

Pantheon Report

Generated at 2018-04-17 02:27:33 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

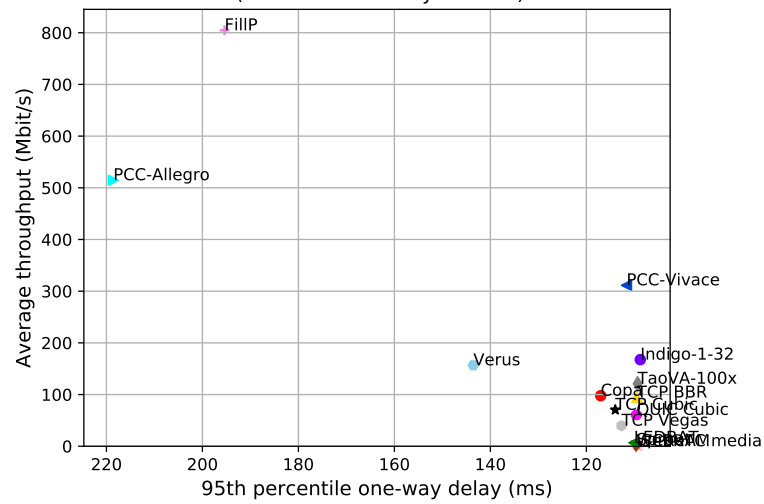
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

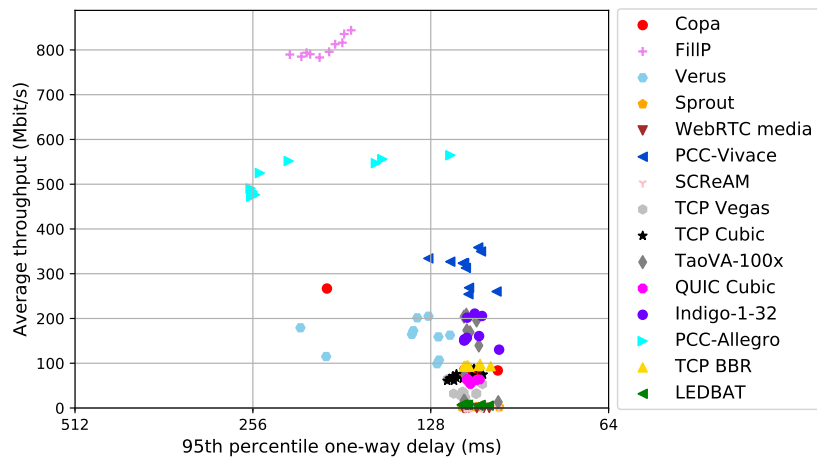
Git summary:

```
branch: master @ 4ed32c0e22b4dd733f97c1d3aaab2e5bb16f66b4
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webRTC @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	94.16	109.49	0.78
TCP Cubic	10	70.42	113.98	0.83
LEDBAT	10	6.70	110.11	1.55
PCC-Allegro	10	514.69	218.57	2.95
QUIC Cubic	9	60.66	109.57	1.02
SCReAM	10	0.22	108.55	0.74
WebRTC media	10	0.06	109.64	0.00
Sprout	10	2.49	109.54	1.13
TaoVA-100x	10	120.90	109.33	0.55
TCP Vegas	10	39.70	112.67	0.71
Verus	10	156.57	143.56	0.82
Copa	10	97.75	117.02	1.69
FillP	10	804.64	195.39	4.56
Indigo-1-32	10	167.55	108.76	0.78
PCC-Vivace	10	311.33	111.64	0.81
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-16 20:57:25

End at: 2018-04-16 20:57:55

Below is generated by plot.py at 2018-04-17 01:32:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 101.366 ms

Loss rate: 0.77%

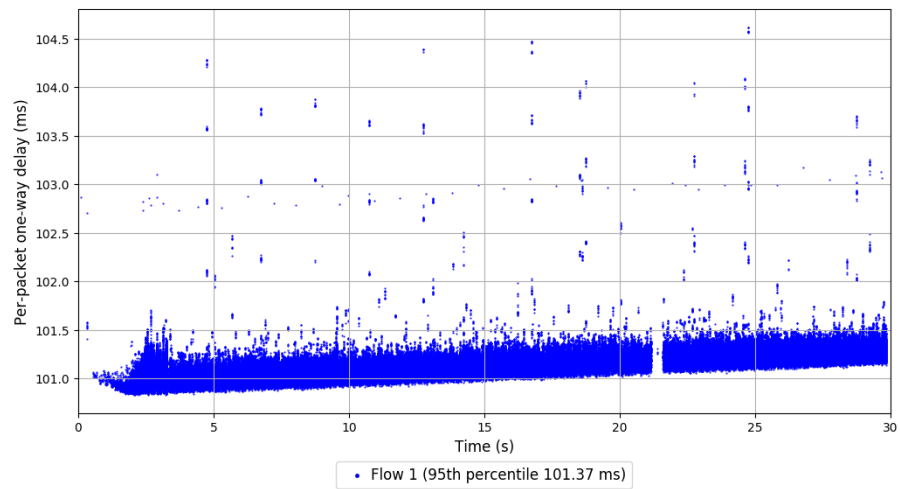
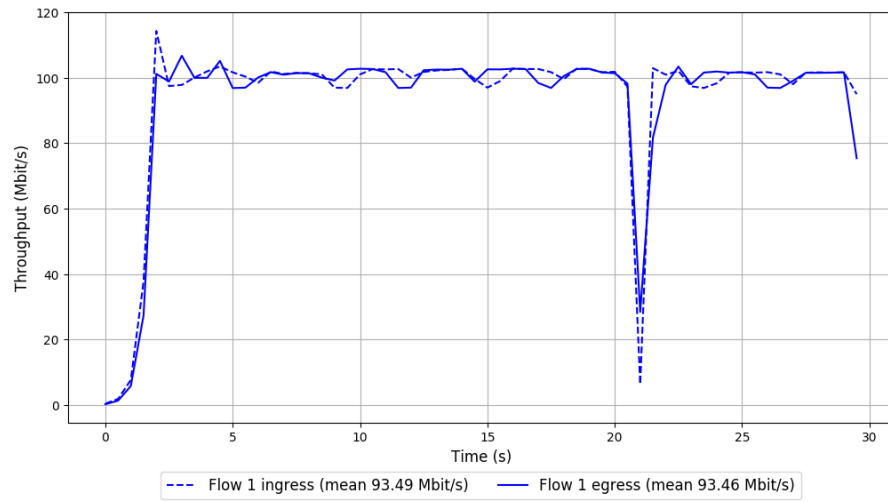
-- Flow 1:

Average throughput: 93.46 Mbit/s

95th percentile per-packet one-way delay: 101.366 ms

Loss rate: 0.77%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-16 21:11:37

End at: 2018-04-16 21:12:08

Below is generated by plot.py at 2018-04-17 01:33:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 106.229 ms

Loss rate: 0.77%

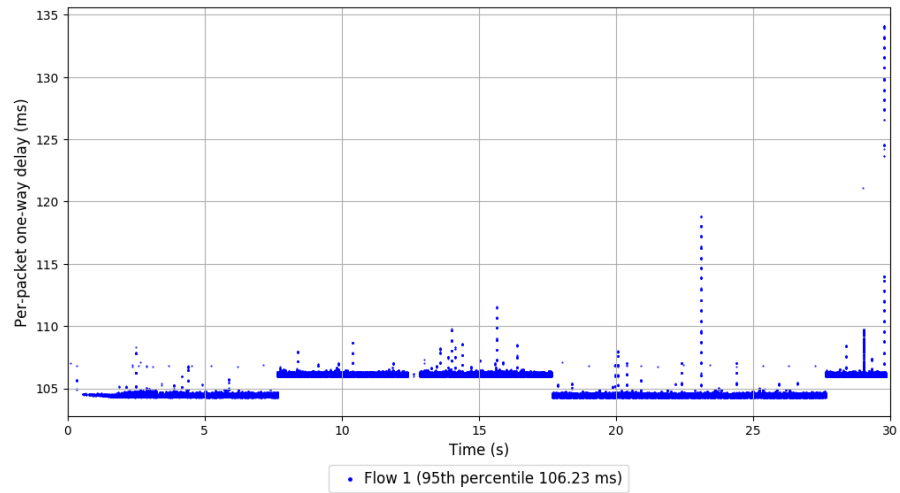
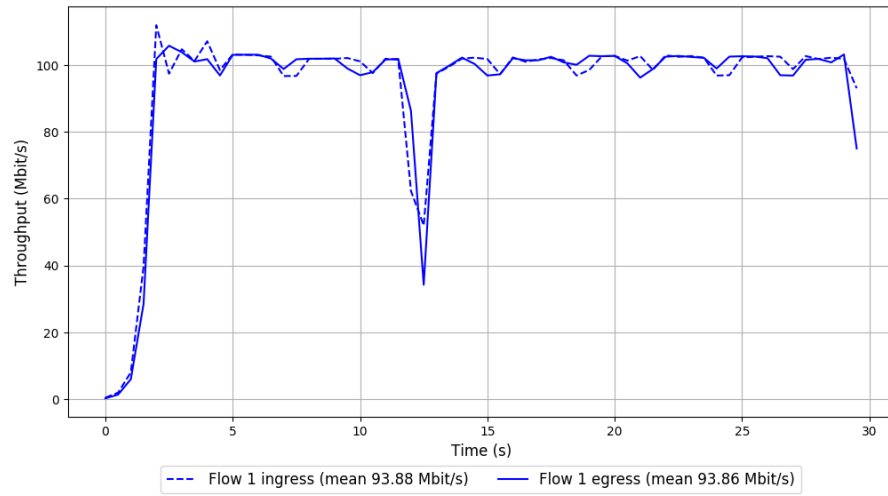
-- Flow 1:

Average throughput: 93.86 Mbit/s

95th percentile per-packet one-way delay: 106.229 ms

Loss rate: 0.77%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-16 21:25:40

End at: 2018-04-16 21:26:10

Below is generated by plot.py at 2018-04-17 01:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.61 Mbit/s

95th percentile per-packet one-way delay: 105.612 ms

Loss rate: 0.73%

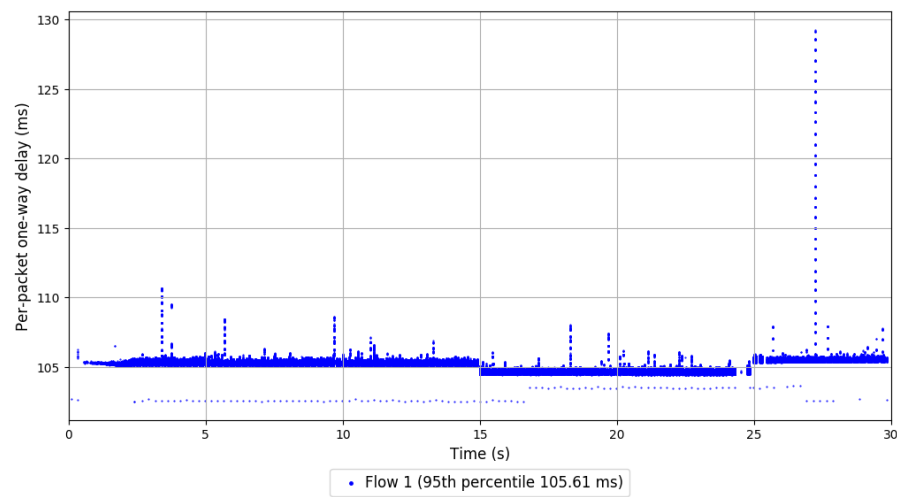
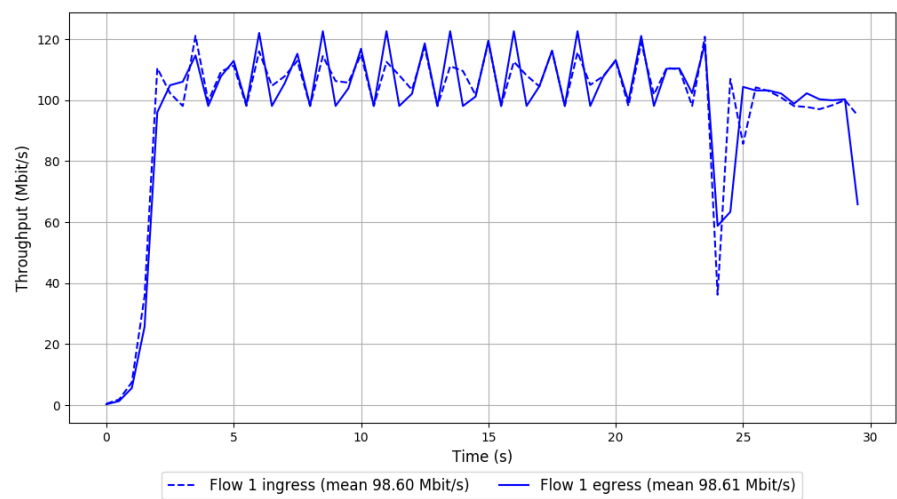
-- Flow 1:

Average throughput: 98.61 Mbit/s

95th percentile per-packet one-way delay: 105.612 ms

Loss rate: 0.73%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-16 21:39:41

End at: 2018-04-16 21:40:11

Below is generated by plot.py at 2018-04-17 01:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 110.916 ms

Loss rate: 0.74%

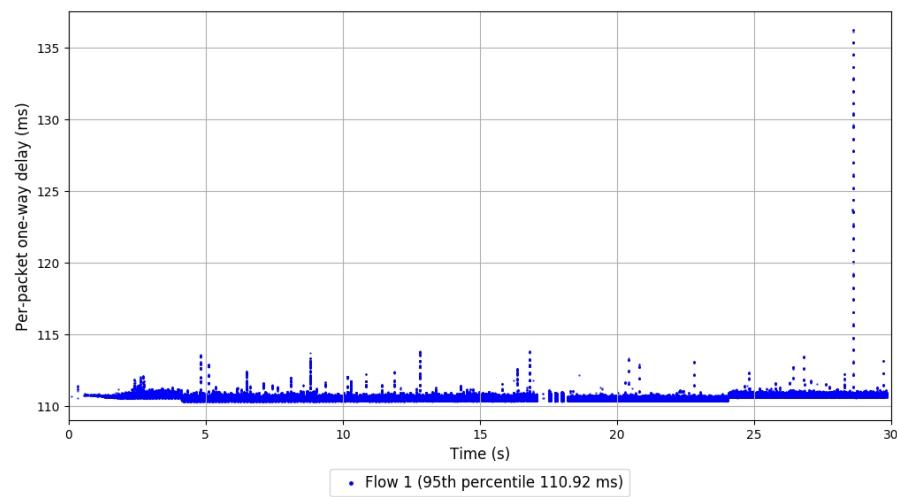
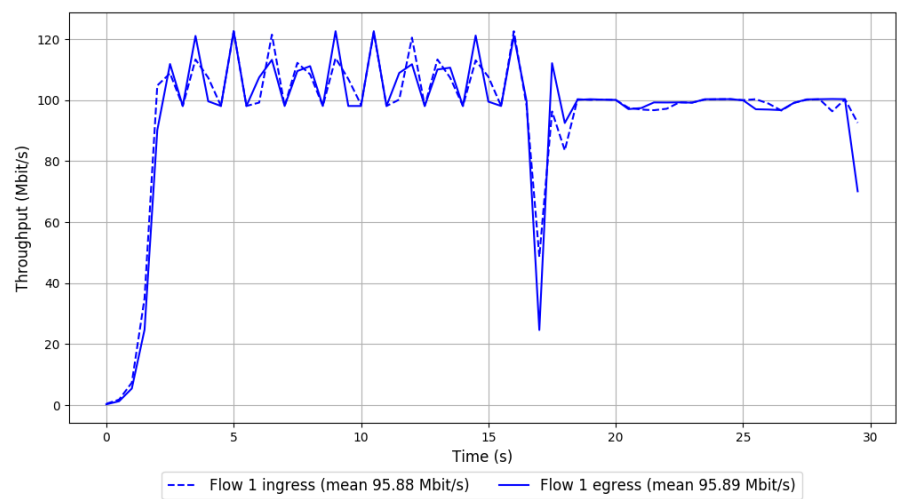
-- Flow 1:

Average throughput: 95.89 Mbit/s

95th percentile per-packet one-way delay: 110.916 ms

Loss rate: 0.74%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-16 21:53:49

End at: 2018-04-16 21:54:19

Below is generated by plot.py at 2018-04-17 01:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 111.424 ms

Loss rate: 0.77%

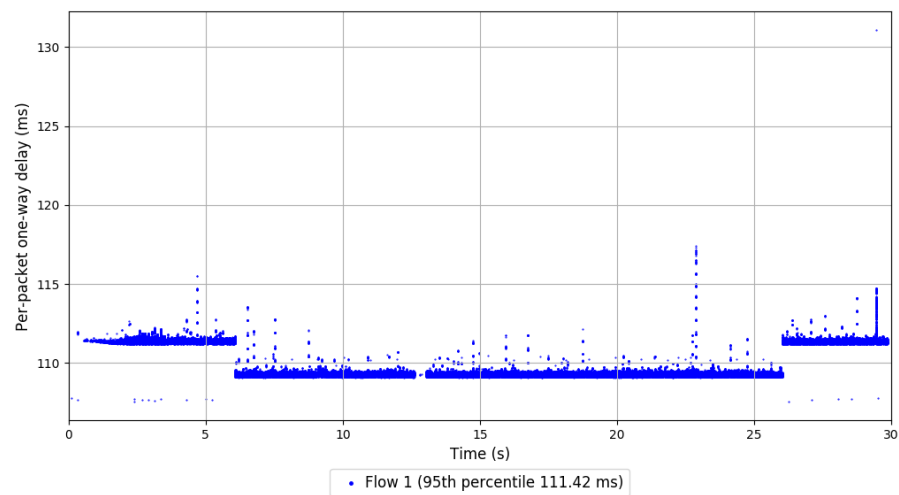
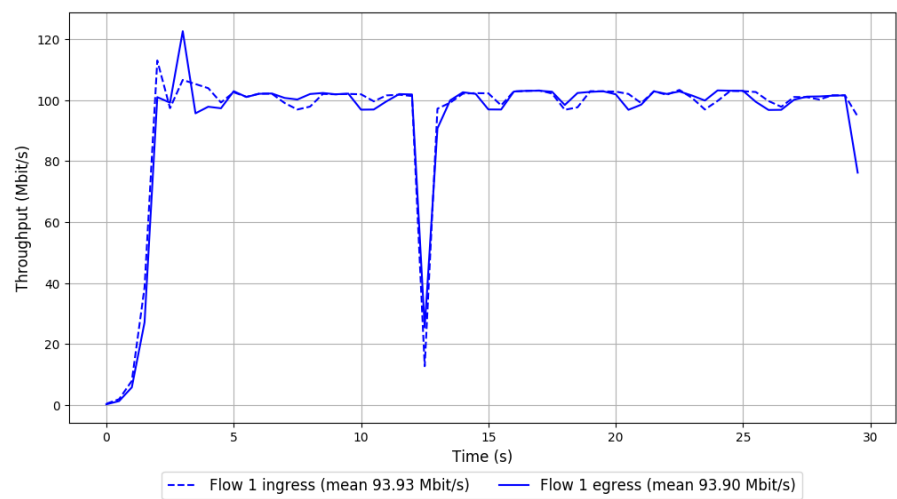
-- Flow 1:

Average throughput: 93.90 Mbit/s

95th percentile per-packet one-way delay: 111.424 ms

Loss rate: 0.77%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-16 22:07:53

End at: 2018-04-16 22:08:23

Below is generated by plot.py at 2018-04-17 01:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 110.198 ms

Loss rate: 0.88%

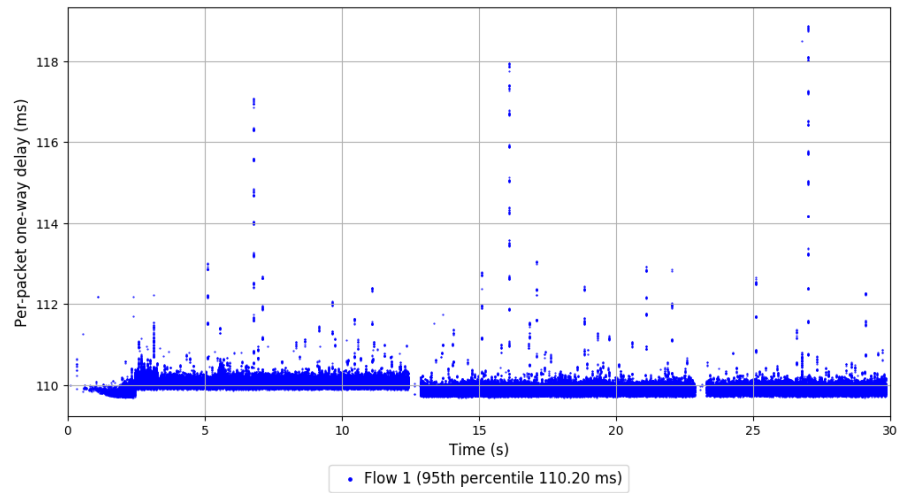
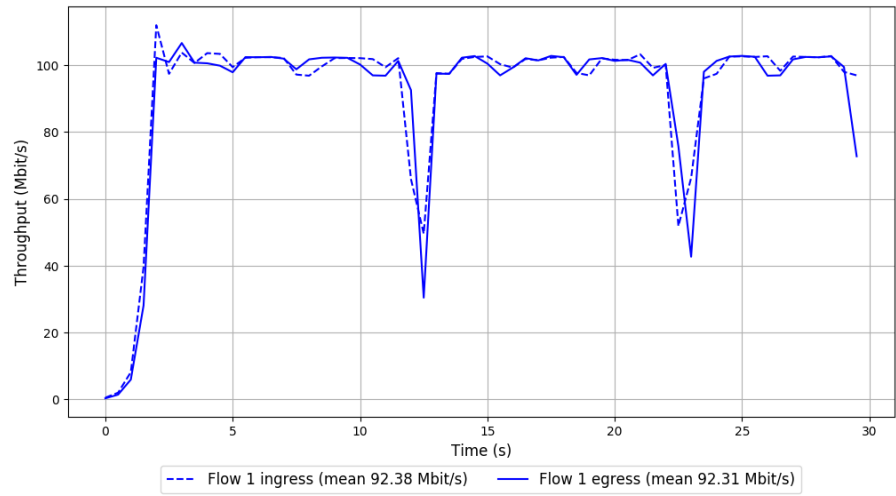
-- Flow 1:

Average throughput: 92.31 Mbit/s

95th percentile per-packet one-way delay: 110.198 ms

Loss rate: 0.88%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-16 22:21:42

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

Below is generated by plot.py at 2018-04-17 01:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 112.077 ms

Loss rate: 0.78%

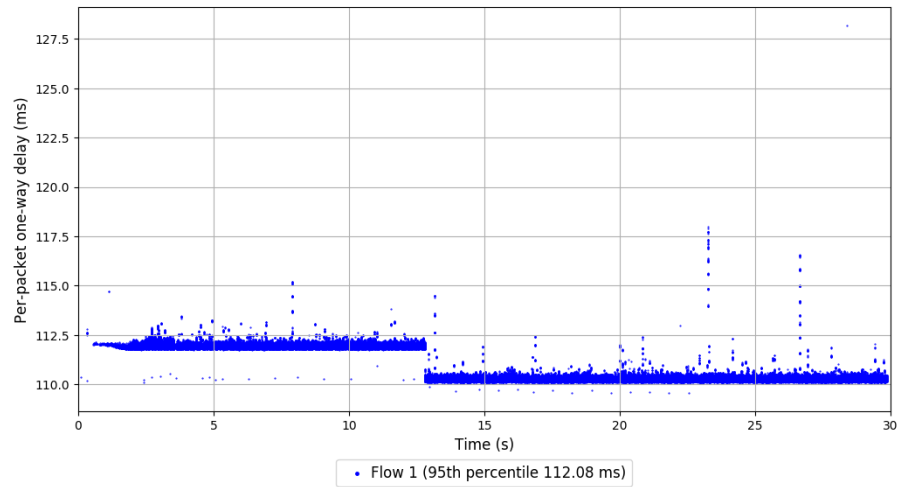
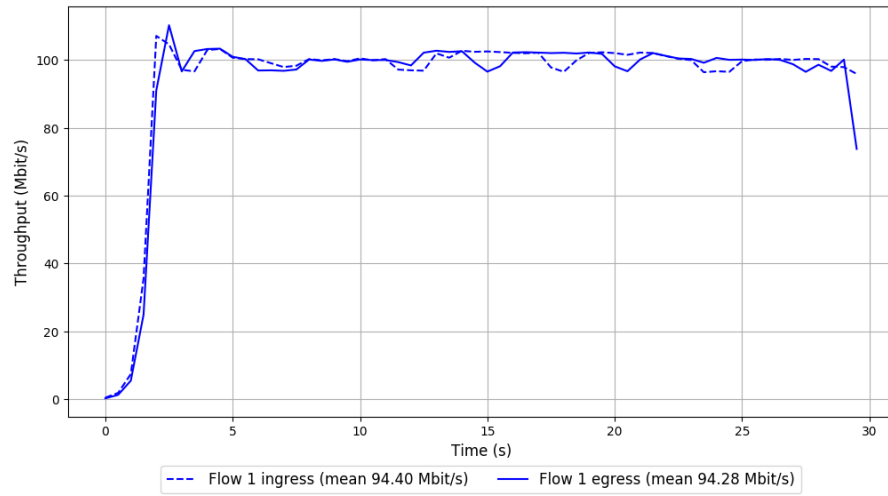
-- Flow 1:

Average throughput: 94.28 Mbit/s

95th percentile per-packet one-way delay: 112.077 ms

Loss rate: 0.78%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-16 22:35:34

End at: 2018-04-16 22:36:04

Below is generated by plot.py at 2018-04-17 01:33:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 112.205 ms

Loss rate: 0.79%

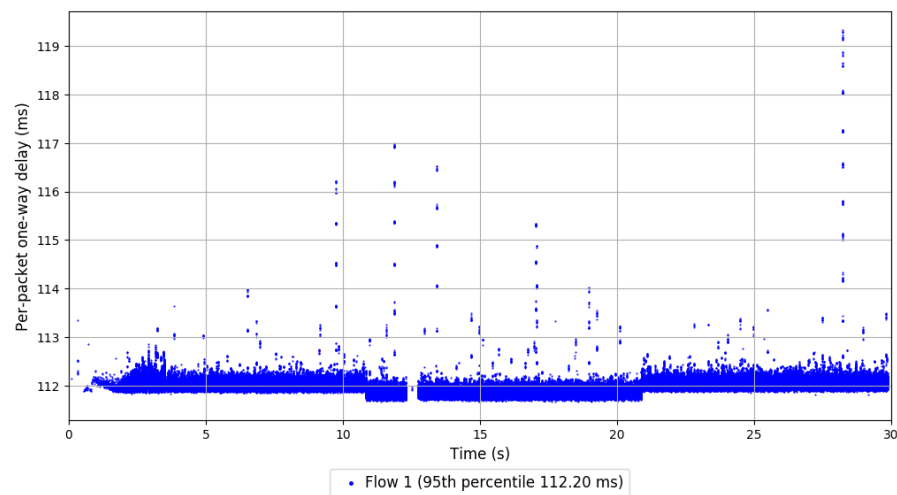
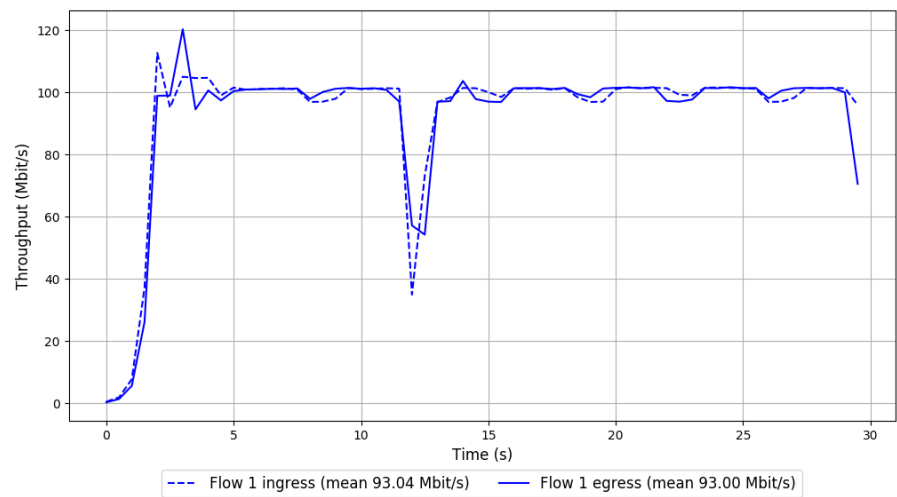
-- Flow 1:

Average throughput: 93.00 Mbit/s

95th percentile per-packet one-way delay: 112.205 ms

Loss rate: 0.79%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-16 22:49:26

End at: 2018-04-16 22:49:56

Below is generated by plot.py at 2018-04-17 01:34:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 112.443 ms

Loss rate: 0.81%

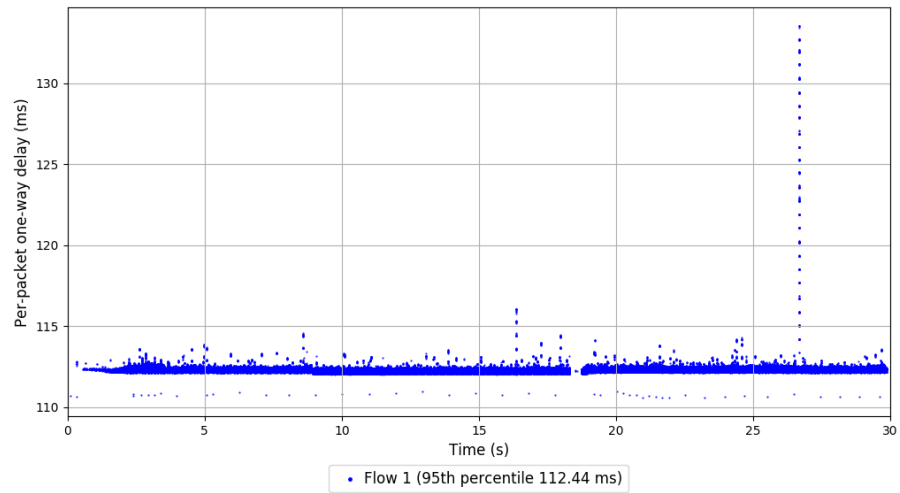
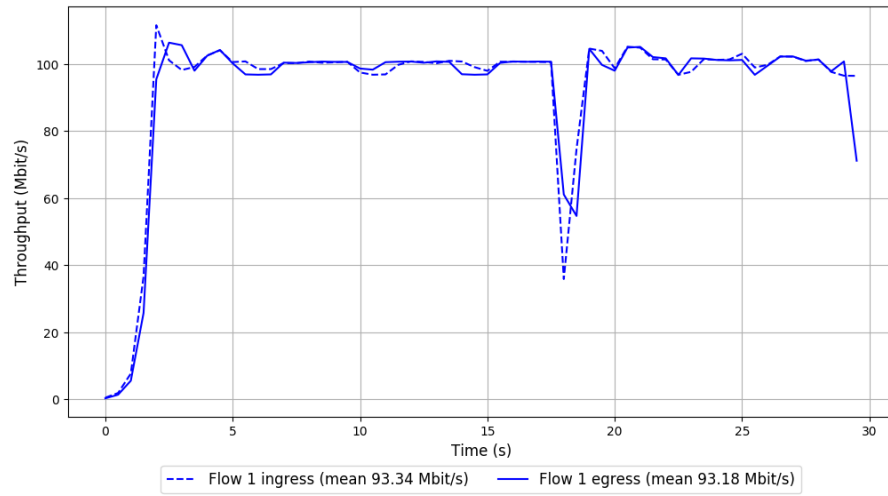
-- Flow 1:

Average throughput: 93.18 Mbit/s

95th percentile per-packet one-way delay: 112.443 ms

Loss rate: 0.81%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-16 23:03:33

End at: 2018-04-16 23:04:03

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 112.425 ms

Loss rate: 0.79%

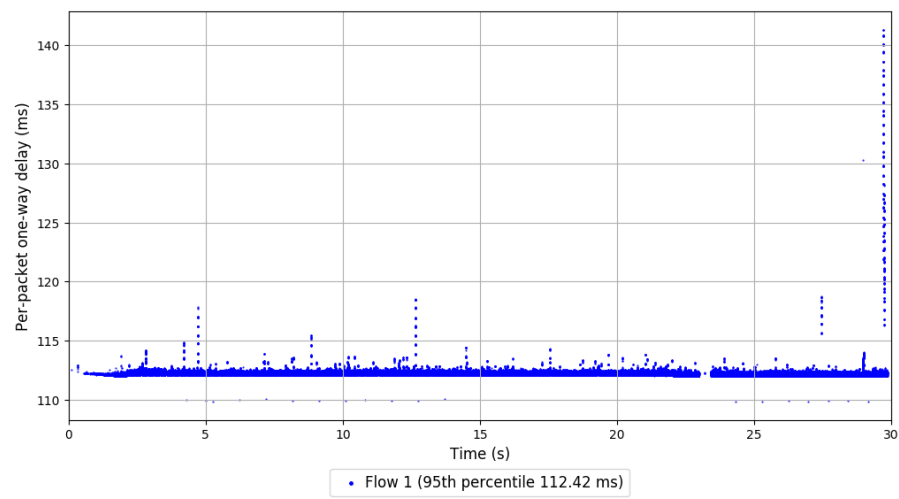
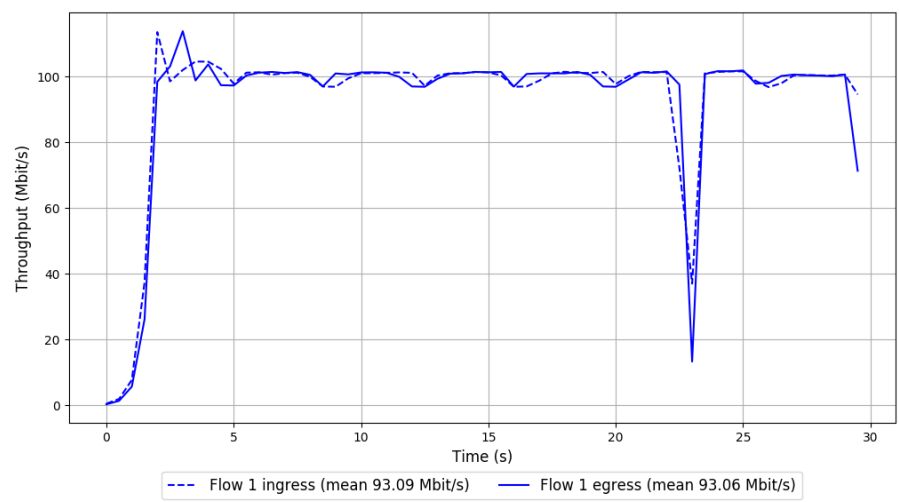
-- Flow 1:

Average throughput: 93.06 Mbit/s

95th percentile per-packet one-way delay: 112.425 ms

Loss rate: 0.79%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-16 20:48:17

End at: 2018-04-16 20:48:47

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.71 Mbit/s

95th percentile per-packet one-way delay: 104.416 ms

Loss rate: 0.76%

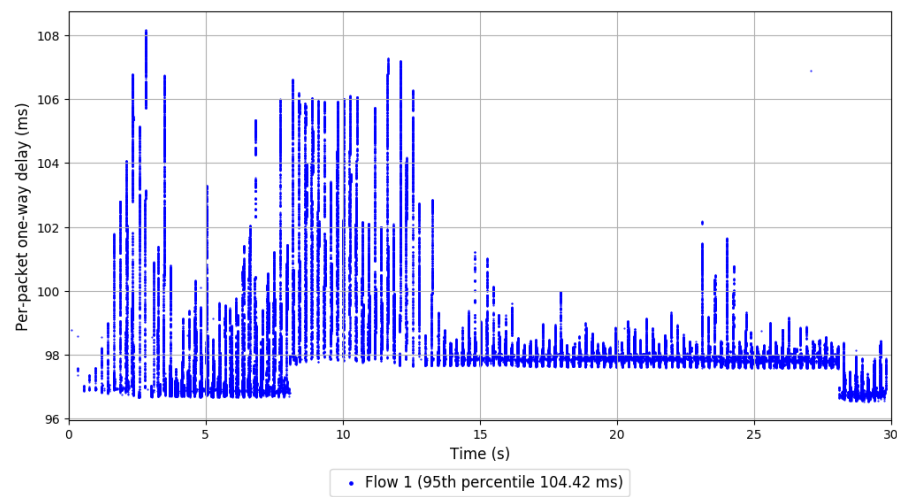
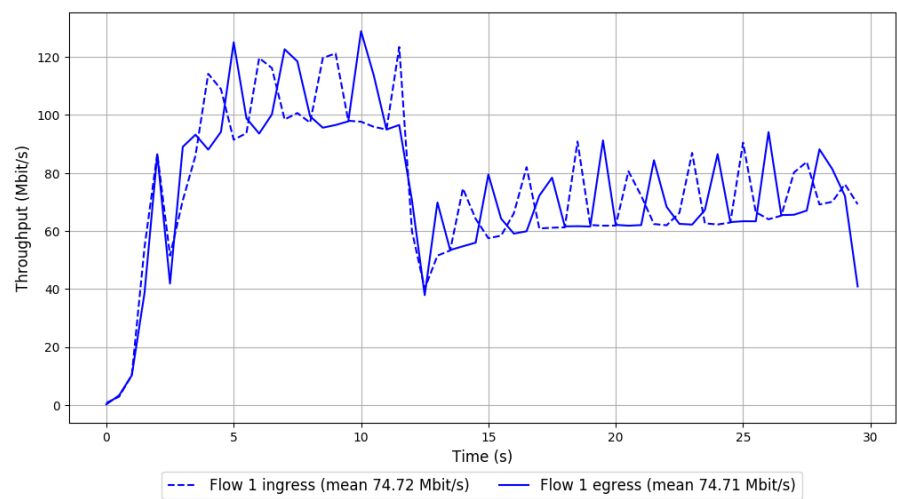
-- Flow 1:

Average throughput: 74.71 Mbit/s

95th percentile per-packet one-way delay: 104.416 ms

Loss rate: 0.76%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-16 21:02:09

End at: 2018-04-16 21:02:39

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 109.139 ms

Loss rate: 0.51%

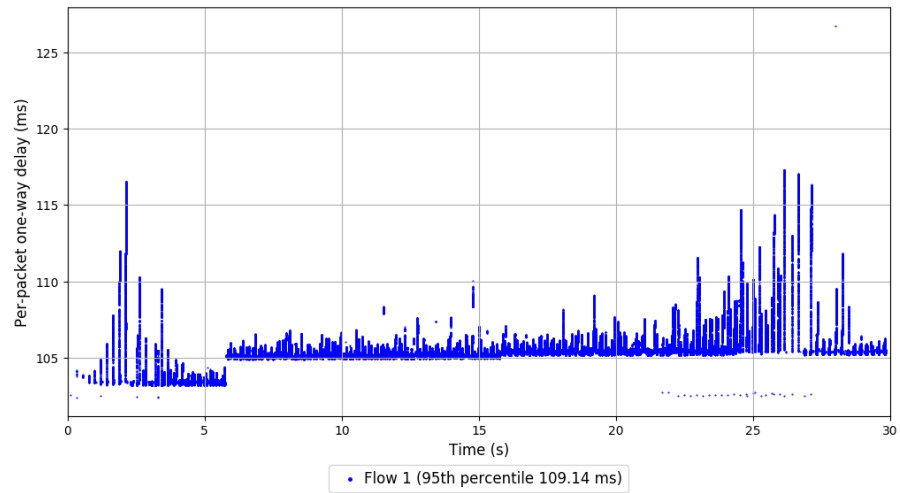
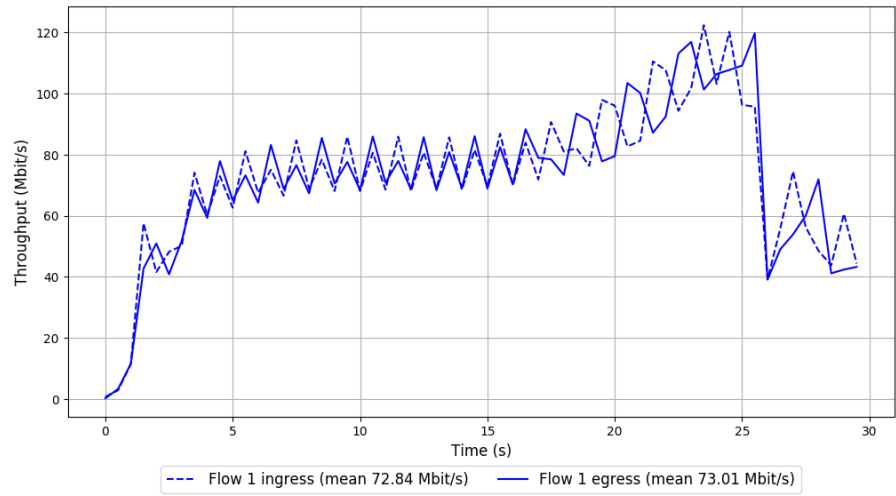
-- Flow 1:

Average throughput: 73.01 Mbit/s

95th percentile per-packet one-way delay: 109.139 ms

Loss rate: 0.51%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-16 21:16:18

End at: 2018-04-16 21:16:48

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.55 Mbit/s

95th percentile per-packet one-way delay: 108.107 ms

Loss rate: 0.91%

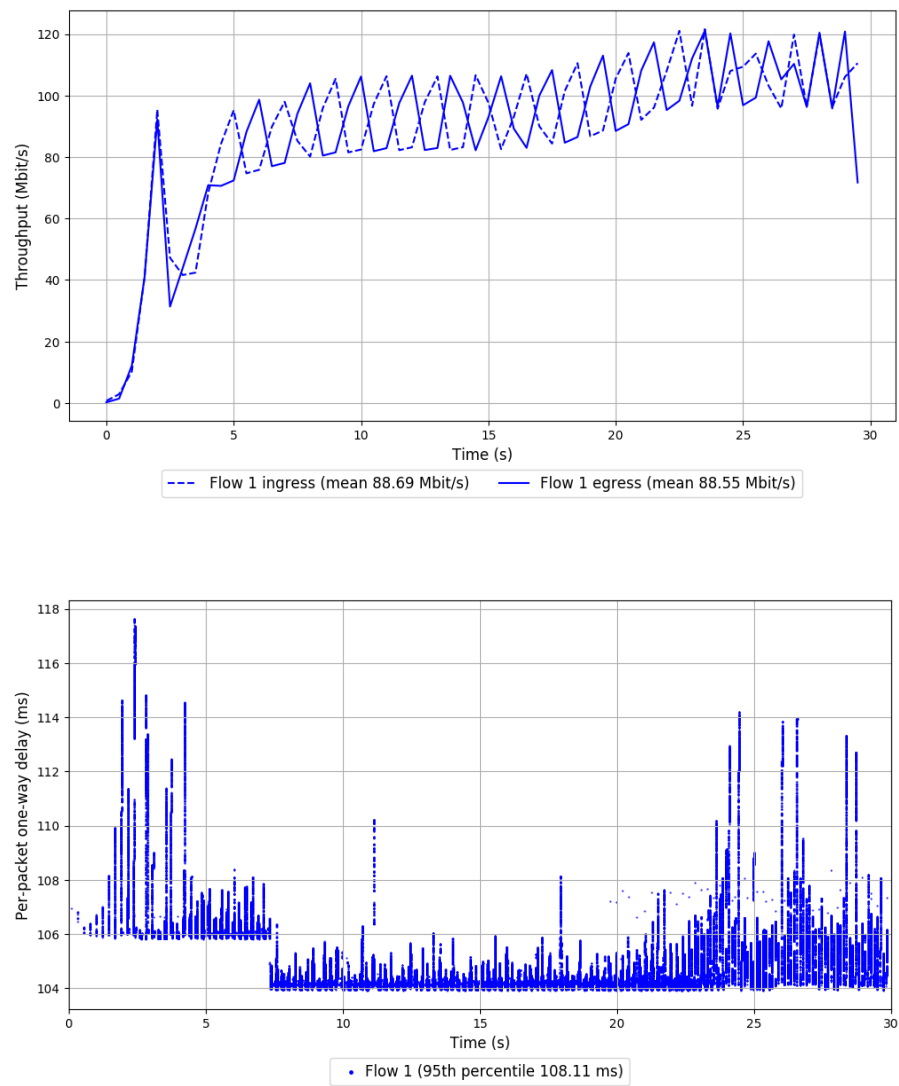
-- Flow 1:

Average throughput: 88.55 Mbit/s

95th percentile per-packet one-way delay: 108.107 ms

Loss rate: 0.91%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-16 21:30:15

End at: 2018-04-16 21:30:45

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.79 Mbit/s

95th percentile per-packet one-way delay: 115.793 ms

Loss rate: 1.03%

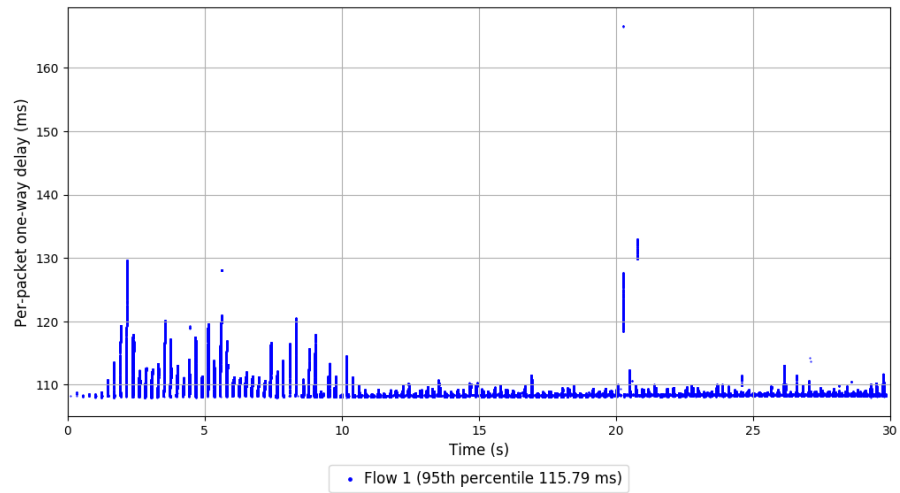
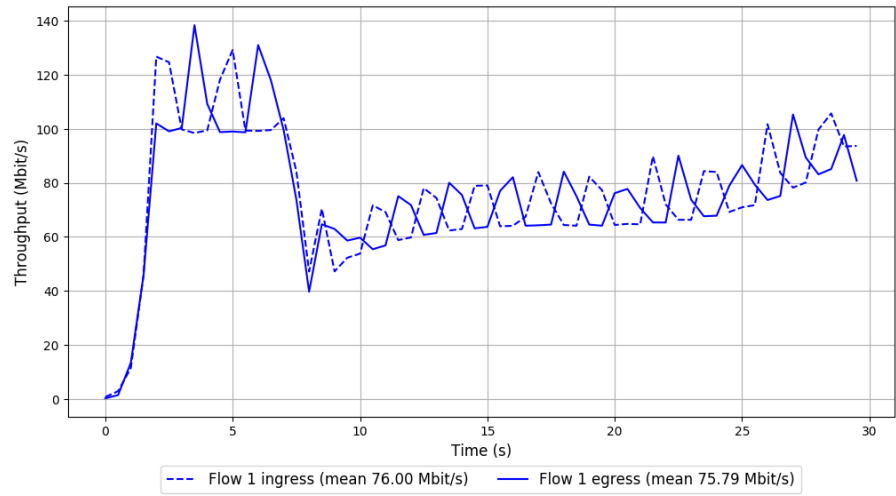
-- Flow 1:

Average throughput: 75.79 Mbit/s

95th percentile per-packet one-way delay: 115.793 ms

Loss rate: 1.03%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-16 21:44:17

End at: 2018-04-16 21:44:47

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 116.011 ms

Loss rate: 0.07%

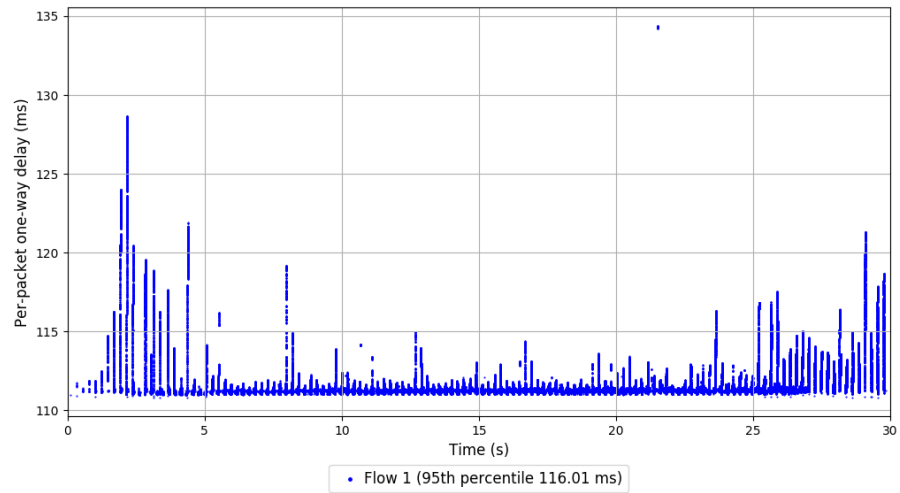
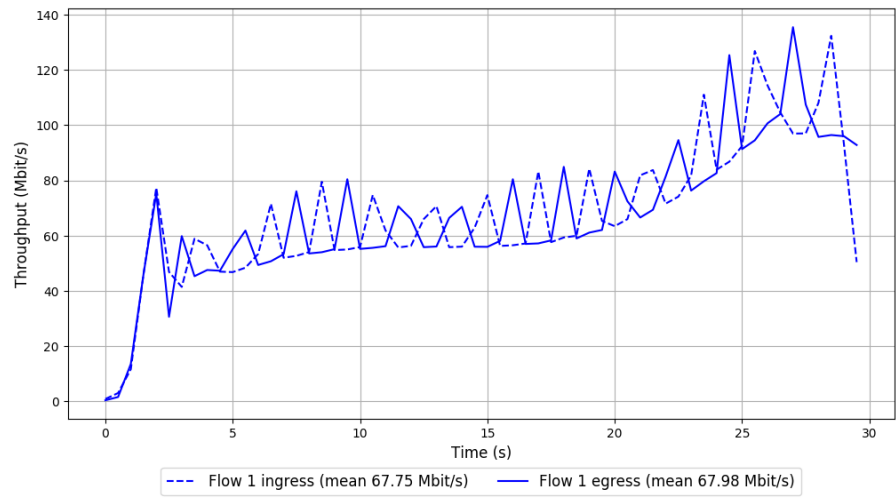
-- Flow 1:

Average throughput: 67.98 Mbit/s

95th percentile per-packet one-way delay: 116.011 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-16 21:58:27

End at: 2018-04-16 21:58:57

Below is generated by plot.py at 2018-04-17 01:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 113.023 ms

Loss rate: 0.80%

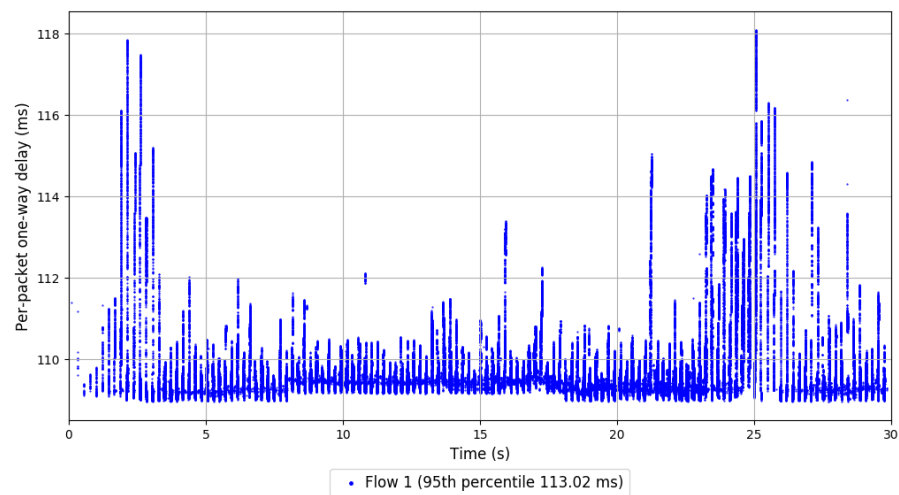
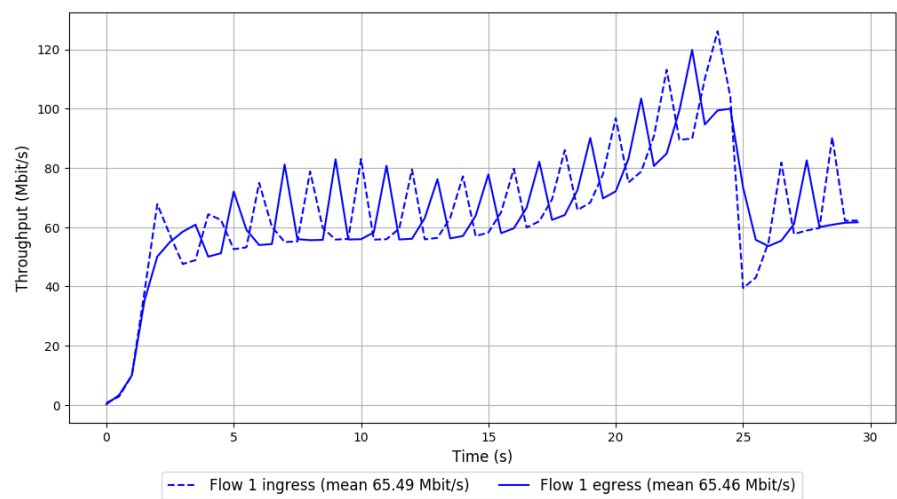
-- Flow 1:

Average throughput: 65.46 Mbit/s

95th percentile per-packet one-way delay: 113.023 ms

Loss rate: 0.80%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-16 22:12:30

End at: 2018-04-16 22:13:00

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.21 Mbit/s

95th percentile per-packet one-way delay: 117.382 ms

Loss rate: 0.44%

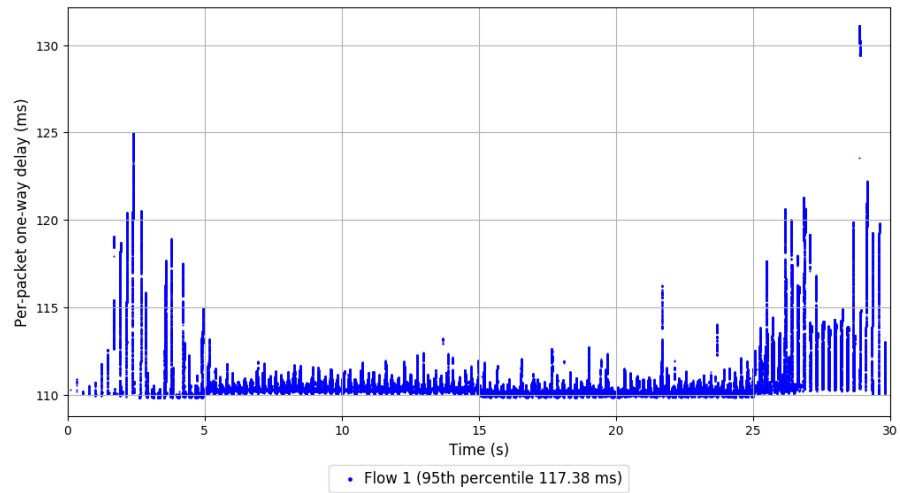
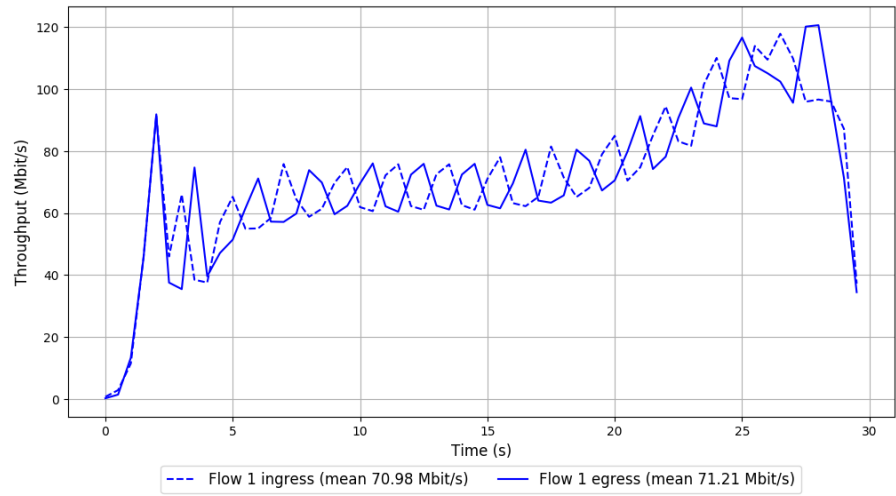
-- Flow 1:

Average throughput: 71.21 Mbit/s

95th percentile per-packet one-way delay: 117.382 ms

Loss rate: 0.44%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-16 22:26:18

End at: 2018-04-16 22:26:48

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 120.030 ms

Loss rate: 1.30%

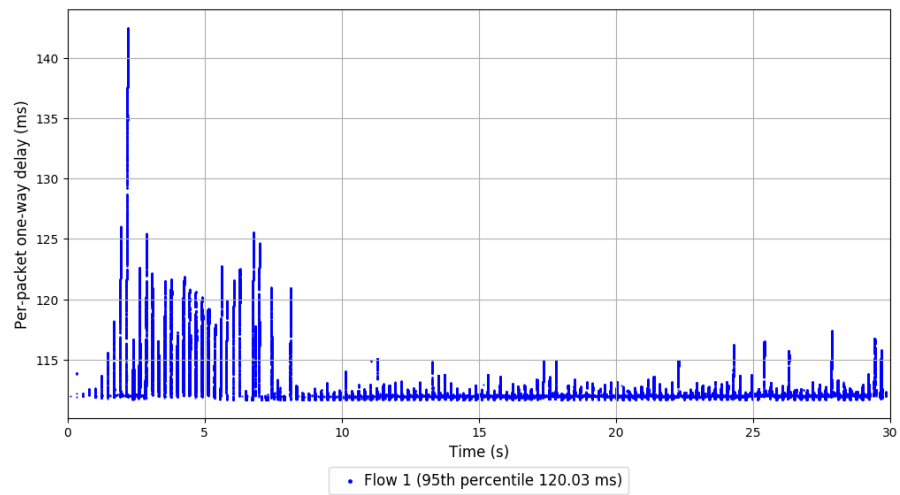
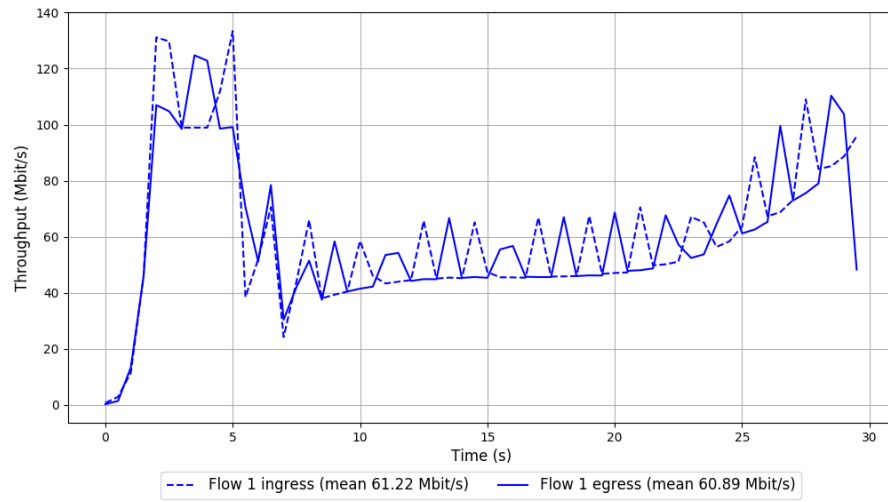
-- Flow 1:

Average throughput: 60.89 Mbit/s

95th percentile per-packet one-way delay: 120.030 ms

Loss rate: 1.30%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-16 22:40:02

End at: 2018-04-16 22:40:32

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 116.894 ms

Loss rate: 1.29%

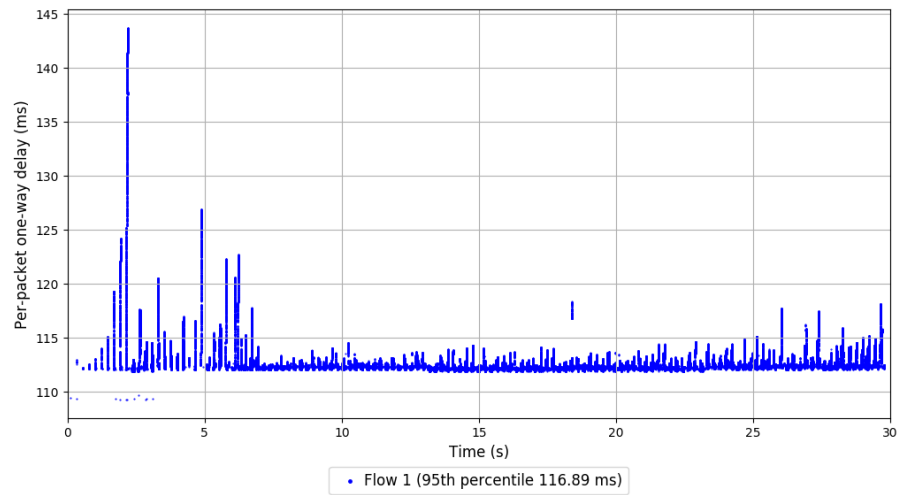
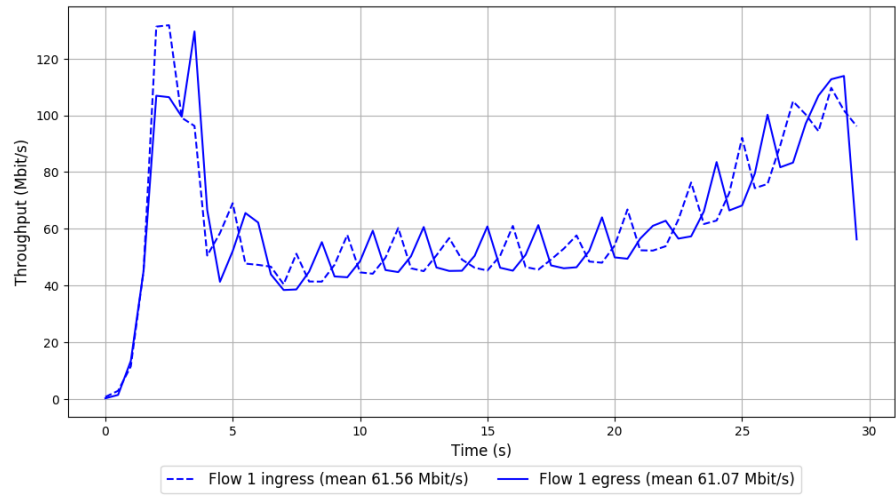
-- Flow 1:

Average throughput: 61.07 Mbit/s

95th percentile per-packet one-way delay: 116.894 ms

Loss rate: 1.29%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-16 22:53:59

End at: 2018-04-16 22:54:29

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 118.990 ms

Loss rate: 1.23%

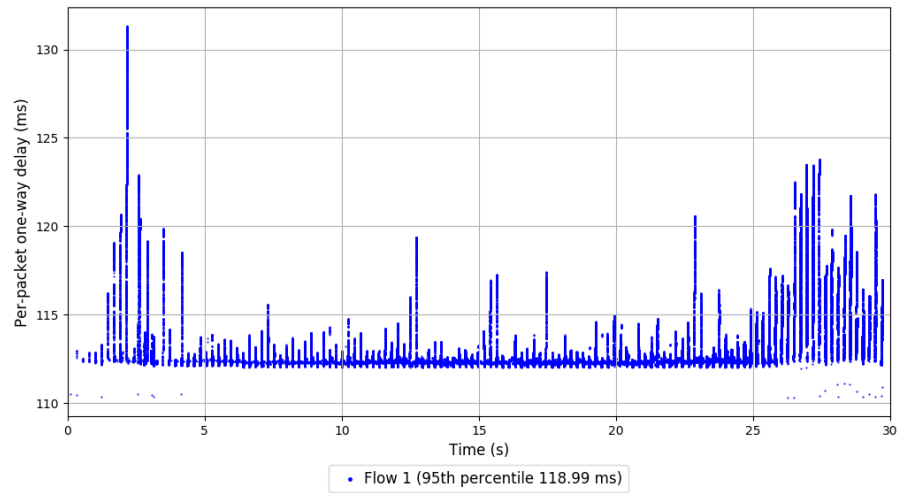
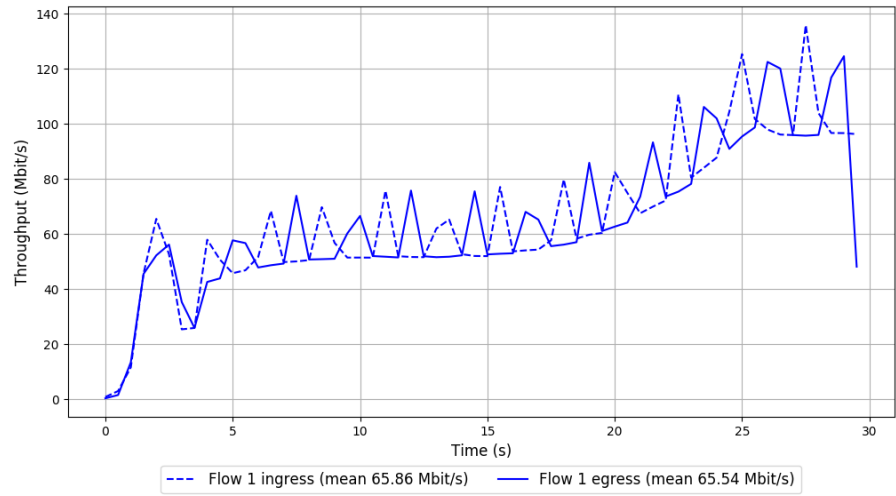
-- Flow 1:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 118.990 ms

Loss rate: 1.23%

Run 10: Report of TCP Cubic — Data Link

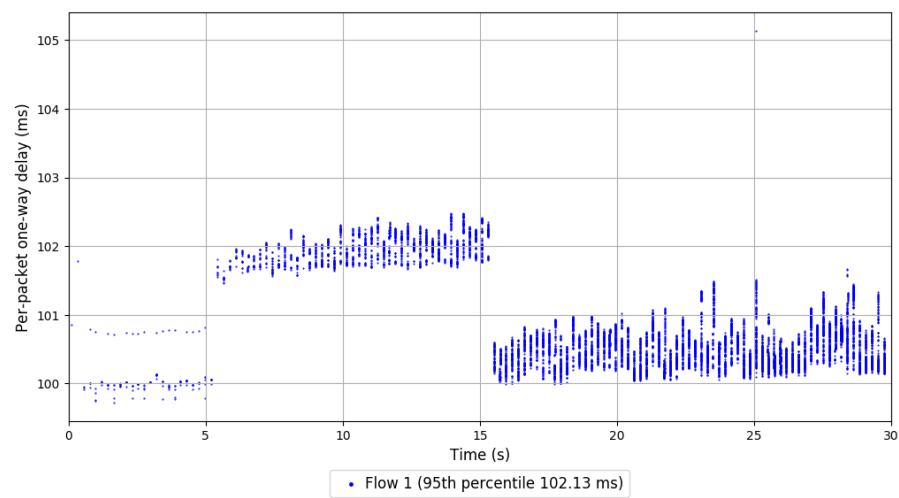
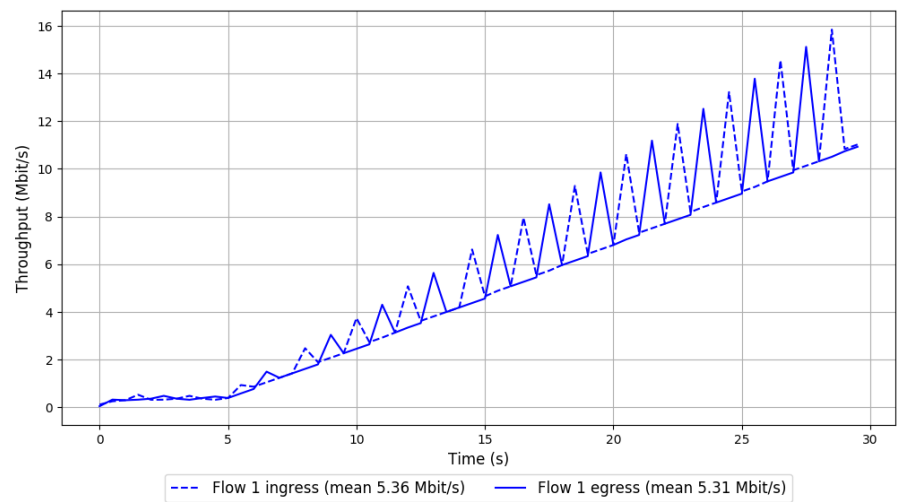


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-16 20:56:00
End at: 2018-04-16 20:56:30

# Below is generated by plot.py at 2018-04-17 01:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 102.134 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 5.31 Mbit/s
95th percentile per-packet one-way delay: 102.134 ms
Loss rate: 1.73%
```


Run 1: Report of LEDBAT — Data Link

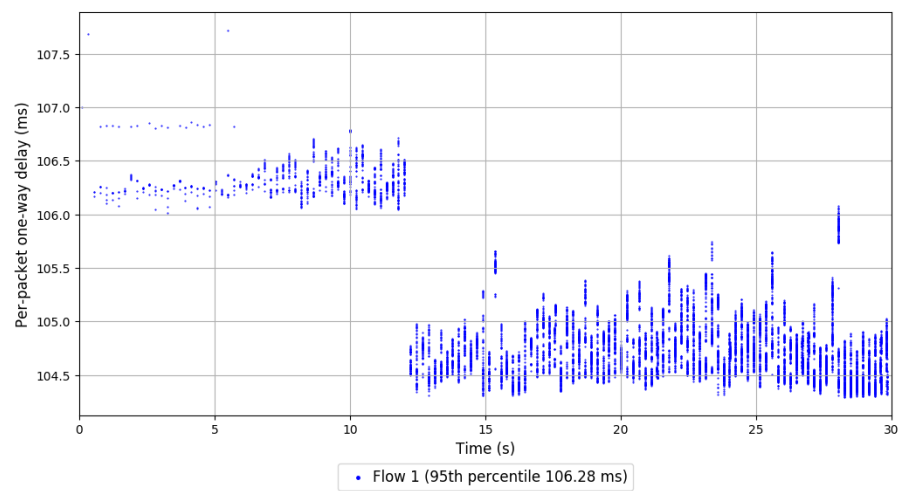
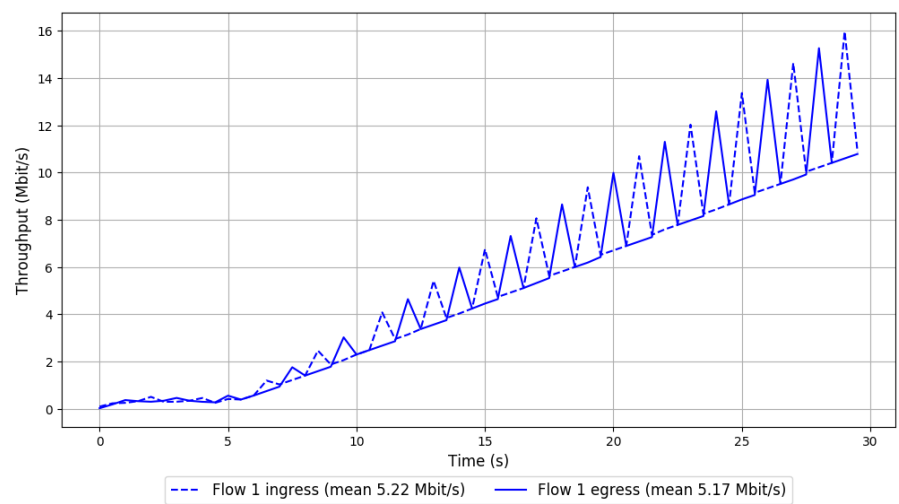


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-16 21:10:13
End at: 2018-04-16 21:10:43

# Below is generated by plot.py at 2018-04-17 01:35:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 106.279 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 5.17 Mbit/s
95th percentile per-packet one-way delay: 106.279 ms
Loss rate: 1.75%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-16 21:24:15

End at: 2018-04-16 21:24:45

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 105.403 ms

Loss rate: 1.51%

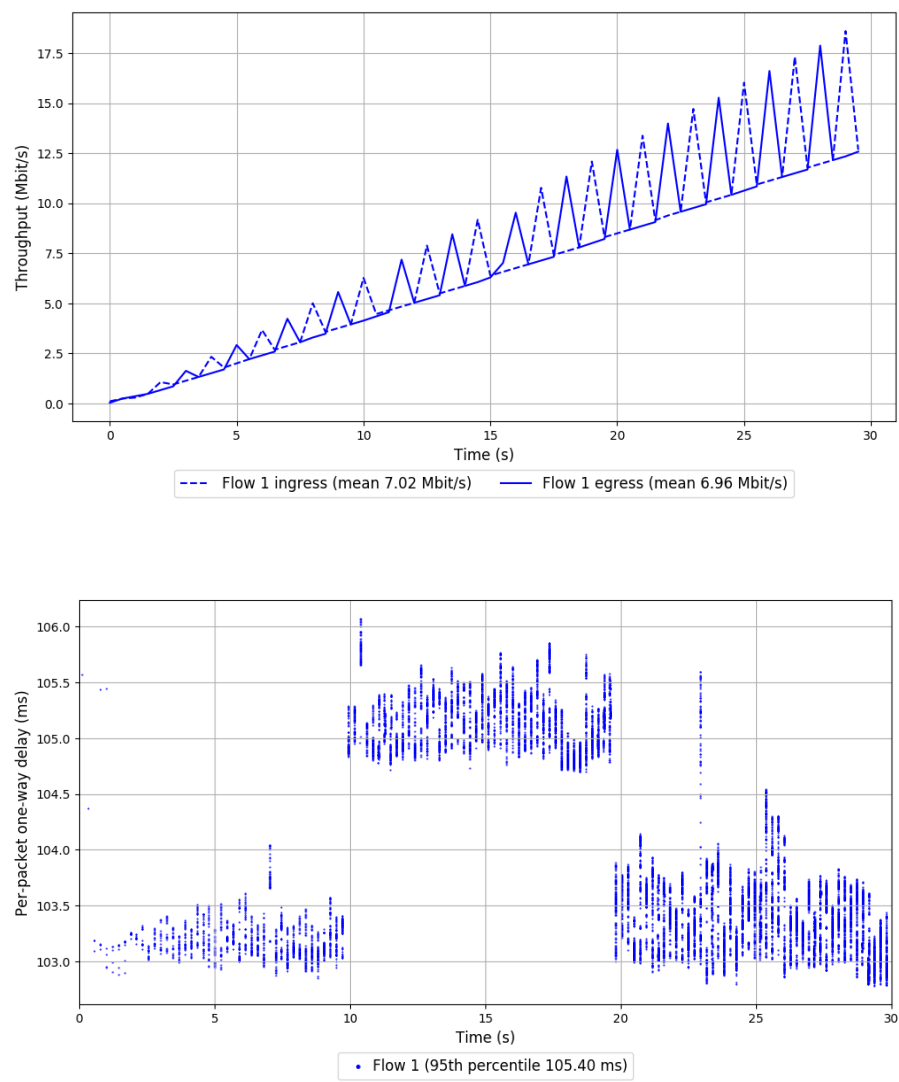
-- Flow 1:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 105.403 ms

Loss rate: 1.51%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-16 21:38:17

End at: 2018-04-16 21:38:47

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 111.457 ms

Loss rate: 1.51%

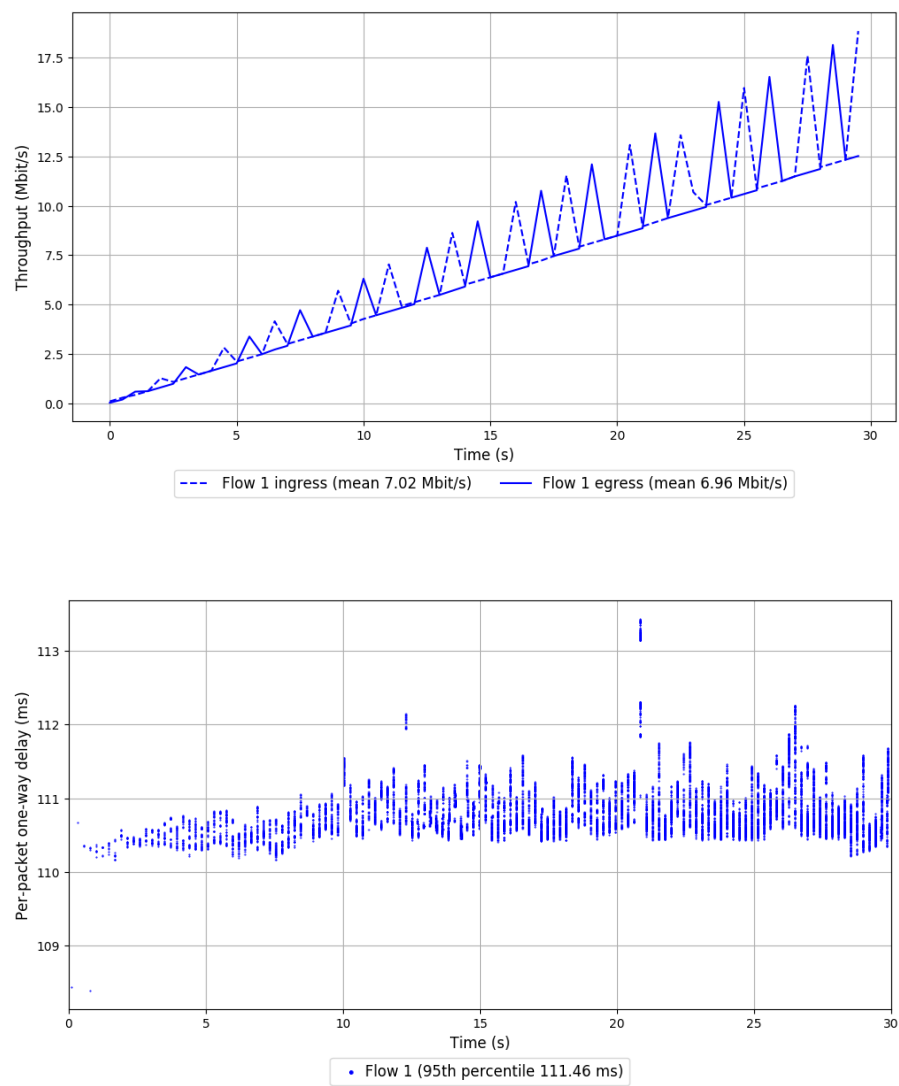
-- Flow 1:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 111.457 ms

Loss rate: 1.51%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-16 21:52:23

End at: 2018-04-16 21:52:53

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 1.50%

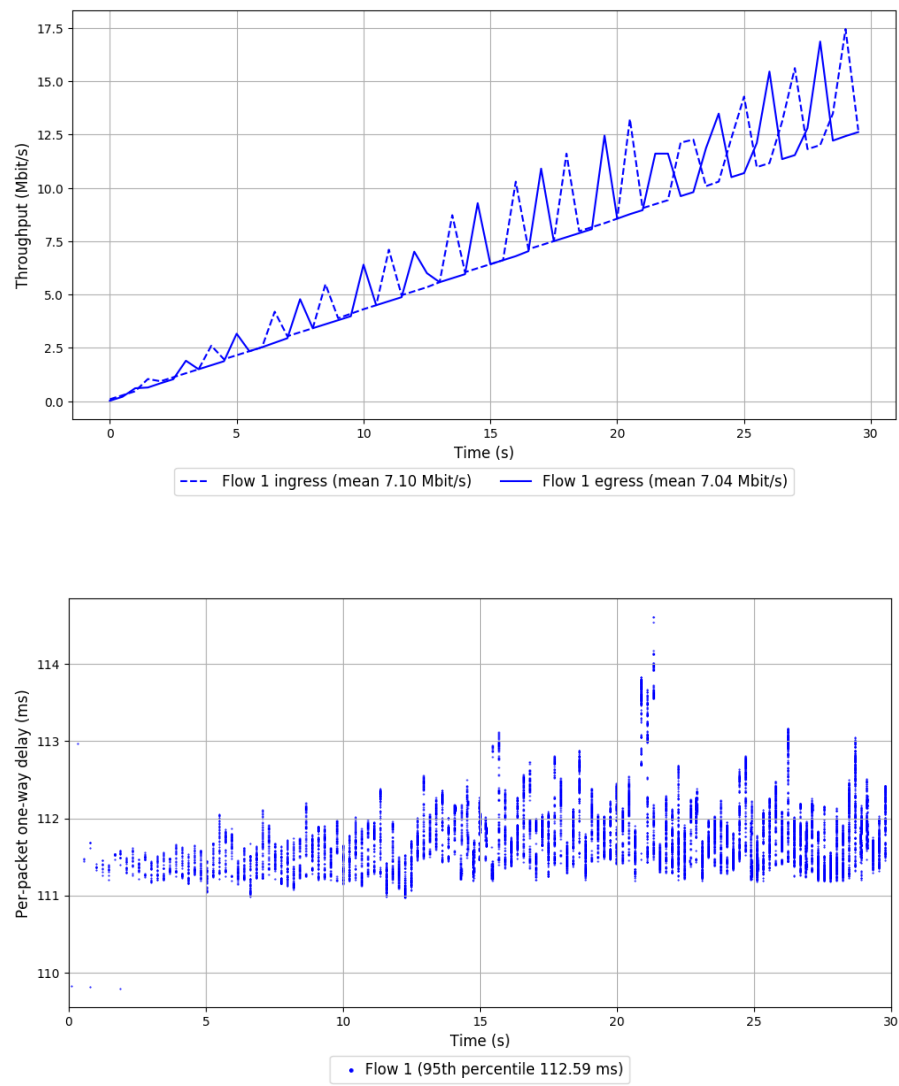
-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 112.591 ms

Loss rate: 1.50%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-16 22:06:28

End at: 2018-04-16 22:06:58

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 110.750 ms

Loss rate: 1.50%

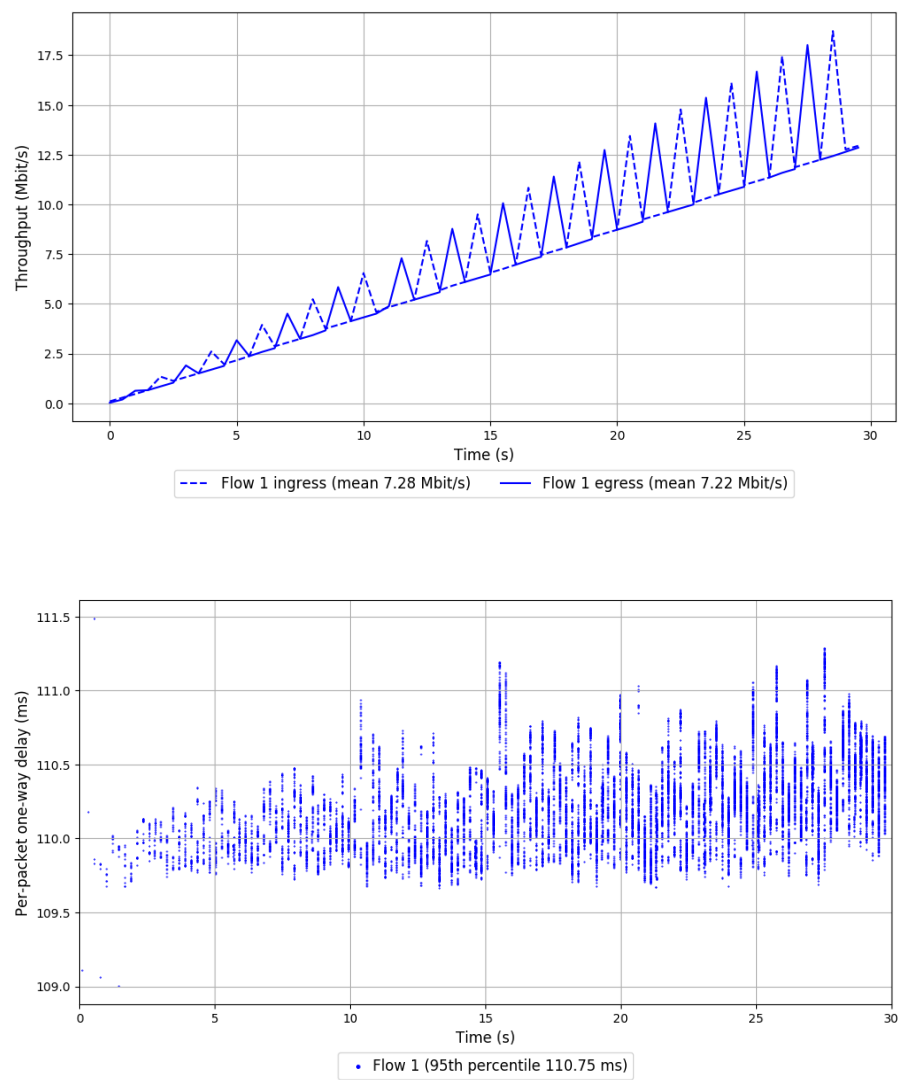
-- Flow 1:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 110.750 ms

Loss rate: 1.50%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-16 22:20:17

End at: 2018-04-16 22:20:48

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 112.742 ms

Loss rate: 1.50%

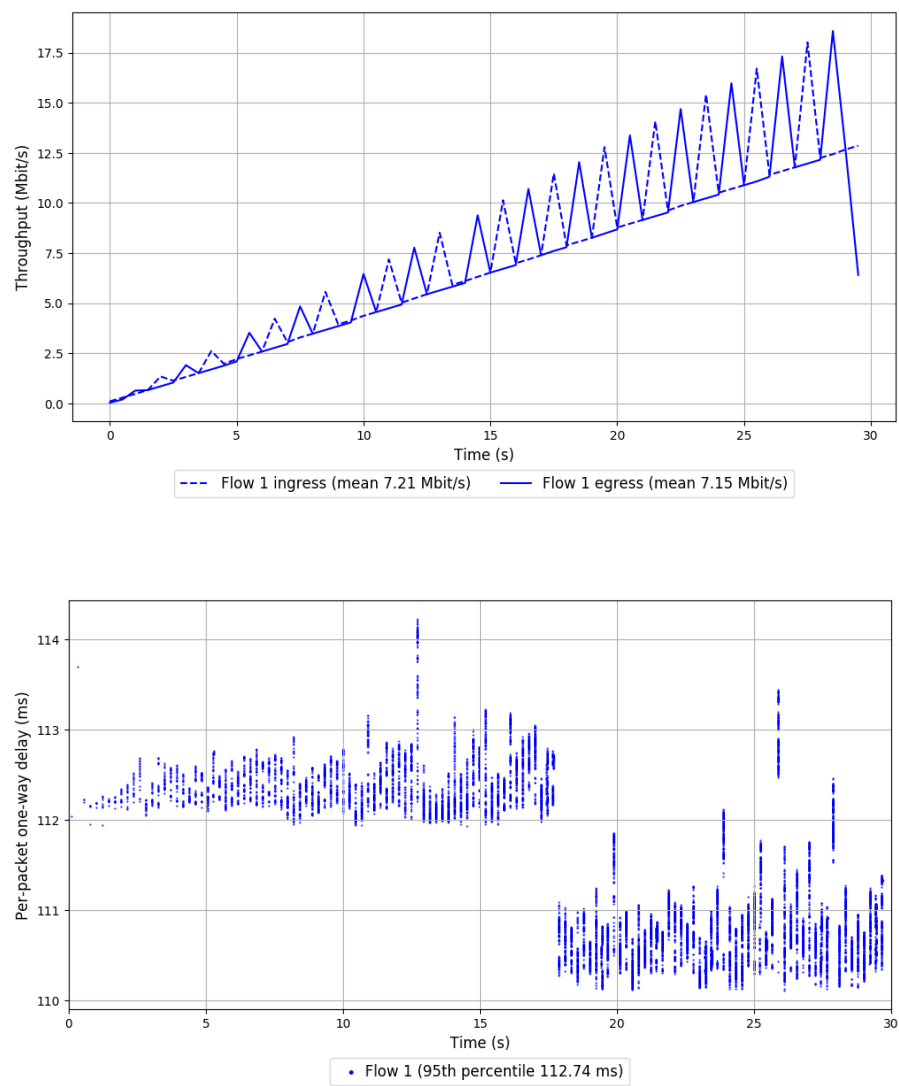
-- Flow 1:

Average throughput: 7.15 Mbit/s

95th percentile per-packet one-way delay: 112.742 ms

Loss rate: 1.50%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-16 22:34:09

End at: 2018-04-16 22:34:39

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 112.888 ms

Loss rate: 1.50%

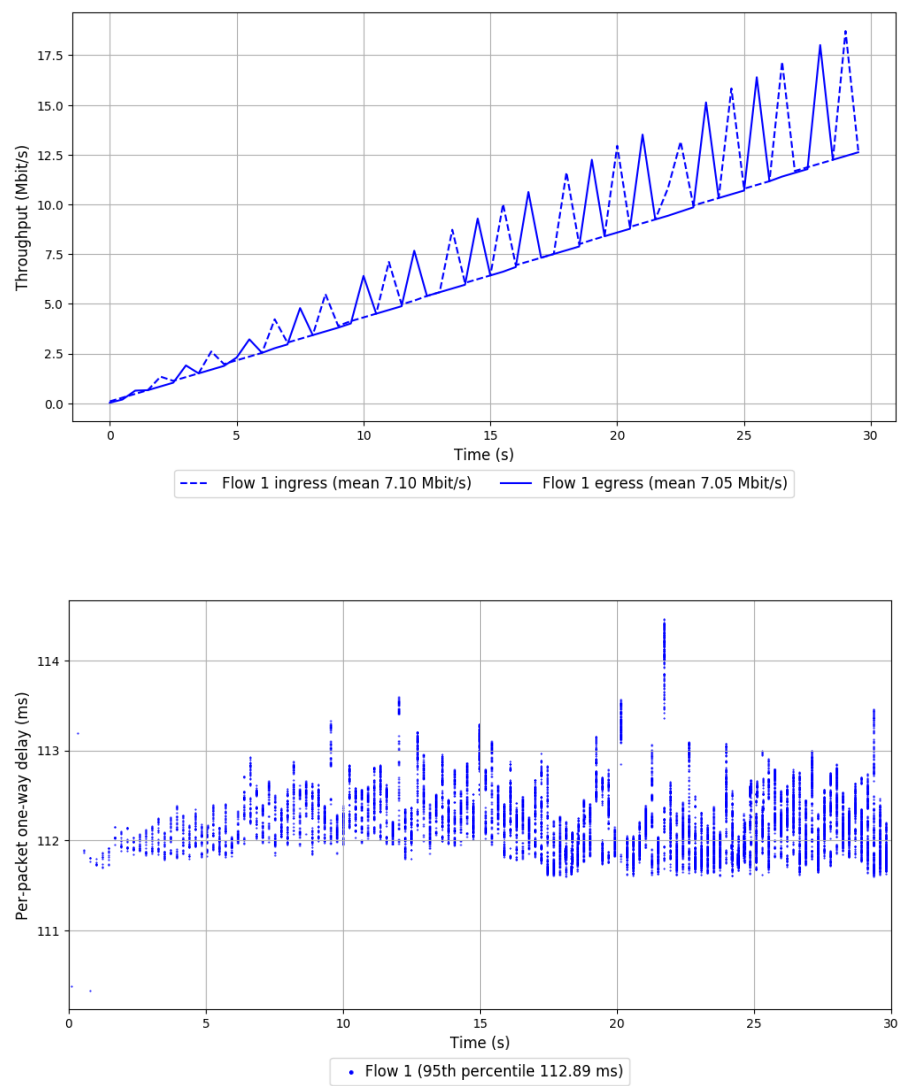
-- Flow 1:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 112.888 ms

Loss rate: 1.50%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-16 22:48:02

End at: 2018-04-16 22:48:32

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 113.306 ms

Loss rate: 1.49%

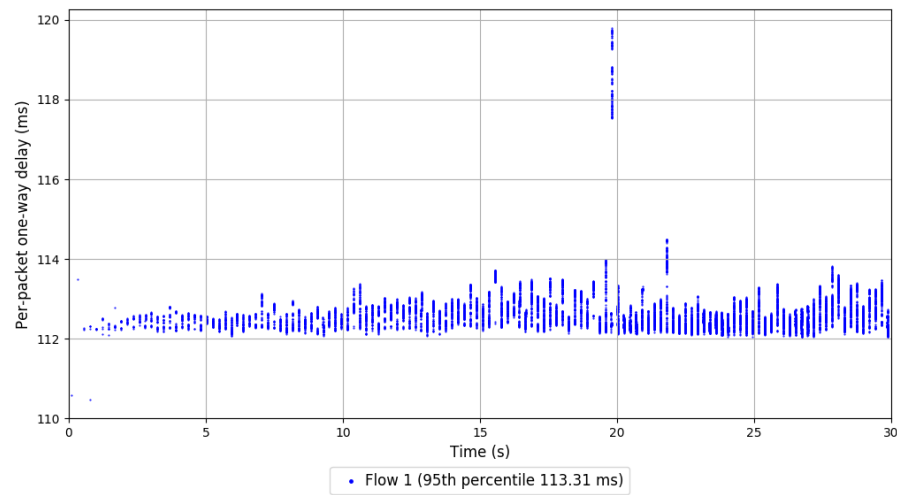
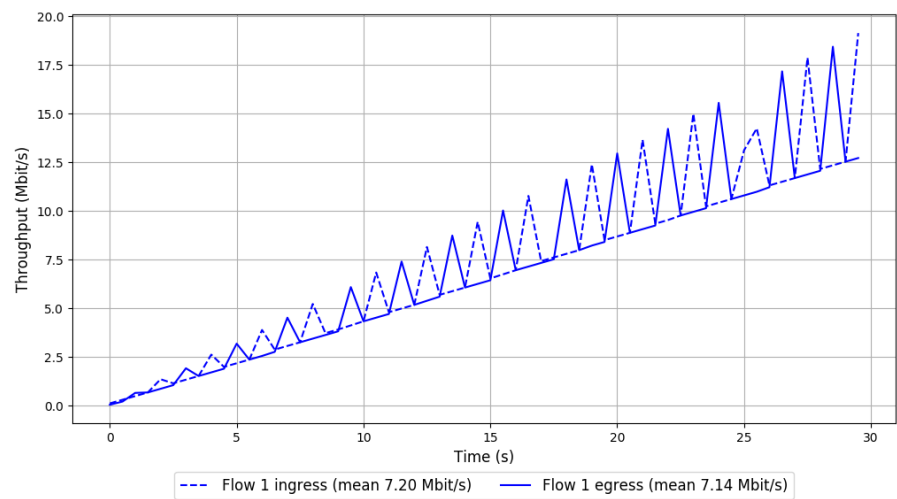
-- Flow 1:

Average throughput: 7.14 Mbit/s

95th percentile per-packet one-way delay: 113.306 ms

Loss rate: 1.49%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-16 23:02:06

End at: 2018-04-16 23:02:36

Below is generated by plot.py at 2018-04-17 01:35:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 113.500 ms

Loss rate: 1.50%

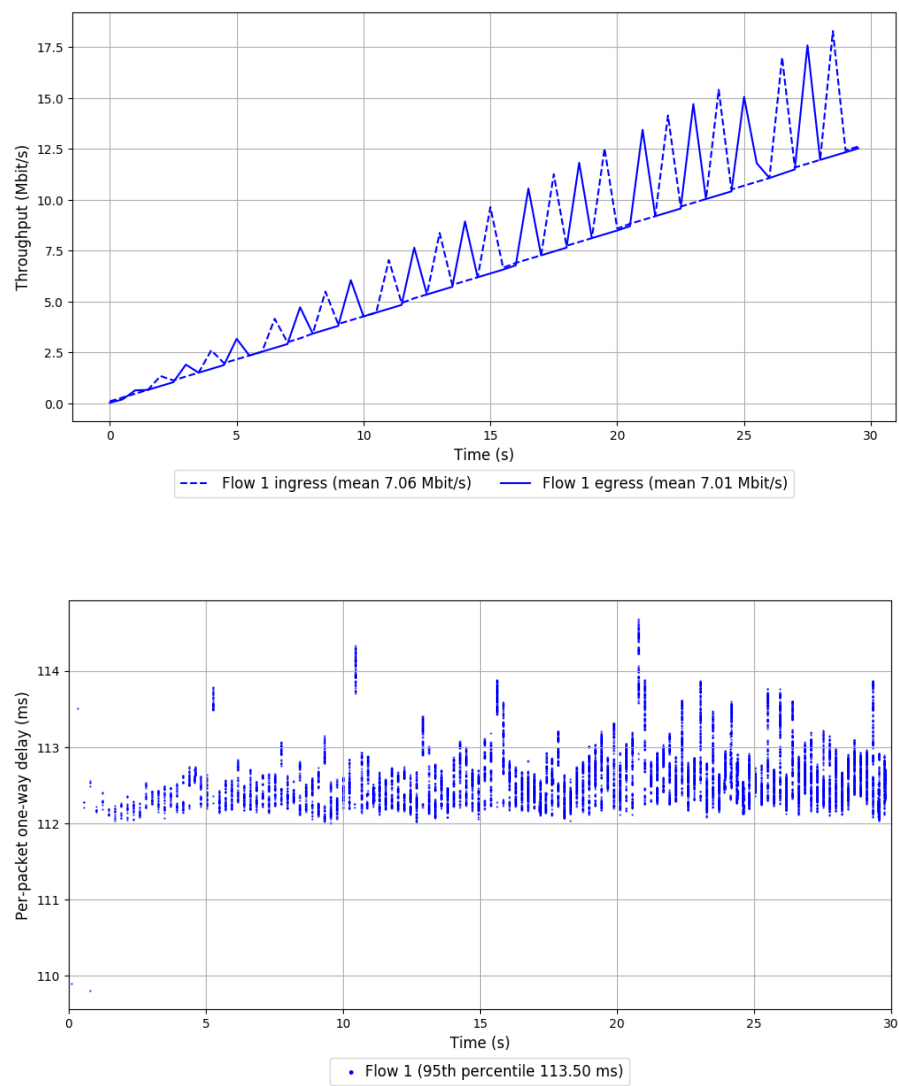
-- Flow 1:

Average throughput: 7.01 Mbit/s

95th percentile per-packet one-way delay: 113.500 ms

Loss rate: 1.50%

Run 10: Report of LEDBAT — Data Link

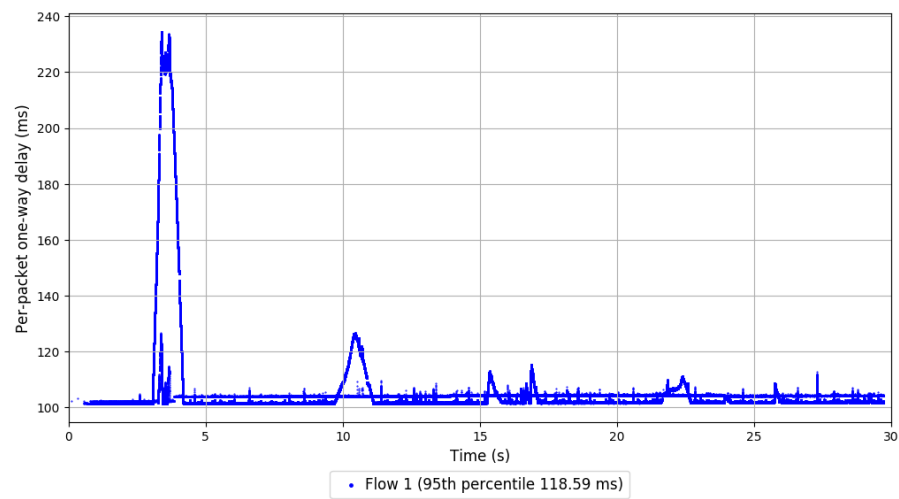
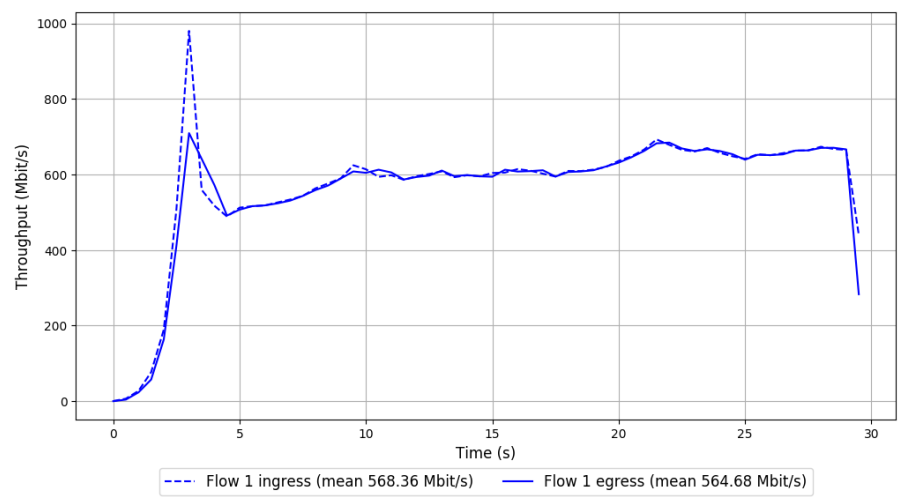


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-04-16 20:58:11
End at: 2018-04-16 20:58:41

# Below is generated by plot.py at 2018-04-17 01:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 564.68 Mbit/s
95th percentile per-packet one-way delay: 118.590 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 564.68 Mbit/s
95th percentile per-packet one-way delay: 118.590 ms
Loss rate: 1.39%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-16 21:12:23

End at: 2018-04-16 21:12:54

Below is generated by plot.py at 2018-04-17 01:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.88 Mbit/s

95th percentile per-packet one-way delay: 249.113 ms

Loss rate: 4.27%

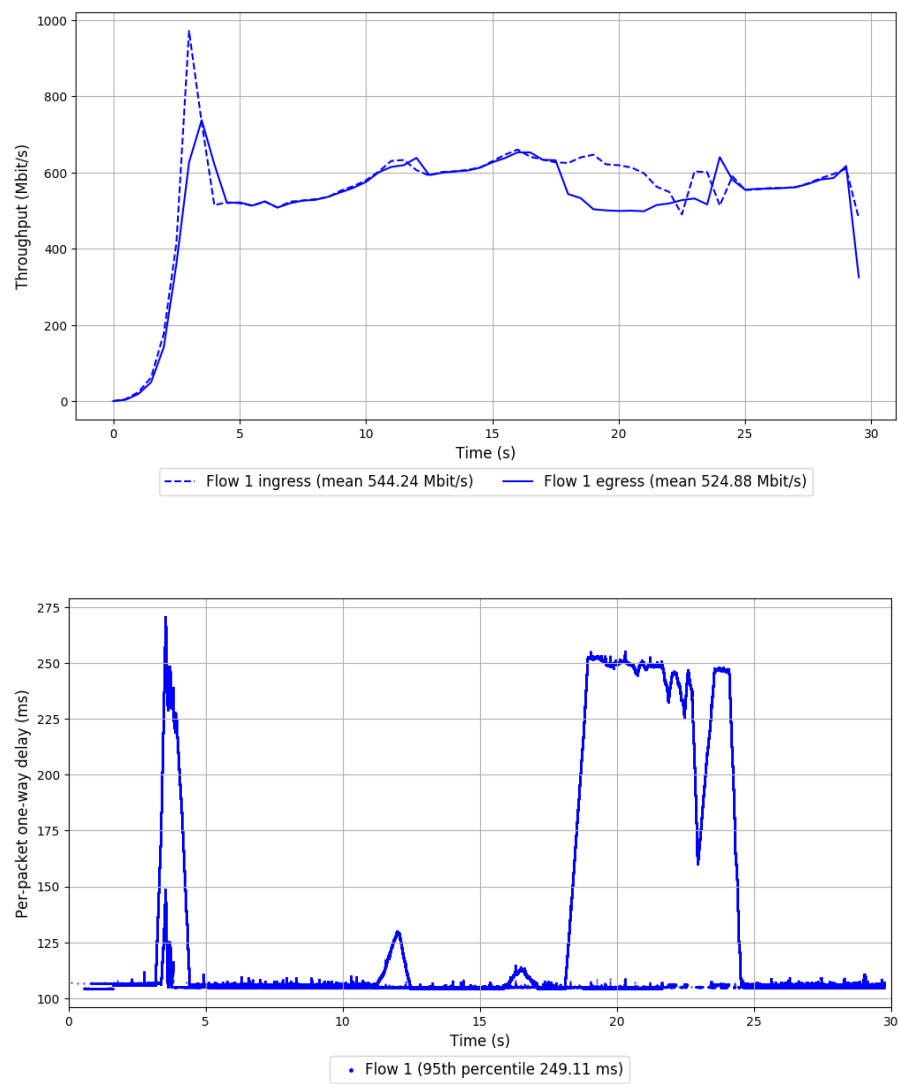
-- Flow 1:

Average throughput: 524.88 Mbit/s

95th percentile per-packet one-way delay: 249.113 ms

Loss rate: 4.27%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-16 21:26:27

End at: 2018-04-16 21:26:57

Below is generated by plot.py at 2018-04-17 01:43:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 551.73 Mbit/s

95th percentile per-packet one-way delay: 222.618 ms

Loss rate: 2.16%

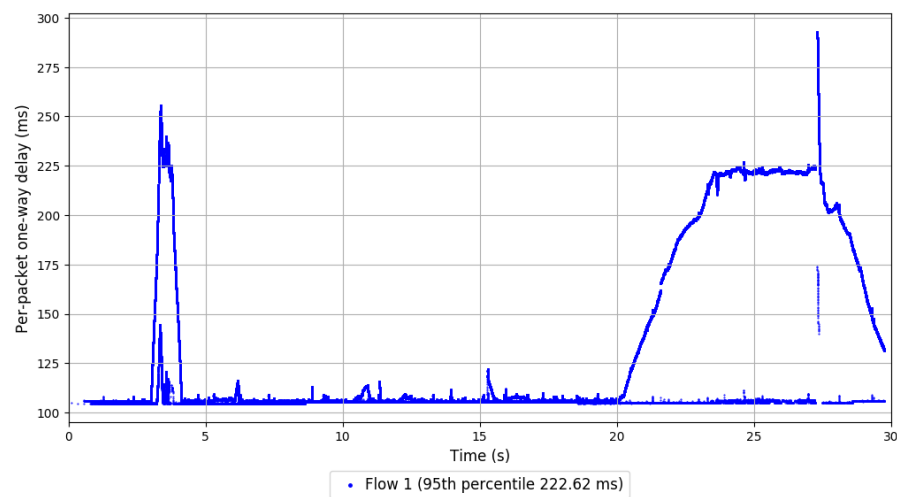
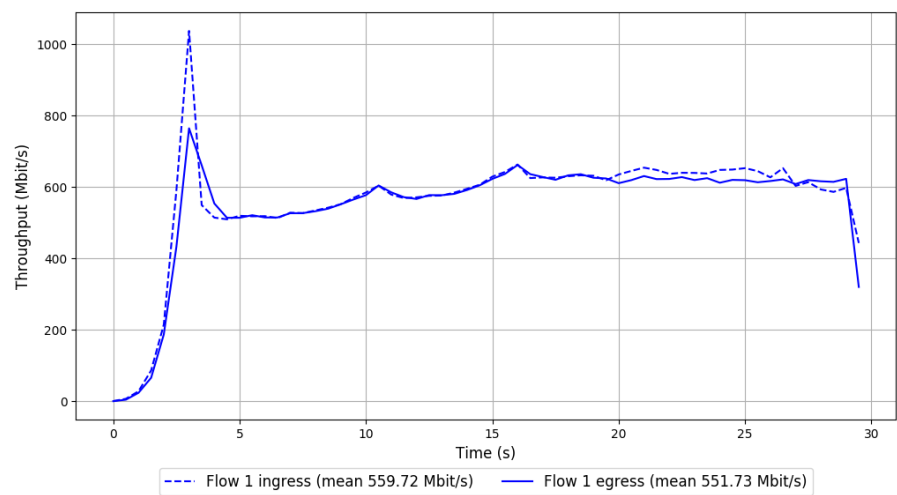
-- Flow 1:

Average throughput: 551.73 Mbit/s

95th percentile per-packet one-way delay: 222.618 ms

Loss rate: 2.16%

Run 3: Report of PCC-Allegro — Data Link

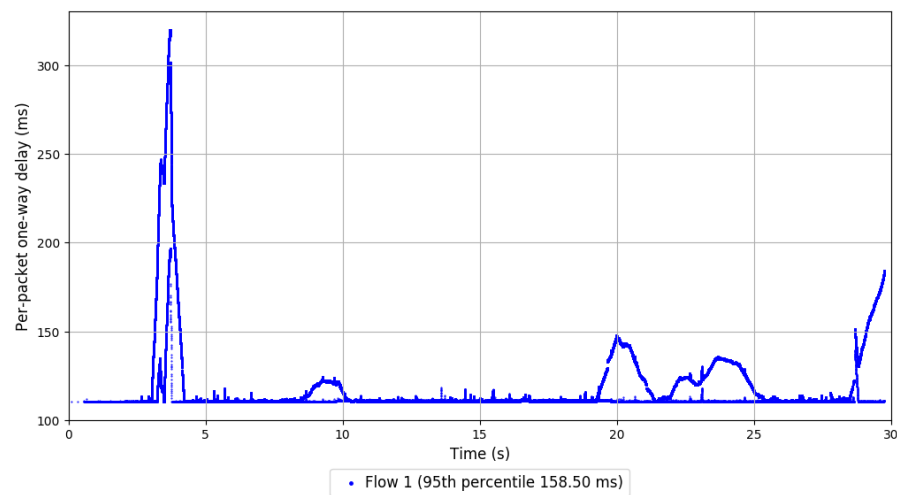
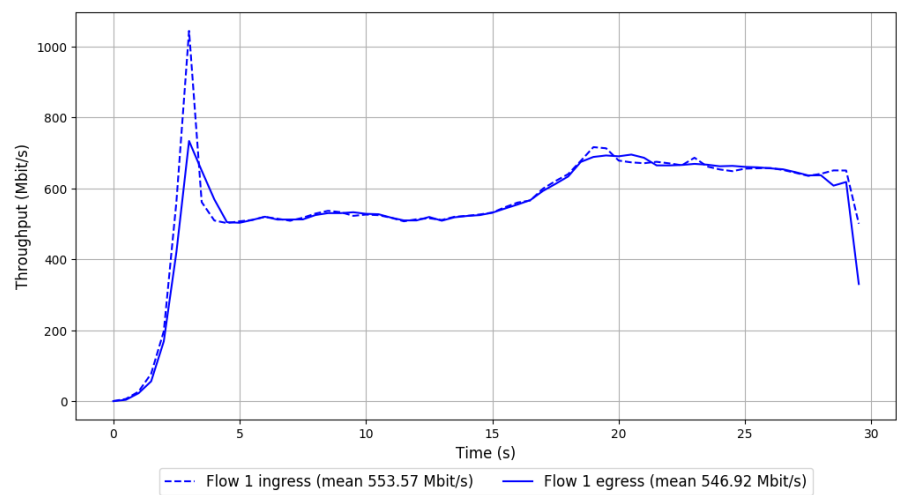


```
Run 4: Statistics of PCC-Allegro

Start at: 2018-04-16 21:40:27
End at: 2018-04-16 21:40:57

# Below is generated by plot.py at 2018-04-17 01:43:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 546.92 Mbit/s
95th percentile per-packet one-way delay: 158.496 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 546.92 Mbit/s
95th percentile per-packet one-way delay: 158.496 ms
Loss rate: 1.94%
```

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-16 21:54:35

End at: 2018-04-16 21:55:05

Below is generated by plot.py at 2018-04-17 01:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.95 Mbit/s

95th percentile per-packet one-way delay: 154.597 ms

Loss rate: 1.63%

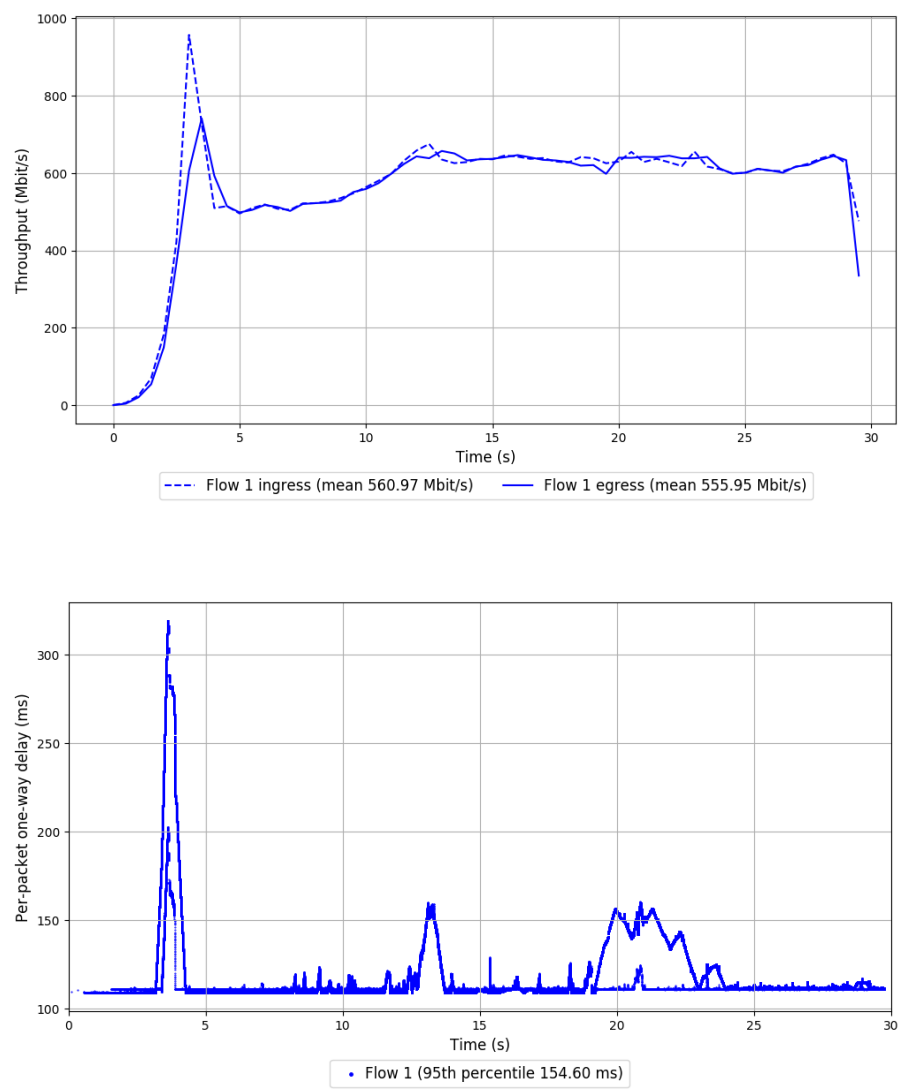
-- Flow 1:

Average throughput: 555.95 Mbit/s

95th percentile per-packet one-way delay: 154.597 ms

Loss rate: 1.63%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-16 22:08:39

End at: 2018-04-16 22:09:09

Below is generated by plot.py at 2018-04-17 01:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 490.64 Mbit/s

95th percentile per-packet one-way delay: 258.328 ms

Loss rate: 3.97%

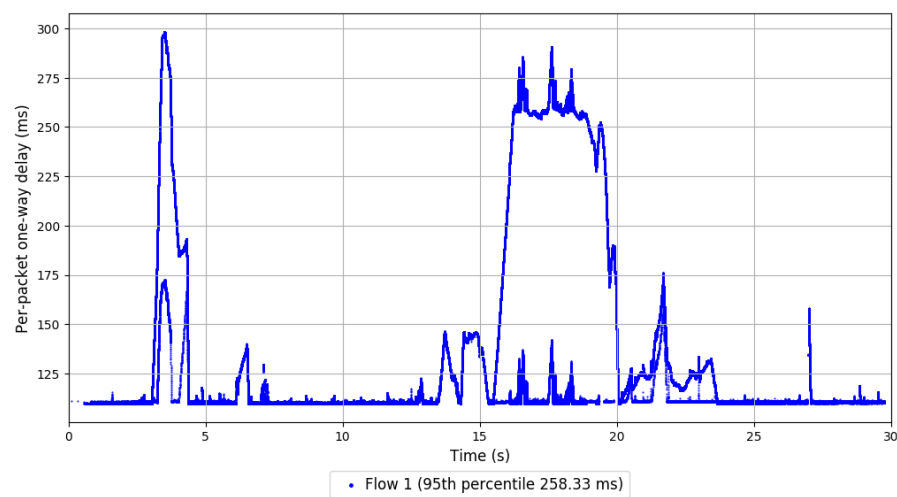
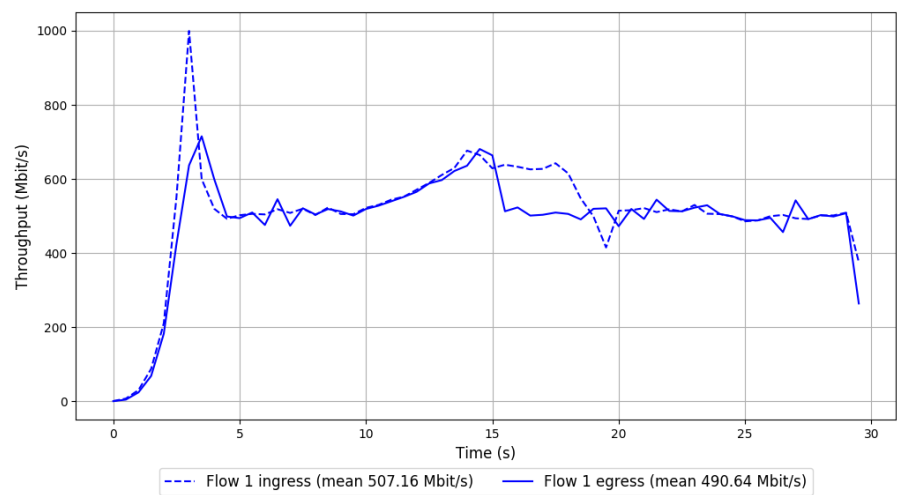
-- Flow 1:

Average throughput: 490.64 Mbit/s

95th percentile per-packet one-way delay: 258.328 ms

Loss rate: 3.97%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-16 22:22:29

End at: 2018-04-16 22:22:59

Below is generated by plot.py at 2018-04-17 01:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 476.48 Mbit/s

95th percentile per-packet one-way delay: 253.866 ms

Loss rate: 2.56%

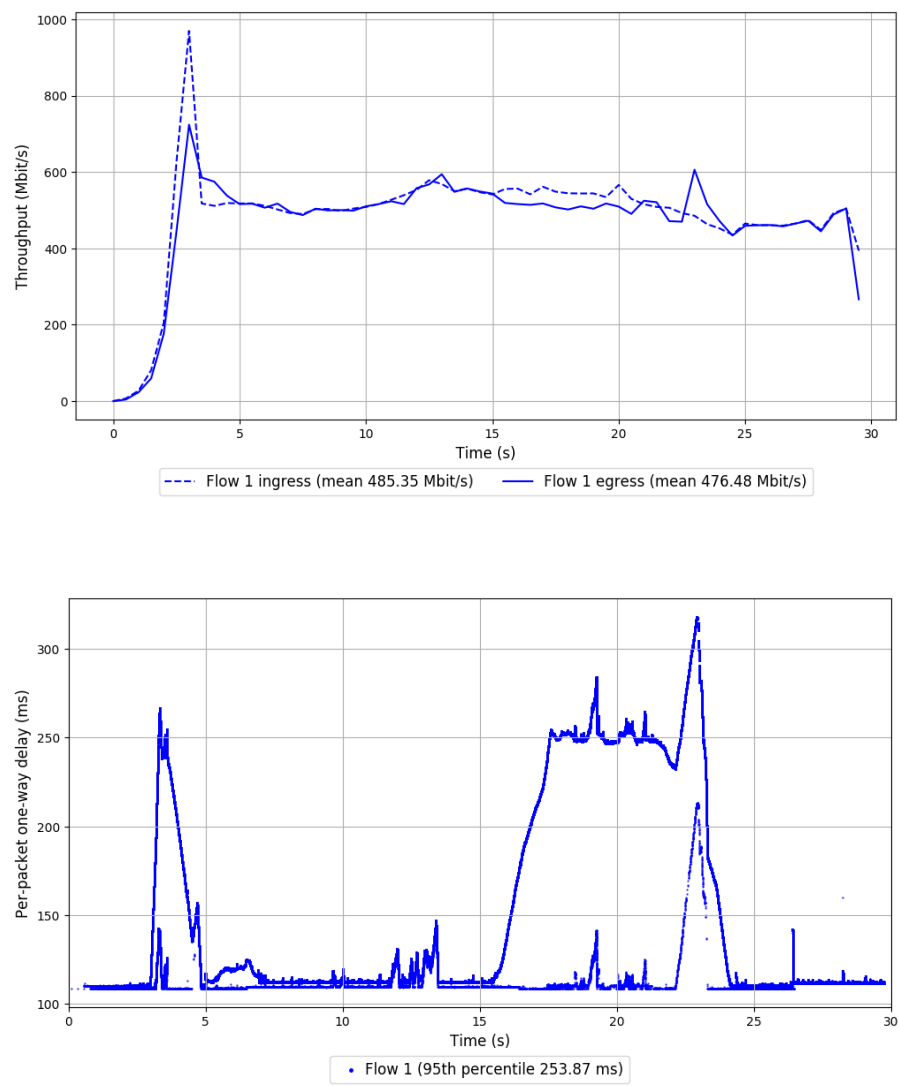
-- Flow 1:

Average throughput: 476.48 Mbit/s

95th percentile per-packet one-way delay: 253.866 ms

Loss rate: 2.56%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-16 22:36:21

End at: 2018-04-16 22:36:51

Below is generated by plot.py at 2018-04-17 01:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.74 Mbit/s

95th percentile per-packet one-way delay: 256.319 ms

Loss rate: 3.74%

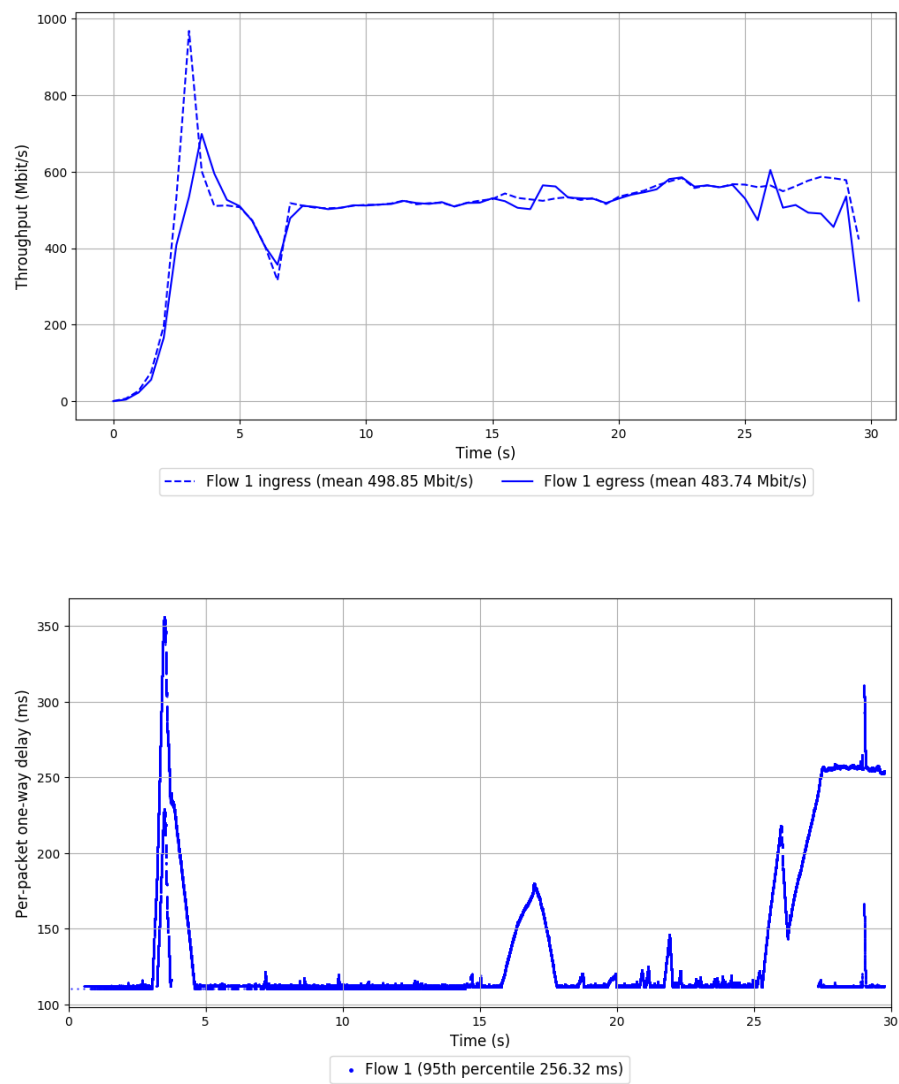
-- Flow 1:

Average throughput: 483.74 Mbit/s

95th percentile per-packet one-way delay: 256.319 ms

Loss rate: 3.74%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-16 22:50:13

End at: 2018-04-16 22:50:43

Below is generated by plot.py at 2018-04-17 01:51:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 479.89 Mbit/s

95th percentile per-packet one-way delay: 256.094 ms

Loss rate: 3.70%

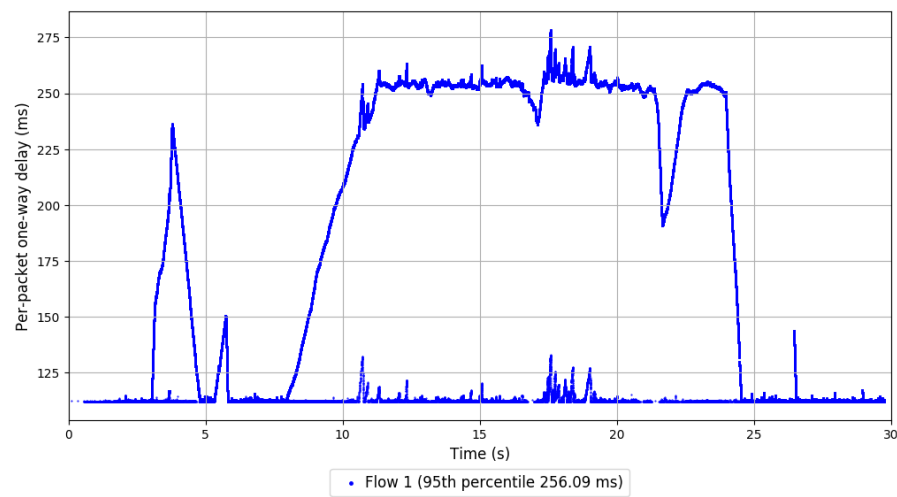
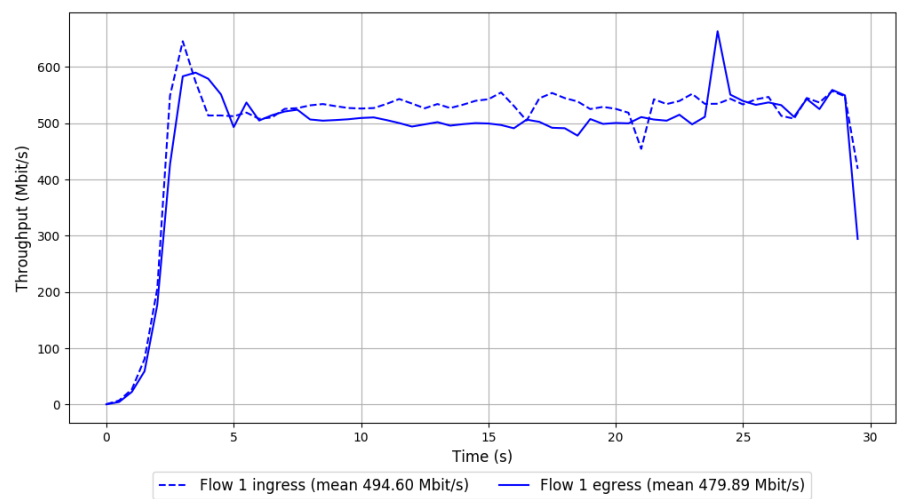
-- Flow 1:

Average throughput: 479.89 Mbit/s

95th percentile per-packet one-way delay: 256.094 ms

Loss rate: 3.70%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-16 23:04:20

End at: 2018-04-16 23:04:50

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 472.03 Mbit/s

95th percentile per-packet one-way delay: 257.675 ms

Loss rate: 4.11%

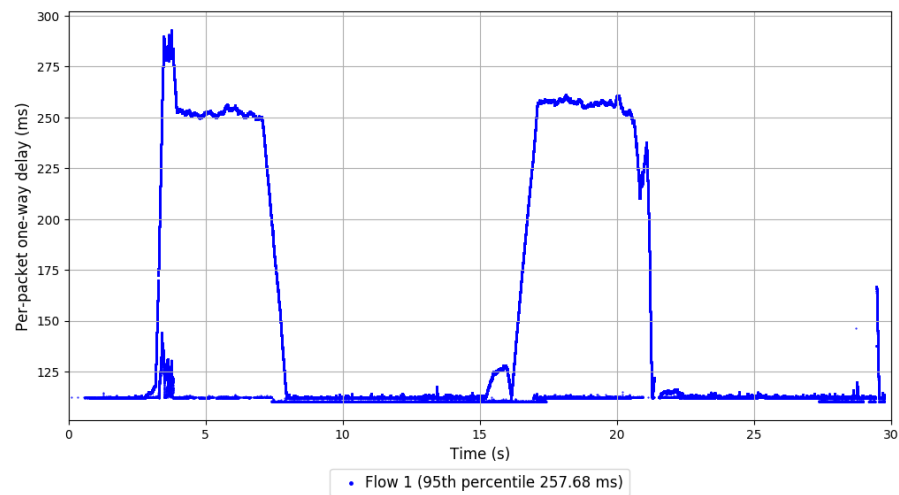
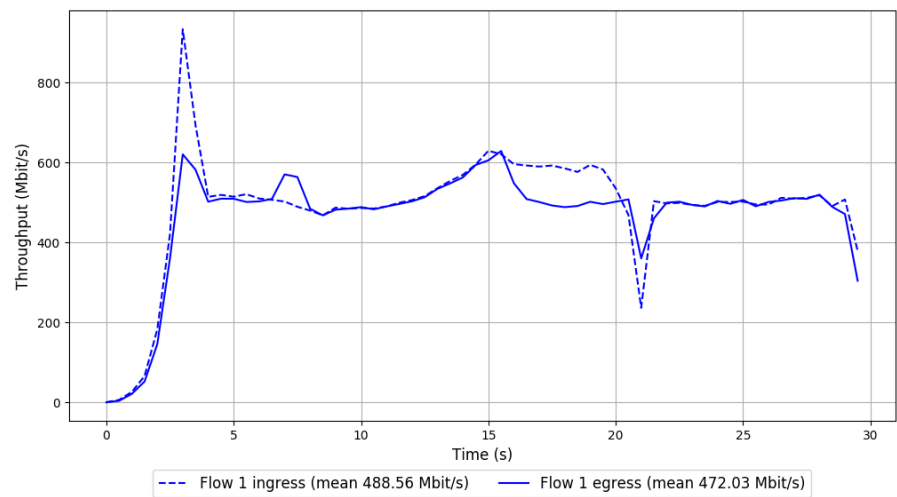
-- Flow 1:

Average throughput: 472.03 Mbit/s

95th percentile per-packet one-way delay: 257.675 ms

Loss rate: 4.11%

Run 10: Report of PCC-Allegro — Data Link

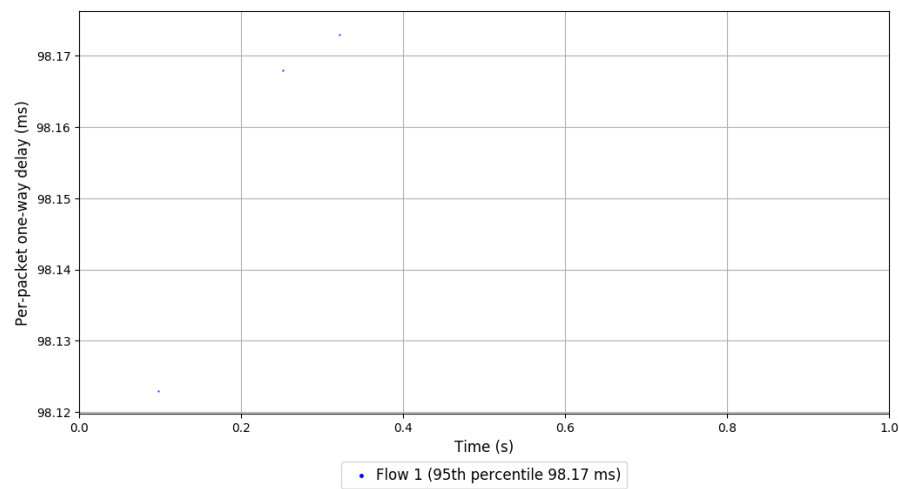
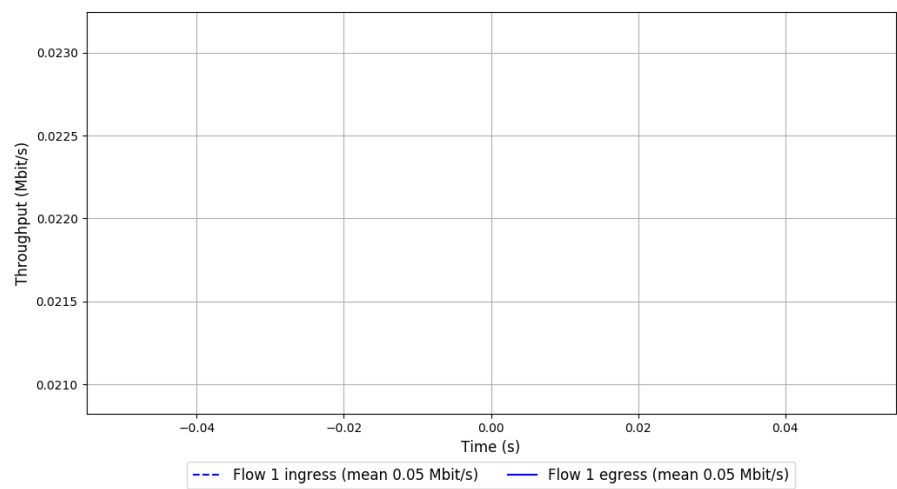


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-16 20:53:47

End at: 2018-04-16 20:54:17

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-16 21:07:56

End at: 2018-04-16 21:08:26

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 107.316 ms

Loss rate: 0.99%

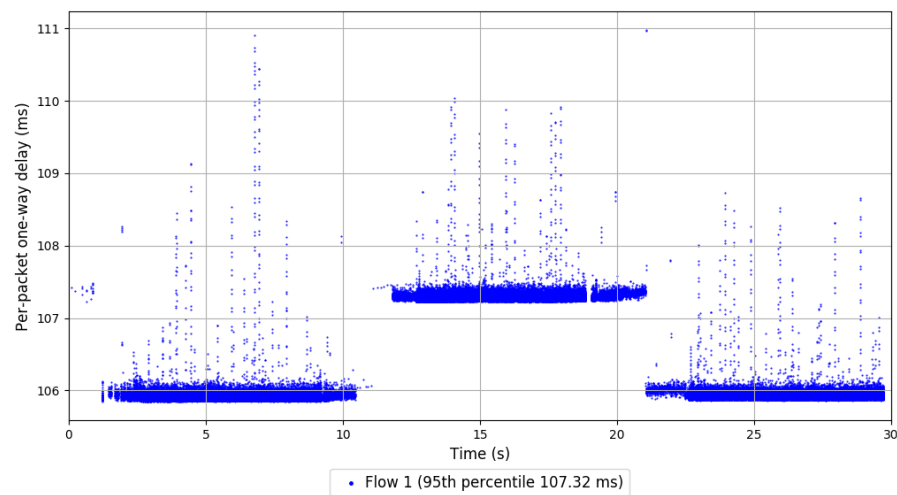
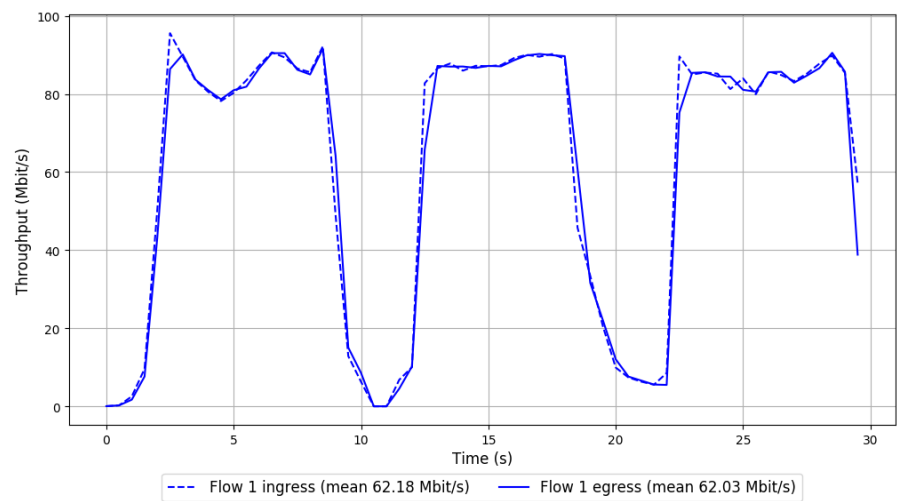
-- Flow 1:

Average throughput: 62.03 Mbit/s

95th percentile per-packet one-way delay: 107.316 ms

Loss rate: 0.99%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-16 21:21:58

End at: 2018-04-16 21:22:28

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 105.740 ms

Loss rate: 1.07%

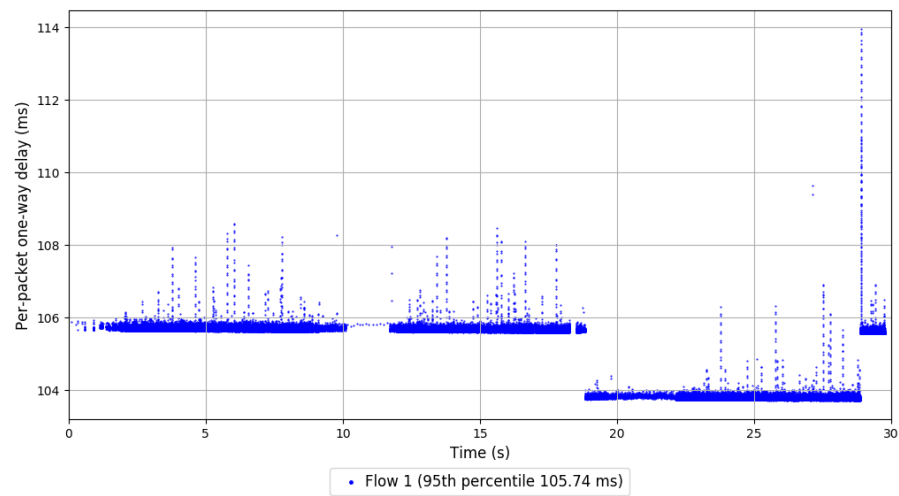
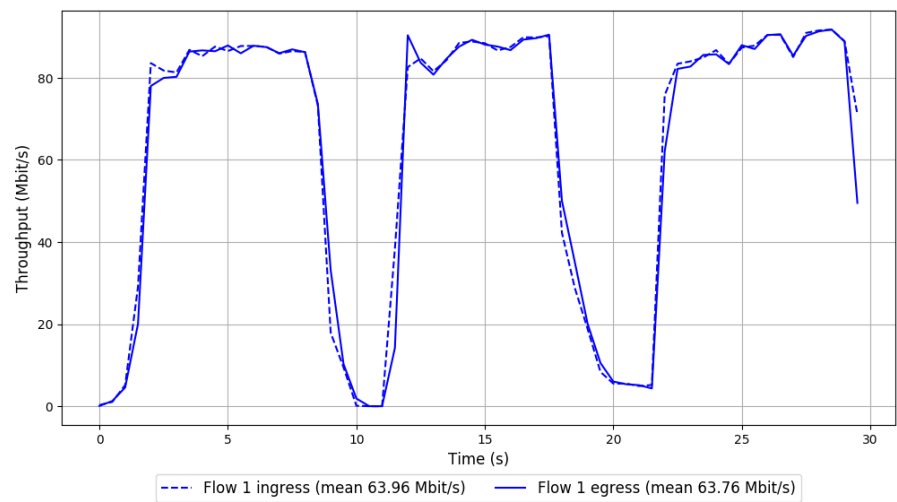
-- Flow 1:

Average throughput: 63.76 Mbit/s

95th percentile per-packet one-way delay: 105.740 ms

Loss rate: 1.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-16 21:36:00

End at: 2018-04-16 21:36:30

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 110.093 ms

Loss rate: 1.02%

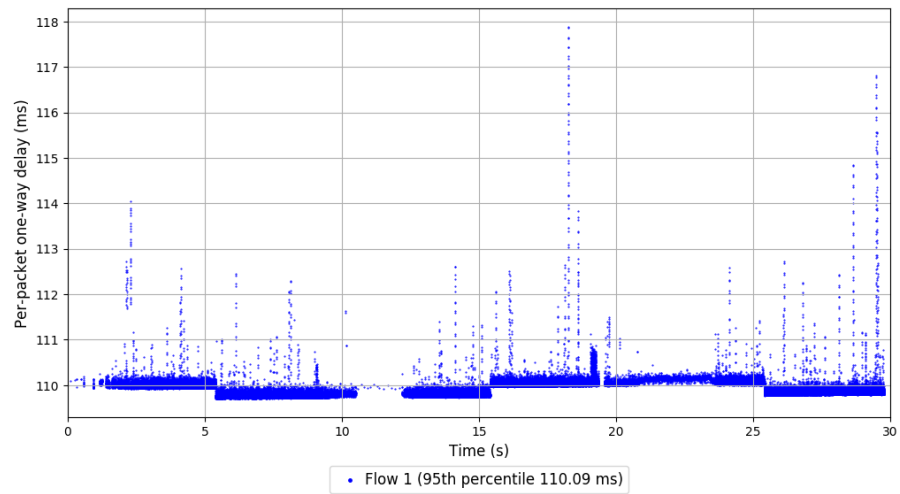
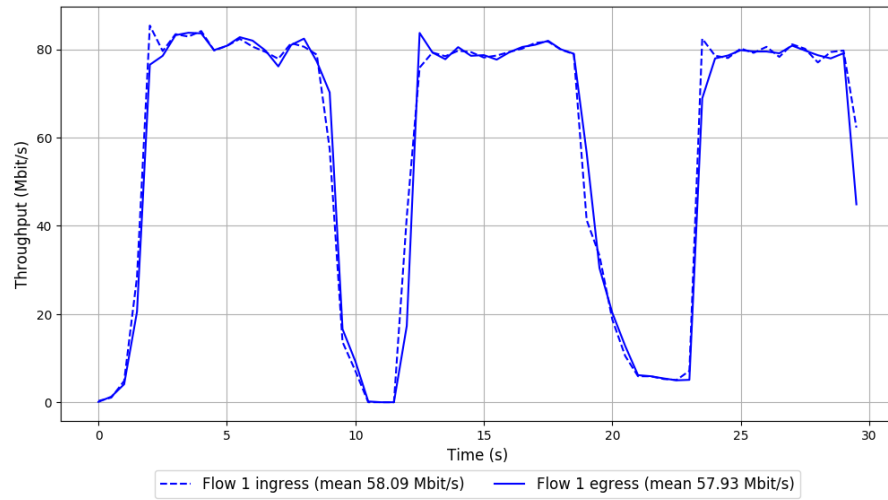
-- Flow 1:

Average throughput: 57.93 Mbit/s

95th percentile per-packet one-way delay: 110.093 ms

Loss rate: 1.02%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-16 21:50:05

End at: 2018-04-16 21:50:35

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 110.962 ms

Loss rate: 1.00%

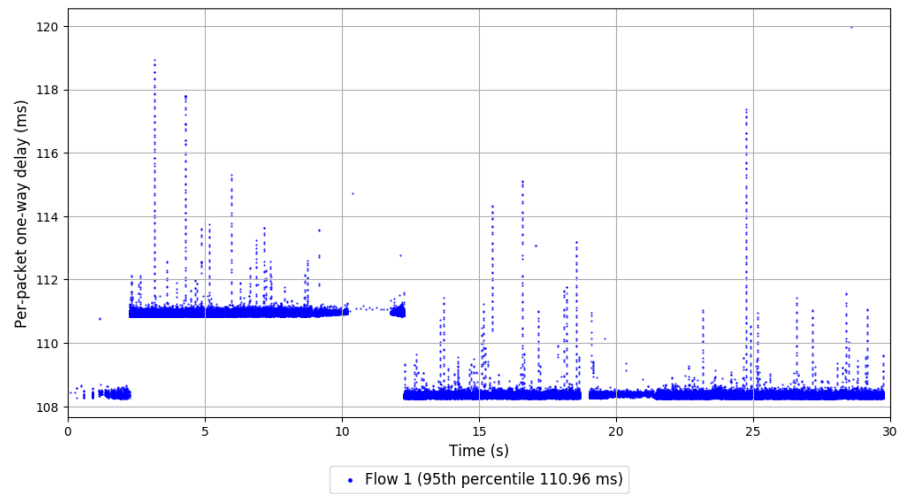
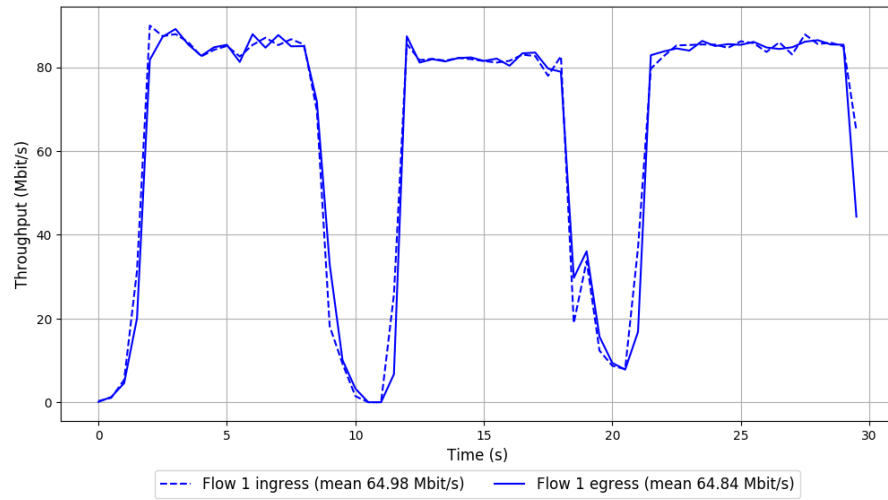
-- Flow 1:

Average throughput: 64.84 Mbit/s

95th percentile per-packet one-way delay: 110.962 ms

Loss rate: 1.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-16 22:04:11

End at: 2018-04-16 22:04:41

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 109.645 ms

Loss rate: 1.14%

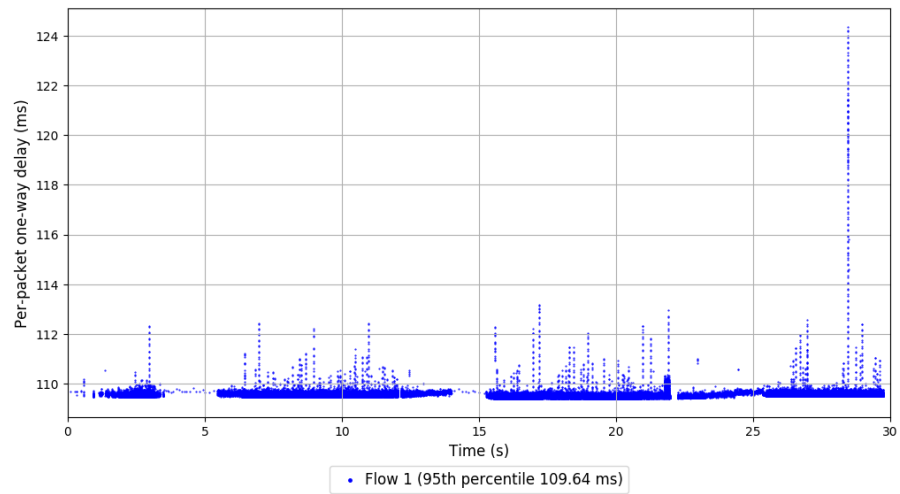
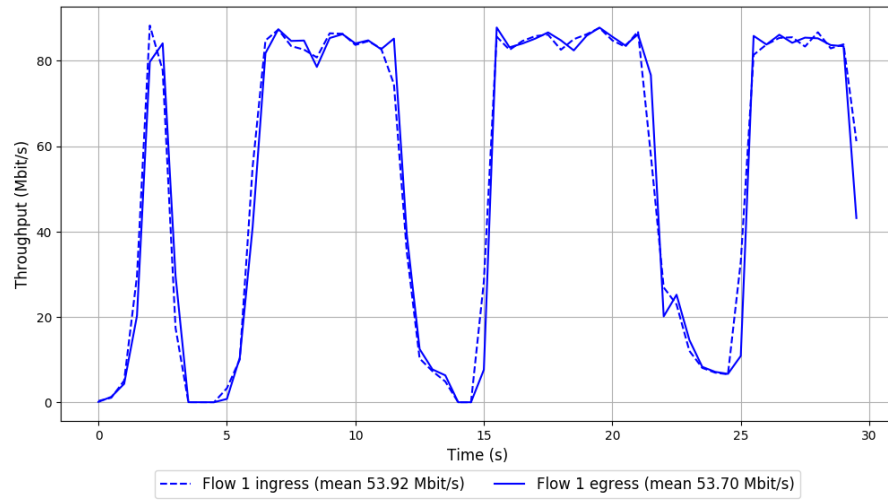
-- Flow 1:

Average throughput: 53.70 Mbit/s

95th percentile per-packet one-way delay: 109.645 ms

Loss rate: 1.14%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-16 22:18:00

End at: 2018-04-16 22:18:30

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 110.588 ms

Loss rate: 1.04%

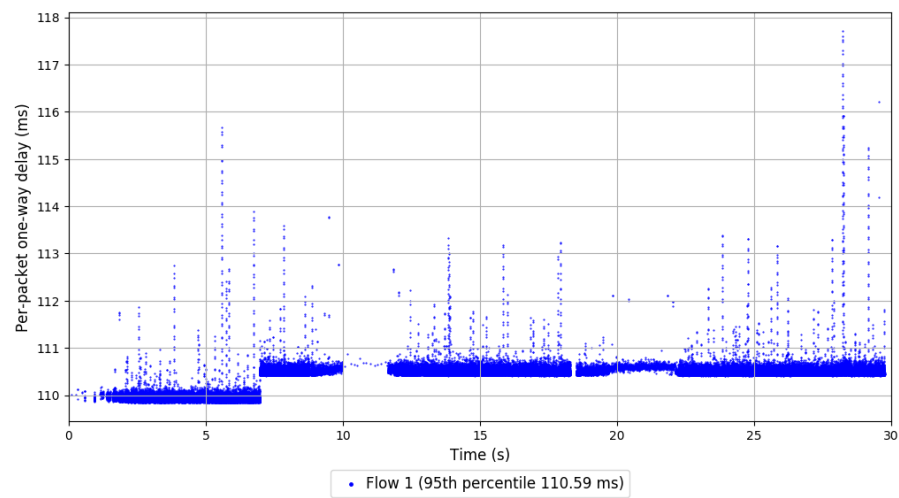
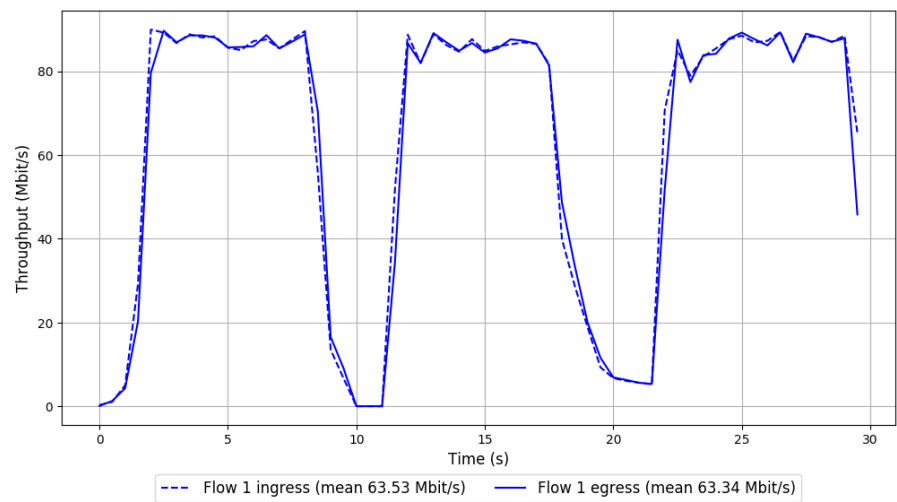
-- Flow 1:

Average throughput: 63.34 Mbit/s

95th percentile per-packet one-way delay: 110.588 ms

Loss rate: 1.04%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-16 22:31:52

End at: 2018-04-16 22:32:22

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 109.900 ms

Loss rate: 1.12%

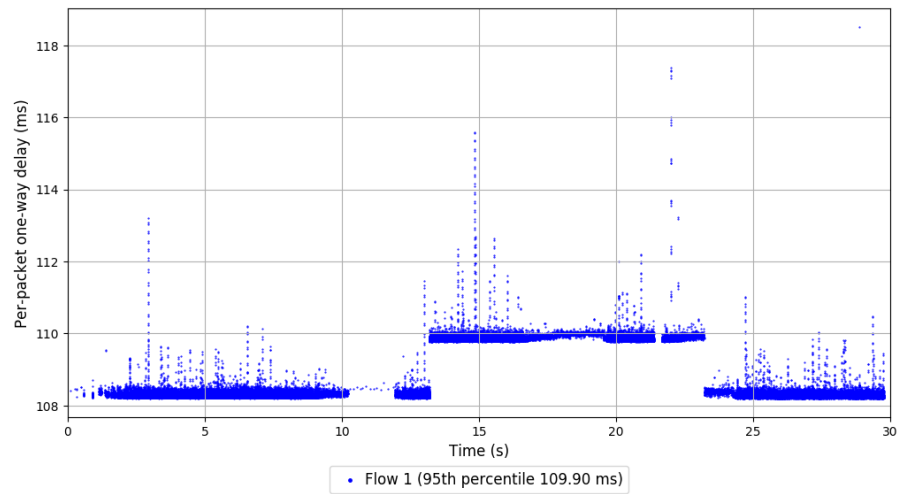
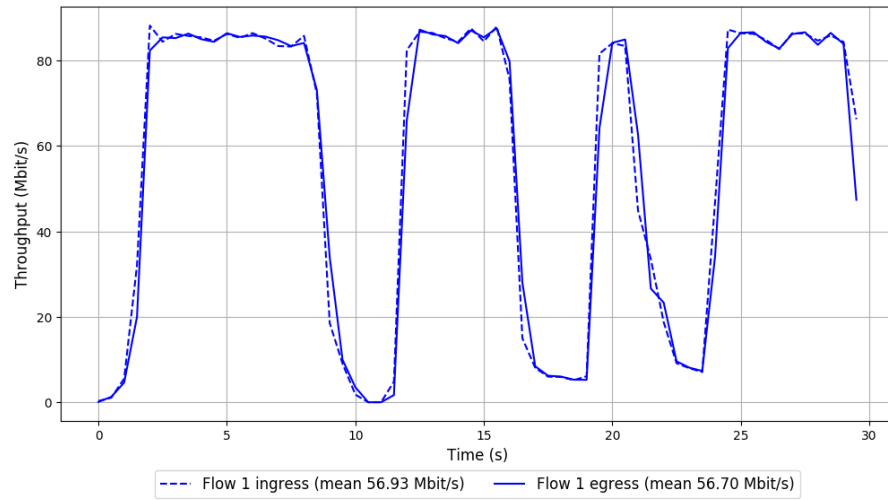
-- Flow 1:

Average throughput: 56.70 Mbit/s

95th percentile per-packet one-way delay: 109.900 ms

Loss rate: 1.12%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-16 22:45:44

End at: 2018-04-16 22:46:14

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 110.612 ms

Loss rate: 0.84%

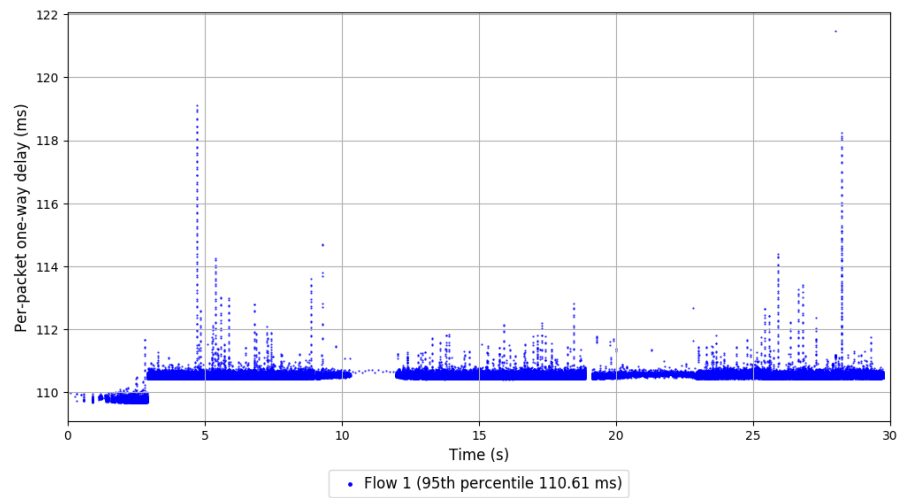
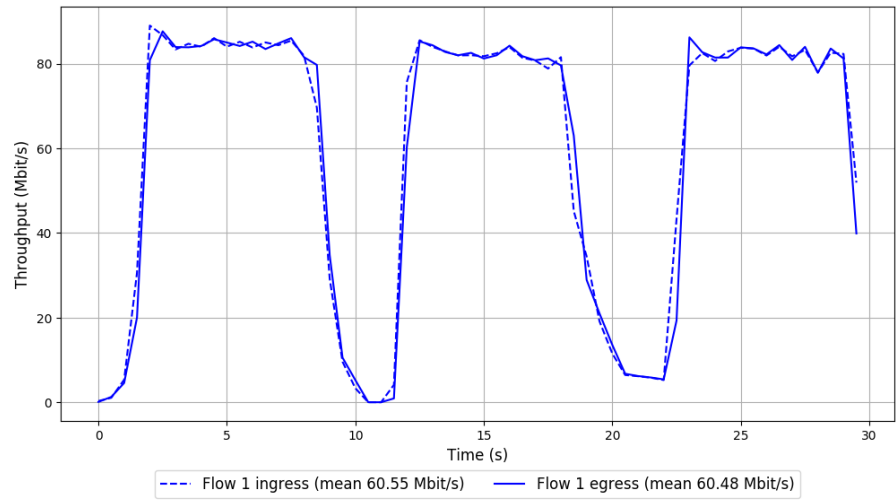
-- Flow 1:

Average throughput: 60.48 Mbit/s

95th percentile per-packet one-way delay: 110.612 ms

Loss rate: 0.84%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-16 22:59:48

End at: 2018-04-16 23:00:18

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.94%

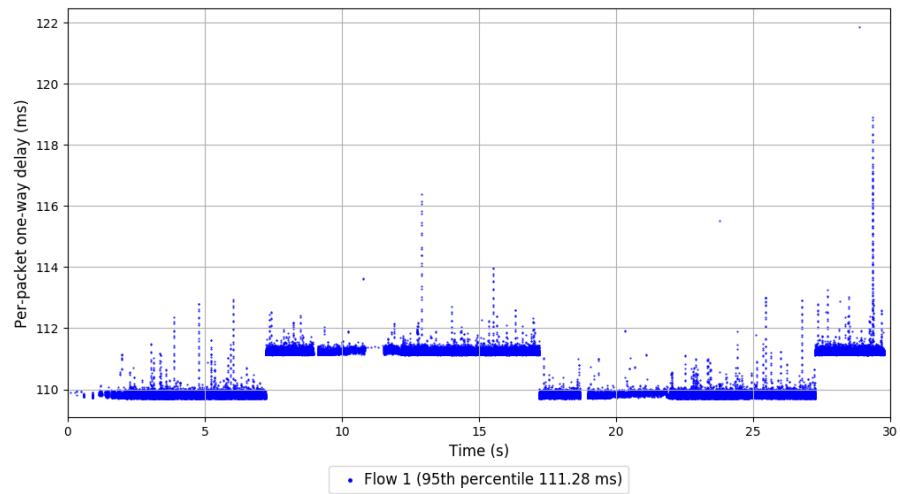
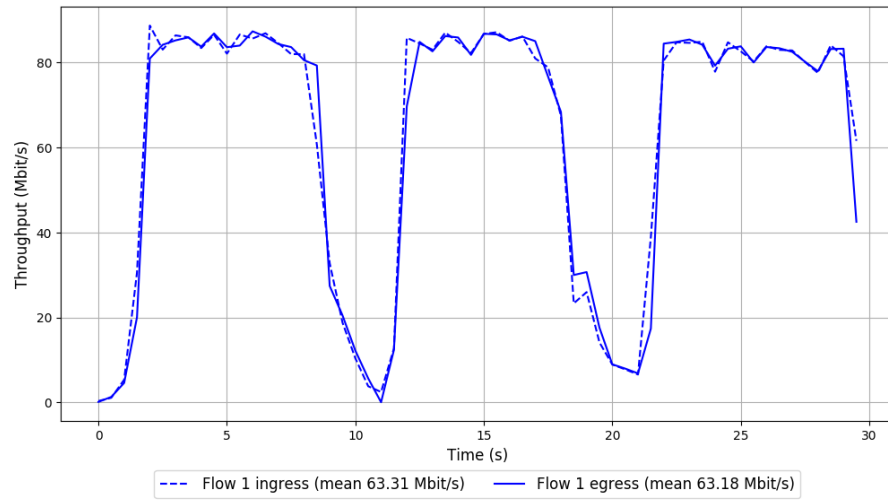
-- Flow 1:

Average throughput: 63.18 Mbit/s

95th percentile per-packet one-way delay: 111.275 ms

Loss rate: 0.94%

Run 10: Report of QUIC Cubic — Data Link

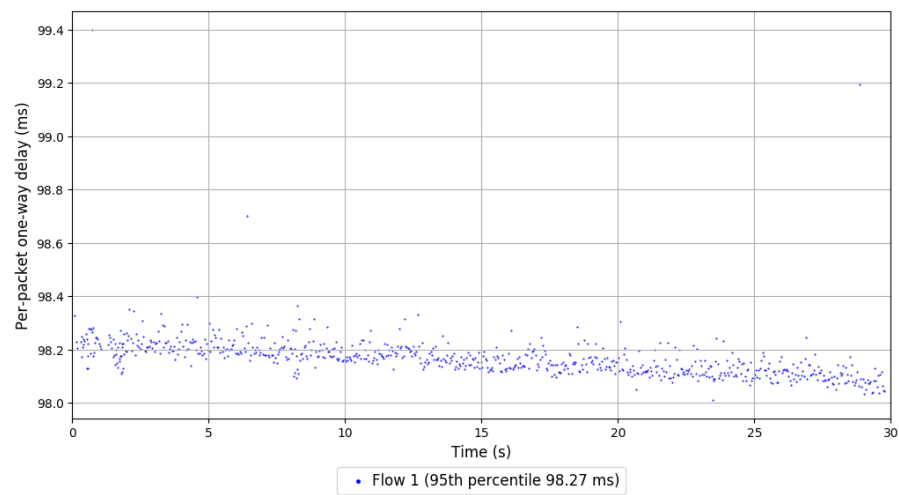
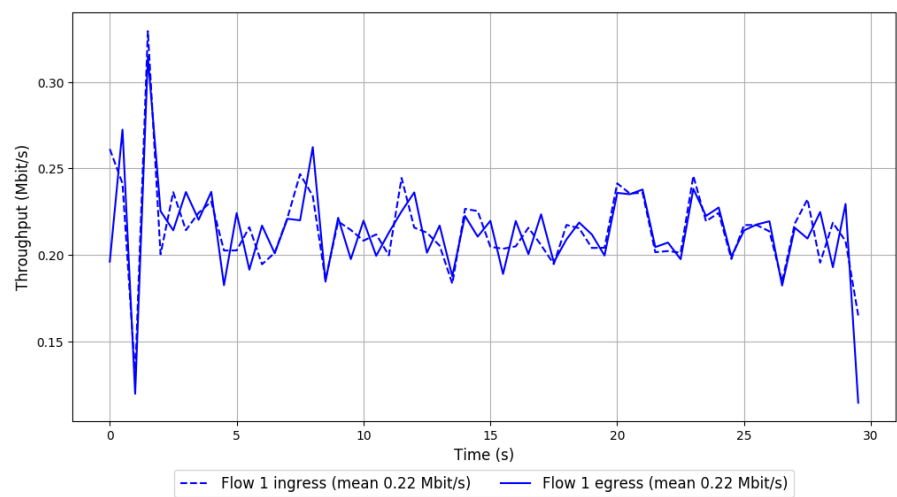


```
Run 1: Statistics of SCReAM

Start at: 2018-04-16 20:49:42
End at: 2018-04-16 20:50:12

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.271 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 98.271 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link

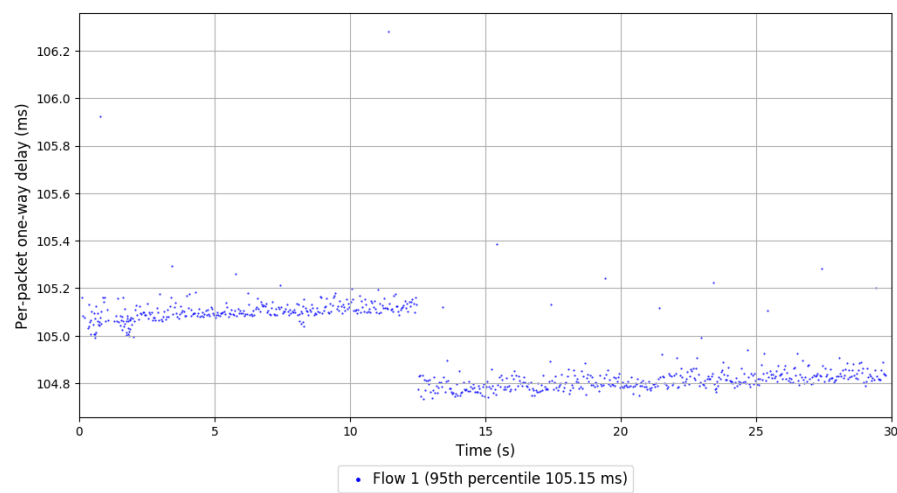
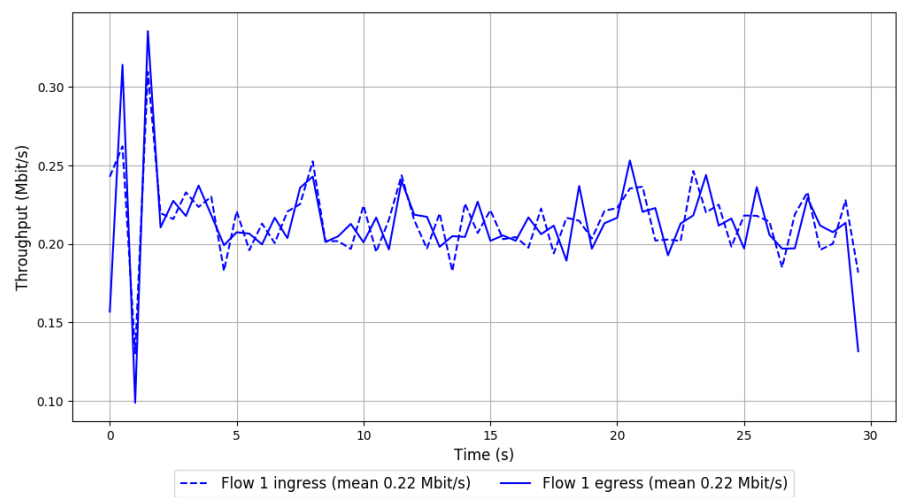


```
Run 2: Statistics of SCReAM

Start at: 2018-04-16 21:03:34
End at: 2018-04-16 21:04:04

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 105.152 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 105.152 ms
Loss rate: 0.77%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-16 21:17:44

End at: 2018-04-16 21:18:14

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.632 ms

Loss rate: 0.77%

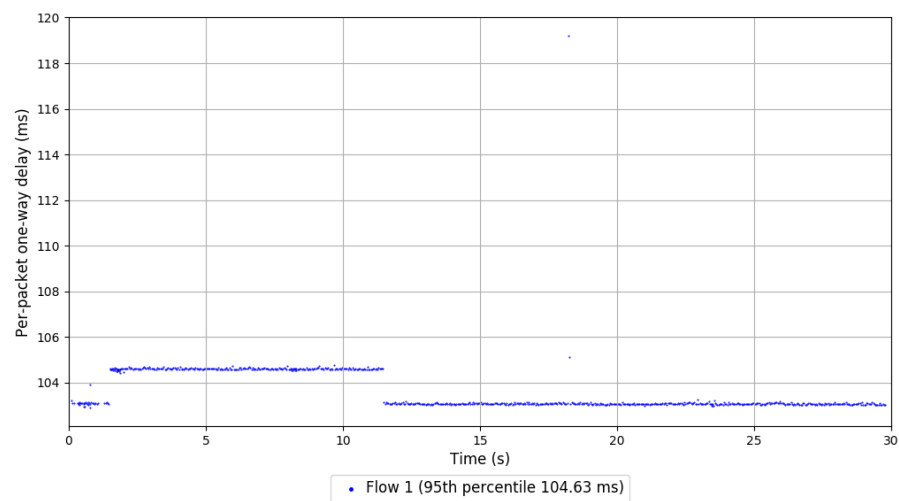
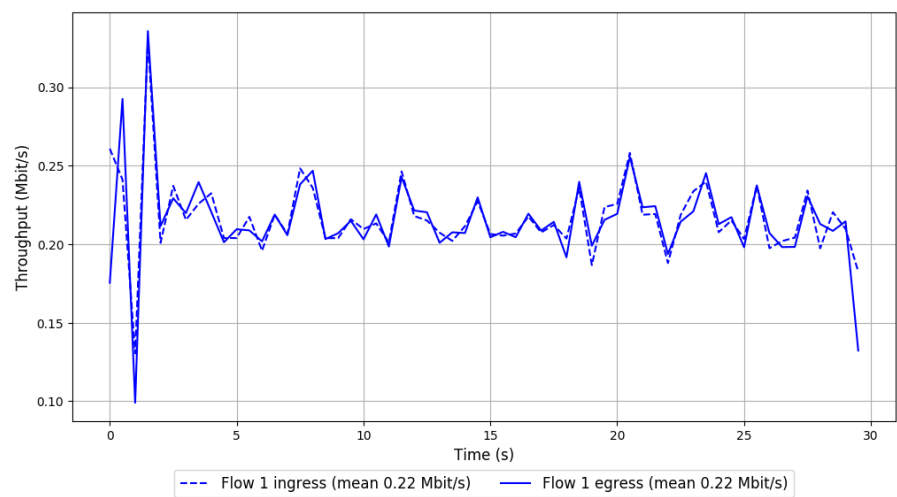
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 104.632 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link

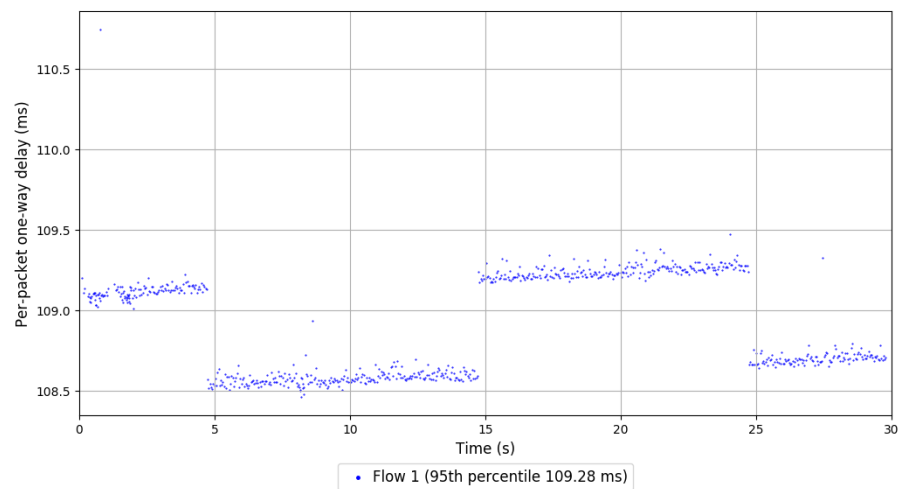
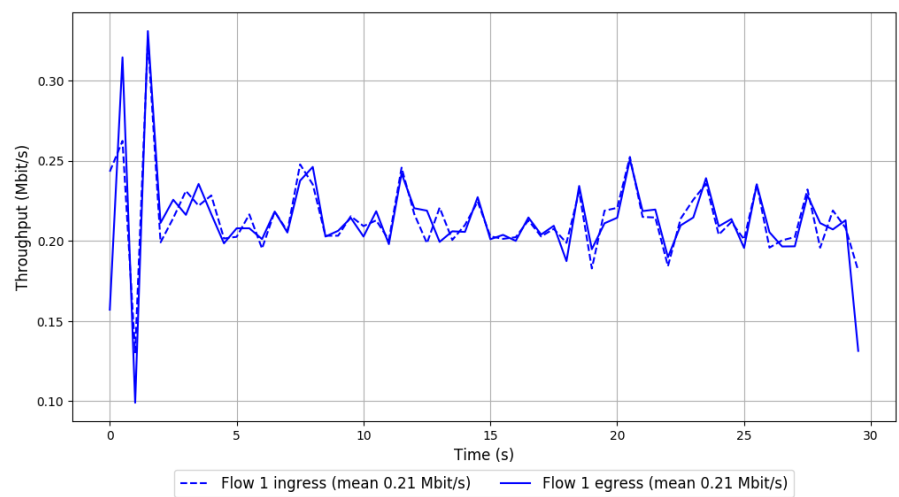


```
Run 4: Statistics of SCReAM

Start at: 2018-04-16 21:31:40
End at: 2018-04-16 21:32:10

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 109.282 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 109.282 ms
Loss rate: 0.77%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-16 21:45:42

End at: 2018-04-16 21:46:12

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.615 ms

Loss rate: 0.77%

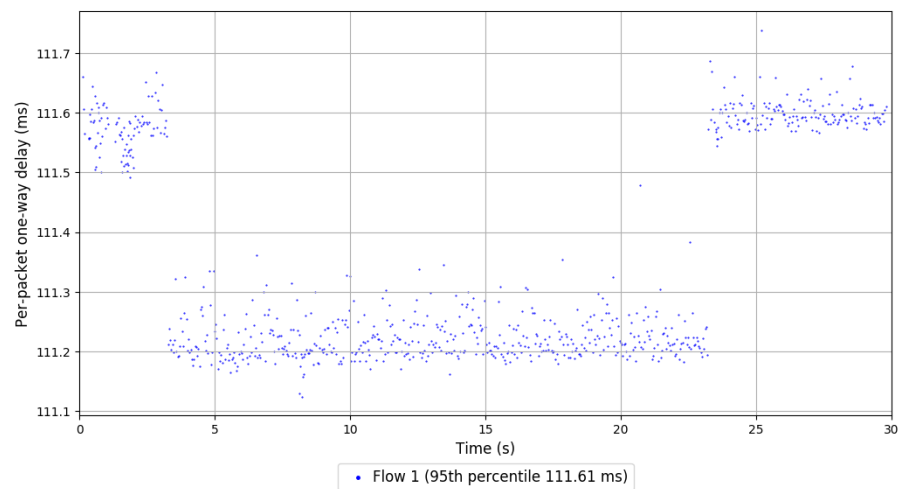
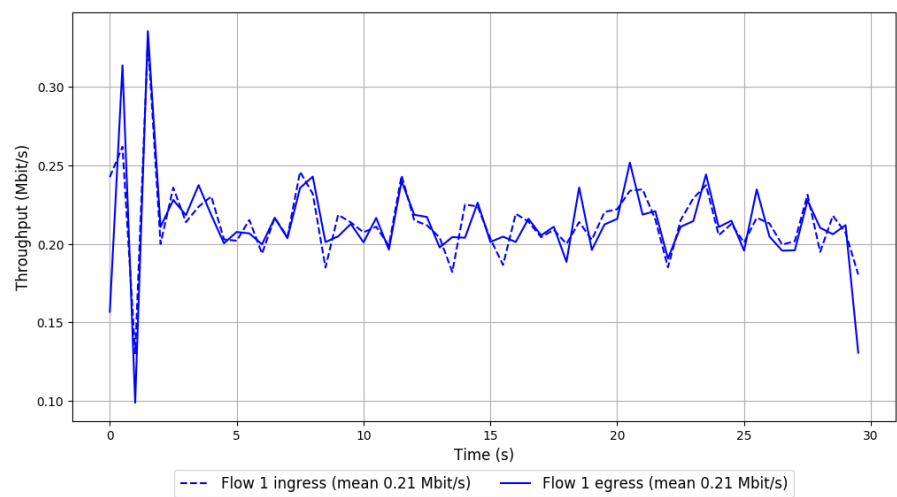
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 111.615 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-16 21:59:52

End at: 2018-04-16 22:00:22

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.345 ms

Loss rate: 0.77%

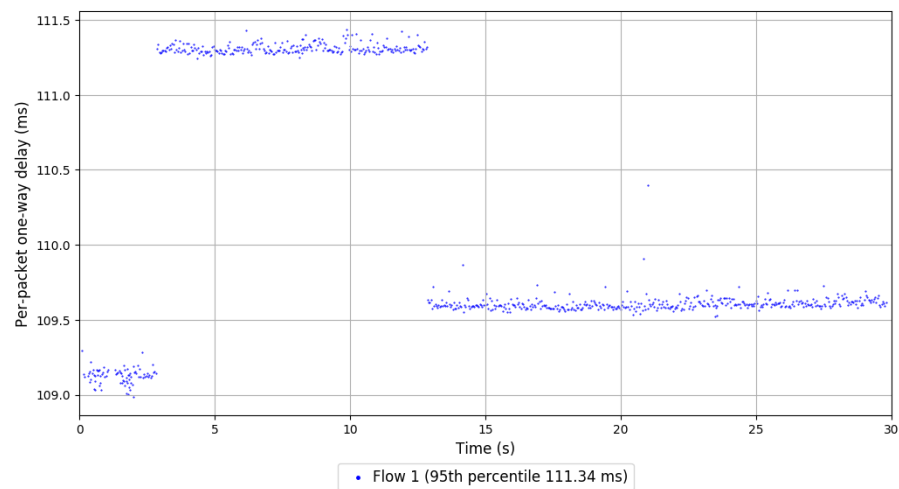
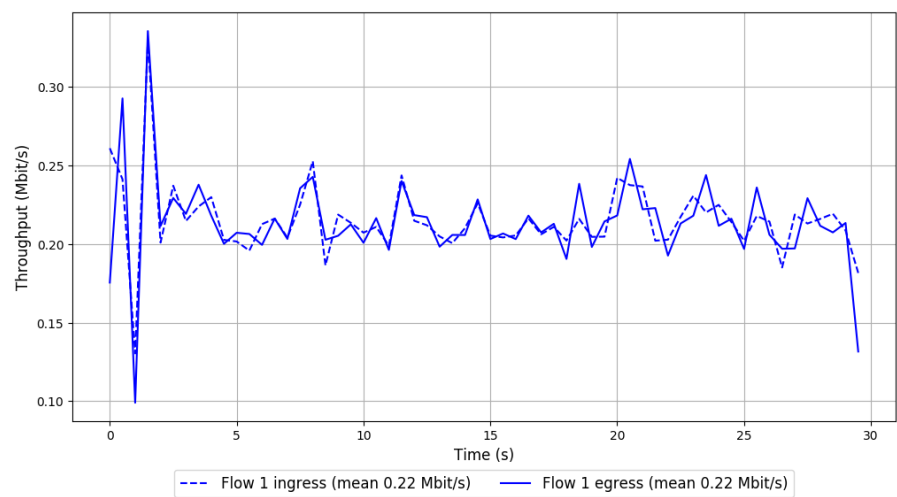
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.345 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-16 22:13:56

End at: 2018-04-16 22:14:26

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.938 ms

Loss rate: 0.76%

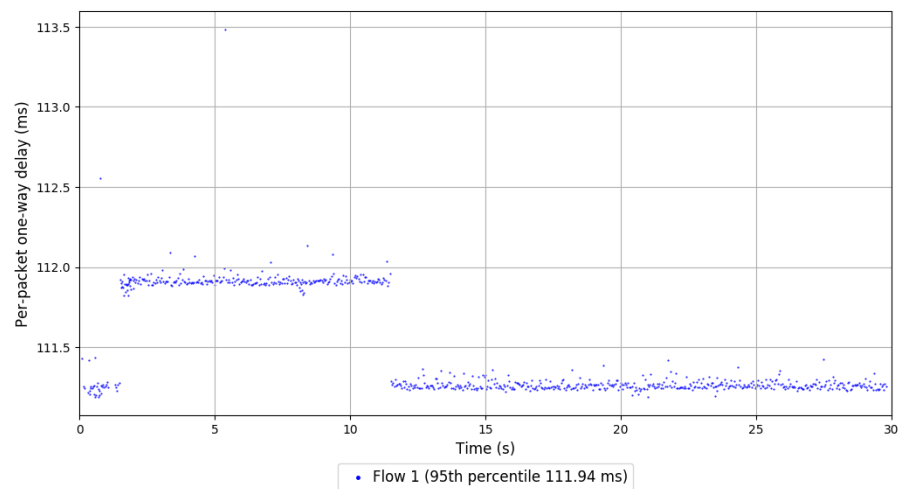
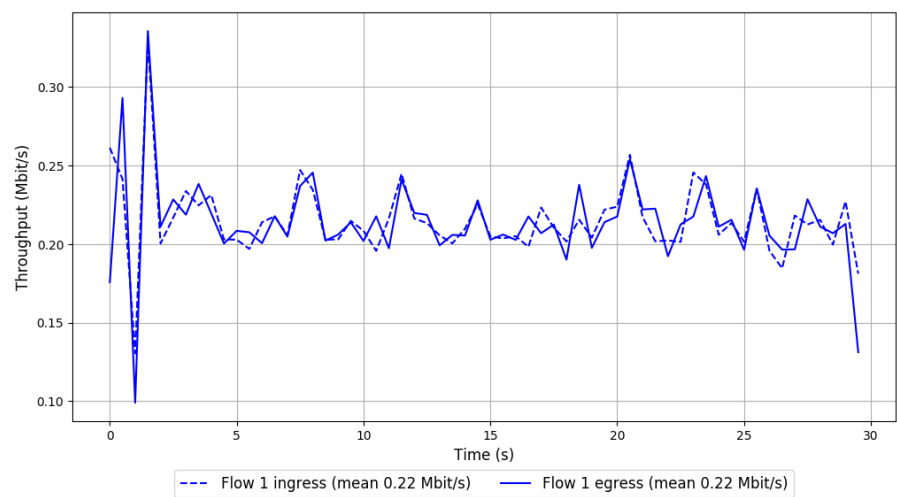
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.938 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-16 22:27:42

End at: 2018-04-16 22:28:12

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.204 ms

Loss rate: 0.77%

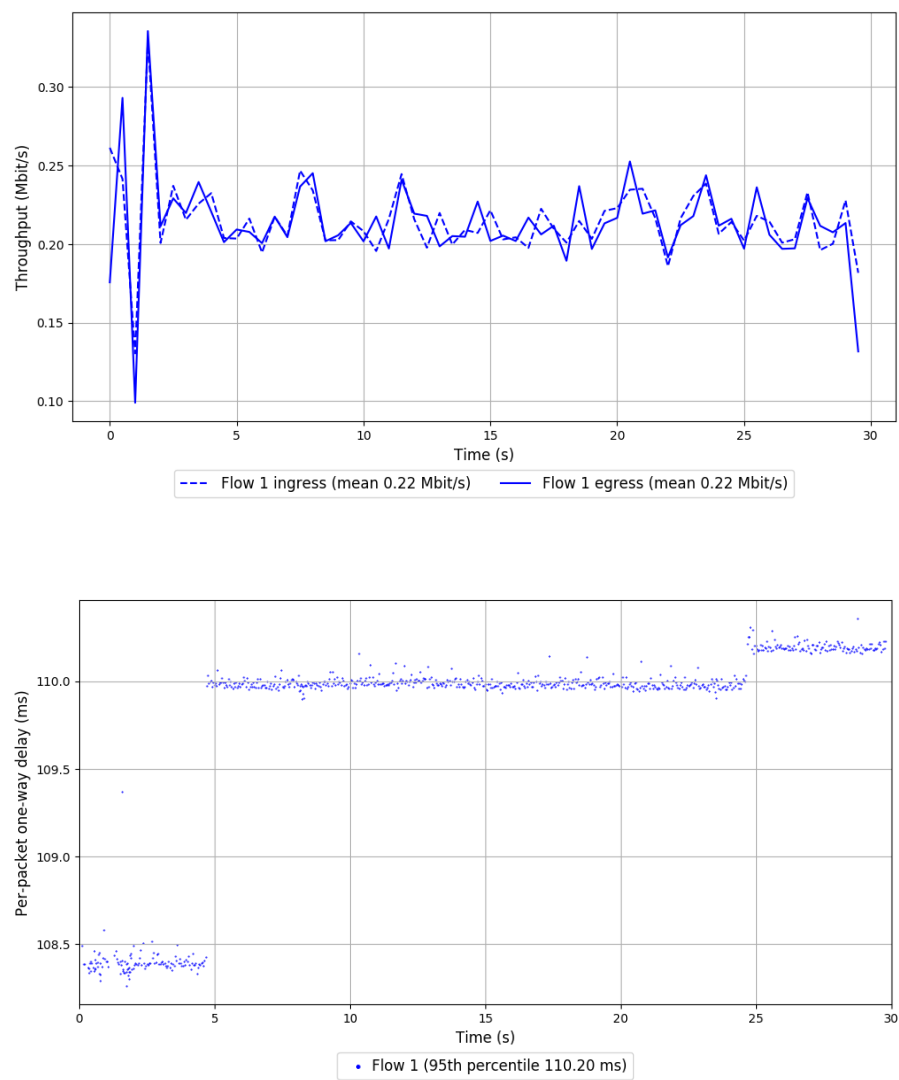
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.204 ms

Loss rate: 0.77%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-16 22:41:27

End at: 2018-04-16 22:41:57

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.219 ms

Loss rate: 0.64%

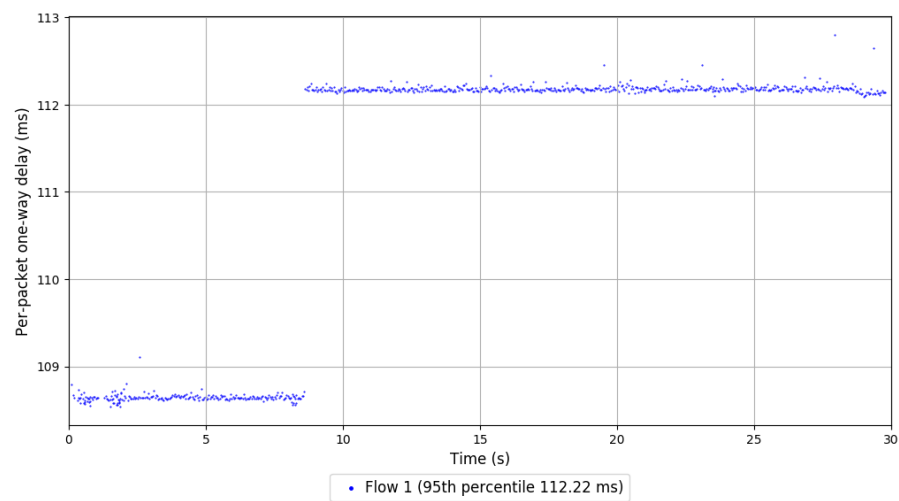
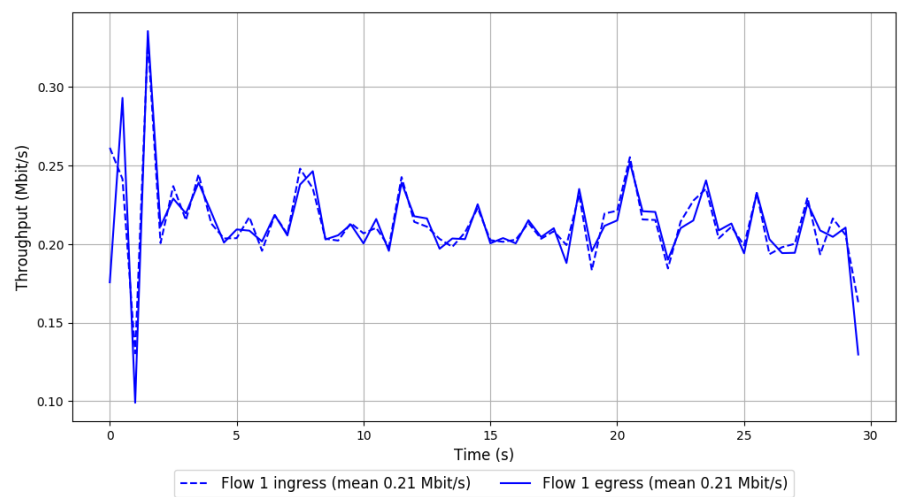
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 112.219 ms

Loss rate: 0.64%

Run 9: Report of SReAM — Data Link

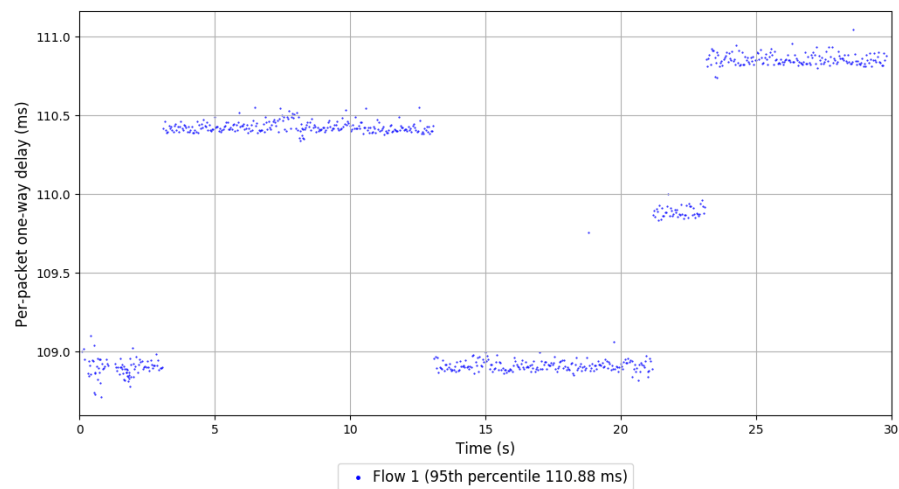
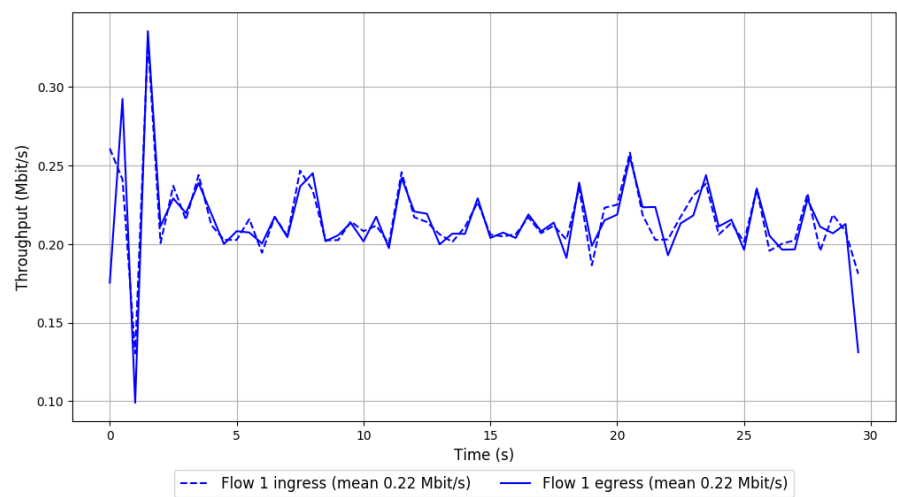


```
Run 10: Statistics of SReAM

Start at: 2018-04-16 22:55:24
End at: 2018-04-16 22:55:54

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.882 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 110.882 ms
Loss rate: 0.76%
```

Run 10: Report of SReAM — Data Link

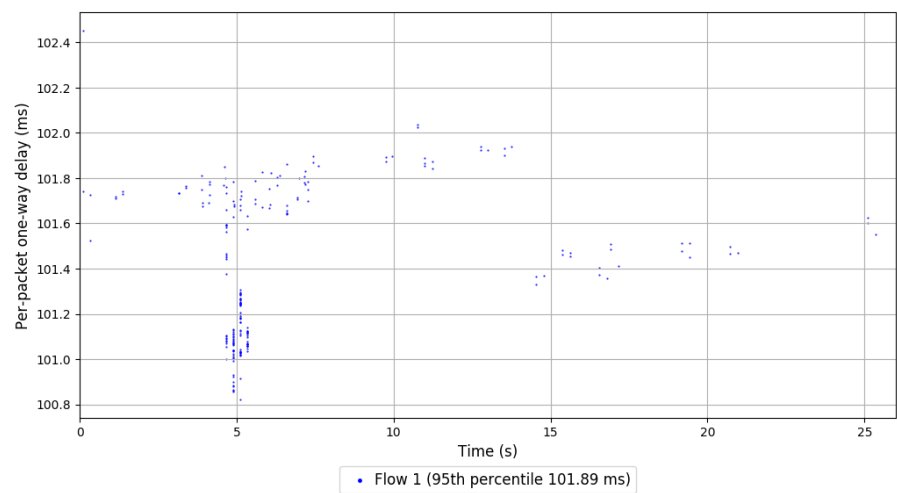
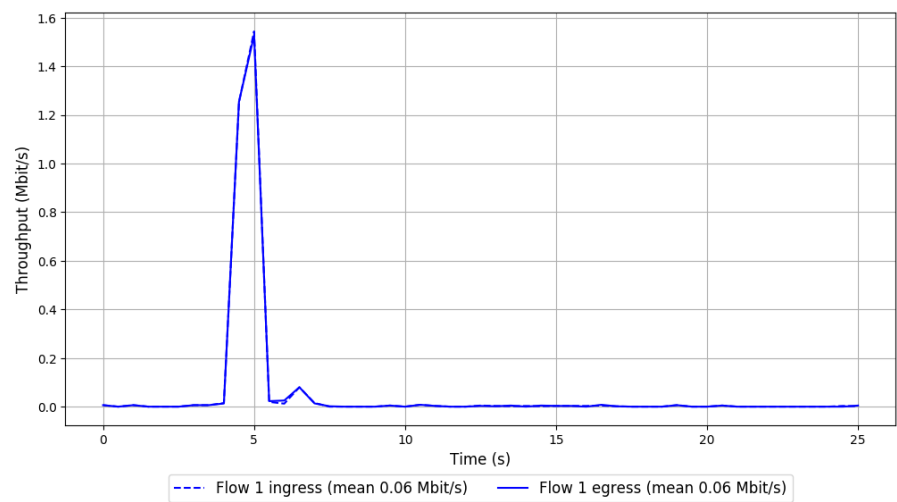


```
Run 1: Statistics of WebRTC media

Start at: 2018-04-16 20:55:20
End at: 2018-04-16 20:55:50

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 101.894 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 101.894 ms
Loss rate: 0.00%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-16 21:09:33

End at: 2018-04-16 21:10:03

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.969 ms

Loss rate: 0.00%

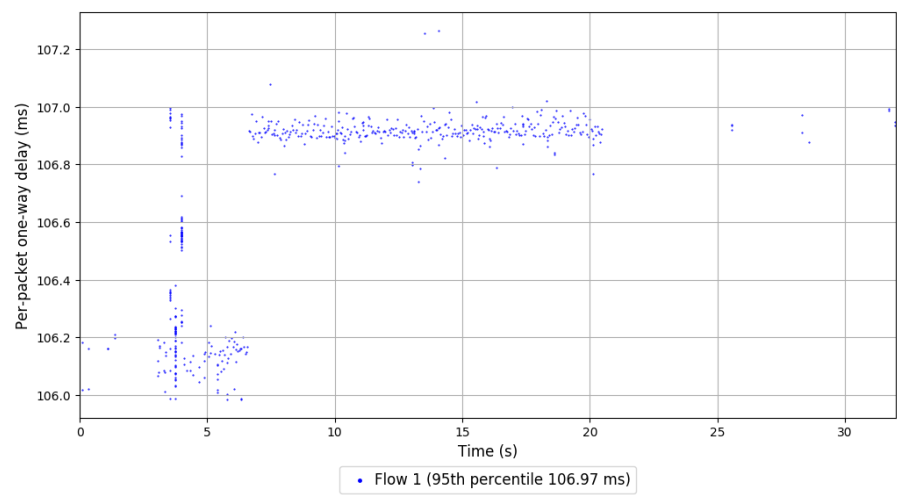
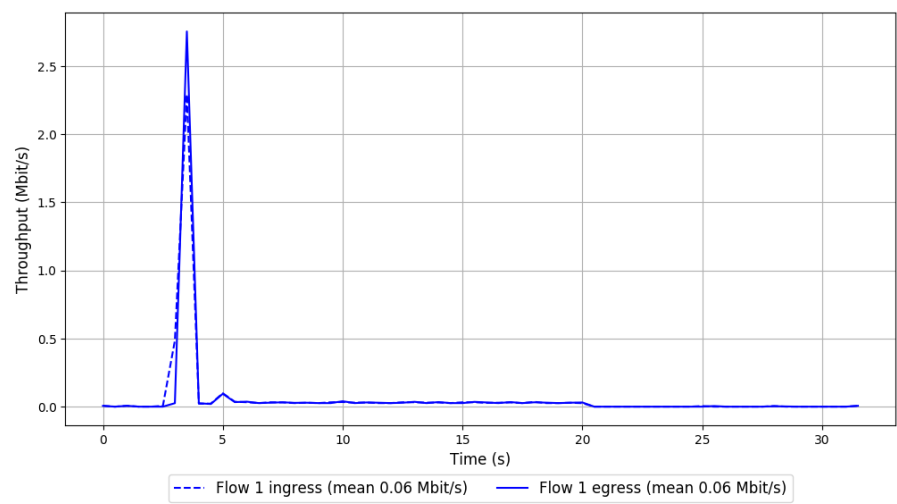
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.969 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-16 21:23:35

End at: 2018-04-16 21:24:05

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 104.106 ms

Loss rate: 0.00%

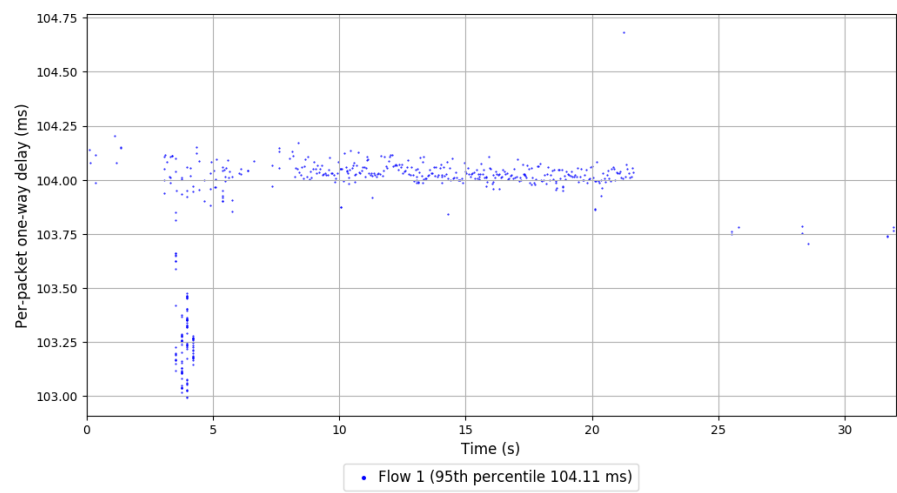
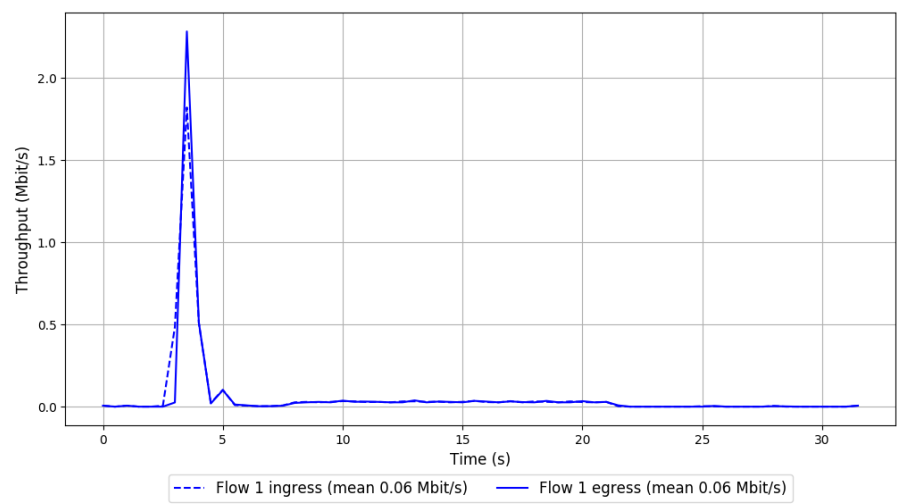
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 104.106 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-16 21:37:37

End at: 2018-04-16 21:38:07

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 110.419 ms

Loss rate: 0.00%

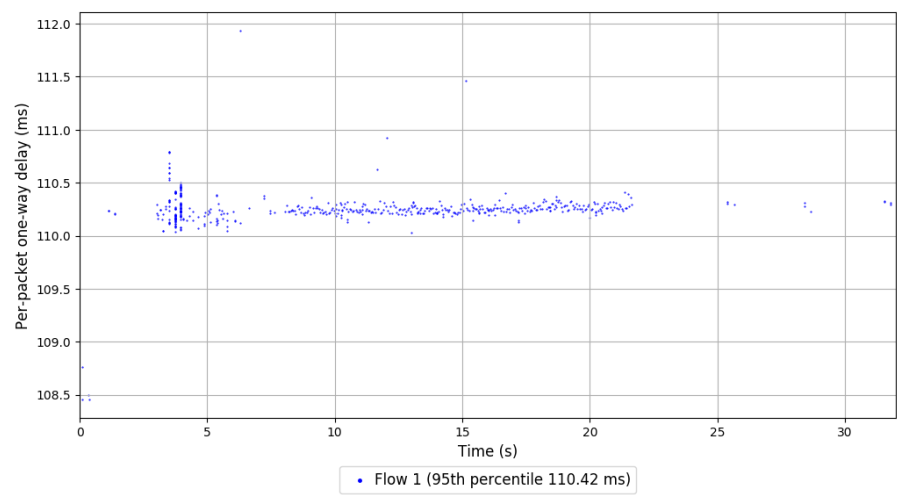
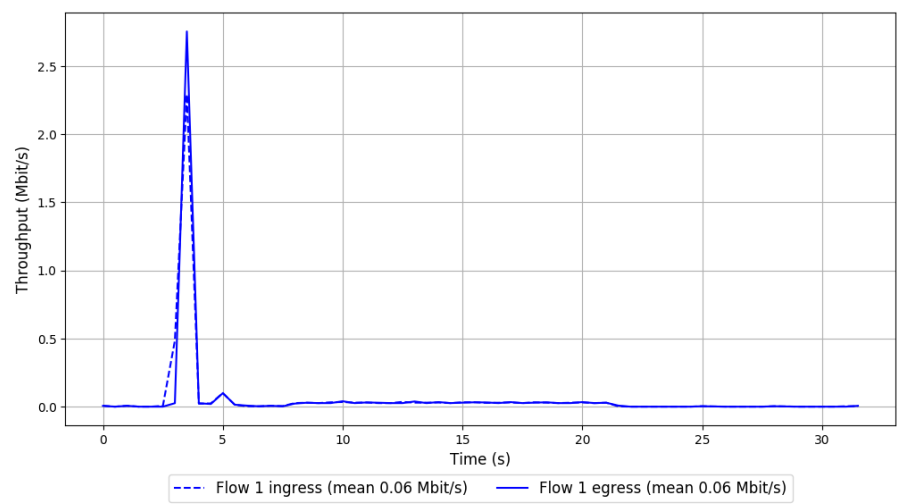
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 110.419 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-16 21:51:42

End at: 2018-04-16 21:52:12

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 111.551 ms

Loss rate: 0.00%

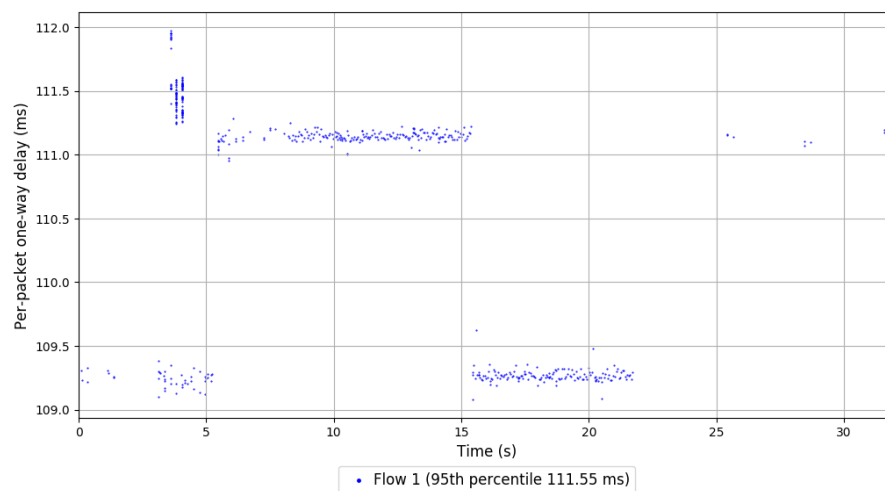
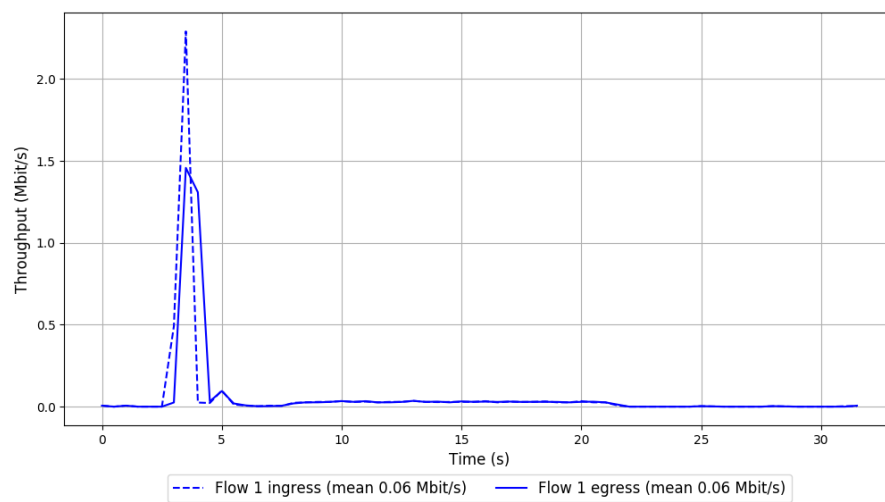
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 111.551 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-16 22:05:48

End at: 2018-04-16 22:06:18

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 111.641 ms

Loss rate: 0.00%

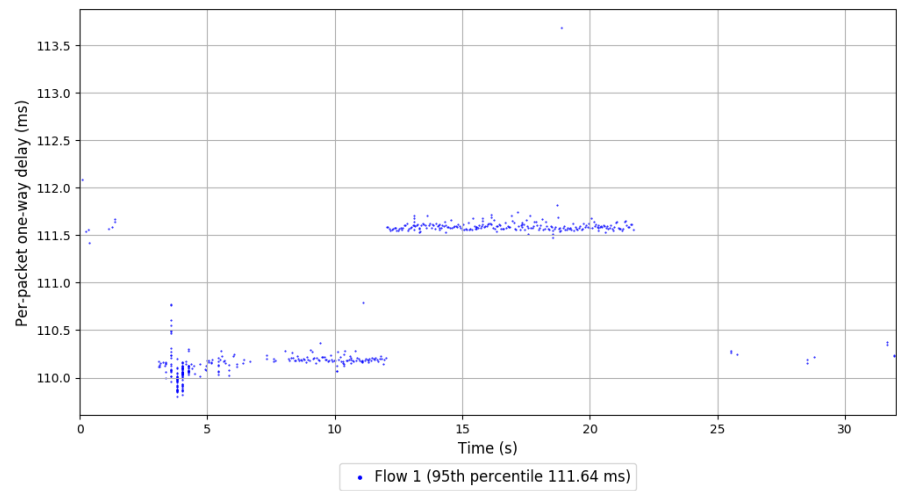
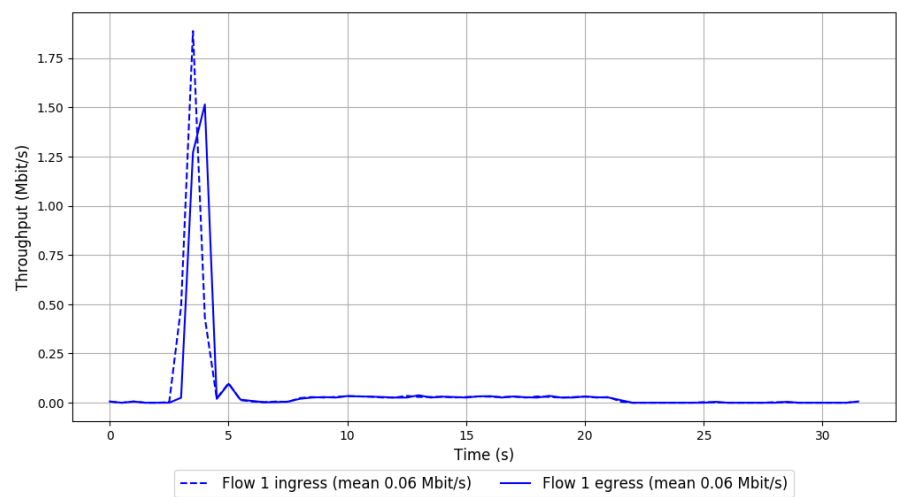
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 111.641 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-16 22:19:37

End at: 2018-04-16 22:20:07

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 0.00%

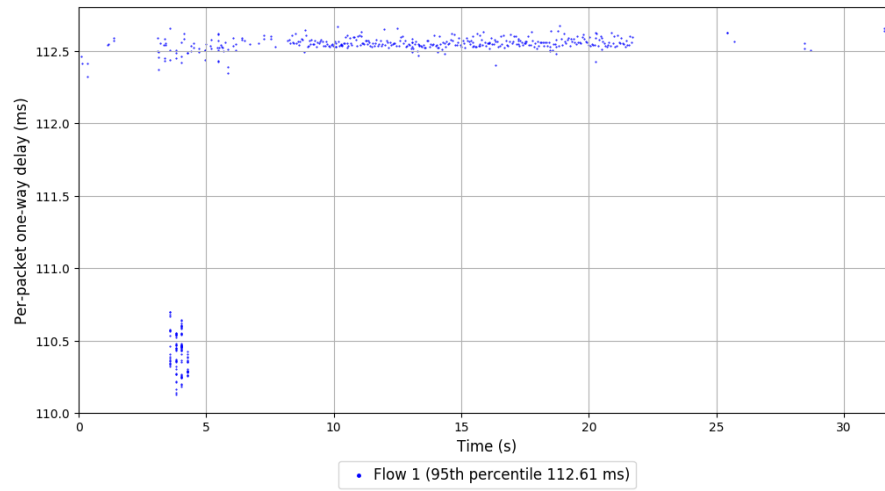
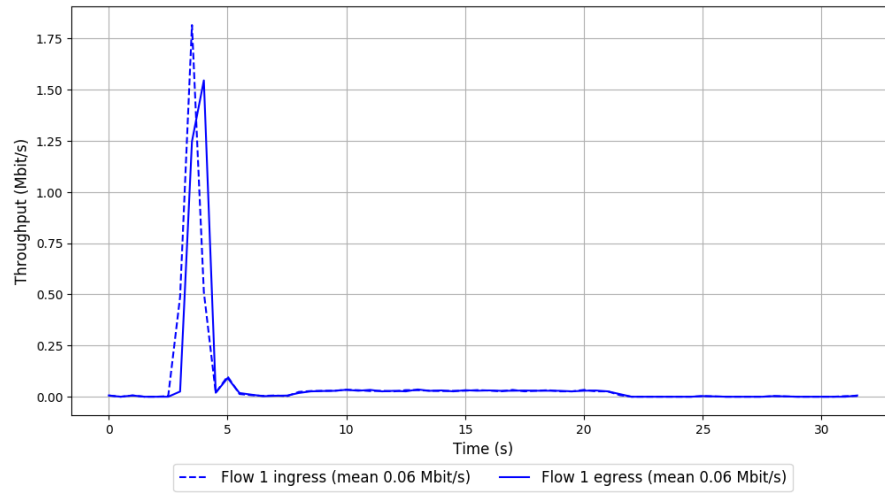
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.612 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-16 22:33:29

End at: 2018-04-16 22:33:59

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.174 ms

Loss rate: 0.00%

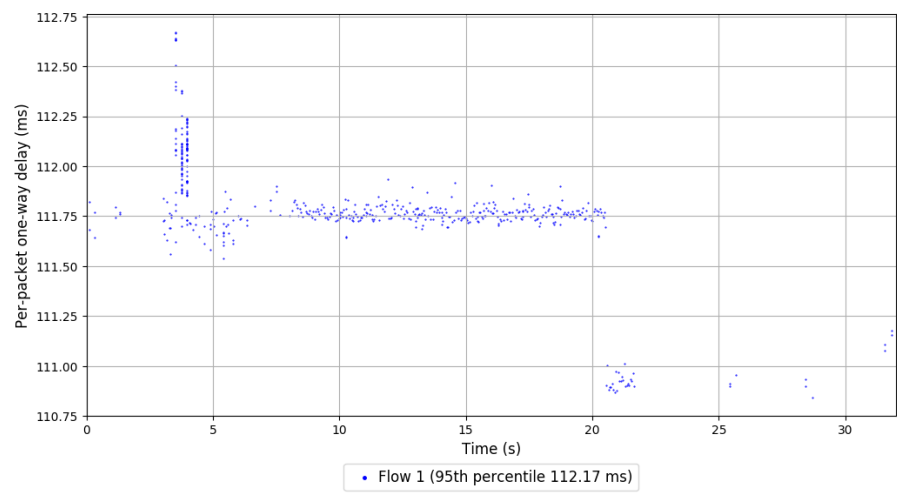
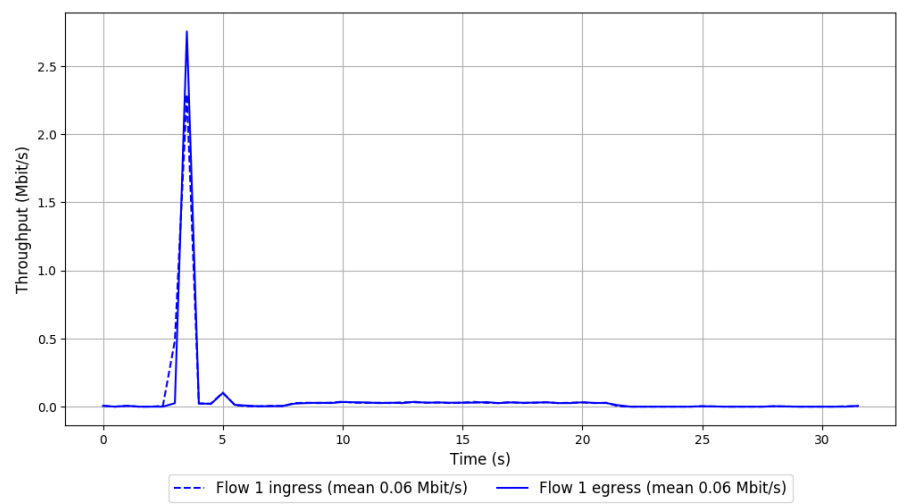
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.174 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-16 22:47:21

End at: 2018-04-16 22:47:51

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.314 ms

Loss rate: 0.00%

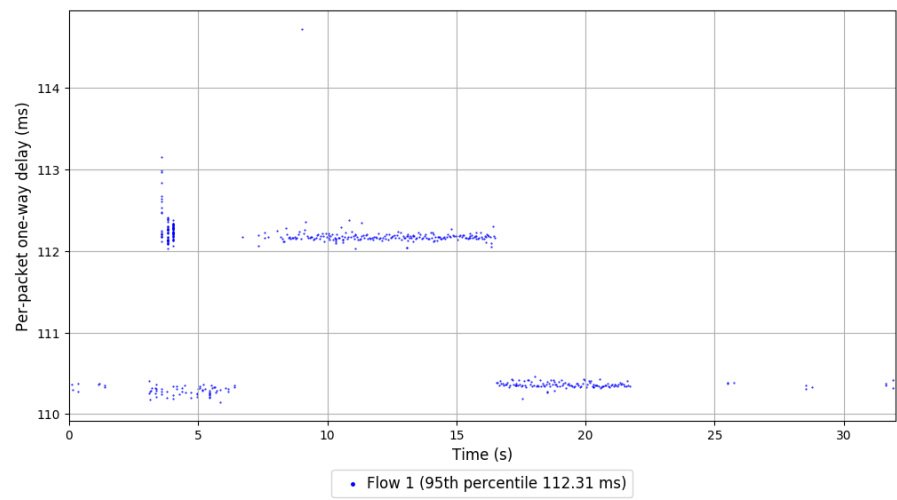
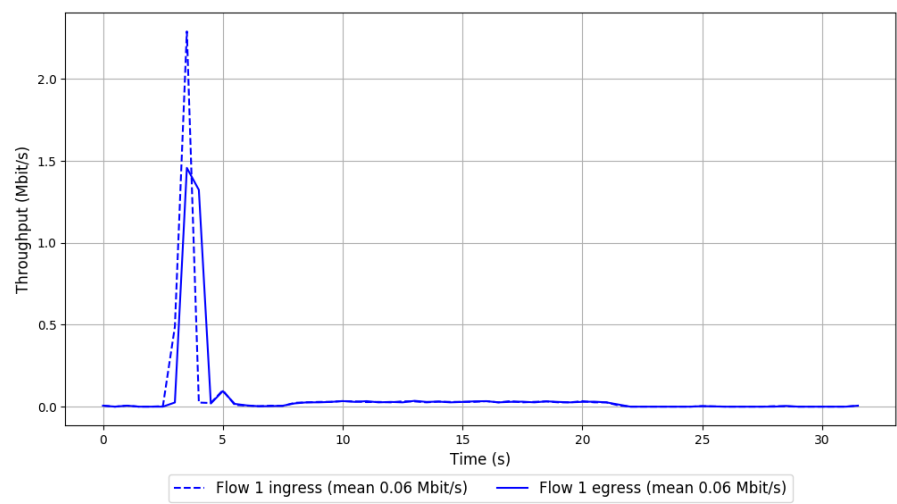
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.314 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-16 23:01:26

End at: 2018-04-16 23:01:56

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.700 ms

Loss rate: 0.00%

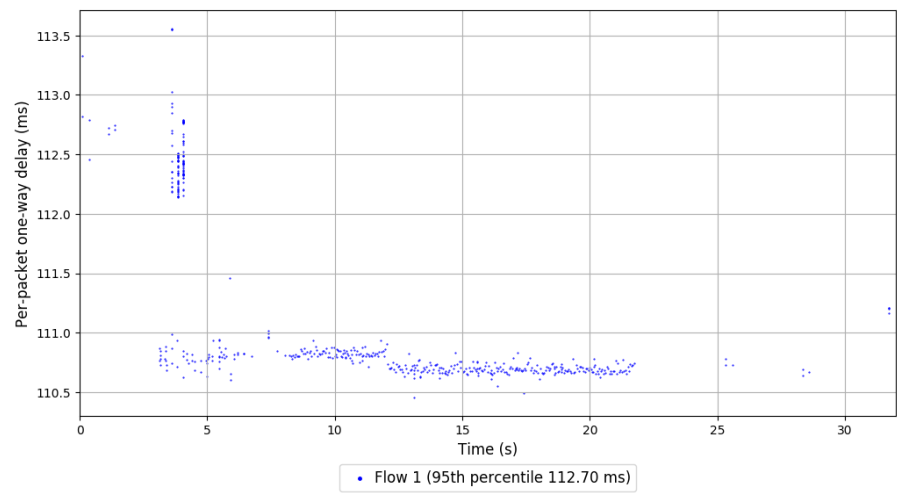
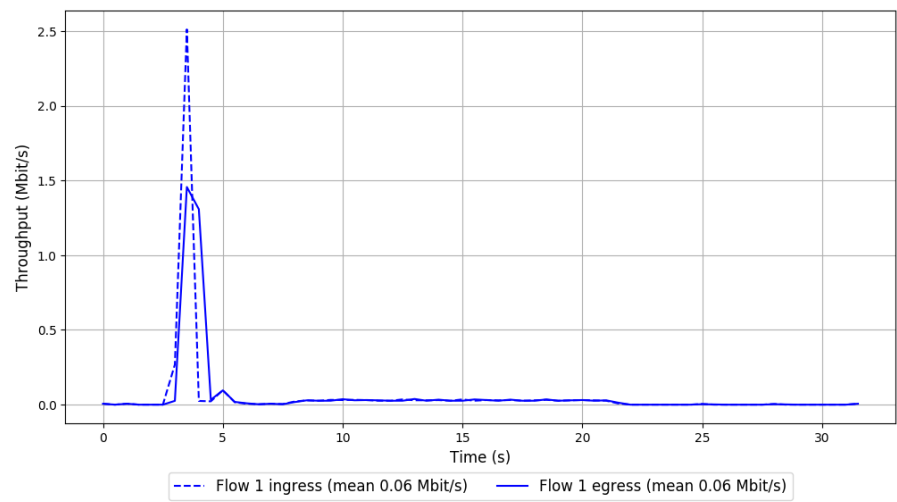
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 112.700 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

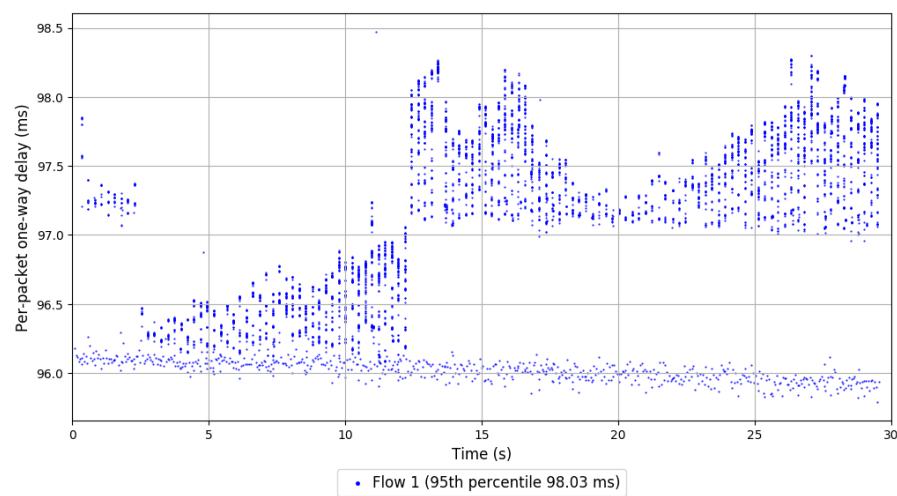
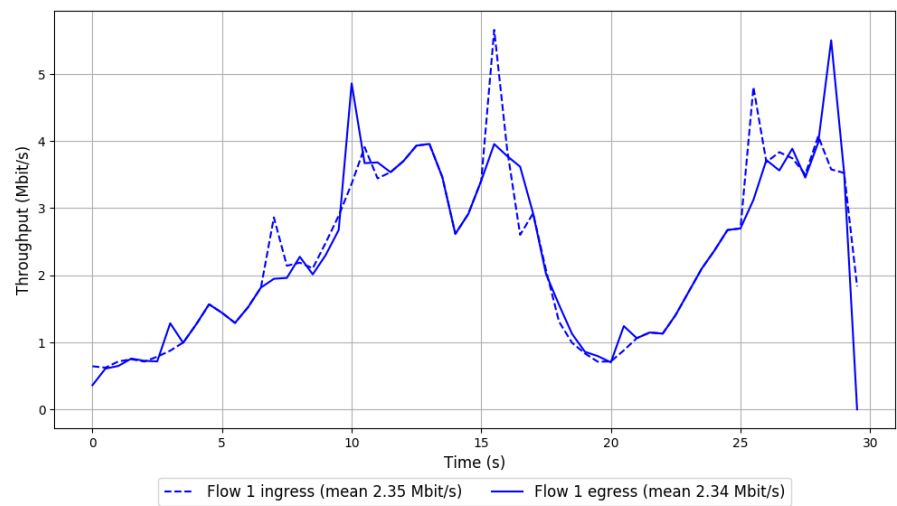


```
Run 1: Statistics of Sprout

Start at: 2018-04-16 20:50:22
End at: 2018-04-16 20:50:52

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 98.030 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 98.030 ms
Loss rate: 1.32%
```

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-16 21:04:15

End at: 2018-04-16 21:04:45

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 106.401 ms

Loss rate: 0.82%

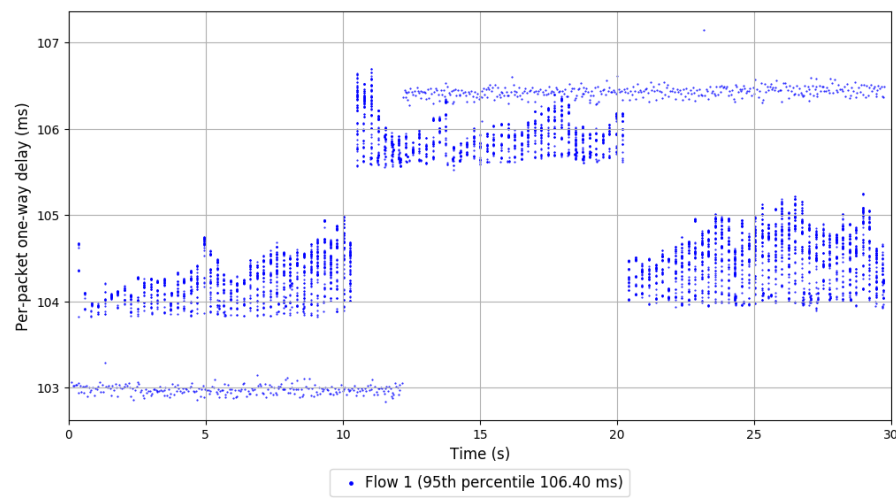
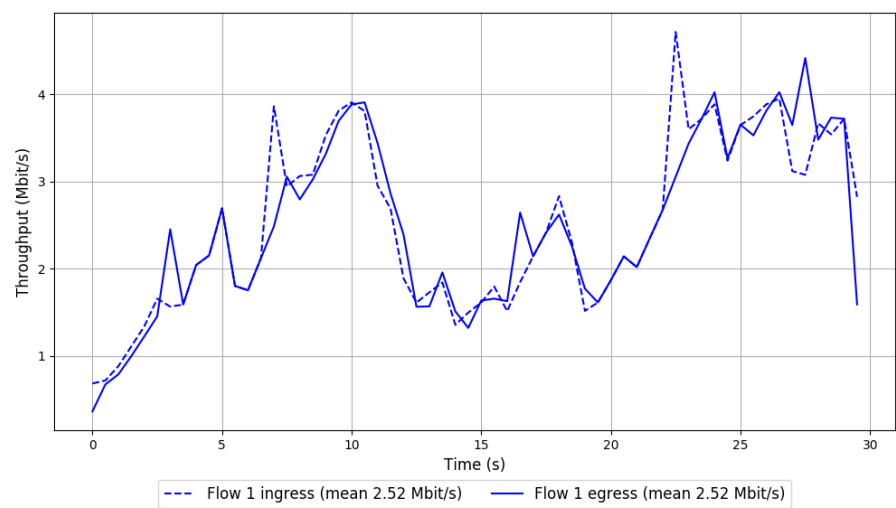
-- Flow 1:

Average throughput: 2.52 Mbit/s

95th percentile per-packet one-way delay: 106.401 ms

Loss rate: 0.82%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-16 21:18:24

End at: 2018-04-16 21:18:54

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 107.116 ms

Loss rate: 1.06%

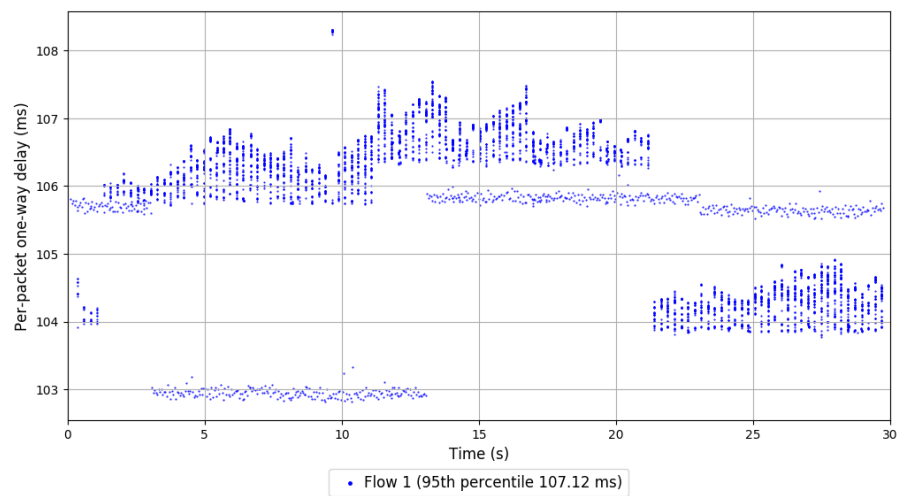
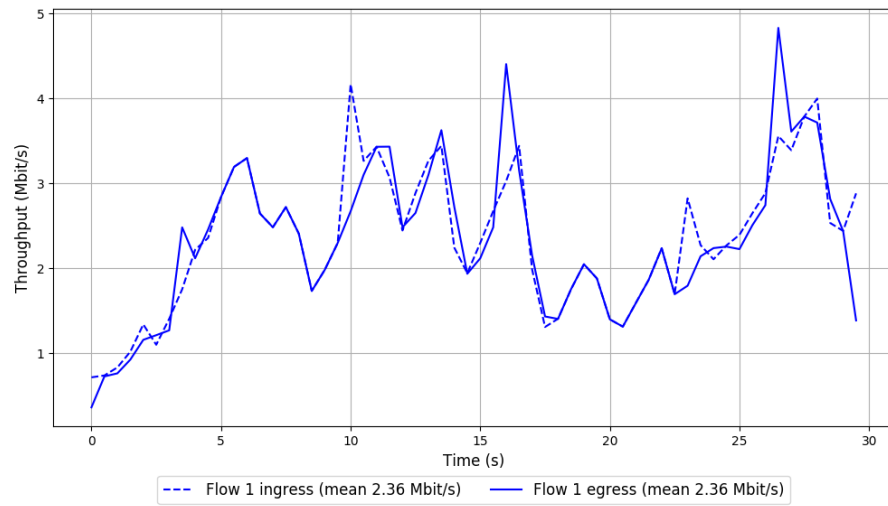
-- Flow 1:

Average throughput: 2.36 Mbit/s

95th percentile per-packet one-way delay: 107.116 ms

Loss rate: 1.06%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-16 21:32:21

End at: 2018-04-16 21:32:51

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 110.031 ms

Loss rate: 0.79%

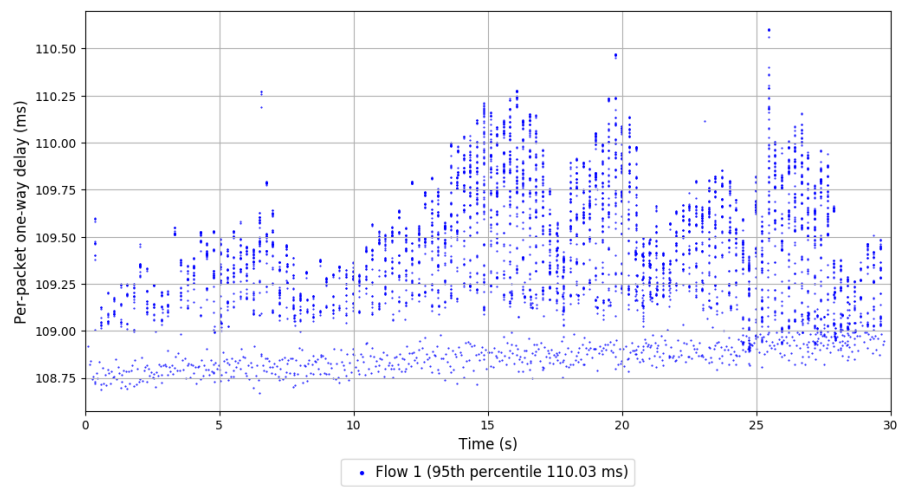
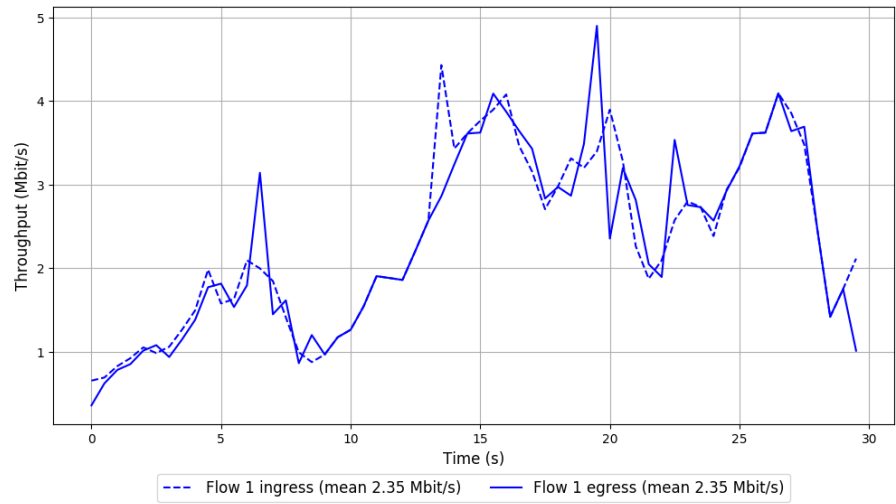
-- Flow 1:

Average throughput: 2.35 Mbit/s

95th percentile per-packet one-way delay: 110.031 ms

Loss rate: 0.79%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-16 21:46:22

End at: 2018-04-16 21:46:52

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 112.073 ms

Loss rate: 1.06%

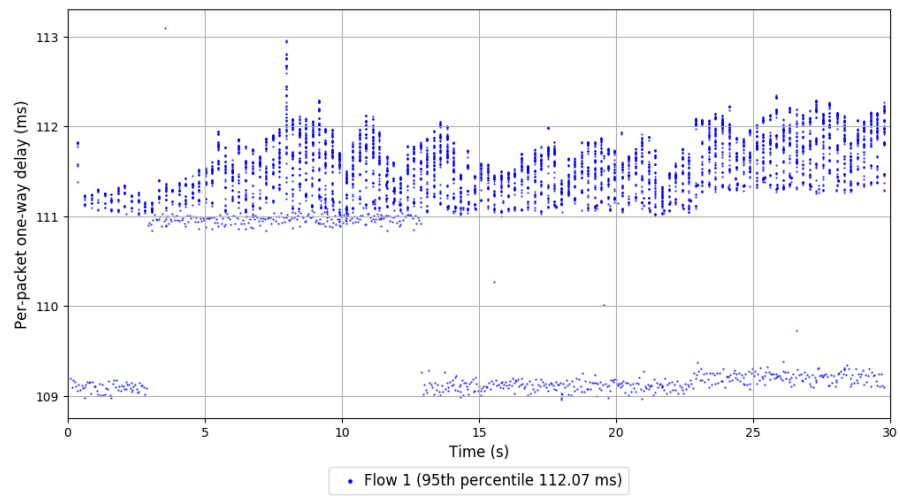
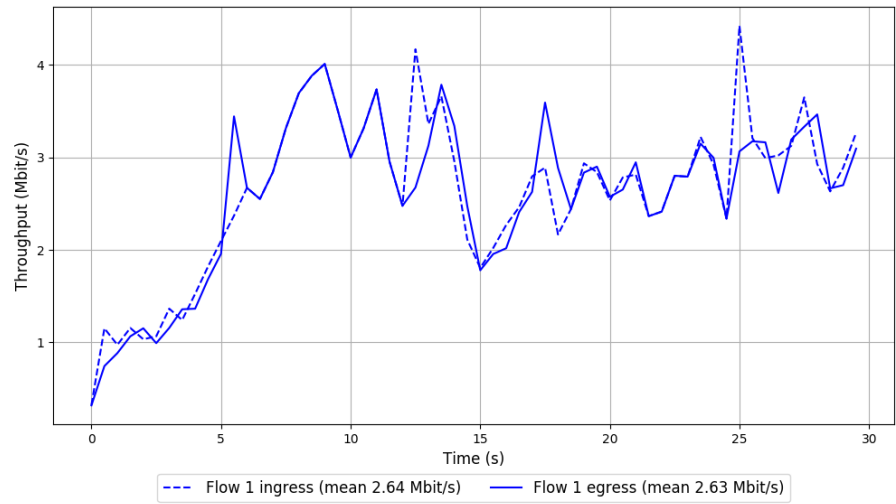
-- Flow 1:

Average throughput: 2.63 Mbit/s

95th percentile per-packet one-way delay: 112.073 ms

Loss rate: 1.06%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-16 22:00:33

End at: 2018-04-16 22:01:03

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 111.002 ms

Loss rate: 1.64%

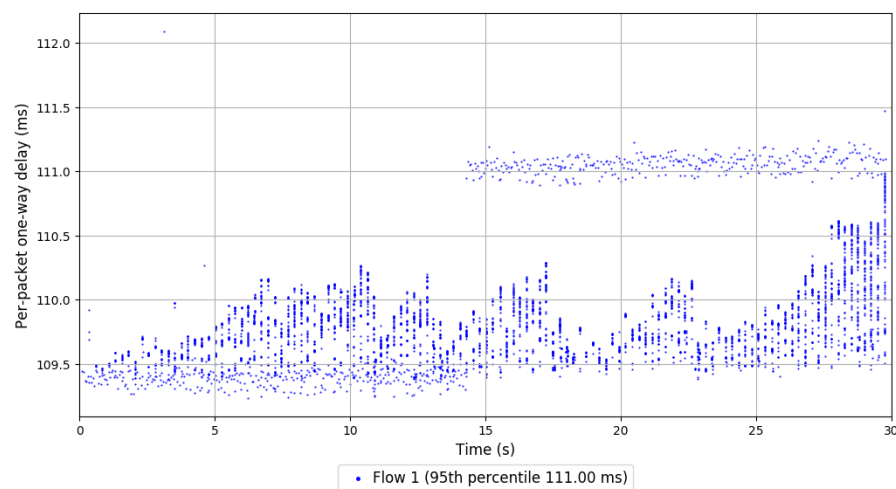
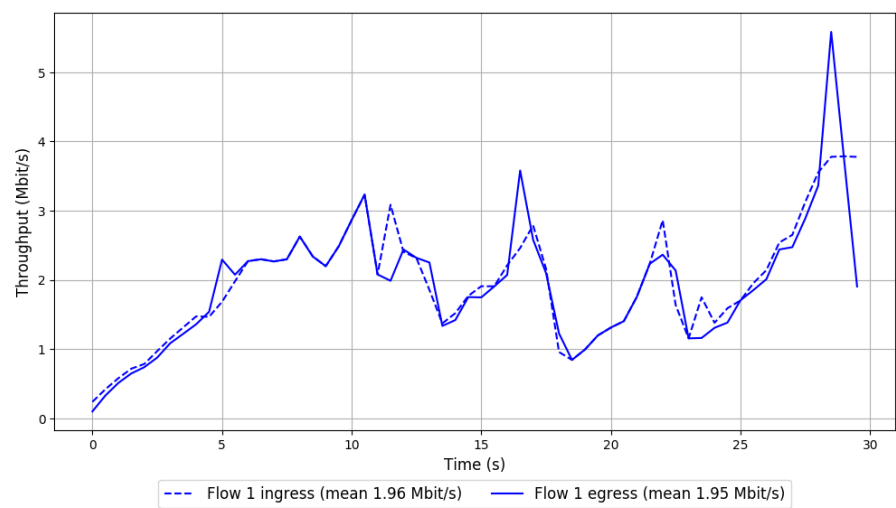
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 111.002 ms

Loss rate: 1.64%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-16 22:14:36

End at: 2018-04-16 22:15:06

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 111.137 ms

Loss rate: 1.40%

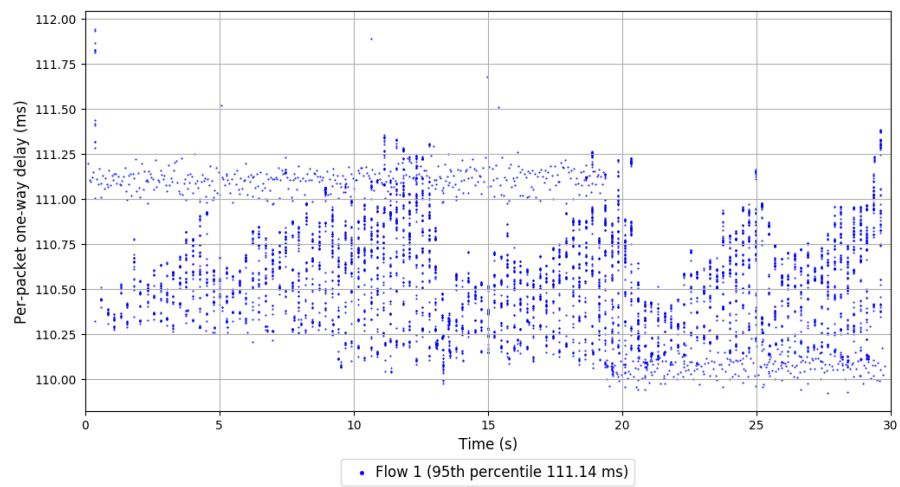
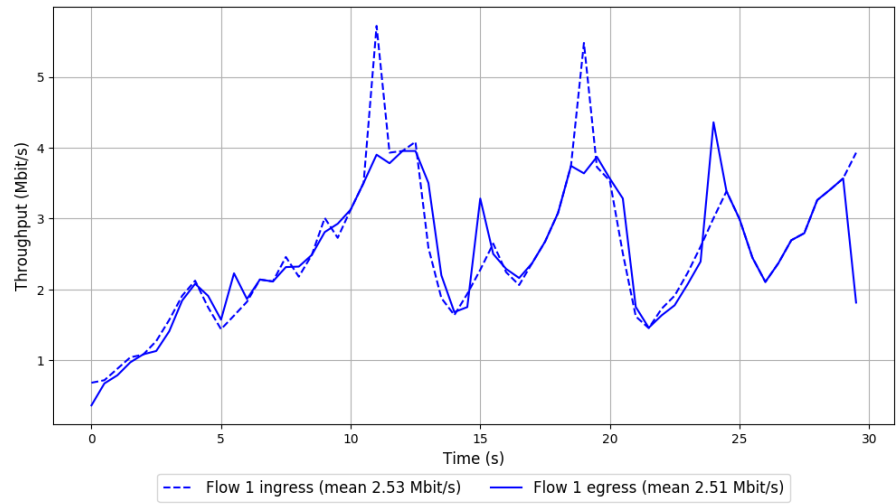
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 111.137 ms

Loss rate: 1.40%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-16 22:28:23

End at: 2018-04-16 22:28:53

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 113.105 ms

Loss rate: 1.01%

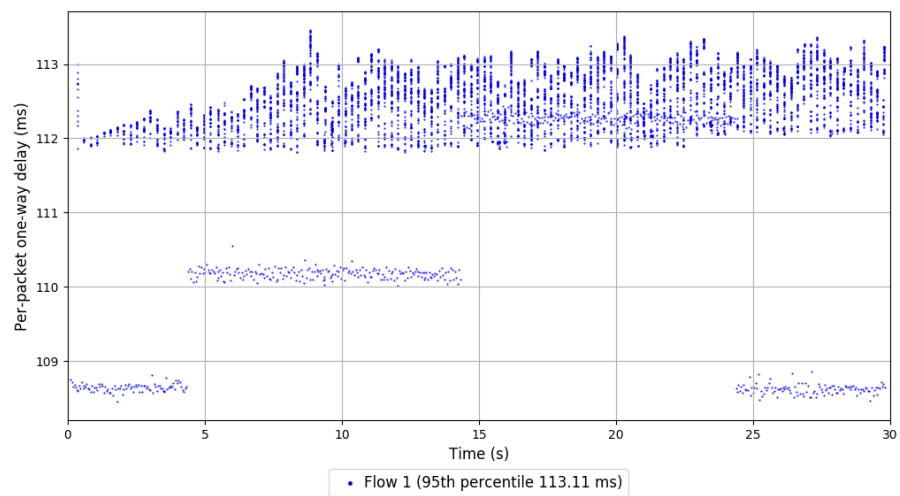
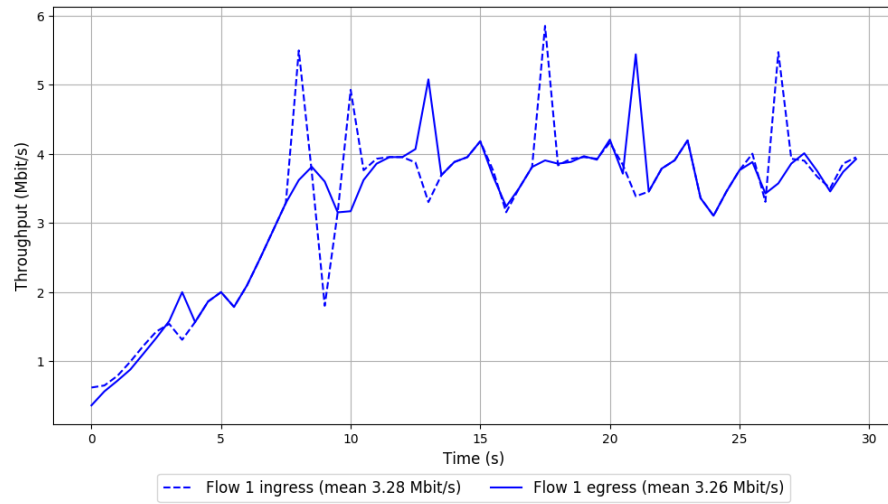
-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 113.105 ms

Loss rate: 1.01%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-16 22:42:07

End at: 2018-04-16 22:42:37

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.197 ms

Loss rate: 1.30%

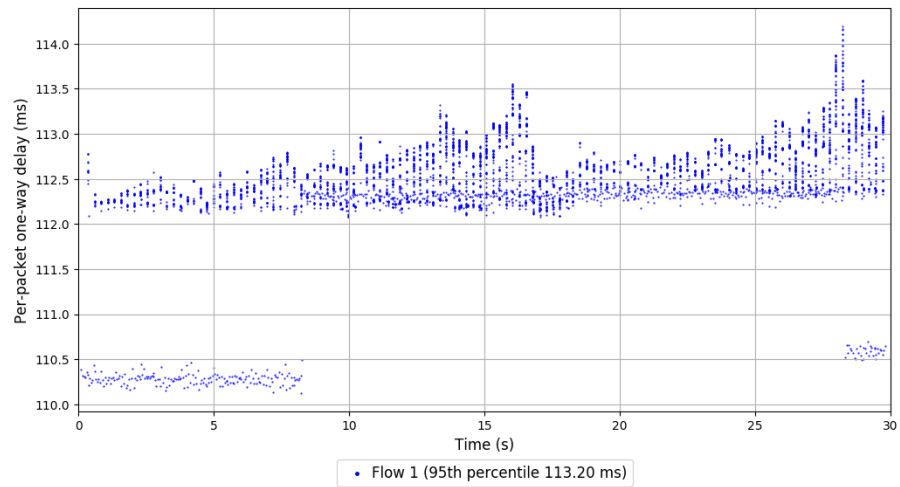
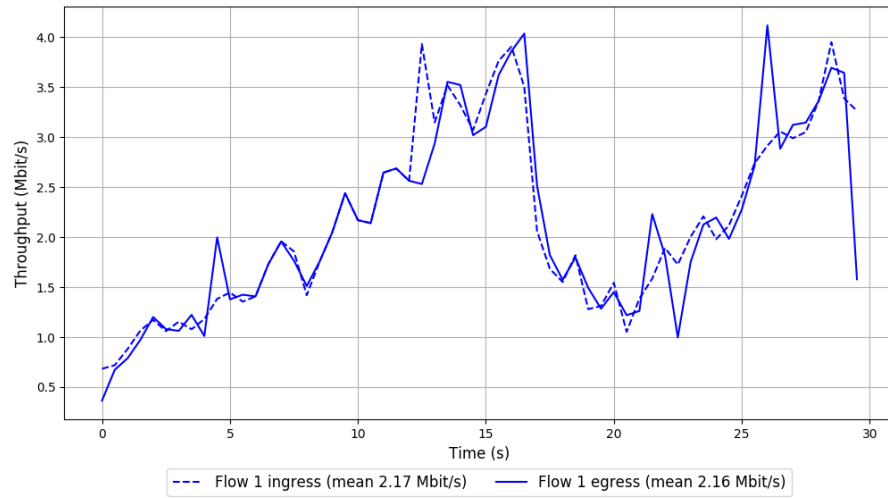
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 113.197 ms

Loss rate: 1.30%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-16 22:56:04

End at: 2018-04-16 22:56:34

Below is generated by plot.py at 2018-04-17 01:51:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 113.346 ms

Loss rate: 0.88%

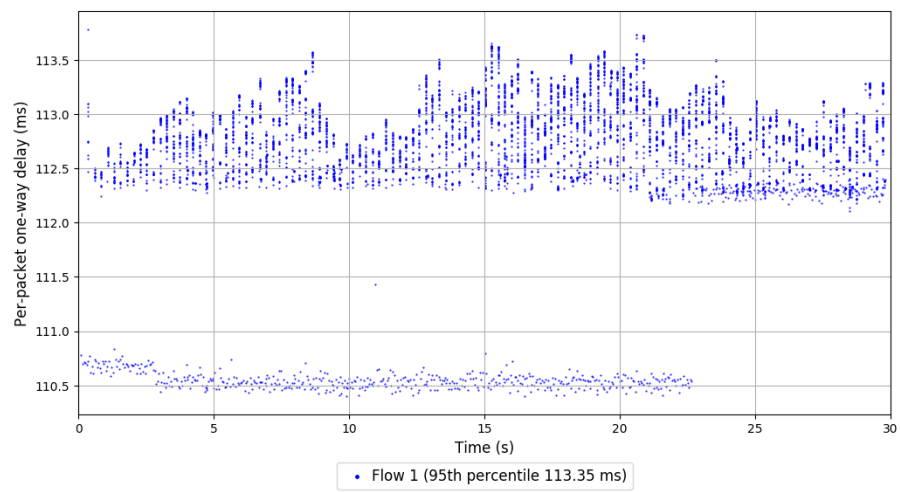
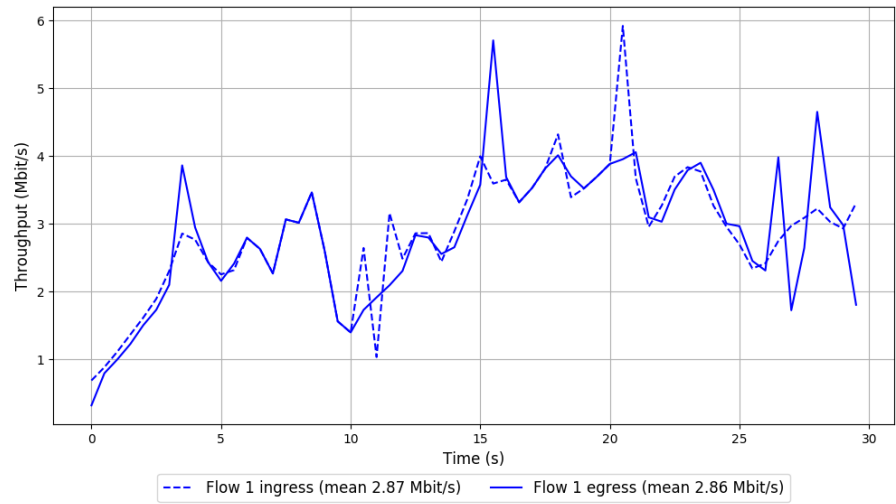
-- Flow 1:

Average throughput: 2.86 Mbit/s

95th percentile per-packet one-way delay: 113.346 ms

Loss rate: 0.88%

Run 10: Report of Sprout — Data Link

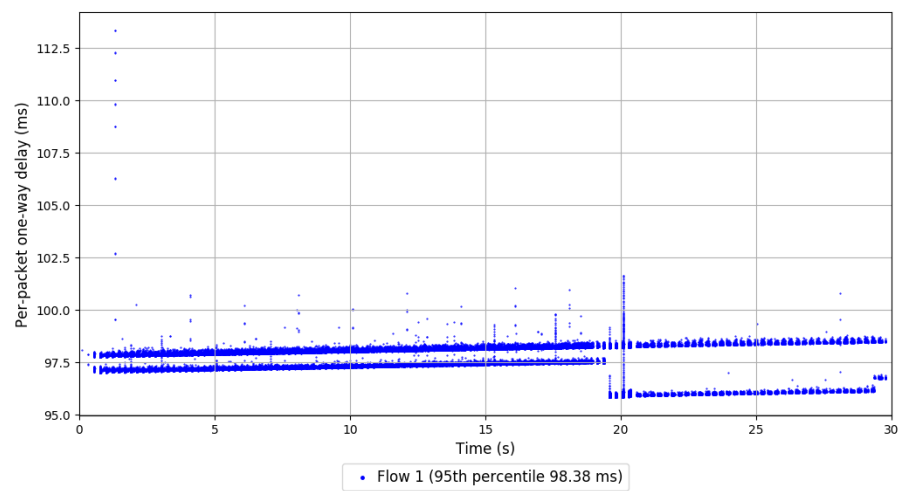
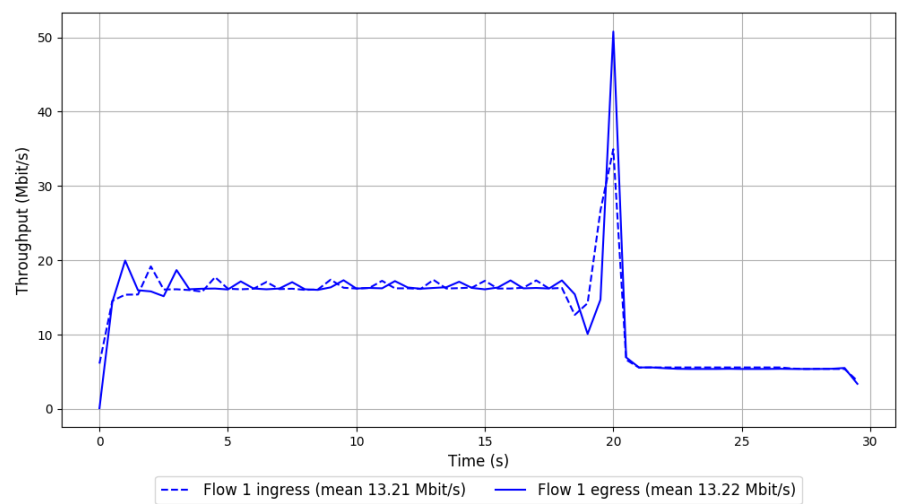


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-16 20:52:16
End at: 2018-04-16 20:52:46

# Below is generated by plot.py at 2018-04-17 01:51:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 98.378 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 98.378 ms
Loss rate: 0.28%
```


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

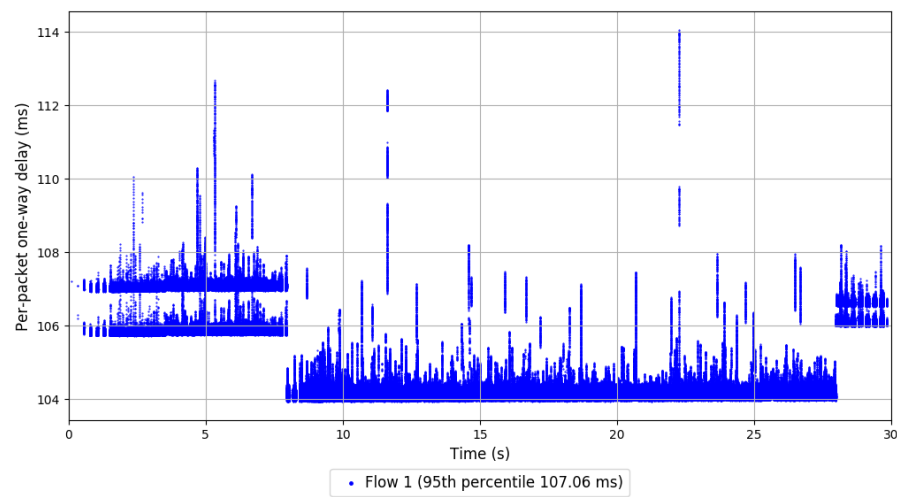
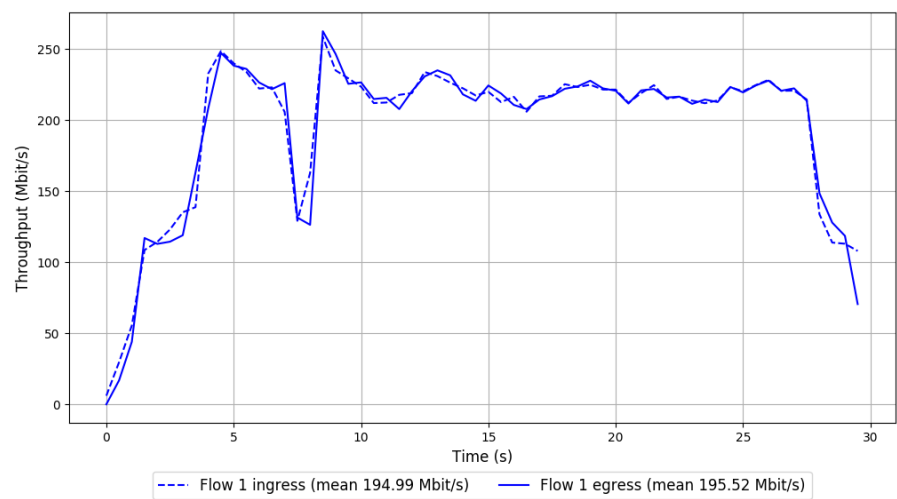


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-16 21:06:07
End at: 2018-04-16 21:06:37

# Below is generated by plot.py at 2018-04-17 01:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.52 Mbit/s
95th percentile per-packet one-way delay: 107.056 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 195.52 Mbit/s
95th percentile per-packet one-way delay: 107.056 ms
Loss rate: 0.43%
```

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

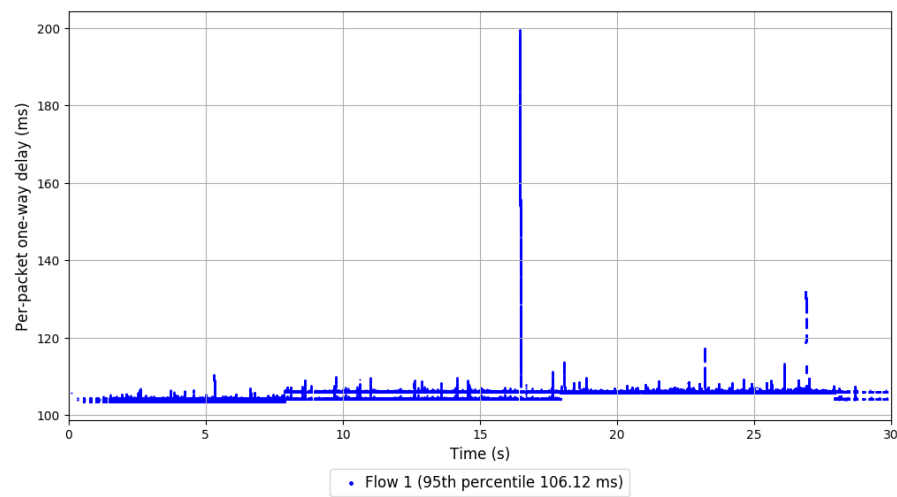
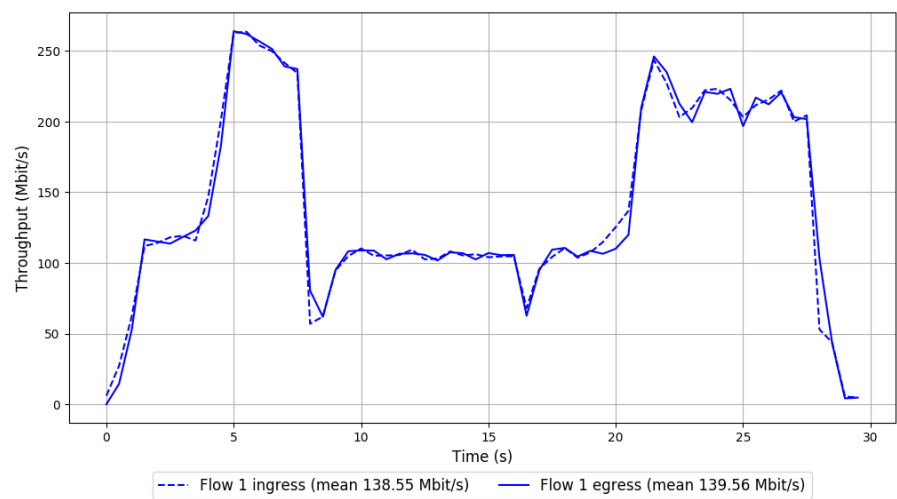


```
Run 3: Statistics of TaoVA-100x

Start at: 2018-04-16 21:20:17
End at: 2018-04-16 21:20:47

# Below is generated by plot.py at 2018-04-17 01:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 139.56 Mbit/s
95th percentile per-packet one-way delay: 106.121 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 139.56 Mbit/s
95th percentile per-packet one-way delay: 106.121 ms
Loss rate: 0.03%
```

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

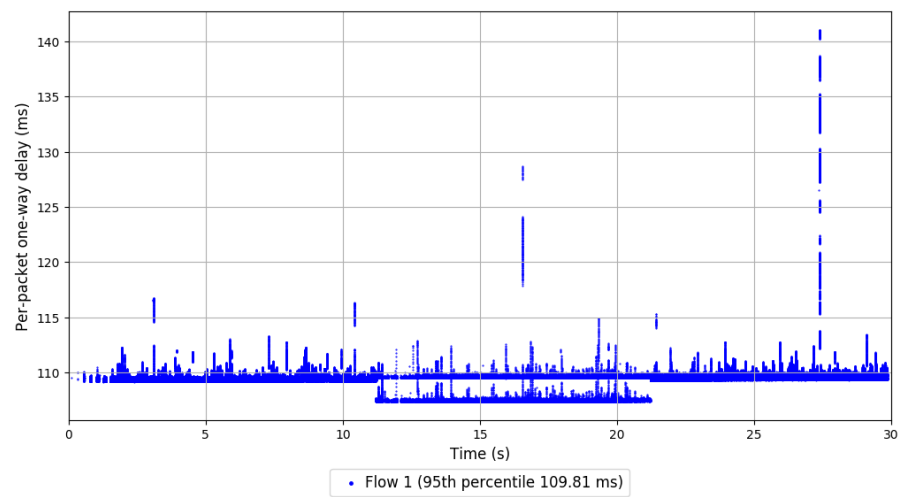
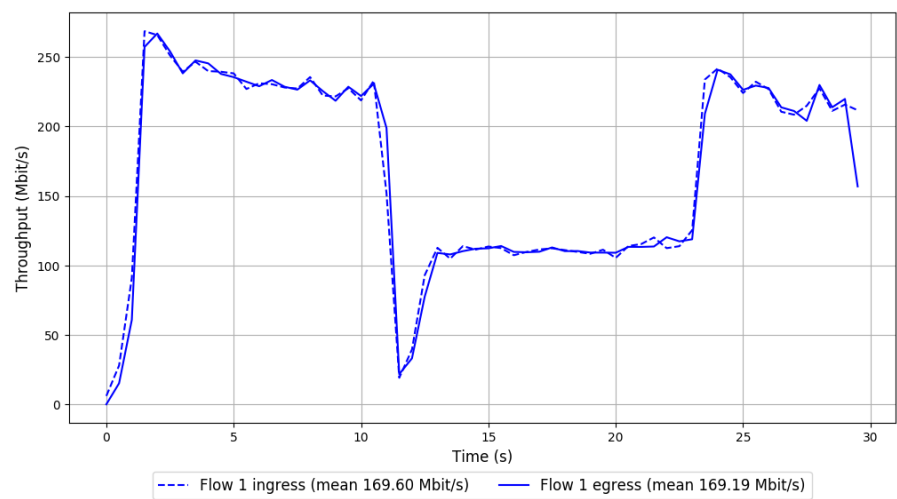


```
Run 4: Statistics of TaoVA-100x

Start at: 2018-04-16 21:34:14
End at: 2018-04-16 21:34:44

# Below is generated by plot.py at 2018-04-17 01:51:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 169.19 Mbit/s
95th percentile per-packet one-way delay: 109.811 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 169.19 Mbit/s
95th percentile per-packet one-way delay: 109.811 ms
Loss rate: 0.98%
```

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-16 21:48:15

End at: 2018-04-16 21:48:45

Below is generated by plot.py at 2018-04-17 01:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 111.444 ms

Loss rate: 0.75%

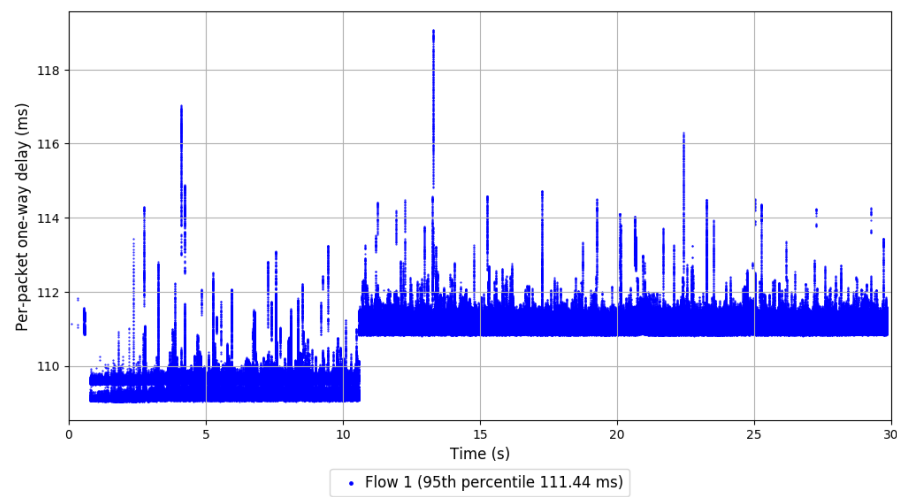
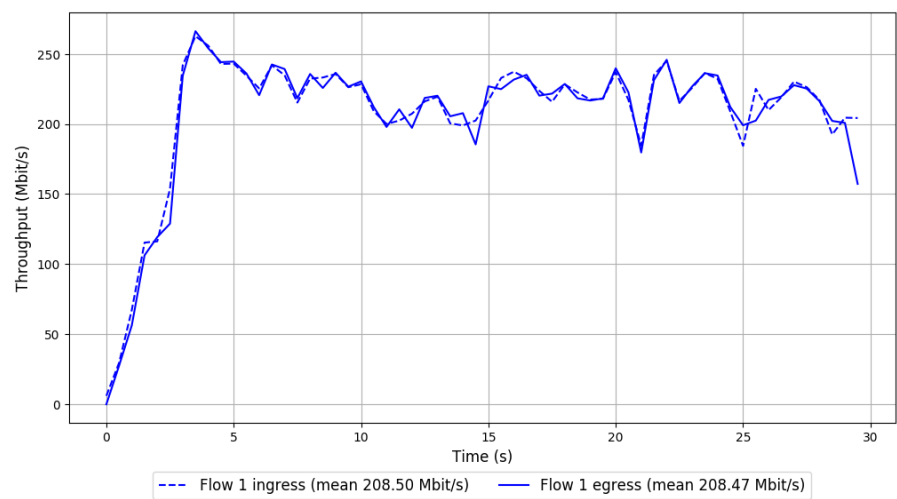
-- Flow 1:

Average throughput: 208.47 Mbit/s

95th percentile per-packet one-way delay: 111.444 ms

Loss rate: 0.75%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-16 22:02:25

End at: 2018-04-16 22:02:55

Below is generated by plot.py at 2018-04-17 01:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.48 Mbit/s

95th percentile per-packet one-way delay: 111.235 ms

Loss rate: 0.42%

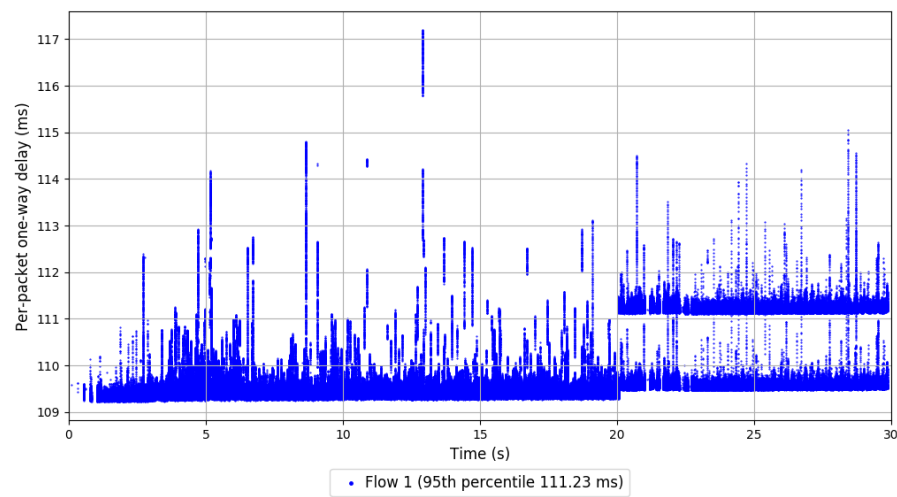
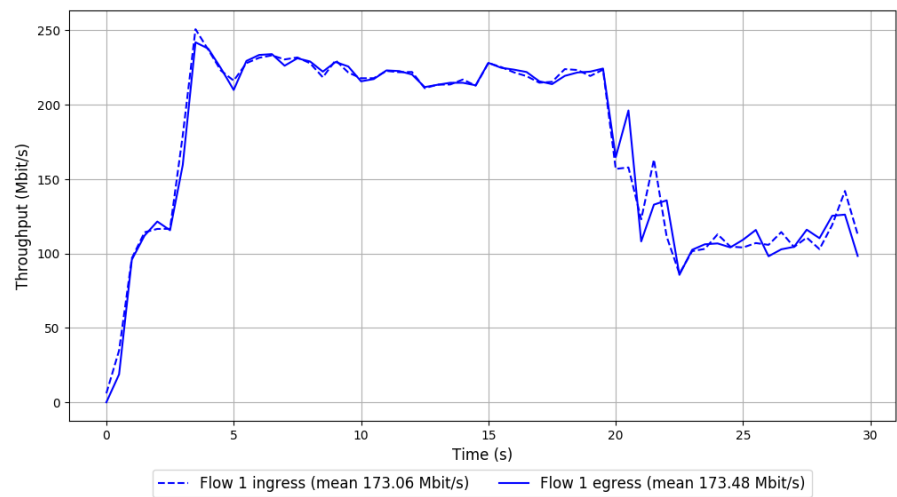
-- Flow 1:

Average throughput: 173.48 Mbit/s

95th percentile per-packet one-way delay: 111.235 ms

Loss rate: 0.42%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-16 22:16:29

End at: 2018-04-16 22:16:59

Below is generated by plot.py at 2018-04-17 01:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 112.442 ms

Loss rate: 0.75%

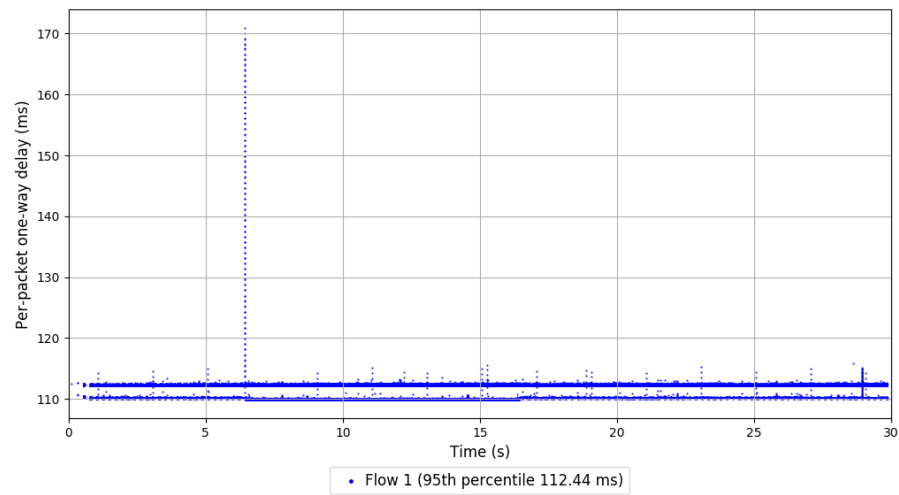
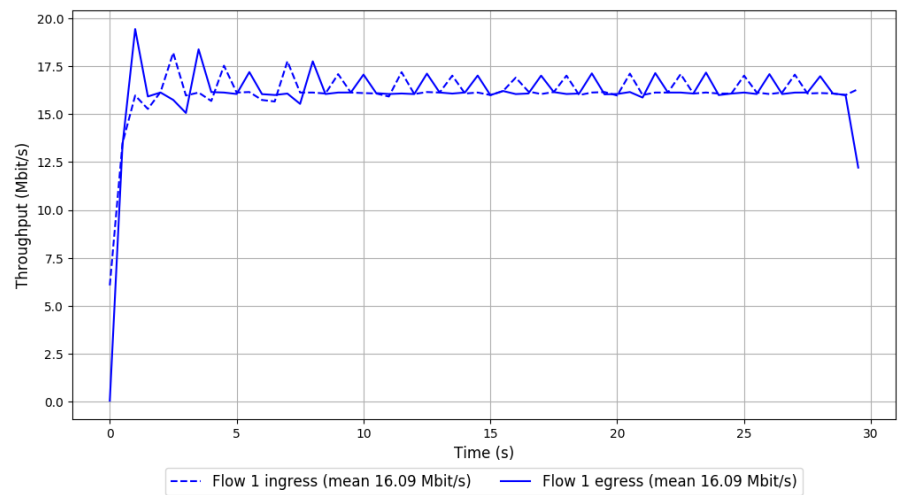
-- Flow 1:

Average throughput: 16.09 Mbit/s

95th percentile per-packet one-way delay: 112.442 ms

Loss rate: 0.75%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-16 22:30:15

End at: 2018-04-16 22:30:45

Below is generated by plot.py at 2018-04-17 01:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 112.115 ms

Loss rate: 0.05%

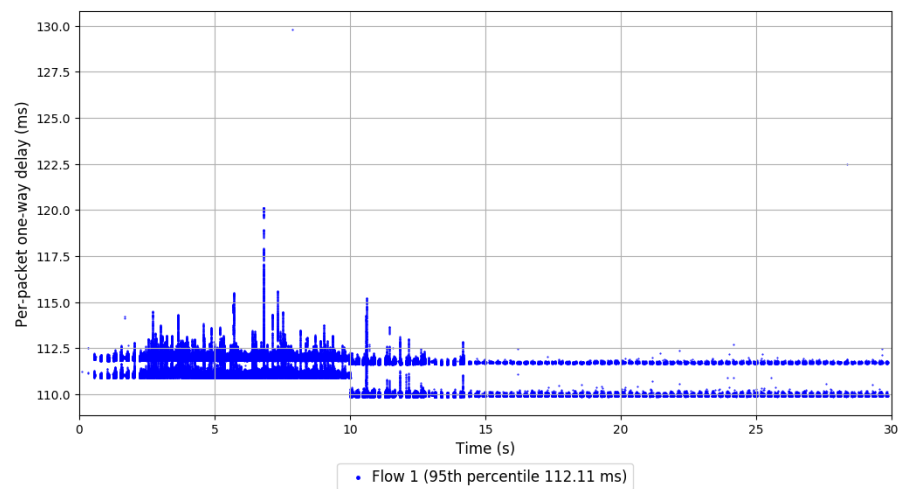
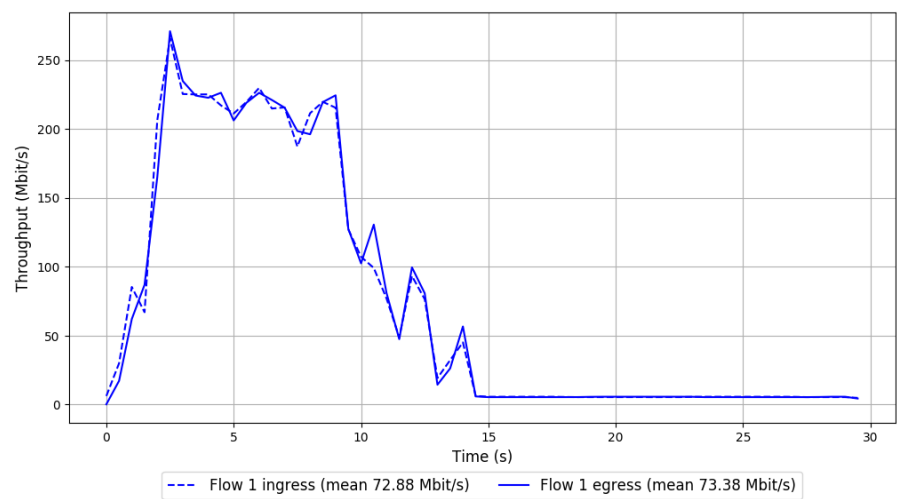
-- Flow 1:

Average throughput: 73.38 Mbit/s

95th percentile per-packet one-way delay: 112.115 ms

Loss rate: 0.05%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-16 22:44:00

End at: 2018-04-16 22:44:30

Below is generated by plot.py at 2018-04-17 01:52:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 112.272 ms

Loss rate: 0.75%

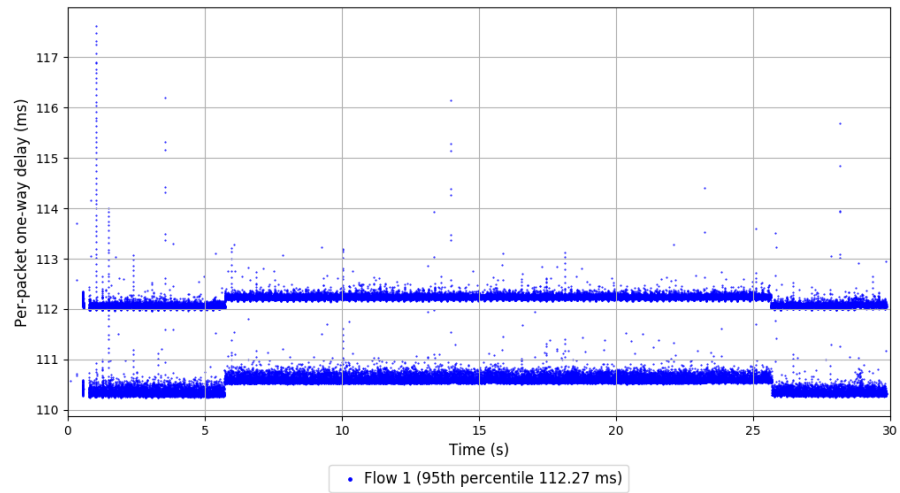
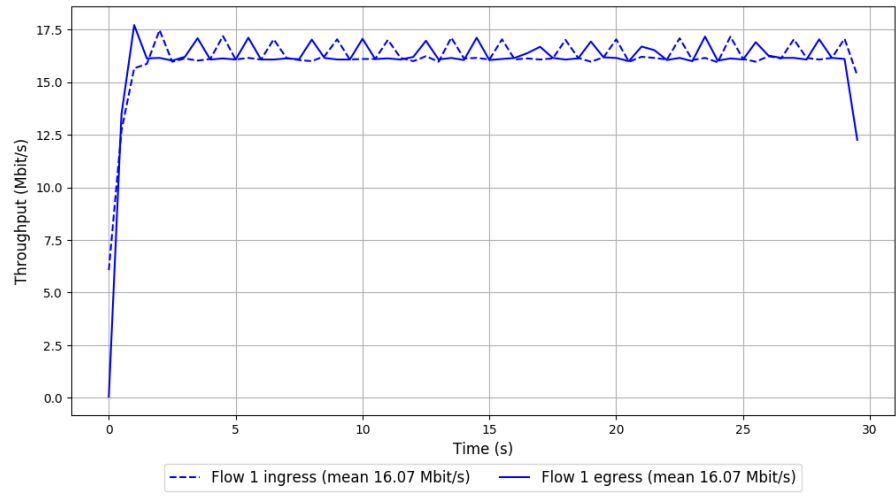
-- Flow 1:

Average throughput: 16.07 Mbit/s

95th percentile per-packet one-way delay: 112.272 ms

Loss rate: 0.75%

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

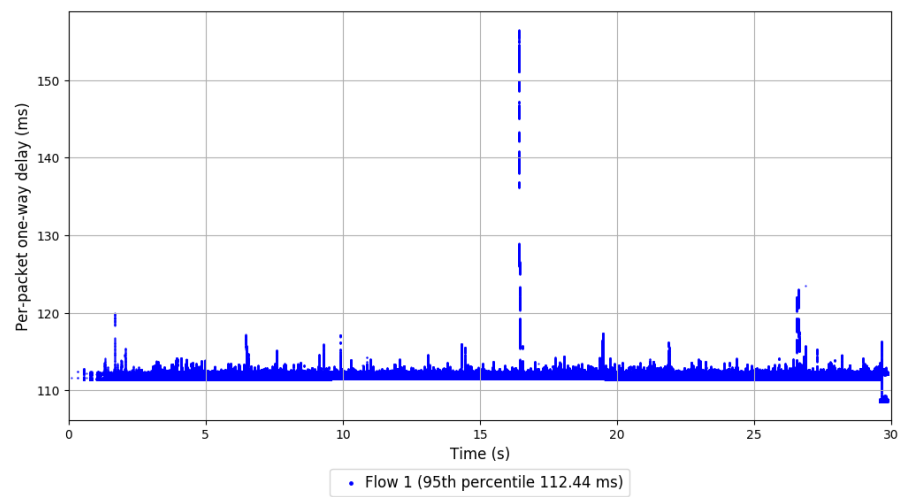
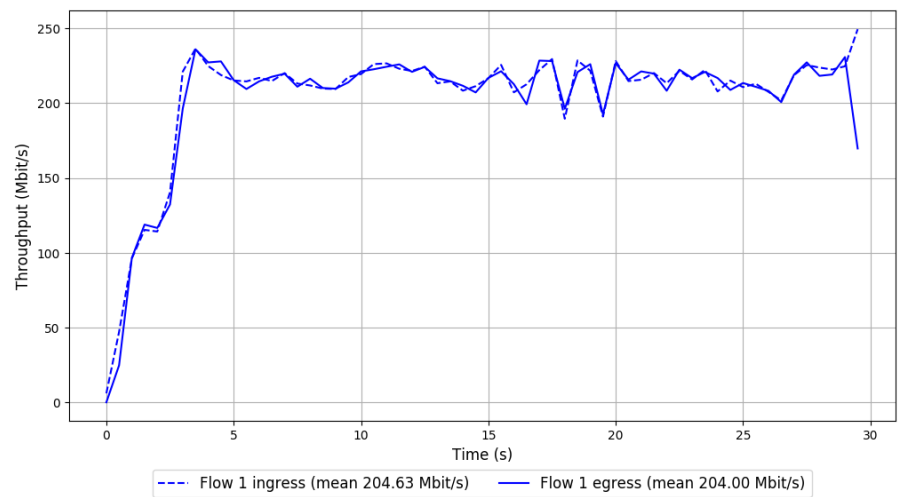


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-16 22:57:57
End at: 2018-04-16 22:58:27

# Below is generated by plot.py at 2018-04-17 01:55:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.00 Mbit/s
95th percentile per-packet one-way delay: 112.441 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 204.00 Mbit/s
95th percentile per-packet one-way delay: 112.441 ms
Loss rate: 1.04%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-16 20:56:41

End at: 2018-04-16 20:57:11

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 104.634 ms

Loss rate: 0.76%

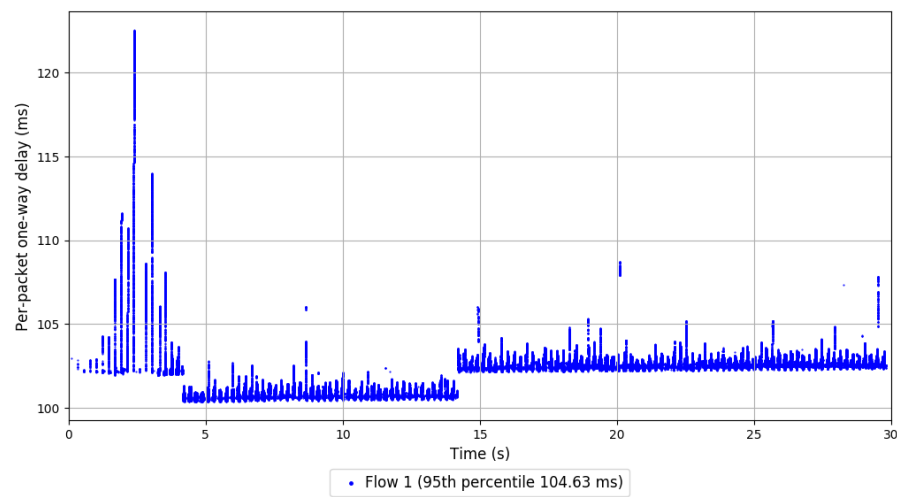
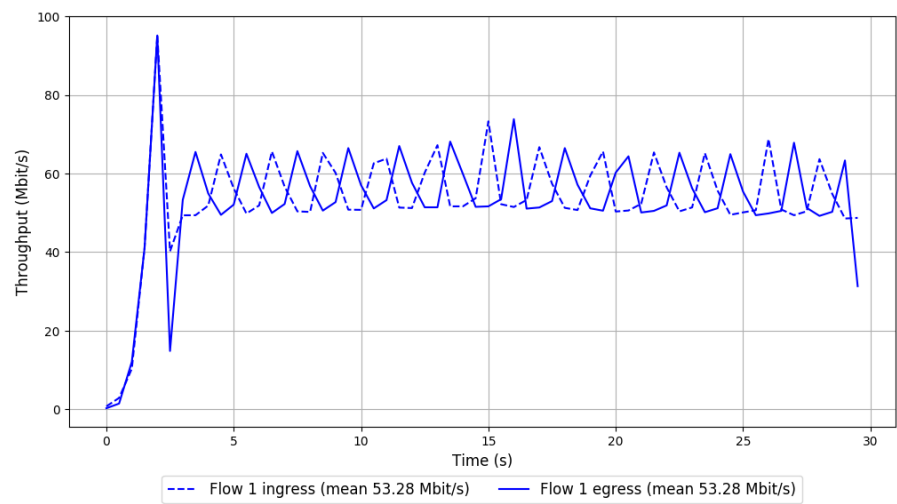
-- Flow 1:

Average throughput: 53.28 Mbit/s

95th percentile per-packet one-way delay: 104.634 ms

Loss rate: 0.76%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-16 21:10:54

End at: 2018-04-16 21:11:24

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 107.323 ms

Loss rate: 0.71%

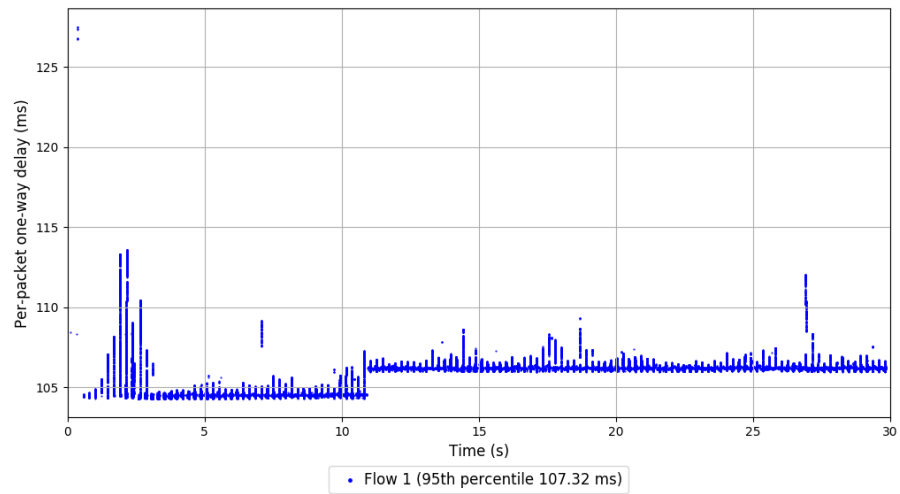
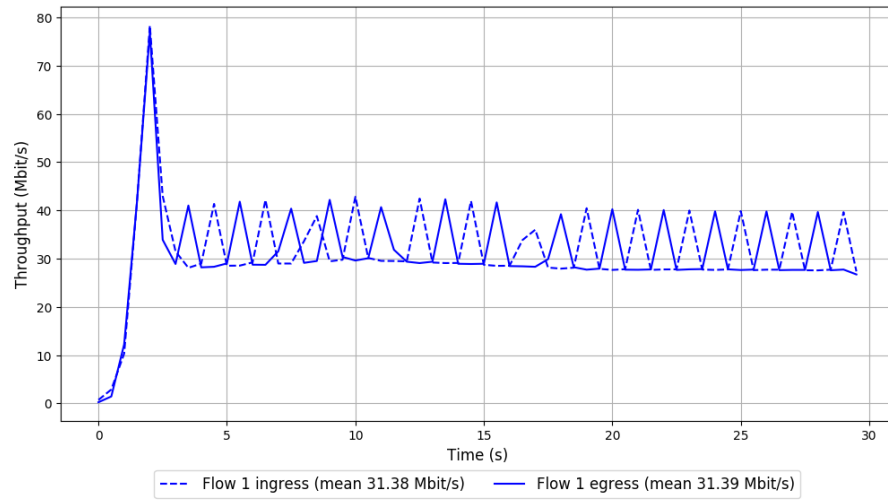
-- Flow 1:

Average throughput: 31.39 Mbit/s

95th percentile per-packet one-way delay: 107.323 ms

Loss rate: 0.71%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-16 21:24:57

End at: 2018-04-16 21:25:27

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 107.045 ms

Loss rate: 0.82%

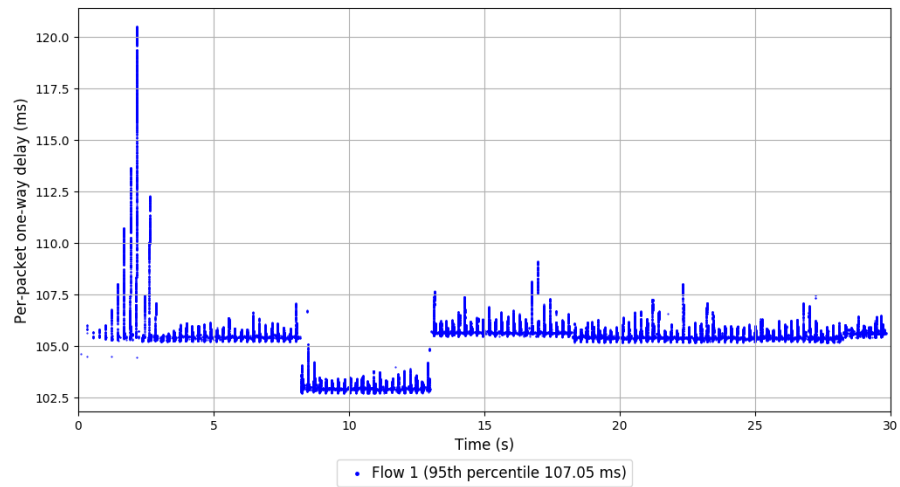
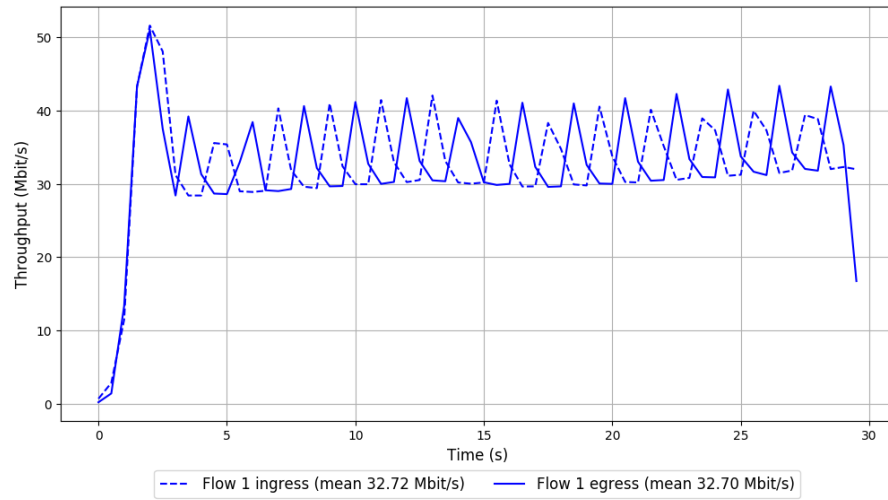
-- Flow 1:

Average throughput: 32.70 Mbit/s

95th percentile per-packet one-way delay: 107.045 ms

Loss rate: 0.82%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-16 21:38:58

End at: 2018-04-16 21:39:28

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 111.764 ms

Loss rate: 0.80%

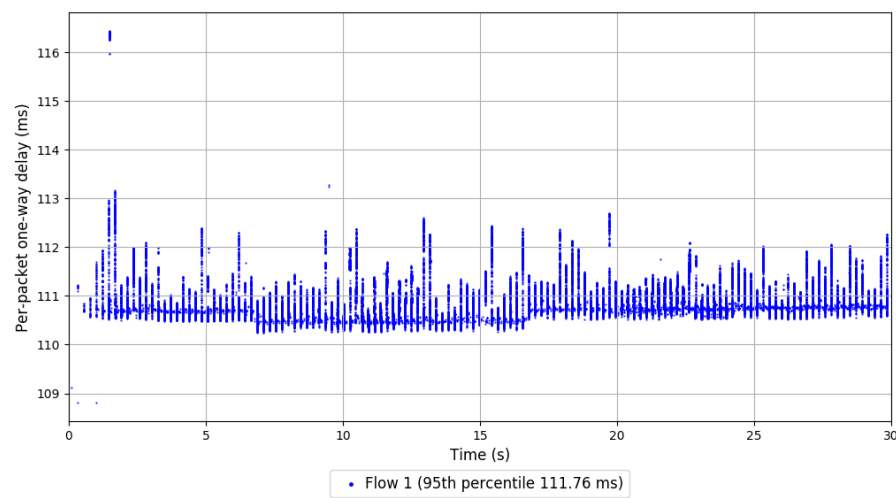
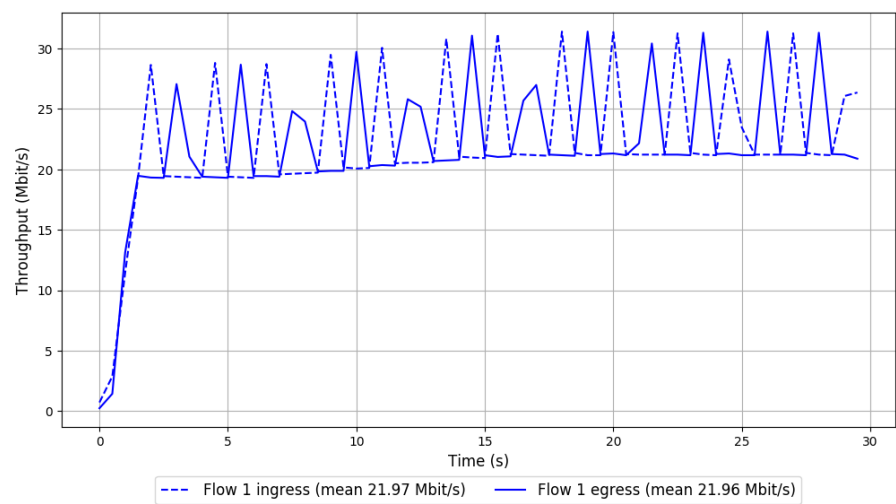
-- Flow 1:

Average throughput: 21.96 Mbit/s

95th percentile per-packet one-way delay: 111.764 ms

Loss rate: 0.80%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-16 21:53:04

End at: 2018-04-16 21:53:34

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 119.673 ms

Loss rate: 0.46%

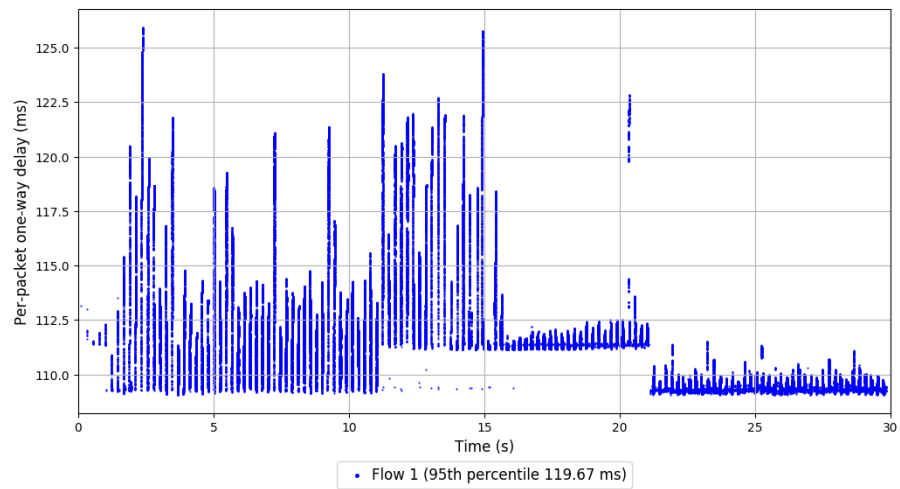
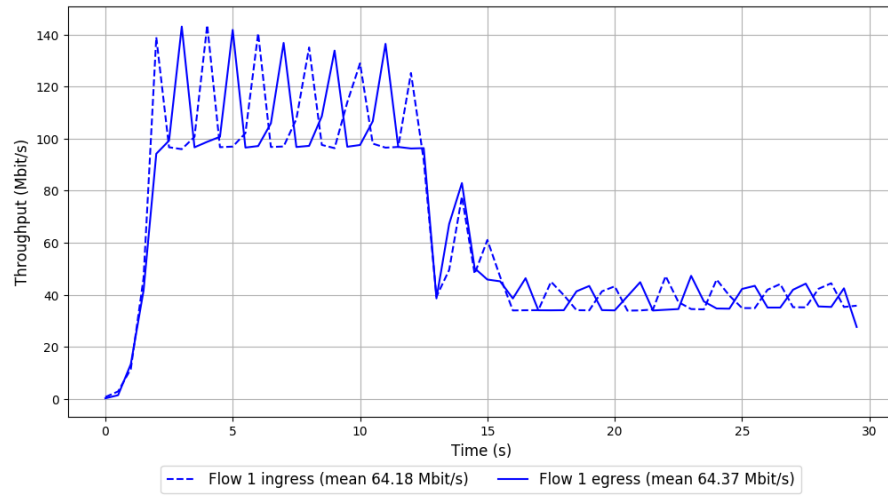
-- Flow 1:

Average throughput: 64.37 Mbit/s

95th percentile per-packet one-way delay: 119.673 ms

Loss rate: 0.46%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-16 22:07:09

End at: 2018-04-16 22:07:39

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 112.440 ms

Loss rate: 0.81%

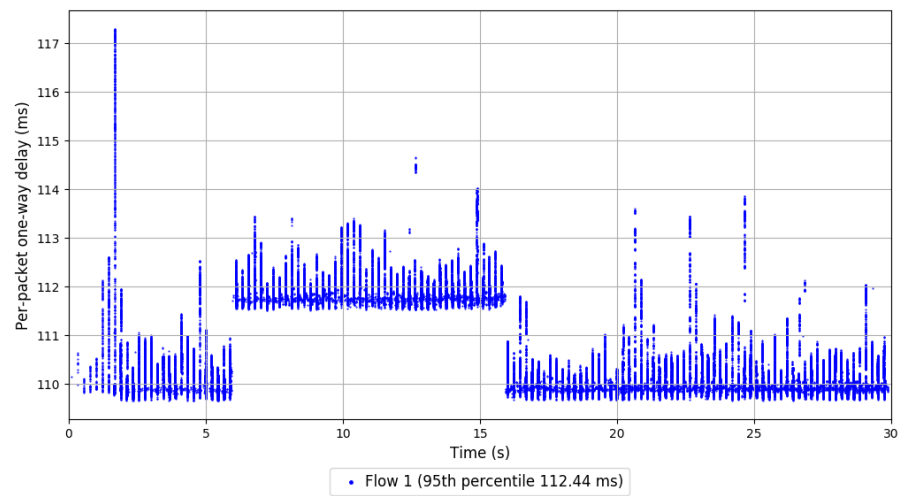
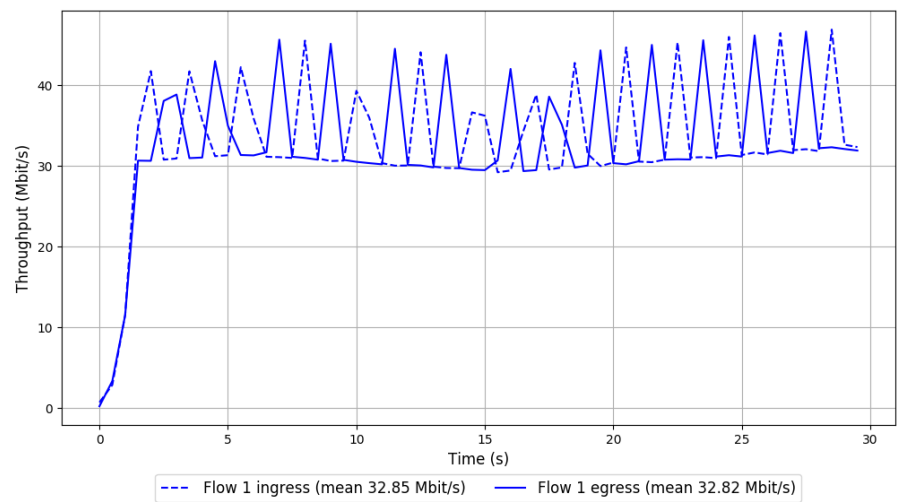
-- Flow 1:

Average throughput: 32.82 Mbit/s

95th percentile per-packet one-way delay: 112.440 ms

Loss rate: 0.81%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-16 22:20:59

End at: 2018-04-16 22:21:29

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 117.073 ms

Loss rate: 0.69%

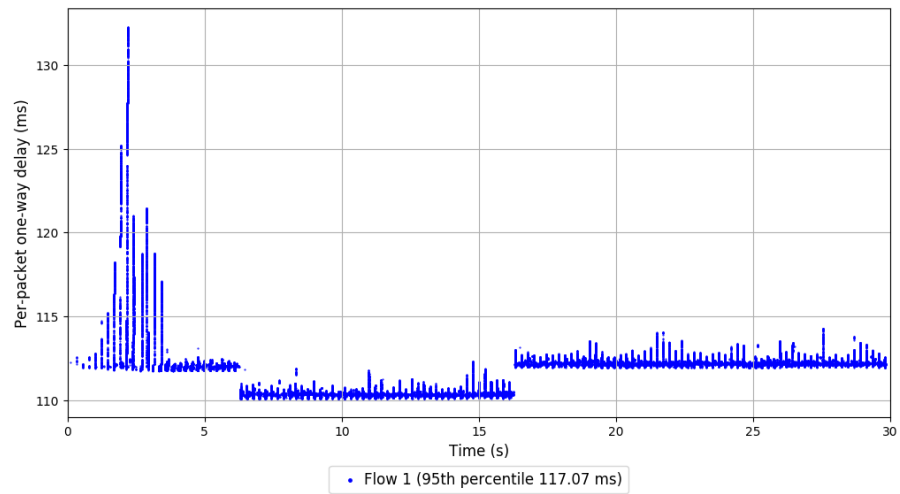
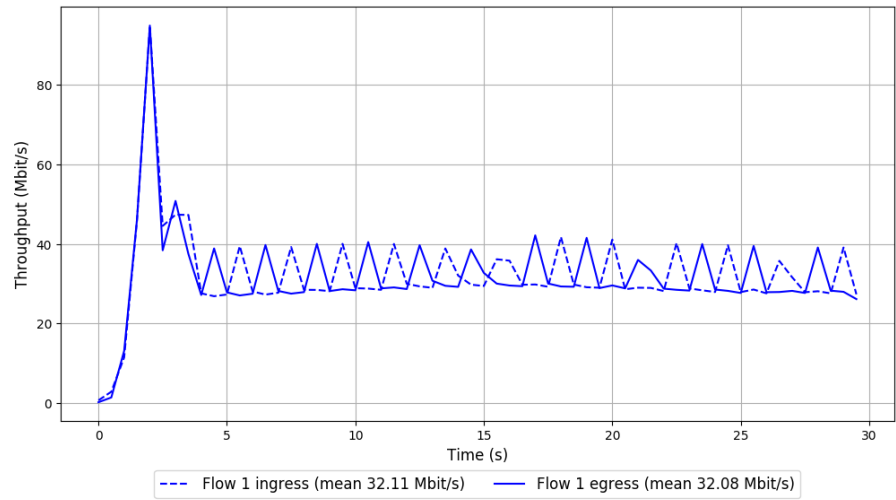
-- Flow 1:

Average throughput: 32.08 Mbit/s

95th percentile per-packet one-way delay: 117.073 ms

Loss rate: 0.69%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-16 22:34:51

End at: 2018-04-16 22:35:21

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 113.055 ms

Loss rate: 0.76%

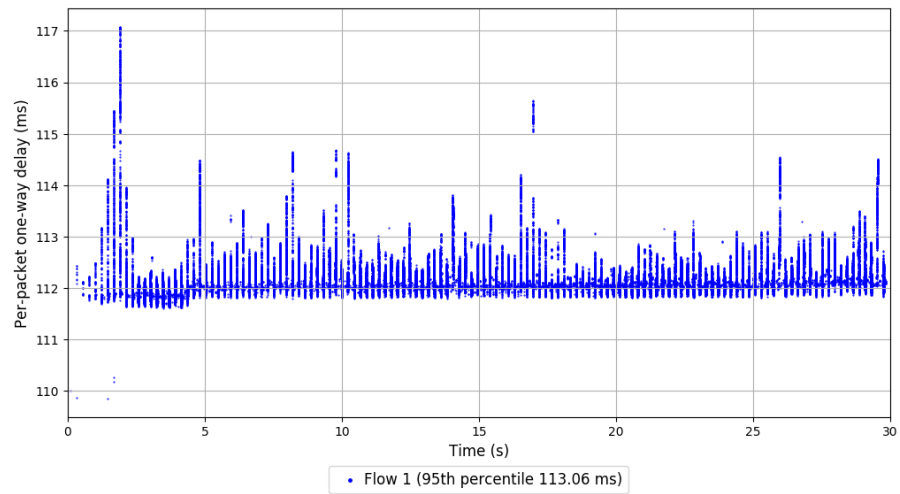
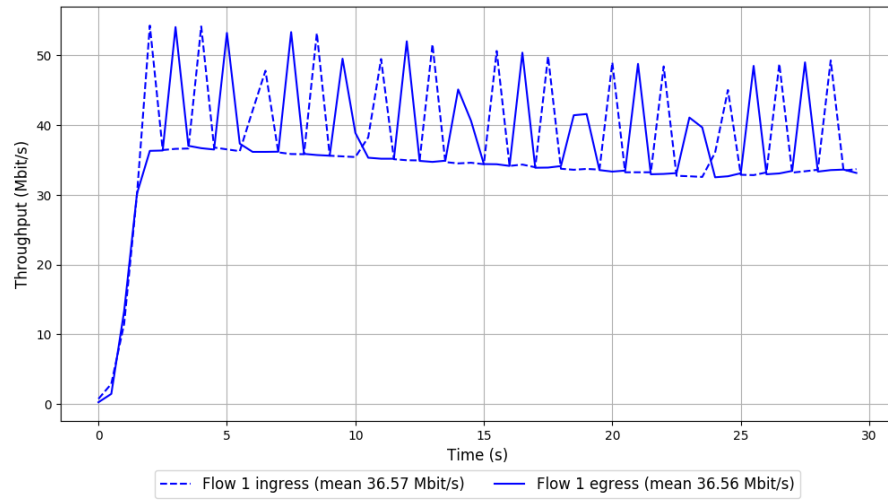
-- Flow 1:

Average throughput: 36.56 Mbit/s

95th percentile per-packet one-way delay: 113.055 ms

Loss rate: 0.76%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-16 22:48:43

End at: 2018-04-16 22:49:13

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 113.812 ms

Loss rate: 0.81%

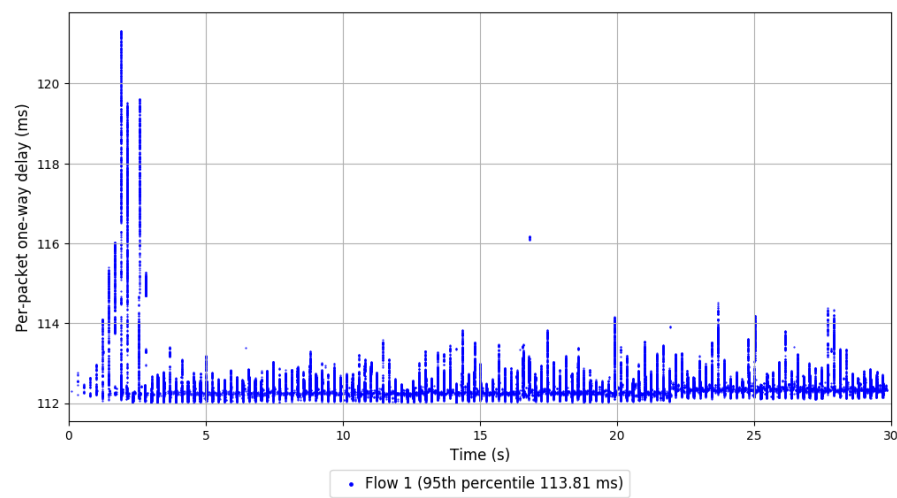
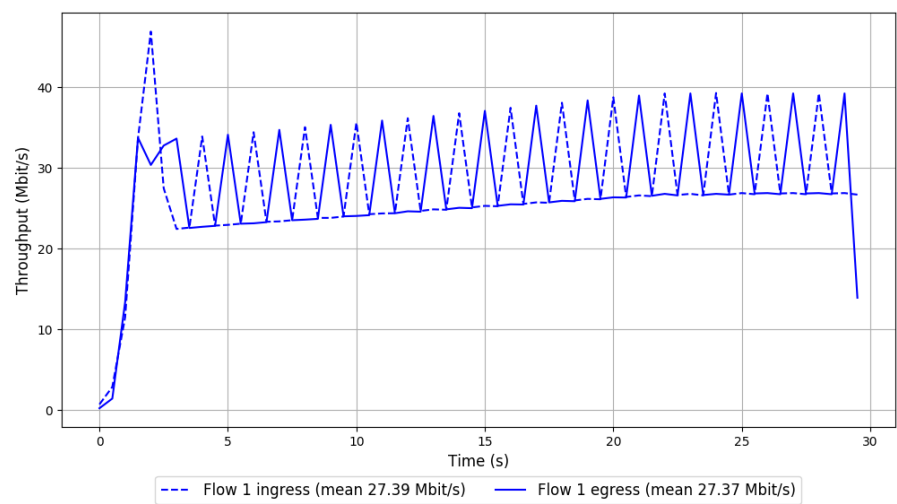
-- Flow 1:

Average throughput: 27.37 Mbit/s

95th percentile per-packet one-way delay: 113.812 ms

Loss rate: 0.81%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-16 23:02:48

End at: 2018-04-16 23:03:18

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 119.925 ms

Loss rate: 0.44%

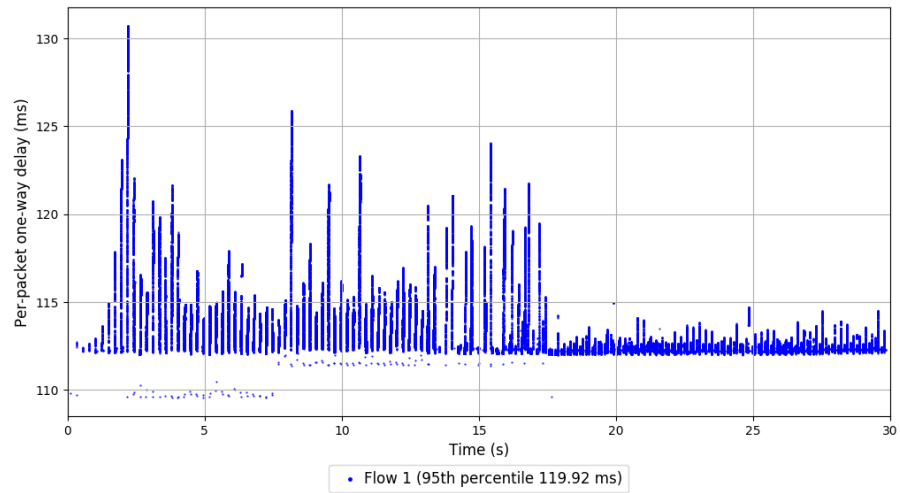
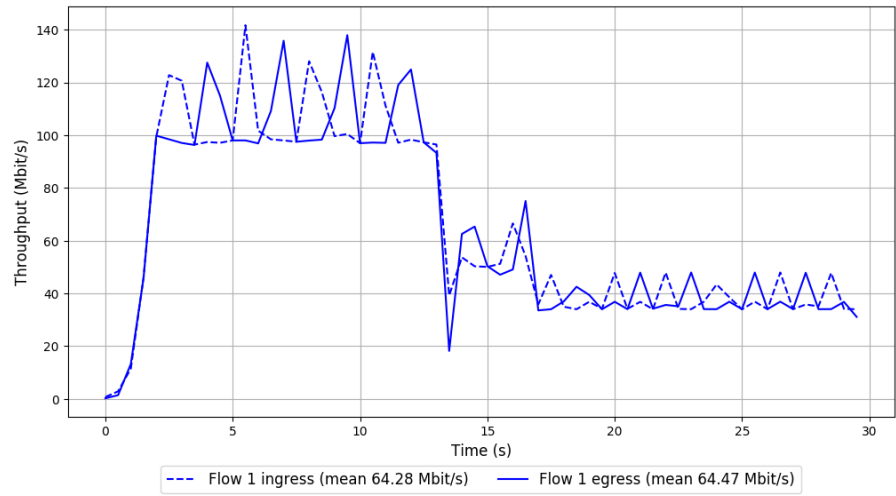
-- Flow 1:

Average throughput: 64.47 Mbit/s

95th percentile per-packet one-way delay: 119.925 ms

Loss rate: 0.44%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-16 20:45:36

End at: 2018-04-16 20:46:06

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.72 Mbit/s

95th percentile per-packet one-way delay: 118.738 ms

Loss rate: 0.00%

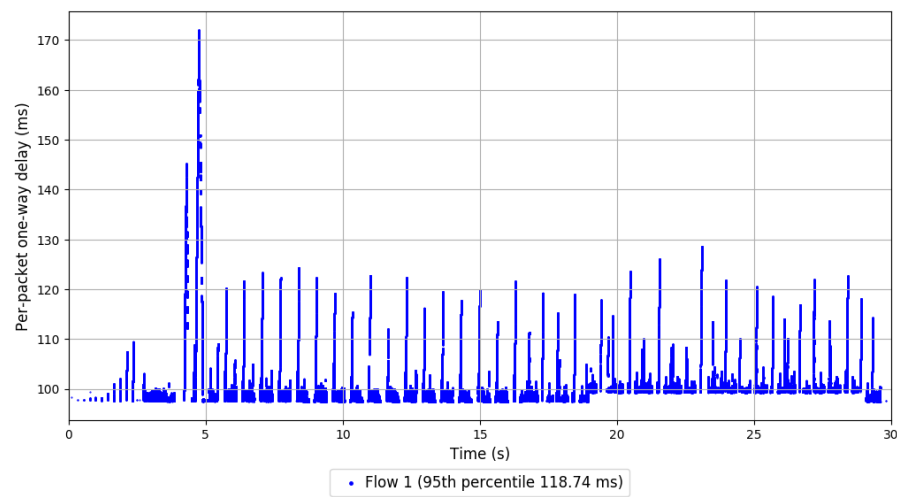
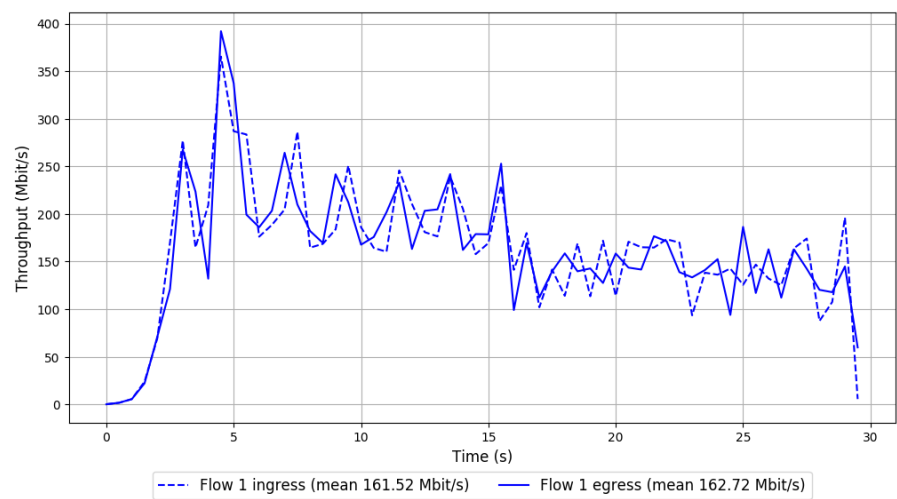
-- Flow 1:

Average throughput: 162.72 Mbit/s

95th percentile per-packet one-way delay: 118.738 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-16 20:59:14

End at: 2018-04-16 20:59:44

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.53 Mbit/s

95th percentile per-packet one-way delay: 134.902 ms

Loss rate: 1.42%

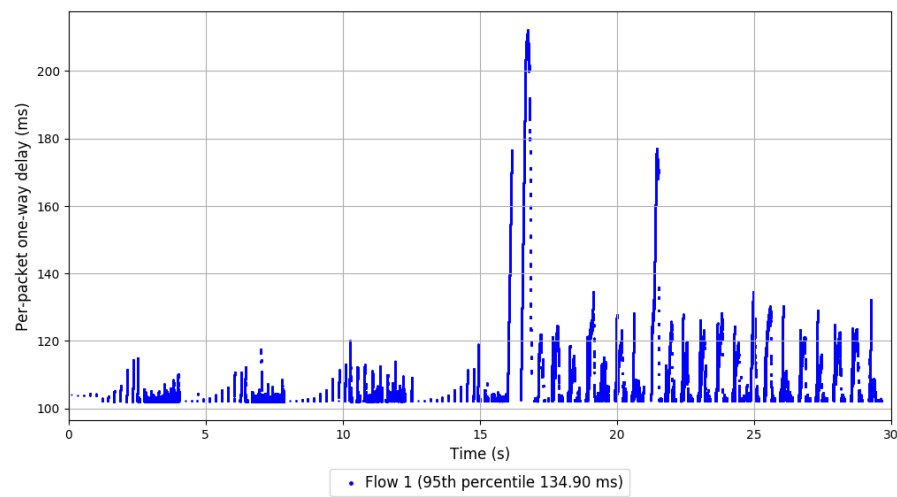
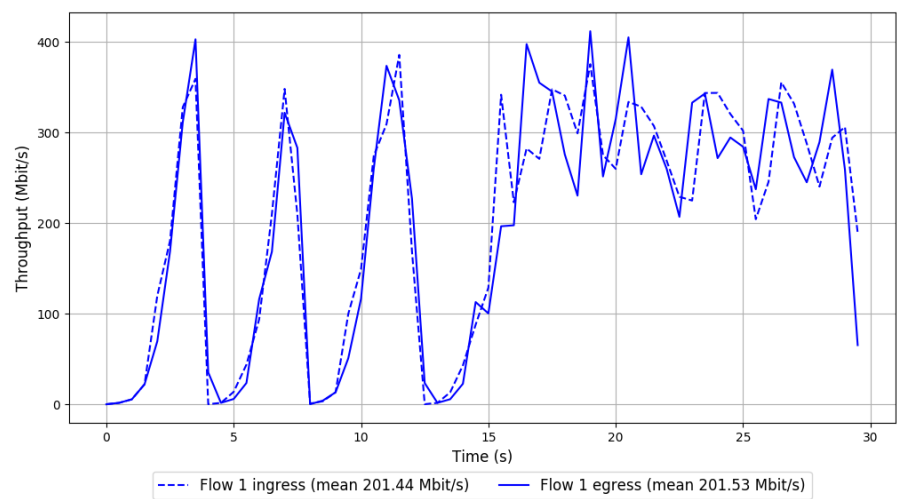
-- Flow 1:

Average throughput: 201.53 Mbit/s

95th percentile per-packet one-way delay: 134.902 ms

Loss rate: 1.42%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-16 21:13:25

End at: 2018-04-16 21:13:55

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 129.129 ms

Loss rate: 0.39%

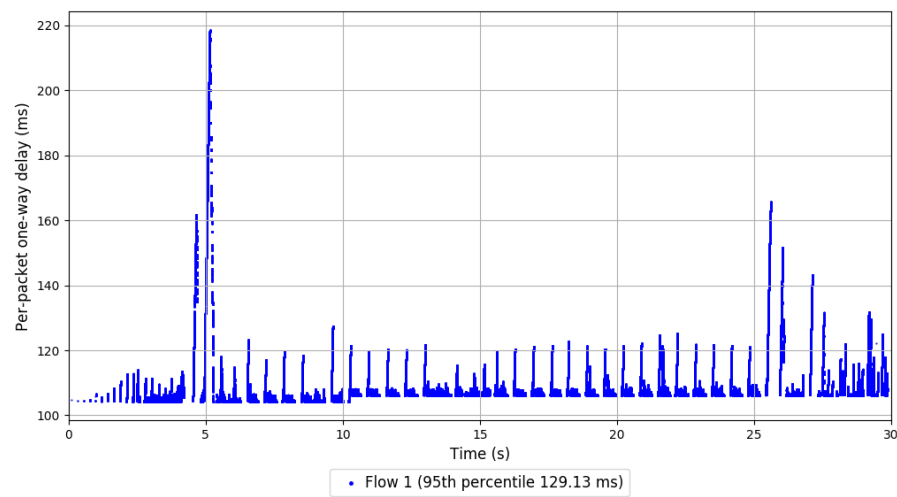
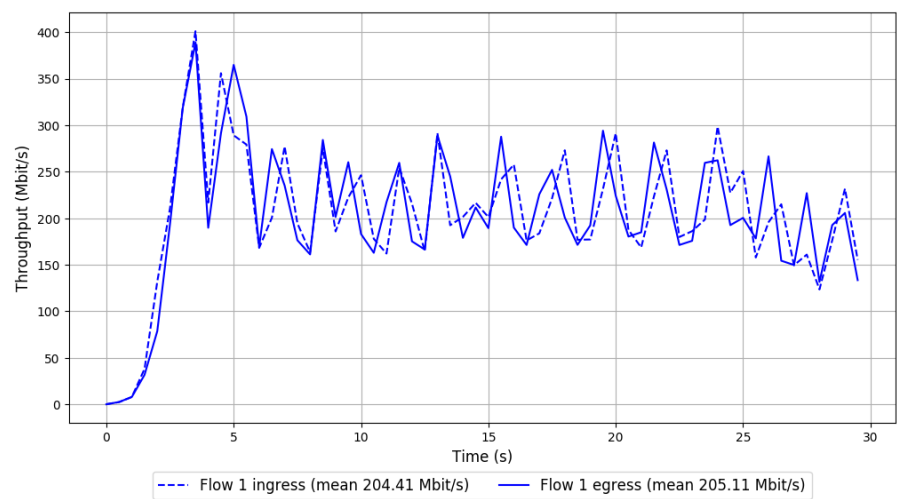
-- Flow 1:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 129.129 ms

Loss rate: 0.39%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-16 21:27:29

End at: 2018-04-16 21:27:59

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.51 Mbit/s

95th percentile per-packet one-way delay: 137.775 ms

Loss rate: 0.89%

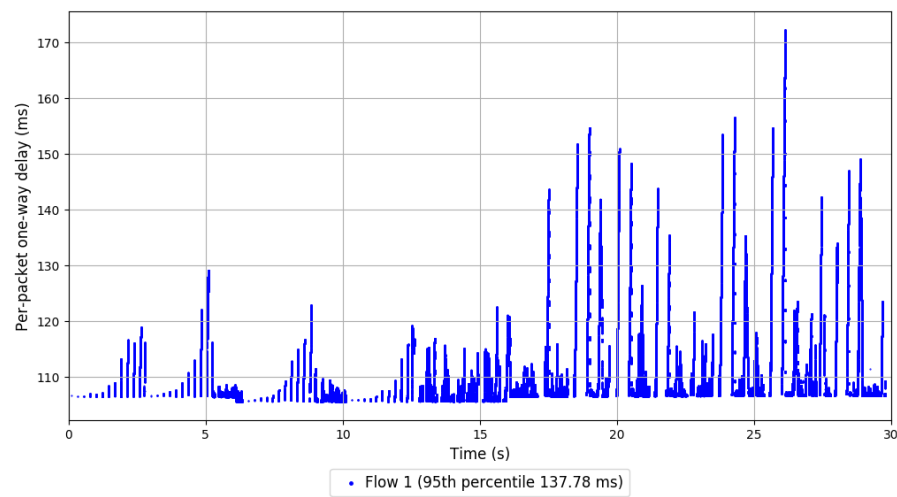
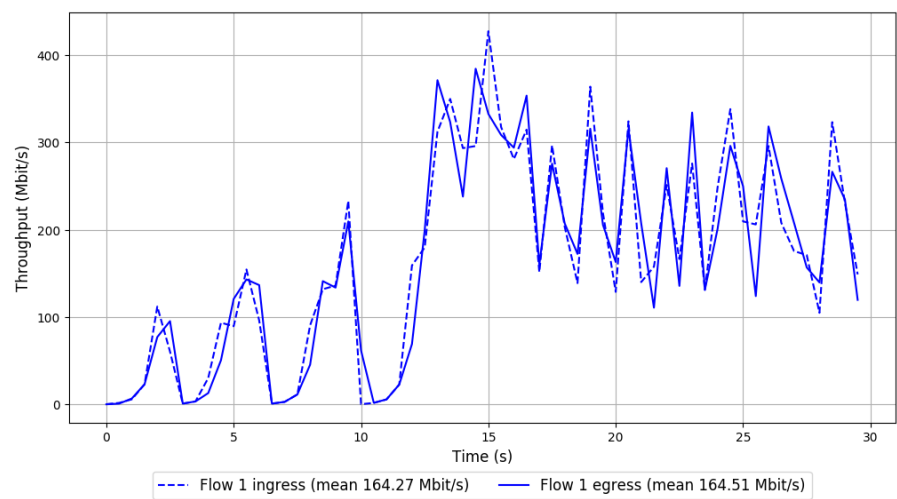
-- Flow 1:

Average throughput: 164.51 Mbit/s

95th percentile per-packet one-way delay: 137.775 ms

Loss rate: 0.89%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-16 21:41:30

End at: 2018-04-16 21:42:00

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.99 Mbit/s

95th percentile per-packet one-way delay: 124.228 ms

Loss rate: 0.42%

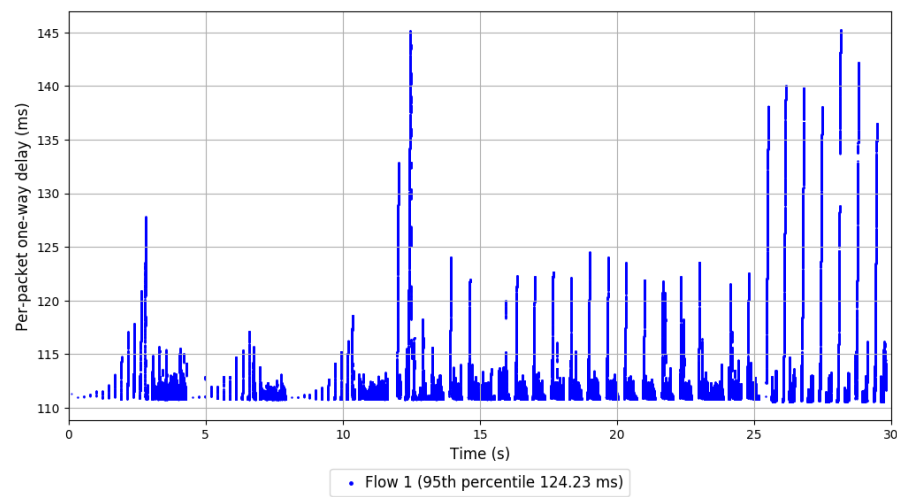
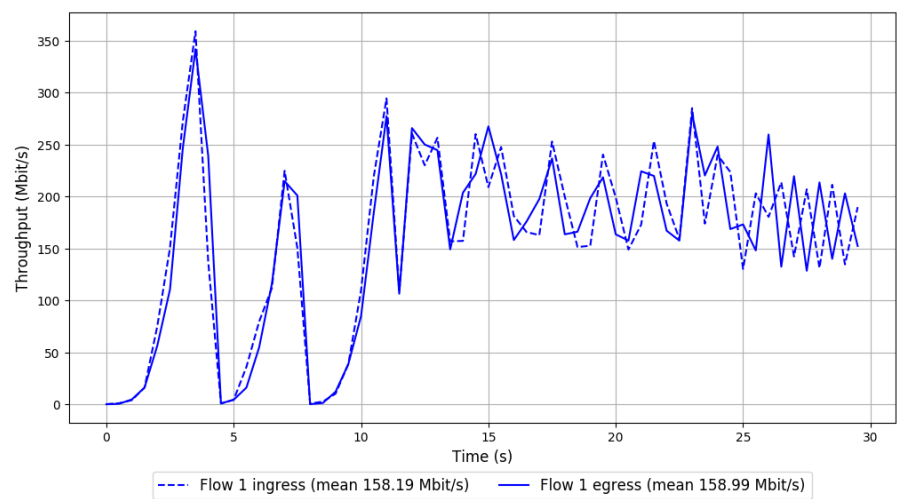
-- Flow 1:

Average throughput: 158.99 Mbit/s

95th percentile per-packet one-way delay: 124.228 ms

Loss rate: 0.42%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-16 21:55:39

End at: 2018-04-16 21:56:09

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 107.06 Mbit/s

95th percentile per-packet one-way delay: 123.906 ms

Loss rate: 1.78%

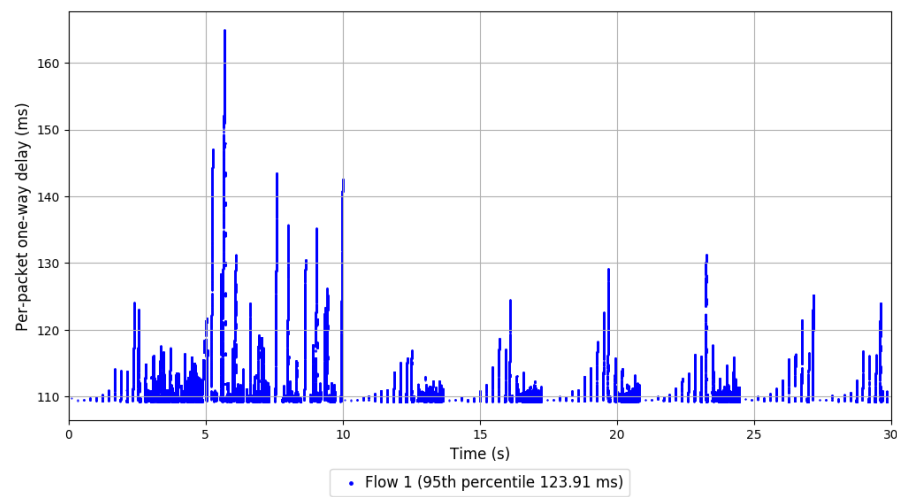
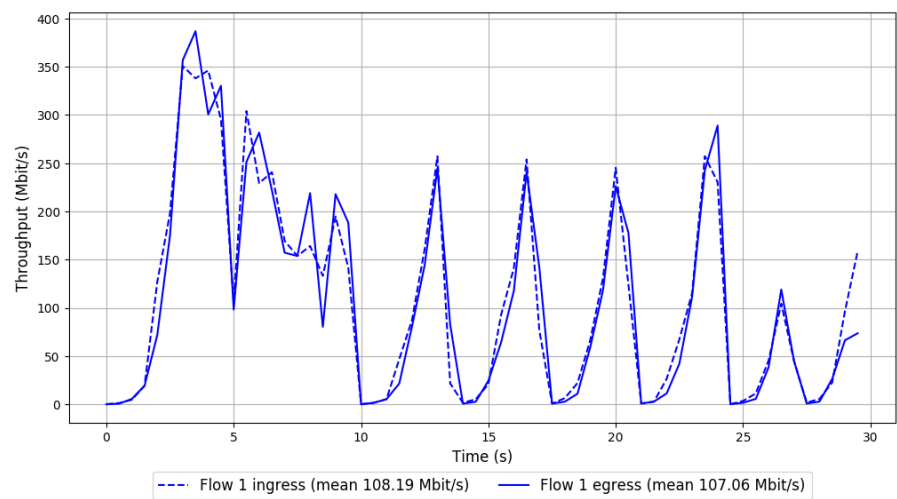
-- Flow 1:

Average throughput: 107.06 Mbit/s

95th percentile per-packet one-way delay: 123.906 ms

Loss rate: 1.78%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-16 22:09:40

End at: 2018-04-16 22:10:10

Below is generated by plot.py at 2018-04-17 01:55:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.28 Mbit/s

95th percentile per-packet one-way delay: 212.698 ms

Loss rate: 1.62%

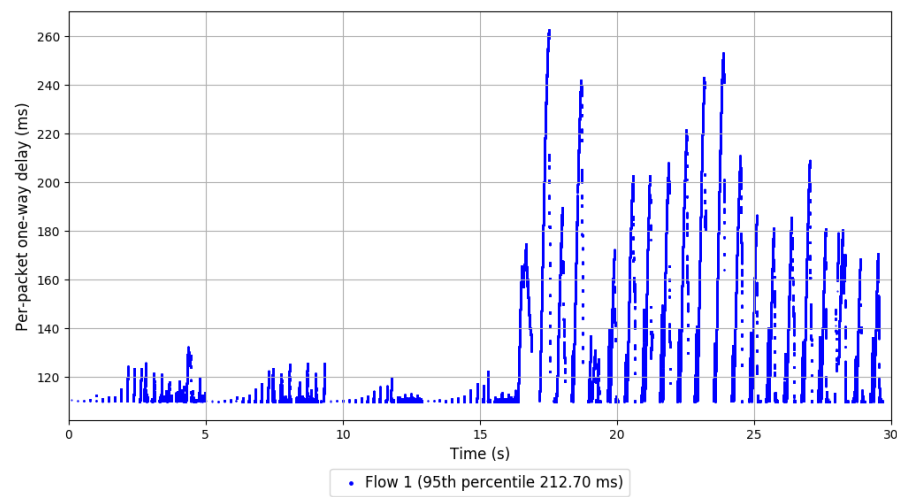
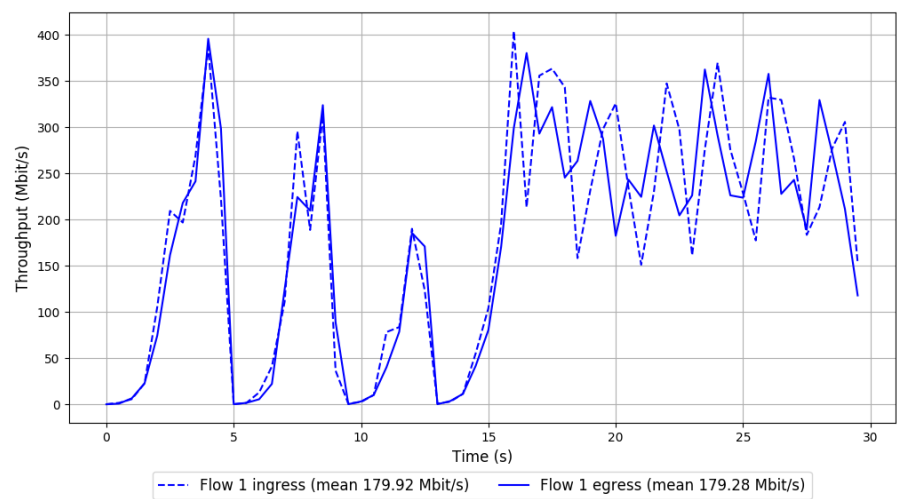
-- Flow 1:

Average throughput: 179.28 Mbit/s

95th percentile per-packet one-way delay: 212.698 ms

Loss rate: 1.62%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-16 22:23:28

End at: 2018-04-16 22:23:58

Below is generated by plot.py at 2018-04-17 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.64 Mbit/s

95th percentile per-packet one-way delay: 137.001 ms

Loss rate: 0.04%

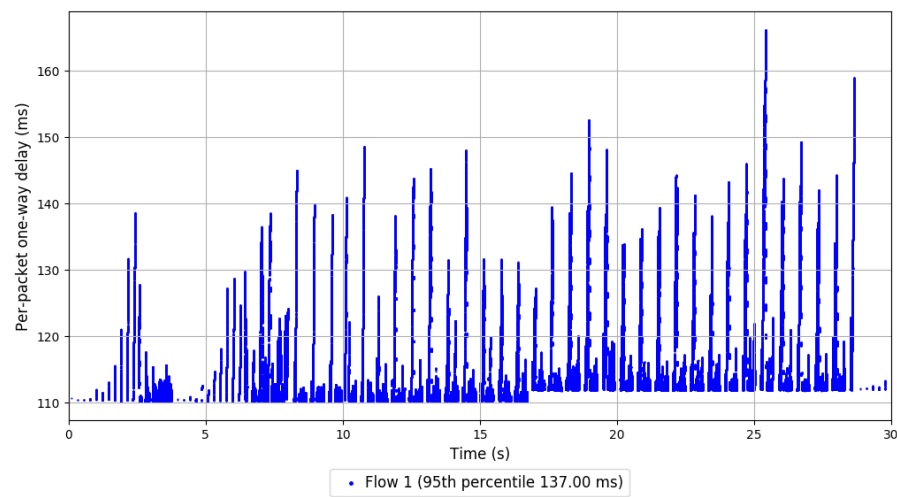
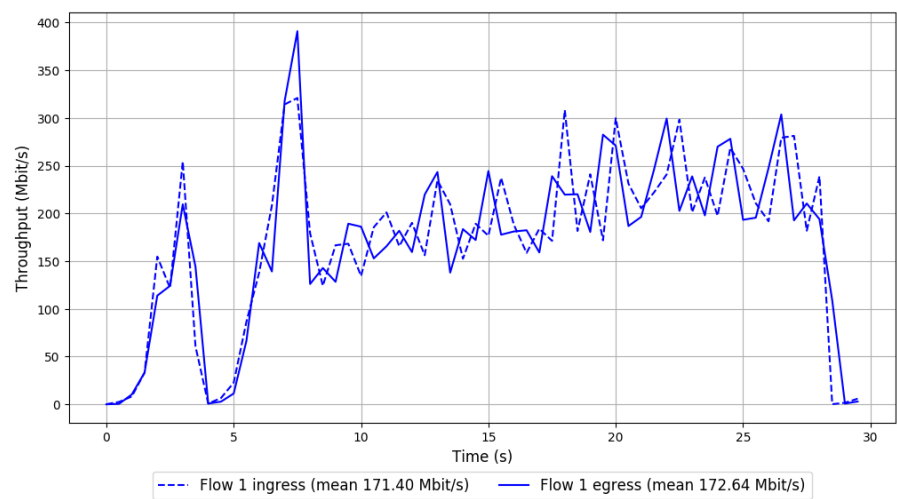
-- Flow 1:

Average throughput: 172.64 Mbit/s

95th percentile per-packet one-way delay: 137.001 ms

Loss rate: 0.04%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-16 22:37:21

End at: 2018-04-16 22:37:51

Below is generated by plot.py at 2018-04-17 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 98.88 Mbit/s

95th percentile per-packet one-way delay: 124.861 ms

Loss rate: 0.07%

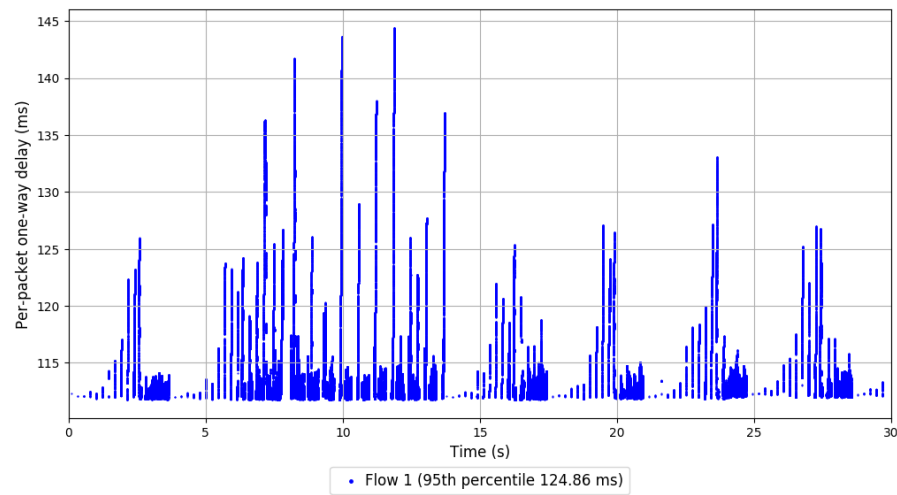
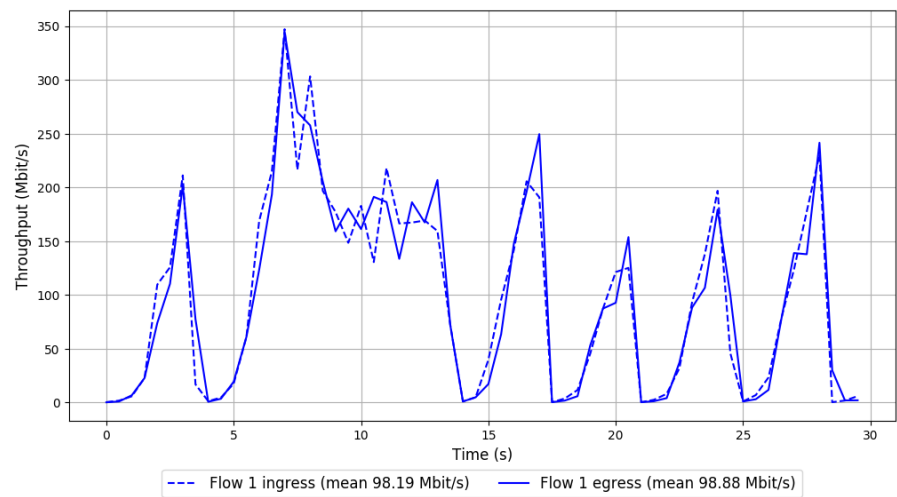
-- Flow 1:

Average throughput: 98.88 Mbit/s

95th percentile per-packet one-way delay: 124.861 ms

Loss rate: 0.07%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-16 22:51:13

End at: 2018-04-16 22:51:43

Below is generated by plot.py at 2018-04-17 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.96 Mbit/s

95th percentile per-packet one-way delay: 192.382 ms

Loss rate: 1.60%

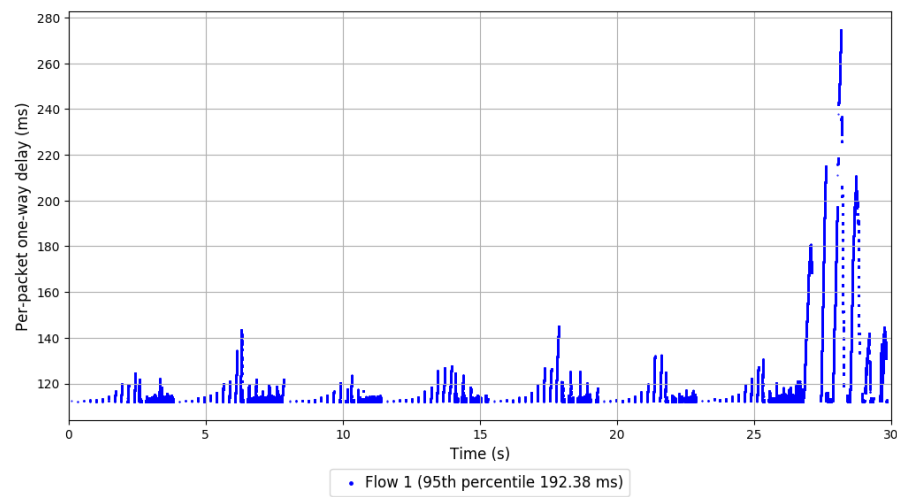
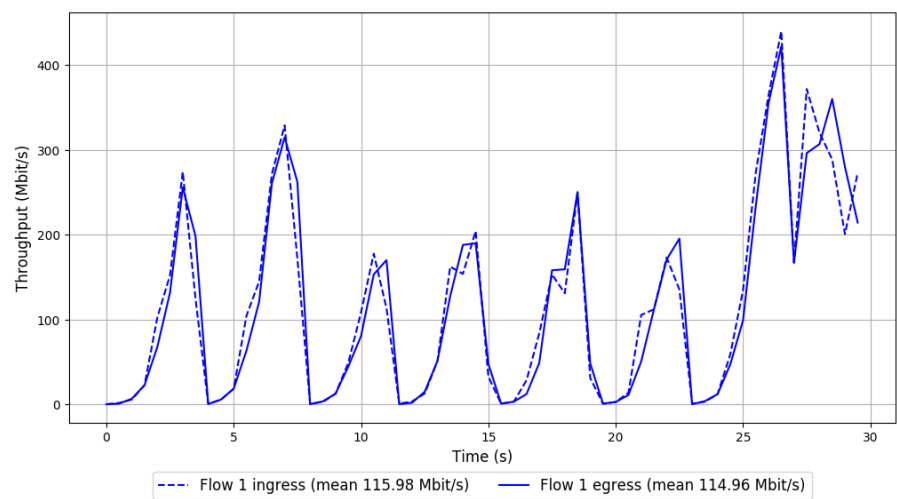
-- Flow 1:

Average throughput: 114.96 Mbit/s

95th percentile per-packet one-way delay: 192.382 ms

Loss rate: 1.60%

Run 10: Report of Verus — Data Link

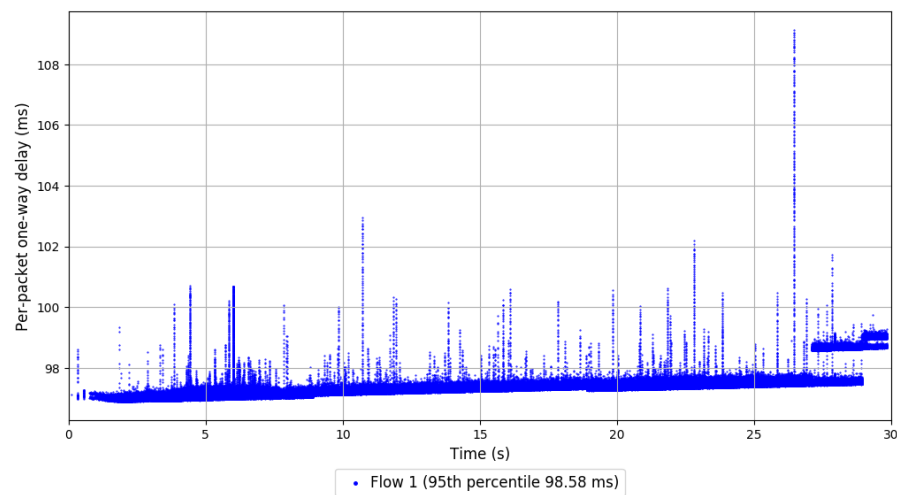
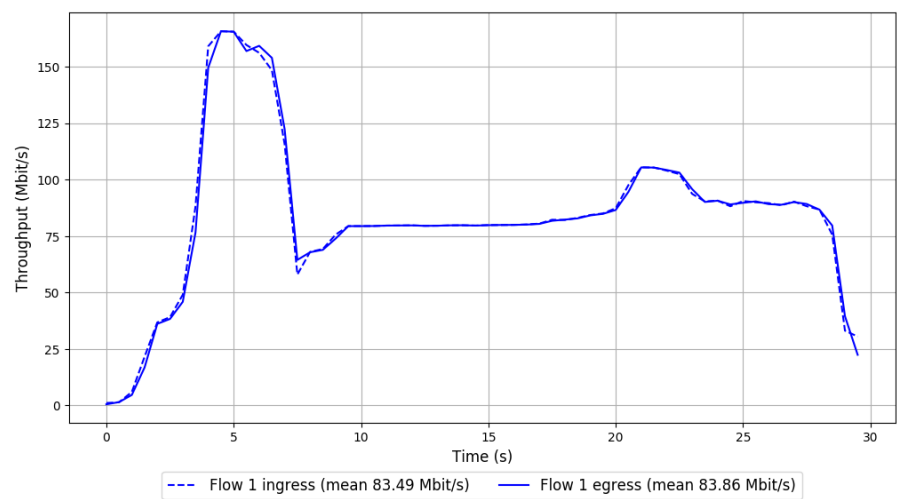


```
Run 1: Statistics of Copa

Start at: 2018-04-16 20:52:58
End at: 2018-04-16 20:53:28

# Below is generated by plot.py at 2018-04-17 01:57:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 83.86 Mbit/s
95th percentile per-packet one-way delay: 98.576 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 83.86 Mbit/s
95th percentile per-packet one-way delay: 98.576 ms
Loss rate: 0.29%
```

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-16 21:07:07

End at: 2018-04-16 21:07:37

Below is generated by plot.py at 2018-04-17 01:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 106.758 ms

Loss rate: 0.30%

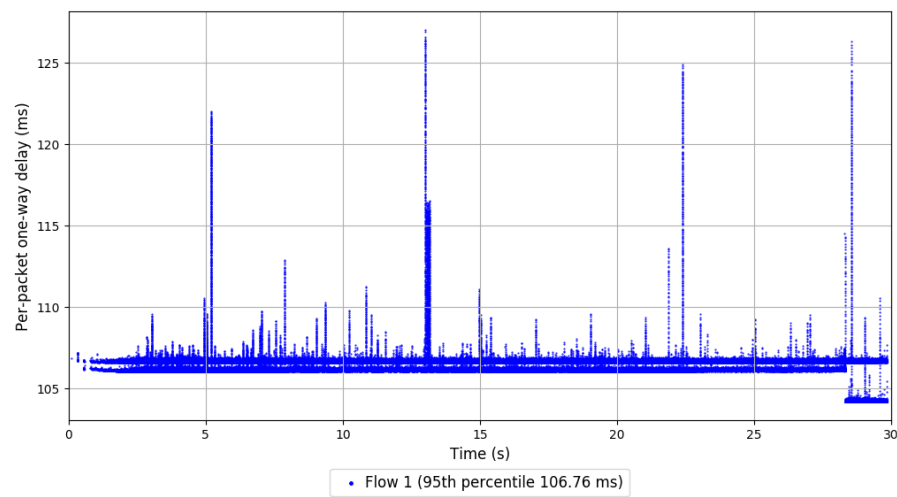
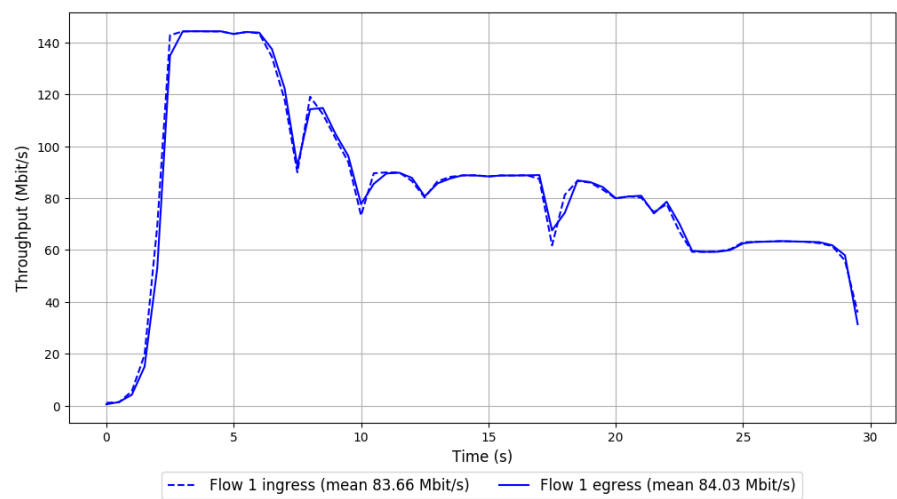
-- Flow 1:

Average throughput: 84.03 Mbit/s

95th percentile per-packet one-way delay: 106.758 ms

Loss rate: 0.30%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-16 21:21:11

End at: 2018-04-16 21:21:41

Below is generated by plot.py at 2018-04-17 01:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 105.920 ms

Loss rate: 0.25%

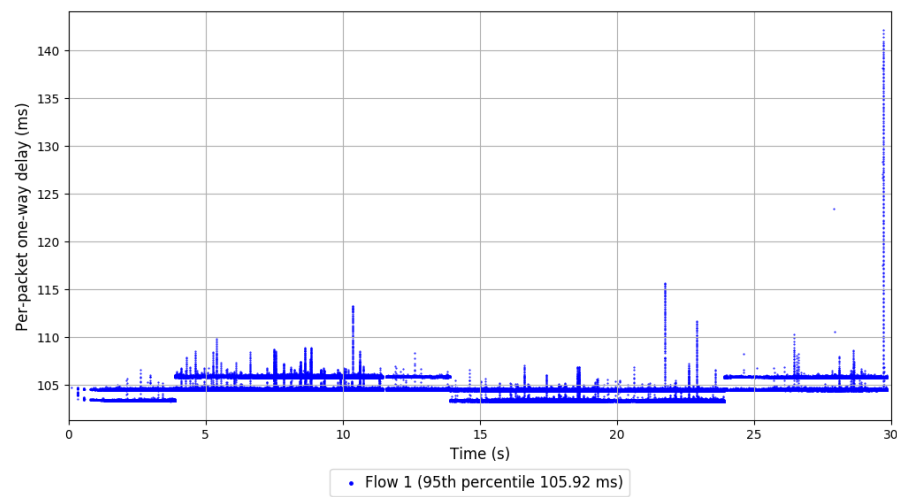
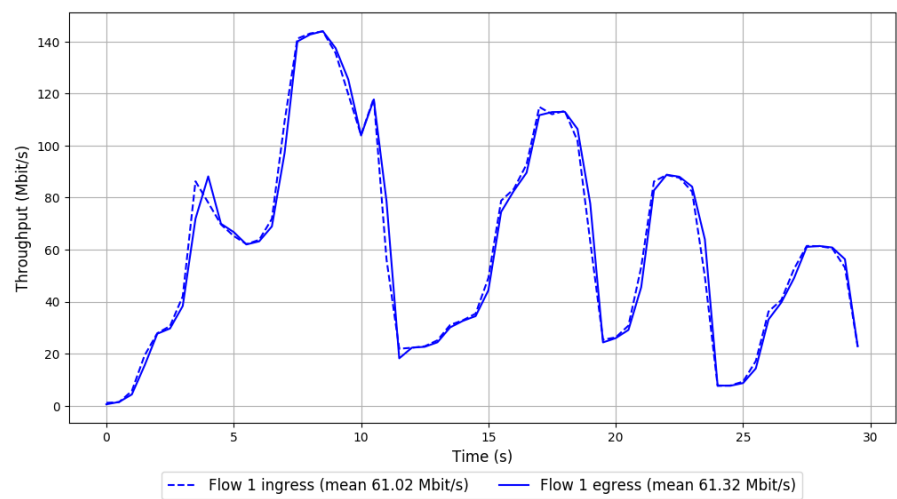
-- Flow 1:

Average throughput: 61.32 Mbit/s

95th percentile per-packet one-way delay: 105.920 ms

Loss rate: 0.25%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-16 21:35:10

End at: 2018-04-16 21:35:40

Below is generated by plot.py at 2018-04-17 01:58:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 109.886 ms

Loss rate: 0.54%

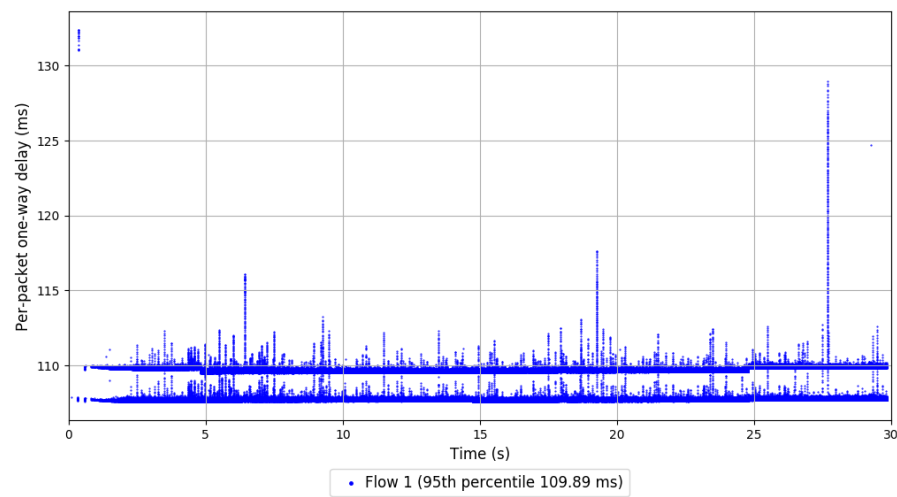
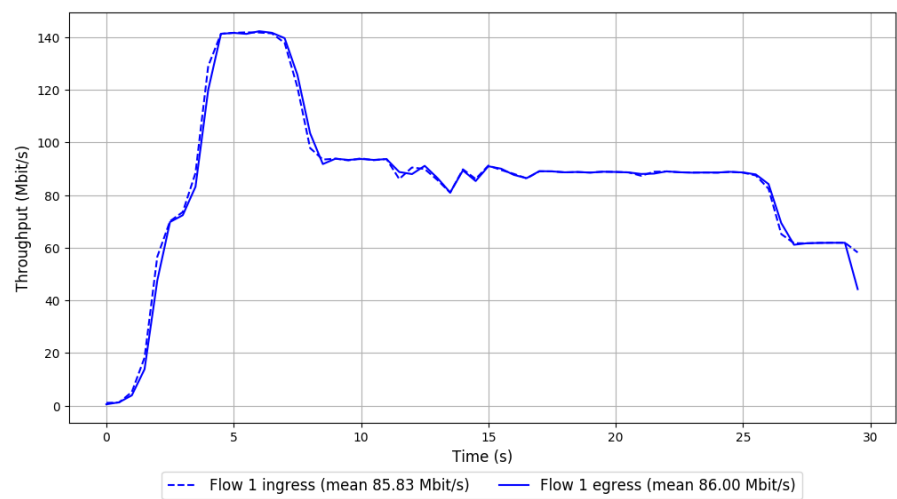
-- Flow 1:

Average throughput: 86.00 Mbit/s

95th percentile per-packet one-way delay: 109.886 ms

Loss rate: 0.54%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-16 21:49:15

End at: 2018-04-16 21:49:45

Below is generated by plot.py at 2018-04-17 01:58:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 111.263 ms

Loss rate: 0.23%

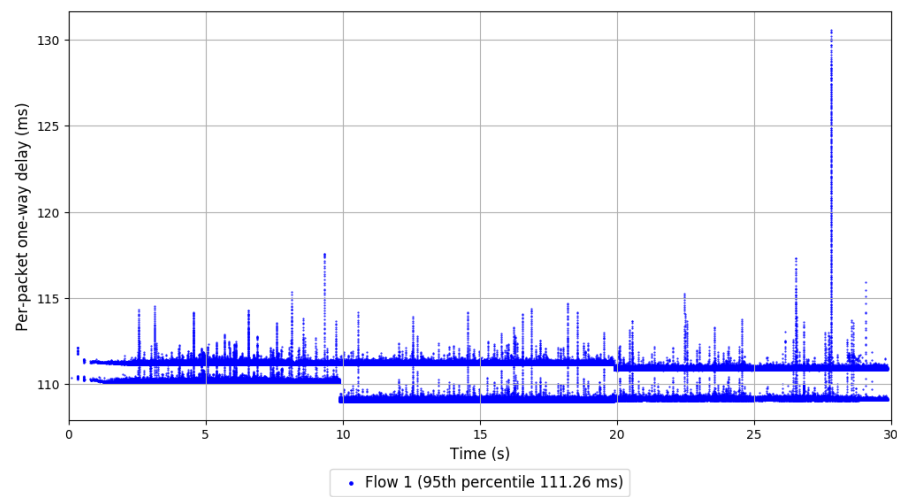
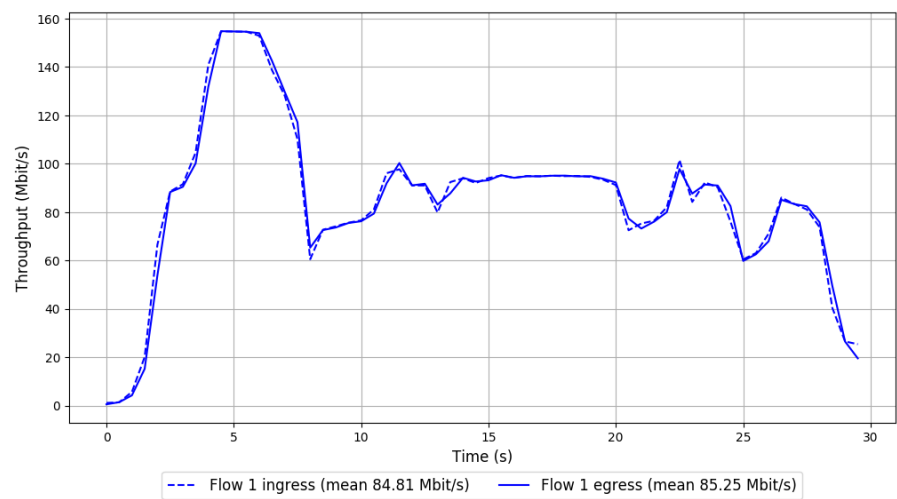
-- Flow 1:

Average throughput: 85.25 Mbit/s

95th percentile per-packet one-way delay: 111.263 ms

Loss rate: 0.23%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

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

End at: 2018-04-16 22:03:53

Below is generated by plot.py at 2018-04-17 01:58:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 109.701 ms

Loss rate: 0.76%

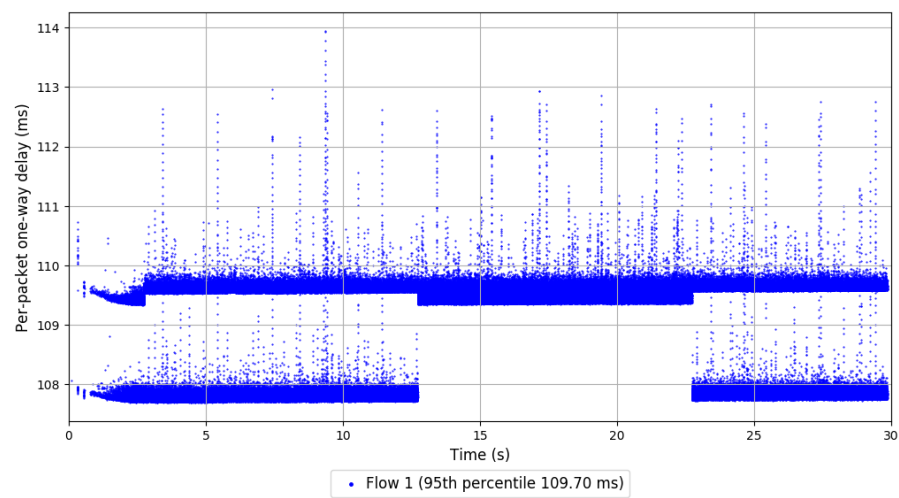
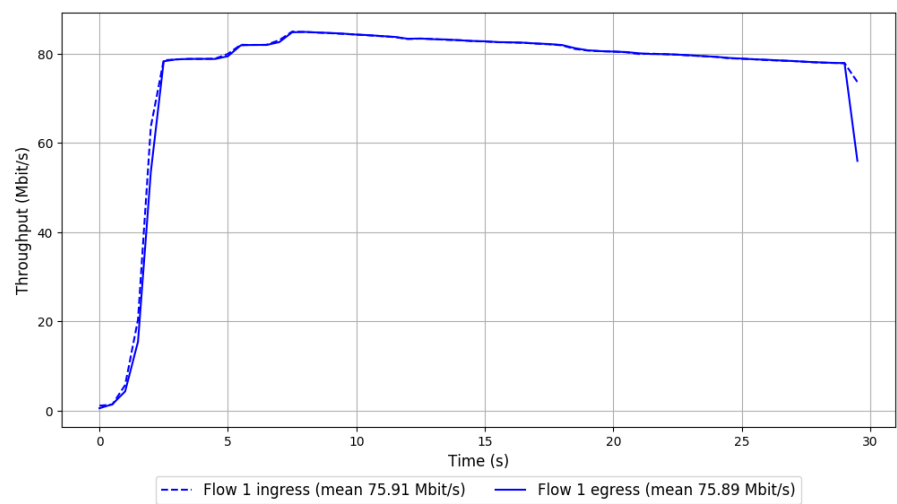
-- Flow 1:

Average throughput: 75.89 Mbit/s

95th percentile per-packet one-way delay: 109.701 ms

Loss rate: 0.76%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

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

End at: 2018-04-16 22:17:42

Below is generated by plot.py at 2018-04-17 01:59:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.24 Mbit/s

95th percentile per-packet one-way delay: 112.040 ms

Loss rate: 0.14%

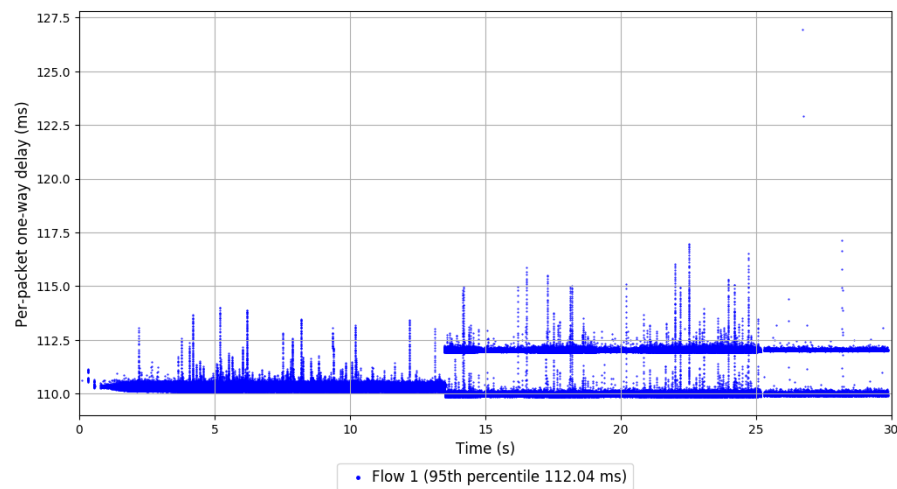
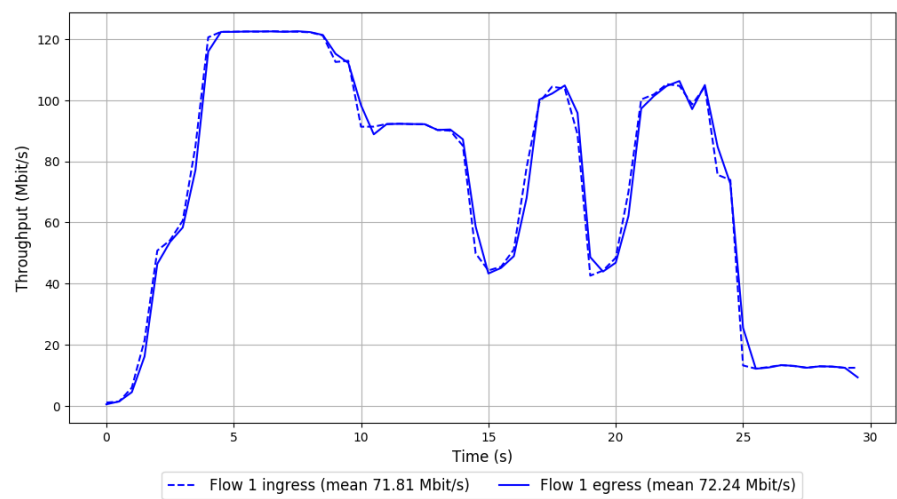
-- Flow 1:

Average throughput: 72.24 Mbit/s

95th percentile per-packet one-way delay: 112.040 ms

Loss rate: 0.14%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-16 22:31:03

End at: 2018-04-16 22:31:33

Below is generated by plot.py at 2018-04-17 01:59:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 111.940 ms

Loss rate: 0.75%

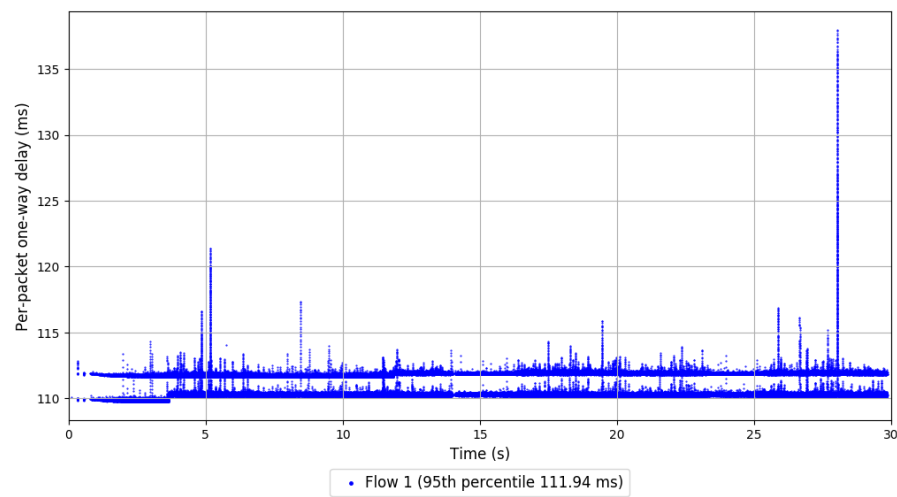
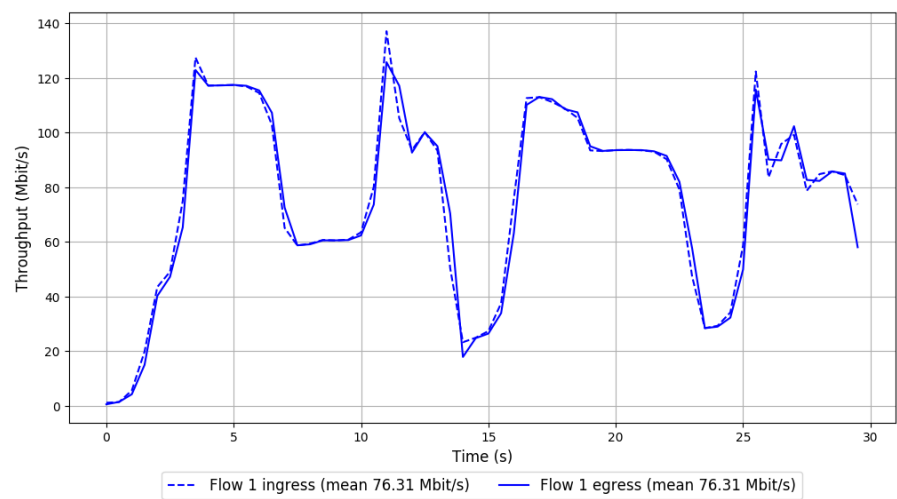
-- Flow 1:

Average throughput: 76.31 Mbit/s

95th percentile per-packet one-way delay: 111.940 ms

Loss rate: 0.75%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-16 22:44:42

End at: 2018-04-16 22:45:13

Below is generated by plot.py at 2018-04-17 02:04:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.92 Mbit/s

95th percentile per-packet one-way delay: 191.811 ms

Loss rate: 12.81%

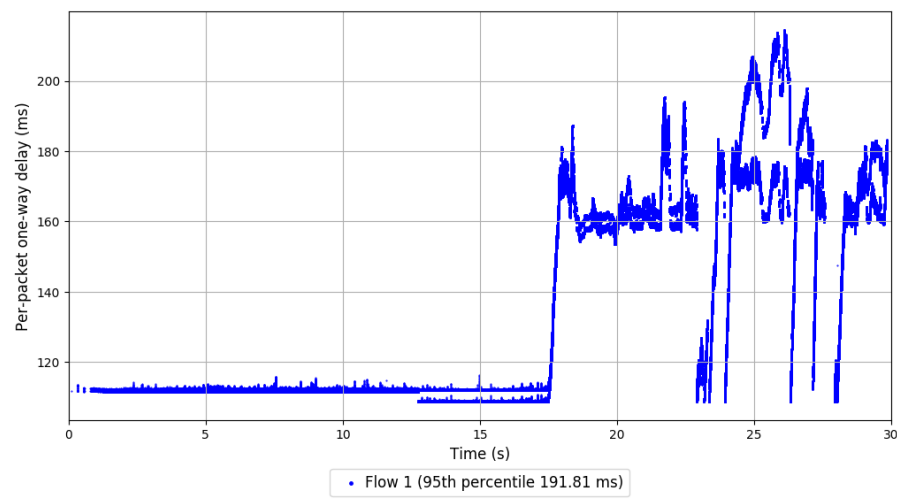
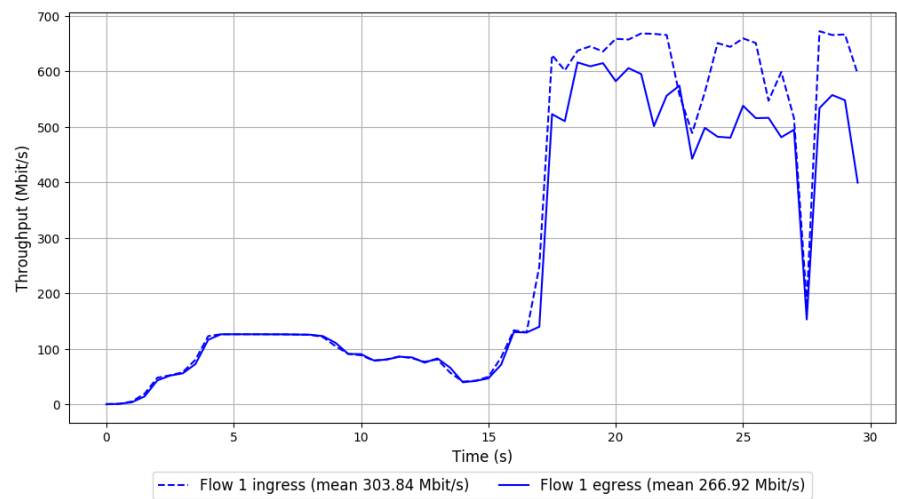
-- Flow 1:

Average throughput: 266.92 Mbit/s

95th percentile per-packet one-way delay: 191.811 ms

Loss rate: 12.81%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-16 22:58:58

End at: 2018-04-16 22:59:28

Below is generated by plot.py at 2018-04-17 02:04:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 112.266 ms

Loss rate: 0.79%

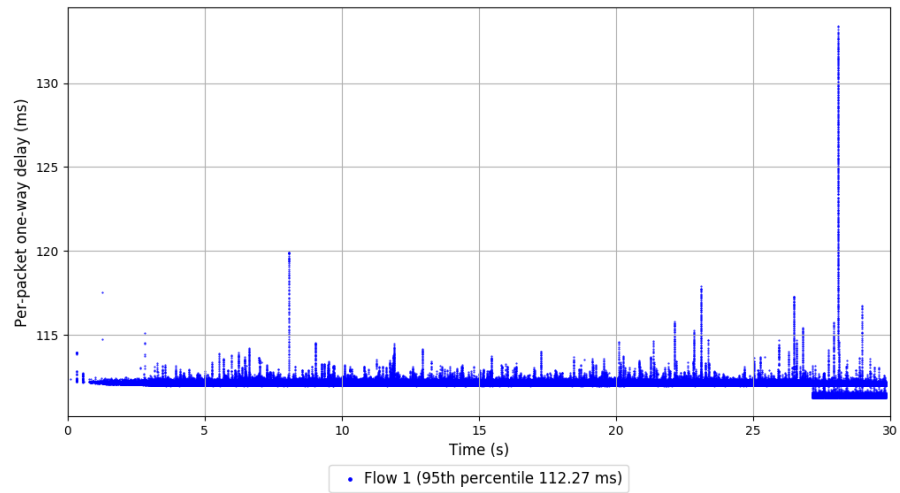
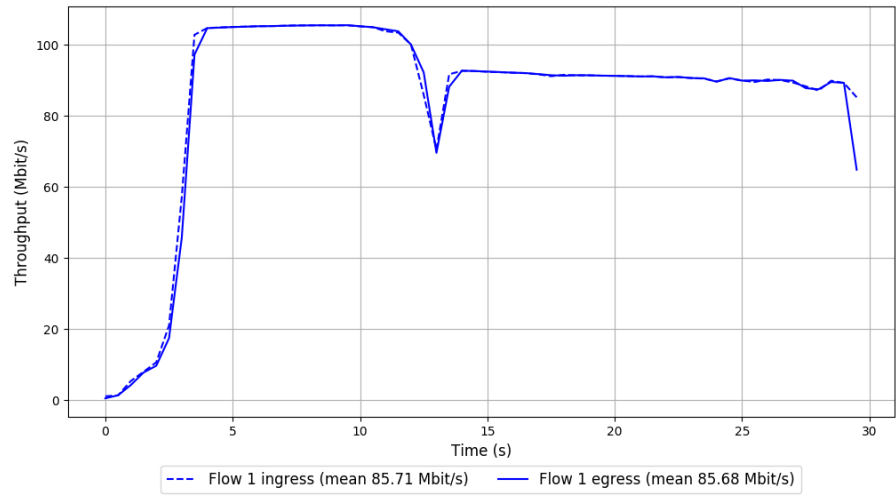
-- Flow 1:

Average throughput: 85.68 Mbit/s

95th percentile per-packet one-way delay: 112.266 ms

Loss rate: 0.79%

Run 10: Report of Copa — Data Link

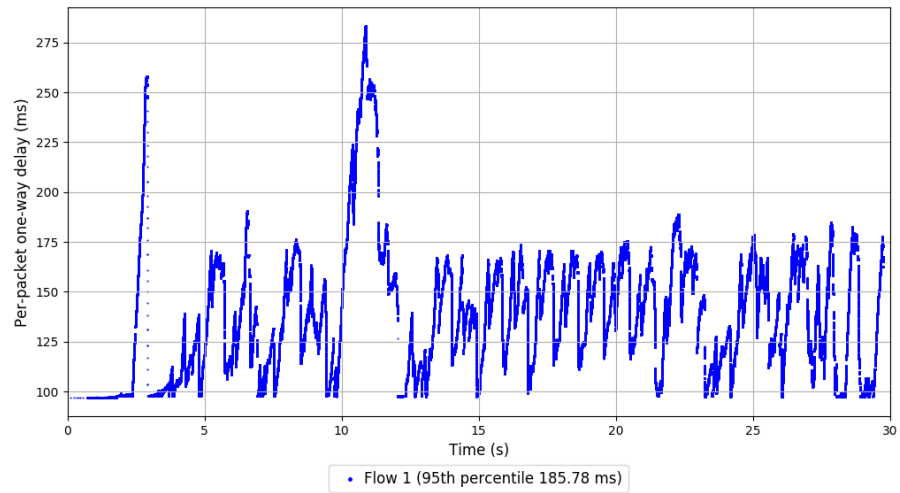
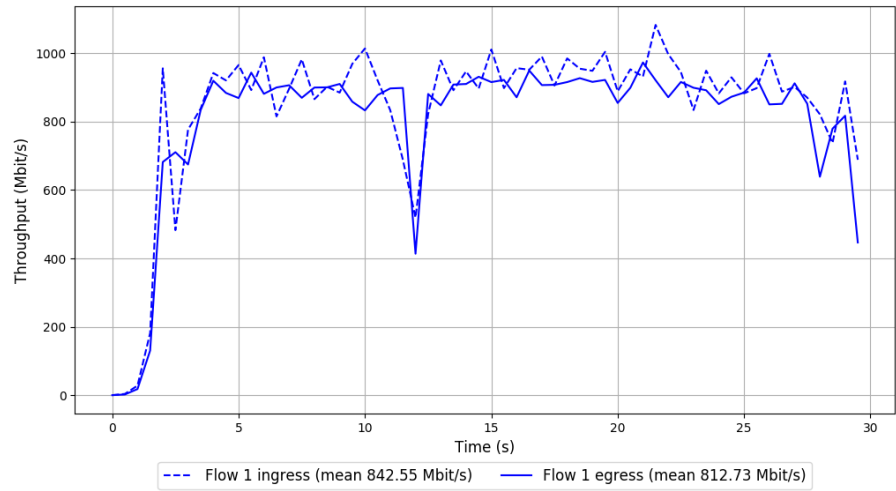


```
Run 1: Statistics of FillP

Start at: 2018-04-16 20:51:03
End at: 2018-04-16 20:51:33

# Below is generated by plot.py at 2018-04-17 02:12:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 812.73 Mbit/s
95th percentile per-packet one-way delay: 185.782 ms
Loss rate: 4.27%
-- Flow 1:
Average throughput: 812.73 Mbit/s
95th percentile per-packet one-way delay: 185.782 ms
Loss rate: 4.27%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-16 21:04:56

End at: 2018-04-16 21:05:26

Below is generated by plot.py at 2018-04-17 02:12:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.19 Mbit/s

95th percentile per-packet one-way delay: 180.646 ms

Loss rate: 3.06%

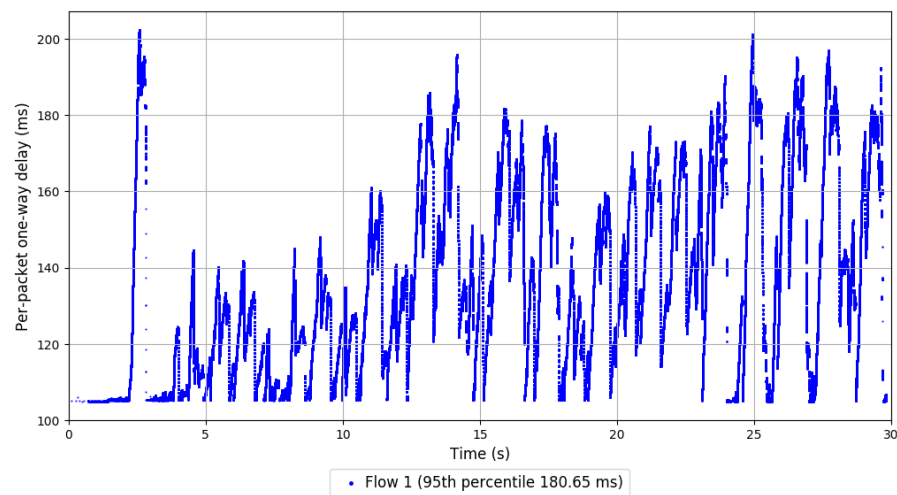
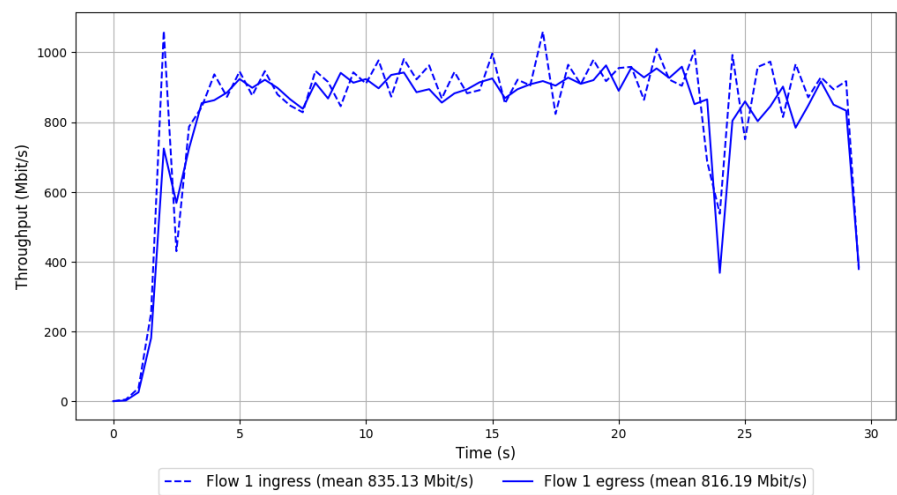
-- Flow 1:

Average throughput: 816.19 Mbit/s

95th percentile per-packet one-way delay: 180.646 ms

Loss rate: 3.06%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-16 21:19:05

End at: 2018-04-16 21:19:35

Below is generated by plot.py at 2018-04-17 02:12:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 843.87 Mbit/s

95th percentile per-packet one-way delay: 174.580 ms

Loss rate: 2.74%

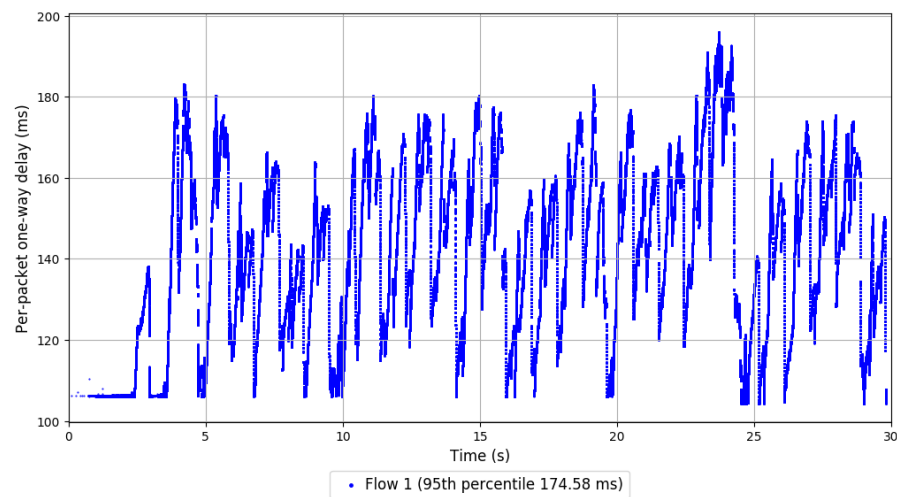
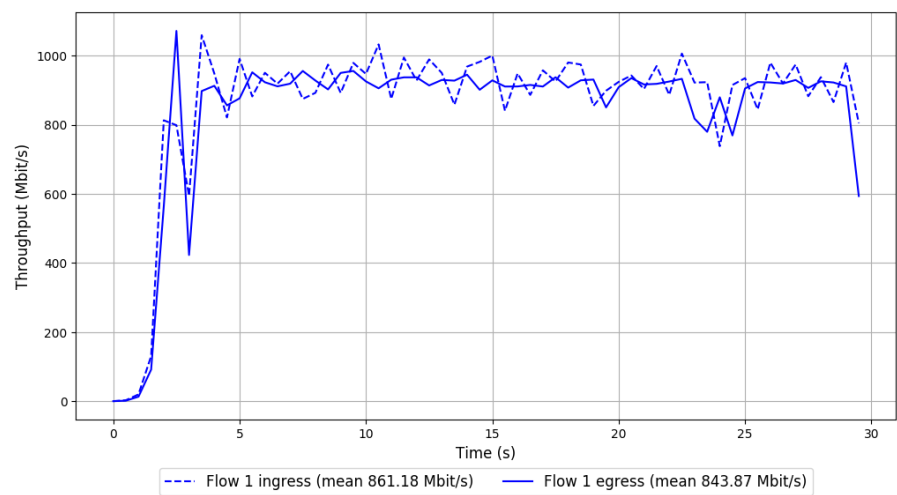
-- Flow 1:

Average throughput: 843.87 Mbit/s

95th percentile per-packet one-way delay: 174.580 ms

Loss rate: 2.74%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-16 21:33:02

End at: 2018-04-16 21:33:32

Below is generated by plot.py at 2018-04-17 02:12:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 835.67 Mbit/s

95th percentile per-packet one-way delay: 179.336 ms

Loss rate: 2.83%

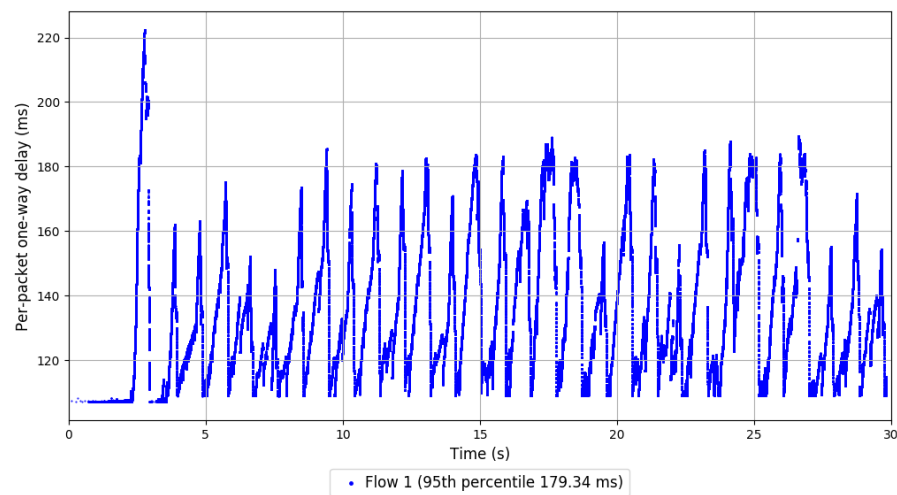
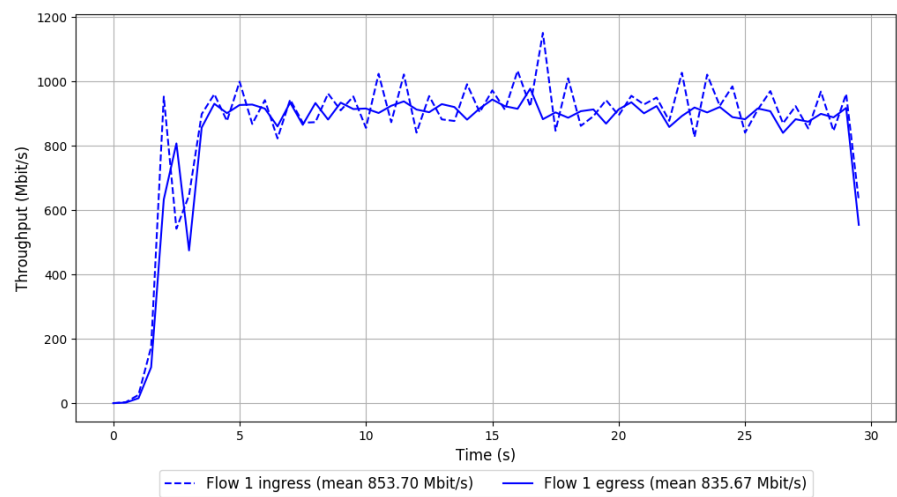
-- Flow 1:

Average throughput: 835.67 Mbit/s

95th percentile per-packet one-way delay: 179.336 ms

Loss rate: 2.83%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-16 21:47:03

End at: 2018-04-16 21:47:33

Below is generated by plot.py at 2018-04-17 02:12:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.48 Mbit/s

95th percentile per-packet one-way delay: 204.748 ms

Loss rate: 5.73%

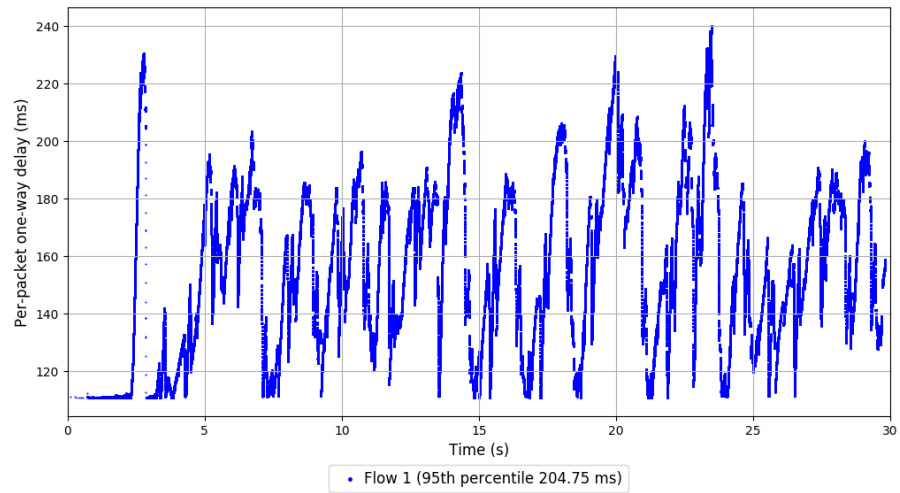
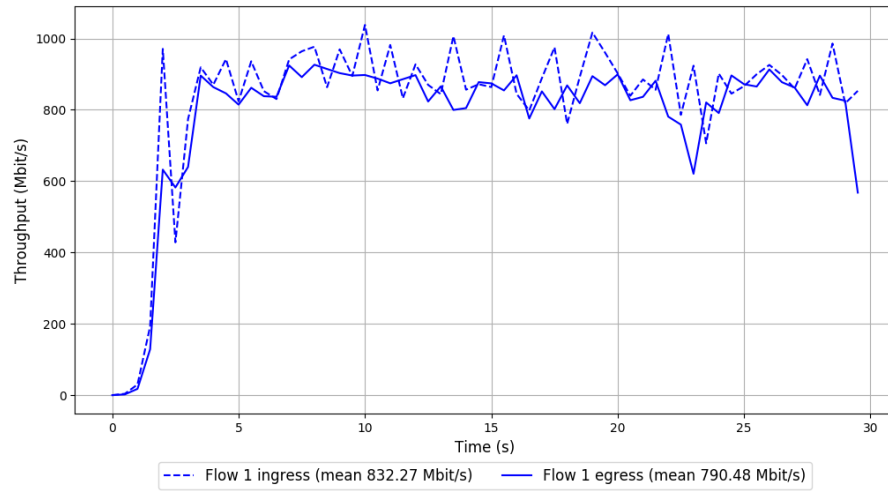
-- Flow 1:

Average throughput: 790.48 Mbit/s

95th percentile per-packet one-way delay: 204.748 ms

Loss rate: 5.73%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-16 22:01:14

End at: 2018-04-16 22:01:44

Below is generated by plot.py at 2018-04-17 02:12:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.19 Mbit/s

95th percentile per-packet one-way delay: 197.368 ms

Loss rate: 5.85%

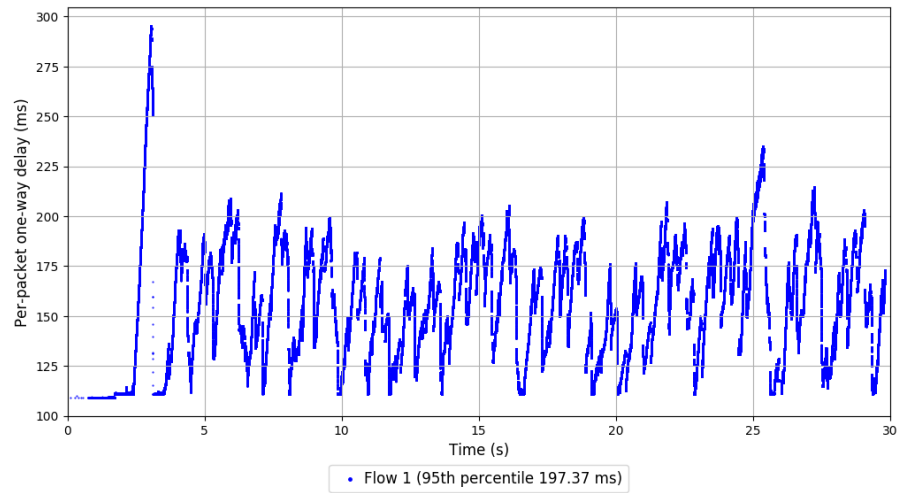
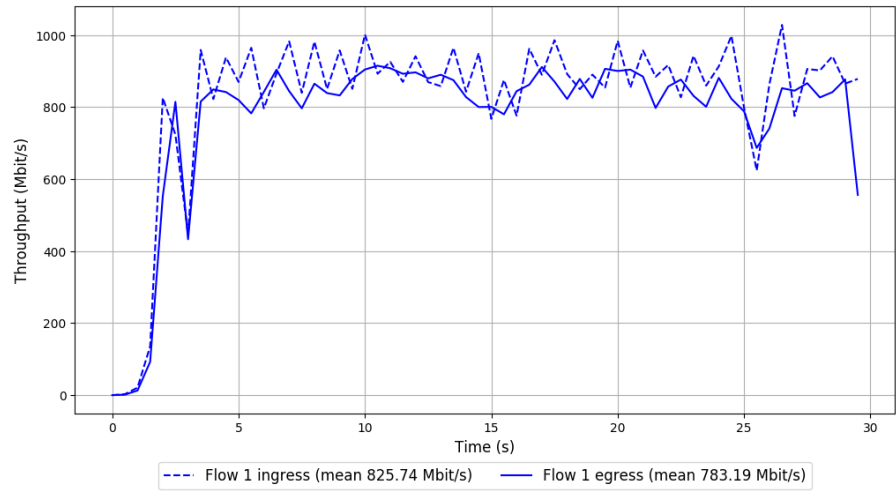
-- Flow 1:

Average throughput: 783.19 Mbit/s

95th percentile per-packet one-way delay: 197.368 ms

Loss rate: 5.85%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-16 22:15:17

End at: 2018-04-16 22:15:47

Below is generated by plot.py at 2018-04-17 02:13:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.68 Mbit/s

95th percentile per-packet one-way delay: 207.678 ms

Loss rate: 6.02%

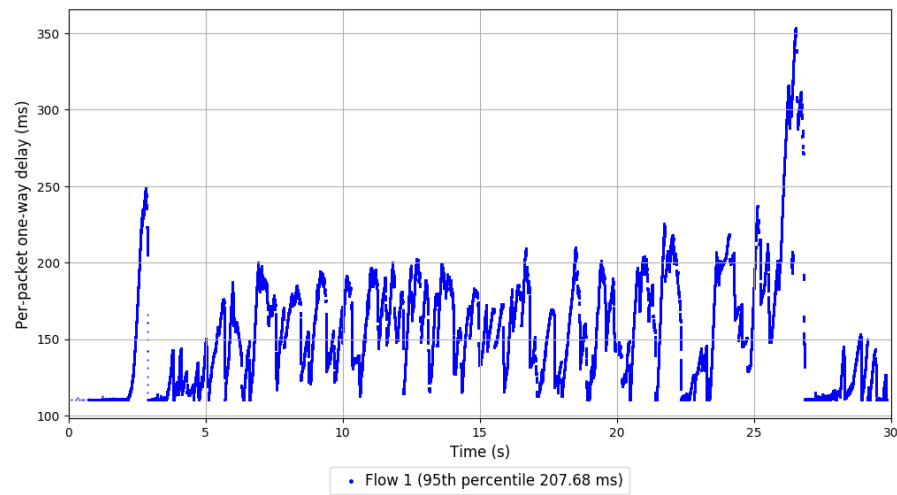
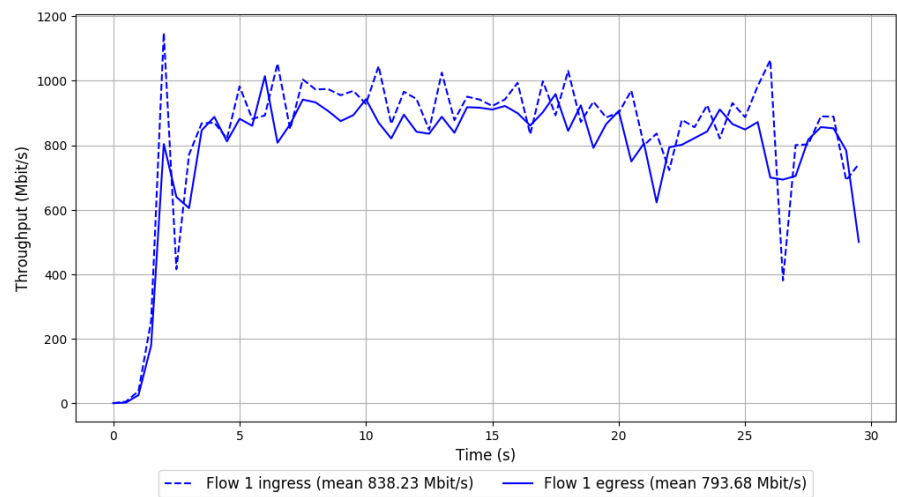
-- Flow 1:

Average throughput: 793.68 Mbit/s

95th percentile per-packet one-way delay: 207.678 ms

Loss rate: 6.02%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-16 22:29:04

End at: 2018-04-16 22:29:34

Below is generated by plot.py at 2018-04-17 02:19:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.07 Mbit/s

95th percentile per-packet one-way delay: 211.918 ms

Loss rate: 5.43%

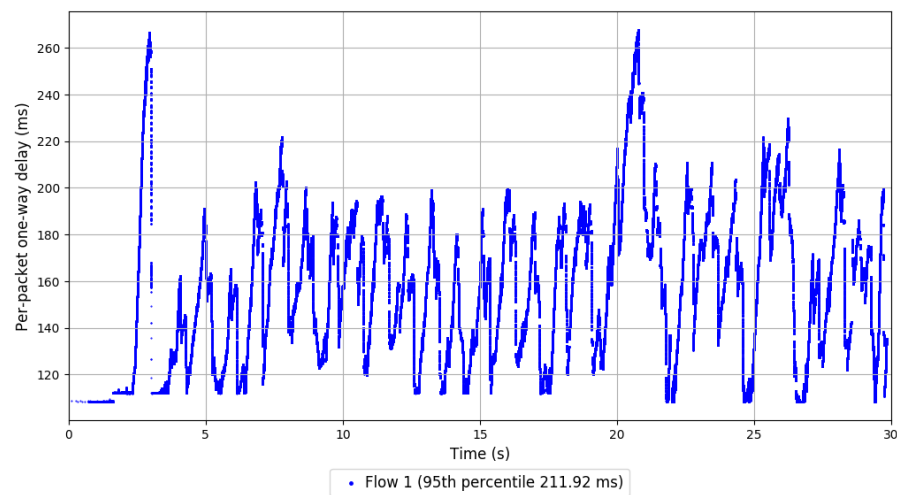
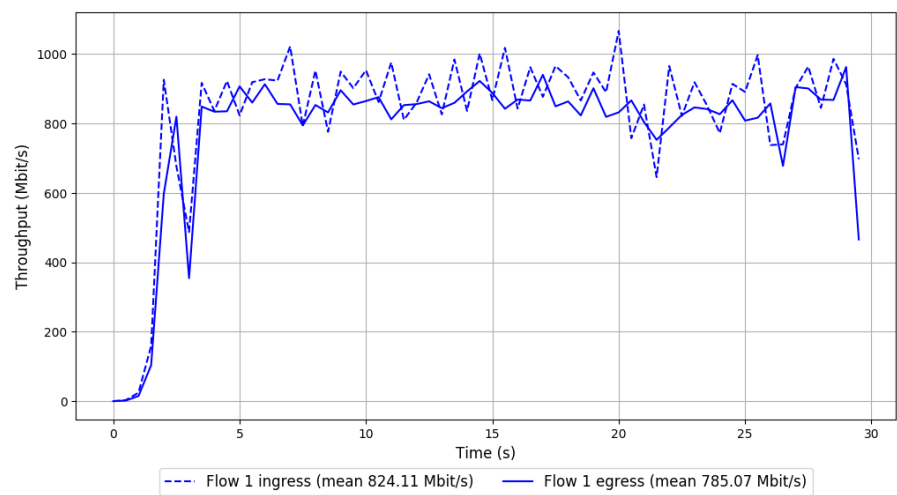
-- Flow 1:

Average throughput: 785.07 Mbit/s

95th percentile per-packet one-way delay: 211.918 ms

Loss rate: 5.43%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-16 22:42:48

End at: 2018-04-16 22:43:18

Below is generated by plot.py at 2018-04-17 02:25:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.82 Mbit/s

95th percentile per-packet one-way delay: 190.173 ms

Loss rate: 5.00%

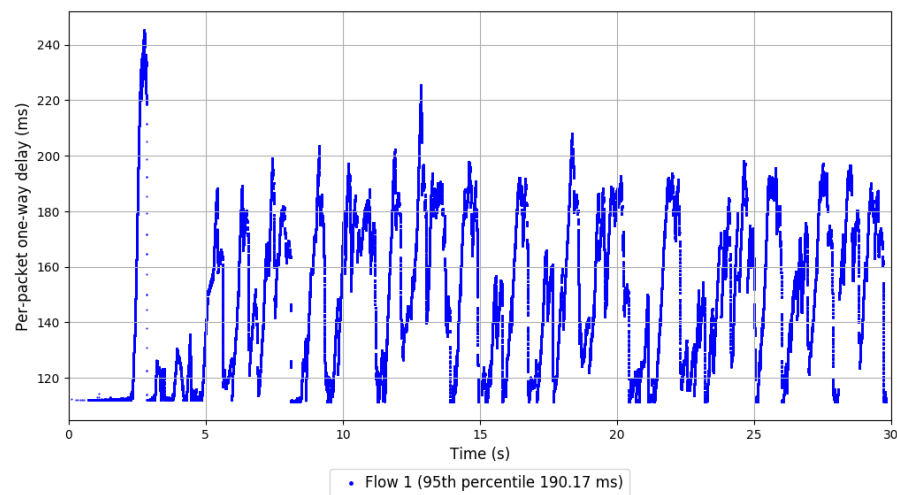
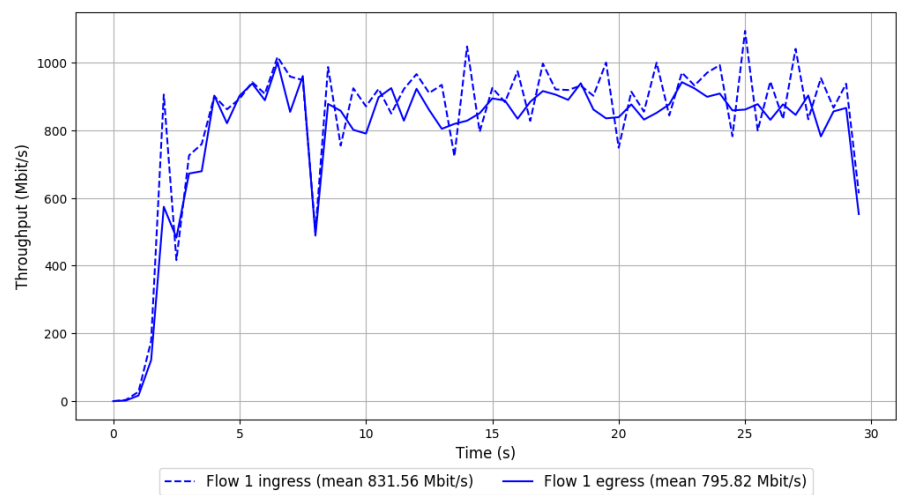
-- Flow 1:

Average throughput: 795.82 Mbit/s

95th percentile per-packet one-way delay: 190.173 ms

Loss rate: 5.00%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-16 22:56:45

End at: 2018-04-16 22:57:15

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.74 Mbit/s

95th percentile per-packet one-way delay: 221.667 ms

Loss rate: 4.71%

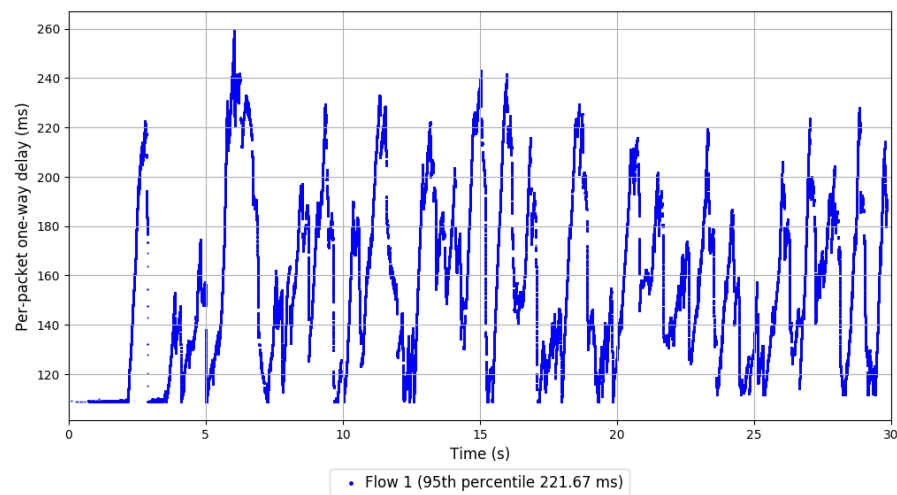
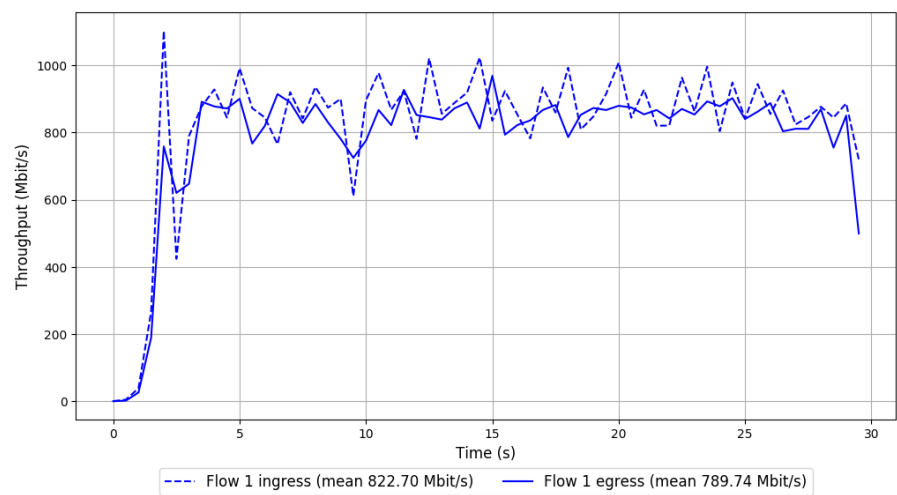
-- Flow 1:

Average throughput: 789.74 Mbit/s

95th percentile per-packet one-way delay: 221.667 ms

Loss rate: 4.71%

Run 10: Report of FillP — Data Link

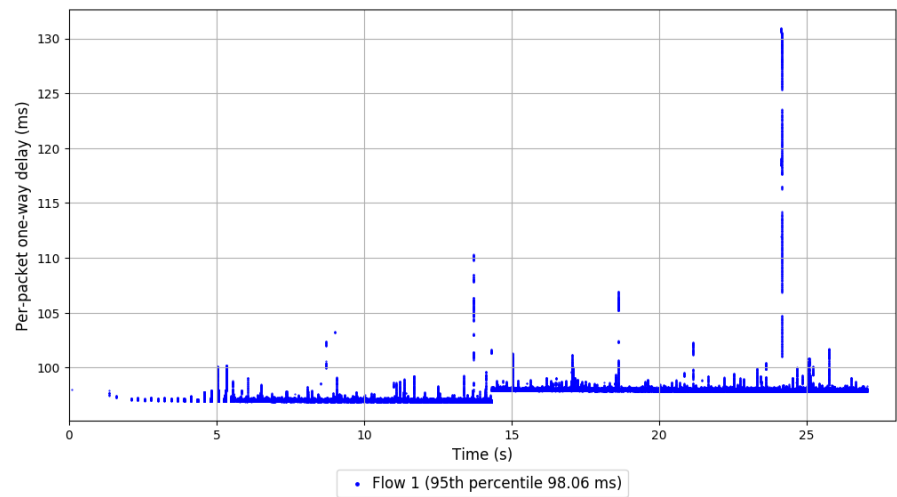
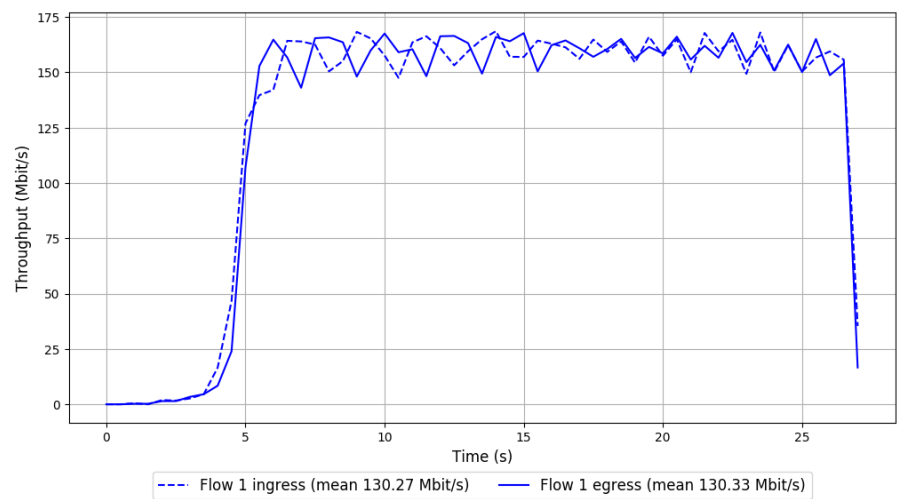


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-16 20:47:28
End at: 2018-04-16 20:47:58

# Below is generated by plot.py at 2018-04-17 02:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 130.33 Mbit/s
95th percentile per-packet one-way delay: 98.056 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 130.33 Mbit/s
95th percentile per-packet one-way delay: 98.056 ms
Loss rate: 0.77%
```

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

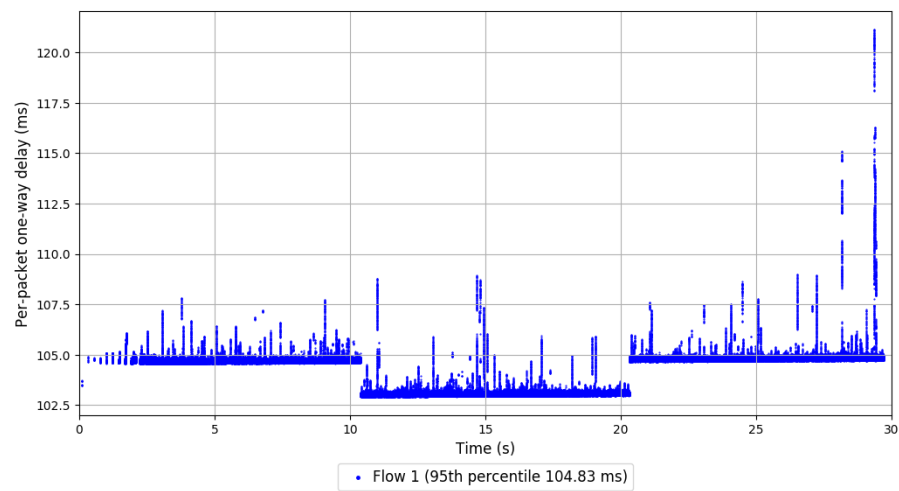
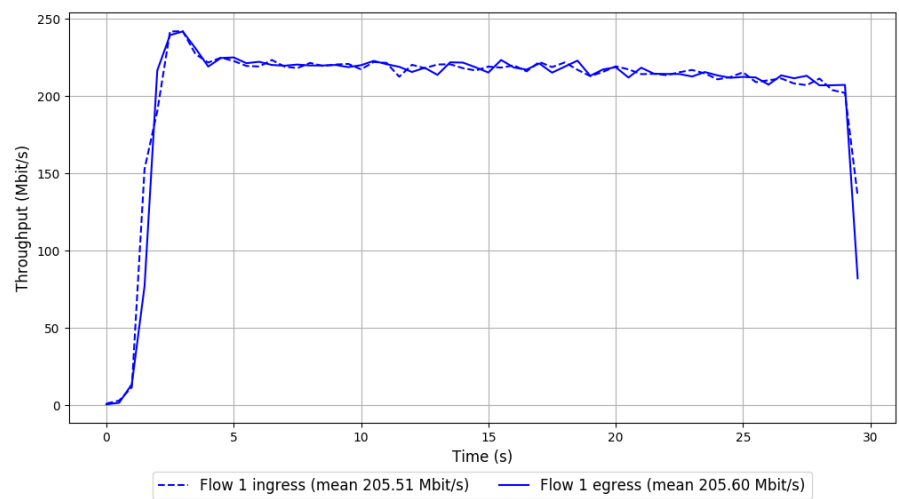


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-16 21:01:15
End at: 2018-04-16 21:01:45

# Below is generated by plot.py at 2018-04-17 02:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.60 Mbit/s
95th percentile per-packet one-way delay: 104.832 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 205.60 Mbit/s
95th percentile per-packet one-way delay: 104.832 ms
Loss rate: 0.70%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-16 21:15:26

End at: 2018-04-16 21:15:56

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.72 Mbit/s

95th percentile per-packet one-way delay: 106.029 ms

Loss rate: 0.80%

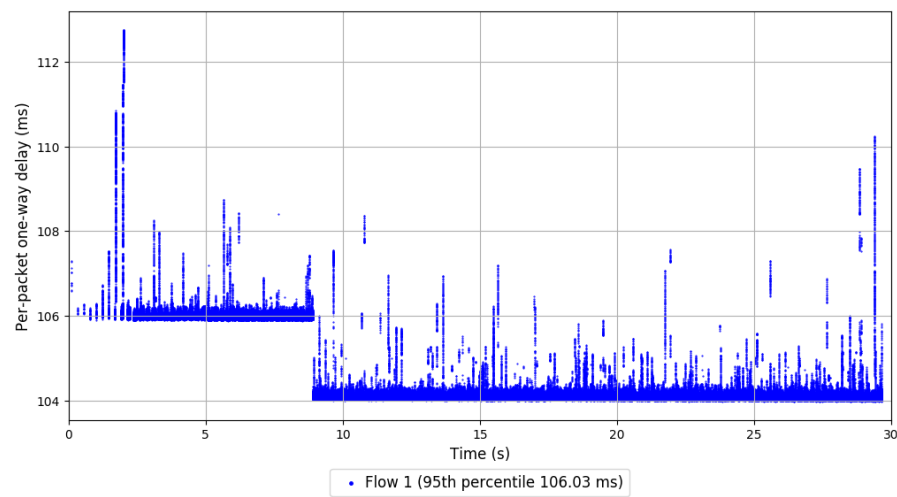
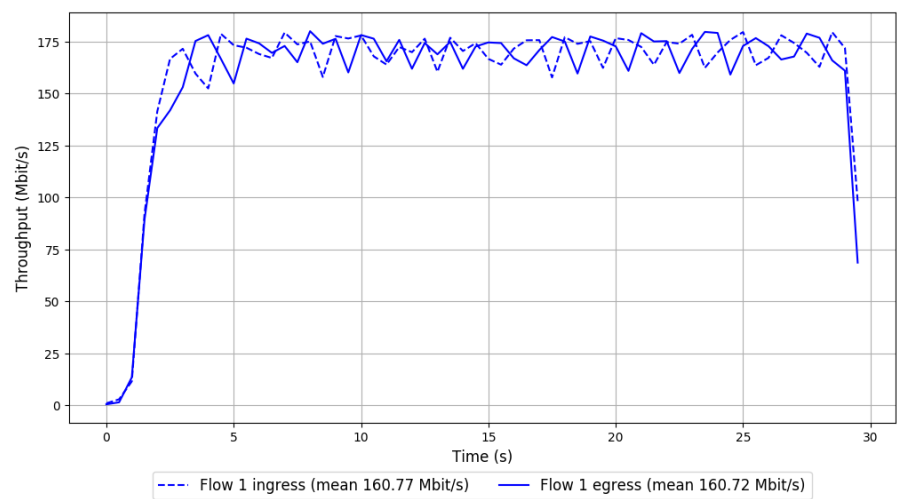
-- Flow 1:

Average throughput: 160.72 Mbit/s

95th percentile per-packet one-way delay: 106.029 ms

Loss rate: 0.80%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-16 21:29:20

End at: 2018-04-16 21:29:50

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.91 Mbit/s

95th percentile per-packet one-way delay: 107.831 ms

Loss rate: 0.77%

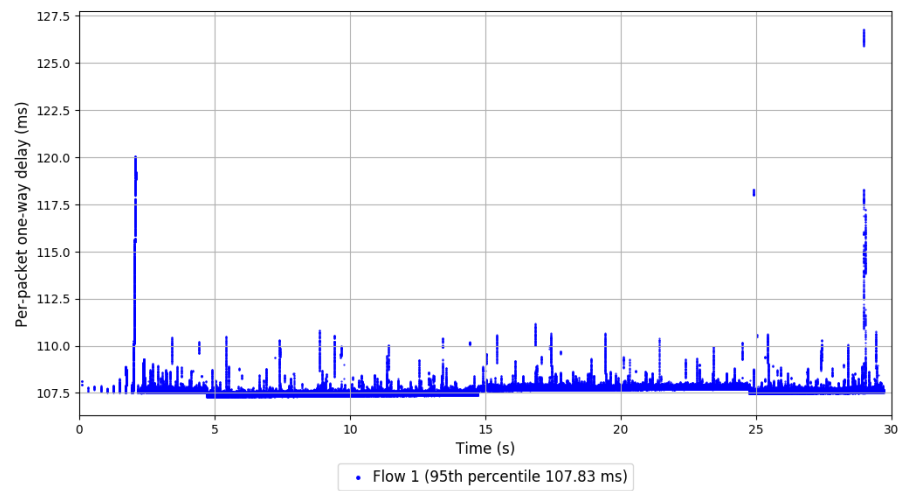
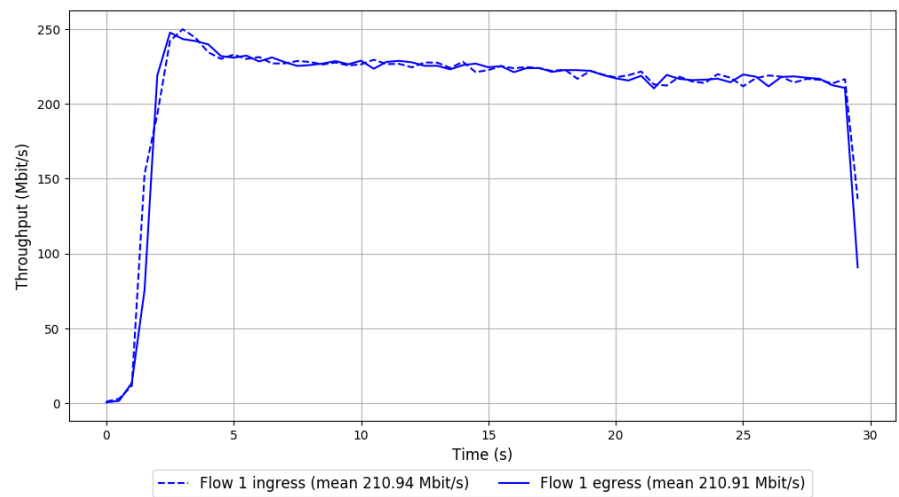
-- Flow 1:

Average throughput: 210.91 Mbit/s

95th percentile per-packet one-way delay: 107.831 ms

Loss rate: 0.77%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-16 21:43:26

End at: 2018-04-16 21:43:56

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.85 Mbit/s

95th percentile per-packet one-way delay: 111.179 ms

Loss rate: 0.79%

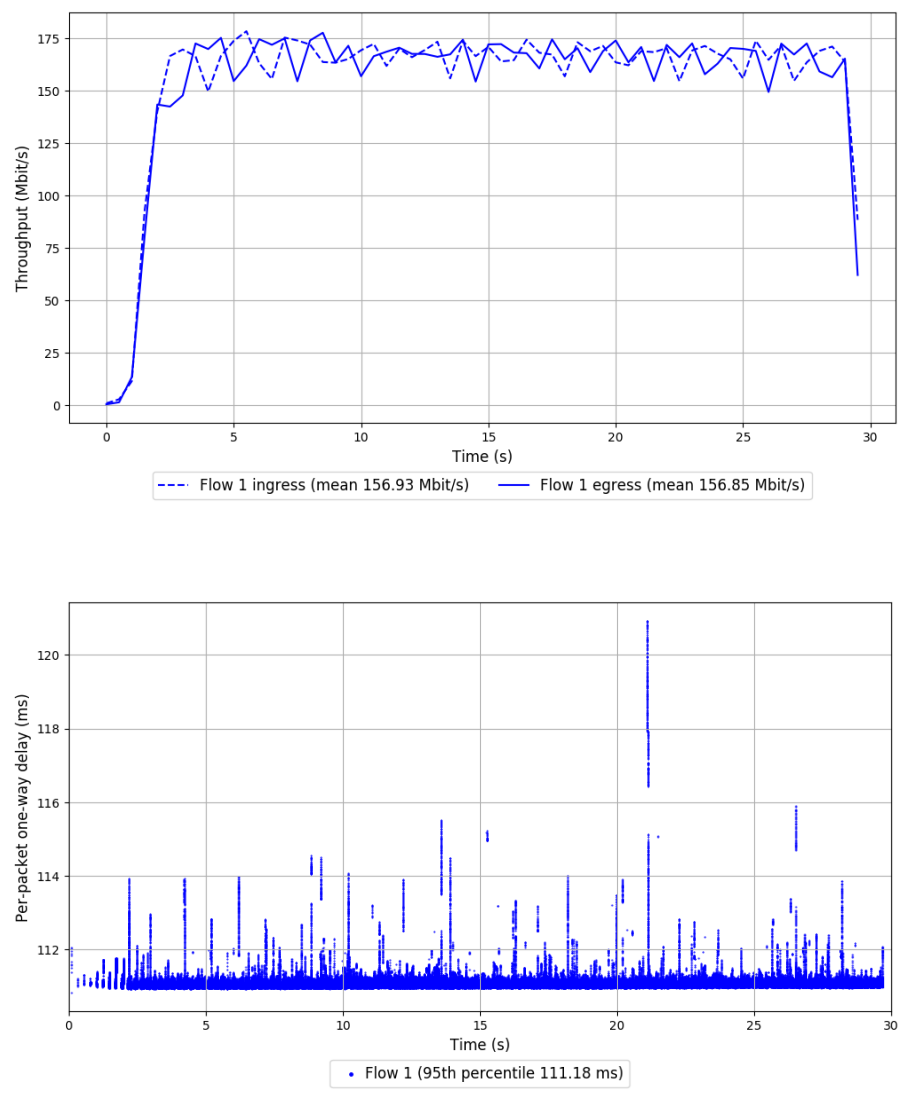
-- Flow 1:

Average throughput: 156.85 Mbit/s

95th percentile per-packet one-way delay: 111.179 ms

Loss rate: 0.79%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-16 21:57:32

End at: 2018-04-16 21:58:02

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.80 Mbit/s

95th percentile per-packet one-way delay: 111.056 ms

Loss rate: 0.77%

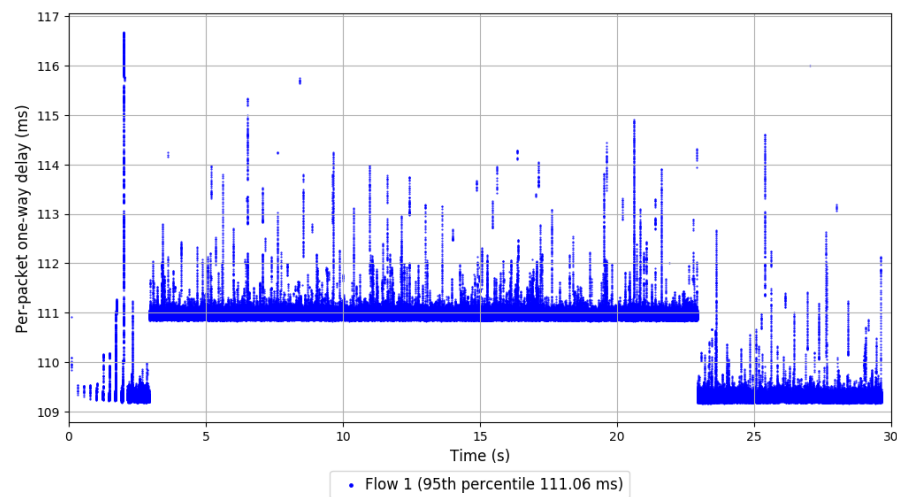
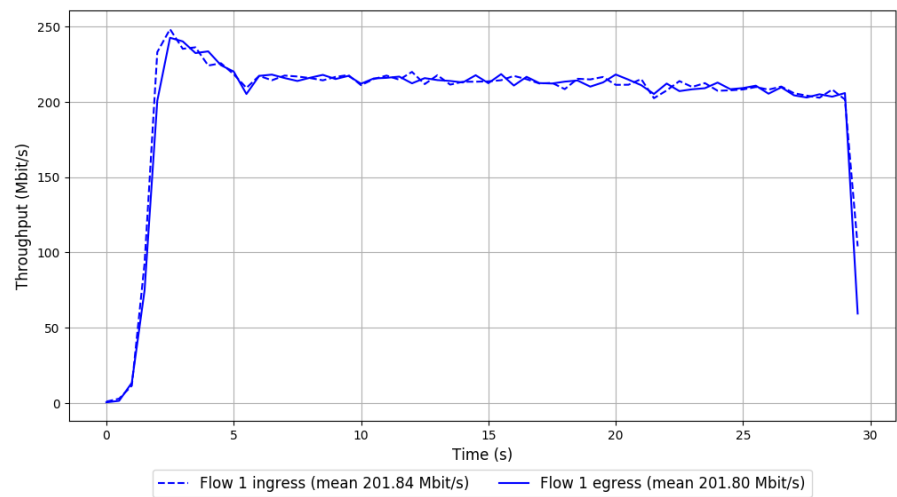
-- Flow 1:

Average throughput: 201.80 Mbit/s

95th percentile per-packet one-way delay: 111.056 ms

Loss rate: 0.77%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-16 22:11:39

End at: 2018-04-16 22:12:09

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.27 Mbit/s

95th percentile per-packet one-way delay: 111.859 ms

Loss rate: 0.77%

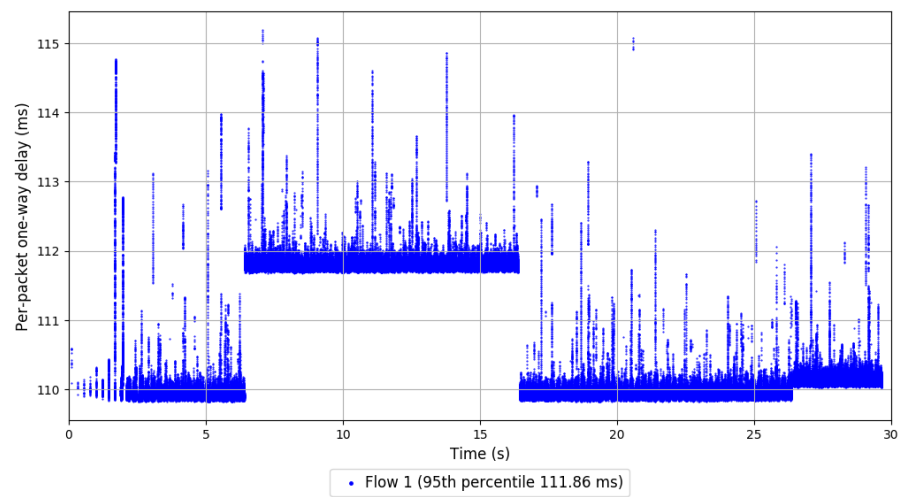
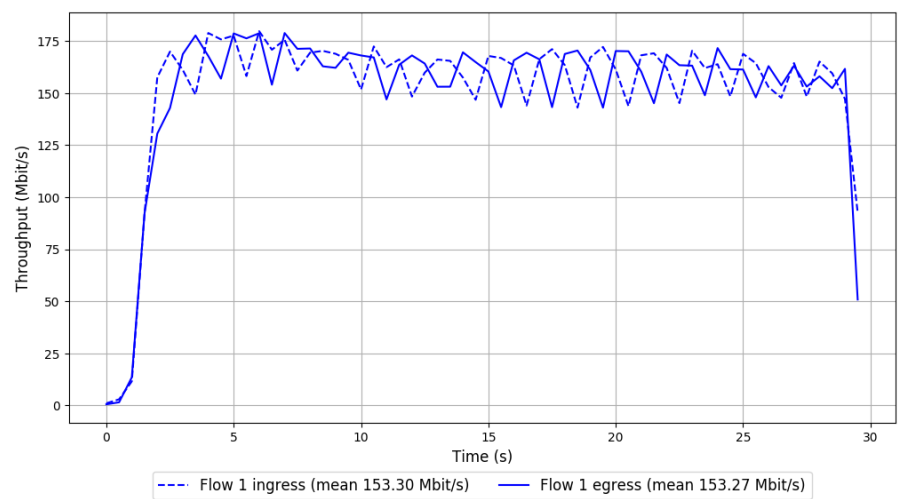
-- Flow 1:

Average throughput: 153.27 Mbit/s

95th percentile per-packet one-way delay: 111.859 ms

Loss rate: 0.77%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-16 22:25:26

End at: 2018-04-16 22:25:56

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 112.115 ms

Loss rate: 0.79%

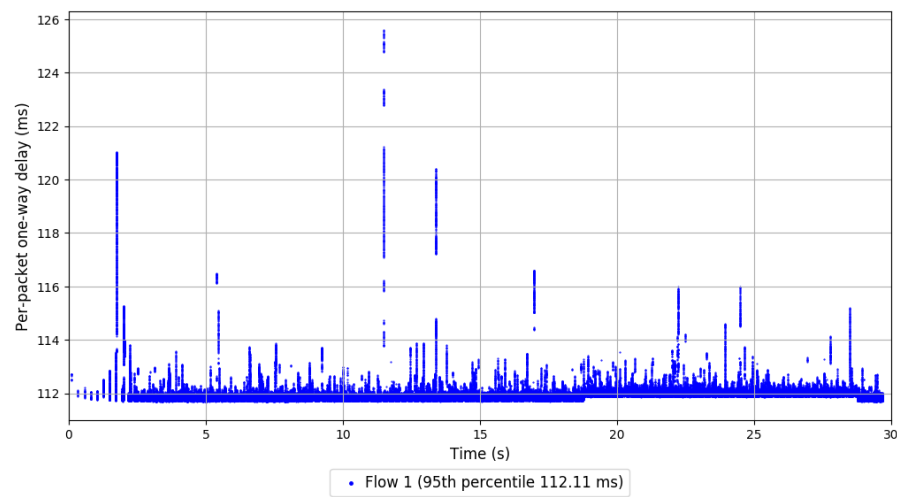
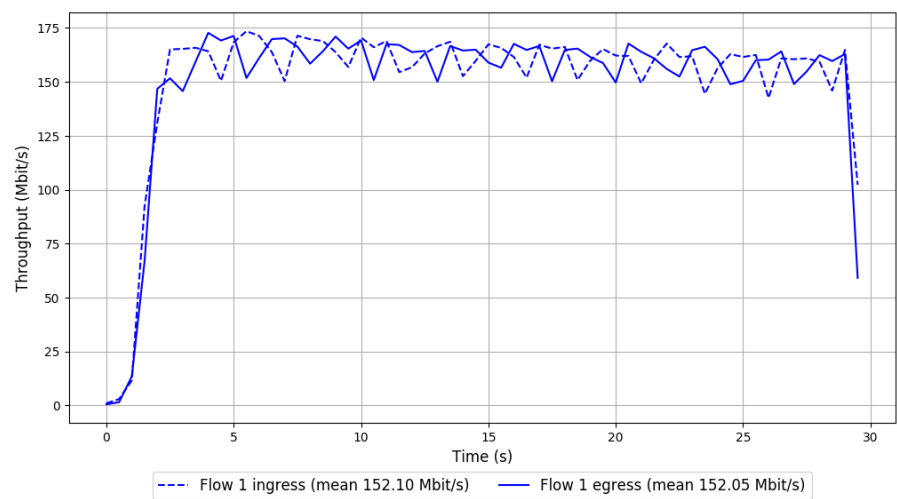
-- Flow 1:

Average throughput: 152.05 Mbit/s

95th percentile per-packet one-way delay: 112.115 ms

Loss rate: 0.79%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-16 22:39:10

End at: 2018-04-16 22:39:40

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.29 Mbit/s

95th percentile per-packet one-way delay: 112.302 ms

Loss rate: 0.83%

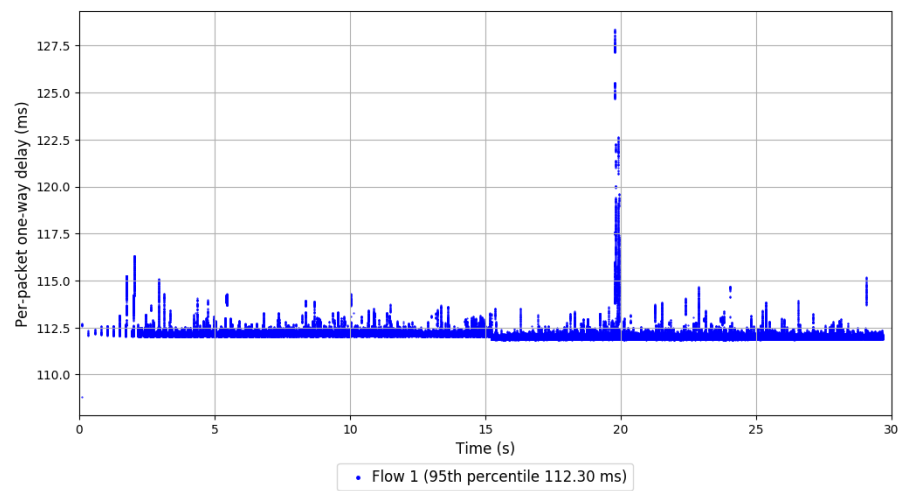
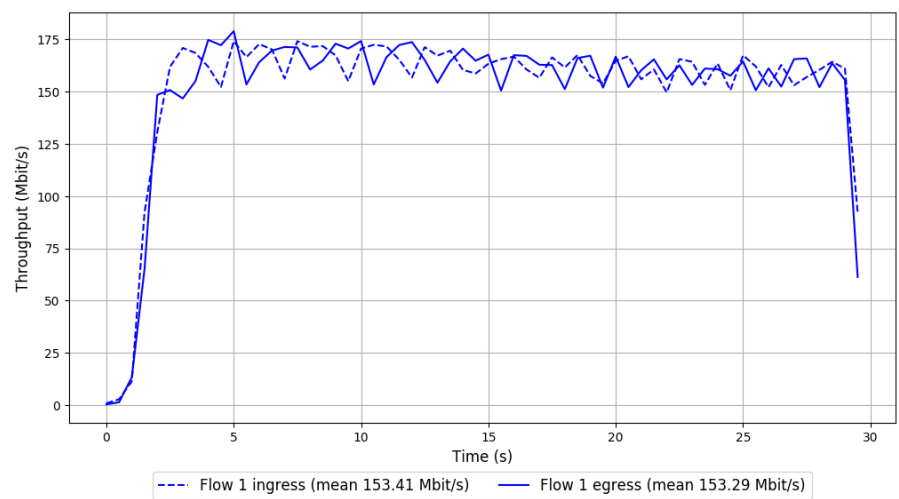
-- Flow 1:

Average throughput: 153.29 Mbit/s

95th percentile per-packet one-way delay: 112.302 ms

Loss rate: 0.83%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-16 22:53:08

End at: 2018-04-16 22:53:38

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.65 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 0.79%

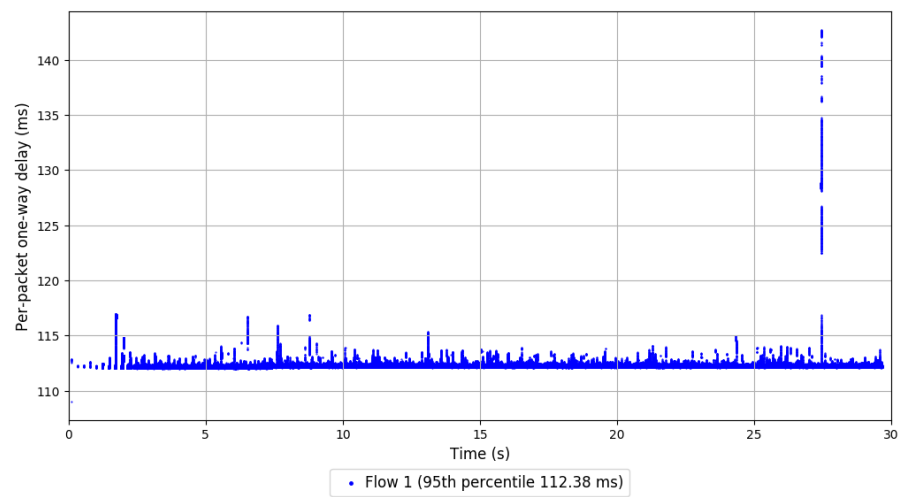
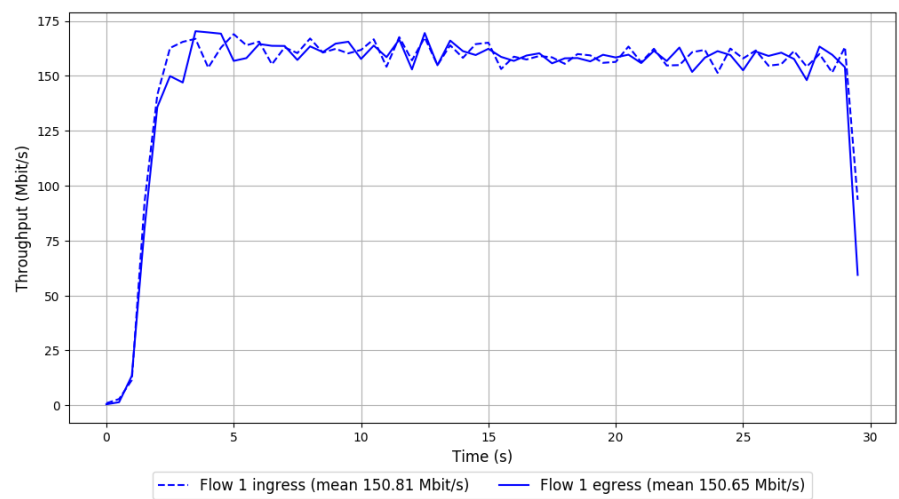
-- Flow 1:

Average throughput: 150.65 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 0.79%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-16 20:46:29

End at: 2018-04-16 20:46:59

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.24 Mbit/s

95th percentile per-packet one-way delay: 99.060 ms

Loss rate: 0.96%

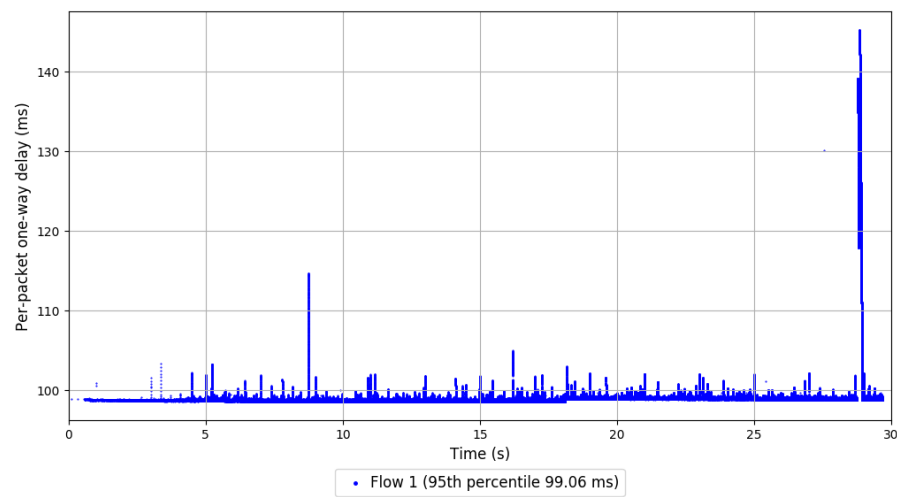
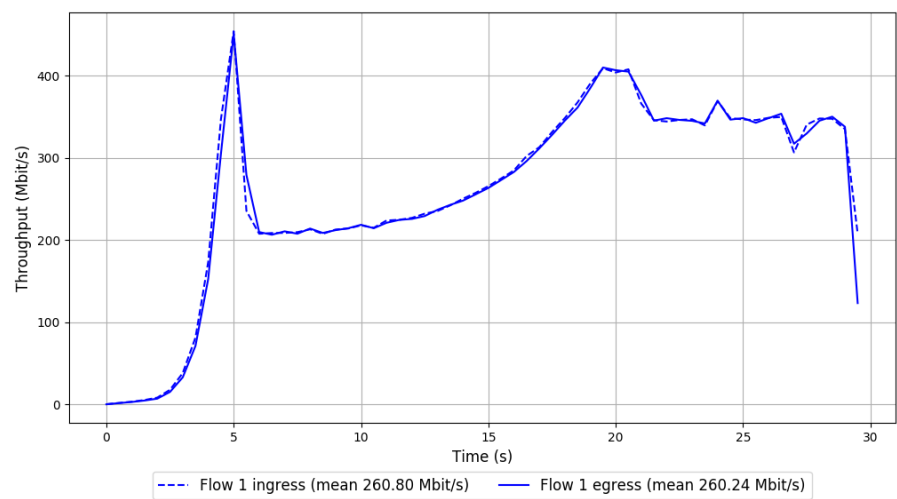
-- Flow 1:

Average throughput: 260.24 Mbit/s

95th percentile per-packet one-way delay: 99.060 ms

Loss rate: 0.96%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-16 21:00:09

End at: 2018-04-16 21:00:39

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.78 Mbit/s

95th percentile per-packet one-way delay: 105.250 ms

Loss rate: 0.79%

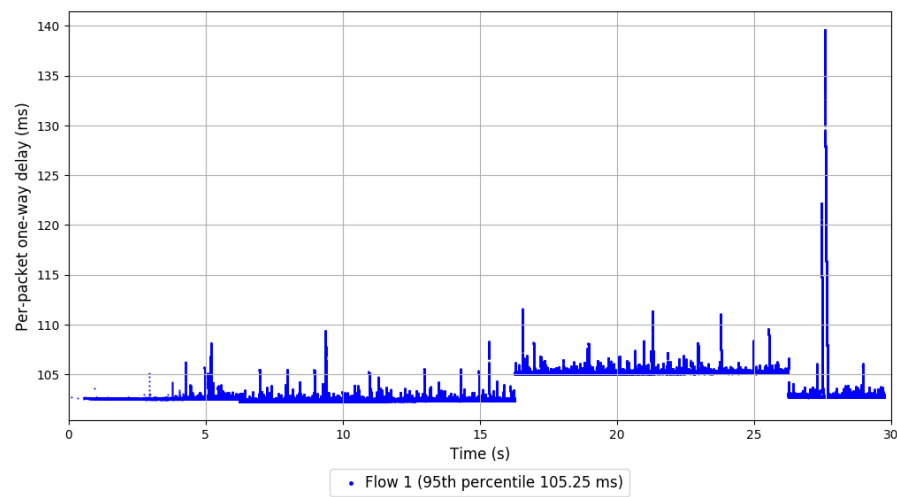
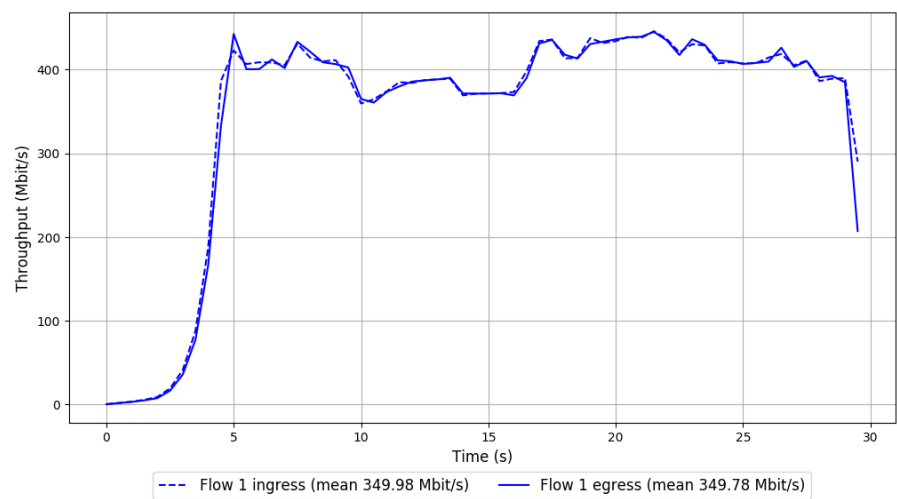
-- Flow 1:

Average throughput: 349.78 Mbit/s

95th percentile per-packet one-way delay: 105.250 ms

Loss rate: 0.79%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-16 21:14:20

End at: 2018-04-16 21:14:50

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.65 Mbit/s

95th percentile per-packet one-way delay: 106.384 ms

Loss rate: 0.75%

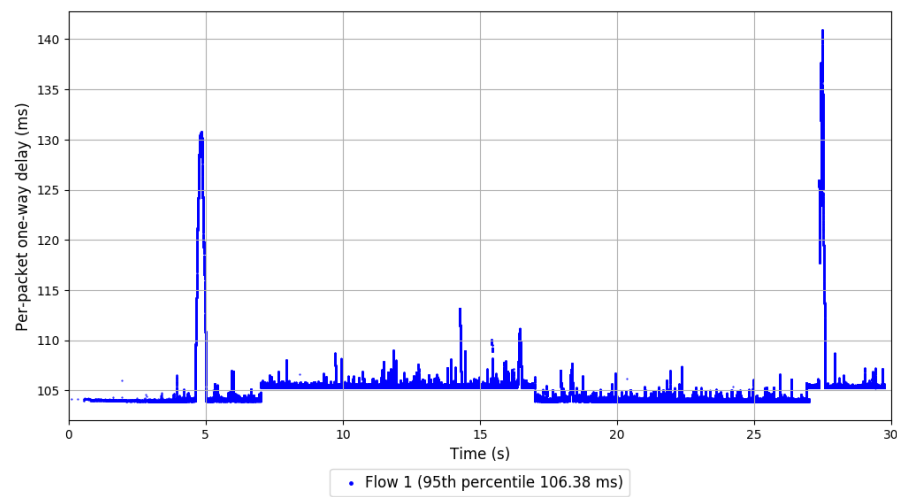
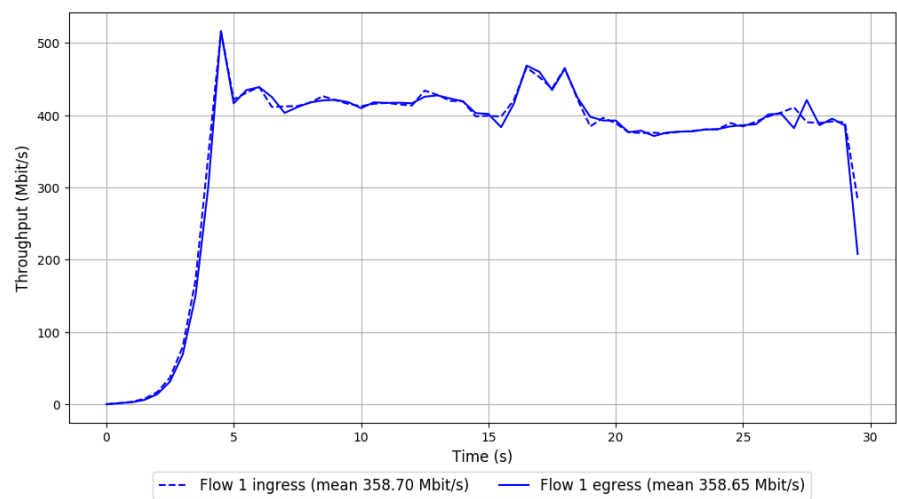
-- Flow 1:

Average throughput: 358.65 Mbit/s

95th percentile per-packet one-way delay: 106.384 ms

Loss rate: 0.75%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-16 21:28:21

End at: 2018-04-16 21:28:51

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.26 Mbit/s

95th percentile per-packet one-way delay: 110.520 ms

Loss rate: 0.89%

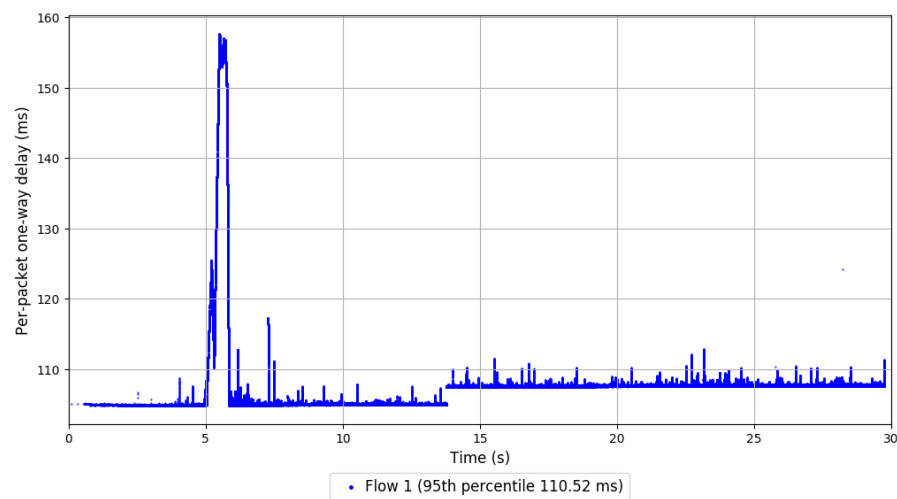
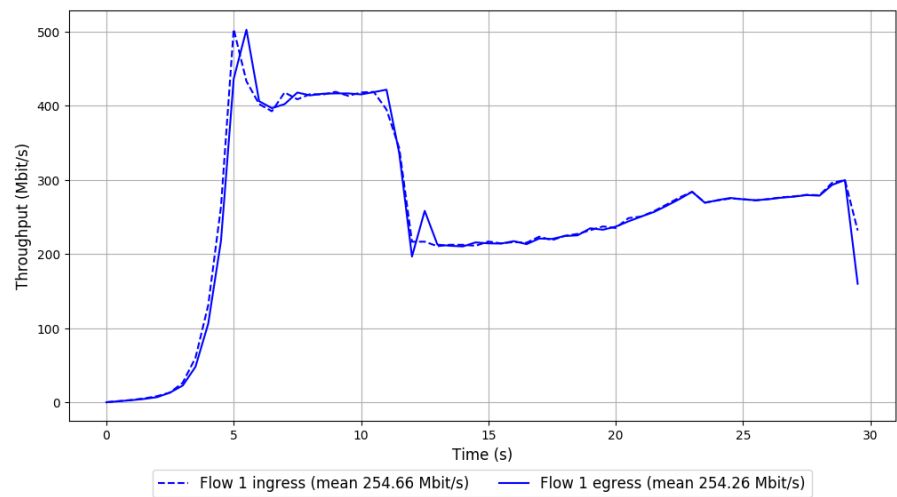
-- Flow 1:

Average throughput: 254.26 Mbit/s

95th percentile per-packet one-way delay: 110.520 ms

Loss rate: 0.89%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-16 21:42:22

End at: 2018-04-16 21:42:52

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.52 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 0.50%

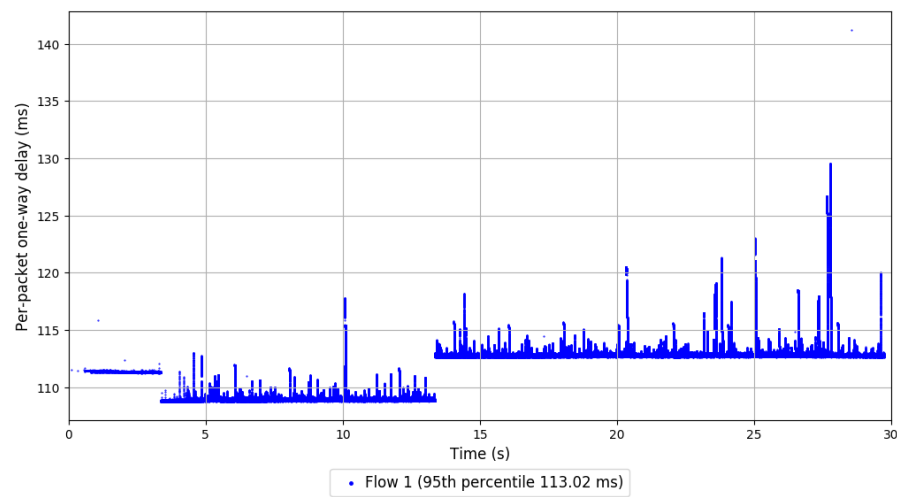
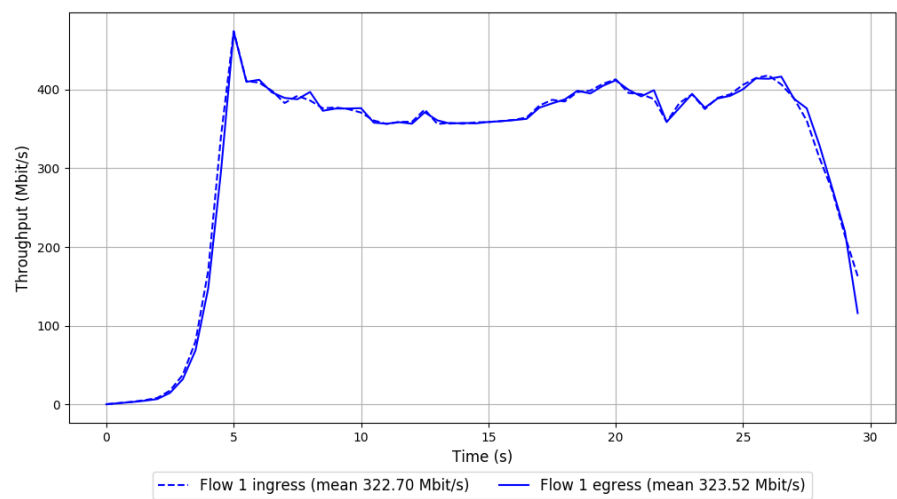
-- Flow 1:

Average throughput: 323.52 Mbit/s

95th percentile per-packet one-way delay: 113.015 ms

Loss rate: 0.50%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-16 21:56:28

End at: 2018-04-16 21:56:58

Below is generated by plot.py at 2018-04-17 02:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.01 Mbit/s

95th percentile per-packet one-way delay: 111.629 ms

Loss rate: 0.90%

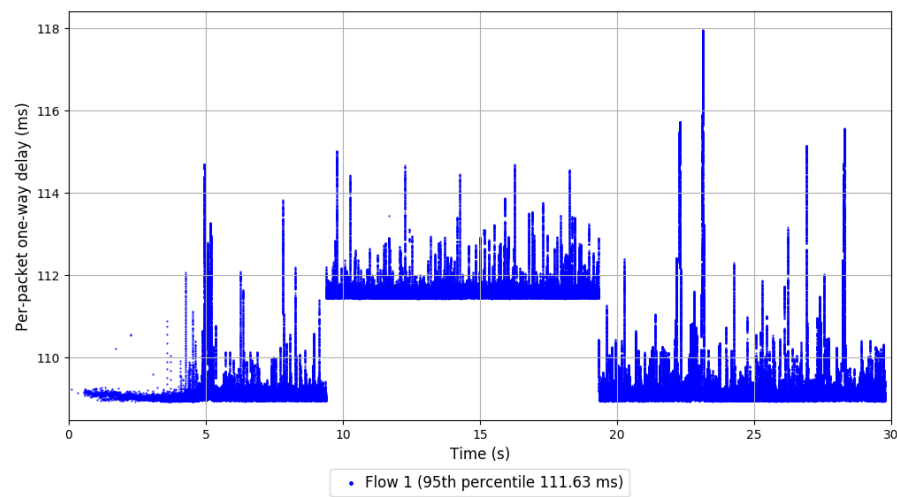
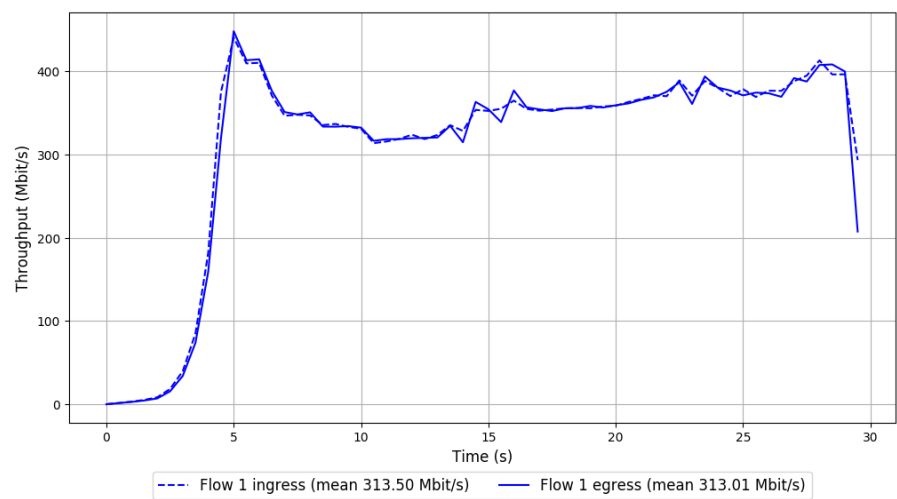
-- Flow 1:

Average throughput: 313.01 Mbit/s

95th percentile per-packet one-way delay: 111.629 ms

Loss rate: 0.90%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-16 22:10:34

End at: 2018-04-16 22:11:04

Below is generated by plot.py at 2018-04-17 02:27:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.96 Mbit/s

95th percentile per-packet one-way delay: 112.403 ms

Loss rate: 0.76%

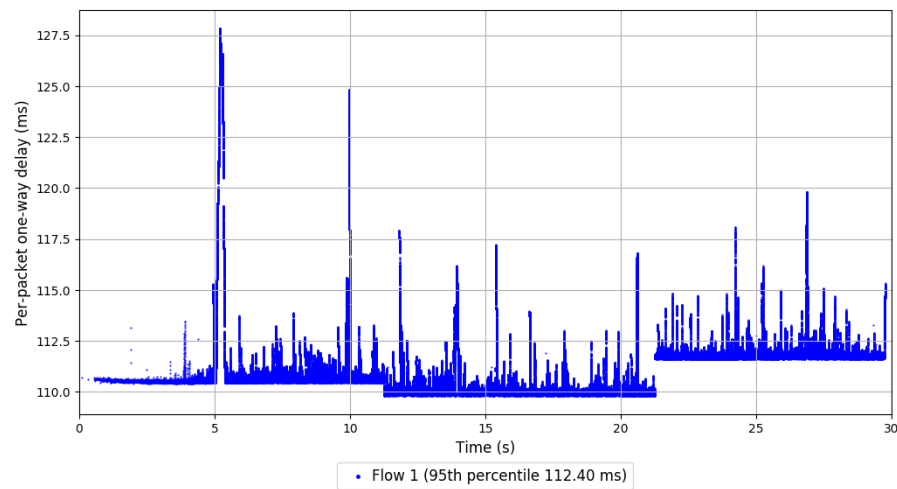
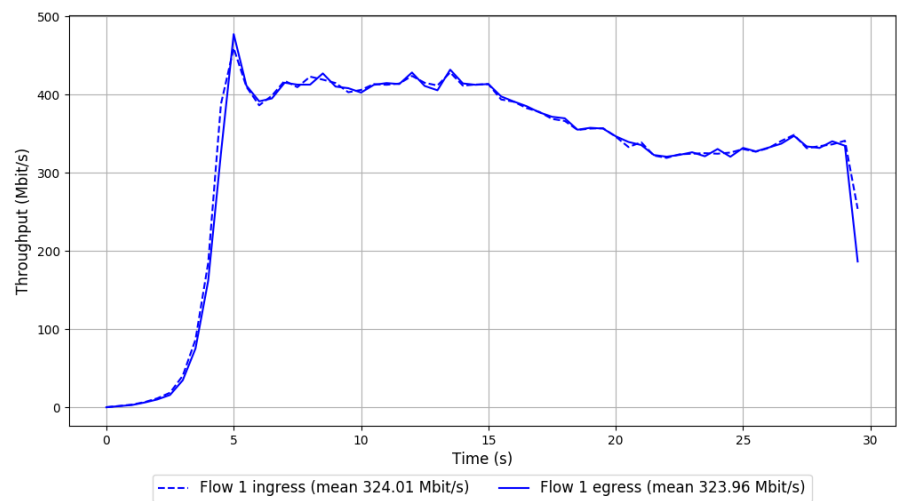
-- Flow 1:

Average throughput: 323.96 Mbit/s

95th percentile per-packet one-way delay: 112.403 ms

Loss rate: 0.76%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-16 22:24:22

End at: 2018-04-16 22:24:52

Below is generated by plot.py at 2018-04-17 02:27:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 326.94 Mbit/s

95th percentile per-packet one-way delay: 118.627 ms

Loss rate: 0.75%

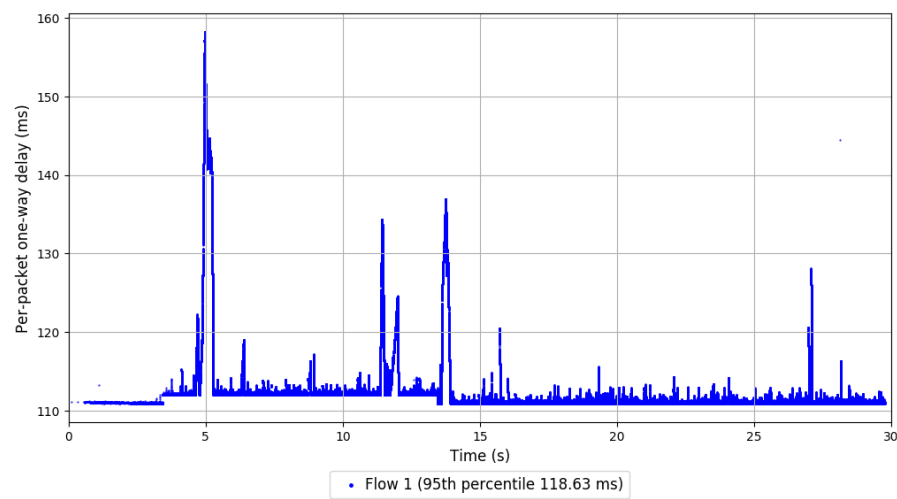
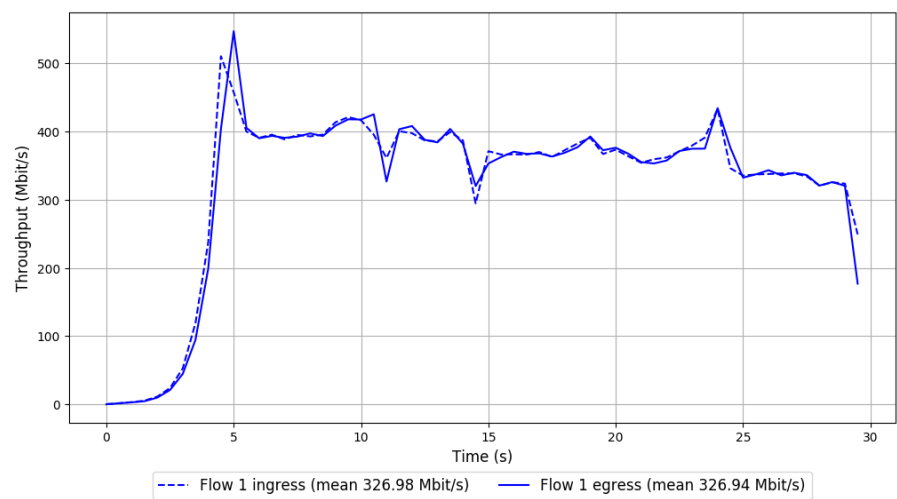
-- Flow 1:

Average throughput: 326.94 Mbit/s

95th percentile per-packet one-way delay: 118.627 ms

Loss rate: 0.75%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-16 22:38:09

End at: 2018-04-16 22:38:39

Below is generated by plot.py at 2018-04-17 02:27:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.71 Mbit/s

95th percentile per-packet one-way delay: 110.270 ms

Loss rate: 0.94%

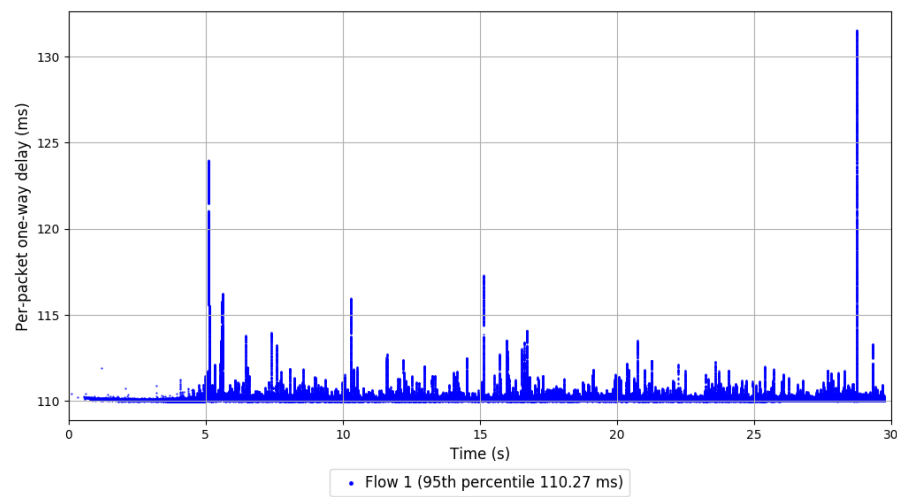
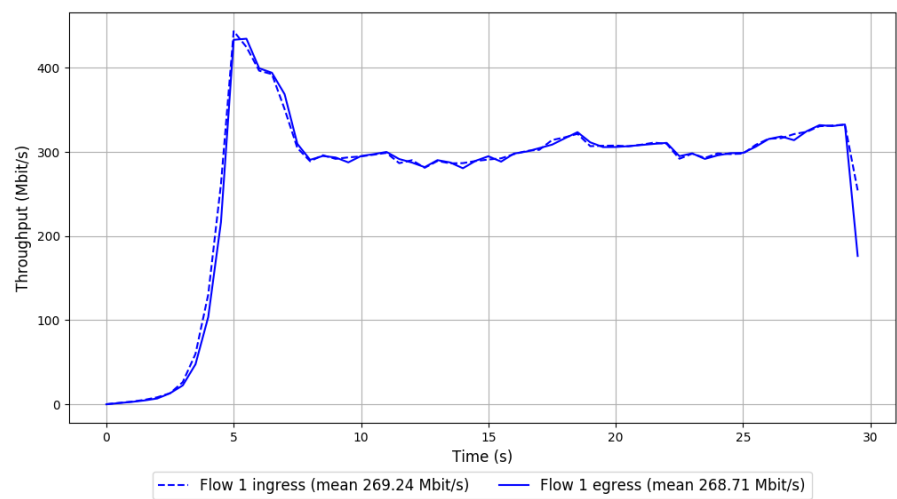
-- Flow 1:

Average throughput: 268.71 Mbit/s

95th percentile per-packet one-way delay: 110.270 ms

Loss rate: 0.94%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-16 22:52:02

End at: 2018-04-16 22:52:32

Below is generated by plot.py at 2018-04-17 02:27:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.22 Mbit/s

95th percentile per-packet one-way delay: 129.229 ms

Loss rate: 0.85%

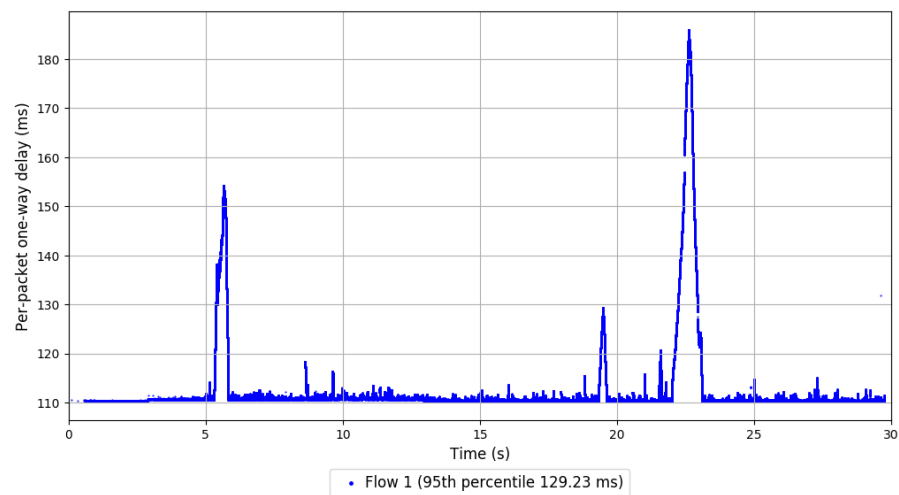
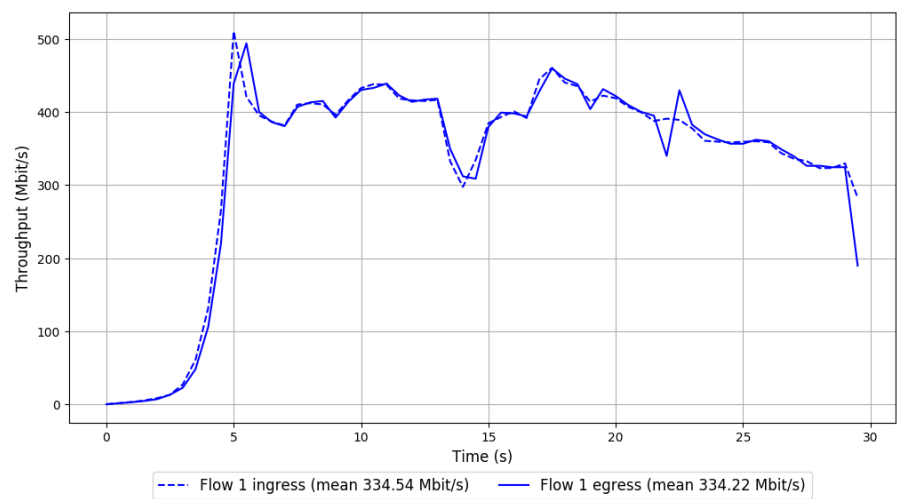
-- Flow 1:

Average throughput: 334.22 Mbit/s

95th percentile per-packet one-way delay: 129.229 ms

Loss rate: 0.85%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-16 20:49:02

End at: 2018-04-16 20:49:32

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-16 21:02:54

End at: 2018-04-16 21:03:24

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

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

End at: 2018-04-16 21:17:34

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-16 21:31:00

End at: 2018-04-16 21:31:30

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-16 21:45:02

End at: 2018-04-16 21:45:32

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-16 21:59:12

End at: 2018-04-16 21:59:42

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-16 22:13:15

End at: 2018-04-16 22:13:45

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-16 22:27:02

End at: 2018-04-16 22:27:32

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-16 22:40:46

End at: 2018-04-16 22:41:16

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-16 22:54:44

End at: 2018-04-16 22:55:14

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing