

Pantheon Report

Generated at 2018-02-27 12:59:05 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

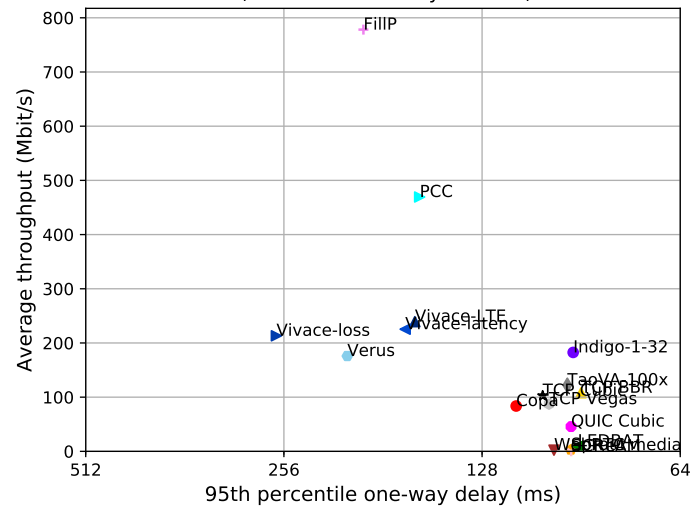
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

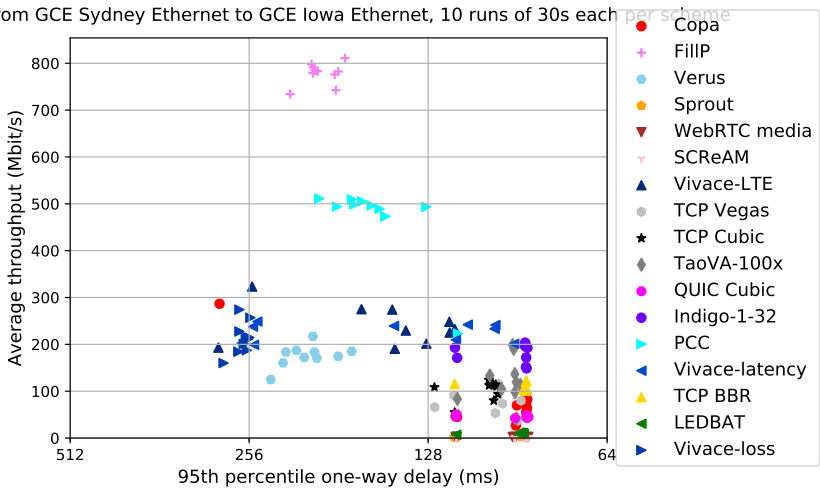
Git summary:

```
branch: master @ f12c42a2c63fdd9a862eefa0468859bf379b6623
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 828bbf95fd4941149b5ce90f281d1c69ae1a5c6
third_party/genericCC @ 9249eea3238475c4d8cca1443d28df70bff6c4a2
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



test from GCE Sydney Ethernet to GCE Iowa Ethernet, 10 runs of 30s each



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	108.12	90.54	0.70
TCP Cubic	10	102.67	103.56	0.74
LEDBAT	10	9.29	91.63	1.32
PCC	10	469.33	159.22	2.35
QUIC Cubic	9	45.71	93.77	1.01
SCReAM	10	0.21	93.73	0.60
WebRTC media	10	2.16	99.53	0.78
Sprout	10	2.91	93.84	1.08
TaoVA-100x	10	121.96	95.00	0.29
TCP Vegas	10	87.12	101.28	0.64
Verus	10	175.90	205.11	3.43
Copa	10	83.65	113.61	5.11
FillP	10	778.19	193.84	12.00
Indigo-1-32	10	182.55	93.07	0.68
Vivace-latency	10	225.39	167.52	1.38
Vivace-loss	10	213.22	262.79	7.75
Vivace-LTE	10	239.36	161.93	2.20

Run 1: Statistics of TCP BBR

Start at: 2018-02-27 06:14:46

End at: 2018-02-27 06:15:16

Below is generated by plot.py at 2018-02-27 11:19:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.40 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 0.70%

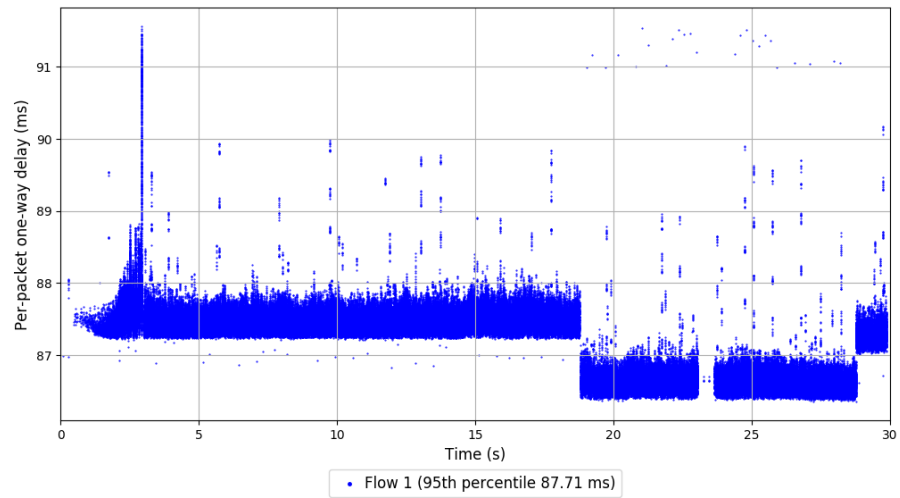
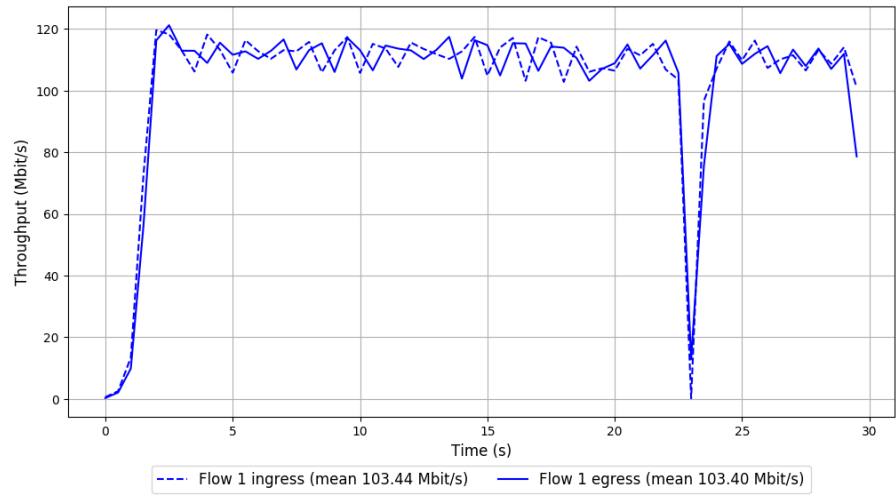
-- Flow 1:

Average throughput: 103.40 Mbit/s

95th percentile per-packet one-way delay: 87.712 ms

Loss rate: 0.70%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-02-27 06:30:06

End at: 2018-02-27 06:30:36

Below is generated by plot.py at 2018-02-27 11:19:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.73 Mbit/s

95th percentile per-packet one-way delay: 87.977 ms

Loss rate: 0.79%

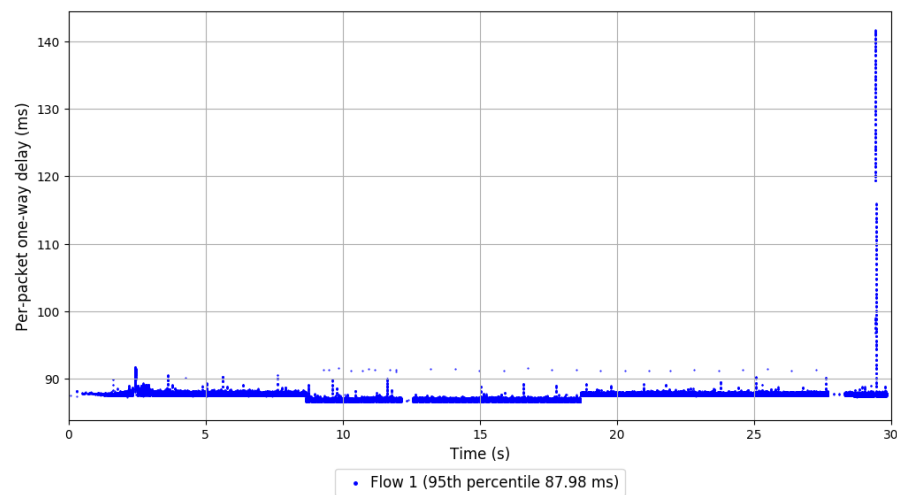
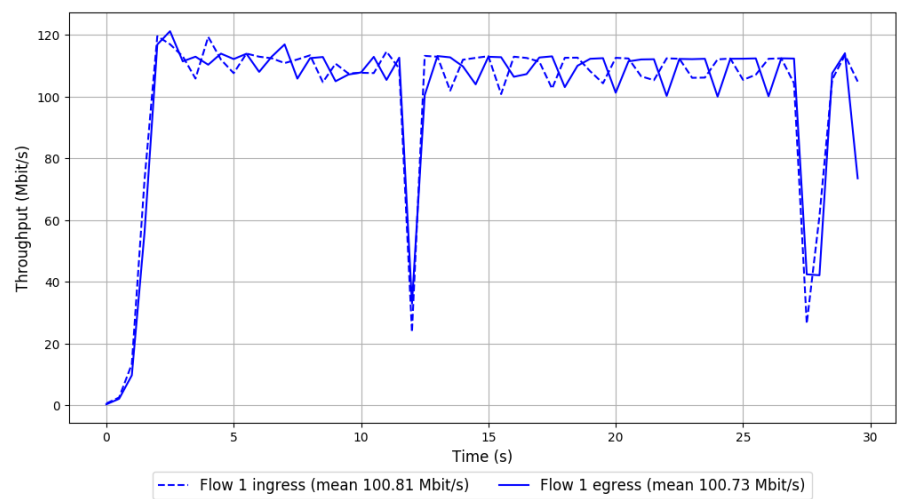
-- Flow 1:

Average throughput: 100.73 Mbit/s

95th percentile per-packet one-way delay: 87.977 ms

Loss rate: 0.79%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-02-27 06:45:30

End at: 2018-02-27 06:46:00

Below is generated by plot.py at 2018-02-27 11:19:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.84 Mbit/s

95th percentile per-packet one-way delay: 87.929 ms

Loss rate: 0.69%

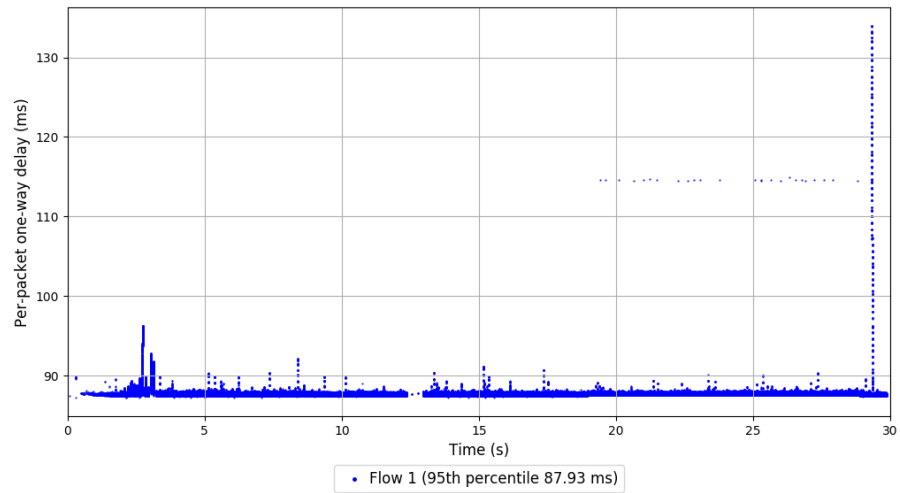
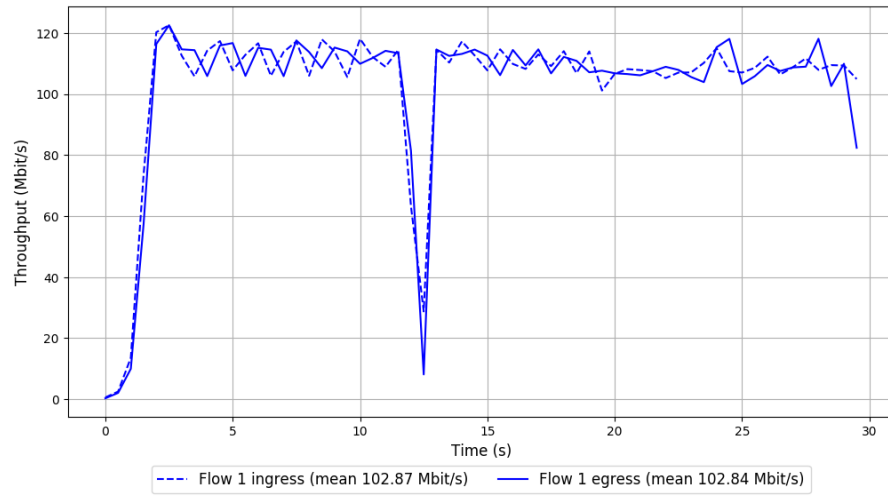
-- Flow 1:

Average throughput: 102.84 Mbit/s

95th percentile per-packet one-way delay: 87.929 ms

Loss rate: 0.69%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-02-27 07:00:29

End at: 2018-02-27 07:00:59

Below is generated by plot.py at 2018-02-27 11:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.51 Mbit/s

95th percentile per-packet one-way delay: 115.491 ms

Loss rate: 0.67%

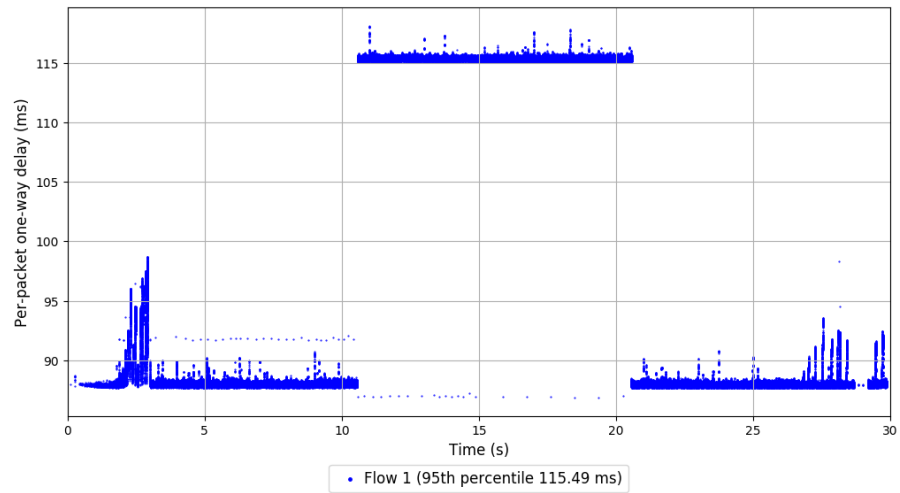
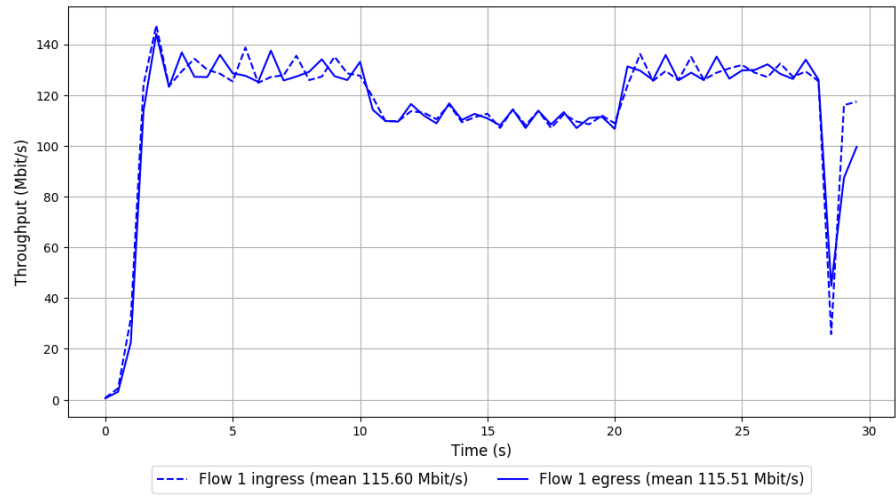
-- Flow 1:

Average throughput: 115.51 Mbit/s

95th percentile per-packet one-way delay: 115.491 ms

Loss rate: 0.67%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-02-27 07:15:45

End at: 2018-02-27 07:16:15

Below is generated by plot.py at 2018-02-27 11:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.25 Mbit/s

95th percentile per-packet one-way delay: 87.673 ms

Loss rate: 0.65%

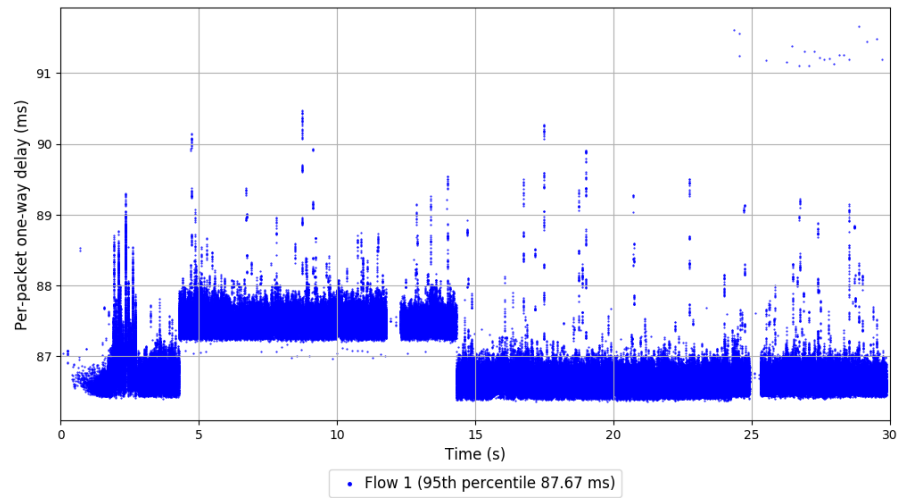
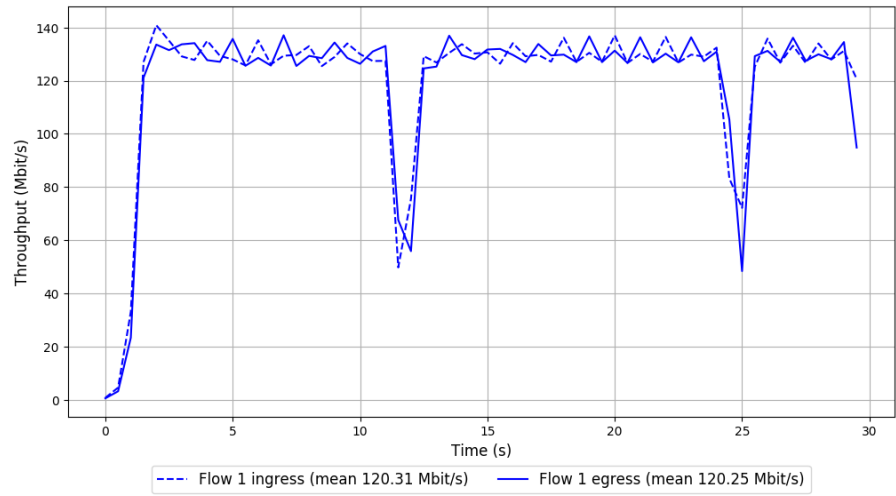
-- Flow 1:

Average throughput: 120.25 Mbit/s

95th percentile per-packet one-way delay: 87.673 ms

Loss rate: 0.65%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-02-27 07:31:06

End at: 2018-02-27 07:31:36

Below is generated by plot.py at 2018-02-27 11:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.95 Mbit/s

95th percentile per-packet one-way delay: 87.587 ms

Loss rate: 0.64%

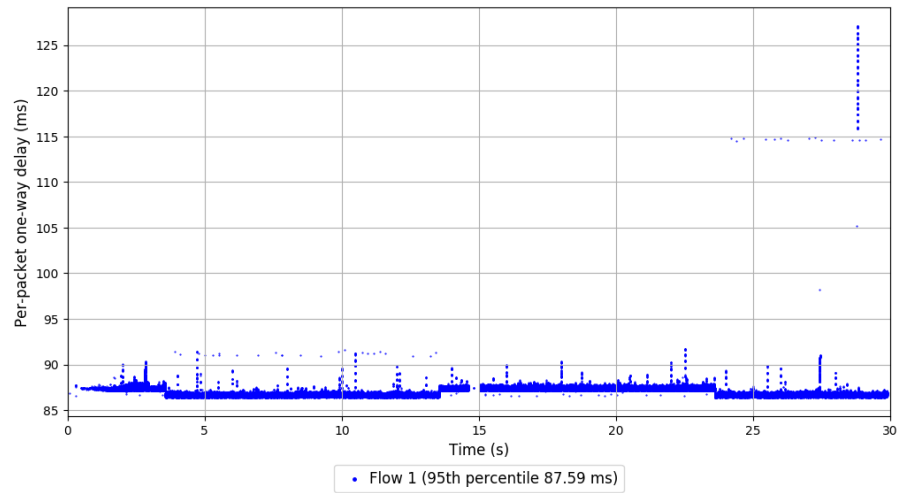
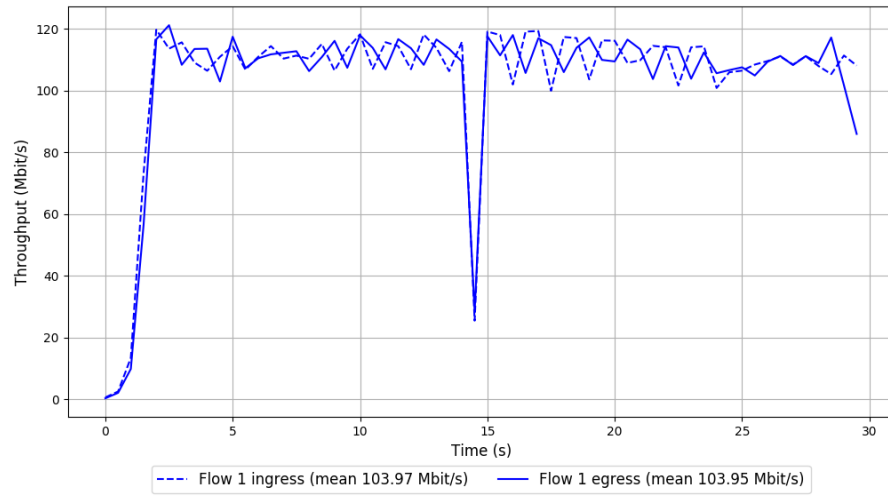
-- Flow 1:

Average throughput: 103.95 Mbit/s

95th percentile per-packet one-way delay: 87.587 ms

Loss rate: 0.64%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-02-27 07:46:47

End at: 2018-02-27 07:47:17

Below is generated by plot.py at 2018-02-27 11:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.64%

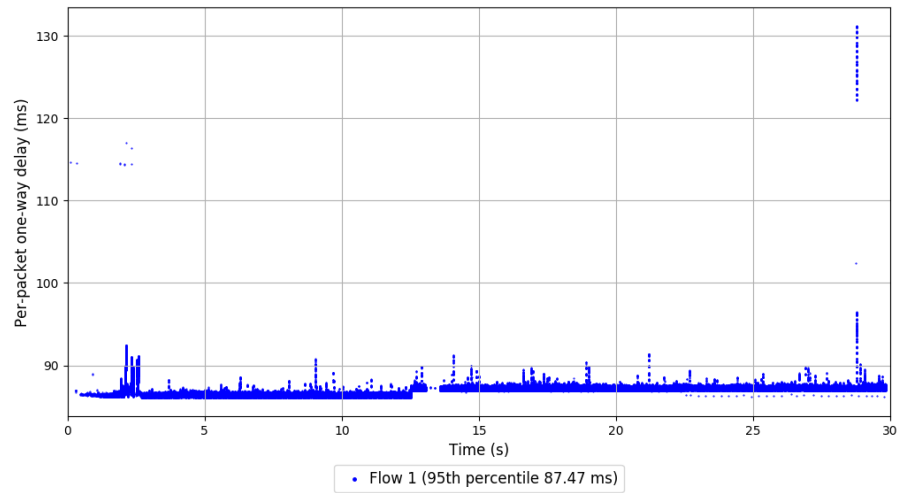
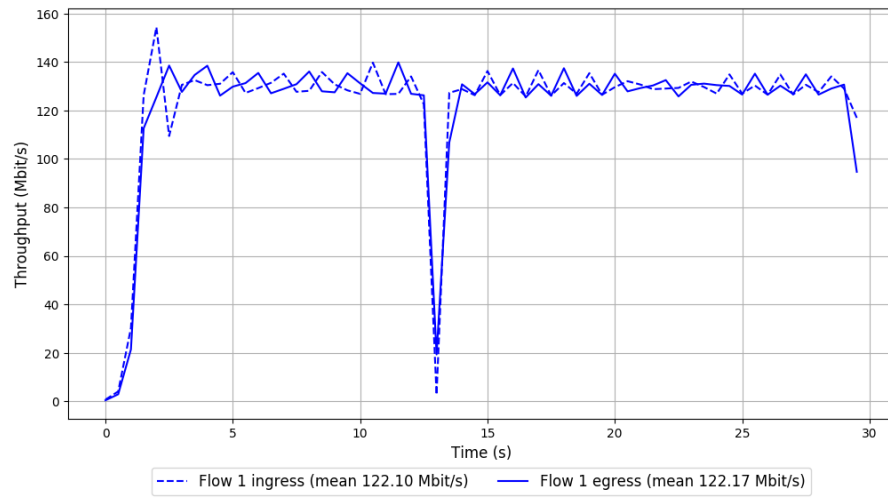
-- Flow 1:

Average throughput: 122.17 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 0.64%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-02-27 08:01:56

End at: 2018-02-27 08:02:26

Below is generated by plot.py at 2018-02-27 11:19:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.74 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.81%

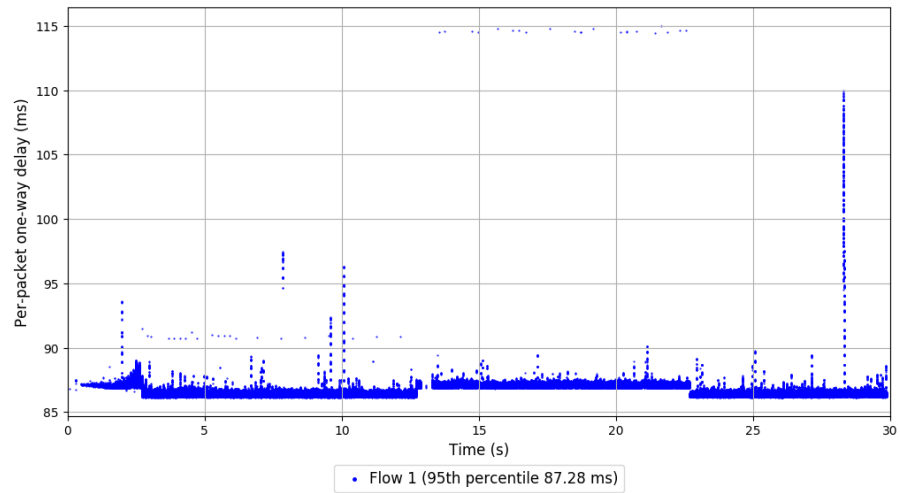
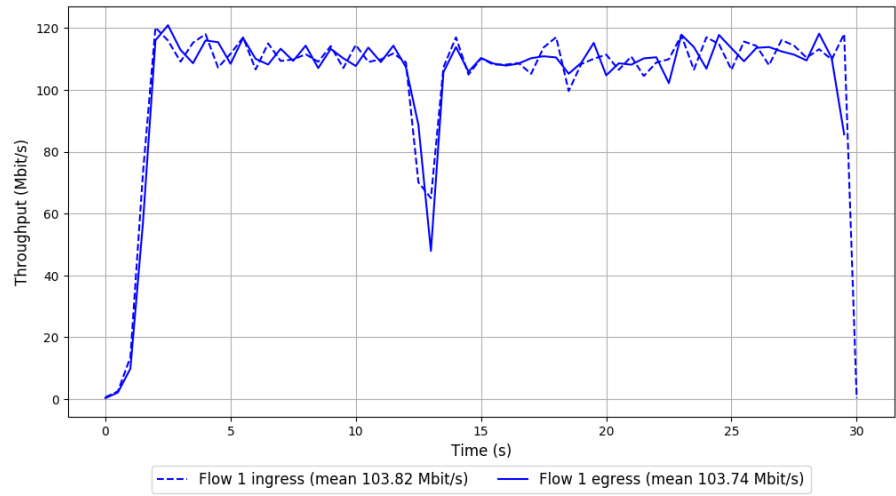
-- Flow 1:

Average throughput: 103.74 Mbit/s

95th percentile per-packet one-way delay: 87.278 ms

Loss rate: 0.81%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-02-27 08:16:59

End at: 2018-02-27 08:17:29

Below is generated by plot.py at 2018-02-27 11:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.80 Mbit/s

95th percentile per-packet one-way delay: 87.812 ms

Loss rate: 0.67%

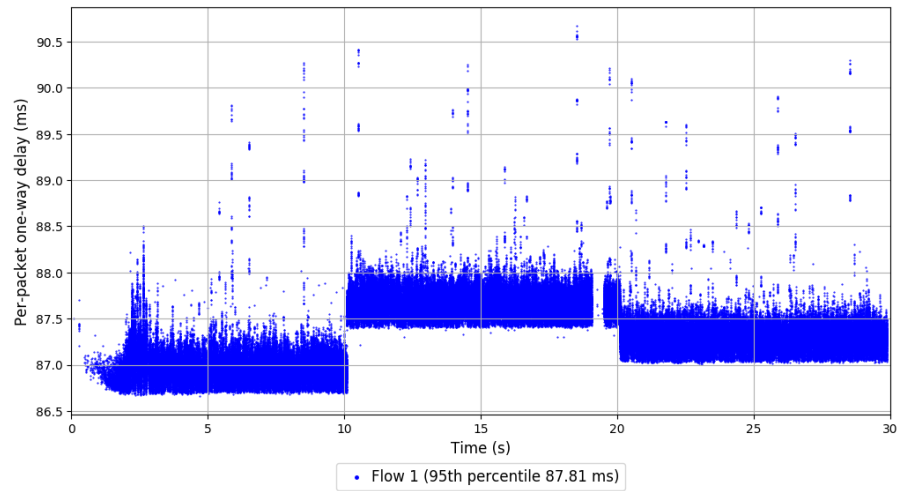
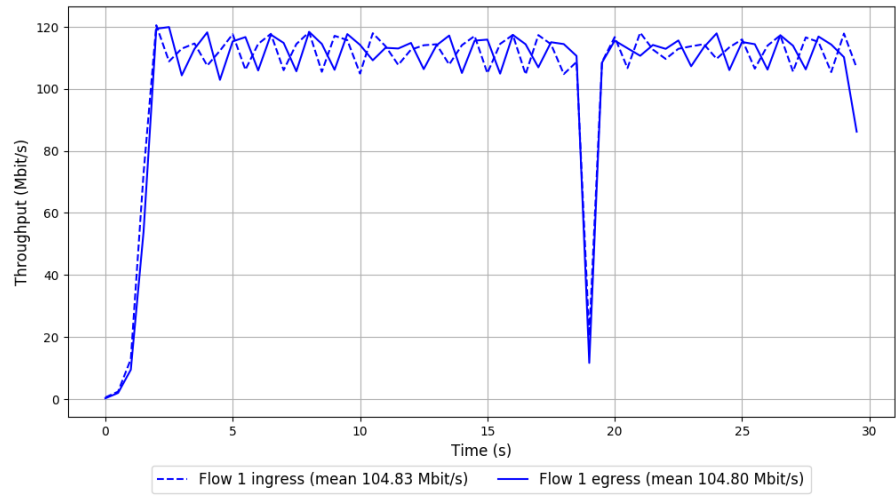
-- Flow 1:

Average throughput: 104.80 Mbit/s

95th percentile per-packet one-way delay: 87.812 ms

Loss rate: 0.67%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-02-27 08:32:19

End at: 2018-02-27 08:32:49

Below is generated by plot.py at 2018-02-27 11:21:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.79 Mbit/s

95th percentile per-packet one-way delay: 88.512 ms

Loss rate: 0.71%

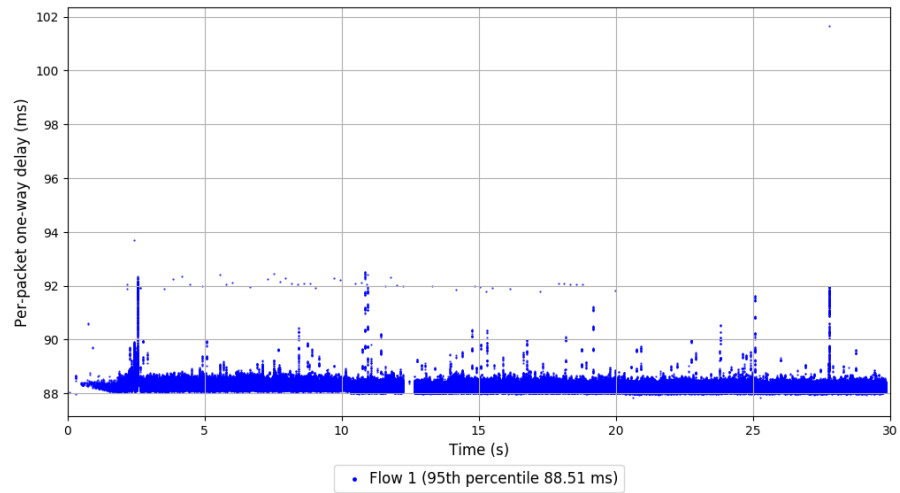
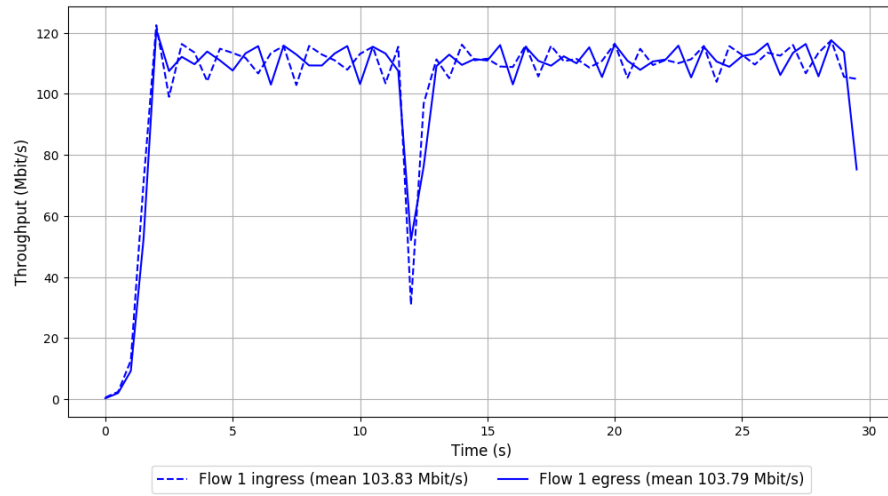
-- Flow 1:

Average throughput: 103.79 Mbit/s

95th percentile per-packet one-way delay: 88.512 ms

Loss rate: 0.71%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-02-27 06:13:01

End at: 2018-02-27 06:13:31

Below is generated by plot.py at 2018-02-27 11:21:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.22 Mbit/s

95th percentile per-packet one-way delay: 99.711 ms

Loss rate: 0.64%

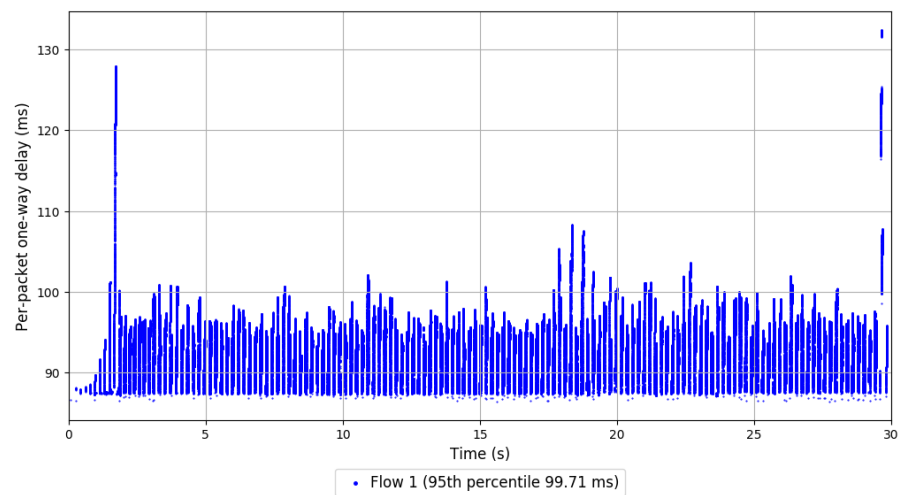
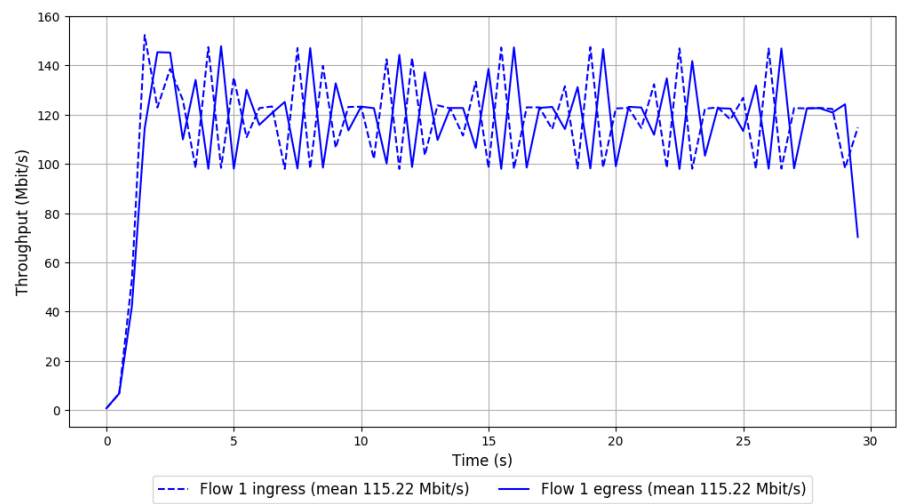
-- Flow 1:

Average throughput: 115.22 Mbit/s

95th percentile per-packet one-way delay: 99.711 ms

Loss rate: 0.64%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-02-27 06:28:12

End at: 2018-02-27 06:28:42

Below is generated by plot.py at 2018-02-27 11:21:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 124.896 ms

Loss rate: 0.73%

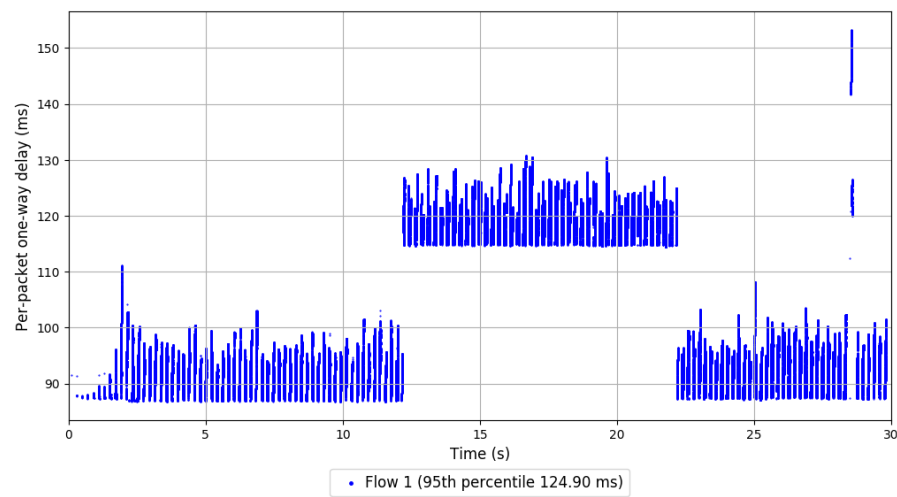
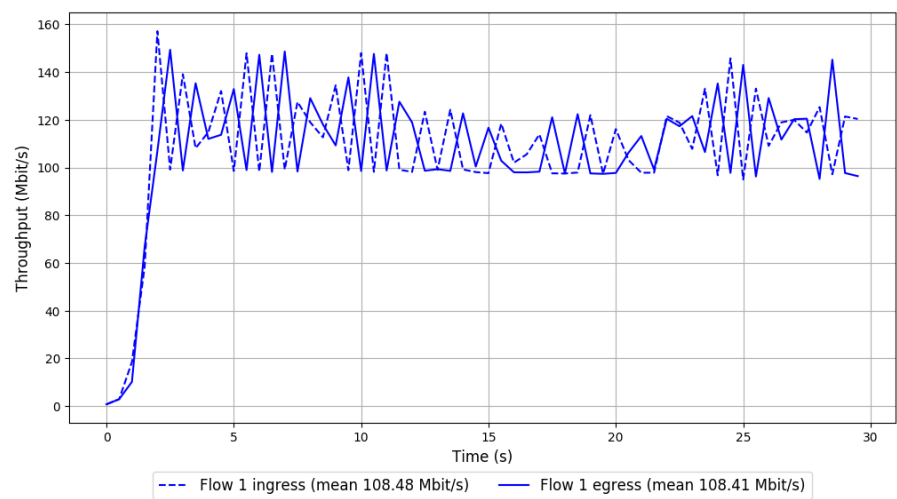
-- Flow 1:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 124.896 ms

Loss rate: 0.73%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-02-27 06:43:43

End at: 2018-02-27 06:44:13

Below is generated by plot.py at 2018-02-27 11:21:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.10 Mbit/s

95th percentile per-packet one-way delay: 99.274 ms

Loss rate: 1.10%

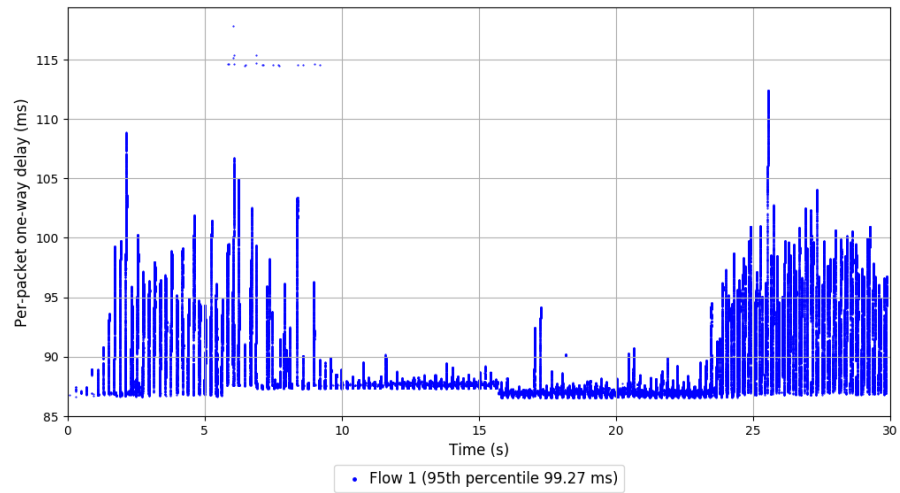
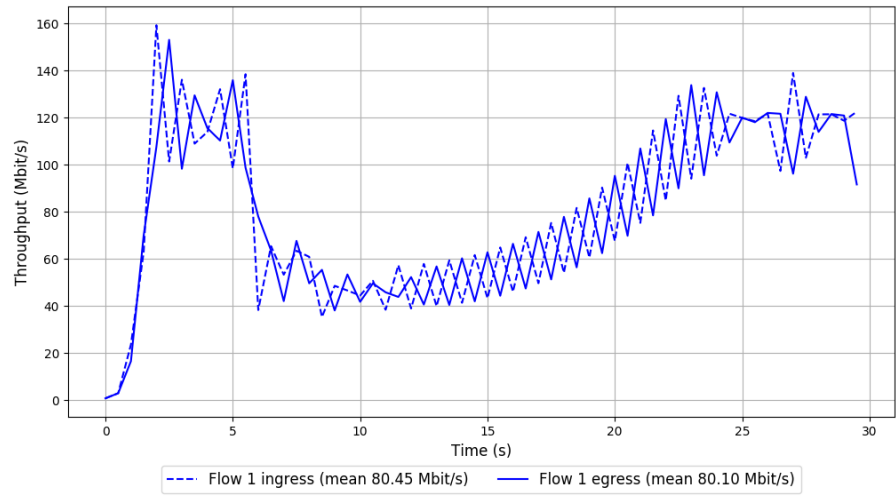
-- Flow 1:

Average throughput: 80.10 Mbit/s

95th percentile per-packet one-way delay: 99.274 ms

Loss rate: 1.10%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-02-27 06:58:44

End at: 2018-02-27 06:59:14

Below is generated by plot.py at 2018-02-27 11:21:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 97.628 ms

Loss rate: 0.44%

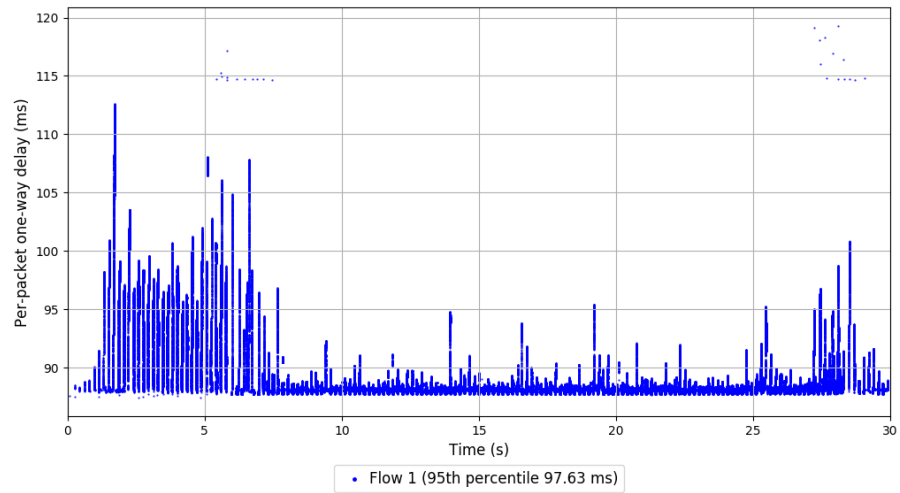
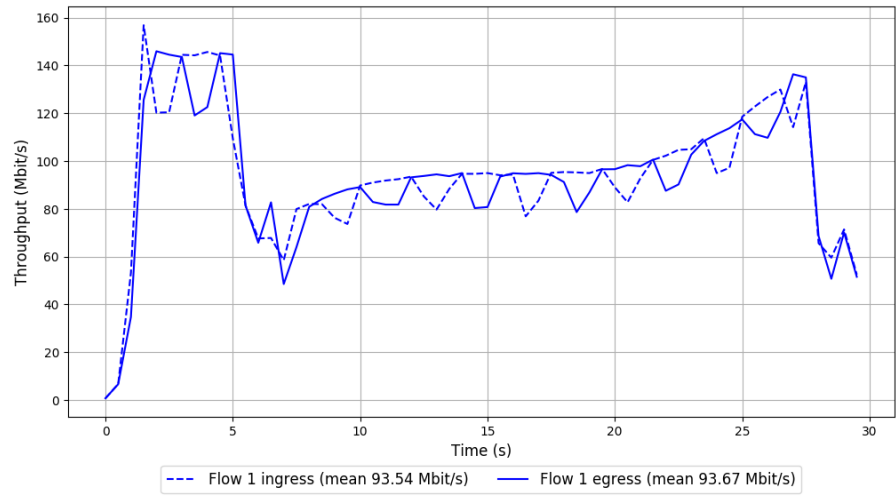
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 97.628 ms

Loss rate: 0.44%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-02-27 07:13:59

End at: 2018-02-27 07:14:29

Below is generated by plot.py at 2018-02-27 11:22:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.53 Mbit/s

95th percentile per-packet one-way delay: 99.511 ms

Loss rate: 0.36%

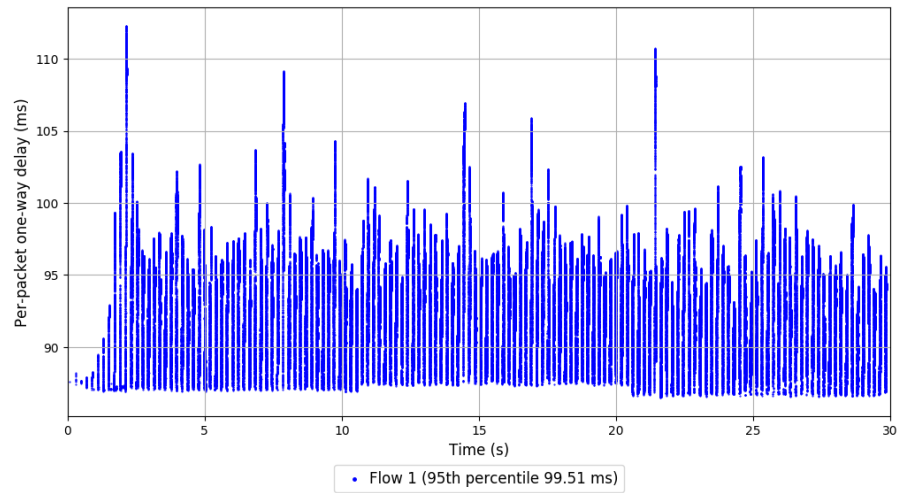
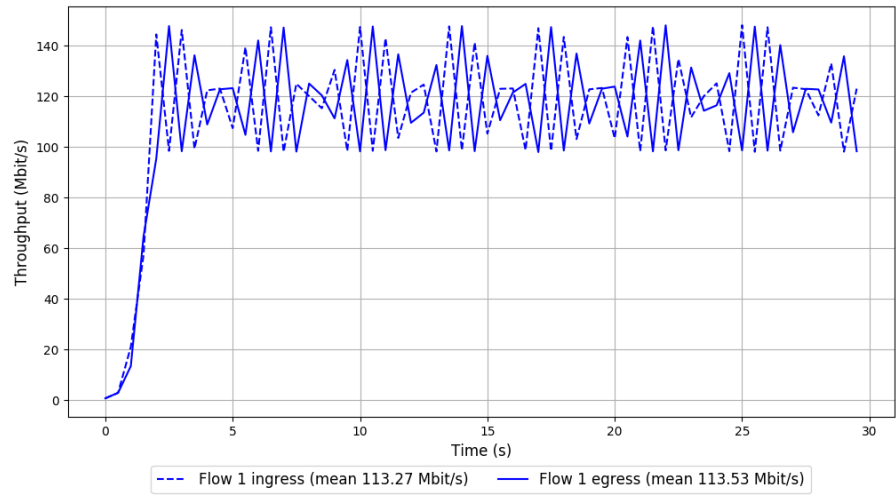
-- Flow 1:

Average throughput: 113.53 Mbit/s

95th percentile per-packet one-way delay: 99.511 ms

Loss rate: 0.36%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-02-27 07:29:18

End at: 2018-02-27 07:29:48

Below is generated by plot.py at 2018-02-27 11:22:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.18 Mbit/s

95th percentile per-packet one-way delay: 101.200 ms

Loss rate: 0.71%

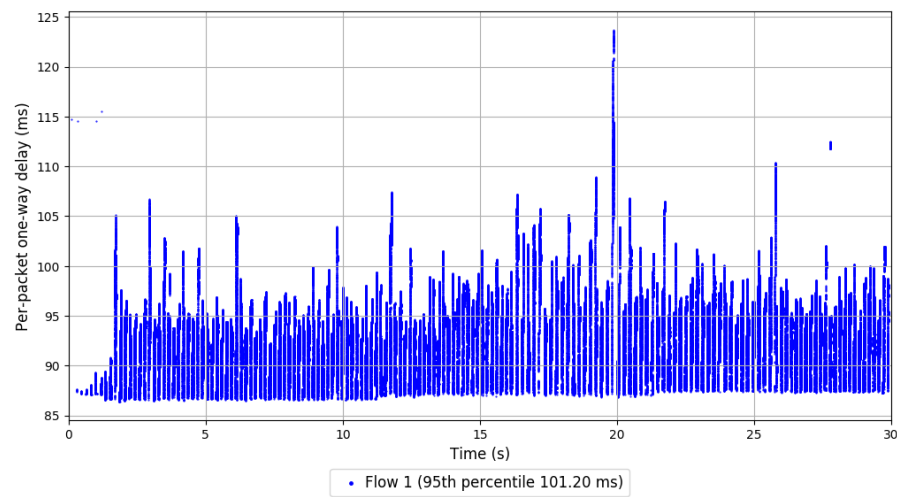
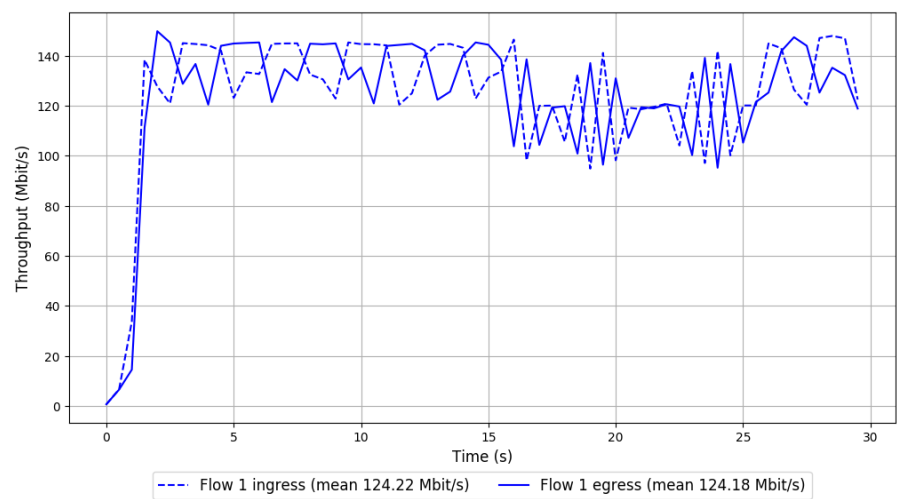
-- Flow 1:

Average throughput: 124.18 Mbit/s

95th percentile per-packet one-way delay: 101.200 ms

Loss rate: 0.71%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-02-27 07:45:04

End at: 2018-02-27 07:45:34

Below is generated by plot.py at 2018-02-27 11:24:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 114.00 Mbit/s

95th percentile per-packet one-way delay: 98.569 ms

Loss rate: 0.60%

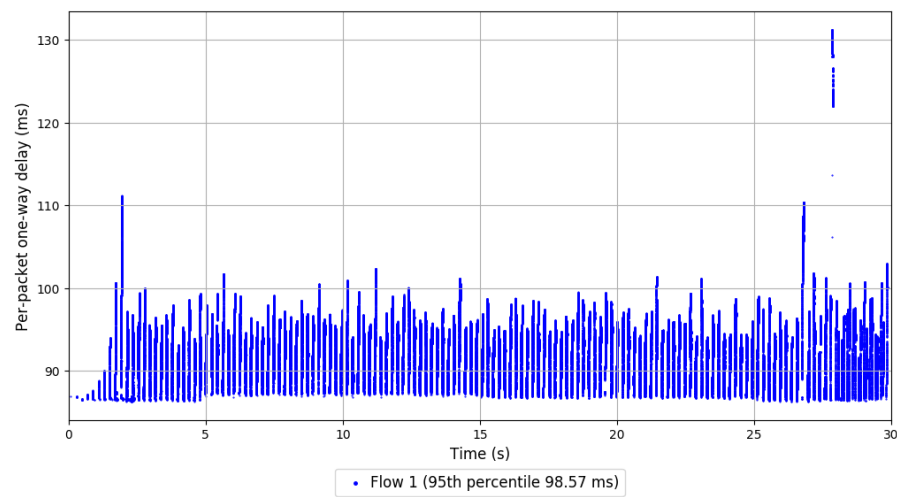
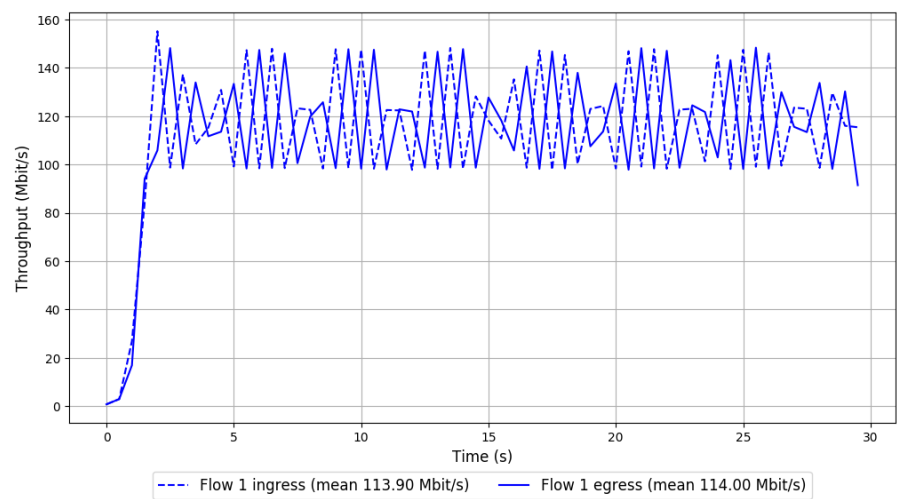
-- Flow 1:

Average throughput: 114.00 Mbit/s

95th percentile per-packet one-way delay: 98.569 ms

Loss rate: 0.60%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-02-27 08:00:11

End at: 2018-02-27 08:00:41

Below is generated by plot.py at 2018-02-27 11:24:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 110.19 Mbit/s

95th percentile per-packet one-way delay: 98.205 ms

Loss rate: 0.48%

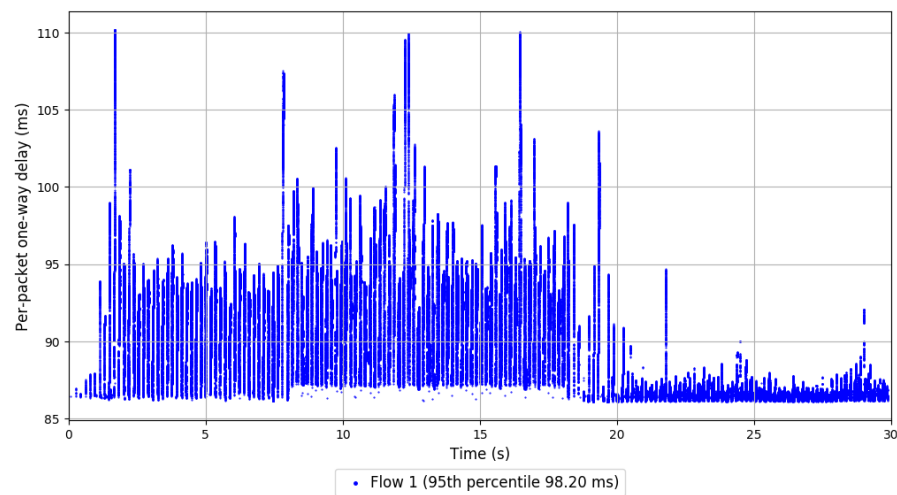
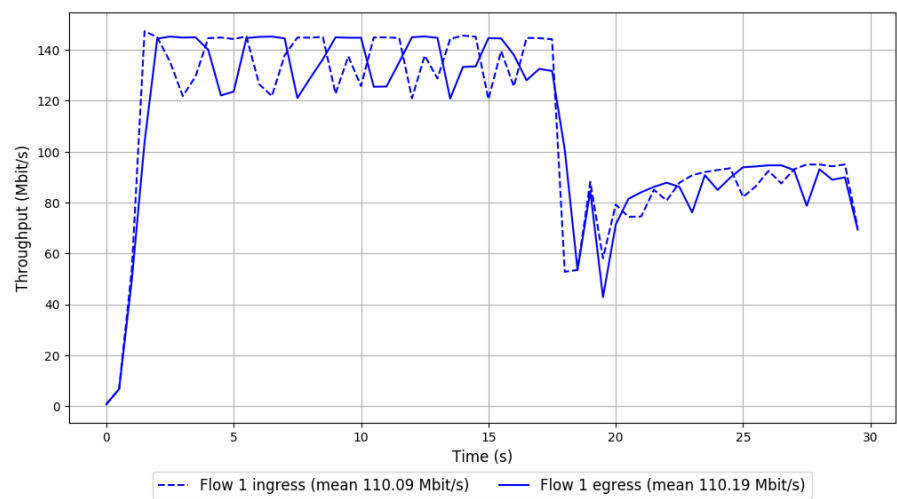
-- Flow 1:

Average throughput: 110.19 Mbit/s

95th percentile per-packet one-way delay: 98.205 ms

Loss rate: 0.48%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-02-27 08:15:17

End at: 2018-02-27 08:15:47

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 101.063 ms

Loss rate: 0.74%

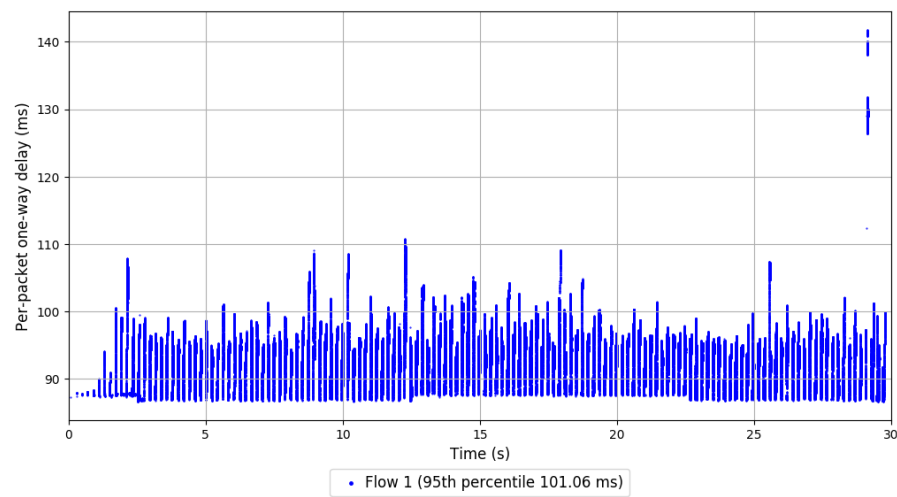
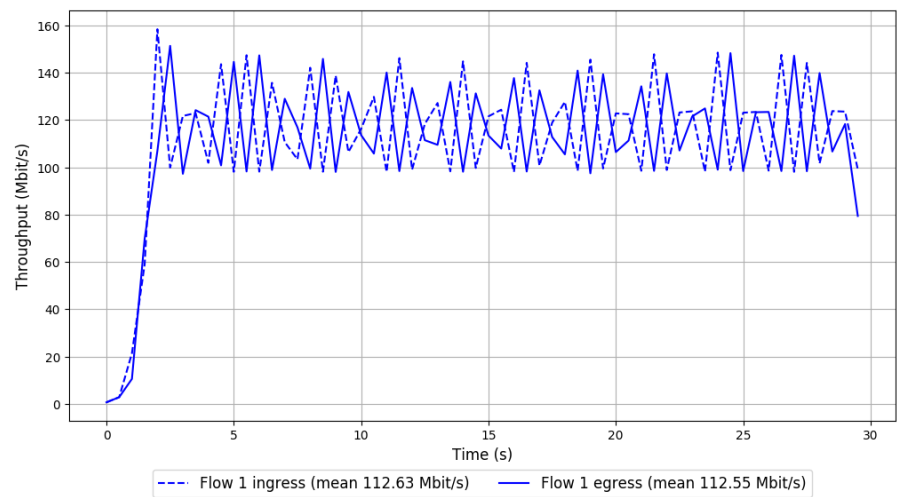
-- Flow 1:

Average throughput: 112.55 Mbit/s

95th percentile per-packet one-way delay: 101.063 ms

Loss rate: 0.74%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-02-27 08:30:38

End at: 2018-02-27 08:31:08

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 115.522 ms

Loss rate: 1.61%

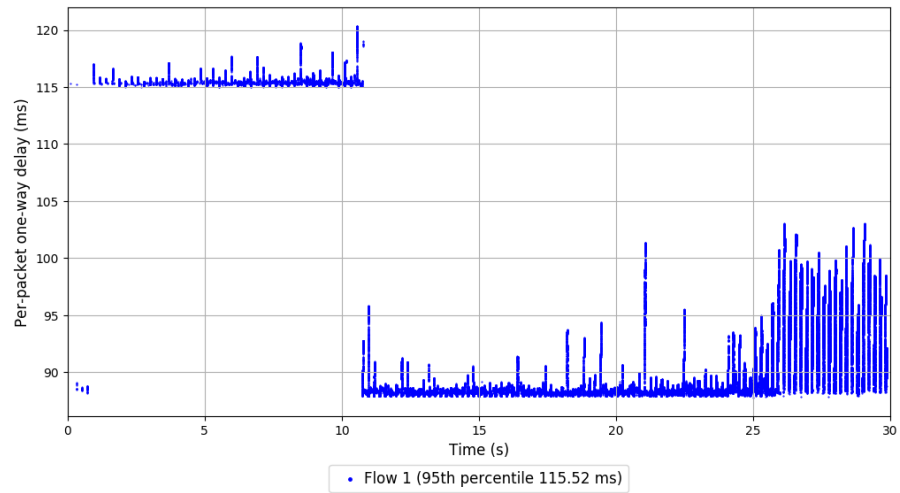
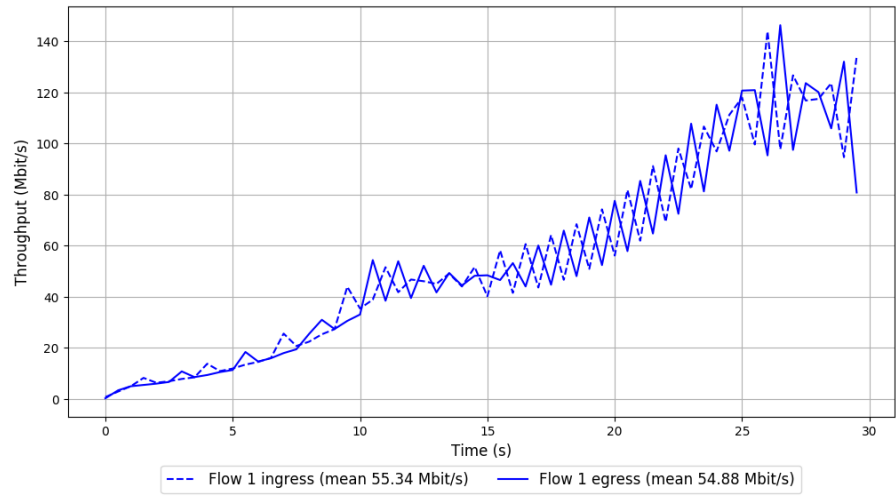
-- Flow 1:

Average throughput: 54.88 Mbit/s

95th percentile per-packet one-way delay: 115.522 ms

Loss rate: 1.61%

Run 10: Report of TCP Cubic — Data Link

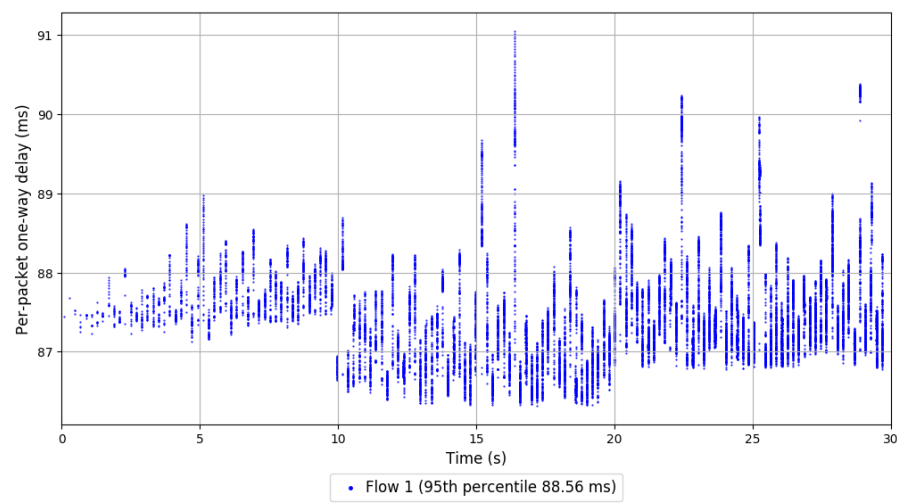
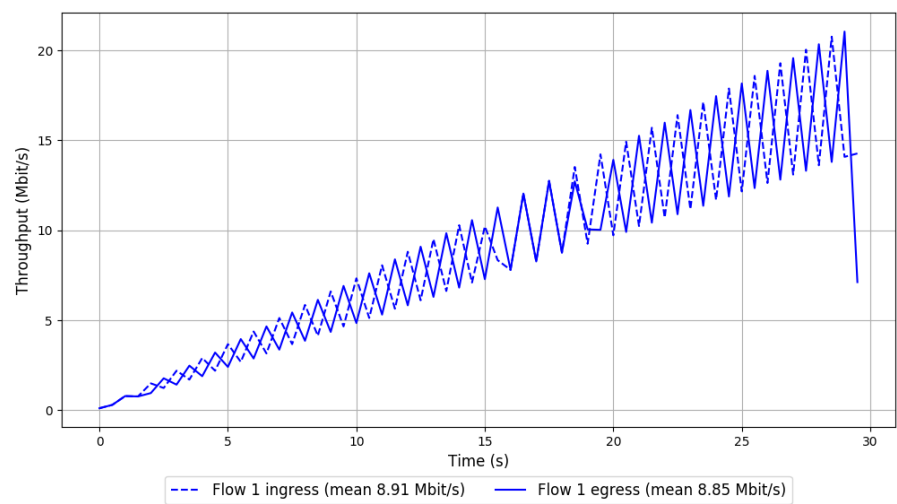


```
Run 1: Statistics of LEDBAT

Start at: 2018-02-27 06:18:25
End at: 2018-02-27 06:18:55

# Below is generated by plot.py at 2018-02-27 11:24:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 88.559 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 88.559 ms
Loss rate: 1.35%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-02-27 06:33:49

End at: 2018-02-27 06:34:19

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 114.819 ms

Loss rate: 1.46%

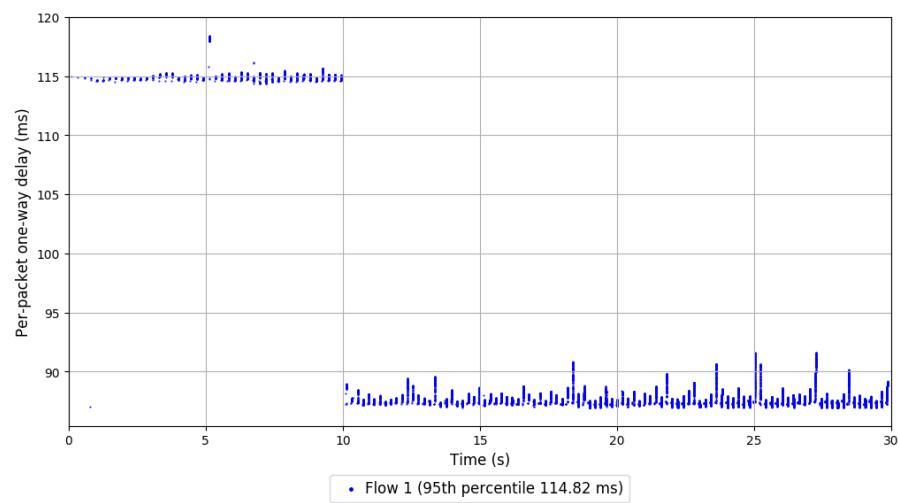
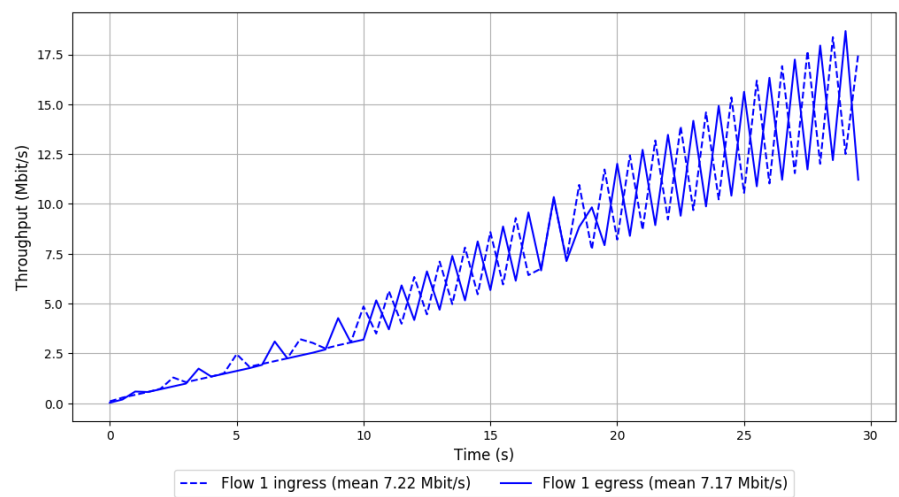
-- Flow 1:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 114.819 ms

Loss rate: 1.46%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-02-27 06:49:07

End at: 2018-02-27 06:49:37

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 89.157 ms

Loss rate: 1.25%

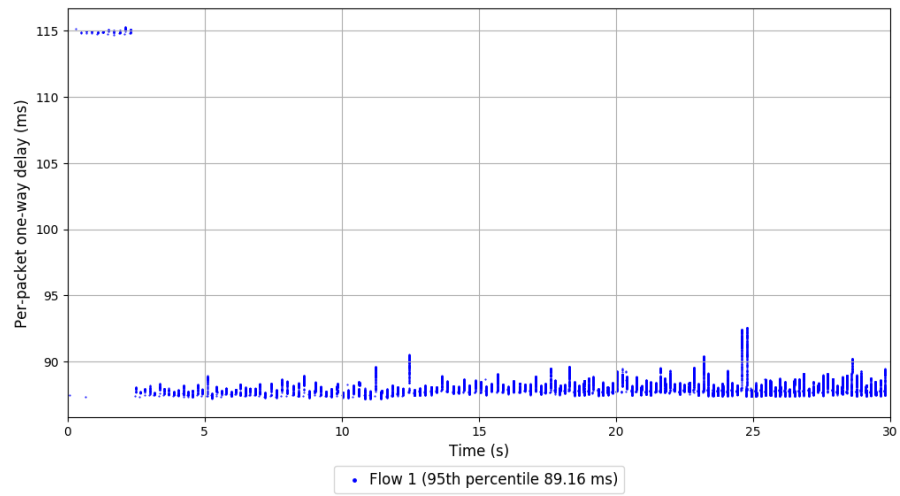
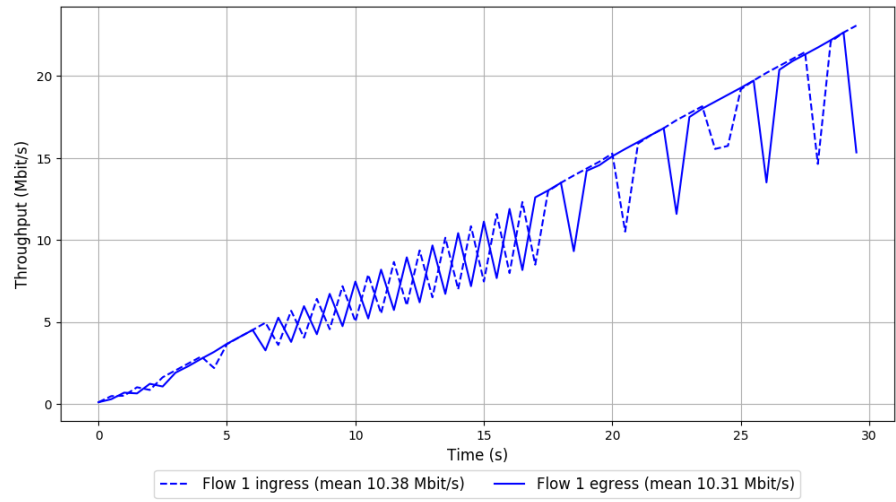
-- Flow 1:

Average throughput: 10.31 Mbit/s

95th percentile per-packet one-way delay: 89.157 ms

Loss rate: 1.25%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-02-27 07:04:07

End at: 2018-02-27 07:04:37

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 89.567 ms

Loss rate: 1.29%

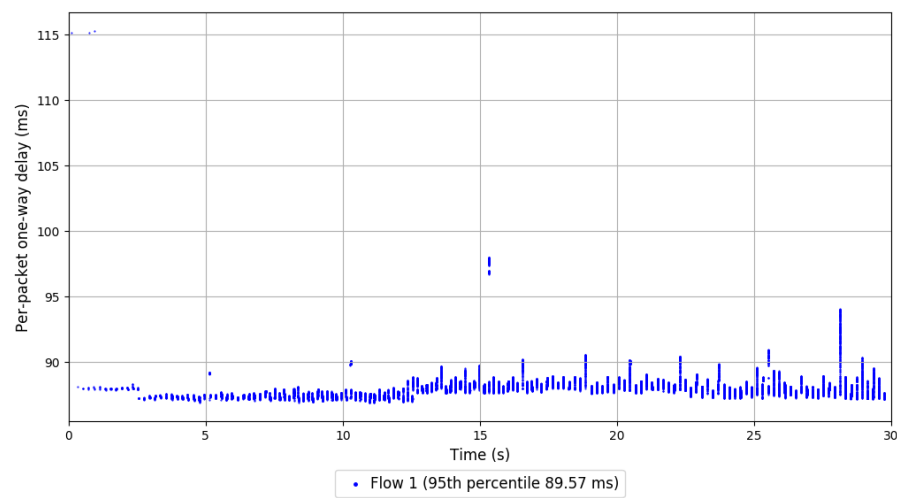
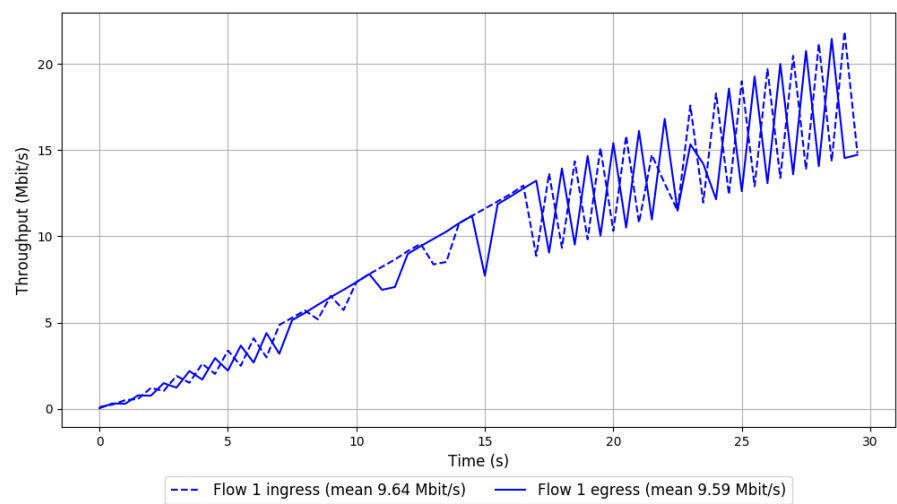
-- Flow 1:

Average throughput: 9.59 Mbit/s

95th percentile per-packet one-way delay: 89.567 ms

Loss rate: 1.29%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-02-27 07:19:29

End at: 2018-02-27 07:19:59

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 88.819 ms

Loss rate: 1.26%

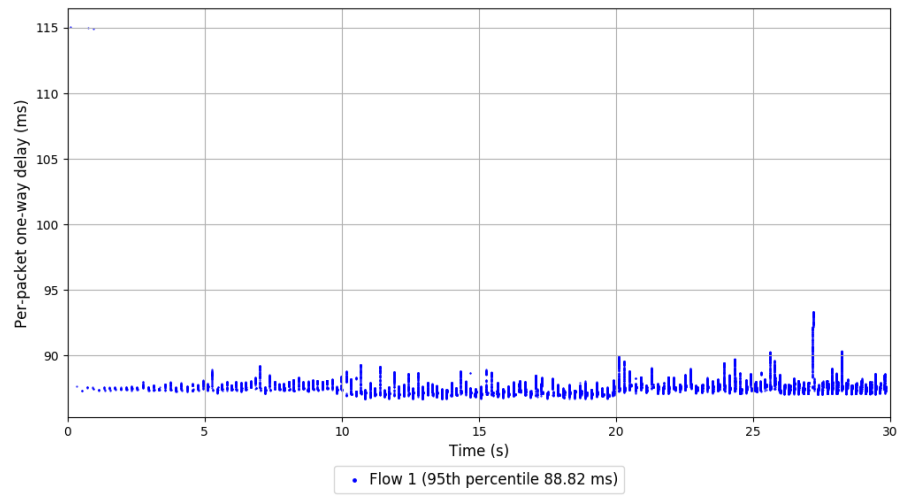
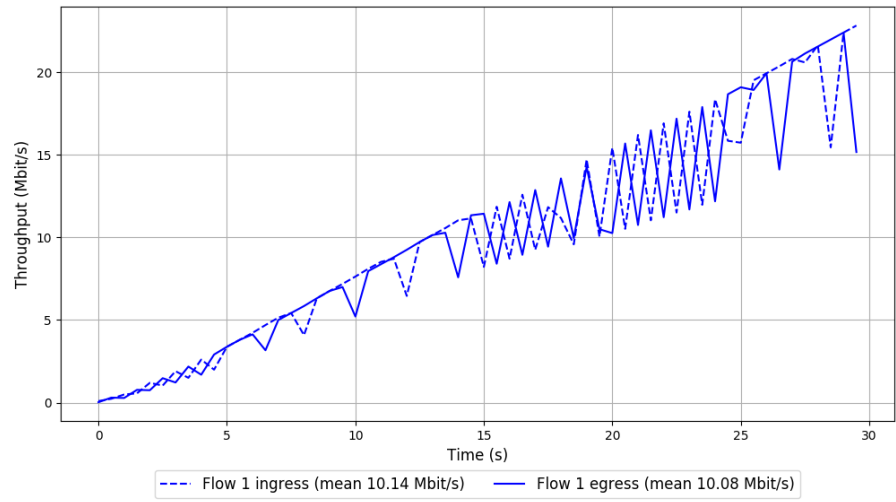
-- Flow 1:

Average throughput: 10.08 Mbit/s

95th percentile per-packet one-way delay: 88.819 ms

Loss rate: 1.26%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-02-27 07:34:46

End at: 2018-02-27 07:35:16

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 88.583 ms

Loss rate: 1.28%

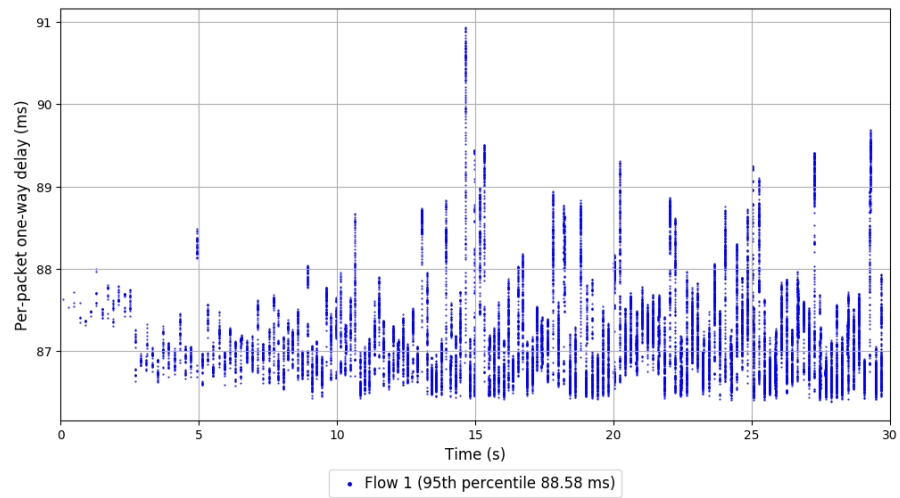
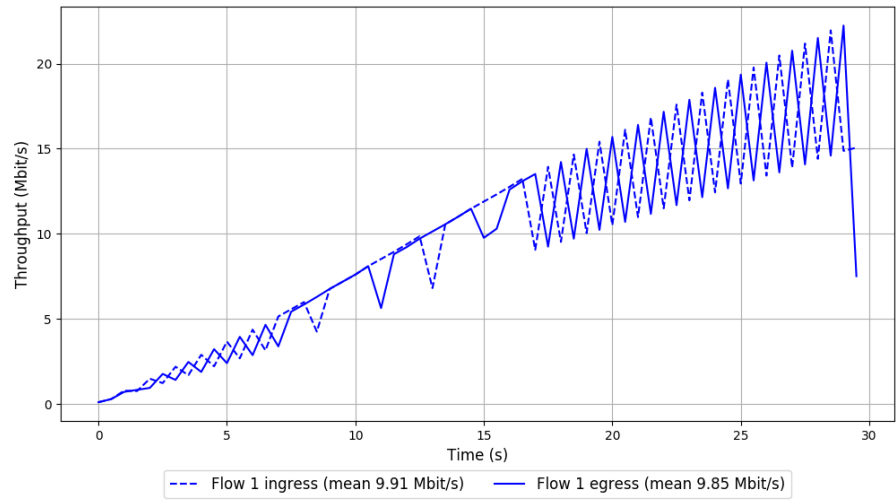
-- Flow 1:

Average throughput: 9.85 Mbit/s

95th percentile per-packet one-way delay: 88.583 ms

Loss rate: 1.28%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-02-27 07:50:24

End at: 2018-02-27 07:50:54

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 88.398 ms

Loss rate: 1.36%

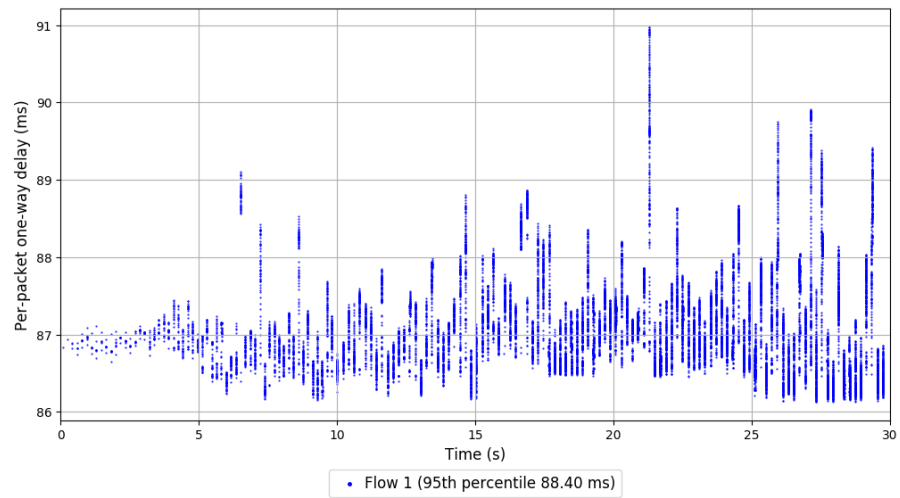
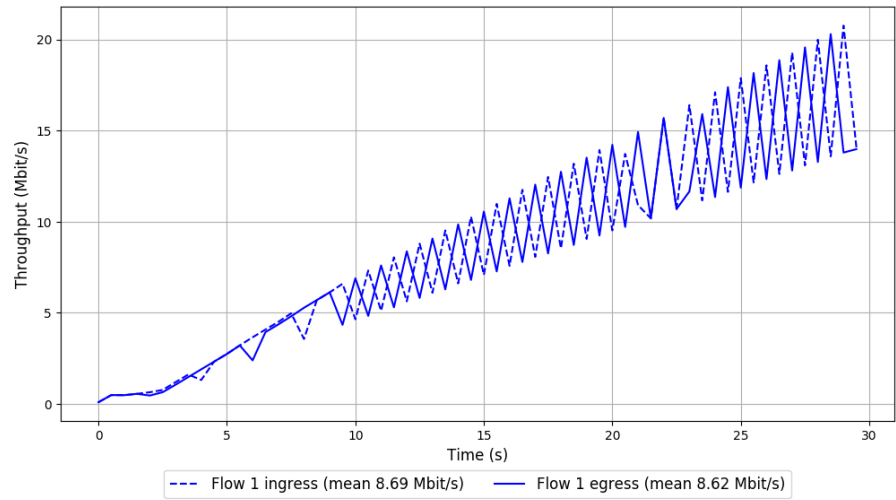
-- Flow 1:

Average throughput: 8.62 Mbit/s

95th percentile per-packet one-way delay: 88.398 ms

Loss rate: 1.36%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-02-27 08:05:32

End at: 2018-02-27 08:06:02

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 88.799 ms

Loss rate: 1.35%

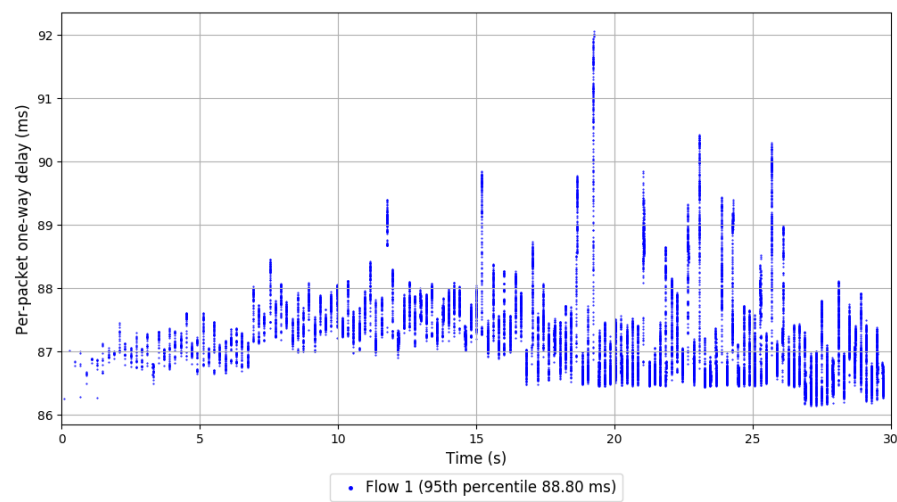
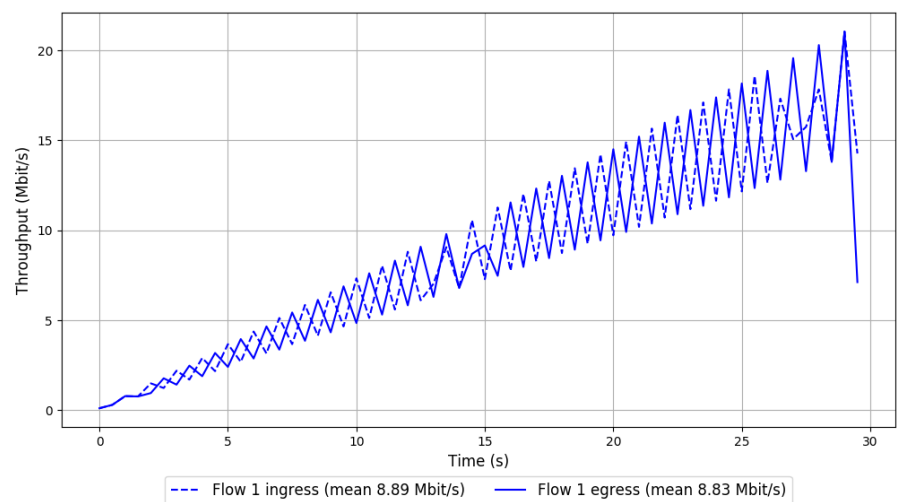
-- Flow 1:

Average throughput: 8.83 Mbit/s

95th percentile per-packet one-way delay: 88.799 ms

Loss rate: 1.35%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-02-27 08:20:37

End at: 2018-02-27 08:21:07

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 89.736 ms

Loss rate: 1.42%

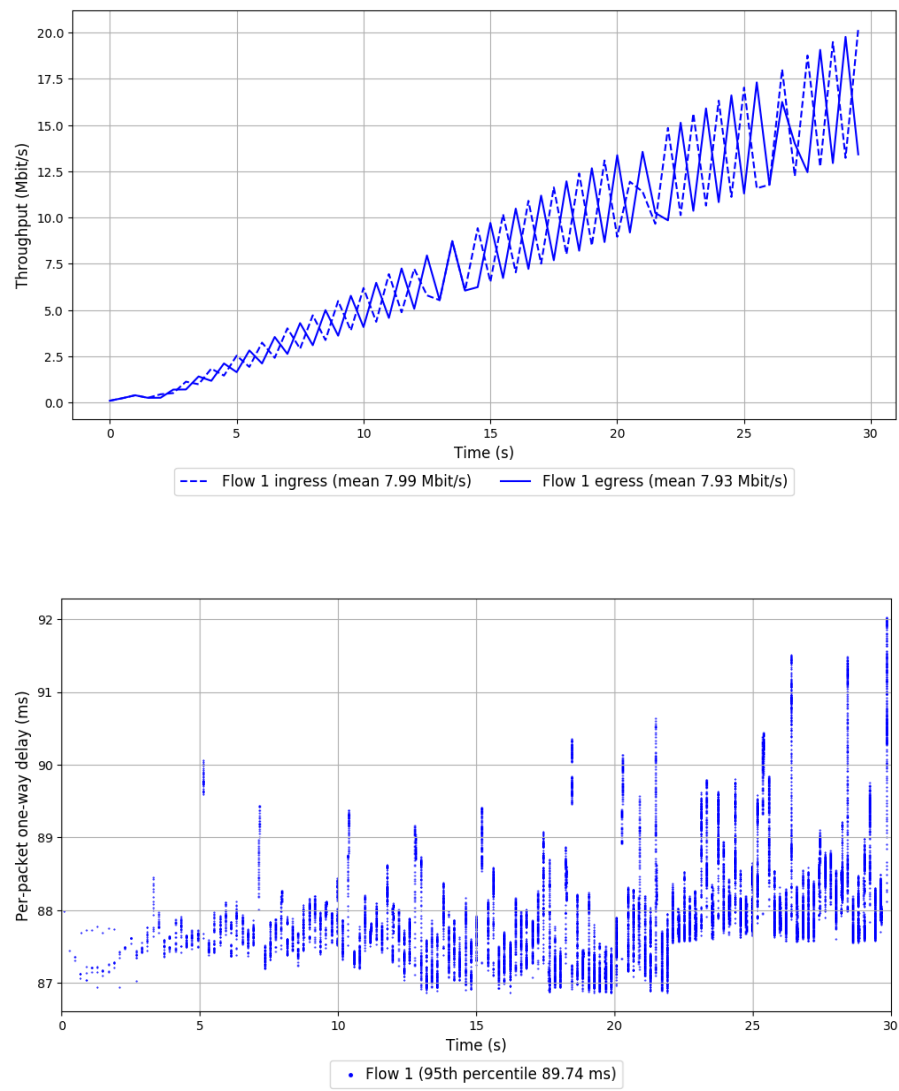
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 89.736 ms

Loss rate: 1.42%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-02-27 08:35:50

End at: 2018-02-27 08:36:20

Below is generated by plot.py at 2018-02-27 11:24:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 89.814 ms

Loss rate: 1.17%

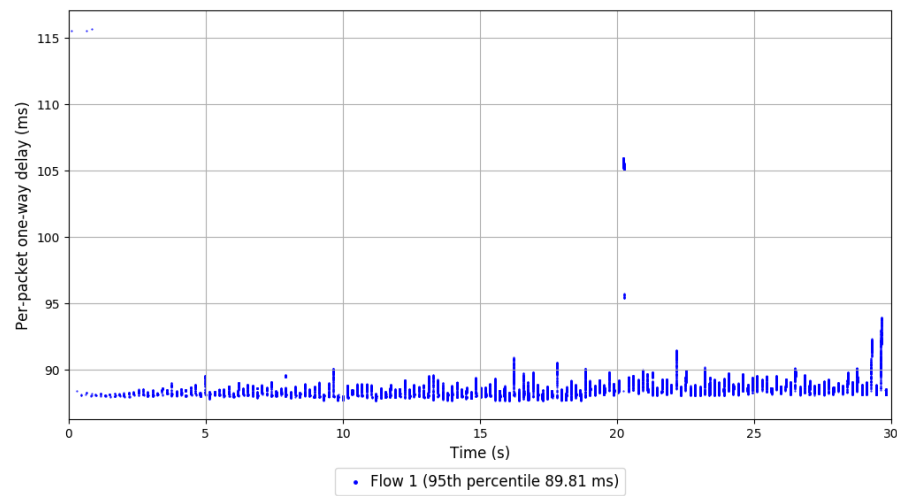
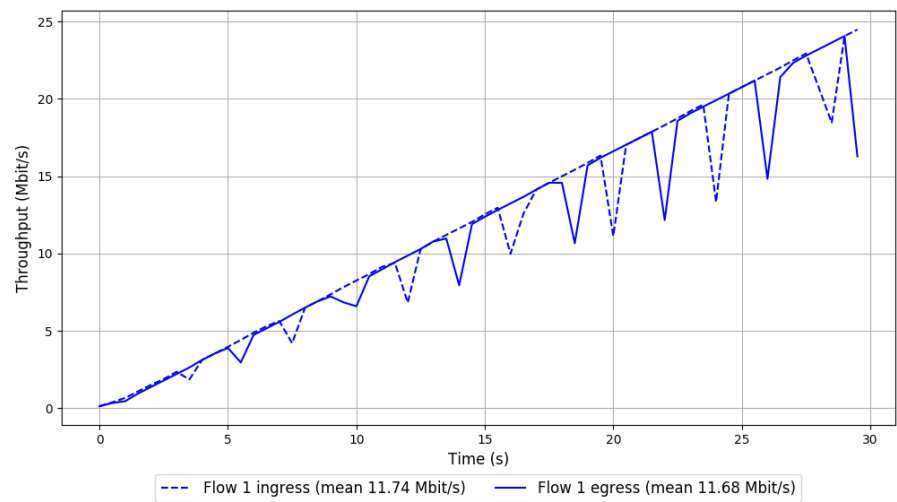
-- Flow 1:

Average throughput: 11.68 Mbit/s

95th percentile per-packet one-way delay: 89.814 ms

Loss rate: 1.17%

Run 10: Report of LEDBAT — Data Link

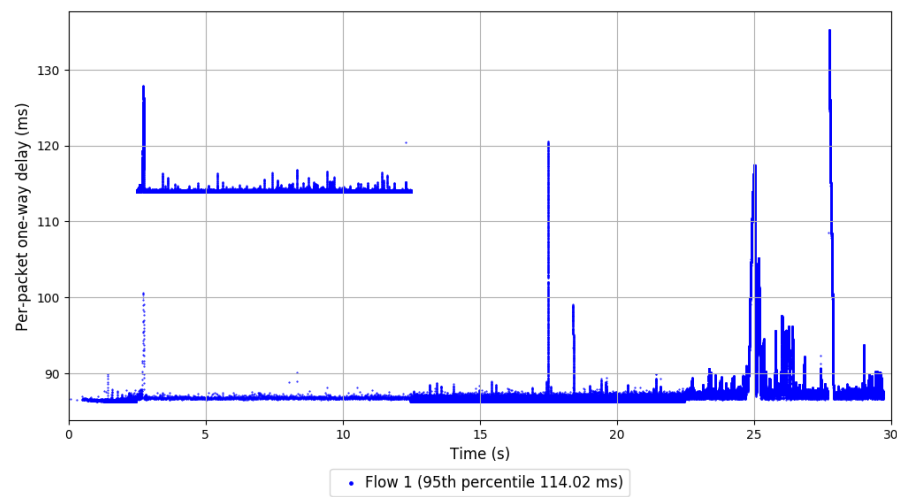
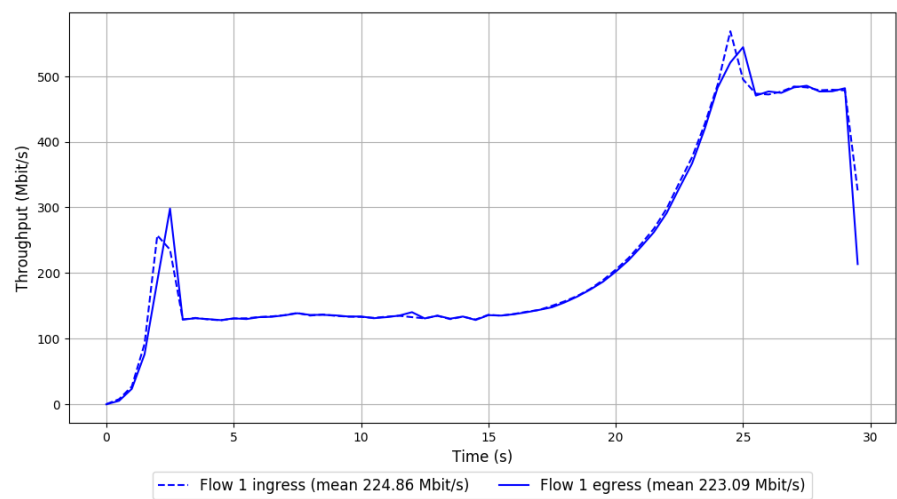


```
Run 1: Statistics of PCC

Start at: 2018-02-27 06:07:12
End at: 2018-02-27 06:07:42

# Below is generated by plot.py at 2018-02-27 11:27:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 223.09 Mbit/s
95th percentile per-packet one-way delay: 114.021 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 223.09 Mbit/s
95th percentile per-packet one-way delay: 114.021 ms
Loss rate: 1.45%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-02-27 06:22:20

End at: 2018-02-27 06:22:50

Below is generated by plot.py at 2018-02-27 11:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.51 Mbit/s

95th percentile per-packet one-way delay: 159.244 ms

Loss rate: 2.18%

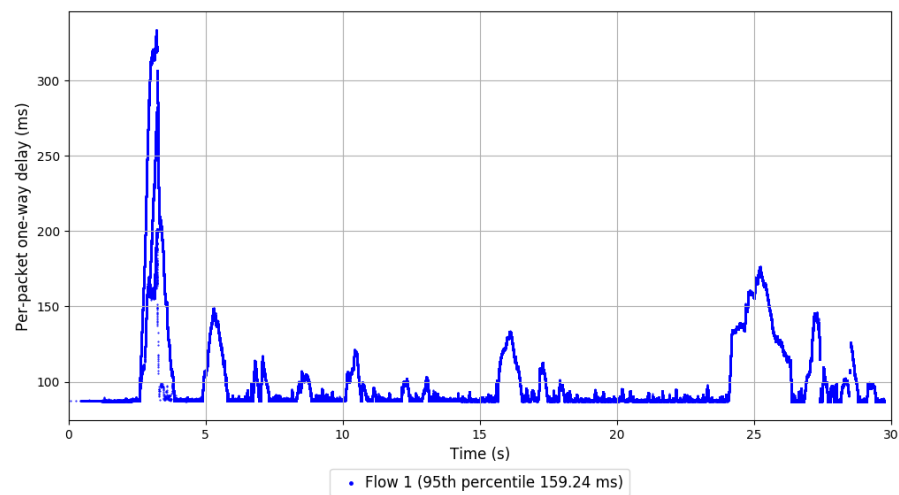
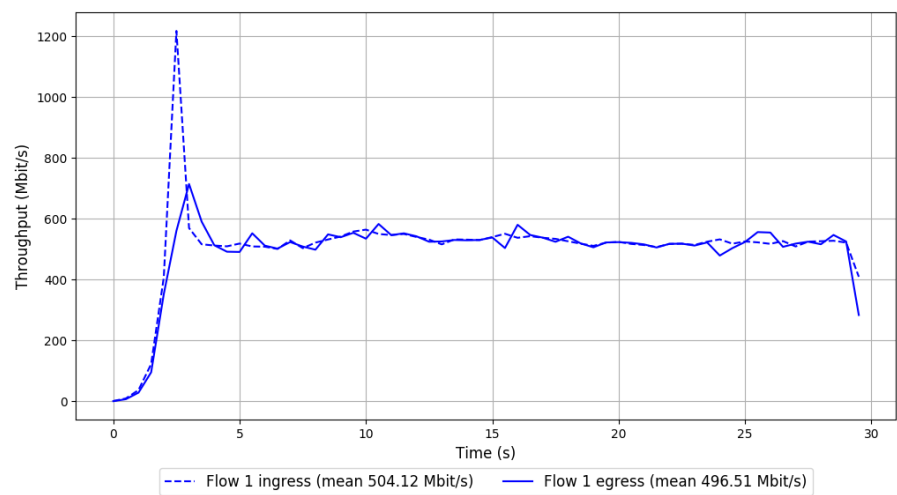
-- Flow 1:

Average throughput: 496.51 Mbit/s

95th percentile per-packet one-way delay: 159.244 ms

Loss rate: 2.18%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-02-27 06:37:41

End at: 2018-02-27 06:38:11

Below is generated by plot.py at 2018-02-27 11:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.03 Mbit/s

95th percentile per-packet one-way delay: 165.189 ms

Loss rate: 3.08%

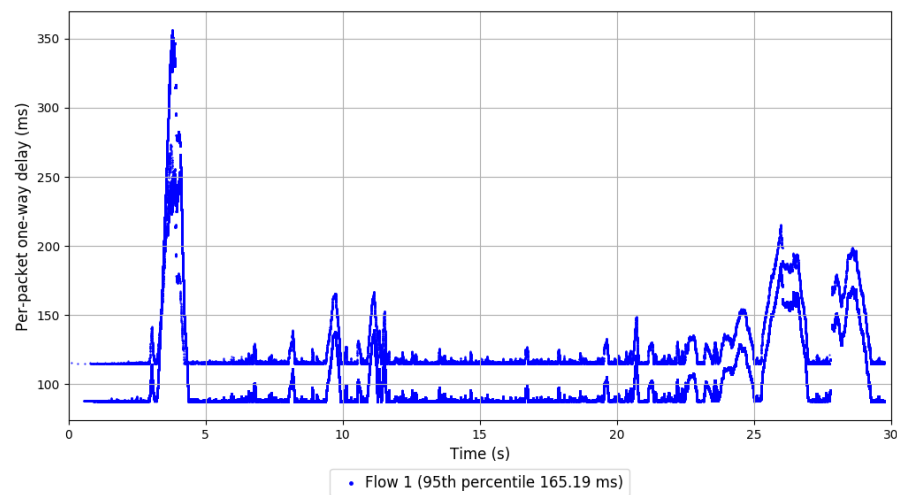
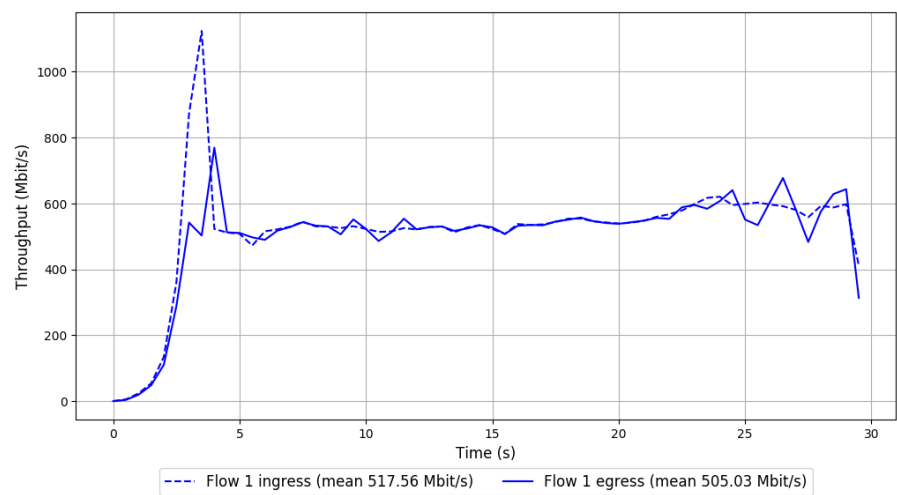
-- Flow 1:

Average throughput: 505.03 Mbit/s

95th percentile per-packet one-way delay: 165.189 ms

Loss rate: 3.08%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-02-27 06:52:55

End at: 2018-02-27 06:53:25

Below is generated by plot.py at 2018-02-27 11:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.17 Mbit/s

95th percentile per-packet one-way delay: 182.138 ms

Loss rate: 3.14%

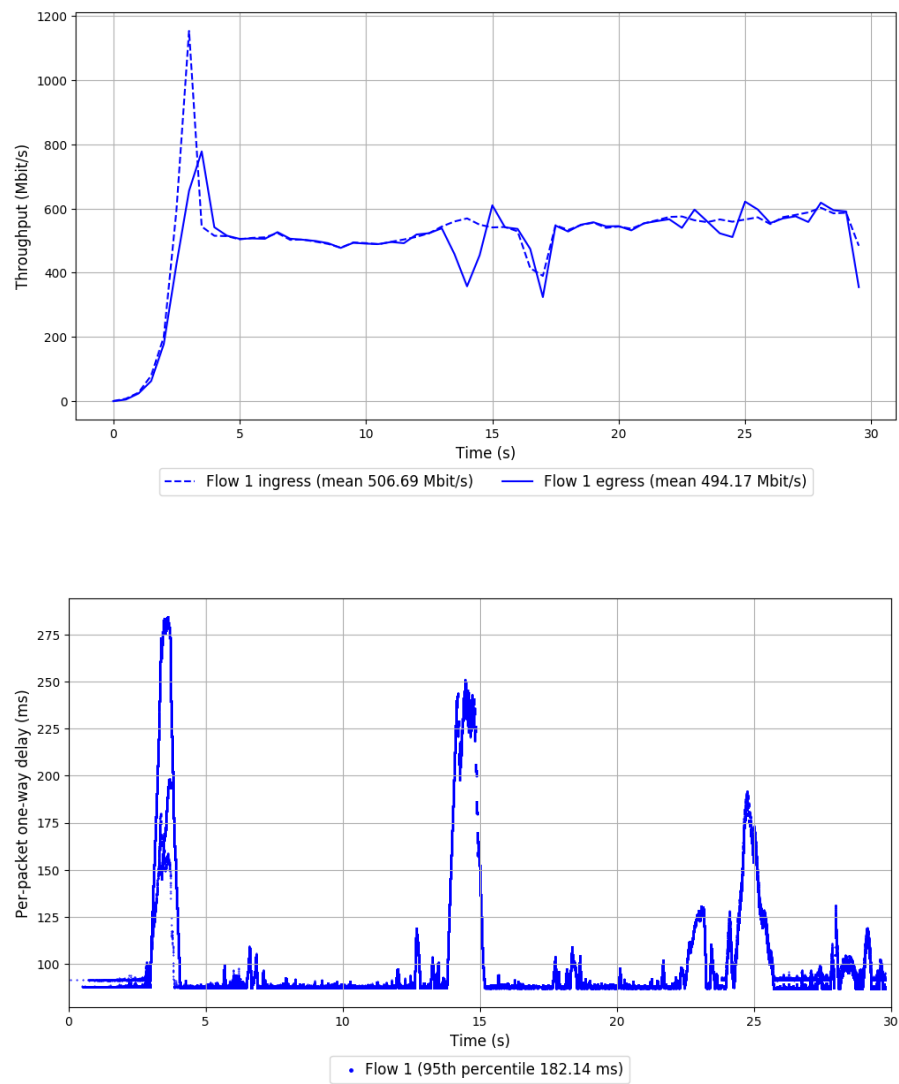
-- Flow 1:

Average throughput: 494.17 Mbit/s

95th percentile per-packet one-way delay: 182.138 ms

Loss rate: 3.14%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-02-27 07:08:00

End at: 2018-02-27 07:08:30

Below is generated by plot.py at 2018-02-27 11:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.97 Mbit/s

95th percentile per-packet one-way delay: 154.478 ms

Loss rate: 0.96%

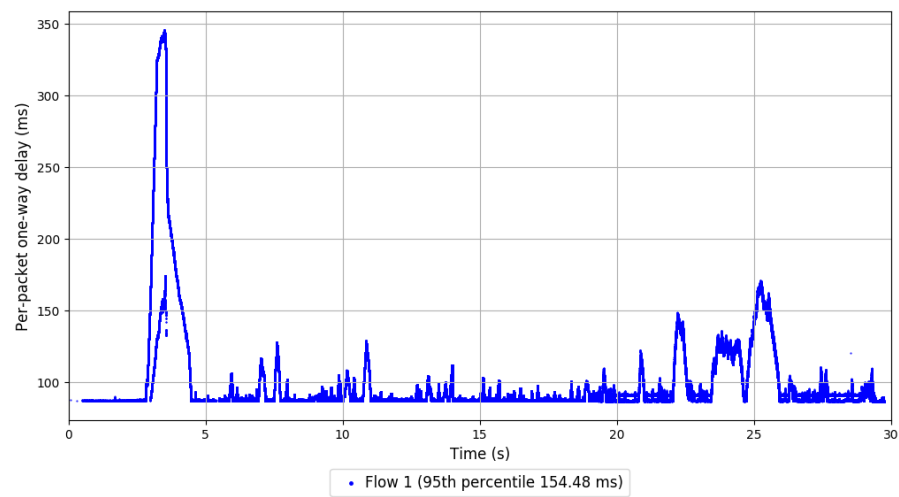
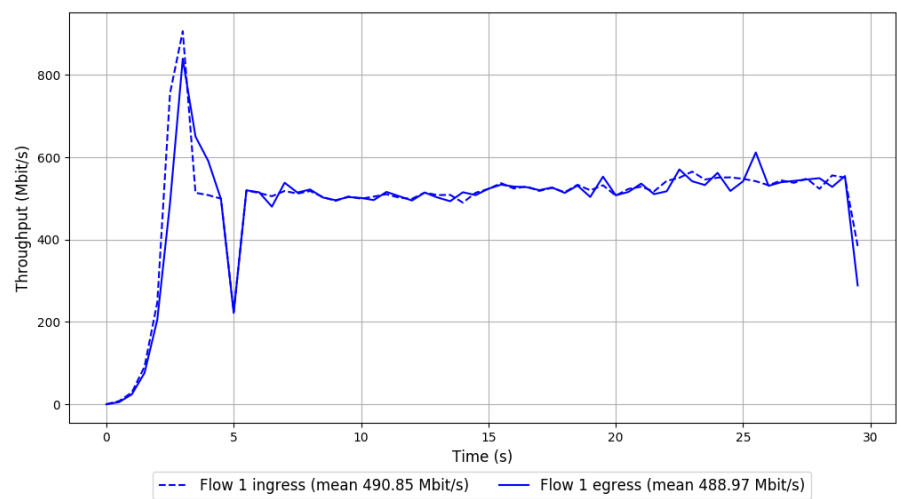
-- Flow 1:

Average throughput: 488.97 Mbit/s

95th percentile per-packet one-way delay: 154.478 ms

Loss rate: 0.96%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-02-27 07:23:20

End at: 2018-02-27 07:23:50

Below is generated by plot.py at 2018-02-27 11:36:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.00 Mbit/s

95th percentile per-packet one-way delay: 151.023 ms

Loss rate: 2.41%

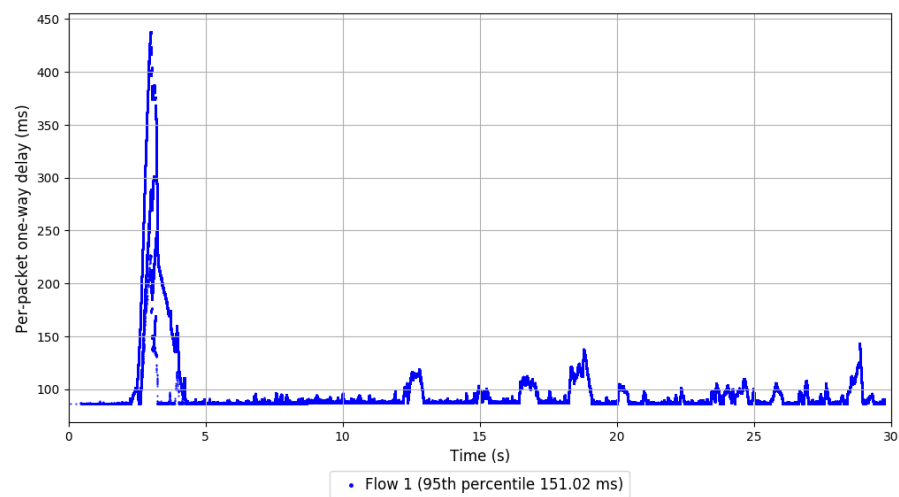
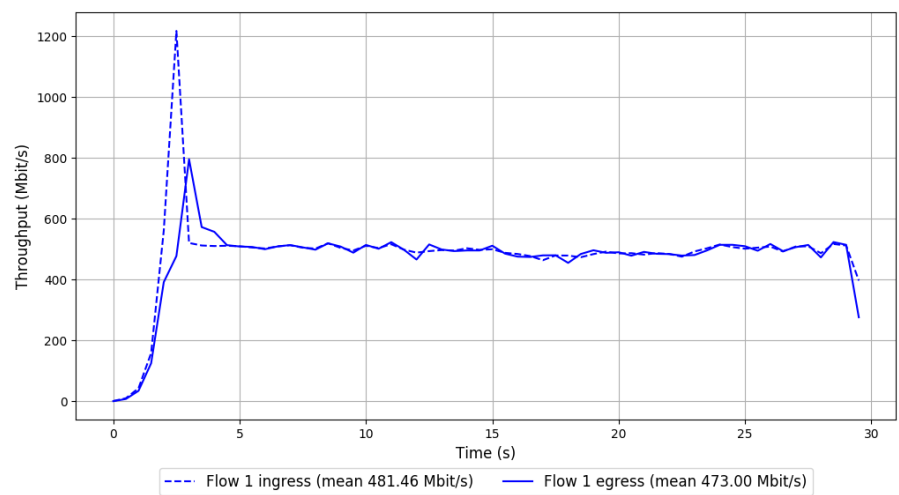
-- Flow 1:

Average throughput: 473.00 Mbit/s

95th percentile per-packet one-way delay: 151.023 ms

Loss rate: 2.41%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-02-27 07:38:44

End at: 2018-02-27 07:39:14

Below is generated by plot.py at 2018-02-27 11:37:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.98 Mbit/s

95th percentile per-packet one-way delay: 195.112 ms

Loss rate: 4.83%

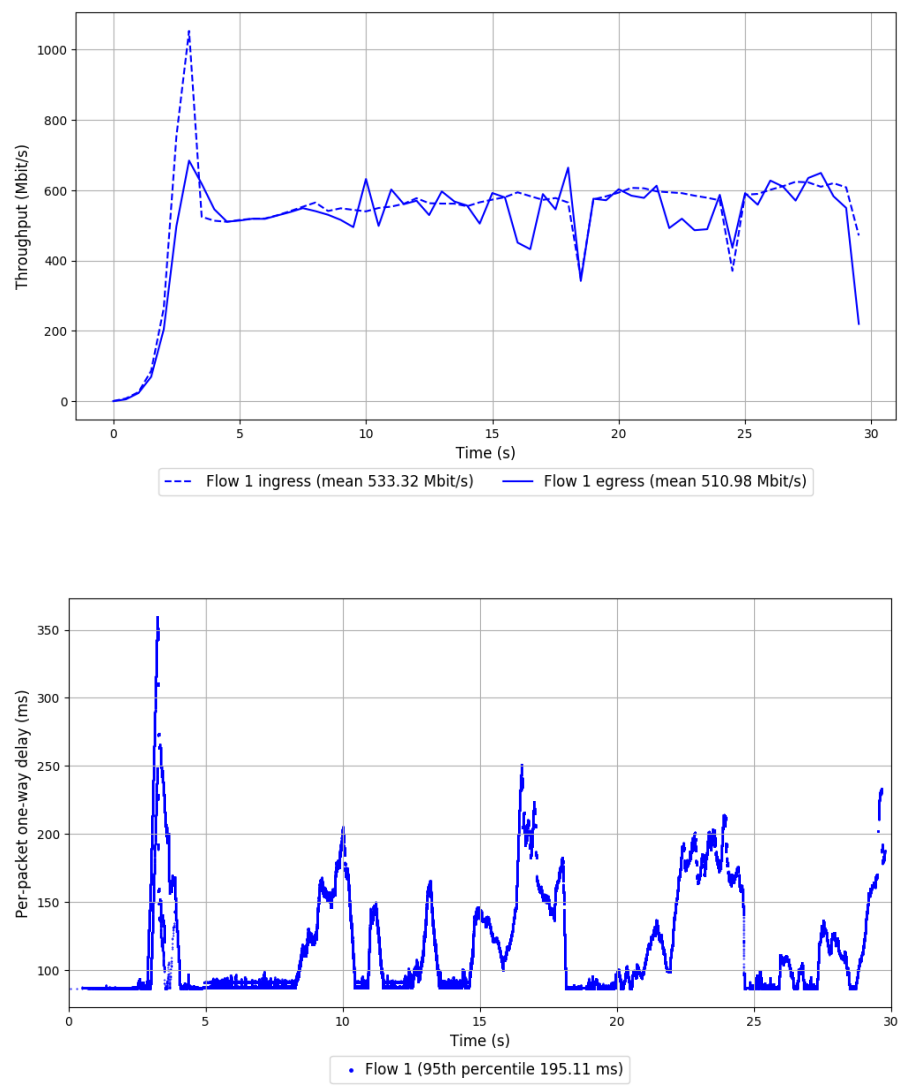
-- Flow 1:

Average throughput: 510.98 Mbit/s

95th percentile per-packet one-way delay: 195.112 ms

Loss rate: 4.83%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-02-27 07:54:19

End at: 2018-02-27 07:54:49

Below is generated by plot.py at 2018-02-27 11:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.47 Mbit/s

95th percentile per-packet one-way delay: 171.903 ms

Loss rate: 1.98%

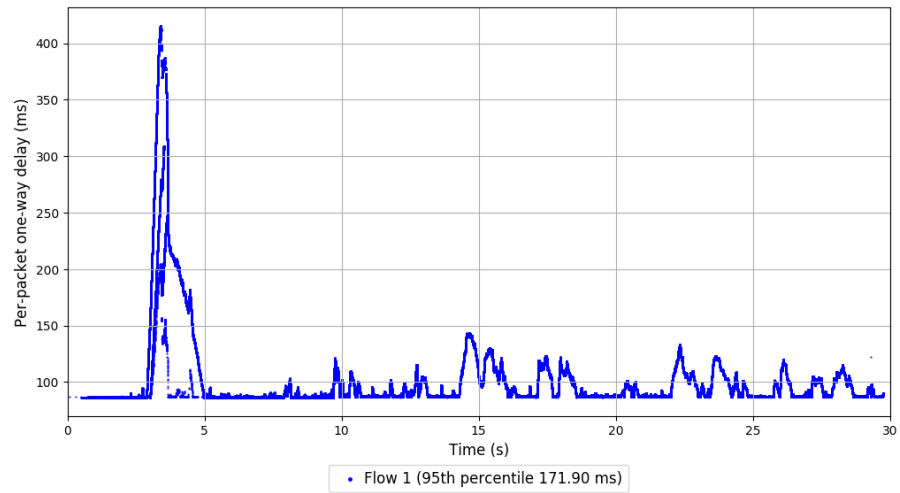
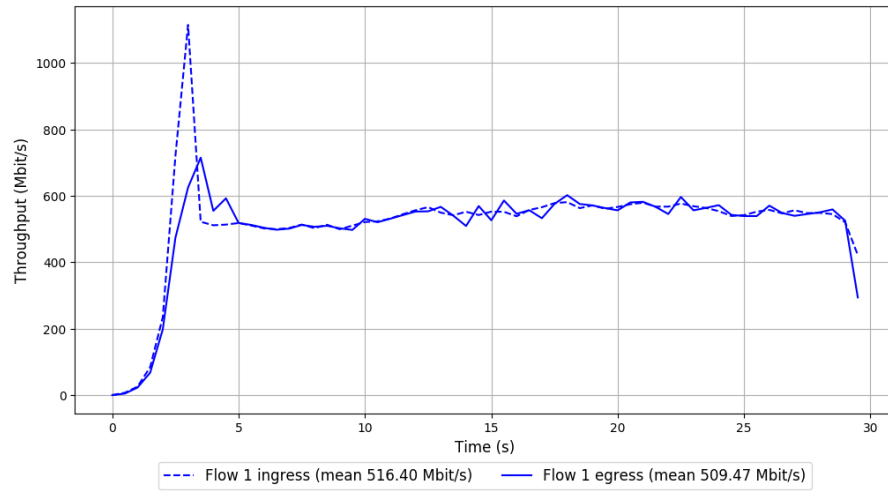
-- Flow 1:

Average throughput: 509.47 Mbit/s

95th percentile per-packet one-way delay: 171.903 ms

Loss rate: 1.98%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-02-27 08:09:29

End at: 2018-02-27 08:09:59

Below is generated by plot.py at 2018-02-27 11:41:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.27 Mbit/s

95th percentile per-packet one-way delay: 128.836 ms

Loss rate: 1.46%

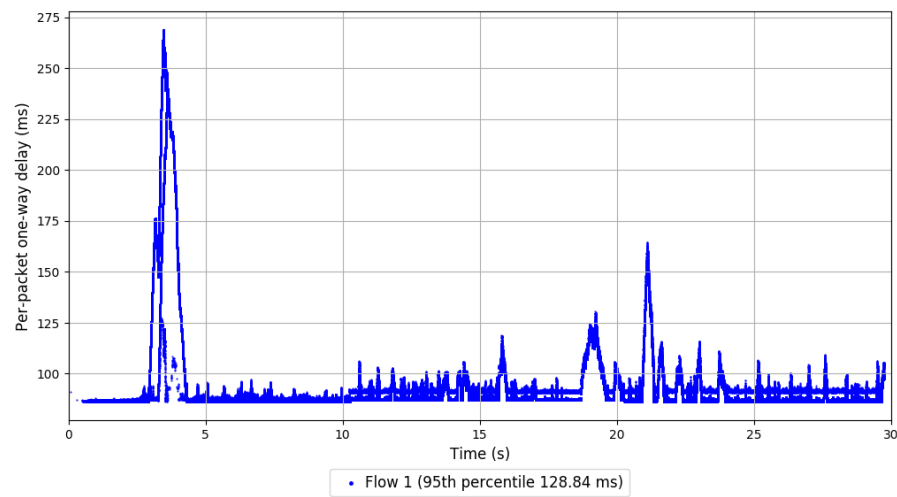
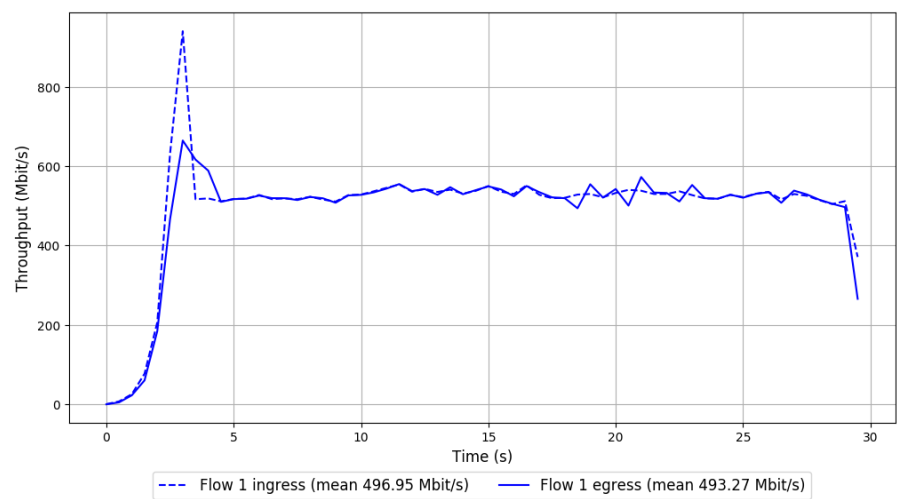
-- Flow 1:

Average throughput: 493.27 Mbit/s

95th percentile per-packet one-way delay: 128.836 ms

Loss rate: 1.46%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-02-27 08:24:39

End at: 2018-02-27 08:25:09

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.77 Mbit/s

95th percentile per-packet one-way delay: 170.286 ms

Loss rate: 2.06%

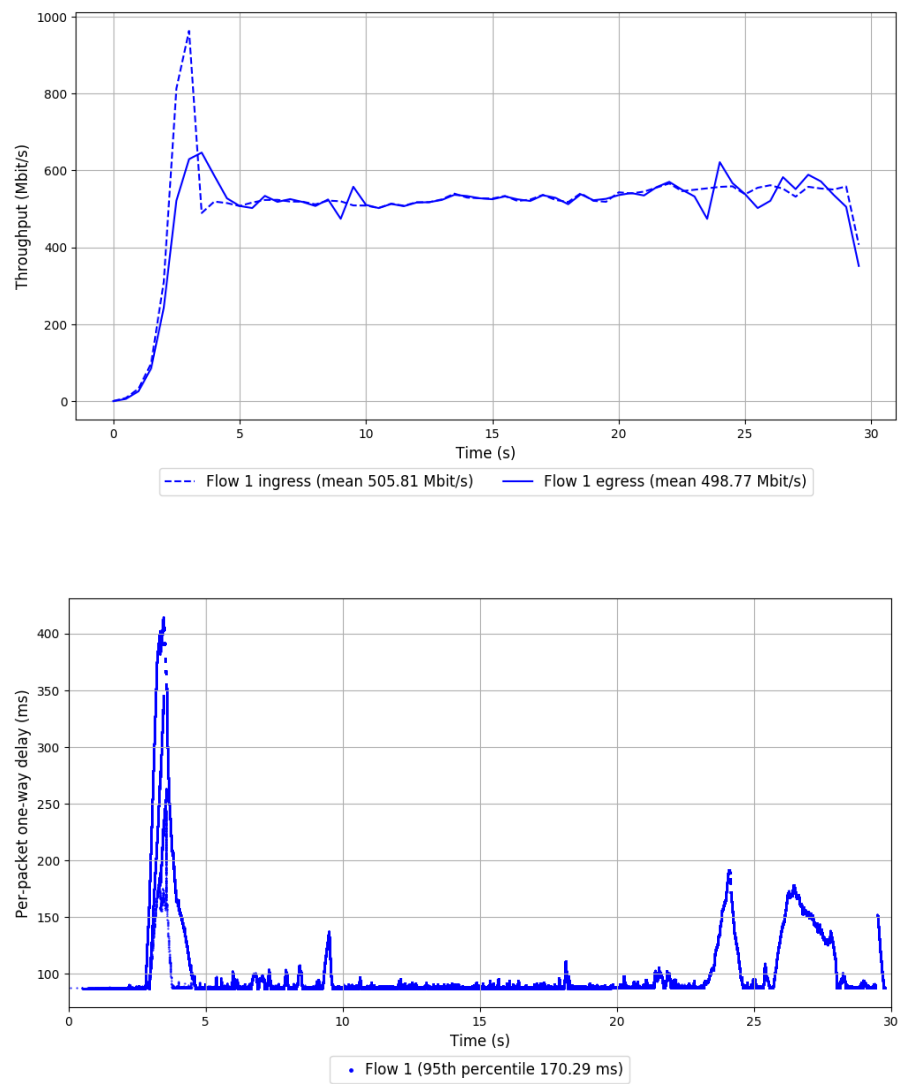
-- Flow 1:

Average throughput: 498.77 Mbit/s

95th percentile per-packet one-way delay: 170.286 ms

Loss rate: 2.06%

Run 10: Report of PCC — Data Link

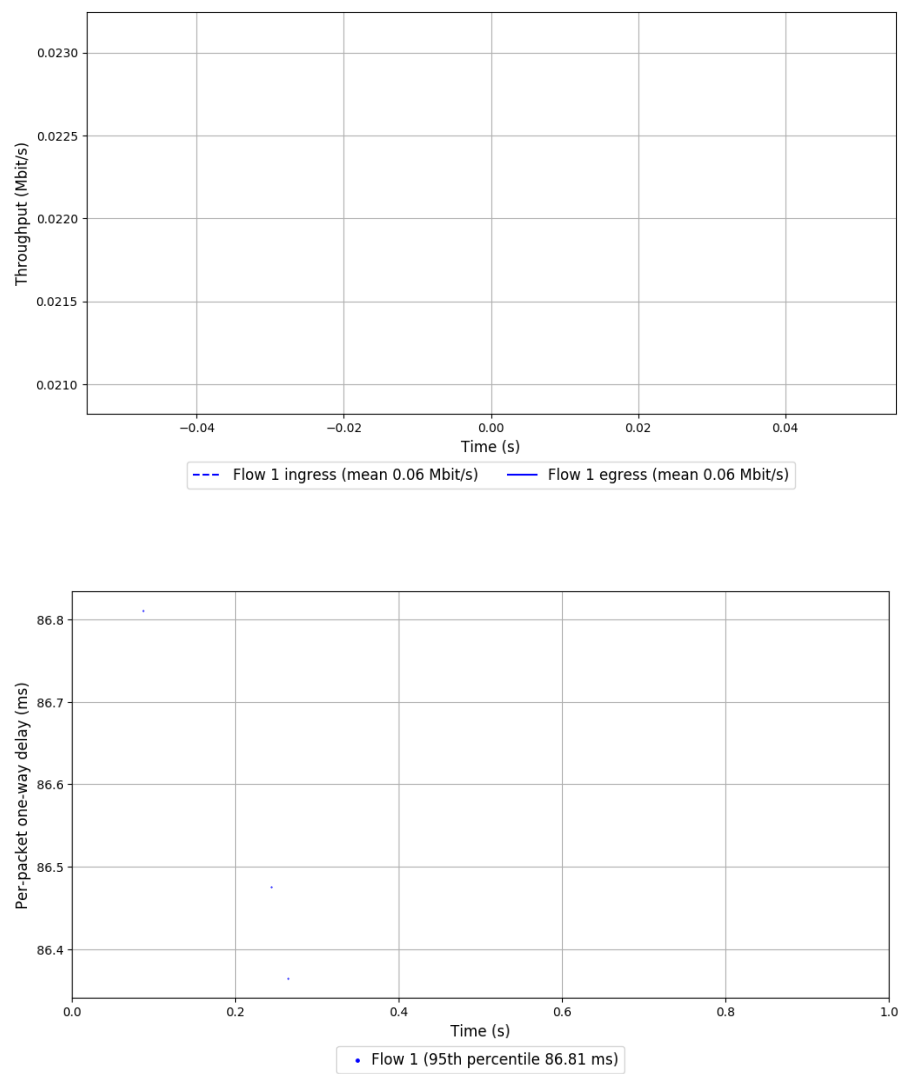


Run 1: Statistics of QUIC Cubic

Start at: 2018-02-27 06:09:07

End at: 2018-02-27 06:09:37

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-02-27 06:24:14

End at: 2018-02-27 06:24:44

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 87.158 ms

Loss rate: 1.13%

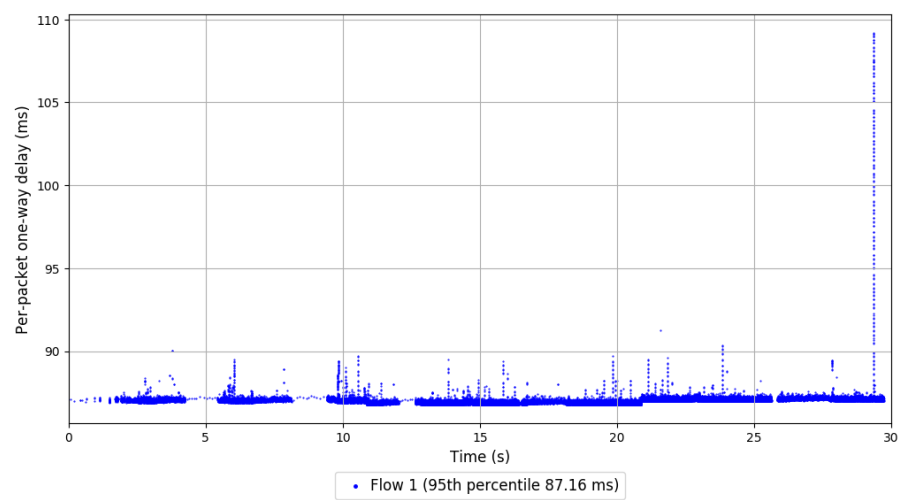
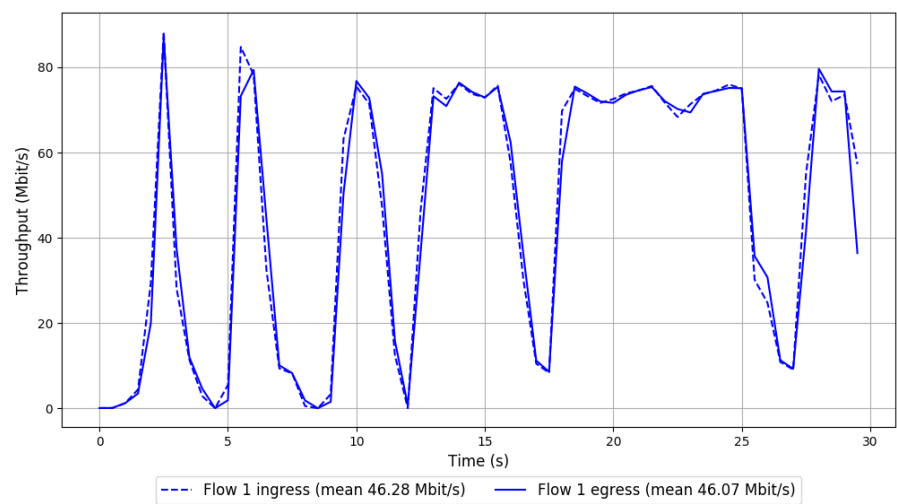
-- Flow 1:

Average throughput: 46.07 Mbit/s

95th percentile per-packet one-way delay: 87.158 ms

Loss rate: 1.13%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-02-27 06:39:43

End at: 2018-02-27 06:40:13

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 91.420 ms

Loss rate: 0.83%

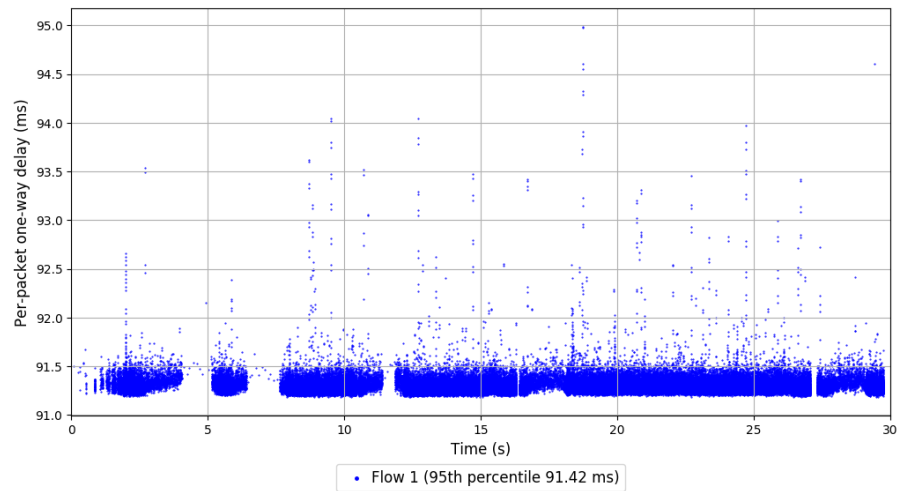
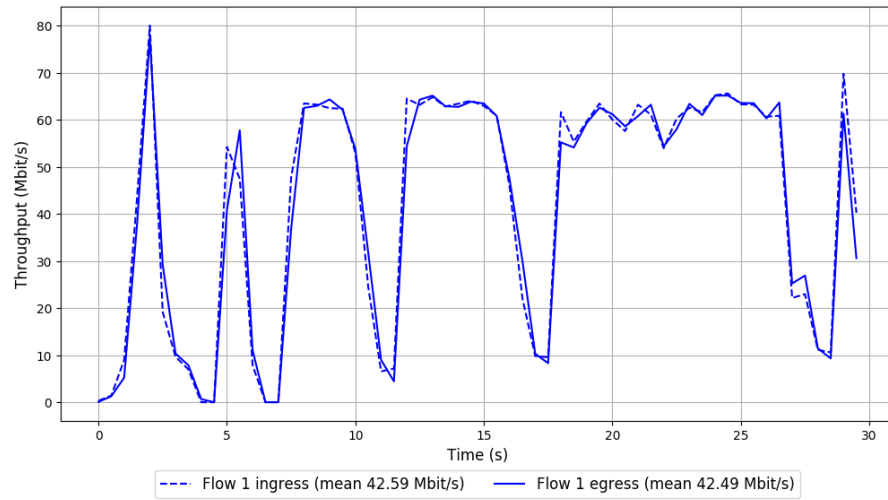
-- Flow 1:

Average throughput: 42.49 Mbit/s

95th percentile per-packet one-way delay: 91.420 ms

Loss rate: 0.83%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-02-27 06:54:47

End at: 2018-02-27 06:55:17

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 114.647 ms

Loss rate: 1.07%

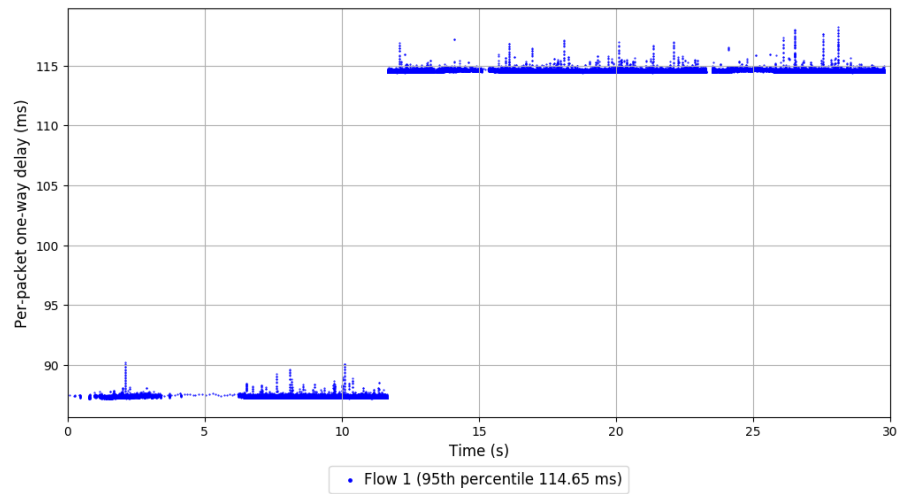
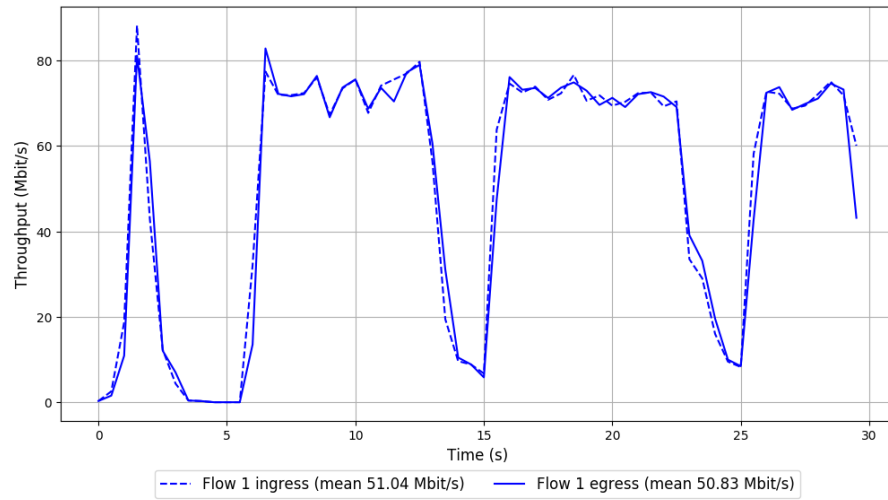
-- Flow 1:

Average throughput: 50.83 Mbit/s

95th percentile per-packet one-way delay: 114.647 ms

Loss rate: 1.07%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-02-27 07:09:51

End at: 2018-02-27 07:10:21

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.52 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 1.05%

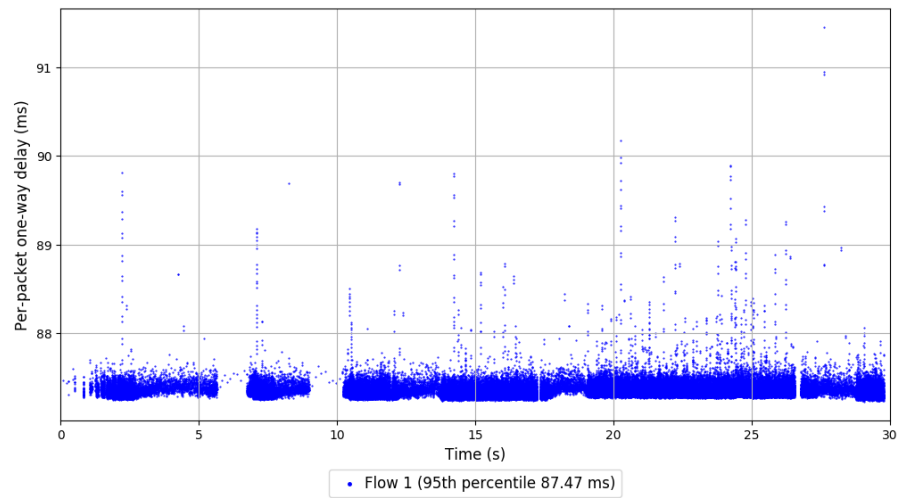
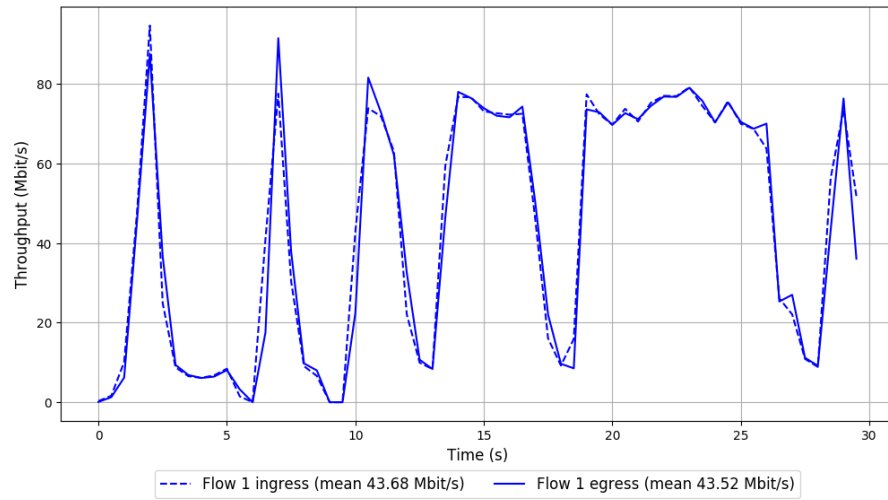
-- Flow 1:

Average throughput: 43.52 Mbit/s

95th percentile per-packet one-way delay: 87.475 ms

Loss rate: 1.05%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-02-27 07:25:12

End at: 2018-02-27 07:25:42

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 87.460 ms

Loss rate: 0.84%

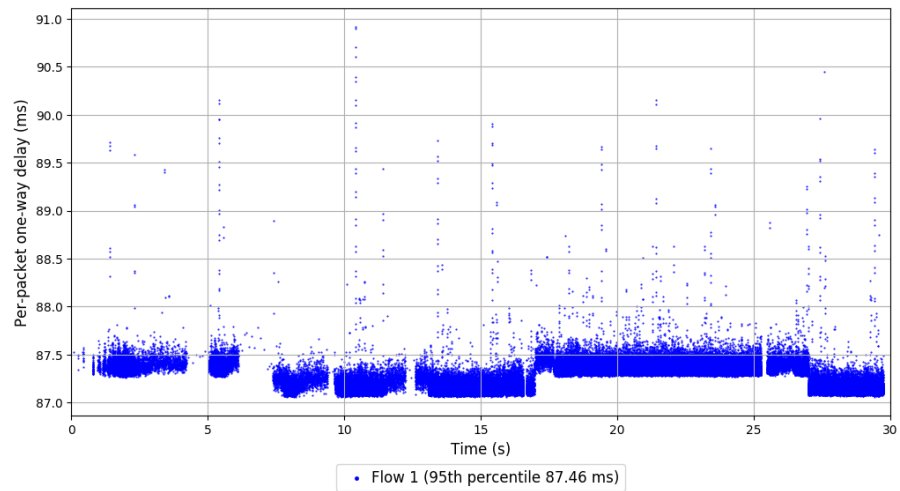
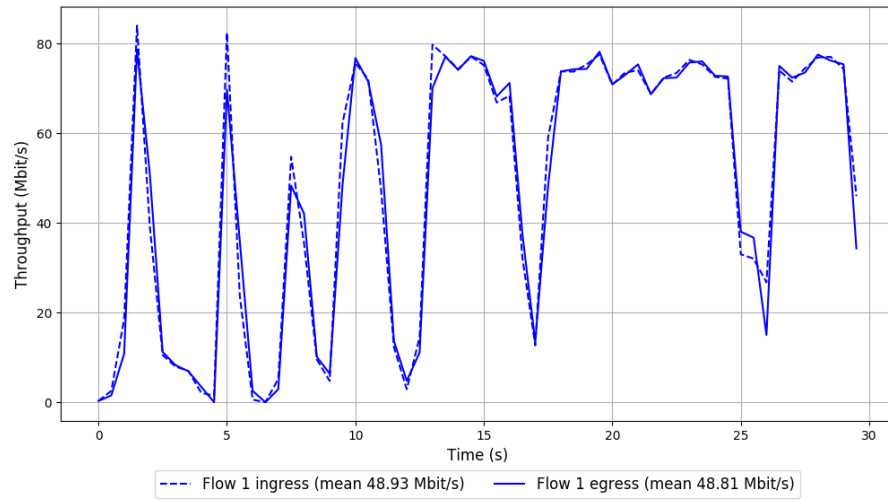
-- Flow 1:

Average throughput: 48.81 Mbit/s

95th percentile per-packet one-way delay: 87.460 ms

Loss rate: 0.84%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-02-27 07:40:34

End at: 2018-02-27 07:41:04

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 0.99%

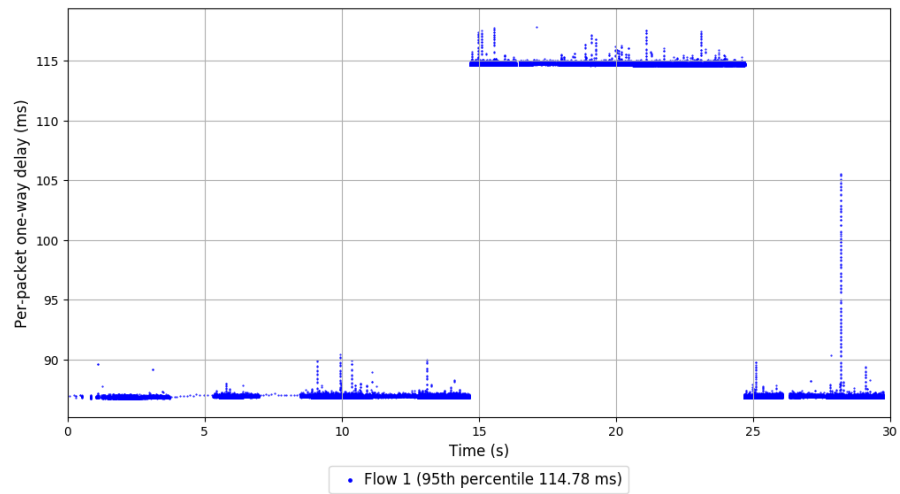
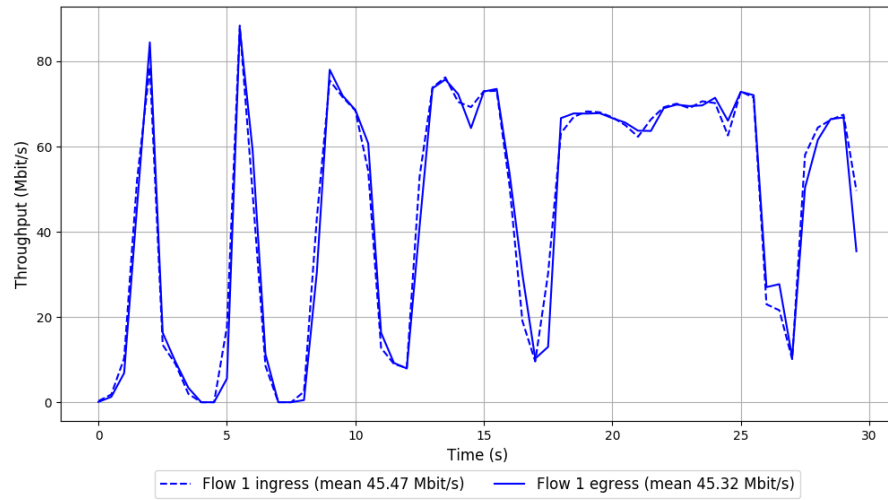
-- Flow 1:

Average throughput: 45.32 Mbit/s

95th percentile per-packet one-way delay: 114.776 ms

Loss rate: 0.99%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-02-27 07:56:06

End at: 2018-02-27 07:56:36

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 87.091 ms

Loss rate: 0.99%

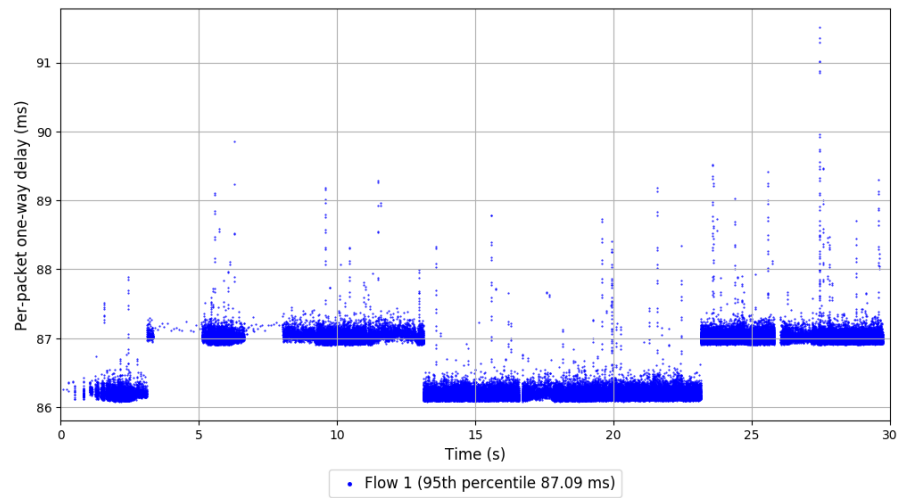
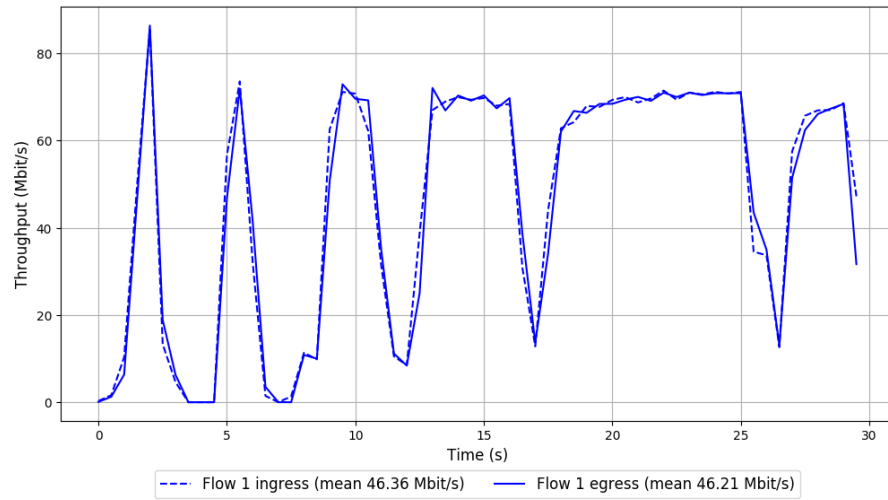
-- Flow 1:

Average throughput: 46.21 Mbit/s

95th percentile per-packet one-way delay: 87.091 ms

Loss rate: 0.99%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-02-27 08:11:21

End at: 2018-02-27 08:11:51

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 1.18%

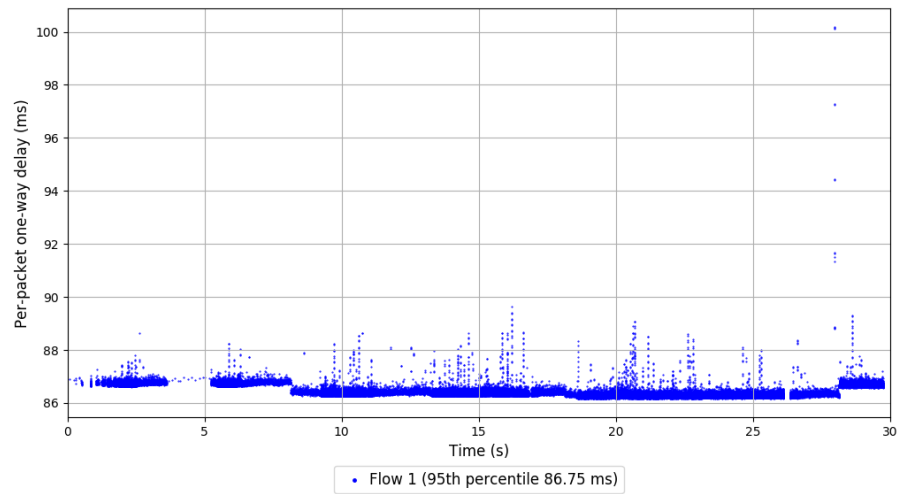
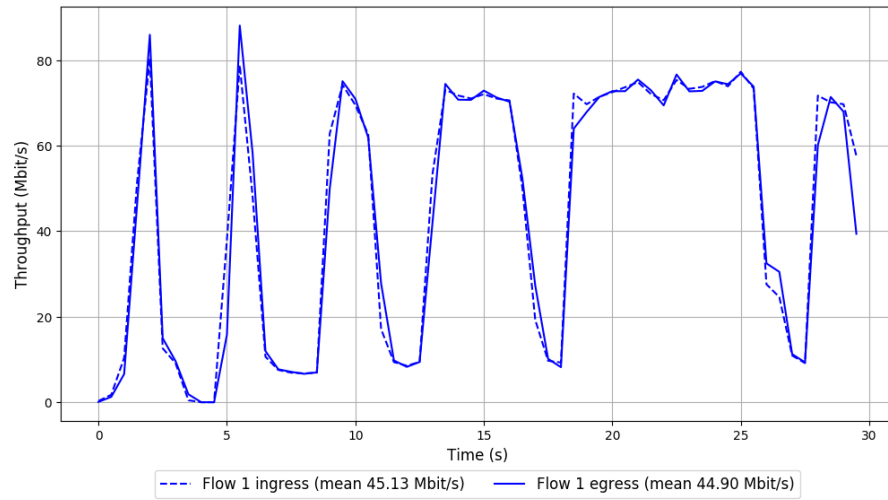
-- Flow 1:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 1.18%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-02-27 08:26:36

End at: 2018-02-27 08:27:06

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 87.131 ms

Loss rate: 1.01%

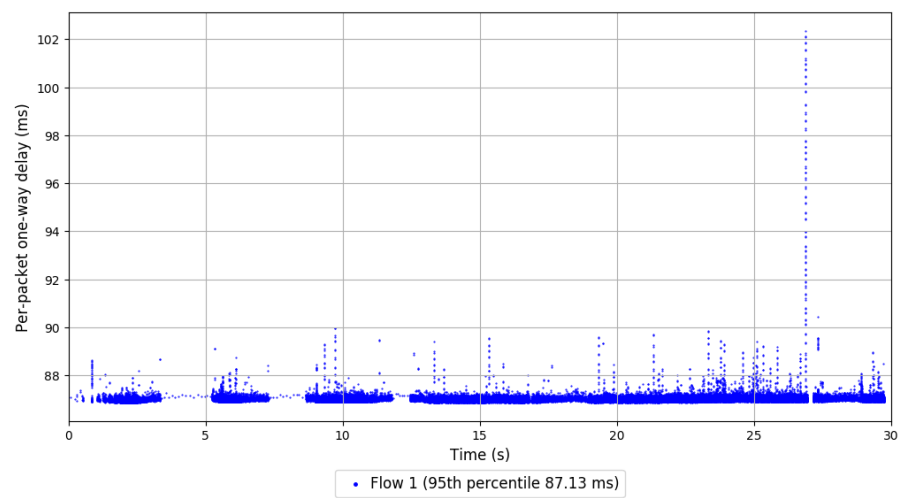
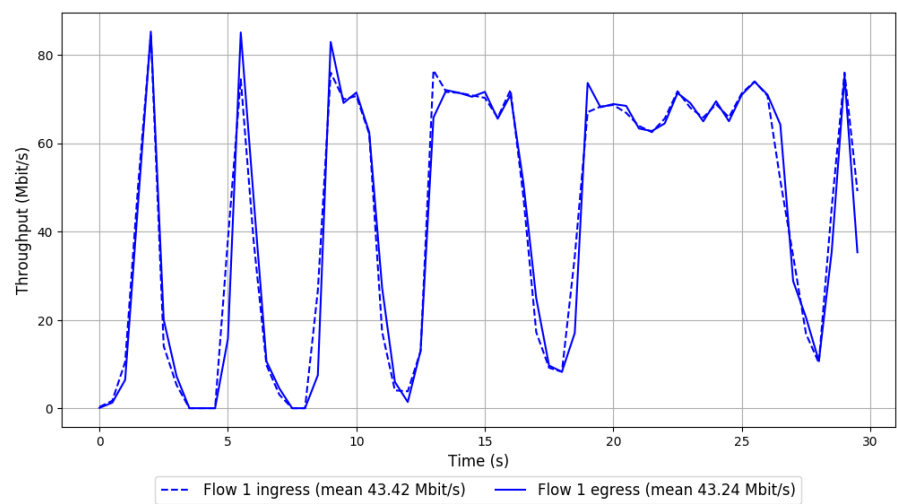
-- Flow 1:

Average throughput: 43.24 Mbit/s

95th percentile per-packet one-way delay: 87.131 ms

Loss rate: 1.01%

Run 10: Report of QUIC Cubic — Data Link

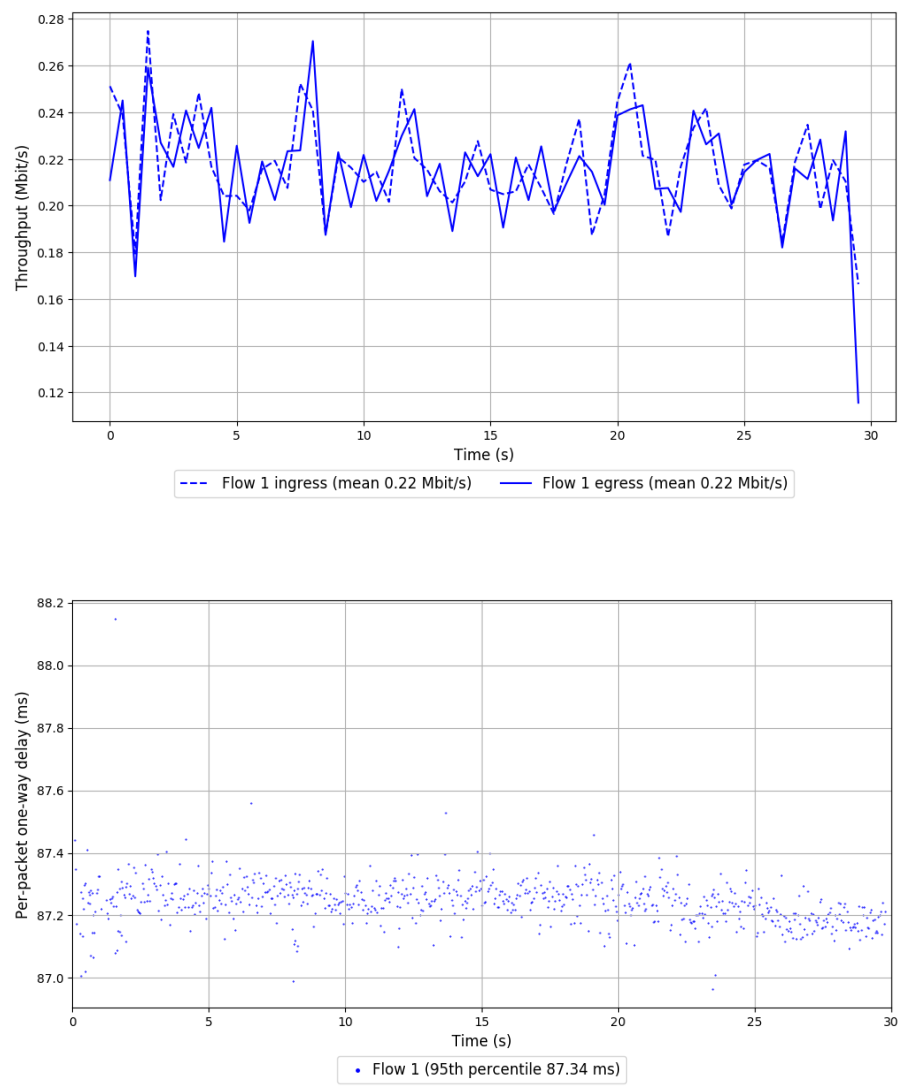


```
Run 1: Statistics of SCReAM

Start at: 2018-02-27 06:11:23
End at: 2018-02-27 06:11:53

# Below is generated by plot.py at 2018-02-27 11:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.340 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 87.340 ms
Loss rate: 0.64%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-02-27 06:26:36

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

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.465 ms

Loss rate: 0.64%

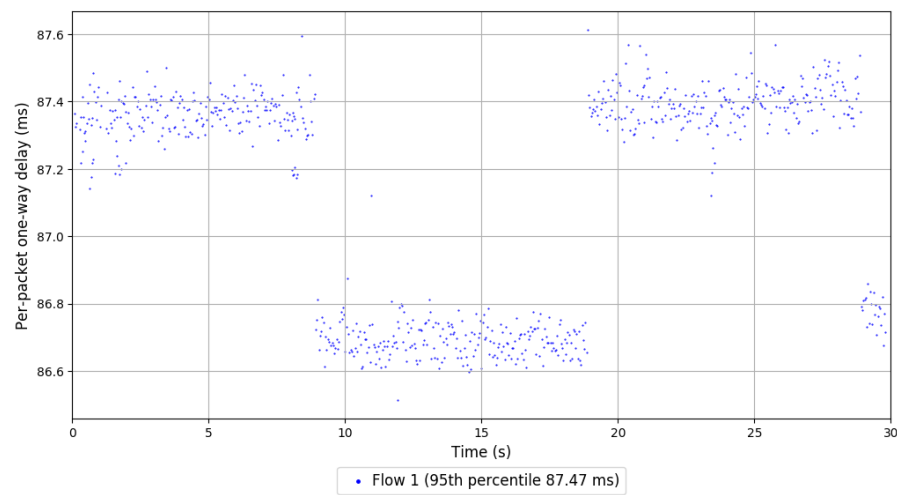
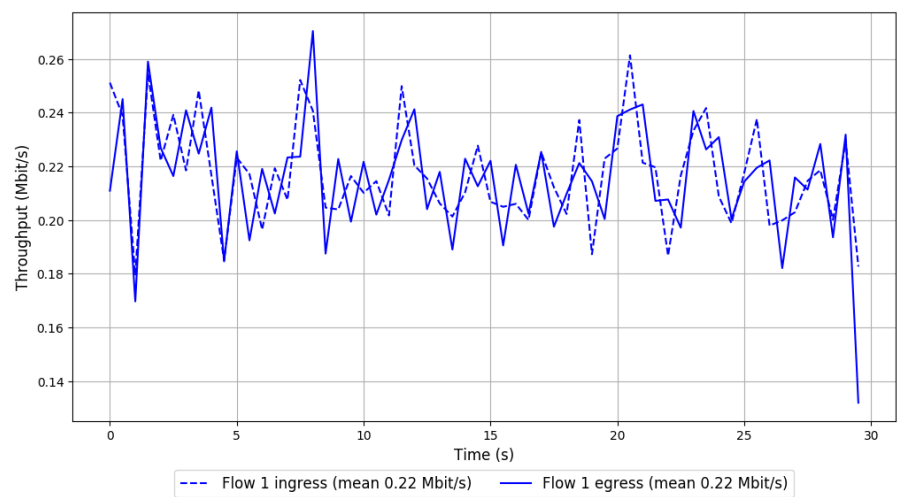
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.465 ms

Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-02-27 06:42:08

End at: 2018-02-27 06:42:38

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.338 ms

Loss rate: 0.51%

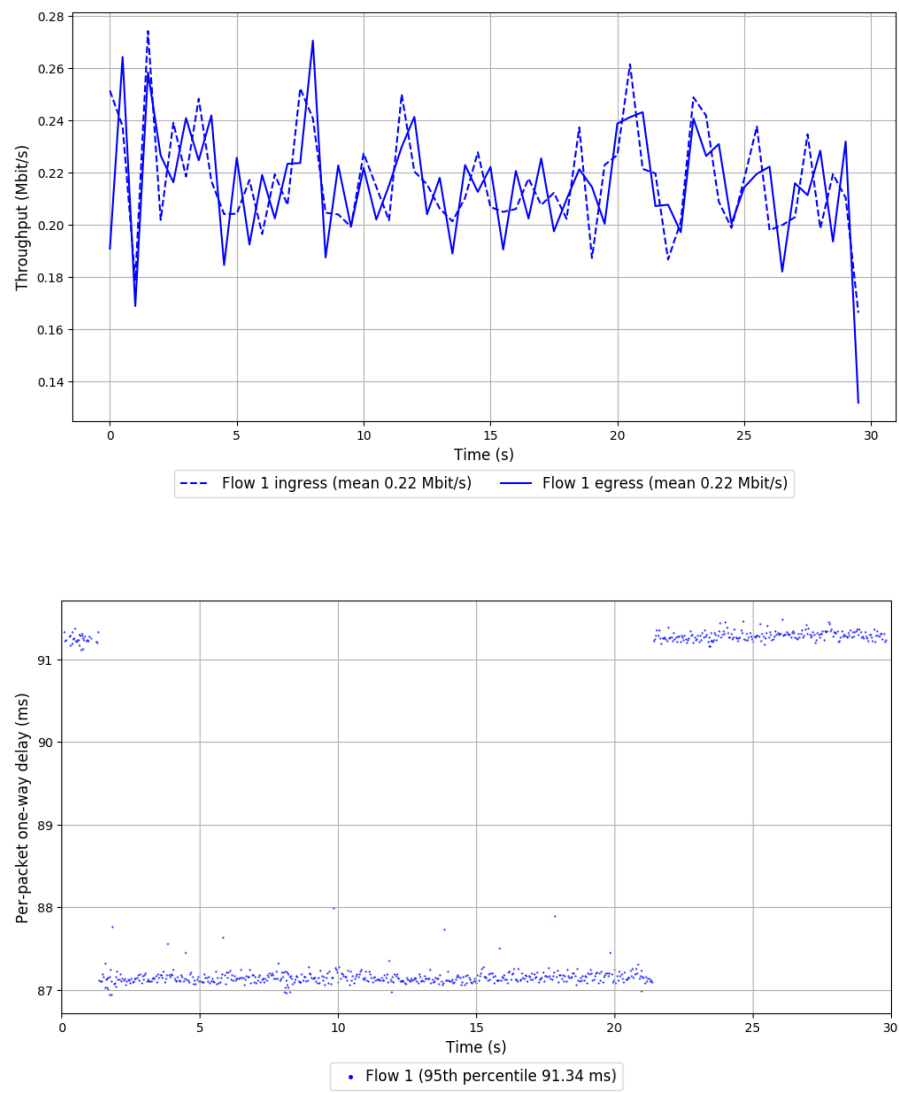
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.338 ms

Loss rate: 0.51%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-02-27 06:57:07

End at: 2018-02-27 06:57:37

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.716 ms

Loss rate: 0.64%

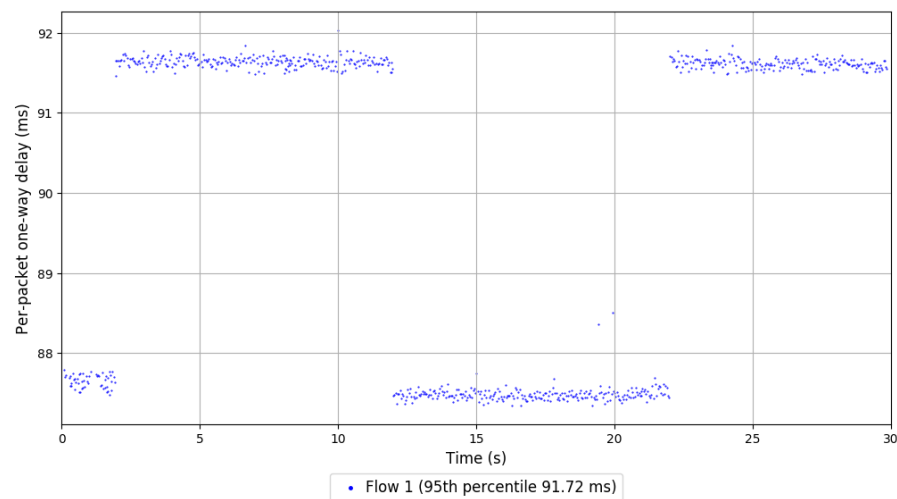
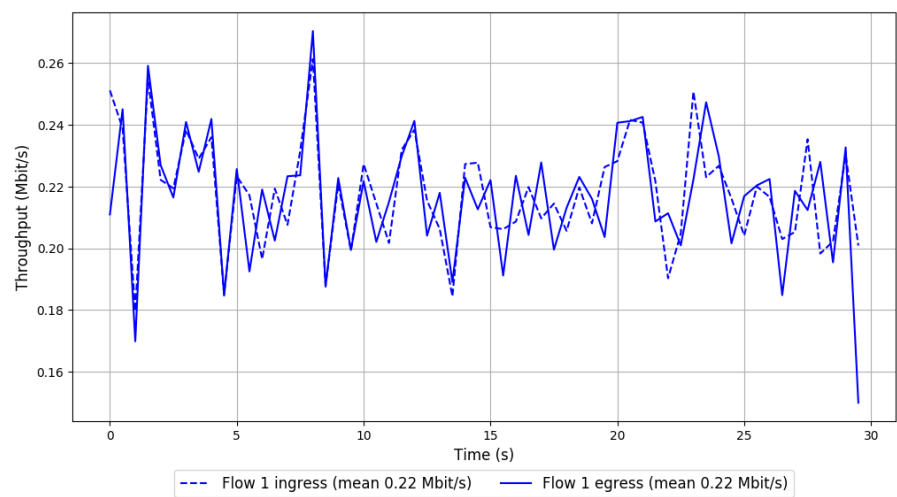
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 91.716 ms

Loss rate: 0.64%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-02-27 07:12:18

End at: 2018-02-27 07:12:48

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.65%

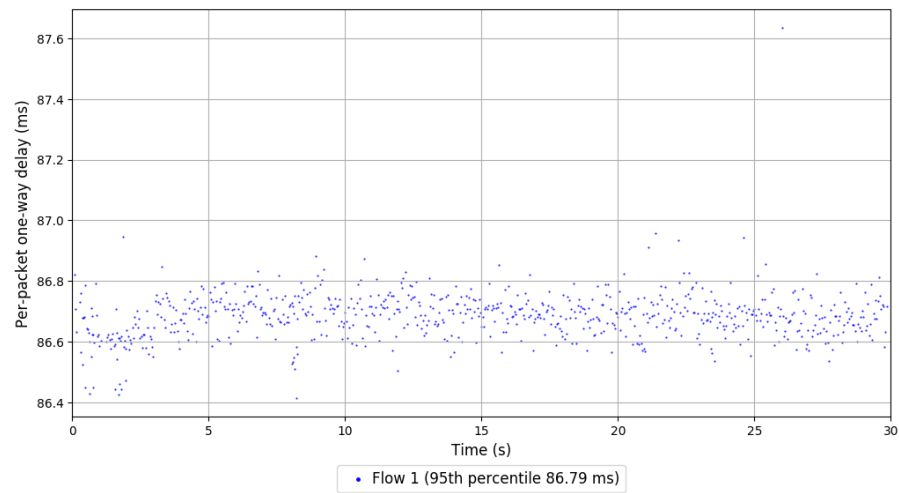
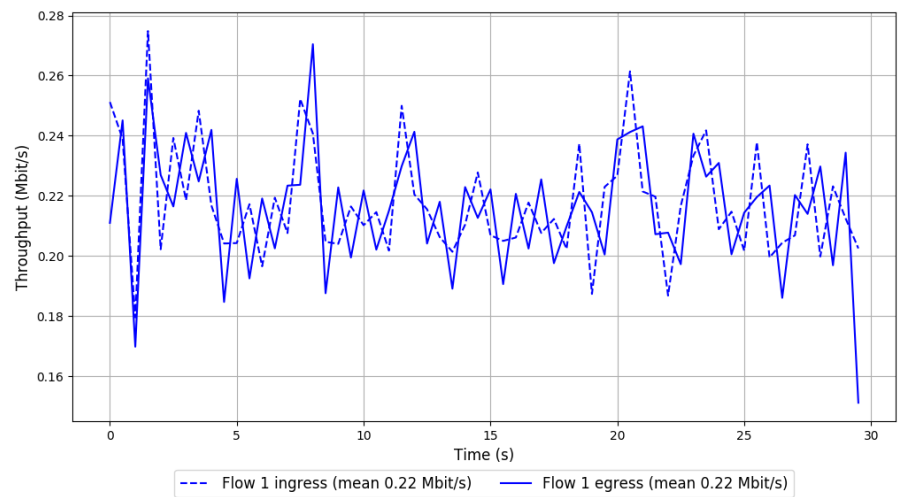
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.792 ms

Loss rate: 0.65%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-02-27 07:27:39

End at: 2018-02-27 07:28:09

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.51%

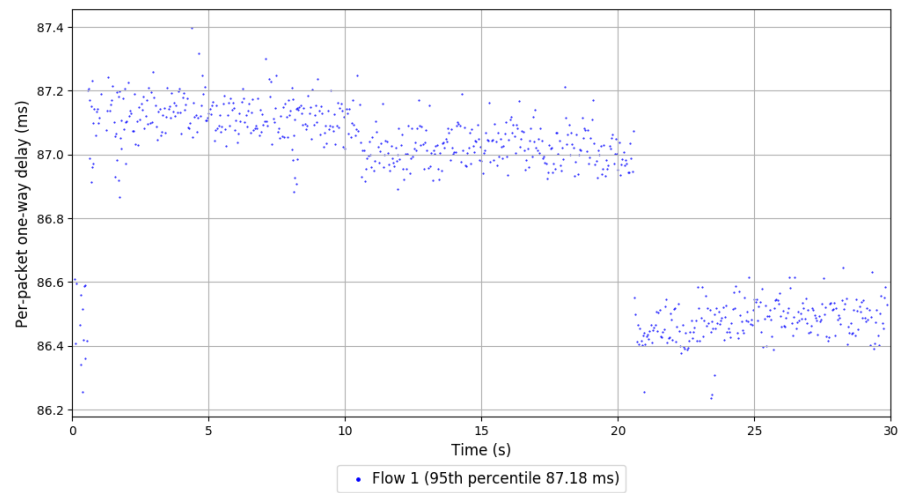
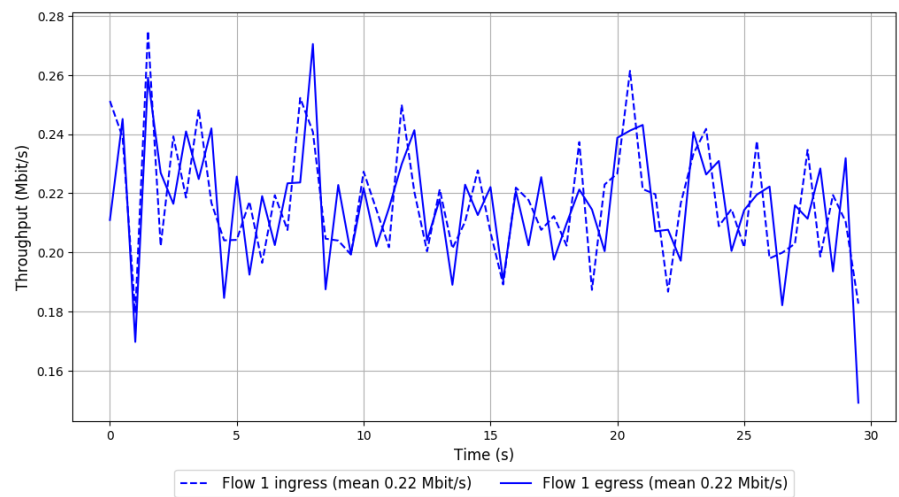
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.180 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-02-27 07:43:25

End at: 2018-02-27 07:43:55

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.443 ms

Loss rate: 0.64%

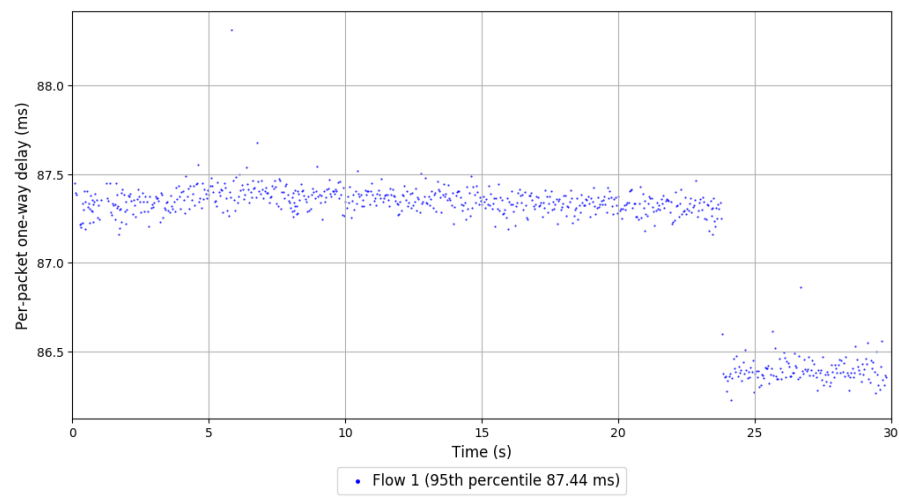
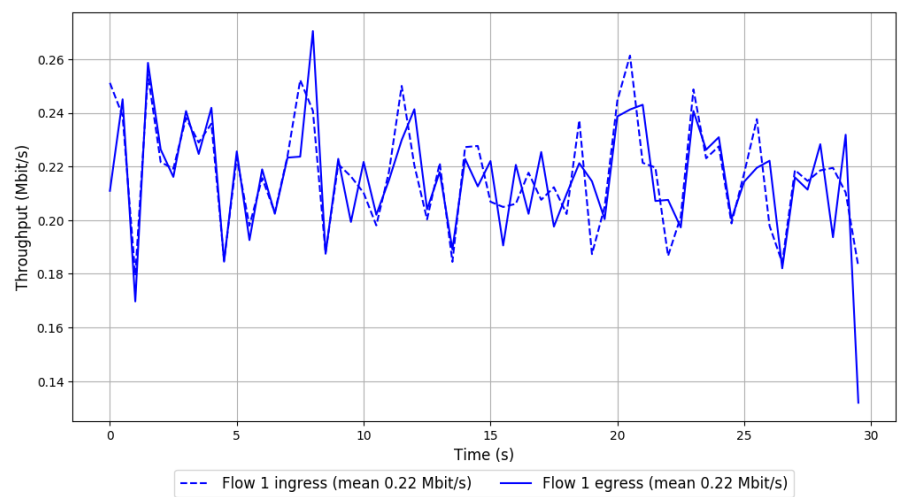
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 87.443 ms

Loss rate: 0.64%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-02-27 07:58:30

End at: 2018-02-27 07:59:00

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.781 ms

Loss rate: 0.64%

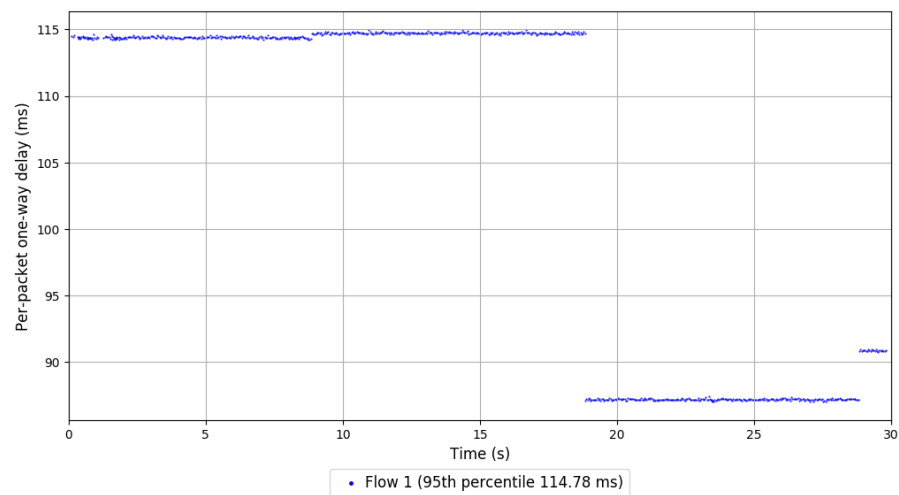
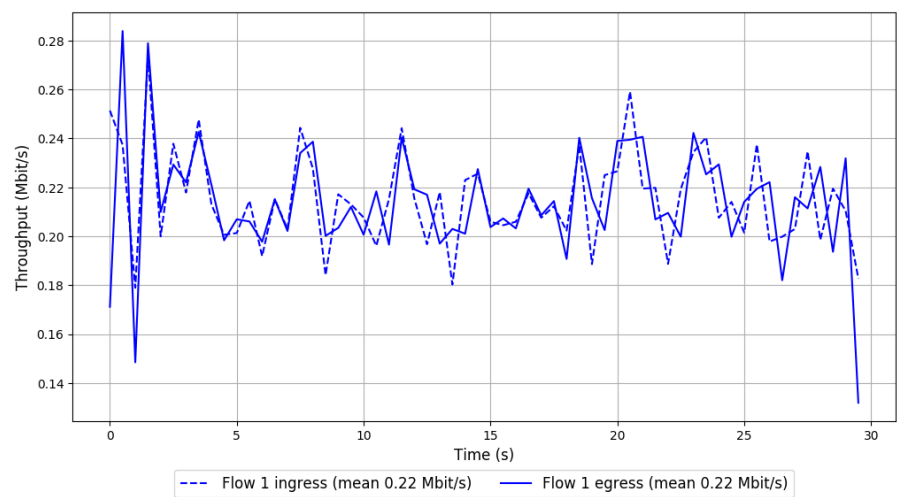
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 114.781 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-02-27 08:13:41

End at: 2018-02-27 08:14:11

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 114.747 ms

Loss rate: 0.54%

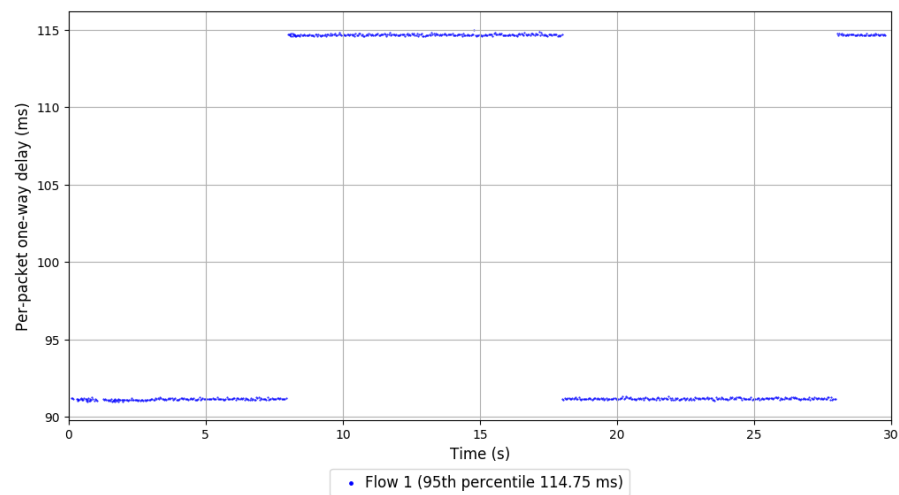
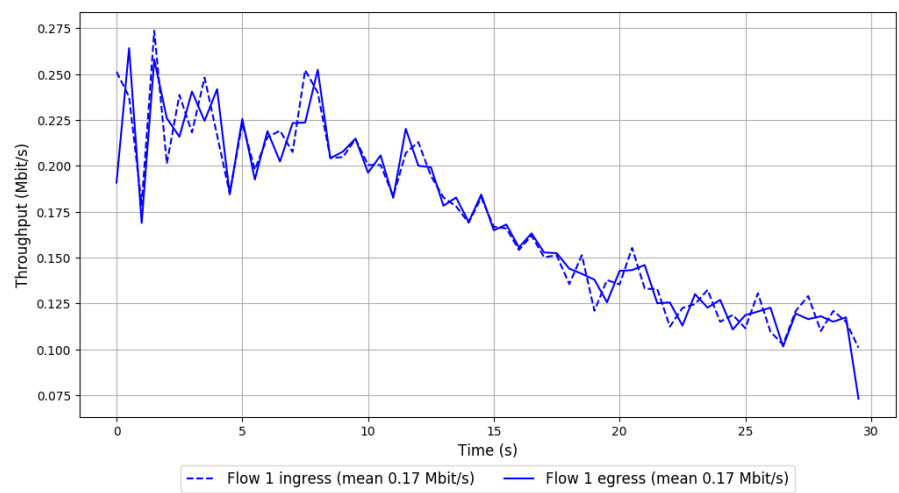
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 114.747 ms

Loss rate: 0.54%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-02-27 08:29:02

End at: 2018-02-27 08:29:32

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.480 ms

Loss rate: 0.64%

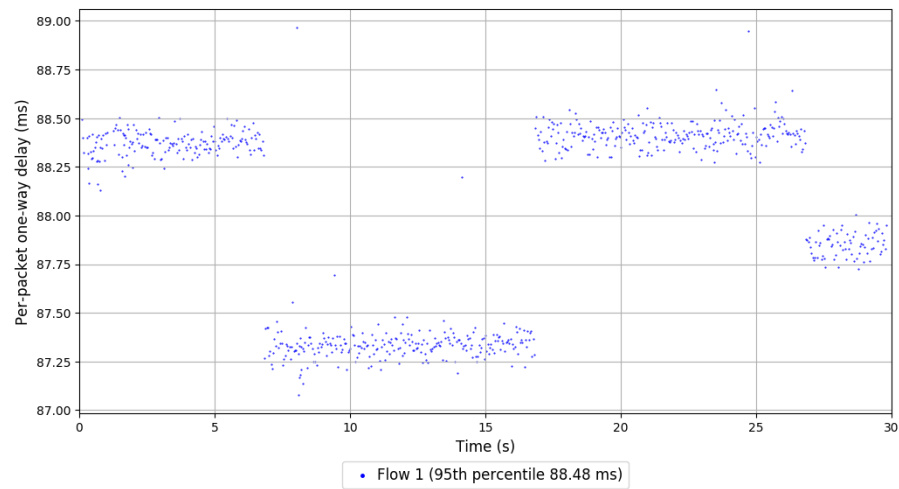
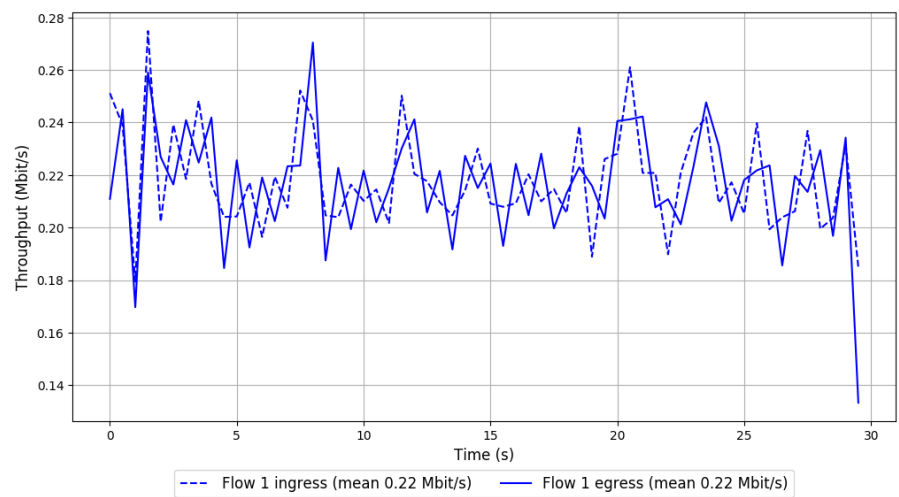
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 88.480 ms

Loss rate: 0.64%

Run 10: Report of SCRaM — Data Link

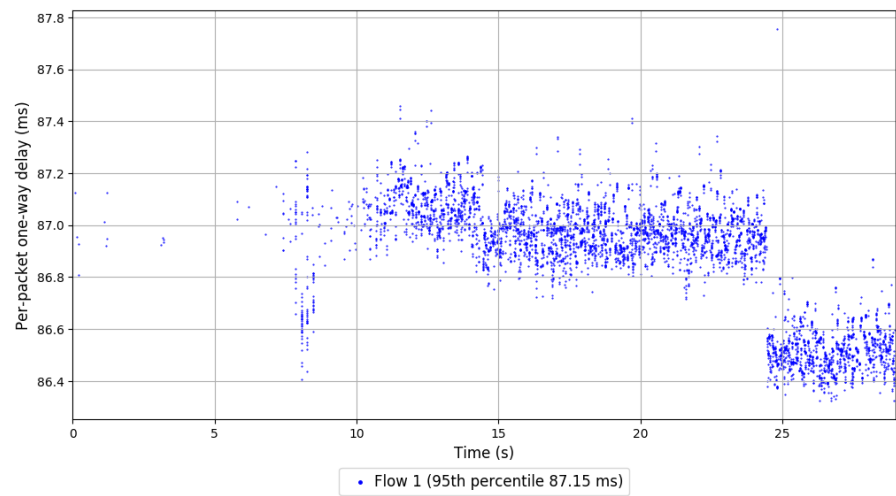
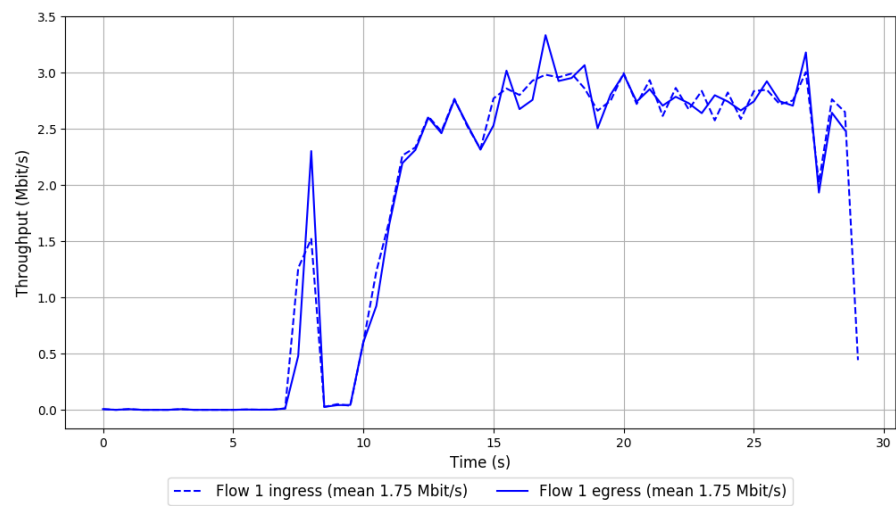


```
Run 1: Statistics of WebRTC media

Start at: 2018-02-27 06:19:59
End at: 2018-02-27 06:20:29

# Below is generated by plot.py at 2018-02-27 11:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 87.149 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 1.75 Mbit/s
95th percentile per-packet one-way delay: 87.149 ms
Loss rate: 1.08%
```


Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-02-27 06:35:22

End at: 2018-02-27 06:35:52

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 114.657 ms

Loss rate: 0.77%

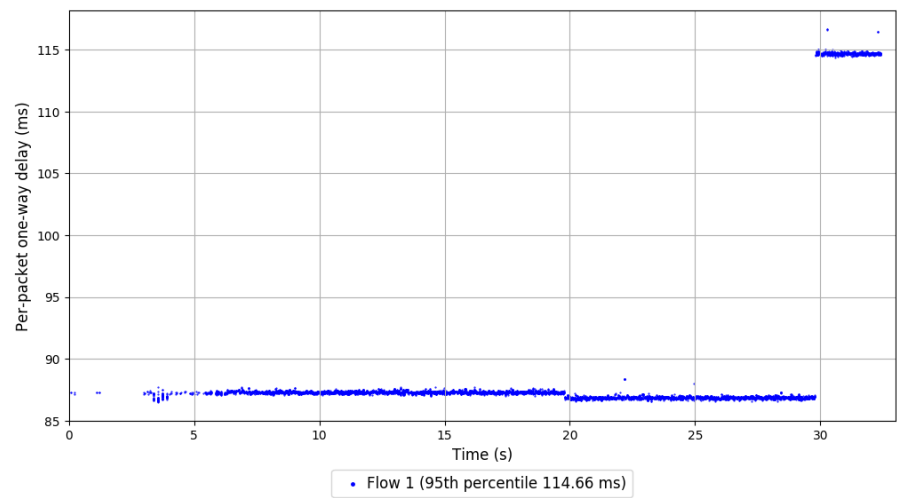
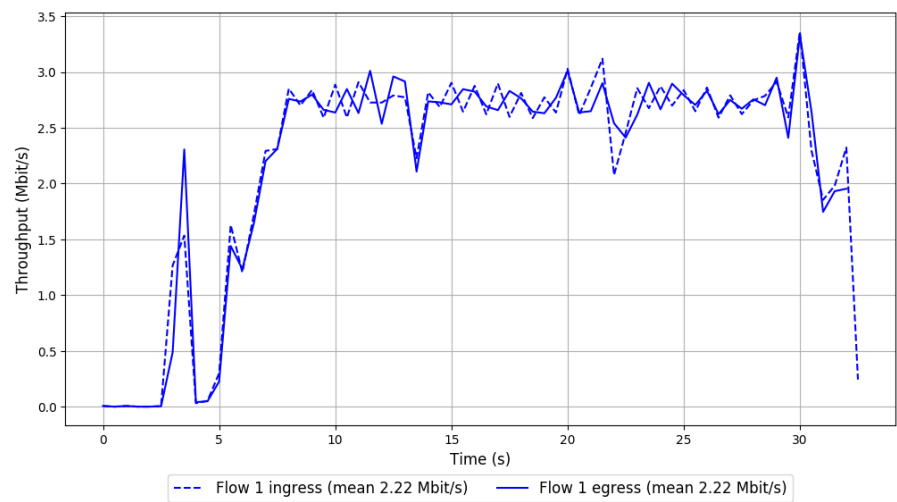
-- Flow 1:

Average throughput: 2.22 Mbit/s

95th percentile per-packet one-way delay: 114.657 ms

Loss rate: 0.77%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-02-27 06:50:41

End at: 2018-02-27 06:51:11

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.689 ms

Loss rate: 0.77%

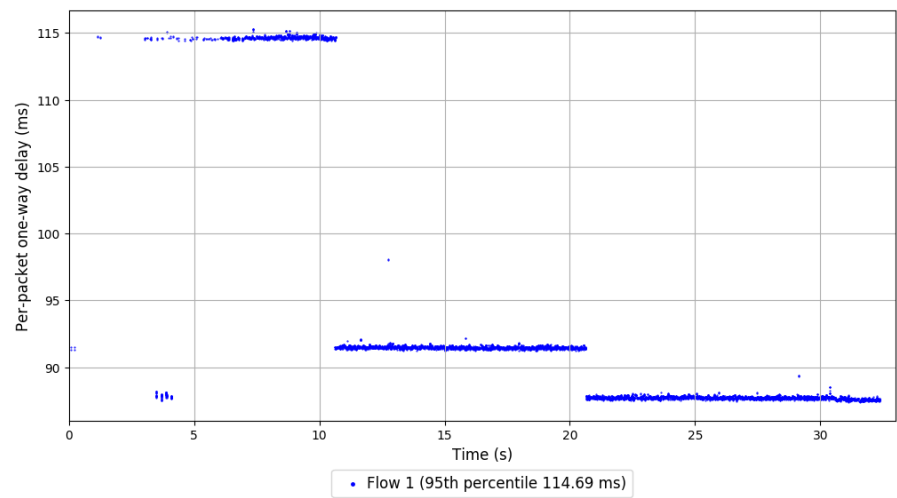
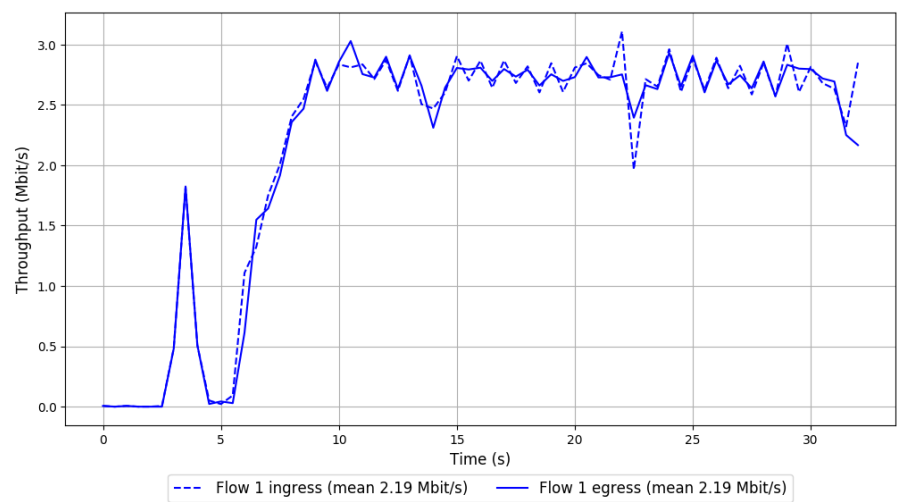
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.689 ms

Loss rate: 0.77%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-02-27 07:05:41

End at: 2018-02-27 07:06:11

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 115.056 ms

Loss rate: 0.78%

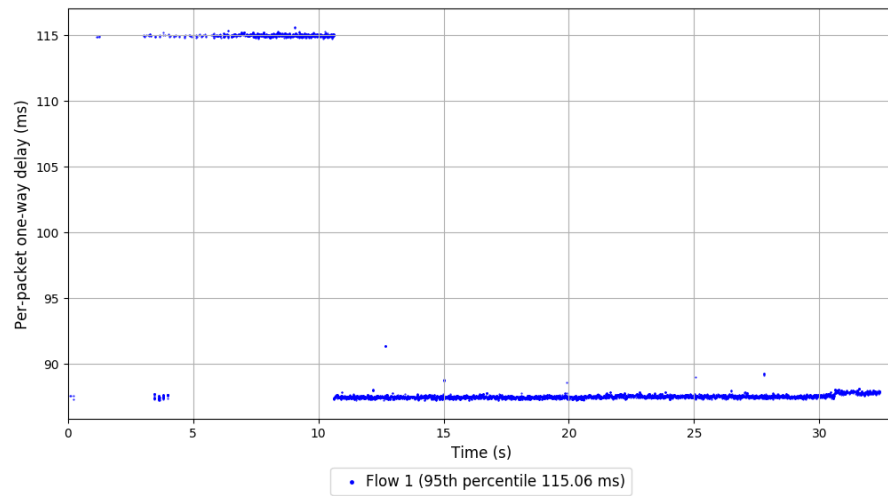
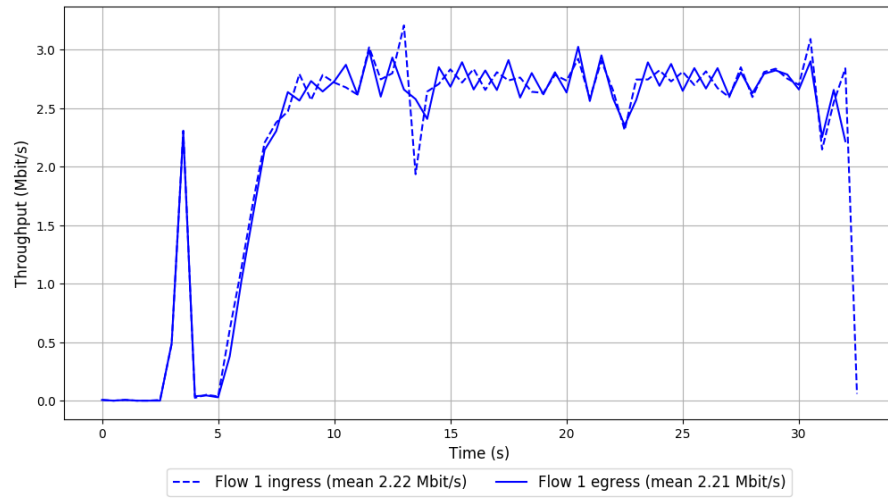
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 115.056 ms

Loss rate: 0.78%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-02-27 07:21:01

End at: 2018-02-27 07:21:31

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 91.257 ms

Loss rate: 0.78%

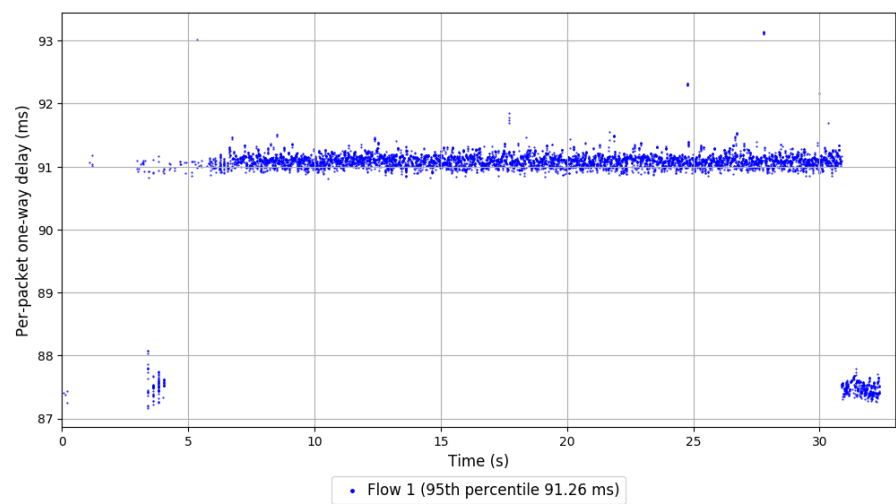
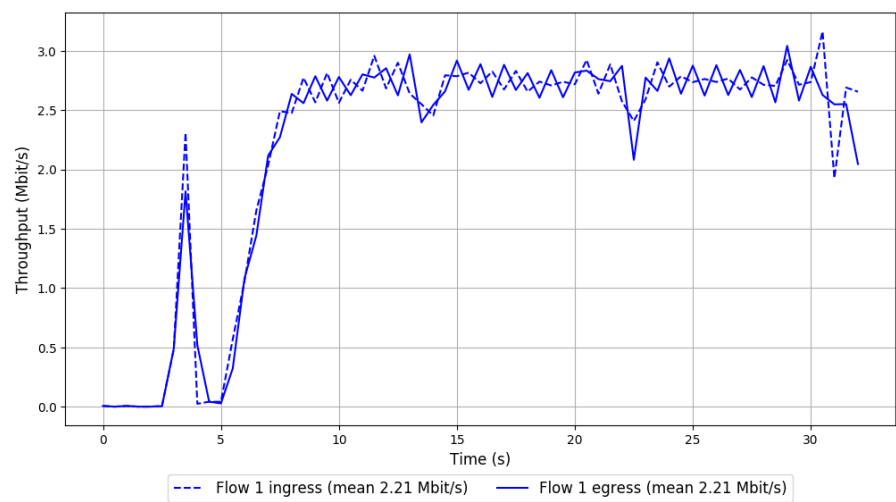
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 91.257 ms

Loss rate: 0.78%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-02-27 07:36:22

End at: 2018-02-27 07:36:52

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.688 ms

Loss rate: 0.56%

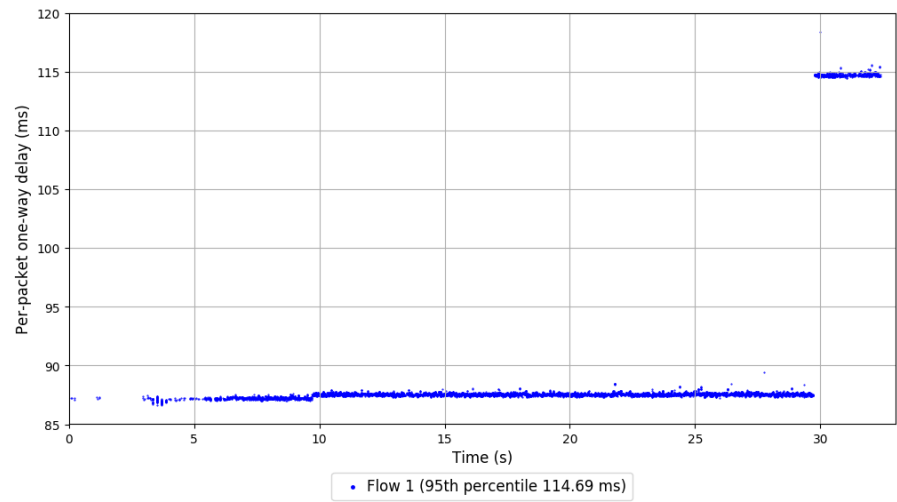
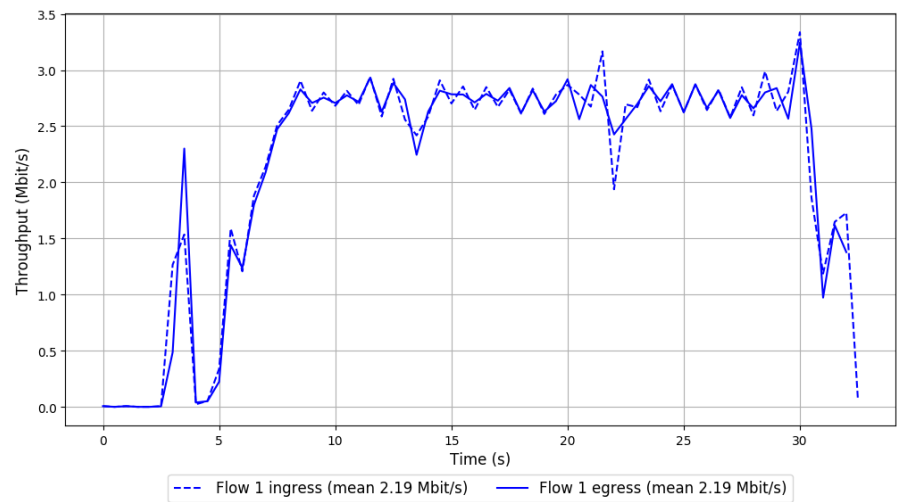
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 114.688 ms

Loss rate: 0.56%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-02-27 07:51:59

End at: 2018-02-27 07:52:29

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.76%

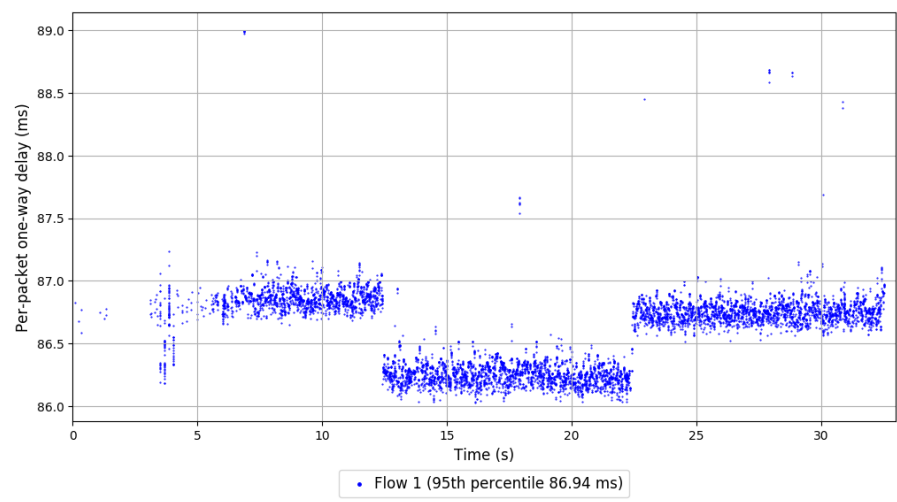
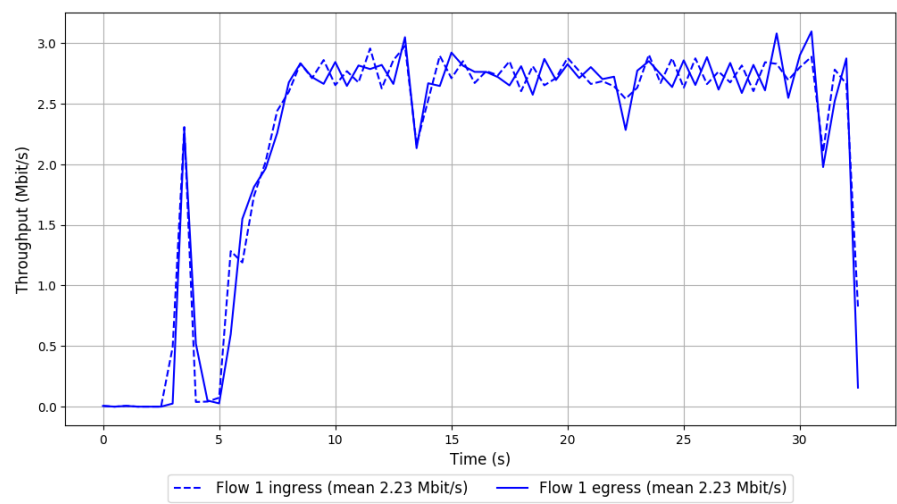
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 86.939 ms

Loss rate: 0.76%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-02-27 08:07:08

End at: 2018-02-27 08:07:38

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 86.908 ms

Loss rate: 0.77%

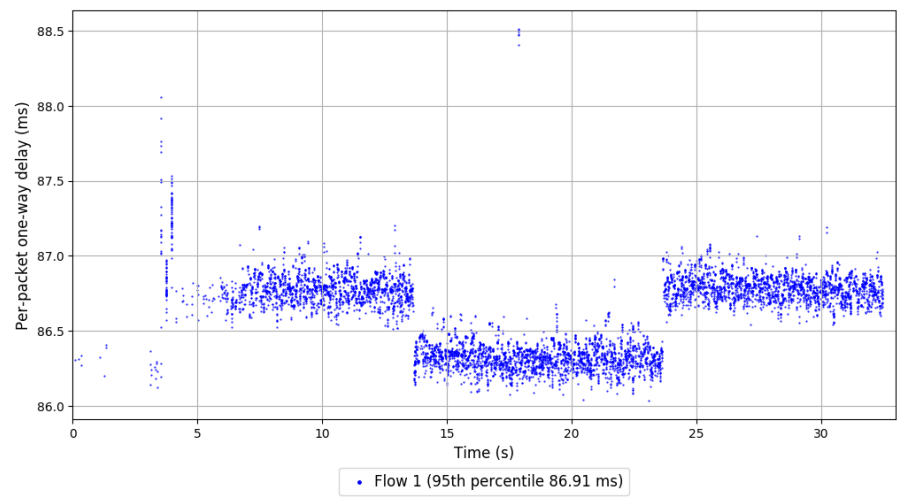
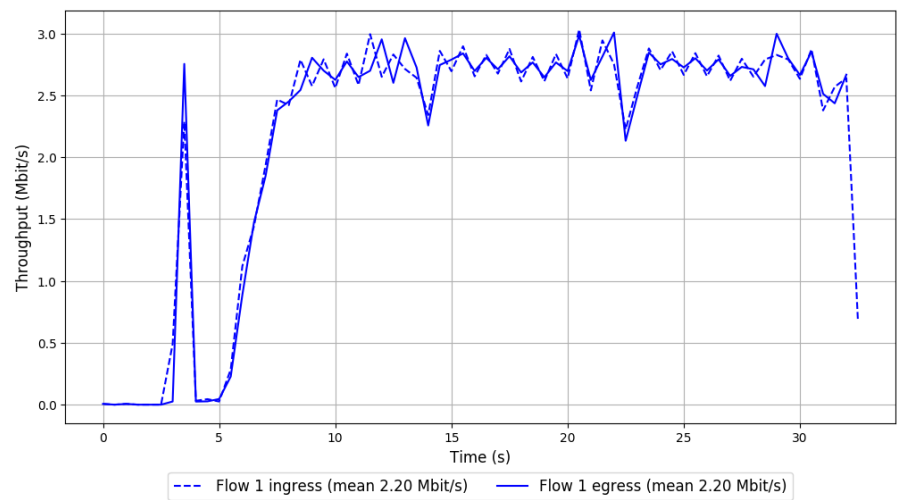
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 86.908 ms

Loss rate: 0.77%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-02-27 08:22:13

End at: 2018-02-27 08:22:43

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 91.744 ms

Loss rate: 0.79%

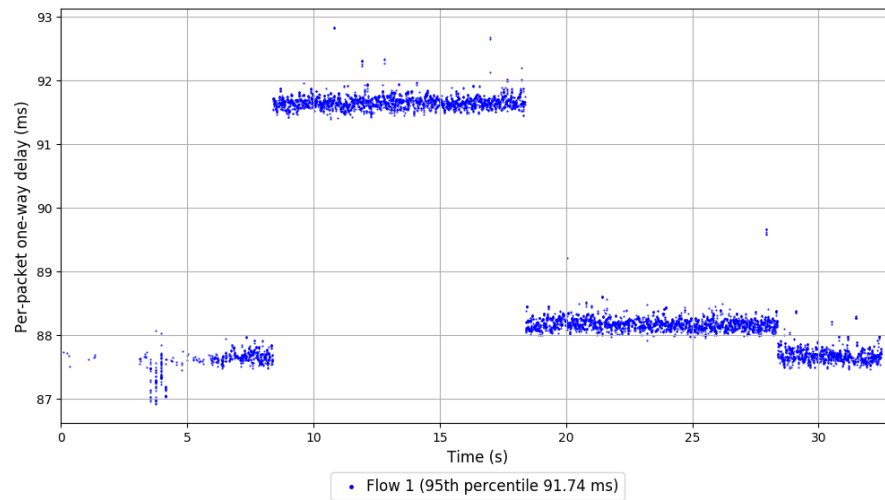
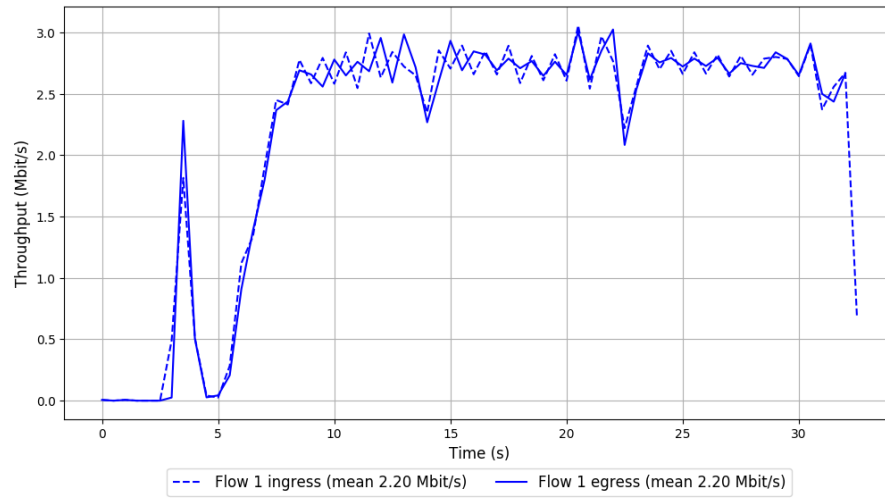
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 91.744 ms

Loss rate: 0.79%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-02-27 08:37:27

End at: 2018-02-27 08:37:57

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 92.258 ms

Loss rate: 0.76%

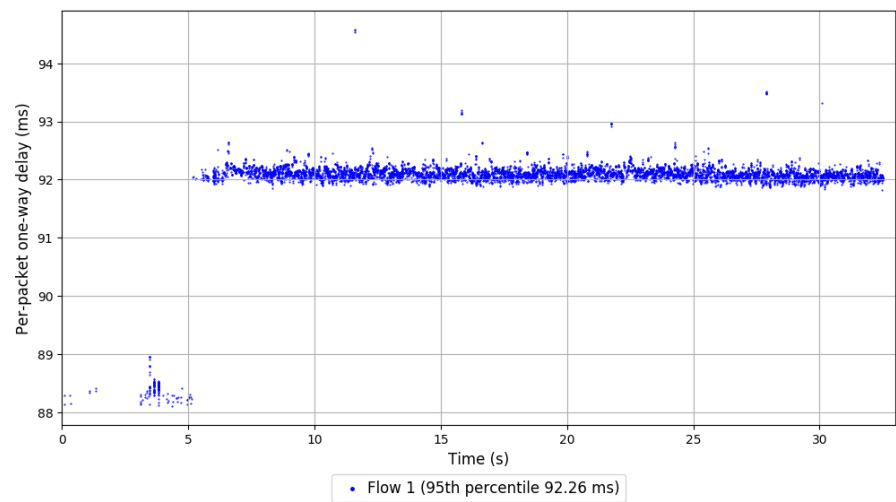
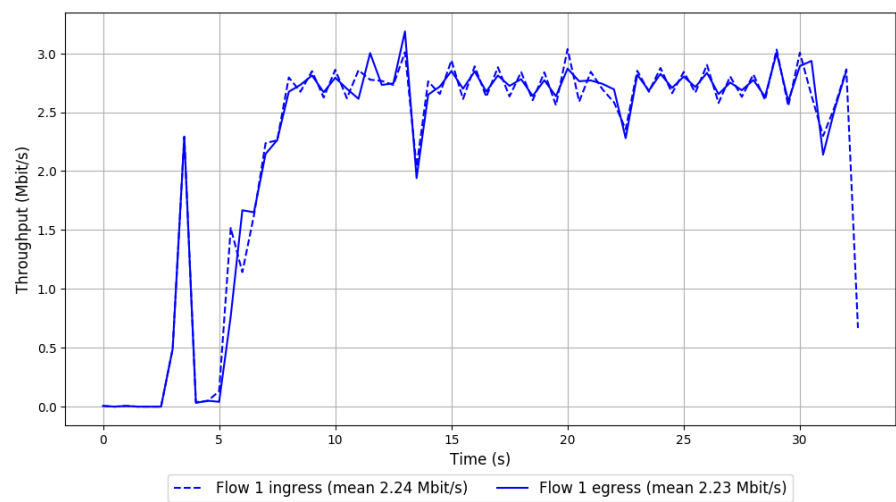
-- Flow 1:

Average throughput: 2.23 Mbit/s

95th percentile per-packet one-way delay: 92.258 ms

Loss rate: 0.76%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-02-27 06:15:32

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

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 88.066 ms

Loss rate: 1.31%

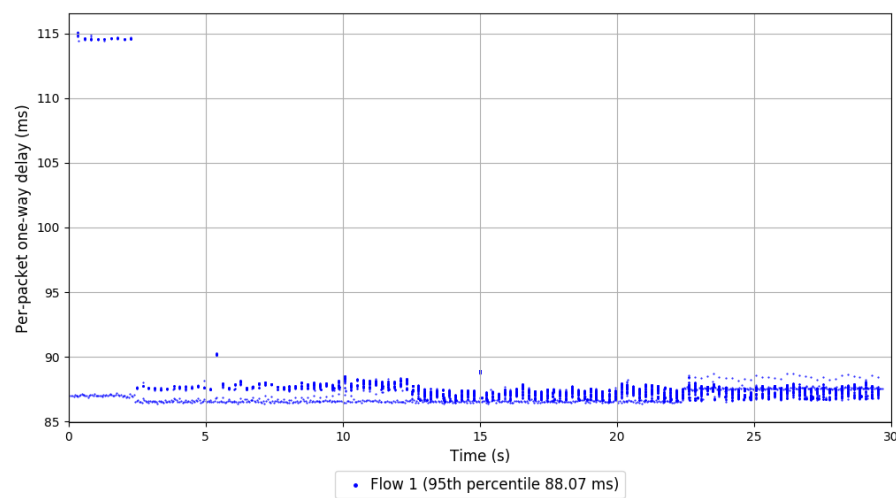
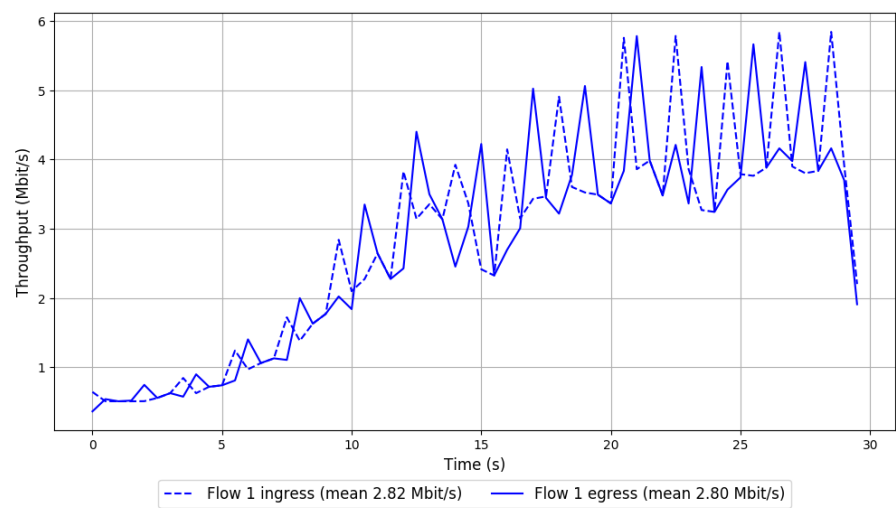
-- Flow 1:

Average throughput: 2.80 Mbit/s

95th percentile per-packet one-way delay: 88.066 ms

Loss rate: 1.31%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-02-27 06:30:52

End at: 2018-02-27 06:31:22

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 114.751 ms

Loss rate: 2.16%

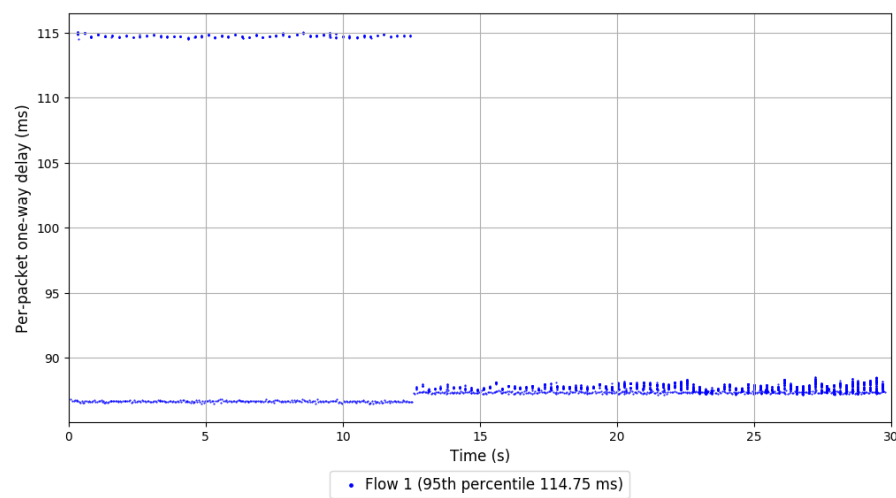
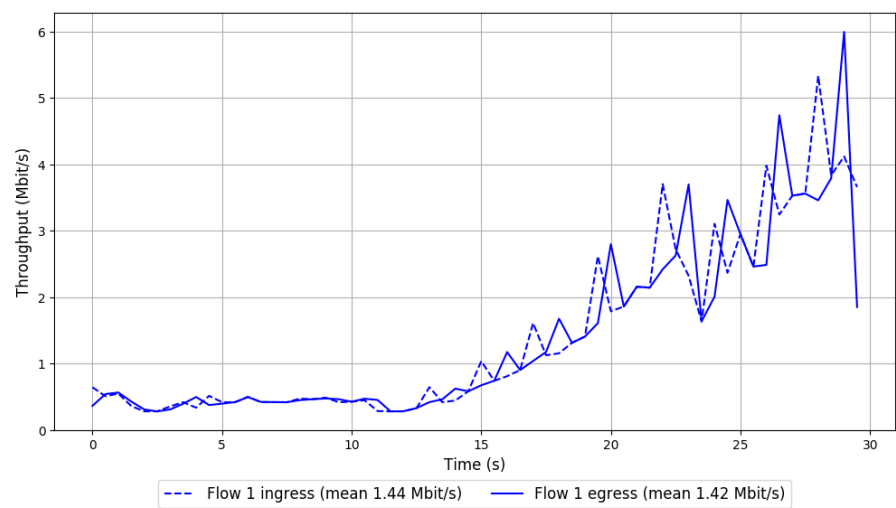
-- Flow 1:

Average throughput: 1.42 Mbit/s

95th percentile per-packet one-way delay: 114.751 ms

Loss rate: 2.16%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-02-27 06:46:16

End at: 2018-02-27 06:46:46

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 88.770 ms

Loss rate: 0.70%

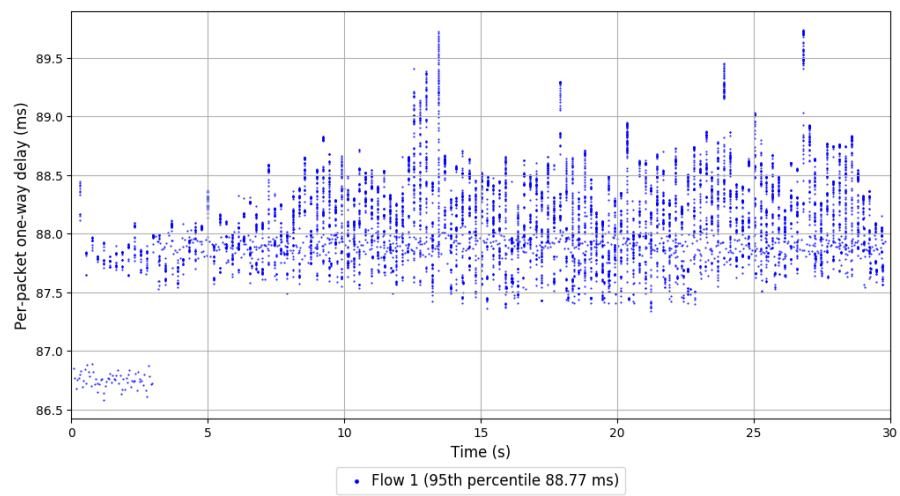
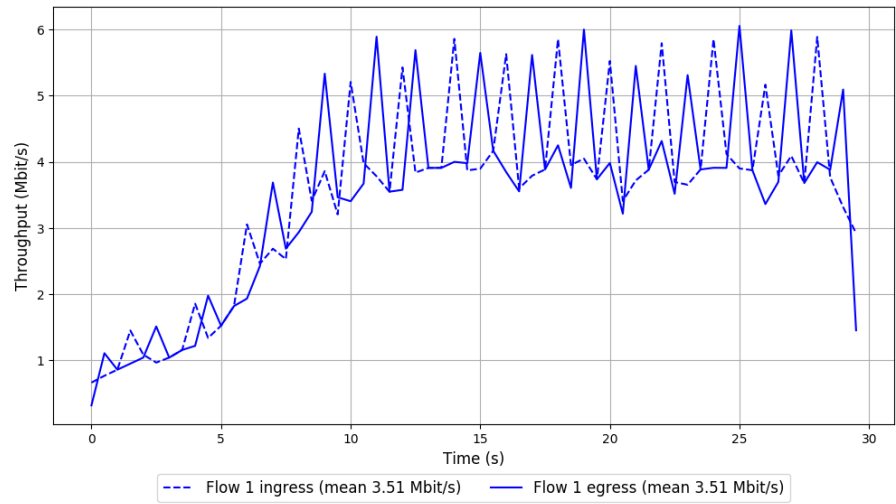
-- Flow 1:

Average throughput: 3.51 Mbit/s

95th percentile per-packet one-way delay: 88.770 ms

Loss rate: 0.70%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-02-27 07:01:16

End at: 2018-02-27 07:01:46

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 115.753 ms

Loss rate: 1.40%

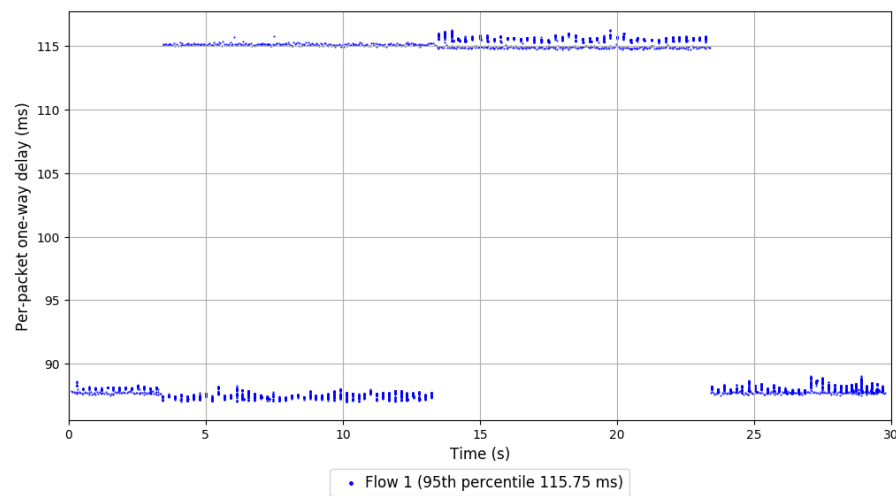
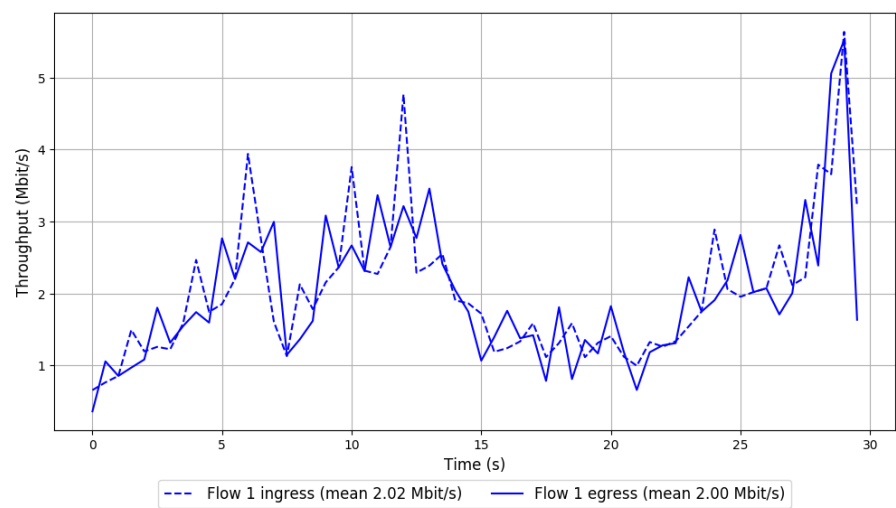
-- Flow 1:

Average throughput: 2.00 Mbit/s

95th percentile per-packet one-way delay: 115.753 ms

Loss rate: 1.40%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-02-27 07:16:32

End at: 2018-02-27 07:17:02

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 88.448 ms

Loss rate: 0.93%

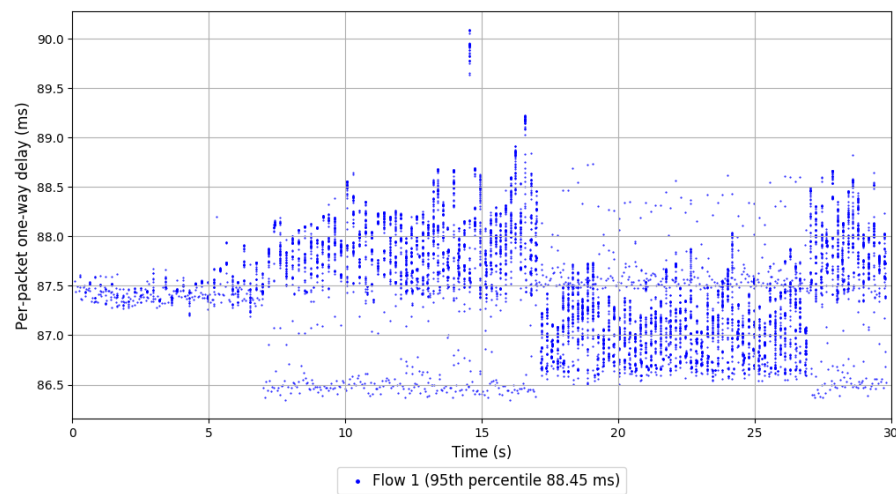
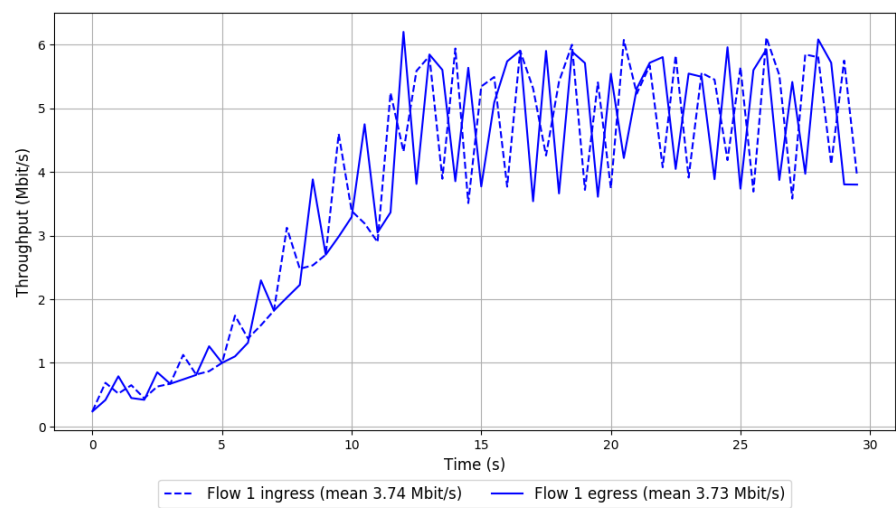
-- Flow 1:

Average throughput: 3.73 Mbit/s

95th percentile per-packet one-way delay: 88.448 ms

Loss rate: 0.93%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-02-27 07:31:52

End at: 2018-02-27 07:32:22

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 88.270 ms

Loss rate: 0.91%

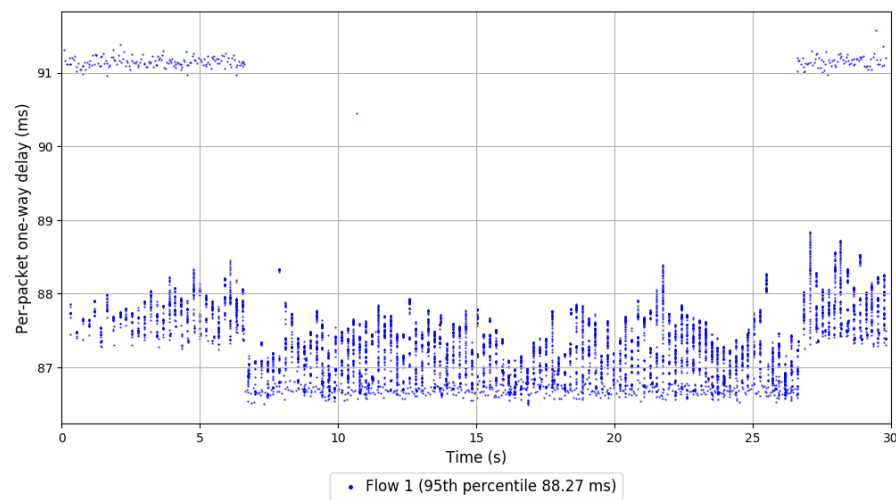
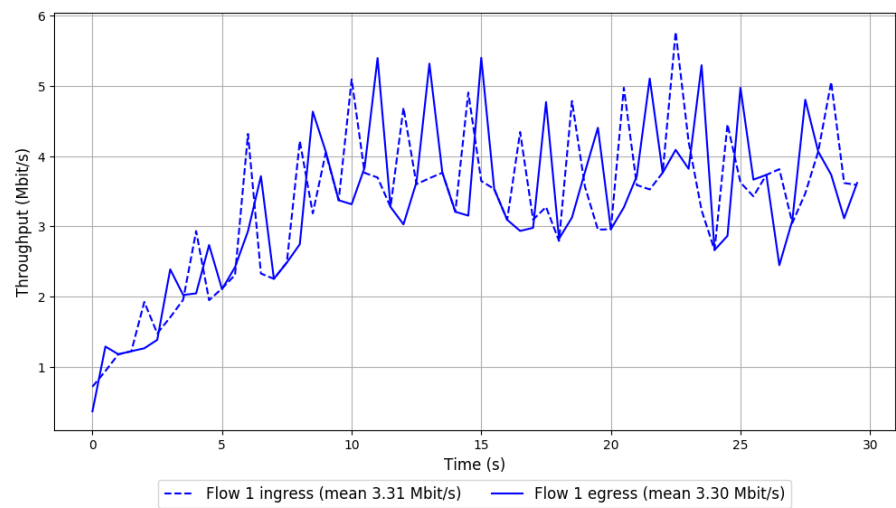
-- Flow 1:

Average throughput: 3.30 Mbit/s

95th percentile per-packet one-way delay: 88.270 ms

Loss rate: 0.91%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-02-27 07:47:34

End at: 2018-02-27 07:48:04

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 88.409 ms

Loss rate: 0.79%

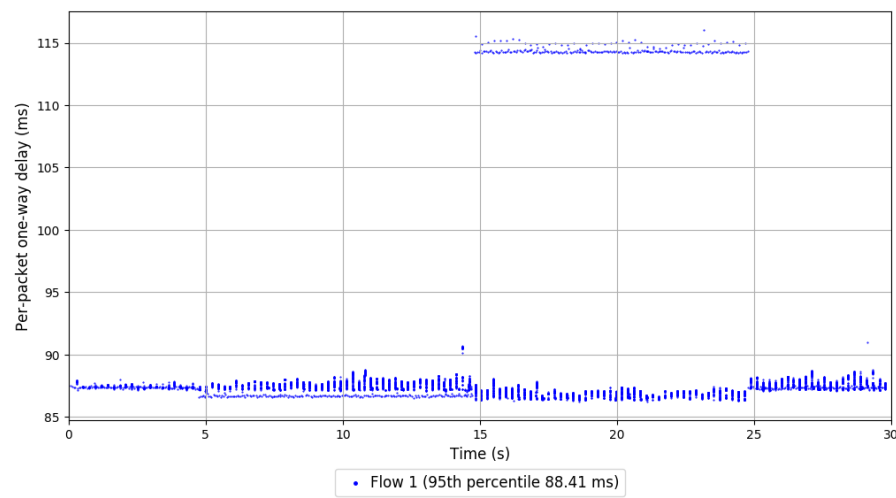
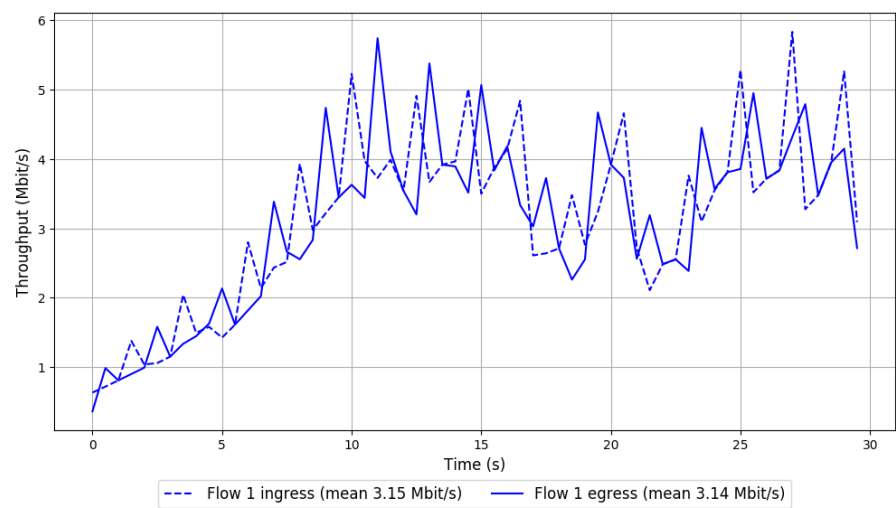
-- Flow 1:

Average throughput: 3.14 Mbit/s

95th percentile per-packet one-way delay: 88.409 ms

Loss rate: 0.79%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-02-27 08:02:43

End at: 2018-02-27 08:03:13

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 87.998 ms

Loss rate: 0.58%

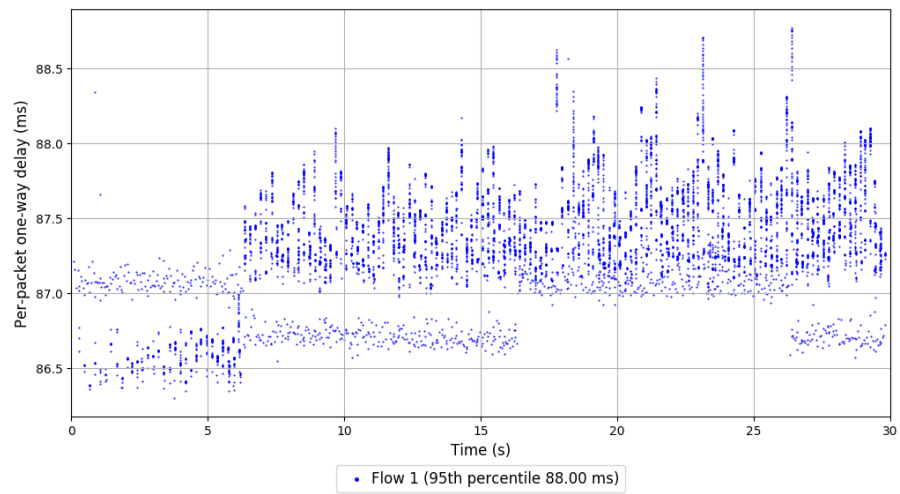
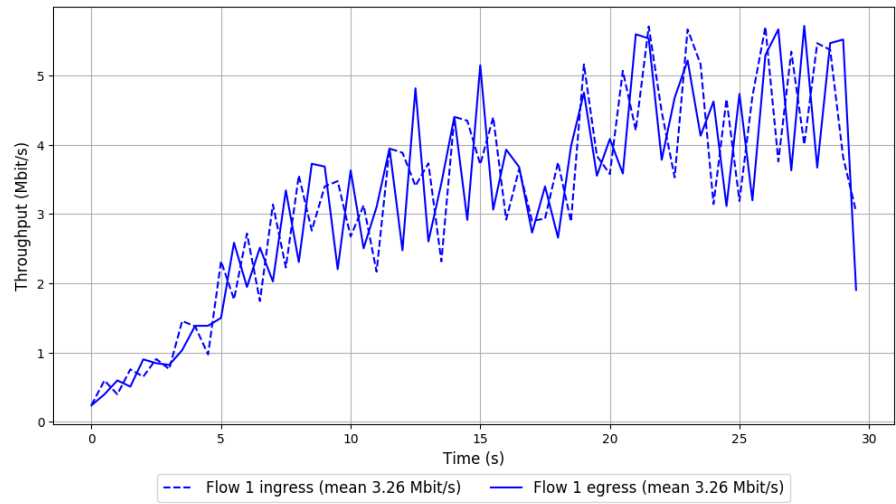
-- Flow 1:

Average throughput: 3.26 Mbit/s

95th percentile per-packet one-way delay: 87.998 ms

Loss rate: 0.58%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-02-27 08:17:45

End at: 2018-02-27 08:18:15

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 88.693 ms

Loss rate: 1.10%

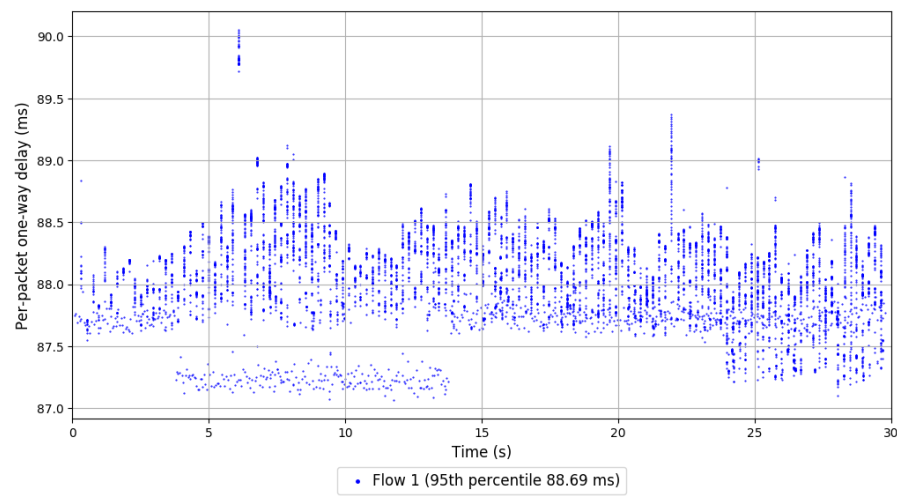
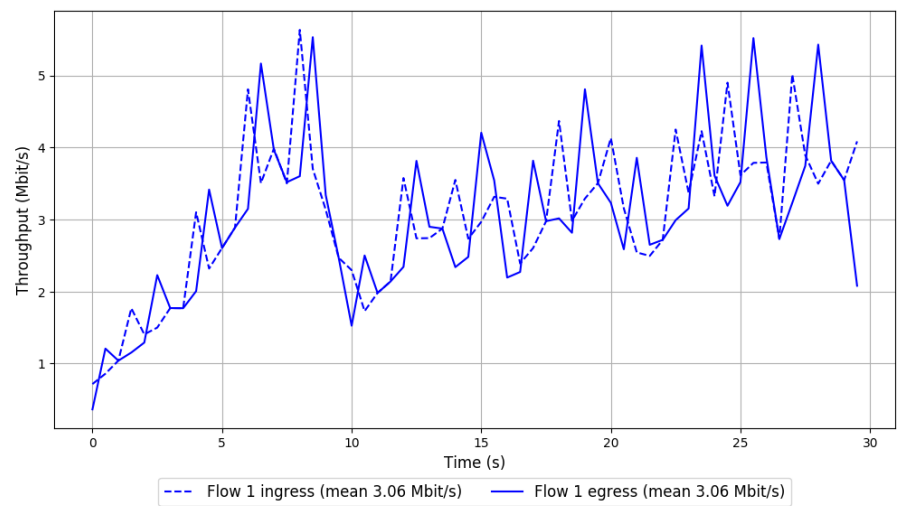
-- Flow 1:

Average throughput: 3.06 Mbit/s

95th percentile per-packet one-way delay: 88.693 ms

Loss rate: 1.10%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-02-27 08:33:05

End at: 2018-02-27 08:33:35

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 89.239 ms

Loss rate: 0.93%

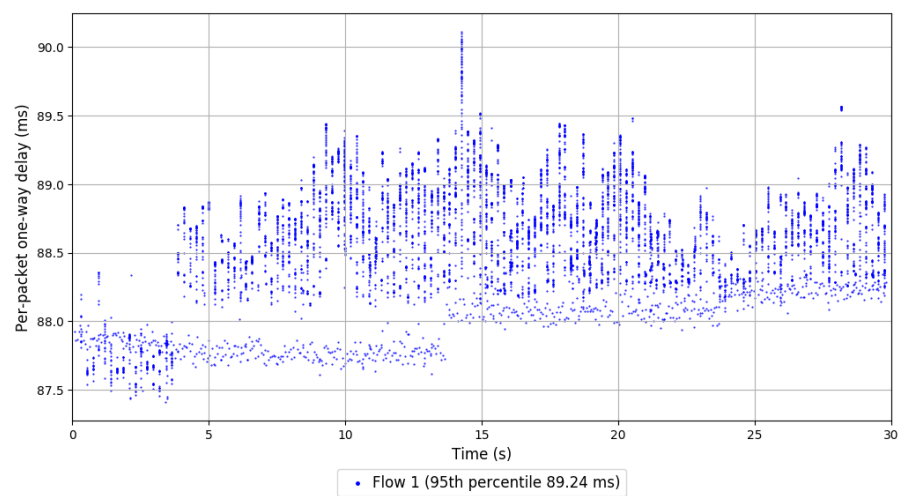
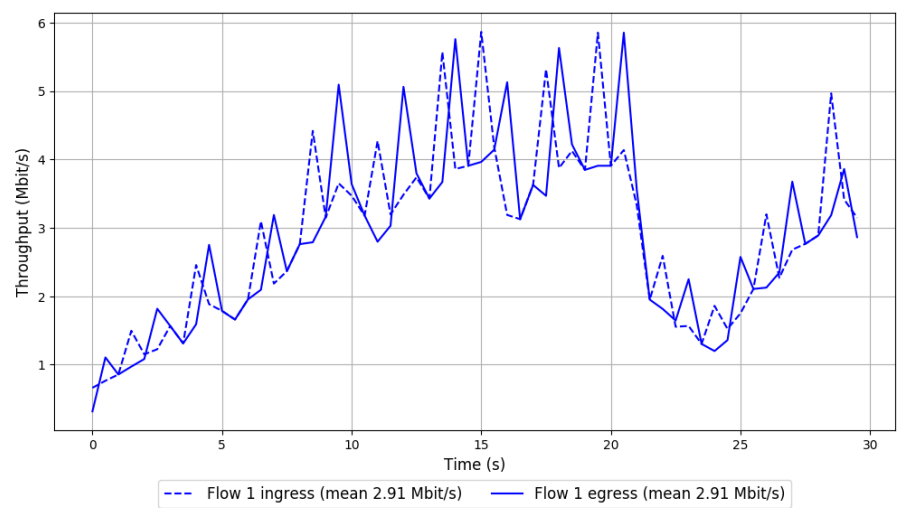
-- Flow 1:

Average throughput: 2.91 Mbit/s

95th percentile per-packet one-way delay: 89.239 ms

Loss rate: 0.93%

Run 10: Report of Sprout — Data Link

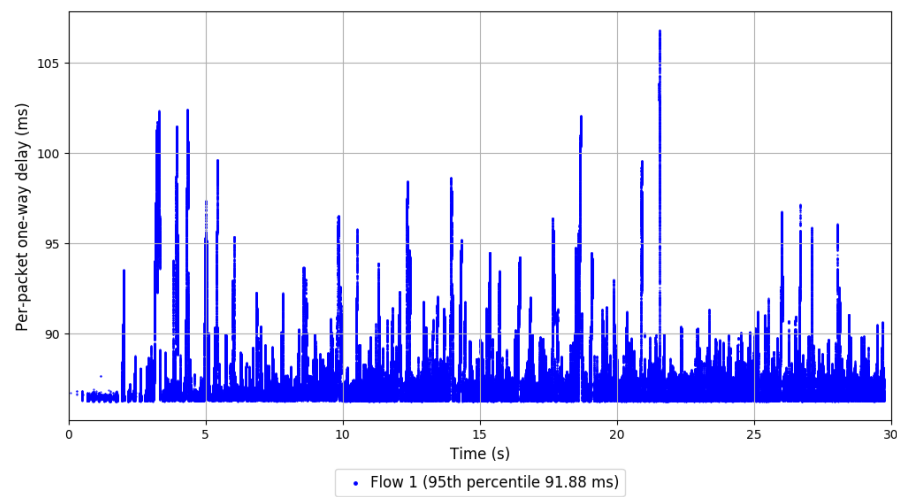
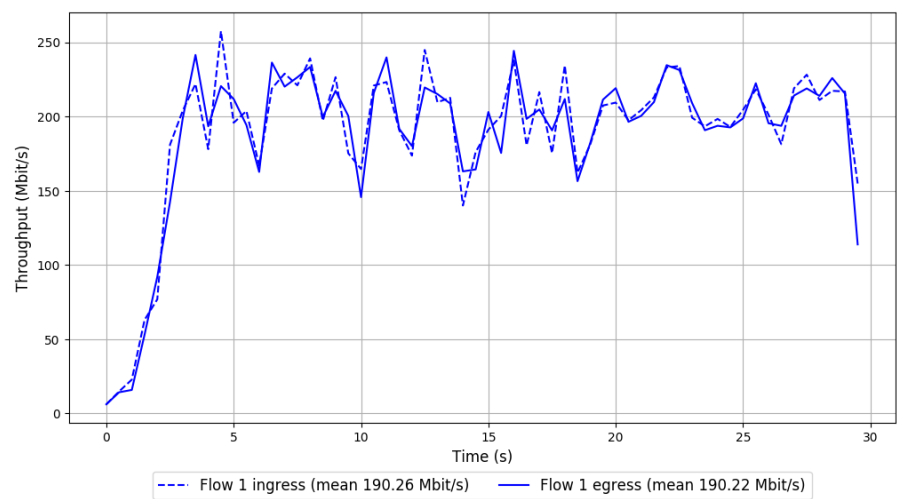


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-02-27 06:08:04
End at: 2018-02-27 06:08:34

# Below is generated by plot.py at 2018-02-27 11:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 190.22 Mbit/s
95th percentile per-packet one-way delay: 91.877 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 190.22 Mbit/s
95th percentile per-packet one-way delay: 91.877 ms
Loss rate: 0.68%
```


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

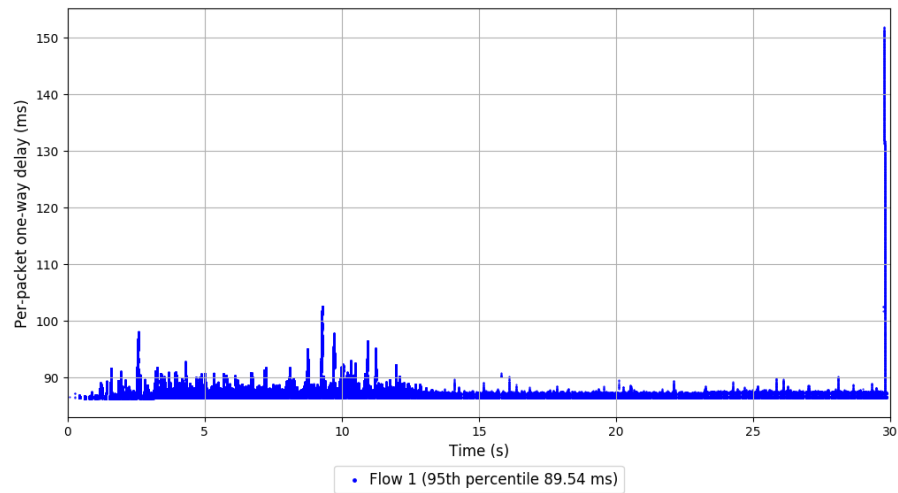
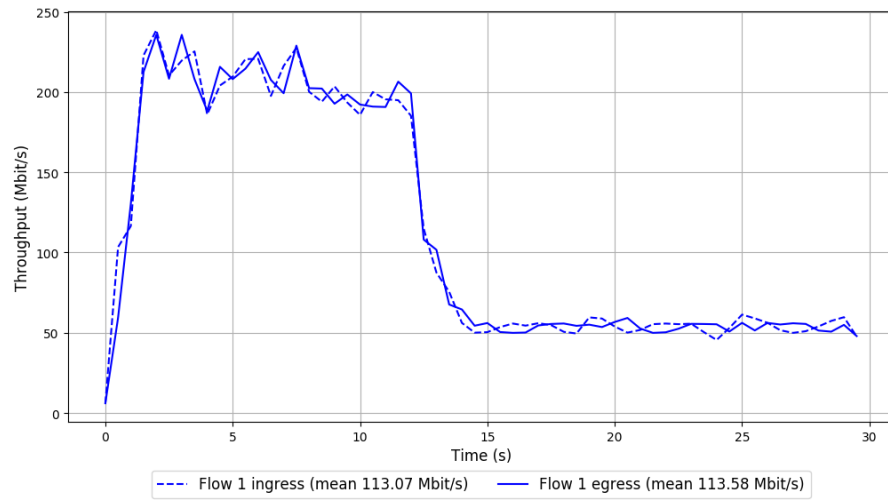


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-02-27 06:23:21
End at: 2018-02-27 06:23:51

# Below is generated by plot.py at 2018-02-27 11:49:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 113.58 Mbit/s
95th percentile per-packet one-way delay: 89.537 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 113.58 Mbit/s
95th percentile per-packet one-way delay: 89.537 ms
Loss rate: 0.23%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-02-27 06:38:42

End at: 2018-02-27 06:39:12

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.39 Mbit/s

95th percentile per-packet one-way delay: 92.325 ms

Loss rate: 0.80%

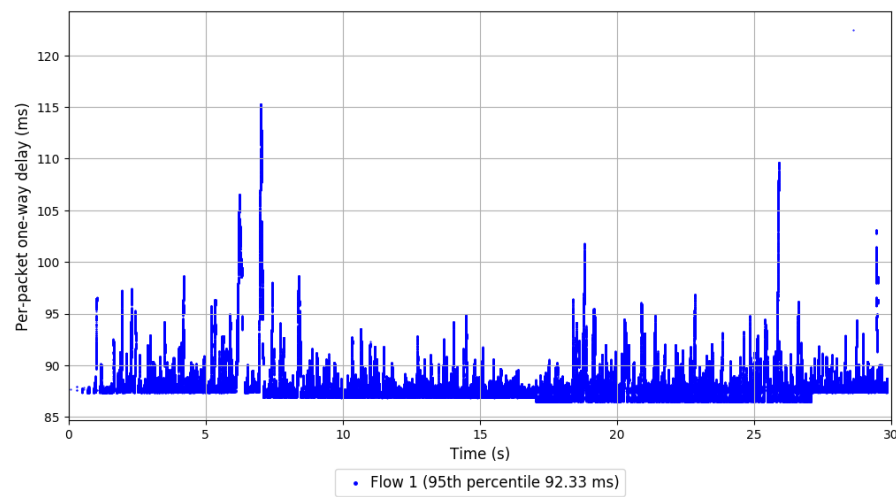
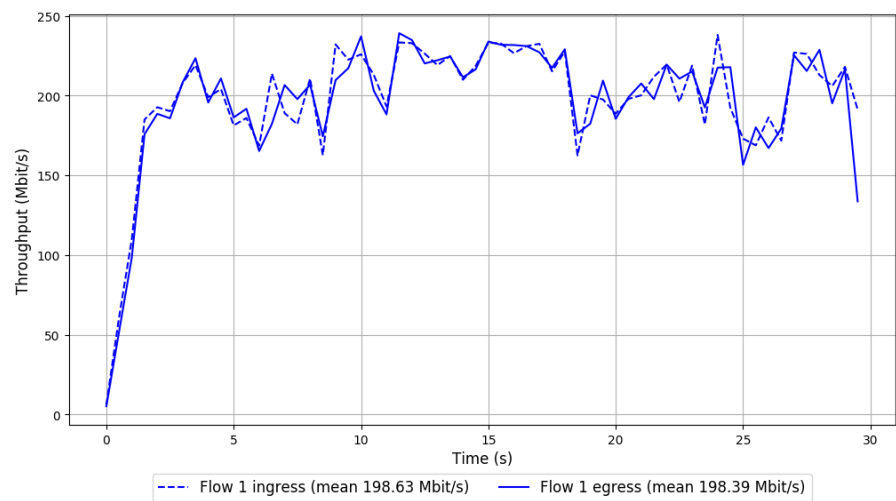
-- Flow 1:

Average throughput: 198.39 Mbit/s

95th percentile per-packet one-way delay: 92.325 ms

Loss rate: 0.80%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-02-27 06:53:56

End at: 2018-02-27 06:54:26

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 100.783 ms

Loss rate: 0.04%

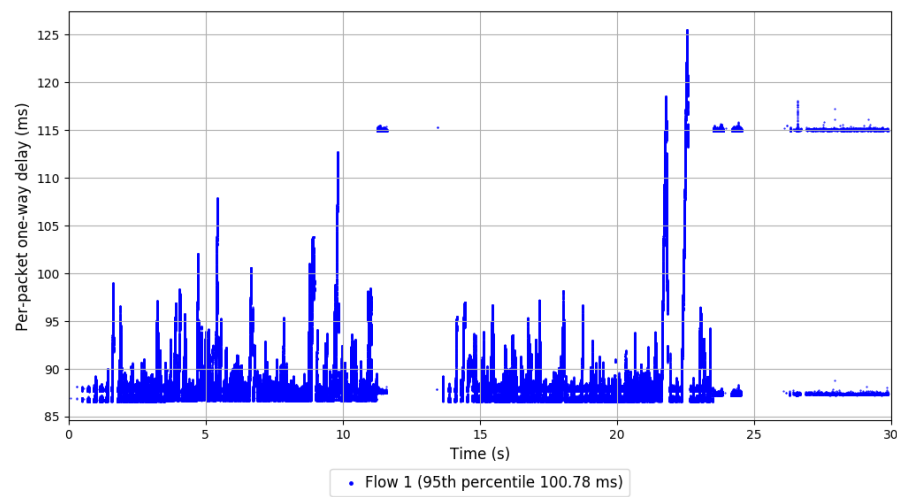
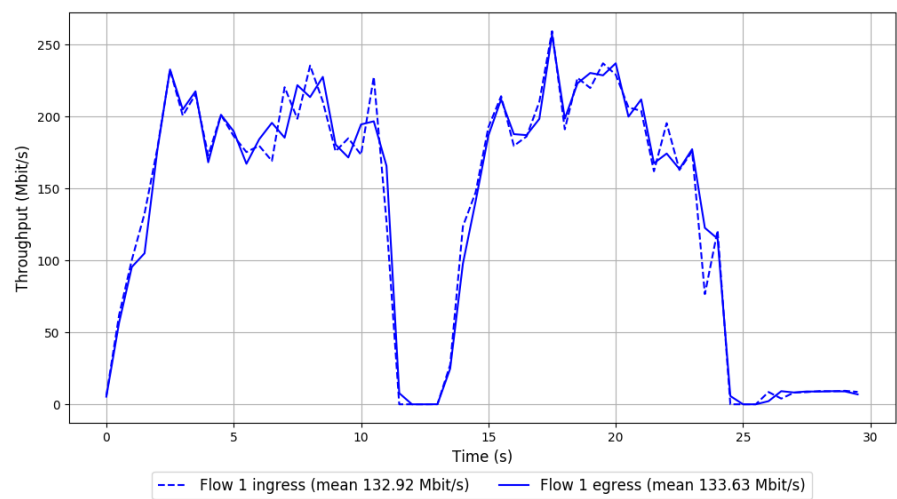
-- Flow 1:

Average throughput: 133.63 Mbit/s

95th percentile per-packet one-way delay: 100.783 ms

Loss rate: 0.04%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-02-27 07:09:00

End at: 2018-02-27 07:09:30

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 104.57 Mbit/s

95th percentile per-packet one-way delay: 96.289 ms

Loss rate: 0.23%

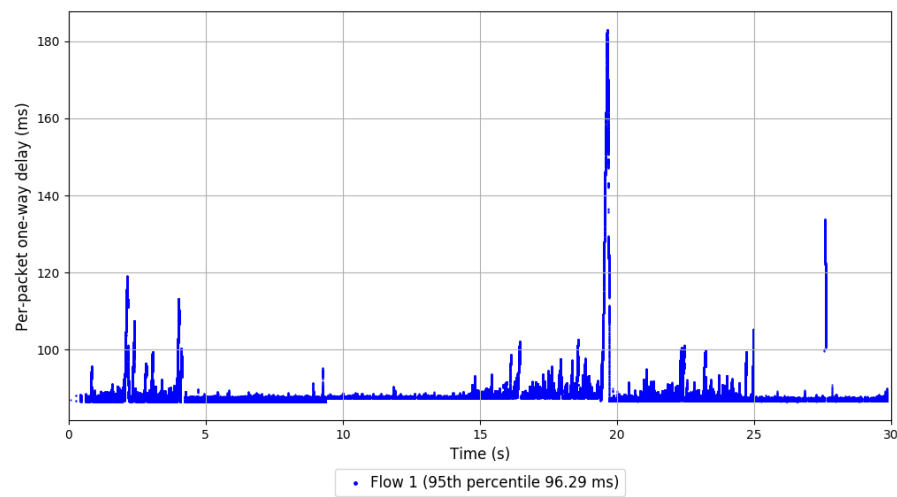
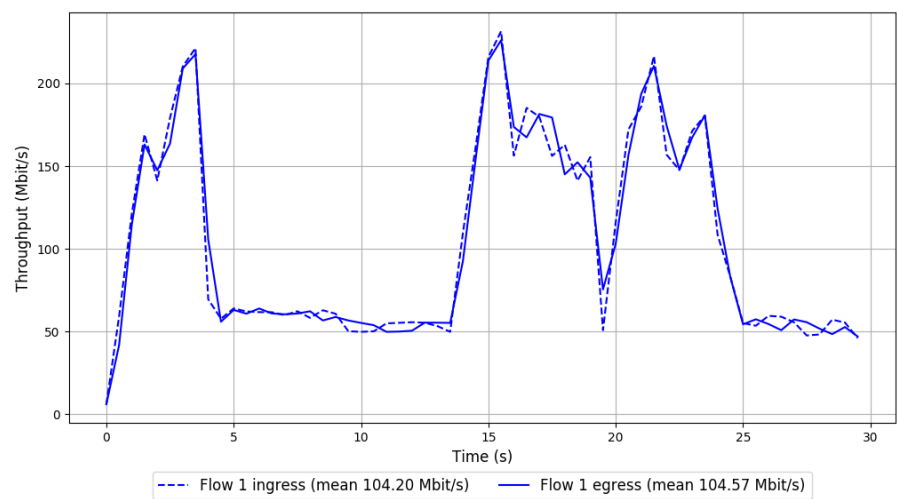
-- Flow 1:

Average throughput: 104.57 Mbit/s

95th percentile per-packet one-way delay: 96.289 ms

Loss rate: 0.23%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-02-27 07:24:21

End at: 2018-02-27 07:24:51

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.37 Mbit/s

95th percentile per-packet one-way delay: 91.020 ms

Loss rate: 0.00%

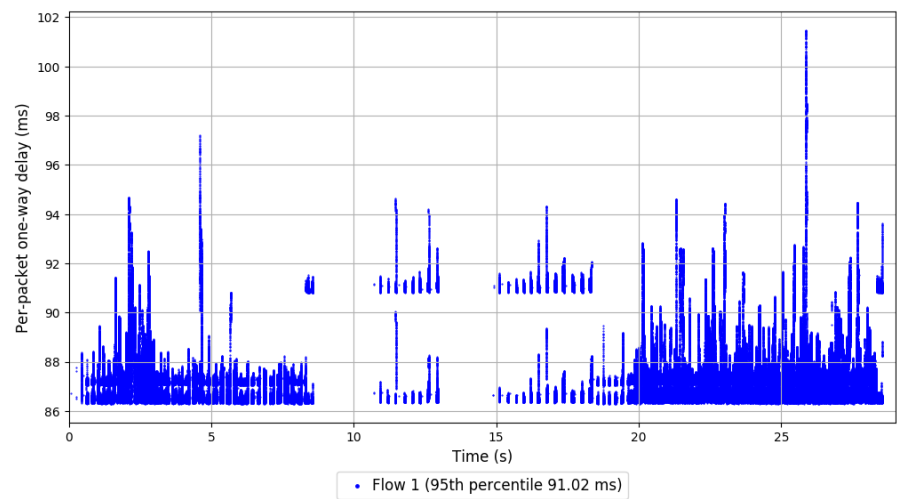
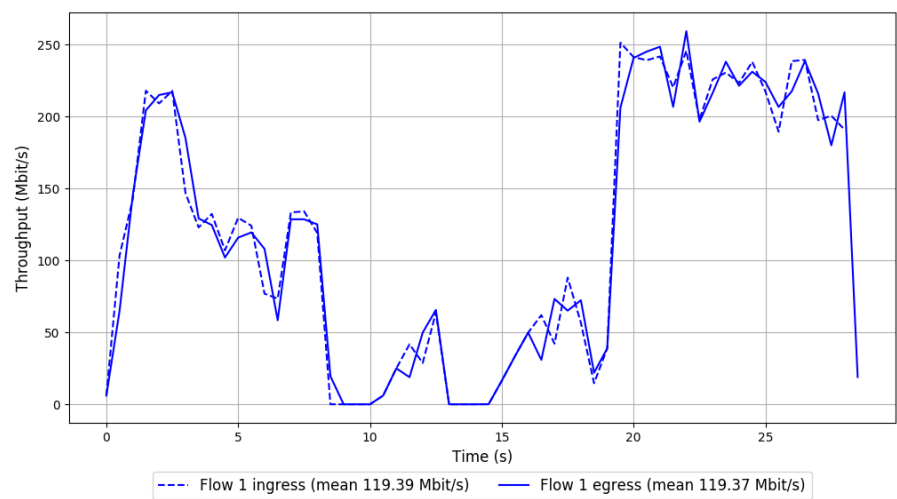
-- Flow 1:

Average throughput: 119.37 Mbit/s

95th percentile per-packet one-way delay: 91.020 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-02-27 07:39:46

End at: 2018-02-27 07:40:16

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 114.285 ms

Loss rate: 0.00%

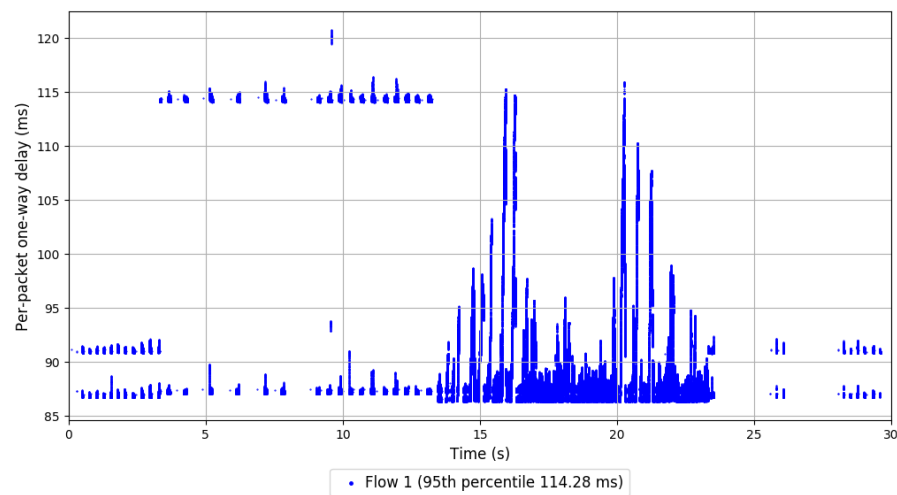
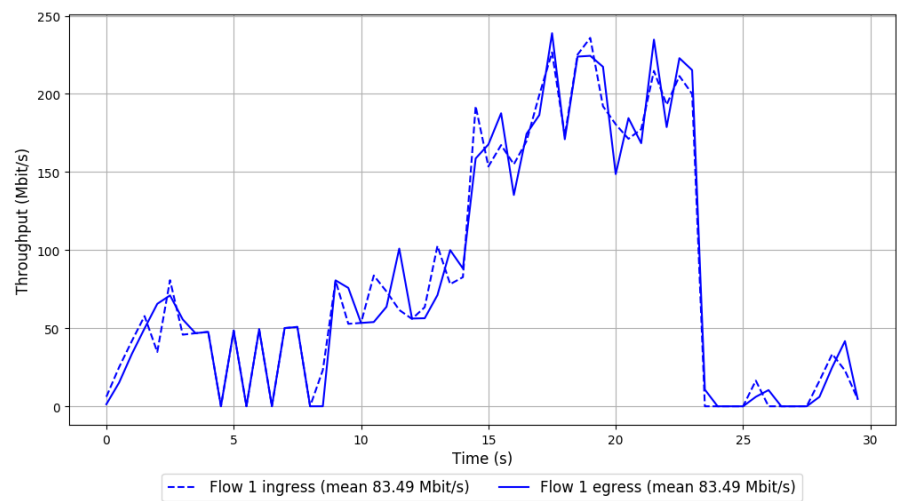
-- Flow 1:

Average throughput: 83.49 Mbit/s

95th percentile per-packet one-way delay: 114.285 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-02-27 07:55:21

End at: 2018-02-27 07:55:51

Below is generated by plot.py at 2018-02-27 11:49:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 90.912 ms

Loss rate: 0.11%

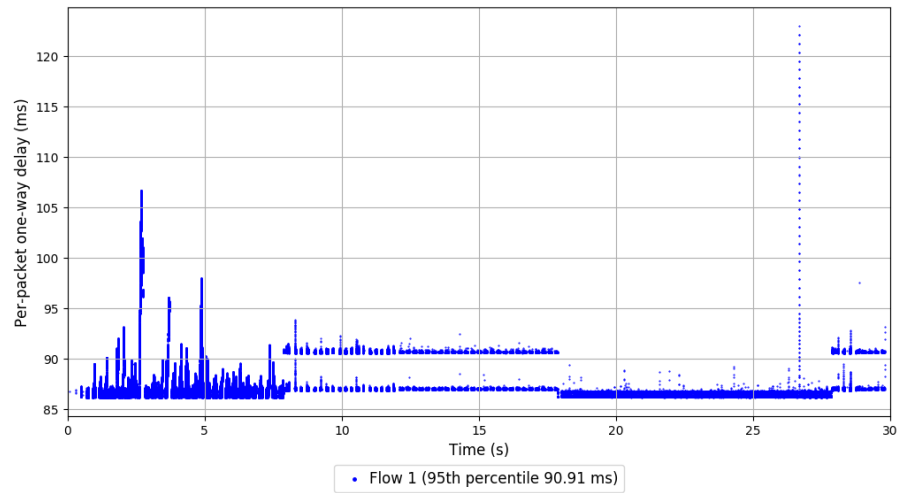
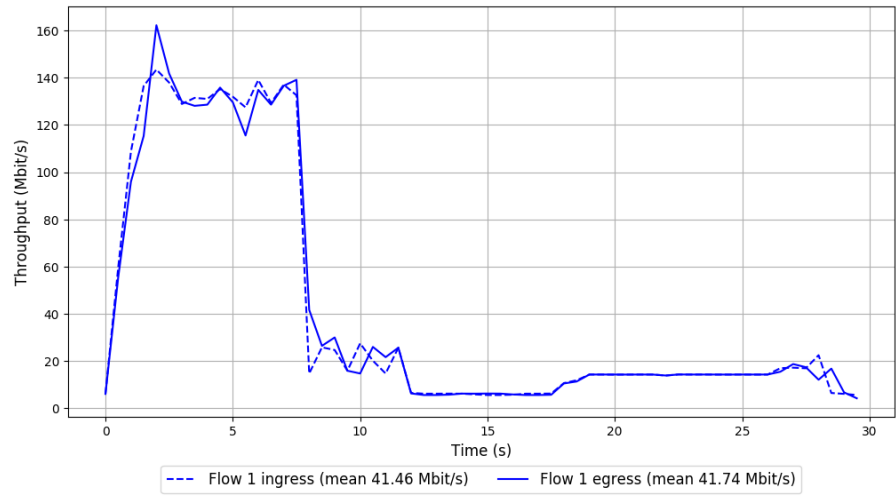
-- Flow 1:

Average throughput: 41.74 Mbit/s

95th percentile per-packet one-way delay: 90.912 ms

Loss rate: 0.11%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-02-27 08:10:30

End at: 2018-02-27 08:11:00

Below is generated by plot.py at 2018-02-27 11:49:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.96 Mbit/s

95th percentile per-packet one-way delay: 91.435 ms

Loss rate: 0.29%

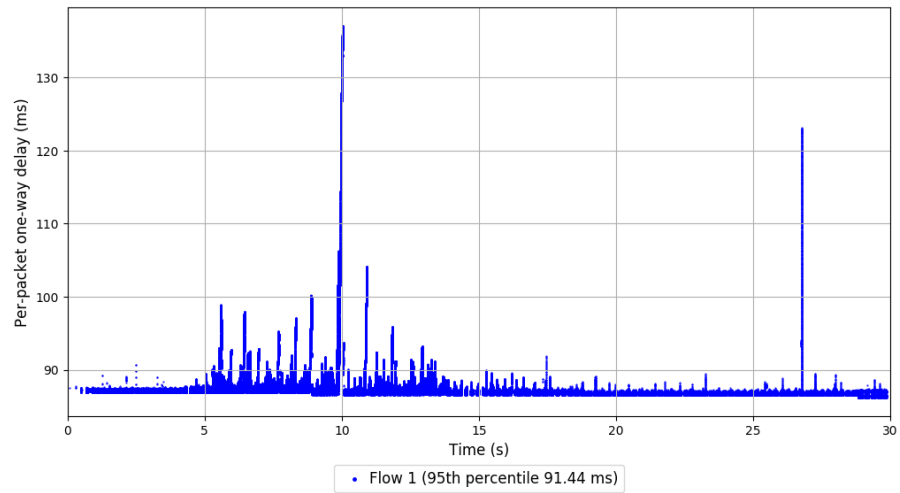
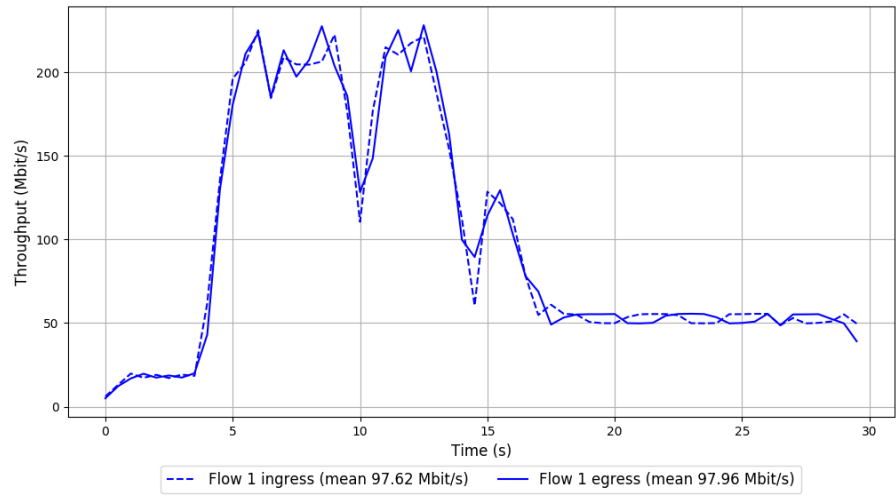
-- Flow 1:

Average throughput: 97.96 Mbit/s

95th percentile per-packet one-way delay: 91.435 ms

Loss rate: 0.29%

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

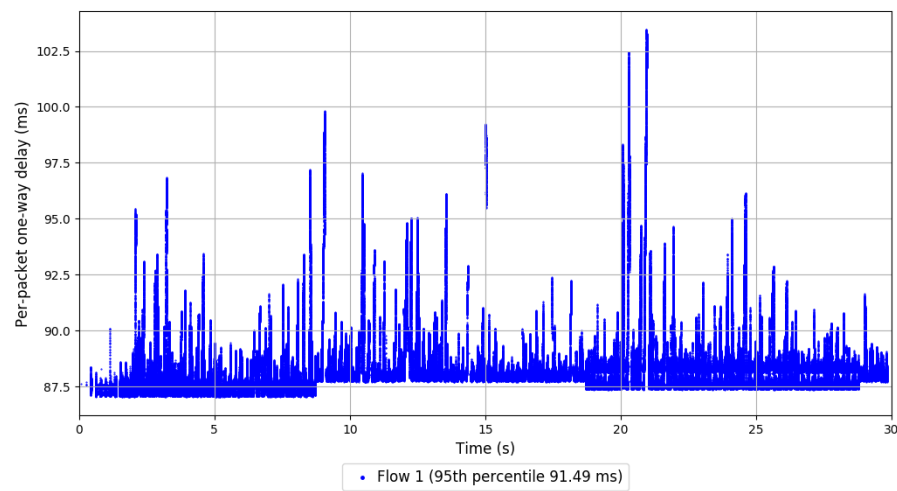
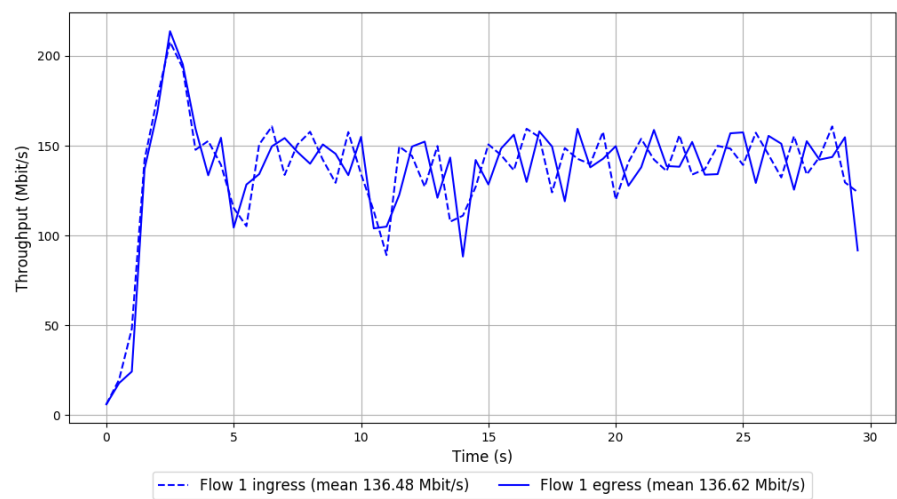


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-02-27 08:25:40
End at: 2018-02-27 08:26:10

# Below is generated by plot.py at 2018-02-27 11:51:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 136.62 Mbit/s
95th percentile per-packet one-way delay: 91.492 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 136.62 Mbit/s
95th percentile per-packet one-way delay: 91.492 ms
Loss rate: 0.57%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-02-27 06:20:39

End at: 2018-02-27 06:21:09

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 115.802 ms

Loss rate: 0.70%

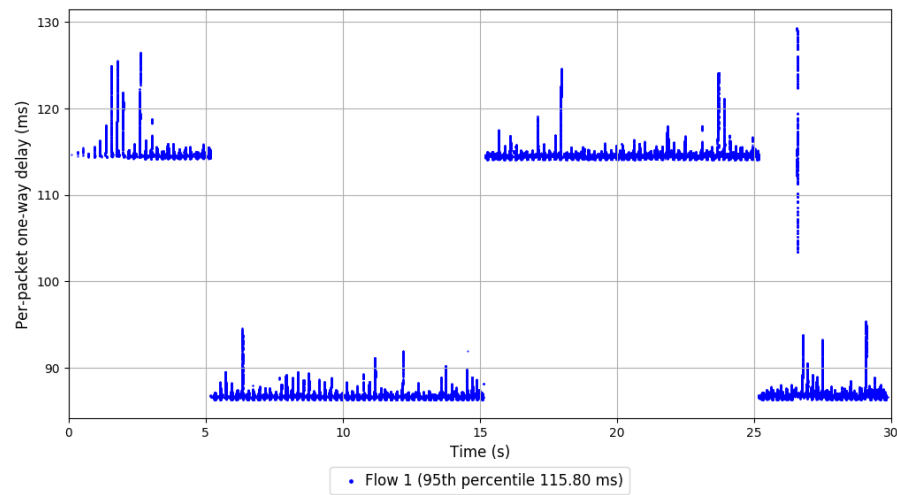
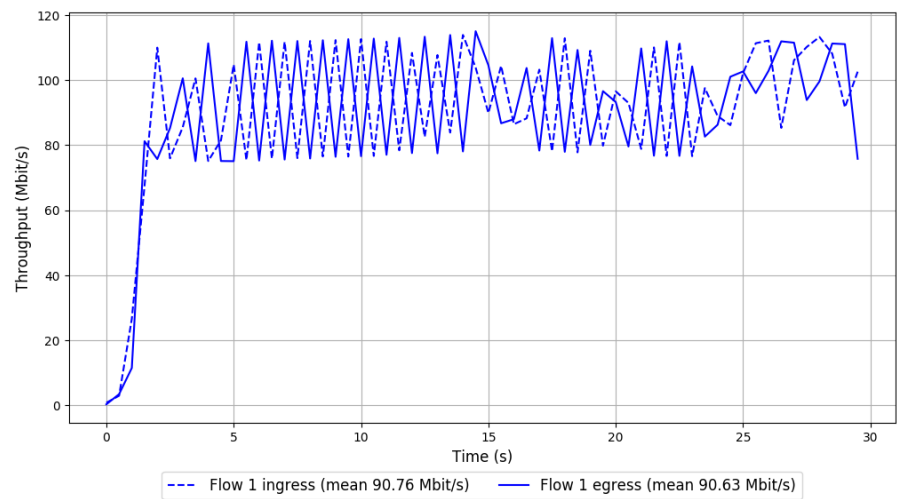
-- Flow 1:

Average throughput: 90.63 Mbit/s

95th percentile per-packet one-way delay: 115.802 ms

Loss rate: 0.70%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-02-27 06:36:02

End at: 2018-02-27 06:36:32

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 124.817 ms

Loss rate: 0.53%

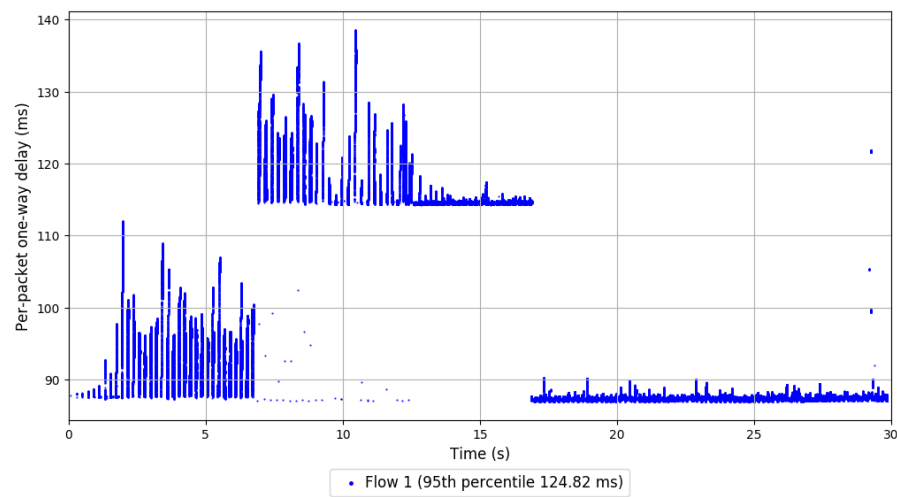
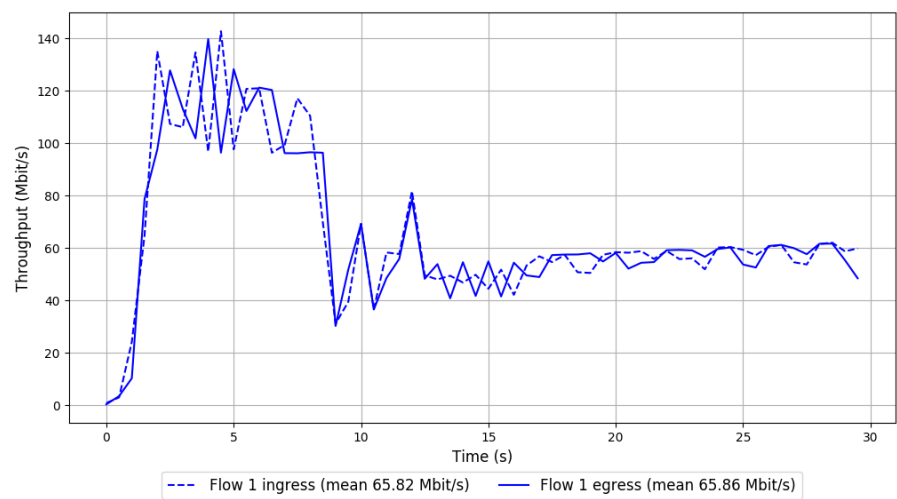
-- Flow 1:

Average throughput: 65.86 Mbit/s

95th percentile per-packet one-way delay: 124.817 ms

Loss rate: 0.53%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-02-27 06:51:21

End at: 2018-02-27 06:51:51

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 90.430 ms

Loss rate: 0.59%

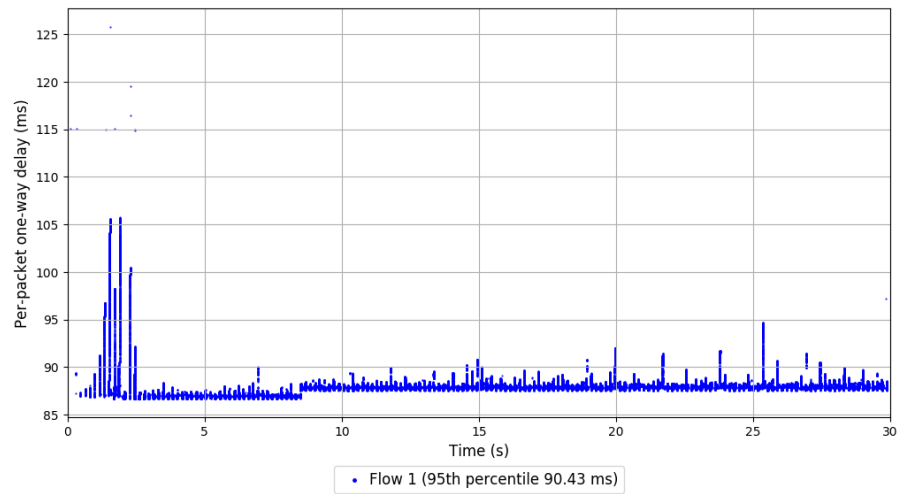
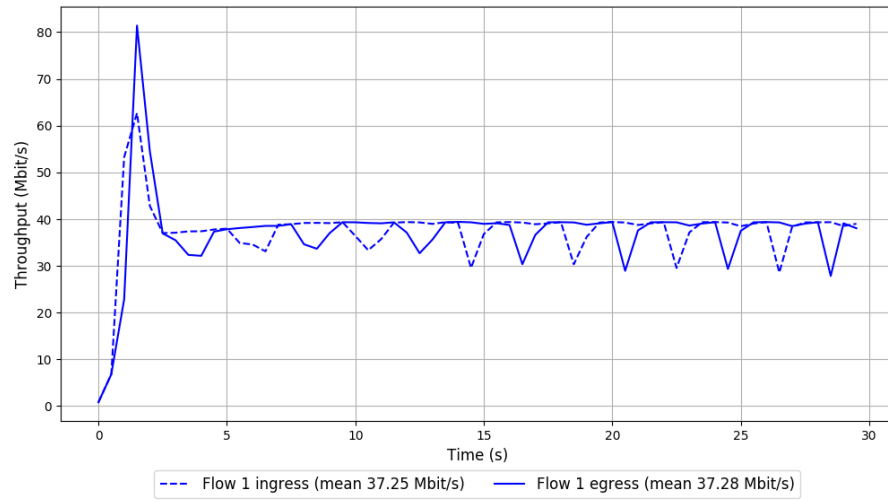
-- Flow 1:

Average throughput: 37.28 Mbit/s

95th percentile per-packet one-way delay: 90.430 ms

Loss rate: 0.59%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-02-27 07:06:21

End at: 2018-02-27 07:06:51

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 95.981 ms

Loss rate: 0.66%

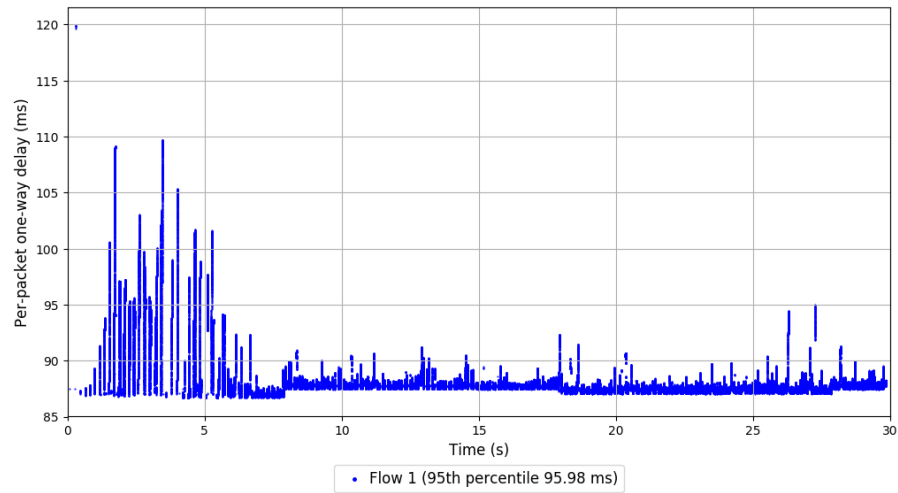
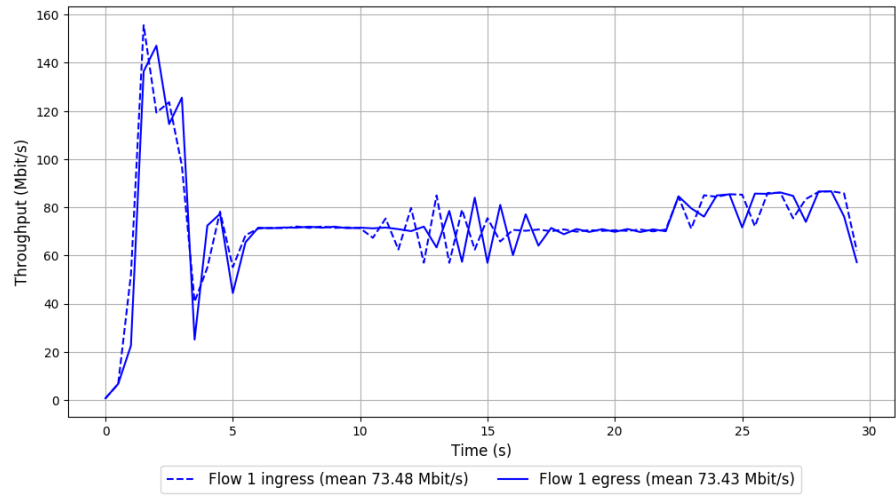
-- Flow 1:

Average throughput: 73.43 Mbit/s

95th percentile per-packet one-way delay: 95.981 ms

Loss rate: 0.66%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-02-27 07:21:41

End at: 2018-02-27 07:22:11

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.26 Mbit/s

95th percentile per-packet one-way delay: 100.927 ms

Loss rate: 0.62%

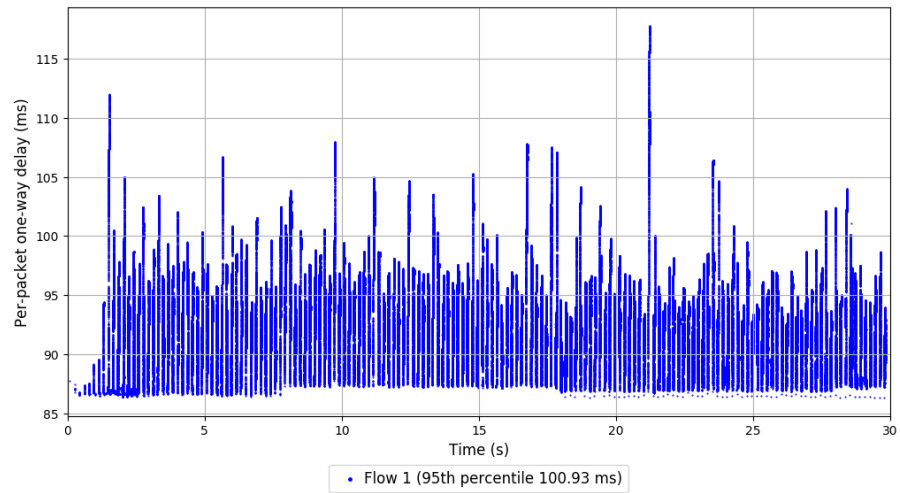
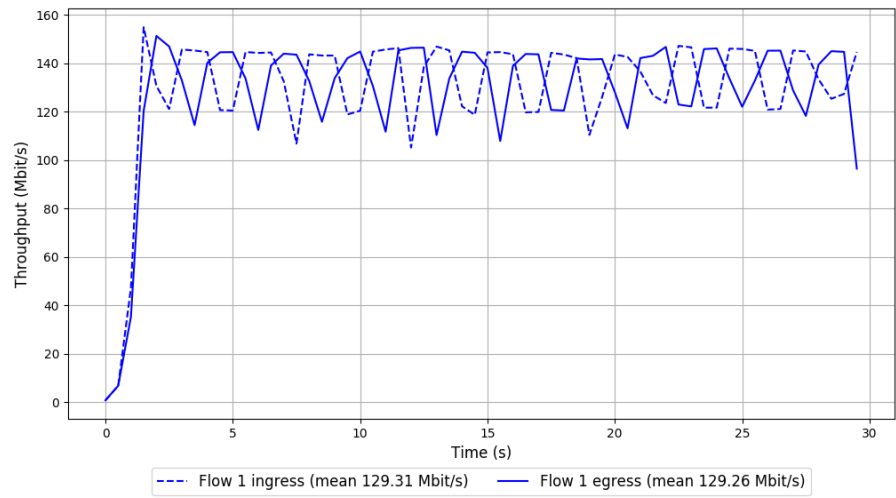
-- Flow 1:

Average throughput: 129.26 Mbit/s

95th percentile per-packet one-way delay: 100.927 ms

Loss rate: 0.62%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-02-27 07:37:02

End at: 2018-02-27 07:37:32

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.65 Mbit/s

95th percentile per-packet one-way delay: 99.104 ms

Loss rate: 0.74%

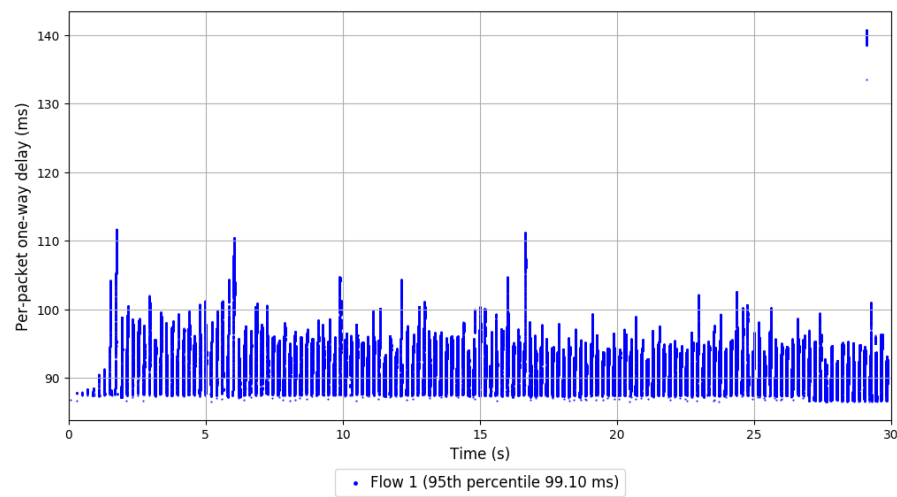
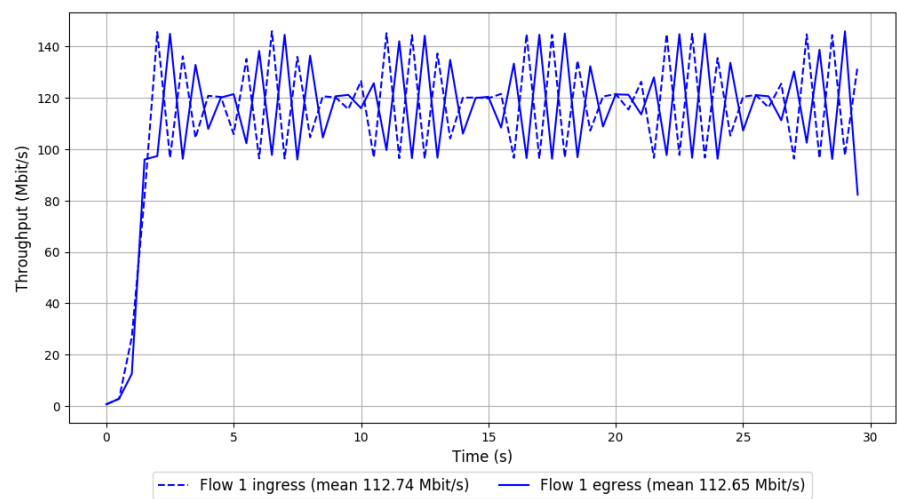
-- Flow 1:

Average throughput: 112.65 Mbit/s

95th percentile per-packet one-way delay: 99.104 ms

Loss rate: 0.74%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-02-27 07:52:40

End at: 2018-02-27 07:53:10

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 115.92 Mbit/s

95th percentile per-packet one-way delay: 97.578 ms

Loss rate: 0.69%

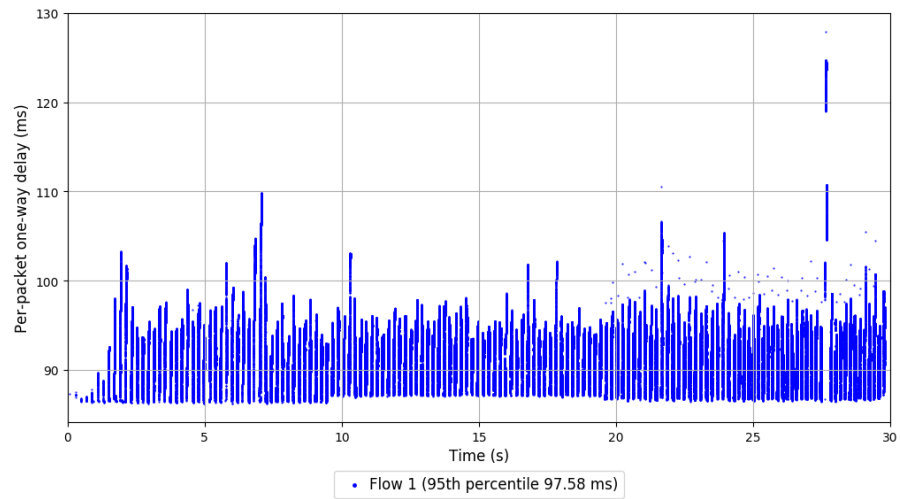
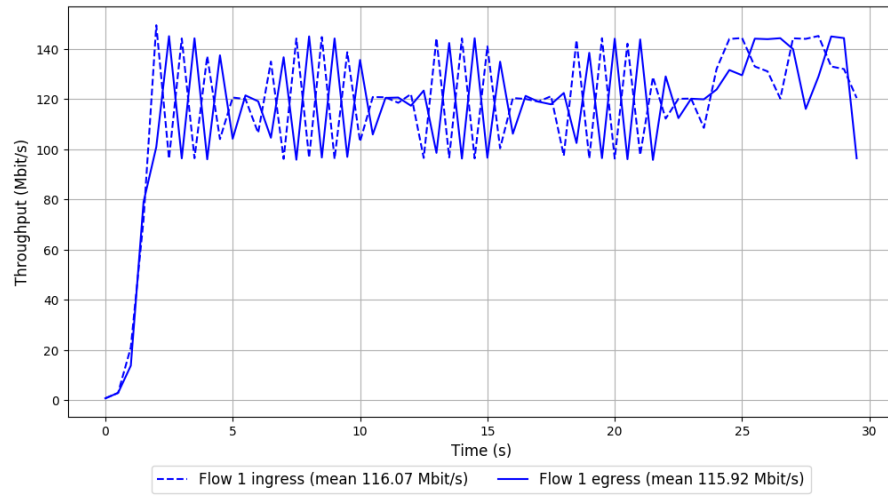
-- Flow 1:

Average throughput: 115.92 Mbit/s

95th percentile per-packet one-way delay: 97.578 ms

Loss rate: 0.69%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-02-27 08:07:48

End at: 2018-02-27 08:08:18

Below is generated by plot.py at 2018-02-27 11:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 89.337 ms

Loss rate: 0.64%

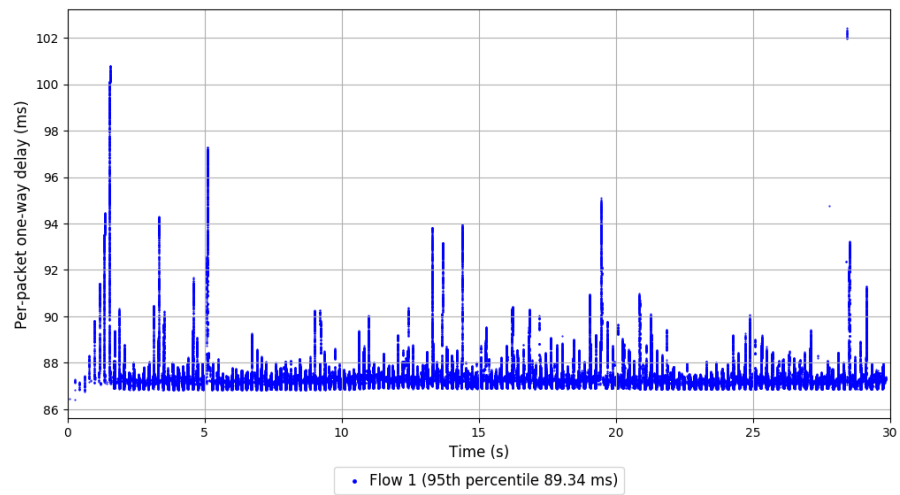
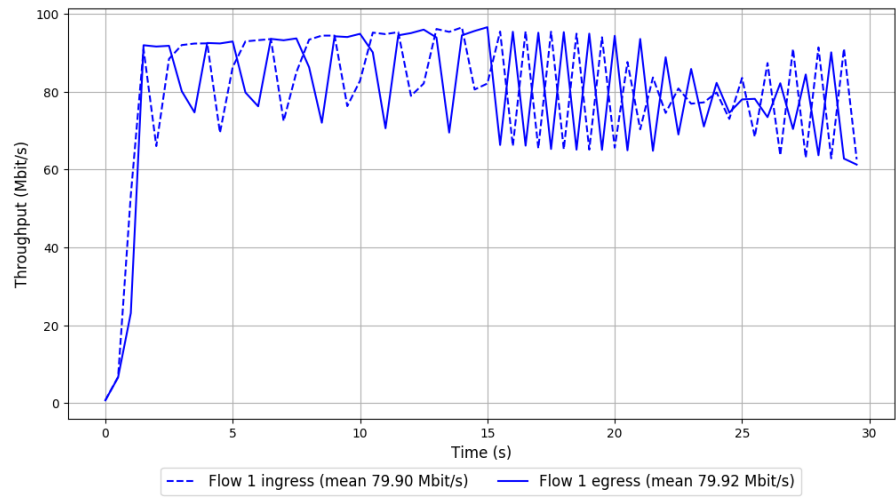
-- Flow 1:

Average throughput: 79.92 Mbit/s

95th percentile per-packet one-way delay: 89.337 ms

Loss rate: 0.64%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-02-27 08:22:54

End at: 2018-02-27 08:23:24

Below is generated by plot.py at 2018-02-27 11:52:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 113.01 Mbit/s

95th percentile per-packet one-way delay: 100.222 ms

Loss rate: 0.72%

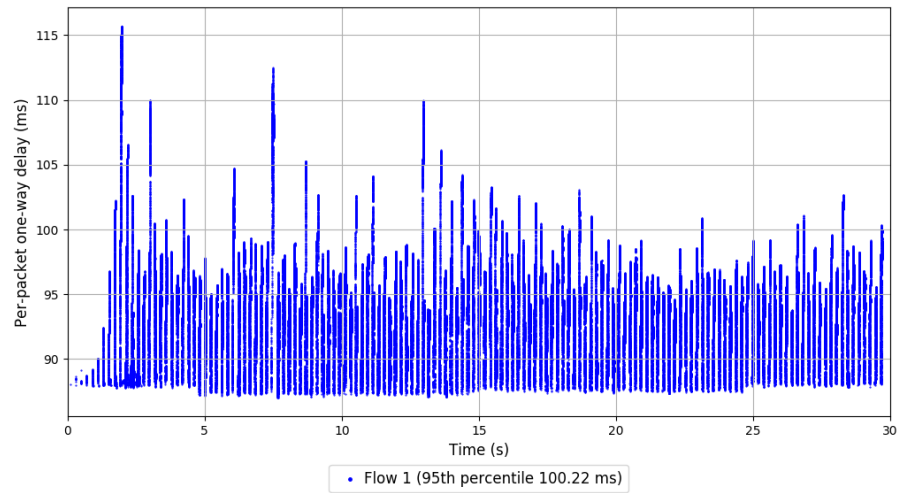
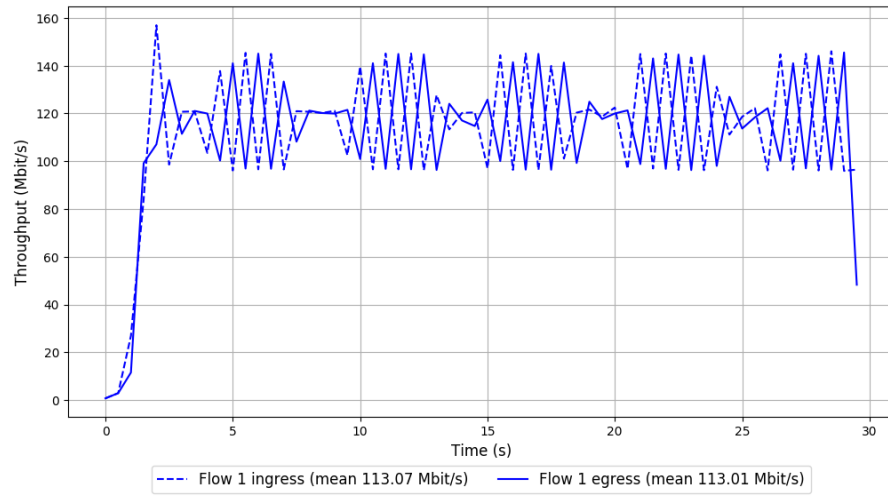
-- Flow 1:

Average throughput: 113.01 Mbit/s

95th percentile per-packet one-way delay: 100.222 ms

Loss rate: 0.72%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-02-27 08:38:07

End at: 2018-02-27 08:38:37

Below is generated by plot.py at 2018-02-27 11:52:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: 98.645 ms

Loss rate: 0.53%

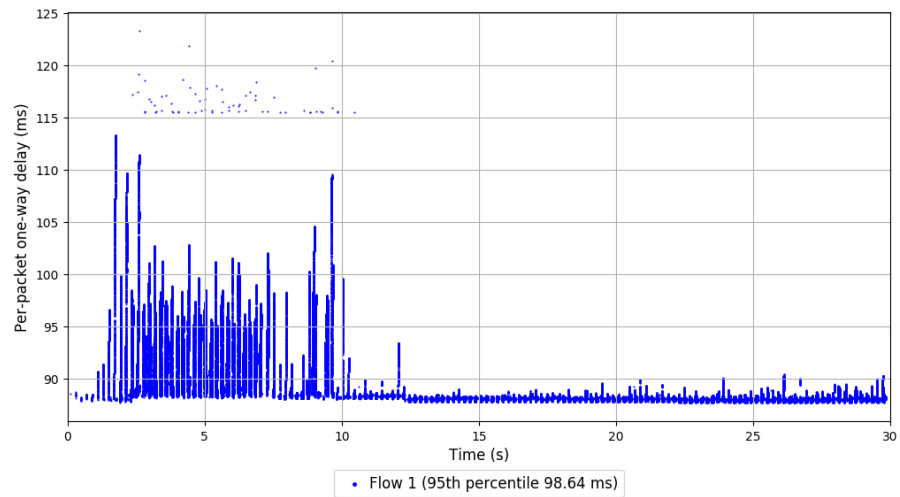
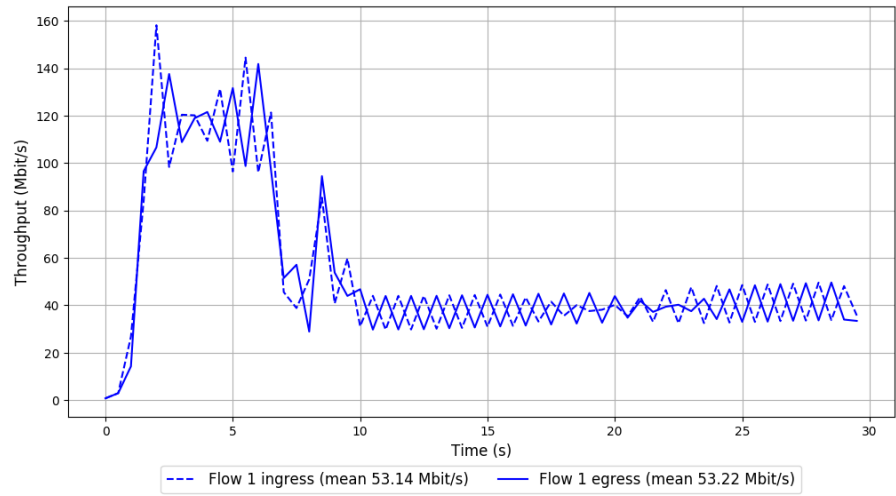
-- Flow 1:

Average throughput: 53.22 Mbit/s

95th percentile per-packet one-way delay: 98.645 ms

Loss rate: 0.53%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-02-27 06:21:26

End at: 2018-02-27 06:21:56

Below is generated by plot.py at 2018-02-27 11:53:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.59 Mbit/s

95th percentile per-packet one-way delay: 181.330 ms

Loss rate: 3.43%

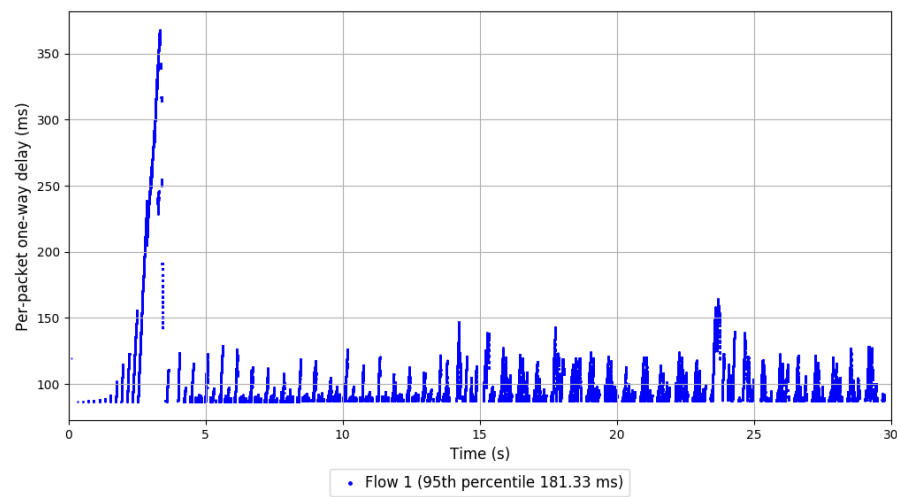
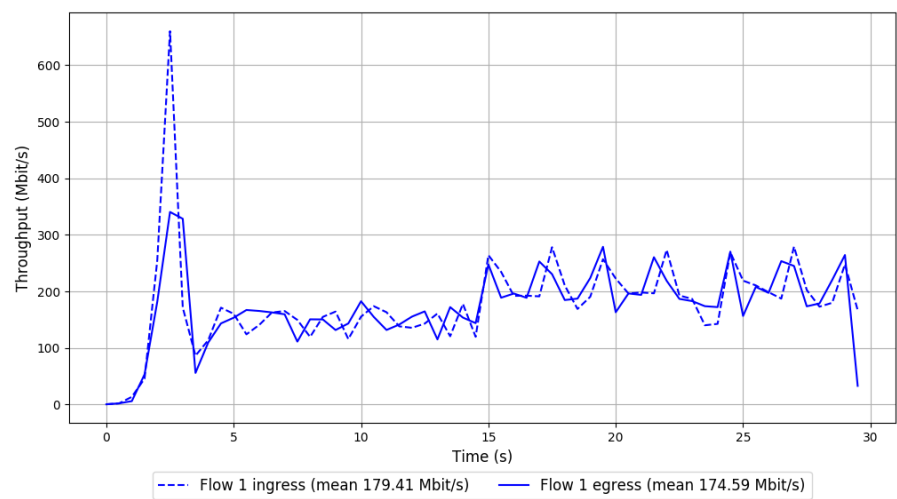
-- Flow 1:

Average throughput: 174.59 Mbit/s

95th percentile per-packet one-way delay: 181.330 ms

Loss rate: 3.43%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-02-27 06:36:46

End at: 2018-02-27 06:37:16

Below is generated by plot.py at 2018-02-27 11:55:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.16 Mbit/s

95th percentile per-packet one-way delay: 172.090 ms

Loss rate: 4.01%

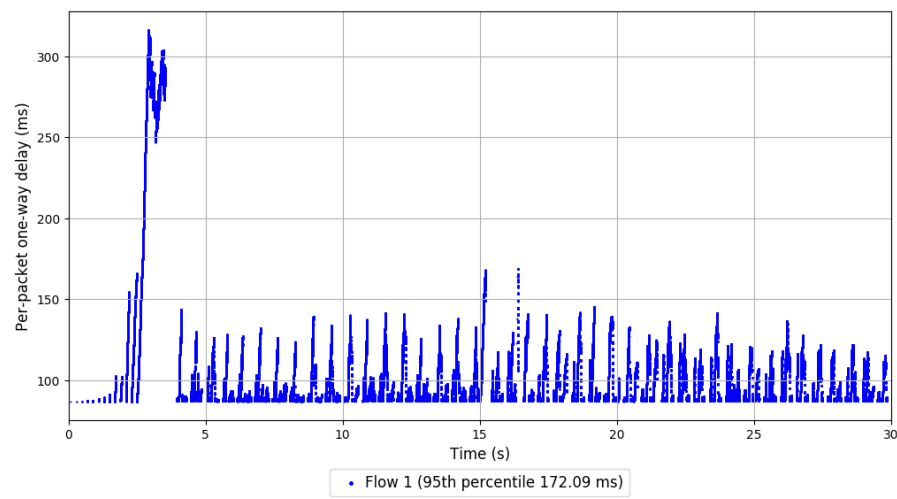
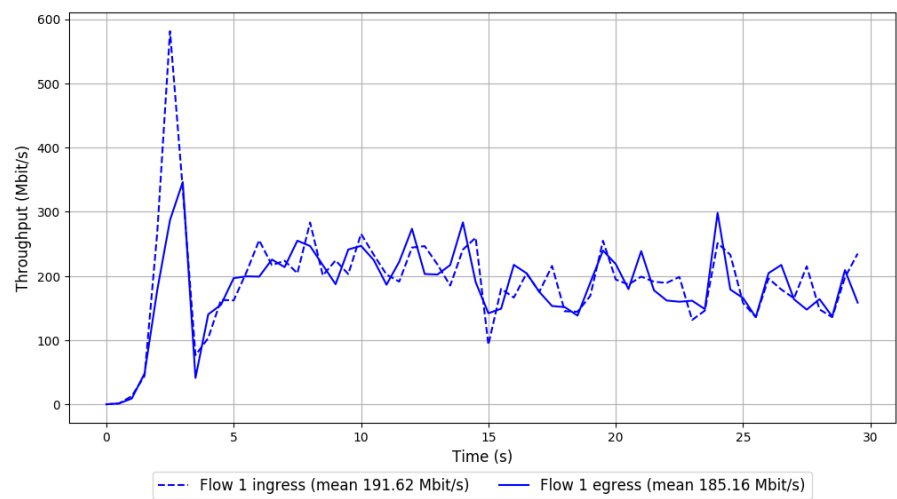
-- Flow 1:

Average throughput: 185.16 Mbit/s

95th percentile per-packet one-way delay: 172.090 ms

Loss rate: 4.01%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-02-27 06:52:02

End at: 2018-02-27 06:52:32

Below is generated by plot.py at 2018-02-27 11:55:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 206.889 ms

Loss rate: 2.54%

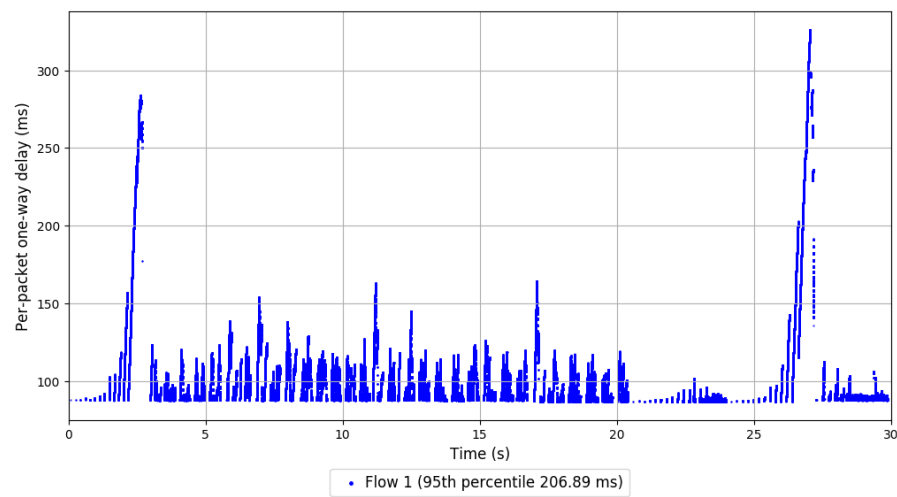
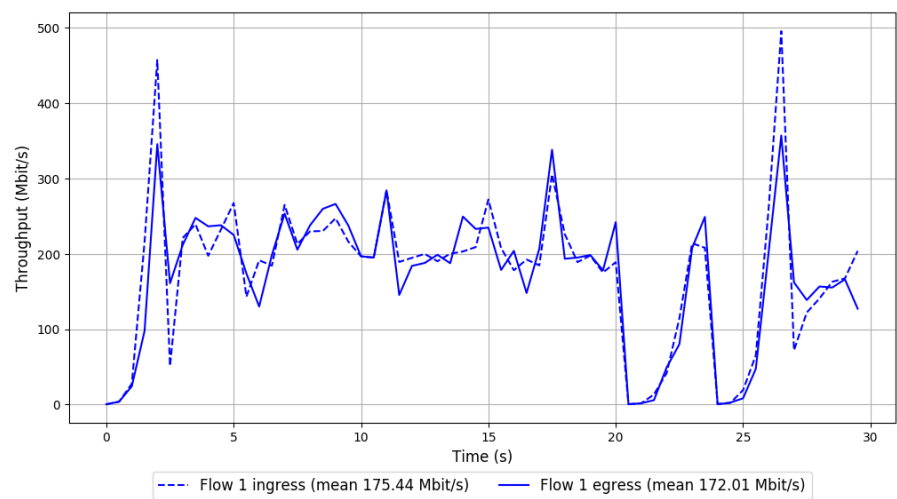
-- Flow 1:

Average throughput: 172.01 Mbit/s

95th percentile per-packet one-way delay: 206.889 ms

Loss rate: 2.54%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-02-27 07:07:06

End at: 2018-02-27 07:07:36

Below is generated by plot.py at 2018-02-27 11:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.75 Mbit/s

95th percentile per-packet one-way delay: 198.817 ms

Loss rate: 4.39%

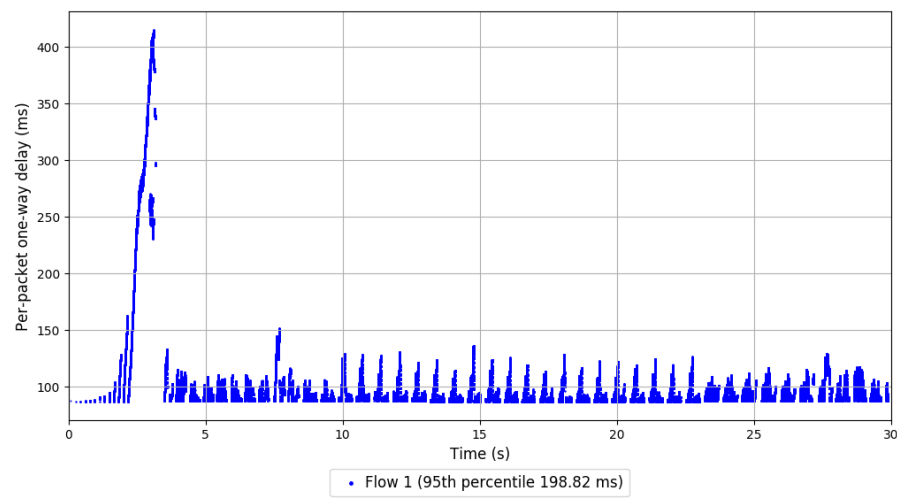
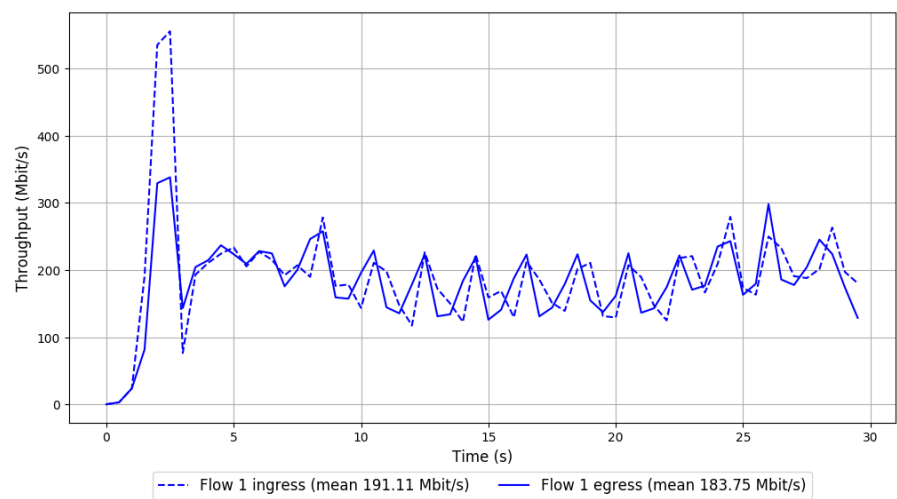
-- Flow 1:

Average throughput: 183.75 Mbit/s

95th percentile per-packet one-way delay: 198.817 ms

Loss rate: 4.39%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-02-27 07:22:30

End at: 2018-02-27 07:23:00

Below is generated by plot.py at 2018-02-27 11:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 235.406 ms

Loss rate: 5.37%

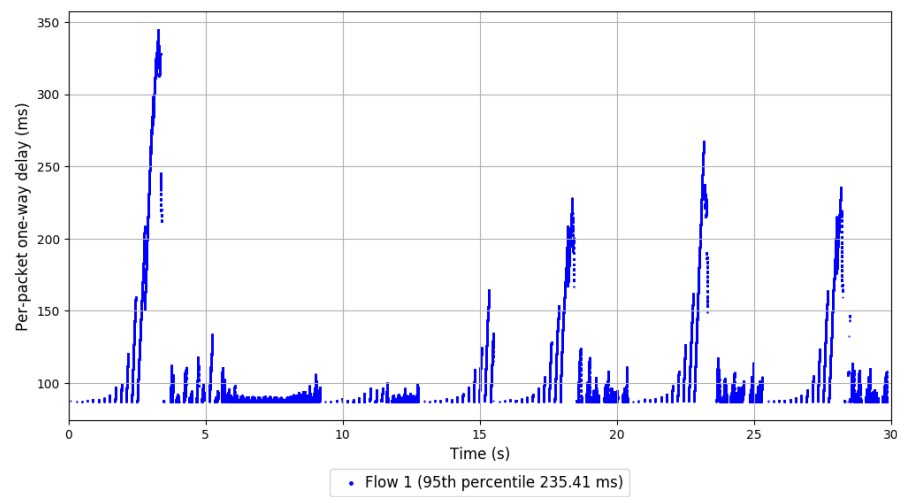
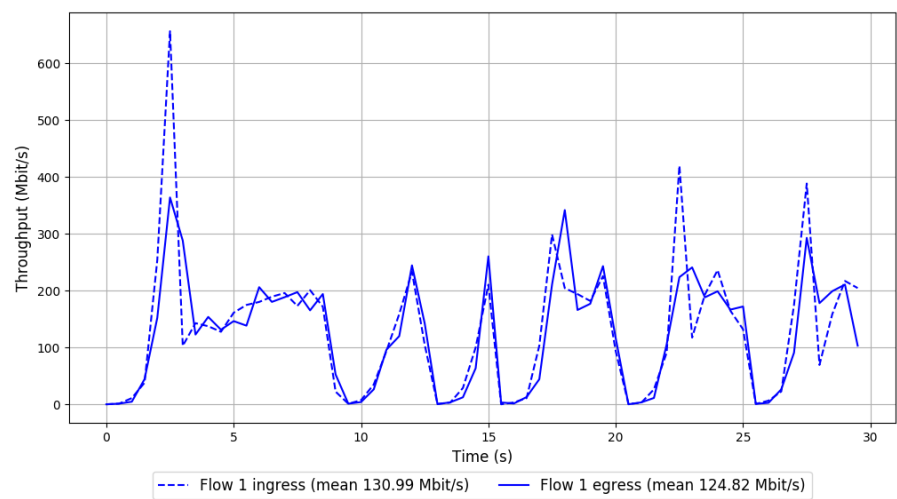
-- Flow 1:

Average throughput: 124.82 Mbit/s

95th percentile per-packet one-way delay: 235.406 ms

Loss rate: 5.37%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-02-27 07:37:49

End at: 2018-02-27 07:38:19

Below is generated by plot.py at 2018-02-27 11:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.46 Mbit/s

95th percentile per-packet one-way delay: 196.936 ms

Loss rate: 3.67%

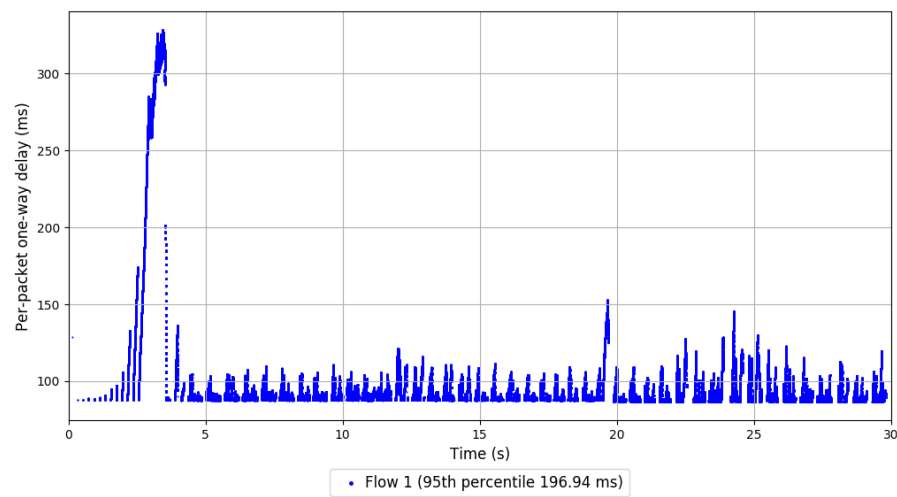
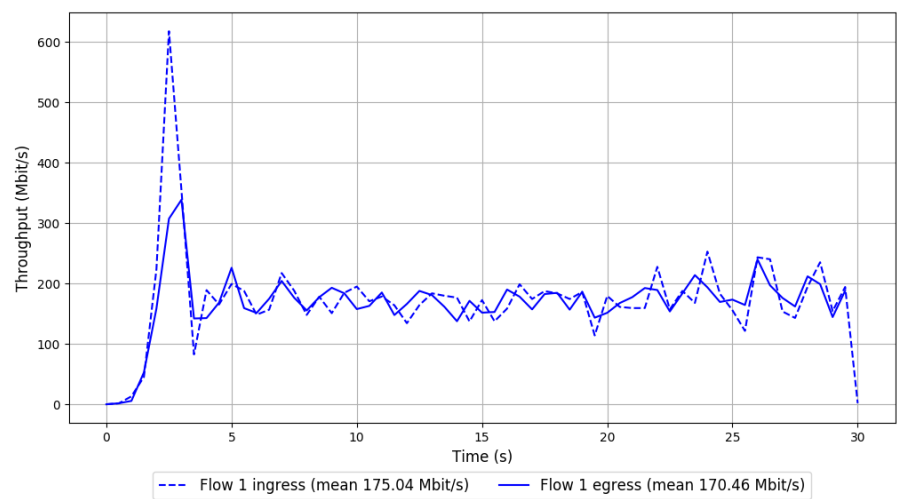
-- Flow 1:

Average throughput: 170.46 Mbit/s

95th percentile per-packet one-way delay: 196.936 ms

Loss rate: 3.67%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-02-27 07:53:26

End at: 2018-02-27 07:53:56

Below is generated by plot.py at 2018-02-27 11:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 224.474 ms

Loss rate: 4.27%

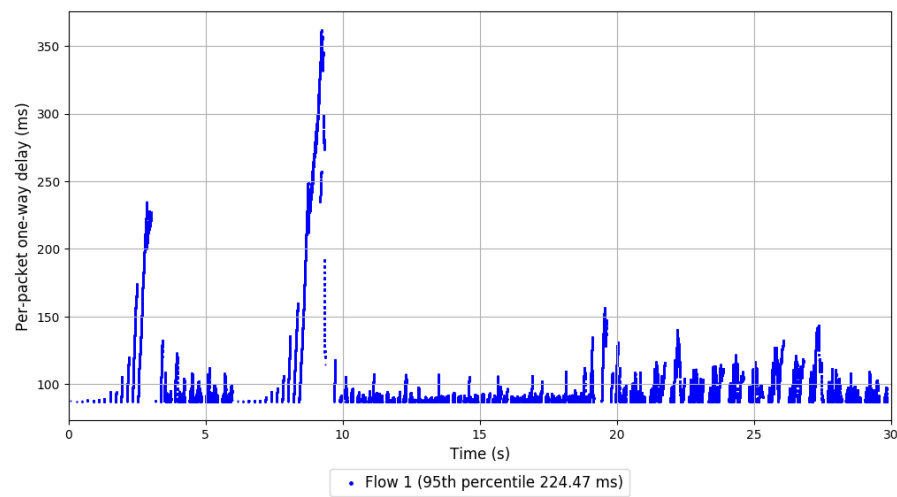
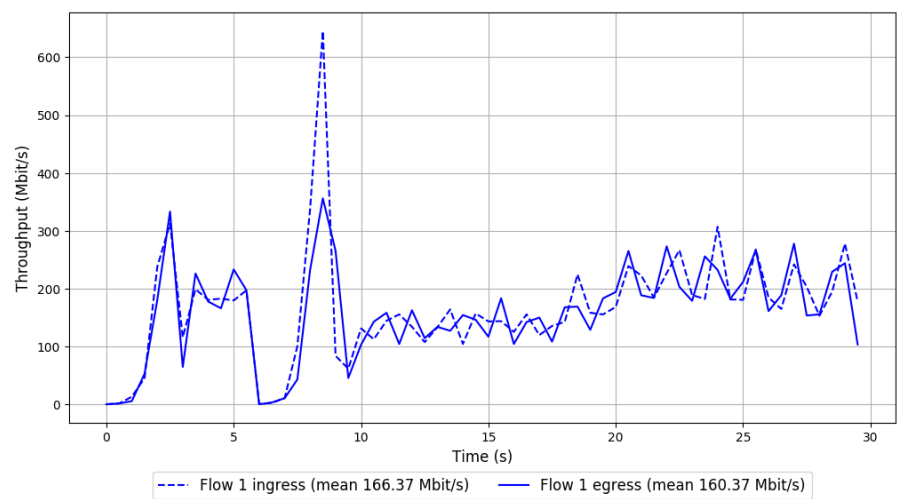
-- Flow 1:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 224.474 ms

Loss rate: 4.27%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-02-27 08:08:33

End at: 2018-02-27 08:09:03

Below is generated by plot.py at 2018-02-27 11:56:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.14 Mbit/s

95th percentile per-packet one-way delay: 213.160 ms

Loss rate: 1.40%

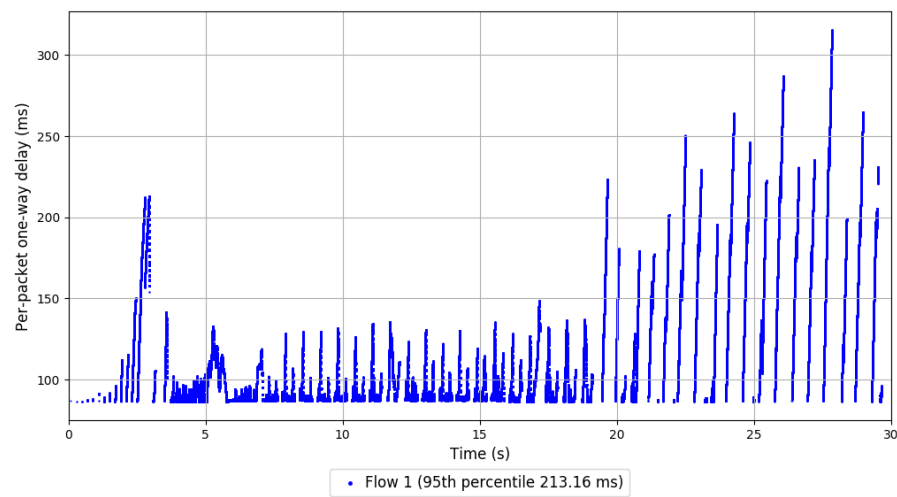
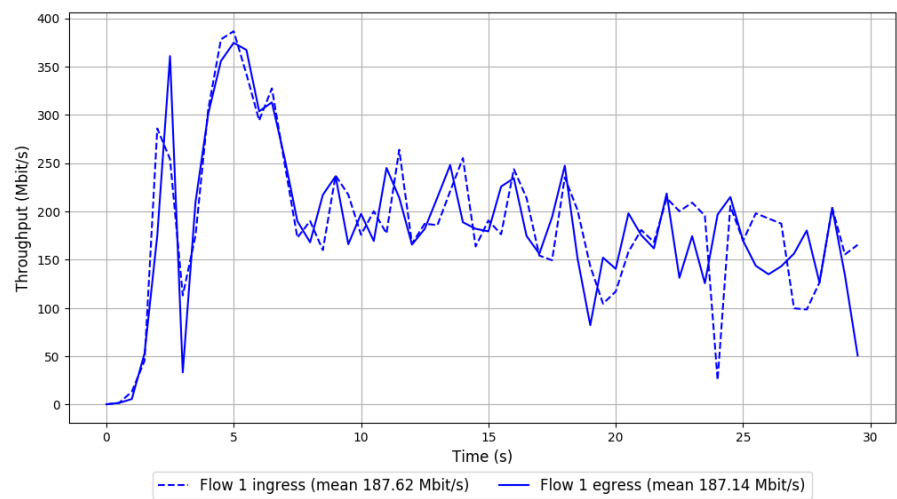
-- Flow 1:

Average throughput: 187.14 Mbit/s

95th percentile per-packet one-way delay: 213.160 ms

Loss rate: 1.40%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-02-27 08:23:42

End at: 2018-02-27 08:24:12

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.22 Mbit/s

95th percentile per-packet one-way delay: 199.971 ms

Loss rate: 1.71%

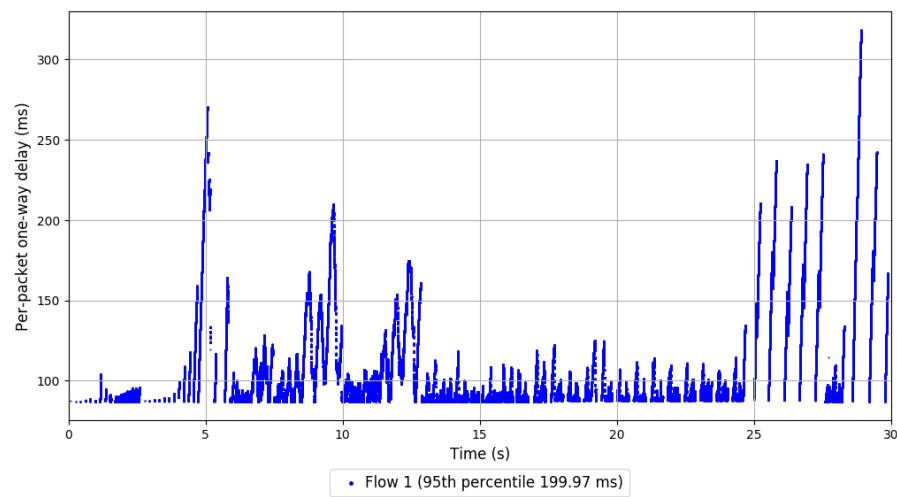
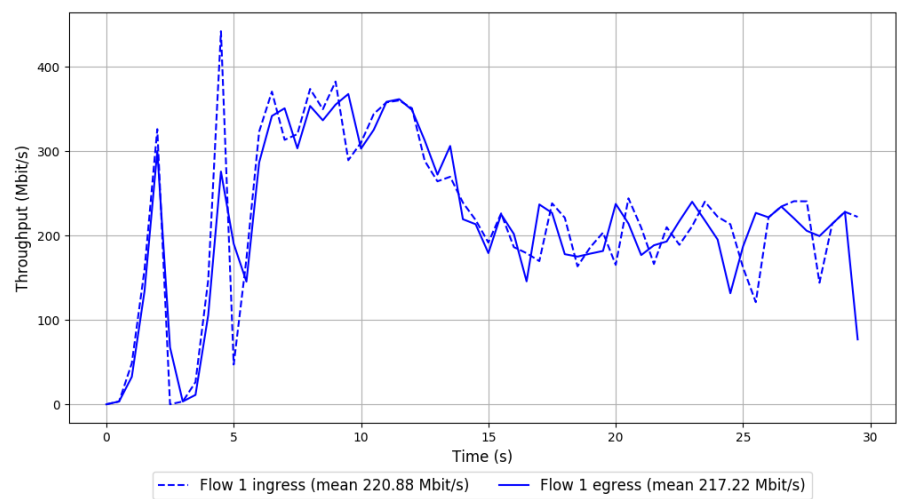
-- Flow 1:

Average throughput: 217.22 Mbit/s

95th percentile per-packet one-way delay: 199.971 ms

Loss rate: 1.71%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-02-27 08:38:51

End at: 2018-02-27 08:39:21

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.52 Mbit/s

95th percentile per-packet one-way delay: 222.007 ms

Loss rate: 3.53%

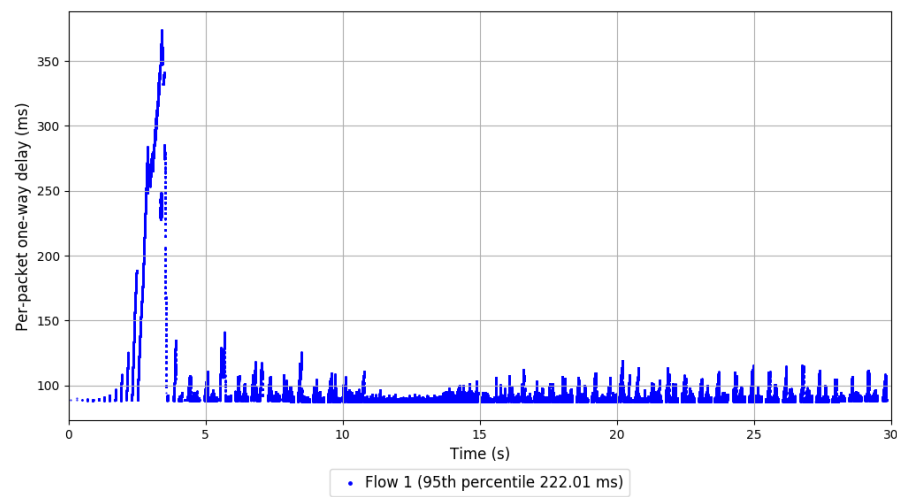
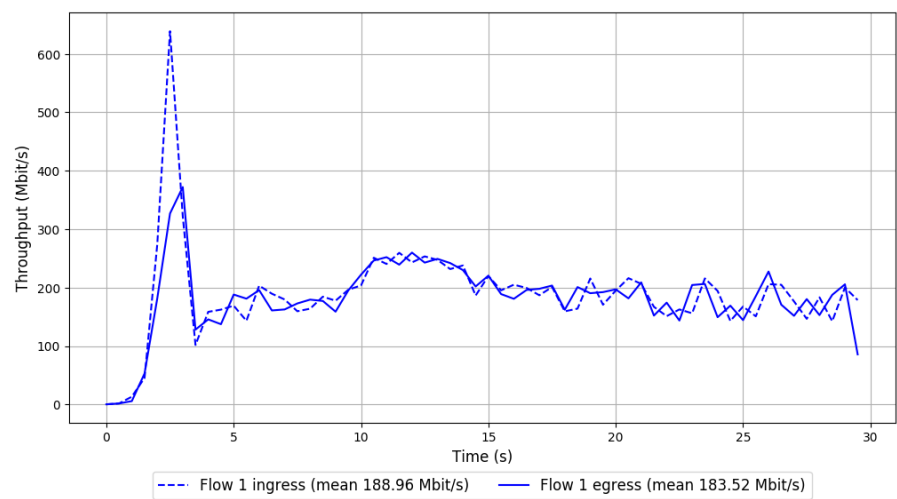
-- Flow 1:

Average throughput: 183.52 Mbit/s

95th percentile per-packet one-way delay: 222.007 ms

Loss rate: 3.53%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-02-27 06:10:37

End at: 2018-02-27 06:11:07

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 0.88%

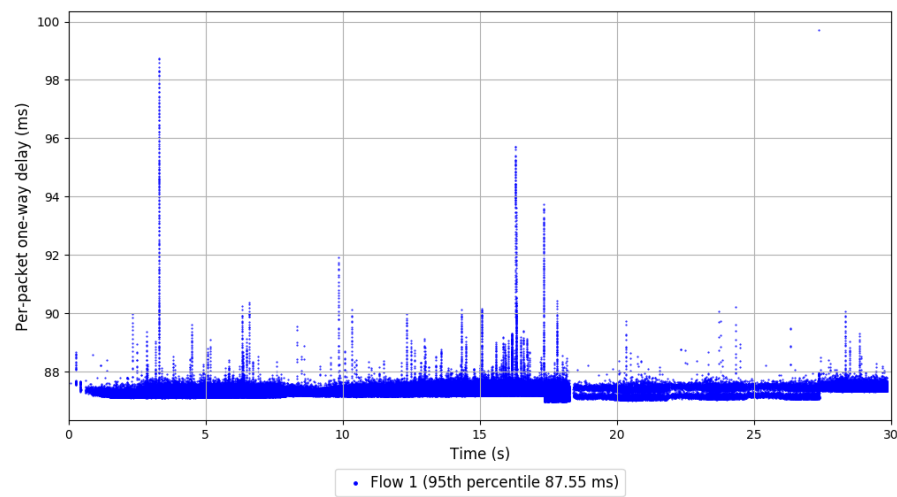
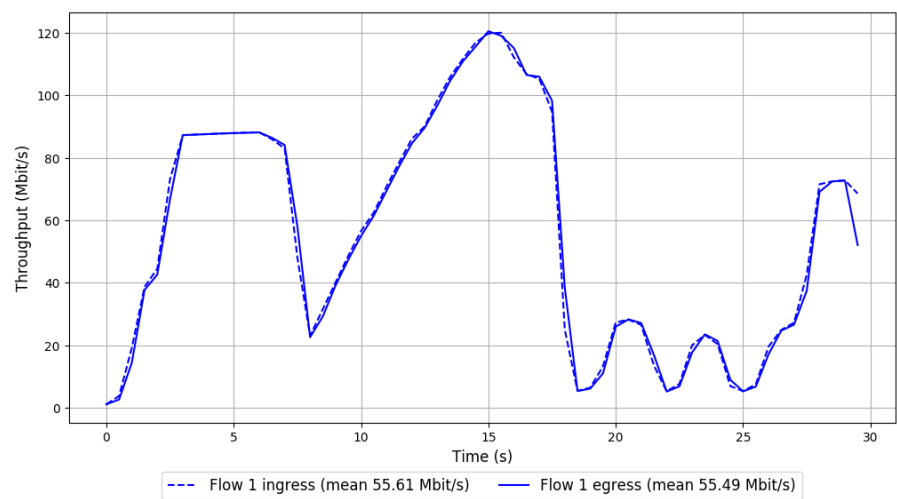
-- Flow 1:

Average throughput: 55.49 Mbit/s

95th percentile per-packet one-way delay: 87.552 ms

Loss rate: 0.88%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-02-27 06:25:50

End at: 2018-02-27 06:26:20

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 114.416 ms

Loss rate: 0.95%

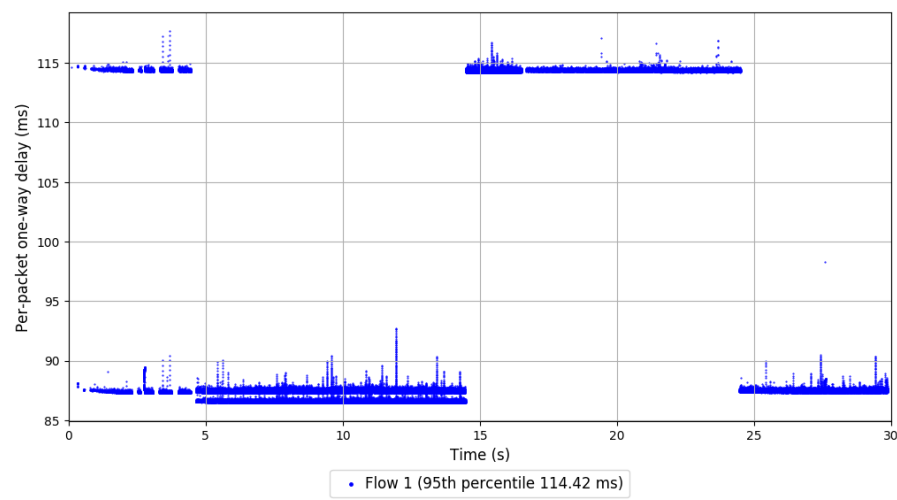
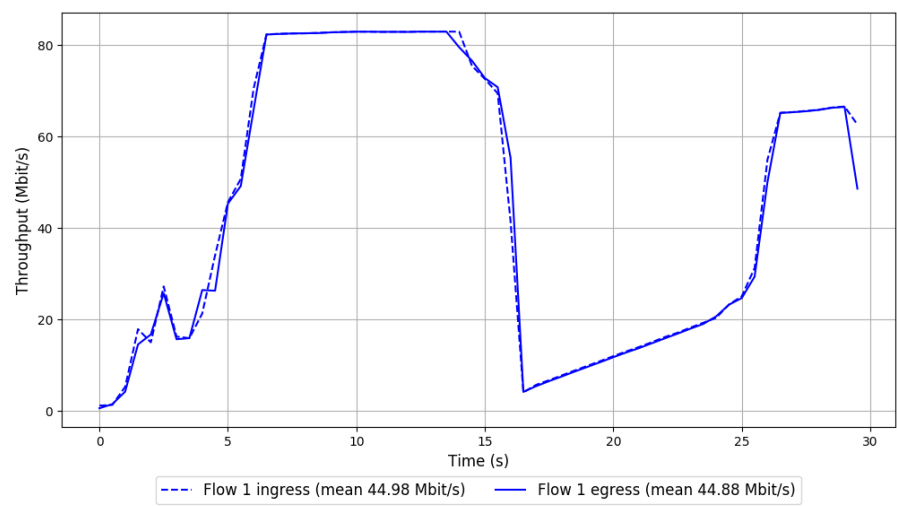
-- Flow 1:

Average throughput: 44.88 Mbit/s

95th percentile per-packet one-way delay: 114.416 ms

Loss rate: 0.95%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-02-27 06:41:20

End at: 2018-02-27 06:41:50

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 87.279 ms

Loss rate: 0.37%

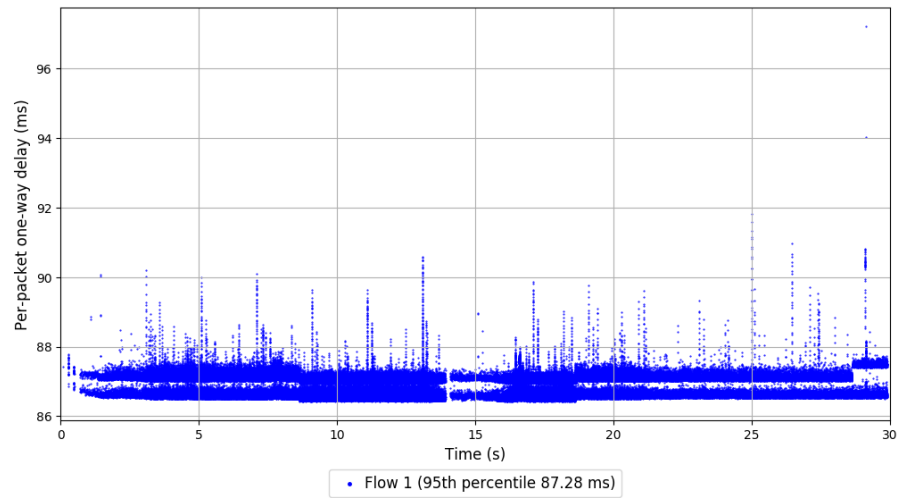
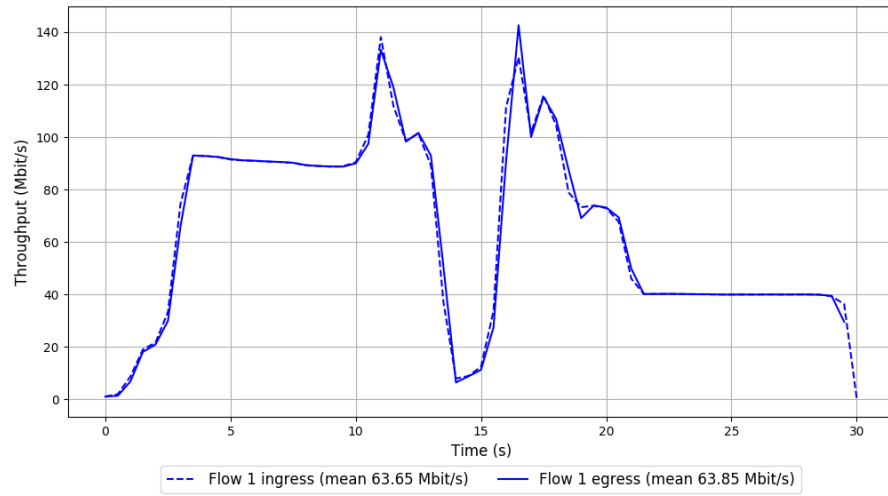
-- Flow 1:

Average throughput: 63.85 Mbit/s

95th percentile per-packet one-way delay: 87.279 ms

Loss rate: 0.37%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-02-27 06:56:23

End at: 2018-02-27 06:56:53

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 115.063 ms

Loss rate: 1.30%

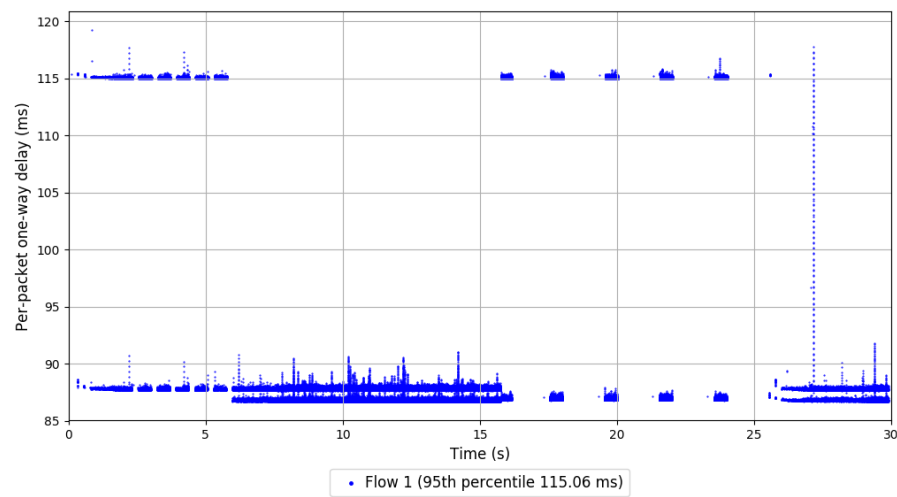
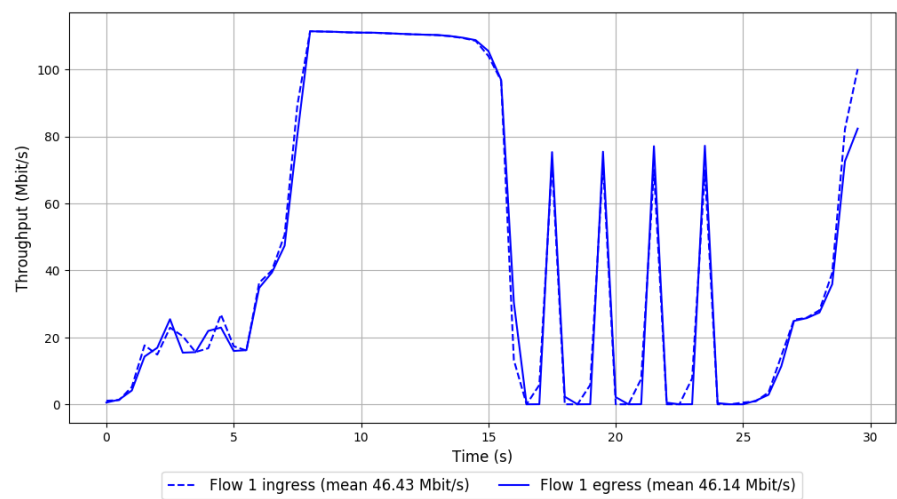
-- Flow 1:

Average throughput: 46.14 Mbit/s

95th percentile per-packet one-way delay: 115.063 ms

Loss rate: 1.30%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-02-27 07:11:30

End at: 2018-02-27 07:12:00

Below is generated by plot.py at 2018-02-27 11:59:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 87.578 ms

Loss rate: 0.11%

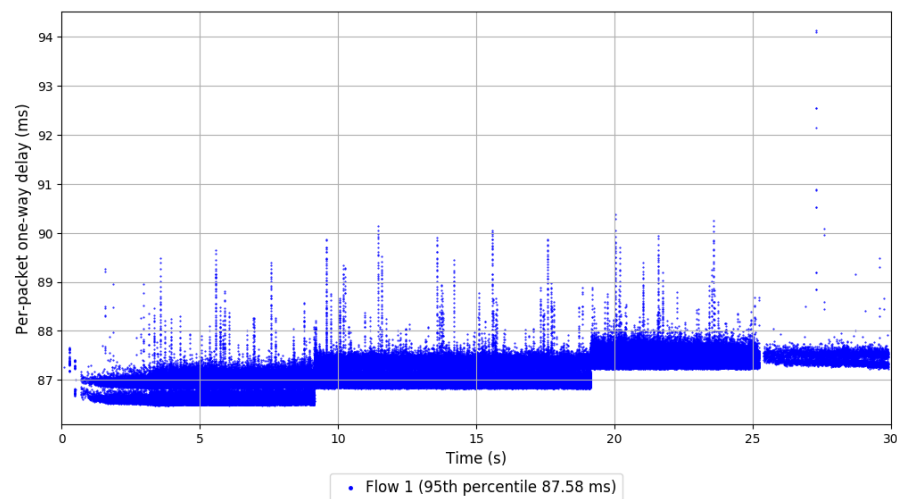
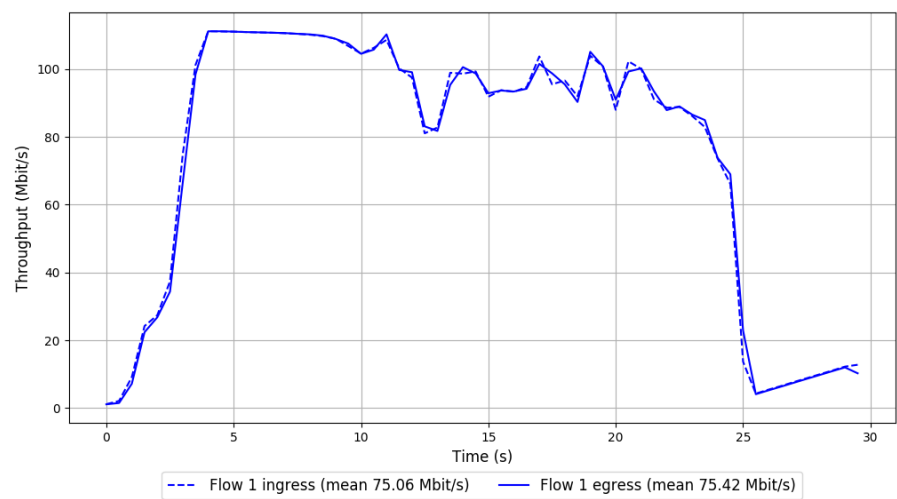
-- Flow 1:

Average throughput: 75.42 Mbit/s

95th percentile per-packet one-way delay: 87.578 ms

Loss rate: 0.11%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-02-27 07:26:50

End at: 2018-02-27 07:27:20

Below is generated by plot.py at 2018-02-27 12:00:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 0.68%

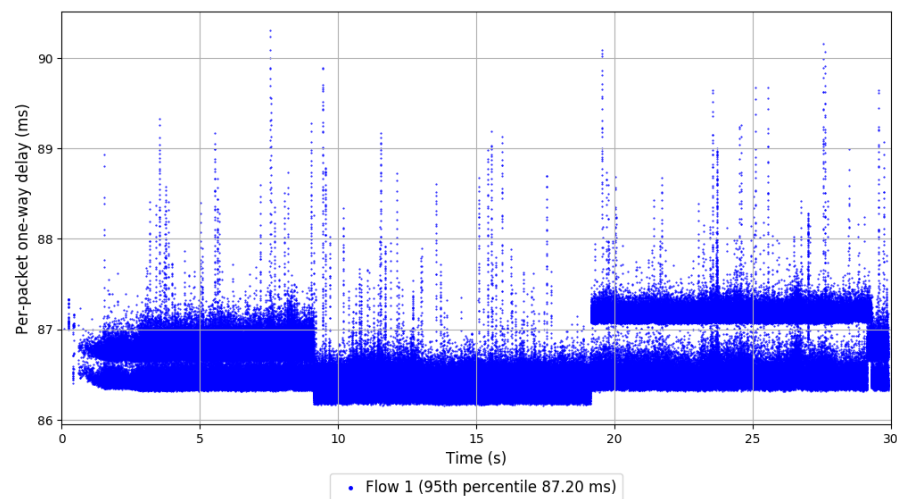
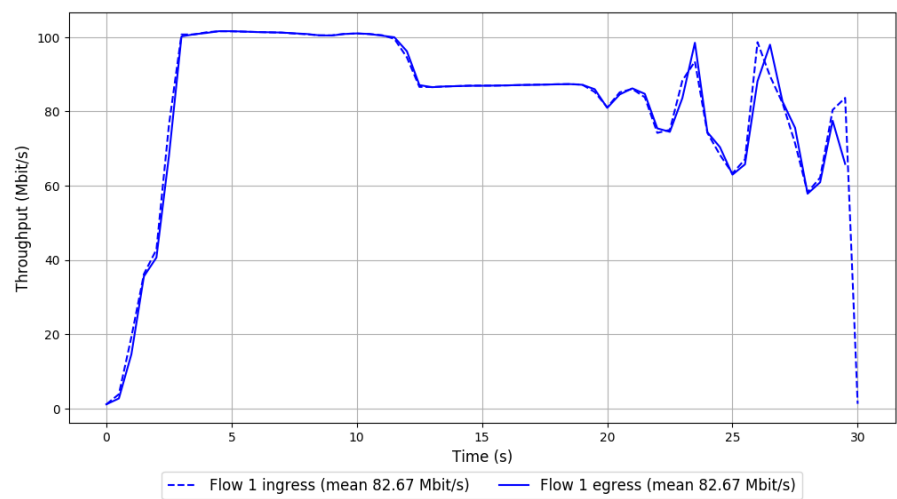
-- Flow 1:

Average throughput: 82.67 Mbit/s

95th percentile per-packet one-way delay: 87.204 ms

Loss rate: 0.68%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-02-27 07:42:13

End at: 2018-02-27 07:42:43

Below is generated by plot.py at 2018-02-27 12:13:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.65 Mbit/s

95th percentile per-packet one-way delay: 287.077 ms

Loss rate: 45.79%

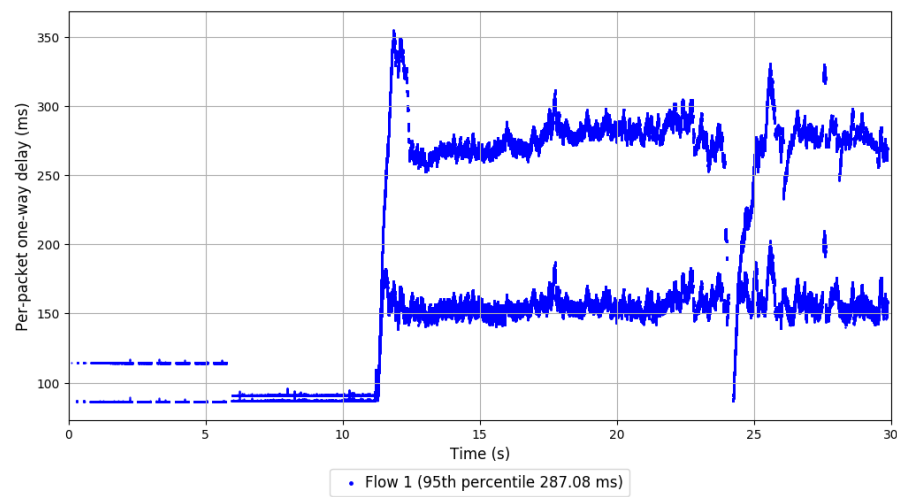
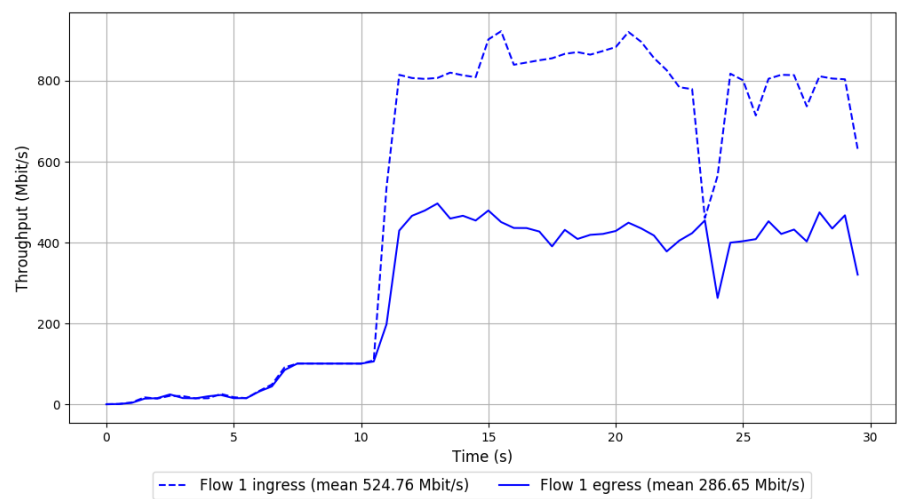
-- Flow 1:

Average throughput: 286.65 Mbit/s

95th percentile per-packet one-way delay: 287.077 ms

Loss rate: 45.79%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-02-27 07:57:42

End at: 2018-02-27 07:58:12

Below is generated by plot.py at 2018-02-27 12:13:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.74 Mbit/s

95th percentile per-packet one-way delay: 90.759 ms

Loss rate: 0.44%

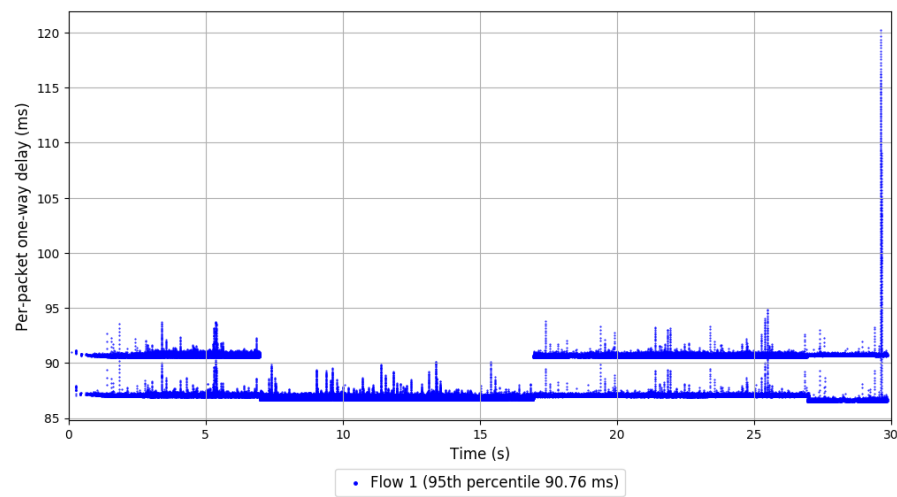
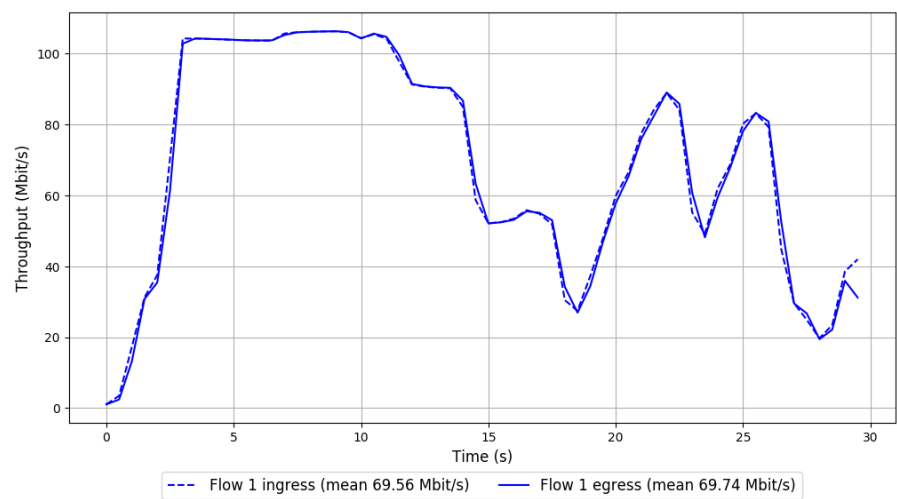
-- Flow 1:

Average throughput: 69.74 Mbit/s

95th percentile per-packet one-way delay: 90.759 ms

Loss rate: 0.44%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-02-27 08:12:58

End at: 2018-02-27 08:13:28

Below is generated by plot.py at 2018-02-27 12:13:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 91.122 ms

Loss rate: 0.16%

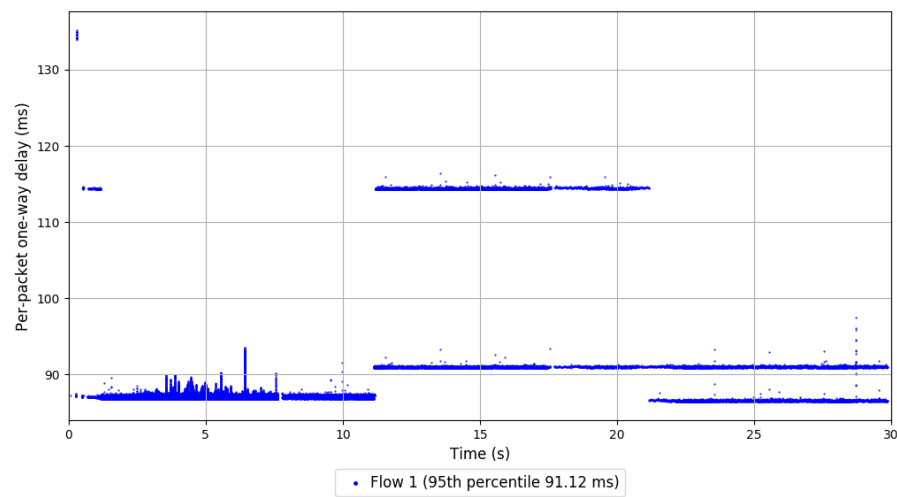
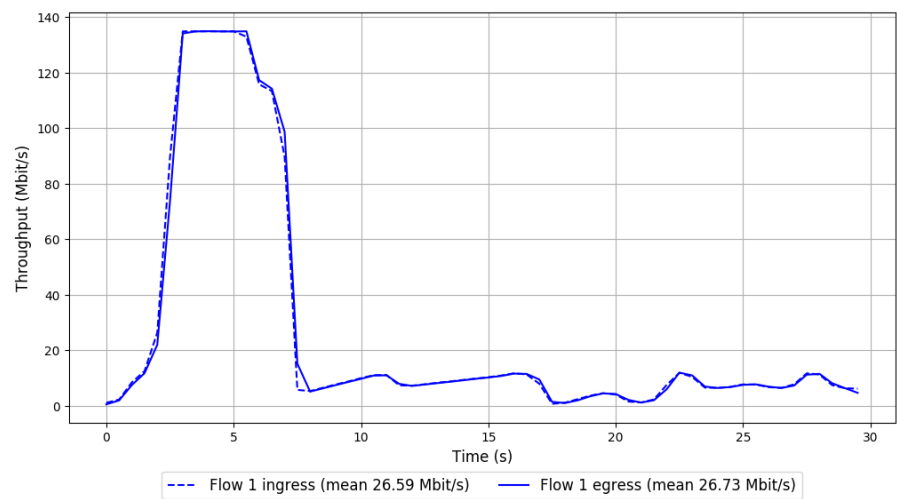
-- Flow 1:

Average throughput: 26.73 Mbit/s

95th percentile per-packet one-way delay: 91.122 ms

Loss rate: 0.16%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-02-27 08:28:13

End at: 2018-02-27 08:28:43

Below is generated by plot.py at 2018-02-27 12:13:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 88.094 ms

Loss rate: 0.41%

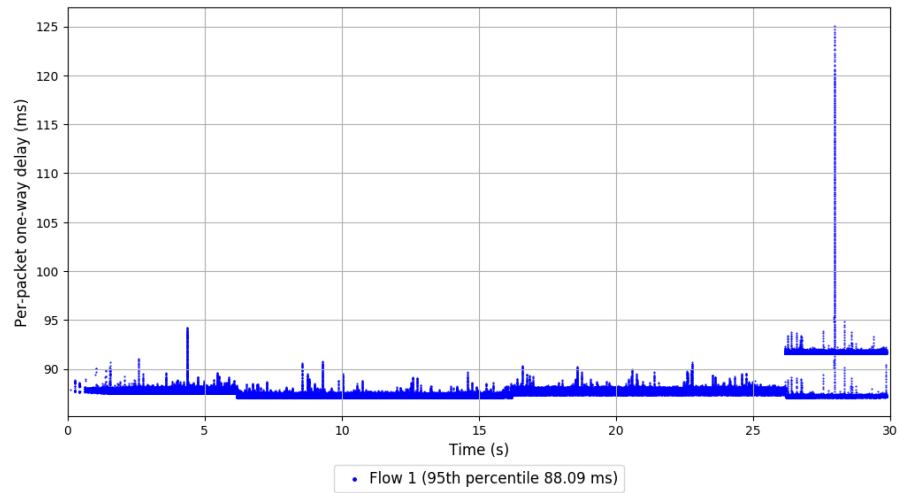
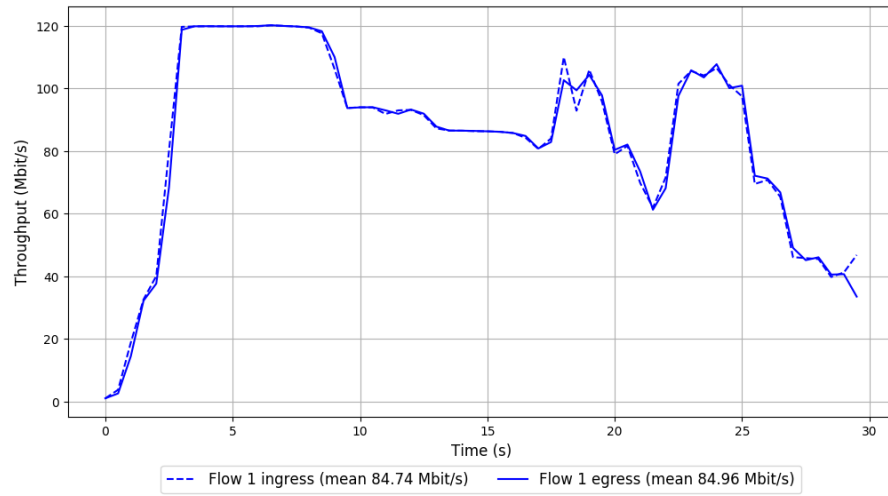
-- Flow 1:

Average throughput: 84.96 Mbit/s

95th percentile per-packet one-way delay: 88.094 ms

Loss rate: 0.41%

Run 10: Report of Copa — Data Link

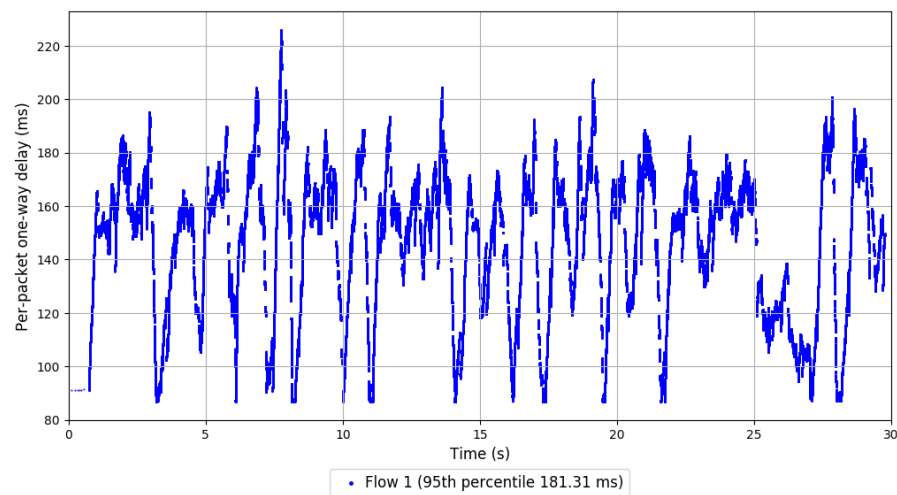
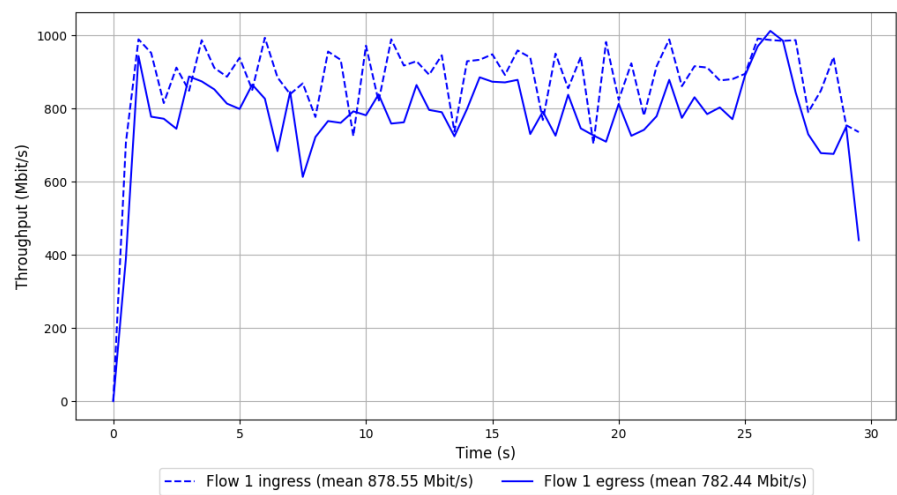


```
Run 1: Statistics of FillP

Start at: 2018-02-27 06:16:12
End at: 2018-02-27 06:16:42

# Below is generated by plot.py at 2018-02-27 12:21:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 782.44 Mbit/s
95th percentile per-packet one-way delay: 181.307 ms
Loss rate: 11.56%
-- Flow 1:
Average throughput: 782.44 Mbit/s
95th percentile per-packet one-way delay: 181.307 ms
Loss rate: 11.56%
```


Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-02-27 06:31:32

End at: 2018-02-27 06:32:02

Below is generated by plot.py at 2018-02-27 12:21:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.97 Mbit/s

95th percentile per-packet one-way delay: 200.005 ms

Loss rate: 11.66%

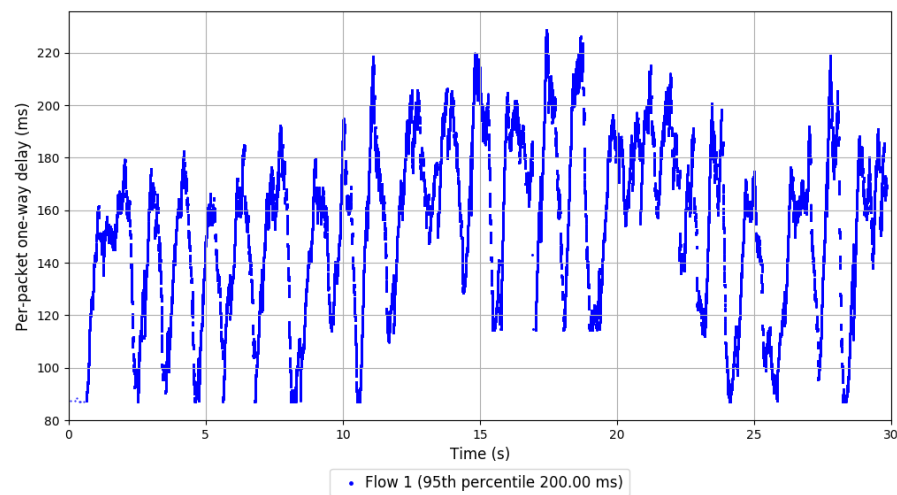
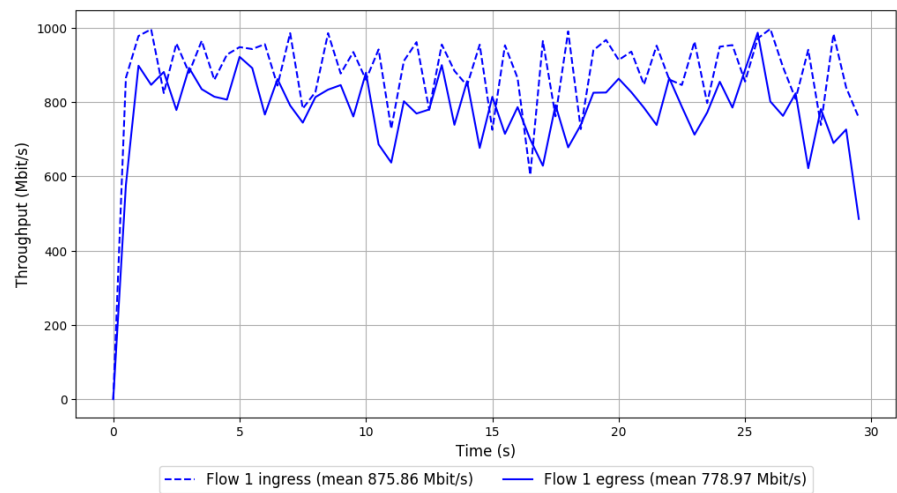
-- Flow 1:

Average throughput: 778.97 Mbit/s

95th percentile per-packet one-way delay: 200.005 ms

Loss rate: 11.66%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-02-27 06:46:56

End at: 2018-02-27 06:47:26

Below is generated by plot.py at 2018-02-27 12:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 791.22 Mbit/s

95th percentile per-packet one-way delay: 199.672 ms

Loss rate: 10.64%

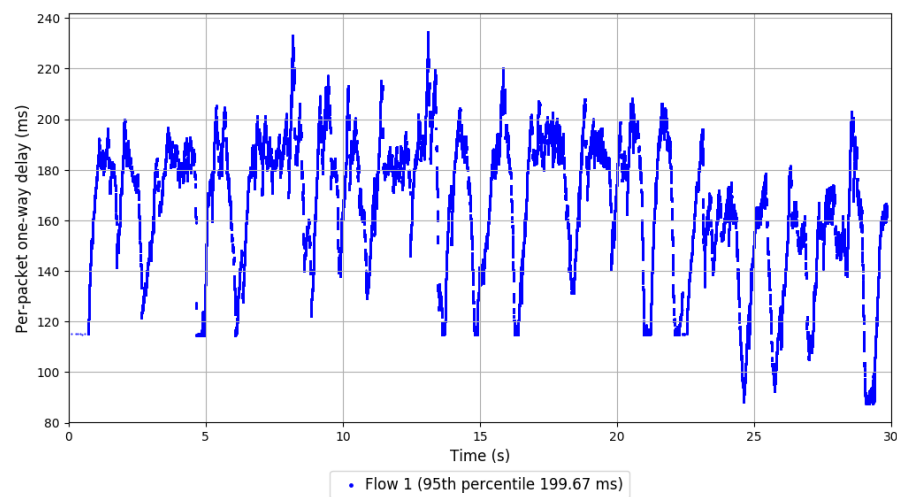
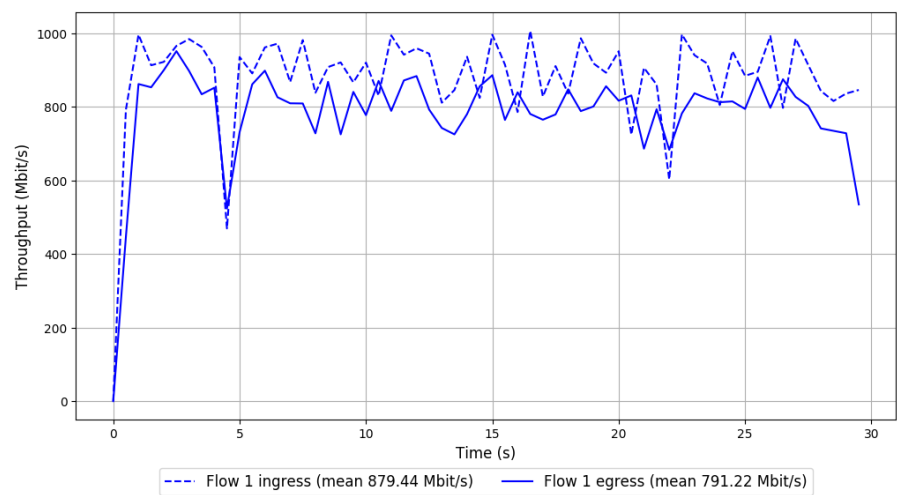
-- Flow 1:

Average throughput: 791.22 Mbit/s

95th percentile per-packet one-way delay: 199.672 ms

Loss rate: 10.64%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-02-27 07:01:56

End at: 2018-02-27 07:02:26

Below is generated by plot.py at 2018-02-27 12:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.79 Mbit/s

95th percentile per-packet one-way delay: 176.588 ms

Loss rate: 10.58%

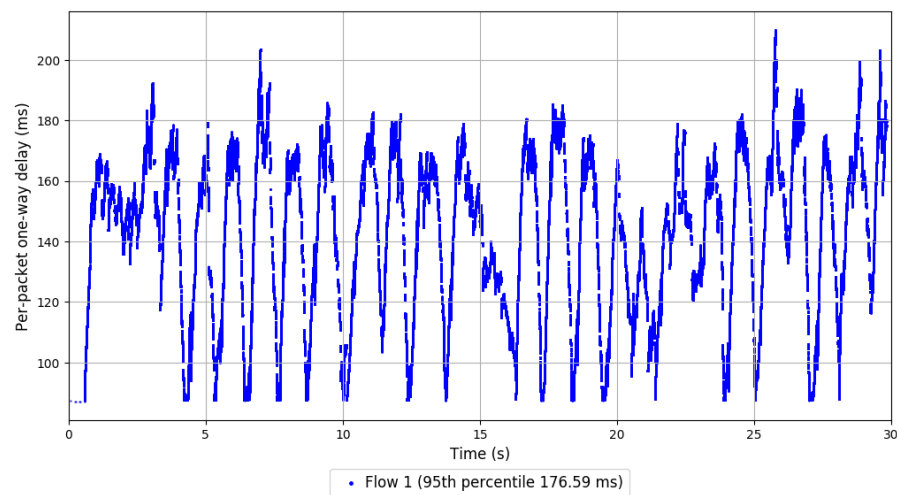
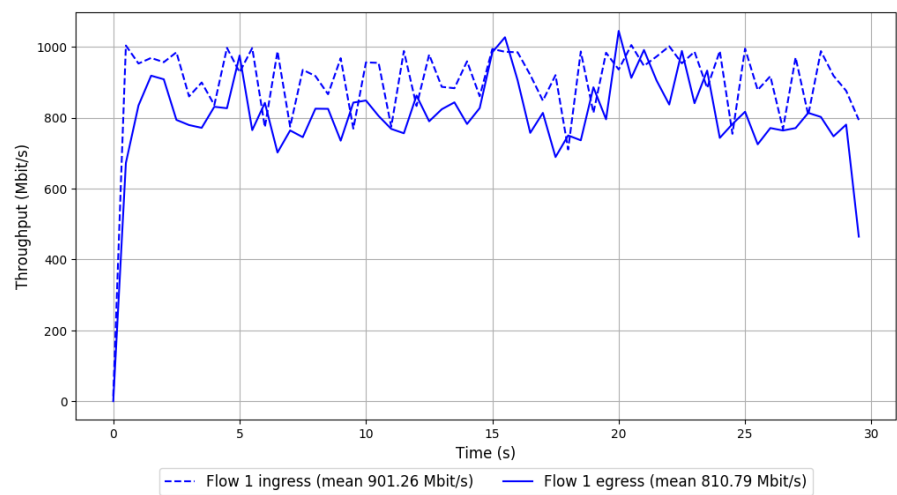
-- Flow 1:

Average throughput: 810.79 Mbit/s

95th percentile per-packet one-way delay: 176.588 ms

Loss rate: 10.58%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-02-27 07:17:12

End at: 2018-02-27 07:17:42

Below is generated by plot.py at 2018-02-27 12:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 742.71 Mbit/s

95th percentile per-packet one-way delay: 182.956 ms

Loss rate: 14.08%

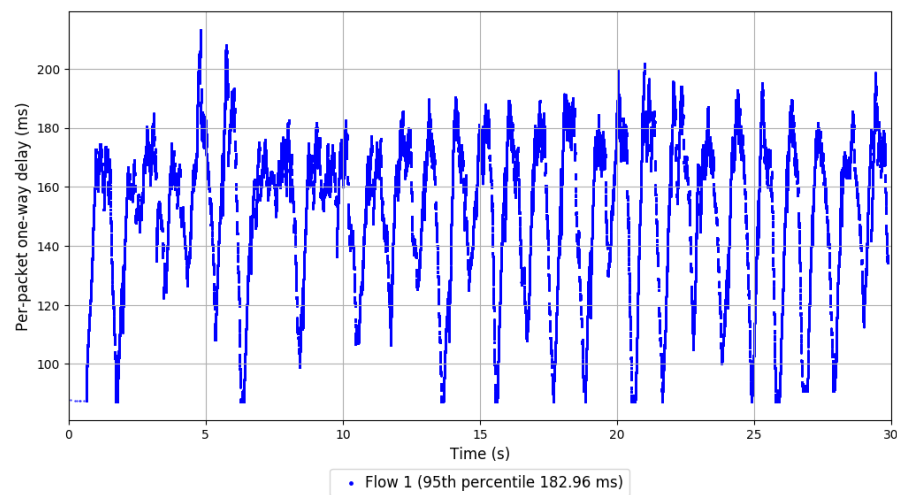
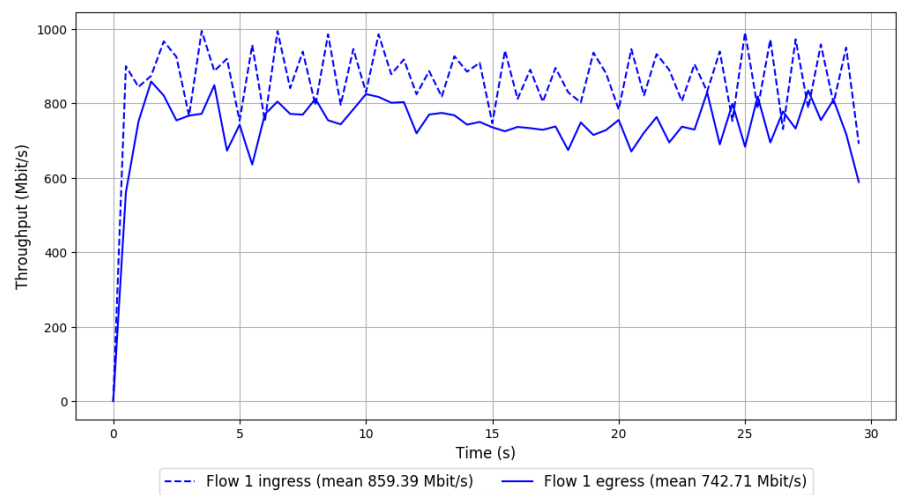
-- Flow 1:

Average throughput: 742.71 Mbit/s

95th percentile per-packet one-way delay: 182.956 ms

Loss rate: 14.08%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-02-27 07:32:33

End at: 2018-02-27 07:33:03

Below is generated by plot.py at 2018-02-27 12:23:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.81 Mbit/s

95th percentile per-packet one-way delay: 201.087 ms

Loss rate: 11.35%

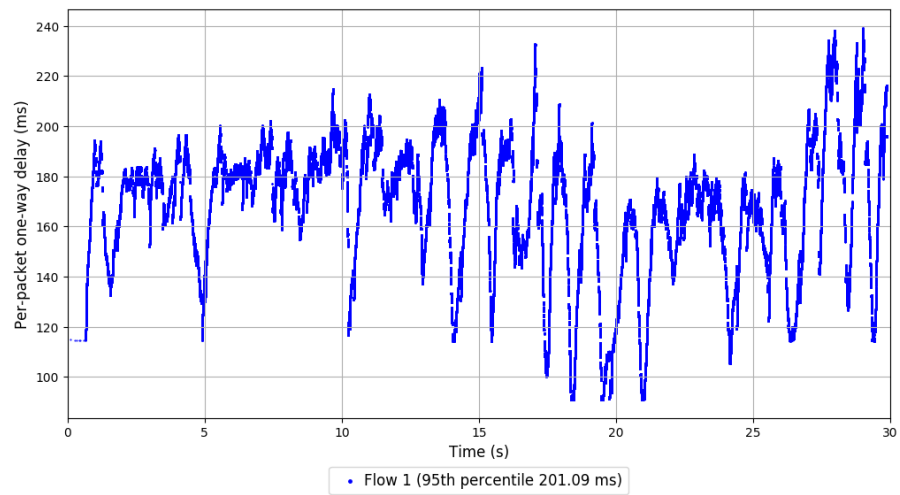
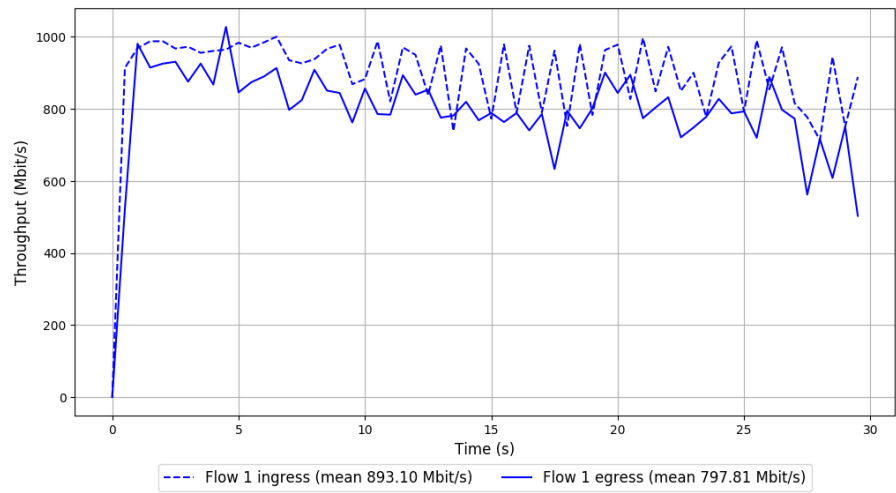
-- Flow 1:

Average throughput: 797.81 Mbit/s

95th percentile per-packet one-way delay: 201.087 ms

Loss rate: 11.35%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-02-27 07:48:15

End at: 2018-02-27 07:48:45

Below is generated by plot.py at 2018-02-27 12:24:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 776.04 Mbit/s

95th percentile per-packet one-way delay: 183.805 ms

Loss rate: 12.79%

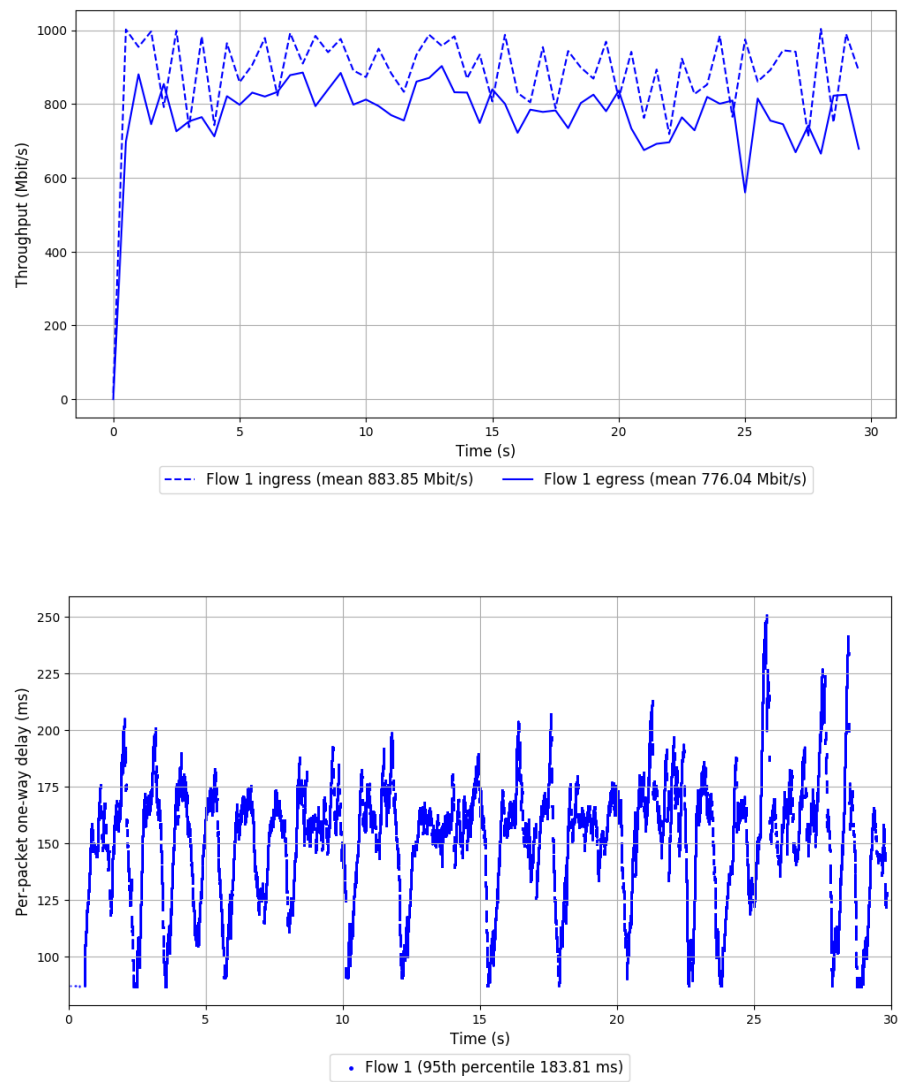
-- Flow 1:

Average throughput: 776.04 Mbit/s

95th percentile per-packet one-way delay: 183.805 ms

Loss rate: 12.79%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-02-27 08:03:23

End at: 2018-02-27 08:03:53

Below is generated by plot.py at 2018-02-27 12:38:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.79 Mbit/s

95th percentile per-packet one-way delay: 198.292 ms

Loss rate: 12.03%

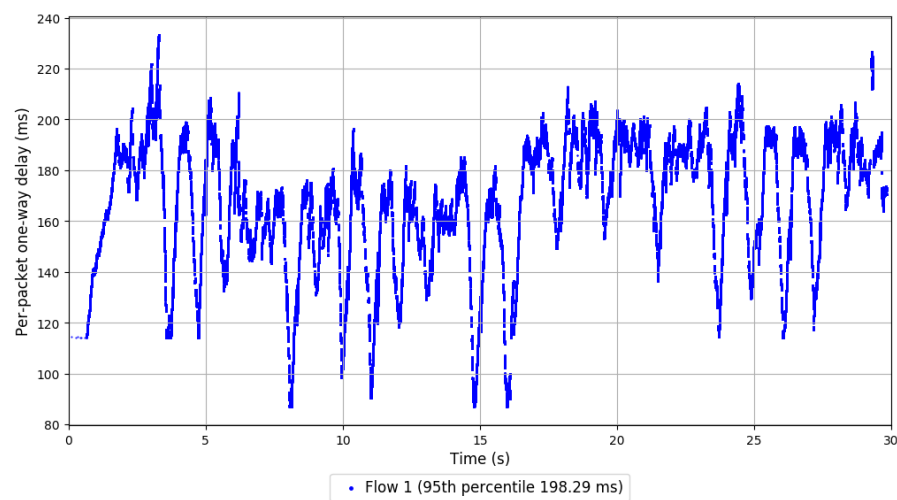
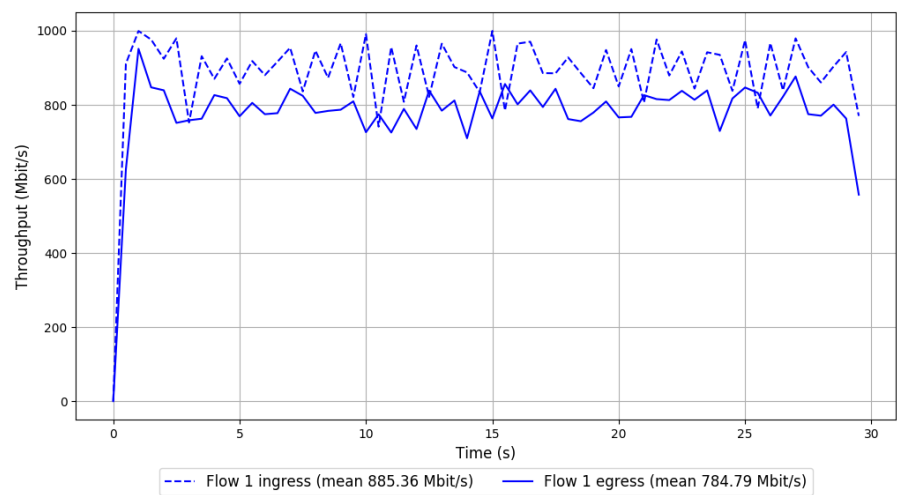
-- Flow 1:

Average throughput: 784.79 Mbit/s

95th percentile per-packet one-way delay: 198.292 ms

Loss rate: 12.03%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-02-27 08:18:26

End at: 2018-02-27 08:18:56

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 782.97 Mbit/s

95th percentile per-packet one-way delay: 196.320 ms

Loss rate: 11.95%

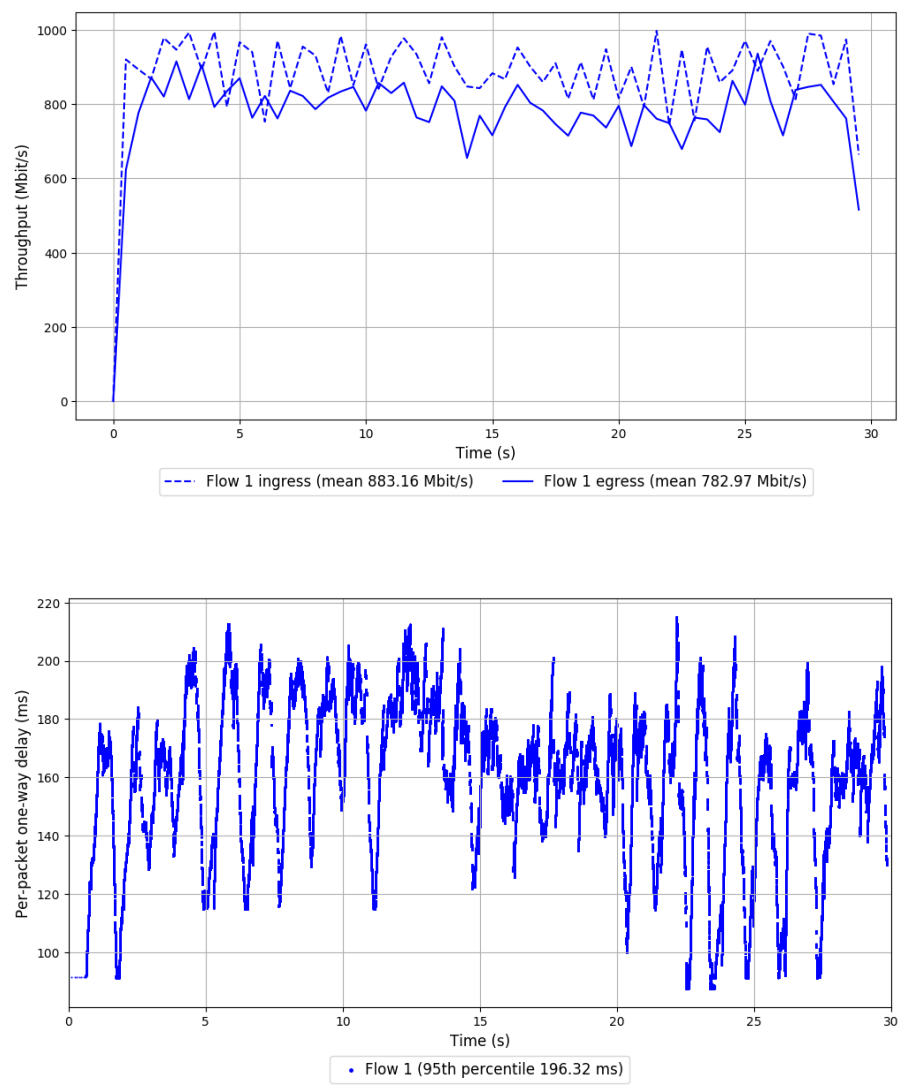
-- Flow 1:

Average throughput: 782.97 Mbit/s

95th percentile per-packet one-way delay: 196.320 ms

Loss rate: 11.95%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-02-27 08:33:46

End at: 2018-02-27 08:34:16

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 734.17 Mbit/s

95th percentile per-packet one-way delay: 218.417 ms

Loss rate: 13.36%

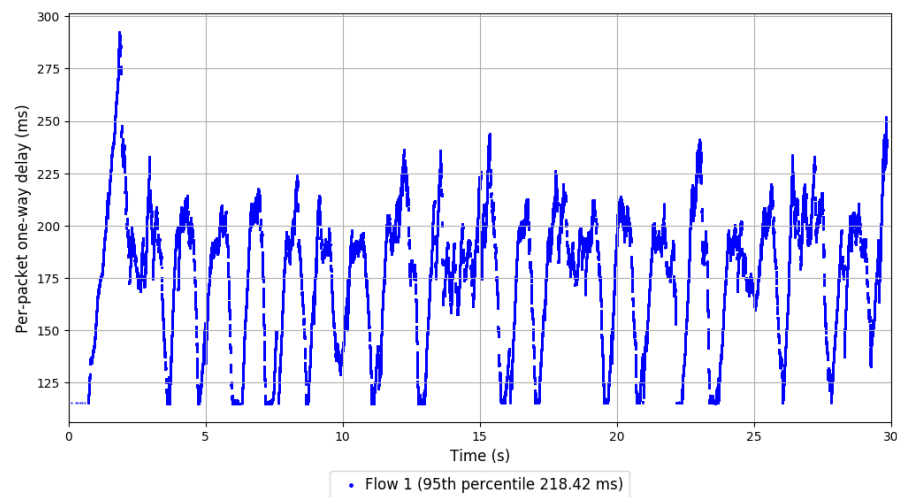
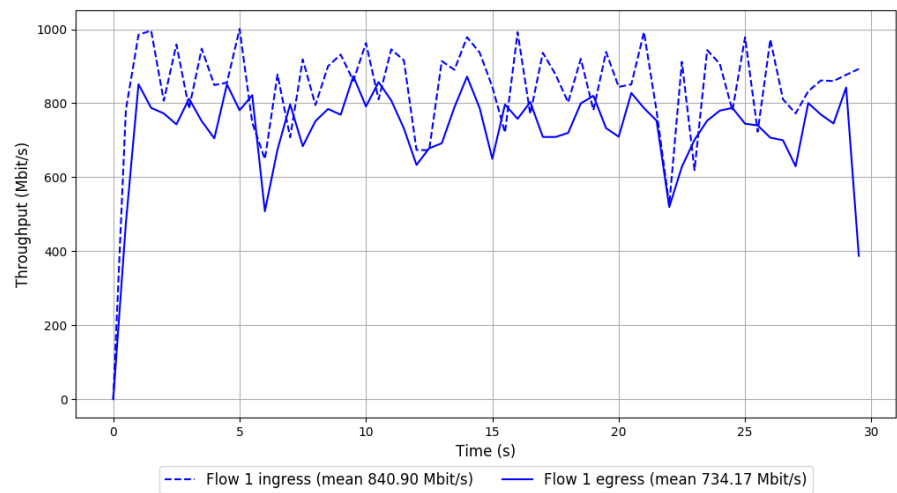
-- Flow 1:

Average throughput: 734.17 Mbit/s

95th percentile per-packet one-way delay: 218.417 ms

Loss rate: 13.36%

Run 10: Report of FillP — Data Link

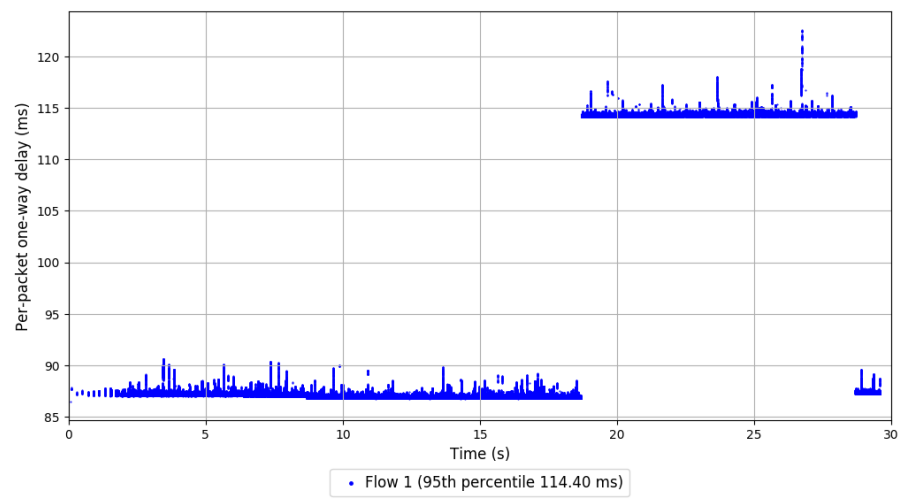
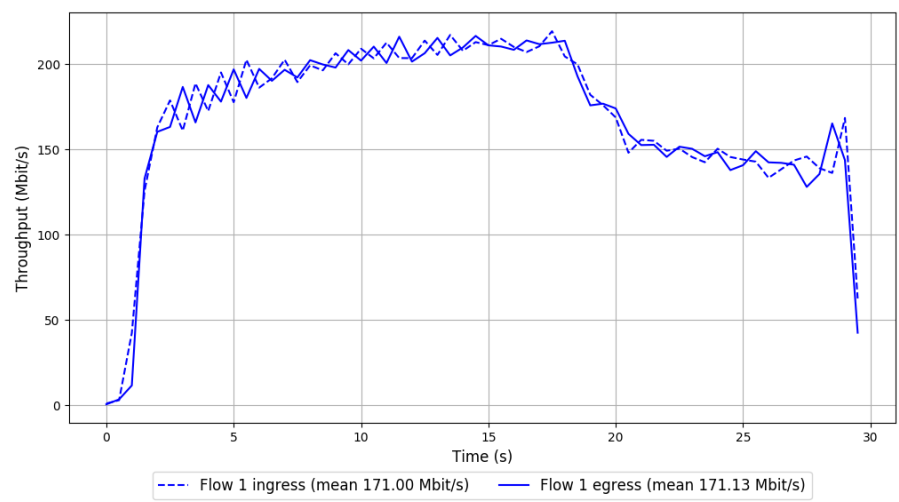


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-02-27 06:19:06
End at: 2018-02-27 06:19:36

# Below is generated by plot.py at 2018-02-27 12:44:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 171.13 Mbit/s
95th percentile per-packet one-way delay: 114.397 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 171.13 Mbit/s
95th percentile per-packet one-way delay: 114.397 ms
Loss rate: 0.60%
```

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

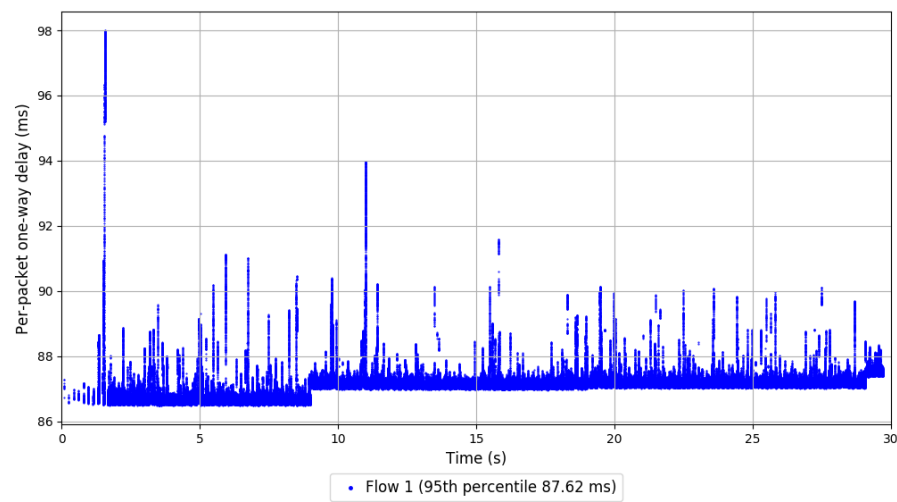
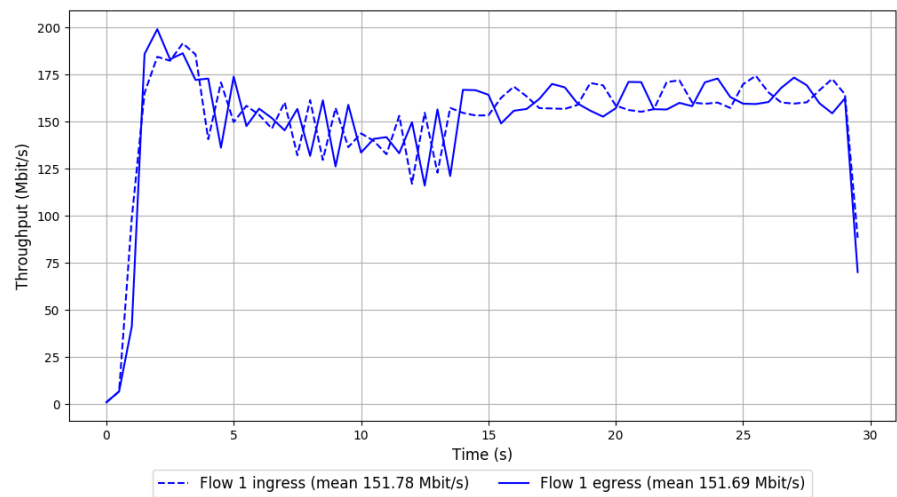


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-02-27 06:34:30
End at: 2018-02-27 06:35:00

# Below is generated by plot.py at 2018-02-27 12:44:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 151.69 Mbit/s
95th percentile per-packet one-way delay: 87.625 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 151.69 Mbit/s
95th percentile per-packet one-way delay: 87.625 ms
Loss rate: 0.64%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-02-27 06:49:47

End at: 2018-02-27 06:50:17

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.06 Mbit/s

95th percentile per-packet one-way delay: 87.887 ms

Loss rate: 0.65%

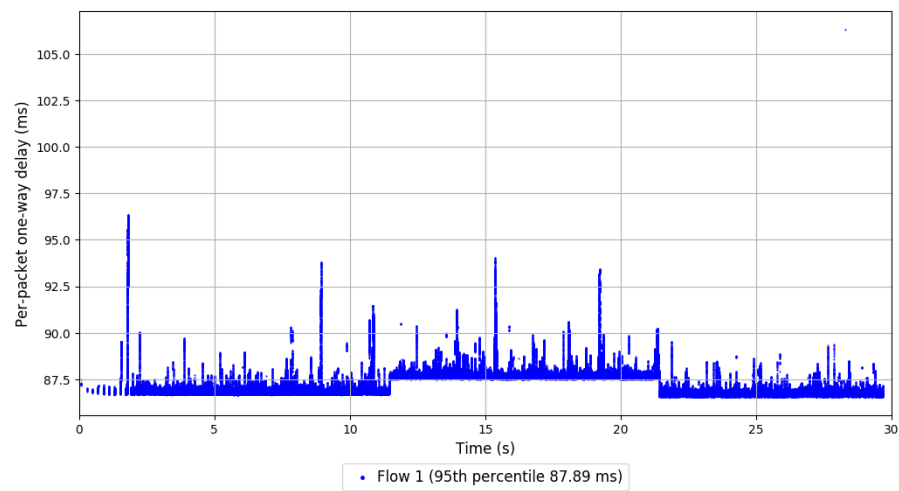
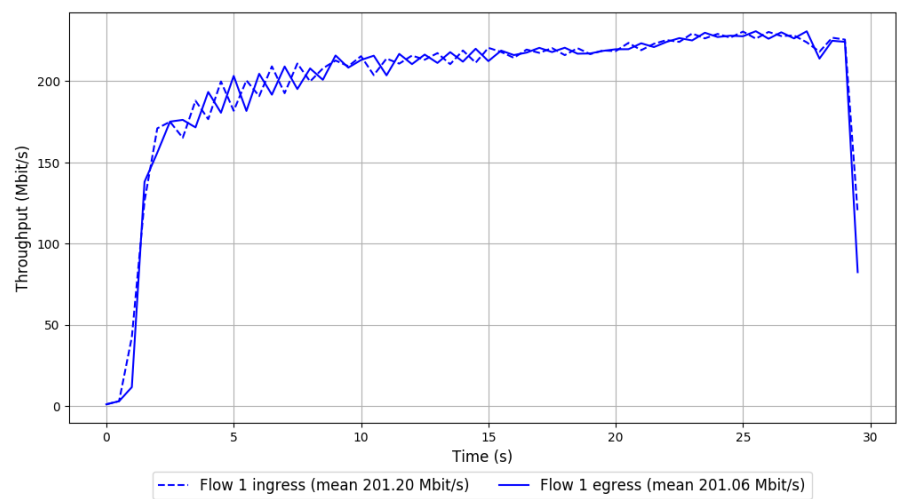
-- Flow 1:

Average throughput: 201.06 Mbit/s

95th percentile per-packet one-way delay: 87.887 ms

Loss rate: 0.65%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-02-27 07:04:47

End at: 2018-02-27 07:05:17

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.69 Mbit/s

95th percentile per-packet one-way delay: 87.906 ms

Loss rate: 0.67%

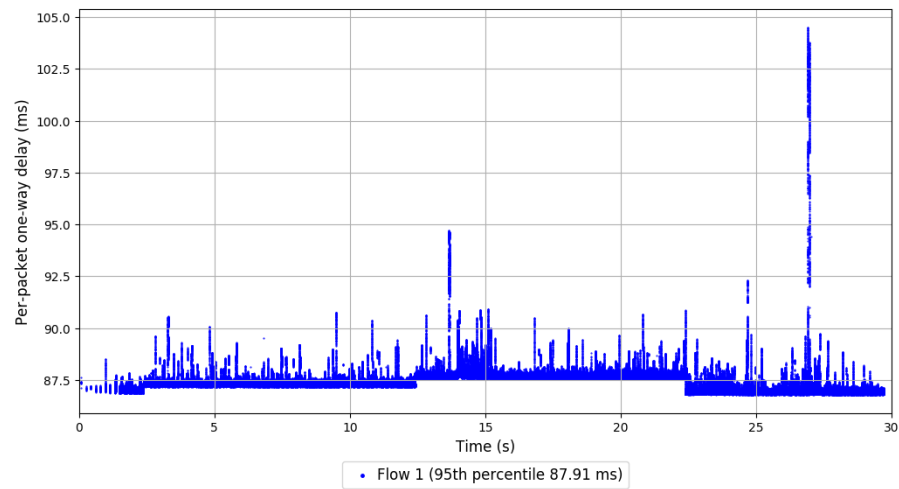
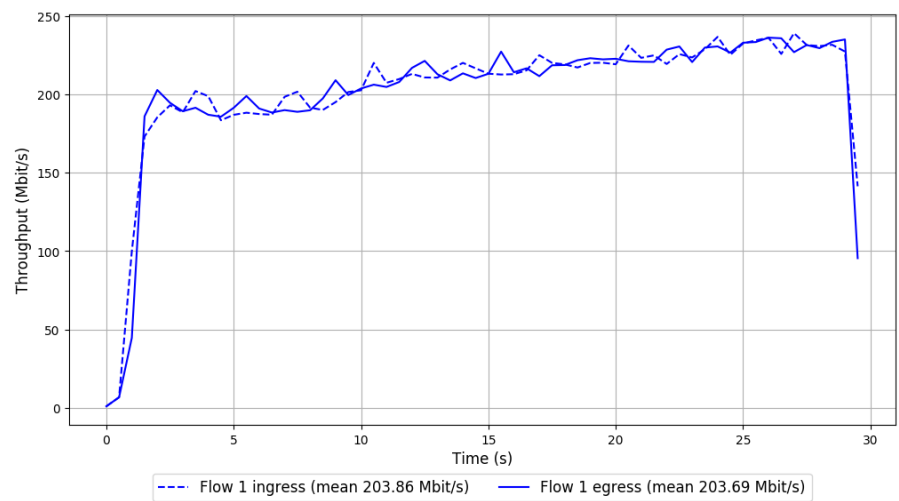
-- Flow 1:

Average throughput: 203.69 Mbit/s

95th percentile per-packet one-way delay: 87.906 ms

Loss rate: 0.67%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-02-27 07:20:09

End at: 2018-02-27 07:20:39

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.71 Mbit/s

95th percentile per-packet one-way delay: 87.417 ms

Loss rate: 0.62%

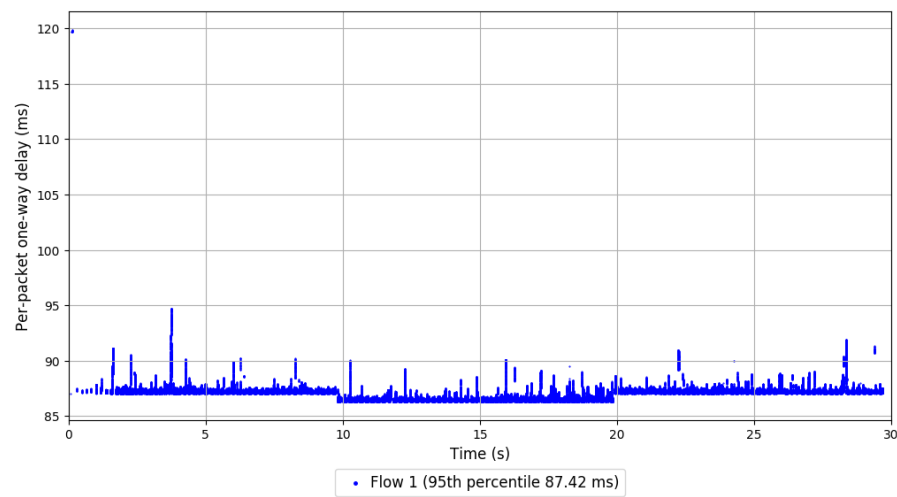
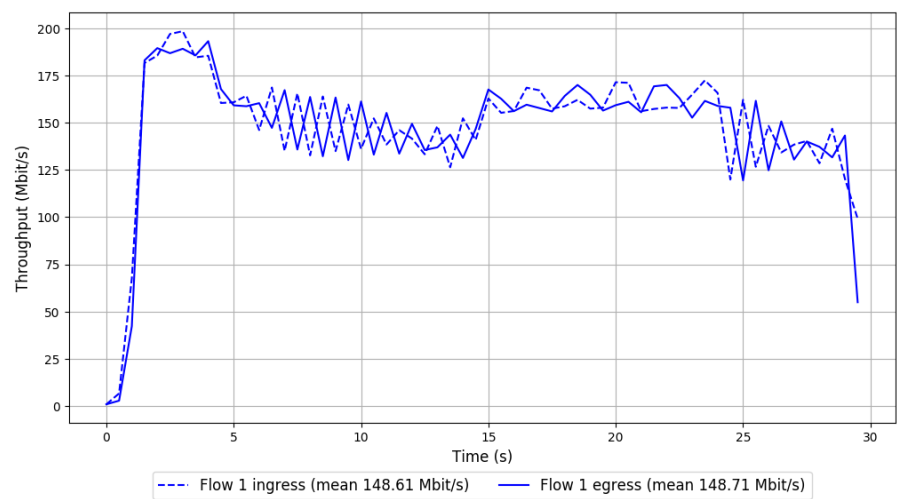
-- Flow 1:

Average throughput: 148.71 Mbit/s

95th percentile per-packet one-way delay: 87.417 ms

Loss rate: 0.62%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-02-27 07:35:28

End at: 2018-02-27 07:35:58

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.90 Mbit/s

95th percentile per-packet one-way delay: 87.563 ms

Loss rate: 0.56%

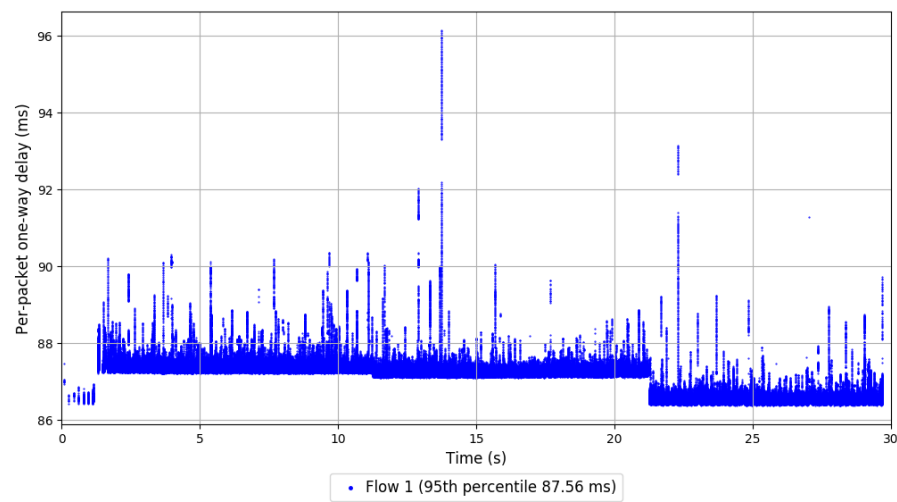
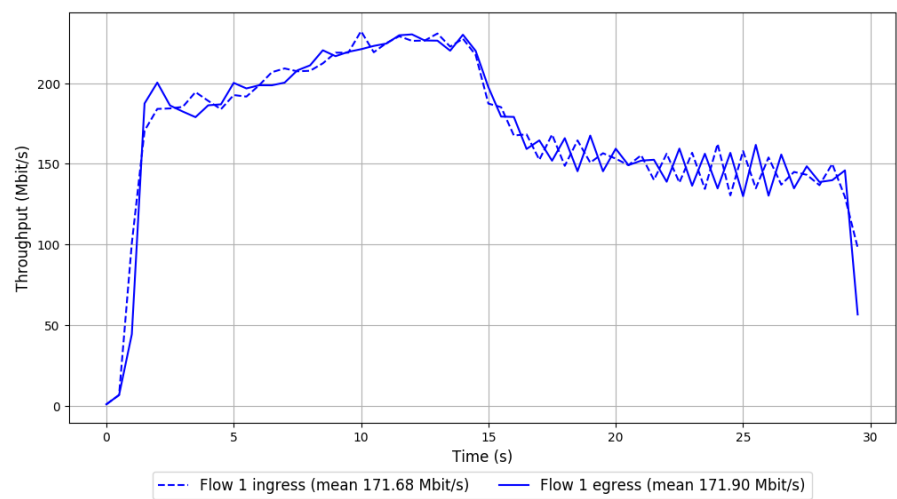
-- Flow 1:

Average throughput: 171.90 Mbit/s

95th percentile per-packet one-way delay: 87.563 ms

Loss rate: 0.56%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-02-27 07:51:05

End at: 2018-02-27 07:51:35

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.06 Mbit/s

95th percentile per-packet one-way delay: 87.496 ms

Loss rate: 0.75%

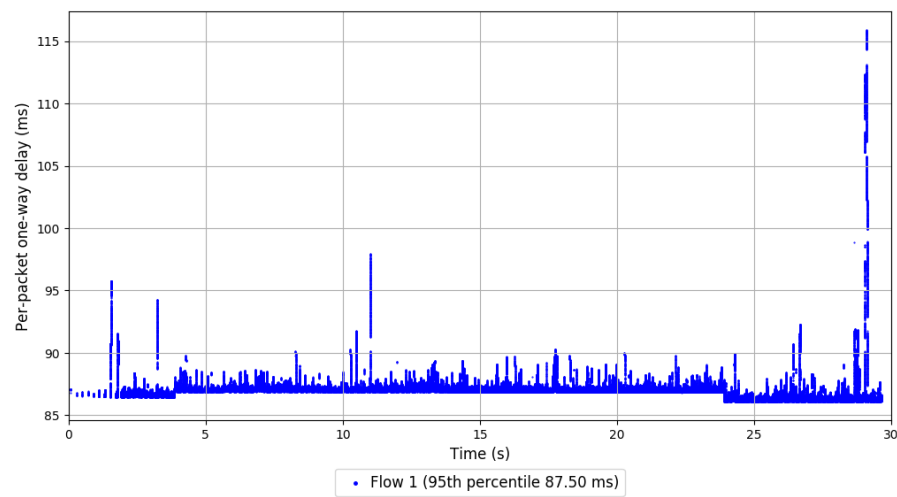
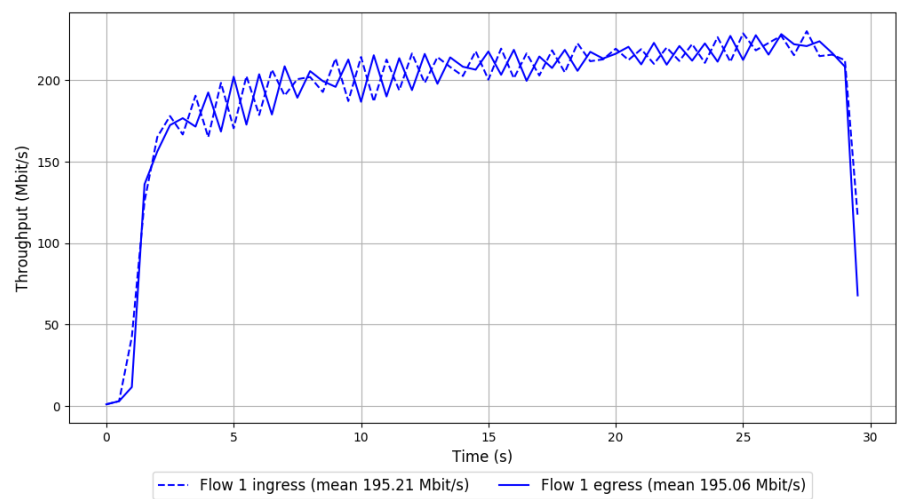
-- Flow 1:

Average throughput: 195.06 Mbit/s

95th percentile per-packet one-way delay: 87.496 ms

Loss rate: 0.75%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-02-27 08:06:13

End at: 2018-02-27 08:06:43

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.83 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 0.76%

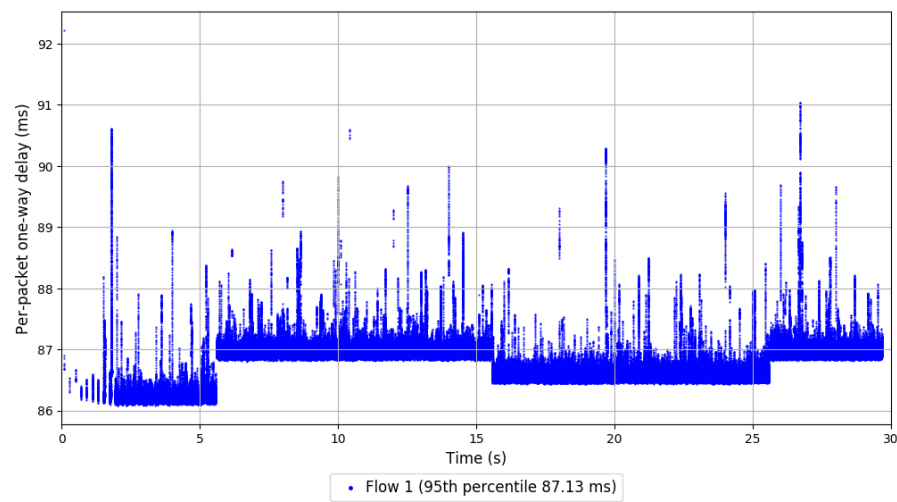
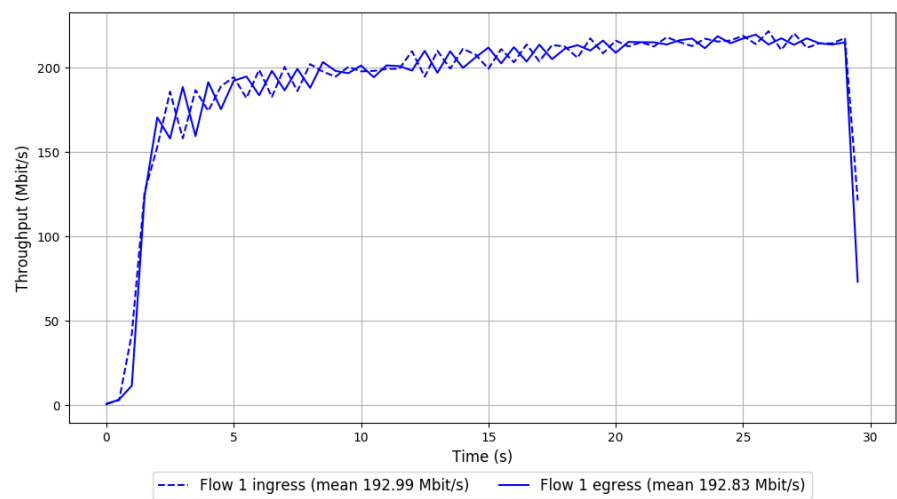
-- Flow 1:

Average throughput: 192.83 Mbit/s

95th percentile per-packet one-way delay: 87.133 ms

Loss rate: 0.76%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-02-27 08:21:19

End at: 2018-02-27 08:21:49

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.50 Mbit/s

95th percentile per-packet one-way delay: 87.970 ms

Loss rate: 0.75%

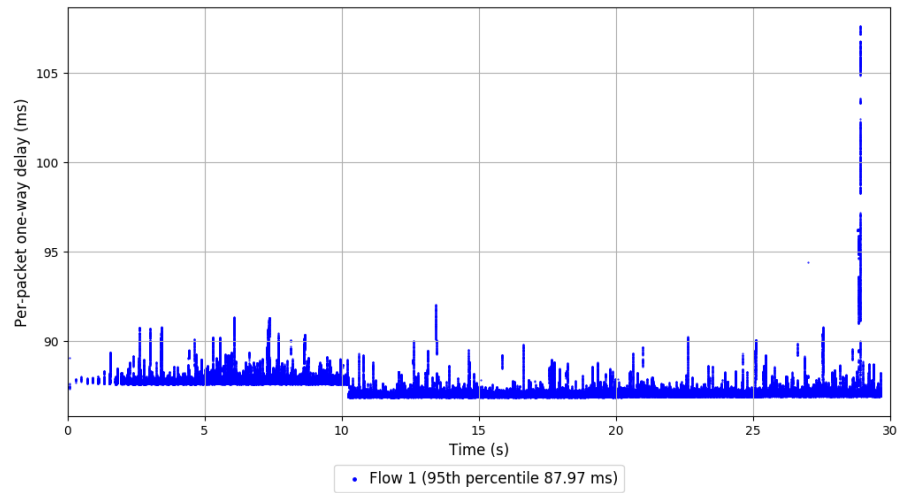
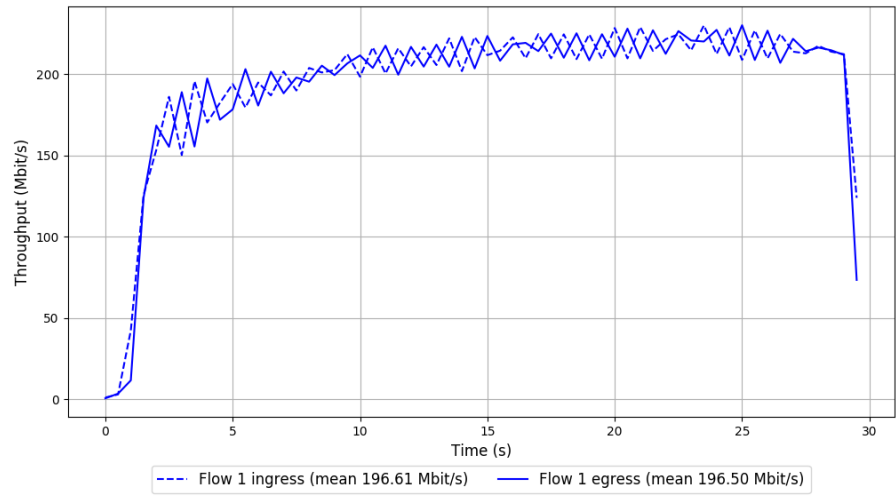
-- Flow 1:

Average throughput: 196.50 Mbit/s

95th percentile per-packet one-way delay: 87.970 ms

Loss rate: 0.75%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-02-27 08:36:31

End at: 2018-02-27 08:37:01

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.89 Mbit/s

95th percentile per-packet one-way delay: 115.352 ms

Loss rate: 0.78%

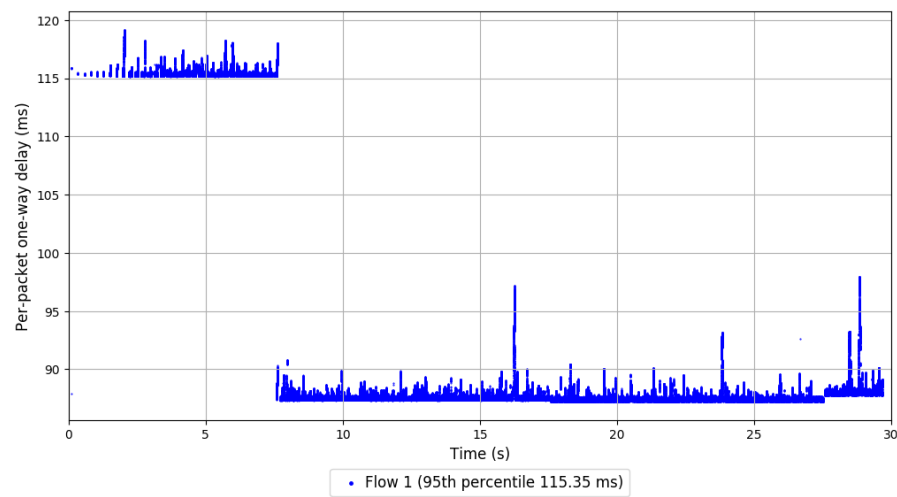
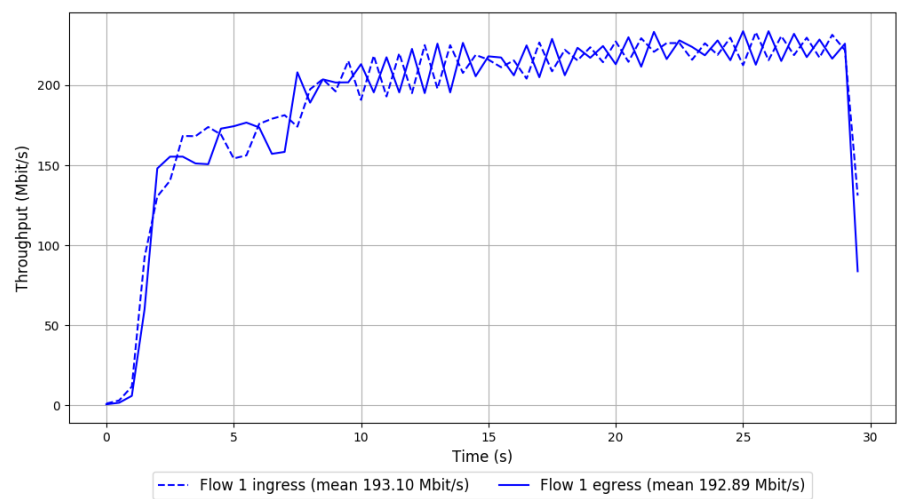
-- Flow 1:

Average throughput: 192.89 Mbit/s

95th percentile per-packet one-way delay: 115.352 ms

Loss rate: 0.78%

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

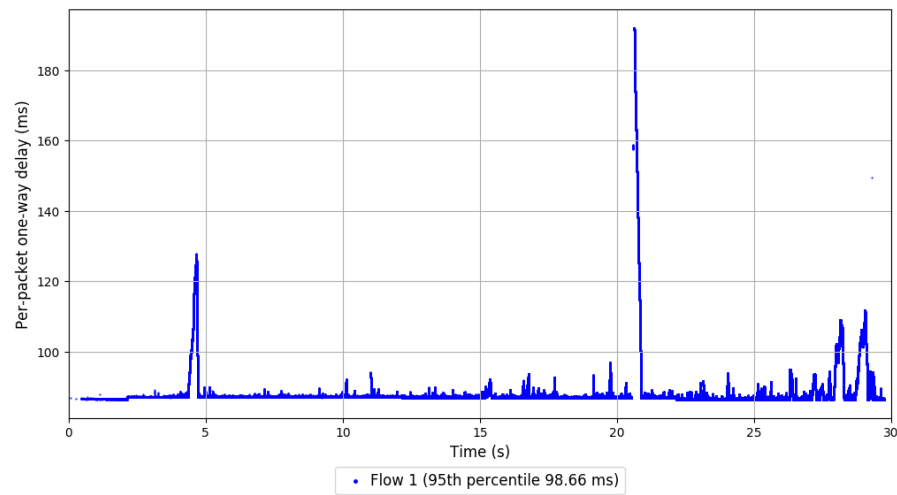
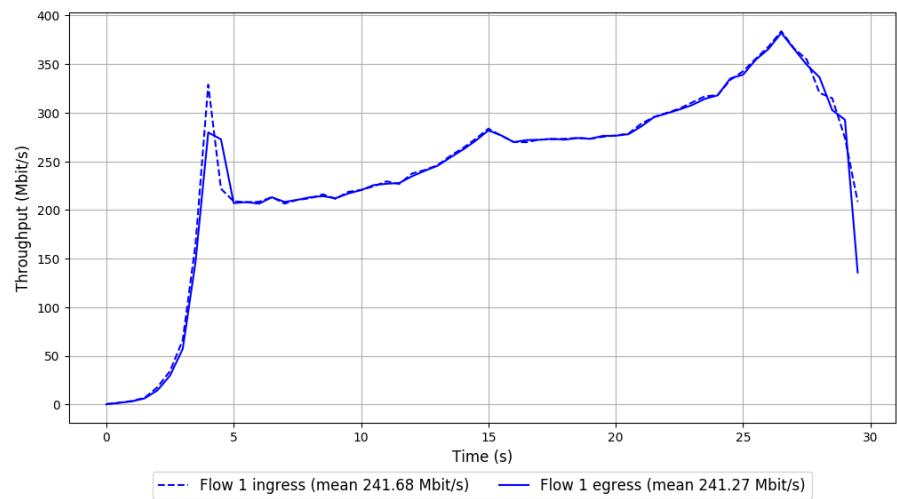


```
Run 1: Statistics of Vivace-latency

Start at: 2018-02-27 06:12:02
End at: 2018-02-27 06:12:32

# Below is generated by plot.py at 2018-02-27 12:44:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 241.27 Mbit/s
95th percentile per-packet one-way delay: 98.661 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 241.27 Mbit/s
95th percentile per-packet one-way delay: 98.661 ms
Loss rate: 0.84%
```


Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

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

End at: 2018-02-27 06:27:46

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.94 Mbit/s

95th percentile per-packet one-way delay: 263.654 ms

Loss rate: 3.34%

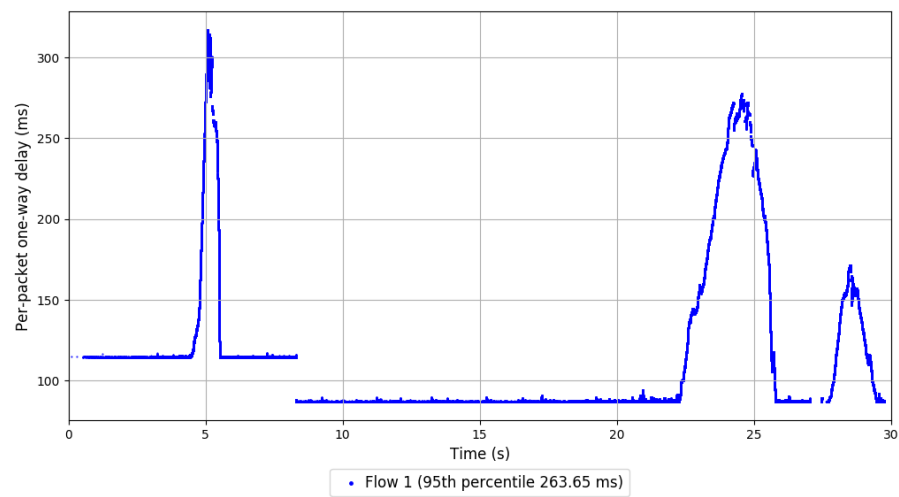
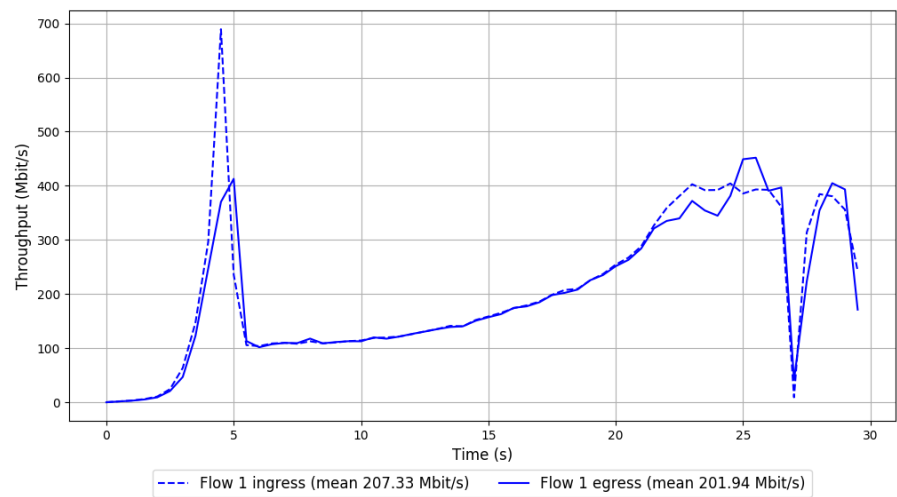
-- Flow 1:

Average throughput: 201.94 Mbit/s

95th percentile per-packet one-way delay: 263.654 ms

Loss rate: 3.34%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-02-27 06:42:47

End at: 2018-02-27 06:43:17

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.10 Mbit/s

95th percentile per-packet one-way delay: 91.717 ms

Loss rate: 0.90%

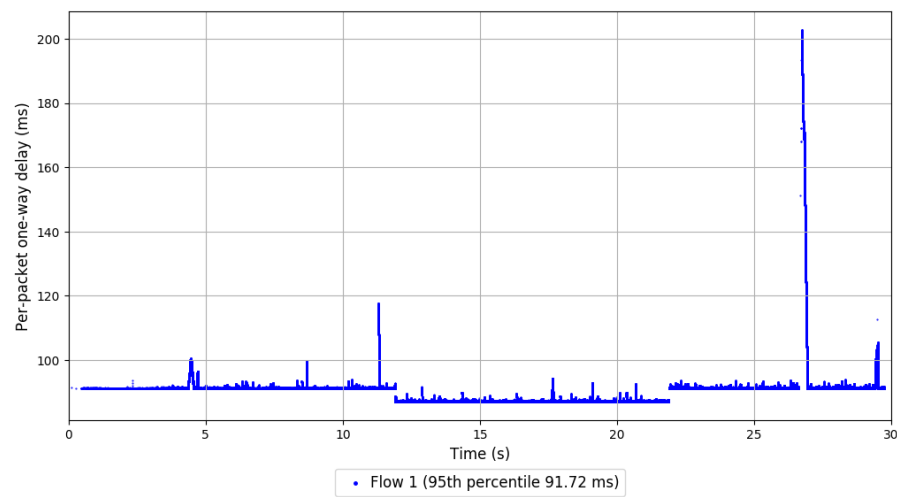
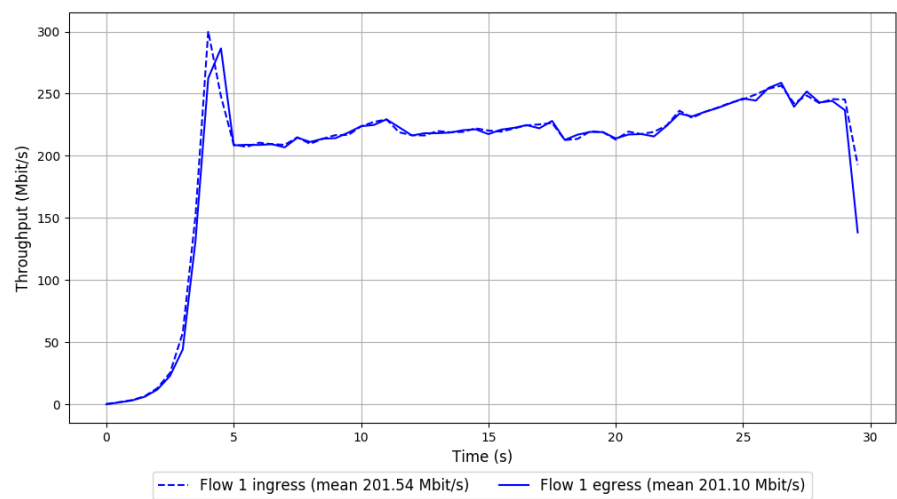
-- Flow 1:

Average throughput: 201.10 Mbit/s

95th percentile per-packet one-way delay: 91.717 ms

Loss rate: 0.90%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-02-27 06:57:47

End at: 2018-02-27 06:58:17

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.27 Mbit/s

95th percentile per-packet one-way delay: 98.955 ms

Loss rate: 1.59%

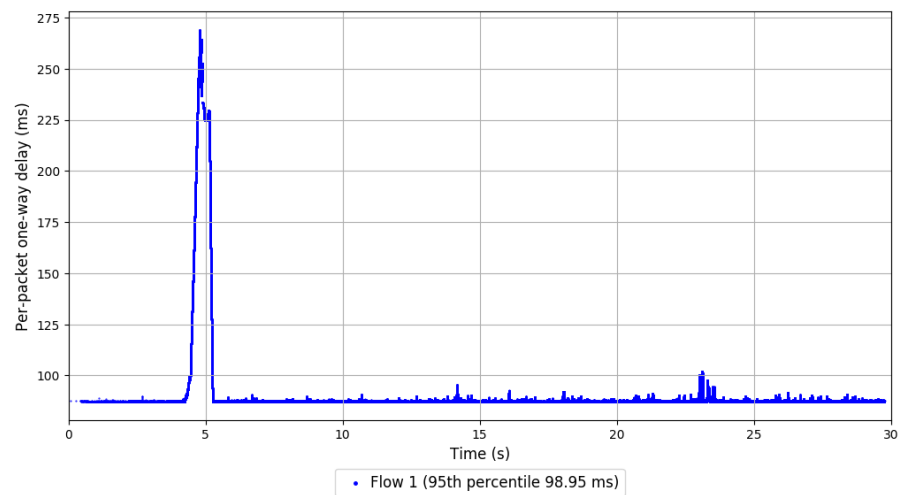
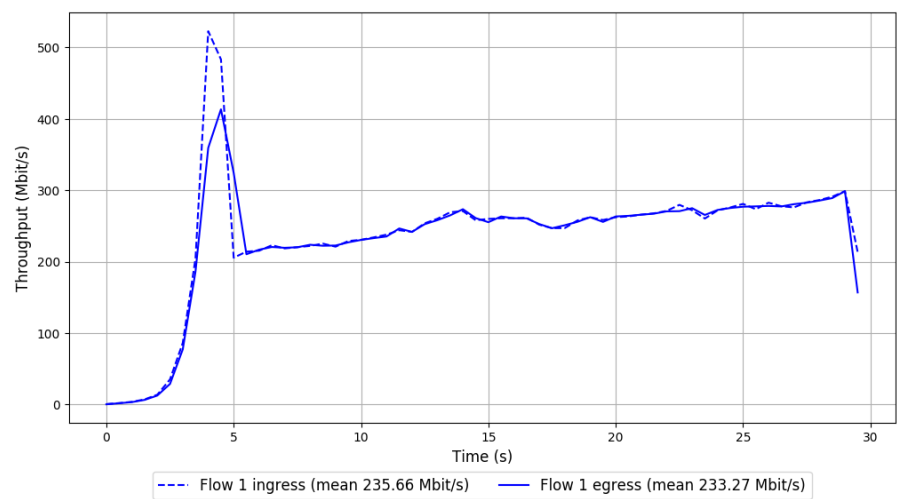
-- Flow 1:

Average throughput: 233.27 Mbit/s

95th percentile per-packet one-way delay: 98.955 ms

Loss rate: 1.59%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-02-27 07:12:58

End at: 2018-02-27 07:13:28

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.69 Mbit/s

95th percentile per-packet one-way delay: 247.965 ms

Loss rate: 1.27%

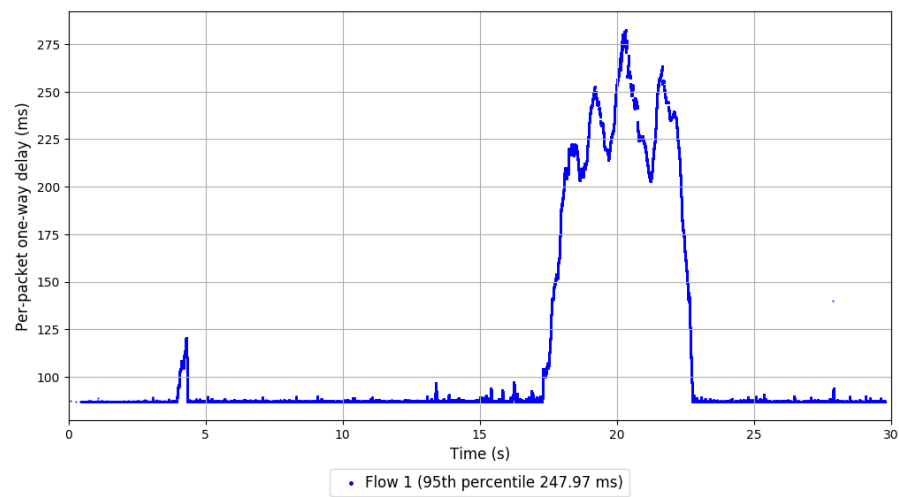
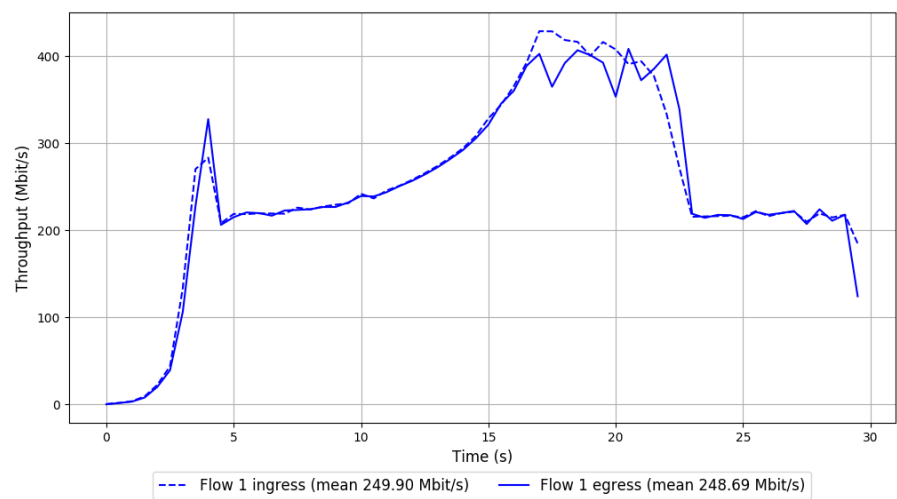
-- Flow 1:

Average throughput: 248.69 Mbit/s

95th percentile per-packet one-way delay: 247.965 ms

Loss rate: 1.27%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-02-27 07:28:18

End at: 2018-02-27 07:28:48

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.81 Mbit/s

95th percentile per-packet one-way delay: 252.260 ms

Loss rate: 0.70%

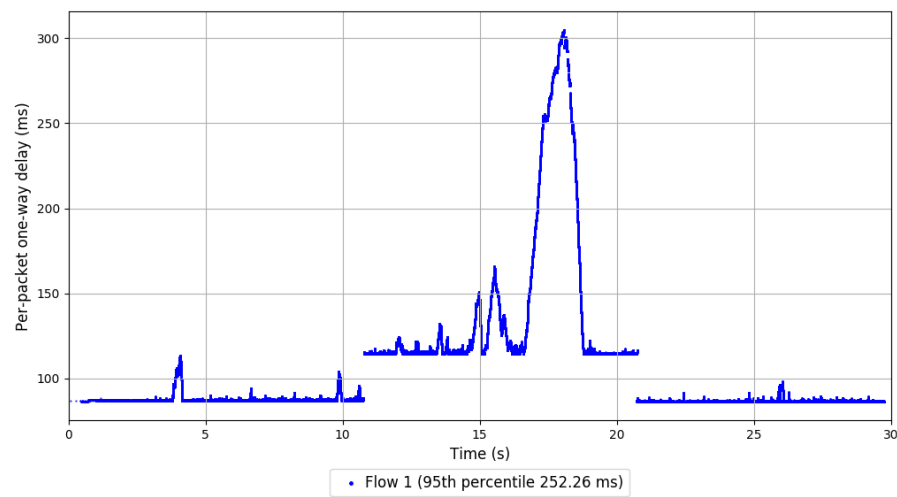
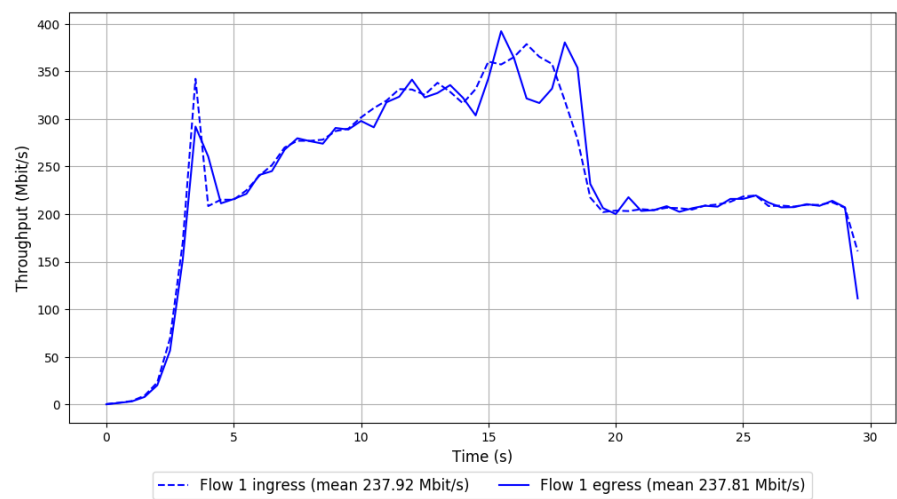
-- Flow 1:

Average throughput: 237.81 Mbit/s

95th percentile per-packet one-way delay: 252.260 ms

Loss rate: 0.70%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-02-27 07:44:05

End at: 2018-02-27 07:44:35

Below is generated by plot.py at 2018-02-27 12:44:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.26 Mbit/s

95th percentile per-packet one-way delay: 146.081 ms

Loss rate: 0.83%

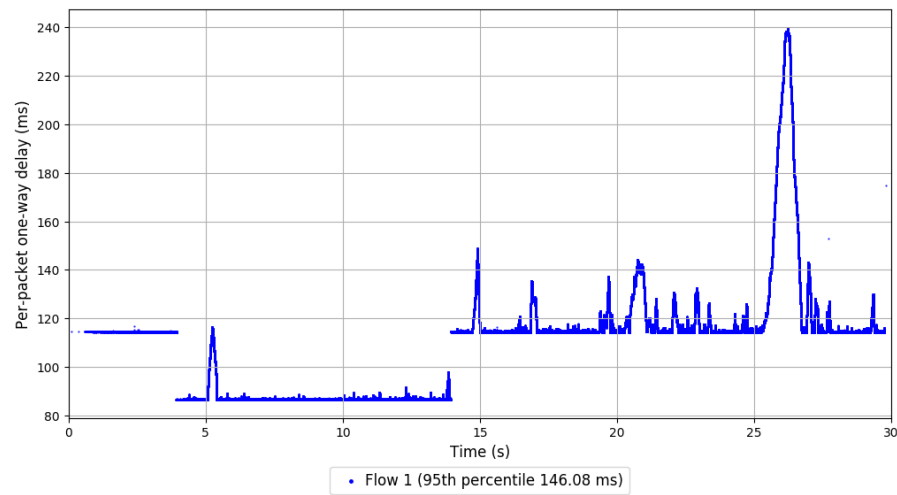
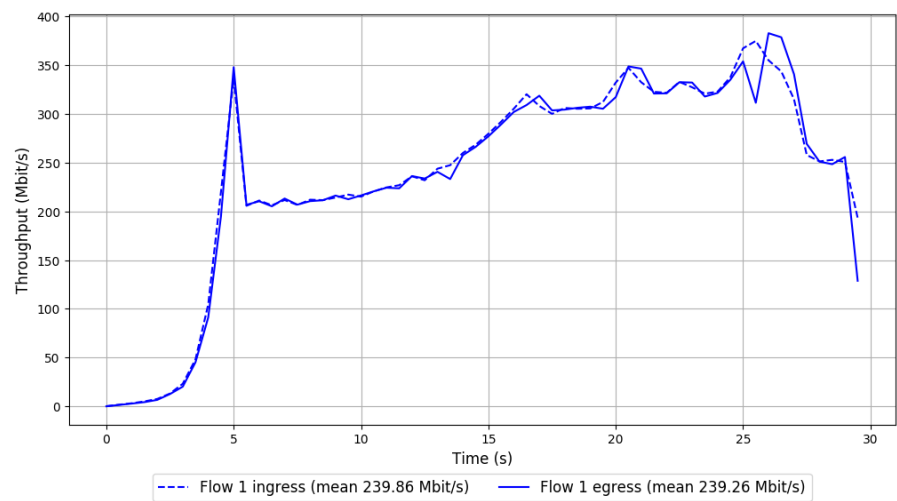
-- Flow 1:

Average throughput: 239.26 Mbit/s

95th percentile per-packet one-way delay: 146.081 ms

Loss rate: 0.83%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-02-27 07:59:11

End at: 2018-02-27 07:59:41

Below is generated by plot.py at 2018-02-27 12:44:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 242.01 Mbit/s

95th percentile per-packet one-way delay: 109.801 ms

Loss rate: 0.74%

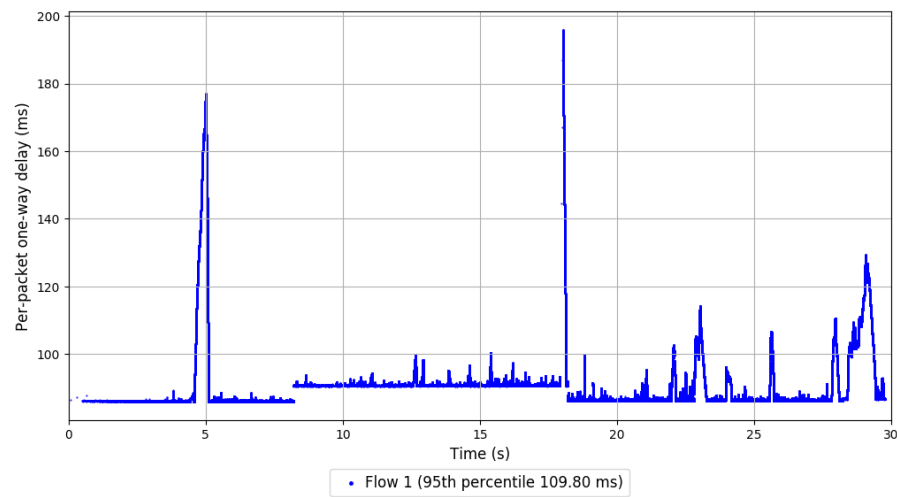
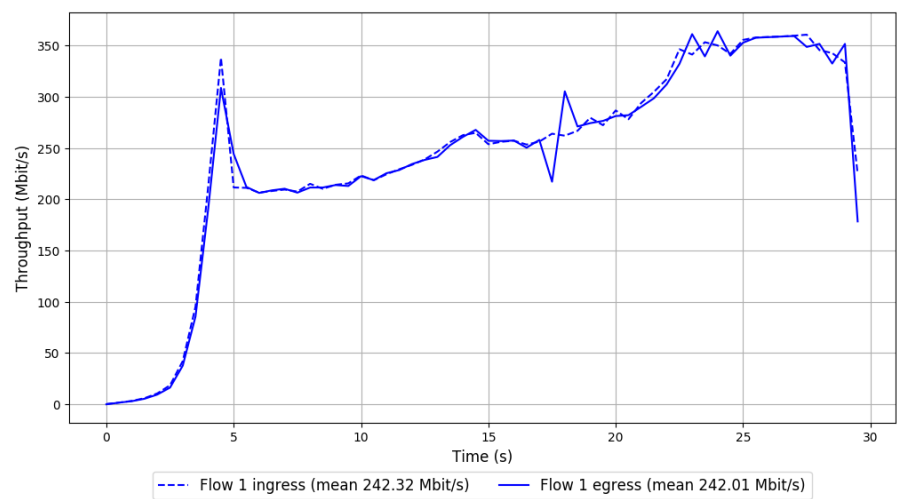
-- Flow 1:

Average throughput: 242.01 Mbit/s

95th percentile per-packet one-way delay: 109.801 ms

Loss rate: 0.74%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-02-27 08:14:21

End at: 2018-02-27 08:14:51

Below is generated by plot.py at 2018-02-27 12:44:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.01 Mbit/s

95th percentile per-packet one-way delay: 251.171 ms

Loss rate: 2.69%

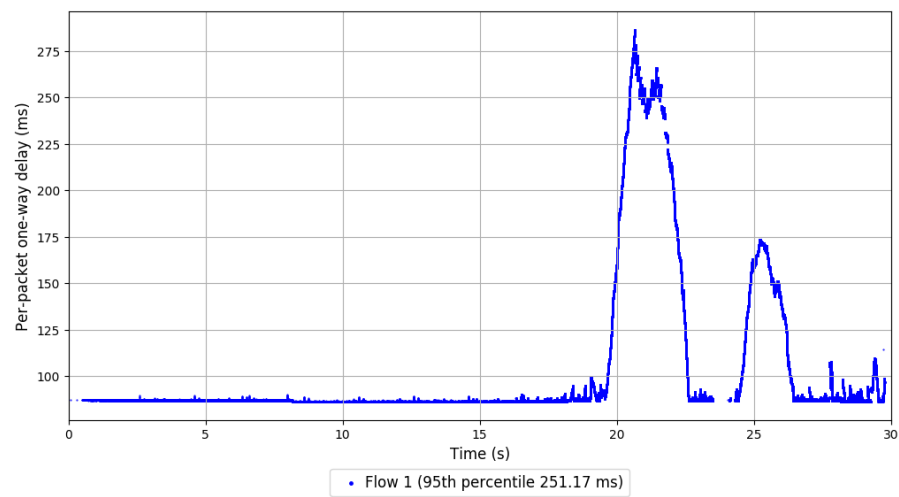
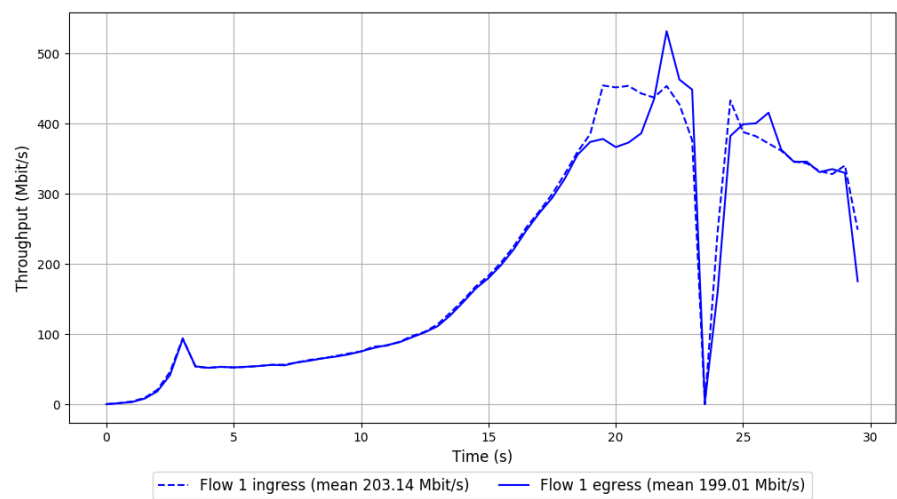
-- Flow 1:

Average throughput: 199.01 Mbit/s

95th percentile per-packet one-way delay: 251.171 ms

Loss rate: 2.69%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-02-27 08:29:42

End at: 2018-02-27 08:30:12

Below is generated by plot.py at 2018-02-27 12:45:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.57 Mbit/s

95th percentile per-packet one-way delay: 114.952 ms

Loss rate: 0.86%

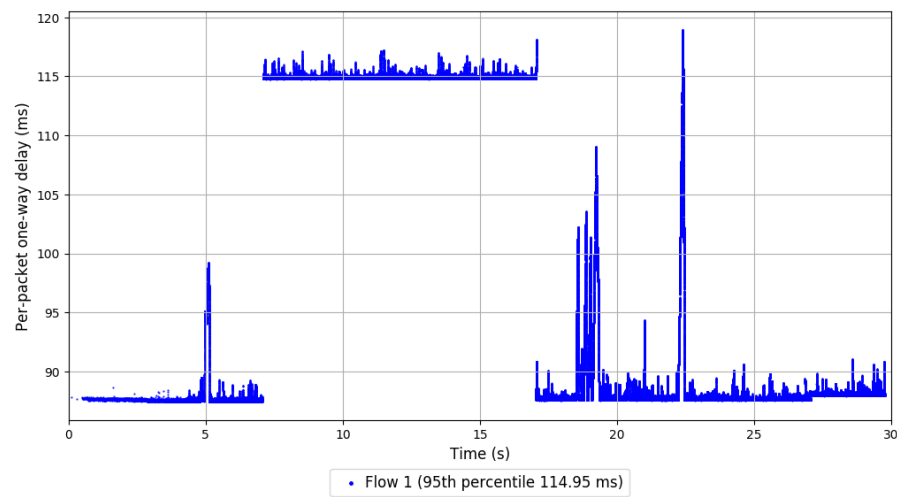
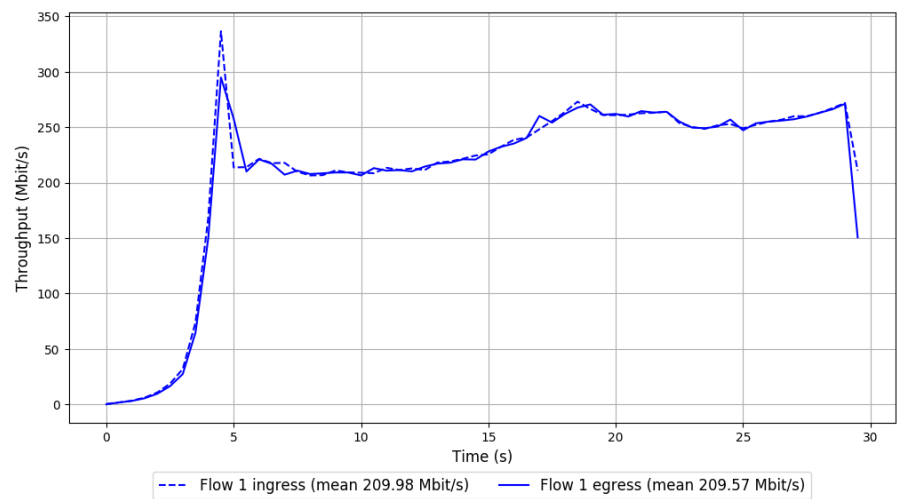
-- Flow 1:

Average throughput: 209.57 Mbit/s

95th percentile per-packet one-way delay: 114.952 ms

Loss rate: 0.86%

Run 10: Report of Vivace-latency — Data Link

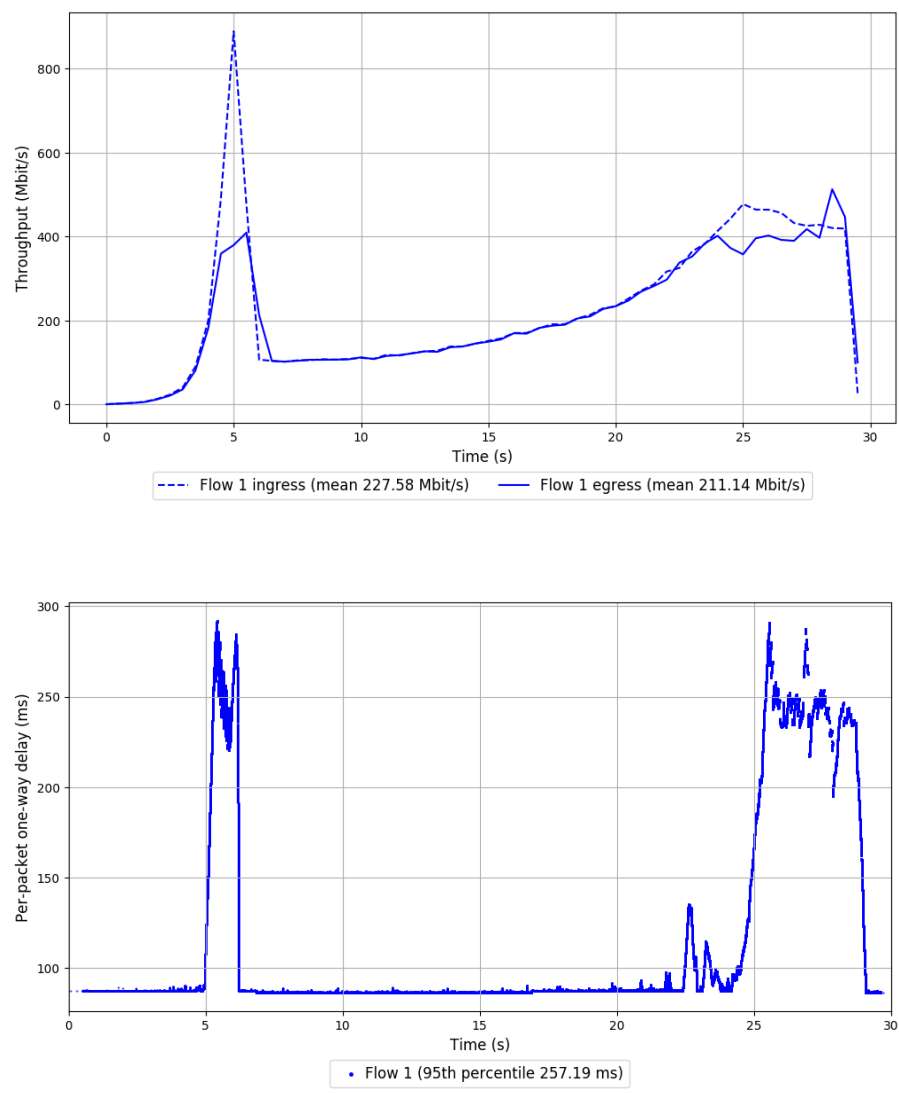


```
Run 1: Statistics of Vivace-loss

Start at: 2018-02-27 06:17:28
End at: 2018-02-27 06:17:58

# Below is generated by plot.py at 2018-02-27 12:46:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 211.14 Mbit/s
95th percentile per-packet one-way delay: 257.194 ms
Loss rate: 7.23%
-- Flow 1:
Average throughput: 211.14 Mbit/s
95th percentile per-packet one-way delay: 257.194 ms
Loss rate: 7.23%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-02-27 06:32:49

End at: 2018-02-27 06:33:19

Below is generated by plot.py at 2018-02-27 12:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.90 Mbit/s

95th percentile per-packet one-way delay: 254.739 ms

Loss rate: 2.69%

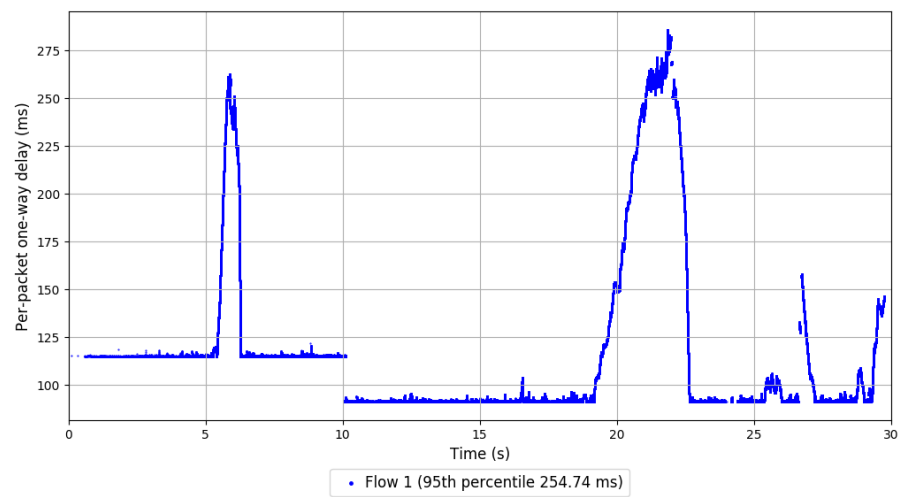
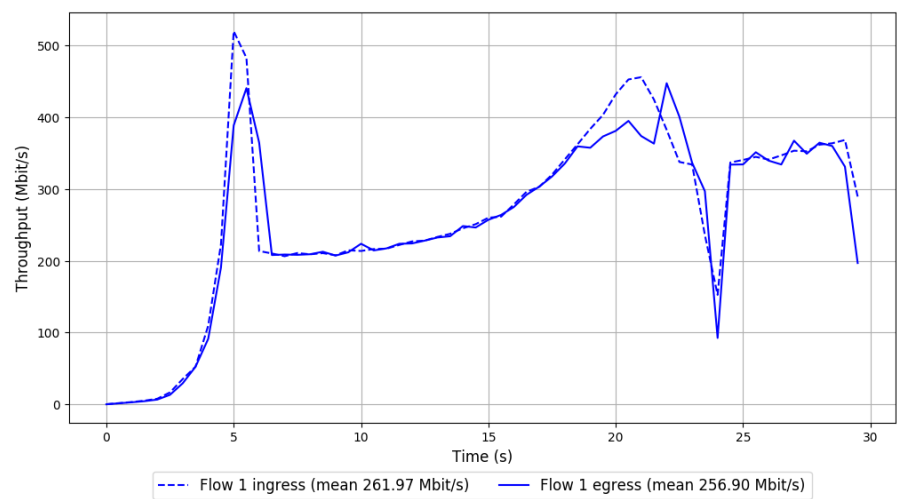
-- Flow 1:

Average throughput: 256.90 Mbit/s

95th percentile per-packet one-way delay: 254.739 ms

Loss rate: 2.69%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-02-27 06:48:09

End at: 2018-02-27 06:48:39

Below is generated by plot.py at 2018-02-27 12:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 215.71 Mbit/s

95th percentile per-packet one-way delay: 259.318 ms

Loss rate: 5.81%

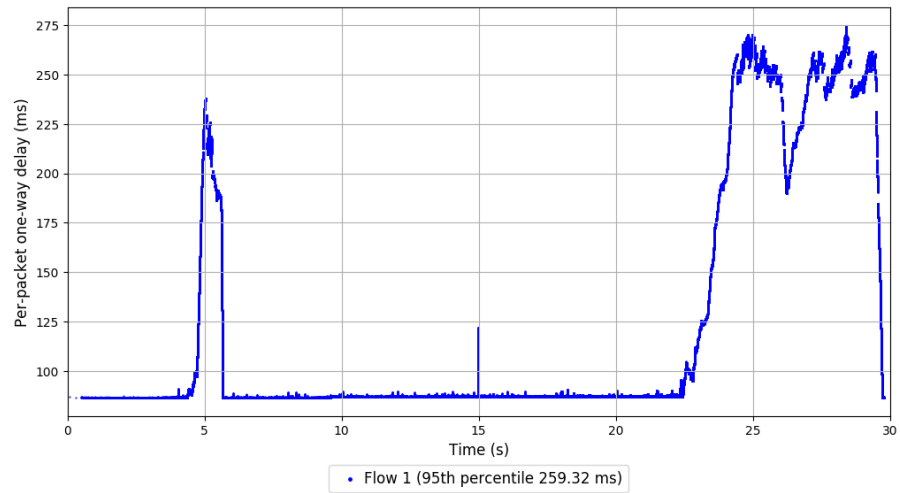
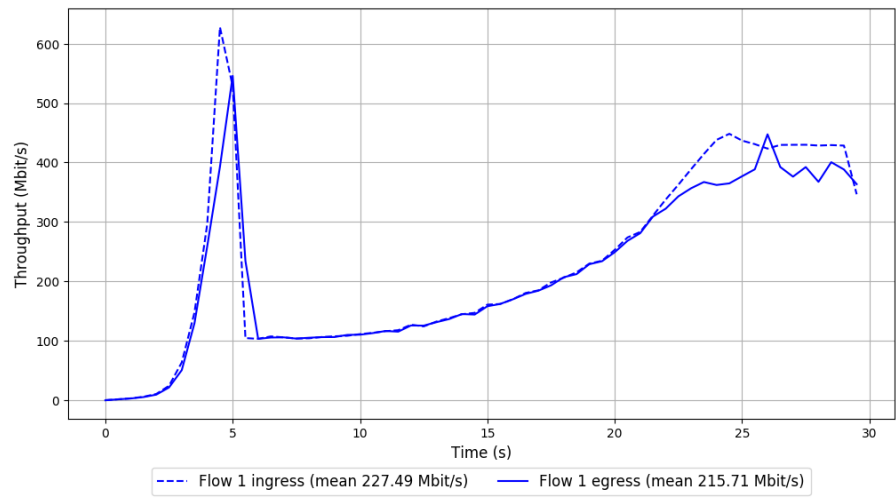
-- Flow 1:

Average throughput: 215.71 Mbit/s

95th percentile per-packet one-way delay: 259.318 ms

Loss rate: 5.81%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-02-27 07:03:09

End at: 2018-02-27 07:03:39

Below is generated by plot.py at 2018-02-27 12:50:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.45 Mbit/s

95th percentile per-packet one-way delay: 265.806 ms

Loss rate: 7.91%

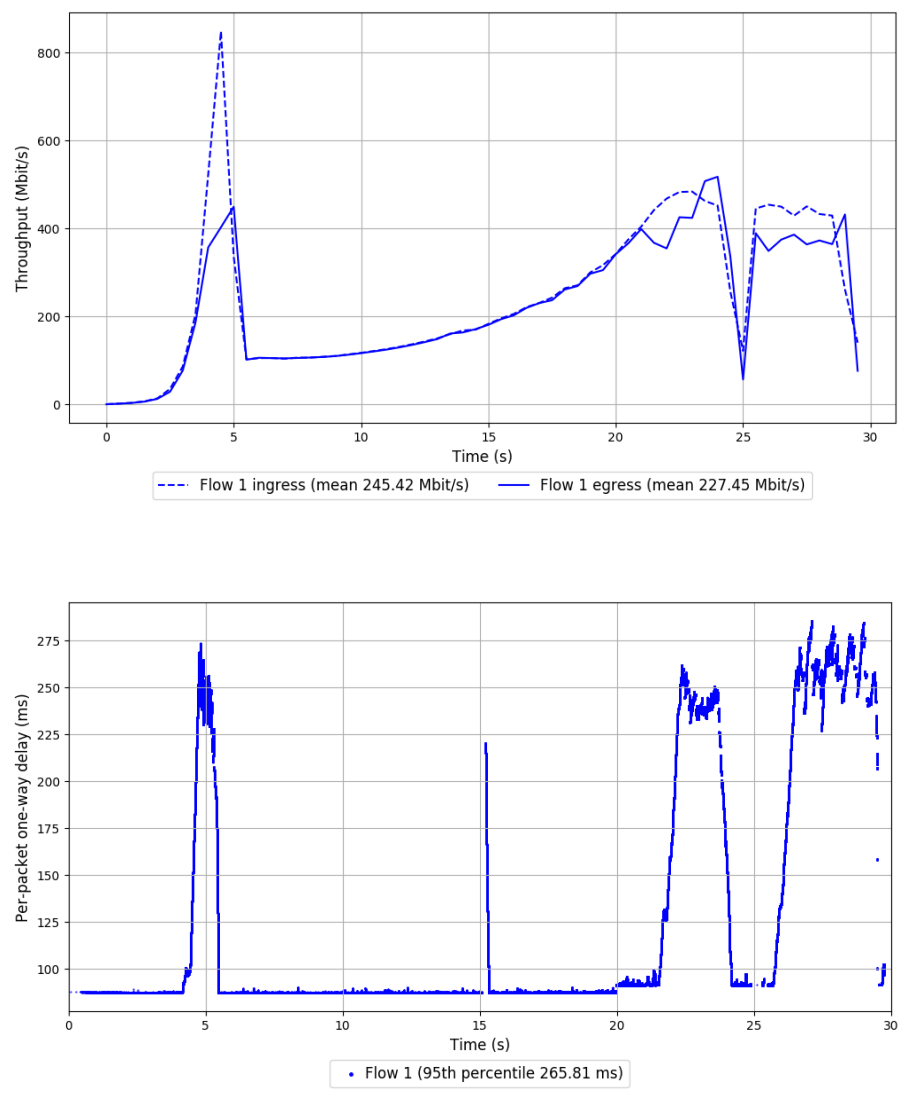
-- Flow 1:

Average throughput: 227.45 Mbit/s

95th percentile per-packet one-way delay: 265.806 ms

Loss rate: 7.91%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-02-27 07:18:27

End at: 2018-02-27 07:18:57

Below is generated by plot.py at 2018-02-27 12:51:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.05 Mbit/s

95th percentile per-packet one-way delay: 265.827 ms

Loss rate: 5.60%

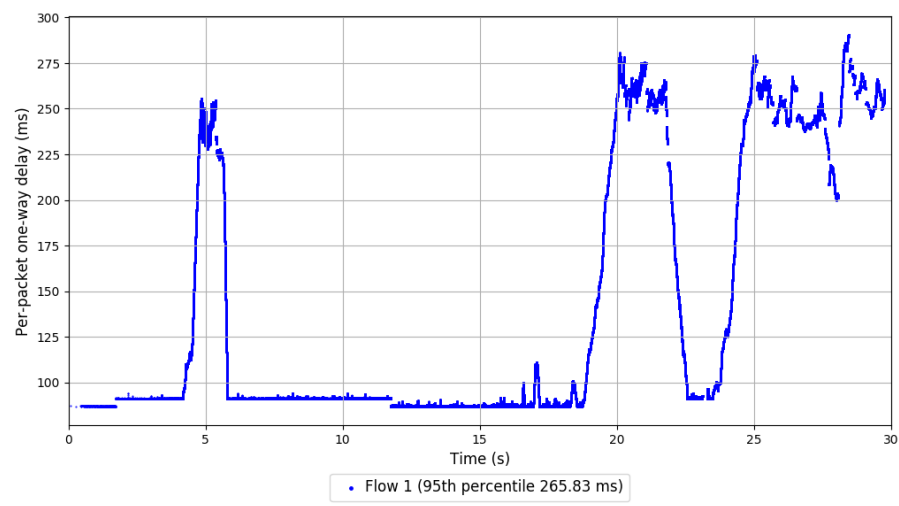
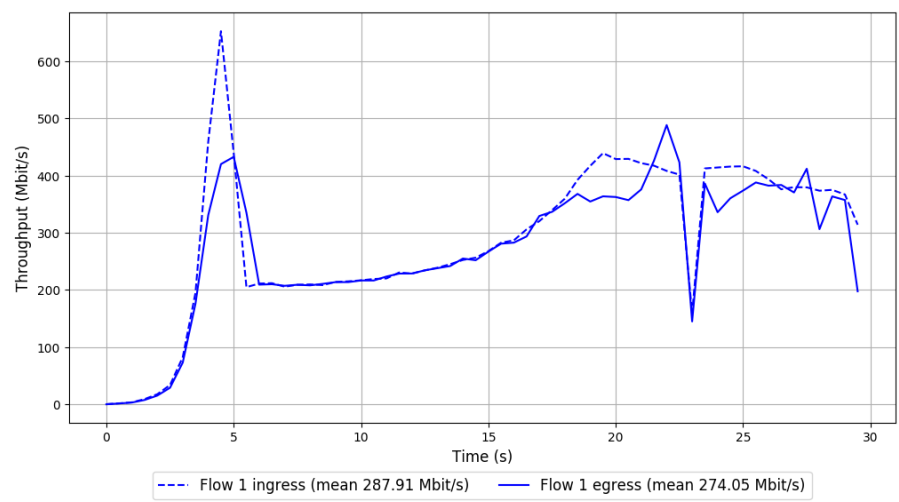
-- Flow 1:

Average throughput: 274.05 Mbit/s

95th percentile per-packet one-way delay: 265.827 ms

Loss rate: 5.60%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-02-27 07:33:48

End at: 2018-02-27 07:34:18

Below is generated by plot.py at 2018-02-27 12:51:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.41 Mbit/s

95th percentile per-packet one-way delay: 255.817 ms

Loss rate: 10.70%

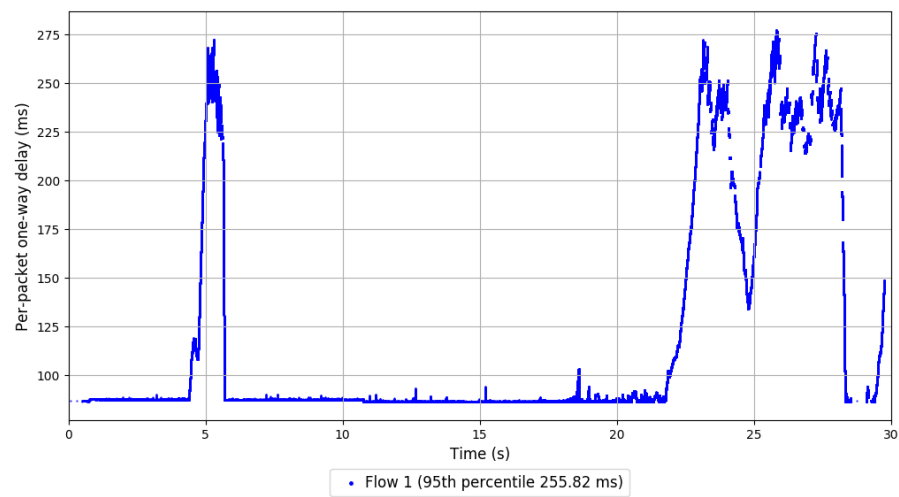
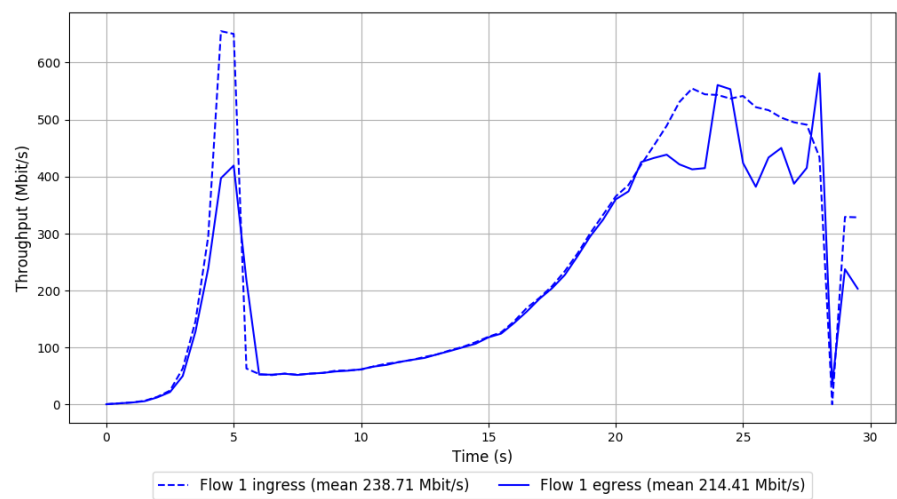
-- Flow 1:

Average throughput: 214.41 Mbit/s

95th percentile per-packet one-way delay: 255.817 ms

Loss rate: 10.70%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-02-27 07:49:29

End at: 2018-02-27 07:49:59

Below is generated by plot.py at 2018-02-27 12:51:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.26 Mbit/s

95th percentile per-packet one-way delay: 266.909 ms

Loss rate: 10.94%

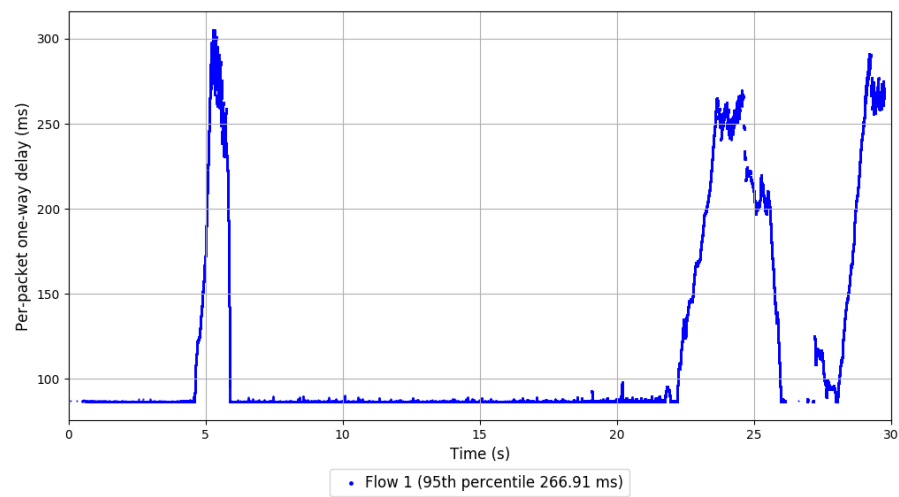
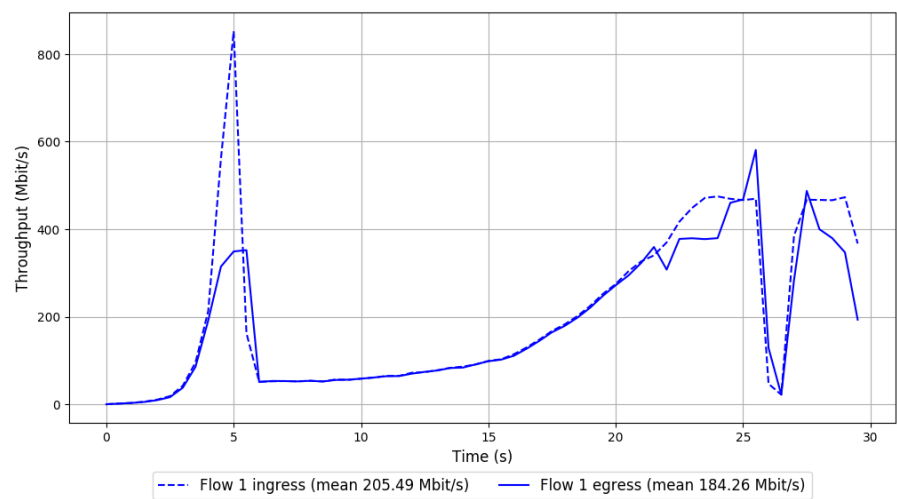
-- Flow 1:

Average throughput: 184.26 Mbit/s

95th percentile per-packet one-way delay: 266.909 ms

Loss rate: 10.94%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-02-27 08:04:38

End at: 2018-02-27 08:05:08

Below is generated by plot.py at 2018-02-27 12:51:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.34 Mbit/s

95th percentile per-packet one-way delay: 258.334 ms

Loss rate: 8.33%

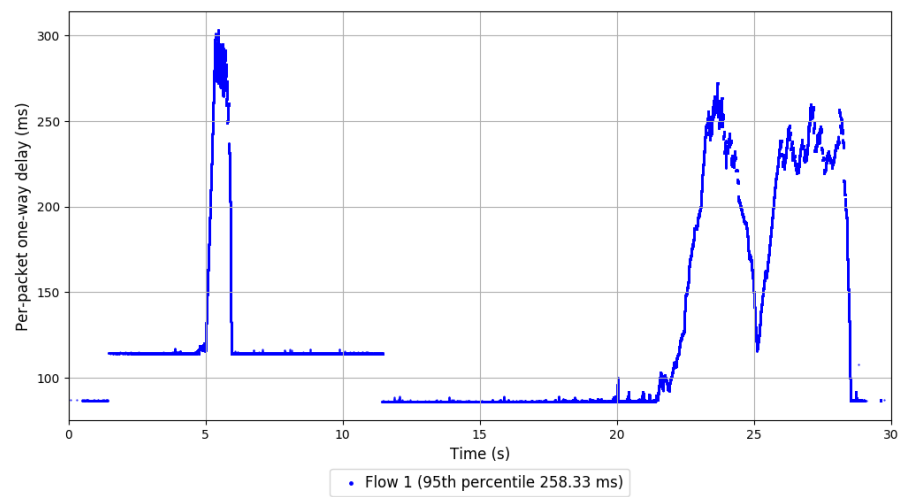
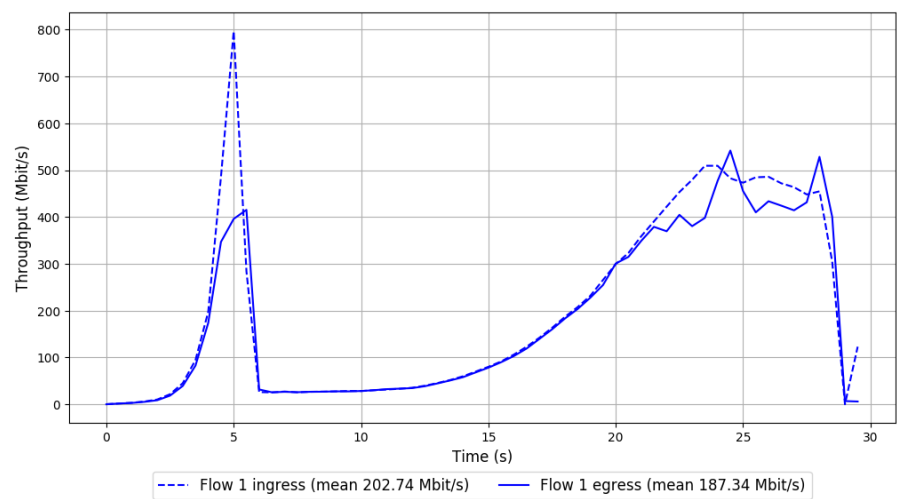
-- Flow 1:

Average throughput: 187.34 Mbit/s

95th percentile per-packet one-way delay: 258.334 ms

Loss rate: 8.33%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-02-27 08:19:40

End at: 2018-02-27 08:20:10

Below is generated by plot.py at 2018-02-27 12:52:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.93 Mbit/s

95th percentile per-packet one-way delay: 261.336 ms

Loss rate: 8.57%

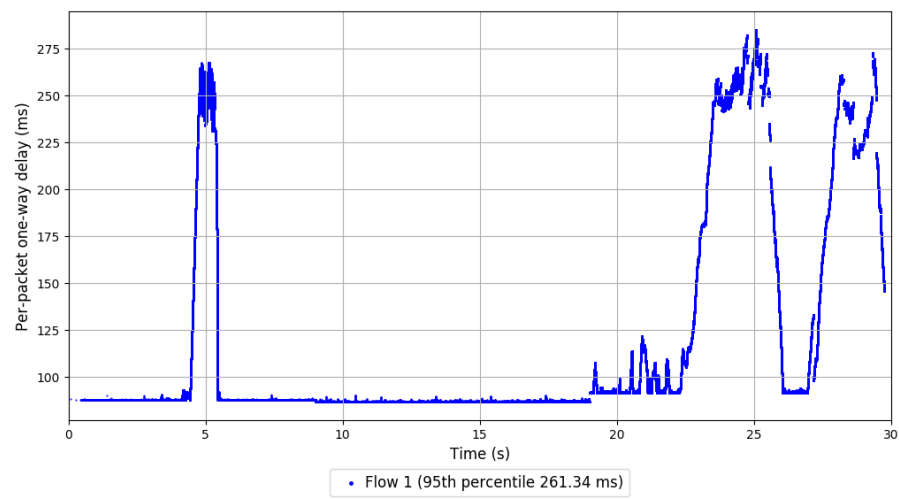
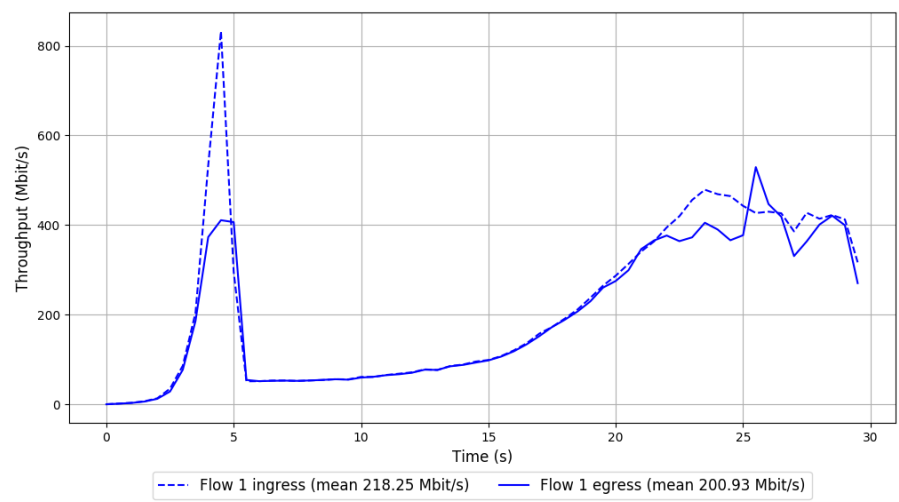
-- Flow 1:

Average throughput: 200.93 Mbit/s

95th percentile per-packet one-way delay: 261.336 ms

Loss rate: 8.57%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-02-27 08:34:57

End at: 2018-02-27 08:35:27

Below is generated by plot.py at 2018-02-27 12:53:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.01 Mbit/s

95th percentile per-packet one-way delay: 282.641 ms

Loss rate: 9.68%

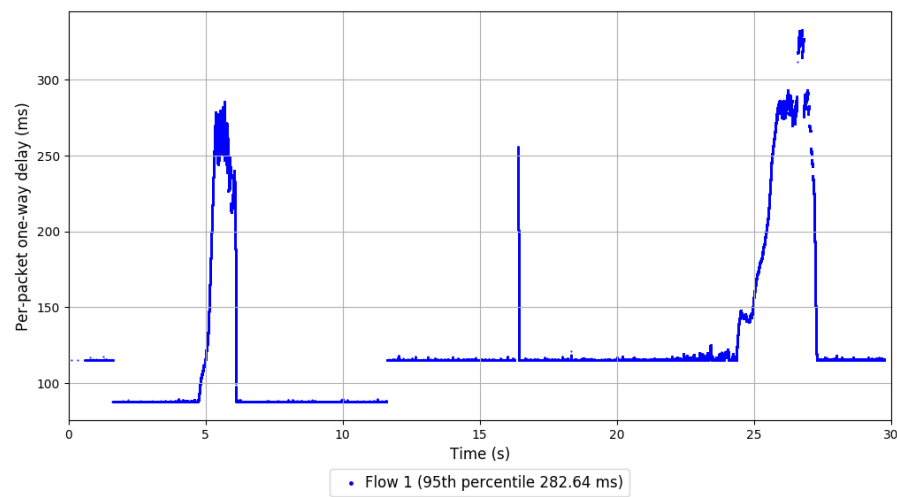
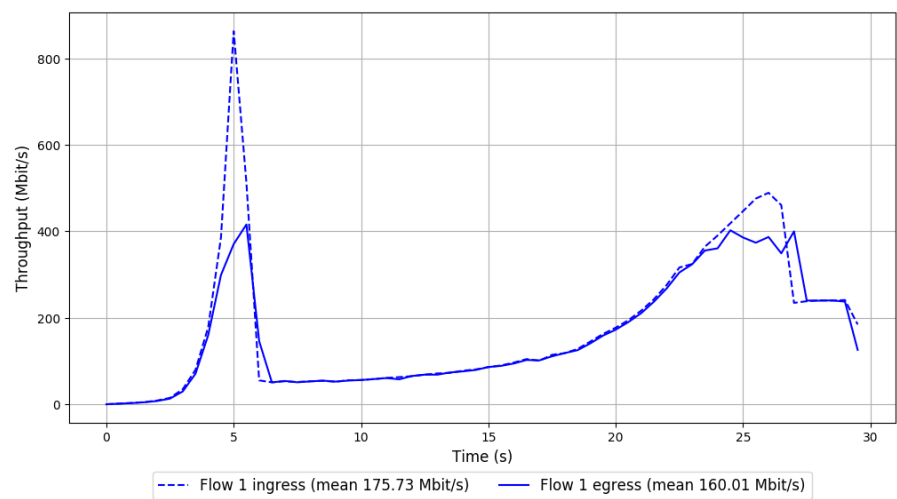
-- Flow 1:

Average throughput: 160.01 Mbit/s

95th percentile per-packet one-way delay: 282.641 ms

Loss rate: 9.68%

Run 10: Report of Vivace-loss — Data Link

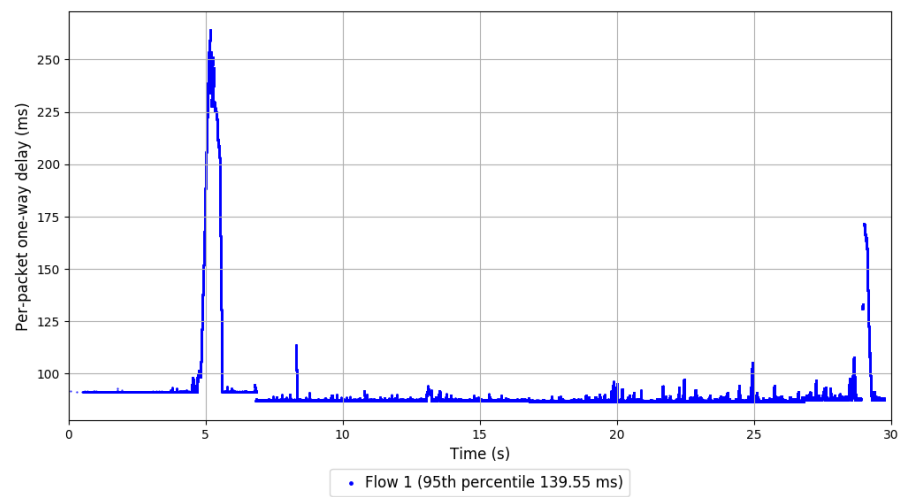
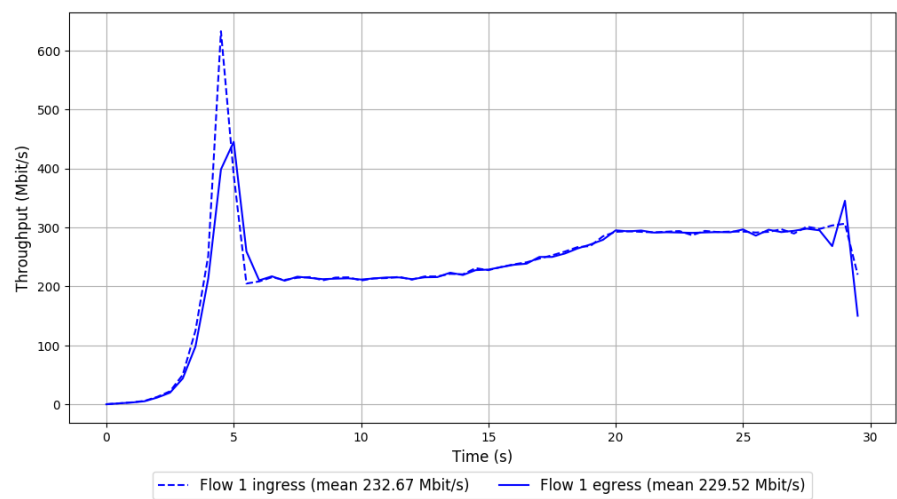


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-02-27 06:13:48
End at: 2018-02-27 06:14:18

# Below is generated by plot.py at 2018-02-27 12:56:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 229.52 Mbit/s
95th percentile per-packet one-way delay: 139.551 ms
Loss rate: 2.03%
-- Flow 1:
Average throughput: 229.52 Mbit/s
95th percentile per-packet one-way delay: 139.551 ms
Loss rate: 2.03%
```


Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-02-27 06:28:59

End at: 2018-02-27 06:29:29

Below is generated by plot.py at 2018-02-27 12:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 323.35 Mbit/s

95th percentile per-packet one-way delay: 253.026 ms

Loss rate: 1.40%

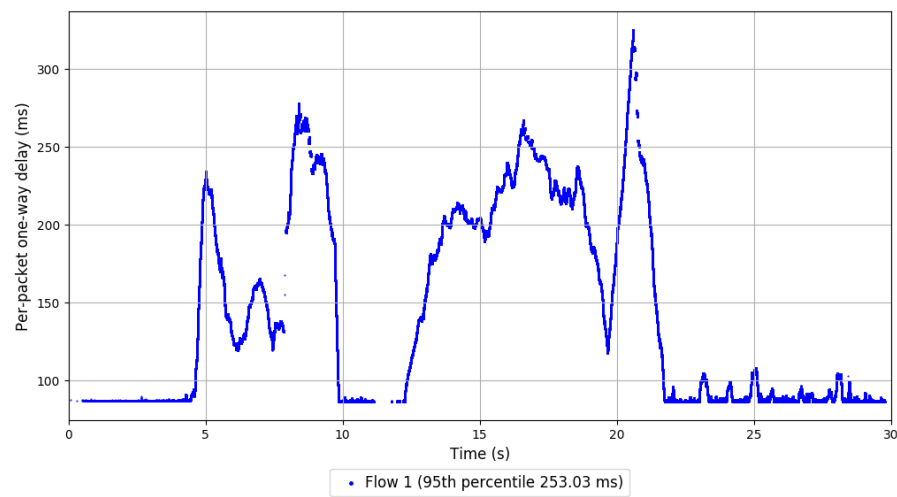
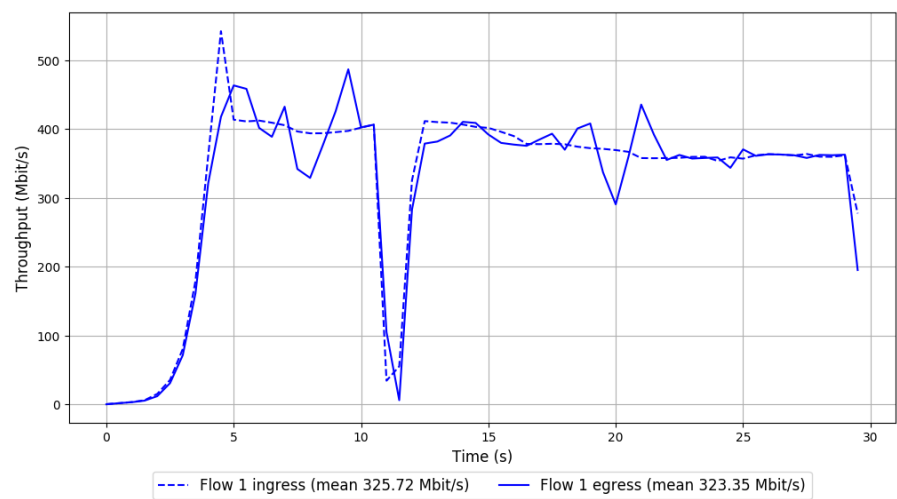
-- Flow 1:

Average throughput: 323.35 Mbit/s

95th percentile per-packet one-way delay: 253.026 ms

Loss rate: 1.40%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-02-27 06:44:29

End at: 2018-02-27 06:44:59

Below is generated by plot.py at 2018-02-27 12:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.23 Mbit/s

95th percentile per-packet one-way delay: 147.054 ms

Loss rate: 1.92%

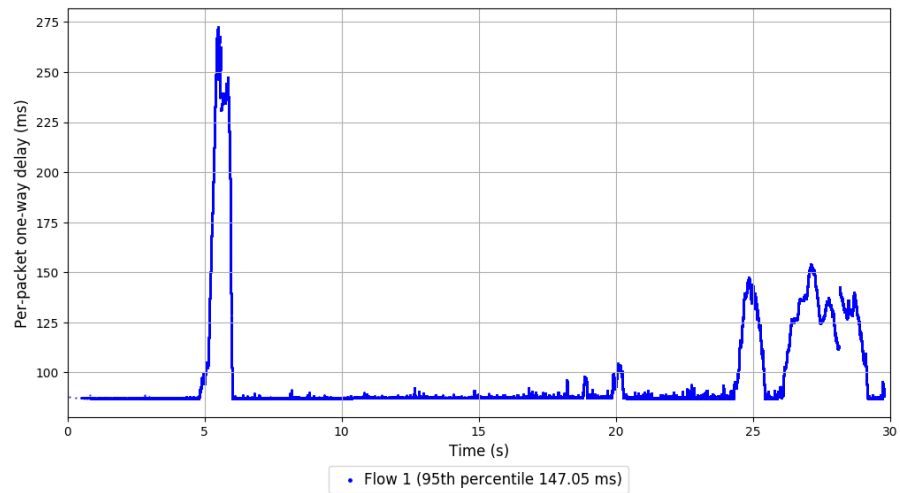
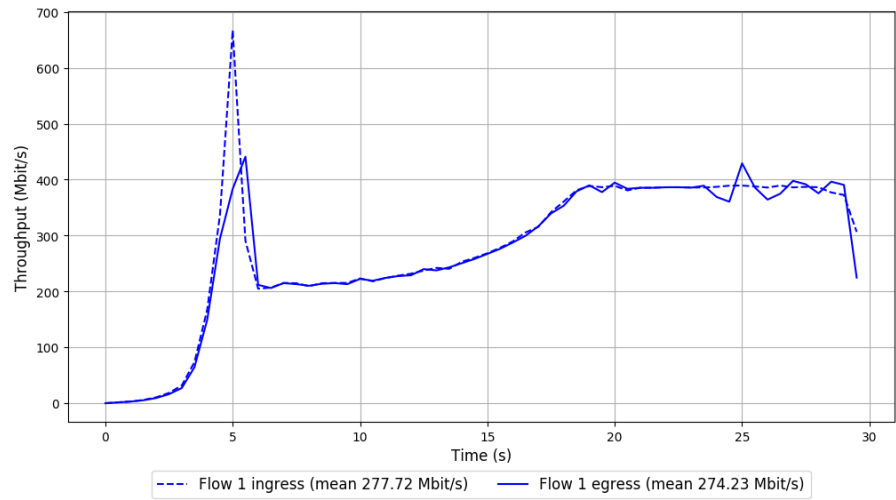
-- Flow 1:

Average throughput: 274.23 Mbit/s

95th percentile per-packet one-way delay: 147.054 ms

Loss rate: 1.92%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-02-27 06:59:28

End at: 2018-02-27 06:59:58

Below is generated by plot.py at 2018-02-27 12:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.11 Mbit/s

95th percentile per-packet one-way delay: 165.700 ms

Loss rate: 2.39%

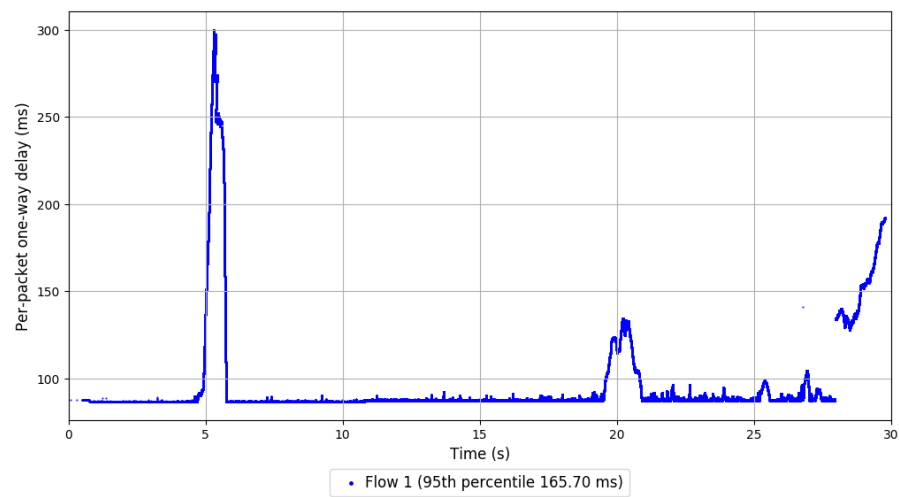
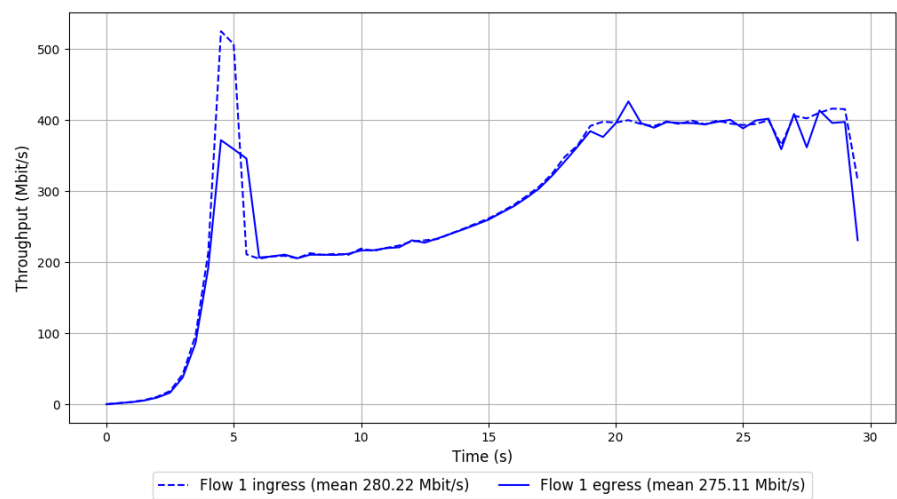
-- Flow 1:

Average throughput: 275.11 Mbit/s

95th percentile per-packet one-way delay: 165.700 ms

Loss rate: 2.39%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-02-27 07:14:45

End at: 2018-02-27 07:15:15

Below is generated by plot.py at 2018-02-27 12:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.20 Mbit/s

95th percentile per-packet one-way delay: 117.901 ms

Loss rate: 0.87%

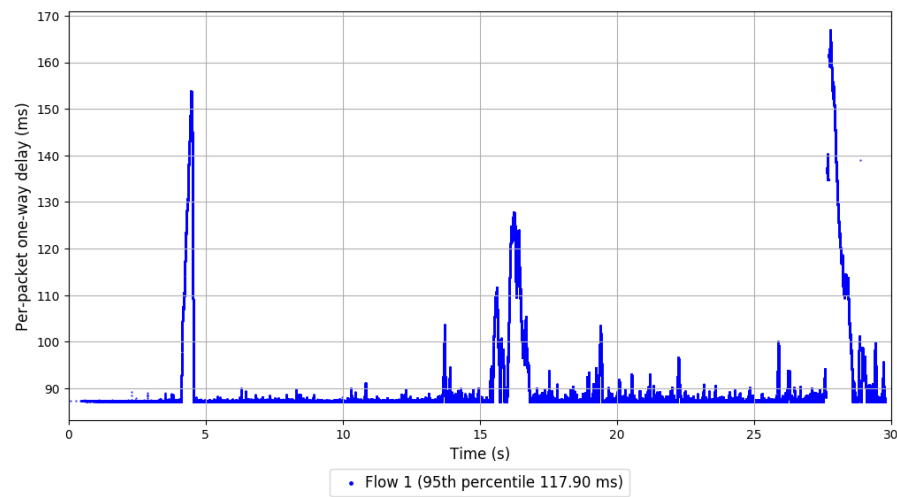
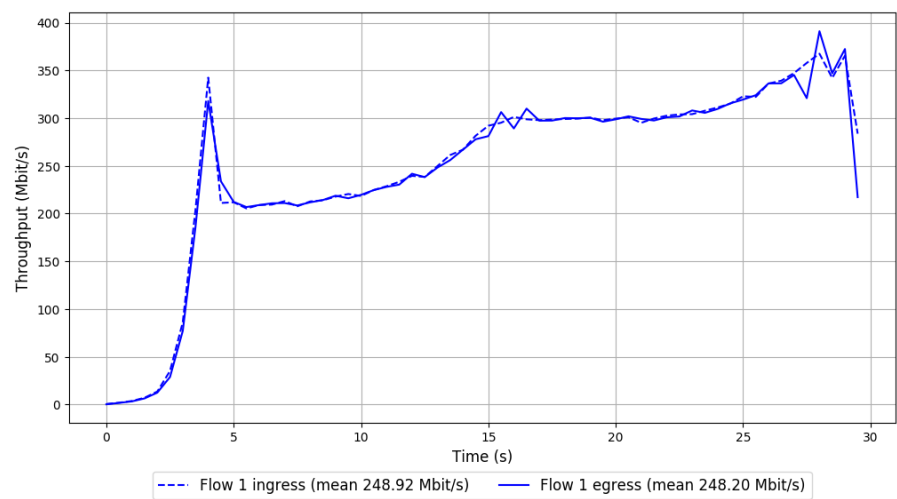
-- Flow 1:

Average throughput: 248.20 Mbit/s

95th percentile per-packet one-way delay: 117.901 ms

Loss rate: 0.87%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-02-27 07:30:05

End at: 2018-02-27 07:30:35

Below is generated by plot.py at 2018-02-27 12:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.63 Mbit/s

95th percentile per-packet one-way delay: 115.444 ms

Loss rate: 2.72%

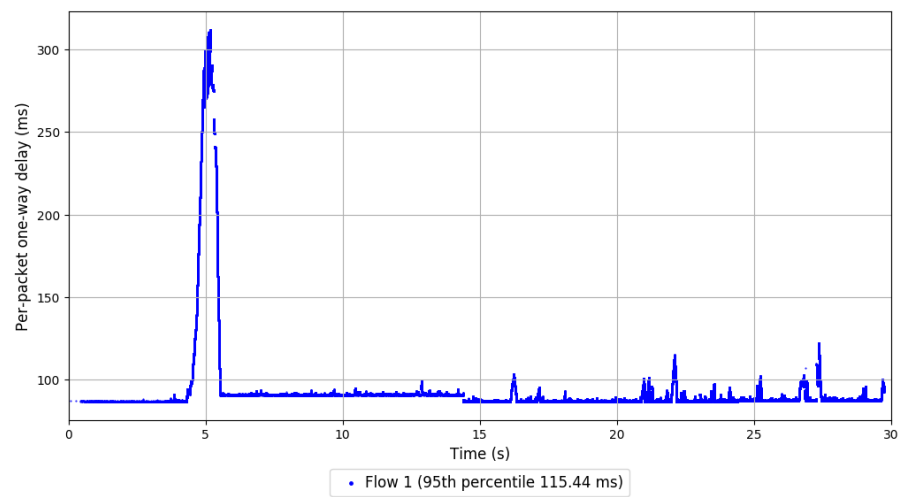
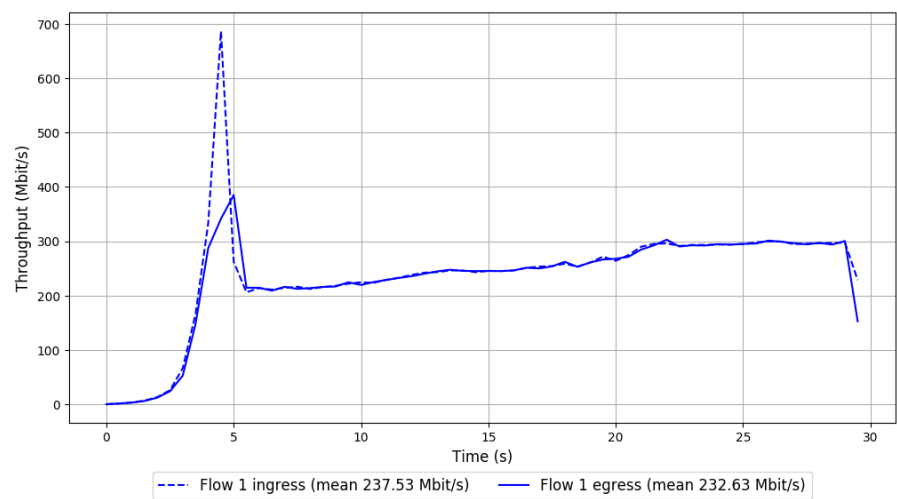
-- Flow 1:

Average throughput: 232.63 Mbit/s

95th percentile per-packet one-way delay: 115.444 ms

Loss rate: 2.72%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-02-27 07:45:51

End at: 2018-02-27 07:46:21

Below is generated by plot.py at 2018-02-27 12:58:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.67 Mbit/s

95th percentile per-packet one-way delay: 145.621 ms

Loss rate: 3.50%

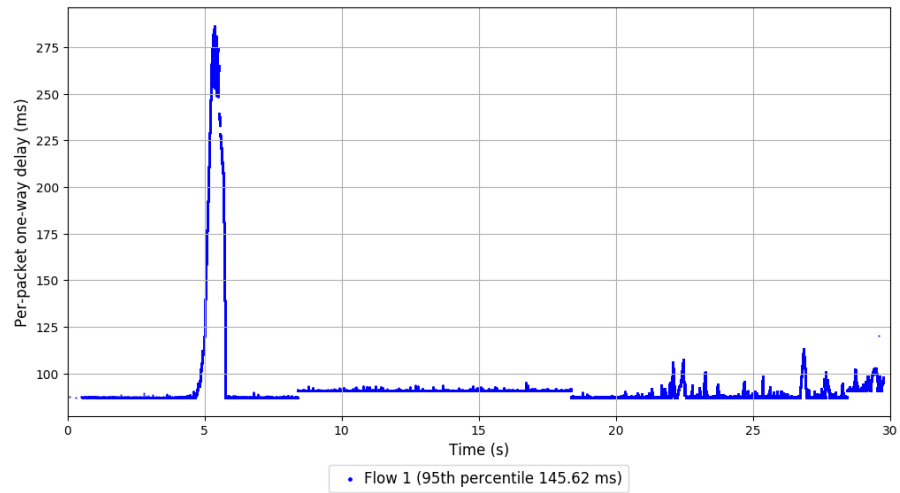
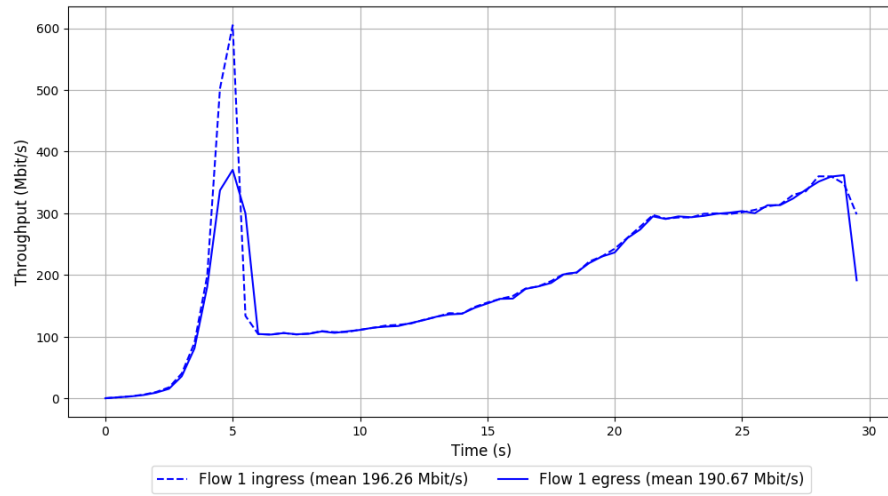
-- Flow 1:

Average throughput: 190.67 Mbit/s

95th percentile per-packet one-way delay: 145.621 ms

Loss rate: 3.50%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-02-27 08:00:57

End at: 2018-02-27 08:01:27

Below is generated by plot.py at 2018-02-27 12:58:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.17 Mbit/s

95th percentile per-packet one-way delay: 117.742 ms

Loss rate: 1.08%

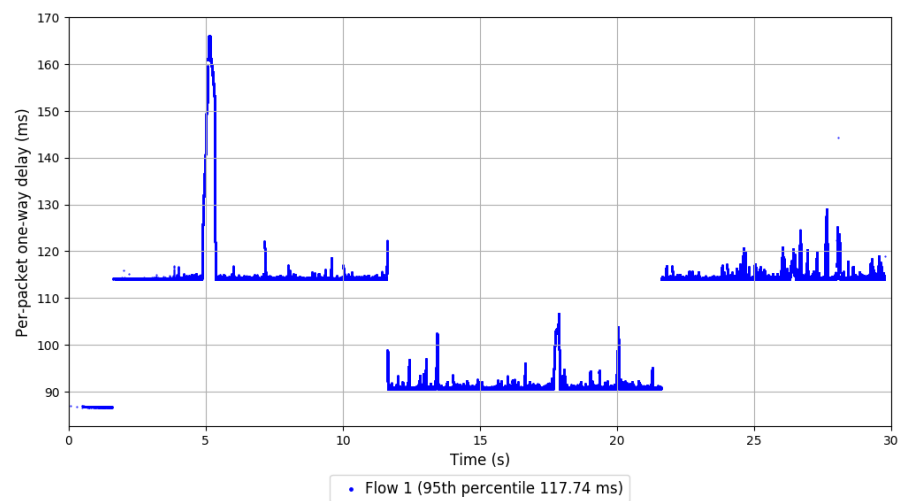
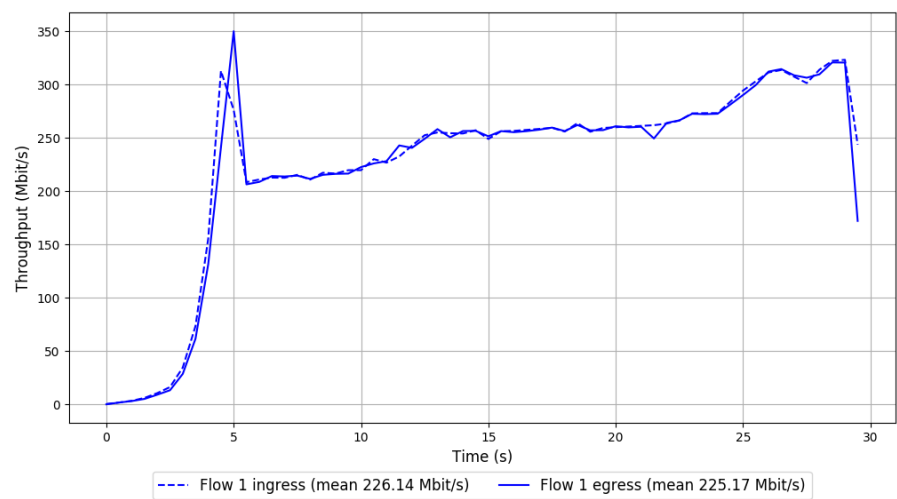
-- Flow 1:

Average throughput: 225.17 Mbit/s

95th percentile per-packet one-way delay: 117.742 ms

Loss rate: 1.08%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-02-27 08:16:03

End at: 2018-02-27 08:16:33

Below is generated by plot.py at 2018-02-27 12:58:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.07 Mbit/s

95th percentile per-packet one-way delay: 288.326 ms

Loss rate: 2.49%

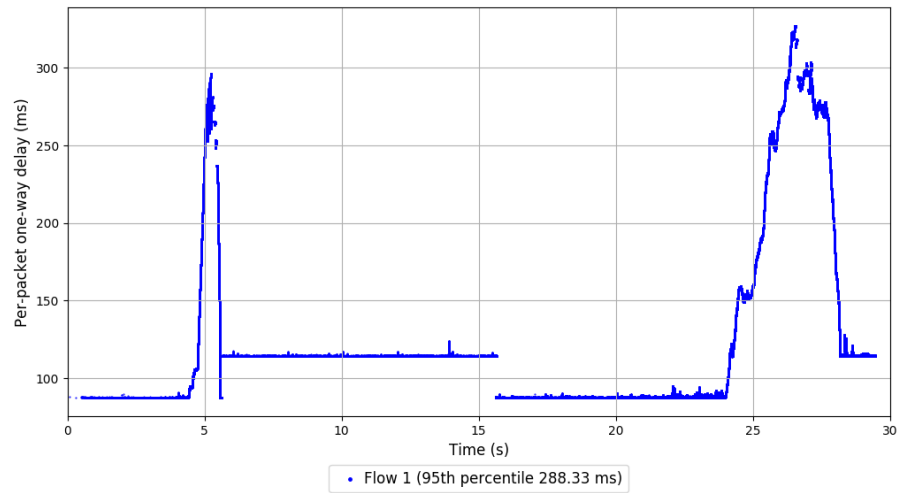
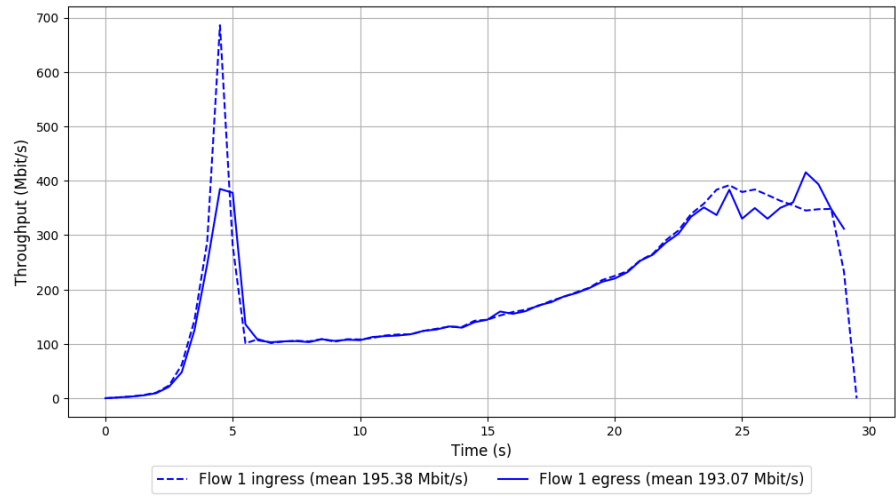
-- Flow 1:

Average throughput: 193.07 Mbit/s

95th percentile per-packet one-way delay: 288.326 ms

Loss rate: 2.49%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-02-27 08:31:22
End at: 2018-02-27 08:31:52

# Below is generated by plot.py at 2018-02-27 12:59:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.60 Mbit/s
95th percentile per-packet one-way delay: 128.891 ms
Loss rate: 3.61%
-- Flow 1:
Average throughput: 201.60 Mbit/s
95th percentile per-packet one-way delay: 128.891 ms
Loss rate: 3.61%
```

Run 10: Report of Vivace-LTE — Data Link

