

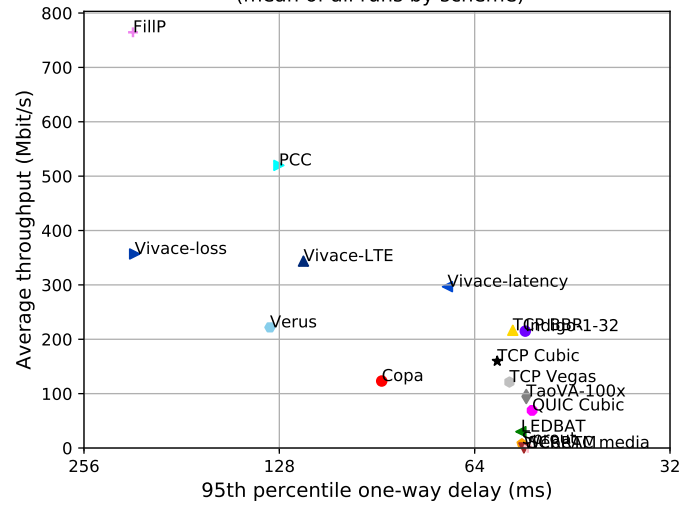
Pantheon Report

Generated at 2018-03-27 10:12:38 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

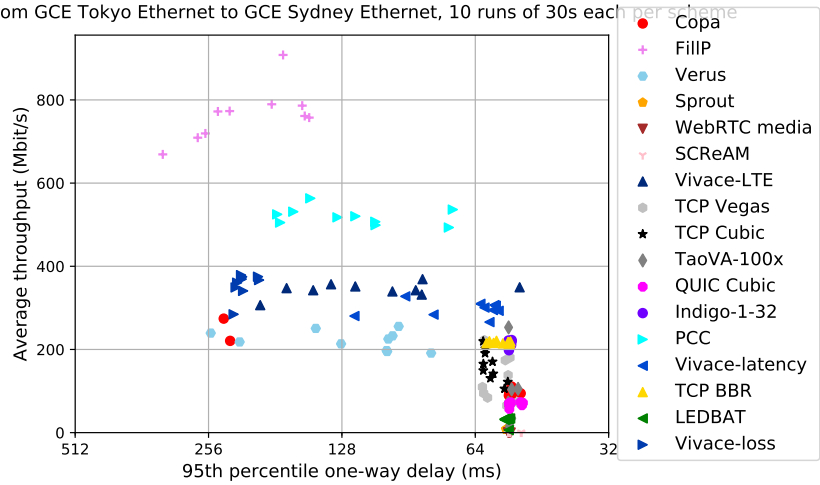
Git summary:

```
branch: master @ 503f51fe03f703a4c0a826a0792a4fead3e7d1b0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	216.52	55.91	0.37
TCP Cubic	10	159.79	59.08	0.34
LEDBAT	10	30.05	54.33	0.77
PCC	10	519.81	128.18	1.06
QUIC Cubic	10	69.14	52.20	0.44
SCReAM	10	0.21	53.01	0.34
WebRTC media	10	0.06	53.74	0.02
Sprout	10	7.85	54.12	0.40
TaoVA-100x	10	94.76	53.29	0.43
TCP Vegas	10	121.28	56.58	0.31
Verus	10	221.86	132.34	0.71
Copa	10	123.17	89.01	4.89
FillP	10	764.58	215.14	12.02
Indigo-1-32	10	214.95	53.48	0.35
Vivace-latency	10	296.74	70.50	0.39
Vivace-loss	10	356.88	213.87	2.82
Vivace-LTE	10	343.77	117.50	0.44

Run 1: Statistics of TCP BBR

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

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

Below is generated by plot.py at 2018-03-27 08:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.65 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.41%

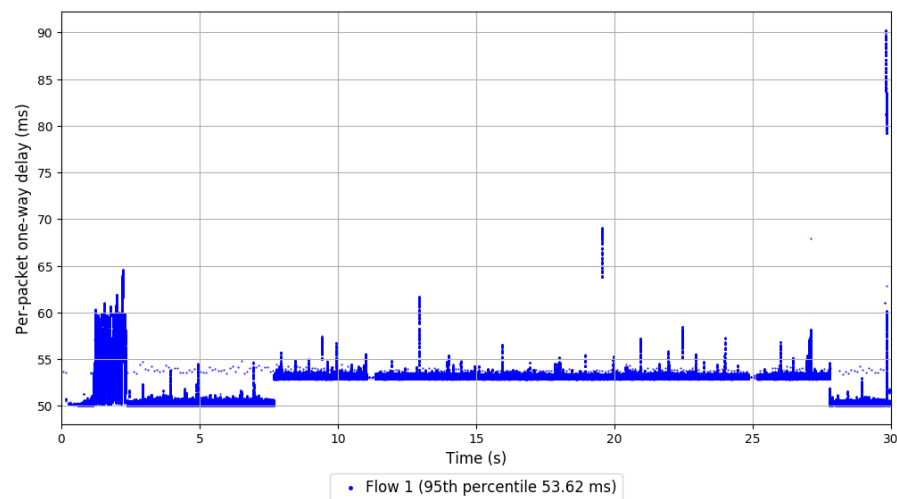
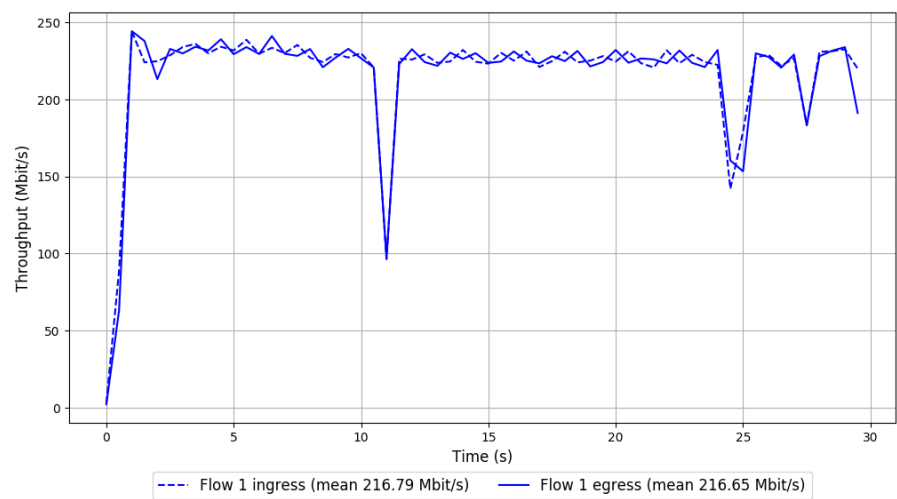
-- Flow 1:

Average throughput: 216.65 Mbit/s

95th percentile per-packet one-way delay: 53.622 ms

Loss rate: 0.41%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-03-27 03:52:20

End at: 2018-03-27 03:52:50

Below is generated by plot.py at 2018-03-27 08:33:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.32 Mbit/s

95th percentile per-packet one-way delay: 53.307 ms

Loss rate: 0.34%

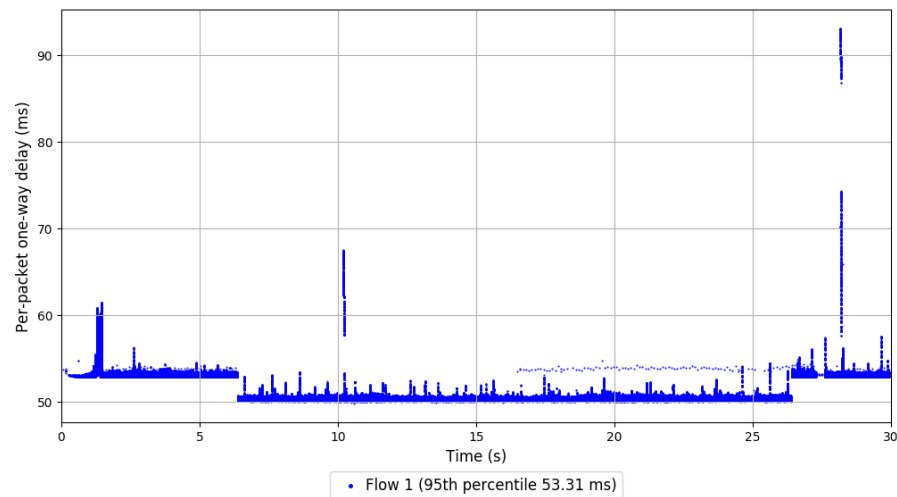
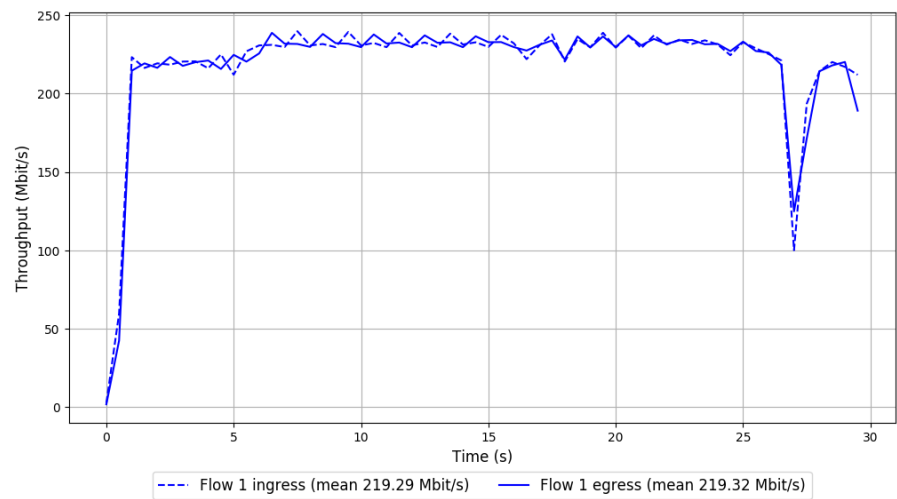
-- Flow 1:

Average throughput: 219.32 Mbit/s

95th percentile per-packet one-way delay: 53.307 ms

Loss rate: 0.34%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-03-27 04:06:31

End at: 2018-03-27 04:07:01

Below is generated by plot.py at 2018-03-27 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.85 Mbit/s

95th percentile per-packet one-way delay: 57.319 ms

Loss rate: 0.35%

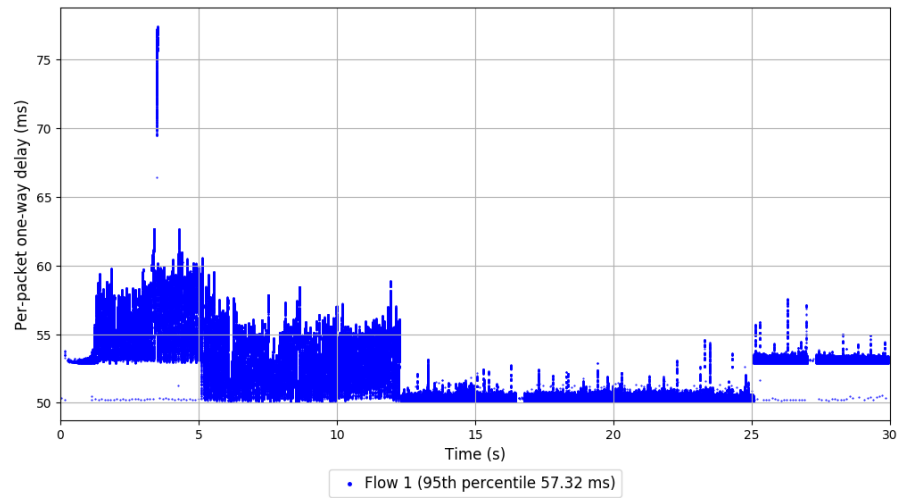
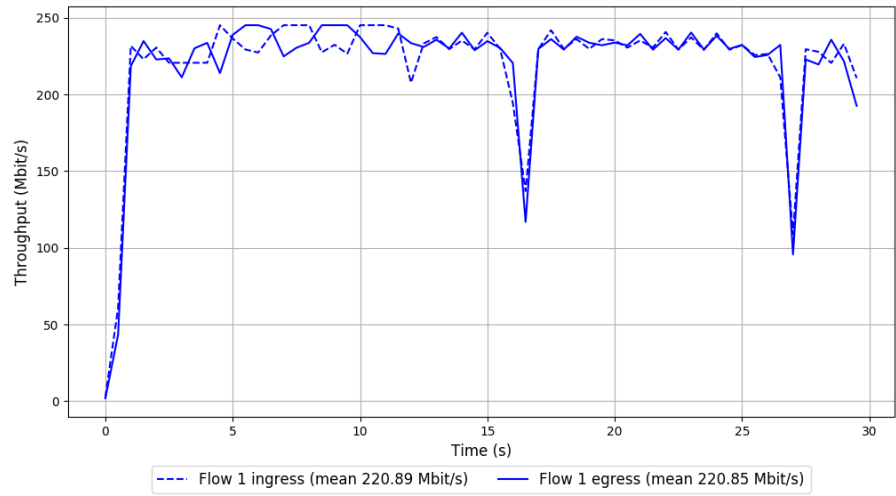
-- Flow 1:

Average throughput: 220.85 Mbit/s

95th percentile per-packet one-way delay: 57.319 ms

Loss rate: 0.35%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-03-27 04:20:50

End at: 2018-03-27 04:21:20

Below is generated by plot.py at 2018-03-27 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.80 Mbit/s

95th percentile per-packet one-way delay: 58.196 ms

Loss rate: 0.36%

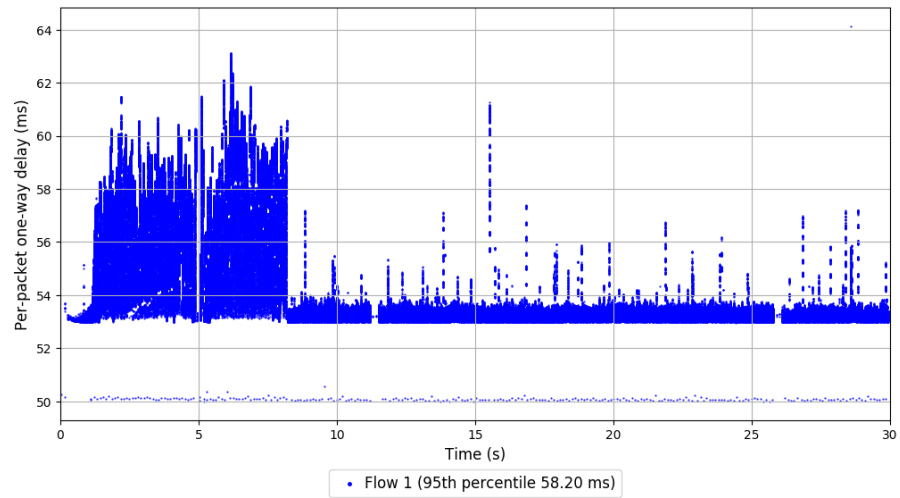
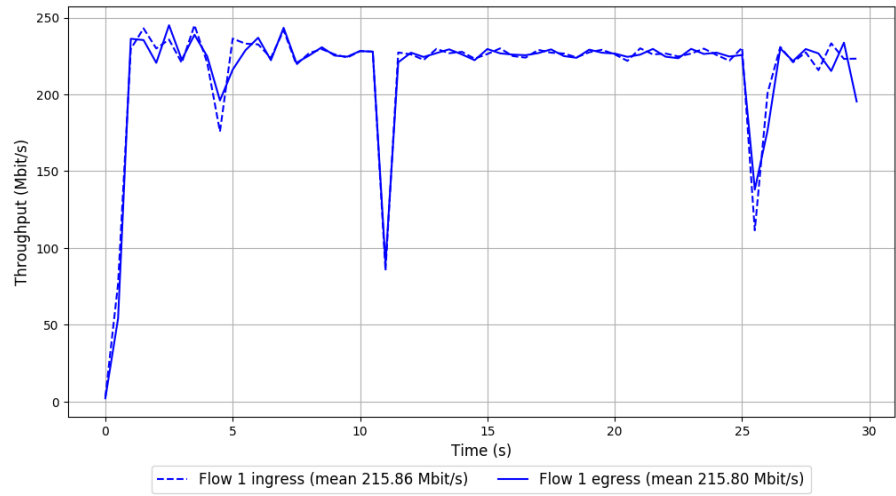
-- Flow 1:

Average throughput: 215.80 Mbit/s

95th percentile per-packet one-way delay: 58.196 ms

Loss rate: 0.36%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-03-27 04:34:55

End at: 2018-03-27 04:35:25

Below is generated by plot.py at 2018-03-27 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.86 Mbit/s

95th percentile per-packet one-way delay: 53.464 ms

Loss rate: 0.40%

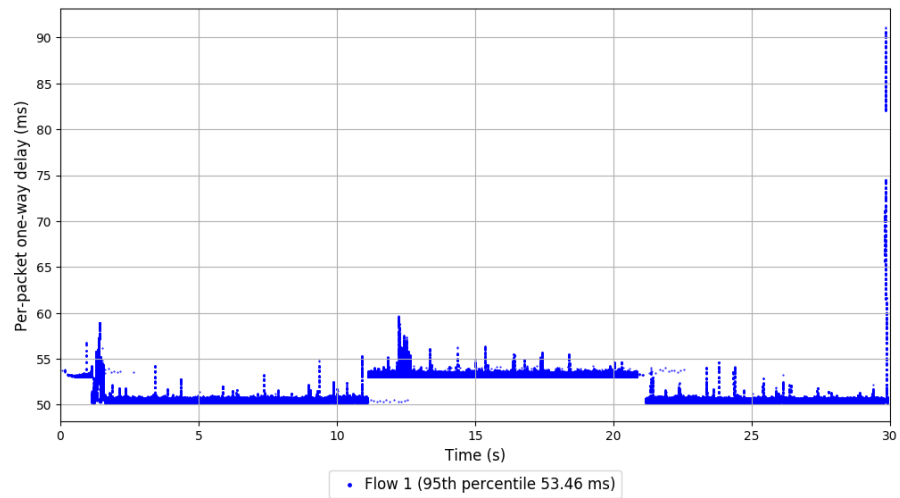
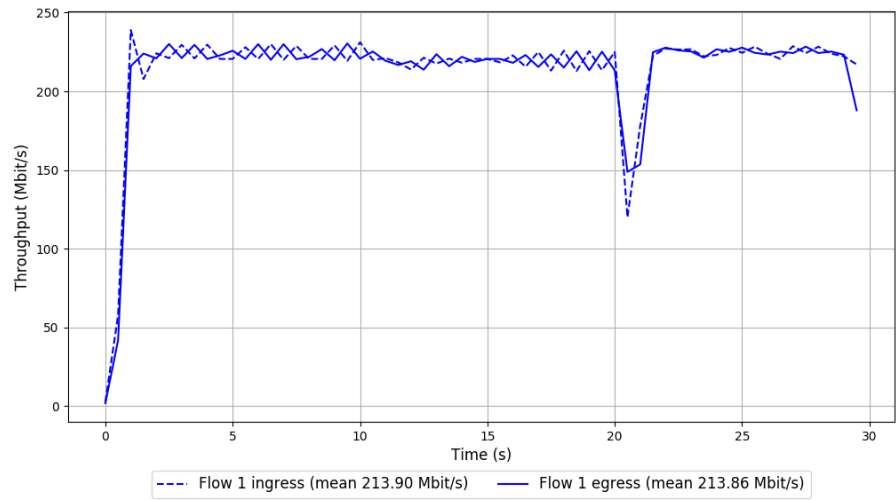
-- Flow 1:

Average throughput: 213.86 Mbit/s

95th percentile per-packet one-way delay: 53.464 ms

Loss rate: 0.40%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-03-27 04:49:21

End at: 2018-03-27 04:49:51

Below is generated by plot.py at 2018-03-27 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.25 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.35%

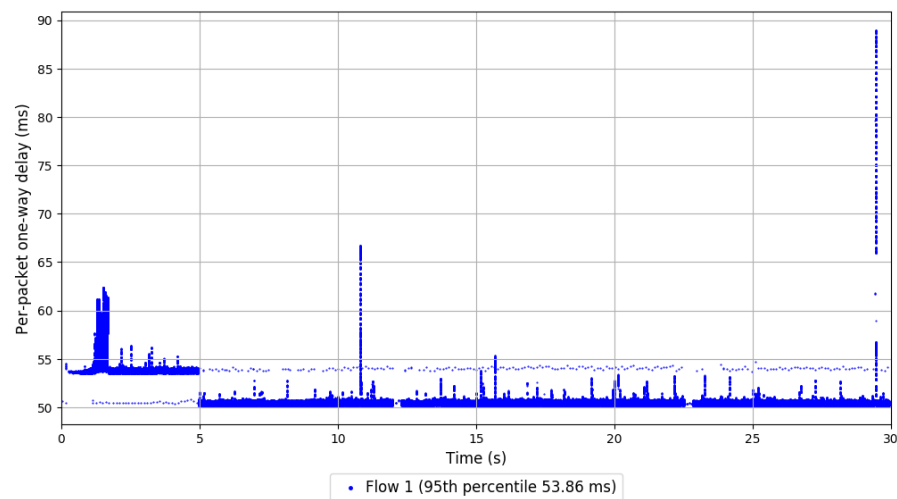
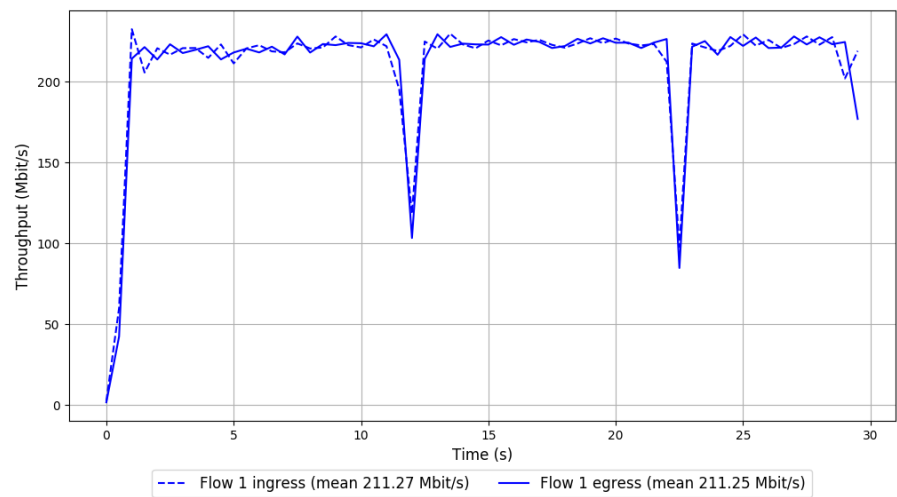
-- Flow 1:

Average throughput: 211.25 Mbit/s

95th percentile per-packet one-way delay: 53.862 ms

Loss rate: 0.35%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

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

End at: 2018-03-27 05:04:00

Below is generated by plot.py at 2018-03-27 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.51 Mbit/s

95th percentile per-packet one-way delay: 55.454 ms

Loss rate: 0.36%

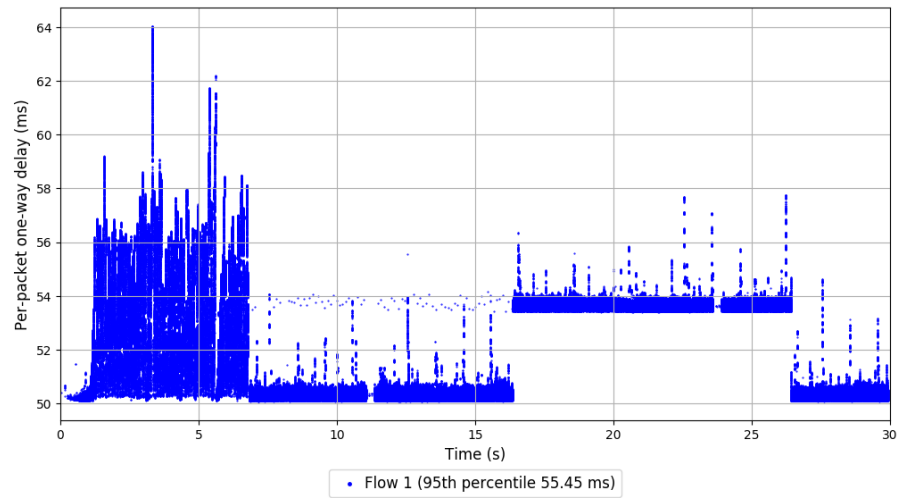
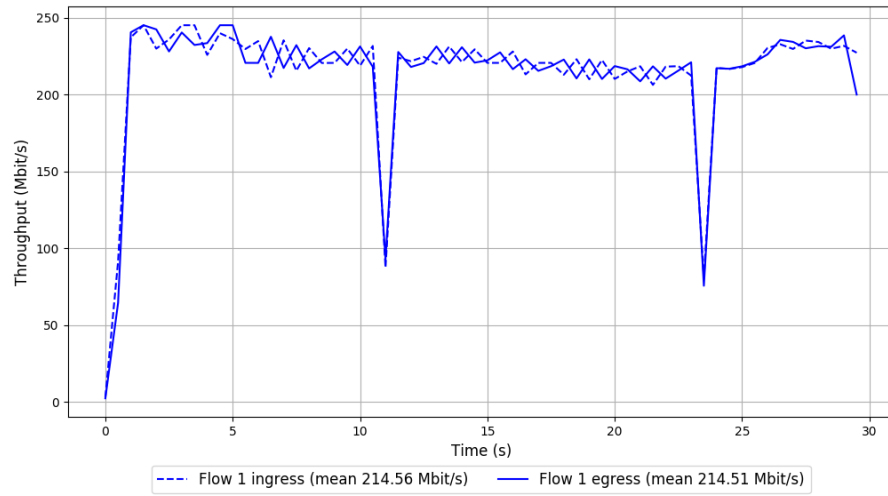
-- Flow 1:

Average throughput: 214.51 Mbit/s

95th percentile per-packet one-way delay: 55.454 ms

Loss rate: 0.36%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

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

End at: 2018-03-27 05:18:27

Below is generated by plot.py at 2018-03-27 08:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.10 Mbit/s

95th percentile per-packet one-way delay: 60.400 ms

Loss rate: 0.37%

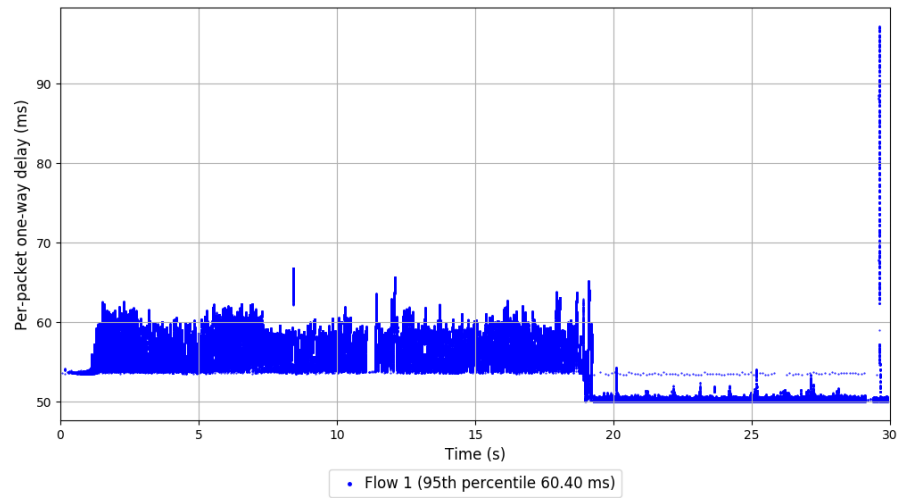
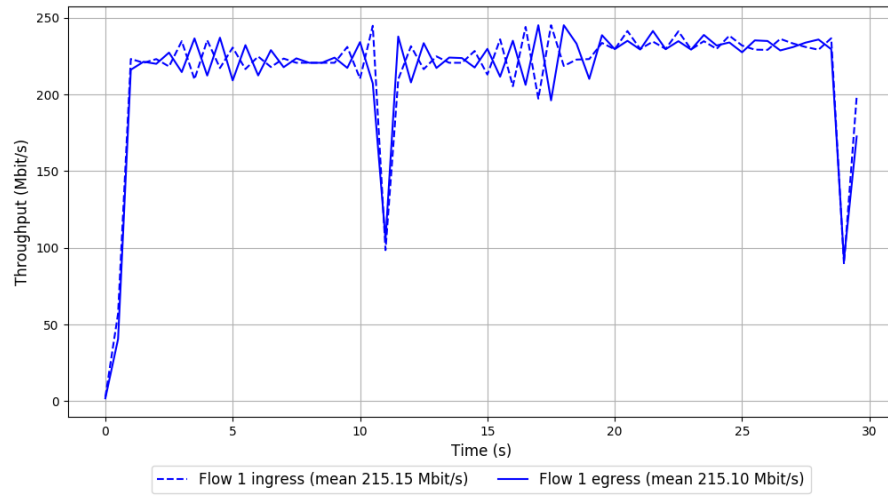
-- Flow 1:

Average throughput: 215.10 Mbit/s

95th percentile per-packet one-way delay: 60.400 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-03-27 05:32:08

End at: 2018-03-27 05:32:38

Below is generated by plot.py at 2018-03-27 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.80 Mbit/s

95th percentile per-packet one-way delay: 59.472 ms

Loss rate: 0.37%

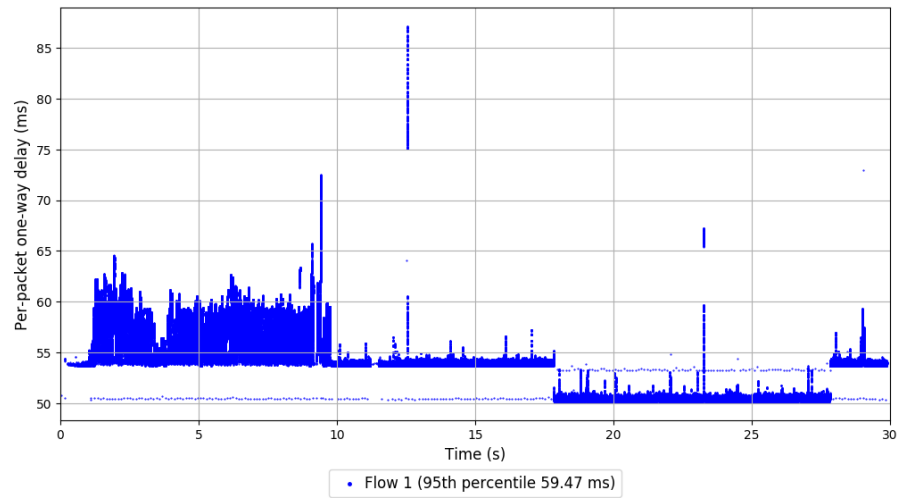
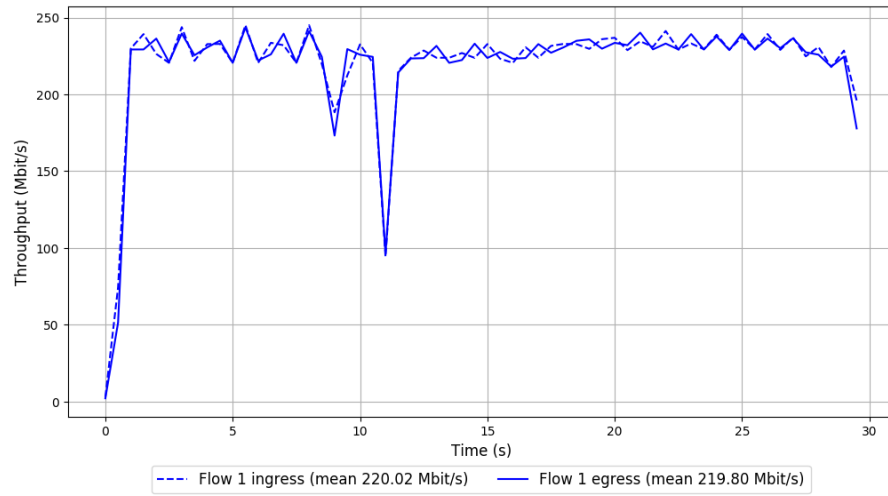
-- Flow 1:

Average throughput: 219.80 Mbit/s

95th percentile per-packet one-way delay: 59.472 ms

Loss rate: 0.37%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-03-27 05:46:33

End at: 2018-03-27 05:47:03

Below is generated by plot.py at 2018-03-27 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 53.967 ms

Loss rate: 0.35%

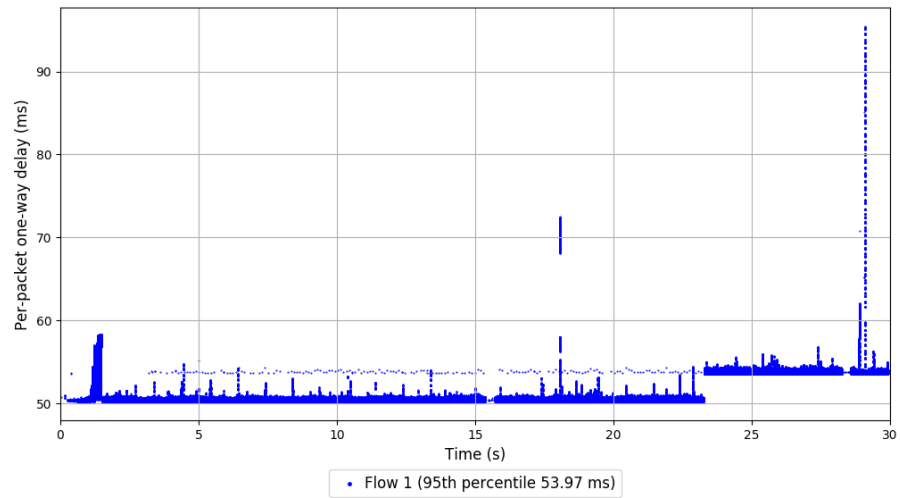
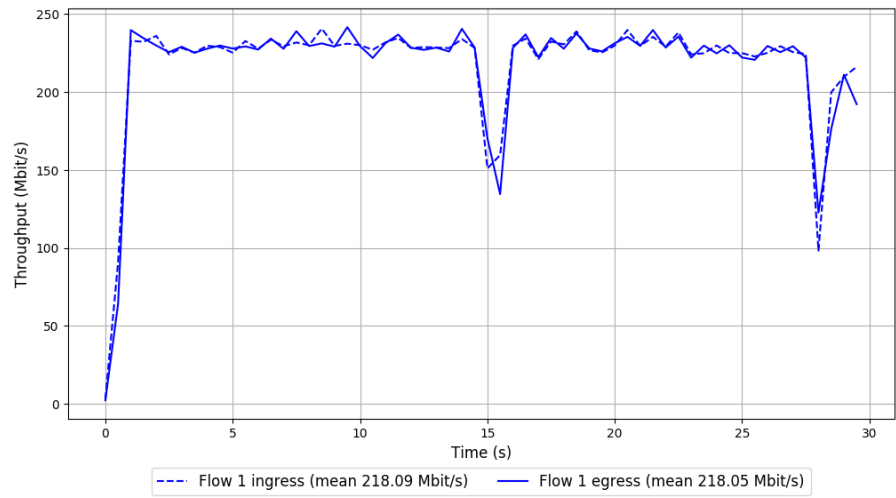
-- Flow 1:

Average throughput: 218.05 Mbit/s

95th percentile per-packet one-way delay: 53.967 ms

Loss rate: 0.35%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-03-27 03:42:57

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

Below is generated by plot.py at 2018-03-27 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 60.737 ms

Loss rate: 0.26%

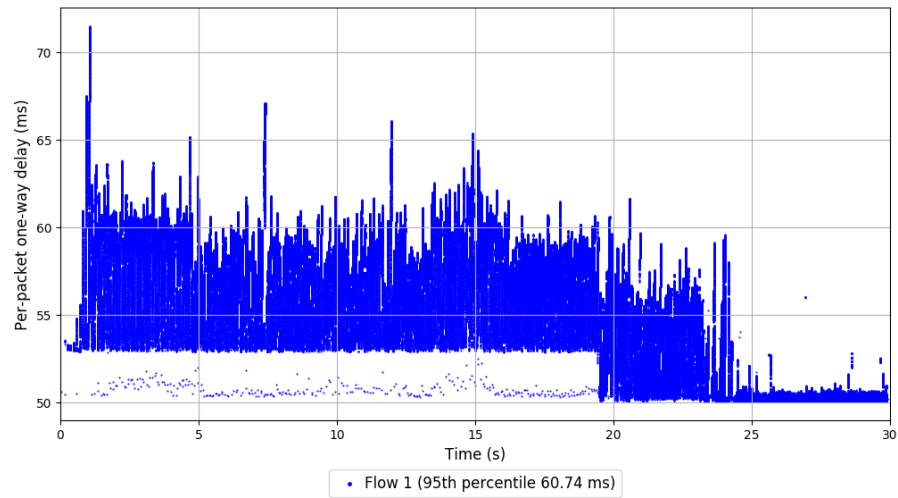
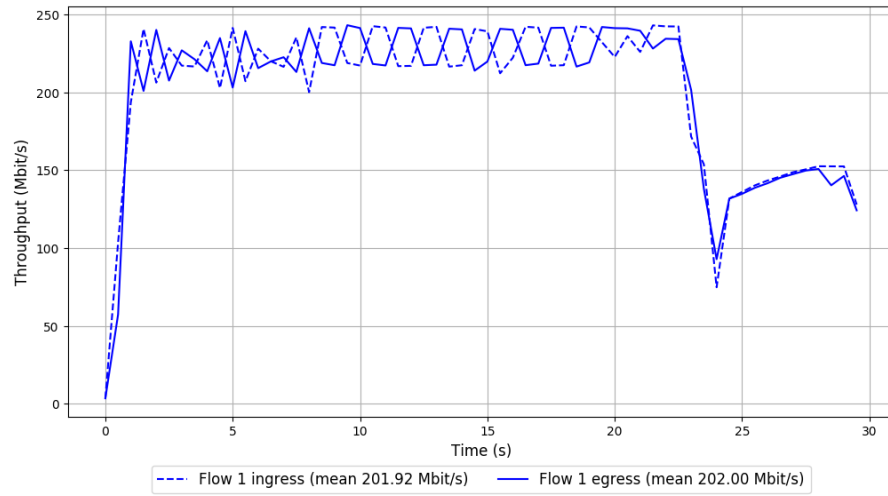
-- Flow 1:

Average throughput: 202.00 Mbit/s

95th percentile per-packet one-way delay: 60.737 ms

Loss rate: 0.26%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

End at: 2018-03-27 03:57:39

Below is generated by plot.py at 2018-03-27 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.12 Mbit/s

95th percentile per-packet one-way delay: 54.059 ms

Loss rate: 0.30%

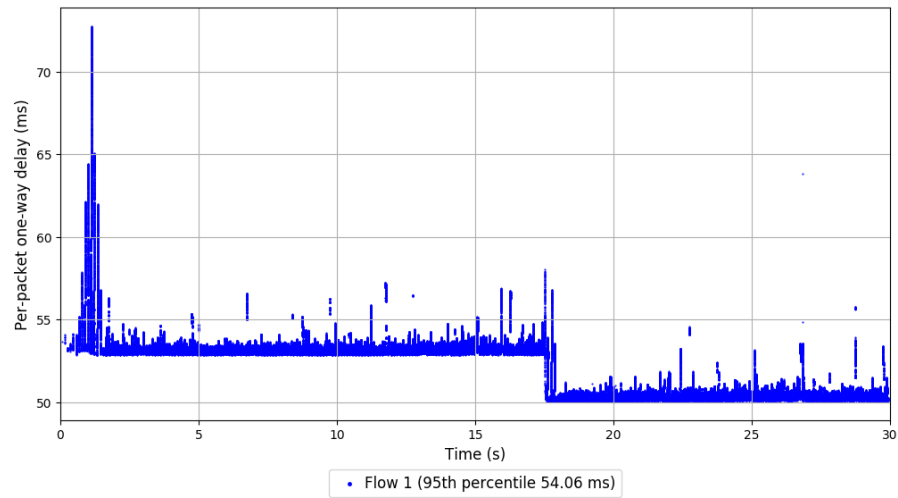
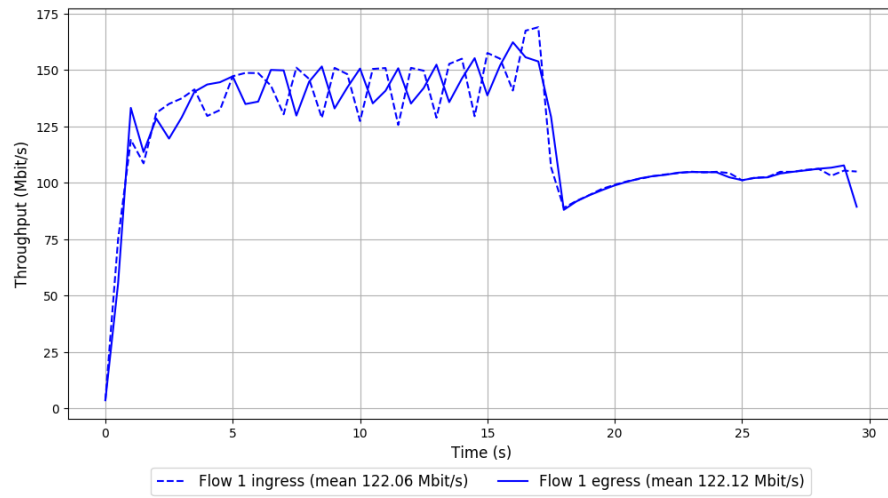
-- Flow 1:

Average throughput: 122.12 Mbit/s

95th percentile per-packet one-way delay: 54.059 ms

Loss rate: 0.30%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-03-27 04:11:23

End at: 2018-03-27 04:11:53

Below is generated by plot.py at 2018-03-27 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.32 Mbit/s

95th percentile per-packet one-way delay: 61.361 ms

Loss rate: 0.49%

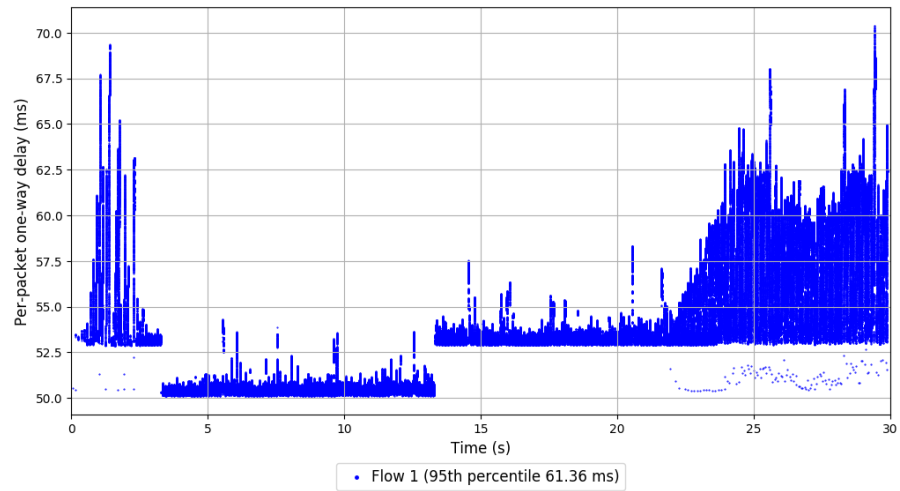
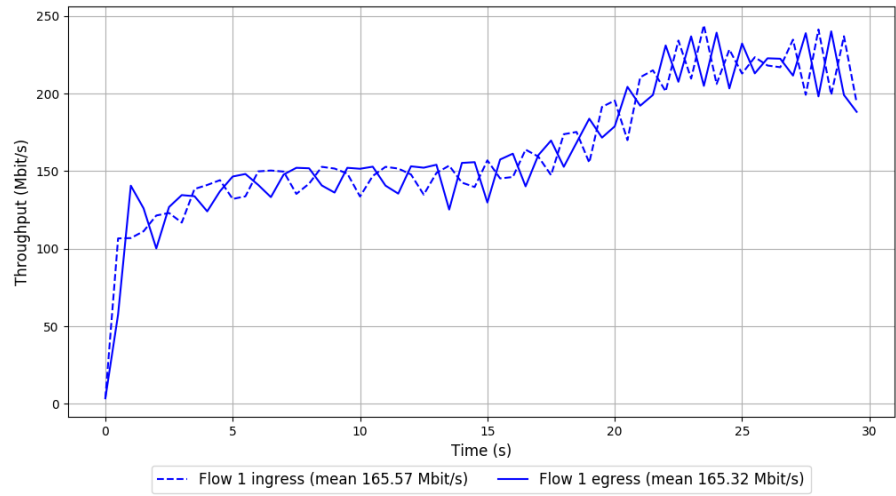
-- Flow 1:

Average throughput: 165.32 Mbit/s

95th percentile per-packet one-way delay: 61.361 ms

Loss rate: 0.49%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-03-27 04:25:38

End at: 2018-03-27 04:26:08

Below is generated by plot.py at 2018-03-27 08:37:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.90 Mbit/s

95th percentile per-packet one-way delay: 60.823 ms

Loss rate: 0.19%

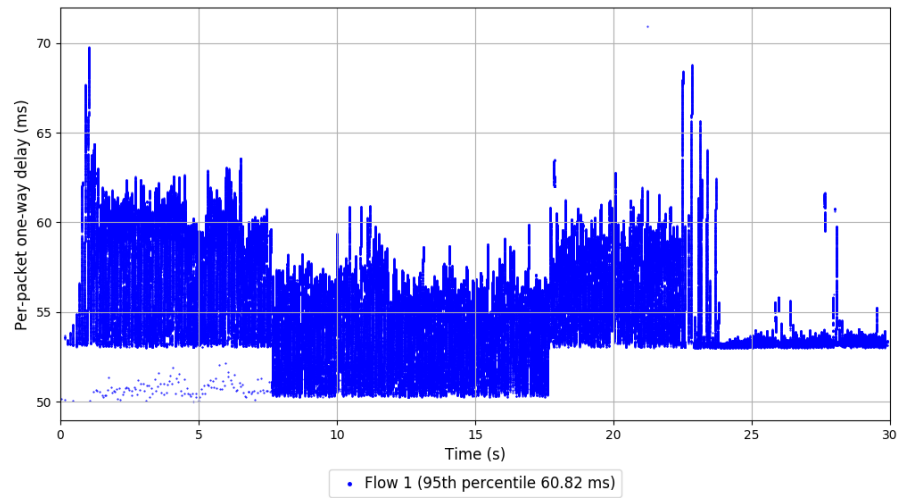
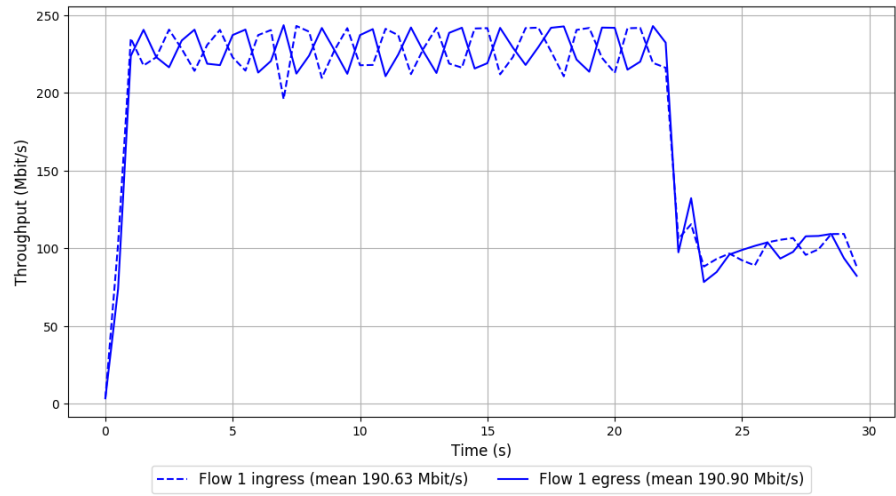
-- Flow 1:

Average throughput: 190.90 Mbit/s

95th percentile per-packet one-way delay: 60.823 ms

Loss rate: 0.19%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-03-27 04:39:56

End at: 2018-03-27 04:40:26

Below is generated by plot.py at 2018-03-27 08:37:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.57 Mbit/s

95th percentile per-packet one-way delay: 61.414 ms

Loss rate: 0.37%

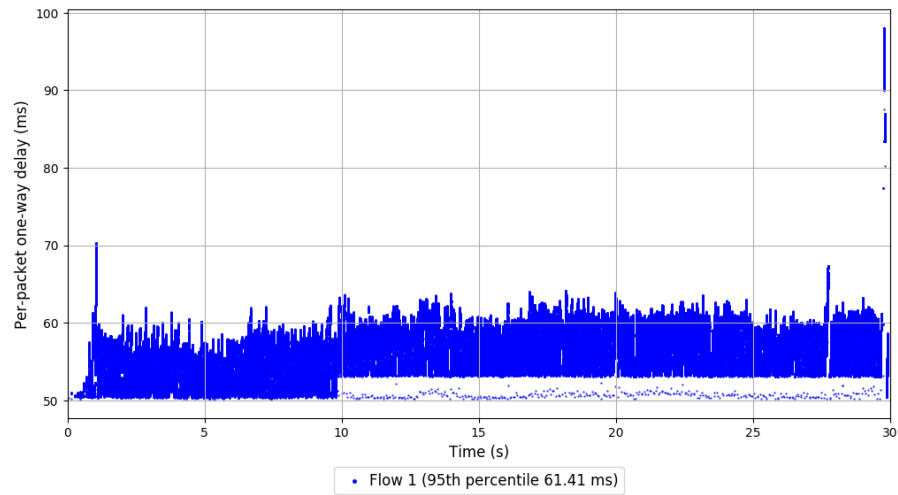
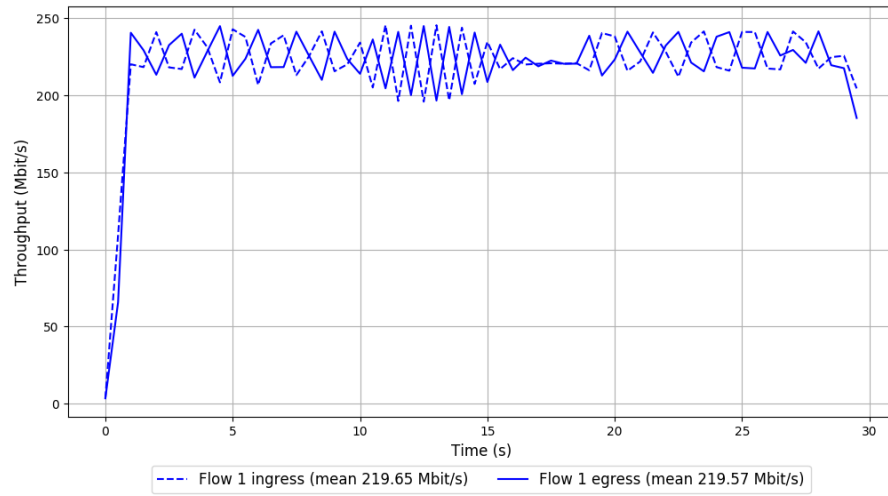
-- Flow 1:

Average throughput: 219.57 Mbit/s

95th percentile per-packet one-way delay: 61.414 ms

Loss rate: 0.37%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-03-27 04:54:07

End at: 2018-03-27 04:54:37

Below is generated by plot.py at 2018-03-27 08:37:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.40 Mbit/s

95th percentile per-packet one-way delay: 61.399 ms

Loss rate: 0.30%

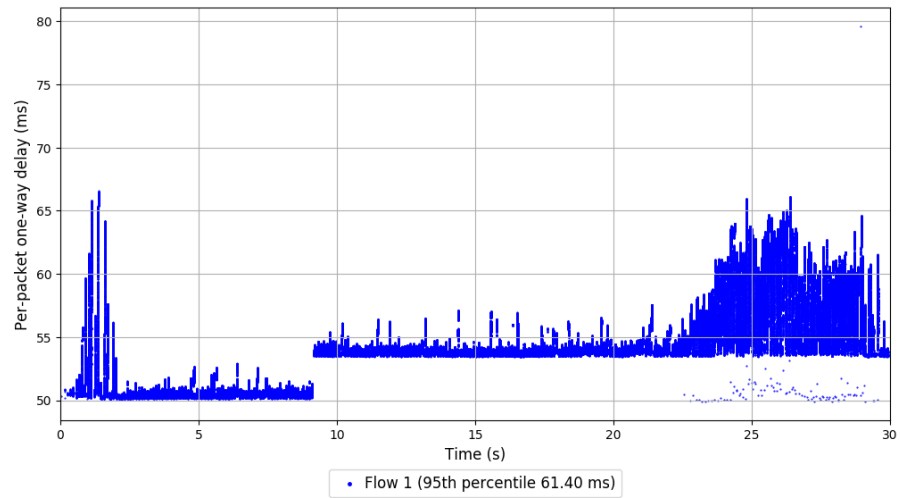
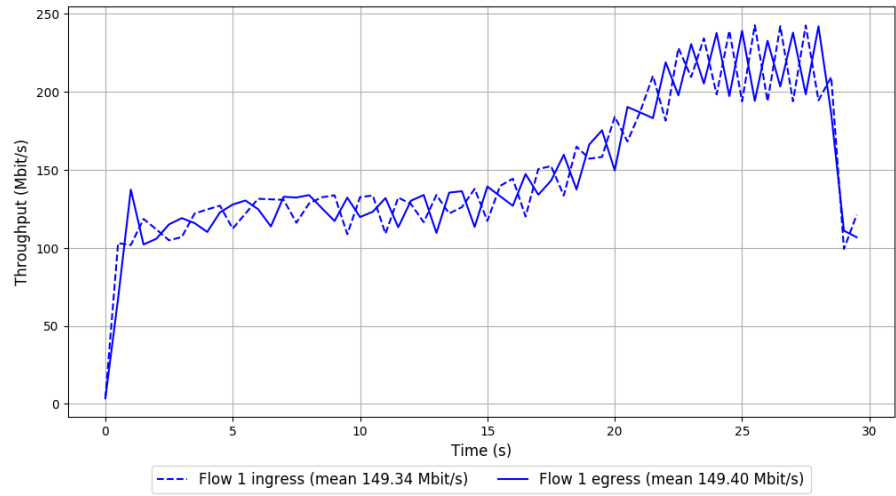
-- Flow 1:

Average throughput: 149.40 Mbit/s

95th percentile per-packet one-way delay: 61.399 ms

Loss rate: 0.30%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-03-27 05:08:19

End at: 2018-03-27 05:08:49

Below is generated by plot.py at 2018-03-27 08:38:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 141.63 Mbit/s

95th percentile per-packet one-way delay: 58.290 ms

Loss rate: 0.58%

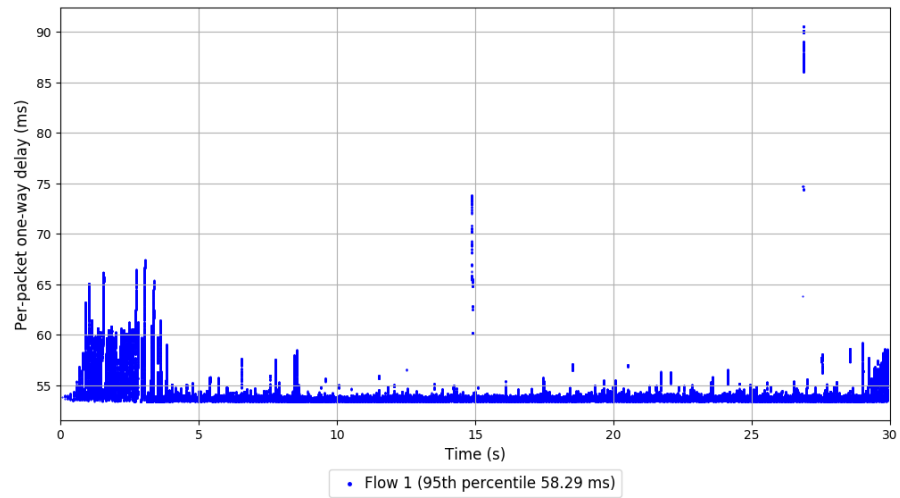
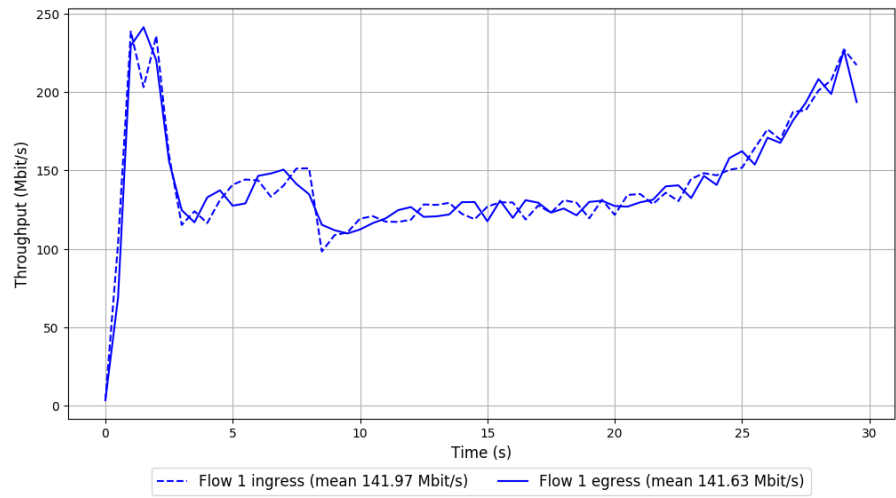
-- Flow 1:

Average throughput: 141.63 Mbit/s

95th percentile per-packet one-way delay: 58.290 ms

Loss rate: 0.58%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-03-27 05:22:47

End at: 2018-03-27 05:23:17

Below is generated by plot.py at 2018-03-27 08:38:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.57 Mbit/s

95th percentile per-packet one-way delay: 54.999 ms

Loss rate: 0.32%

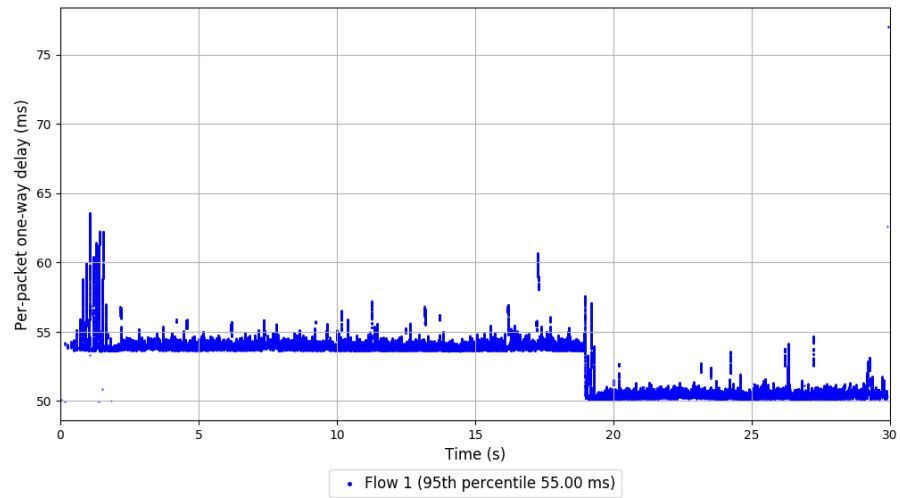
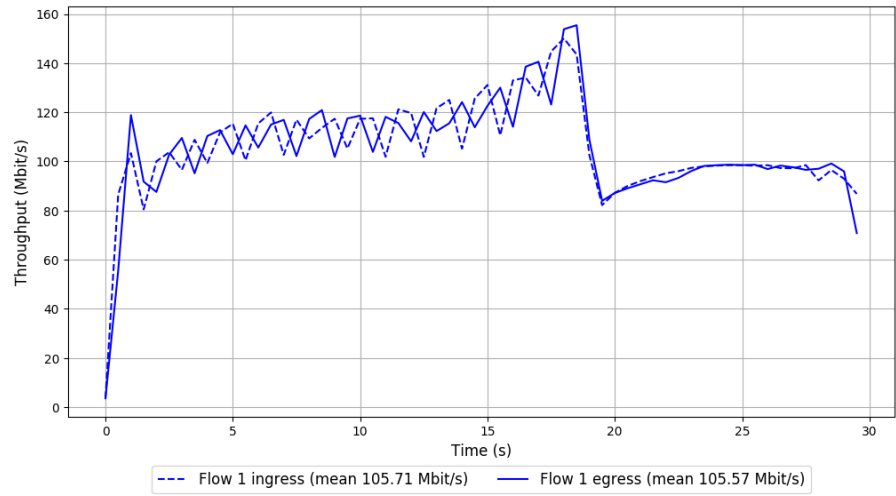
-- Flow 1:

Average throughput: 105.57 Mbit/s

95th percentile per-packet one-way delay: 54.999 ms

Loss rate: 0.32%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-03-27 05:37:03

End at: 2018-03-27 05:37:33

Below is generated by plot.py at 2018-03-27 08:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.55 Mbit/s

95th percentile per-packet one-way delay: 58.519 ms

Loss rate: 0.26%

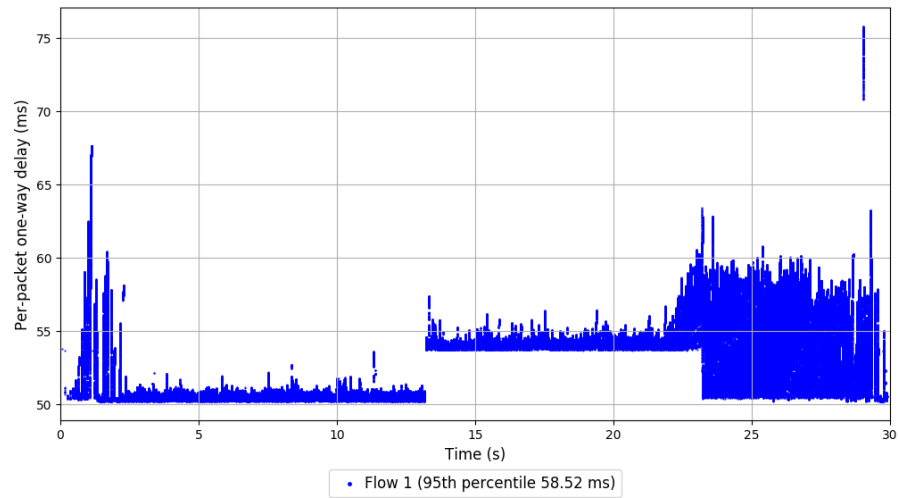
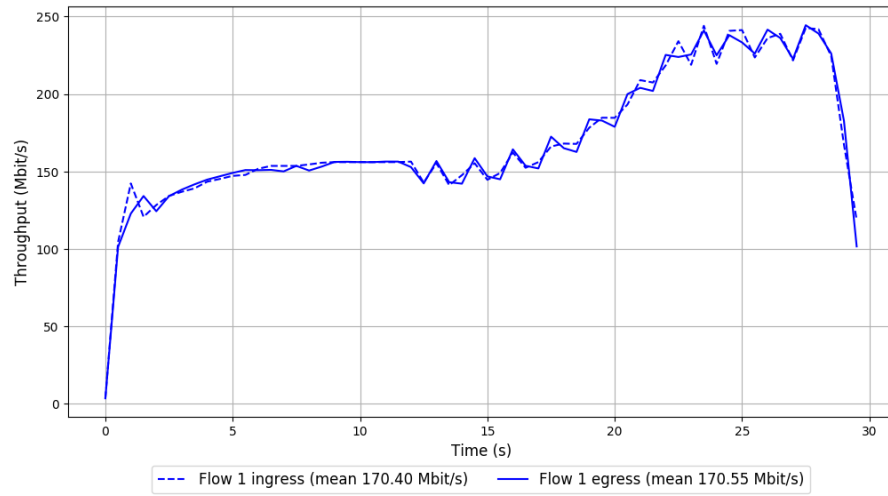
-- Flow 1:

Average throughput: 170.55 Mbit/s

95th percentile per-packet one-way delay: 58.519 ms

Loss rate: 0.26%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-03-27 05:51:22

End at: 2018-03-27 05:51:52

Below is generated by plot.py at 2018-03-27 08:40:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.84 Mbit/s

95th percentile per-packet one-way delay: 59.167 ms

Loss rate: 0.38%

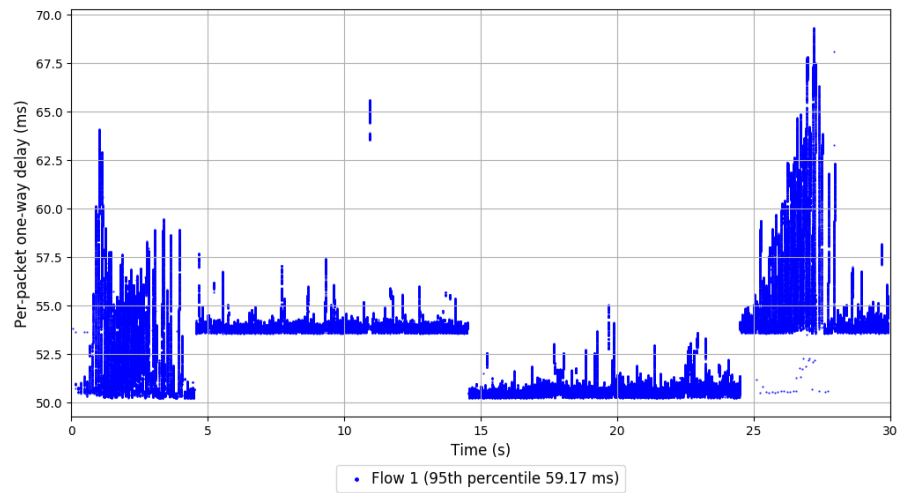
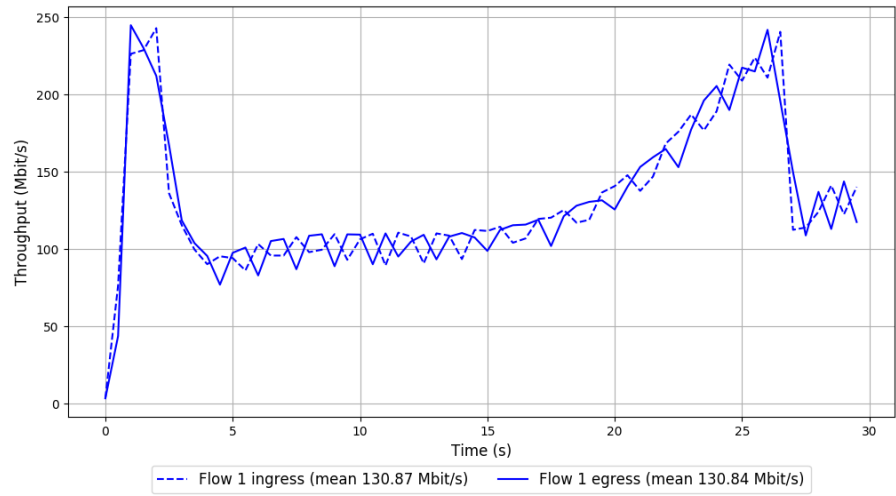
-- Flow 1:

Average throughput: 130.84 Mbit/s

95th percentile per-packet one-way delay: 59.167 ms

Loss rate: 0.38%

Run 10: Report of TCP Cubic — Data Link

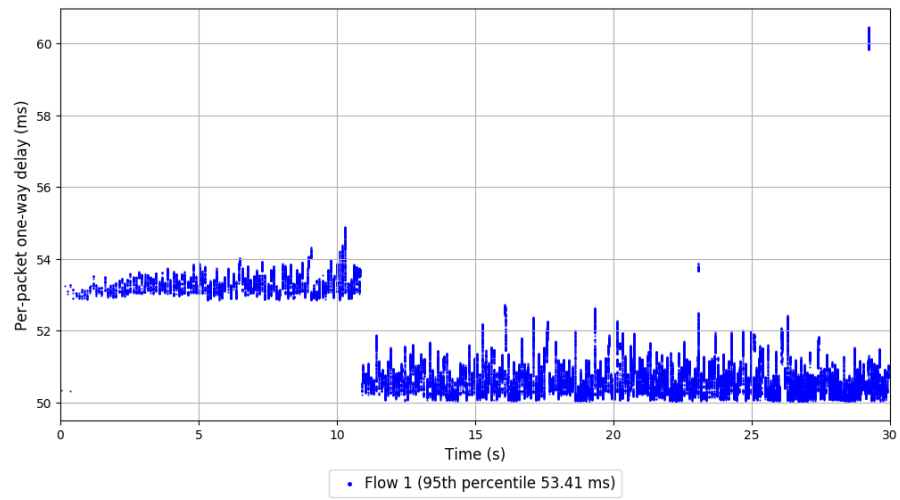
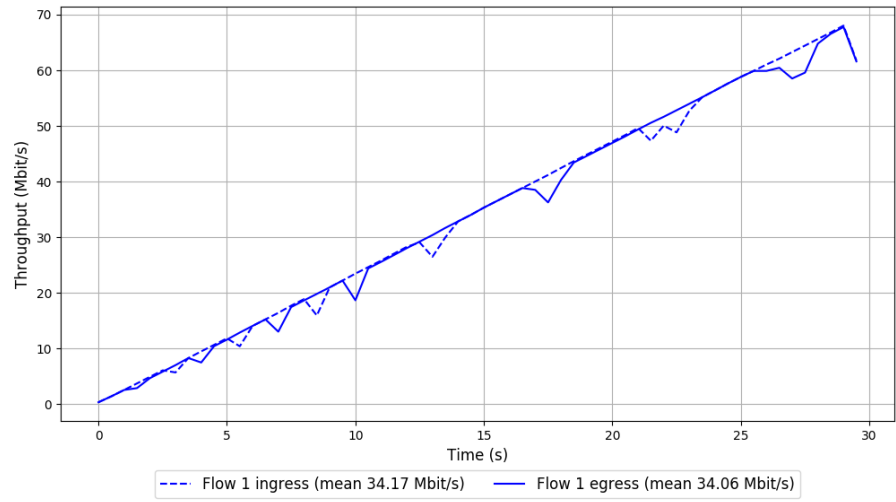


```
Run 1: Statistics of LEDBAT

Start at: 2018-03-27 03:38:55
End at: 2018-03-27 03:39:25

# Below is generated by plot.py at 2018-03-27 08:40:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 53.406 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 34.06 Mbit/s
95th percentile per-packet one-way delay: 53.406 ms
Loss rate: 0.68%
```

Run 1: Report of LEDBAT — Data Link

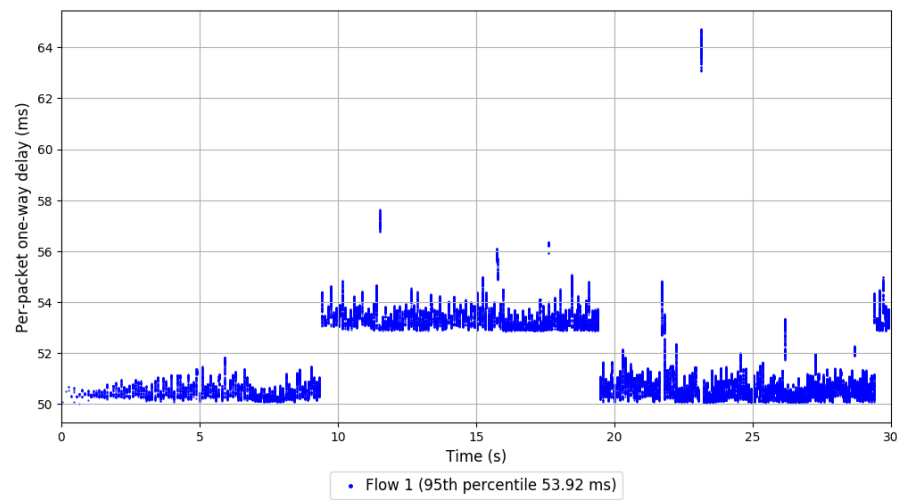
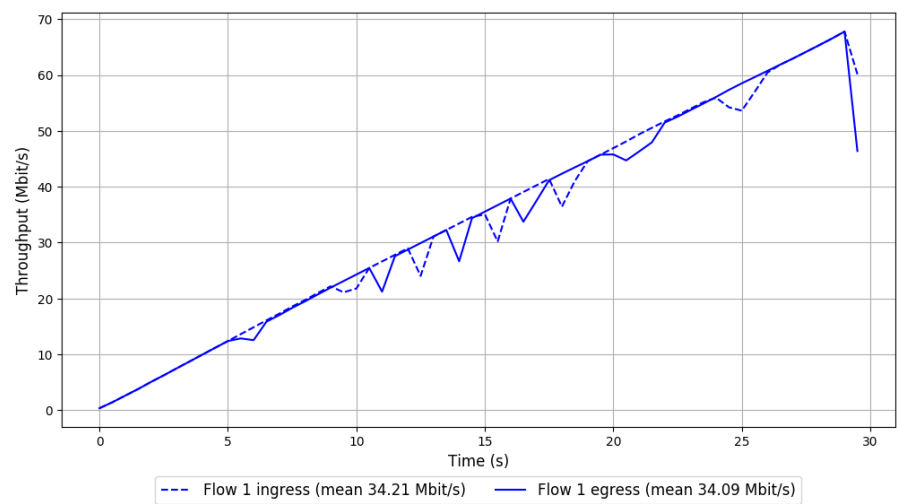


```
Run 2: Statistics of LEDBAT

Start at: 2018-03-27 03:53:07
End at: 2018-03-27 03:53:37

# Below is generated by plot.py at 2018-03-27 08:40:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 53.916 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 34.09 Mbit/s
95th percentile per-packet one-way delay: 53.916 ms
Loss rate: 0.67%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-03-27 04:07:18

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

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 1.57%

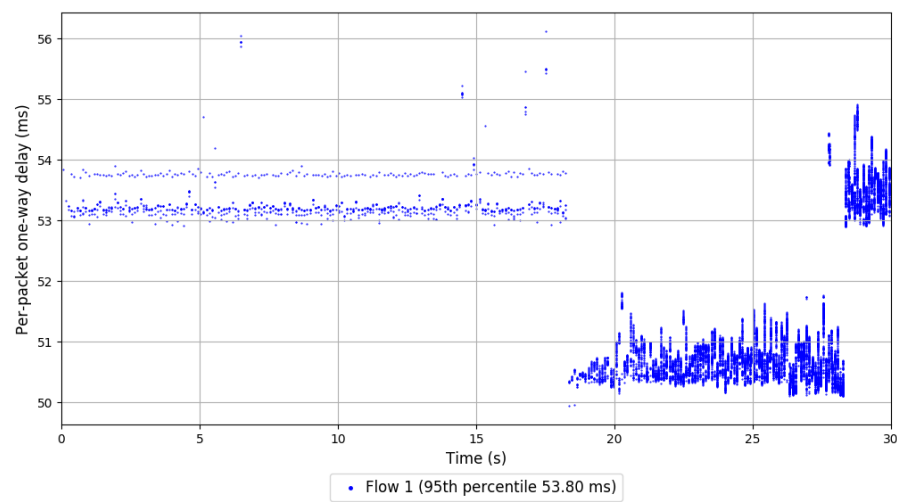
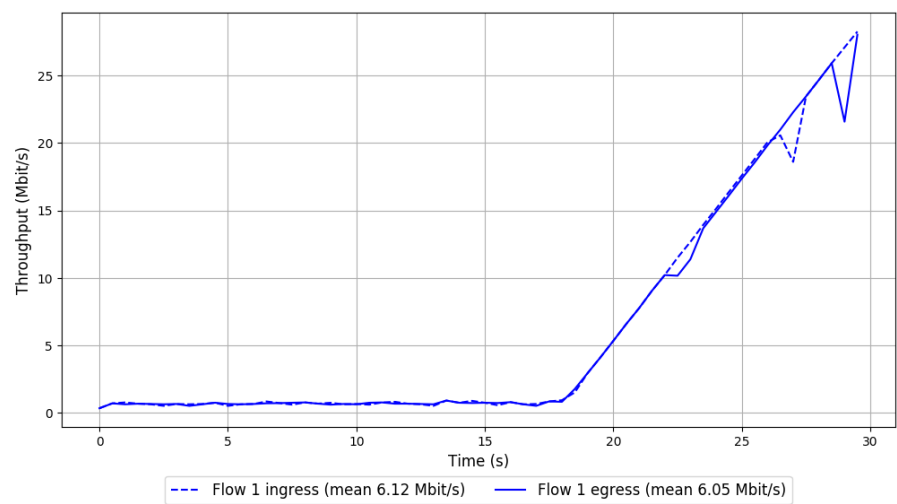
-- Flow 1:

Average throughput: 6.05 Mbit/s

95th percentile per-packet one-way delay: 53.801 ms

Loss rate: 1.57%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-03-27 04:21:37

End at: 2018-03-27 04:22:07

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.68%

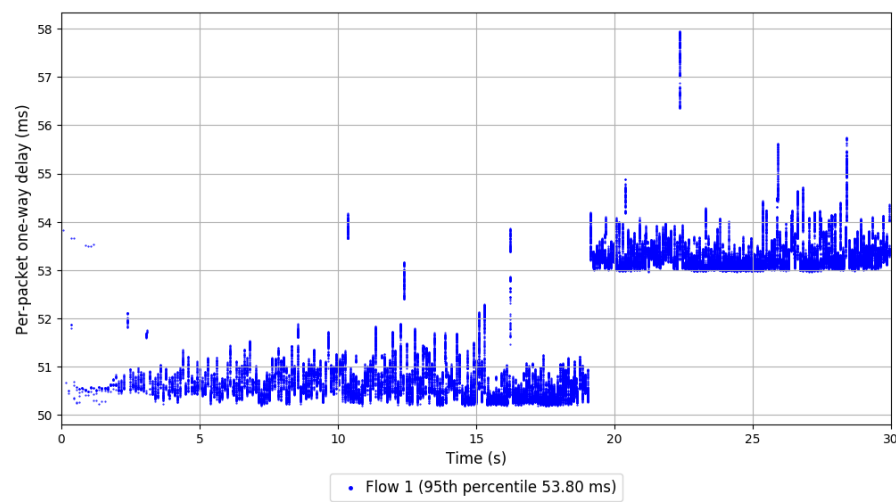
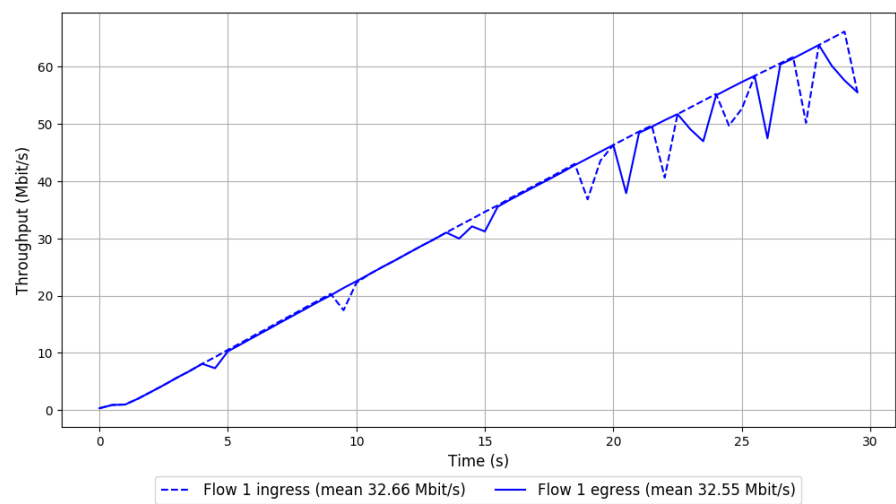
-- Flow 1:

Average throughput: 32.55 Mbit/s

95th percentile per-packet one-way delay: 53.796 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-03-27 04:35:41

End at: 2018-03-27 04:36:11

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 54.269 ms

Loss rate: 0.69%

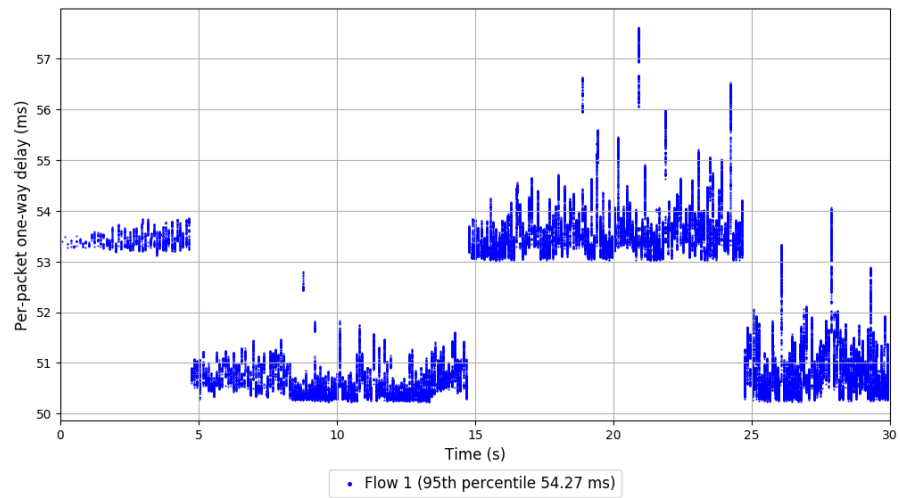
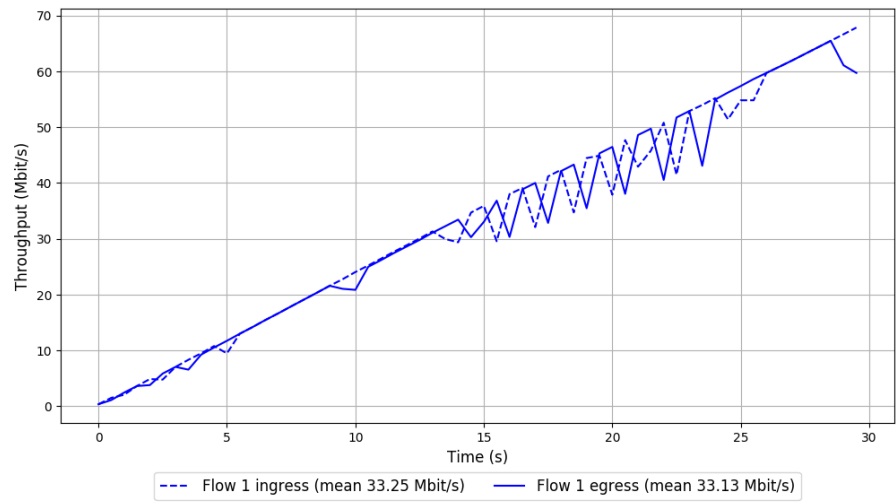
-- Flow 1:

Average throughput: 33.13 Mbit/s

95th percentile per-packet one-way delay: 54.269 ms

Loss rate: 0.69%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

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

End at: 2018-03-27 04:50:38

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 54.928 ms

Loss rate: 0.71%

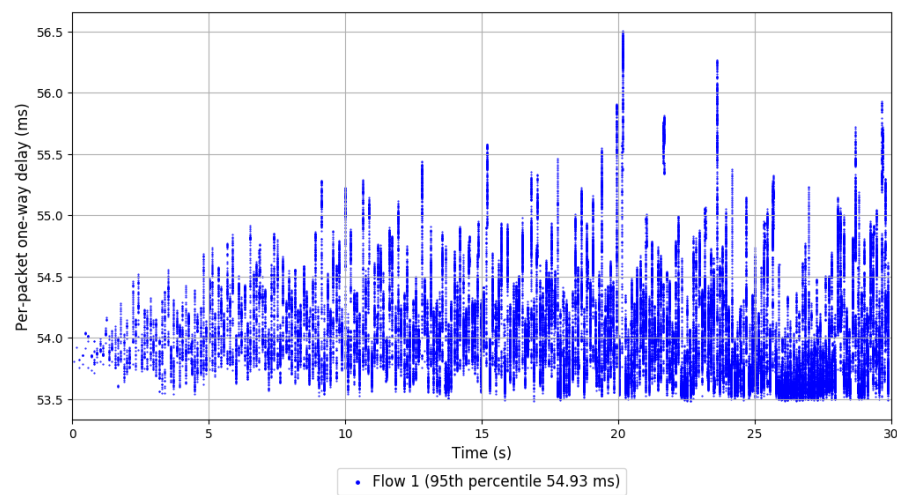
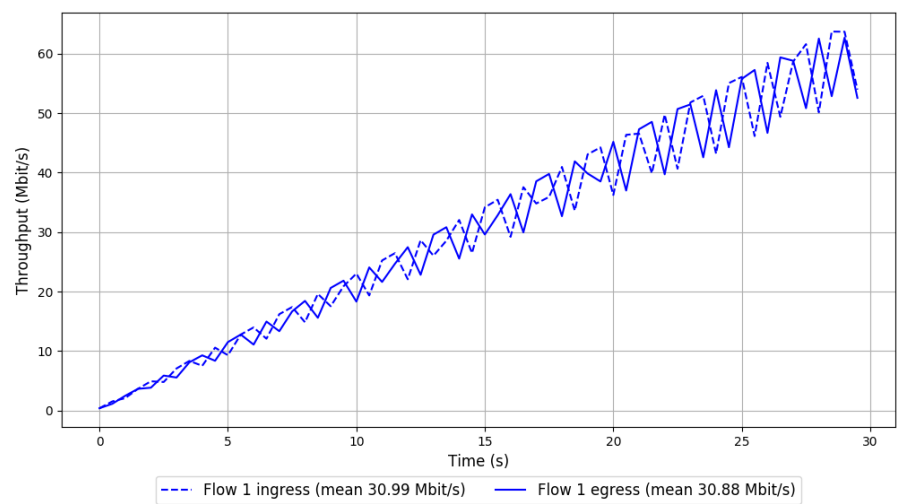
-- Flow 1:

Average throughput: 30.88 Mbit/s

95th percentile per-packet one-way delay: 54.928 ms

Loss rate: 0.71%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-03-27 05:04:16

End at: 2018-03-27 05:04:46

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 54.627 ms

Loss rate: 0.60%

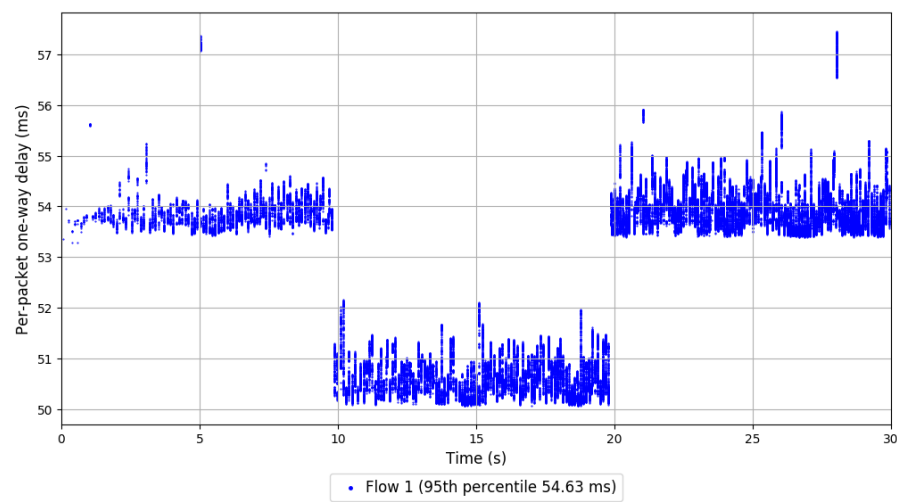
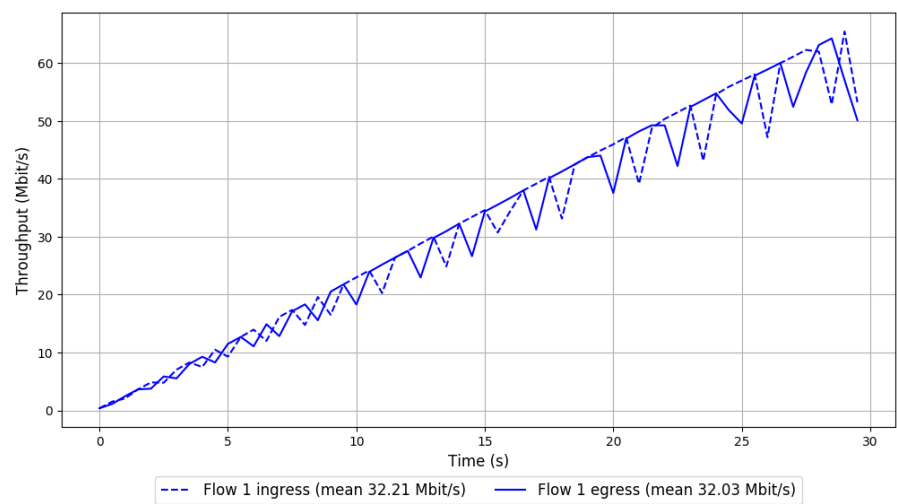
-- Flow 1:

Average throughput: 32.03 Mbit/s

95th percentile per-packet one-way delay: 54.627 ms

Loss rate: 0.60%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-03-27 05:18:44

End at: 2018-03-27 05:19:14

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 54.853 ms

Loss rate: 0.69%

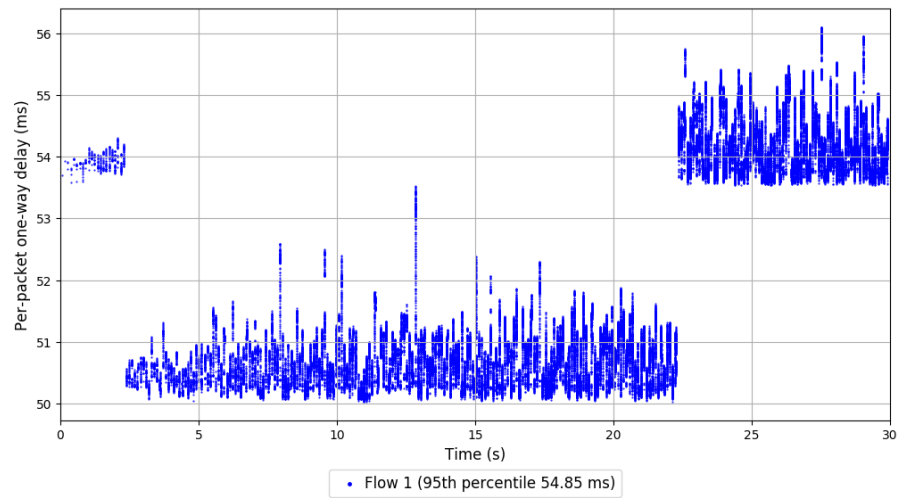
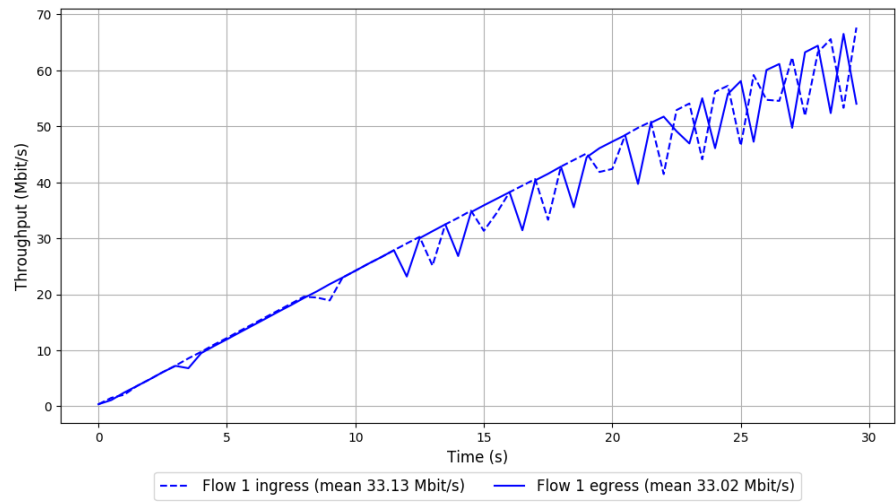
-- Flow 1:

Average throughput: 33.02 Mbit/s

95th percentile per-packet one-way delay: 54.853 ms

Loss rate: 0.69%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-03-27 05:32:55

End at: 2018-03-27 05:33:25

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 54.659 ms

Loss rate: 0.69%

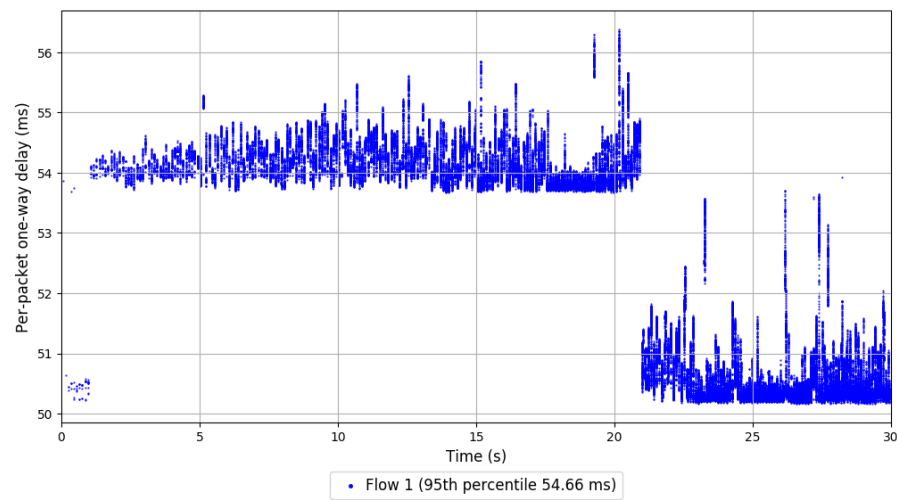
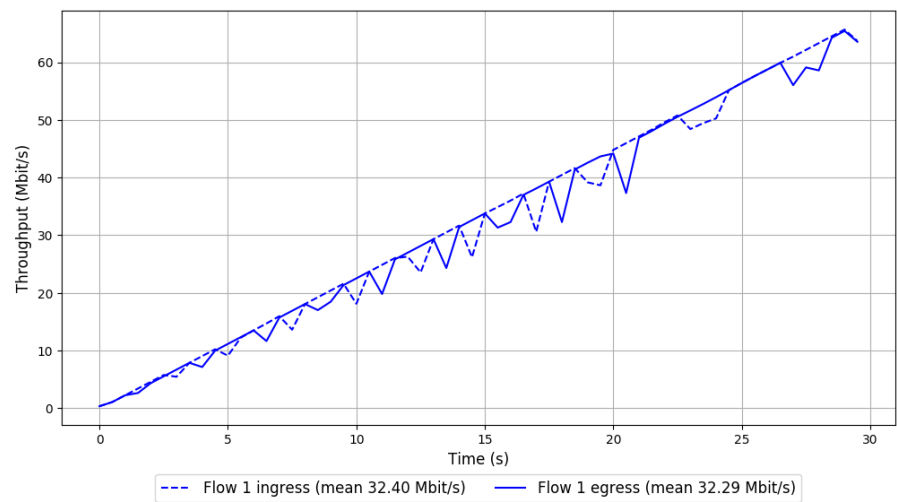
-- Flow 1:

Average throughput: 32.29 Mbit/s

95th percentile per-packet one-way delay: 54.659 ms

Loss rate: 0.69%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-03-27 05:47:20

End at: 2018-03-27 05:47:50

Below is generated by plot.py at 2018-03-27 08:40:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.41 Mbit/s

95th percentile per-packet one-way delay: 55.020 ms

Loss rate: 0.70%

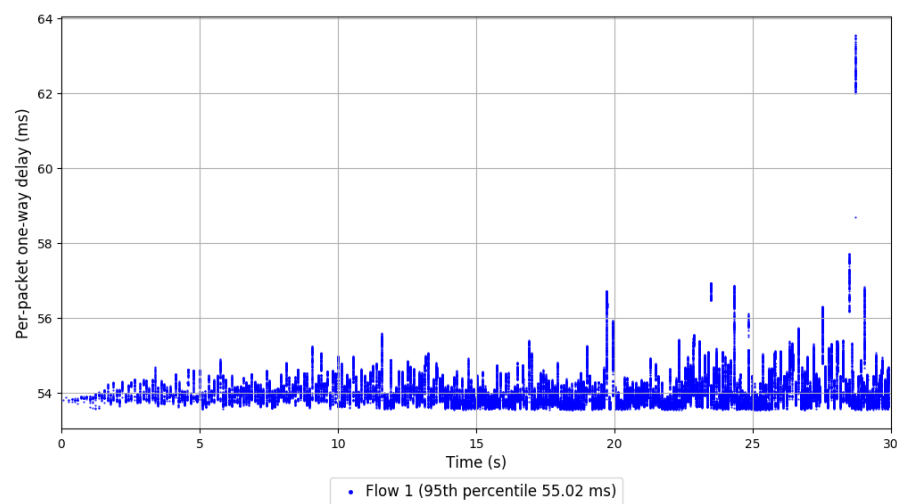
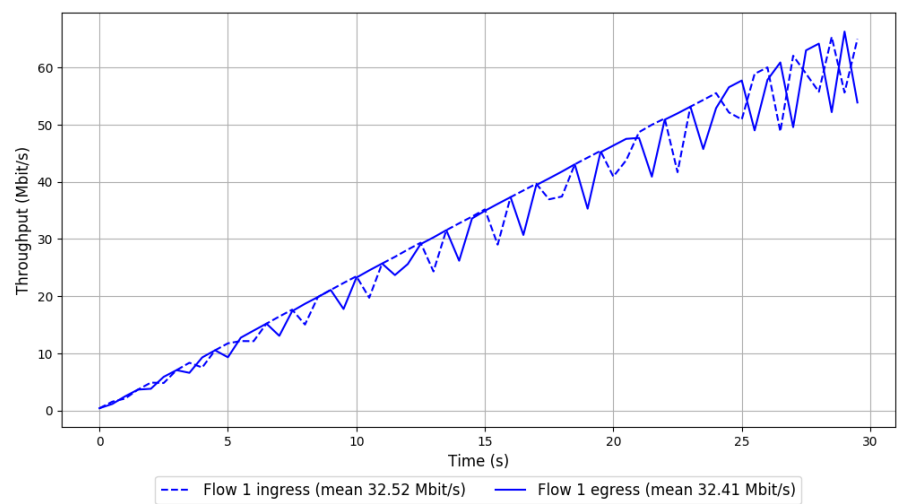
-- Flow 1:

Average throughput: 32.41 Mbit/s

95th percentile per-packet one-way delay: 55.020 ms

Loss rate: 0.70%

Run 10: Report of LEDBAT — Data Link

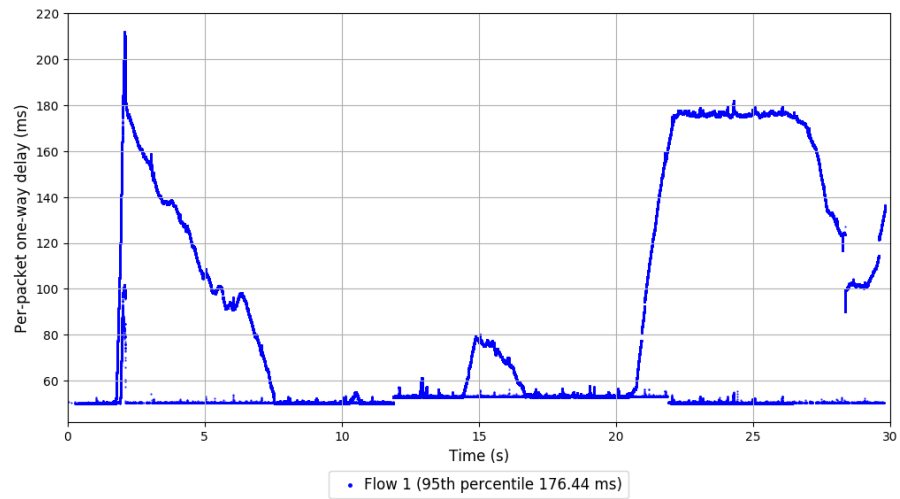
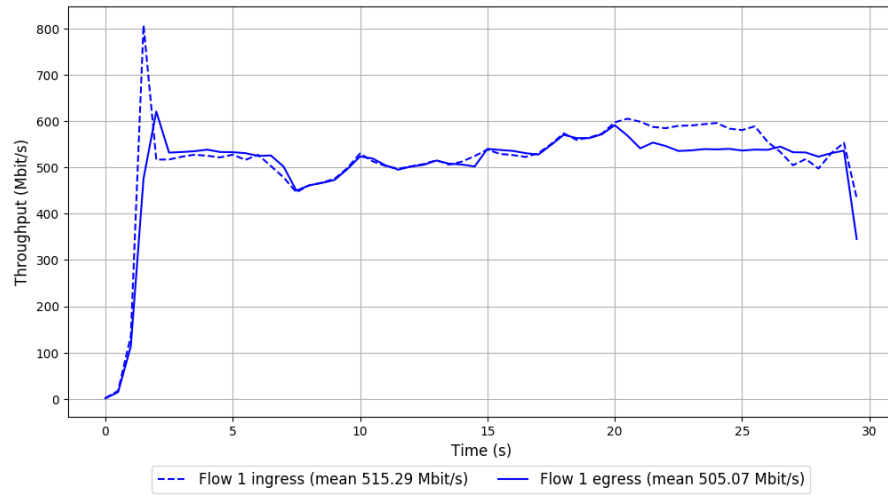


```
Run 1: Statistics of PCC

Start at: 2018-03-27 03:39:34
End at: 2018-03-27 03:40:04

# Below is generated by plot.py at 2018-03-27 08:49:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 505.07 Mbit/s
95th percentile per-packet one-way delay: 176.444 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 505.07 Mbit/s
95th percentile per-packet one-way delay: 176.444 ms
Loss rate: 2.33%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-03-27 03:53:46

End at: 2018-03-27 03:54:16

Below is generated by plot.py at 2018-03-27 08:50:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.94 Mbit/s

95th percentile per-packet one-way delay: 107.447 ms

Loss rate: 0.80%

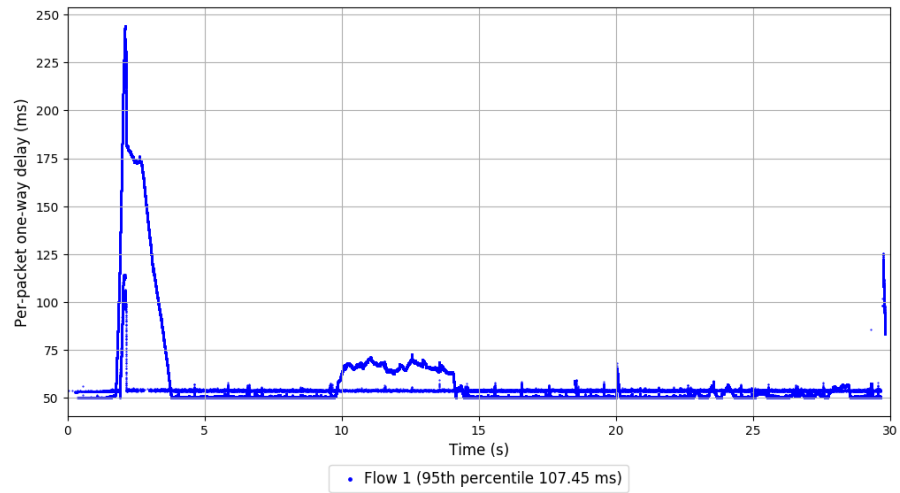
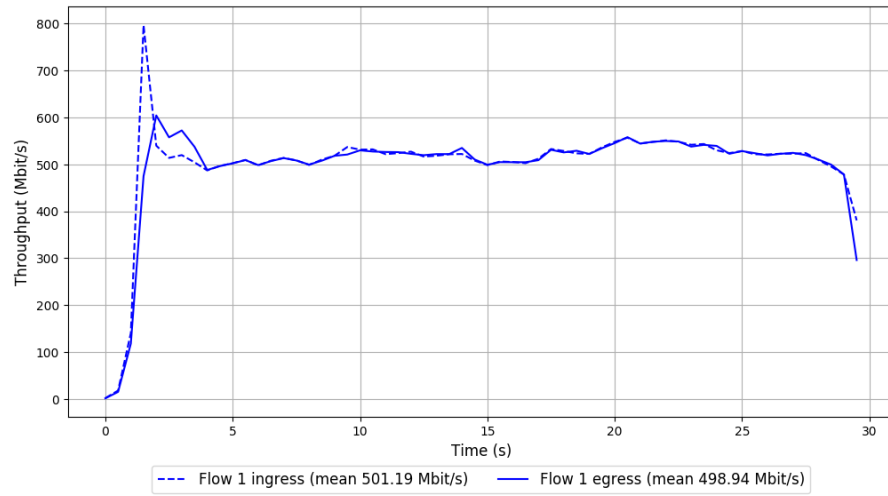
-- Flow 1:

Average throughput: 498.94 Mbit/s

95th percentile per-packet one-way delay: 107.447 ms

Loss rate: 0.80%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-03-27 04:07:55

End at: 2018-03-27 04:08:25

Below is generated by plot.py at 2018-03-27 08:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 563.38 Mbit/s

95th percentile per-packet one-way delay: 150.832 ms

Loss rate: 0.60%

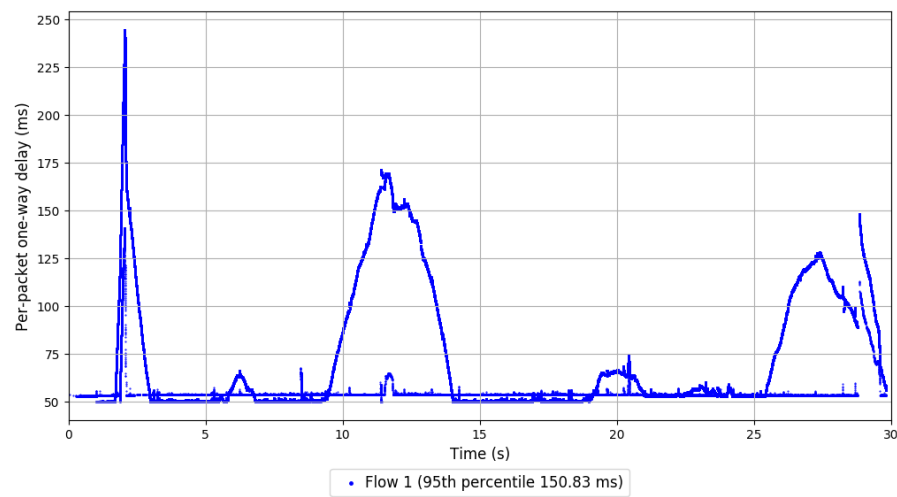
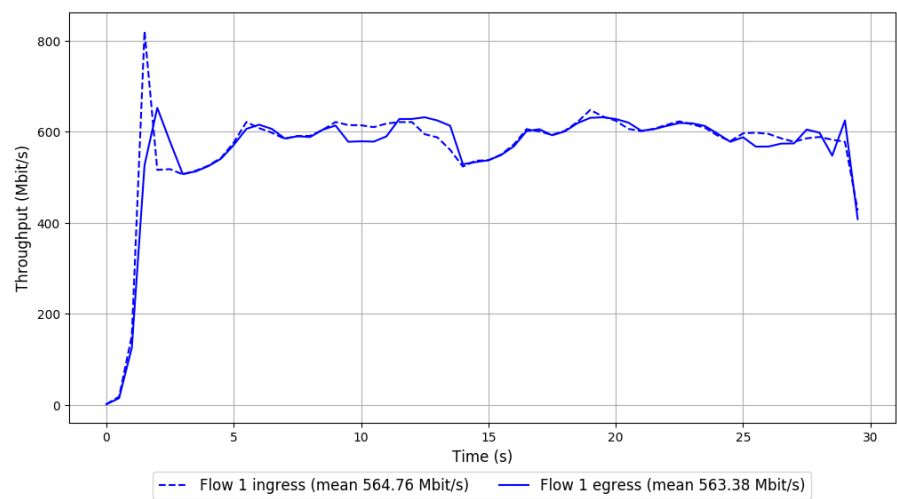
-- Flow 1:

Average throughput: 563.38 Mbit/s

95th percentile per-packet one-way delay: 150.832 ms

Loss rate: 0.60%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-03-27 04:22:16

End at: 2018-03-27 04:22:46

Below is generated by plot.py at 2018-03-27 08:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.85 Mbit/s

95th percentile per-packet one-way delay: 179.145 ms

Loss rate: 2.91%

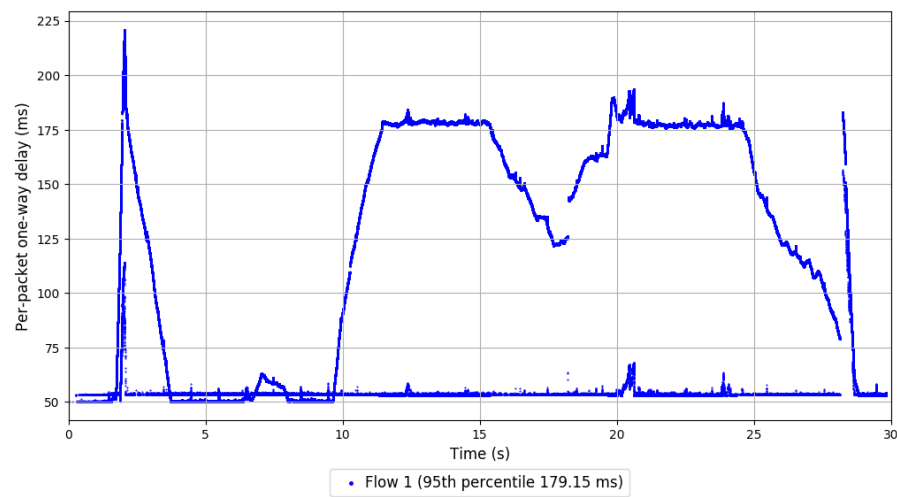
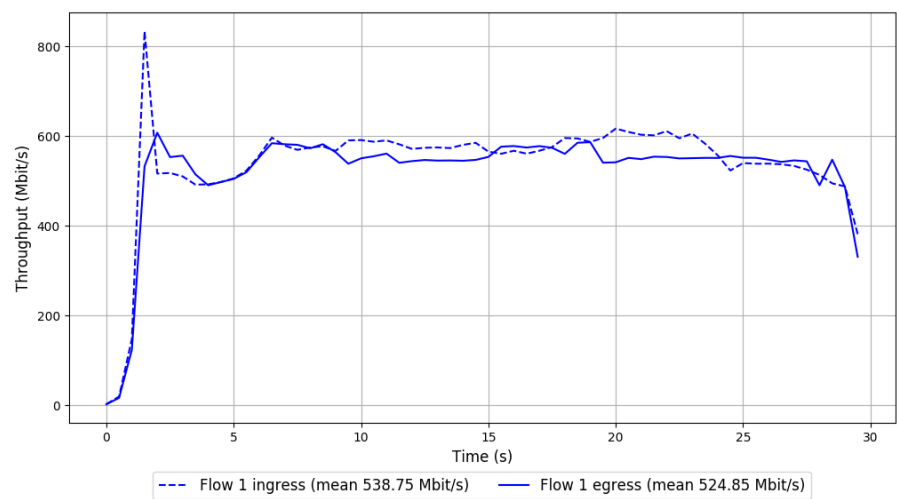
-- Flow 1:

Average throughput: 524.85 Mbit/s

95th percentile per-packet one-way delay: 179.145 ms

Loss rate: 2.91%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-03-27 04:36:20

End at: 2018-03-27 04:36:50

Below is generated by plot.py at 2018-03-27 08:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 517.68 Mbit/s

95th percentile per-packet one-way delay: 130.959 ms

Loss rate: 0.57%

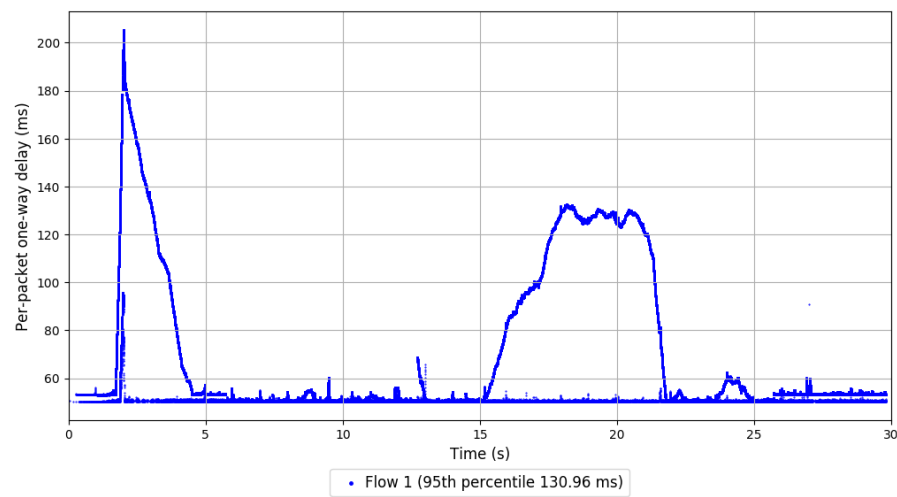
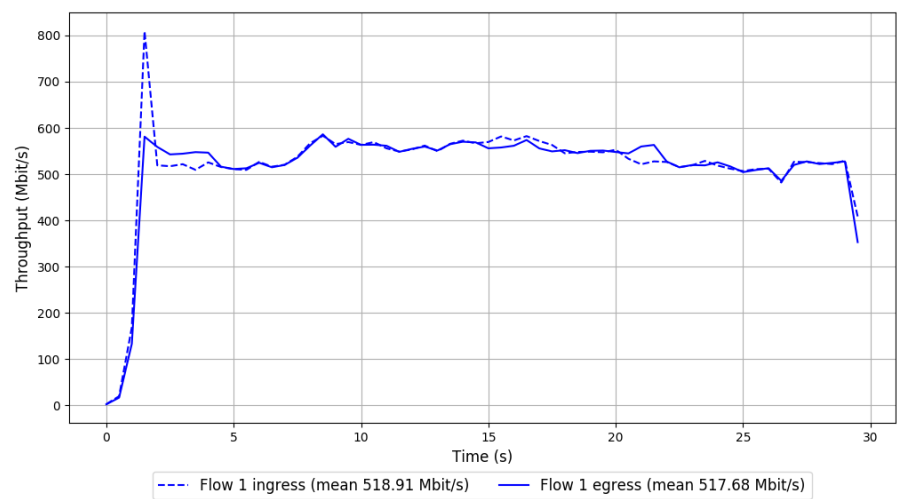
-- Flow 1:

Average throughput: 517.68 Mbit/s

95th percentile per-packet one-way delay: 130.959 ms

Loss rate: 0.57%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-03-27 04:50:46

End at: 2018-03-27 04:51:16

Below is generated by plot.py at 2018-03-27 08:51:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.08 Mbit/s

95th percentile per-packet one-way delay: 107.582 ms

Loss rate: 0.63%

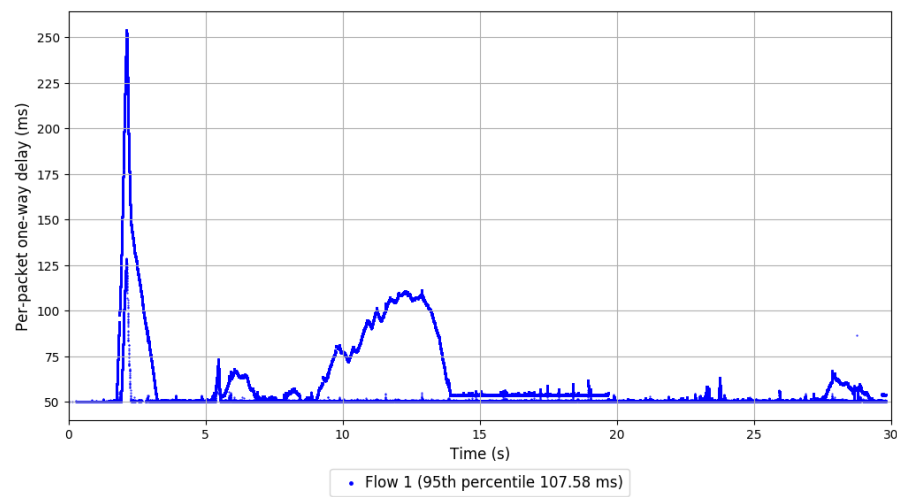
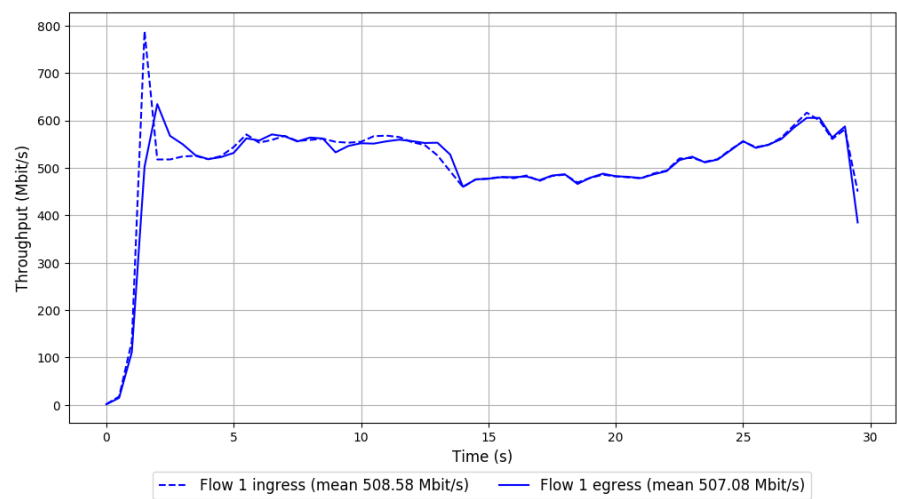
-- Flow 1:

Average throughput: 507.08 Mbit/s

95th percentile per-packet one-way delay: 107.582 ms

Loss rate: 0.63%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-03-27 05:04:55

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

Below is generated by plot.py at 2018-03-27 08:51:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 531.25 Mbit/s

95th percentile per-packet one-way delay: 164.764 ms

Loss rate: 1.16%

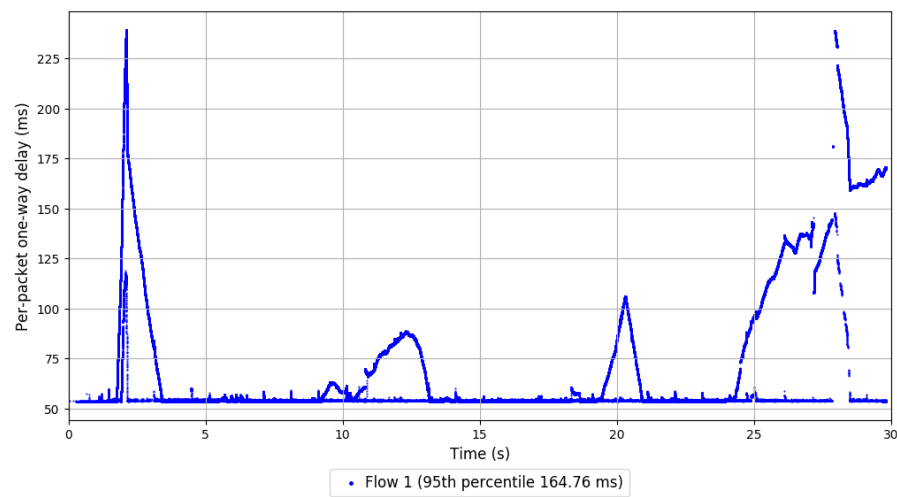
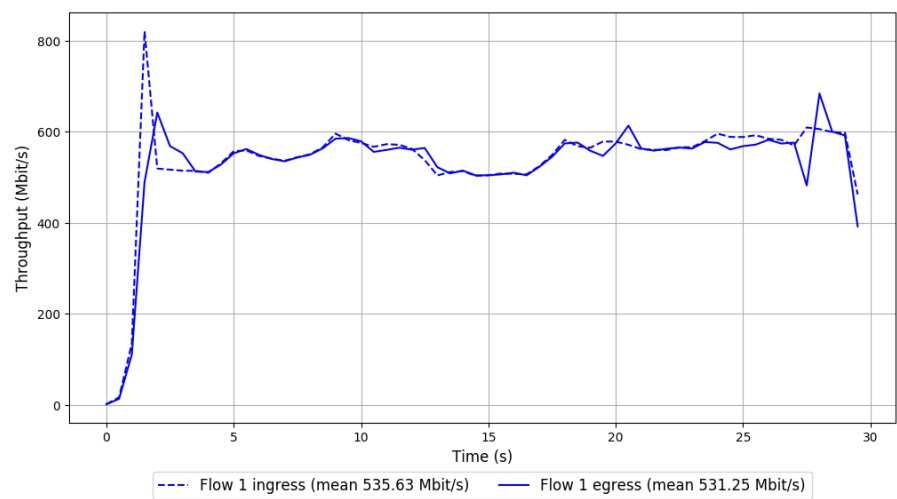
-- Flow 1:

Average throughput: 531.25 Mbit/s

95th percentile per-packet one-way delay: 164.764 ms

Loss rate: 1.16%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-03-27 05:19:23

End at: 2018-03-27 05:19:53

Below is generated by plot.py at 2018-03-27 08:51:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.35 Mbit/s

95th percentile per-packet one-way delay: 71.921 ms

Loss rate: 0.36%

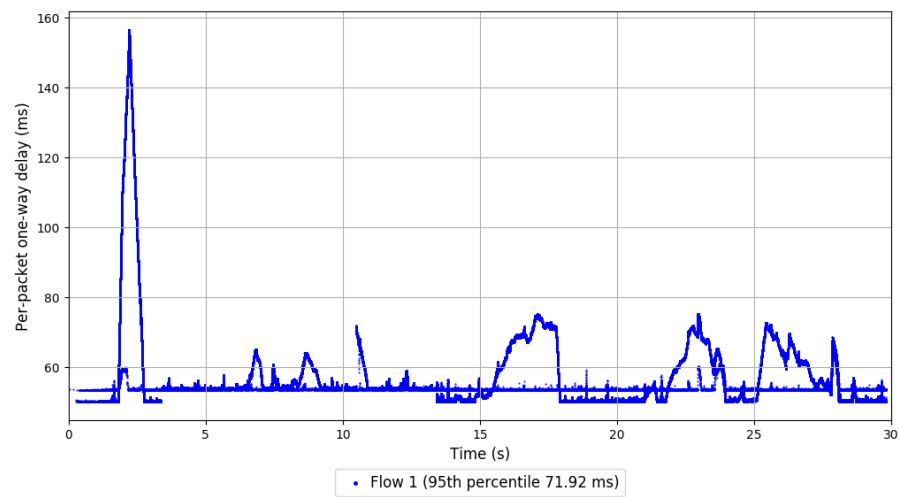
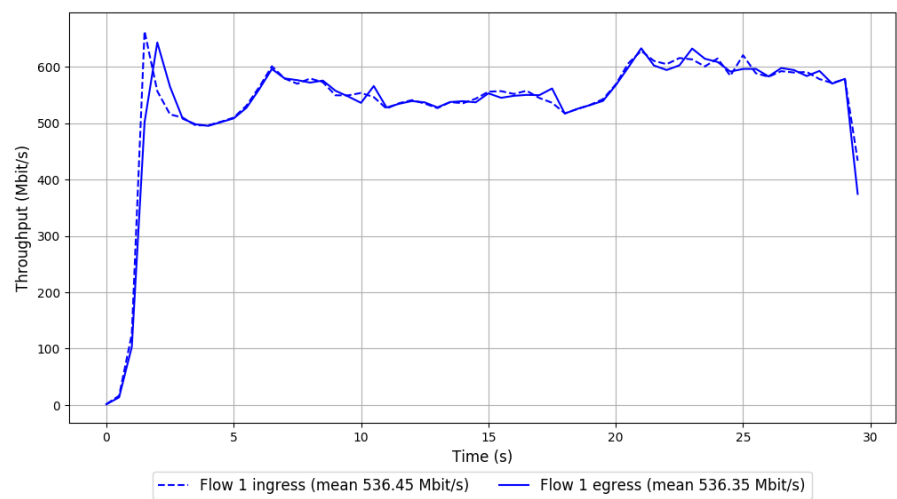
-- Flow 1:

Average throughput: 536.35 Mbit/s

95th percentile per-packet one-way delay: 71.921 ms

Loss rate: 0.36%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-03-27 05:33:34

End at: 2018-03-27 05:34:04

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.26 Mbit/s

95th percentile per-packet one-way delay: 119.329 ms

Loss rate: 0.69%

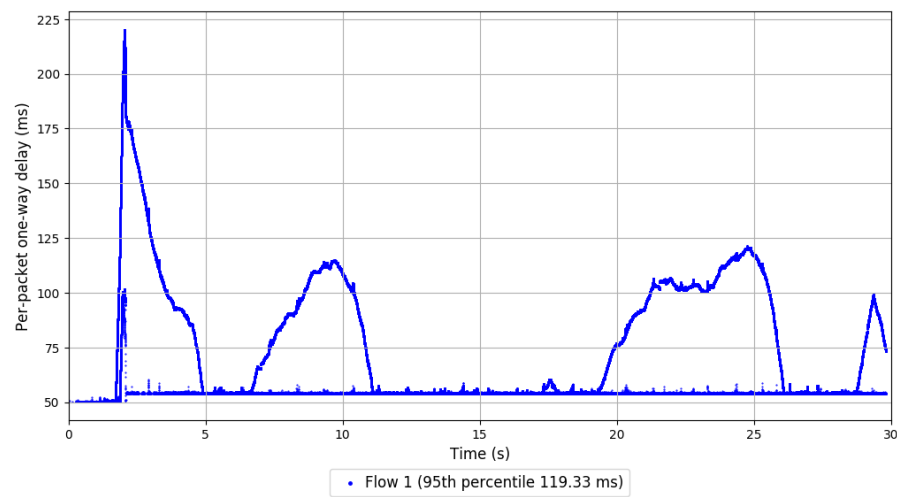
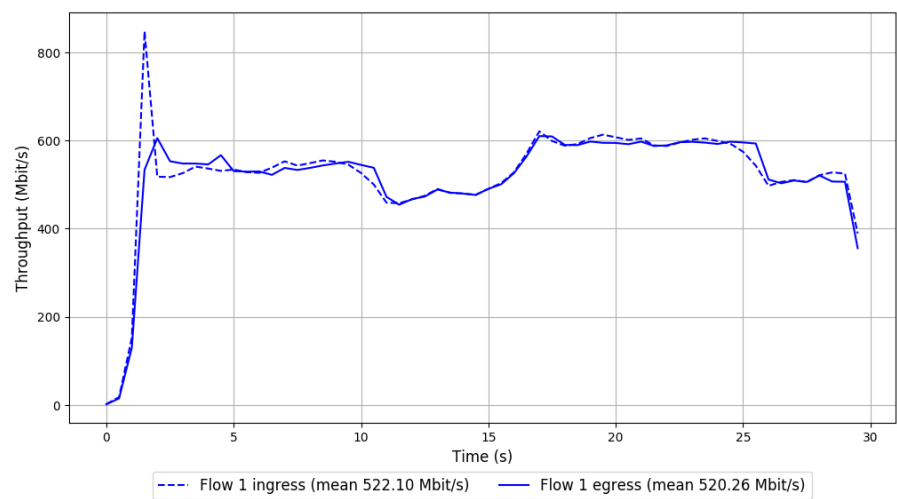
-- Flow 1:

Average throughput: 520.26 Mbit/s

95th percentile per-packet one-way delay: 119.329 ms

Loss rate: 0.69%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-03-27 05:47:59

End at: 2018-03-27 05:48:29

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.21 Mbit/s

95th percentile per-packet one-way delay: 73.413 ms

Loss rate: 0.60%

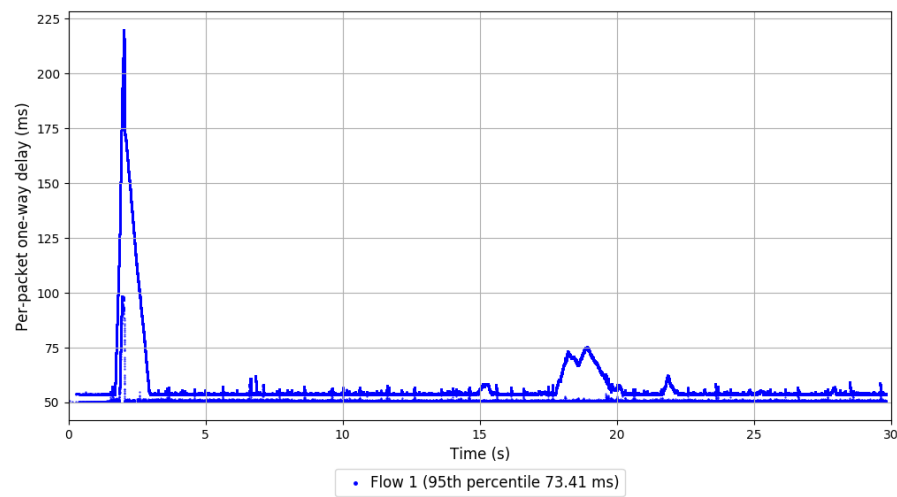
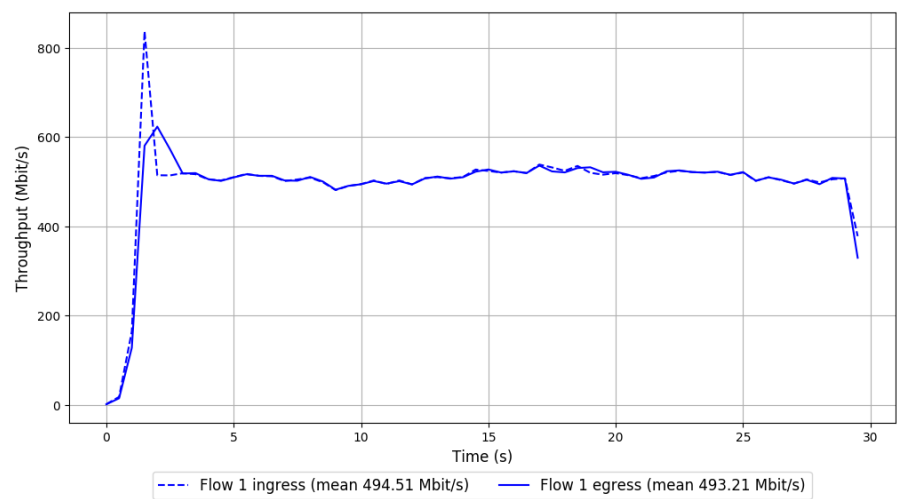
-- Flow 1:

Average throughput: 493.21 Mbit/s

95th percentile per-packet one-way delay: 73.413 ms

Loss rate: 0.60%

Run 10: Report of PCC — Data Link

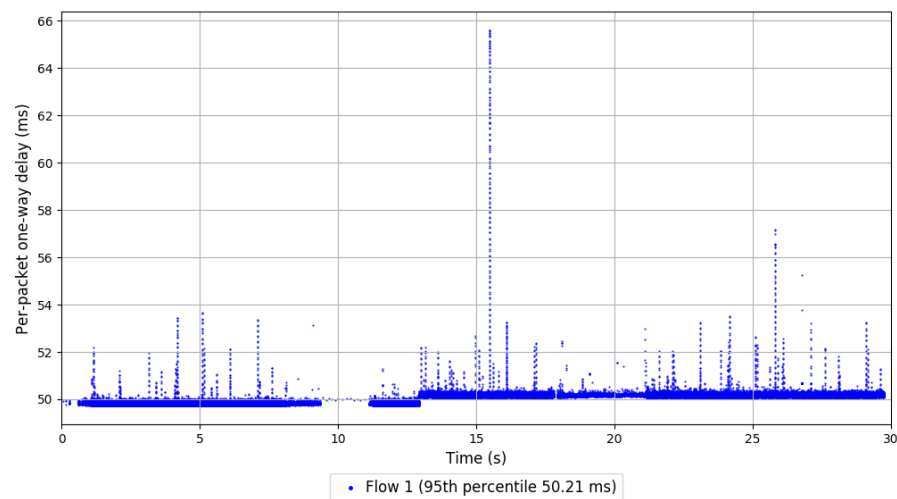
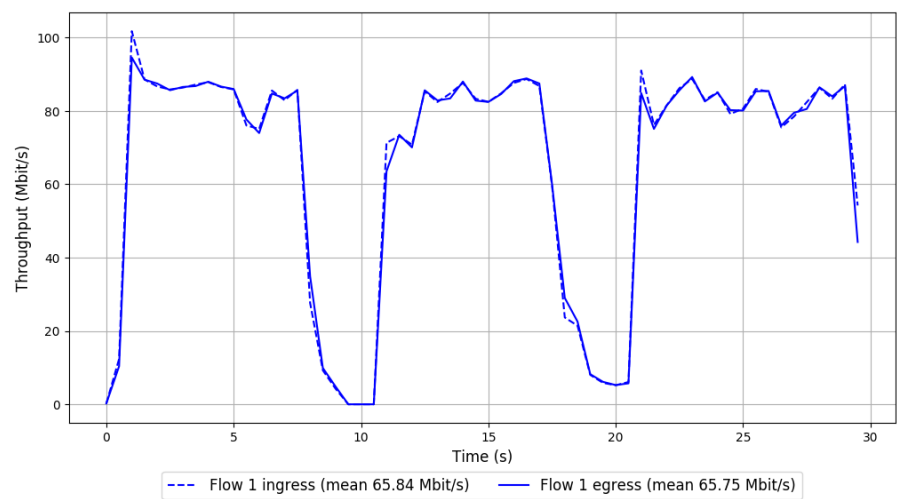


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-03-27 03:41:13
End at: 2018-03-27 03:41:43

# Below is generated by plot.py at 2018-03-27 09:01:14
# Datalink statistics
-- Total of 1 flow:
Average throughput: 65.75 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 65.75 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 0.47%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-03-27 03:55:24

End at: 2018-03-27 03:55:54

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.67 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.47%

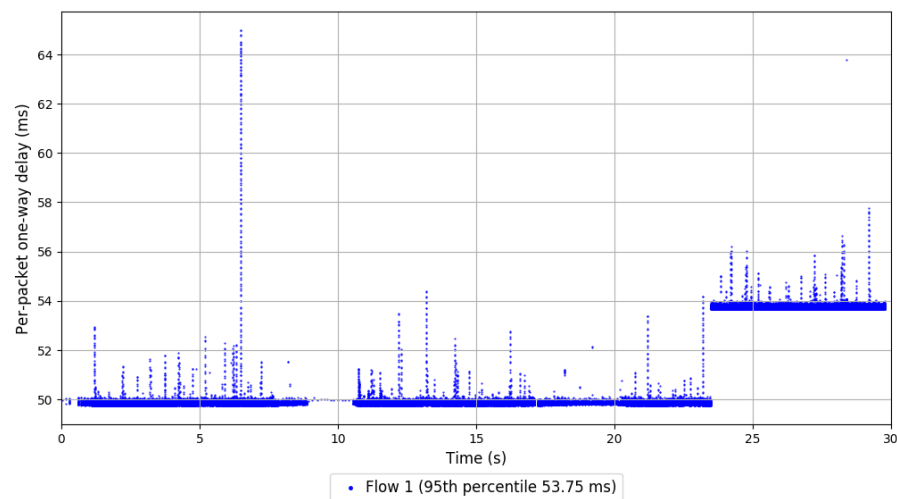
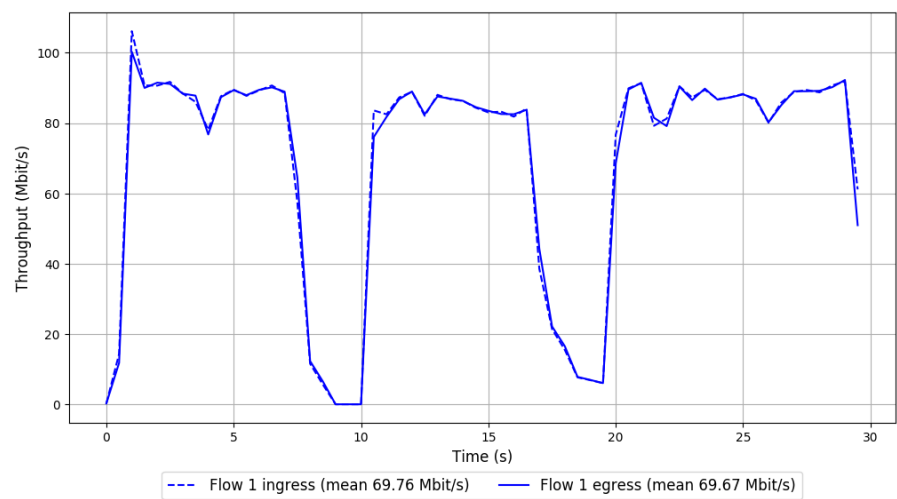
-- Flow 1:

Average throughput: 69.67 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.47%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-03-27 04:09:35

End at: 2018-03-27 04:10:05

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.52%

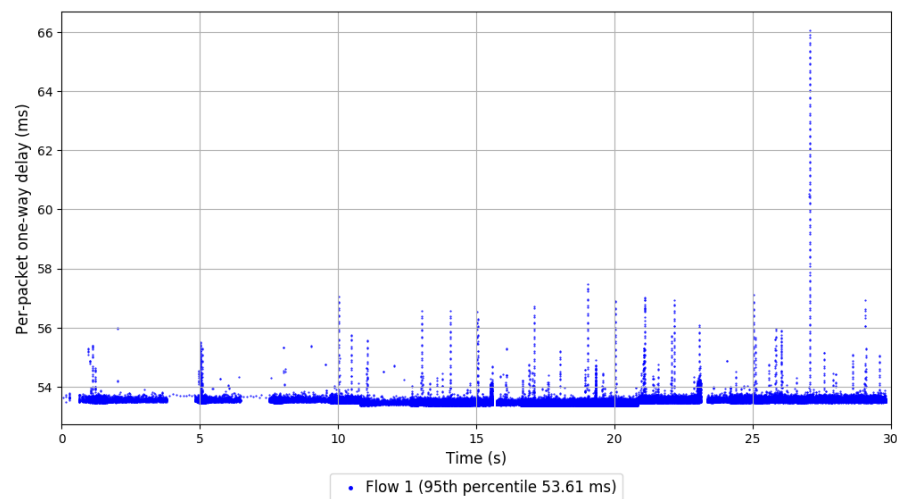
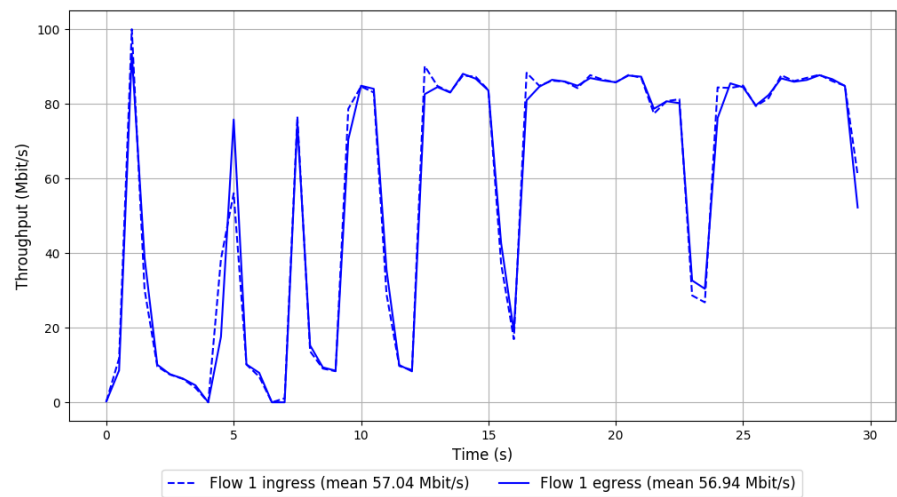
-- Flow 1:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 53.610 ms

Loss rate: 0.52%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-03-27 04:23:55

End at: 2018-03-27 04:24:25

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.37 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 0.40%

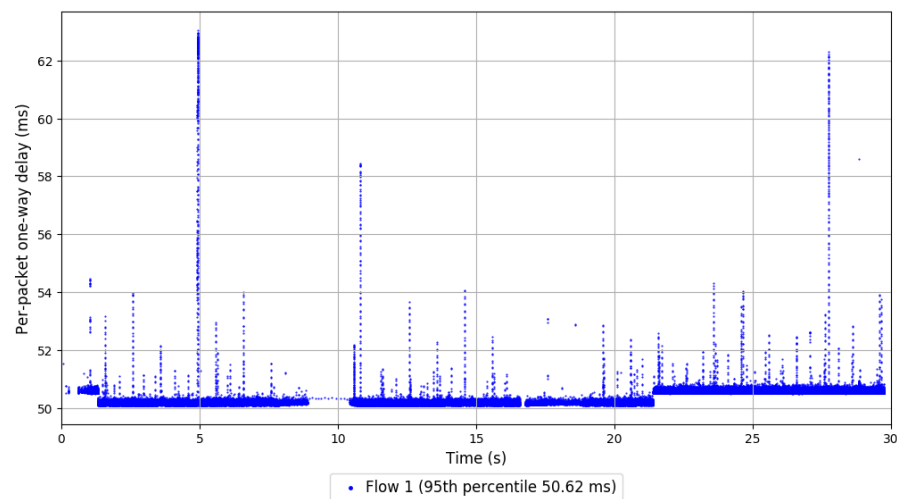
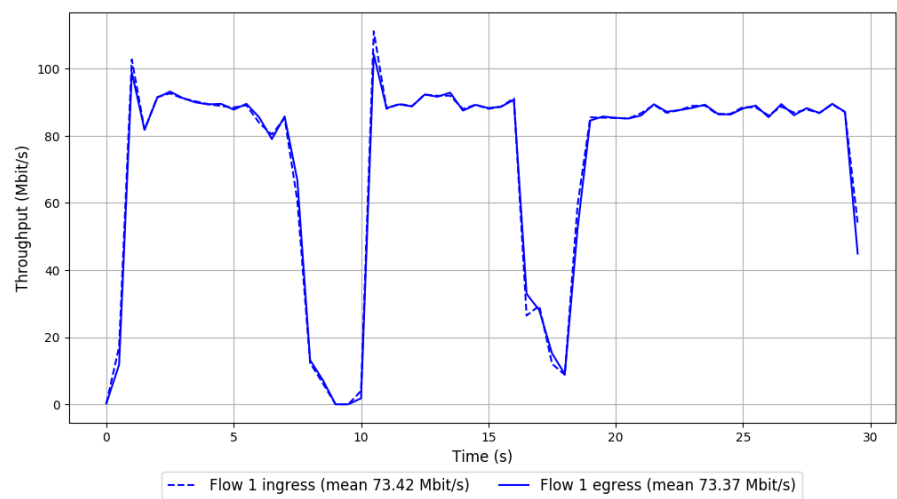
-- Flow 1:

Average throughput: 73.37 Mbit/s

95th percentile per-packet one-way delay: 50.619 ms

Loss rate: 0.40%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-03-27 04:38:11

End at: 2018-03-27 04:38:41

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.67 Mbit/s

95th percentile per-packet one-way delay: 50.334 ms

Loss rate: 0.40%

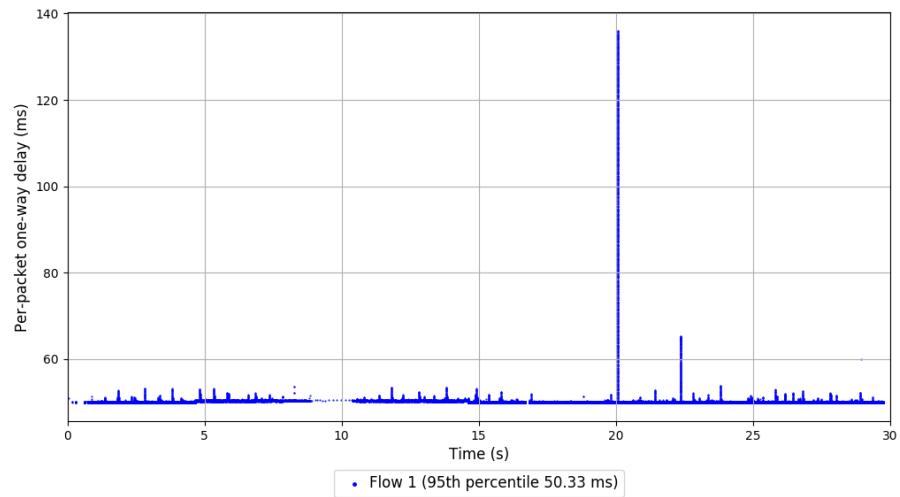
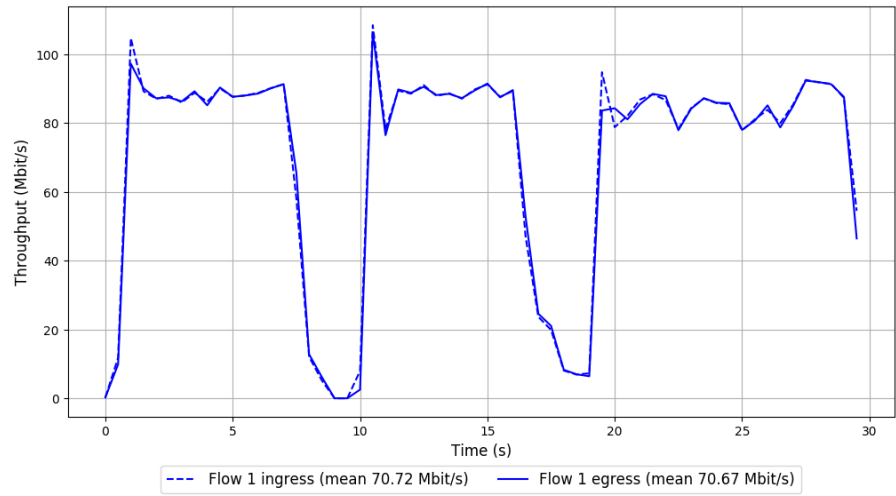
-- Flow 1:

Average throughput: 70.67 Mbit/s

95th percentile per-packet one-way delay: 50.334 ms

Loss rate: 0.40%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-03-27 04:52:23

End at: 2018-03-27 04:52:53

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.83 Mbit/s

95th percentile per-packet one-way delay: 53.289 ms

Loss rate: 0.42%

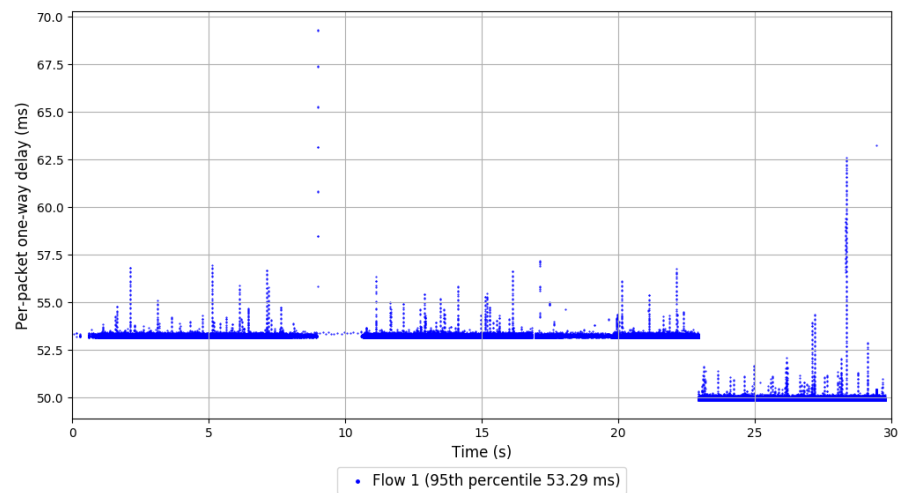
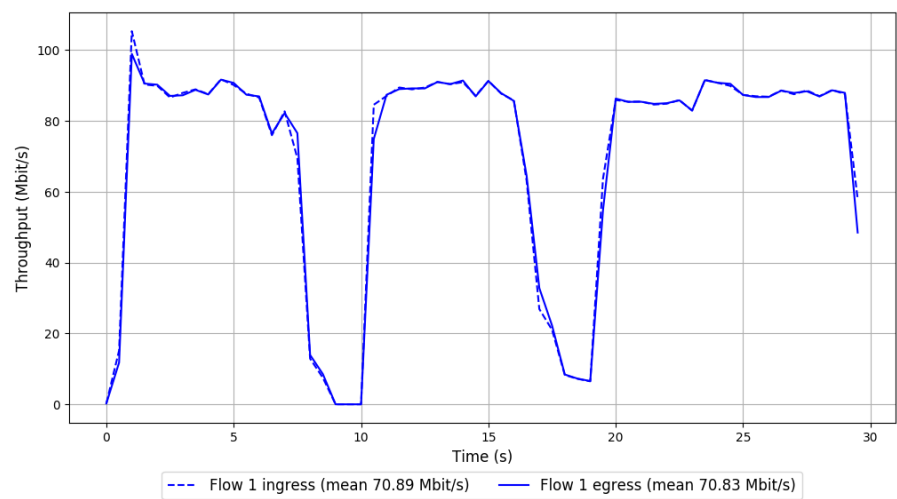
-- Flow 1:

Average throughput: 70.83 Mbit/s

95th percentile per-packet one-way delay: 53.289 ms

Loss rate: 0.42%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-03-27 05:06:34

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

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 49.959 ms

Loss rate: 0.41%

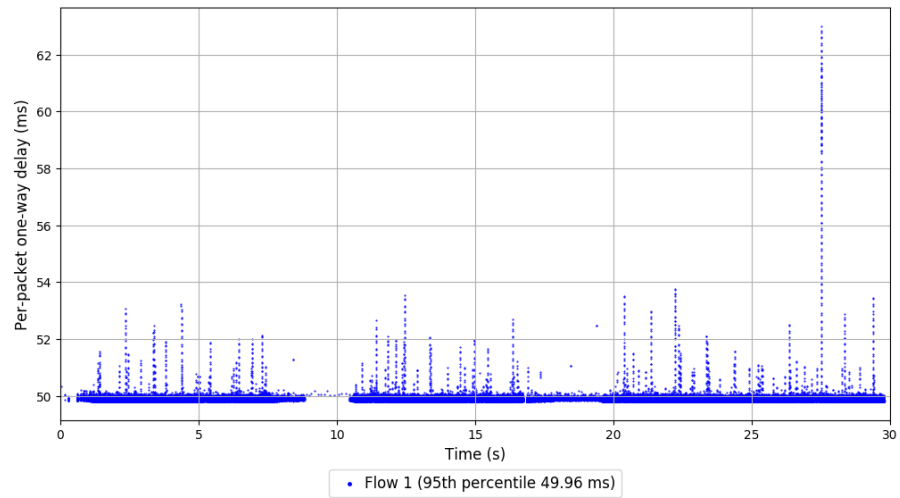
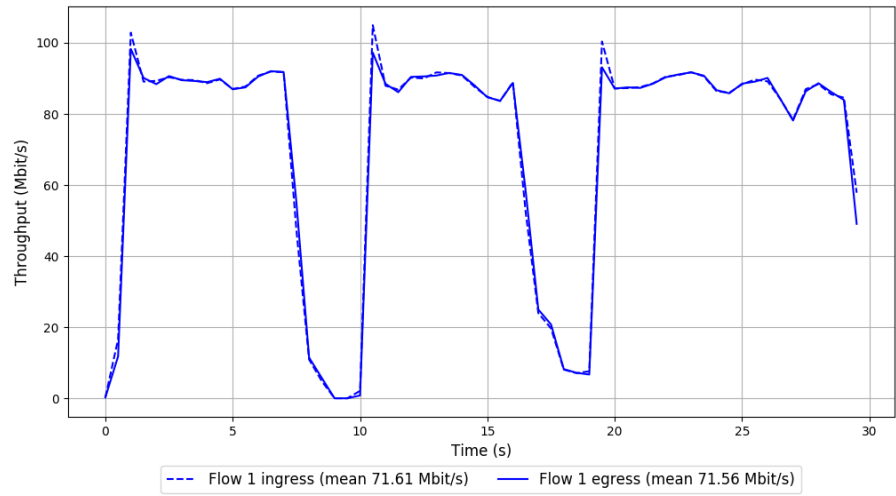
-- Flow 1:

Average throughput: 71.56 Mbit/s

95th percentile per-packet one-way delay: 49.959 ms

Loss rate: 0.41%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-03-27 05:21:02

End at: 2018-03-27 05:21:32

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.40%

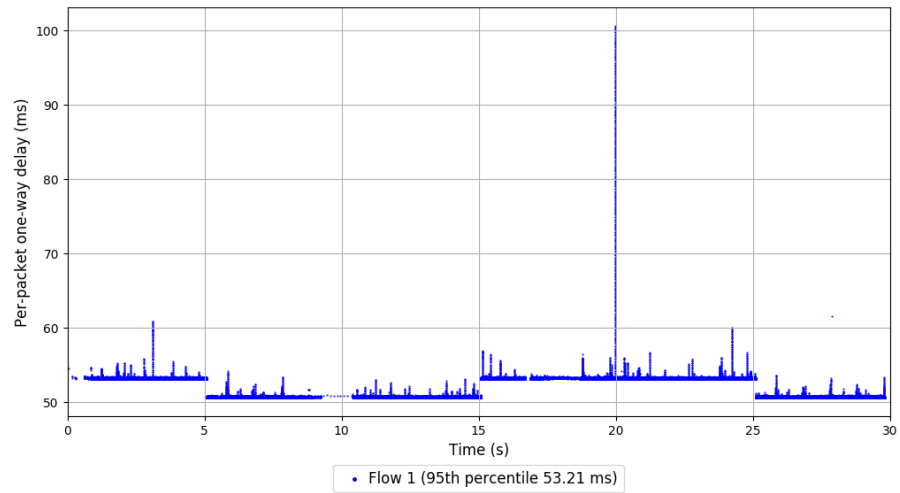
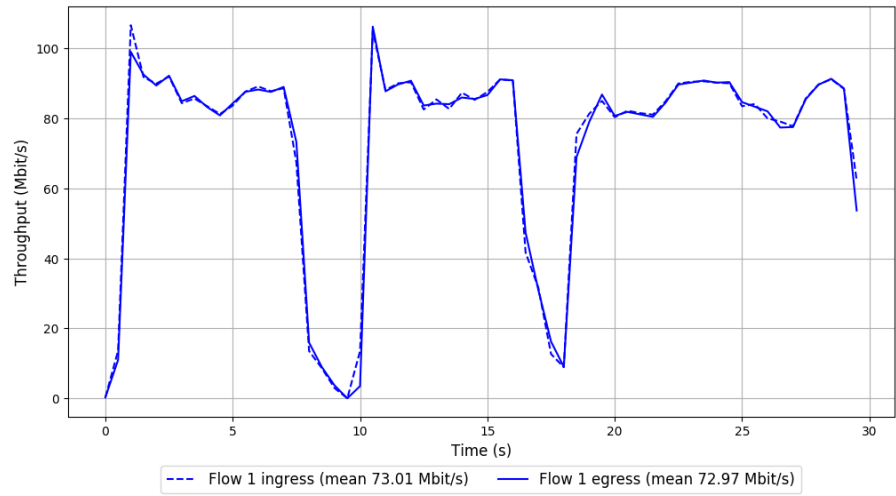
-- Flow 1:

Average throughput: 72.97 Mbit/s

95th percentile per-packet one-way delay: 53.212 ms

Loss rate: 0.40%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-03-27 05:35:17

End at: 2018-03-27 05:35:48

Below is generated by plot.py at 2018-03-27 09:01:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 53.385 ms

Loss rate: 0.45%

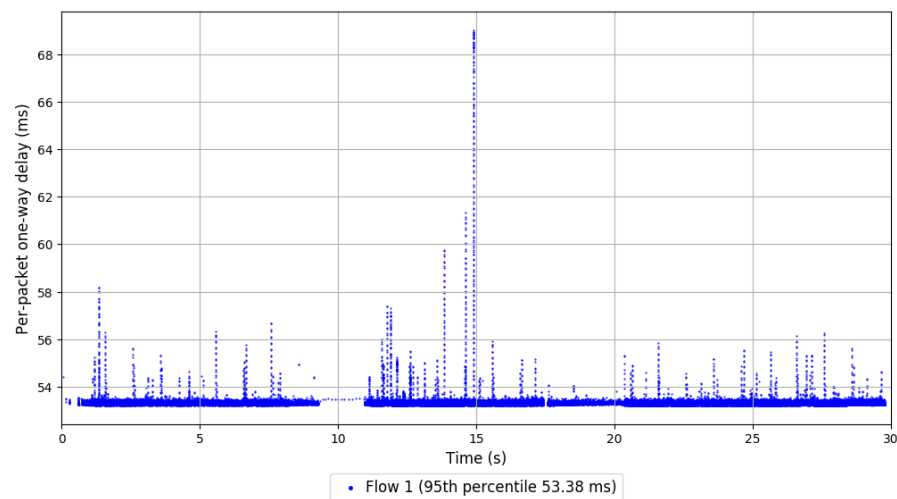
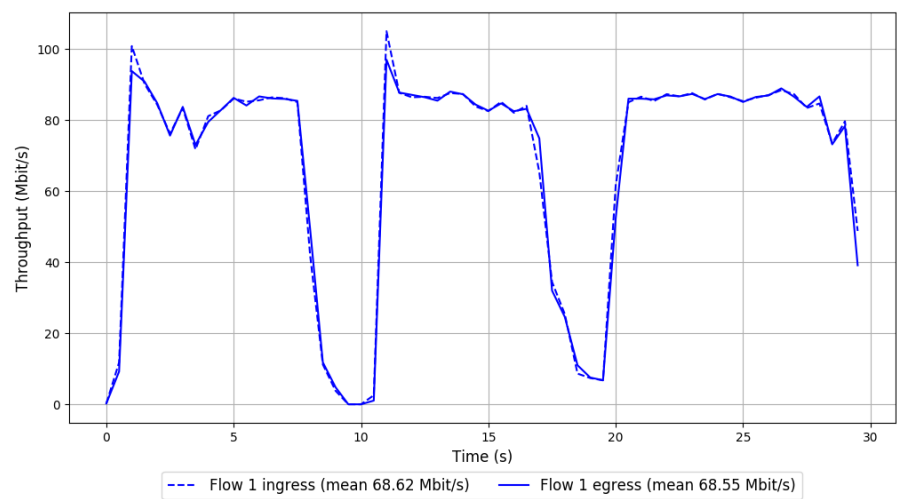
-- Flow 1:

Average throughput: 68.55 Mbit/s

95th percentile per-packet one-way delay: 53.385 ms

Loss rate: 0.45%

Run 9: Report of QUIC Cubic — Data Link

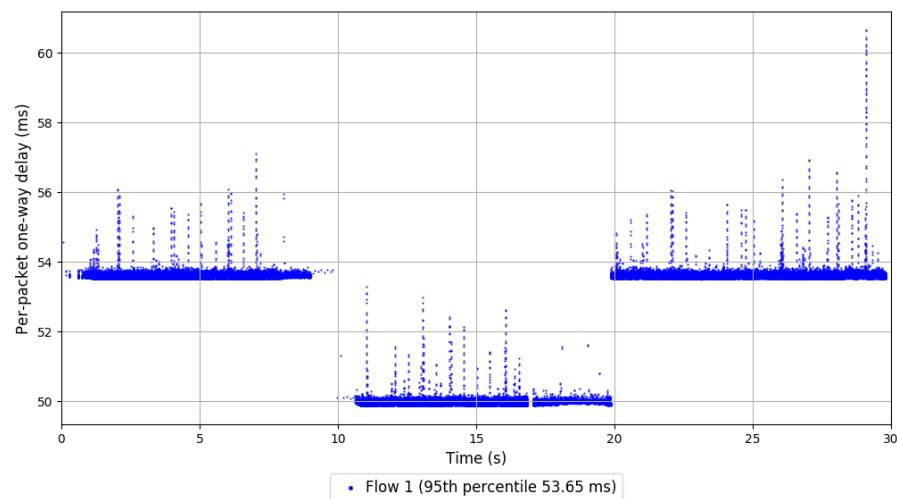
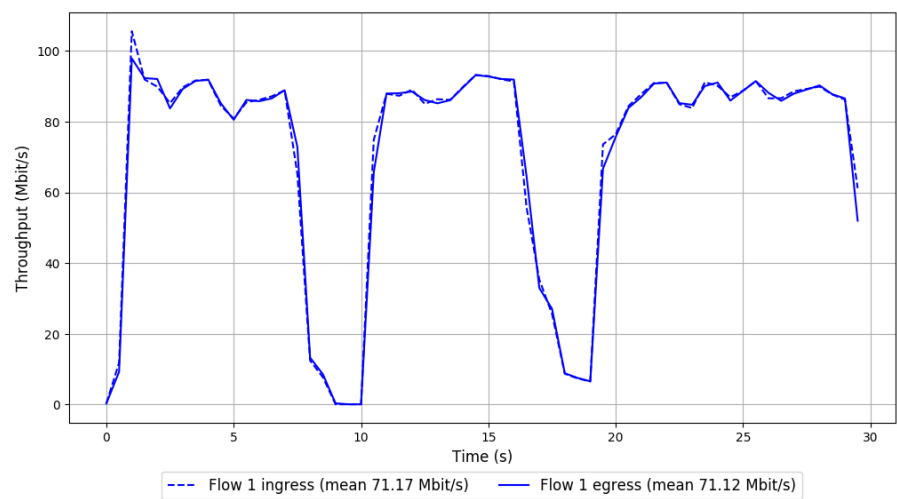


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-03-27 05:49:36
End at: 2018-03-27 05:50:06

# Below is generated by plot.py at 2018-03-27 09:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 71.12 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 71.12 Mbit/s
95th percentile per-packet one-way delay: 53.648 ms
Loss rate: 0.43%
```

Run 10: Report of QUIC Cubic — Data Link

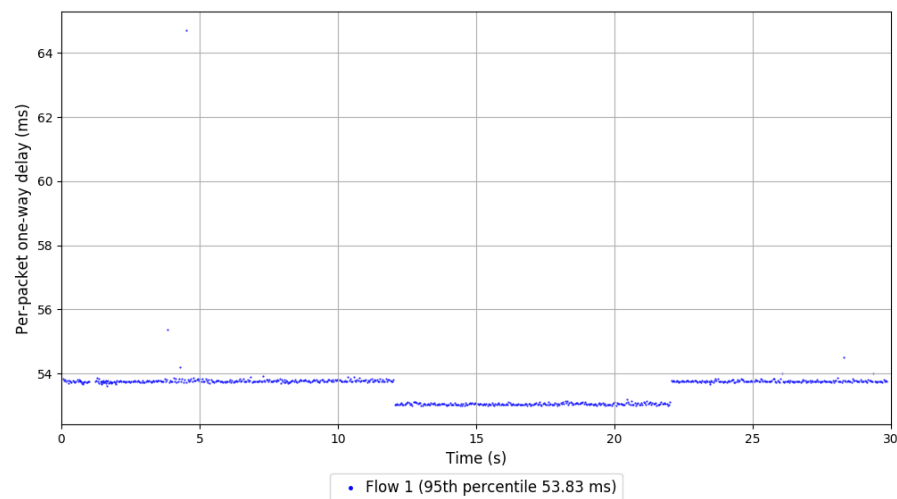
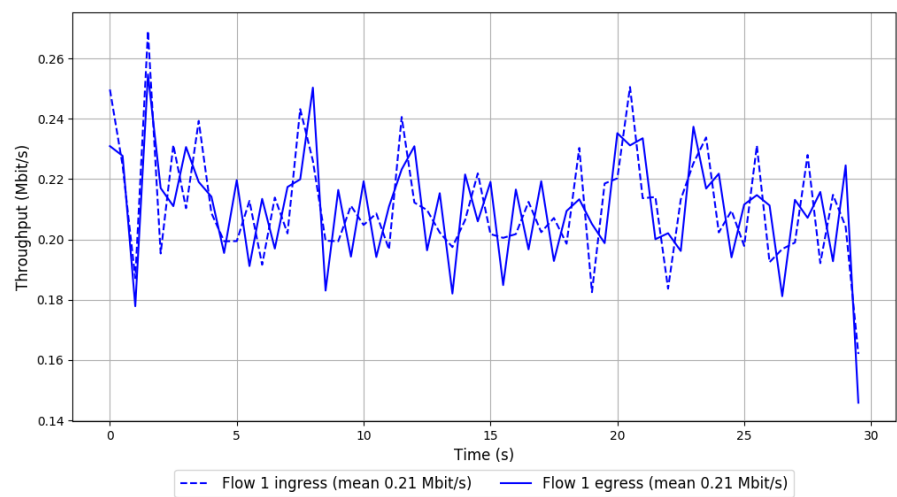


```
Run 1: Statistics of SCReAM

Start at: 2018-03-27 03:30:24
End at: 2018-03-27 03:30:54

# Below is generated by plot.py at 2018-03-27 09:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 0.25%
```

Run 1: Report of SReAM — Data Link

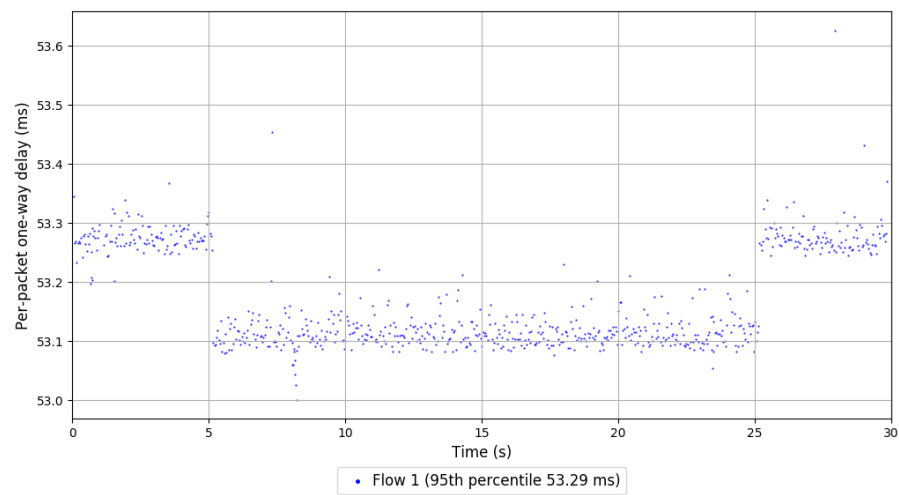
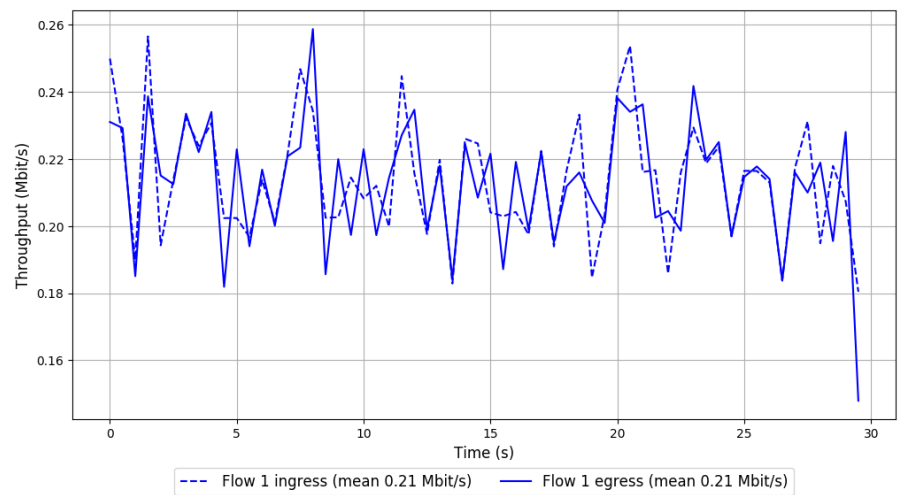


```
Run 2: Statistics of SCReAM

Start at: 2018-03-27 03:44:31
End at: 2018-03-27 03:45:01

# Below is generated by plot.py at 2018-03-27 09:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.294 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.294 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-03-27 03:58:39

End at: 2018-03-27 03:59:09

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

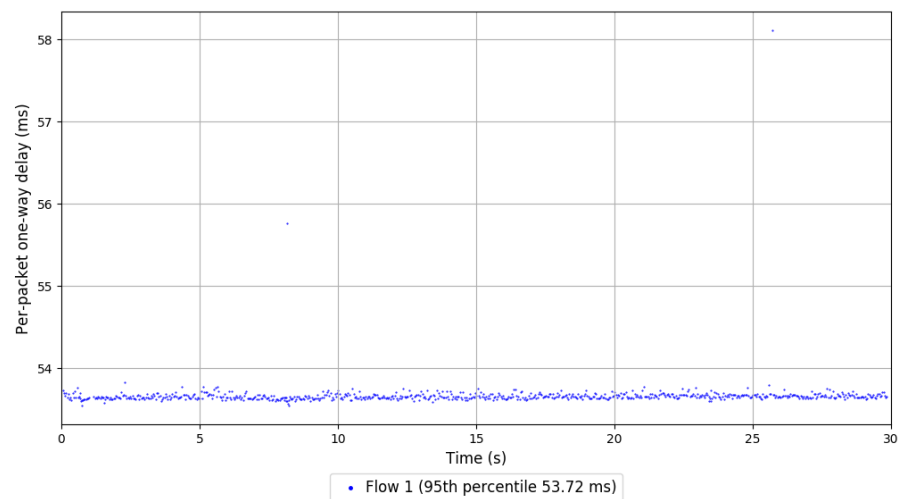
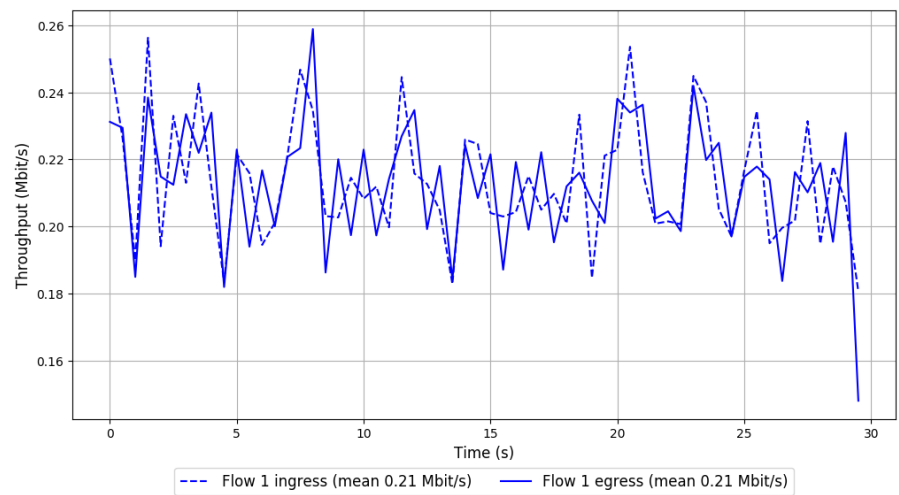
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-03-27 04:12:55

End at: 2018-03-27 04:13:25

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.26%

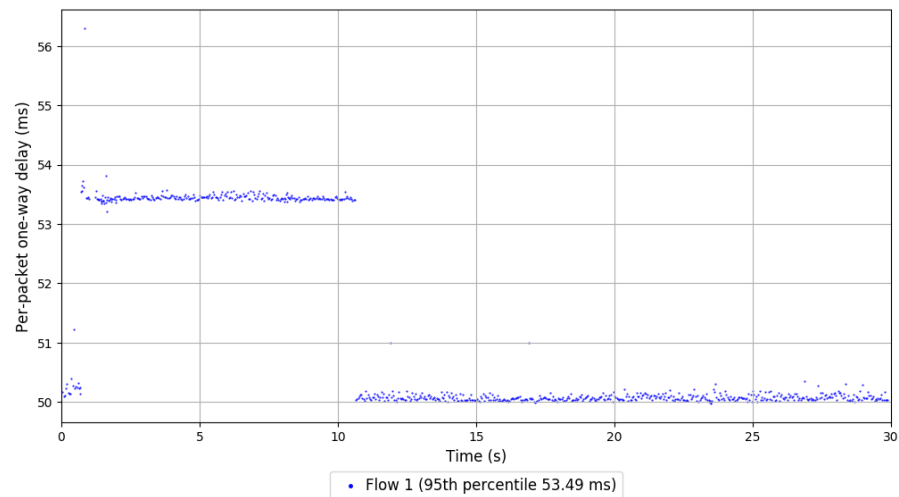
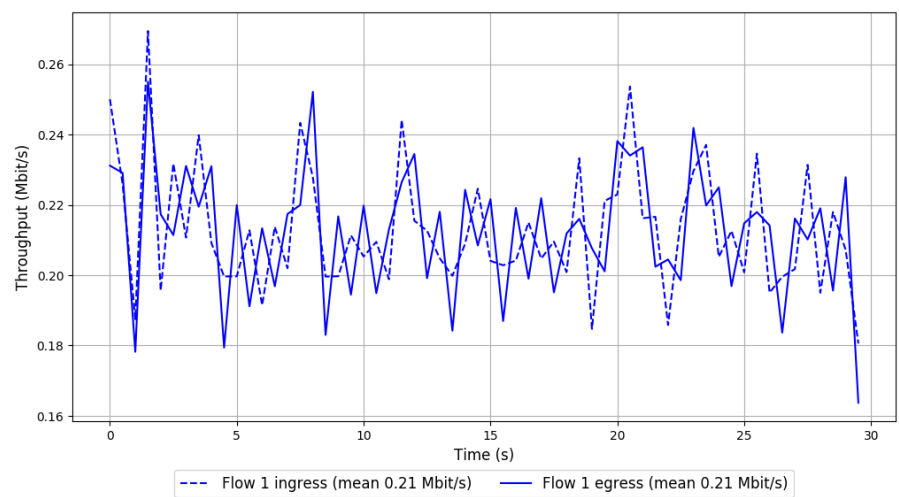
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.488 ms

Loss rate: 0.26%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-03-27 04:27:12

End at: 2018-03-27 04:27:42

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.38%

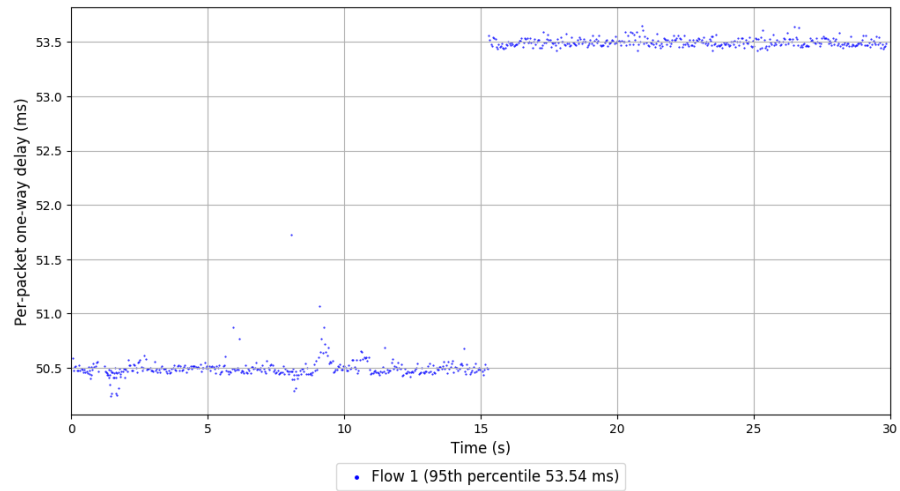
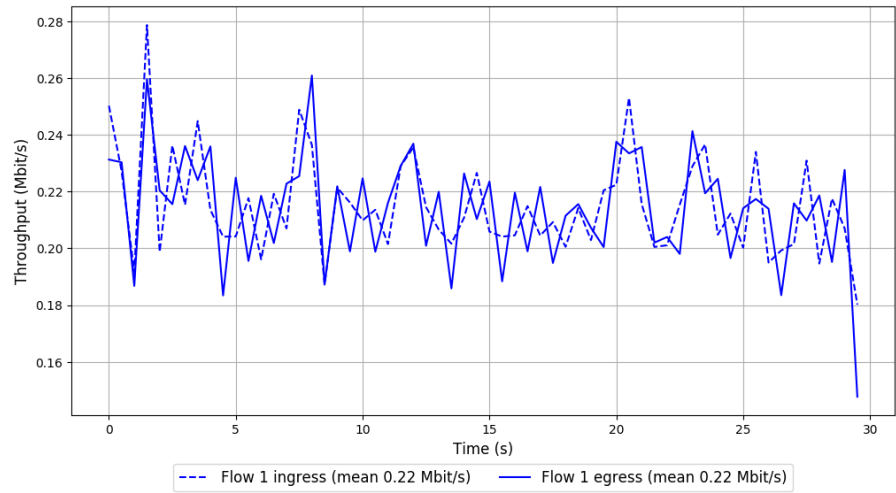
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.542 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-03-27 04:41:30

End at: 2018-03-27 04:42:00

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

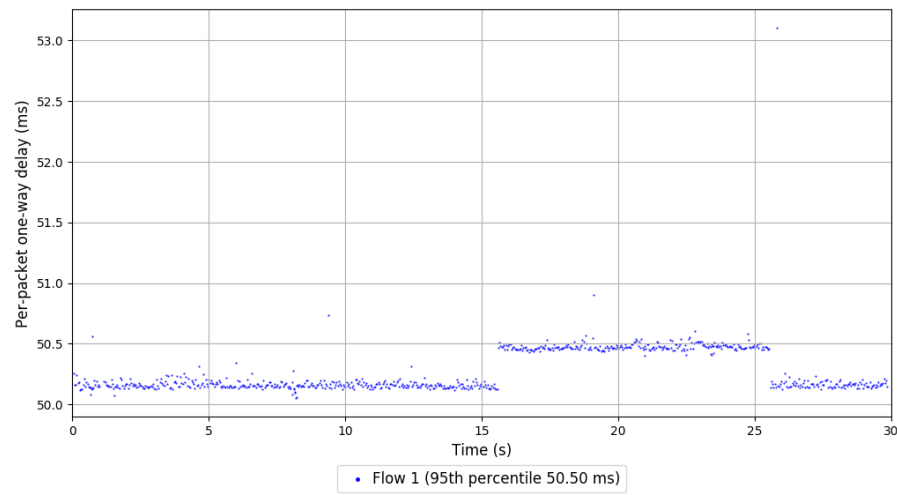
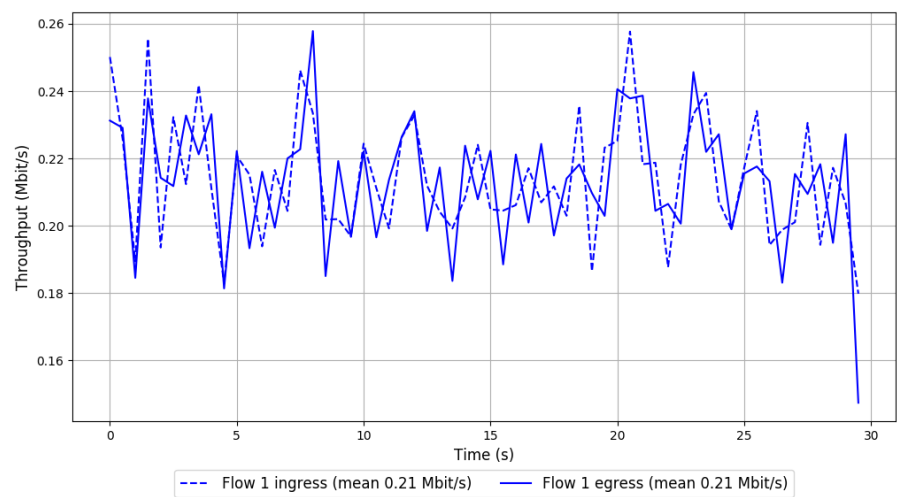
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-03-27 04:55:38

End at: 2018-03-27 04:56:08

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.300 ms

Loss rate: 0.26%

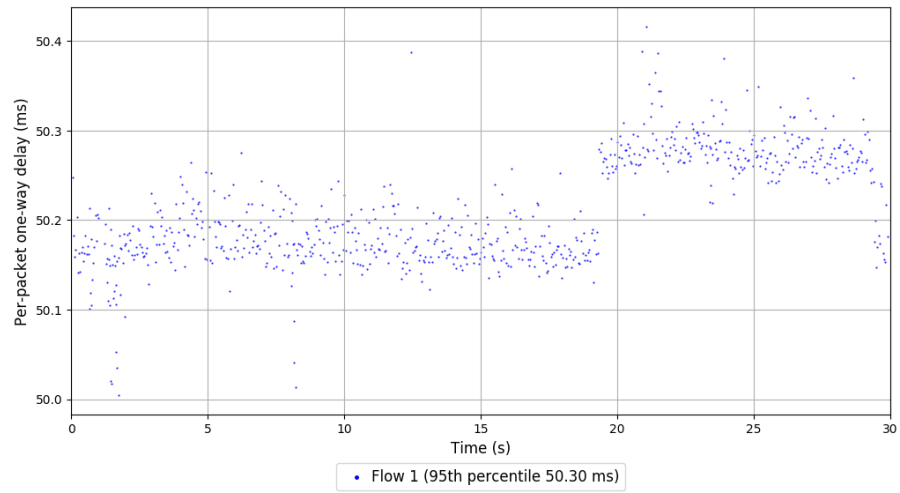
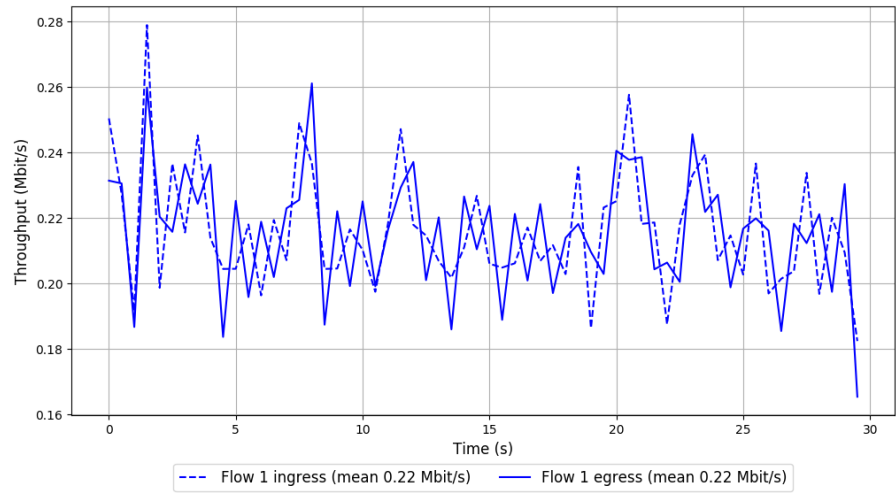
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.300 ms

Loss rate: 0.26%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-03-27 05:09:49

End at: 2018-03-27 05:10:19

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 0.37%

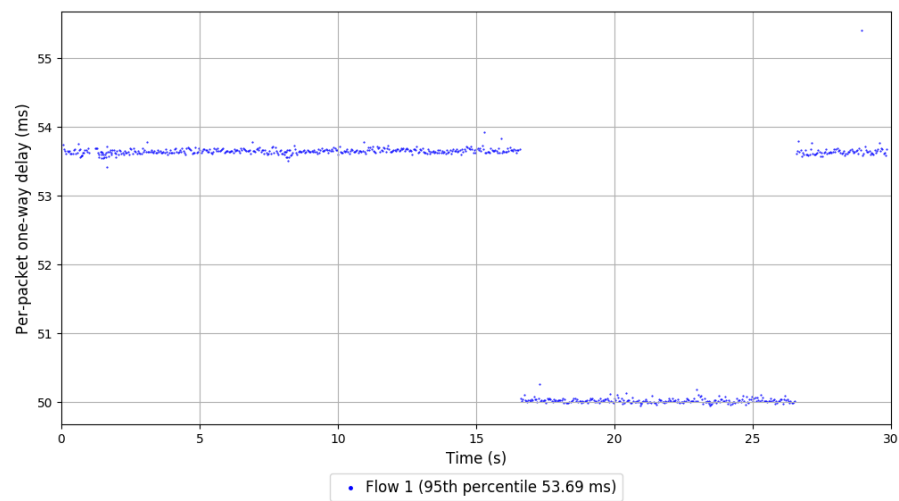
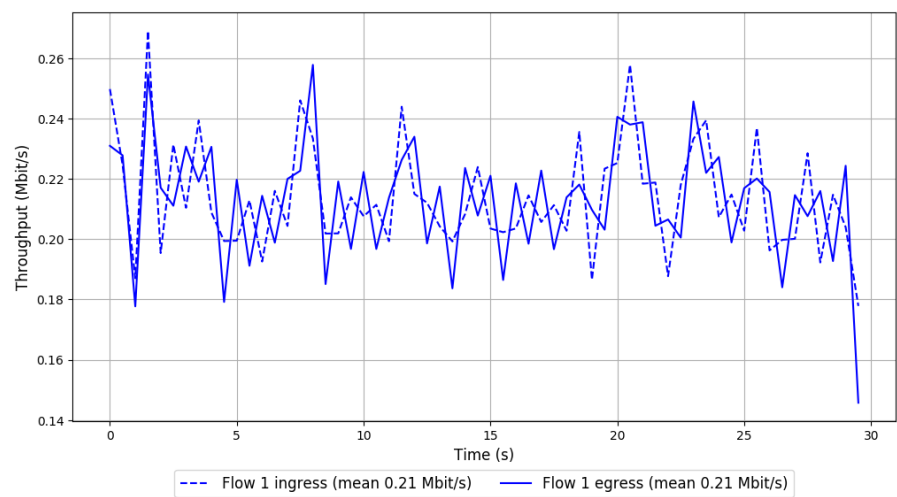
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.692 ms

Loss rate: 0.37%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-03-27 05:24:16

End at: 2018-03-27 05:24:47

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.38%

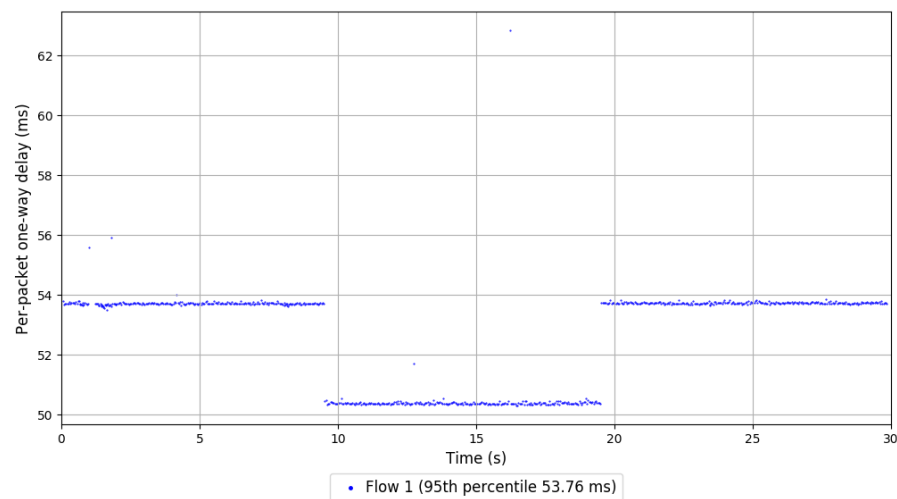
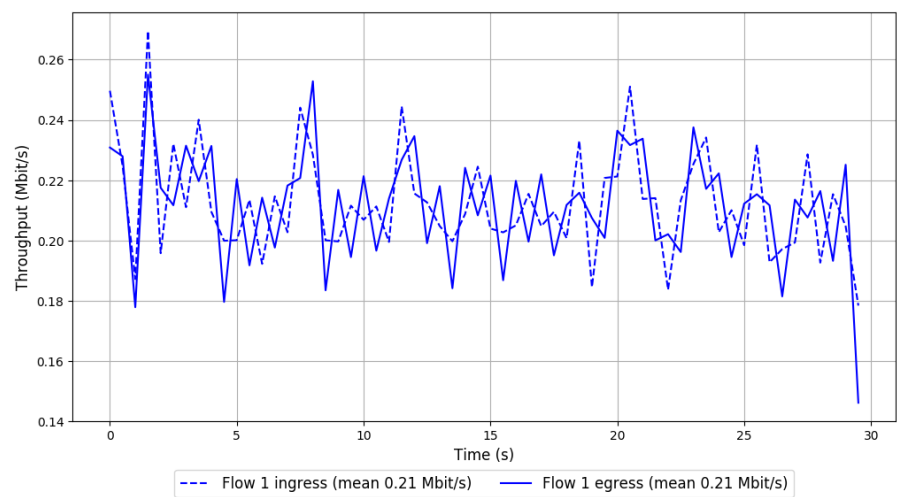
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-03-27 05:38:35

End at: 2018-03-27 05:39:05

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.38%

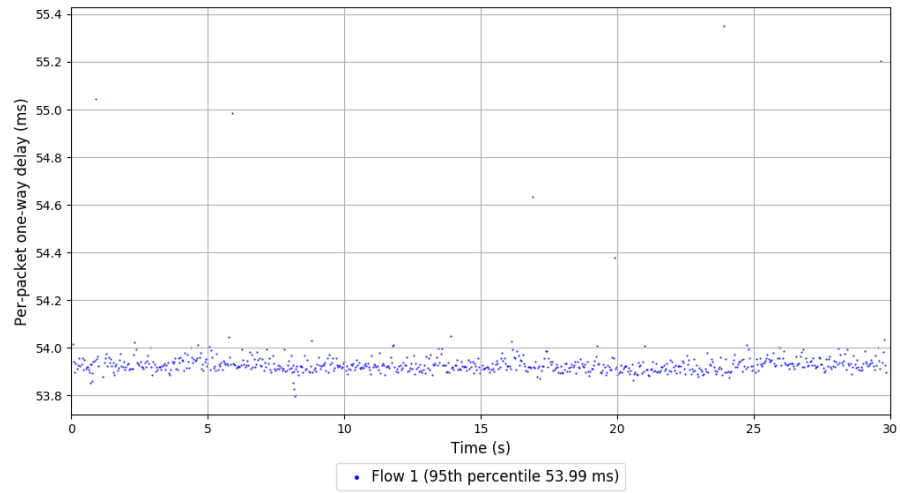
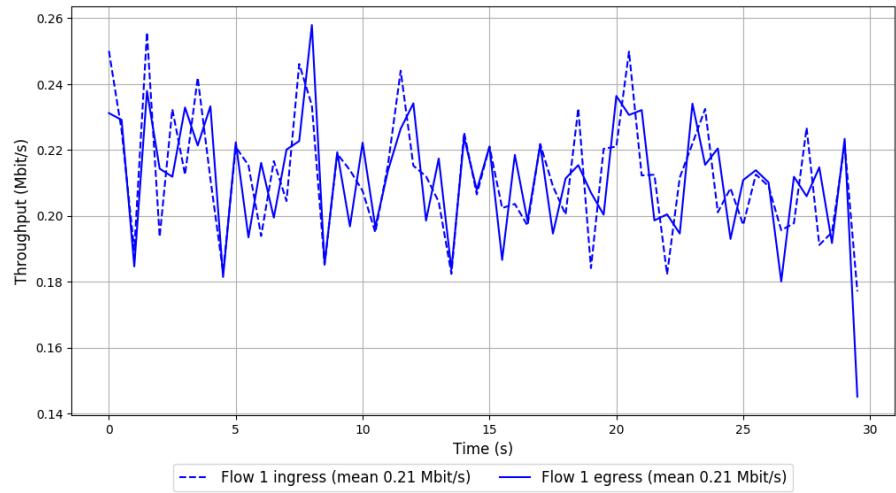
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.987 ms

Loss rate: 0.38%

Run 10: Report of SCReAM — Data Link

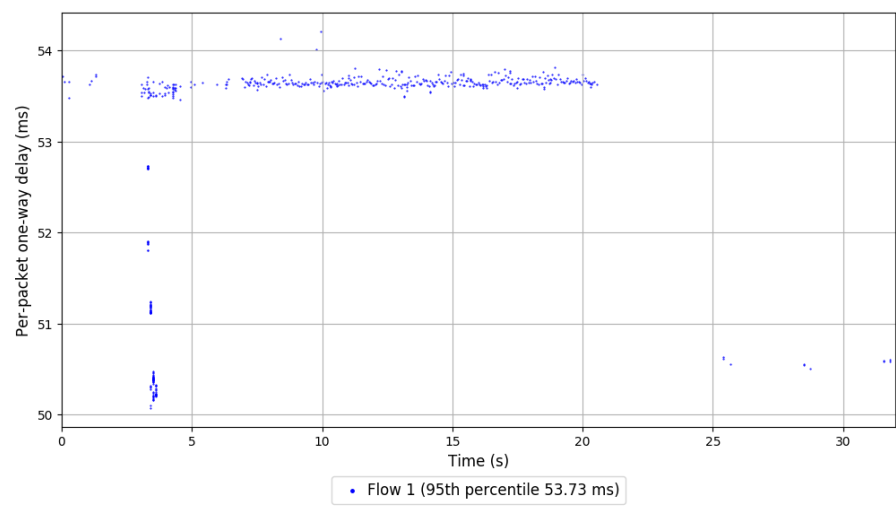
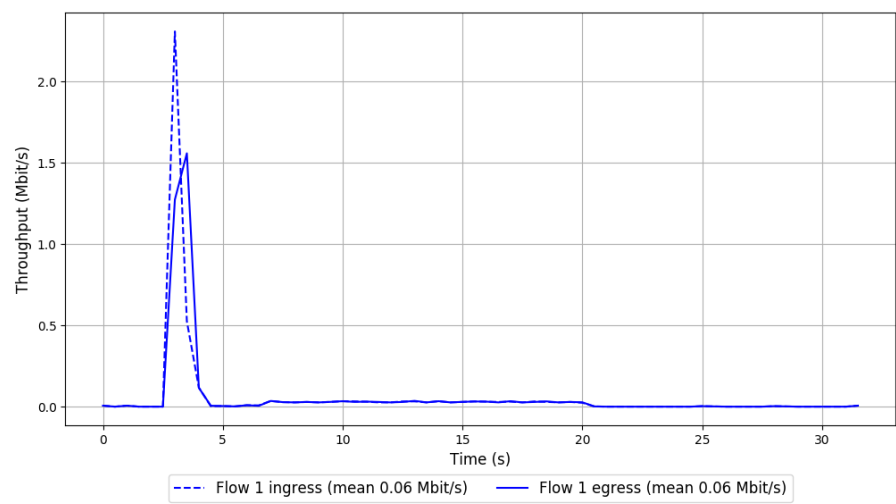


```
Run 1: Statistics of WebRTC media

Start at: 2018-03-27 03:36:54
End at: 2018-03-27 03:37:24

# Below is generated by plot.py at 2018-03-27 09:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.733 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.733 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

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

End at: 2018-03-27 03:51:36

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

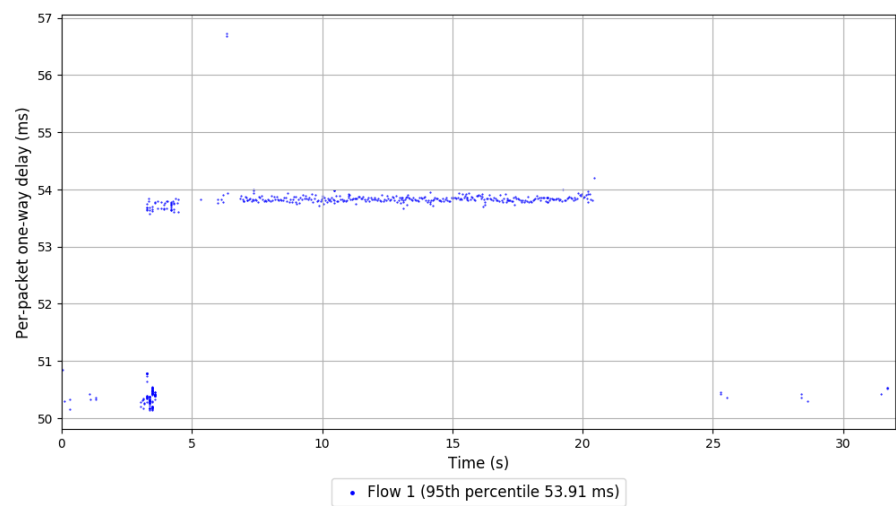
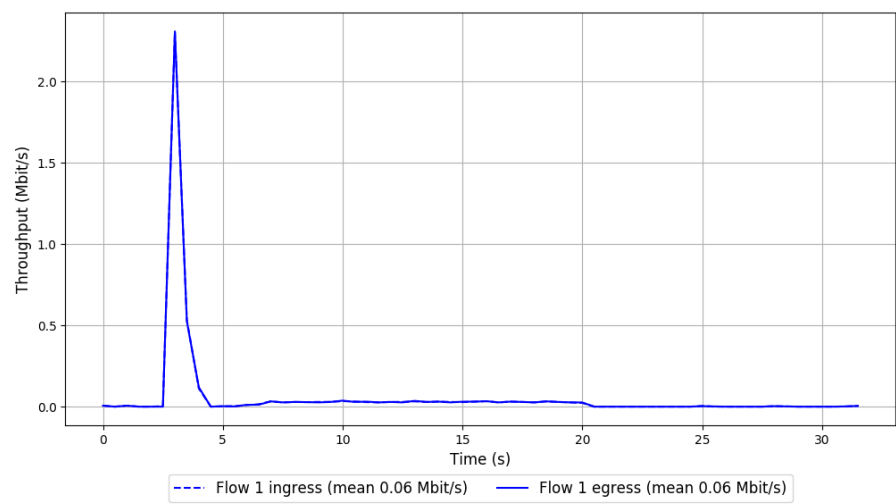
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-03-27 04:05:17

End at: 2018-03-27 04:05:47

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 0.00%

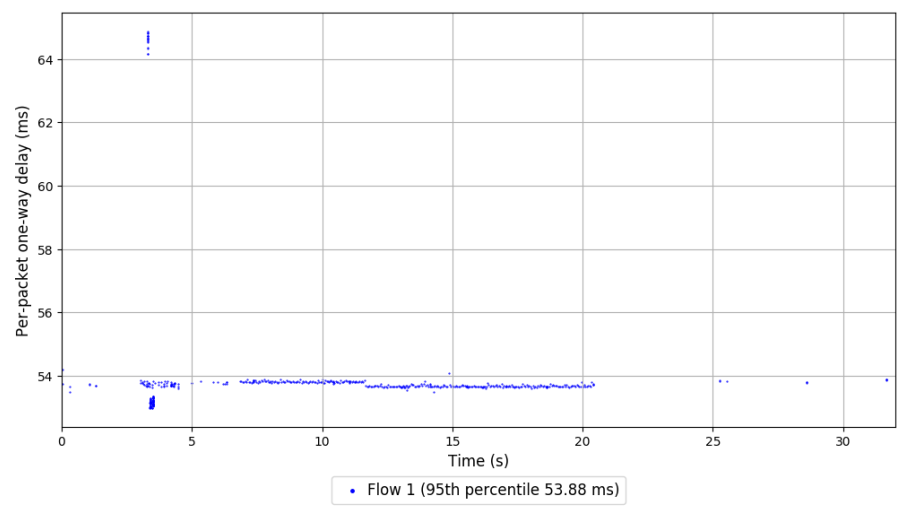
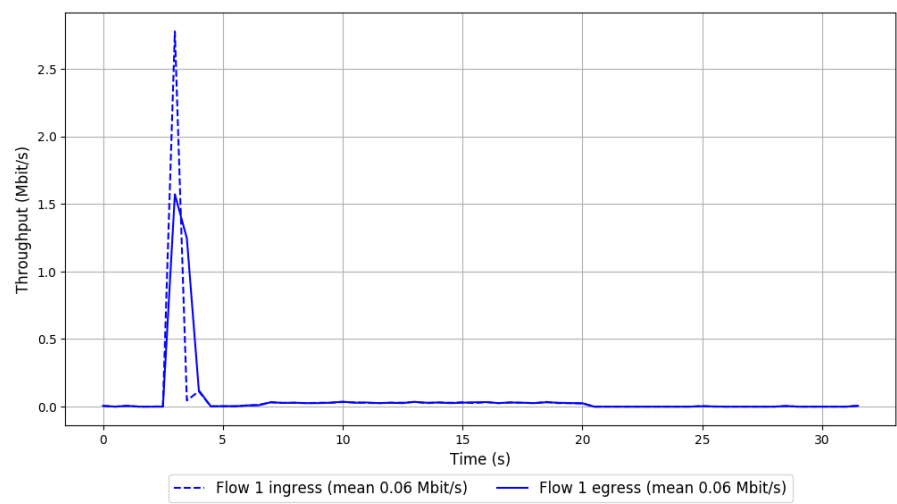
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.875 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-03-27 04:19:37

End at: 2018-03-27 04:20:07

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.00%

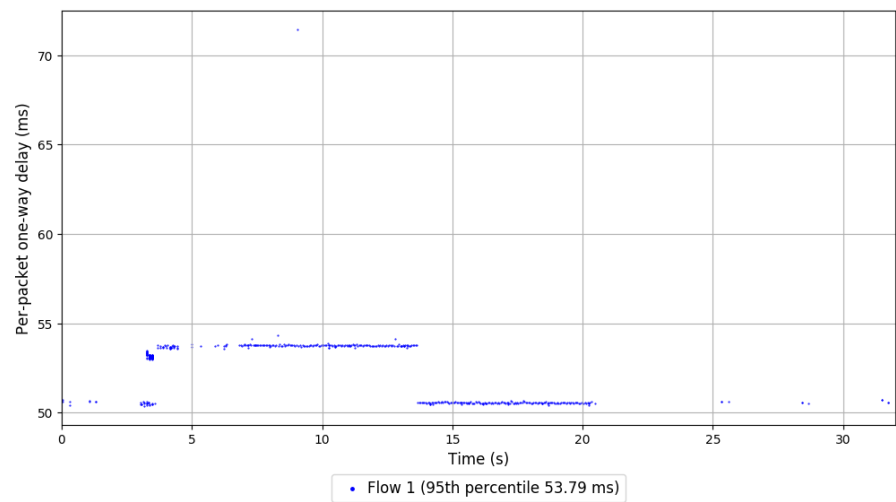
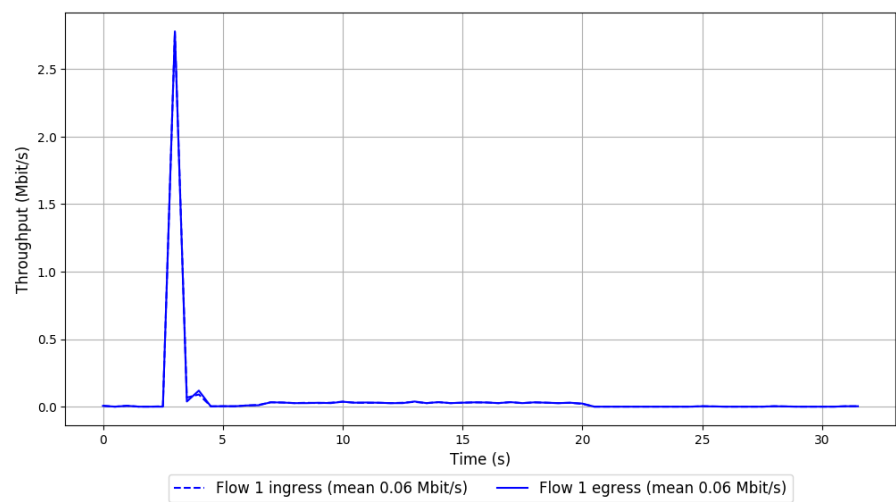
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.791 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-03-27 04:33:41

End at: 2018-03-27 04:34:11

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.00%

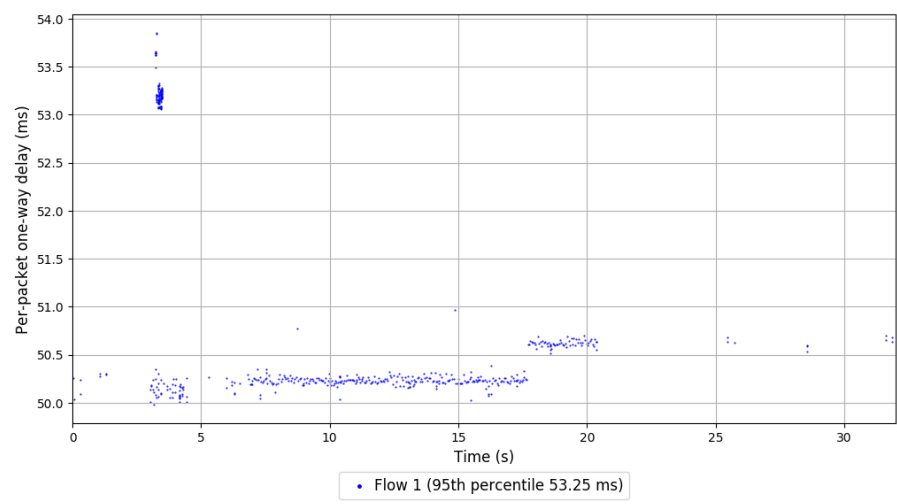
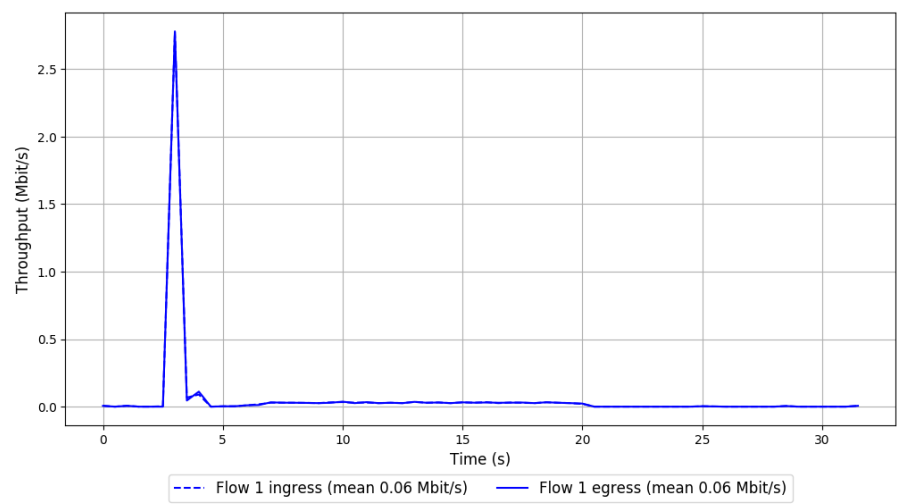
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.250 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

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

End at: 2018-03-27 04:48:37

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.767 ms

Loss rate: 0.12%

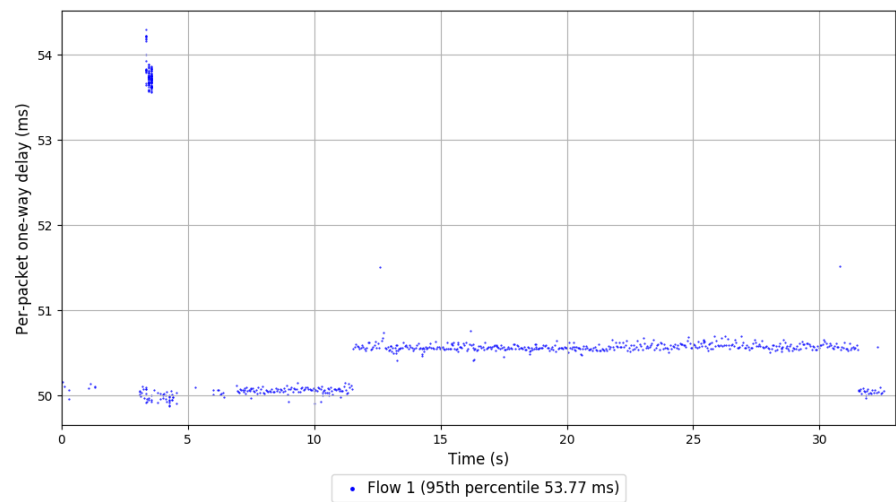
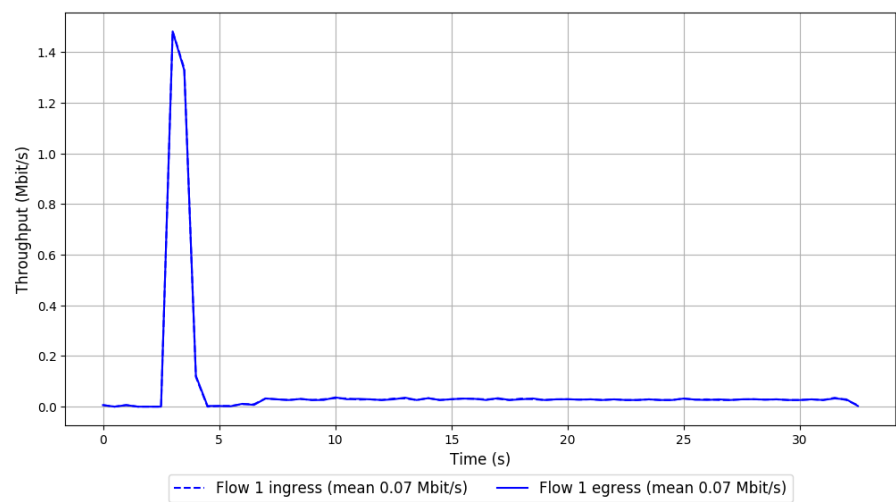
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.767 ms

Loss rate: 0.12%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-03-27 05:02:16

End at: 2018-03-27 05:02:46

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.00%

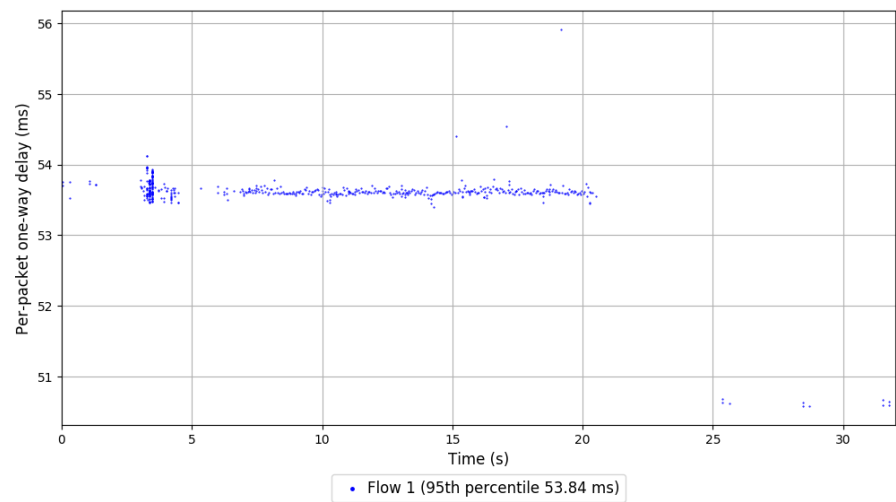
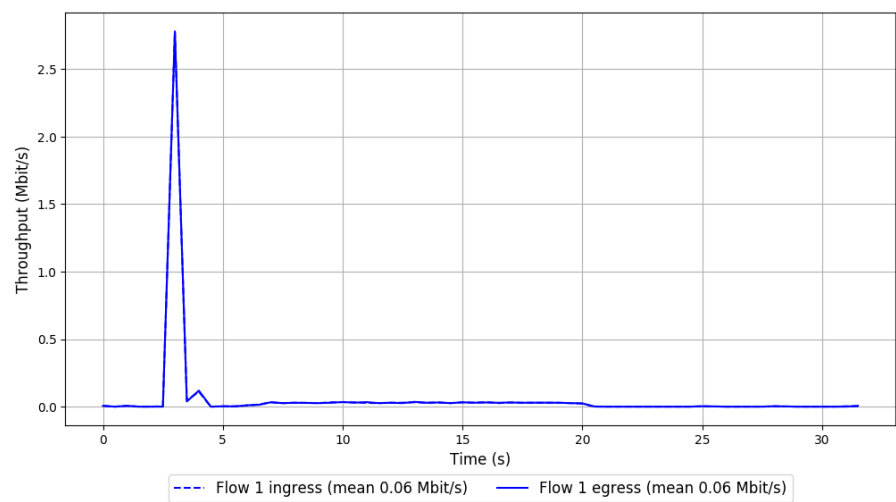
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.838 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-03-27 05:16:43

End at: 2018-03-27 05:17:13

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.00%

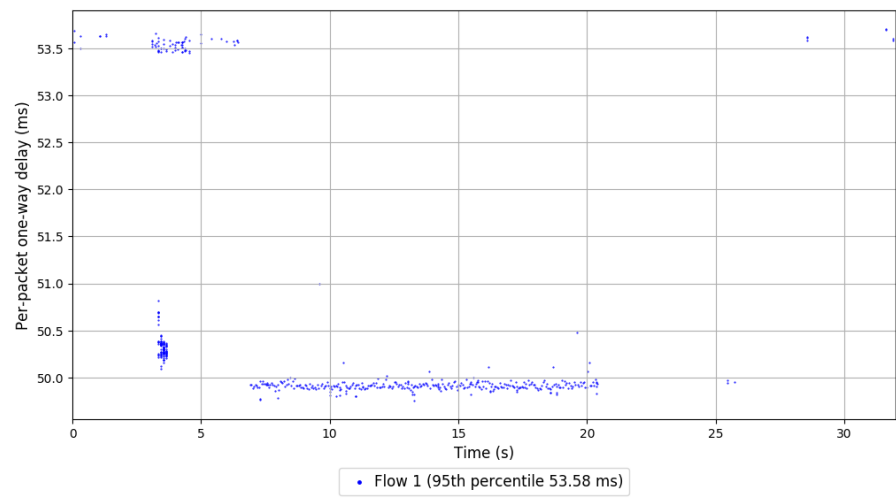
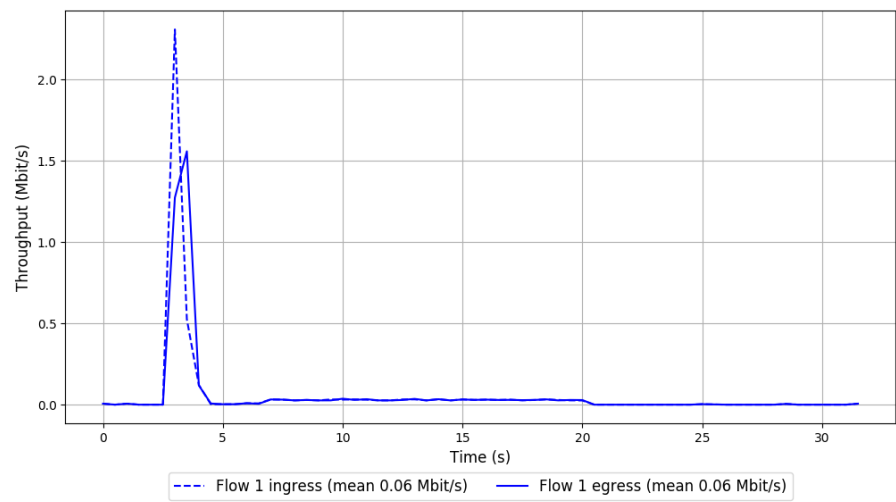
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.581 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-03-27 05:30:54

End at: 2018-03-27 05:31:24

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.00%

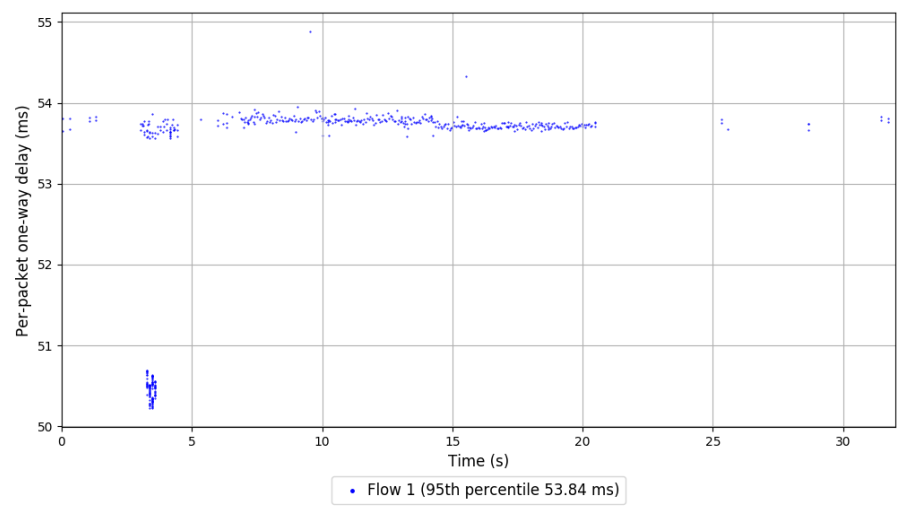
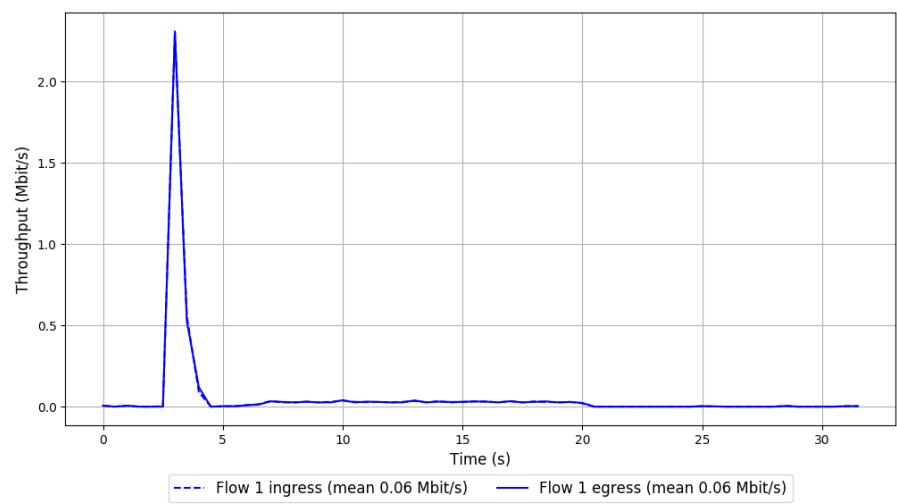
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.844 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-03-27 05:45:19

End at: 2018-03-27 05:45:49

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.12%

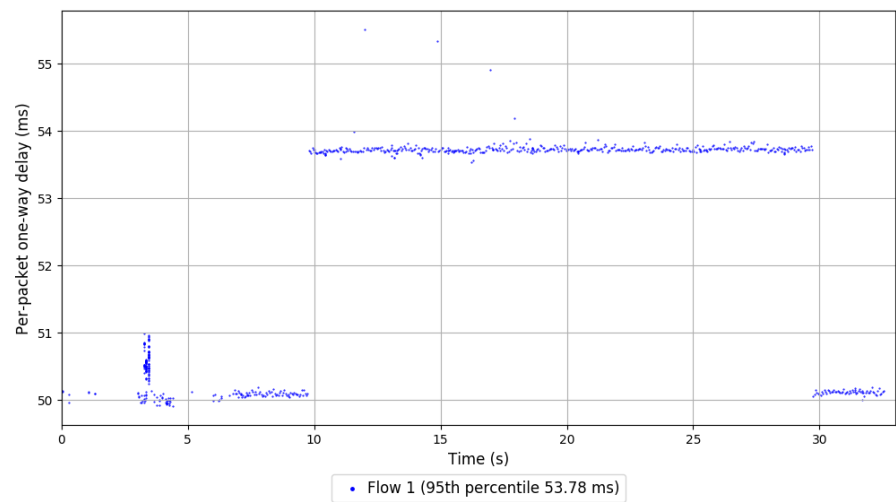
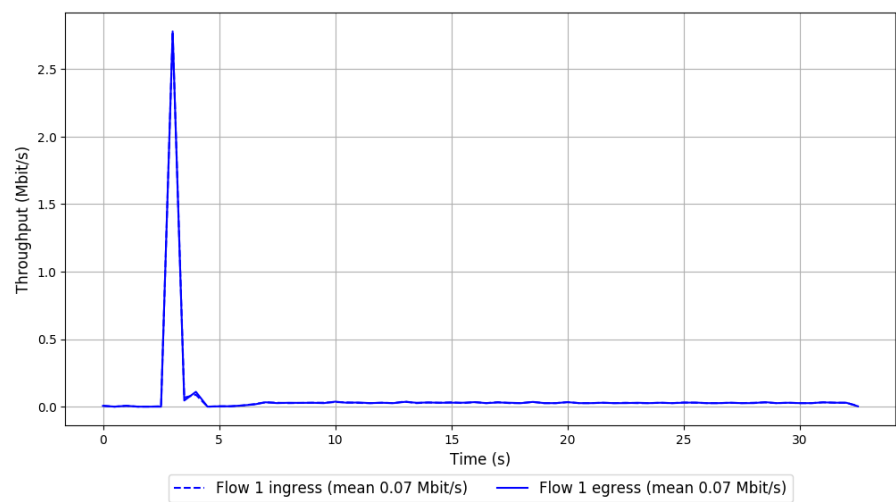
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 53.777 ms

Loss rate: 0.12%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-03-27 03:37:31

End at: 2018-03-27 03:38:01

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.36%

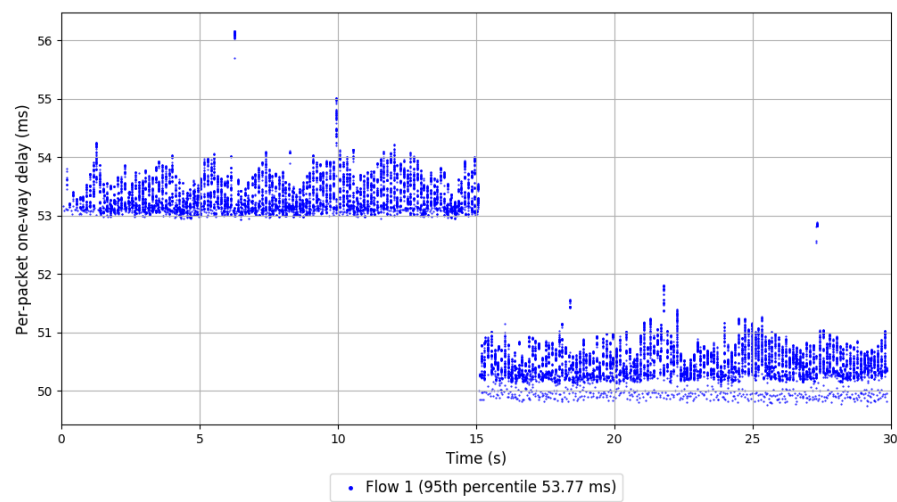
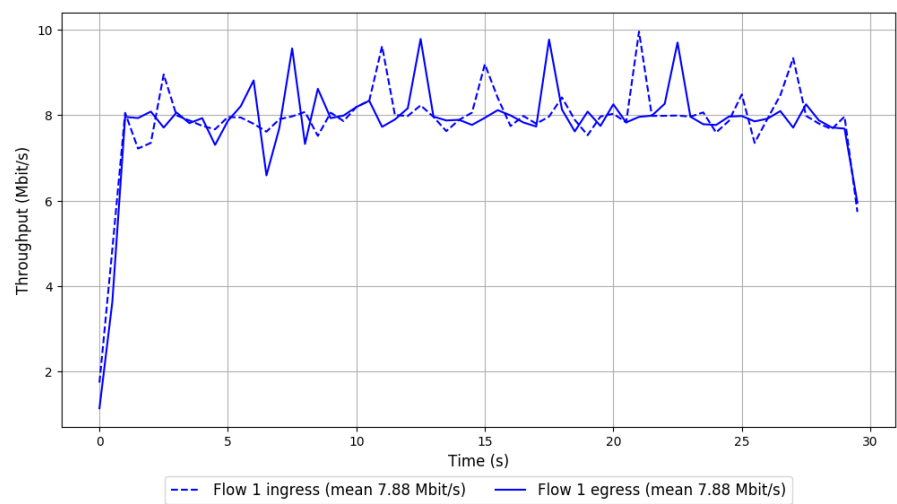
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 53.766 ms

Loss rate: 0.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-03-27 03:51:42

End at: 2018-03-27 03:52:12

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

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

Loss rate: 0.47%

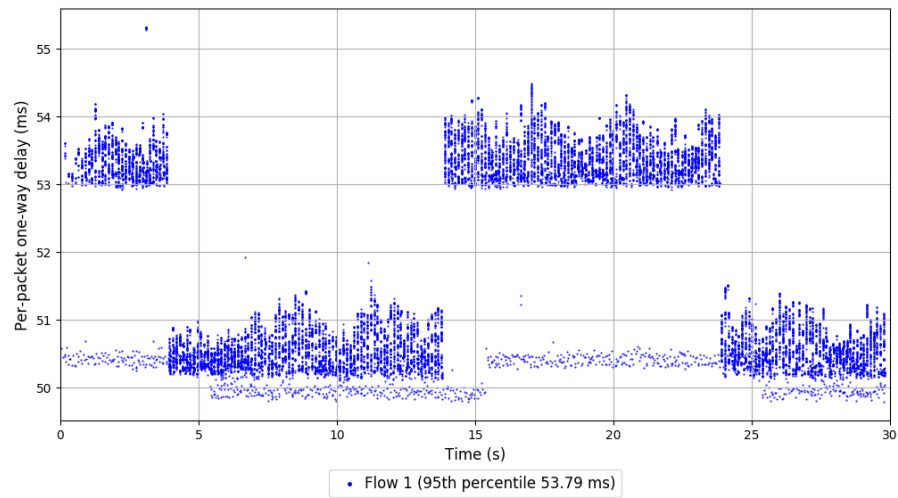
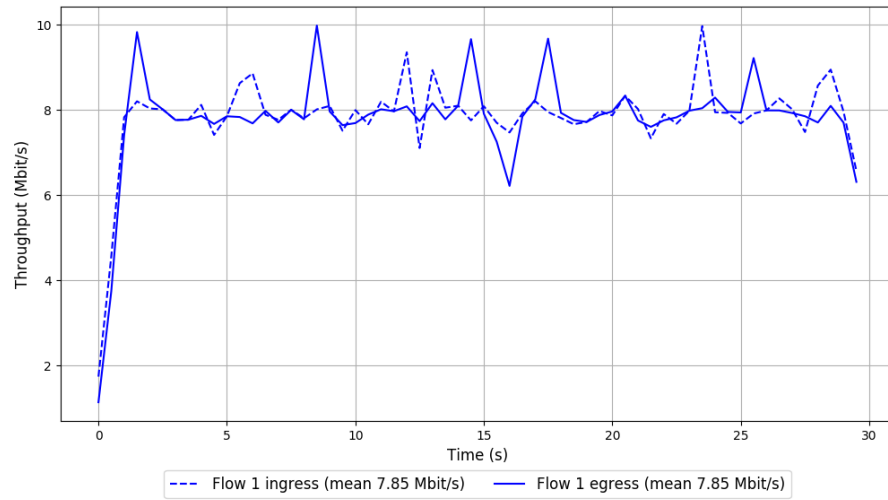
-- Flow 1:

Average throughput: 7.85 Mbit/s

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

Loss rate: 0.47%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-03-27 04:05:53

End at: 2018-03-27 04:06:24

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.37%

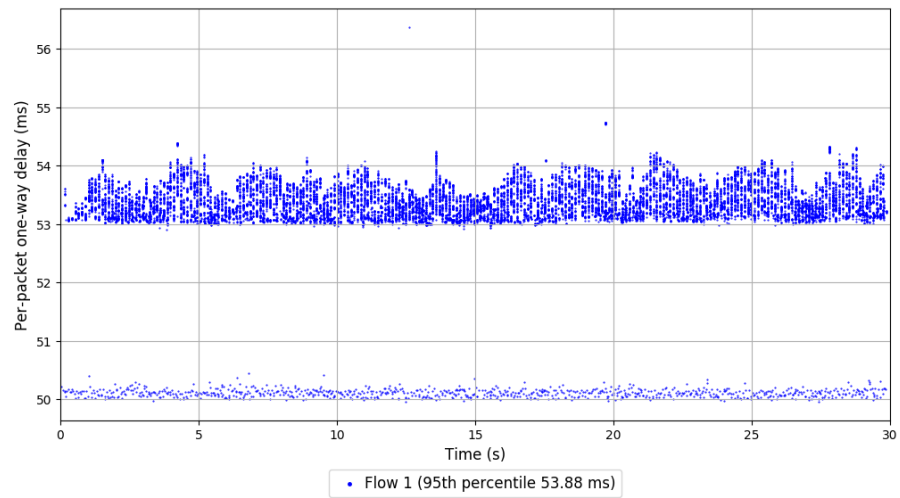
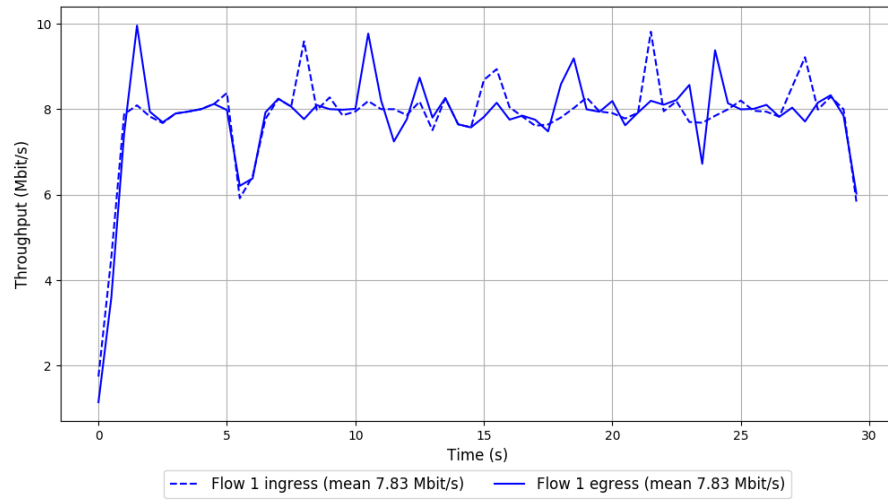
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 53.883 ms

Loss rate: 0.37%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-03-27 04:20:13

End at: 2018-03-27 04:20:43

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 53.825 ms

Loss rate: 0.42%

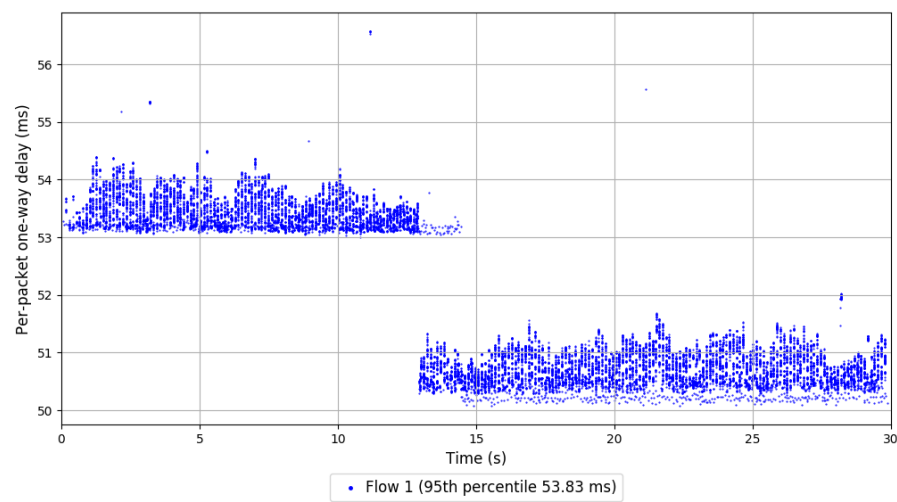
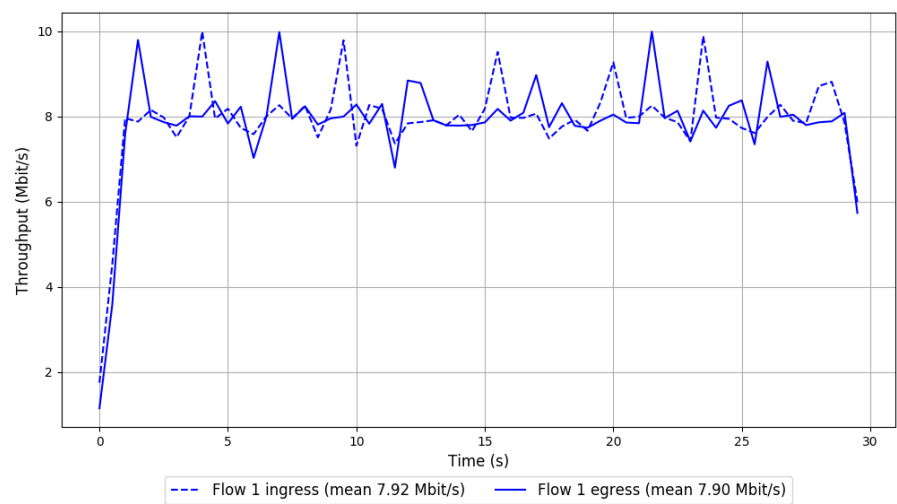
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 53.825 ms

Loss rate: 0.42%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-03-27 04:34:17

End at: 2018-03-27 04:34:47

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.45%

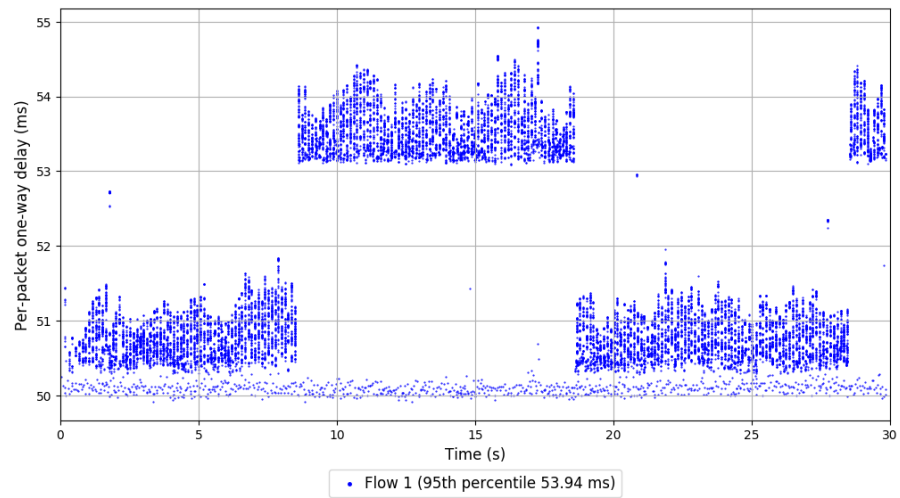
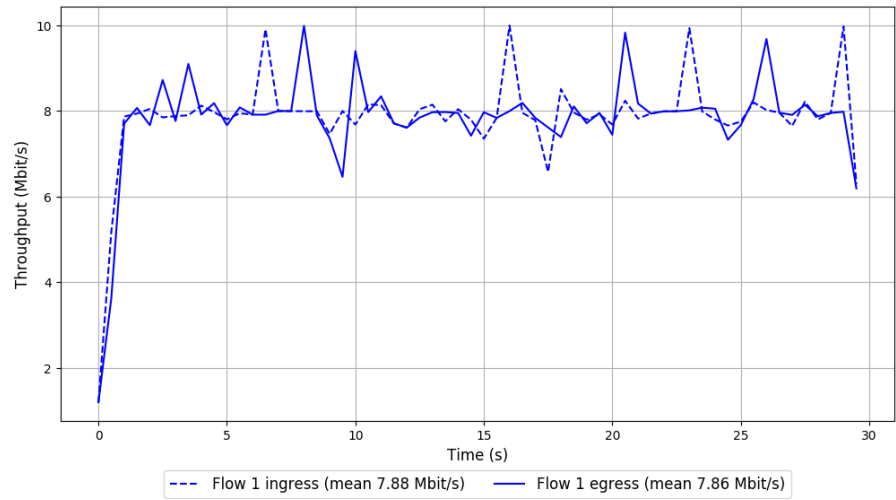
-- Flow 1:

Average throughput: 7.86 Mbit/s

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

Loss rate: 0.45%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-03-27 04:48:44

End at: 2018-03-27 04:49:14

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.50%

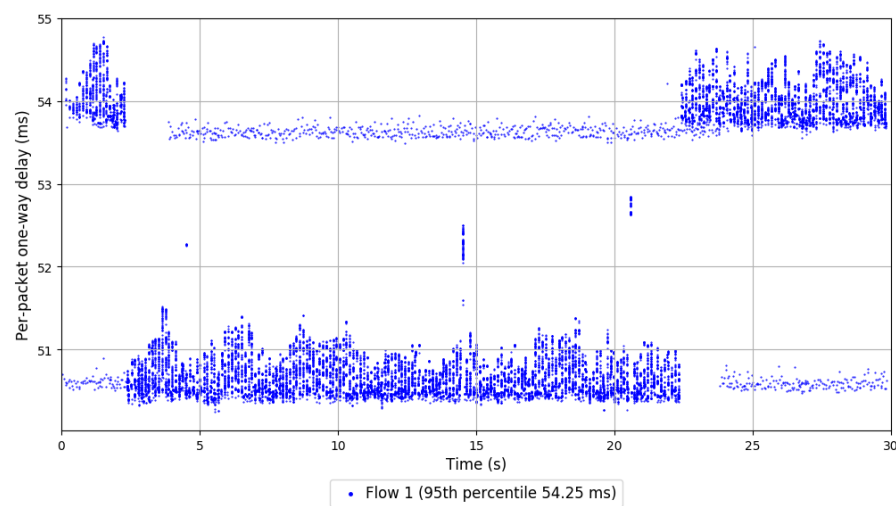
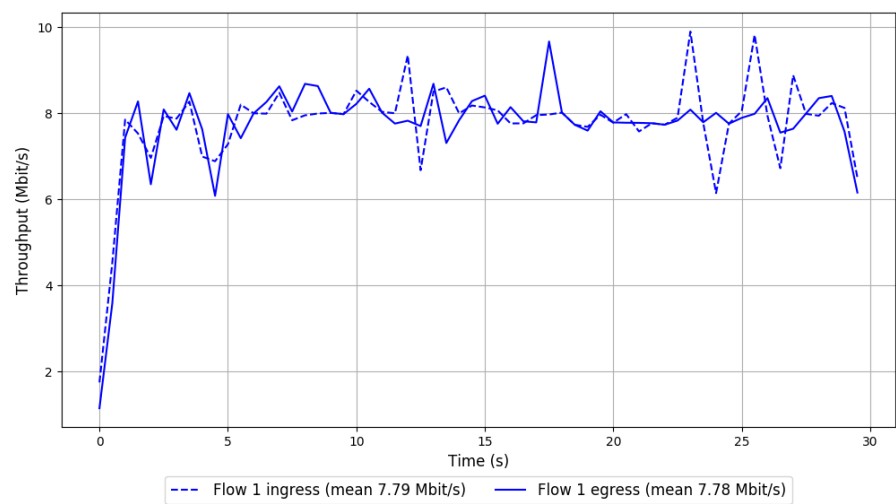
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.249 ms

Loss rate: 0.50%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-03-27 05:02:52

End at: 2018-03-27 05:03:22

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 0.19%

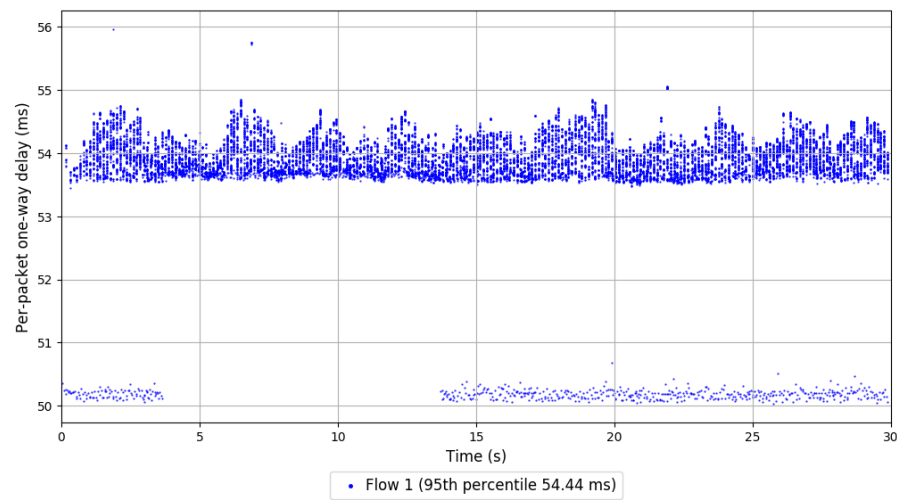
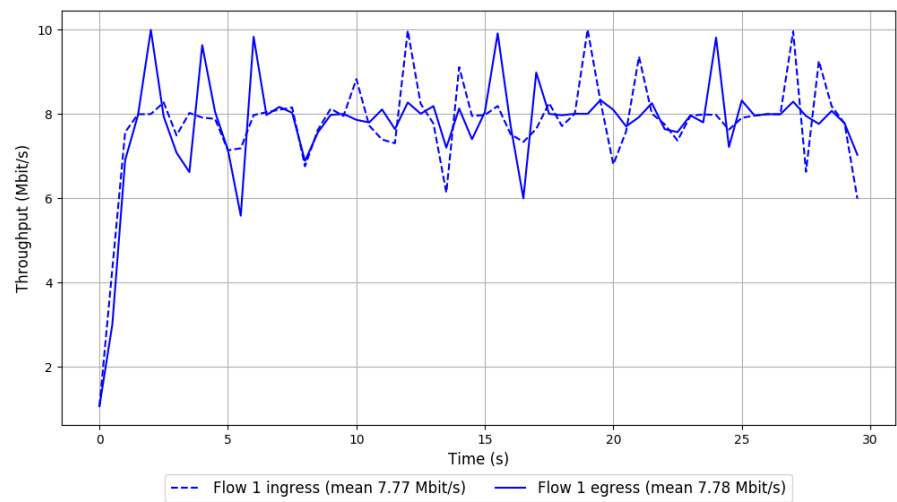
-- Flow 1:

Average throughput: 7.78 Mbit/s

95th percentile per-packet one-way delay: 54.442 ms

Loss rate: 0.19%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-03-27 05:17:20

End at: 2018-03-27 05:17:50

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.460 ms

Loss rate: 0.43%

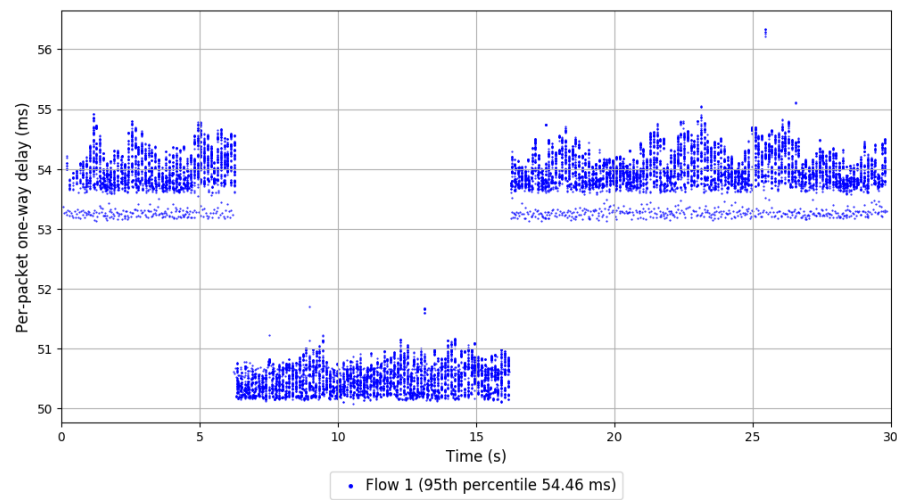
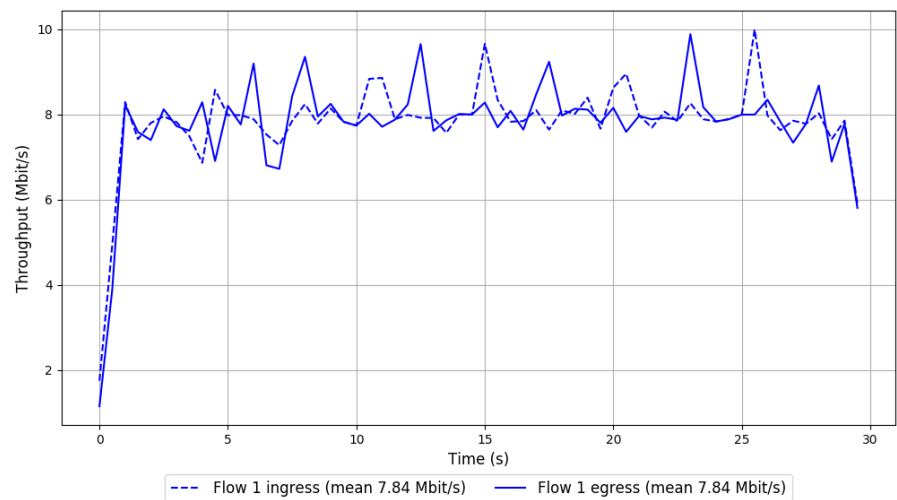
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.460 ms

Loss rate: 0.43%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-03-27 05:31:31

End at: 2018-03-27 05:32:01

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 54.558 ms

Loss rate: 0.42%

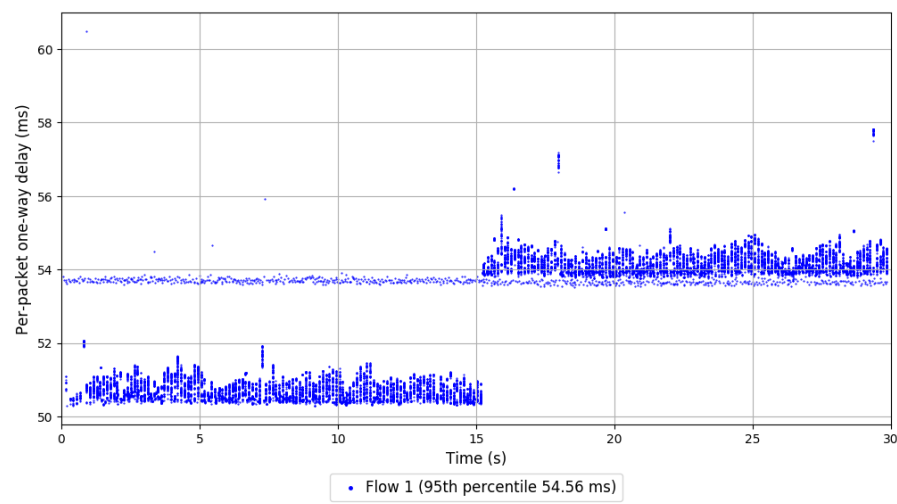
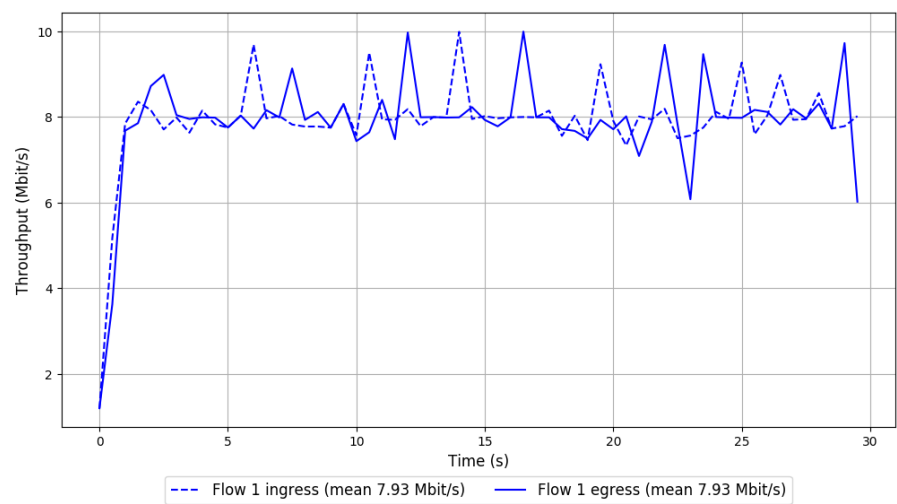
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 54.558 ms

Loss rate: 0.42%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-03-27 05:45:55

End at: 2018-03-27 05:46:26

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.317 ms

Loss rate: 0.40%

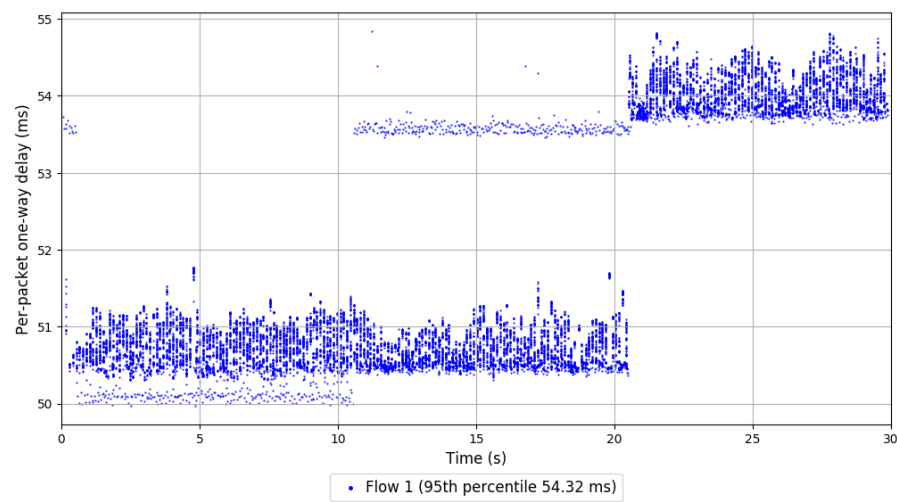
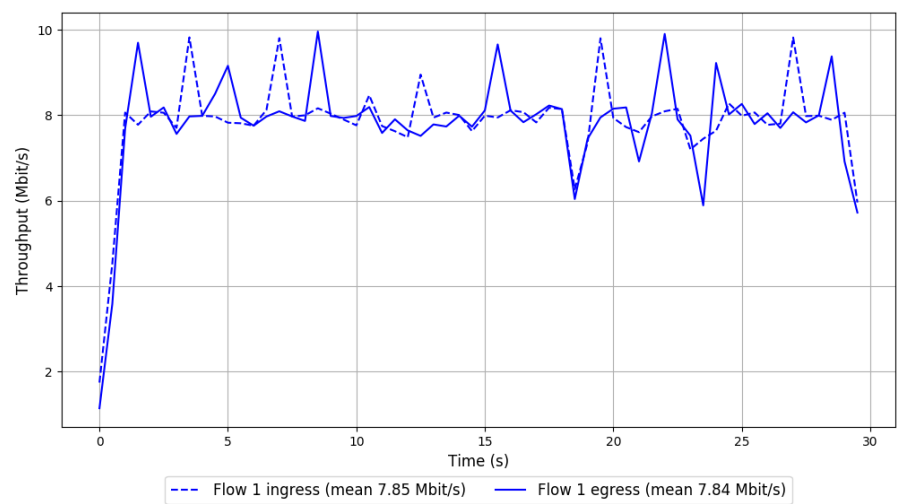
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 54.317 ms

Loss rate: 0.40%

Run 10: Report of Sprout — Data Link

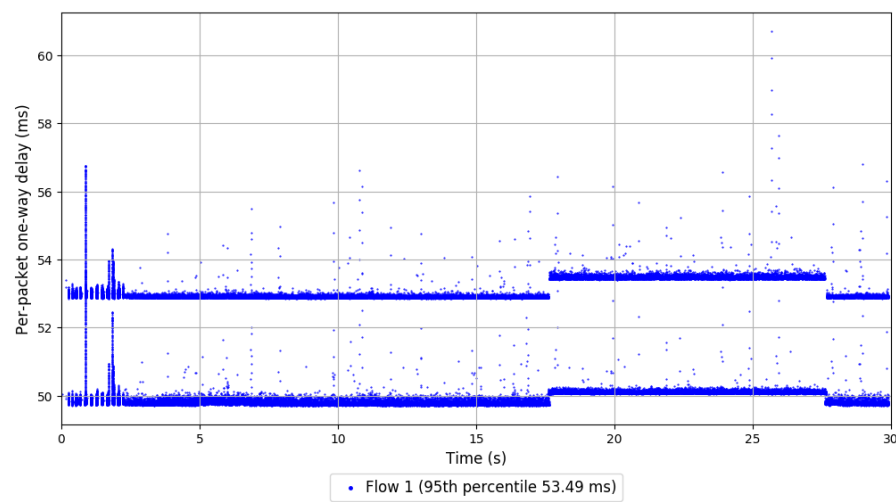
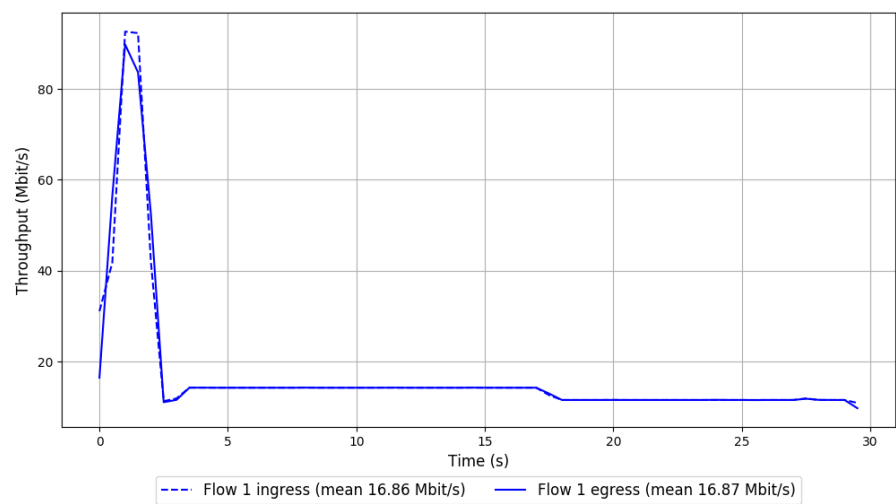


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-03-27 03:34:38
End at: 2018-03-27 03:35:08

# Below is generated by plot.py at 2018-03-27 09:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 16.87 Mbit/s
95th percentile per-packet one-way delay: 53.487 ms
Loss rate: 0.24%
```

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

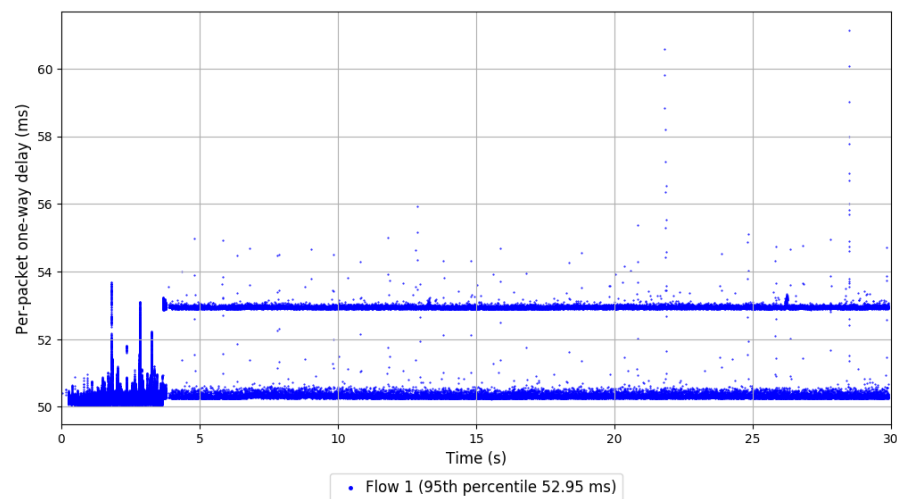
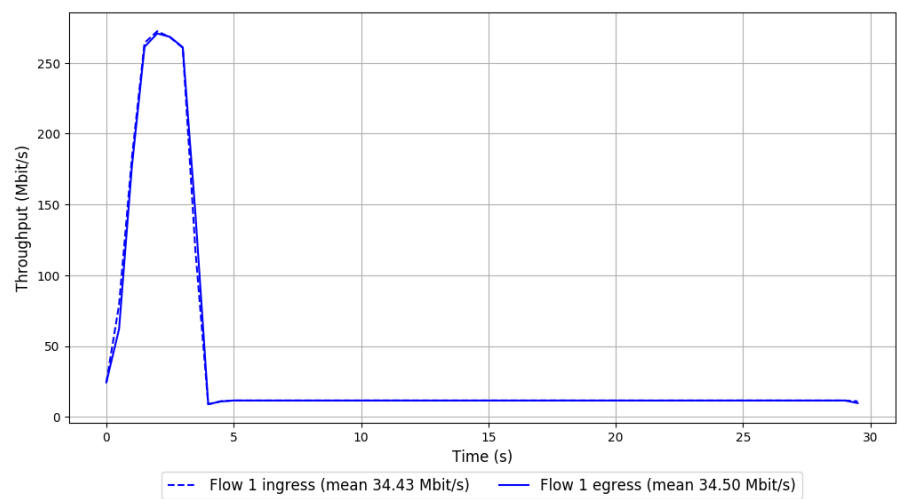


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-03-27 03:48:42
End at: 2018-03-27 03:49:12

# Below is generated by plot.py at 2018-03-27 09:01:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 52.954 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 52.954 ms
Loss rate: 0.12%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-03-27 04:02:52

End at: 2018-03-27 04:03:22

Below is generated by plot.py at 2018-03-27 09:01:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.05 Mbit/s

95th percentile per-packet one-way delay: 52.976 ms

Loss rate: 0.30%

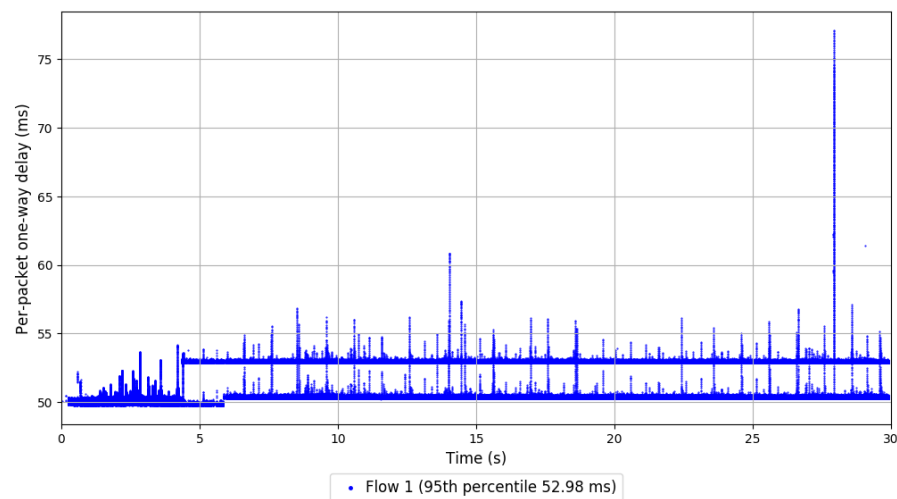
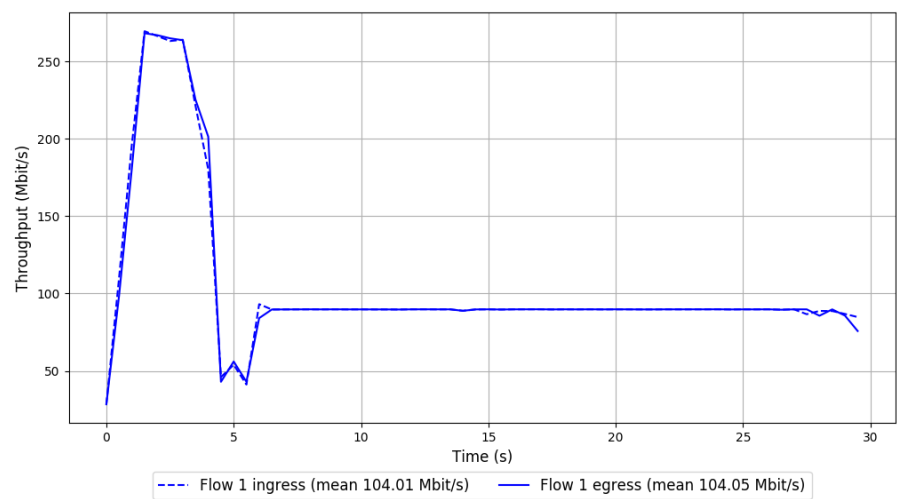
-- Flow 1:

Average throughput: 104.05 Mbit/s

95th percentile per-packet one-way delay: 52.976 ms

Loss rate: 0.30%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-03-27 04:17:03

End at: 2018-03-27 04:17:33

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.98 Mbit/s

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

Loss rate: 0.42%

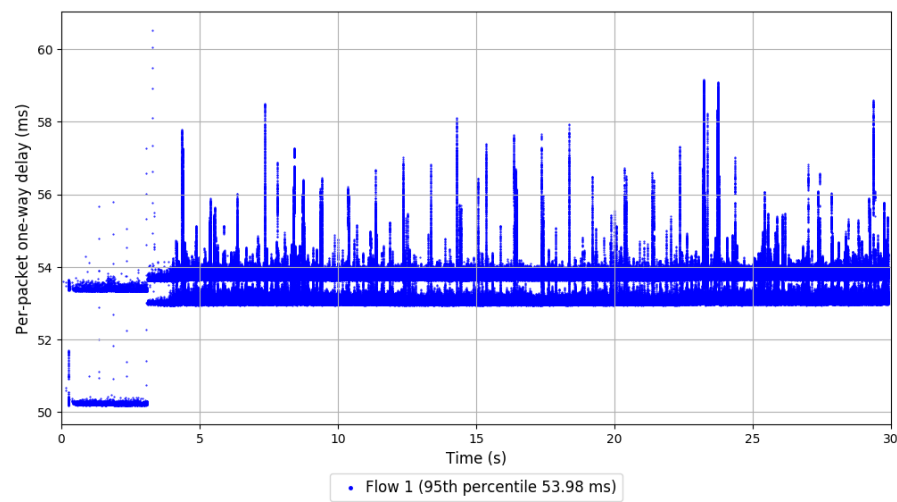
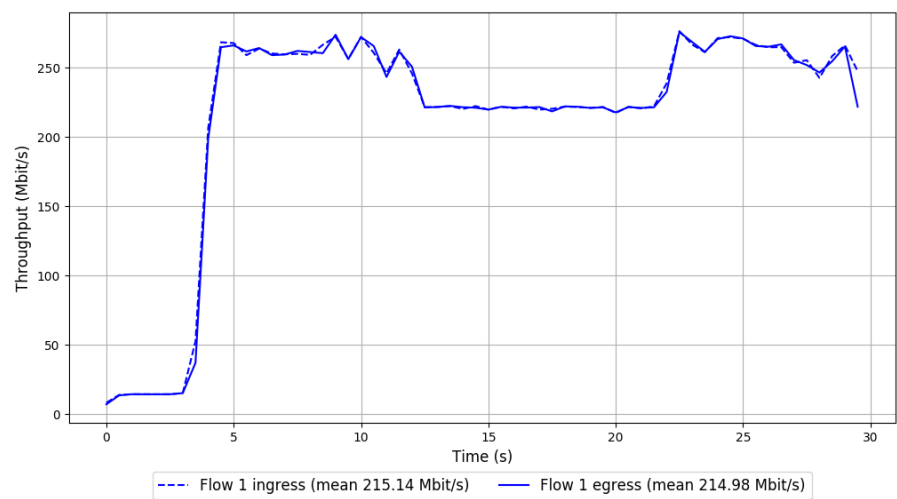
-- Flow 1:

Average throughput: 214.98 Mbit/s

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

Loss rate: 0.42%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-03-27 04:31:20

End at: 2018-03-27 04:31:50

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 53.171 ms

Loss rate: 0.58%

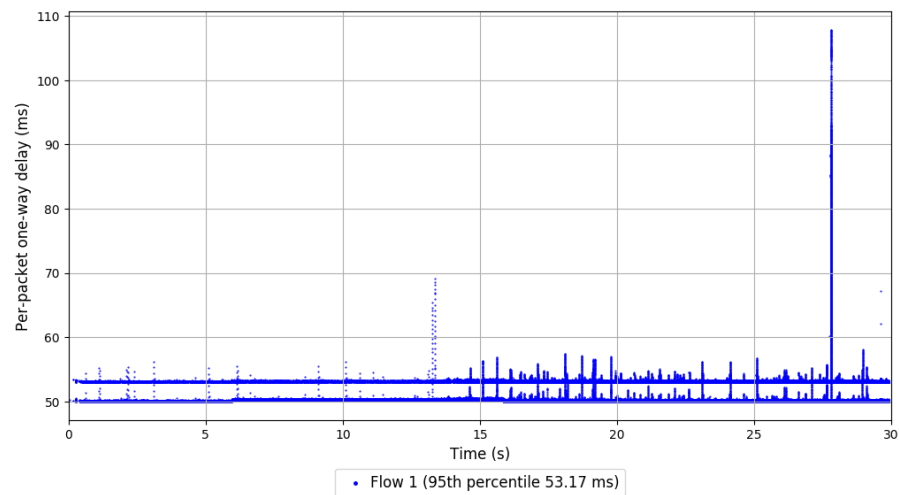
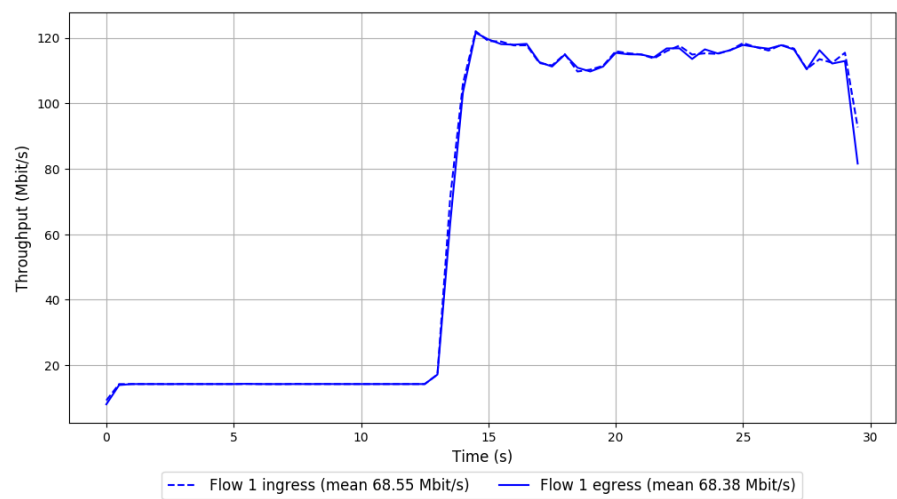
-- Flow 1:

Average throughput: 68.38 Mbit/s

95th percentile per-packet one-way delay: 53.171 ms

Loss rate: 0.58%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-03-27 04:45:40

End at: 2018-03-27 04:46:10

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.36 Mbit/s

95th percentile per-packet one-way delay: 51.241 ms

Loss rate: 0.84%

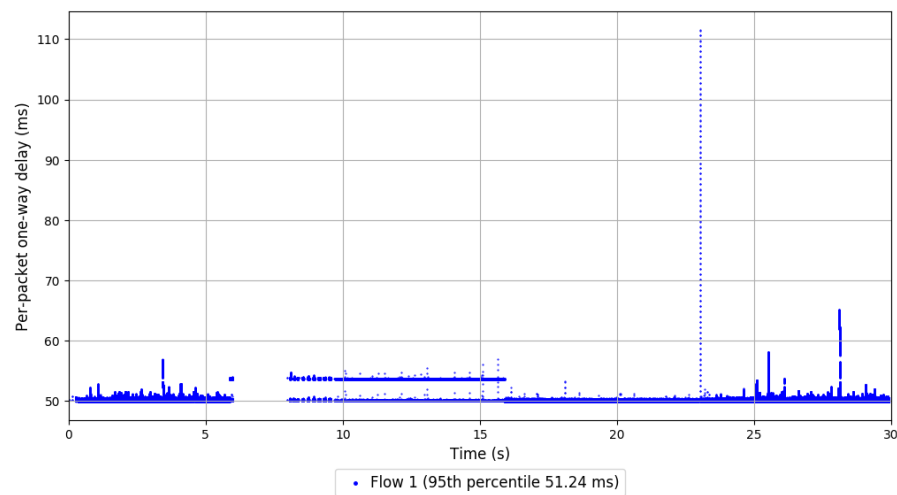
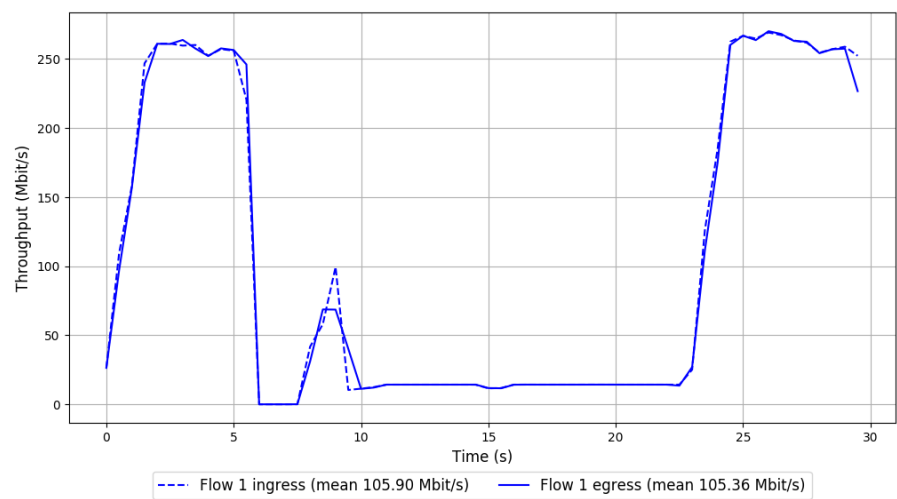
-- Flow 1:

Average throughput: 105.36 Mbit/s

95th percentile per-packet one-way delay: 51.241 ms

Loss rate: 0.84%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-03-27 04:59:54

End at: 2018-03-27 05:00:24

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.20 Mbit/s

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

Loss rate: 0.28%

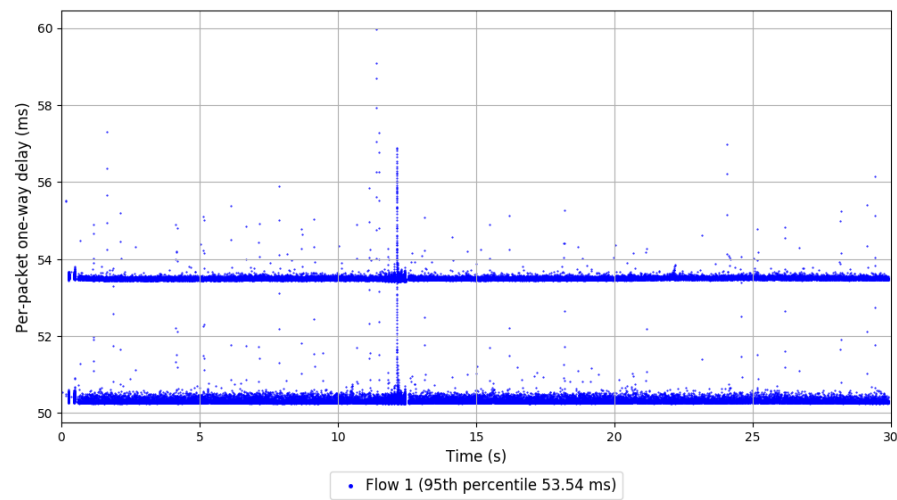
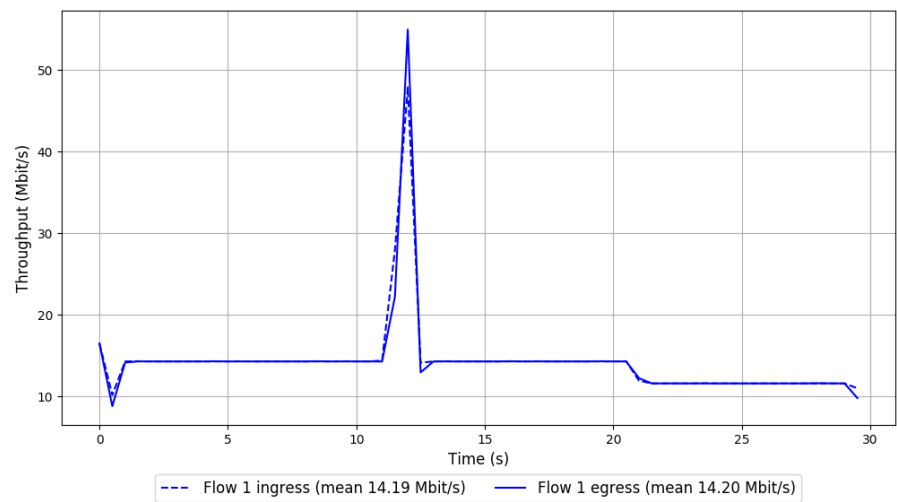
-- Flow 1:

Average throughput: 14.20 Mbit/s

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

Loss rate: 0.28%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-03-27 05:14:06

End at: 2018-03-27 05:14:36

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.06 Mbit/s

95th percentile per-packet one-way delay: 53.827 ms

Loss rate: 0.35%

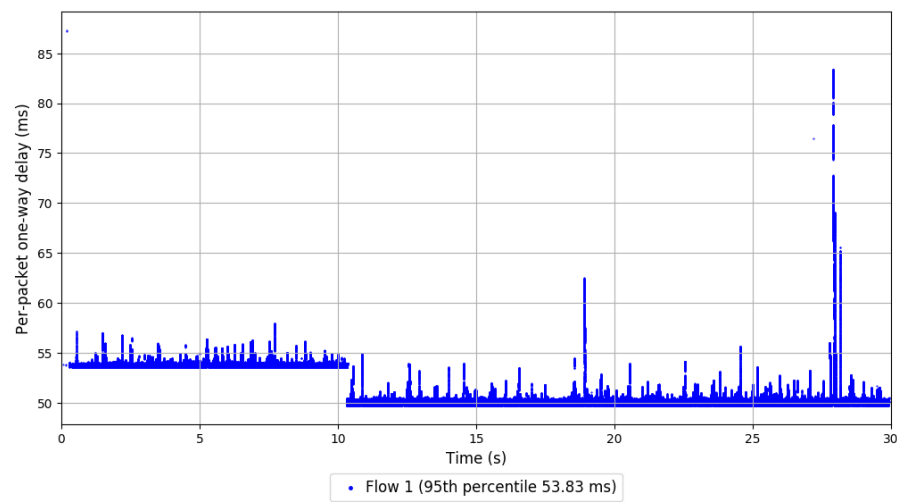
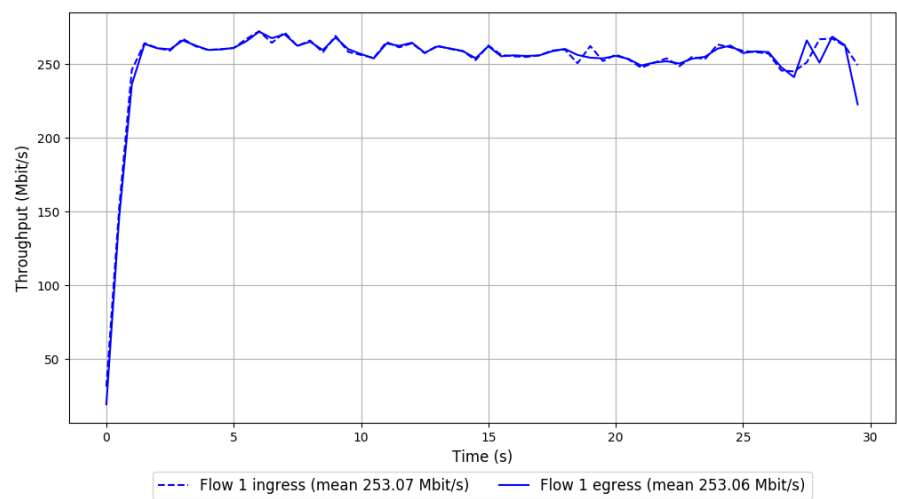
-- Flow 1:

Average throughput: 253.06 Mbit/s

95th percentile per-packet one-way delay: 53.827 ms

Loss rate: 0.35%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-03-27 05:28:30

End at: 2018-03-27 05:29:00

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.14 Mbit/s

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

Loss rate: 1.16%

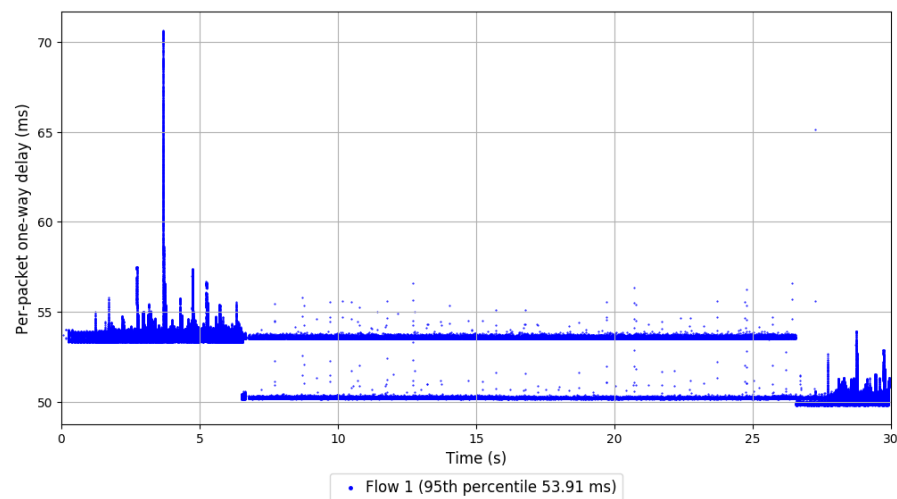
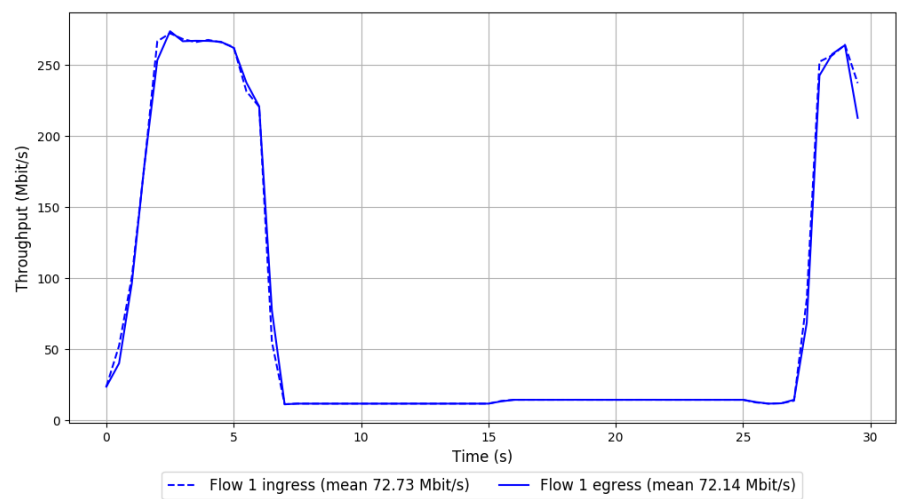
-- Flow 1:

Average throughput: 72.14 Mbit/s

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

Loss rate: 1.16%

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

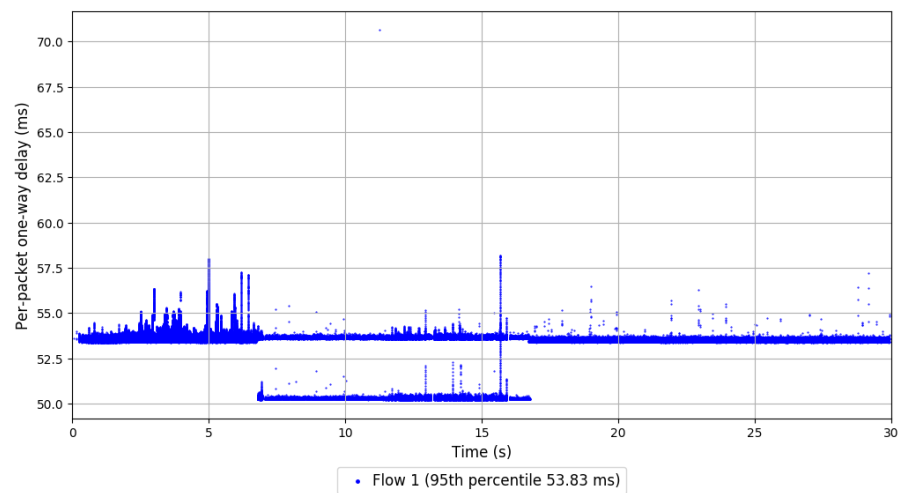
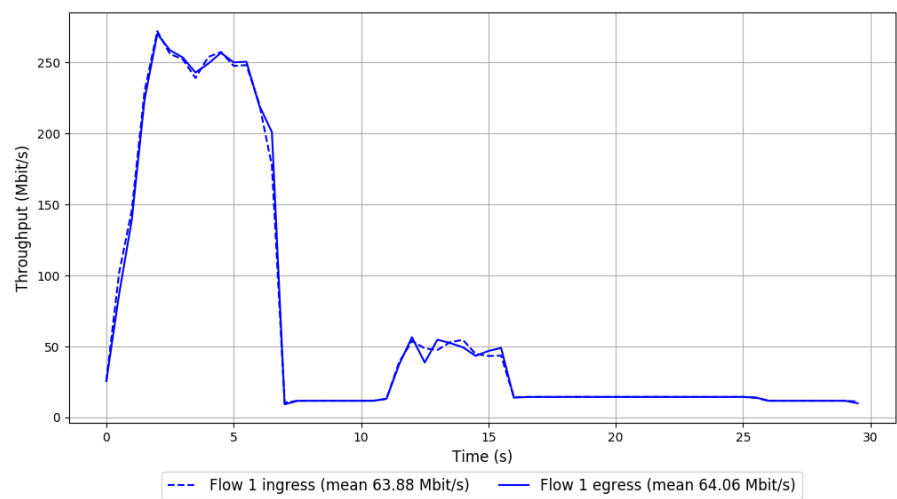


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-03-27 05:42:49
End at: 2018-03-27 05:43:19

# Below is generated by plot.py at 2018-03-27 09:05:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.06 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 64.06 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.06%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-03-27 03:35:17

End at: 2018-03-27 03:35:47

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 61.278 ms

Loss rate: 0.11%

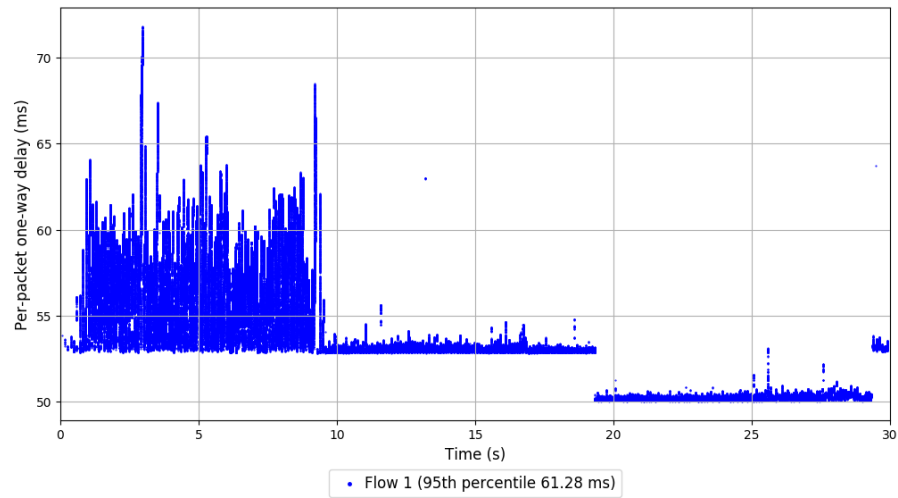
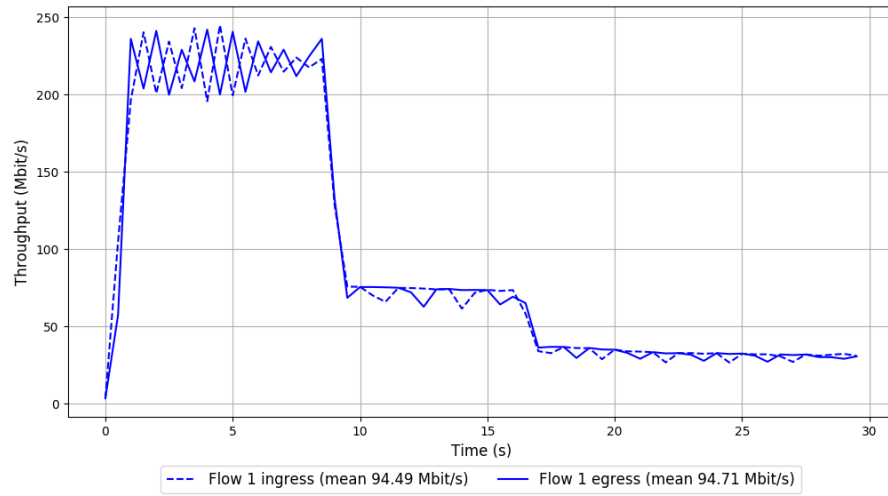
-- Flow 1:

Average throughput: 94.71 Mbit/s

95th percentile per-packet one-way delay: 61.278 ms

Loss rate: 0.11%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-03-27 03:49:22

End at: 2018-03-27 03:49:52

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.38 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.35%

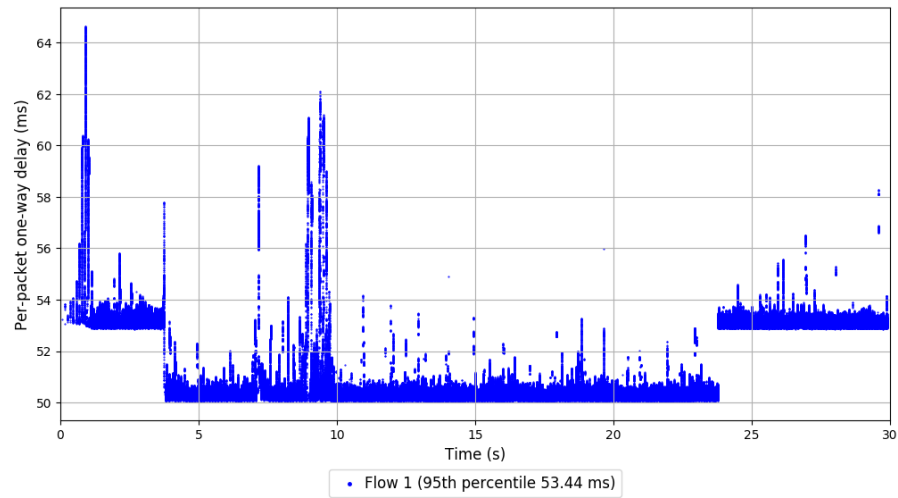
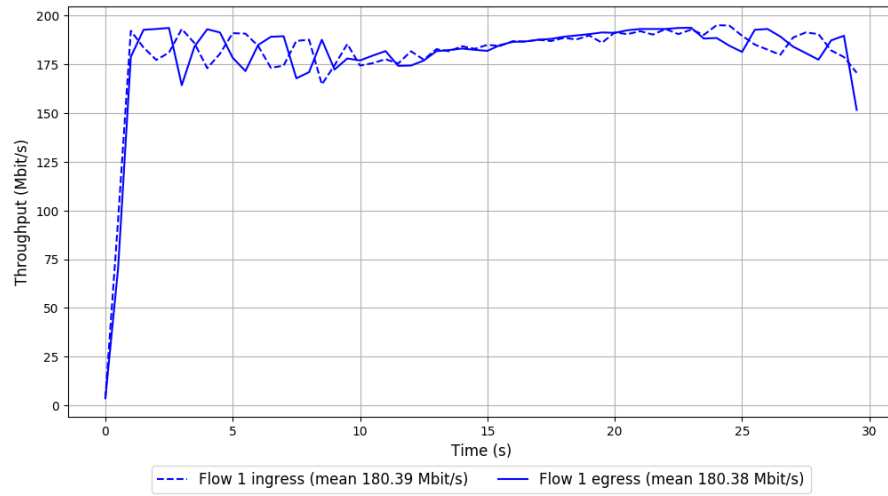
-- Flow 1:

Average throughput: 180.38 Mbit/s

95th percentile per-packet one-way delay: 53.443 ms

Loss rate: 0.35%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-03-27 04:03:37

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

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 60.048 ms

Loss rate: 0.36%

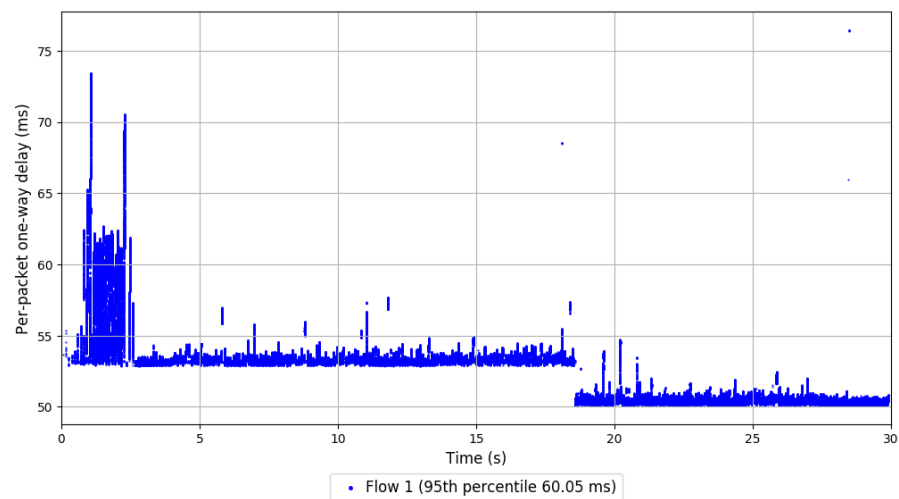
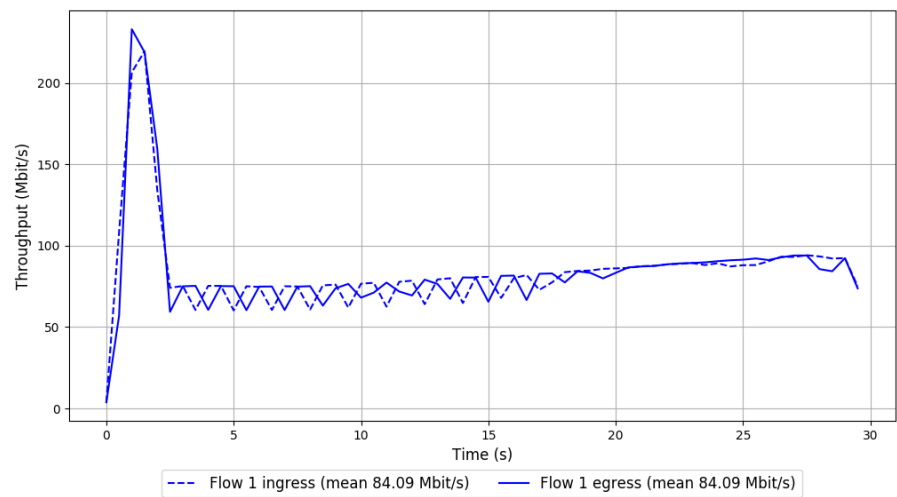
-- Flow 1:

Average throughput: 84.09 Mbit/s

95th percentile per-packet one-way delay: 60.048 ms

Loss rate: 0.36%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-03-27 04:17:58

End at: 2018-03-27 04:18:28

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.56 Mbit/s

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

Loss rate: 0.31%

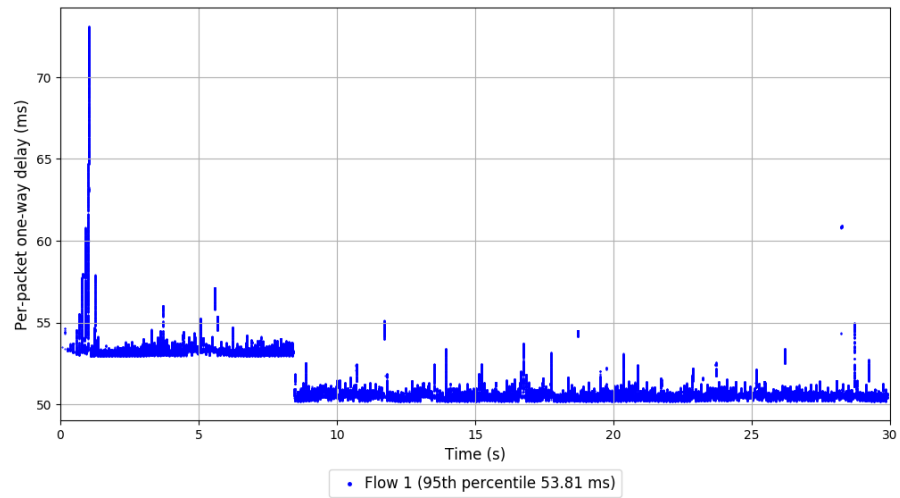
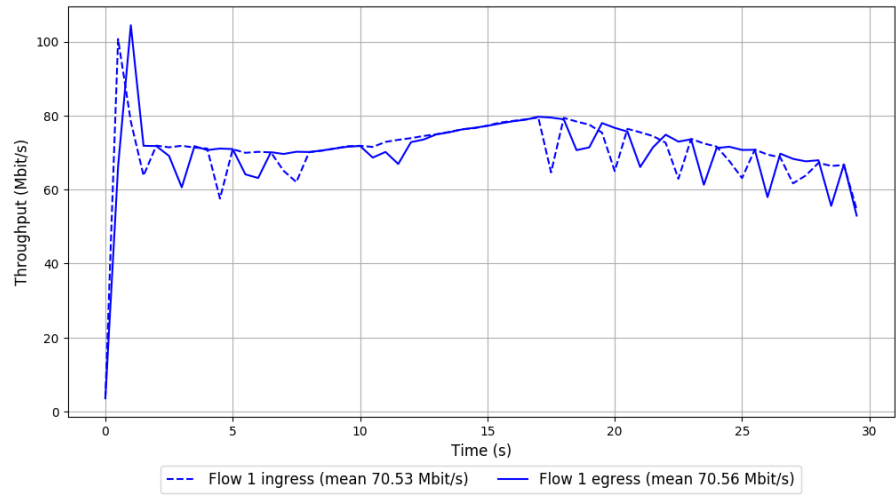
-- Flow 1:

Average throughput: 70.56 Mbit/s

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

Loss rate: 0.31%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-03-27 04:32:03

End at: 2018-03-27 04:32:33

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.01 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.31%

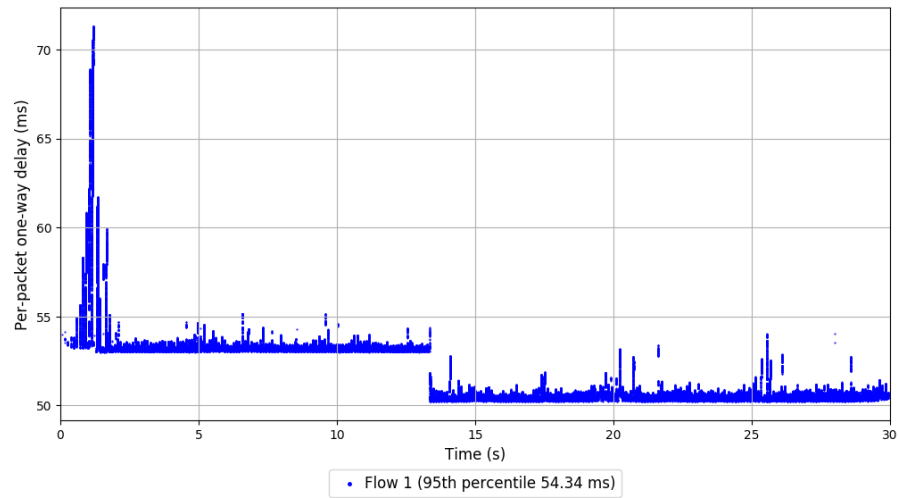
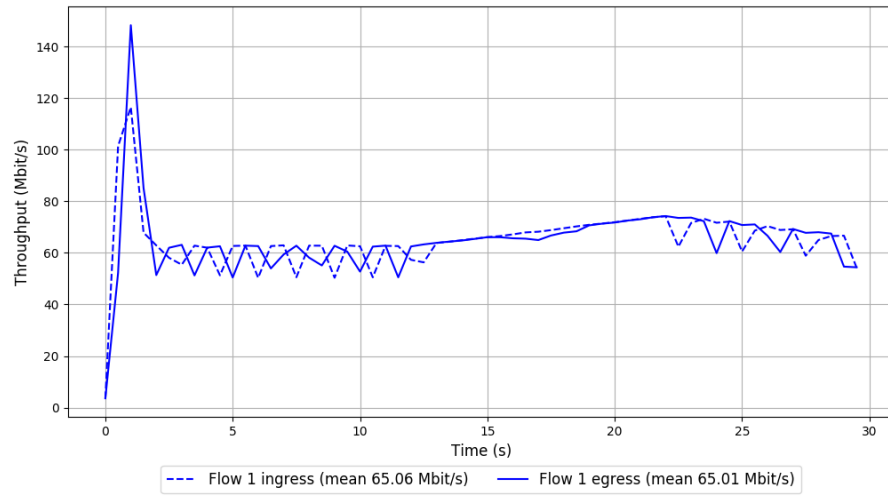
-- Flow 1:

Average throughput: 65.01 Mbit/s

95th percentile per-packet one-way delay: 54.341 ms

Loss rate: 0.31%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-03-27 04:46:26

End at: 2018-03-27 04:46:56

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 109.73 Mbit/s

95th percentile per-packet one-way delay: 61.666 ms

Loss rate: 0.18%

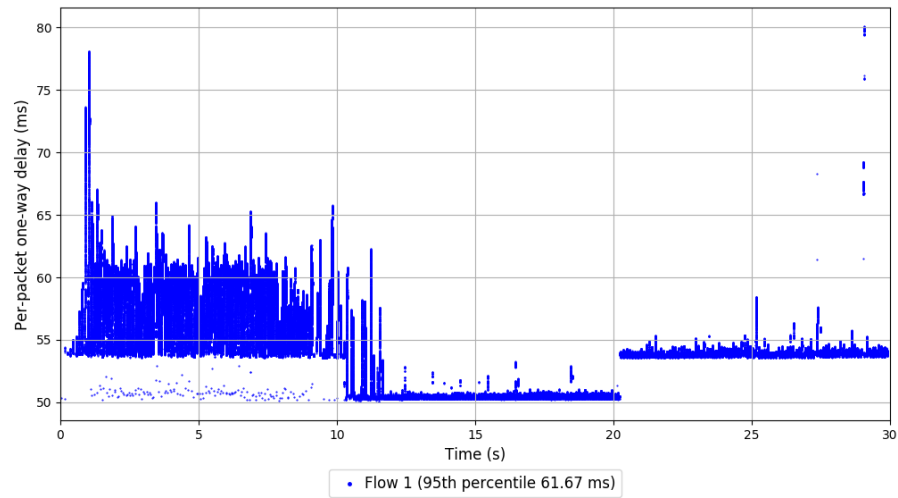
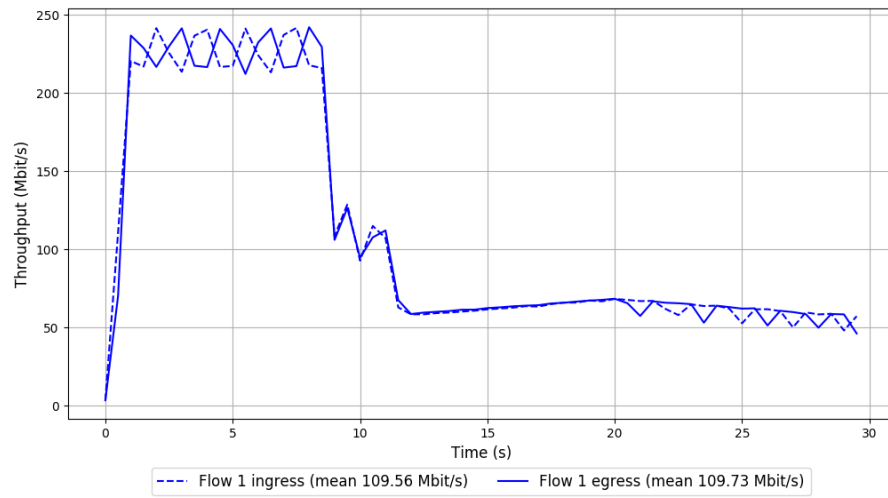
-- Flow 1:

Average throughput: 109.73 Mbit/s

95th percentile per-packet one-way delay: 61.666 ms

Loss rate: 0.18%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-03-27 05:00:32

End at: 2018-03-27 05:01:02

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.98 Mbit/s

95th percentile per-packet one-way delay: 54.754 ms

Loss rate: 0.35%

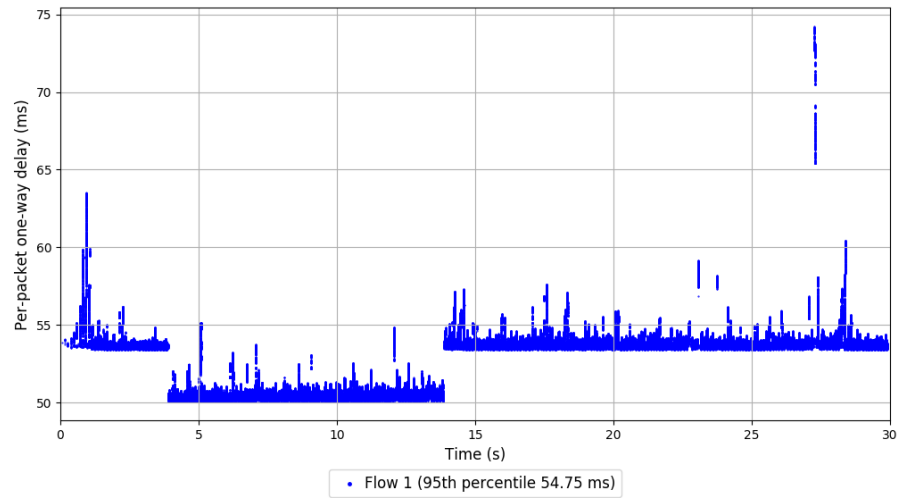
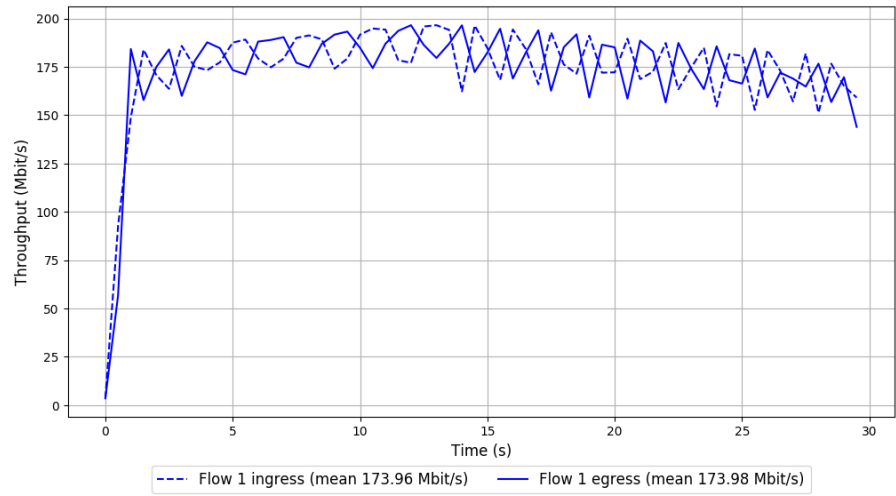
-- Flow 1:

Average throughput: 173.98 Mbit/s

95th percentile per-packet one-way delay: 54.754 ms

Loss rate: 0.35%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-03-27 05:15:04

End at: 2018-03-27 05:15:34

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 0.42%

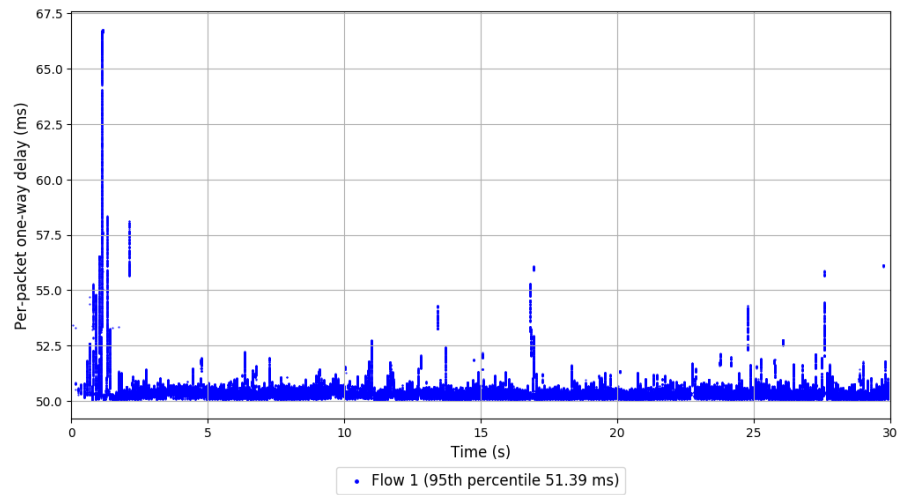
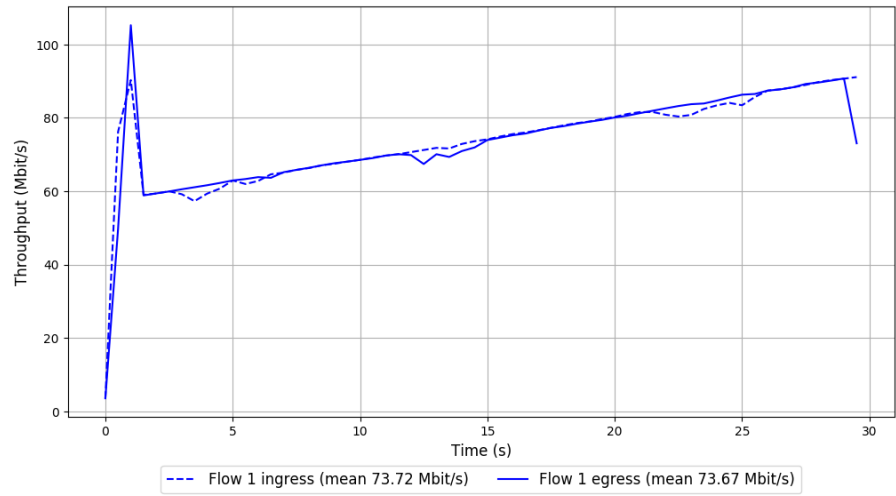
-- Flow 1:

Average throughput: 73.67 Mbit/s

95th percentile per-packet one-way delay: 51.394 ms

Loss rate: 0.42%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-03-27 05:29:12

End at: 2018-03-27 05:29:42

Below is generated by plot.py at 2018-03-27 09:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.24 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.31%

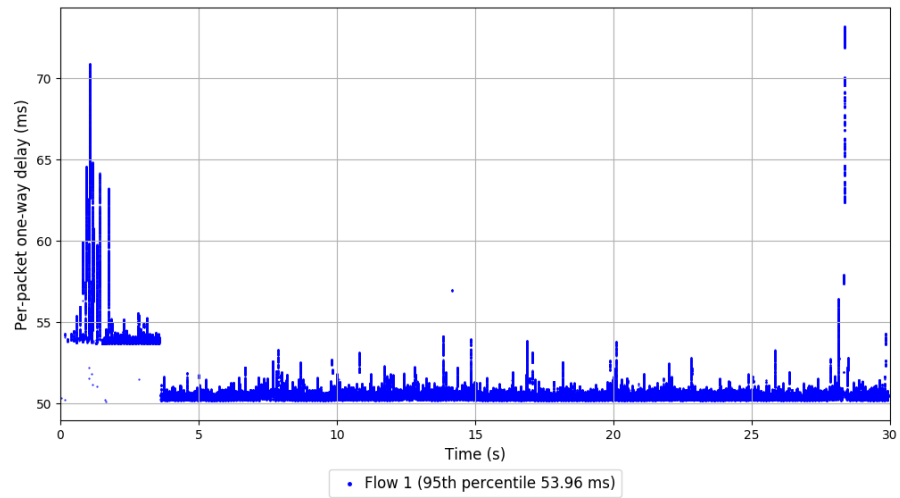
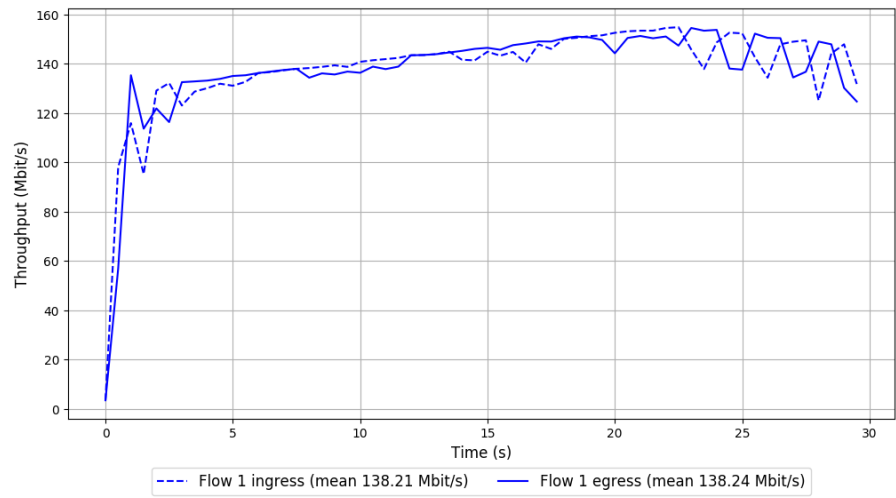
-- Flow 1:

Average throughput: 138.24 Mbit/s

95th percentile per-packet one-way delay: 53.957 ms

Loss rate: 0.31%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-03-27 05:43:31

End at: 2018-03-27 05:44:01

Below is generated by plot.py at 2018-03-27 09:06:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.45 Mbit/s

95th percentile per-packet one-way delay: 61.066 ms

Loss rate: 0.36%

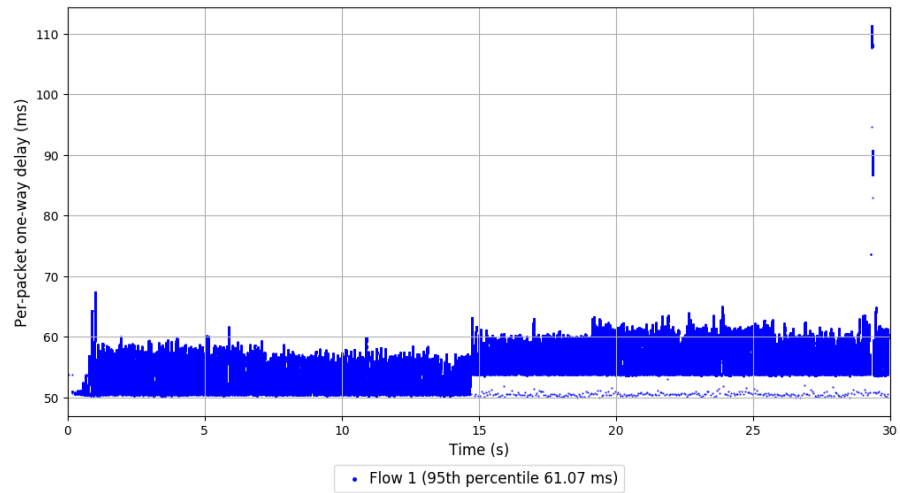
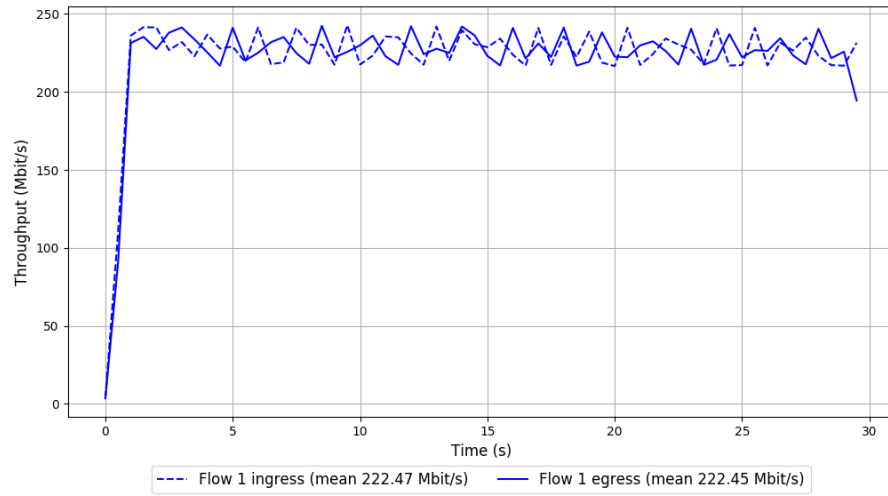
-- Flow 1:

Average throughput: 222.45 Mbit/s

95th percentile per-packet one-way delay: 61.066 ms

Loss rate: 0.36%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-03-27 03:33:47

End at: 2018-03-27 03:34:18

Below is generated by plot.py at 2018-03-27 09:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.79 Mbit/s

95th percentile per-packet one-way delay: 98.345 ms

Loss rate: 0.34%

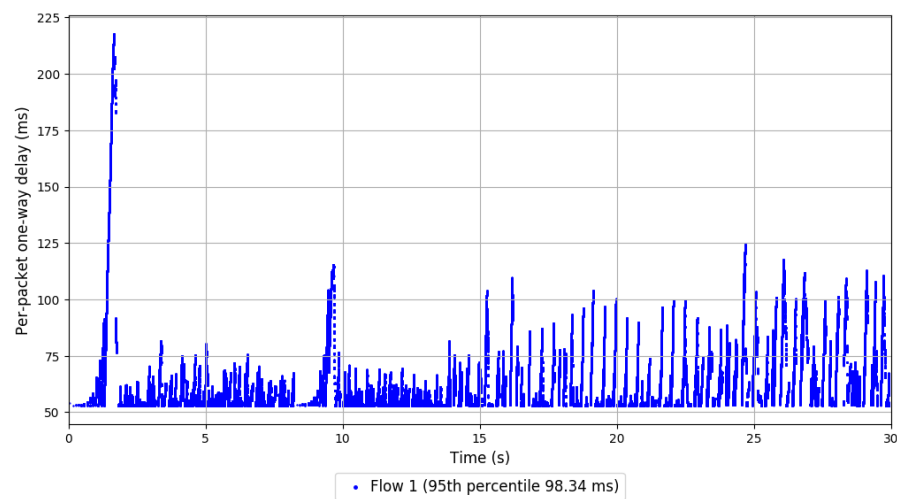
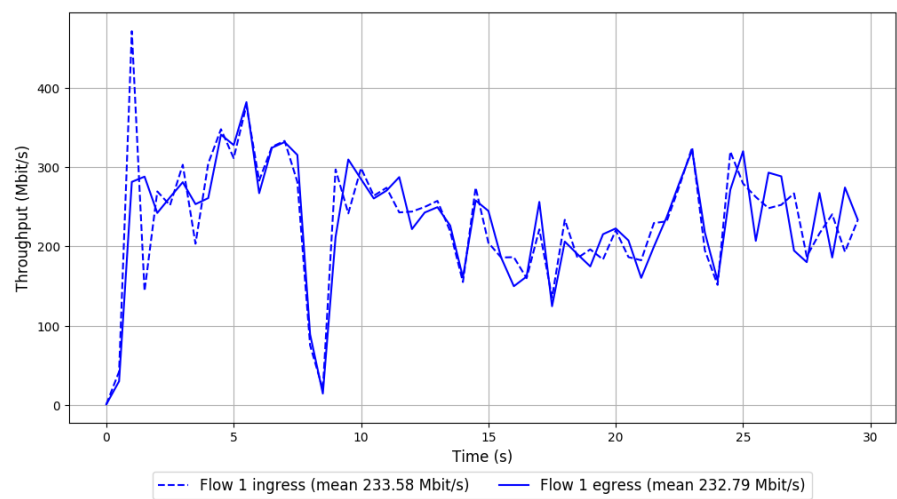
-- Flow 1:

Average throughput: 232.79 Mbit/s

95th percentile per-packet one-way delay: 98.345 ms

Loss rate: 0.34%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

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

End at: 2018-03-27 03:48:24

Below is generated by plot.py at 2018-03-27 09:07:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.23 Mbit/s

95th percentile per-packet one-way delay: 101.448 ms

Loss rate: 0.24%

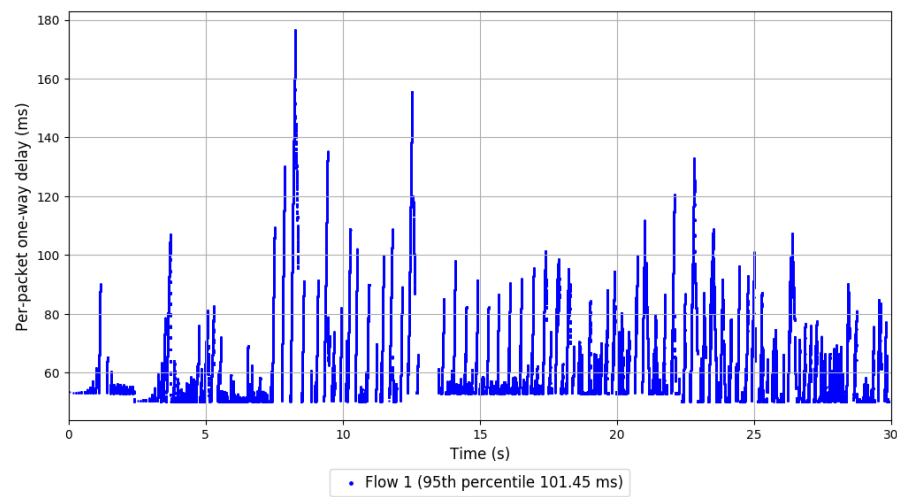
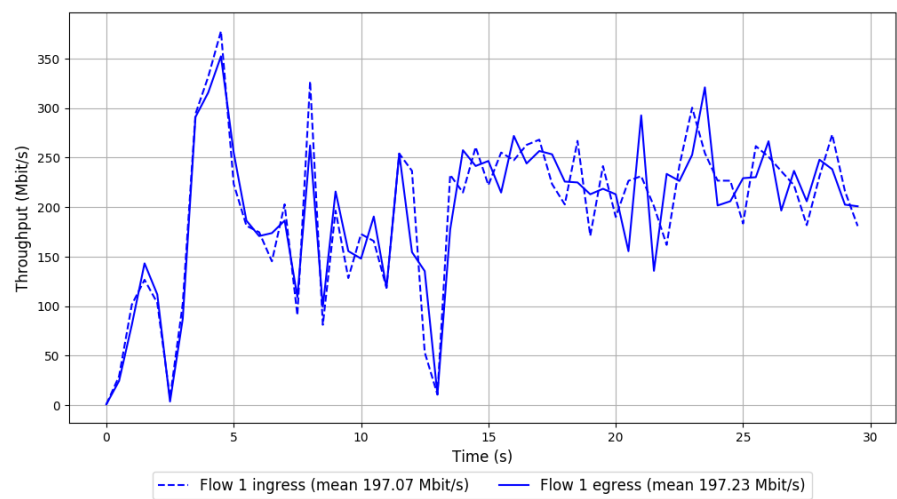
-- Flow 1:

Average throughput: 197.23 Mbit/s

95th percentile per-packet one-way delay: 101.448 ms

Loss rate: 0.24%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-03-27 04:02:01

End at: 2018-03-27 04:02:31

Below is generated by plot.py at 2018-03-27 09:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 217.775 ms

Loss rate: 2.25%

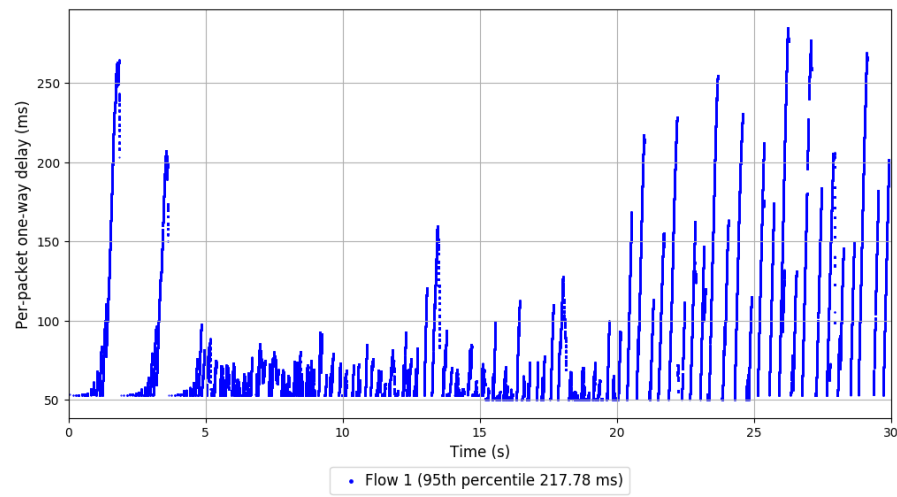
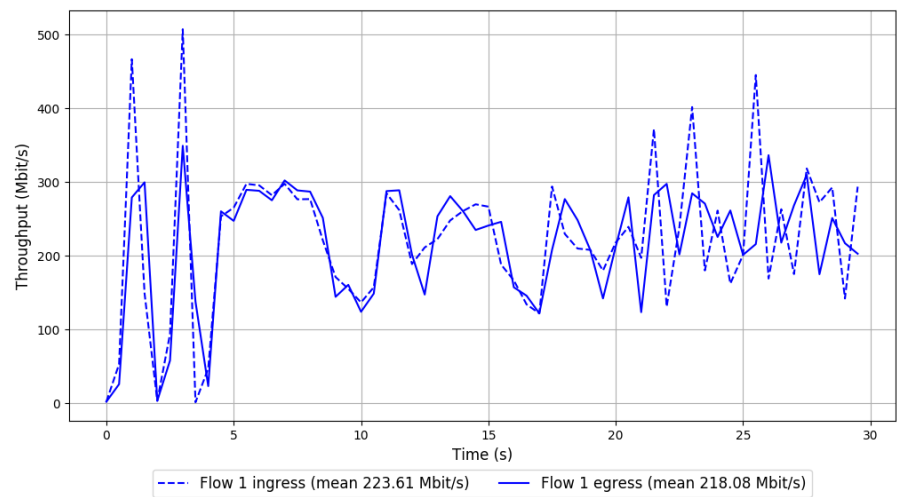
-- Flow 1:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 217.775 ms

Loss rate: 2.25%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-03-27 04:16:13

End at: 2018-03-27 04:16:43

Below is generated by plot.py at 2018-03-27 09:08:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.54 Mbit/s

95th percentile per-packet one-way delay: 128.554 ms

Loss rate: 0.32%

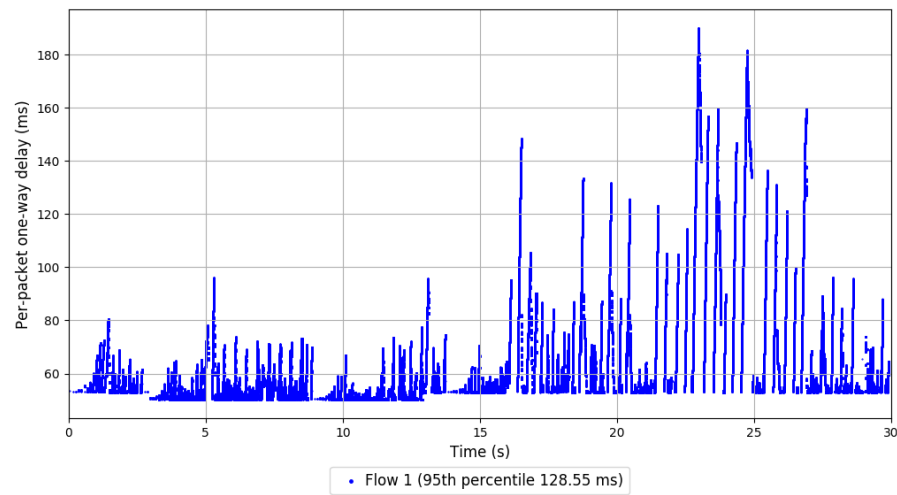
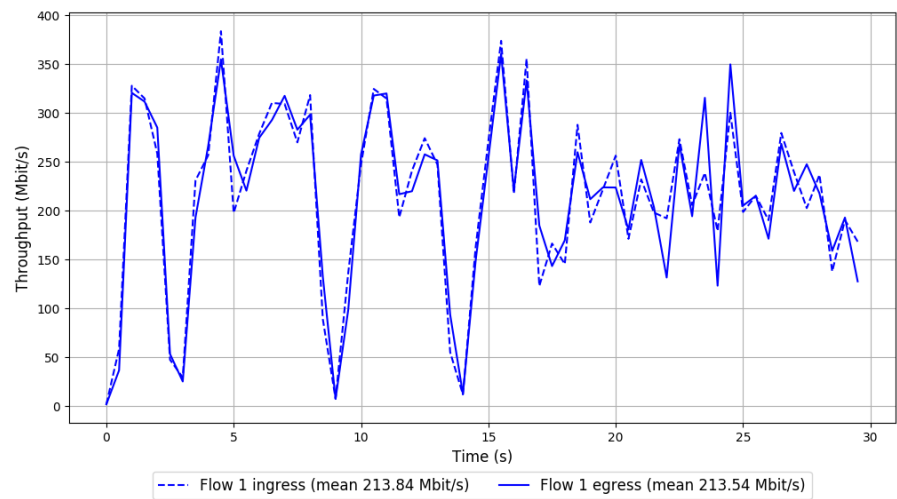
-- Flow 1:

Average throughput: 213.54 Mbit/s

95th percentile per-packet one-way delay: 128.554 ms

Loss rate: 0.32%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-03-27 04:30:32

End at: 2018-03-27 04:31:02

Below is generated by plot.py at 2018-03-27 09:08:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.12 Mbit/s

95th percentile per-packet one-way delay: 101.175 ms

Loss rate: 0.32%

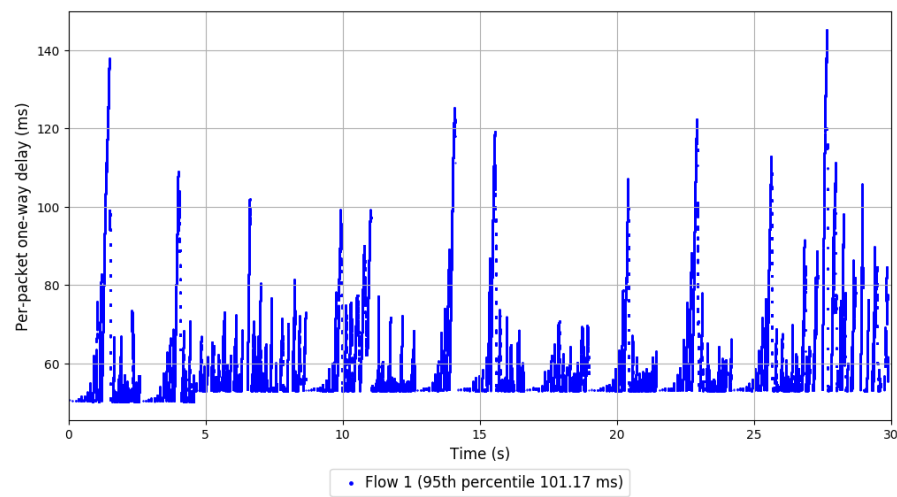
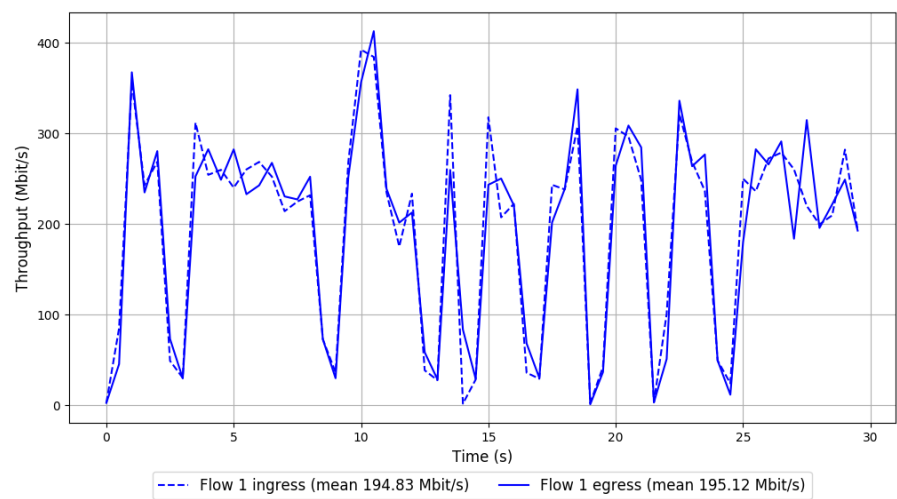
-- Flow 1:

Average throughput: 195.12 Mbit/s

95th percentile per-packet one-way delay: 101.175 ms

Loss rate: 0.32%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-03-27 04:44:52

End at: 2018-03-27 04:45:22

Below is generated by plot.py at 2018-03-27 09:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.26 Mbit/s

95th percentile per-packet one-way delay: 80.501 ms

Loss rate: 0.56%

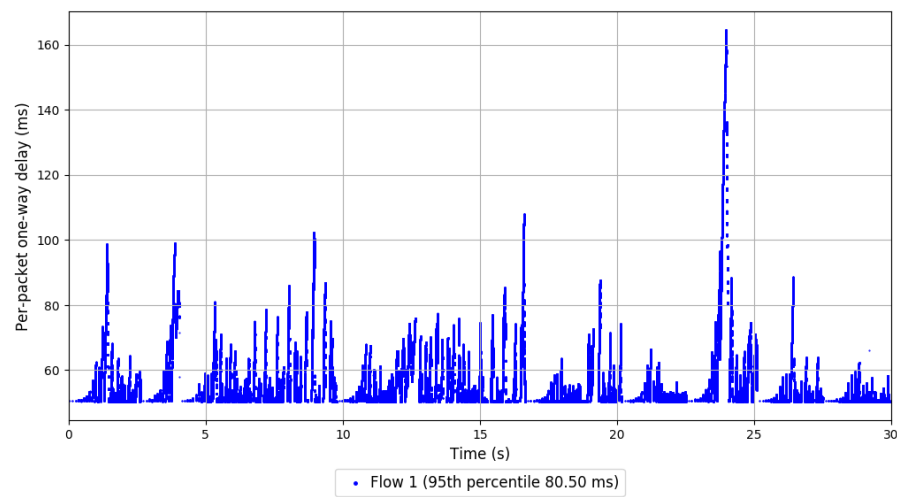
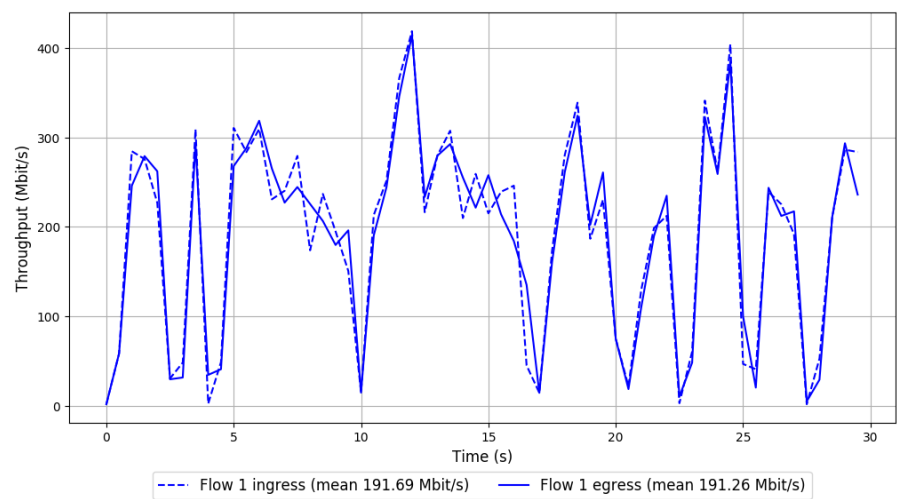
-- Flow 1:

Average throughput: 191.26 Mbit/s

95th percentile per-packet one-way delay: 80.501 ms

Loss rate: 0.56%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-03-27 04:59:02

End at: 2018-03-27 04:59:32

Below is generated by plot.py at 2018-03-27 09:12:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.63 Mbit/s

95th percentile per-packet one-way delay: 146.613 ms

Loss rate: 0.46%

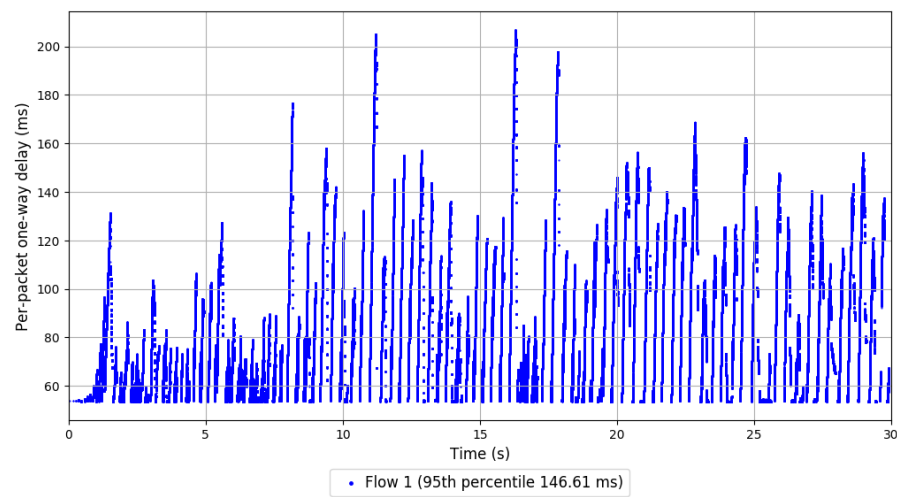
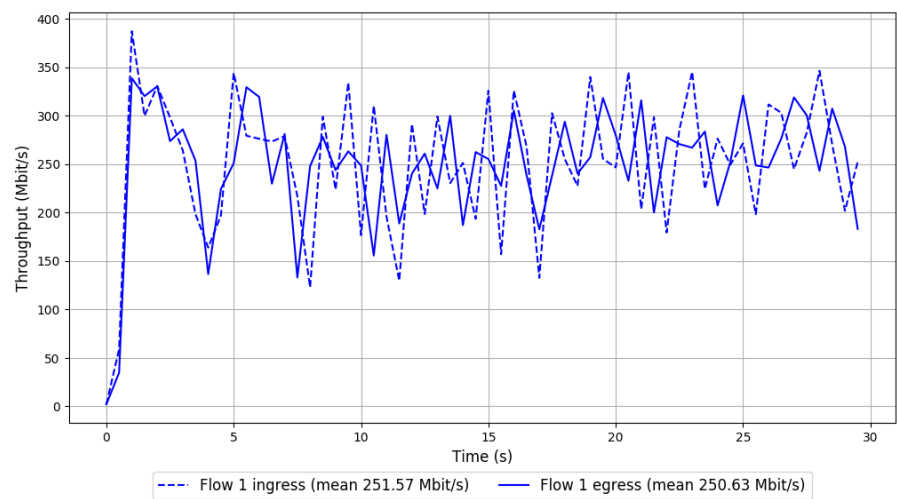
-- Flow 1:

Average throughput: 250.63 Mbit/s

95th percentile per-packet one-way delay: 146.613 ms

Loss rate: 0.46%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-03-27 05:13:14

End at: 2018-03-27 05:13:44

Below is generated by plot.py at 2018-03-27 09:12:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.43 Mbit/s

95th percentile per-packet one-way delay: 95.290 ms

Loss rate: 0.50%

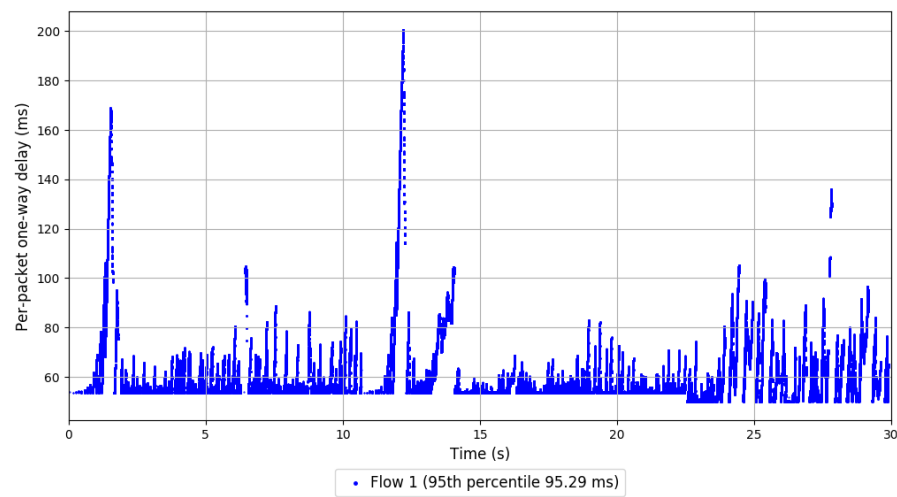
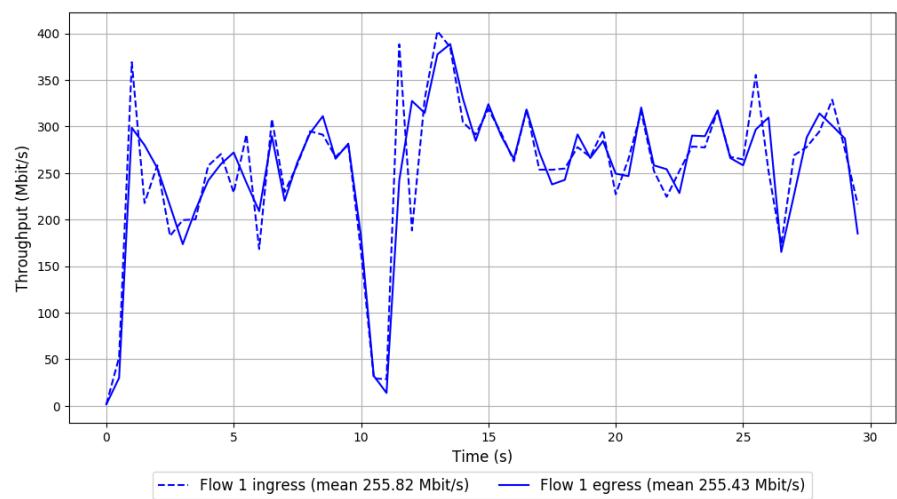
-- Flow 1:

Average throughput: 255.43 Mbit/s

95th percentile per-packet one-way delay: 95.290 ms

Loss rate: 0.50%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

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

End at: 2018-03-27 05:28:08

Below is generated by plot.py at 2018-03-27 09:12:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.37 Mbit/s

95th percentile per-packet one-way delay: 253.085 ms

Loss rate: 1.48%

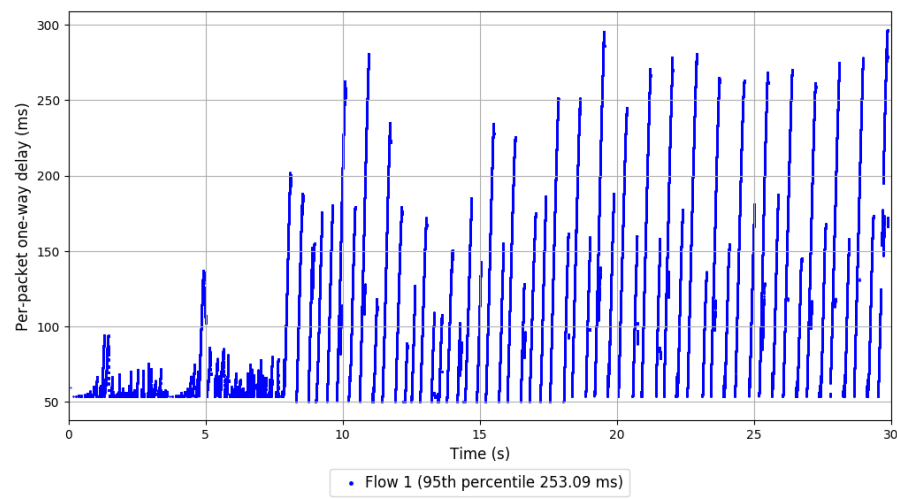
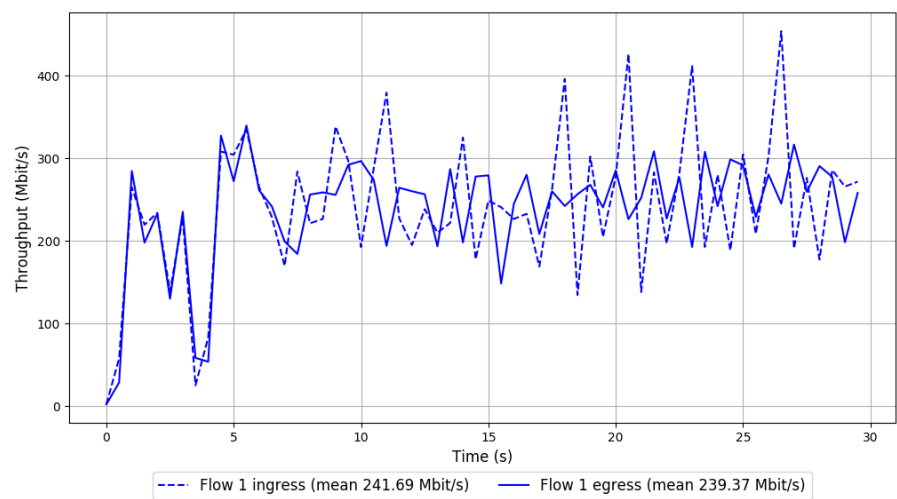
-- Flow 1:

Average throughput: 239.37 Mbit/s

95th percentile per-packet one-way delay: 253.085 ms

Loss rate: 1.48%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-03-27 05:41:59

End at: 2018-03-27 05:42:29

Below is generated by plot.py at 2018-03-27 09:12:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.13 Mbit/s

95th percentile per-packet one-way delay: 100.569 ms

Loss rate: 0.66%

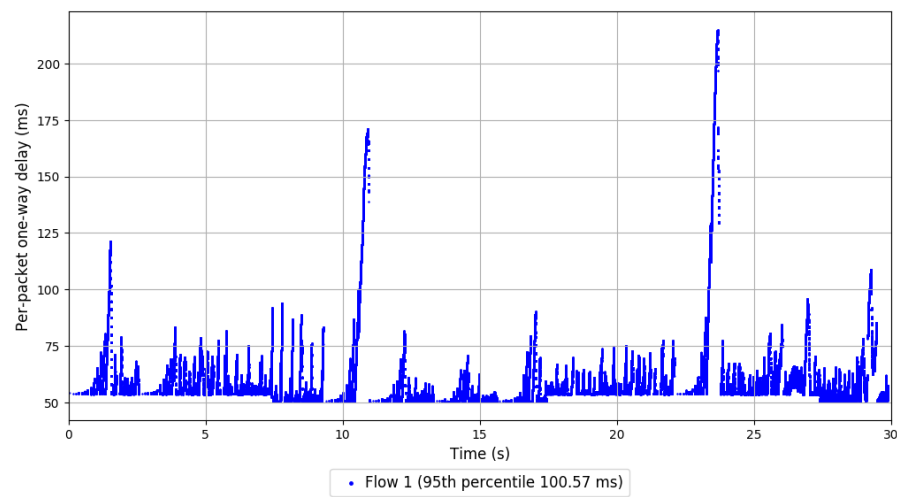
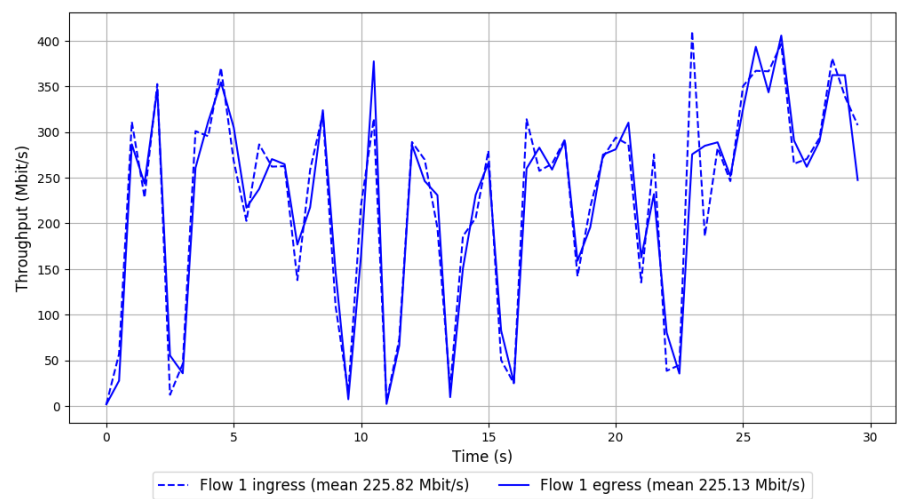
-- Flow 1:

Average throughput: 225.13 Mbit/s

95th percentile per-packet one-way delay: 100.569 ms

Loss rate: 0.66%

Run 10: Report of Verus — Data Link

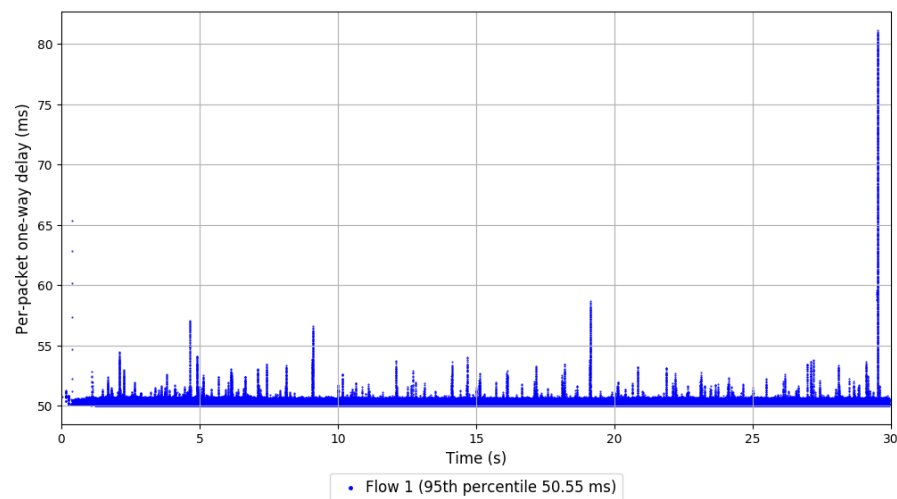
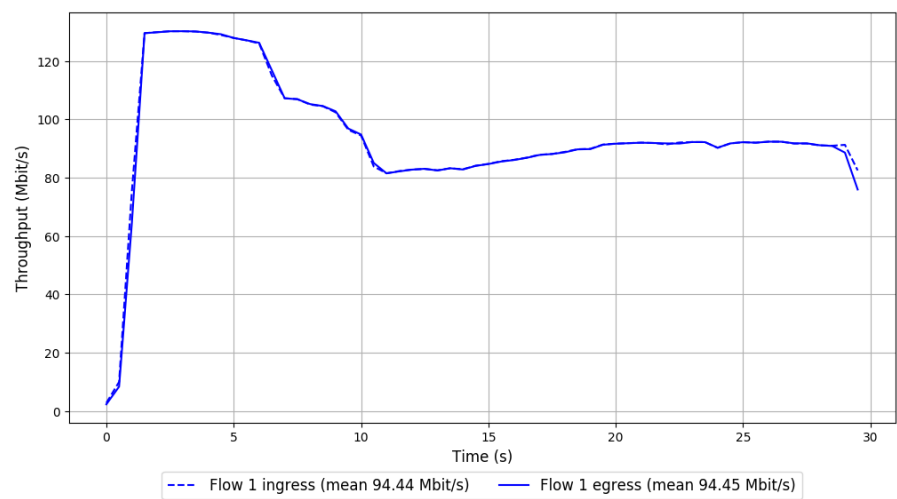


```
Run 1: Statistics of Copa

Start at: 2018-03-27 03:40:28
End at: 2018-03-27 03:40:58

# Below is generated by plot.py at 2018-03-27 09:12:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 94.45 Mbit/s
95th percentile per-packet one-way delay: 50.551 ms
Loss rate: 0.32%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

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

End at: 2018-03-27 03:55:09

Below is generated by plot.py at 2018-03-27 09:12:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.76 Mbit/s

95th percentile per-packet one-way delay: 52.987 ms

Loss rate: 0.26%

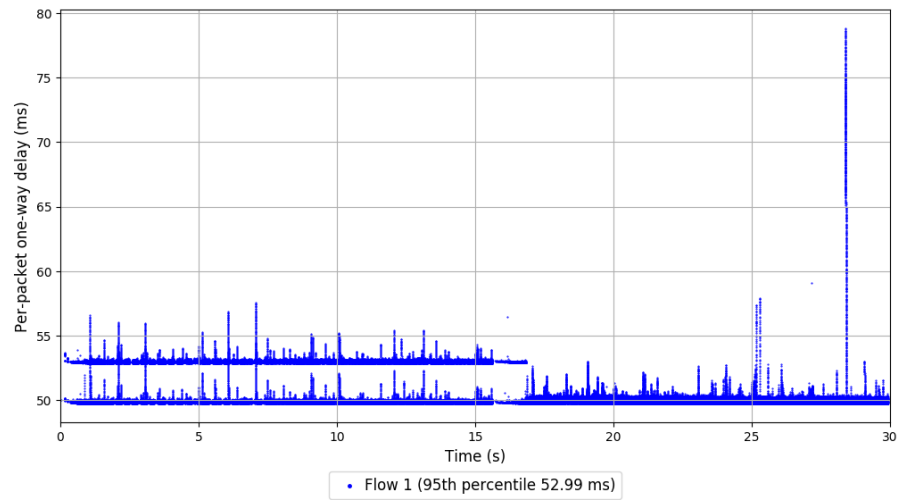
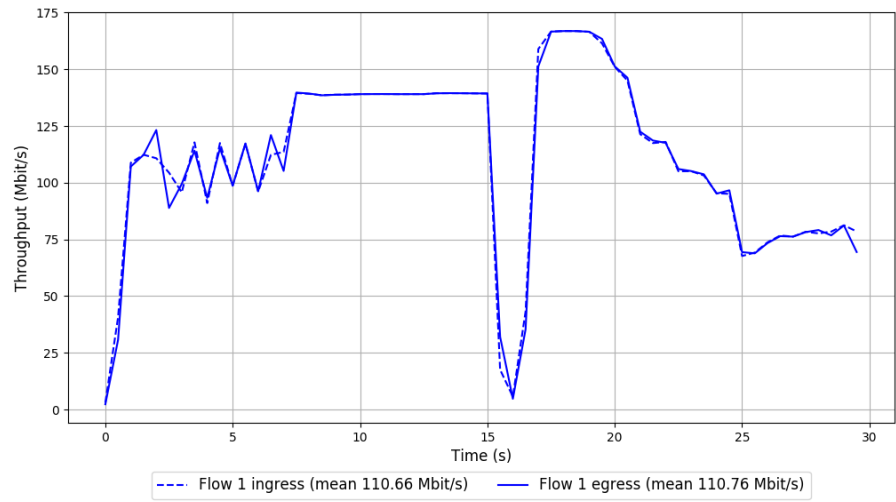
-- Flow 1:

Average throughput: 110.76 Mbit/s

95th percentile per-packet one-way delay: 52.987 ms

Loss rate: 0.26%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-03-27 04:08:51

End at: 2018-03-27 04:09:21

Below is generated by plot.py at 2018-03-27 09:12:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.47 Mbit/s

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

Loss rate: 0.42%

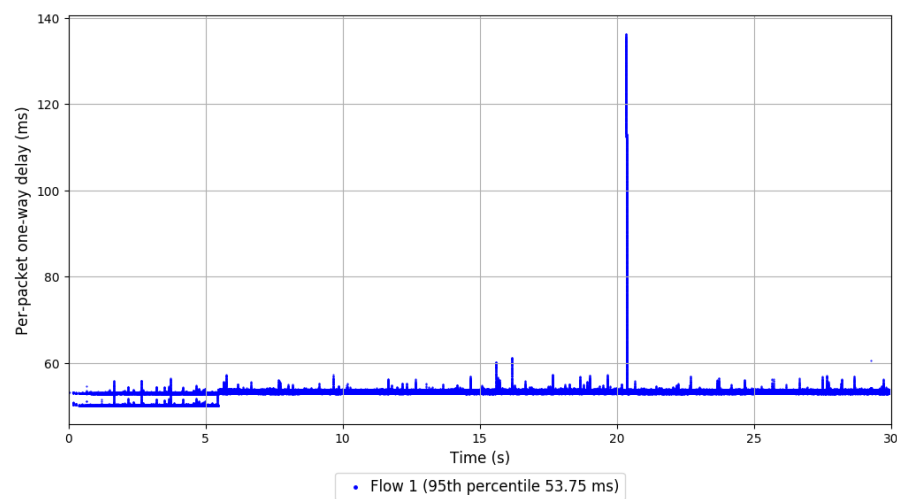
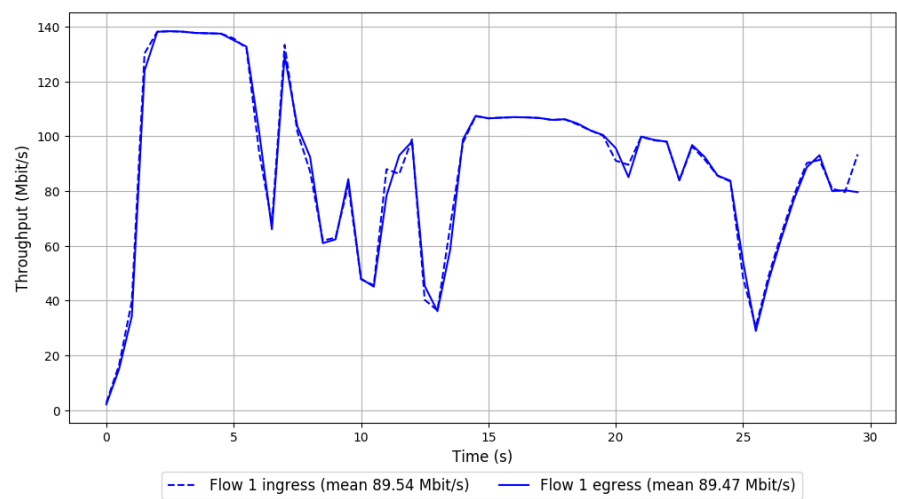
-- Flow 1:

Average throughput: 89.47 Mbit/s

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

Loss rate: 0.42%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-03-27 04:23:10

End at: 2018-03-27 04:23:40

Below is generated by plot.py at 2018-03-27 09:12:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.22 Mbit/s

95th percentile per-packet one-way delay: 53.060 ms

Loss rate: 0.33%

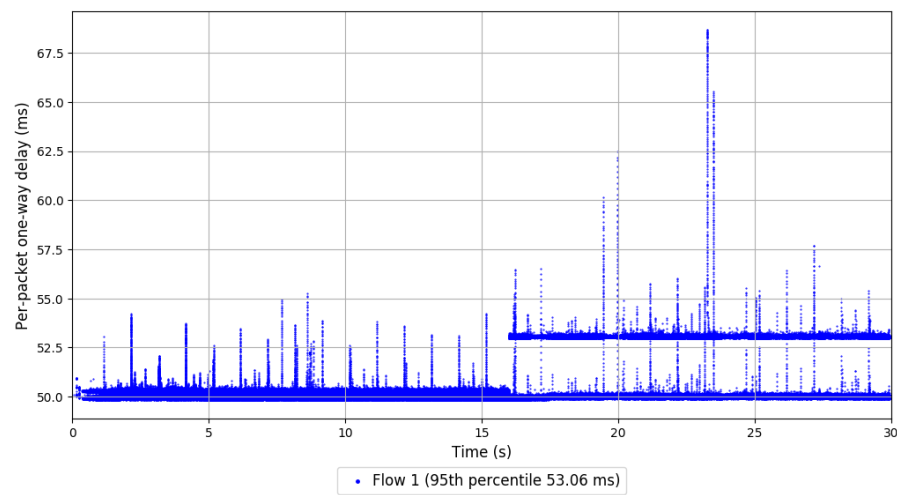
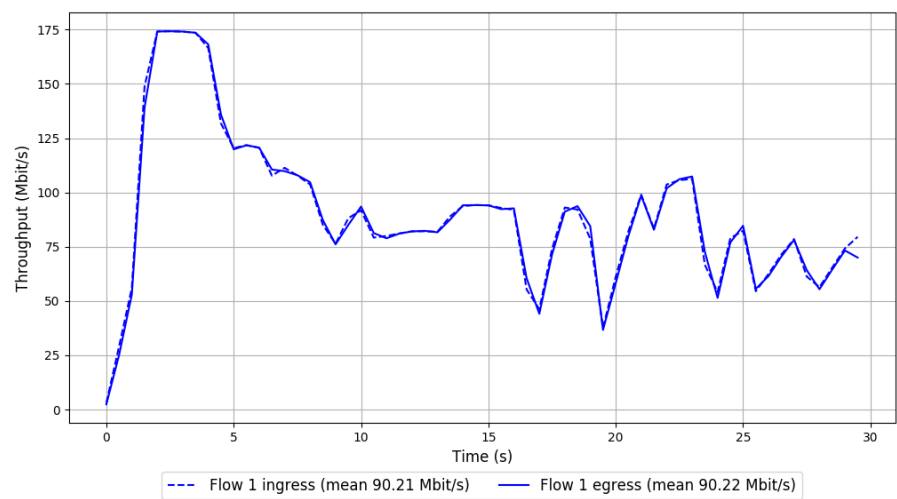
-- Flow 1:

Average throughput: 90.22 Mbit/s

95th percentile per-packet one-way delay: 53.060 ms

Loss rate: 0.33%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-03-27 04:37:14

End at: 2018-03-27 04:37:44

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.12 Mbit/s

95th percentile per-packet one-way delay: 236.574 ms

Loss rate: 25.81%

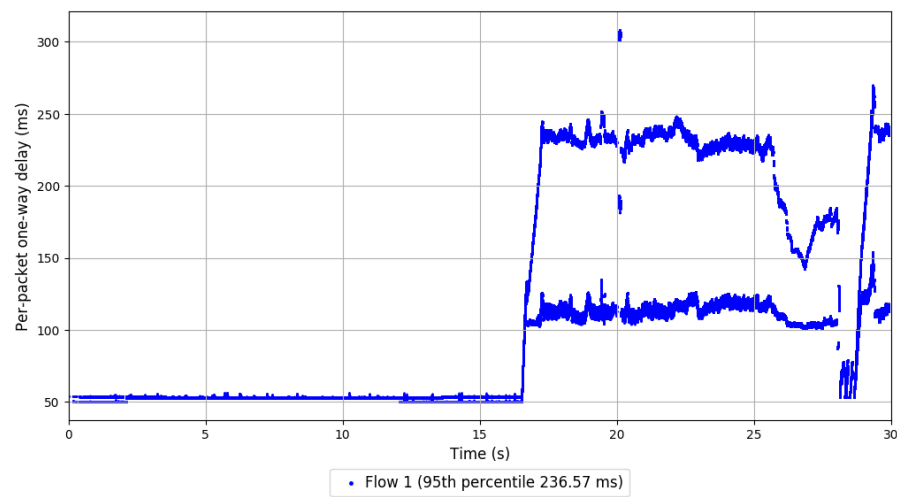
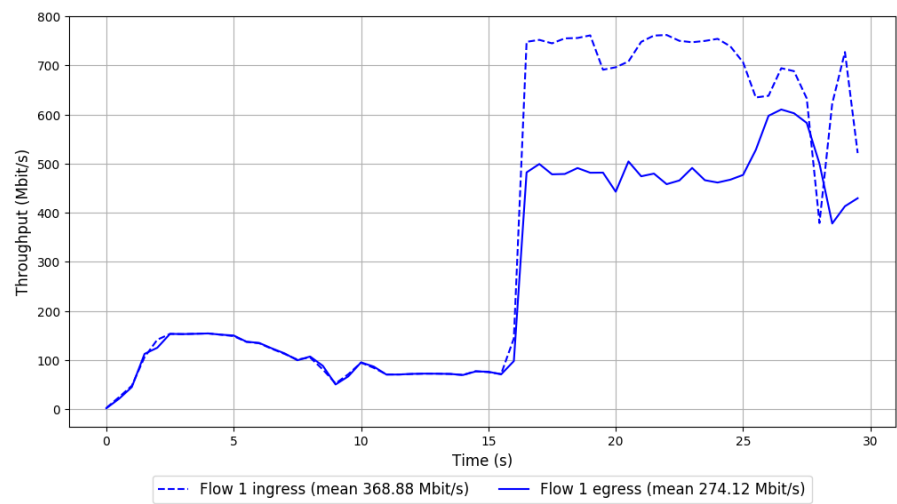
-- Flow 1:

Average throughput: 274.12 Mbit/s

95th percentile per-packet one-way delay: 236.574 ms

Loss rate: 25.81%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-03-27 04:51:40

End at: 2018-03-27 04:52:10

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.64%

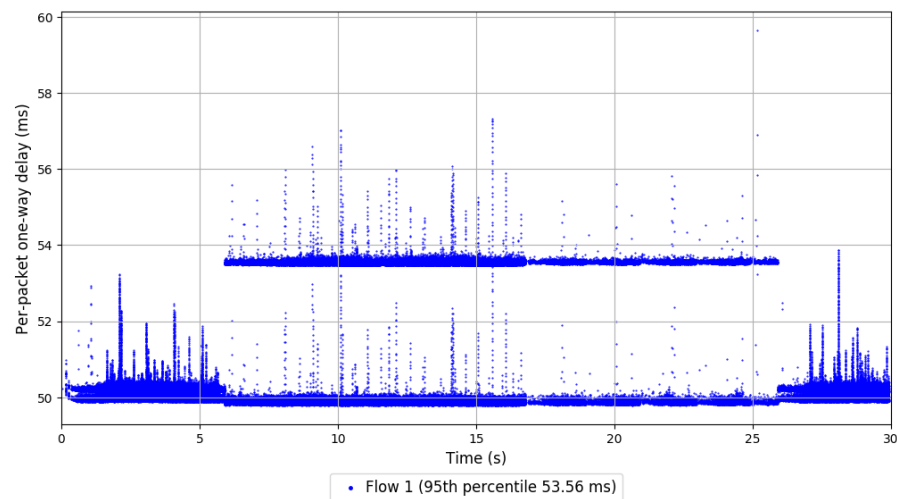
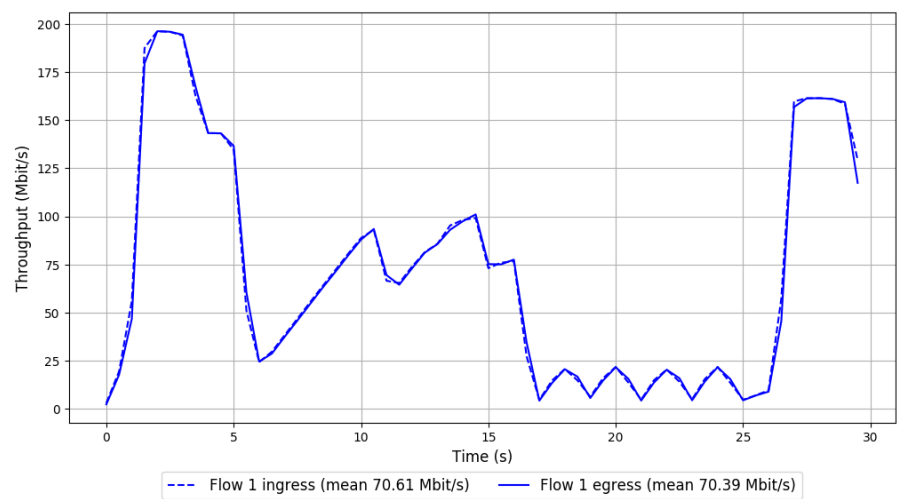
-- Flow 1:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 53.559 ms

Loss rate: 0.64%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-03-27 05:05:50

End at: 2018-03-27 05:06:20

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 53.502 ms

Loss rate: 0.37%

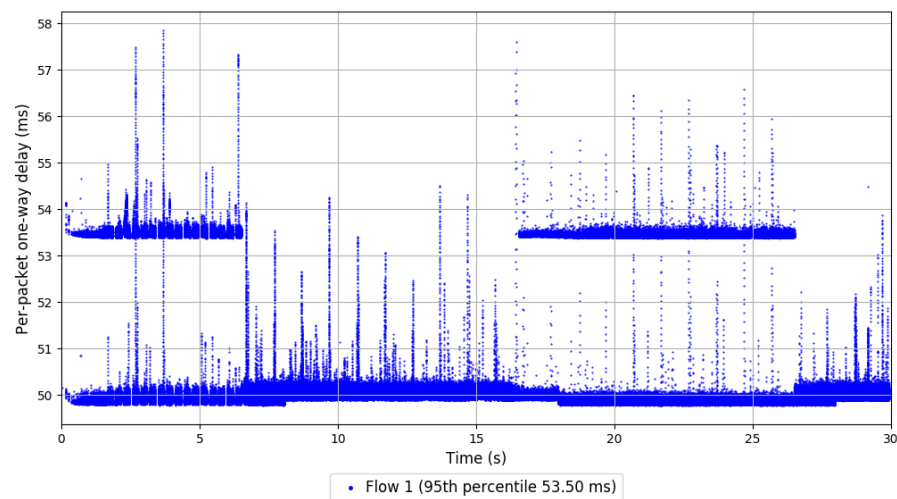
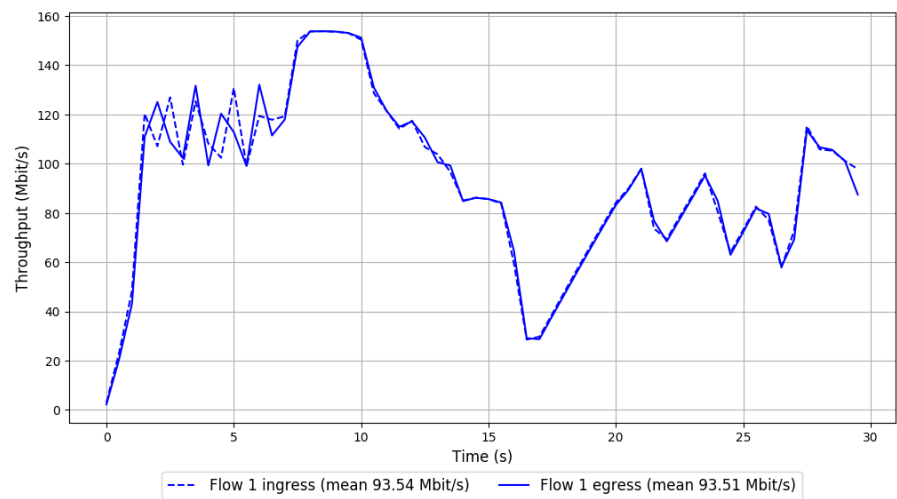
-- Flow 1:

Average throughput: 93.51 Mbit/s

95th percentile per-packet one-way delay: 53.502 ms

Loss rate: 0.37%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-03-27 05:20:17

End at: 2018-03-27 05:20:47

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.23%

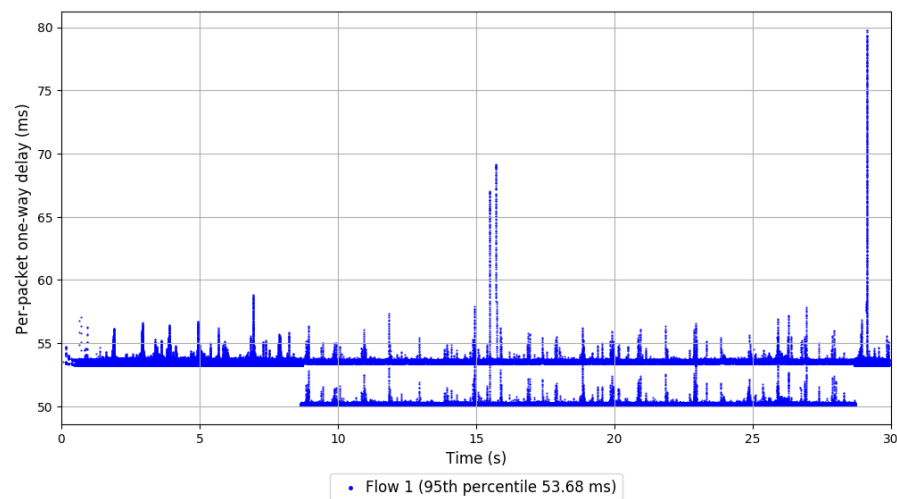
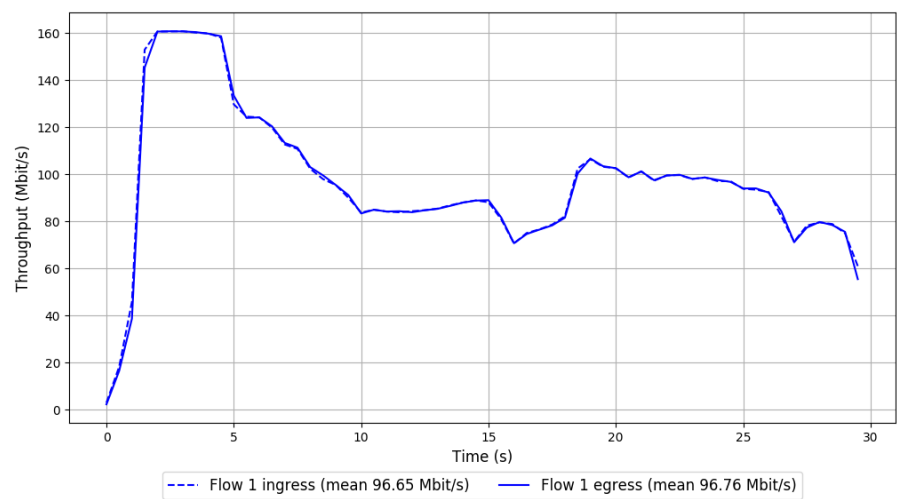
-- Flow 1:

Average throughput: 96.76 Mbit/s

95th percentile per-packet one-way delay: 53.676 ms

Loss rate: 0.23%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-03-27 05:34:28

End at: 2018-03-27 05:34:58

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.69 Mbit/s

95th percentile per-packet one-way delay: 228.805 ms

Loss rate: 20.38%

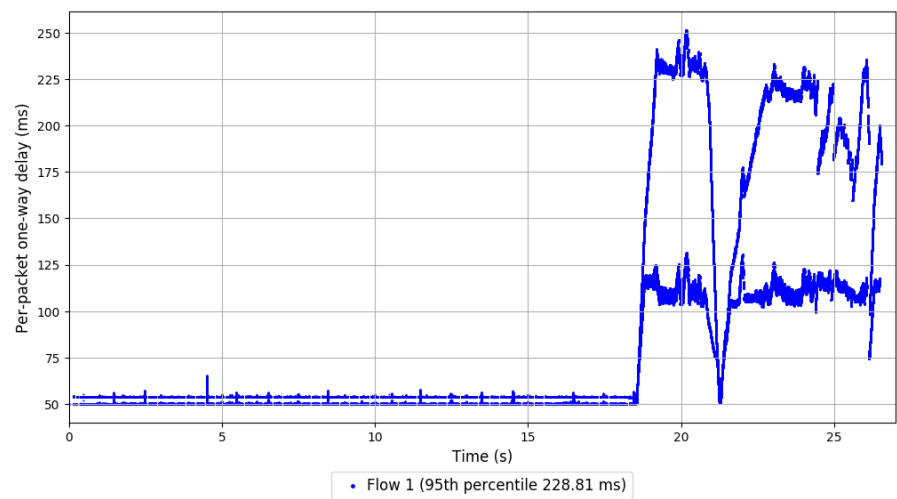
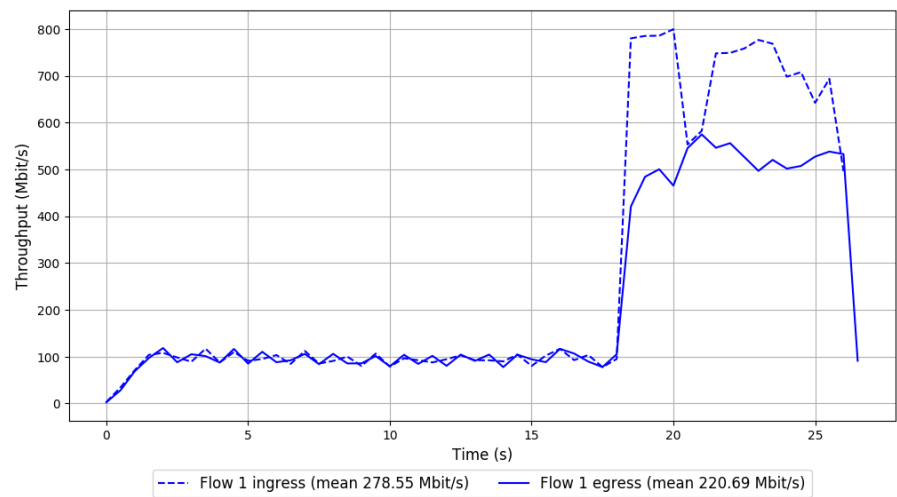
-- Flow 1:

Average throughput: 220.69 Mbit/s

95th percentile per-packet one-way delay: 228.805 ms

Loss rate: 20.38%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-03-27 05:48:52

End at: 2018-03-27 05:49:22

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.11%

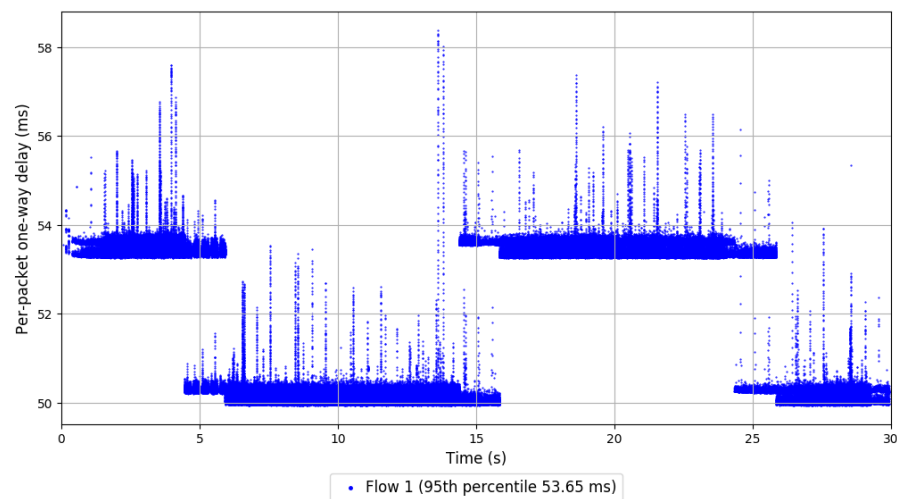
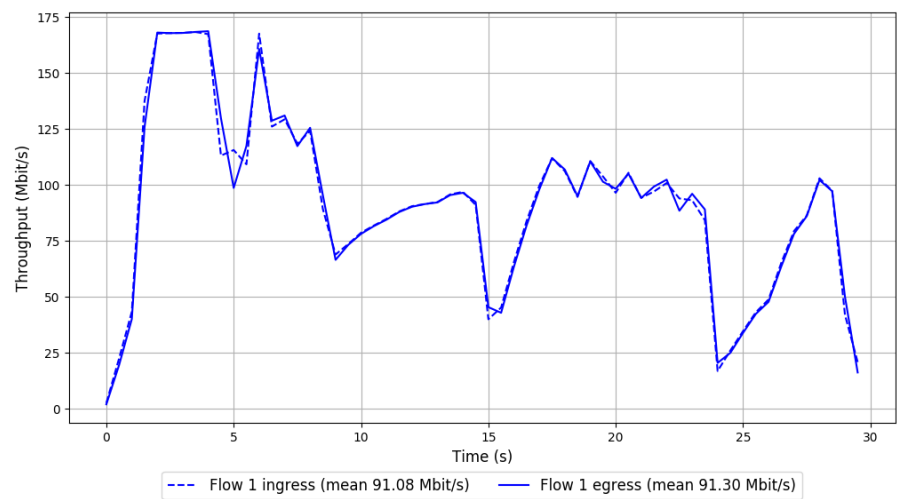
-- Flow 1:

Average throughput: 91.30 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 0.11%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-03-27 03:41:53

End at: 2018-03-27 03:42:23

Below is generated by plot.py at 2018-03-27 09:28:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 669.07 Mbit/s

95th percentile per-packet one-way delay: 324.736 ms

Loss rate: 16.86%

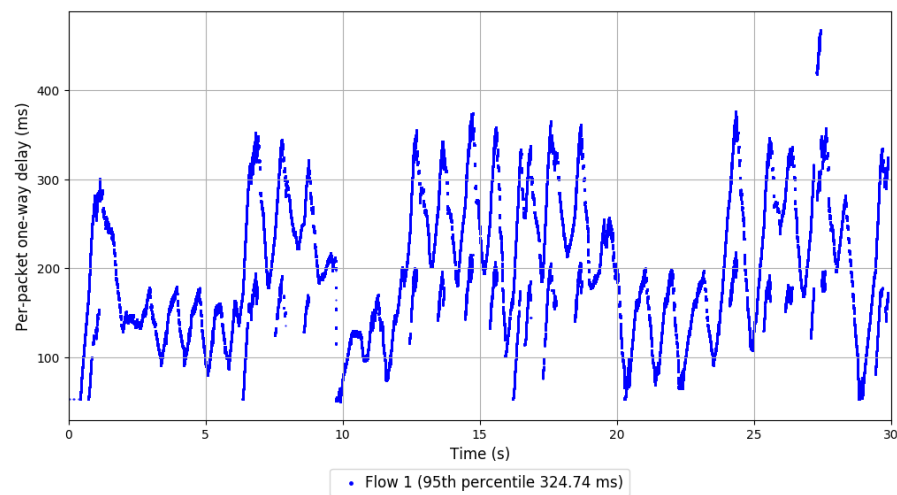
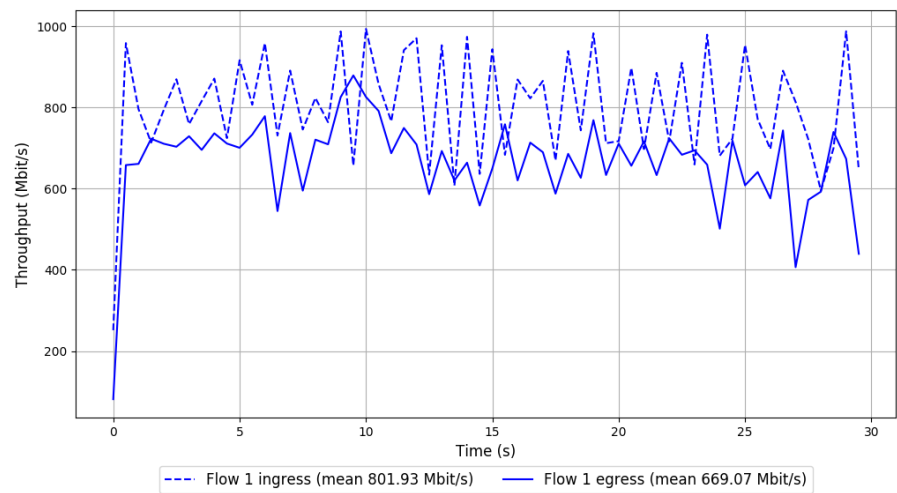
-- Flow 1:

Average throughput: 669.07 Mbit/s

95th percentile per-packet one-way delay: 324.736 ms

Loss rate: 16.86%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

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

End at: 2018-03-27 03:56:34

Below is generated by plot.py at 2018-03-27 09:30:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 772.24 Mbit/s

95th percentile per-packet one-way delay: 243.847 ms

Loss rate: 11.00%

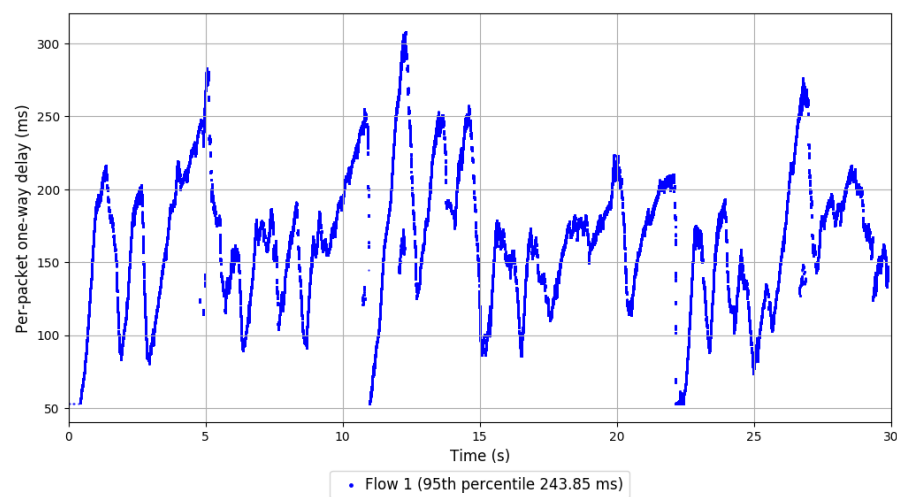
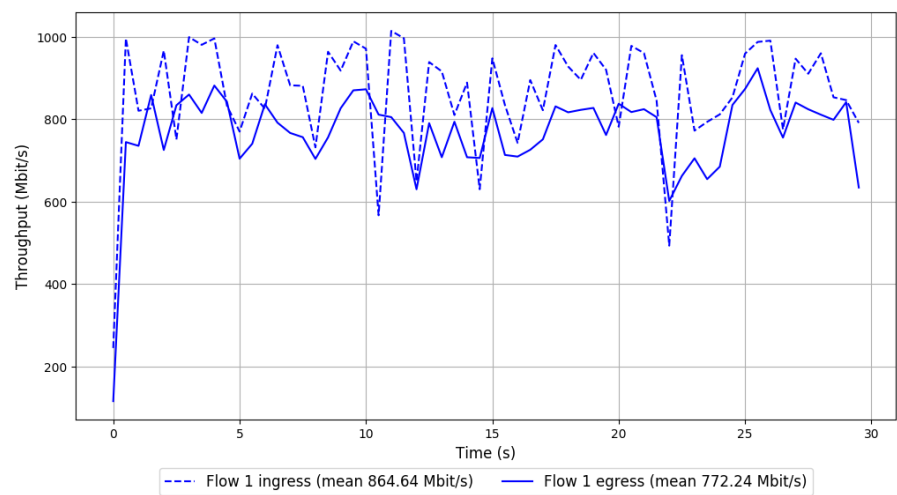
-- Flow 1:

Average throughput: 772.24 Mbit/s

95th percentile per-packet one-way delay: 243.847 ms

Loss rate: 11.00%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-03-27 04:10:15

End at: 2018-03-27 04:10:45

Below is generated by plot.py at 2018-03-27 09:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.11 Mbit/s

95th percentile per-packet one-way delay: 173.780 ms

Loss rate: 4.48%

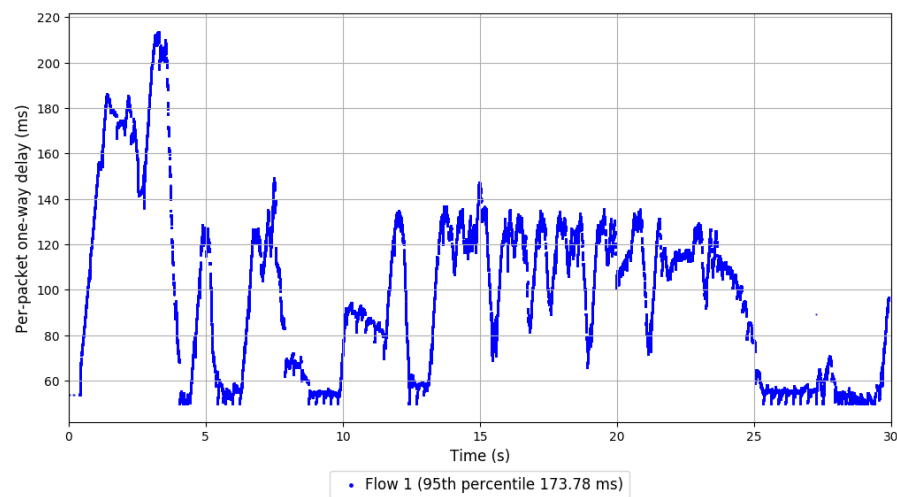
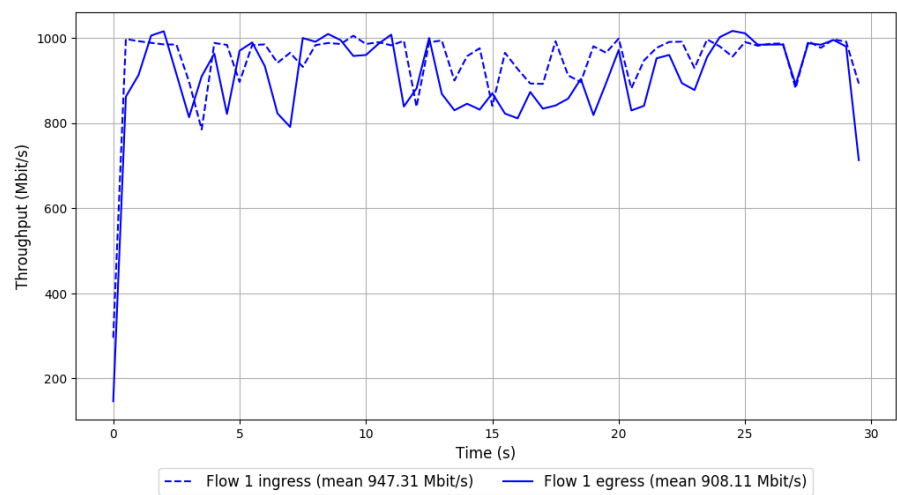
-- Flow 1:

Average throughput: 908.11 Mbit/s

95th percentile per-packet one-way delay: 173.780 ms

Loss rate: 4.48%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-03-27 04:24:35

End at: 2018-03-27 04:25:05

Below is generated by plot.py at 2018-03-27 09:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 719.41 Mbit/s

95th percentile per-packet one-way delay: 260.233 ms

Loss rate: 12.76%

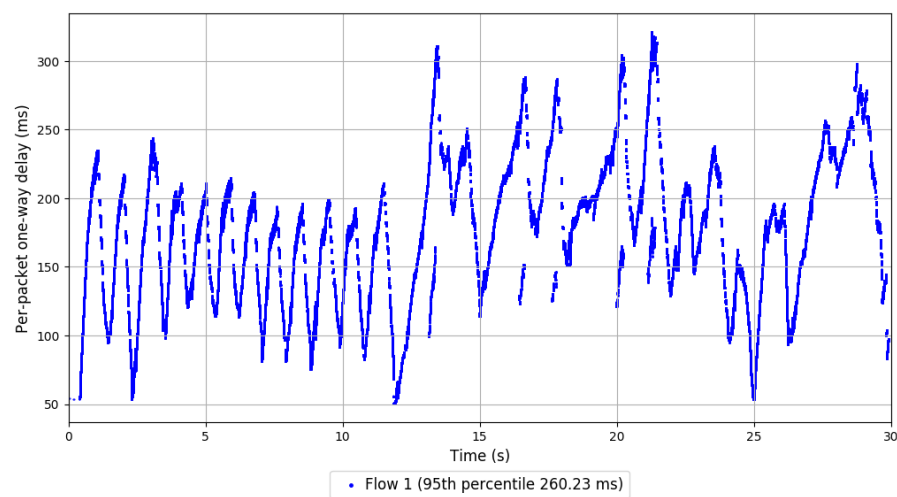
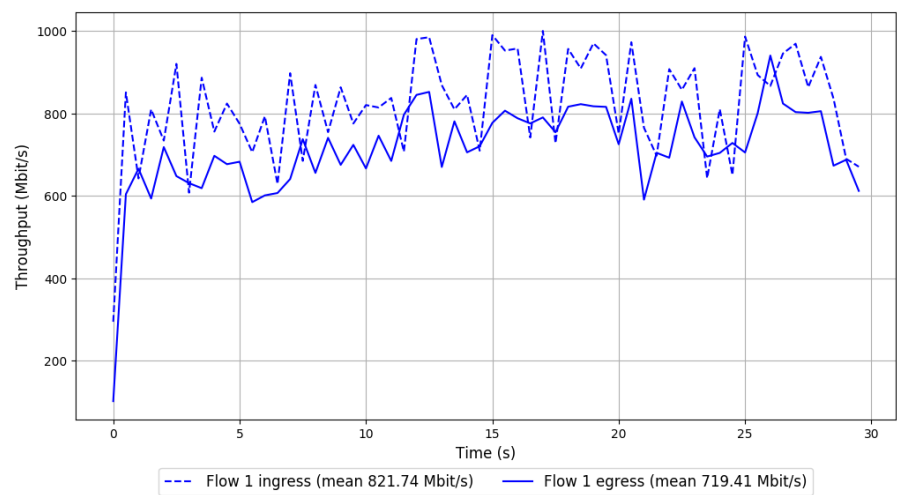
-- Flow 1:

Average throughput: 719.41 Mbit/s

95th percentile per-packet one-way delay: 260.233 ms

Loss rate: 12.76%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-03-27 04:38:52

End at: 2018-03-27 04:39:22

Below is generated by plot.py at 2018-03-27 09:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.17 Mbit/s

95th percentile per-packet one-way delay: 229.408 ms

Loss rate: 11.82%

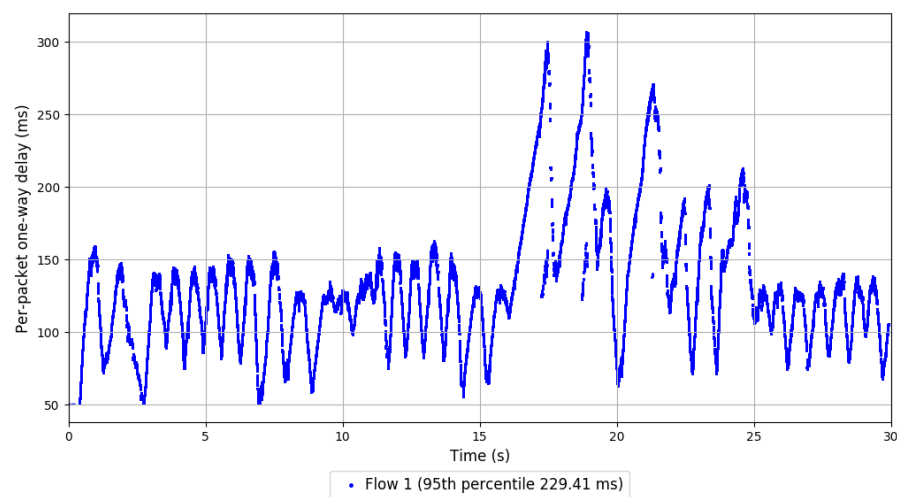
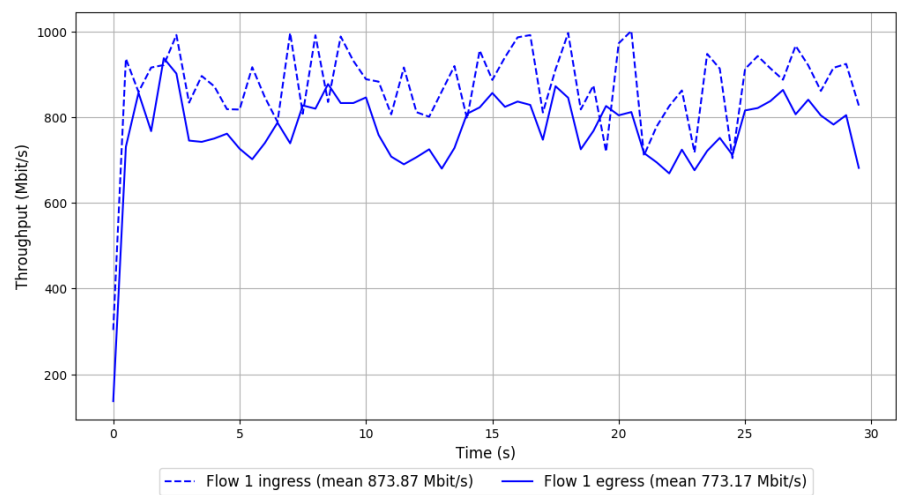
-- Flow 1:

Average throughput: 773.17 Mbit/s

95th percentile per-packet one-way delay: 229.408 ms

Loss rate: 11.82%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-03-27 04:53:03

End at: 2018-03-27 04:53:33

Below is generated by plot.py at 2018-03-27 09:34:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 709.16 Mbit/s

95th percentile per-packet one-way delay: 270.776 ms

Loss rate: 15.03%

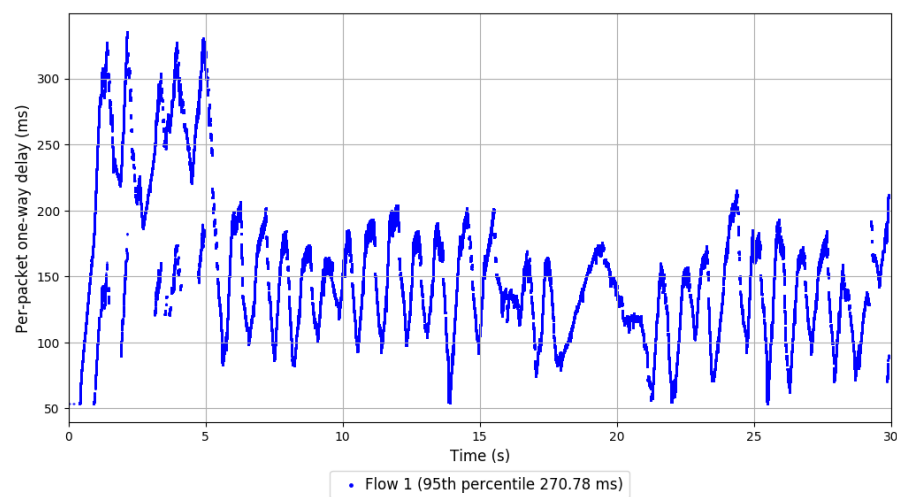
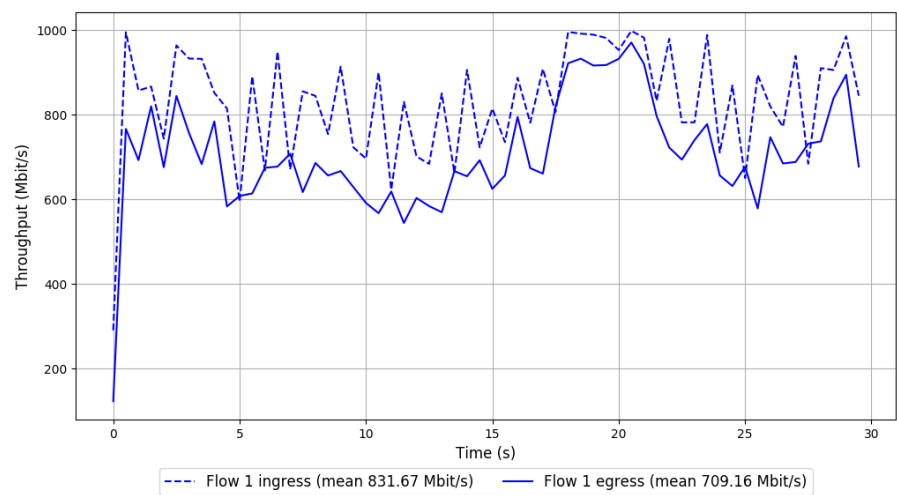
-- Flow 1:

Average throughput: 709.16 Mbit/s

95th percentile per-packet one-way delay: 270.776 ms

Loss rate: 15.03%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-03-27 05:07:14

End at: 2018-03-27 05:07:44

Below is generated by plot.py at 2018-03-27 09:38:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 761.36 Mbit/s

95th percentile per-packet one-way delay: 155.281 ms

Loss rate: 13.03%

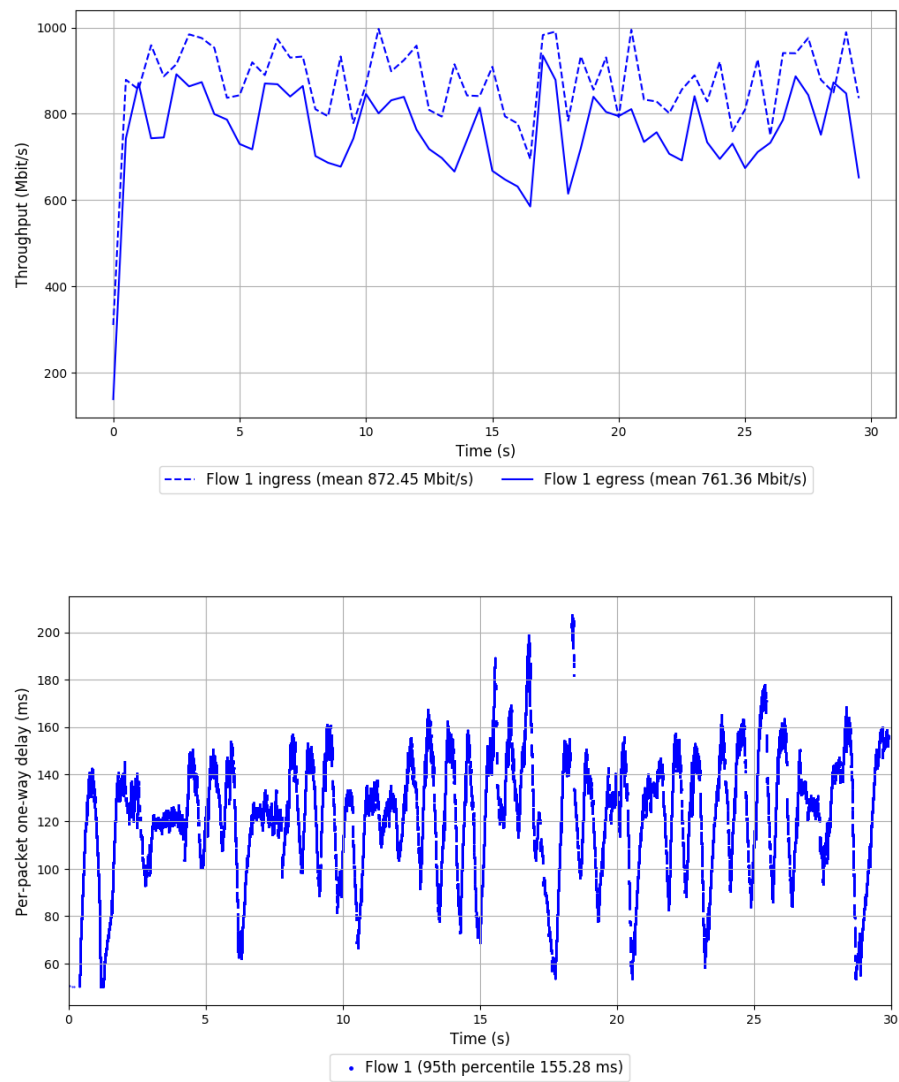
-- Flow 1:

Average throughput: 761.36 Mbit/s

95th percentile per-packet one-way delay: 155.281 ms

Loss rate: 13.03%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-03-27 05:21:43

End at: 2018-03-27 05:22:13

Below is generated by plot.py at 2018-03-27 09:41:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.45 Mbit/s

95th percentile per-packet one-way delay: 151.712 ms

Loss rate: 12.41%

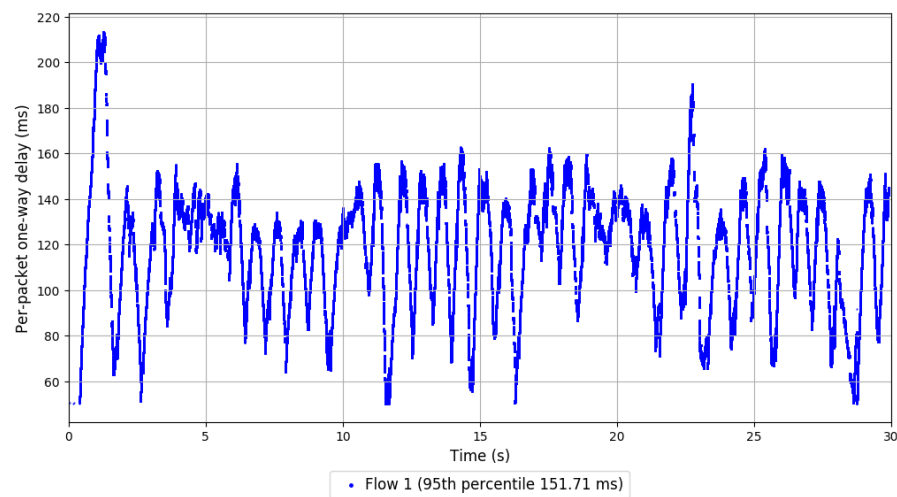
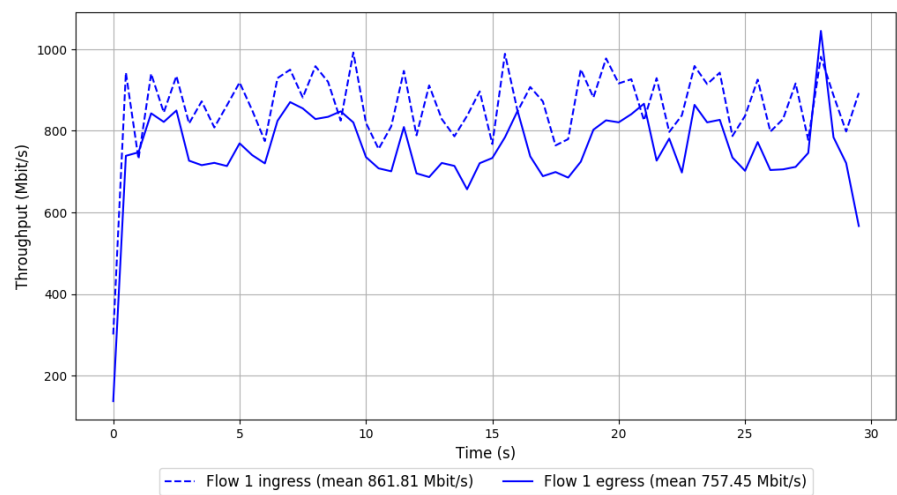
-- Flow 1:

Average throughput: 757.45 Mbit/s

95th percentile per-packet one-way delay: 151.712 ms

Loss rate: 12.41%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-03-27 05:35:58

End at: 2018-03-27 05:36:28

Below is generated by plot.py at 2018-03-27 09:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.56 Mbit/s

95th percentile per-packet one-way delay: 184.348 ms

Loss rate: 11.35%

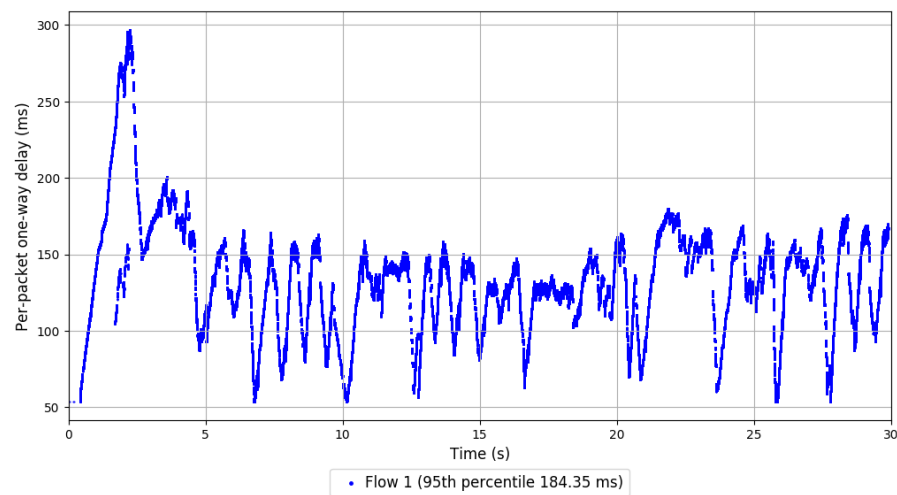
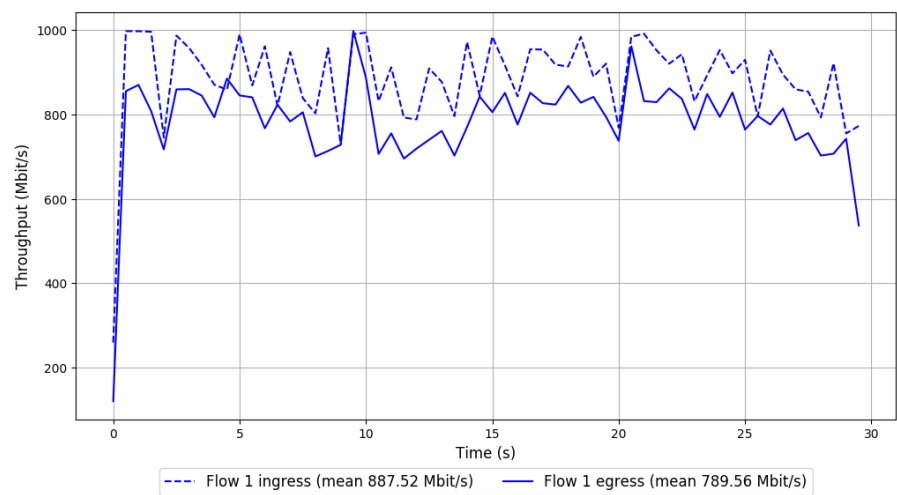
-- Flow 1:

Average throughput: 789.56 Mbit/s

95th percentile per-packet one-way delay: 184.348 ms

Loss rate: 11.35%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-03-27 05:50:16

End at: 2018-03-27 05:50:46

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 786.28 Mbit/s

95th percentile per-packet one-way delay: 157.314 ms

Loss rate: 11.42%

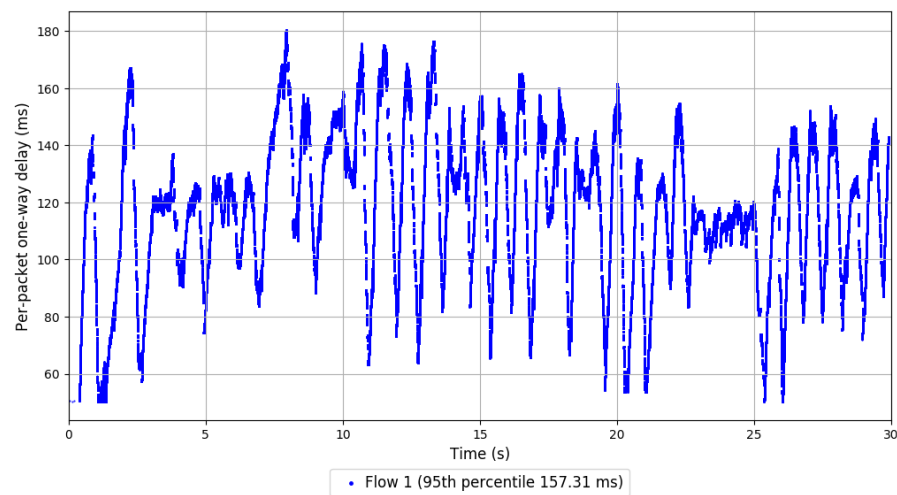
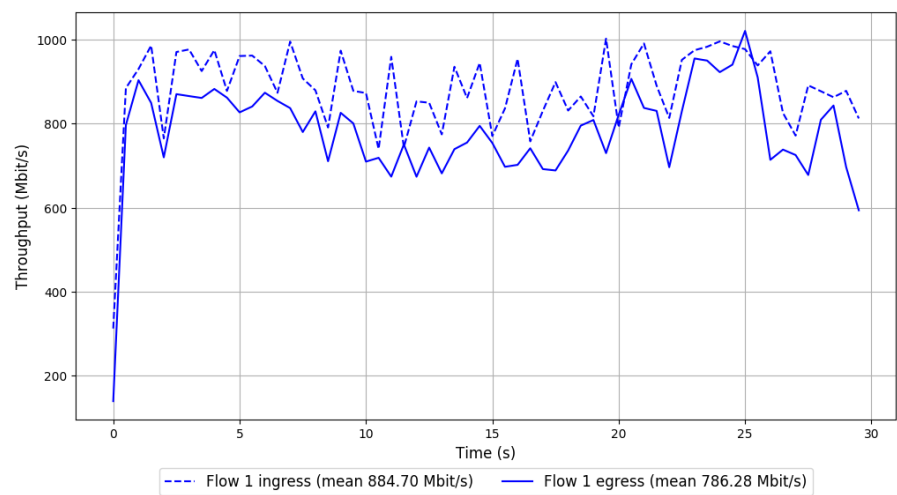
-- Flow 1:

Average throughput: 786.28 Mbit/s

95th percentile per-packet one-way delay: 157.314 ms

Loss rate: 11.42%

Run 10: Report of FillP — Data Link

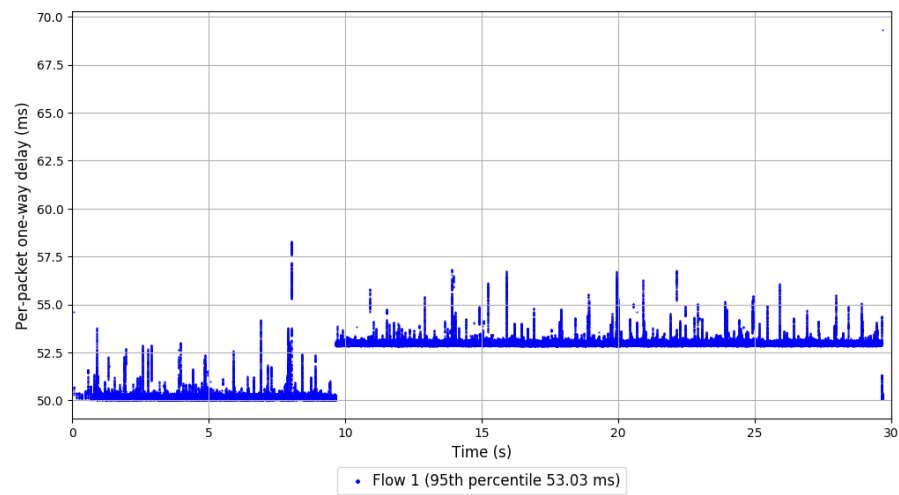
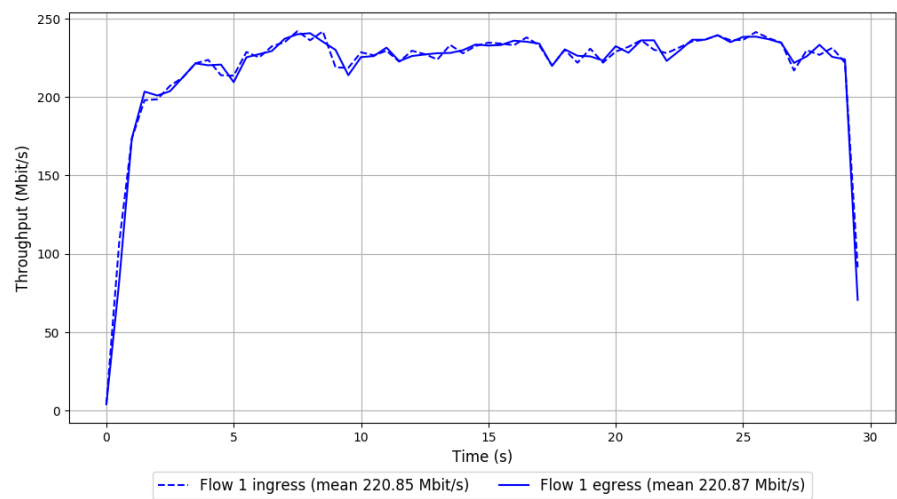


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-03-27 03:31:56
End at: 2018-03-27 03:32:26

# Below is generated by plot.py at 2018-03-27 09:49:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 220.87 Mbit/s
95th percentile per-packet one-way delay: 53.031 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 220.87 Mbit/s
95th percentile per-packet one-way delay: 53.031 ms
Loss rate: 0.34%
```

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



Run 2: Statistics of Indigo-1-32

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

End at: 2018-03-27 03:46:33

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.18 Mbit/s

95th percentile per-packet one-way delay: 53.037 ms

Loss rate: 0.31%

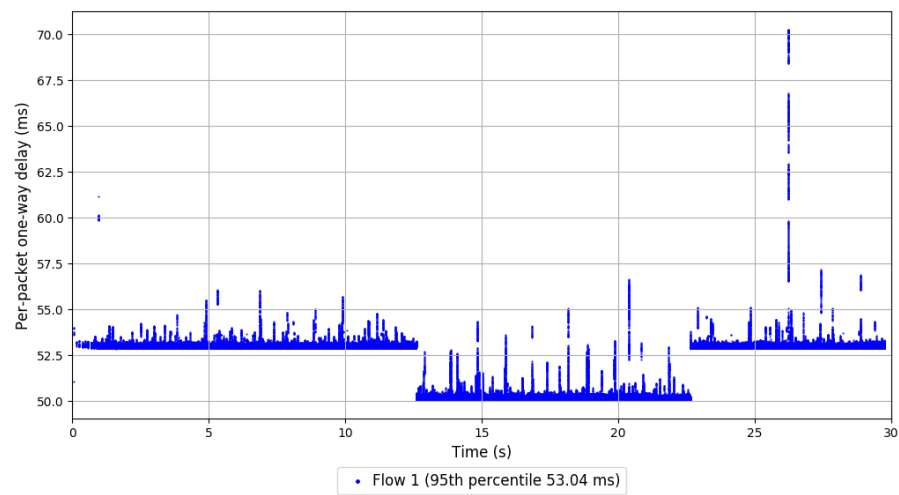
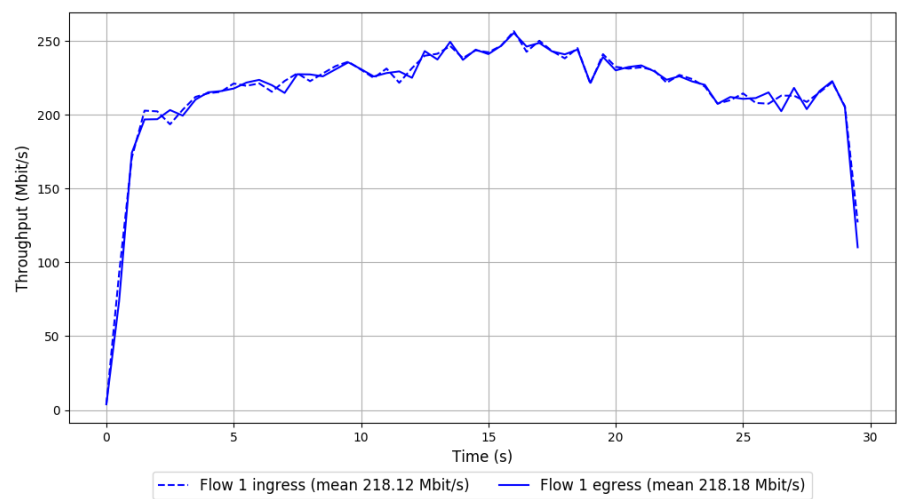
-- Flow 1:

Average throughput: 218.18 Mbit/s

95th percentile per-packet one-way delay: 53.037 ms

Loss rate: 0.31%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-03-27 04:00:10

End at: 2018-03-27 04:00:40

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.62 Mbit/s

95th percentile per-packet one-way delay: 52.985 ms

Loss rate: 0.35%

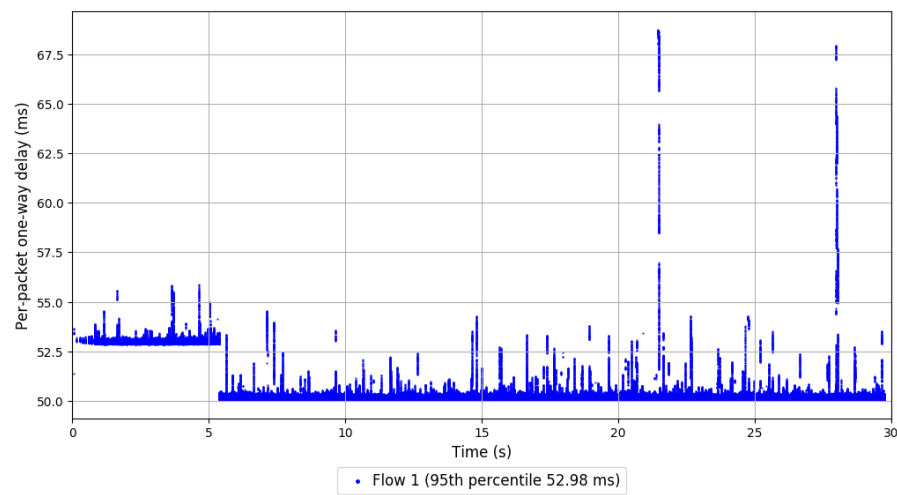
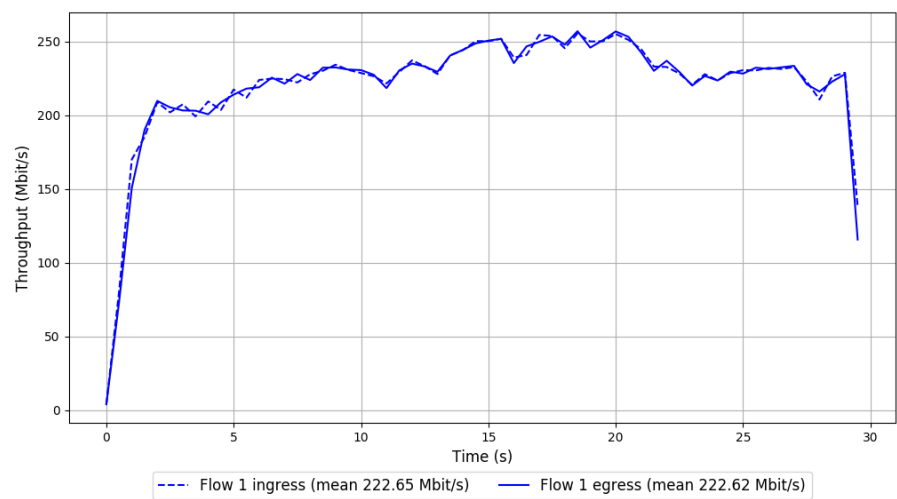
-- Flow 1:

Average throughput: 222.62 Mbit/s

95th percentile per-packet one-way delay: 52.985 ms

Loss rate: 0.35%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-03-27 04:14:28

End at: 2018-03-27 04:14:58

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.63 Mbit/s

95th percentile per-packet one-way delay: 53.110 ms

Loss rate: 0.35%

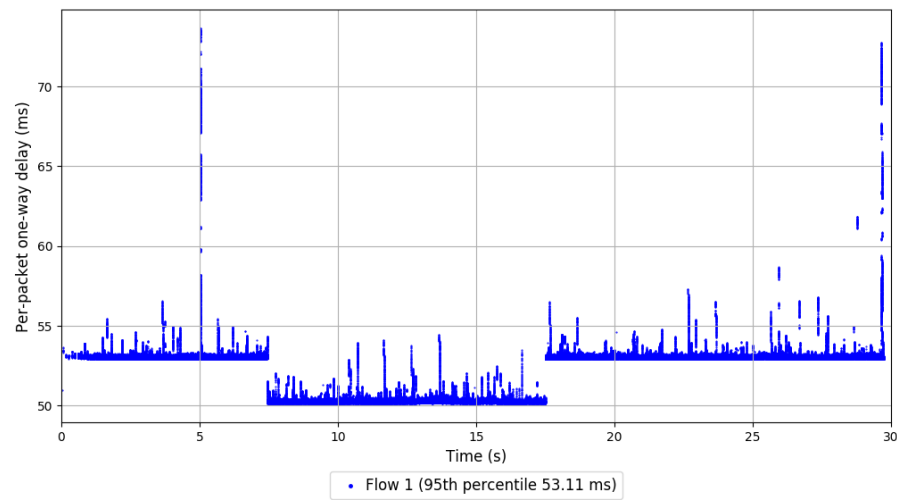
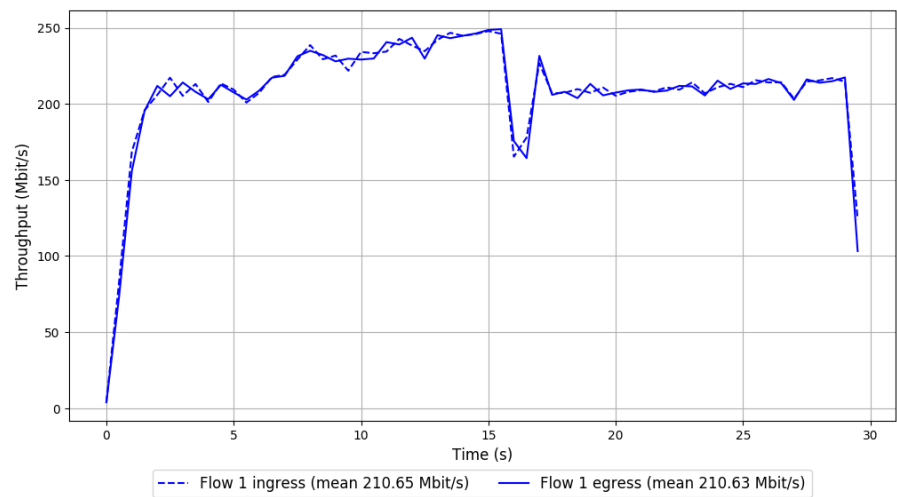
-- Flow 1:

Average throughput: 210.63 Mbit/s

95th percentile per-packet one-way delay: 53.110 ms

Loss rate: 0.35%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-03-27 04:28:43

End at: 2018-03-27 04:29:13

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.00 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 0.37%

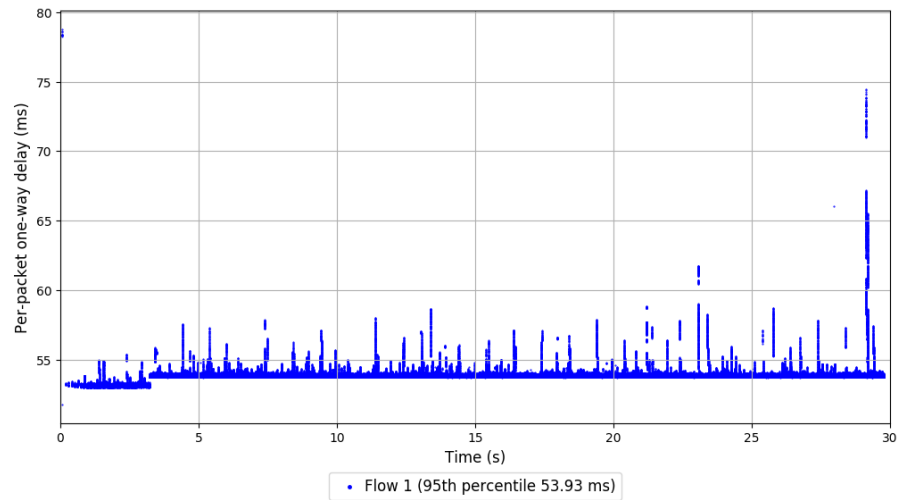
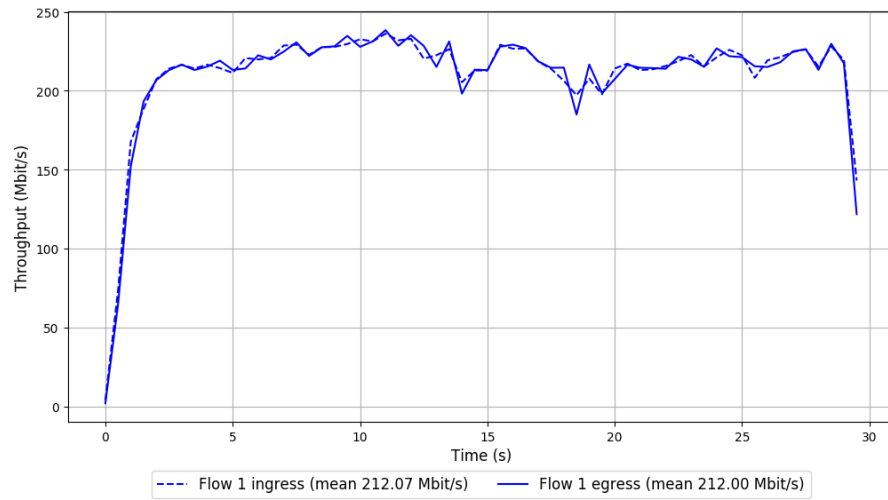
-- Flow 1:

Average throughput: 212.00 Mbit/s

95th percentile per-packet one-way delay: 53.931 ms

Loss rate: 0.37%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-03-27 04:43:04

End at: 2018-03-27 04:43:34

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.52 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.34%

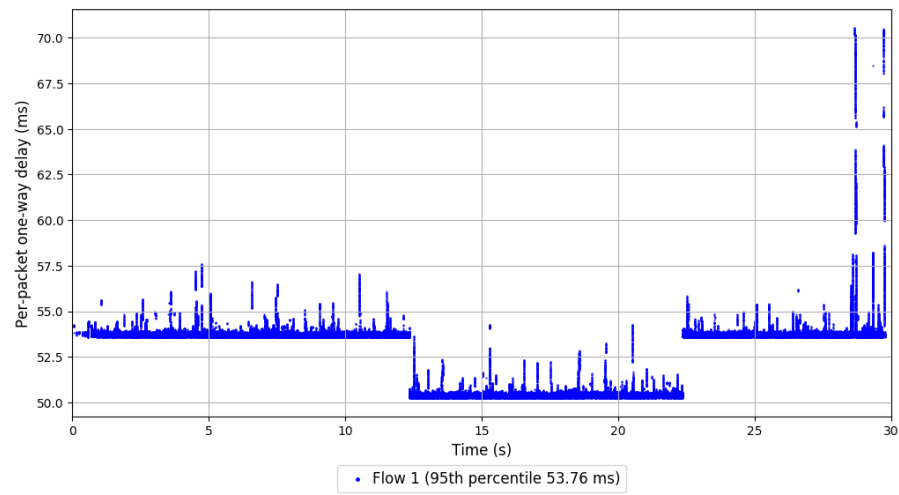
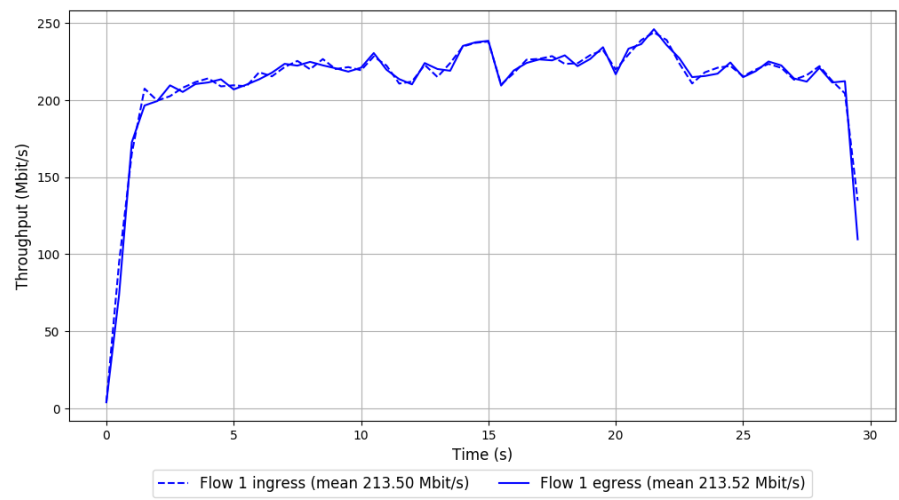
-- Flow 1:

Average throughput: 213.52 Mbit/s

95th percentile per-packet one-way delay: 53.760 ms

Loss rate: 0.34%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-03-27 04:57:12

End at: 2018-03-27 04:57:42

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.02 Mbit/s

95th percentile per-packet one-way delay: 53.596 ms

Loss rate: 0.38%

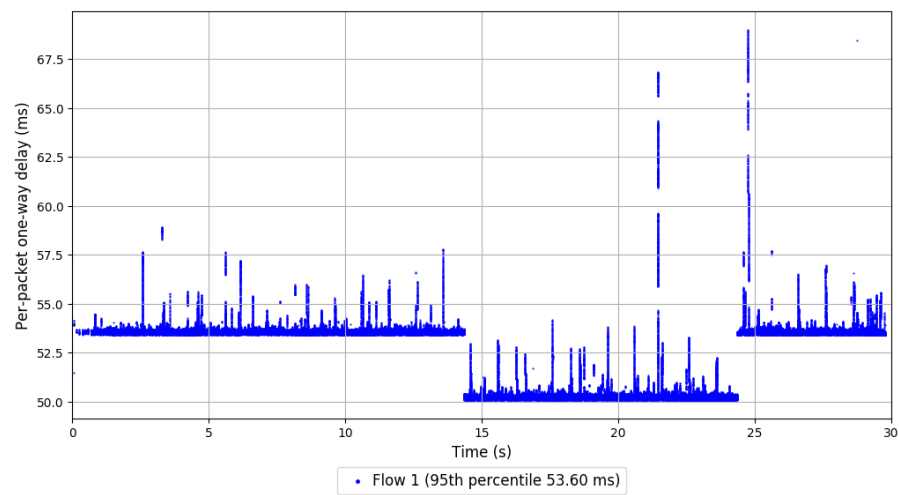
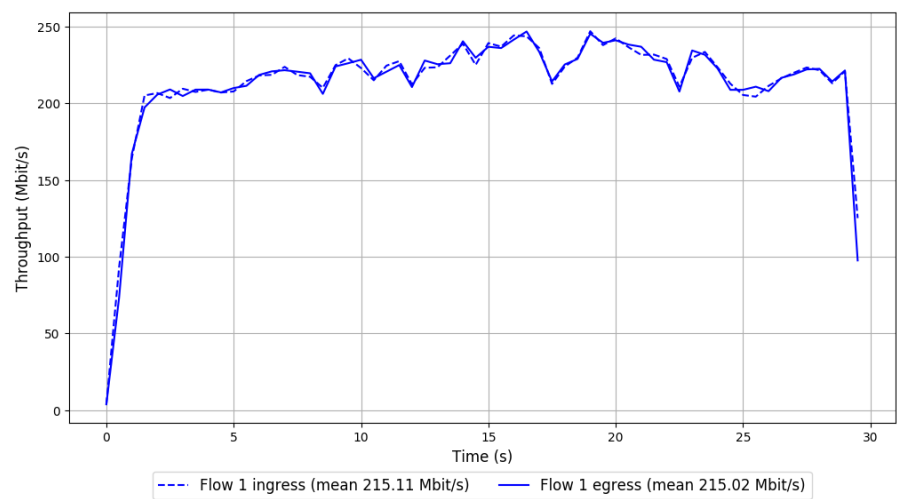
-- Flow 1:

Average throughput: 215.02 Mbit/s

95th percentile per-packet one-way delay: 53.596 ms

Loss rate: 0.38%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-03-27 05:11:24

End at: 2018-03-27 05:11:54

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.12 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.38%

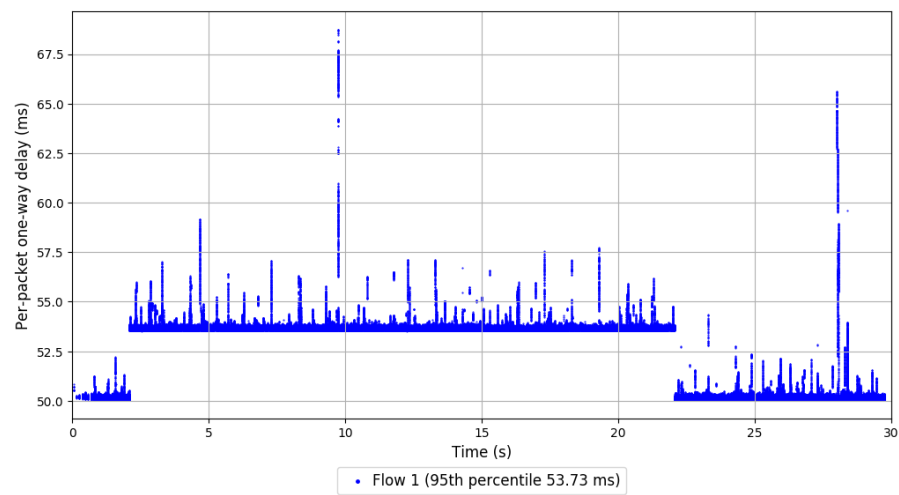
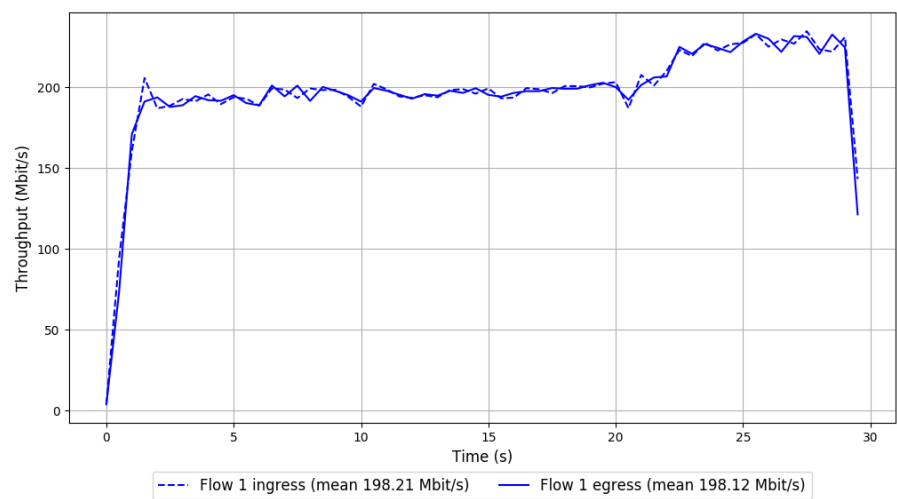
-- Flow 1:

Average throughput: 198.12 Mbit/s

95th percentile per-packet one-way delay: 53.730 ms

Loss rate: 0.38%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-03-27 05:25:49

End at: 2018-03-27 05:26:19

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.01 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.32%

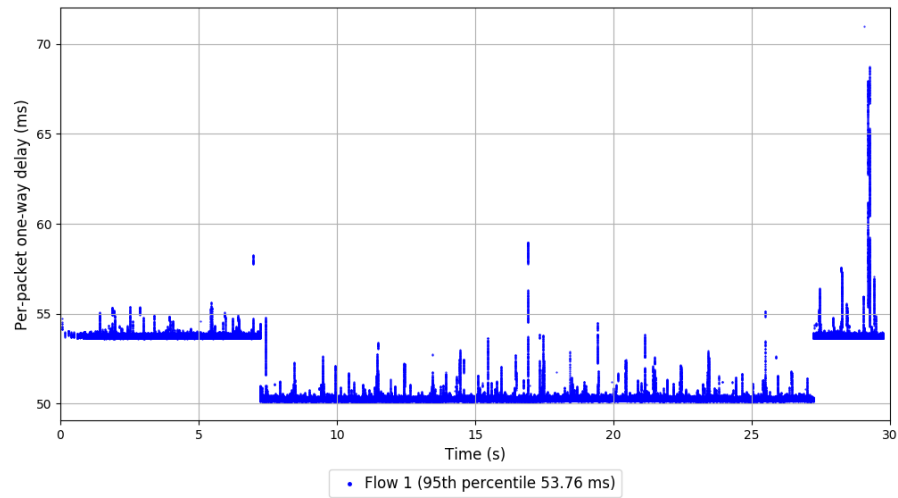
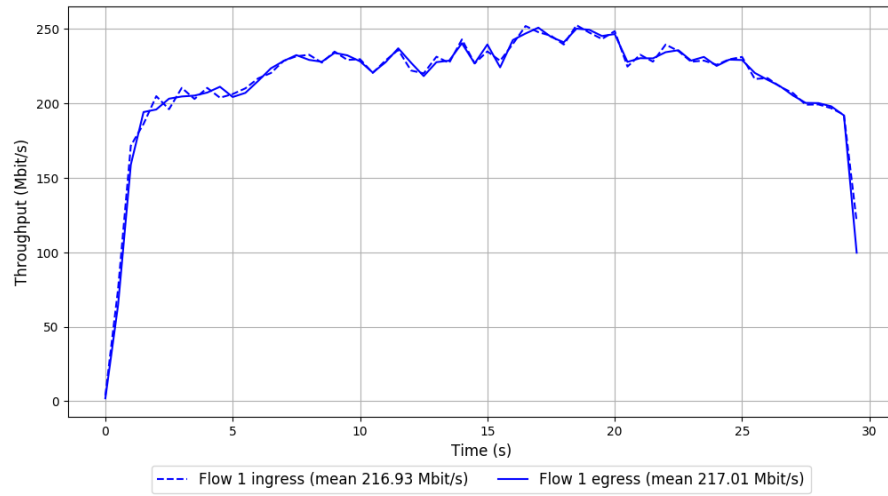
-- Flow 1:

Average throughput: 217.01 Mbit/s

95th percentile per-packet one-way delay: 53.764 ms

Loss rate: 0.32%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-03-27 05:40:08

End at: 2018-03-27 05:40:38

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.52 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.37%

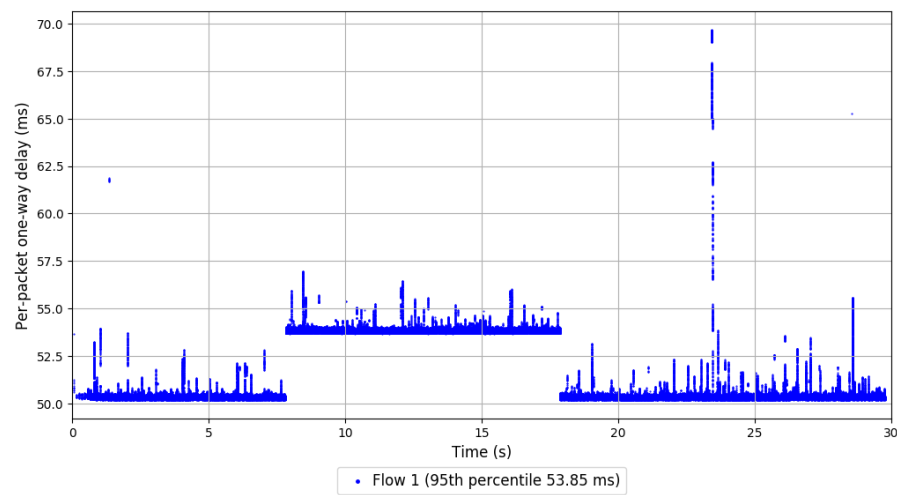
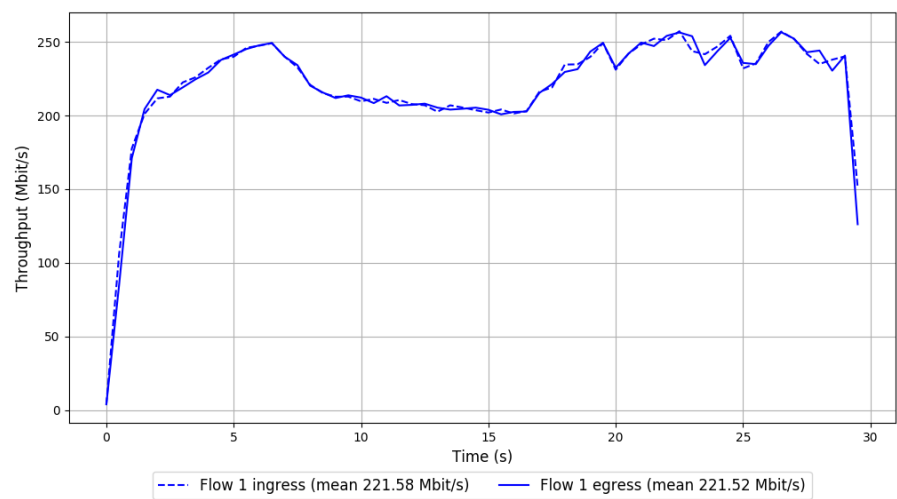
-- Flow 1:

Average throughput: 221.52 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.37%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-03-27 03:31:01

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

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.77 Mbit/s

95th percentile per-packet one-way delay: 79.521 ms

Loss rate: 0.43%

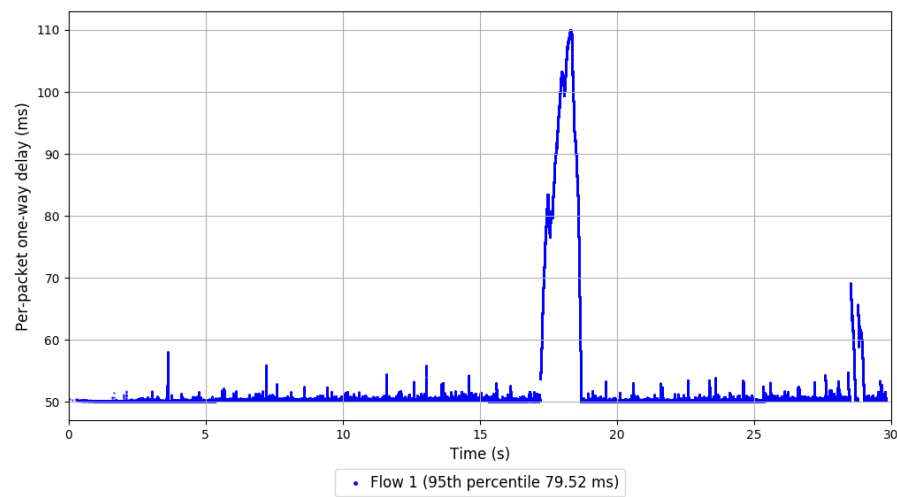
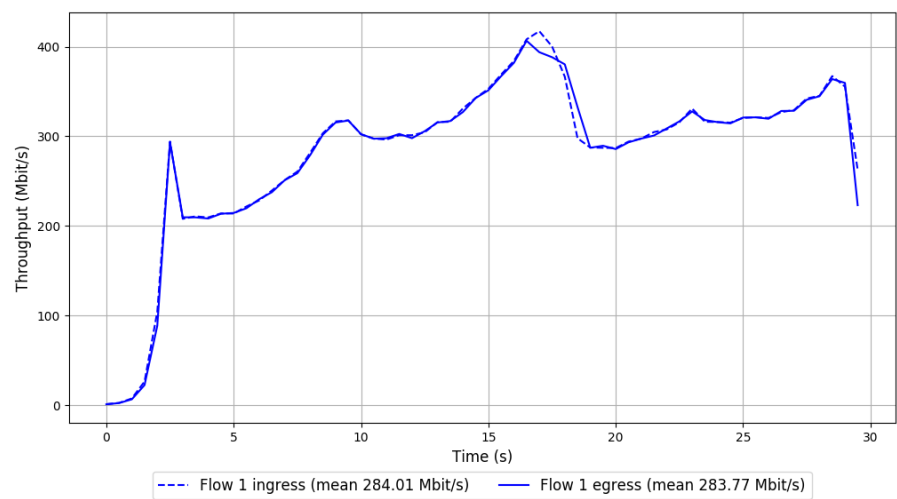
-- Flow 1:

Average throughput: 283.77 Mbit/s

95th percentile per-packet one-way delay: 79.521 ms

Loss rate: 0.43%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

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

End at: 2018-03-27 03:45:37

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.80 Mbit/s

95th percentile per-packet one-way delay: 58.383 ms

Loss rate: 0.44%

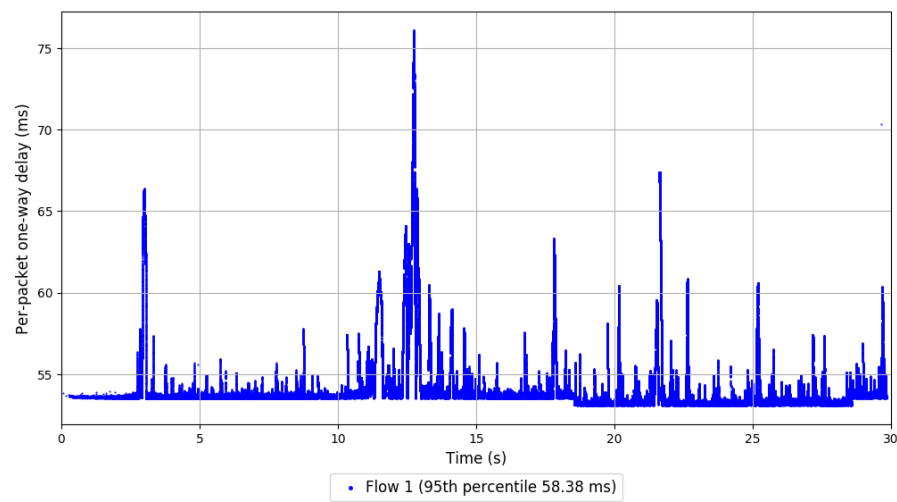
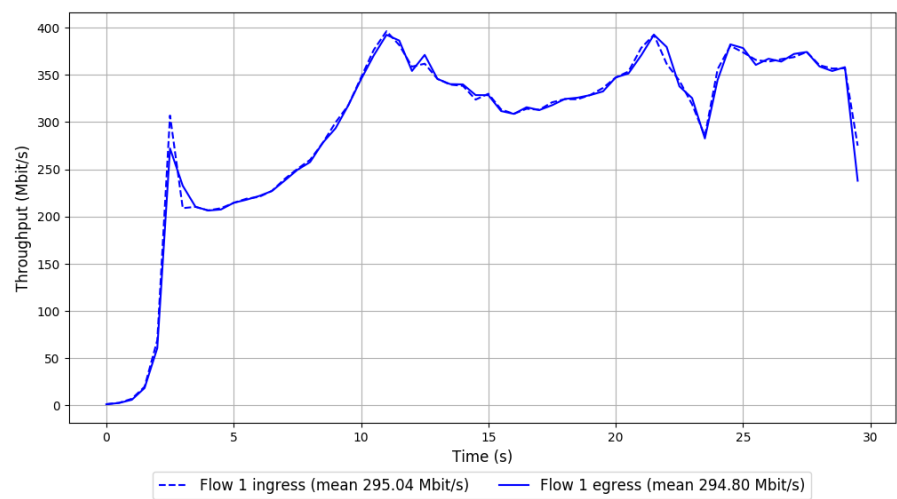
-- Flow 1:

Average throughput: 294.80 Mbit/s

95th percentile per-packet one-way delay: 58.383 ms

Loss rate: 0.44%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-03-27 03:59:16

End at: 2018-03-27 03:59:46

Below is generated by plot.py at 2018-03-27 09:49:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.37 Mbit/s

95th percentile per-packet one-way delay: 119.960 ms

Loss rate: 0.32%

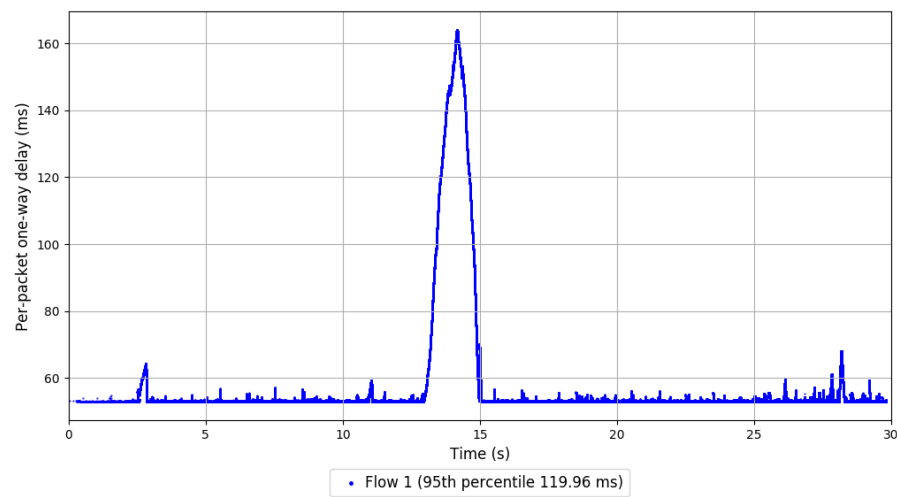
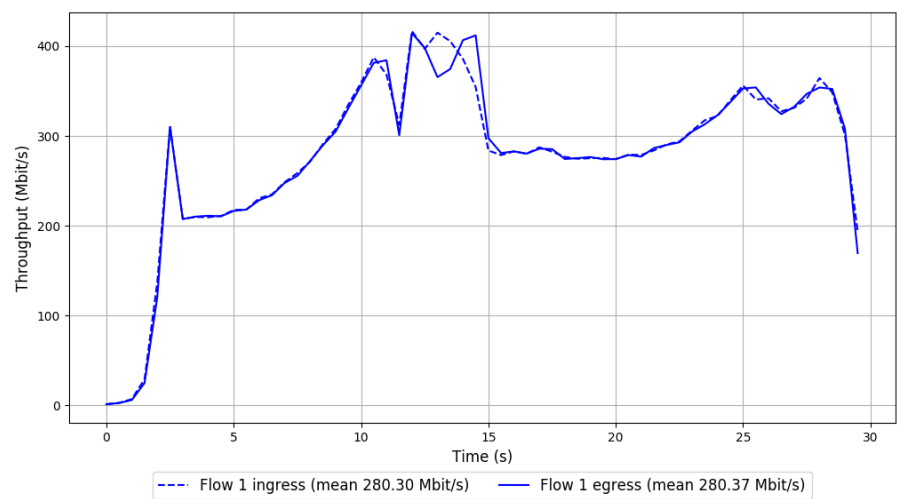
-- Flow 1:

Average throughput: 280.37 Mbit/s

95th percentile per-packet one-way delay: 119.960 ms

Loss rate: 0.32%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-03-27 04:13:32

End at: 2018-03-27 04:14:02

Below is generated by plot.py at 2018-03-27 09:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 306.71 Mbit/s

95th percentile per-packet one-way delay: 57.936 ms

Loss rate: 0.41%

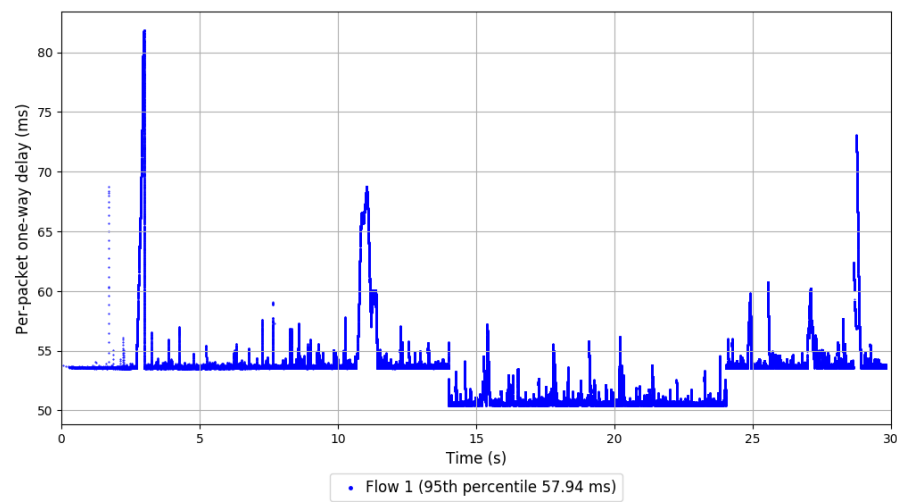
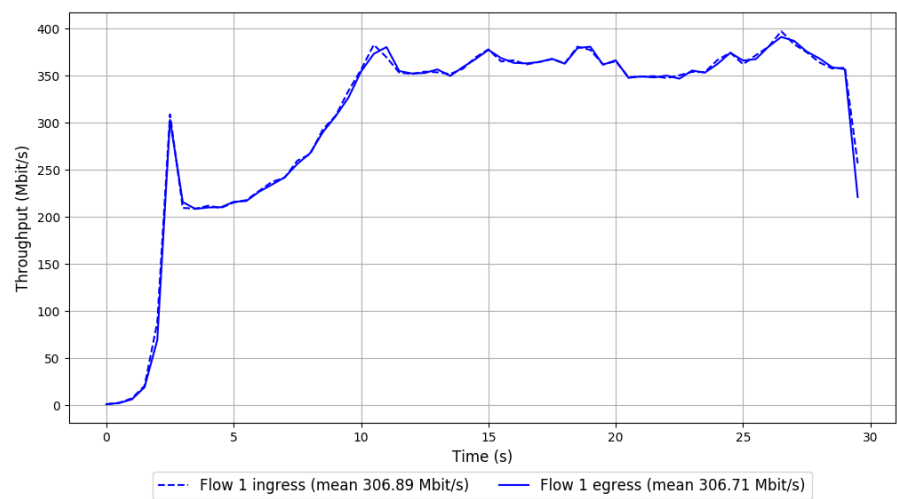
-- Flow 1:

Average throughput: 306.71 Mbit/s

95th percentile per-packet one-way delay: 57.936 ms

Loss rate: 0.41%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-03-27 04:27:49

End at: 2018-03-27 04:28:19

Below is generated by plot.py at 2018-03-27 09:50:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.78 Mbit/s

95th percentile per-packet one-way delay: 59.465 ms

Loss rate: 0.50%

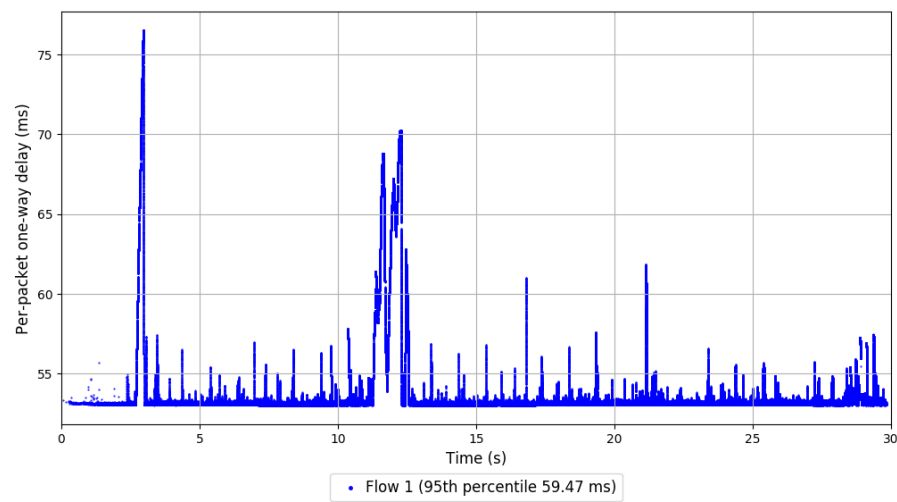
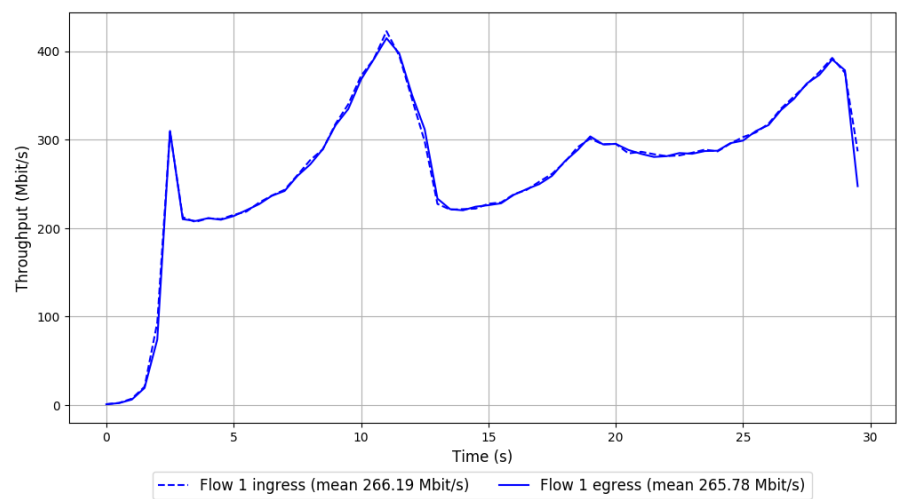
-- Flow 1:

Average throughput: 265.78 Mbit/s

95th percentile per-packet one-way delay: 59.465 ms

Loss rate: 0.50%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-03-27 04:42:07

End at: 2018-03-27 04:42:37

Below is generated by plot.py at 2018-03-27 09:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.93 Mbit/s

95th percentile per-packet one-way delay: 57.552 ms

Loss rate: 0.42%

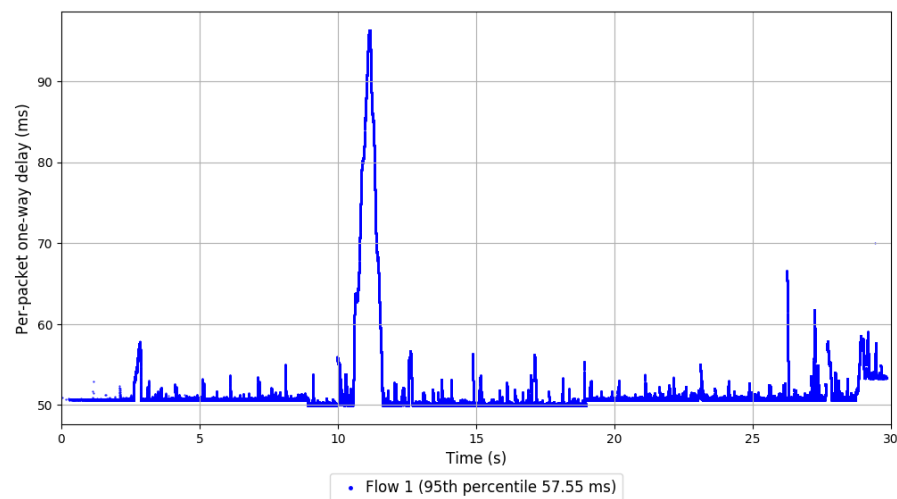
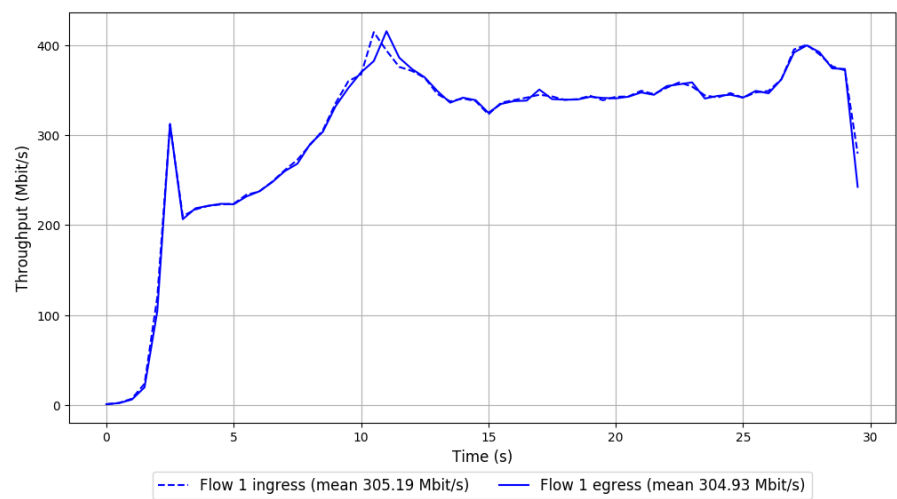
-- Flow 1:

Average throughput: 304.93 Mbit/s

95th percentile per-packet one-way delay: 57.552 ms

Loss rate: 0.42%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-03-27 04:56:15

End at: 2018-03-27 04:56:45

Below is generated by plot.py at 2018-03-27 09:54:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.79 Mbit/s

95th percentile per-packet one-way delay: 62.330 ms

Loss rate: 0.41%

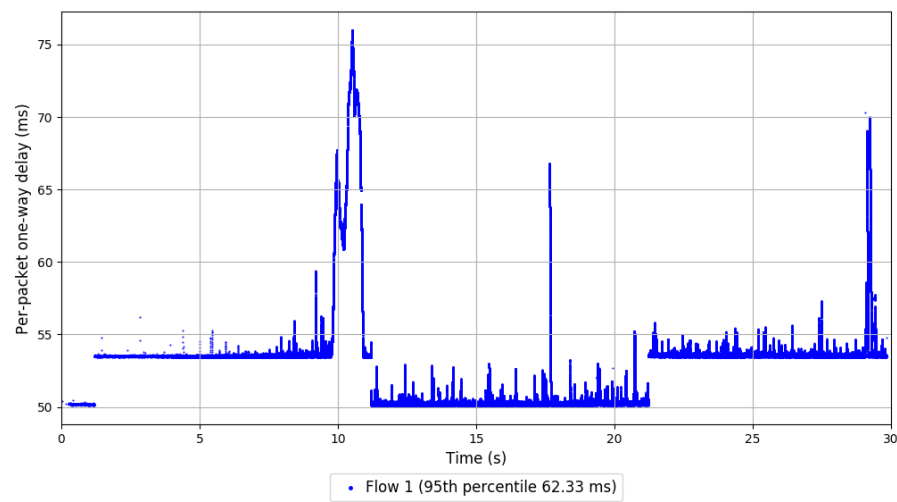
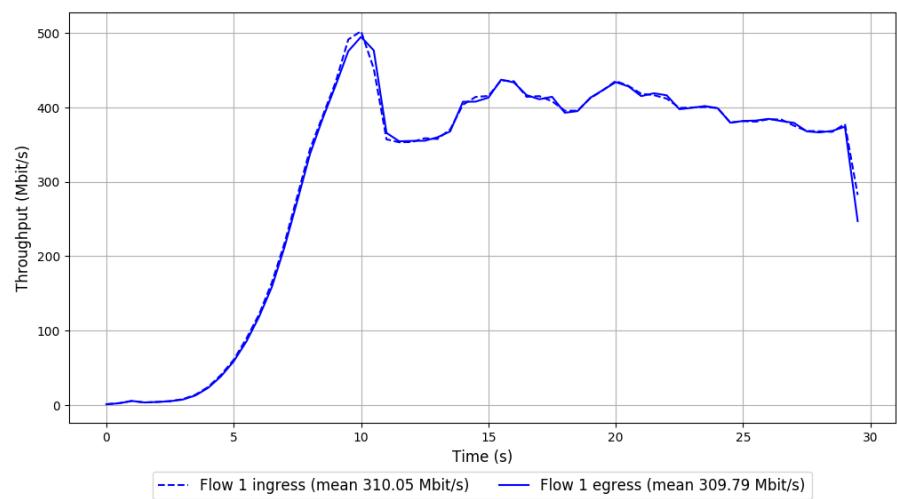
-- Flow 1:

Average throughput: 309.79 Mbit/s

95th percentile per-packet one-way delay: 62.330 ms

Loss rate: 0.41%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-03-27 05:10:26

End at: 2018-03-27 05:10:56

Below is generated by plot.py at 2018-03-27 09:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.66 Mbit/s

95th percentile per-packet one-way delay: 92.095 ms

Loss rate: 0.33%

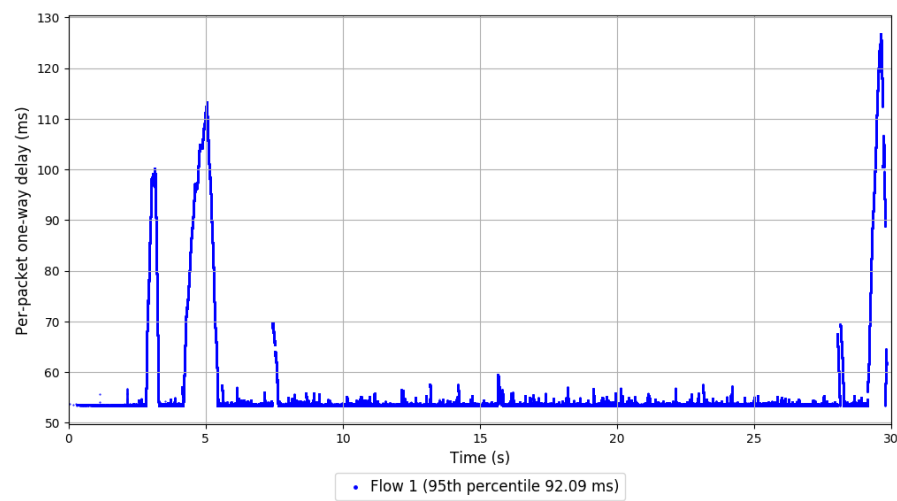
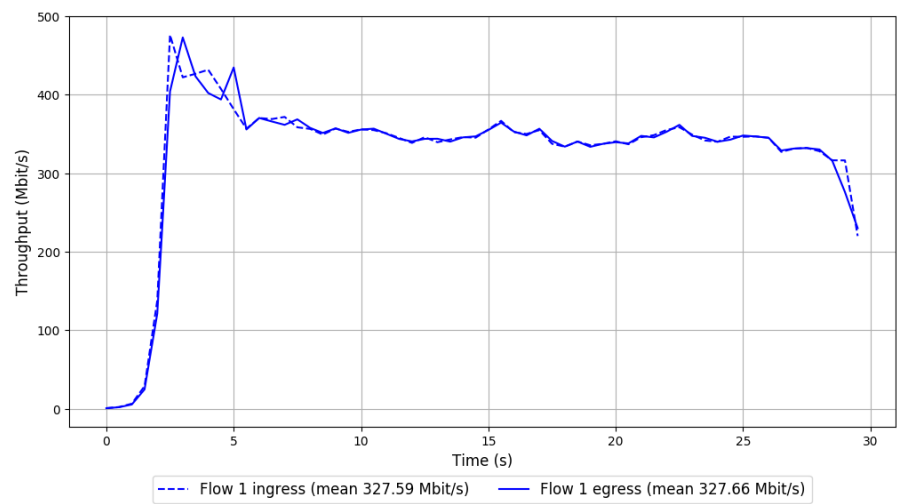
-- Flow 1:

Average throughput: 327.66 Mbit/s

95th percentile per-packet one-way delay: 92.095 ms

Loss rate: 0.33%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-03-27 05:24:53

End at: 2018-03-27 05:25:23

Below is generated by plot.py at 2018-03-27 09:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.97 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.38%

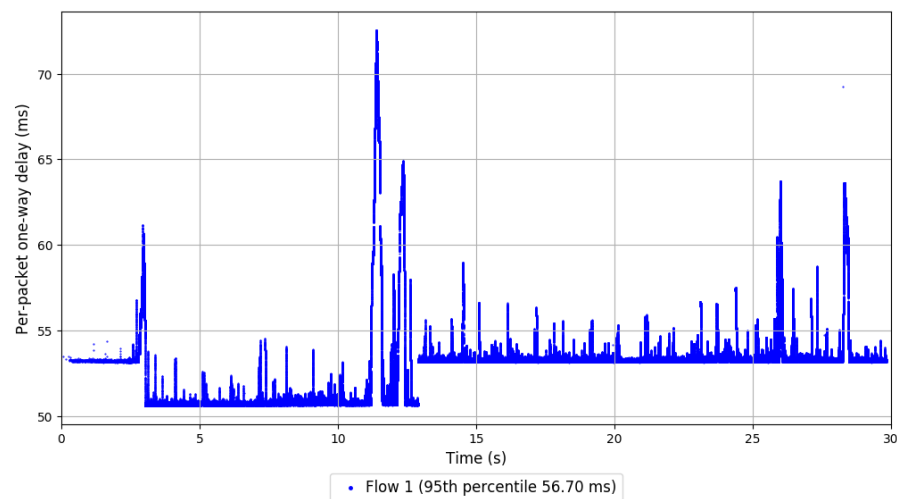
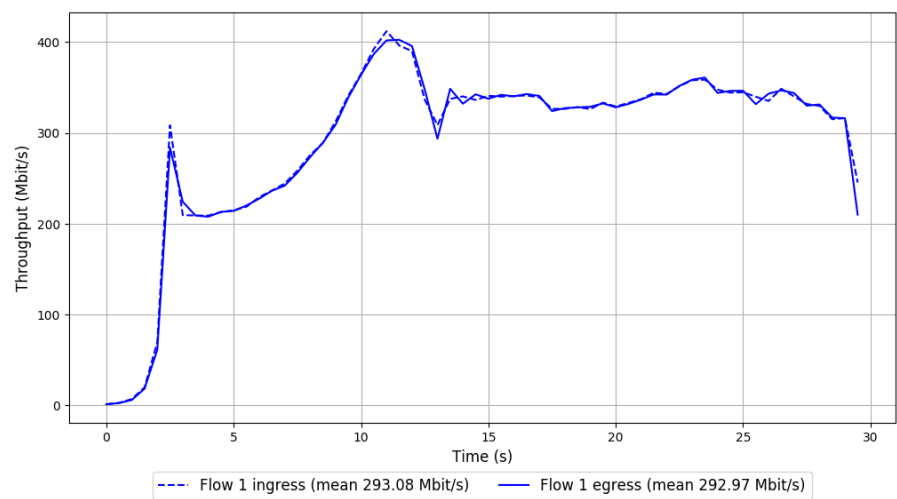
-- Flow 1:

Average throughput: 292.97 Mbit/s

95th percentile per-packet one-way delay: 56.697 ms

Loss rate: 0.38%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-03-27 05:39:12

End at: 2018-03-27 05:39:42

Below is generated by plot.py at 2018-03-27 09:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.65 Mbit/s

95th percentile per-packet one-way delay: 61.022 ms

Loss rate: 0.31%

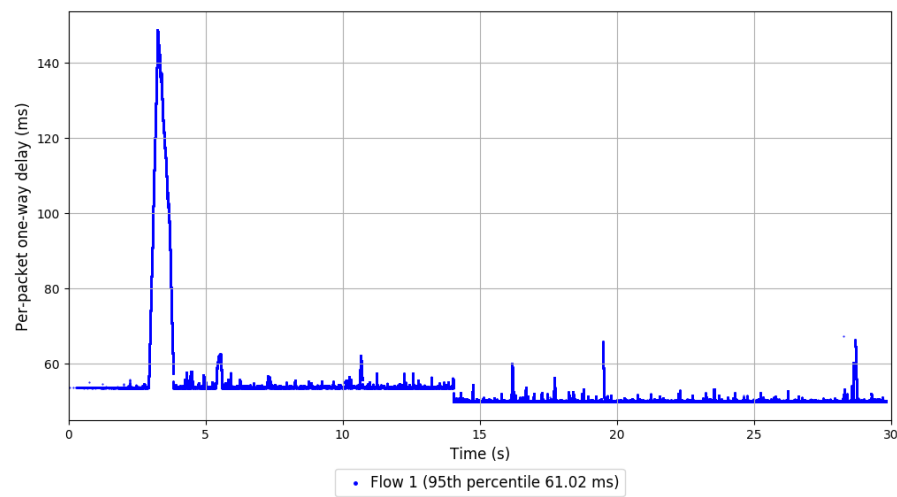
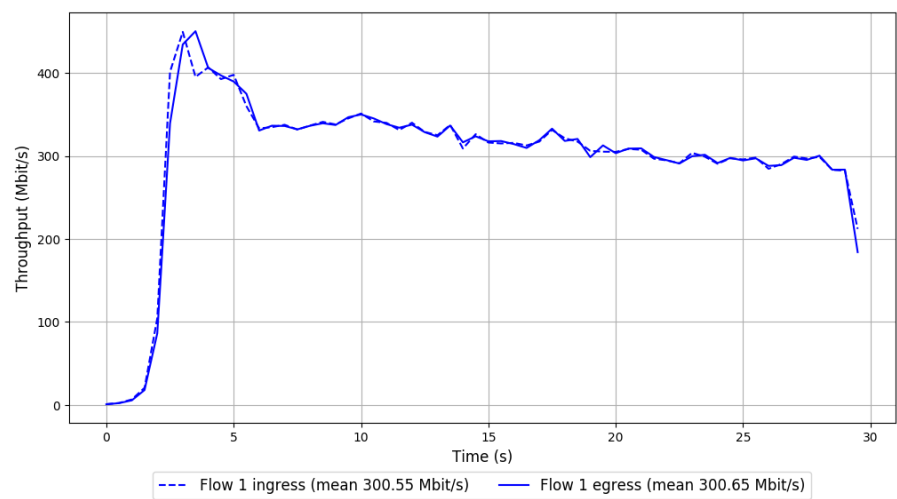
-- Flow 1:

Average throughput: 300.65 Mbit/s

95th percentile per-packet one-way delay: 61.022 ms

Loss rate: 0.31%

Run 10: Report of Vivace-latency — Data Link

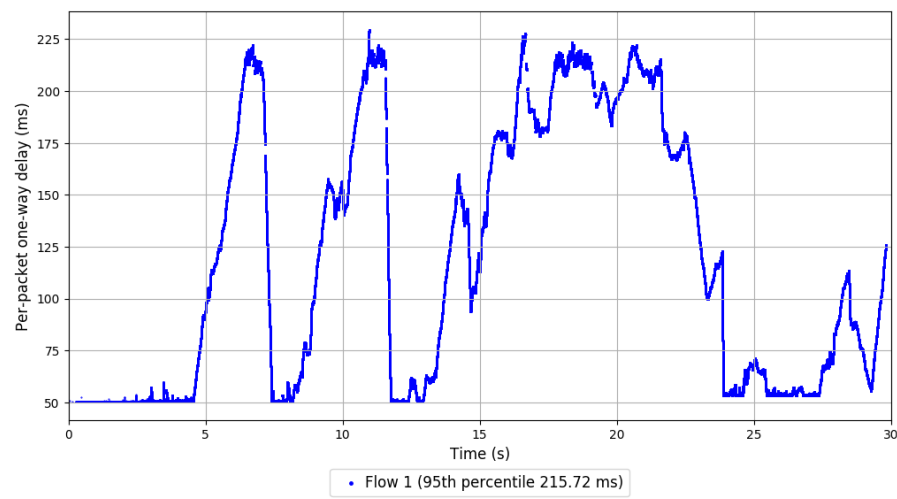
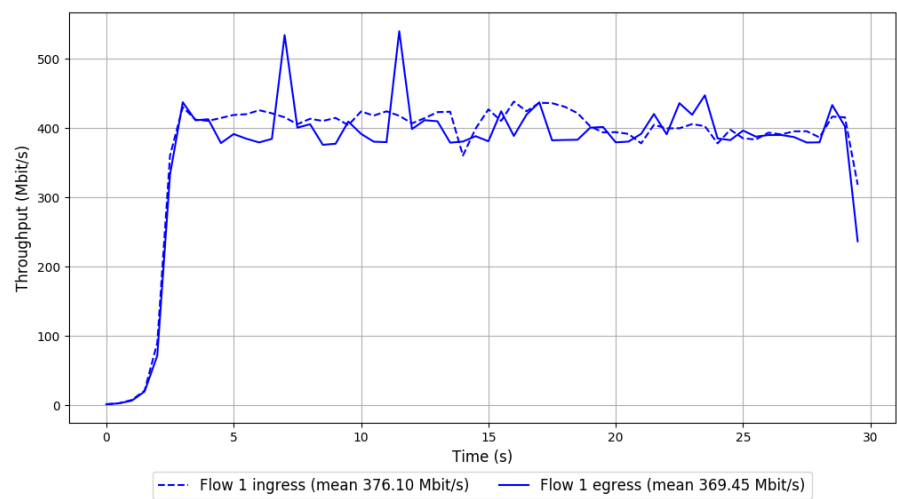


```
Run 1: Statistics of Vivace-loss

Start at: 2018-03-27 03:32:47
End at: 2018-03-27 03:33:17

# Below is generated by plot.py at 2018-03-27 09:57:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 215.725 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 369.45 Mbit/s
95th percentile per-packet one-way delay: 215.725 ms
Loss rate: 2.11%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-03-27 03:46:53

End at: 2018-03-27 03:47:24

Below is generated by plot.py at 2018-03-27 09:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.00 Mbit/s

95th percentile per-packet one-way delay: 215.572 ms

Loss rate: 1.69%

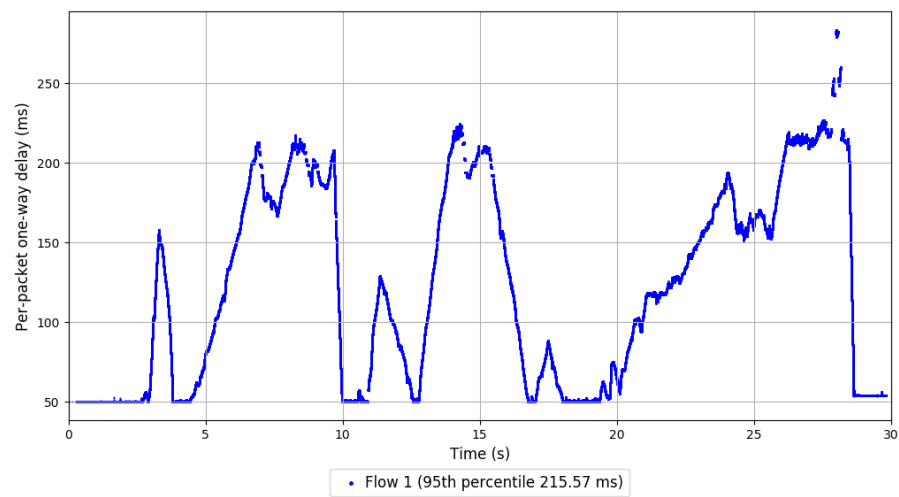
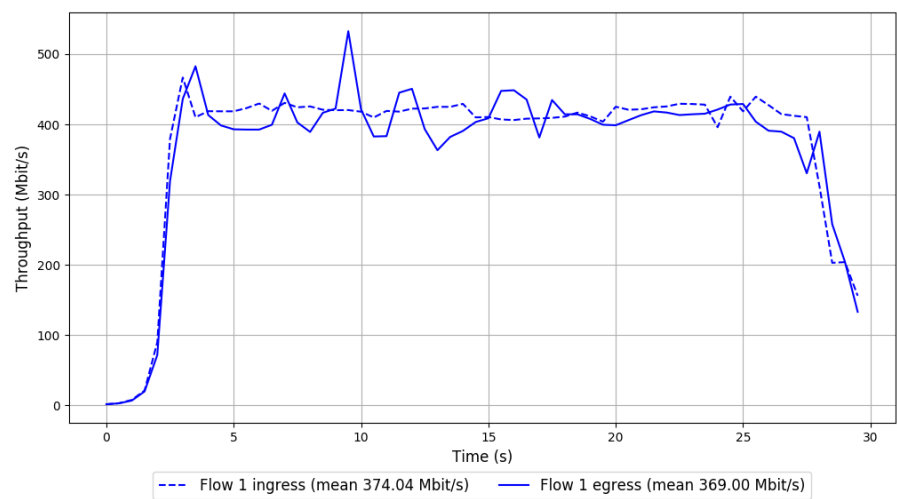
-- Flow 1:

Average throughput: 369.00 Mbit/s

95th percentile per-packet one-way delay: 215.572 ms

Loss rate: 1.69%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-03-27 04:01:01

End at: 2018-03-27 04:01:31

Below is generated by plot.py at 2018-03-27 09:58:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.88 Mbit/s

95th percentile per-packet one-way delay: 196.844 ms

Loss rate: 0.73%

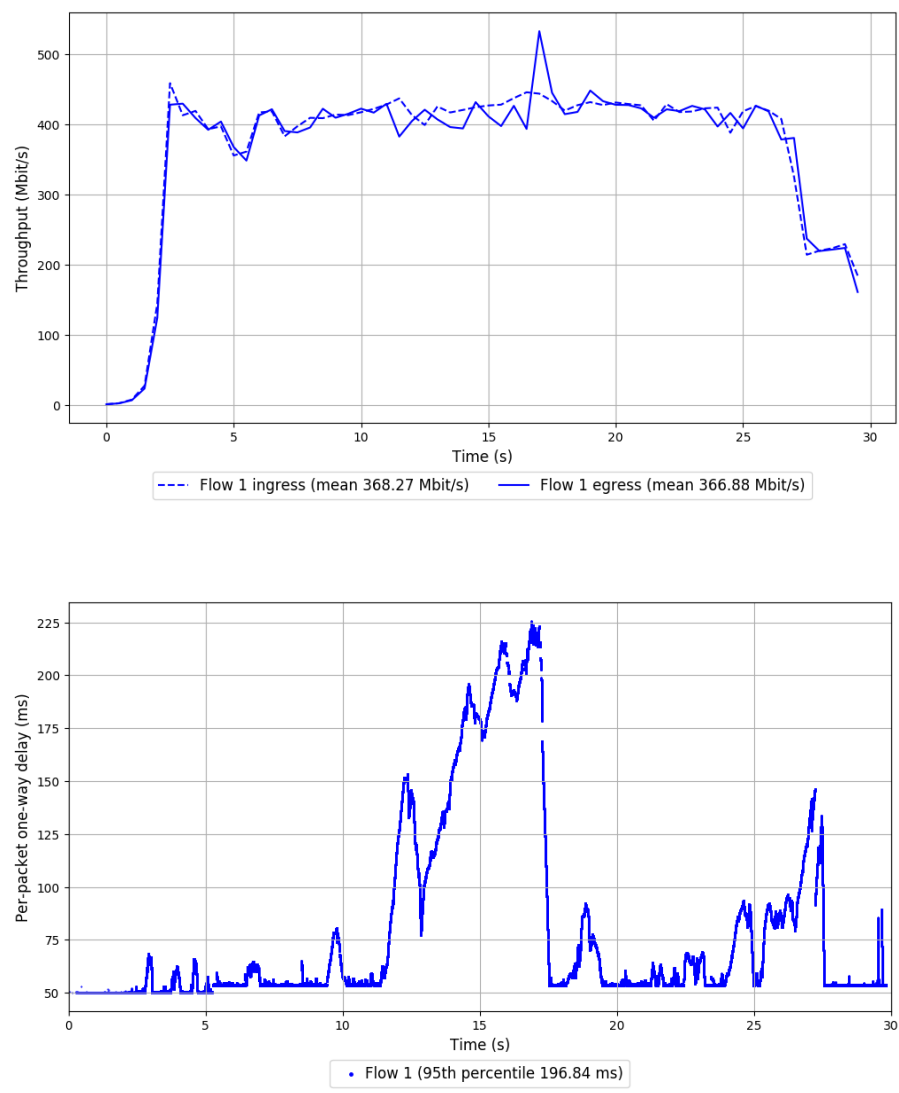
-- Flow 1:

Average throughput: 366.88 Mbit/s

95th percentile per-packet one-way delay: 196.844 ms

Loss rate: 0.73%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-03-27 04:15:18

End at: 2018-03-27 04:15:48

Below is generated by plot.py at 2018-03-27 09:59:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.53 Mbit/s

95th percentile per-packet one-way delay: 224.662 ms

Loss rate: 5.23%

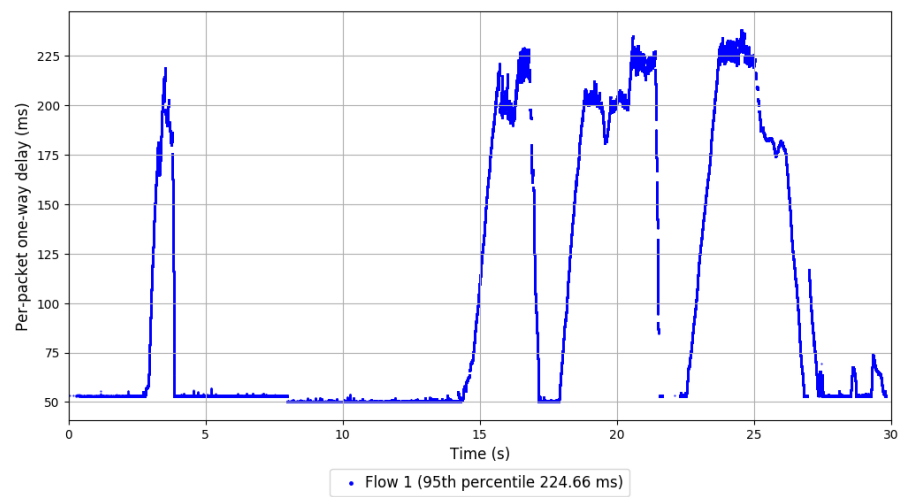
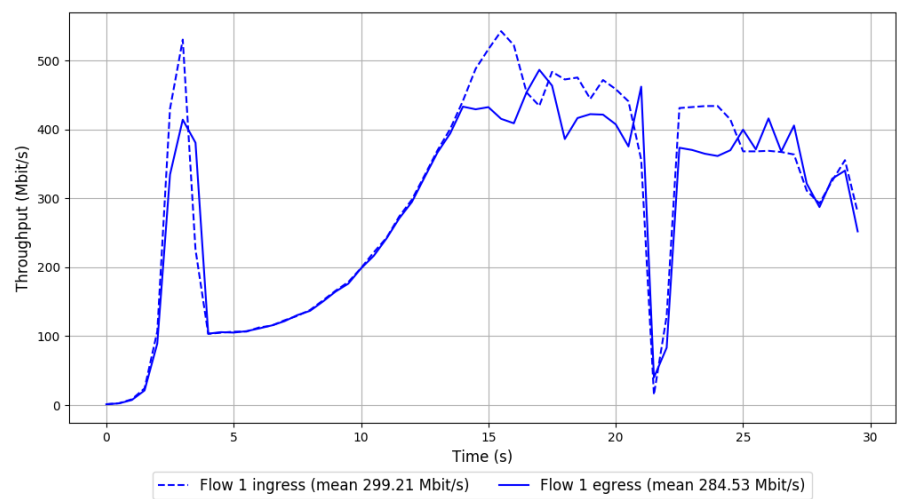
-- Flow 1:

Average throughput: 284.53 Mbit/s

95th percentile per-packet one-way delay: 224.662 ms

Loss rate: 5.23%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-03-27 04:29:32

End at: 2018-03-27 04:30:02

Below is generated by plot.py at 2018-03-27 10:02:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.07 Mbit/s

95th percentile per-packet one-way delay: 222.391 ms

Loss rate: 3.92%

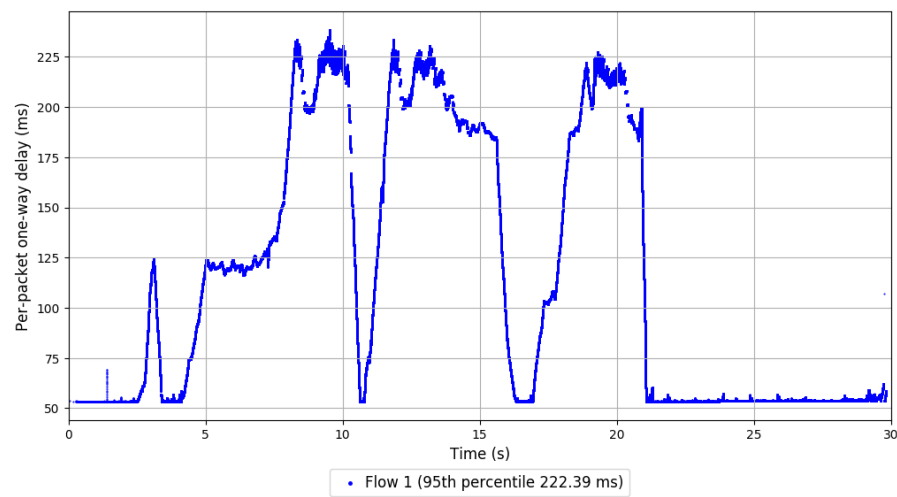
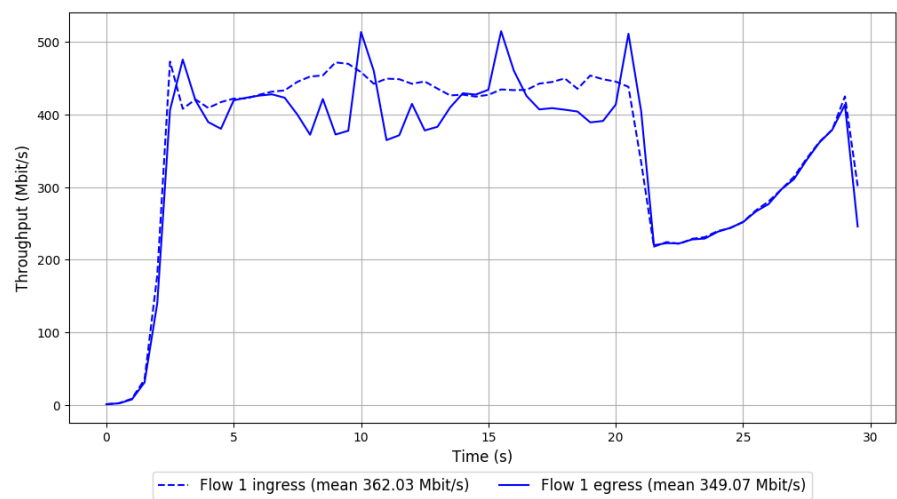
-- Flow 1:

Average throughput: 349.07 Mbit/s

95th percentile per-packet one-way delay: 222.391 ms

Loss rate: 3.92%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-03-27 04:43:53

End at: 2018-03-27 04:44:23

Below is generated by plot.py at 2018-03-27 10:02:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.84 Mbit/s

95th percentile per-packet one-way delay: 213.881 ms

Loss rate: 2.55%

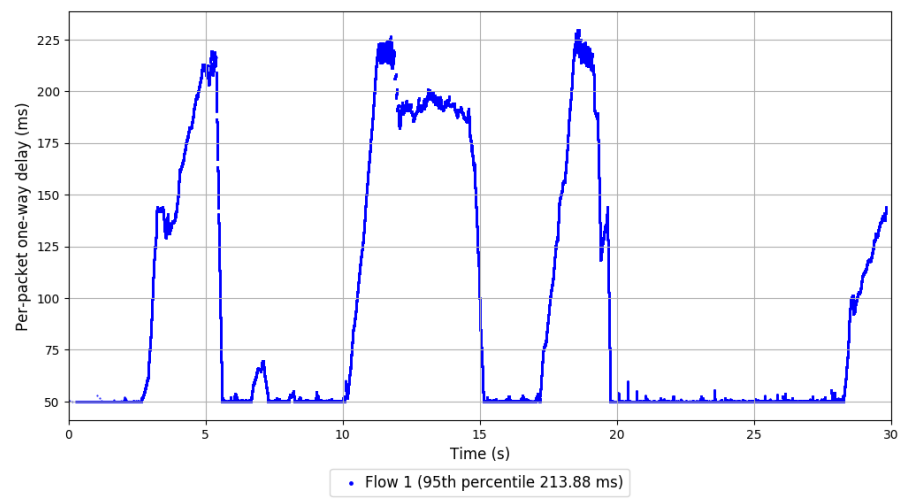
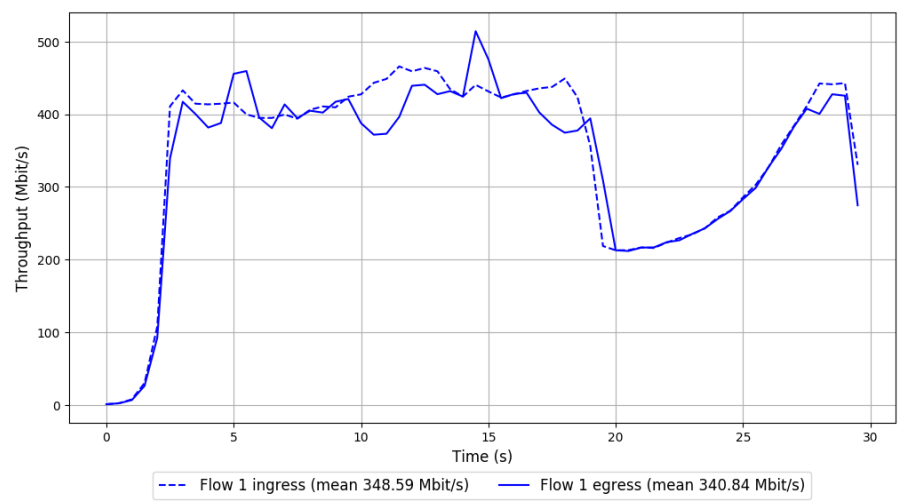
-- Flow 1:

Average throughput: 340.84 Mbit/s

95th percentile per-packet one-way delay: 213.881 ms

Loss rate: 2.55%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-03-27 04:58:01

End at: 2018-03-27 04:58:31

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.99 Mbit/s

95th percentile per-packet one-way delay: 197.937 ms

Loss rate: 2.30%

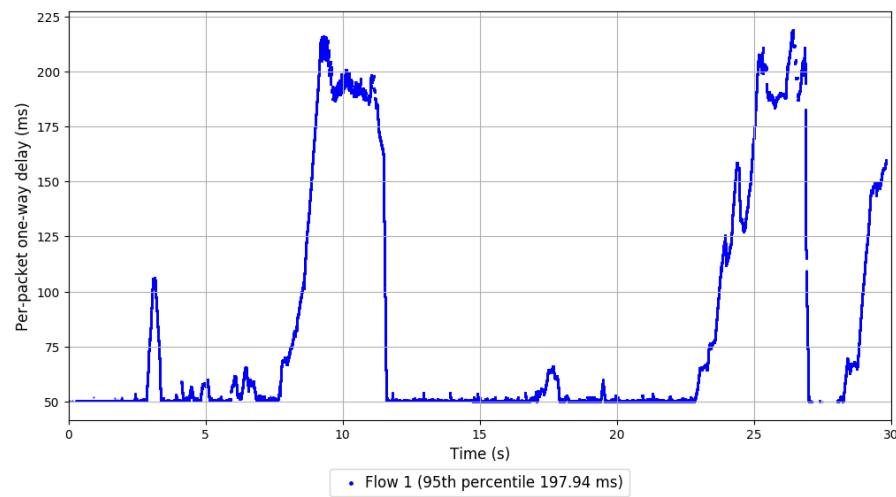
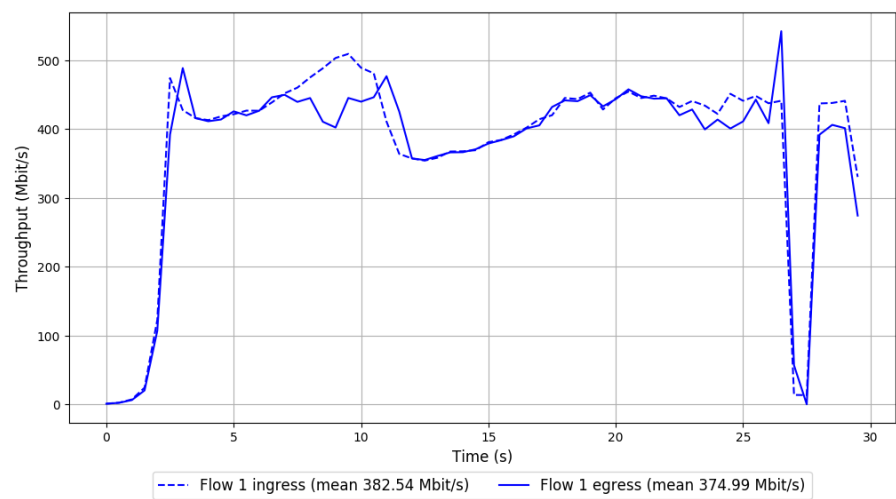
-- Flow 1:

Average throughput: 374.99 Mbit/s

95th percentile per-packet one-way delay: 197.937 ms

Loss rate: 2.30%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-03-27 05:12:13

End at: 2018-03-27 05:12:43

Below is generated by plot.py at 2018-03-27 10:04:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.73 Mbit/s

95th percentile per-packet one-way delay: 216.175 ms

Loss rate: 3.03%

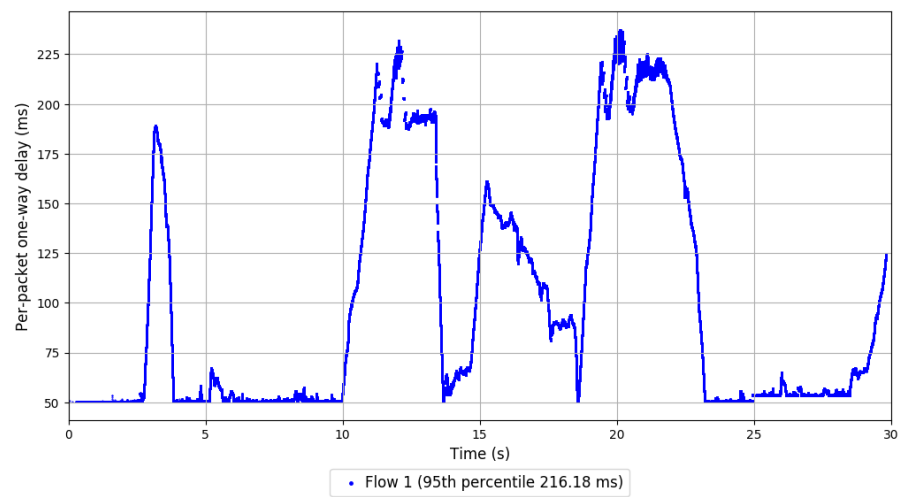
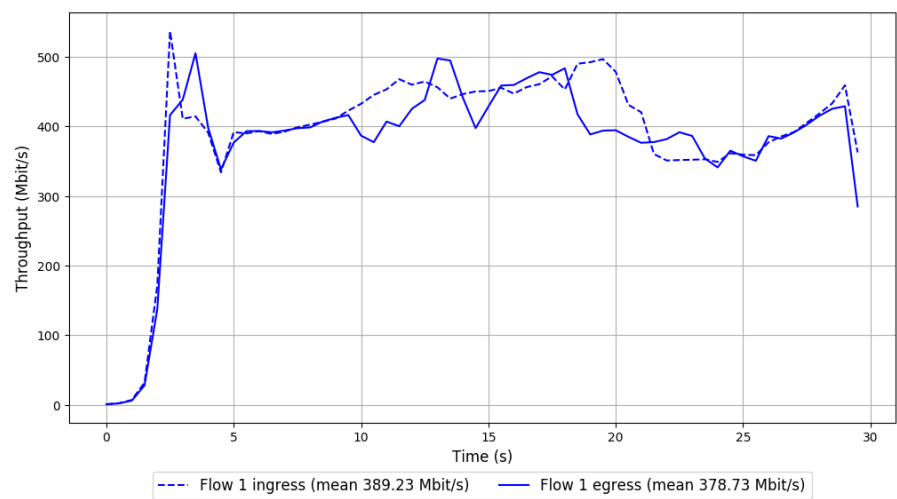
-- Flow 1:

Average throughput: 378.73 Mbit/s

95th percentile per-packet one-way delay: 216.175 ms

Loss rate: 3.03%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-03-27 05:26:38

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

Below is generated by plot.py at 2018-03-27 10:05:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.60 Mbit/s

95th percentile per-packet one-way delay: 220.597 ms

Loss rate: 4.02%

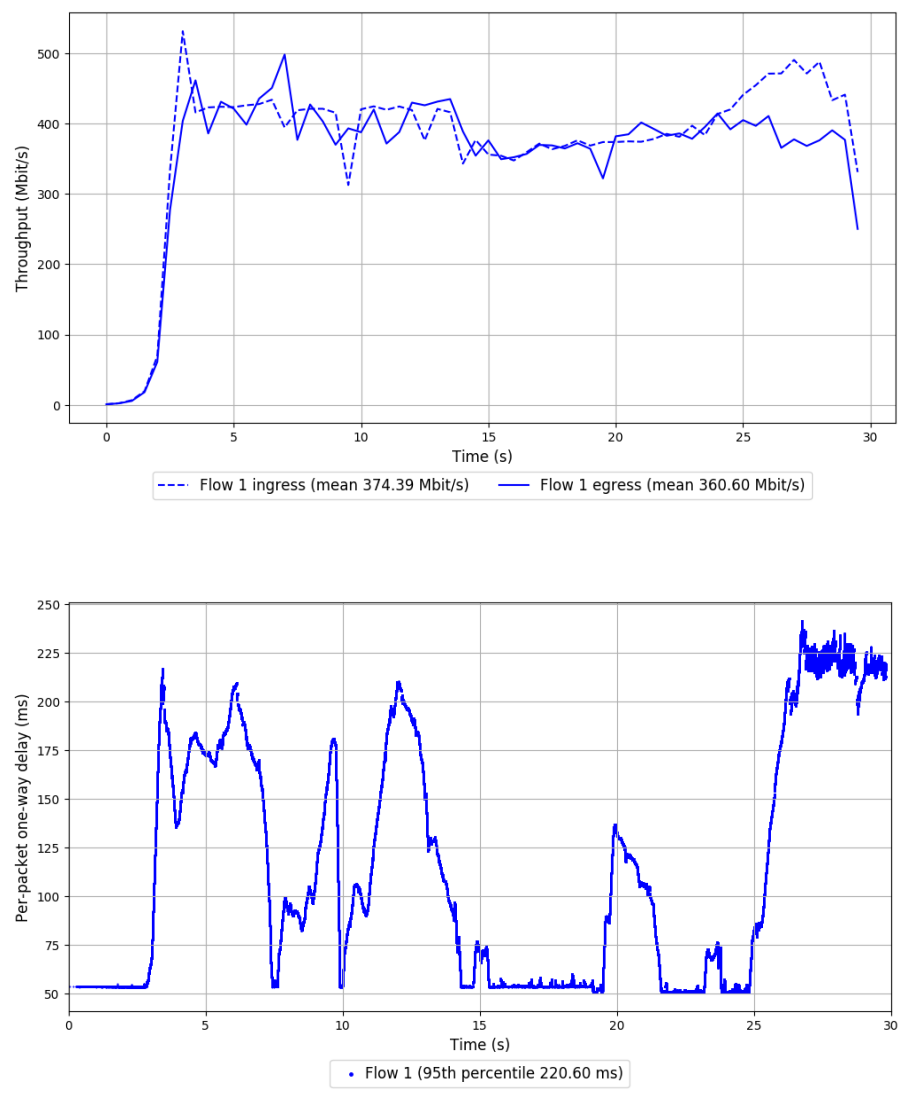
-- Flow 1:

Average throughput: 360.60 Mbit/s

95th percentile per-packet one-way delay: 220.597 ms

Loss rate: 4.02%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-03-27 05:40:58

End at: 2018-03-27 05:41:28

Below is generated by plot.py at 2018-03-27 10:06:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.73 Mbit/s

95th percentile per-packet one-way delay: 214.913 ms

Loss rate: 2.57%

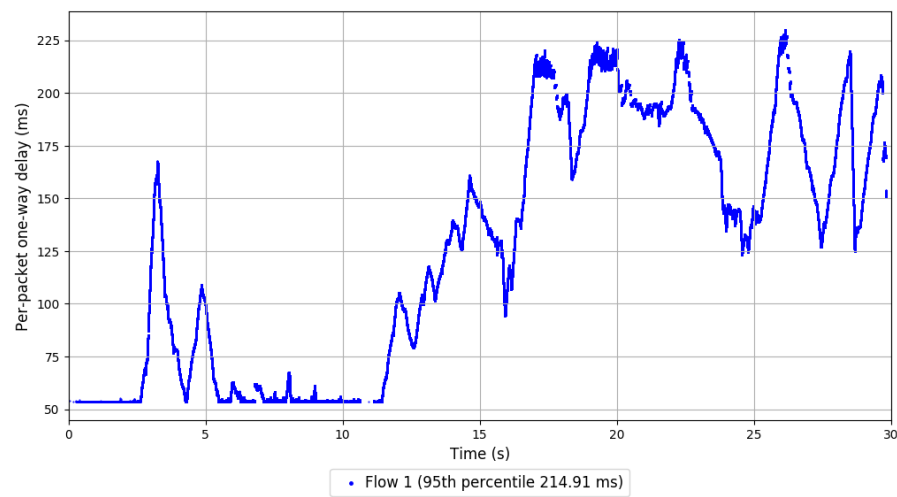
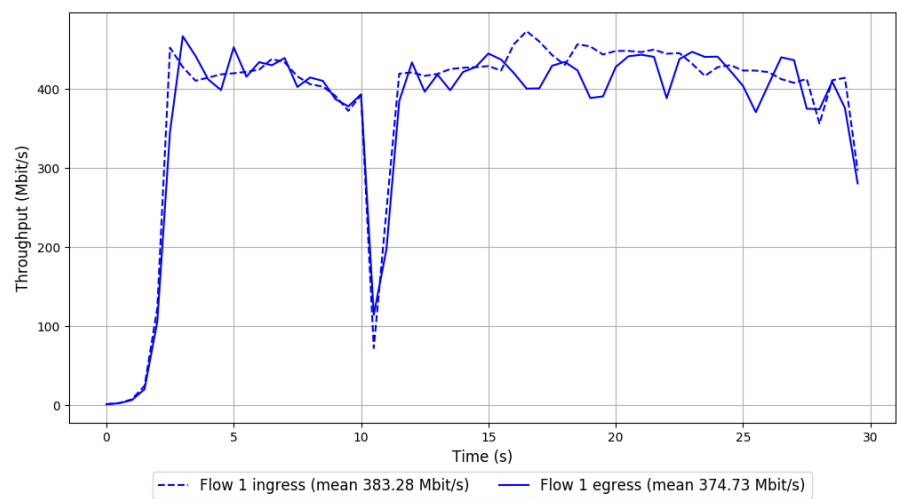
-- Flow 1:

Average throughput: 374.73 Mbit/s

95th percentile per-packet one-way delay: 214.913 ms

Loss rate: 2.57%

Run 10: Report of Vivace-loss — Data Link

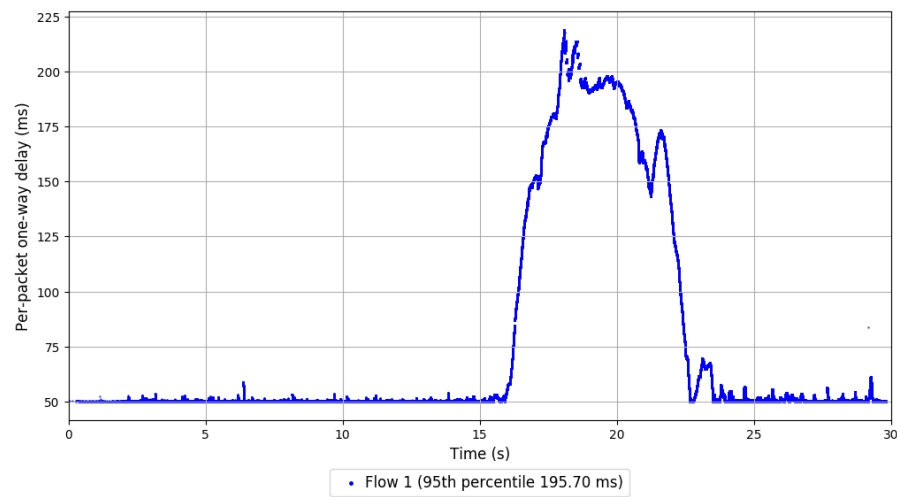
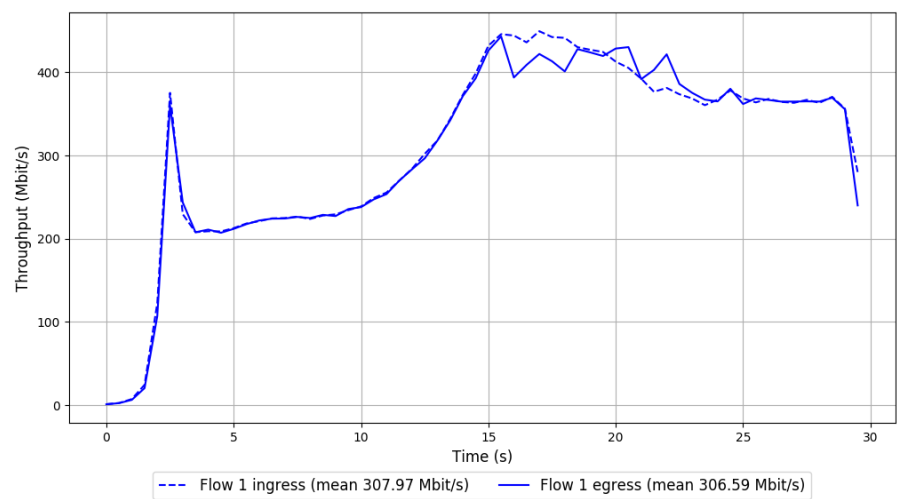


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-03-27 03:35:58
End at: 2018-03-27 03:36:28

# Below is generated by plot.py at 2018-03-27 10:06:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 306.59 Mbit/s
95th percentile per-packet one-way delay: 195.696 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 306.59 Mbit/s
95th percentile per-packet one-way delay: 195.696 ms
Loss rate: 0.79%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

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

End at: 2018-03-27 03:50:38

Below is generated by plot.py at 2018-03-27 10:07:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.02 Mbit/s

95th percentile per-packet one-way delay: 84.534 ms

Loss rate: 0.37%

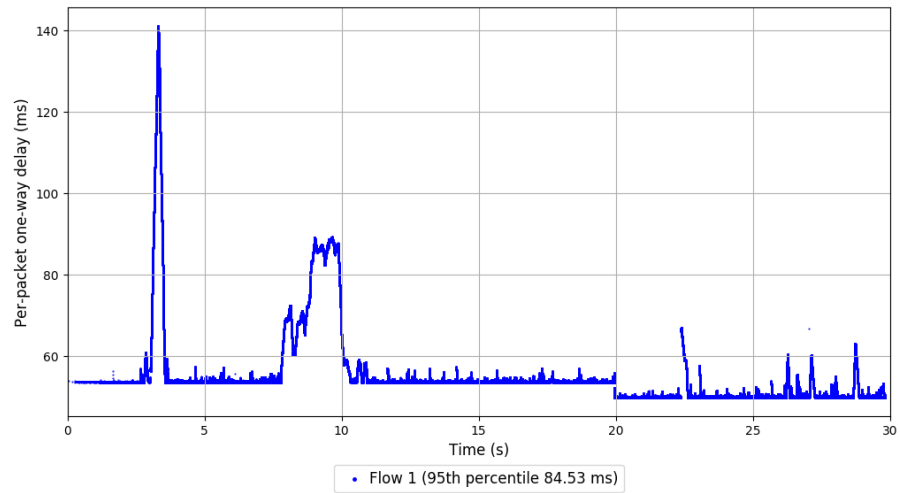
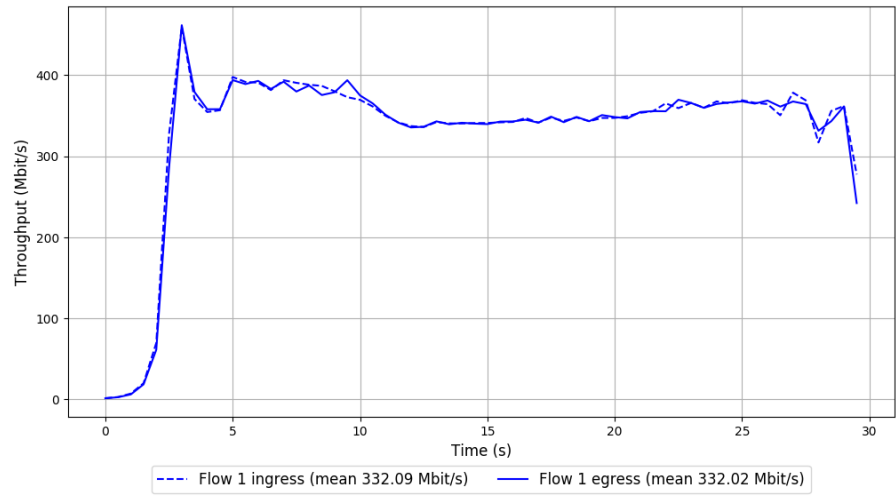
-- Flow 1:

Average throughput: 332.02 Mbit/s

95th percentile per-packet one-way delay: 84.534 ms

Loss rate: 0.37%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-03-27 04:04:18

End at: 2018-03-27 04:04:48

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.47 Mbit/s

95th percentile per-packet one-way delay: 148.599 ms

Loss rate: 0.37%

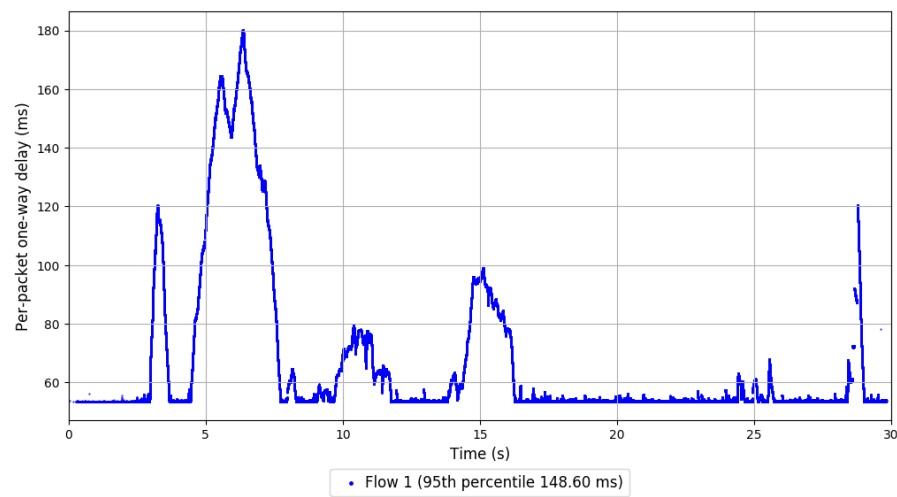
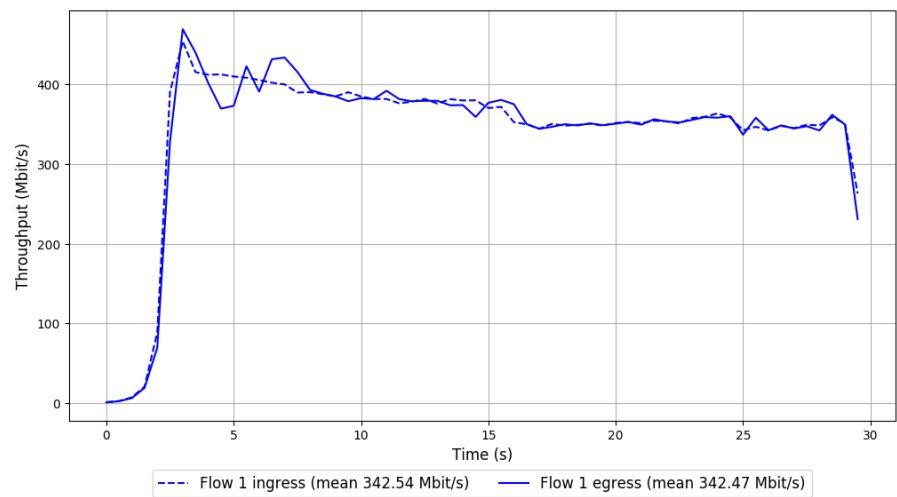
-- Flow 1:

Average throughput: 342.47 Mbit/s

95th percentile per-packet one-way delay: 148.599 ms

Loss rate: 0.37%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-03-27 04:18:38

End at: 2018-03-27 04:19:08

Below is generated by plot.py at 2018-03-27 10:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.58 Mbit/s

95th percentile per-packet one-way delay: 119.392 ms

Loss rate: 0.43%

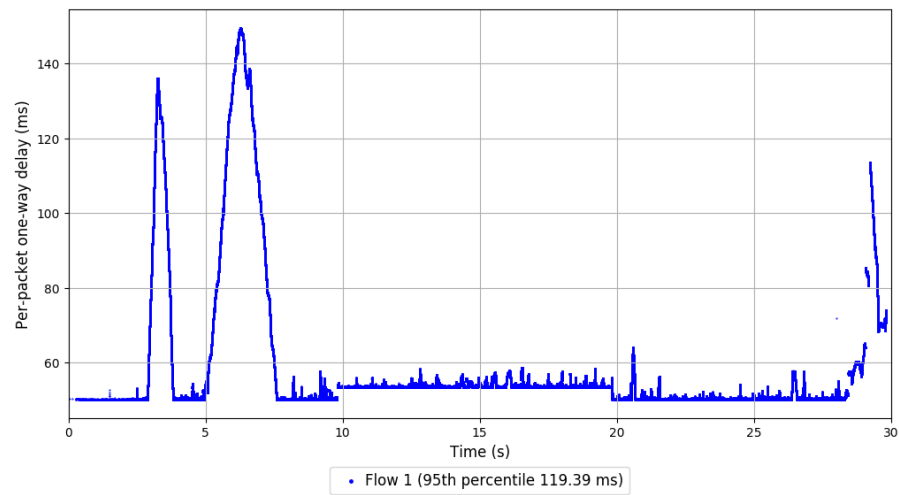
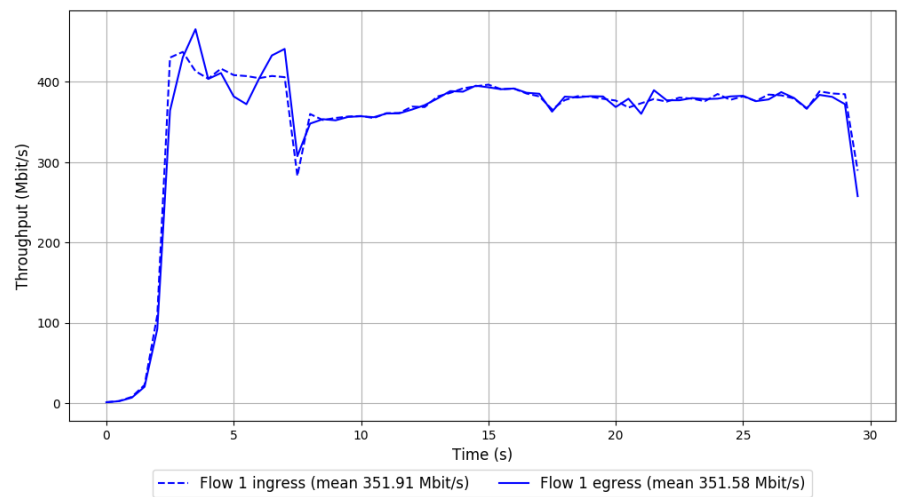
-- Flow 1:

Average throughput: 351.58 Mbit/s

95th percentile per-packet one-way delay: 119.392 ms

Loss rate: 0.43%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-03-27 04:32:43

End at: 2018-03-27 04:33:13

Below is generated by plot.py at 2018-03-27 10:11:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.58 Mbit/s

95th percentile per-packet one-way delay: 98.443 ms

Loss rate: 0.37%

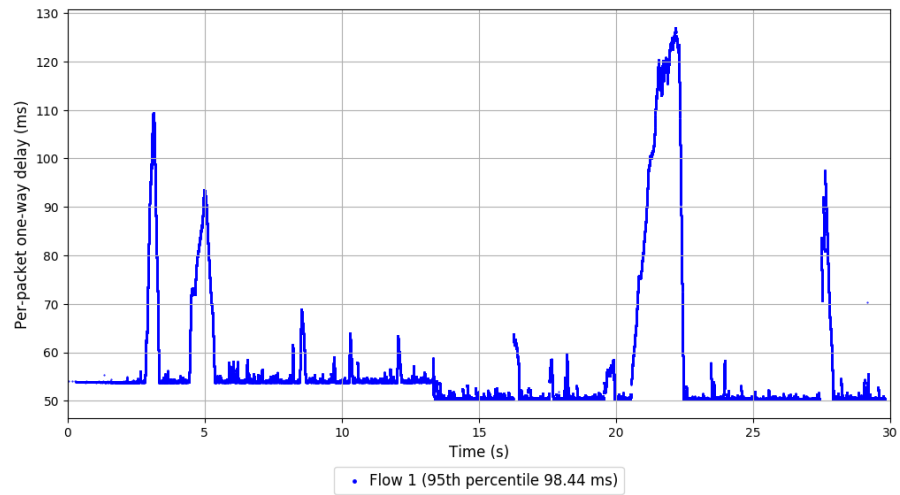
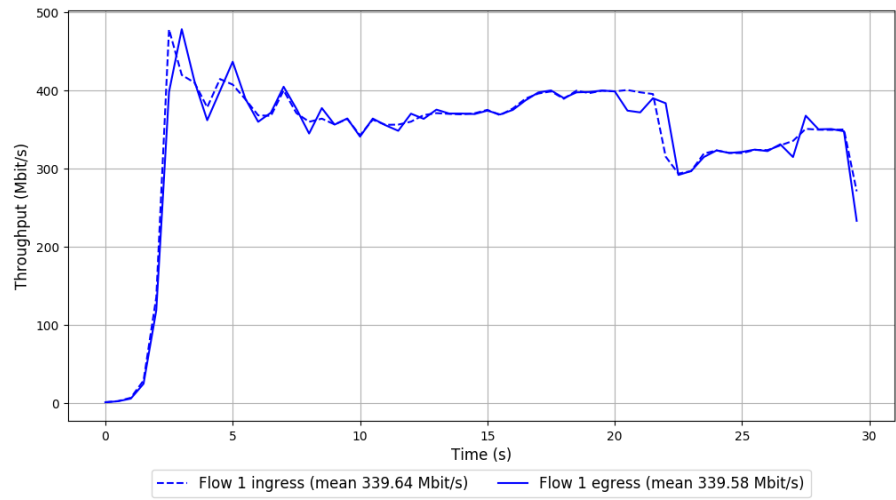
-- Flow 1:

Average throughput: 339.58 Mbit/s

95th percentile per-packet one-way delay: 98.443 ms

Loss rate: 0.37%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-03-27 04:47:08

End at: 2018-03-27 04:47:38

Below is generated by plot.py at 2018-03-27 10:11:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.57 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.34%

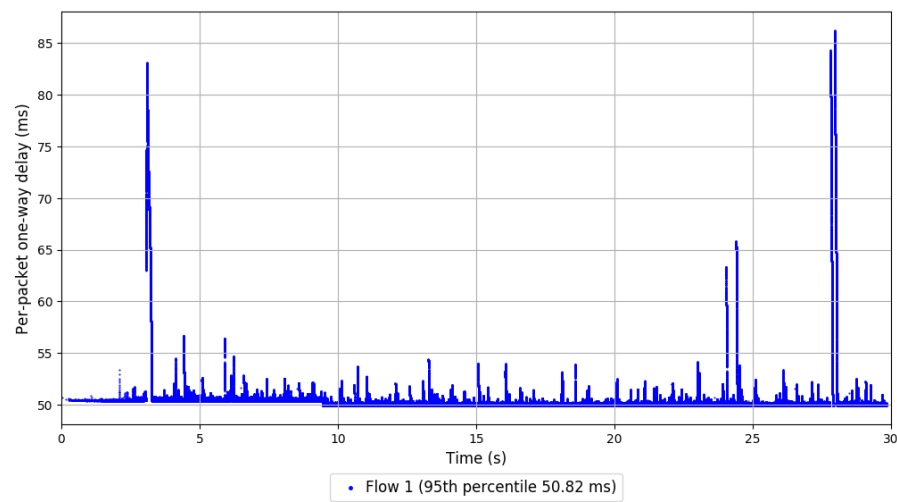
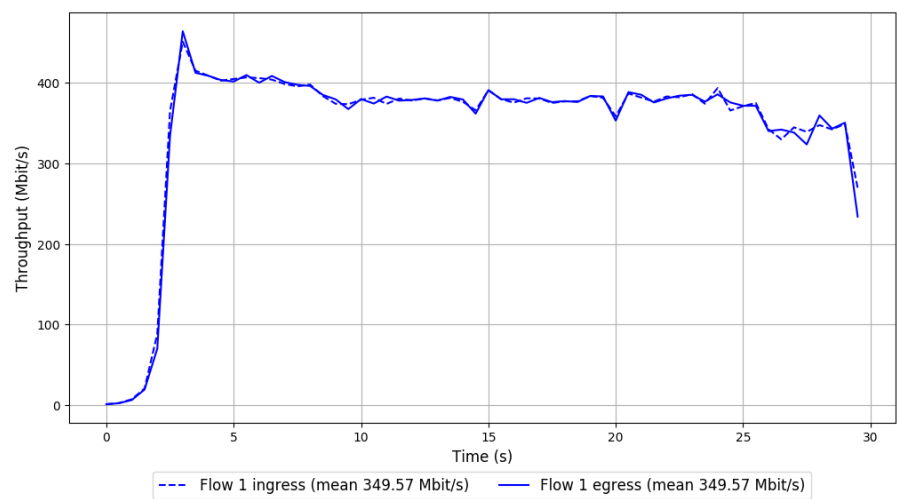
-- Flow 1:

Average throughput: 349.57 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.34%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-03-27 05:01:17

End at: 2018-03-27 05:01:47

Below is generated by plot.py at 2018-03-27 10:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.47 Mbit/s

95th percentile per-packet one-way delay: 170.640 ms

Loss rate: 0.41%

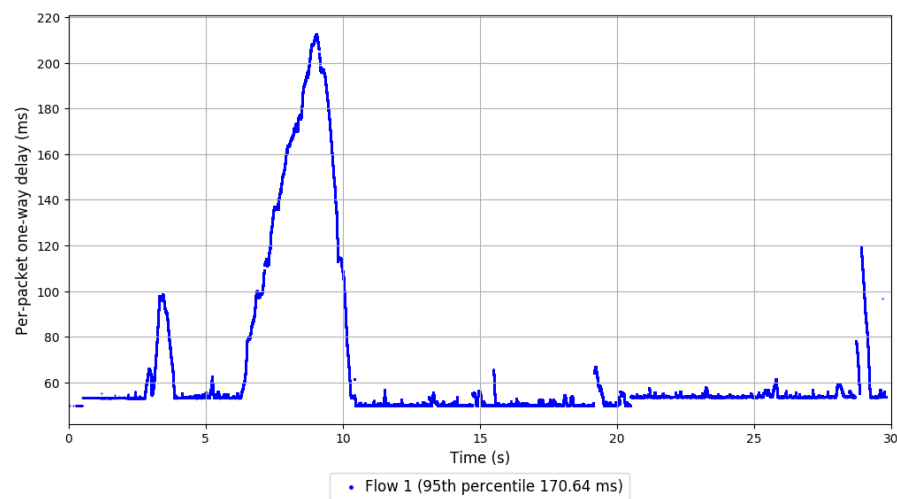
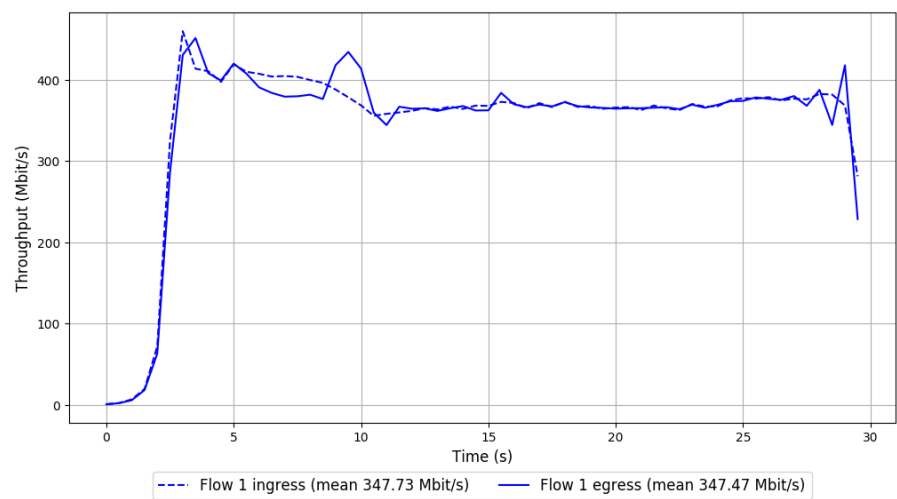
-- Flow 1:

Average throughput: 347.47 Mbit/s

95th percentile per-packet one-way delay: 170.640 ms

Loss rate: 0.41%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-03-27 05:15:44

End at: 2018-03-27 05:16:14

Below is generated by plot.py at 2018-03-27 10:12:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.83 Mbit/s

95th percentile per-packet one-way delay: 135.438 ms

Loss rate: 0.53%

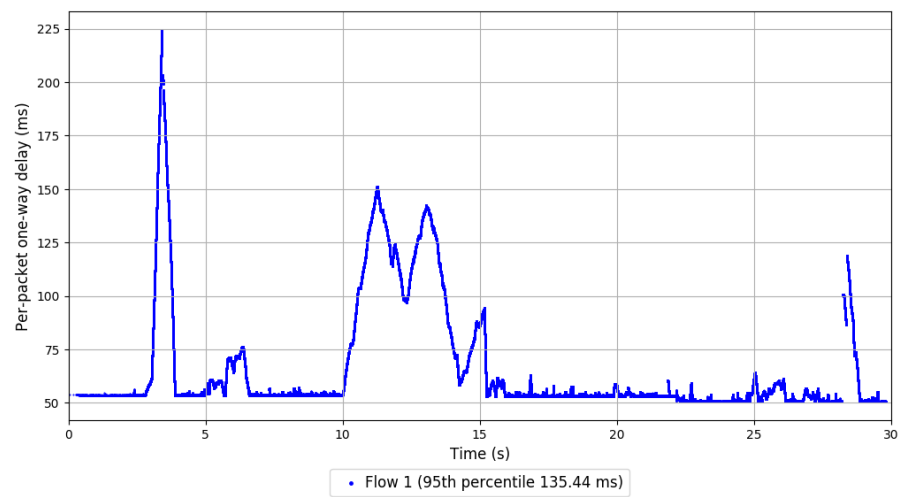
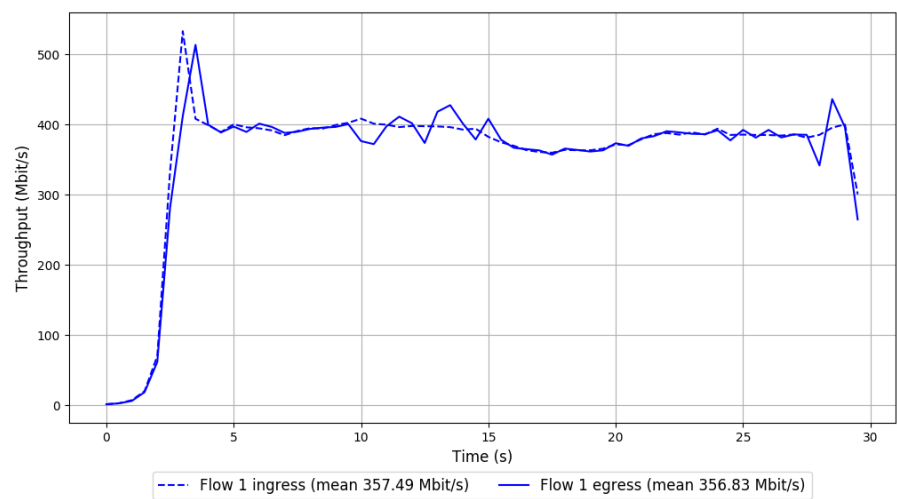
-- Flow 1:

Average throughput: 356.83 Mbit/s

95th percentile per-packet one-way delay: 135.438 ms

Loss rate: 0.53%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-03-27 05:29:56

End at: 2018-03-27 05:30:26

Below is generated by plot.py at 2018-03-27 10:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.48 Mbit/s

95th percentile per-packet one-way delay: 87.209 ms

Loss rate: 0.46%

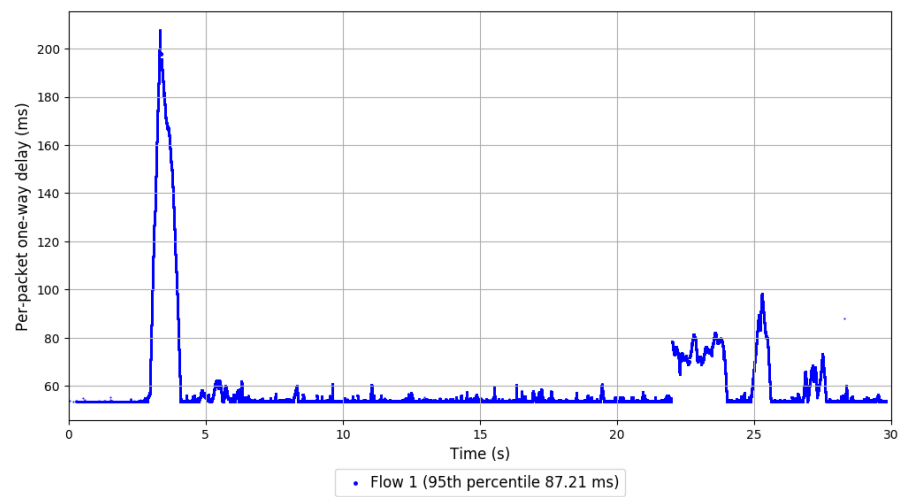
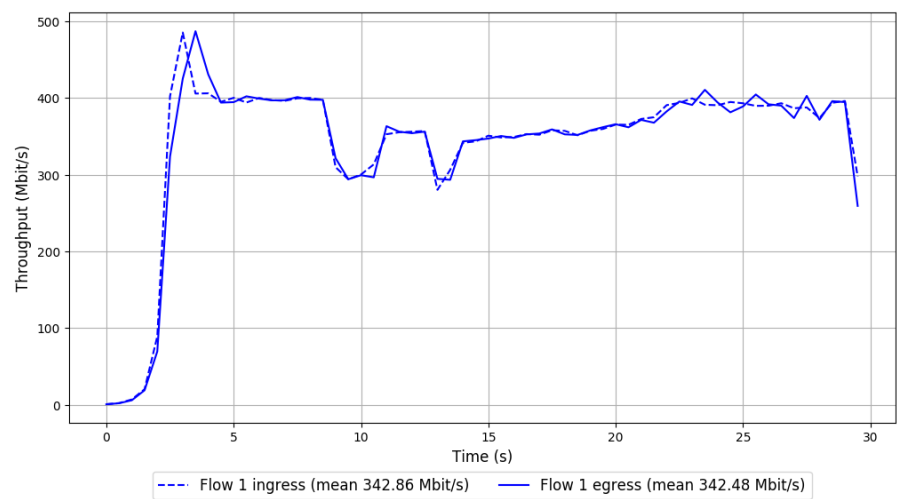
-- Flow 1:

Average throughput: 342.48 Mbit/s

95th percentile per-packet one-way delay: 87.209 ms

Loss rate: 0.46%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-03-27 05:44:19
End at: 2018-03-27 05:44:49

# Below is generated by plot.py at 2018-03-27 10:12:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.09 Mbit/s
95th percentile per-packet one-way delay: 84.184 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 369.09 Mbit/s
95th percentile per-packet one-way delay: 84.184 ms
Loss rate: 0.36%
```

Run 10: Report of Vivace-LTE — Data Link

