

Pantheon Report

Generated at 2018-04-17 18:43:40 (UTC).

Data path: GCE Iowa Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

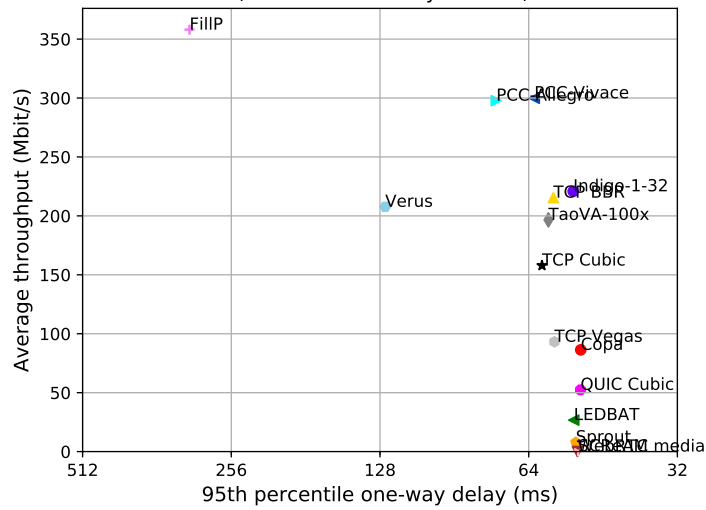
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

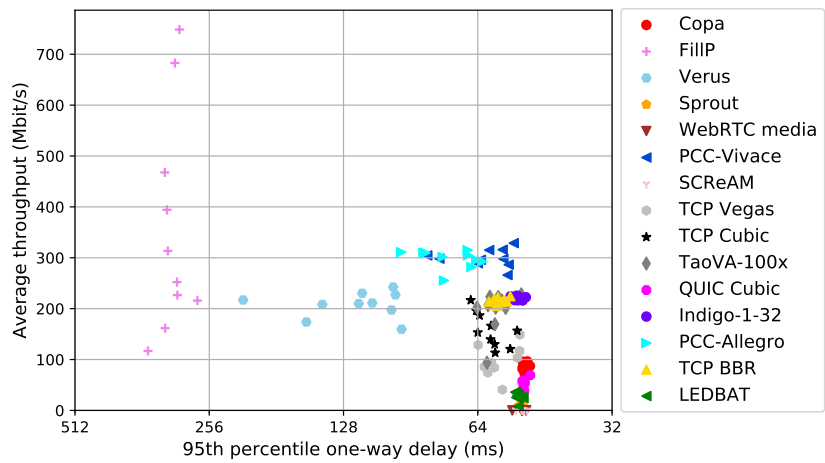
Git summary:

```
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 @ f1a14bffe749737437f61b1eaaeb30b267cde681
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 Iowa Ethernet to GCE London Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Iowa Ethernet to GCE London 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	215.45	57.03	0.00
TCP Cubic	10	157.87	60.16	0.00
LEDBAT	10	26.72	51.88	0.00
PCC-Allegro	10	297.75	74.44	0.18
QUIC Cubic	8	52.39	50.27	0.00
SCReAM	10	0.22	50.82	0.00
WebRTC media	10	0.06	50.99	0.00
Sprout	10	7.85	51.39	0.00
TaoVA-100x	10	196.59	58.39	0.00
TCP Vegas	10	93.17	56.77	0.00
Verus	10	207.70	124.95	0.47
Copa	10	86.33	50.21	0.00
FillP	10	358.01	311.08	11.05
Indigo-1-32	10	220.84	52.02	0.00
PCC-Vivace	10	299.81	62.35	0.04
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-17 14:29:30

End at: 2018-04-17 14:30:00

Below is generated by plot.py at 2018-04-17 17:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.11 Mbit/s

95th percentile per-packet one-way delay: 56.557 ms

Loss rate: 0.00%

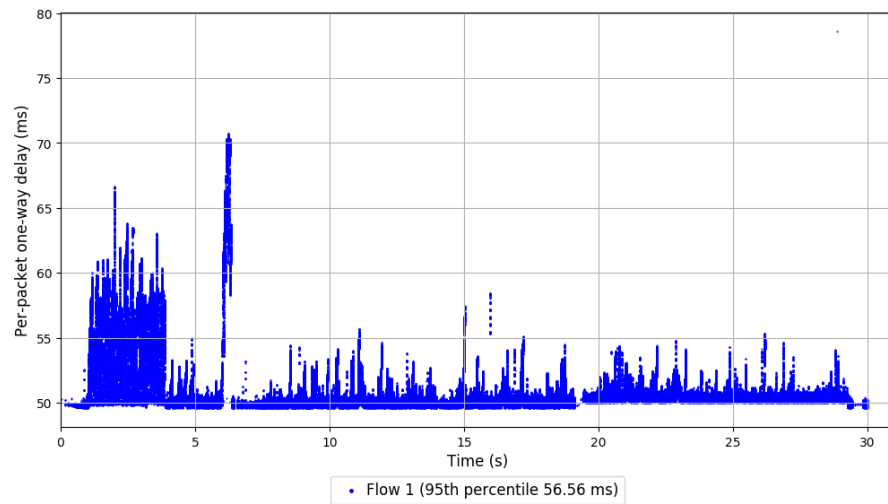
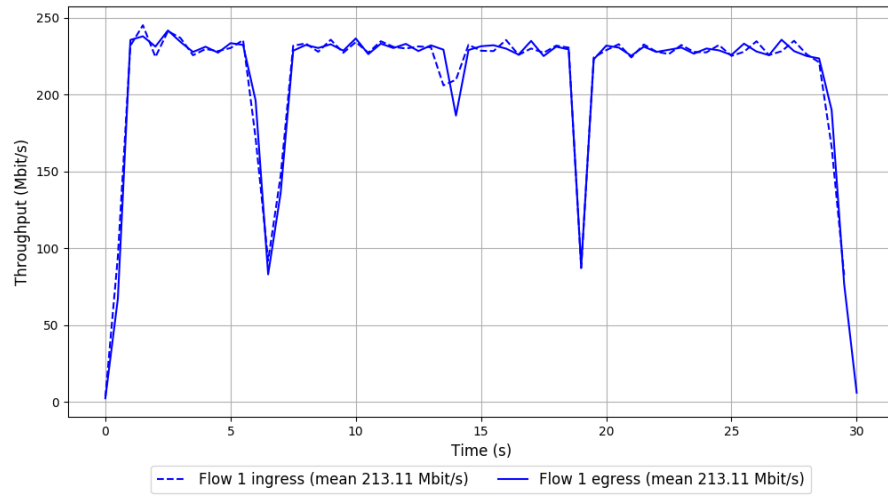
-- Flow 1:

Average throughput: 213.11 Mbit/s

95th percentile per-packet one-way delay: 56.557 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-17 14:42:03

End at: 2018-04-17 14:42:33

Below is generated by plot.py at 2018-04-17 17:53:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.62 Mbit/s

95th percentile per-packet one-way delay: 55.724 ms

Loss rate: 0.00%

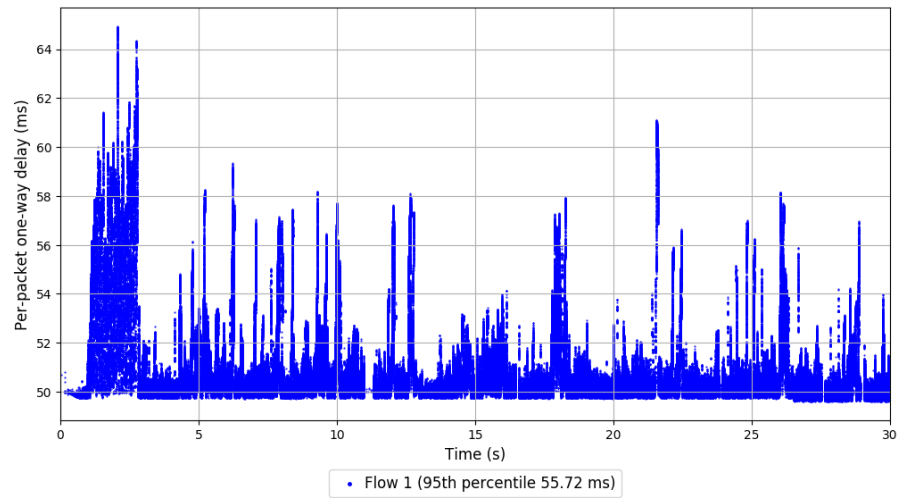
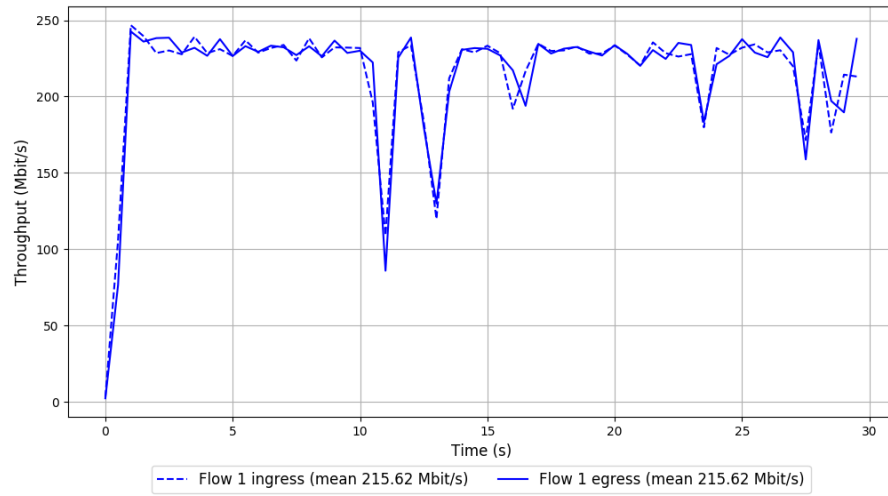
-- Flow 1:

Average throughput: 215.62 Mbit/s

95th percentile per-packet one-way delay: 55.724 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-17 14:54:35

End at: 2018-04-17 14:55:05

Below is generated by plot.py at 2018-04-17 17:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.53 Mbit/s

95th percentile per-packet one-way delay: 54.108 ms

Loss rate: 0.00%

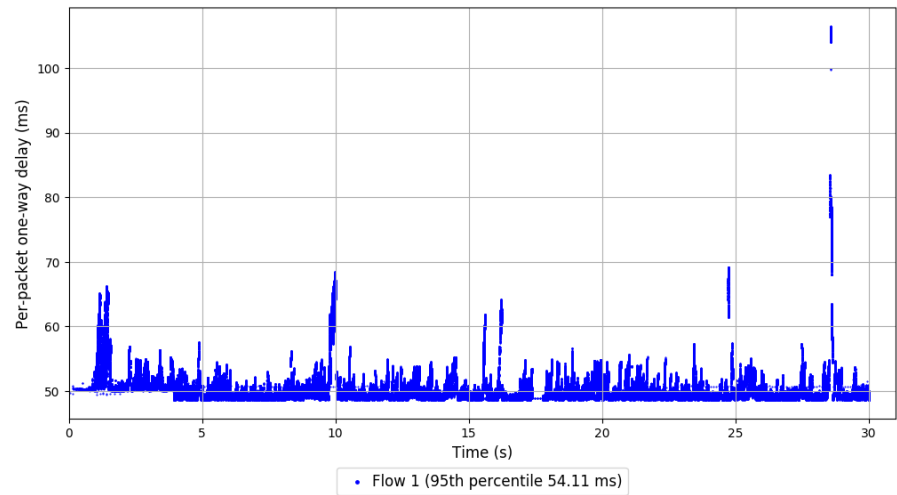
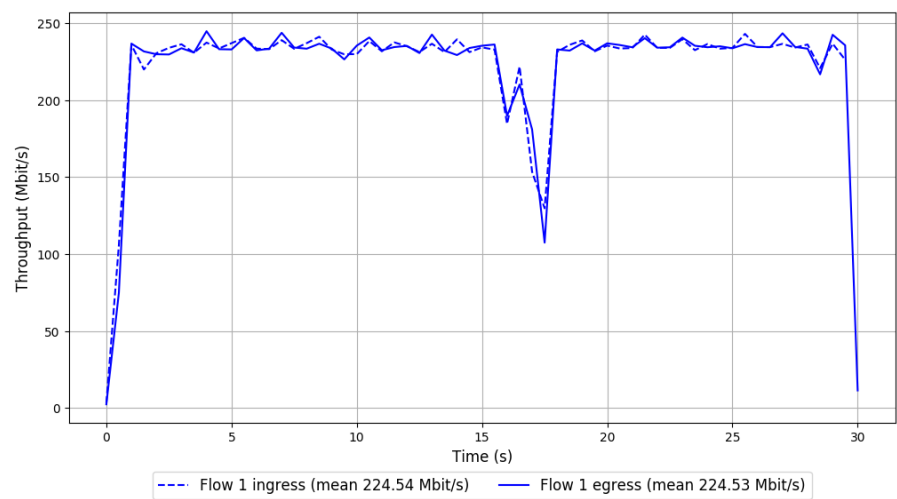
-- Flow 1:

Average throughput: 224.53 Mbit/s

95th percentile per-packet one-way delay: 54.108 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-17 15:07:24

End at: 2018-04-17 15:07:54

Below is generated by plot.py at 2018-04-17 17:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.91 Mbit/s

95th percentile per-packet one-way delay: 57.650 ms

Loss rate: 0.01%

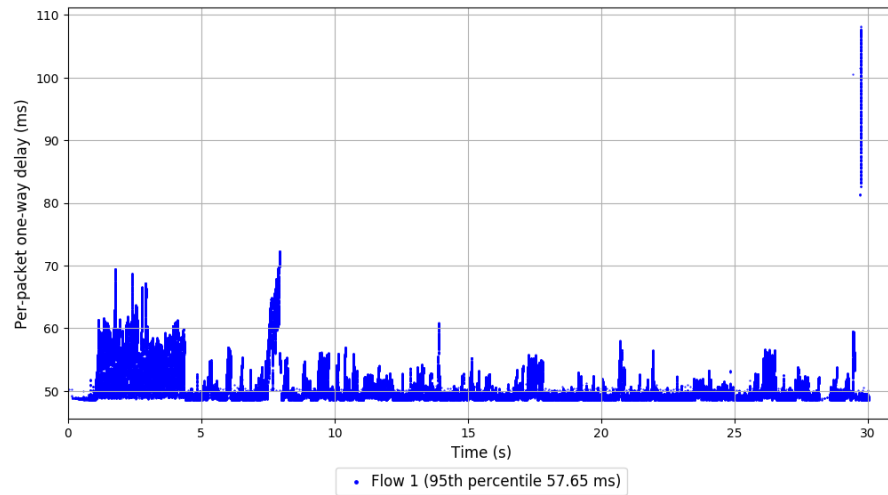
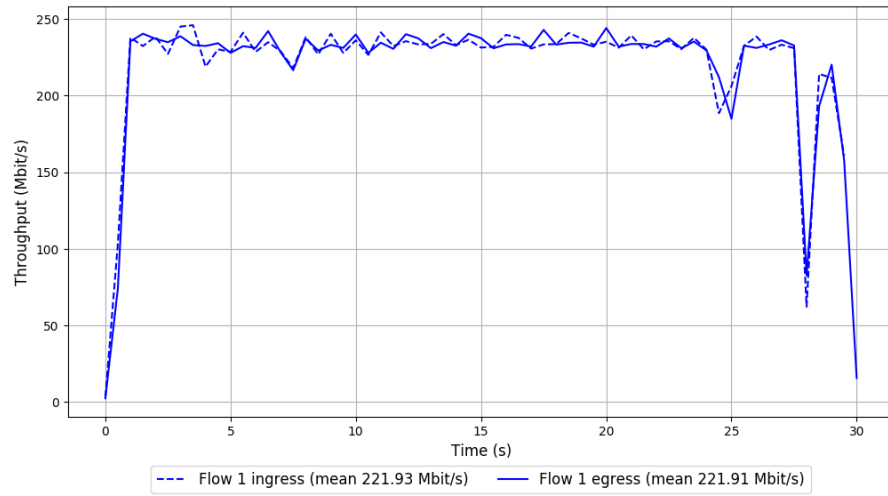
-- Flow 1:

Average throughput: 221.91 Mbit/s

95th percentile per-packet one-way delay: 57.650 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-17 15:20:13

End at: 2018-04-17 15:20:43

Below is generated by plot.py at 2018-04-17 17:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.49 Mbit/s

95th percentile per-packet one-way delay: 58.150 ms

Loss rate: 0.00%

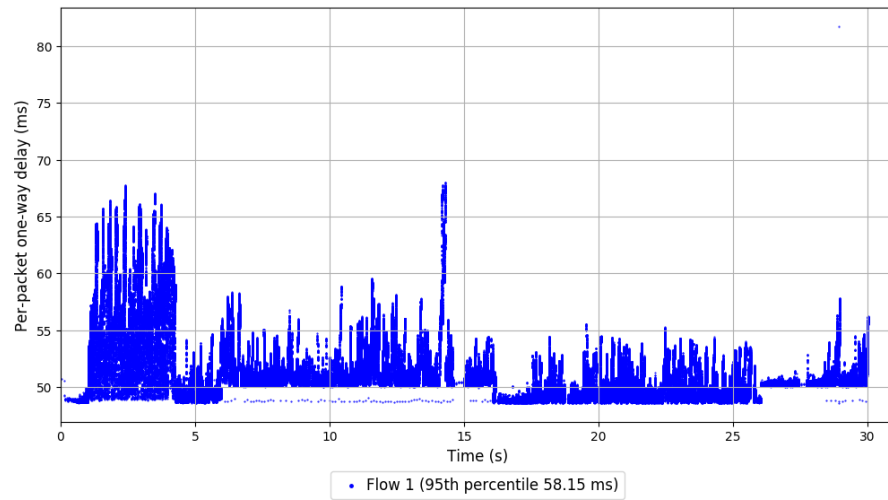
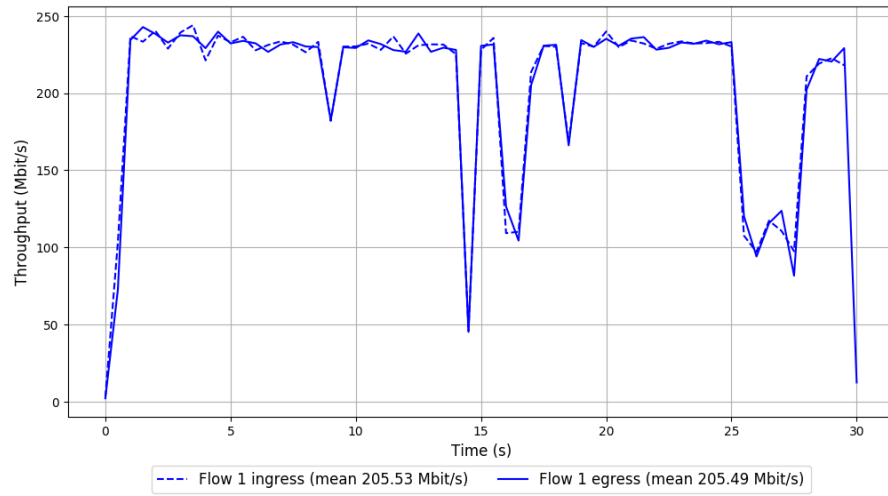
-- Flow 1:

Average throughput: 205.49 Mbit/s

95th percentile per-packet one-way delay: 58.150 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-17 15:32:53

End at: 2018-04-17 15:33:23

Below is generated by plot.py at 2018-04-17 17:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.31 Mbit/s

95th percentile per-packet one-way delay: 55.079 ms

Loss rate: 0.00%

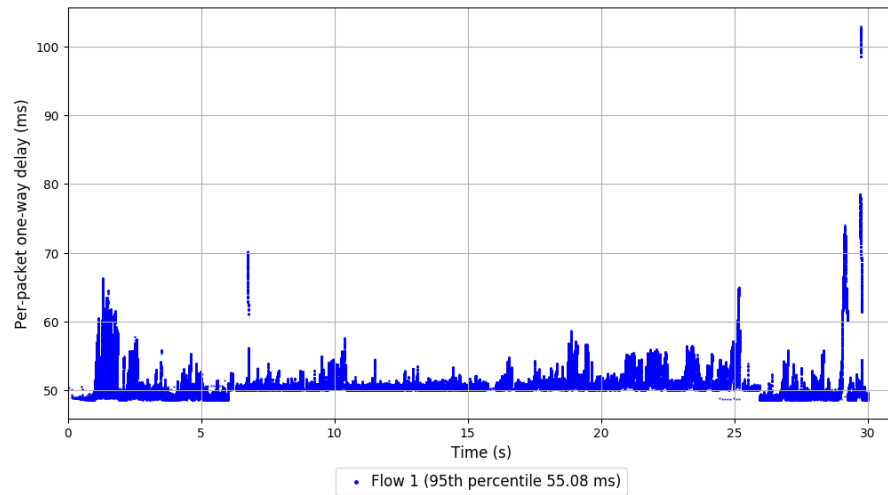
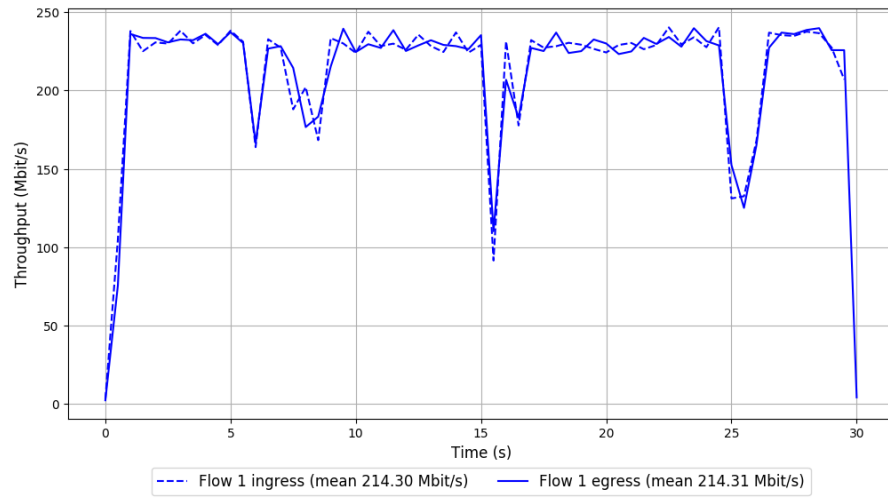
-- Flow 1:

Average throughput: 214.31 Mbit/s

95th percentile per-packet one-way delay: 55.079 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-17 15:45:22

End at: 2018-04-17 15:45:52

Below is generated by plot.py at 2018-04-17 17:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.80 Mbit/s

95th percentile per-packet one-way delay: 57.822 ms

Loss rate: 0.00%

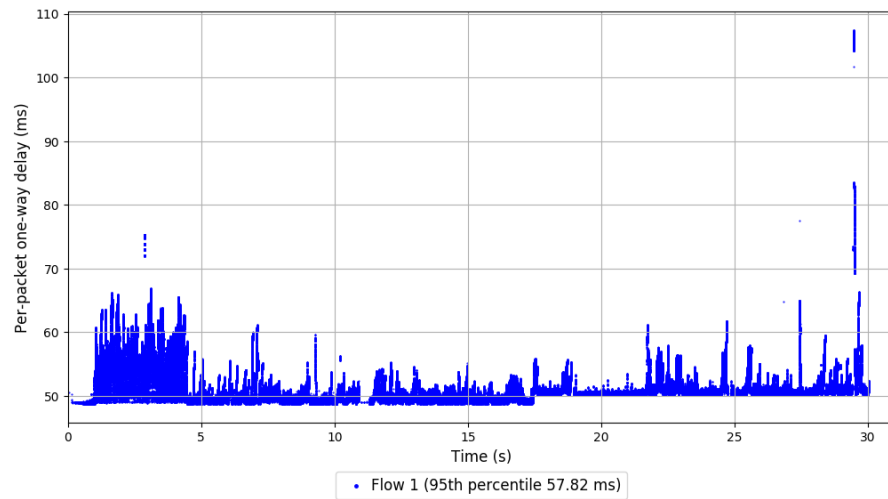
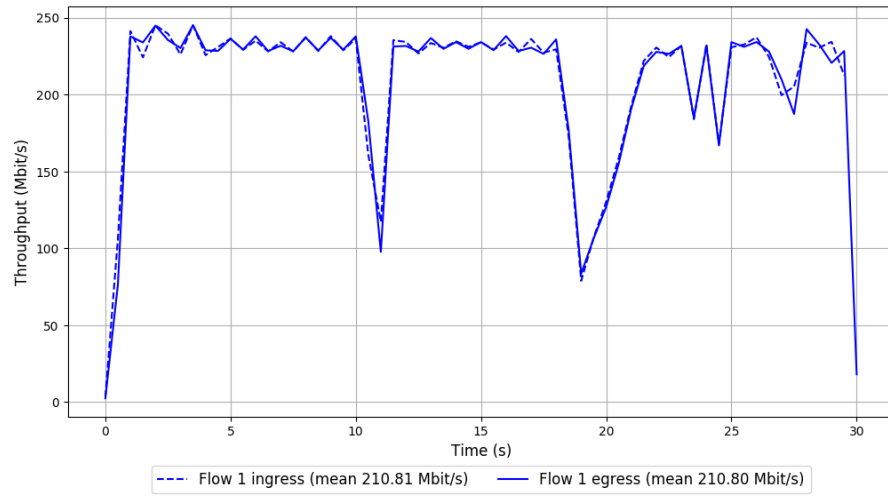
-- Flow 1:

Average throughput: 210.80 Mbit/s

95th percentile per-packet one-way delay: 57.822 ms

Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-17 15:57:42

End at: 2018-04-17 15:58:12

Below is generated by plot.py at 2018-04-17 17:53:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.89 Mbit/s

95th percentile per-packet one-way delay: 60.408 ms

Loss rate: 0.00%

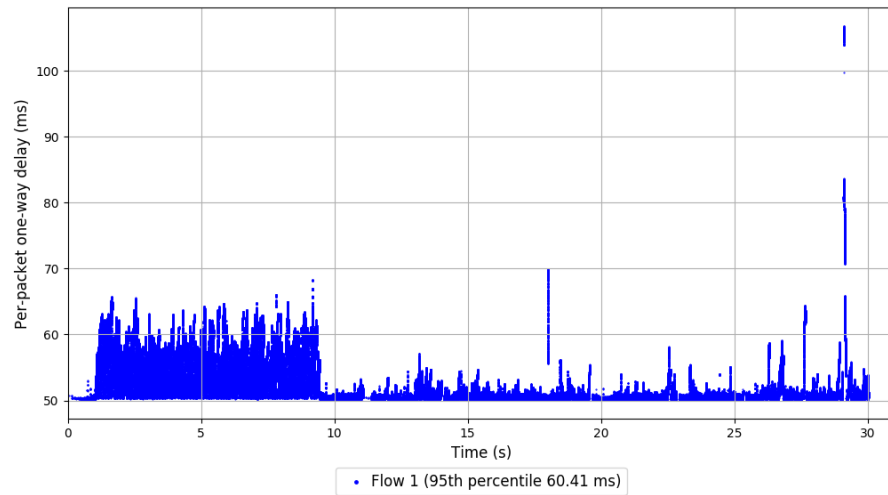
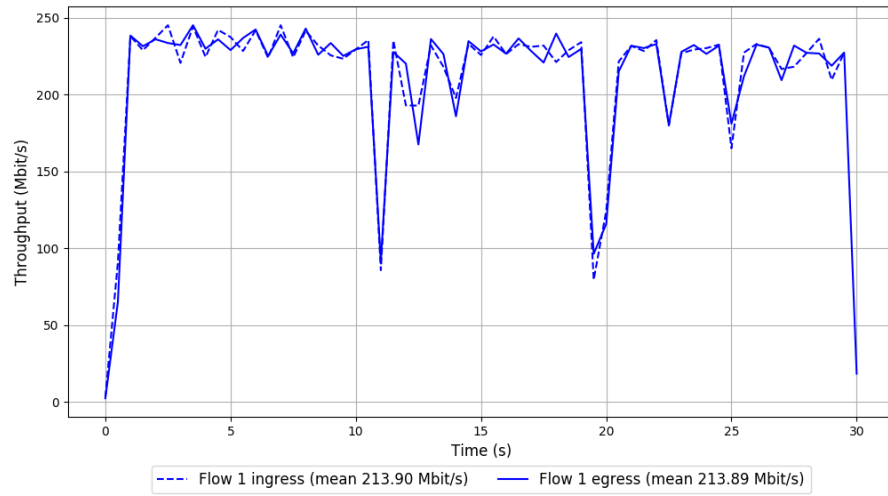
-- Flow 1:

Average throughput: 213.89 Mbit/s

95th percentile per-packet one-way delay: 60.408 ms

Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-17 16:10:29

End at: 2018-04-17 16:10:59

Below is generated by plot.py at 2018-04-17 17:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.47 Mbit/s

95th percentile per-packet one-way delay: 56.046 ms

Loss rate: 0.00%

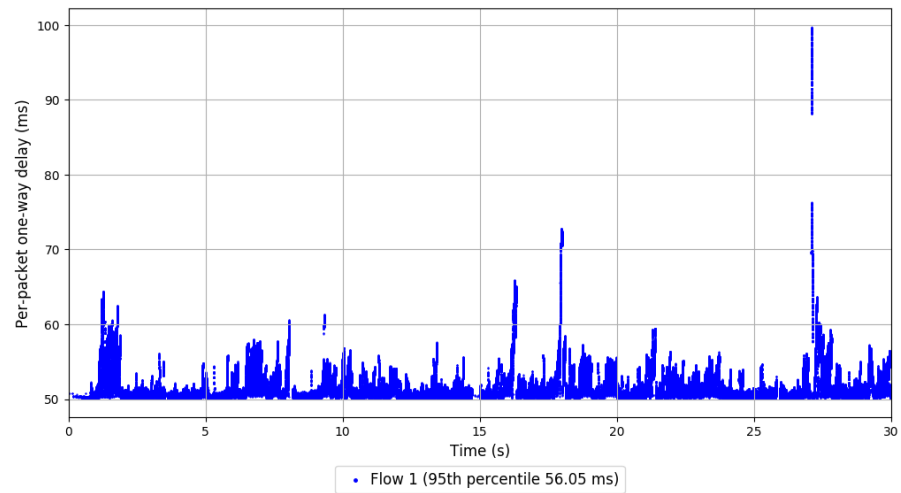
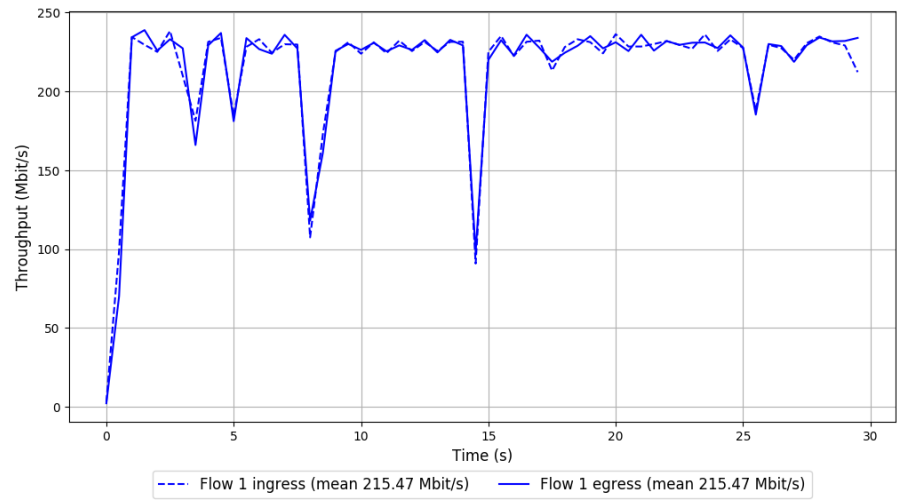
-- Flow 1:

Average throughput: 215.47 Mbit/s

95th percentile per-packet one-way delay: 56.046 ms

Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-17 16:23:04

End at: 2018-04-17 16:23:34

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.39 Mbit/s

95th percentile per-packet one-way delay: 58.801 ms

Loss rate: 0.00%

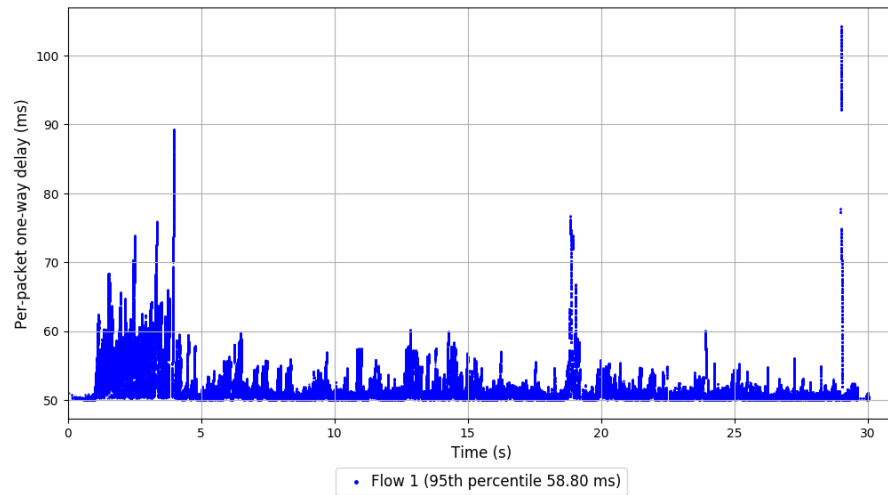
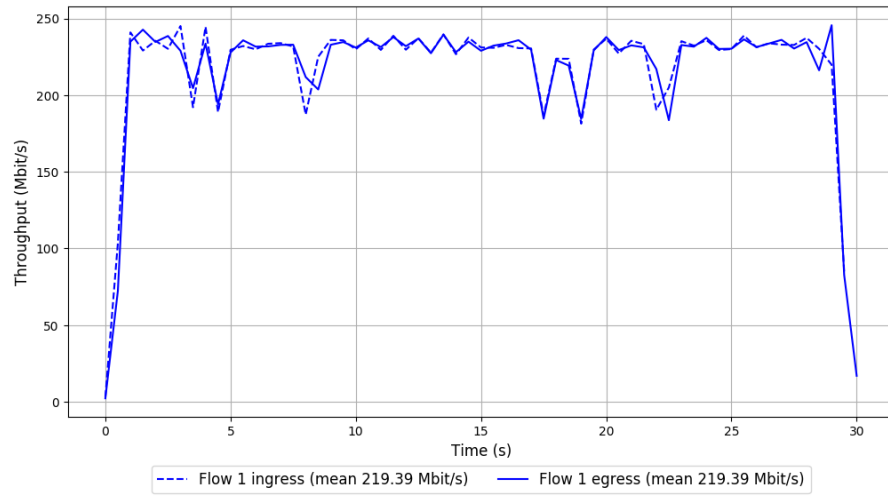
-- Flow 1:

Average throughput: 219.39 Mbit/s

95th percentile per-packet one-way delay: 58.801 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-17 14:34:39

End at: 2018-04-17 14:35:09

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.16 Mbit/s

95th percentile per-packet one-way delay: 59.778 ms

Loss rate: 0.00%

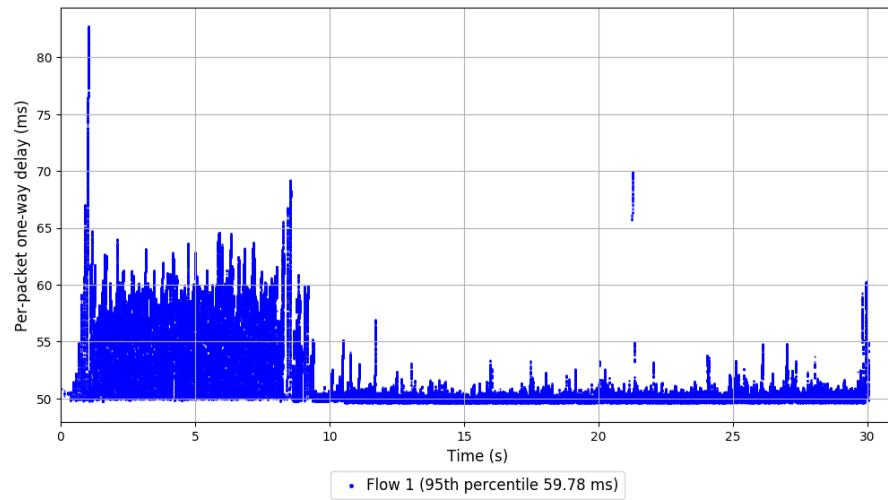
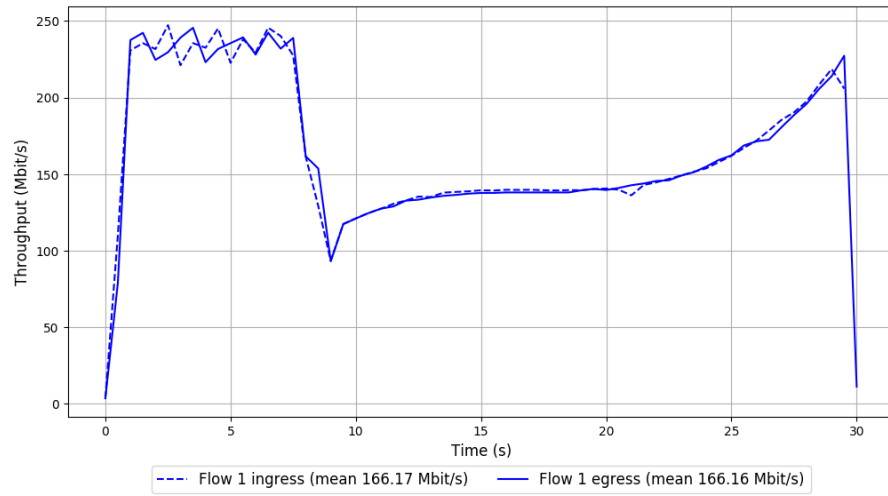
-- Flow 1:

Average throughput: 166.16 Mbit/s

95th percentile per-packet one-way delay: 59.778 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-17 14:47:08

End at: 2018-04-17 14:47:38

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 58.667 ms

Loss rate: 0.01%

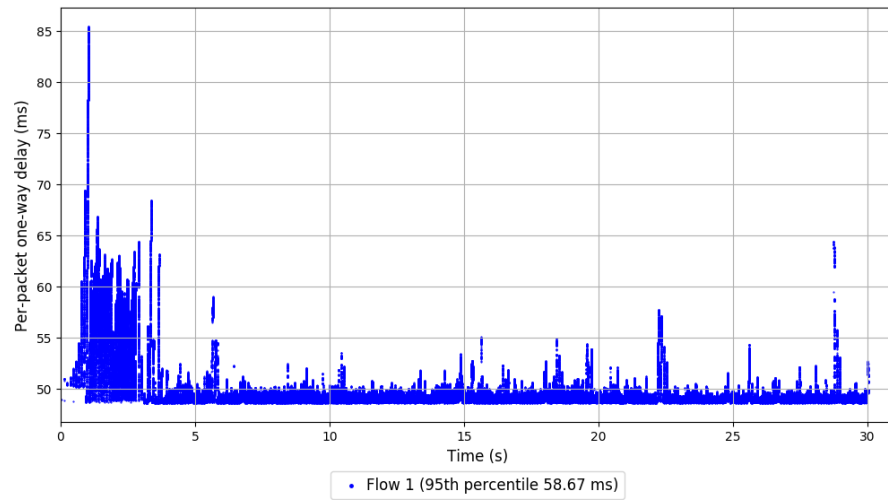
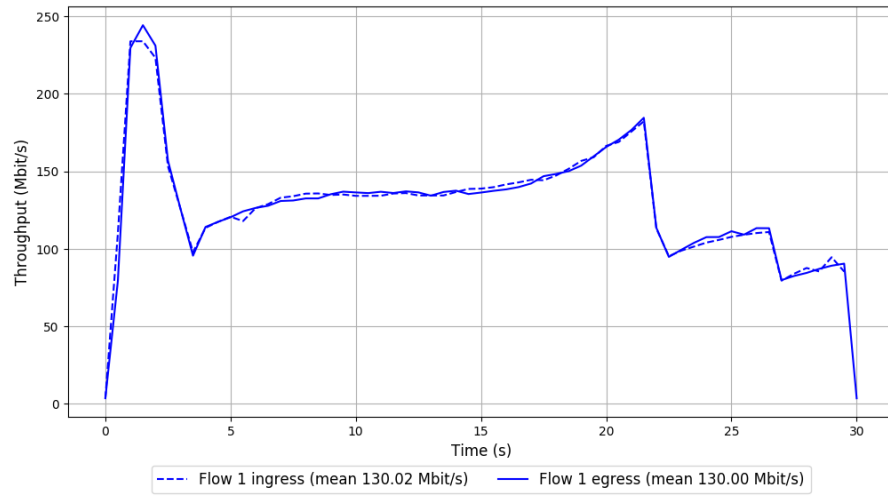
-- Flow 1:

Average throughput: 130.00 Mbit/s

95th percentile per-packet one-way delay: 58.667 ms

Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-17 15:00:02

End at: 2018-04-17 15:00:32

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.37 Mbit/s

95th percentile per-packet one-way delay: 58.513 ms

Loss rate: 0.00%

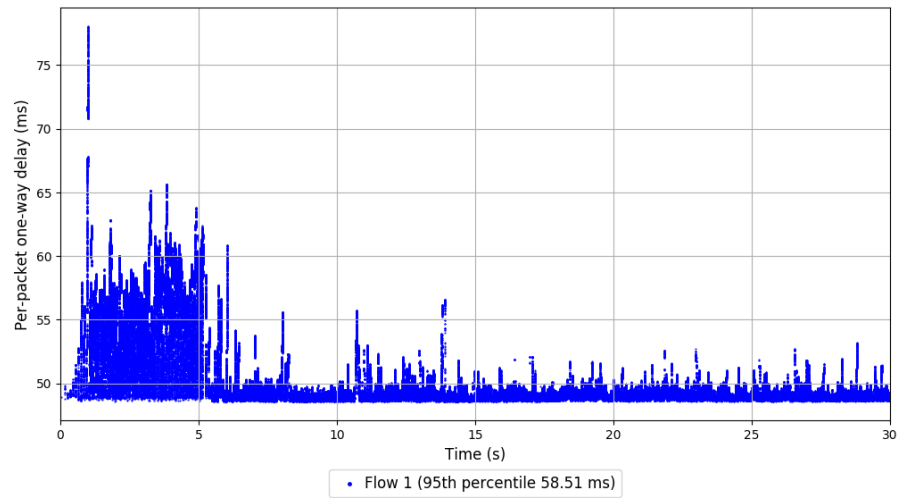
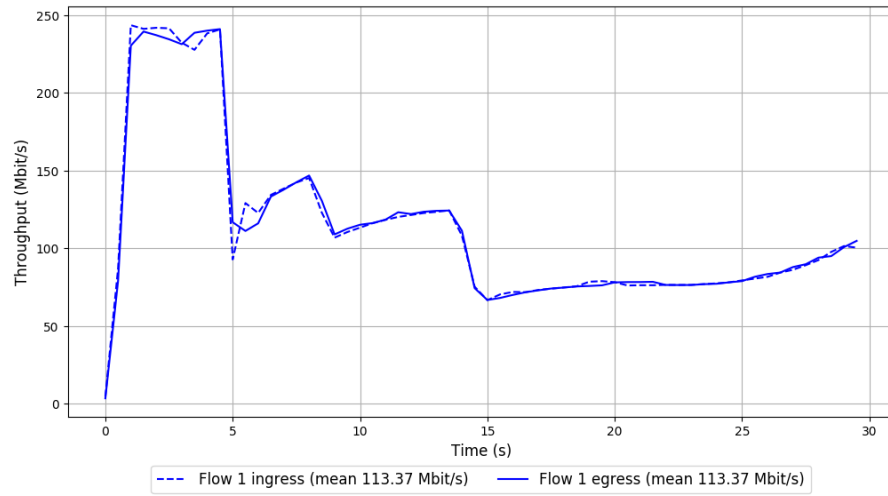
-- Flow 1:

Average throughput: 113.37 Mbit/s

95th percentile per-packet one-way delay: 58.513 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-17 15:12:51

End at: 2018-04-17 15:13:21

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.55 Mbit/s

95th percentile per-packet one-way delay: 63.415 ms

Loss rate: 0.00%

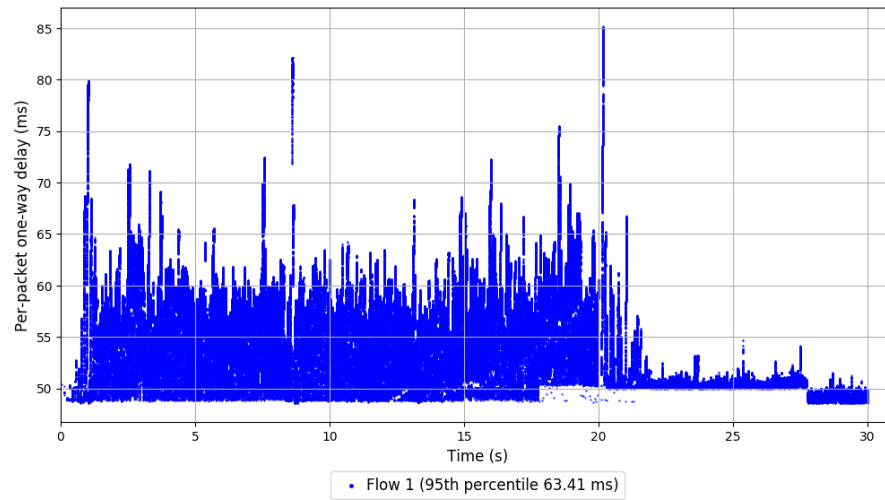
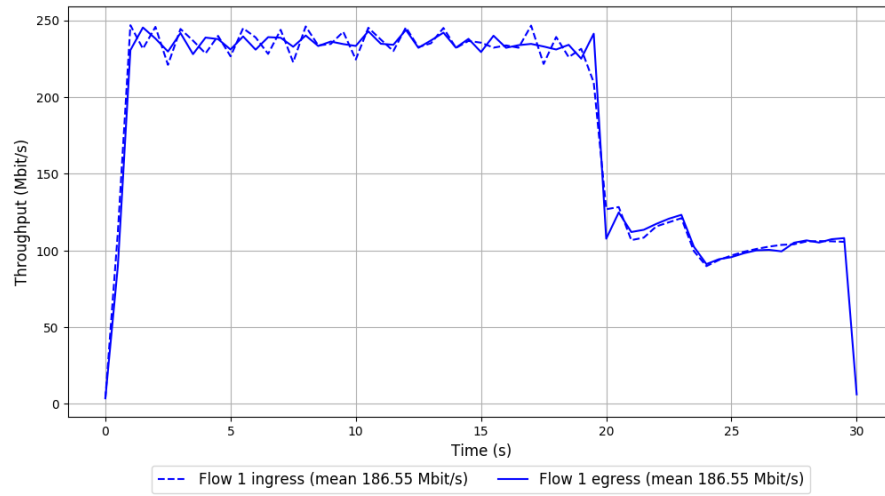
-- Flow 1:

Average throughput: 186.55 Mbit/s

95th percentile per-packet one-way delay: 63.415 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-17 15:25:30

End at: 2018-04-17 15:26:00

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.62 Mbit/s

95th percentile per-packet one-way delay: 54.139 ms

Loss rate: 0.01%

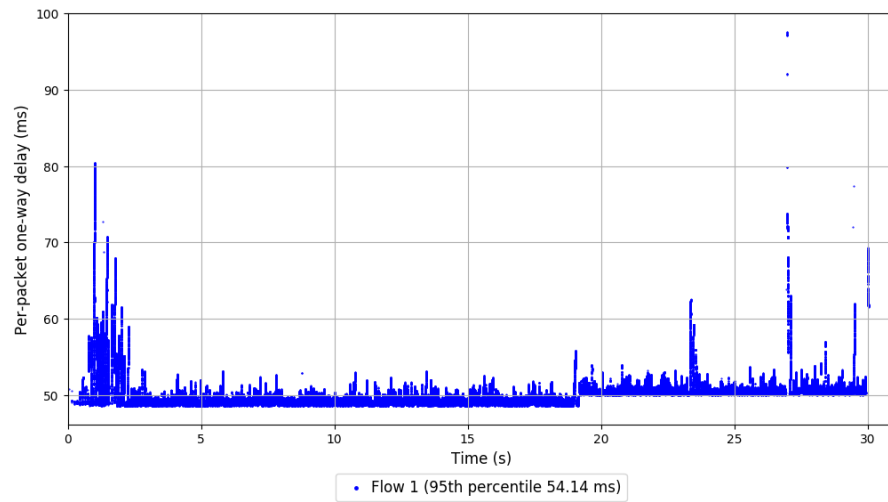
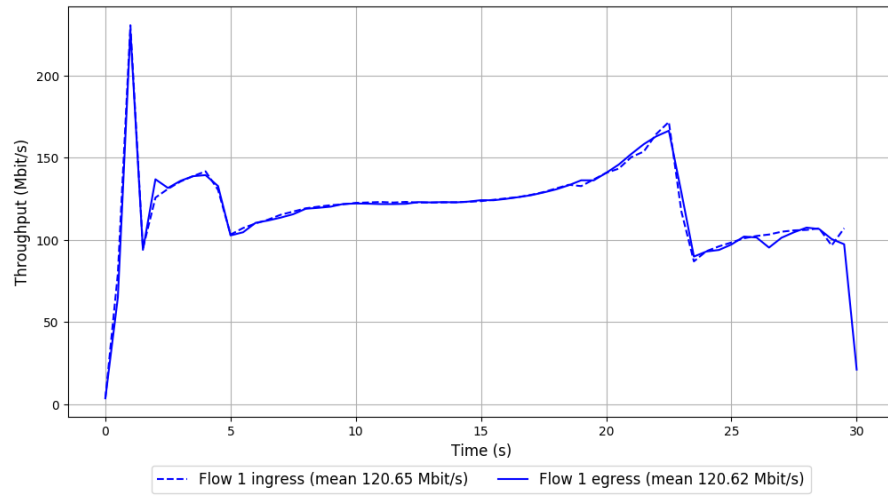
-- Flow 1:

Average throughput: 120.62 Mbit/s

95th percentile per-packet one-way delay: 54.139 ms

Loss rate: 0.01%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-17 15:37:58

End at: 2018-04-17 15:38:28

Below is generated by plot.py at 2018-04-17 17:57:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.64 Mbit/s

95th percentile per-packet one-way delay: 52.222 ms

Loss rate: 0.00%

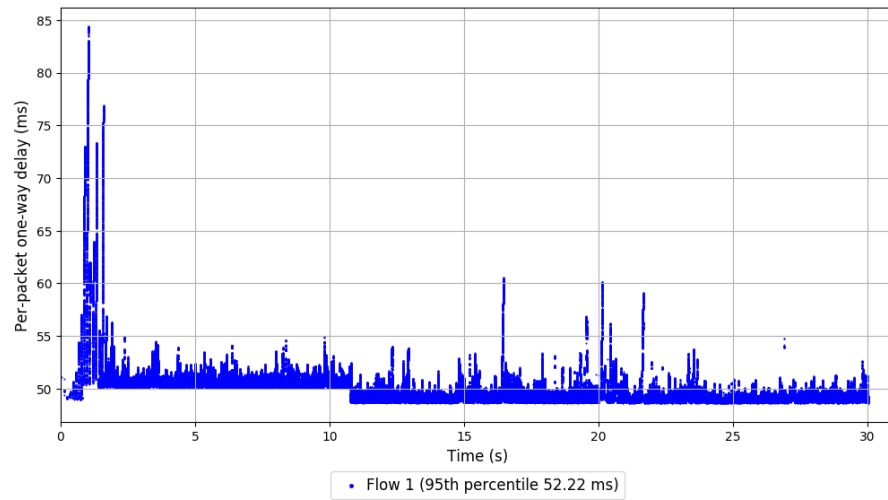
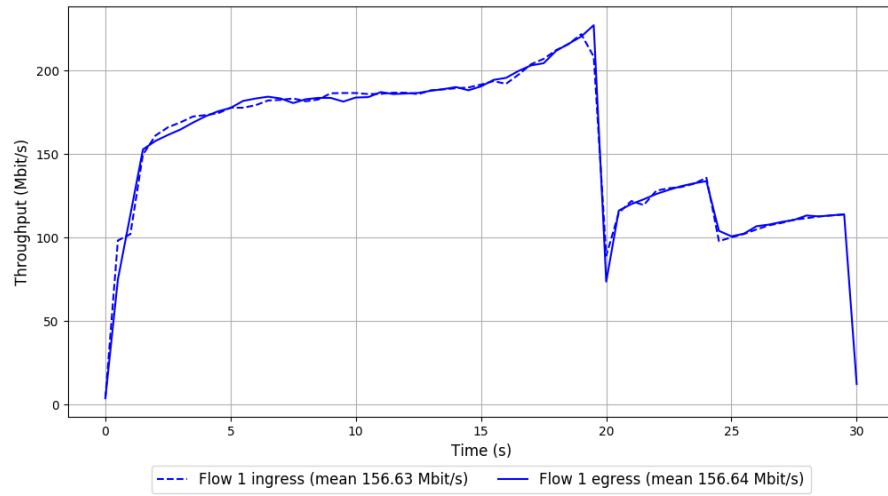
-- Flow 1:

Average throughput: 156.64 Mbit/s

95th percentile per-packet one-way delay: 52.222 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-17 15:50:29

End at: 2018-04-17 15:50:59

Below is generated by plot.py at 2018-04-17 17:57:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.60 Mbit/s

95th percentile per-packet one-way delay: 59.919 ms

Loss rate: 0.02%

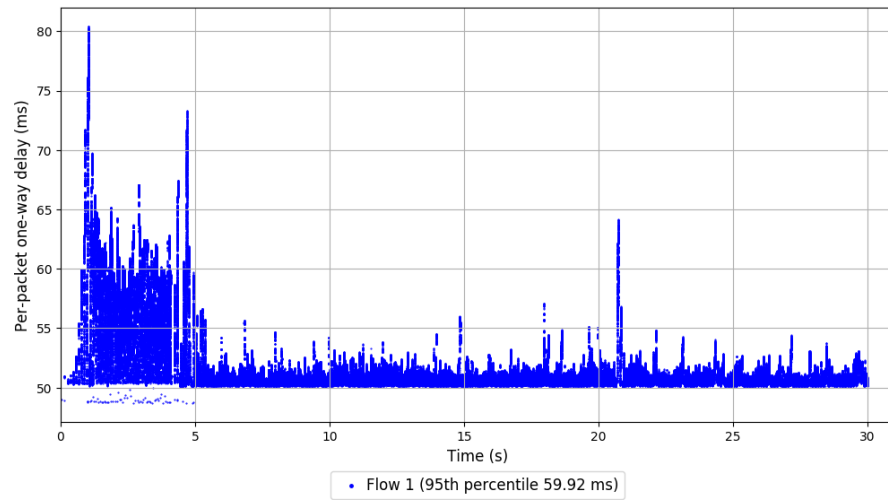
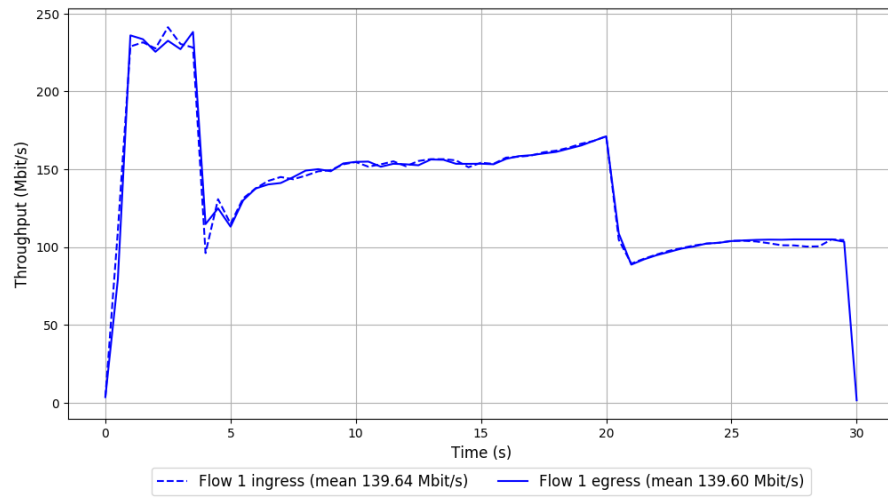
-- Flow 1:

Average throughput: 139.60 Mbit/s

95th percentile per-packet one-way delay: 59.919 ms

Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-17 16:03:04

End at: 2018-04-17 16:03:34

Below is generated by plot.py at 2018-04-17 17:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.70 Mbit/s

95th percentile per-packet one-way delay: 66.371 ms

Loss rate: 0.00%

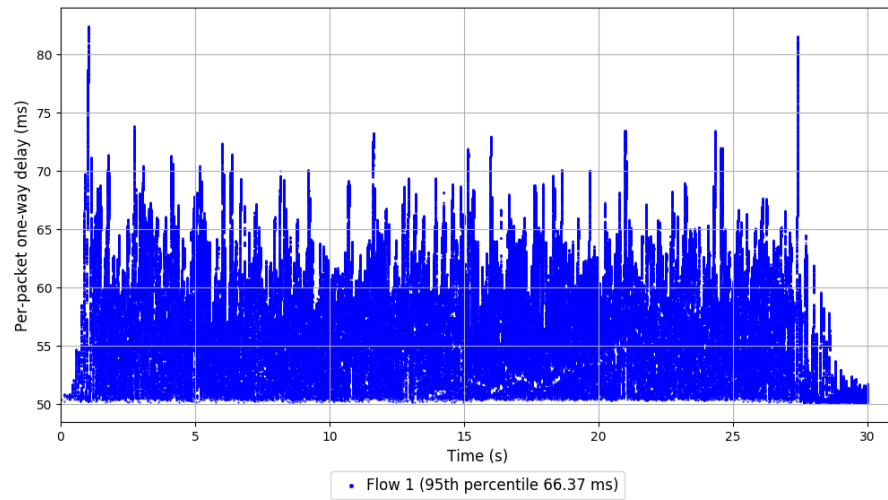
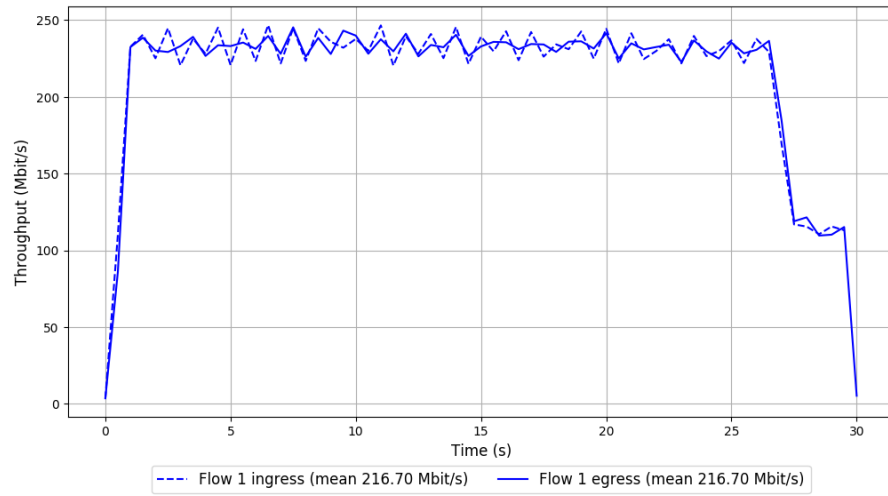
-- Flow 1:

Average throughput: 216.70 Mbit/s

95th percentile per-packet one-way delay: 66.371 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-17 16:15:42

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

Below is generated by plot.py at 2018-04-17 17:59:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.20 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.00%

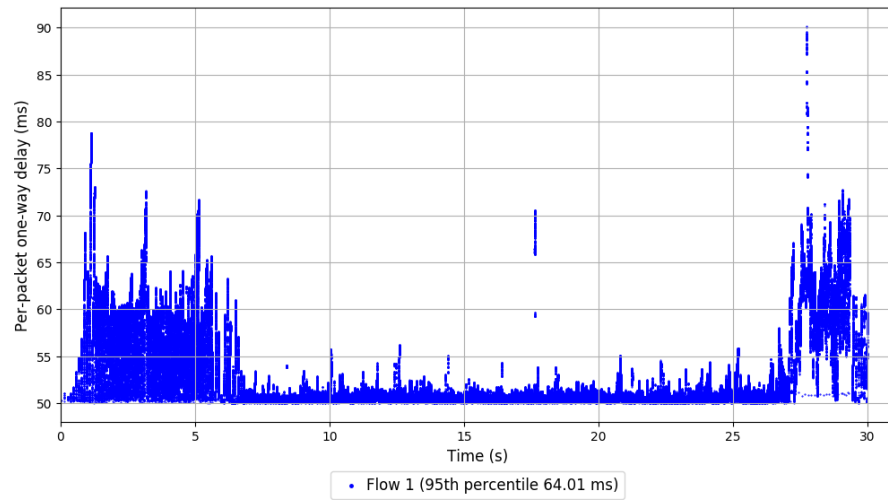
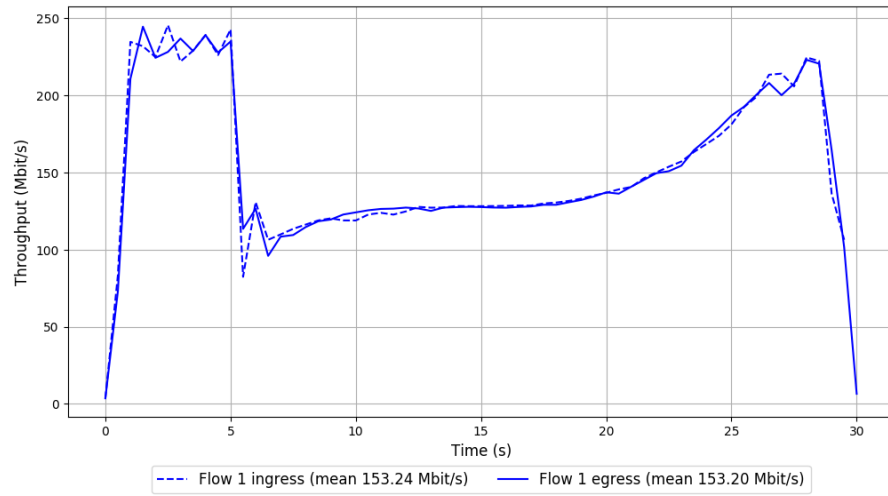
-- Flow 1:

Average throughput: 153.20 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-17 16:28:13

End at: 2018-04-17 16:28:43

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.88 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.00%

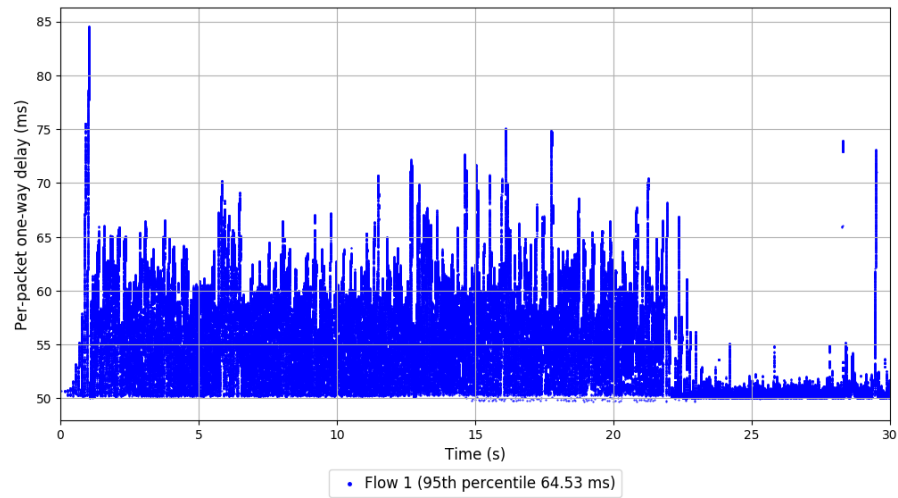
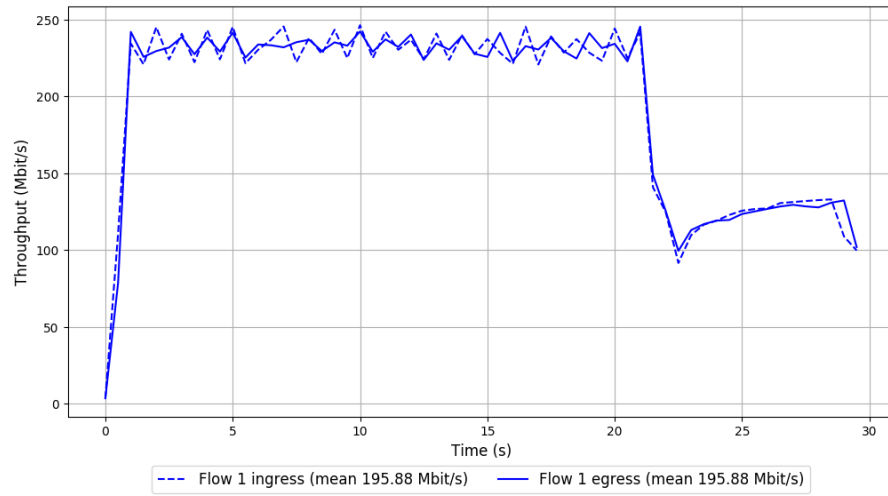
-- Flow 1:

Average throughput: 195.88 Mbit/s

95th percentile per-packet one-way delay: 64.533 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

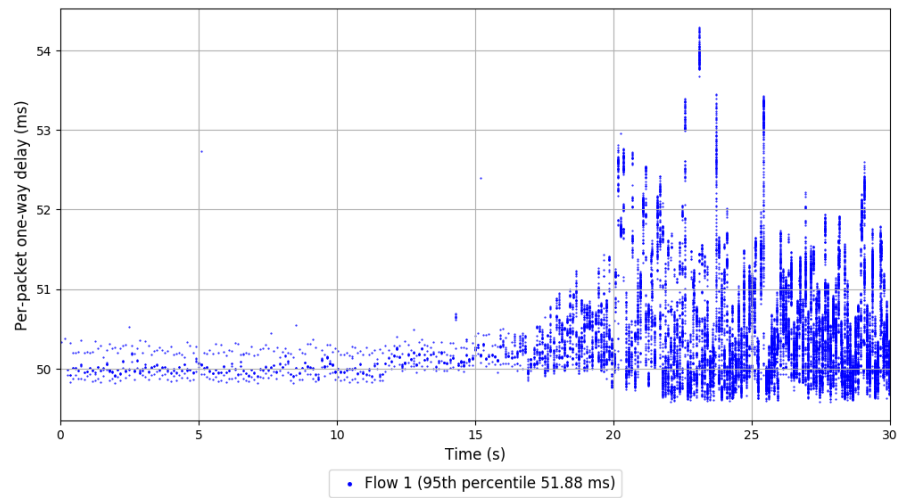
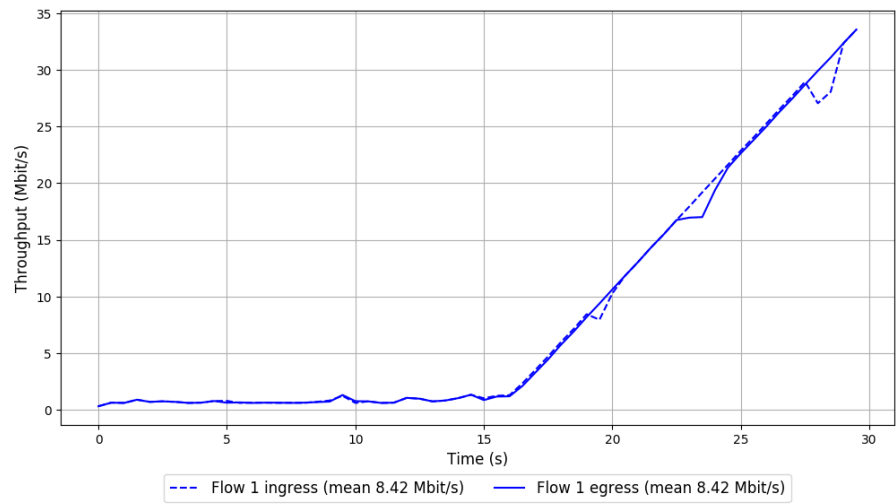


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-17 14:28:07
End at: 2018-04-17 14:28:37

# Below is generated by plot.py at 2018-04-17 17:59:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.42 Mbit/s
95th percentile per-packet one-way delay: 51.881 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

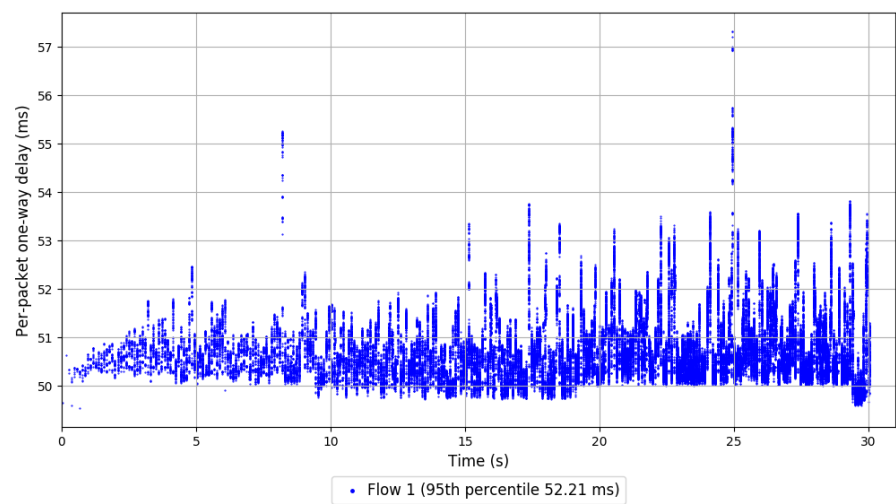
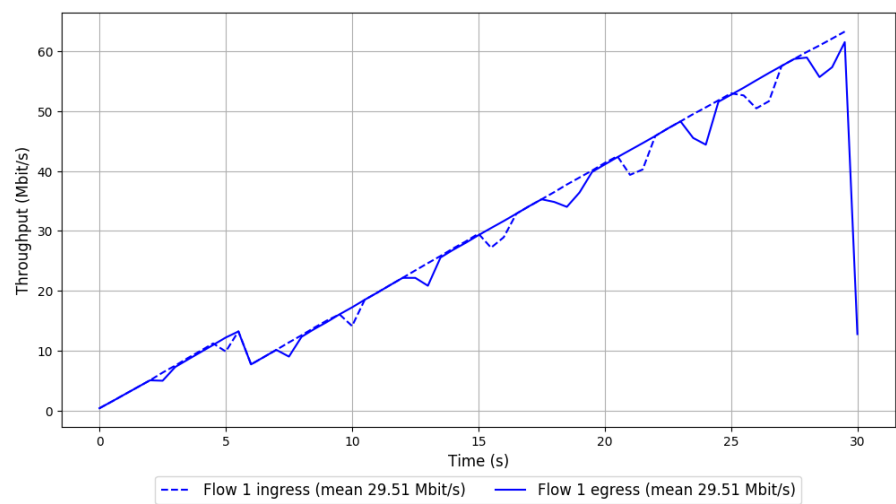


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-17 14:40:40
End at: 2018-04-17 14:41:10

# Below is generated by plot.py at 2018-04-17 17:59:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 52.211 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 29.51 Mbit/s
95th percentile per-packet one-way delay: 52.211 ms
Loss rate: 0.00%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-17 14:53:12

End at: 2018-04-17 14:53:42

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.00%

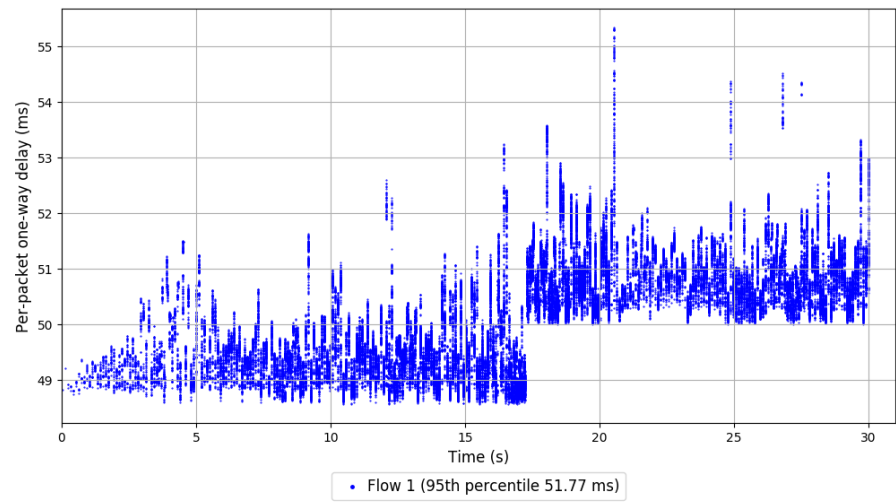
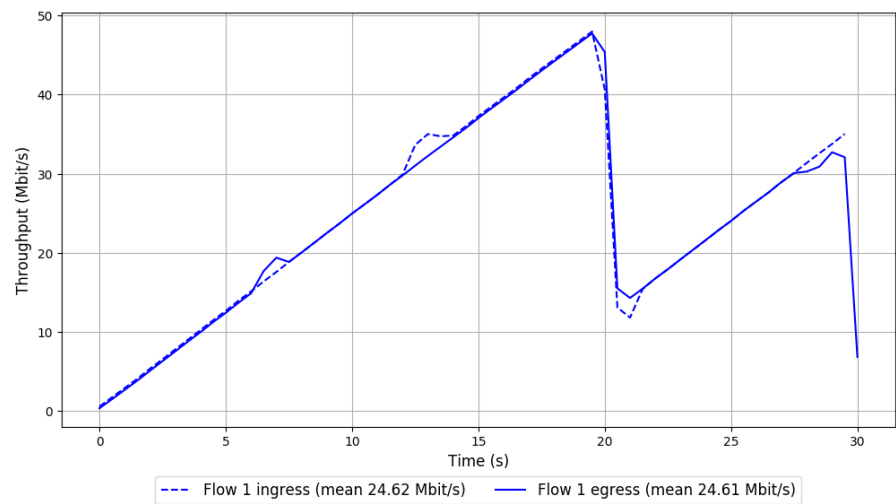
-- Flow 1:

Average throughput: 24.61 Mbit/s

95th percentile per-packet one-way delay: 51.771 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-17 15:06:01

End at: 2018-04-17 15:06:31

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 50.975 ms

Loss rate: 0.00%

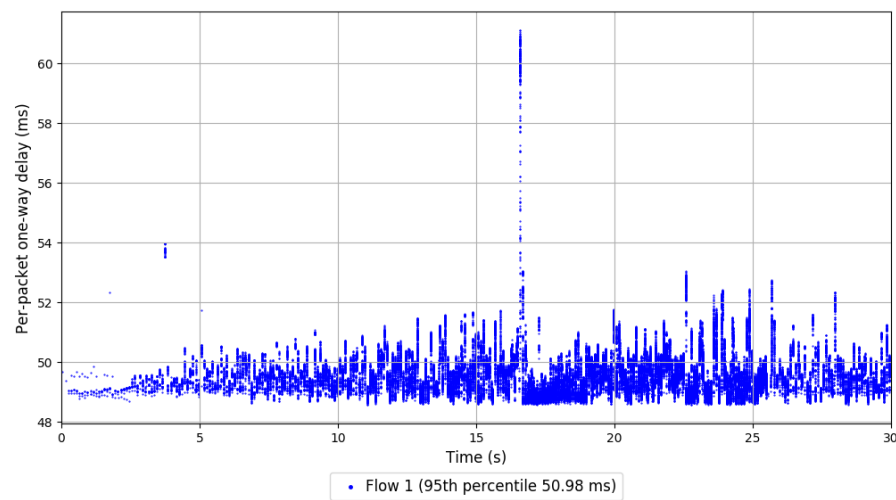
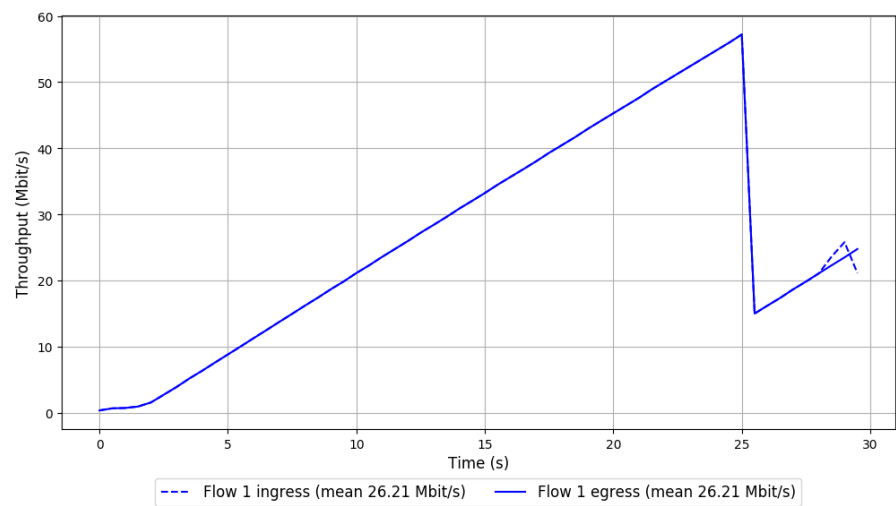
-- Flow 1:

Average throughput: 26.21 Mbit/s

95th percentile per-packet one-way delay: 50.975 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-17 15:18:50

End at: 2018-04-17 15:19:20

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 51.761 ms

Loss rate: 0.00%

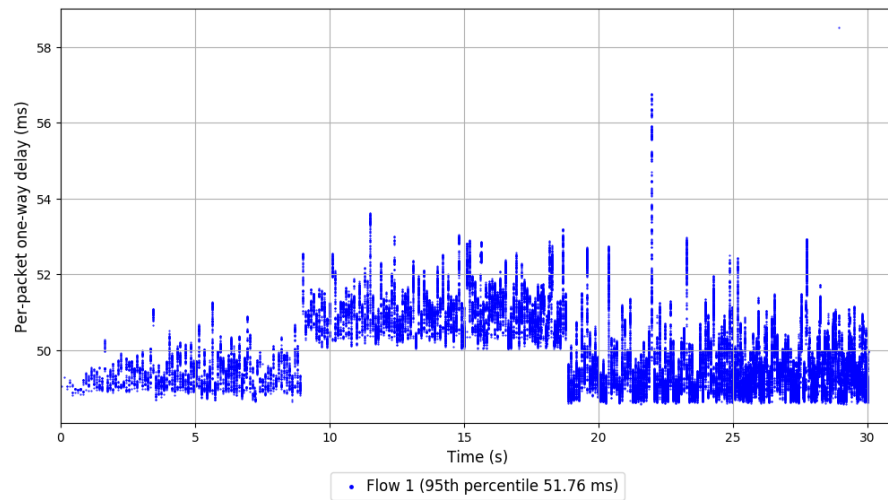
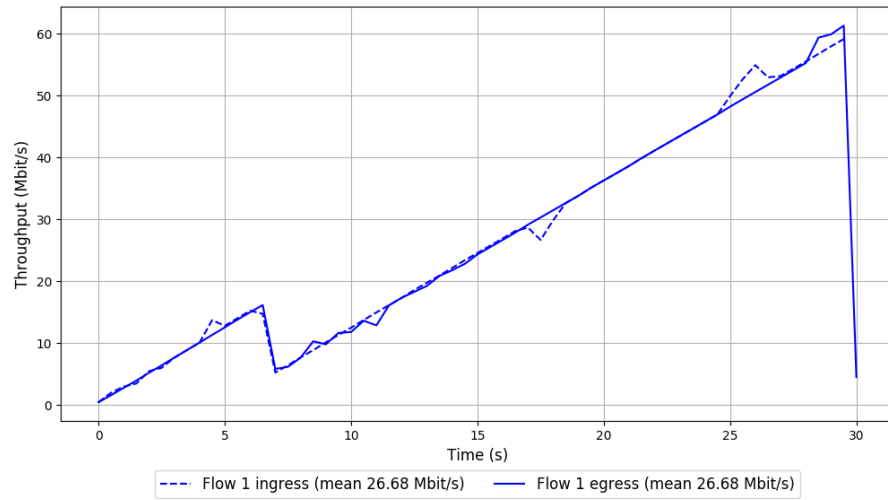
-- Flow 1:

Average throughput: 26.68 Mbit/s

95th percentile per-packet one-way delay: 51.761 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-17 15:31:31

End at: 2018-04-17 15:32:01

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 51.886 ms

Loss rate: 0.00%

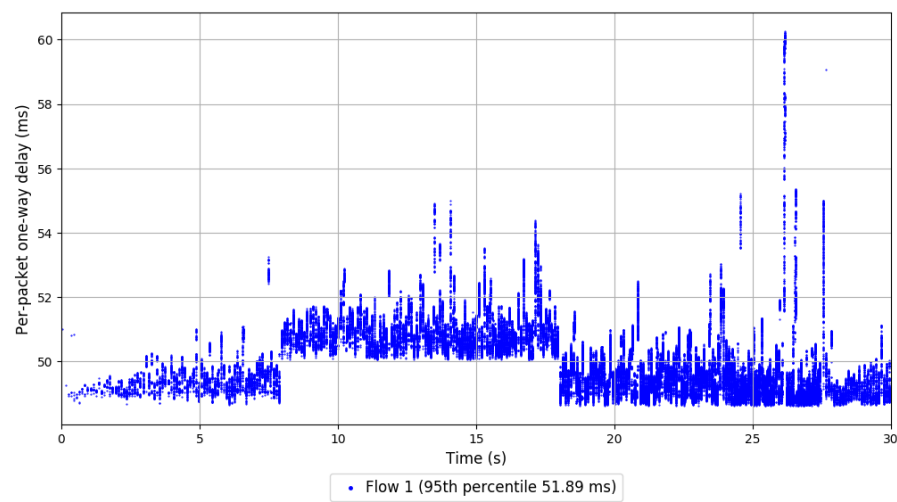
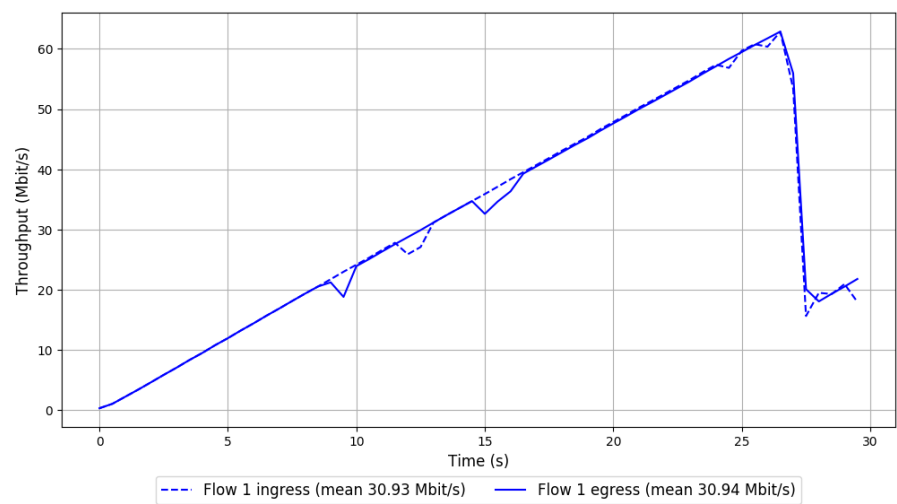
-- Flow 1:

Average throughput: 30.94 Mbit/s

95th percentile per-packet one-way delay: 51.886 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-17 15:43:59

End at: 2018-04-17 15:44:29

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

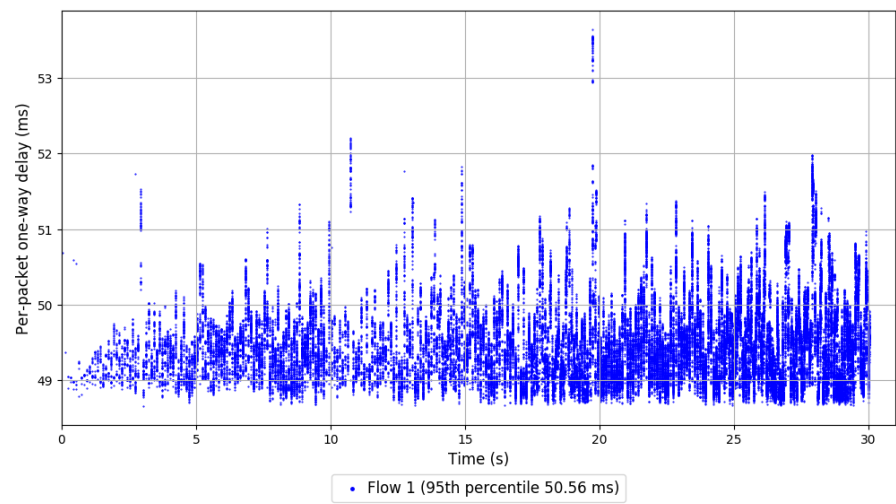
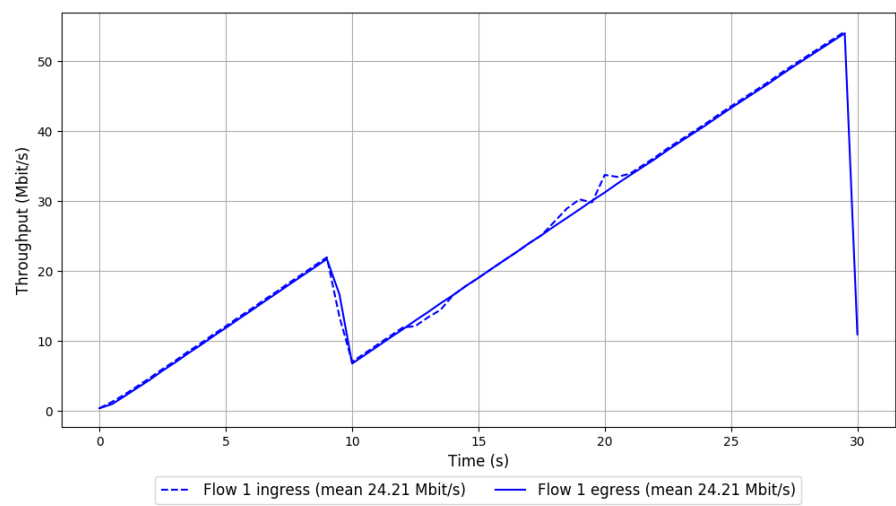
-- Flow 1:

Average throughput: 24.21 Mbit/s

95th percentile per-packet one-way delay: 50.556 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-17 15:56:18

End at: 2018-04-17 15:56:48

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 52.453 ms

Loss rate: 0.00%

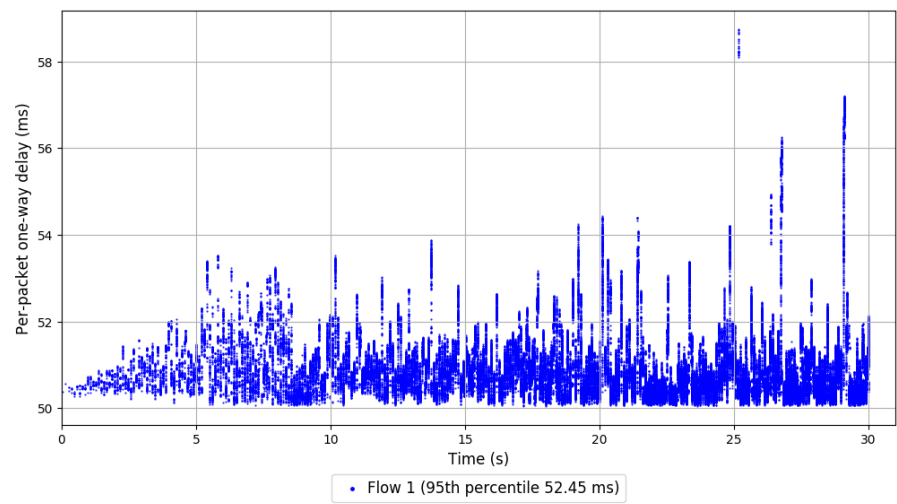
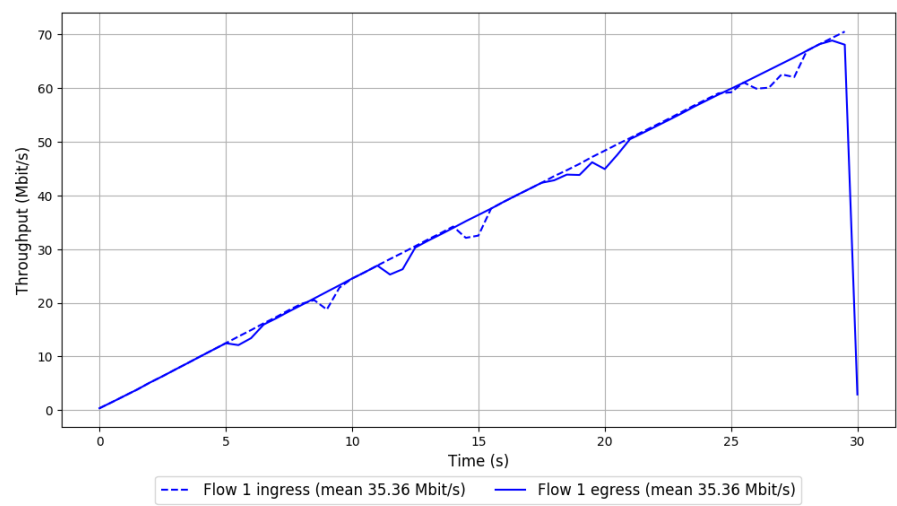
-- Flow 1:

Average throughput: 35.36 Mbit/s

95th percentile per-packet one-way delay: 52.453 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-17 16:09:06

End at: 2018-04-17 16:09:36

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 52.763 ms

Loss rate: 0.00%

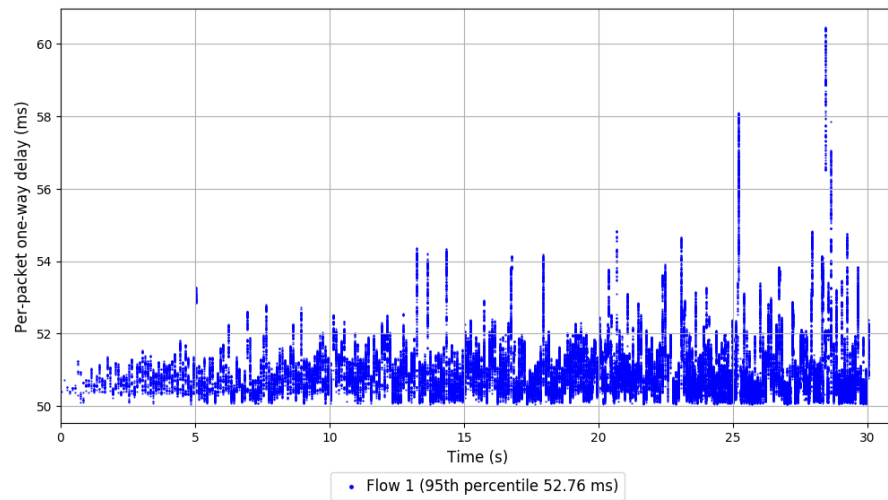
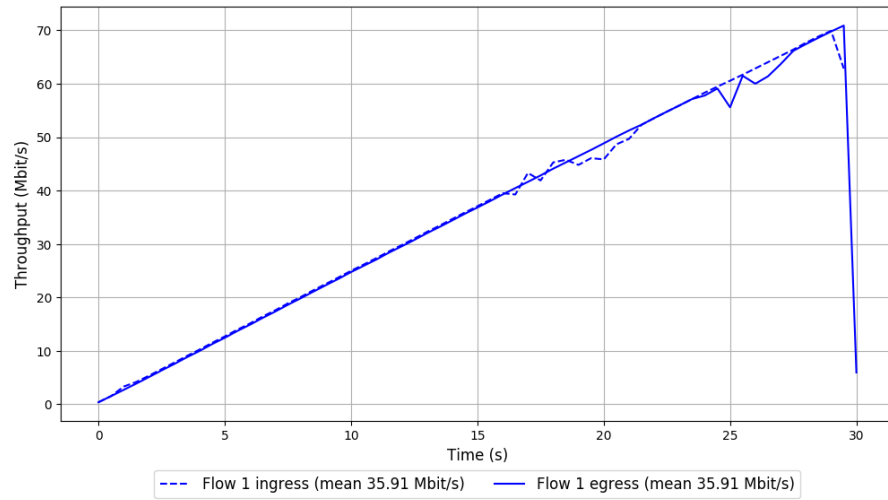
-- Flow 1:

Average throughput: 35.91 Mbit/s

95th percentile per-packet one-way delay: 52.763 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-17 16:21:42

End at: 2018-04-17 16:22:12

Below is generated by plot.py at 2018-04-17 17:59:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.00%

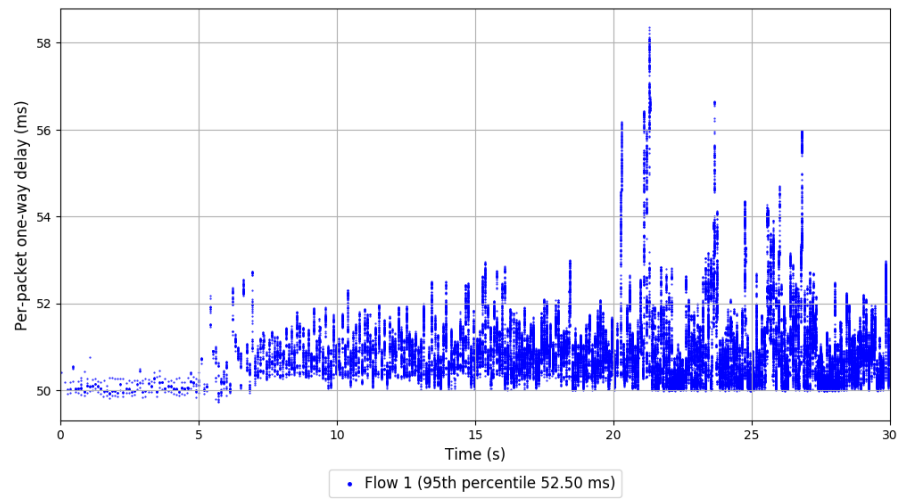
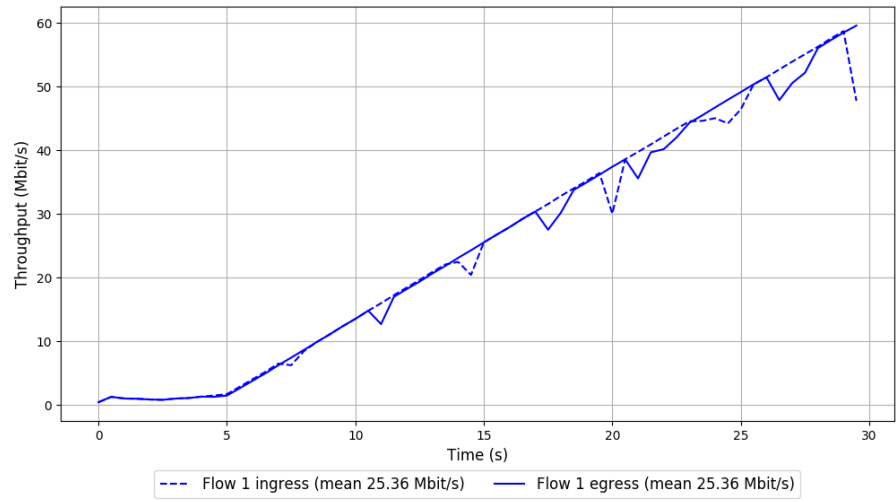
-- Flow 1:

Average throughput: 25.36 Mbit/s

95th percentile per-packet one-way delay: 52.497 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

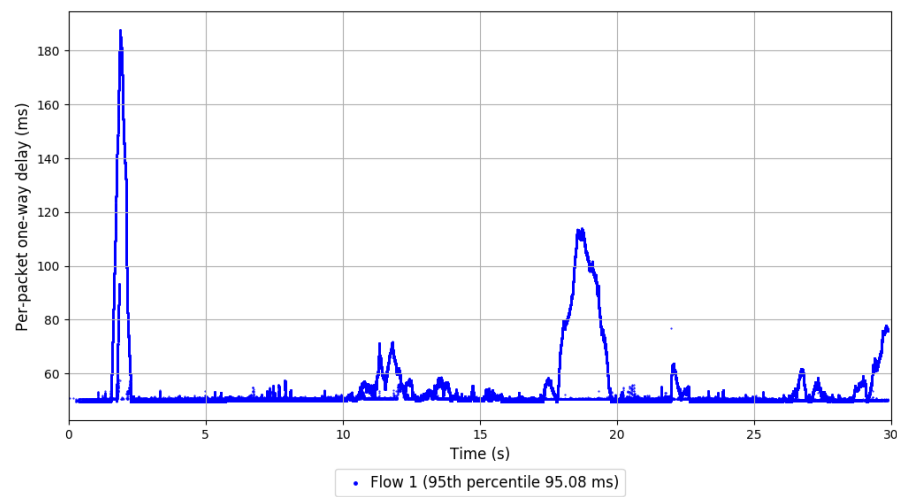
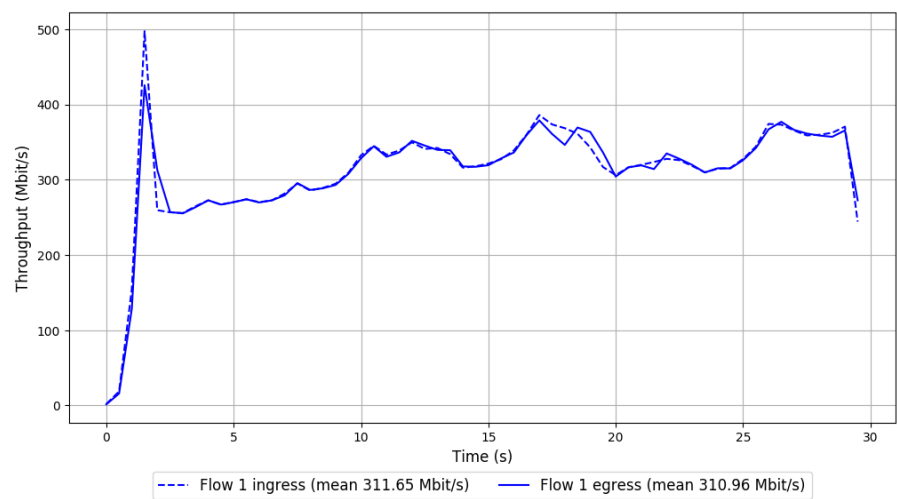


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-17 14:35:23
End at: 2018-04-17 14:35:53

# Below is generated by plot.py at 2018-04-17 18:02:59
# Datalink statistics
-- Total of 1 flow:
Average throughput: 310.96 Mbit/s
95th percentile per-packet one-way delay: 95.085 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 310.96 Mbit/s
95th percentile per-packet one-way delay: 95.085 ms
Loss rate: 0.22%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-17 14:47:51

End at: 2018-04-17 14:48:21

Below is generated by plot.py at 2018-04-17 18:03:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.63 Mbit/s

95th percentile per-packet one-way delay: 76.749 ms

Loss rate: 0.15%

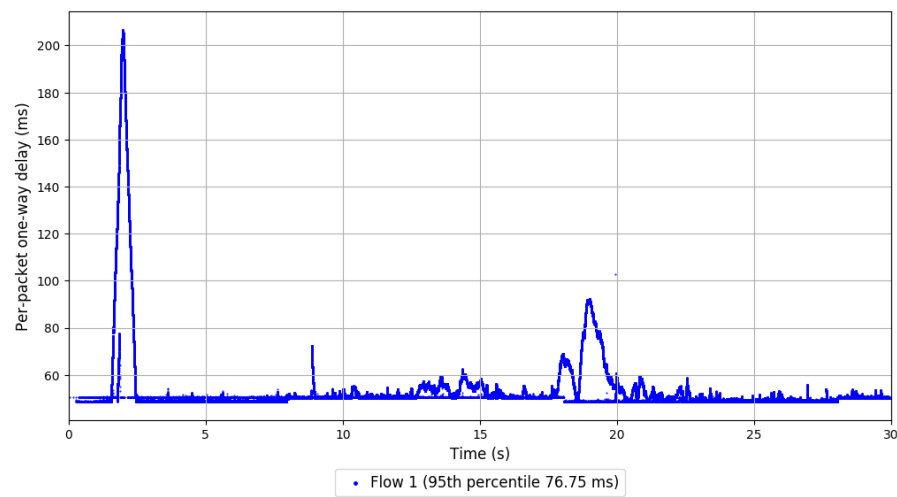
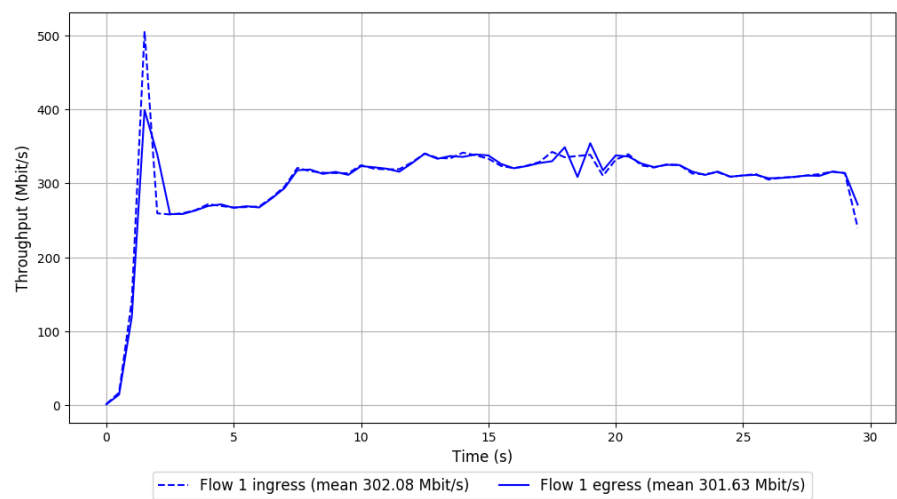
-- Flow 1:

Average throughput: 301.63 Mbit/s

95th percentile per-packet one-way delay: 76.749 ms

Loss rate: 0.15%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-17 15:00:44

End at: 2018-04-17 15:01:14

Below is generated by plot.py at 2018-04-17 18:03:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.07 Mbit/s

95th percentile per-packet one-way delay: 67.444 ms

Loss rate: 0.09%

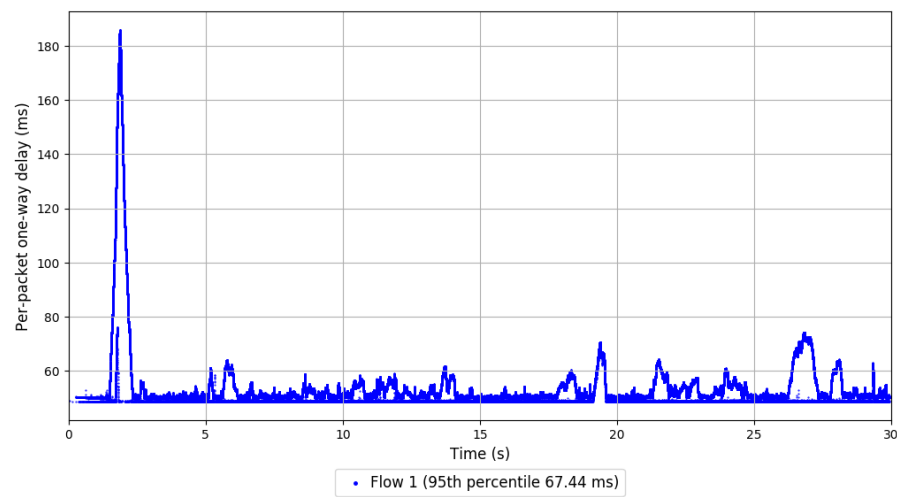
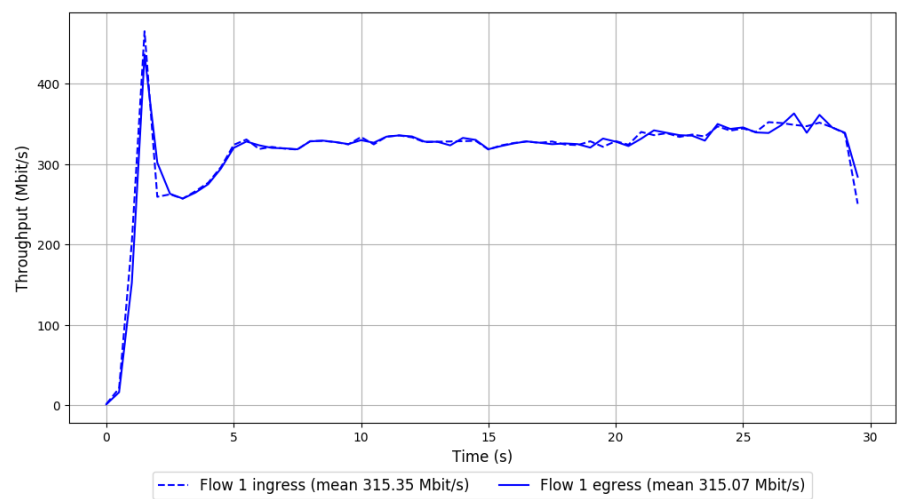
-- Flow 1:

Average throughput: 315.07 Mbit/s

95th percentile per-packet one-way delay: 67.444 ms

Loss rate: 0.09%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-17 15:13:37

End at: 2018-04-17 15:14:07

Below is generated by plot.py at 2018-04-17 18:03:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.87 Mbit/s

95th percentile per-packet one-way delay: 67.314 ms

Loss rate: 0.09%

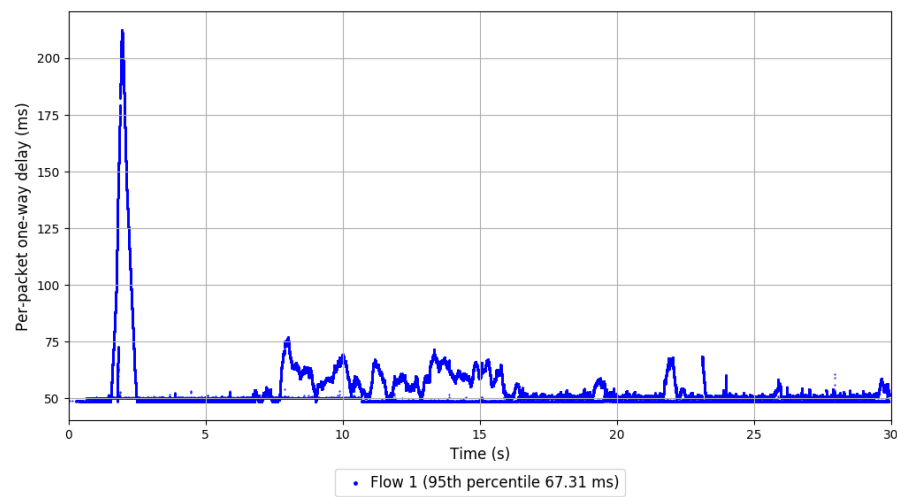
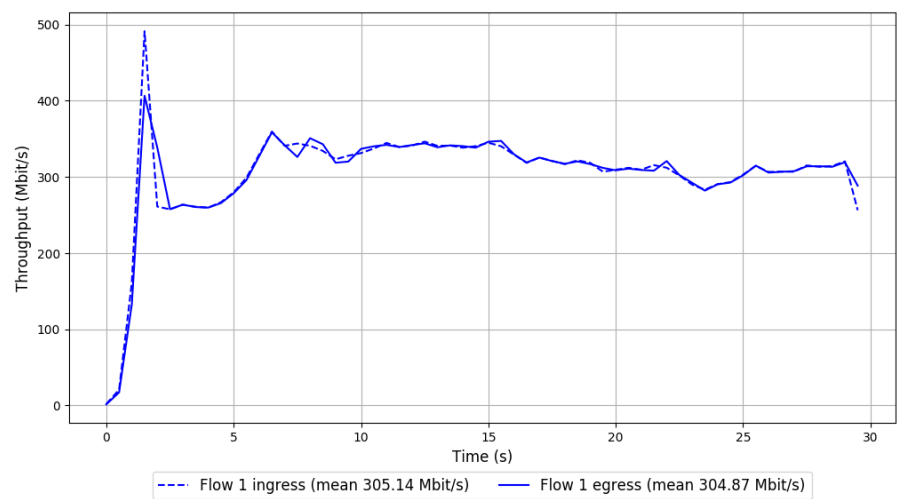
-- Flow 1:

Average throughput: 304.87 Mbit/s

95th percentile per-packet one-way delay: 67.314 ms

Loss rate: 0.09%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-17 15:26:12

End at: 2018-04-17 15:26:42

Below is generated by plot.py at 2018-04-17 18:03:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.64 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.07%

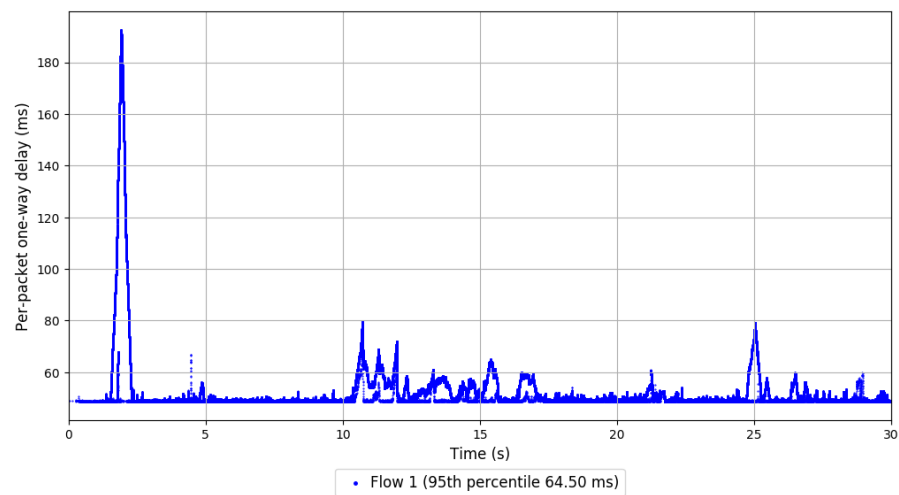
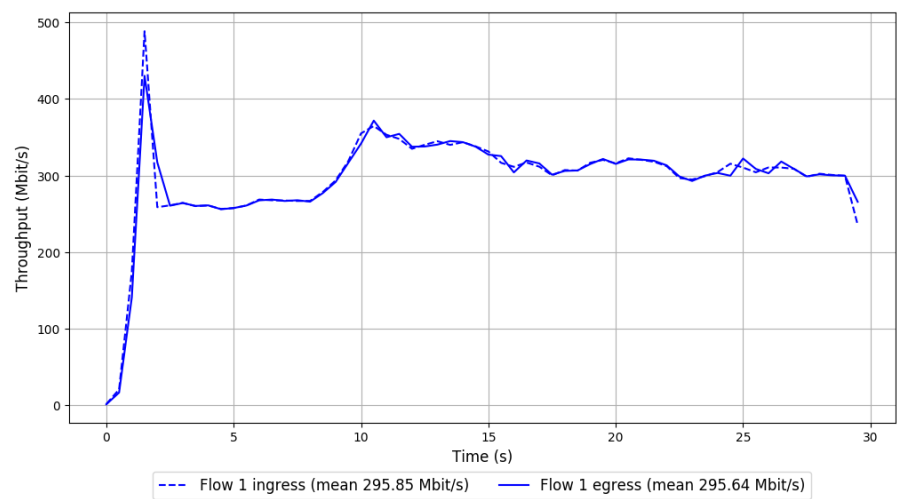
-- Flow 1:

Average throughput: 295.64 Mbit/s

95th percentile per-packet one-way delay: 64.498 ms

Loss rate: 0.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-17 15:38:42

End at: 2018-04-17 15:39:12

Below is generated by plot.py at 2018-04-17 18:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.00 Mbit/s

95th percentile per-packet one-way delay: 84.722 ms

Loss rate: 0.12%

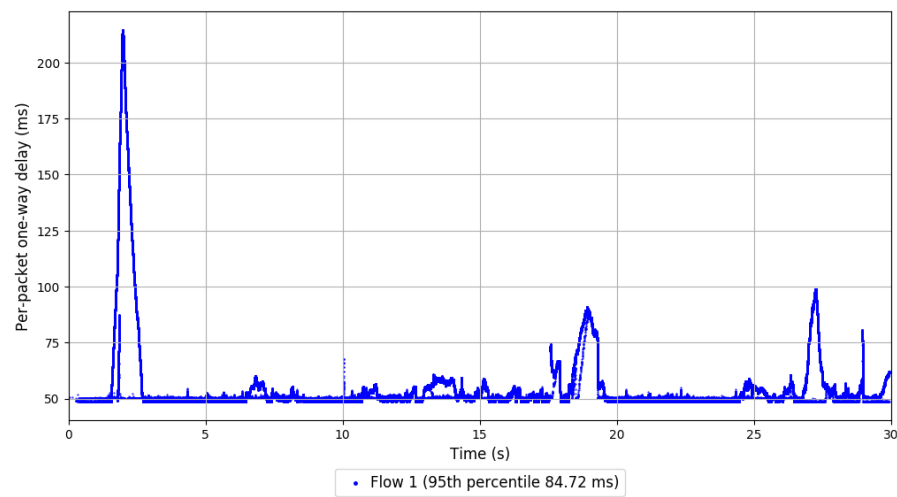
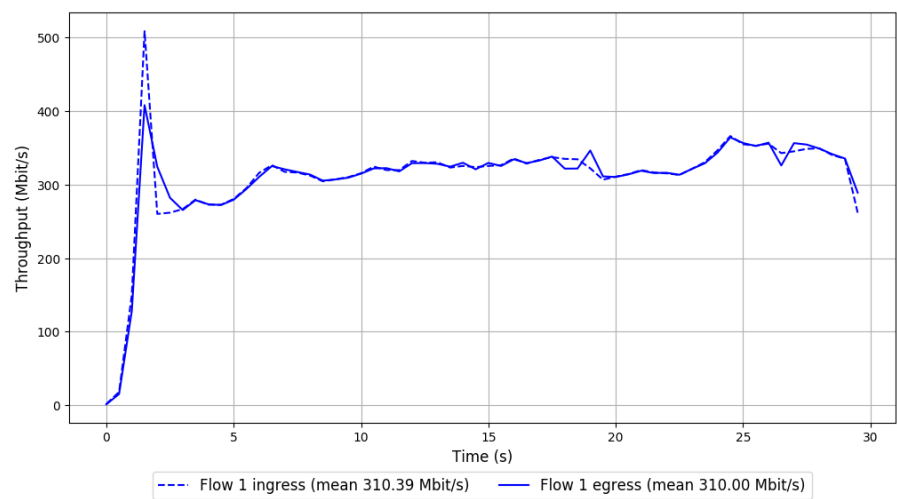
-- Flow 1:

Average throughput: 310.00 Mbit/s

95th percentile per-packet one-way delay: 84.722 ms

Loss rate: 0.12%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-17 15:51:12

End at: 2018-04-17 15:51:42

Below is generated by plot.py at 2018-04-17 18:04:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.19 Mbit/s

95th percentile per-packet one-way delay: 76.194 ms

Loss rate: 0.17%

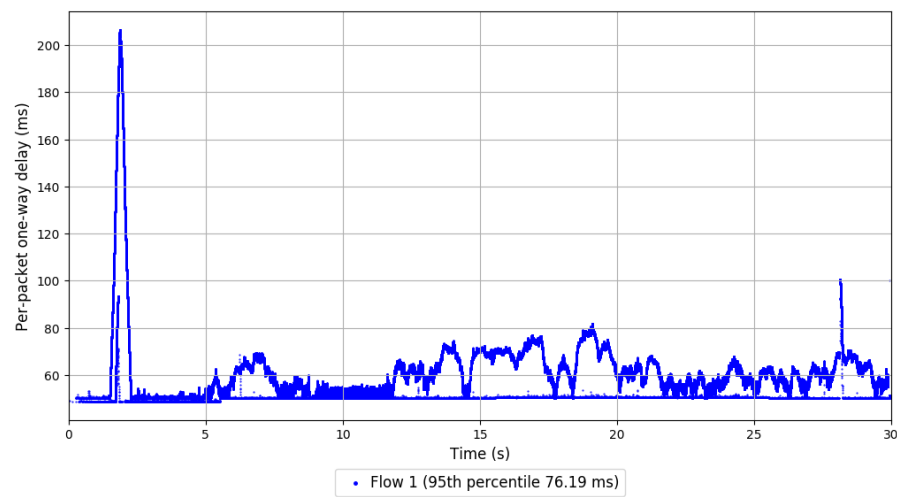
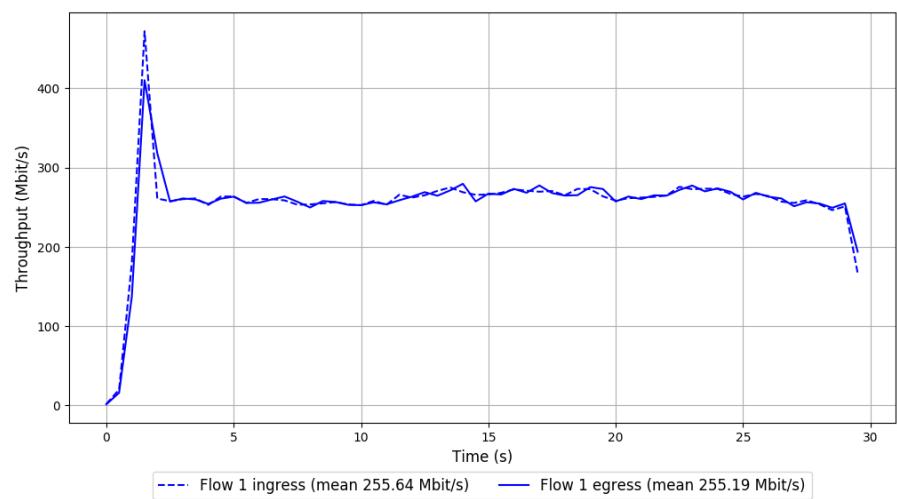
-- Flow 1:

Average throughput: 255.19 Mbit/s

95th percentile per-packet one-way delay: 76.194 ms

Loss rate: 0.17%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-17 16:03:51

End at: 2018-04-17 16:04:21

Below is generated by plot.py at 2018-04-17 18:05:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 309.66 Mbit/s

95th percentile per-packet one-way delay: 83.841 ms

Loss rate: 0.19%

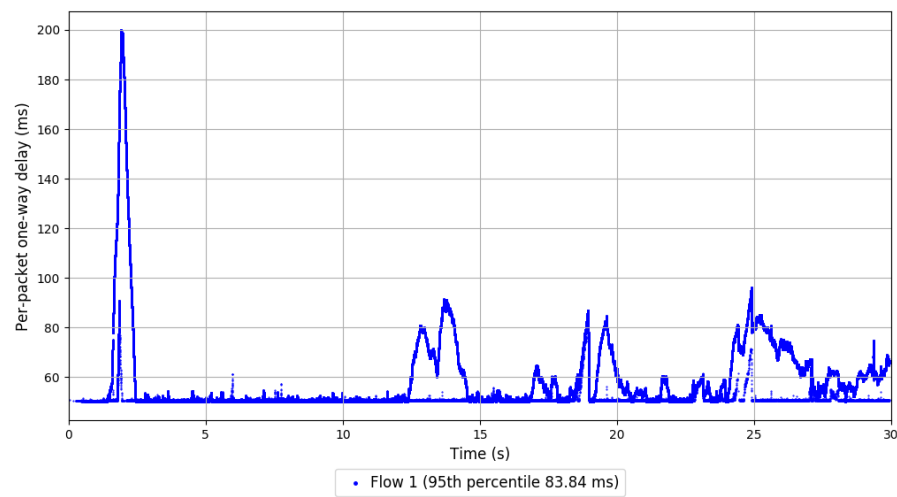
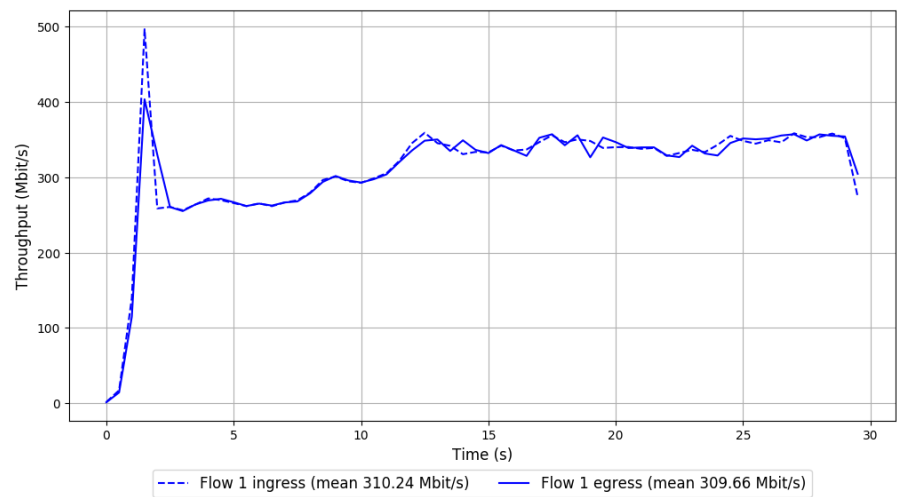
-- Flow 1:

Average throughput: 309.66 Mbit/s

95th percentile per-packet one-way delay: 83.841 ms

Loss rate: 0.19%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-17 16:16:26

End at: 2018-04-17 16:16:56

Below is generated by plot.py at 2018-04-17 18:07:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.92 Mbit/s

95th percentile per-packet one-way delay: 66.117 ms

Loss rate: 0.50%

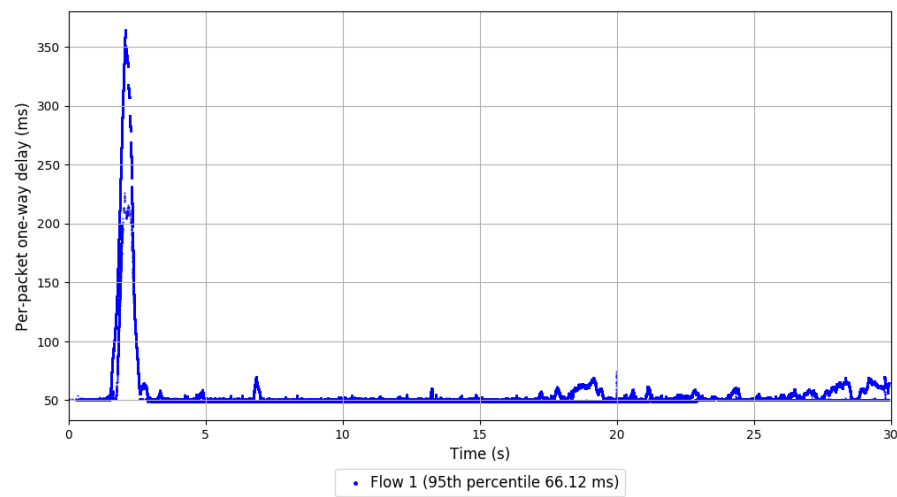
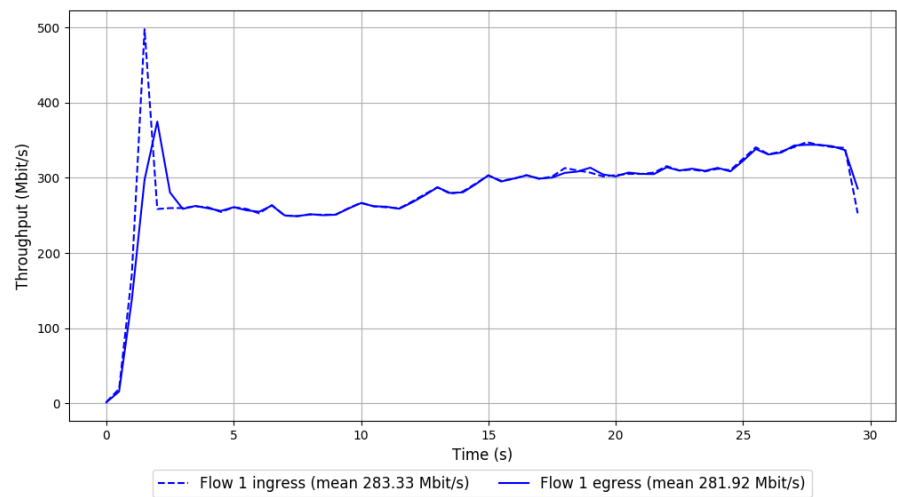
-- Flow 1:

Average throughput: 281.92 Mbit/s

95th percentile per-packet one-way delay: 66.117 ms

Loss rate: 0.50%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-17 16:28:59

End at: 2018-04-17 16:29:29

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 292.58 Mbit/s

95th percentile per-packet one-way delay: 62.479 ms

Loss rate: 0.20%

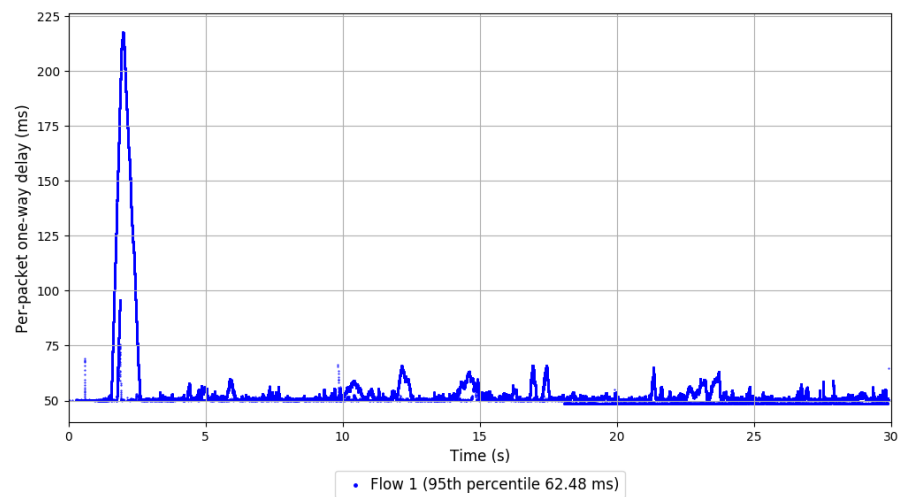
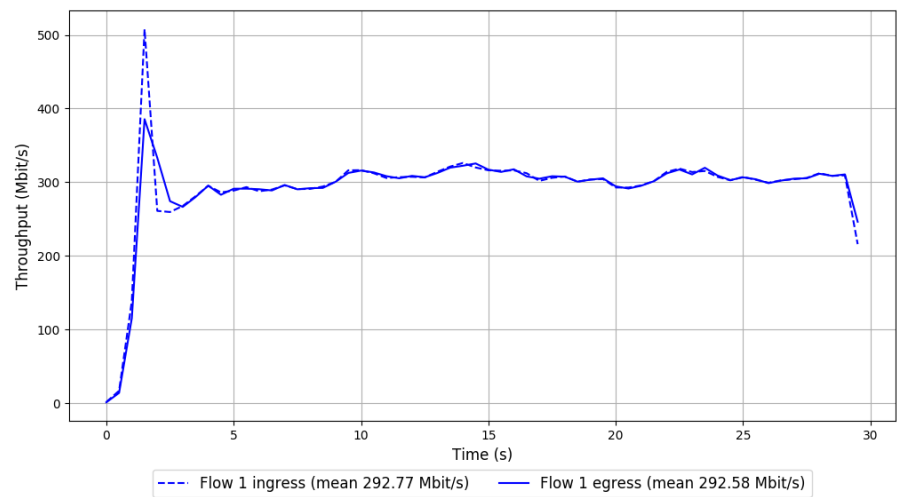
-- Flow 1:

Average throughput: 292.58 Mbit/s

95th percentile per-packet one-way delay: 62.479 ms

Loss rate: 0.20%

Run 10: Report of PCC-Allegro — Data Link

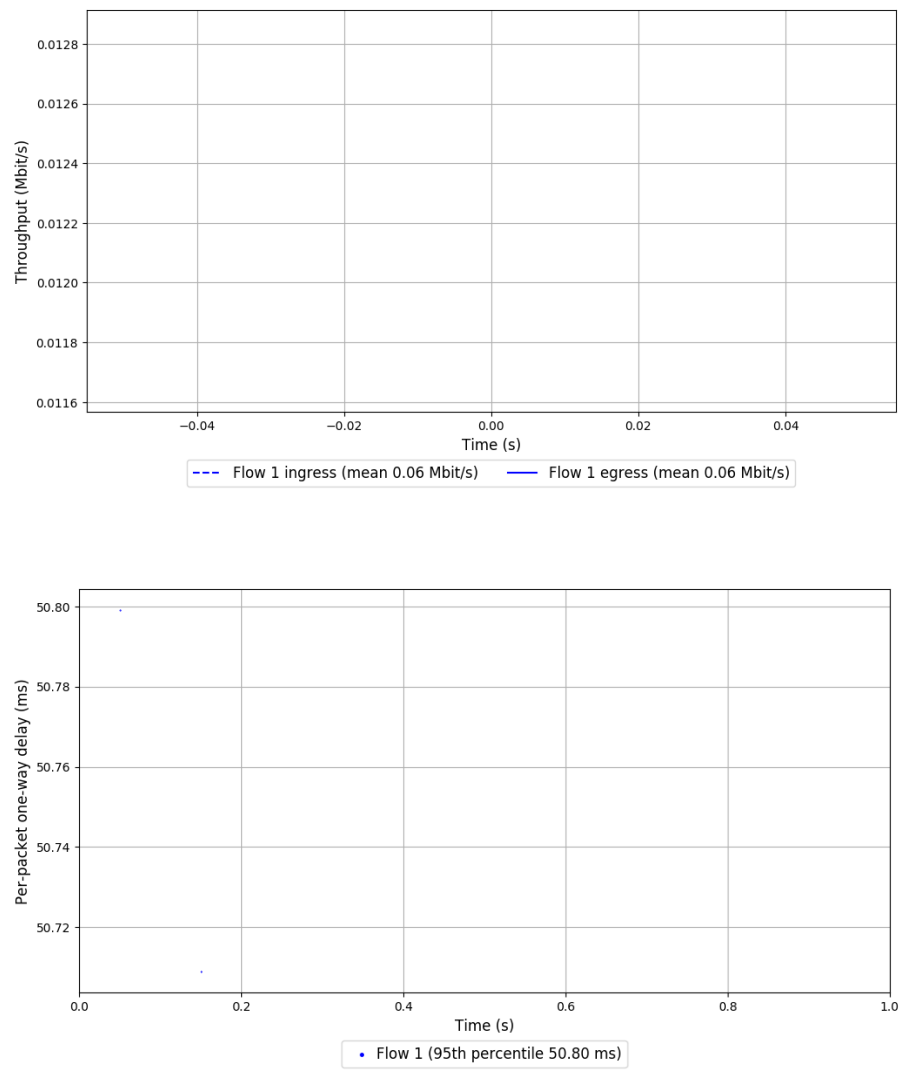


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-17 14:37:42

End at: 2018-04-17 14:38:12

Run 1: Report of QUIC Cubic — Data Link

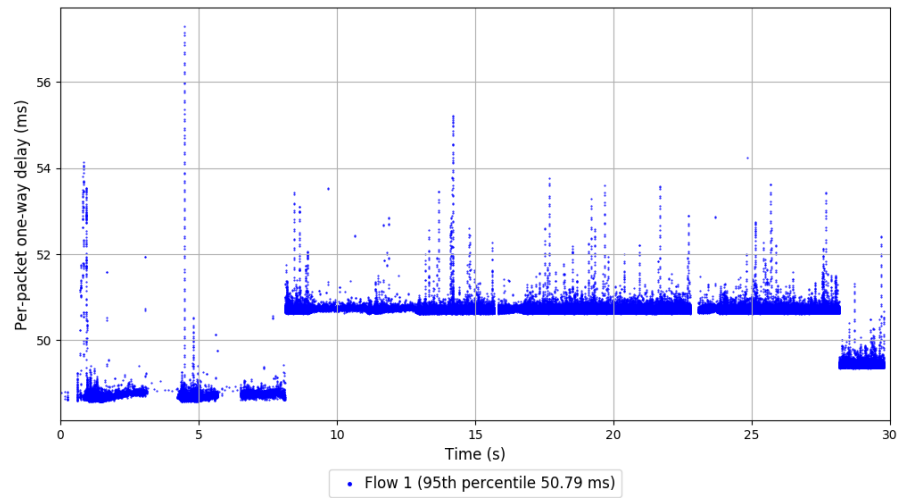
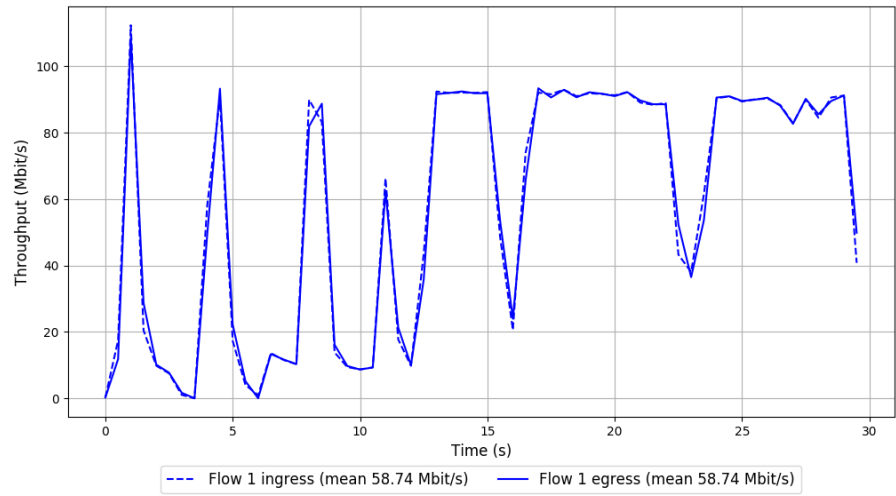


```
Run 2: Statistics of QUIC Cubic

Start at: 2018-04-17 14:50:11
End at: 2018-04-17 14:50:41

# Below is generated by plot.py at 2018-04-17 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 50.792 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 58.74 Mbit/s
95th percentile per-packet one-way delay: 50.792 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link

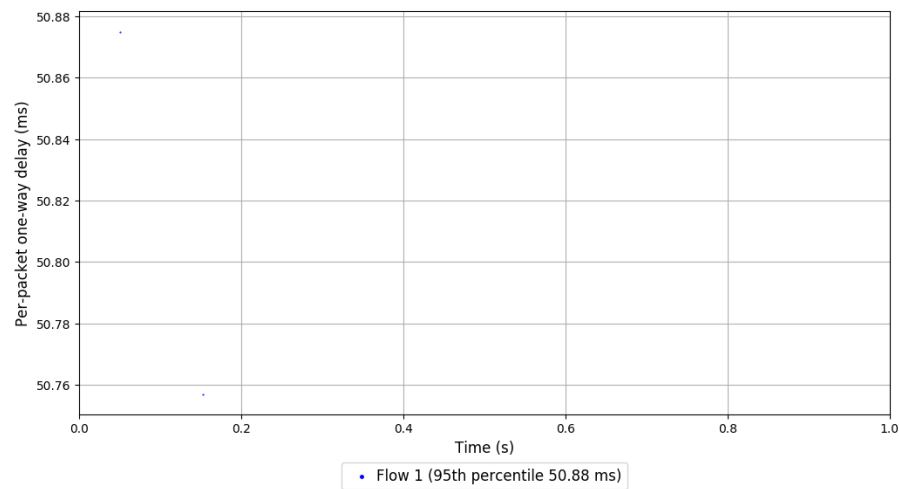
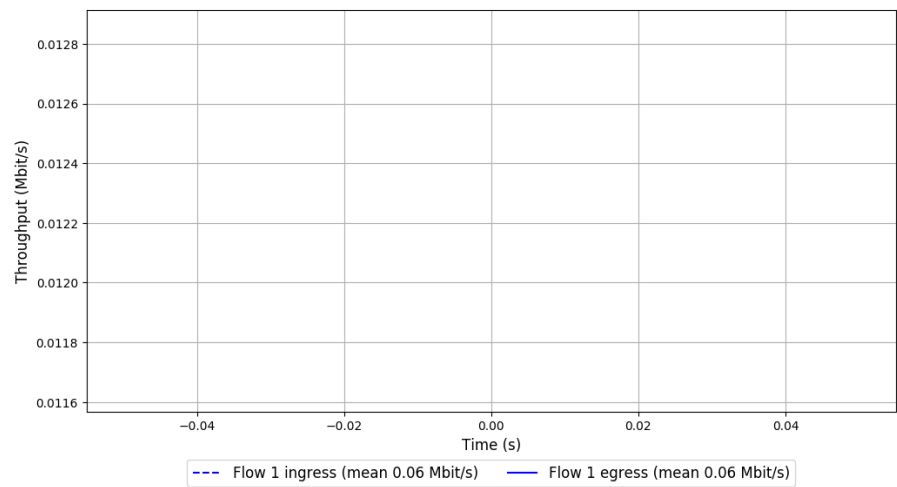


Run 3: Statistics of QUIC Cubic

Start at: 2018-04-17 15:03:03

End at: 2018-04-17 15:03:33

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-17 15:15:51

End at: 2018-04-17 15:16:21

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.00%

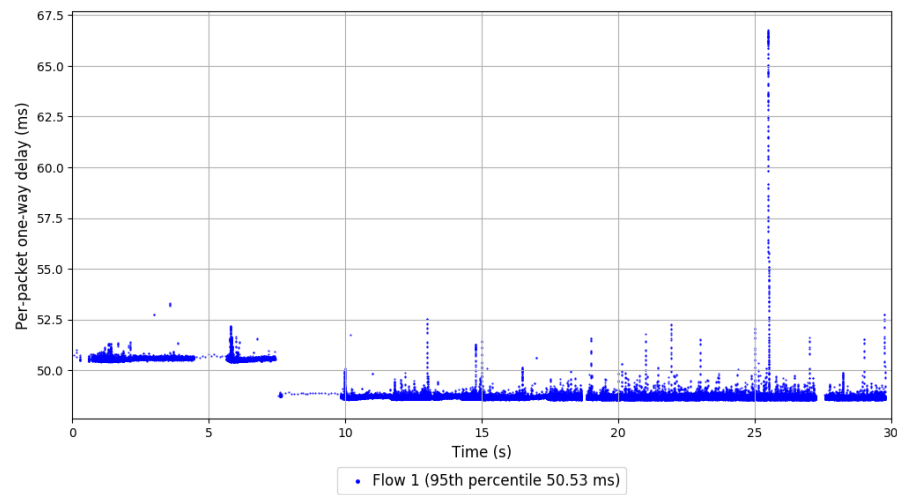
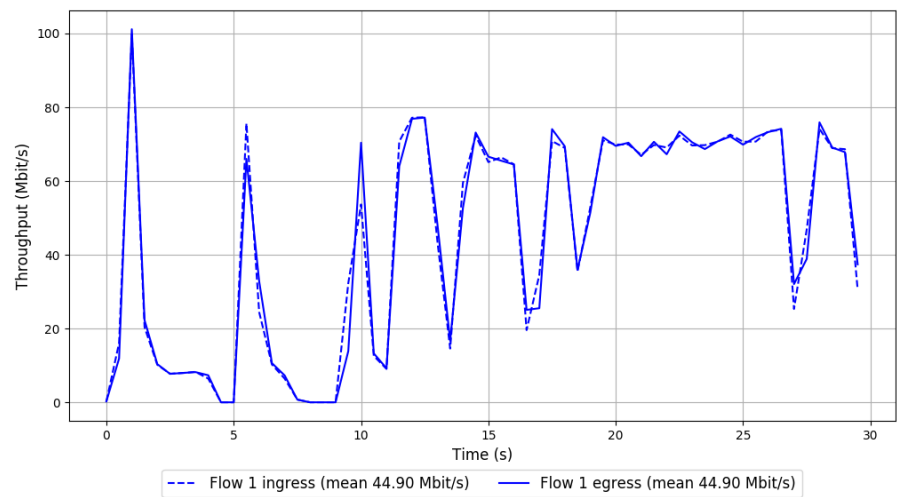
-- Flow 1:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 50.532 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-17 15:28:29

End at: 2018-04-17 15:28:59

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.18 Mbit/s

95th percentile per-packet one-way delay: 48.813 ms

Loss rate: 0.00%

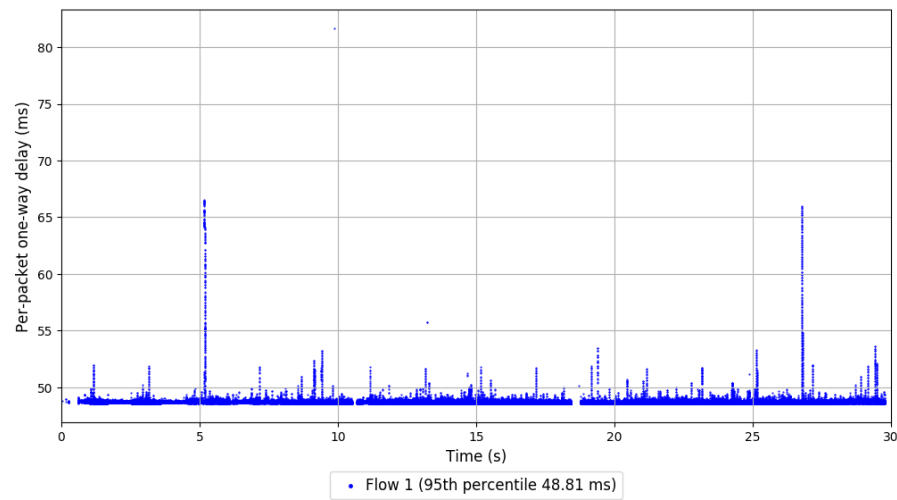
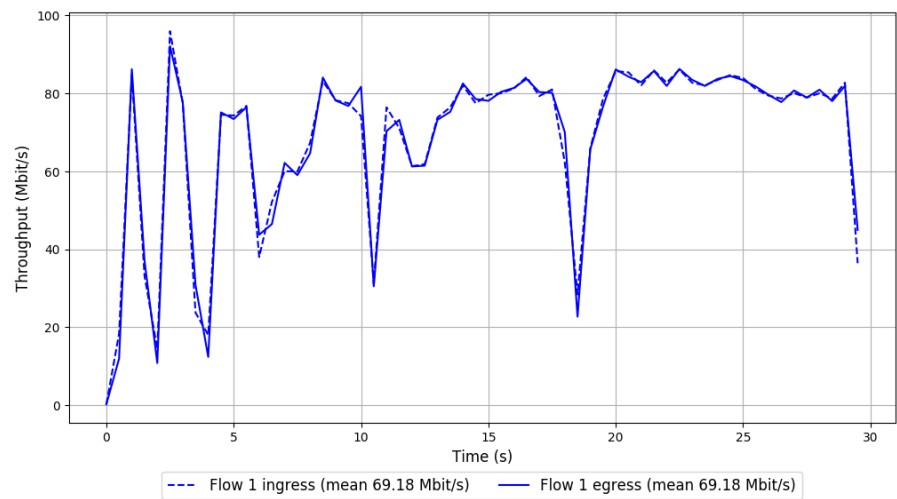
-- Flow 1:

Average throughput: 69.18 Mbit/s

95th percentile per-packet one-way delay: 48.813 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-17 15:41:00

End at: 2018-04-17 15:41:30

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 50.333 ms

Loss rate: 0.00%

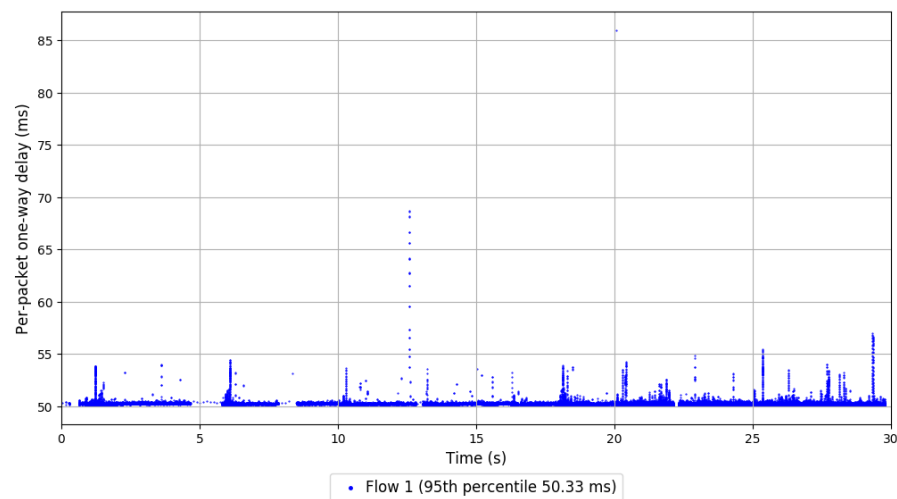
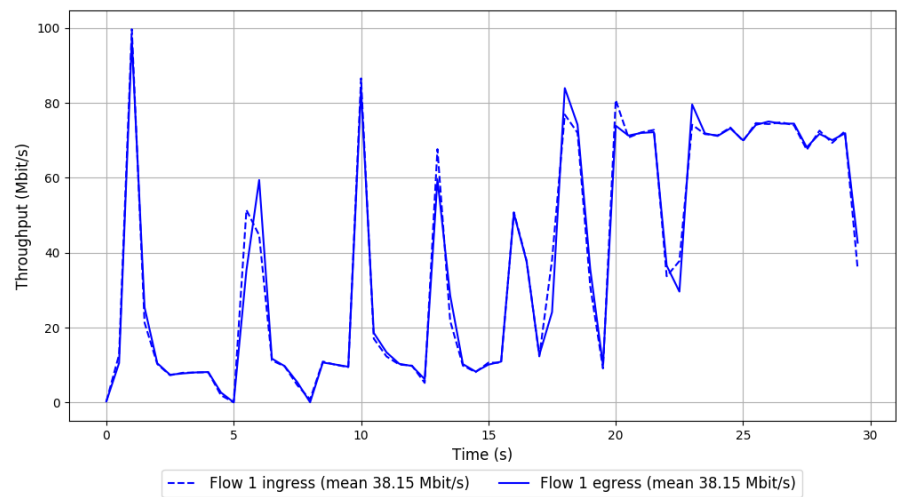
-- Flow 1:

Average throughput: 38.15 Mbit/s

95th percentile per-packet one-way delay: 50.333 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-17 15:53:18

End at: 2018-04-17 15:53:48

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.00%

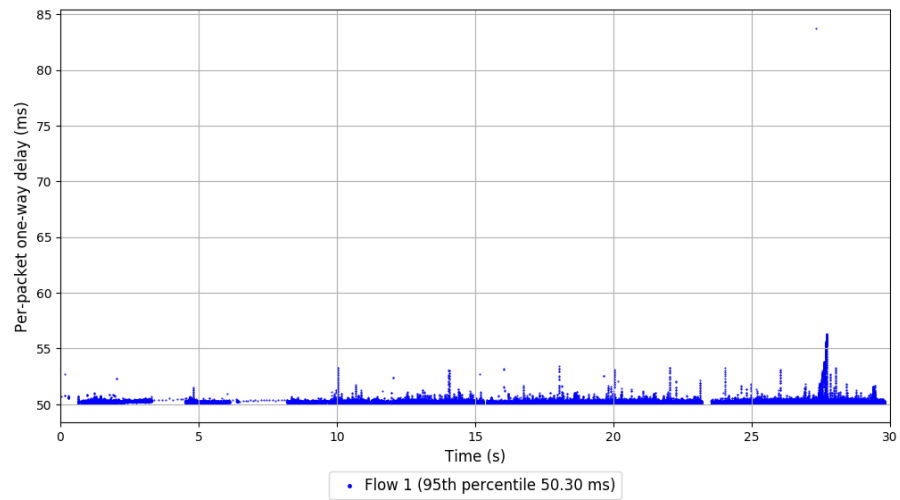
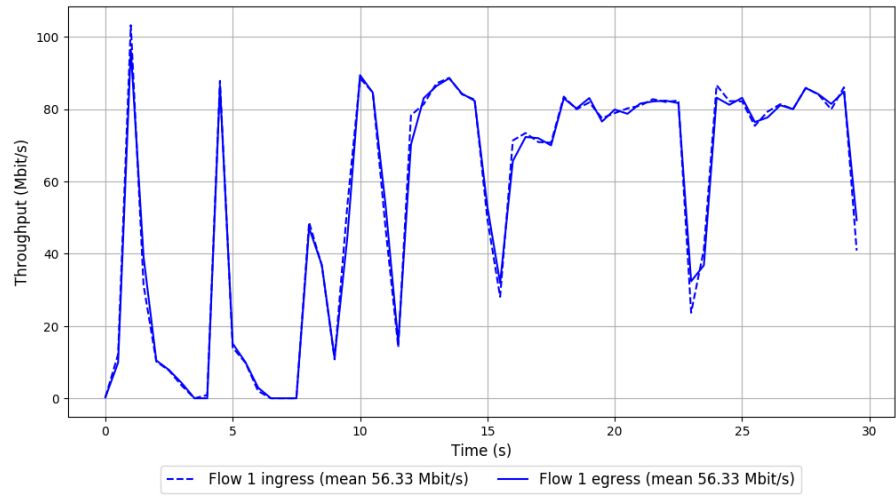
-- Flow 1:

Average throughput: 56.33 Mbit/s

95th percentile per-packet one-way delay: 50.302 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-17 16:06:09

End at: 2018-04-17 16:06:39

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.67 Mbit/s

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

Loss rate: 0.01%

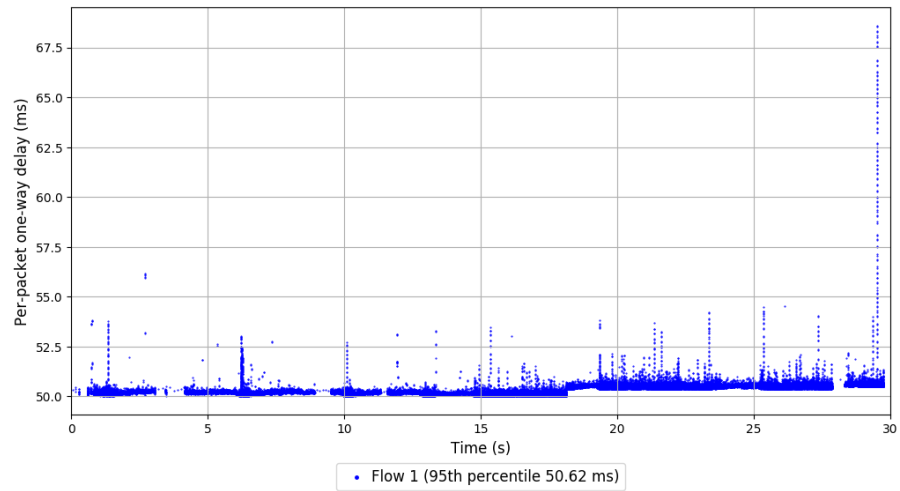
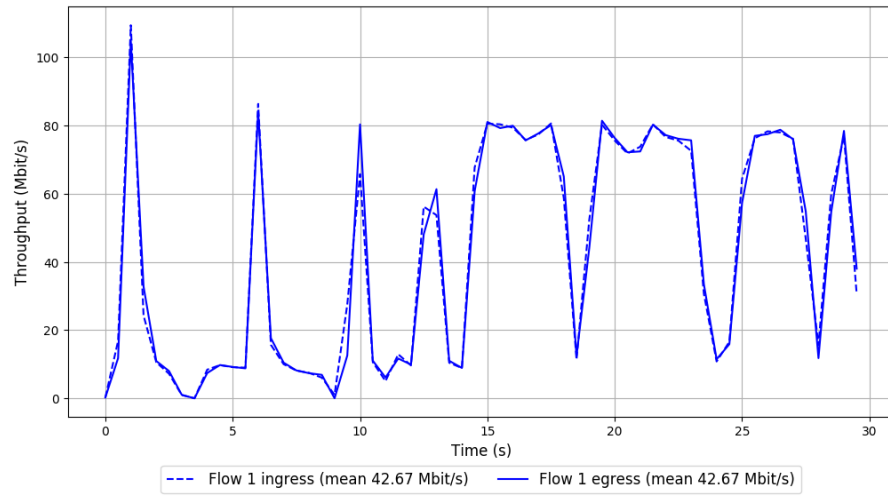
-- Flow 1:

Average throughput: 42.67 Mbit/s

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

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-17 16:18:43

End at: 2018-04-17 16:19:13

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.41 Mbit/s

95th percentile per-packet one-way delay: 50.188 ms

Loss rate: 0.00%

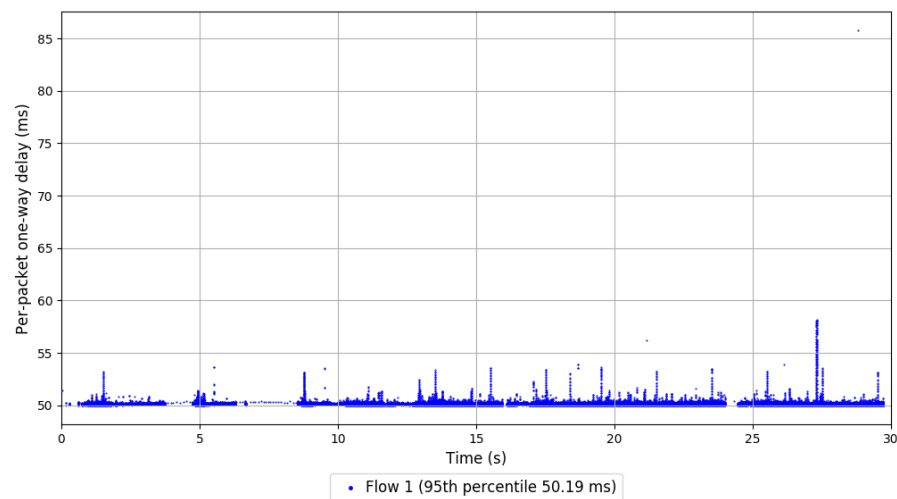
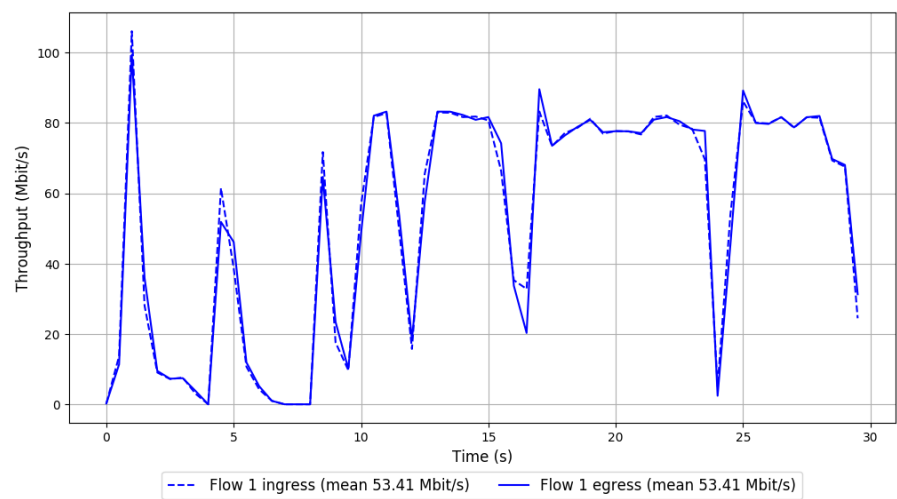
-- Flow 1:

Average throughput: 53.41 Mbit/s

95th percentile per-packet one-way delay: 50.188 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

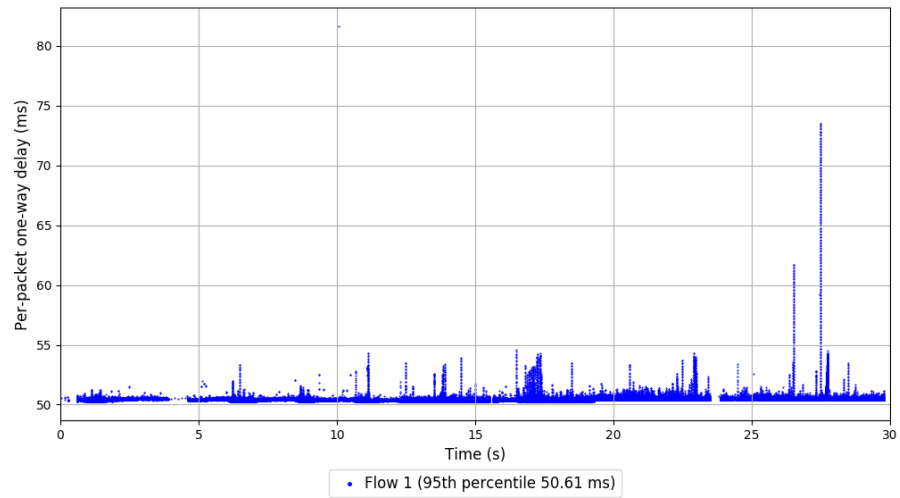
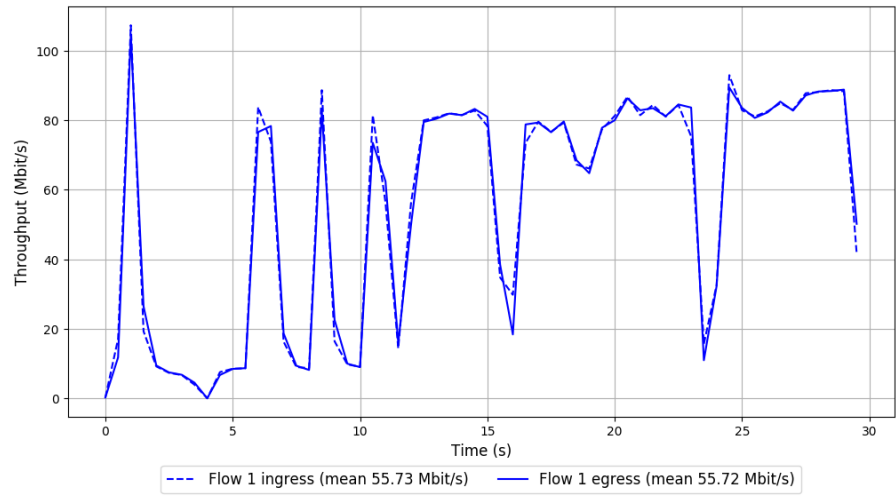


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-04-17 16:31:18
End at: 2018-04-17 16:31:48

# Below is generated by plot.py at 2018-04-17 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 55.72 Mbit/s
95th percentile per-packet one-way delay: 50.610 ms
Loss rate: 0.01%
```

Run 10: Report of QUIC Cubic — Data Link

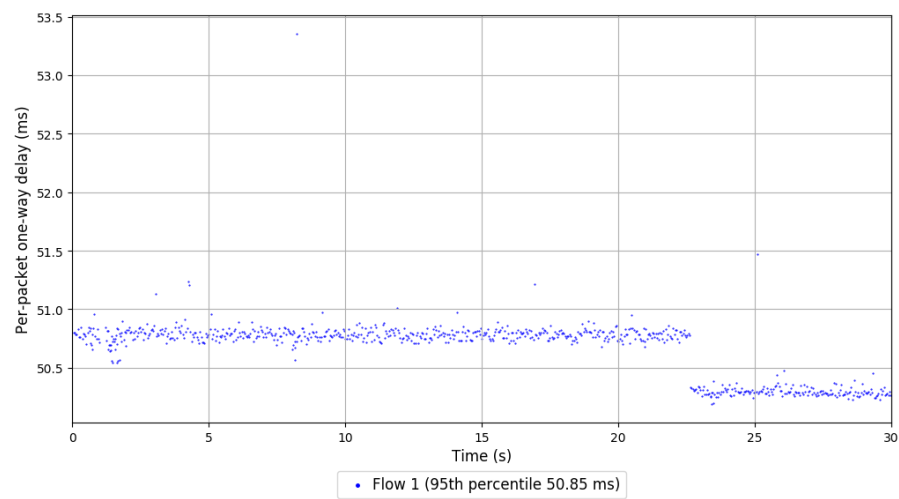
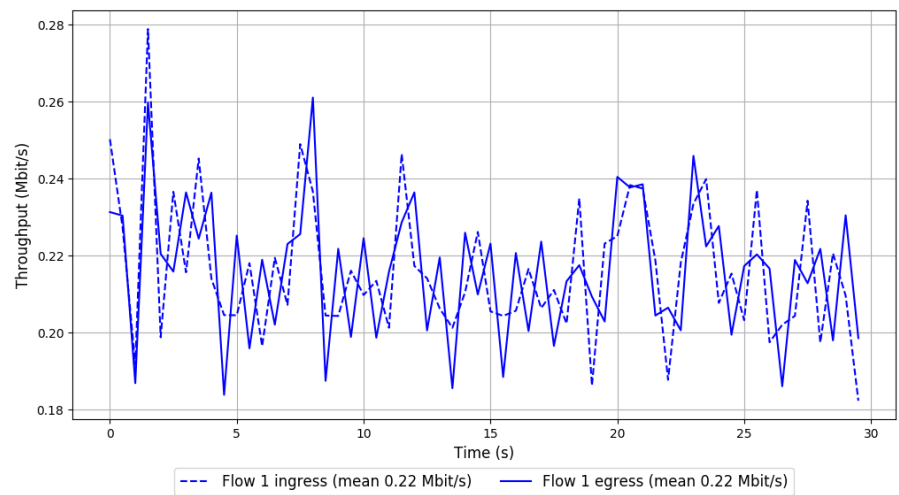


```
Run 1: Statistics of SCReAM

Start at: 2018-04-17 14:30:16
End at: 2018-04-17 14:30:46

# Below is generated by plot.py at 2018-04-17 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.852 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

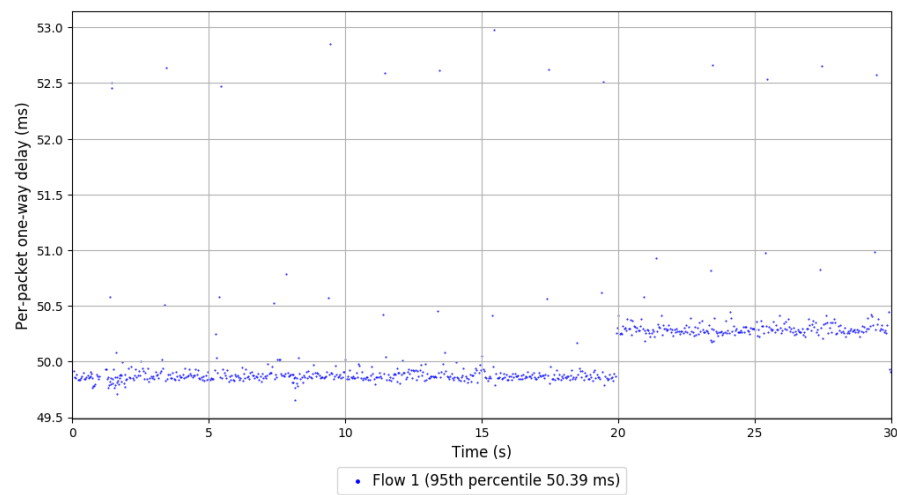
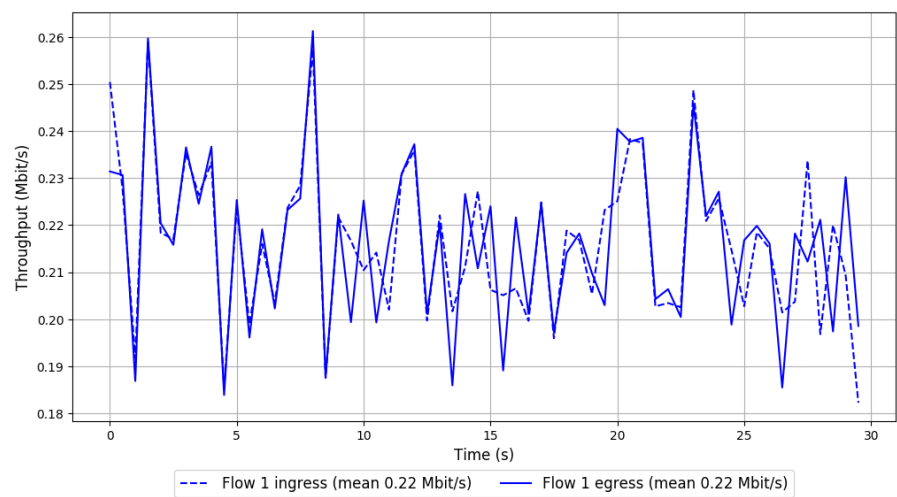


```
Run 2: Statistics of SCReAM

Start at: 2018-04-17 14:42:49
End at: 2018-04-17 14:43:19

# Below is generated by plot.py at 2018-04-17 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.393 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-17 14:55:23

End at: 2018-04-17 14:55:53

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.679 ms

Loss rate: 0.00%

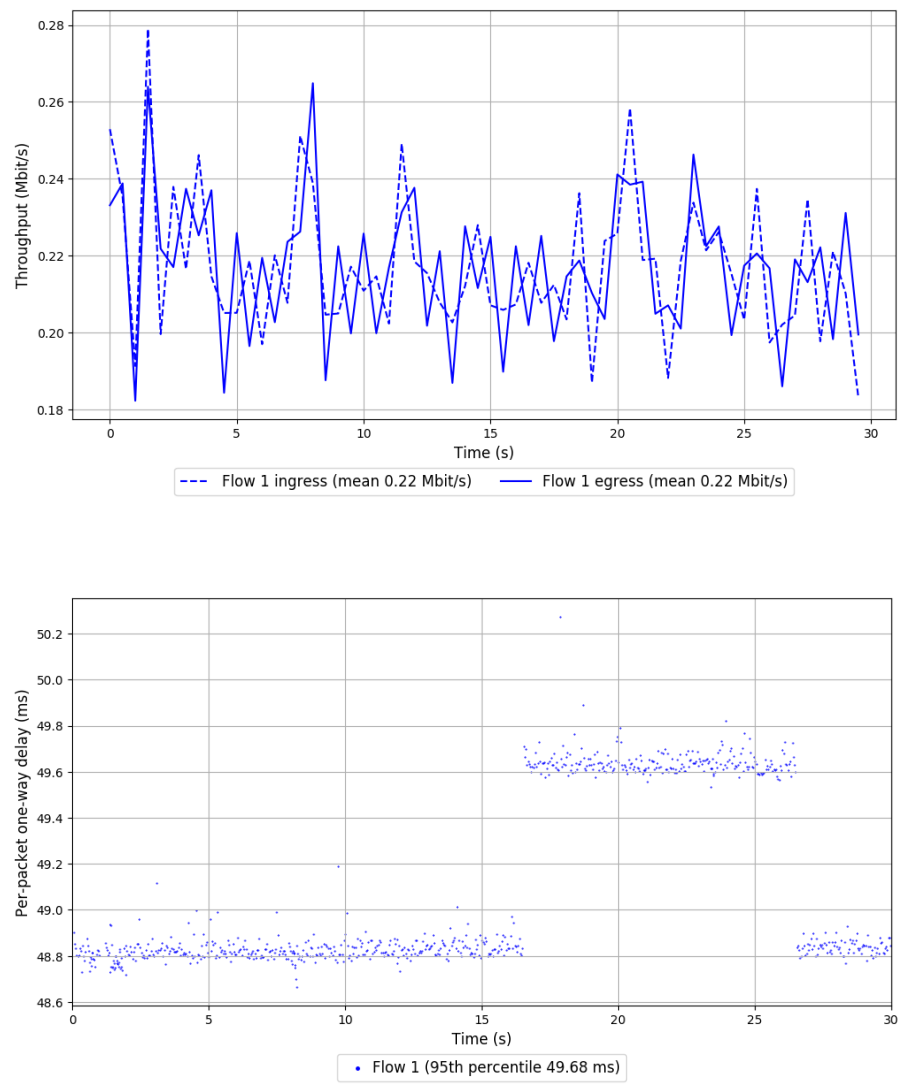
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 49.679 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

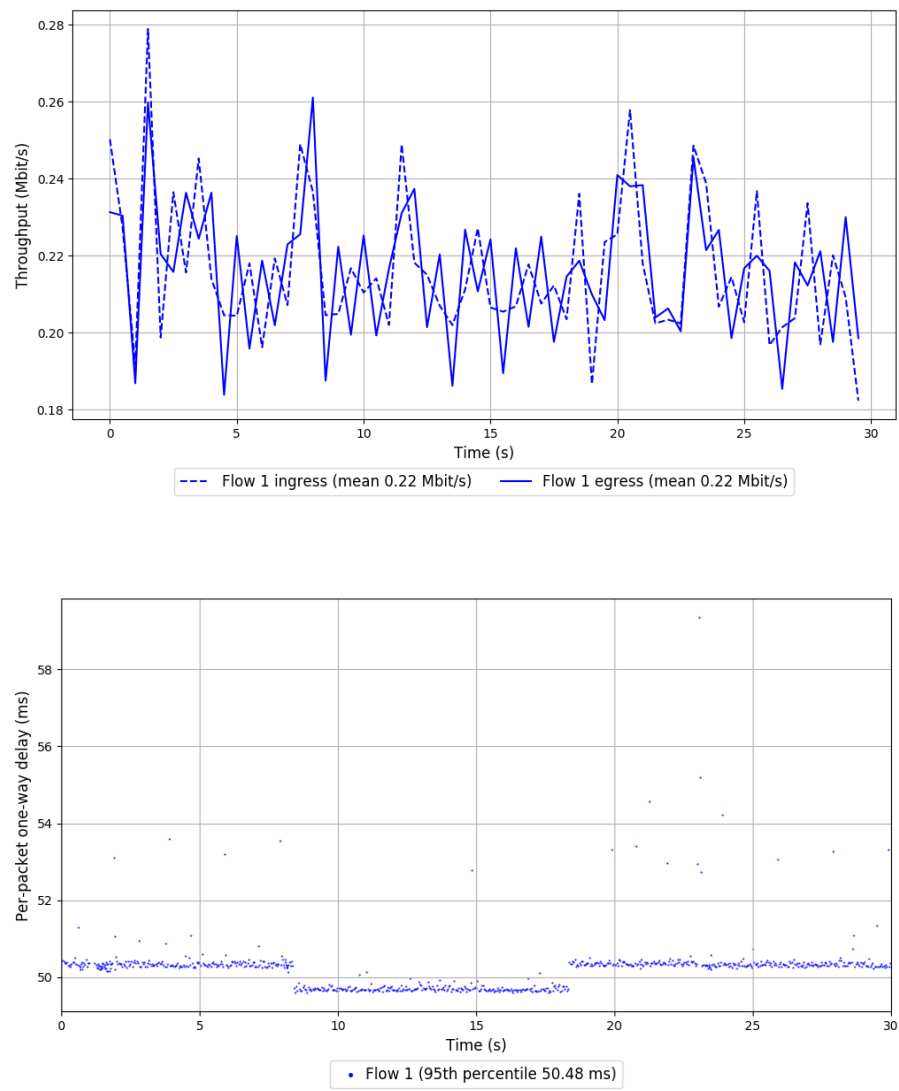


```
Run 4: Statistics of SCReAM

Start at: 2018-04-17 15:08:11
End at: 2018-04-17 15:08:41

# Below is generated by plot.py at 2018-04-17 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.478 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-17 15:20:59

End at: 2018-04-17 15:21:29

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

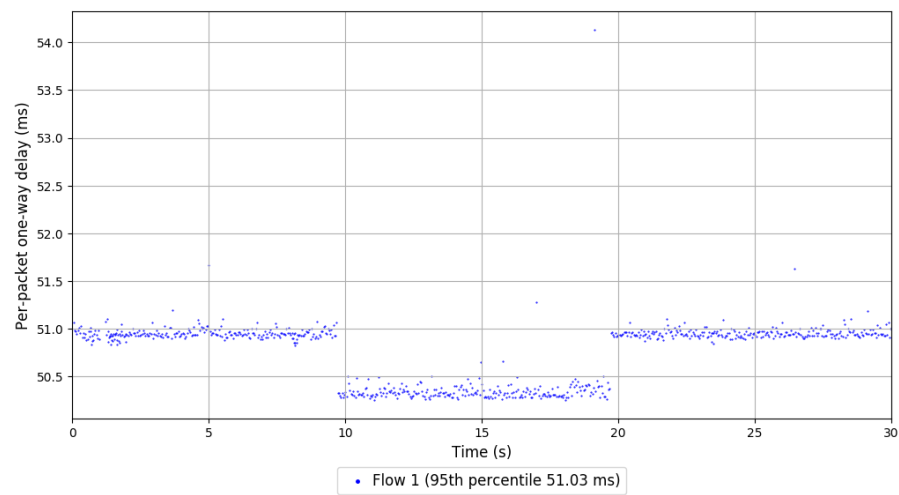
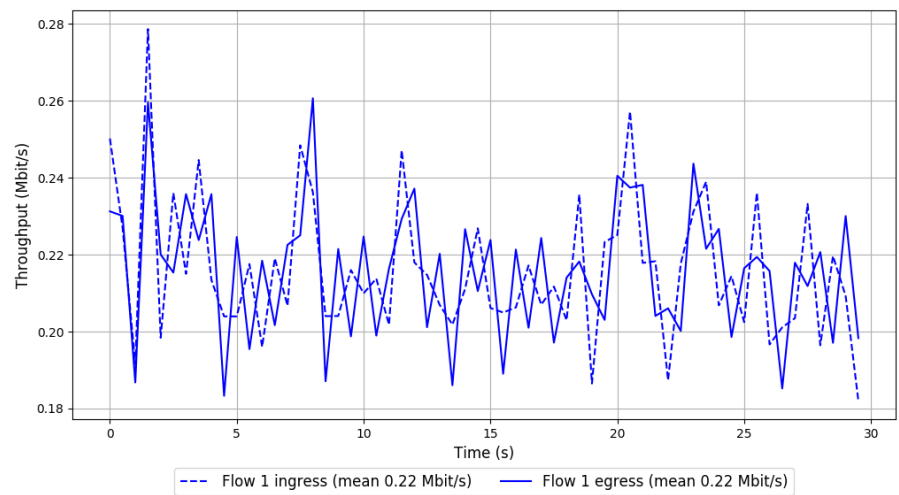
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-17 15:33:40

End at: 2018-04-17 15:34:10

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

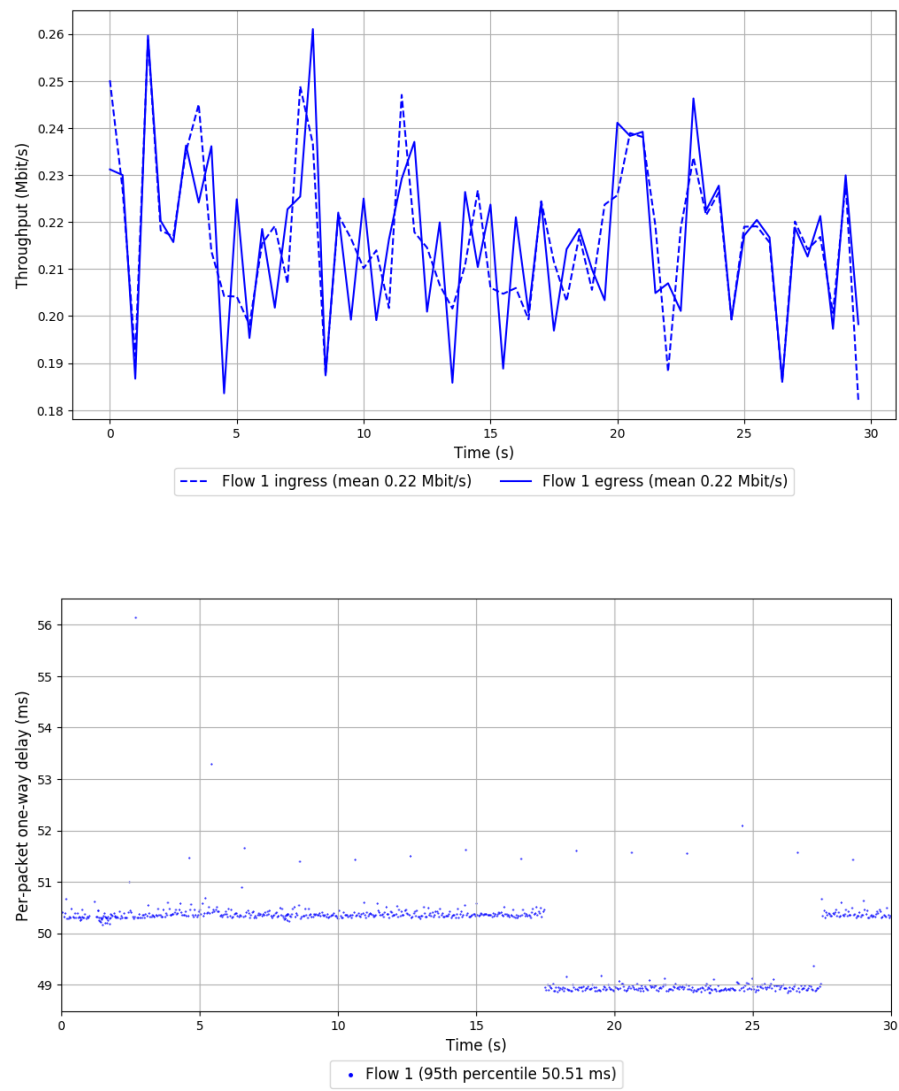
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.513 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-17 15:46:08

End at: 2018-04-17 15:46:38

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.00%

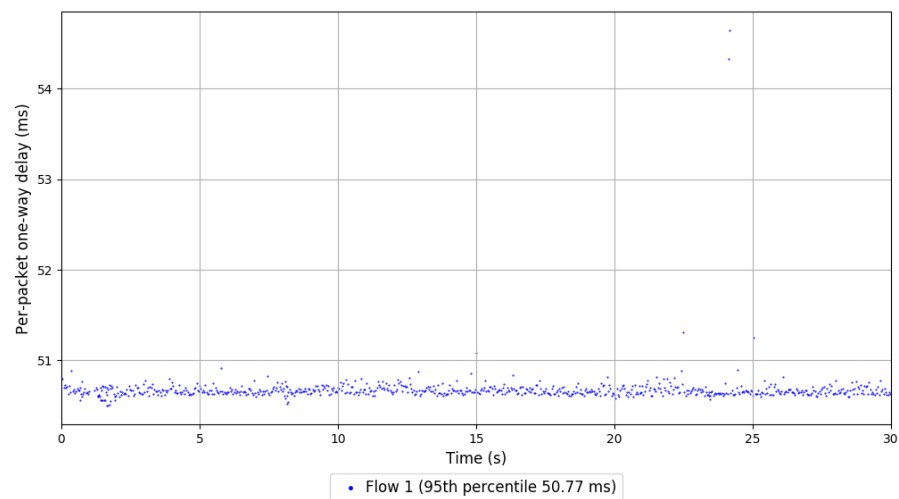
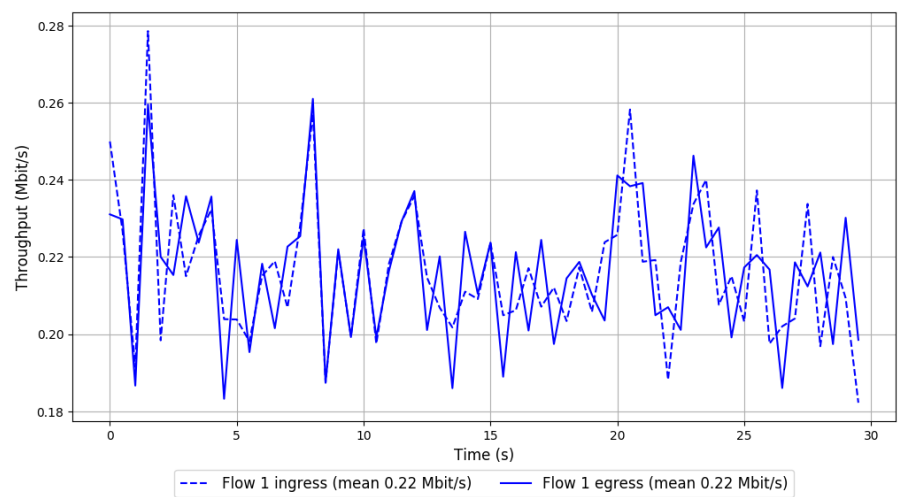
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.765 ms

Loss rate: 0.00%

Run 7: Report of SCReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-17 15:58:28

End at: 2018-04-17 15:58:59

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.00%

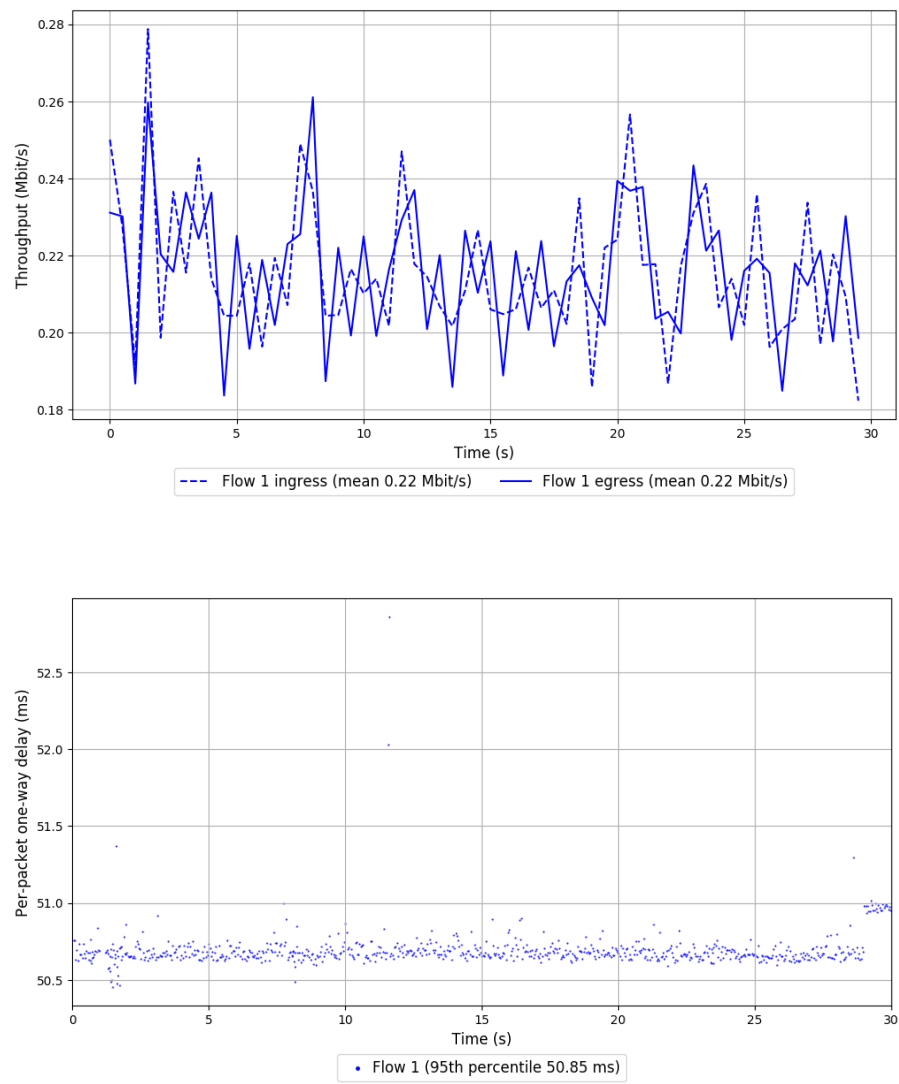
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.852 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-17 16:11:16

End at: 2018-04-17 16:11:46

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.005 ms

Loss rate: 0.00%

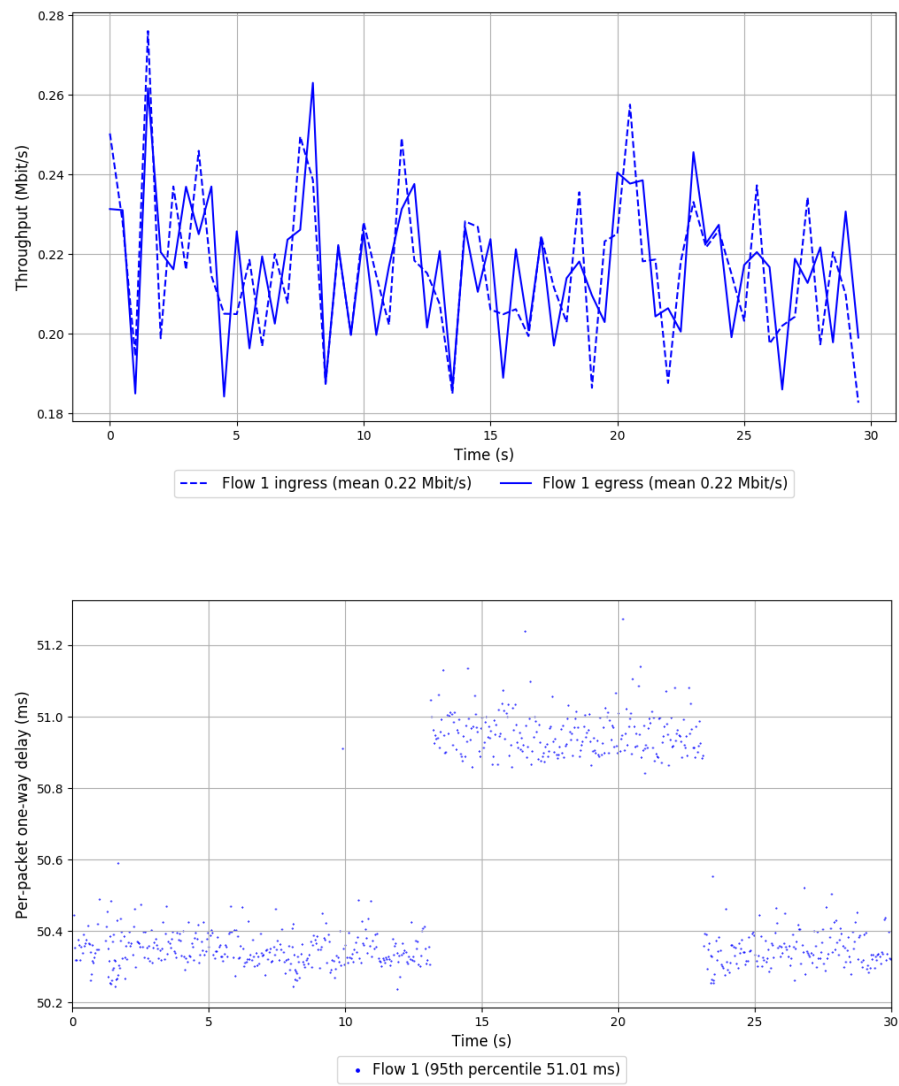
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.005 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-17 16:23:51

End at: 2018-04-17 16:24:21

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.591 ms

Loss rate: 0.00%

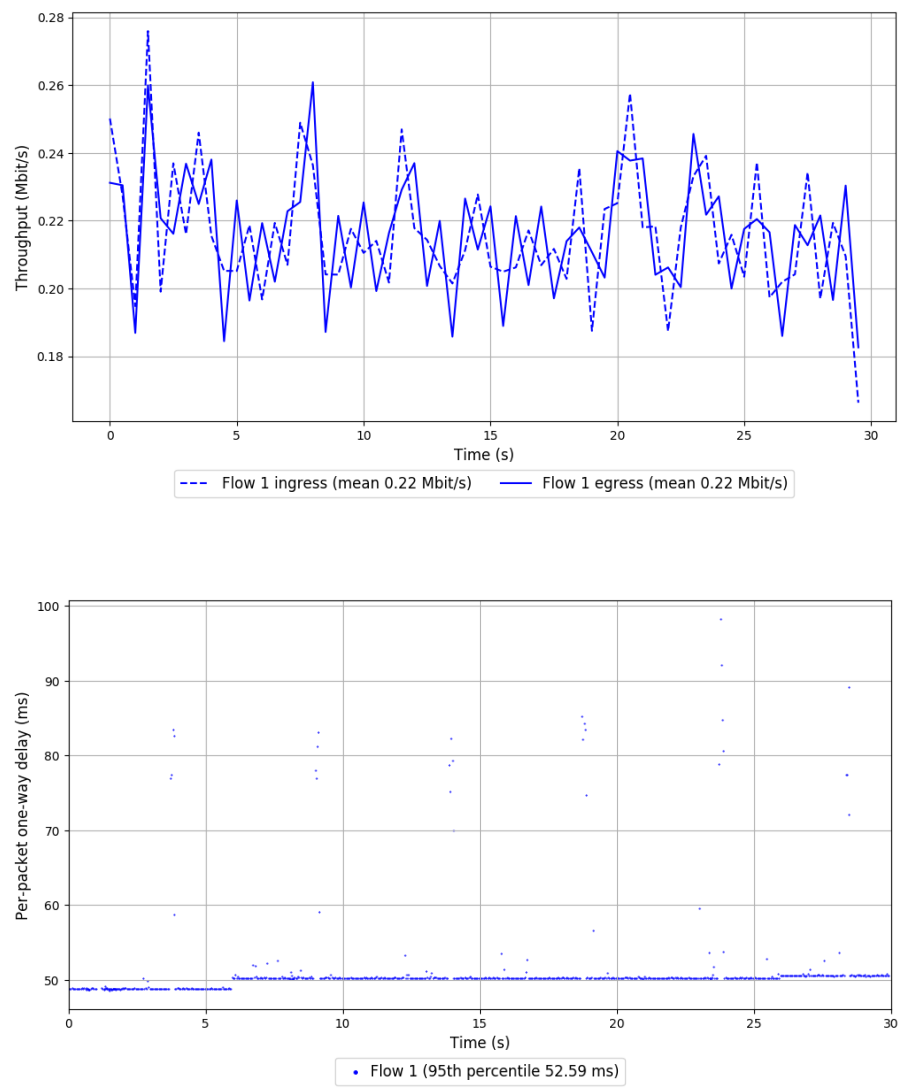
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 52.591 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

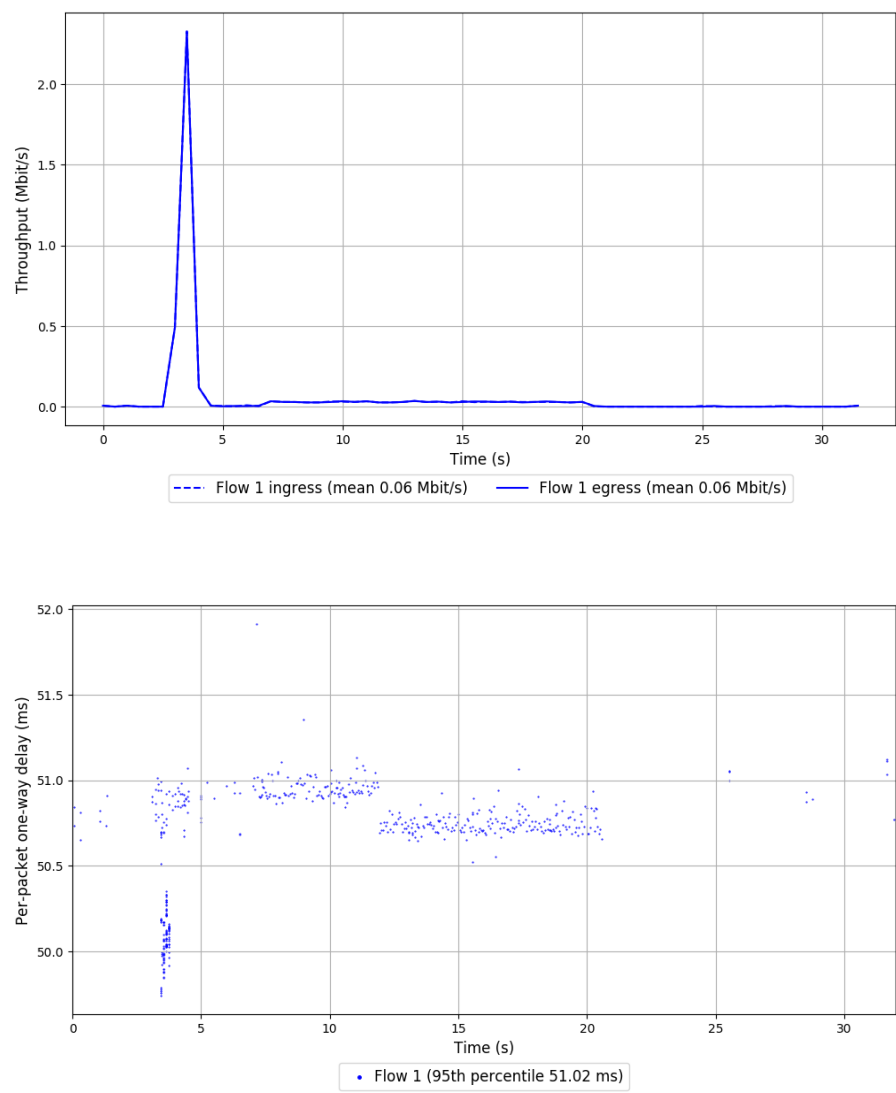


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-17 14:38:18
End at: 2018-04-17 14:38:48

# Below is generated by plot.py at 2018-04-17 18:08:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 51.016 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-17 14:50:50

End at: 2018-04-17 14:51:20

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.997 ms

Loss rate: 0.00%

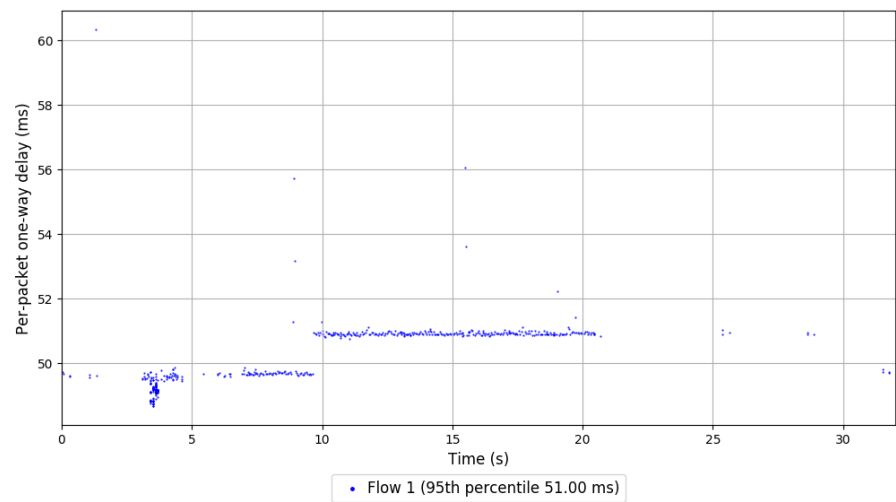
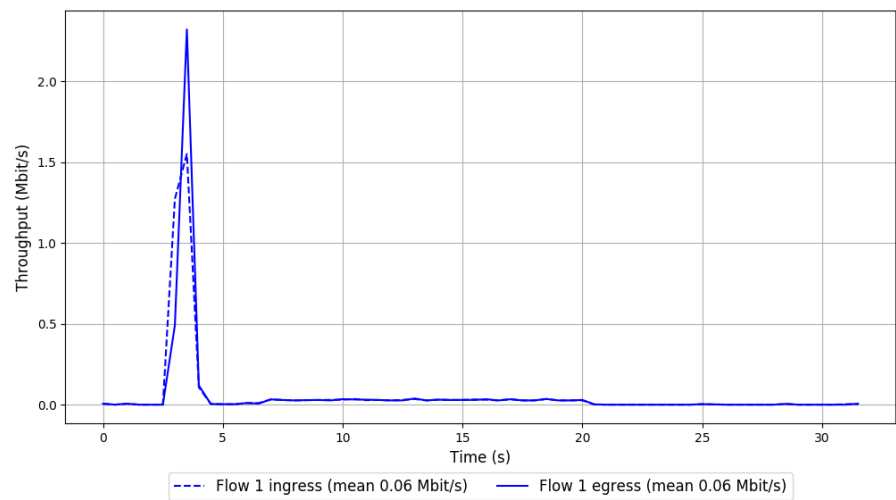
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.997 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-17 15:03:40

End at: 2018-04-17 15:04:10

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 49.854 ms

Loss rate: 0.00%

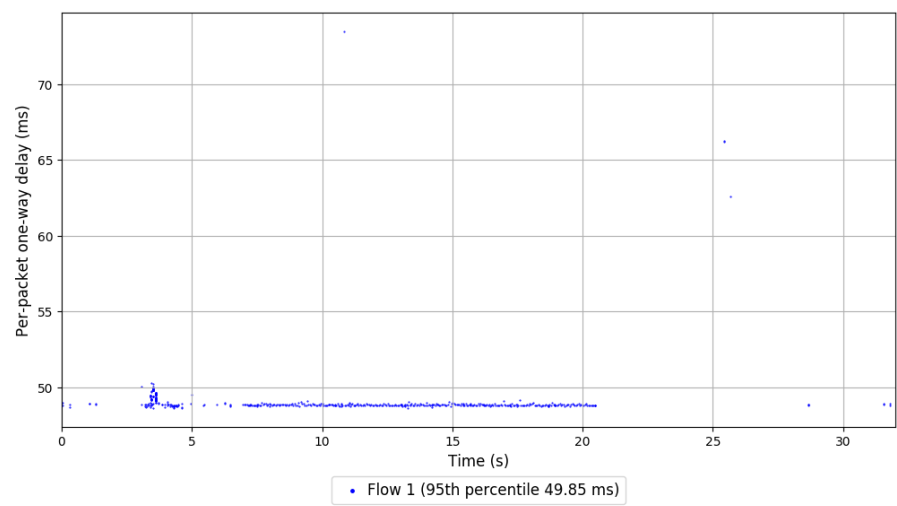
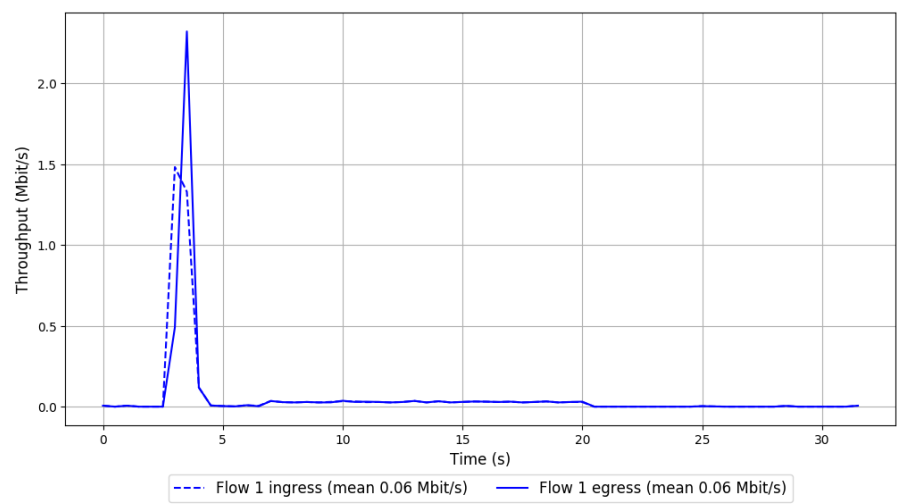
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 49.854 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-17 15:16:30

End at: 2018-04-17 15:17:00

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.011 ms

Loss rate: 0.00%

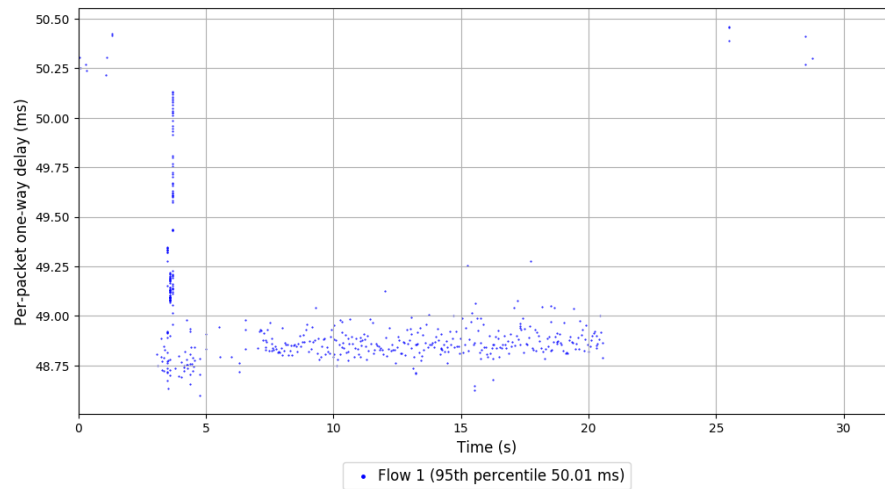
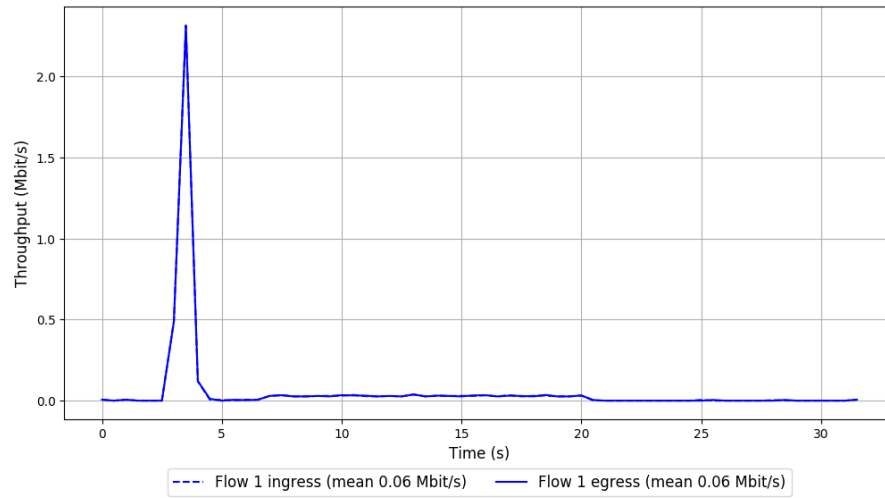
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.011 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-17 15:29:10

End at: 2018-04-17 15:29:40

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.00%

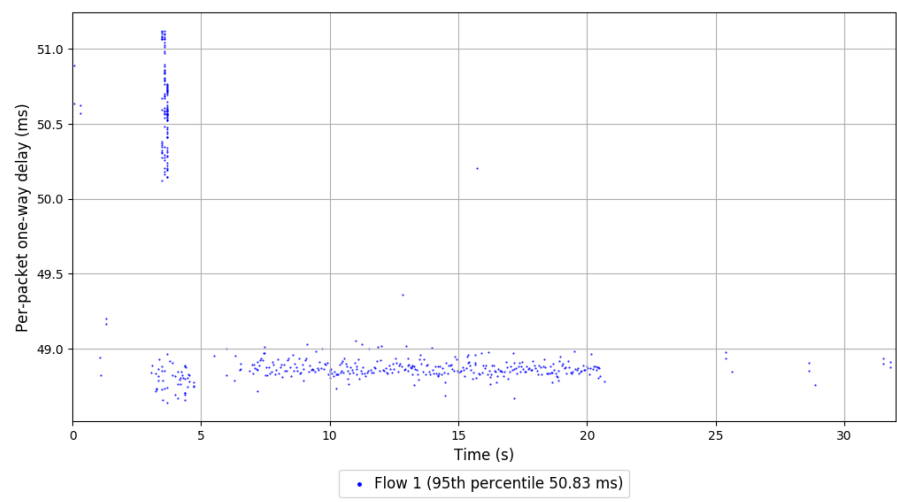
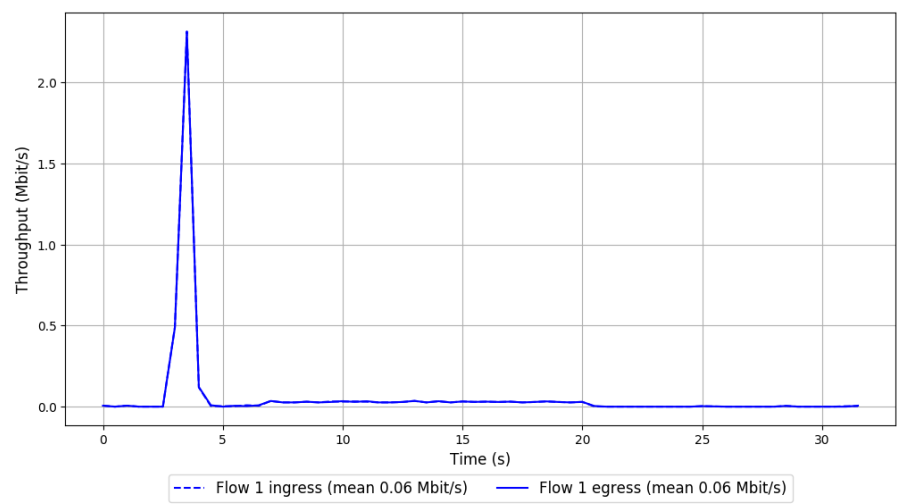
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.831 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-17 15:41:39

End at: 2018-04-17 15:42:09

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 0.00%

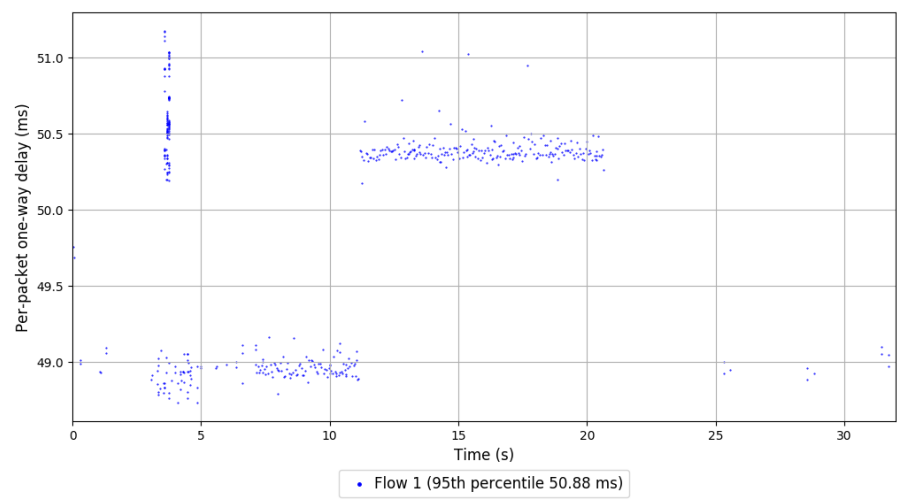
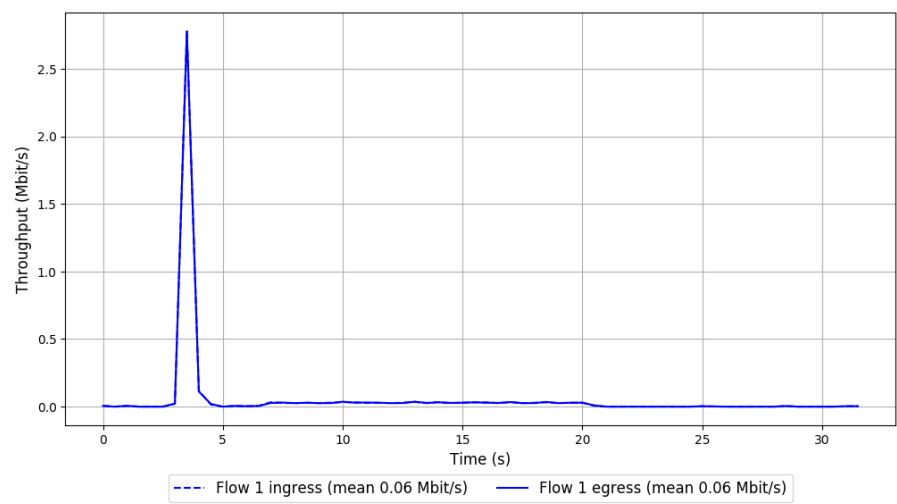
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.876 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-17 15:53:58

End at: 2018-04-17 15:54:28

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

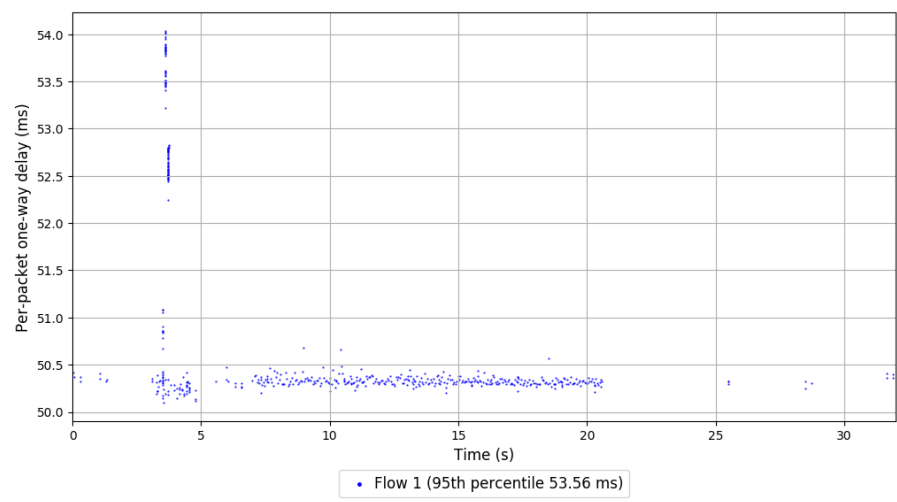
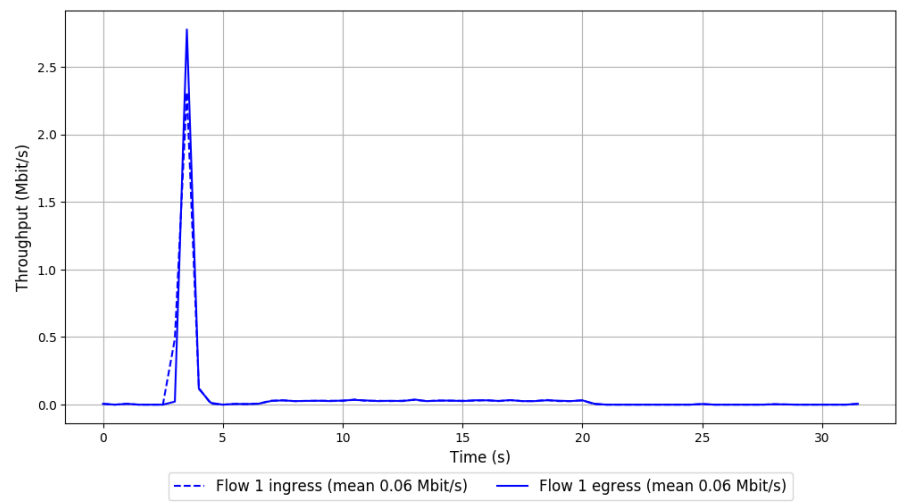
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-17 16:06:48

End at: 2018-04-17 16:07:18

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

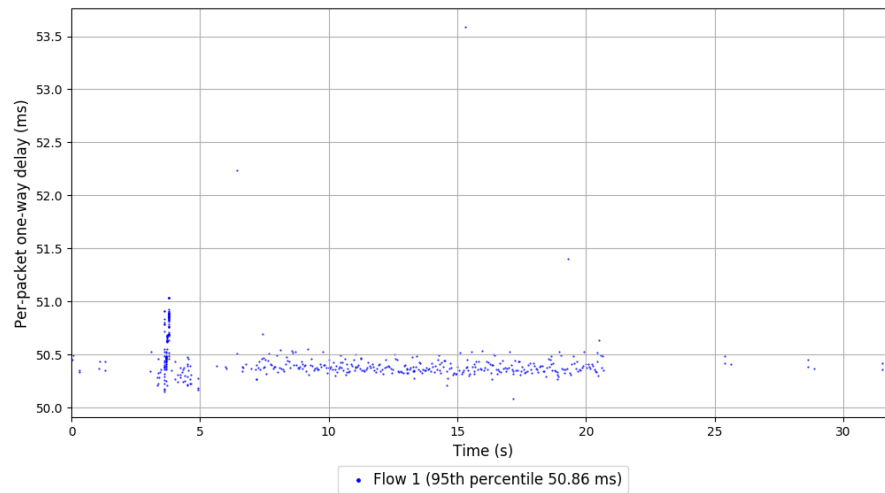
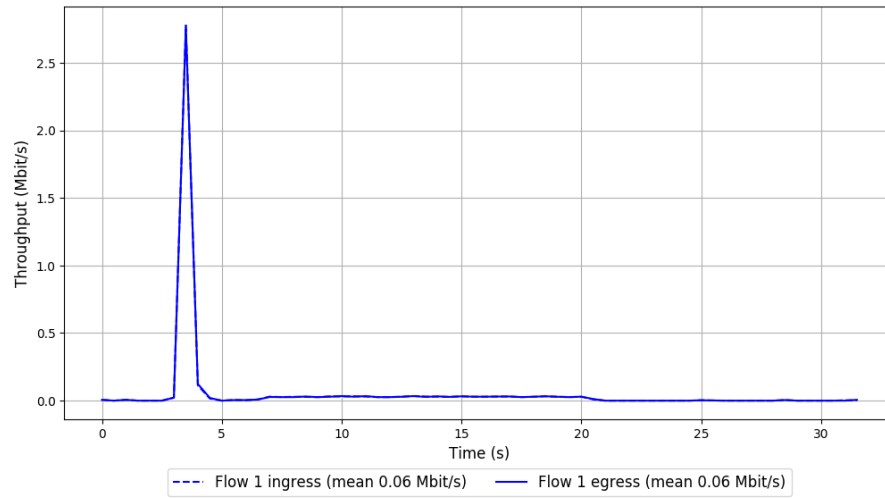
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.859 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-17 16:19:22

End at: 2018-04-17 16:19:52

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.00%

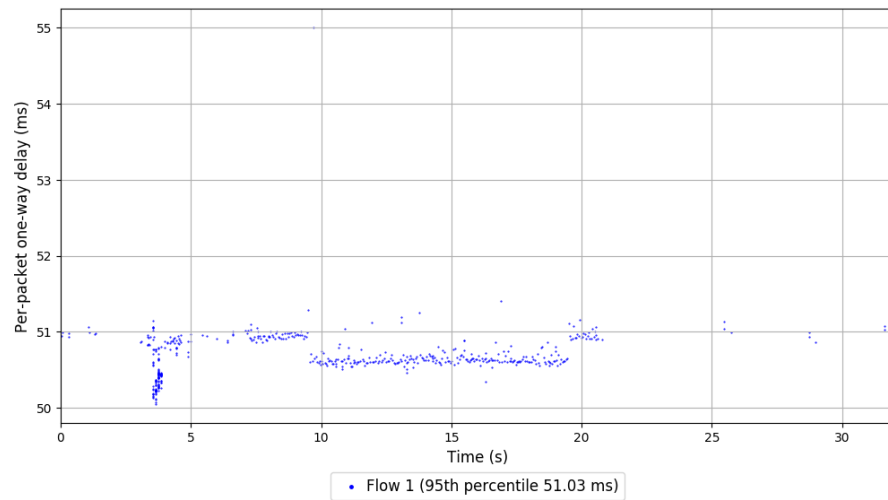
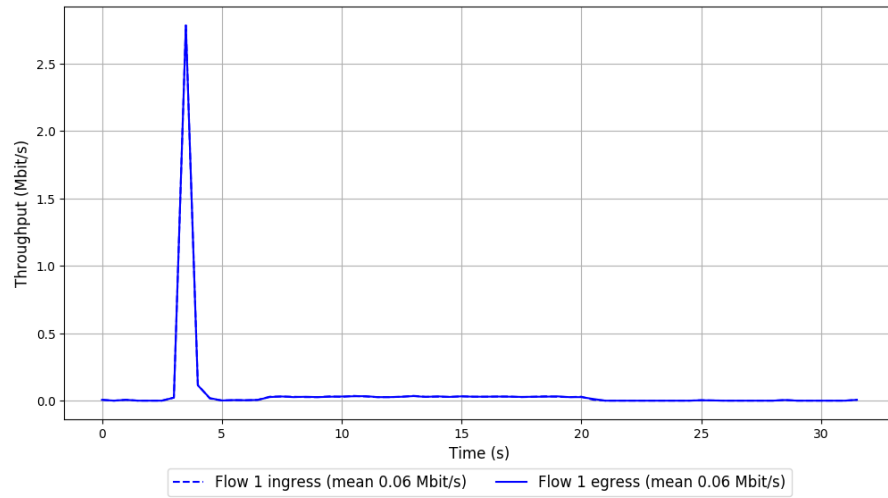
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 51.030 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-17 16:31:57

End at: 2018-04-17 16:32:28

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.901 ms

Loss rate: 0.00%

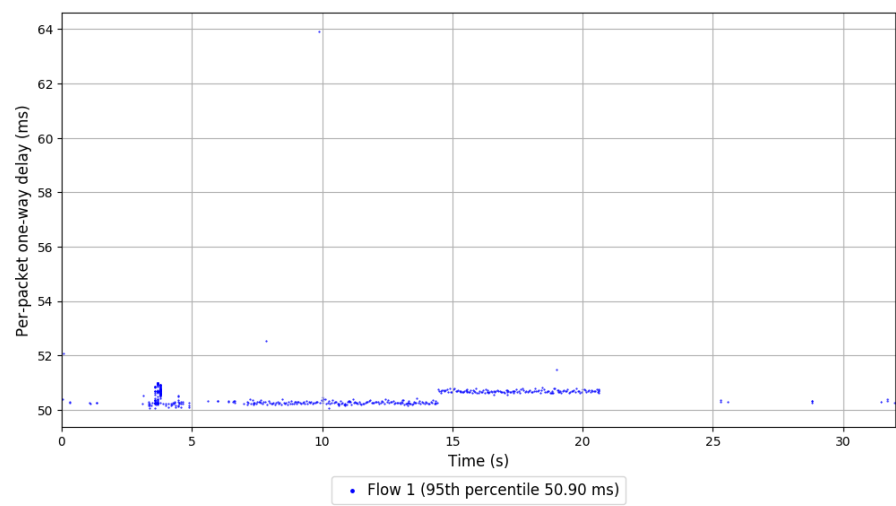
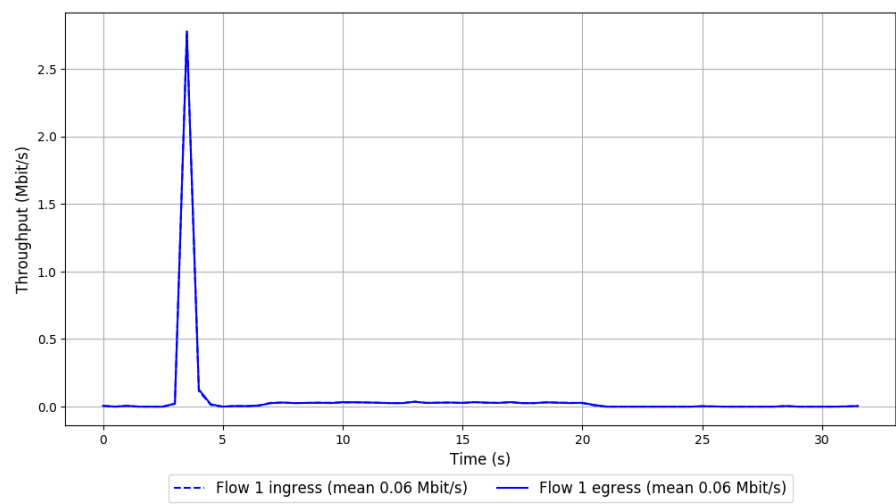
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 50.901 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-17 14:31:45

End at: 2018-04-17 14:32:15

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.564 ms

Loss rate: 0.00%

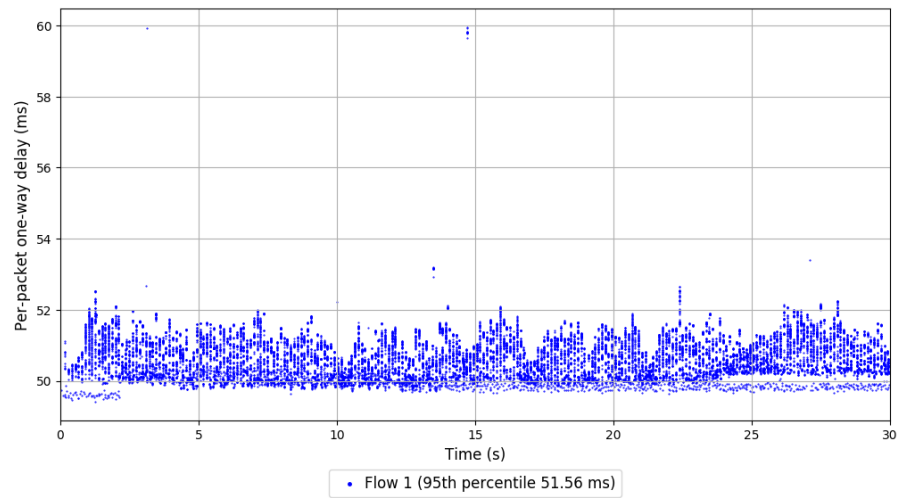
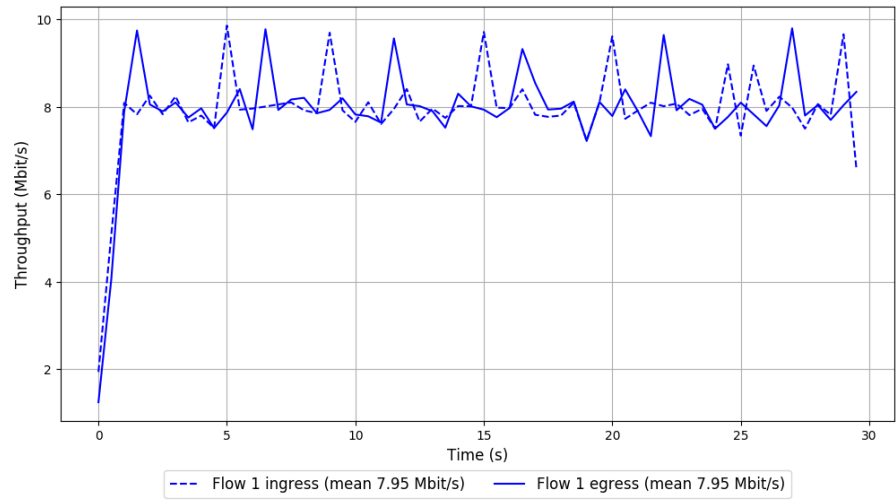
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 51.564 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-17 14:44:15

End at: 2018-04-17 14:44:45

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.00%

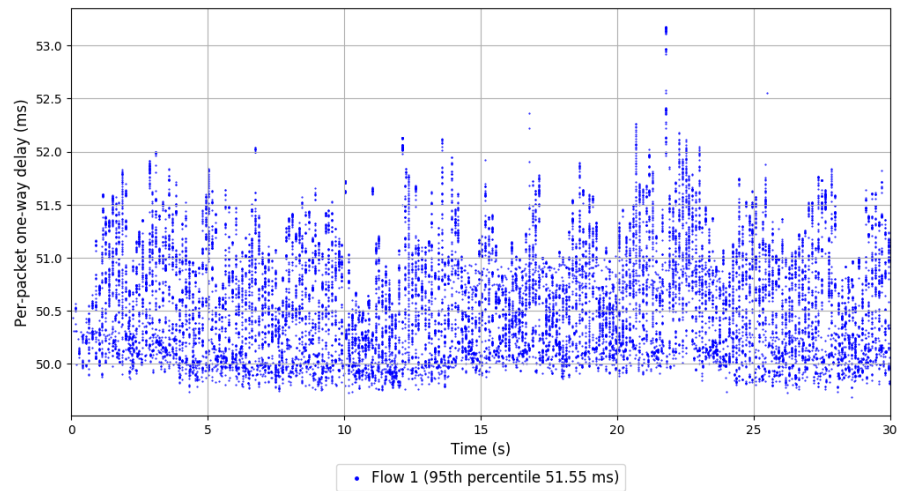
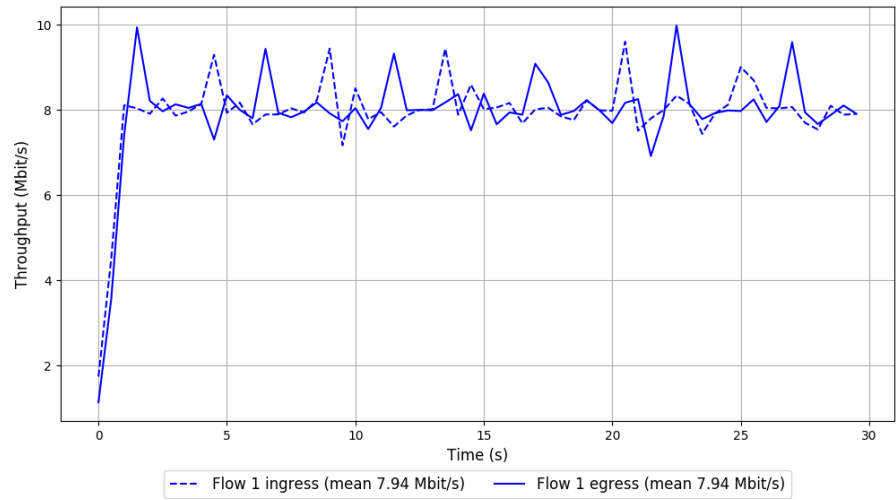
-- Flow 1:

Average throughput: 7.94 Mbit/s

95th percentile per-packet one-way delay: 51.553 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-17 14:56:49

End at: 2018-04-17 14:57:19

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

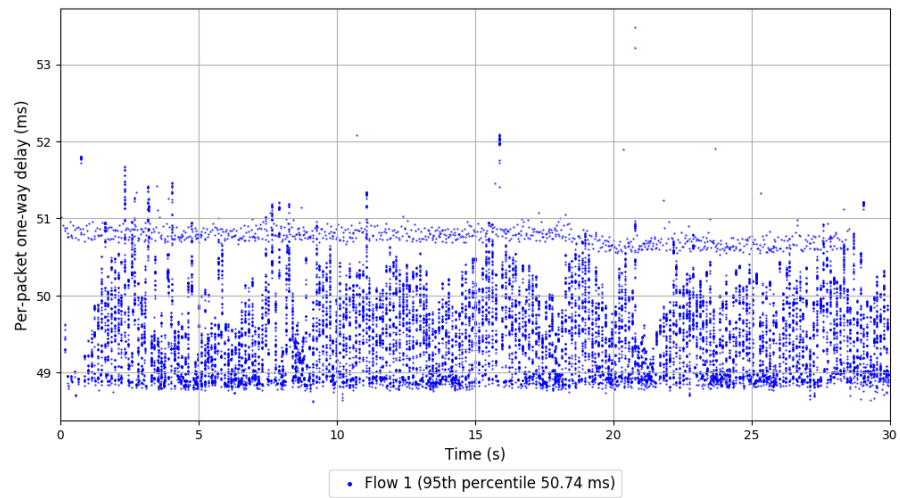
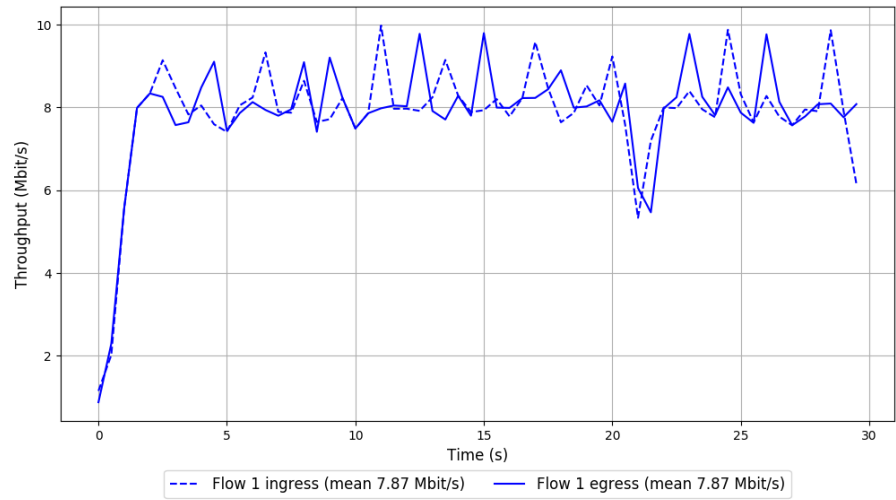
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 50.741 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-17 15:09:37

End at: 2018-04-17 15:10:07

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.00%

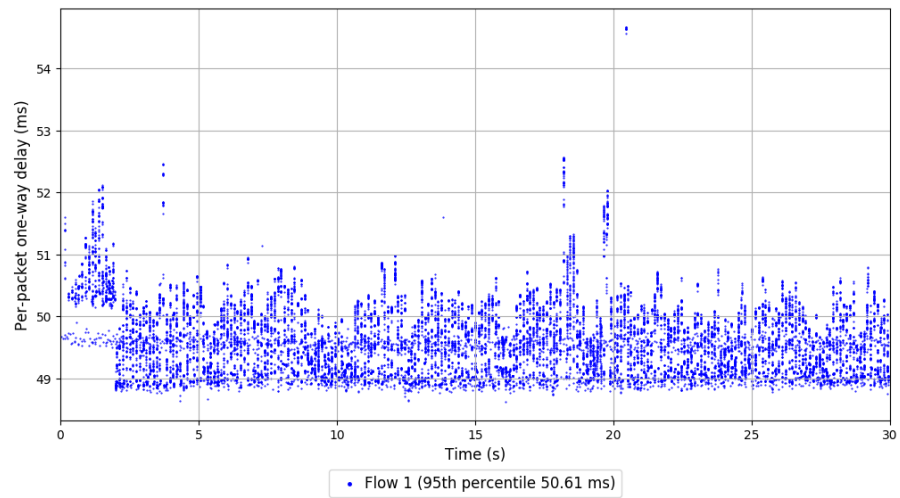
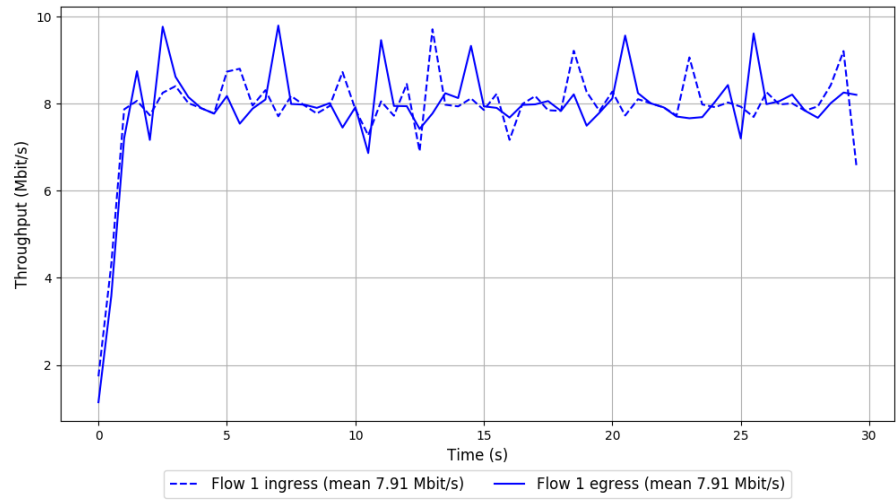
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 50.613 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-17 15:22:27

End at: 2018-04-17 15:22:57

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 0.00%

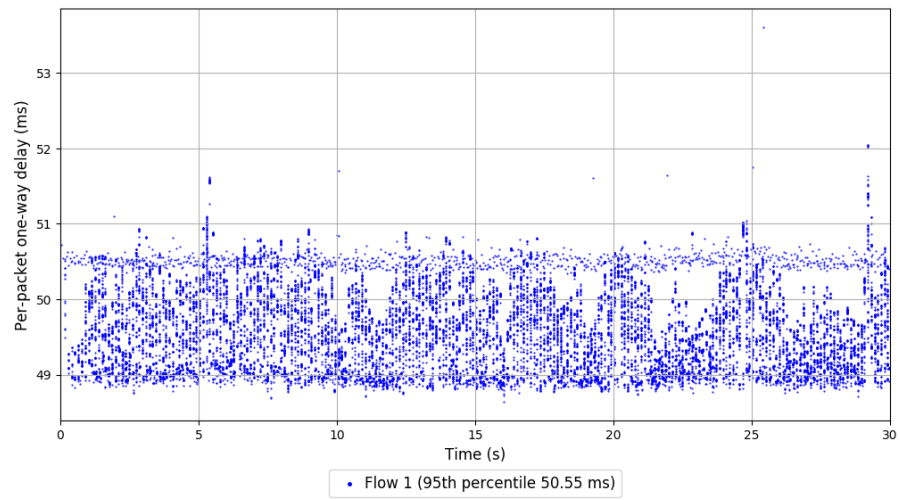
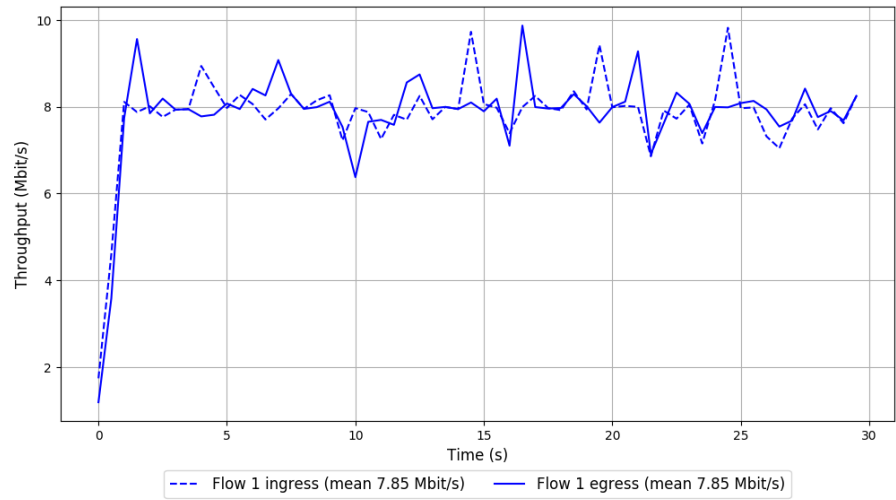
-- Flow 1:

Average throughput: 7.85 Mbit/s

95th percentile per-packet one-way delay: 50.548 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-17 15:35:05

End at: 2018-04-17 15:35:35

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.73 Mbit/s

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

Loss rate: 0.00%

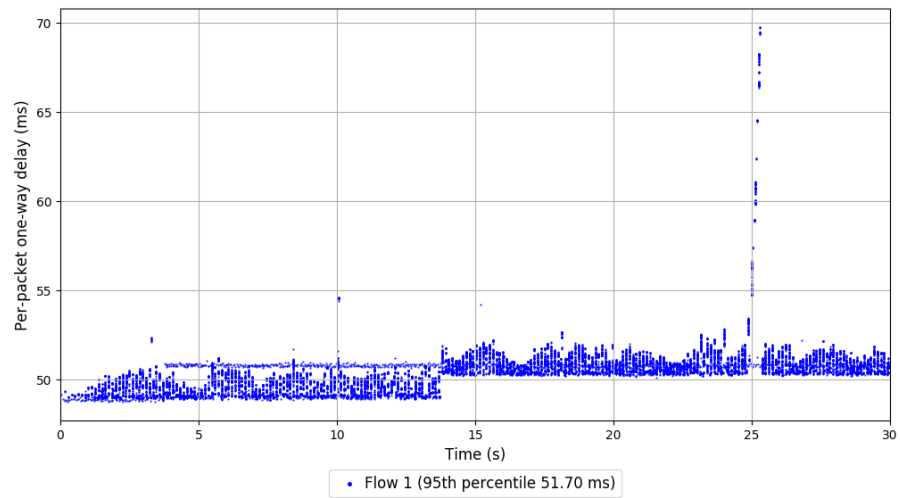
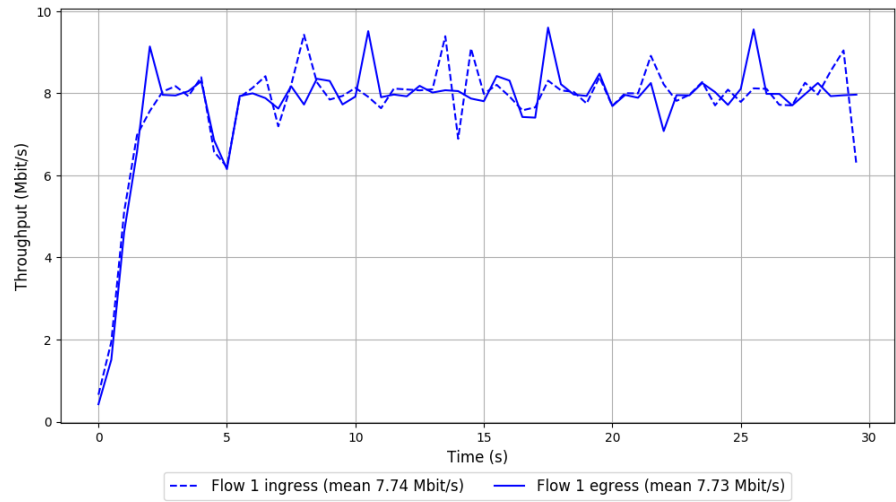
-- Flow 1:

Average throughput: 7.73 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-17 15:47:31

End at: 2018-04-17 15:48:01

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.844 ms

Loss rate: 0.00%

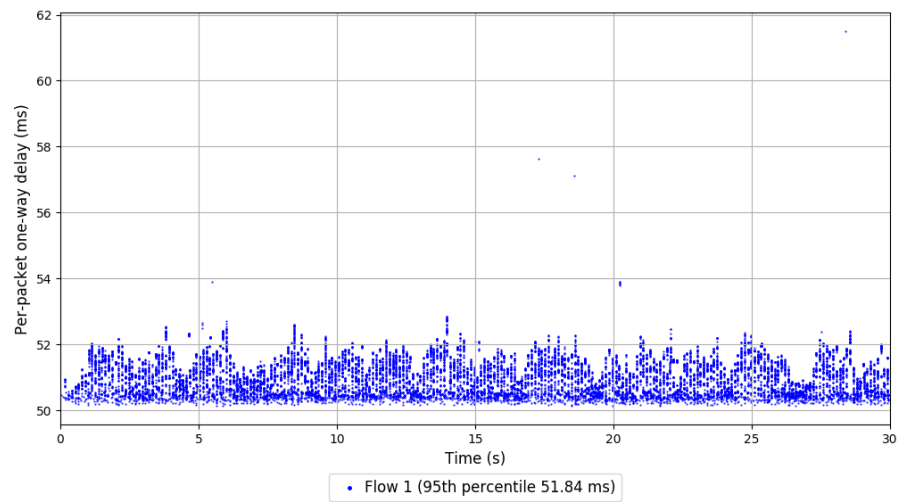
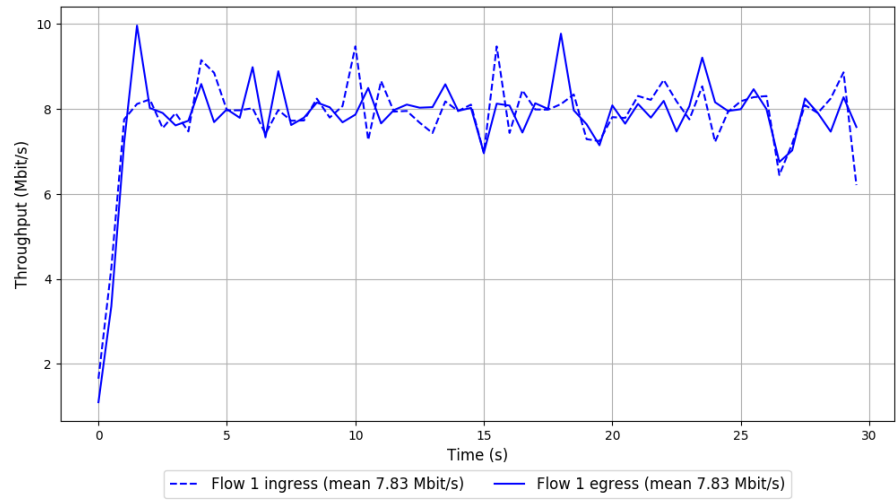
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.844 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-17 15:59:57

End at: 2018-04-17 16:00:27

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.967 ms

Loss rate: 0.00%

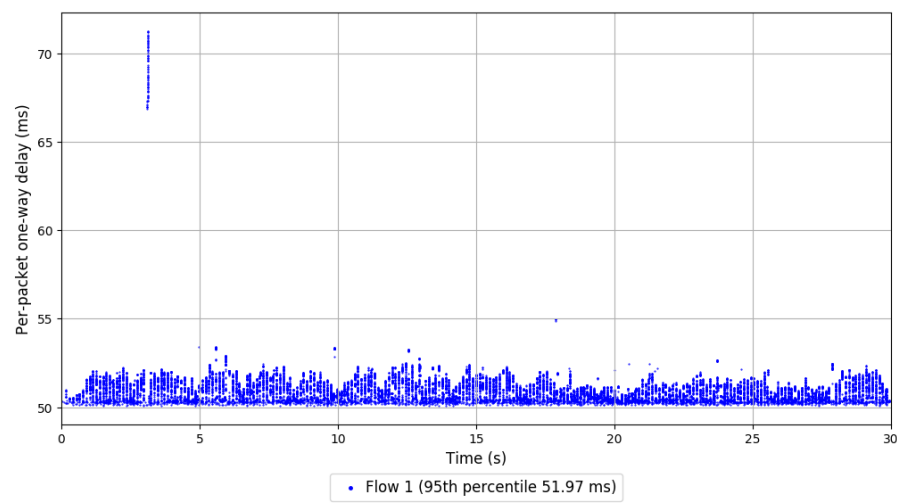
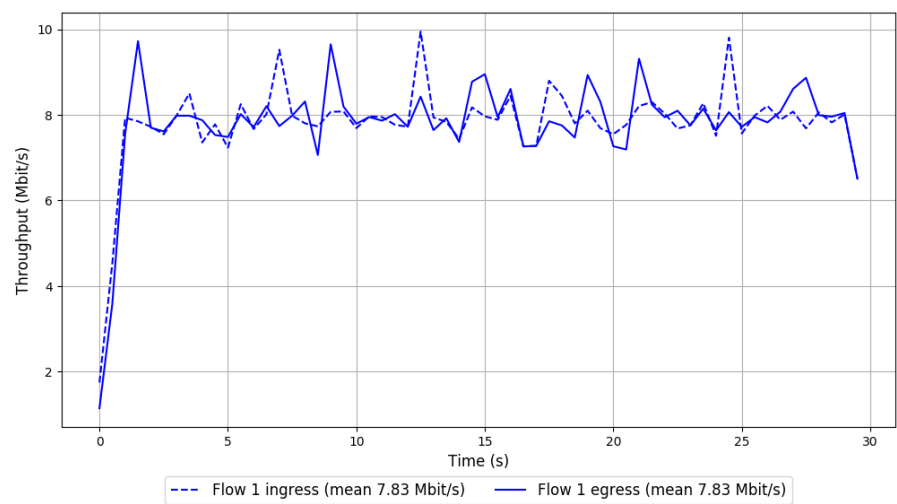
-- Flow 1:

Average throughput: 7.83 Mbit/s

95th percentile per-packet one-way delay: 51.967 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-17 16:12:43

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

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.733 ms

Loss rate: 0.00%

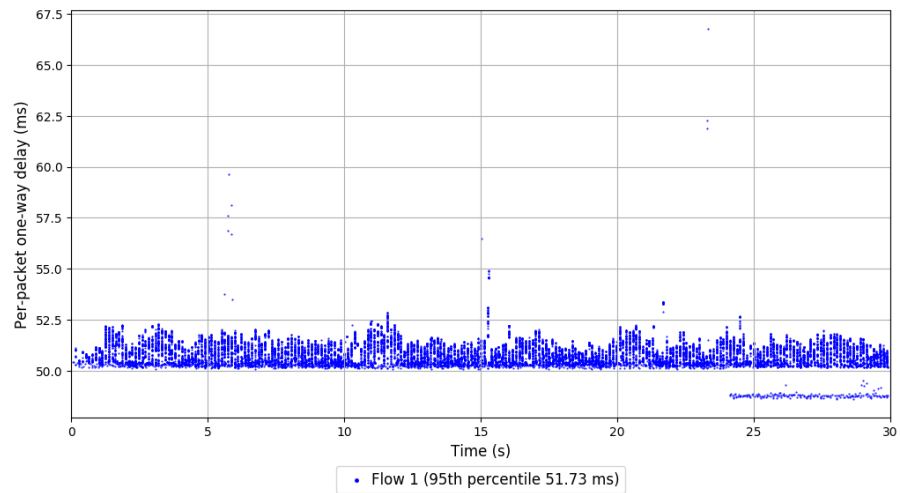
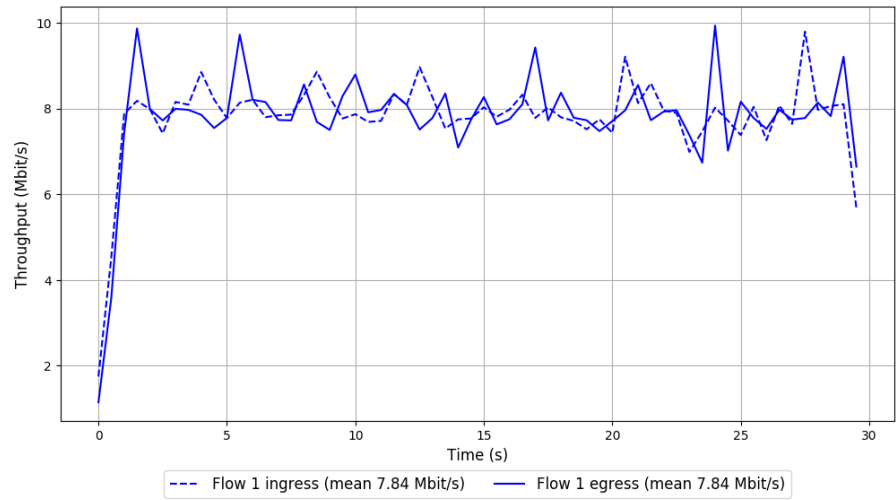
-- Flow 1:

Average throughput: 7.84 Mbit/s

95th percentile per-packet one-way delay: 51.733 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-17 16:25:21

End at: 2018-04-17 16:25:51

Below is generated by plot.py at 2018-04-17 18:08:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.669 ms

Loss rate: 0.00%

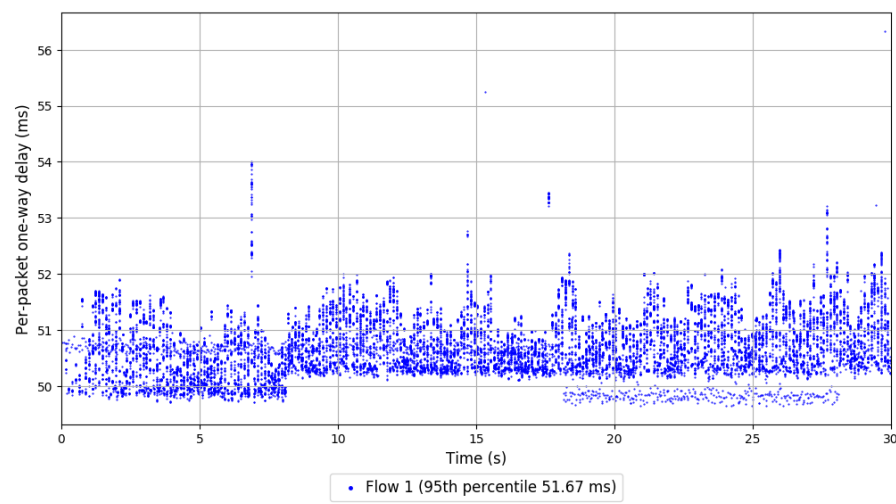
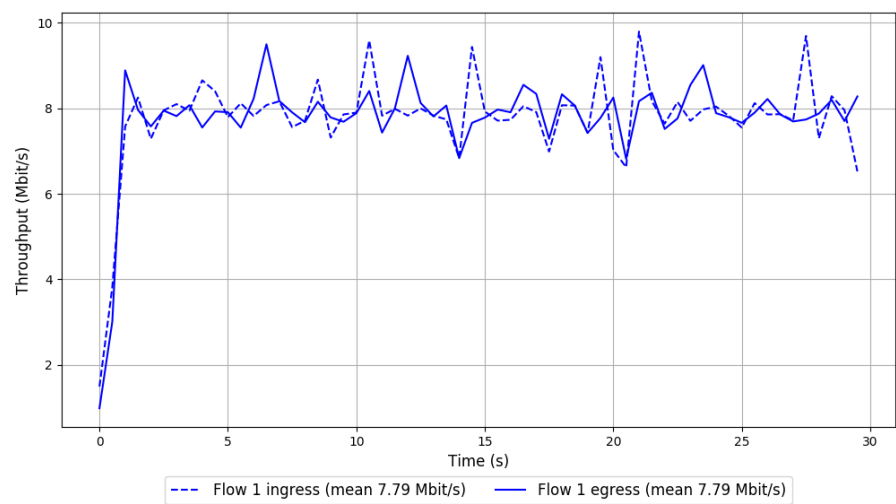
-- Flow 1:

Average throughput: 7.79 Mbit/s

95th percentile per-packet one-way delay: 51.669 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

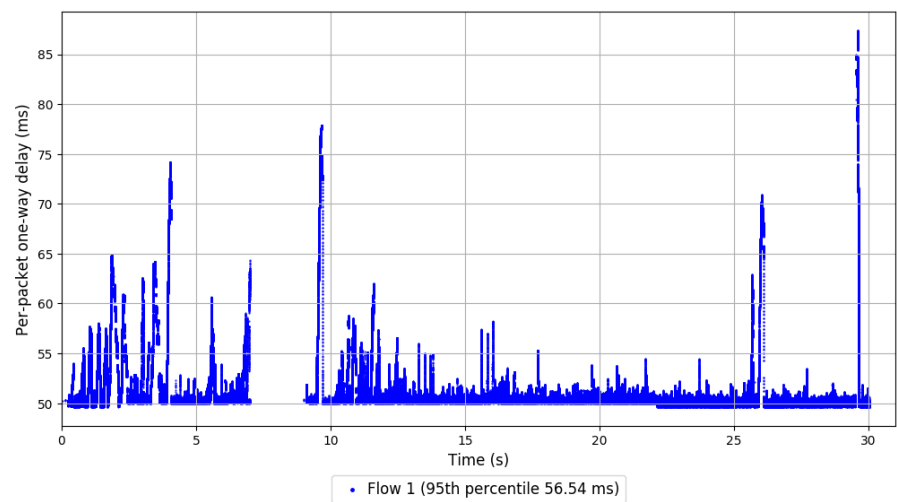
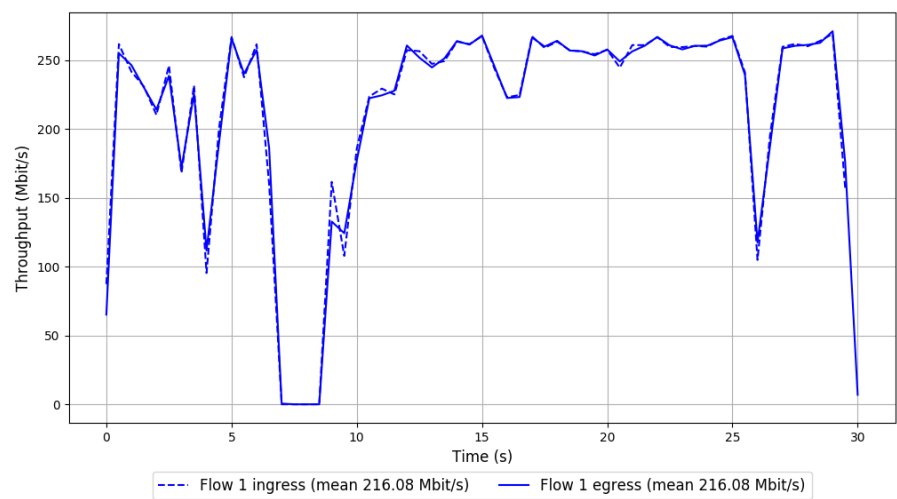


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-17 14:36:47
End at: 2018-04-17 14:37:17

# Below is generated by plot.py at 2018-04-17 18:12:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.08 Mbit/s
95th percentile per-packet one-way delay: 56.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.08 Mbit/s
95th percentile per-packet one-way delay: 56.537 ms
Loss rate: 0.00%
```

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

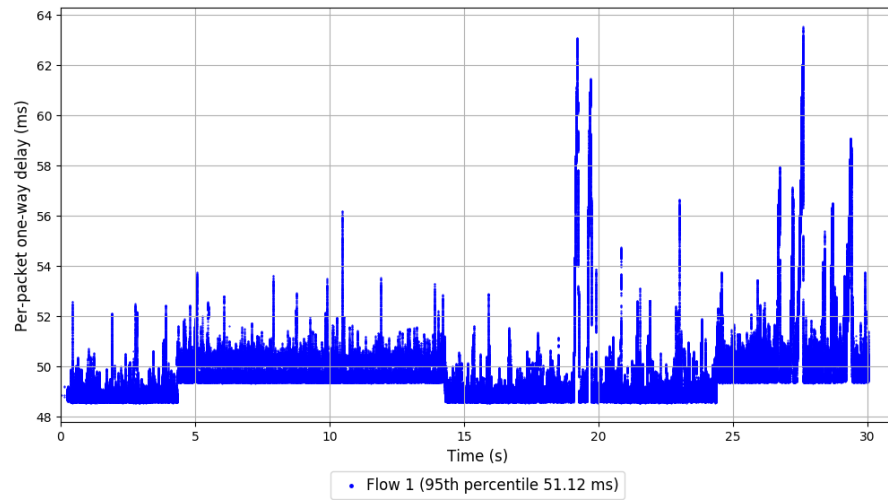
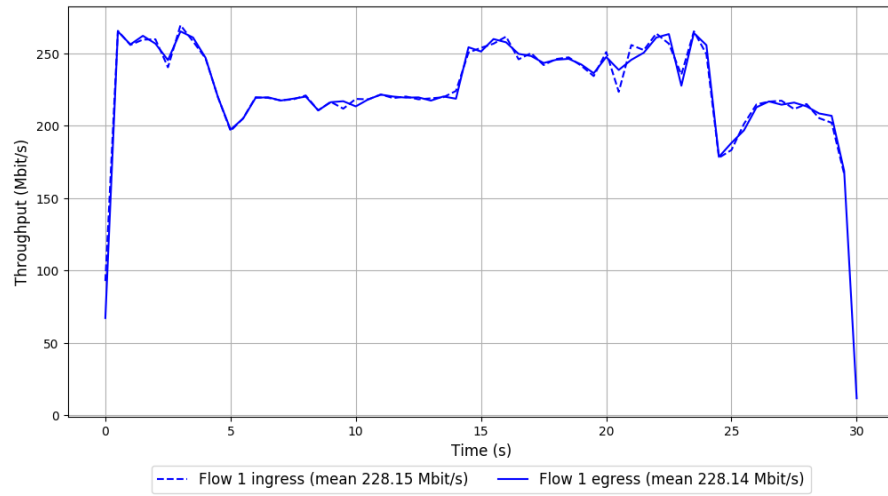


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-17 14:49:15
End at: 2018-04-17 14:49:45

# Below is generated by plot.py at 2018-04-17 18:12:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 51.124 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 228.14 Mbit/s
95th percentile per-packet one-way delay: 51.124 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-17 15:02:08

End at: 2018-04-17 15:02:38

Below is generated by plot.py at 2018-04-17 18:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.87 Mbit/s

95th percentile per-packet one-way delay: 57.607 ms

Loss rate: 0.01%

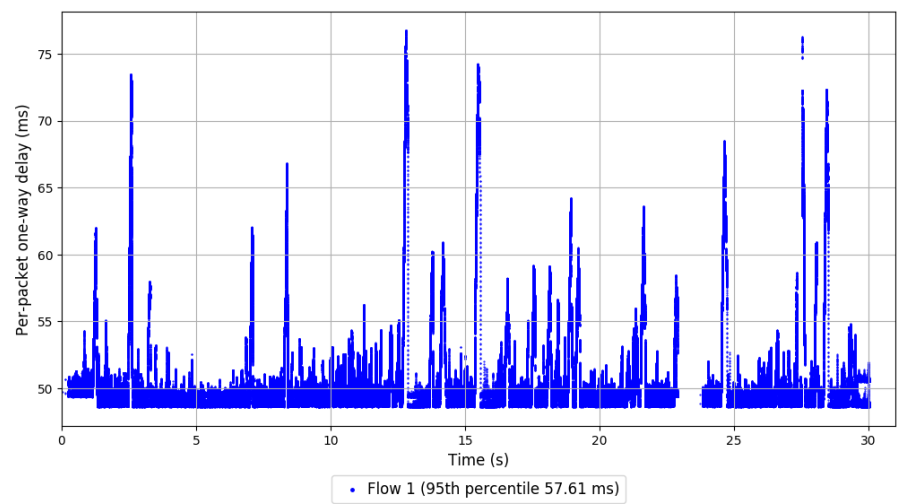
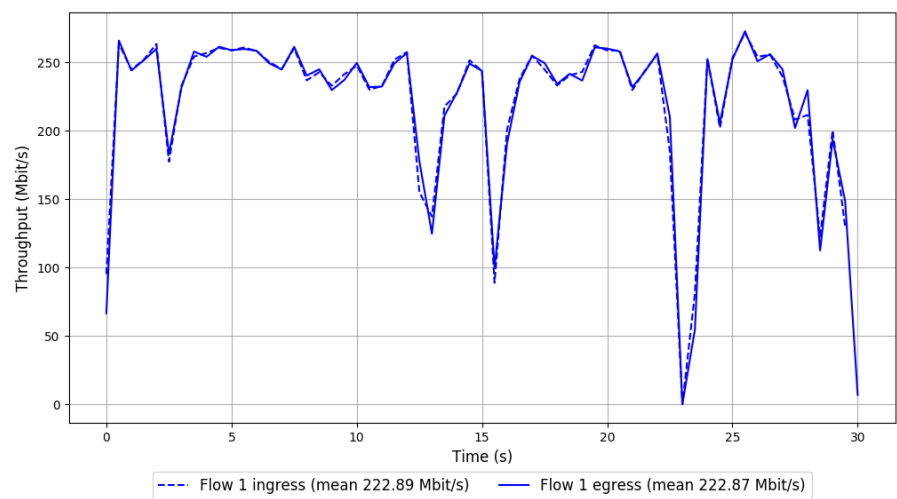
-- Flow 1:

Average throughput: 222.87 Mbit/s

95th percentile per-packet one-way delay: 57.607 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-17 15:15:00

End at: 2018-04-17 15:15:30

Below is generated by plot.py at 2018-04-17 18:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.38 Mbit/s

95th percentile per-packet one-way delay: 58.594 ms

Loss rate: 0.00%

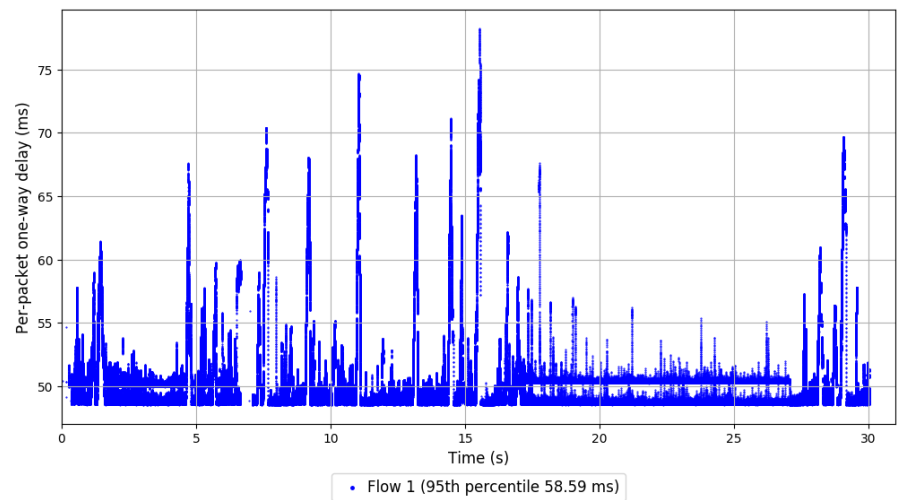
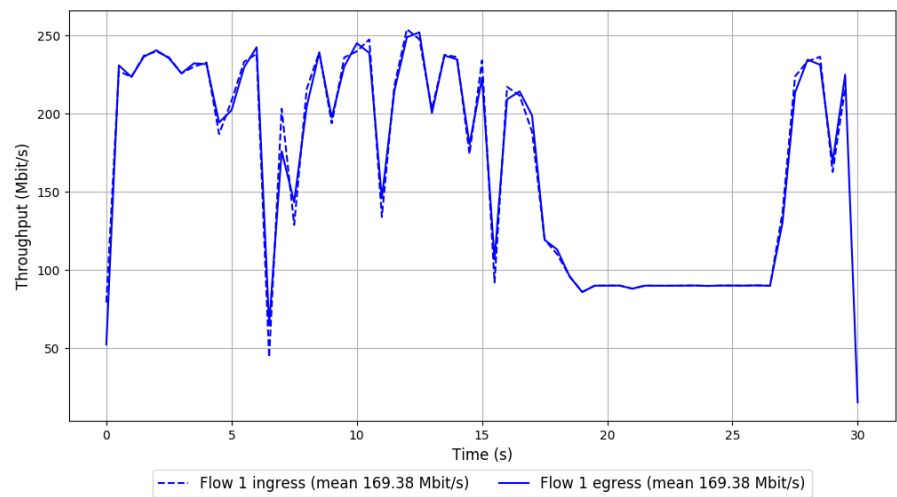
-- Flow 1:

Average throughput: 169.38 Mbit/s

95th percentile per-packet one-way delay: 58.594 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-17 15:27:35

End at: 2018-04-17 15:28:05

Below is generated by plot.py at 2018-04-17 18:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.83 Mbit/s

95th percentile per-packet one-way delay: 60.734 ms

Loss rate: 0.00%

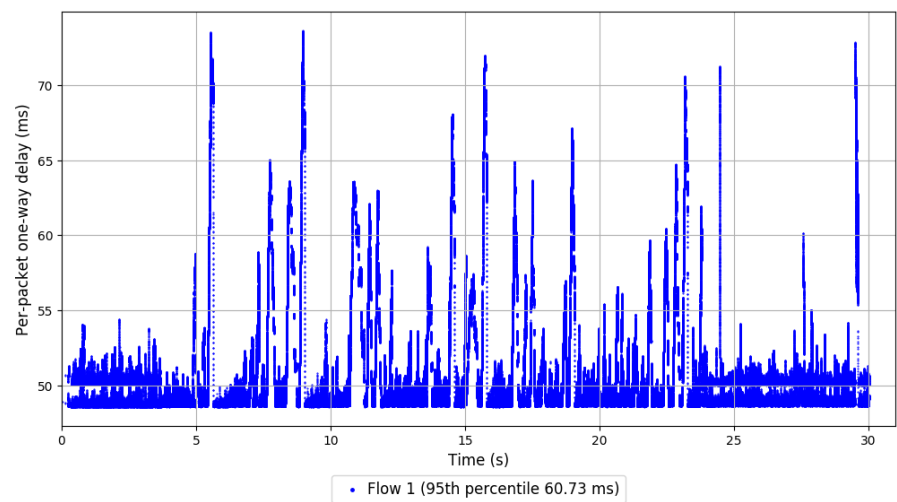
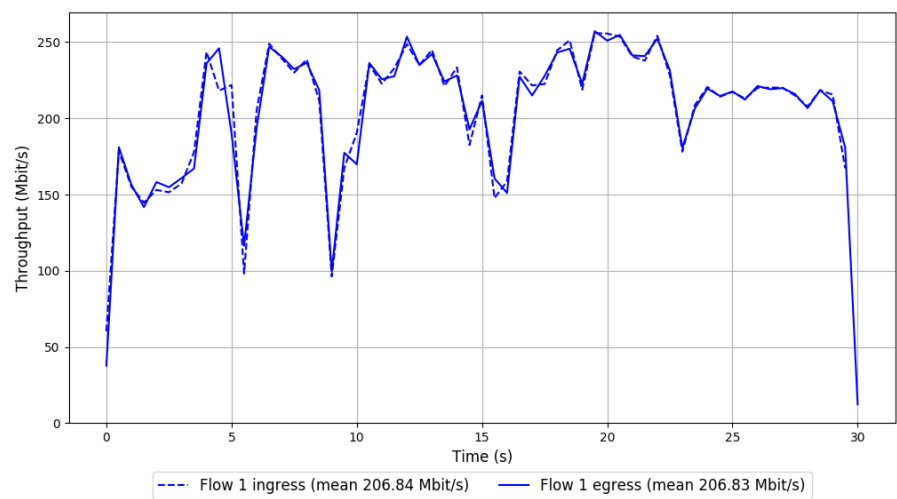
-- Flow 1:

Average throughput: 206.83 Mbit/s

95th percentile per-packet one-way delay: 60.734 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-17 15:40:06

End at: 2018-04-17 15:40:36

Below is generated by plot.py at 2018-04-17 18:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.20 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.00%

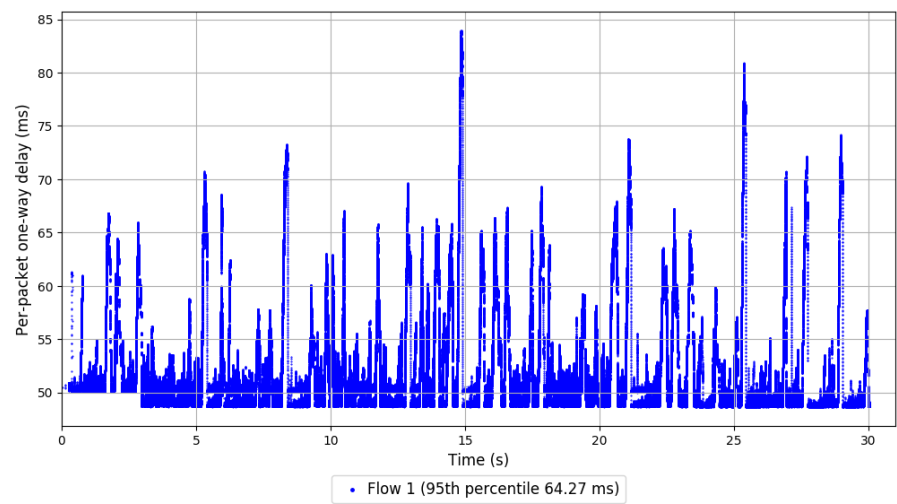
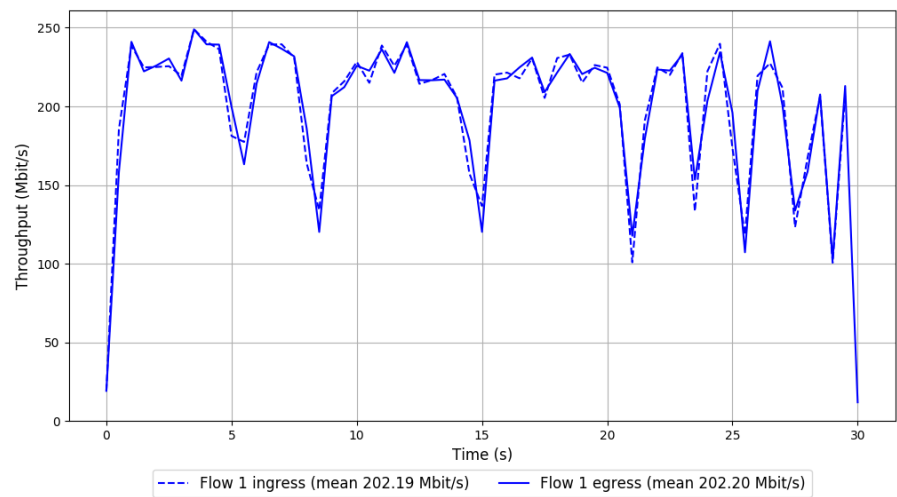
-- Flow 1:

Average throughput: 202.20 Mbit/s

95th percentile per-packet one-way delay: 64.268 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-17 15:52:34

End at: 2018-04-17 15:53:04

Below is generated by plot.py at 2018-04-17 18:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 61.037 ms

Loss rate: 0.00%

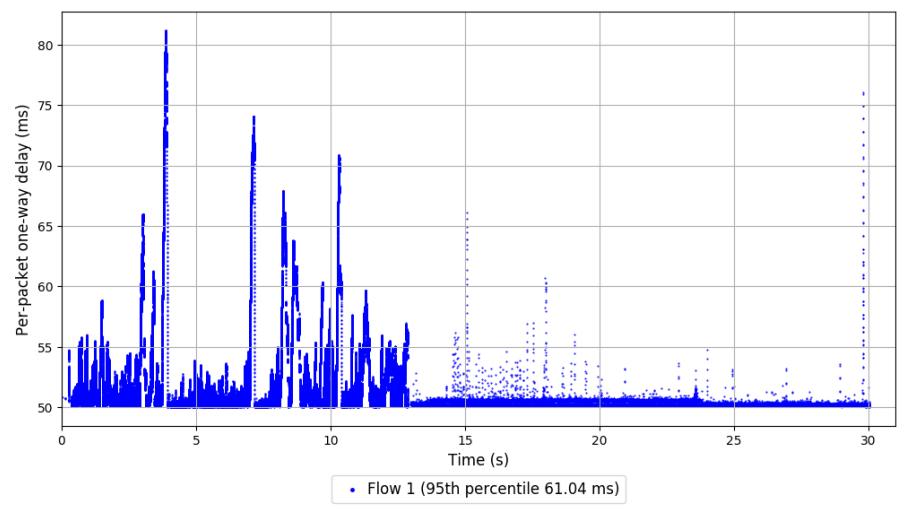
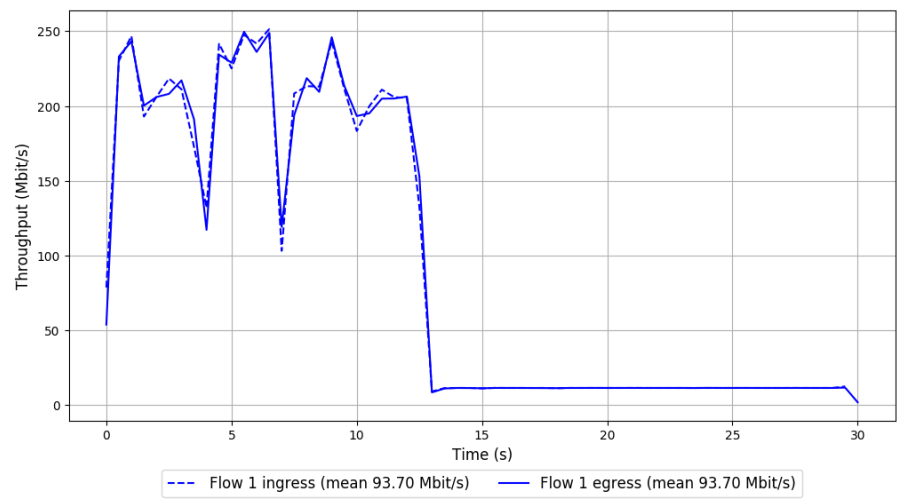
-- Flow 1:

Average throughput: 93.70 Mbit/s

95th percentile per-packet one-way delay: 61.037 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-17 16:05:15

End at: 2018-04-17 16:05:45

Below is generated by plot.py at 2018-04-17 18:14:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.39 Mbit/s

95th percentile per-packet one-way delay: 55.438 ms

Loss rate: 0.00%

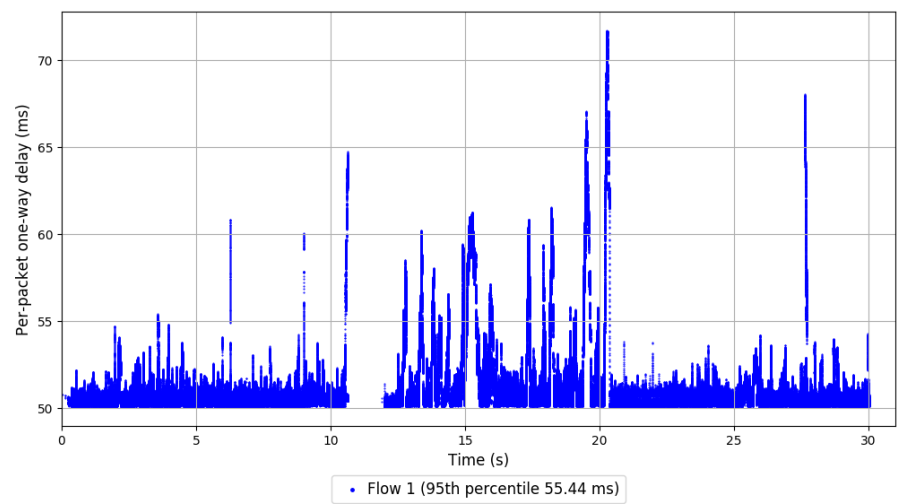
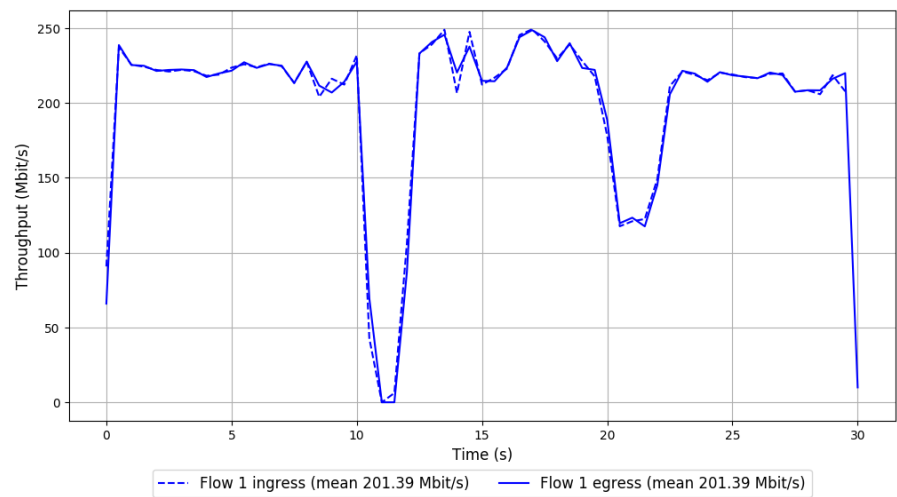
-- Flow 1:

Average throughput: 201.39 Mbit/s

95th percentile per-packet one-way delay: 55.438 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-17 16:17:49

End at: 2018-04-17 16:18:19

Below is generated by plot.py at 2018-04-17 18:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.87 Mbit/s

95th percentile per-packet one-way delay: 58.376 ms

Loss rate: 0.00%

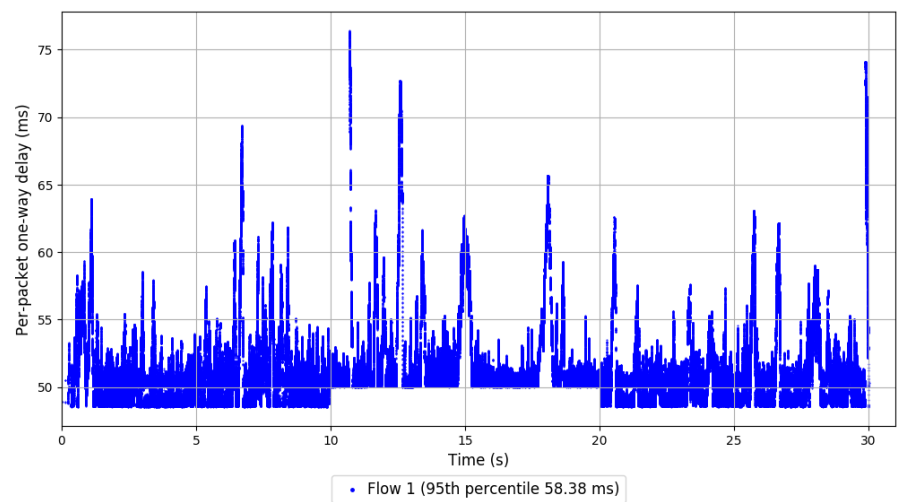
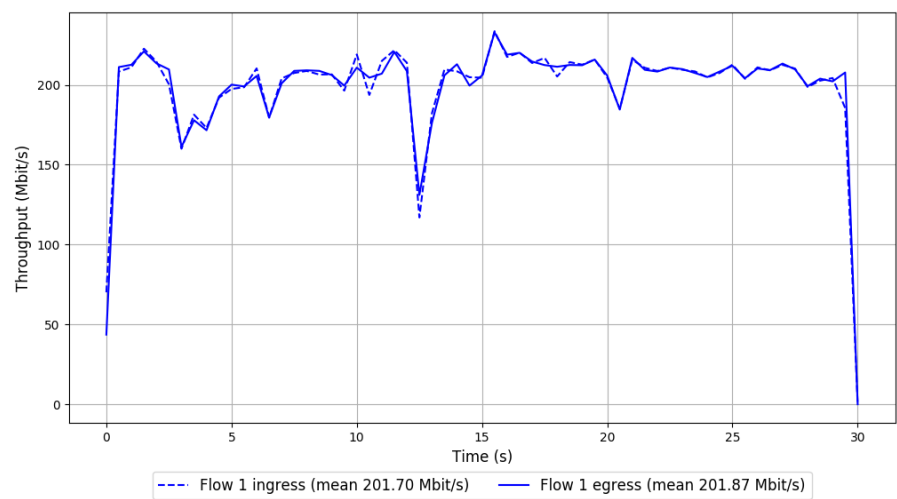
-- Flow 1:

Average throughput: 201.87 Mbit/s

95th percentile per-packet one-way delay: 58.376 ms

Loss rate: 0.00%

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

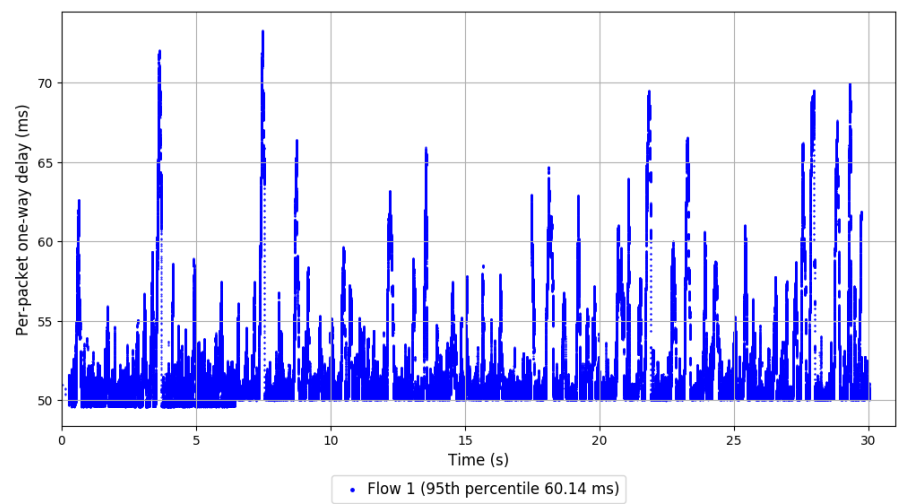
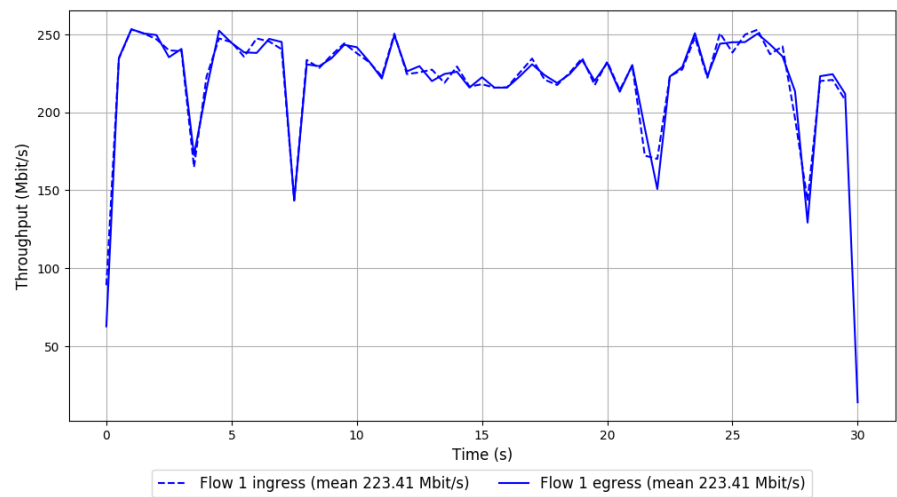


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-17 16:30:23
End at: 2018-04-17 16:30:53

# Below is generated by plot.py at 2018-04-17 18:18:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.41 Mbit/s
95th percentile per-packet one-way delay: 60.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.41 Mbit/s
95th percentile per-packet one-way delay: 60.144 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-17 14:32:22

End at: 2018-04-17 14:32:52

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.94 Mbit/s

95th percentile per-packet one-way delay: 51.569 ms

Loss rate: 0.00%

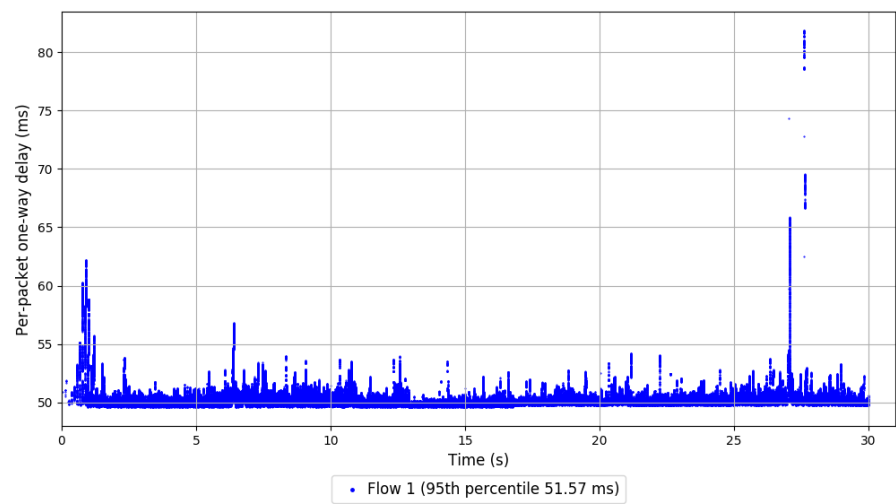
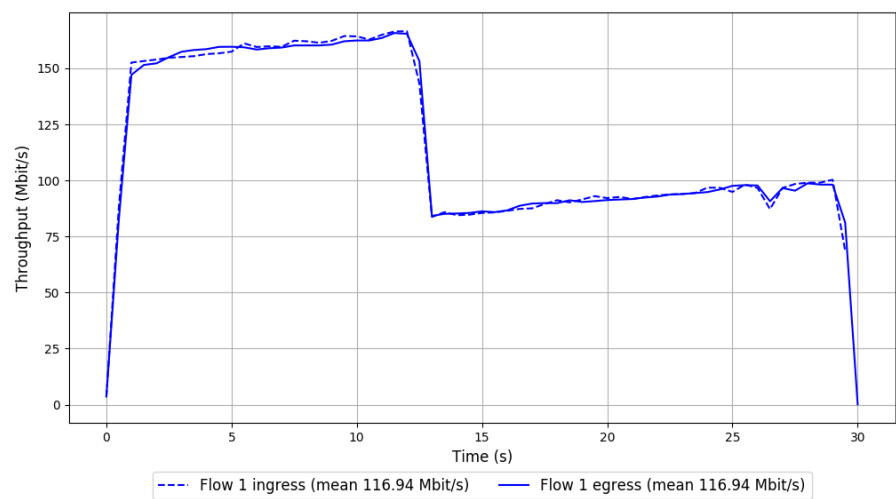
-- Flow 1:

Average throughput: 116.94 Mbit/s

95th percentile per-packet one-way delay: 51.569 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-17 14:44:52

End at: 2018-04-17 14:45:22

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 58.794 ms

Loss rate: 0.00%

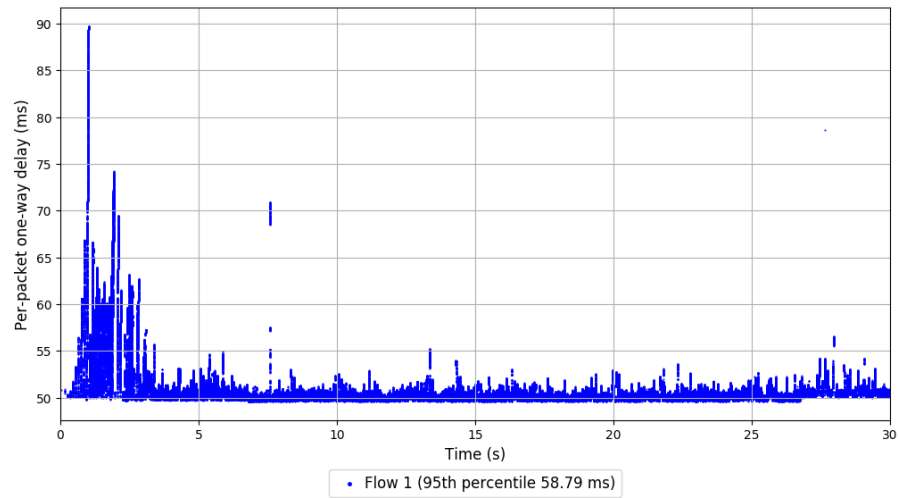
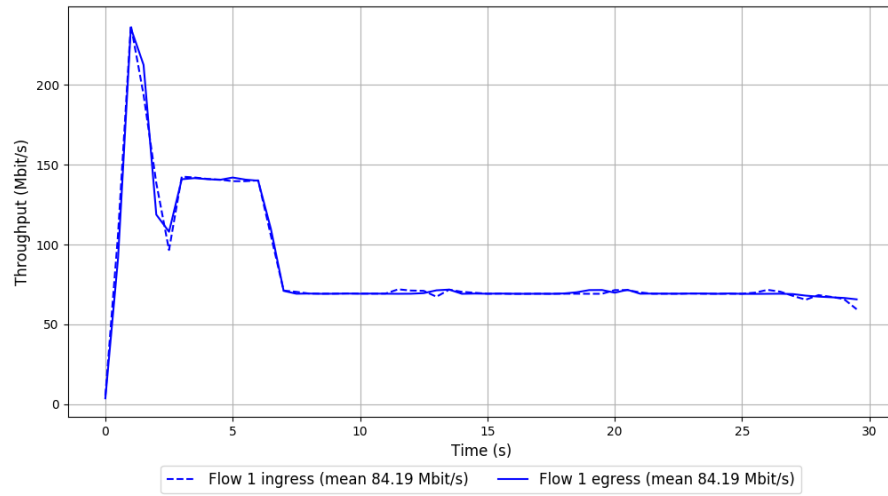
-- Flow 1:

Average throughput: 84.19 Mbit/s

95th percentile per-packet one-way delay: 58.794 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-17 14:57:26

End at: 2018-04-17 14:57:56

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 59.635 ms

Loss rate: 0.00%

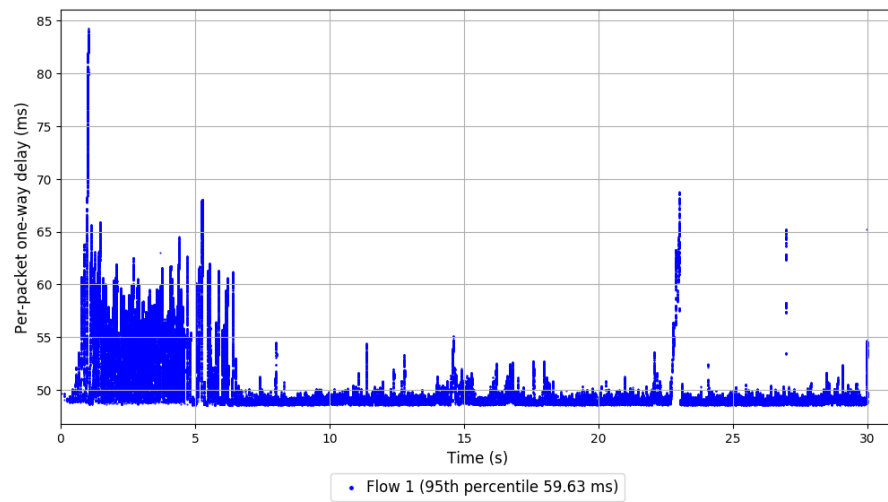
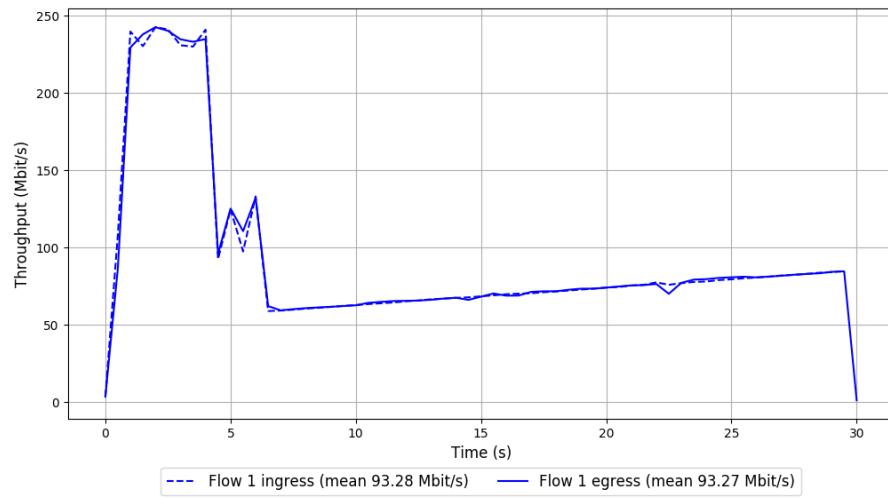
-- Flow 1:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 59.635 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-17 15:10:14

End at: 2018-04-17 15:10:44

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 128.71 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.00%

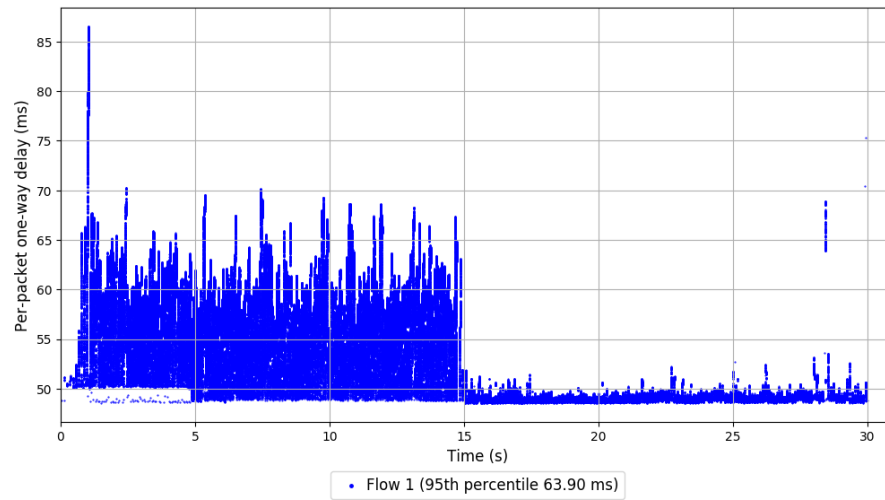
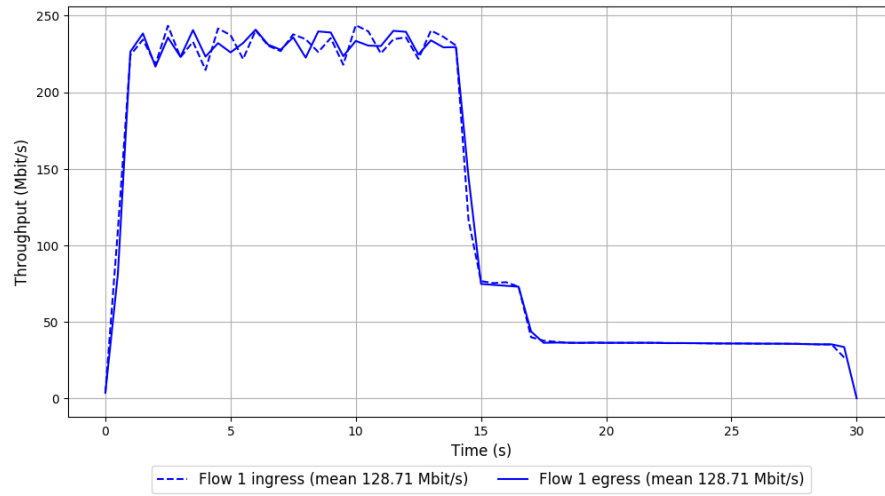
-- Flow 1:

Average throughput: 128.71 Mbit/s

95th percentile per-packet one-way delay: 63.900 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

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

End at: 2018-04-17 15:23:35

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 51.068 ms

Loss rate: 0.00%

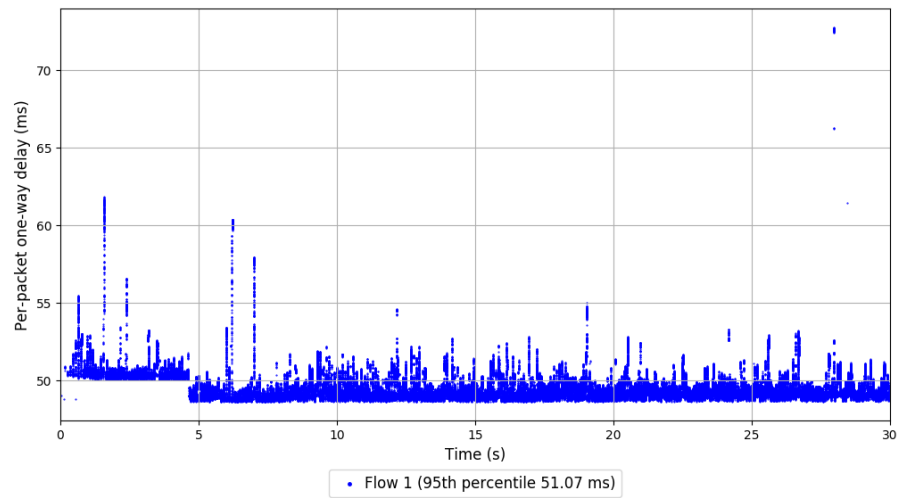
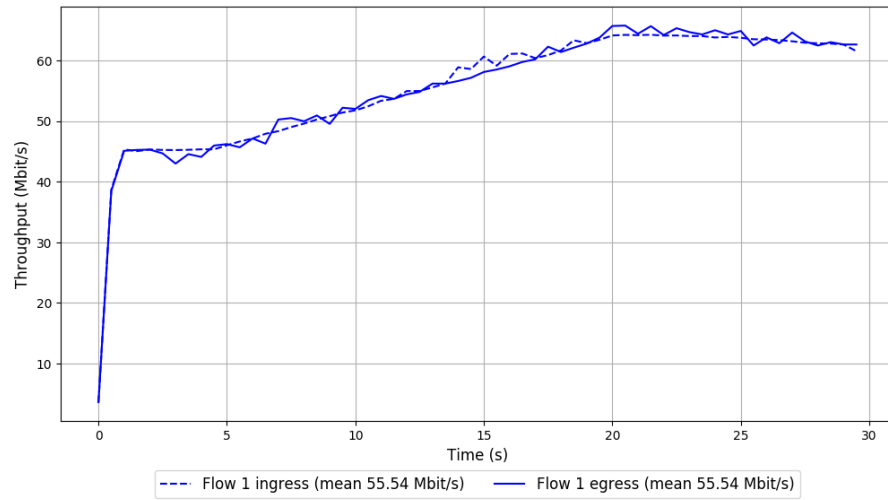
-- Flow 1:

Average throughput: 55.54 Mbit/s

95th percentile per-packet one-way delay: 51.068 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-17 15:35:43

End at: 2018-04-17 15:36:13

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.05 Mbit/s

95th percentile per-packet one-way delay: 51.509 ms

Loss rate: 0.00%

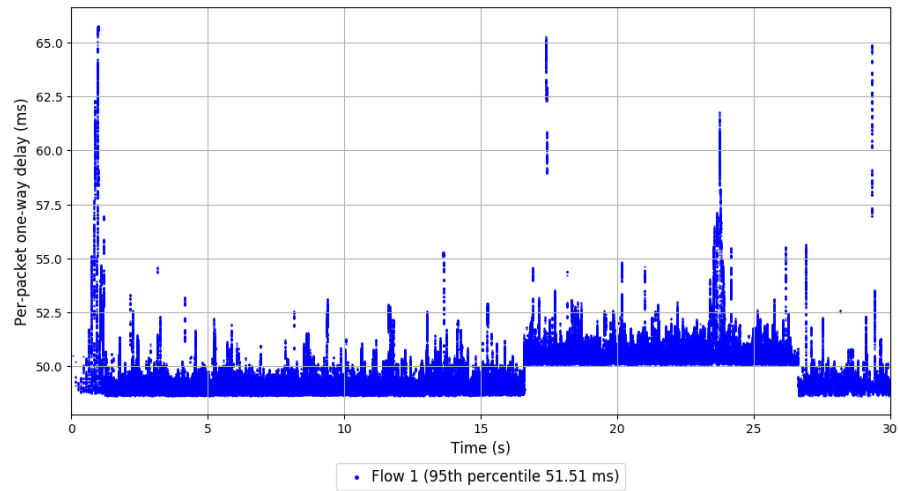
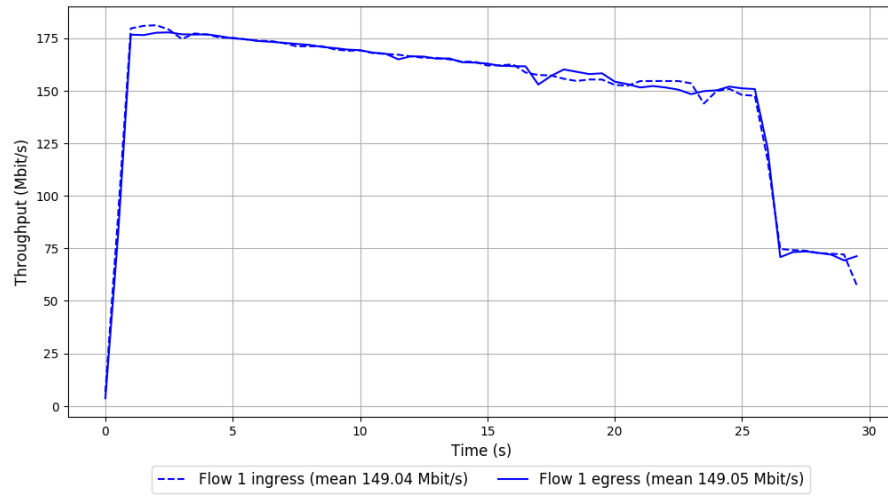
-- Flow 1:

Average throughput: 149.05 Mbit/s

95th percentile per-packet one-way delay: 51.509 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-17 15:48:09

End at: 2018-04-17 15:48:39

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 61.876 ms

Loss rate: 0.00%

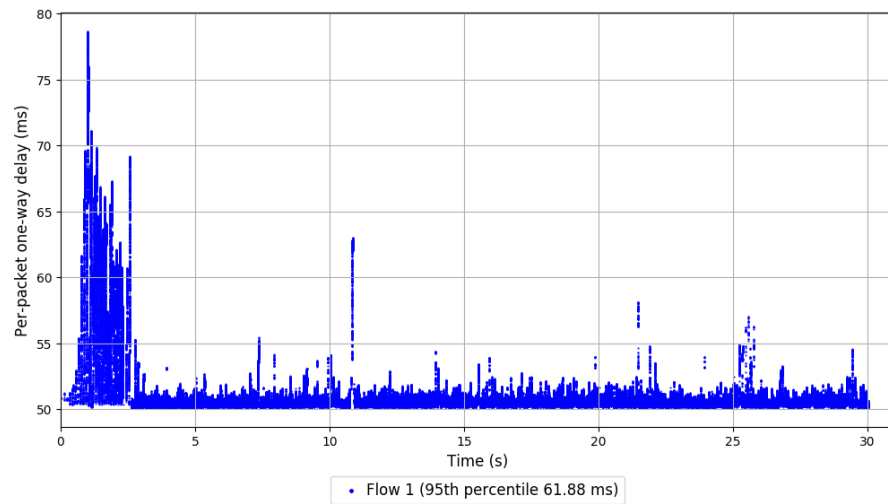
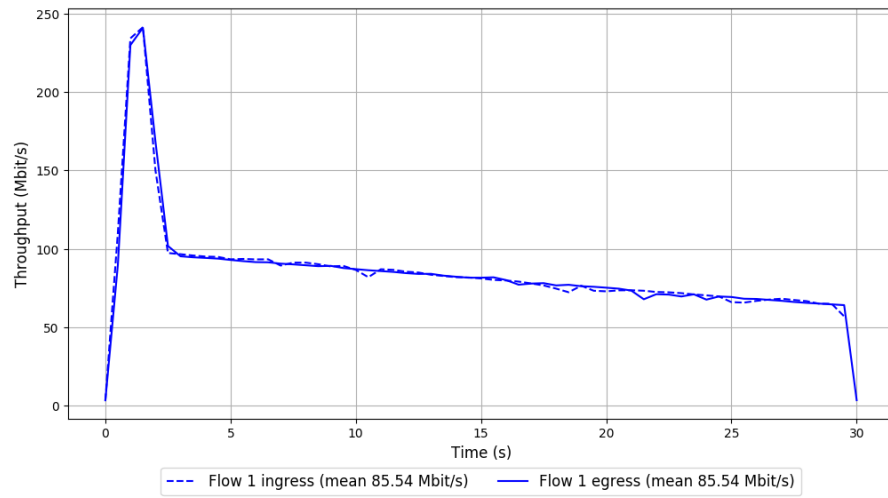
-- Flow 1:

Average throughput: 85.54 Mbit/s

95th percentile per-packet one-way delay: 61.876 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-17 16:00:34

End at: 2018-04-17 16:01:04

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.21 Mbit/s

95th percentile per-packet one-way delay: 60.782 ms

Loss rate: 0.00%

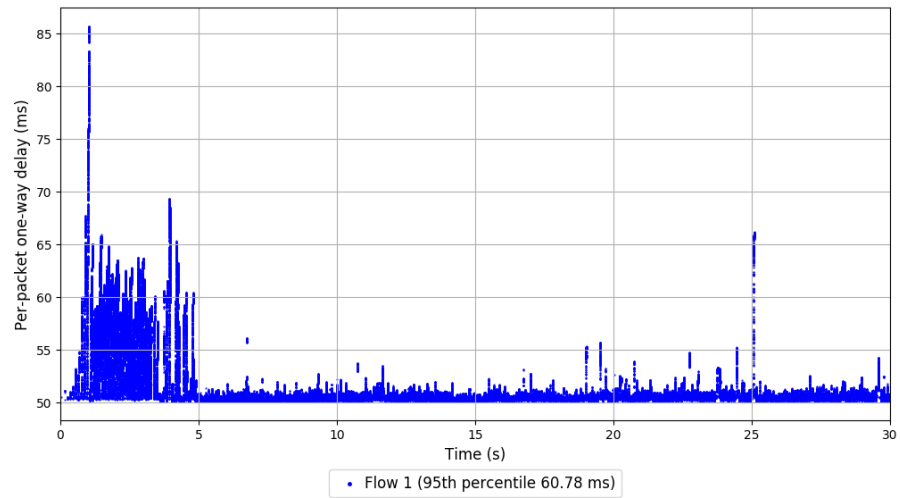
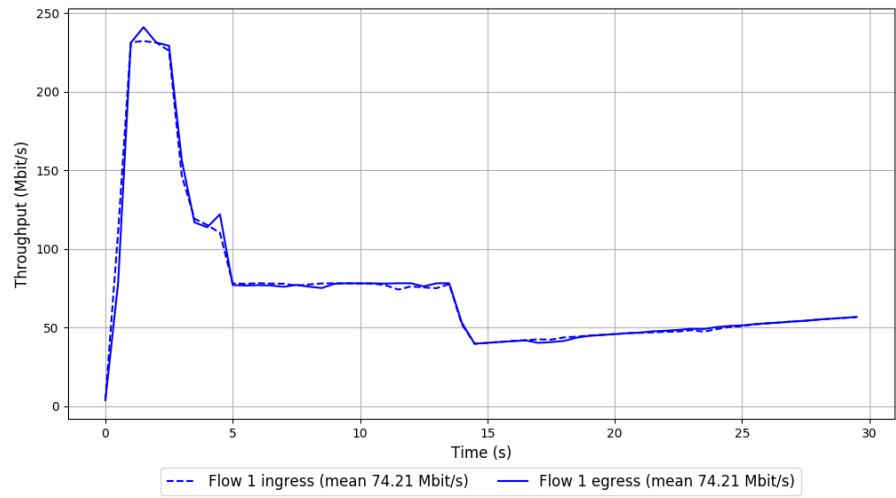
-- Flow 1:

Average throughput: 74.21 Mbit/s

95th percentile per-packet one-way delay: 60.782 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-17 16:13:21

End at: 2018-04-17 16:13:51

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 56.369 ms

Loss rate: 0.00%

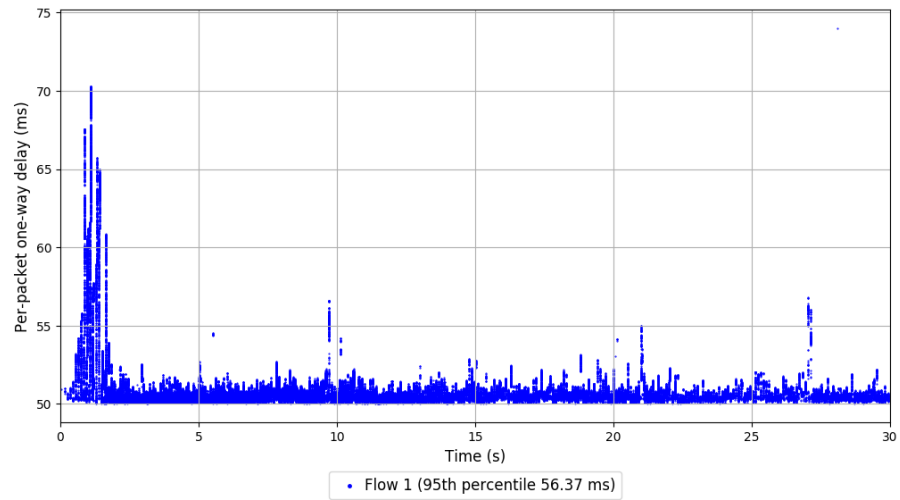
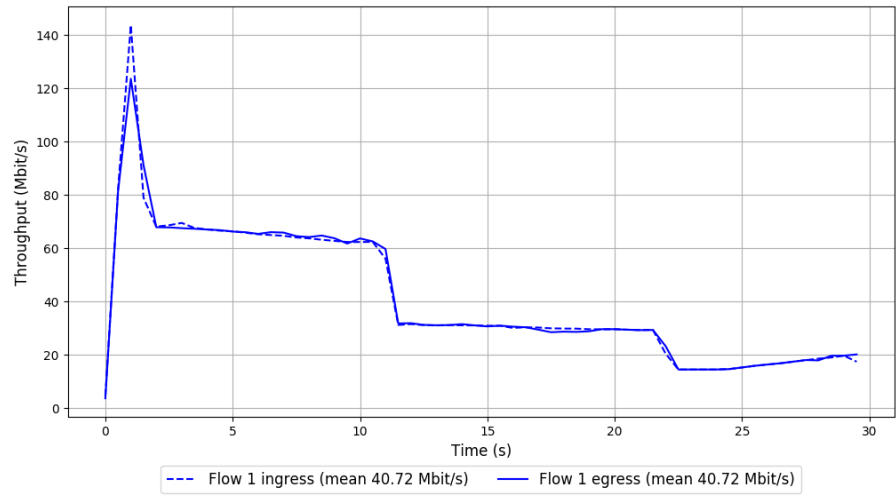
-- Flow 1:

Average throughput: 40.72 Mbit/s

95th percentile per-packet one-way delay: 56.369 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-17 16:25:58

End at: 2018-04-17 16:26:28

Below is generated by plot.py at 2018-04-17 18:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.48 Mbit/s

95th percentile per-packet one-way delay: 52.174 ms

Loss rate: 0.00%

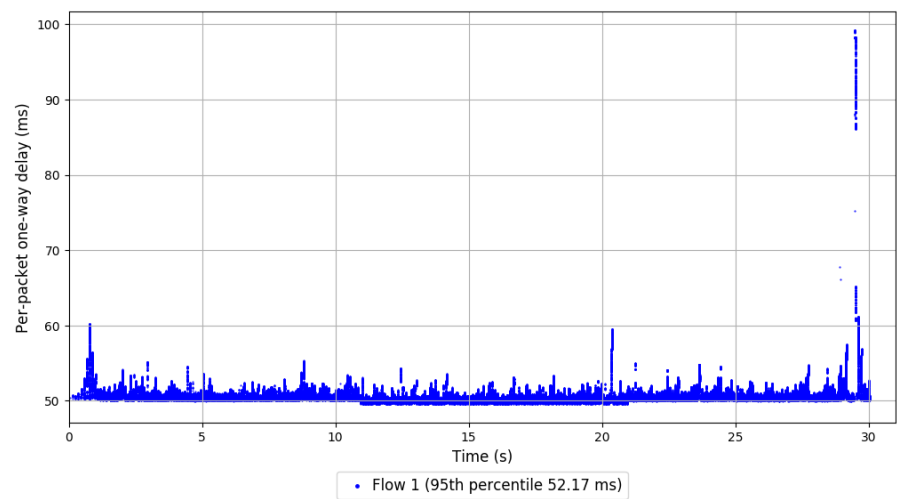
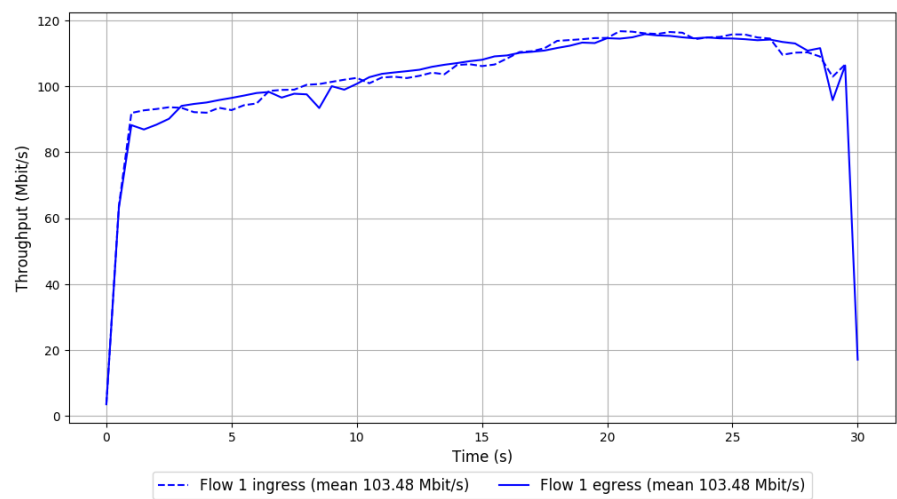
-- Flow 1:

Average throughput: 103.48 Mbit/s

95th percentile per-packet one-way delay: 52.174 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-17 14:30:53

End at: 2018-04-17 14:31:23

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.00 Mbit/s

95th percentile per-packet one-way delay: 214.901 ms

Loss rate: 2.01%

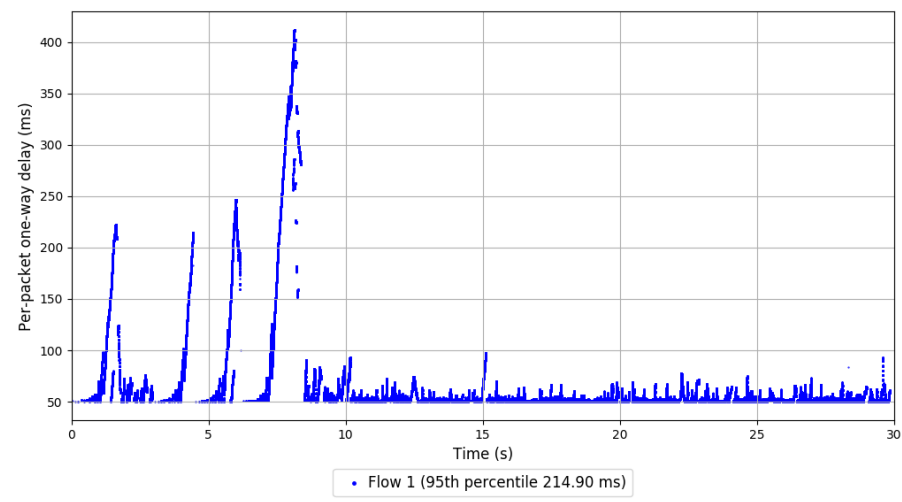
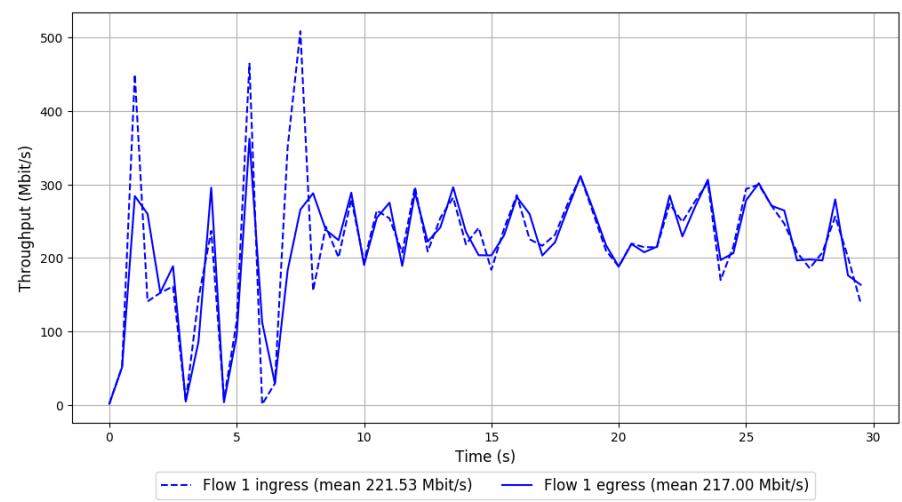
-- Flow 1:

Average throughput: 217.00 Mbit/s

95th percentile per-packet one-way delay: 214.901 ms

Loss rate: 2.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-17 14:43:26

End at: 2018-04-17 14:43:56

Below is generated by plot.py at 2018-04-17 18:18:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.26 Mbit/s

95th percentile per-packet one-way delay: 142.790 ms

Loss rate: 0.00%

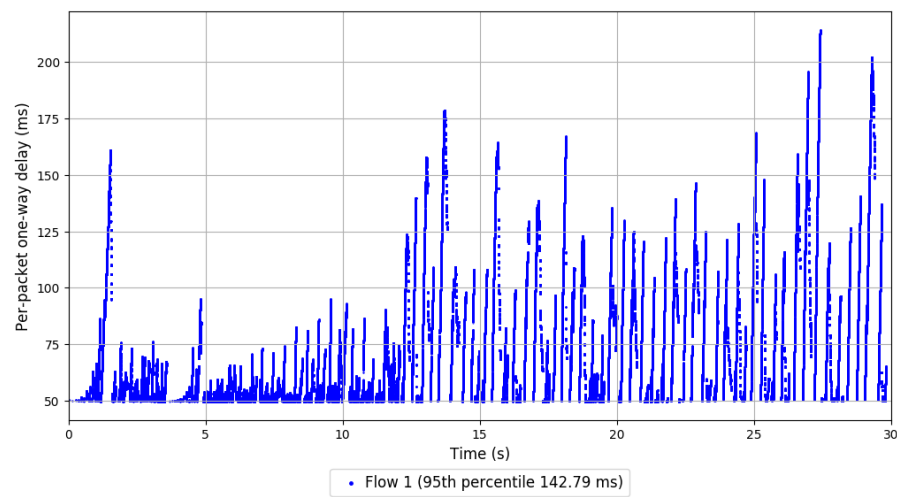
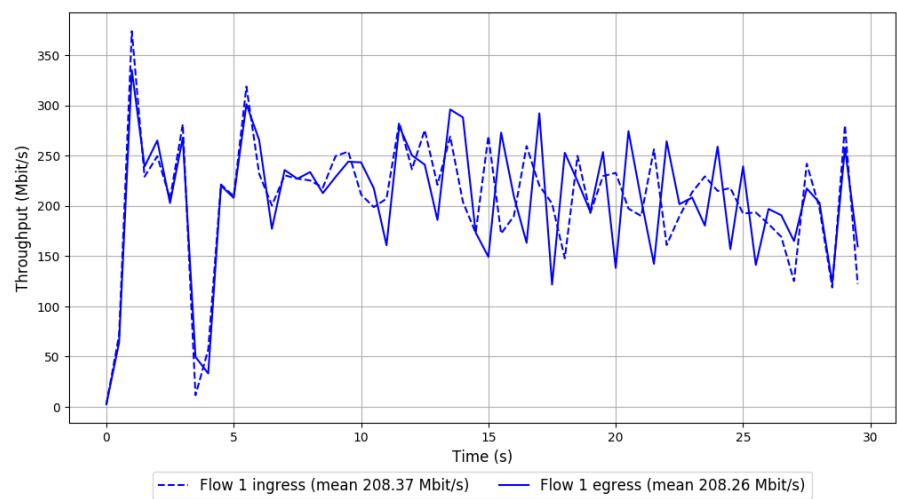
-- Flow 1:

Average throughput: 208.26 Mbit/s

95th percentile per-packet one-way delay: 142.790 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-17 14:55:59

End at: 2018-04-17 14:56:29

Below is generated by plot.py at 2018-04-17 18:18:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.00 Mbit/s

95th percentile per-packet one-way delay: 118.371 ms

Loss rate: 0.01%

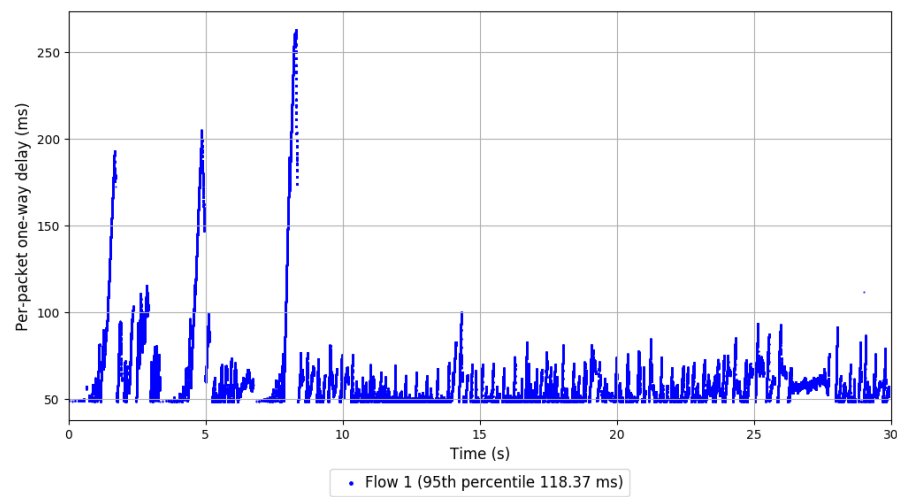
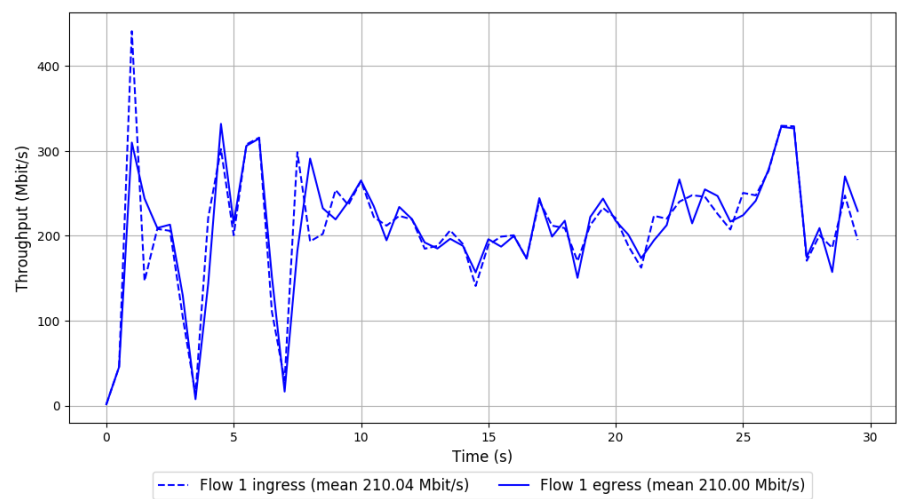
-- Flow 1:

Average throughput: 210.00 Mbit/s

95th percentile per-packet one-way delay: 118.371 ms

Loss rate: 0.01%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-17 15:08:47

End at: 2018-04-17 15:09:17

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.13 Mbit/s

95th percentile per-packet one-way delay: 110.357 ms

Loss rate: 0.17%

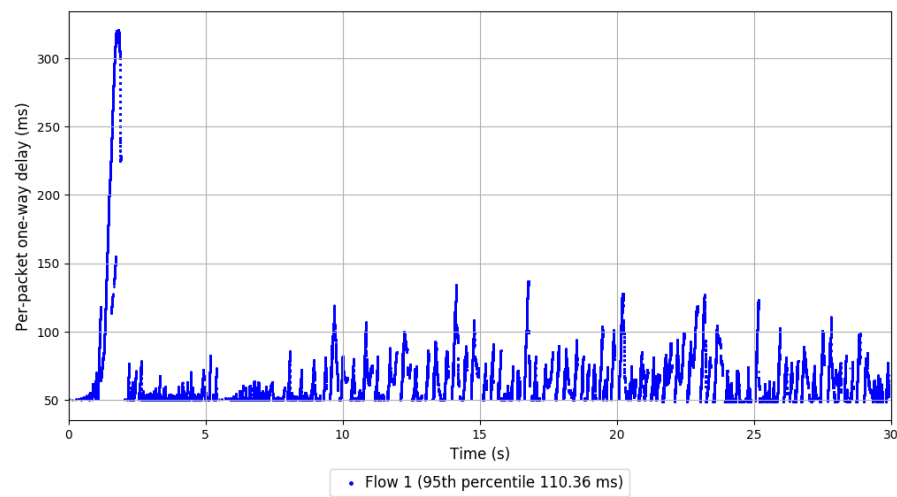
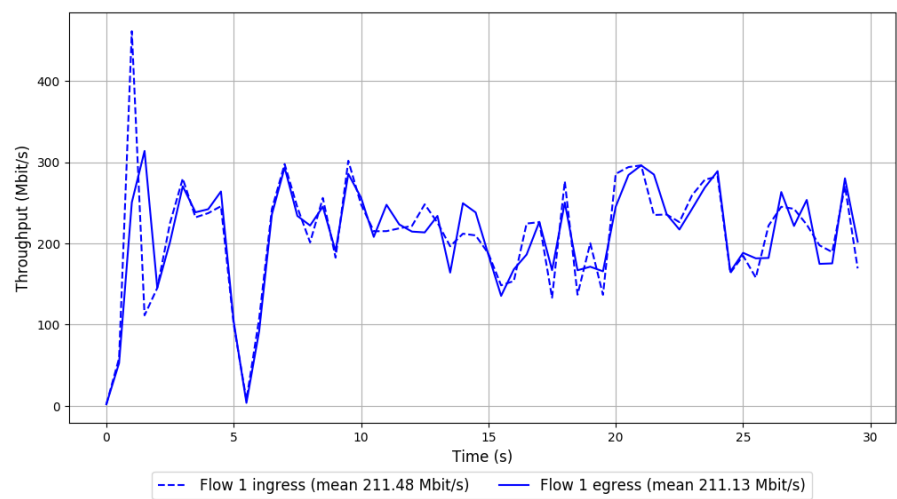
-- Flow 1:

Average throughput: 211.13 Mbit/s

95th percentile per-packet one-way delay: 110.357 ms

Loss rate: 0.17%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-17 15:21:36

End at: 2018-04-17 15:22:06

Below is generated by plot.py at 2018-04-17 18:20:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.53 Mbit/s

95th percentile per-packet one-way delay: 99.054 ms

Loss rate: 0.00%

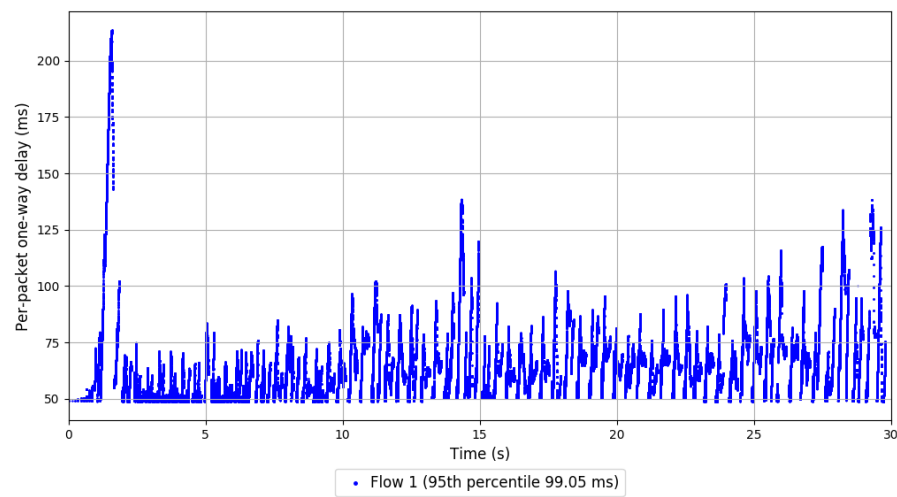
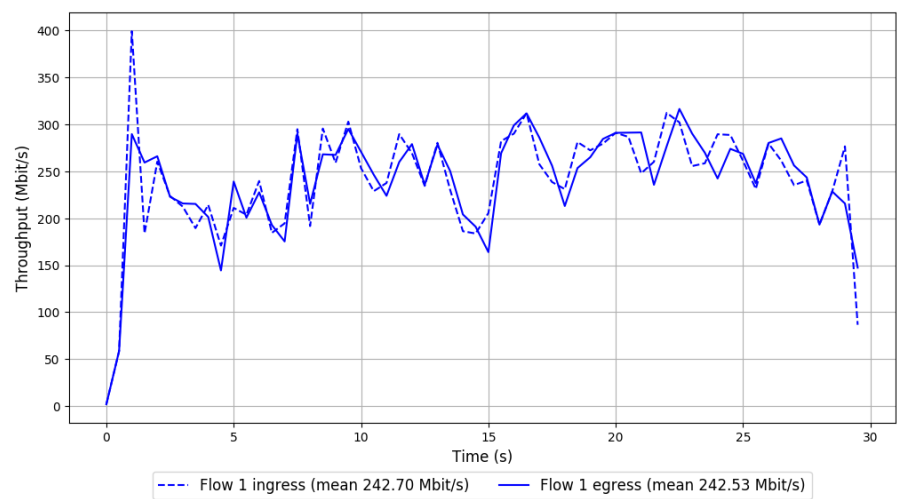
-- Flow 1:

Average throughput: 242.53 Mbit/s

95th percentile per-packet one-way delay: 99.054 ms

Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-17 15:34:17

End at: 2018-04-17 15:34:47

Below is generated by plot.py at 2018-04-17 18:20:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.77 Mbit/s

95th percentile per-packet one-way delay: 155.090 ms

Loss rate: 0.39%

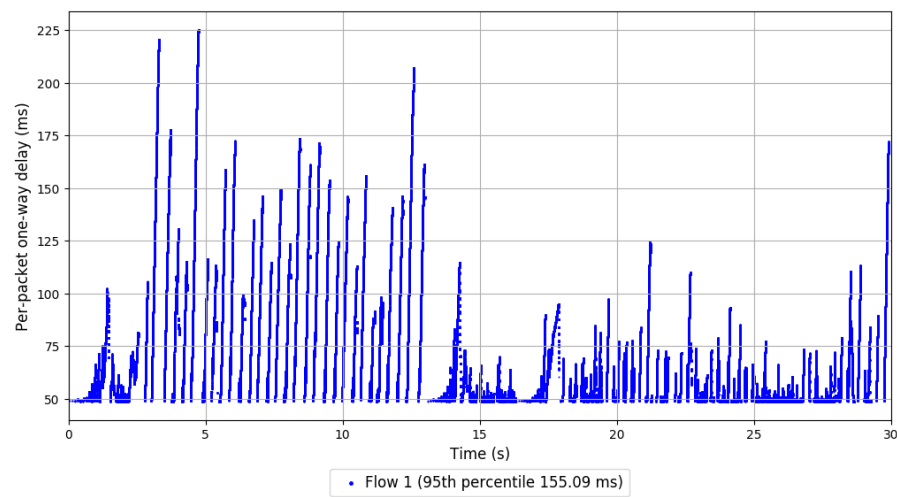
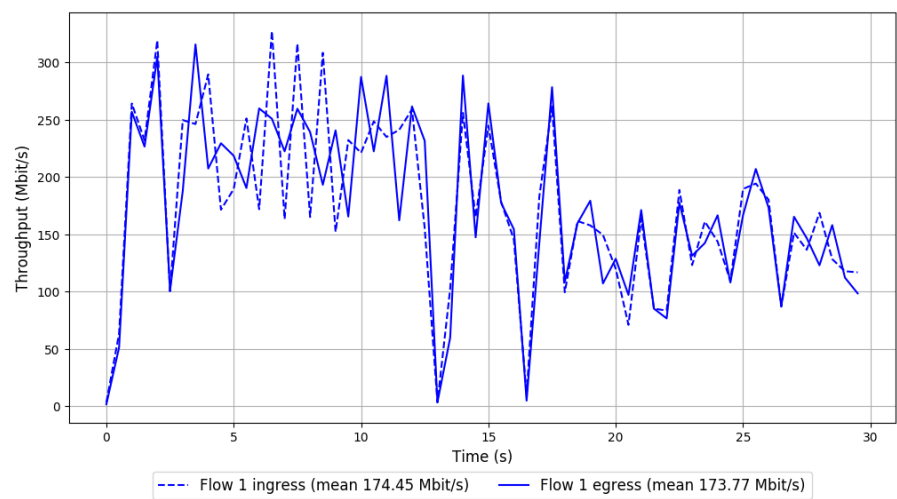
-- Flow 1:

Average throughput: 173.77 Mbit/s

95th percentile per-packet one-way delay: 155.090 ms

Loss rate: 0.39%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-17 15:46:45

End at: 2018-04-17 15:47:15

Below is generated by plot.py at 2018-04-17 18:20:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.58 Mbit/s

95th percentile per-packet one-way delay: 94.840 ms

Loss rate: 0.00%

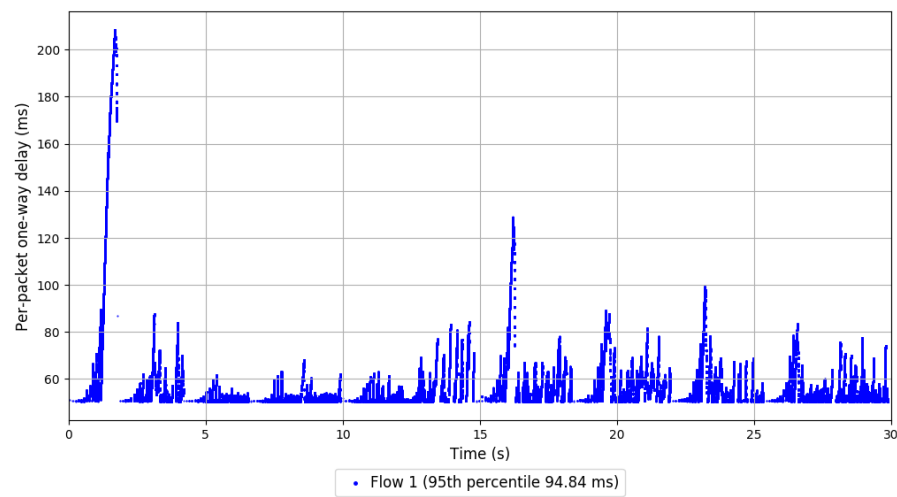
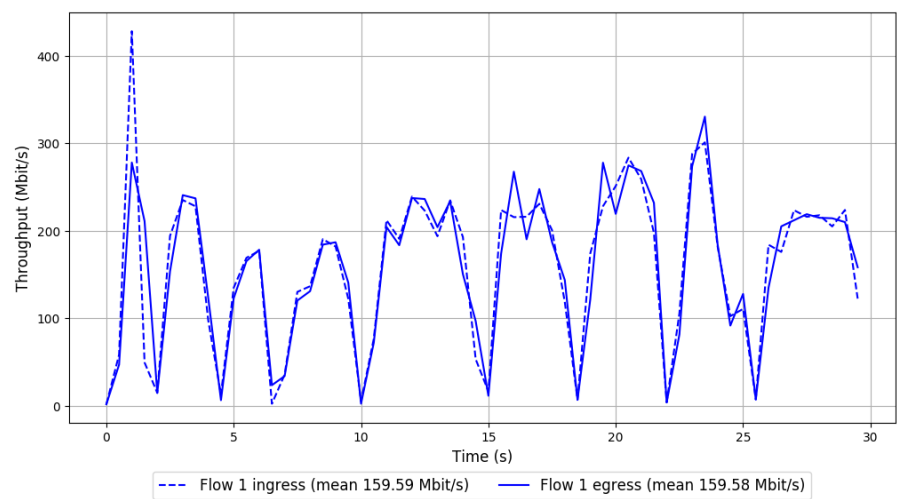
-- Flow 1:

Average throughput: 159.58 Mbit/s

95th percentile per-packet one-way delay: 94.840 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-17 15:59:05

End at: 2018-04-17 15:59:35

Below is generated by plot.py at 2018-04-17 18:21:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.40 Mbit/s

95th percentile per-packet one-way delay: 99.902 ms

Loss rate: 1.06%

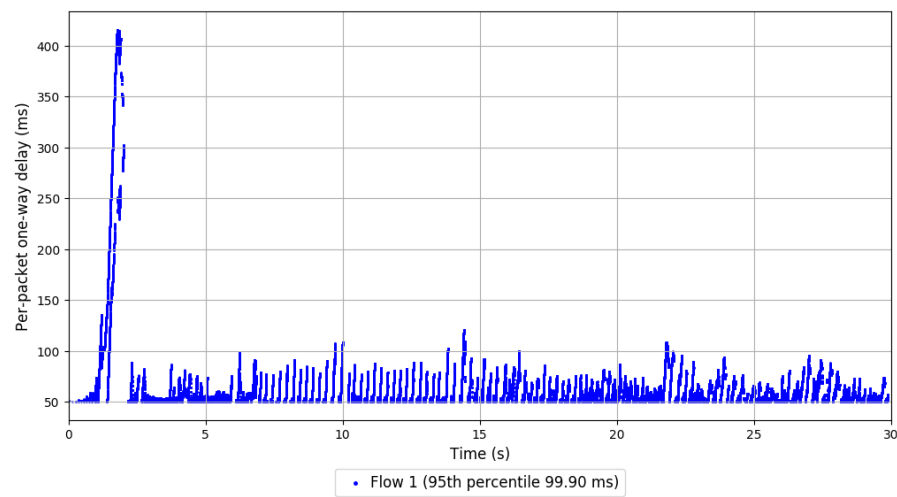
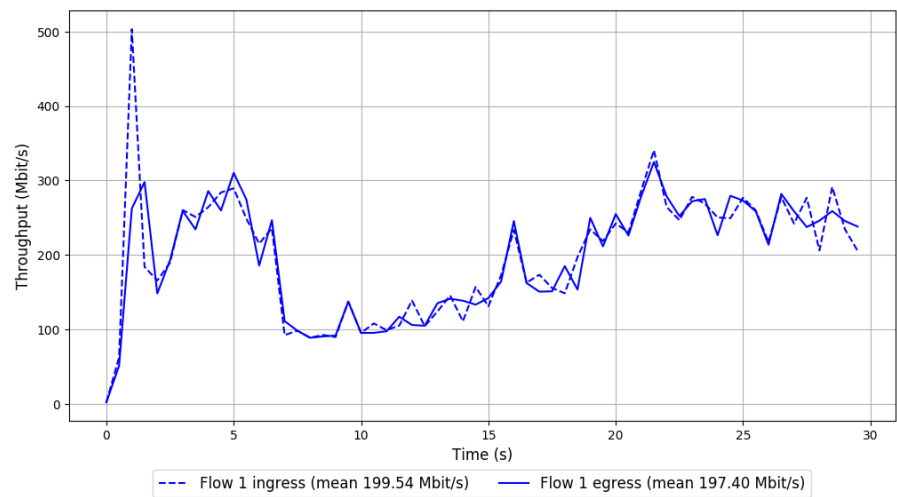
-- Flow 1:

Average throughput: 197.40 Mbit/s

95th percentile per-packet one-way delay: 99.902 ms

Loss rate: 1.06%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-17 16:11:53

End at: 2018-04-17 16:12:23

Below is generated by plot.py at 2018-04-17 18:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.24 Mbit/s

95th percentile per-packet one-way delay: 116.273 ms

Loss rate: 0.64%

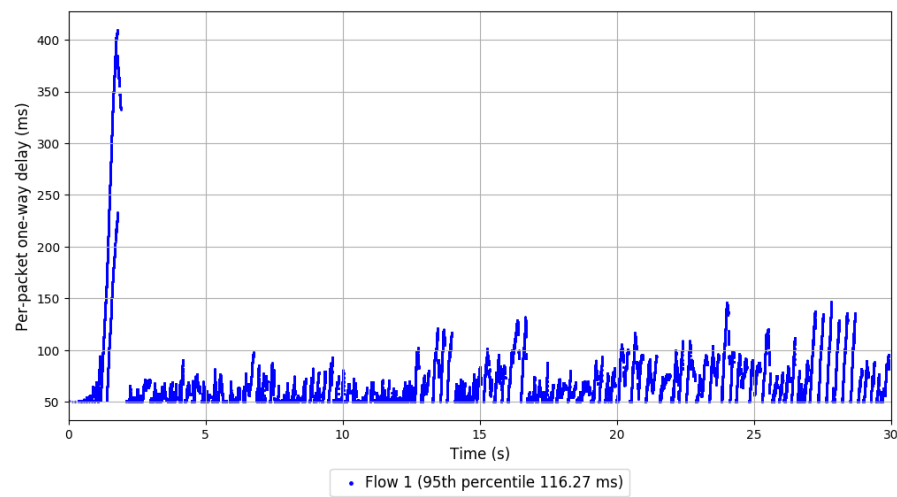
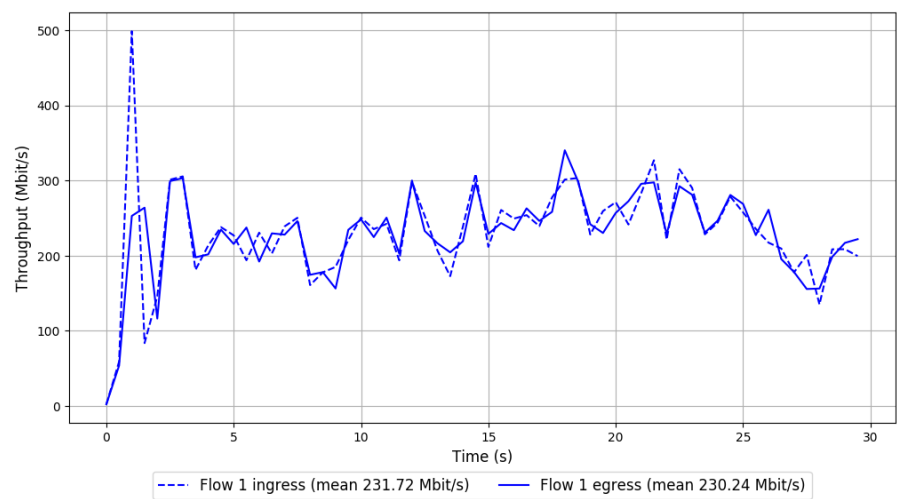
-- Flow 1:

Average throughput: 230.24 Mbit/s

95th percentile per-packet one-way delay: 116.273 ms

Loss rate: 0.64%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-17 16:24:28

End at: 2018-04-17 16:24:58

Below is generated by plot.py at 2018-04-17 18:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.08 Mbit/s

95th percentile per-packet one-way delay: 97.893 ms

Loss rate: 0.42%

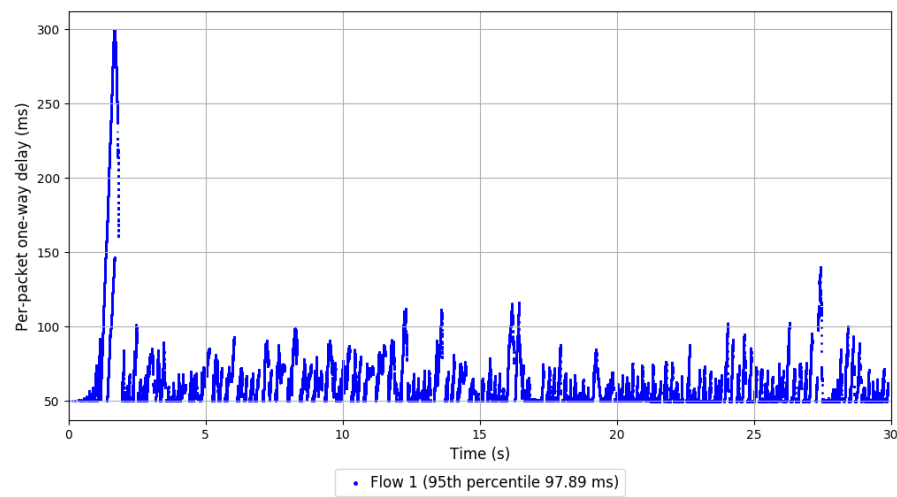
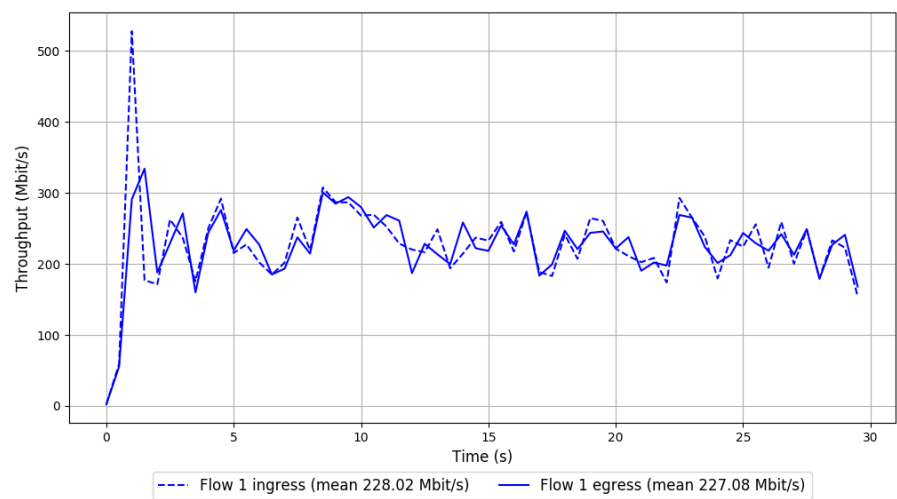
-- Flow 1:

Average throughput: 227.08 Mbit/s

95th percentile per-packet one-way delay: 97.893 ms

Loss rate: 0.42%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-17 14:28:45

End at: 2018-04-17 14:29:15

Below is generated by plot.py at 2018-04-17 18:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 0.01%

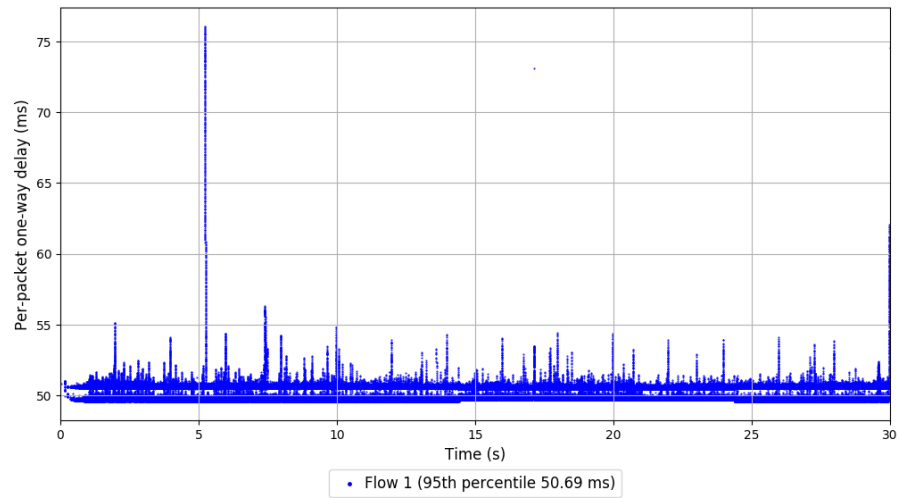
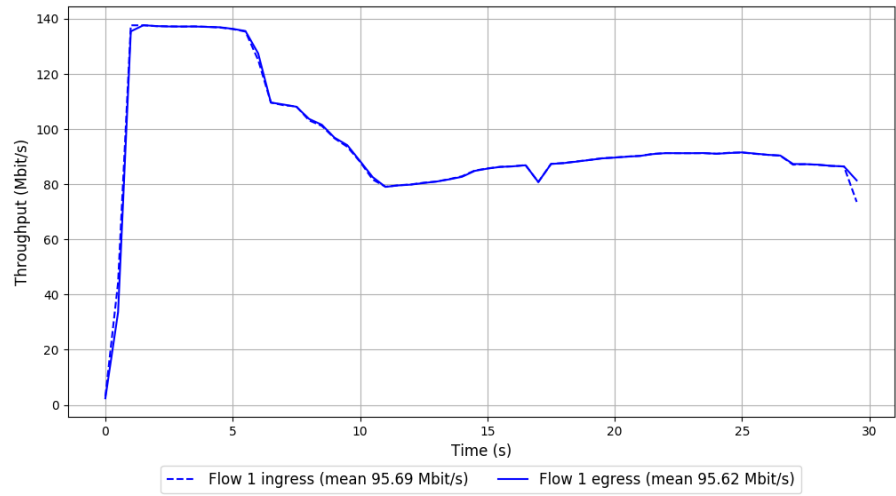
-- Flow 1:

Average throughput: 95.62 Mbit/s

95th percentile per-packet one-way delay: 50.687 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-17 14:41:18

End at: 2018-04-17 14:41:48

Below is generated by plot.py at 2018-04-17 18:22:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.06 Mbit/s

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

Loss rate: 0.00%

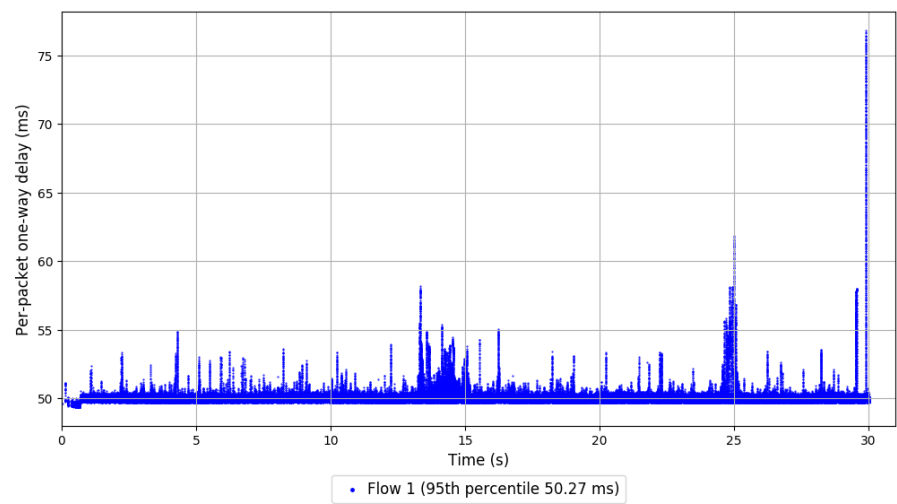
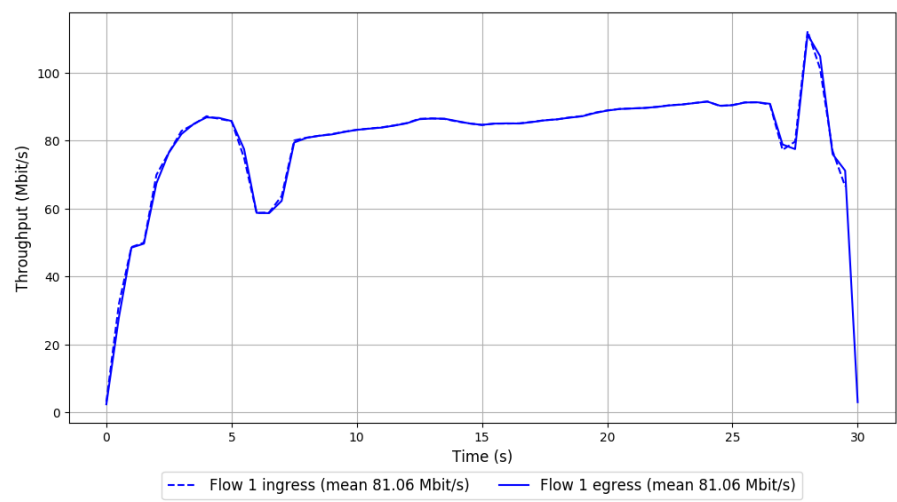
-- Flow 1:

Average throughput: 81.06 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-17 14:53:50

End at: 2018-04-17 14:54:20

Below is generated by plot.py at 2018-04-17 18:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 49.575 ms

Loss rate: 0.00%

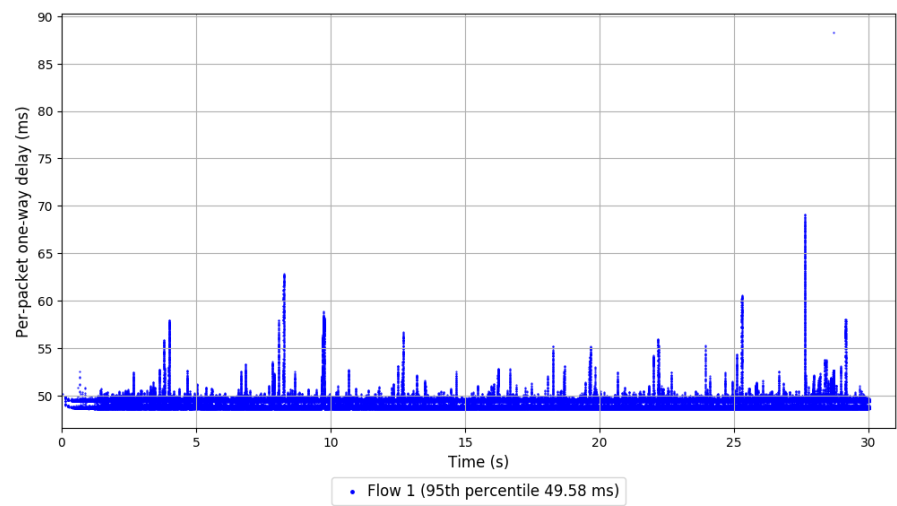
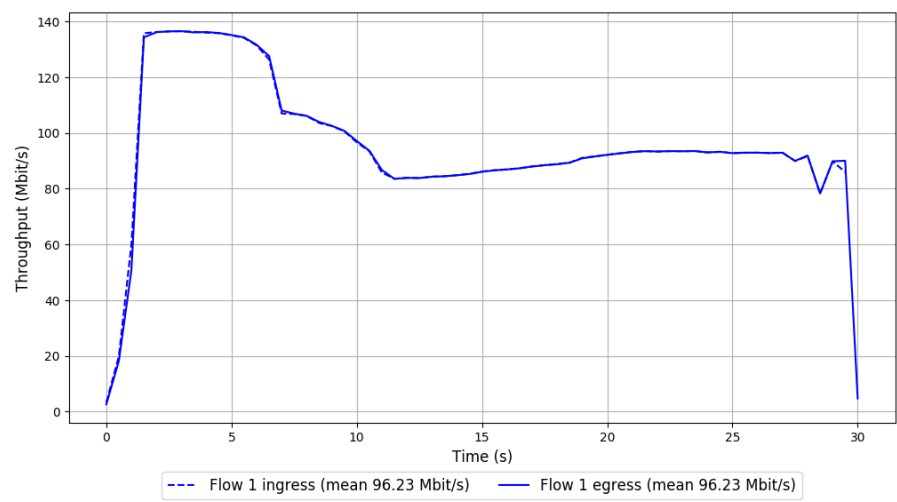
-- Flow 1:

Average throughput: 96.23 Mbit/s

95th percentile per-packet one-way delay: 49.575 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-17 15:06:39

End at: 2018-04-17 15:07:09

Below is generated by plot.py at 2018-04-17 18:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 50.138 ms

Loss rate: 0.01%

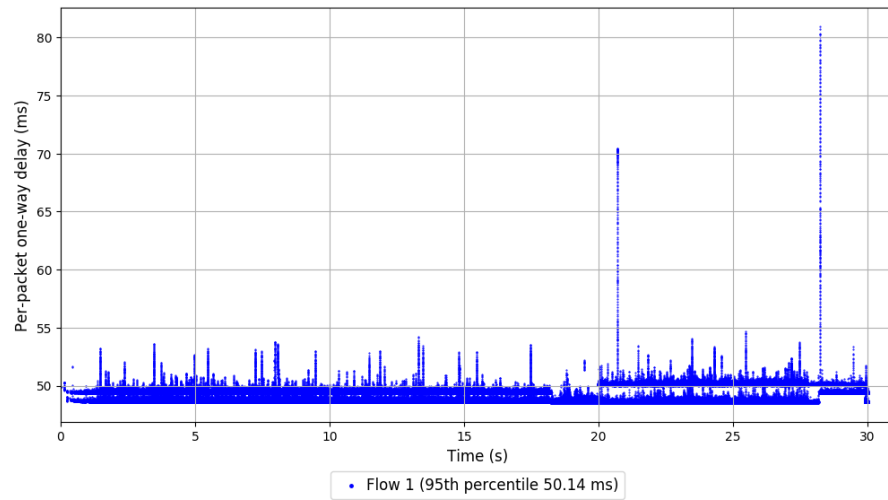
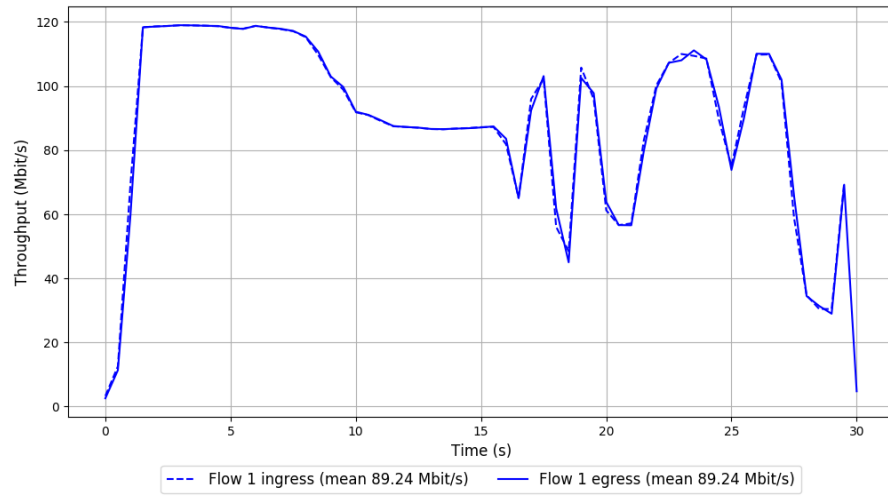
-- Flow 1:

Average throughput: 89.24 Mbit/s

95th percentile per-packet one-way delay: 50.138 ms

Loss rate: 0.01%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-17 15:19:29

End at: 2018-04-17 15:19:59

Below is generated by plot.py at 2018-04-17 18:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 48.894 ms

Loss rate: 0.00%

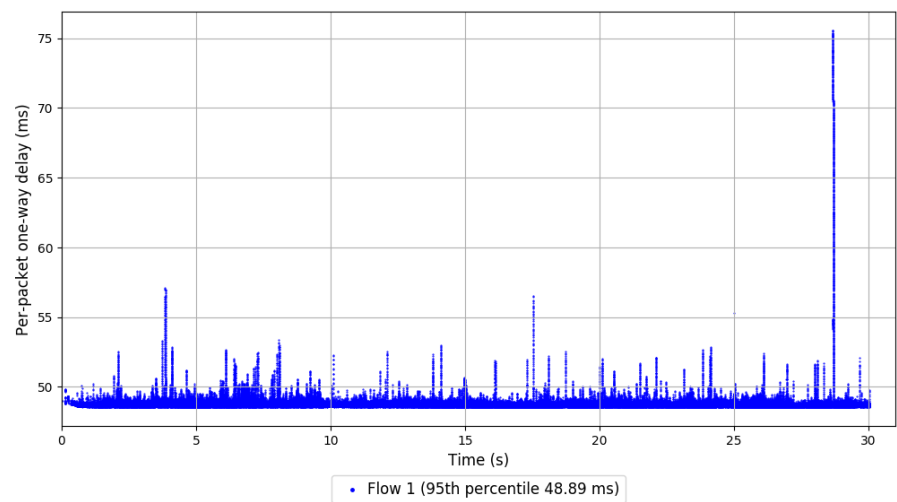
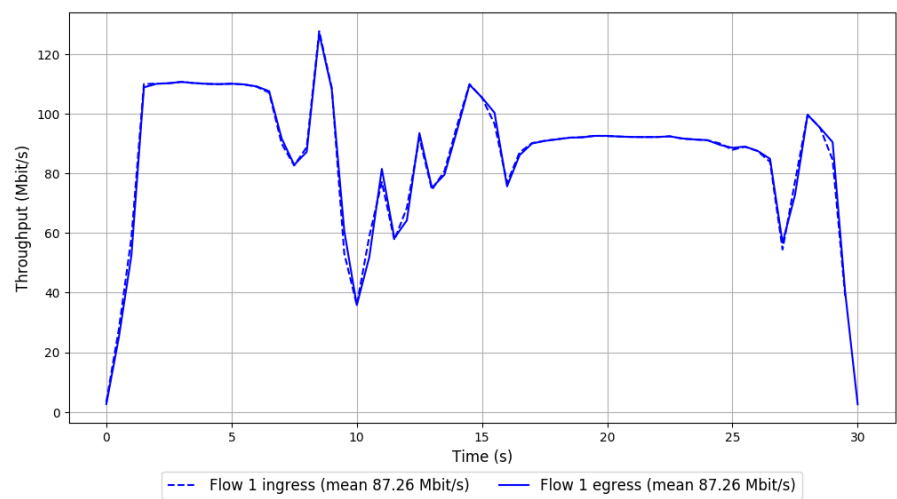
-- Flow 1:

Average throughput: 87.26 Mbit/s

95th percentile per-packet one-way delay: 48.894 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-17 15:32:10

End at: 2018-04-17 15:32:40

Below is generated by plot.py at 2018-04-17 18:23:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.00%

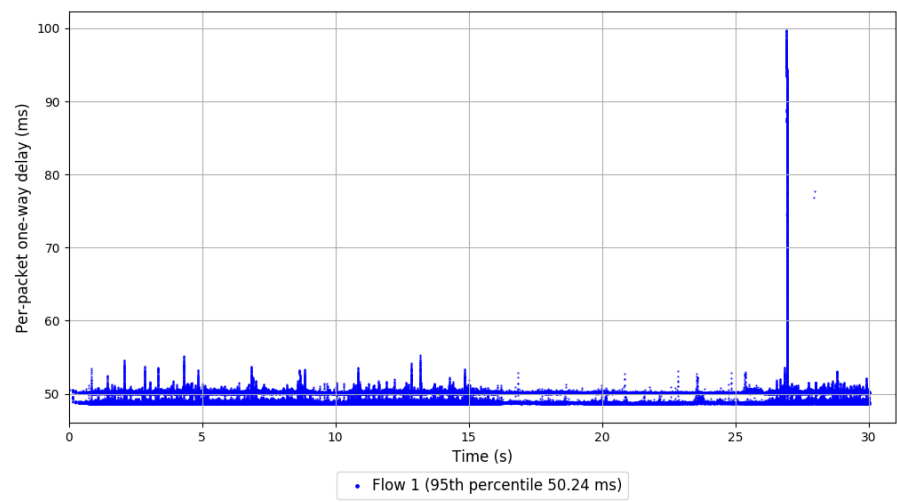
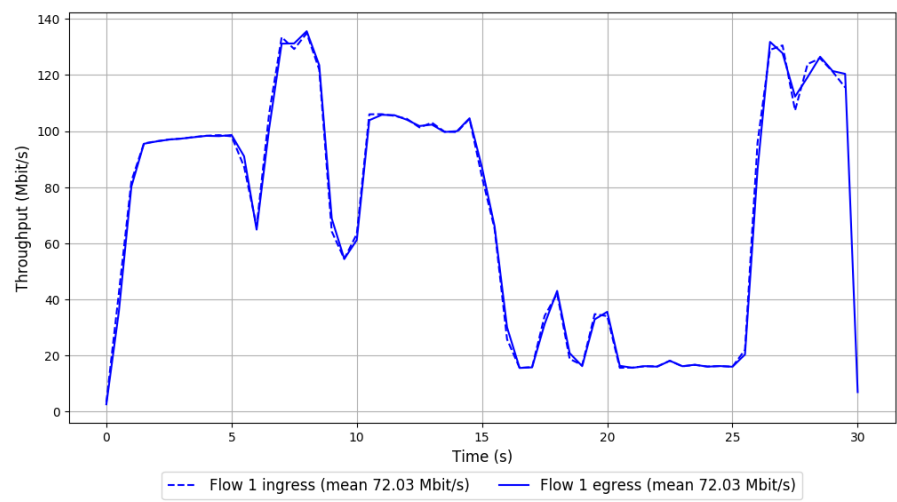
-- Flow 1:

Average throughput: 72.03 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-17 15:44:37

End at: 2018-04-17 15:45:07

Below is generated by plot.py at 2018-04-17 18:24:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.57 Mbit/s

95th percentile per-packet one-way delay: 50.435 ms

Loss rate: 0.00%

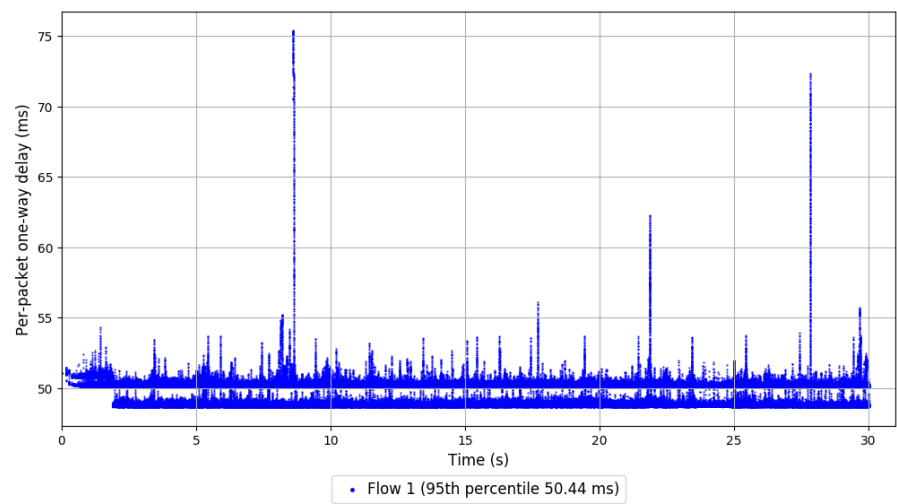
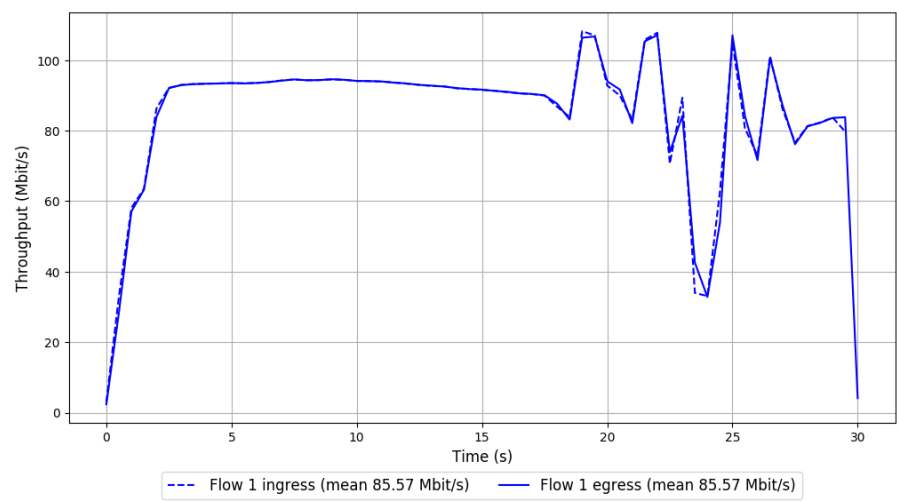
-- Flow 1:

Average throughput: 85.57 Mbit/s

95th percentile per-packet one-way delay: 50.435 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-17 15:56:57

End at: 2018-04-17 15:57:27

Below is generated by plot.py at 2018-04-17 18:24:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 50.357 ms

Loss rate: 0.00%

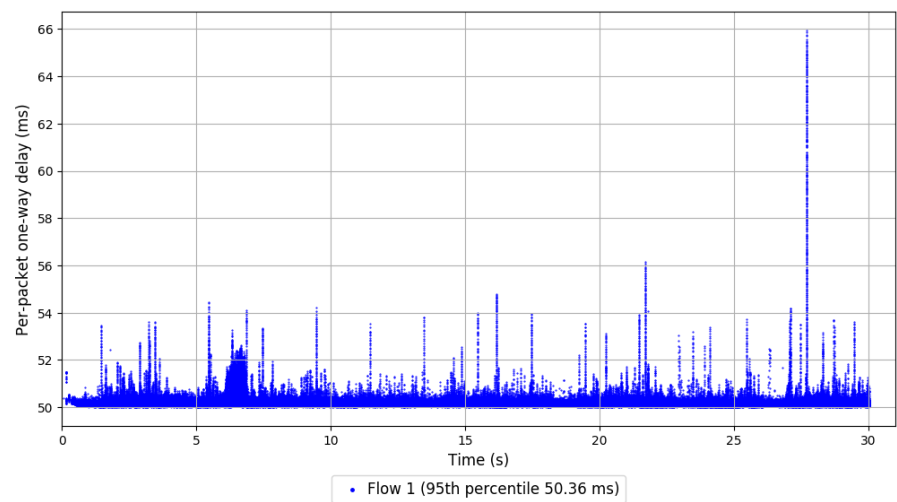
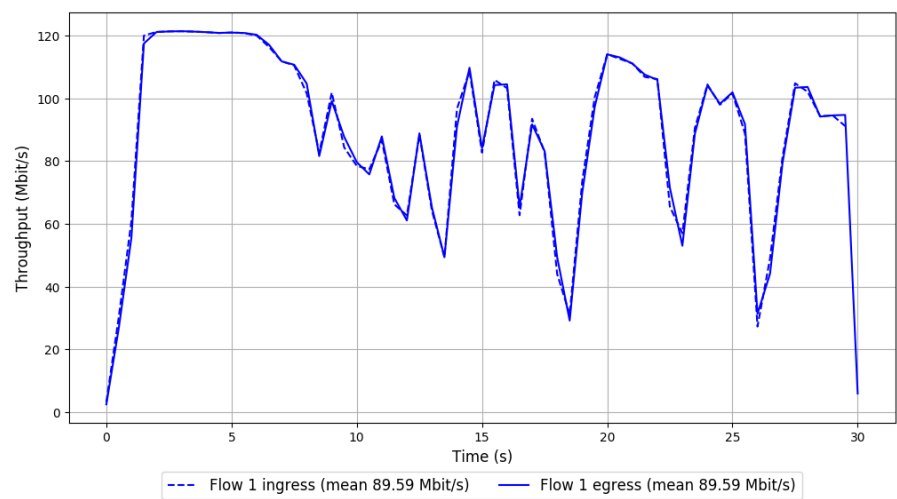
-- Flow 1:

Average throughput: 89.59 Mbit/s

95th percentile per-packet one-way delay: 50.357 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-17 16:09:45

End at: 2018-04-17 16:10:15

Below is generated by plot.py at 2018-04-17 18:24:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.30 Mbit/s

95th percentile per-packet one-way delay: 50.723 ms

Loss rate: 0.00%

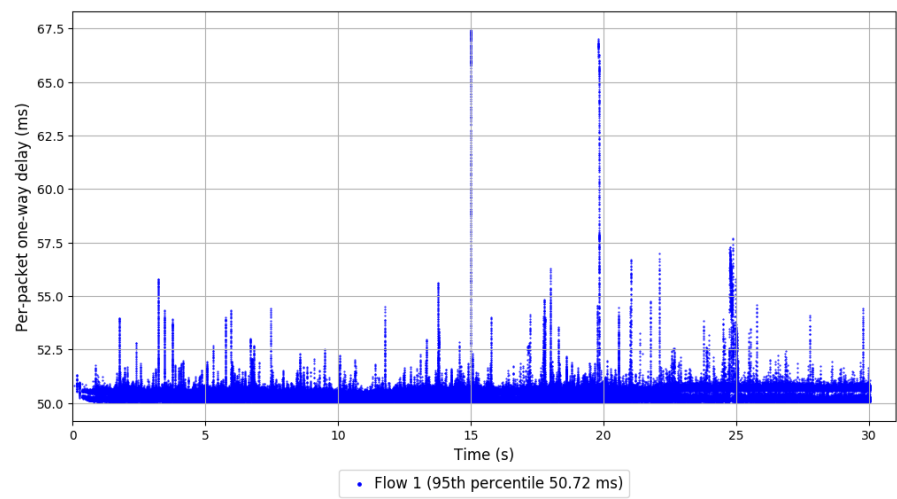
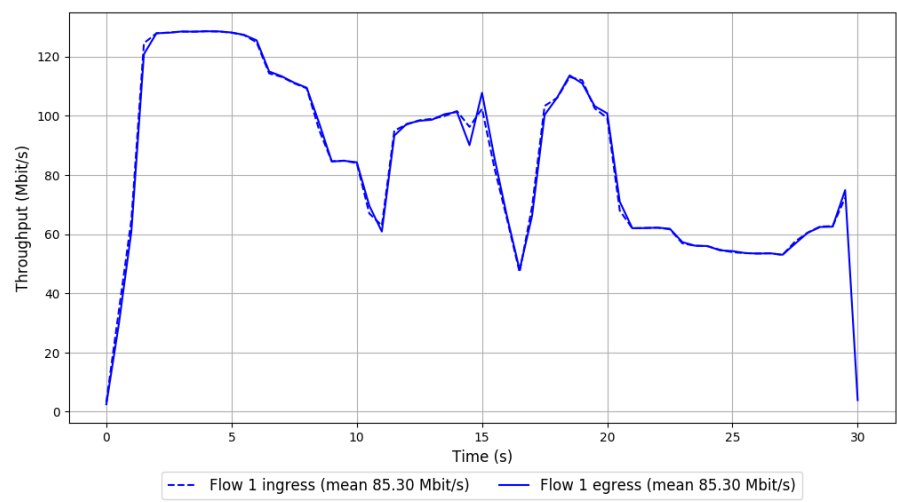
-- Flow 1:

Average throughput: 85.30 Mbit/s

95th percentile per-packet one-way delay: 50.723 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-17 16:22:21

End at: 2018-04-17 16:22:51

Below is generated by plot.py at 2018-04-17 18:24:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.00%

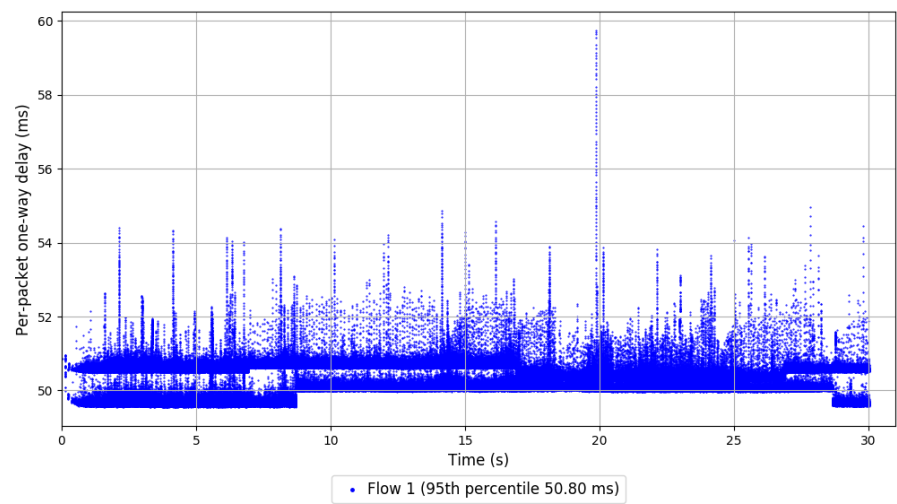
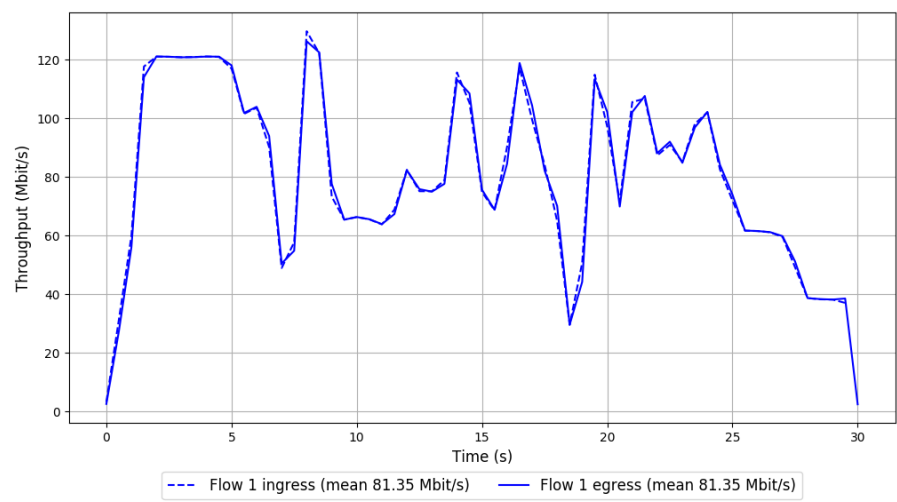
-- Flow 1:

Average throughput: 81.35 Mbit/s

95th percentile per-packet one-way delay: 50.797 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-17 14:33:54

End at: 2018-04-17 14:34:24

Below is generated by plot.py at 2018-04-17 18:26:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.88 Mbit/s

95th percentile per-packet one-way delay: 272.131 ms

Loss rate: 7.89%

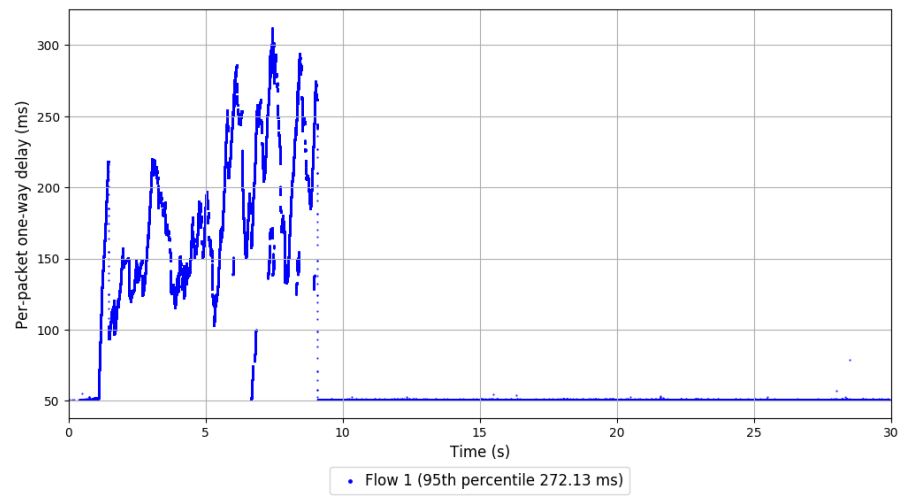
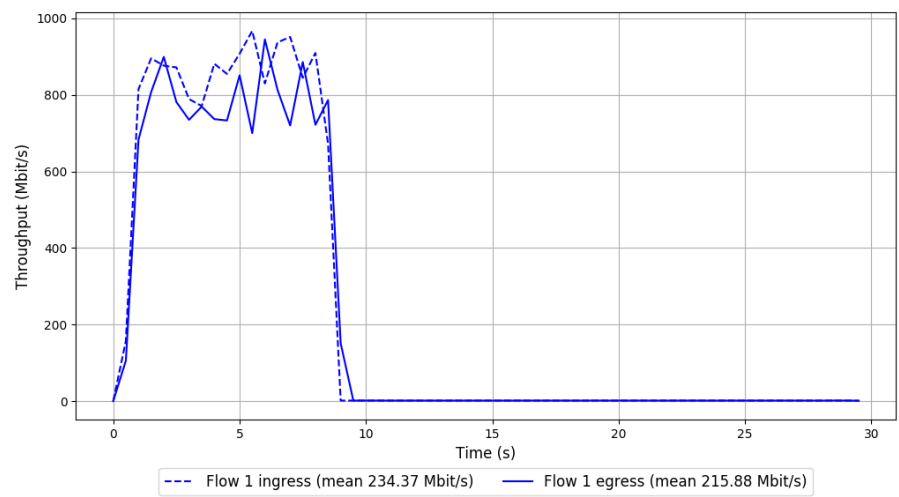
-- Flow 1:

Average throughput: 215.88 Mbit/s

95th percentile per-packet one-way delay: 272.131 ms

Loss rate: 7.89%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-17 14:46:23

End at: 2018-04-17 14:46:53

Below is generated by plot.py at 2018-04-17 18:27:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 226.71 Mbit/s

95th percentile per-packet one-way delay: 301.725 ms

Loss rate: 7.17%

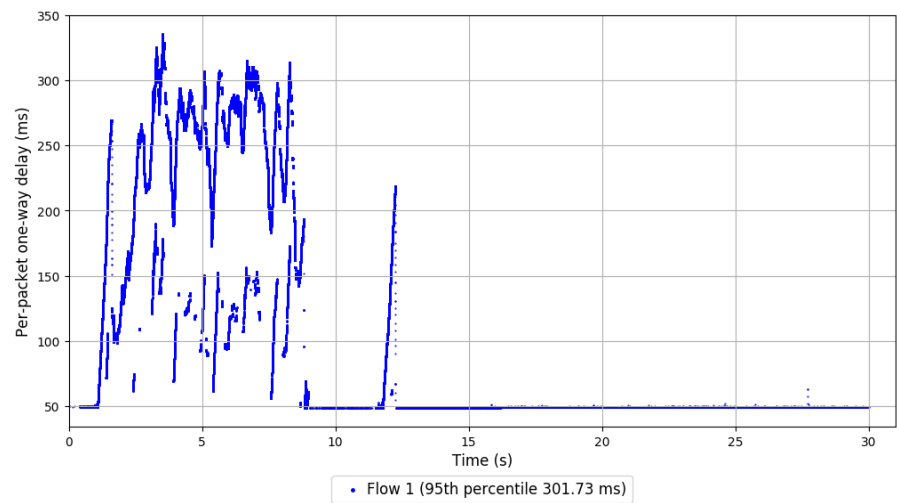
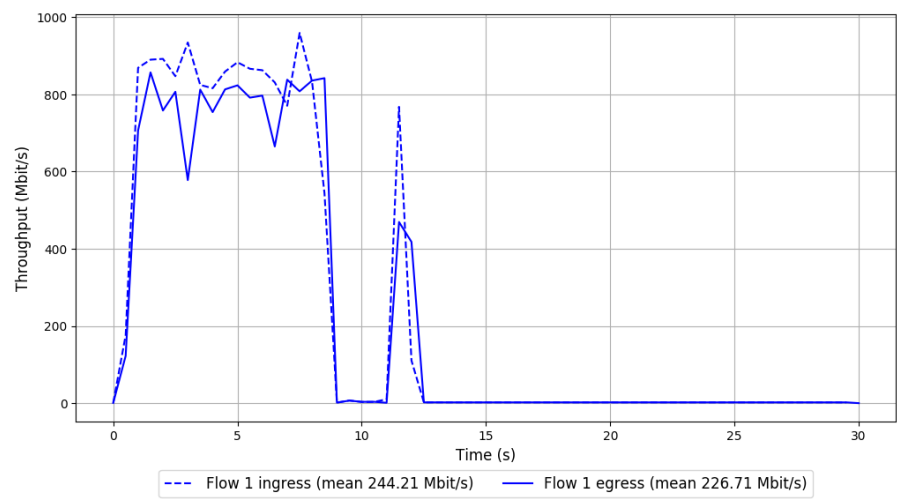
-- Flow 1:

Average throughput: 226.71 Mbit/s

95th percentile per-packet one-way delay: 301.725 ms

Loss rate: 7.17%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-17 14:58:57

End at: 2018-04-17 14:59:27

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 748.59 Mbit/s

95th percentile per-packet one-way delay: 298.551 ms

Loss rate: 9.49%

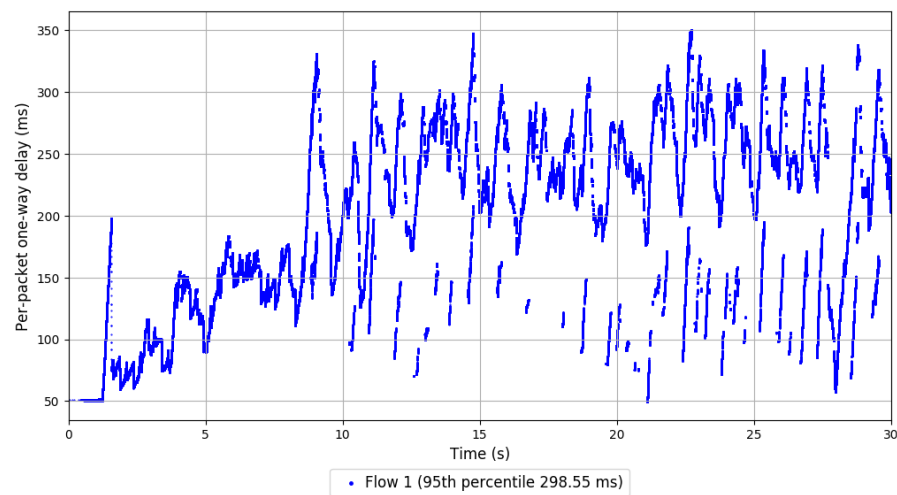
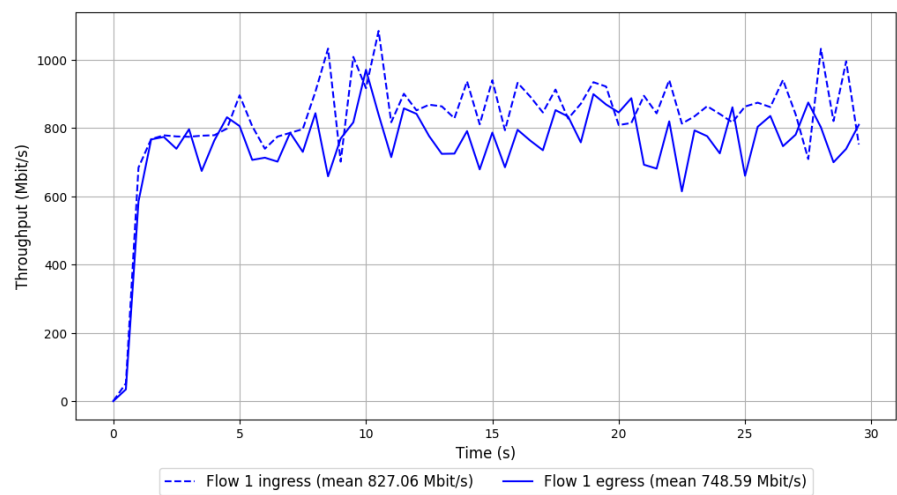
-- Flow 1:

Average throughput: 748.59 Mbit/s

95th percentile per-packet one-way delay: 298.551 ms

Loss rate: 9.49%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-17 15:11:47

End at: 2018-04-17 15:12:17

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 682.81 Mbit/s

95th percentile per-packet one-way delay: 305.681 ms

Loss rate: 7.65%

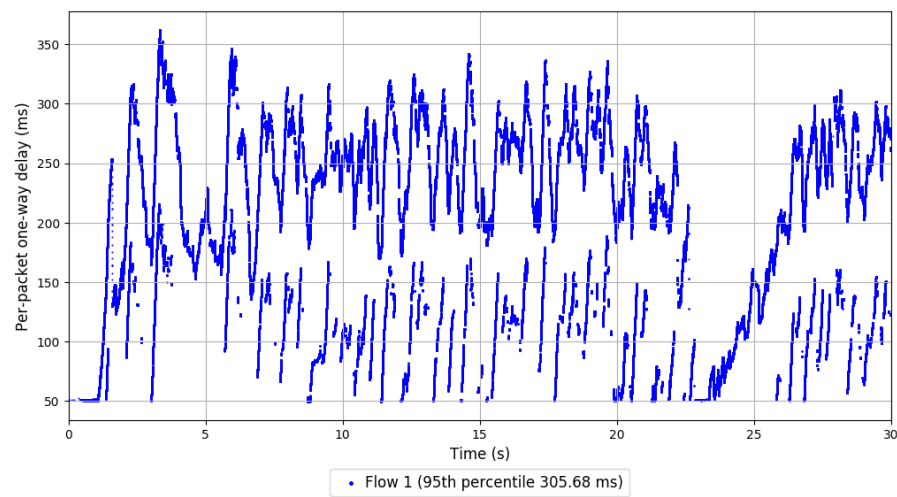
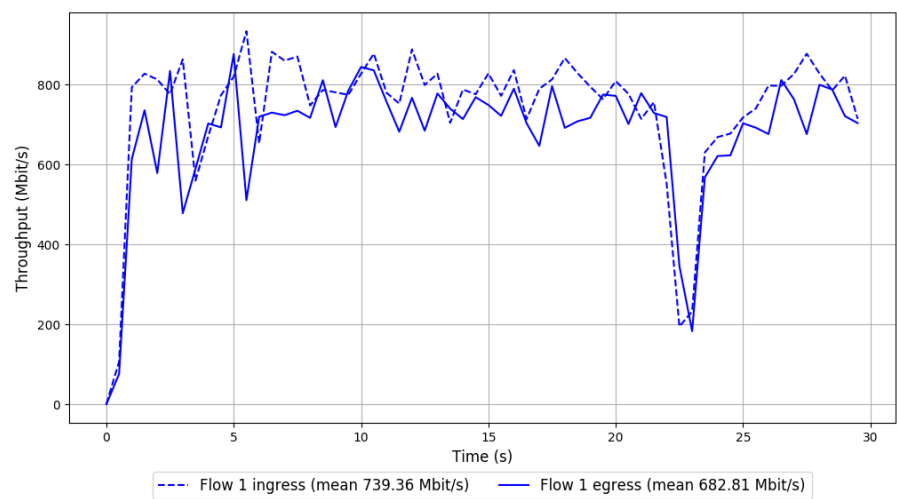
-- Flow 1:

Average throughput: 682.81 Mbit/s

95th percentile per-packet one-way delay: 305.681 ms

Loss rate: 7.65%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-17 15:24:34

End at: 2018-04-17 15:25:04

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.78 Mbit/s

95th percentile per-packet one-way delay: 322.030 ms

Loss rate: 10.94%

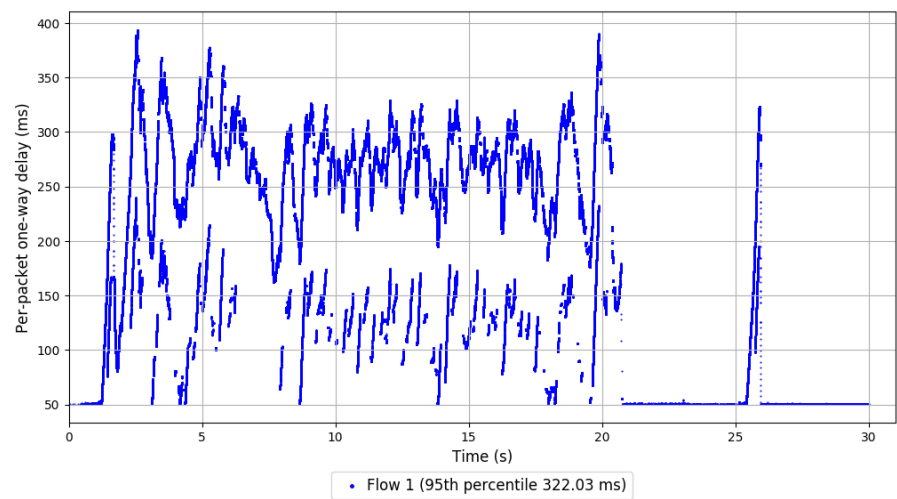
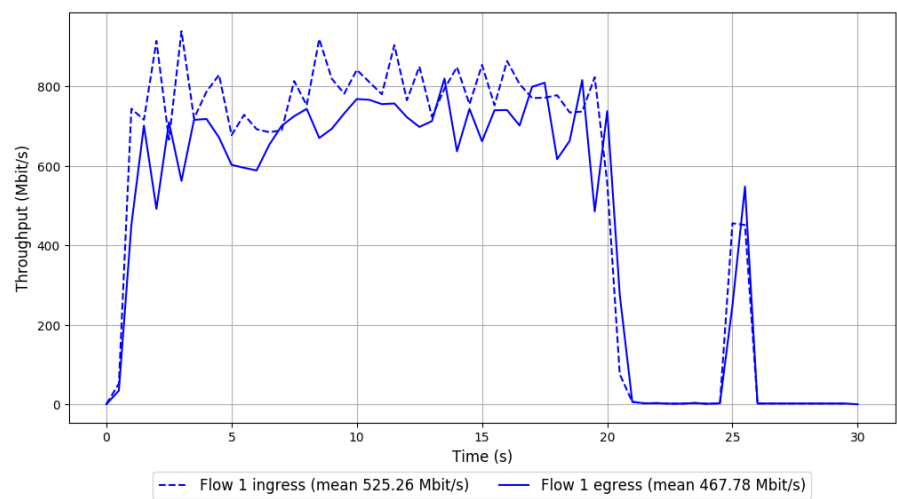
-- Flow 1:

Average throughput: 467.78 Mbit/s

95th percentile per-packet one-way delay: 322.030 ms

Loss rate: 10.94%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-17 15:37:17

End at: 2018-04-17 15:37:47

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 116.84 Mbit/s

95th percentile per-packet one-way delay: 351.179 ms

Loss rate: 18.85%

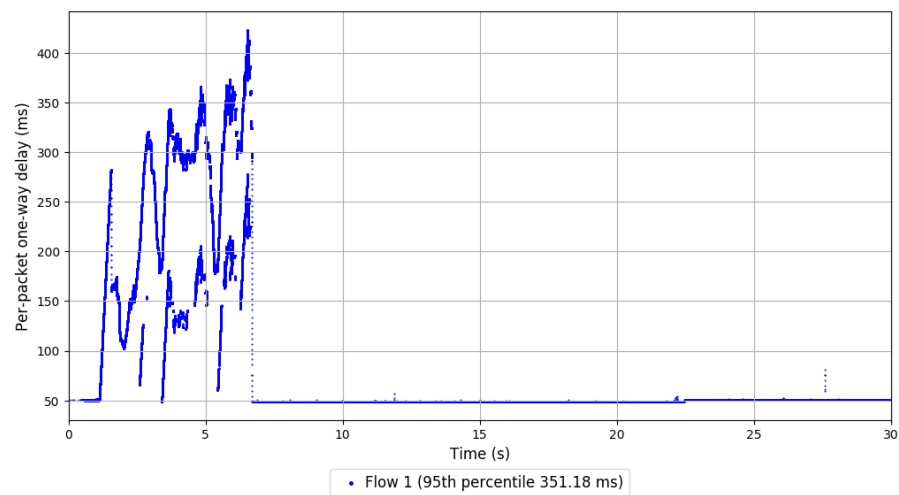
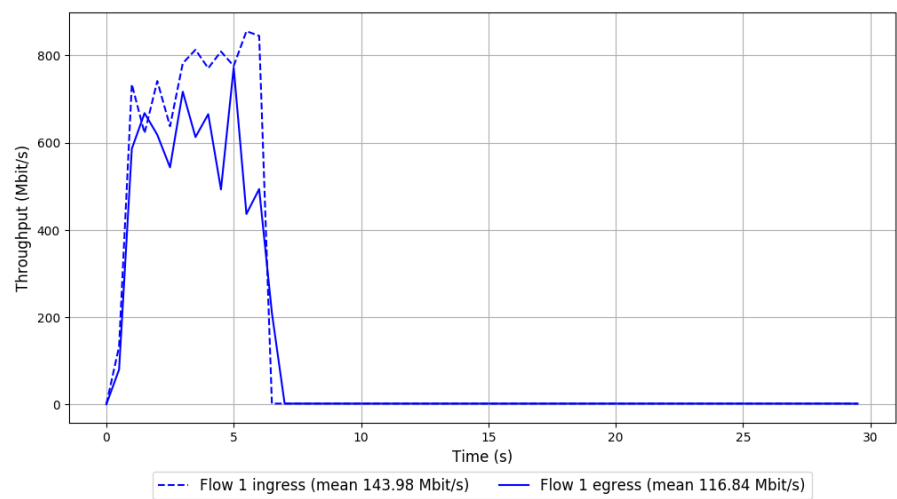
-- Flow 1:

Average throughput: 116.84 Mbit/s

95th percentile per-packet one-way delay: 351.179 ms

Loss rate: 18.85%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-17 15:49:40

End at: 2018-04-17 15:50:10

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.45 Mbit/s

95th percentile per-packet one-way delay: 317.036 ms

Loss rate: 10.70%

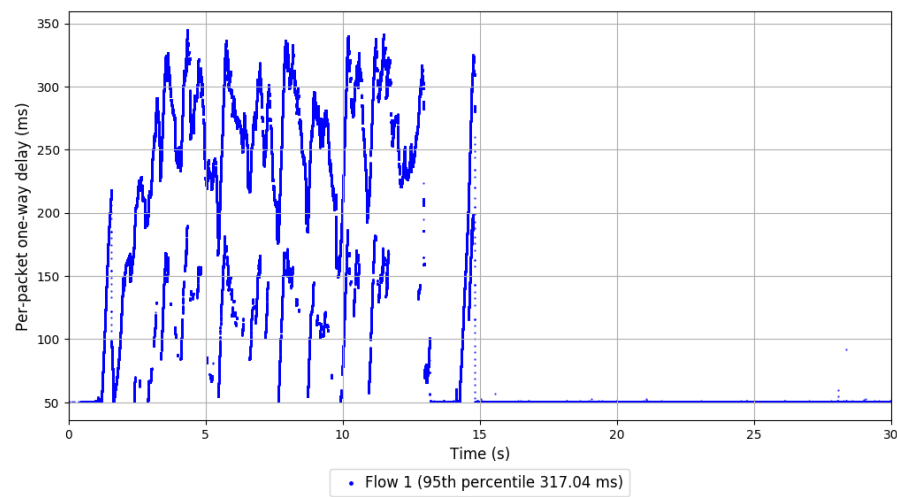
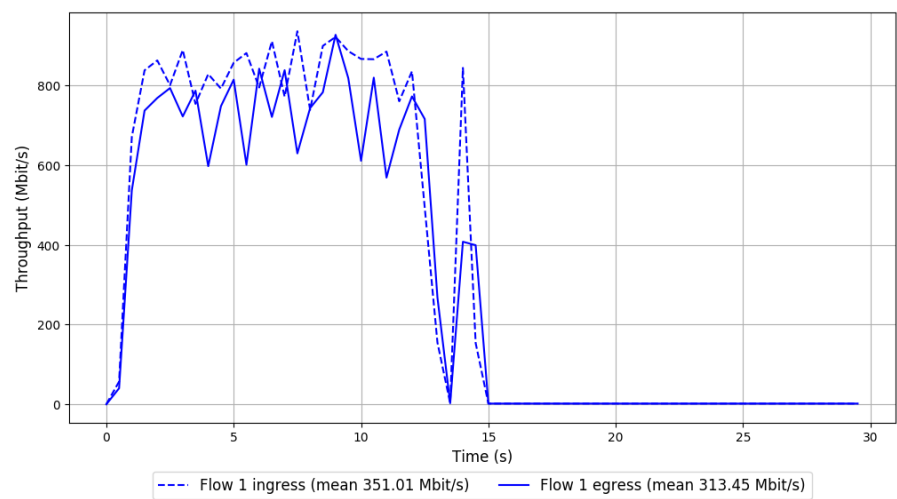
-- Flow 1:

Average throughput: 313.45 Mbit/s

95th percentile per-packet one-way delay: 317.036 ms

Loss rate: 10.70%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-17 16:02:16

End at: 2018-04-17 16:02:46

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.24 Mbit/s

95th percentile per-packet one-way delay: 302.353 ms

Loss rate: 12.31%

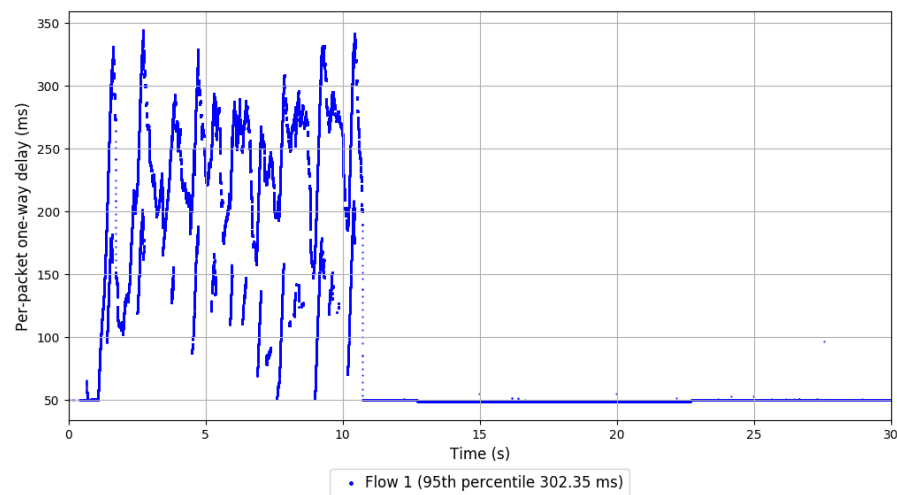
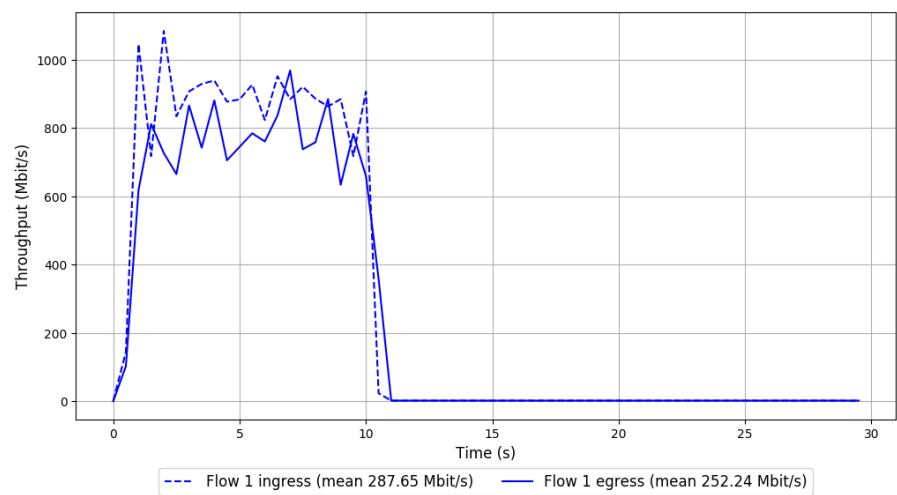
-- Flow 1:

Average throughput: 252.24 Mbit/s

95th percentile per-packet one-way delay: 302.353 ms

Loss rate: 12.31%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-17 16:14:50

End at: 2018-04-17 16:15:20

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.24 Mbit/s

95th percentile per-packet one-way delay: 318.548 ms

Loss rate: 11.59%

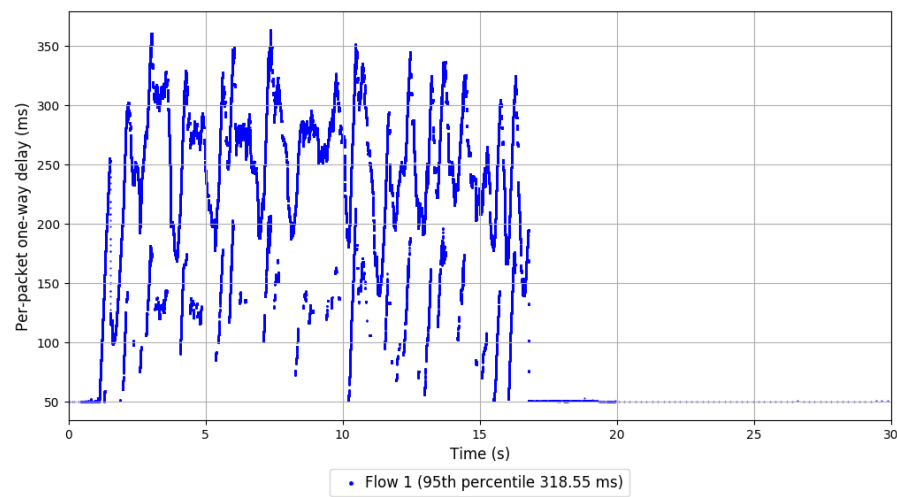
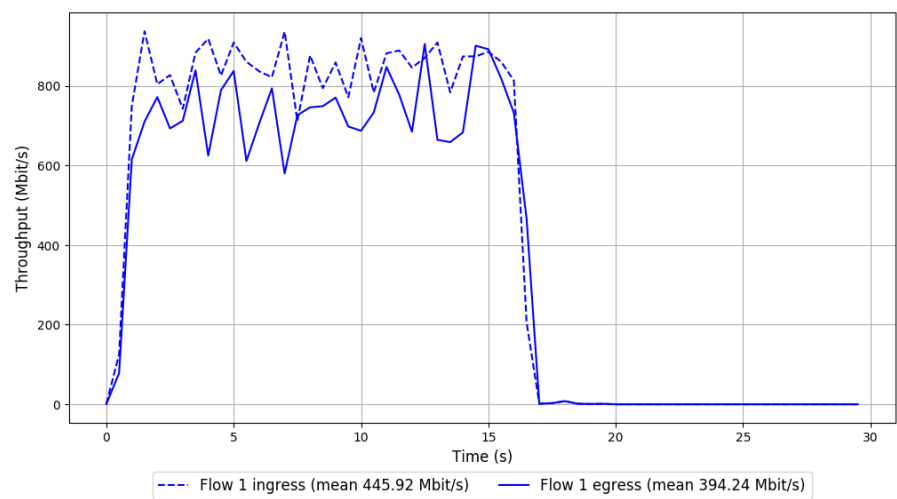
-- Flow 1:

Average throughput: 394.24 Mbit/s

95th percentile per-packet one-way delay: 318.548 ms

Loss rate: 11.59%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-17 16:27:30

End at: 2018-04-17 16:28:00

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.60 Mbit/s

95th percentile per-packet one-way delay: 321.520 ms

Loss rate: 13.87%

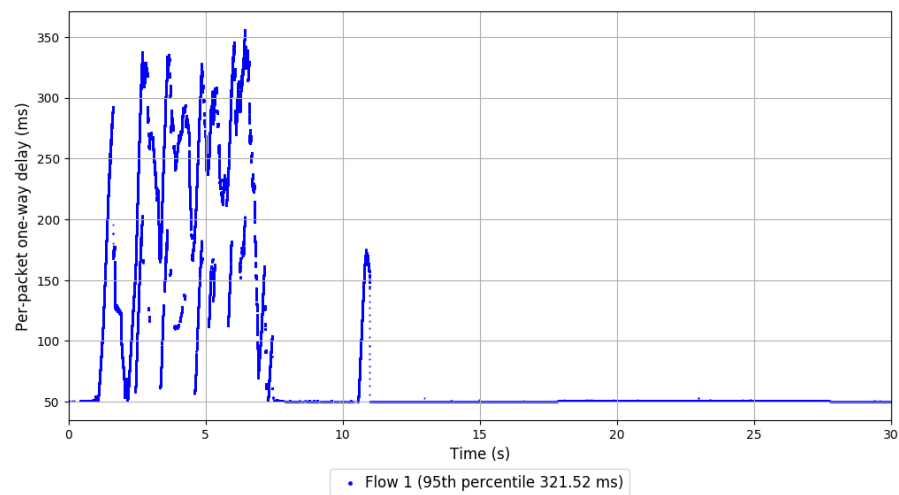
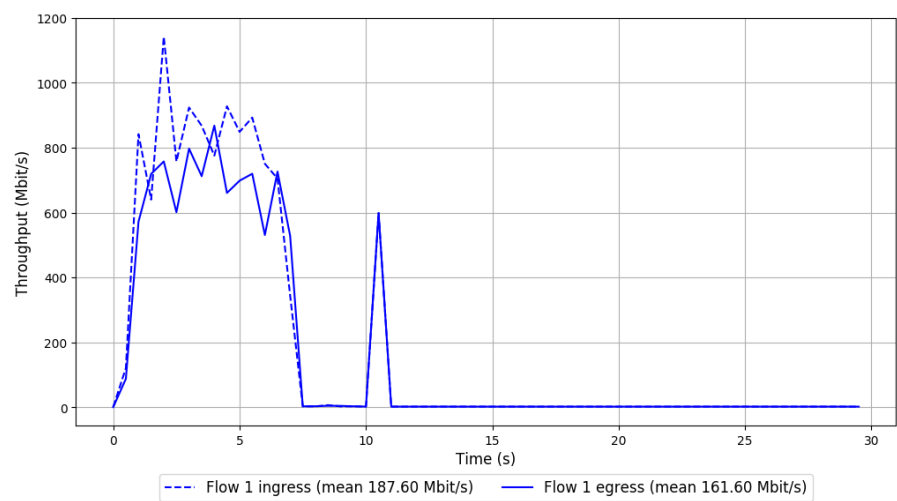
-- Flow 1:

Average throughput: 161.60 Mbit/s

95th percentile per-packet one-way delay: 321.520 ms

Loss rate: 13.87%

Run 10: Report of FillP — Data Link

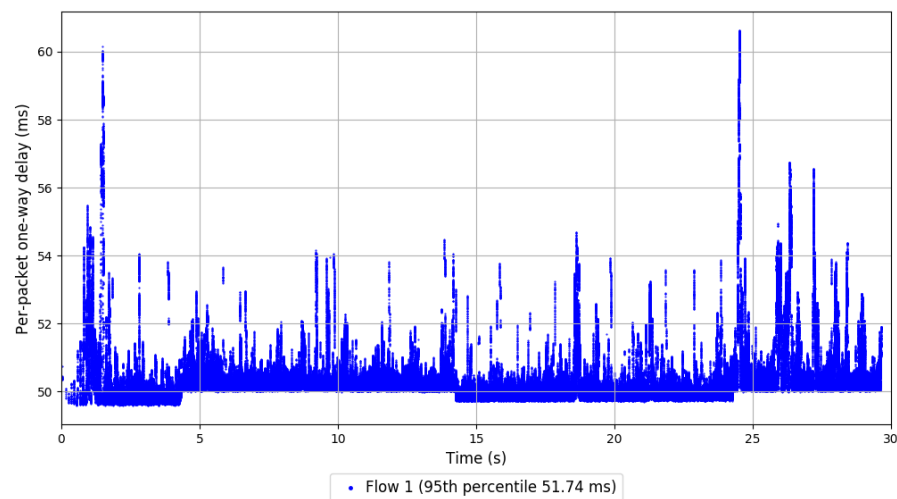
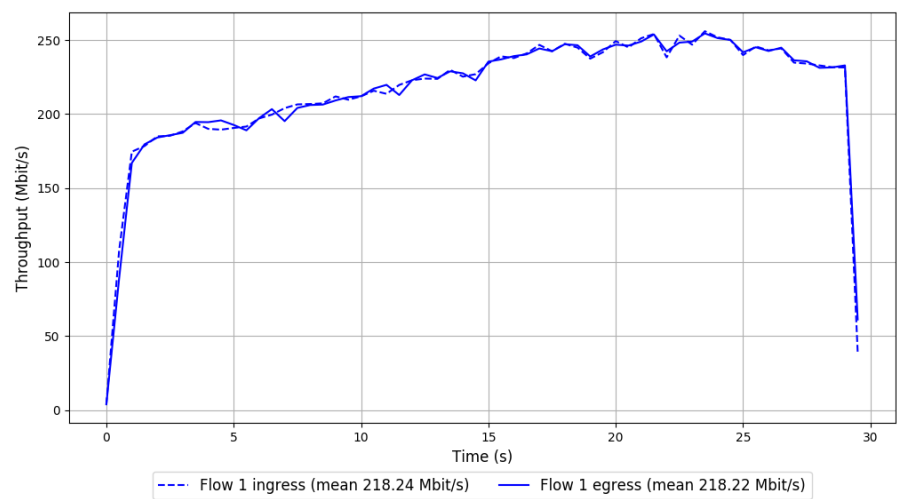


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-17 14:33:04
End at: 2018-04-17 14:33:34

# Below is generated by plot.py at 2018-04-17 18:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 218.22 Mbit/s
95th percentile per-packet one-way delay: 51.744 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 218.22 Mbit/s
95th percentile per-packet one-way delay: 51.744 ms
Loss rate: 0.00%
```

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

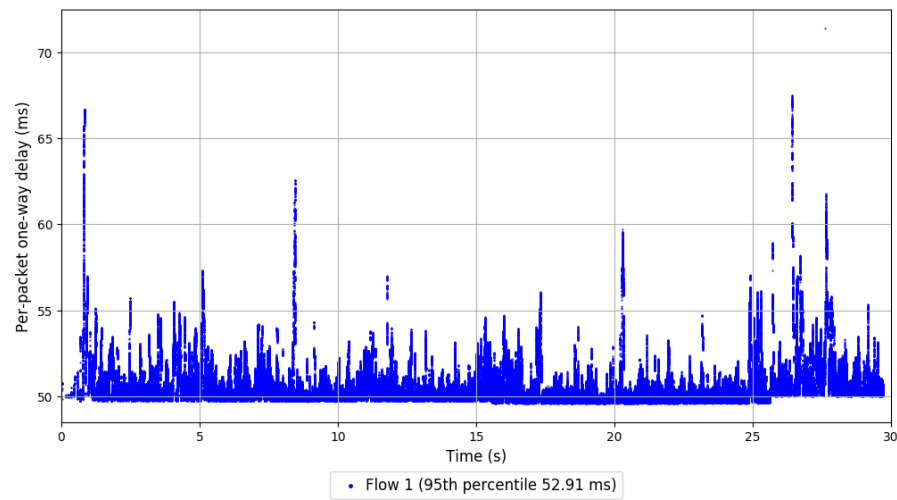
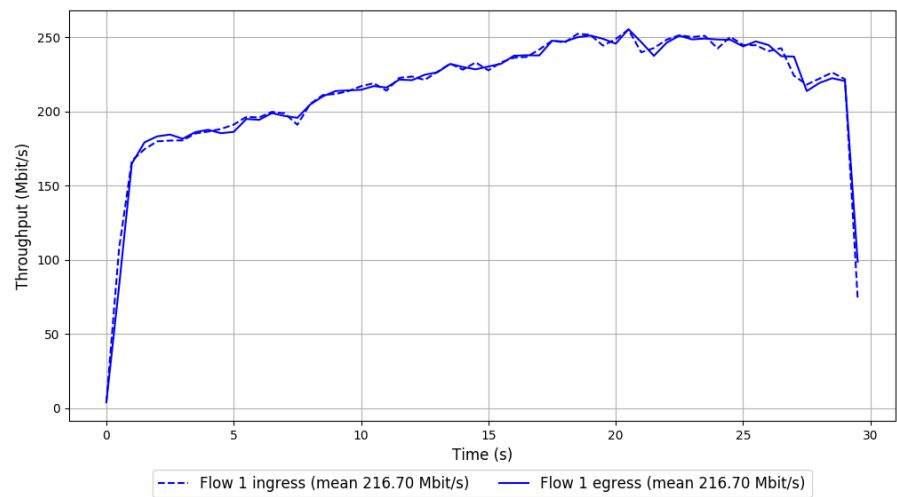


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-17 14:45:33
End at: 2018-04-17 14:46:03

# Below is generated by plot.py at 2018-04-17 18:37:37
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.70 Mbit/s
95th percentile per-packet one-way delay: 52.909 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.70 Mbit/s
95th percentile per-packet one-way delay: 52.909 ms
Loss rate: 0.00%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-17 14:58:07

End at: 2018-04-17 14:58:37

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.02 Mbit/s

95th percentile per-packet one-way delay: 50.796 ms

Loss rate: 0.00%

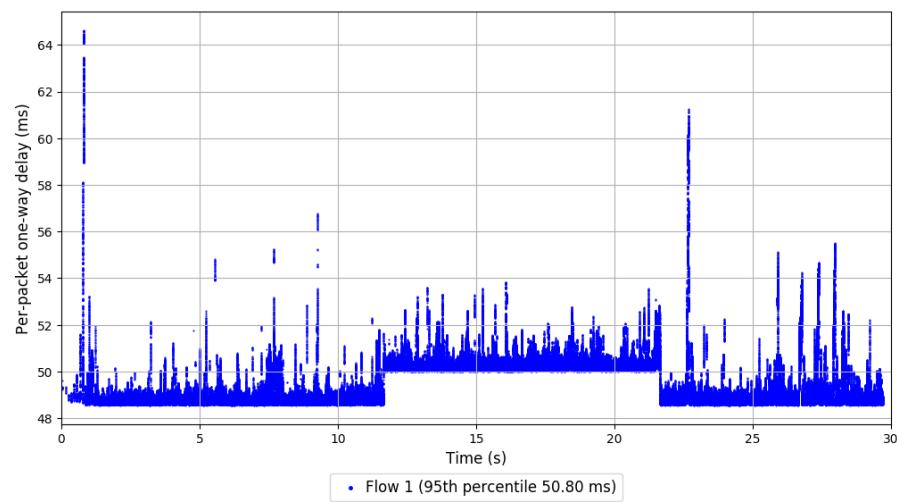
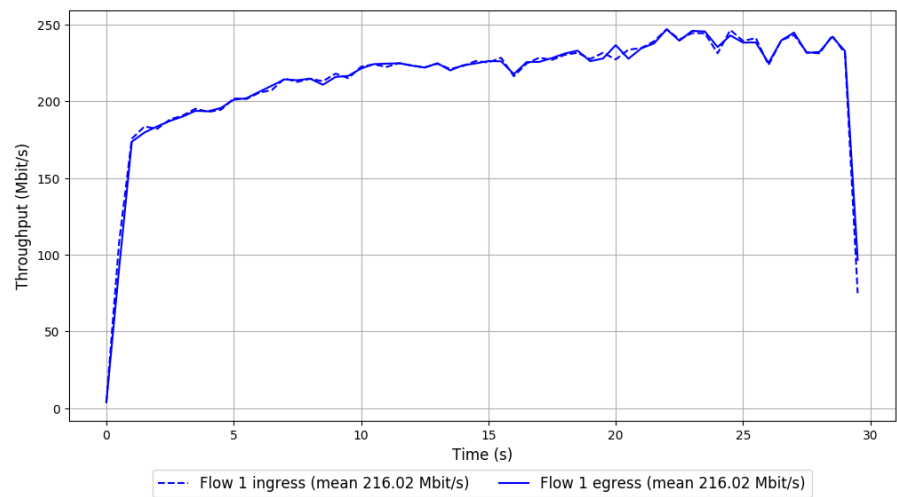
-- Flow 1:

Average throughput: 216.02 Mbit/s

95th percentile per-packet one-way delay: 50.796 ms

Loss rate: 0.00%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-17 15:10:57

End at: 2018-04-17 15:11:27

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.45 Mbit/s

95th percentile per-packet one-way delay: 51.794 ms

Loss rate: 0.02%

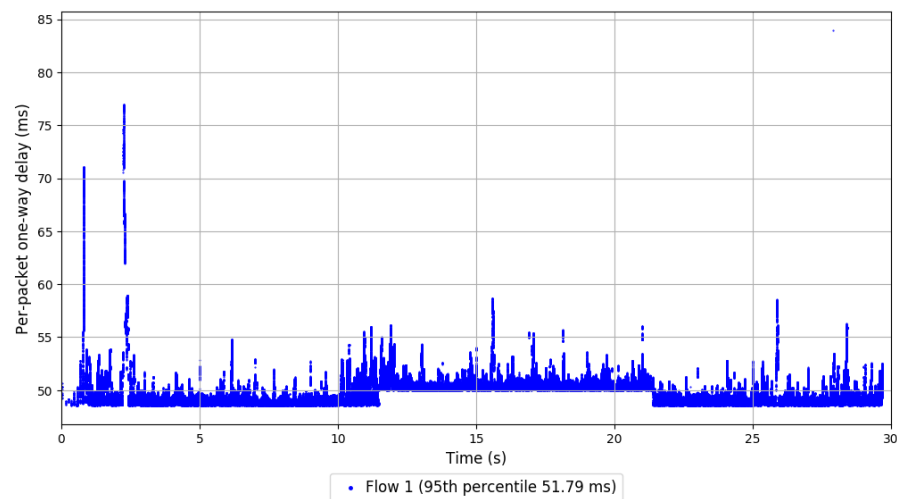
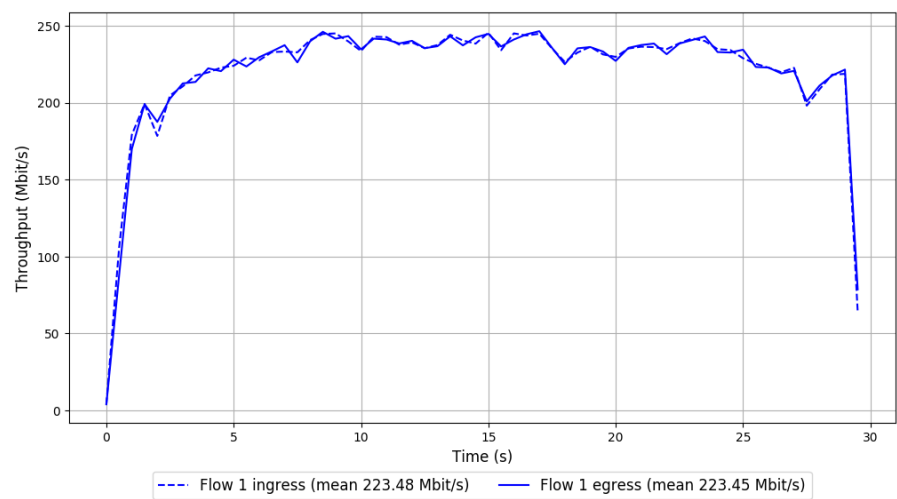
-- Flow 1:

Average throughput: 223.45 Mbit/s

95th percentile per-packet one-way delay: 51.794 ms

Loss rate: 0.02%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-17 15:23:44

End at: 2018-04-17 15:24:14

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 49.949 ms

Loss rate: 0.00%

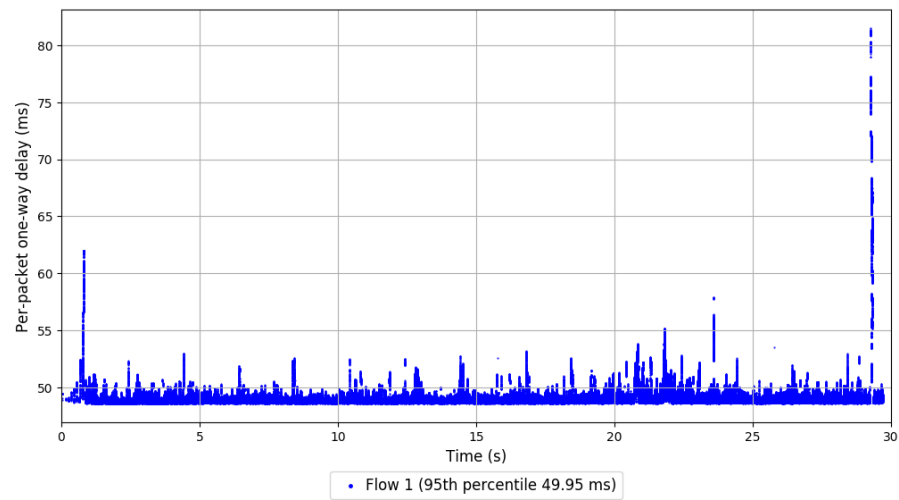
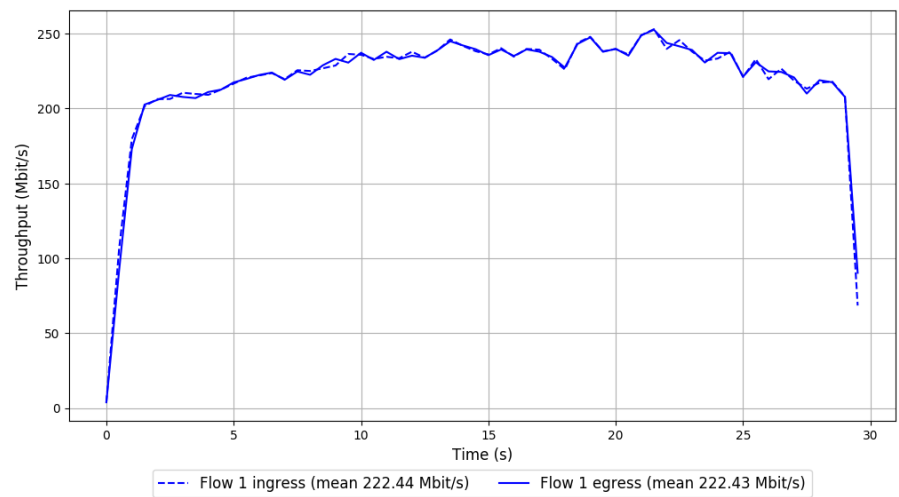
-- Flow 1:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 49.949 ms

Loss rate: 0.00%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-17 15:36:26

End at: 2018-04-17 15:36:56

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.16 Mbit/s

95th percentile per-packet one-way delay: 54.044 ms

Loss rate: 0.00%

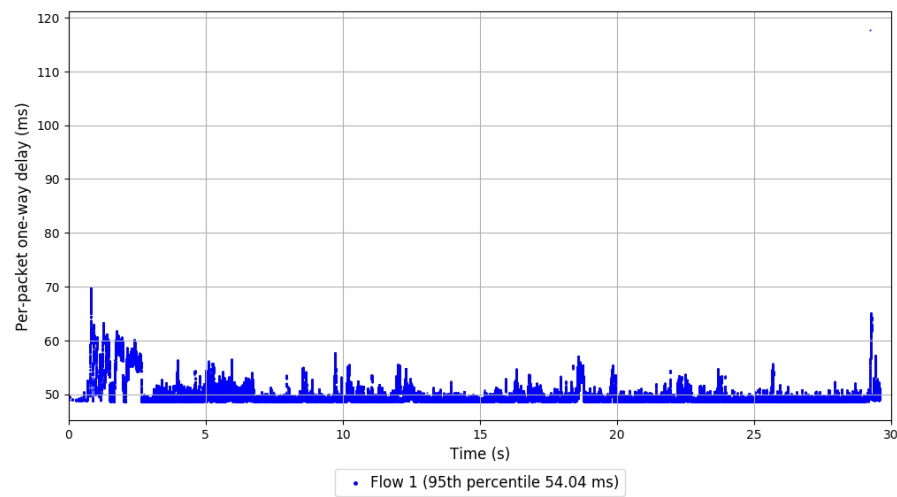
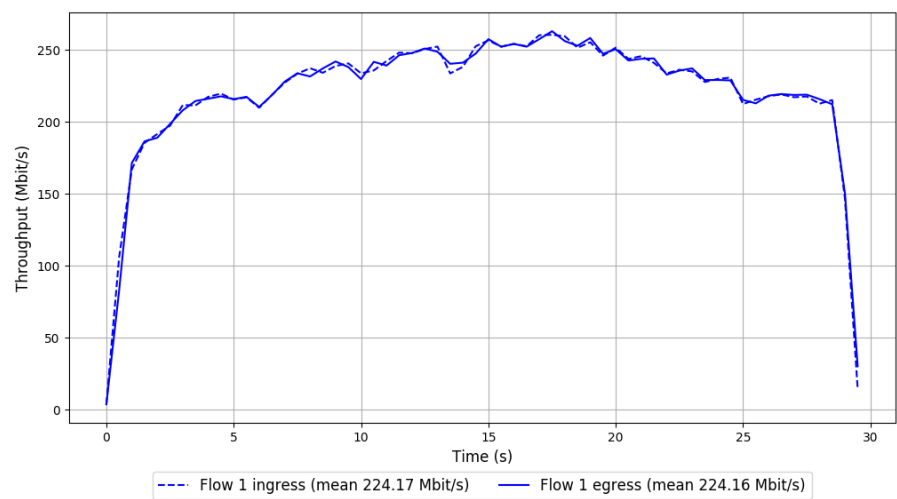
-- Flow 1:

Average throughput: 224.16 Mbit/s

95th percentile per-packet one-way delay: 54.044 ms

Loss rate: 0.00%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-17 15:48:49

End at: 2018-04-17 15:49:19

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.13 Mbit/s

95th percentile per-packet one-way delay: 52.694 ms

Loss rate: 0.00%

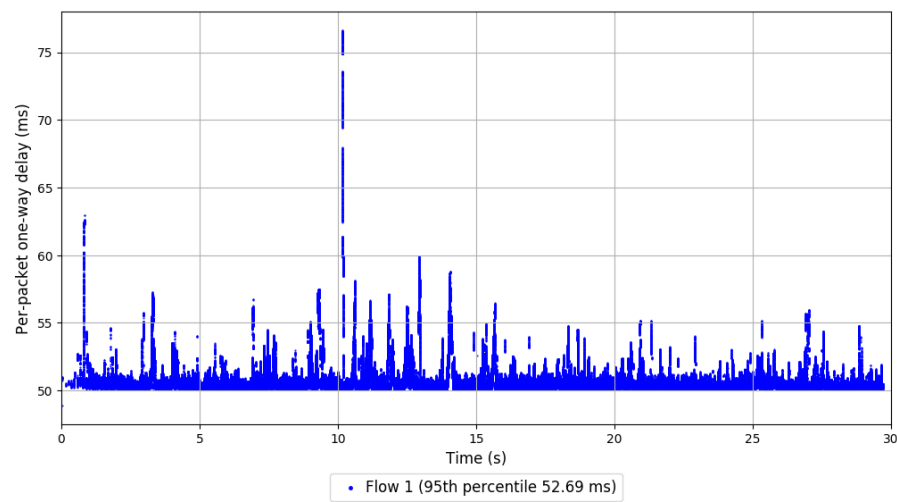
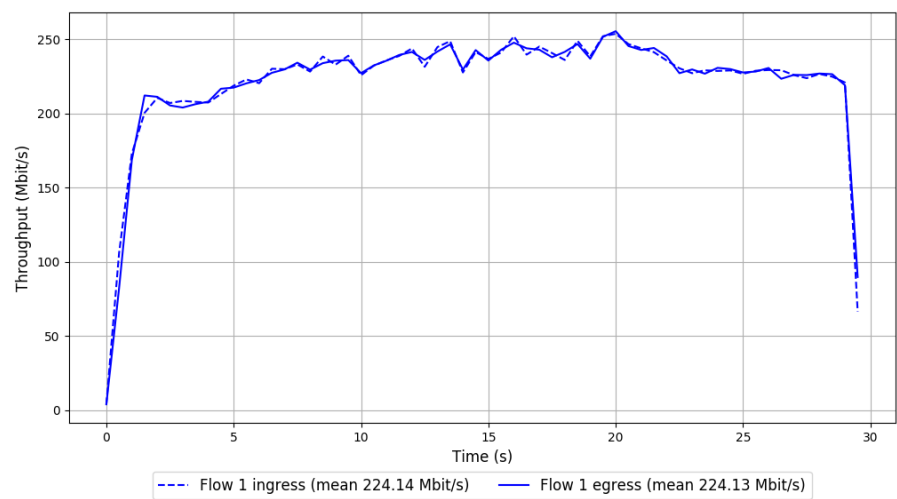
-- Flow 1:

Average throughput: 224.13 Mbit/s

95th percentile per-packet one-way delay: 52.694 ms

Loss rate: 0.00%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-17 16:01:15

End at: 2018-04-17 16:01:45

Below is generated by plot.py at 2018-04-17 18:37:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.38 Mbit/s

95th percentile per-packet one-way delay: 51.911 ms

Loss rate: 0.00%

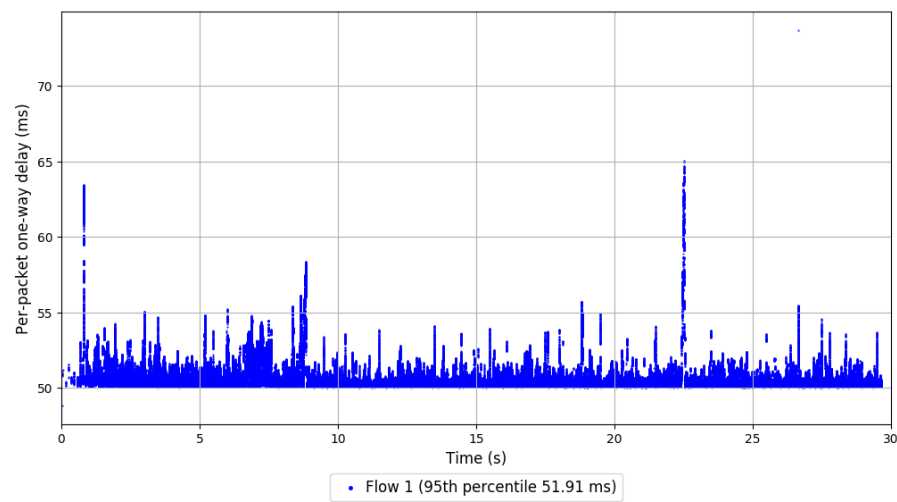
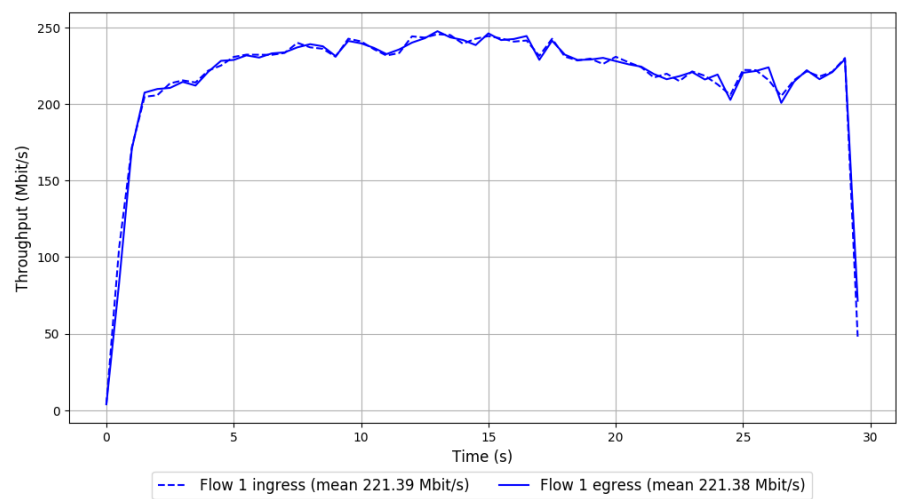
-- Flow 1:

Average throughput: 221.38 Mbit/s

95th percentile per-packet one-way delay: 51.911 ms

Loss rate: 0.00%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-17 16:13:59

End at: 2018-04-17 16:14:29

Below is generated by plot.py at 2018-04-17 18:37:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.52 Mbit/s

95th percentile per-packet one-way delay: 52.276 ms

Loss rate: 0.01%

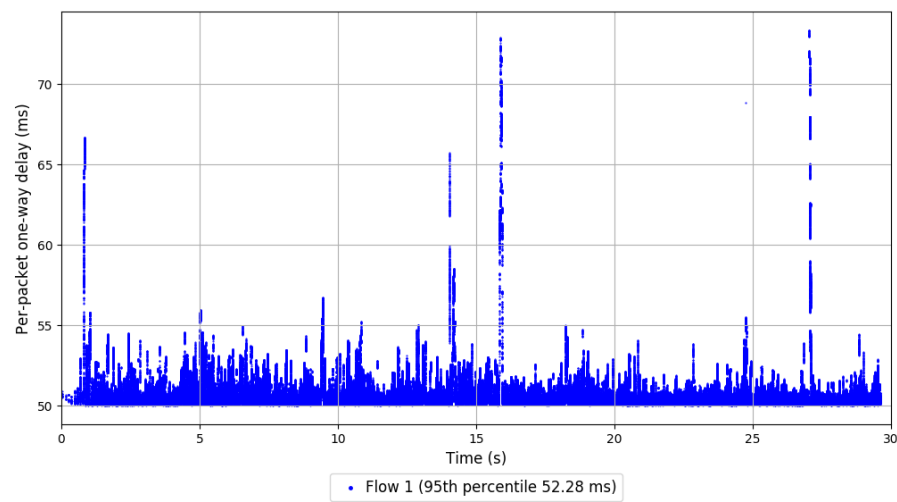
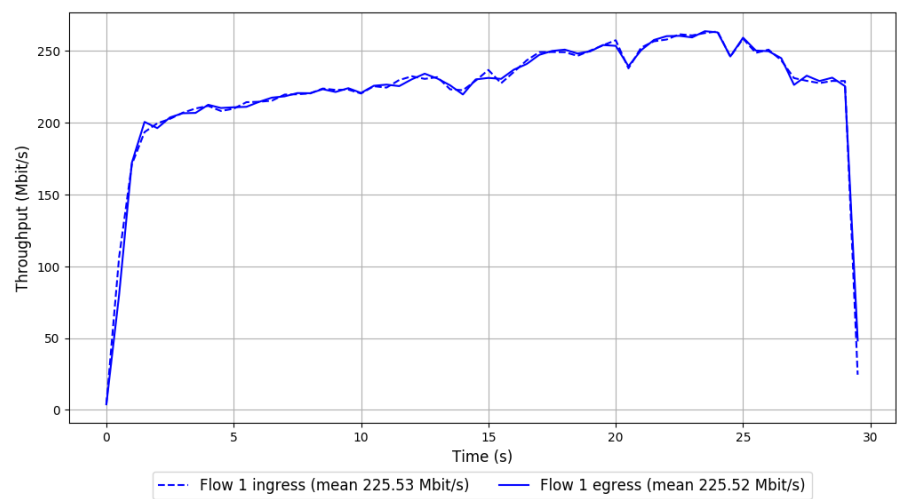
-- Flow 1:

Average throughput: 225.52 Mbit/s

95th percentile per-packet one-way delay: 52.276 ms

Loss rate: 0.01%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-17 16:26:40

End at: 2018-04-17 16:27:10

Below is generated by plot.py at 2018-04-17 18:38:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 0.01%

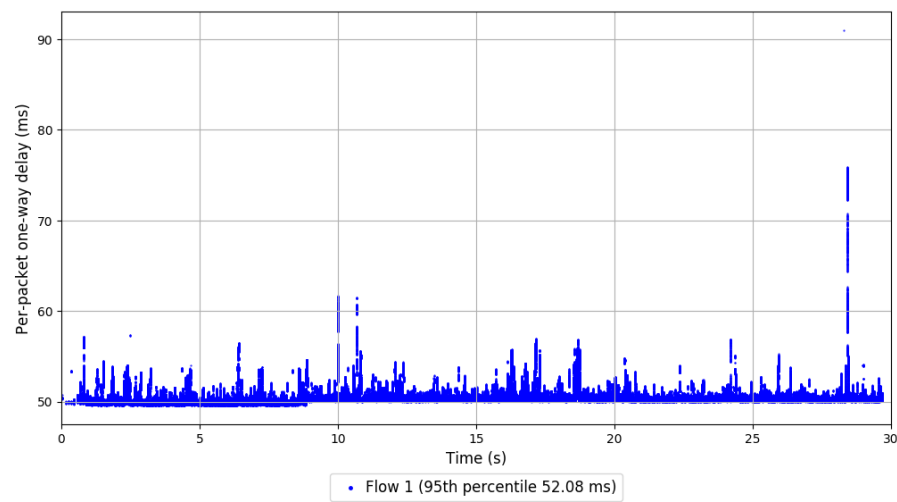
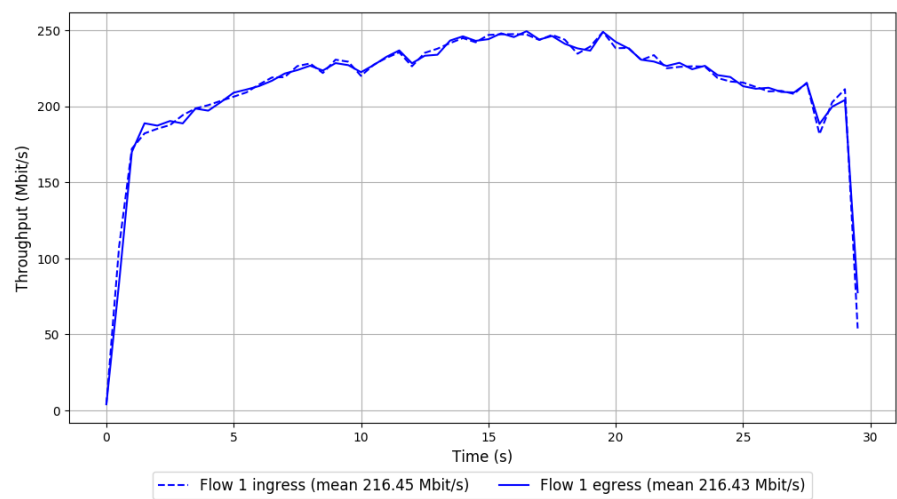
-- Flow 1:

Average throughput: 216.43 Mbit/s

95th percentile per-packet one-way delay: 52.075 ms

Loss rate: 0.01%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-17 14:38:55

End at: 2018-04-17 14:39:25

Below is generated by plot.py at 2018-04-17 18:41:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.16 Mbit/s

95th percentile per-packet one-way delay: 60.358 ms

Loss rate: 0.01%

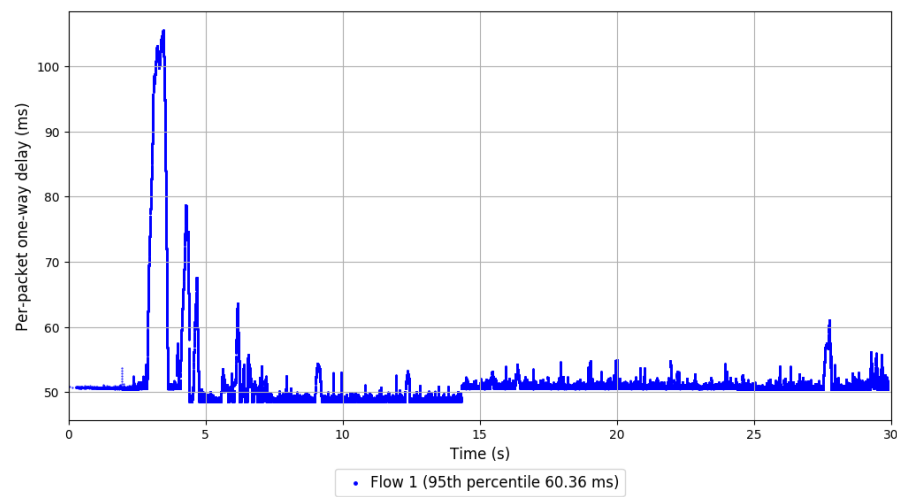
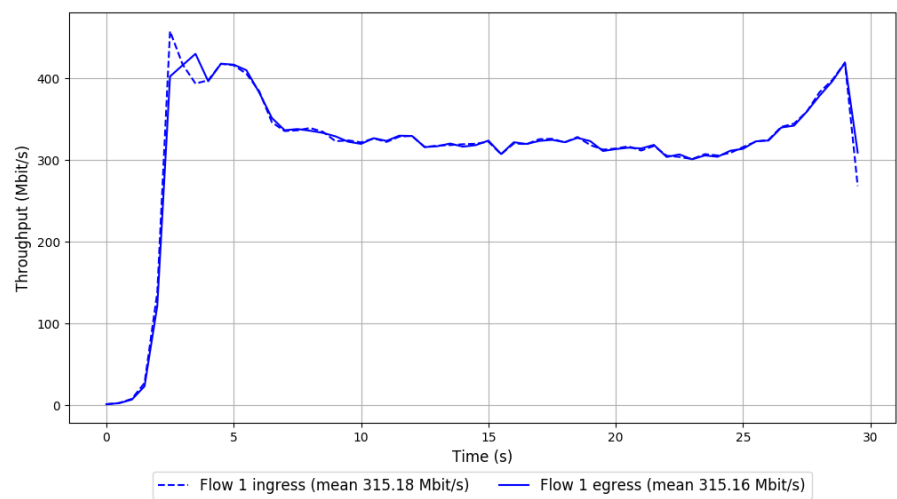
-- Flow 1:

Average throughput: 315.16 Mbit/s

95th percentile per-packet one-way delay: 60.358 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-17 14:51:27

End at: 2018-04-17 14:51:57

Below is generated by plot.py at 2018-04-17 18:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.76 Mbit/s

95th percentile per-packet one-way delay: 53.162 ms

Loss rate: 0.03%

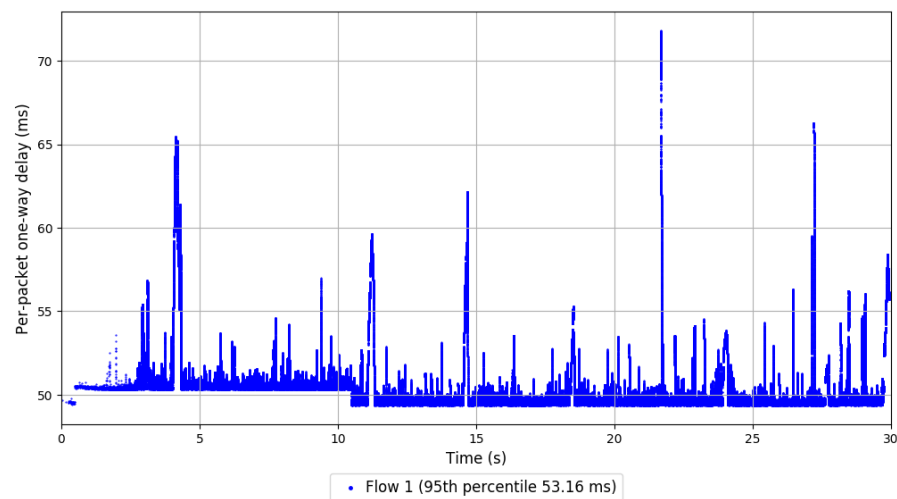
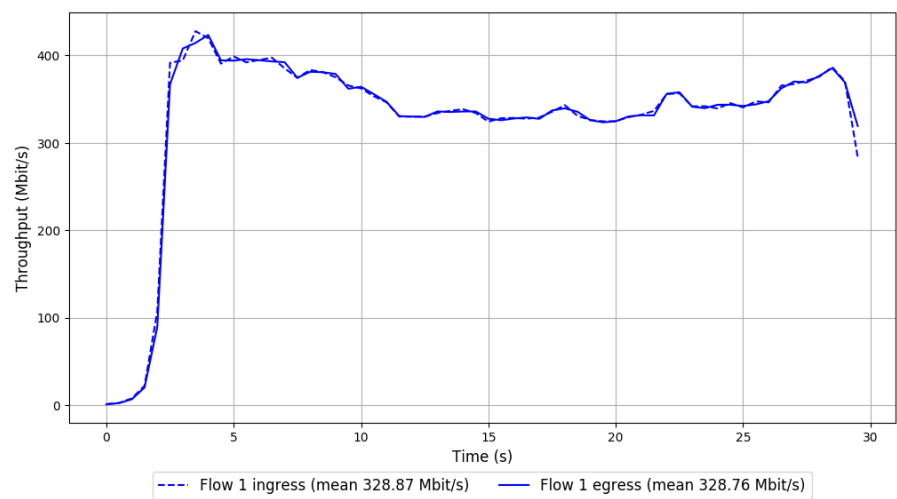
-- Flow 1:

Average throughput: 328.76 Mbit/s

95th percentile per-packet one-way delay: 53.162 ms

Loss rate: 0.03%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-17 15:04:16

End at: 2018-04-17 15:04:46

Below is generated by plot.py at 2018-04-17 18:42:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.92 Mbit/s

95th percentile per-packet one-way delay: 56.301 ms

Loss rate: 0.00%

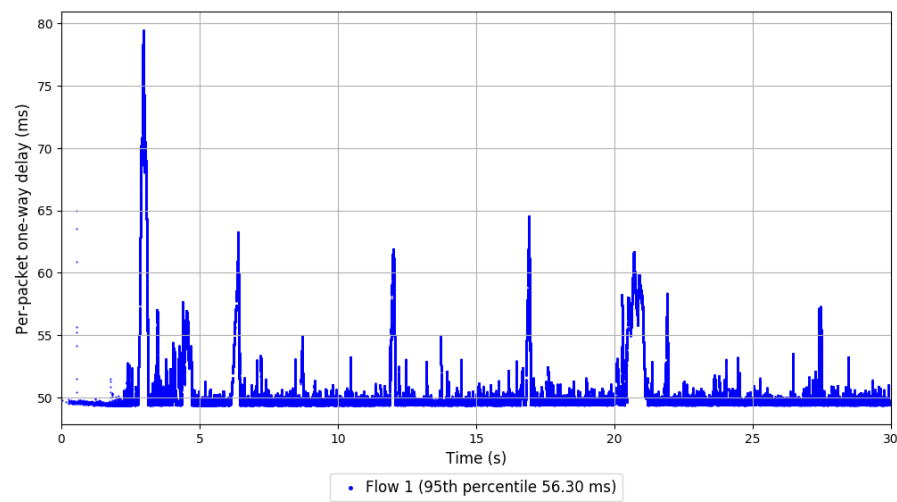
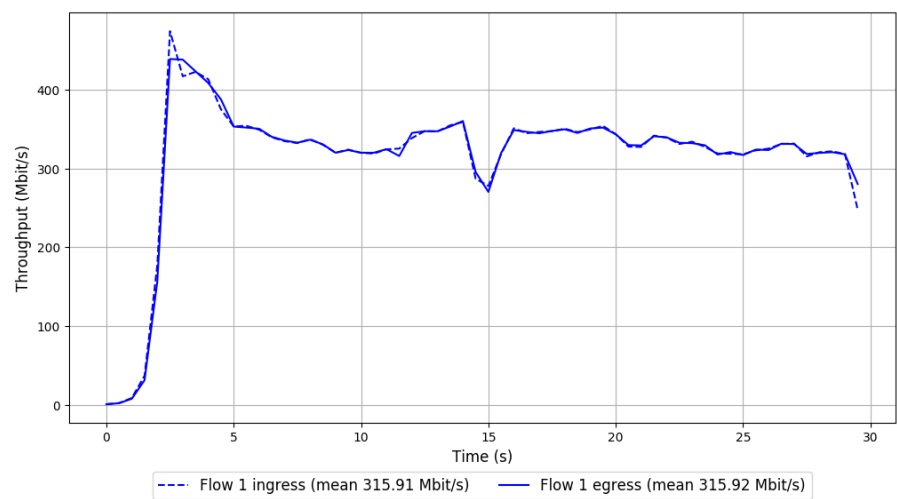
-- Flow 1:

Average throughput: 315.92 Mbit/s

95th percentile per-packet one-way delay: 56.301 ms

Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-17 15:17:07

End at: 2018-04-17 15:17:37

Below is generated by plot.py at 2018-04-17 18:42:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.07 Mbit/s

95th percentile per-packet one-way delay: 63.026 ms

Loss rate: 0.01%

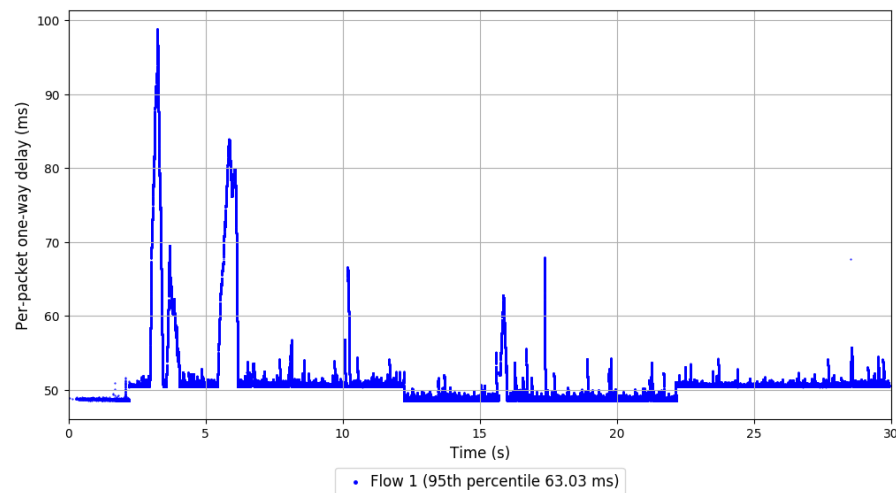
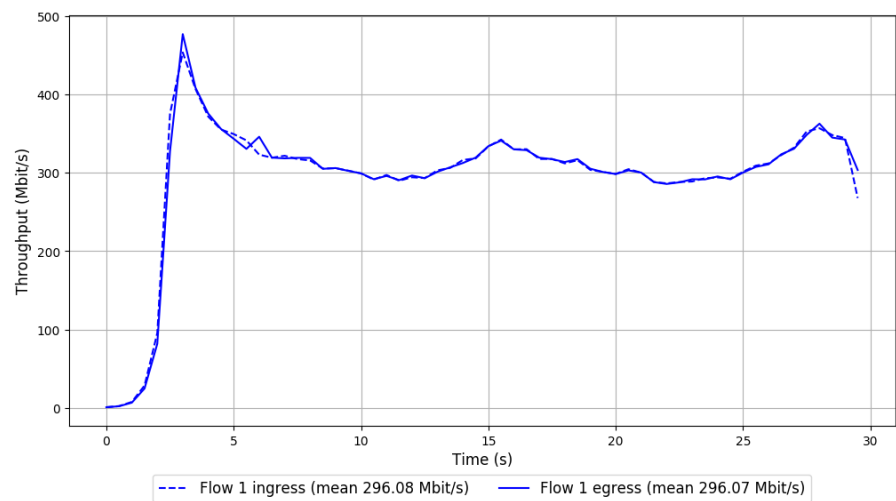
-- Flow 1:

Average throughput: 296.07 Mbit/s

95th percentile per-packet one-way delay: 63.026 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-17 15:29:46

End at: 2018-04-17 15:30:16

Below is generated by plot.py at 2018-04-17 18:42:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.83 Mbit/s

95th percentile per-packet one-way delay: 56.102 ms

Loss rate: 0.33%

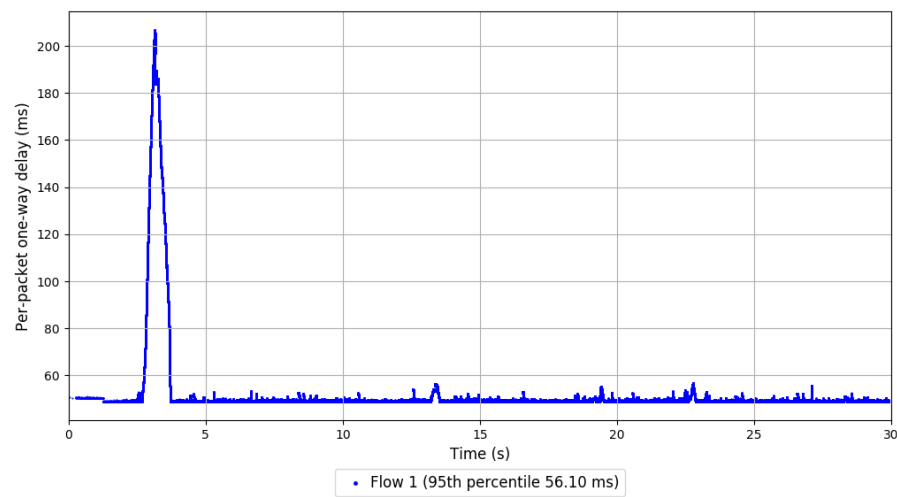
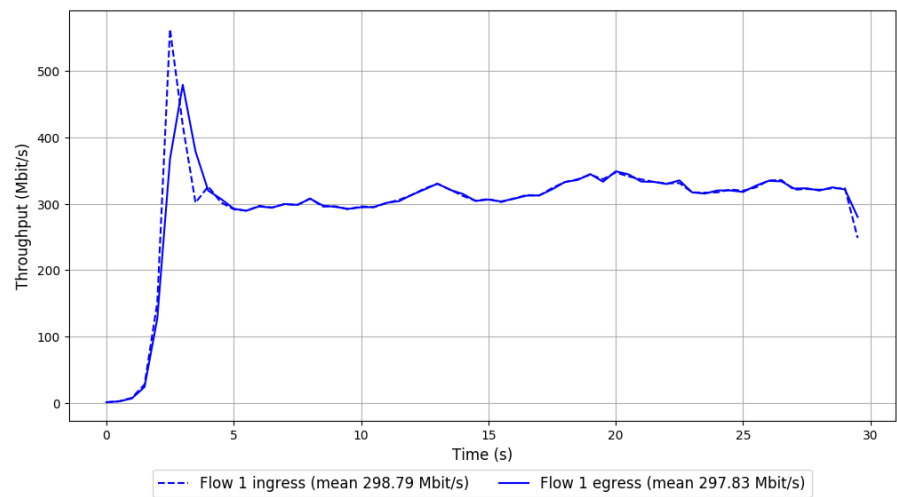
-- Flow 1:

Average throughput: 297.83 Mbit/s

95th percentile per-packet one-way delay: 56.102 ms

Loss rate: 0.33%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-17 15:42:15

End at: 2018-04-17 15:42:45

Below is generated by plot.py at 2018-04-17 18:42:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.44 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 0.00%

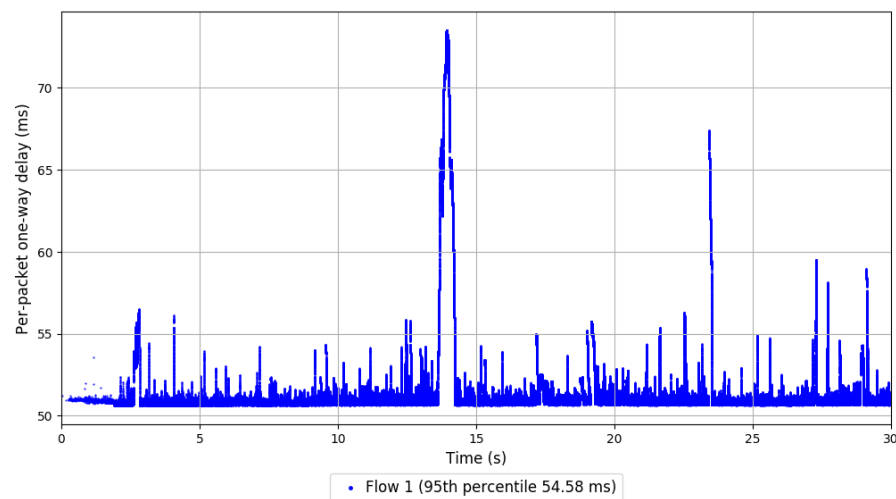
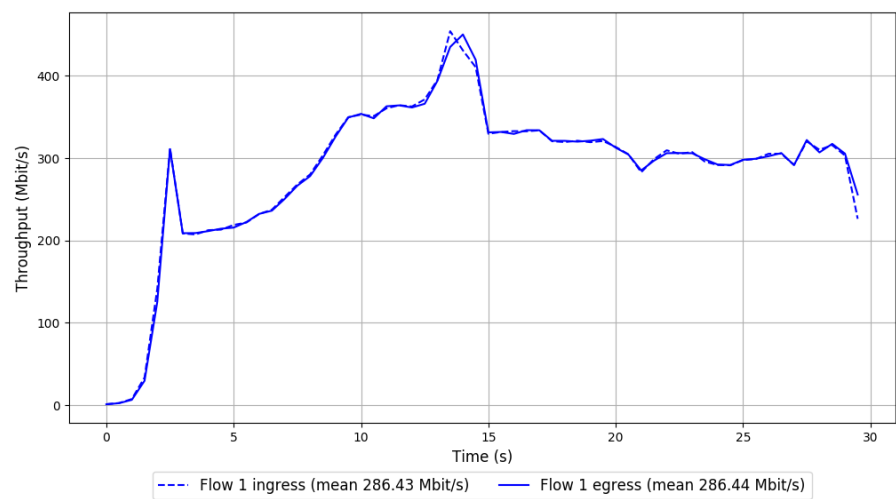
-- Flow 1:

Average throughput: 286.44 Mbit/s

95th percentile per-packet one-way delay: 54.576 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-17 15:54:35

End at: 2018-04-17 15:55:05

Below is generated by plot.py at 2018-04-17 18:43:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 304.50 Mbit/s

95th percentile per-packet one-way delay: 83.074 ms

Loss rate: 0.00%

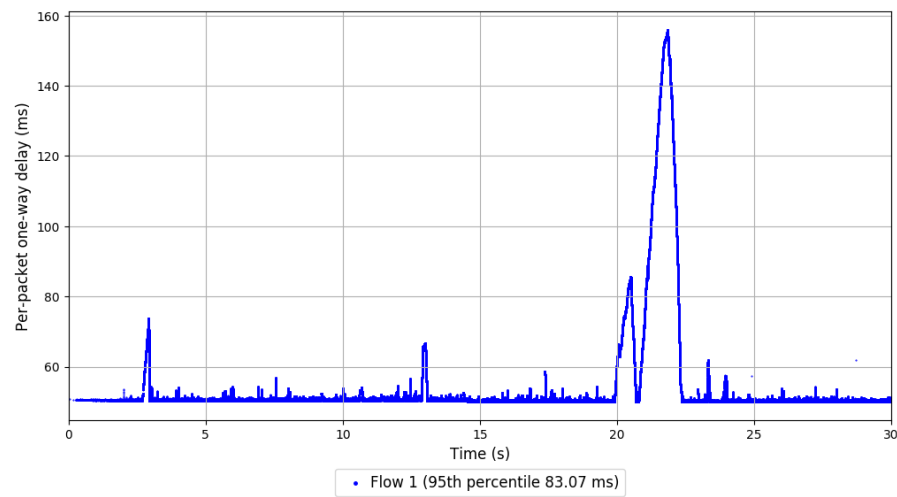
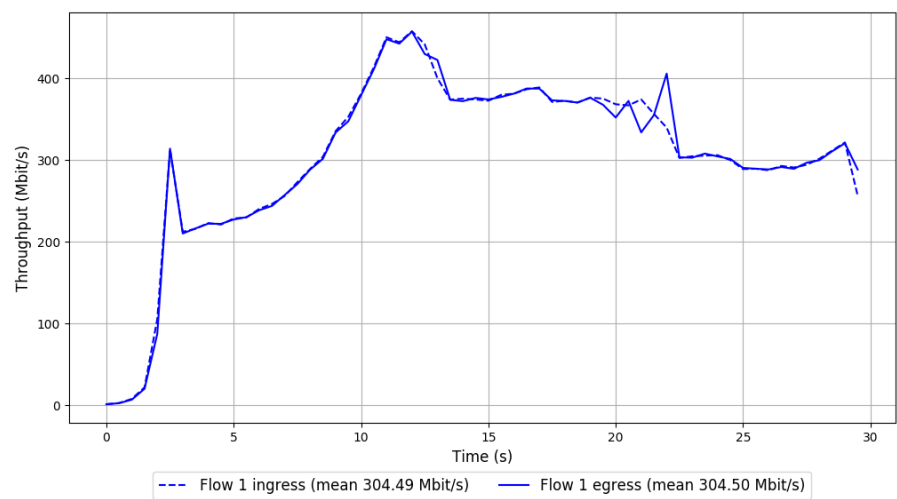
-- Flow 1:

Average throughput: 304.50 Mbit/s

95th percentile per-packet one-way delay: 83.074 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-17 16:07:25

End at: 2018-04-17 16:07:55

Below is generated by plot.py at 2018-04-17 18:43:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.92 Mbit/s

95th percentile per-packet one-way delay: 54.908 ms

Loss rate: 0.00%

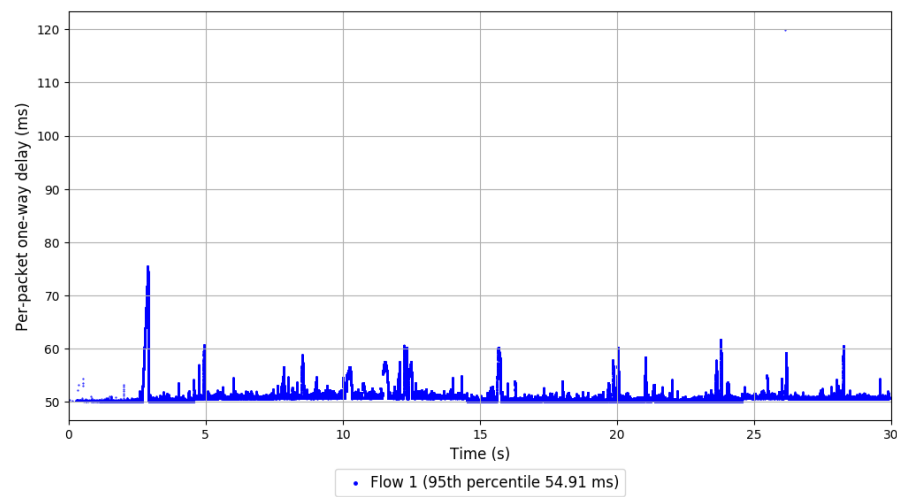
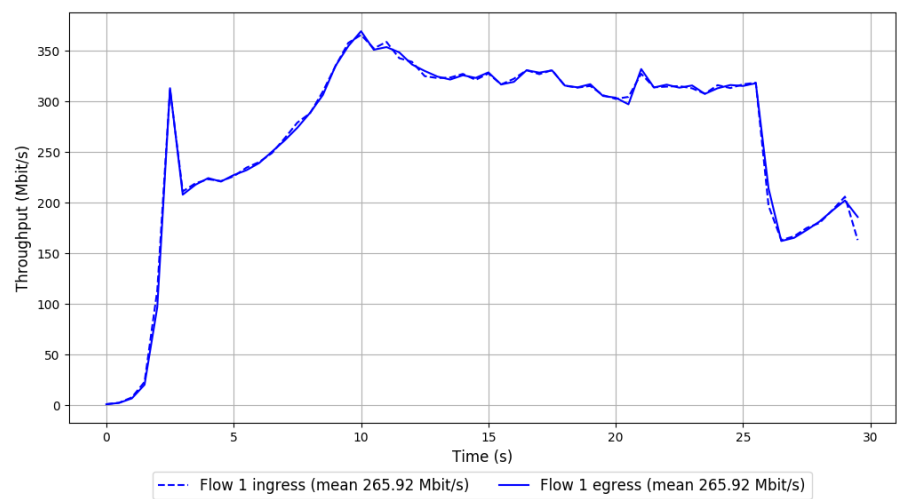
-- Flow 1:

Average throughput: 265.92 Mbit/s

95th percentile per-packet one-way delay: 54.908 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-17 16:19:59

End at: 2018-04-17 16:20:29

Below is generated by plot.py at 2018-04-17 18:43:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 298.16 Mbit/s

95th percentile per-packet one-way delay: 78.024 ms

Loss rate: 0.01%

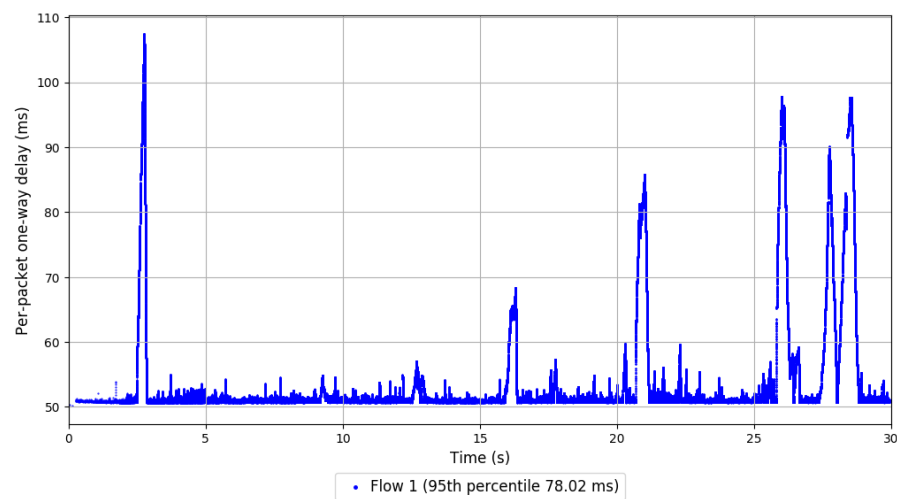
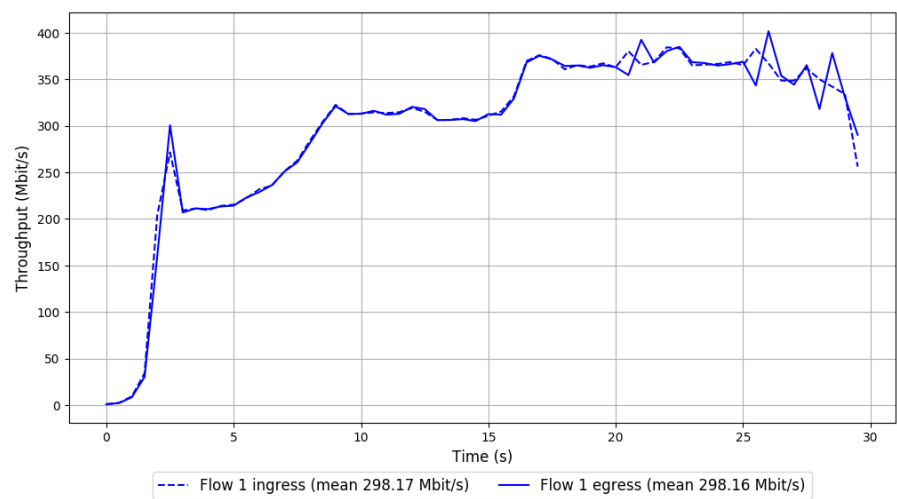
-- Flow 1:

Average throughput: 298.16 Mbit/s

95th percentile per-packet one-way delay: 78.024 ms

Loss rate: 0.01%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-17 16:32:34

End at: 2018-04-17 16:33:04

Below is generated by plot.py at 2018-04-17 18:43:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.32 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.01%

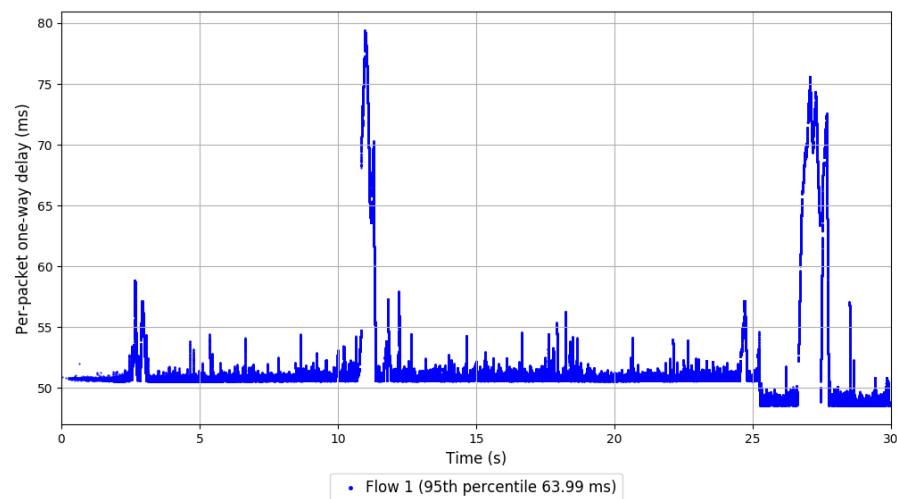
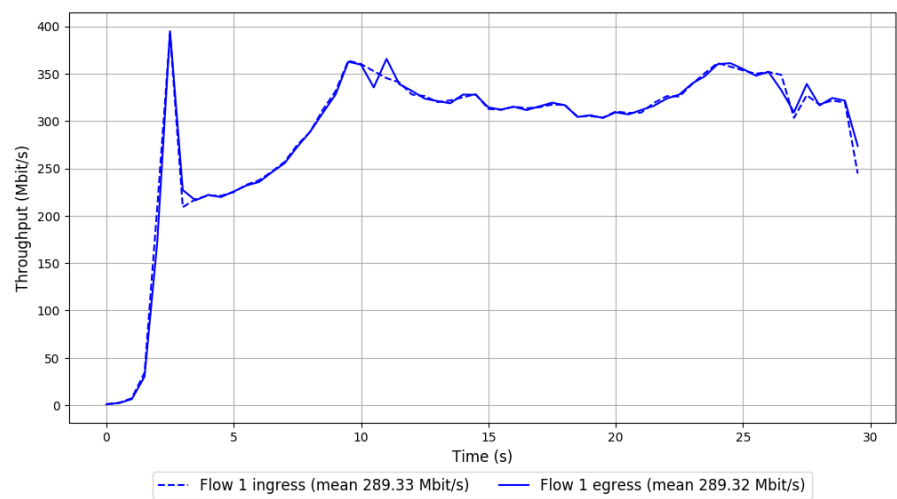
-- Flow 1:

Average throughput: 289.32 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.01%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-17 14:36:11

End at: 2018-04-17 14:36:41

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 14:48:38

End at: 2018-04-17 14:49:08

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 15:01:31

End at: 2018-04-17 15:02:01

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 15:14:24

End at: 2018-04-17 15:14:54

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 15:26:59

End at: 2018-04-17 15:27:29

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 15:39:30

End at: 2018-04-17 15:40:00

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 15:51:57

End at: 2018-04-17 15:52:27

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 16:04:38

End at: 2018-04-17 16:05:08

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 16:17:13

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

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 16:29:46

End at: 2018-04-17 16:30:16

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing