

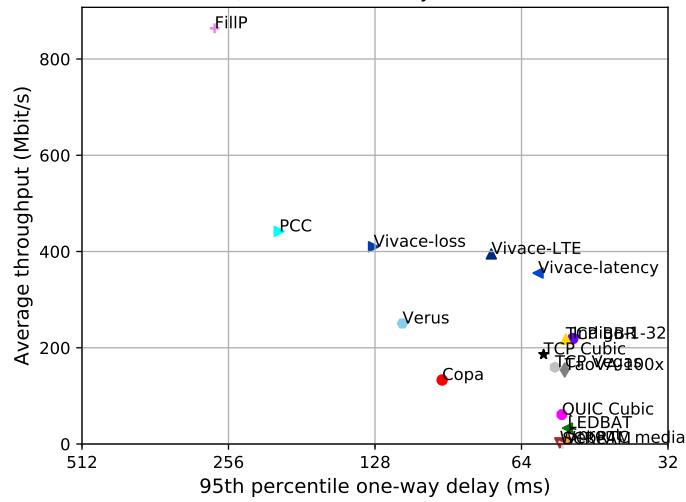
Pantheon Report

Generated at 2018-02-16 12:34:00 (UTC).
Data path: GCE Tokyo Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 17 congestion control schemes 10 times.
Each test lasted for 30 seconds running 1 flow.
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

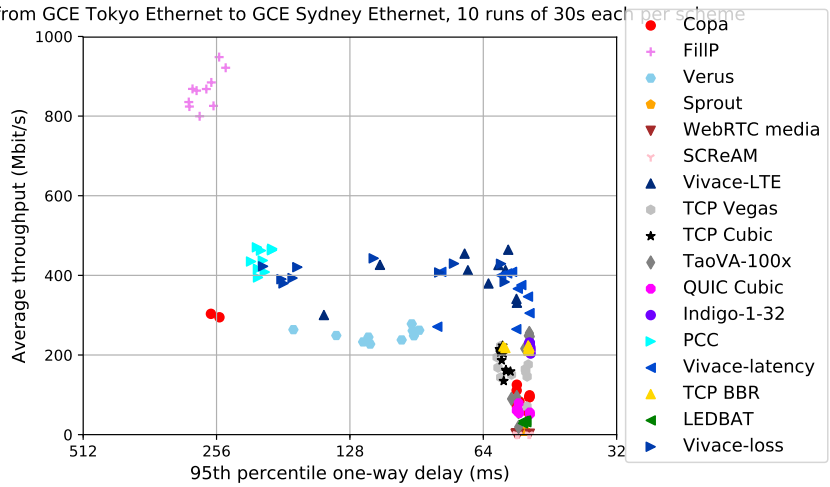
Git summary:

```
branch: master @ cccb2d77344969a7bac1df6edf6c0cfb6c77a6f8
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5cec90f281d1c69ae1a5c6
third_party/genericCC @ 8400b8926887fc4cf8c795a1d7ce2c8ac041ec72
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	218.07	51.89	0.36
TCP Cubic	10	186.28	57.65	0.32
LEDBAT	10	33.04	51.50	0.68
PCC	10	441.86	201.34	2.95
QUIC Cubic	10	61.20	52.88	0.50
SCReAM	10	0.21	52.73	0.37
WebRTC media	10	2.32	53.42	0.39
Sprout	10	7.89	51.49	0.37
TaoVA-100x	10	153.82	52.18	0.31
TCP Vegas	10	159.52	54.65	0.31
Verus	10	250.54	112.41	0.66
Copa	10	133.07	93.16	6.88
FillP	10	863.85	273.37	6.78
Indigo-1-32	10	219.06	50.21	0.35
Vivace-latency	10	355.17	59.19	0.50
Vivace-loss	10	409.86	128.87	2.34
Vivace-LTE	10	395.03	73.82	0.69

Run 1: Statistics of TCP BBR

Start at: 2018-02-16 06:12:49

End at: 2018-02-16 06:13:19

Below is generated by plot.py at 2018-02-16 11:06:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.43 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.37%

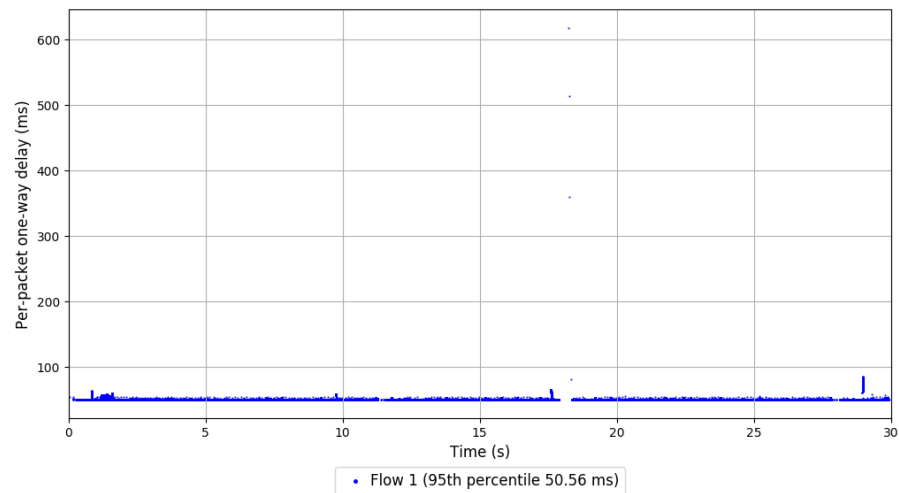
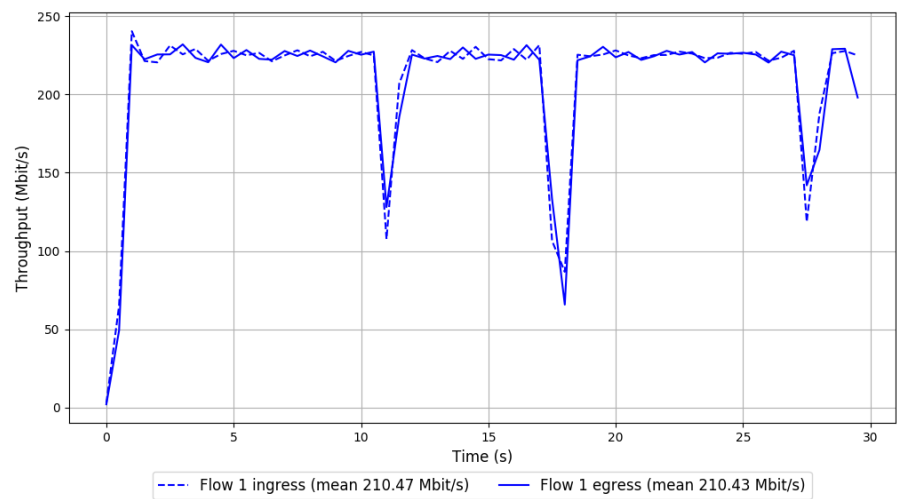
-- Flow 1:

Average throughput: 210.43 Mbit/s

95th percentile per-packet one-way delay: 50.563 ms

Loss rate: 0.37%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-16 06:27:38

End at: 2018-02-16 06:28:08

Below is generated by plot.py at 2018-02-16 11:06:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.79 Mbit/s

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

Loss rate: 0.36%

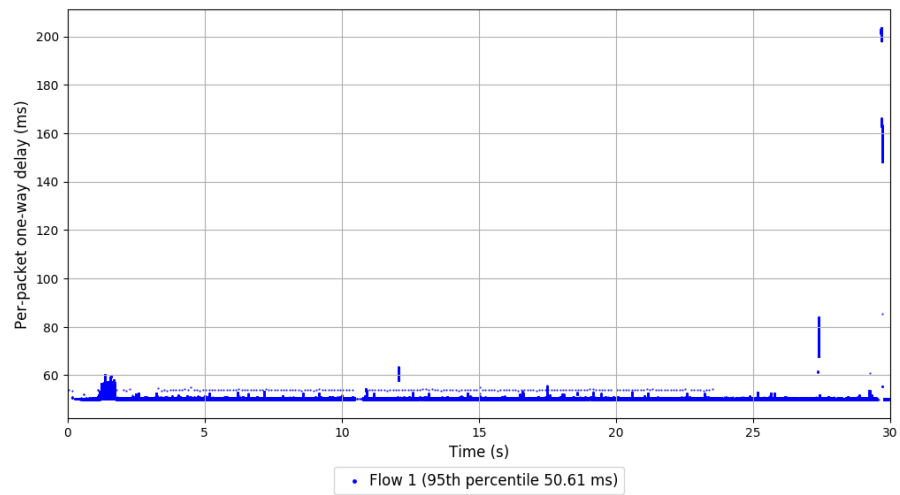
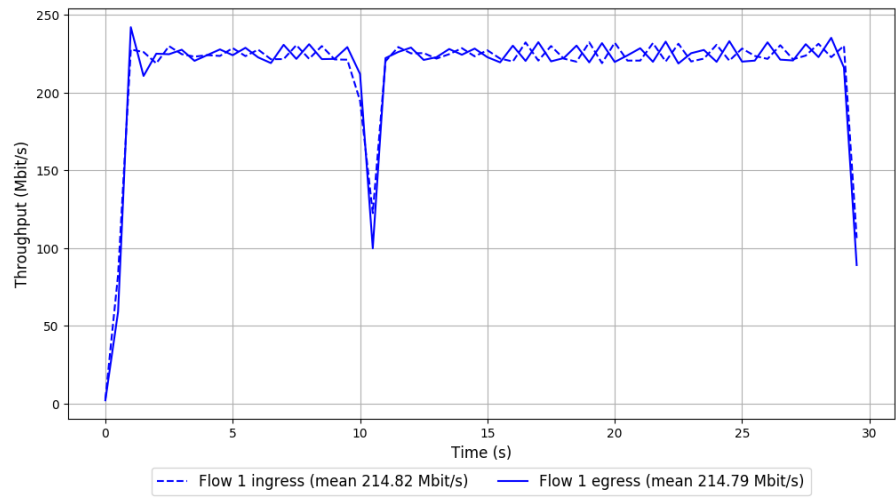
-- Flow 1:

Average throughput: 214.79 Mbit/s

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

Loss rate: 0.36%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-16 06:42:05

End at: 2018-02-16 06:42:35

Below is generated by plot.py at 2018-02-16 11:06:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.98 Mbit/s

95th percentile per-packet one-way delay: 50.509 ms

Loss rate: 0.36%

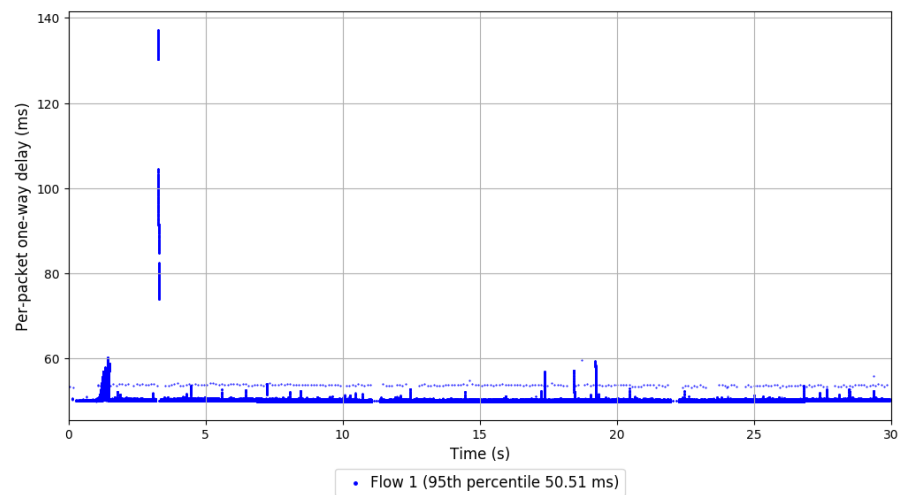
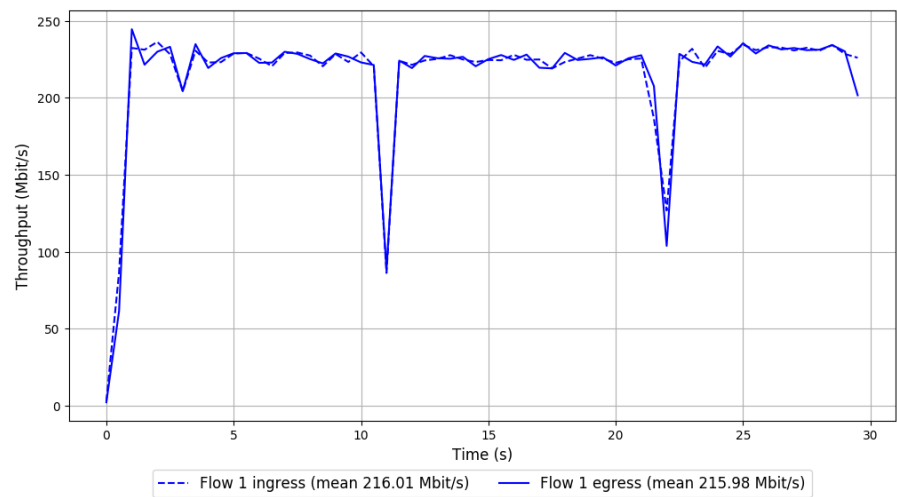
-- Flow 1:

Average throughput: 215.98 Mbit/s

95th percentile per-packet one-way delay: 50.509 ms

Loss rate: 0.36%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-16 06:56:53

End at: 2018-02-16 06:57:23

Below is generated by plot.py at 2018-02-16 11:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.58 Mbit/s

95th percentile per-packet one-way delay: 57.654 ms

Loss rate: 0.34%

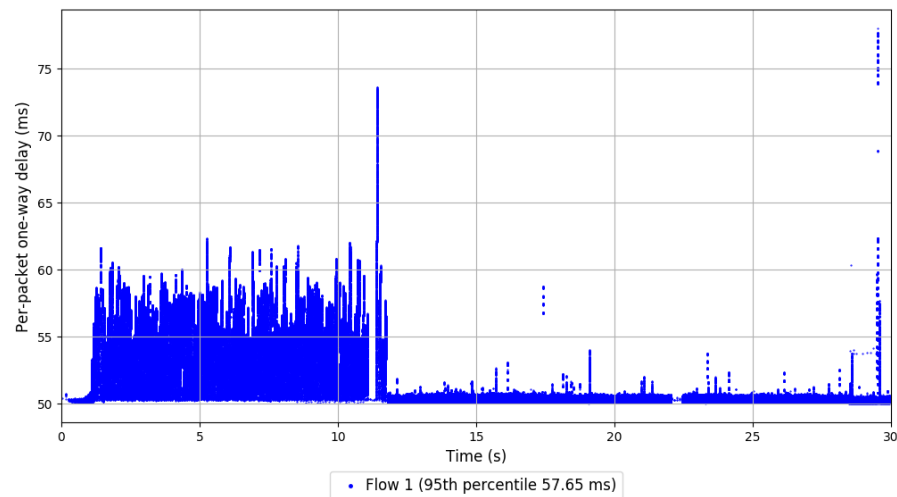
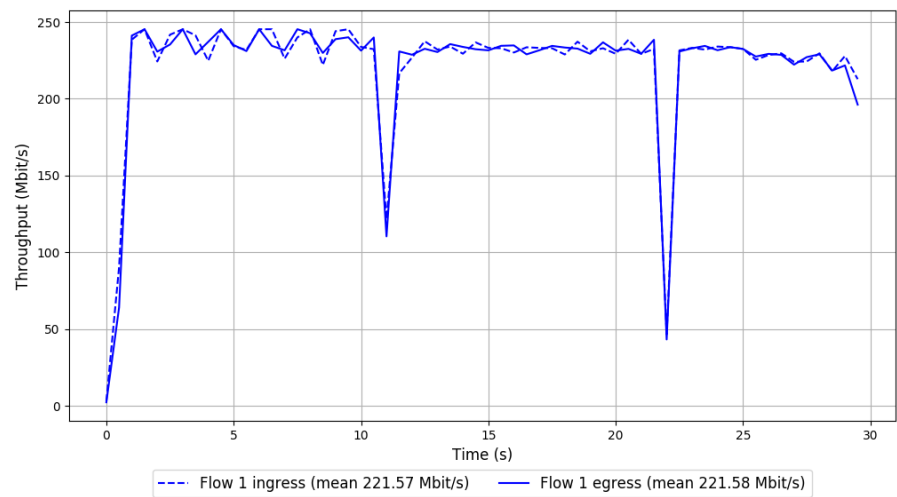
-- Flow 1:

Average throughput: 221.58 Mbit/s

95th percentile per-packet one-way delay: 57.654 ms

Loss rate: 0.34%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-16 07:11:33

End at: 2018-02-16 07:12:03

Below is generated by plot.py at 2018-02-16 11:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 57.050 ms

Loss rate: 0.34%

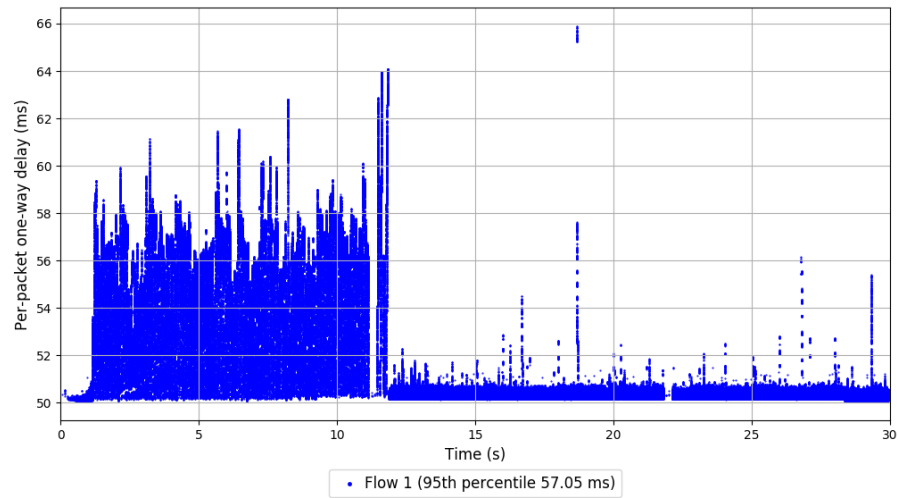
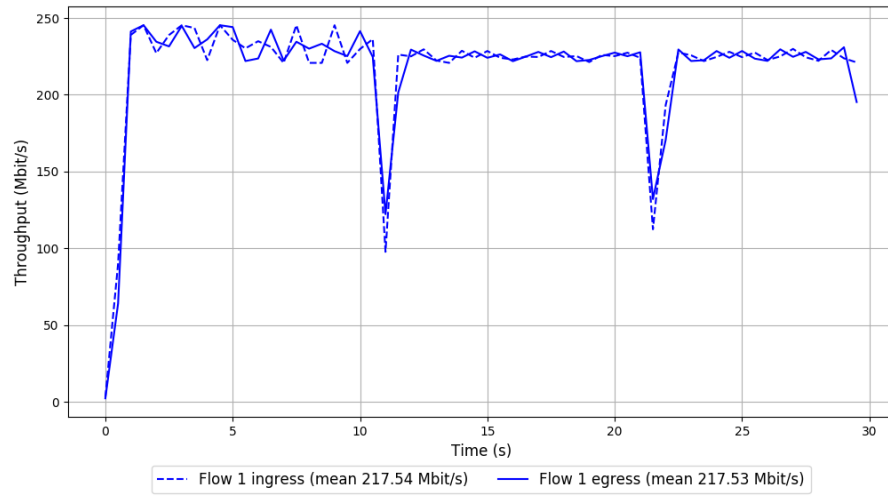
-- Flow 1:

Average throughput: 217.53 Mbit/s

95th percentile per-packet one-way delay: 57.050 ms

Loss rate: 0.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-16 07:26:27

End at: 2018-02-16 07:26:57

Below is generated by plot.py at 2018-02-16 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.20 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.34%

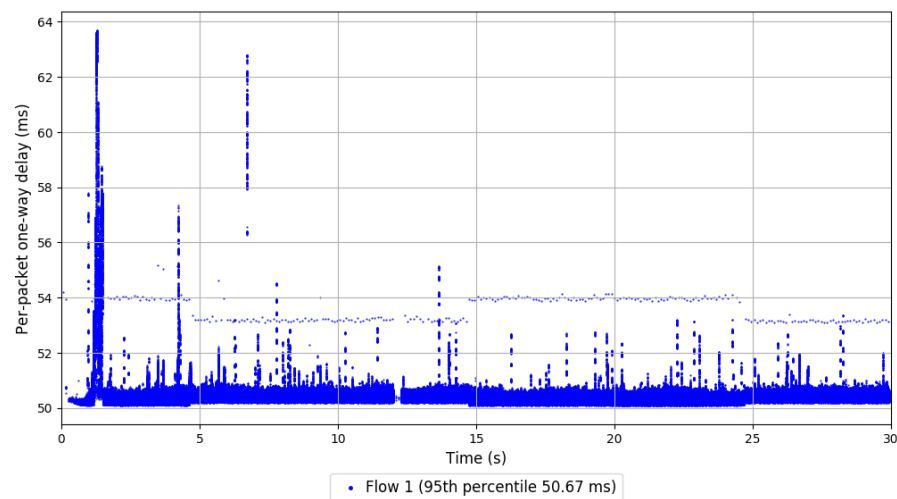
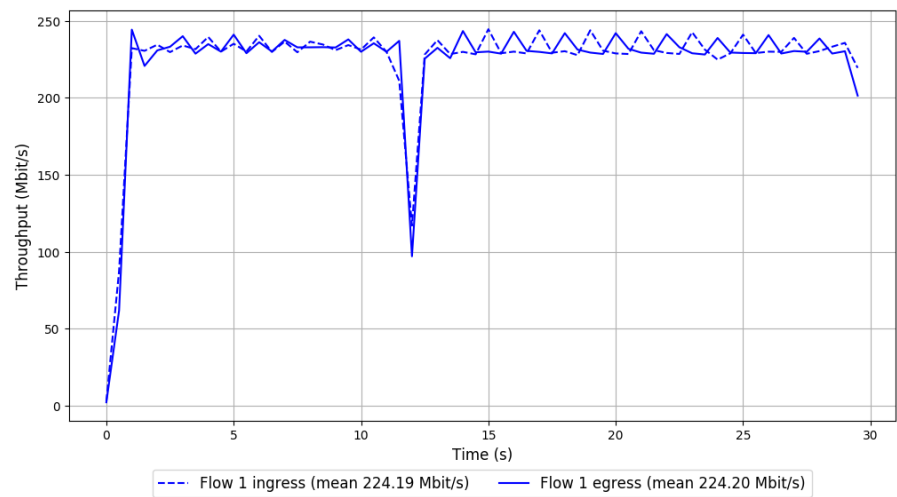
-- Flow 1:

Average throughput: 224.20 Mbit/s

95th percentile per-packet one-way delay: 50.674 ms

Loss rate: 0.34%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-16 07:41:02

End at: 2018-02-16 07:41:32

Below is generated by plot.py at 2018-02-16 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.79 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 0.34%

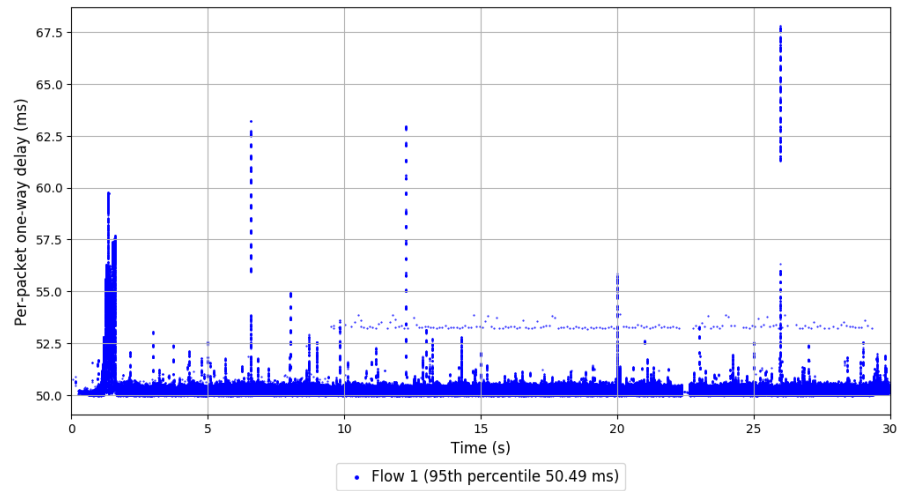
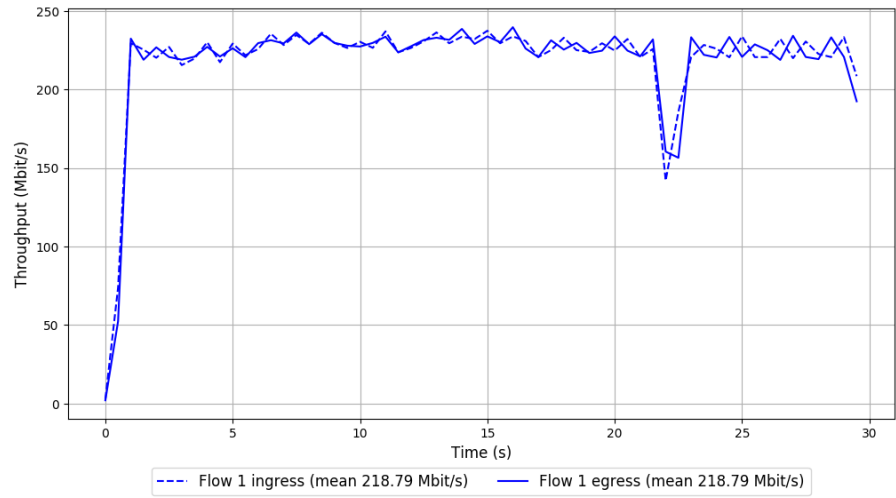
-- Flow 1:

Average throughput: 218.79 Mbit/s

95th percentile per-packet one-way delay: 50.495 ms

Loss rate: 0.34%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-16 07:55:32

End at: 2018-02-16 07:56:02

Below is generated by plot.py at 2018-02-16 11:06:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.13 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.36%

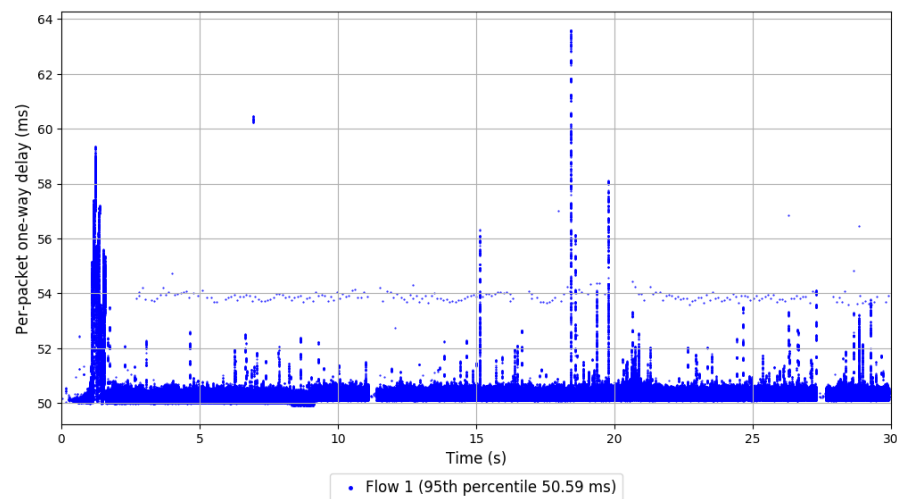
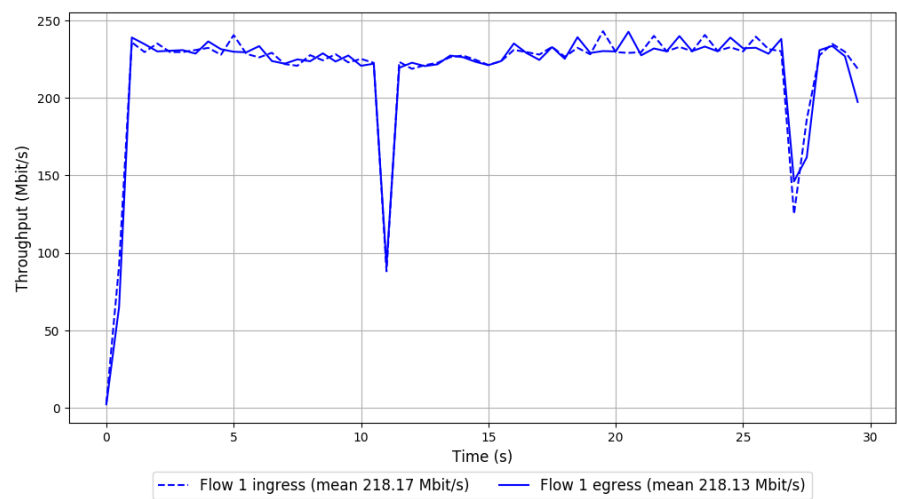
-- Flow 1:

Average throughput: 218.13 Mbit/s

95th percentile per-packet one-way delay: 50.595 ms

Loss rate: 0.36%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-16 08:09:49

End at: 2018-02-16 08:10:19

Below is generated by plot.py at 2018-02-16 11:09:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.08 Mbit/s

95th percentile per-packet one-way delay: 50.395 ms

Loss rate: 0.34%

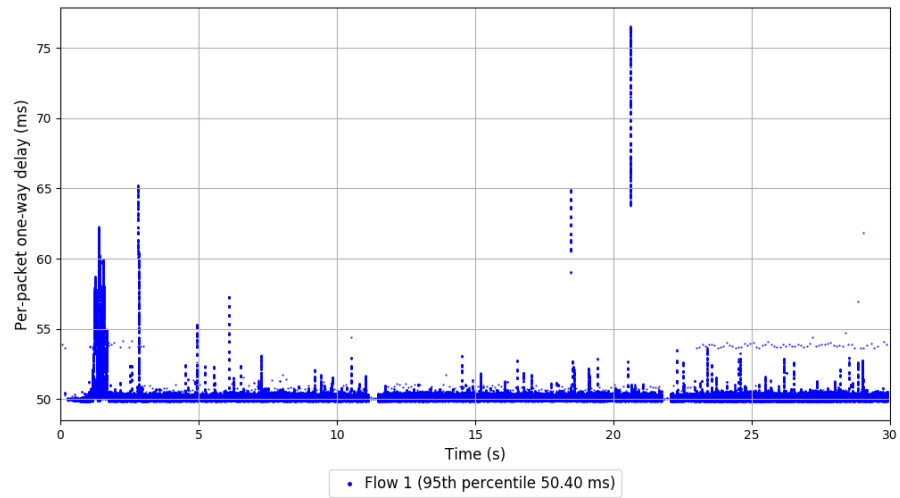
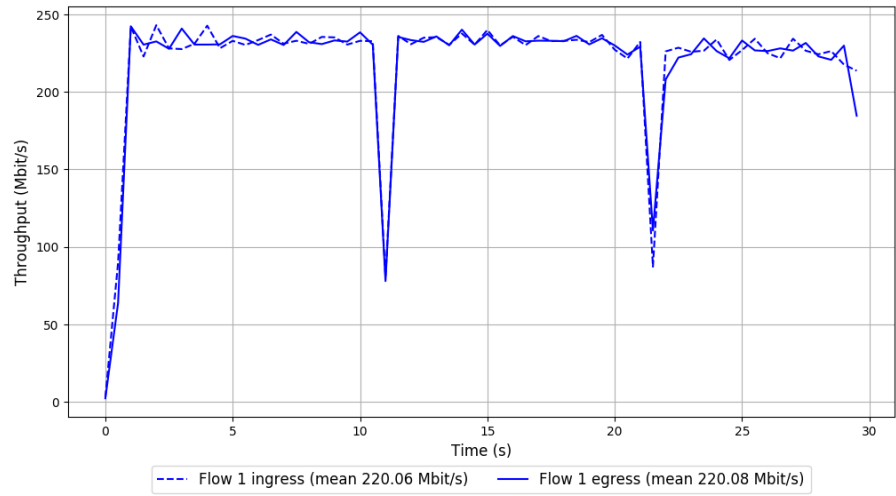
-- Flow 1:

Average throughput: 220.08 Mbit/s

95th percentile per-packet one-way delay: 50.395 ms

Loss rate: 0.34%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-16 08:24:40

End at: 2018-02-16 08:25:10

Below is generated by plot.py at 2018-02-16 11:09:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.18 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.46%

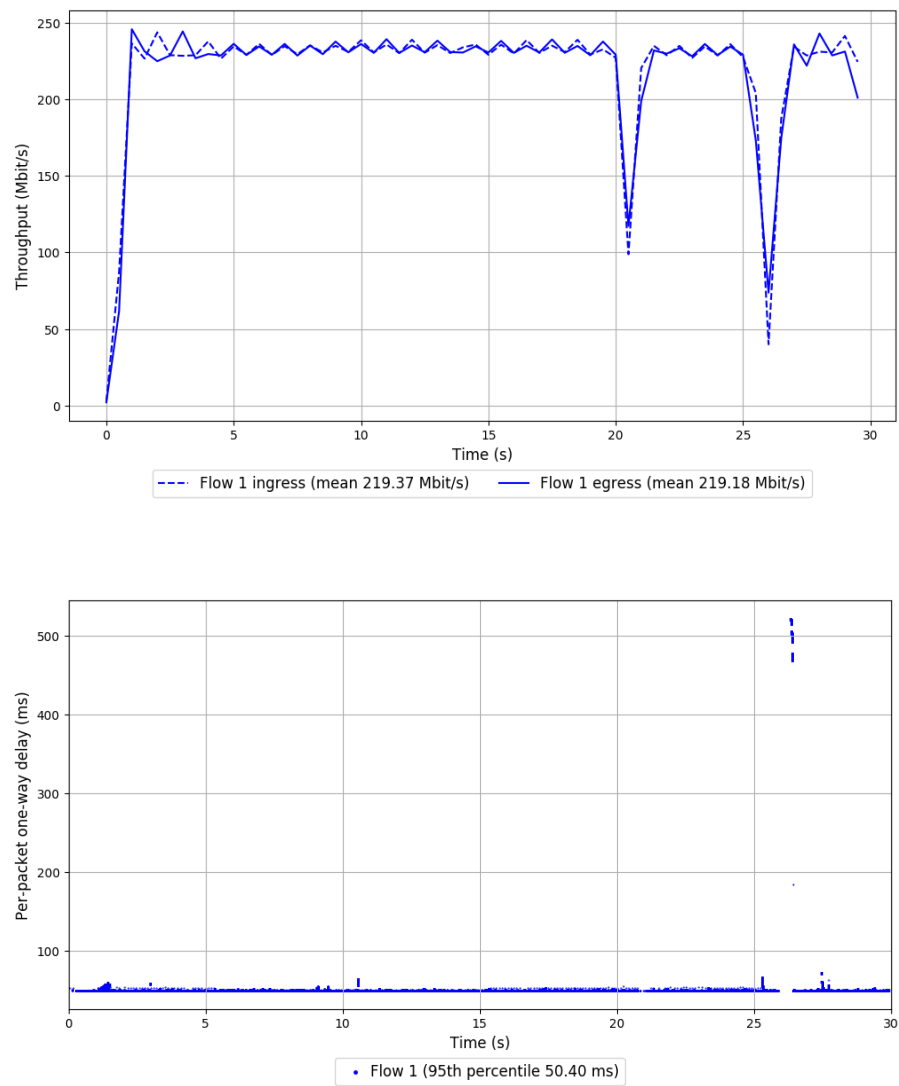
-- Flow 1:

Average throughput: 219.18 Mbit/s

95th percentile per-packet one-way delay: 50.397 ms

Loss rate: 0.46%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-16 06:11:28

End at: 2018-02-16 06:11:58

Below is generated by plot.py at 2018-02-16 11:09:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.65 Mbit/s

95th percentile per-packet one-way delay: 55.573 ms

Loss rate: 0.33%

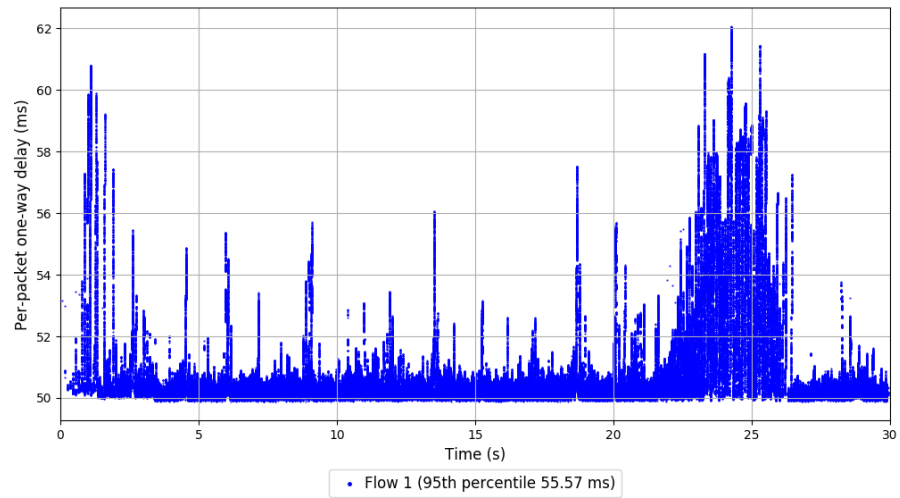
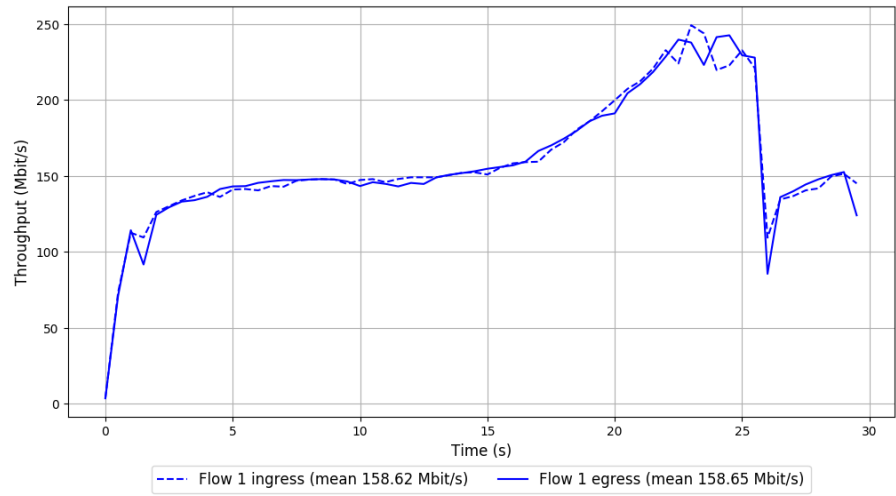
-- Flow 1:

Average throughput: 158.65 Mbit/s

95th percentile per-packet one-way delay: 55.573 ms

Loss rate: 0.33%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-16 06:26:14

End at: 2018-02-16 06:26:44

Below is generated by plot.py at 2018-02-16 11:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.45 Mbit/s

95th percentile per-packet one-way delay: 57.896 ms

Loss rate: 0.37%

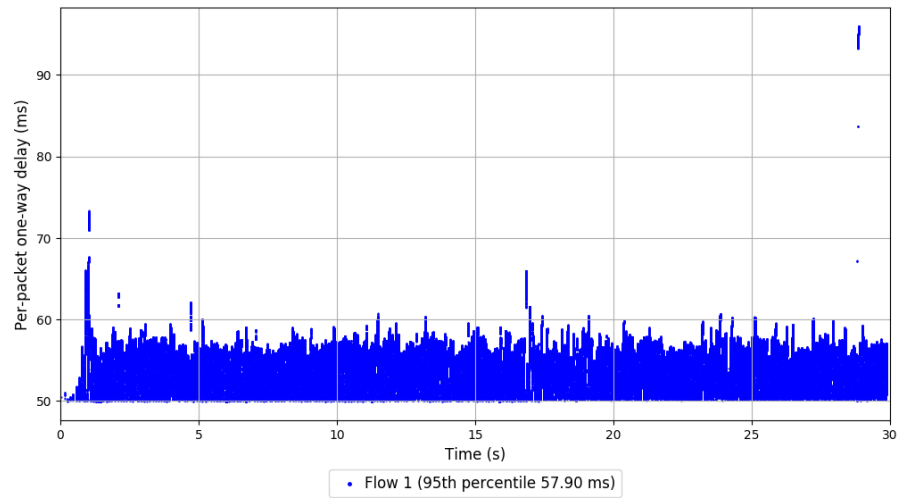
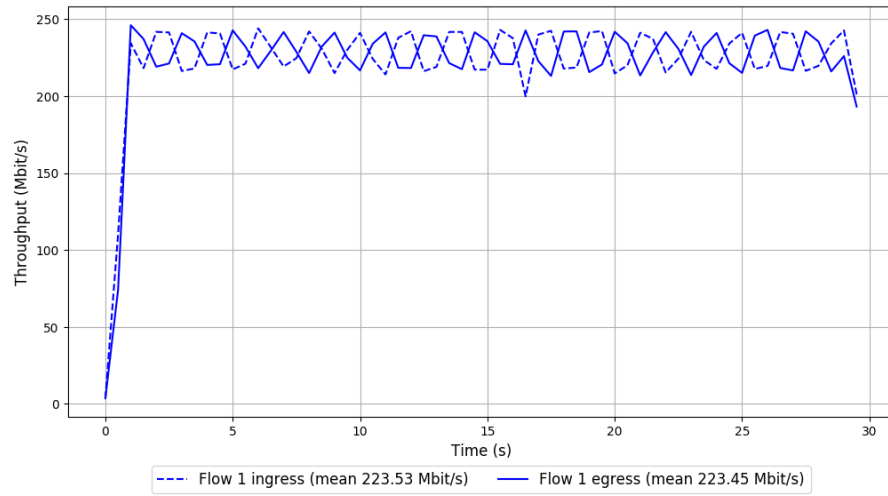
-- Flow 1:

Average throughput: 223.45 Mbit/s

95th percentile per-packet one-way delay: 57.896 ms

Loss rate: 0.37%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-16 06:40:42

End at: 2018-02-16 06:41:12

Below is generated by plot.py at 2018-02-16 11:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.81 Mbit/s

95th percentile per-packet one-way delay: 57.622 ms

Loss rate: 0.33%

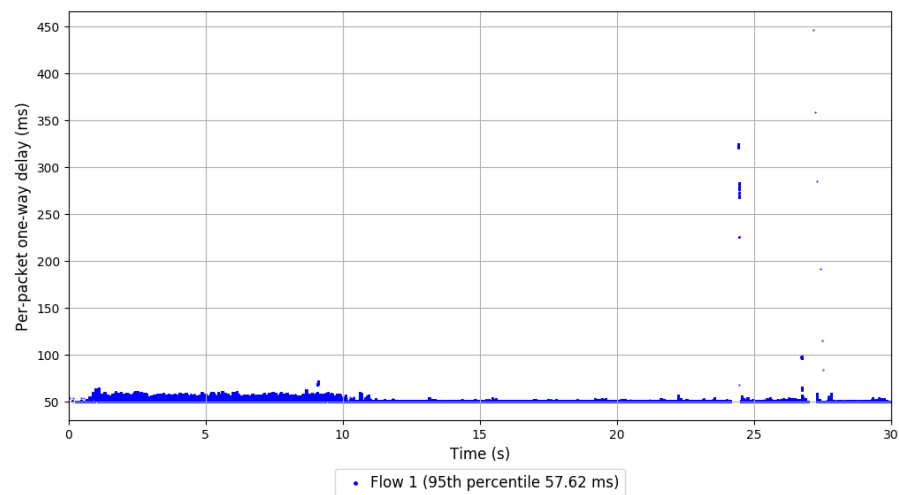
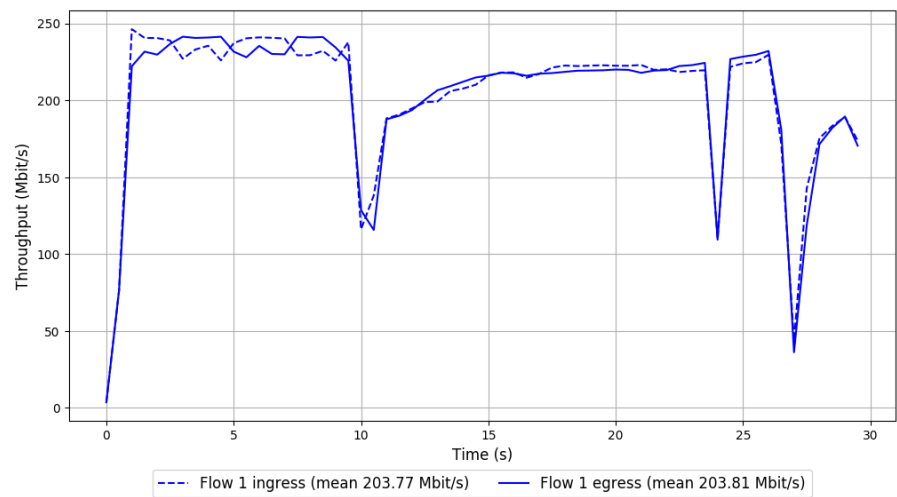
-- Flow 1:

Average throughput: 203.81 Mbit/s

95th percentile per-packet one-way delay: 57.622 ms

Loss rate: 0.33%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-16 06:55:29

End at: 2018-02-16 06:55:59

Below is generated by plot.py at 2018-02-16 11:09:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.82 Mbit/s

95th percentile per-packet one-way delay: 58.632 ms

Loss rate: 0.24%

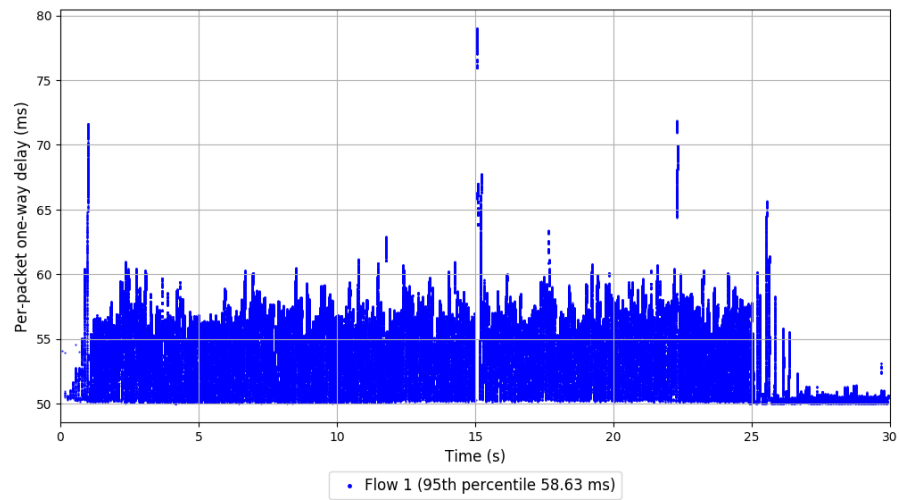
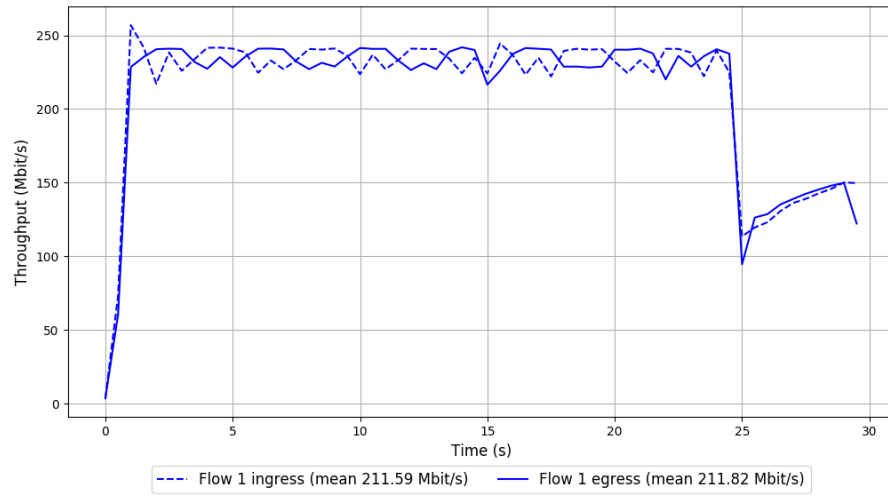
-- Flow 1:

Average throughput: 211.82 Mbit/s

95th percentile per-packet one-way delay: 58.632 ms

Loss rate: 0.24%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-16 07:10:09

End at: 2018-02-16 07:10:39

Below is generated by plot.py at 2018-02-16 11:09:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.85 Mbit/s

95th percentile per-packet one-way delay: 58.779 ms

Loss rate: 0.21%

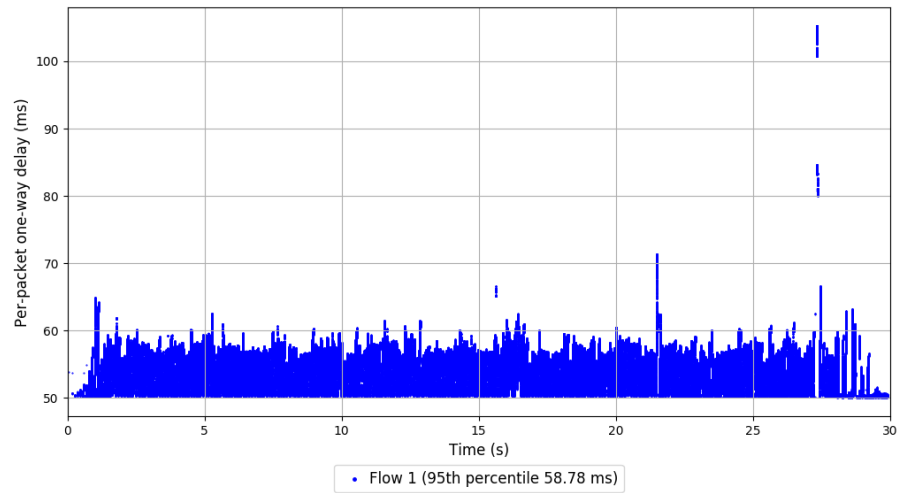
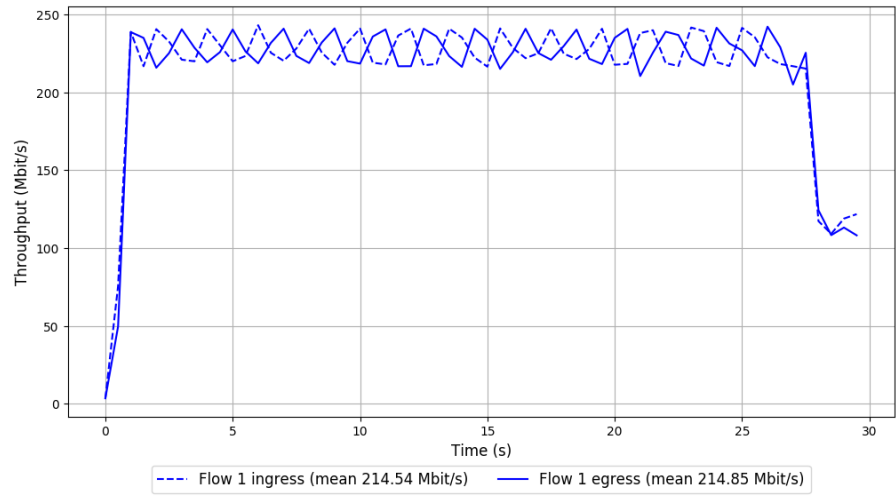
-- Flow 1:

Average throughput: 214.85 Mbit/s

95th percentile per-packet one-way delay: 58.779 ms

Loss rate: 0.21%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-16 07:25:04

End at: 2018-02-16 07:25:34

Below is generated by plot.py at 2018-02-16 11:09:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.77 Mbit/s

95th percentile per-packet one-way delay: 58.596 ms

Loss rate: 0.25%

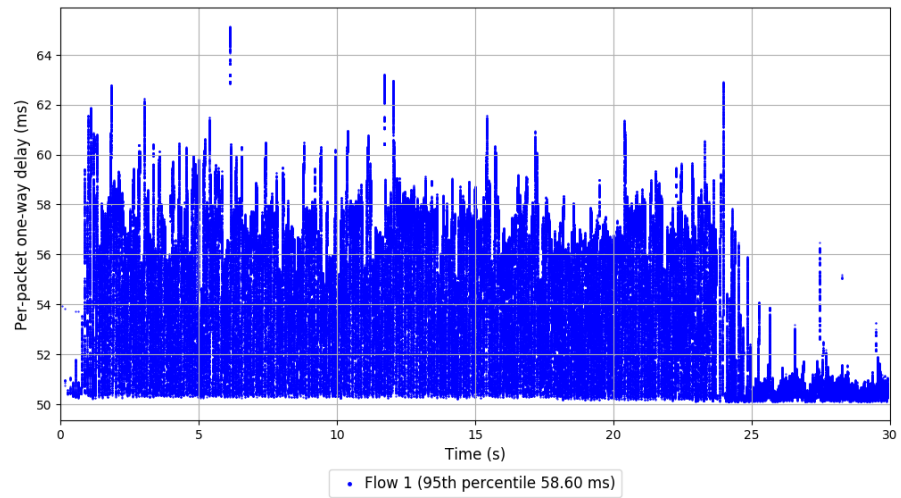
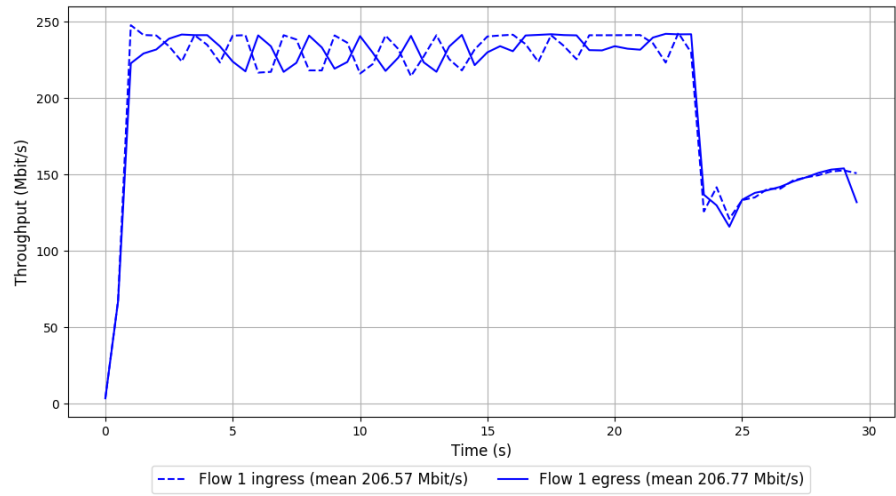
-- Flow 1:

Average throughput: 206.77 Mbit/s

95th percentile per-packet one-way delay: 58.596 ms

Loss rate: 0.25%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-16 07:39:41

End at: 2018-02-16 07:40:11

Below is generated by plot.py at 2018-02-16 11:12:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 159.28 Mbit/s

95th percentile per-packet one-way delay: 56.798 ms

Loss rate: 0.51%

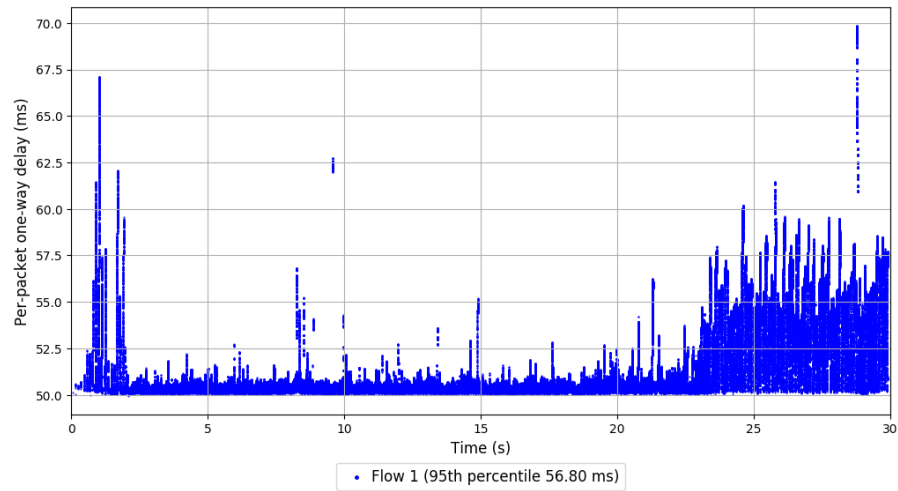
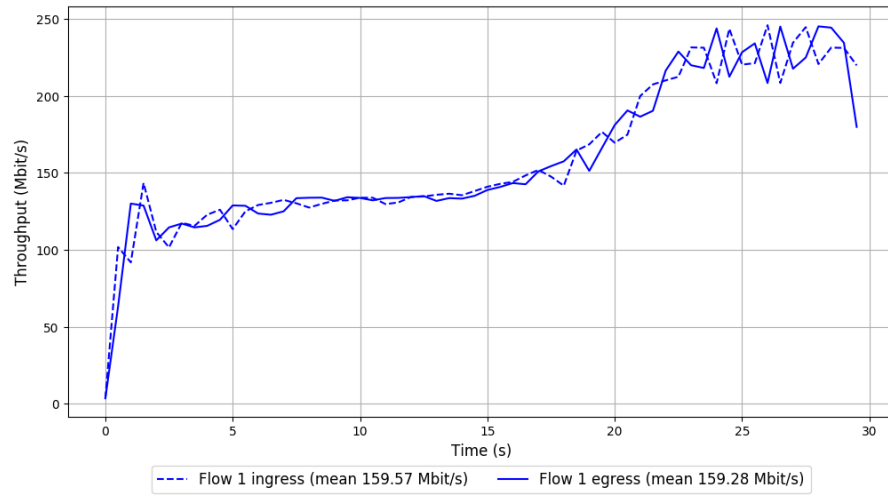
-- Flow 1:

Average throughput: 159.28 Mbit/s

95th percentile per-packet one-way delay: 56.798 ms

Loss rate: 0.51%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-16 07:54:10

End at: 2018-02-16 07:54:40

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 186.75 Mbit/s

95th percentile per-packet one-way delay: 58.152 ms

Loss rate: 0.29%

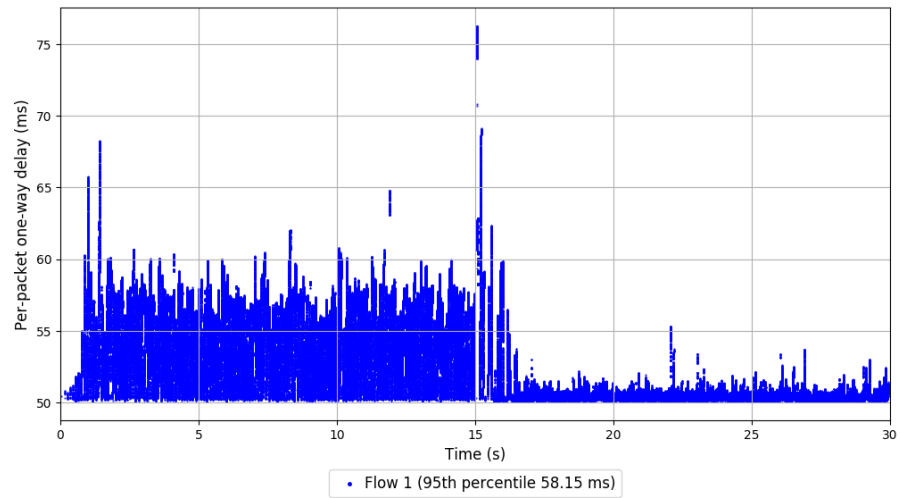
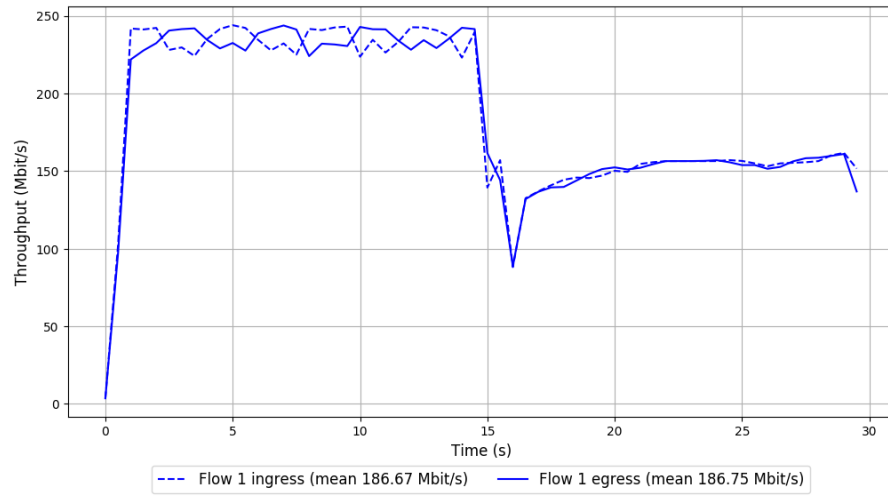
-- Flow 1:

Average throughput: 186.75 Mbit/s

95th percentile per-packet one-way delay: 58.152 ms

Loss rate: 0.29%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-16 08:08:28

End at: 2018-02-16 08:08:58

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.77 Mbit/s

95th percentile per-packet one-way delay: 57.556 ms

Loss rate: 0.36%

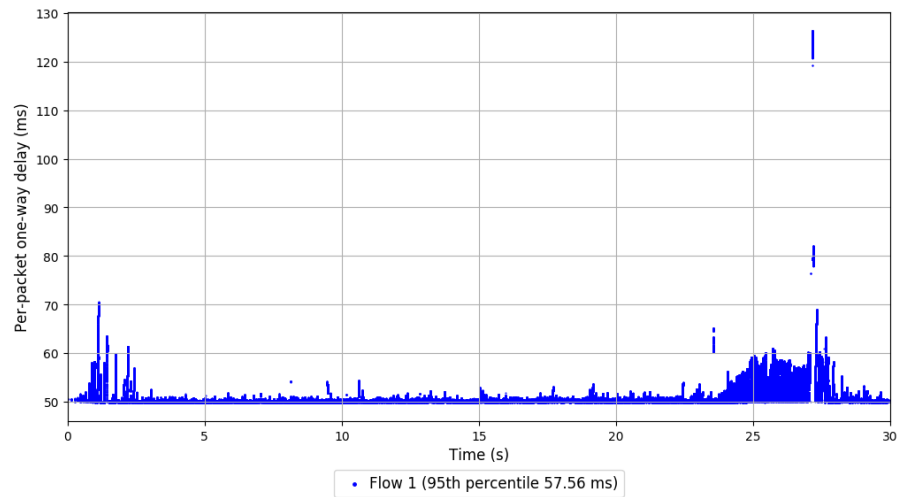
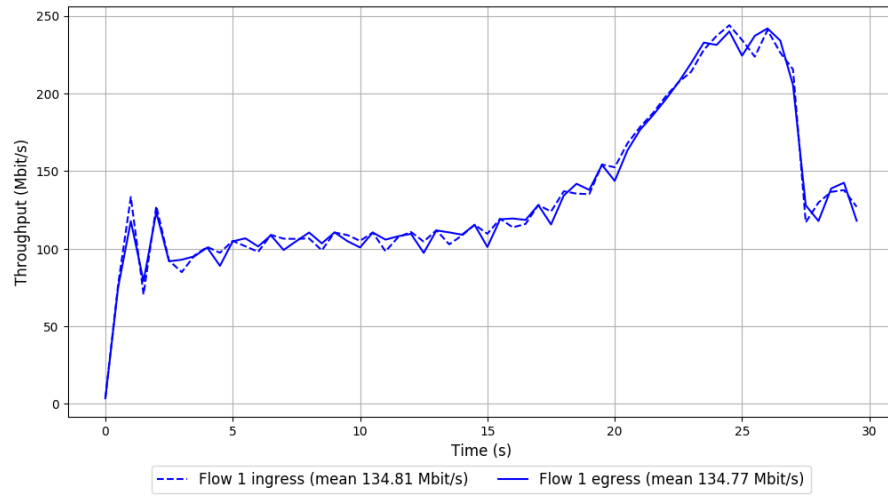
-- Flow 1:

Average throughput: 134.77 Mbit/s

95th percentile per-packet one-way delay: 57.556 ms

Loss rate: 0.36%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-16 08:23:18

End at: 2018-02-16 08:23:48

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.65 Mbit/s

95th percentile per-packet one-way delay: 56.905 ms

Loss rate: 0.30%

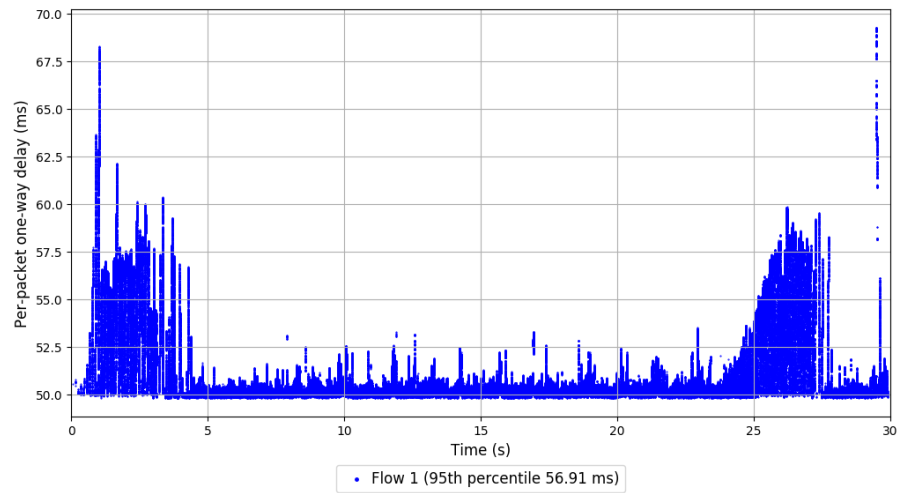
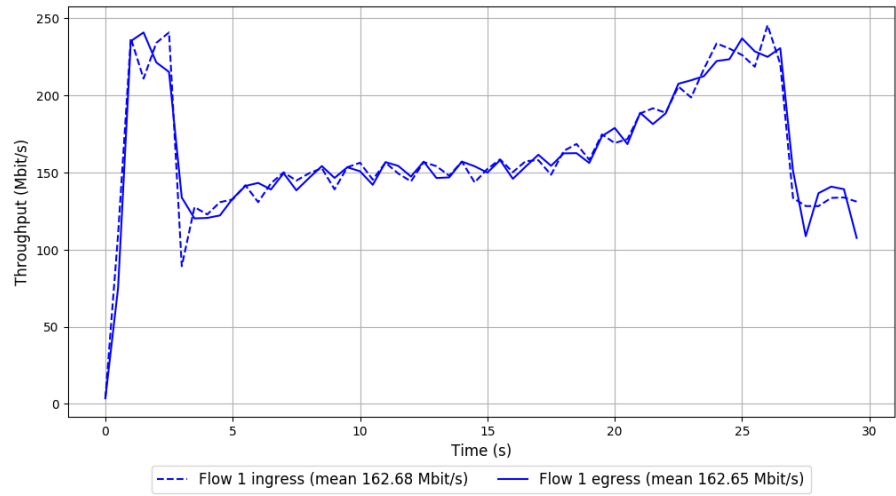
-- Flow 1:

Average throughput: 162.65 Mbit/s

95th percentile per-packet one-way delay: 56.905 ms

Loss rate: 0.30%

Run 10: Report of TCP Cubic — Data Link

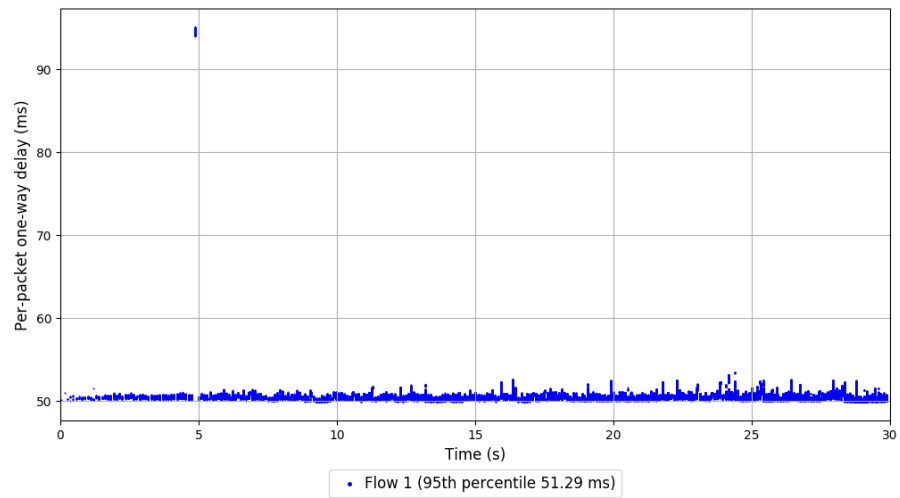
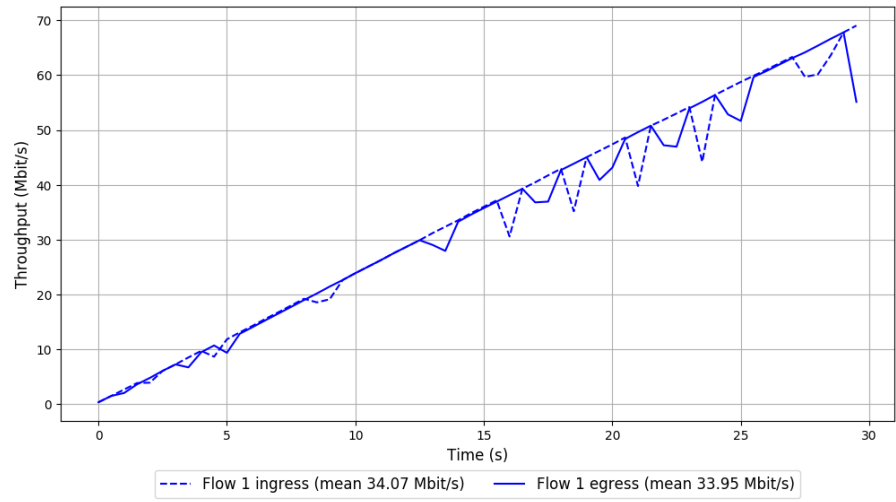


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-16 06:09:03
End at: 2018-02-16 06:09:33

# Below is generated by plot.py at 2018-02-16 11:12:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 51.291 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 33.95 Mbit/s
95th percentile per-packet one-way delay: 51.291 ms
Loss rate: 0.68%
```

Run 1: Report of LEDBAT — Data Link

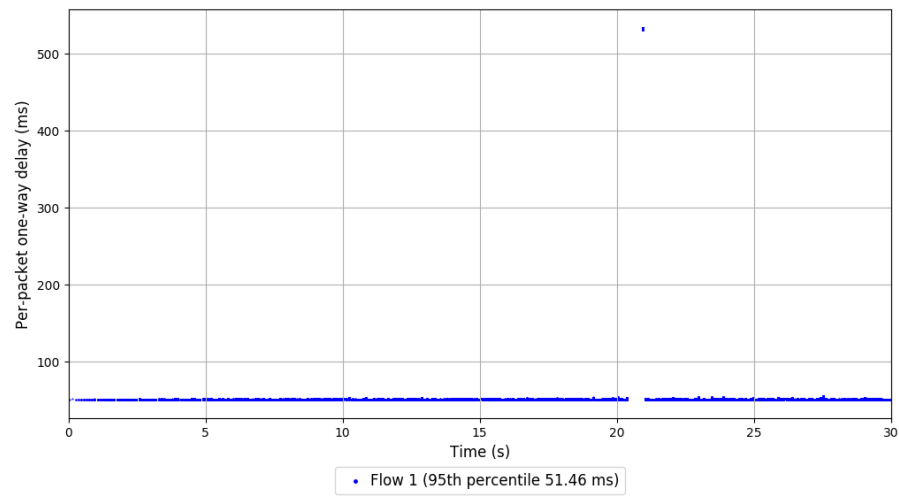
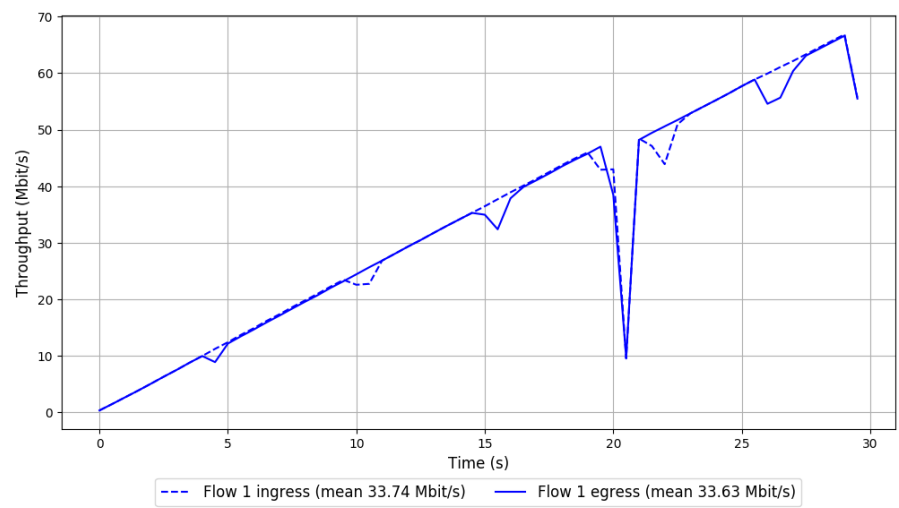


```
Run 2: Statistics of LEDBAT

Start at: 2018-02-16 06:23:45
End at: 2018-02-16 06:24:15

# Below is generated by plot.py at 2018-02-16 11:12:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 33.63 Mbit/s
95th percentile per-packet one-way delay: 51.456 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 33.63 Mbit/s
95th percentile per-packet one-way delay: 51.456 ms
Loss rate: 0.67%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-16 06:38:27

End at: 2018-02-16 06:38:57

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 51.857 ms

Loss rate: 0.67%

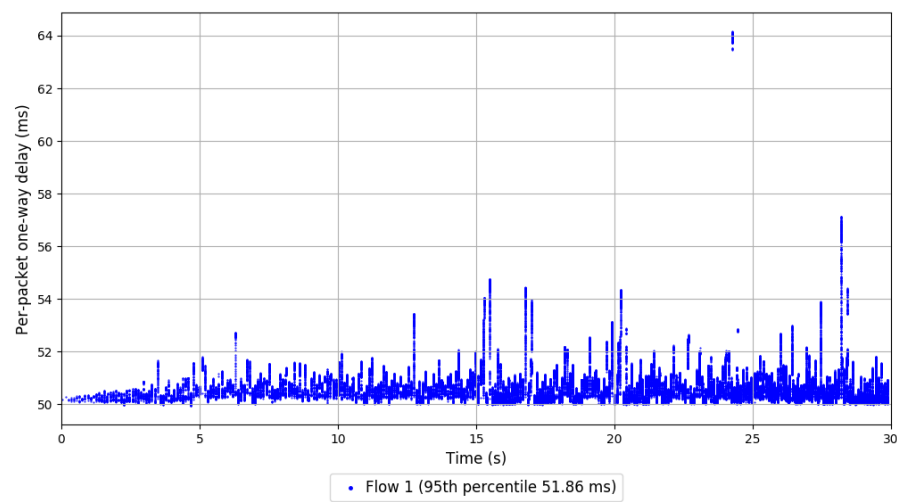
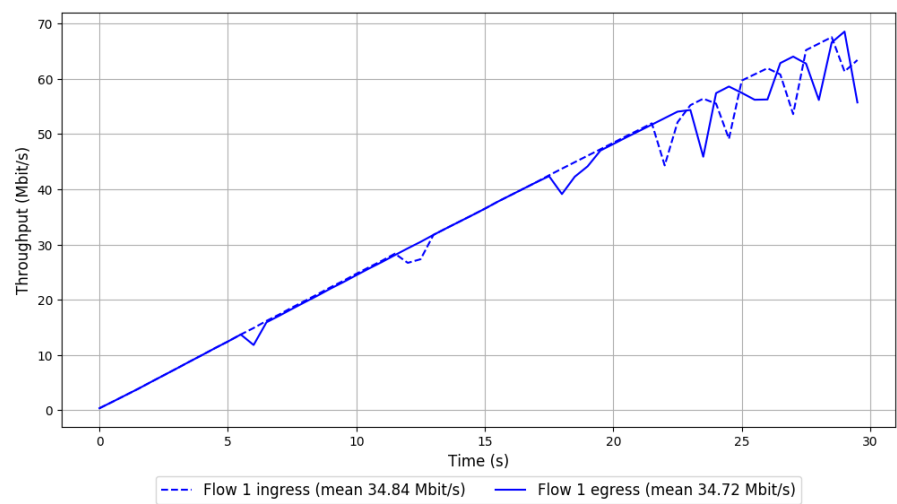
-- Flow 1:

Average throughput: 34.72 Mbit/s

95th percentile per-packet one-way delay: 51.857 ms

Loss rate: 0.67%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-16 06:53:13

End at: 2018-02-16 06:53:43

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.37 Mbit/s

95th percentile per-packet one-way delay: 51.486 ms

Loss rate: 0.69%

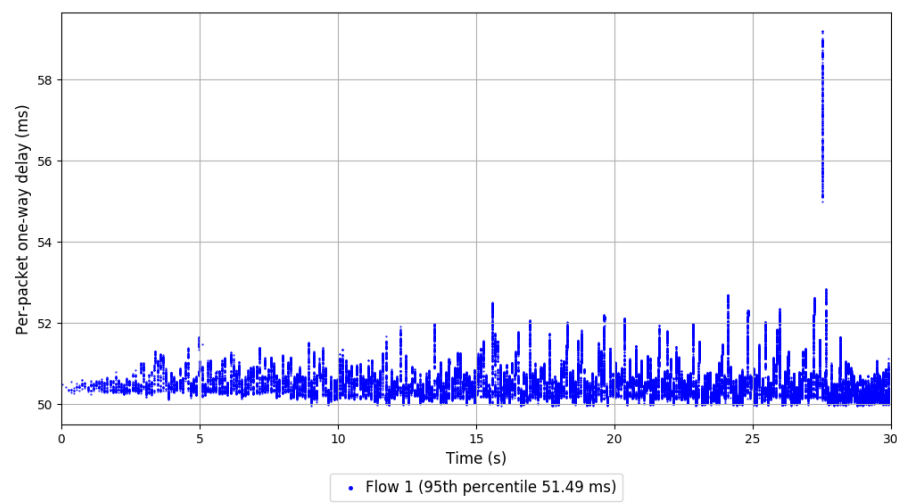
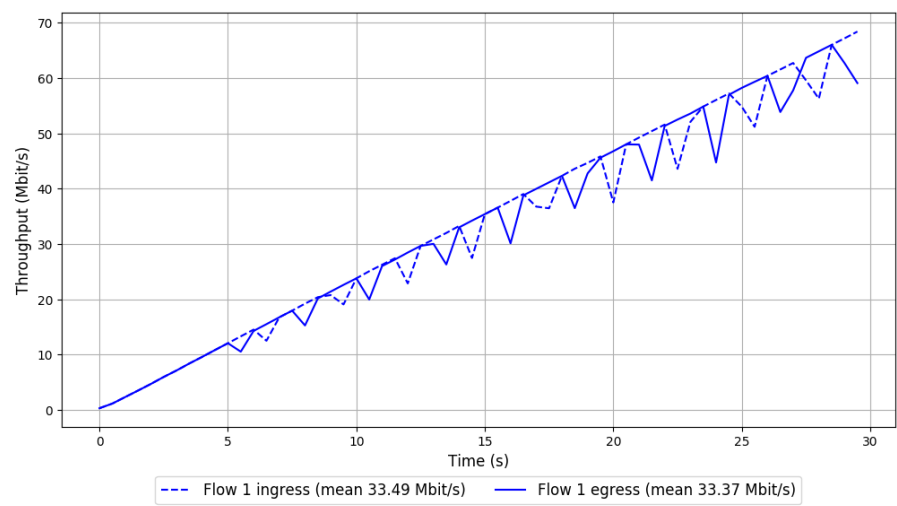
-- Flow 1:

Average throughput: 33.37 Mbit/s

95th percentile per-packet one-way delay: 51.486 ms

Loss rate: 0.69%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-16 07:07:42

End at: 2018-02-16 07:08:12

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 51.377 ms

Loss rate: 0.69%

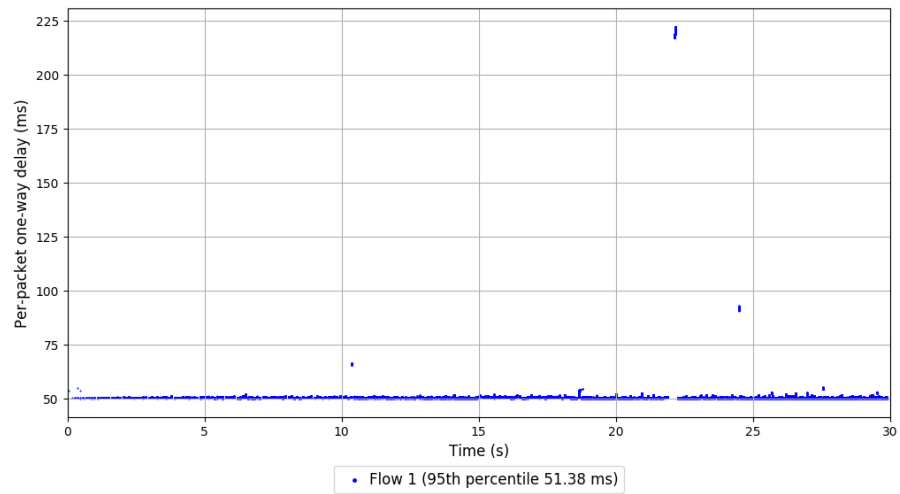
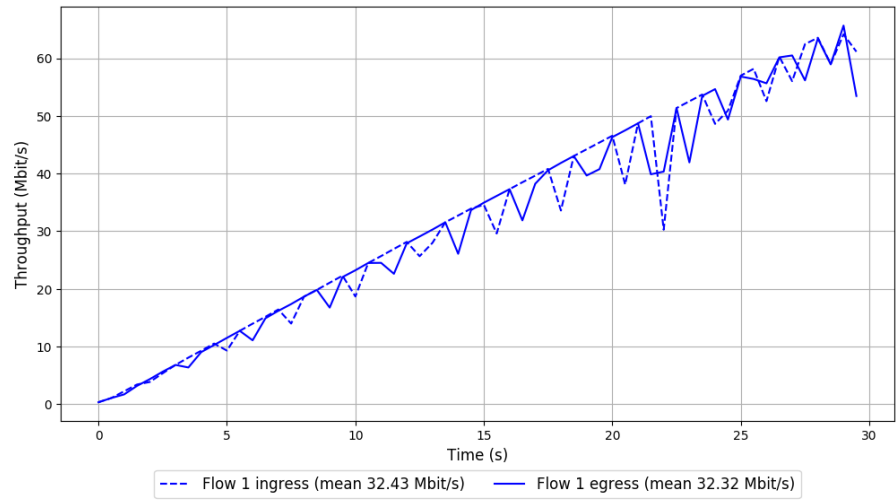
-- Flow 1:

Average throughput: 32.32 Mbit/s

95th percentile per-packet one-way delay: 51.377 ms

Loss rate: 0.69%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-16 07:22:36

End at: 2018-02-16 07:23:06

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 52.085 ms

Loss rate: 0.64%

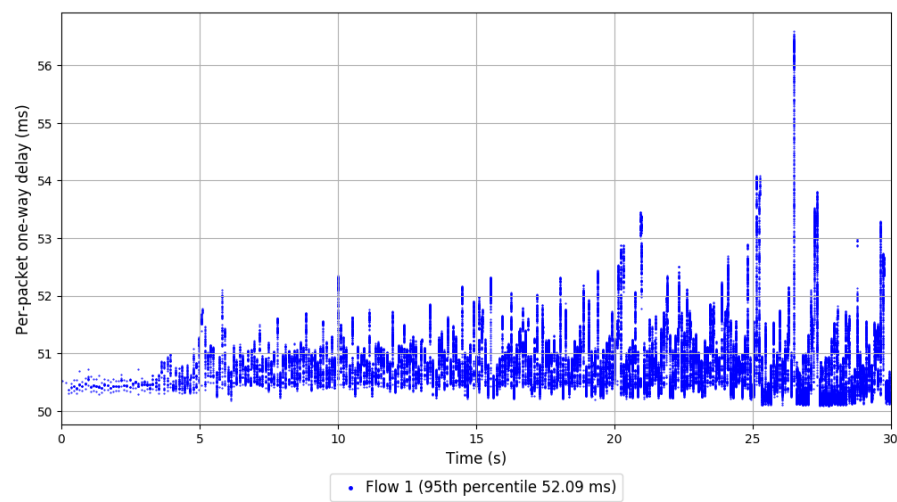
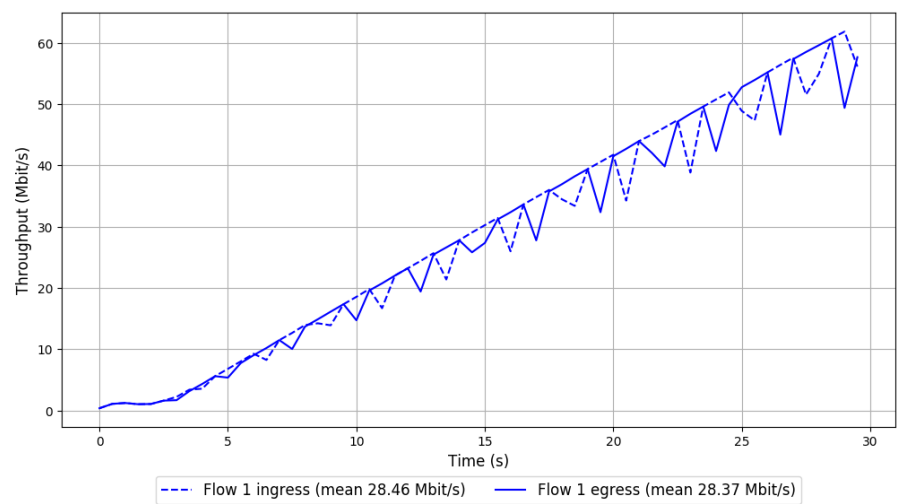
-- Flow 1:

Average throughput: 28.37 Mbit/s

95th percentile per-packet one-way delay: 52.085 ms

Loss rate: 0.64%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-16 07:37:30

End at: 2018-02-16 07:38:00

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.67%

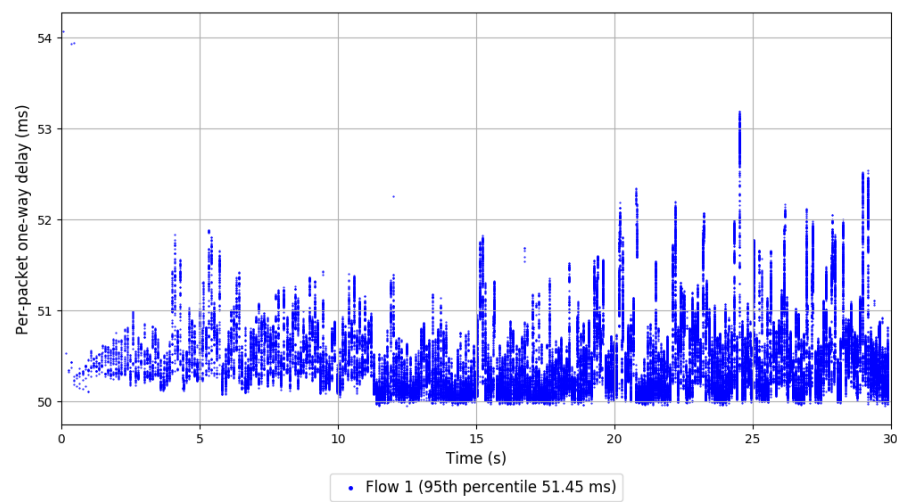
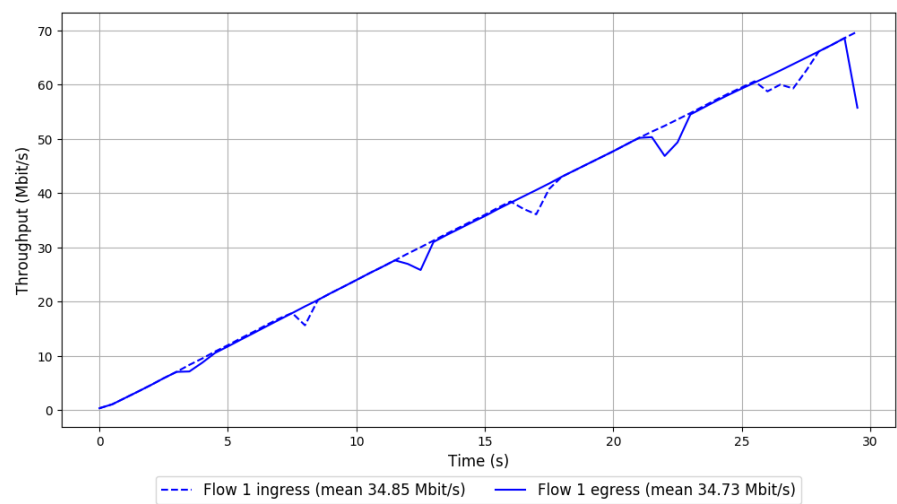
-- Flow 1:

Average throughput: 34.73 Mbit/s

95th percentile per-packet one-way delay: 51.448 ms

Loss rate: 0.67%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-16 07:51:57

End at: 2018-02-16 07:52:27

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.84 Mbit/s

95th percentile per-packet one-way delay: 51.534 ms

Loss rate: 0.69%

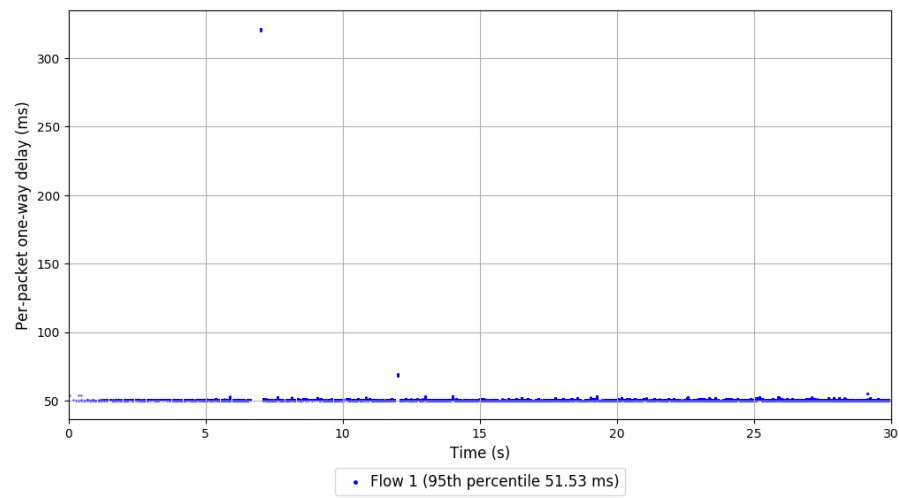
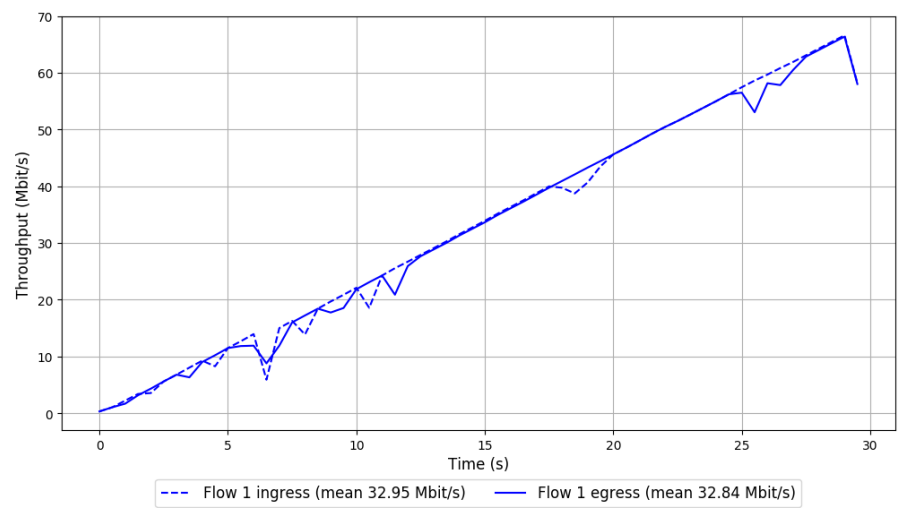
-- Flow 1:

Average throughput: 32.84 Mbit/s

95th percentile per-packet one-way delay: 51.534 ms

Loss rate: 0.69%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-16 08:06:16

End at: 2018-02-16 08:06:46

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 51.174 ms

Loss rate: 0.71%

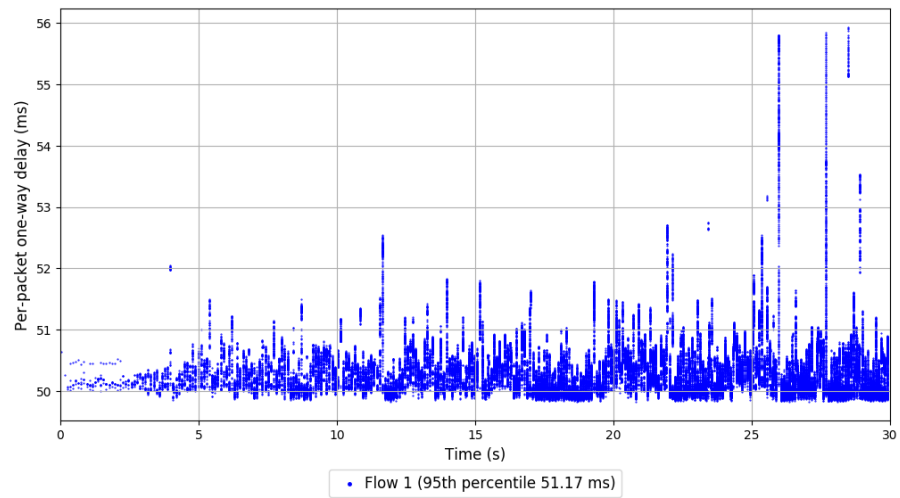
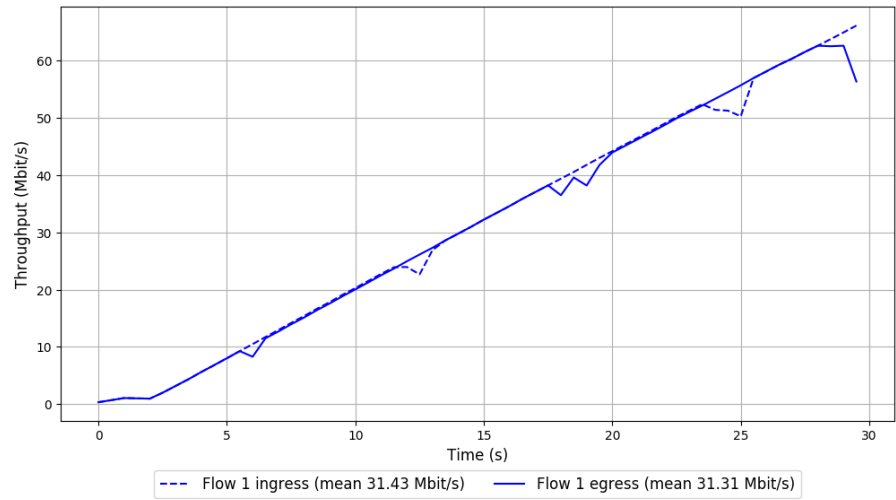
-- Flow 1:

Average throughput: 31.31 Mbit/s

95th percentile per-packet one-way delay: 51.174 ms

Loss rate: 0.71%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-16 08:20:50

End at: 2018-02-16 08:21:20

Below is generated by plot.py at 2018-02-16 11:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 0.67%

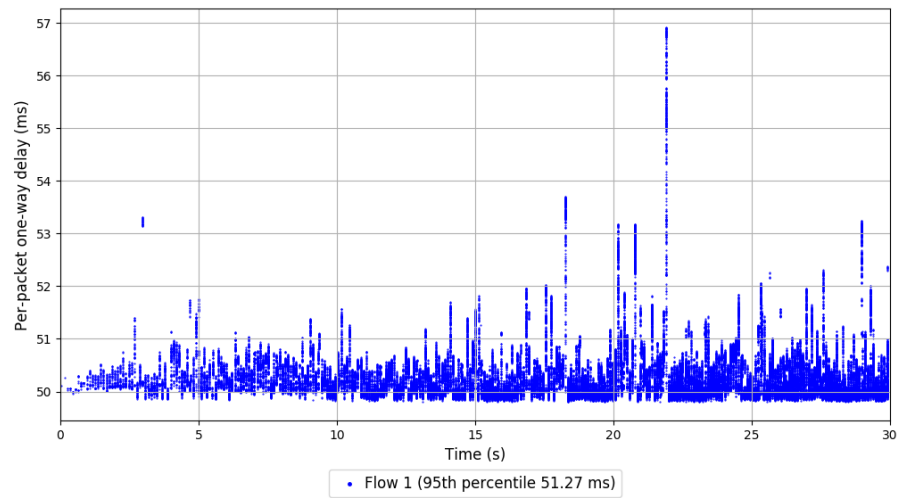
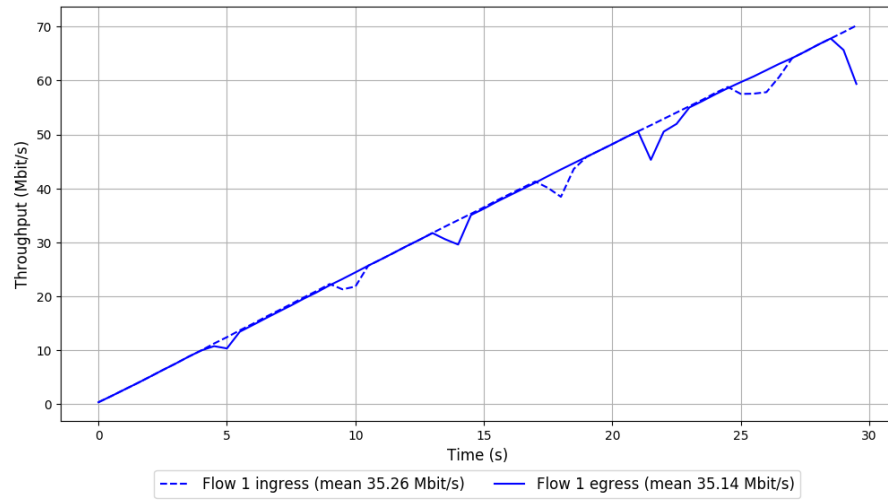
-- Flow 1:

Average throughput: 35.14 Mbit/s

95th percentile per-packet one-way delay: 51.265 ms

Loss rate: 0.67%

Run 10: Report of LEDBAT — Data Link

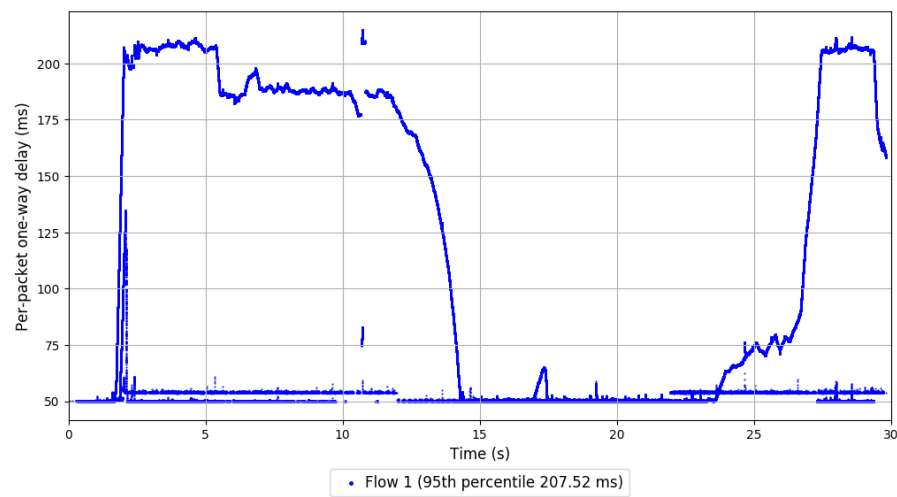
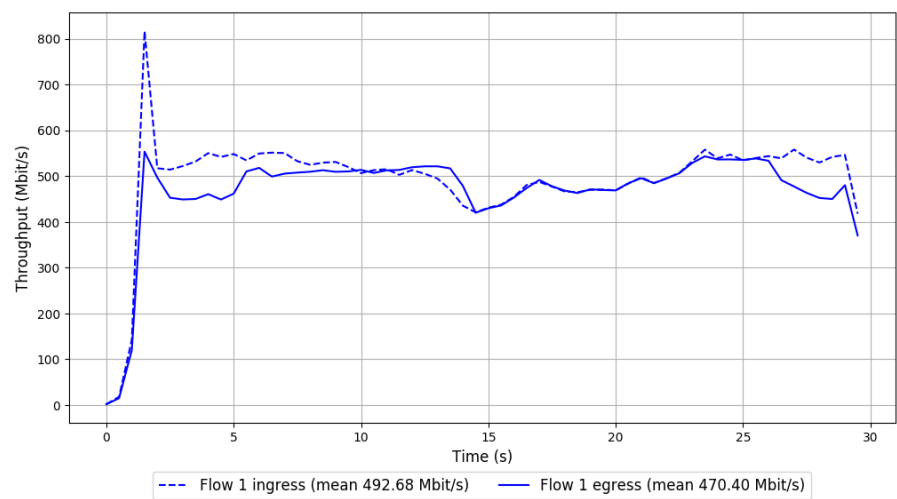


```
Run 1: Statistics of PCC

Start at: 2018-02-16 06:14:19
End at: 2018-02-16 06:14:49

# Below is generated by plot.py at 2018-02-16 11:19:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 470.40 Mbit/s
95th percentile per-packet one-way delay: 207.523 ms
Loss rate: 4.85%
-- Flow 1:
Average throughput: 470.40 Mbit/s
95th percentile per-packet one-way delay: 207.523 ms
Loss rate: 4.85%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-16 06:29:08

End at: 2018-02-16 06:29:38

Below is generated by plot.py at 2018-02-16 11:19:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.23 Mbit/s

95th percentile per-packet one-way delay: 203.196 ms

Loss rate: 2.03%

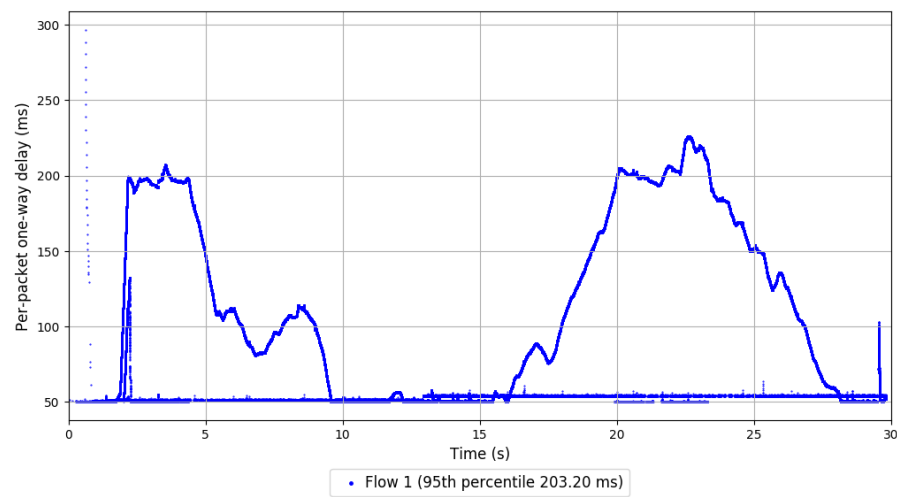
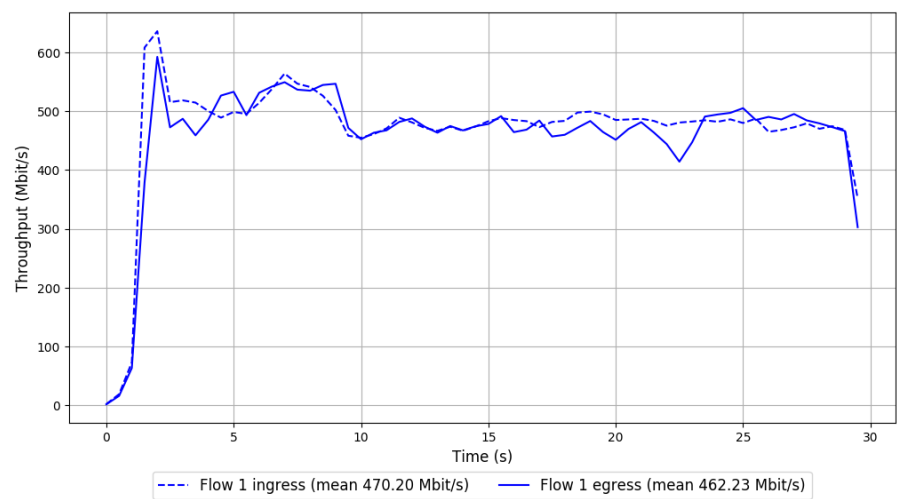
-- Flow 1:

Average throughput: 462.23 Mbit/s

95th percentile per-packet one-way delay: 203.196 ms

Loss rate: 2.03%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-16 06:43:52

End at: 2018-02-16 06:44:22

Below is generated by plot.py at 2018-02-16 11:19:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.72 Mbit/s

95th percentile per-packet one-way delay: 206.349 ms

Loss rate: 1.05%

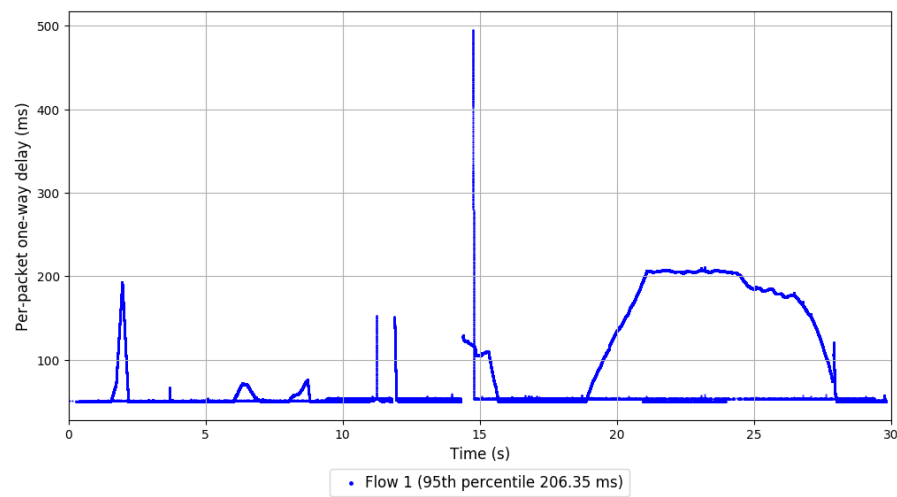
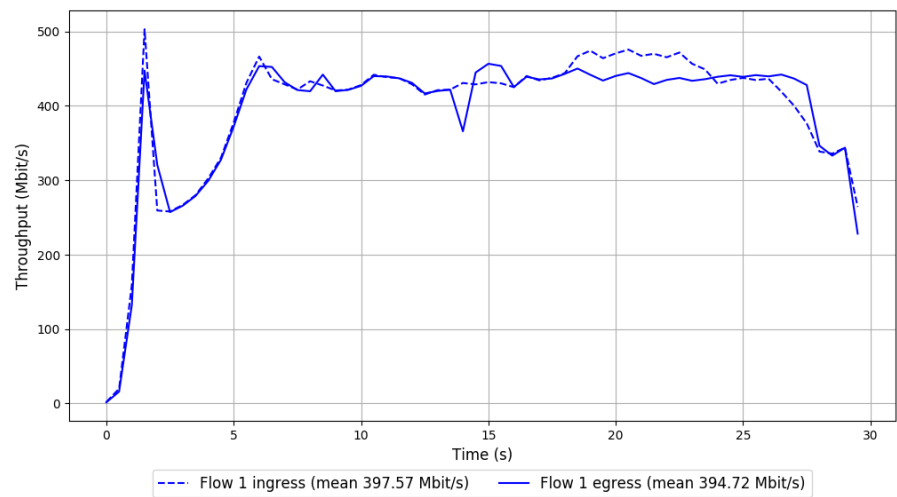
-- Flow 1:

Average throughput: 394.72 Mbit/s

95th percentile per-packet one-way delay: 206.349 ms

Loss rate: 1.05%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-16 06:58:25

End at: 2018-02-16 06:58:55

Below is generated by plot.py at 2018-02-16 11:19:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.54 Mbit/s

95th percentile per-packet one-way delay: 206.431 ms

Loss rate: 2.76%

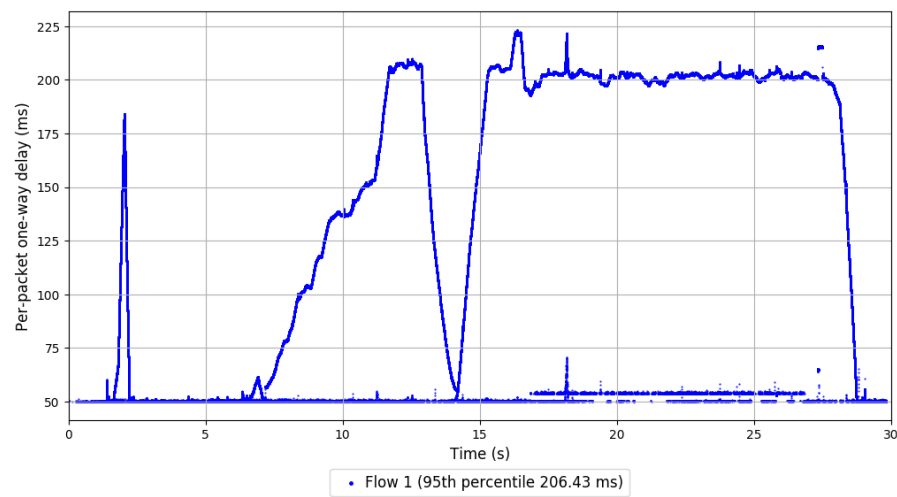
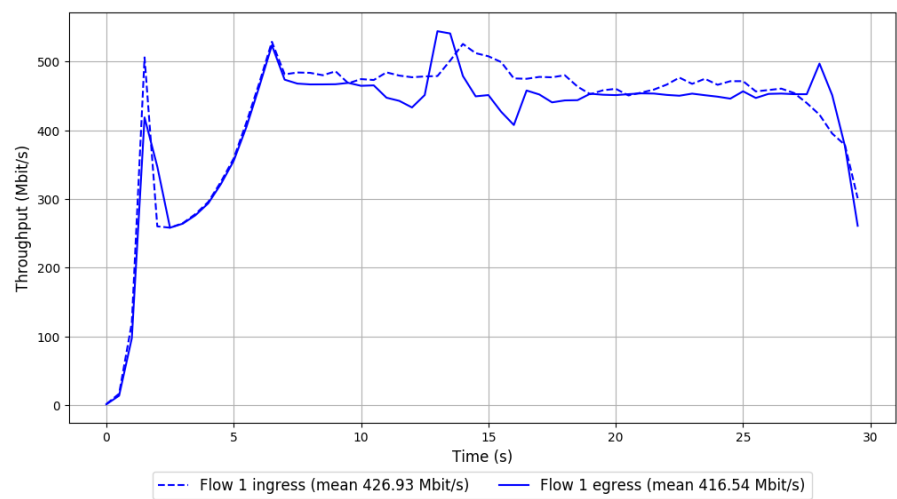
-- Flow 1:

Average throughput: 416.54 Mbit/s

95th percentile per-packet one-way delay: 206.431 ms

Loss rate: 2.76%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-16 07:13:05

End at: 2018-02-16 07:13:35

Below is generated by plot.py at 2018-02-16 11:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.86 Mbit/s

95th percentile per-packet one-way delay: 191.699 ms

Loss rate: 1.21%

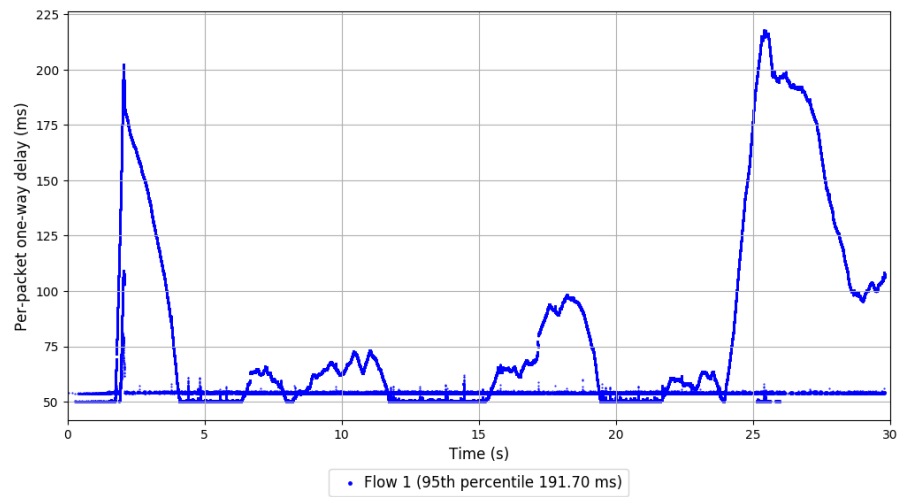
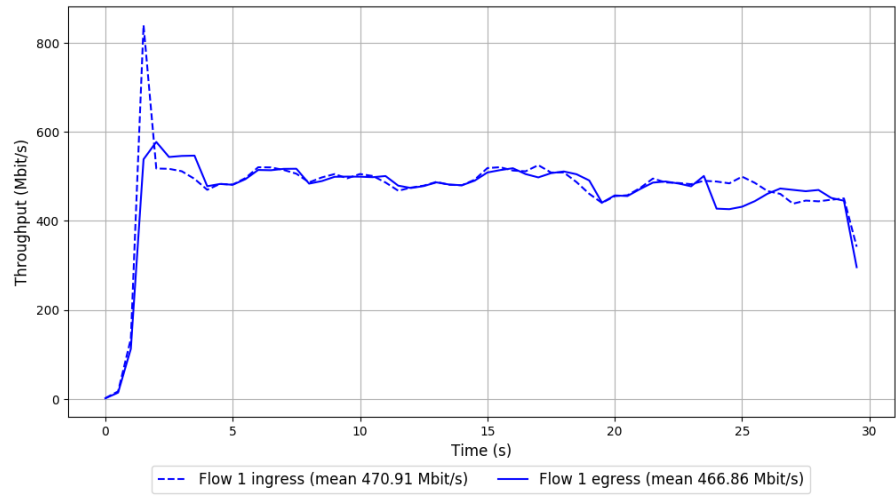
-- Flow 1:

Average throughput: 466.86 Mbit/s

95th percentile per-packet one-way delay: 191.699 ms

Loss rate: 1.21%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-16 07:27:58

End at: 2018-02-16 07:28:29

Below is generated by plot.py at 2018-02-16 11:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.30 Mbit/s

95th percentile per-packet one-way delay: 199.222 ms

Loss rate: 1.73%

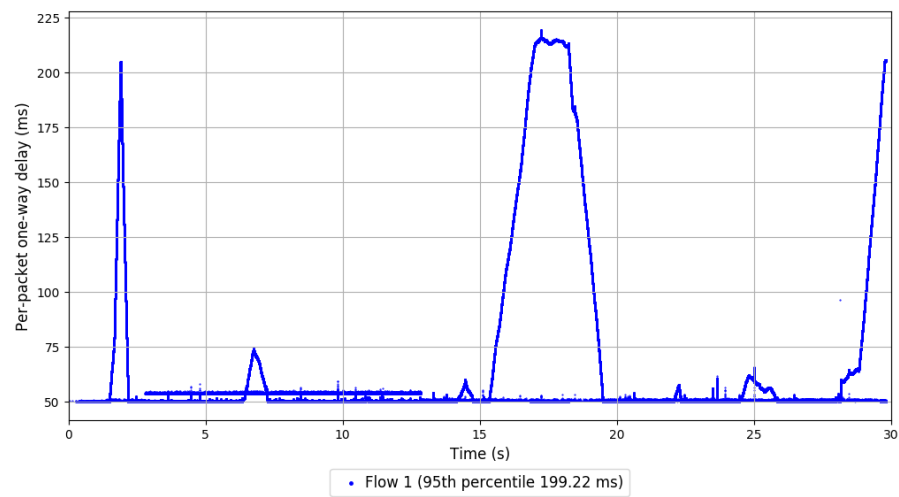
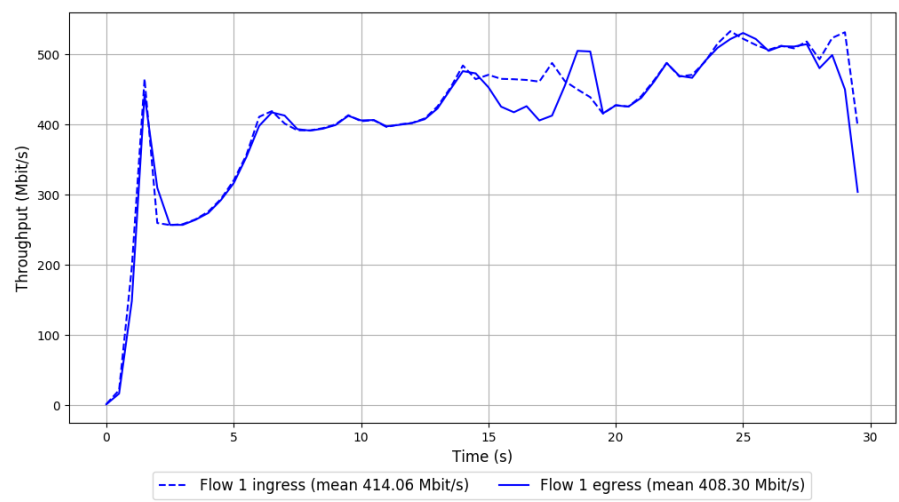
-- Flow 1:

Average throughput: 408.30 Mbit/s

95th percentile per-packet one-way delay: 199.222 ms

Loss rate: 1.73%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-16 07:42:33

End at: 2018-02-16 07:43:03

Below is generated by plot.py at 2018-02-16 11:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.79 Mbit/s

95th percentile per-packet one-way delay: 213.965 ms

Loss rate: 9.60%

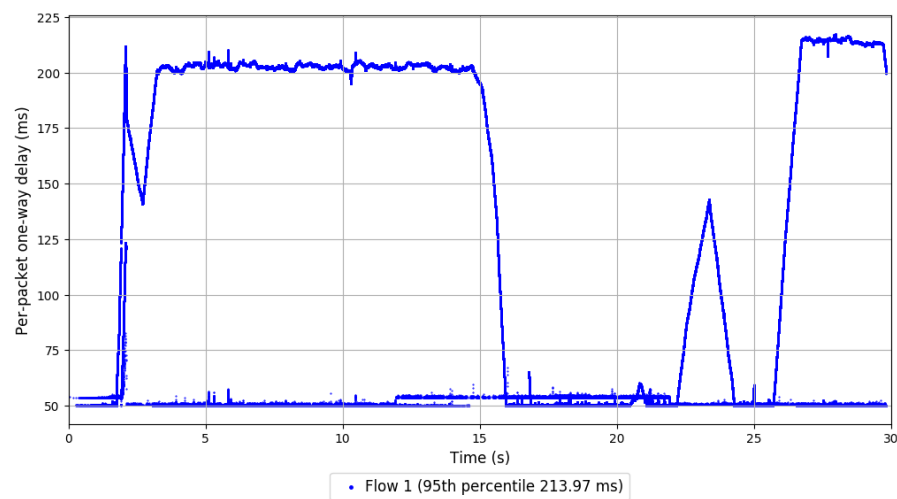
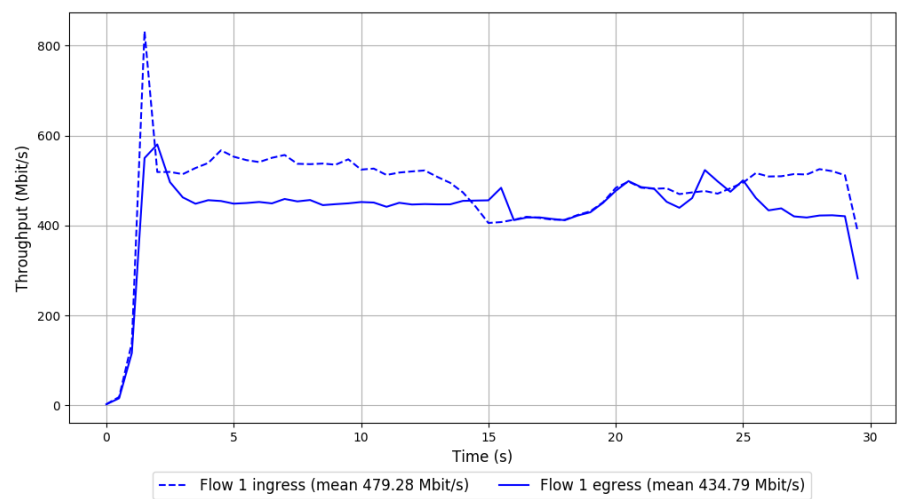
-- Flow 1:

Average throughput: 434.79 Mbit/s

95th percentile per-packet one-way delay: 213.965 ms

Loss rate: 9.60%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-16 07:57:02

End at: 2018-02-16 07:57:32

Below is generated by plot.py at 2018-02-16 11:20:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.38 Mbit/s

95th percentile per-packet one-way delay: 201.282 ms

Loss rate: 1.59%

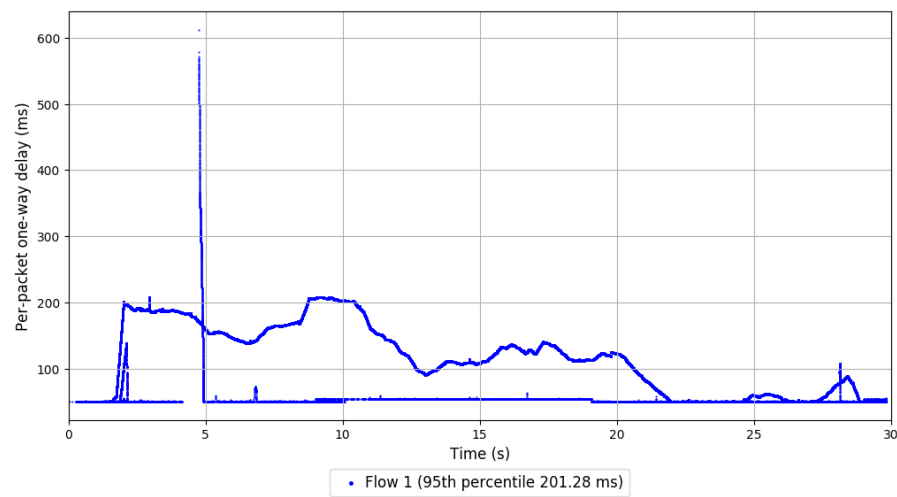
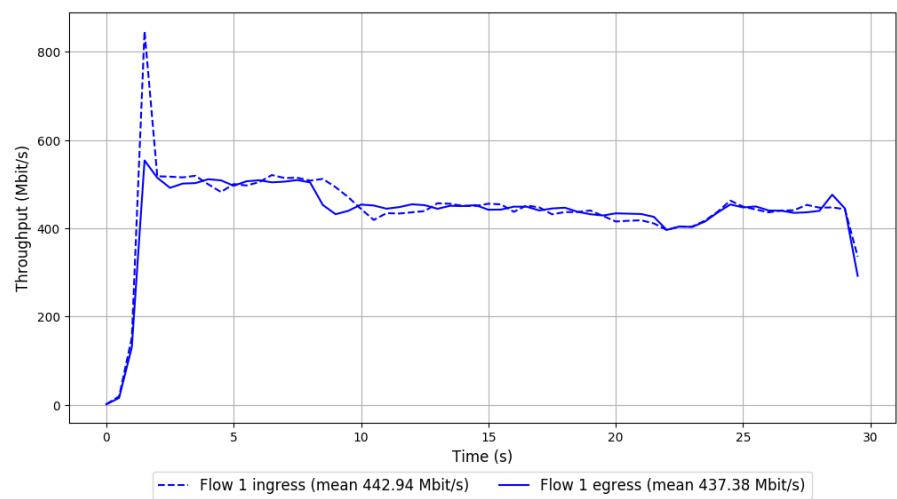
-- Flow 1:

Average throughput: 437.38 Mbit/s

95th percentile per-packet one-way delay: 201.282 ms

Loss rate: 1.59%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-16 08:11:35

End at: 2018-02-16 08:12:05

Below is generated by plot.py at 2018-02-16 11:25:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.14 Mbit/s

95th percentile per-packet one-way delay: 191.951 ms

Loss rate: 1.62%

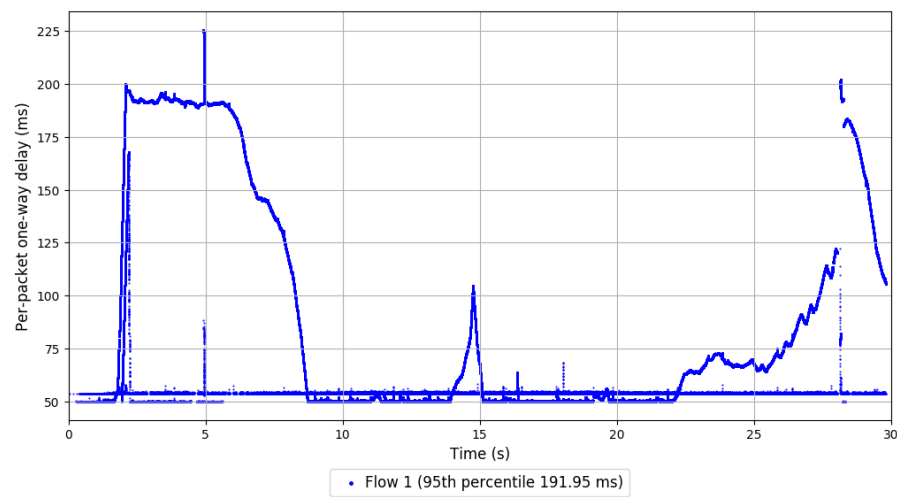
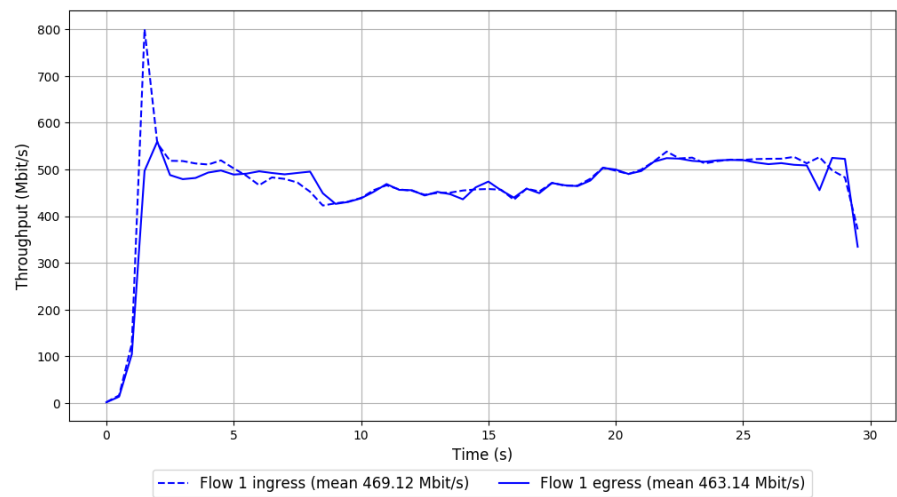
-- Flow 1:

Average throughput: 463.14 Mbit/s

95th percentile per-packet one-way delay: 191.951 ms

Loss rate: 1.62%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-16 08:26:08

End at: 2018-02-16 08:26:38

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.23 Mbit/s

95th percentile per-packet one-way delay: 191.809 ms

Loss rate: 3.03%

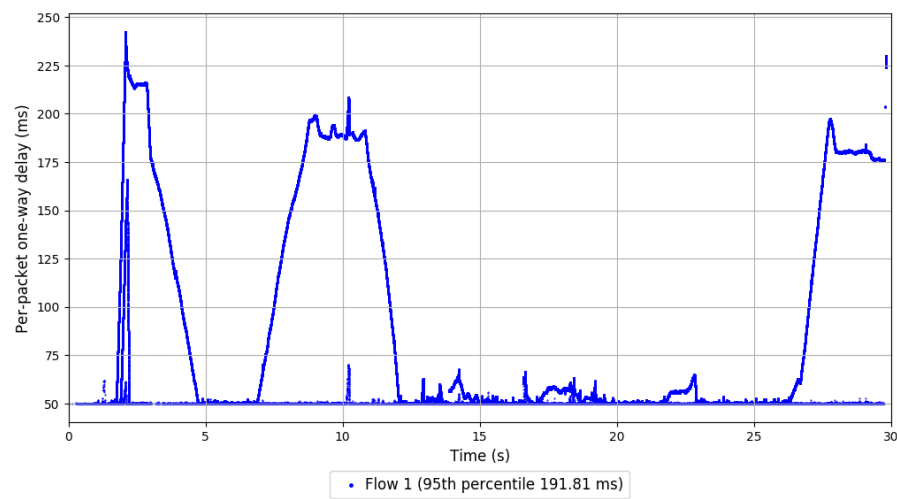
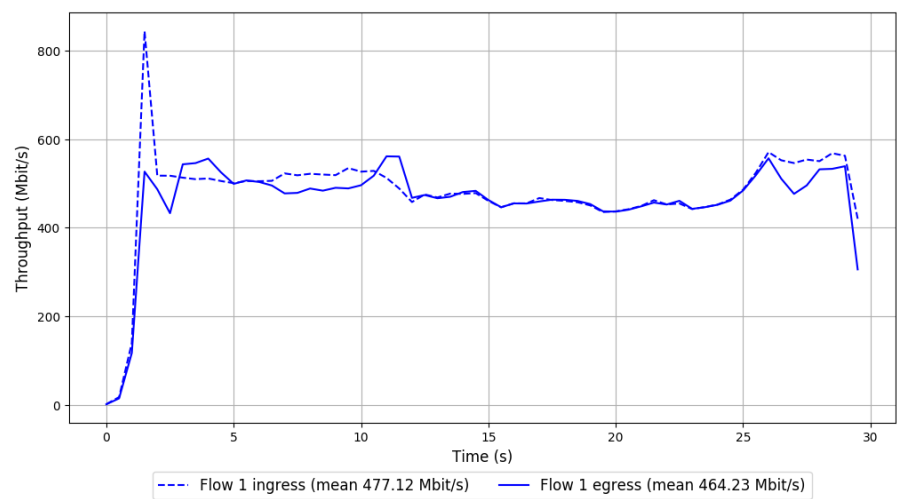
-- Flow 1:

Average throughput: 464.23 Mbit/s

95th percentile per-packet one-way delay: 191.809 ms

Loss rate: 3.03%

Run 10: Report of PCC — Data Link

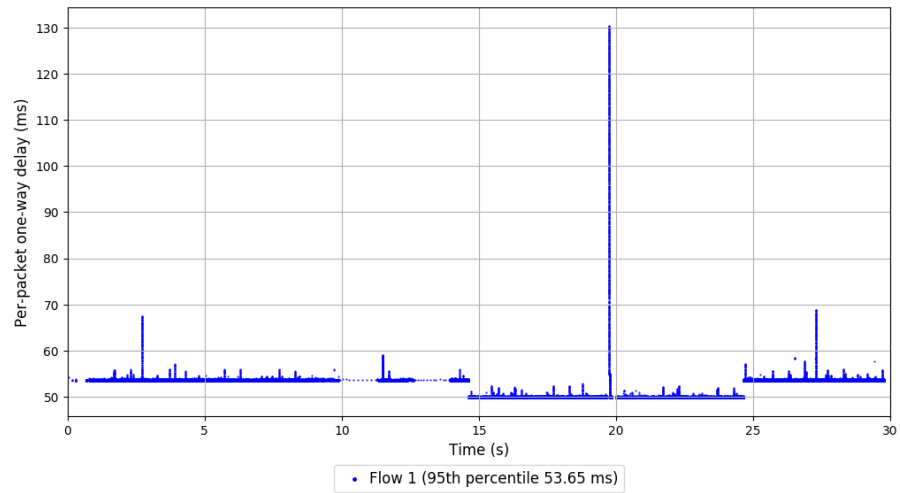
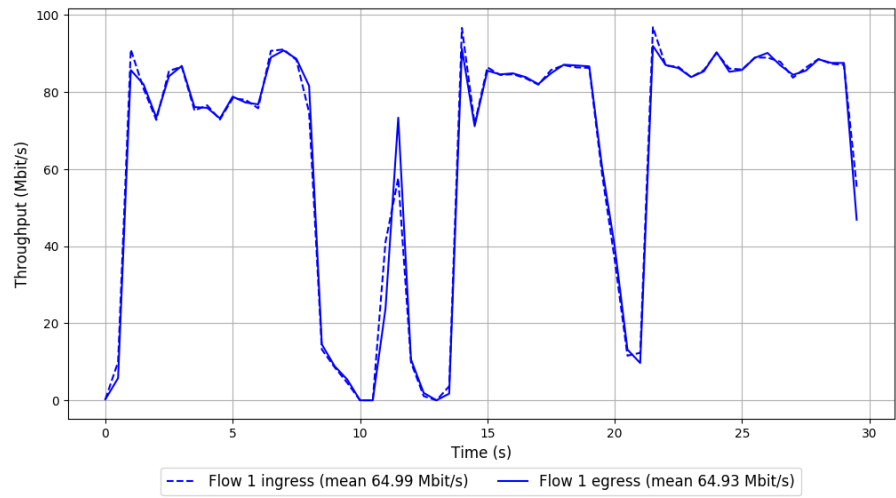


```
Run 1: Statistics of QUIC Cubic

Start at: 2018-02-16 06:07:47
End at: 2018-02-16 06:08:17

# Below is generated by plot.py at 2018-02-16 11:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 64.93 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 64.93 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.45%
```

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-16 06:22:29

End at: 2018-02-16 06:22:59

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.58%

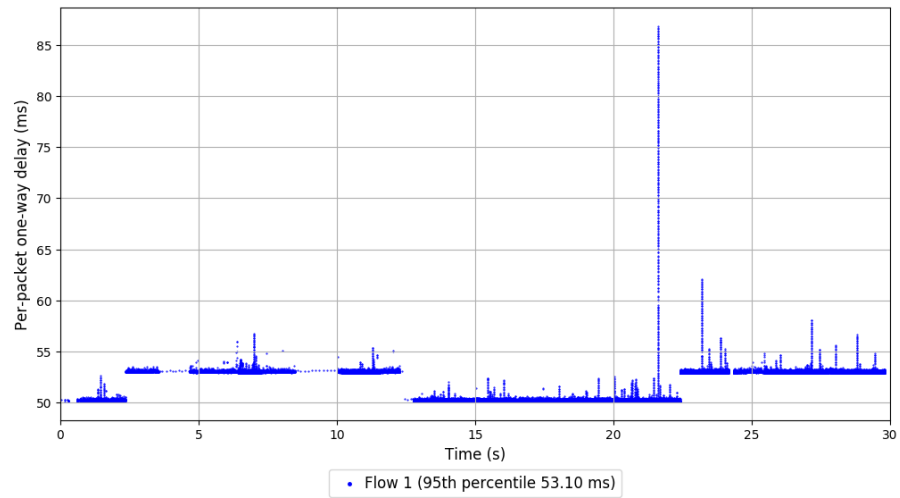
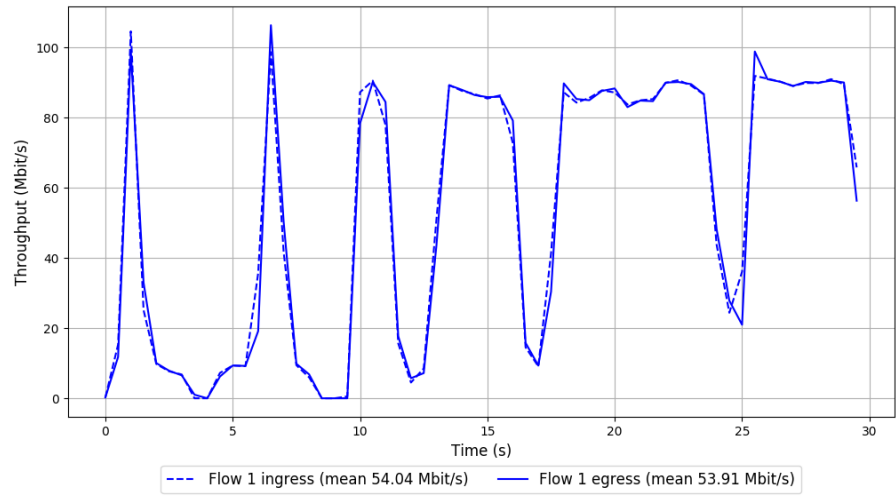
-- Flow 1:

Average throughput: 53.91 Mbit/s

95th percentile per-packet one-way delay: 53.104 ms

Loss rate: 0.58%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-16 06:37:10

End at: 2018-02-16 06:37:40

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 53.579 ms

Loss rate: 0.51%

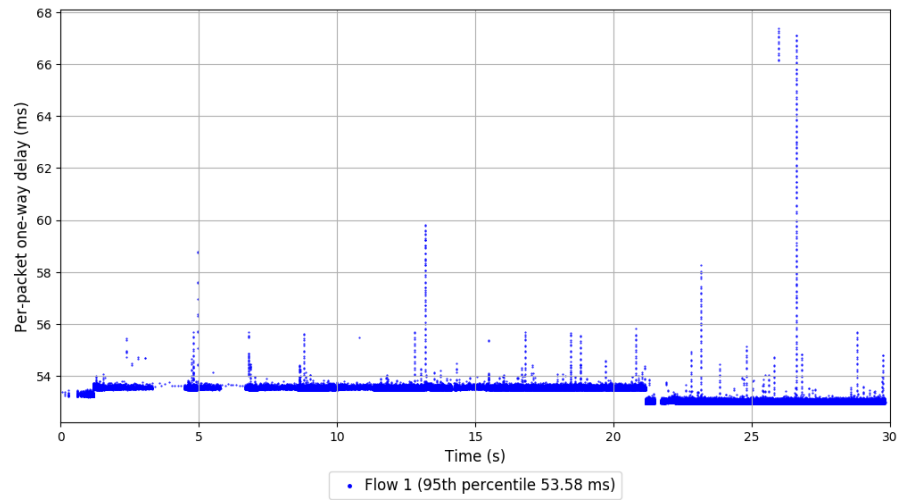
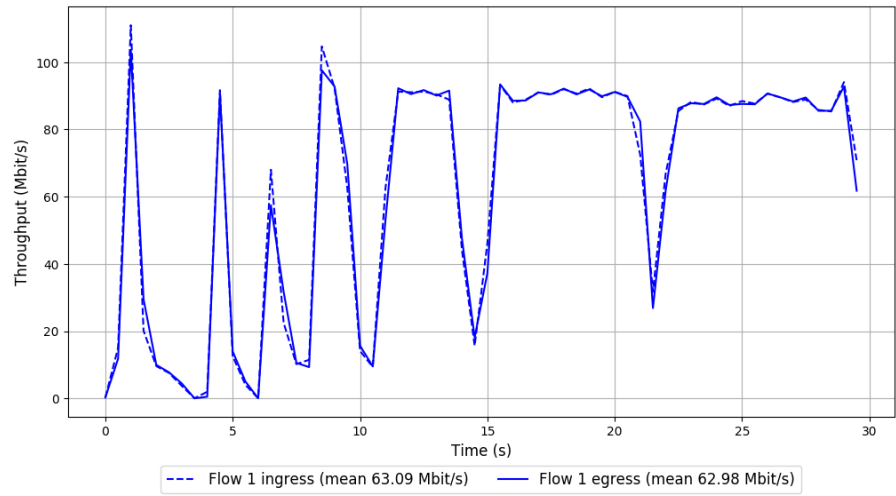
-- Flow 1:

Average throughput: 62.98 Mbit/s

95th percentile per-packet one-way delay: 53.579 ms

Loss rate: 0.51%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-16 06:51:57

End at: 2018-02-16 06:52:27

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.48%

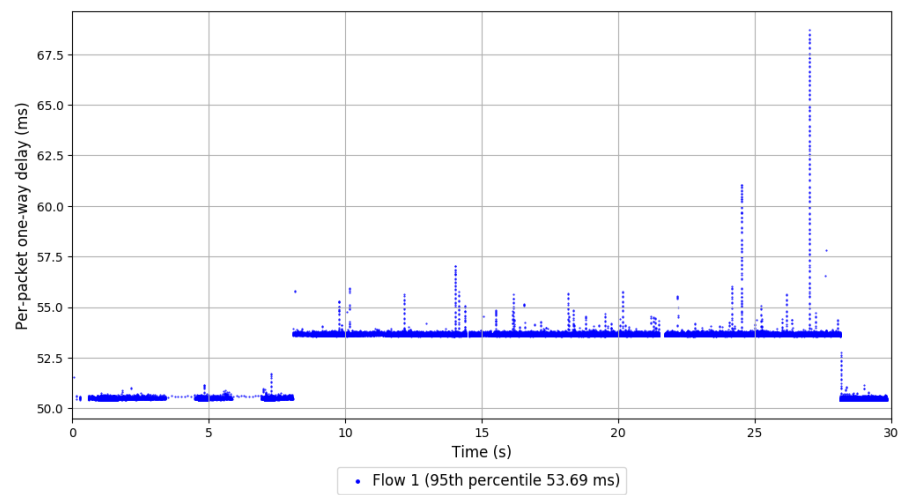
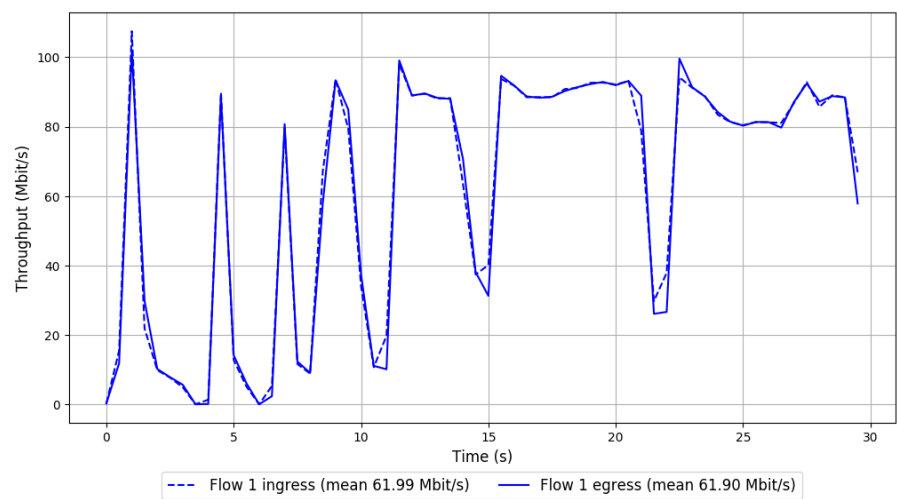
-- Flow 1:

Average throughput: 61.90 Mbit/s

95th percentile per-packet one-way delay: 53.686 ms

Loss rate: 0.48%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-16 07:06:26

End at: 2018-02-16 07:06:56

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.53%

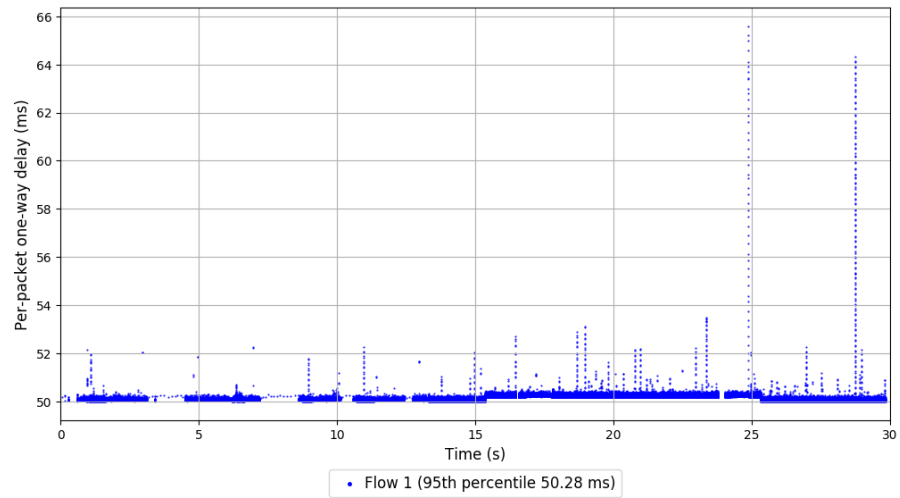
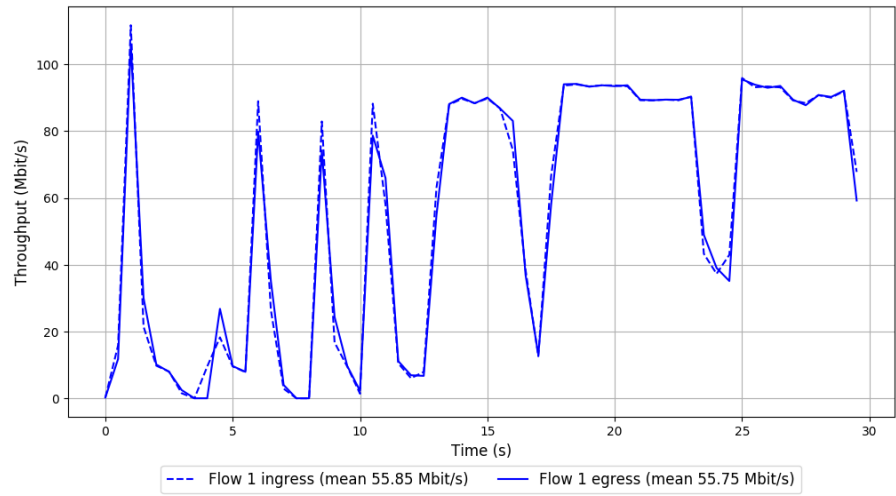
-- Flow 1:

Average throughput: 55.75 Mbit/s

95th percentile per-packet one-way delay: 50.281 ms

Loss rate: 0.53%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-16 07:21:19

End at: 2018-02-16 07:21:49

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 53.259 ms

Loss rate: 0.48%

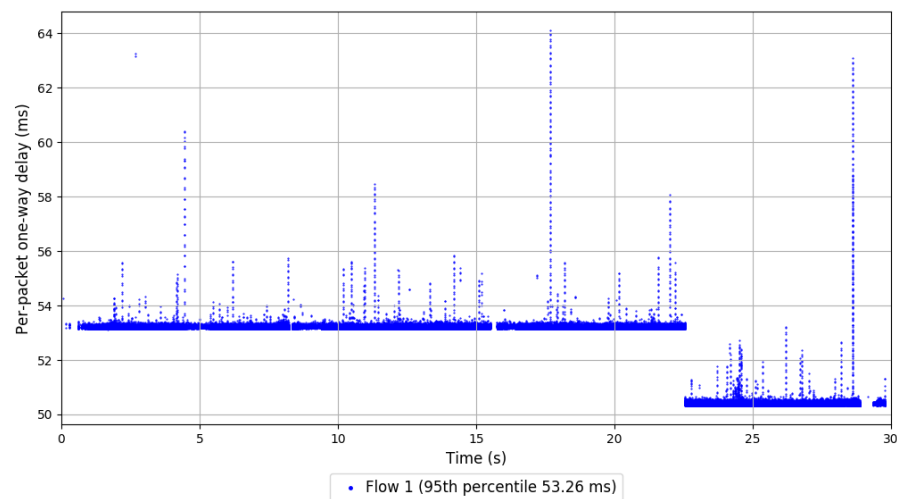
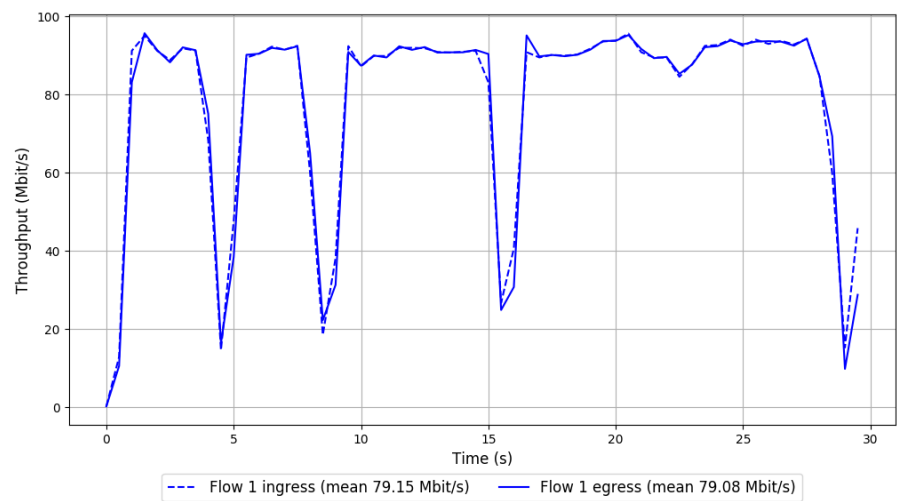
-- Flow 1:

Average throughput: 79.08 Mbit/s

95th percentile per-packet one-way delay: 53.259 ms

Loss rate: 0.48%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-16 07:36:14

End at: 2018-02-16 07:36:44

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.49 Mbit/s

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

Loss rate: 0.49%

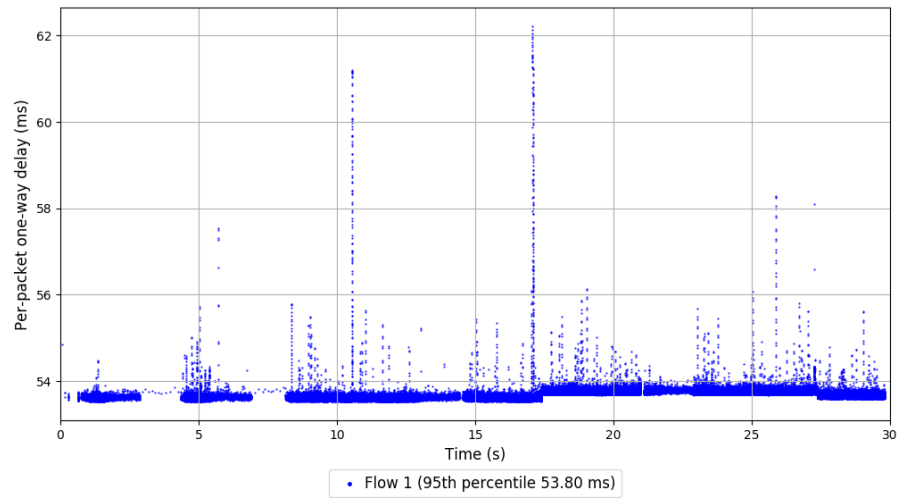
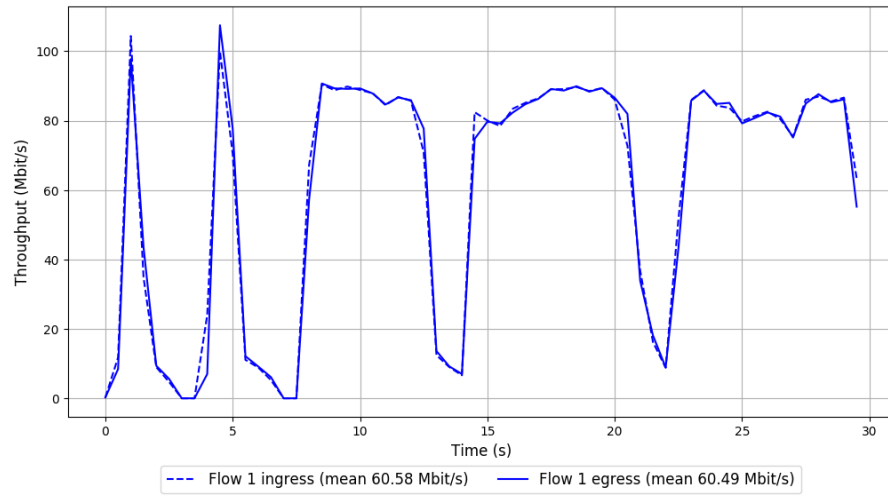
-- Flow 1:

Average throughput: 60.49 Mbit/s

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

Loss rate: 0.49%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-16 07:50:41

End at: 2018-02-16 07:51:11

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 50.201 ms

Loss rate: 0.54%

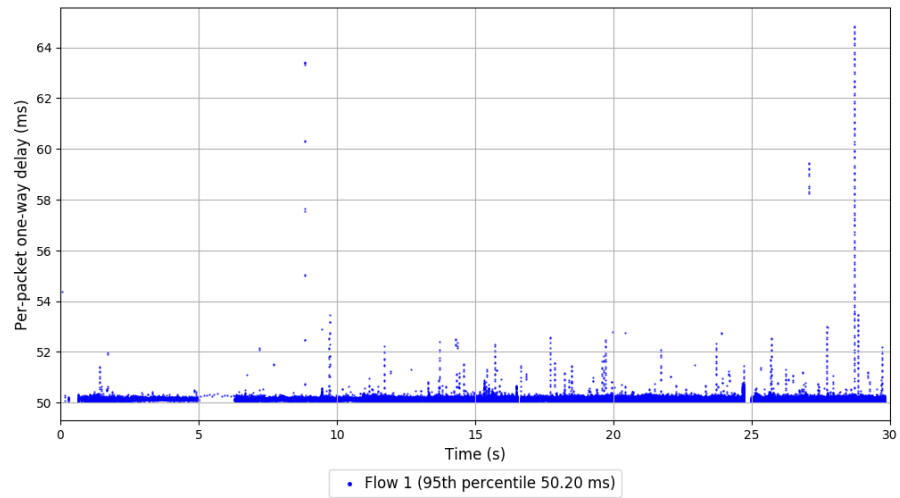
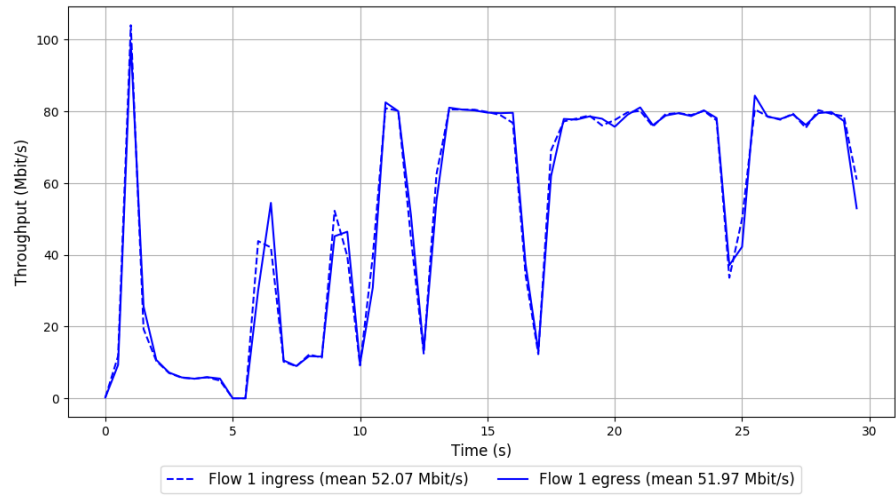
-- Flow 1:

Average throughput: 51.97 Mbit/s

95th percentile per-packet one-way delay: 50.201 ms

Loss rate: 0.54%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-16 08:05:00

End at: 2018-02-16 08:05:30

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.50%

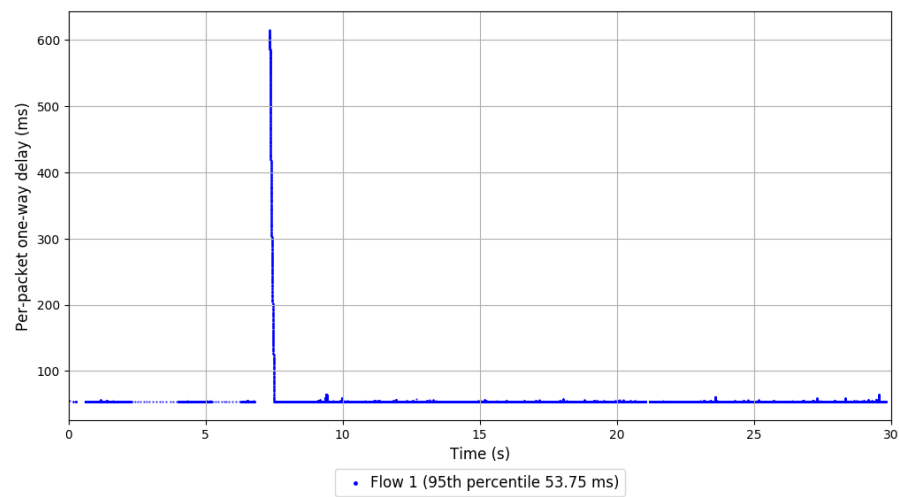
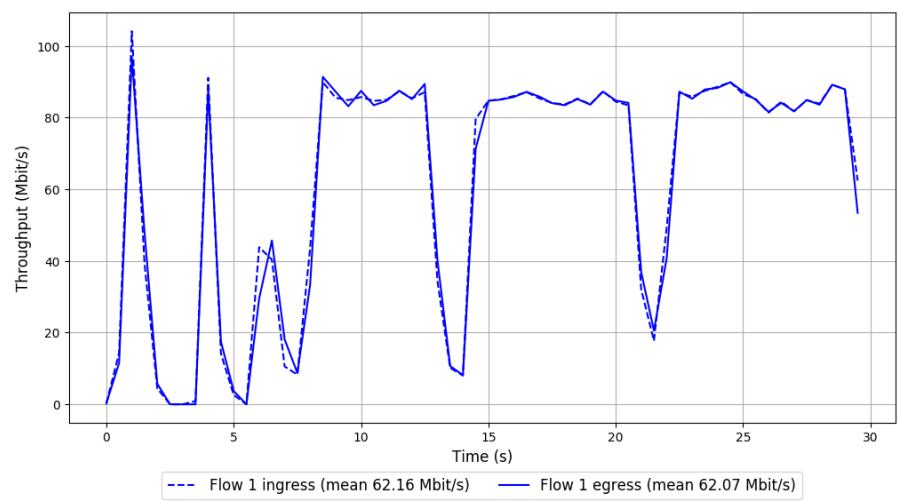
-- Flow 1:

Average throughput: 62.07 Mbit/s

95th percentile per-packet one-way delay: 53.746 ms

Loss rate: 0.50%

Run 9: Report of QUIC Cubic — Data Link

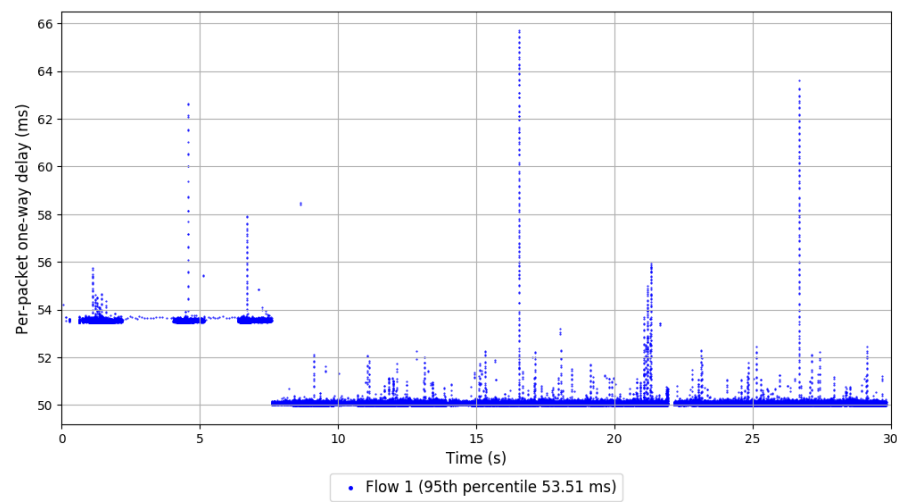
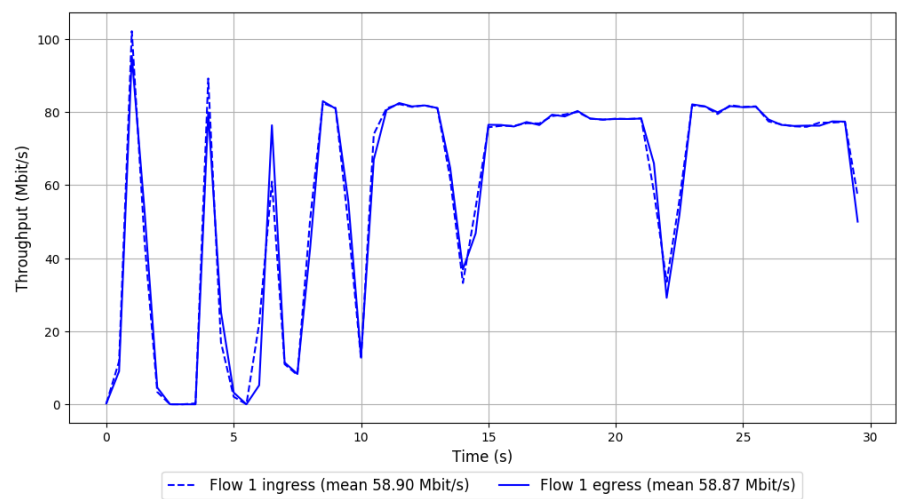


```
Run 10: Statistics of QUIC Cubic

Start at: 2018-02-16 08:19:34
End at: 2018-02-16 08:20:04

# Below is generated by plot.py at 2018-02-16 11:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 58.87 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.42%
```

Run 10: Report of QUIC Cubic — Data Link

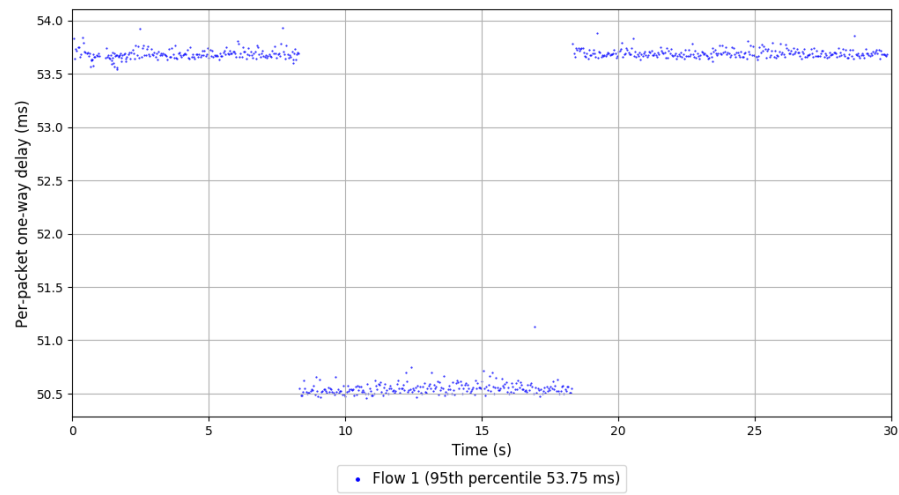
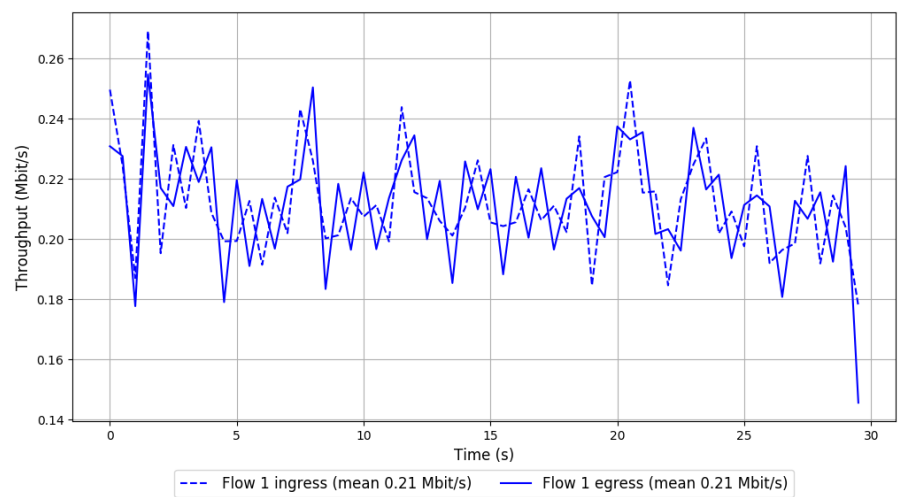


```
Run 1: Statistics of SCReAM

Start at: 2018-02-16 06:08:27
End at: 2018-02-16 06:08:57

# Below is generated by plot.py at 2018-02-16 11:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.747 ms
Loss rate: 0.38%
```

Run 1: Report of SReAM — Data Link

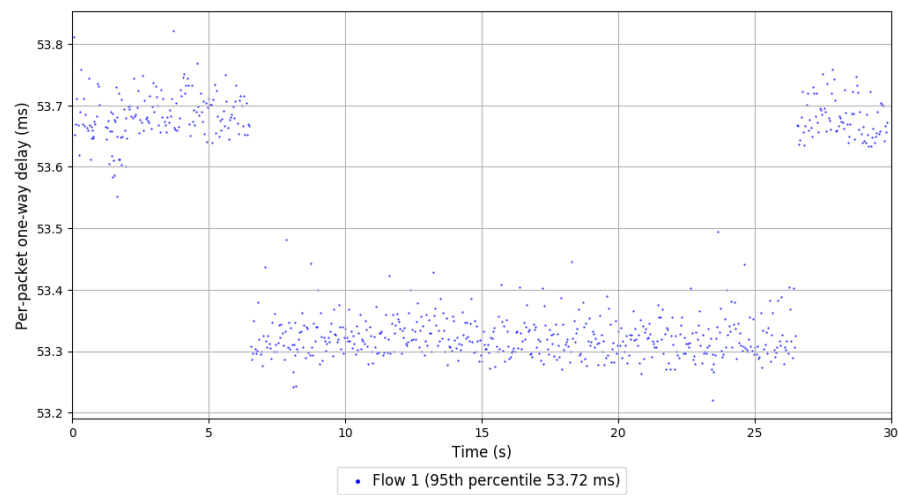
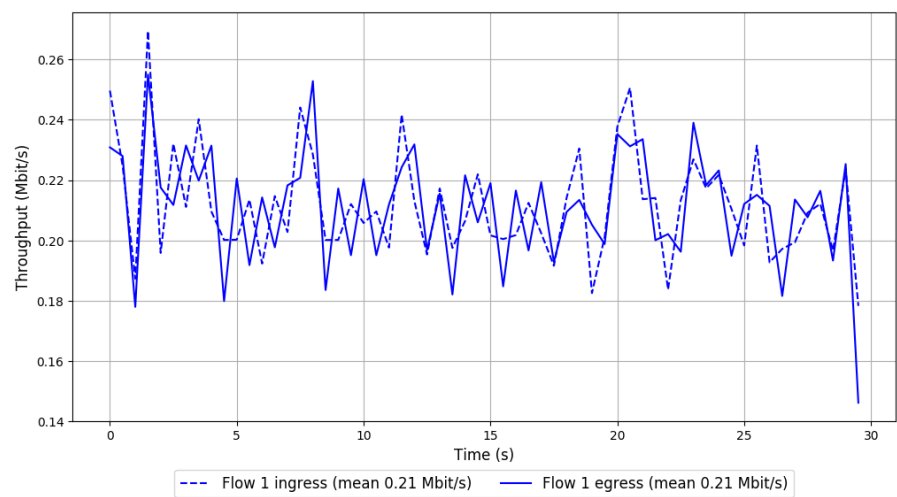


```
Run 2: Statistics of SCReAM

Start at: 2018-02-16 06:23:08
End at: 2018-02-16 06:23:38

# Below is generated by plot.py at 2018-02-16 11:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 0.38%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-16 06:37:50

End at: 2018-02-16 06:38:20

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.25%

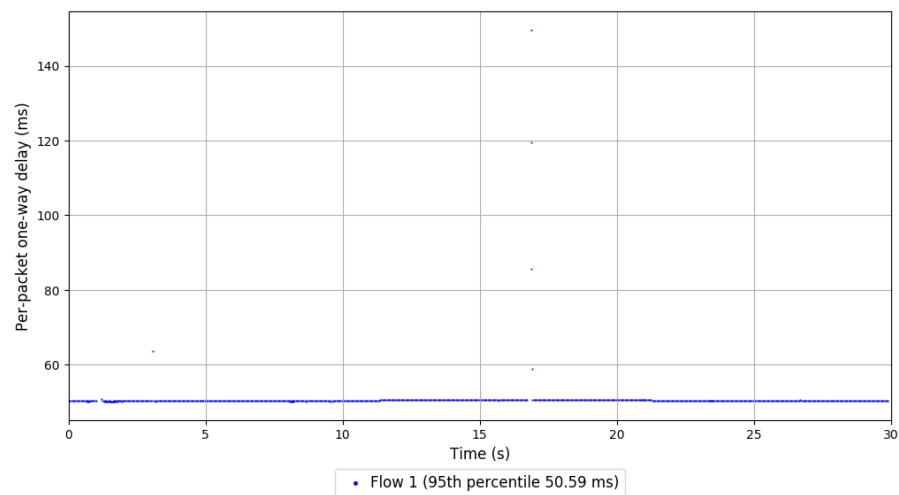
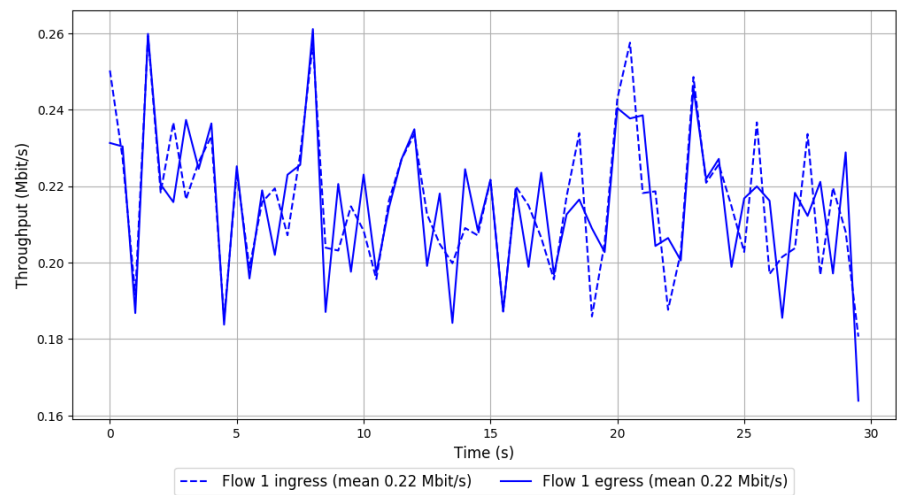
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.594 ms

Loss rate: 0.25%

Run 3: Report of SReAM — Data Link

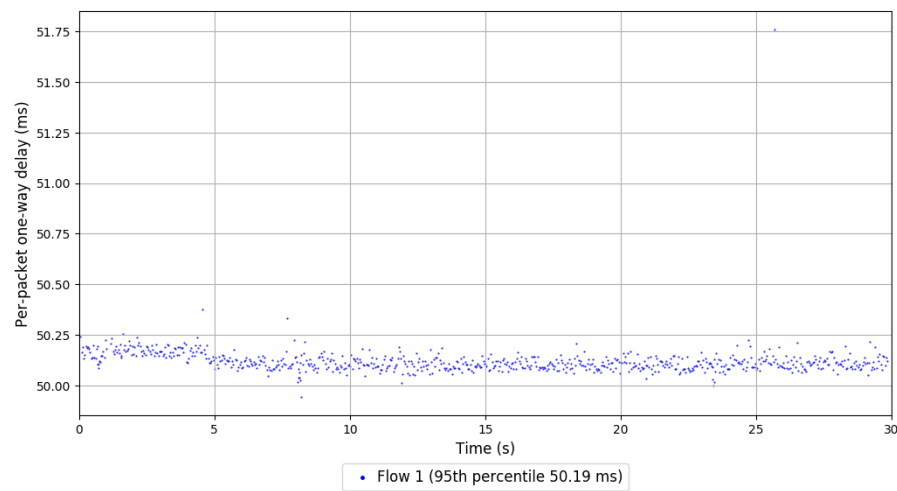
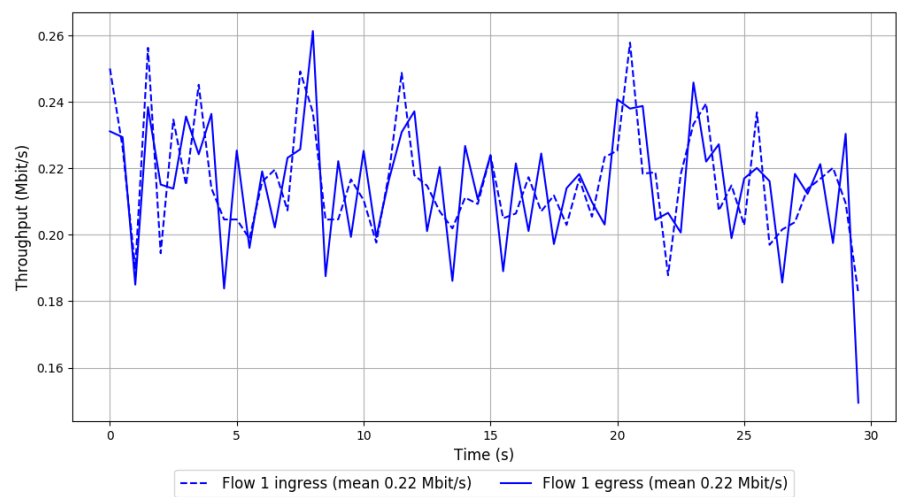


```
Run 4: Statistics of SCReAM

Start at: 2018-02-16 06:52:37
End at: 2018-02-16 06:53:07

# Below is generated by plot.py at 2018-02-16 11:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.194 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.194 ms
Loss rate: 0.38%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-16 07:07:06

End at: 2018-02-16 07:07:36

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.860 ms

Loss rate: 0.37%

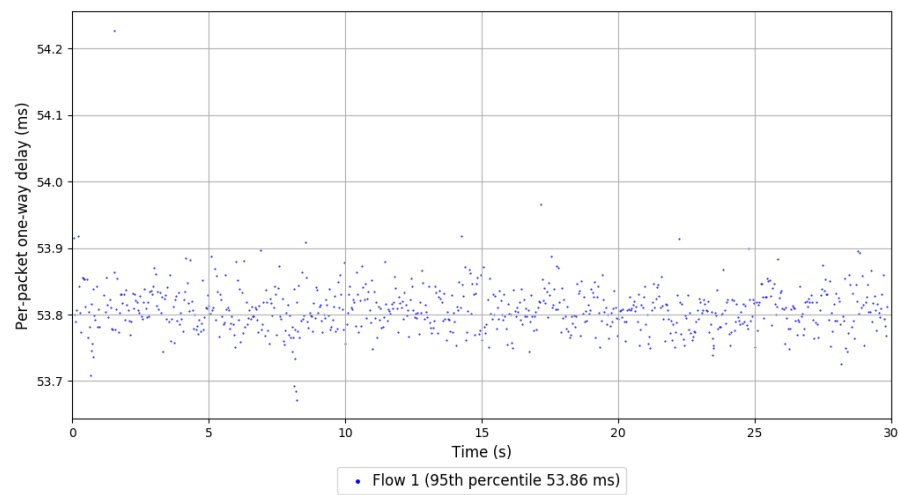
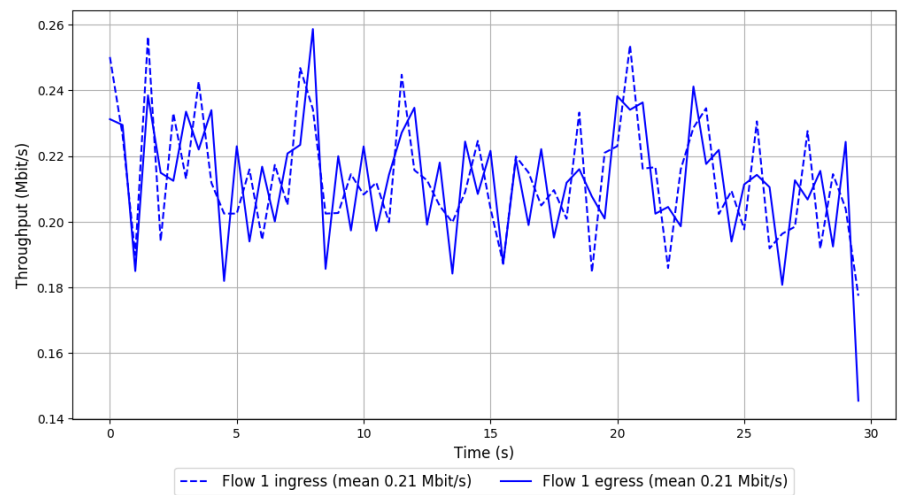
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.860 ms

Loss rate: 0.37%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-16 07:22:00

End at: 2018-02-16 07:22:30

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.38%

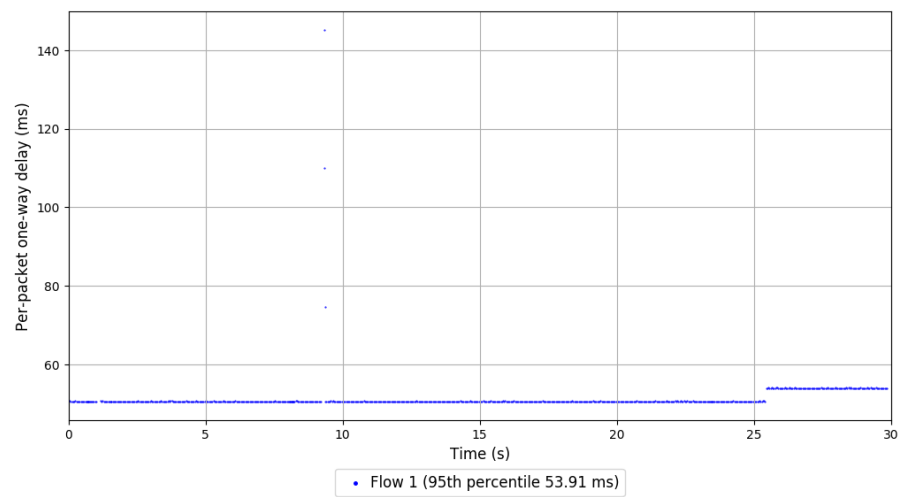
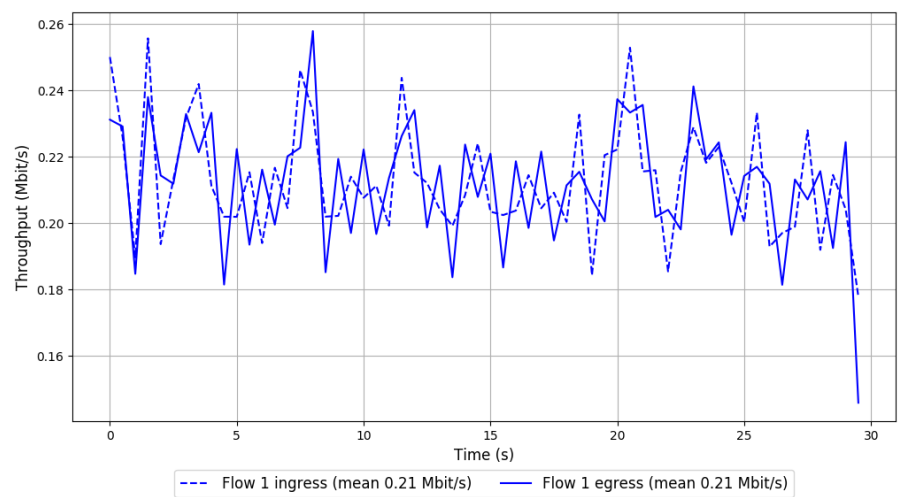
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.912 ms

Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-16 07:36:54

End at: 2018-02-16 07:37:24

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.38%

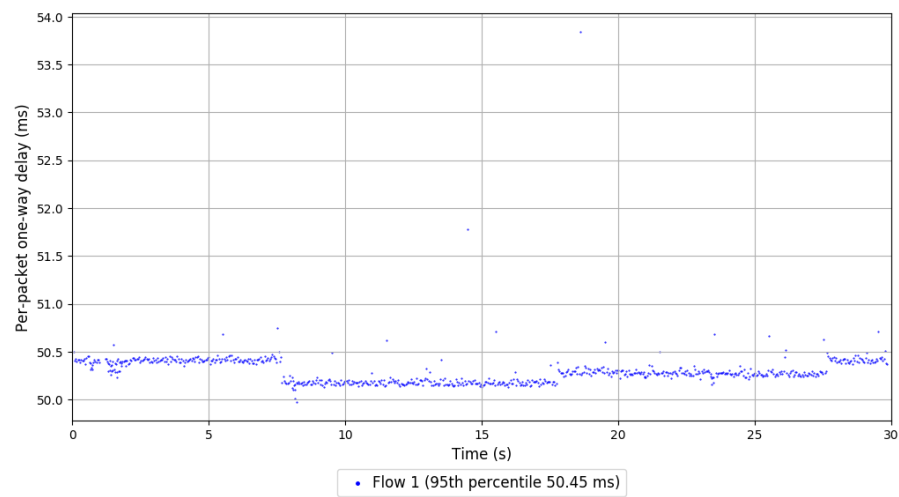
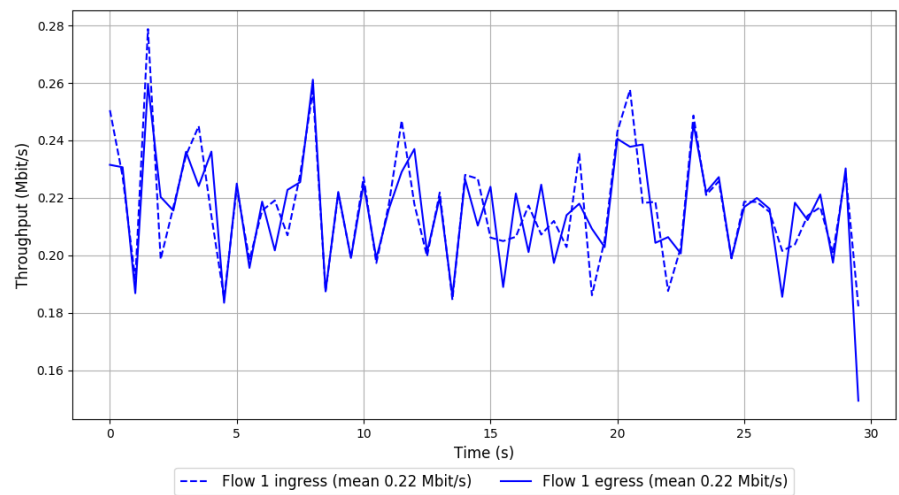
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.445 ms

Loss rate: 0.38%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-16 07:51:21

End at: 2018-02-16 07:51:51

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.256 ms

Loss rate: 0.38%

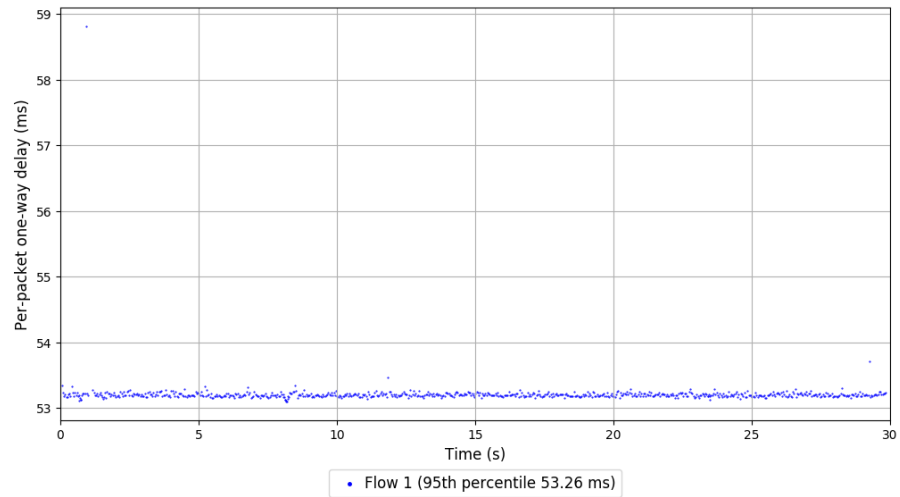
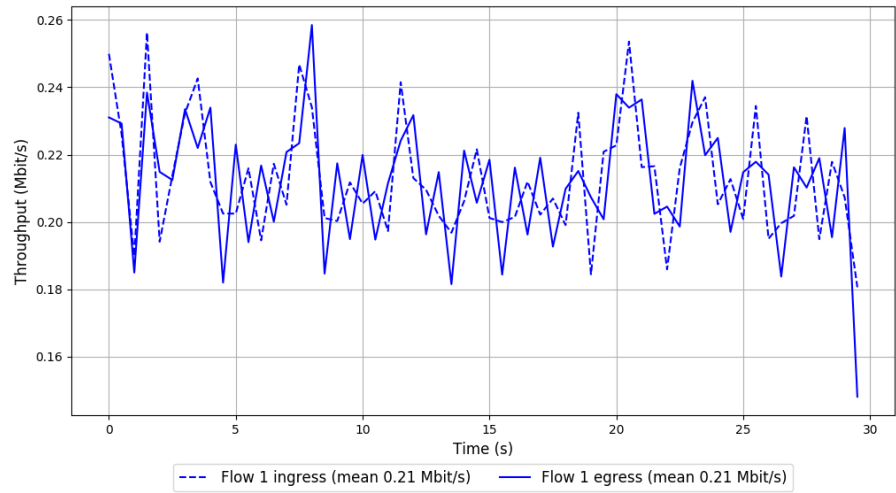
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.256 ms

Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-16 08:05:40

End at: 2018-02-16 08:06:10

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.818 ms

Loss rate: 0.38%

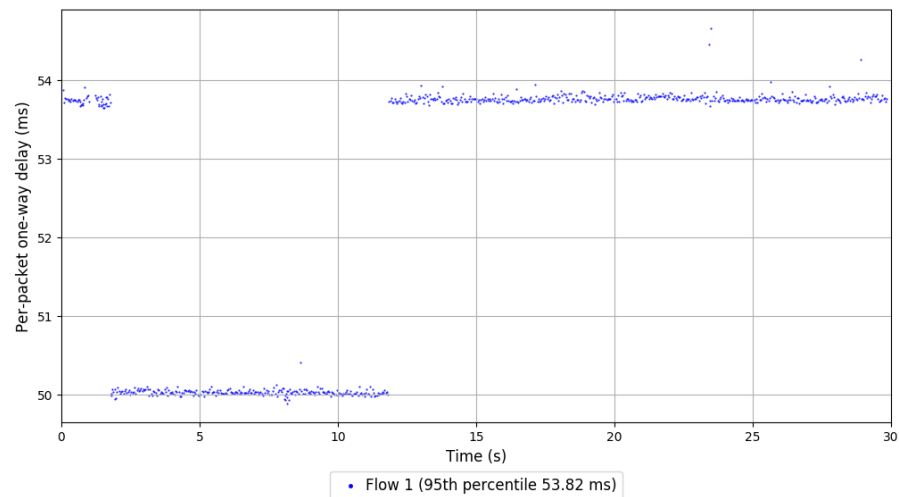
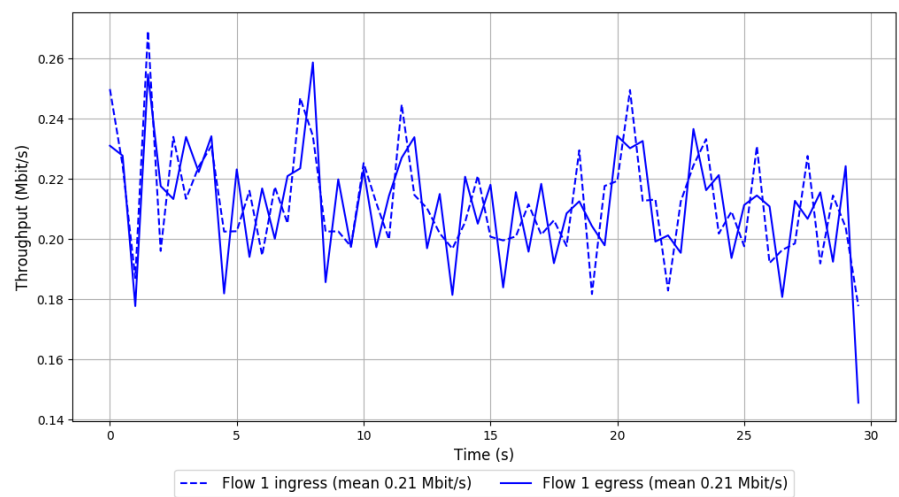
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.818 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-16 08:20:14

End at: 2018-02-16 08:20:44

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

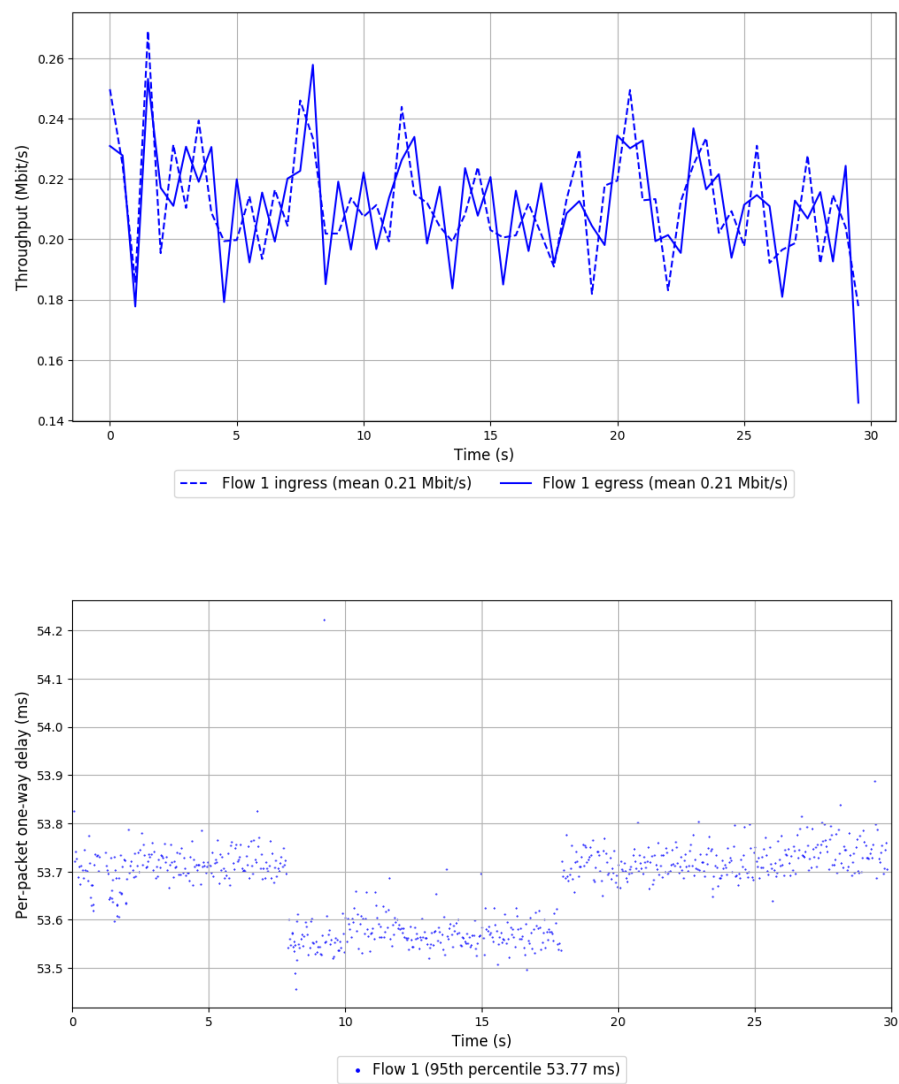
-- Flow 1:

Average throughput: 0.21 Mbit/s

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

Loss rate: 0.38%

Run 10: Report of SCReAM — Data Link

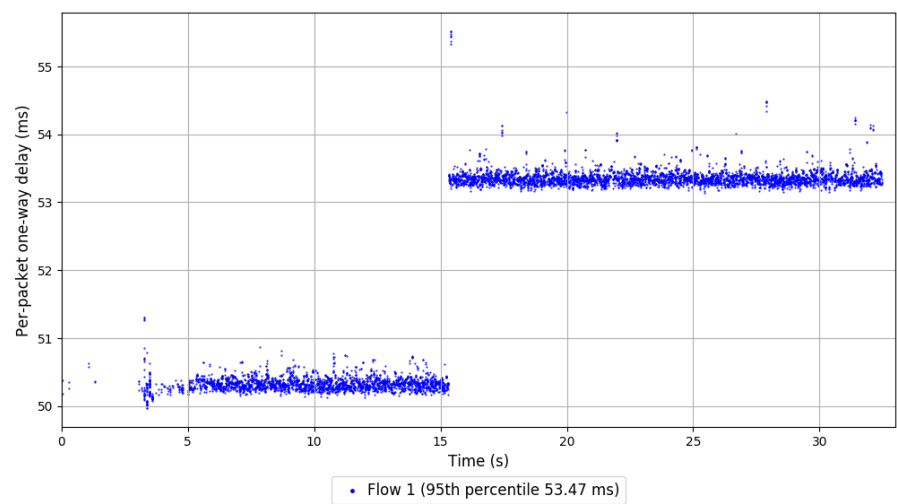
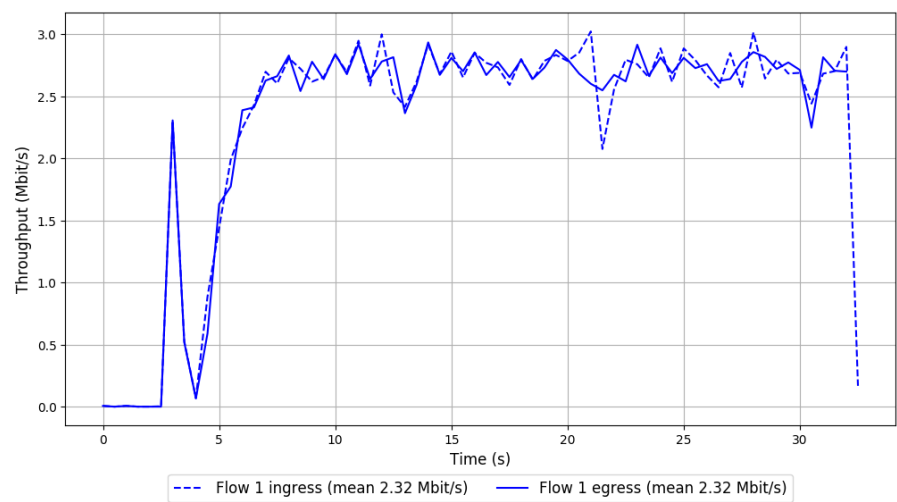


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-16 06:12:12
End at: 2018-02-16 06:12:42

# Below is generated by plot.py at 2018-02-16 11:26:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 53.469 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 53.469 ms
Loss rate: 0.39%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-16 06:27:01

End at: 2018-02-16 06:27:31

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.42%

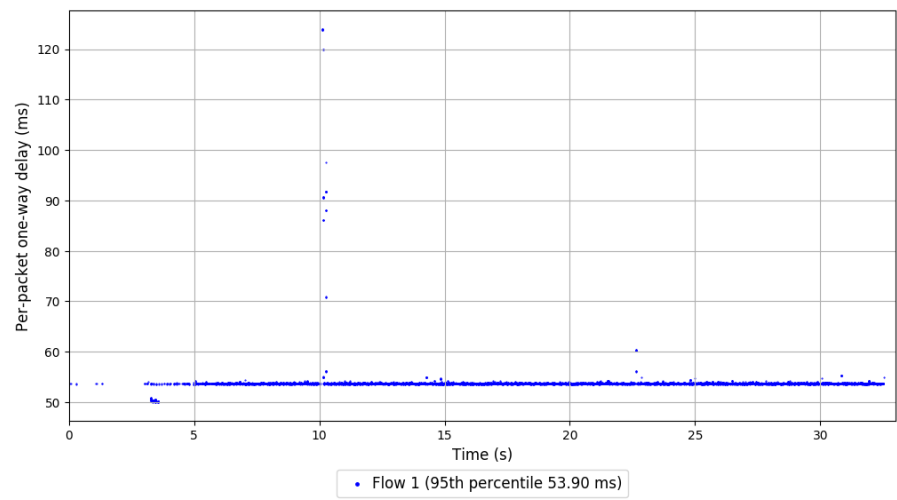
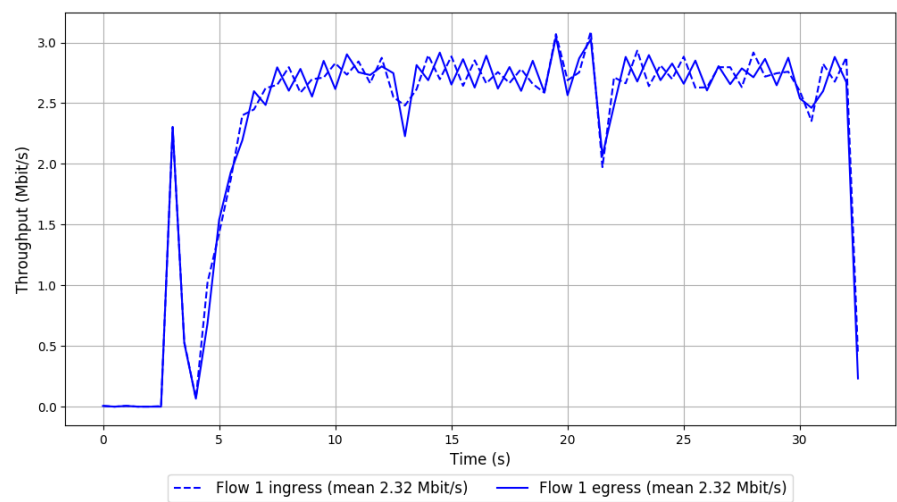
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.896 ms

Loss rate: 0.42%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-16 06:41:28

End at: 2018-02-16 06:41:58

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.44%

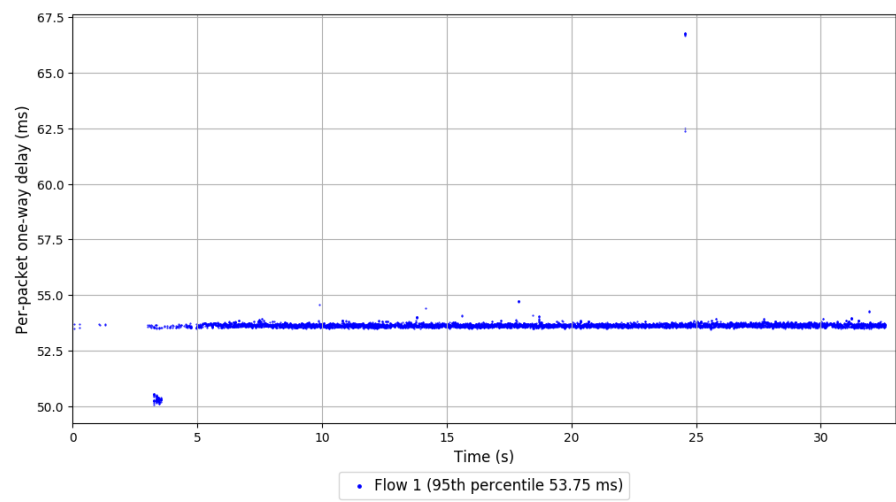
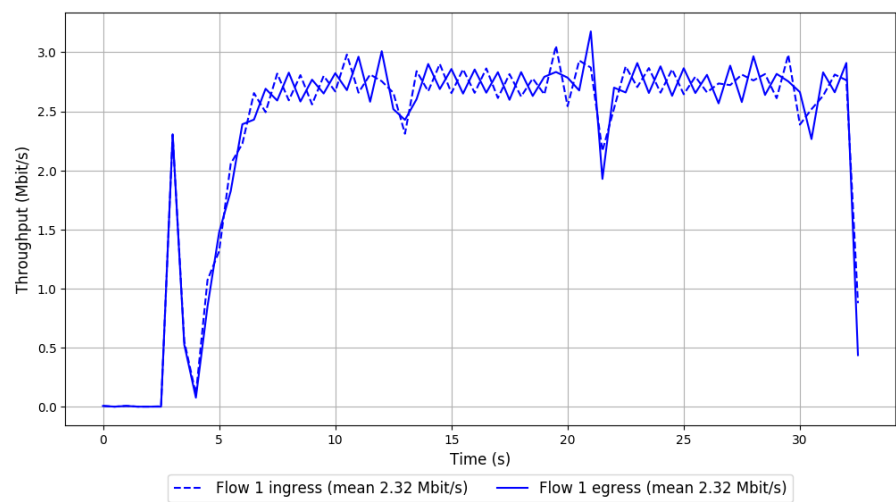
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.44%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-16 06:56:16

End at: 2018-02-16 06:56:46

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.930 ms

Loss rate: 0.30%

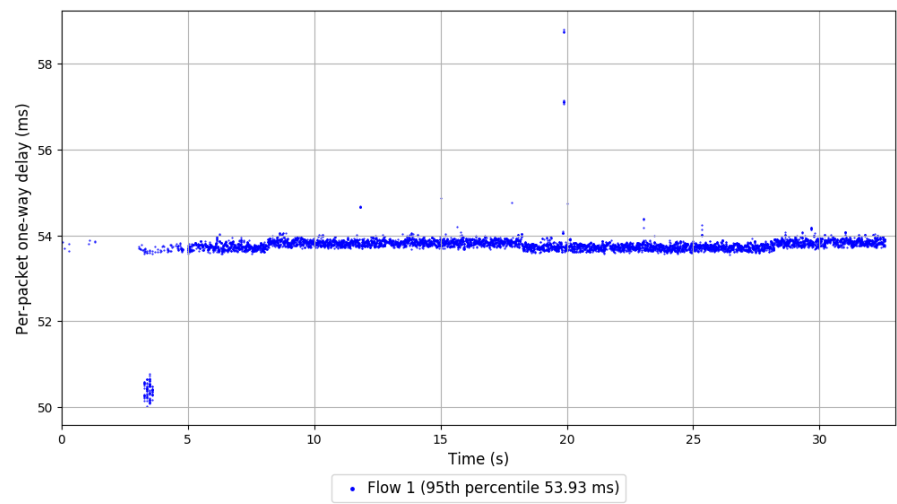
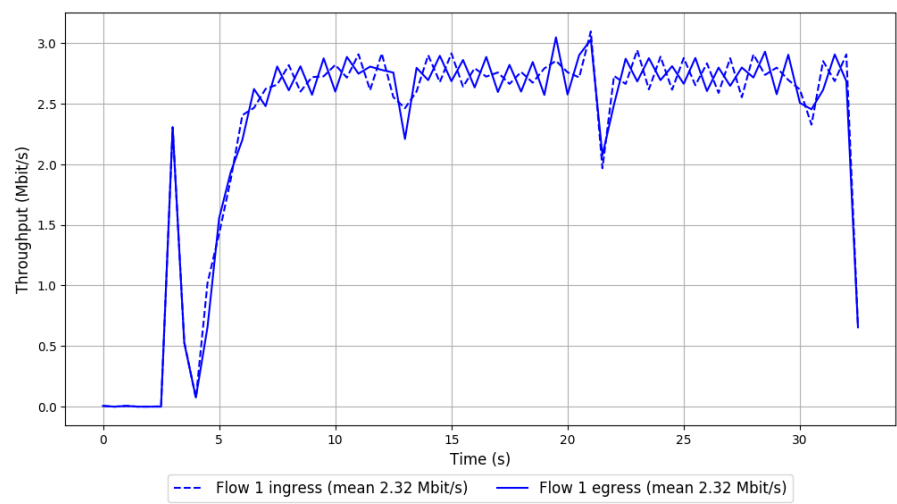
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.930 ms

Loss rate: 0.30%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-16 07:10:56

End at: 2018-02-16 07:11:26

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.44%

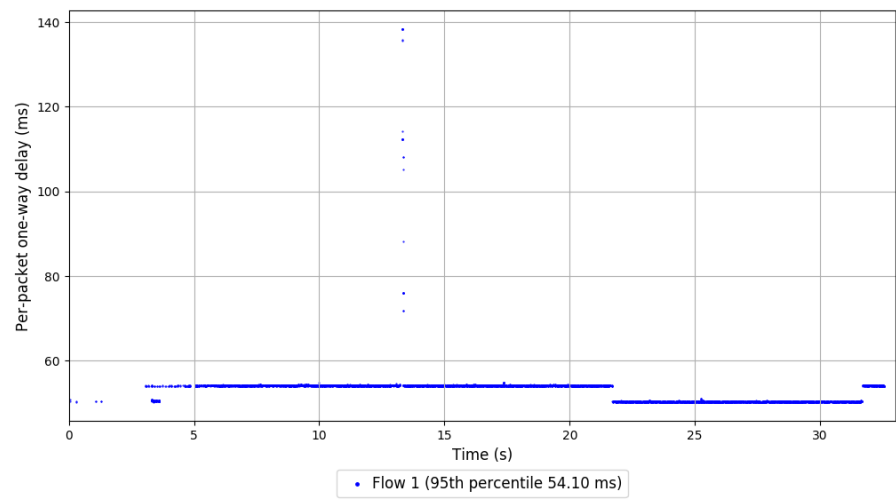
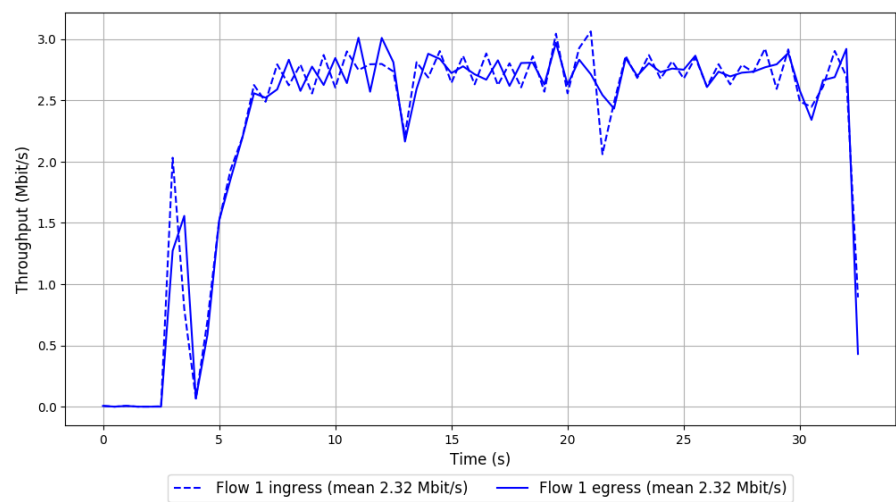
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 54.097 ms

Loss rate: 0.44%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-16 07:25:50

End at: 2018-02-16 07:26:20

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.886 ms

Loss rate: 0.33%

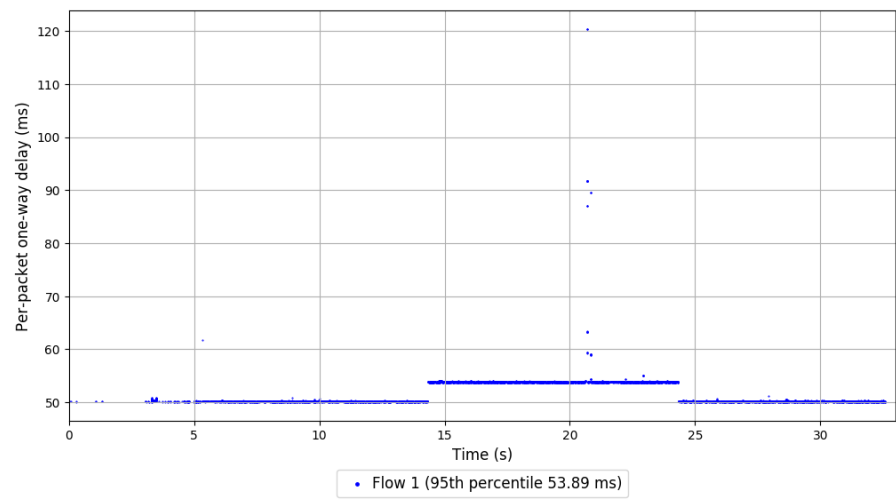
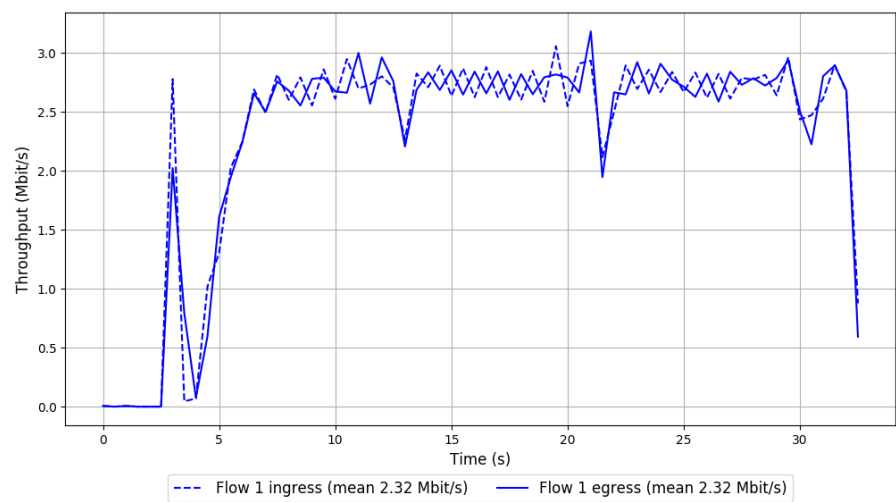
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.886 ms

Loss rate: 0.33%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-16 07:40:25

End at: 2018-02-16 07:40:55

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.29%

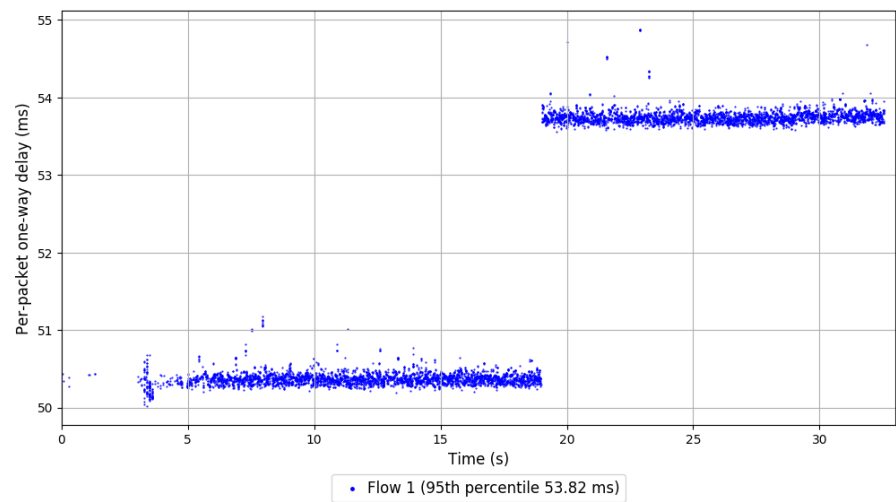
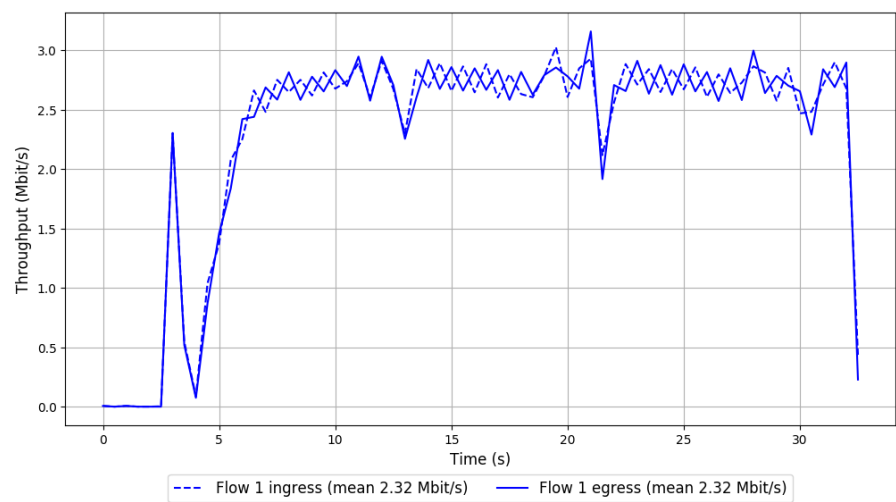
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.823 ms

Loss rate: 0.29%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-16 07:54:55

End at: 2018-02-16 07:55:25

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.259 ms

Loss rate: 0.39%

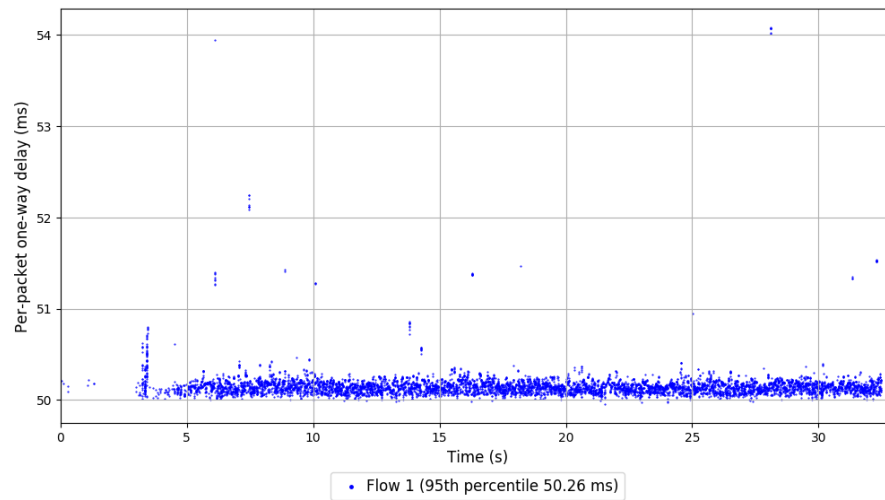
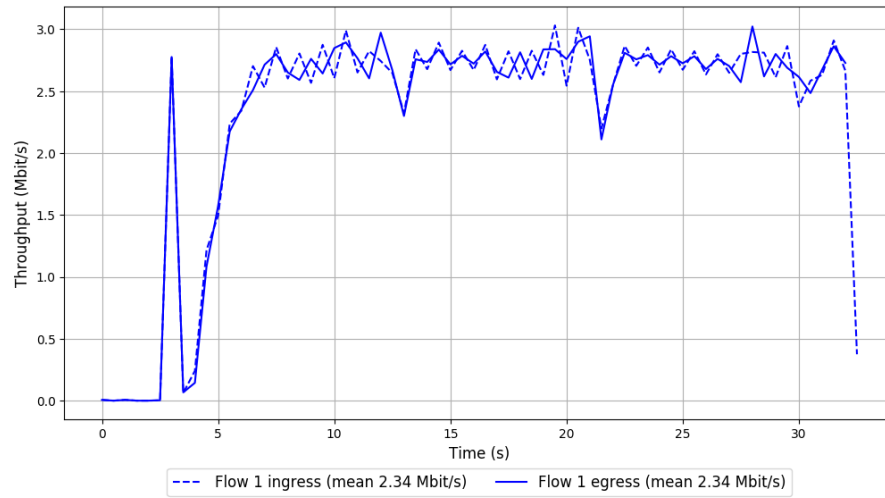
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 50.259 ms

Loss rate: 0.39%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-16 08:09:11

End at: 2018-02-16 08:09:41

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.202 ms

Loss rate: 0.42%

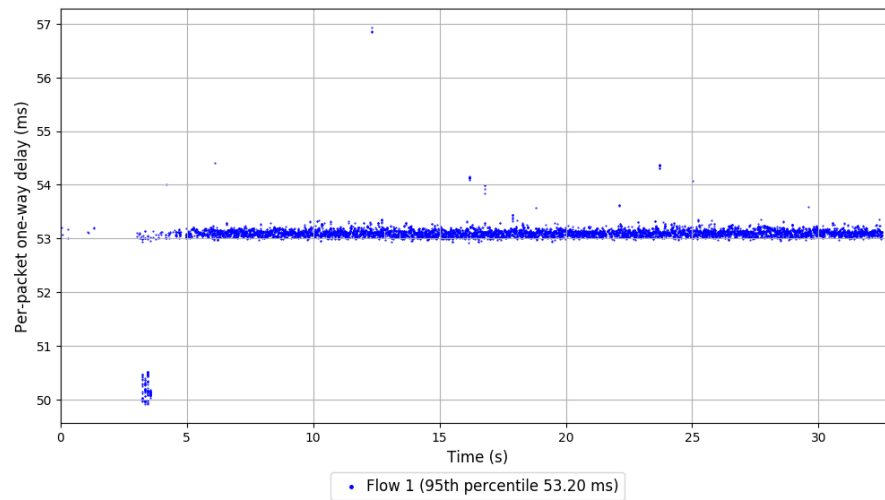
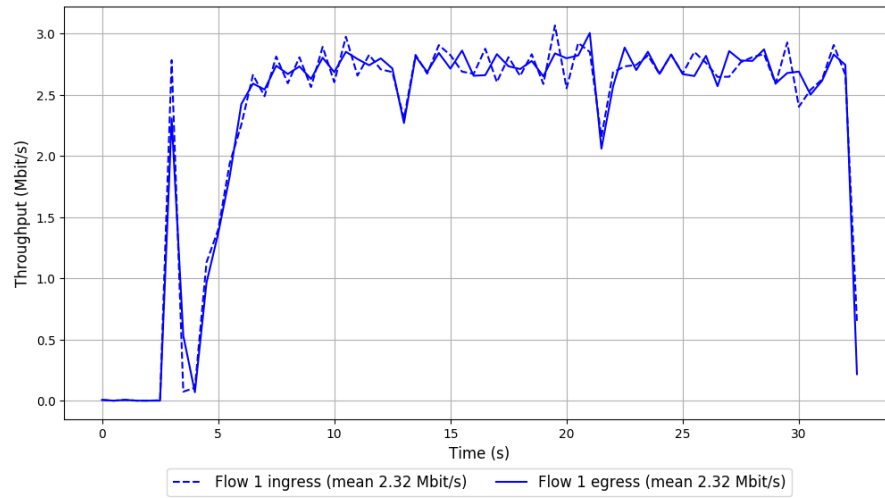
-- Flow 1:

Average throughput: 2.32 Mbit/s

95th percentile per-packet one-way delay: 53.202 ms

Loss rate: 0.42%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-16 08:24:03

End at: 2018-02-16 08:24:33

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.43%

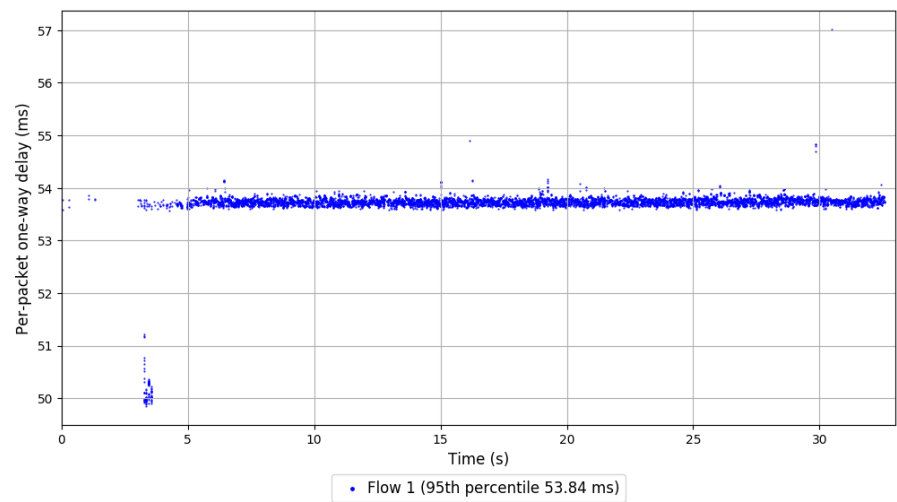
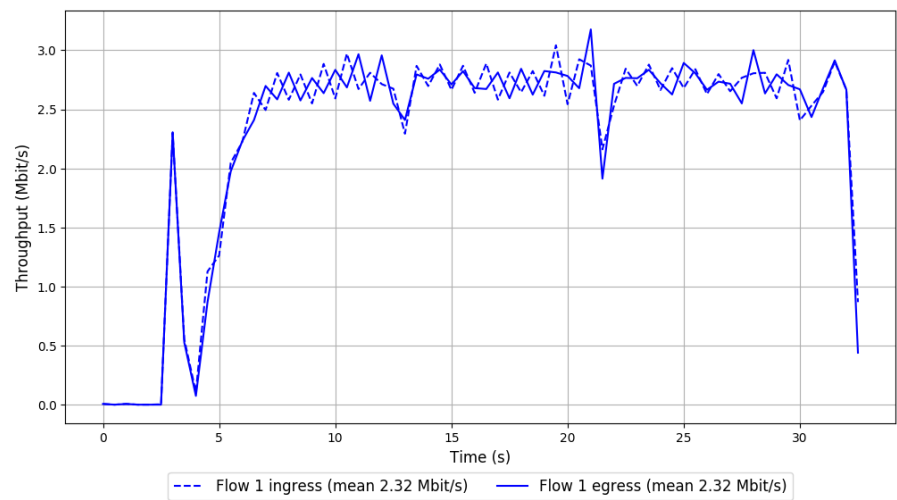
-- Flow 1:

Average throughput: 2.32 Mbit/s

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

Loss rate: 0.43%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-16 06:02:27

End at: 2018-02-16 06:02:57

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.648 ms

Loss rate: 0.36%

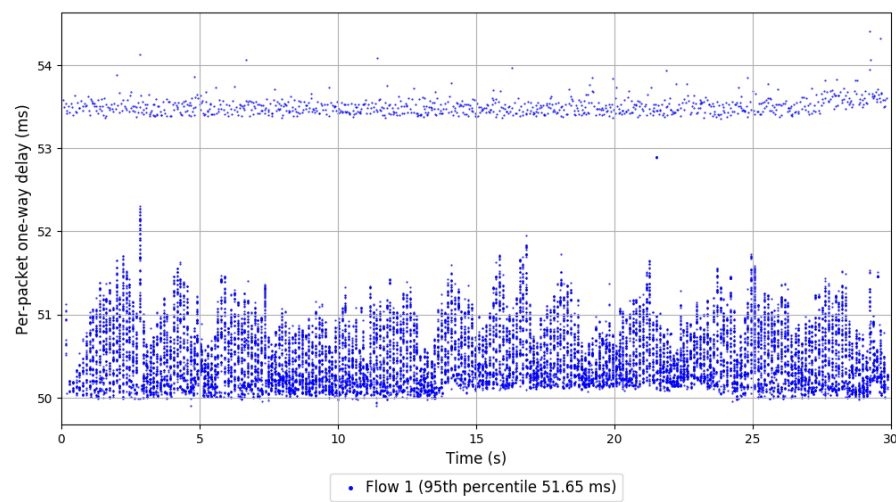
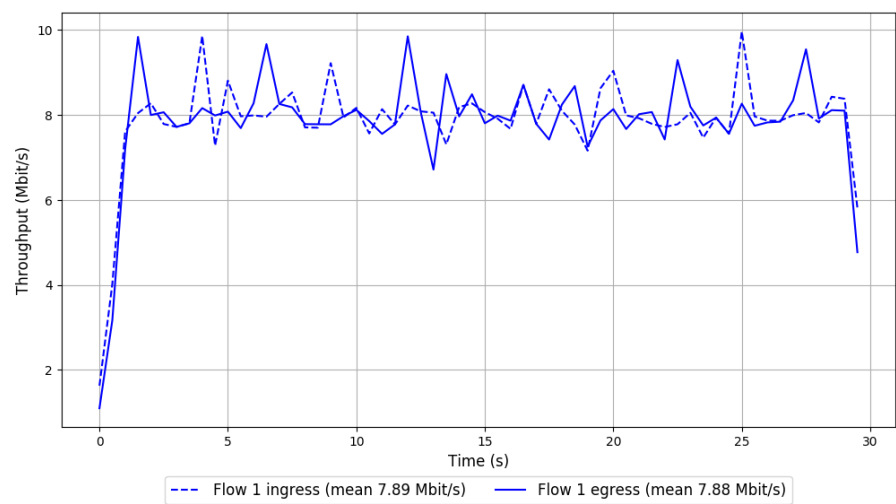
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.648 ms

Loss rate: 0.36%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-16 06:17:09

End at: 2018-02-16 06:17:39

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.35%

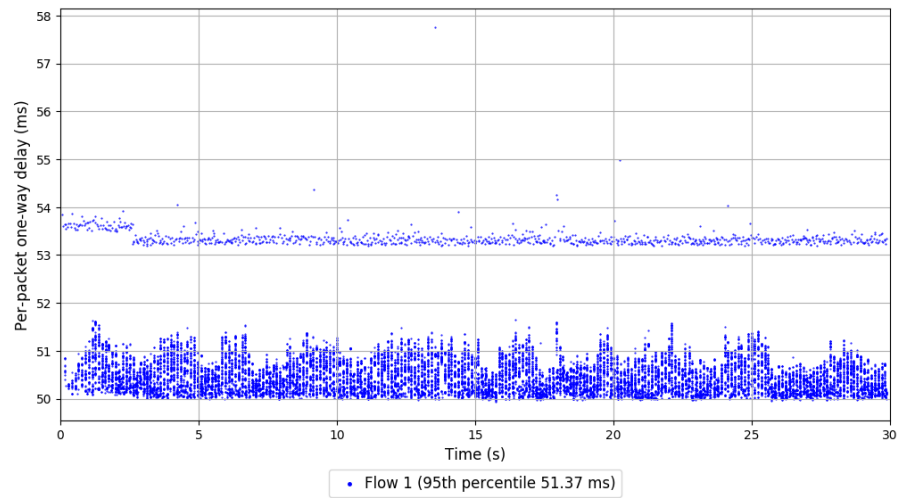
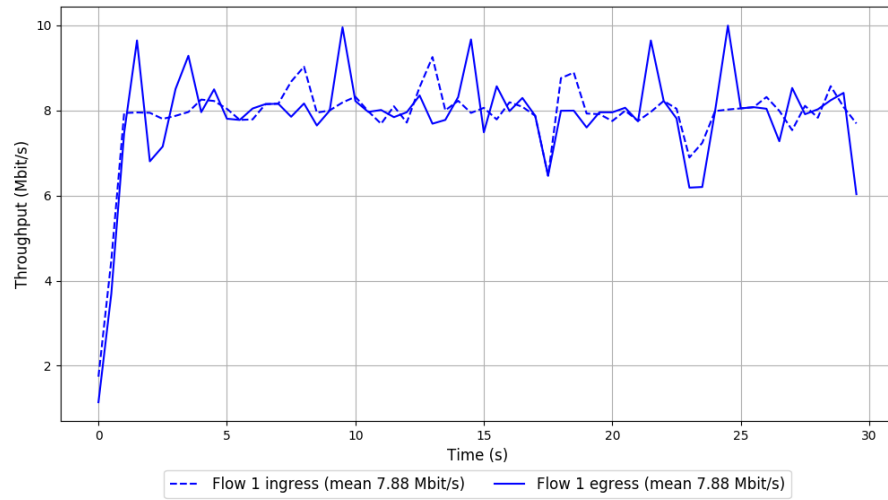
-- Flow 1:

Average throughput: 7.88 Mbit/s

95th percentile per-packet one-way delay: 51.368 ms

Loss rate: 0.35%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-16 06:31:53

End at: 2018-02-16 06:32:23

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.517 ms

Loss rate: 0.41%

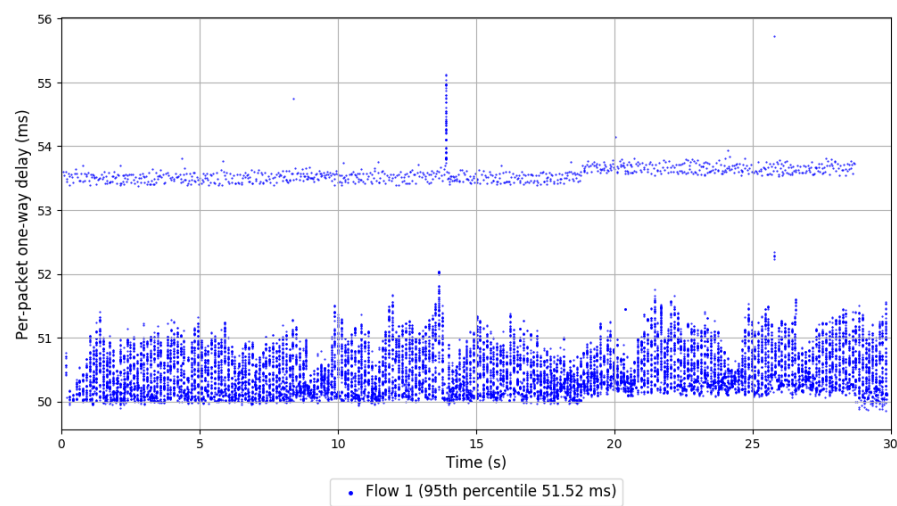
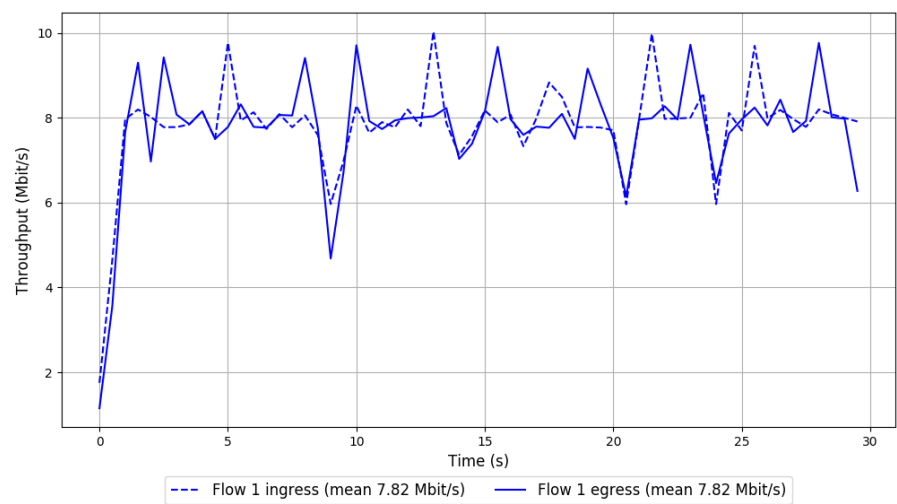
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.517 ms

Loss rate: 0.41%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-16 06:46:39

End at: 2018-02-16 06:47:09

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.269 ms

Loss rate: 0.35%

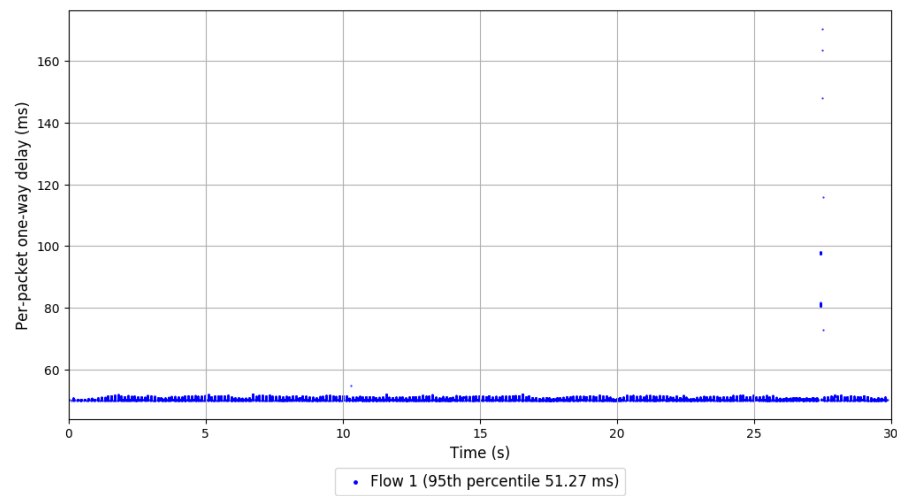
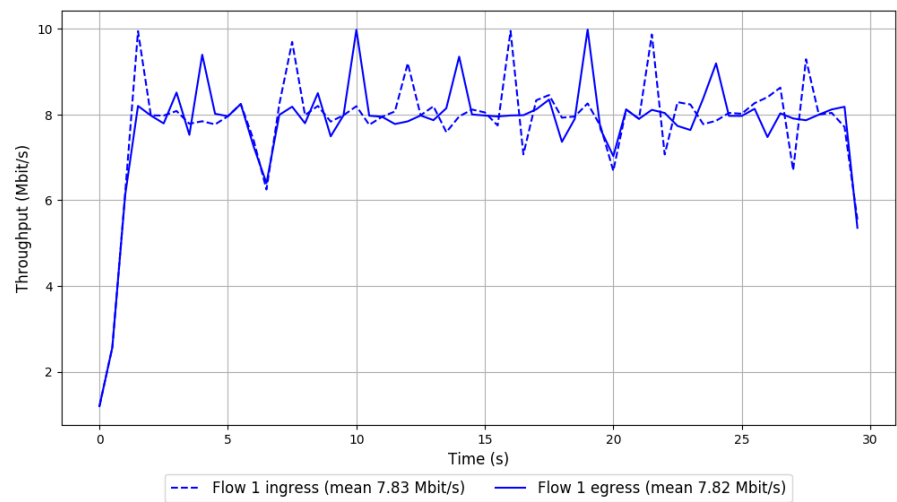
-- Flow 1:

Average throughput: 7.82 Mbit/s

95th percentile per-packet one-way delay: 51.269 ms

Loss rate: 0.35%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-16 07:01:10

End at: 2018-02-16 07:01:40

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.547 ms

Loss rate: 0.41%

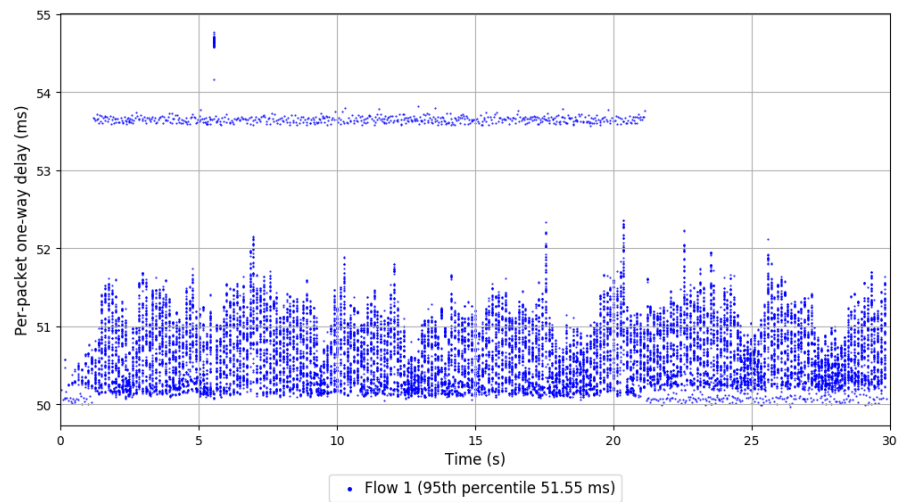
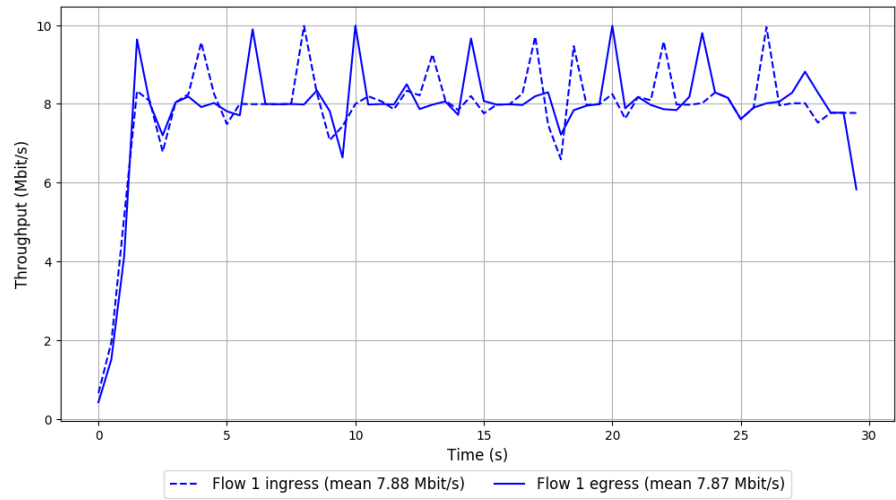
-- Flow 1:

Average throughput: 7.87 Mbit/s

95th percentile per-packet one-way delay: 51.547 ms

Loss rate: 0.41%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-16 07:15:52

End at: 2018-02-16 07:16:22

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.425 ms

Loss rate: 0.36%

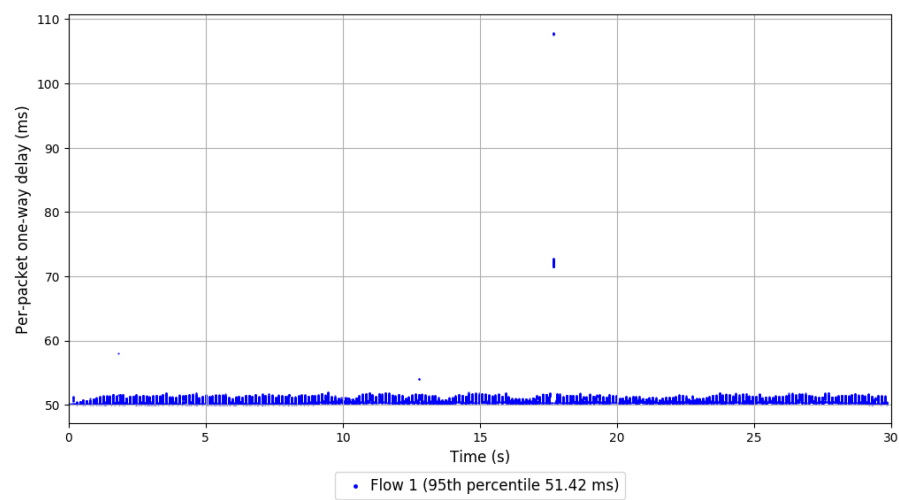
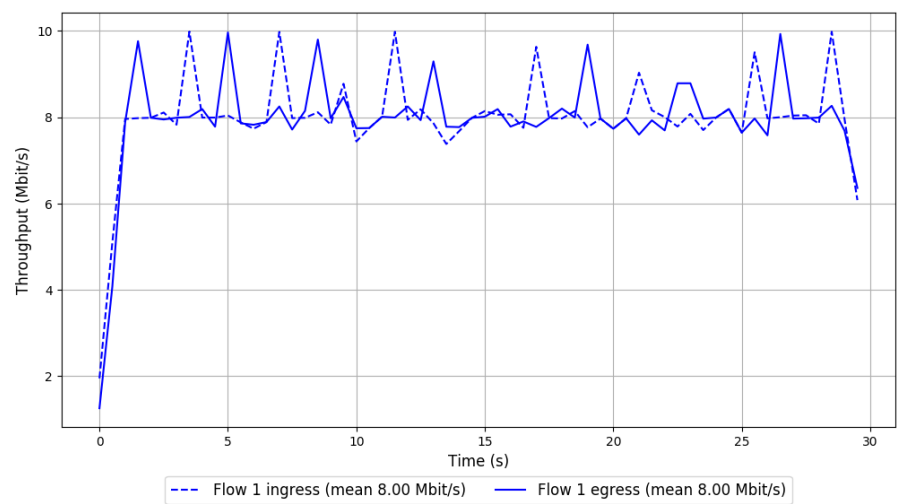
-- Flow 1:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 51.425 ms

Loss rate: 0.36%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-16 07:30:47

End at: 2018-02-16 07:31:18

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 0.42%

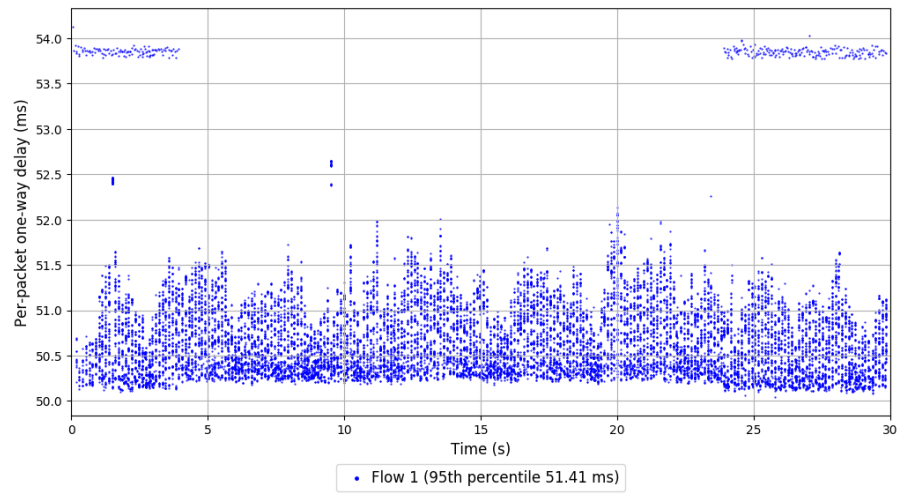
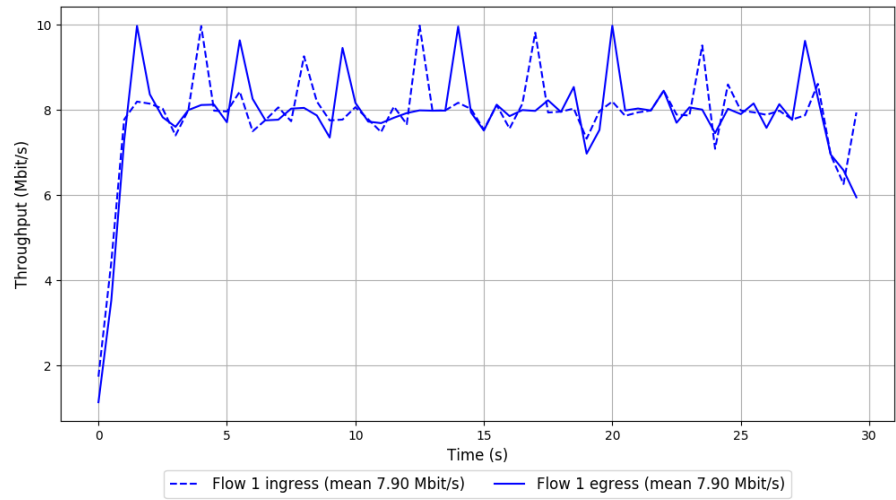
-- Flow 1:

Average throughput: 7.90 Mbit/s

95th percentile per-packet one-way delay: 51.413 ms

Loss rate: 0.42%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-16 07:45:22

End at: 2018-02-16 07:45:52

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 52.281 ms

Loss rate: 0.35%

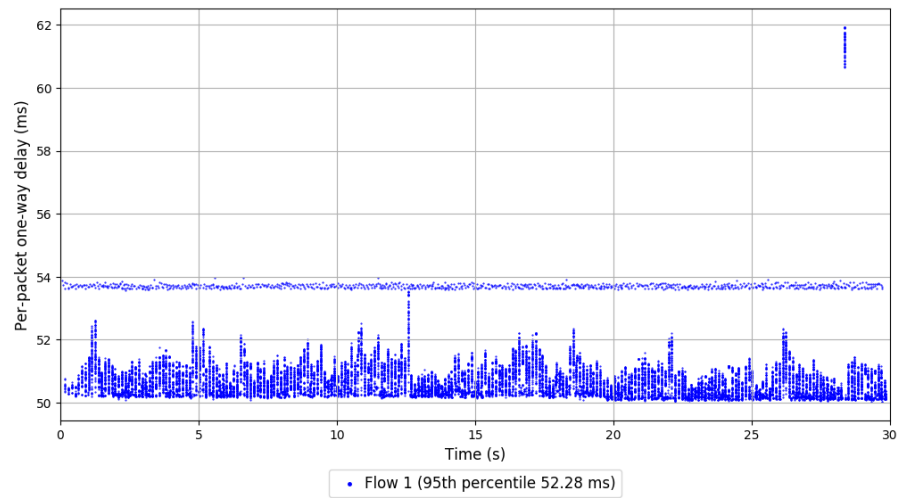
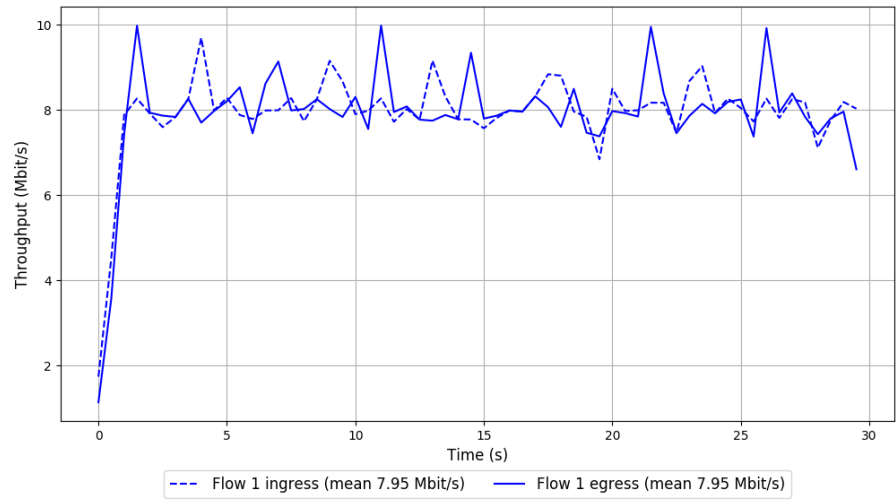
-- Flow 1:

Average throughput: 7.95 Mbit/s

95th percentile per-packet one-way delay: 52.281 ms

Loss rate: 0.35%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-16 07:59:47

End at: 2018-02-16 08:00:17

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.206 ms

Loss rate: 0.41%

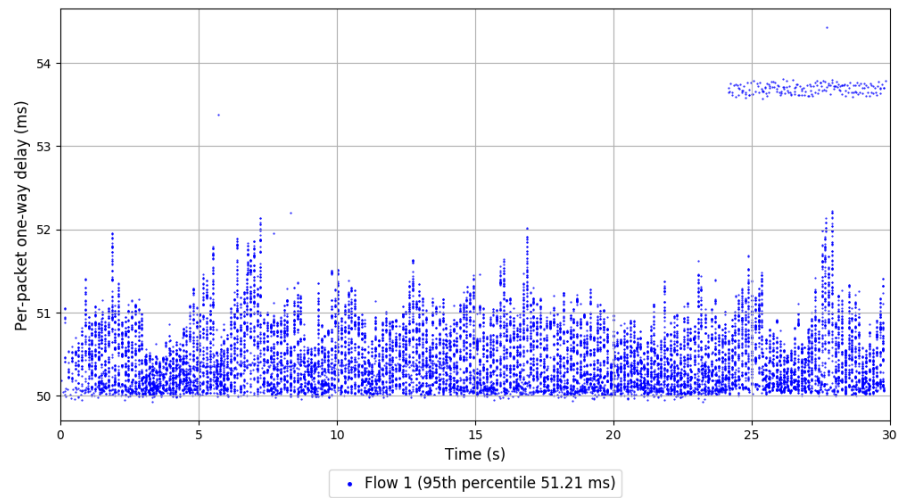
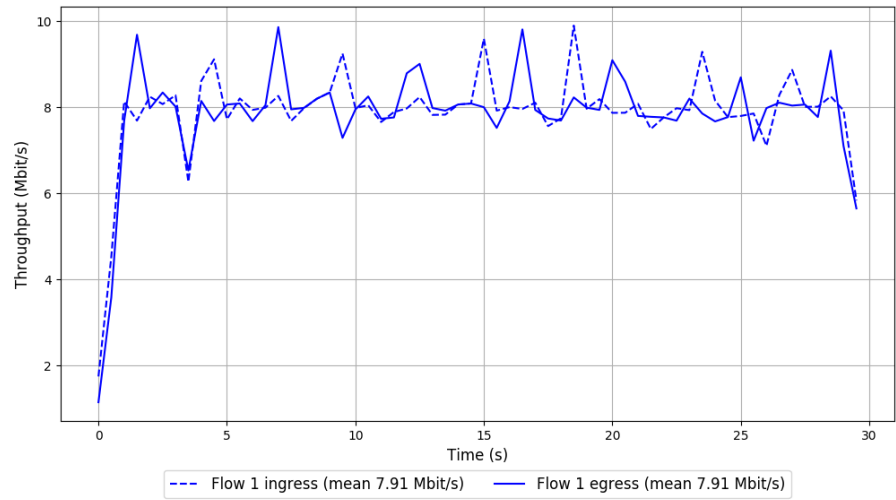
-- Flow 1:

Average throughput: 7.91 Mbit/s

95th percentile per-packet one-way delay: 51.206 ms

Loss rate: 0.41%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-16 08:14:21

End at: 2018-02-16 08:14:51

Below is generated by plot.py at 2018-02-16 11:26:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.29%

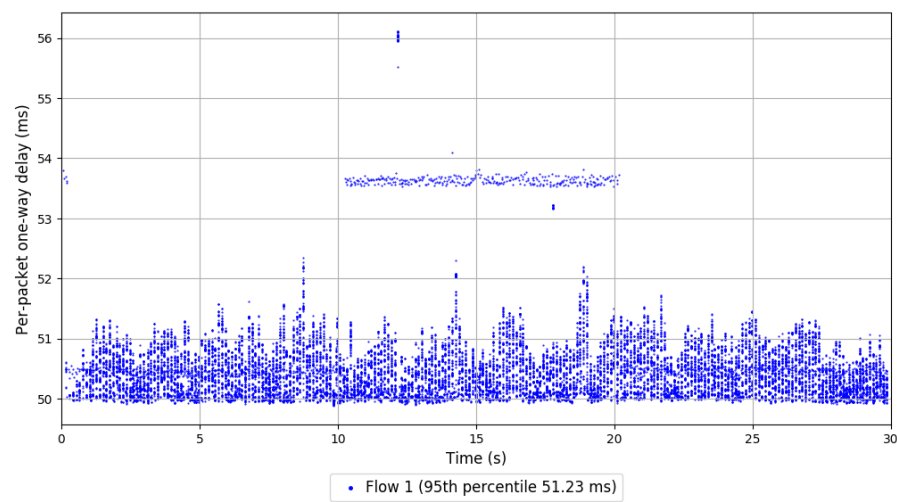
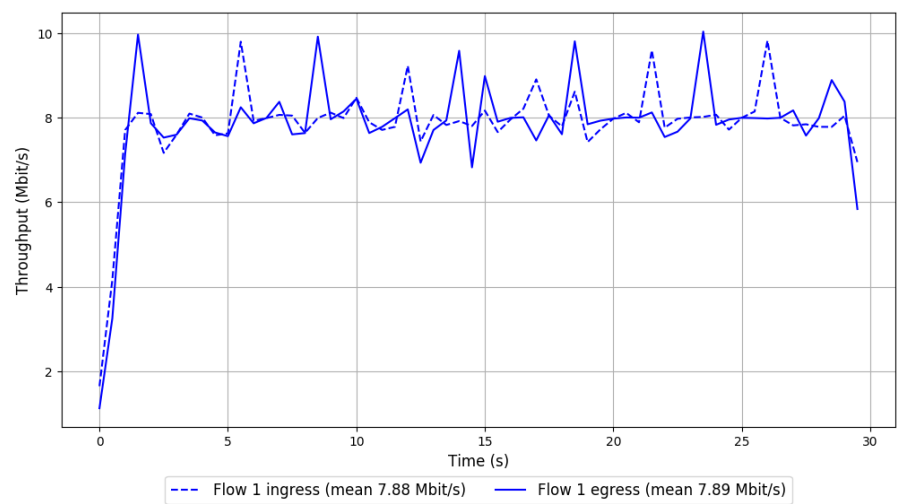
-- Flow 1:

Average throughput: 7.89 Mbit/s

95th percentile per-packet one-way delay: 51.226 ms

Loss rate: 0.29%

Run 10: Report of Sprout — Data Link

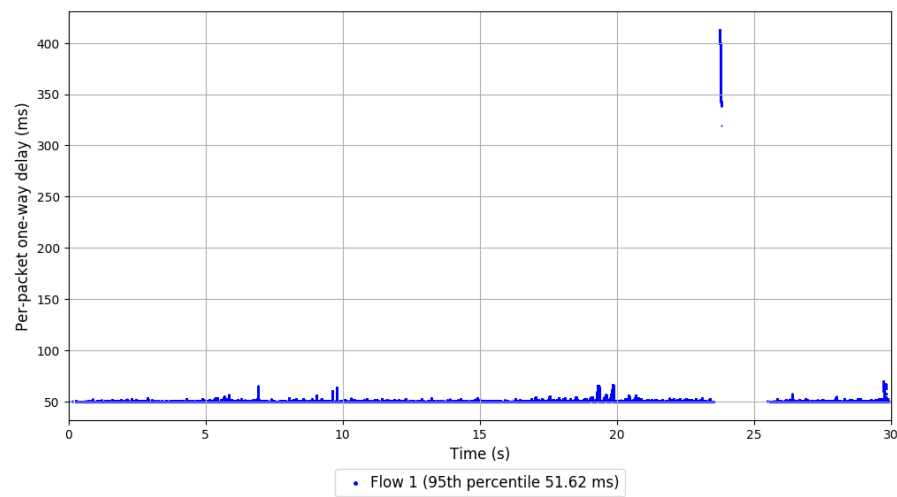
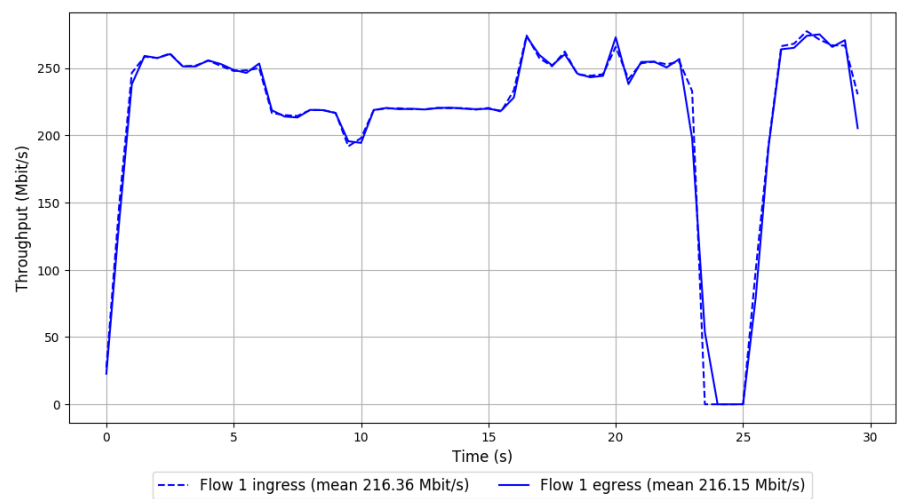


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-16 06:09:42
End at: 2018-02-16 06:10:12

# Below is generated by plot.py at 2018-02-16 11:28:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 216.15 Mbit/s
95th percentile per-packet one-way delay: 51.622 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 216.15 Mbit/s
95th percentile per-packet one-way delay: 51.622 ms
Loss rate: 0.43%
```

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

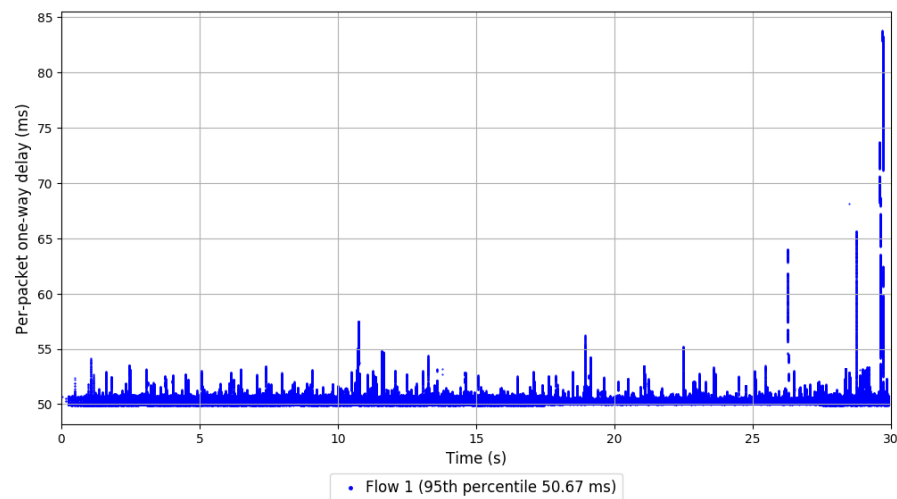
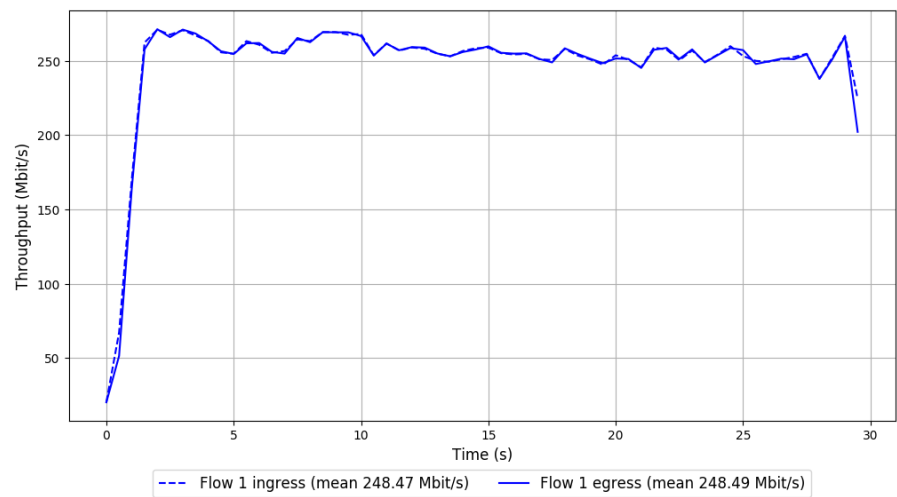


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-16 06:24:24
End at: 2018-02-16 06:24:54

# Below is generated by plot.py at 2018-02-16 11:29:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 248.49 Mbit/s
95th percentile per-packet one-way delay: 50.668 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 248.49 Mbit/s
95th percentile per-packet one-way delay: 50.668 ms
Loss rate: 0.33%
```

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

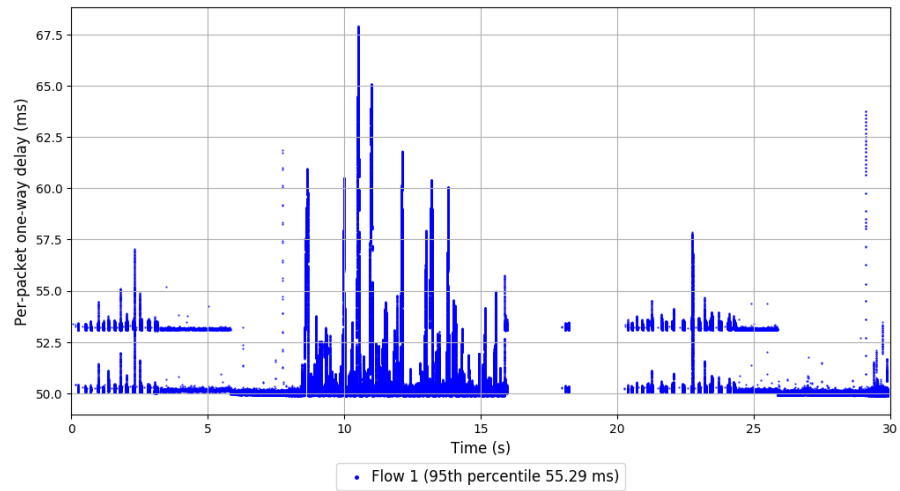
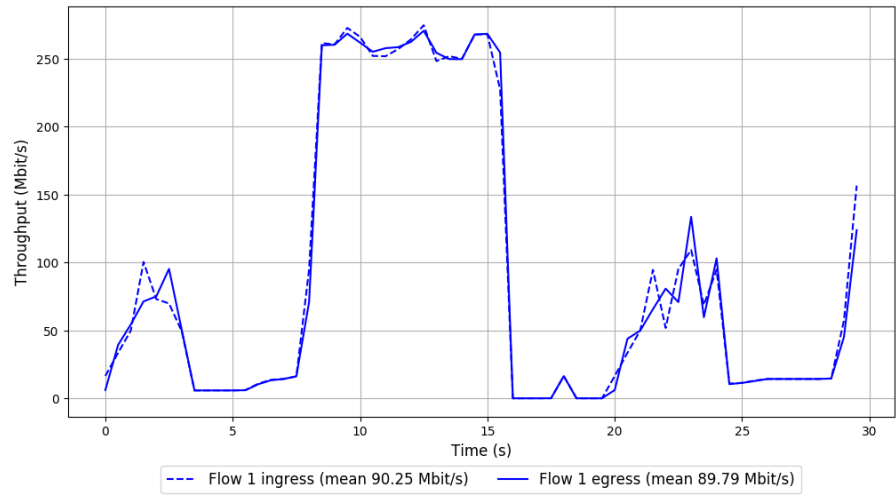


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-02-16 06:39:06
End at: 2018-02-16 06:39:36

# Below is generated by plot.py at 2018-02-16 11:29:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 55.286 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 89.79 Mbit/s
95th percentile per-packet one-way delay: 55.286 ms
Loss rate: 0.86%
```

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-16 06:53:52

End at: 2018-02-16 06:54:22

Below is generated by plot.py at 2018-02-16 11:29:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.02%

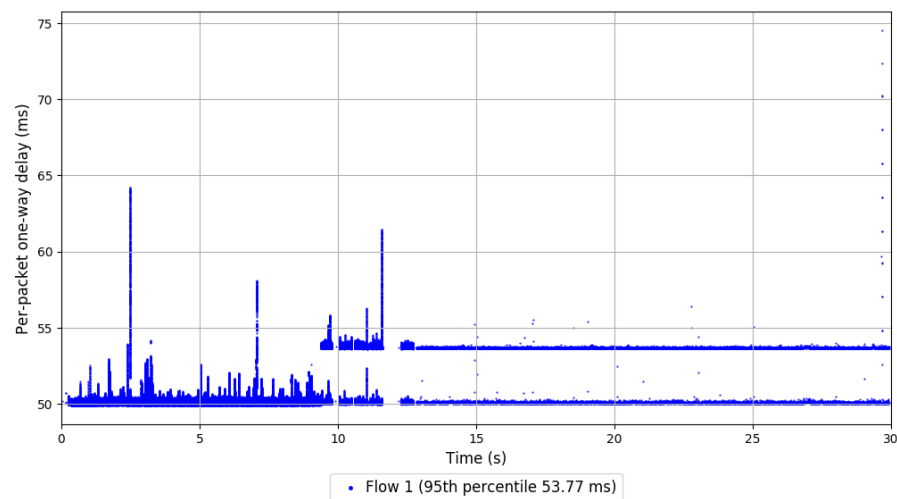
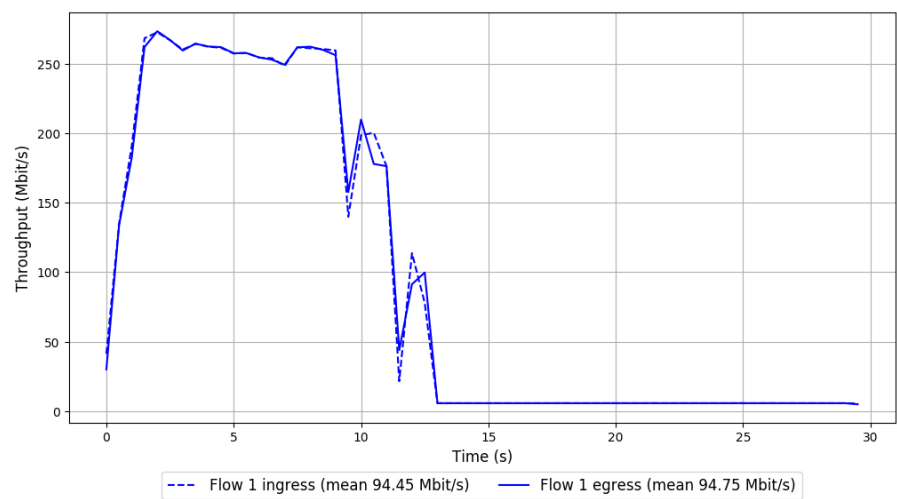
-- Flow 1:

Average throughput: 94.75 Mbit/s

95th percentile per-packet one-way delay: 53.770 ms

Loss rate: 0.02%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-16 07:08:21

End at: 2018-02-16 07:08:51

Below is generated by plot.py at 2018-02-16 11:29:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 252.77 Mbit/s

95th percentile per-packet one-way delay: 50.314 ms

Loss rate: 0.35%

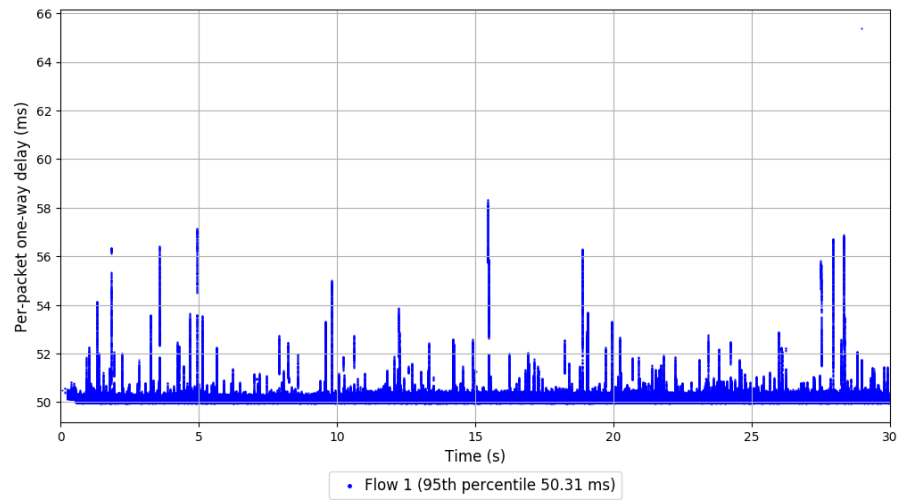
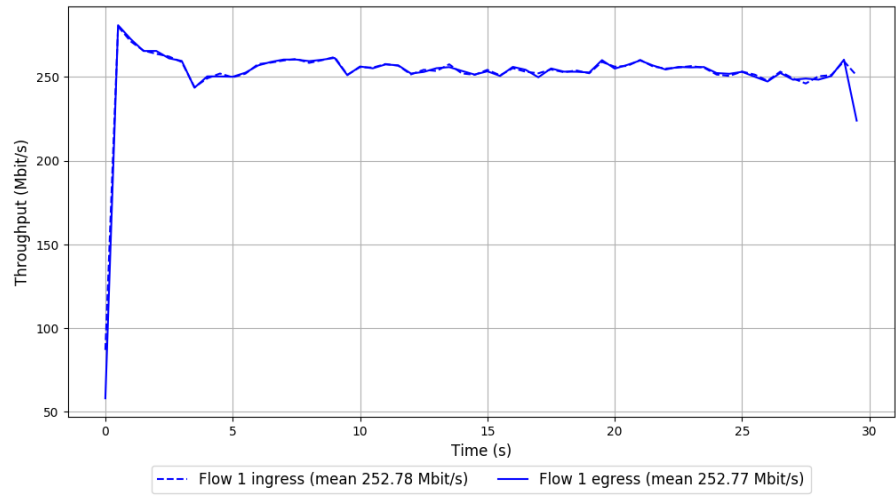
-- Flow 1:

Average throughput: 252.77 Mbit/s

95th percentile per-packet one-way delay: 50.314 ms

Loss rate: 0.35%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-16 07:23:15

End at: 2018-02-16 07:23:45

Below is generated by plot.py at 2018-02-16 11:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 255.45 Mbit/s

95th percentile per-packet one-way delay: 50.385 ms

Loss rate: 0.35%

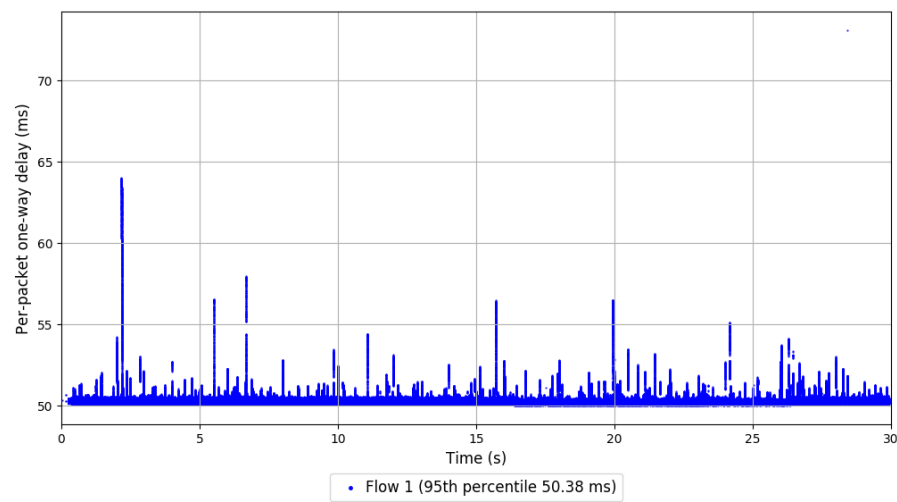
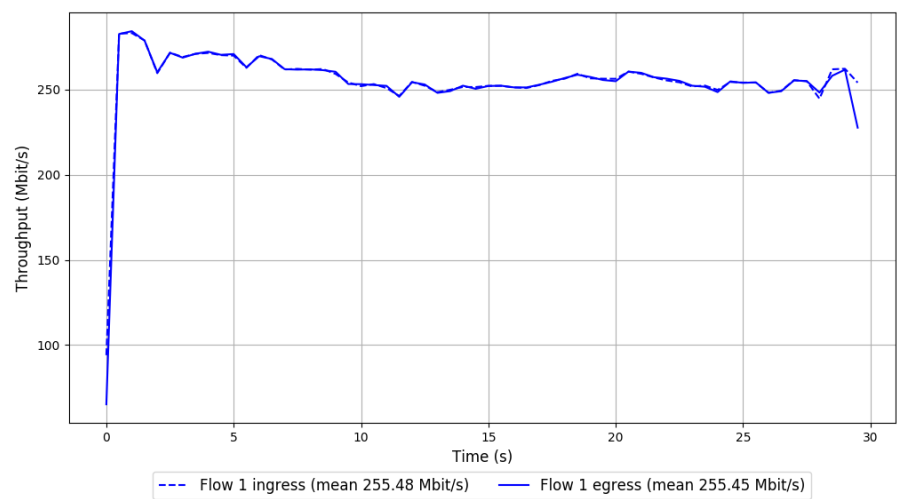
-- Flow 1:

Average throughput: 255.45 Mbit/s

95th percentile per-packet one-way delay: 50.385 ms

Loss rate: 0.35%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-16 07:38:09

End at: 2018-02-16 07:38:39

Below is generated by plot.py at 2018-02-16 11:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.27%

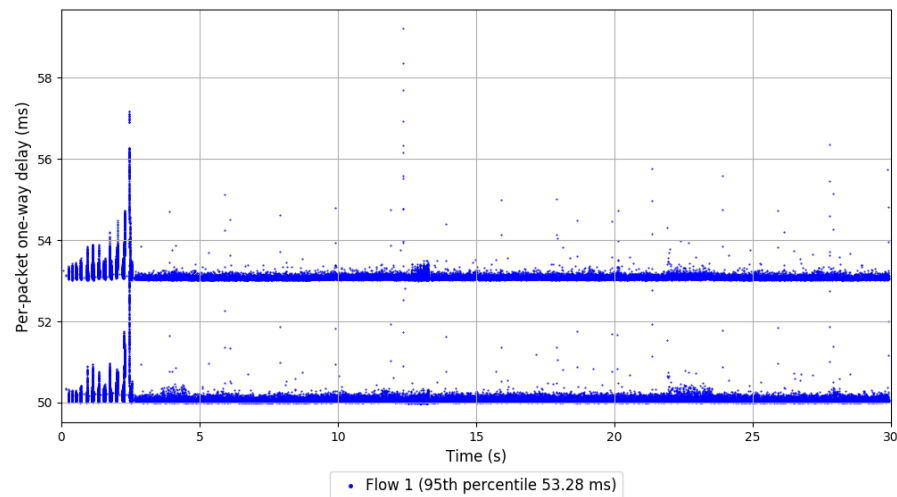
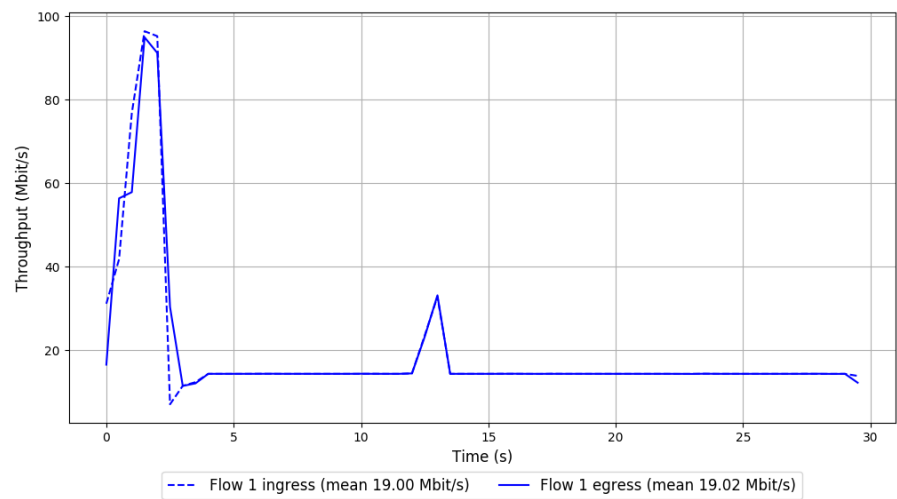
-- Flow 1:

Average throughput: 19.02 Mbit/s

95th percentile per-packet one-way delay: 53.280 ms

Loss rate: 0.27%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-16 07:52:36

End at: 2018-02-16 07:53:06

Below is generated by plot.py at 2018-02-16 11:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 53.293 ms

Loss rate: 0.07%

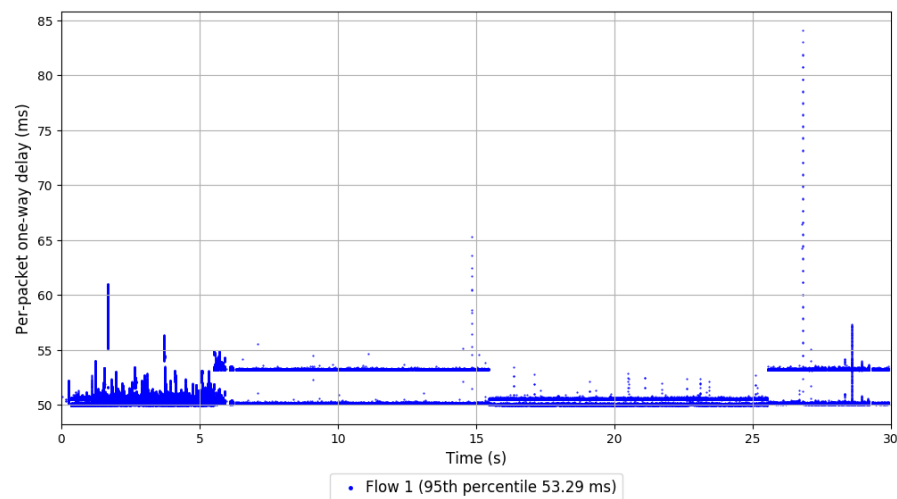
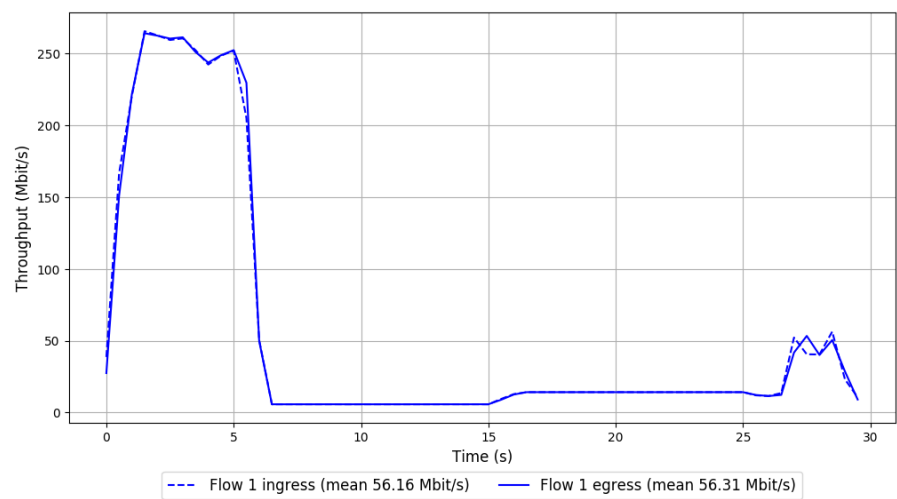
-- Flow 1:

Average throughput: 56.31 Mbit/s

95th percentile per-packet one-way delay: 53.293 ms

Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-16 08:06:55

End at: 2018-02-16 08:07:25

Below is generated by plot.py at 2018-02-16 11:30:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 53.050 ms

Loss rate: 0.03%

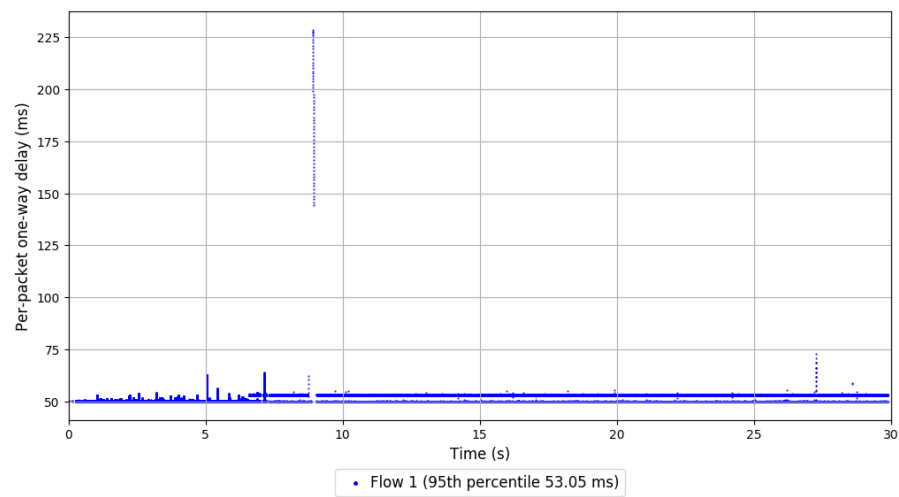
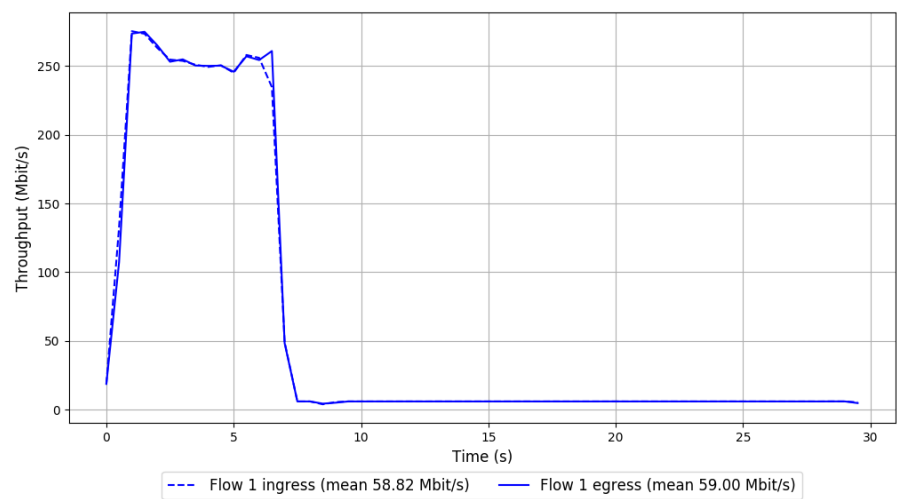
-- Flow 1:

Average throughput: 59.00 Mbit/s

95th percentile per-packet one-way delay: 53.050 ms

Loss rate: 0.03%

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

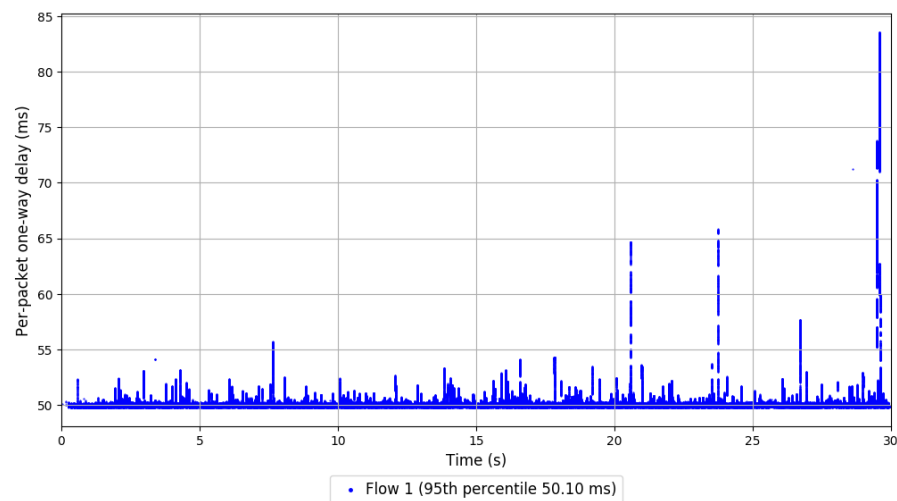
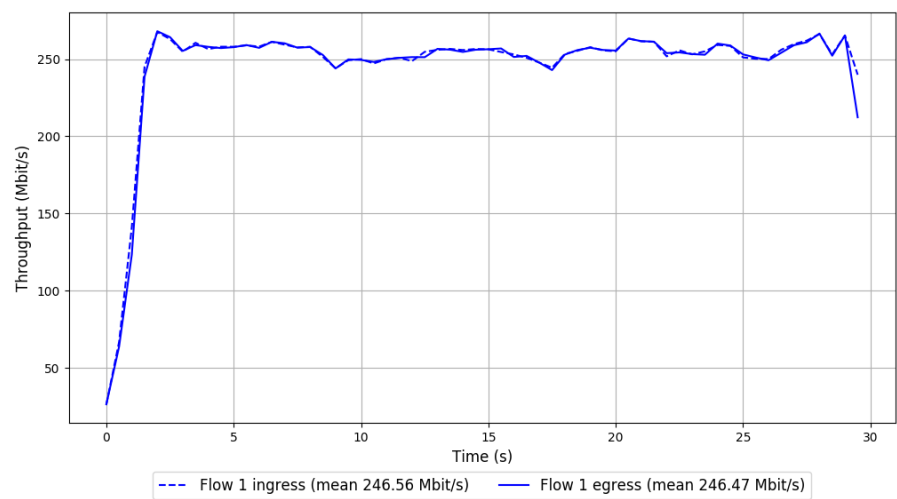


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-16 08:21:29
End at: 2018-02-16 08:21:59

# Below is generated by plot.py at 2018-02-16 11:34:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 246.47 Mbit/s
95th percentile per-packet one-way delay: 50.105 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 246.47 Mbit/s
95th percentile per-packet one-way delay: 50.105 ms
Loss rate: 0.38%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-16 06:15:13

End at: 2018-02-16 06:15:43

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.56 Mbit/s

95th percentile per-packet one-way delay: 51.435 ms

Loss rate: 0.37%

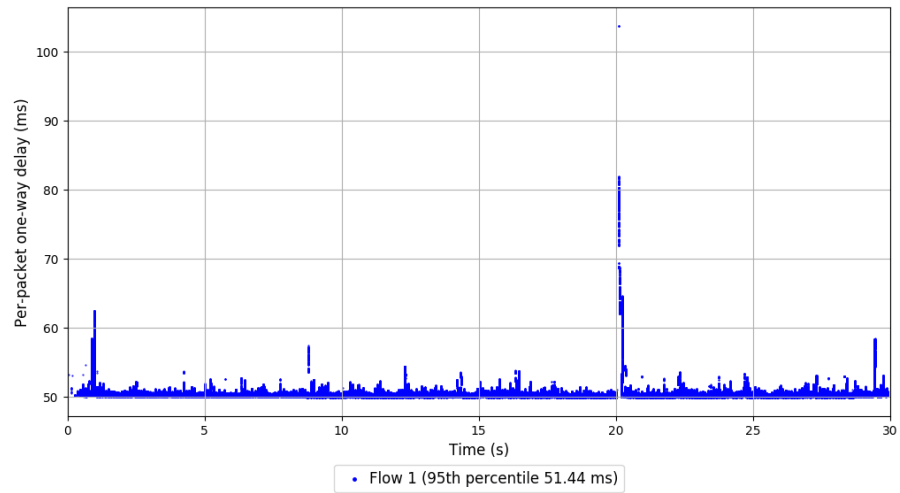
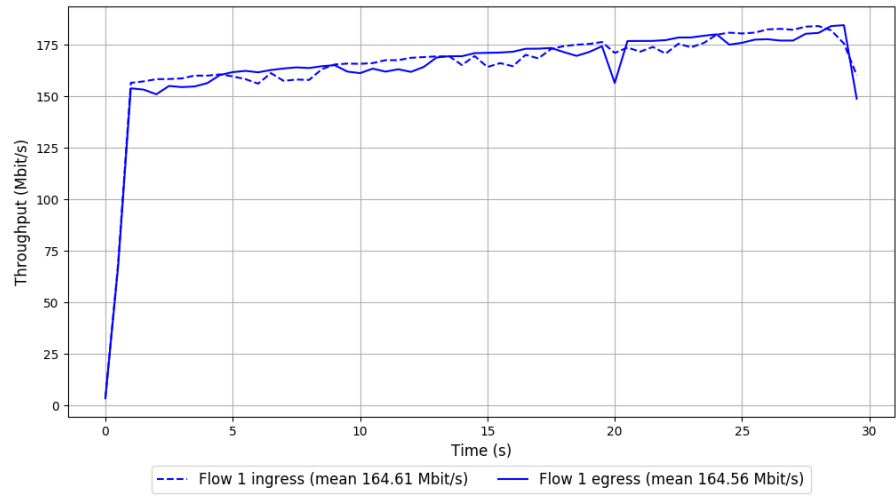
-- Flow 1:

Average throughput: 164.56 Mbit/s

95th percentile per-packet one-way delay: 51.435 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-16 06:30:01

End at: 2018-02-16 06:30:31

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 50.999 ms

Loss rate: 0.35%

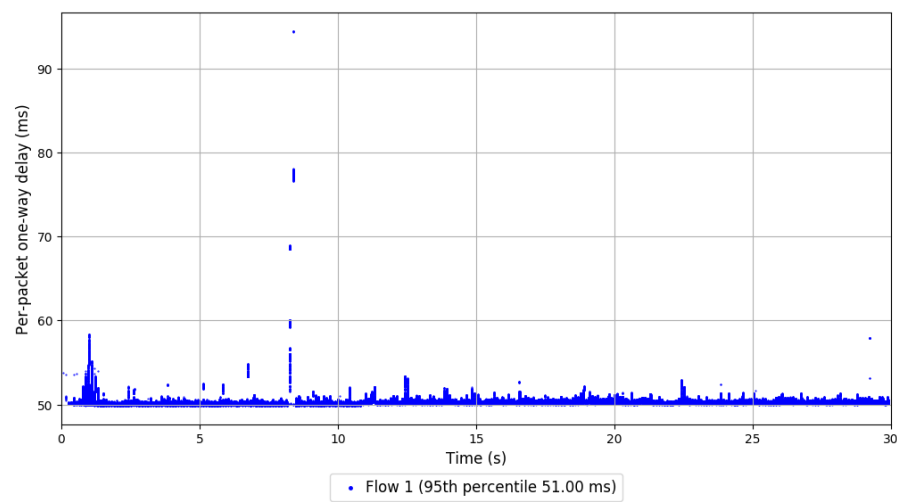
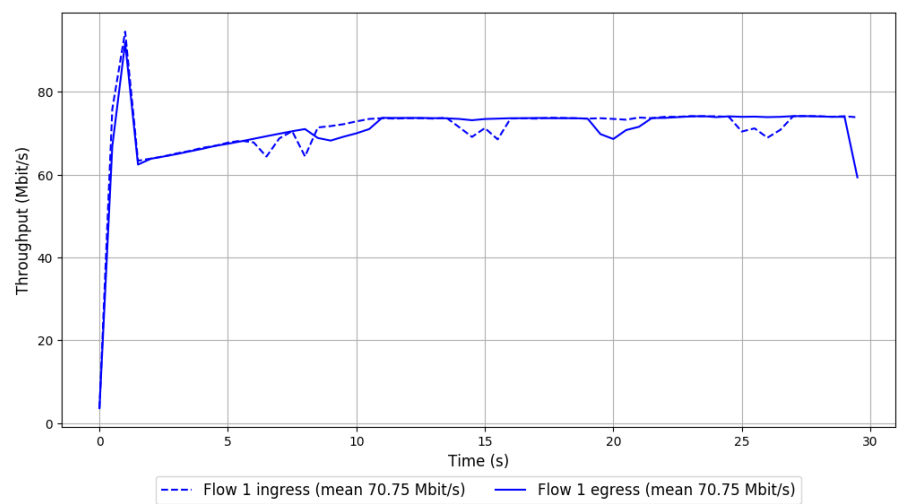
-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 50.999 ms

Loss rate: 0.35%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-16 06:44:42

End at: 2018-02-16 06:45:12

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.56 Mbit/s

95th percentile per-packet one-way delay: 58.482 ms

Loss rate: 0.37%

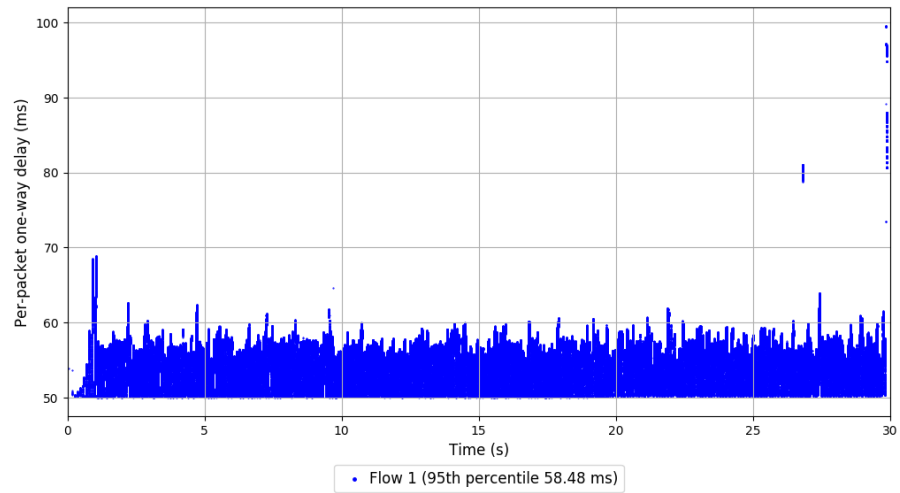
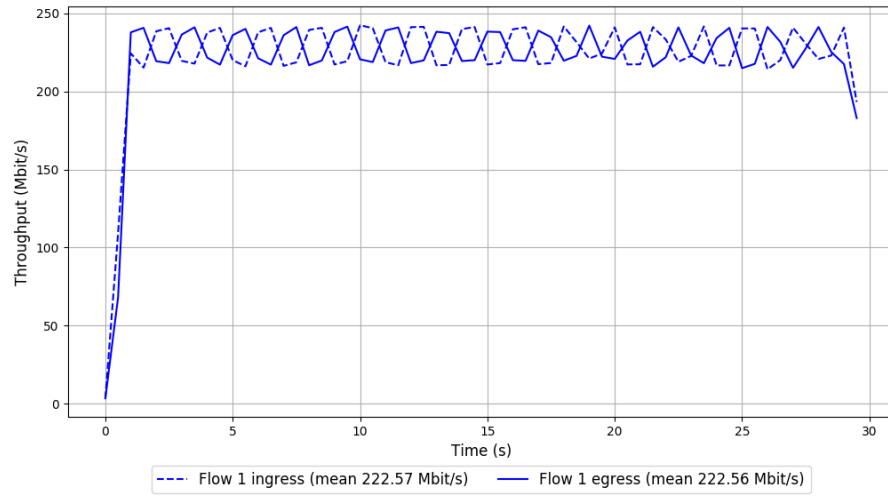
-- Flow 1:

Average throughput: 222.56 Mbit/s

95th percentile per-packet one-way delay: 58.482 ms

Loss rate: 0.37%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-16 06:59:15

End at: 2018-02-16 06:59:45

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.33 Mbit/s

95th percentile per-packet one-way delay: 59.301 ms

Loss rate: 0.13%

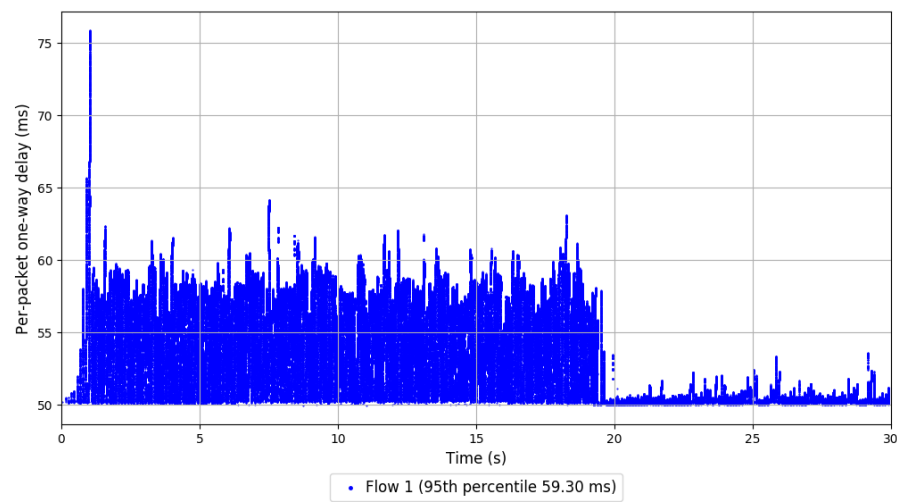
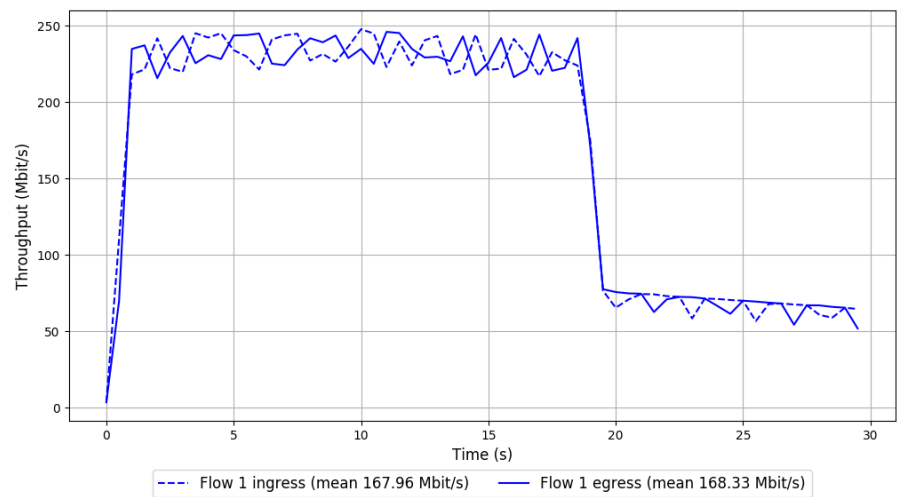
-- Flow 1:

Average throughput: 168.33 Mbit/s

95th percentile per-packet one-way delay: 59.301 ms

Loss rate: 0.13%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-16 07:13:57

End at: 2018-02-16 07:14:28

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.74 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.29%

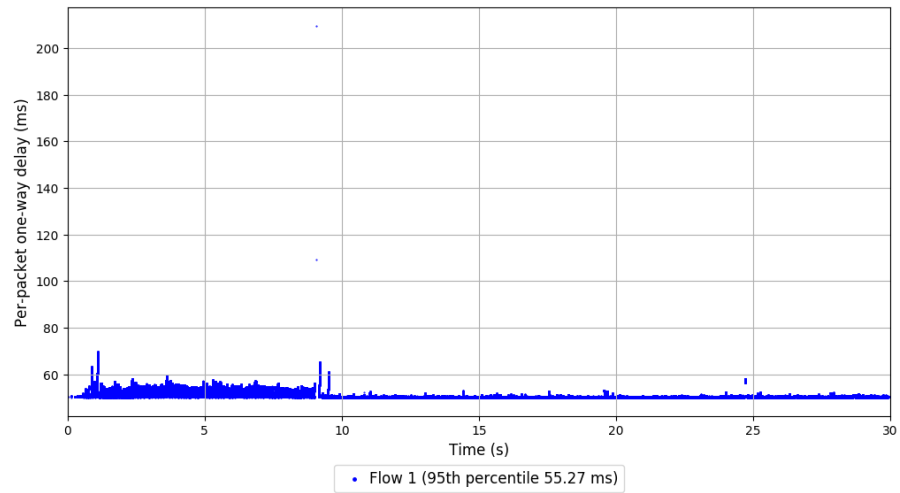
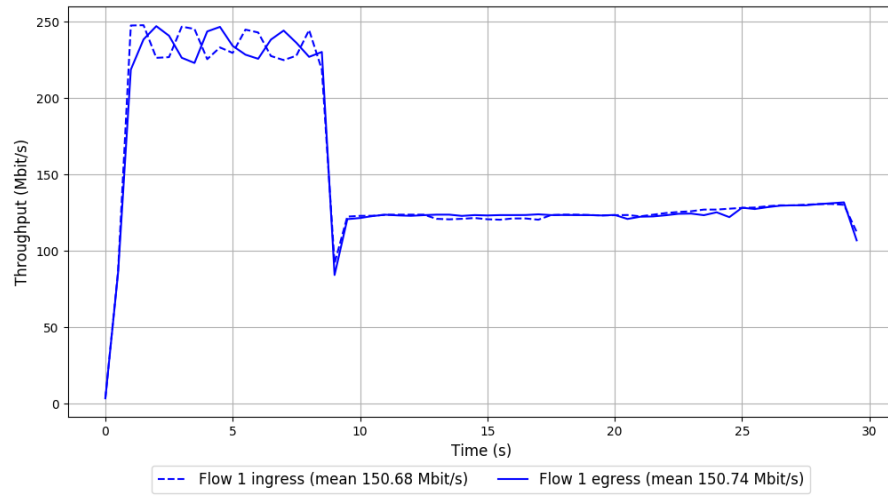
-- Flow 1:

Average throughput: 150.74 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.29%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-16 07:28:49

End at: 2018-02-16 07:29:19

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.35 Mbit/s

95th percentile per-packet one-way delay: 59.568 ms

Loss rate: 0.29%

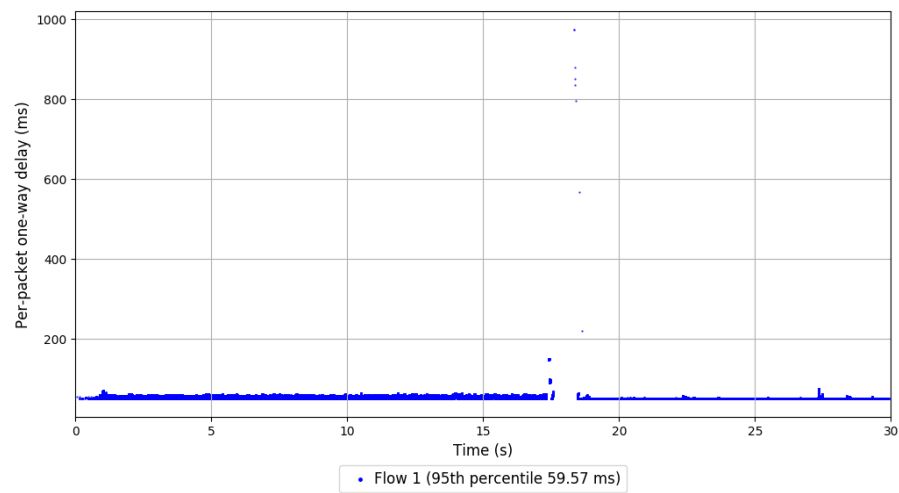
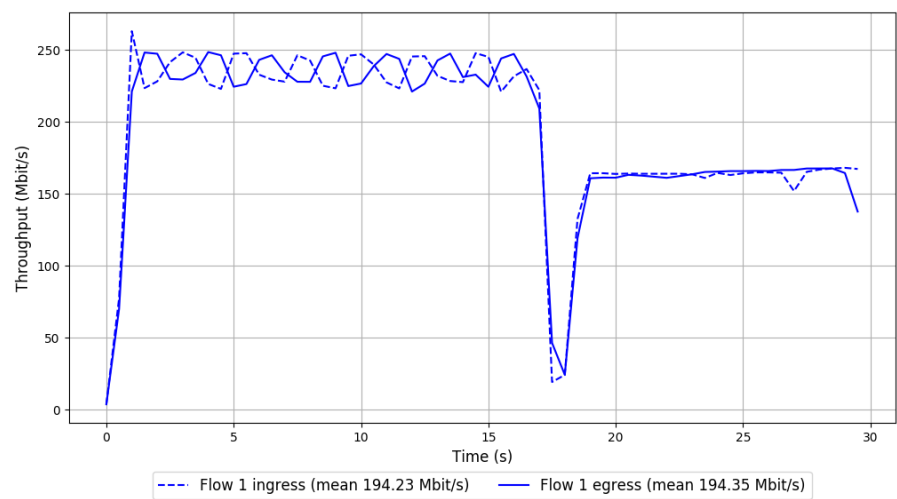
-- Flow 1:

Average throughput: 194.35 Mbit/s

95th percentile per-packet one-way delay: 59.568 ms

Loss rate: 0.29%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-16 07:43:25

End at: 2018-02-16 07:43:55

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.80 Mbit/s

95th percentile per-packet one-way delay: 58.463 ms

Loss rate: 0.28%

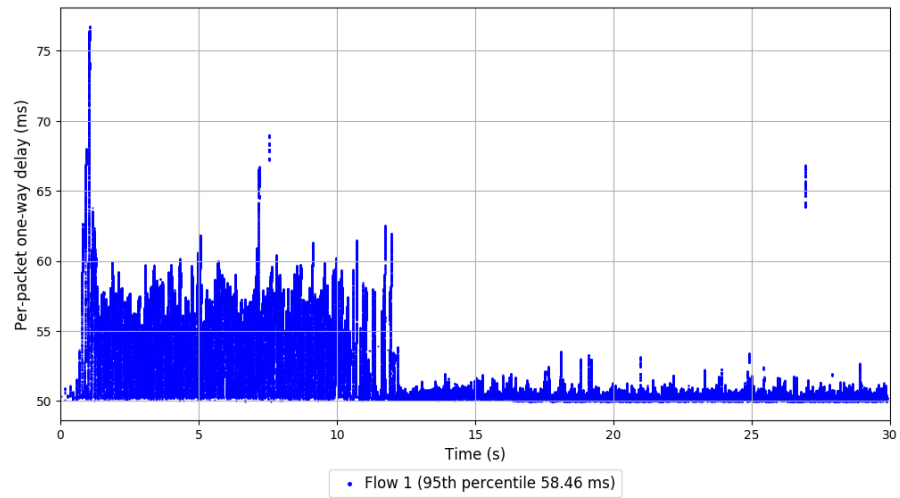
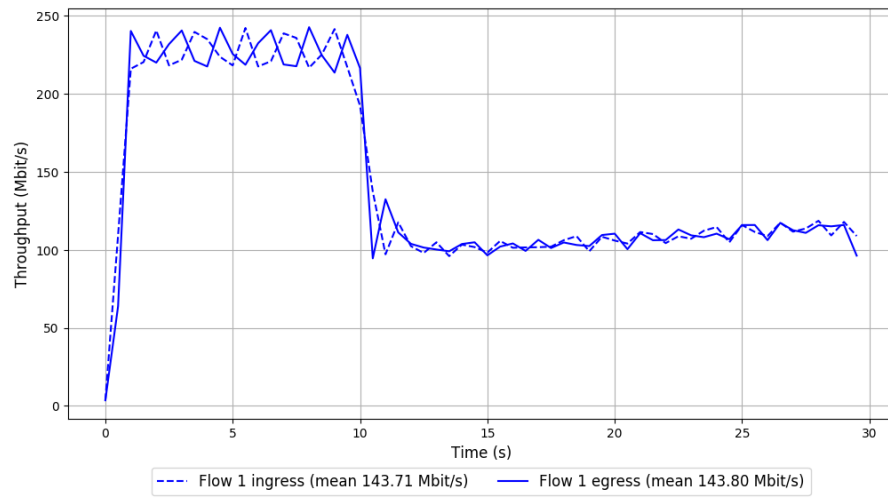
-- Flow 1:

Average throughput: 143.80 Mbit/s

95th percentile per-packet one-way delay: 58.463 ms

Loss rate: 0.28%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-16 07:57:54

End at: 2018-02-16 07:58:24

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.30 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.33%

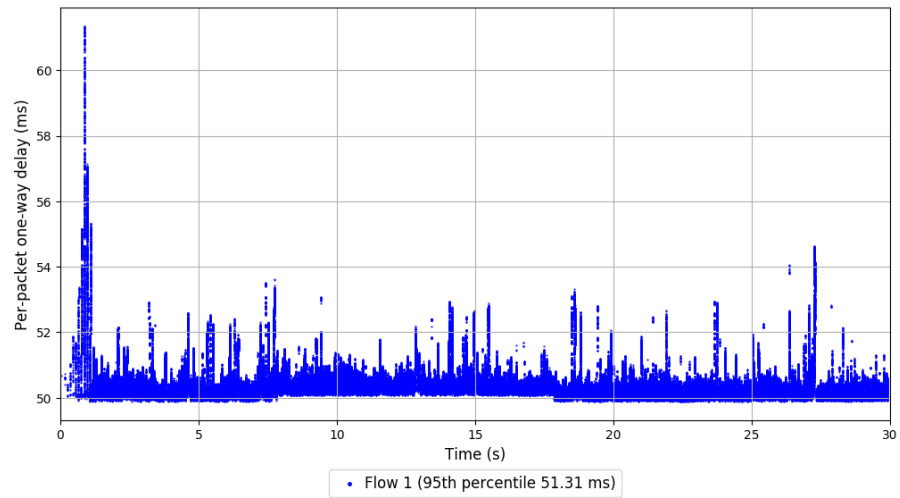
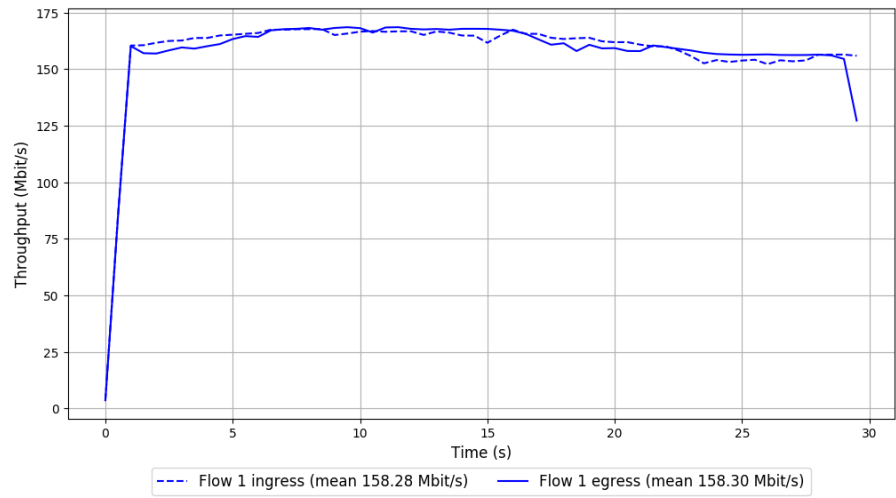
-- Flow 1:

Average throughput: 158.30 Mbit/s

95th percentile per-packet one-way delay: 51.309 ms

Loss rate: 0.33%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-16 08:12:27

End at: 2018-02-16 08:12:57

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 145.85 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.37%

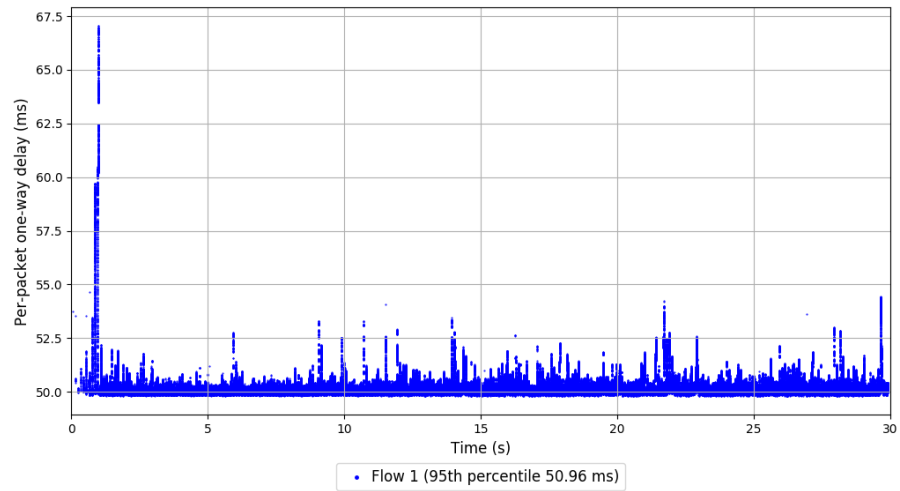
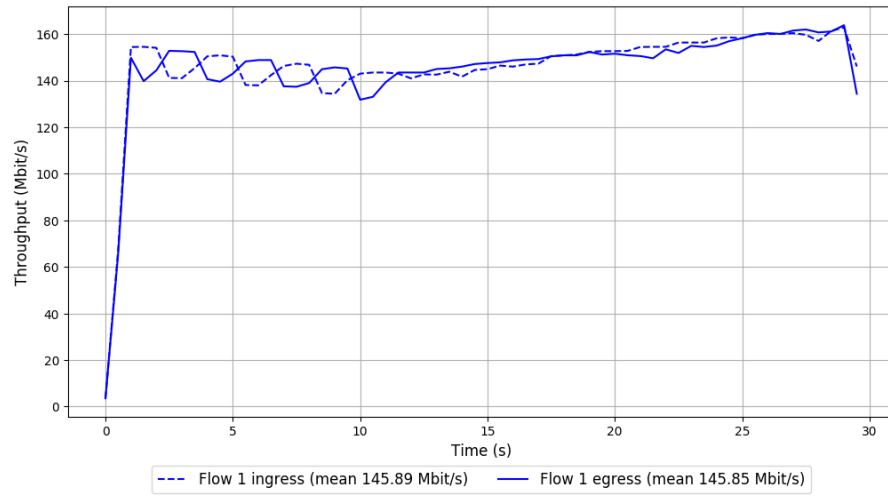
-- Flow 1:

Average throughput: 145.85 Mbit/s

95th percentile per-packet one-way delay: 50.962 ms

Loss rate: 0.37%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-16 08:27:00

End at: 2018-02-16 08:27:30

Below is generated by plot.py at 2018-02-16 11:34:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.99 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.36%

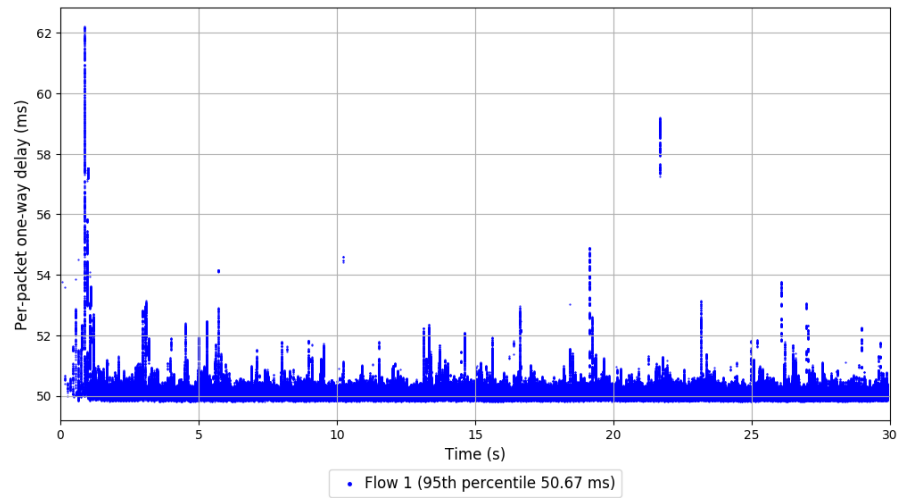
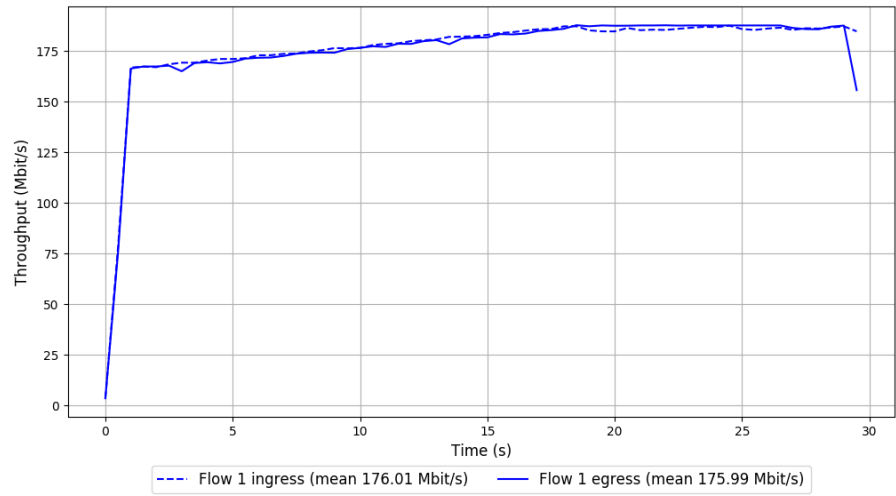
-- Flow 1:

Average throughput: 175.99 Mbit/s

95th percentile per-packet one-way delay: 50.675 ms

Loss rate: 0.36%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-16 06:10:37

End at: 2018-02-16 06:11:07

Below is generated by plot.py at 2018-02-16 11:35:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.85 Mbit/s

95th percentile per-packet one-way delay: 119.511 ms

Loss rate: 0.61%

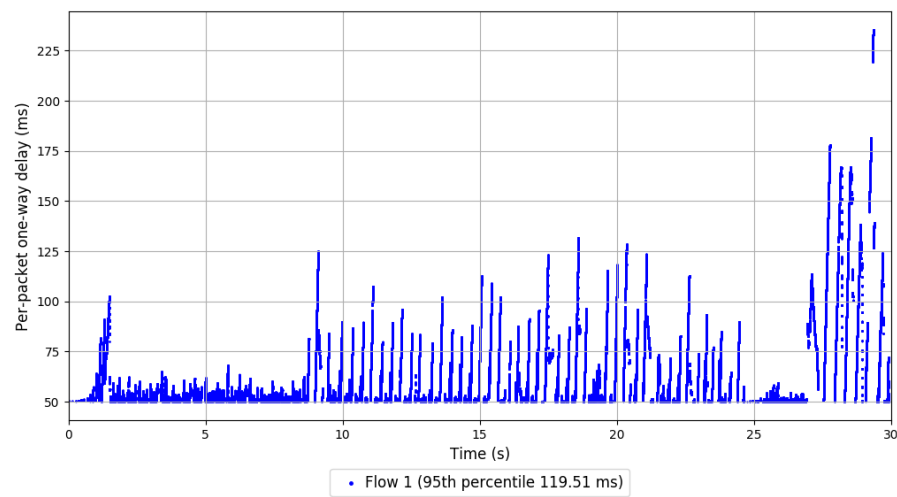
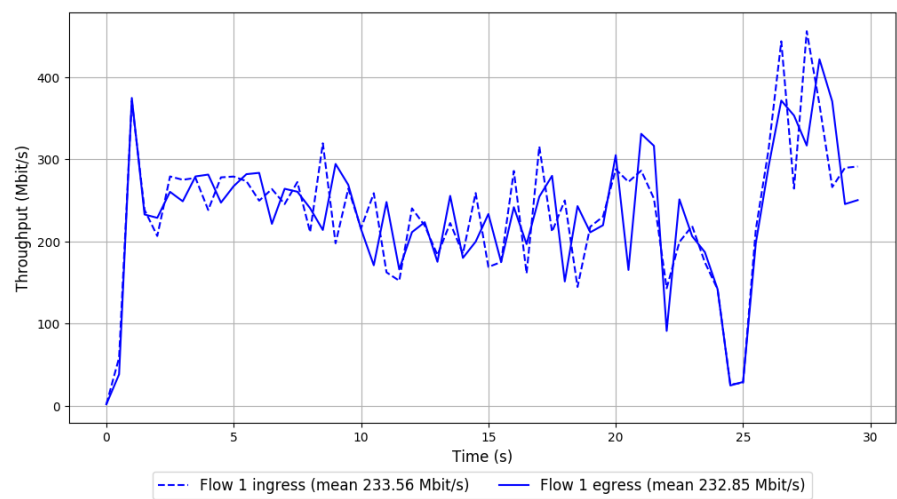
-- Flow 1:

Average throughput: 232.85 Mbit/s

95th percentile per-packet one-way delay: 119.511 ms

Loss rate: 0.61%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-16 06:25:22

End at: 2018-02-16 06:25:52

Below is generated by plot.py at 2018-02-16 11:35:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.36 Mbit/s

95th percentile per-packet one-way delay: 91.770 ms

Loss rate: 0.60%

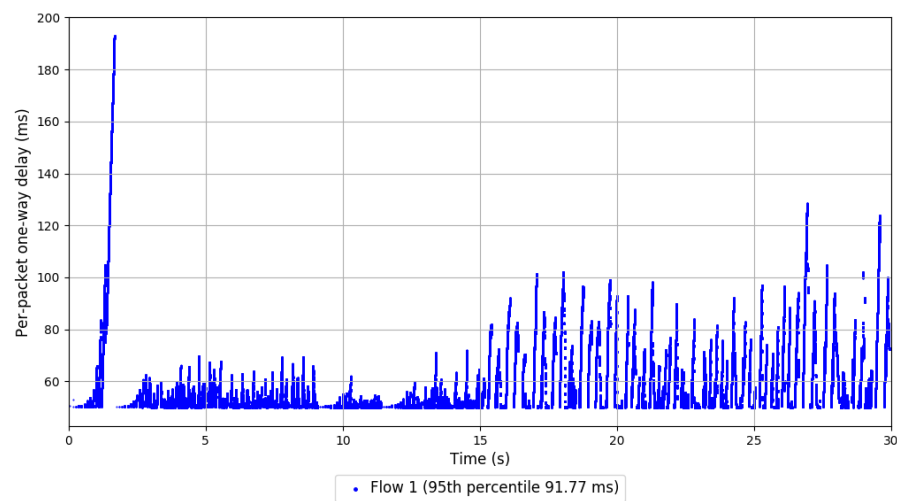
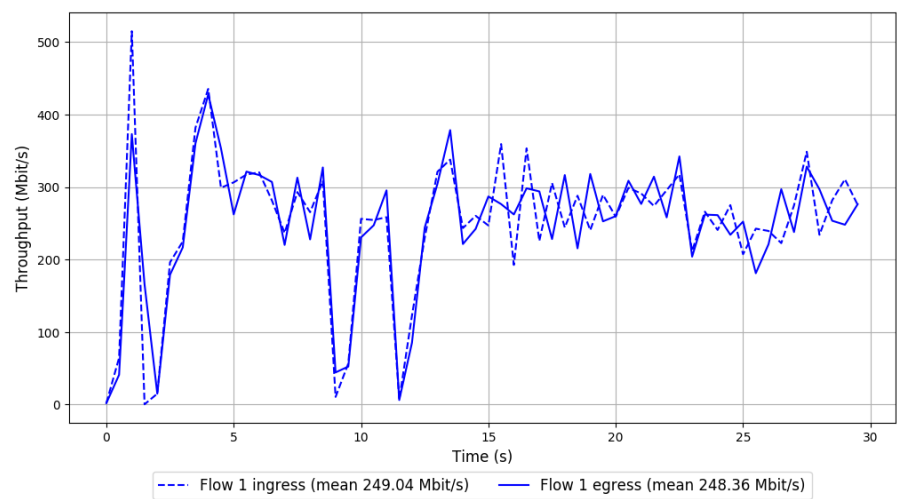
-- Flow 1:

Average throughput: 248.36 Mbit/s

95th percentile per-packet one-way delay: 91.770 ms

Loss rate: 0.60%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-16 06:39:50

End at: 2018-02-16 06:40:20

Below is generated by plot.py at 2018-02-16 11:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.95 Mbit/s

95th percentile per-packet one-way delay: 137.379 ms

Loss rate: 1.06%

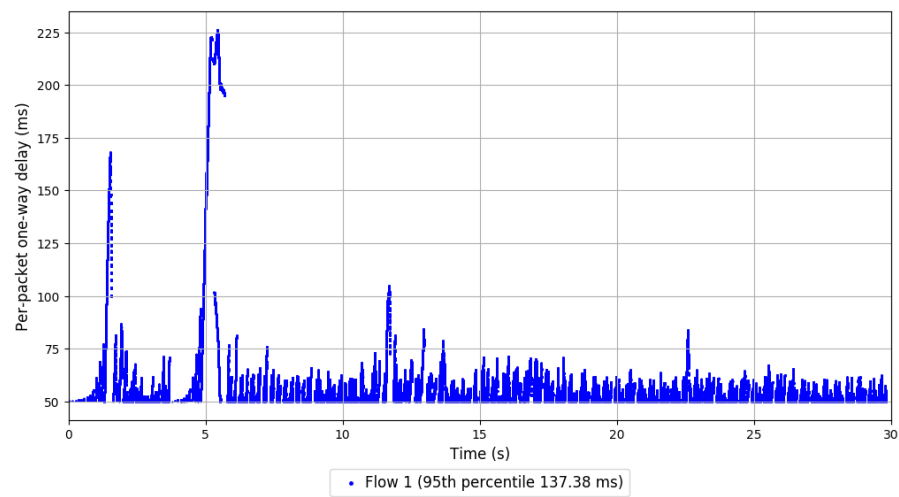
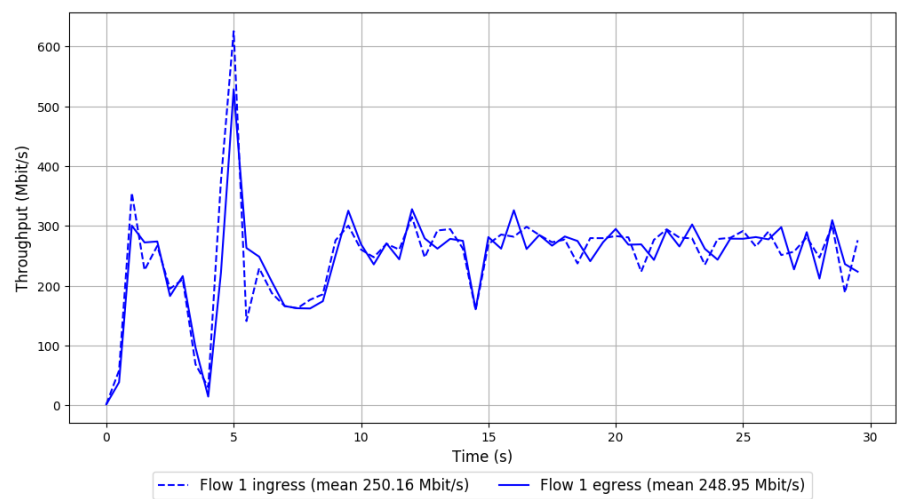
-- Flow 1:

Average throughput: 248.95 Mbit/s

95th percentile per-packet one-way delay: 137.379 ms

Loss rate: 1.06%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-16 06:54:36

End at: 2018-02-16 06:55:06

Below is generated by plot.py at 2018-02-16 11:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.65 Mbit/s

95th percentile per-packet one-way delay: 171.700 ms

Loss rate: 0.51%

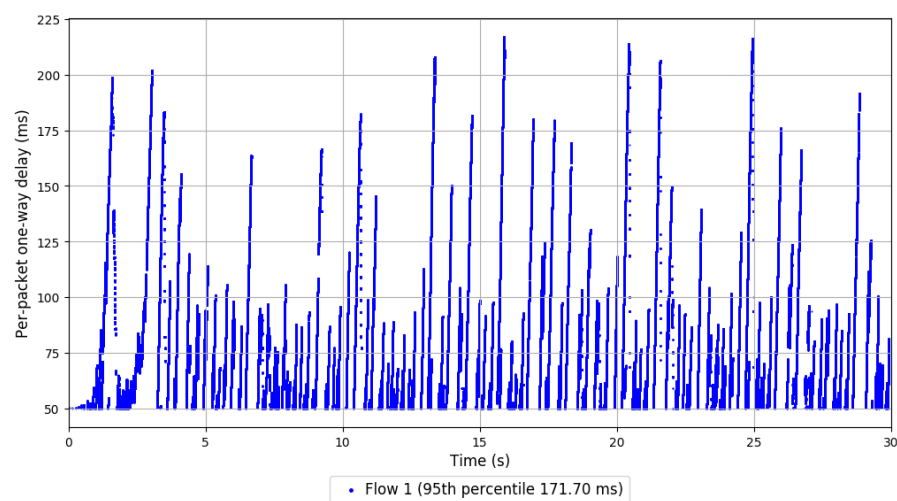
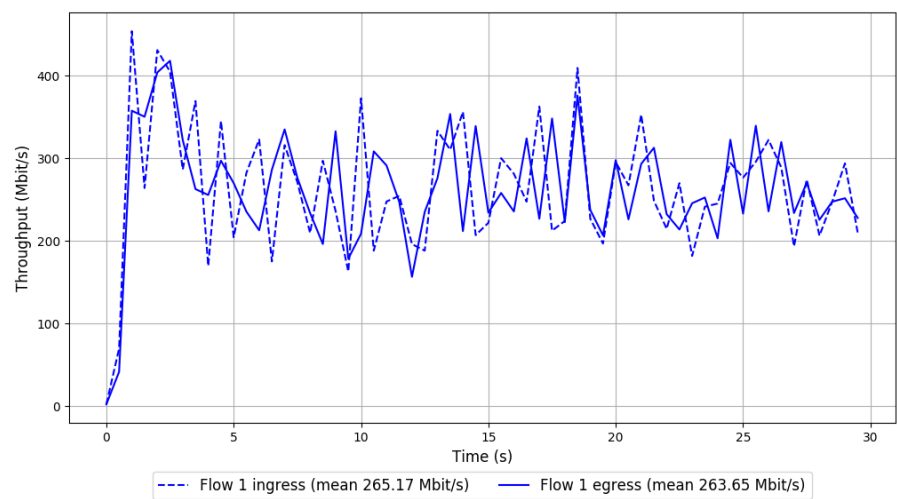
-- Flow 1:

Average throughput: 263.65 Mbit/s

95th percentile per-packet one-way delay: 171.700 ms

Loss rate: 0.51%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-16 07:09:19

End at: 2018-02-16 07:09:49

Below is generated by plot.py at 2018-02-16 11:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.40 Mbit/s

95th percentile per-packet one-way delay: 115.199 ms

Loss rate: 0.46%

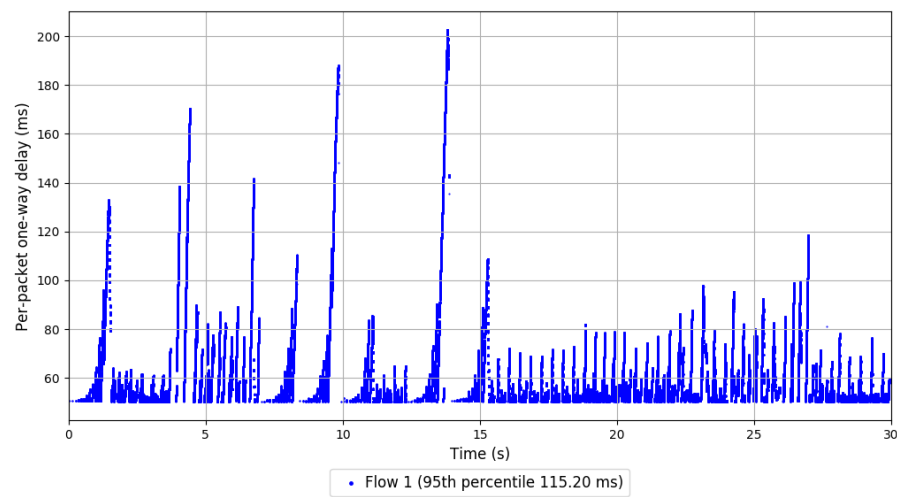
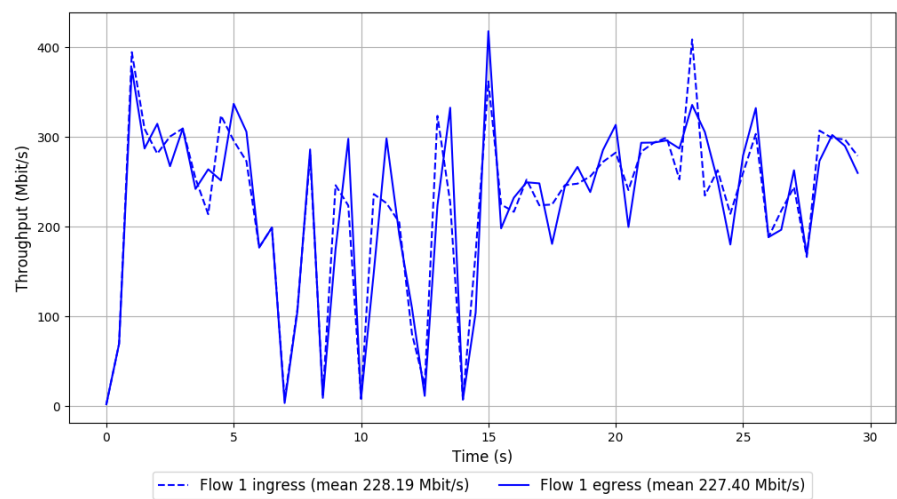
-- Flow 1:

Average throughput: 227.40 Mbit/s

95th percentile per-packet one-way delay: 115.199 ms

Loss rate: 0.46%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-16 07:24:13

End at: 2018-02-16 07:24:43

Below is generated by plot.py at 2018-02-16 11:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.85 Mbit/s

95th percentile per-packet one-way delay: 97.808 ms

Loss rate: 0.81%

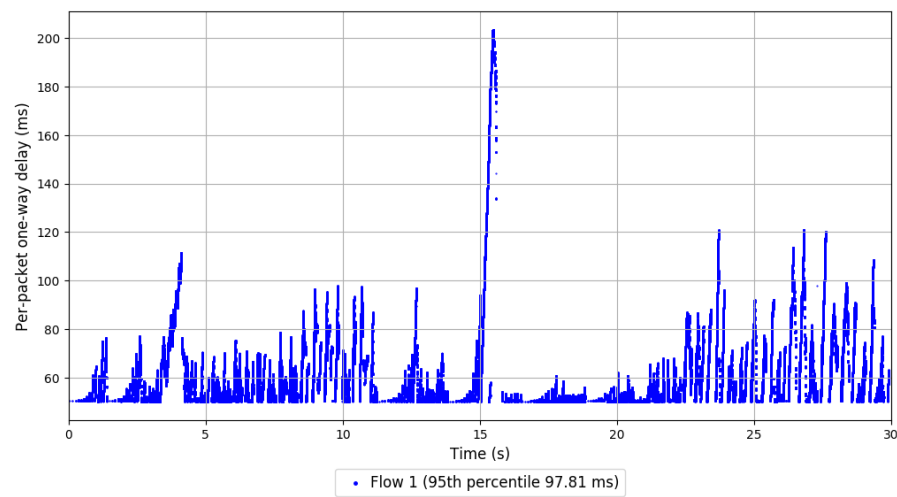
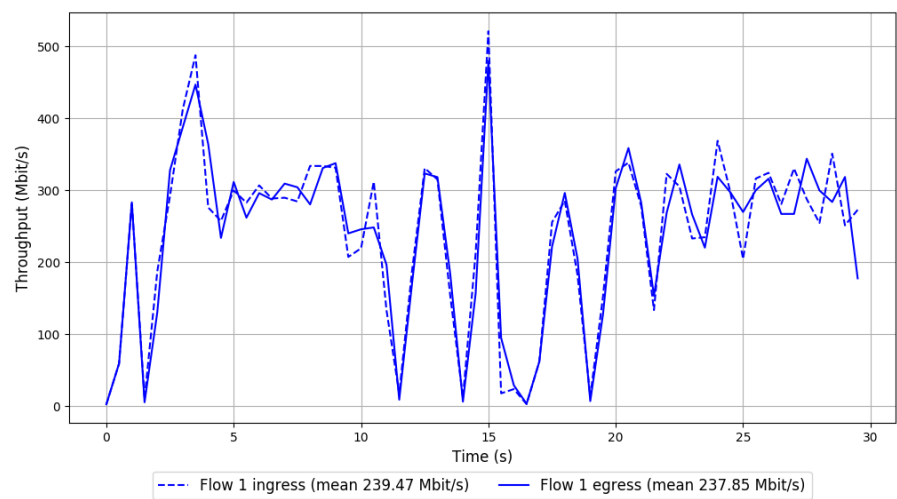
-- Flow 1:

Average throughput: 237.85 Mbit/s

95th percentile per-packet one-way delay: 97.808 ms

Loss rate: 0.81%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-16 07:38:48

End at: 2018-02-16 07:39:18

Below is generated by plot.py at 2018-02-16 11:38:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.17 Mbit/s

95th percentile per-packet one-way delay: 92.816 ms

Loss rate: 0.63%

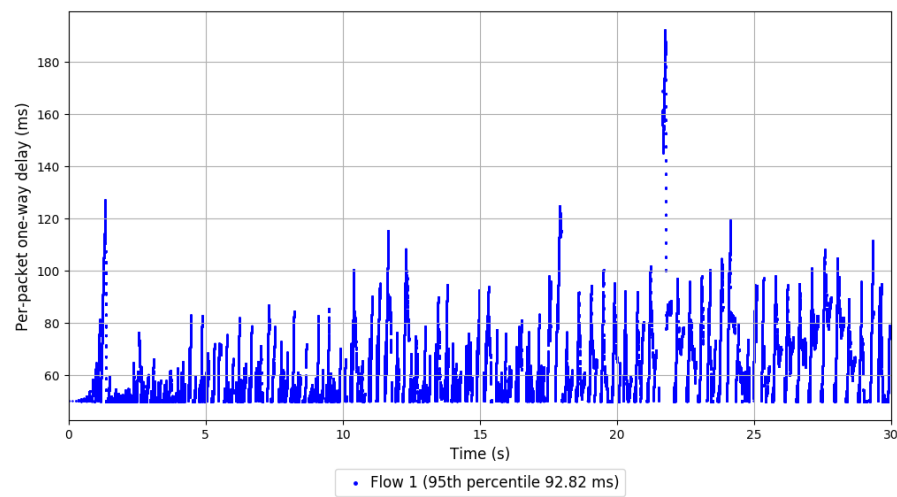
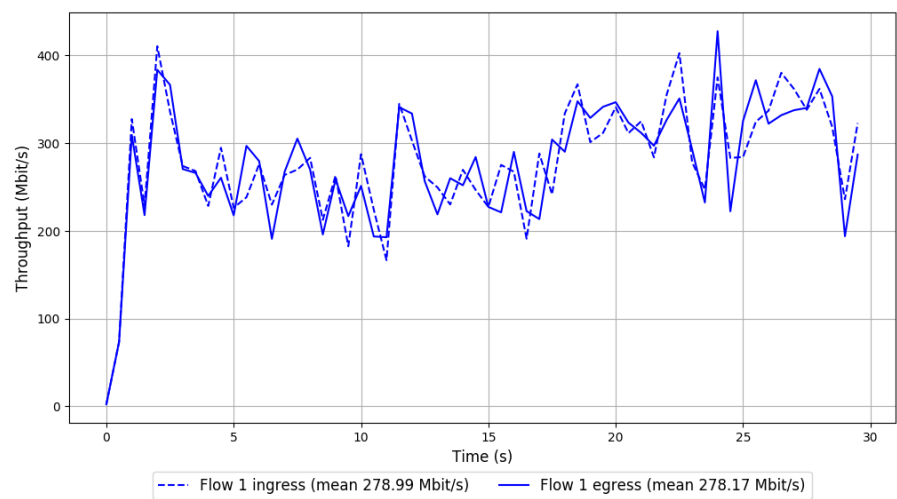
-- Flow 1:

Average throughput: 278.17 Mbit/s

95th percentile per-packet one-way delay: 92.816 ms

Loss rate: 0.63%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-16 07:53:18

End at: 2018-02-16 07:53:48

Below is generated by plot.py at 2018-02-16 11:38:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.02 Mbit/s

95th percentile per-packet one-way delay: 92.378 ms

Loss rate: 0.77%

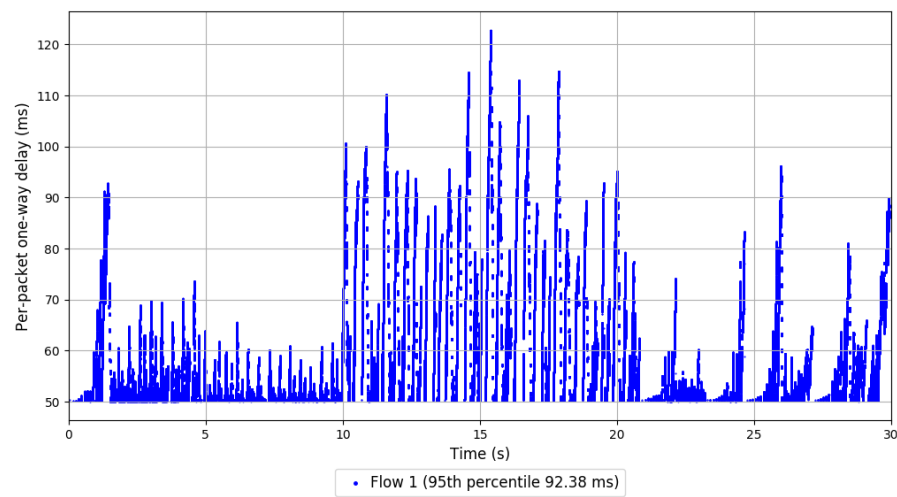
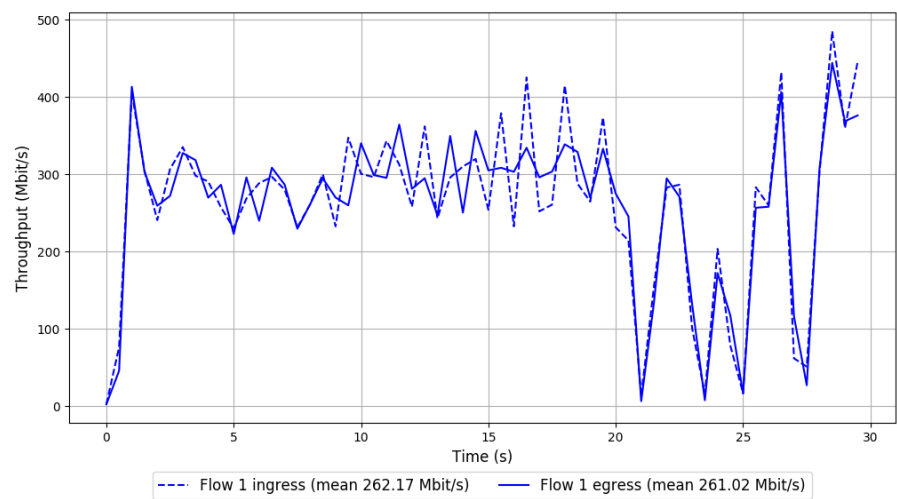
-- Flow 1:

Average throughput: 261.02 Mbit/s

95th percentile per-packet one-way delay: 92.378 ms

Loss rate: 0.77%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-16 08:07:36

End at: 2018-02-16 08:08:06

Below is generated by plot.py at 2018-02-16 11:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.91 Mbit/s

95th percentile per-packet one-way delay: 116.259 ms

Loss rate: 0.73%

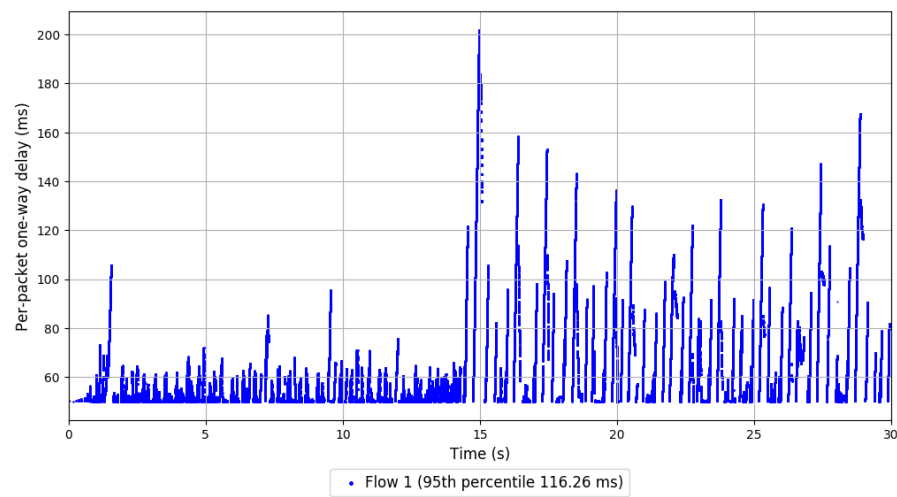
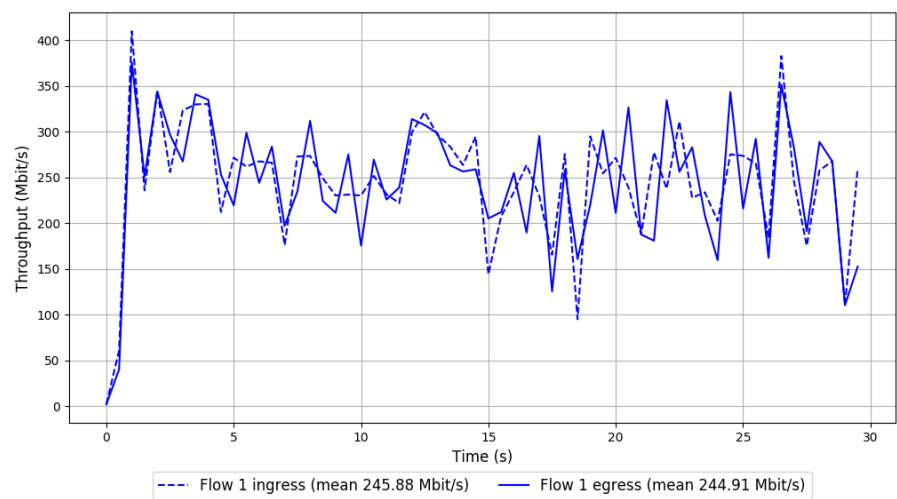
-- Flow 1:

Average throughput: 244.91 Mbit/s

95th percentile per-packet one-way delay: 116.259 ms

Loss rate: 0.73%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-16 08:22:26

End at: 2018-02-16 08:22:56

Below is generated by plot.py at 2018-02-16 11:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.24 Mbit/s

95th percentile per-packet one-way delay: 89.266 ms

Loss rate: 0.37%

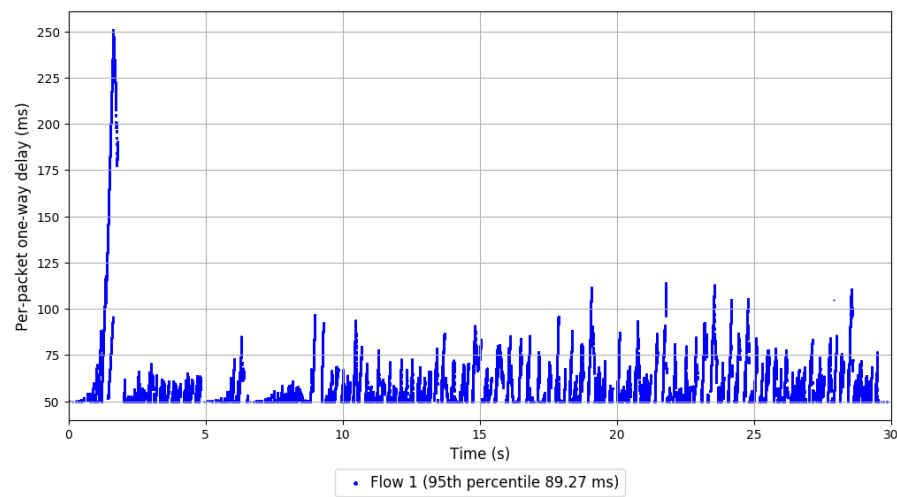
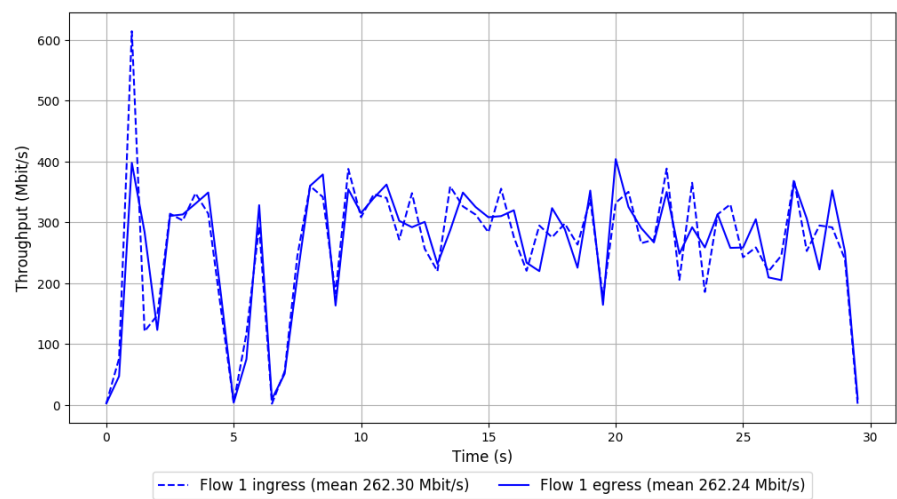
-- Flow 1:

Average throughput: 262.24 Mbit/s

95th percentile per-packet one-way delay: 89.266 ms

Loss rate: 0.37%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-16 06:13:36

End at: 2018-02-16 06:14:06

Below is generated by plot.py at 2018-02-16 11:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.12%

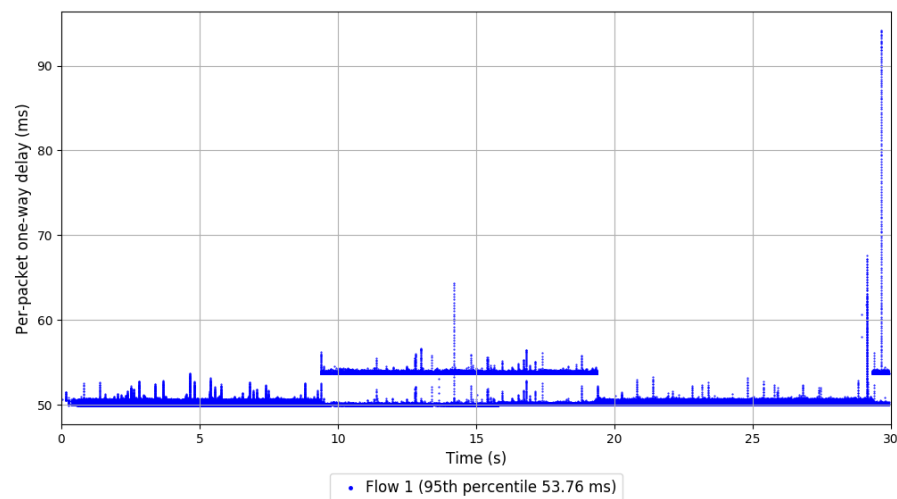
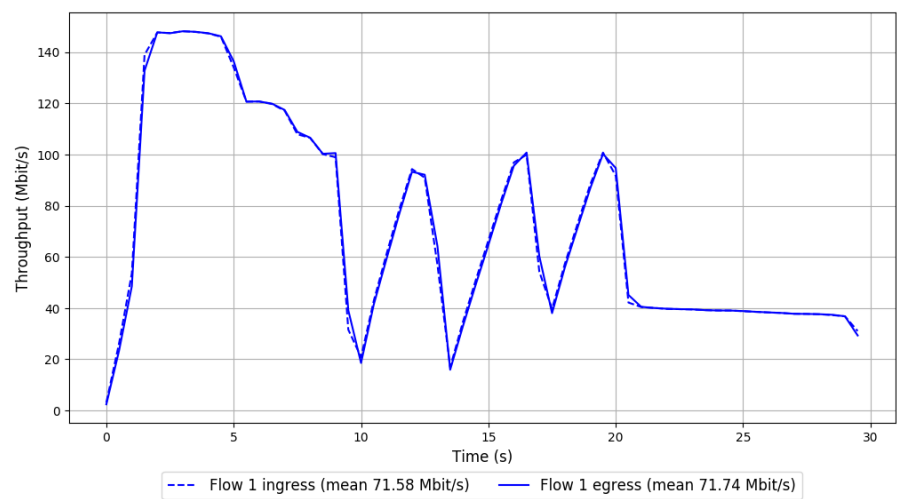
-- Flow 1:

Average throughput: 71.74 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.12%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-16 06:28:24

End at: 2018-02-16 06:28:54

Below is generated by plot.py at 2018-02-16 11:39:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 53.047 ms

Loss rate: 0.08%

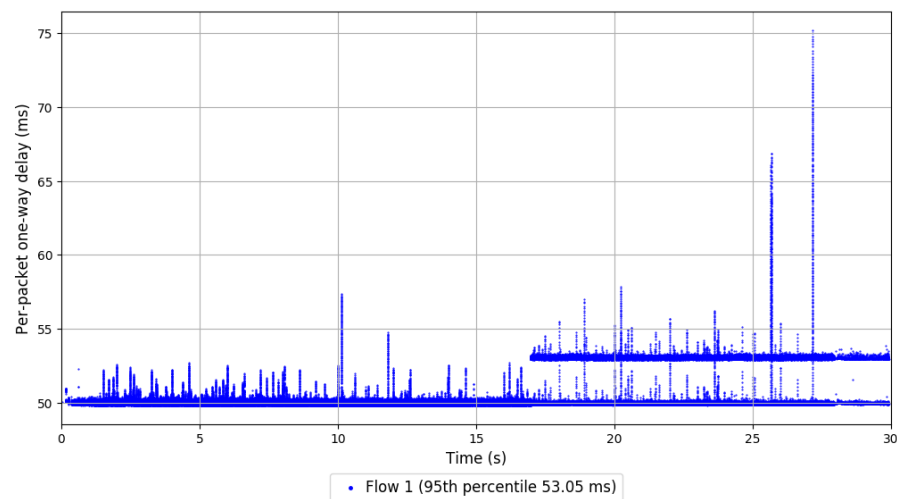
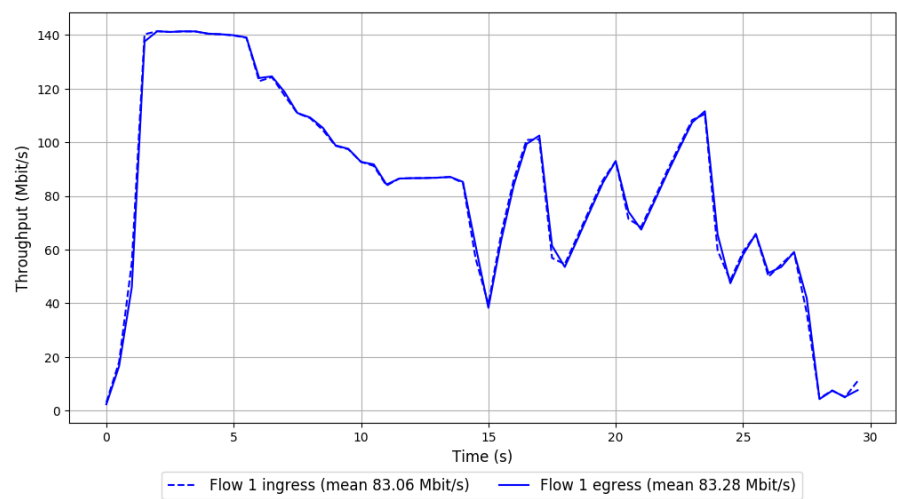
-- Flow 1:

Average throughput: 83.28 Mbit/s

95th percentile per-packet one-way delay: 53.047 ms

Loss rate: 0.08%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-16 06:42:51

End at: 2018-02-16 06:43:21

Below is generated by plot.py at 2018-02-16 11:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 294.72 Mbit/s

95th percentile per-packet one-way delay: 252.173 ms

Loss rate: 35.75%

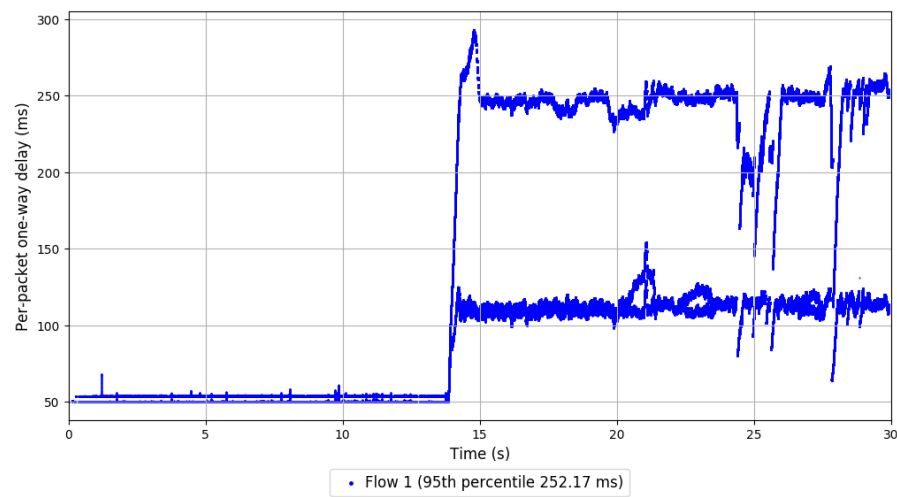
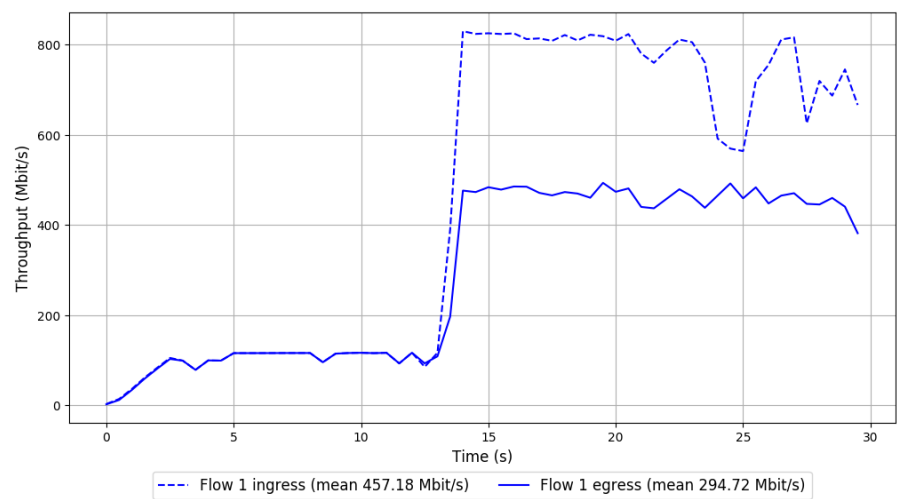
-- Flow 1:

Average throughput: 294.72 Mbit/s

95th percentile per-packet one-way delay: 252.173 ms

Loss rate: 35.75%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-16 06:57:40

End at: 2018-02-16 06:58:10

Below is generated by plot.py at 2018-02-16 11:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.13%

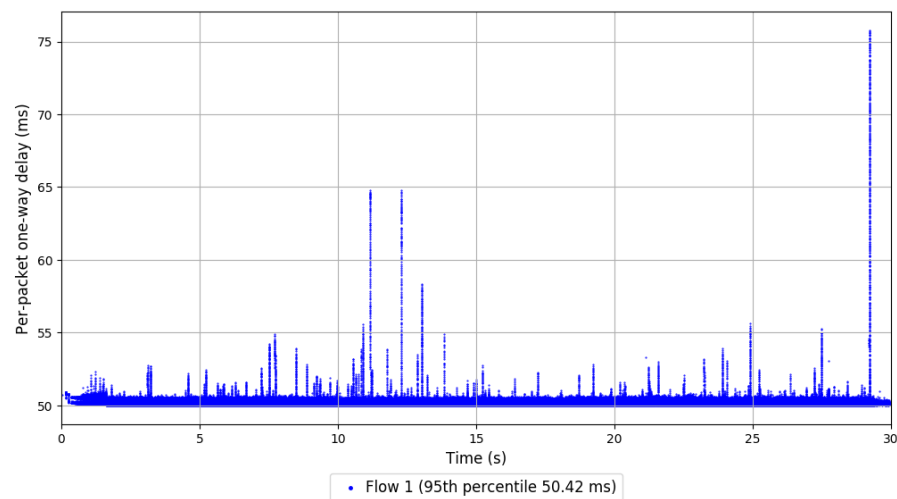
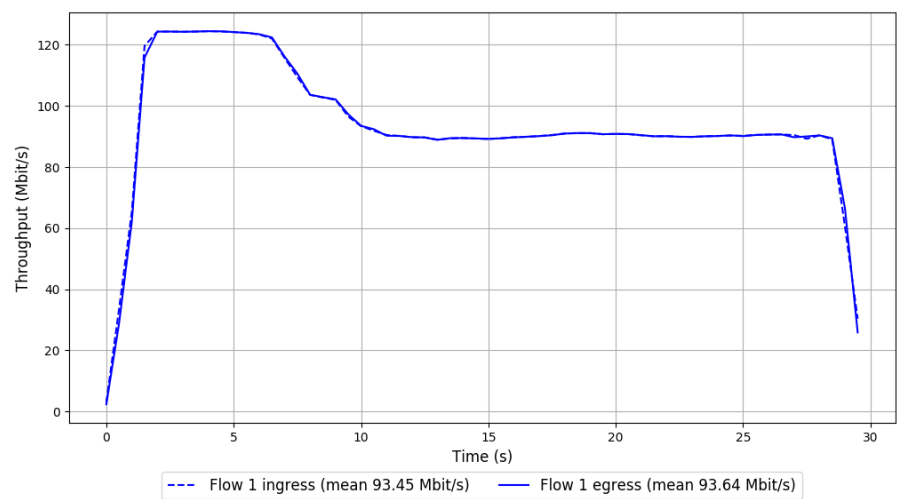
-- Flow 1:

Average throughput: 93.64 Mbit/s

95th percentile per-packet one-way delay: 50.420 ms

Loss rate: 0.13%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-16 07:12:20

End at: 2018-02-16 07:12:50

Below is generated by plot.py at 2018-02-16 11:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.79 Mbit/s

95th percentile per-packet one-way delay: 50.313 ms

Loss rate: 0.32%

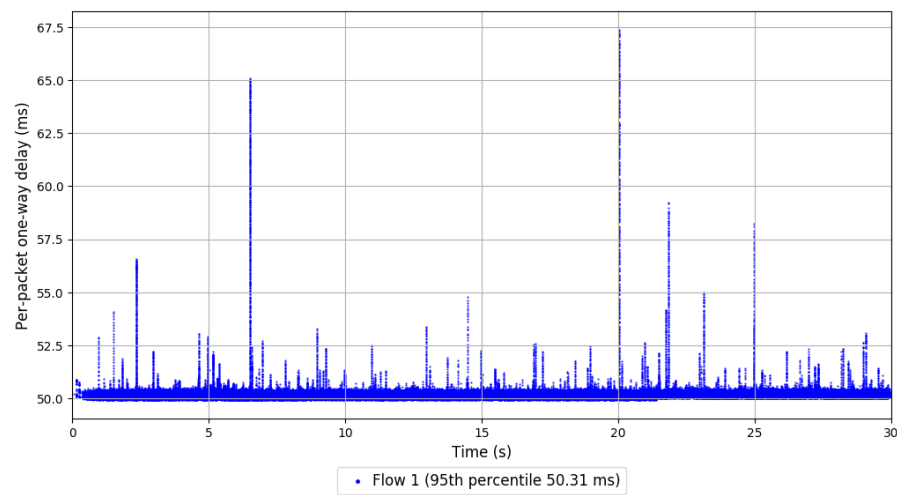
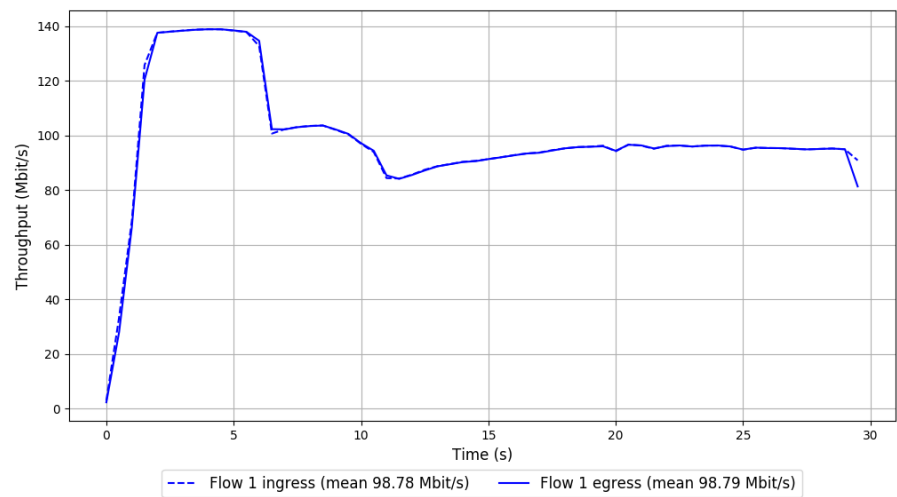
-- Flow 1:

Average throughput: 98.79 Mbit/s

95th percentile per-packet one-way delay: 50.313 ms

Loss rate: 0.32%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-16 07:27:14

End at: 2018-02-16 07:27:44

Below is generated by plot.py at 2018-02-16 11:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 50.312 ms

Loss rate: 0.26%

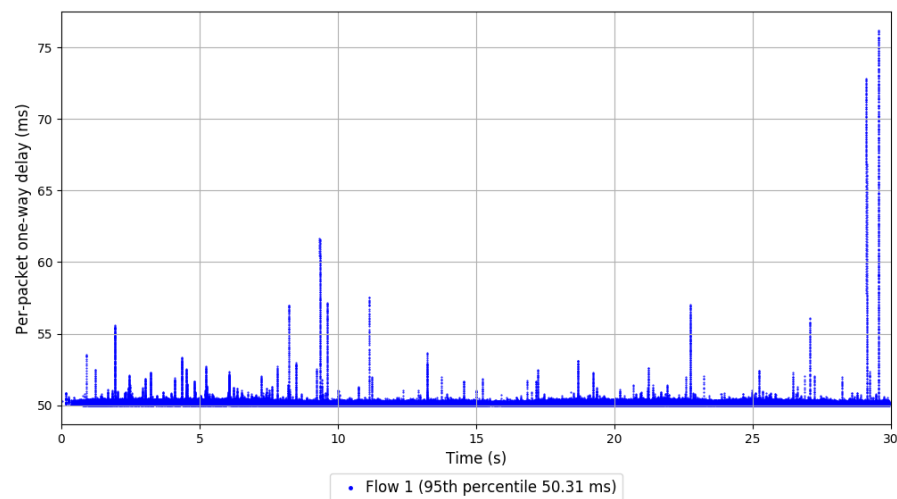
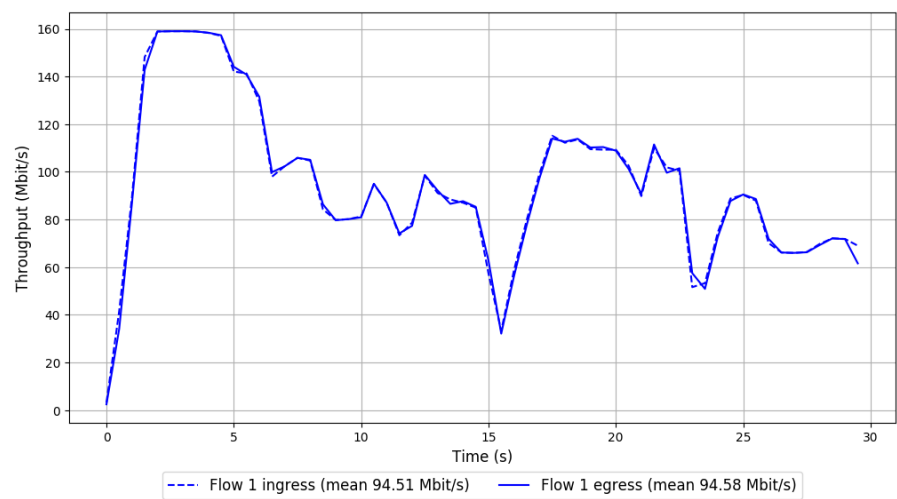
-- Flow 1:

Average throughput: 94.58 Mbit/s

95th percentile per-packet one-way delay: 50.312 ms

Loss rate: 0.26%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-16 07:41:49

End at: 2018-02-16 07:42:19

Below is generated by plot.py at 2018-02-16 11:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.35 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.42%

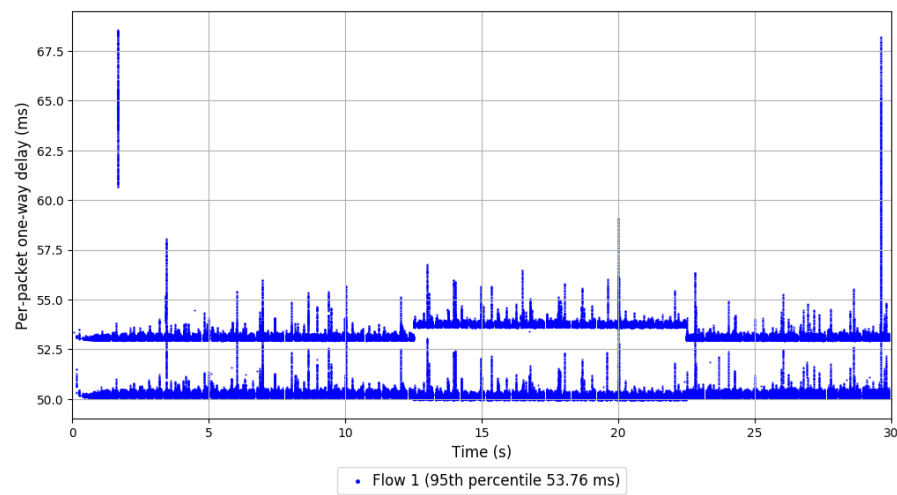
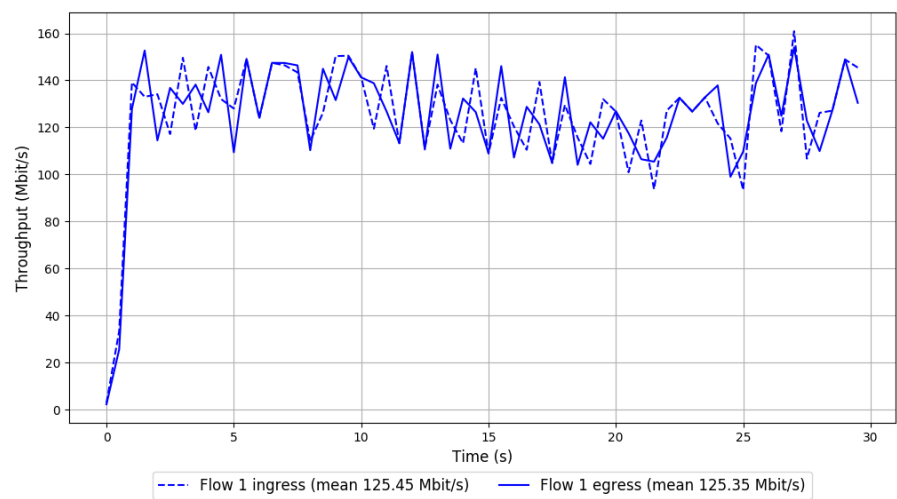
-- Flow 1:

Average throughput: 125.35 Mbit/s

95th percentile per-packet one-way delay: 53.755 ms

Loss rate: 0.42%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-16 07:56:19

End at: 2018-02-16 07:56:49

Below is generated by plot.py at 2018-02-16 11:47:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.96 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.37%

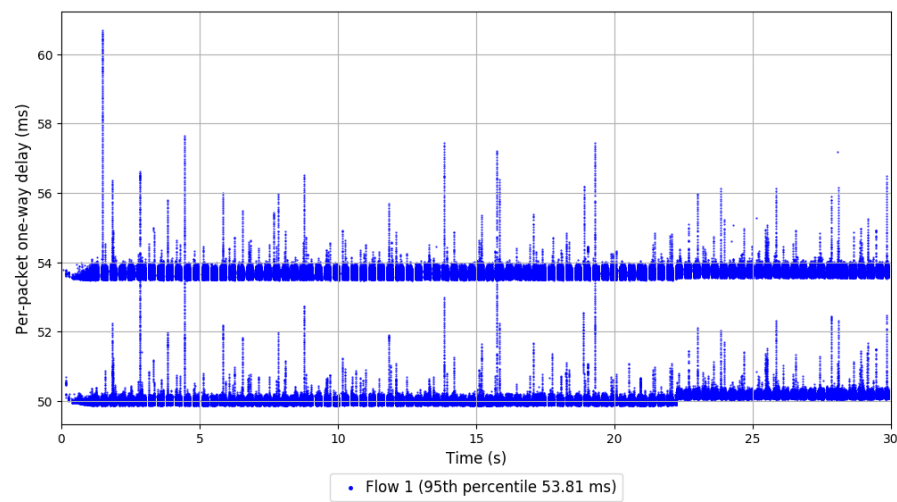
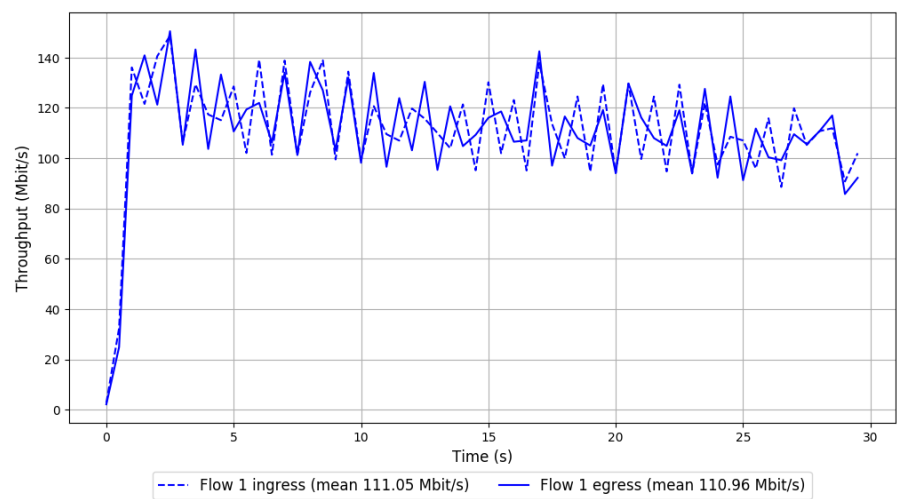
-- Flow 1:

Average throughput: 110.96 Mbit/s

95th percentile per-packet one-way delay: 53.809 ms

Loss rate: 0.37%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-16 08:10:35

End at: 2018-02-16 08:11:05

Below is generated by plot.py at 2018-02-16 11:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 303.37 Mbit/s

95th percentile per-packet one-way delay: 263.565 ms

Loss rate: 31.19%

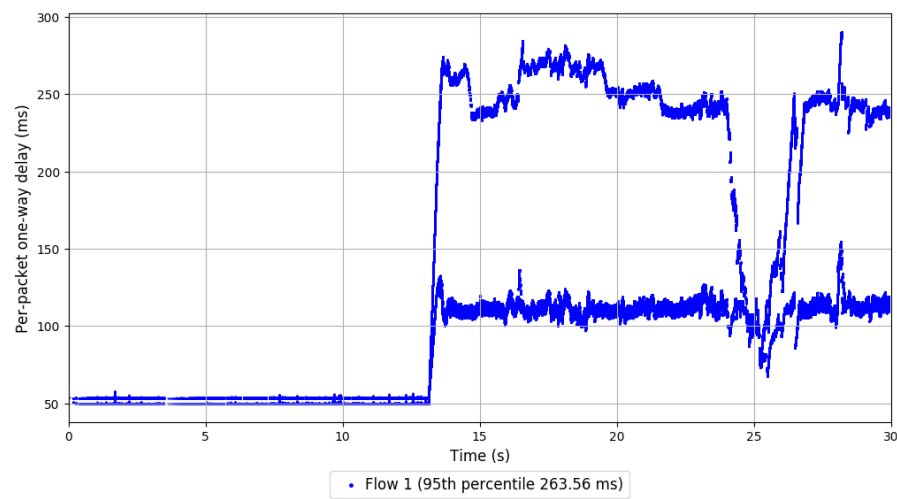
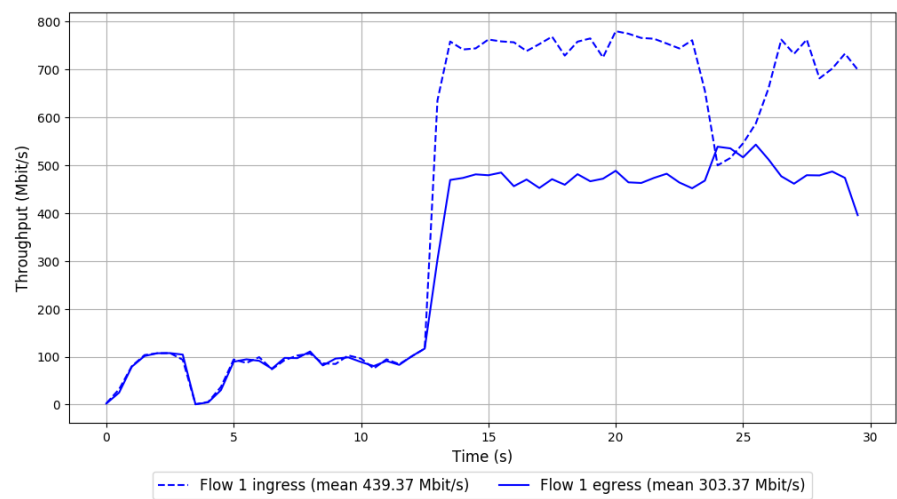
-- Flow 1:

Average throughput: 303.37 Mbit/s

95th percentile per-packet one-way delay: 263.565 ms

Loss rate: 31.19%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-16 08:25:26

End at: 2018-02-16 08:25:56

Below is generated by plot.py at 2018-02-16 11:49:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.29 Mbit/s

95th percentile per-packet one-way delay: 50.493 ms

Loss rate: 0.15%

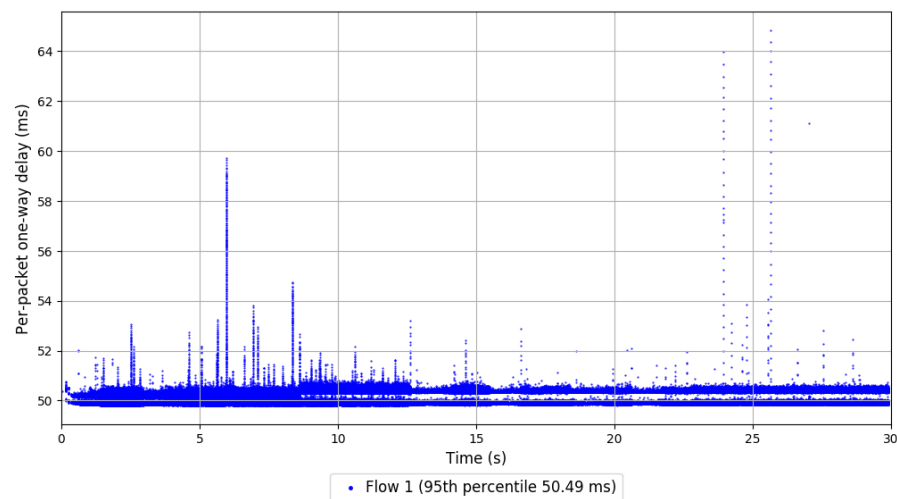
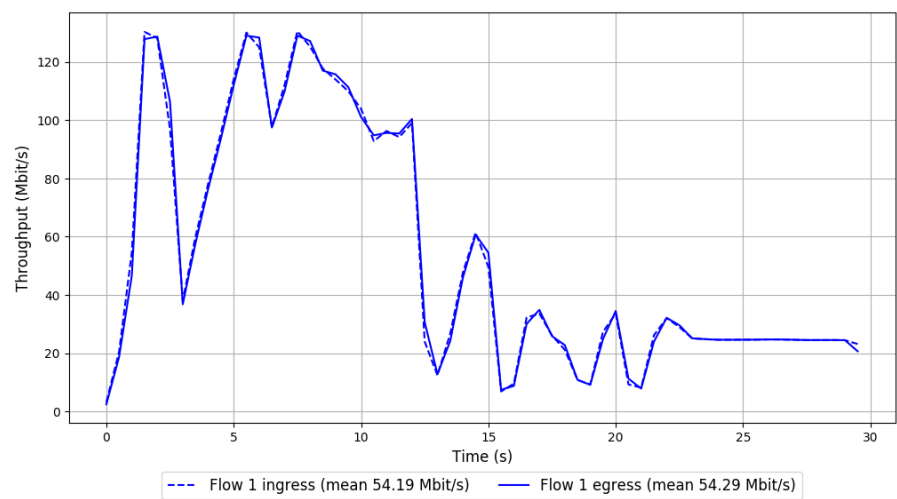
-- Flow 1:

Average throughput: 54.29 Mbit/s

95th percentile per-packet one-way delay: 50.493 ms

Loss rate: 0.15%

Run 10: Report of Copa — Data Link

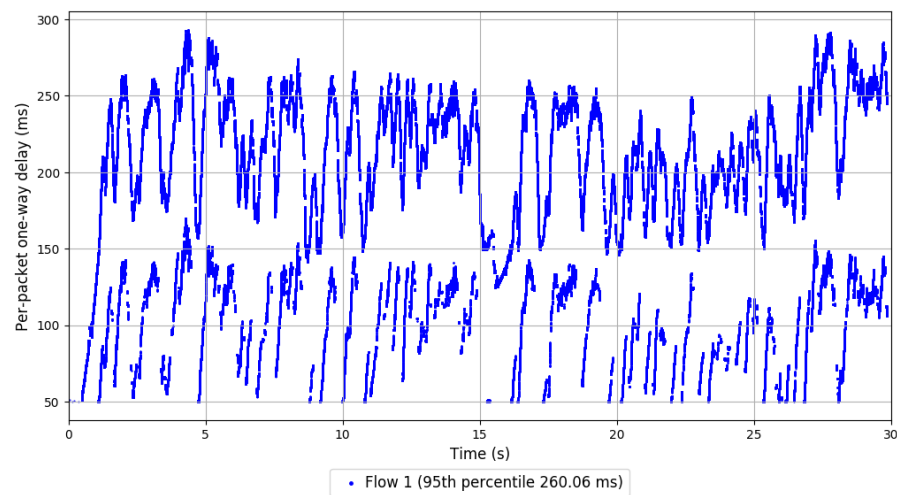
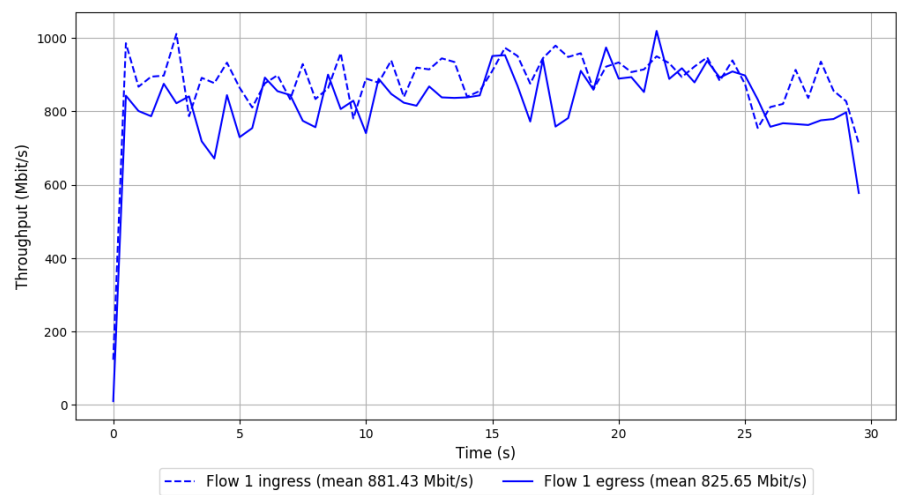


```
Run 1: Statistics of FillP

Start at: 2018-02-16 06:01:15
End at: 2018-02-16 06:01:45

# Below is generated by plot.py at 2018-02-16 11:55:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 825.65 Mbit/s
95th percentile per-packet one-way delay: 260.065 ms
Loss rate: 6.63%
-- Flow 1:
Average throughput: 825.65 Mbit/s
95th percentile per-packet one-way delay: 260.065 ms
Loss rate: 6.63%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-16 06:15:57

End at: 2018-02-16 06:16:28

Below is generated by plot.py at 2018-02-16 11:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 863.91 Mbit/s

95th percentile per-packet one-way delay: 283.985 ms

Loss rate: 4.51%

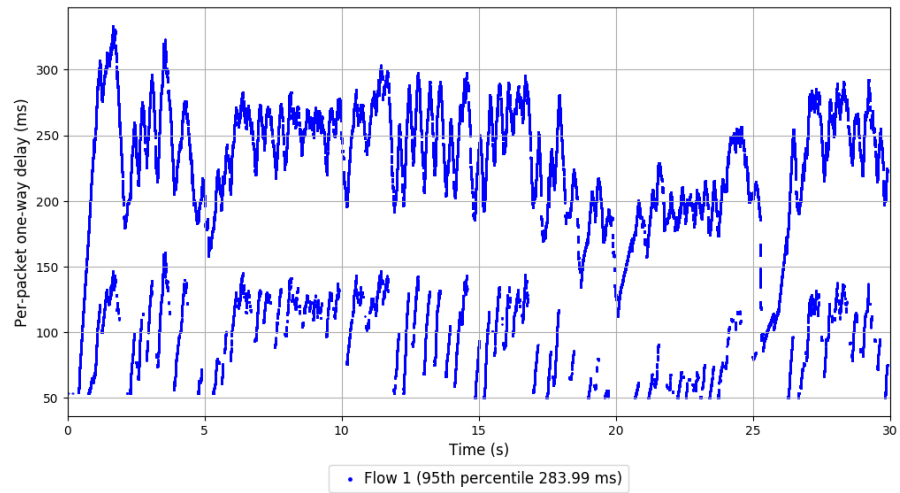
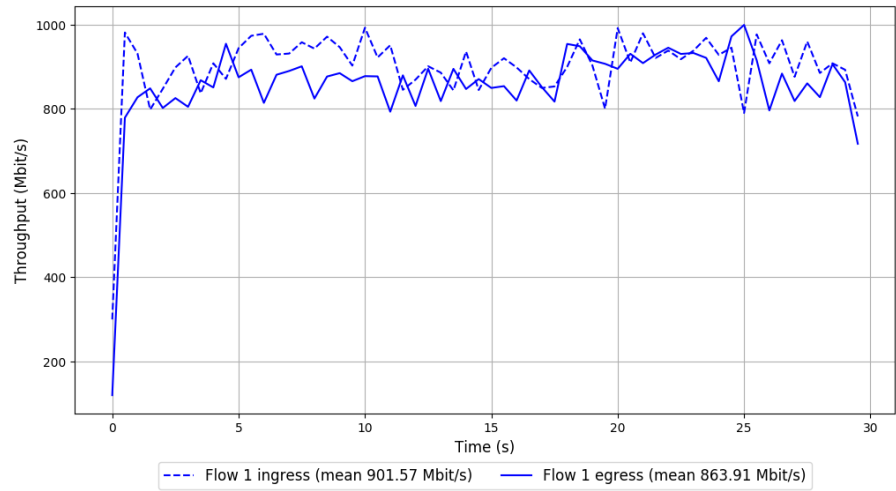
-- Flow 1:

Average throughput: 863.91 Mbit/s

95th percentile per-packet one-way delay: 283.985 ms

Loss rate: 4.51%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-16 06:30:41

End at: 2018-02-16 06:31:11

Below is generated by plot.py at 2018-02-16 11:56:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 823.93 Mbit/s

95th percentile per-packet one-way delay: 294.791 ms

Loss rate: 8.95%

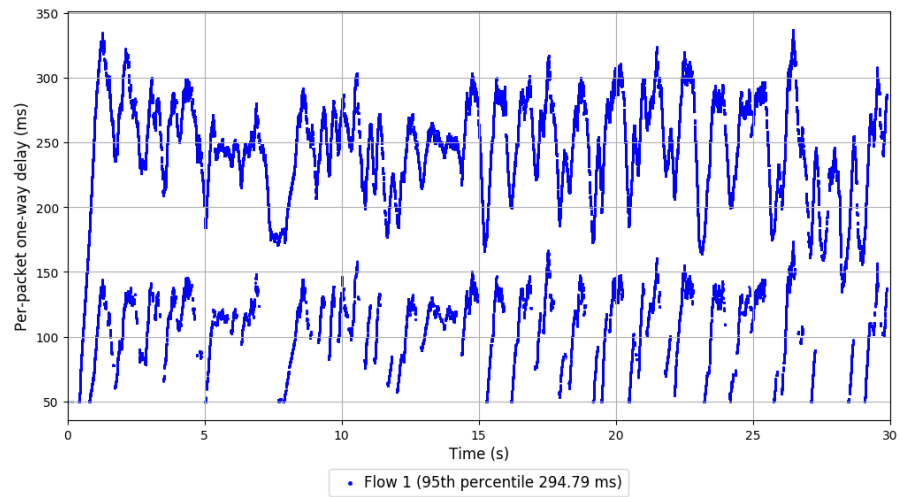
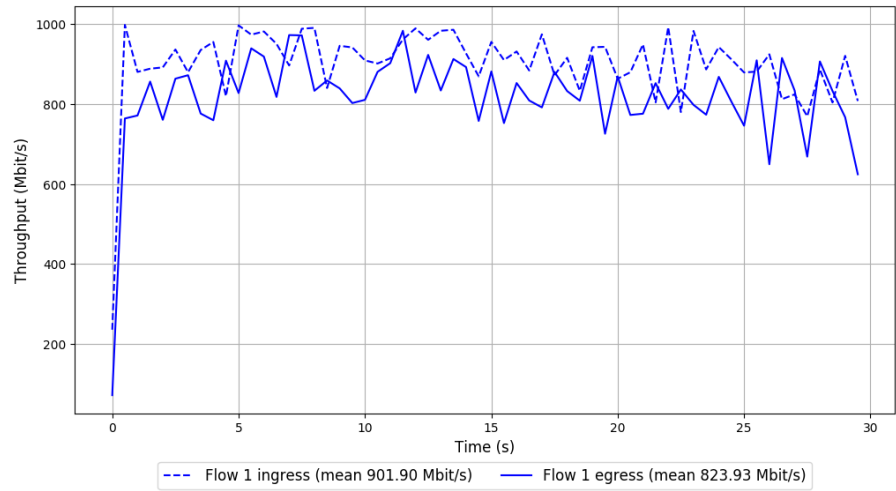
-- Flow 1:

Average throughput: 823.93 Mbit/s

95th percentile per-packet one-way delay: 294.791 ms

Loss rate: 8.95%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-16 06:45:29

End at: 2018-02-16 06:45:59

Below is generated by plot.py at 2018-02-16 11:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 948.18 Mbit/s

95th percentile per-packet one-way delay: 252.544 ms

Loss rate: 2.98%

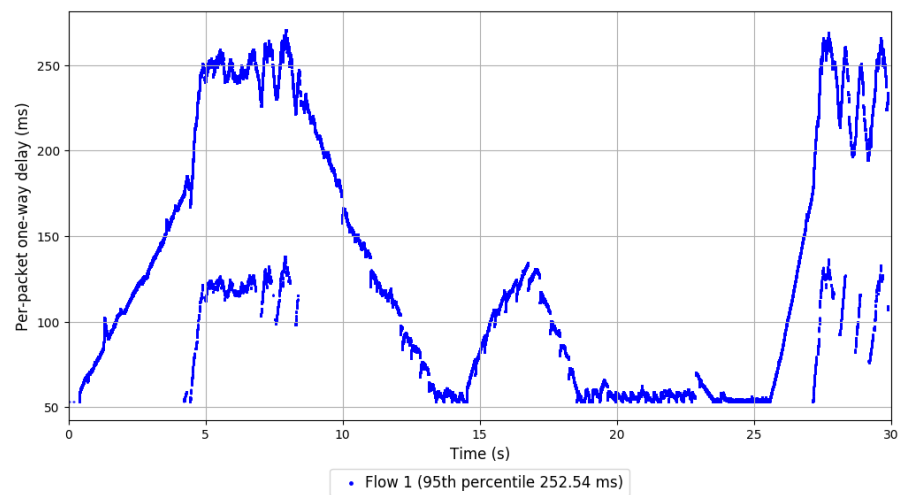
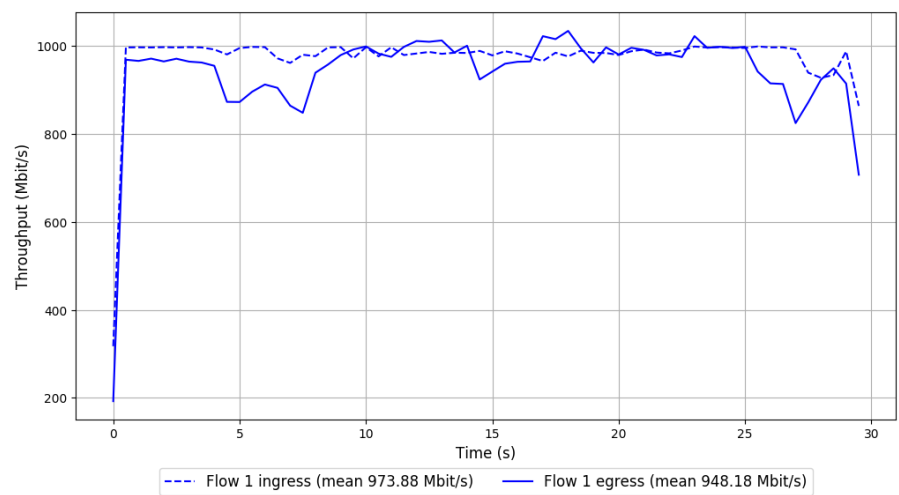
-- Flow 1:

Average throughput: 948.18 Mbit/s

95th percentile per-packet one-way delay: 252.544 ms

Loss rate: 2.98%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-16 07:00:00

End at: 2018-02-16 07:00:30

Below is generated by plot.py at 2018-02-16 11:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.56 Mbit/s

95th percentile per-packet one-way delay: 279.501 ms

Loss rate: 12.83%

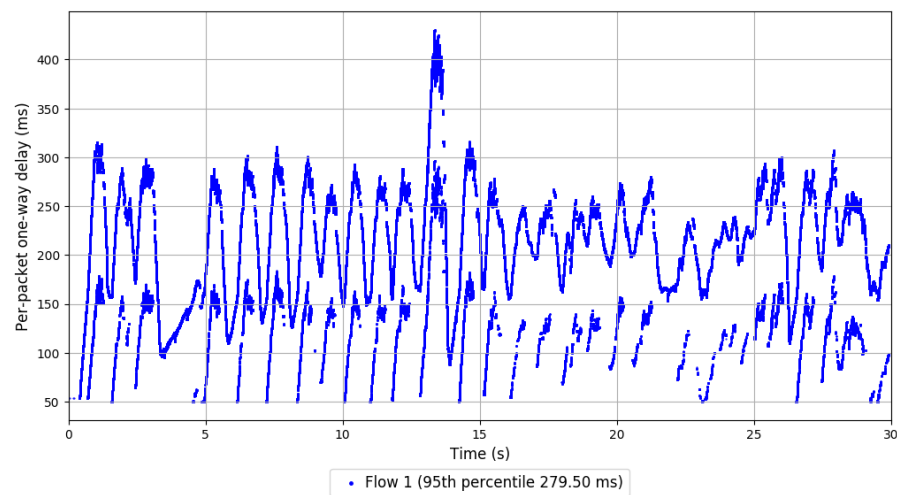
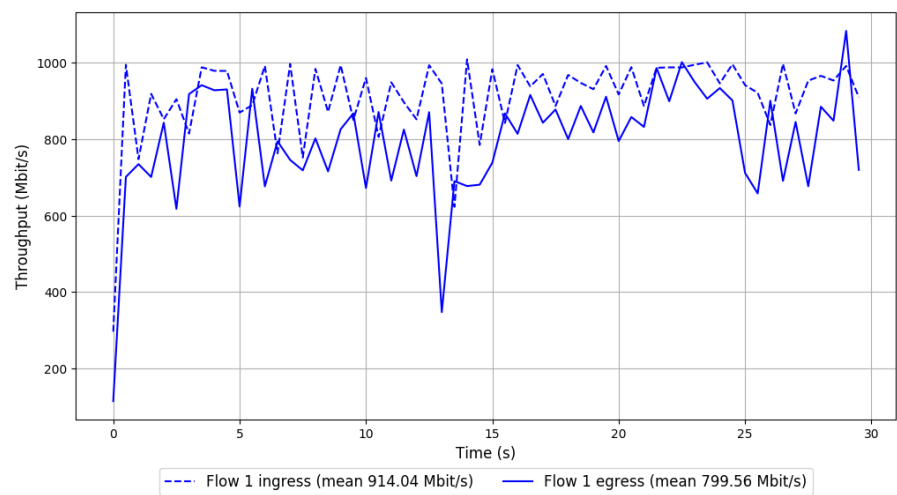
-- Flow 1:

Average throughput: 799.56 Mbit/s

95th percentile per-packet one-way delay: 279.501 ms

Loss rate: 12.83%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-16 07:14:42

End at: 2018-02-16 07:15:12

Below is generated by plot.py at 2018-02-16 11:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 868.26 Mbit/s

95th percentile per-packet one-way delay: 290.040 ms

Loss rate: 8.45%

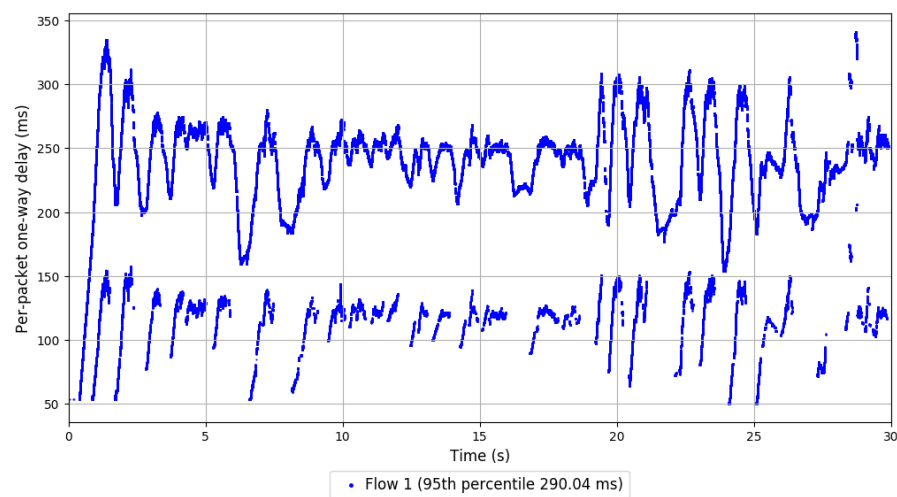
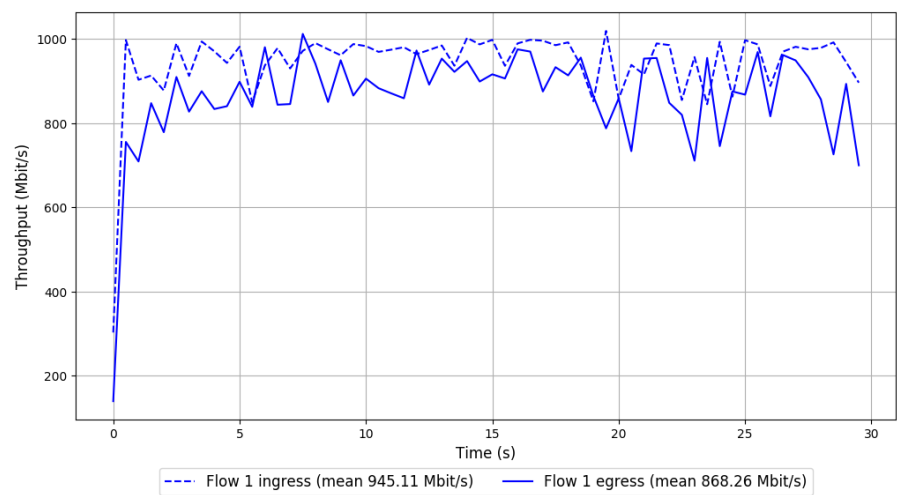
-- Flow 1:

Average throughput: 868.26 Mbit/s

95th percentile per-packet one-way delay: 290.040 ms

Loss rate: 8.45%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-16 07:29:35

End at: 2018-02-16 07:30:05

Below is generated by plot.py at 2018-02-16 12:04:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 867.92 Mbit/s

95th percentile per-packet one-way delay: 269.918 ms

Loss rate: 7.95%

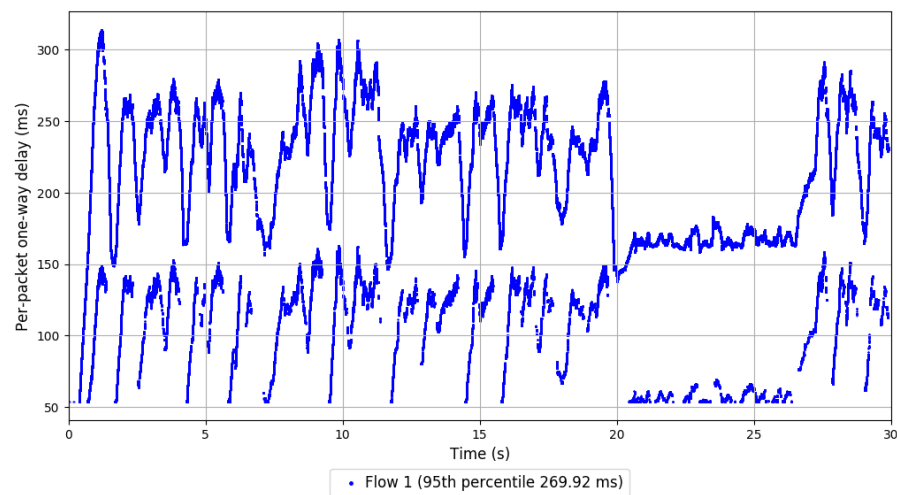
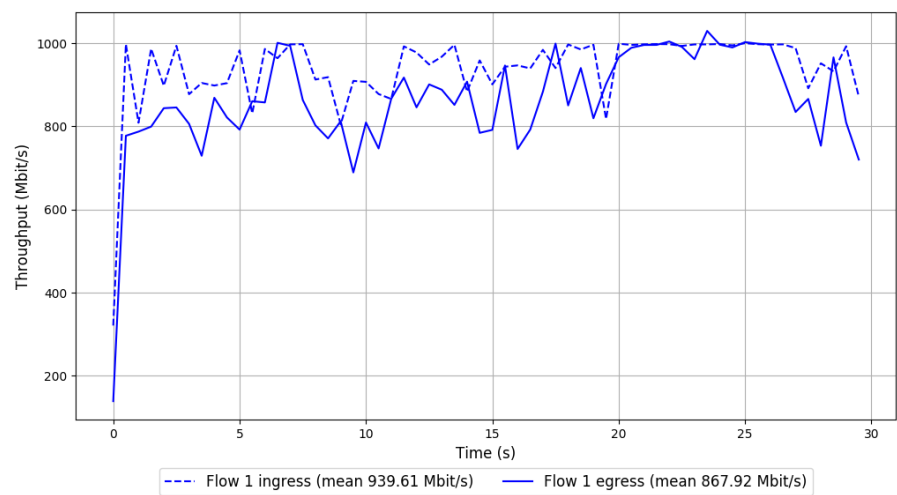
-- Flow 1:

Average throughput: 867.92 Mbit/s

95th percentile per-packet one-way delay: 269.918 ms

Loss rate: 7.95%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-16 07:44:09

End at: 2018-02-16 07:44:39

Below is generated by plot.py at 2018-02-16 12:06:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 835.26 Mbit/s

95th percentile per-packet one-way delay: 295.742 ms

Loss rate: 5.43%

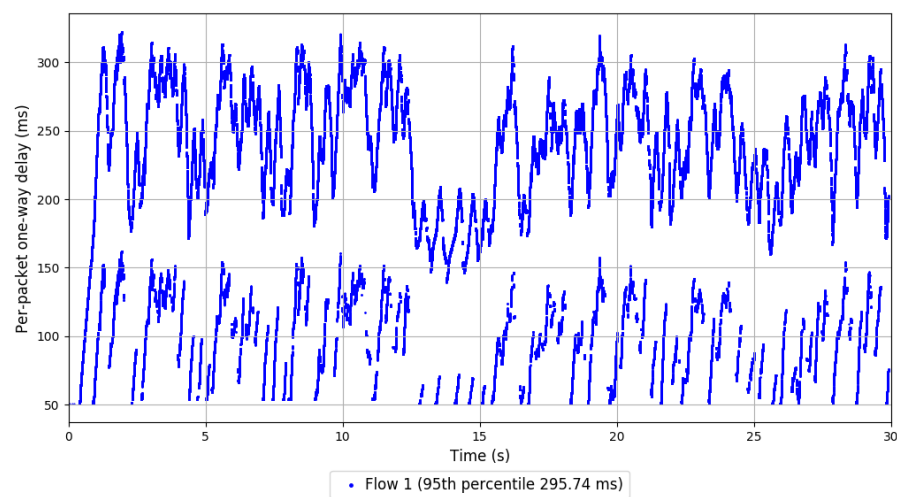
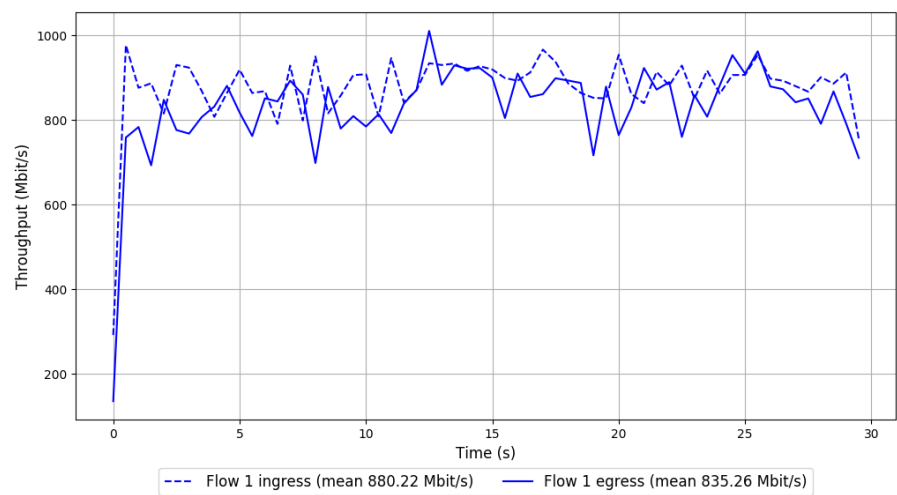
-- Flow 1:

Average throughput: 835.26 Mbit/s

95th percentile per-packet one-way delay: 295.742 ms

Loss rate: 5.43%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-16 07:58:38

End at: 2018-02-16 07:59:08

Below is generated by plot.py at 2018-02-16 12:13:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.33 Mbit/s

95th percentile per-packet one-way delay: 244.126 ms

Loss rate: 4.47%

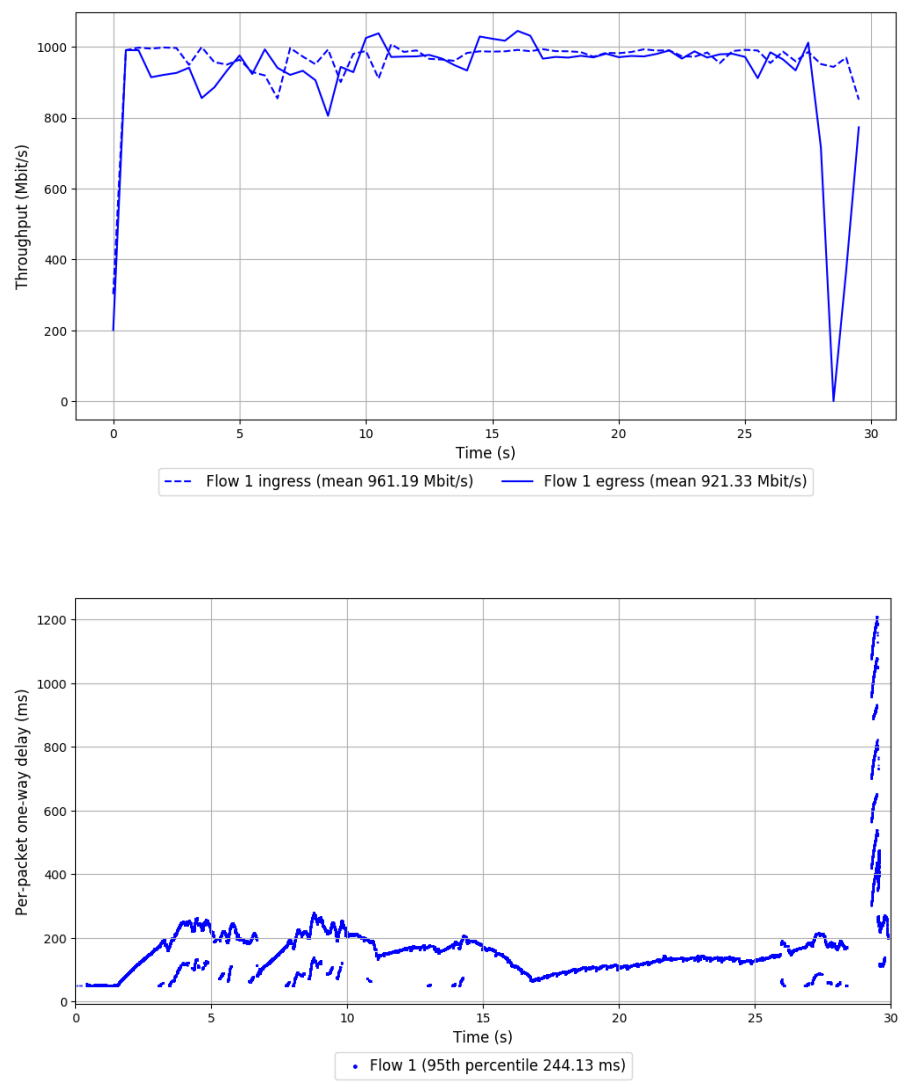
-- Flow 1:

Average throughput: 921.33 Mbit/s

95th percentile per-packet one-way delay: 244.126 ms

Loss rate: 4.47%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-16 08:13:11

End at: 2018-02-16 08:13:41

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 884.53 Mbit/s

95th percentile per-packet one-way delay: 263.036 ms

Loss rate: 5.64%

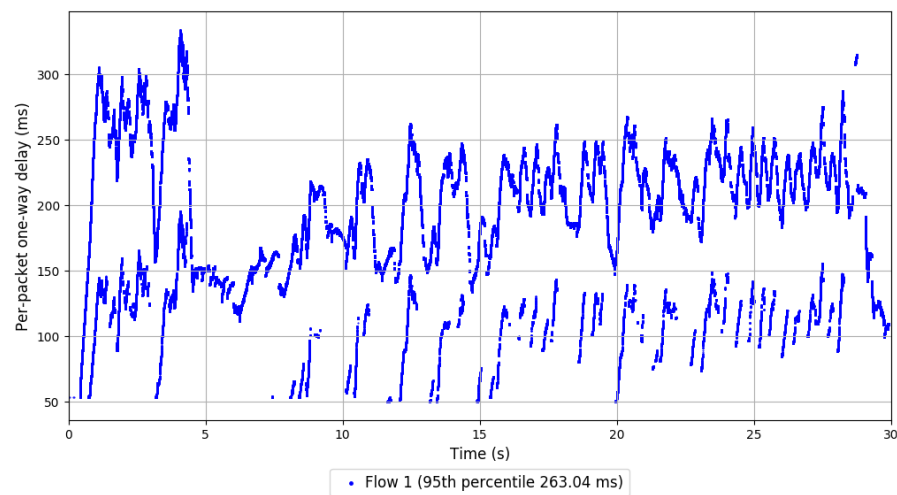
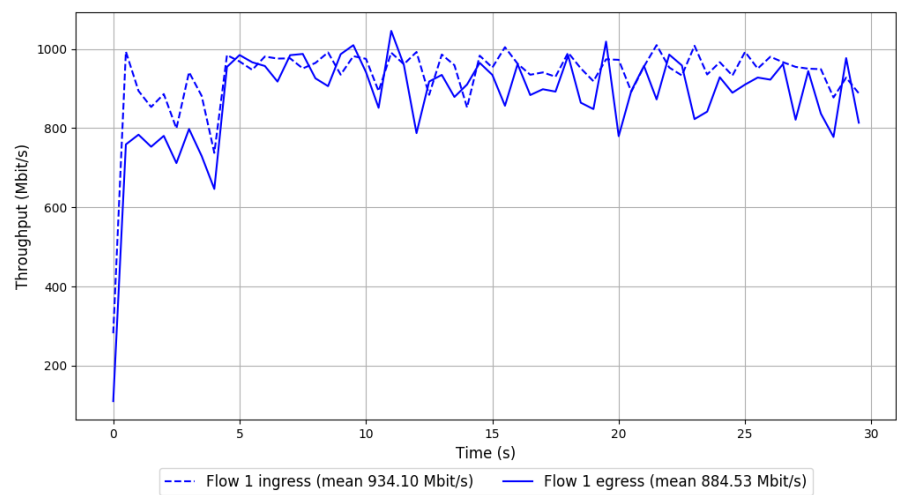
-- Flow 1:

Average throughput: 884.53 Mbit/s

95th percentile per-packet one-way delay: 263.036 ms

Loss rate: 5.64%

Run 10: Report of FillP — Data Link

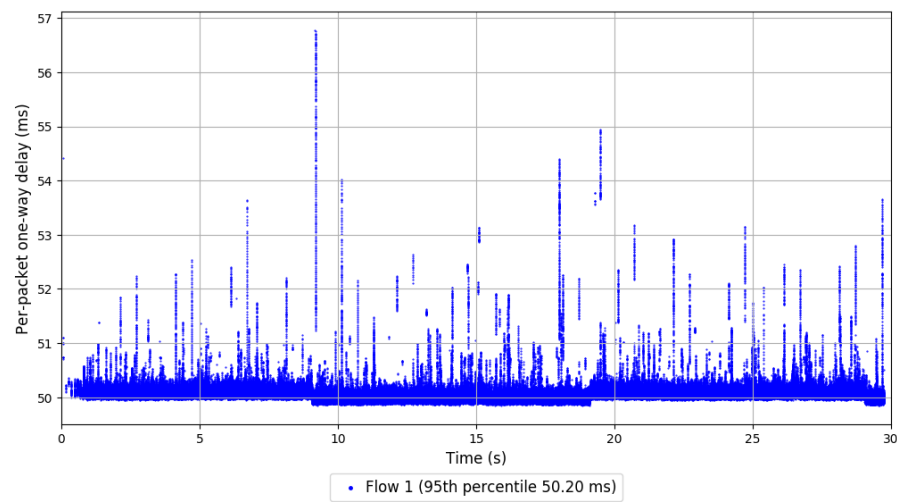
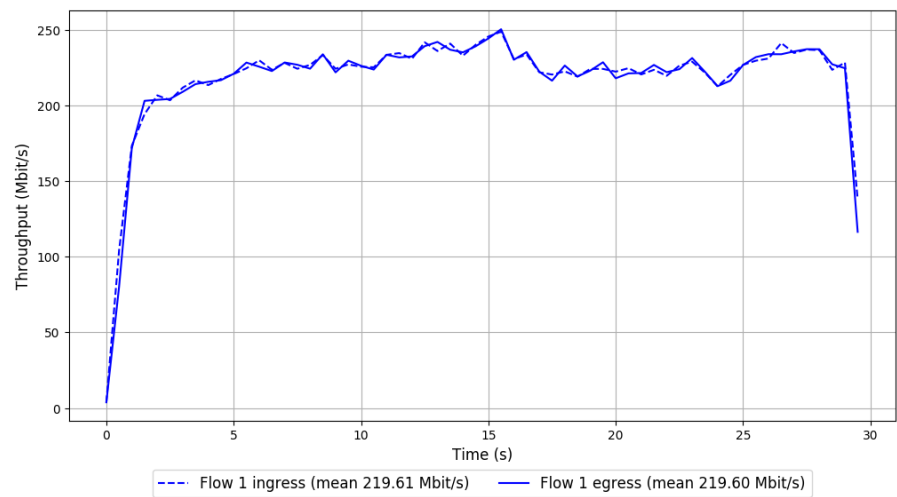


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-16 06:05:12
End at: 2018-02-16 06:05:42

# Below is generated by plot.py at 2018-02-16 12:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 219.60 Mbit/s
95th percentile per-packet one-way delay: 50.205 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 219.60 Mbit/s
95th percentile per-packet one-way delay: 50.205 ms
Loss rate: 0.35%
```

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

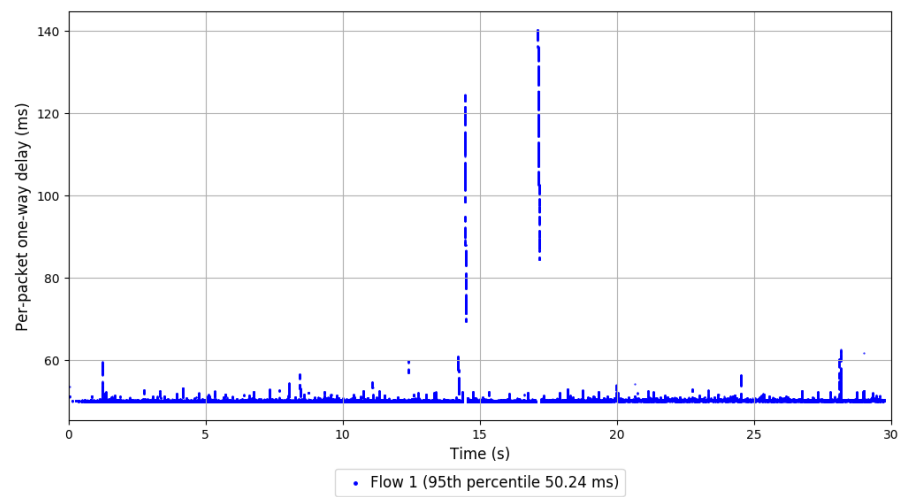
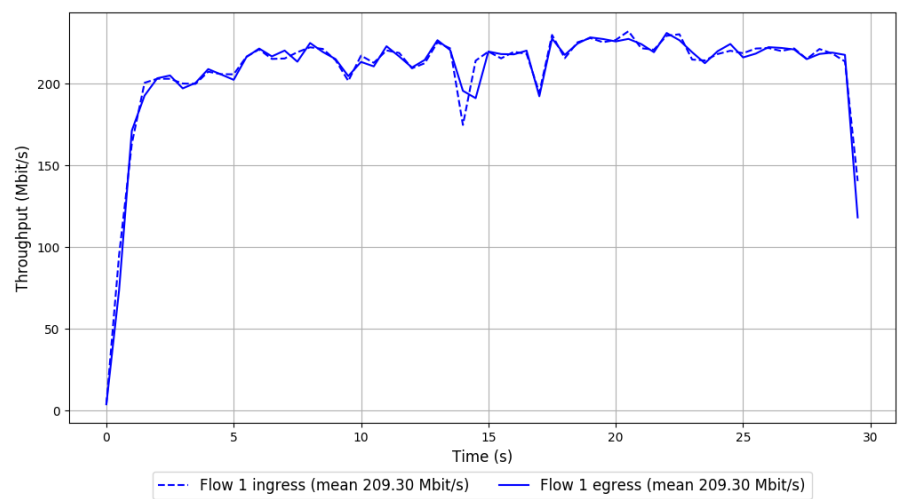


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-16 06:19:52
End at: 2018-02-16 06:20:22

# Below is generated by plot.py at 2018-02-16 12:13:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 209.30 Mbit/s
95th percentile per-packet one-way delay: 50.240 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 209.30 Mbit/s
95th percentile per-packet one-way delay: 50.240 ms
Loss rate: 0.35%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-16 06:34:30

End at: 2018-02-16 06:35:00

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.27 Mbit/s

95th percentile per-packet one-way delay: 50.145 ms

Loss rate: 0.36%

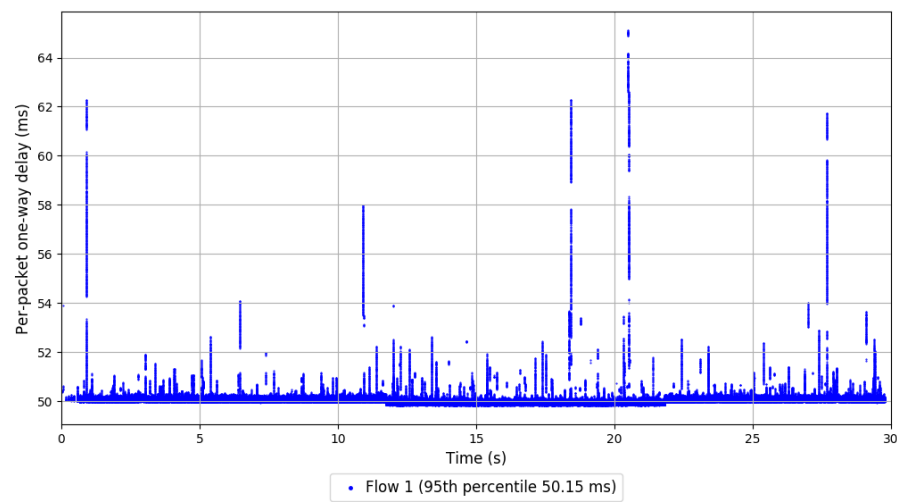
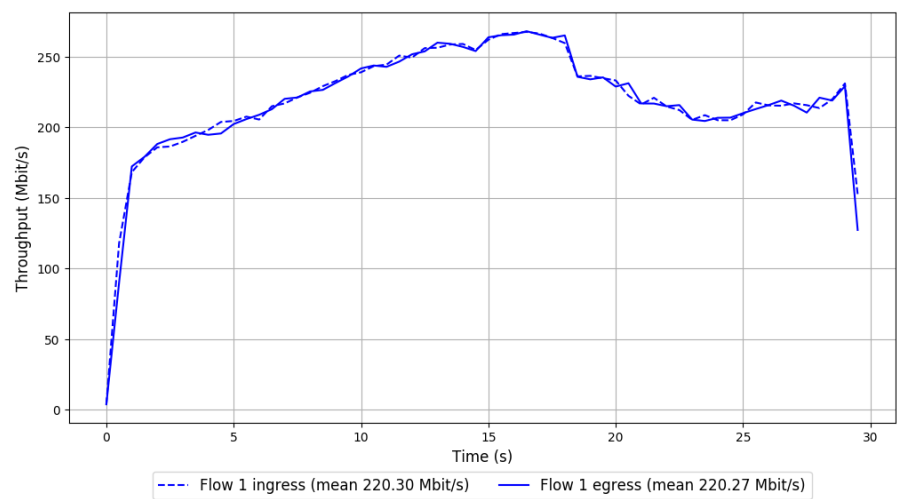
-- Flow 1:

Average throughput: 220.27 Mbit/s

95th percentile per-packet one-way delay: 50.145 ms

Loss rate: 0.36%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-16 06:49:25

End at: 2018-02-16 06:49:55

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.96 Mbit/s

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

Loss rate: 0.35%

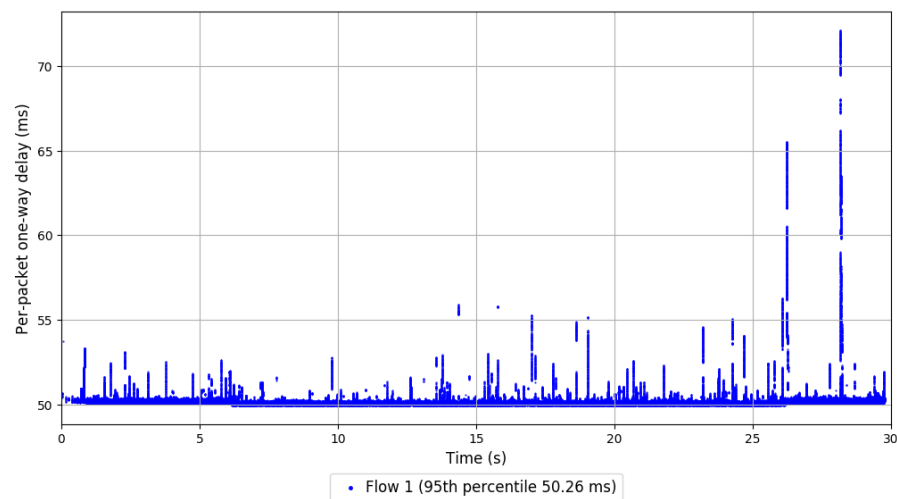
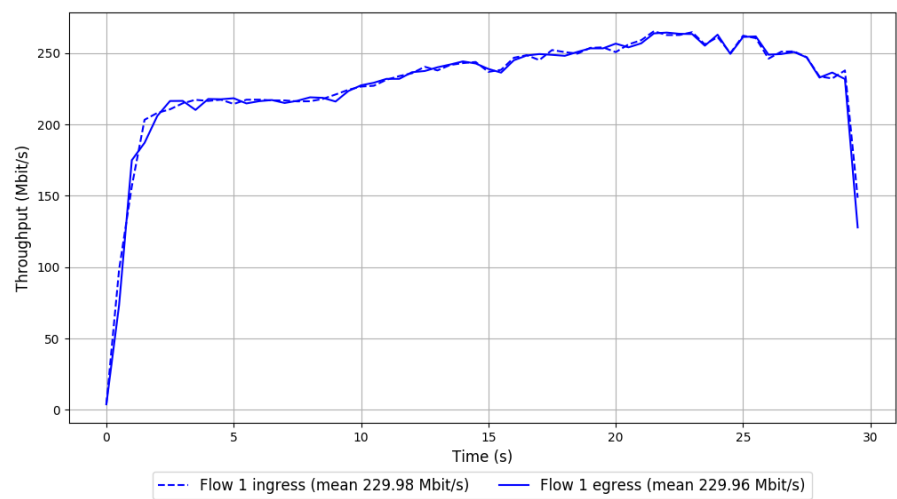
-- Flow 1:

Average throughput: 229.96 Mbit/s

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

Loss rate: 0.35%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-16 07:03:46

End at: 2018-02-16 07:04:16

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.14 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.32%

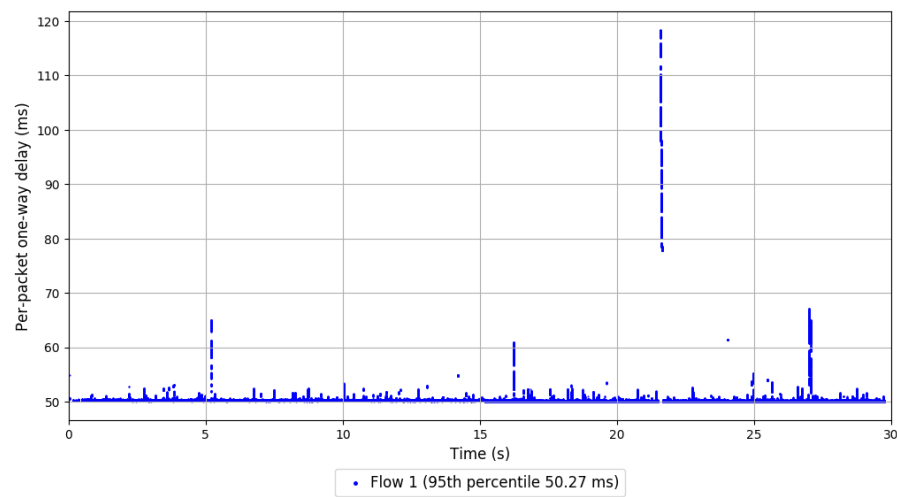
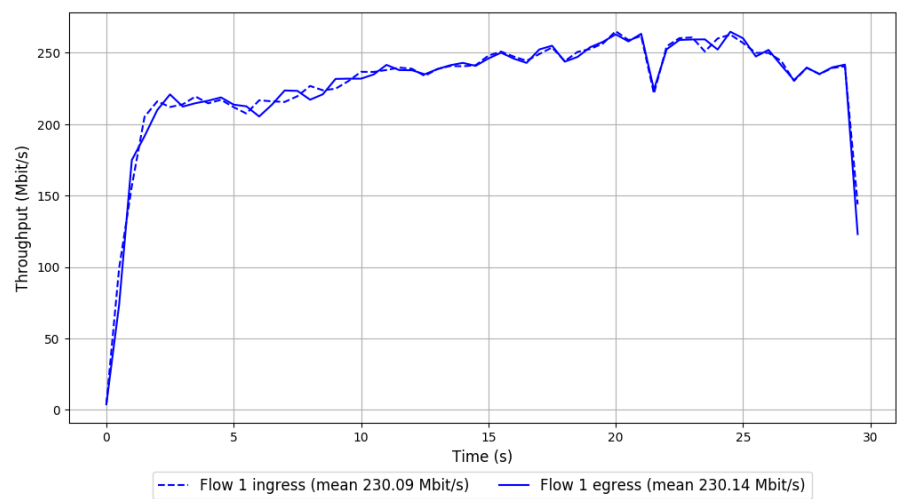
-- Flow 1:

Average throughput: 230.14 Mbit/s

95th percentile per-packet one-way delay: 50.270 ms

Loss rate: 0.32%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-16 07:18:39

End at: 2018-02-16 07:19:09

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.23 Mbit/s

95th percentile per-packet one-way delay: 50.392 ms

Loss rate: 0.34%

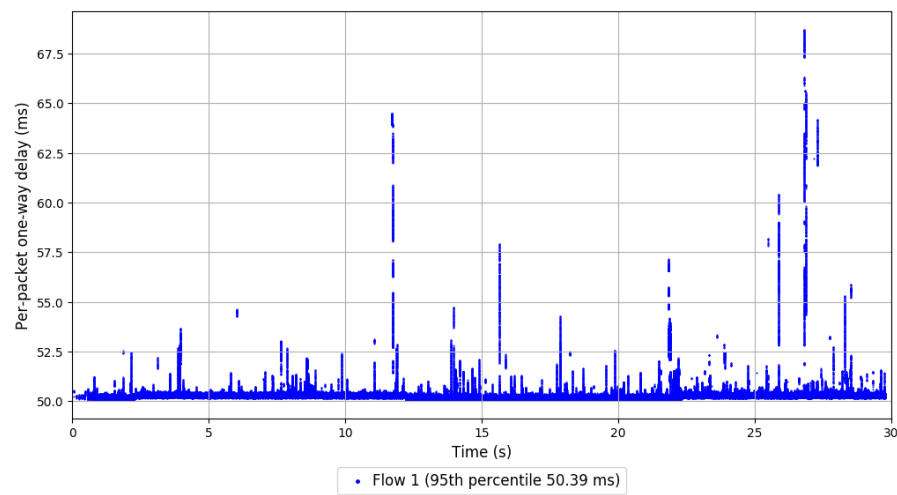
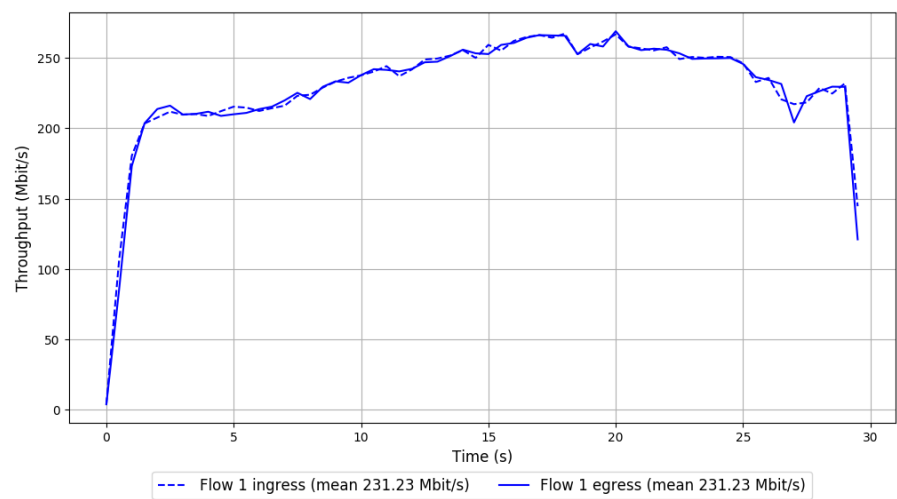
-- Flow 1:

Average throughput: 231.23 Mbit/s

95th percentile per-packet one-way delay: 50.392 ms

Loss rate: 0.34%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-16 07:33:35

End at: 2018-02-16 07:34:05

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.25 Mbit/s

95th percentile per-packet one-way delay: 50.226 ms

Loss rate: 0.36%

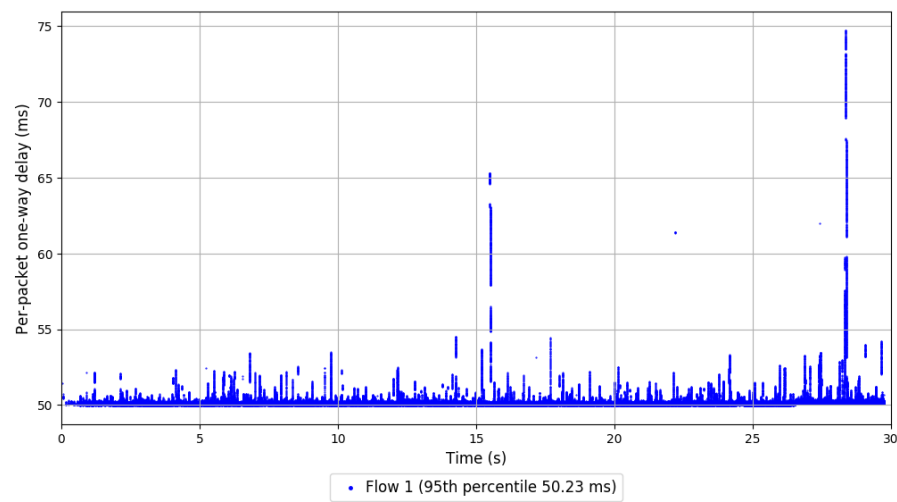
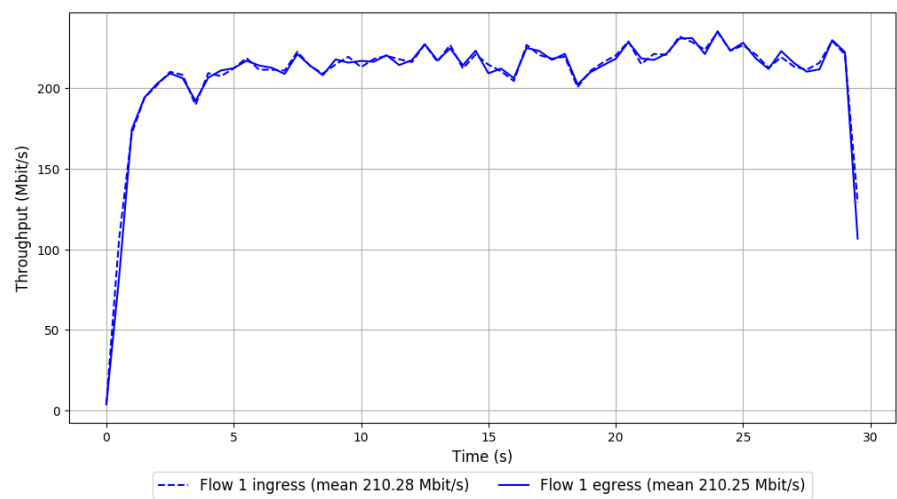
-- Flow 1:

Average throughput: 210.25 Mbit/s

95th percentile per-packet one-way delay: 50.226 ms

Loss rate: 0.36%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-16 07:48:03

End at: 2018-02-16 07:48:34

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 222.60 Mbit/s

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

Loss rate: 0.35%

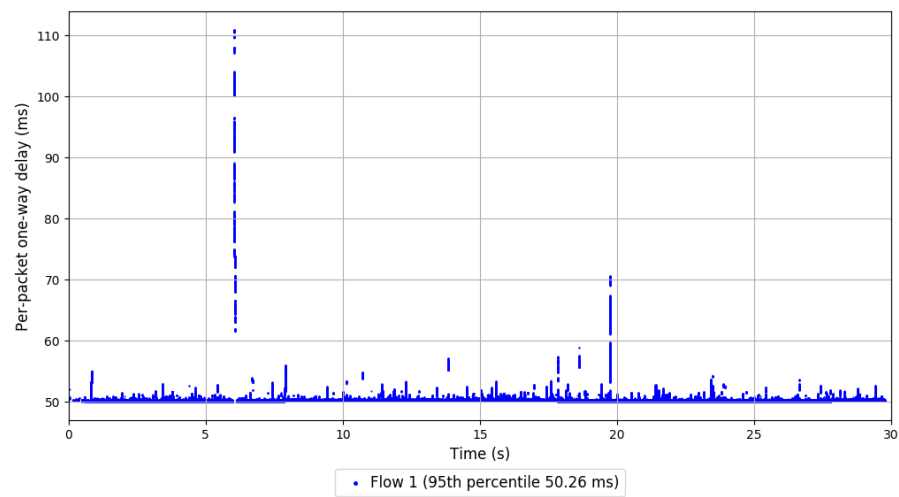
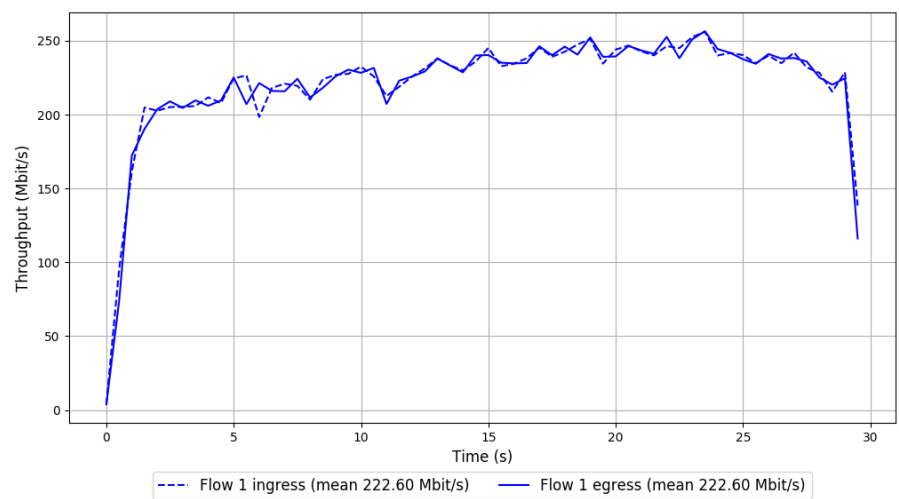
-- Flow 1:

Average throughput: 222.60 Mbit/s

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

Loss rate: 0.35%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-16 08:02:29

End at: 2018-02-16 08:02:59

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.57 Mbit/s

95th percentile per-packet one-way delay: 50.061 ms

Loss rate: 0.35%

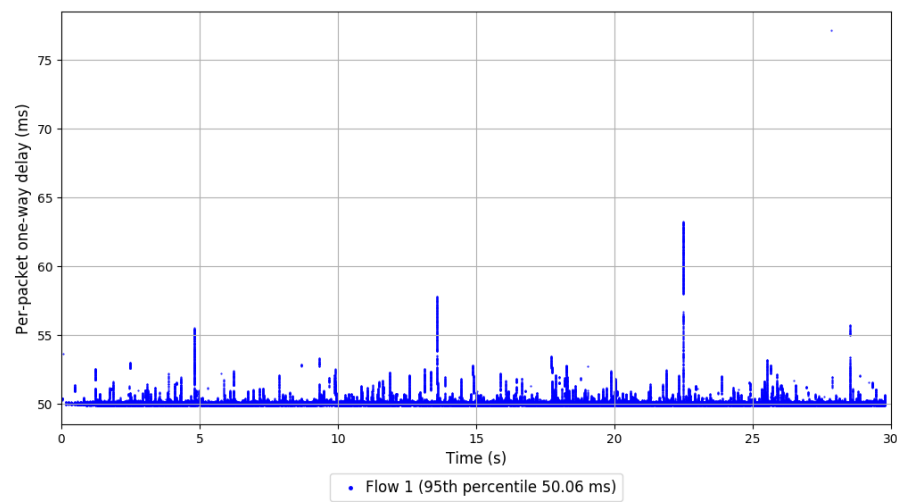
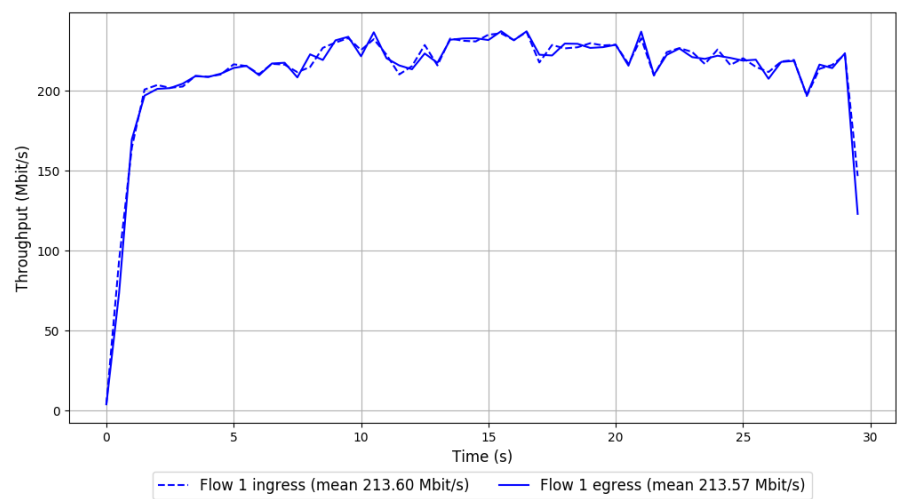
-- Flow 1:

Average throughput: 213.57 Mbit/s

95th percentile per-packet one-way delay: 50.061 ms

Loss rate: 0.35%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-16 08:16:59

End at: 2018-02-16 08:17:29

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.66 Mbit/s

95th percentile per-packet one-way delay: 50.051 ms

Loss rate: 0.36%

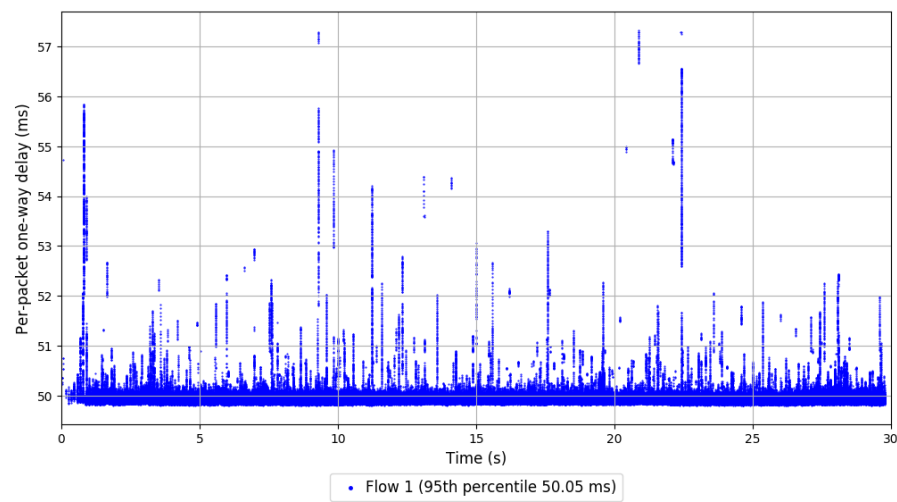
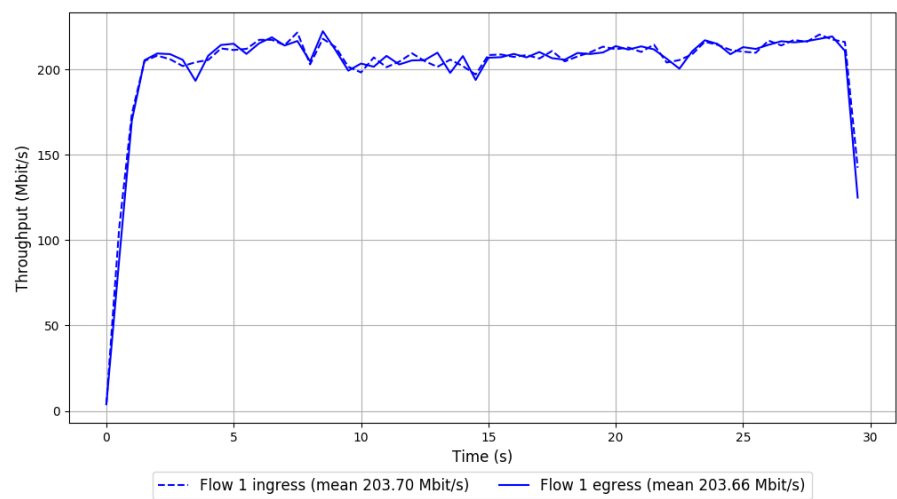
-- Flow 1:

Average throughput: 203.66 Mbit/s

95th percentile per-packet one-way delay: 50.051 ms

Loss rate: 0.36%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-02-16 06:06:50

End at: 2018-02-16 06:07:20

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.09 Mbit/s

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

Loss rate: 0.42%

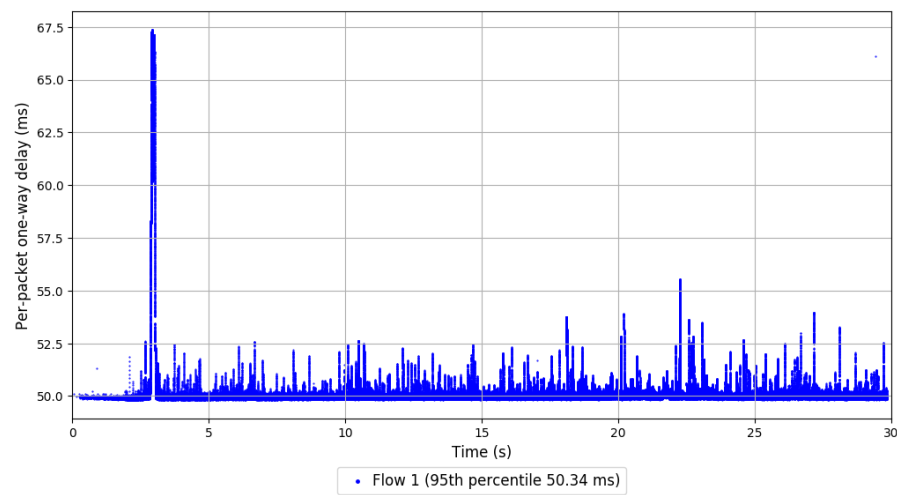
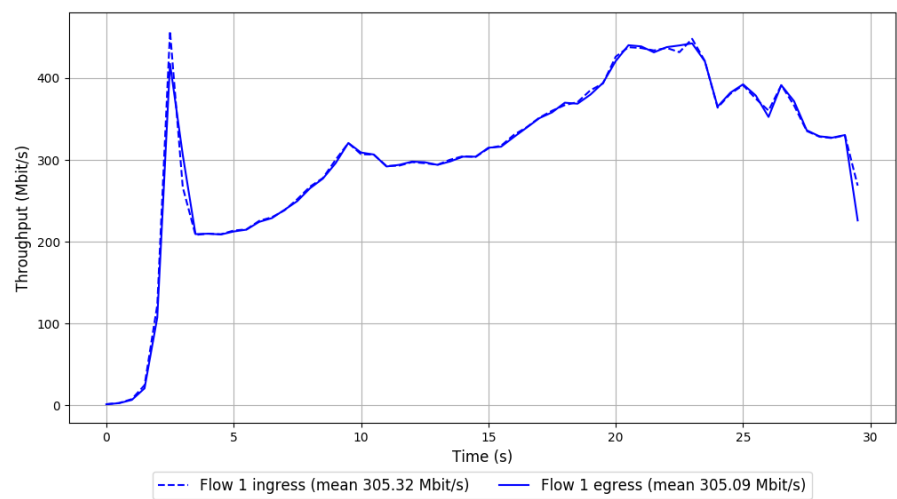
-- Flow 1:

Average throughput: 305.09 Mbit/s

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

Loss rate: 0.42%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-02-16 06:21:29

End at: 2018-02-16 06:21:59

Below is generated by plot.py at 2018-02-16 12:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.46 Mbit/s

95th percentile per-packet one-way delay: 53.495 ms

Loss rate: 0.30%

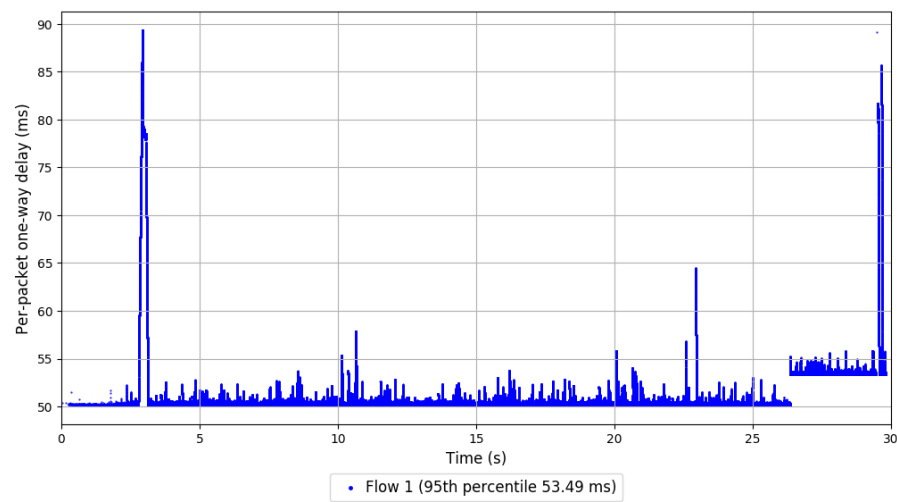
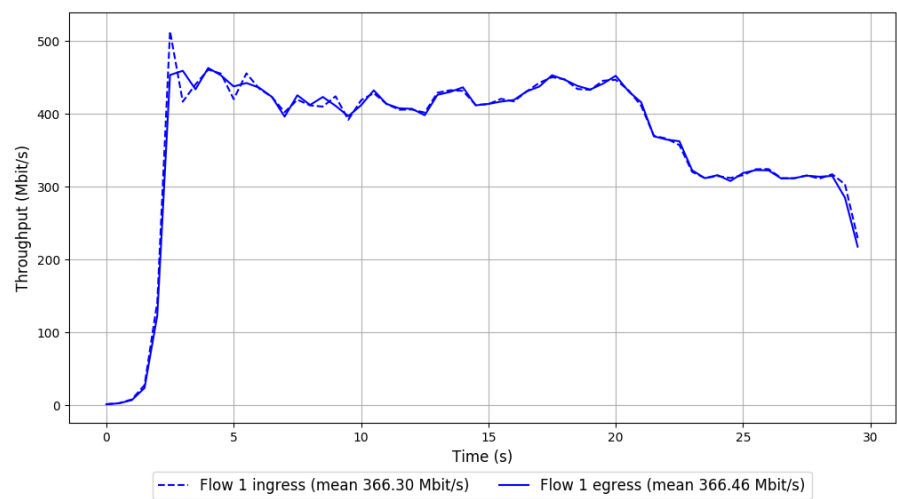
-- Flow 1:

Average throughput: 366.46 Mbit/s

95th percentile per-packet one-way delay: 53.495 ms

Loss rate: 0.30%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-16 06:36:07

End at: 2018-02-16 06:36:37

Below is generated by plot.py at 2018-02-16 12:13:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.72 Mbit/s

95th percentile per-packet one-way delay: 79.615 ms

Loss rate: 0.35%

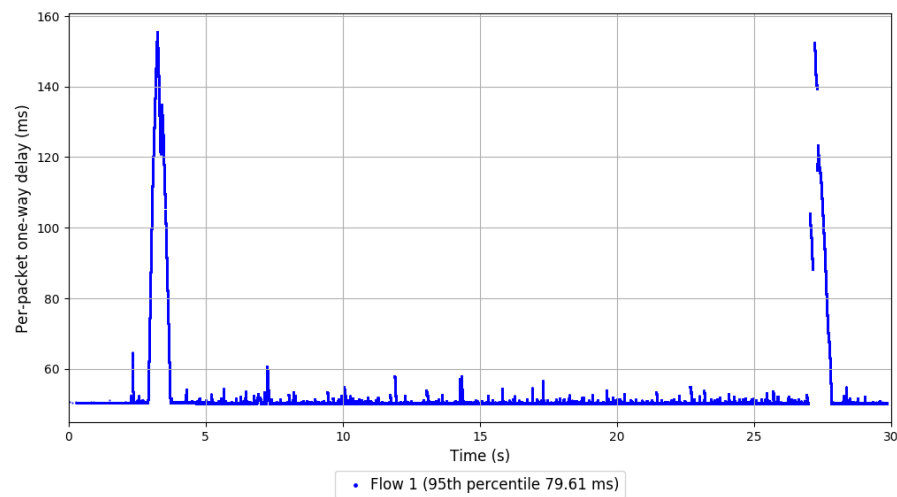
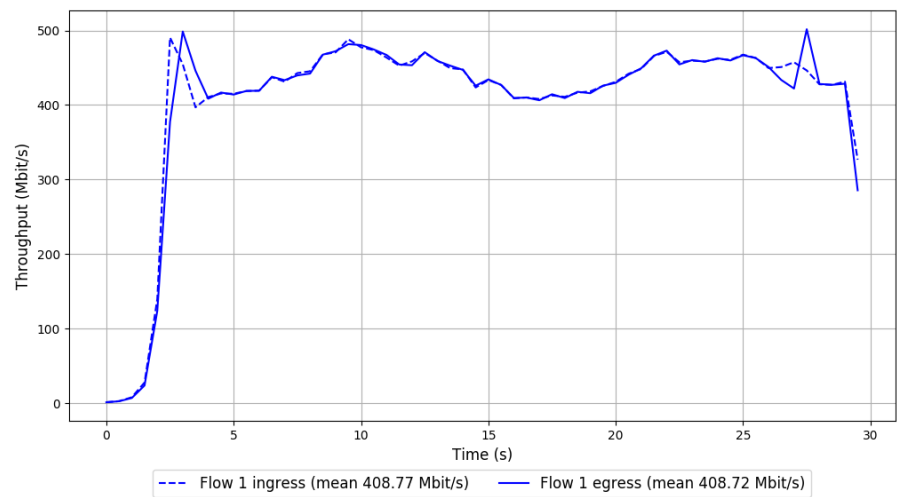
-- Flow 1:

Average throughput: 408.72 Mbit/s

95th percentile per-packet one-way delay: 79.615 ms

Loss rate: 0.35%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-16 06:51:03

End at: 2018-02-16 06:51:33

Below is generated by plot.py at 2018-02-16 12:13:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.03 Mbit/s

95th percentile per-packet one-way delay: 81.289 ms

Loss rate: 1.59%

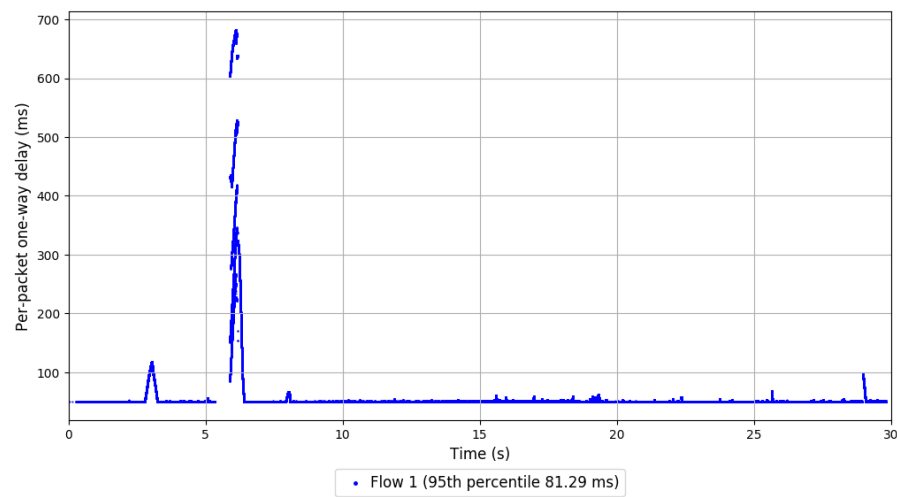
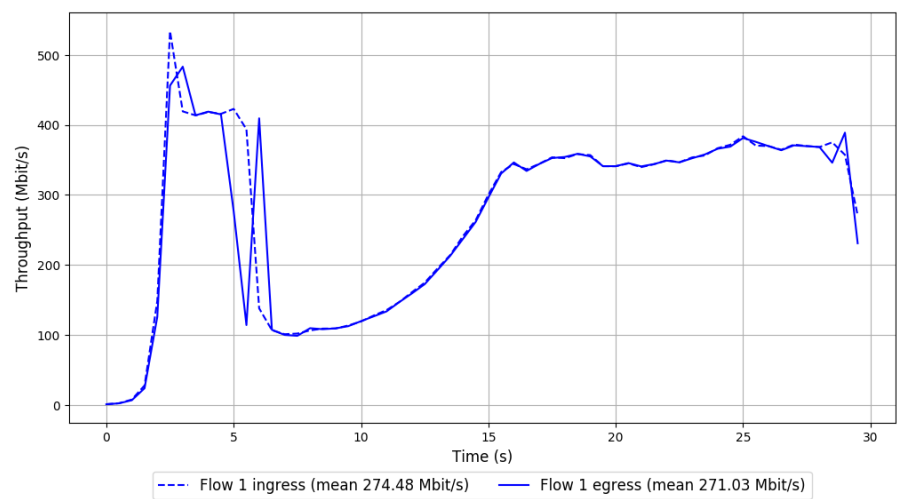
-- Flow 1:

Average throughput: 271.03 Mbit/s

95th percentile per-packet one-way delay: 81.289 ms

Loss rate: 1.59%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-16 07:05:24

End at: 2018-02-16 07:05:54

Below is generated by plot.py at 2018-02-16 12:14:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.81 Mbit/s

95th percentile per-packet one-way delay: 58.330 ms

Loss rate: 0.33%

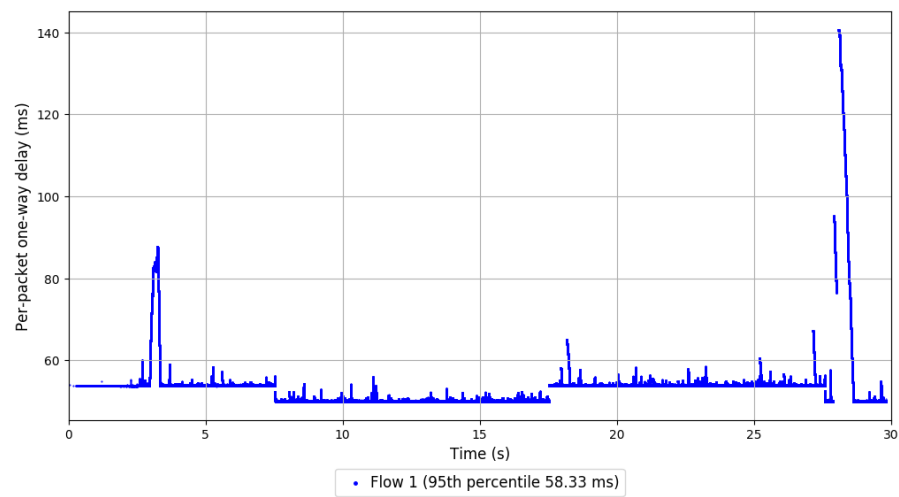
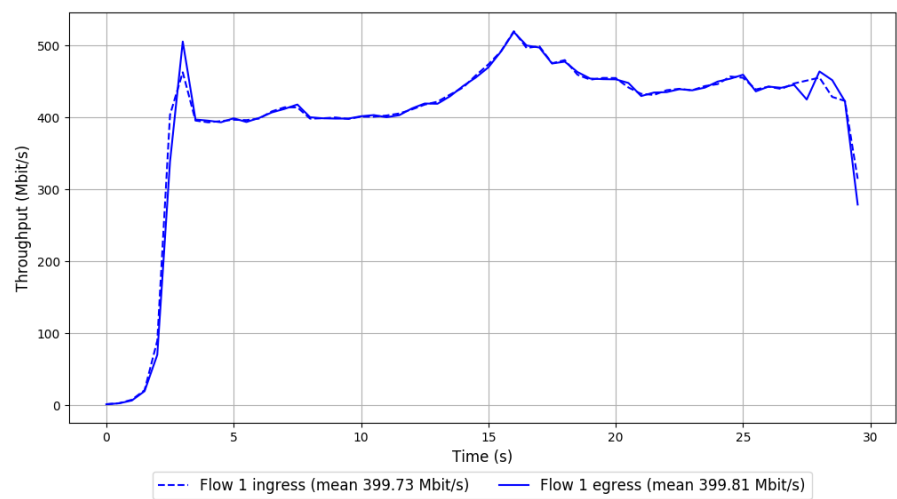
-- Flow 1:

Average throughput: 399.81 Mbit/s

95th percentile per-packet one-way delay: 58.330 ms

Loss rate: 0.33%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-16 07:20:16

End at: 2018-02-16 07:20:46

Below is generated by plot.py at 2018-02-16 12:14:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.87 Mbit/s

95th percentile per-packet one-way delay: 56.529 ms

Loss rate: 0.38%

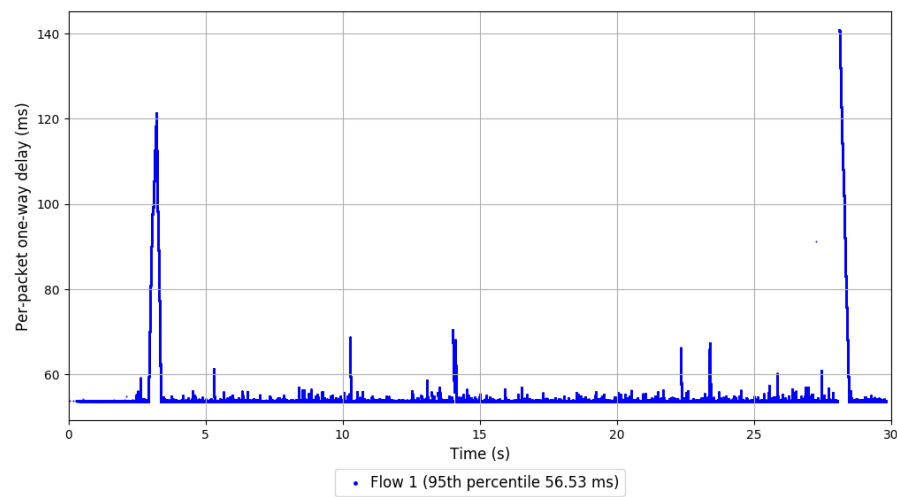
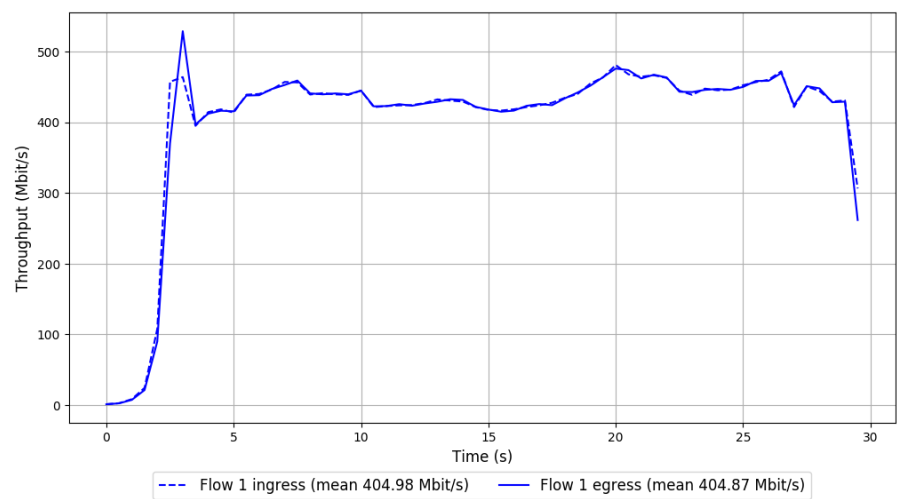
-- Flow 1:

Average throughput: 404.87 Mbit/s

95th percentile per-packet one-way delay: 56.529 ms

Loss rate: 0.38%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-16 07:35:11

End at: 2018-02-16 07:35:41

Below is generated by plot.py at 2018-02-16 12:17:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.79 Mbit/s

95th percentile per-packet one-way delay: 55.107 ms

Loss rate: 0.31%

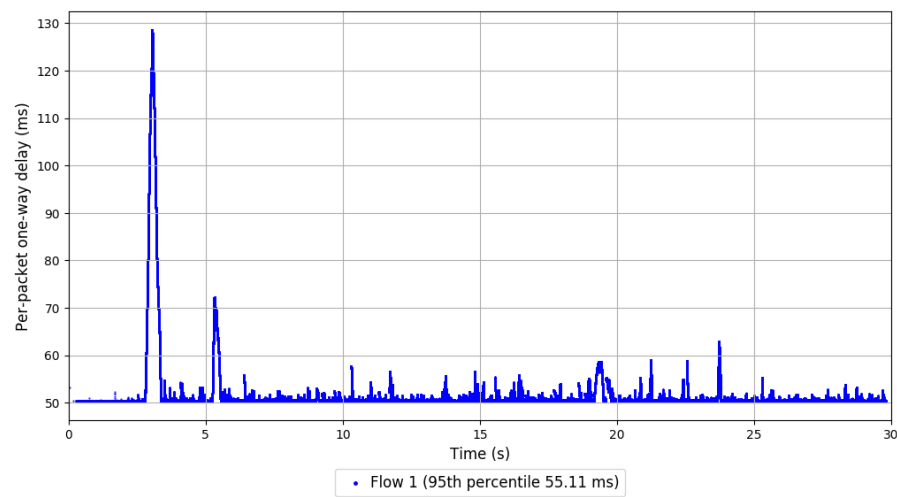
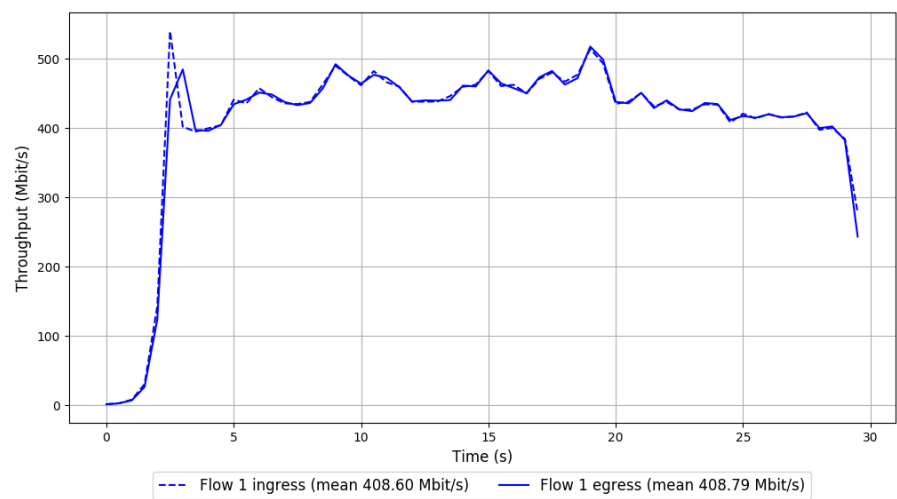
-- Flow 1:

Average throughput: 408.79 Mbit/s

95th percentile per-packet one-way delay: 55.107 ms

Loss rate: 0.31%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-16 07:49:40

End at: 2018-02-16 07:50:10

Below is generated by plot.py at 2018-02-16 12:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.61 Mbit/s

95th percentile per-packet one-way delay: 52.534 ms

Loss rate: 0.53%

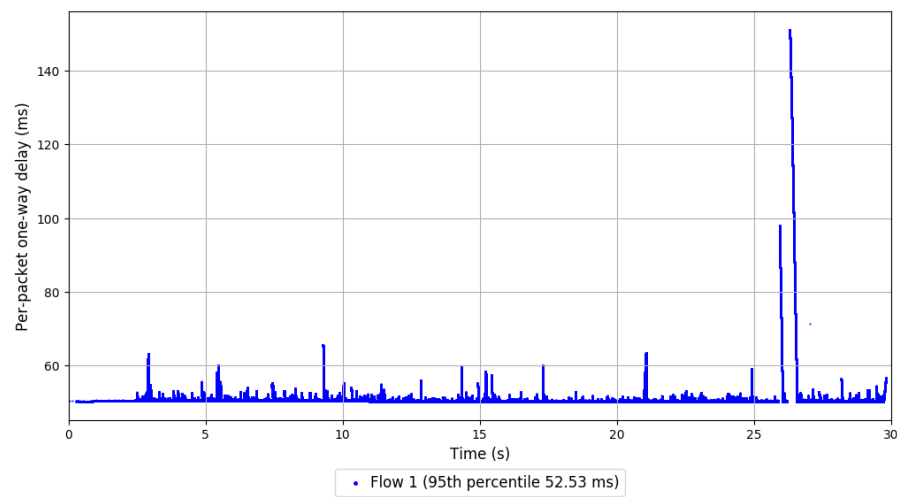
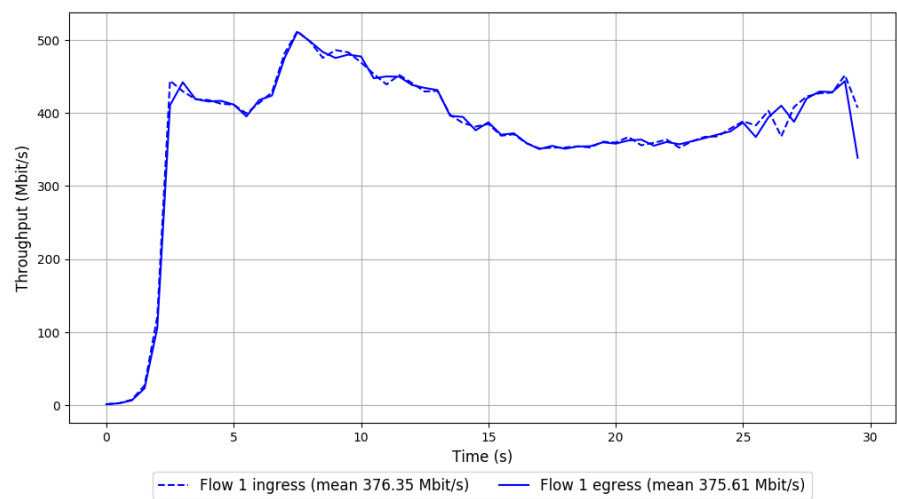
-- Flow 1:

Average throughput: 375.61 Mbit/s

95th percentile per-packet one-way delay: 52.534 ms

Loss rate: 0.53%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-16 08:04:06

End at: 2018-02-16 08:04:36

Below is generated by plot.py at 2018-02-16 12:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.77 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.47%

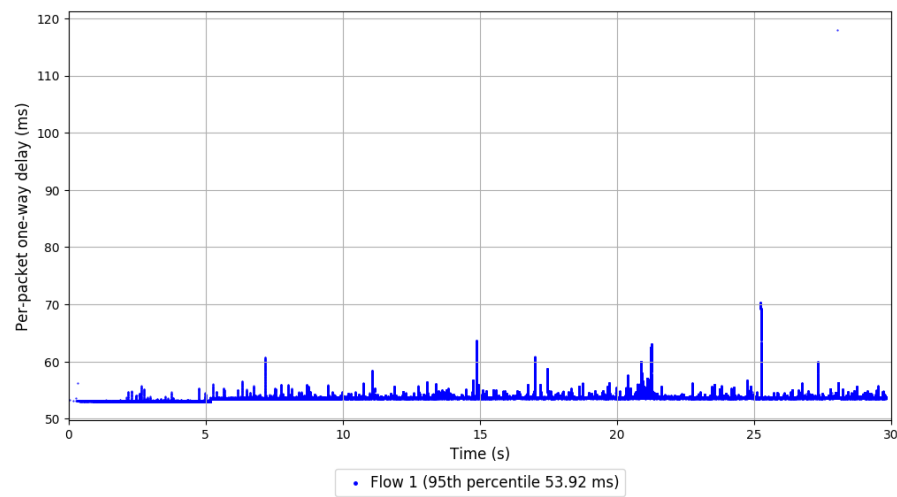
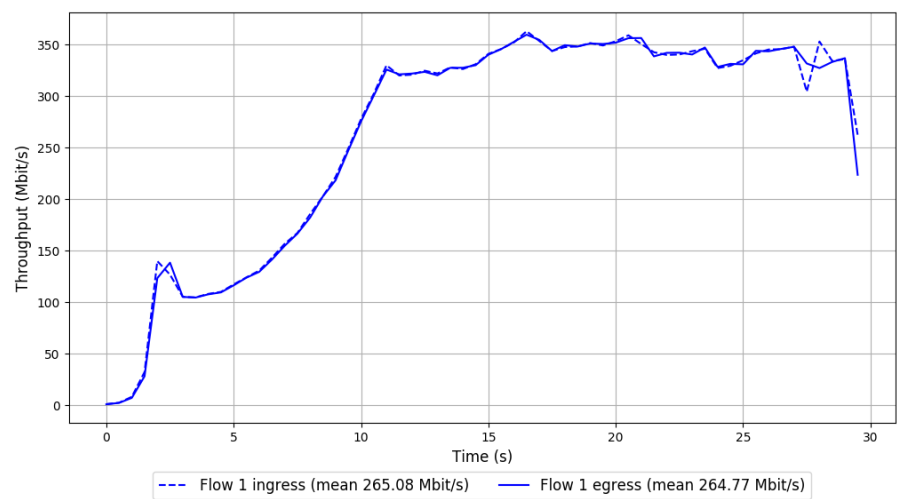
-- Flow 1:

Average throughput: 264.77 Mbit/s

95th percentile per-packet one-way delay: 53.919 ms

Loss rate: 0.47%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-16 08:18:35

End at: 2018-02-16 08:19:05

Below is generated by plot.py at 2018-02-16 12:19:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.57 Mbit/s

95th percentile per-packet one-way delay: 50.739 ms

Loss rate: 0.32%

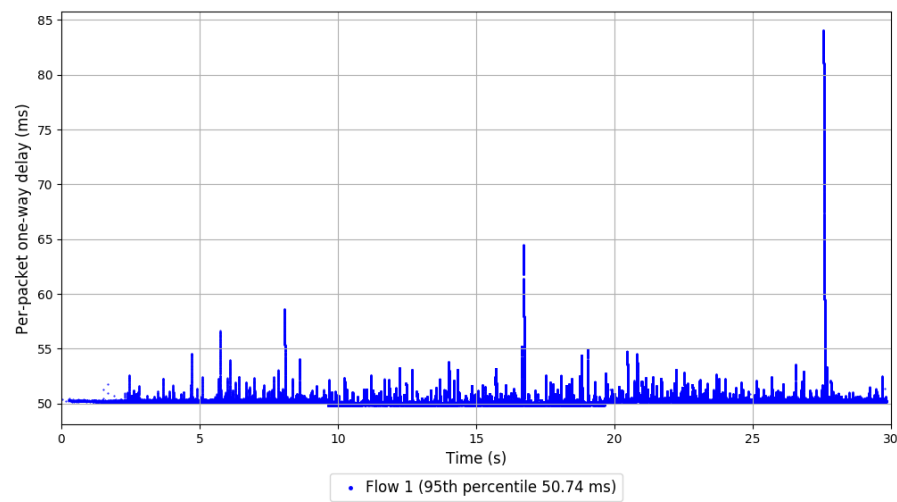
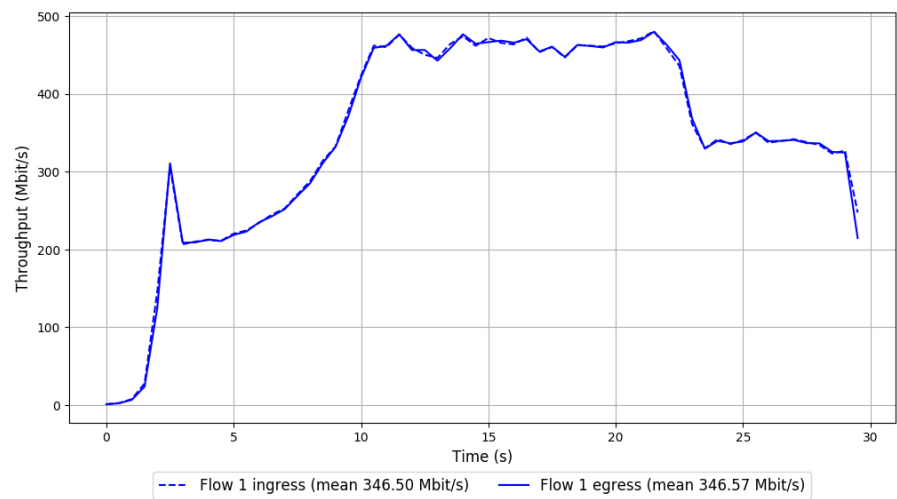
-- Flow 1:

Average throughput: 346.57 Mbit/s

95th percentile per-packet one-way delay: 50.739 ms

Loss rate: 0.32%

Run 10: Report of Vivace-latency — Data Link

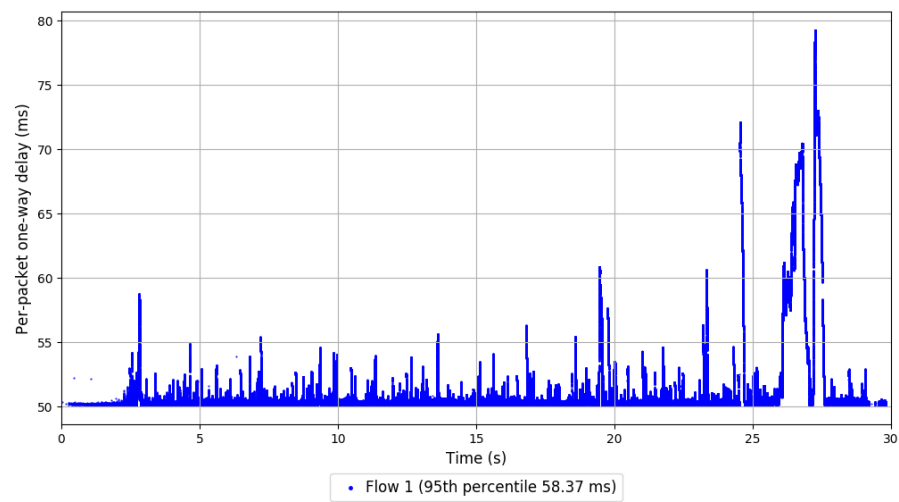
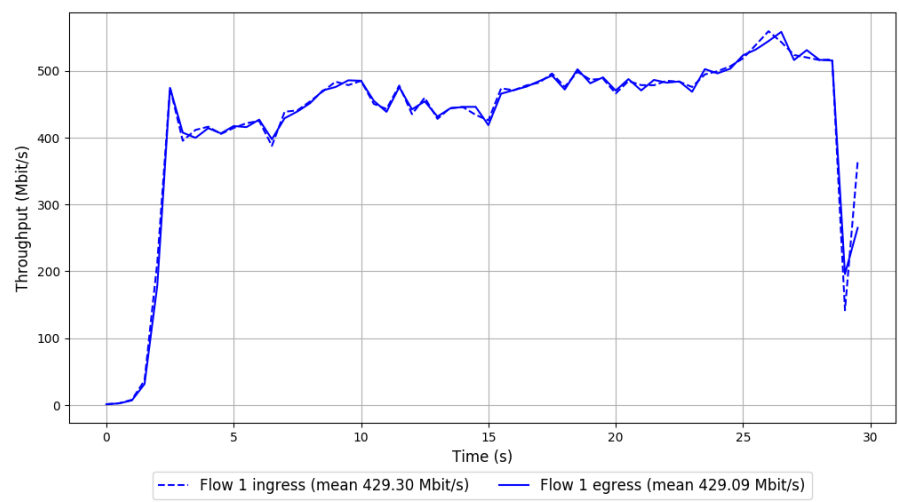


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-16 06:04:08
End at: 2018-02-16 06:04:38

# Below is generated by plot.py at 2018-02-16 12:20:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 429.09 Mbit/s
95th percentile per-packet one-way delay: 58.366 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 429.09 Mbit/s
95th percentile per-packet one-way delay: 58.366 ms
Loss rate: 0.39%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-16 06:18:47

End at: 2018-02-16 06:19:17

Below is generated by plot.py at 2018-02-16 12:21:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.52 Mbit/s

95th percentile per-packet one-way delay: 74.528 ms

Loss rate: 0.38%

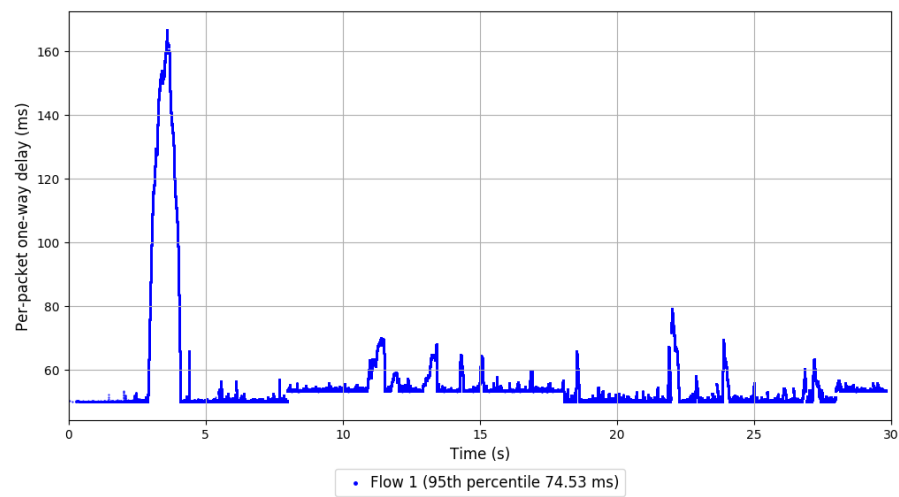
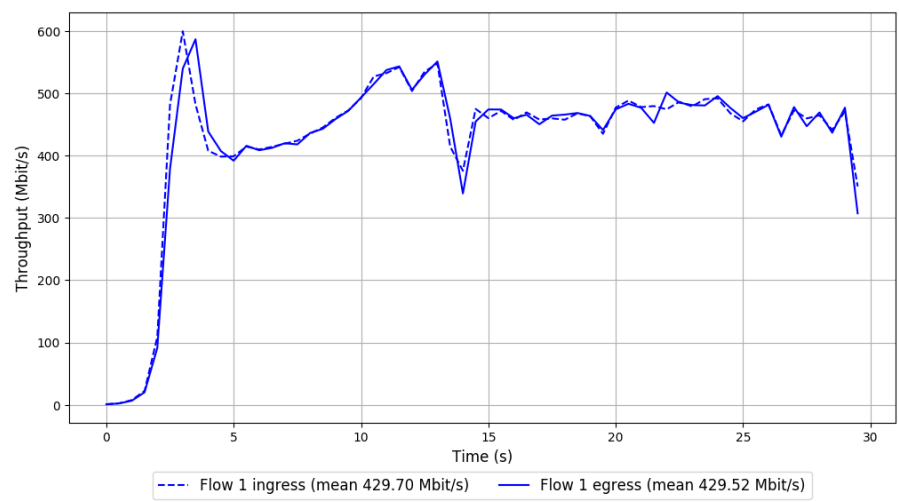
-- Flow 1:

Average throughput: 429.52 Mbit/s

95th percentile per-packet one-way delay: 74.528 ms

Loss rate: 0.38%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-16 06:33:26

End at: 2018-02-16 06:33:56

Below is generated by plot.py at 2018-02-16 12:22:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 420.54 Mbit/s

95th percentile per-packet one-way delay: 168.195 ms

Loss rate: 1.59%

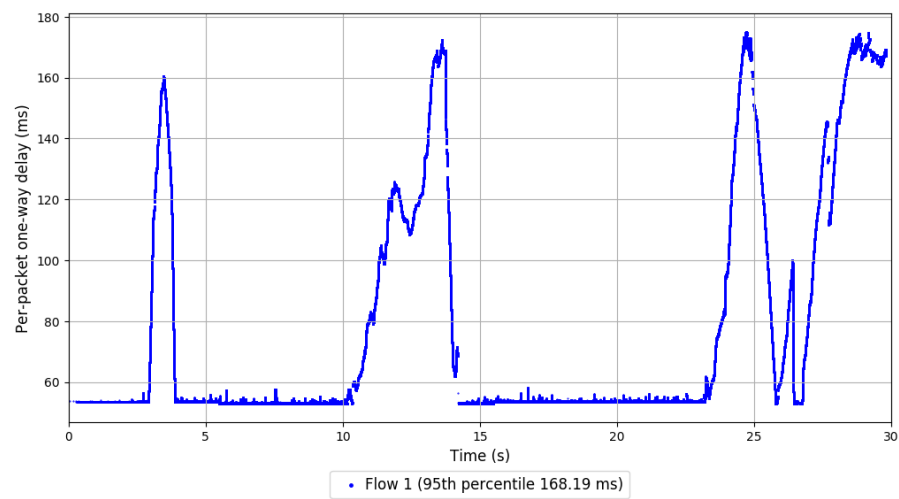
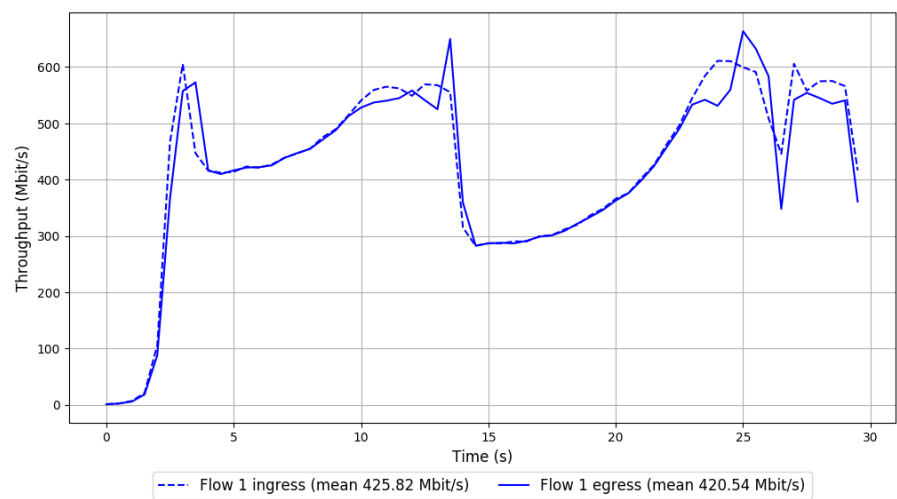
-- Flow 1:

Average throughput: 420.54 Mbit/s

95th percentile per-packet one-way delay: 168.195 ms

Loss rate: 1.59%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-16 06:48:20

End at: 2018-02-16 06:48:50

Below is generated by plot.py at 2018-02-16 12:22:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.76 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.43%

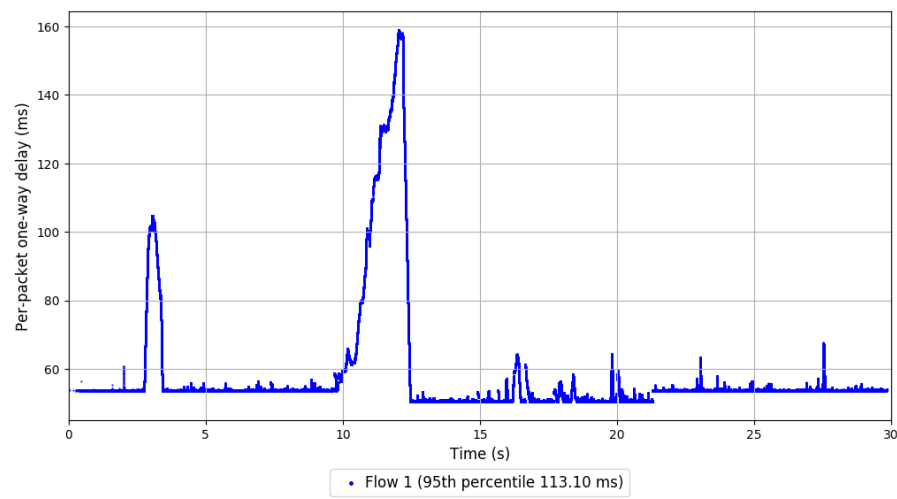
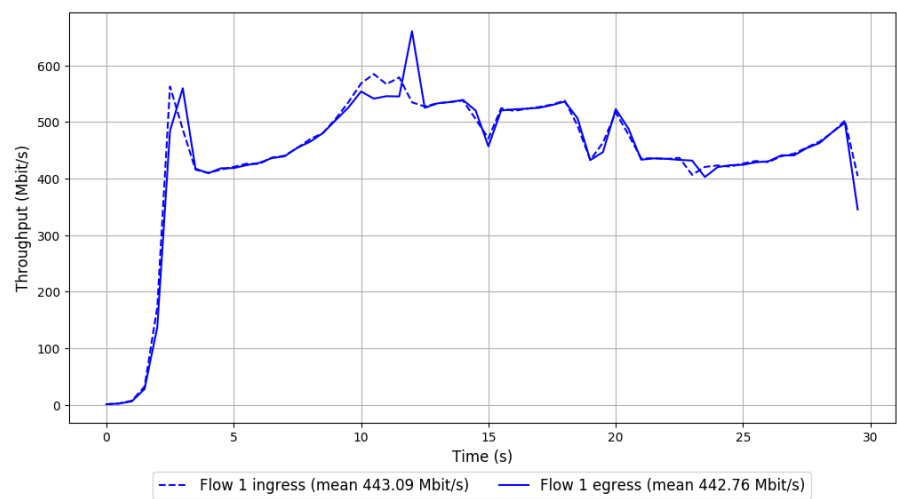
-- Flow 1:

Average throughput: 442.76 Mbit/s

95th percentile per-packet one-way delay: 113.096 ms

Loss rate: 0.43%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-16 07:02:45

End at: 2018-02-16 07:03:15

Below is generated by plot.py at 2018-02-16 12:23:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.75 Mbit/s

95th percentile per-packet one-way delay: 180.721 ms

Loss rate: 3.43%

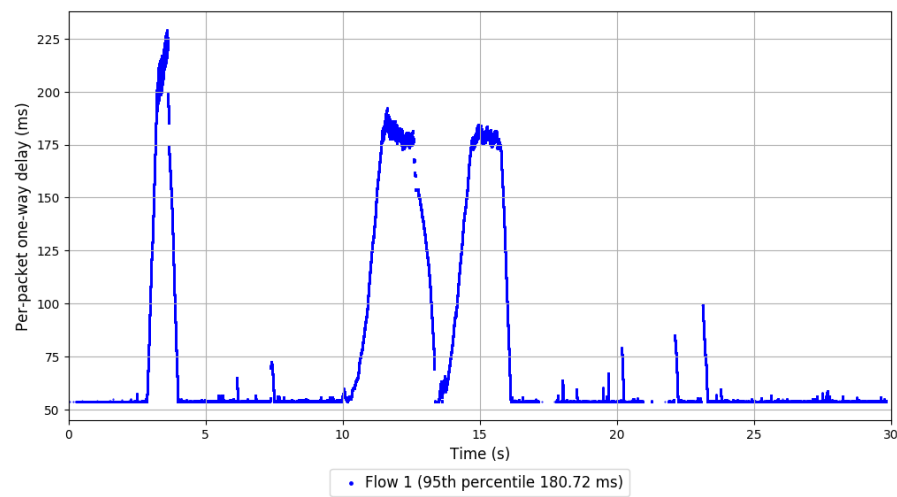
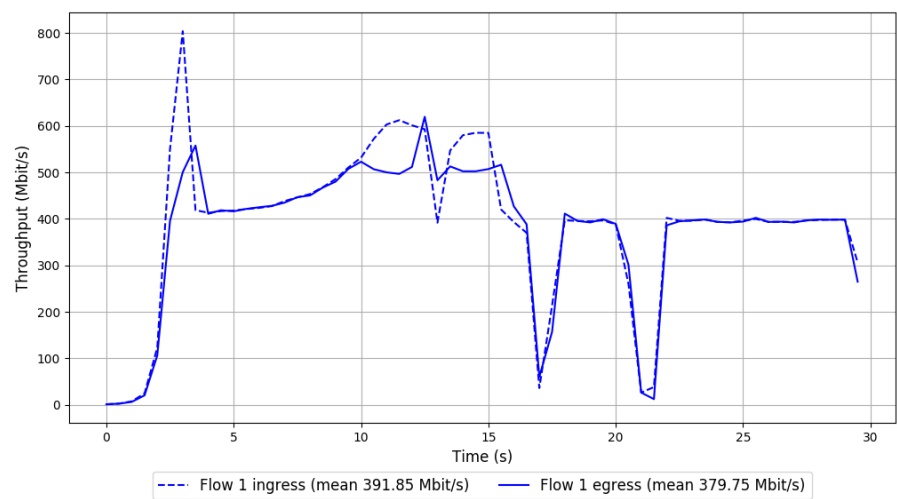
-- Flow 1:

Average throughput: 379.75 Mbit/s

95th percentile per-packet one-way delay: 180.721 ms

Loss rate: 3.43%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-16 07:17:35

End at: 2018-02-16 07:18:05

Below is generated by plot.py at 2018-02-16 12:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.32 Mbit/s

95th percentile per-packet one-way delay: 182.674 ms

Loss rate: 4.78%

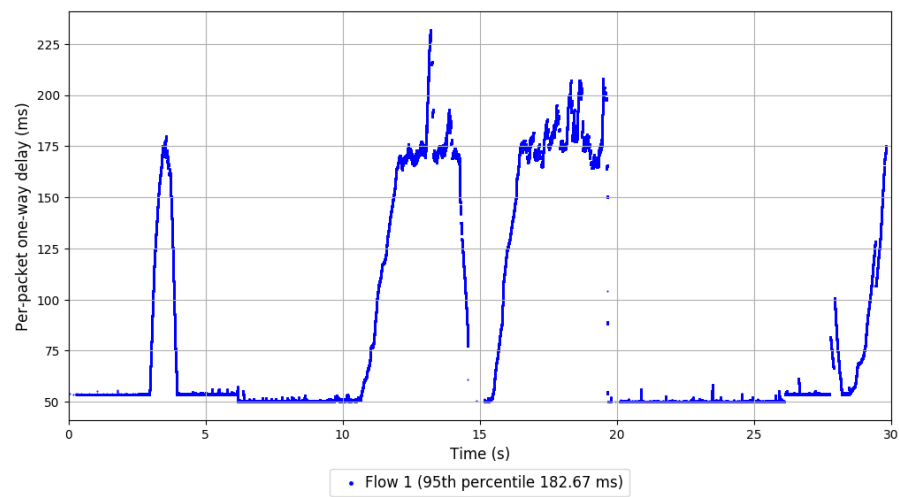
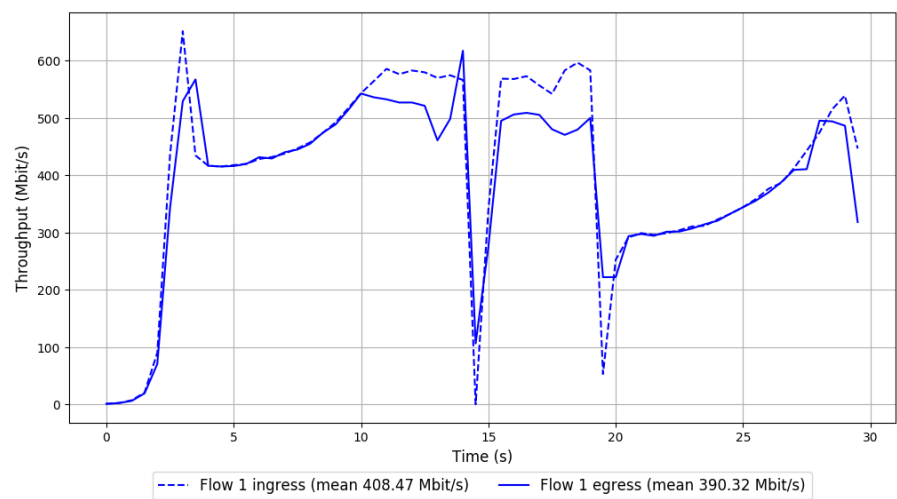
-- Flow 1:

Average throughput: 390.32 Mbit/s

95th percentile per-packet one-way delay: 182.674 ms

Loss rate: 4.78%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-16 07:32:31

End at: 2018-02-16 07:33:01

Below is generated by plot.py at 2018-02-16 12:26:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.66 Mbit/s

95th percentile per-packet one-way delay: 200.966 ms

Loss rate: 11.18%

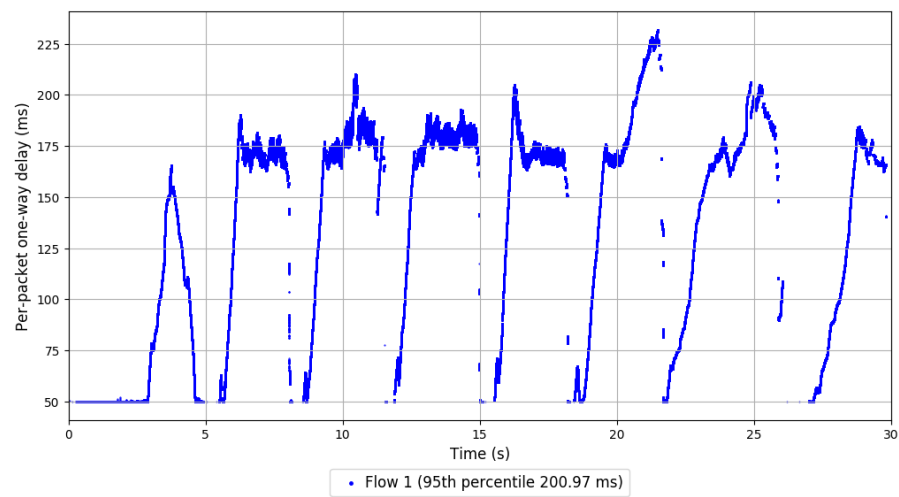
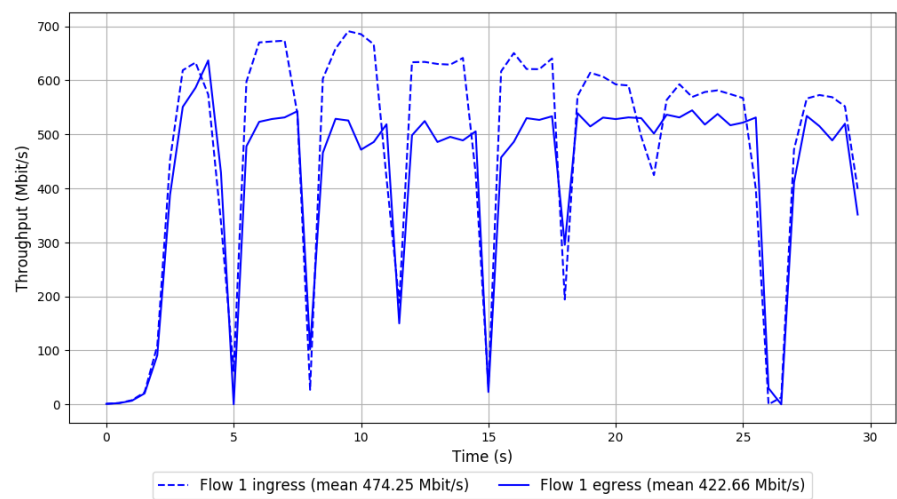
-- Flow 1:

Average throughput: 422.66 Mbit/s

95th percentile per-packet one-way delay: 200.966 ms

Loss rate: 11.18%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-16 07:47:02

End at: 2018-02-16 07:47:32

Below is generated by plot.py at 2018-02-16 12:26:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 393.22 Mbit/s

95th percentile per-packet one-way delay: 172.422 ms

Loss rate: 0.63%

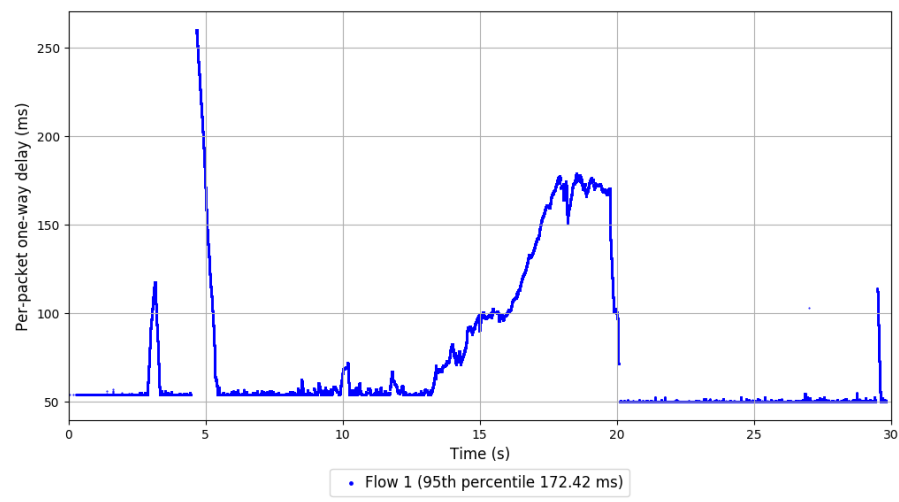
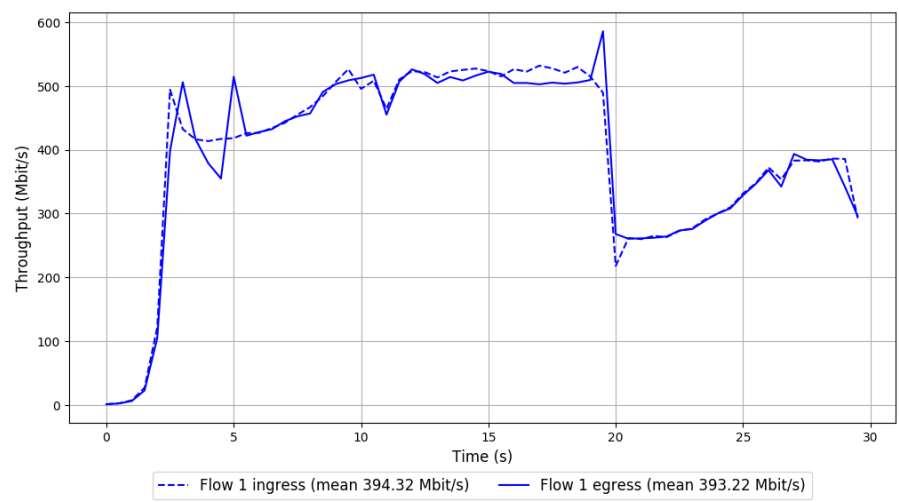
-- Flow 1:

Average throughput: 393.22 Mbit/s

95th percentile per-packet one-way delay: 172.422 ms

Loss rate: 0.63%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-16 08:01:28

End at: 2018-02-16 08:01:58

Below is generated by plot.py at 2018-02-16 12:27:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.46 Mbit/s

95th percentile per-packet one-way delay: 57.259 ms

Loss rate: 0.25%

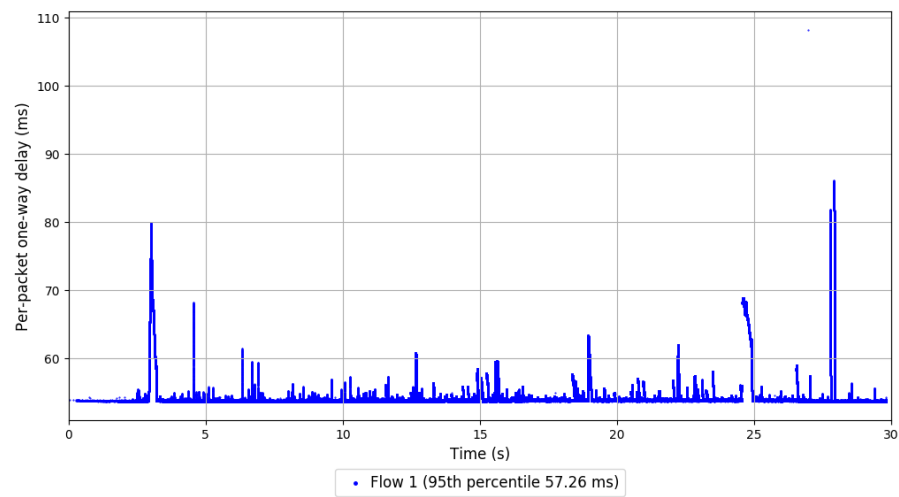
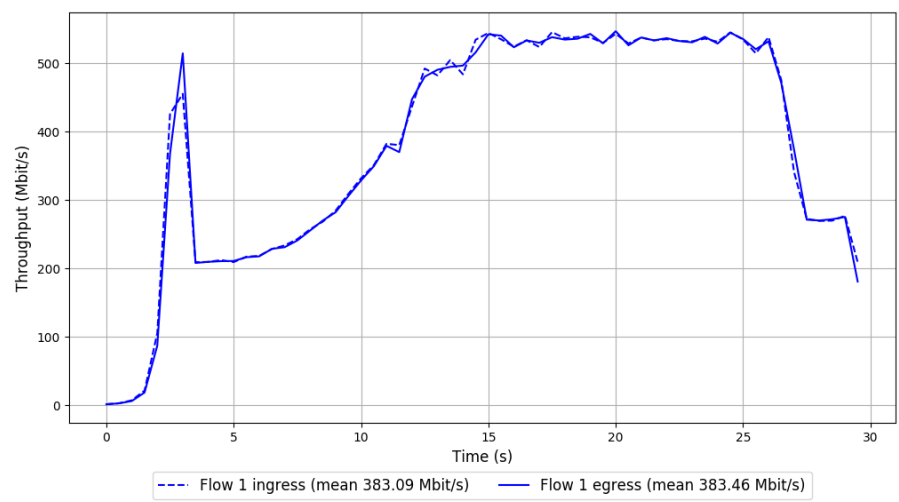
-- Flow 1:

Average throughput: 383.46 Mbit/s

95th percentile per-packet one-way delay: 57.259 ms

Loss rate: 0.25%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-16 08:15:57

End at: 2018-02-16 08:16:27

Below is generated by plot.py at 2018-02-16 12:28:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 407.31 Mbit/s

95th percentile per-packet one-way delay: 80.474 ms

Loss rate: 0.36%

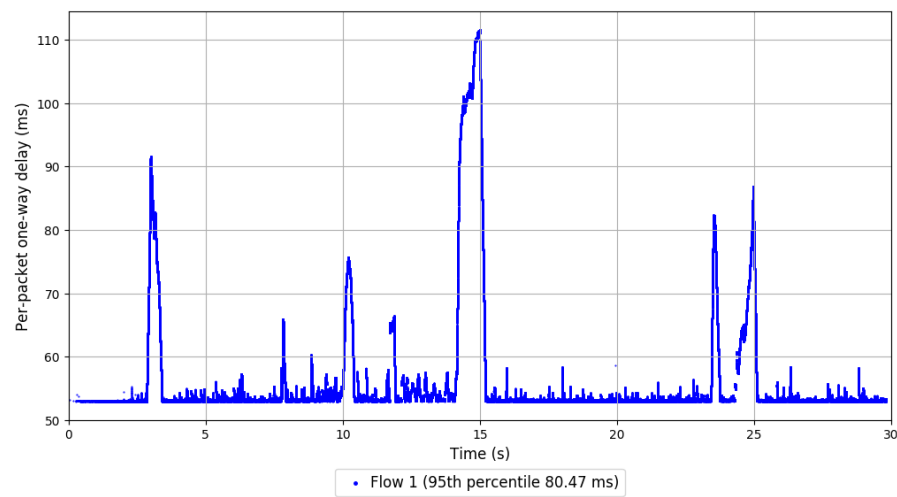
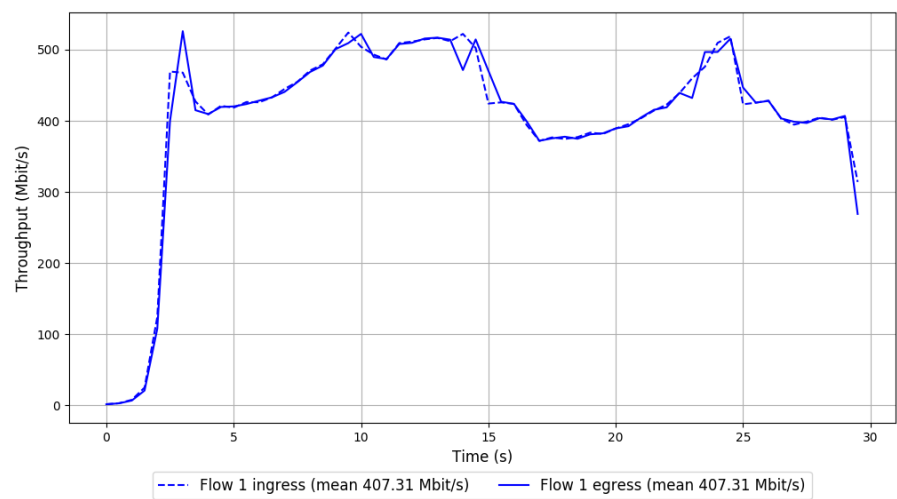
-- Flow 1:

Average throughput: 407.31 Mbit/s

95th percentile per-packet one-way delay: 80.474 ms

Loss rate: 0.36%

Run 10: Report of Vivace-loss — Data Link

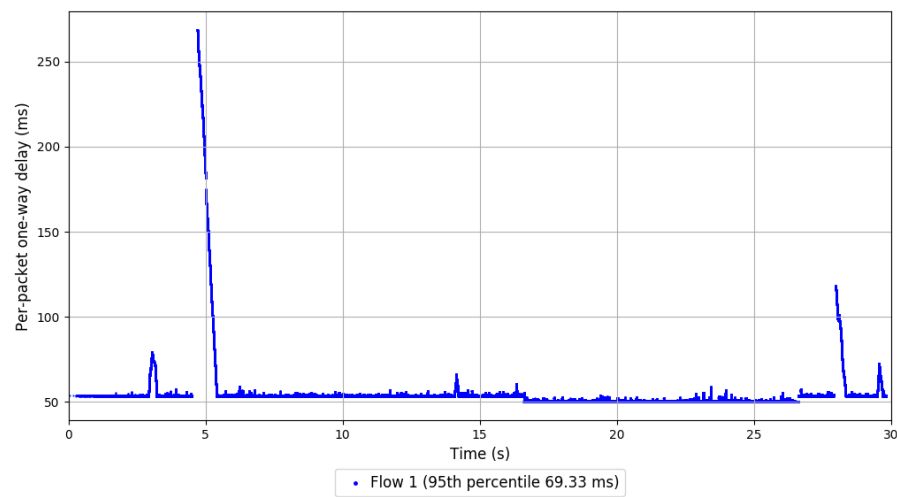
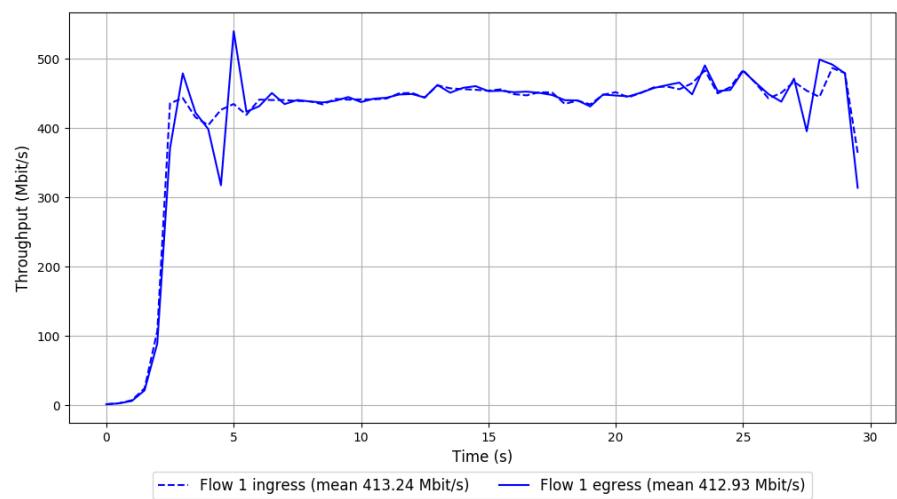


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-16 06:03:05
End at: 2018-02-16 06:03:35

# Below is generated by plot.py at 2018-02-16 12:29:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 412.93 Mbit/s
95th percentile per-packet one-way delay: 69.330 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 412.93 Mbit/s
95th percentile per-packet one-way delay: 69.330 ms
Loss rate: 0.43%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-16 06:17:46

End at: 2018-02-16 06:18:16

Below is generated by plot.py at 2018-02-16 12:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.68 Mbit/s

95th percentile per-packet one-way delay: 62.296 ms

Loss rate: 0.37%

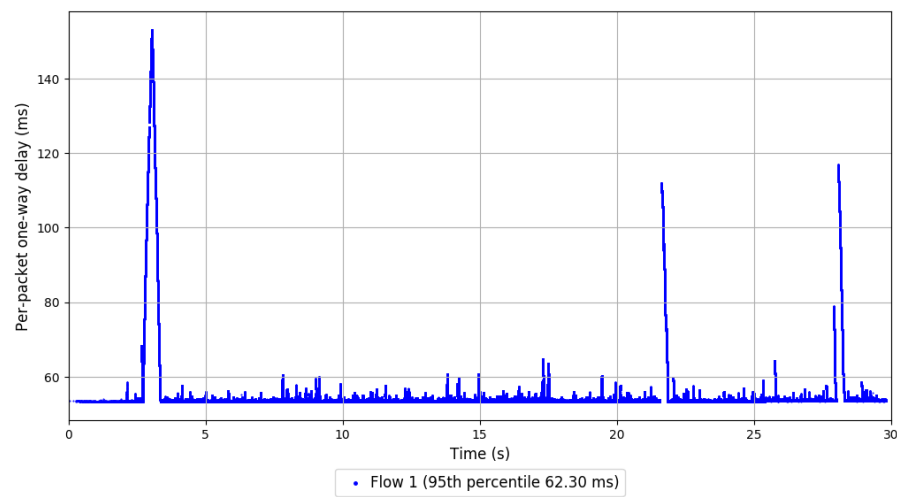
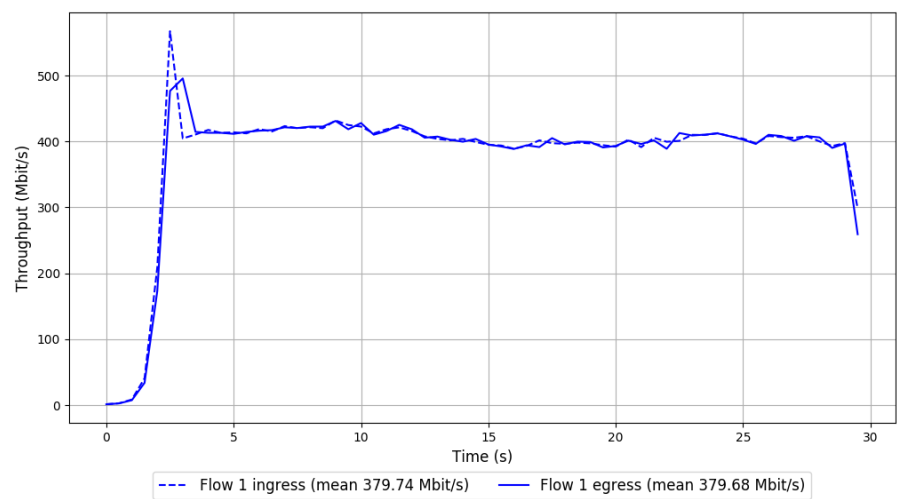
-- Flow 1:

Average throughput: 379.68 Mbit/s

95th percentile per-packet one-way delay: 62.296 ms

Loss rate: 0.37%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-16 06:32:30

End at: 2018-02-16 06:33:00

Below is generated by plot.py at 2018-02-16 12:29:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.43 Mbit/s

95th percentile per-packet one-way delay: 146.524 ms

Loss rate: 0.58%

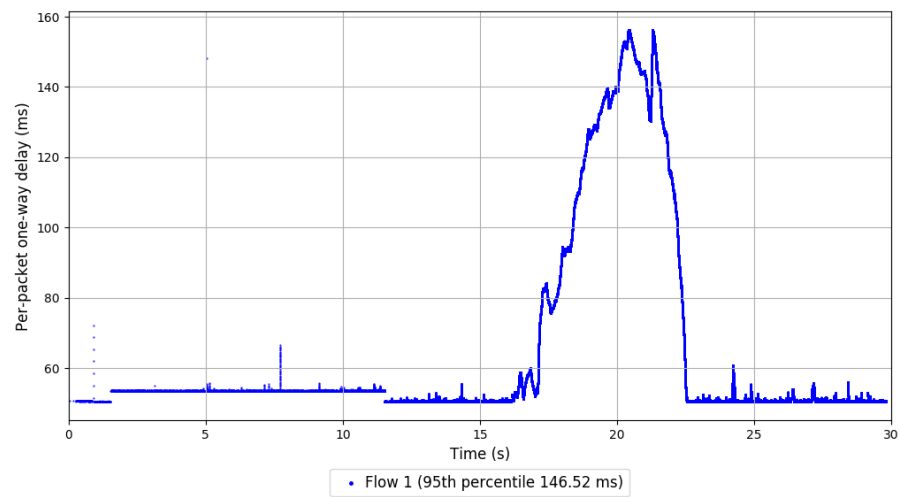
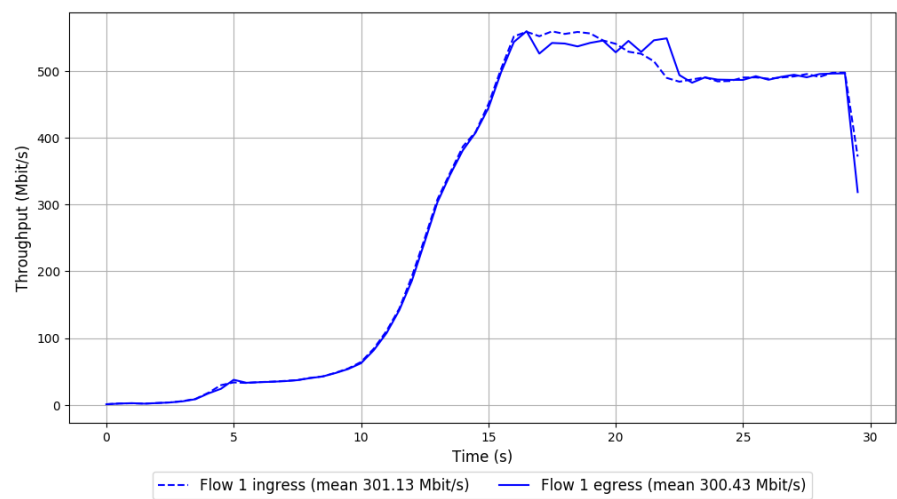
-- Flow 1:

Average throughput: 300.43 Mbit/s

95th percentile per-packet one-way delay: 146.524 ms

Loss rate: 0.58%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-16 06:47:16

End at: 2018-02-16 06:47:46

Below is generated by plot.py at 2018-02-16 12:31:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.04 Mbit/s

95th percentile per-packet one-way delay: 59.154 ms

Loss rate: 0.31%

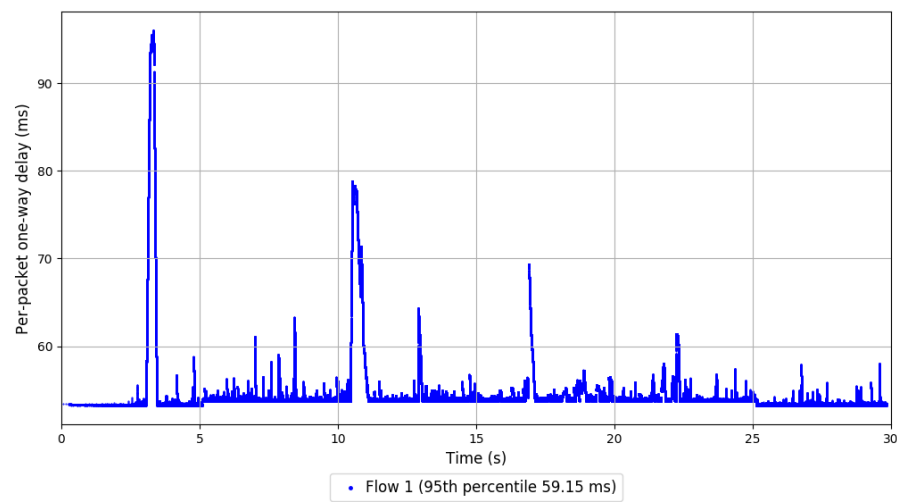
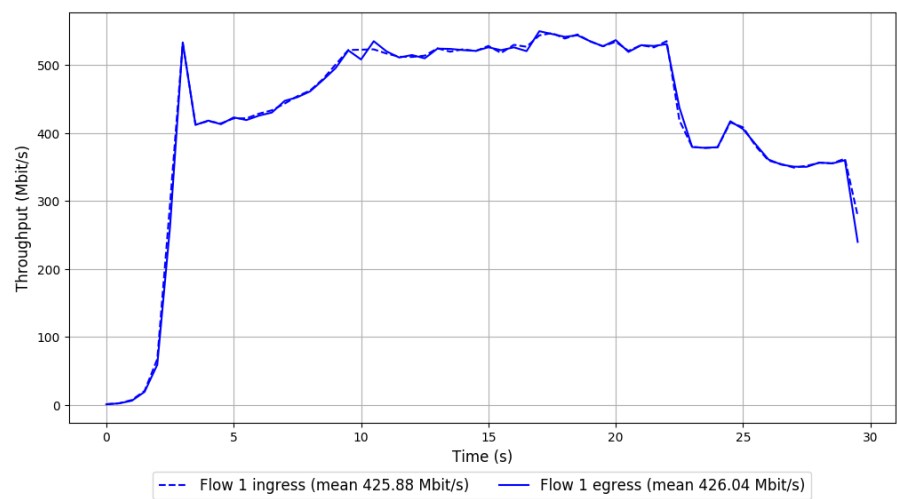
-- Flow 1:

Average throughput: 426.04 Mbit/s

95th percentile per-packet one-way delay: 59.154 ms

Loss rate: 0.31%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-16 07:01:47

End at: 2018-02-16 07:02:17

Below is generated by plot.py at 2018-02-16 12:31:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 331.31 Mbit/s

95th percentile per-packet one-way delay: 53.738 ms

Loss rate: 3.21%

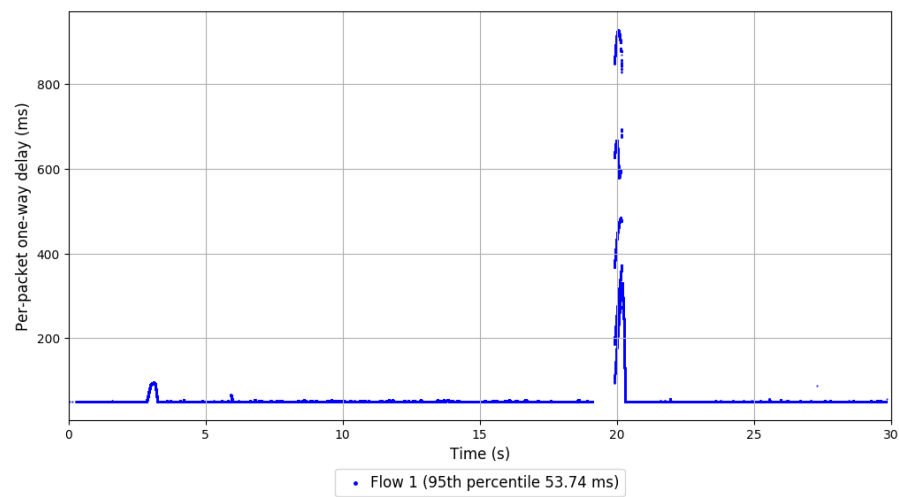
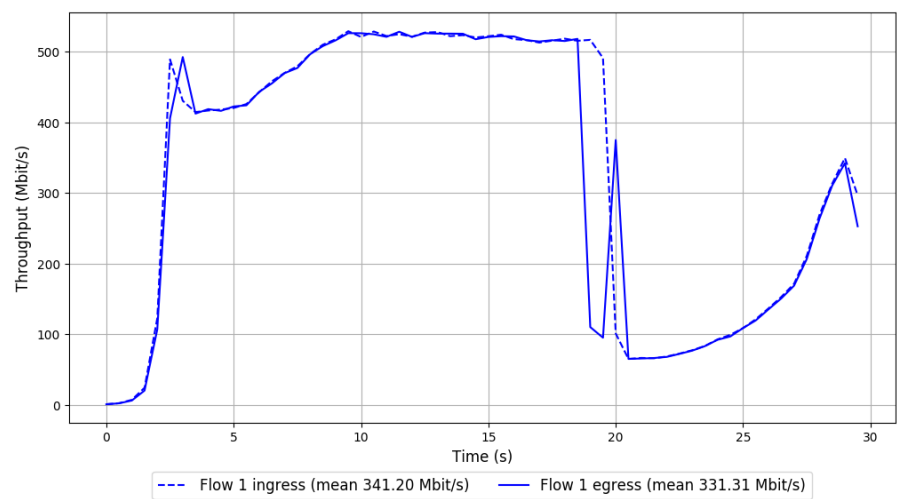
-- Flow 1:

Average throughput: 331.31 Mbit/s

95th percentile per-packet one-way delay: 53.738 ms

Loss rate: 3.21%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-16 07:16:29

End at: 2018-02-16 07:16:59

Below is generated by plot.py at 2018-02-16 12:33:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.61 Mbit/s

95th percentile per-packet one-way delay: 70.523 ms

Loss rate: 0.38%

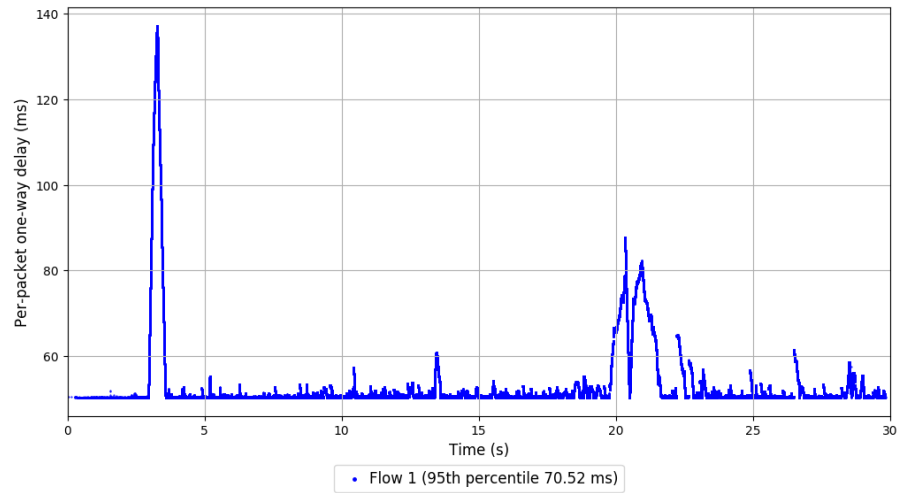
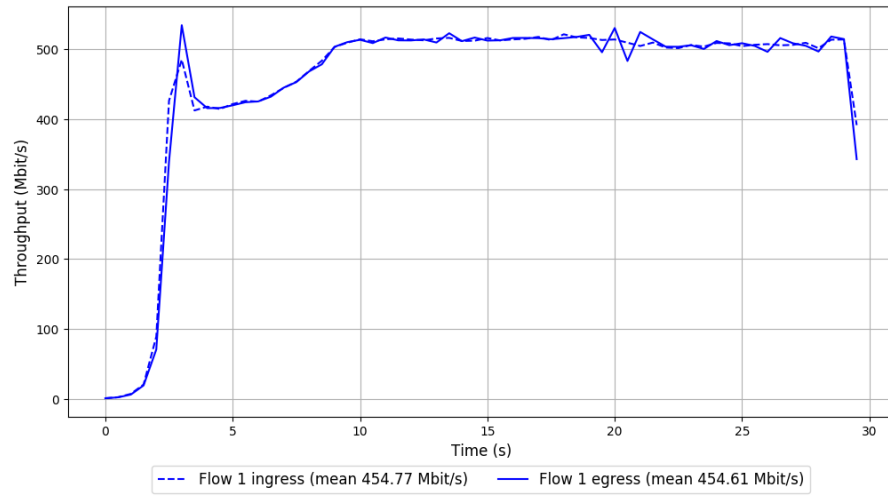
-- Flow 1:

Average throughput: 454.61 Mbit/s

95th percentile per-packet one-way delay: 70.523 ms

Loss rate: 0.38%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-16 07:31:25

End at: 2018-02-16 07:31:55

Below is generated by plot.py at 2018-02-16 12:33:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 464.48 Mbit/s

95th percentile per-packet one-way delay: 56.219 ms

Loss rate: 0.38%

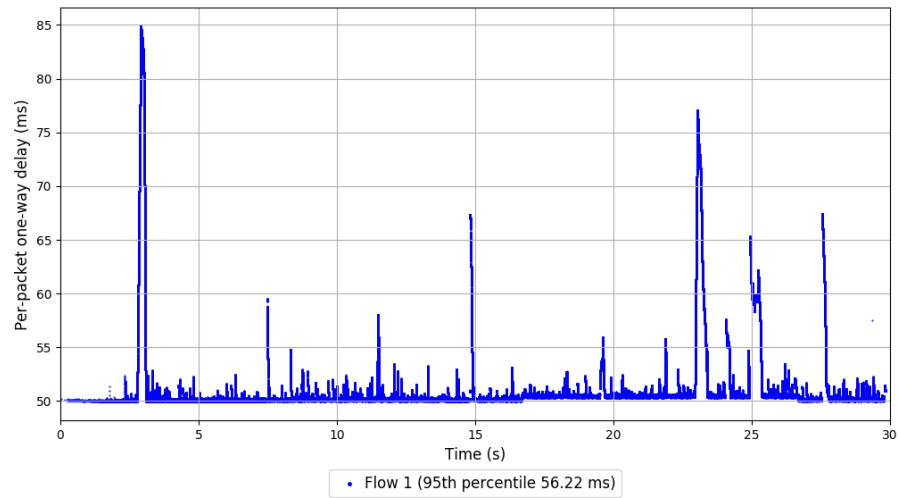
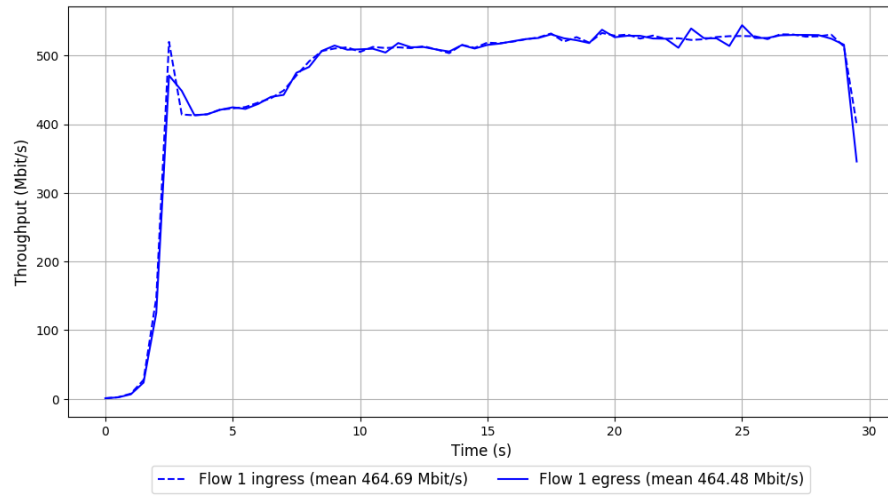
-- Flow 1:

Average throughput: 464.48 Mbit/s

95th percentile per-packet one-way delay: 56.219 ms

Loss rate: 0.38%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-16 07:45:59

End at: 2018-02-16 07:46:29

Below is generated by plot.py at 2018-02-16 12:33:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.30 Mbit/s

95th percentile per-packet one-way delay: 57.026 ms

Loss rate: 0.40%

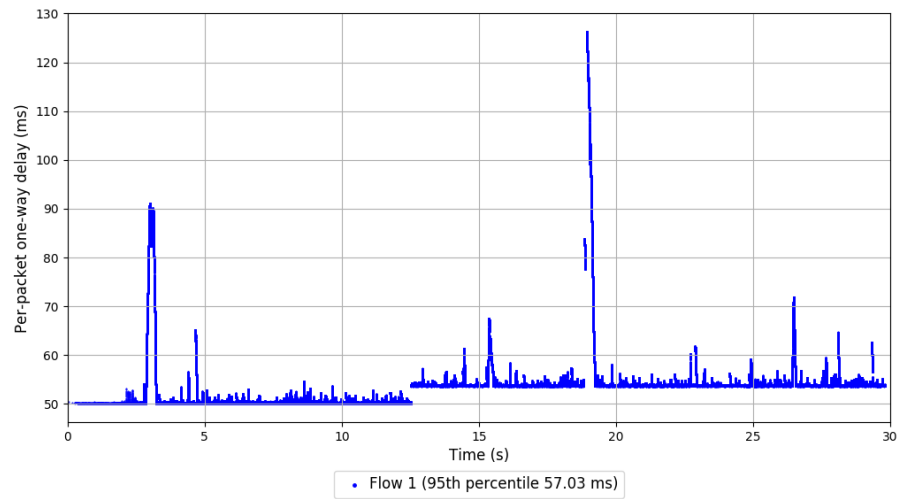
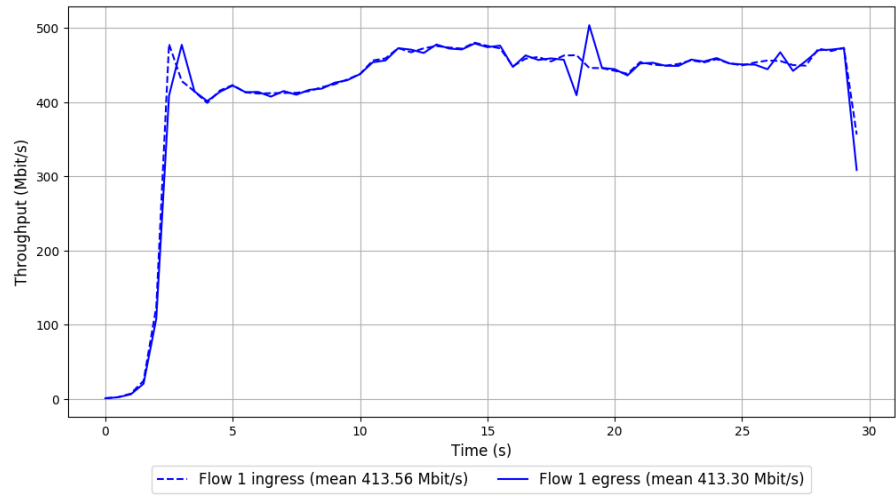
-- Flow 1:

Average throughput: 413.30 Mbit/s

95th percentile per-packet one-way delay: 57.026 ms

Loss rate: 0.40%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-16 08:00:24

End at: 2018-02-16 08:00:54

Below is generated by plot.py at 2018-02-16 12:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.52 Mbit/s

95th percentile per-packet one-way delay: 109.500 ms

Loss rate: 0.37%

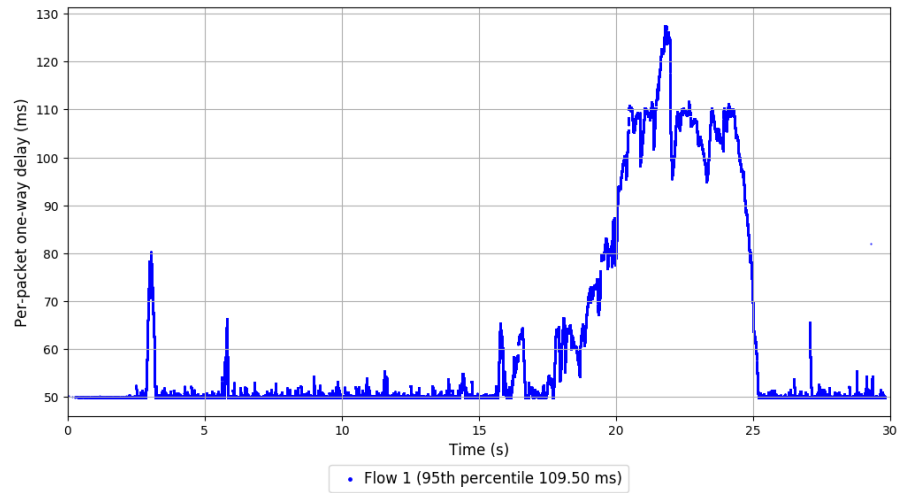
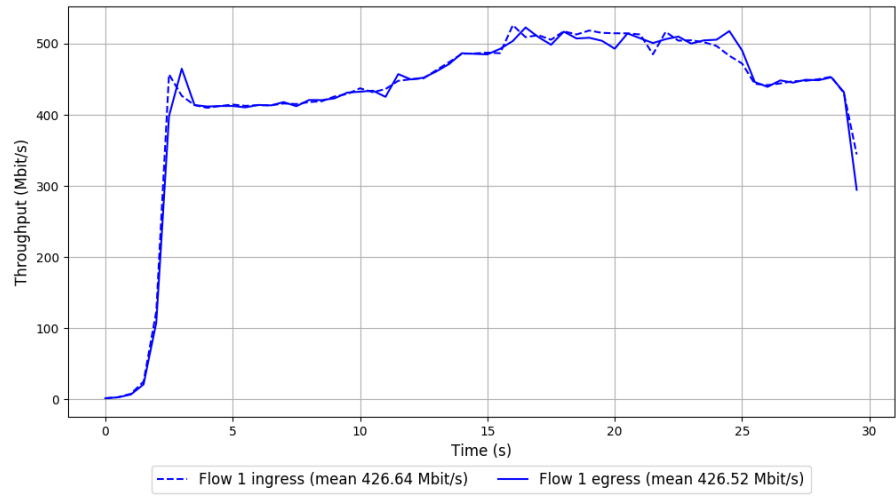
-- Flow 1:

Average throughput: 426.52 Mbit/s

95th percentile per-packet one-way delay: 109.500 ms

Loss rate: 0.37%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-02-16 08:14:58

End at: 2018-02-16 08:15:28

Below is generated by plot.py at 2018-02-16 12:33:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.00 Mbit/s

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

Loss rate: 0.44%

-- Flow 1:

Average throughput: 341.00 Mbit/s

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

Loss rate: 0.44%

Run 10: Report of Vivace-LTE — Data Link

