

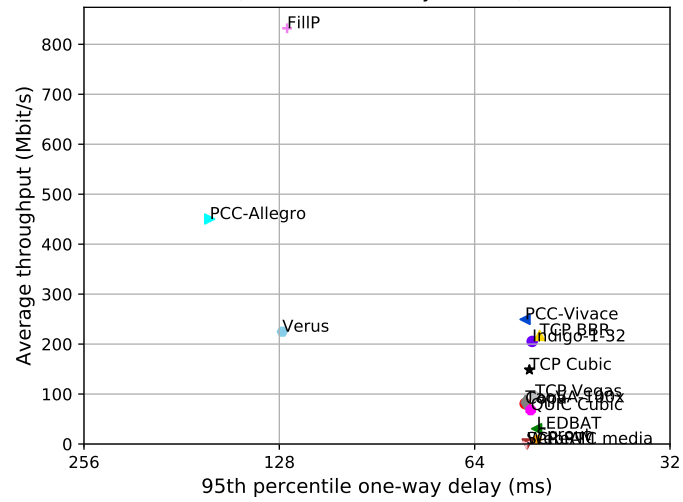
Pantheon Report

Generated at 2018-04-17 17:40:55 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 16 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**).

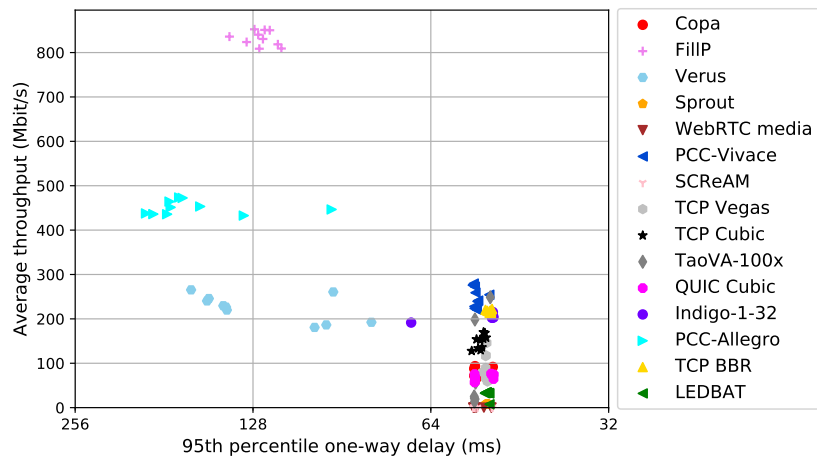
Git summary:

```
branch: master @ b3d6e7098641364fd3a292656a51aa81e316d0b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
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/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 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	217.36	50.83	0.37
TCP Cubic	10	148.54	52.71	0.37
LEDBAT	10	30.61	51.38	0.75
PCC-Allegro	10	450.34	163.85	1.04
QUIC Cubic	10	68.12	52.46	0.43
SCReAM	10	0.21	53.30	0.37
WebRTC media	10	0.06	53.12	0.00
Sprout	10	7.86	51.39	0.44
TaoVA-100x	7	83.32	53.47	0.36
TCP Vegas	10	95.35	51.64	0.34
Verus	10	224.78	126.68	0.30
Copa	10	80.82	53.50	0.29
FillP	10	832.05	124.52	1.71
Indigo-1-32	10	205.30	52.19	0.34
PCC-Vivace	10	249.43	53.53	0.38
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 12:22:57

End at: 2018-04-17 12:23:28

Below is generated by plot.py at 2018-04-17 16:43:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.90 Mbit/s

95th percentile per-packet one-way delay: 50.589 ms

Loss rate: 0.35%

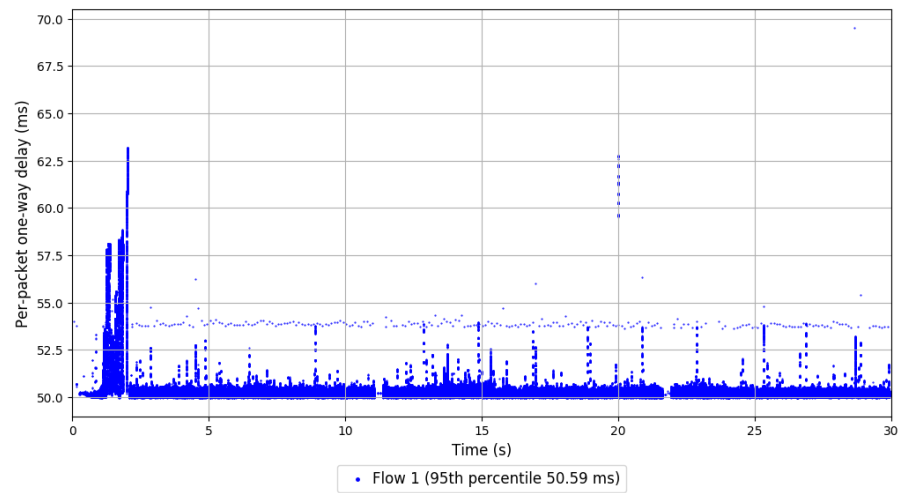
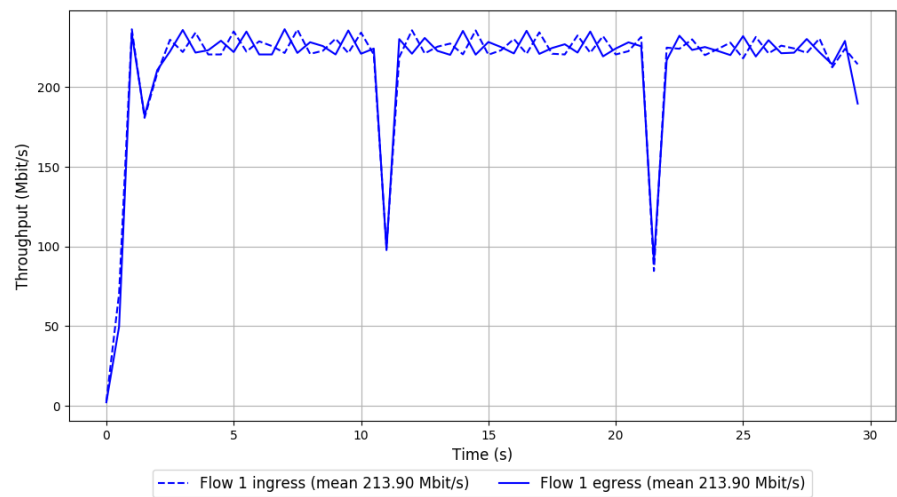
-- Flow 1:

Average throughput: 213.90 Mbit/s

95th percentile per-packet one-way delay: 50.589 ms

Loss rate: 0.35%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 12:35:36

End at: 2018-04-17 12:36:06

Below is generated by plot.py at 2018-04-17 16:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.26 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 0.38%

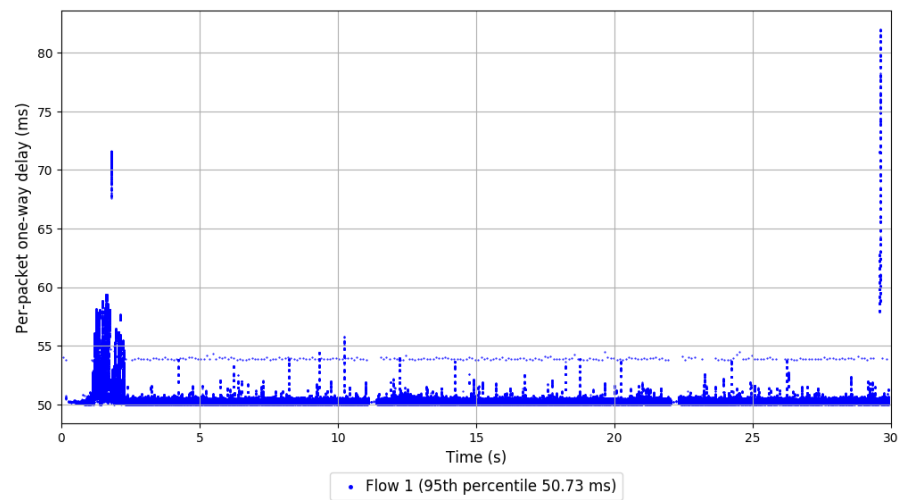
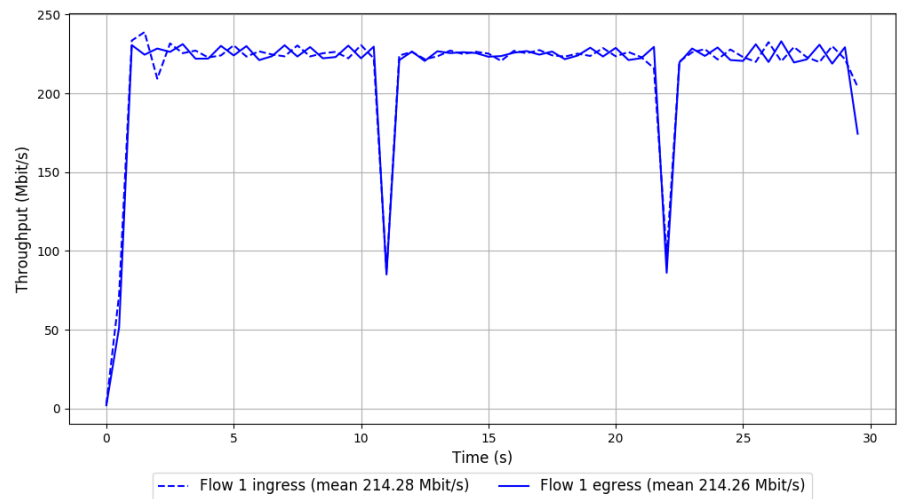
-- Flow 1:

Average throughput: 214.26 Mbit/s

95th percentile per-packet one-way delay: 50.728 ms

Loss rate: 0.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 12:48:13

End at: 2018-04-17 12:48:43

Below is generated by plot.py at 2018-04-17 16:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.36 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.37%

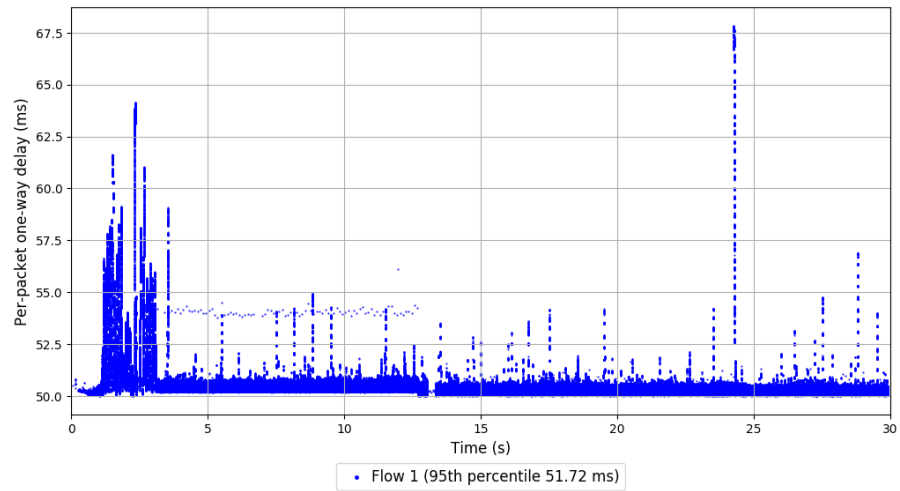
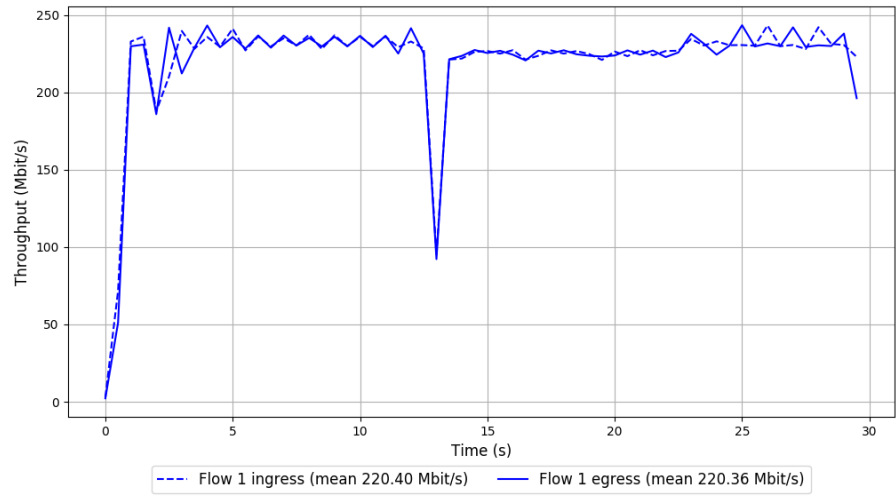
-- Flow 1:

Average throughput: 220.36 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.37%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 13:01:01

End at: 2018-04-17 13:01:31

Below is generated by plot.py at 2018-04-17 16:43:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.05 Mbit/s

95th percentile per-packet one-way delay: 50.923 ms

Loss rate: 0.35%

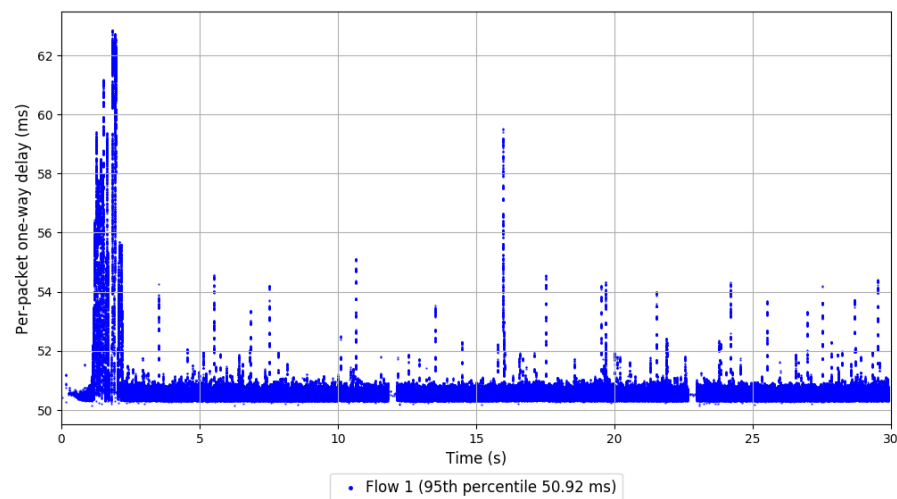
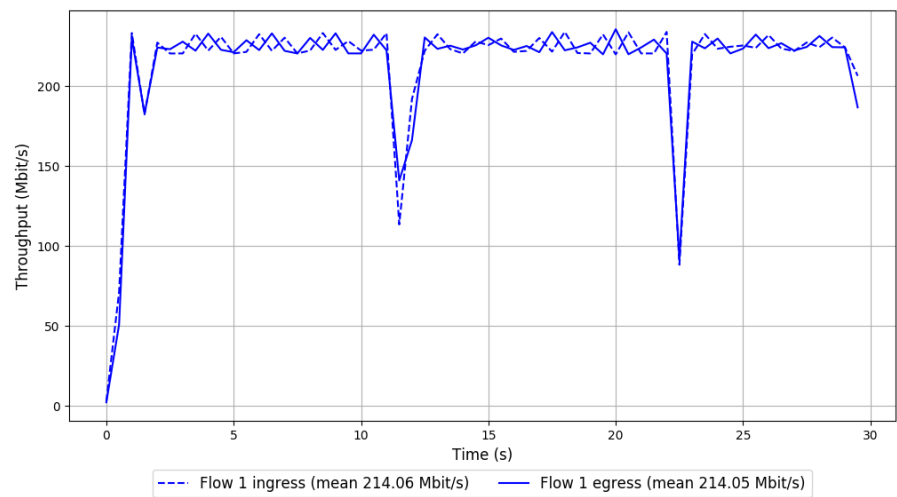
-- Flow 1:

Average throughput: 214.05 Mbit/s

95th percentile per-packet one-way delay: 50.923 ms

Loss rate: 0.35%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 13:14:05

End at: 2018-04-17 13:14:35

Below is generated by plot.py at 2018-04-17 16:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.63 Mbit/s

95th percentile per-packet one-way delay: 50.786 ms

Loss rate: 0.35%

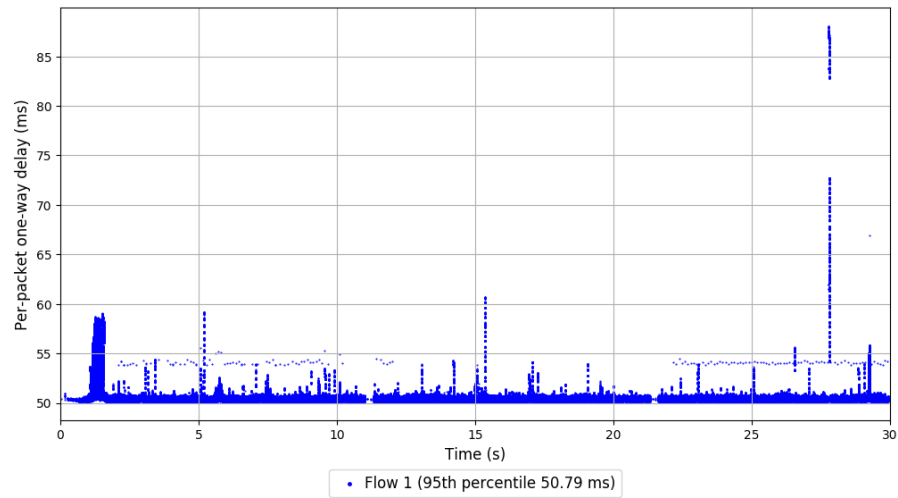
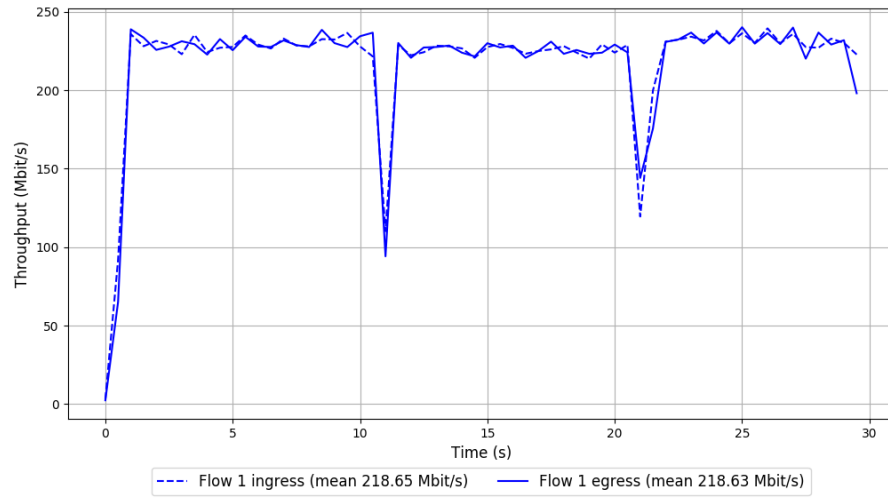
-- Flow 1:

Average throughput: 218.63 Mbit/s

95th percentile per-packet one-way delay: 50.786 ms

Loss rate: 0.35%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 13:26:50

End at: 2018-04-17 13:27:20

Below is generated by plot.py at 2018-04-17 16:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.54 Mbit/s

95th percentile per-packet one-way delay: 50.623 ms

Loss rate: 0.37%

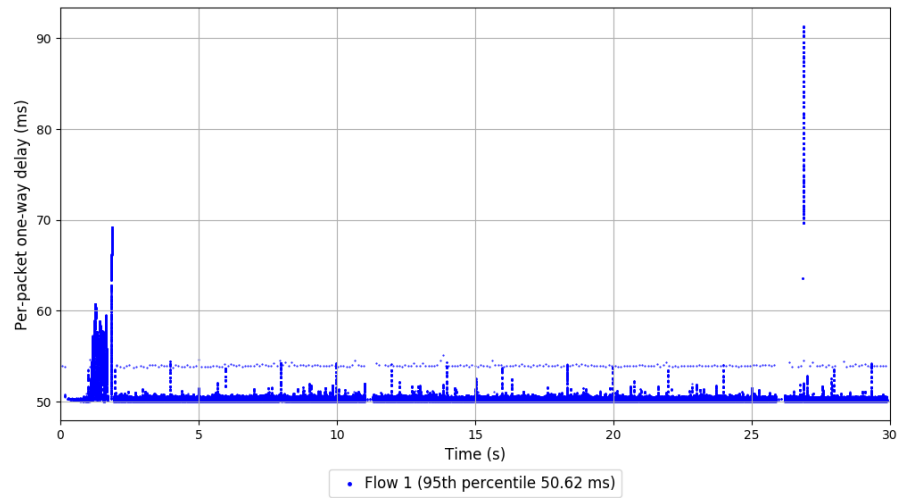
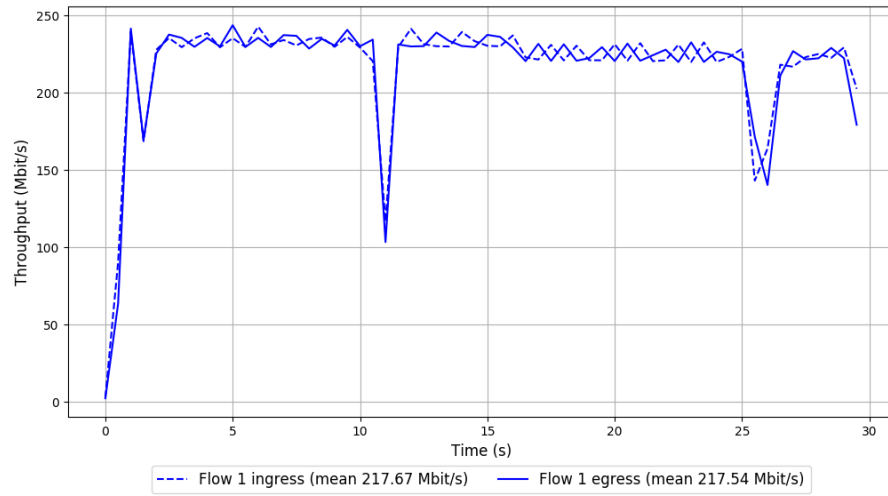
-- Flow 1:

Average throughput: 217.54 Mbit/s

95th percentile per-packet one-way delay: 50.623 ms

Loss rate: 0.37%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 13:39:38

End at: 2018-04-17 13:40:08

Below is generated by plot.py at 2018-04-17 16:43:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 51.327 ms

Loss rate: 0.34%

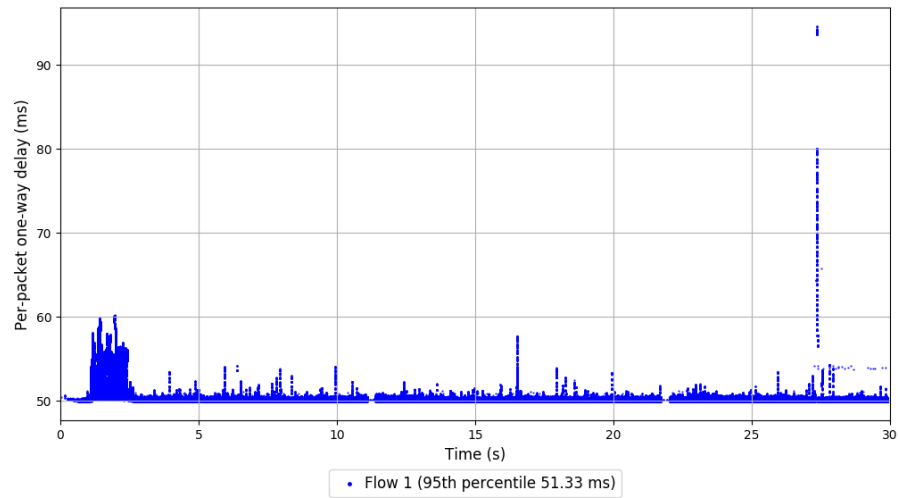
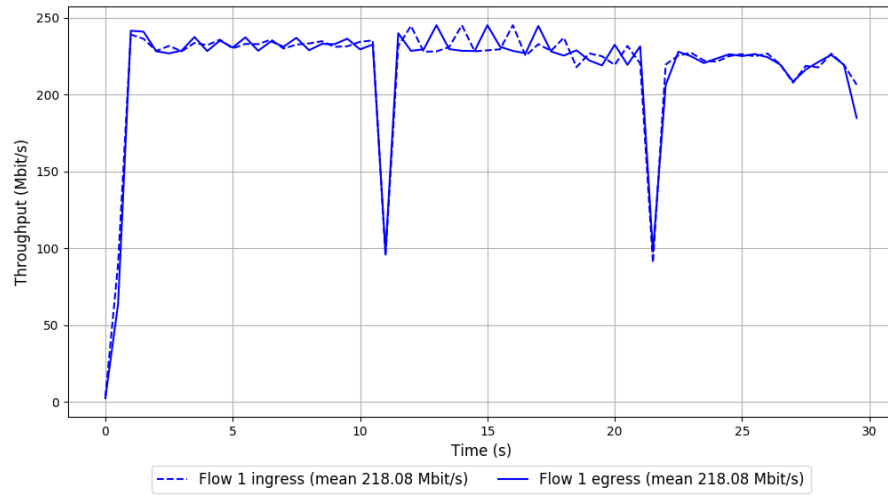
-- Flow 1:

Average throughput: 218.08 Mbit/s

95th percentile per-packet one-way delay: 51.327 ms

Loss rate: 0.34%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 13:52:21

End at: 2018-04-17 13:52:51

Below is generated by plot.py at 2018-04-17 16:43:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.33 Mbit/s

95th percentile per-packet one-way delay: 50.409 ms

Loss rate: 0.37%

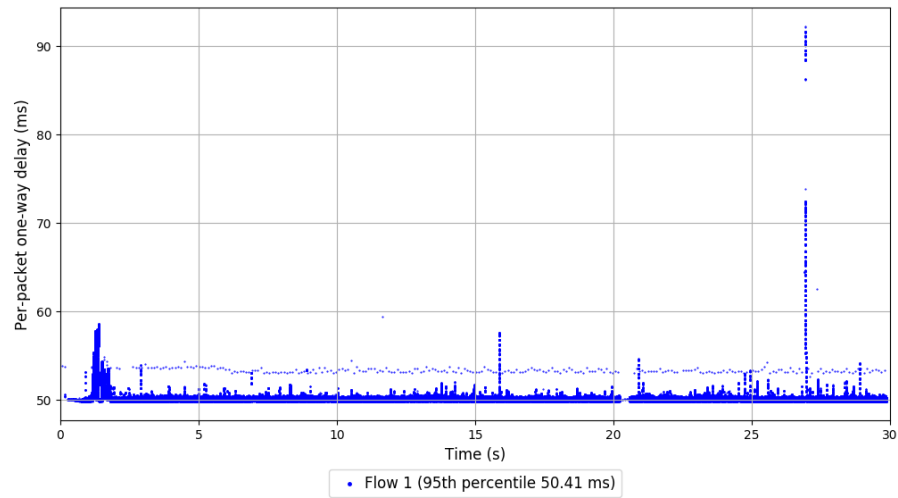
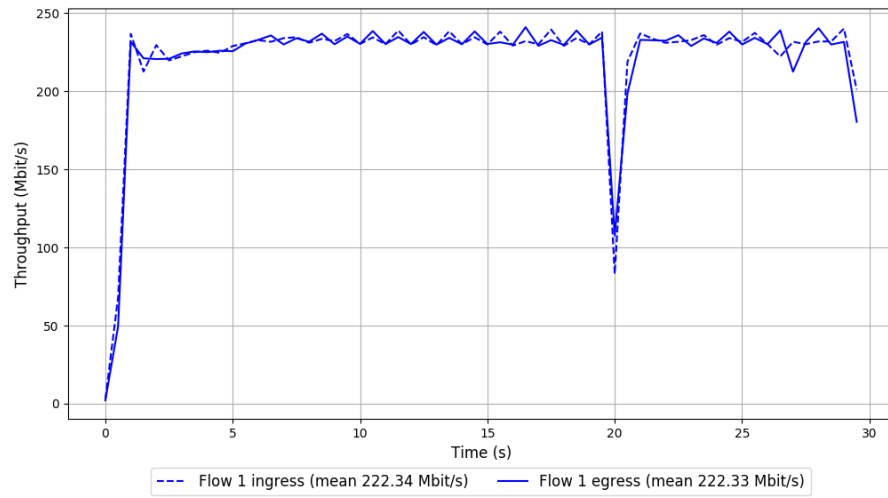
-- Flow 1:

Average throughput: 222.33 Mbit/s

95th percentile per-packet one-way delay: 50.409 ms

Loss rate: 0.37%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 14:04:58

End at: 2018-04-17 14:05:28

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.56 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.39%

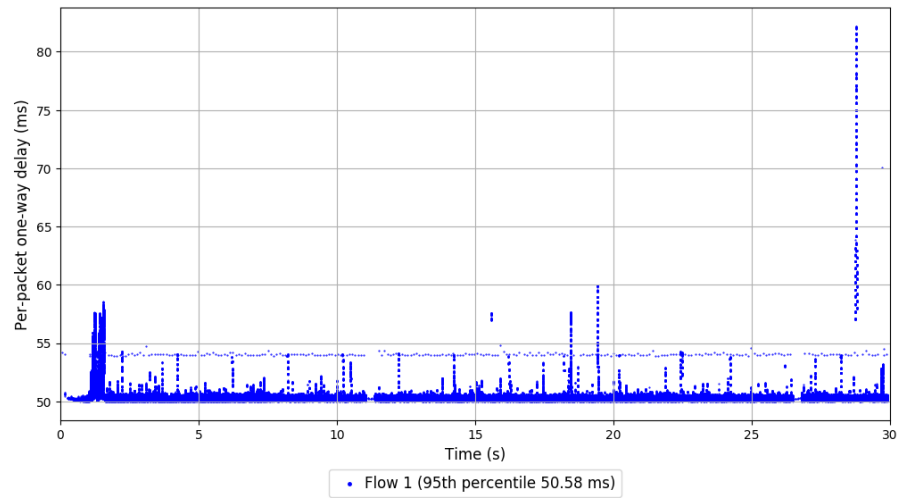
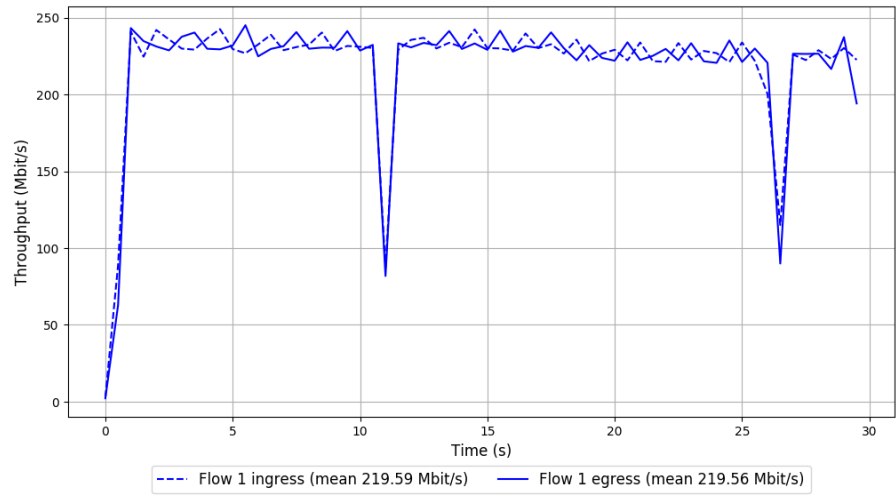
-- Flow 1:

Average throughput: 219.56 Mbit/s

95th percentile per-packet one-way delay: 50.580 ms

Loss rate: 0.39%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 14:17:45

End at: 2018-04-17 14:18:15

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.41%

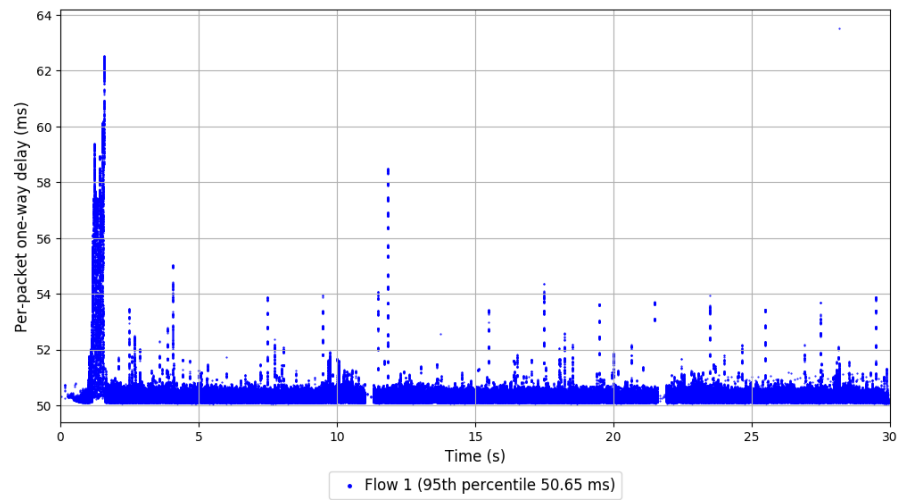
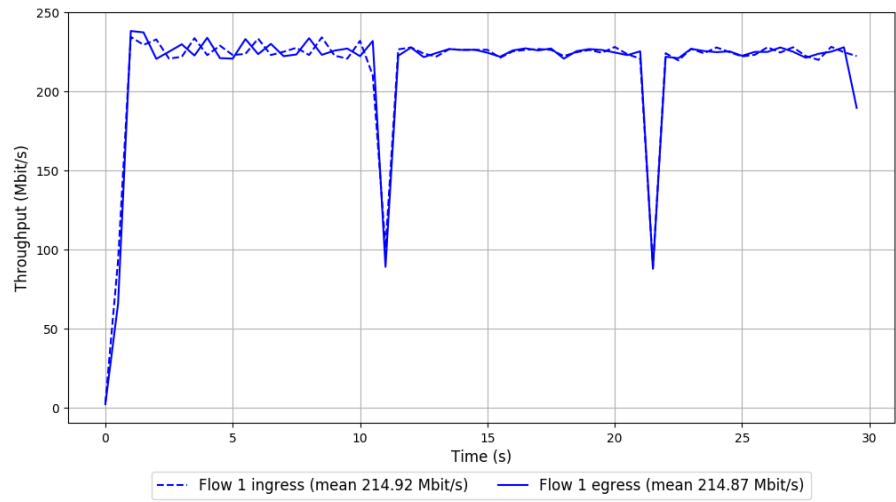
-- Flow 1:

Average throughput: 214.87 Mbit/s

95th percentile per-packet one-way delay: 50.652 ms

Loss rate: 0.41%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 12:27:15

End at: 2018-04-17 12:27:45

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.47 Mbit/s

95th percentile per-packet one-way delay: 52.710 ms

Loss rate: 0.40%

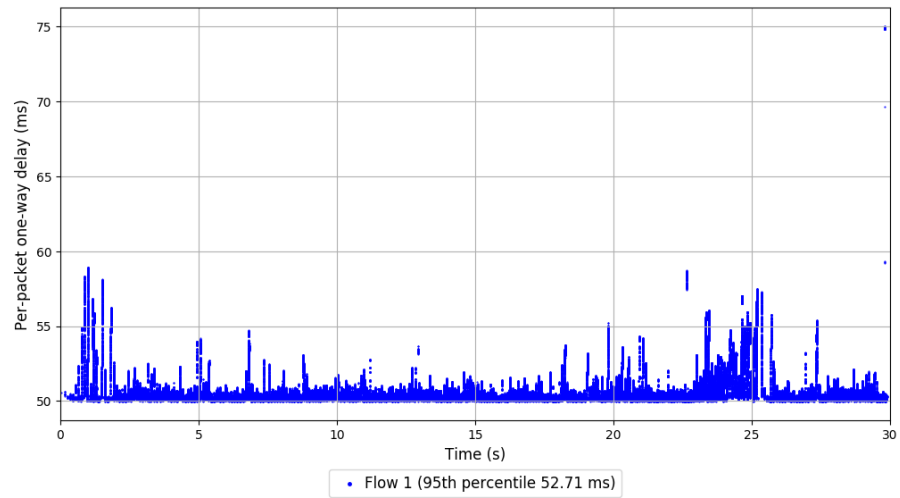
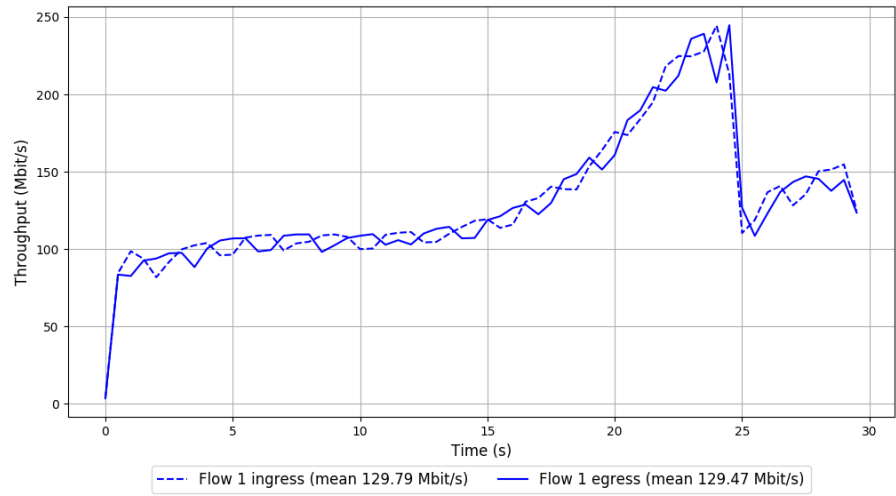
-- Flow 1:

Average throughput: 129.47 Mbit/s

95th percentile per-packet one-way delay: 52.710 ms

Loss rate: 0.40%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 12:39:56

End at: 2018-04-17 12:40:26

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.97 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 0.35%

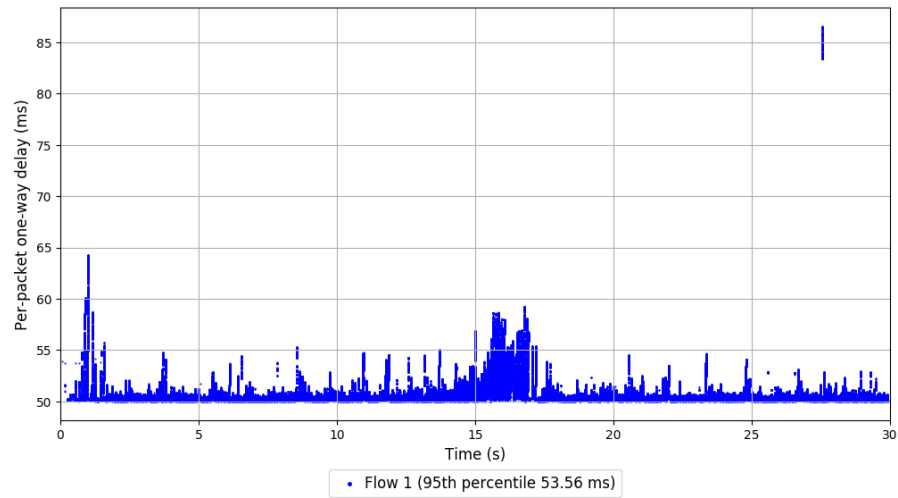
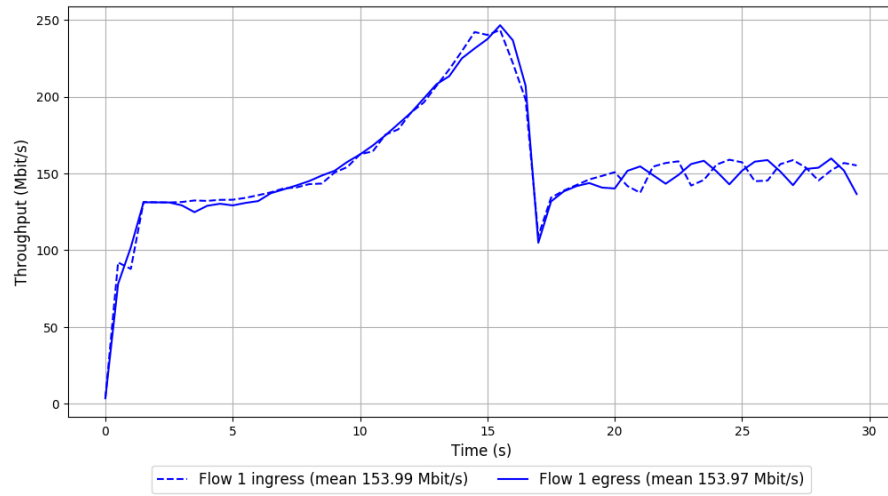
-- Flow 1:

Average throughput: 153.97 Mbit/s

95th percentile per-packet one-way delay: 53.556 ms

Loss rate: 0.35%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 12:52:36

End at: 2018-04-17 12:53:06

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.32 Mbit/s

95th percentile per-packet one-way delay: 52.191 ms

Loss rate: 0.50%

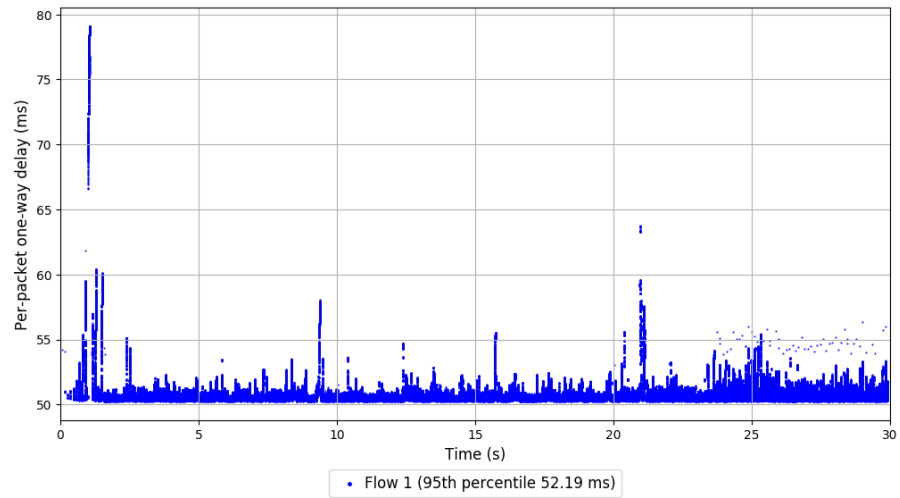
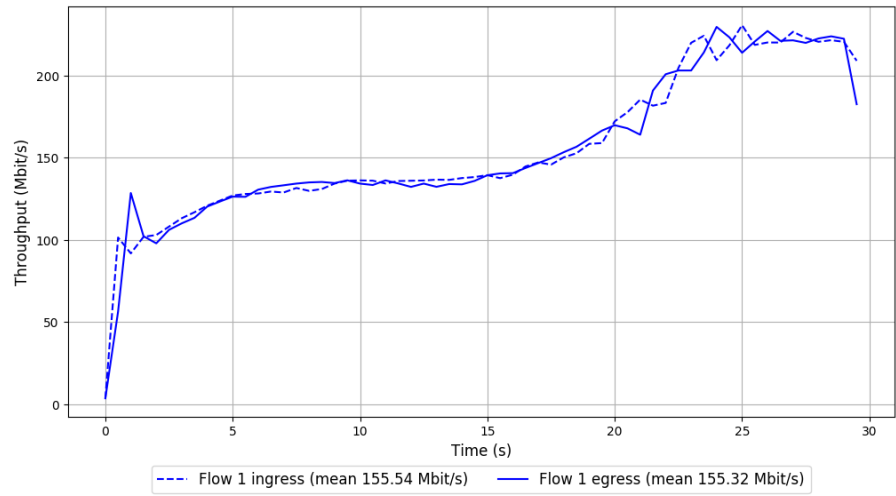
-- Flow 1:

Average throughput: 155.32 Mbit/s

95th percentile per-packet one-way delay: 52.191 ms

Loss rate: 0.50%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 13:05:21

End at: 2018-04-17 13:05:51

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.85 Mbit/s

95th percentile per-packet one-way delay: 52.439 ms

Loss rate: 0.39%

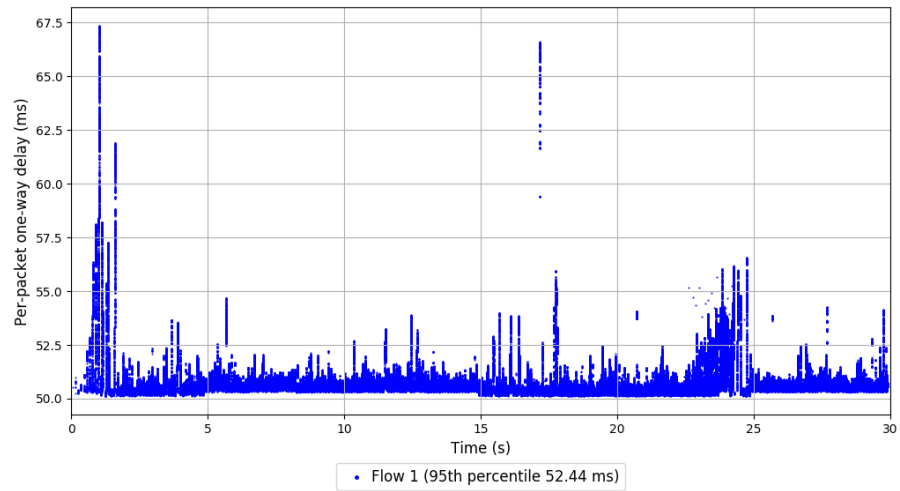
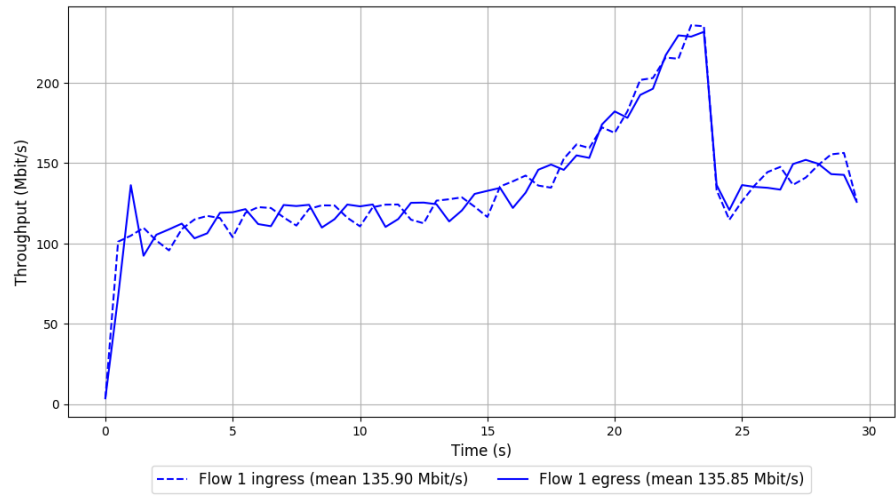
-- Flow 1:

Average throughput: 135.85 Mbit/s

95th percentile per-packet one-way delay: 52.439 ms

Loss rate: 0.39%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 13:18:25

End at: 2018-04-17 13:18:55

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.92 Mbit/s

95th percentile per-packet one-way delay: 52.119 ms

Loss rate: 0.31%

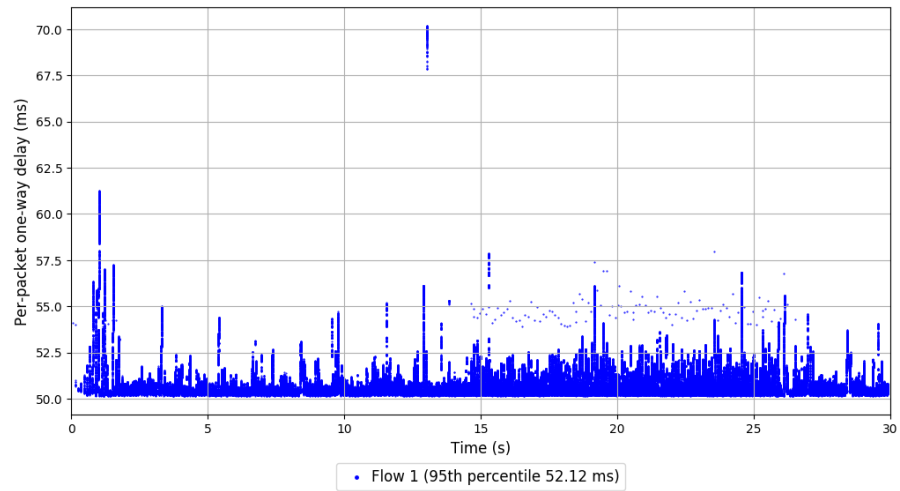
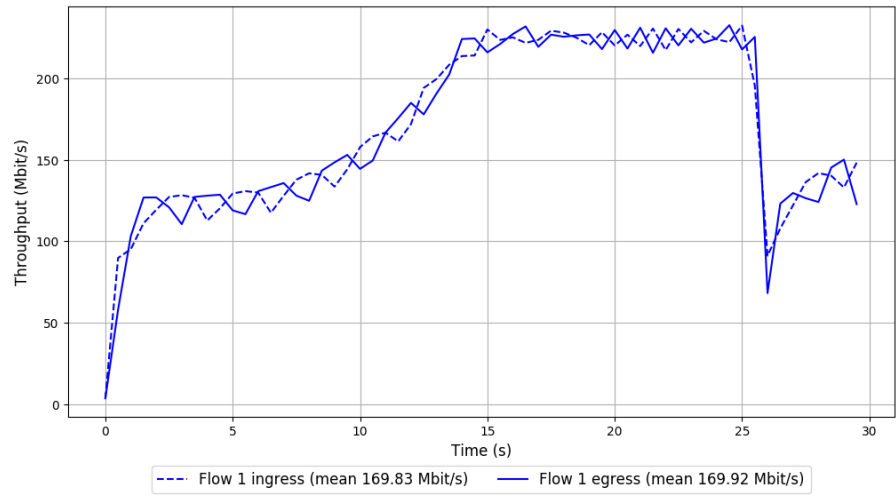
-- Flow 1:

Average throughput: 169.92 Mbit/s

95th percentile per-packet one-way delay: 52.119 ms

Loss rate: 0.31%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 13:31:13

End at: 2018-04-17 13:31:43

Below is generated by plot.py at 2018-04-17 16:47:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.46 Mbit/s

95th percentile per-packet one-way delay: 52.798 ms

Loss rate: 0.34%

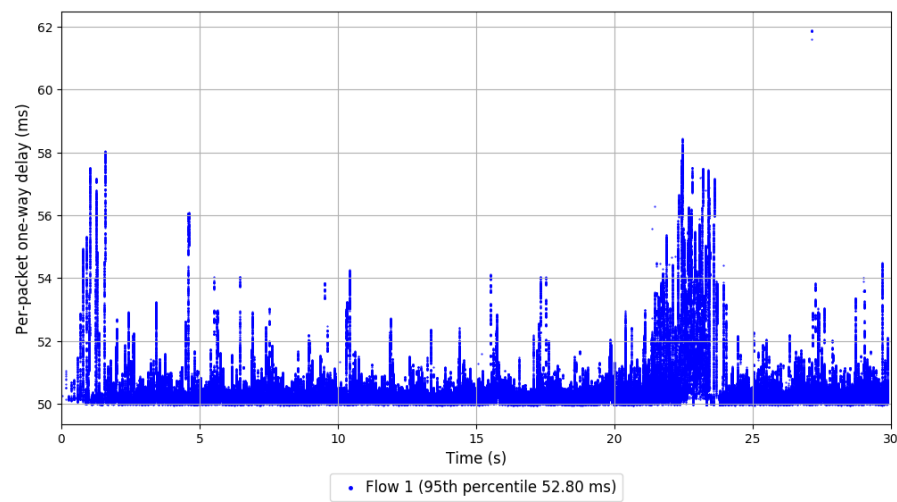
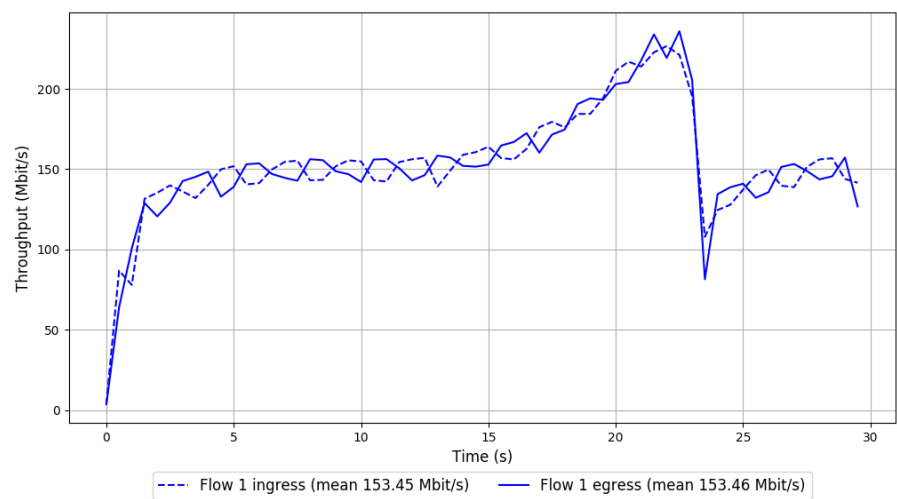
-- Flow 1:

Average throughput: 153.46 Mbit/s

95th percentile per-packet one-way delay: 52.798 ms

Loss rate: 0.34%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 13:43:59

End at: 2018-04-17 13:44:29

Below is generated by plot.py at 2018-04-17 16:47:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 127.74 Mbit/s

95th percentile per-packet one-way delay: 54.581 ms

Loss rate: 0.30%

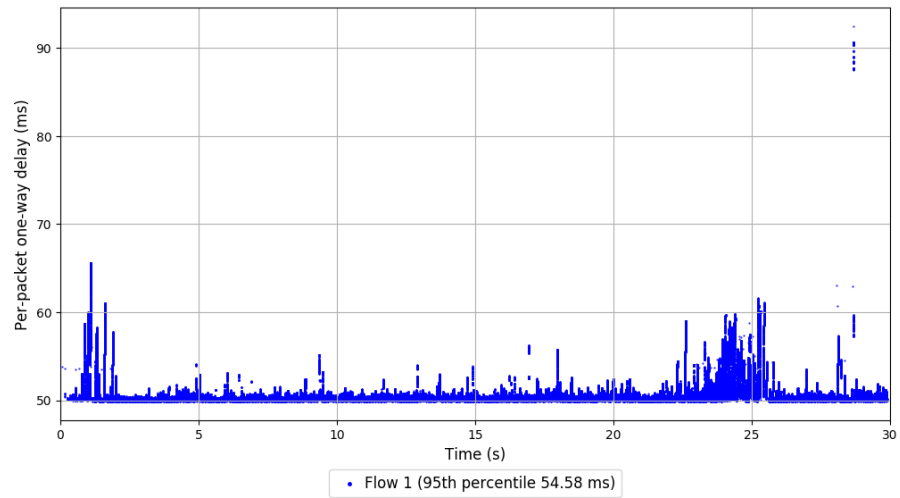
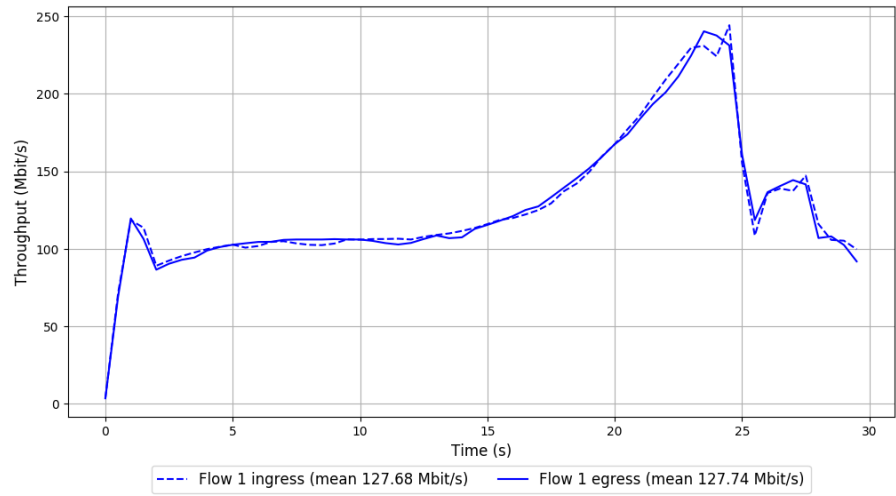
-- Flow 1:

Average throughput: 127.74 Mbit/s

95th percentile per-packet one-way delay: 54.581 ms

Loss rate: 0.30%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 13:56:38

End at: 2018-04-17 13:57:08

Below is generated by plot.py at 2018-04-17 16:48:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 53.213 ms

Loss rate: 0.28%

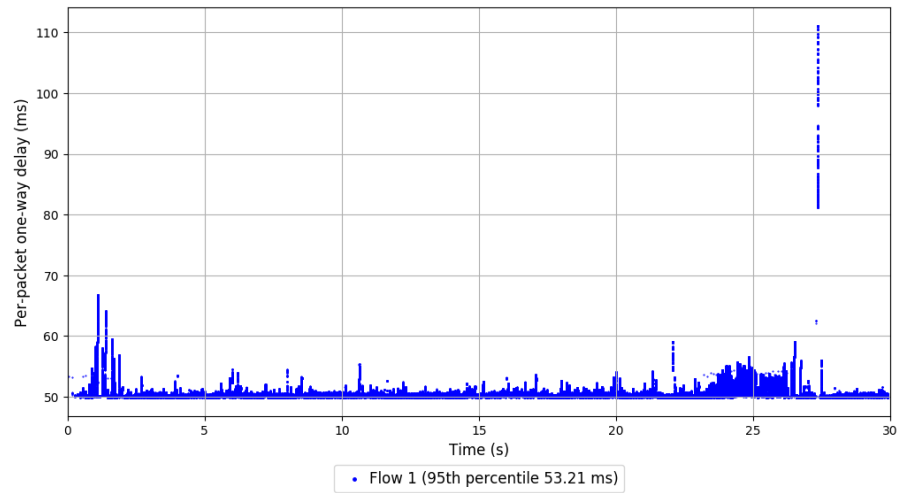
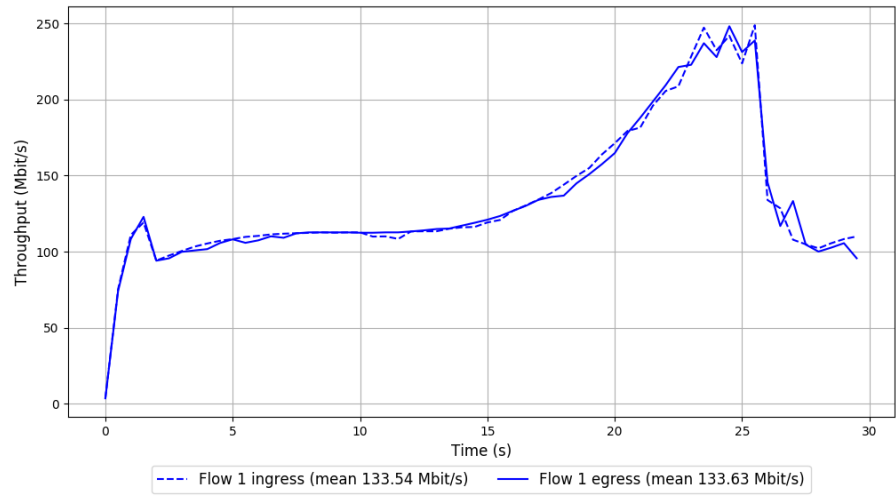
-- Flow 1:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 53.213 ms

Loss rate: 0.28%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 14:09:20

End at: 2018-04-17 14:09:50

Below is generated by plot.py at 2018-04-17 16:48:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 157.76 Mbit/s

95th percentile per-packet one-way delay: 51.604 ms

Loss rate: 0.37%

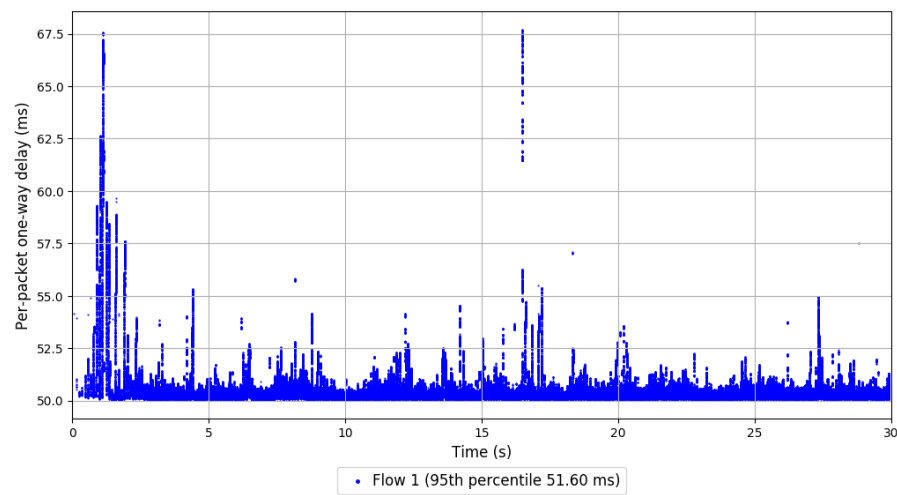
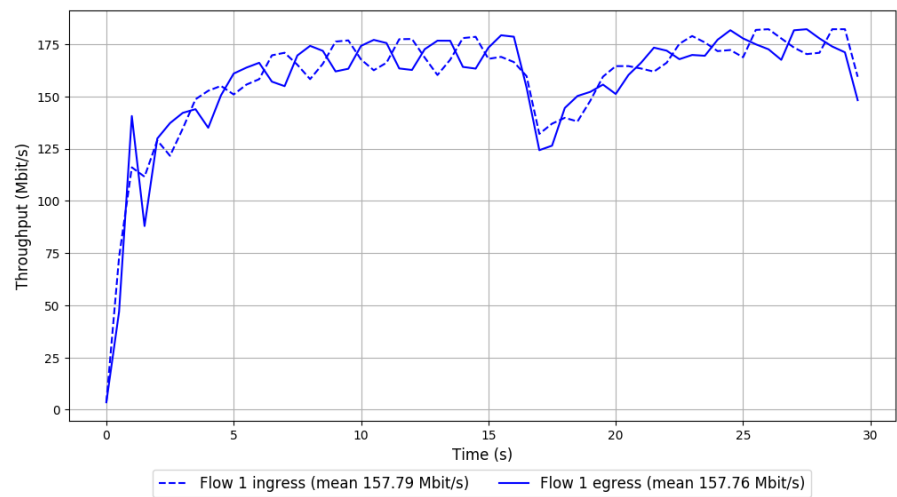
-- Flow 1:

Average throughput: 157.76 Mbit/s

95th percentile per-packet one-way delay: 51.604 ms

Loss rate: 0.37%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 14:22:03

End at: 2018-04-17 14:22:33

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.24 Mbit/s

95th percentile per-packet one-way delay: 51.840 ms

Loss rate: 0.47%

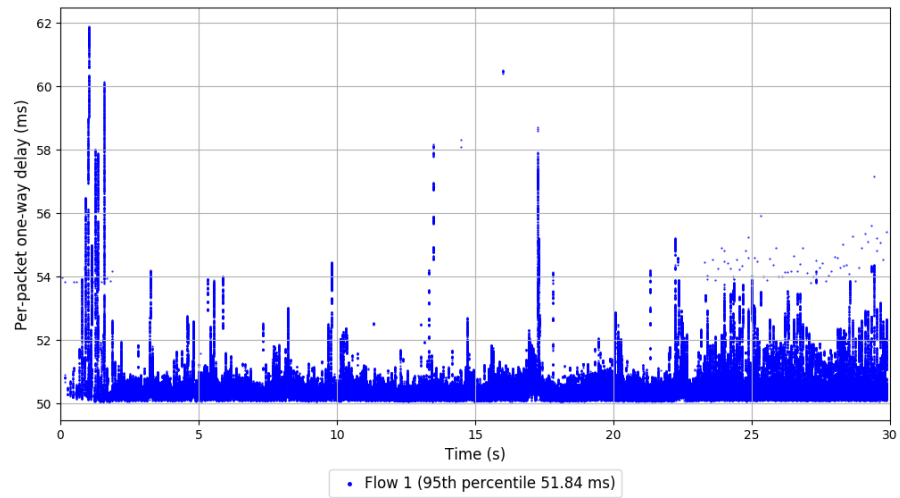
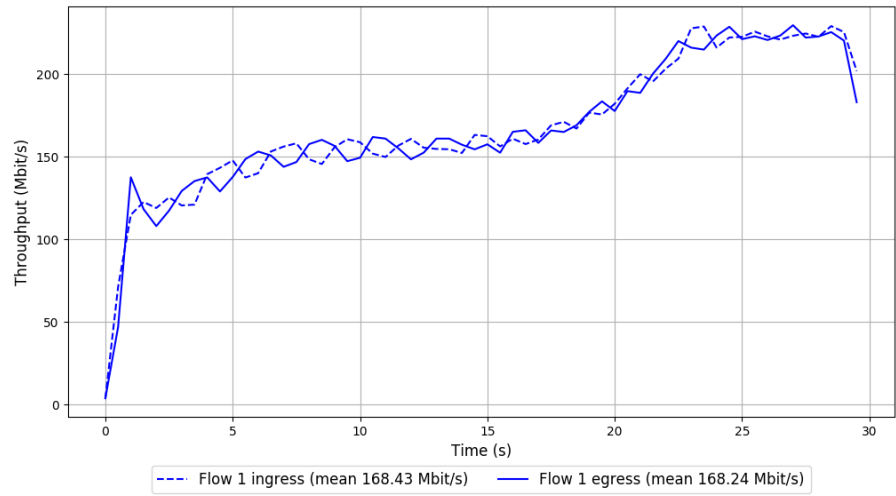
-- Flow 1:

Average throughput: 168.24 Mbit/s

95th percentile per-packet one-way delay: 51.840 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

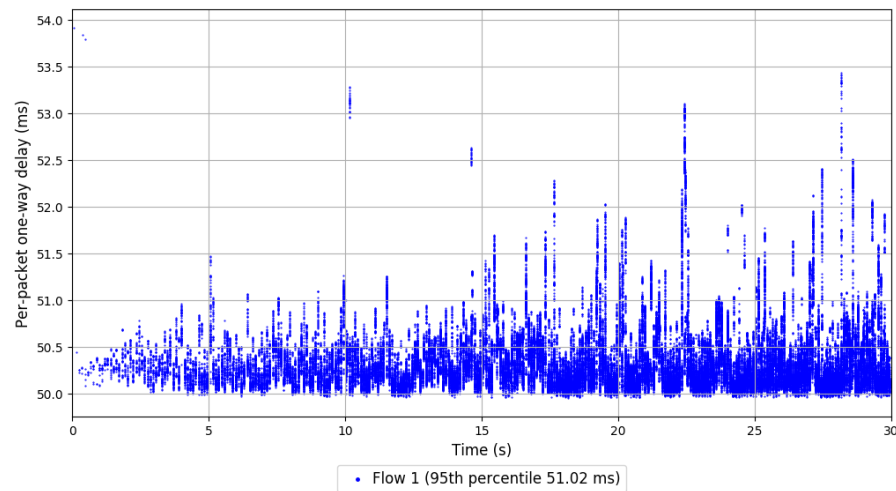
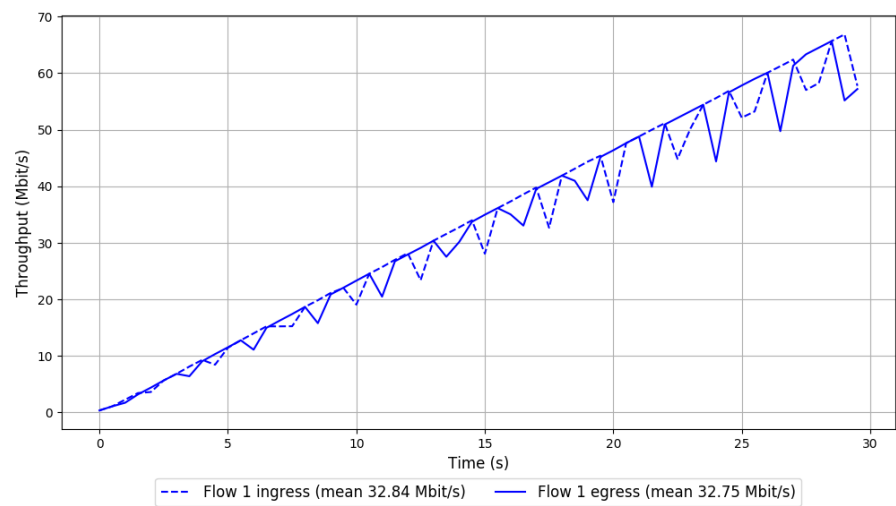


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 12:21:26
End at: 2018-04-17 12:21:56

# Below is generated by plot.py at 2018-04-17 16:49:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 32.75 Mbit/s
95th percentile per-packet one-way delay: 51.023 ms
Loss rate: 0.62%
```

Run 1: Report of LEDBAT — Data Link

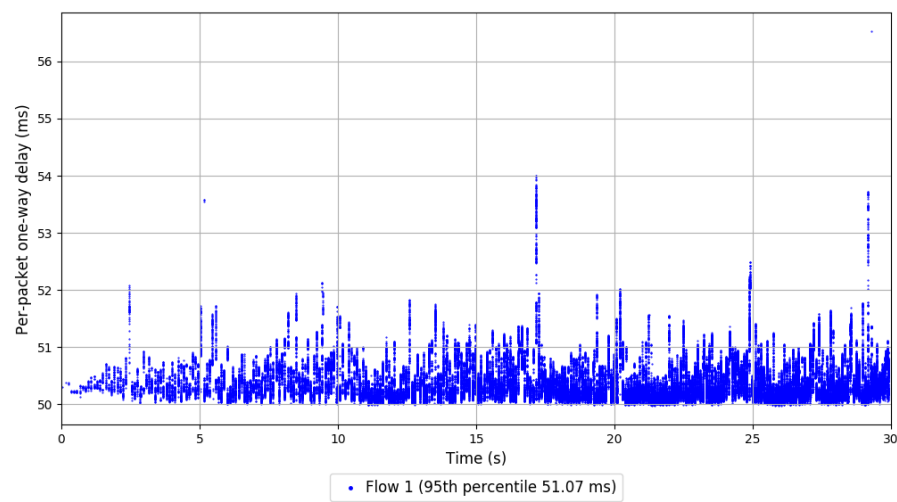
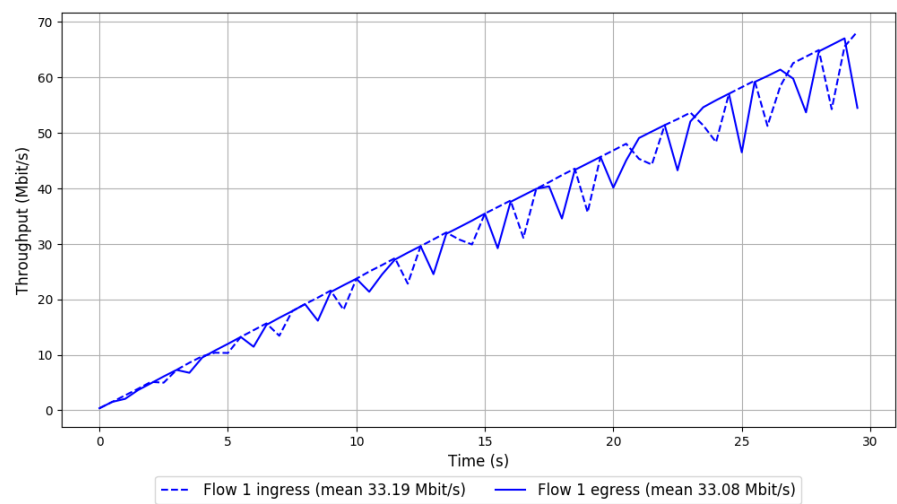


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-17 12:34:05
End at: 2018-04-17 12:34:35

# Below is generated by plot.py at 2018-04-17 16:49:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 51.066 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 33.08 Mbit/s
95th percentile per-packet one-way delay: 51.066 ms
Loss rate: 0.69%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 12:46:42

End at: 2018-04-17 12:47:12

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 51.853 ms

Loss rate: 0.70%

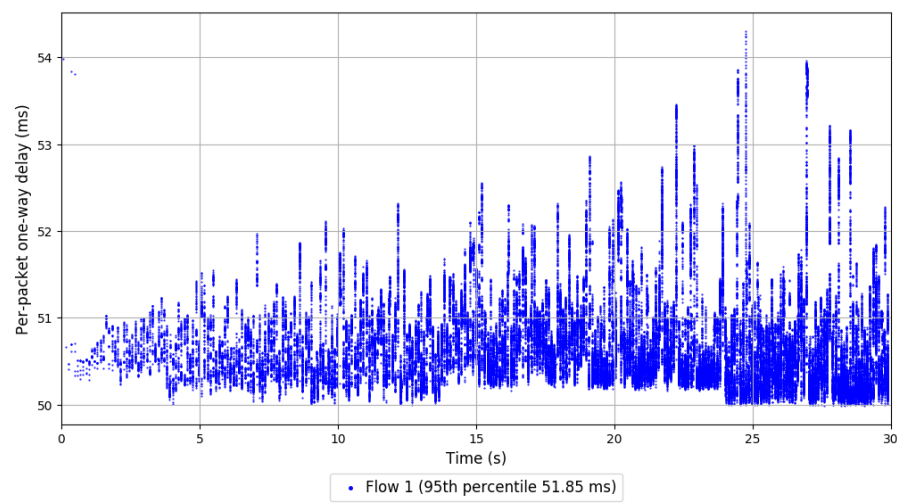
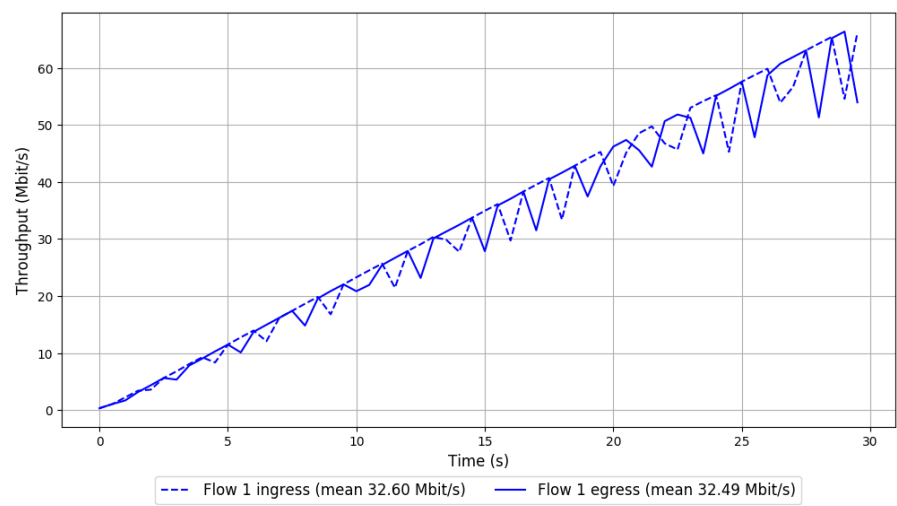
-- Flow 1:

Average throughput: 32.49 Mbit/s

95th percentile per-packet one-way delay: 51.853 ms

Loss rate: 0.70%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 12:59:29

End at: 2018-04-17 12:59:59

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 51.605 ms

Loss rate: 0.68%

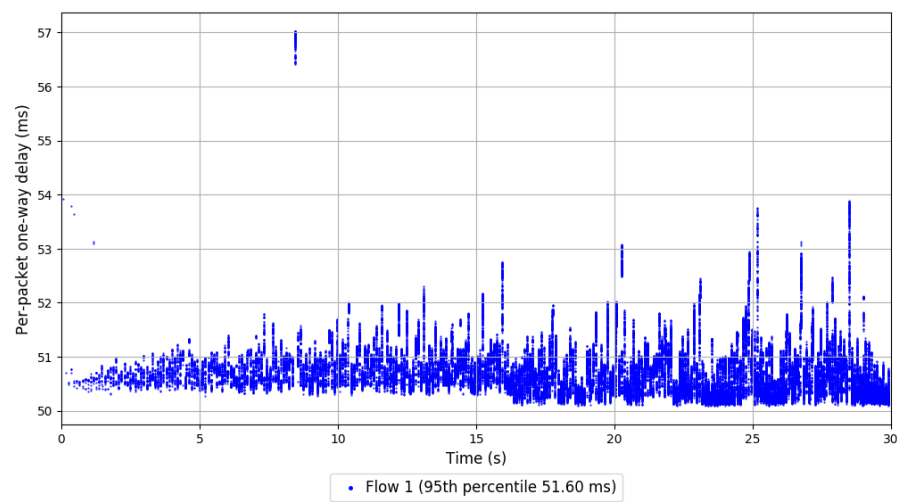
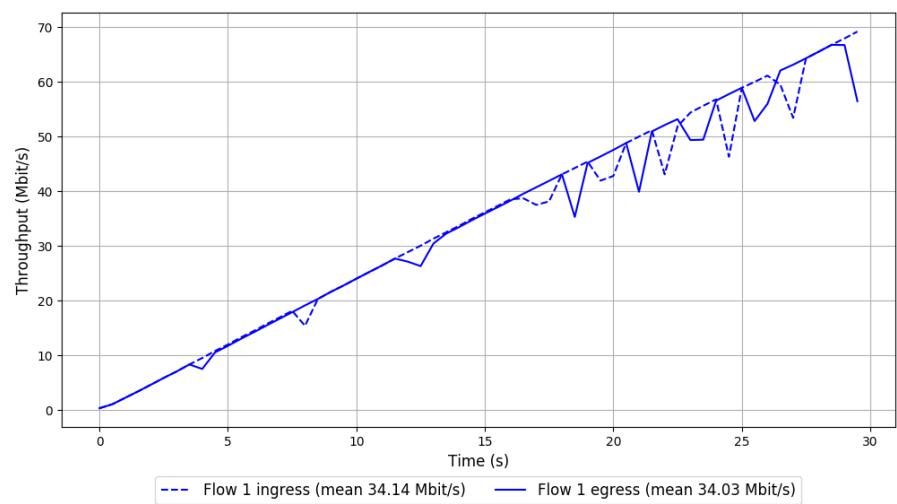
-- Flow 1:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 51.605 ms

Loss rate: 0.68%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 13:12:34

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

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.44 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 0.61%

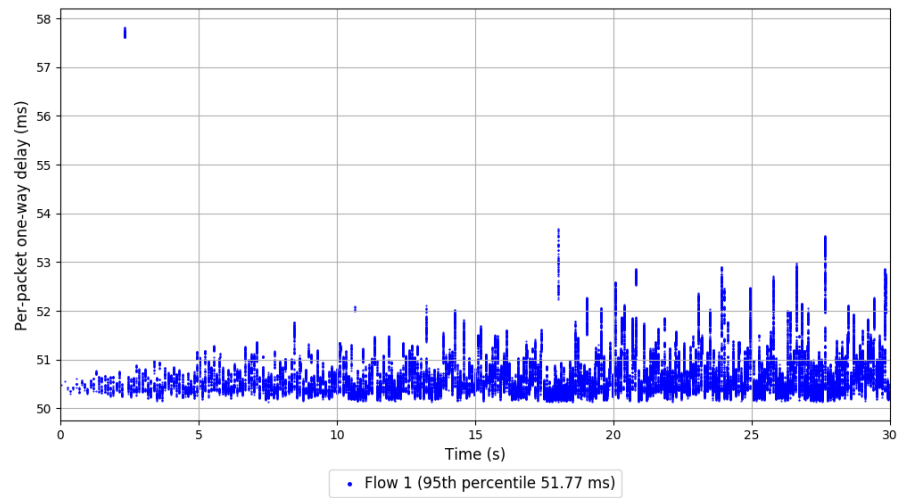
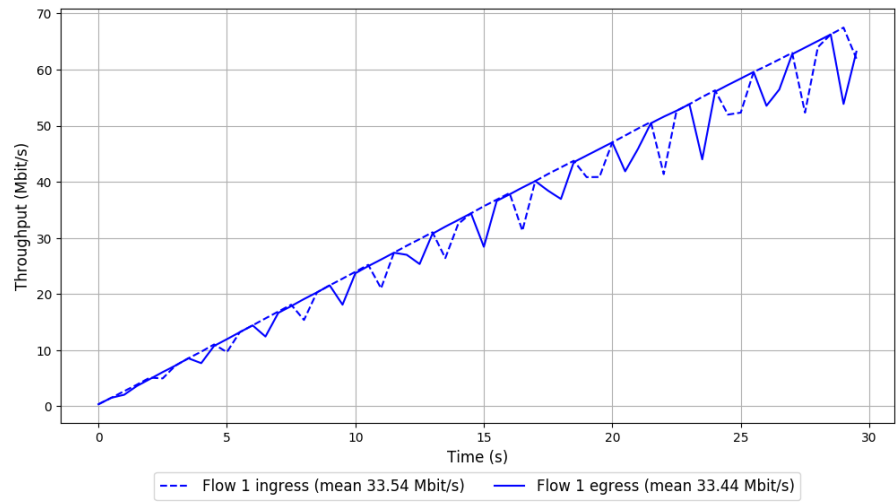
-- Flow 1:

Average throughput: 33.44 Mbit/s

95th percentile per-packet one-way delay: 51.770 ms

Loss rate: 0.61%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-17 13:25:19

End at: 2018-04-17 13:25:49

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 51.465 ms

Loss rate: 0.69%

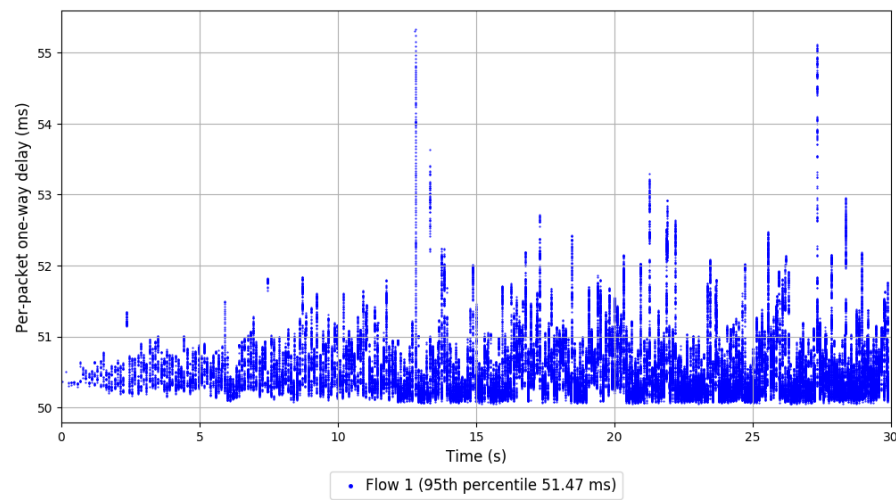
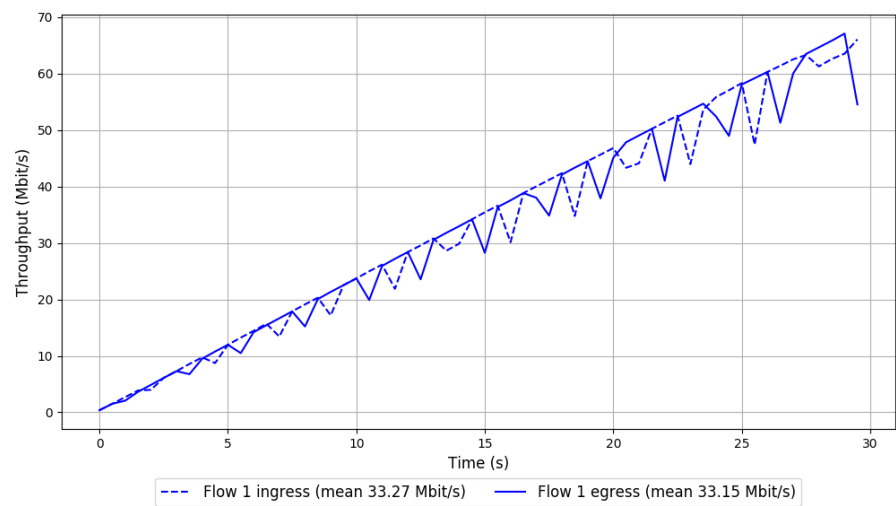
-- Flow 1:

Average throughput: 33.15 Mbit/s

95th percentile per-packet one-way delay: 51.465 ms

Loss rate: 0.69%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 13:38:07

End at: 2018-04-17 13:38:37

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.67%

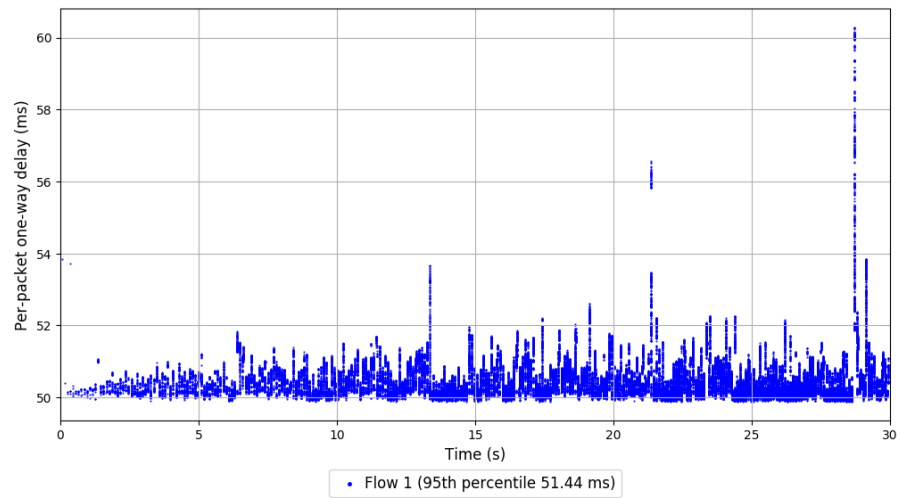
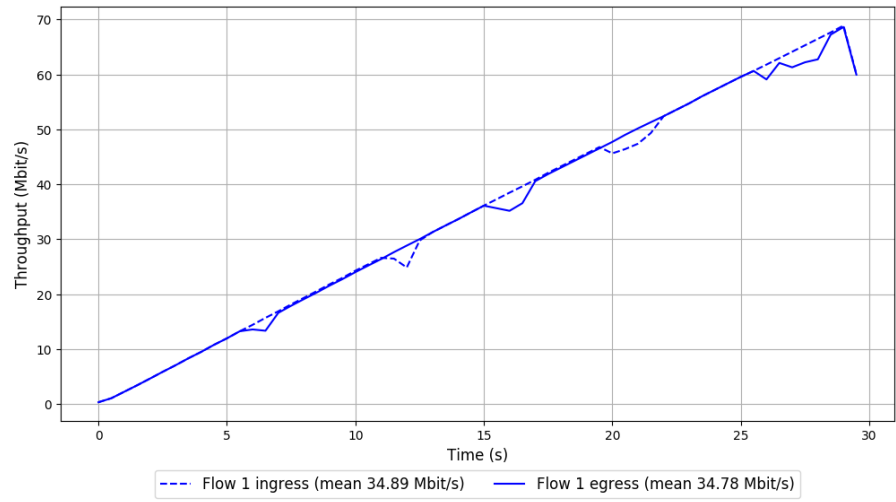
-- Flow 1:

Average throughput: 34.78 Mbit/s

95th percentile per-packet one-way delay: 51.442 ms

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 13:50:49

End at: 2018-04-17 13:51:19

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.14 Mbit/s

95th percentile per-packet one-way delay: 50.955 ms

Loss rate: 0.70%

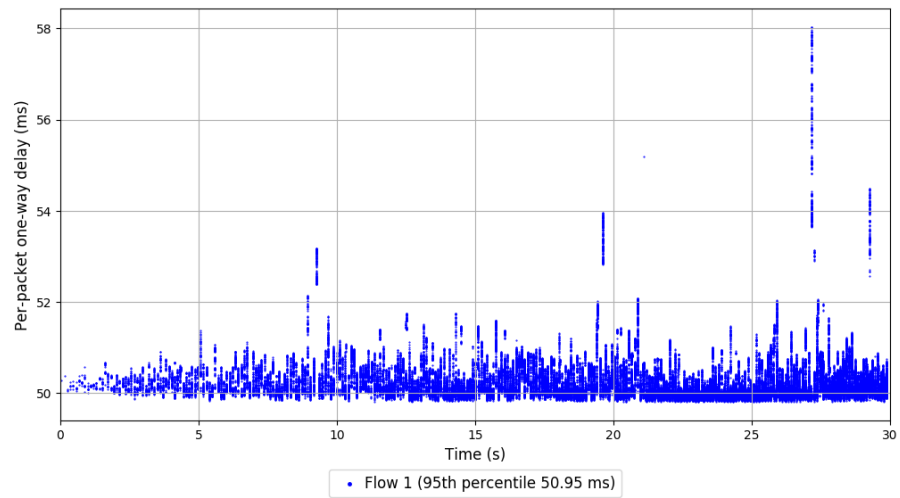
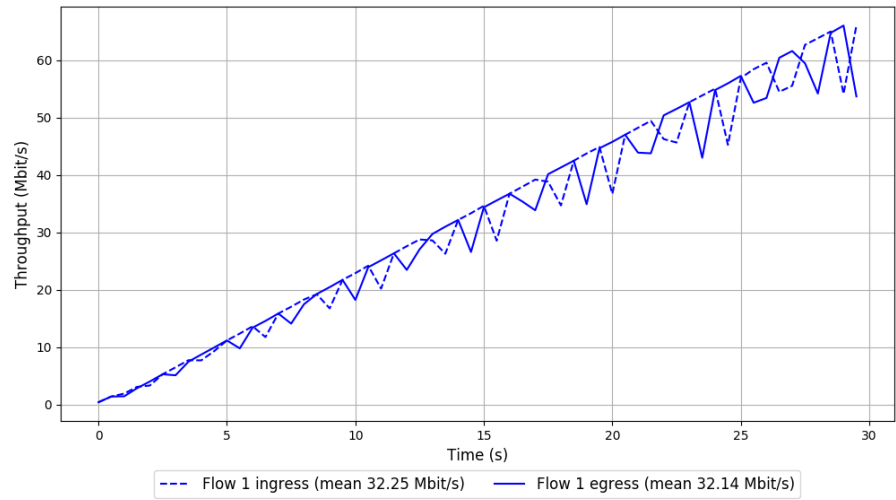
-- Flow 1:

Average throughput: 32.14 Mbit/s

95th percentile per-packet one-way delay: 50.955 ms

Loss rate: 0.70%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 14:03:28

End at: 2018-04-17 14:03:58

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 1.41%

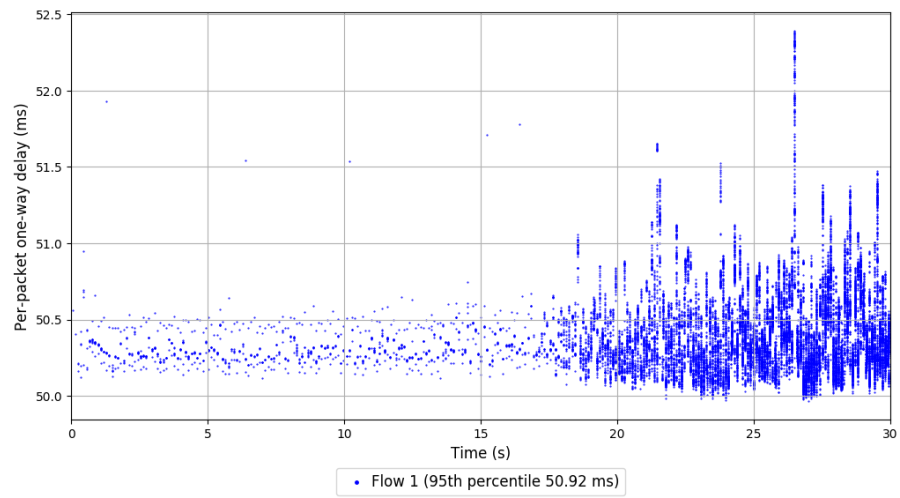
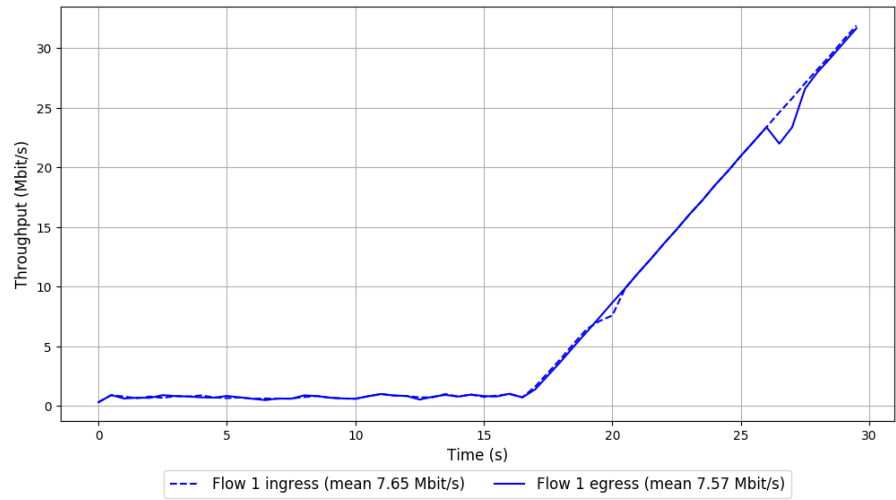
-- Flow 1:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 50.921 ms

Loss rate: 1.41%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 14:16:13

End at: 2018-04-17 14:16:43

Below is generated by plot.py at 2018-04-17 16:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 51.660 ms

Loss rate: 0.70%

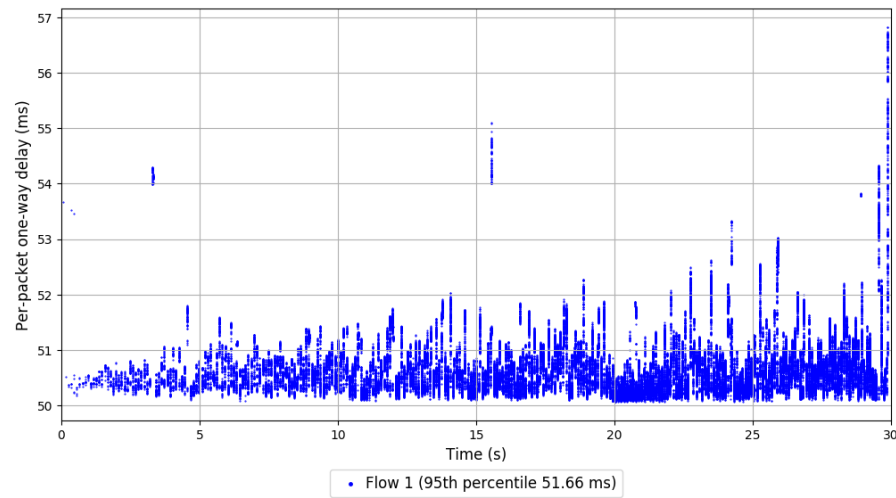
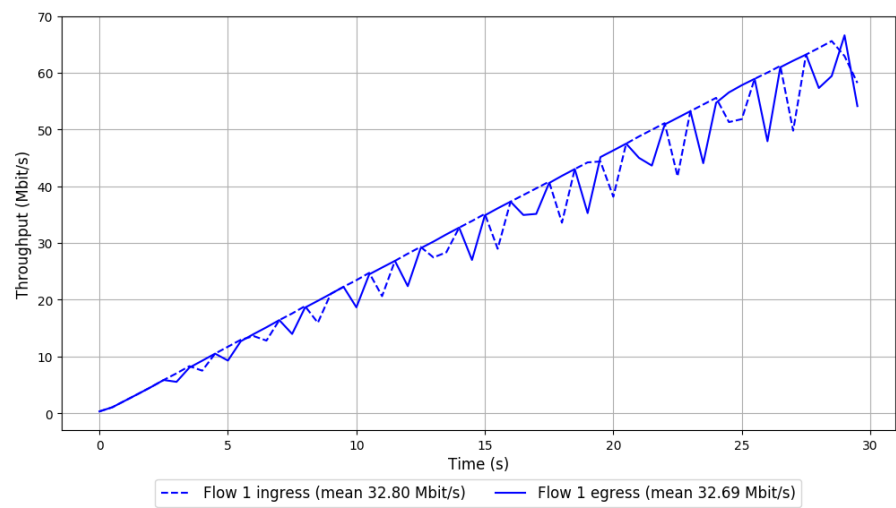
-- Flow 1:

Average throughput: 32.69 Mbit/s

95th percentile per-packet one-way delay: 51.660 ms

Loss rate: 0.70%

Run 10: Report of LEDBAT — Data Link

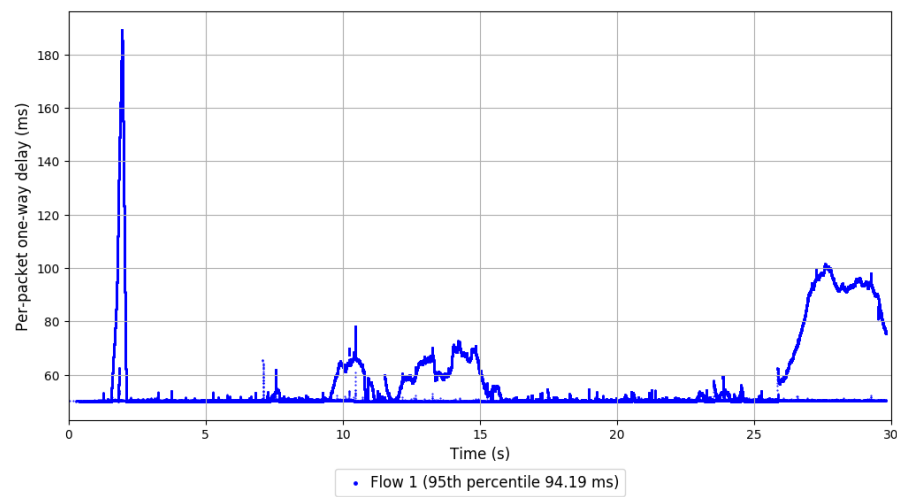
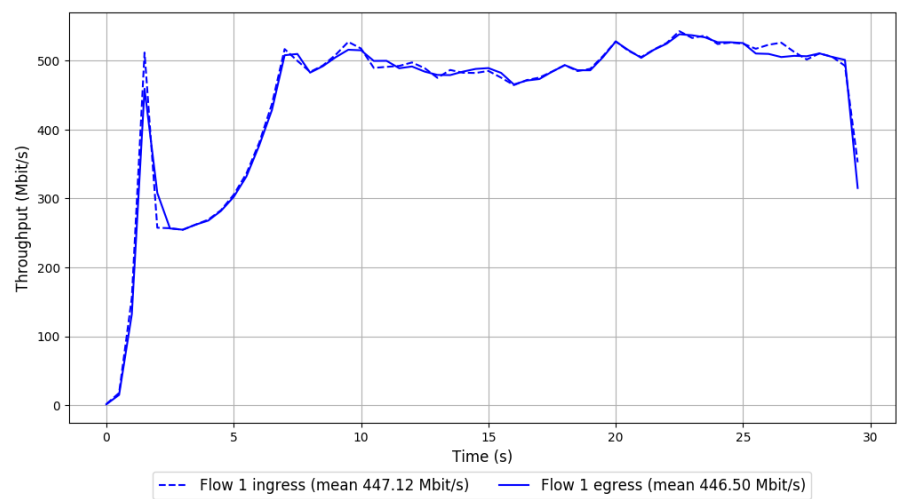


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 12:22:05
End at: 2018-04-17 12:22:35

# Below is generated by plot.py at 2018-04-17 16:55:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 446.50 Mbit/s
95th percentile per-packet one-way delay: 94.191 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 446.50 Mbit/s
95th percentile per-packet one-way delay: 94.191 ms
Loss rate: 0.48%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 12:34:44

End at: 2018-04-17 12:35:14

Below is generated by plot.py at 2018-04-17 16:55:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.72 Mbit/s

95th percentile per-packet one-way delay: 132.659 ms

Loss rate: 0.41%

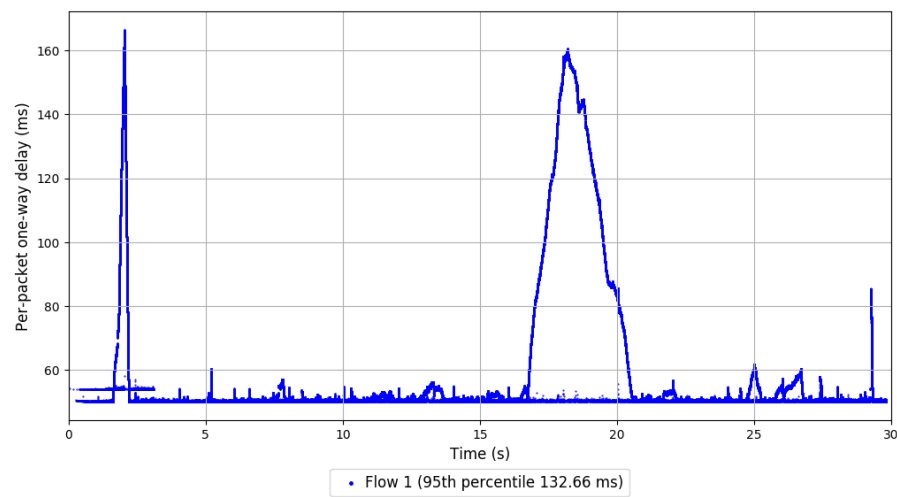
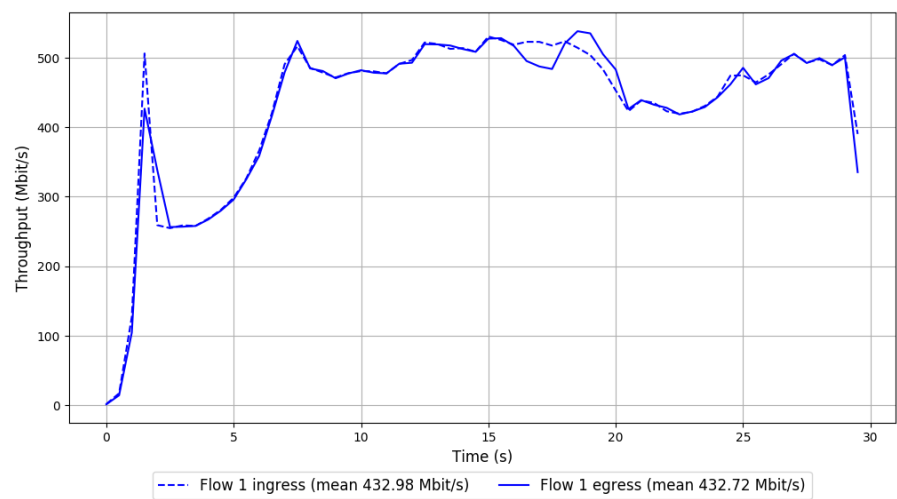
-- Flow 1:

Average throughput: 432.72 Mbit/s

95th percentile per-packet one-way delay: 132.659 ms

Loss rate: 0.41%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 12:47:20

End at: 2018-04-17 12:47:50

Below is generated by plot.py at 2018-04-17 16:55:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.78 Mbit/s

95th percentile per-packet one-way delay: 178.853 ms

Loss rate: 1.27%

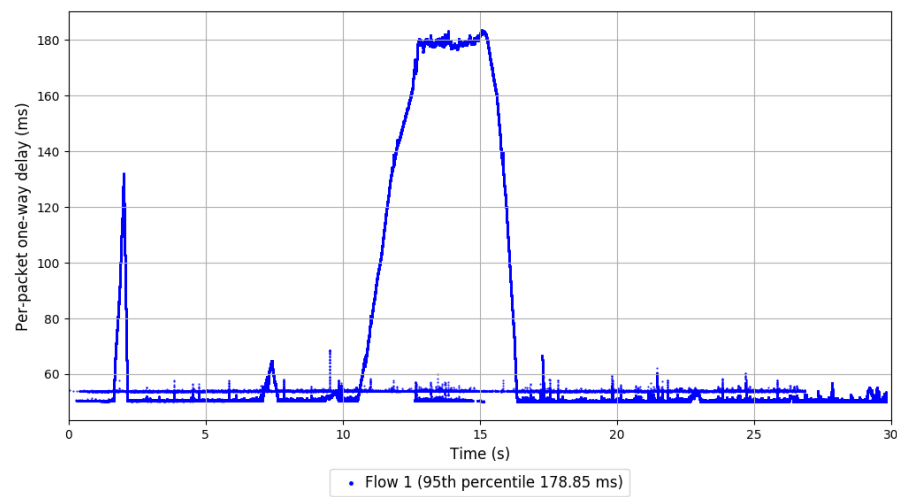
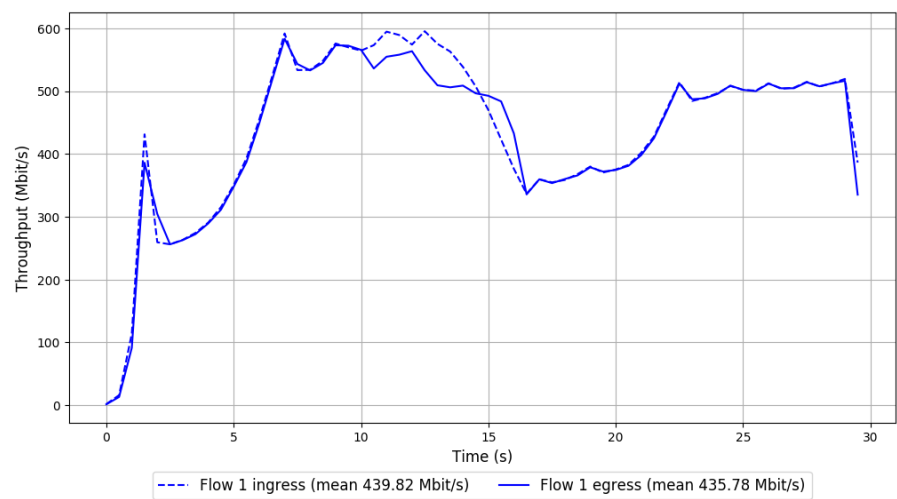
-- Flow 1:

Average throughput: 435.78 Mbit/s

95th percentile per-packet one-way delay: 178.853 ms

Loss rate: 1.27%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 13:00:08

End at: 2018-04-17 13:00:38

Below is generated by plot.py at 2018-04-17 16:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.24 Mbit/s

95th percentile per-packet one-way delay: 176.416 ms

Loss rate: 0.88%

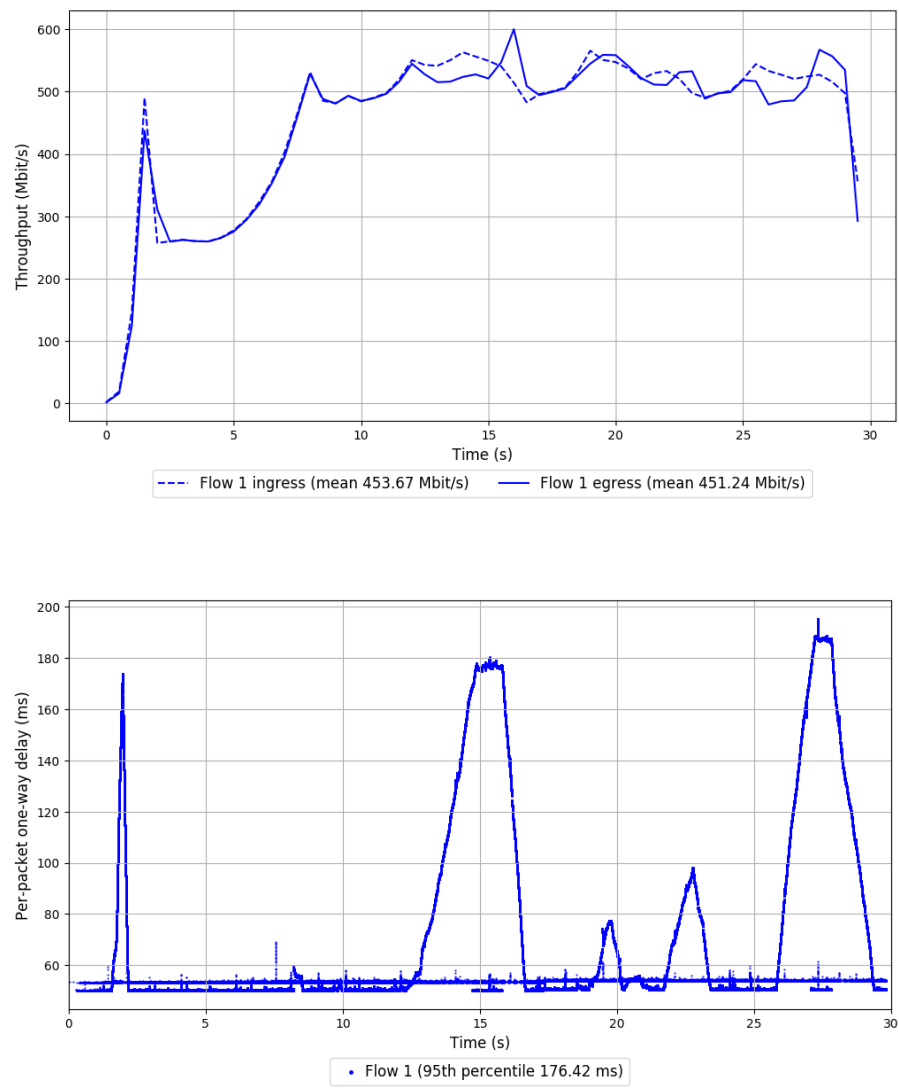
-- Flow 1:

Average throughput: 451.24 Mbit/s

95th percentile per-packet one-way delay: 176.416 ms

Loss rate: 0.88%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

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

End at: 2018-04-17 13:13:43

Below is generated by plot.py at 2018-04-17 16:55:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 436.06 Mbit/s

95th percentile per-packet one-way delay: 188.728 ms

Loss rate: 2.13%

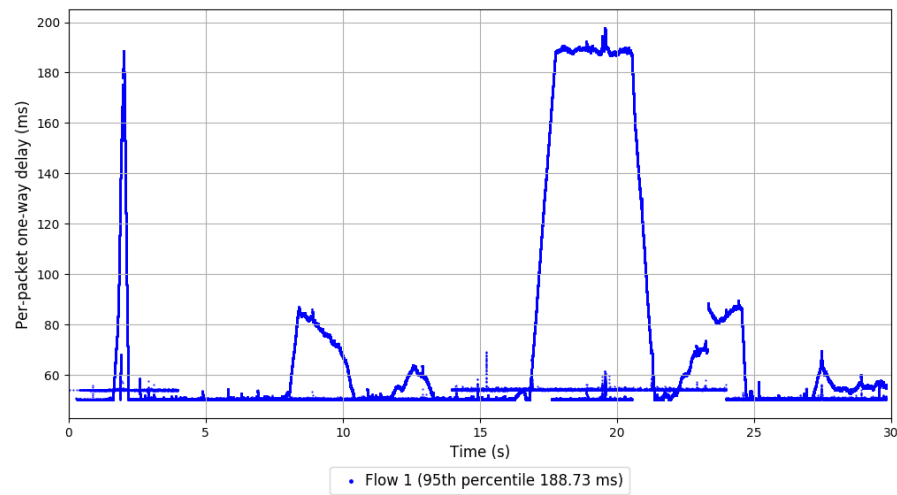
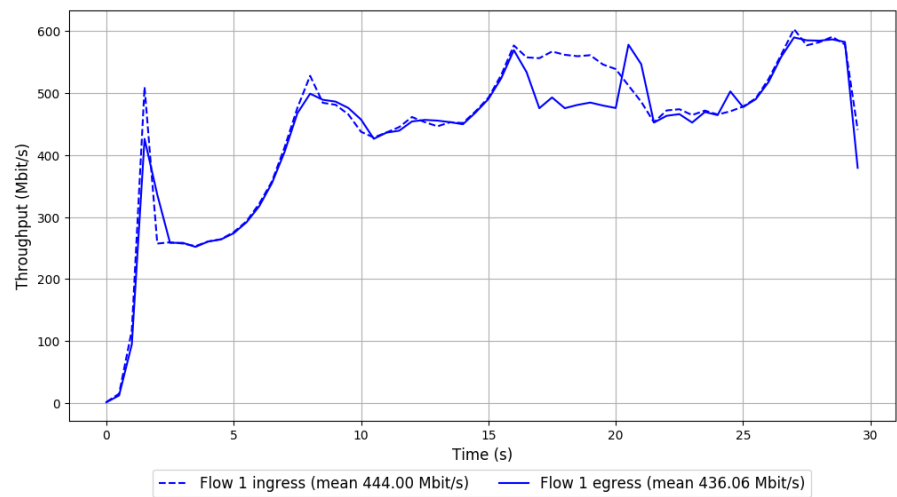
-- Flow 1:

Average throughput: 436.06 Mbit/s

95th percentile per-packet one-way delay: 188.728 ms

Loss rate: 2.13%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 13:25:58

End at: 2018-04-17 13:26:28

Below is generated by plot.py at 2018-04-17 16:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 453.24 Mbit/s

95th percentile per-packet one-way delay: 157.233 ms

Loss rate: 0.49%

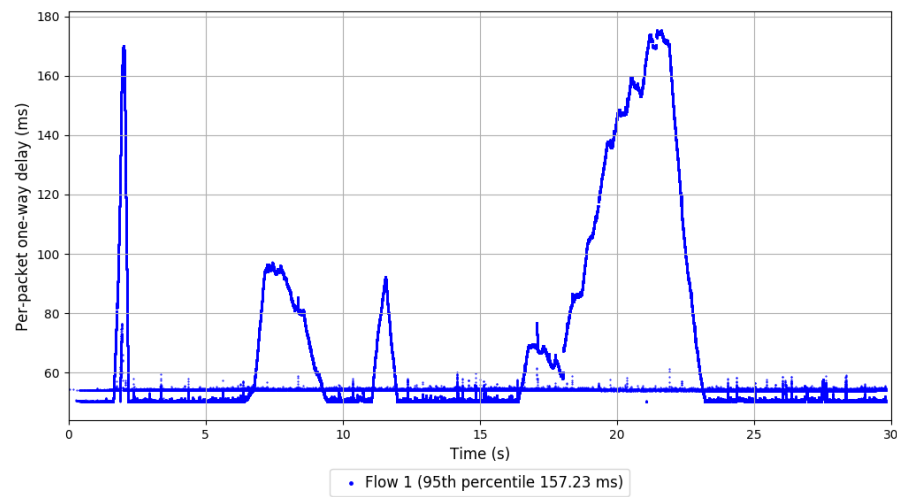
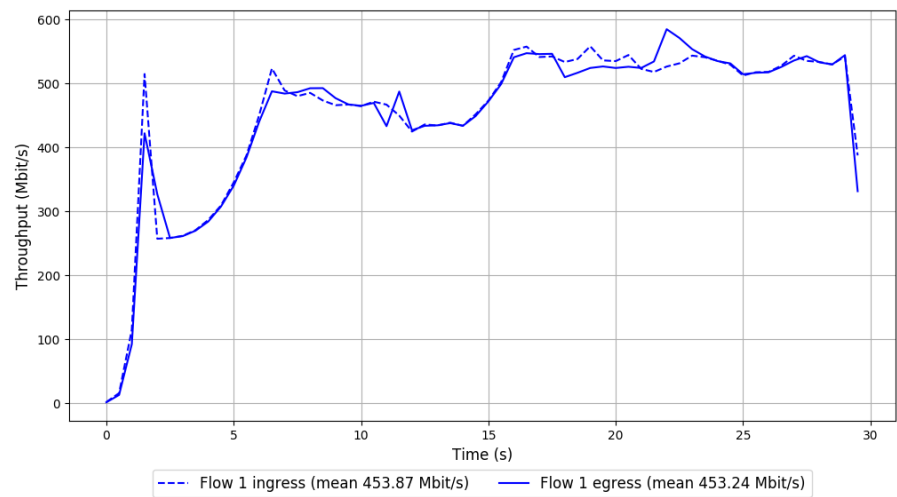
-- Flow 1:

Average throughput: 453.24 Mbit/s

95th percentile per-packet one-way delay: 157.233 ms

Loss rate: 0.49%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 13:38:46

End at: 2018-04-17 13:39:16

Below is generated by plot.py at 2018-04-17 16:56:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.59 Mbit/s

95th percentile per-packet one-way delay: 194.227 ms

Loss rate: 1.47%

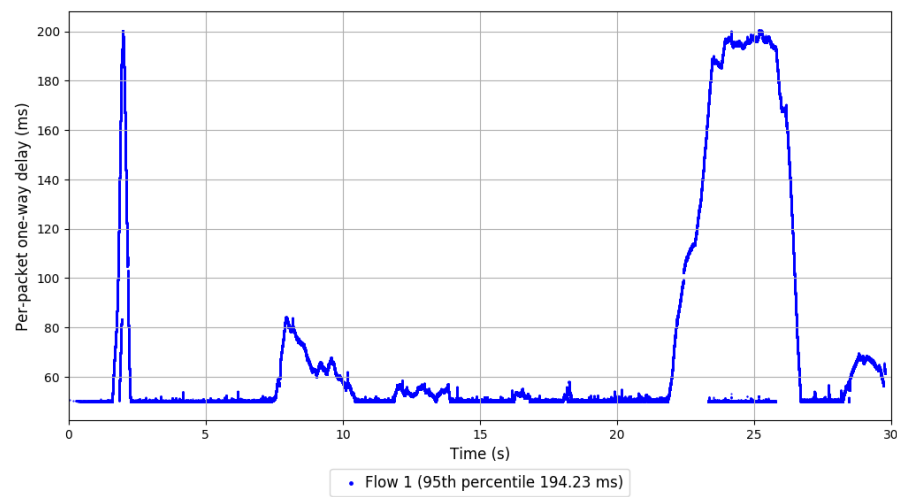
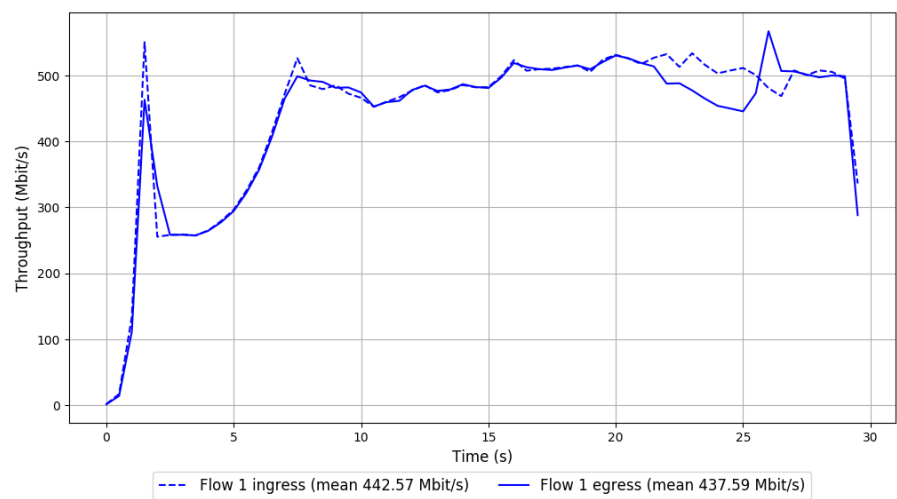
-- Flow 1:

Average throughput: 437.59 Mbit/s

95th percentile per-packet one-way delay: 194.227 ms

Loss rate: 1.47%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 13:51:28

End at: 2018-04-17 13:51:58

Below is generated by plot.py at 2018-04-17 16:57:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.48 Mbit/s

95th percentile per-packet one-way delay: 168.372 ms

Loss rate: 0.57%

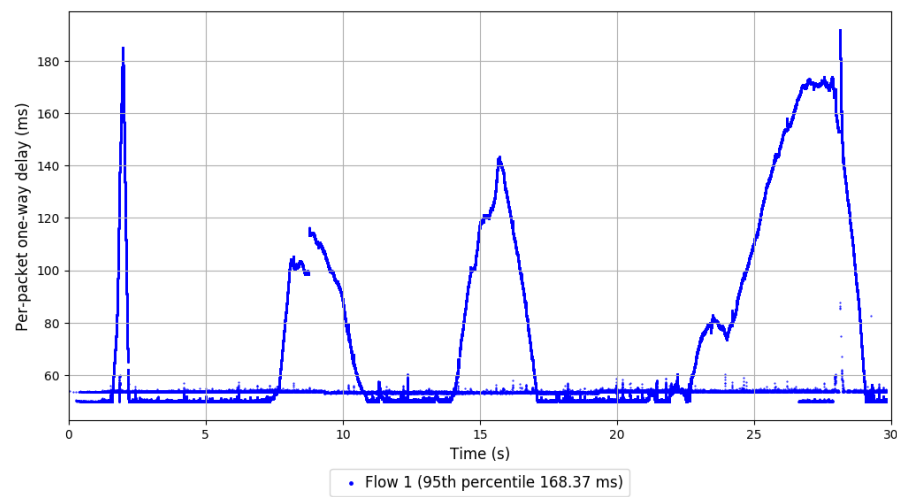
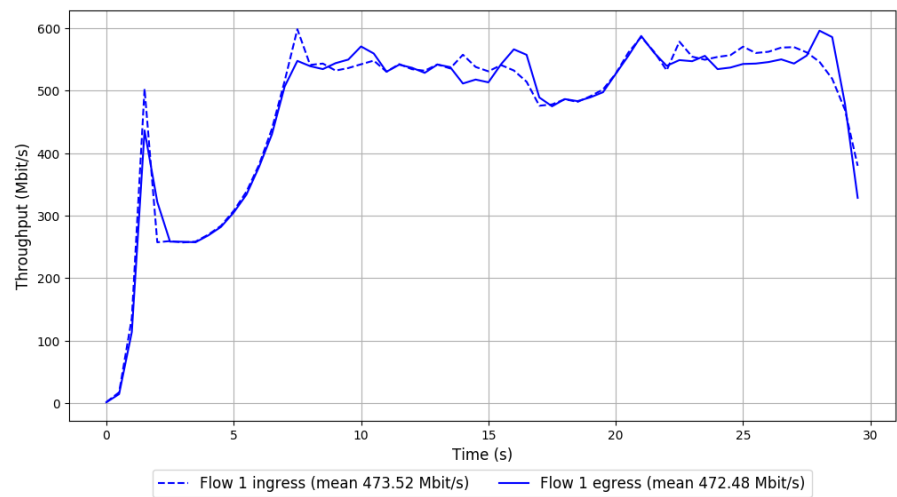
-- Flow 1:

Average throughput: 472.48 Mbit/s

95th percentile per-packet one-way delay: 168.372 ms

Loss rate: 0.57%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 14:04:05

End at: 2018-04-17 14:04:35

Below is generated by plot.py at 2018-04-17 17:03:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.32 Mbit/s

95th percentile per-packet one-way delay: 177.202 ms

Loss rate: 0.58%

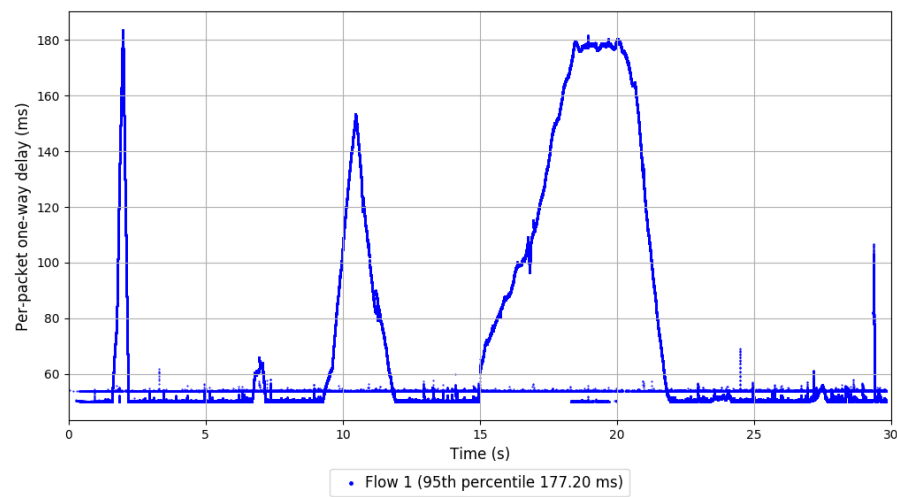
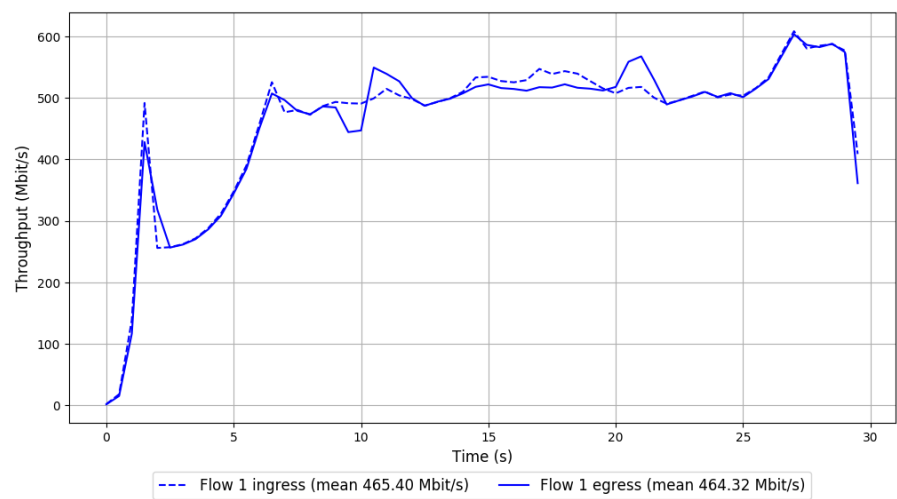
-- Flow 1:

Average throughput: 464.32 Mbit/s

95th percentile per-packet one-way delay: 177.202 ms

Loss rate: 0.58%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 14:16:52

End at: 2018-04-17 14:17:22

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.48 Mbit/s

95th percentile per-packet one-way delay: 170.665 ms

Loss rate: 2.14%

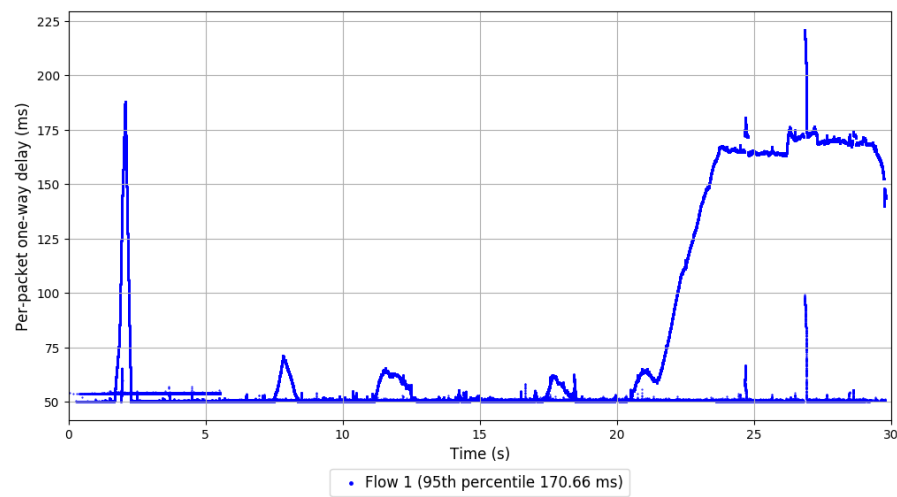
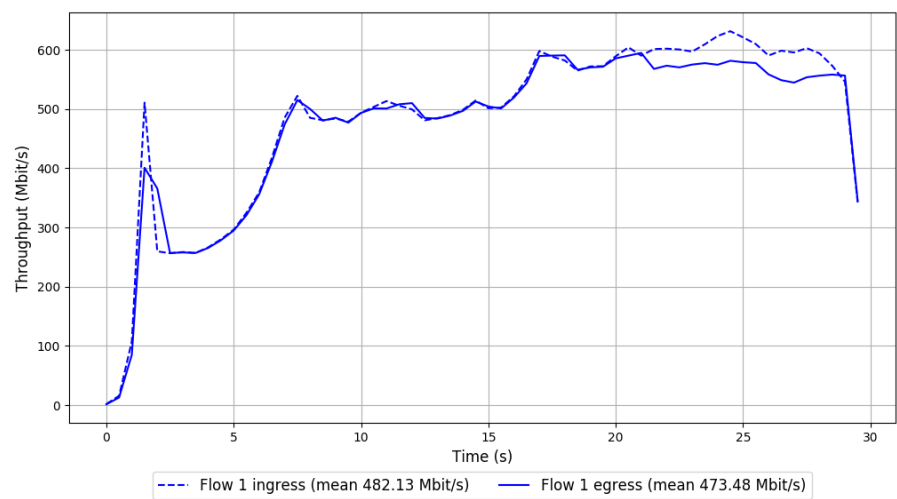
-- Flow 1:

Average throughput: 473.48 Mbit/s

95th percentile per-packet one-way delay: 170.665 ms

Loss rate: 2.14%

Run 10: Report of PCC-Allegro — Data Link

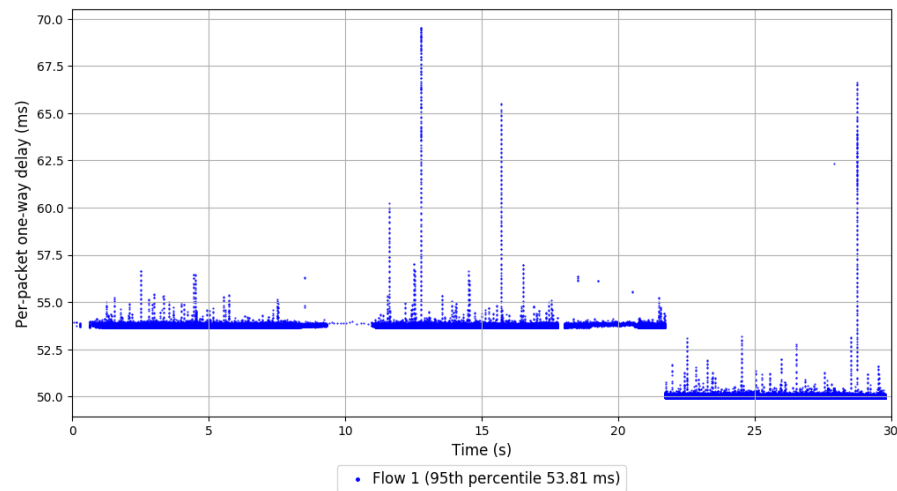
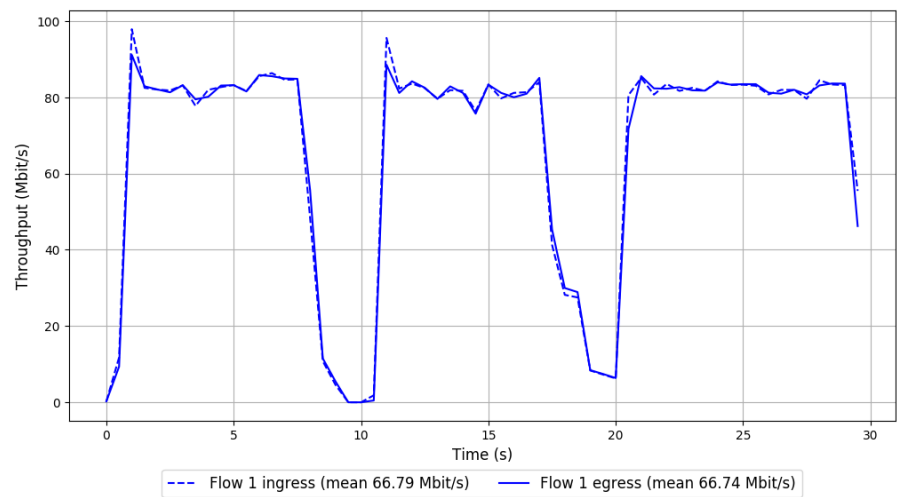


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 12:20:04
End at: 2018-04-17 12:20:34

# Below is generated by plot.py at 2018-04-17 17:03:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 66.74 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 0.43%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 12:32:42

End at: 2018-04-17 12:33:12

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 53.964 ms

Loss rate: 0.52%

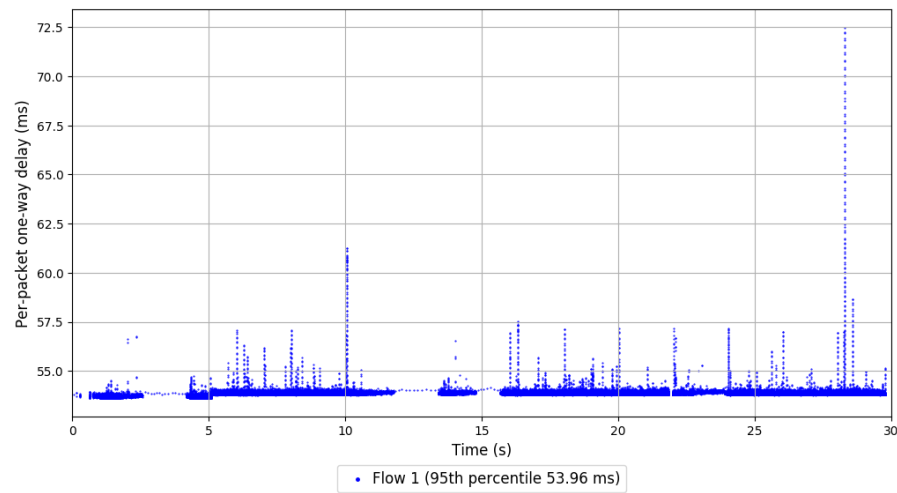
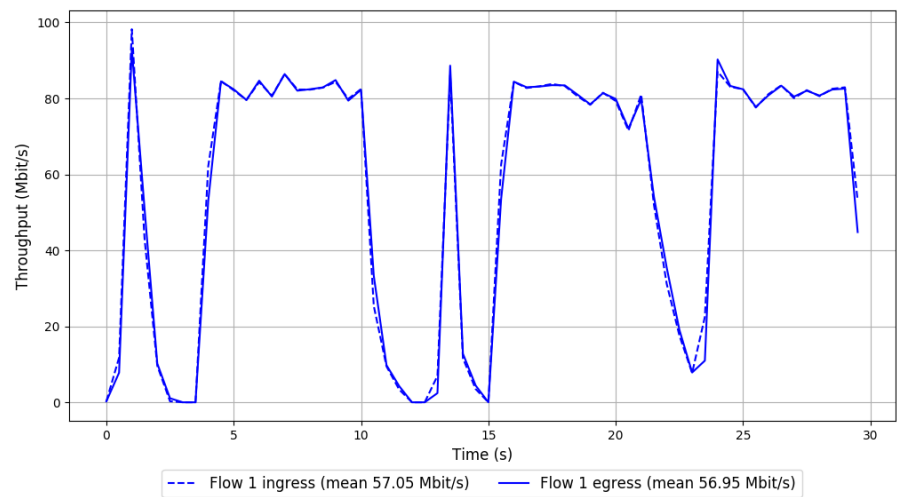
-- Flow 1:

Average throughput: 56.95 Mbit/s

95th percentile per-packet one-way delay: 53.964 ms

Loss rate: 0.52%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 12:45:18

End at: 2018-04-17 12:45:48

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 50.440 ms

Loss rate: 0.38%

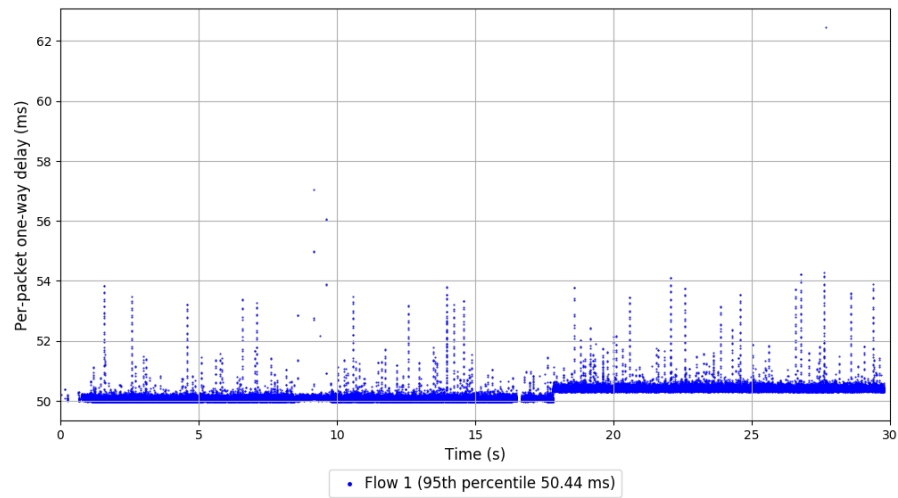
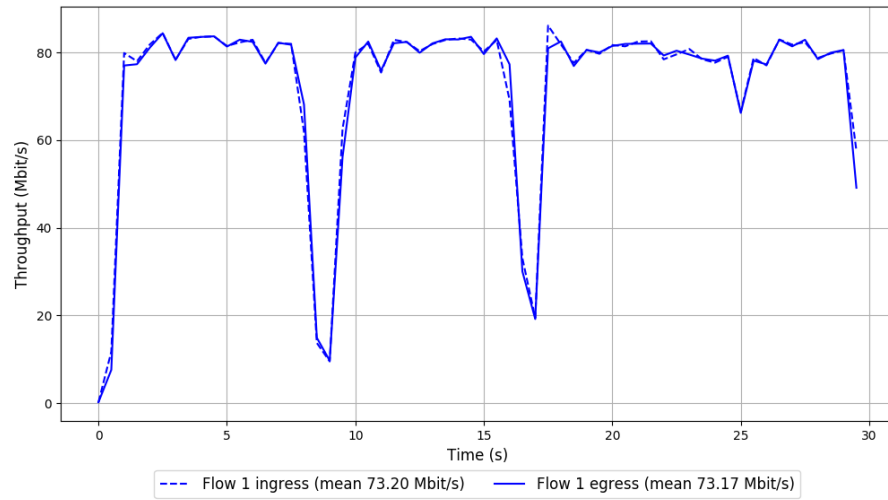
-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 50.440 ms

Loss rate: 0.38%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 12:58:06

End at: 2018-04-17 12:58:36

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.89 Mbit/s

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

Loss rate: 0.51%

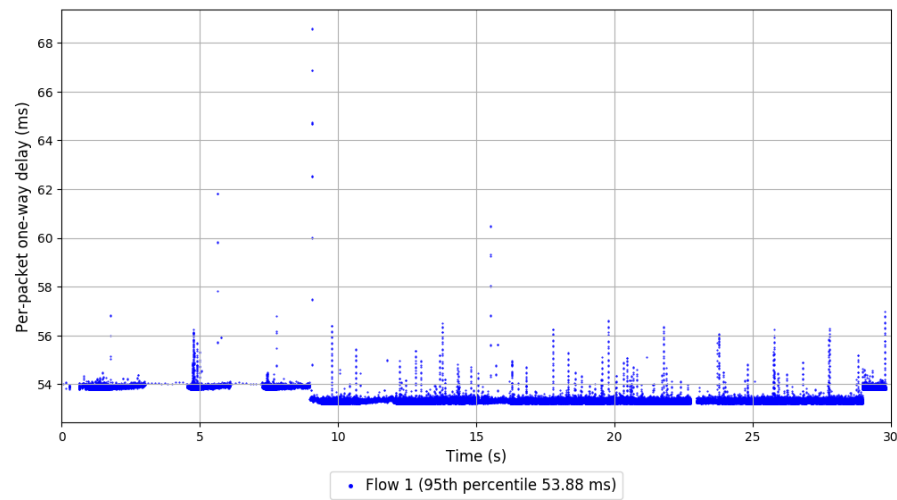
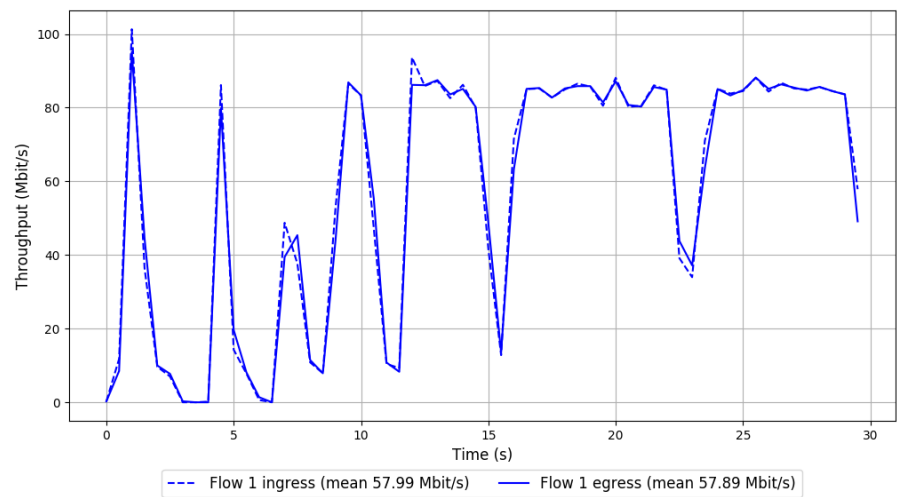
-- Flow 1:

Average throughput: 57.89 Mbit/s

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

Loss rate: 0.51%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 13:11:09

End at: 2018-04-17 13:11:39

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 53.962 ms

Loss rate: 0.38%

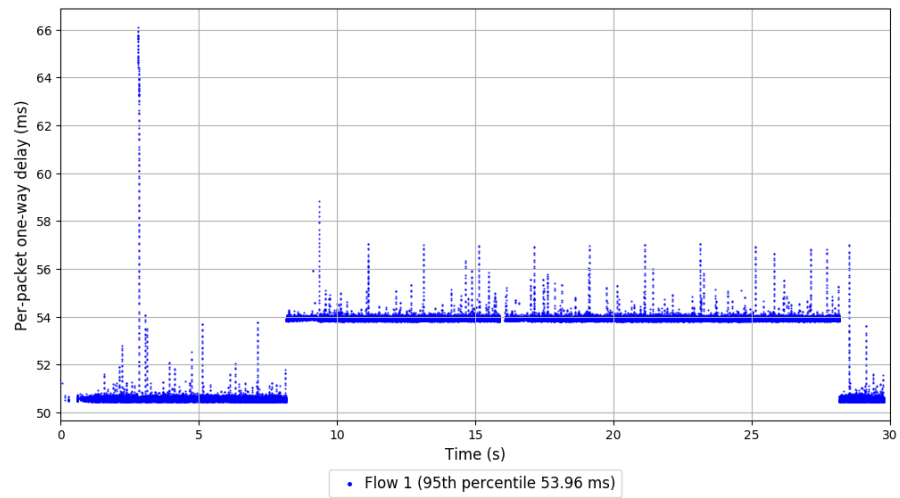
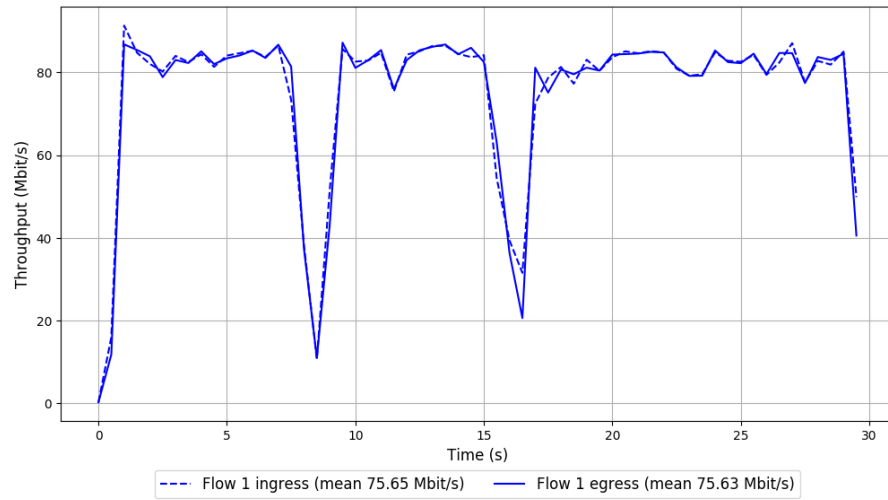
-- Flow 1:

Average throughput: 75.63 Mbit/s

95th percentile per-packet one-way delay: 53.962 ms

Loss rate: 0.38%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 13:23:53

End at: 2018-04-17 13:24:23

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.57 Mbit/s

95th percentile per-packet one-way delay: 50.606 ms

Loss rate: 0.37%

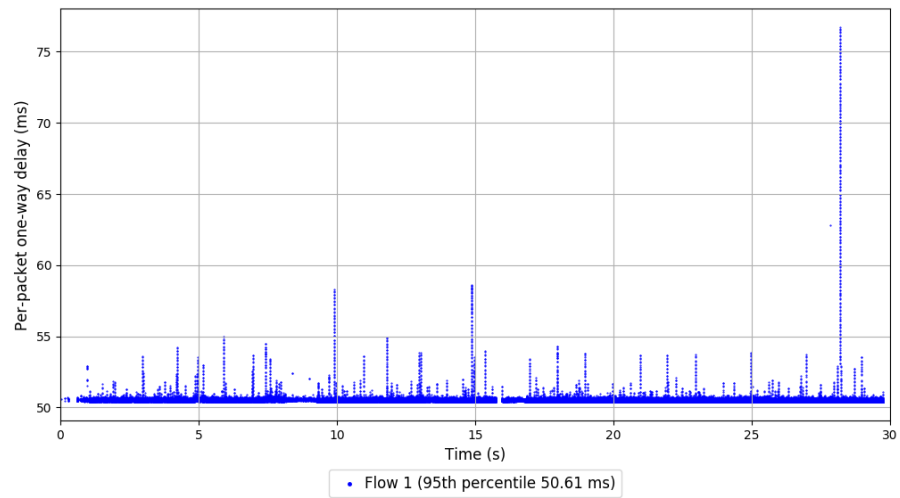
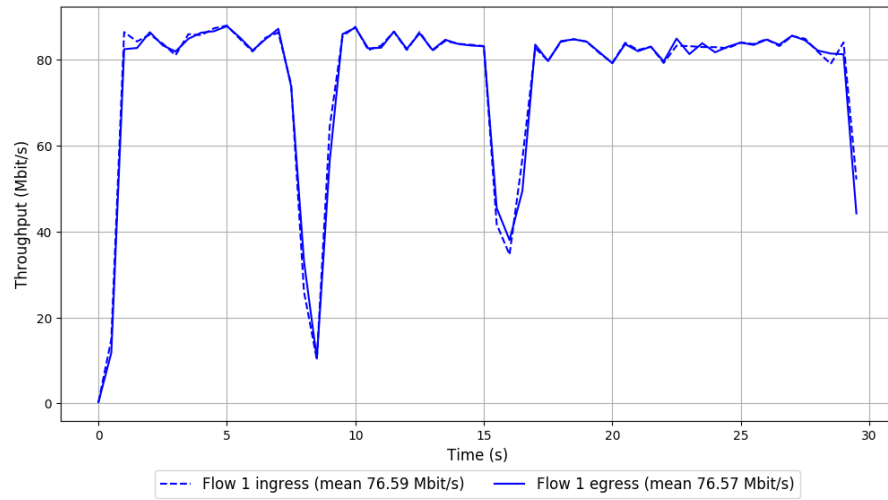
-- Flow 1:

Average throughput: 76.57 Mbit/s

95th percentile per-packet one-way delay: 50.606 ms

Loss rate: 0.37%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 13:36:42

End at: 2018-04-17 13:37:12

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 50.067 ms

Loss rate: 0.39%

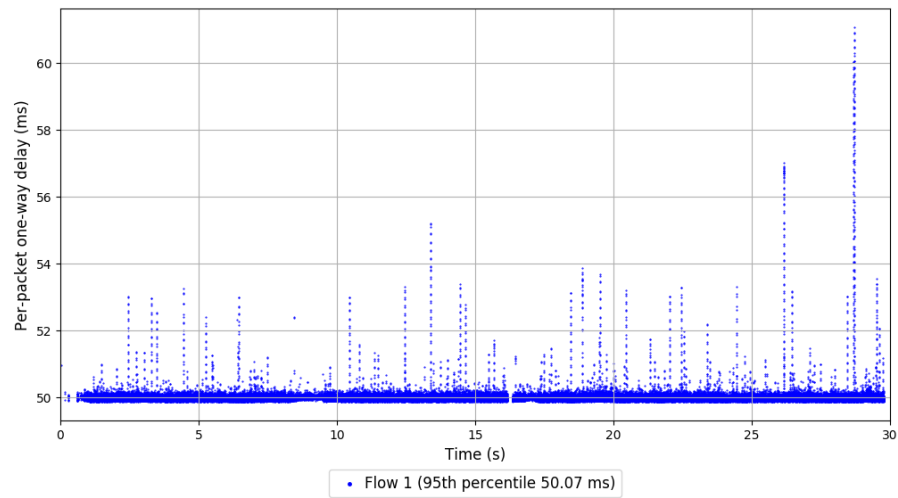
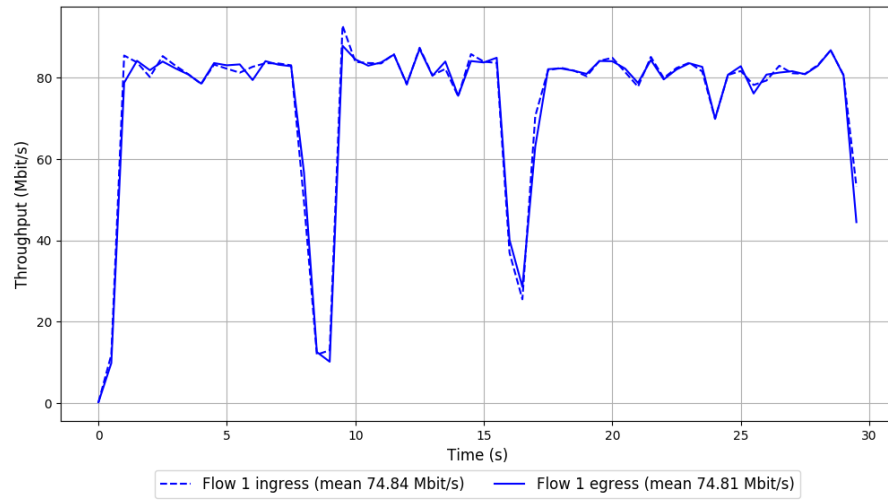
-- Flow 1:

Average throughput: 74.81 Mbit/s

95th percentile per-packet one-way delay: 50.067 ms

Loss rate: 0.39%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 13:49:26

End at: 2018-04-17 13:49:56

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.60 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.47%

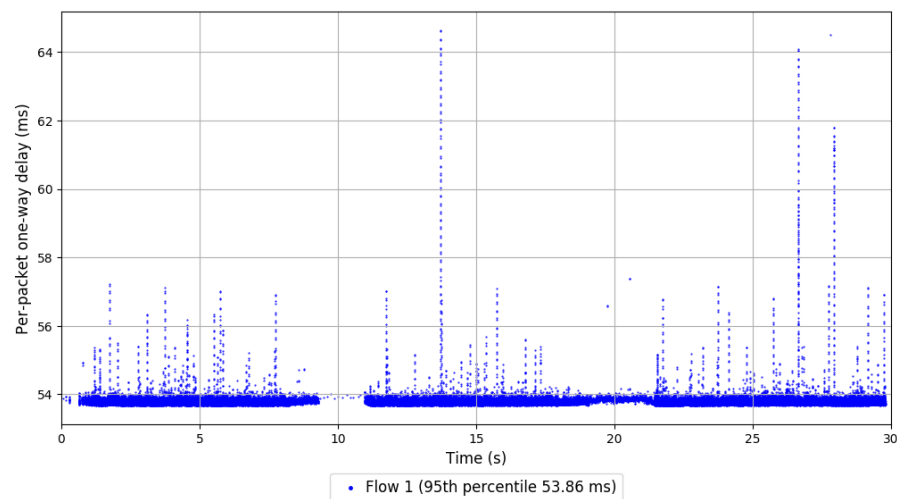
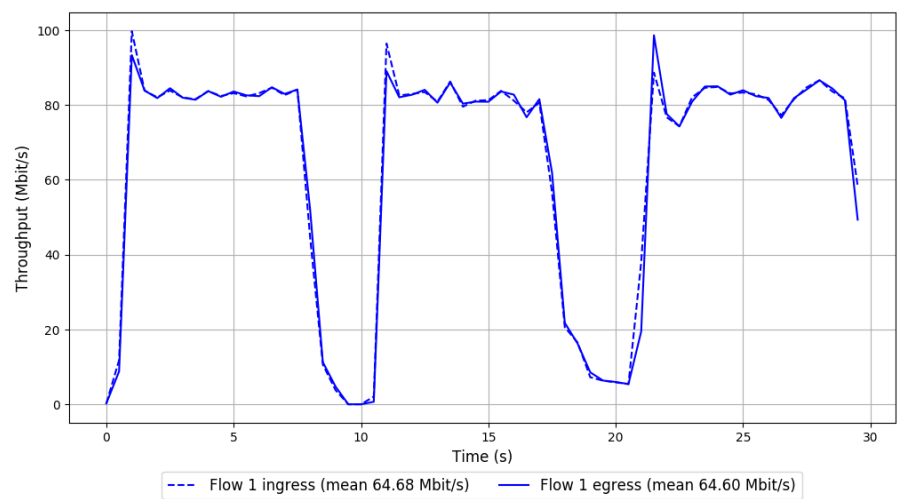
-- Flow 1:

Average throughput: 64.60 Mbit/s

95th percentile per-packet one-way delay: 53.858 ms

Loss rate: 0.47%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 14:02:03

End at: 2018-04-17 14:02:33

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 50.123 ms

Loss rate: 0.45%

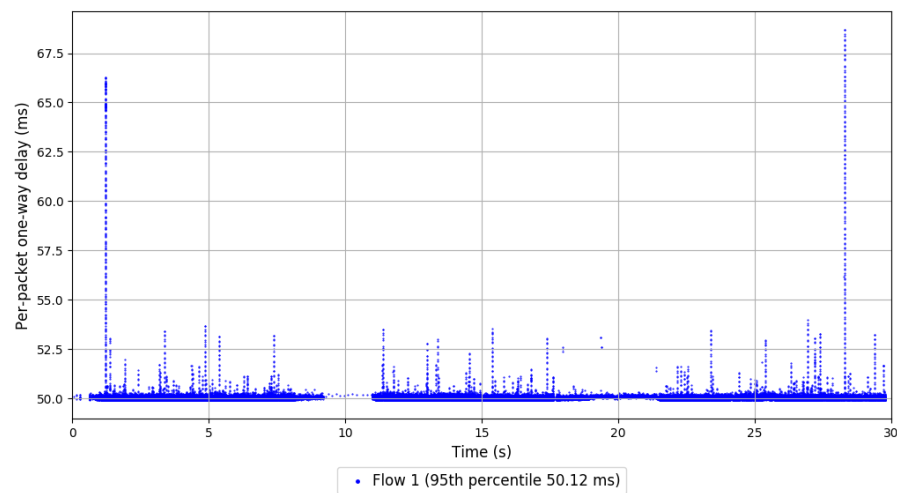
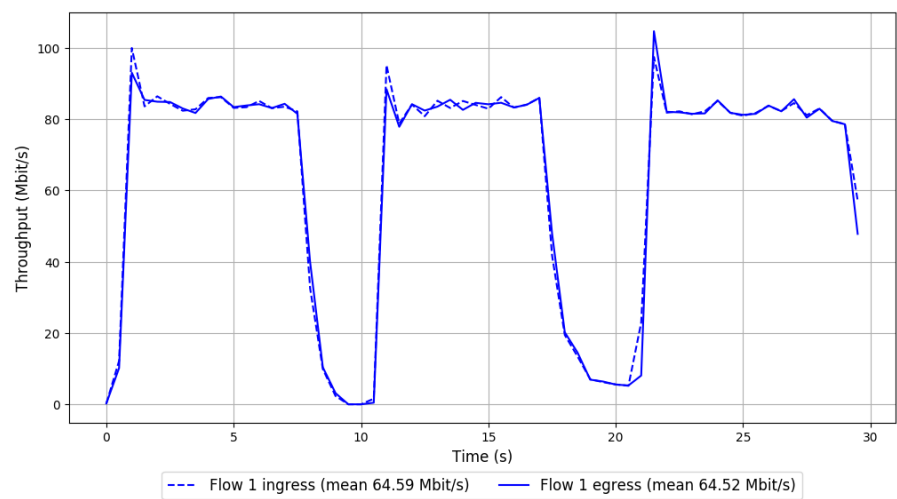
-- Flow 1:

Average throughput: 64.52 Mbit/s

95th percentile per-packet one-way delay: 50.123 ms

Loss rate: 0.45%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 14:14:47

End at: 2018-04-17 14:15:17

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.30 Mbit/s

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

Loss rate: 0.39%

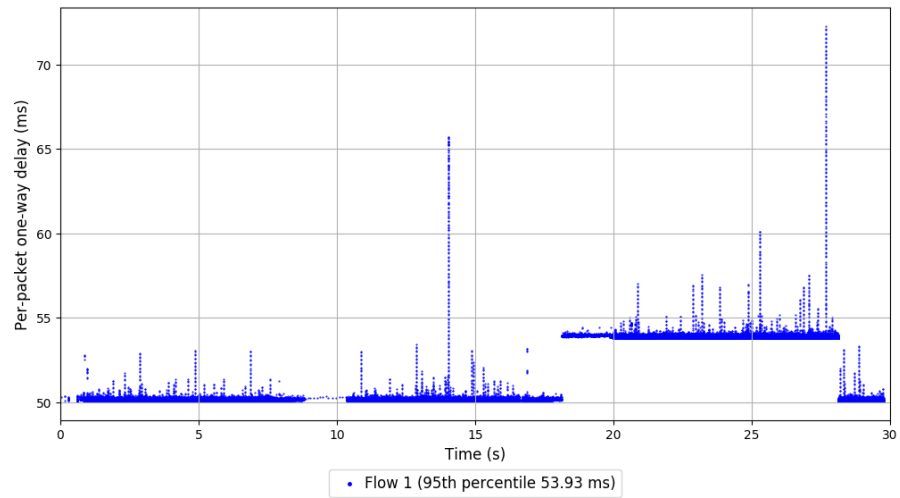
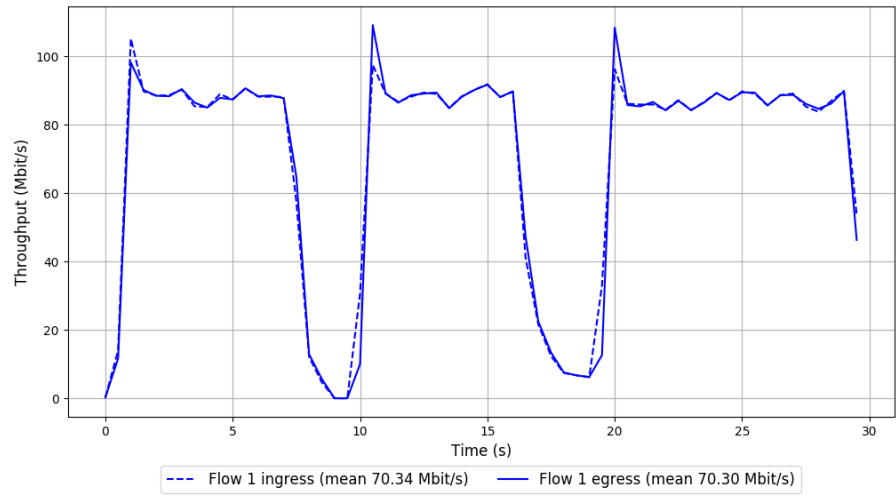
-- Flow 1:

Average throughput: 70.30 Mbit/s

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

Loss rate: 0.39%

Run 10: Report of QUIC Cubic — Data Link

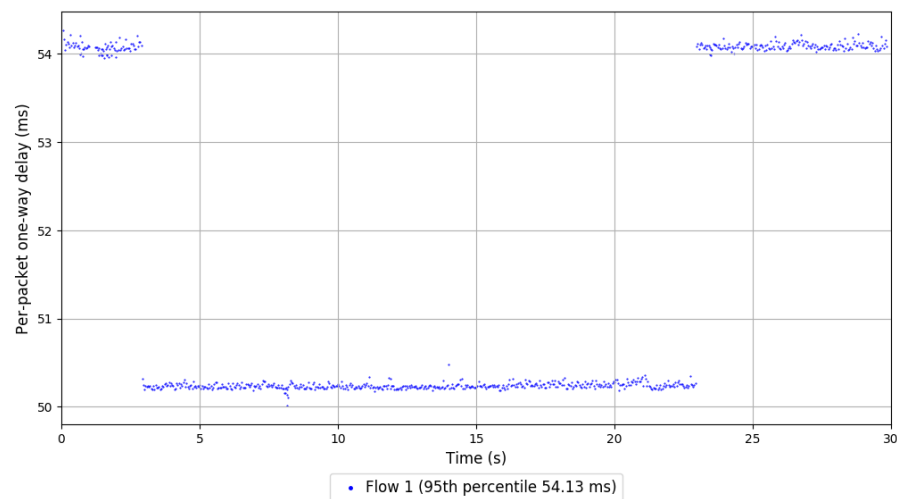
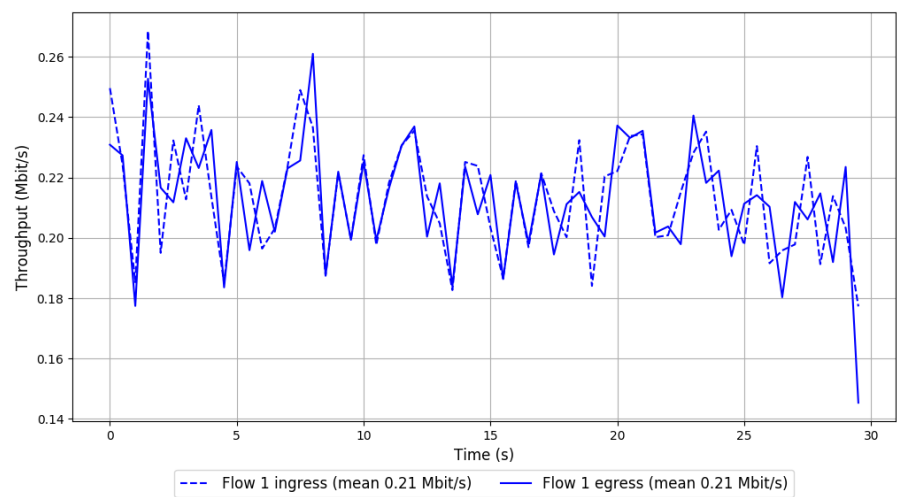


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 12:23:44
End at: 2018-04-17 12:24:14

# Below is generated by plot.py at 2018-04-17 17:03:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.127 ms
Loss rate: 0.37%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-17 12:36:23

End at: 2018-04-17 12:36:53

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.974 ms

Loss rate: 0.38%

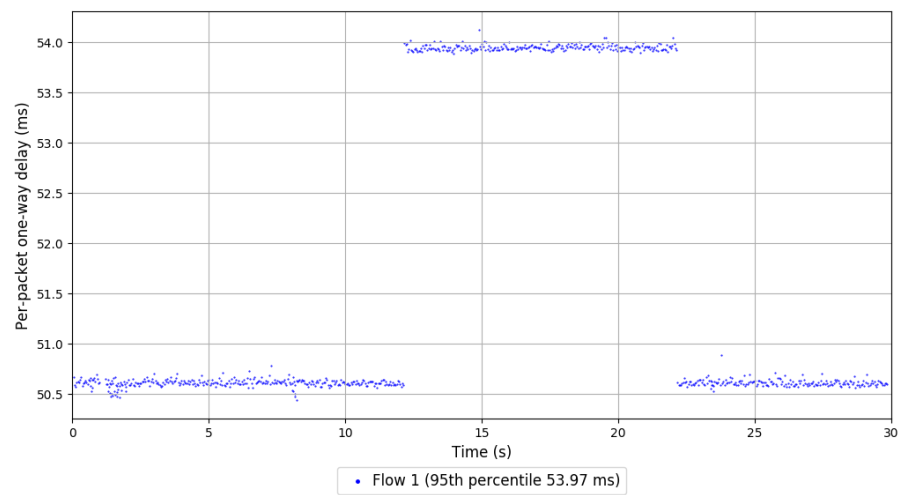
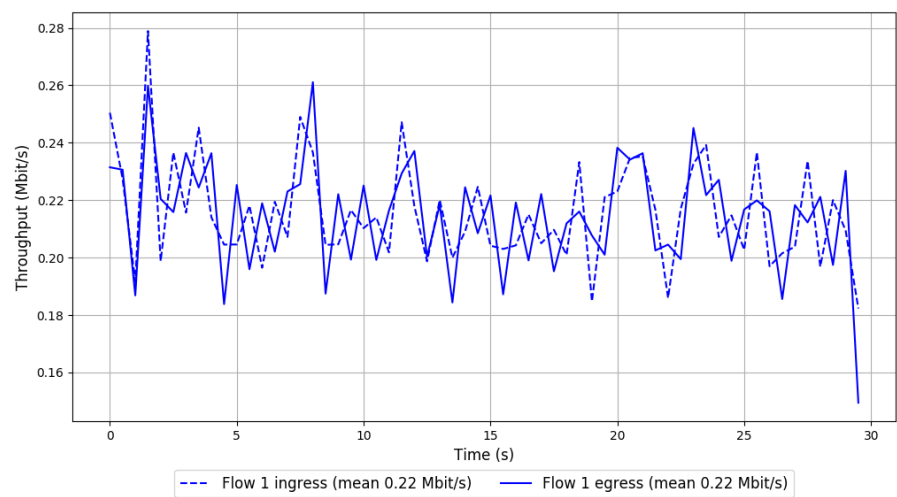
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.974 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 12:49:00

End at: 2018-04-17 12:49:30

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.330 ms

Loss rate: 0.25%

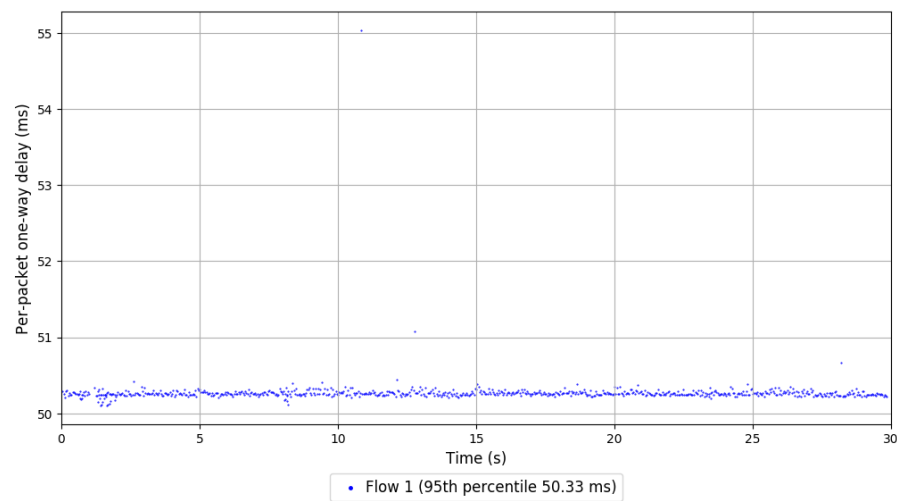
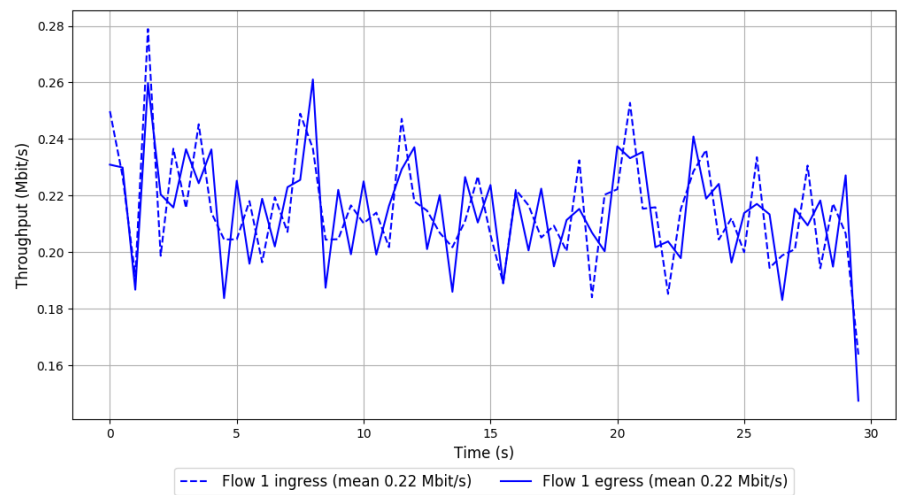
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.330 ms

Loss rate: 0.25%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-17 13:01:48

End at: 2018-04-17 13:02:18

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.38%

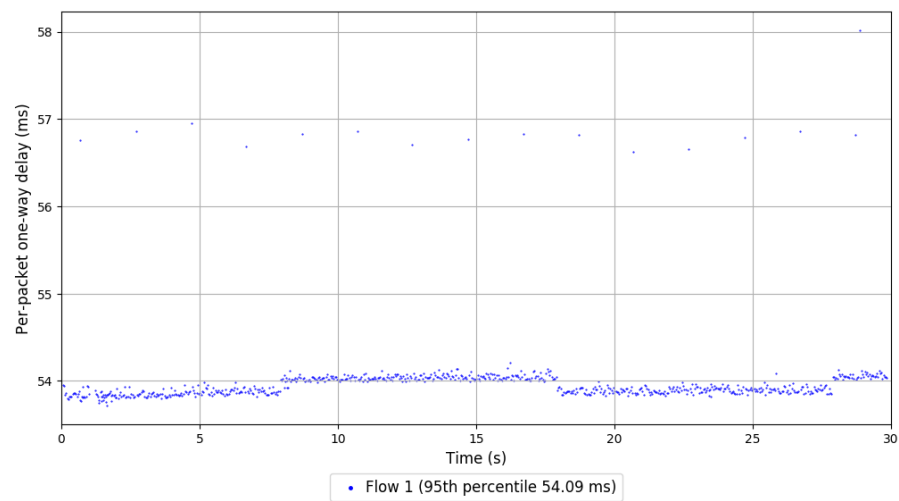
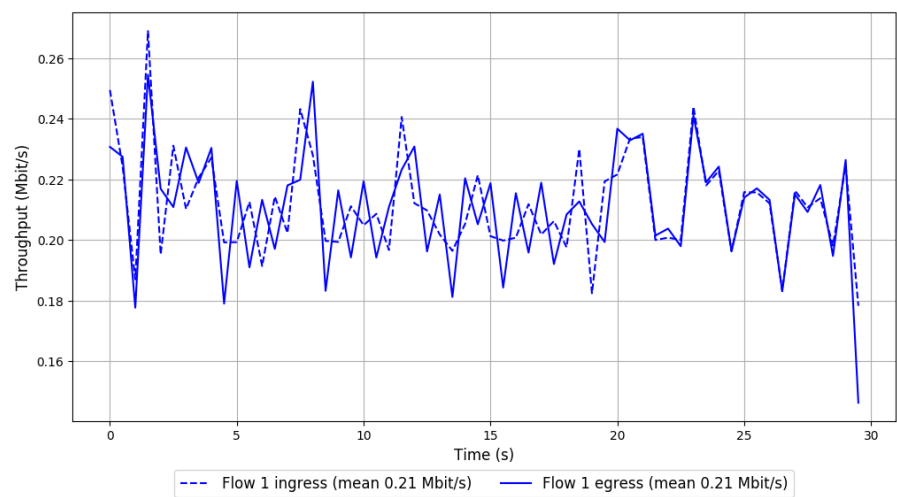
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.091 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-17 13:14:53

End at: 2018-04-17 13:15:23

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.282 ms

Loss rate: 0.38%

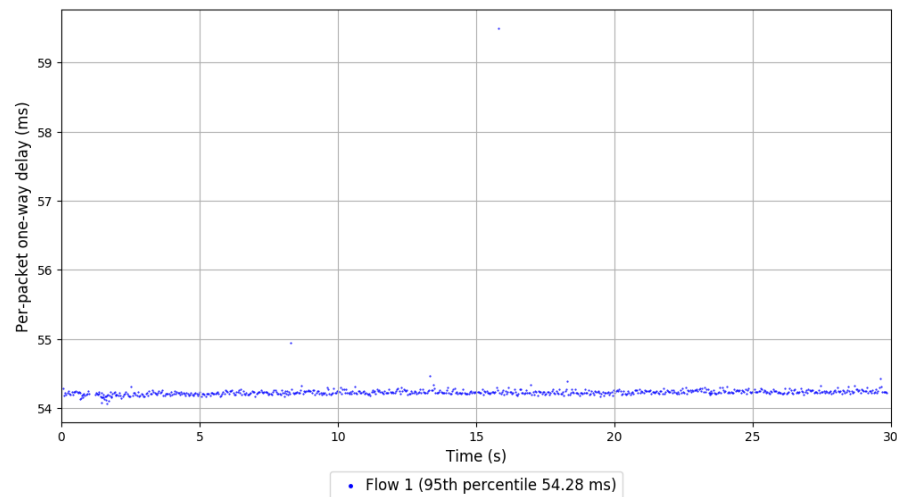
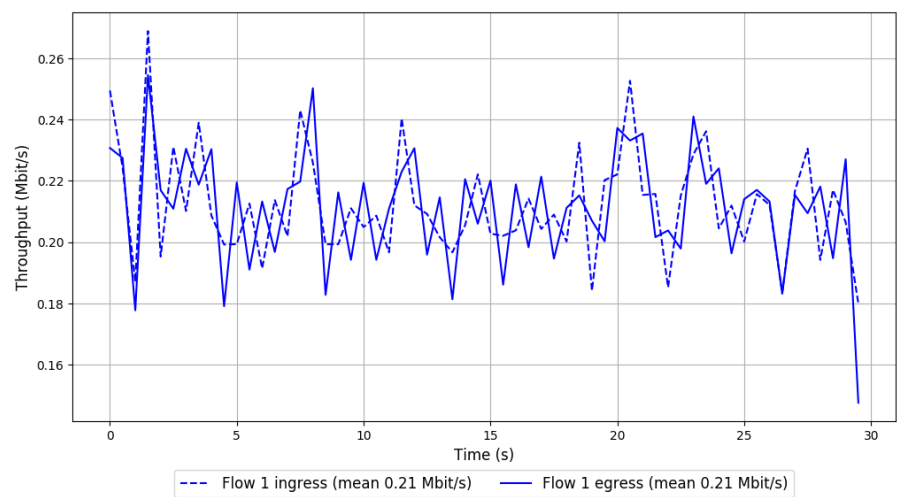
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.282 ms

Loss rate: 0.38%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-17 13:27:38

End at: 2018-04-17 13:28:08

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.38%

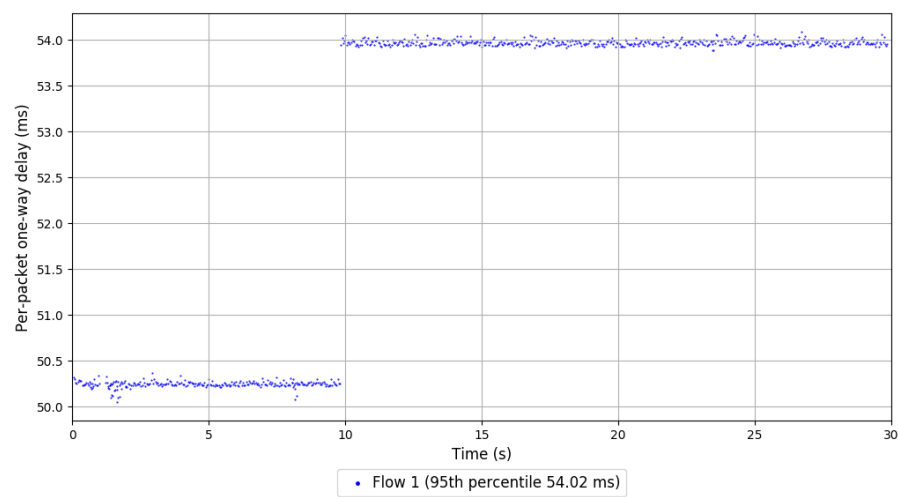
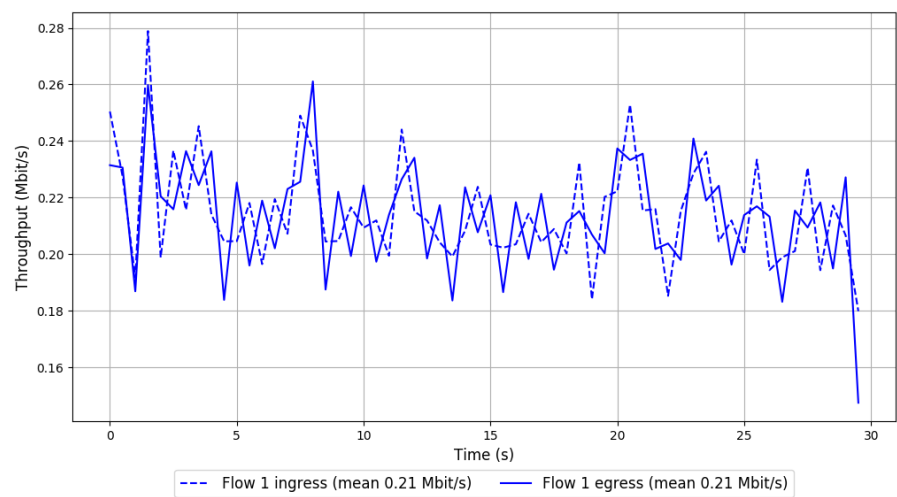
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 54.023 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-17 13:40:26

End at: 2018-04-17 13:40:56

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 0.38%

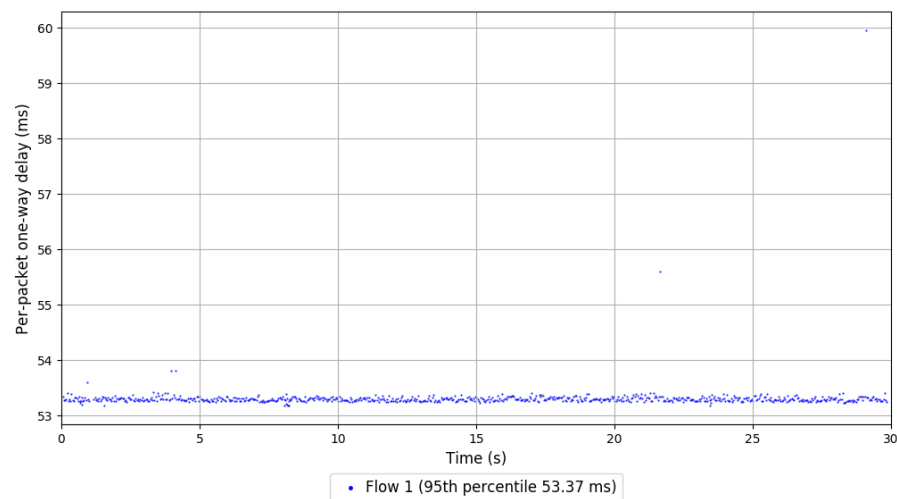
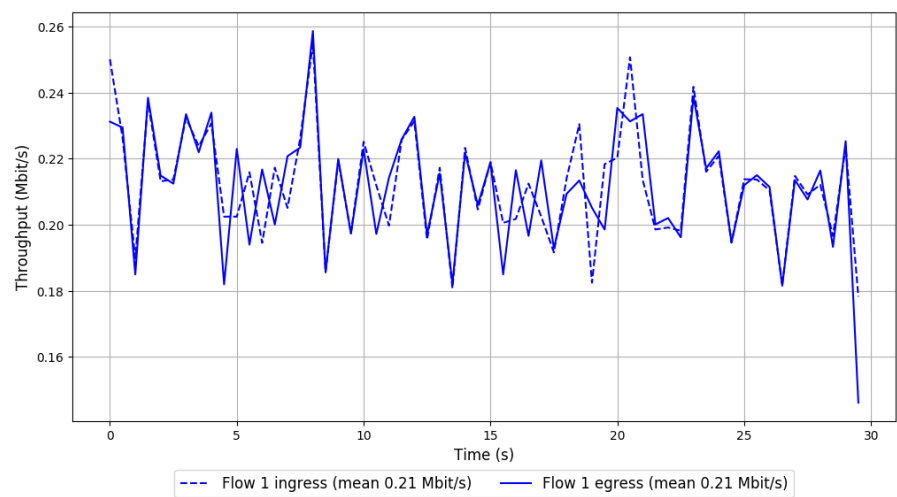
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.370 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-17 13:53:09

End at: 2018-04-17 13:53:39

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.38%

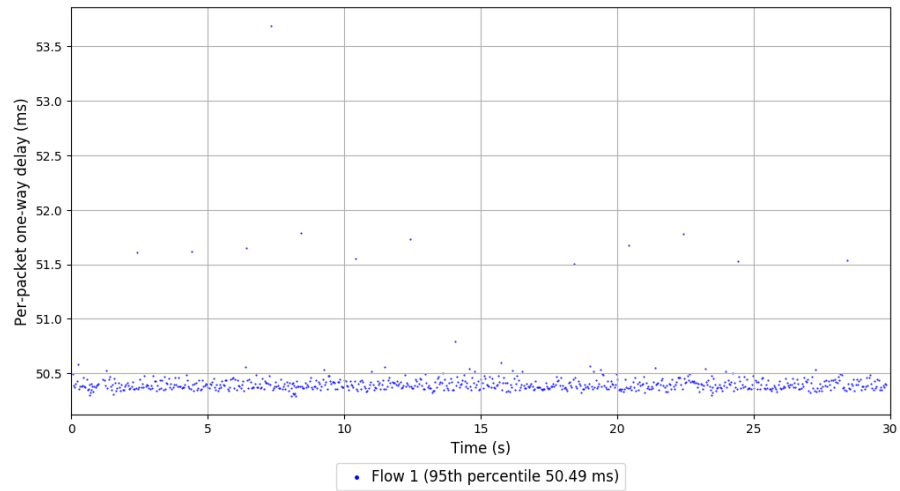
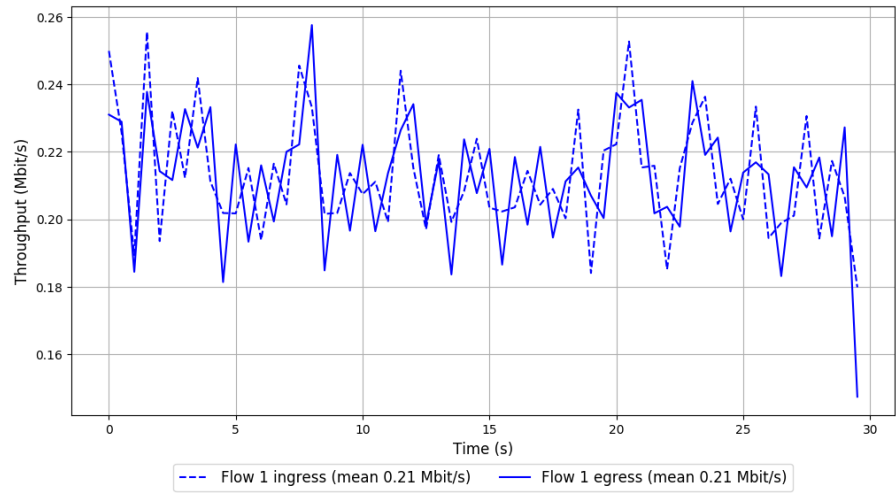
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.489 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-17 14:05:45

End at: 2018-04-17 14:06:15

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

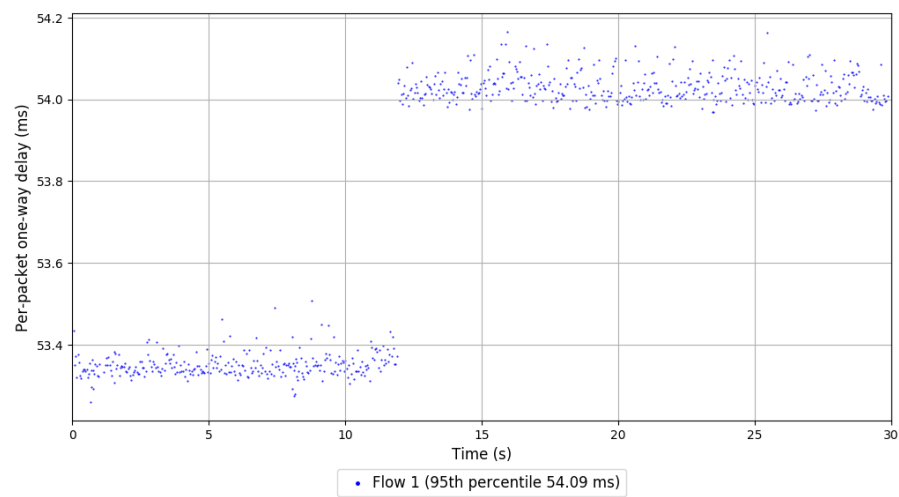
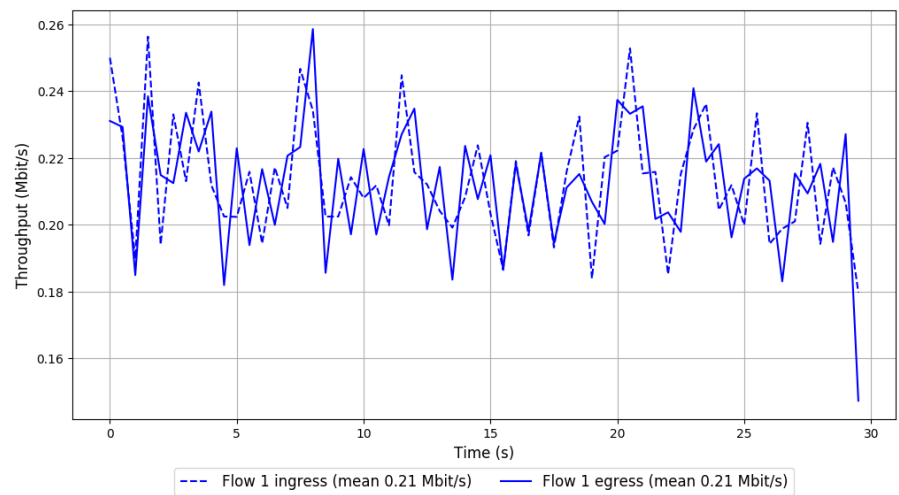
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 9: Report of SCRaM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 14:18:32

End at: 2018-04-17 14:19:02

Below is generated by plot.py at 2018-04-17 17:03:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.38%

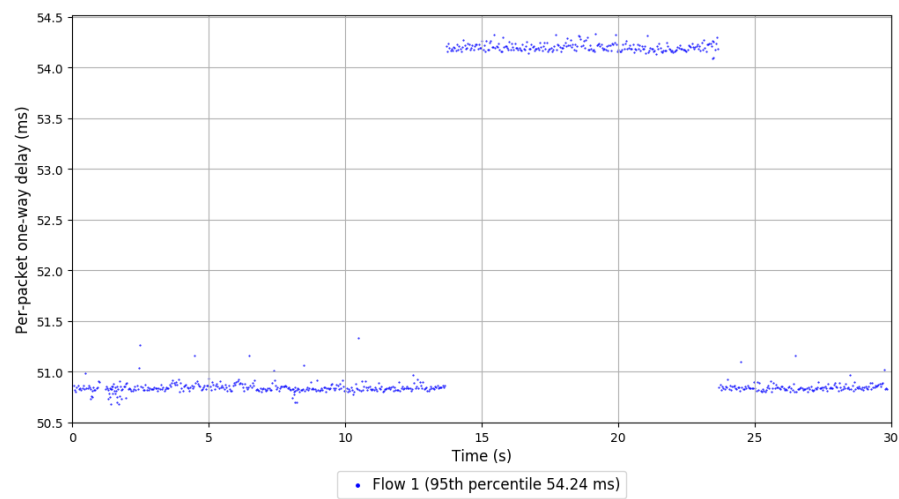
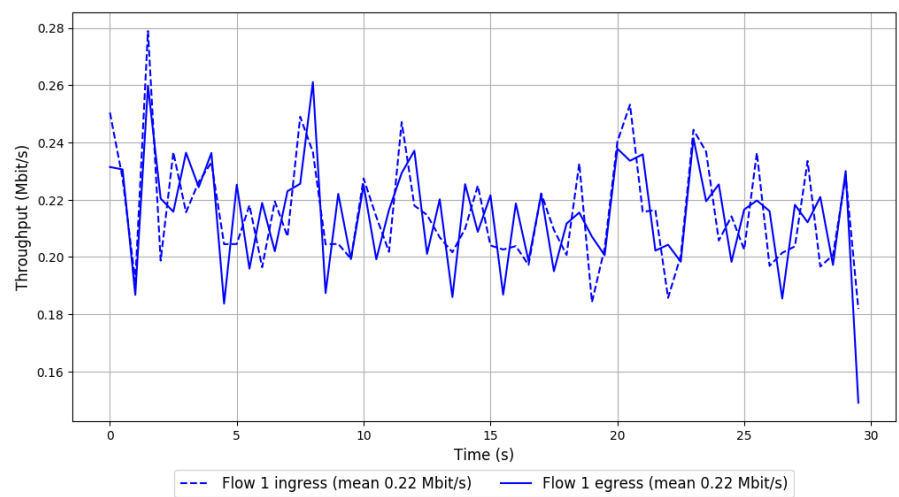
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.237 ms

Loss rate: 0.38%

Run 10: Report of SReAM — Data Link

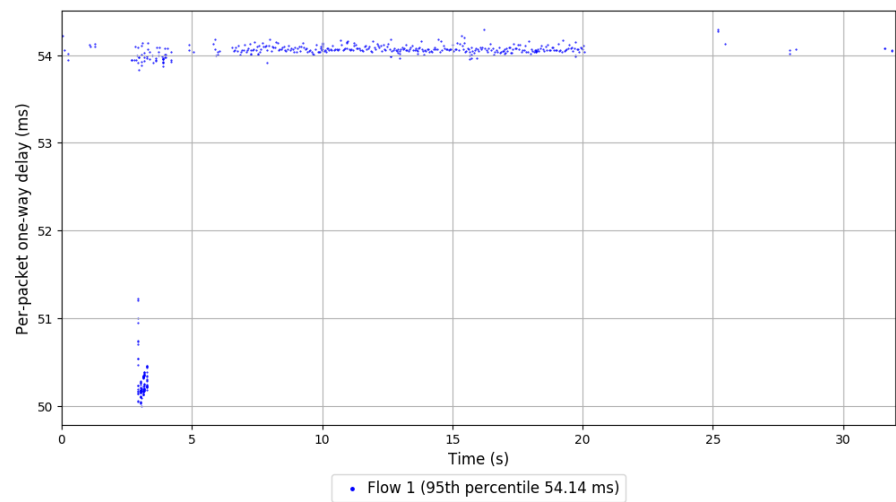
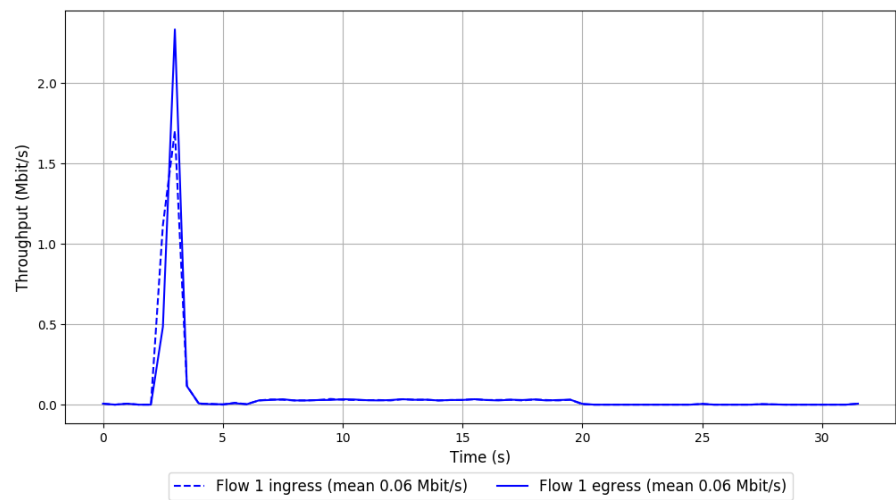


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 12:17:29
End at: 2018-04-17 12:17:59

# Below is generated by plot.py at 2018-04-17 17:03:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.138 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 12:30:18

End at: 2018-04-17 12:30:48

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.00%

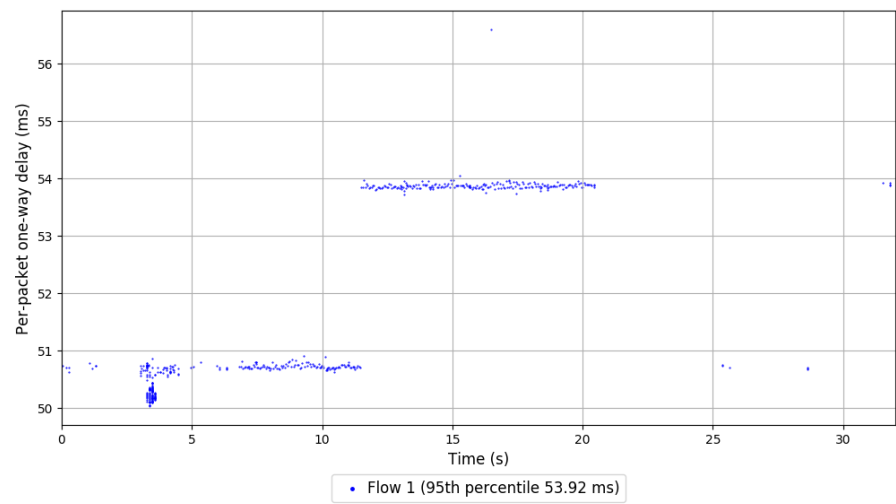
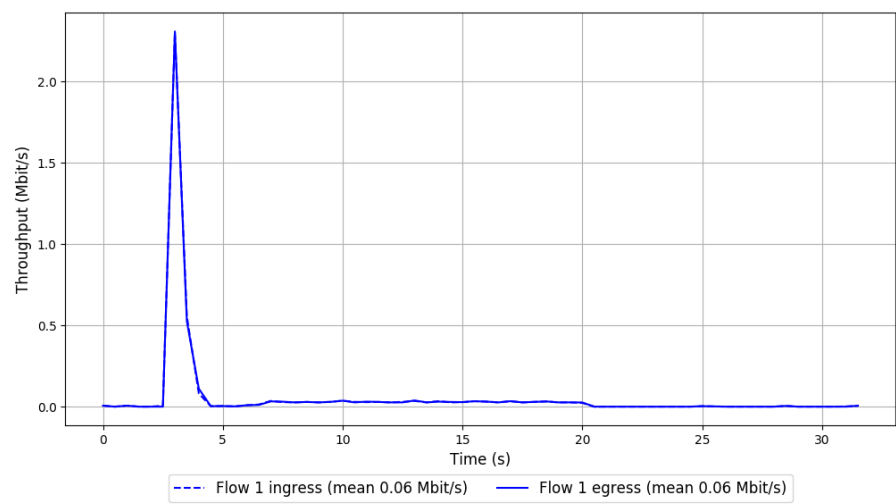
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.916 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 12:42:58

End at: 2018-04-17 12:43:28

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.114 ms

Loss rate: 0.00%

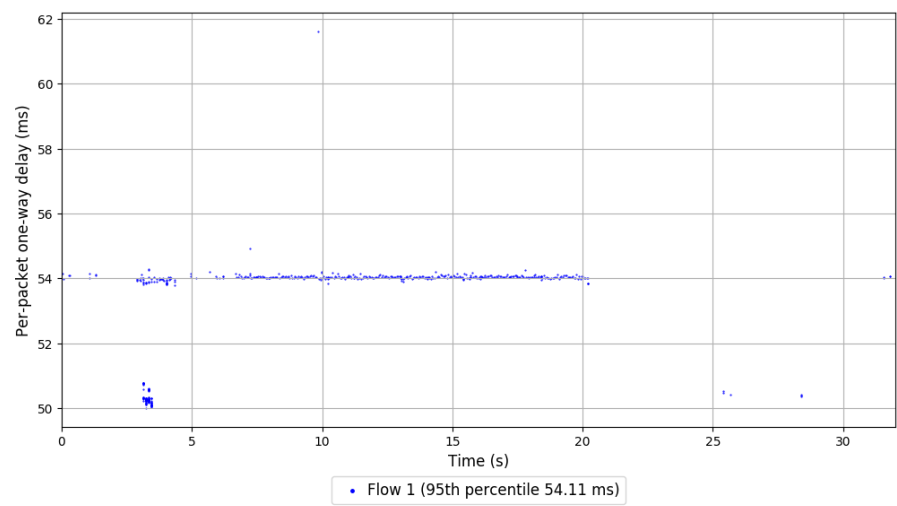
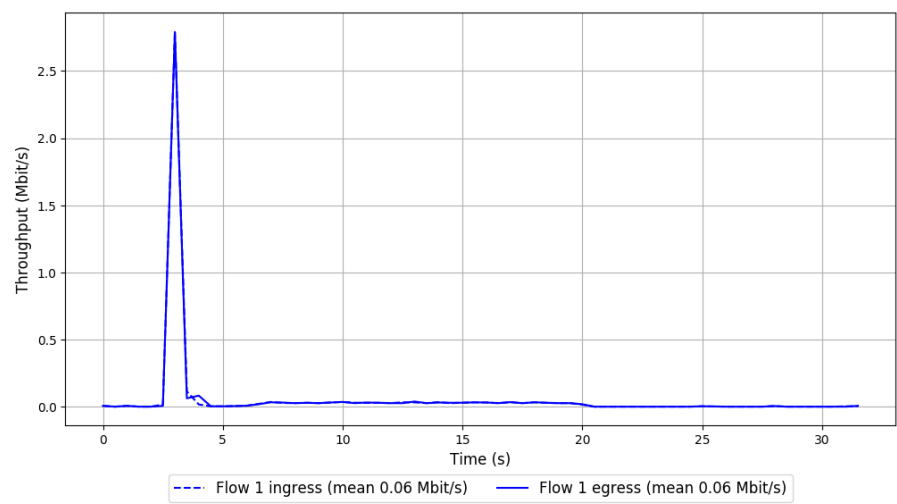
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.114 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-17 12:55:38

End at: 2018-04-17 12:56:08

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

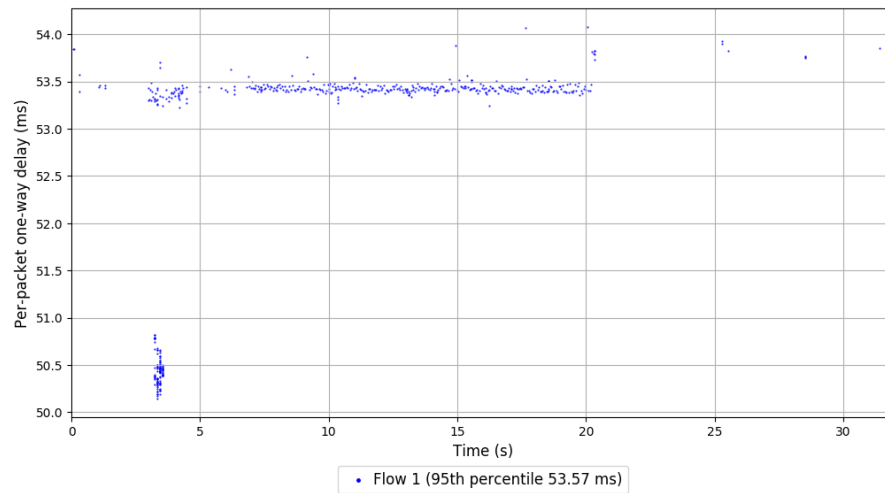
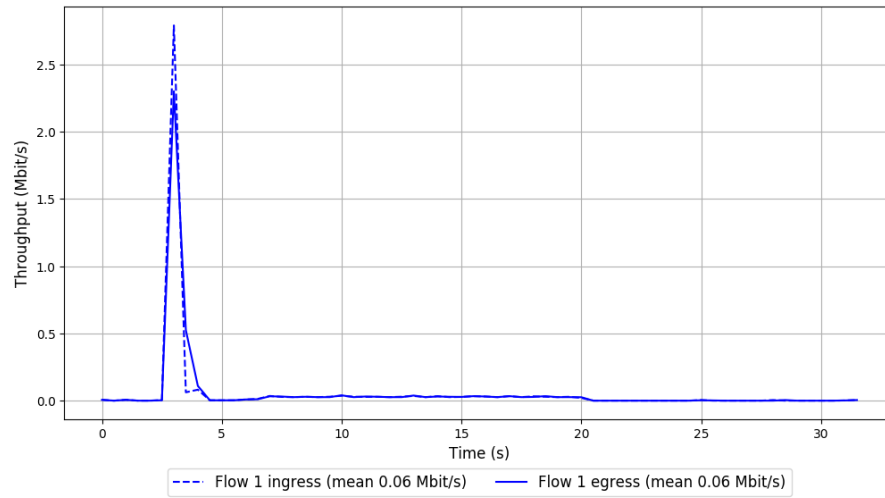
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.567 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-17 13:08:29

End at: 2018-04-17 13:08:59

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.210 ms

Loss rate: 0.00%

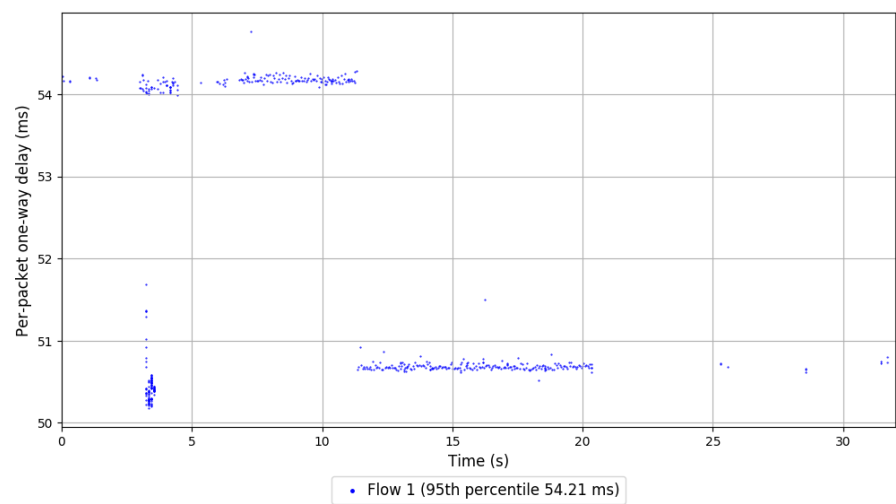
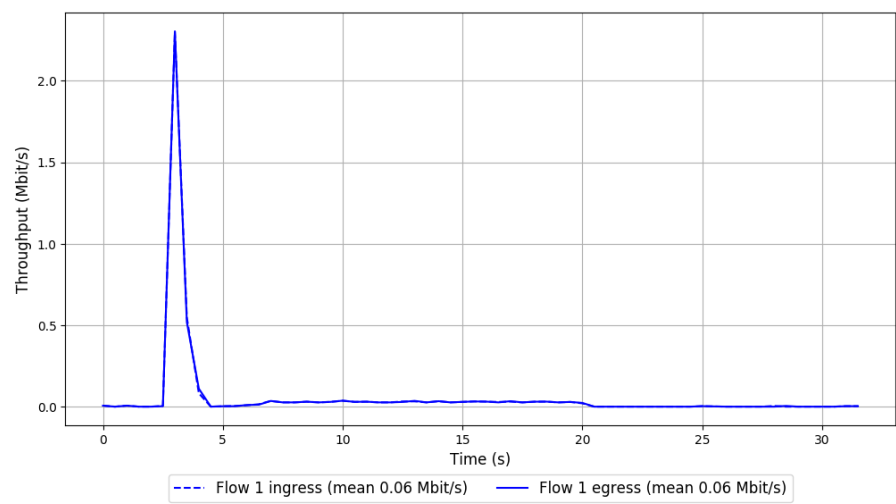
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.210 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 13:21:33

End at: 2018-04-17 13:22:03

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.220 ms

Loss rate: 0.00%

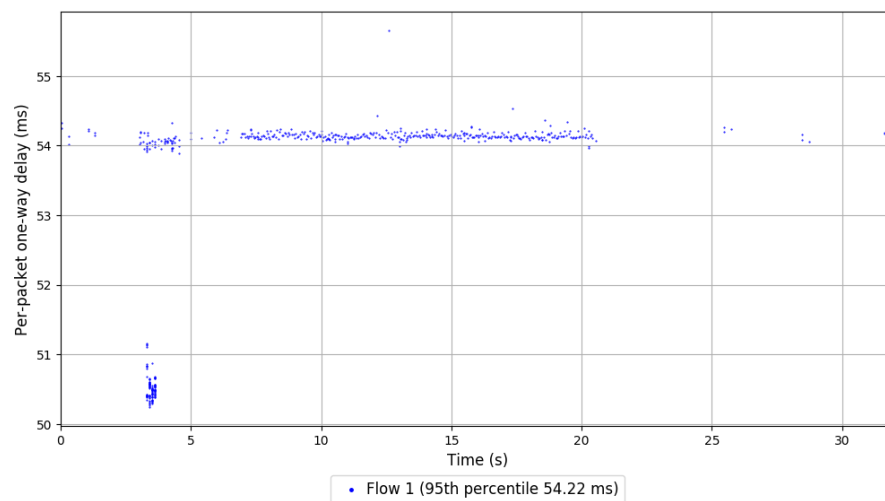
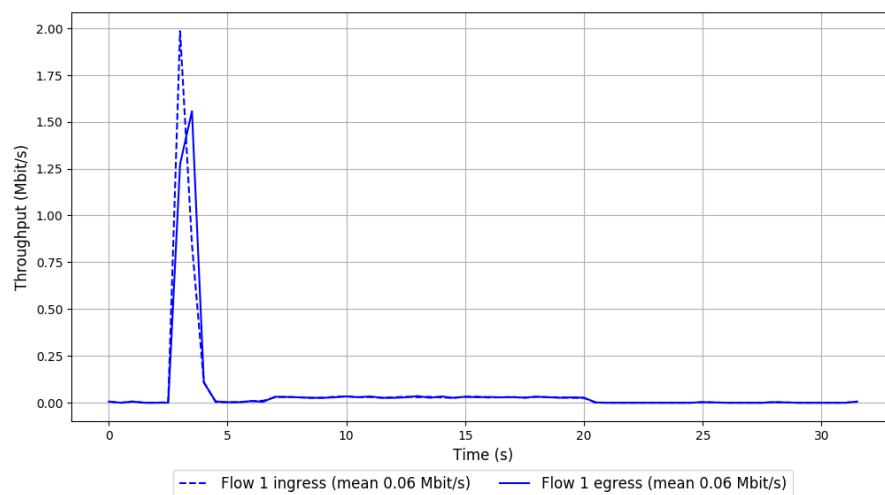
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 54.220 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-17 13:34:22

End at: 2018-04-17 13:34:52

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

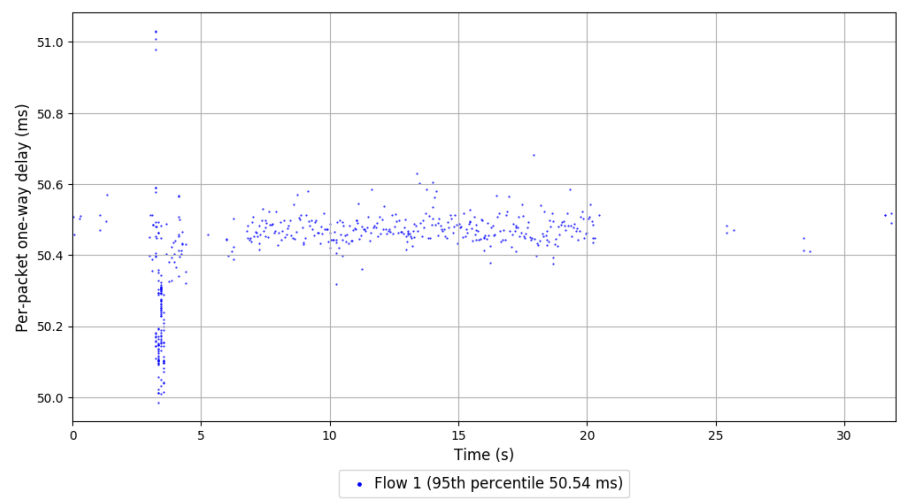
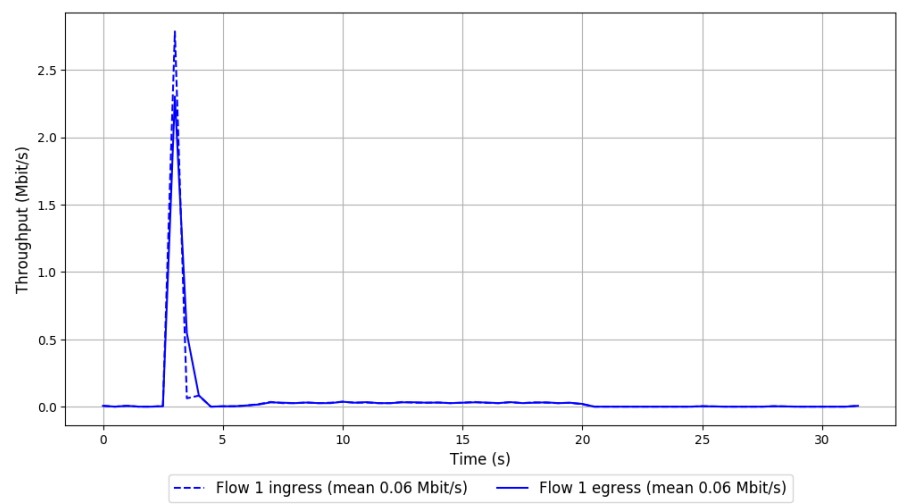
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.542 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-17 13:47:07

End at: 2018-04-17 13:47:37

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 52.040 ms

Loss rate: 0.00%

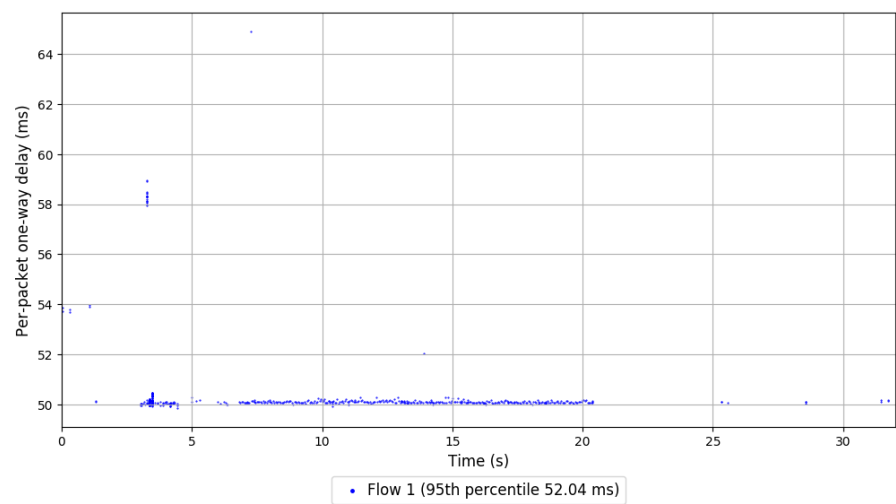
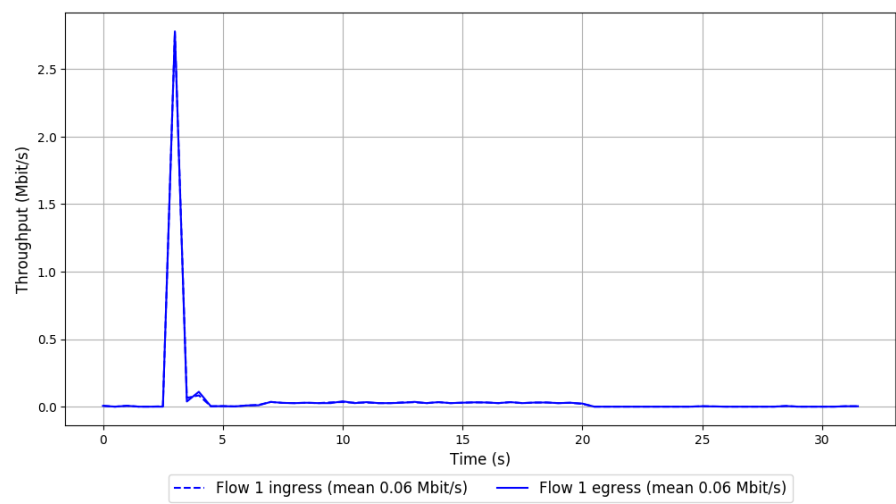
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 52.040 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 13:59:43

End at: 2018-04-17 14:00:13

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

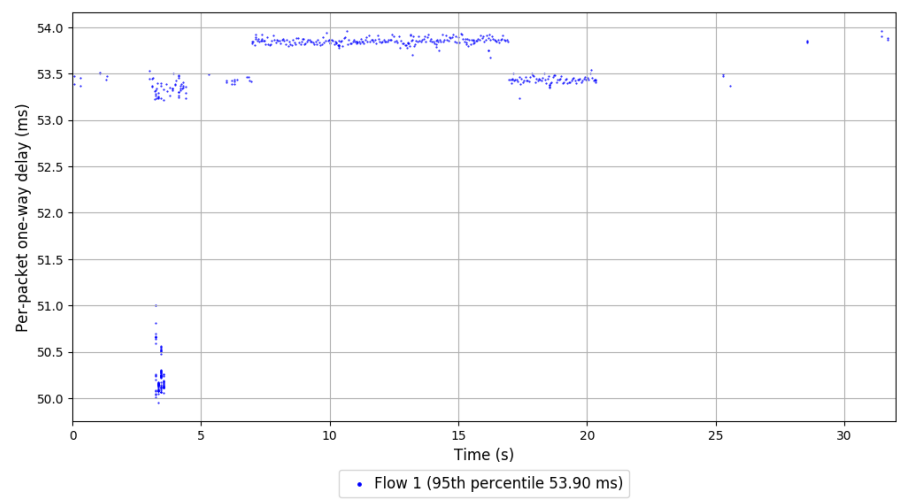
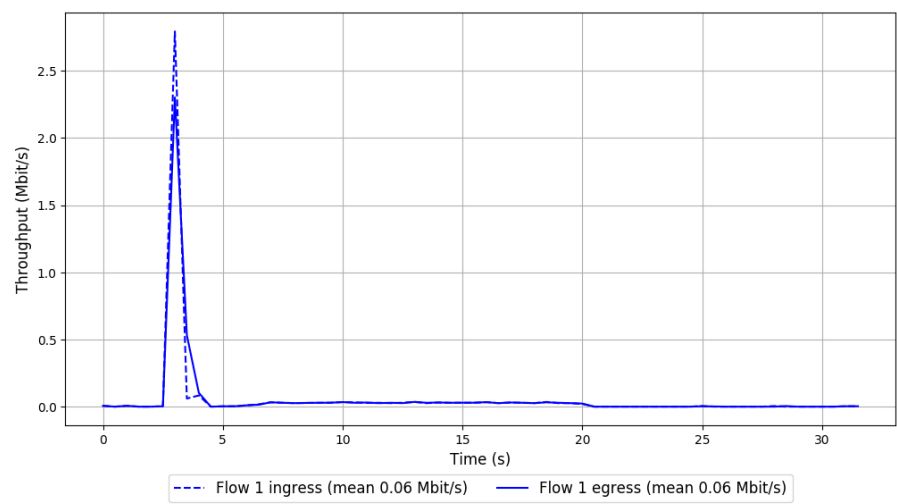
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 53.900 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 14:12:26

End at: 2018-04-17 14:12:56

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.00%

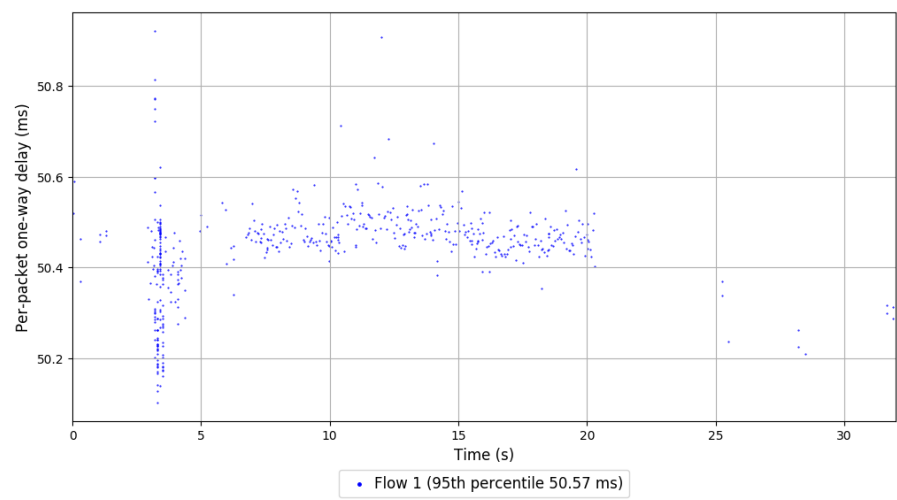
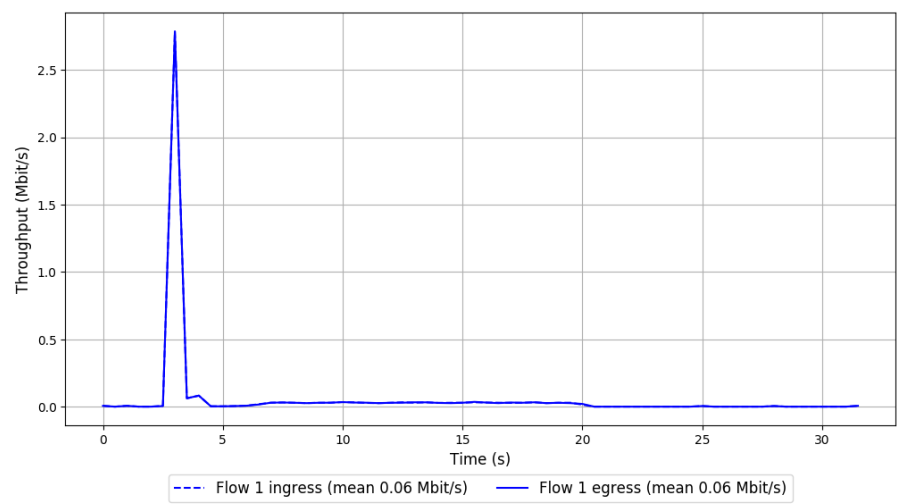
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.568 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 12:25:08

End at: 2018-04-17 12:25:38

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.393 ms

Loss rate: 0.31%

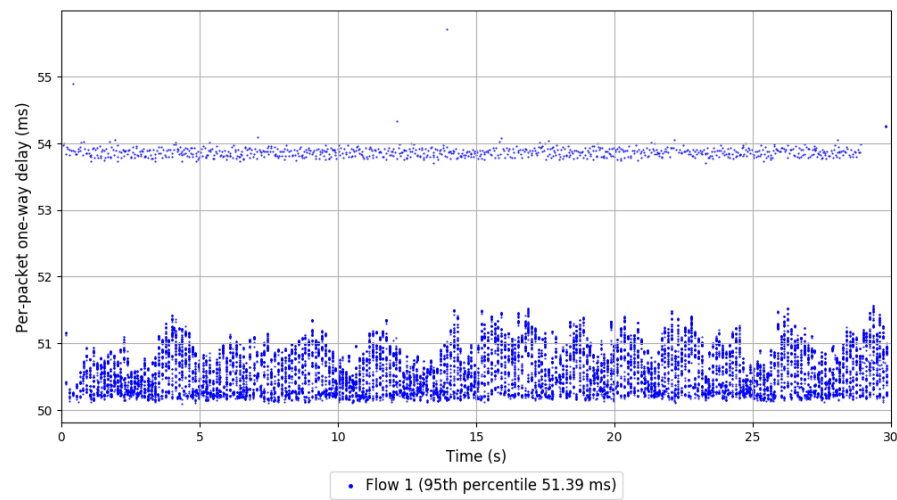
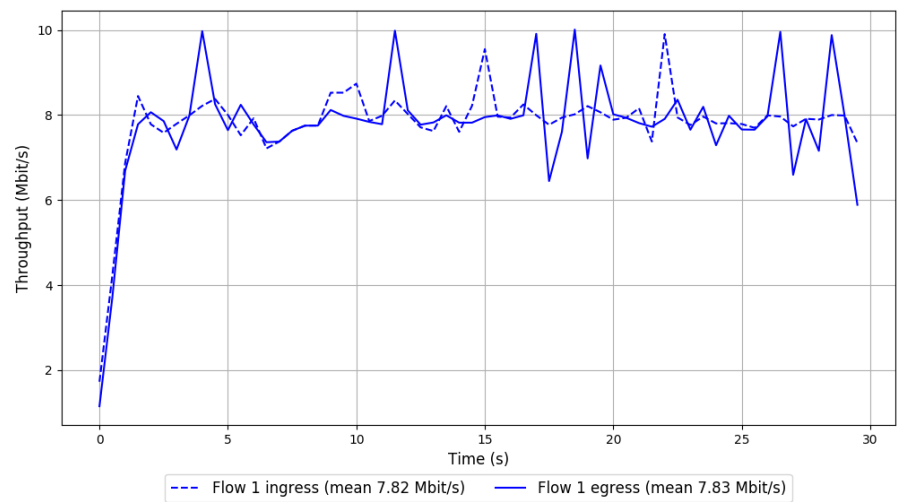
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.393 ms

Loss rate: 0.31%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 12:37:48

End at: 2018-04-17 12:38:18

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.416 ms

Loss rate: 0.41%

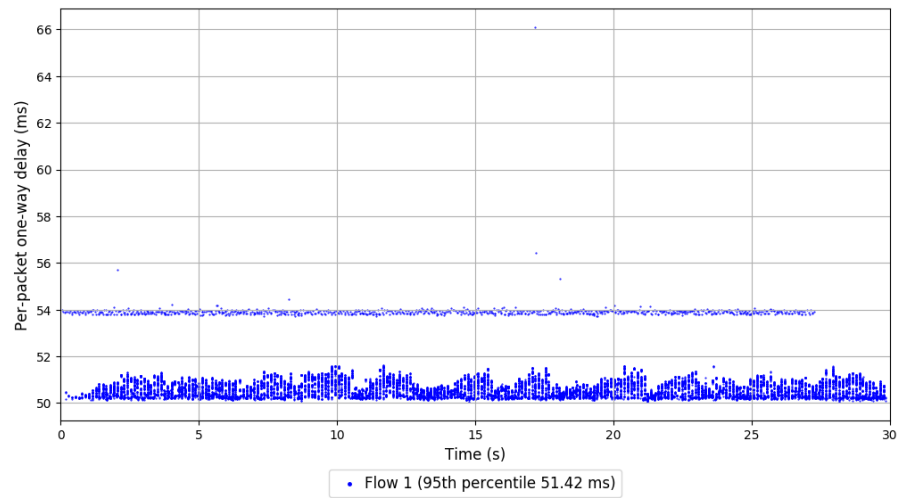
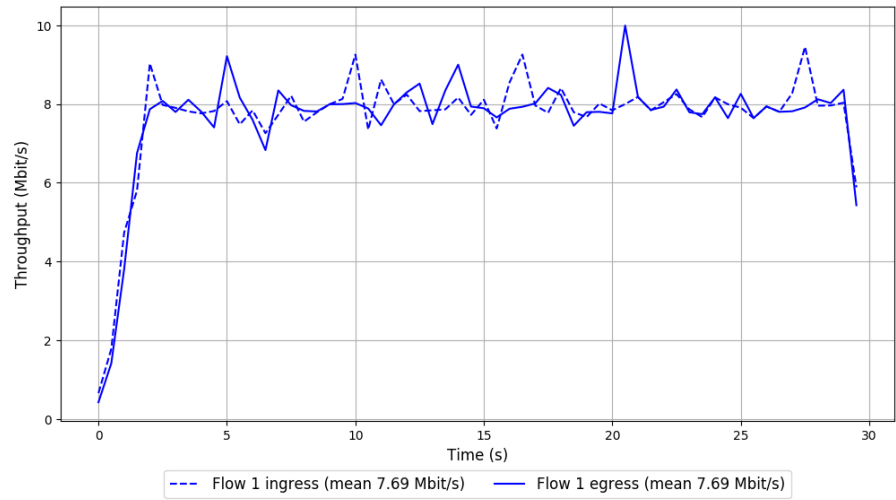
-- Flow 1:

Average throughput: 7.69 Mbit/s

95th percentile per-packet one-way delay: 51.416 ms

Loss rate: 0.41%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-17 12:50:25

End at: 2018-04-17 12:50:55

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.495 ms

Loss rate: 0.42%

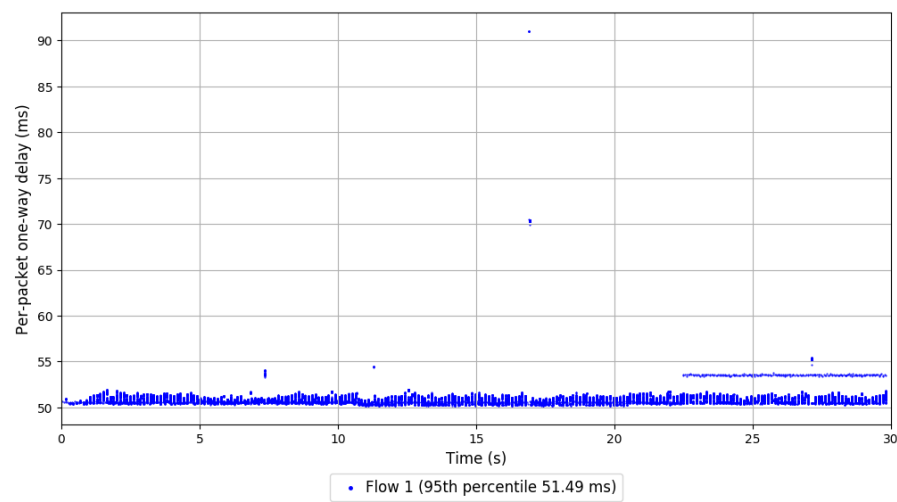
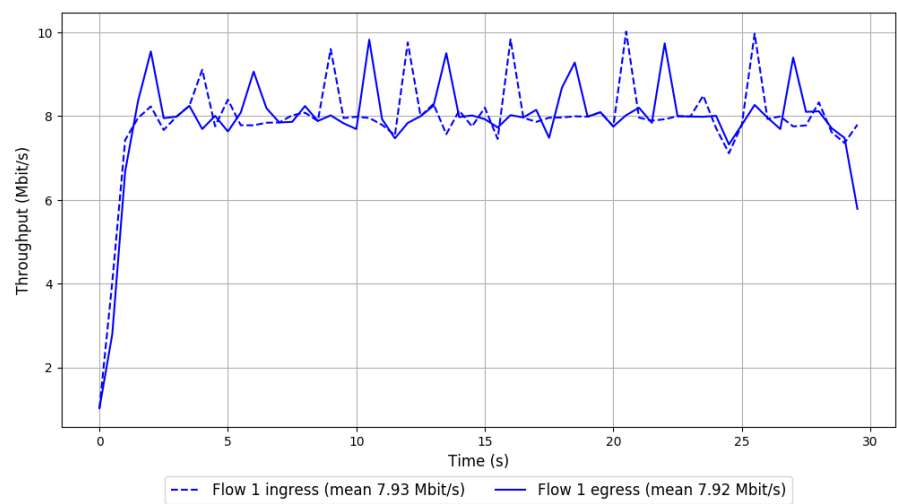
-- Flow 1:

Average throughput: 7.92 Mbit/s

95th percentile per-packet one-way delay: 51.495 ms

Loss rate: 0.42%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-17 13:03:12

End at: 2018-04-17 13:03:42

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.602 ms

Loss rate: 0.63%

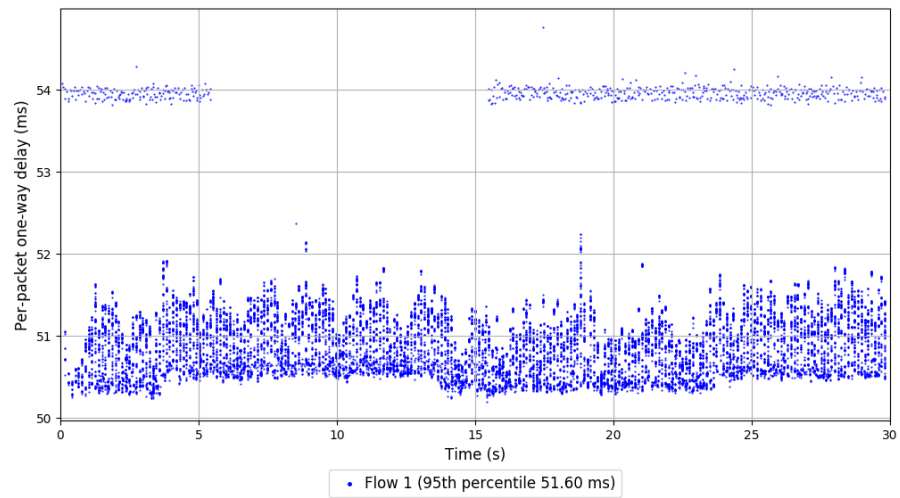
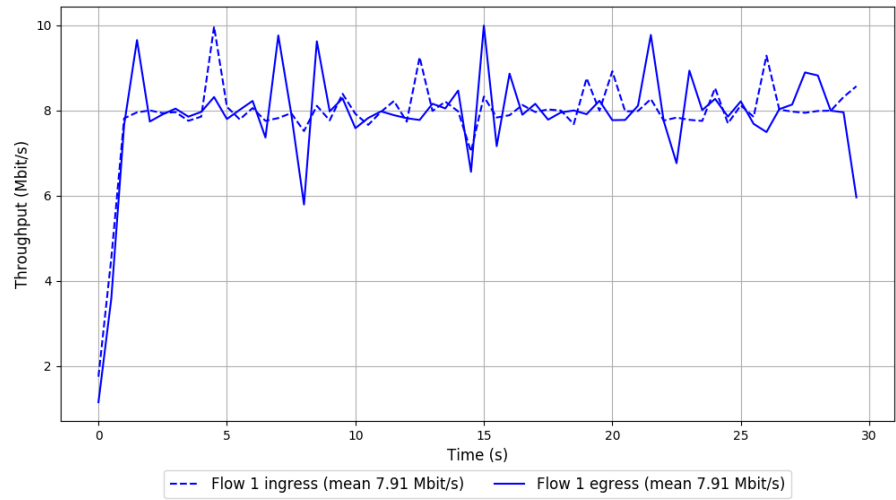
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.602 ms

Loss rate: 0.63%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-17 13:16:17

End at: 2018-04-17 13:16:47

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.42%

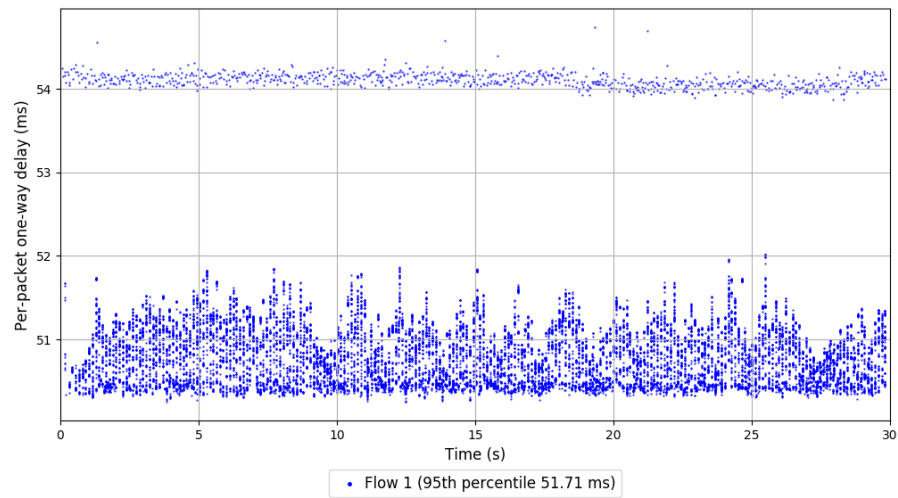
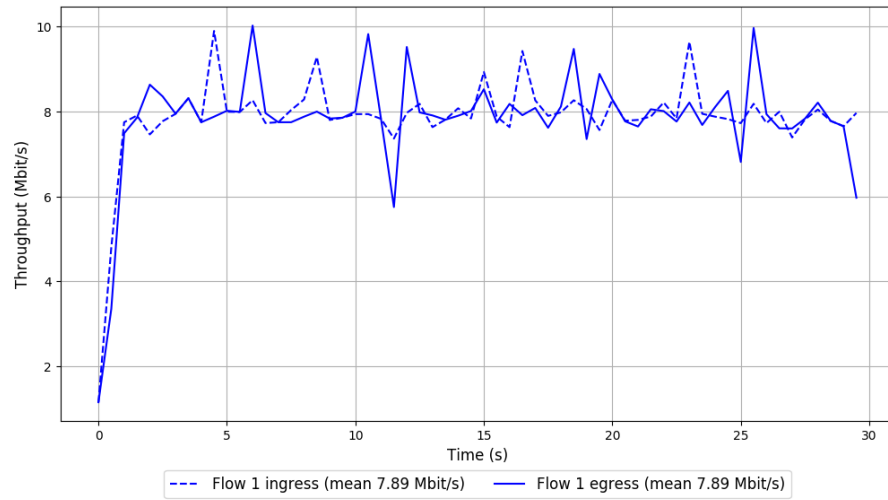
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.711 ms

Loss rate: 0.42%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-17 13:29:02

End at: 2018-04-17 13:29:32

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.540 ms

Loss rate: 0.42%

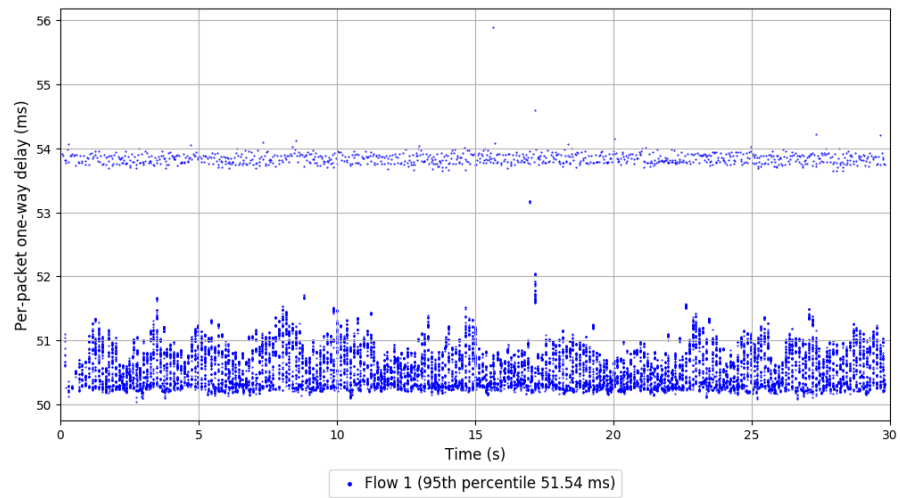
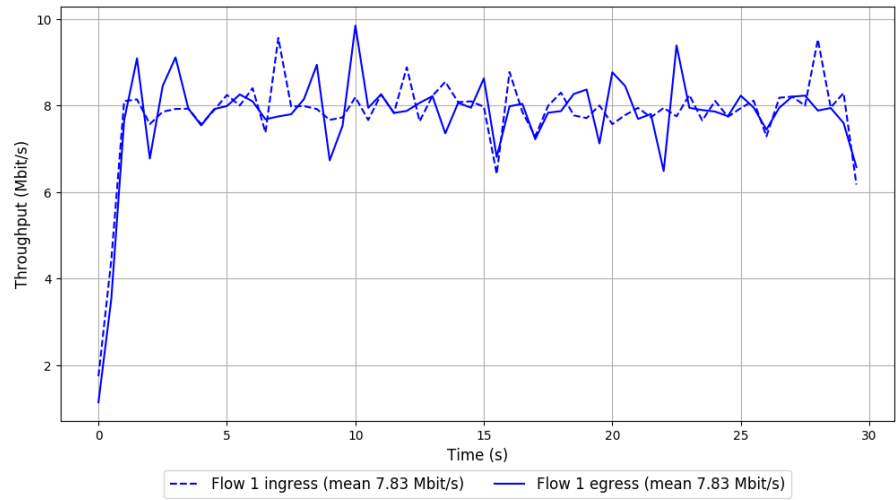
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.540 ms

Loss rate: 0.42%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-17 13:41:50

End at: 2018-04-17 13:42:20

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.120 ms

Loss rate: 0.41%

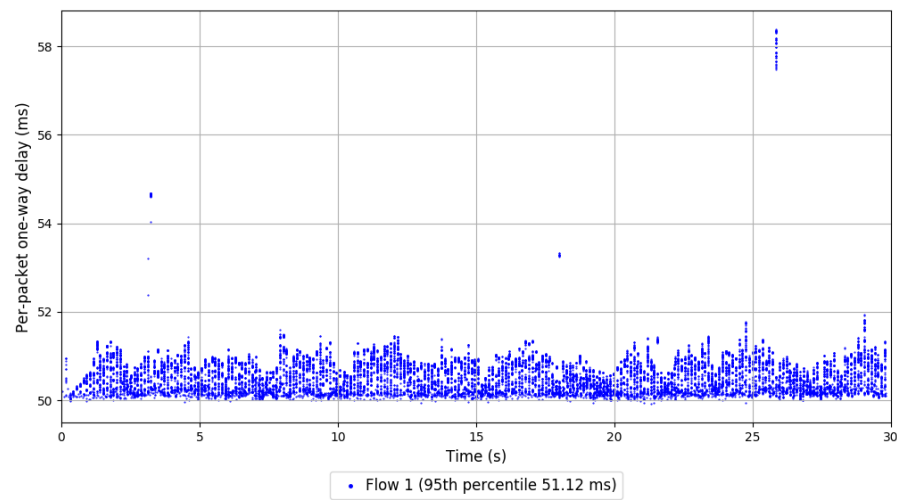
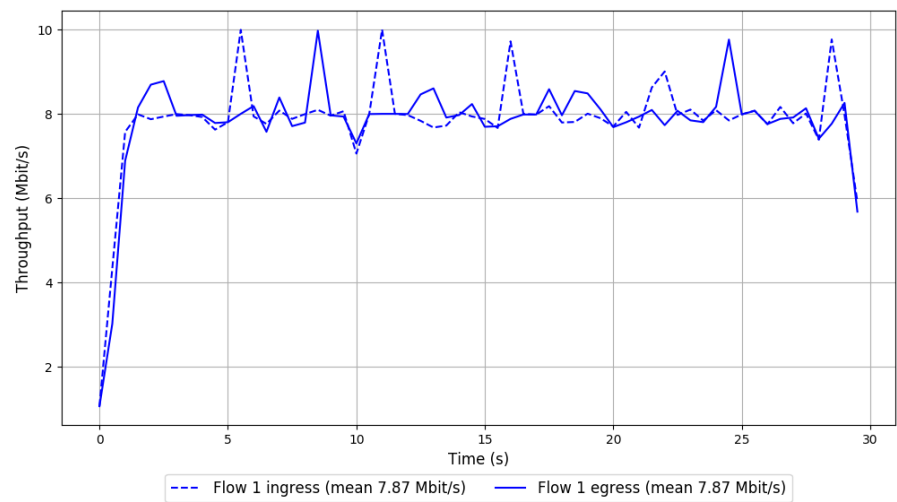
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.120 ms

Loss rate: 0.41%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-17 13:54:33

End at: 2018-04-17 13:55:03

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.057 ms

Loss rate: 0.31%

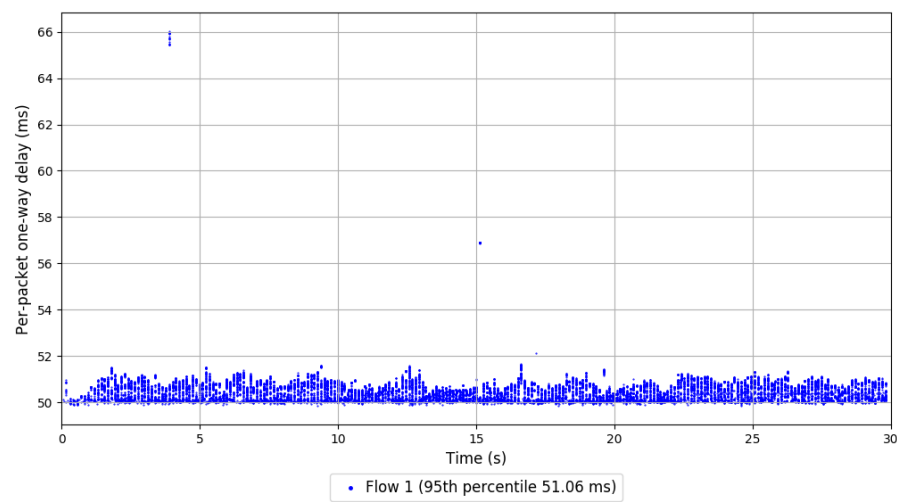
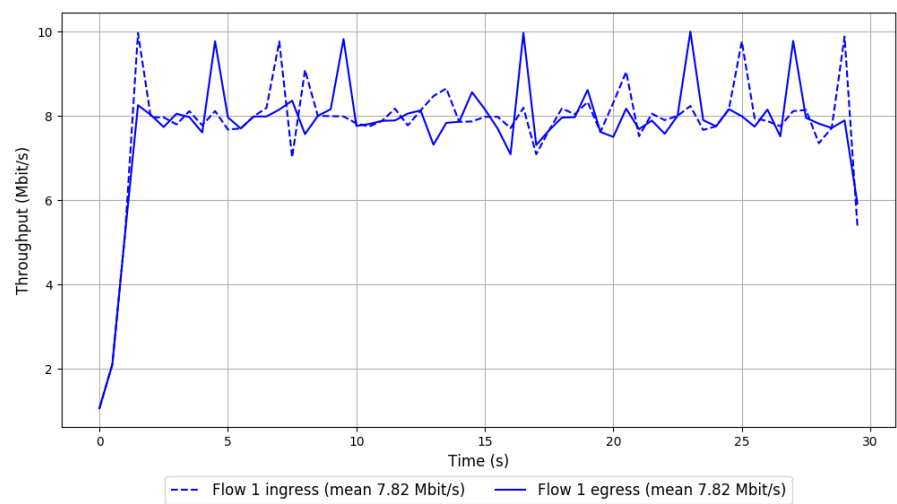
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.057 ms

Loss rate: 0.31%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 14:07:10

End at: 2018-04-17 14:07:40

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.232 ms

Loss rate: 0.28%

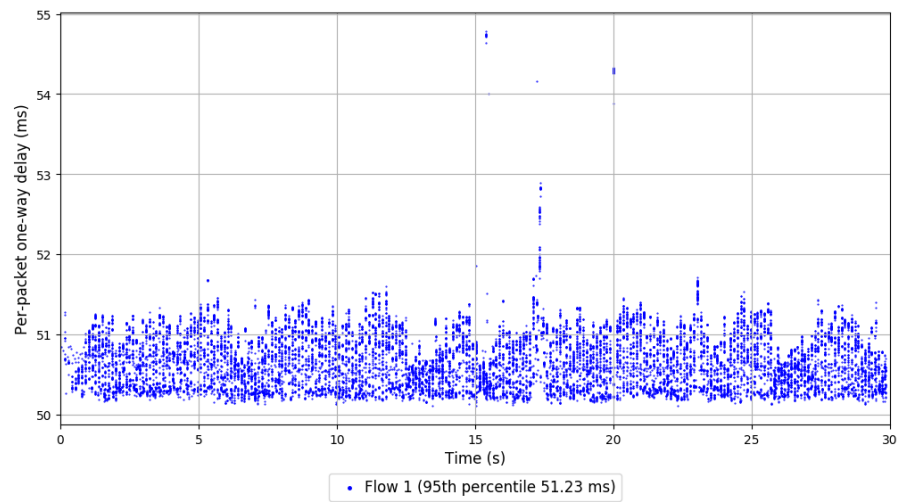
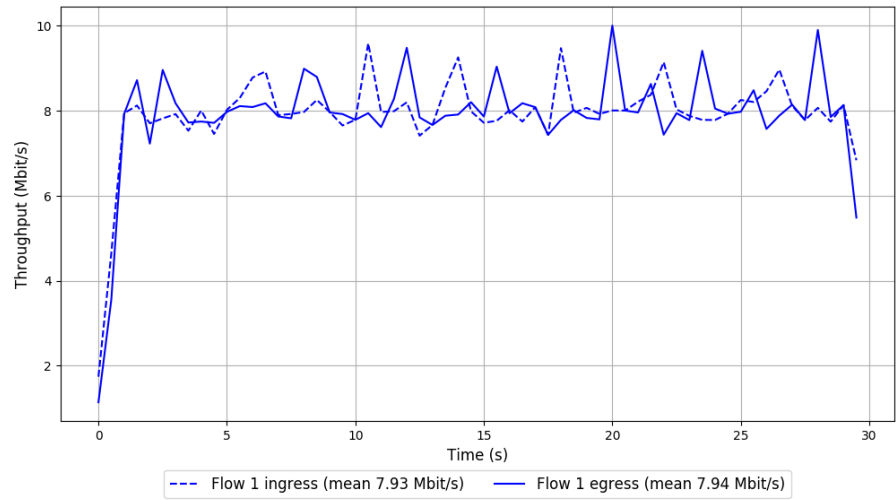
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.232 ms

Loss rate: 0.28%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-17 14:19:56

End at: 2018-04-17 14:20:26

Below is generated by plot.py at 2018-04-17 17:03:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.293 ms

Loss rate: 0.75%

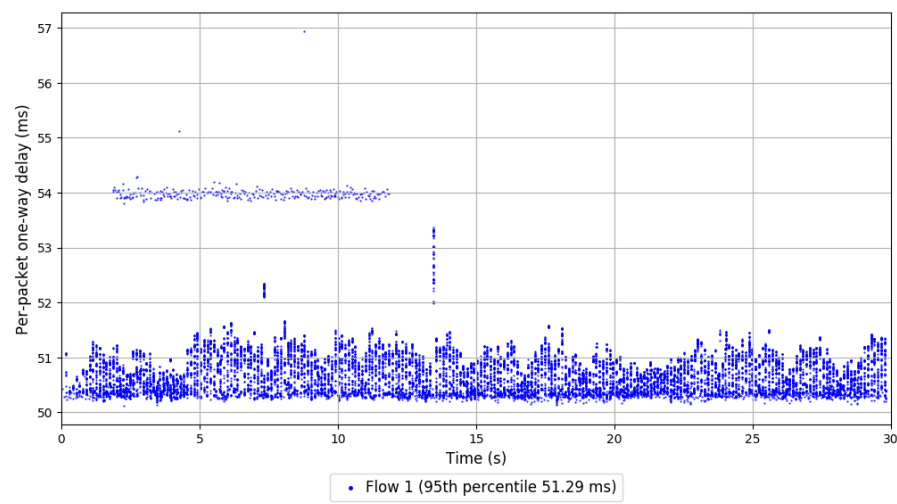
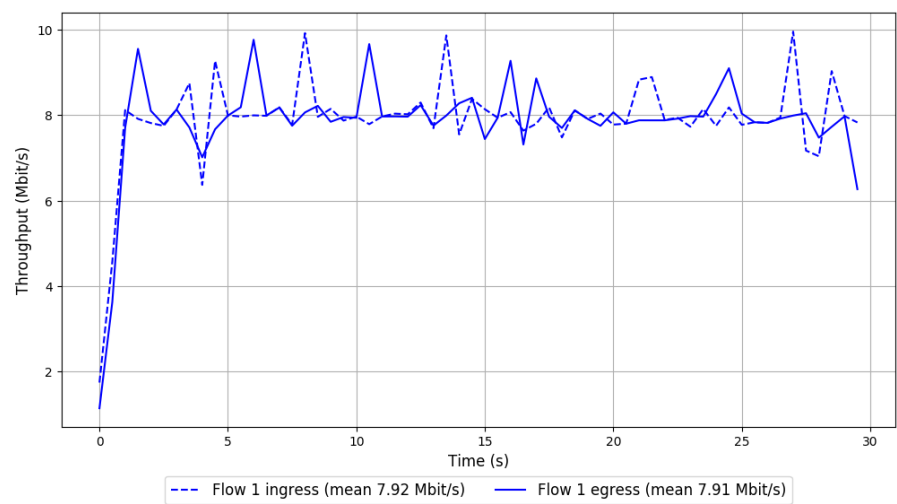
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.293 ms

Loss rate: 0.75%

Run 10: Report of Sprout — Data Link

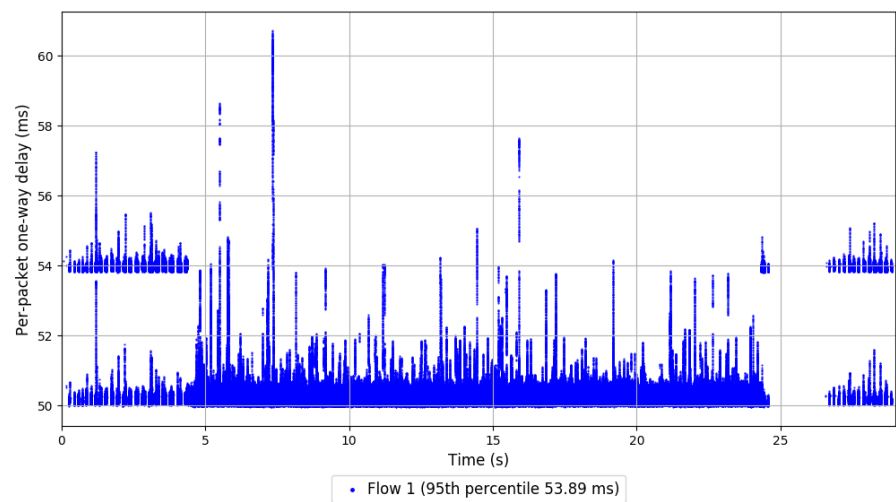
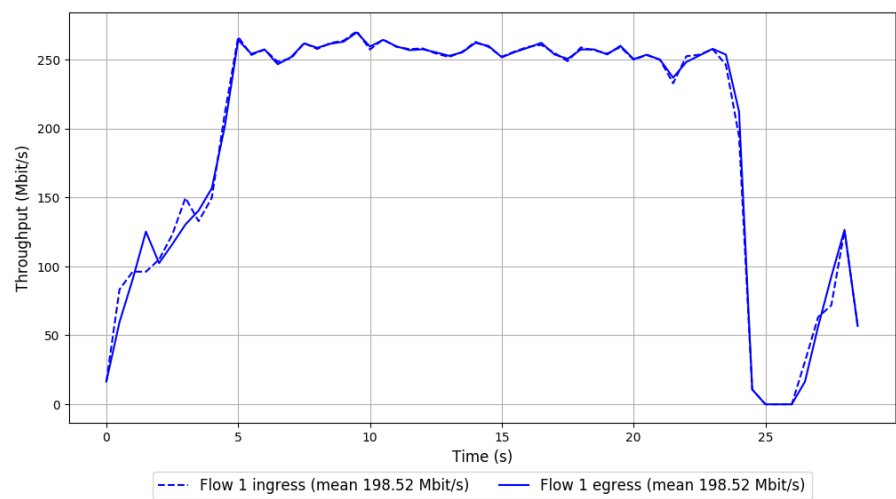


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 12:19:11
End at: 2018-04-17 12:19:41

# Below is generated by plot.py at 2018-04-17 17:04:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.52 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.52 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 0.00%
```

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

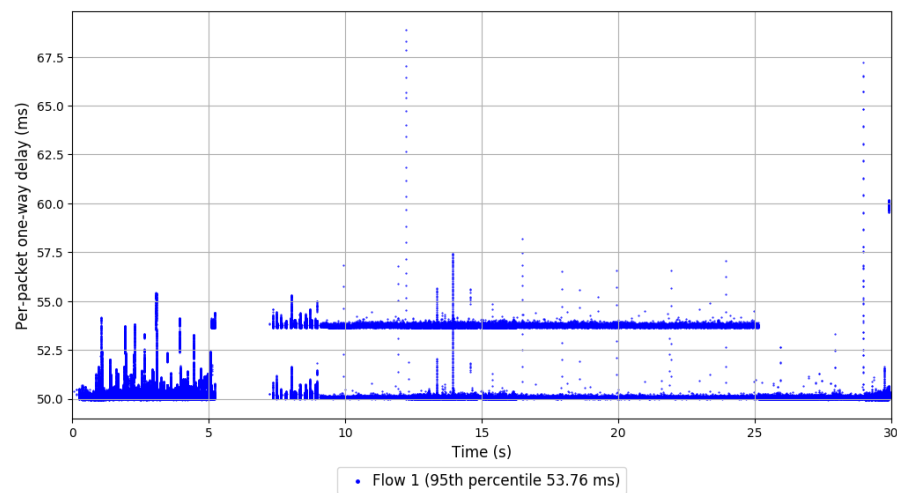
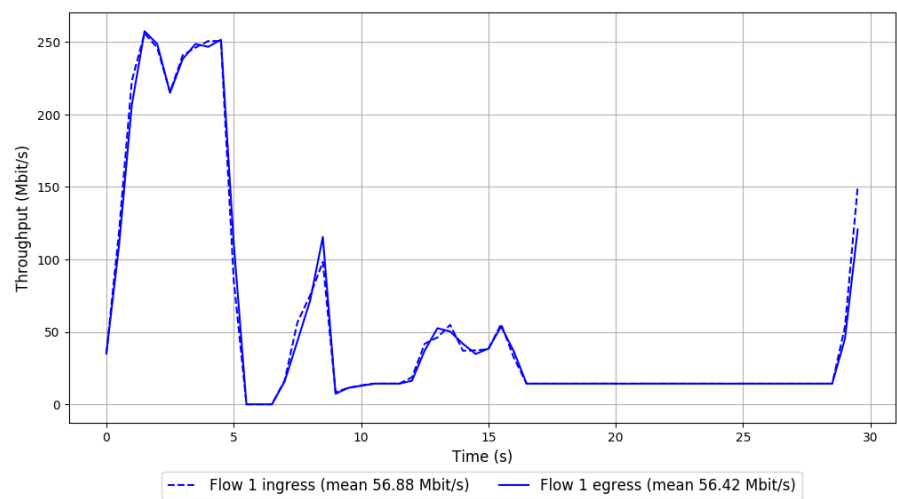


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 12:32:00
End at: 2018-04-17 12:32:30

# Below is generated by plot.py at 2018-04-17 17:04:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 53.763 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 56.42 Mbit/s
95th percentile per-packet one-way delay: 53.763 ms
Loss rate: 1.15%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 12:44:39

End at: 2018-04-17 12:45:09

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.68 Mbit/s

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

Loss rate: 0.42%

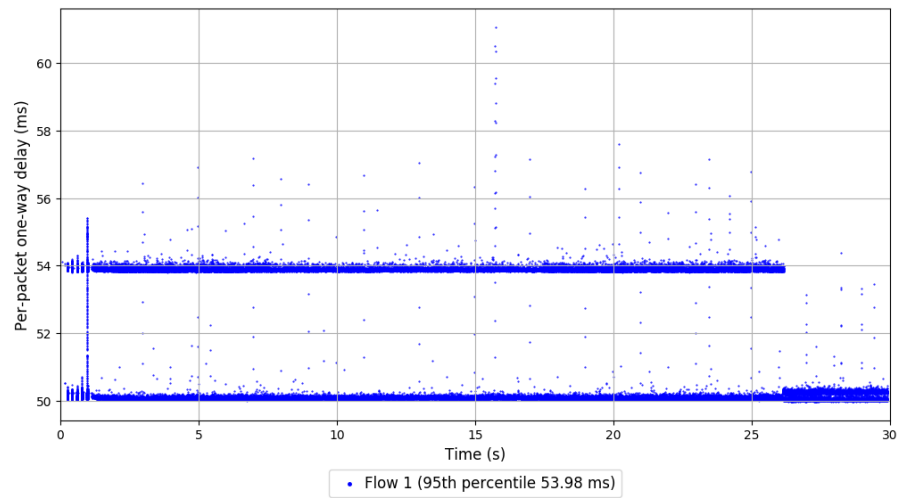
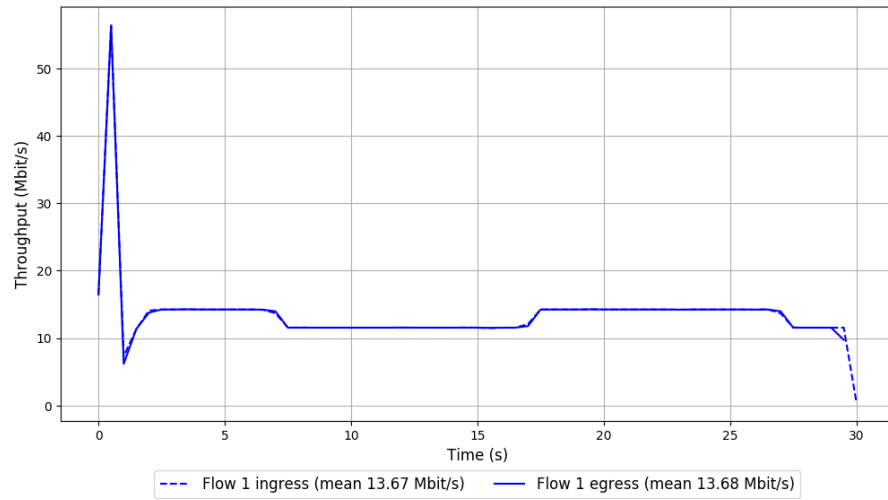
-- Flow 1:

Average throughput: 13.68 Mbit/s

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

Loss rate: 0.42%

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

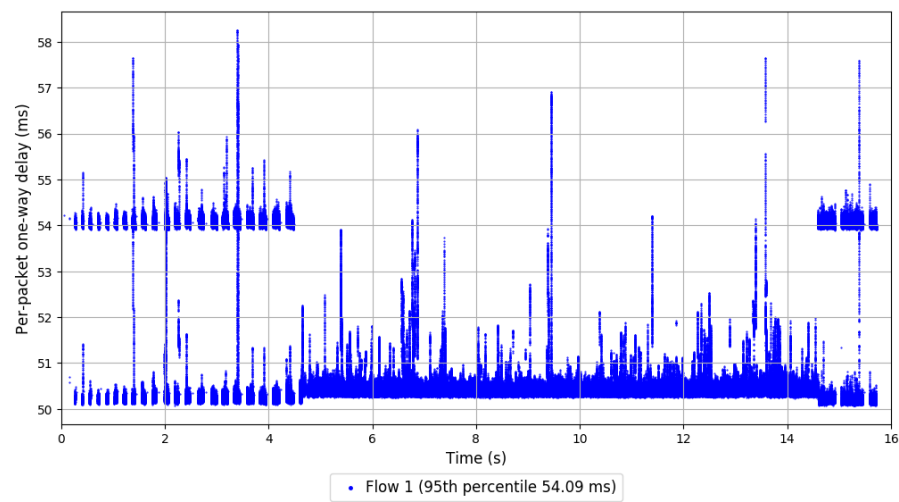
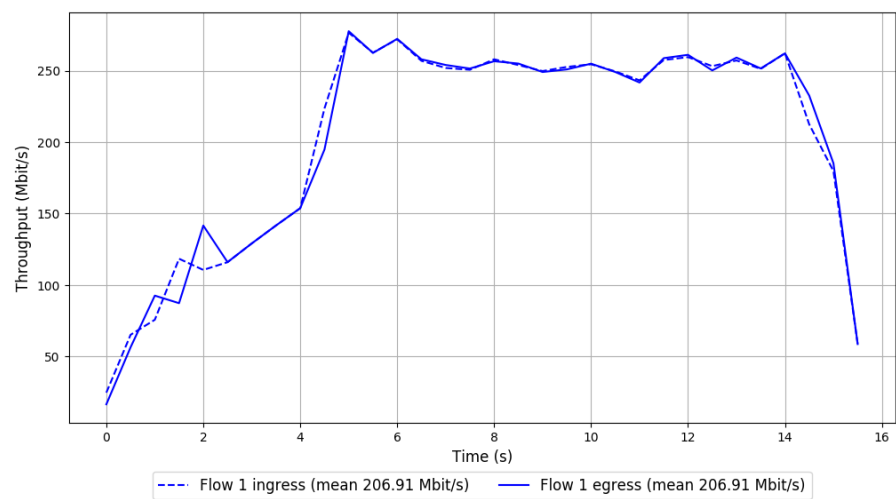


Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 12:57:21

End at: 2018-04-17 12:57:51

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 13:10:11

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

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.68 Mbit/s

95th percentile per-packet one-way delay: 50.757 ms

Loss rate: 0.37%

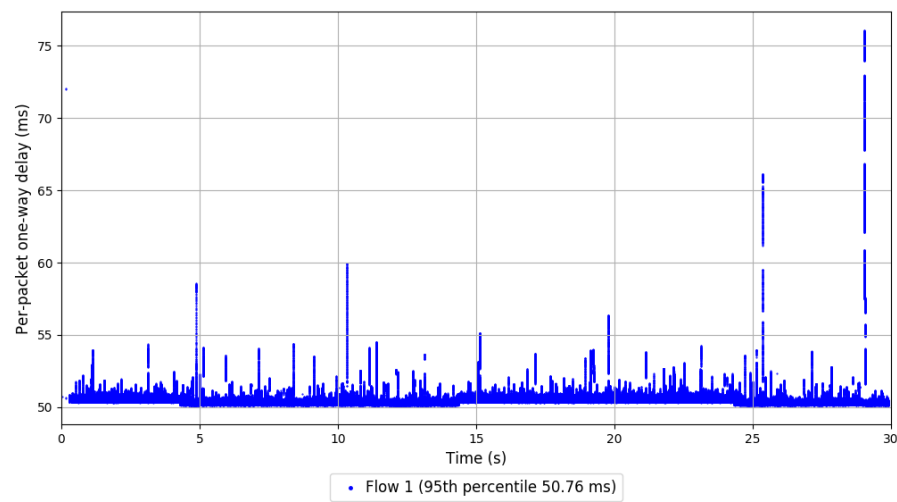
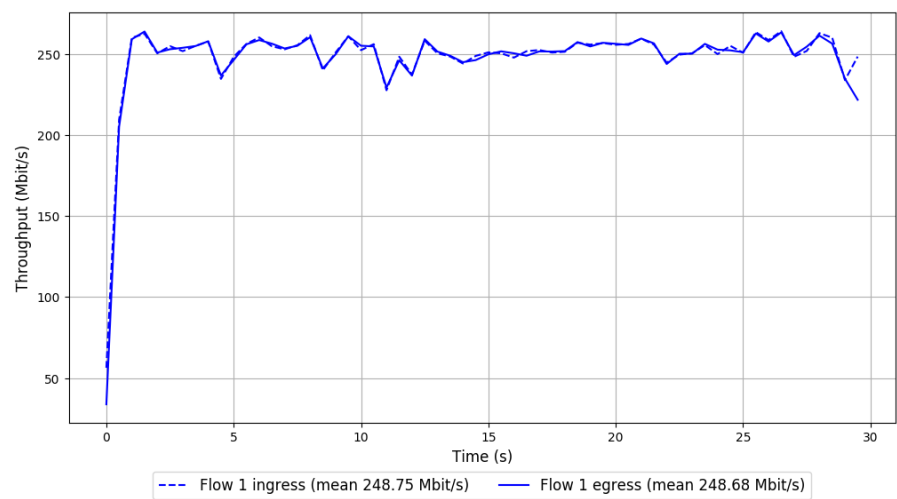
-- Flow 1:

Average throughput: 248.68 Mbit/s

95th percentile per-packet one-way delay: 50.757 ms

Loss rate: 0.37%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 13:23:15

End at: 2018-04-17 13:23:45

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 54.021 ms

Loss rate: 0.22%

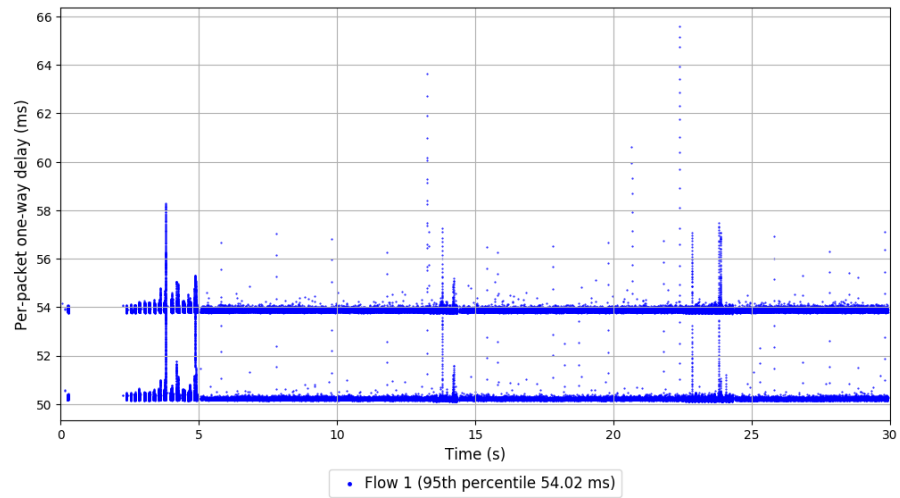
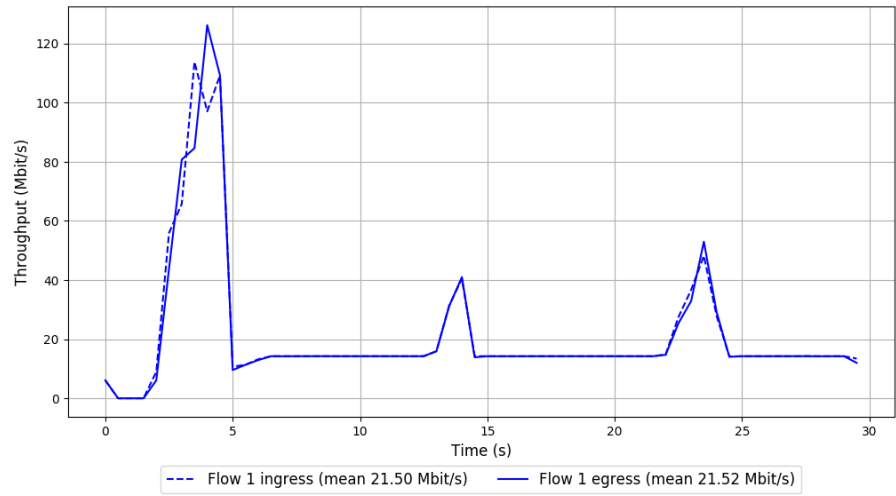
-- Flow 1:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 54.021 ms

Loss rate: 0.22%

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

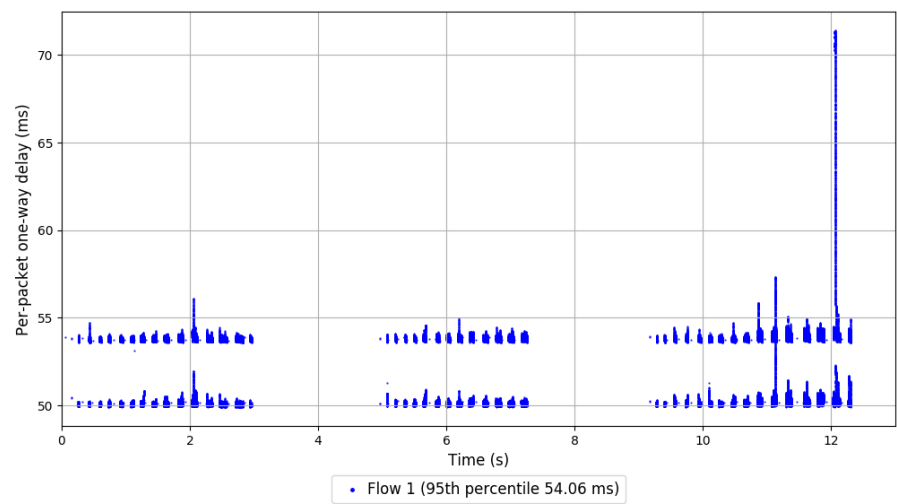
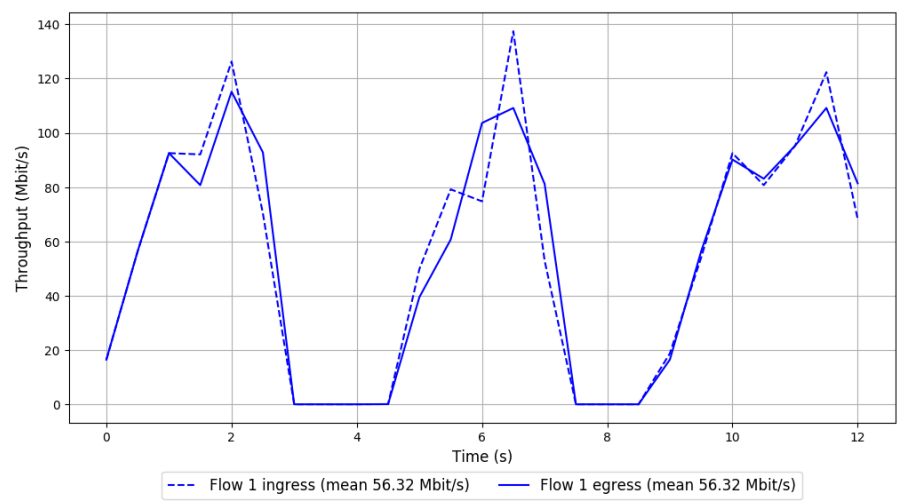


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 13:36:03

End at: 2018-04-17 13:36:33

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

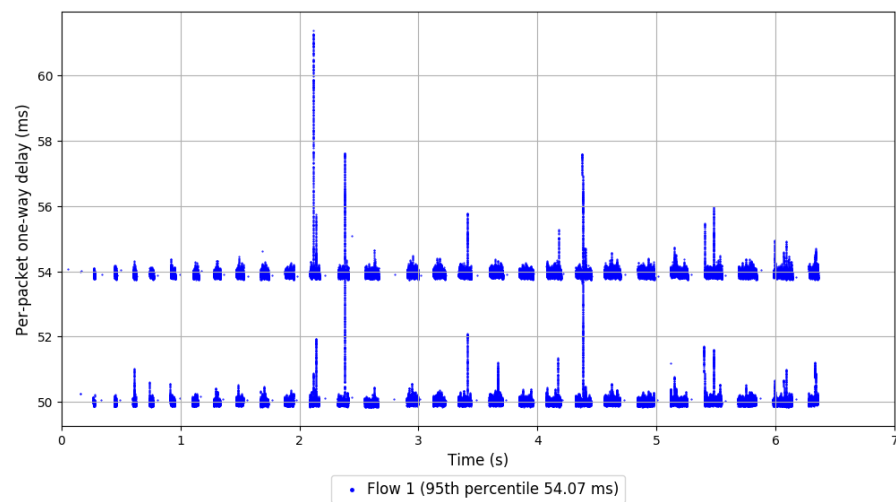
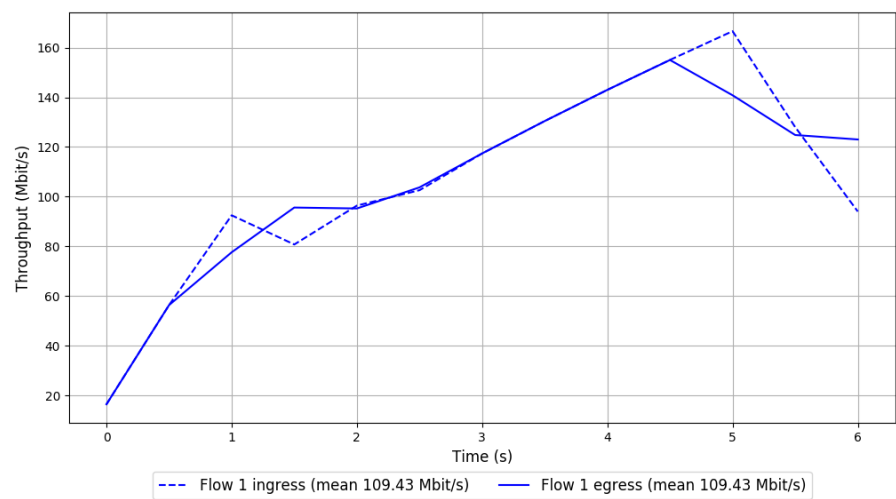


Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 13:48:48

End at: 2018-04-17 13:49:18

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 14:01:24

End at: 2018-04-17 14:01:54

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.21 Mbit/s

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

Loss rate: 0.20%

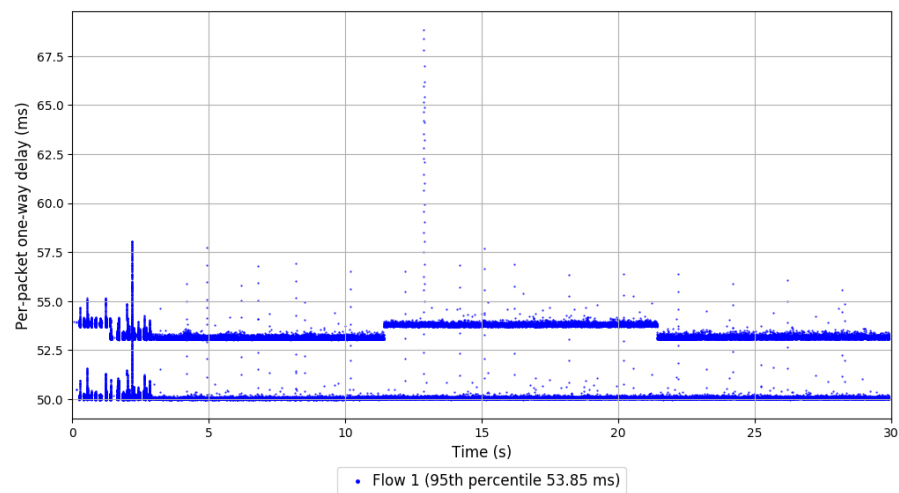
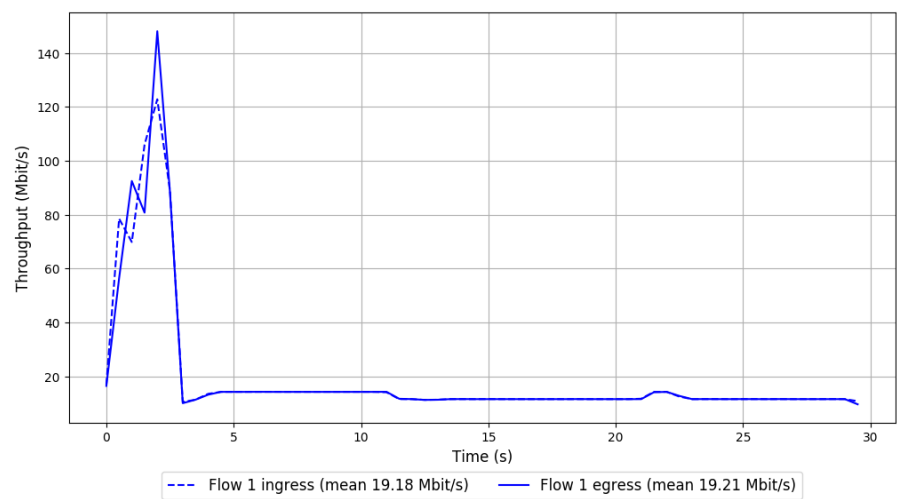
-- Flow 1:

Average throughput: 19.21 Mbit/s

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

Loss rate: 0.20%

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

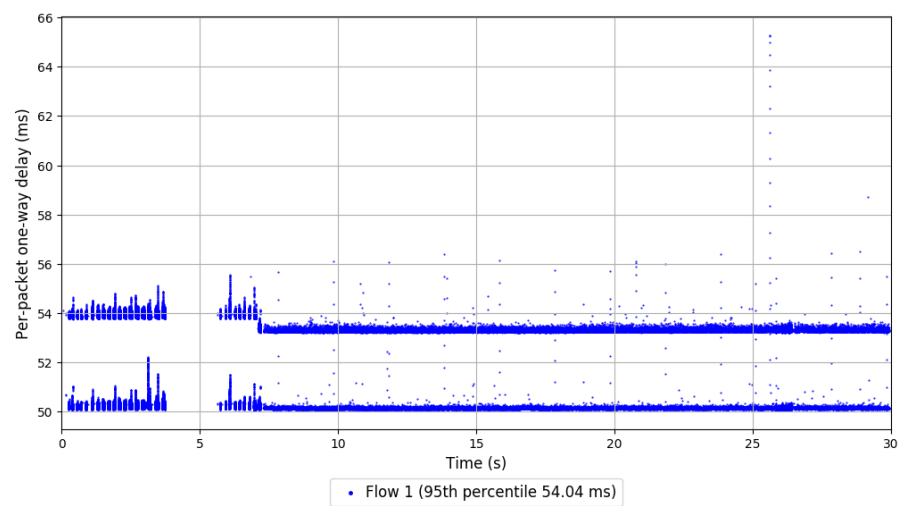
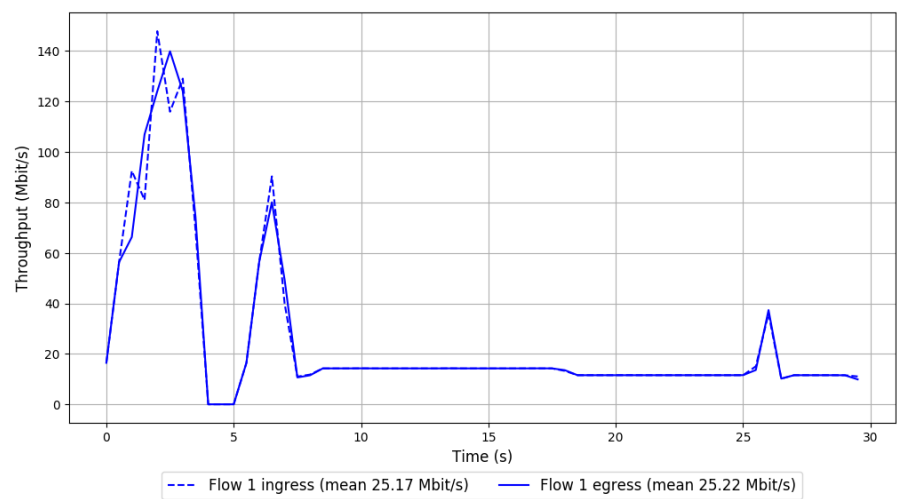


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 14:14:09
End at: 2018-04-17 14:14:39

# Below is generated by plot.py at 2018-04-17 17:06:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 54.037 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 54.037 ms
Loss rate: 0.15%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 12:25:46

End at: 2018-04-17 12:26:16

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 51.296 ms

Loss rate: 0.35%

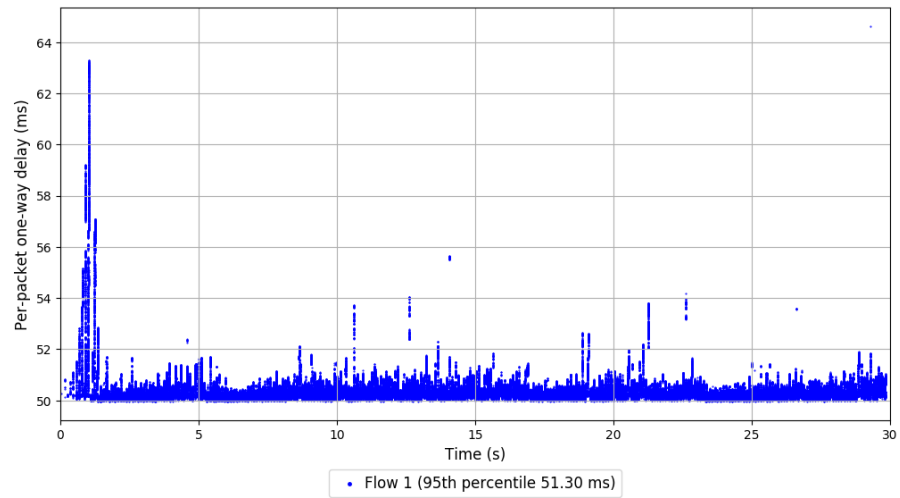
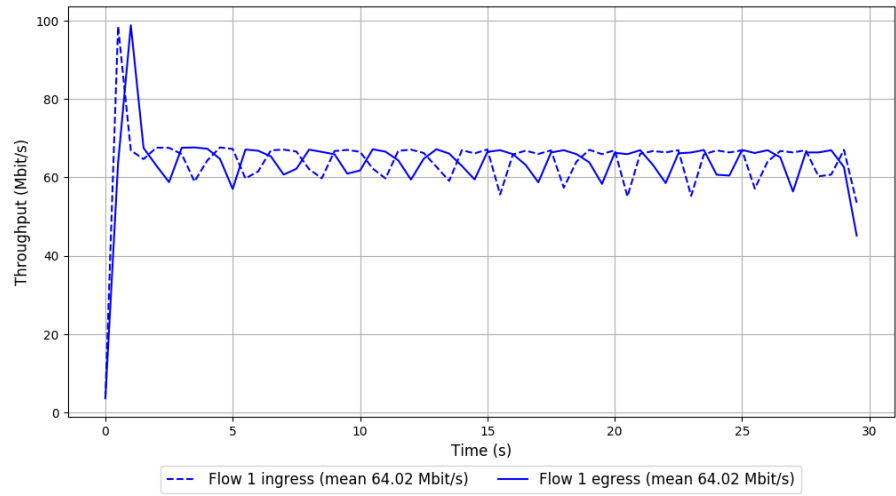
-- Flow 1:

Average throughput: 64.02 Mbit/s

95th percentile per-packet one-way delay: 51.296 ms

Loss rate: 0.35%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 12:38:26

End at: 2018-04-17 12:38:56

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 51.526 ms

Loss rate: 0.27%

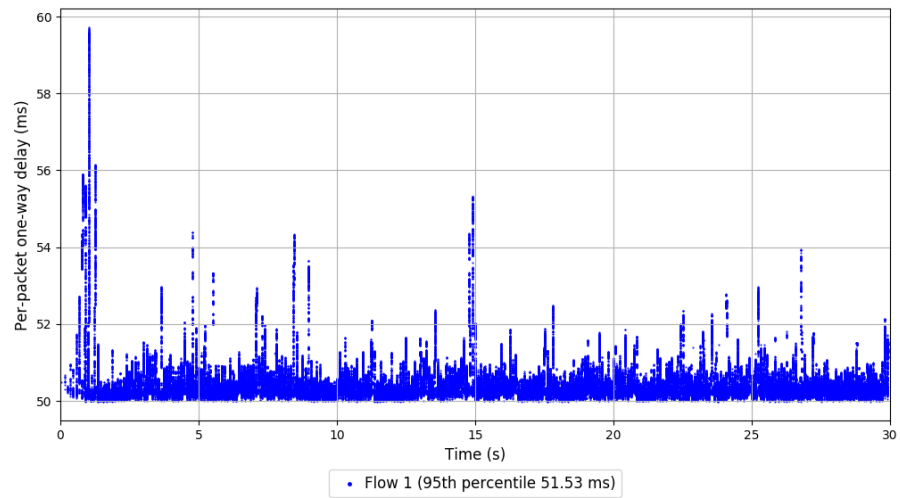
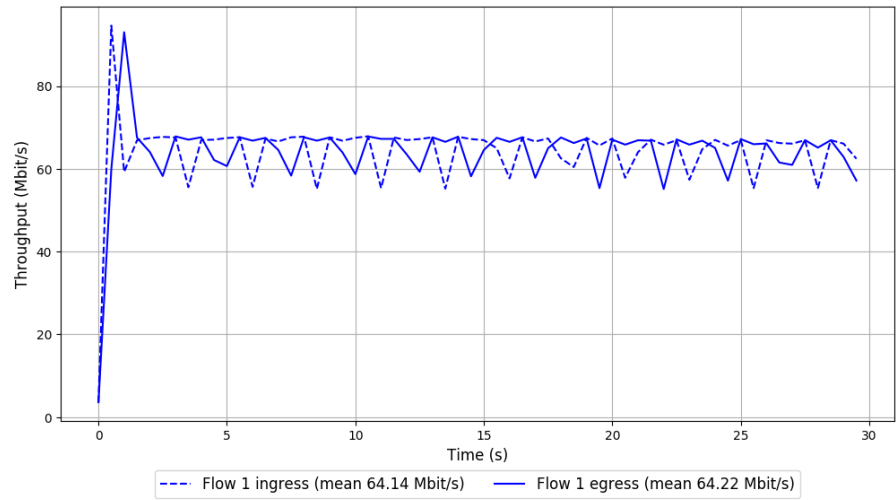
-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 51.526 ms

Loss rate: 0.27%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 12:51:02

End at: 2018-04-17 12:51:32

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.53 Mbit/s

95th percentile per-packet one-way delay: 51.849 ms

Loss rate: 0.33%

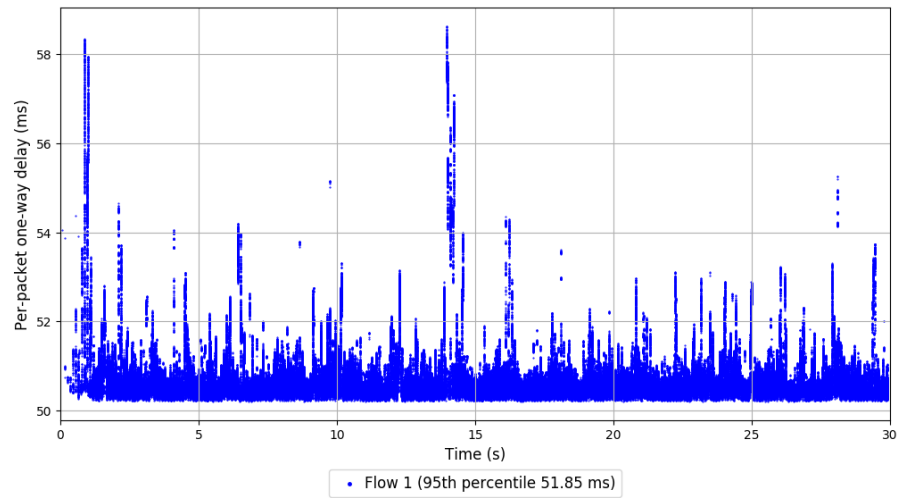
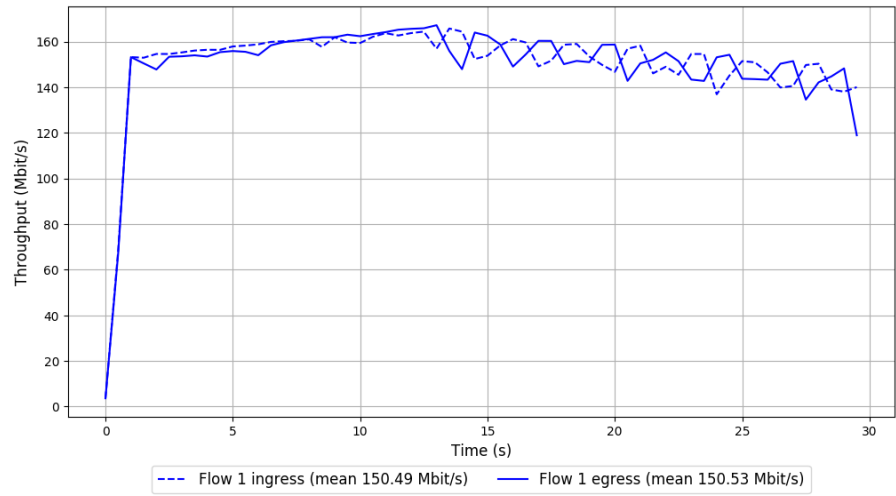
-- Flow 1:

Average throughput: 150.53 Mbit/s

95th percentile per-packet one-way delay: 51.849 ms

Loss rate: 0.33%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 13:03:49

End at: 2018-04-17 13:04:19

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 51.673 ms

Loss rate: 0.34%

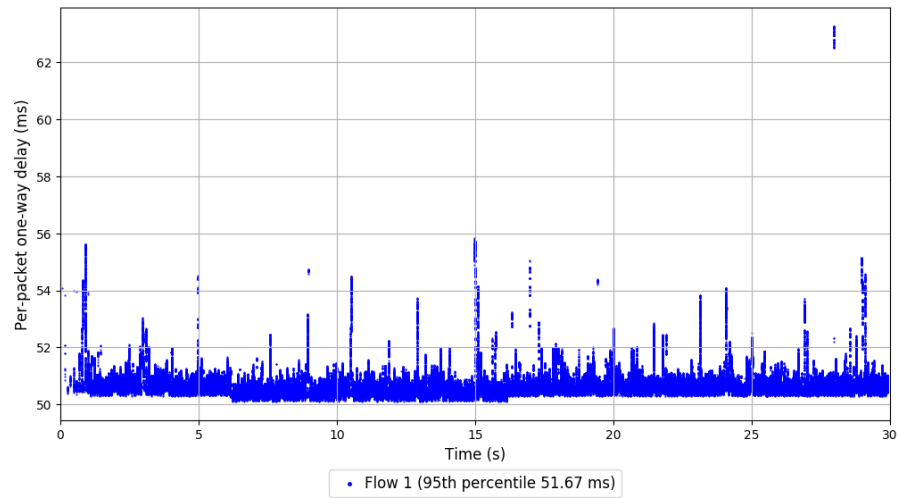
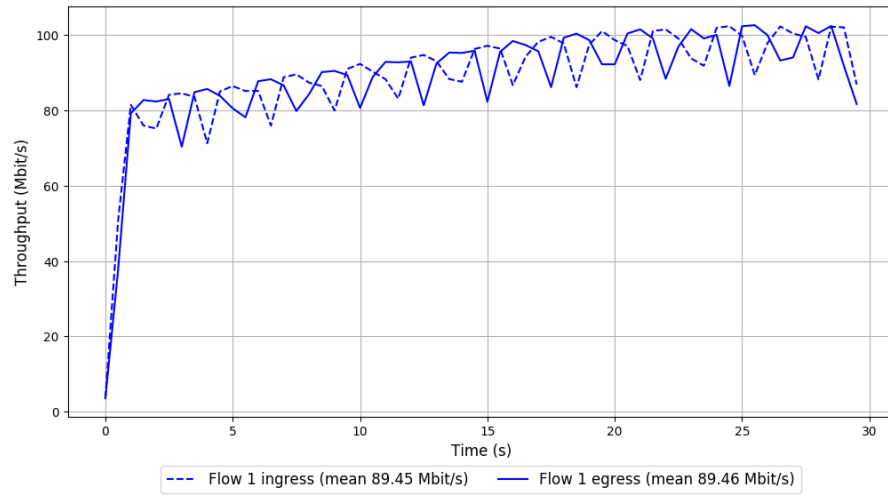
-- Flow 1:

Average throughput: 89.46 Mbit/s

95th percentile per-packet one-way delay: 51.673 ms

Loss rate: 0.34%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-17 13:16:54

End at: 2018-04-17 13:17:24

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.91 Mbit/s

95th percentile per-packet one-way delay: 52.324 ms

Loss rate: 0.37%

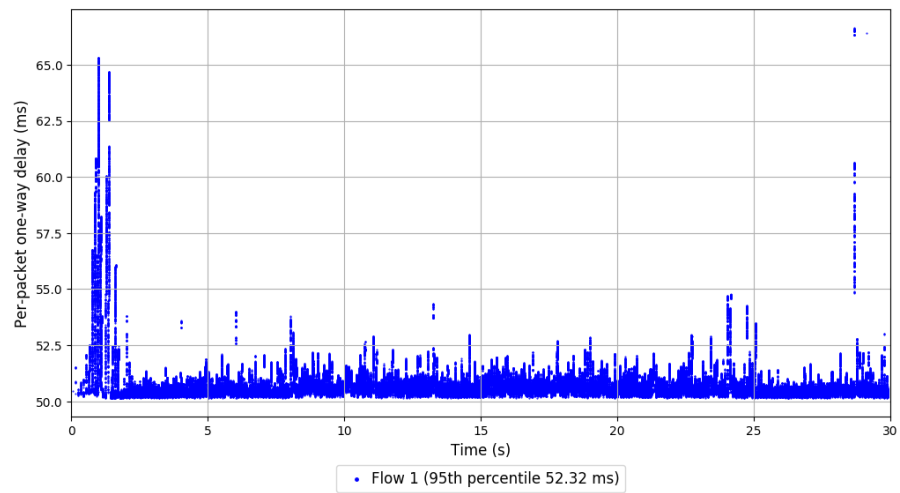
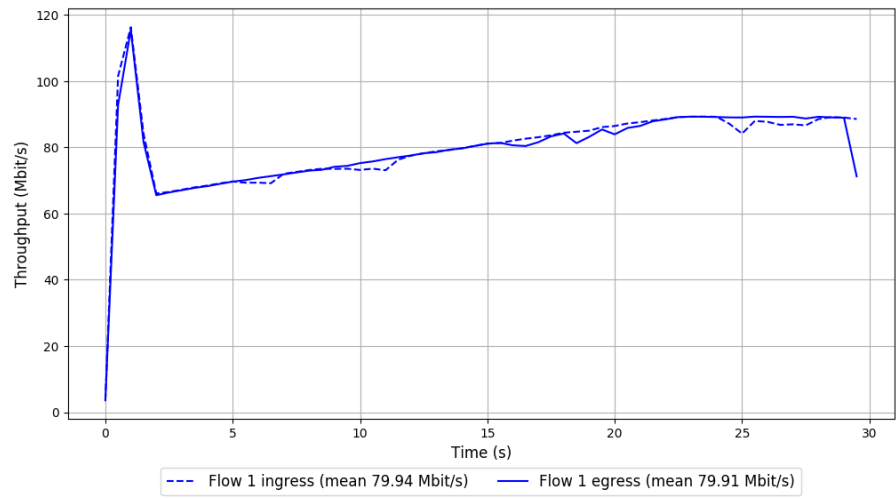
-- Flow 1:

Average throughput: 79.91 Mbit/s

95th percentile per-packet one-way delay: 52.324 ms

Loss rate: 0.37%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 13:29:39

End at: 2018-04-17 13:30:09

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 51.450 ms

Loss rate: 0.38%

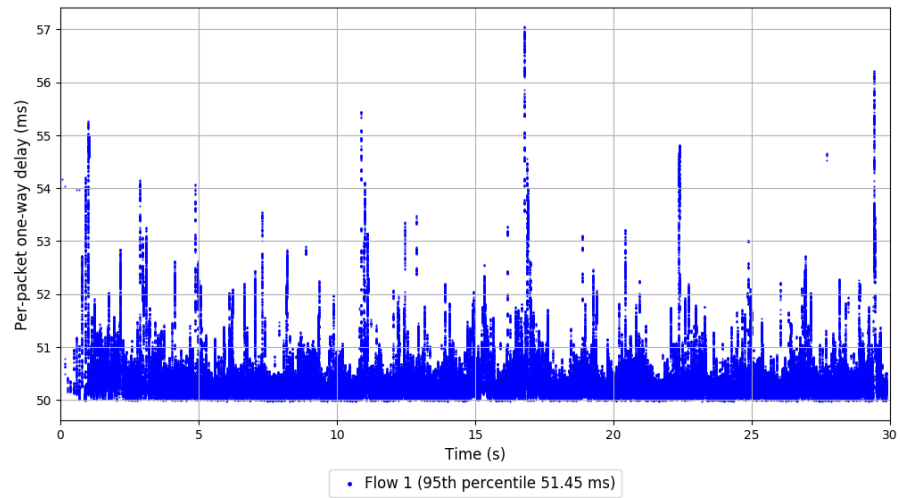
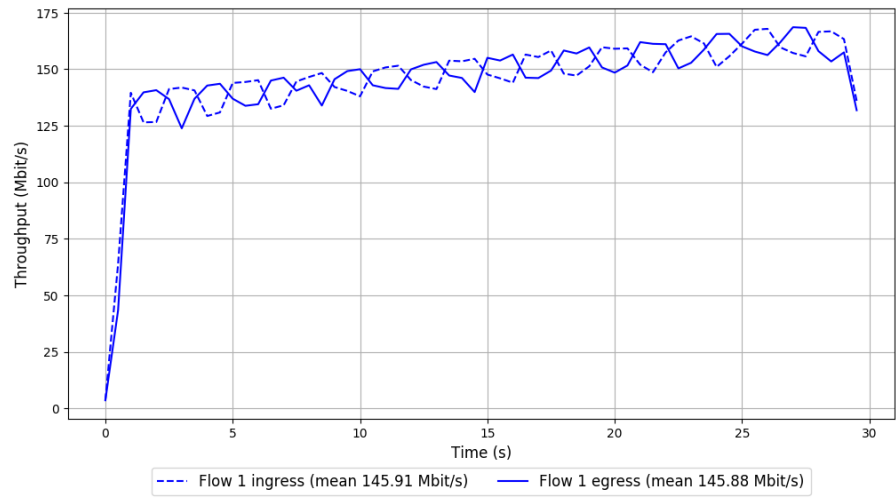
-- Flow 1:

Average throughput: 145.88 Mbit/s

95th percentile per-packet one-way delay: 51.450 ms

Loss rate: 0.38%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 13:42:28

End at: 2018-04-17 13:42:58

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.66 Mbit/s

95th percentile per-packet one-way delay: 51.586 ms

Loss rate: 0.33%

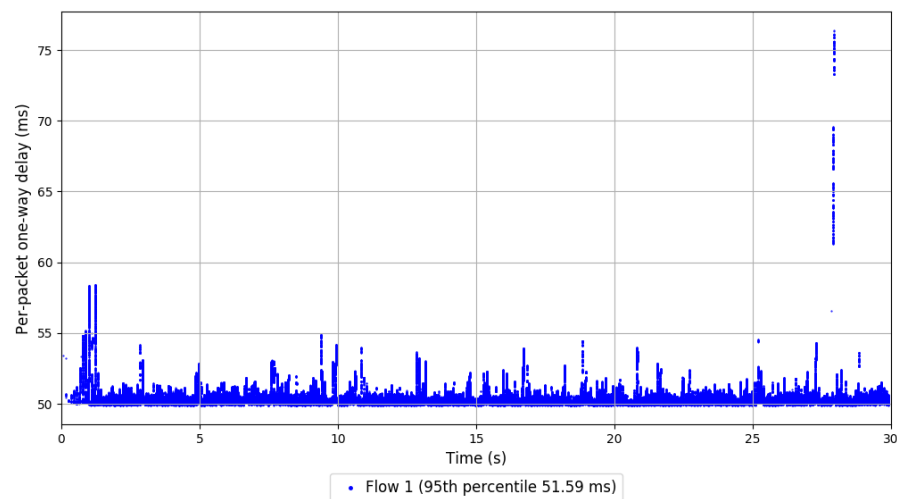
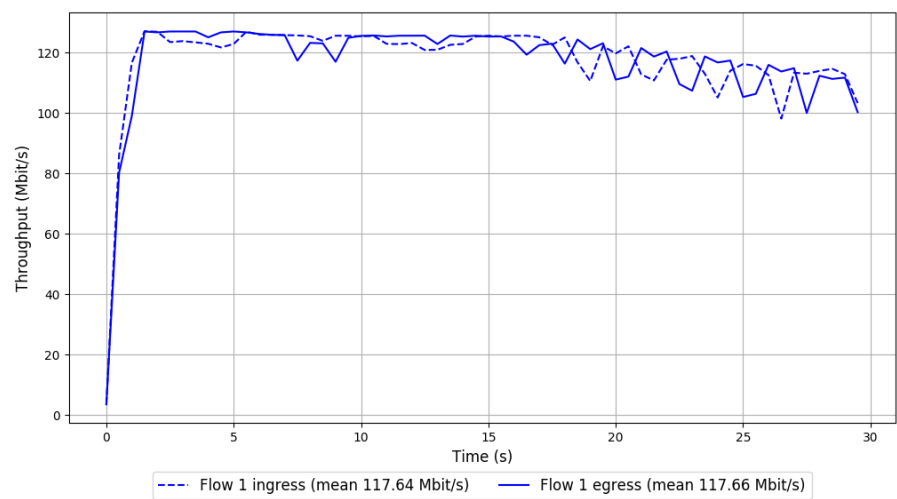
-- Flow 1:

Average throughput: 117.66 Mbit/s

95th percentile per-packet one-way delay: 51.586 ms

Loss rate: 0.33%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 13:55:10

End at: 2018-04-17 13:55:40

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 51.333 ms

Loss rate: 0.28%

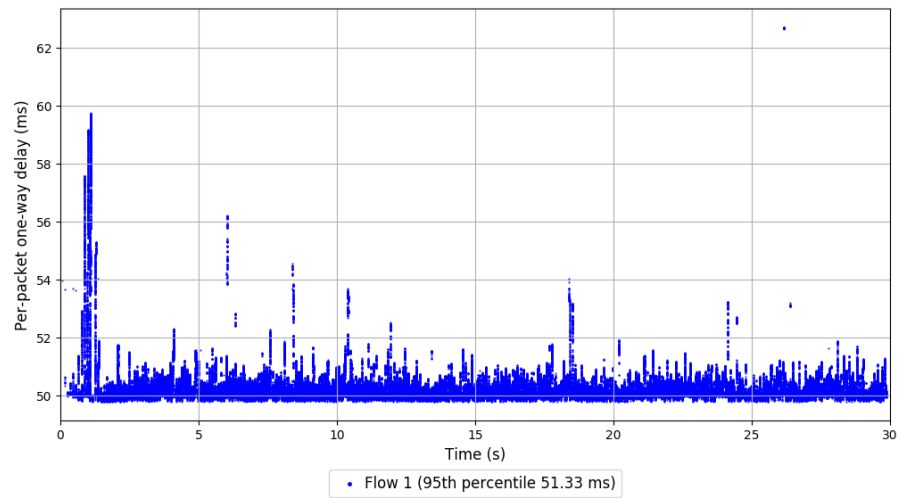
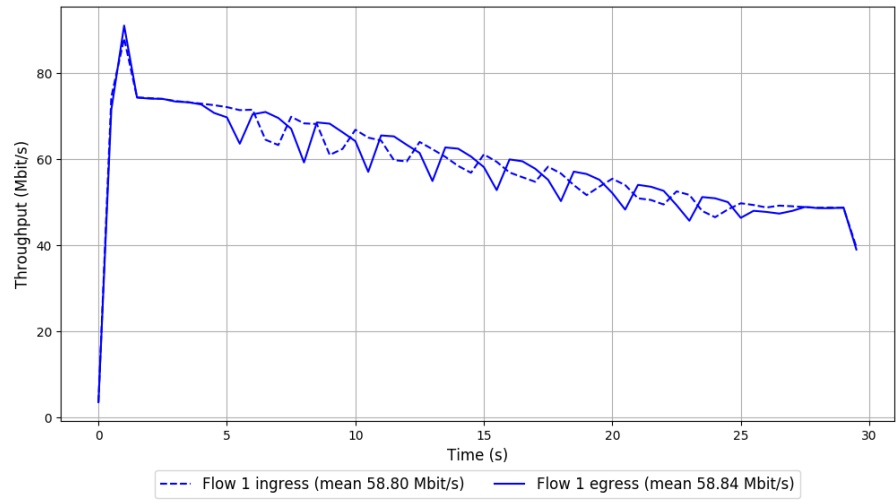
-- Flow 1:

Average throughput: 58.84 Mbit/s

95th percentile per-packet one-way delay: 51.333 ms

Loss rate: 0.28%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 14:07:48

End at: 2018-04-17 14:08:18

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.13 Mbit/s

95th percentile per-packet one-way delay: 51.692 ms

Loss rate: 0.34%

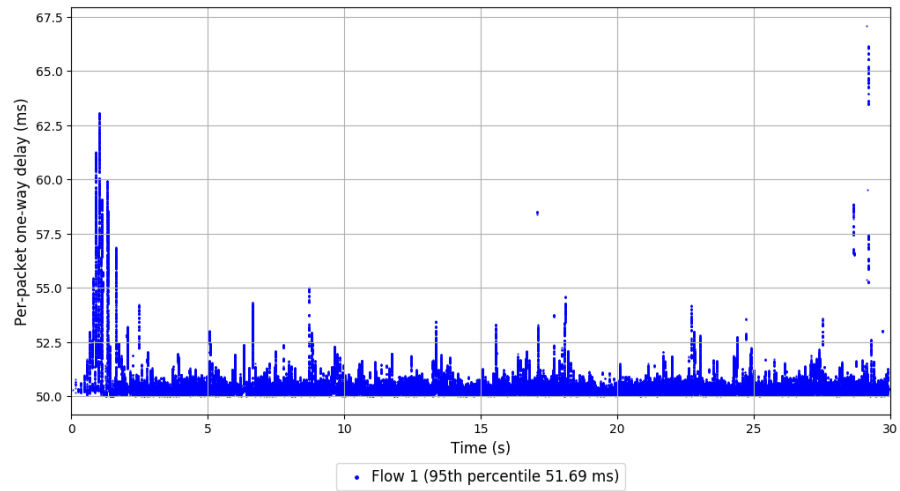
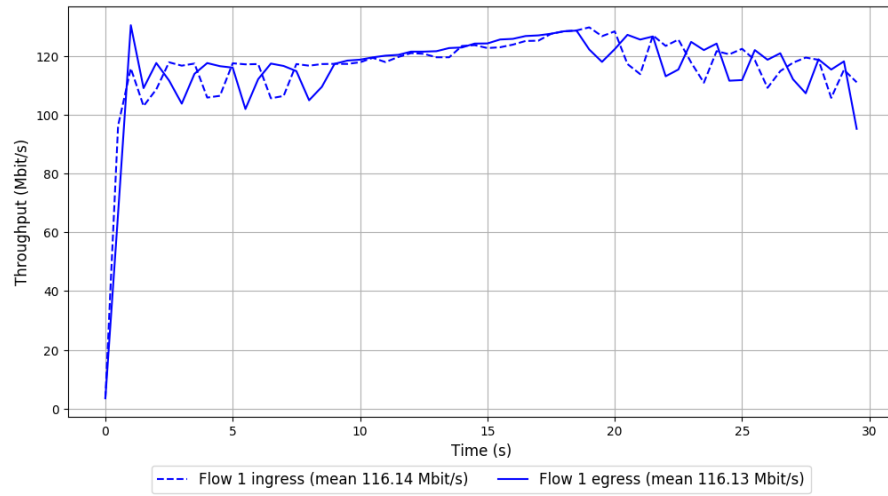
-- Flow 1:

Average throughput: 116.13 Mbit/s

95th percentile per-packet one-way delay: 51.692 ms

Loss rate: 0.34%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 14:20:33

End at: 2018-04-17 14:21:03

Below is generated by plot.py at 2018-04-17 17:06:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.37%

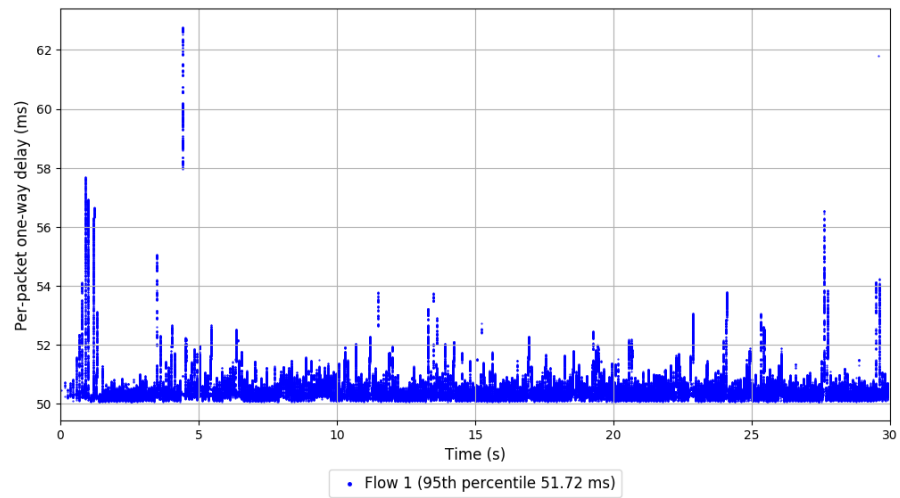
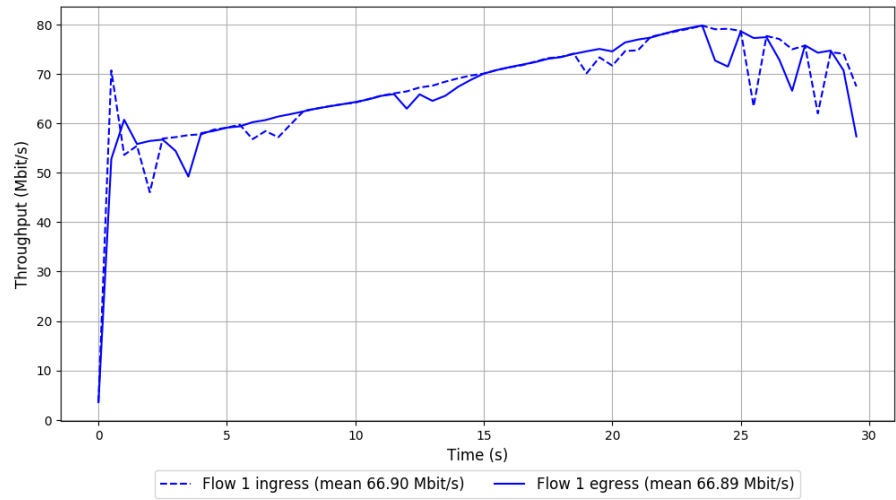
-- Flow 1:

Average throughput: 66.89 Mbit/s

95th percentile per-packet one-way delay: 51.719 ms

Loss rate: 0.37%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-17 12:29:29

End at: 2018-04-17 12:29:59

Below is generated by plot.py at 2018-04-17 17:06:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.45 Mbit/s

95th percentile per-packet one-way delay: 96.194 ms

Loss rate: 0.04%

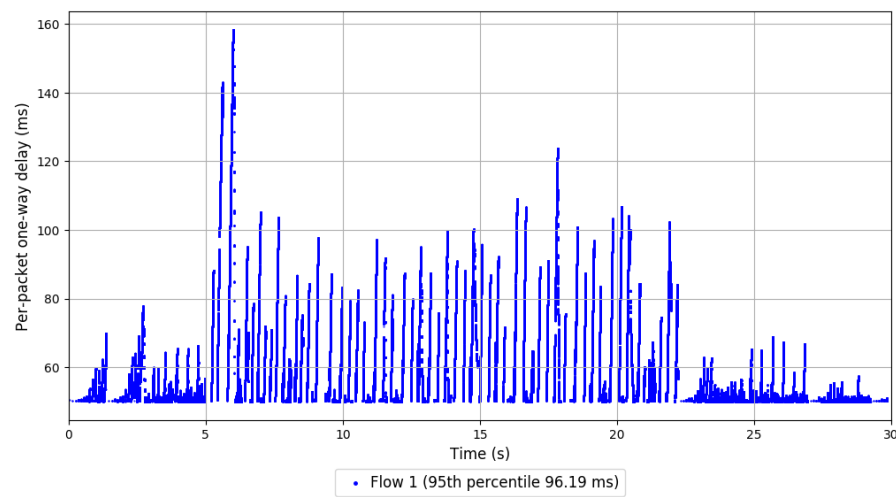
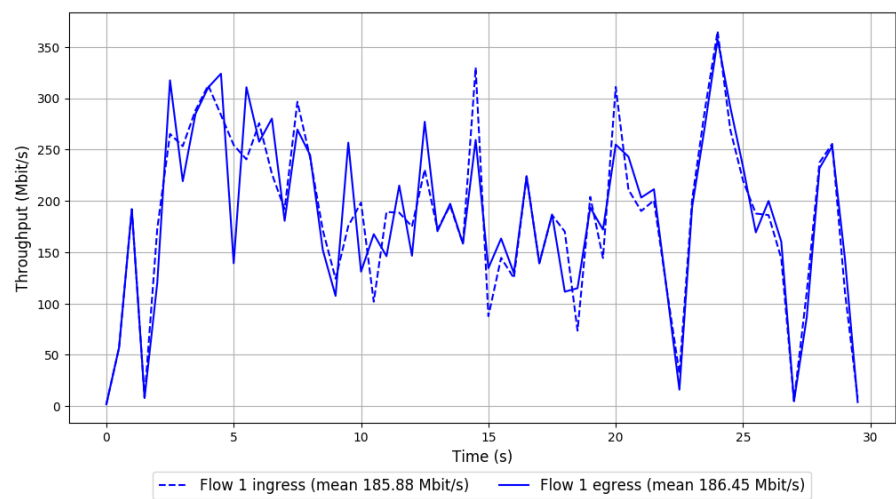
-- Flow 1:

Average throughput: 186.45 Mbit/s

95th percentile per-packet one-way delay: 96.194 ms

Loss rate: 0.04%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-17 12:42:08

End at: 2018-04-17 12:42:38

Below is generated by plot.py at 2018-04-17 17:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.35 Mbit/s

95th percentile per-packet one-way delay: 80.677 ms

Loss rate: 0.32%

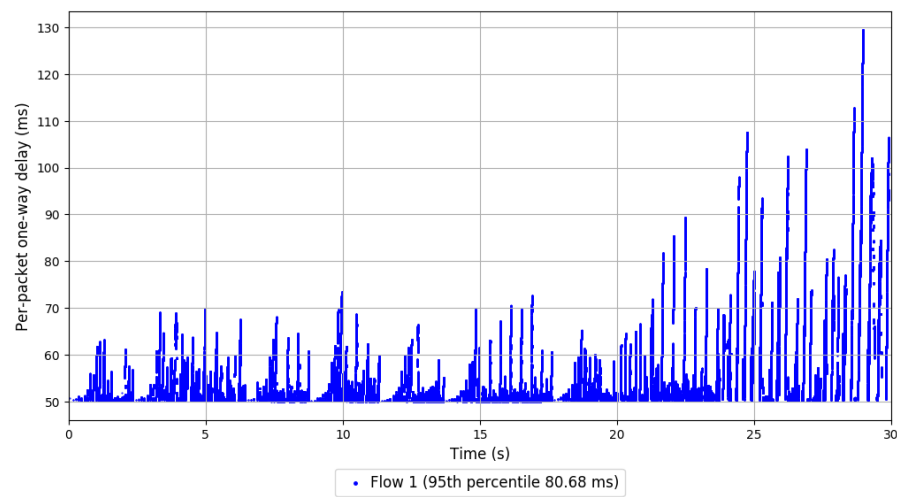
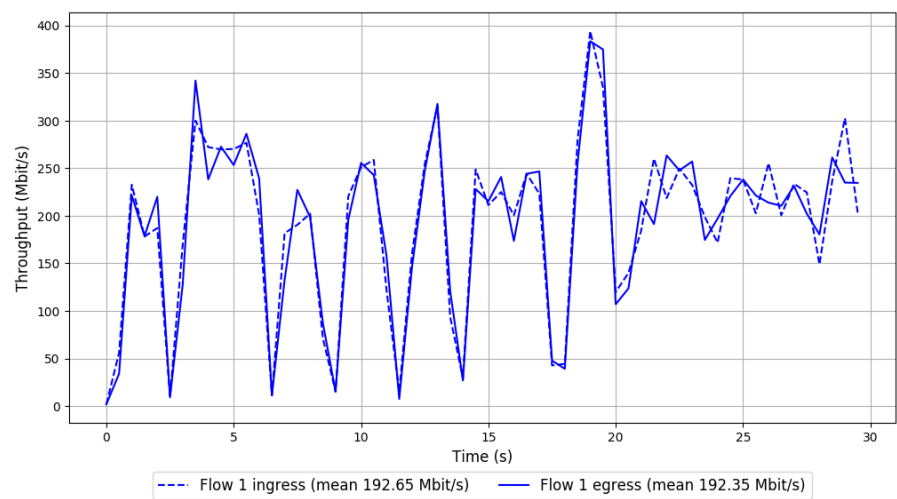
-- Flow 1:

Average throughput: 192.35 Mbit/s

95th percentile per-packet one-way delay: 80.677 ms

Loss rate: 0.32%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 12:54:49

End at: 2018-04-17 12:55:19

Below is generated by plot.py at 2018-04-17 17:07:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.78 Mbit/s

95th percentile per-packet one-way delay: 100.682 ms

Loss rate: 0.00%

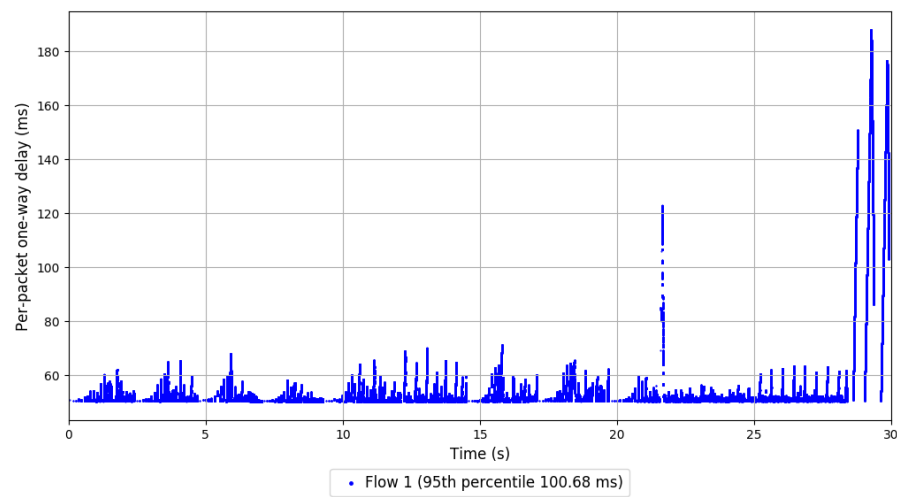
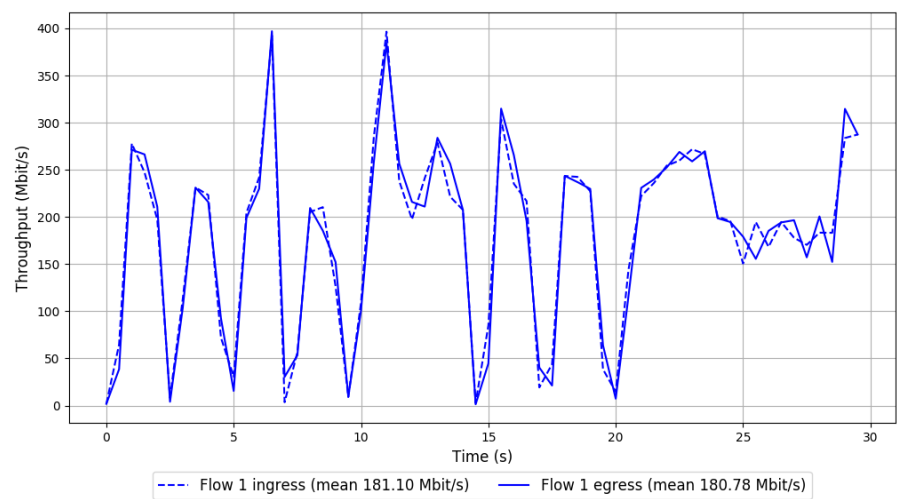
-- Flow 1:

Average throughput: 180.78 Mbit/s

95th percentile per-packet one-way delay: 100.682 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-17 13:07:35

End at: 2018-04-17 13:08:05

Below is generated by plot.py at 2018-04-17 17:08:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.38 Mbit/s

95th percentile per-packet one-way delay: 162.931 ms

Loss rate: 0.00%

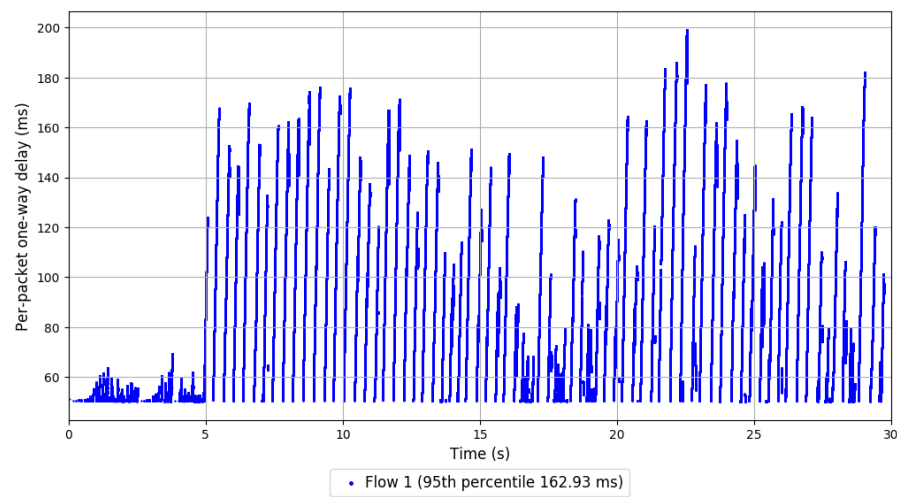
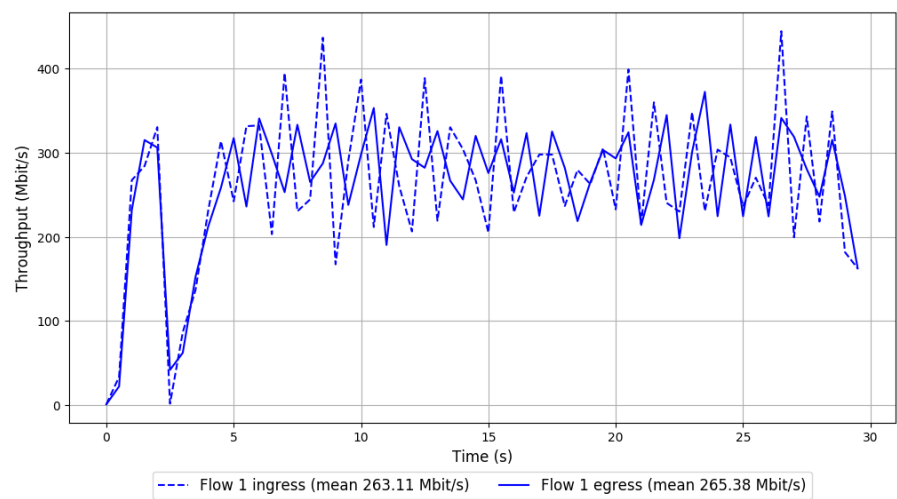
-- Flow 1:

Average throughput: 265.38 Mbit/s

95th percentile per-packet one-way delay: 162.931 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-17 13:20:42

End at: 2018-04-17 13:21:12

Below is generated by plot.py at 2018-04-17 17:08:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.87 Mbit/s

95th percentile per-packet one-way delay: 141.726 ms

Loss rate: 0.06%

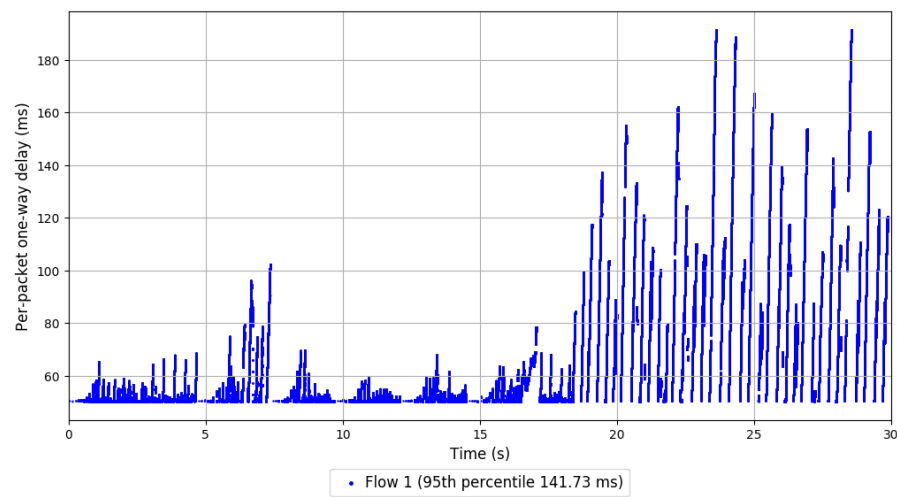
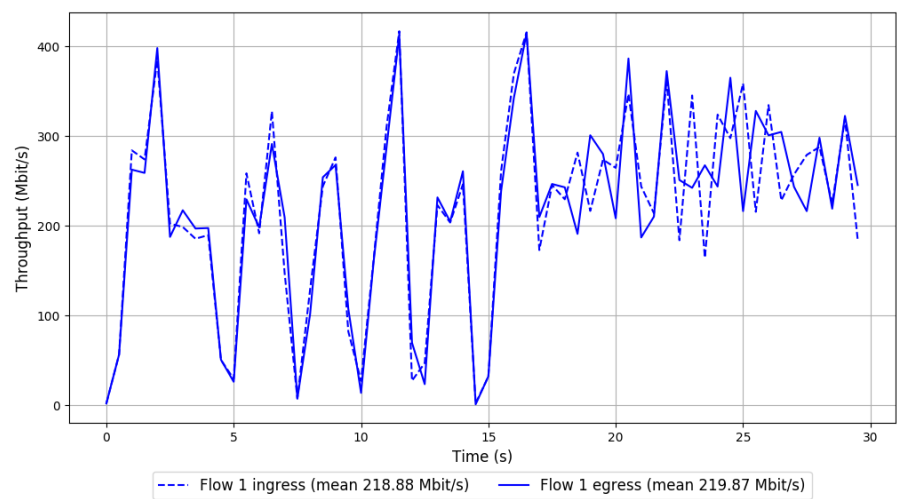
-- Flow 1:

Average throughput: 219.87 Mbit/s

95th percentile per-packet one-way delay: 141.726 ms

Loss rate: 0.06%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 13:33:29

End at: 2018-04-17 13:33:59

Below is generated by plot.py at 2018-04-17 17:08:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.45 Mbit/s

95th percentile per-packet one-way delay: 153.112 ms

Loss rate: 0.51%

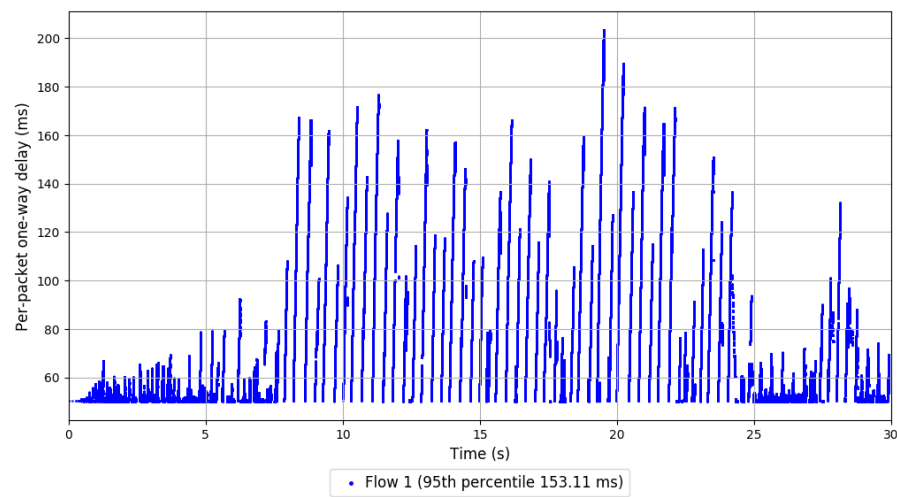
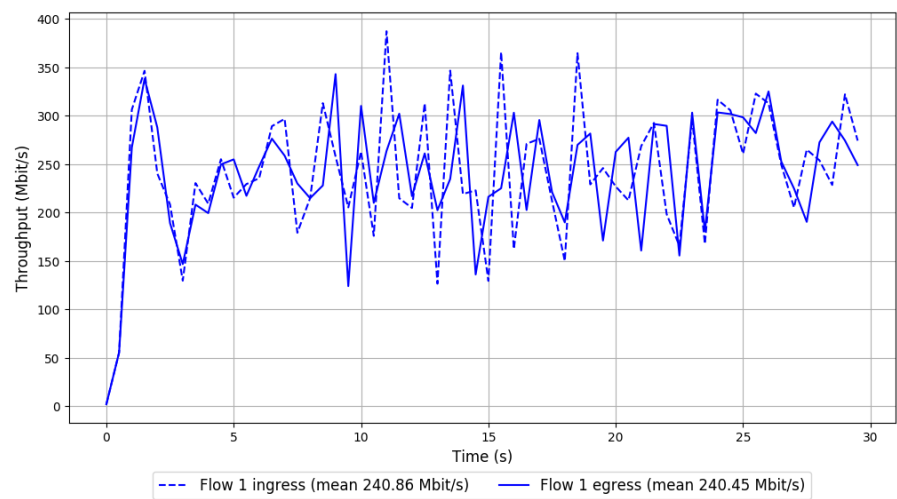
-- Flow 1:

Average throughput: 240.45 Mbit/s

95th percentile per-packet one-way delay: 153.112 ms

Loss rate: 0.51%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-17 13:46:14

End at: 2018-04-17 13:46:44

Below is generated by plot.py at 2018-04-17 17:09:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 245.82 Mbit/s

95th percentile per-packet one-way delay: 152.035 ms

Loss rate: 0.00%

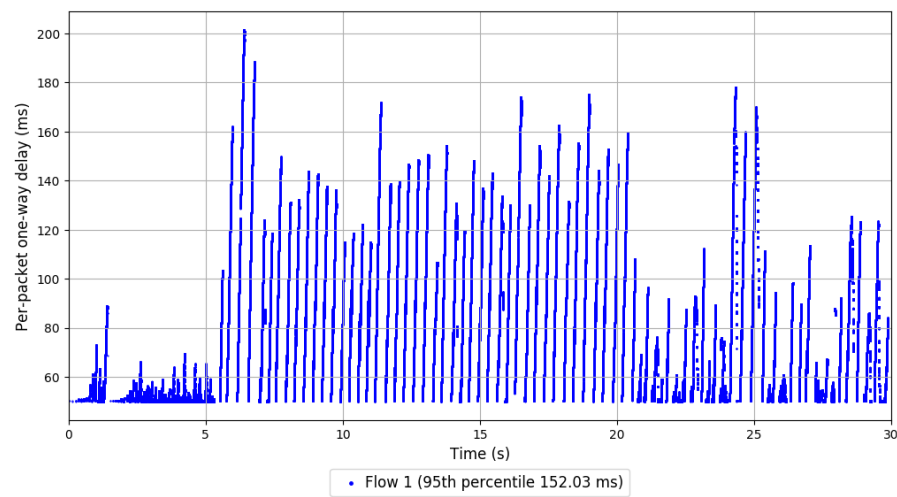
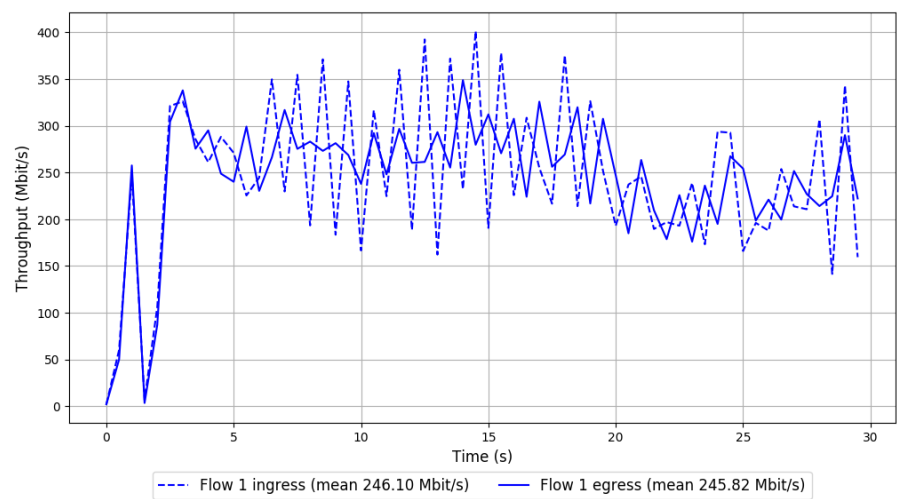
-- Flow 1:

Average throughput: 245.82 Mbit/s

95th percentile per-packet one-way delay: 152.035 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-17 13:58:51

End at: 2018-04-17 13:59:21

Below is generated by plot.py at 2018-04-17 17:10:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.61 Mbit/s

95th percentile per-packet one-way delay: 143.698 ms

Loss rate: 0.66%

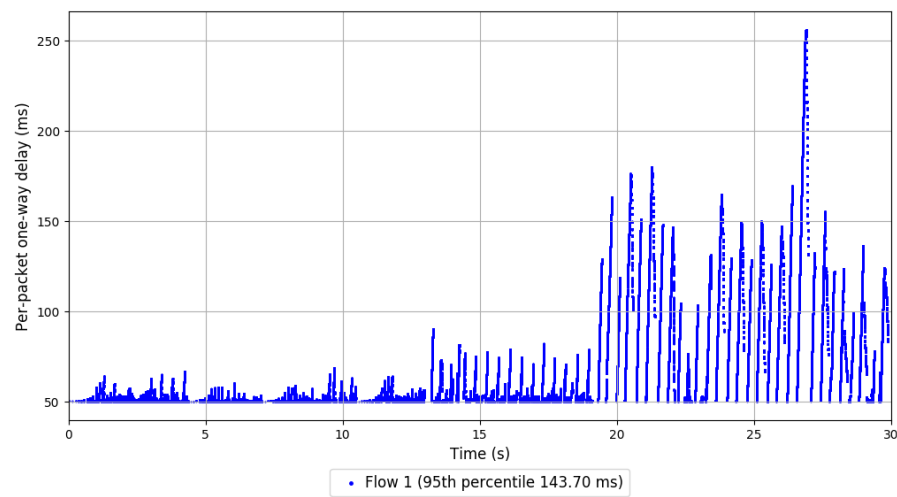
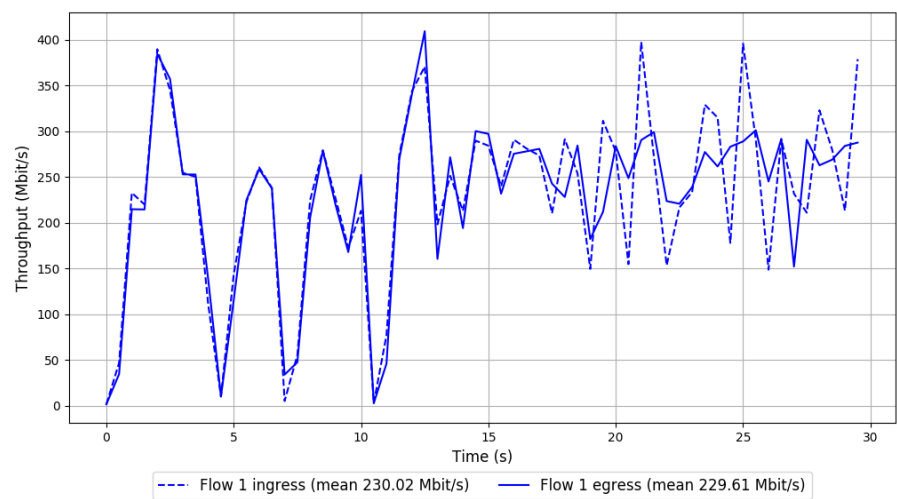
-- Flow 1:

Average throughput: 229.61 Mbit/s

95th percentile per-packet one-way delay: 143.698 ms

Loss rate: 0.66%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 14:11:34

End at: 2018-04-17 14:12:04

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.45 Mbit/s

95th percentile per-packet one-way delay: 142.179 ms

Loss rate: 1.28%

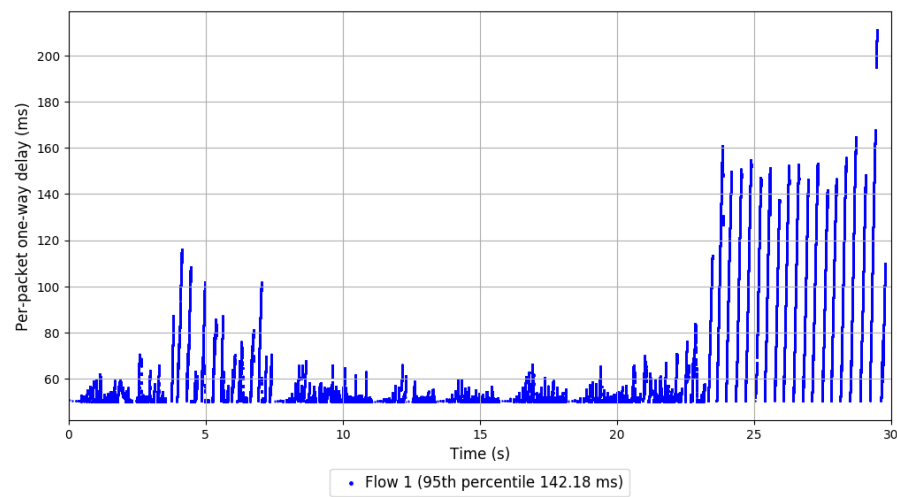
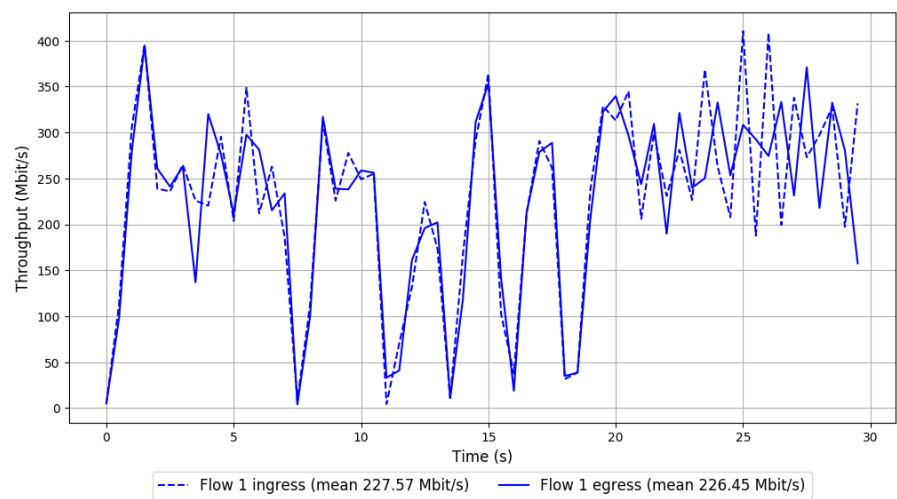
-- Flow 1:

Average throughput: 226.45 Mbit/s

95th percentile per-packet one-way delay: 142.179 ms

Loss rate: 1.28%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-17 14:24:16

End at: 2018-04-17 14:24:46

Below is generated by plot.py at 2018-04-17 17:11:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.65 Mbit/s

95th percentile per-packet one-way delay: 93.614 ms

Loss rate: 0.14%

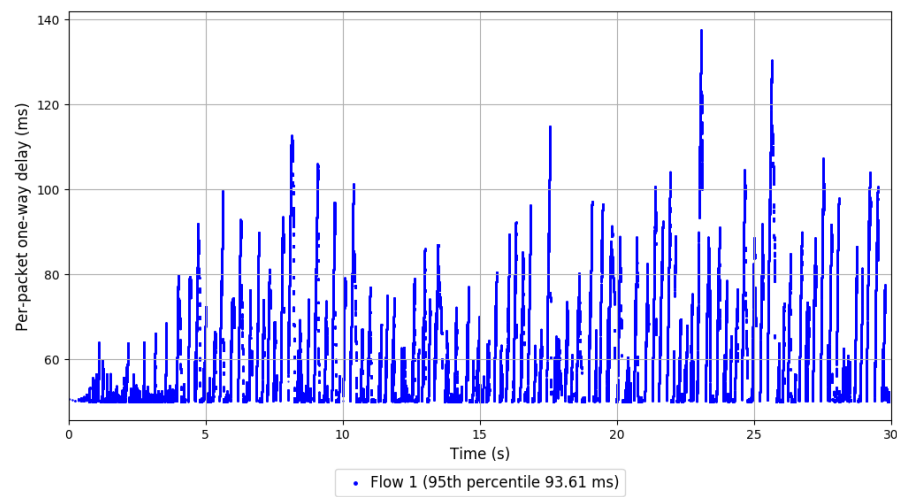
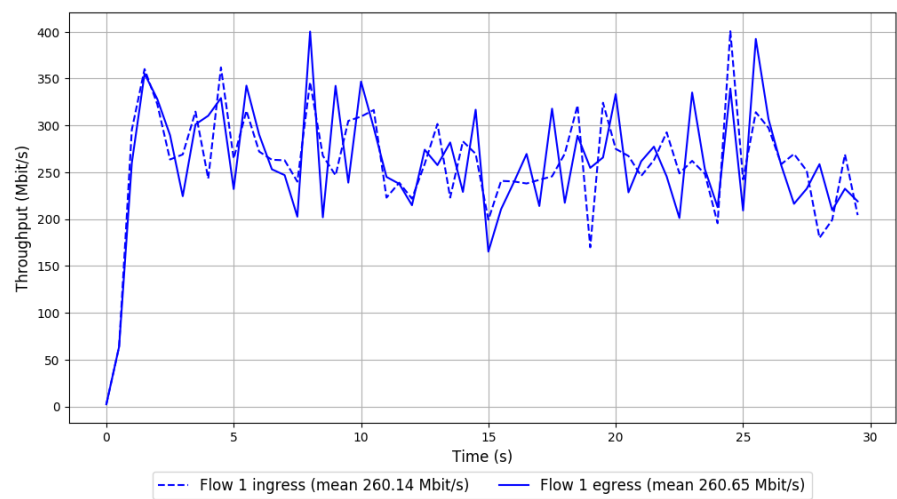
-- Flow 1:

Average throughput: 260.65 Mbit/s

95th percentile per-packet one-way delay: 93.614 ms

Loss rate: 0.14%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 12:20:44

End at: 2018-04-17 12:21:14

Below is generated by plot.py at 2018-04-17 17:11:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.23%

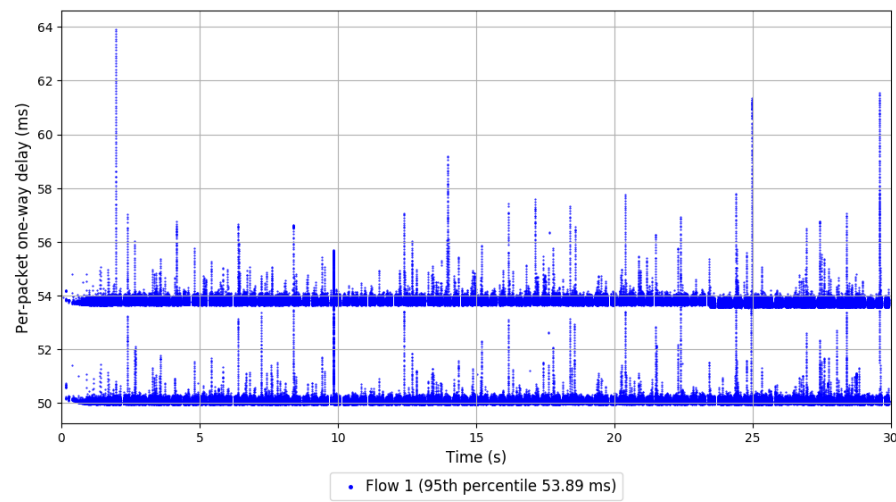
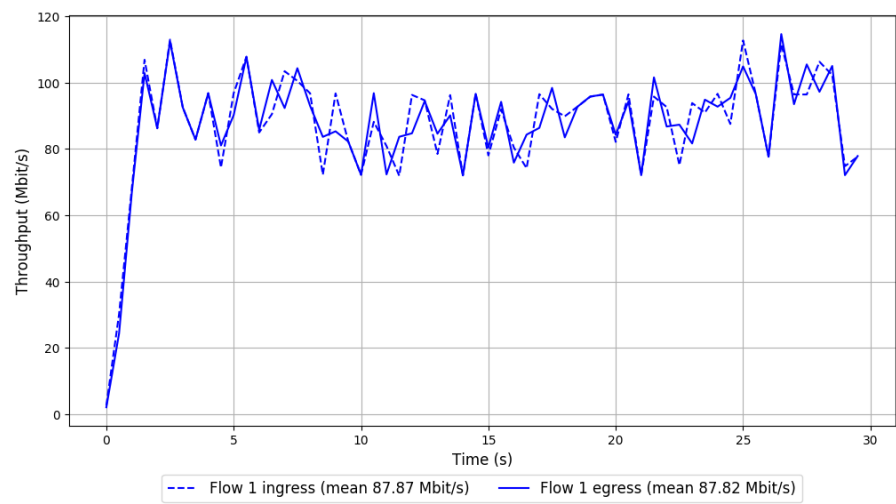
-- Flow 1:

Average throughput: 87.82 Mbit/s

95th percentile per-packet one-way delay: 53.888 ms

Loss rate: 0.23%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 12:33:22

End at: 2018-04-17 12:33:52

Below is generated by plot.py at 2018-04-17 17:11:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 54.004 ms

Loss rate: 0.26%

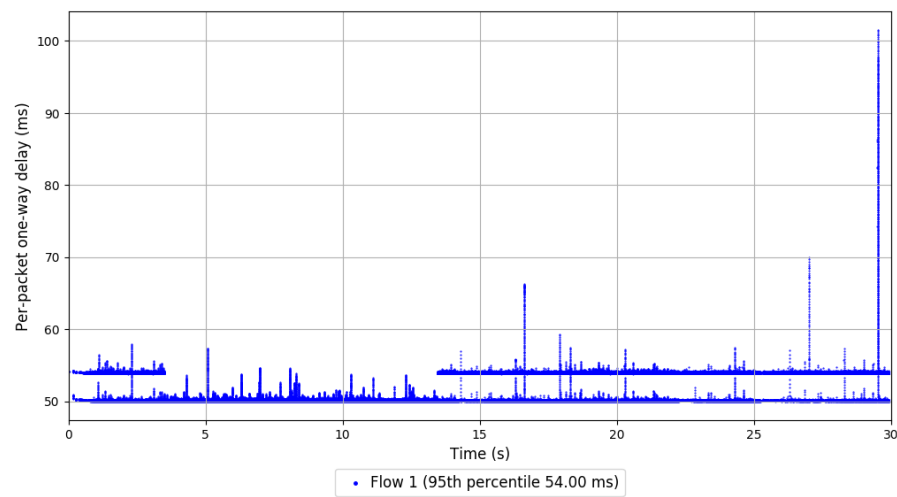
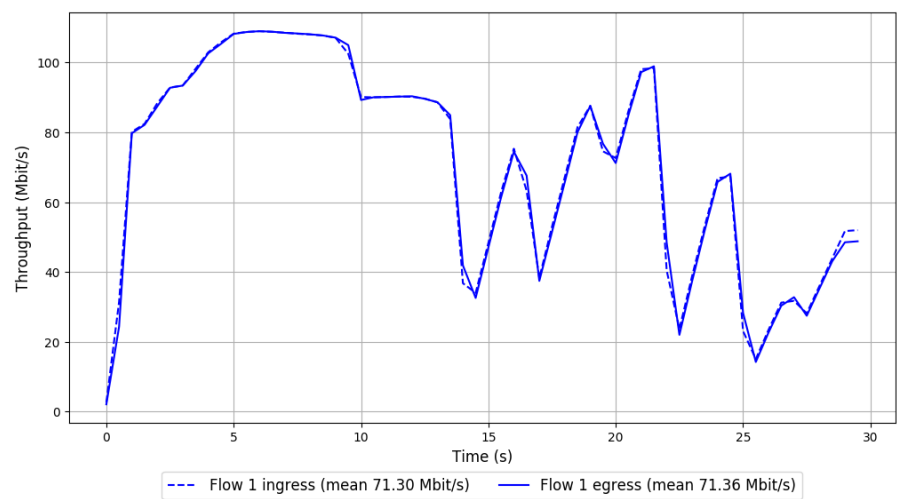
-- Flow 1:

Average throughput: 71.36 Mbit/s

95th percentile per-packet one-way delay: 54.004 ms

Loss rate: 0.26%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-17 12:45:58

End at: 2018-04-17 12:46:28

Below is generated by plot.py at 2018-04-17 17:11:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.50 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.23%

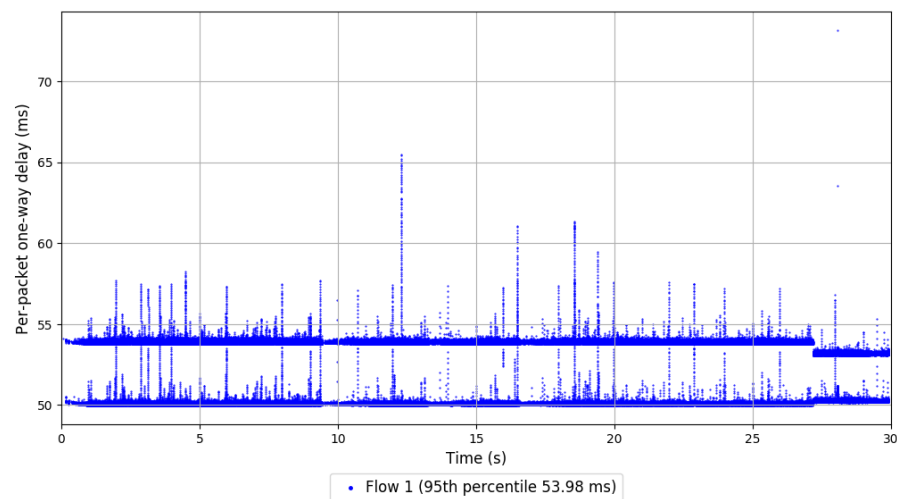
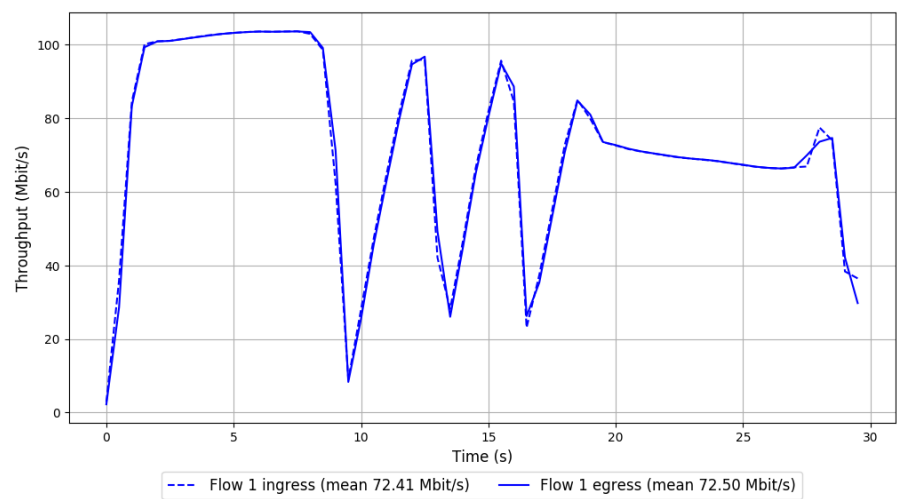
-- Flow 1:

Average throughput: 72.50 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.23%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-17 12:58:46

End at: 2018-04-17 12:59:16

Below is generated by plot.py at 2018-04-17 17:11:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.85 Mbit/s

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

Loss rate: 0.21%

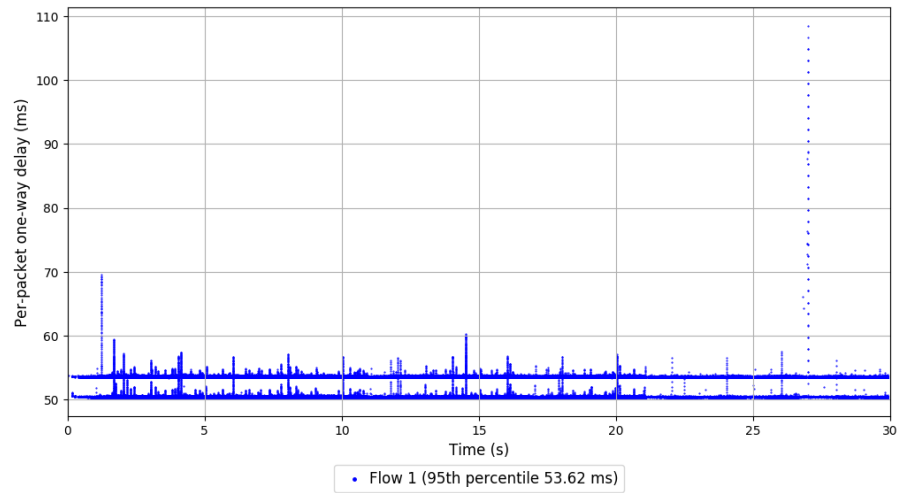
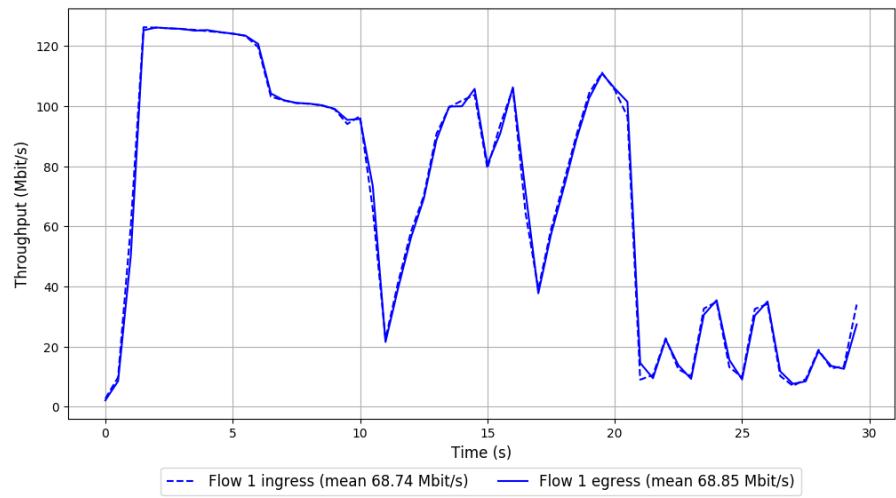
-- Flow 1:

Average throughput: 68.85 Mbit/s

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

Loss rate: 0.21%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-17 13:11:50

End at: 2018-04-17 13:12:20

Below is generated by plot.py at 2018-04-17 17:12:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 53.901 ms

Loss rate: 0.43%

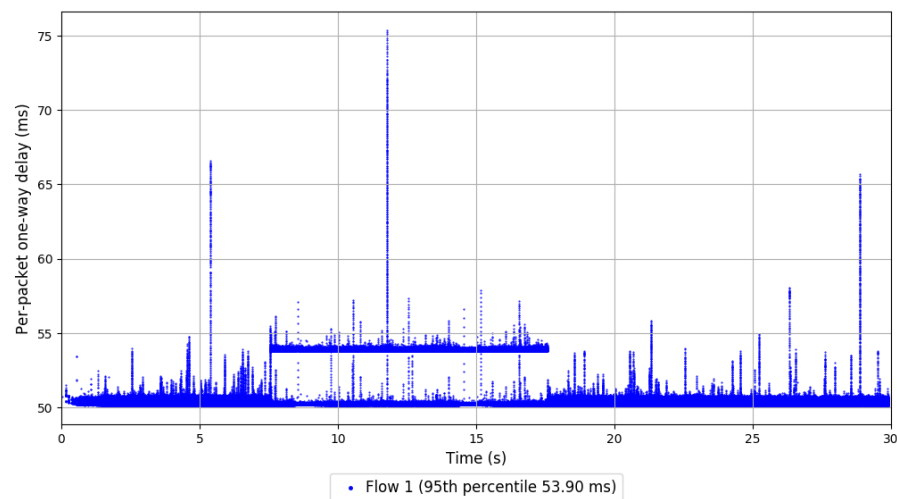
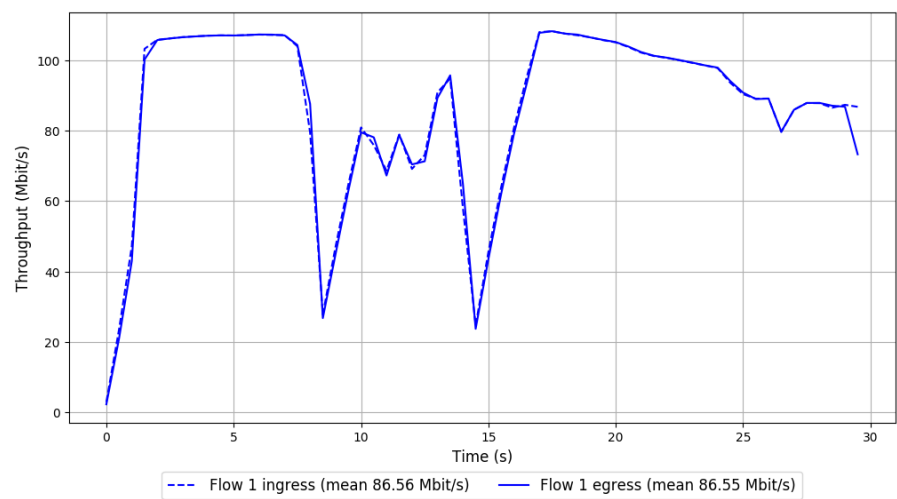
-- Flow 1:

Average throughput: 86.55 Mbit/s

95th percentile per-packet one-way delay: 53.901 ms

Loss rate: 0.43%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 13:24:34

End at: 2018-04-17 13:25:04

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 50.268 ms

Loss rate: 0.32%

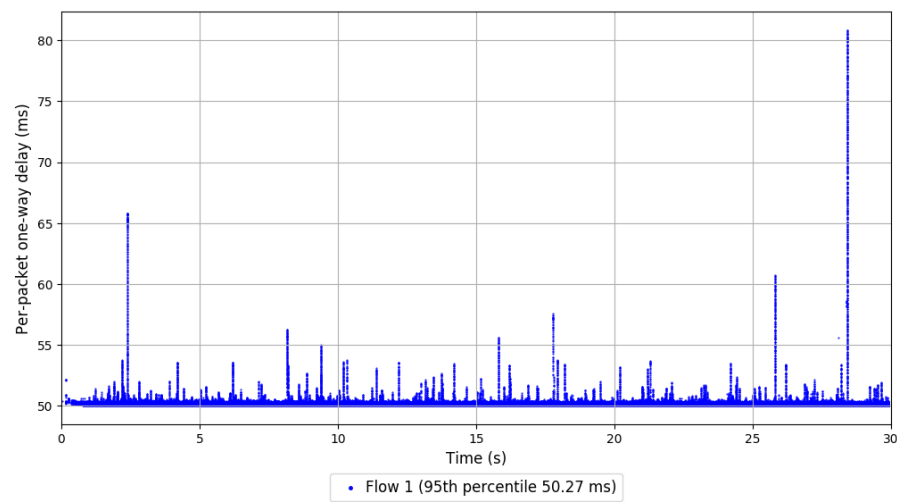
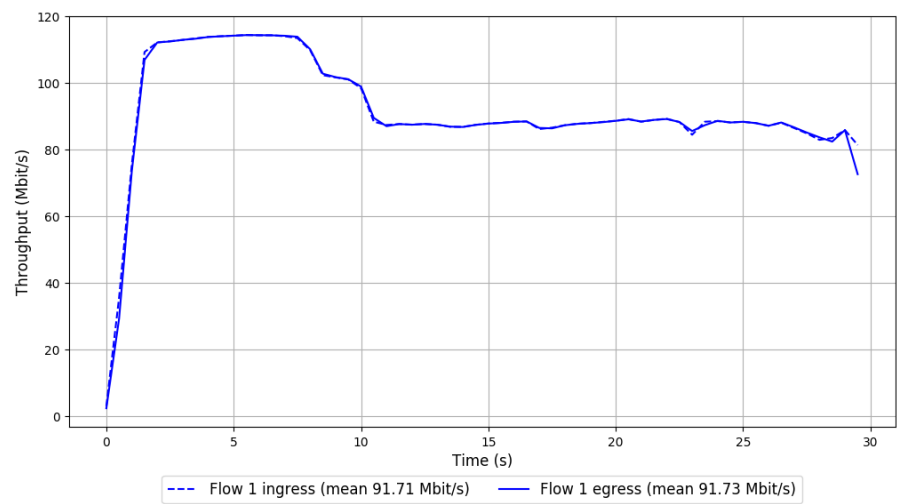
-- Flow 1:

Average throughput: 91.73 Mbit/s

95th percentile per-packet one-way delay: 50.268 ms

Loss rate: 0.32%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 13:37:23

End at: 2018-04-17 13:37:53

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.49%

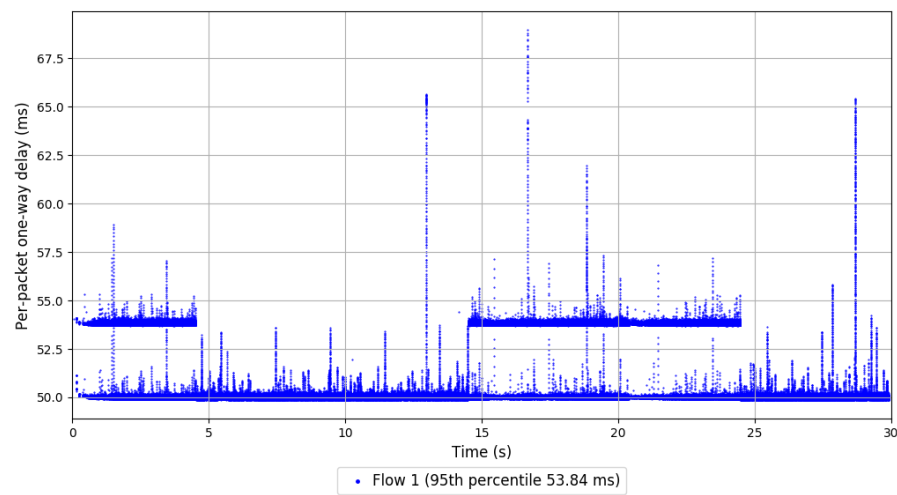
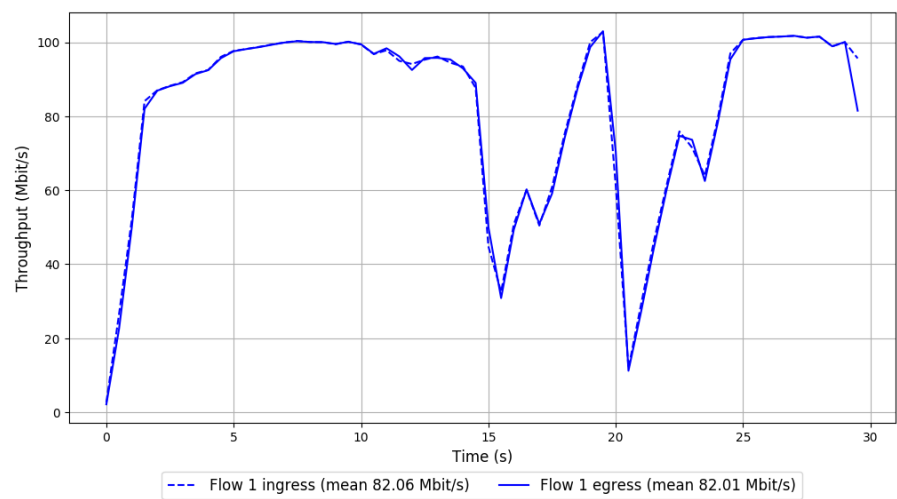
-- Flow 1:

Average throughput: 82.01 Mbit/s

95th percentile per-packet one-way delay: 53.842 ms

Loss rate: 0.49%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 13:50:07

End at: 2018-04-17 13:50:37

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.08%

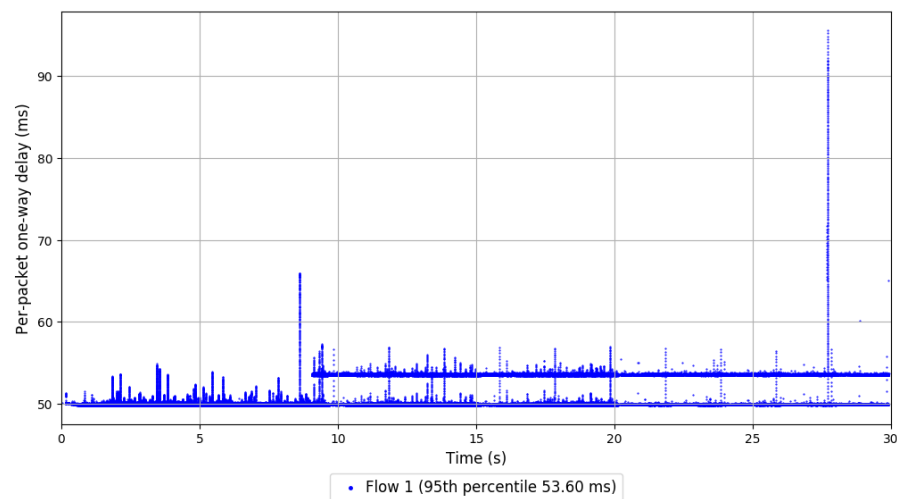
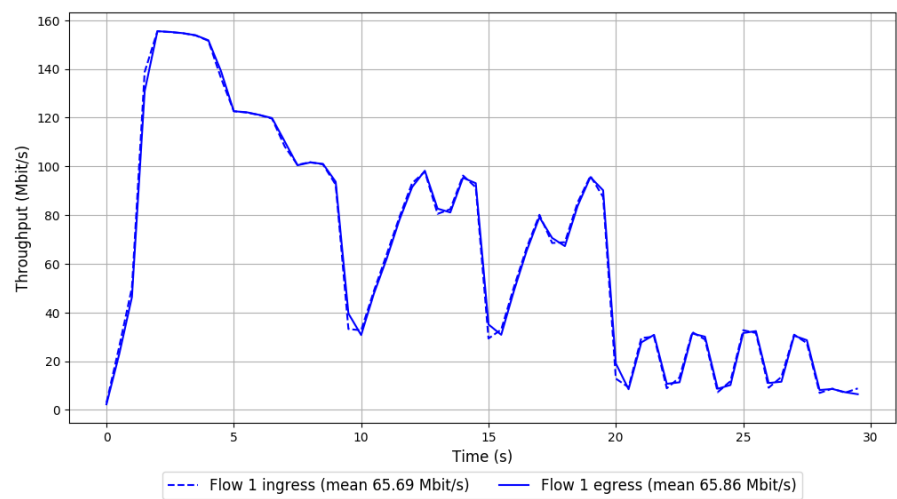
-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 53.602 ms

Loss rate: 0.08%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 14:02:43

End at: 2018-04-17 14:03:13

Below is generated by plot.py at 2018-04-17 17:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 54.034 ms

Loss rate: 0.35%

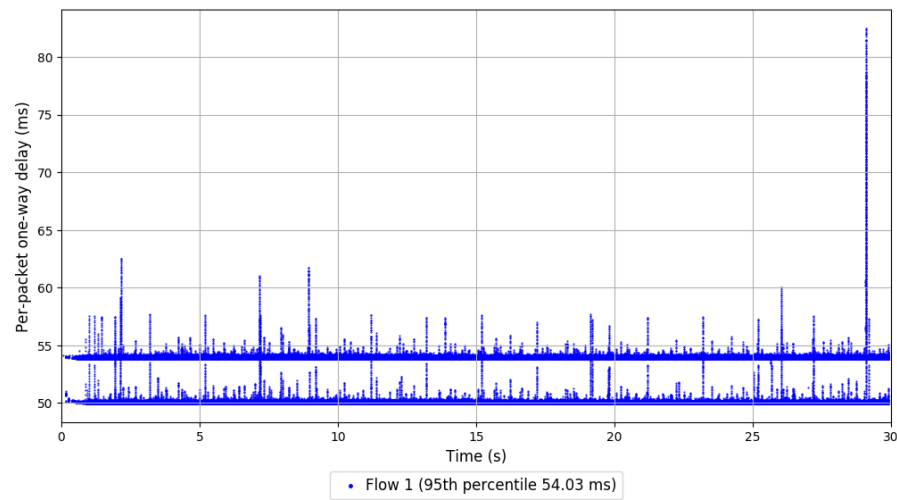
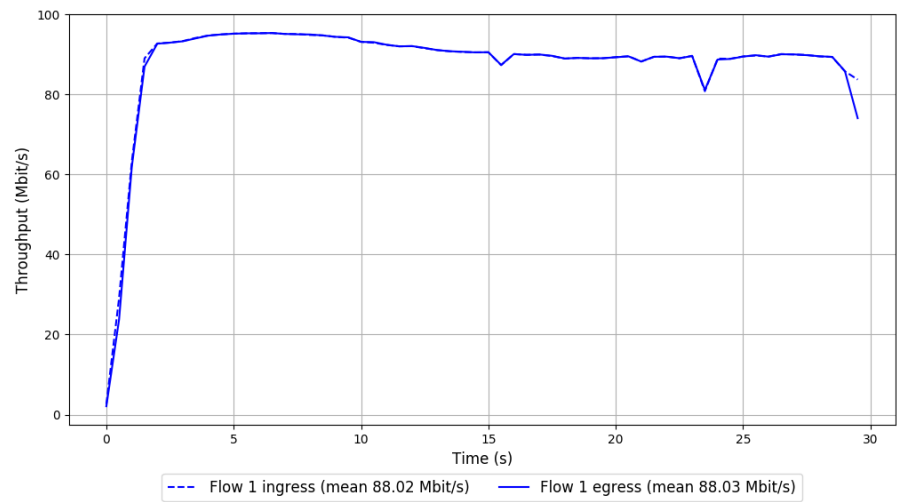
-- Flow 1:

Average throughput: 88.03 Mbit/s

95th percentile per-packet one-way delay: 54.034 ms

Loss rate: 0.35%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 14:15:28

End at: 2018-04-17 14:15:58

Below is generated by plot.py at 2018-04-17 17:13:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.31%

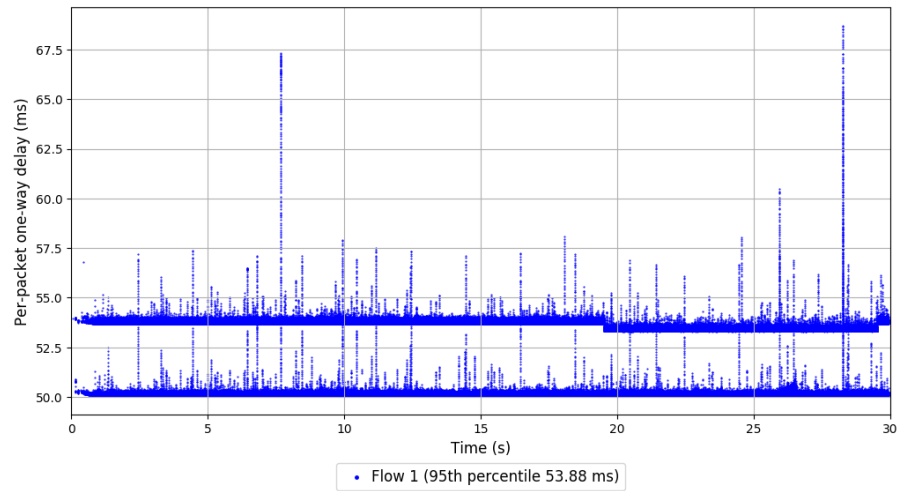
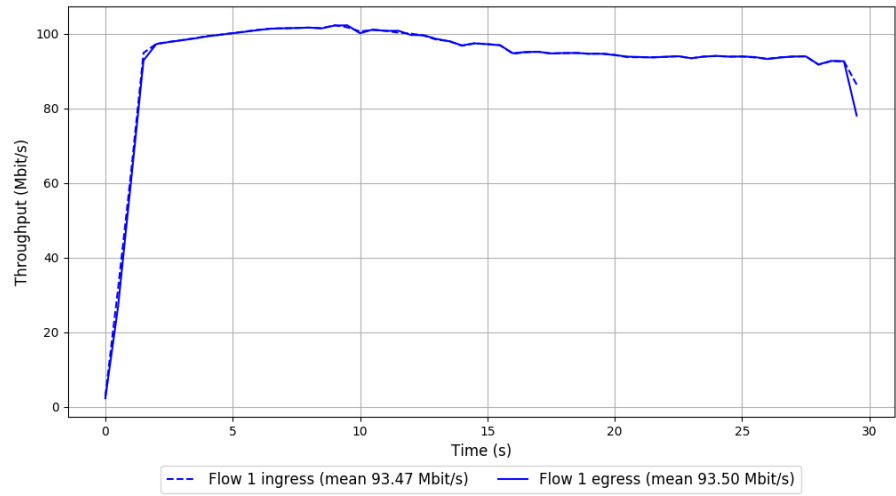
-- Flow 1:

Average throughput: 93.50 Mbit/s

95th percentile per-packet one-way delay: 53.876 ms

Loss rate: 0.31%

Run 10: Report of Copa — Data Link

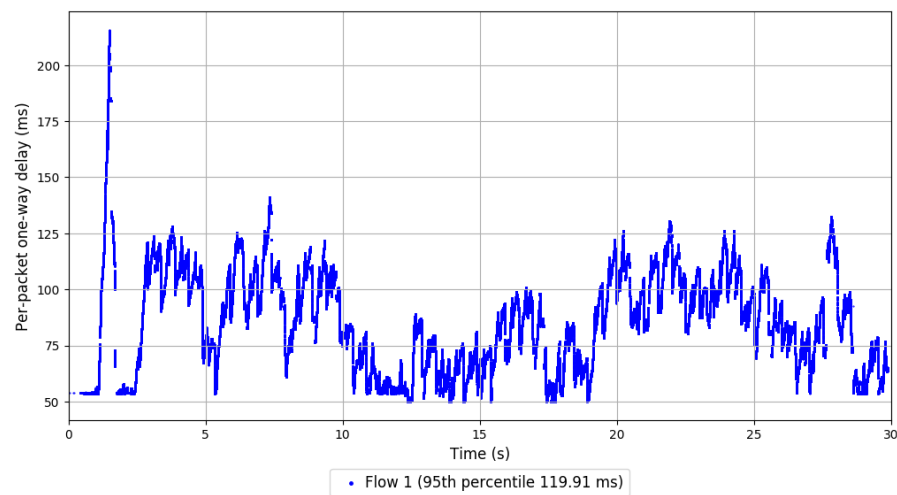
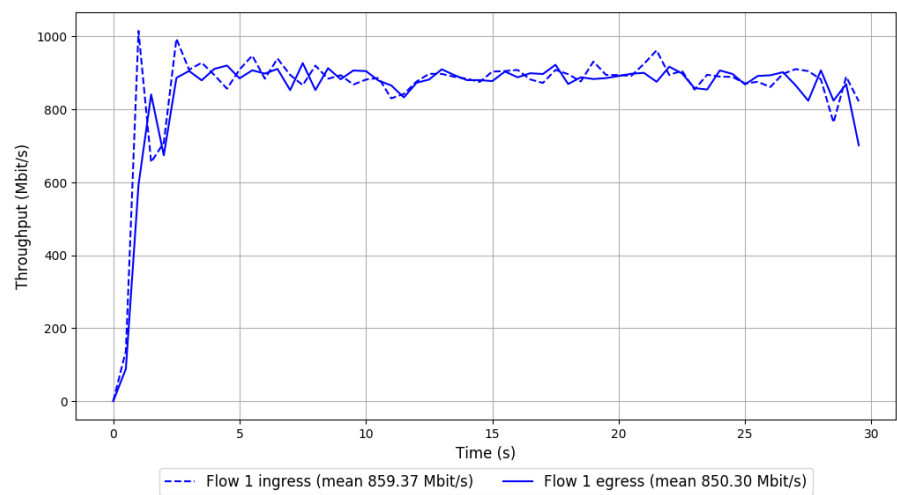


```
Run 1: Statistics of FillP

Start at: 2018-04-17 12:18:05
End at: 2018-04-17 12:18:35

# Below is generated by plot.py at 2018-04-17 17:26:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 850.30 Mbit/s
95th percentile per-packet one-way delay: 119.910 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 850.30 Mbit/s
95th percentile per-packet one-way delay: 119.910 ms
Loss rate: 1.41%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 12:30:55

End at: 2018-04-17 12:31:25

Below is generated by plot.py at 2018-04-17 17:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.59 Mbit/s

95th percentile per-packet one-way delay: 123.134 ms

Loss rate: 1.61%

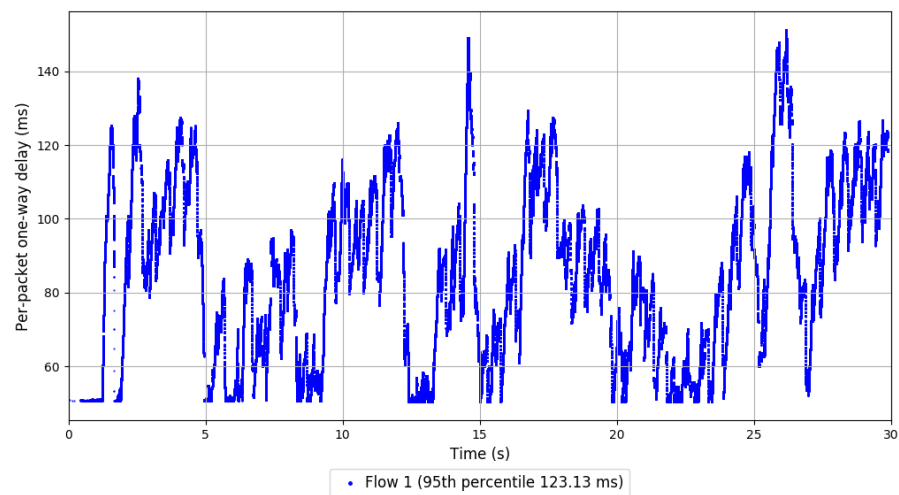
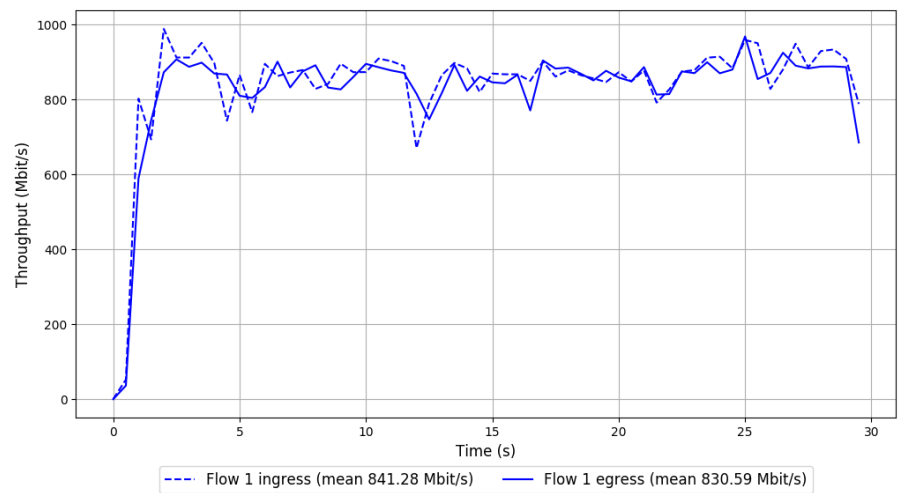
-- Flow 1:

Average throughput: 830.59 Mbit/s

95th percentile per-packet one-way delay: 123.134 ms

Loss rate: 1.61%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-17 12:43:34

End at: 2018-04-17 12:44:04

Below is generated by plot.py at 2018-04-17 17:27:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 840.26 Mbit/s

95th percentile per-packet one-way delay: 125.431 ms

Loss rate: 1.52%

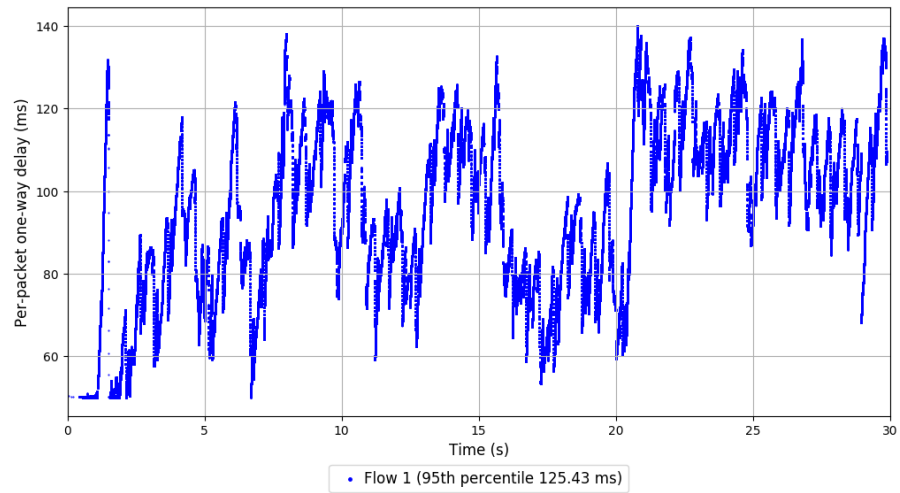
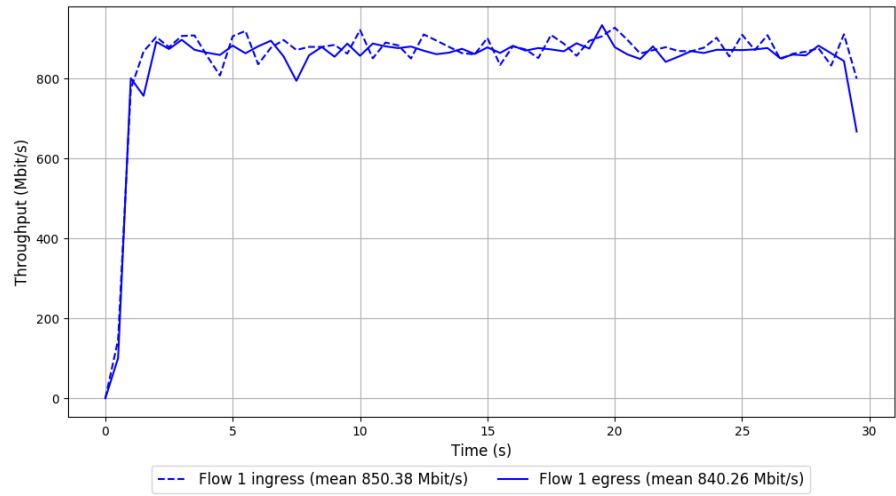
-- Flow 1:

Average throughput: 840.26 Mbit/s

95th percentile per-packet one-way delay: 125.431 ms

Loss rate: 1.52%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-17 12:56:15

End at: 2018-04-17 12:56:45

Below is generated by plot.py at 2018-04-17 17:27:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.40 Mbit/s

95th percentile per-packet one-way delay: 127.265 ms

Loss rate: 1.76%

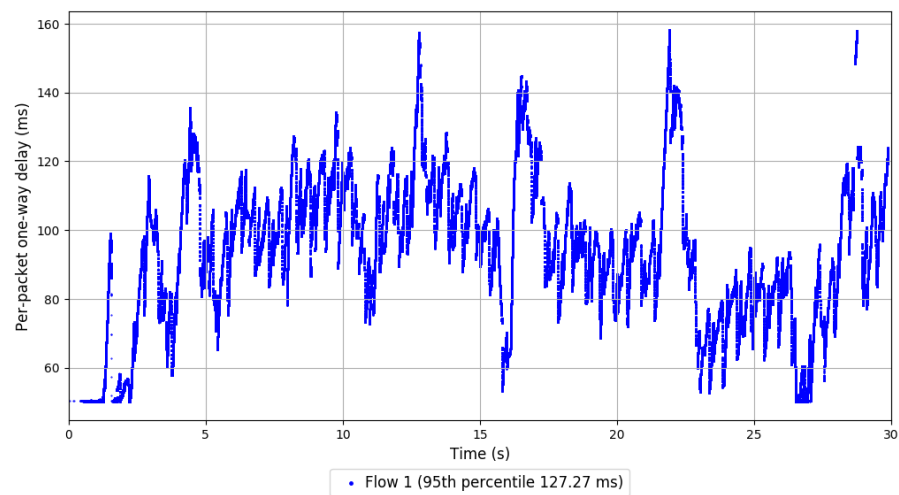
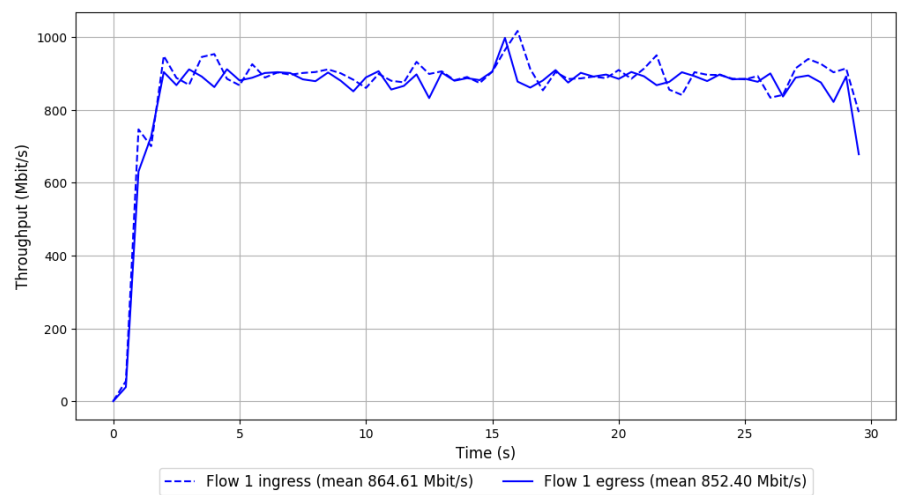
-- Flow 1:

Average throughput: 852.40 Mbit/s

95th percentile per-packet one-way delay: 127.265 ms

Loss rate: 1.76%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 13:09:05

End at: 2018-04-17 13:09:35

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 851.01 Mbit/s

95th percentile per-packet one-way delay: 122.296 ms

Loss rate: 1.12%

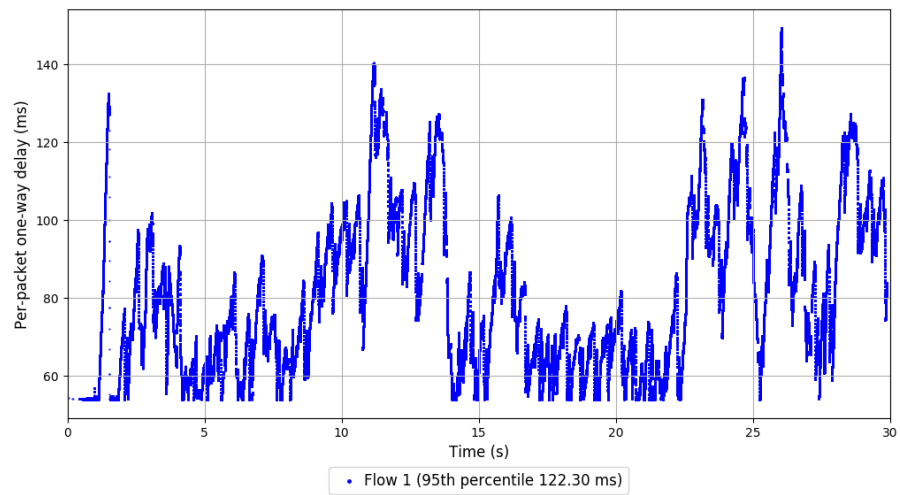
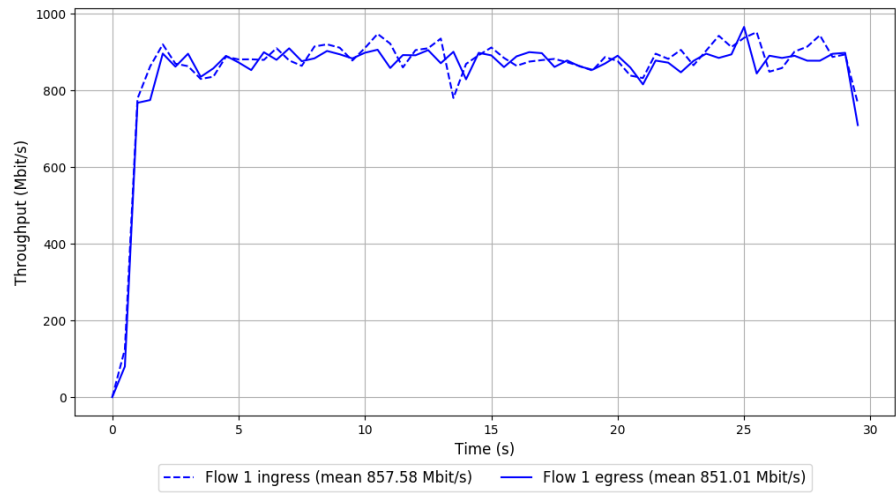
-- Flow 1:

Average throughput: 851.01 Mbit/s

95th percentile per-packet one-way delay: 122.296 ms

Loss rate: 1.12%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 13:22:10

End at: 2018-04-17 13:22:40

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 808.63 Mbit/s

95th percentile per-packet one-way delay: 124.878 ms

Loss rate: 0.96%

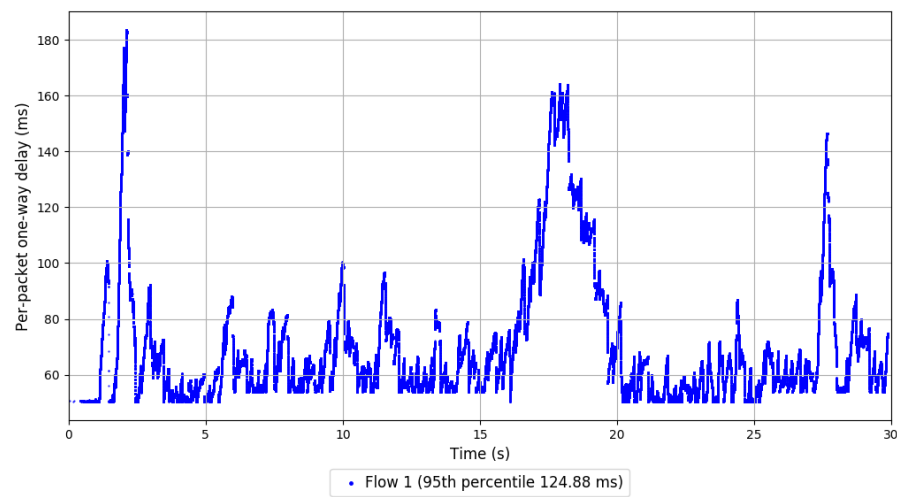
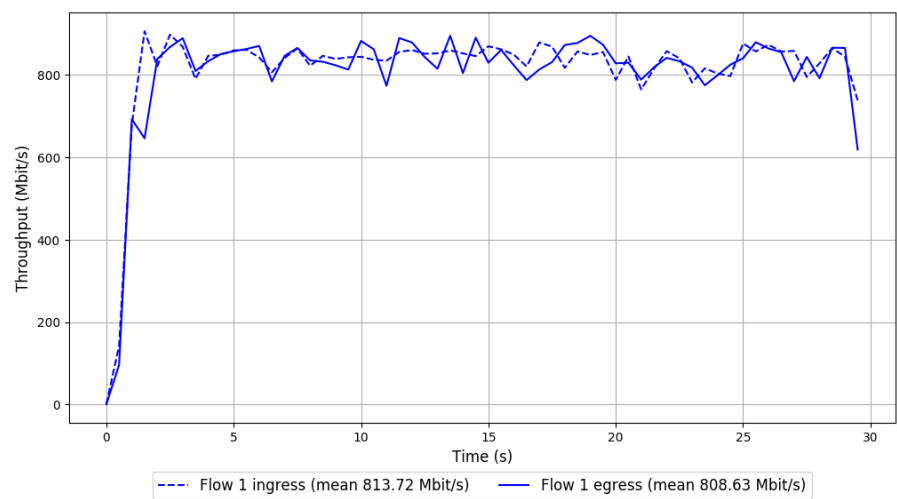
-- Flow 1:

Average throughput: 808.63 Mbit/s

95th percentile per-packet one-way delay: 124.878 ms

Loss rate: 0.96%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 13:34:59

End at: 2018-04-17 13:35:29

Below is generated by plot.py at 2018-04-17 17:27:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.71 Mbit/s

95th percentile per-packet one-way delay: 131.221 ms

Loss rate: 1.69%

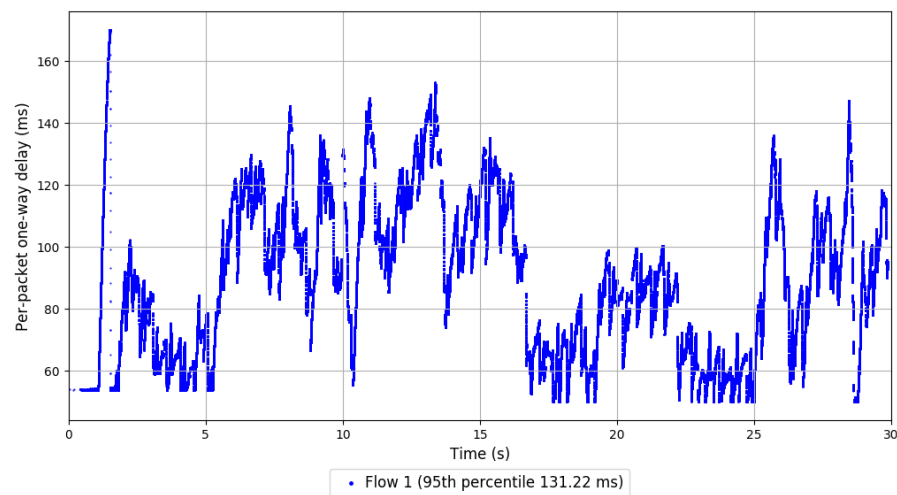
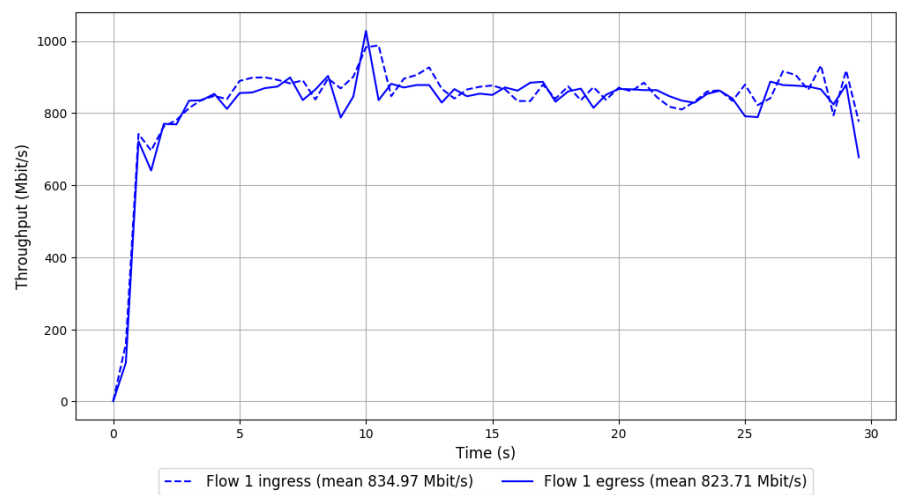
-- Flow 1:

Average throughput: 823.71 Mbit/s

95th percentile per-packet one-way delay: 131.221 ms

Loss rate: 1.69%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 13:47:44

End at: 2018-04-17 13:48:14

Below is generated by plot.py at 2018-04-17 17:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 809.14 Mbit/s

95th percentile per-packet one-way delay: 114.594 ms

Loss rate: 1.43%

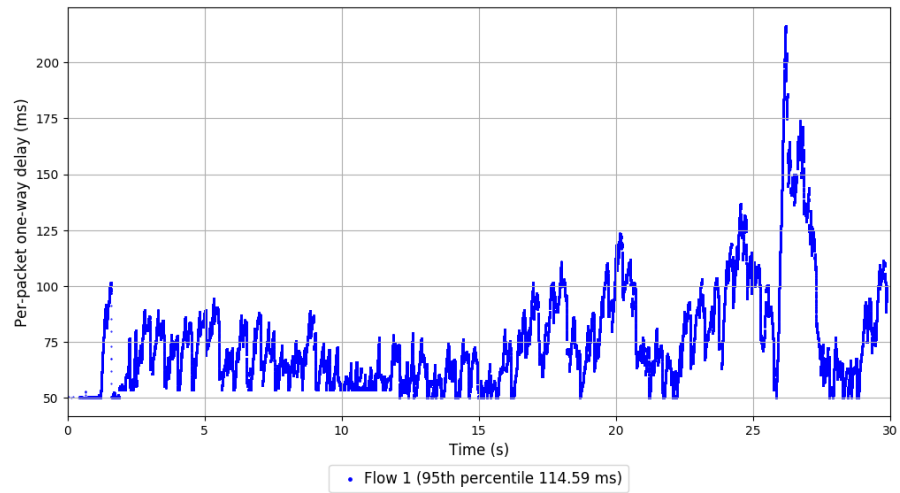
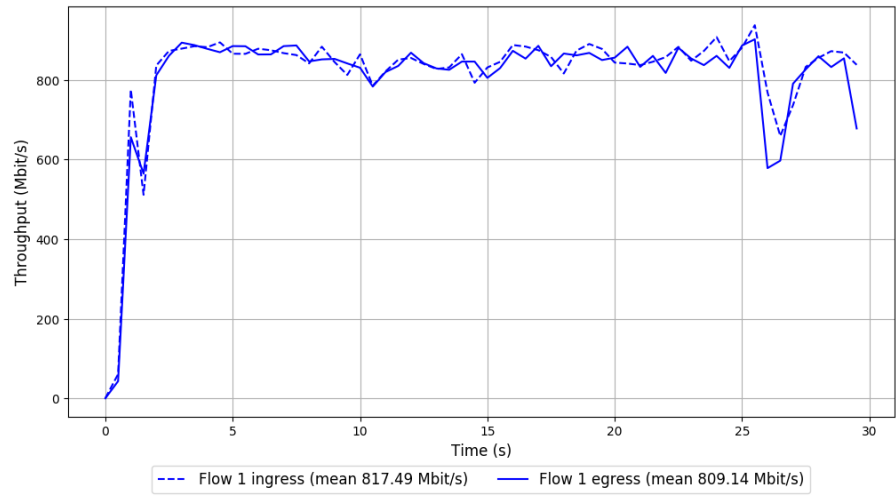
-- Flow 1:

Average throughput: 809.14 Mbit/s

95th percentile per-packet one-way delay: 114.594 ms

Loss rate: 1.43%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 14:00:20

End at: 2018-04-17 14:00:50

Below is generated by plot.py at 2018-04-17 17:40:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 818.56 Mbit/s

95th percentile per-packet one-way delay: 116.168 ms

Loss rate: 1.09%

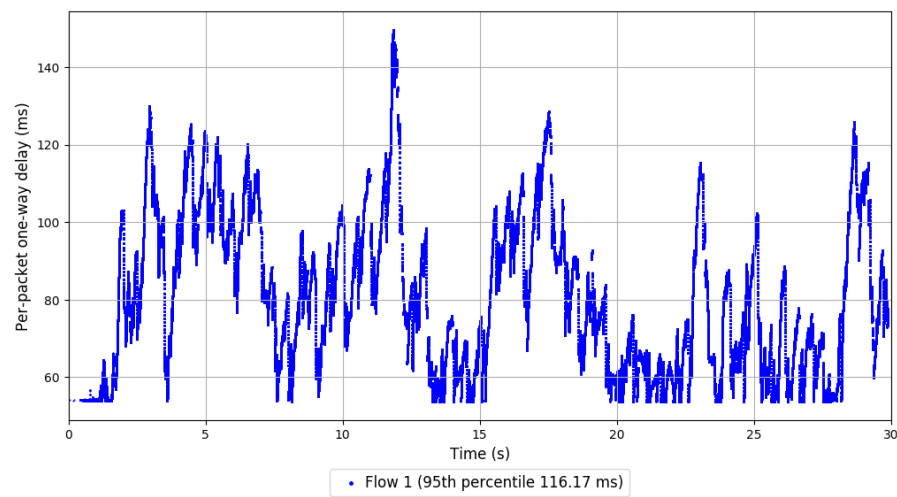
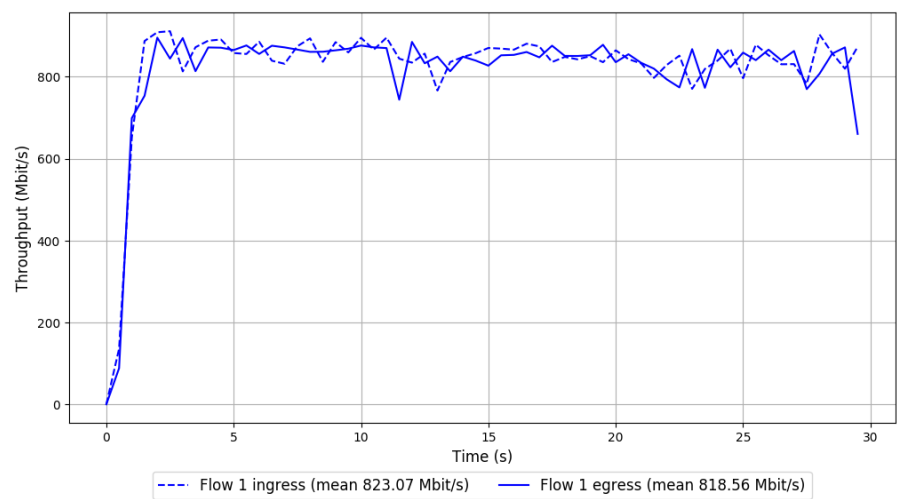
-- Flow 1:

Average throughput: 818.56 Mbit/s

95th percentile per-packet one-way delay: 116.168 ms

Loss rate: 1.09%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 14:13:02

End at: 2018-04-17 14:13:32

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 835.95 Mbit/s

95th percentile per-packet one-way delay: 140.302 ms

Loss rate: 4.48%

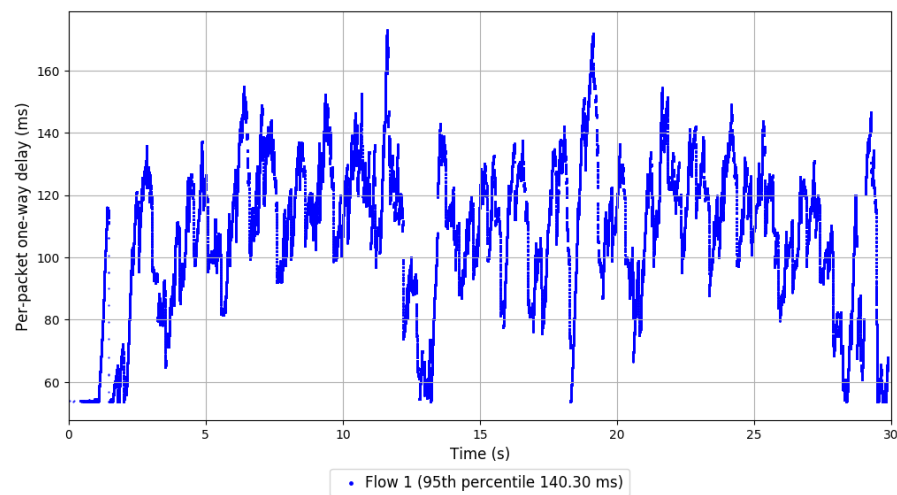
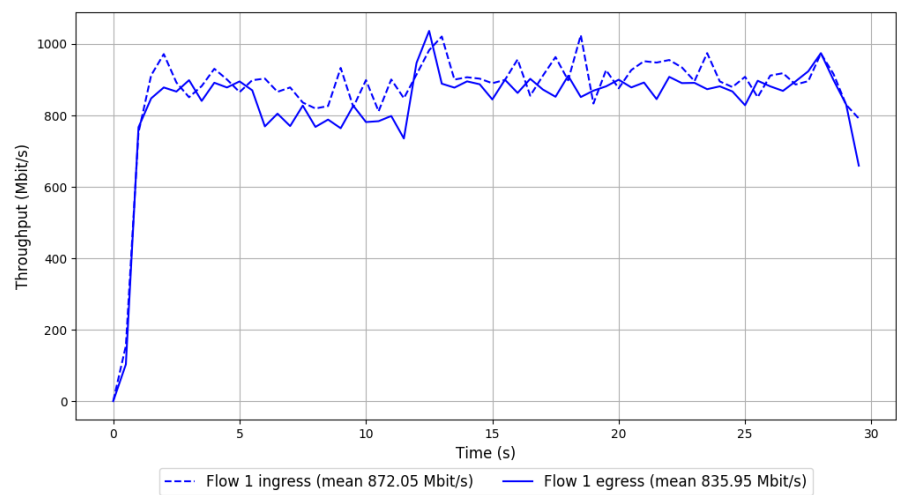
-- Flow 1:

Average throughput: 835.95 Mbit/s

95th percentile per-packet one-way delay: 140.302 ms

Loss rate: 4.48%

Run 10: Report of FillP — Data Link

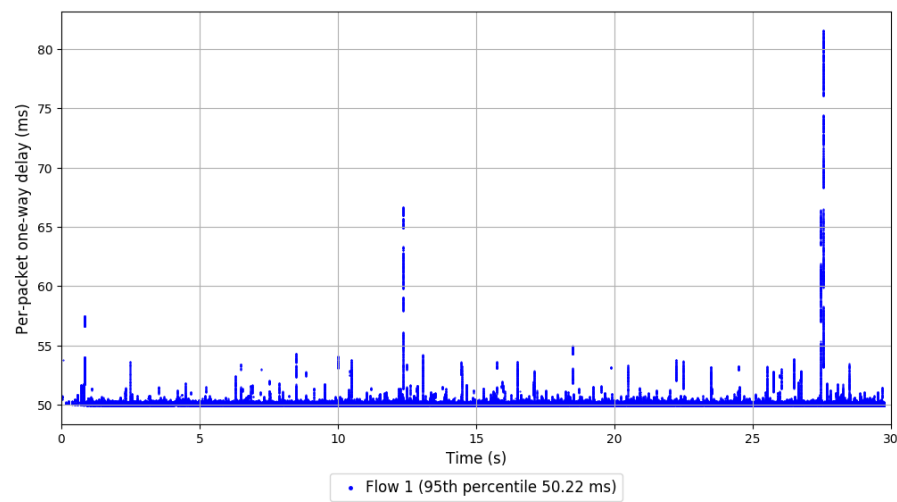
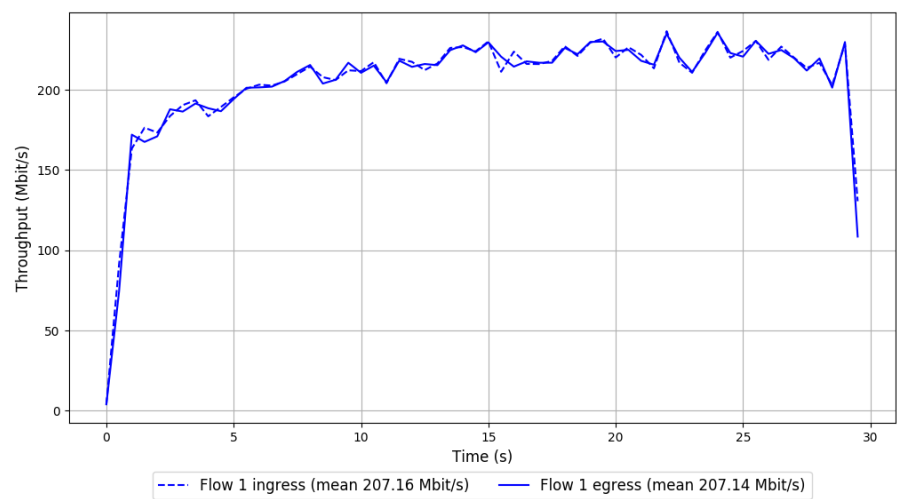


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 12:26:26
End at: 2018-04-17 12:26:56

# Below is generated by plot.py at 2018-04-17 17:40:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 207.14 Mbit/s
95th percentile per-packet one-way delay: 50.216 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 207.14 Mbit/s
95th percentile per-packet one-way delay: 50.216 ms
Loss rate: 0.35%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 12:39:06

End at: 2018-04-17 12:39:36

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.40 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 0.33%

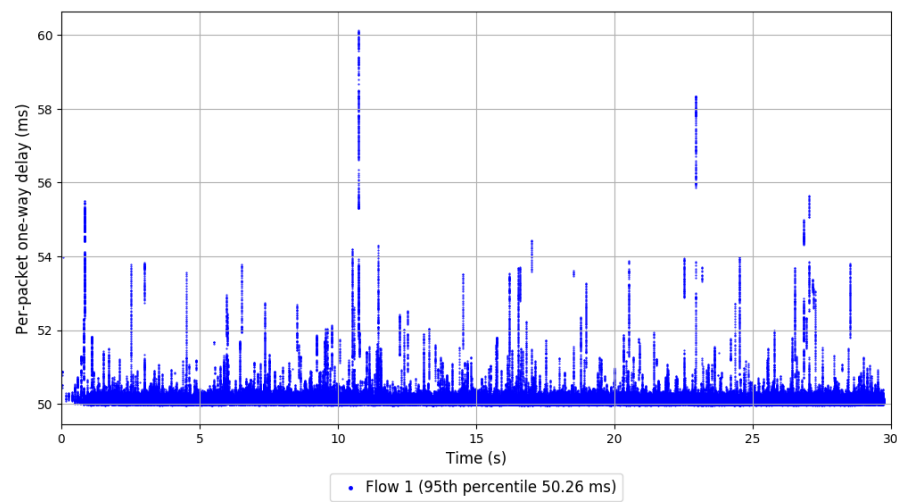
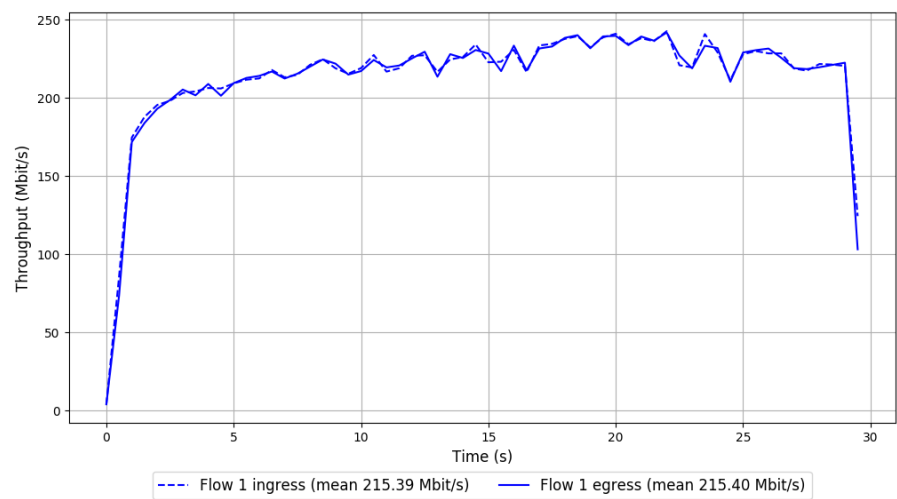
-- Flow 1:

Average throughput: 215.40 Mbit/s

95th percentile per-packet one-way delay: 50.255 ms

Loss rate: 0.33%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 12:51:46

End at: 2018-04-17 12:52:16

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.41 Mbit/s

95th percentile per-packet one-way delay: 50.387 ms

Loss rate: 0.36%

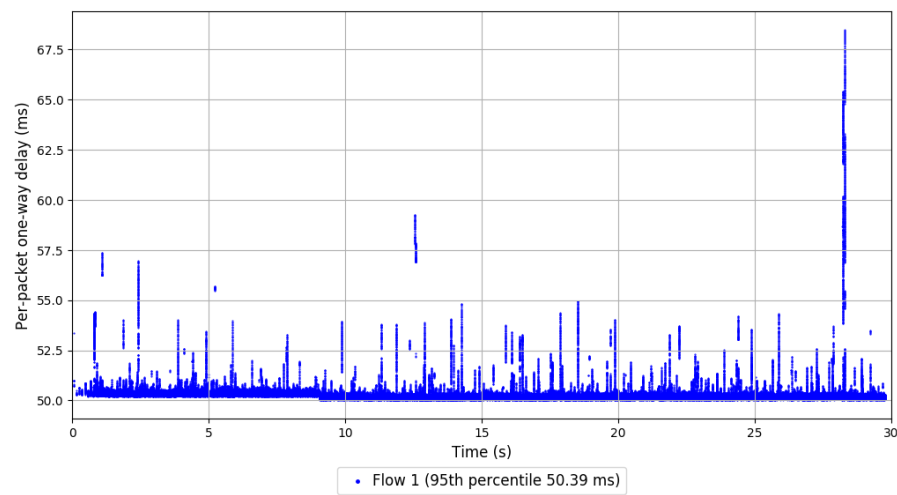
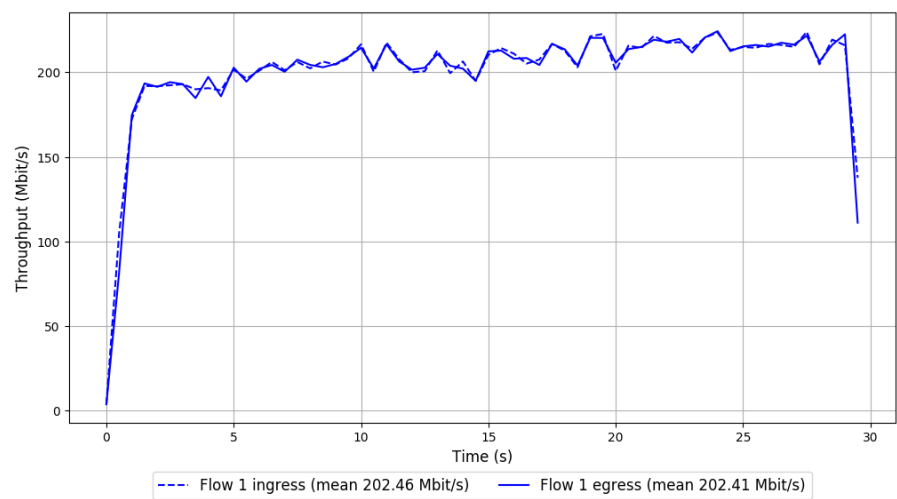
-- Flow 1:

Average throughput: 202.41 Mbit/s

95th percentile per-packet one-way delay: 50.387 ms

Loss rate: 0.36%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 13:04:31

End at: 2018-04-17 13:05:01

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.28%

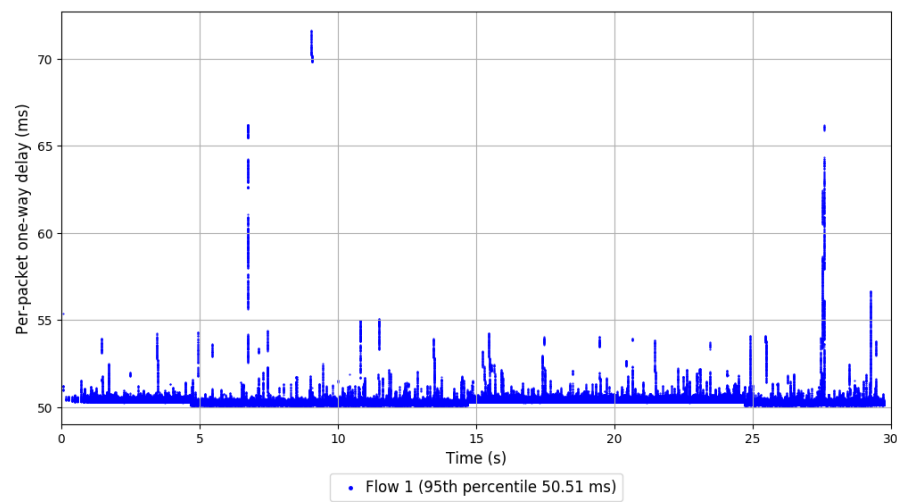
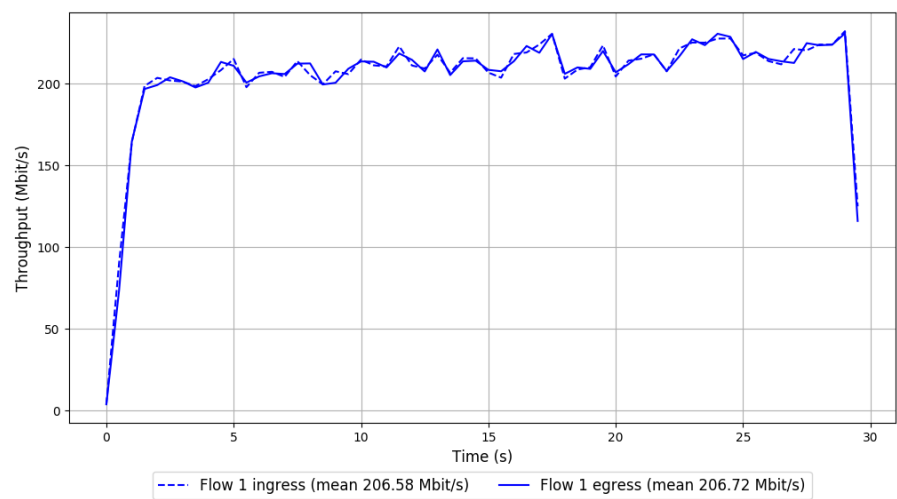
-- Flow 1:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.28%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 13:17:35

End at: 2018-04-17 13:18:05

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 50.429 ms

Loss rate: 0.35%

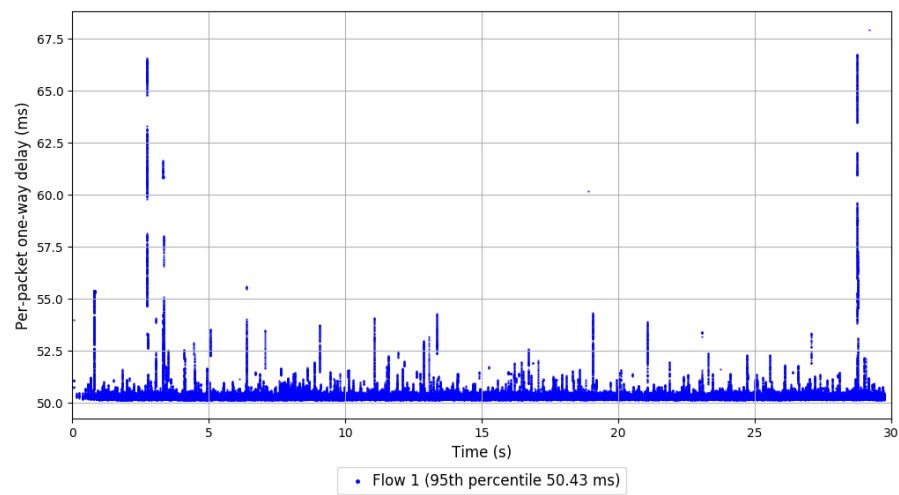
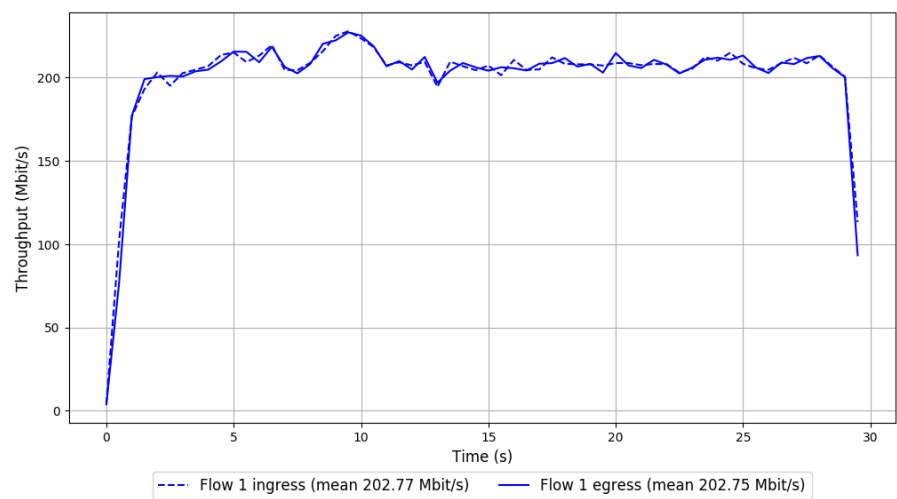
-- Flow 1:

Average throughput: 202.75 Mbit/s

95th percentile per-packet one-way delay: 50.429 ms

Loss rate: 0.35%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 13:30:23

End at: 2018-04-17 13:30:53

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.54 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 0.36%

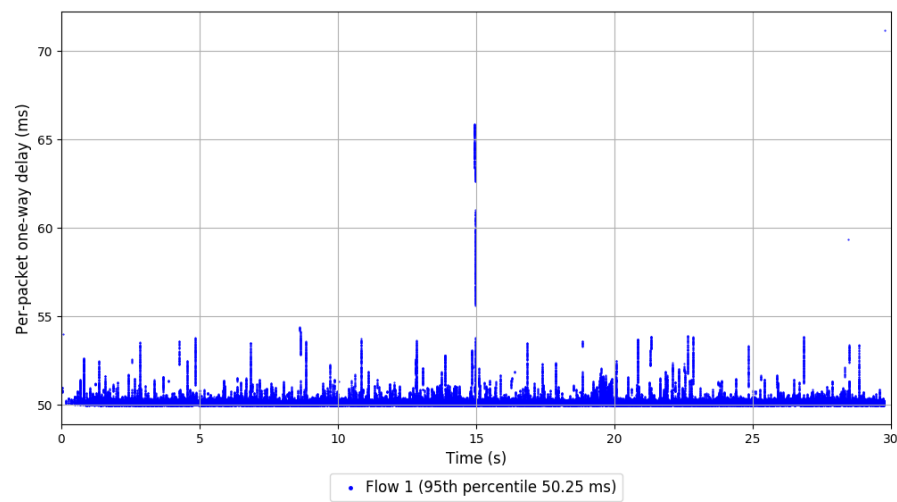
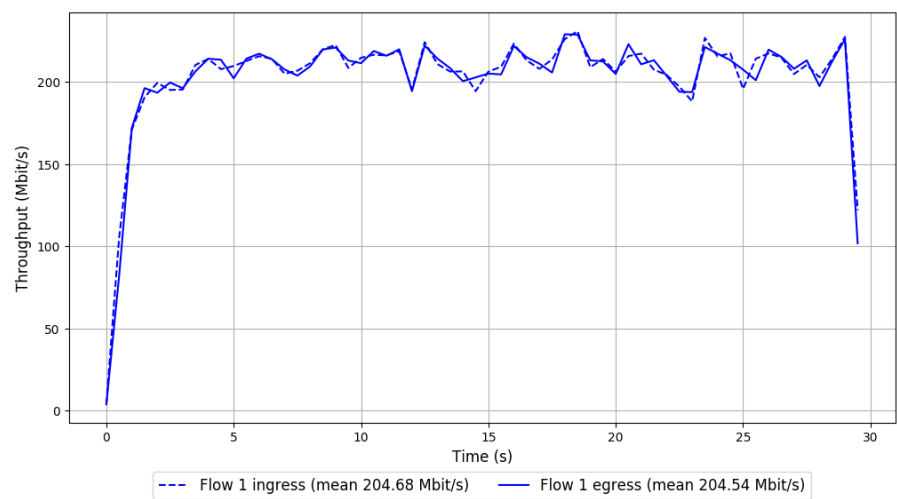
-- Flow 1:

Average throughput: 204.54 Mbit/s

95th percentile per-packet one-way delay: 50.250 ms

Loss rate: 0.36%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 13:43:10

End at: 2018-04-17 13:43:40

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.08 Mbit/s

95th percentile per-packet one-way delay: 50.135 ms

Loss rate: 0.36%

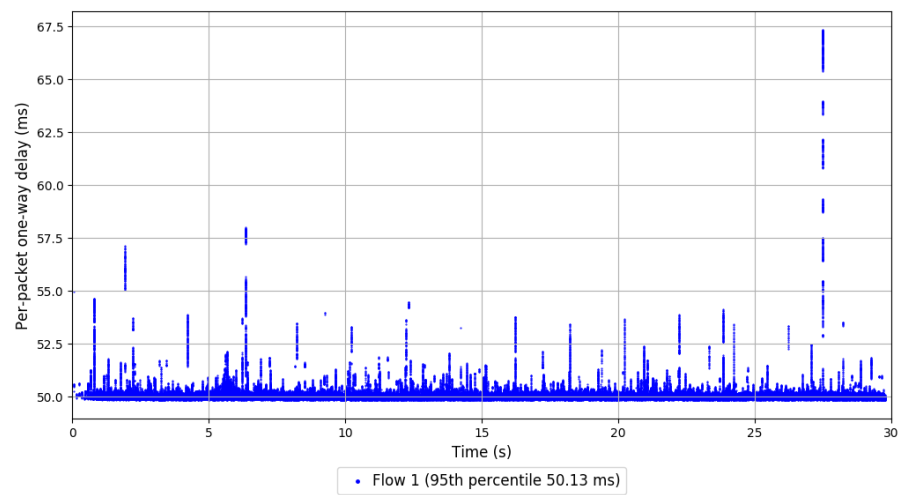
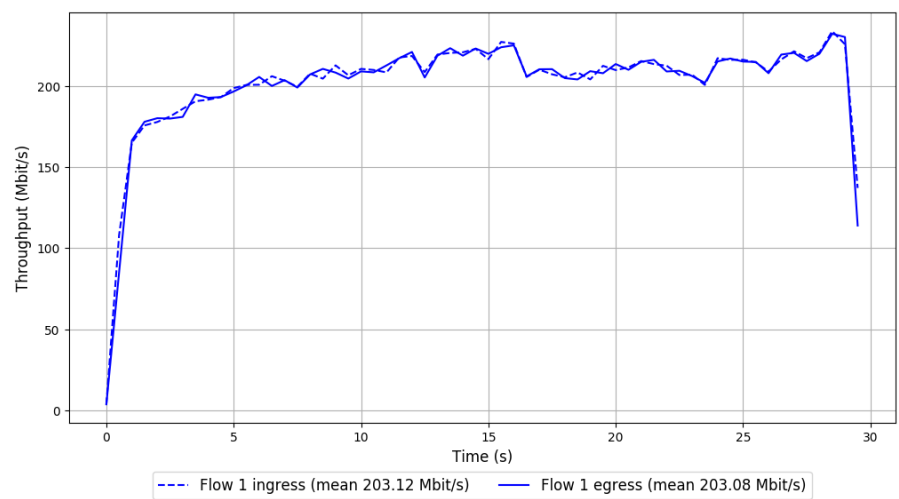
-- Flow 1:

Average throughput: 203.08 Mbit/s

95th percentile per-packet one-way delay: 50.135 ms

Loss rate: 0.36%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 13:55:50

End at: 2018-04-17 13:56:20

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.60 Mbit/s

95th percentile per-packet one-way delay: 69.100 ms

Loss rate: 0.35%

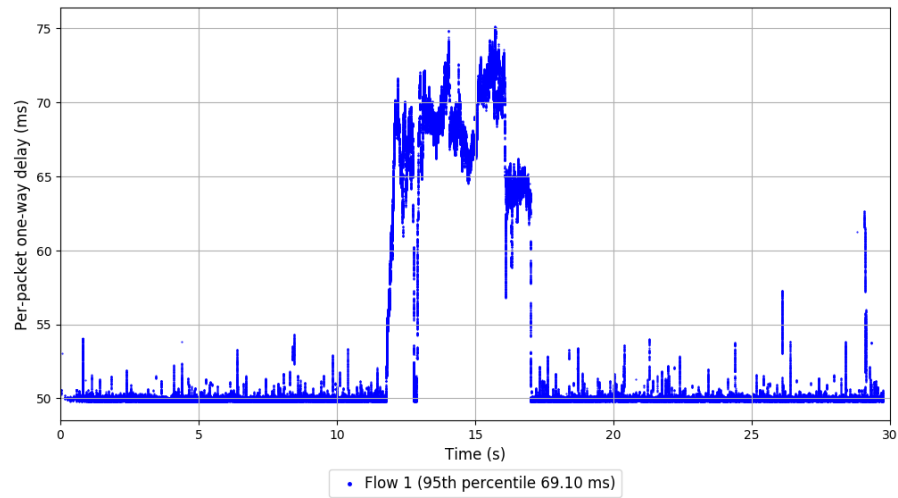
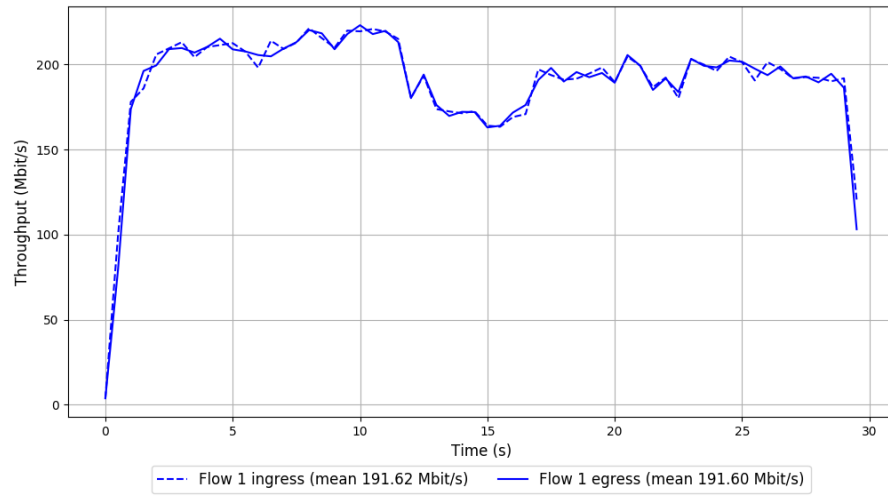
-- Flow 1:

Average throughput: 191.60 Mbit/s

95th percentile per-packet one-way delay: 69.100 ms

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 14:08:30

End at: 2018-04-17 14:09:00

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.99 Mbit/s

95th percentile per-packet one-way delay: 50.262 ms

Loss rate: 0.36%

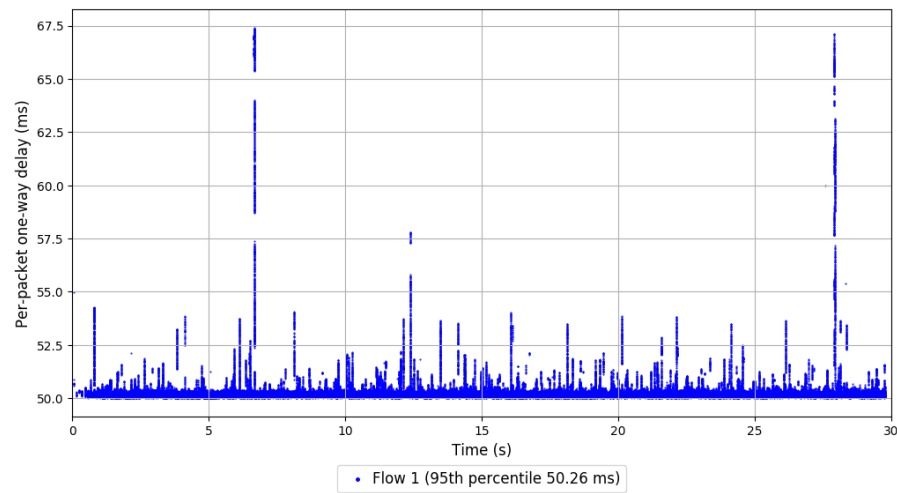
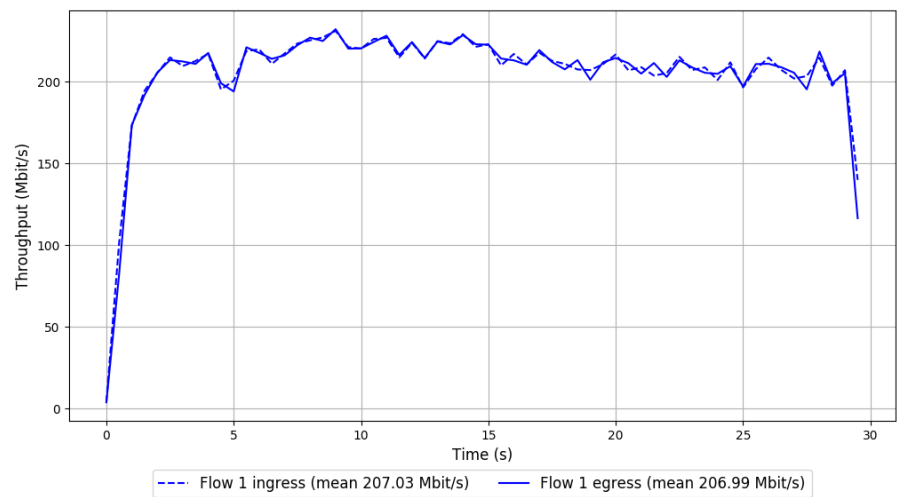
-- Flow 1:

Average throughput: 206.99 Mbit/s

95th percentile per-packet one-way delay: 50.262 ms

Loss rate: 0.36%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 14:21:13

End at: 2018-04-17 14:21:43

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 212.40 Mbit/s

95th percentile per-packet one-way delay: 50.339 ms

Loss rate: 0.32%

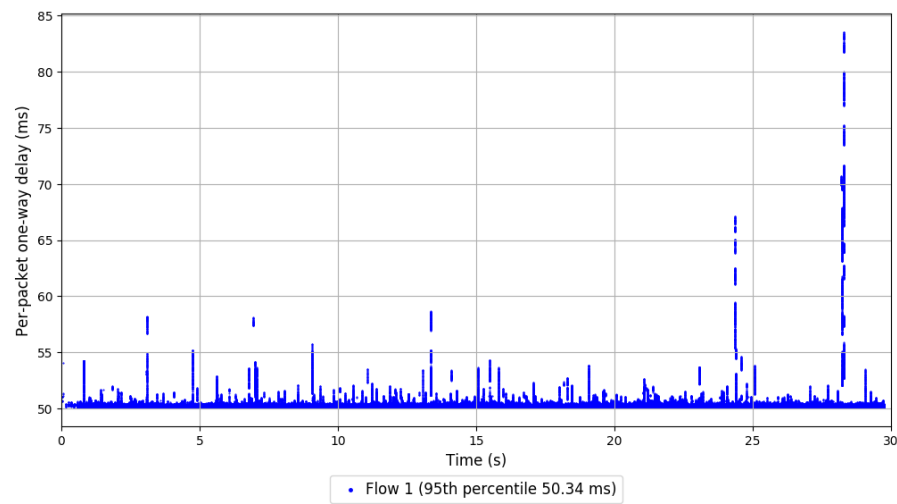
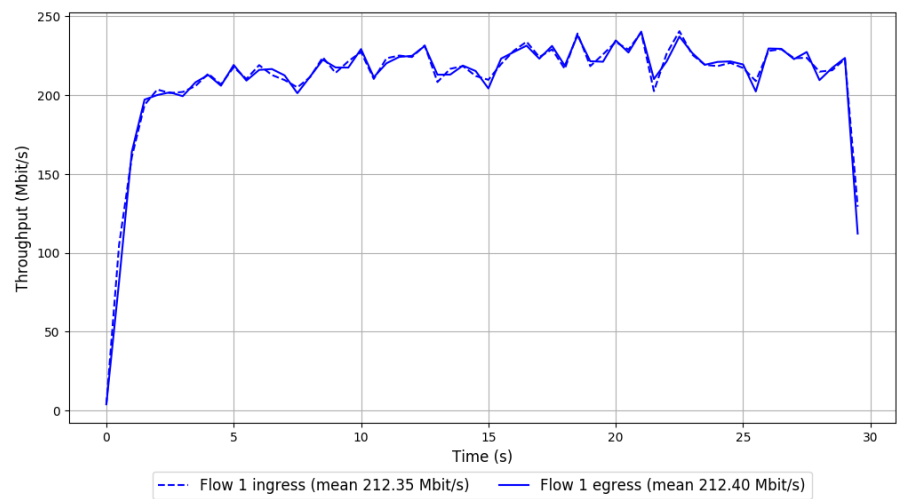
-- Flow 1:

Average throughput: 212.40 Mbit/s

95th percentile per-packet one-way delay: 50.339 ms

Loss rate: 0.32%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 12:27:58

End at: 2018-04-17 12:28:28

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.99 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.31%

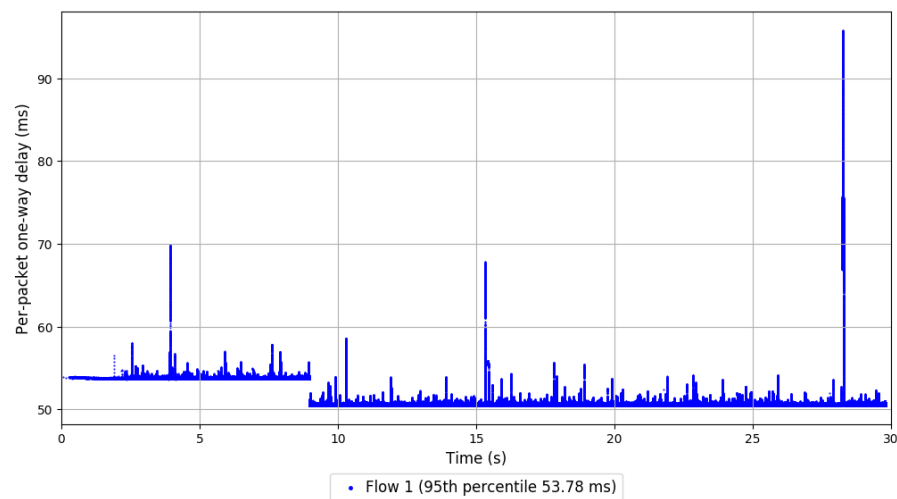
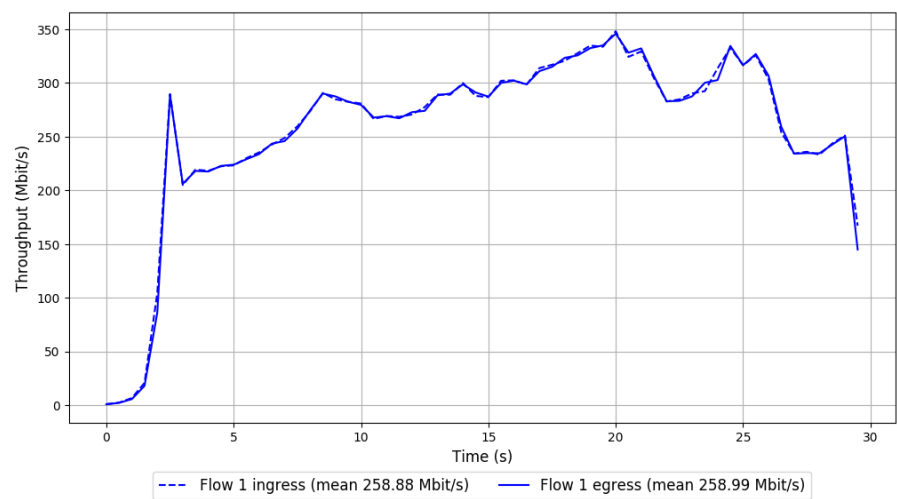
-- Flow 1:

Average throughput: 258.99 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.31%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 12:40:40

End at: 2018-04-17 12:41:10

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.53 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.32%

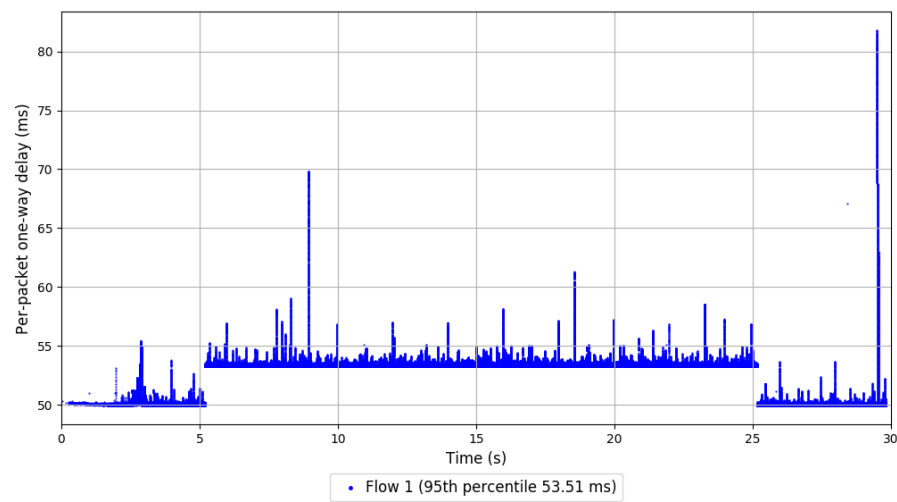
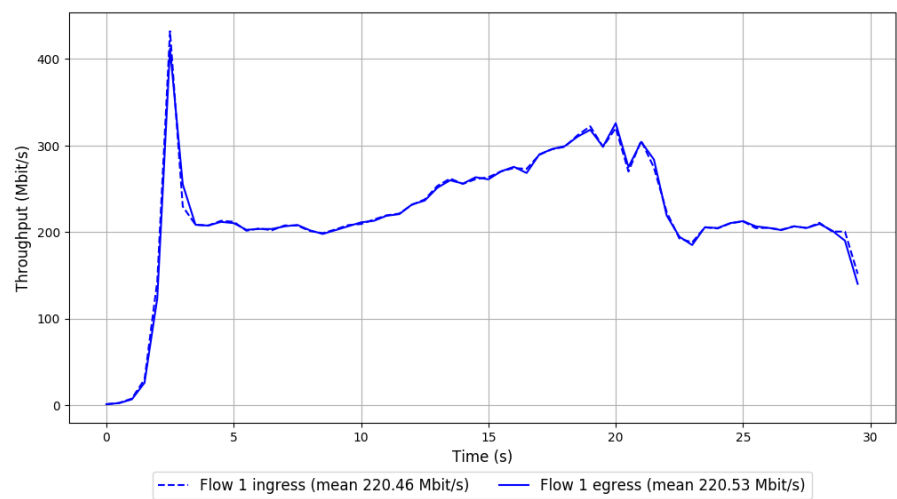
-- Flow 1:

Average throughput: 220.53 Mbit/s

95th percentile per-packet one-way delay: 53.514 ms

Loss rate: 0.32%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 12:53:21

End at: 2018-04-17 12:53:51

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.69 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.35%

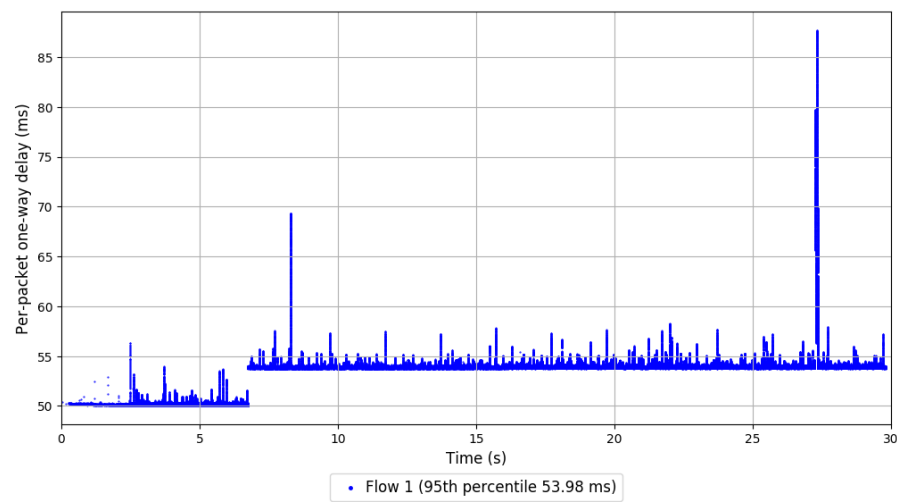
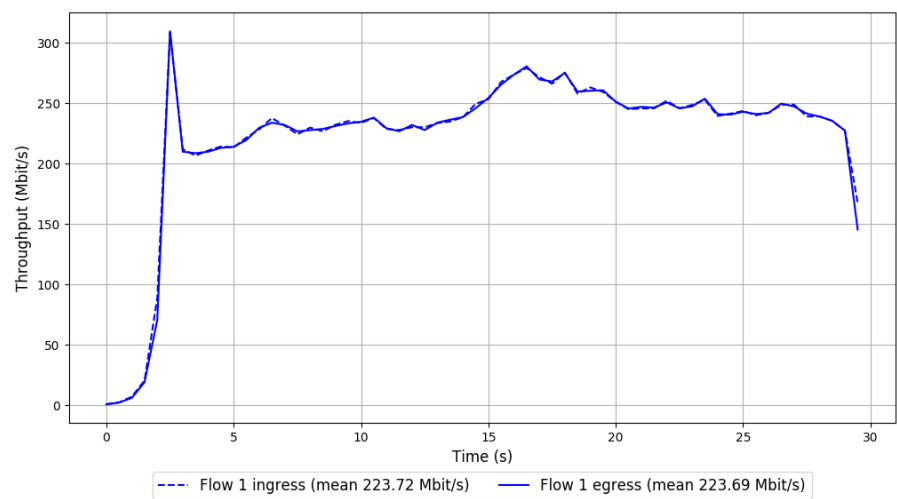
-- Flow 1:

Average throughput: 223.69 Mbit/s

95th percentile per-packet one-way delay: 53.983 ms

Loss rate: 0.35%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 13:06:04

End at: 2018-04-17 13:06:34

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.41 Mbit/s

95th percentile per-packet one-way delay: 50.957 ms

Loss rate: 0.40%

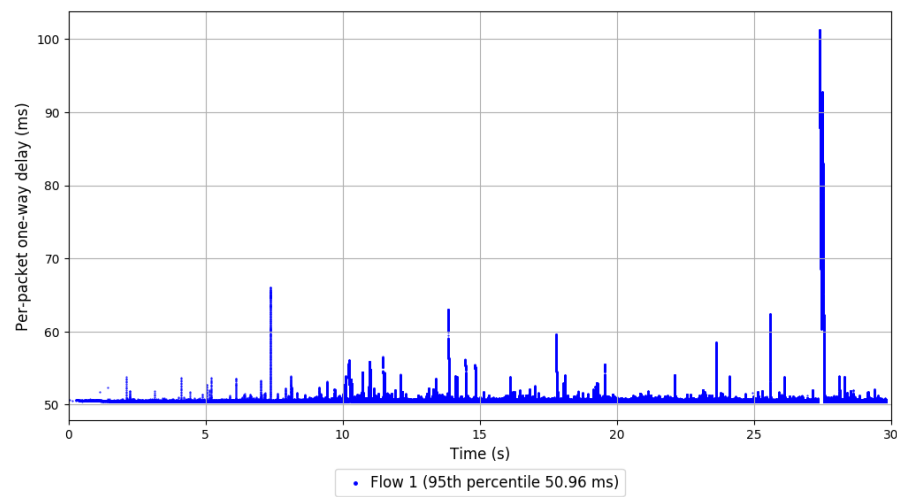
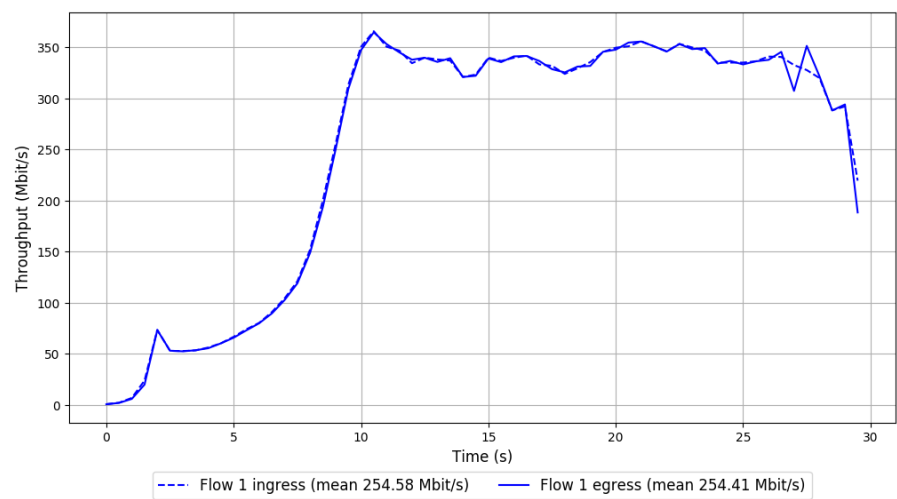
-- Flow 1:

Average throughput: 254.41 Mbit/s

95th percentile per-packet one-way delay: 50.957 ms

Loss rate: 0.40%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 13:19:10

End at: 2018-04-17 13:19:40

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.57 Mbit/s

95th percentile per-packet one-way delay: 54.145 ms

Loss rate: 0.41%

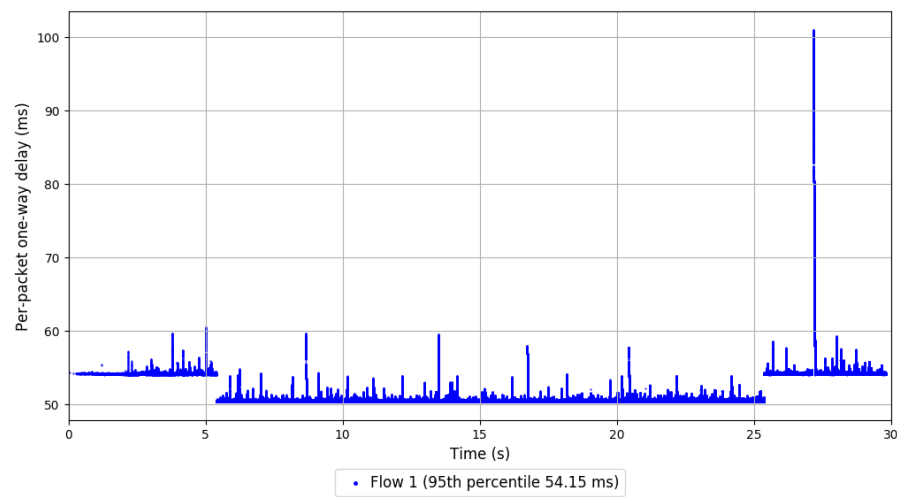
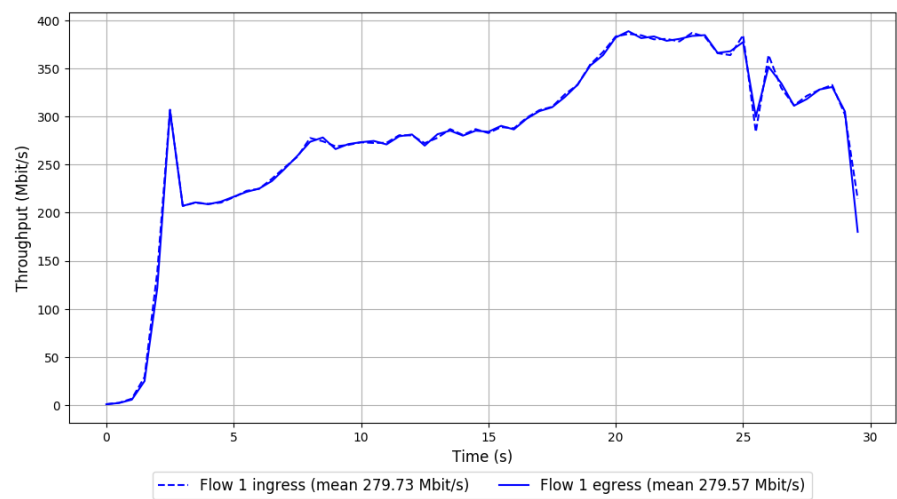
-- Flow 1:

Average throughput: 279.57 Mbit/s

95th percentile per-packet one-way delay: 54.145 ms

Loss rate: 0.41%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 13:31:57

End at: 2018-04-17 13:32:27

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.91 Mbit/s

95th percentile per-packet one-way delay: 54.365 ms

Loss rate: 0.51%

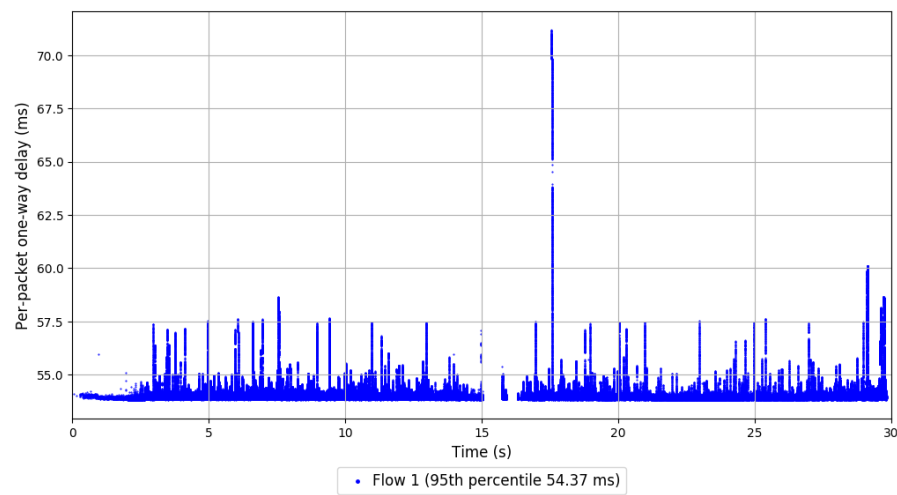
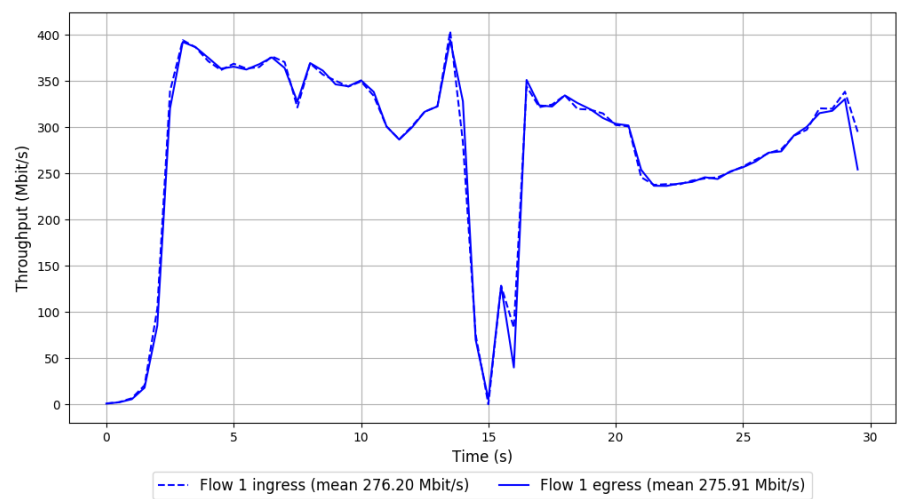
-- Flow 1:

Average throughput: 275.91 Mbit/s

95th percentile per-packet one-way delay: 54.365 ms

Loss rate: 0.51%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 13:44:43

End at: 2018-04-17 13:45:13

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.46 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.20%

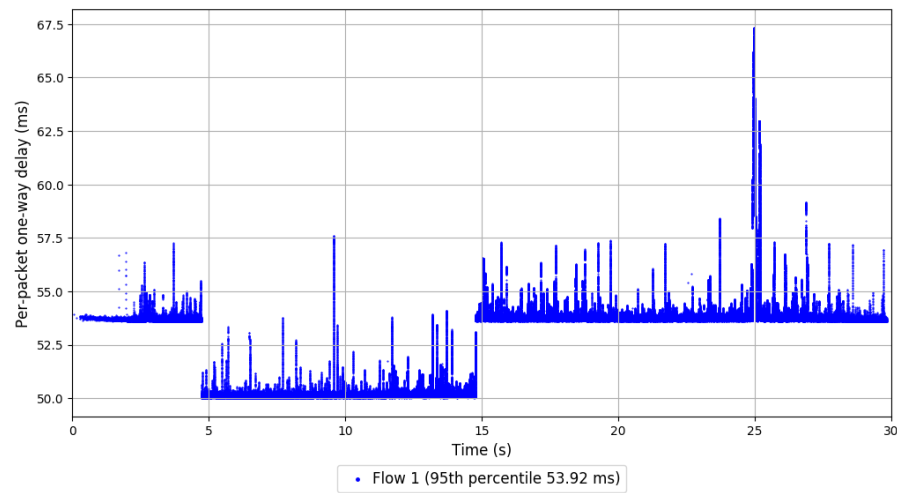
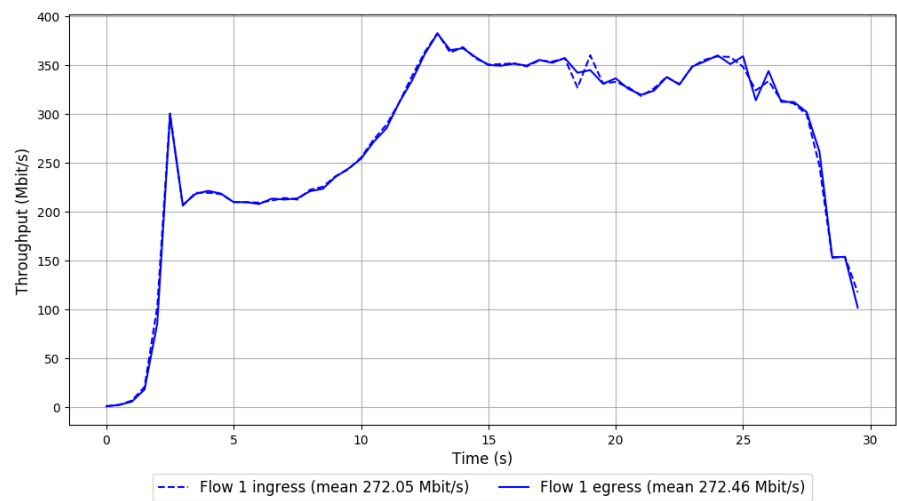
-- Flow 1:

Average throughput: 272.46 Mbit/s

95th percentile per-packet one-way delay: 53.917 ms

Loss rate: 0.20%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 13:57:22

End at: 2018-04-17 13:57:52

Below is generated by plot.py at 2018-04-17 17:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.20 Mbit/s

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

Loss rate: 0.42%

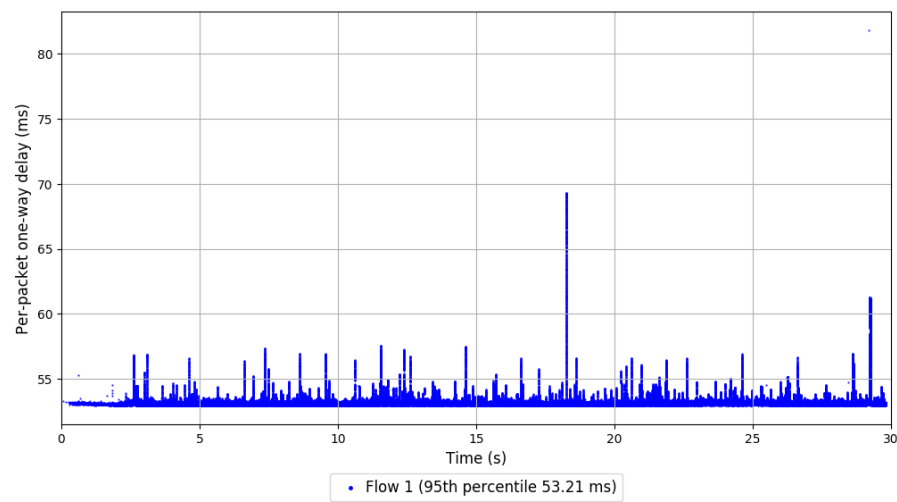
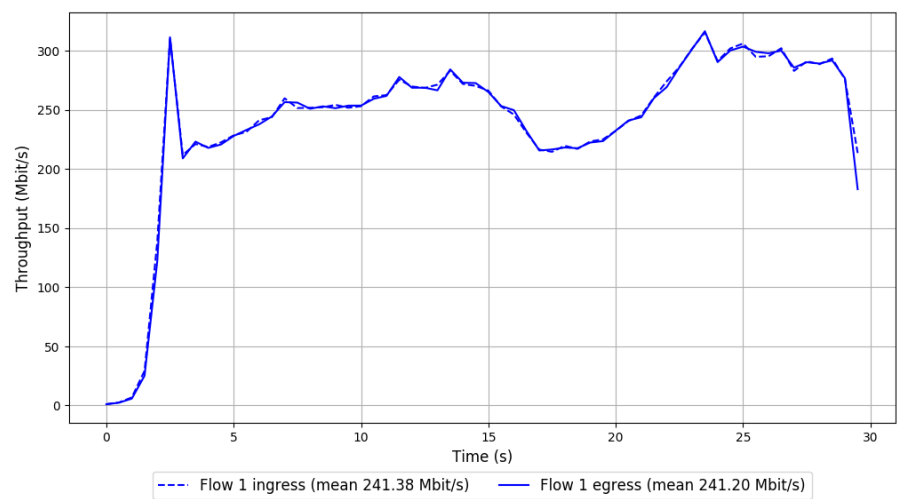
-- Flow 1:

Average throughput: 241.20 Mbit/s

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

Loss rate: 0.42%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 14:10:05

End at: 2018-04-17 14:10:35

Below is generated by plot.py at 2018-04-17 17:40:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.47 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.37%

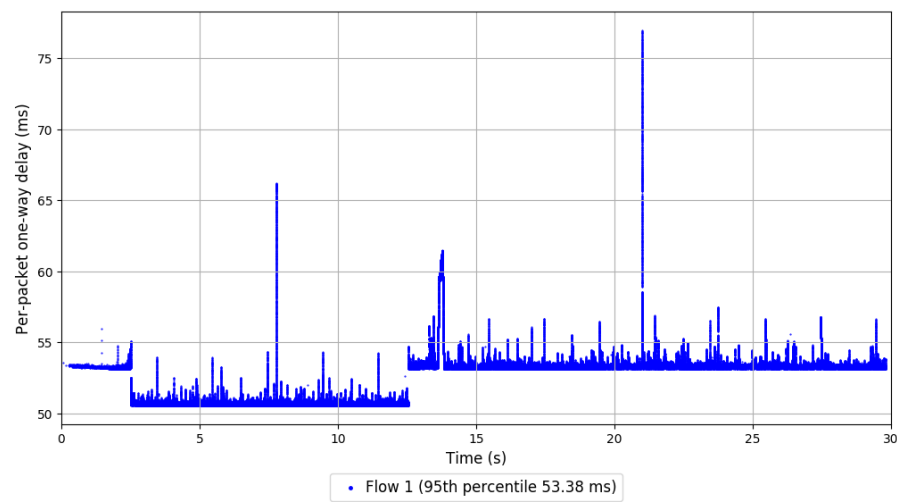
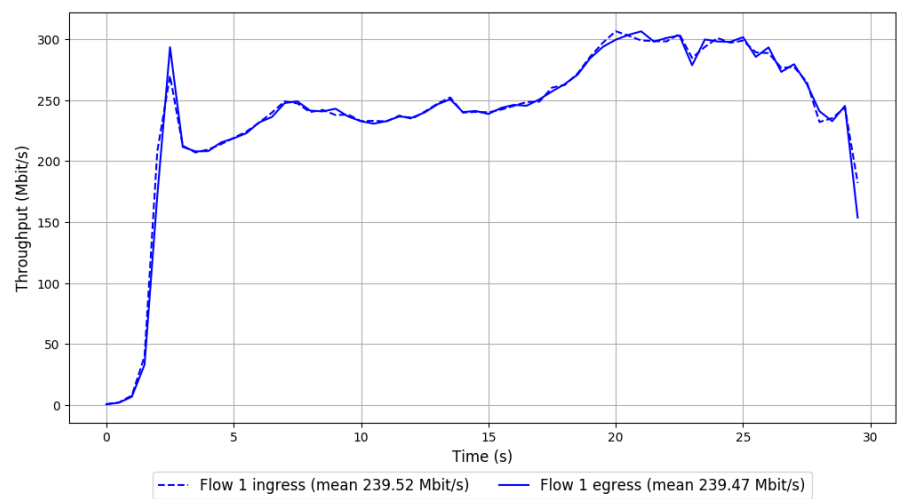
-- Flow 1:

Average throughput: 239.47 Mbit/s

95th percentile per-packet one-way delay: 53.380 ms

Loss rate: 0.37%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 14:22:48

End at: 2018-04-17 14:23:18

Below is generated by plot.py at 2018-04-17 17:40:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.03 Mbit/s

95th percentile per-packet one-way delay: 54.022 ms

Loss rate: 0.48%

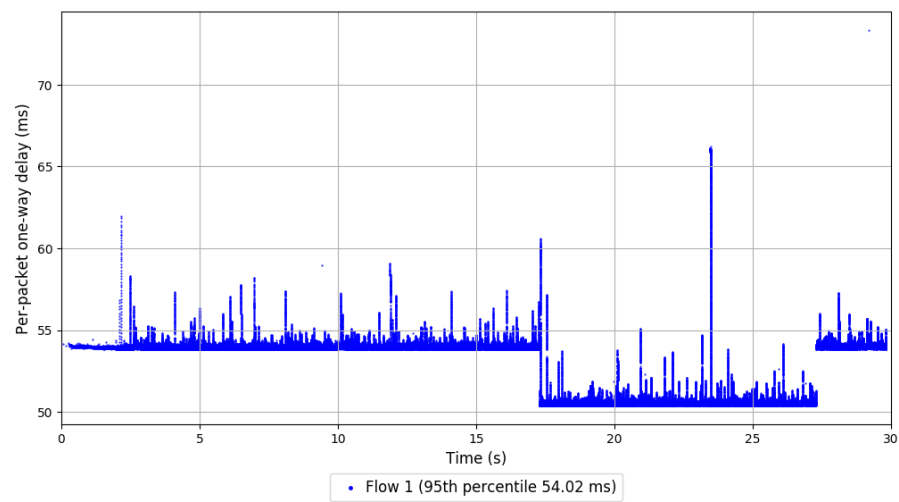
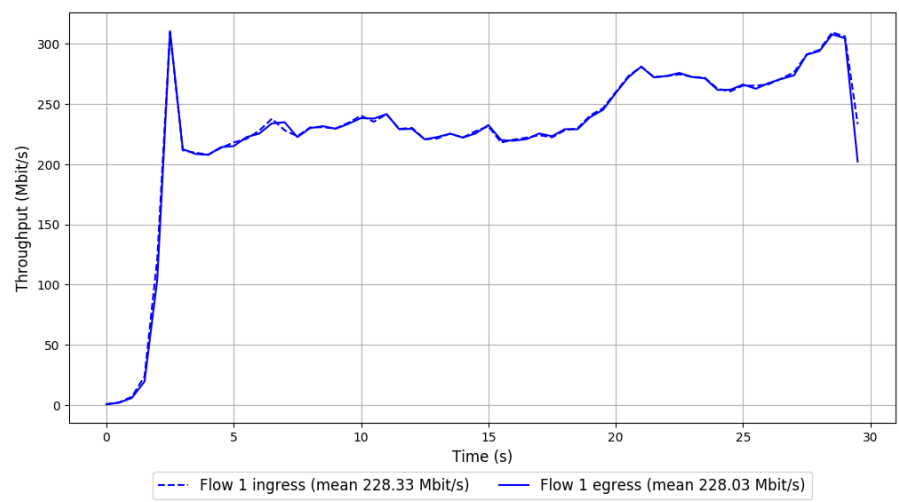
-- Flow 1:

Average throughput: 228.03 Mbit/s

95th percentile per-packet one-way delay: 54.022 ms

Loss rate: 0.48%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 12:28:52

End at: 2018-04-17 12:29:22

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-17 12:41:32

End at: 2018-04-17 12:42:02

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-17 12:54:12

End at: 2018-04-17 12:54:42

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-17 13:06:58

End at: 2018-04-17 13:07:28

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-17 13:20:05

End at: 2018-04-17 13:20:35

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-17 13:32:53

End at: 2018-04-17 13:33:23

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-17 13:45:37

End at: 2018-04-17 13:46:08

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-17 13:58:15

End at: 2018-04-17 13:58:45

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-17 14:10:58

End at: 2018-04-17 14:11:28

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-17 14:23:40

End at: 2018-04-17 14:24:10

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing