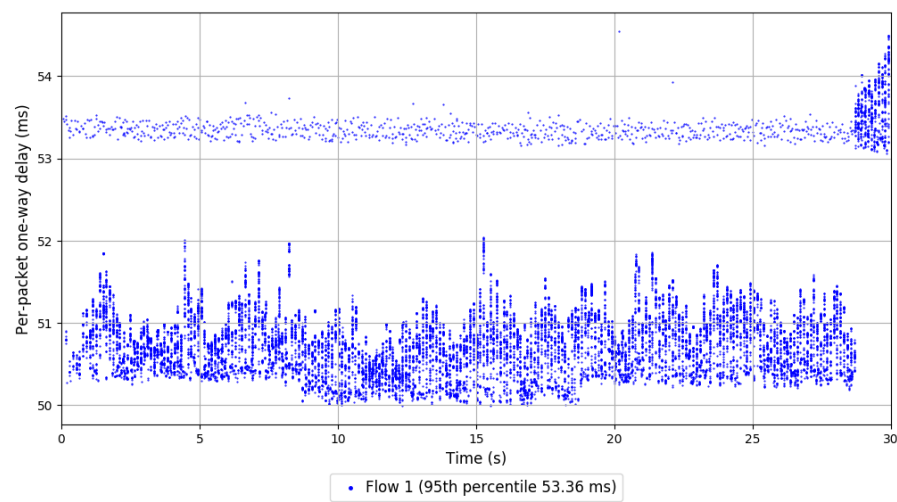
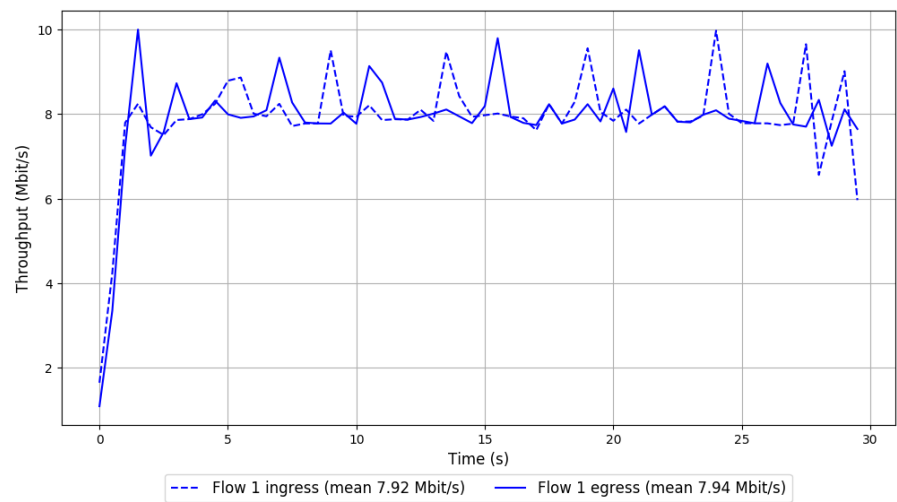
-- Flow 1:

Average throughput: 7.94 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

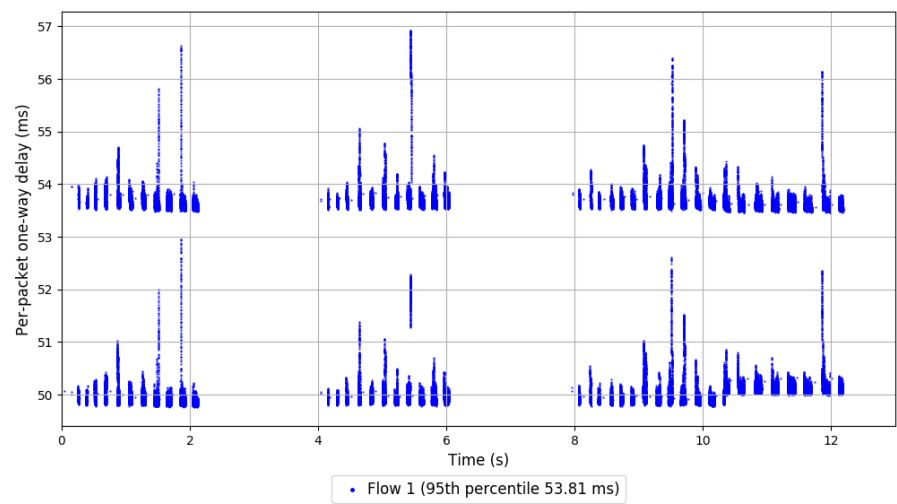
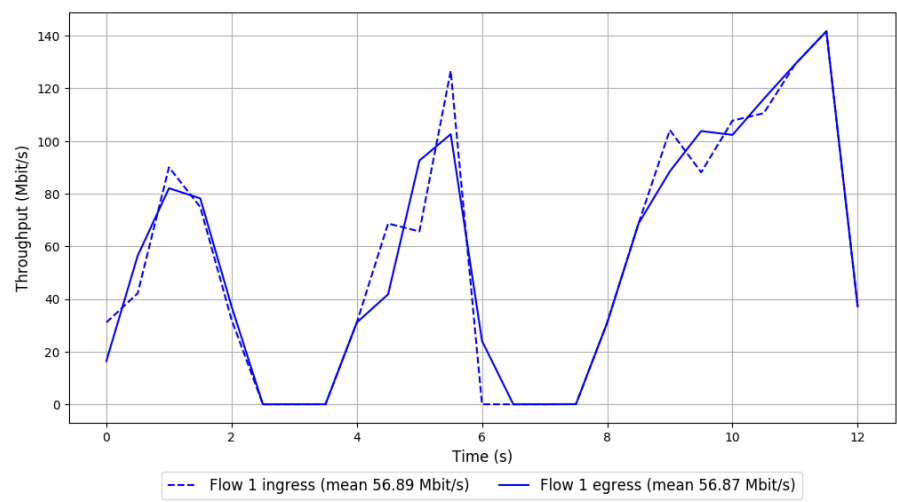


Run 1: Statistics of TaoVA-100x

Start at: 2018-03-27 06:04:05

End at: 2018-03-27 06:04:35

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

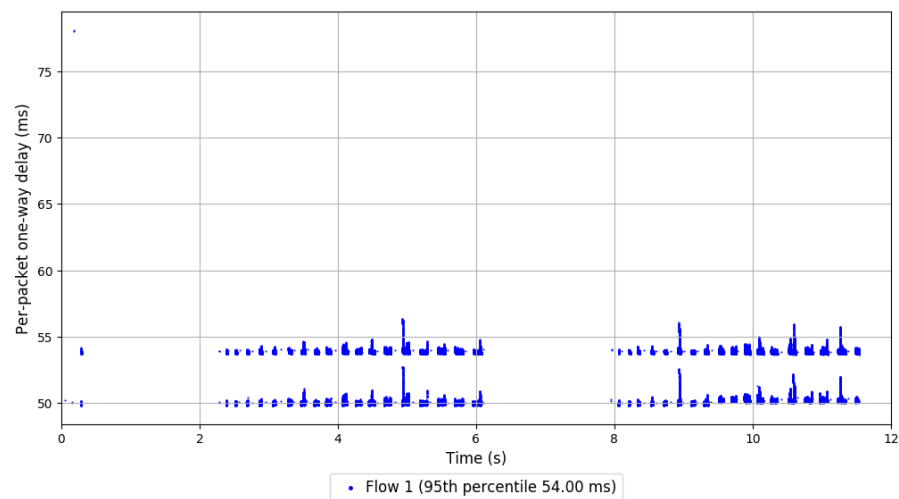
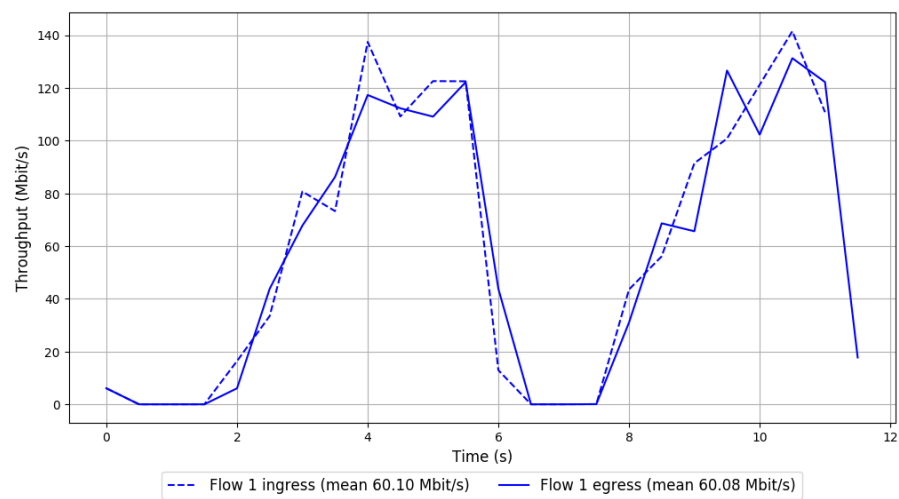


Run 2: Statistics of TaoVA-100x

Start at: 2018-03-27 06:18:36

End at: 2018-03-27 06:19:06

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-27 06:32:49

End at: 2018-03-27 06:33:19

Below is generated by plot.py at 2018-03-27 10:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.00%

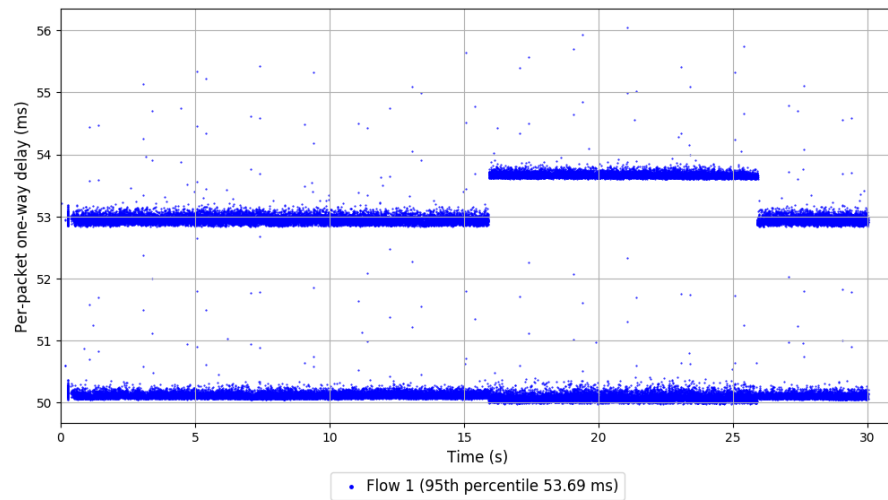
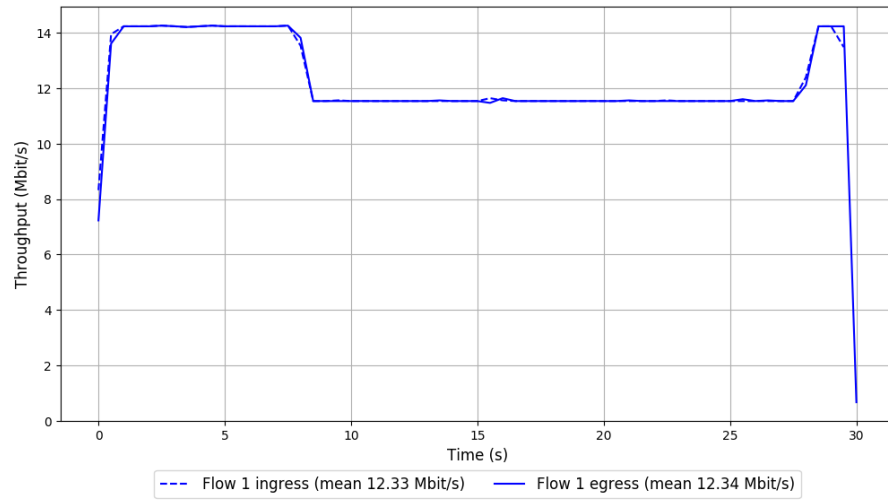
-- Flow 1:

Average throughput: 12.34 Mbit/s

95th percentile per-packet one-way delay: 53.685 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-27 06:47:28

End at: 2018-03-27 06:47:58

Below is generated by plot.py at 2018-03-27 10:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.63 Mbit/s

95th percentile per-packet one-way delay: 57.619 ms

Loss rate: 0.00%

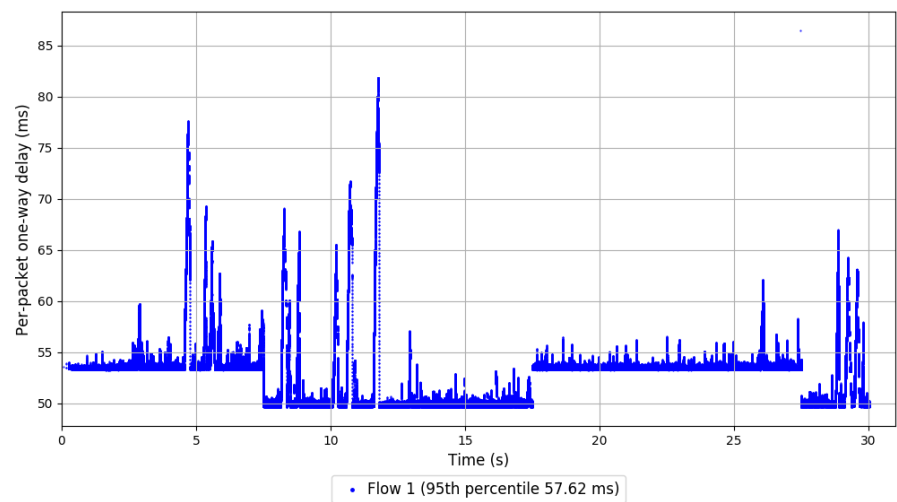
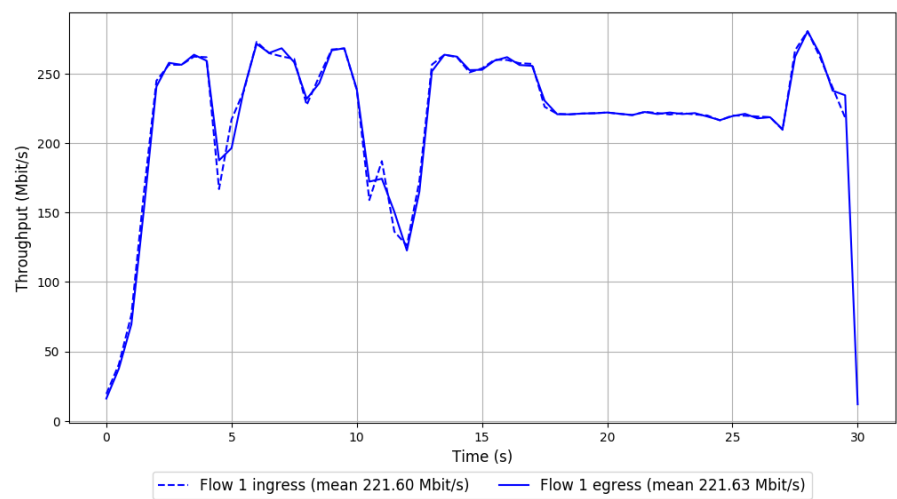
-- Flow 1:

Average throughput: 221.63 Mbit/s

95th percentile per-packet one-way delay: 57.619 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-27 07:01:56

End at: 2018-03-27 07:02:26

Below is generated by plot.py at 2018-03-27 10:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 53.087 ms

Loss rate: 0.01%

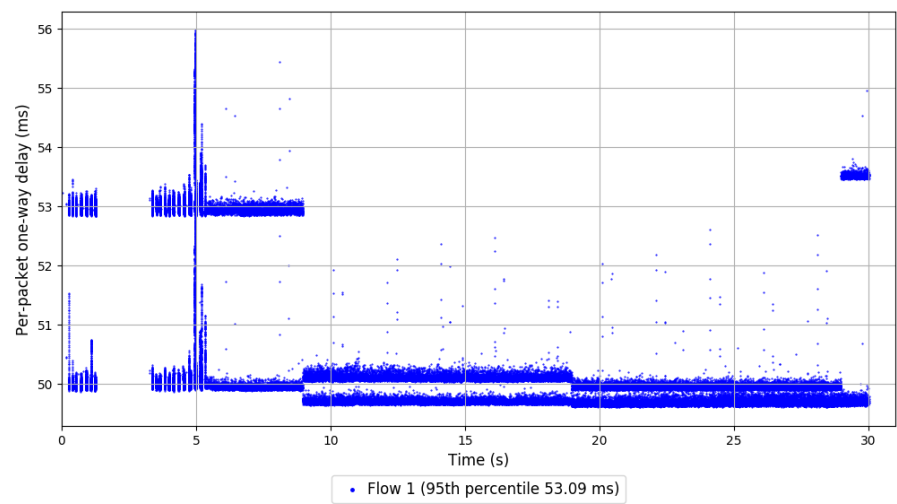
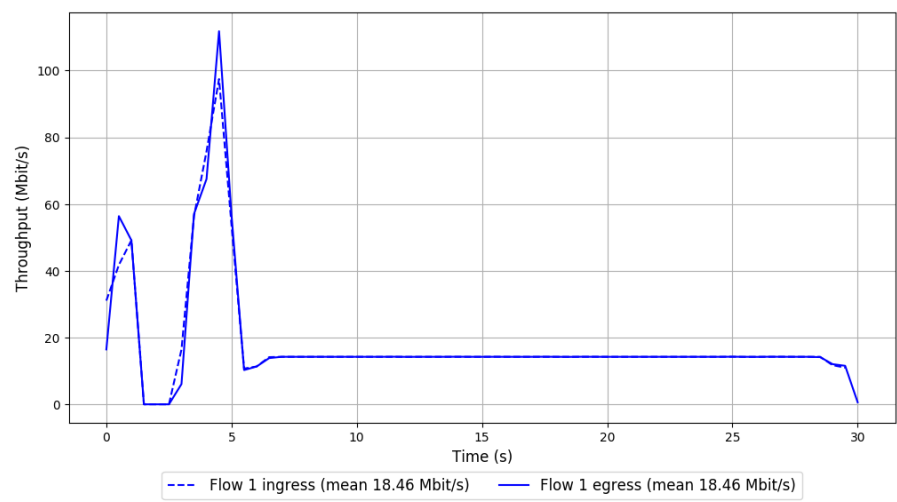
-- Flow 1:

Average throughput: 18.46 Mbit/s

95th percentile per-packet one-way delay: 53.087 ms

Loss rate: 0.01%

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

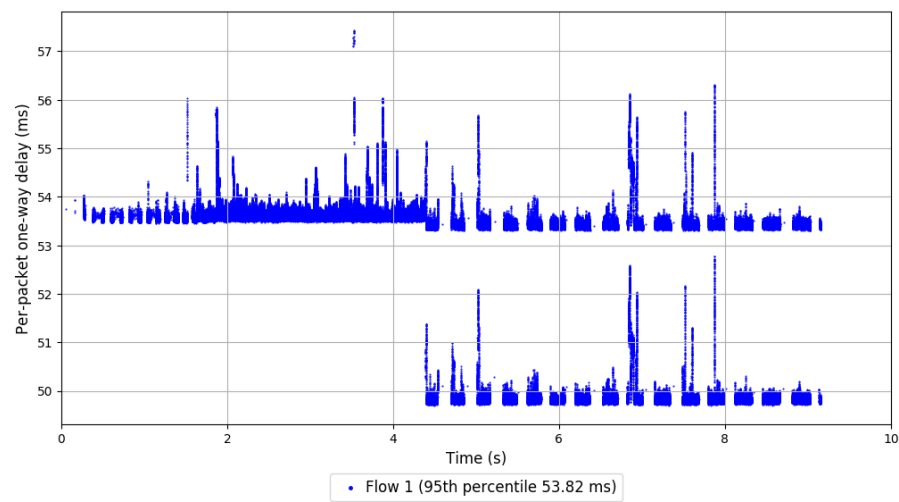
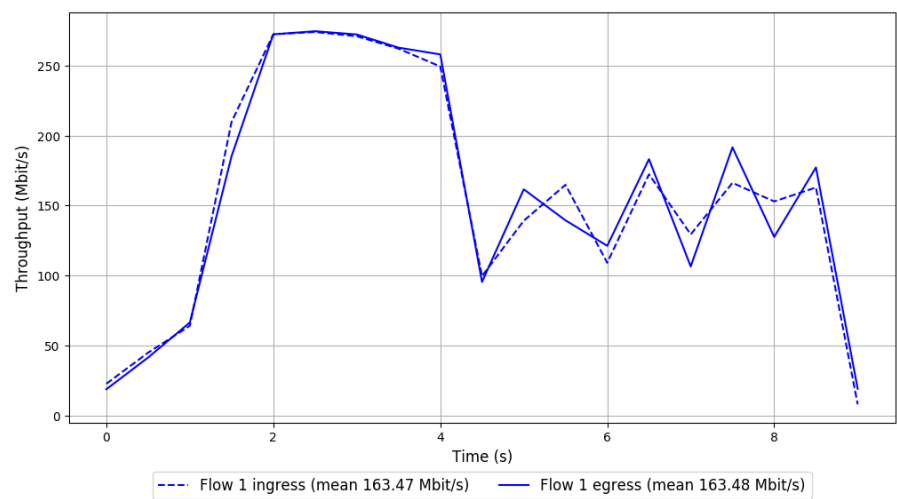


Run 6: Statistics of TaoVA-100x

Start at: 2018-03-27 07:16:11

End at: 2018-03-27 07:16:41

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

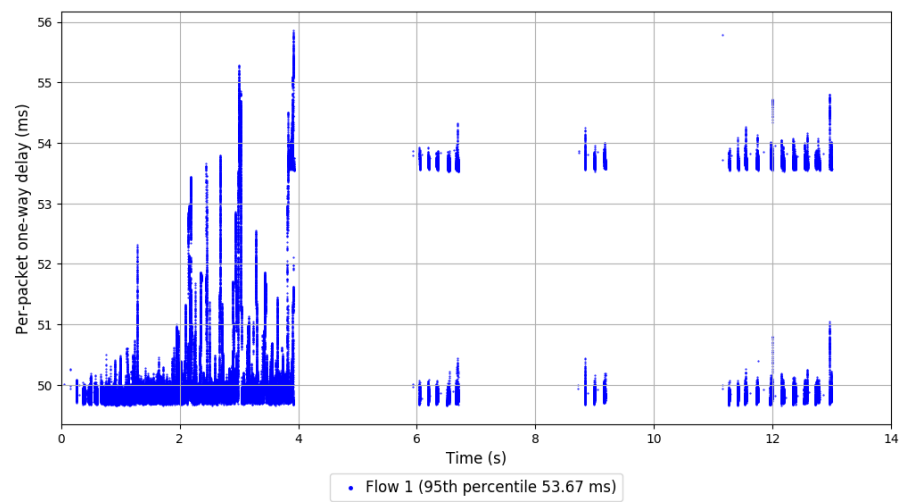
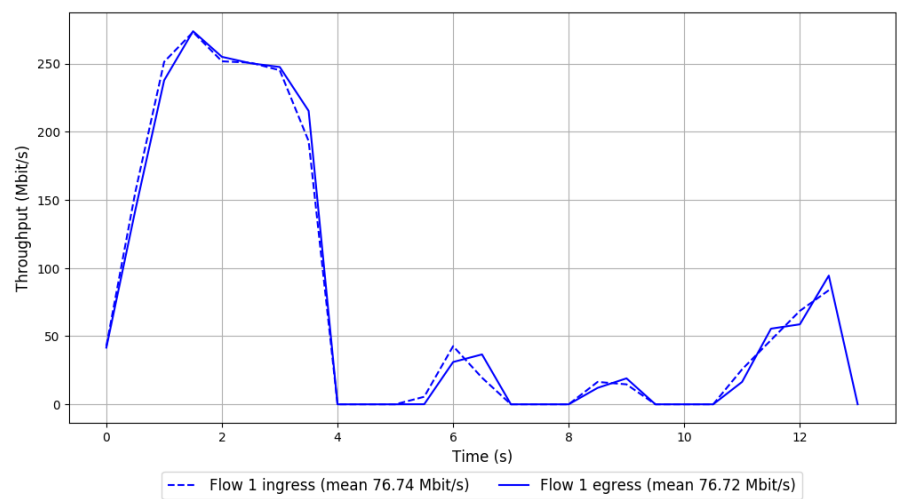


Run 7: Statistics of TaoVA-100x

Start at: 2018-03-27 07:30:51

End at: 2018-03-27 07:31:22

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-27 07:45:30

End at: 2018-03-27 07:46:00

Below is generated by plot.py at 2018-03-27 10:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.45 Mbit/s

95th percentile per-packet one-way delay: 53.371 ms

Loss rate: 0.00%

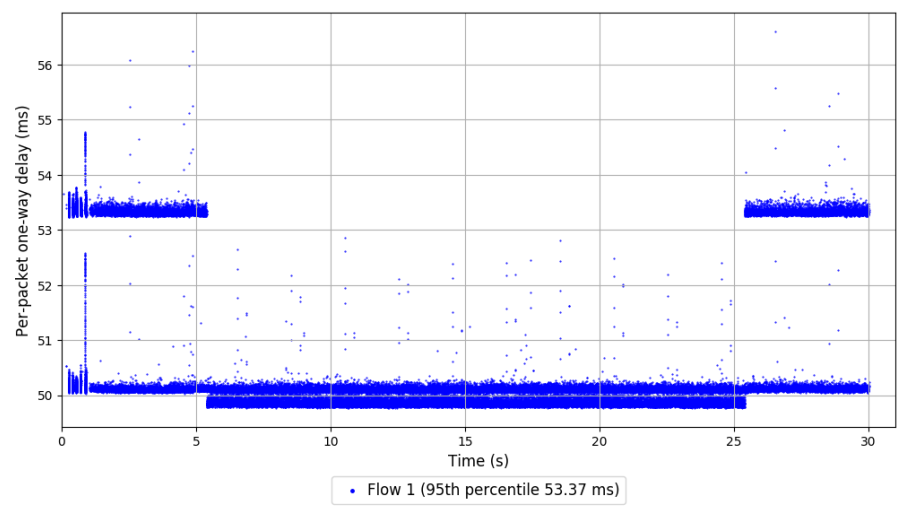
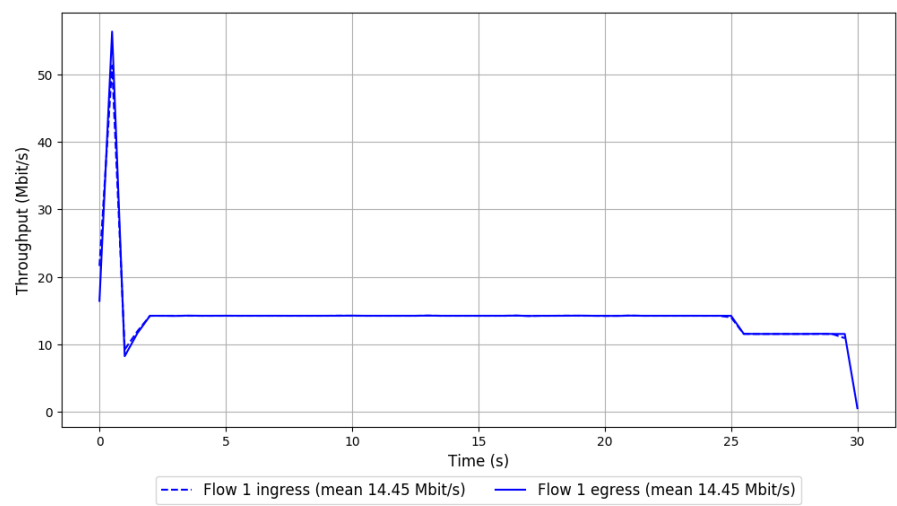
-- Flow 1:

Average throughput: 14.45 Mbit/s

95th percentile per-packet one-way delay: 53.371 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-27 07:59:51

End at: 2018-03-27 08:00:21

Below is generated by plot.py at 2018-03-27 10:48:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.42 Mbit/s

95th percentile per-packet one-way delay: 55.287 ms

Loss rate: 0.00%

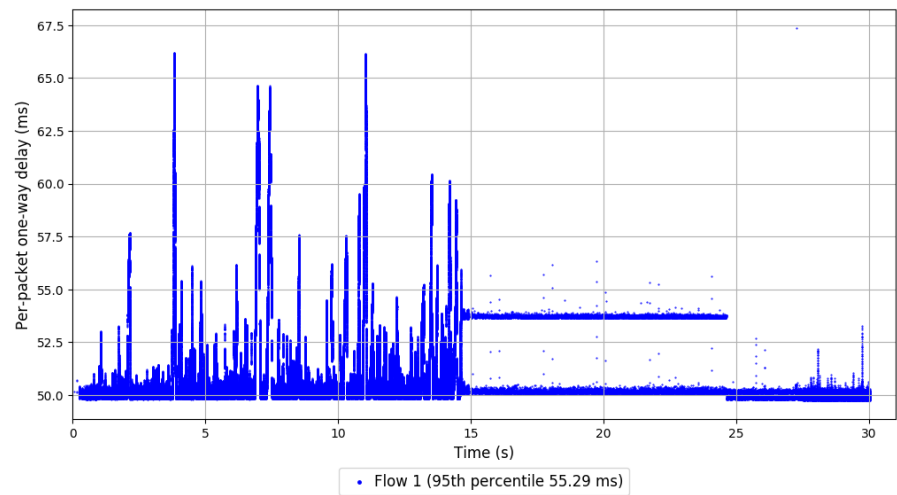
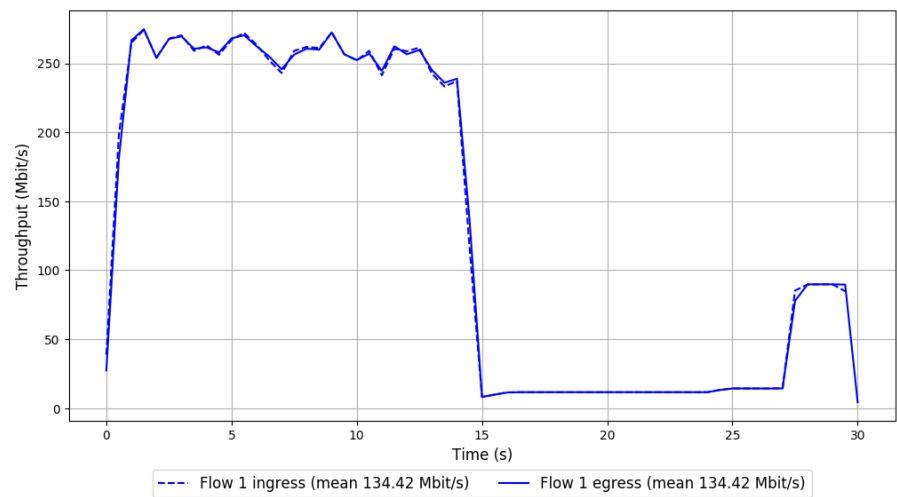
-- Flow 1:

Average throughput: 134.42 Mbit/s

95th percentile per-packet one-way delay: 55.287 ms

Loss rate: 0.00%

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

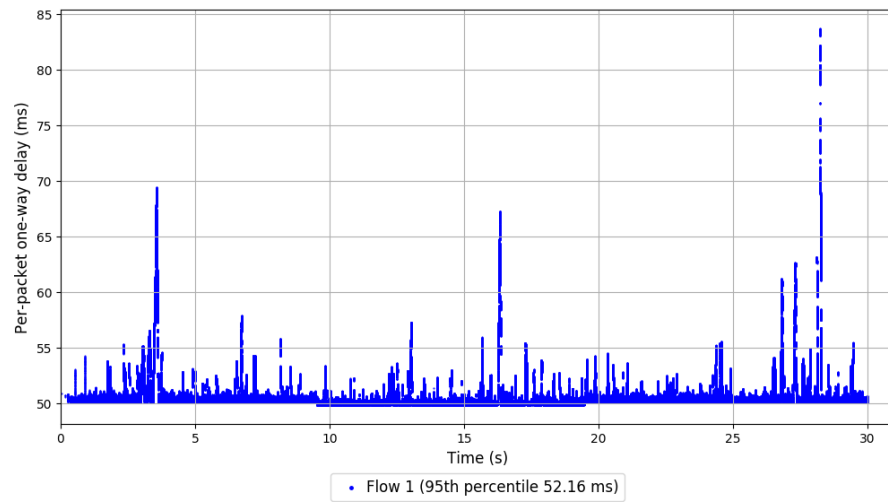
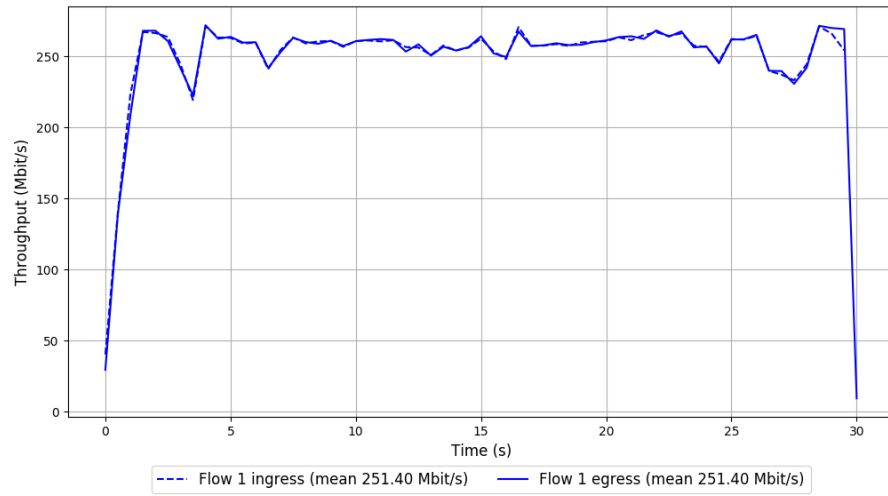


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-27 08:14:26
End at: 2018-03-27 08:14:56

# Below is generated by plot.py at 2018-03-27 10:50:17
# Datalink statistics
-- Total of 1 flow:
Average throughput: 251.40 Mbit/s
95th percentile per-packet one-way delay: 52.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.40 Mbit/s
95th percentile per-packet one-way delay: 52.161 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-27 06:05:30

End at: 2018-03-27 06:06:00

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 146.64 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.00%

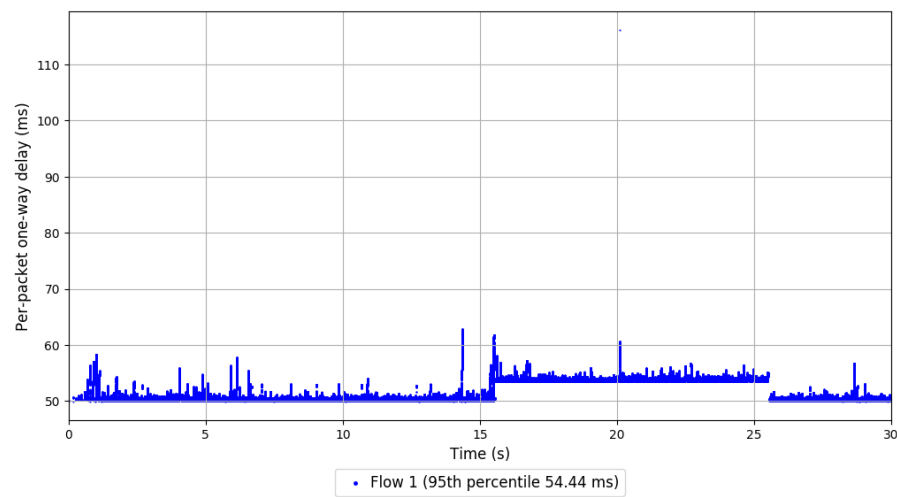
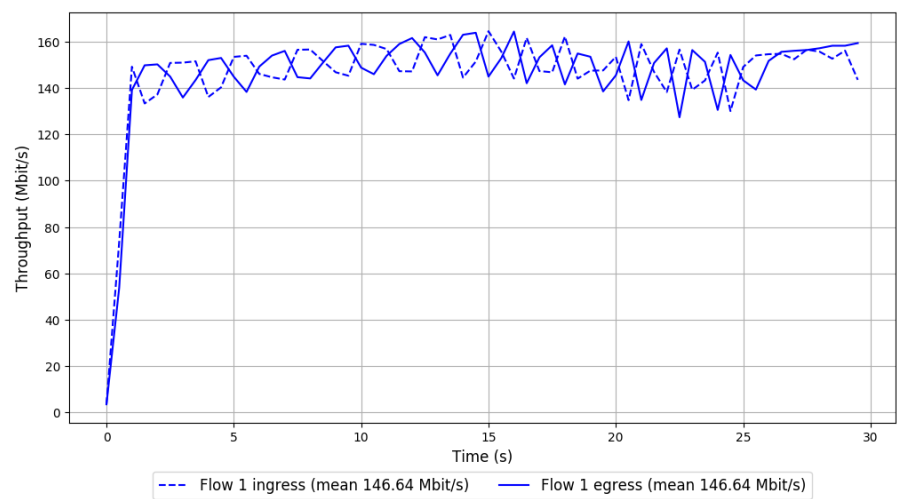
-- Flow 1:

Average throughput: 146.64 Mbit/s

95th percentile per-packet one-way delay: 54.439 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-27 06:20:00

End at: 2018-03-27 06:20:30

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.59 Mbit/s

95th percentile per-packet one-way delay: 61.626 ms

Loss rate: 0.05%

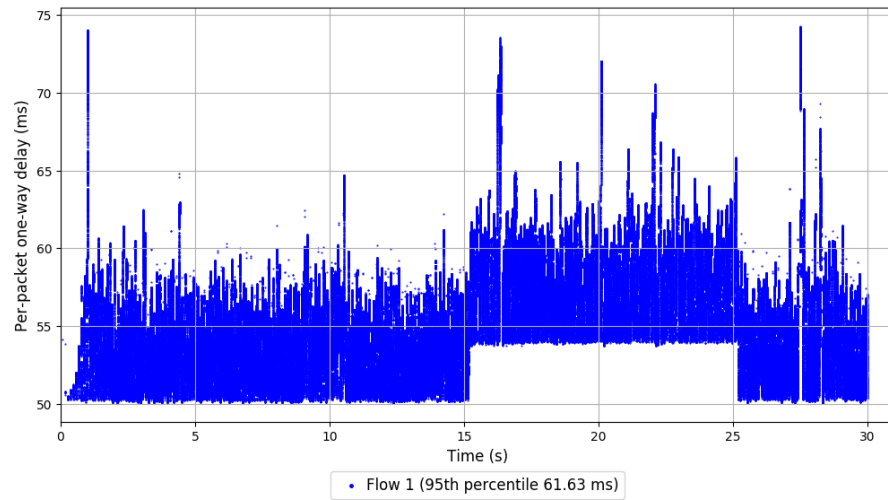
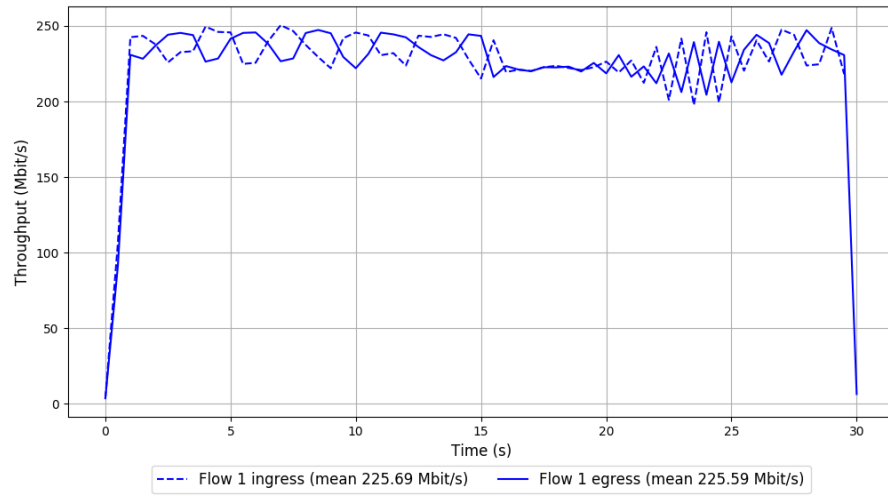
-- Flow 1:

Average throughput: 225.59 Mbit/s

95th percentile per-packet one-way delay: 61.626 ms

Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-27 06:34:13

End at: 2018-03-27 06:34:43

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.17 Mbit/s

95th percentile per-packet one-way delay: 61.438 ms

Loss rate: 0.02%

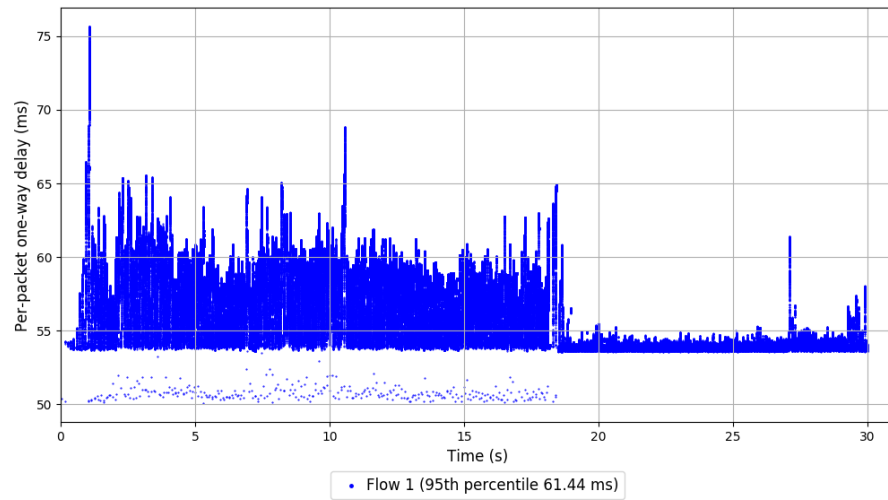
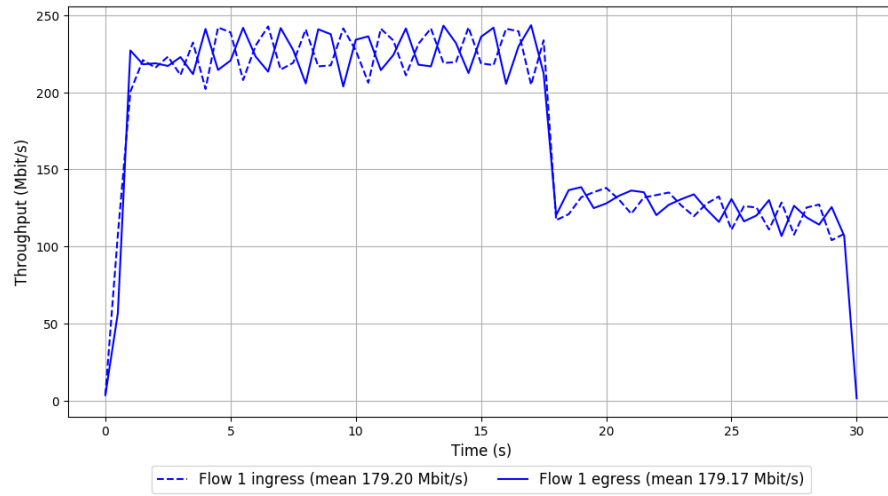
-- Flow 1:

Average throughput: 179.17 Mbit/s

95th percentile per-packet one-way delay: 61.438 ms

Loss rate: 0.02%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-27 06:49:09

End at: 2018-03-27 06:49:39

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.11 Mbit/s

95th percentile per-packet one-way delay: 61.226 ms

Loss rate: 0.00%

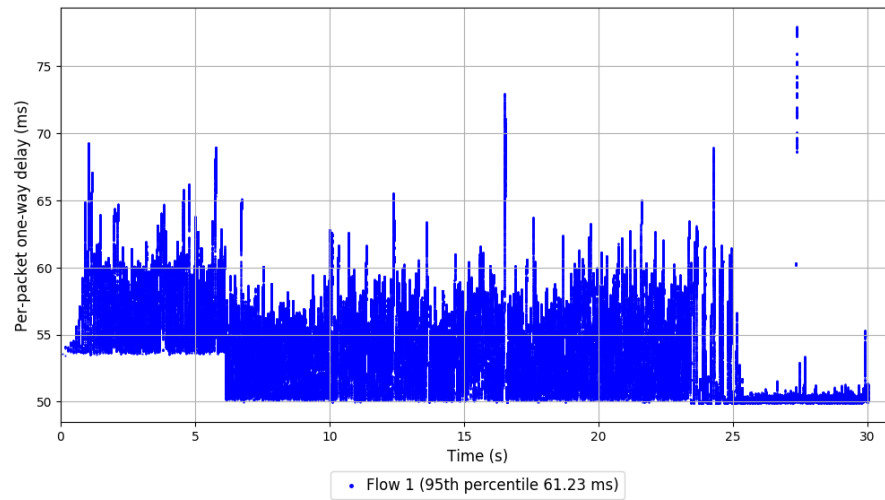
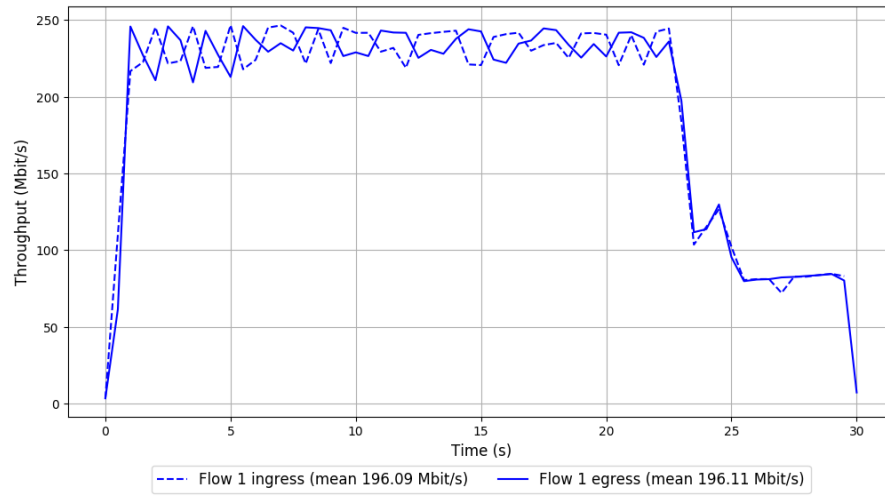
-- Flow 1:

Average throughput: 196.11 Mbit/s

95th percentile per-packet one-way delay: 61.226 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-27 07:03:21

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

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.90 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%

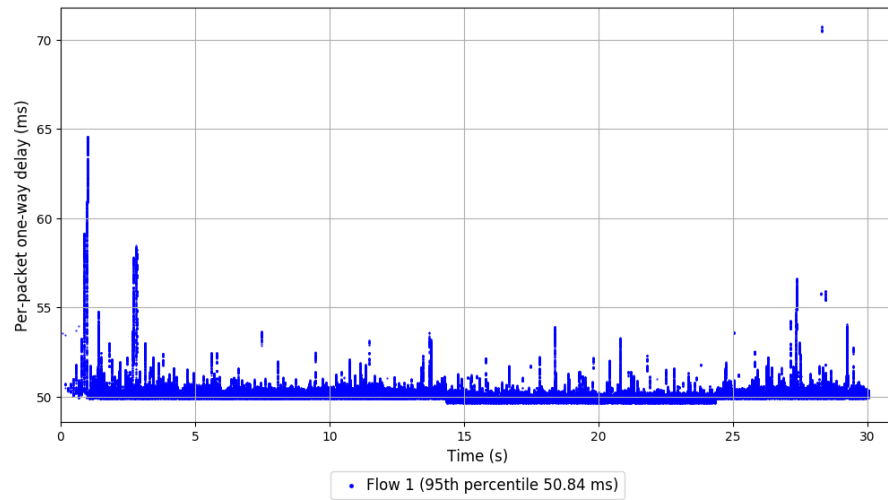
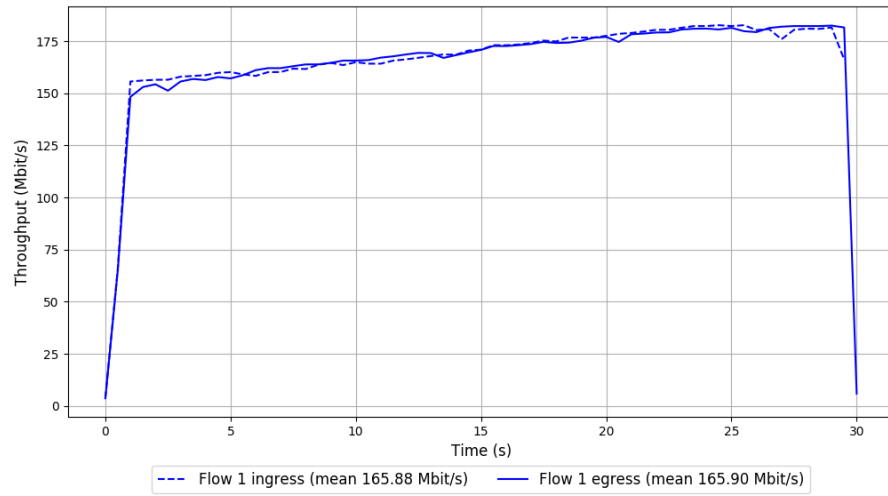
-- Flow 1:

Average throughput: 165.90 Mbit/s

95th percentile per-packet one-way delay: 50.837 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-27 07:17:37

End at: 2018-03-27 07:18:07

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.71 Mbit/s

95th percentile per-packet one-way delay: 57.892 ms

Loss rate: 0.00%

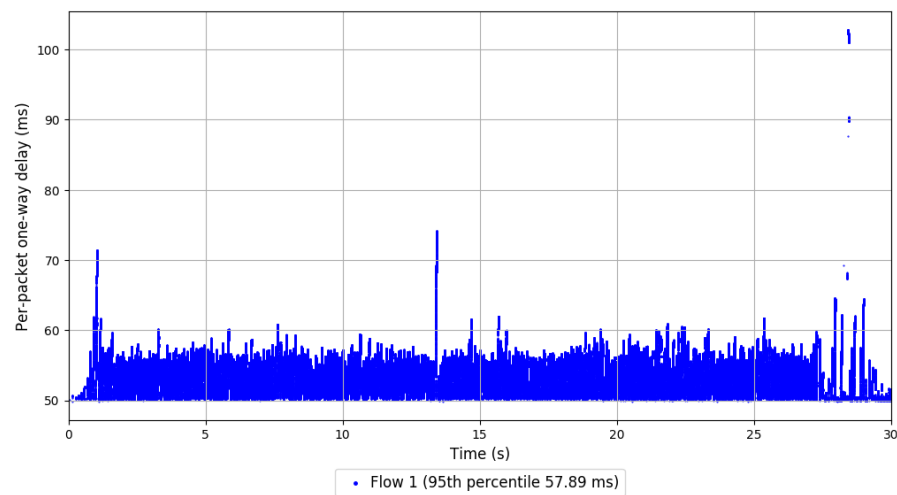
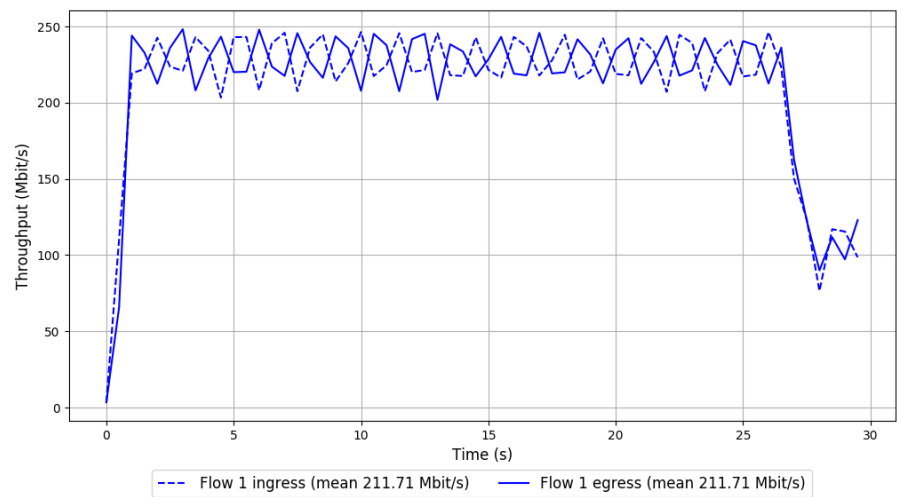
-- Flow 1:

Average throughput: 211.71 Mbit/s

95th percentile per-packet one-way delay: 57.892 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 07:32:18

End at: 2018-03-27 07:32:48

Below is generated by plot.py at 2018-03-27 10:50:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.00%

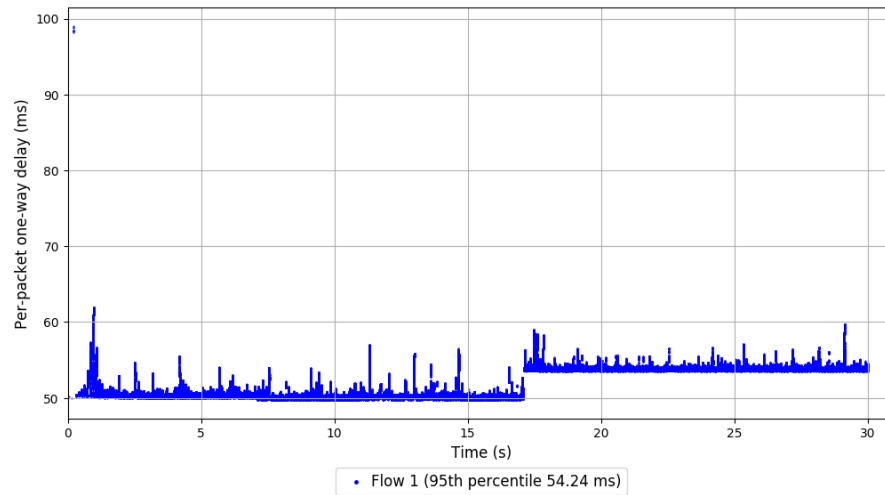
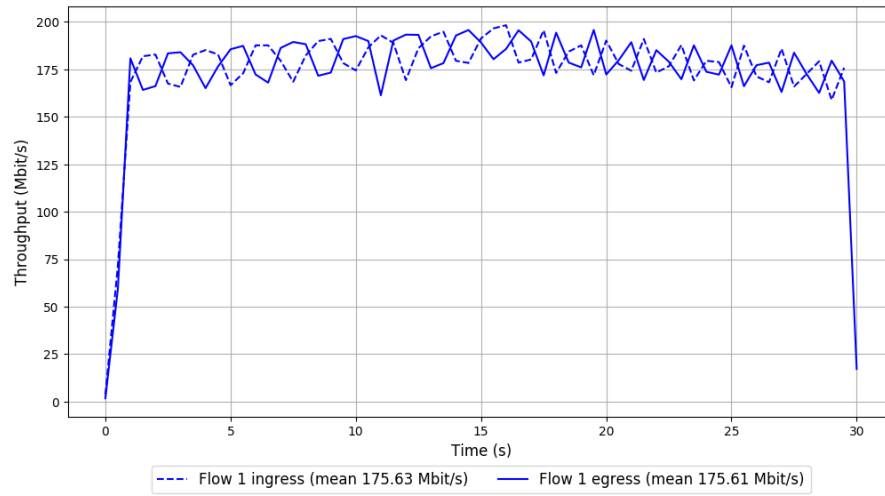
-- Flow 1:

Average throughput: 175.61 Mbit/s

95th percentile per-packet one-way delay: 54.240 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 07:46:55

End at: 2018-03-27 07:47:25

Below is generated by plot.py at 2018-03-27 10:50:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.79 Mbit/s

95th percentile per-packet one-way delay: 60.998 ms

Loss rate: 0.03%

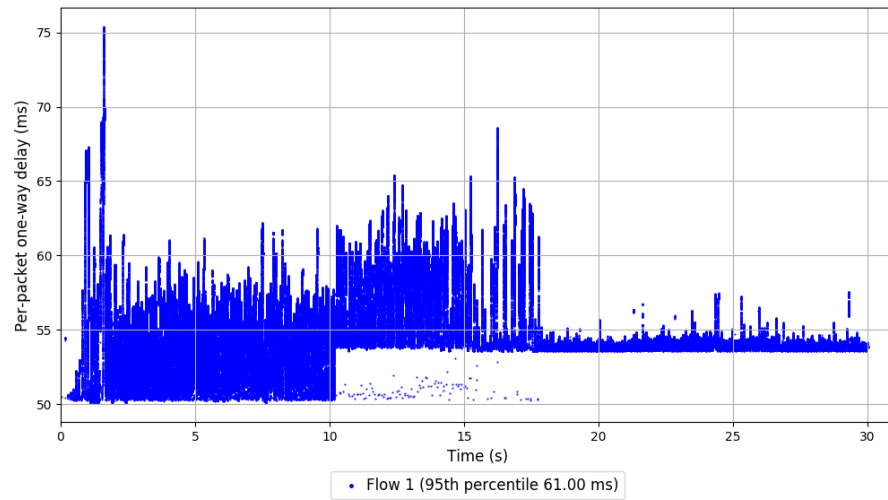
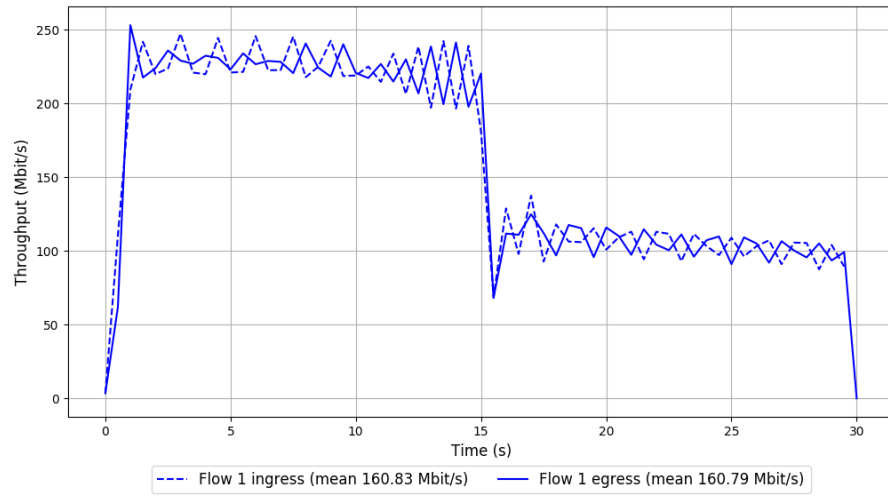
-- Flow 1:

Average throughput: 160.79 Mbit/s

95th percentile per-packet one-way delay: 60.998 ms

Loss rate: 0.03%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 08:01:25

End at: 2018-03-27 08:01:55

Below is generated by plot.py at 2018-03-27 10:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.47 Mbit/s

95th percentile per-packet one-way delay: 63.578 ms

Loss rate: 0.00%

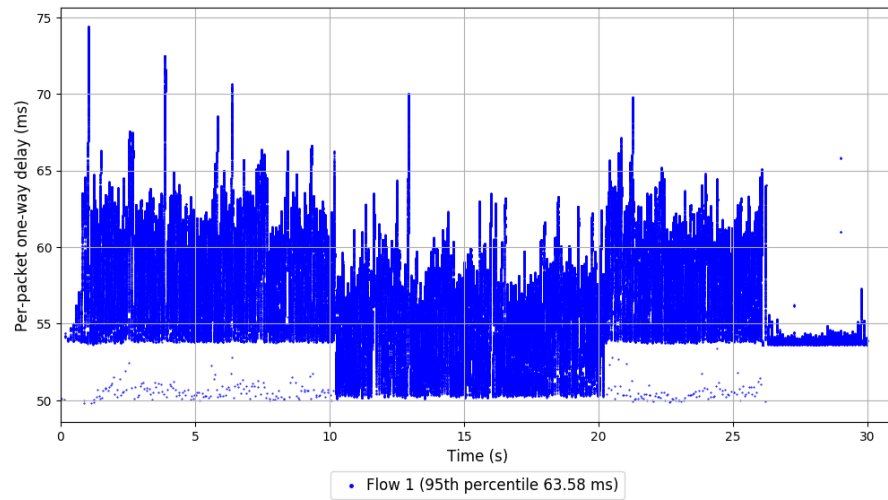
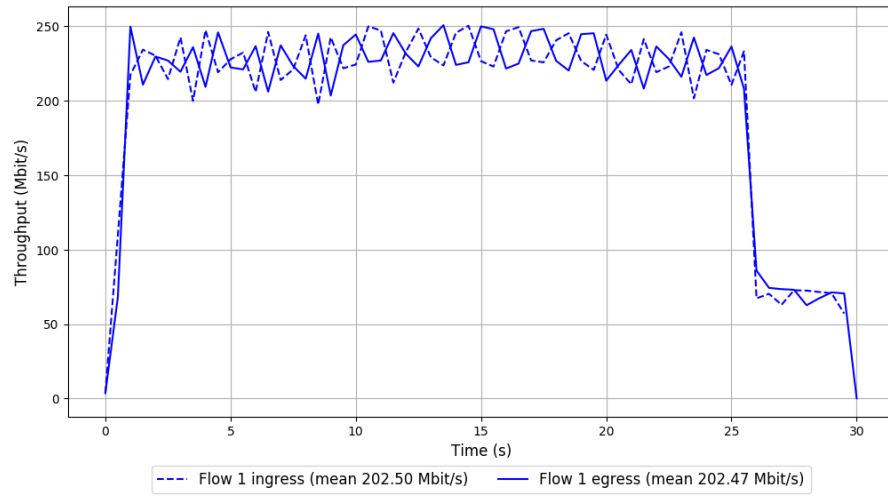
-- Flow 1:

Average throughput: 202.47 Mbit/s

95th percentile per-packet one-way delay: 63.578 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 08:16:11

End at: 2018-03-27 08:16:41

Below is generated by plot.py at 2018-03-27 10:52:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.00%

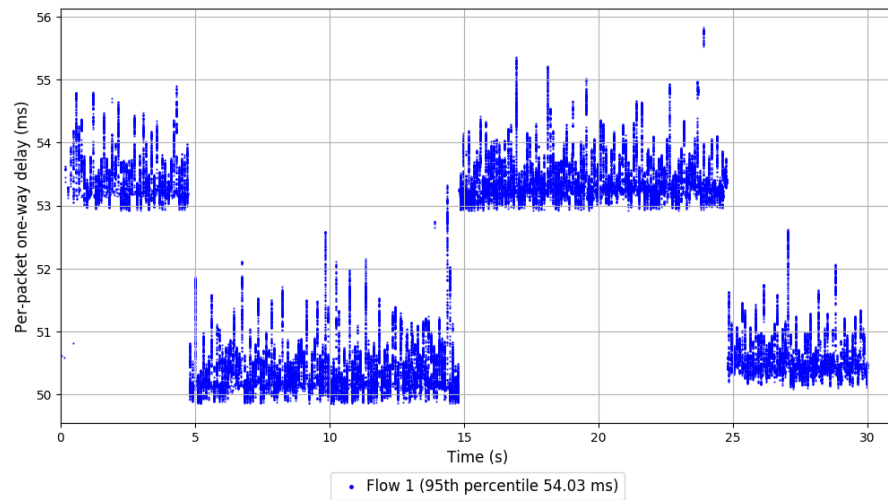
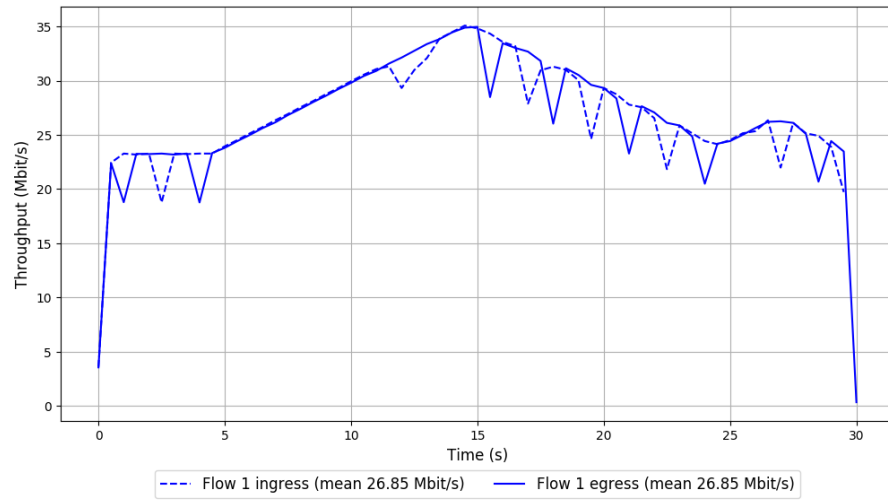
-- Flow 1:

Average throughput: 26.85 Mbit/s

95th percentile per-packet one-way delay: 54.030 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-27 06:02:21

End at: 2018-03-27 06:02:51

Below is generated by plot.py at 2018-03-27 10:52:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 79.255 ms

Loss rate: 0.17%

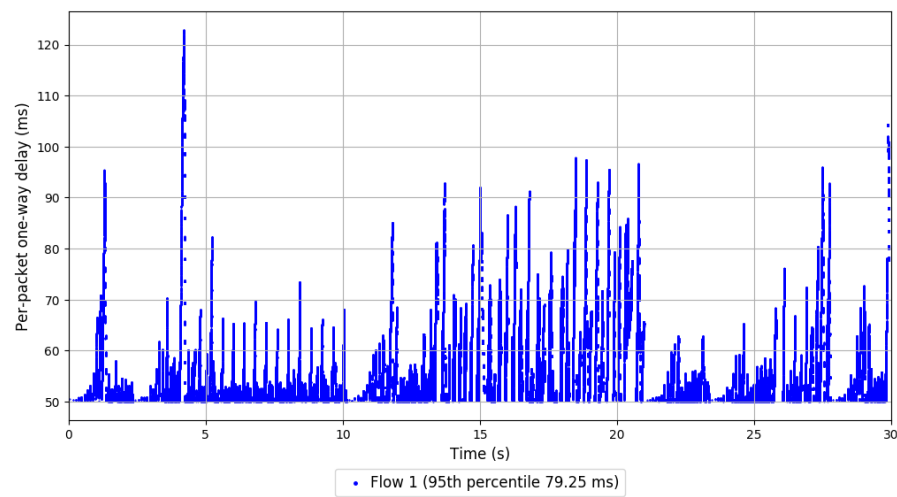
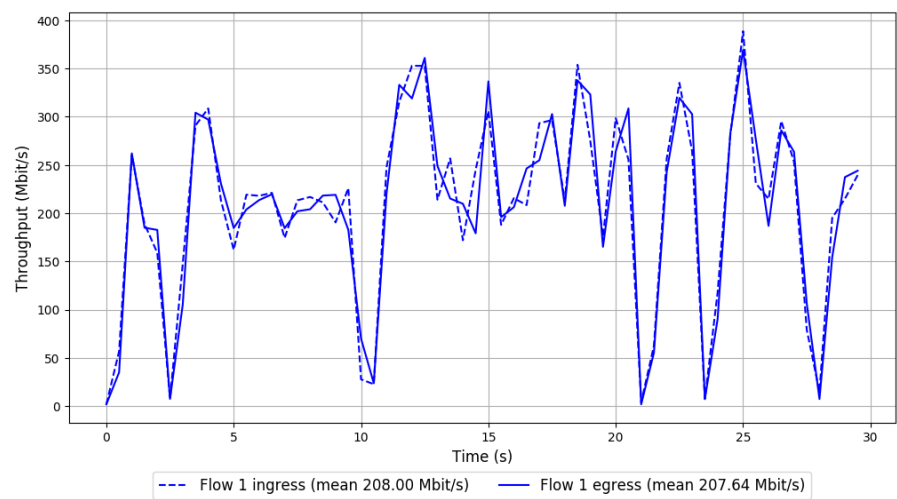
-- Flow 1:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 79.255 ms

Loss rate: 0.17%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-03-27 06:16:51

End at: 2018-03-27 06:17:21

Below is generated by plot.py at 2018-03-27 10:53:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.84 Mbit/s

95th percentile per-packet one-way delay: 159.900 ms

Loss rate: 0.20%

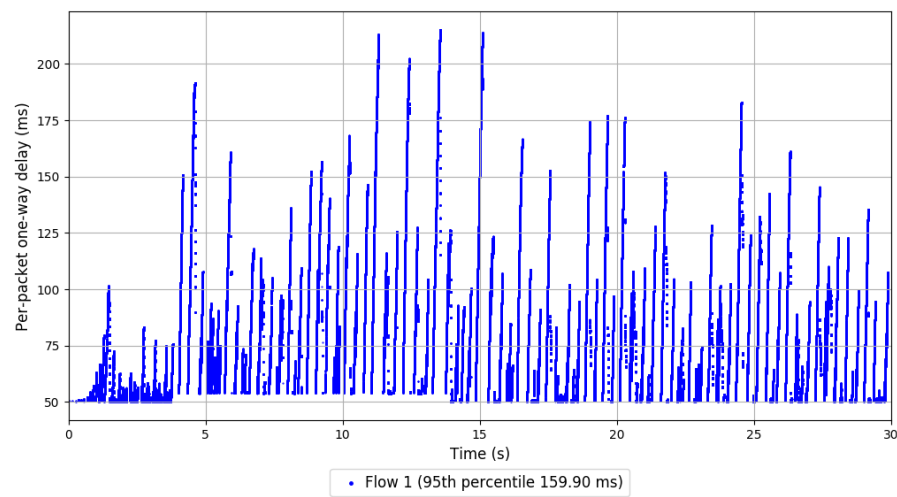
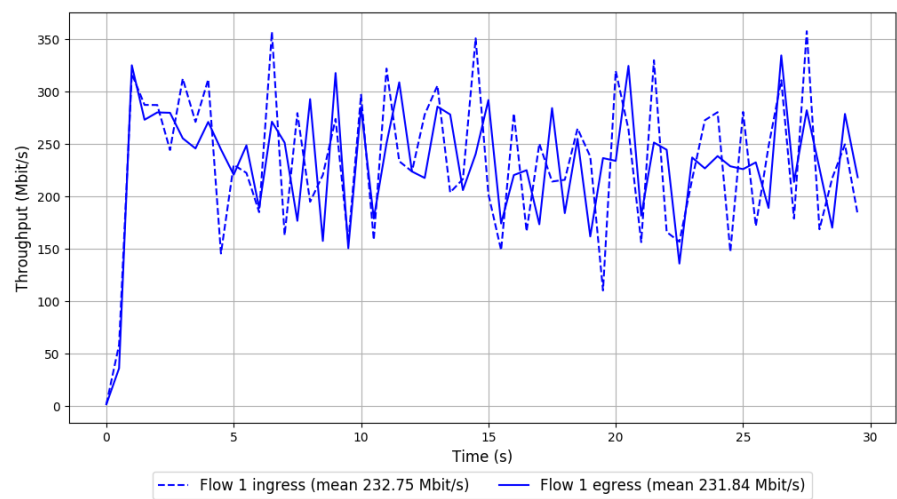
-- Flow 1:

Average throughput: 231.84 Mbit/s

95th percentile per-packet one-way delay: 159.900 ms

Loss rate: 0.20%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-27 06:31:02

End at: 2018-03-27 06:31:32

Below is generated by plot.py at 2018-03-27 10:54:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.48 Mbit/s

95th percentile per-packet one-way delay: 159.772 ms

Loss rate: 0.59%

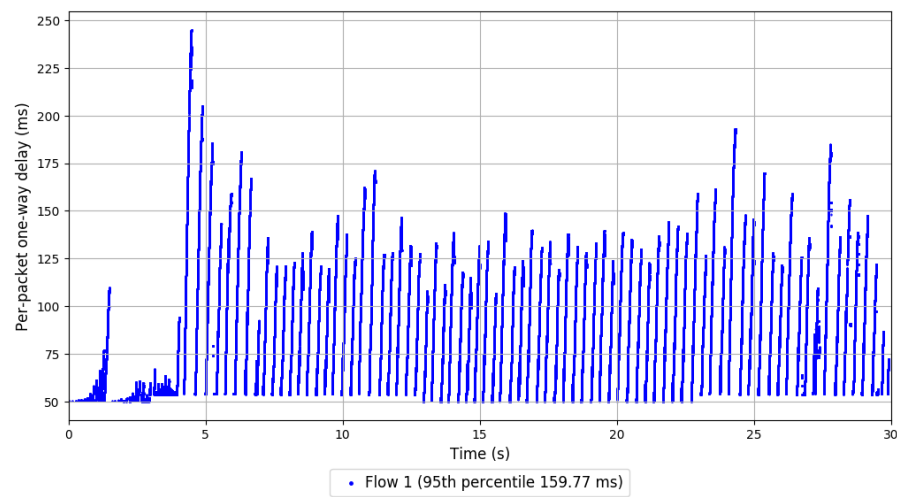
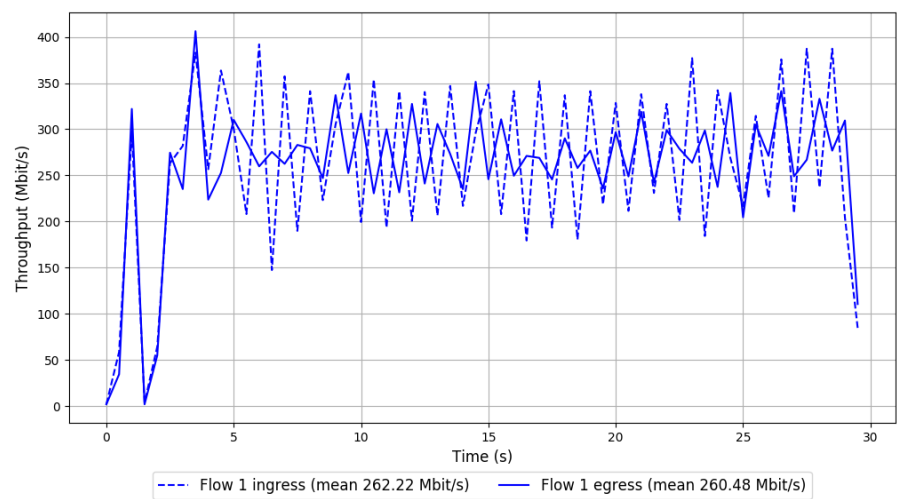
-- Flow 1:

Average throughput: 260.48 Mbit/s

95th percentile per-packet one-way delay: 159.772 ms

Loss rate: 0.59%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-27 06:45:37

End at: 2018-03-27 06:46:08

Below is generated by plot.py at 2018-03-27 10:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.72 Mbit/s

95th percentile per-packet one-way delay: 223.212 ms

Loss rate: 2.21%

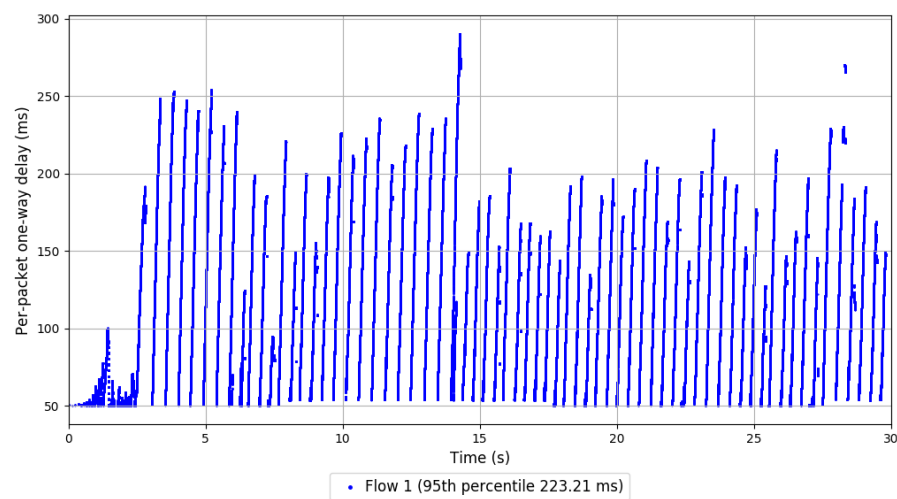
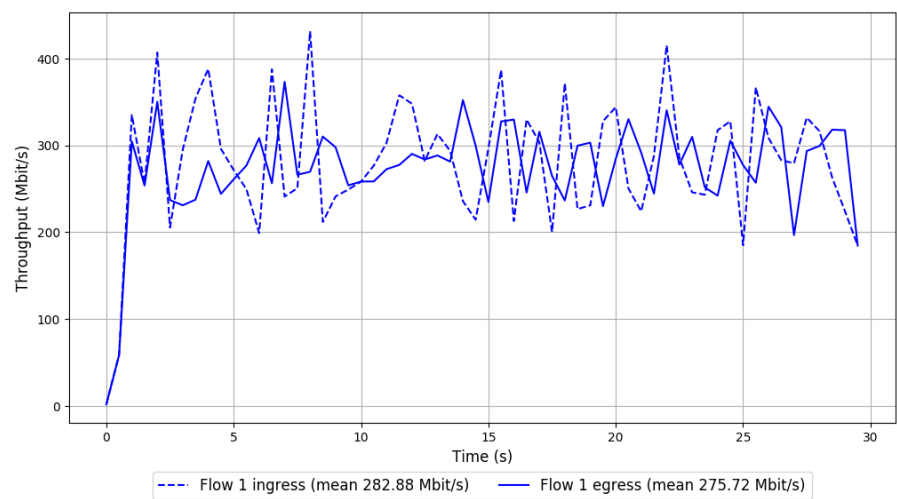
-- Flow 1:

Average throughput: 275.72 Mbit/s

95th percentile per-packet one-way delay: 223.212 ms

Loss rate: 2.21%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-27 07:00:10

End at: 2018-03-27 07:00:40

Below is generated by plot.py at 2018-03-27 10:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.00 Mbit/s

95th percentile per-packet one-way delay: 80.469 ms

Loss rate: 0.00%

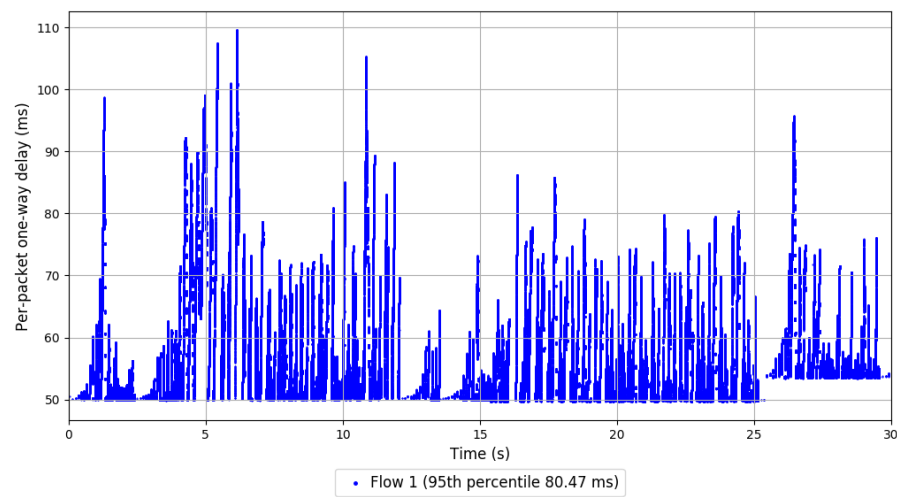
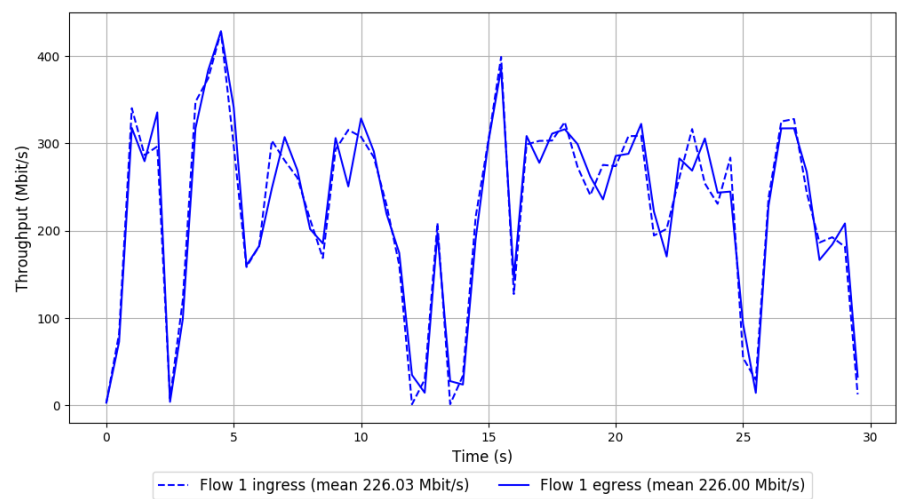
-- Flow 1:

Average throughput: 226.00 Mbit/s

95th percentile per-packet one-way delay: 80.469 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-27 07:14:23

End at: 2018-03-27 07:14:53

Below is generated by plot.py at 2018-03-27 10:55:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.60 Mbit/s

95th percentile per-packet one-way delay: 104.651 ms

Loss rate: 0.64%

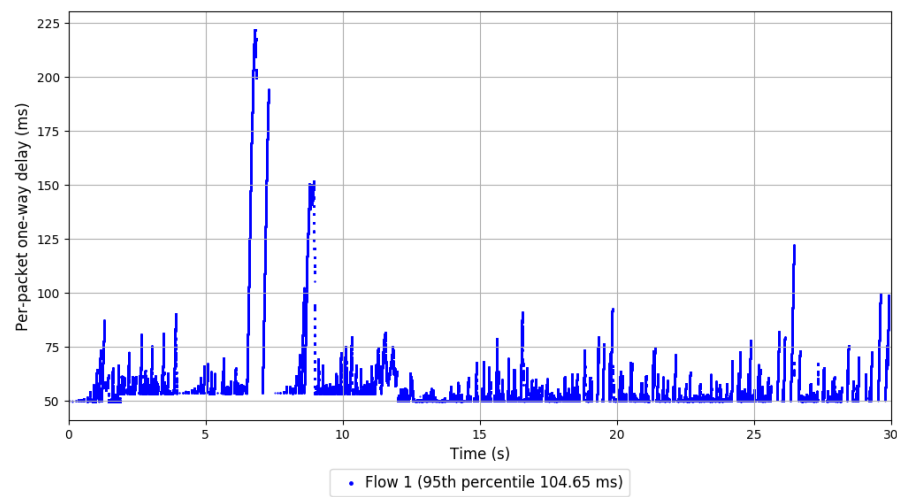
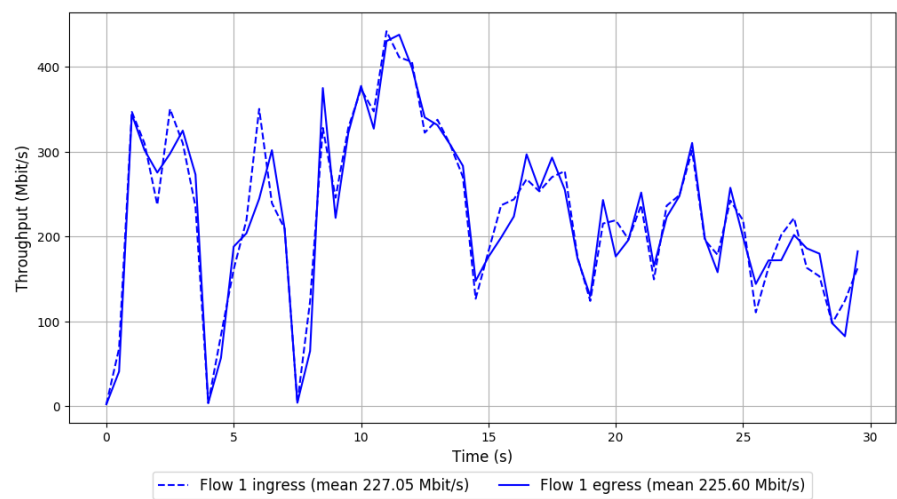
-- Flow 1:

Average throughput: 225.60 Mbit/s

95th percentile per-packet one-way delay: 104.651 ms

Loss rate: 0.64%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-27 07:29:02

End at: 2018-03-27 07:29:32

Below is generated by plot.py at 2018-03-27 10:56:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.66 Mbit/s

95th percentile per-packet one-way delay: 90.275 ms

Loss rate: 0.22%

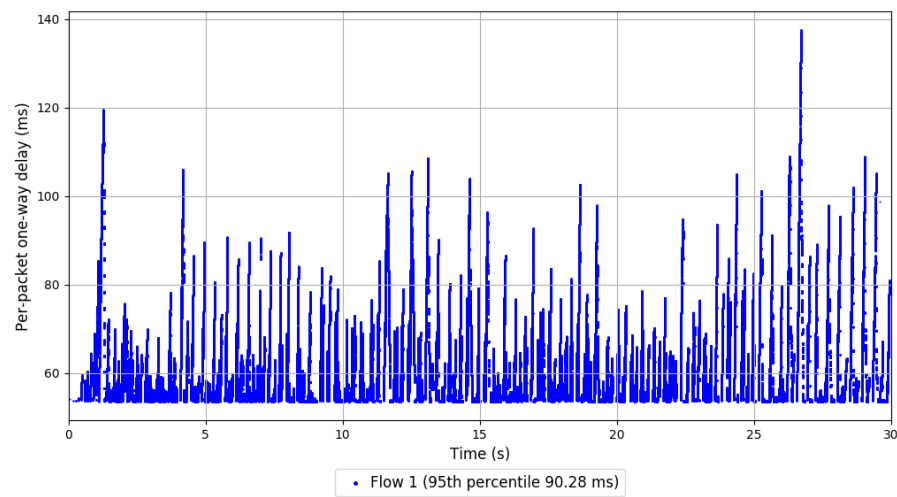
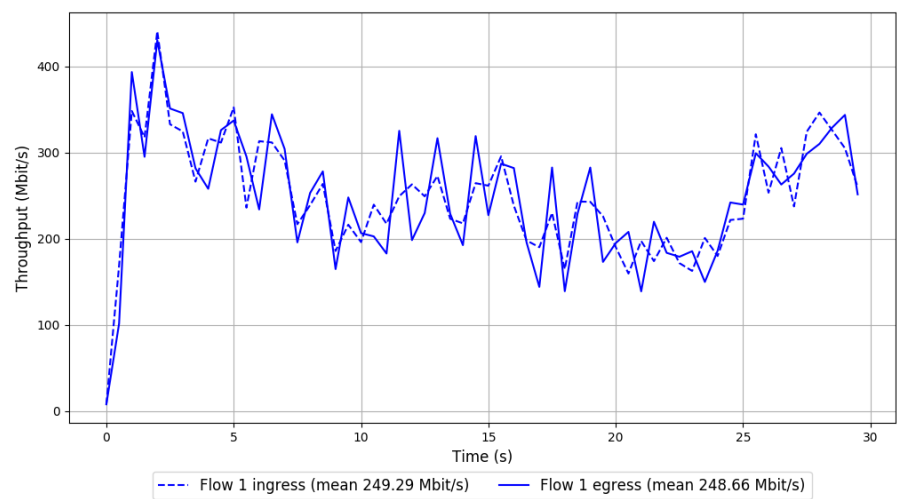
-- Flow 1:

Average throughput: 248.66 Mbit/s

95th percentile per-packet one-way delay: 90.275 ms

Loss rate: 0.22%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-27 07:43:40

End at: 2018-03-27 07:44:10

Below is generated by plot.py at 2018-03-27 10:57:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.54 Mbit/s

95th percentile per-packet one-way delay: 86.841 ms

Loss rate: 0.00%

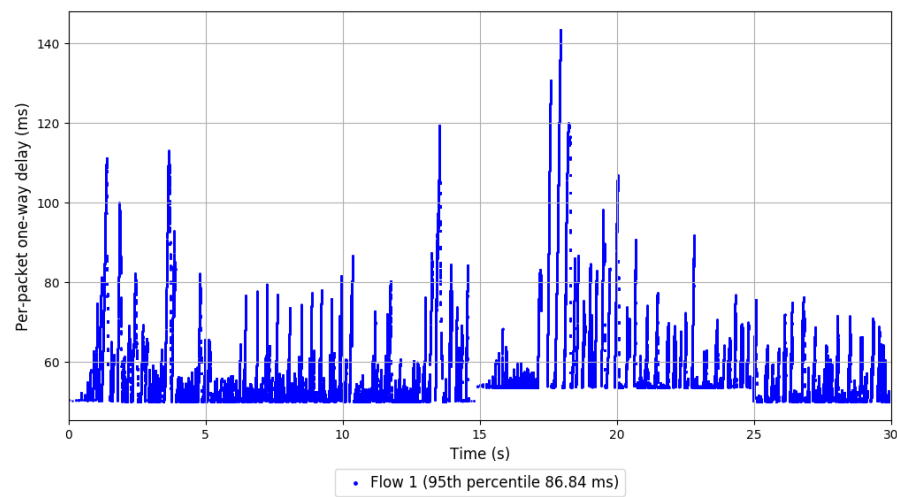
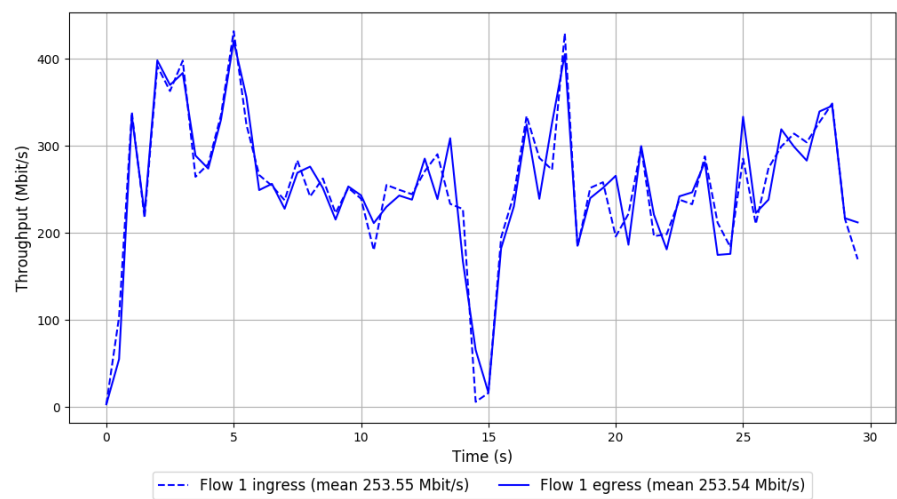
-- Flow 1:

Average throughput: 253.54 Mbit/s

95th percentile per-packet one-way delay: 86.841 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-03-27 07:58:03

End at: 2018-03-27 07:58:33

Below is generated by plot.py at 2018-03-27 10:57:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.88 Mbit/s

95th percentile per-packet one-way delay: 112.668 ms

Loss rate: 0.00%

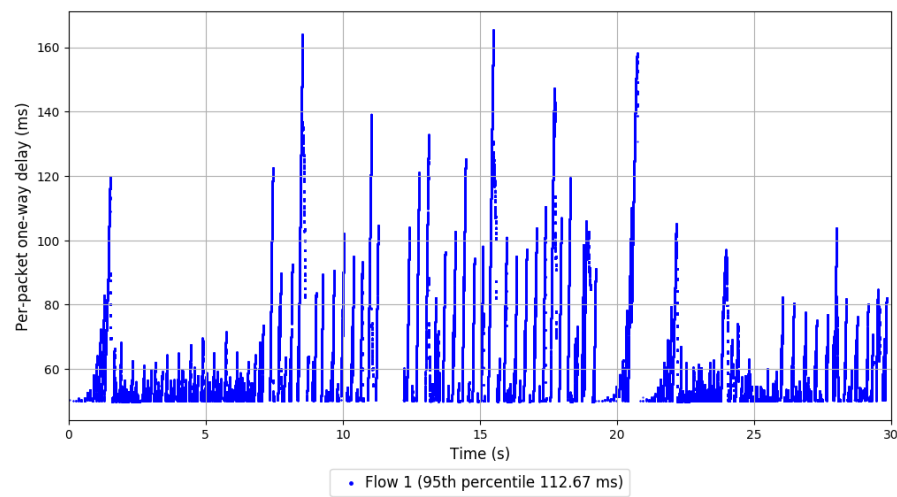
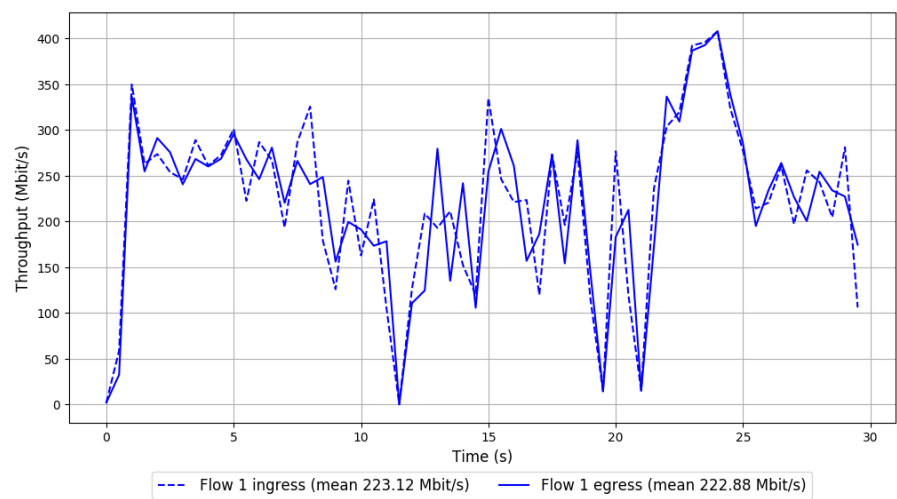
-- Flow 1:

Average throughput: 222.88 Mbit/s

95th percentile per-packet one-way delay: 112.668 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-27 08:12:38

End at: 2018-03-27 08:13:08

Below is generated by plot.py at 2018-03-27 10:59:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.44 Mbit/s

95th percentile per-packet one-way delay: 94.834 ms

Loss rate: 1.94%

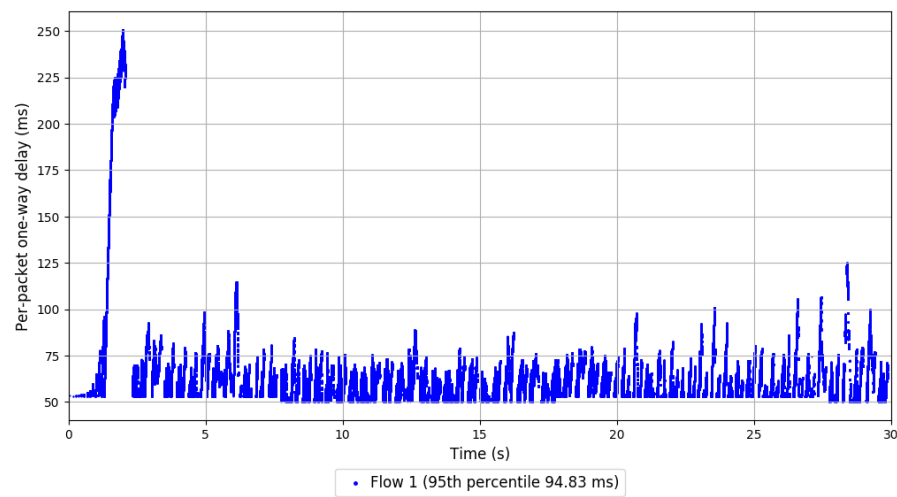
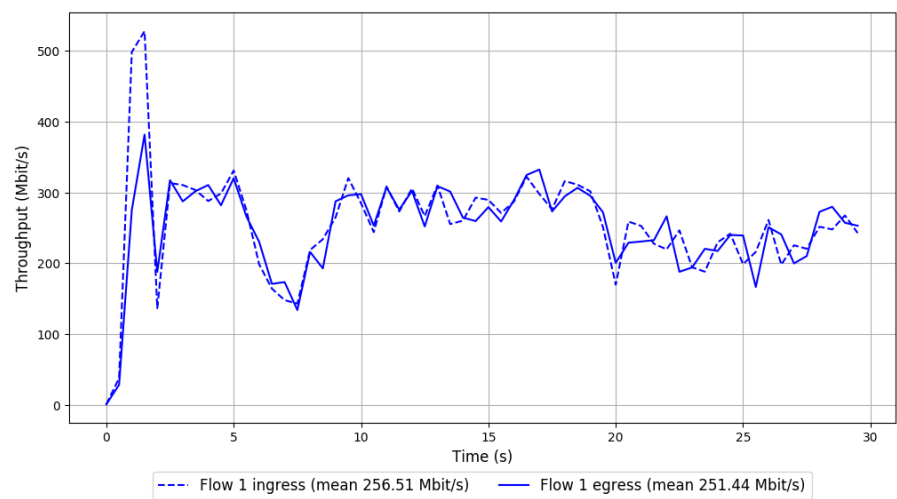
-- Flow 1:

Average throughput: 251.44 Mbit/s

95th percentile per-packet one-way delay: 94.834 ms

Loss rate: 1.94%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-03-27 05:56:02

End at: 2018-03-27 05:56:32

Below is generated by plot.py at 2018-03-27 10:59:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.76 Mbit/s

95th percentile per-packet one-way delay: 53.445 ms

Loss rate: 0.00%

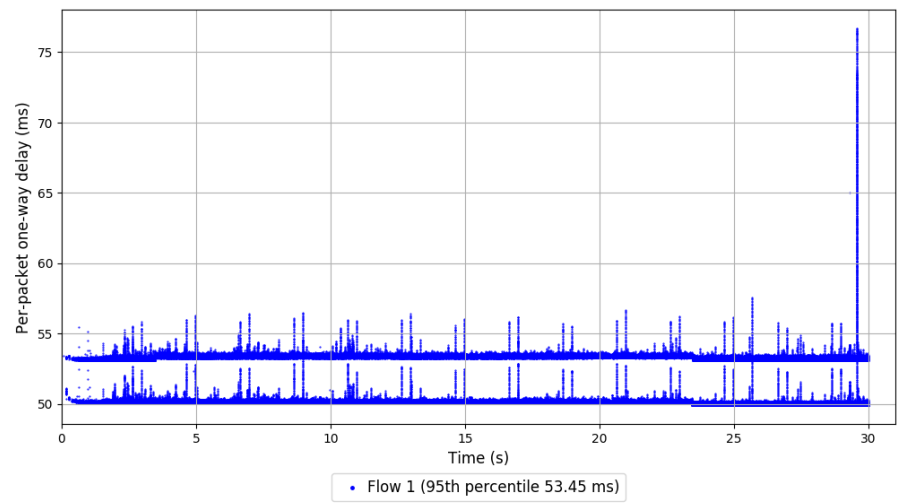
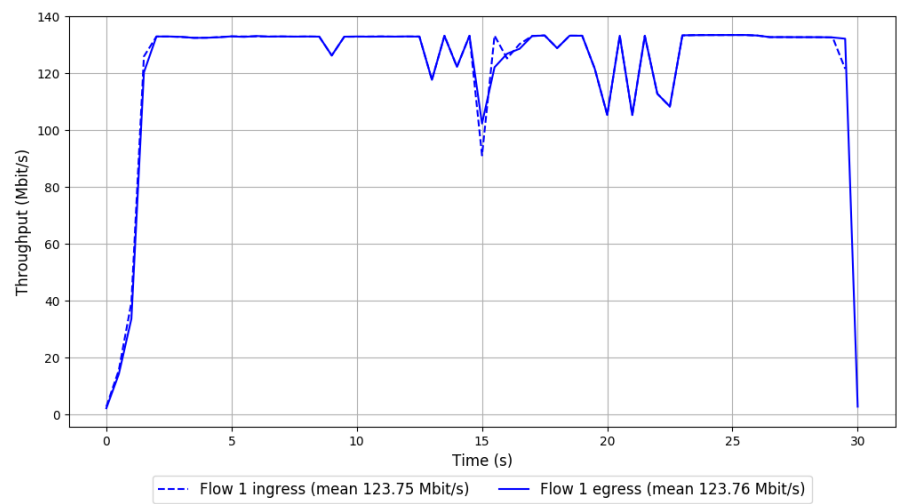
-- Flow 1:

Average throughput: 123.76 Mbit/s

95th percentile per-packet one-way delay: 53.445 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-03-27 06:10:12

End at: 2018-03-27 06:10:42

Below is generated by plot.py at 2018-03-27 11:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.86 Mbit/s

95th percentile per-packet one-way delay: 235.279 ms

Loss rate: 36.23%

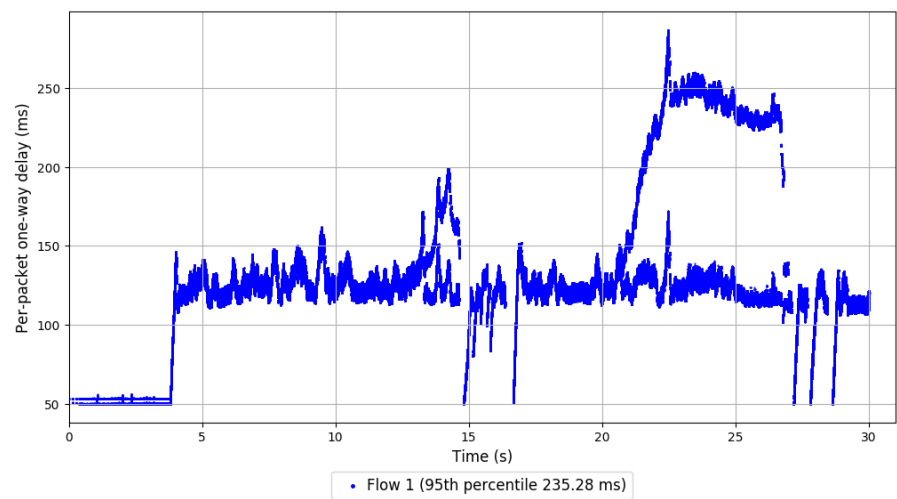
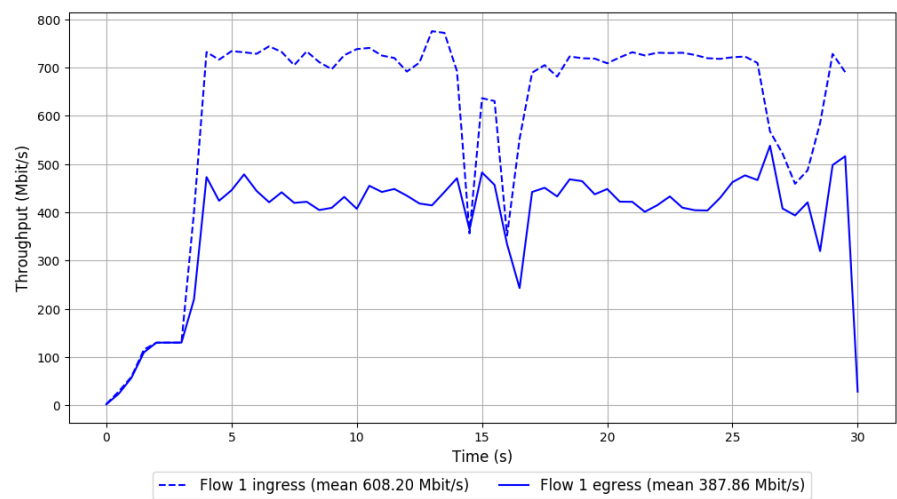
-- Flow 1:

Average throughput: 387.86 Mbit/s

95th percentile per-packet one-way delay: 235.279 ms

Loss rate: 36.23%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-27 06:24:47

End at: 2018-03-27 06:25:17

Below is generated by plot.py at 2018-03-27 11:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 0.00%

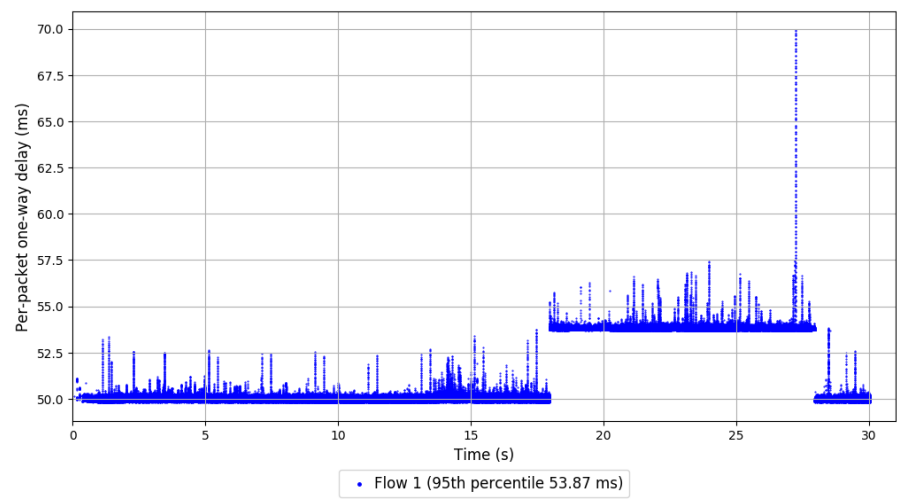
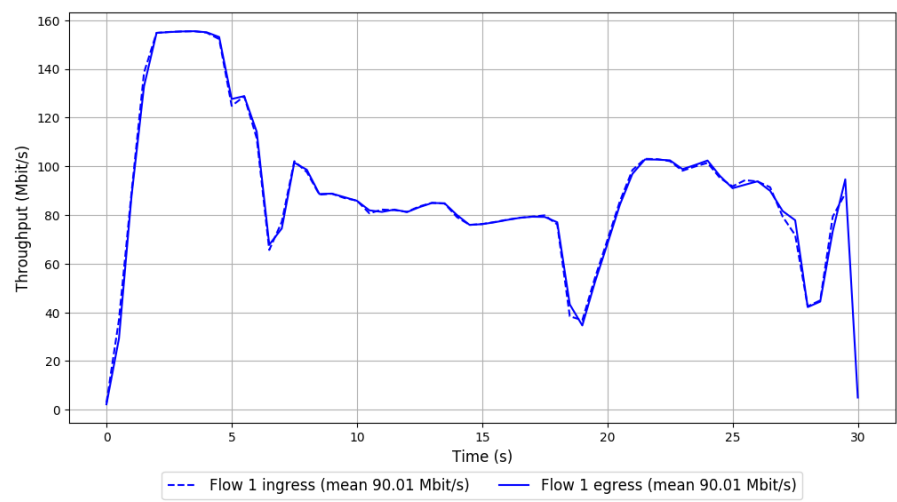
-- Flow 1:

Average throughput: 90.01 Mbit/s

95th percentile per-packet one-way delay: 53.866 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-27 06:38:58

End at: 2018-03-27 06:39:28

Below is generated by plot.py at 2018-03-27 11:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.44 Mbit/s

95th percentile per-packet one-way delay: 283.031 ms

Loss rate: 37.40%

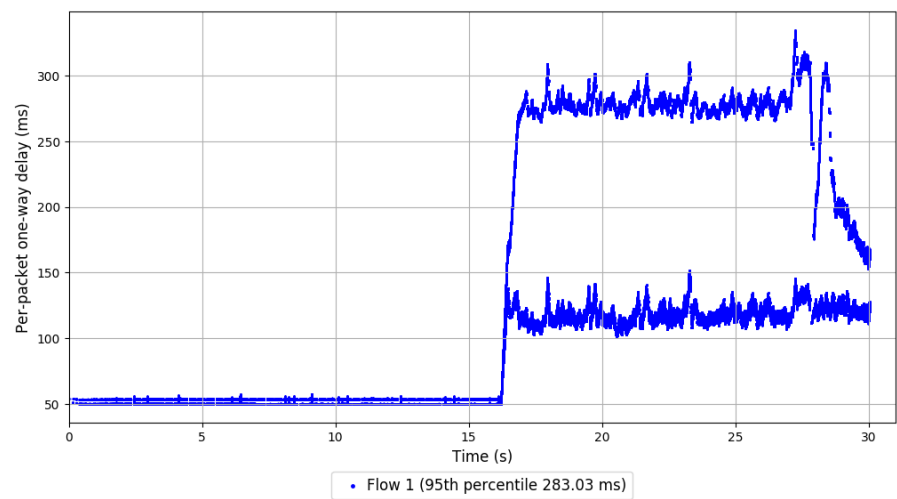
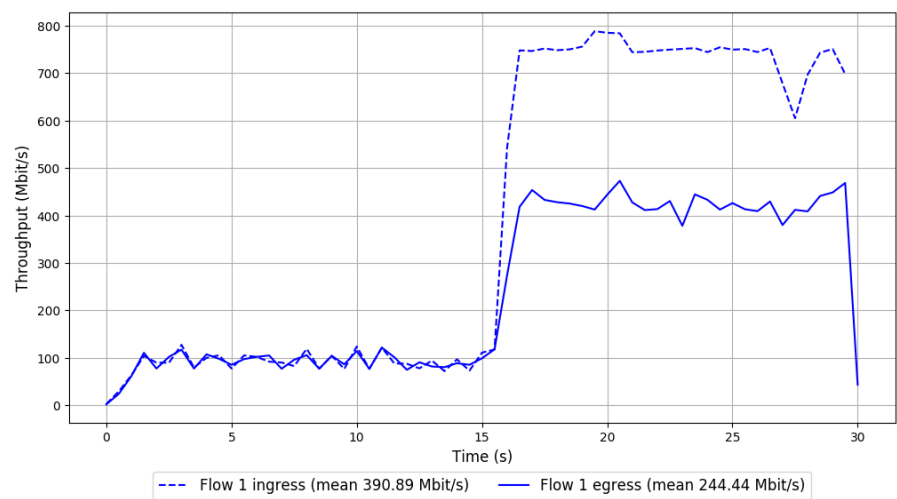
-- Flow 1:

Average throughput: 244.44 Mbit/s

95th percentile per-packet one-way delay: 283.031 ms

Loss rate: 37.40%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-27 06:53:54

End at: 2018-03-27 06:54:24

Below is generated by plot.py at 2018-03-27 11:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.00%

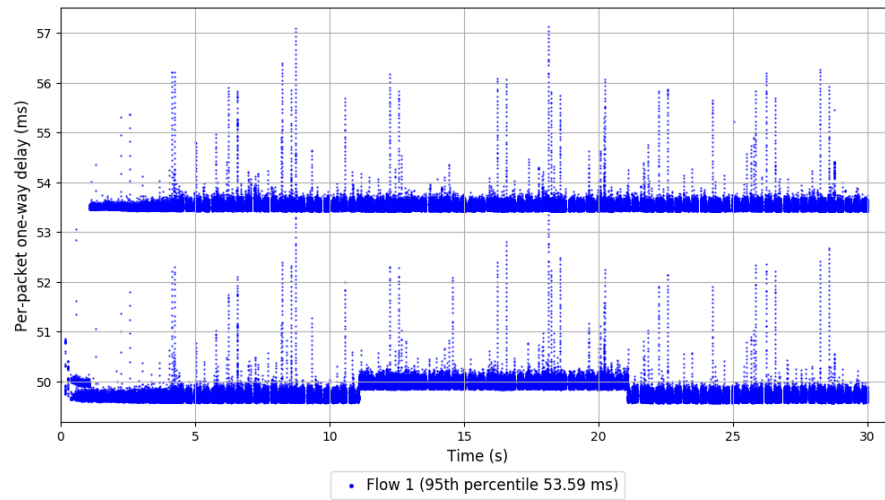
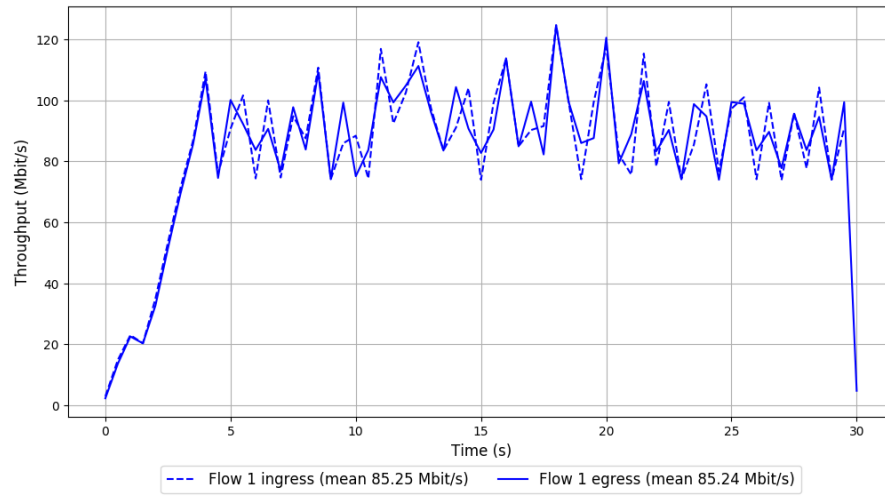
-- Flow 1:

Average throughput: 85.24 Mbit/s

95th percentile per-packet one-way delay: 53.592 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-27 07:08:05

End at: 2018-03-27 07:08:35

Below is generated by plot.py at 2018-03-27 11:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 0.01%

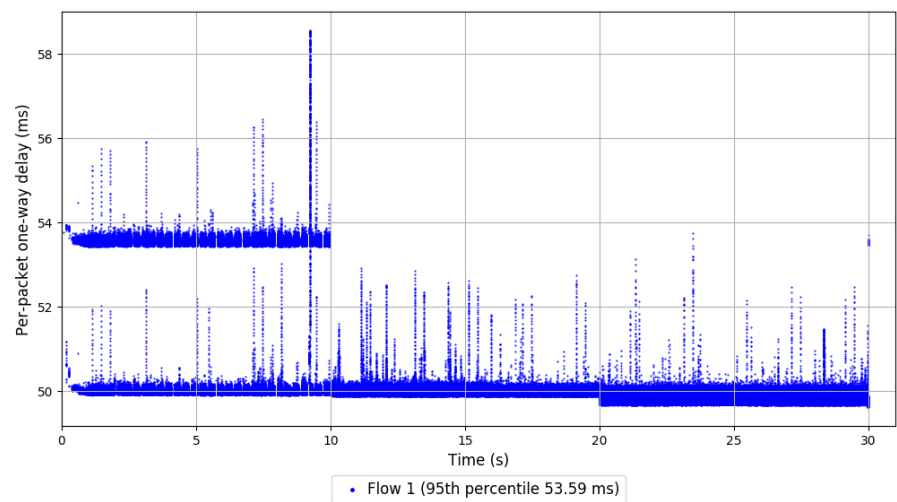
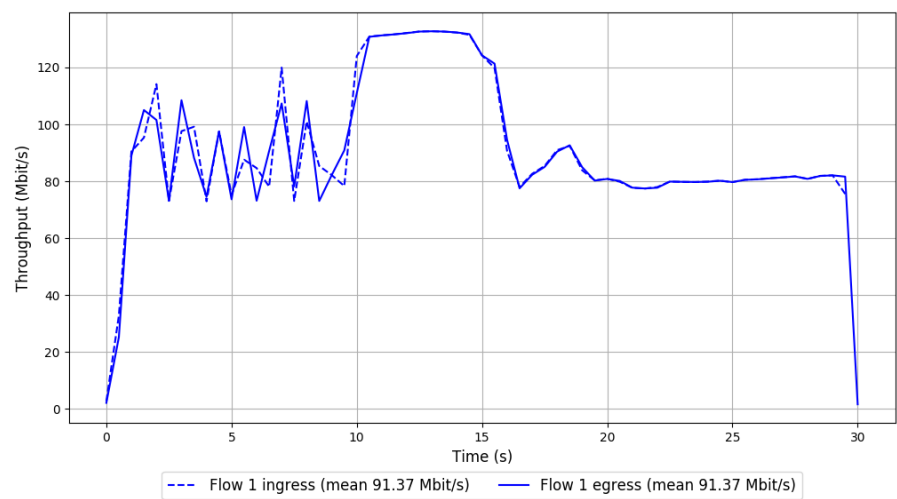
-- Flow 1:

Average throughput: 91.37 Mbit/s

95th percentile per-packet one-way delay: 53.587 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-27 07:22:24

End at: 2018-03-27 07:22:54

Below is generated by plot.py at 2018-03-27 11:11:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.46 Mbit/s

95th percentile per-packet one-way delay: 239.253 ms

Loss rate: 34.05%

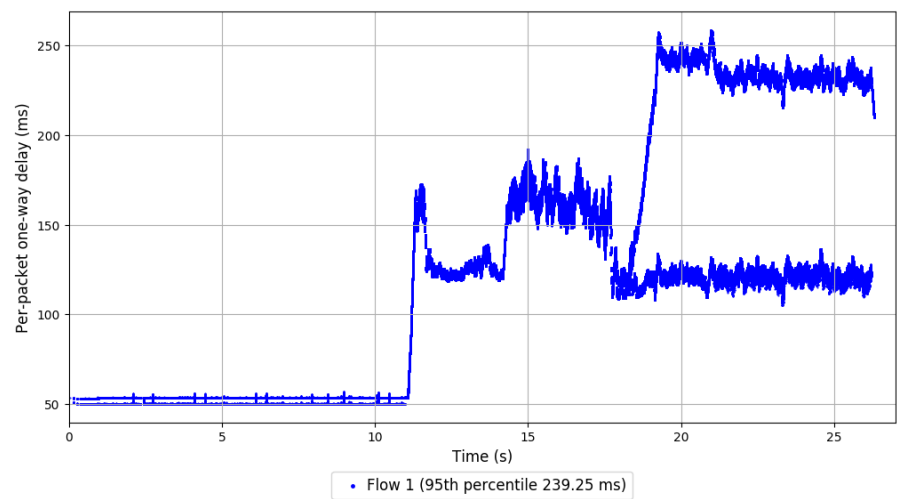
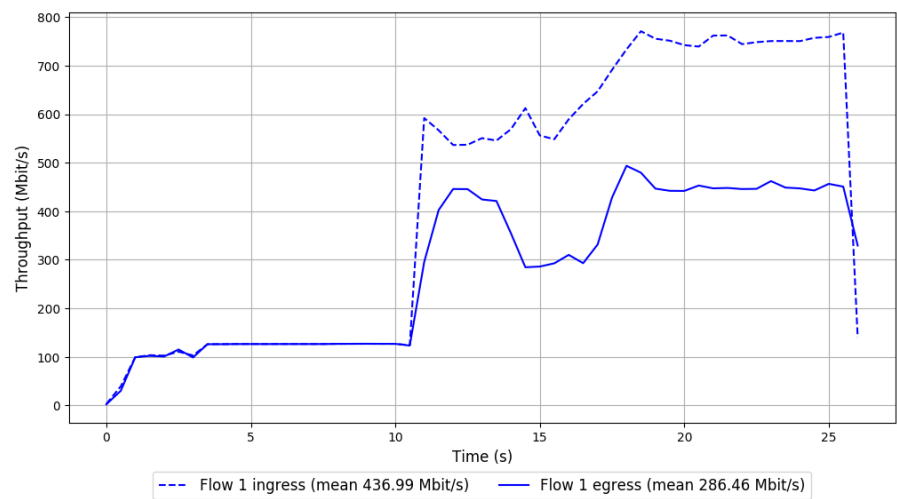
-- Flow 1:

Average throughput: 286.46 Mbit/s

95th percentile per-packet one-way delay: 239.253 ms

Loss rate: 34.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-27 07:37:03

End at: 2018-03-27 07:37:33

Below is generated by plot.py at 2018-03-27 11:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.87 Mbit/s

95th percentile per-packet one-way delay: 240.927 ms

Loss rate: 36.25%

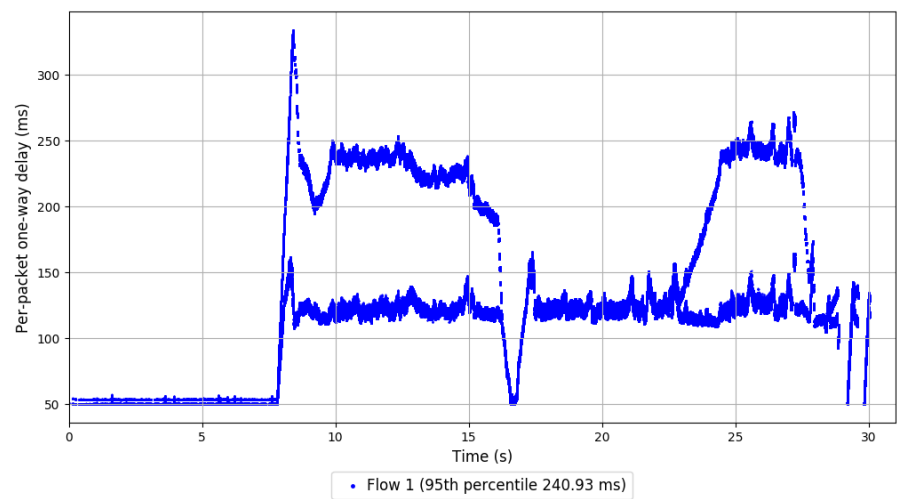
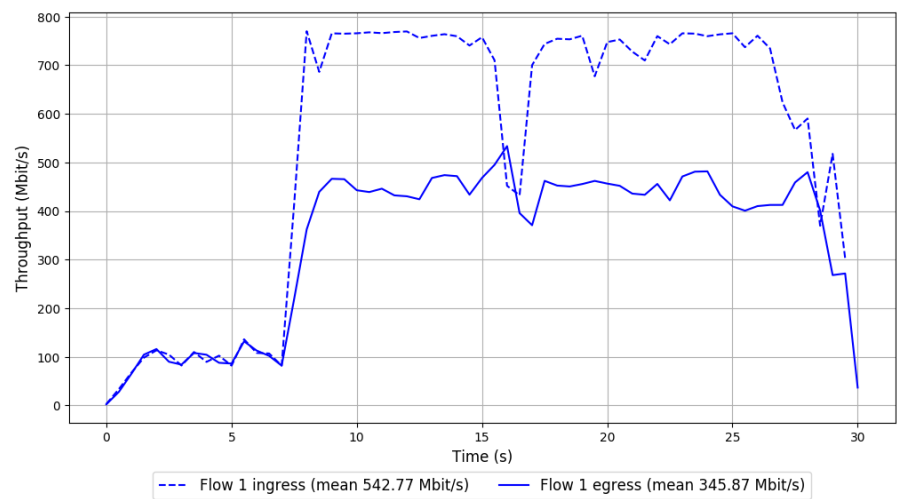
-- Flow 1:

Average throughput: 345.87 Mbit/s

95th percentile per-packet one-way delay: 240.927 ms

Loss rate: 36.25%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-27 07:51:40

End at: 2018-03-27 07:52:10

Below is generated by plot.py at 2018-03-27 11:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 53.182 ms

Loss rate: 0.00%

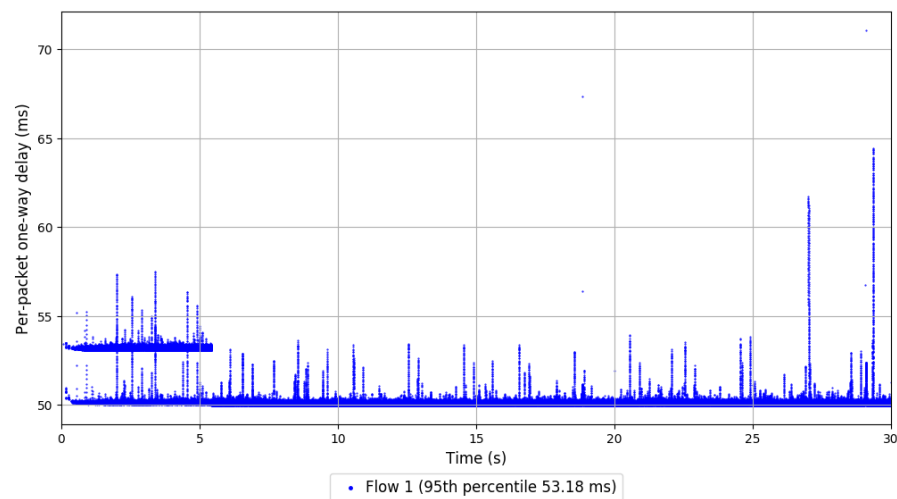
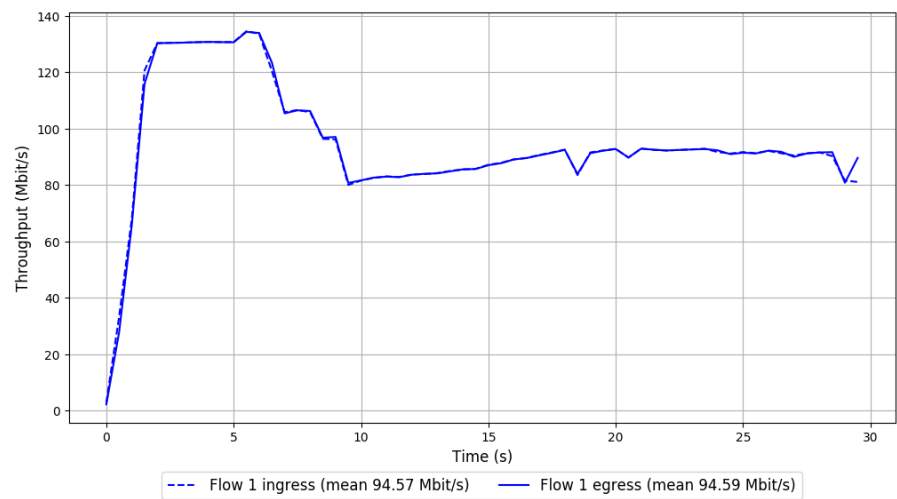
-- Flow 1:

Average throughput: 94.59 Mbit/s

95th percentile per-packet one-way delay: 53.182 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-27 08:06:13

End at: 2018-03-27 08:06:43

Below is generated by plot.py at 2018-03-27 11:13:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.76 Mbit/s

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

Loss rate: 0.01%

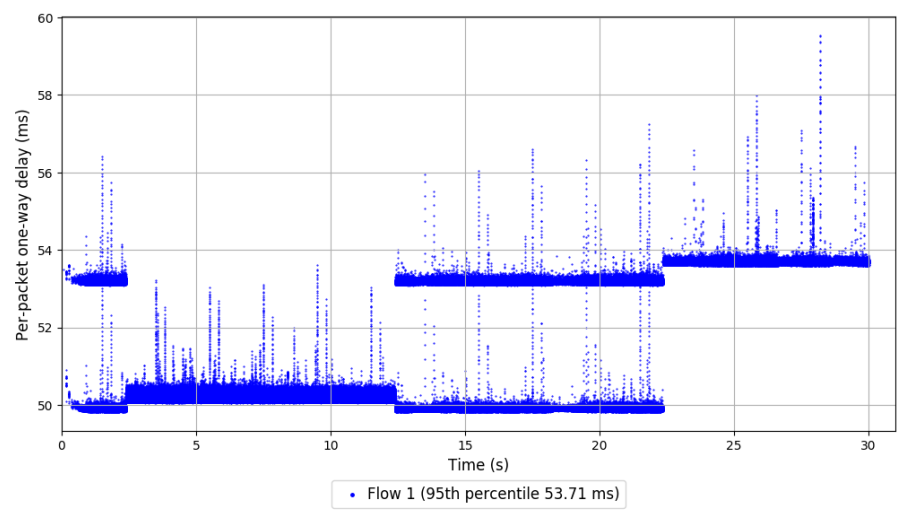
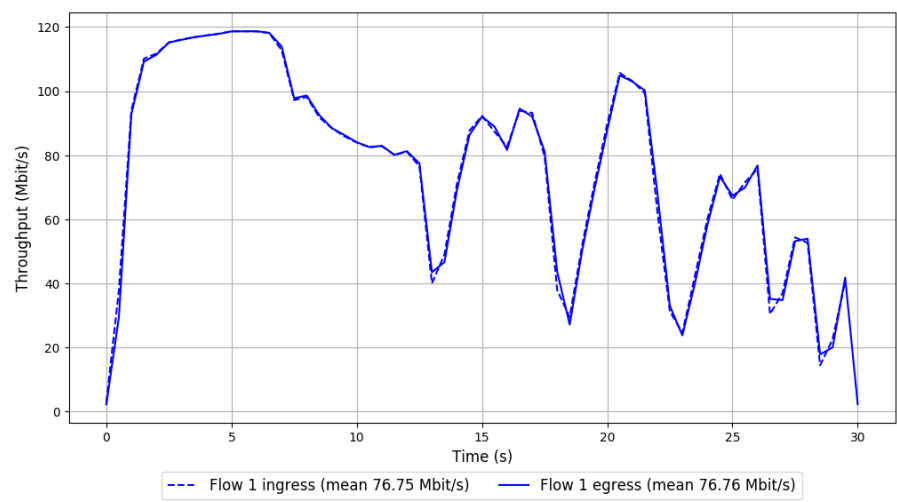
-- Flow 1:

Average throughput: 76.76 Mbit/s

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

Loss rate: 0.01%

Run 10: Report of Copa — Data Link

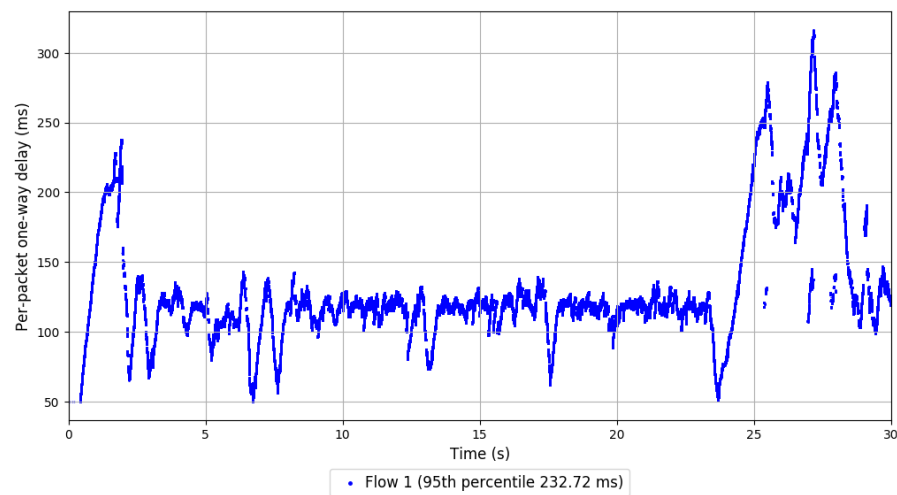
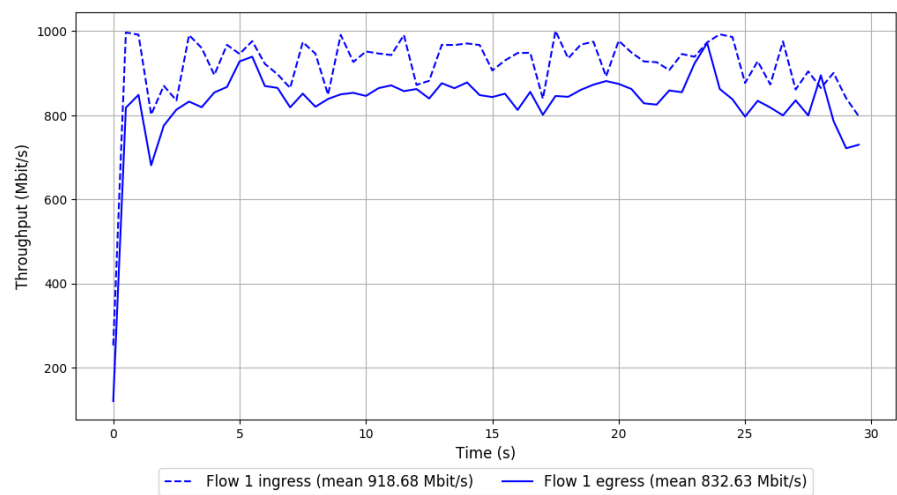


```
Run 1: Statistics of FillP

Start at: 2018-03-27 05:52:53
End at: 2018-03-27 05:53:23

# Below is generated by plot.py at 2018-03-27 11:18:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 832.63 Mbit/s
95th percentile per-packet one-way delay: 232.723 ms
Loss rate: 9.37%
-- Flow 1:
Average throughput: 832.63 Mbit/s
95th percentile per-packet one-way delay: 232.723 ms
Loss rate: 9.37%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-03-27 06:07:05

End at: 2018-03-27 06:07:35

Below is generated by plot.py at 2018-03-27 11:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.30 Mbit/s

95th percentile per-packet one-way delay: 141.324 ms

Loss rate: 10.77%

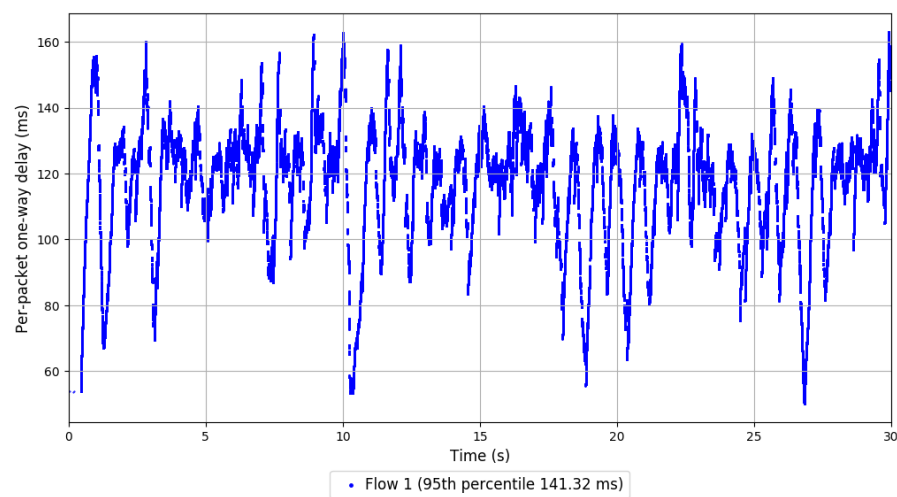
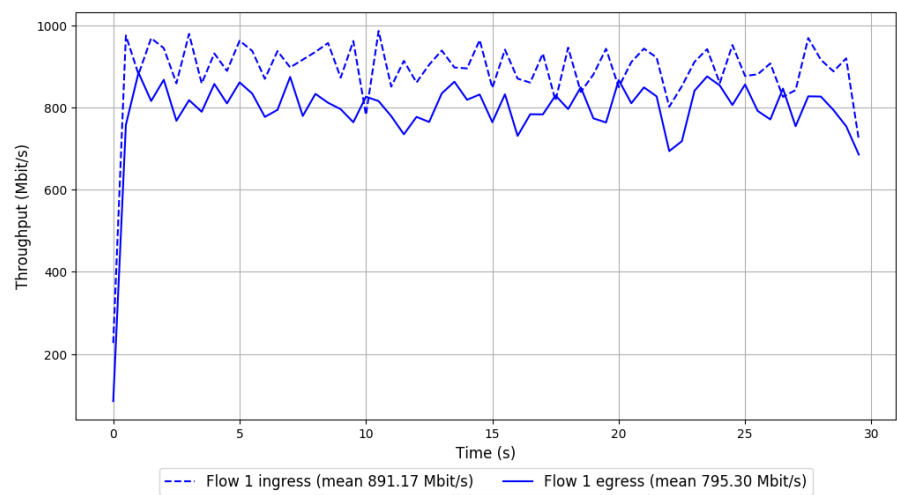
-- Flow 1:

Average throughput: 795.30 Mbit/s

95th percentile per-packet one-way delay: 141.324 ms

Loss rate: 10.77%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-27 06:21:36

End at: 2018-03-27 06:22:07

Below is generated by plot.py at 2018-03-27 11:21:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 850.31 Mbit/s

95th percentile per-packet one-way delay: 135.057 ms

Loss rate: 7.71%

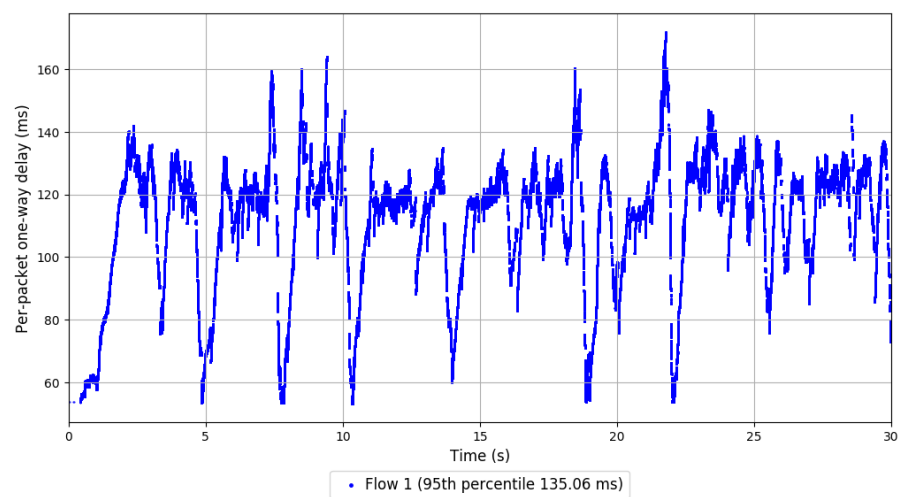
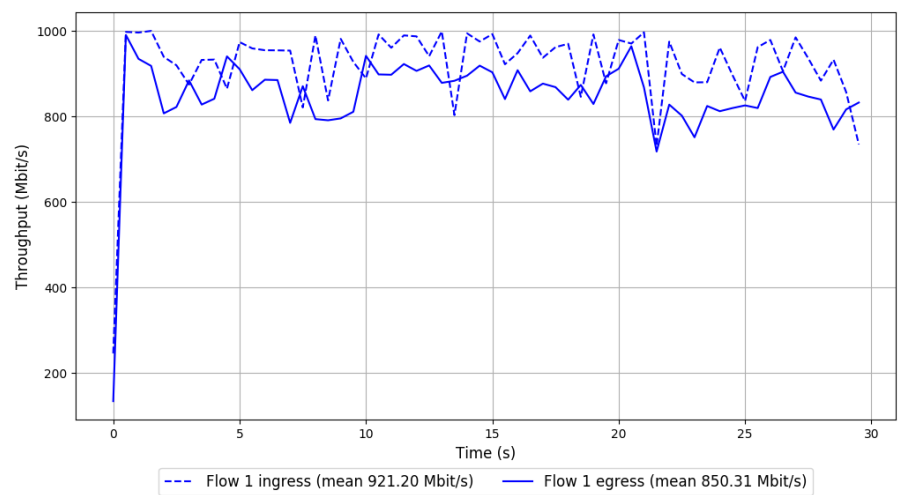
-- Flow 1:

Average throughput: 850.31 Mbit/s

95th percentile per-packet one-way delay: 135.057 ms

Loss rate: 7.71%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-27 06:35:48

End at: 2018-03-27 06:36:18

Below is generated by plot.py at 2018-03-27 11:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 876.97 Mbit/s

95th percentile per-packet one-way delay: 128.353 ms

Loss rate: 7.09%

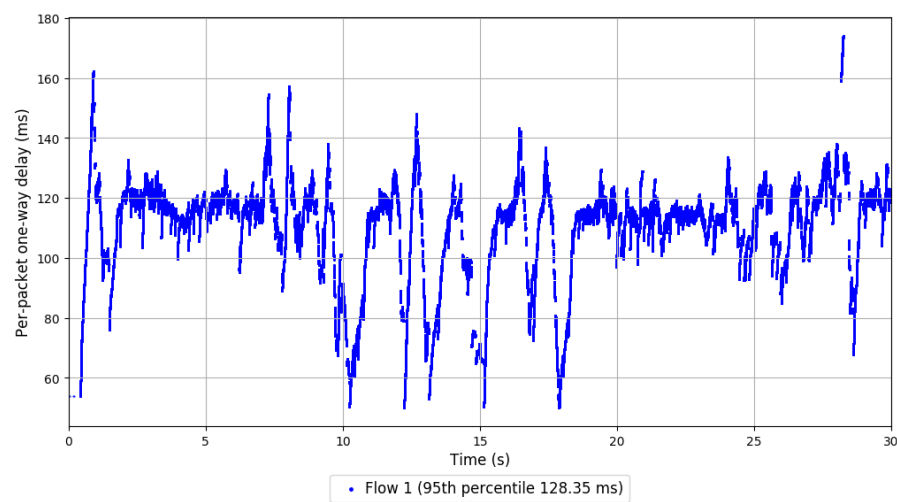
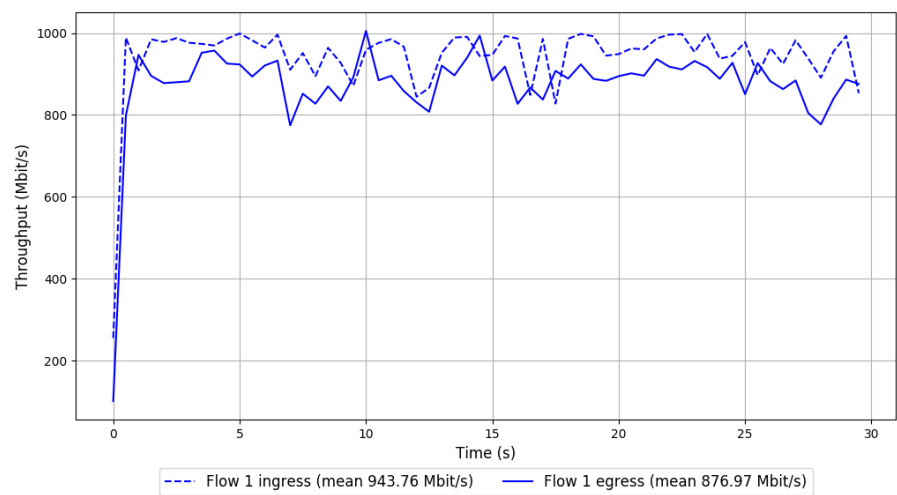
-- Flow 1:

Average throughput: 876.97 Mbit/s

95th percentile per-packet one-way delay: 128.353 ms

Loss rate: 7.09%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-27 06:50:45

End at: 2018-03-27 06:51:15

Below is generated by plot.py at 2018-03-27 11:27:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.36 Mbit/s

95th percentile per-packet one-way delay: 151.467 ms

Loss rate: 9.40%

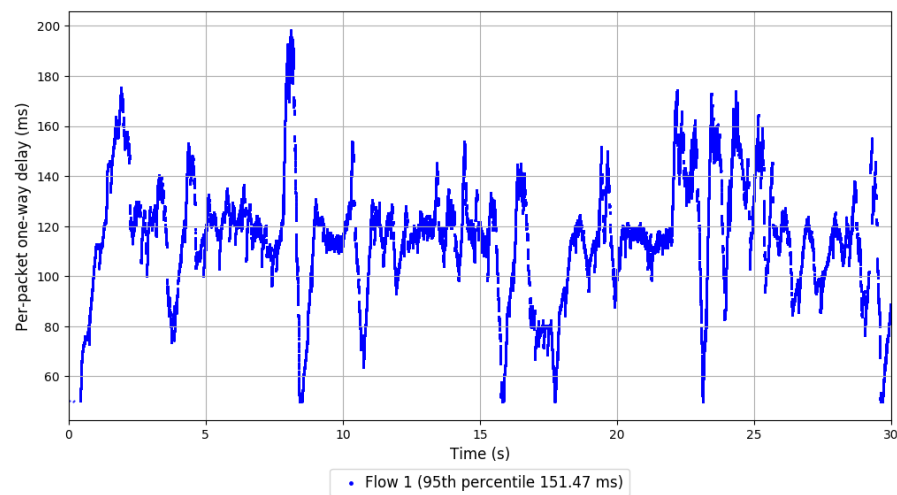
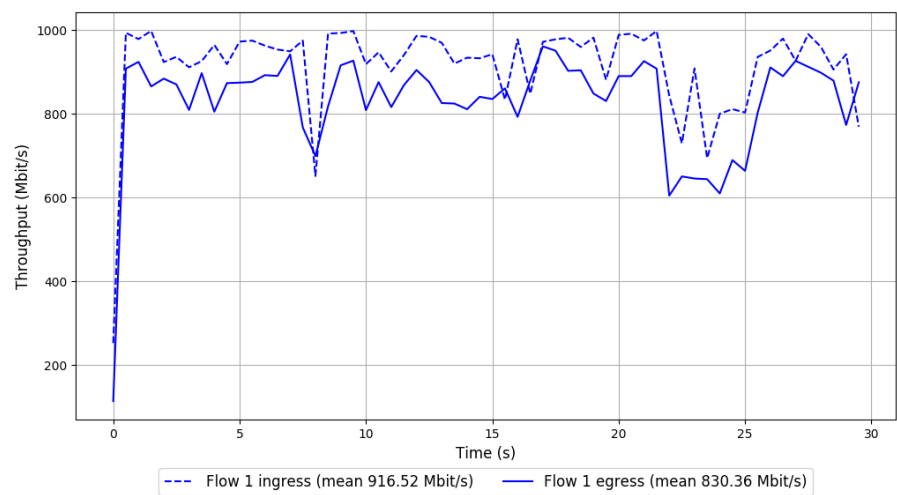
-- Flow 1:

Average throughput: 830.36 Mbit/s

95th percentile per-packet one-way delay: 151.467 ms

Loss rate: 9.40%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-27 07:04:56

End at: 2018-03-27 07:05:26

Below is generated by plot.py at 2018-03-27 11:28:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.00 Mbit/s

95th percentile per-packet one-way delay: 143.306 ms

Loss rate: 10.77%

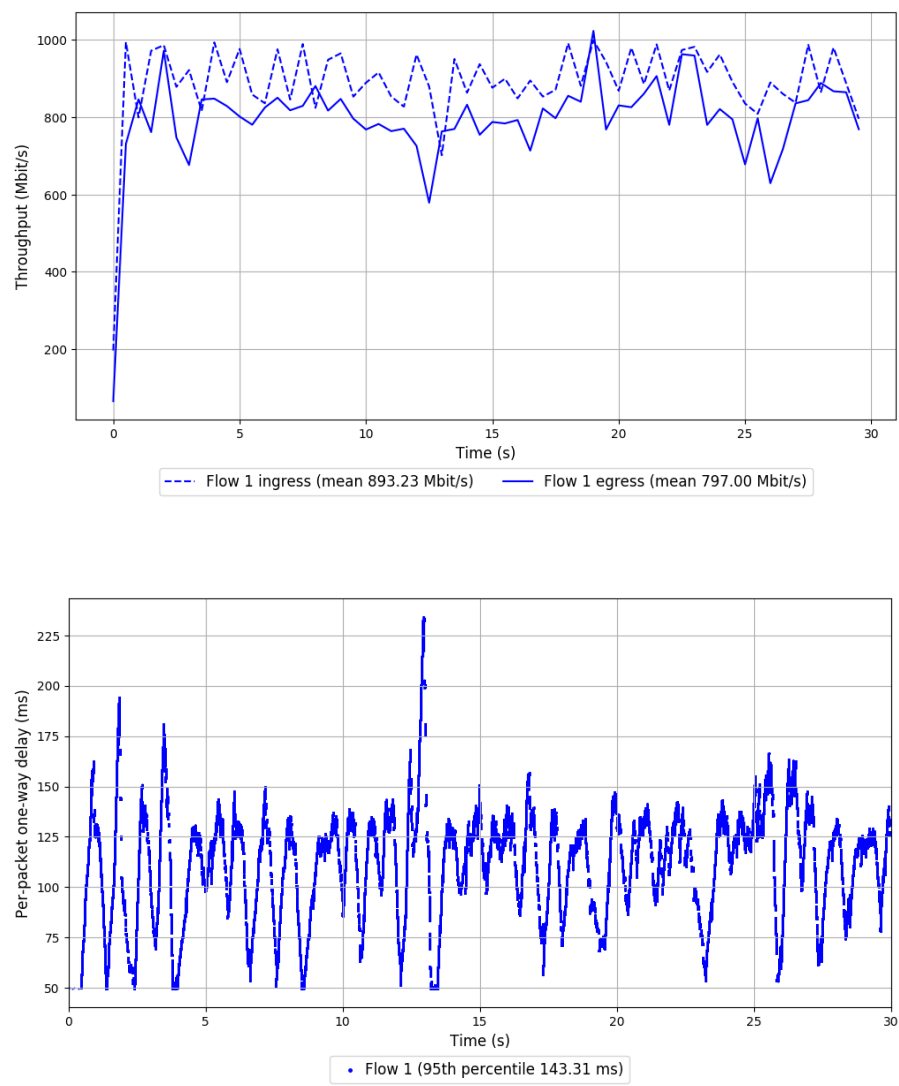
-- Flow 1:

Average throughput: 797.00 Mbit/s

95th percentile per-packet one-way delay: 143.306 ms

Loss rate: 10.77%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-27 07:19:16

End at: 2018-03-27 07:19:46

Below is generated by plot.py at 2018-03-27 11:31:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.78 Mbit/s

95th percentile per-packet one-way delay: 141.527 ms

Loss rate: 10.19%

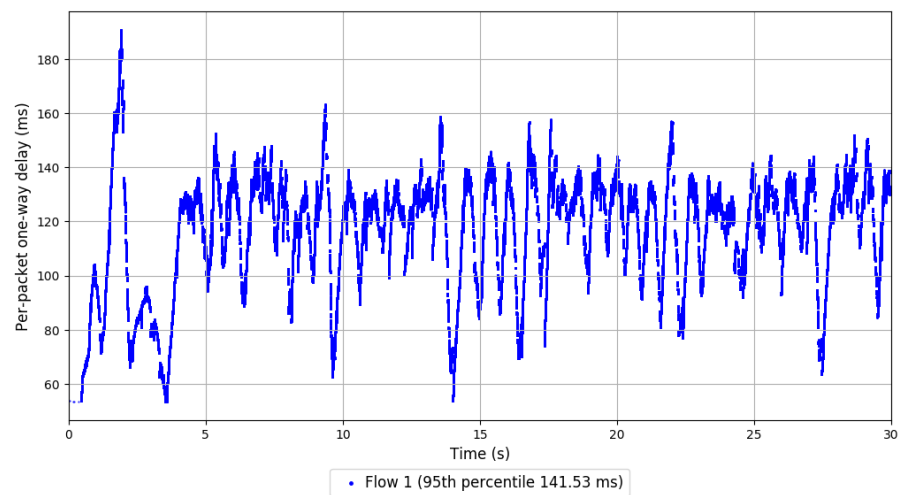
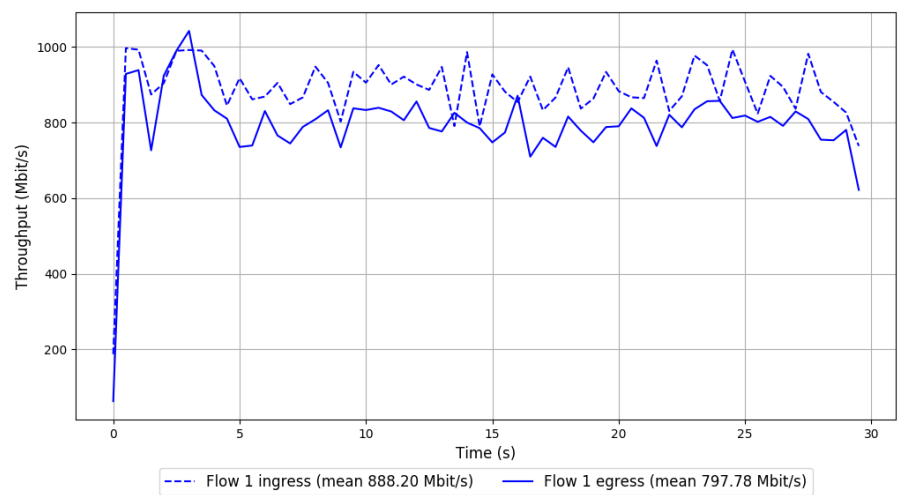
-- Flow 1:

Average throughput: 797.78 Mbit/s

95th percentile per-packet one-way delay: 141.527 ms

Loss rate: 10.19%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-27 07:33:54

End at: 2018-03-27 07:34:24

Below is generated by plot.py at 2018-03-27 11:34:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.63 Mbit/s

95th percentile per-packet one-way delay: 140.050 ms

Loss rate: 9.23%

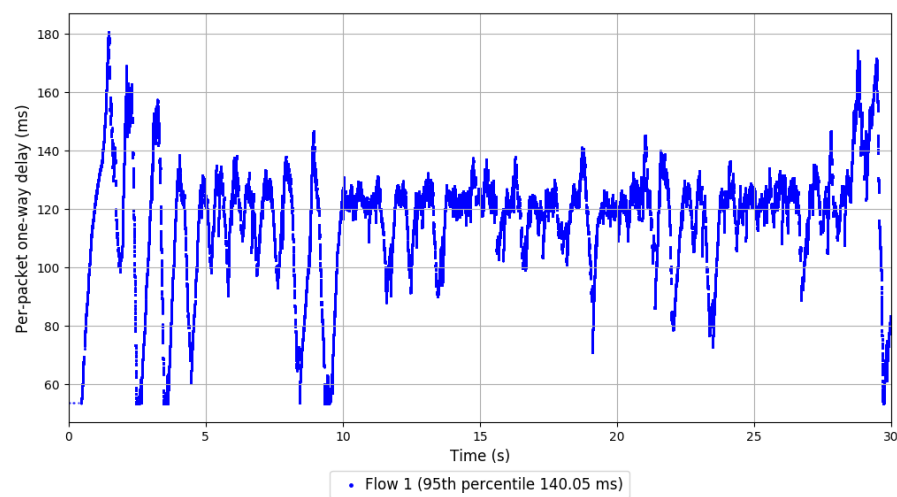
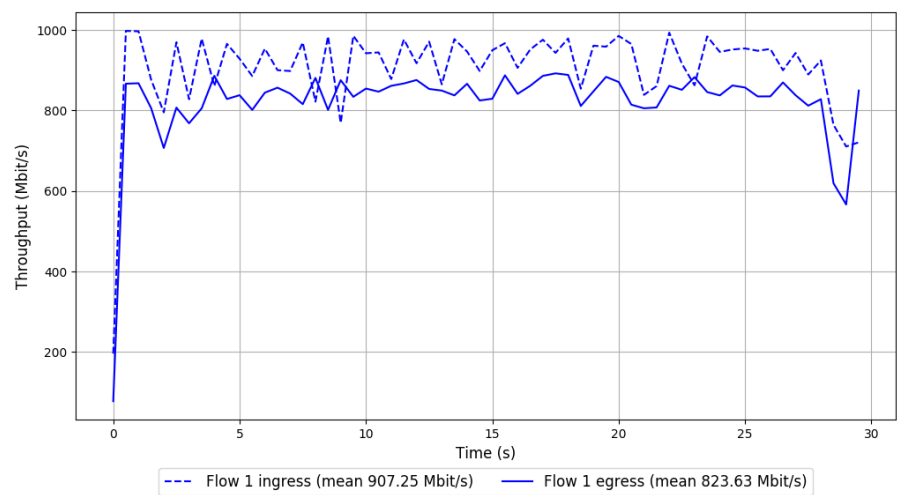
-- Flow 1:

Average throughput: 823.63 Mbit/s

95th percentile per-packet one-way delay: 140.050 ms

Loss rate: 9.23%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-27 07:48:30

End at: 2018-03-27 07:49:00

Below is generated by plot.py at 2018-03-27 11:39:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.43 Mbit/s

95th percentile per-packet one-way delay: 143.025 ms

Loss rate: 8.23%

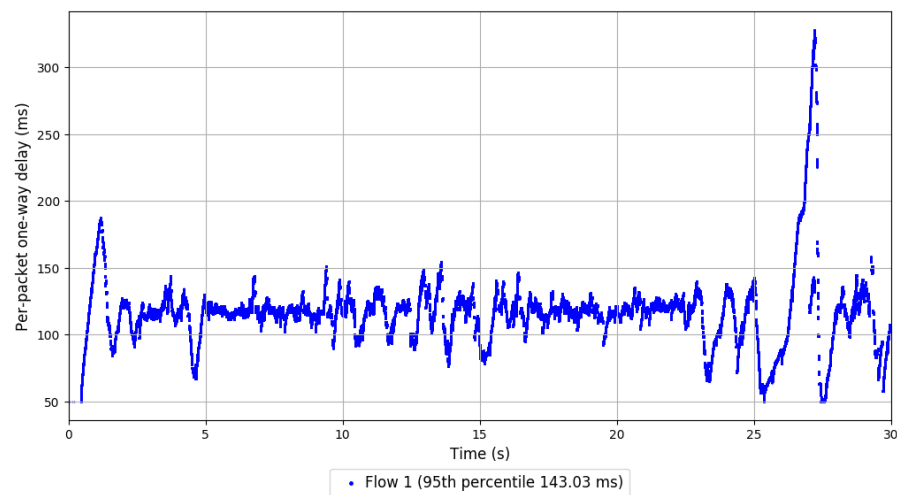
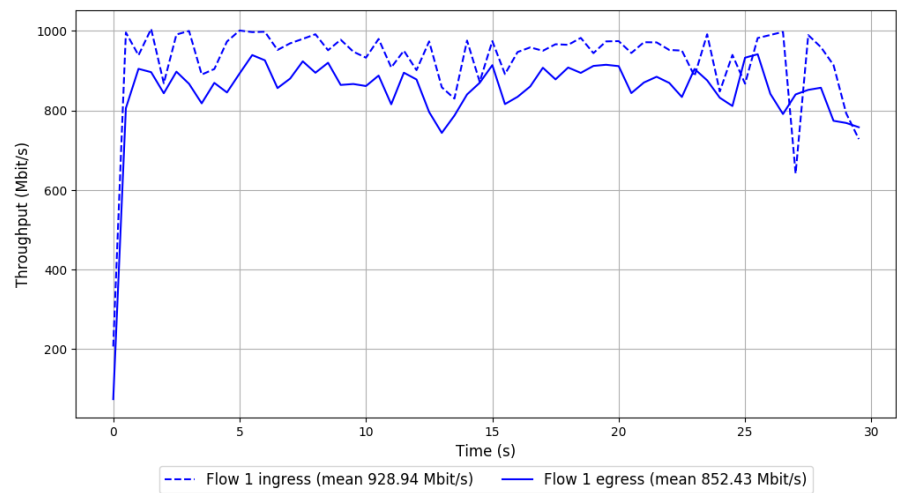
-- Flow 1:

Average throughput: 852.43 Mbit/s

95th percentile per-packet one-way delay: 143.025 ms

Loss rate: 8.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

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

End at: 2018-03-27 08:03:33

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 825.97 Mbit/s

95th percentile per-packet one-way delay: 145.967 ms

Loss rate: 9.81%

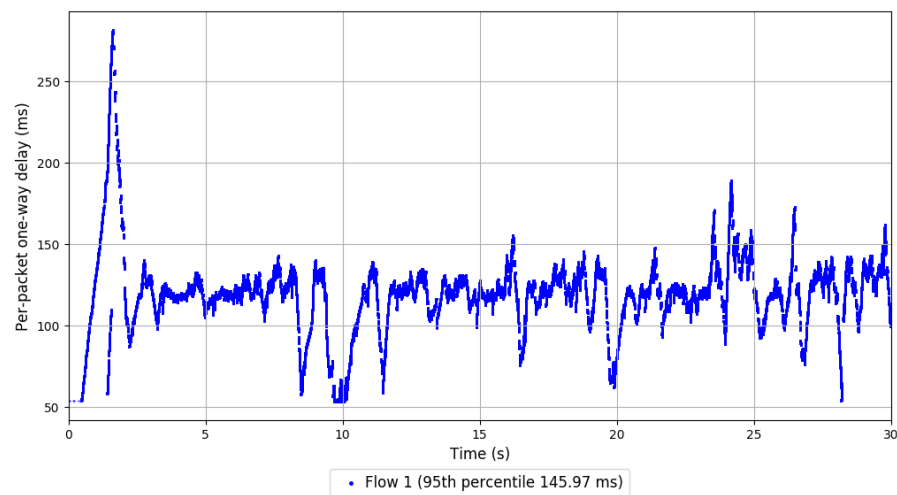
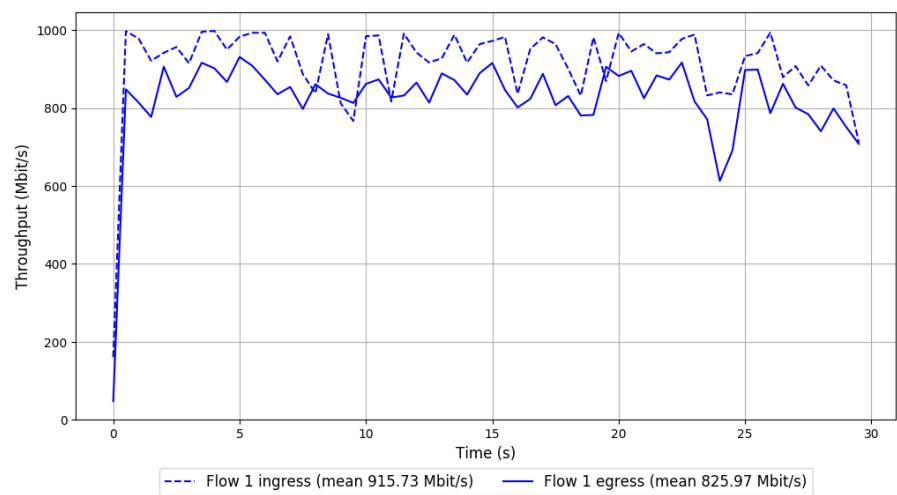
-- Flow 1:

Average throughput: 825.97 Mbit/s

95th percentile per-packet one-way delay: 145.967 ms

Loss rate: 9.81%

Run 10: Report of FillP — Data Link

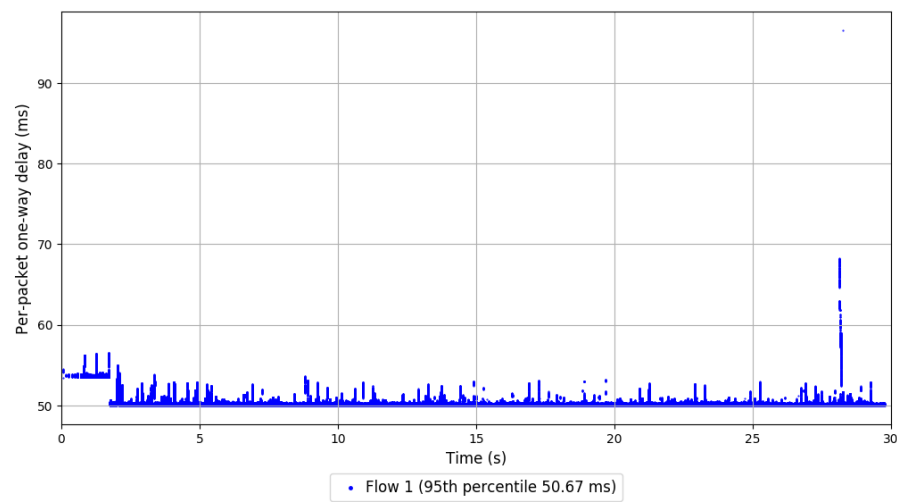
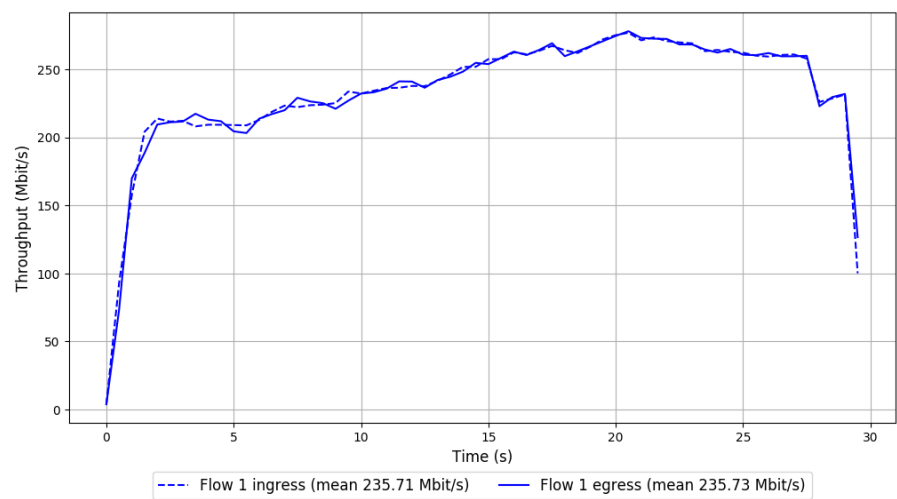


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-27 06:06:13
End at: 2018-03-27 06:06:43

# Below is generated by plot.py at 2018-03-27 11:39:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 235.73 Mbit/s
95th percentile per-packet one-way delay: 50.675 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 235.73 Mbit/s
95th percentile per-packet one-way delay: 50.675 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-03-27 06:20:47

End at: 2018-03-27 06:21:17

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.16 Mbit/s

95th percentile per-packet one-way delay: 53.881 ms

Loss rate: 0.00%

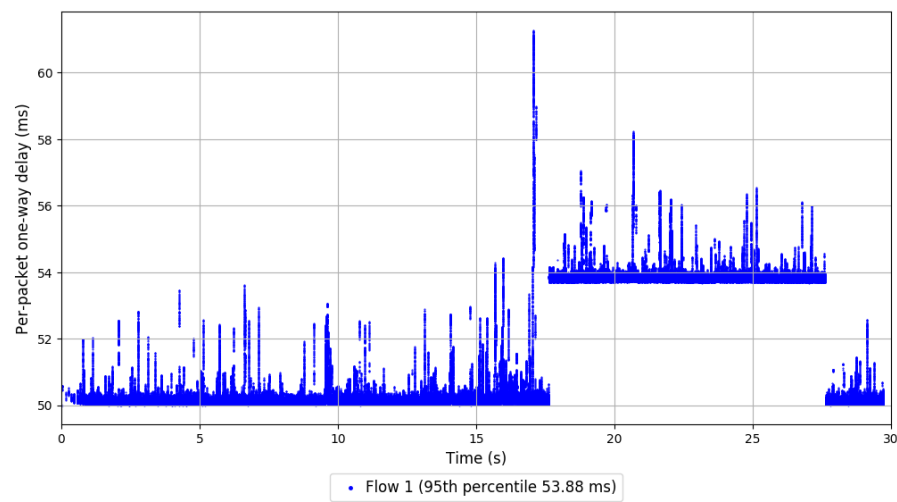
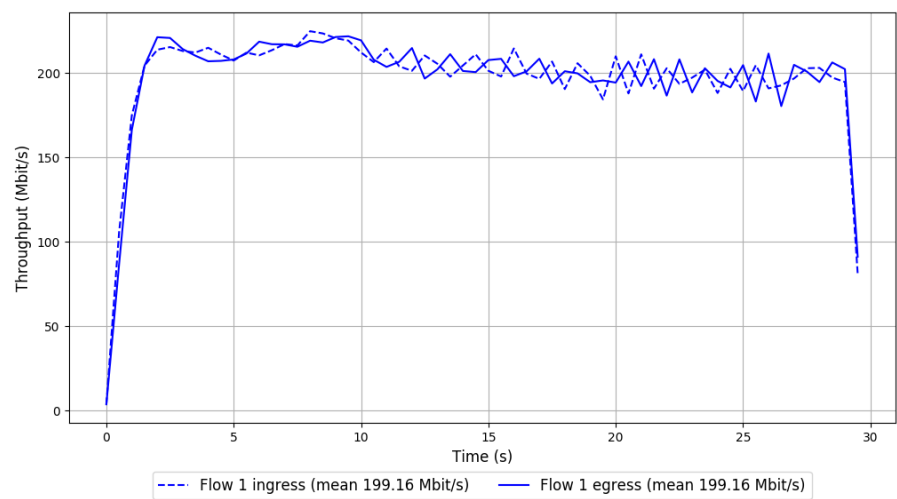
-- Flow 1:

Average throughput: 199.16 Mbit/s

95th percentile per-packet one-way delay: 53.881 ms

Loss rate: 0.00%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-27 06:34:59

End at: 2018-03-27 06:35:29

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.28 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 0.00%

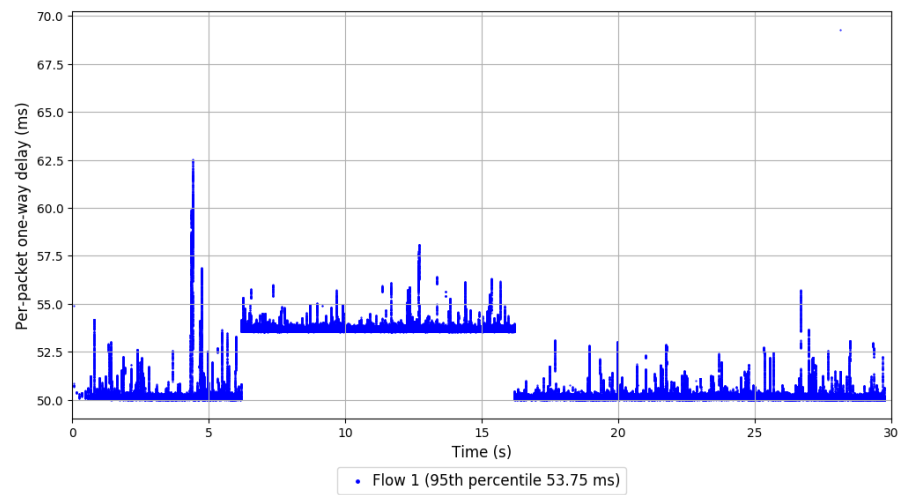
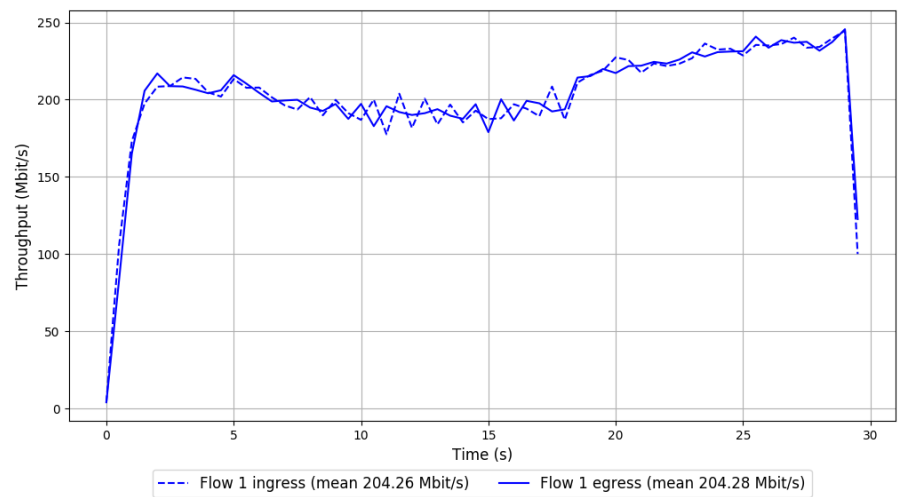
-- Flow 1:

Average throughput: 204.28 Mbit/s

95th percentile per-packet one-way delay: 53.748 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-27 06:49:55

End at: 2018-03-27 06:50:25

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.87 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.01%

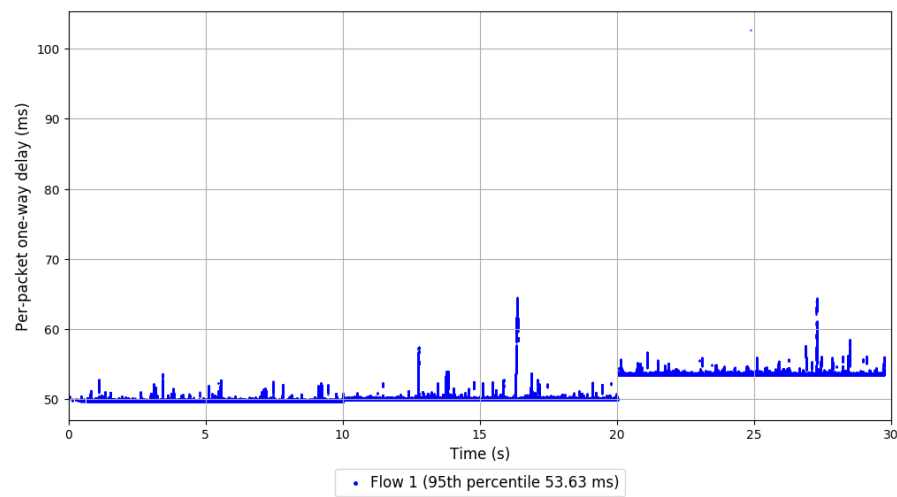
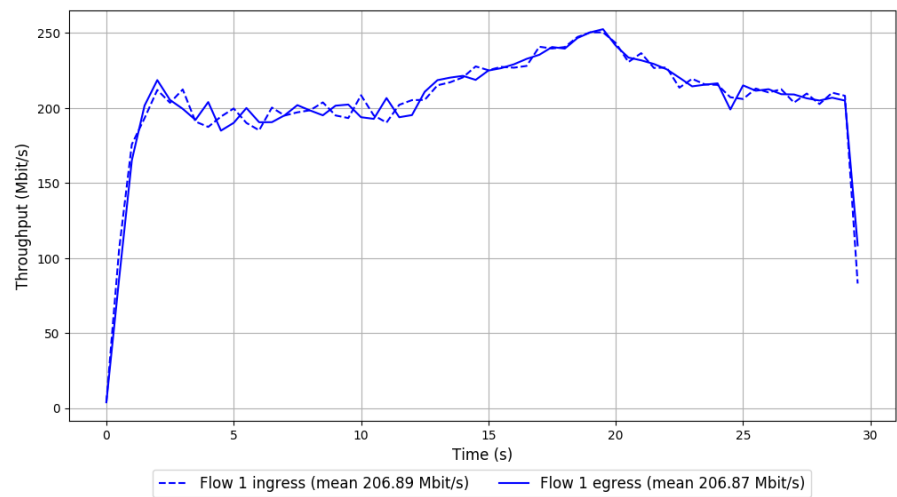
-- Flow 1:

Average throughput: 206.87 Mbit/s

95th percentile per-packet one-way delay: 53.630 ms

Loss rate: 0.01%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-27 07:04:05

End at: 2018-03-27 07:04:35

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 53.626 ms

Loss rate: 0.00%

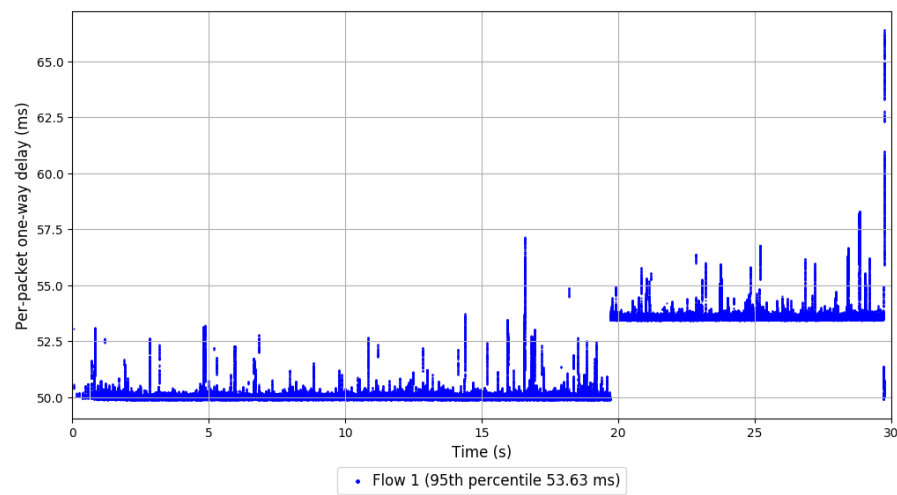
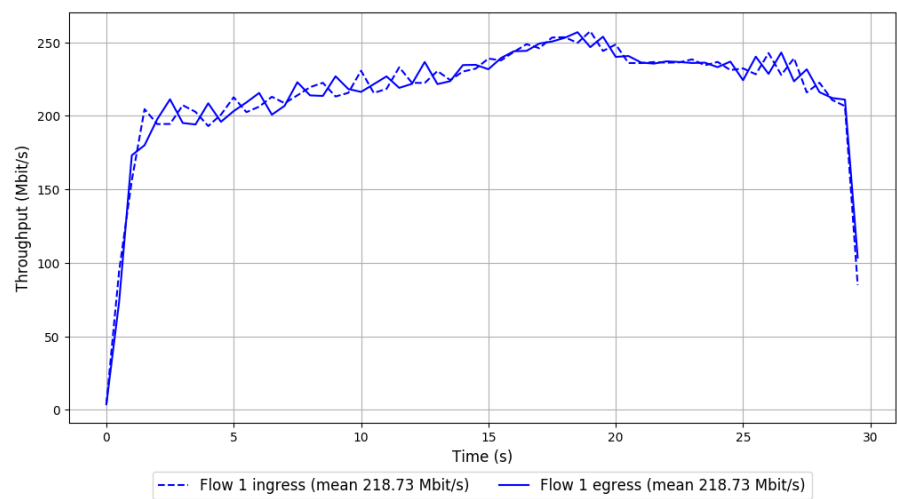
-- Flow 1:

Average throughput: 218.73 Mbit/s

95th percentile per-packet one-way delay: 53.626 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-27 07:18:24

End at: 2018-03-27 07:18:54

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.92 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

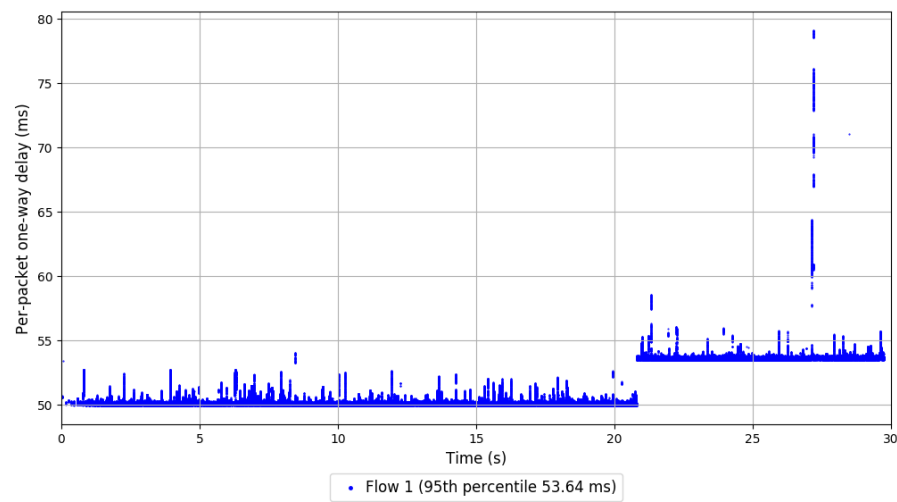
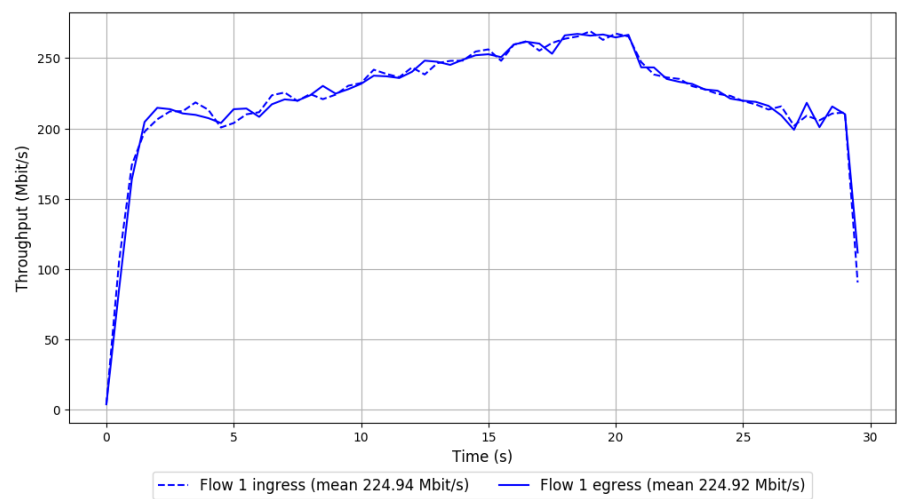
-- Flow 1:

Average throughput: 224.92 Mbit/s

95th percentile per-packet one-way delay: 53.638 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-27 07:33:03

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

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.64 Mbit/s

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

Loss rate: 0.00%

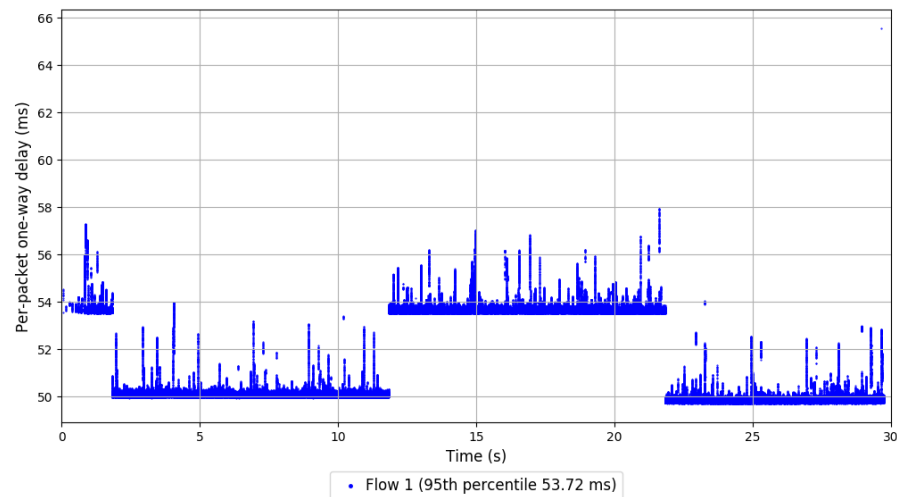
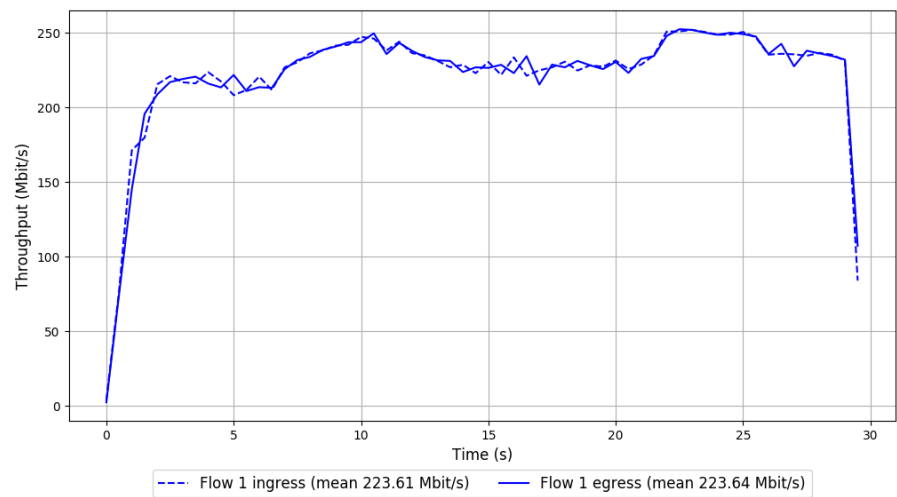
-- Flow 1:

Average throughput: 223.64 Mbit/s

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

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 07:47:40

End at: 2018-03-27 07:48:10

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

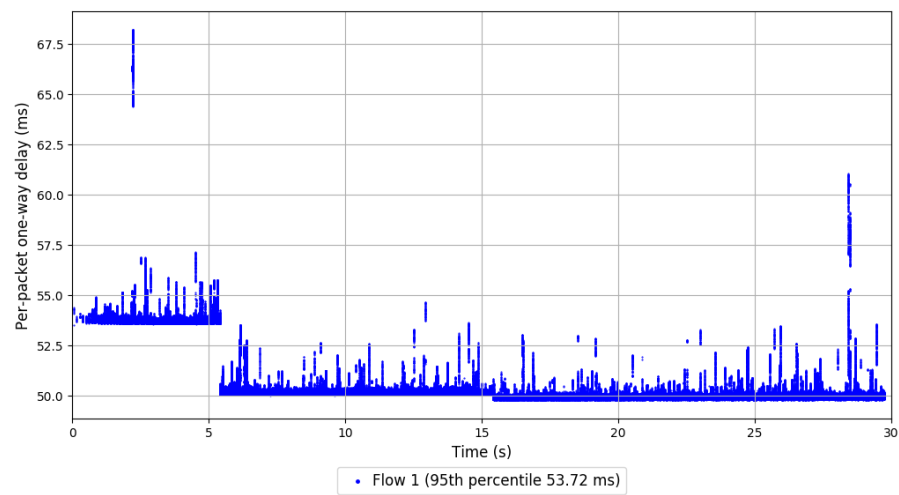
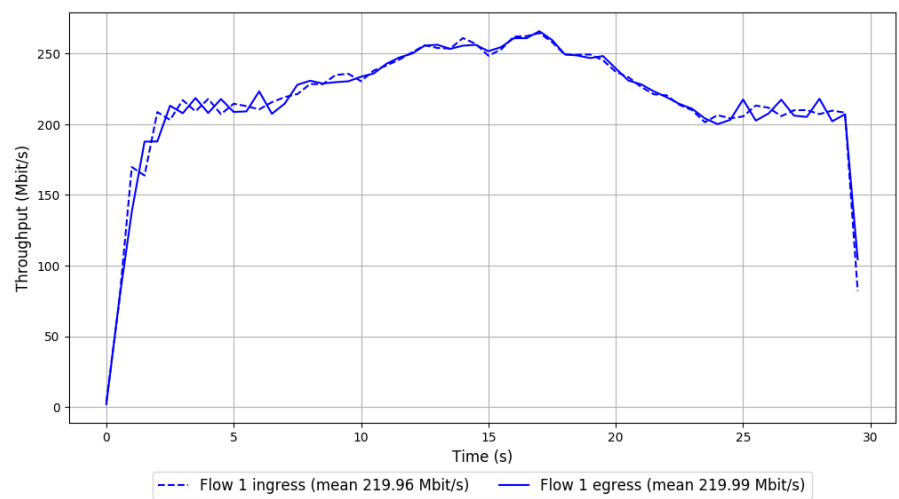
-- Flow 1:

Average throughput: 219.99 Mbit/s

95th percentile per-packet one-way delay: 53.716 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 08:02:12

End at: 2018-03-27 08:02:42

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.35 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

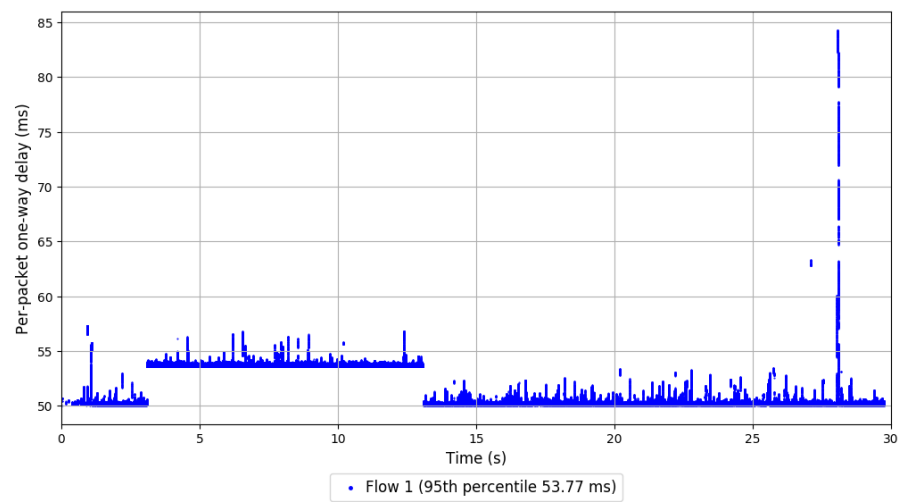
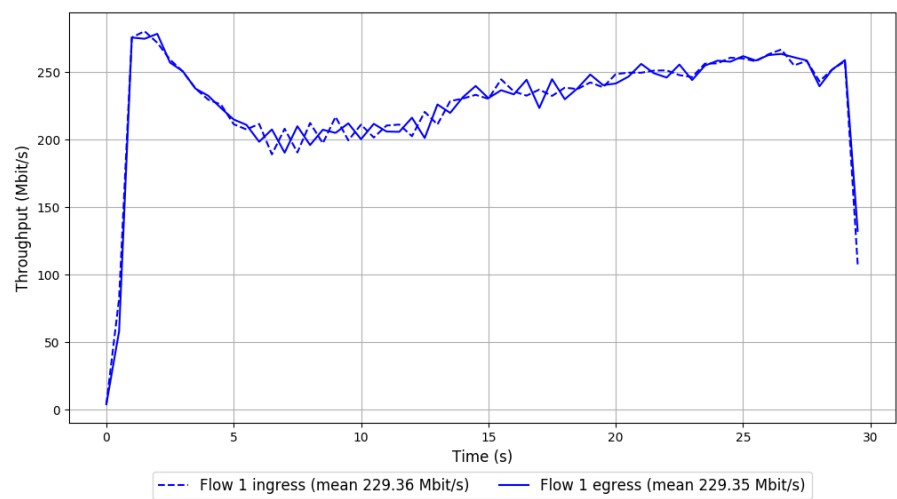
-- Flow 1:

Average throughput: 229.35 Mbit/s

95th percentile per-packet one-way delay: 53.774 ms

Loss rate: 0.00%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 08:16:49

End at: 2018-03-27 08:17:19

Below is generated by plot.py at 2018-03-27 11:39:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.24 Mbit/s

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

Loss rate: 0.00%

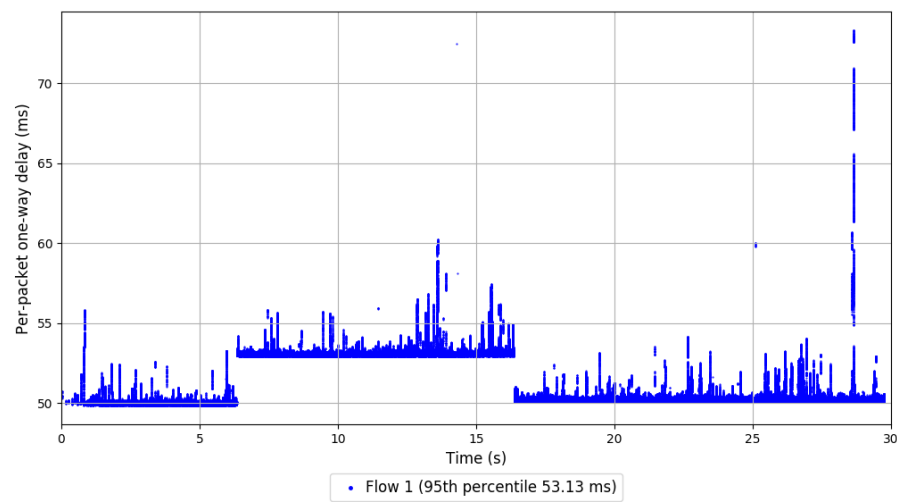
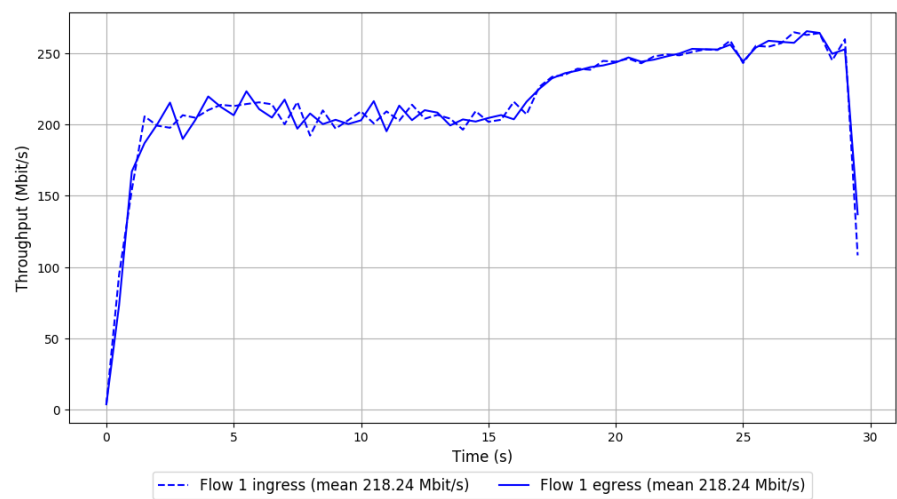
-- Flow 1:

Average throughput: 218.24 Mbit/s

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

Loss rate: 0.00%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-27 05:58:12

End at: 2018-03-27 05:58:42

Below is generated by plot.py at 2018-03-27 11:40:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.37 Mbit/s

95th percentile per-packet one-way delay: 56.152 ms

Loss rate: 0.01%

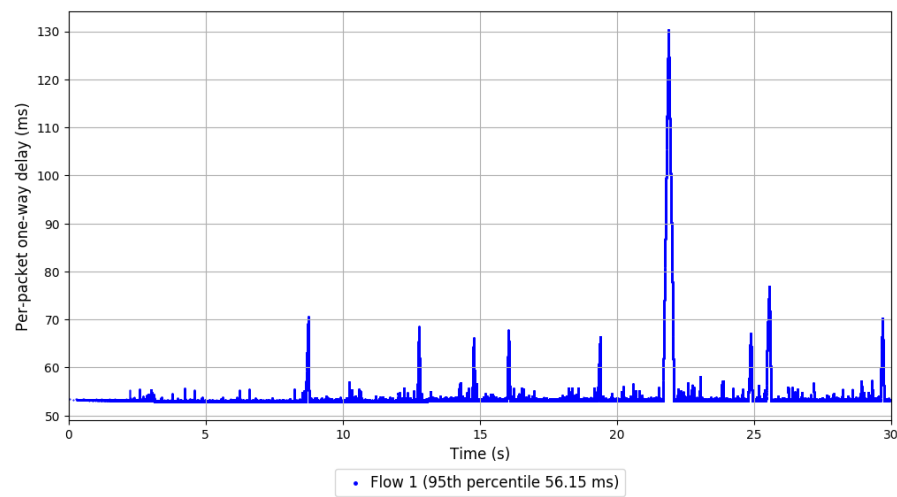
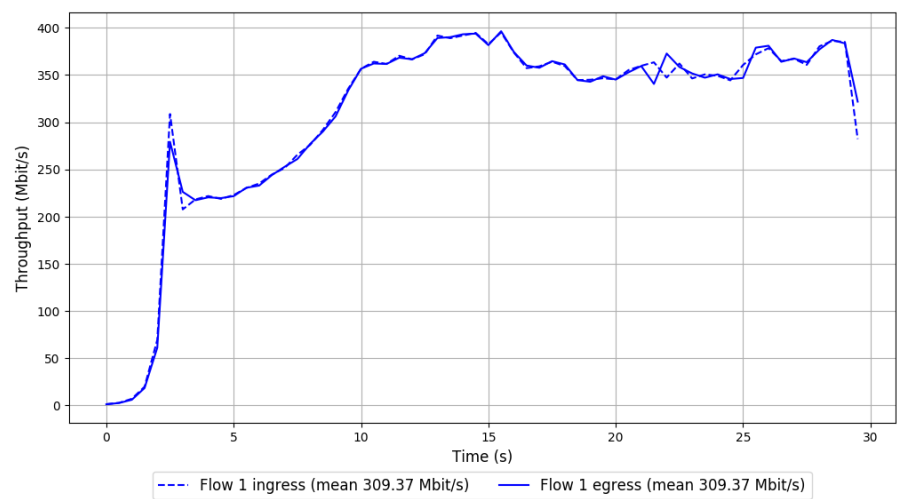
-- Flow 1:

Average throughput: 309.37 Mbit/s

95th percentile per-packet one-way delay: 56.152 ms

Loss rate: 0.01%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-03-27 06:12:41

End at: 2018-03-27 06:13:11

Below is generated by plot.py at 2018-03-27 11:40:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.79 Mbit/s

95th percentile per-packet one-way delay: 50.576 ms

Loss rate: 0.00%

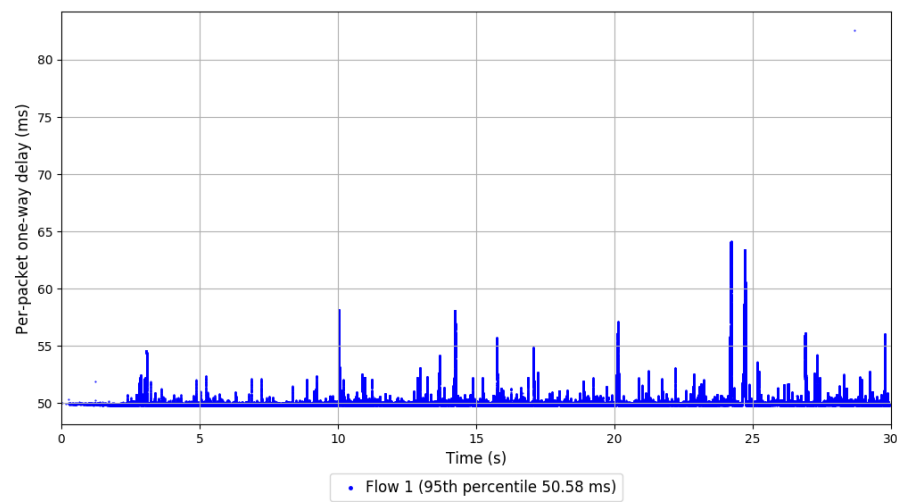
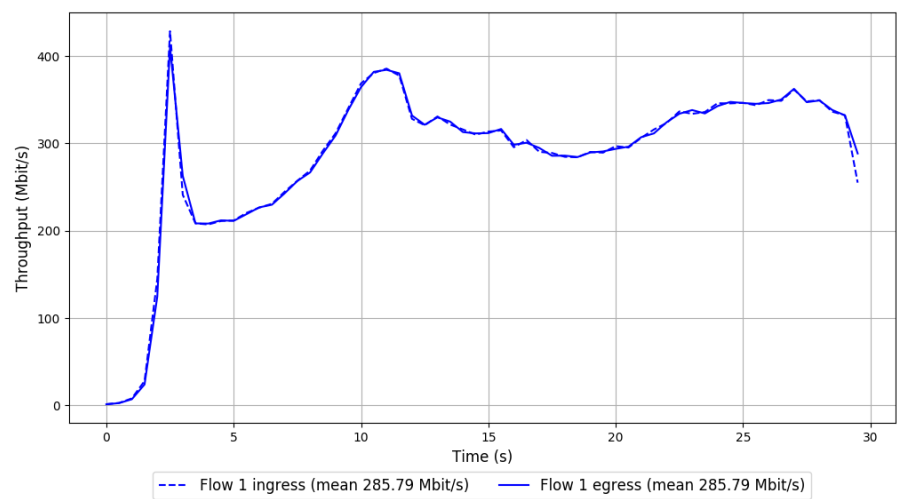
-- Flow 1:

Average throughput: 285.79 Mbit/s

95th percentile per-packet one-way delay: 50.576 ms

Loss rate: 0.00%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-27 06:26:56

End at: 2018-03-27 06:27:26

Below is generated by plot.py at 2018-03-27 11:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.46 Mbit/s

95th percentile per-packet one-way delay: 59.880 ms

Loss rate: 0.01%

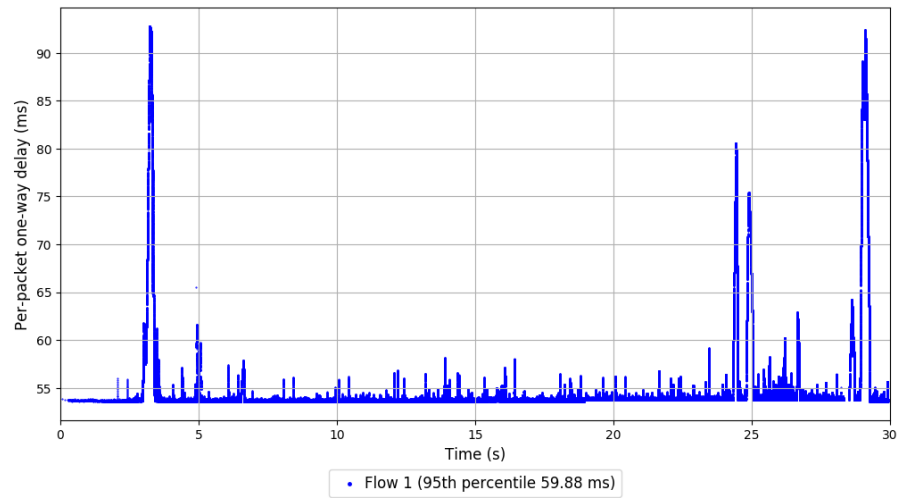
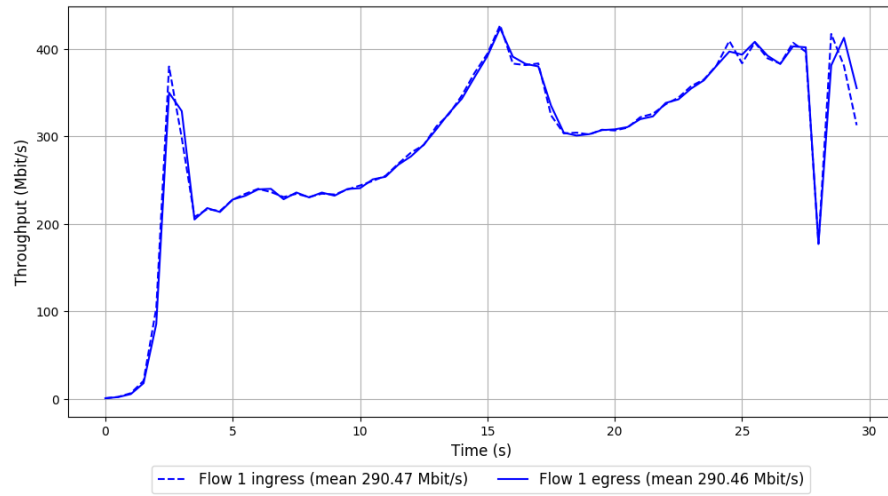
-- Flow 1:

Average throughput: 290.46 Mbit/s

95th percentile per-packet one-way delay: 59.880 ms

Loss rate: 0.01%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-27 06:41:20

End at: 2018-03-27 06:41:50

Below is generated by plot.py at 2018-03-27 11:44:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.39 Mbit/s

95th percentile per-packet one-way delay: 64.945 ms

Loss rate: 0.00%

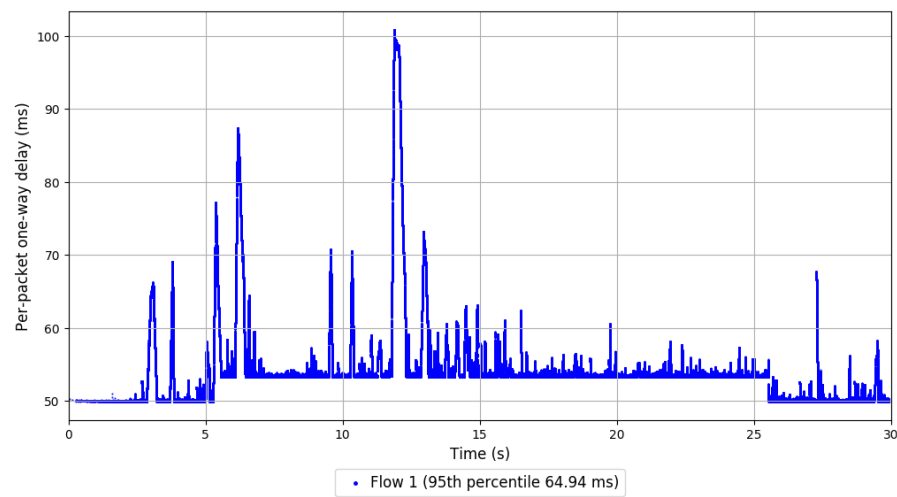
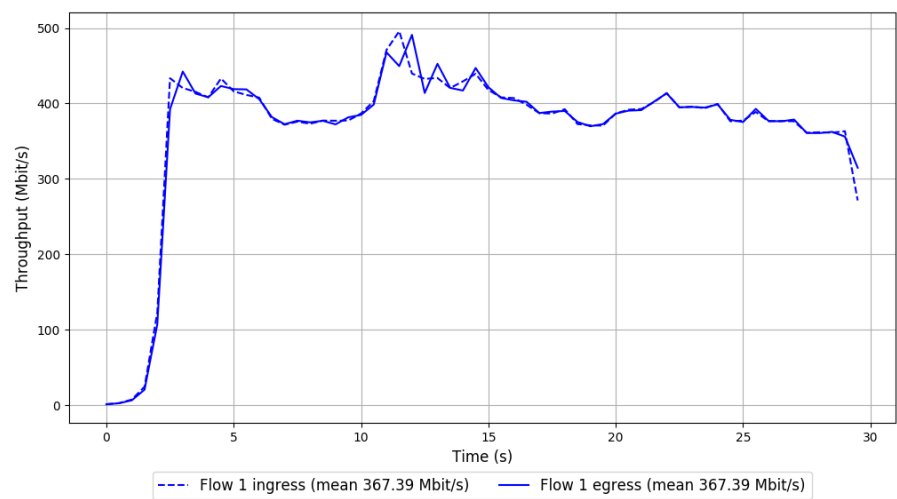
-- Flow 1:

Average throughput: 367.39 Mbit/s

95th percentile per-packet one-way delay: 64.945 ms

Loss rate: 0.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-27 06:56:00

End at: 2018-03-27 06:56:30

Below is generated by plot.py at 2018-03-27 11:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.42 Mbit/s

95th percentile per-packet one-way delay: 78.854 ms

Loss rate: 0.01%

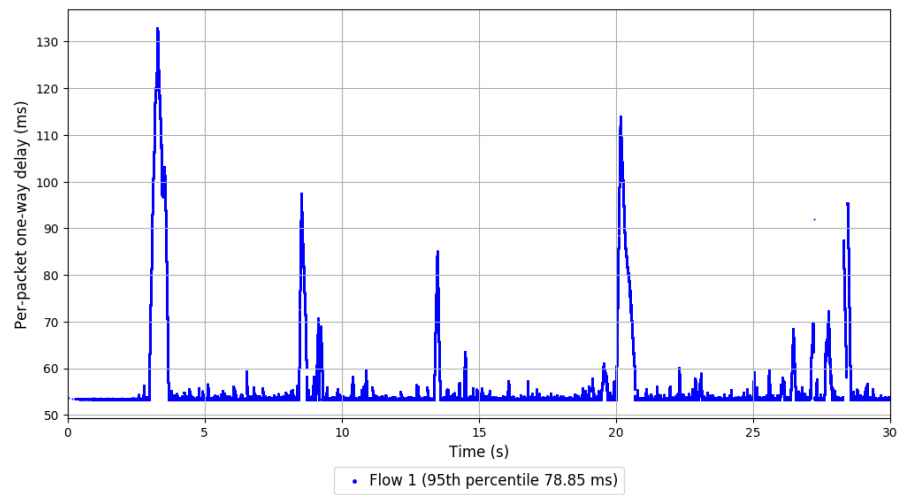
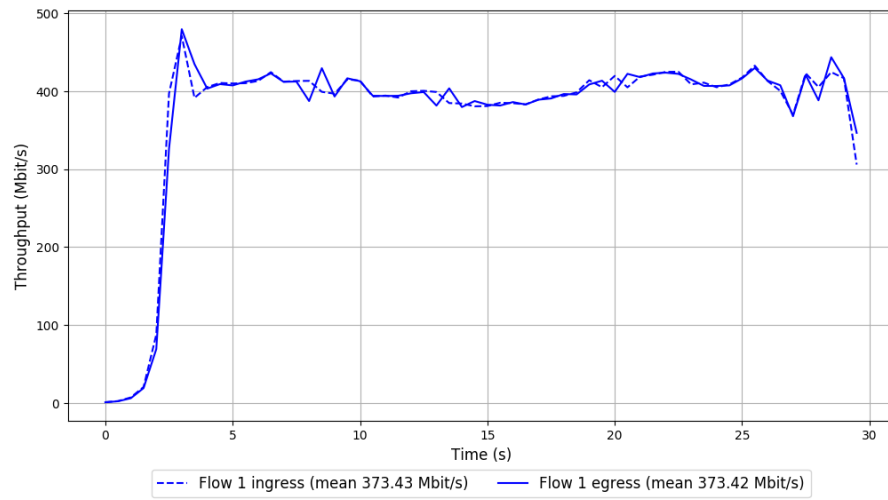
-- Flow 1:

Average throughput: 373.42 Mbit/s

95th percentile per-packet one-way delay: 78.854 ms

Loss rate: 0.01%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-27 07:10:15

End at: 2018-03-27 07:10:45

Below is generated by plot.py at 2018-03-27 11:44:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.01 Mbit/s

95th percentile per-packet one-way delay: 119.049 ms

Loss rate: 0.11%

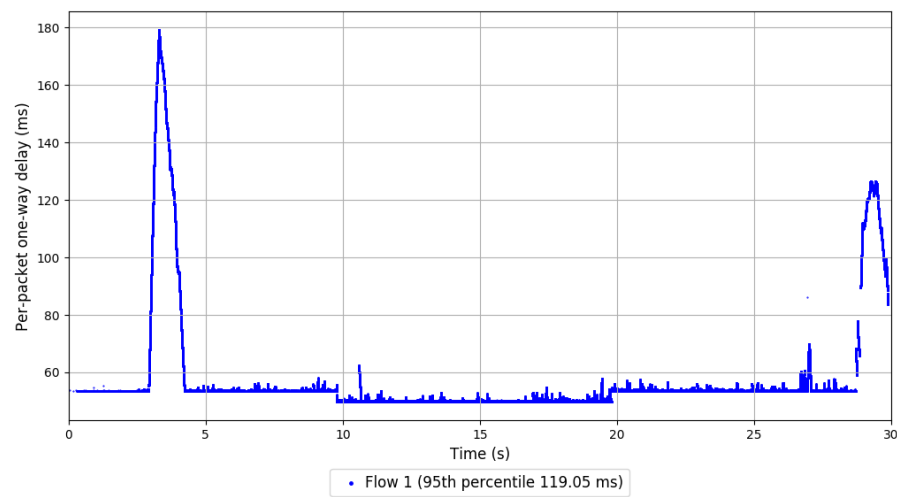
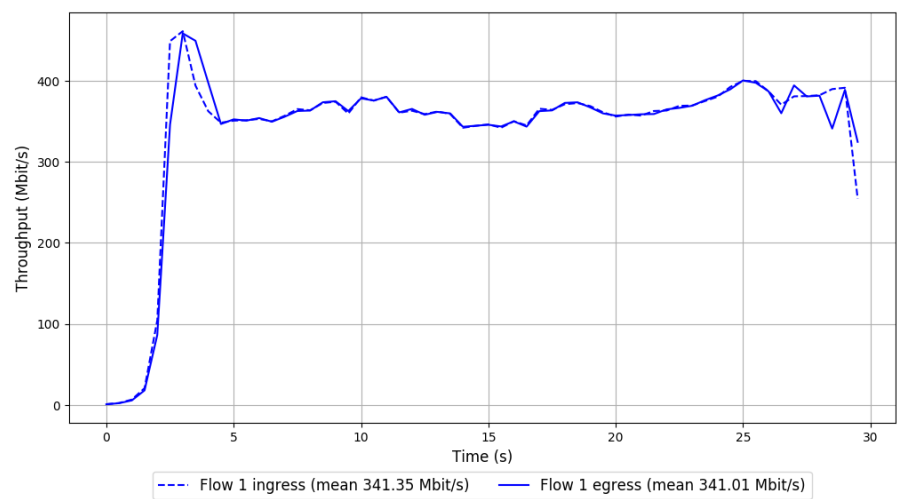
-- Flow 1:

Average throughput: 341.01 Mbit/s

95th percentile per-packet one-way delay: 119.049 ms

Loss rate: 0.11%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 07:24:47

End at: 2018-03-27 07:25:17

Below is generated by plot.py at 2018-03-27 11:47:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.02 Mbit/s

95th percentile per-packet one-way delay: 54.521 ms

Loss rate: 0.01%

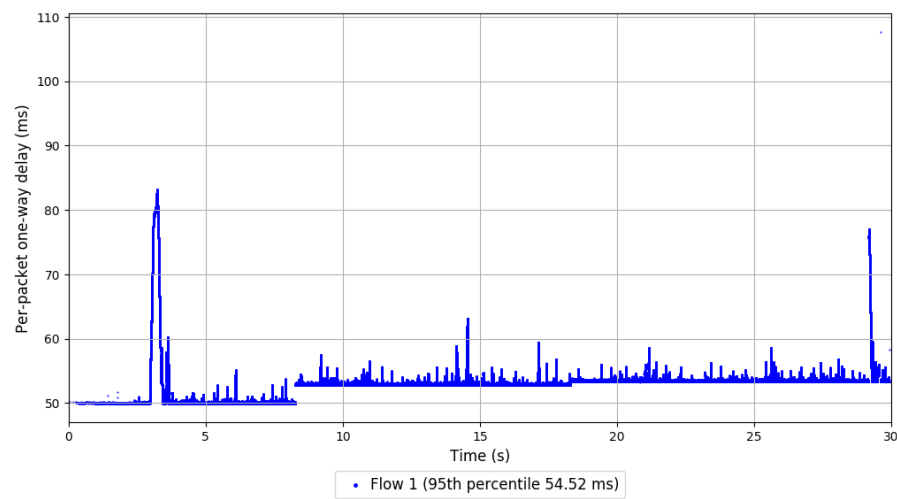
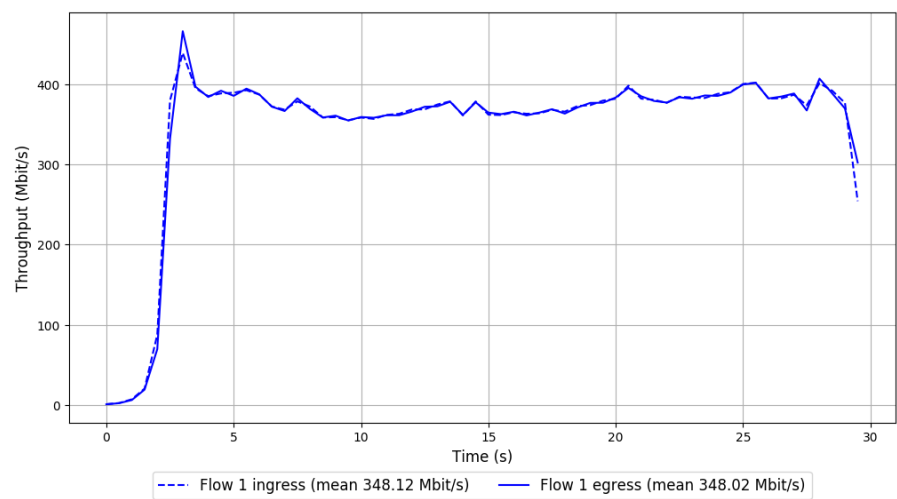
-- Flow 1:

Average throughput: 348.02 Mbit/s

95th percentile per-packet one-way delay: 54.521 ms

Loss rate: 0.01%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 07:39:26

End at: 2018-03-27 07:39:56

Below is generated by plot.py at 2018-03-27 11:47:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 320.89 Mbit/s

95th percentile per-packet one-way delay: 55.410 ms

Loss rate: 0.01%

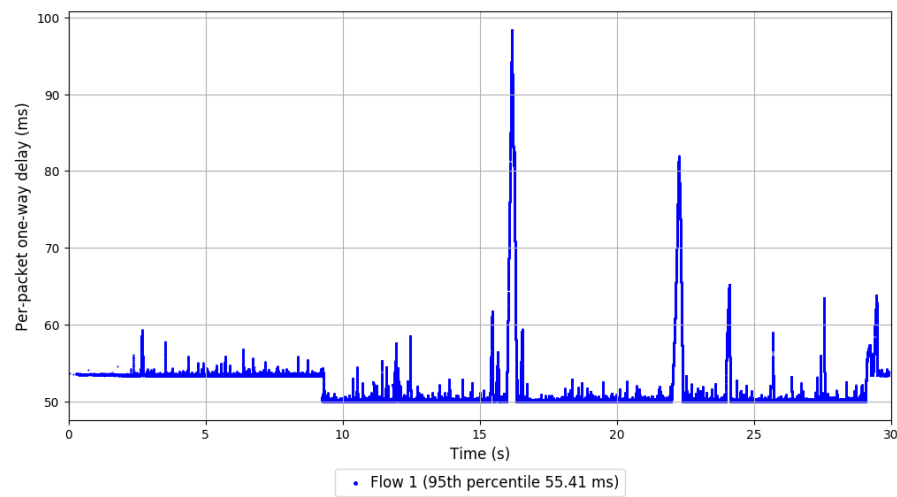
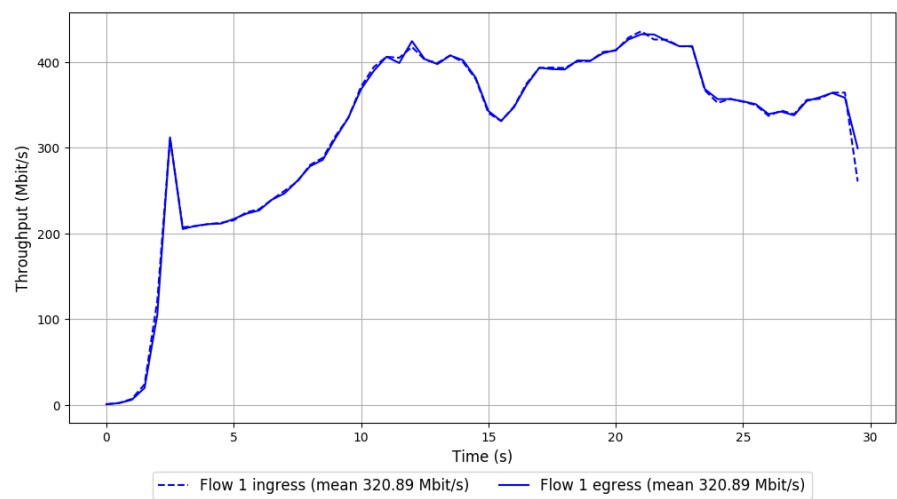
-- Flow 1:

Average throughput: 320.89 Mbit/s

95th percentile per-packet one-way delay: 55.410 ms

Loss rate: 0.01%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 07:53:48

End at: 2018-03-27 07:54:18

Below is generated by plot.py at 2018-03-27 11:47:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.52 Mbit/s

95th percentile per-packet one-way delay: 69.879 ms

Loss rate: 0.01%

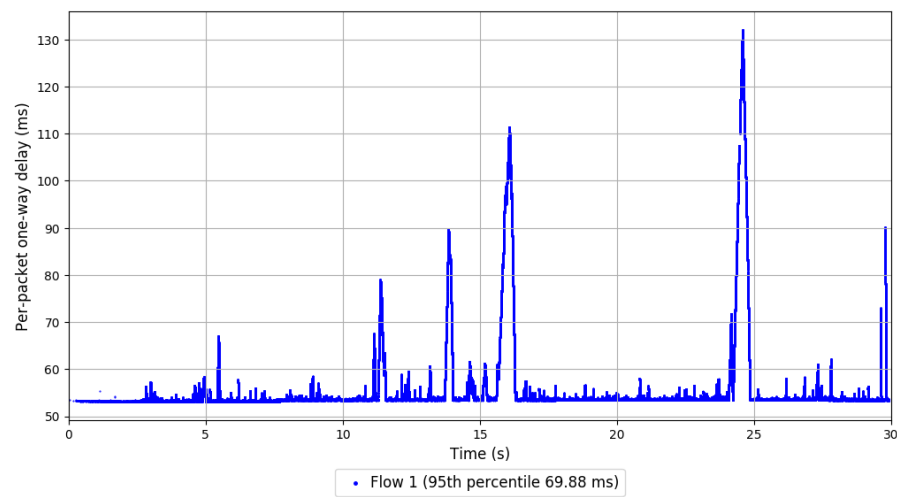
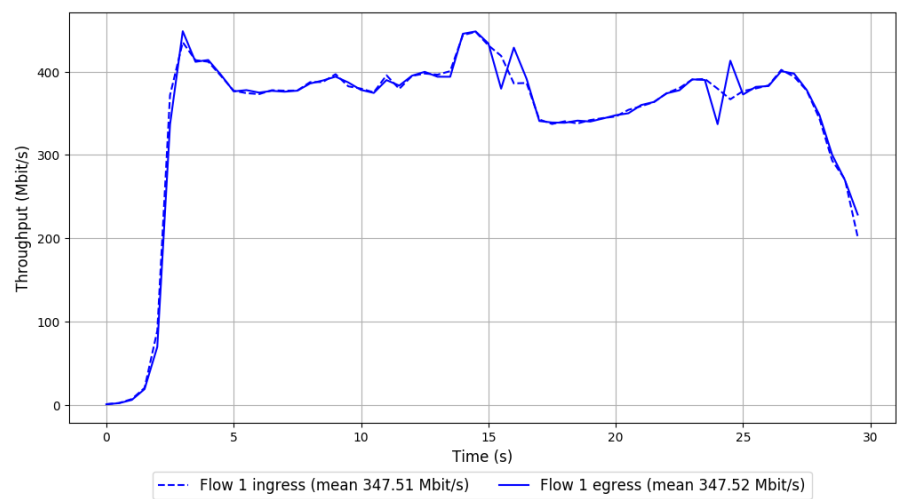
-- Flow 1:

Average throughput: 347.52 Mbit/s

95th percentile per-packet one-way delay: 69.879 ms

Loss rate: 0.01%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 08:08:22

End at: 2018-03-27 08:08:52

Below is generated by plot.py at 2018-03-27 11:47:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.79 Mbit/s

95th percentile per-packet one-way delay: 72.084 ms

Loss rate: 0.00%

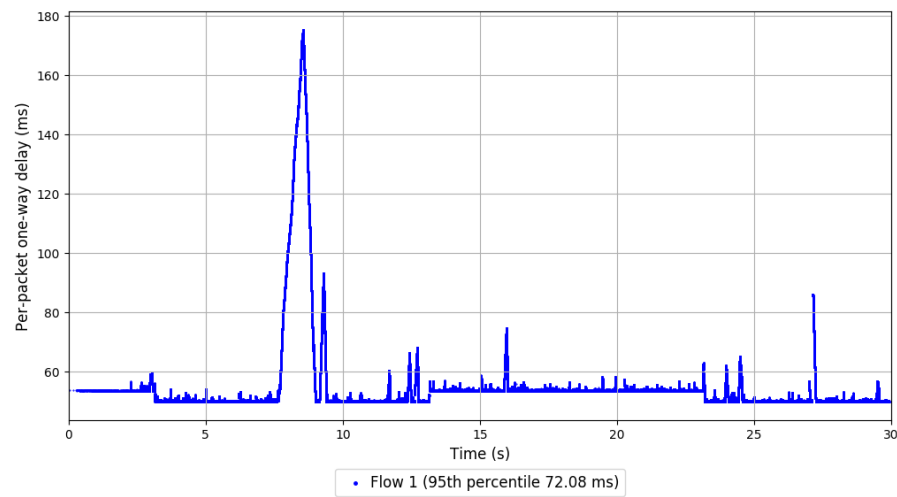
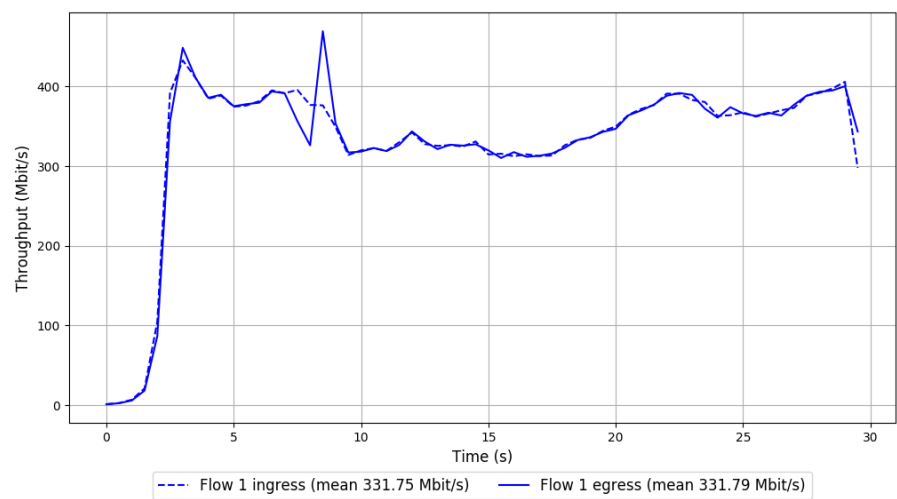
-- Flow 1:

Average throughput: 331.79 Mbit/s

95th percentile per-packet one-way delay: 72.084 ms

Loss rate: 0.00%

Run 10: Report of Vivace-latency — Data Link

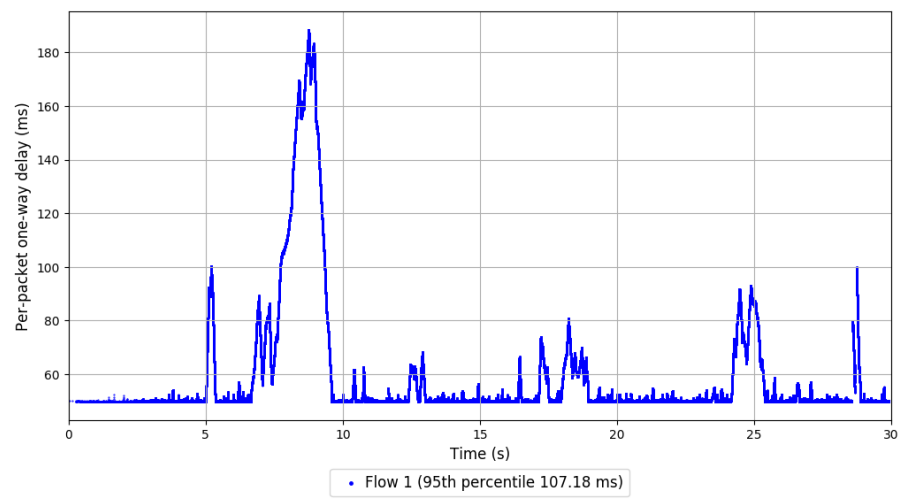
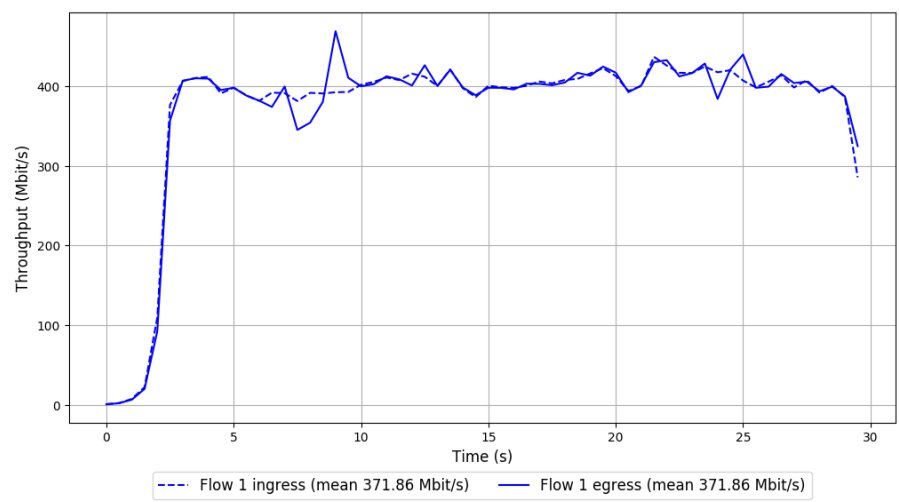


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-27 06:01:21
End at: 2018-03-27 06:01:51

# Below is generated by plot.py at 2018-03-27 11:51:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 371.86 Mbit/s
95th percentile per-packet one-way delay: 107.181 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 371.86 Mbit/s
95th percentile per-packet one-way delay: 107.181 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-loss — Data Link

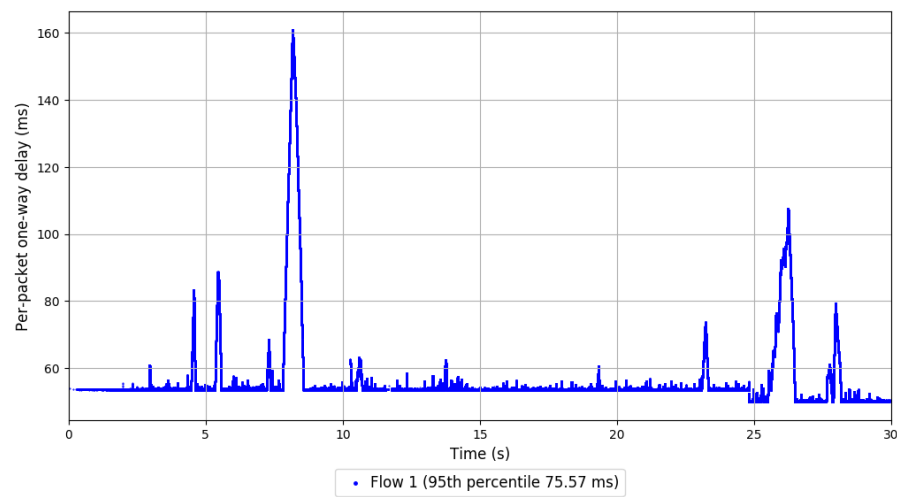
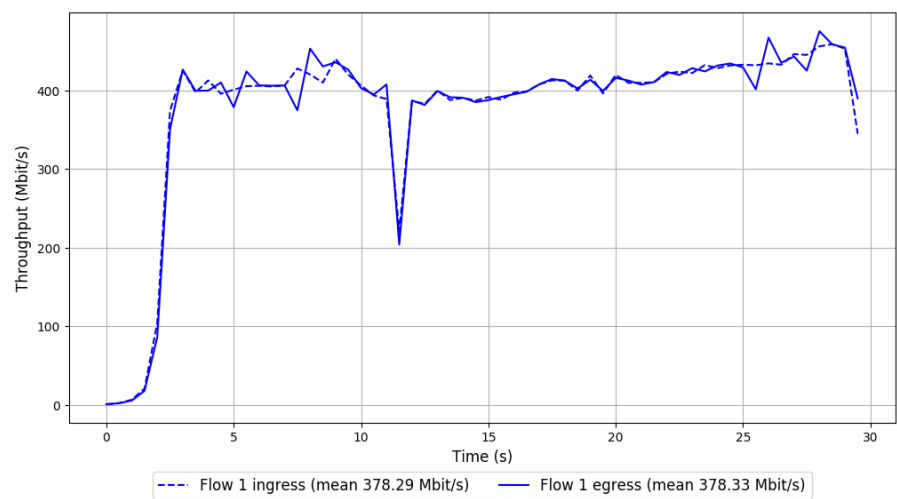


```
Run 2: Statistics of Vivace-loss

Start at: 2018-03-27 06:15:50
End at: 2018-03-27 06:16:20

# Below is generated by plot.py at 2018-03-27 11:52:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.33 Mbit/s
95th percentile per-packet one-way delay: 75.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 378.33 Mbit/s
95th percentile per-packet one-way delay: 75.569 ms
Loss rate: 0.00%
```

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-27 06:30:04

End at: 2018-03-27 06:30:34

Below is generated by plot.py at 2018-03-27 11:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.75 Mbit/s

95th percentile per-packet one-way delay: 129.310 ms

Loss rate: 0.72%

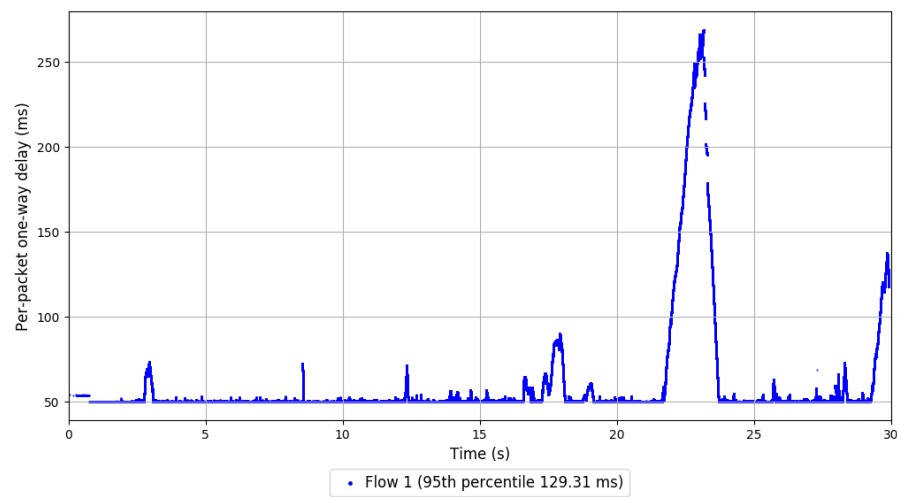
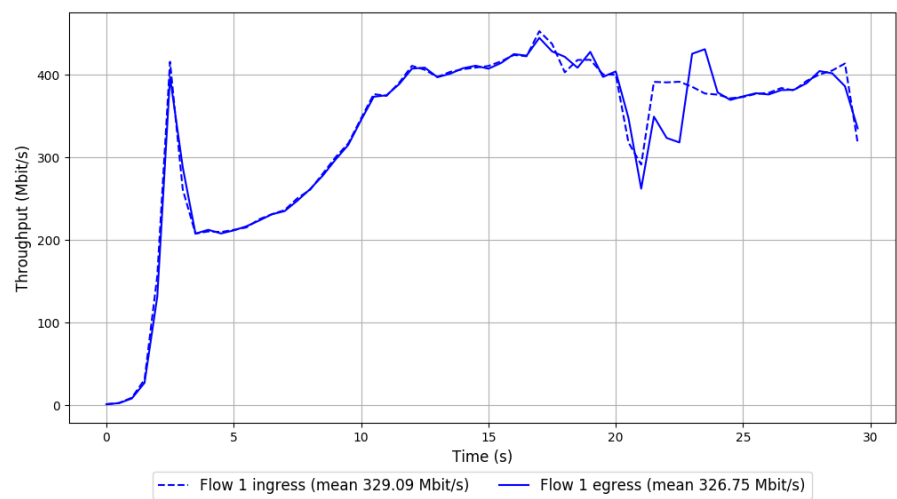
-- Flow 1:

Average throughput: 326.75 Mbit/s

95th percentile per-packet one-way delay: 129.310 ms

Loss rate: 0.72%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-27 06:44:37

End at: 2018-03-27 06:45:07

Below is generated by plot.py at 2018-03-27 11:53:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.87 Mbit/s

95th percentile per-packet one-way delay: 68.476 ms

Loss rate: 0.00%

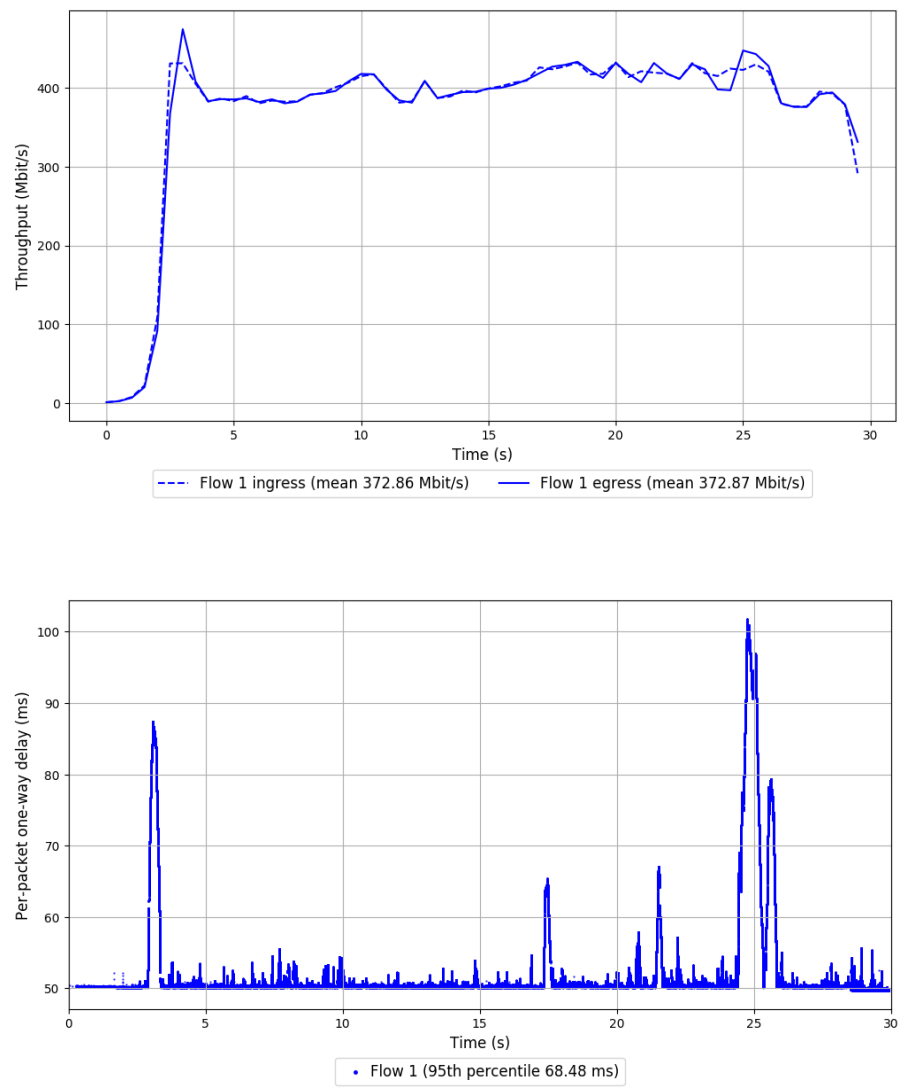
-- Flow 1:

Average throughput: 372.87 Mbit/s

95th percentile per-packet one-way delay: 68.476 ms

Loss rate: 0.00%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-27 06:59:12

End at: 2018-03-27 06:59:42

Below is generated by plot.py at 2018-03-27 11:54:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.99 Mbit/s

95th percentile per-packet one-way delay: 152.371 ms

Loss rate: 0.07%

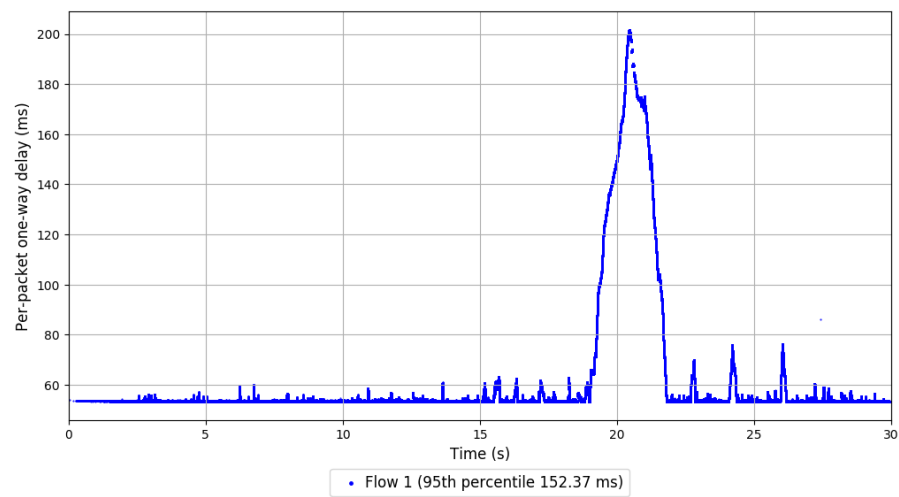
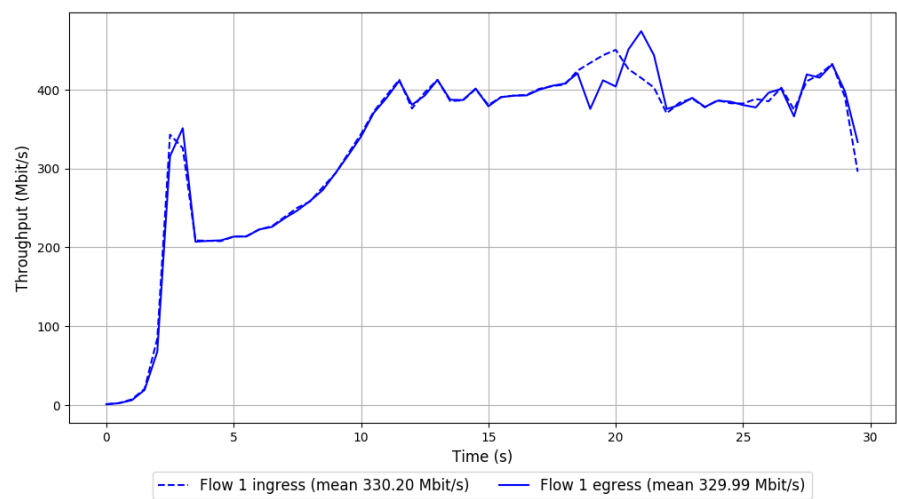
-- Flow 1:

Average throughput: 329.99 Mbit/s

95th percentile per-packet one-way delay: 152.371 ms

Loss rate: 0.07%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-27 07:13:25

End at: 2018-03-27 07:13:55

Below is generated by plot.py at 2018-03-27 11:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 59.017 ms

Loss rate: 0.01%

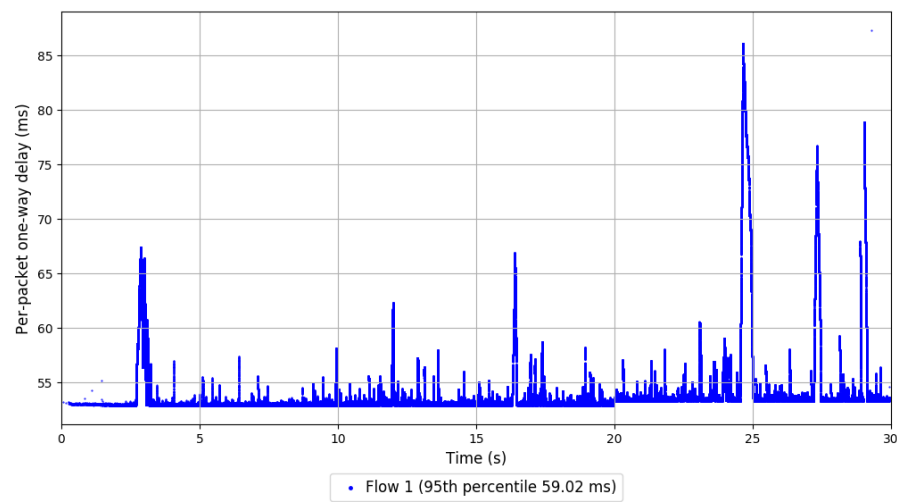
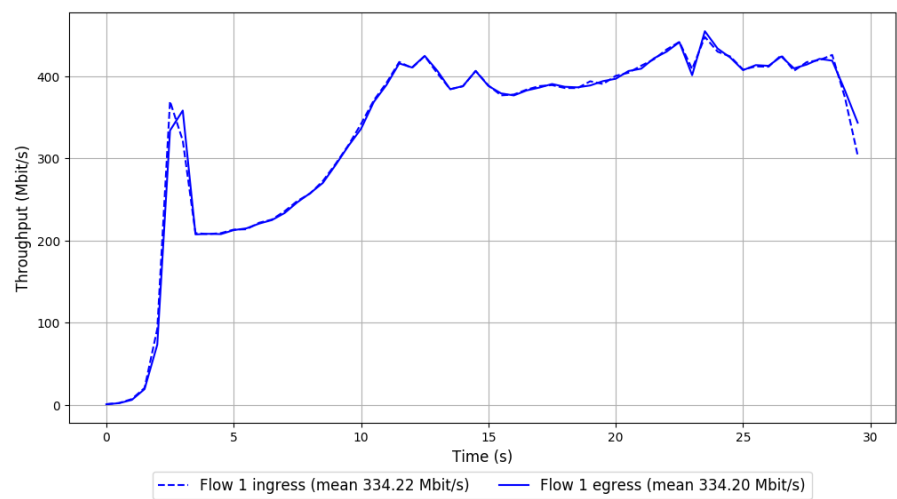
-- Flow 1:

Average throughput: 334.20 Mbit/s

95th percentile per-packet one-way delay: 59.017 ms

Loss rate: 0.01%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 07:28:01

End at: 2018-03-27 07:28:31

Below is generated by plot.py at 2018-03-27 11:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.03 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 0.10%

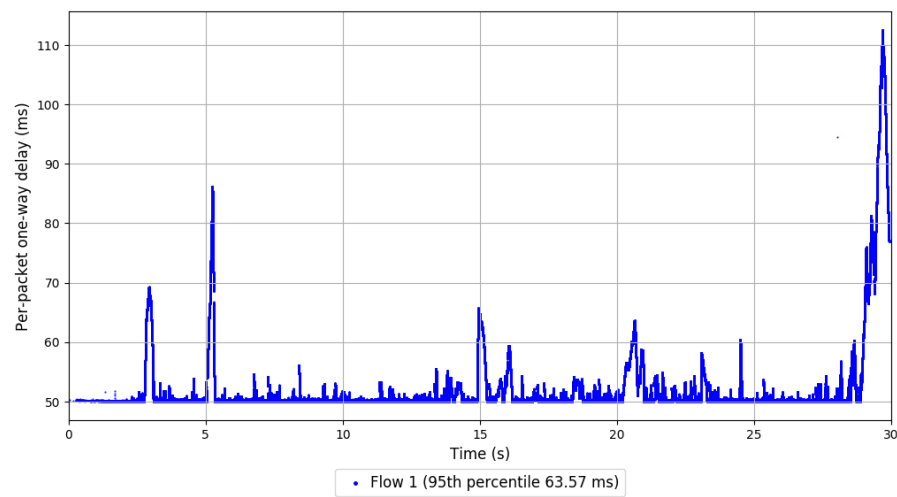
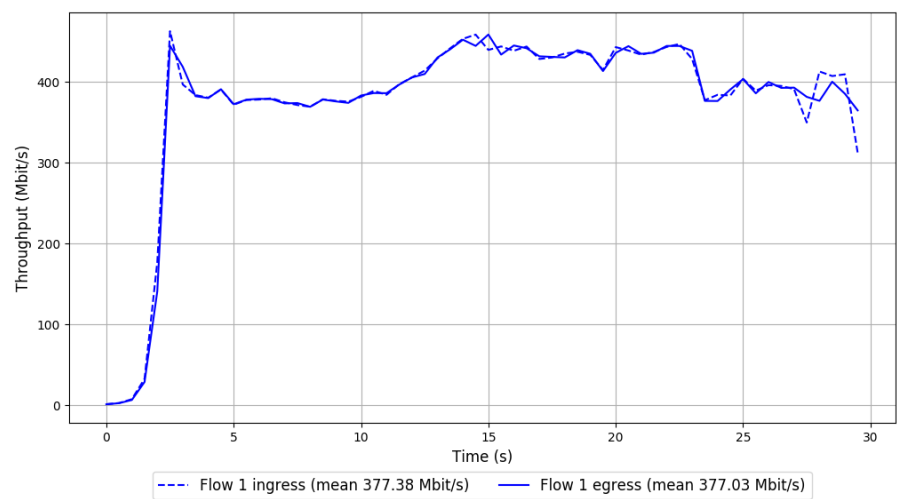
-- Flow 1:

Average throughput: 377.03 Mbit/s

95th percentile per-packet one-way delay: 63.572 ms

Loss rate: 0.10%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 07:42:38

End at: 2018-03-27 07:43:08

Below is generated by plot.py at 2018-03-27 11:56:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.45 Mbit/s

95th percentile per-packet one-way delay: 179.272 ms

Loss rate: 1.56%

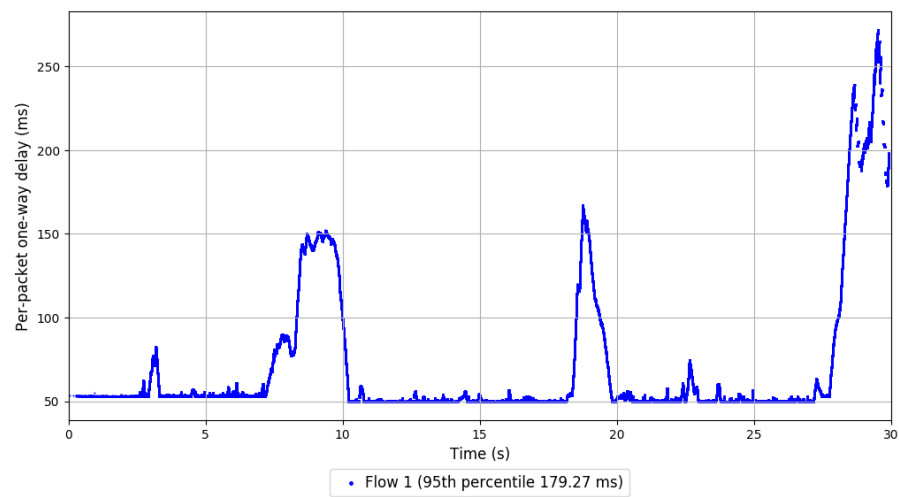
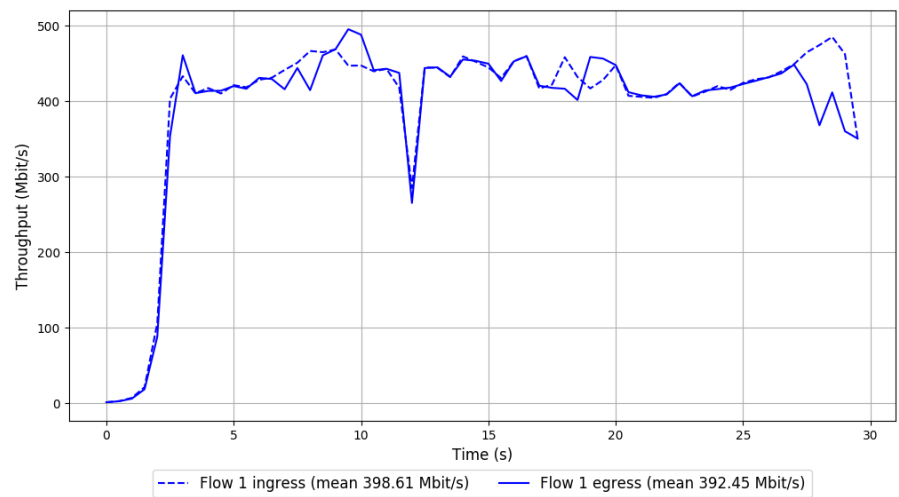
-- Flow 1:

Average throughput: 392.45 Mbit/s

95th percentile per-packet one-way delay: 179.272 ms

Loss rate: 1.56%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 07:57:01

End at: 2018-03-27 07:57:31

Below is generated by plot.py at 2018-03-27 11:59:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.45 Mbit/s

95th percentile per-packet one-way delay: 119.658 ms

Loss rate: 0.16%

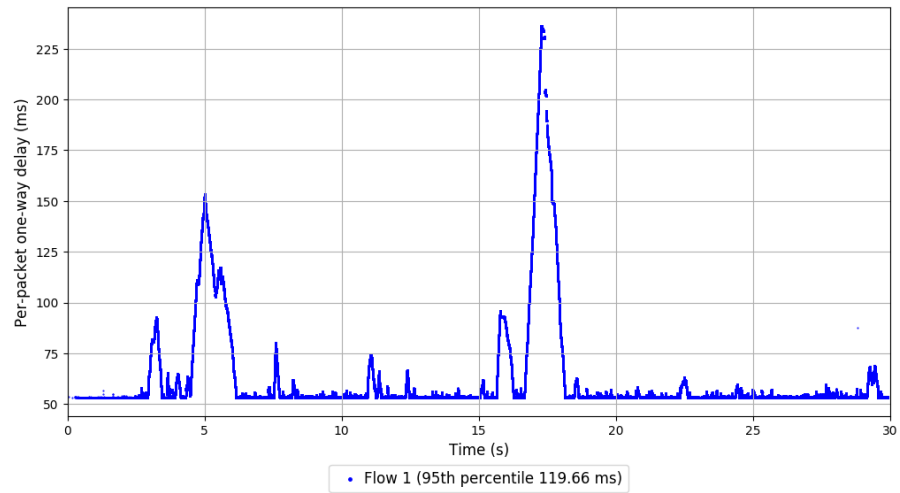
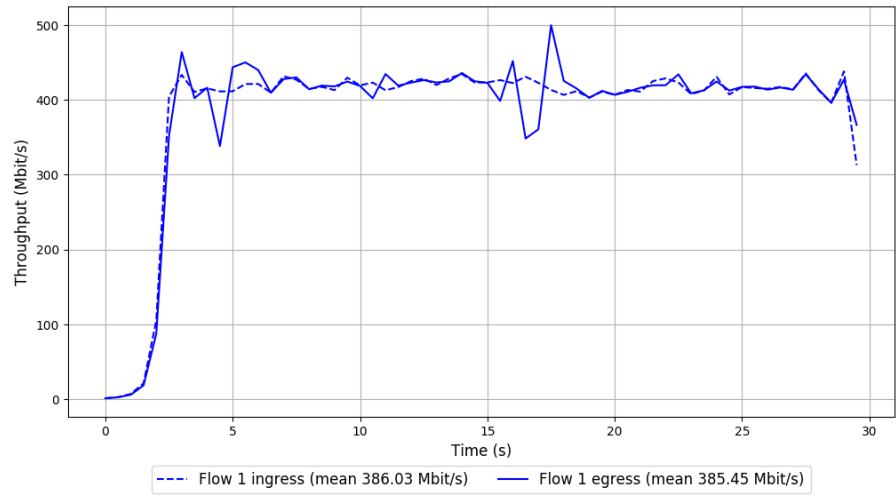
-- Flow 1:

Average throughput: 385.45 Mbit/s

95th percentile per-packet one-way delay: 119.658 ms

Loss rate: 0.16%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 08:11:34

End at: 2018-03-27 08:12:04

Below is generated by plot.py at 2018-03-27 12:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.51 Mbit/s

95th percentile per-packet one-way delay: 199.594 ms

Loss rate: 3.31%

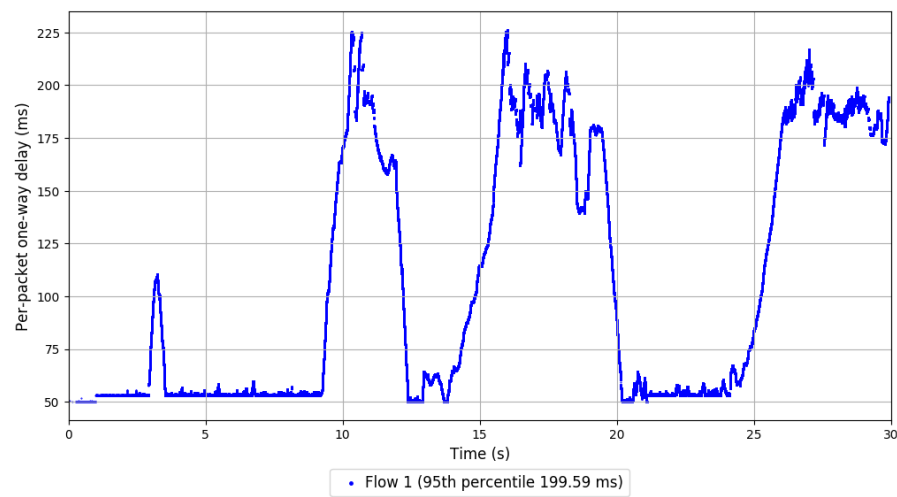
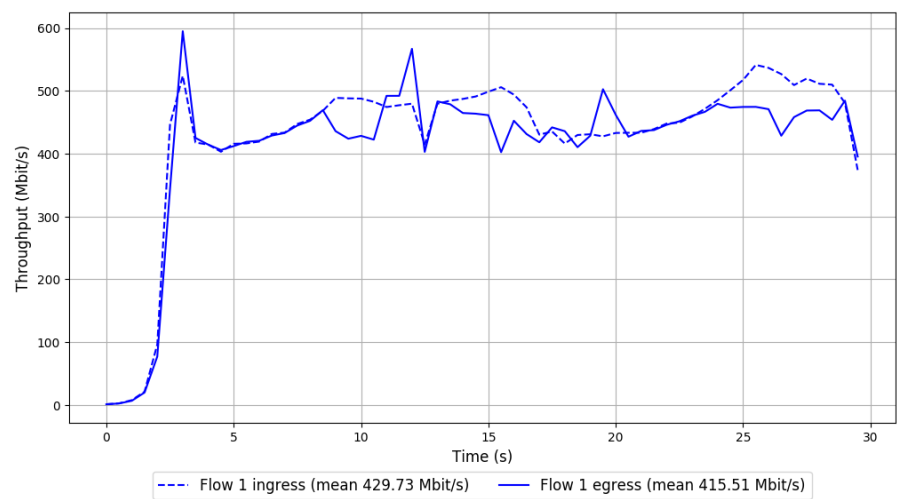
-- Flow 1:

Average throughput: 415.51 Mbit/s

95th percentile per-packet one-way delay: 199.594 ms

Loss rate: 3.31%

Run 10: Report of Vivace-loss — Data Link

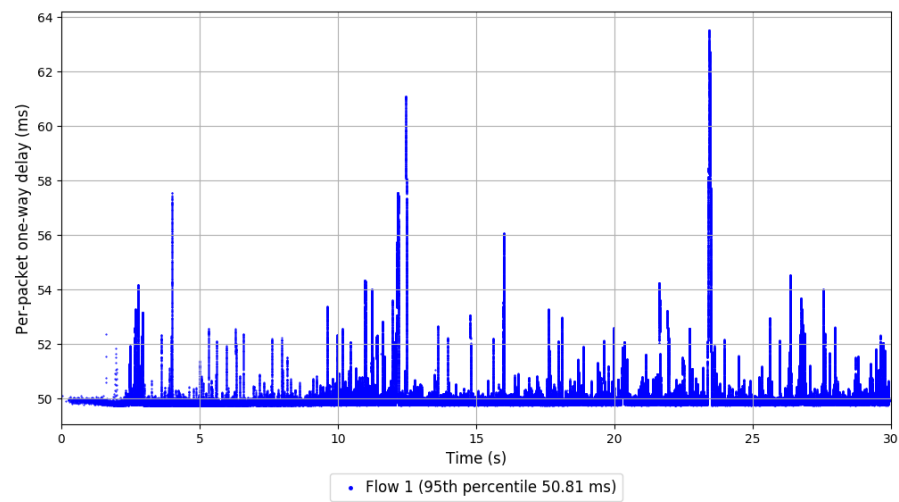
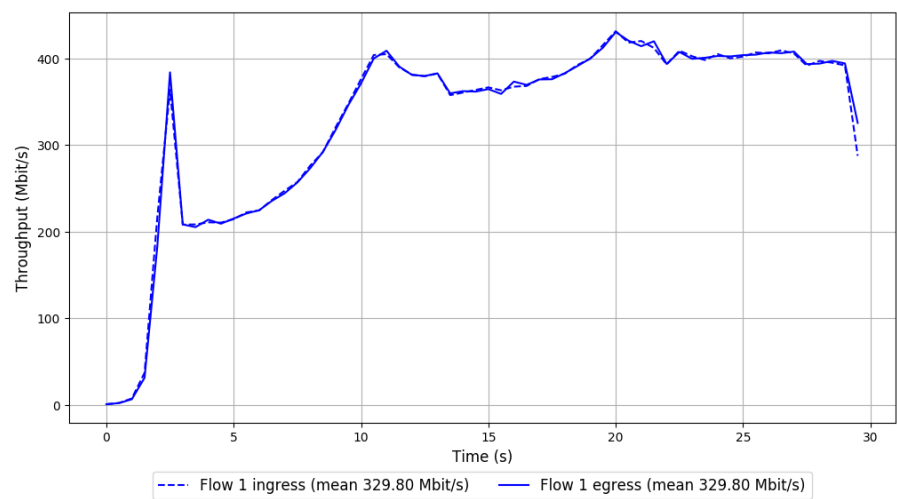


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-27 06:00:23
End at: 2018-03-27 06:00:53

# Below is generated by plot.py at 2018-03-27 12:01:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 329.80 Mbit/s
95th percentile per-packet one-way delay: 50.806 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 329.80 Mbit/s
95th percentile per-packet one-way delay: 50.806 ms
Loss rate: 0.00%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-03-27 06:14:50

End at: 2018-03-27 06:15:20

Below is generated by plot.py at 2018-03-27 12:02:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.02 Mbit/s

95th percentile per-packet one-way delay: 107.554 ms

Loss rate: 0.01%

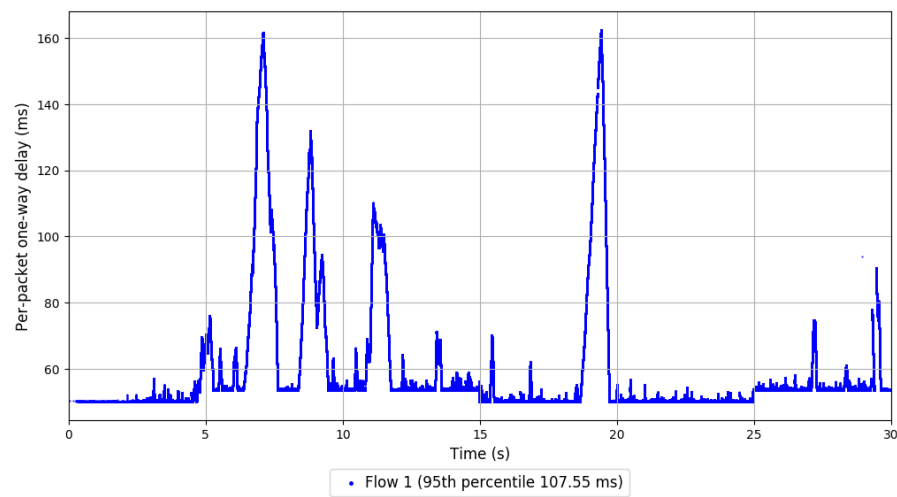
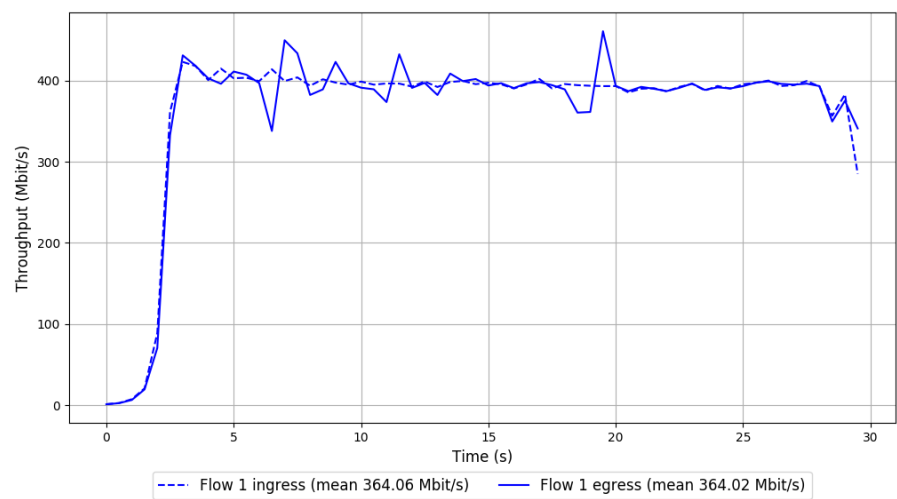
-- Flow 1:

Average throughput: 364.02 Mbit/s

95th percentile per-packet one-way delay: 107.554 ms

Loss rate: 0.01%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-27 06:29:05

End at: 2018-03-27 06:29:35

Below is generated by plot.py at 2018-03-27 12:02:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.24 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.01%

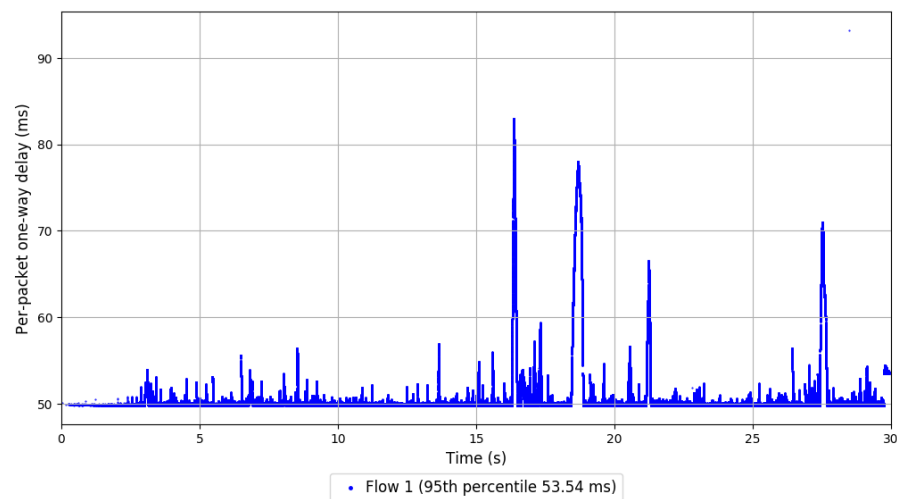
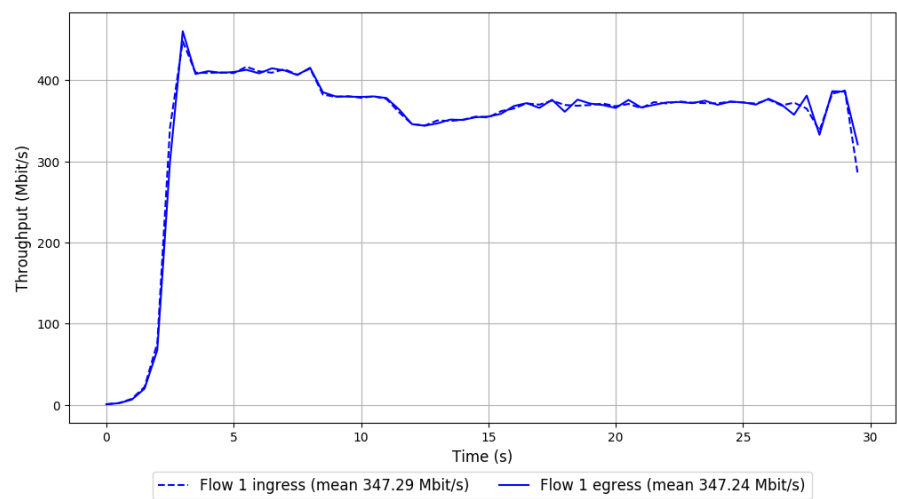
-- Flow 1:

Average throughput: 347.24 Mbit/s

95th percentile per-packet one-way delay: 53.541 ms

Loss rate: 0.01%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-27 06:43:34

End at: 2018-03-27 06:44:04

Below is generated by plot.py at 2018-03-27 12:03:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.52 Mbit/s

95th percentile per-packet one-way delay: 76.701 ms

Loss rate: 0.00%

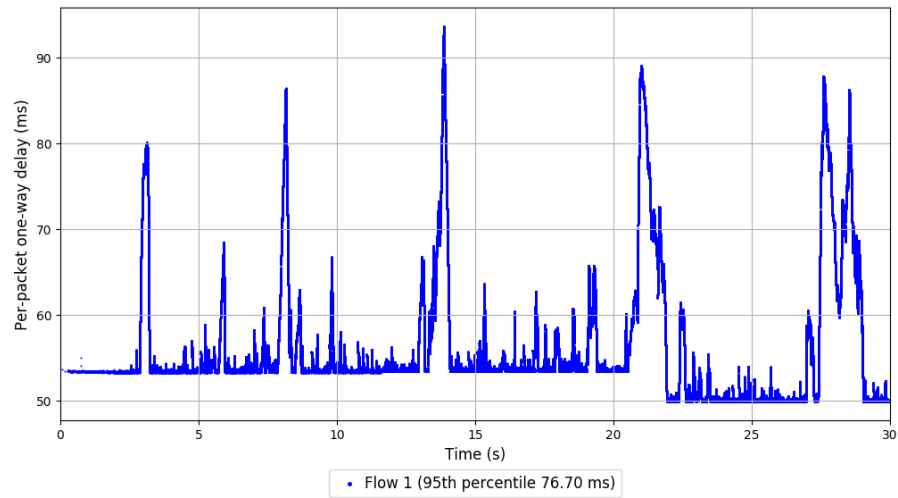
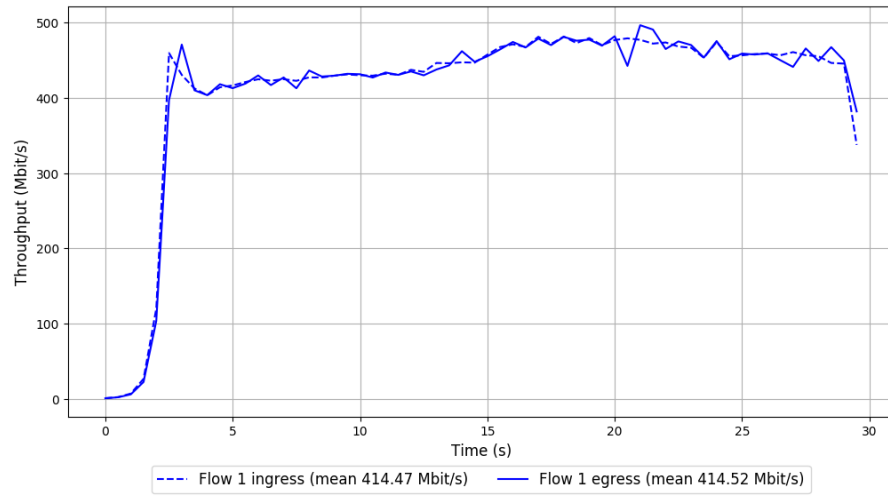
-- Flow 1:

Average throughput: 414.52 Mbit/s

95th percentile per-packet one-way delay: 76.701 ms

Loss rate: 0.00%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-27 06:58:14

End at: 2018-03-27 06:58:44

Below is generated by plot.py at 2018-03-27 12:03:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.07 Mbit/s

95th percentile per-packet one-way delay: 55.078 ms

Loss rate: 0.01%

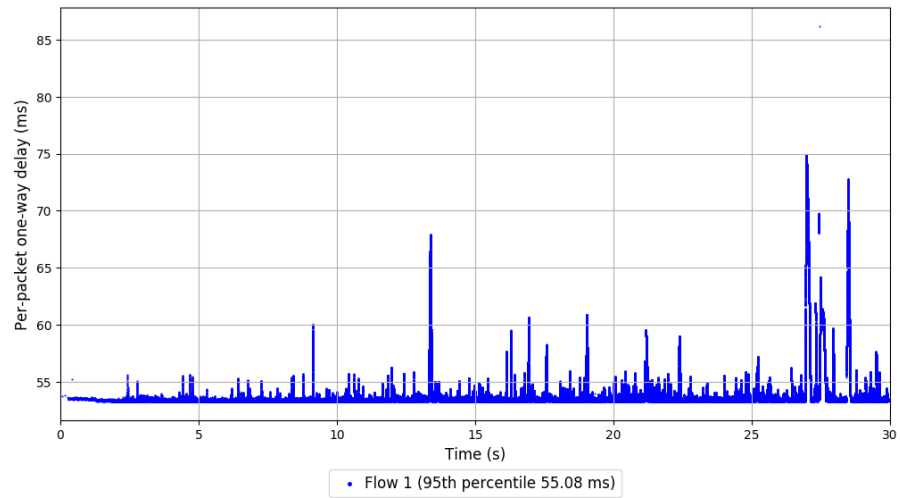
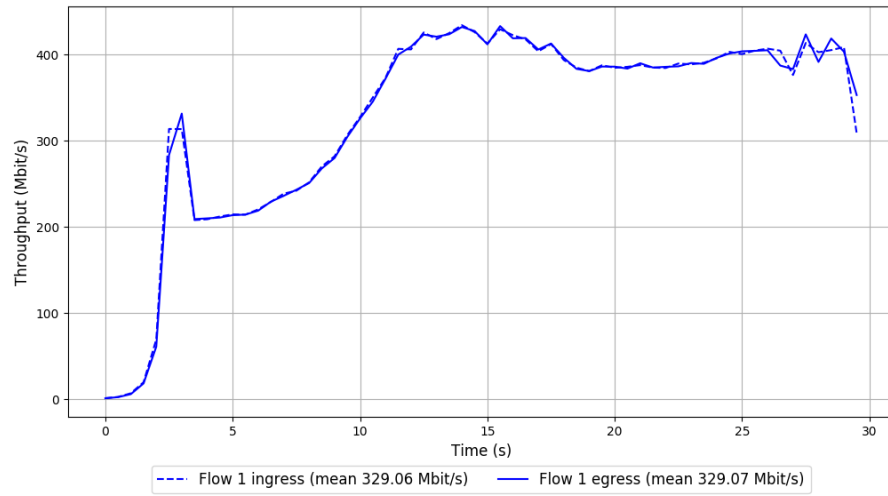
-- Flow 1:

Average throughput: 329.07 Mbit/s

95th percentile per-packet one-way delay: 55.078 ms

Loss rate: 0.01%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-27 07:12:28

End at: 2018-03-27 07:12:58

Below is generated by plot.py at 2018-03-27 12:03:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.73 Mbit/s

95th percentile per-packet one-way delay: 54.394 ms

Loss rate: 0.01%

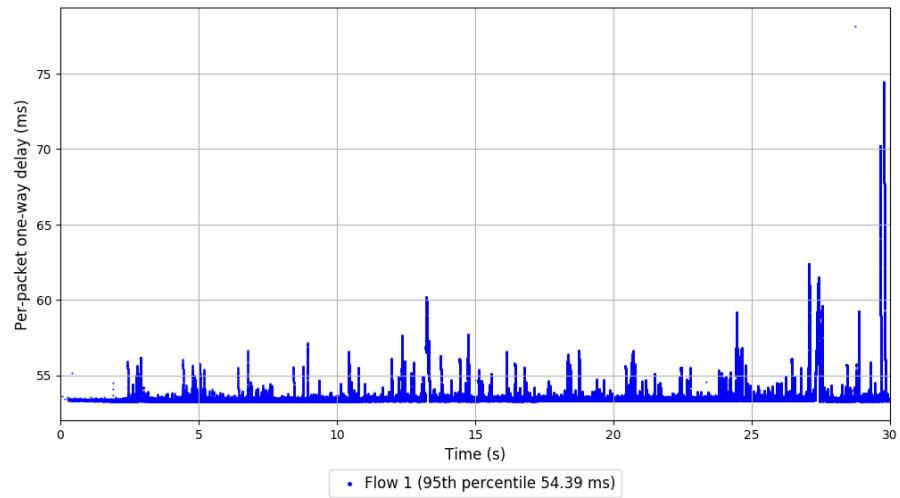
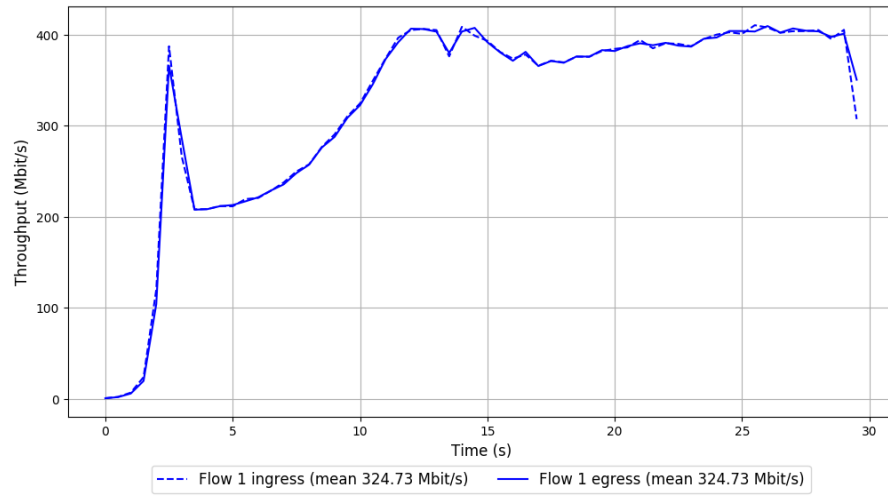
-- Flow 1:

Average throughput: 324.73 Mbit/s

95th percentile per-packet one-way delay: 54.394 ms

Loss rate: 0.01%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 07:27:00

End at: 2018-03-27 07:27:30

Below is generated by plot.py at 2018-03-27 12:06:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.13 Mbit/s

95th percentile per-packet one-way delay: 121.688 ms

Loss rate: 0.88%

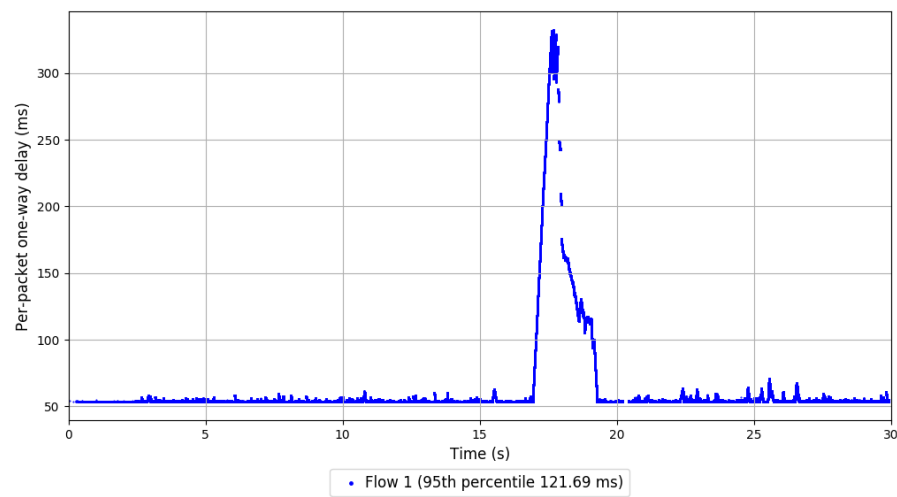
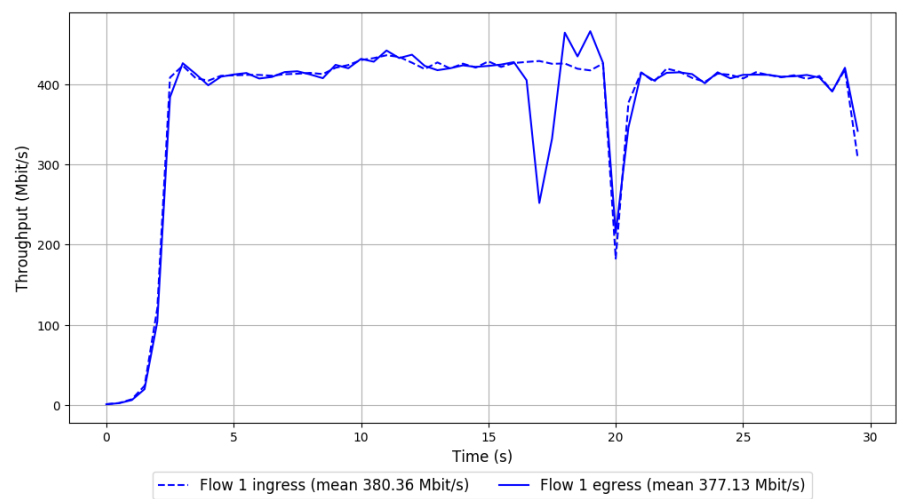
-- Flow 1:

Average throughput: 377.13 Mbit/s

95th percentile per-packet one-way delay: 121.688 ms

Loss rate: 0.88%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 07:41:37

End at: 2018-03-27 07:42:07

Below is generated by plot.py at 2018-03-27 12:06:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 372.66 Mbit/s

95th percentile per-packet one-way delay: 117.115 ms

Loss rate: 0.05%

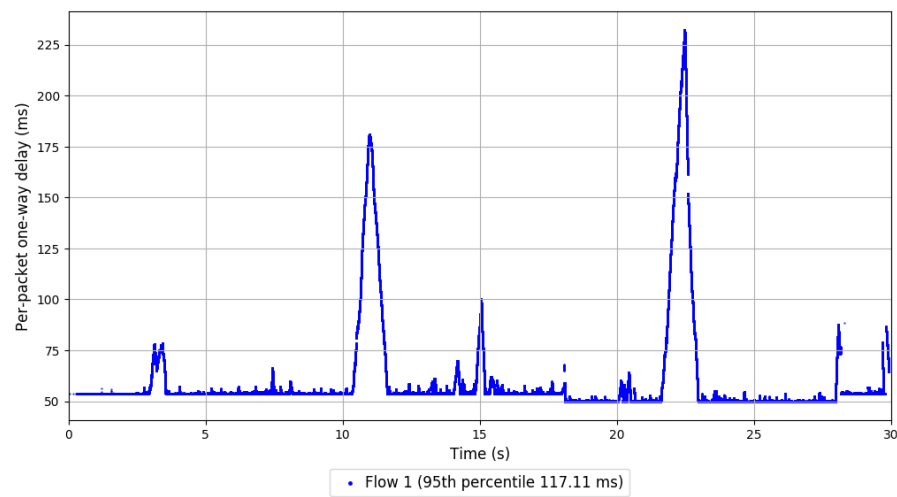
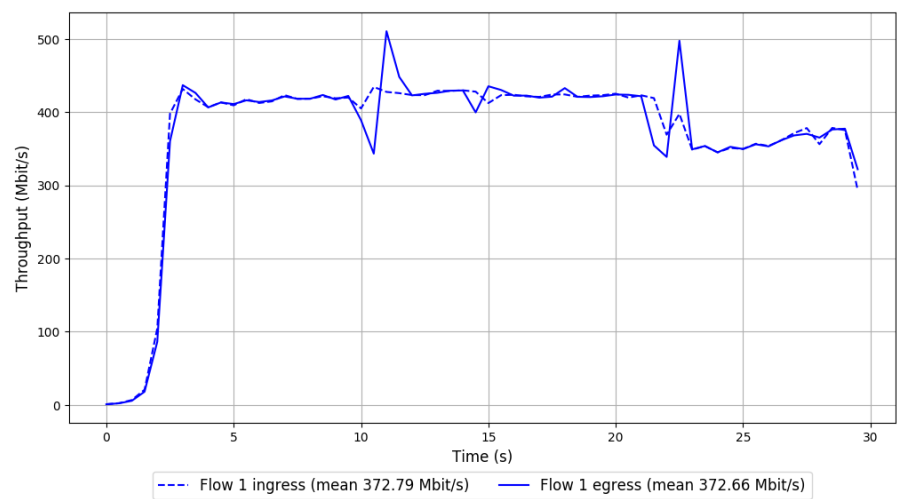
-- Flow 1:

Average throughput: 372.66 Mbit/s

95th percentile per-packet one-way delay: 117.115 ms

Loss rate: 0.05%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 07:56:00

End at: 2018-03-27 07:56:31

Below is generated by plot.py at 2018-03-27 12:06:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.86 Mbit/s

95th percentile per-packet one-way delay: 157.013 ms

Loss rate: 0.09%

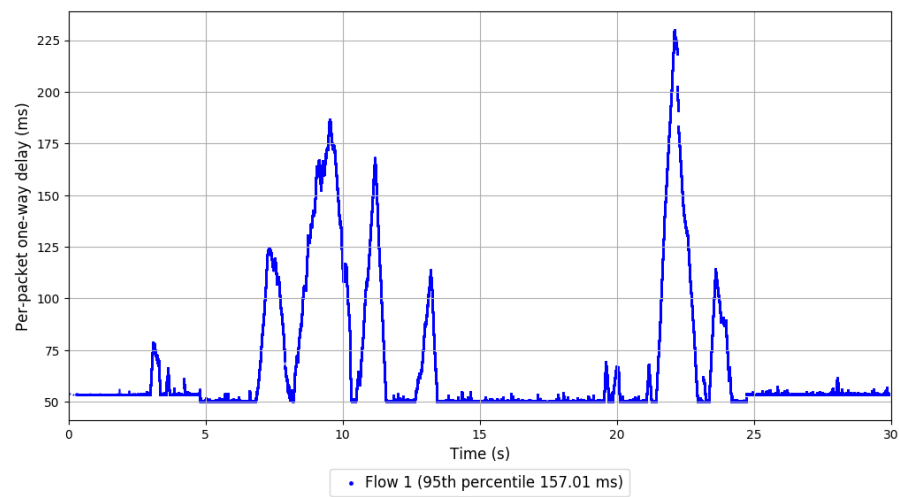
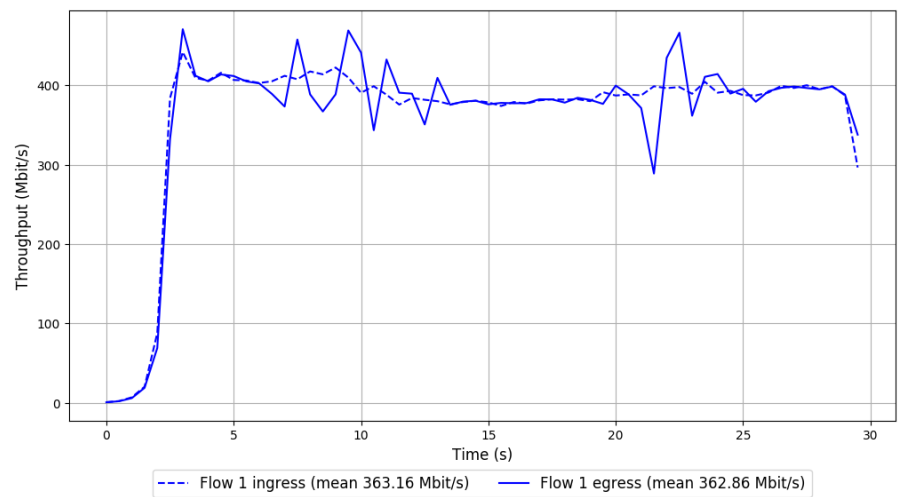
-- Flow 1:

Average throughput: 362.86 Mbit/s

95th percentile per-packet one-way delay: 157.013 ms

Loss rate: 0.09%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 08:10:34
End at: 2018-03-27 08:11:04

# Below is generated by plot.py at 2018-03-27 12:06:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 366.72 Mbit/s
95th percentile per-packet one-way delay: 62.128 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 366.72 Mbit/s
95th percentile per-packet one-way delay: 62.128 ms
Loss rate: 0.01%
```

Run 10: Report of Vivace-LTE — Data Link

