

Pantheon Report

Generated at 2018-04-03 06:03:53 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

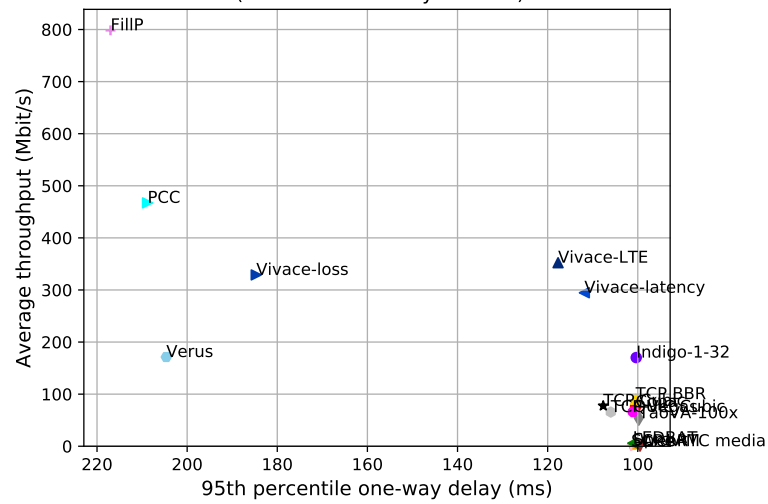
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

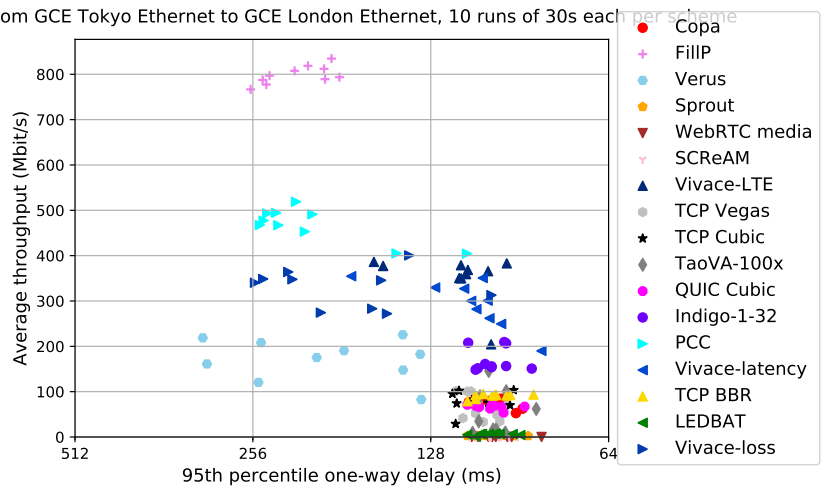
Git summary:

```
branch: master @ eb420b5be9bafccd22cf68b99ff5a2000462fc59
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
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 @ f1a14bffe749737437f61b1eaeab30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	90.43	100.48	0.79
TCP Cubic	10	77.62	107.67	0.89
LEDBAT	10	5.83	101.12	1.75
PCC	10	467.20	208.79	2.21
QUIC Cubic	9	65.97	101.04	0.95
SCReAM	10	0.21	101.47	0.71
WebRTC media	9	0.06	99.51	0.00
Sprout	10	2.50	101.00	0.68
TaoVA-100x	9	53.79	99.79	0.88
TCP Vegas	10	65.56	105.99	0.61
Verus	10	171.27	204.64	1.76
Copa	10	75.60	100.49	0.62
FillP	10	798.43	217.01	6.08
Indigo-1-32	10	170.21	100.35	0.77
Vivace-latency	10	294.61	111.86	0.92
Vivace-loss	10	328.89	184.67	1.83
Vivace-LTE	10	352.34	117.69	0.95

Run 1: Statistics of TCP BBR

Start at: 2018-04-02 23:49:47

End at: 2018-04-02 23:50:17

Below is generated by plot.py at 2018-04-03 04:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 99.723 ms

Loss rate: 0.81%

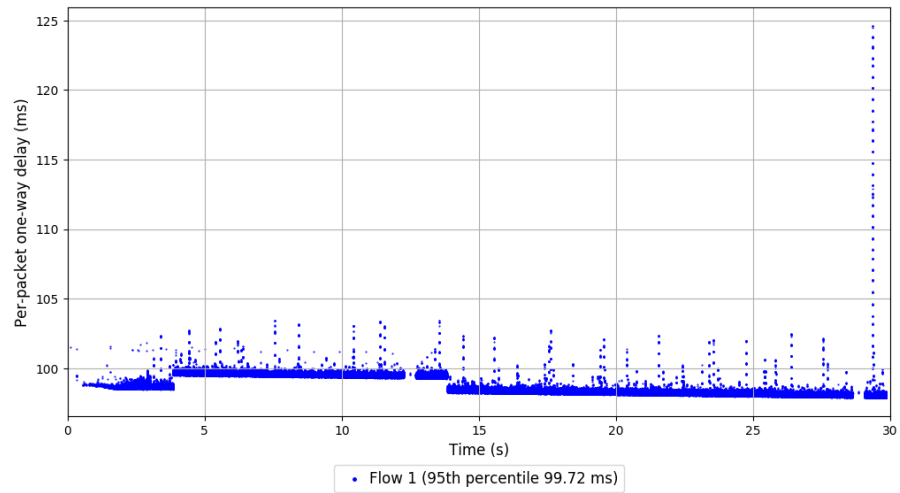
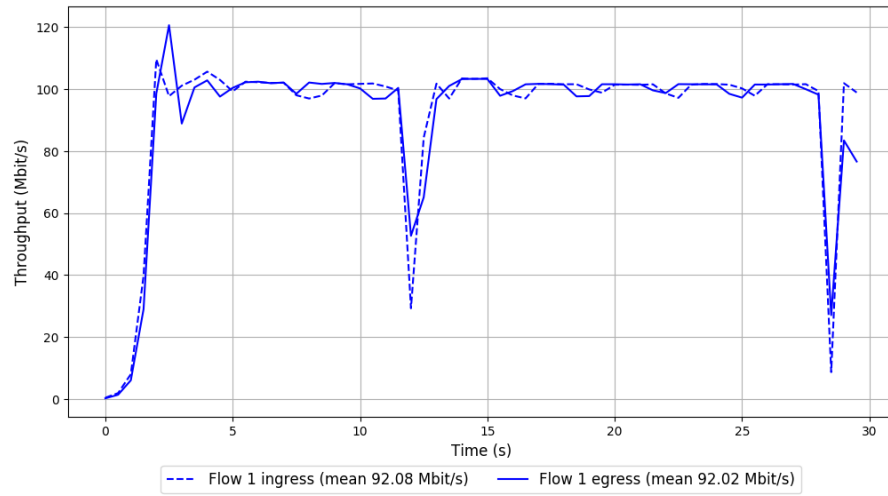
-- Flow 1:

Average throughput: 92.02 Mbit/s

95th percentile per-packet one-way delay: 99.723 ms

Loss rate: 0.81%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-03 00:05:28

End at: 2018-04-03 00:05:58

Below is generated by plot.py at 2018-04-03 04:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 93.893 ms

Loss rate: 0.50%

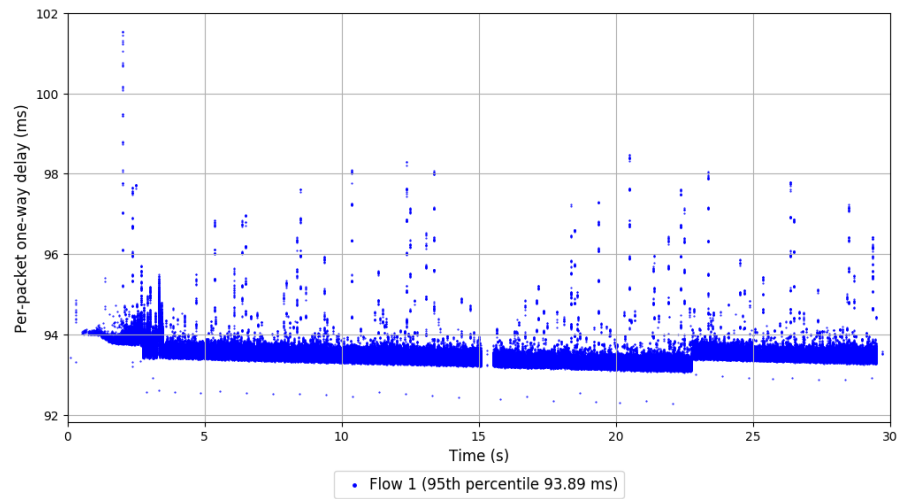
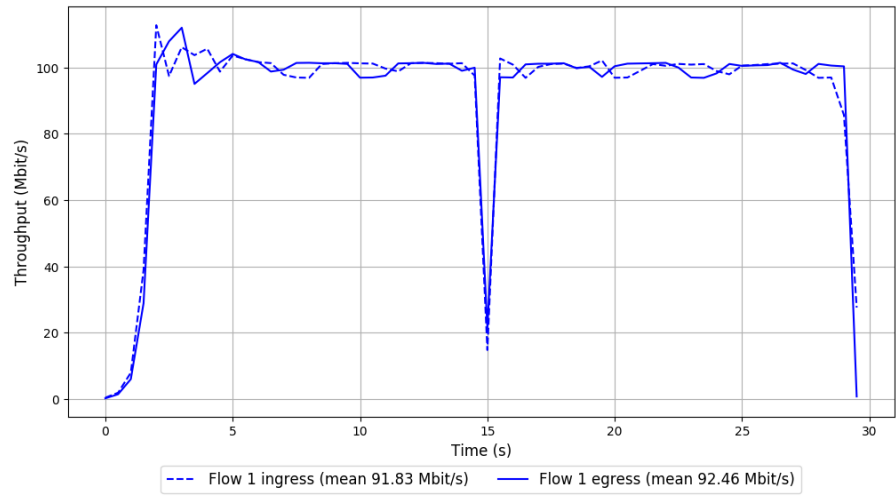
-- Flow 1:

Average throughput: 92.46 Mbit/s

95th percentile per-packet one-way delay: 93.893 ms

Loss rate: 0.50%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-03 00:20:47

End at: 2018-04-03 00:21:17

Below is generated by plot.py at 2018-04-03 04:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 95.265 ms

Loss rate: 0.78%

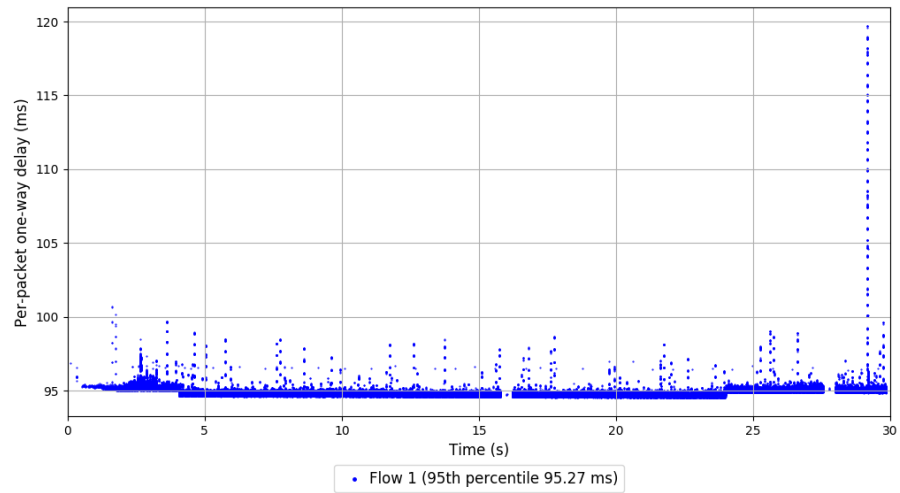
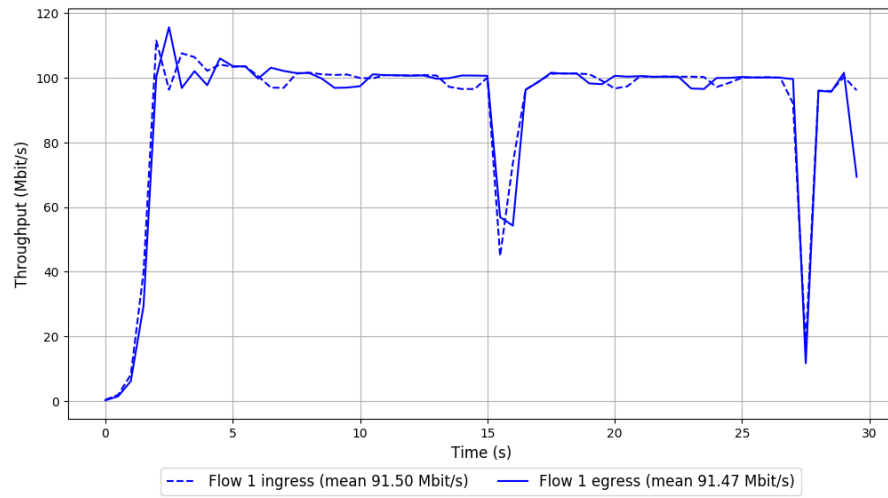
-- Flow 1:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 95.265 ms

Loss rate: 0.78%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-03 00:36:14

End at: 2018-04-03 00:36:44

Below is generated by plot.py at 2018-04-03 04:56:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 85.771 ms

Loss rate: 0.78%

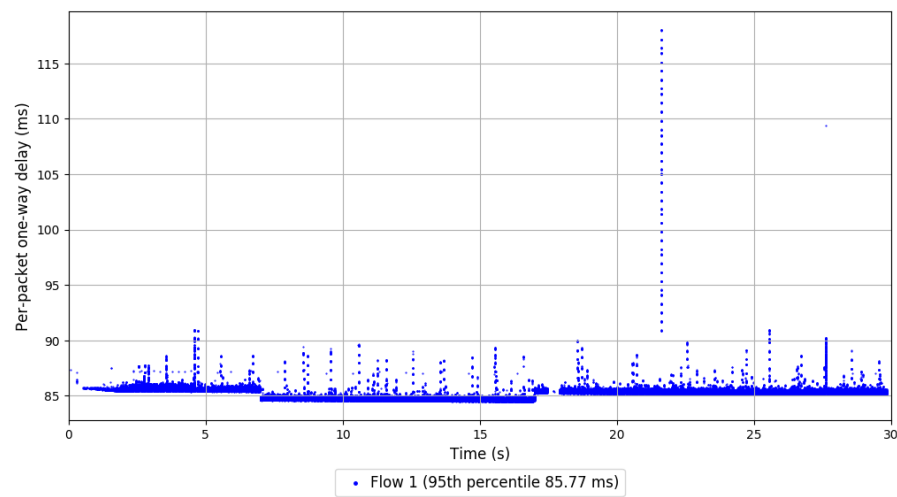
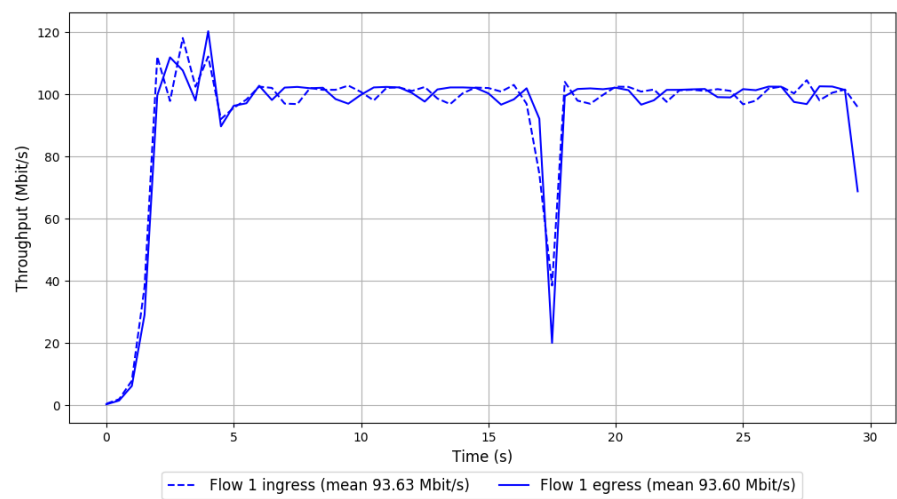
-- Flow 1:

Average throughput: 93.60 Mbit/s

95th percentile per-packet one-way delay: 85.771 ms

Loss rate: 0.78%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-03 00:51:39

End at: 2018-04-03 00:52:09

Below is generated by plot.py at 2018-04-03 04:56:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 99.221 ms

Loss rate: 0.87%

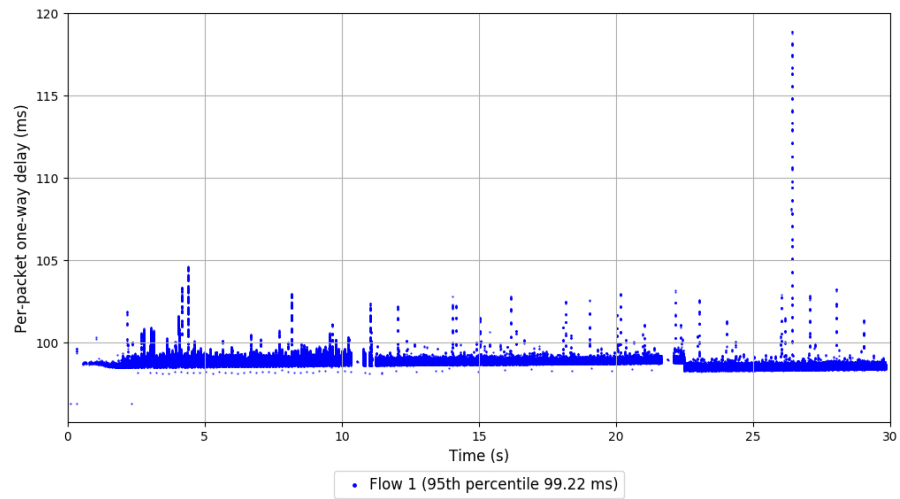
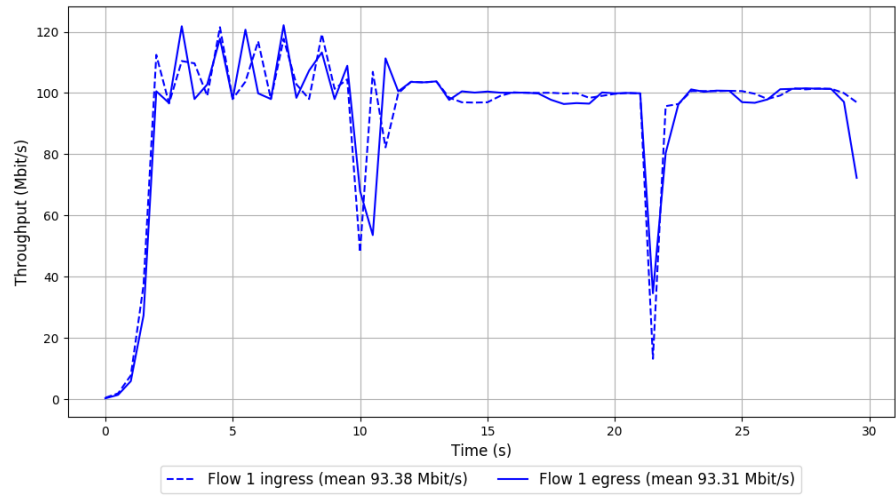
-- Flow 1:

Average throughput: 93.31 Mbit/s

95th percentile per-packet one-way delay: 99.221 ms

Loss rate: 0.87%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-03 01:07:01

End at: 2018-04-03 01:07:31

Below is generated by plot.py at 2018-04-03 04:56:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 100.743 ms

Loss rate: 0.83%

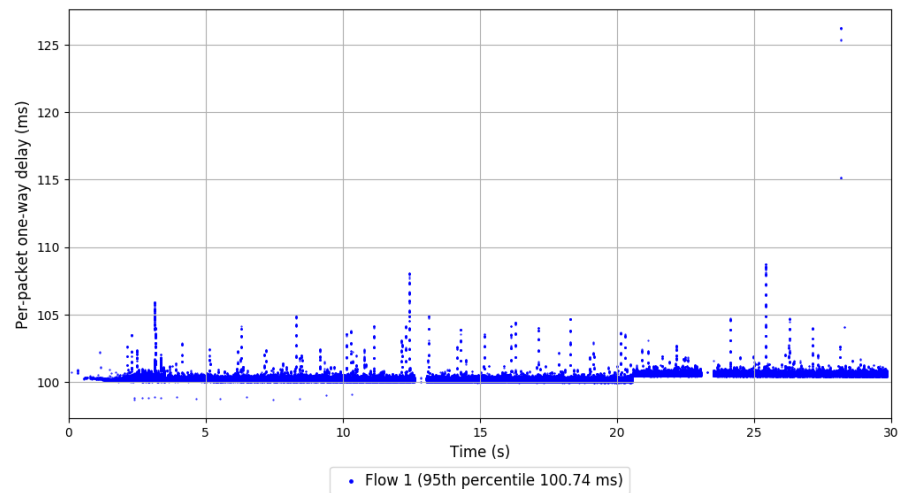
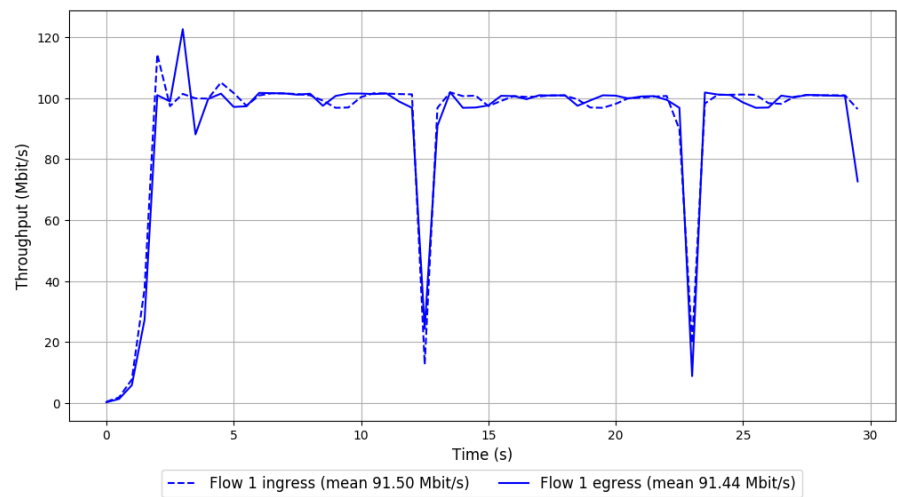
-- Flow 1:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 100.743 ms

Loss rate: 0.83%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-03 01:22:08

End at: 2018-04-03 01:22:38

Below is generated by plot.py at 2018-04-03 04:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 104.308 ms

Loss rate: 0.77%

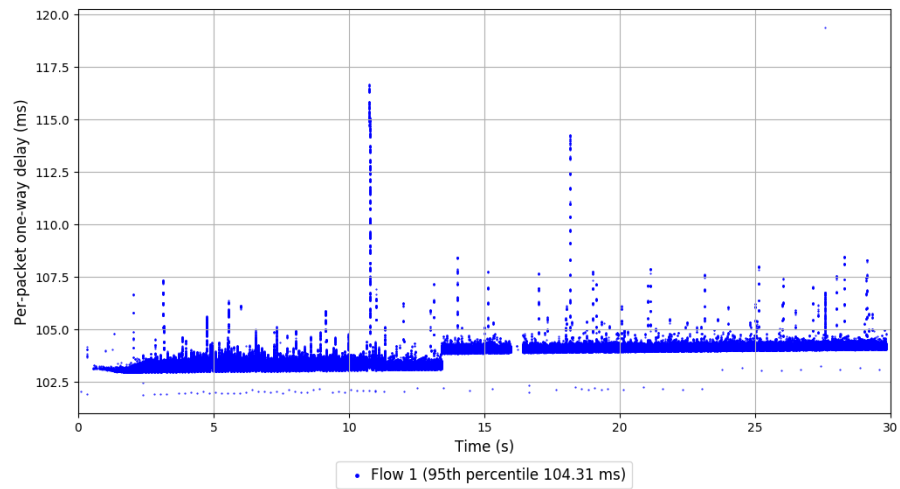
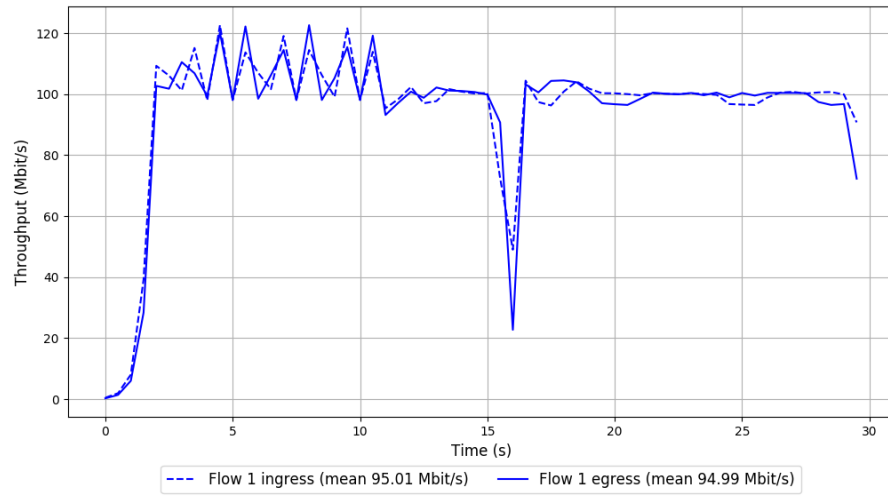
-- Flow 1:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 104.308 ms

Loss rate: 0.77%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-03 01:37:41

End at: 2018-04-03 01:38:11

Below is generated by plot.py at 2018-04-03 04:56:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 107.519 ms

Loss rate: 0.78%

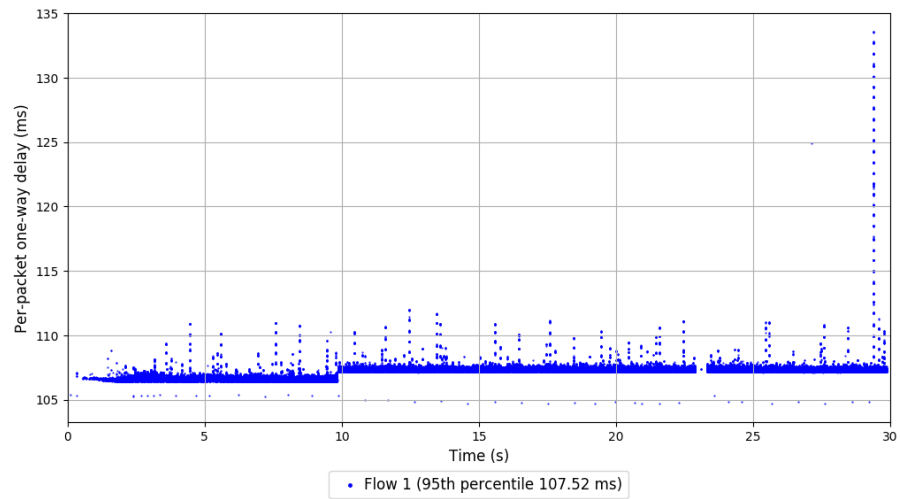
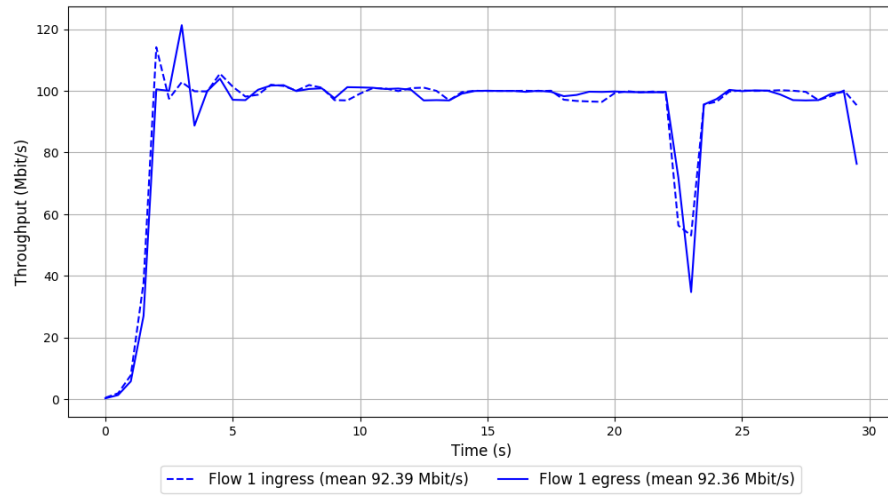
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 107.519 ms

Loss rate: 0.78%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-03 01:52:58

End at: 2018-04-03 01:53:28

Below is generated by plot.py at 2018-04-03 04:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 107.378 ms

Loss rate: 0.86%

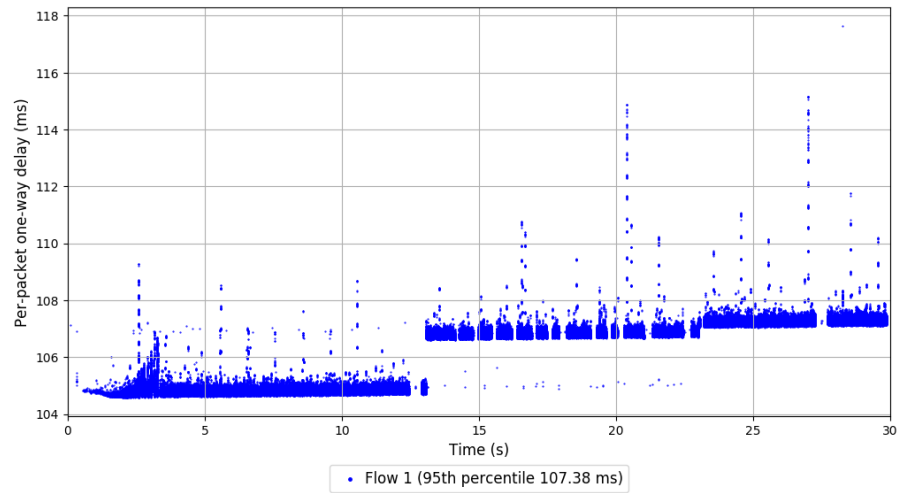
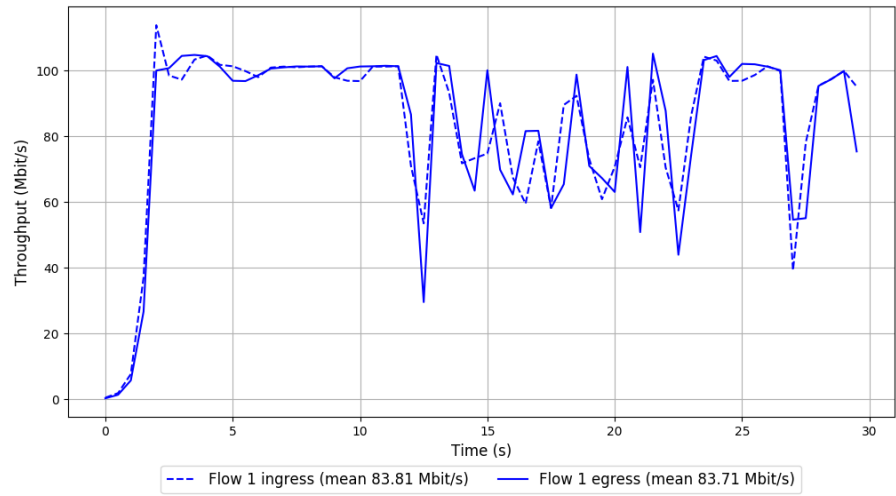
-- Flow 1:

Average throughput: 83.71 Mbit/s

95th percentile per-packet one-way delay: 107.378 ms

Loss rate: 0.86%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-03 02:08:19

End at: 2018-04-03 02:08:49

Below is generated by plot.py at 2018-04-03 04:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.91 Mbit/s

95th percentile per-packet one-way delay: 110.936 ms

Loss rate: 0.94%

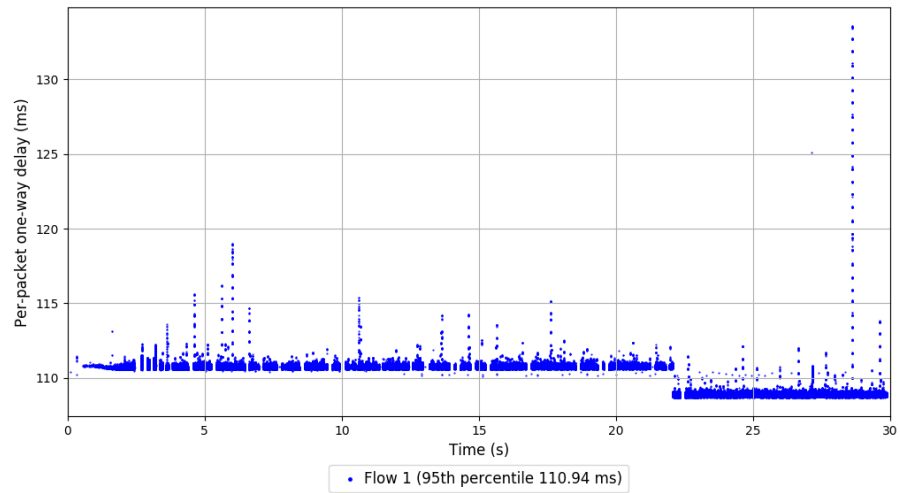
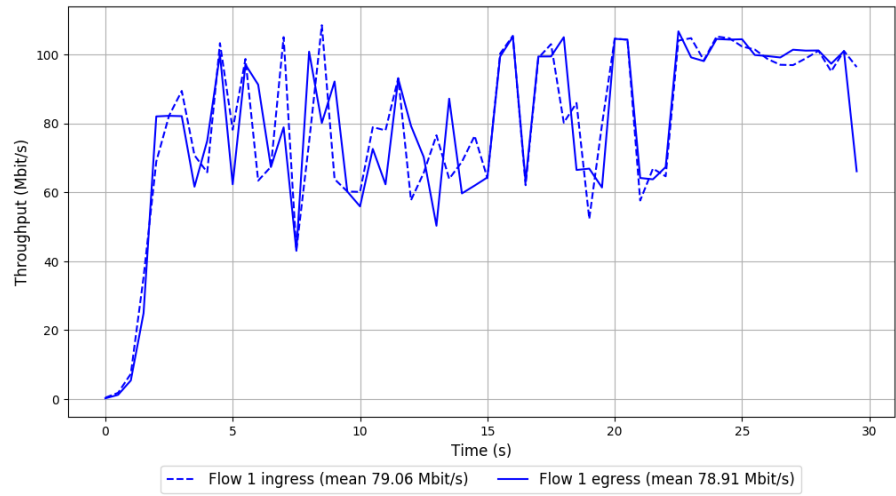
-- Flow 1:

Average throughput: 78.91 Mbit/s

95th percentile per-packet one-way delay: 110.936 ms

Loss rate: 0.94%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-02 23:52:36

End at: 2018-04-02 23:53:06

Below is generated by plot.py at 2018-04-03 04:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 107.123 ms

Loss rate: 0.70%

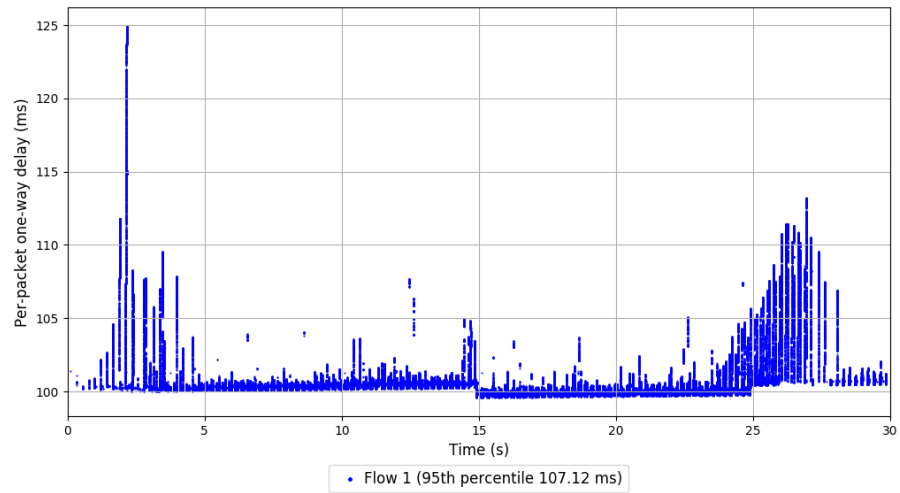
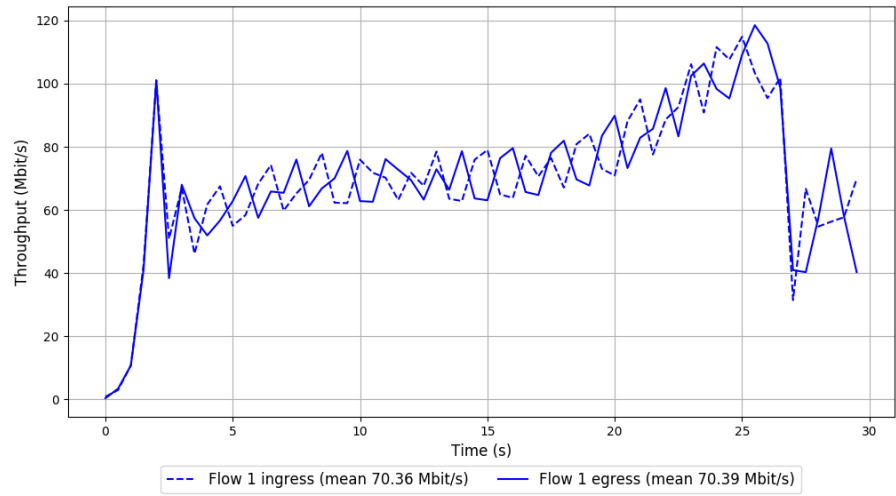
-- Flow 1:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 107.123 ms

Loss rate: 0.70%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-03 00:08:14

End at: 2018-04-03 00:08:44

Below is generated by plot.py at 2018-04-03 04:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.23 Mbit/s

95th percentile per-packet one-way delay: 93.992 ms

Loss rate: 1.09%

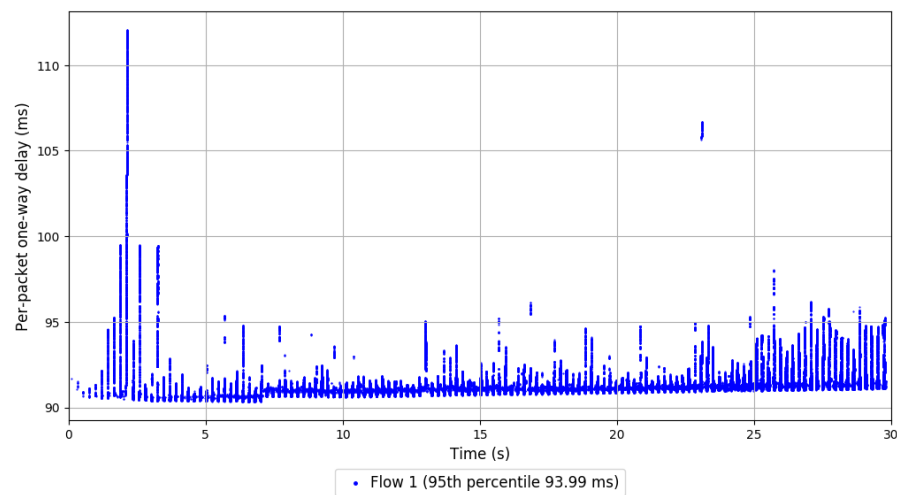
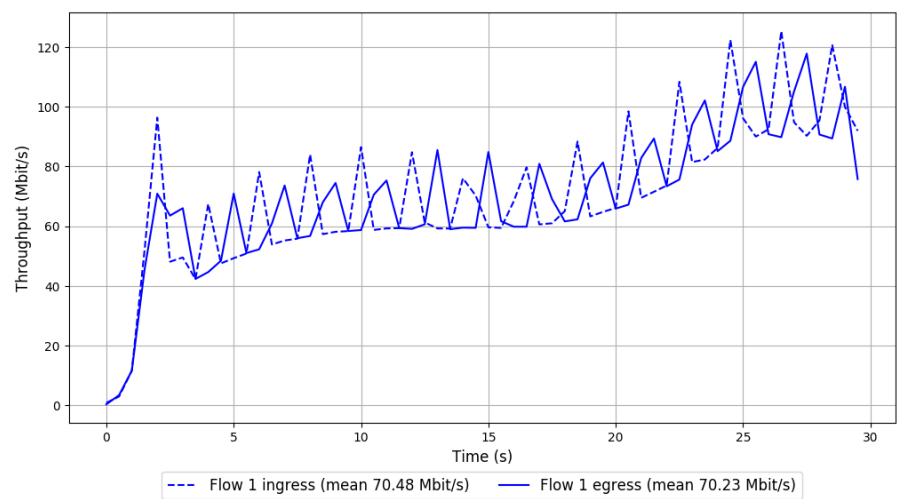
-- Flow 1:

Average throughput: 70.23 Mbit/s

95th percentile per-packet one-way delay: 93.992 ms

Loss rate: 1.09%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-03 00:23:40

End at: 2018-04-03 00:24:10

Below is generated by plot.py at 2018-04-03 04:58:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 102.339 ms

Loss rate: 1.05%

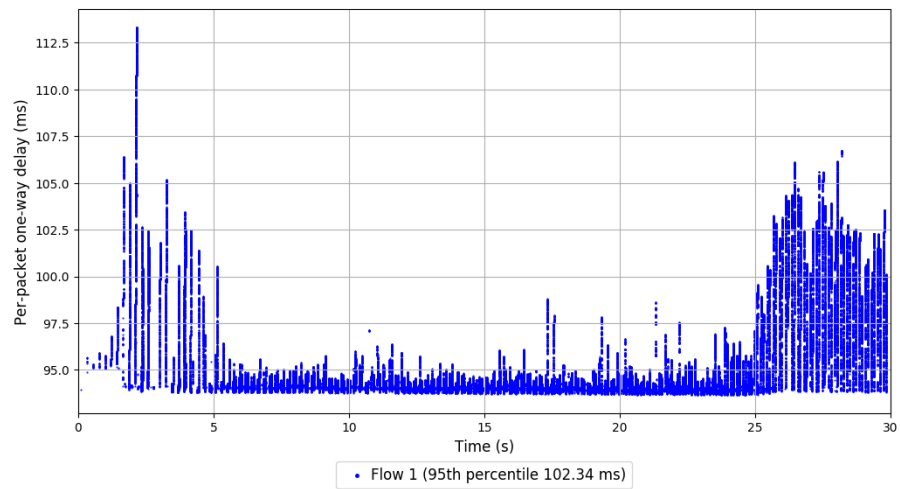
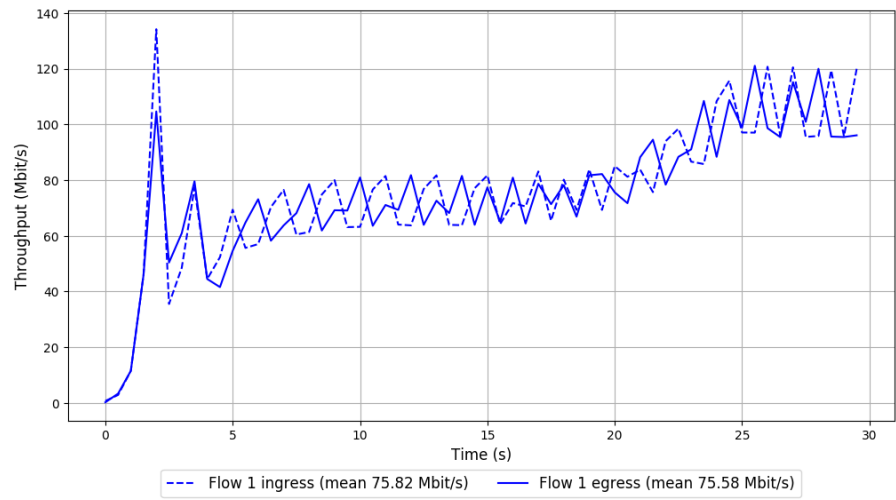
-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 102.339 ms

Loss rate: 1.05%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-03 00:39:08

End at: 2018-04-03 00:39:38

Below is generated by plot.py at 2018-04-03 04:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 103.52 Mbit/s

95th percentile per-packet one-way delay: 92.656 ms

Loss rate: 0.81%

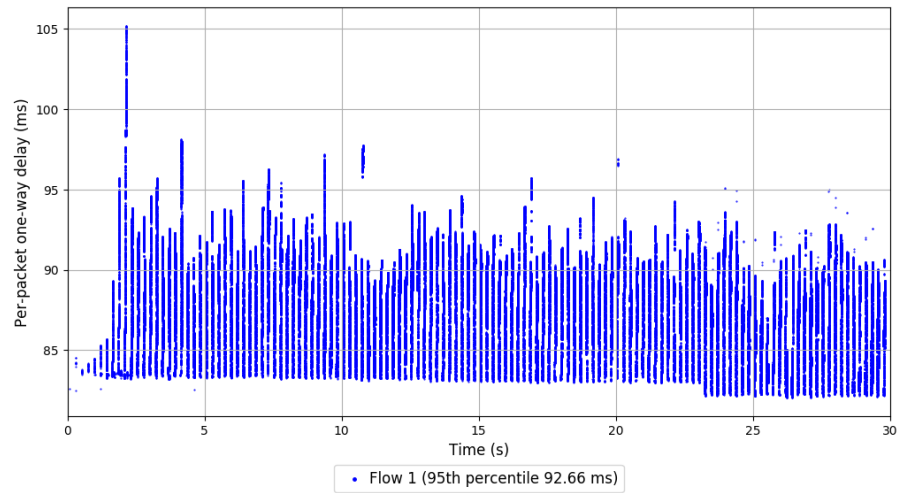
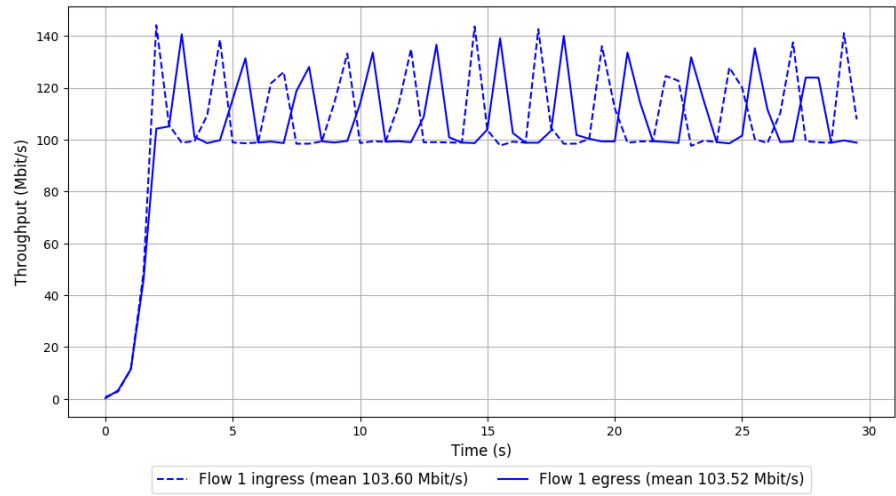
-- Flow 1:

Average throughput: 103.52 Mbit/s

95th percentile per-packet one-way delay: 92.656 ms

Loss rate: 0.81%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-03 00:54:27

End at: 2018-04-03 00:54:57

Below is generated by plot.py at 2018-04-03 04:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 108.998 ms

Loss rate: 1.02%

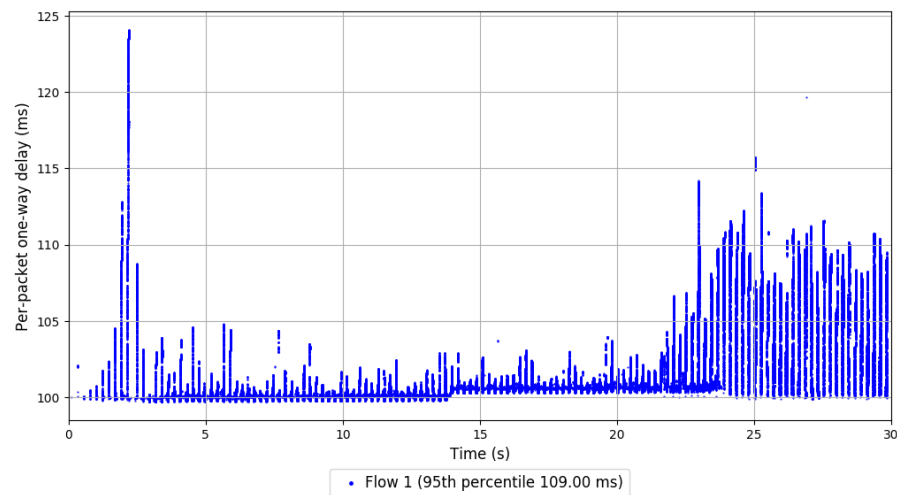
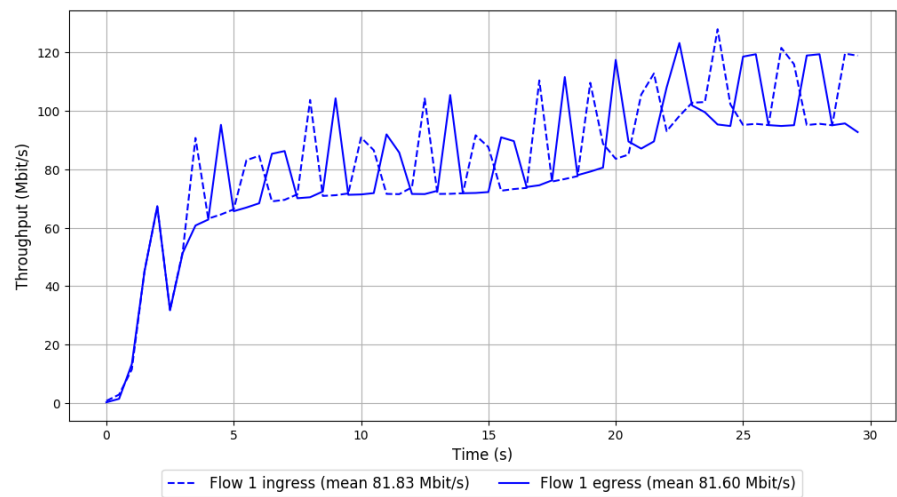
-- Flow 1:

Average throughput: 81.60 Mbit/s

95th percentile per-packet one-way delay: 108.998 ms

Loss rate: 1.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-03 01:09:48

End at: 2018-04-03 01:10:18

Below is generated by plot.py at 2018-04-03 04:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 107.423 ms

Loss rate: 1.07%

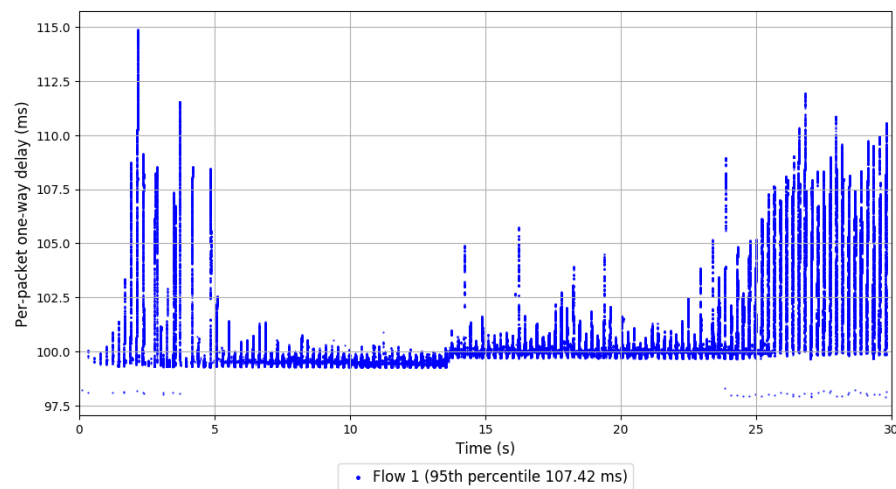
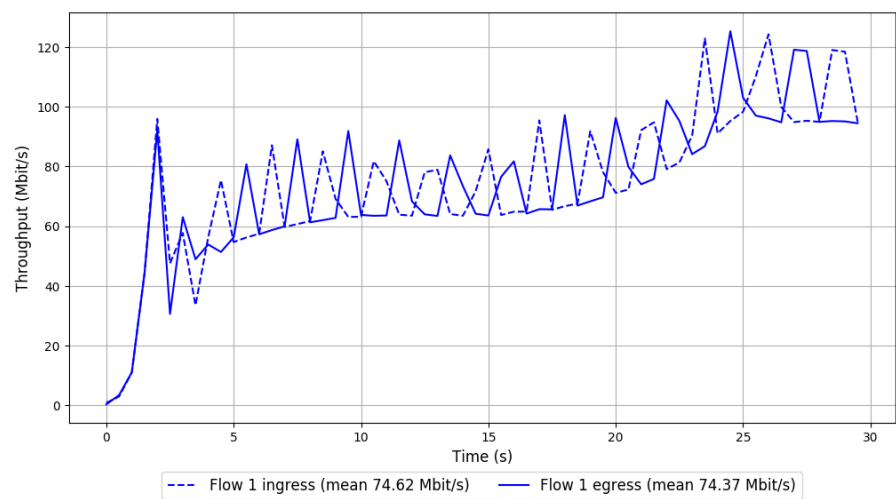
-- Flow 1:

Average throughput: 74.37 Mbit/s

95th percentile per-packet one-way delay: 107.423 ms

Loss rate: 1.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-03 01:25:00

End at: 2018-04-03 01:25:30

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.00 Mbit/s

95th percentile per-packet one-way delay: 114.639 ms

Loss rate: 0.80%

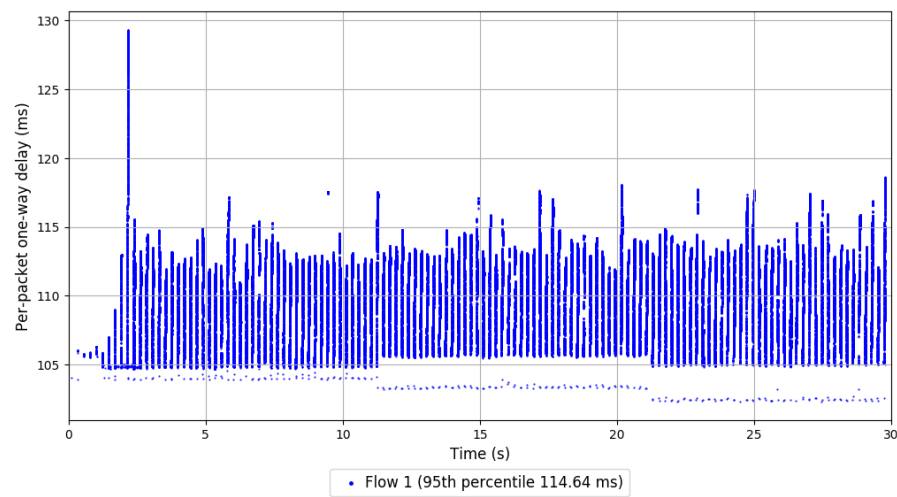
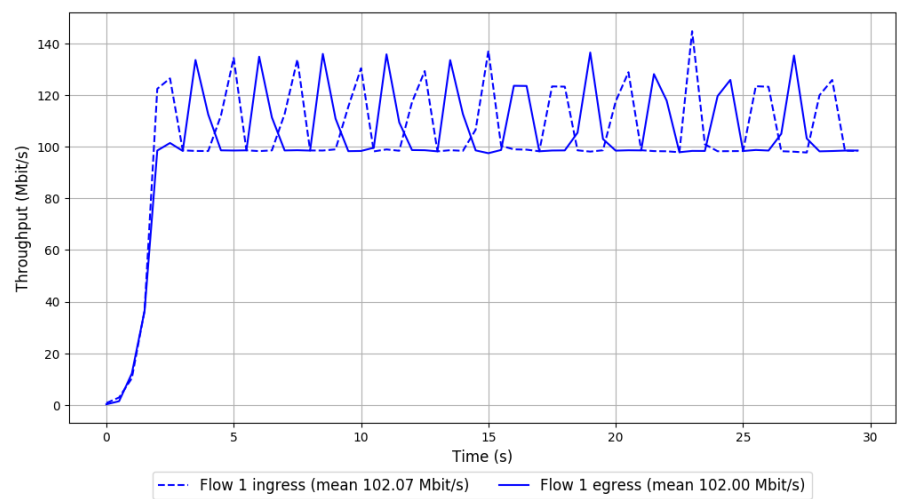
-- Flow 1:

Average throughput: 102.00 Mbit/s

95th percentile per-packet one-way delay: 114.639 ms

Loss rate: 0.80%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-03 01:40:37

End at: 2018-04-03 01:41:07

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 115.697 ms

Loss rate: 1.00%

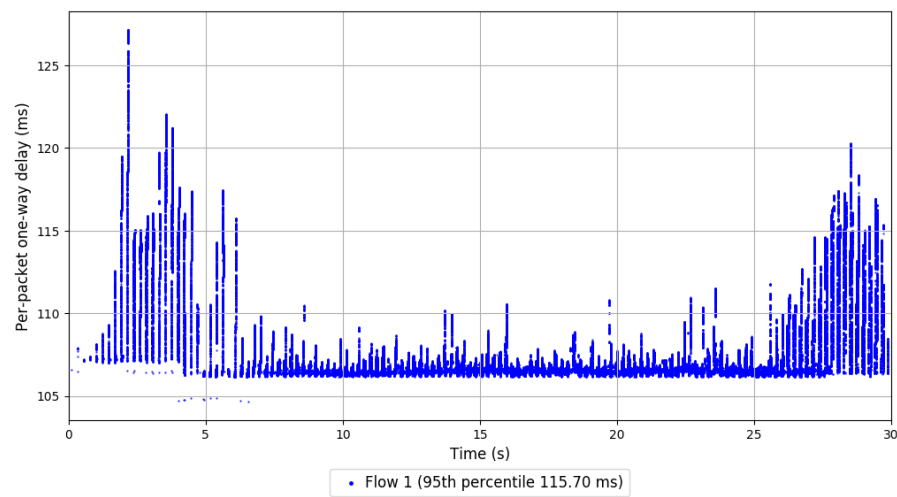
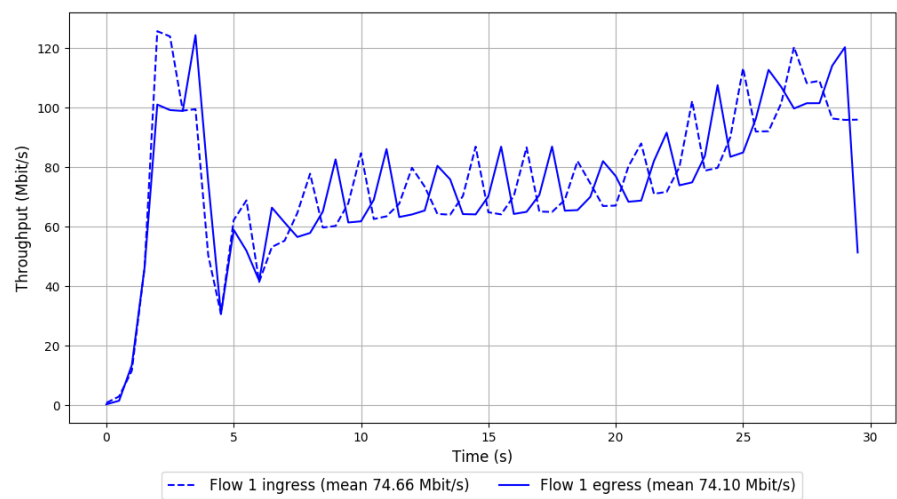
-- Flow 1:

Average throughput: 74.10 Mbit/s

95th percentile per-packet one-way delay: 115.697 ms

Loss rate: 1.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-03 01:55:46

End at: 2018-04-03 01:56:16

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 117.639 ms

Loss rate: 0.24%

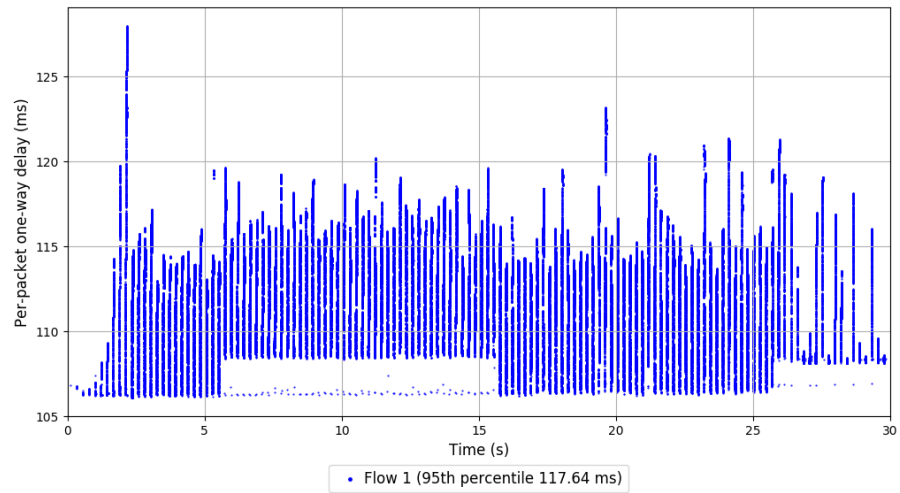
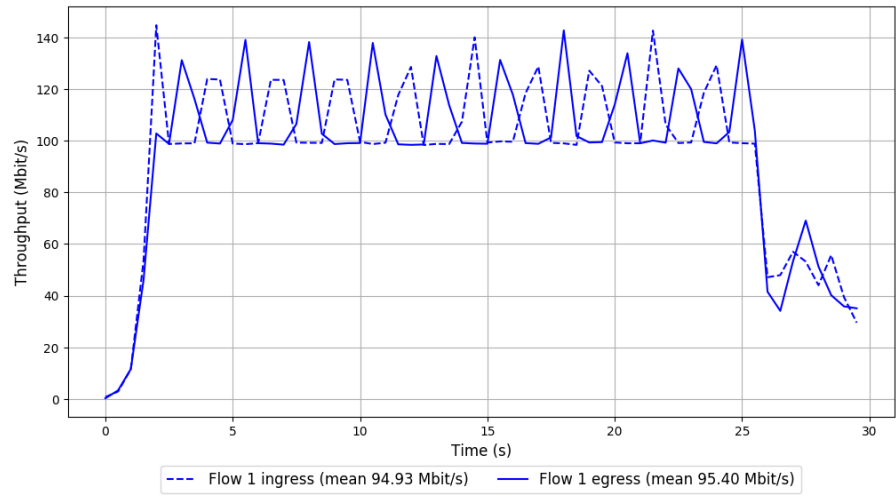
-- Flow 1:

Average throughput: 95.40 Mbit/s

95th percentile per-packet one-way delay: 117.639 ms

Loss rate: 0.24%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-03 02:11:05

End at: 2018-04-03 02:11:35

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 116.167 ms

Loss rate: 1.09%

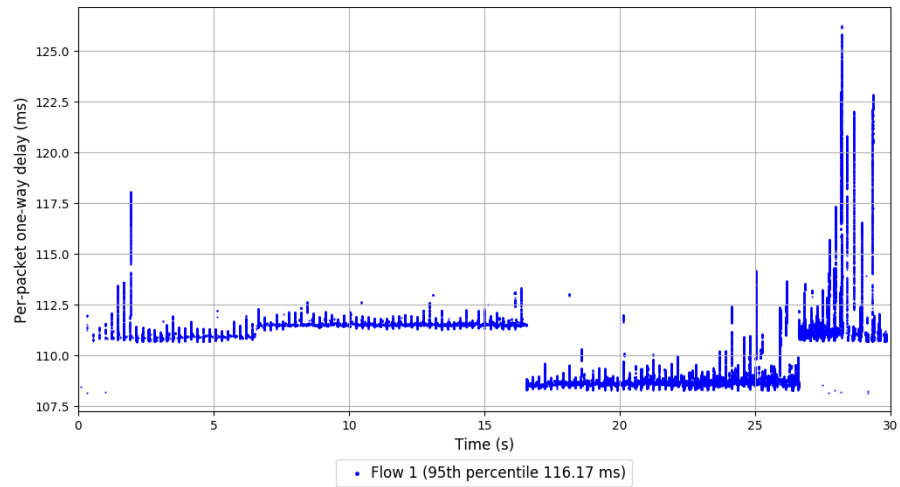
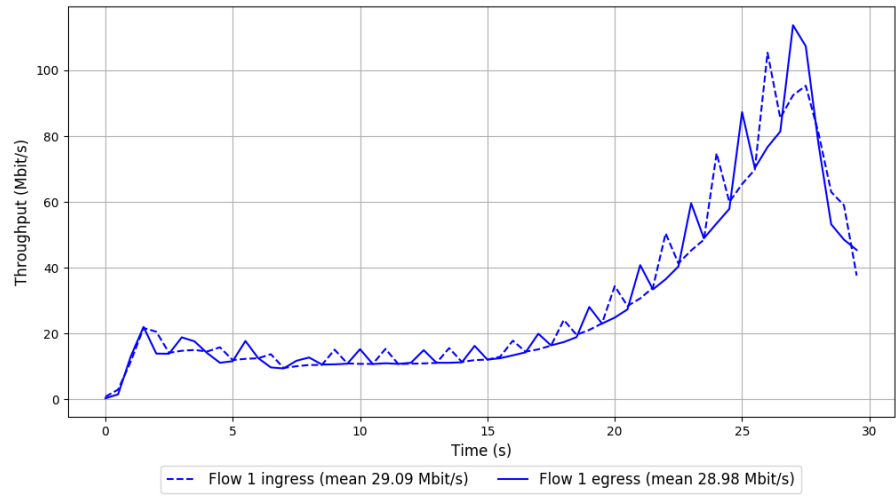
-- Flow 1:

Average throughput: 28.98 Mbit/s

95th percentile per-packet one-way delay: 116.167 ms

Loss rate: 1.09%

Run 10: Report of TCP Cubic — Data Link

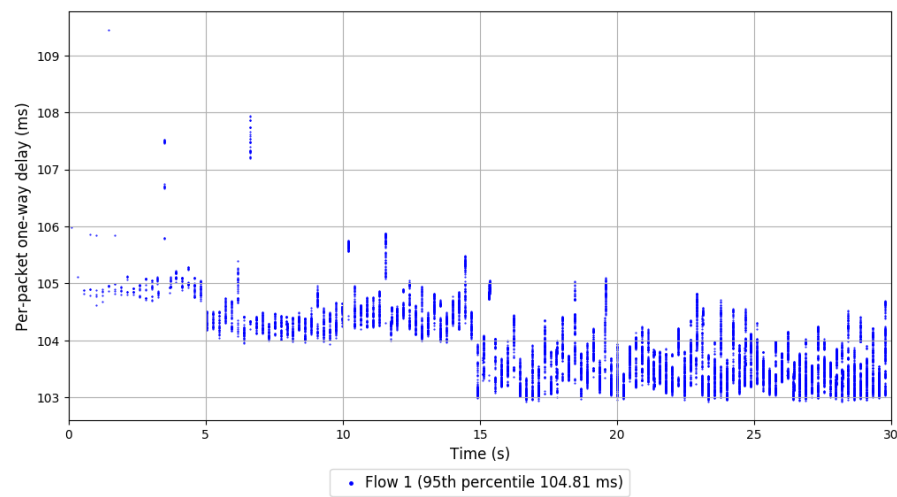
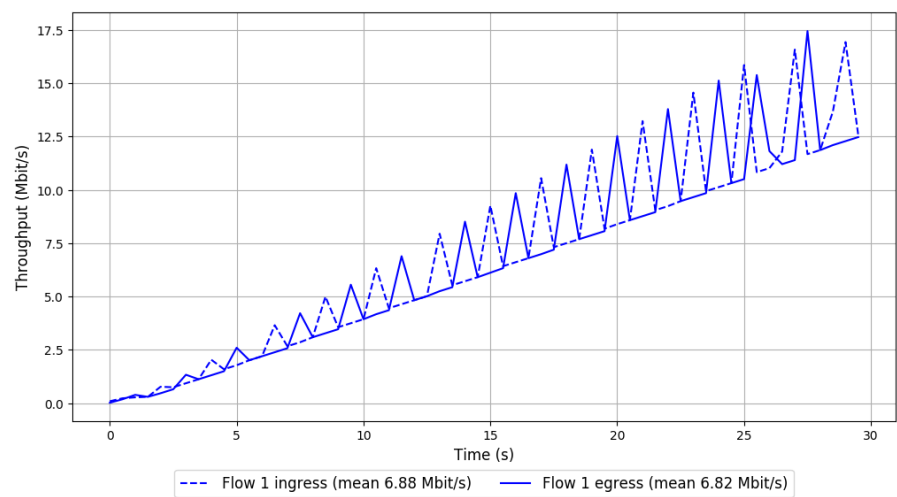


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-02 23:44:46
End at: 2018-04-02 23:45:16

# Below is generated by plot.py at 2018-04-03 04:59:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 104.811 ms
Loss rate: 1.53%
-- Flow 1:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 104.811 ms
Loss rate: 1.53%
```

Run 1: Report of LEDBAT — Data Link

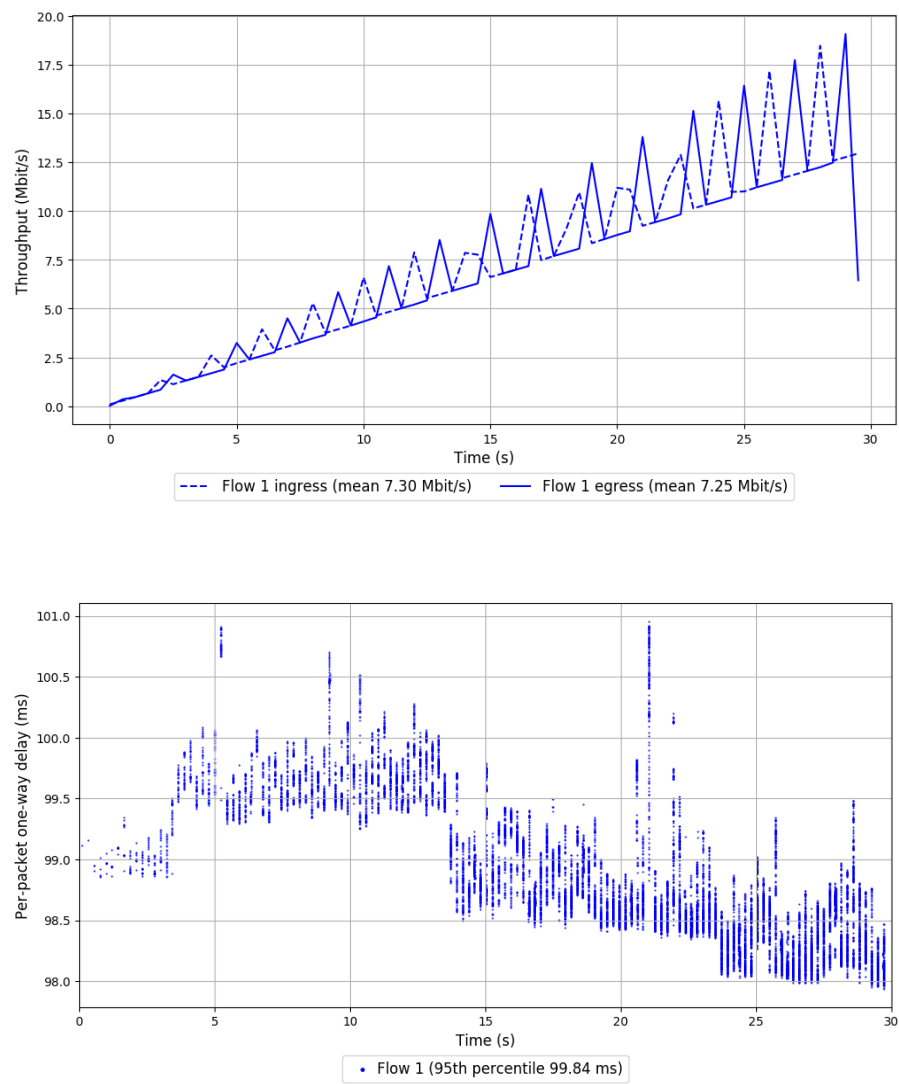


```
Run 2: Statistics of LEDBAT

Start at: 2018-04-03 00:00:18
End at: 2018-04-03 00:00:48

# Below is generated by plot.py at 2018-04-03 04:59:44
# Datalink statistics
-- Total of 1 flow:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 99.844 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 7.25 Mbit/s
95th percentile per-packet one-way delay: 99.844 ms
Loss rate: 1.49%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-03 00:15:38

End at: 2018-04-03 00:16:08

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 97.867 ms

Loss rate: 1.52%

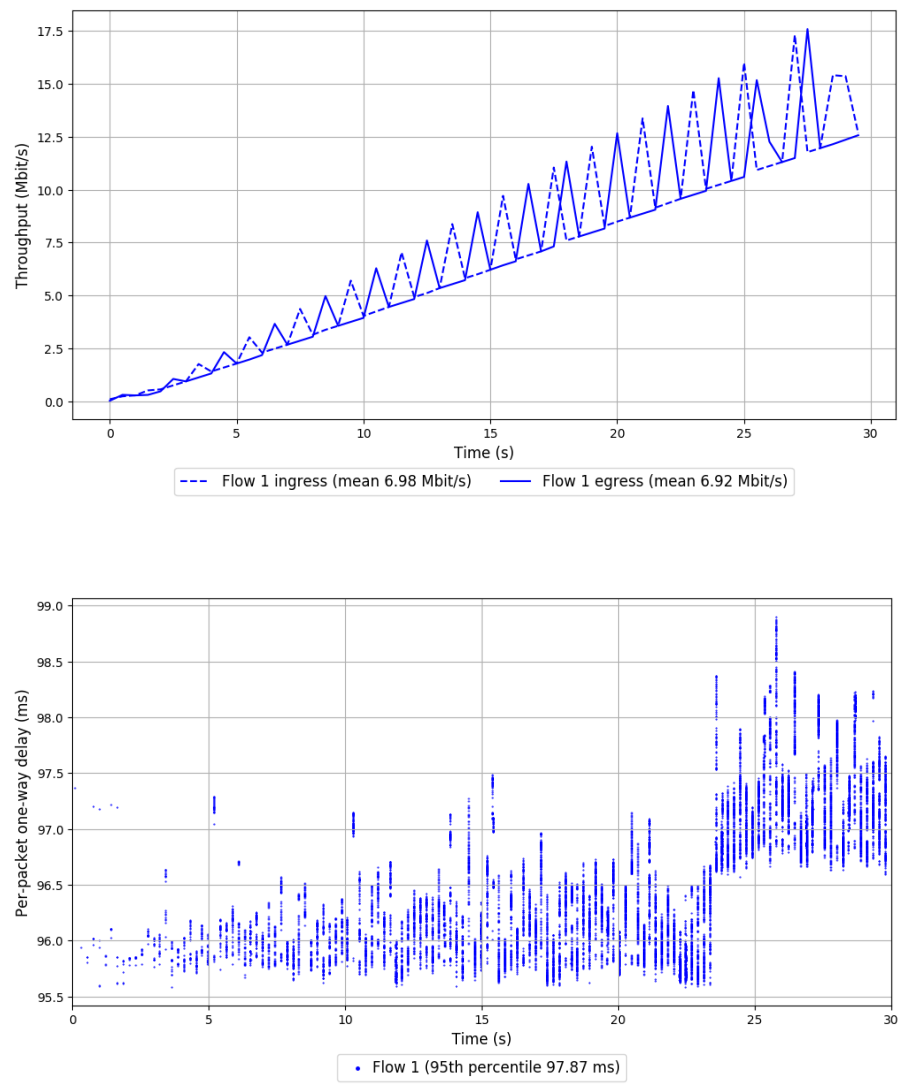
-- Flow 1:

Average throughput: 6.92 Mbit/s

95th percentile per-packet one-way delay: 97.867 ms

Loss rate: 1.52%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-03 00:31:06

End at: 2018-04-03 00:31:36

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 90.269 ms

Loss rate: 1.91%

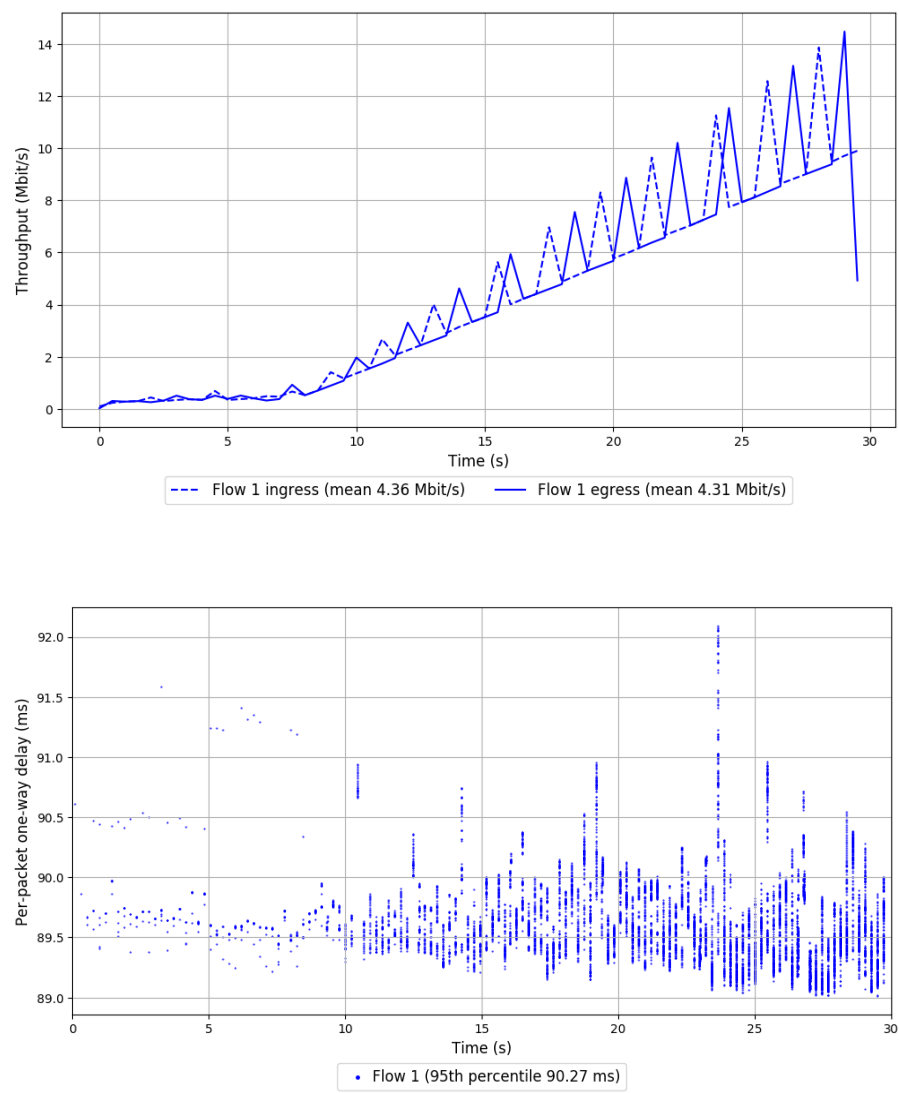
-- Flow 1:

Average throughput: 4.31 Mbit/s

95th percentile per-packet one-way delay: 90.269 ms

Loss rate: 1.91%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-03 00:46:29

End at: 2018-04-03 00:46:59

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 93.017 ms

Loss rate: 1.57%

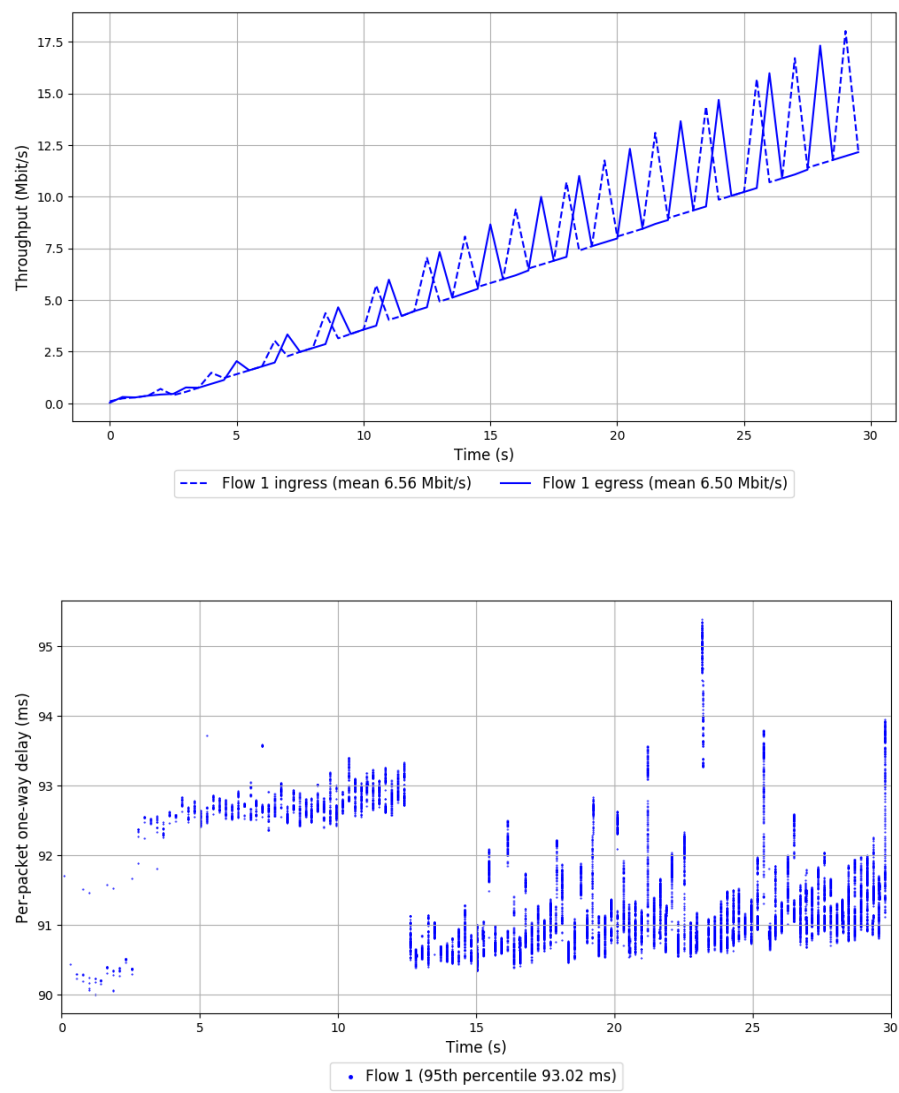
-- Flow 1:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 93.017 ms

Loss rate: 1.57%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-03 01:01:50

End at: 2018-04-03 01:02:20

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 102.123 ms

Loss rate: 1.49%

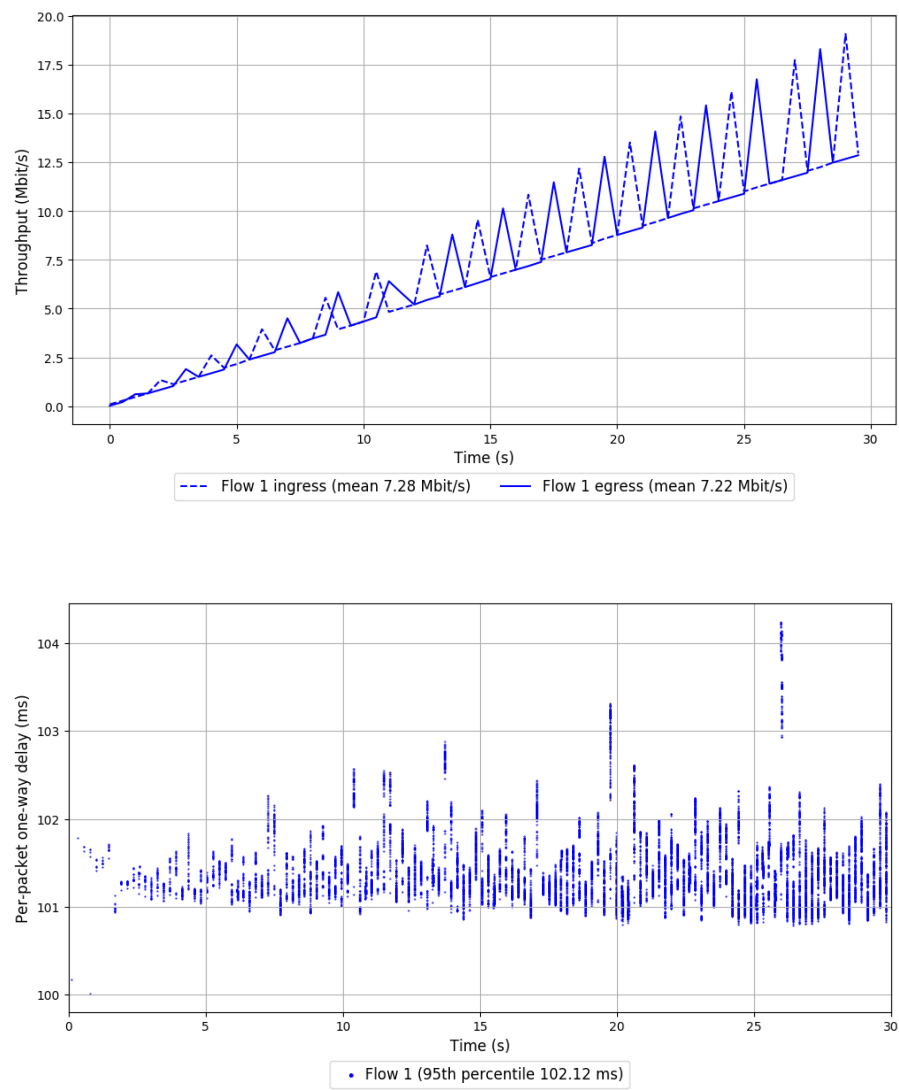
-- Flow 1:

Average throughput: 7.22 Mbit/s

95th percentile per-packet one-way delay: 102.123 ms

Loss rate: 1.49%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-03 01:16:57

End at: 2018-04-03 01:17:27

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 99.288 ms

Loss rate: 1.48%

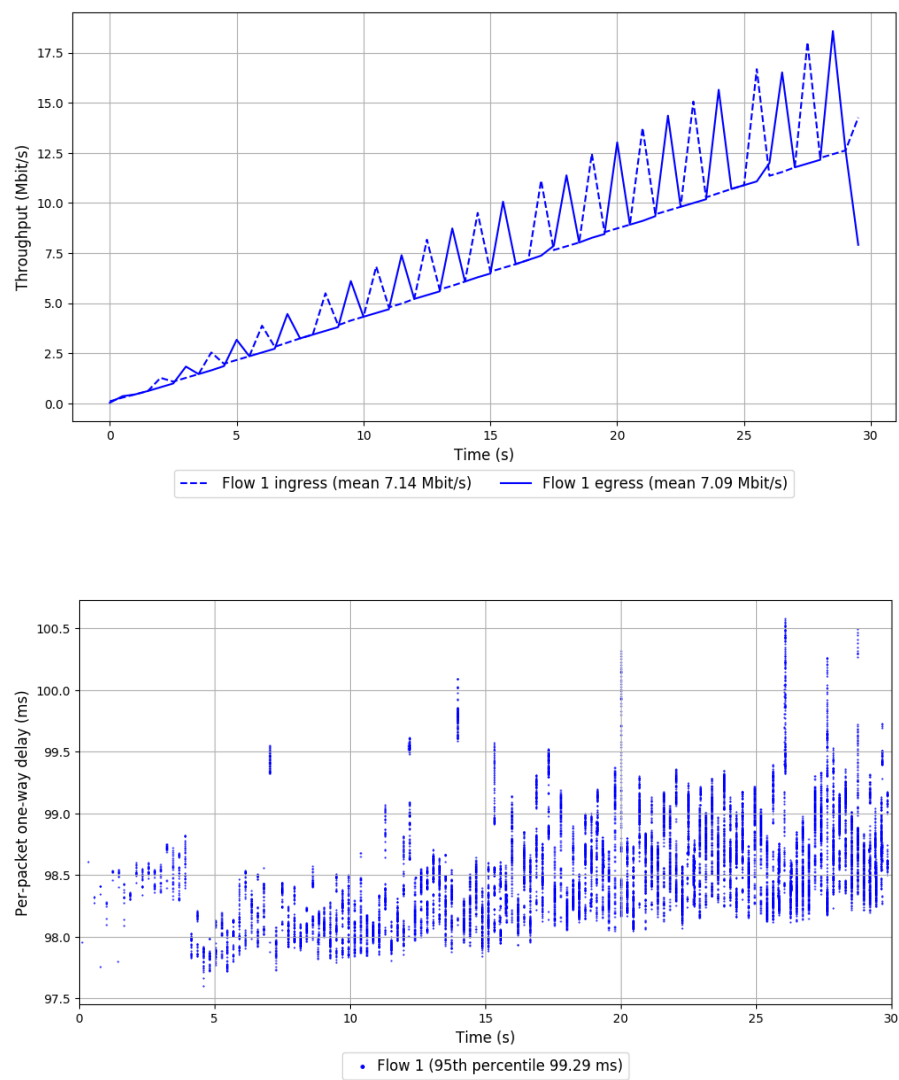
-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 99.288 ms

Loss rate: 1.48%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-03 01:32:32

End at: 2018-04-03 01:33:02

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 107.352 ms

Loss rate: 3.87%

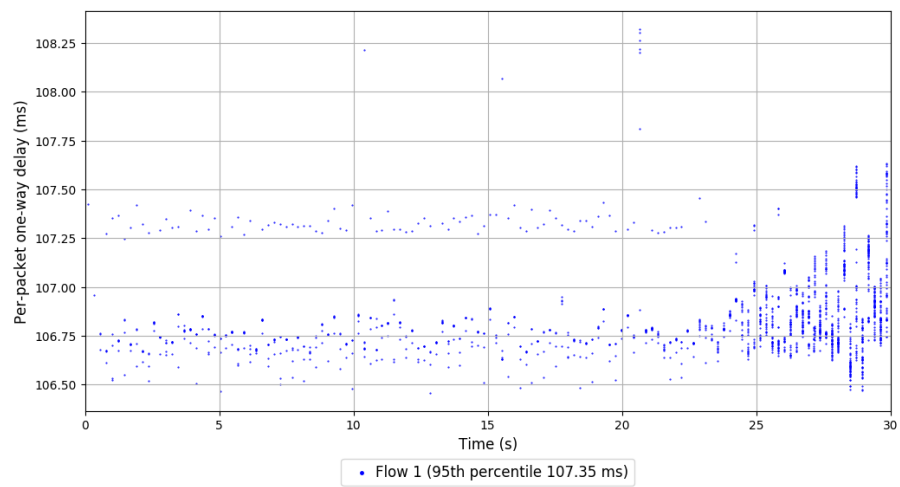
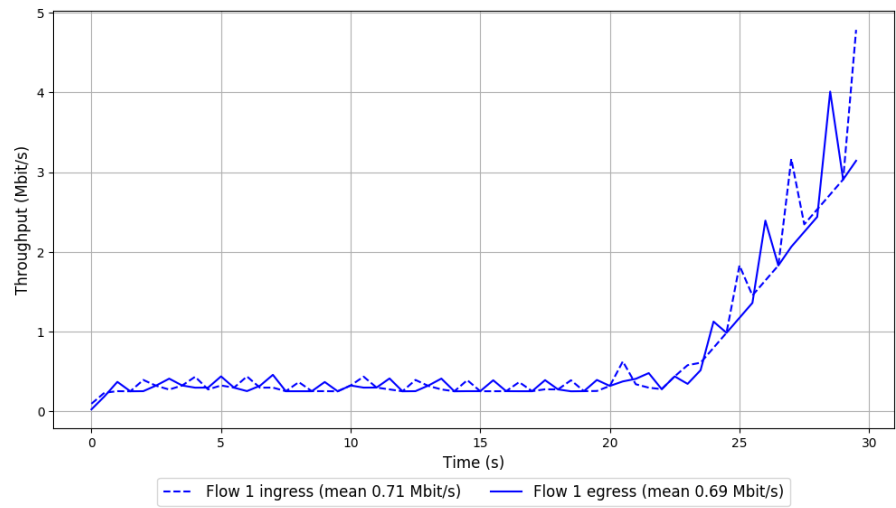
-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 107.352 ms

Loss rate: 3.87%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-03 01:47:51

End at: 2018-04-03 01:48:21

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 105.586 ms

Loss rate: 1.56%

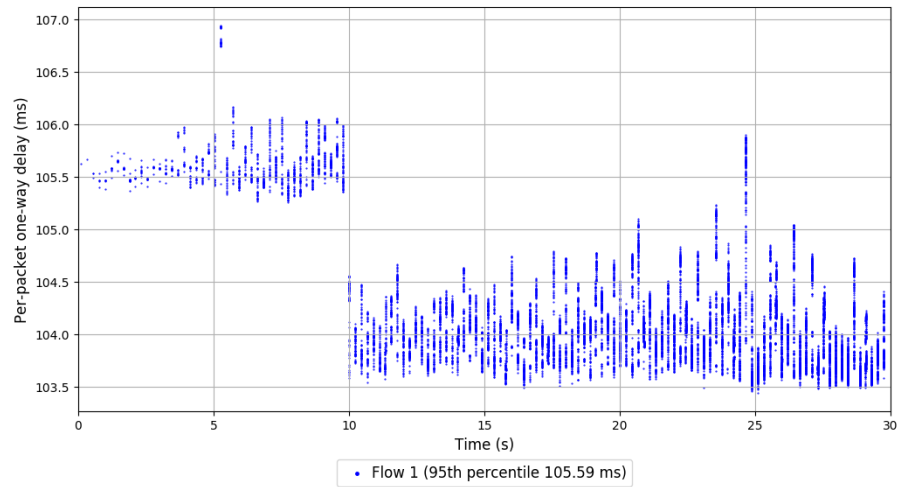
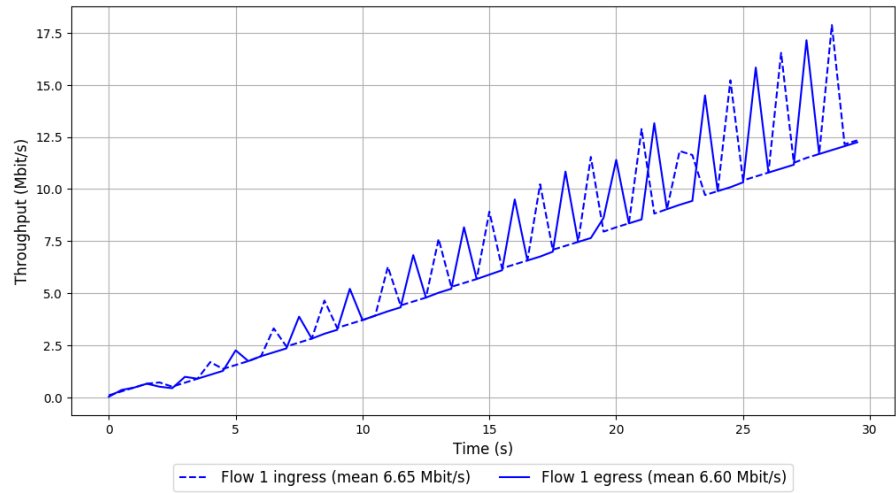
-- Flow 1:

Average throughput: 6.60 Mbit/s

95th percentile per-packet one-way delay: 105.586 ms

Loss rate: 1.56%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-03 02:03:09

End at: 2018-04-03 02:03:39

Below is generated by plot.py at 2018-04-03 04:59:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 110.999 ms

Loss rate: 1.06%

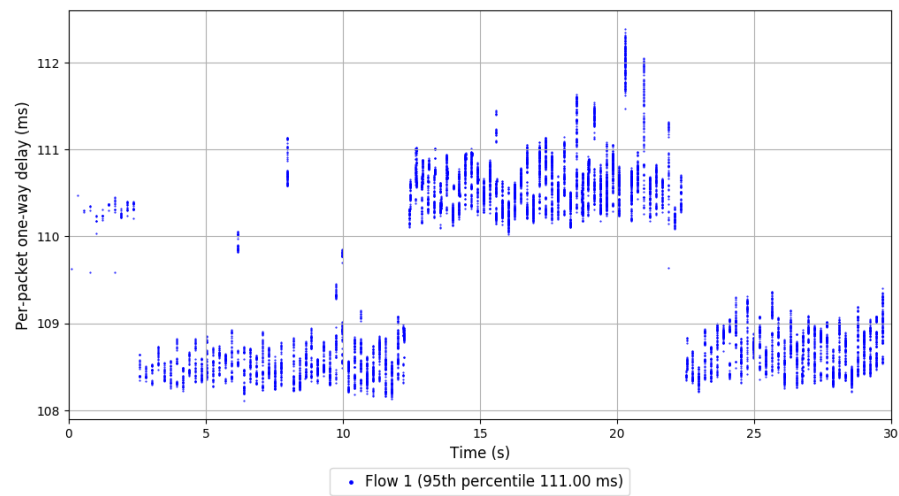
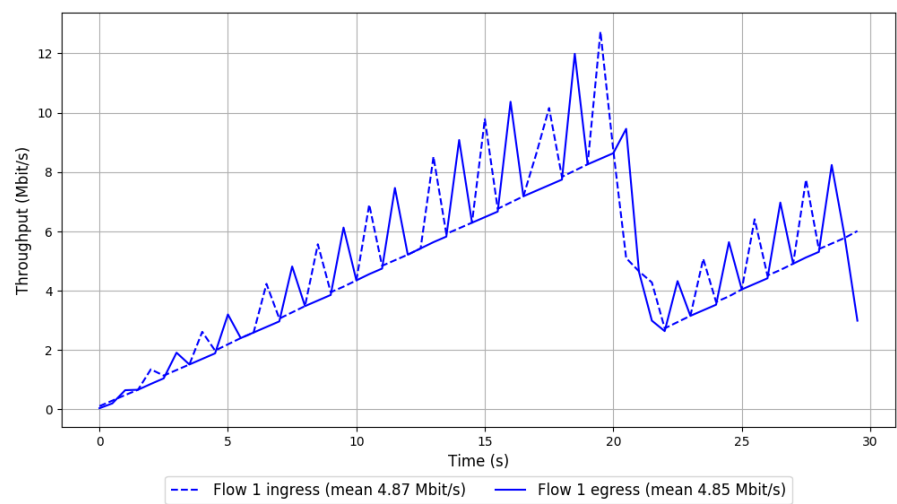
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 110.999 ms

Loss rate: 1.06%

Run 10: Report of LEDBAT — Data Link

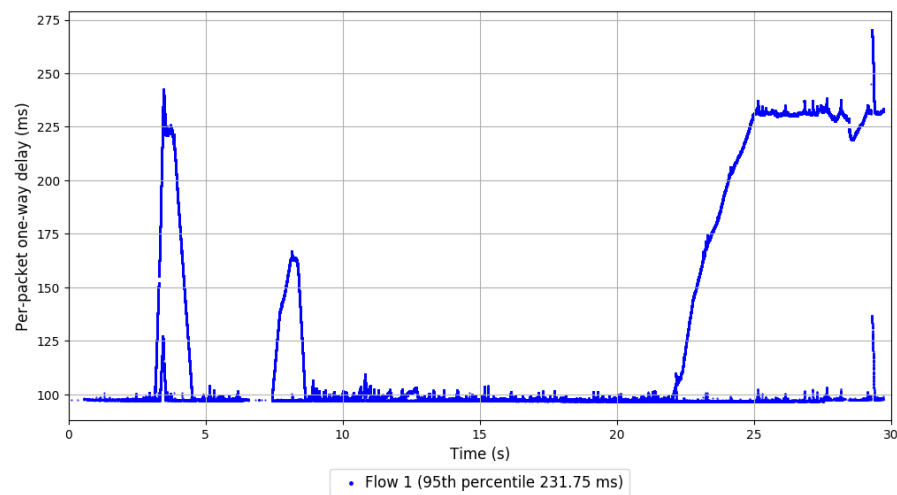
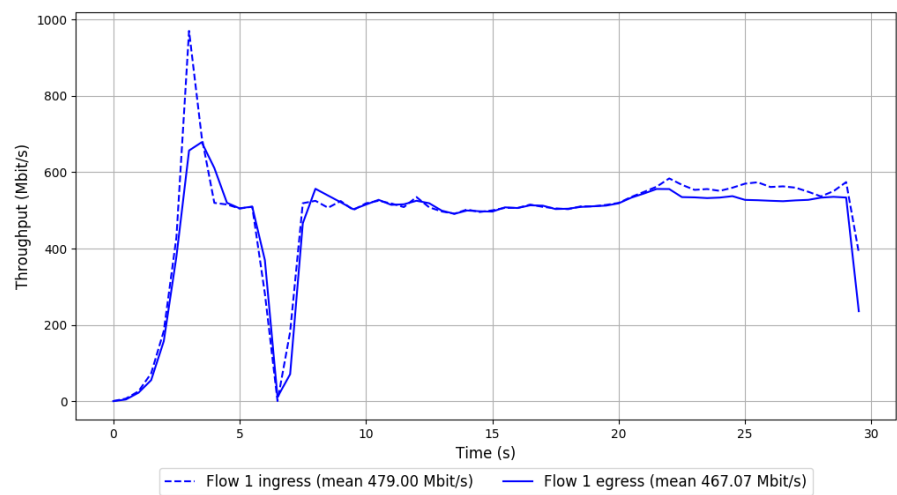


```
Run 1: Statistics of PCC

Start at: 2018-04-02 23:50:33
End at: 2018-04-02 23:51:03

# Below is generated by plot.py at 2018-04-03 05:06:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 467.07 Mbit/s
95th percentile per-packet one-way delay: 231.746 ms
Loss rate: 3.22%
-- Flow 1:
Average throughput: 467.07 Mbit/s
95th percentile per-packet one-way delay: 231.746 ms
Loss rate: 3.22%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-03 00:06:15

End at: 2018-04-03 00:06:45

Below is generated by plot.py at 2018-04-03 05:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.91 Mbit/s

95th percentile per-packet one-way delay: 209.033 ms

Loss rate: 1.19%

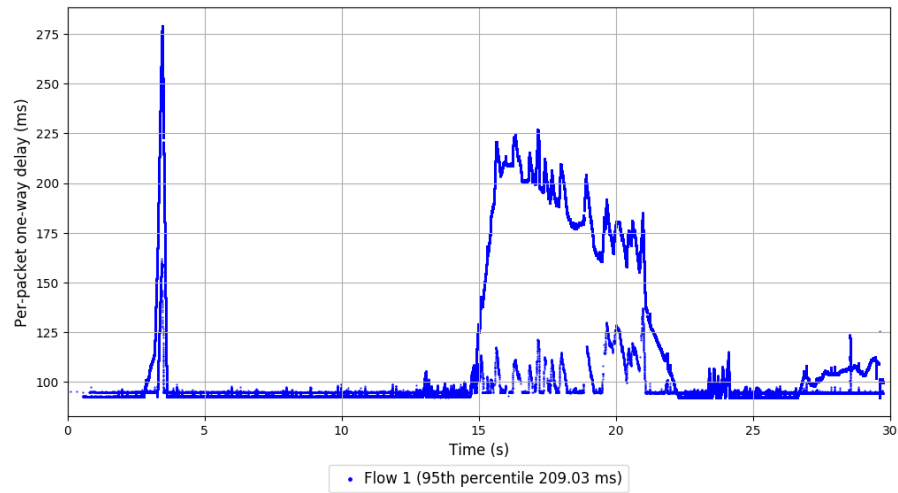
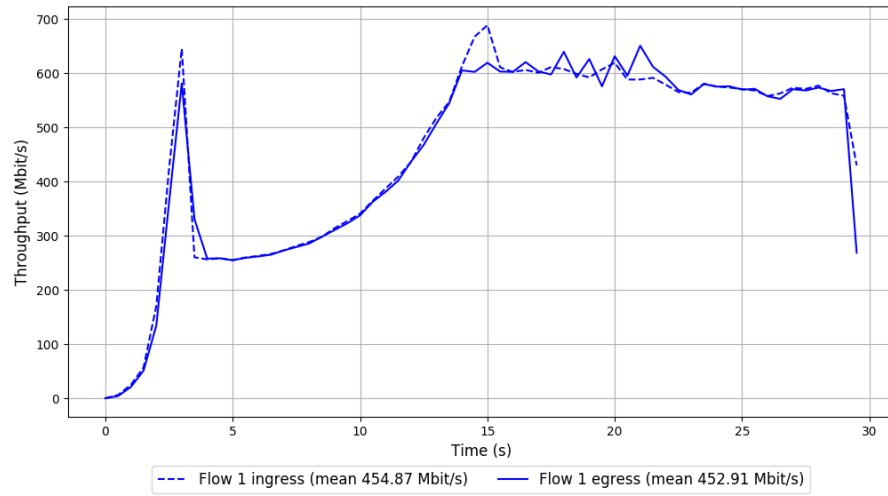
-- Flow 1:

Average throughput: 452.91 Mbit/s

95th percentile per-packet one-way delay: 209.033 ms

Loss rate: 1.19%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-03 00:21:33

End at: 2018-04-03 00:22:03

Below is generated by plot.py at 2018-04-03 05:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.48 Mbit/s

95th percentile per-packet one-way delay: 233.801 ms

Loss rate: 3.27%

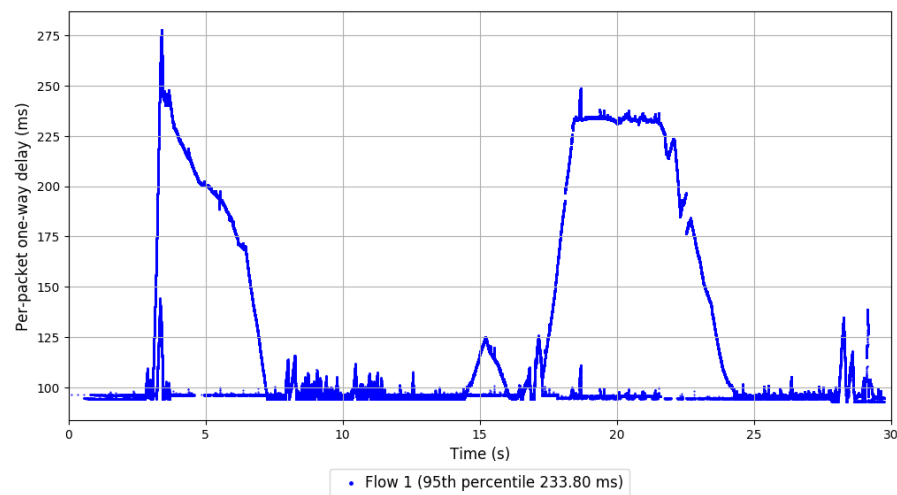
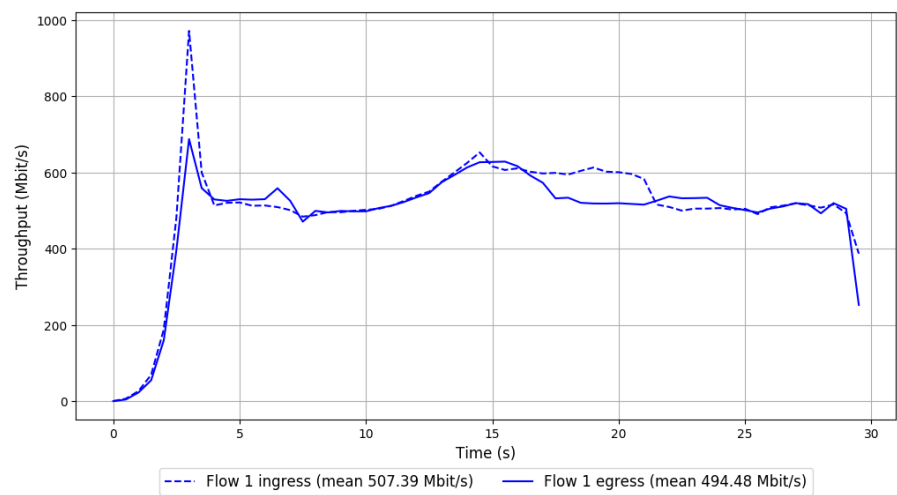
-- Flow 1:

Average throughput: 494.48 Mbit/s

95th percentile per-packet one-way delay: 233.801 ms

Loss rate: 3.27%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-03 00:37:00

End at: 2018-04-03 00:37:30

Below is generated by plot.py at 2018-04-03 05:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.20 Mbit/s

95th percentile per-packet one-way delay: 202.969 ms

Loss rate: 1.64%

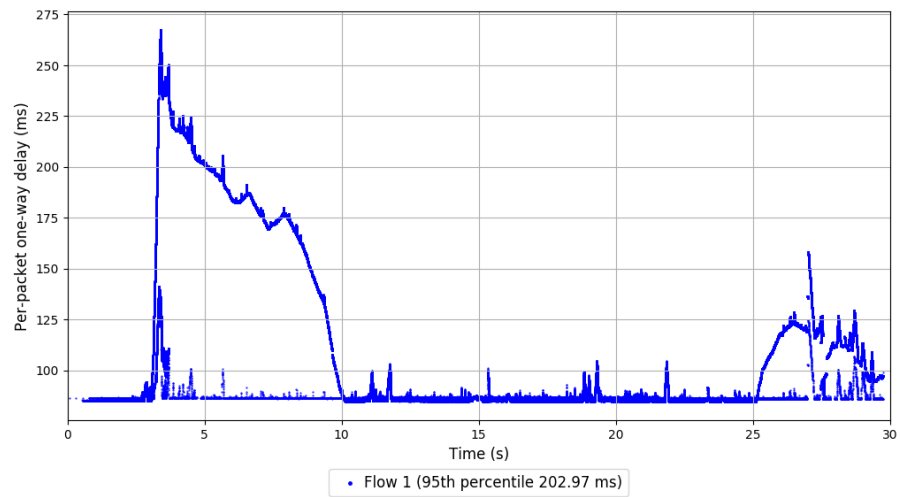
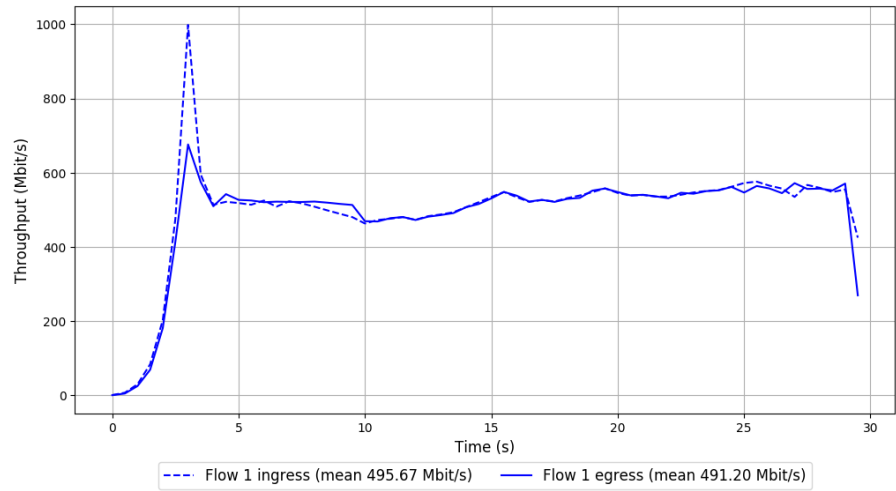
-- Flow 1:

Average throughput: 491.20 Mbit/s

95th percentile per-packet one-way delay: 202.969 ms

Loss rate: 1.64%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-03 00:52:25

End at: 2018-04-03 00:52:55

Below is generated by plot.py at 2018-04-03 05:07:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.47 Mbit/s

95th percentile per-packet one-way delay: 111.156 ms

Loss rate: 1.37%

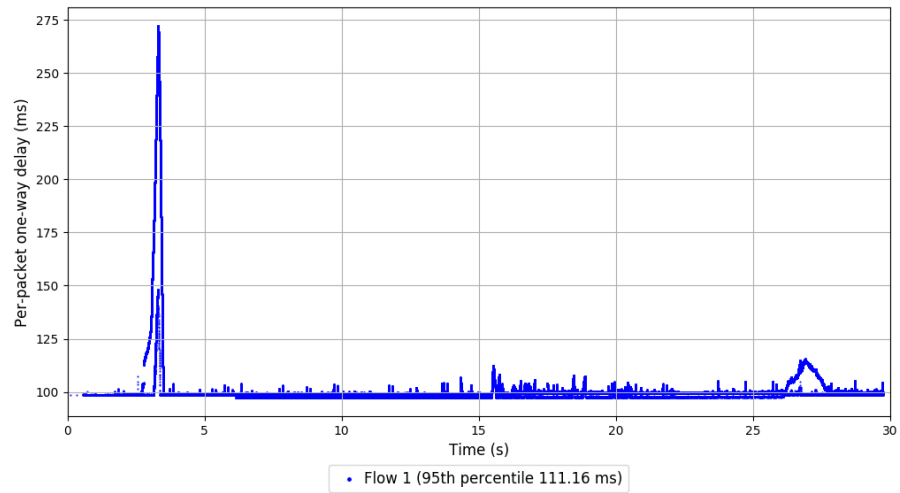
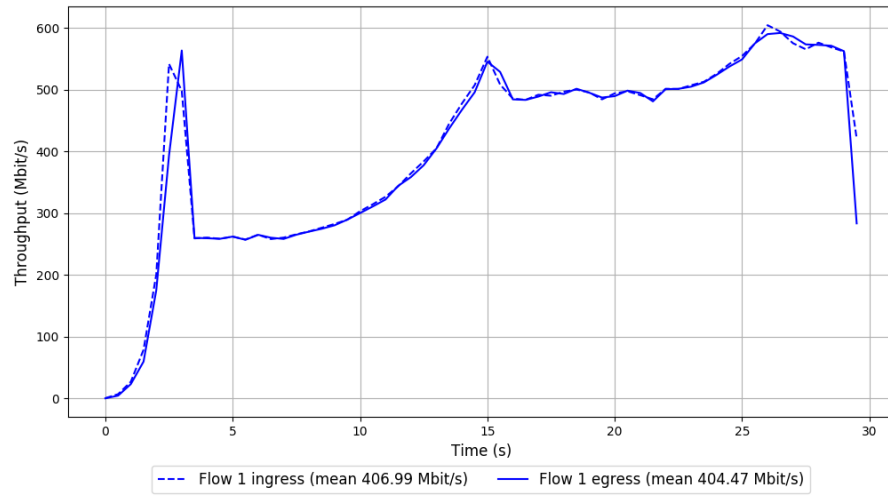
-- Flow 1:

Average throughput: 404.47 Mbit/s

95th percentile per-packet one-way delay: 111.156 ms

Loss rate: 1.37%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-03 01:07:47

End at: 2018-04-03 01:08:17

Below is generated by plot.py at 2018-04-03 05:07:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 477.42 Mbit/s

95th percentile per-packet one-way delay: 245.490 ms

Loss rate: 2.18%

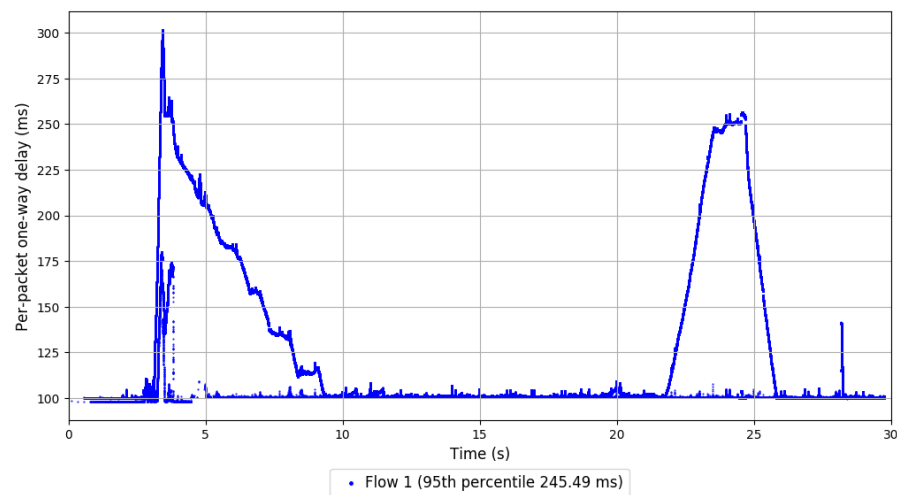
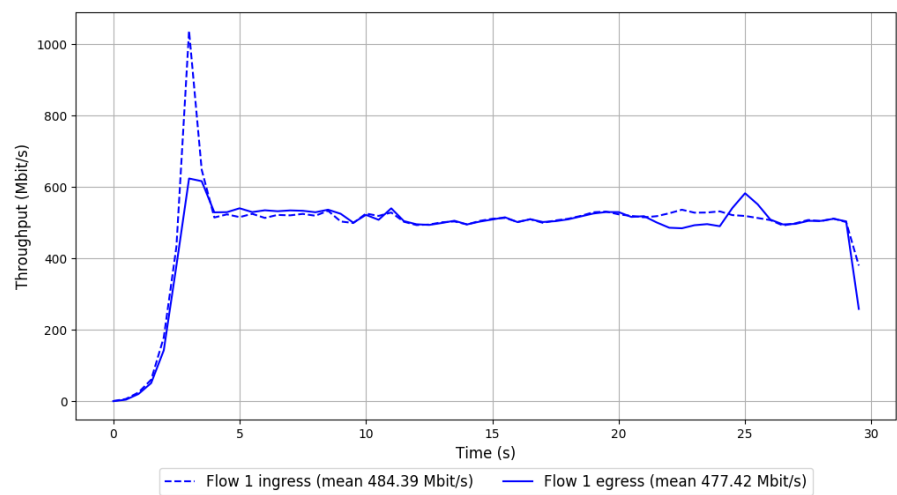
-- Flow 1:

Average throughput: 477.42 Mbit/s

95th percentile per-packet one-way delay: 245.490 ms

Loss rate: 2.18%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

Start at: 2018-04-03 01:22:54

End at: 2018-04-03 01:23:24

Below is generated by plot.py at 2018-04-03 05:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.87 Mbit/s

95th percentile per-packet one-way delay: 216.356 ms

Loss rate: 1.78%

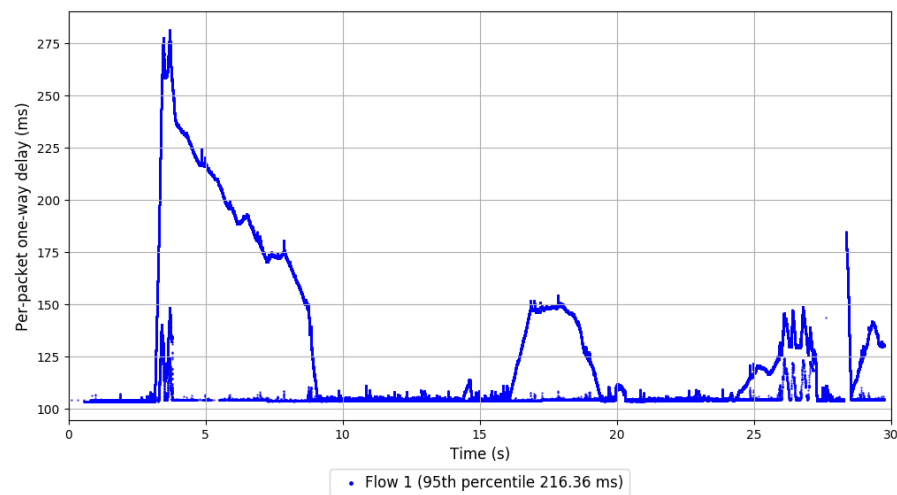
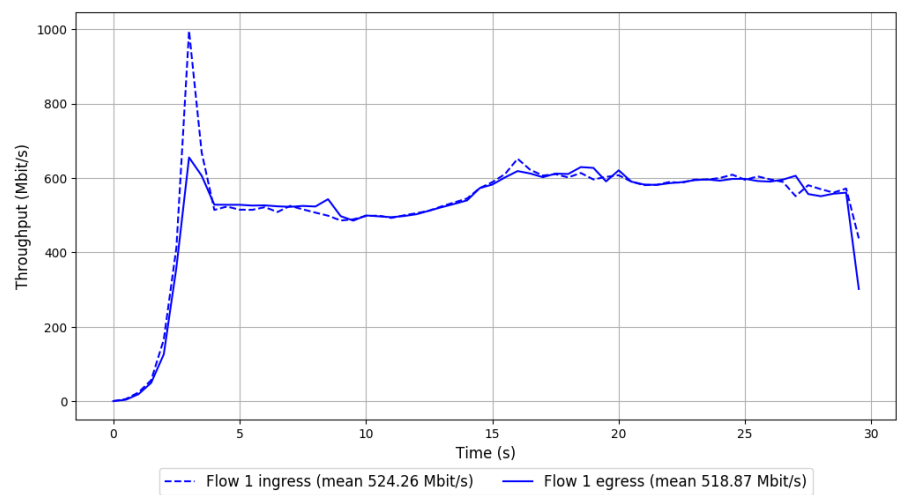
-- Flow 1:

Average throughput: 518.87 Mbit/s

95th percentile per-packet one-way delay: 216.356 ms

Loss rate: 1.78%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-03 01:38:28

End at: 2018-04-03 01:38:58

Below is generated by plot.py at 2018-04-03 05:08:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.24 Mbit/s

95th percentile per-packet one-way delay: 242.003 ms

Loss rate: 3.66%

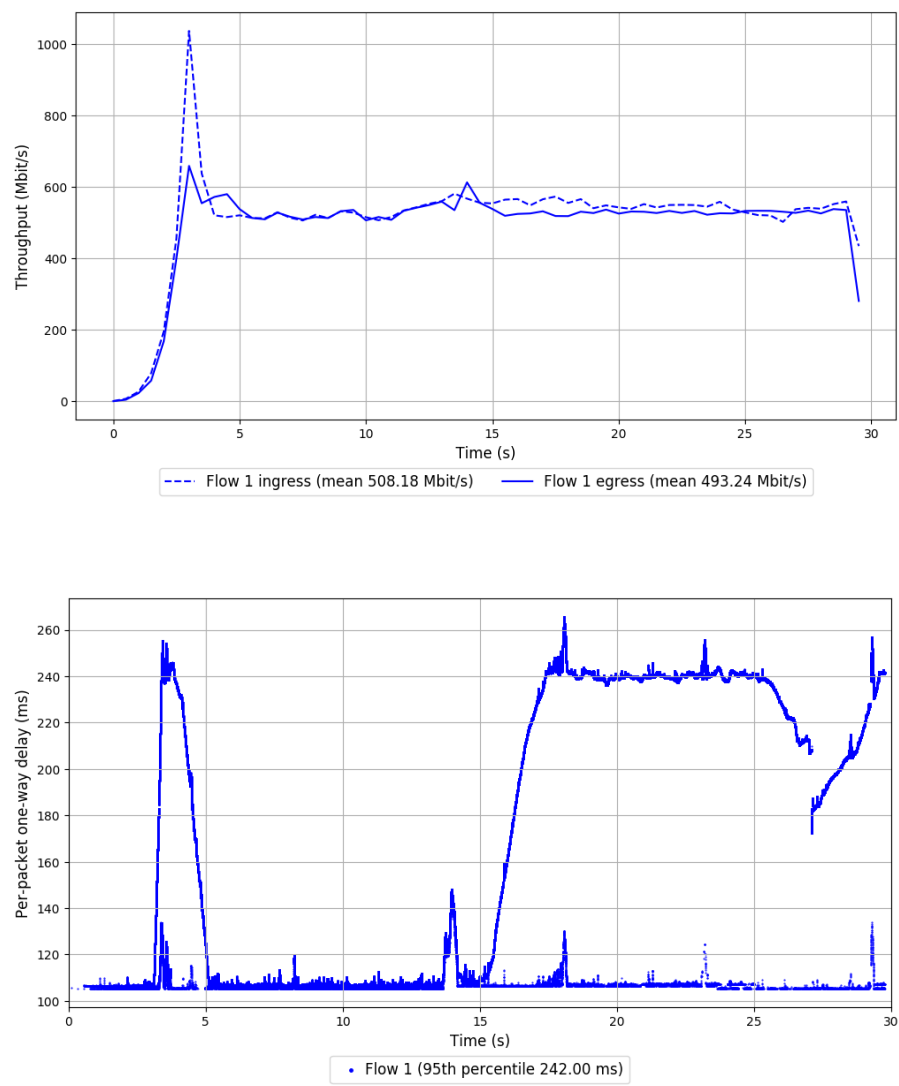
-- Flow 1:

Average throughput: 493.24 Mbit/s

95th percentile per-packet one-way delay: 242.003 ms

Loss rate: 3.66%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-03 01:53:44

End at: 2018-04-03 01:54:14

Below is generated by plot.py at 2018-04-03 05:13:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 404.82 Mbit/s

95th percentile per-packet one-way delay: 146.242 ms

Loss rate: 1.26%

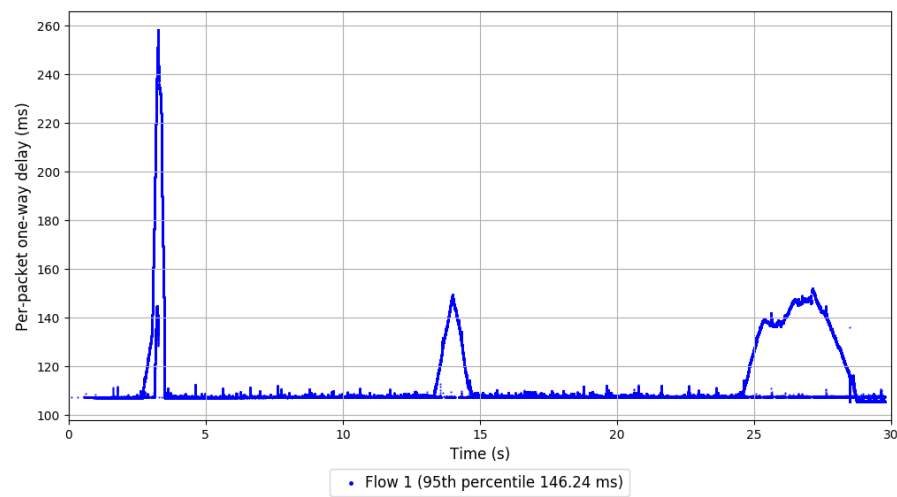
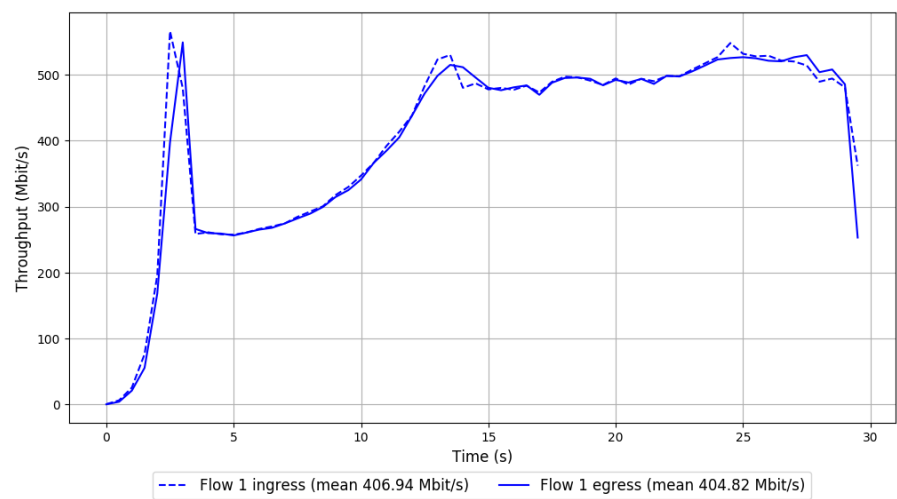
-- Flow 1:

Average throughput: 404.82 Mbit/s

95th percentile per-packet one-way delay: 146.242 ms

Loss rate: 1.26%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-03 02:09:05

End at: 2018-04-03 02:09:35

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.49 Mbit/s

95th percentile per-packet one-way delay: 249.092 ms

Loss rate: 2.56%

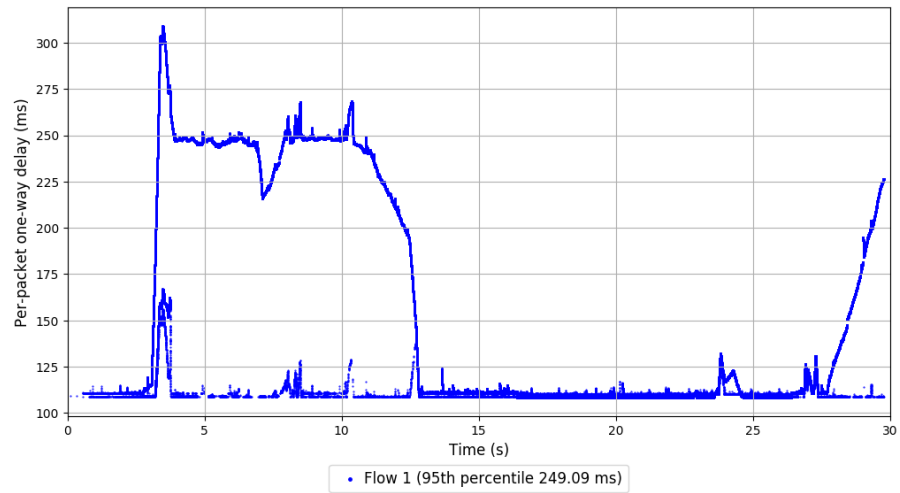
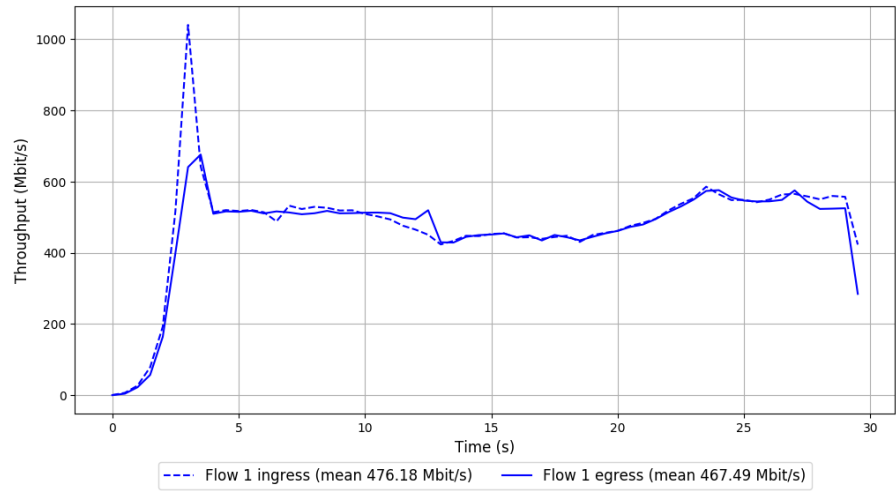
-- Flow 1:

Average throughput: 467.49 Mbit/s

95th percentile per-packet one-way delay: 249.092 ms

Loss rate: 2.56%

Run 10: Report of PCC — Data Link

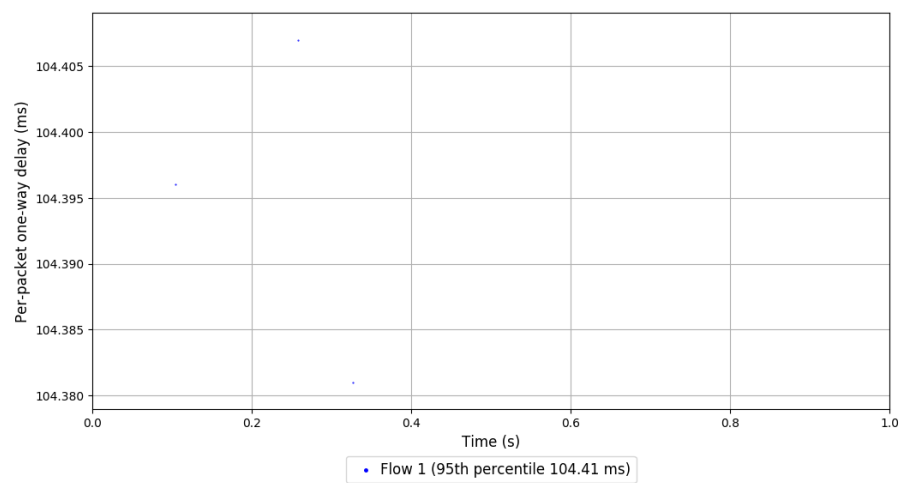
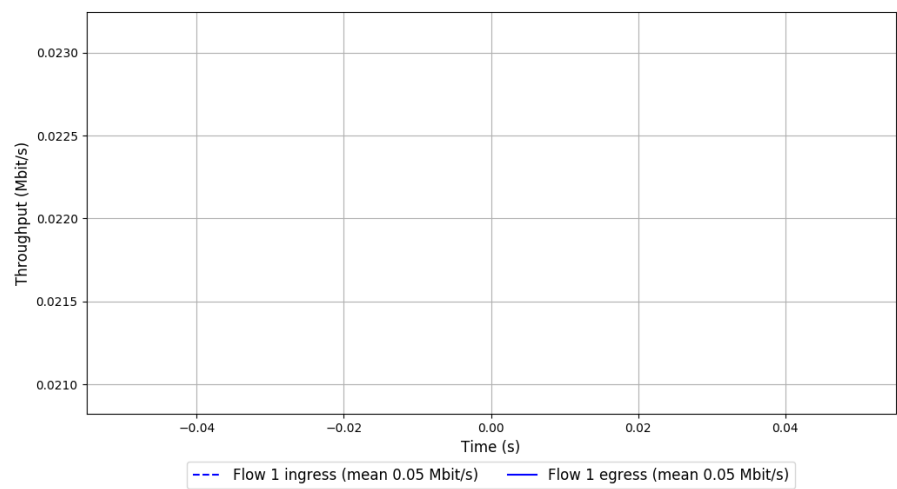


Run 1: Statistics of QUIC Cubic

Start at: 2018-04-02 23:47:32

End at: 2018-04-02 23:48:02

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-03 00:03:05

End at: 2018-04-03 00:03:35

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.38 Mbit/s

95th percentile per-packet one-way delay: 97.219 ms

Loss rate: 0.95%

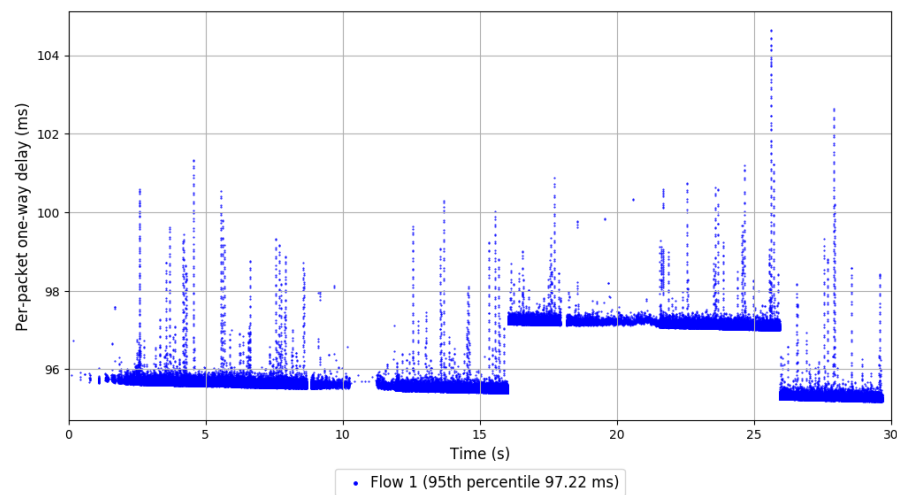
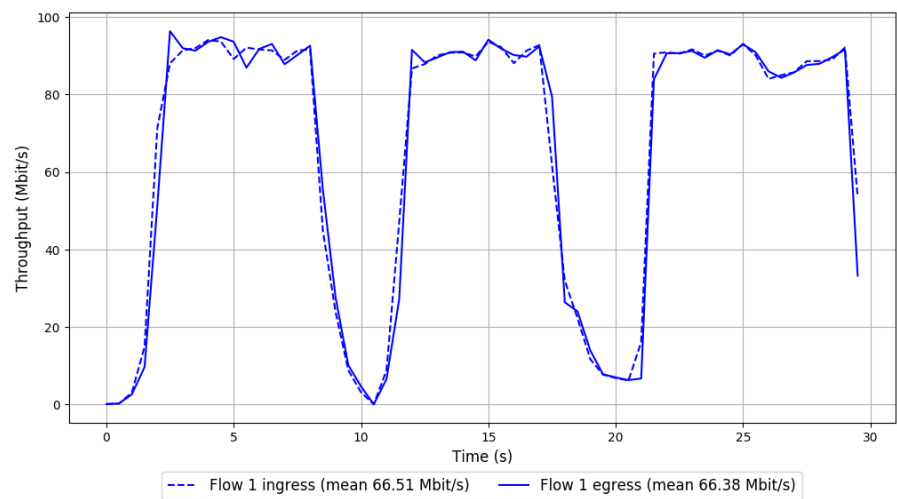
-- Flow 1:

Average throughput: 66.38 Mbit/s

95th percentile per-packet one-way delay: 97.219 ms

Loss rate: 0.95%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-03 00:18:25

End at: 2018-04-03 00:18:55

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.05 Mbit/s

95th percentile per-packet one-way delay: 99.938 ms

Loss rate: 0.98%

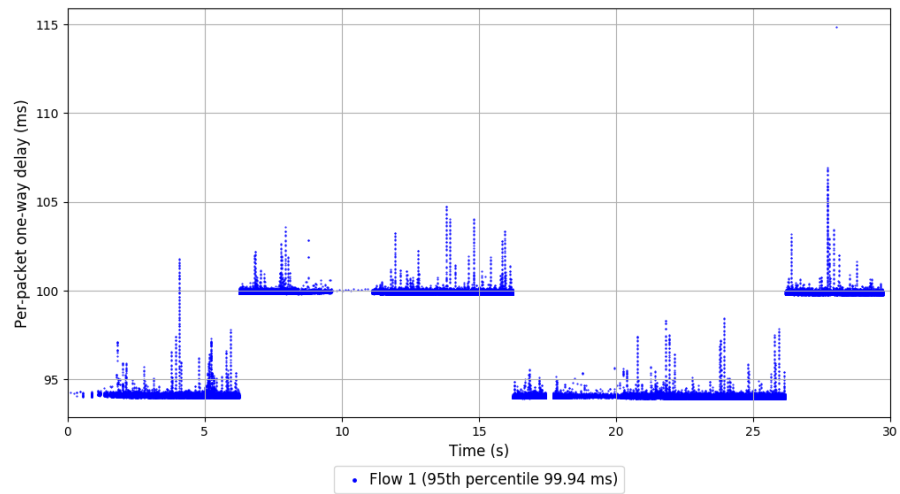
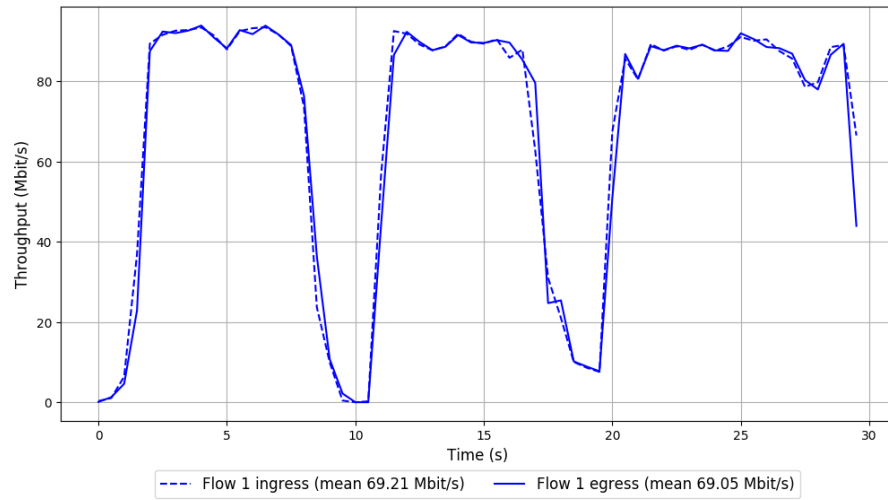
-- Flow 1:

Average throughput: 69.05 Mbit/s

95th percentile per-packet one-way delay: 99.938 ms

Loss rate: 0.98%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-03 00:33:52

End at: 2018-04-03 00:34:22

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 88.771 ms

Loss rate: 0.99%

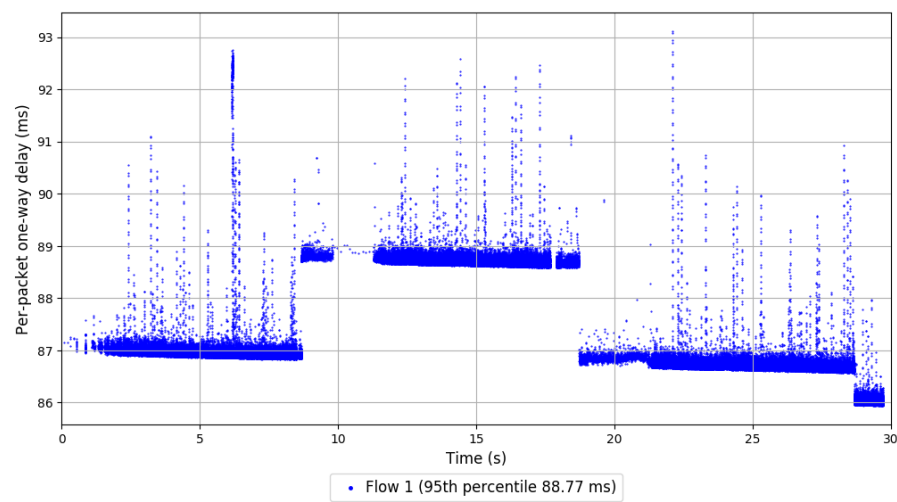
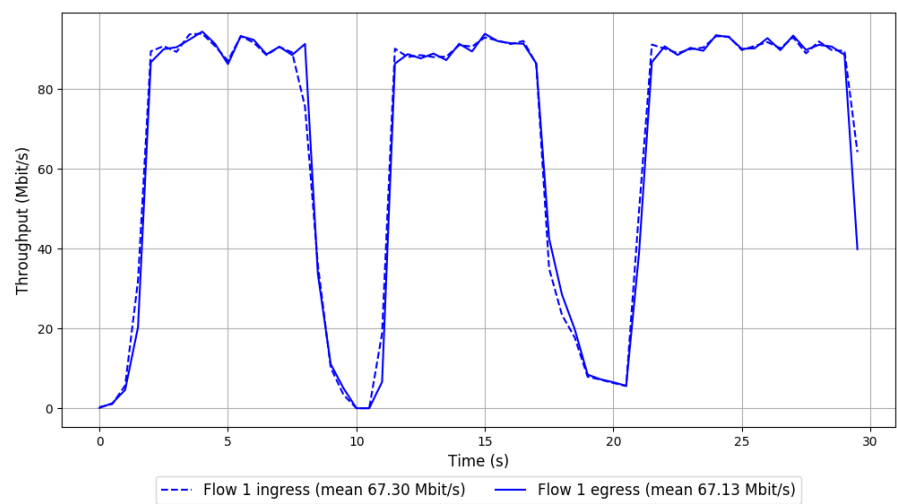
-- Flow 1:

Average throughput: 67.13 Mbit/s

95th percentile per-packet one-way delay: 88.771 ms

Loss rate: 0.99%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-03 00:49:15

End at: 2018-04-03 00:49:45

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 96.350 ms

Loss rate: 0.66%

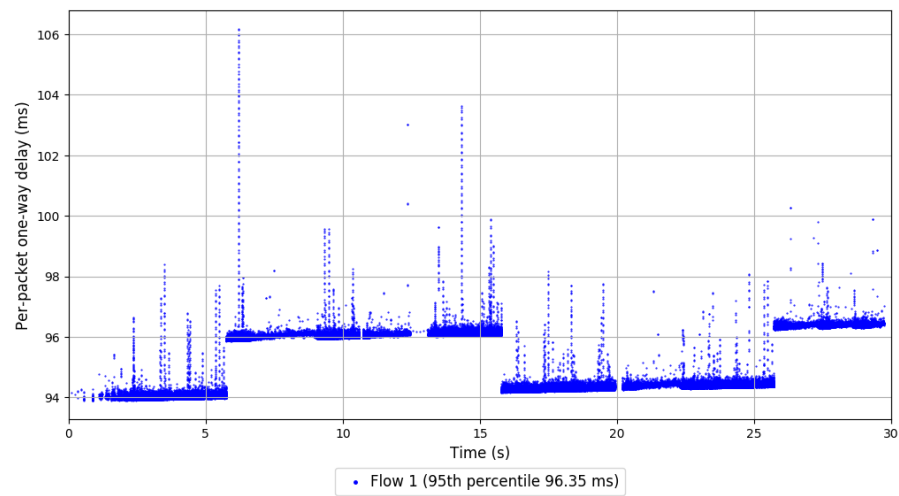
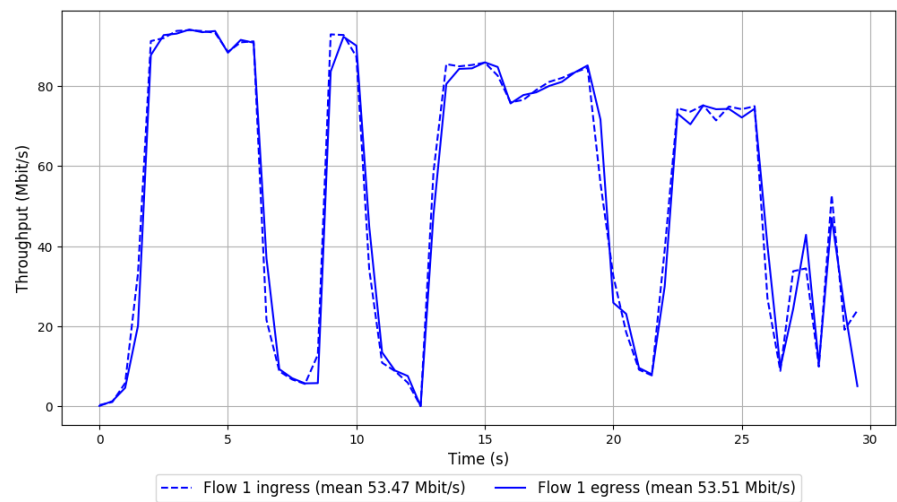
-- Flow 1:

Average throughput: 53.51 Mbit/s

95th percentile per-packet one-way delay: 96.350 ms

Loss rate: 0.66%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-03 01:04:37

End at: 2018-04-03 01:05:07

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.52 Mbit/s

95th percentile per-packet one-way delay: 101.043 ms

Loss rate: 0.97%

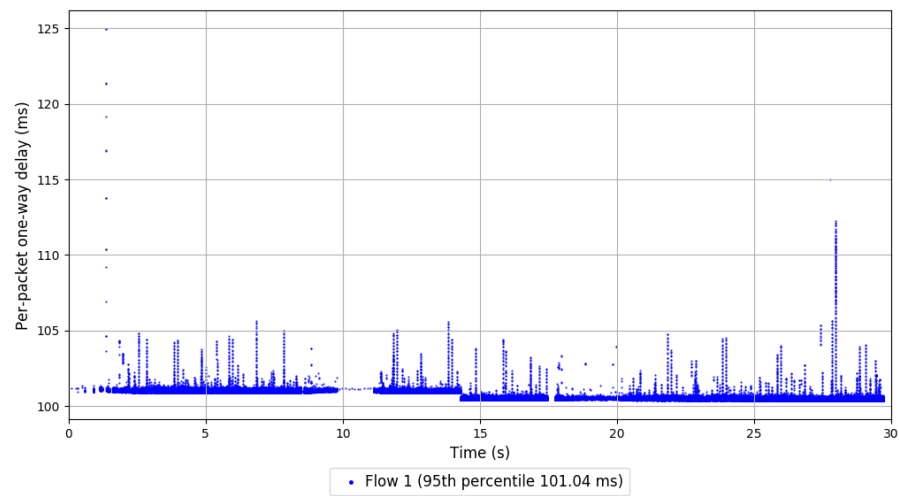
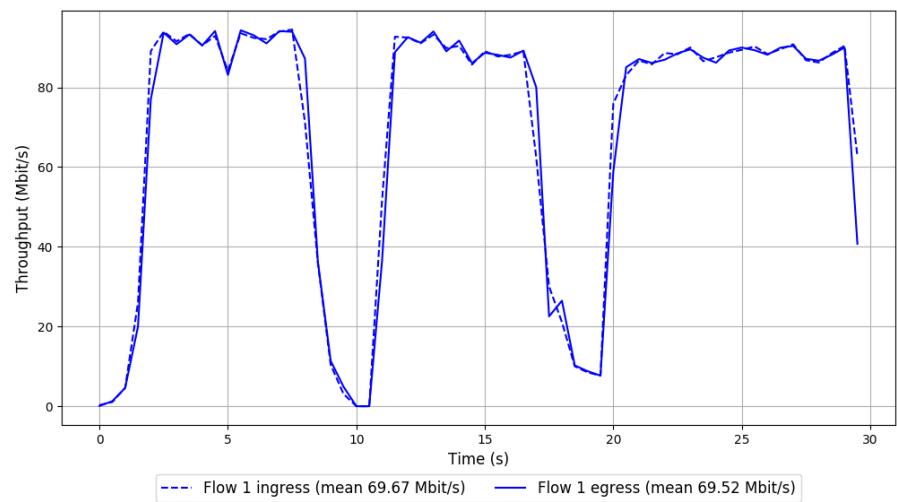
-- Flow 1:

Average throughput: 69.52 Mbit/s

95th percentile per-packet one-way delay: 101.043 ms

Loss rate: 0.97%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-03 01:19:44

End at: 2018-04-03 01:20:14

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 101.581 ms

Loss rate: 1.05%

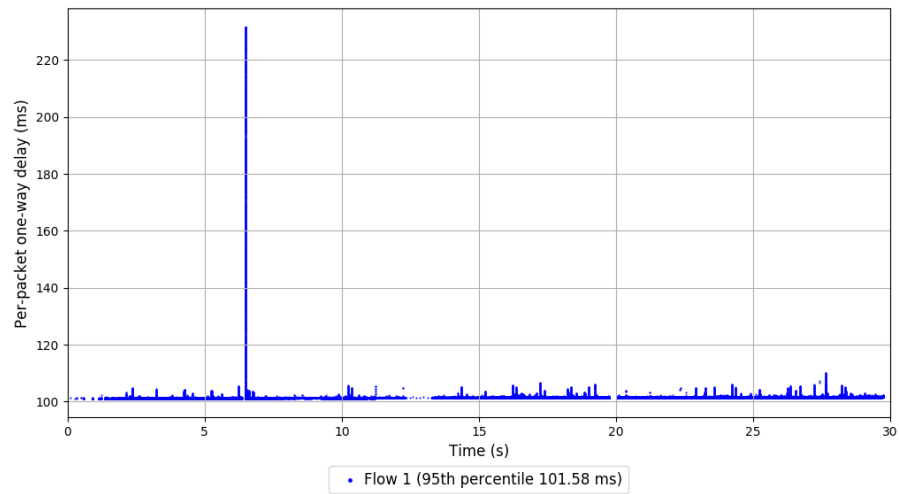
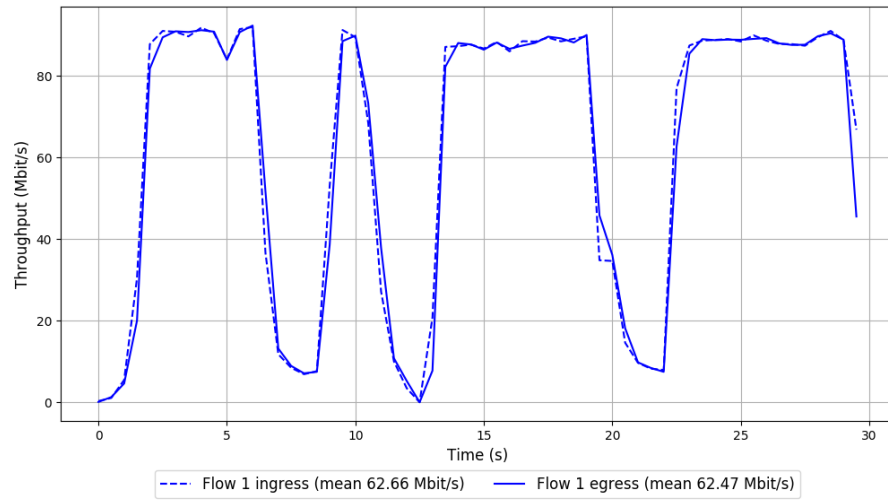
-- Flow 1:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 101.581 ms

Loss rate: 1.05%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-03 01:35:18

End at: 2018-04-03 01:35:48

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.49 Mbit/s

95th percentile per-packet one-way delay: 107.468 ms

Loss rate: 1.01%

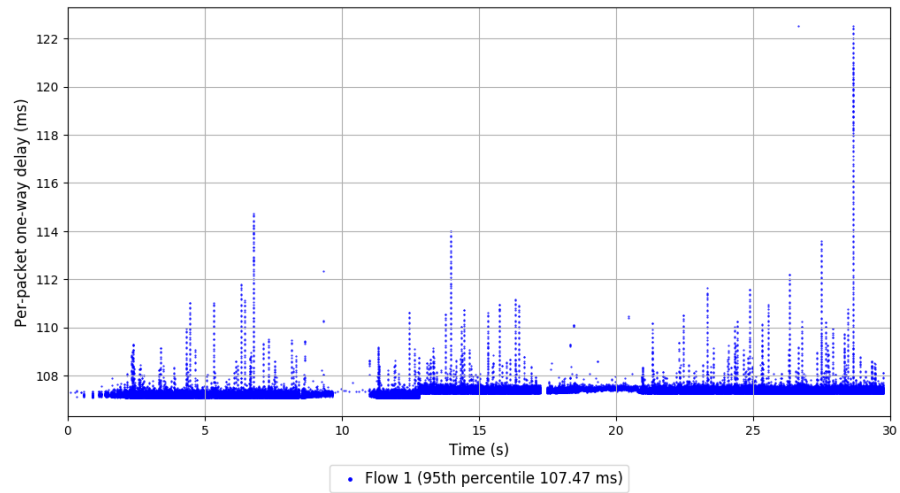
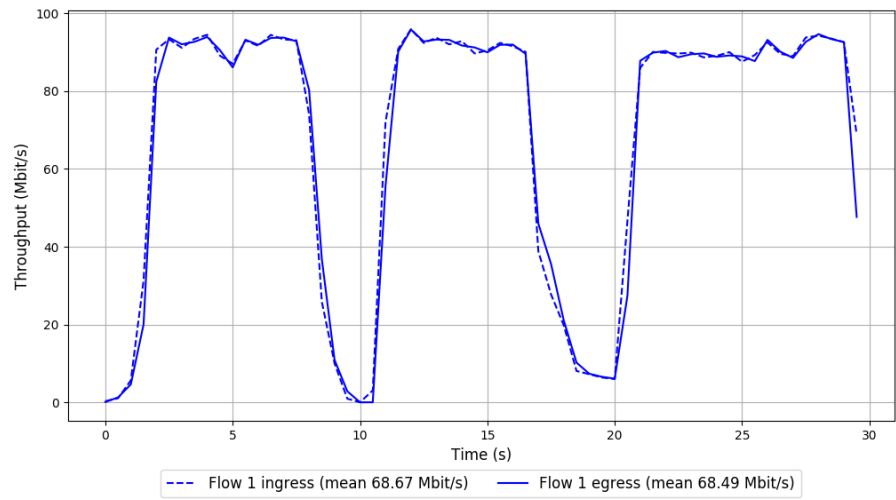
-- Flow 1:

Average throughput: 68.49 Mbit/s

95th percentile per-packet one-way delay: 107.468 ms

Loss rate: 1.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-03 01:50:38

End at: 2018-04-03 01:51:08

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.11 Mbit/s

95th percentile per-packet one-way delay: 105.977 ms

Loss rate: 0.99%

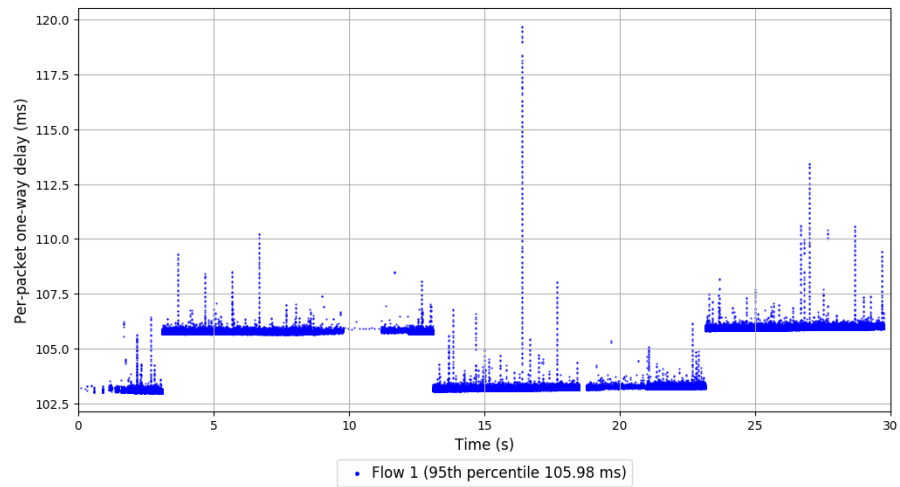
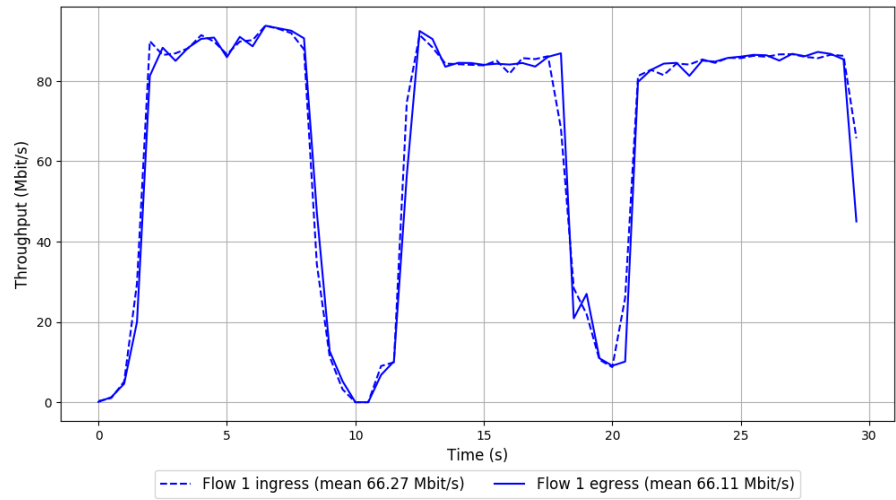
-- Flow 1:

Average throughput: 66.11 Mbit/s

95th percentile per-packet one-way delay: 105.977 ms

Loss rate: 0.99%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-03 02:05:55

End at: 2018-04-03 02:06:25

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 0.98%

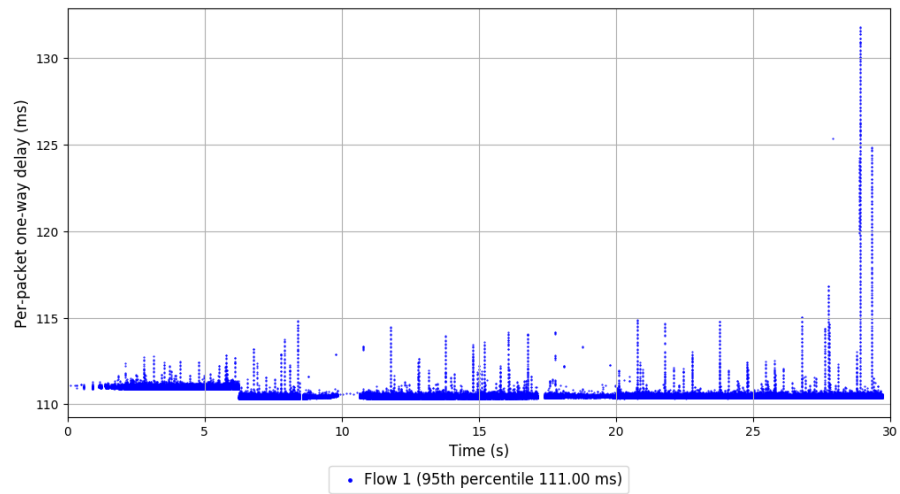
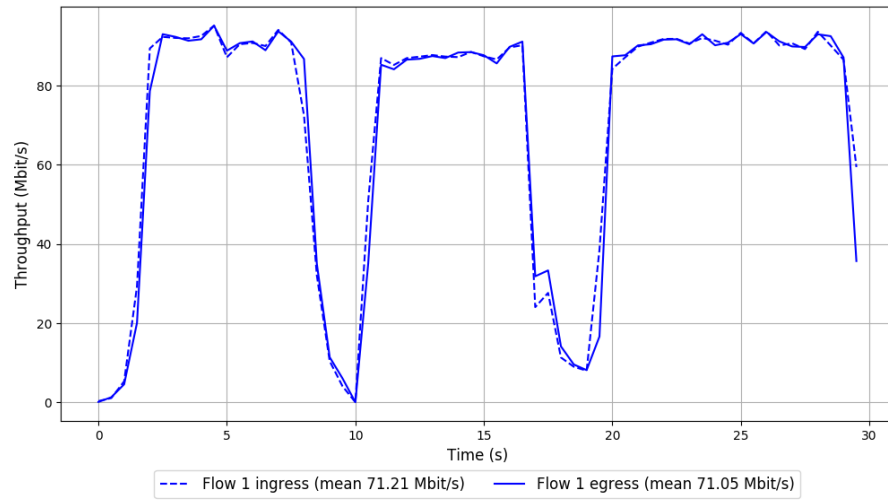
-- Flow 1:

Average throughput: 71.05 Mbit/s

95th percentile per-packet one-way delay: 111.004 ms

Loss rate: 0.98%

Run 10: Report of QUIC Cubic — Data Link

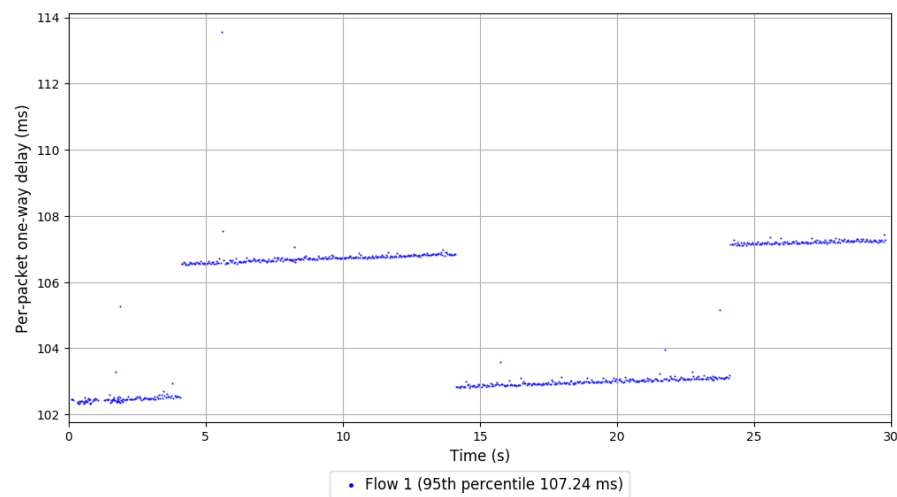
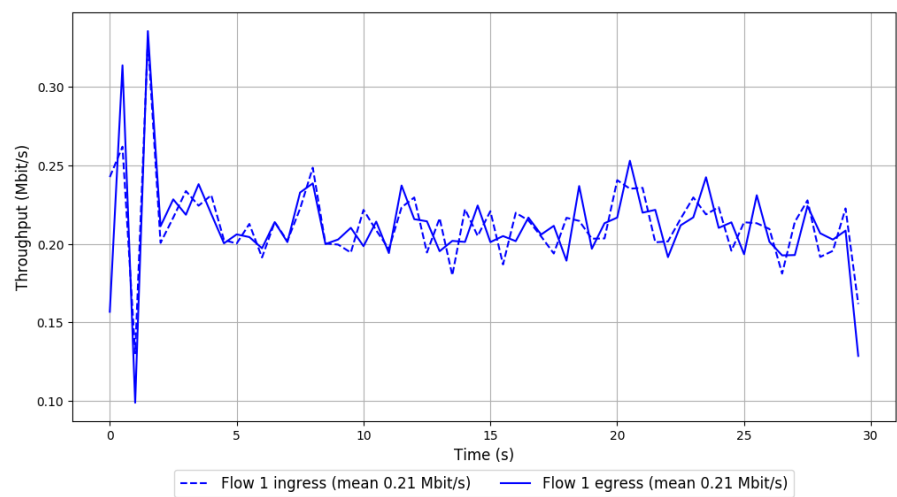


```
Run 1: Statistics of SCReAM

Start at: 2018-04-02 23:43:17
End at: 2018-04-02 23:43:47

# Below is generated by plot.py at 2018-04-03 05:14:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 107.239 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 107.239 ms
Loss rate: 0.63%
```

Run 1: Report of SReAM — Data Link

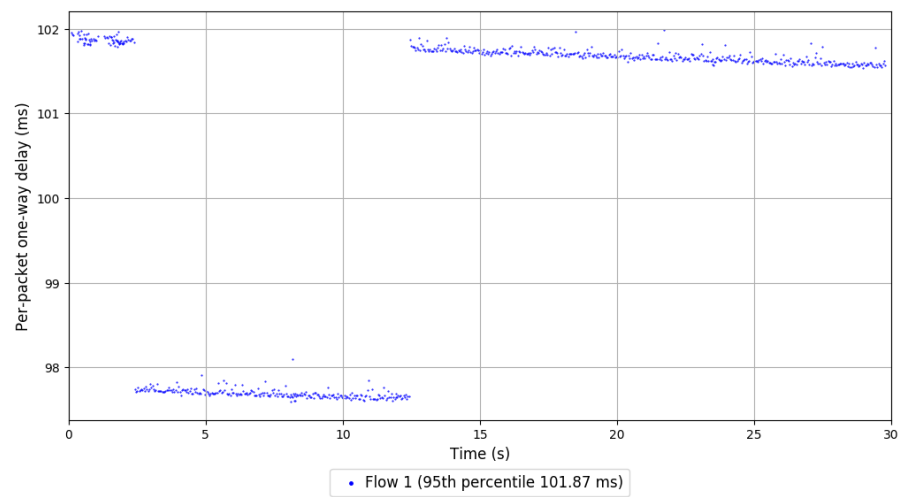
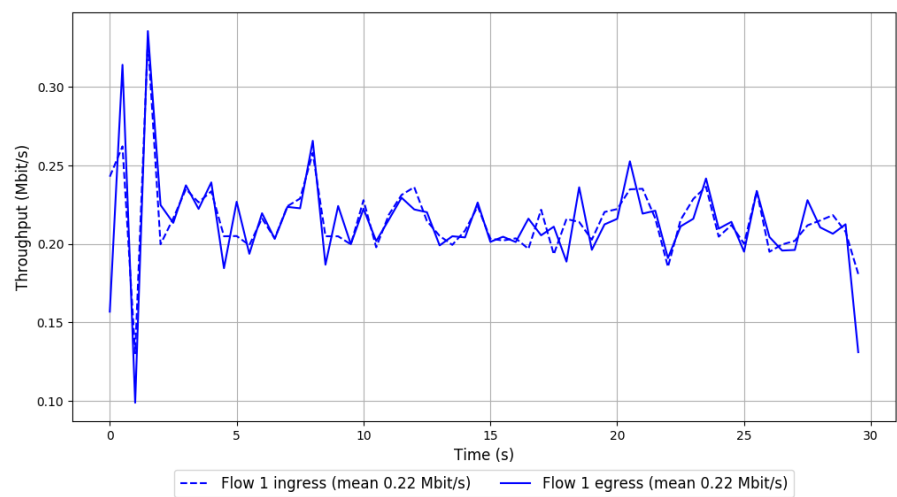


```
Run 2: Statistics of SCReAM

Start at: 2018-04-02 23:58:49
End at: 2018-04-02 23:59:19

# Below is generated by plot.py at 2018-04-03 05:14:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.873 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 101.873 ms
Loss rate: 0.76%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-03 00:14:08

End at: 2018-04-03 00:14:39

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.446 ms

Loss rate: 0.77%

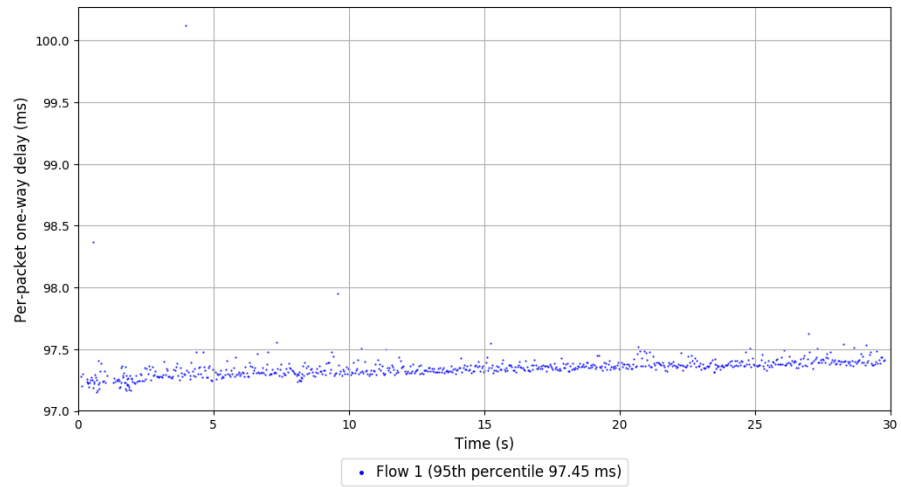
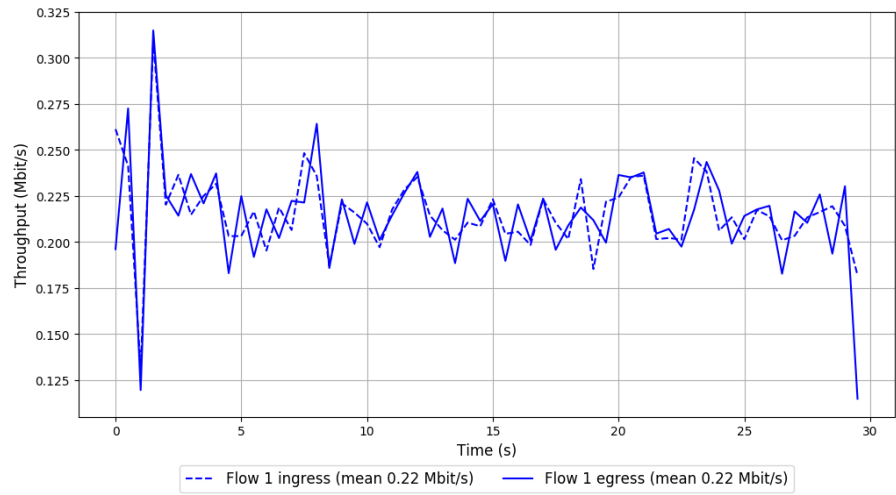
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 97.446 ms

Loss rate: 0.77%

Run 3: Report of SReAM — Data Link

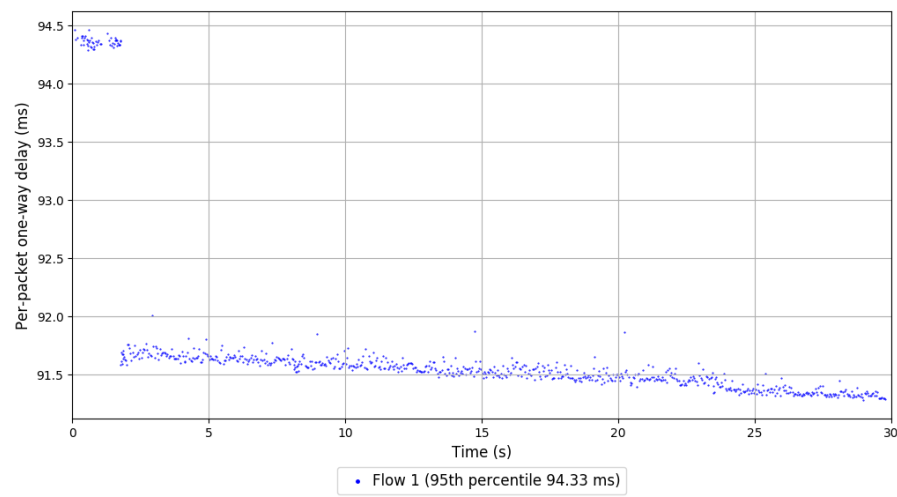
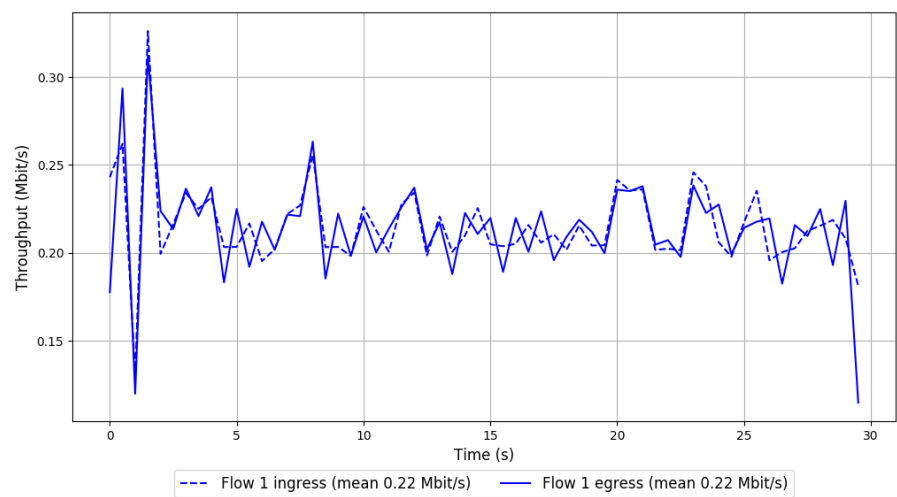


```
Run 4: Statistics of SCReAM

Start at: 2018-04-03 00:29:39
End at: 2018-04-03 00:30:09

# Below is generated by plot.py at 2018-04-03 05:14:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.334 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 94.334 ms
Loss rate: 0.76%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-03 00:45:01

End at: 2018-04-03 00:45:31

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 91.231 ms

Loss rate: 0.77%

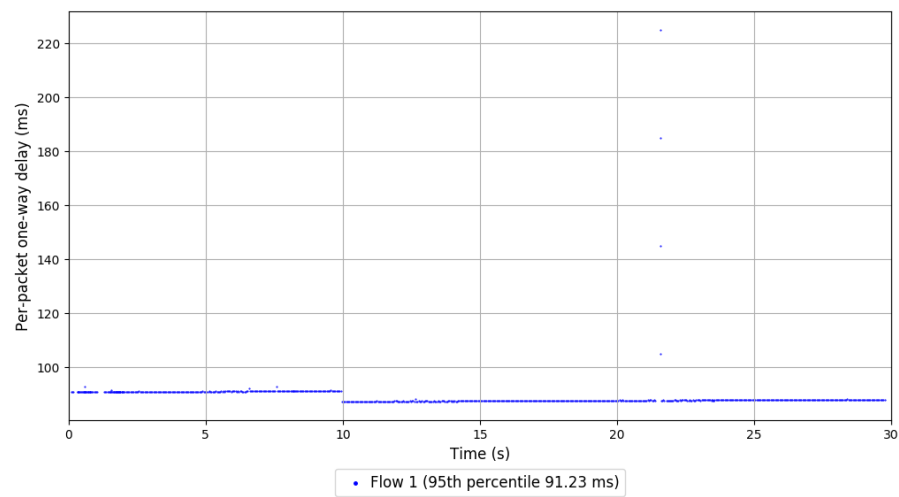
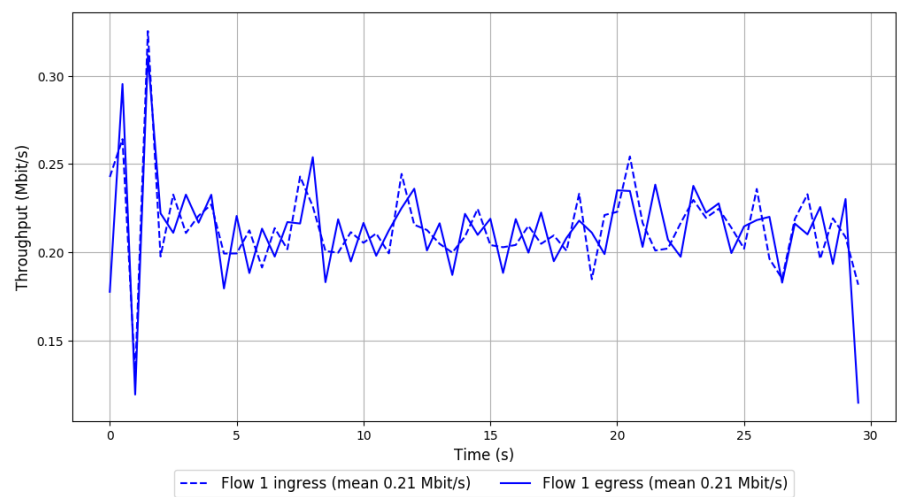
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 91.231 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-03 01:00:21

End at: 2018-04-03 01:00:51

Below is generated by plot.py at 2018-04-03 05:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.245 ms

Loss rate: 0.64%

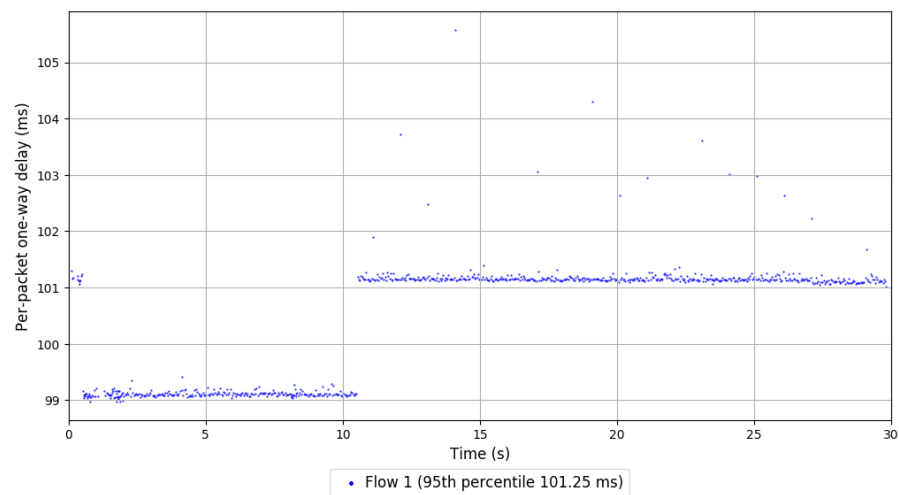
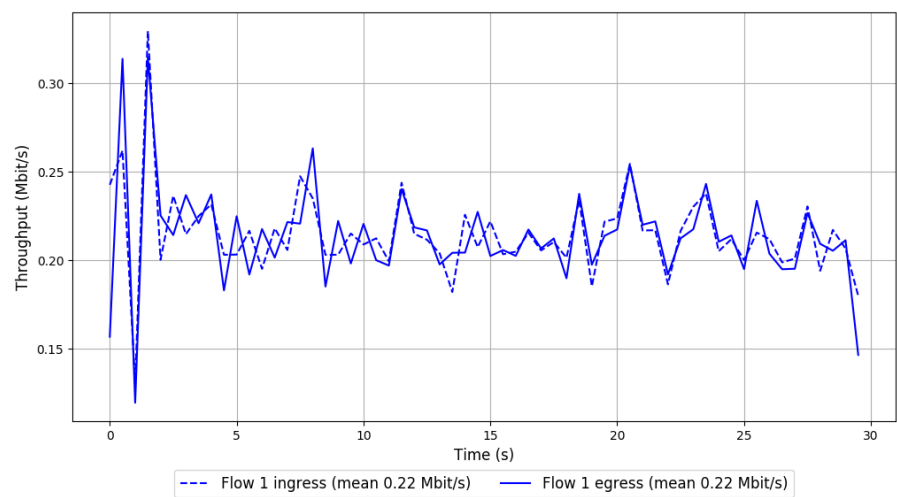
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.245 ms

Loss rate: 0.64%

Run 6: Report of SReAM — Data Link

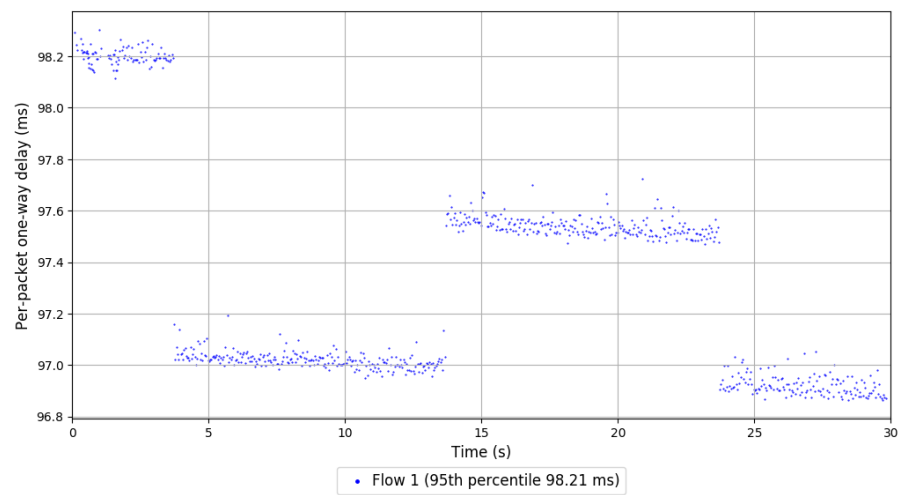
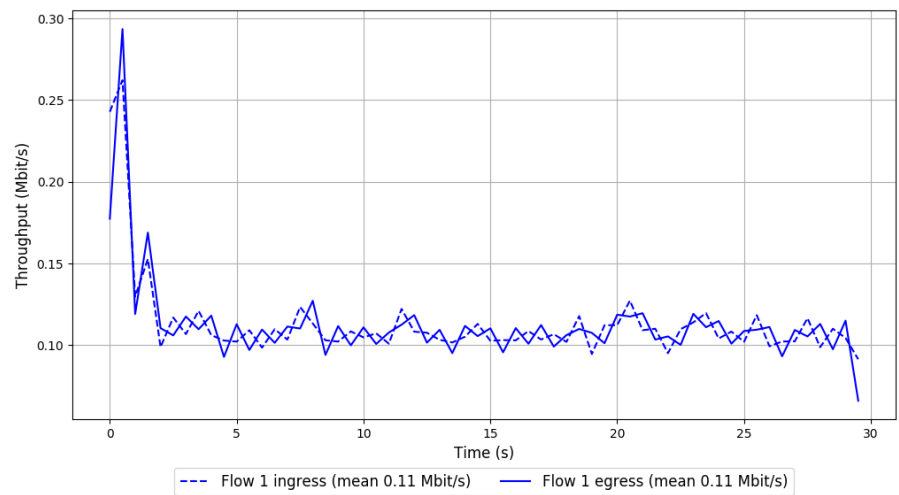


```
Run 7: Statistics of SCReAM

Start at: 2018-04-03 01:15:27
End at: 2018-04-03 01:15:57

# Below is generated by plot.py at 2018-04-03 05:14:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 98.206 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 98.206 ms
Loss rate: 0.61%
```

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-03 01:31:03

End at: 2018-04-03 01:31:33

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.312 ms

Loss rate: 0.64%

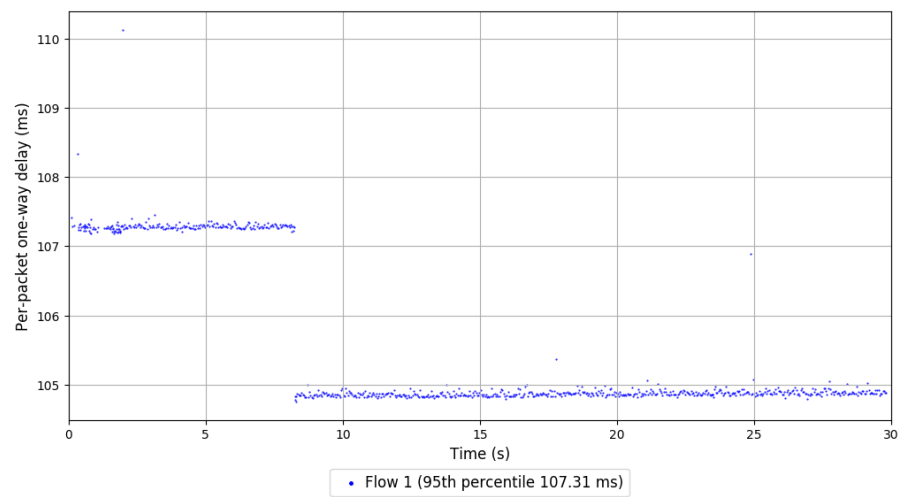
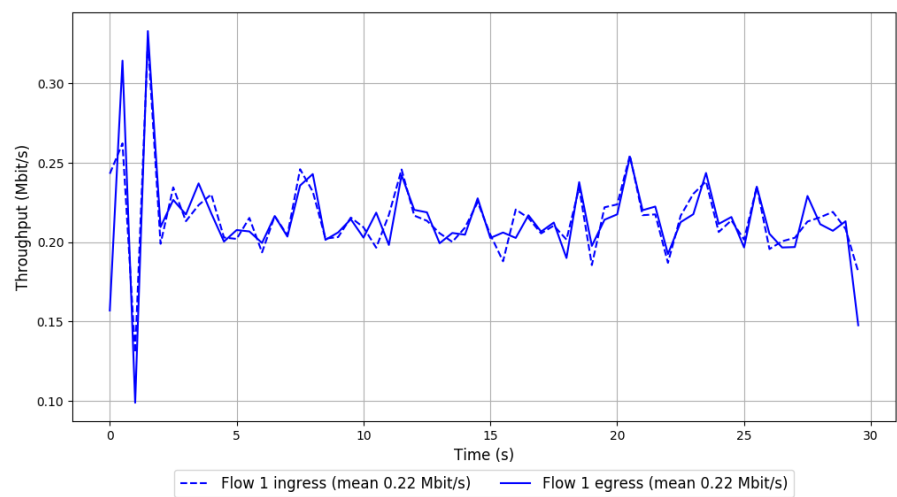
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.312 ms

Loss rate: 0.64%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-03 01:46:23

End at: 2018-04-03 01:46:53

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.954 ms

Loss rate: 0.76%

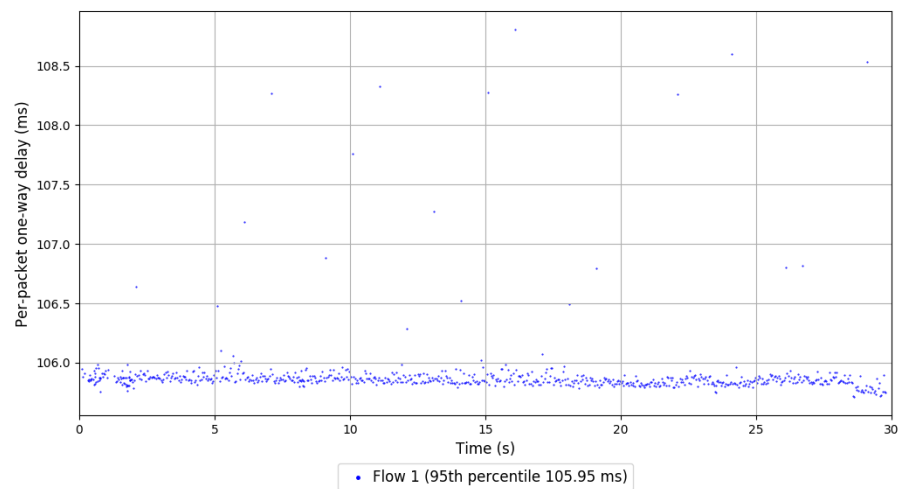
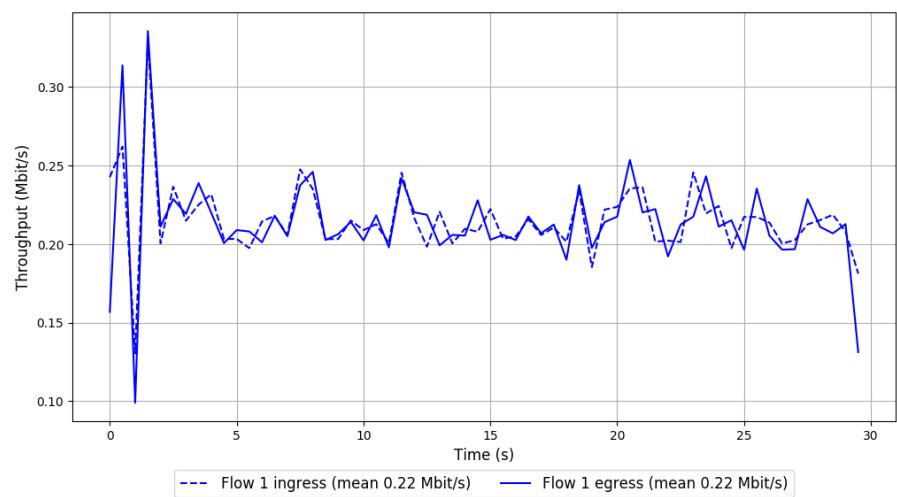
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 105.954 ms

Loss rate: 0.76%

Run 9: Report of SReAM — Data Link

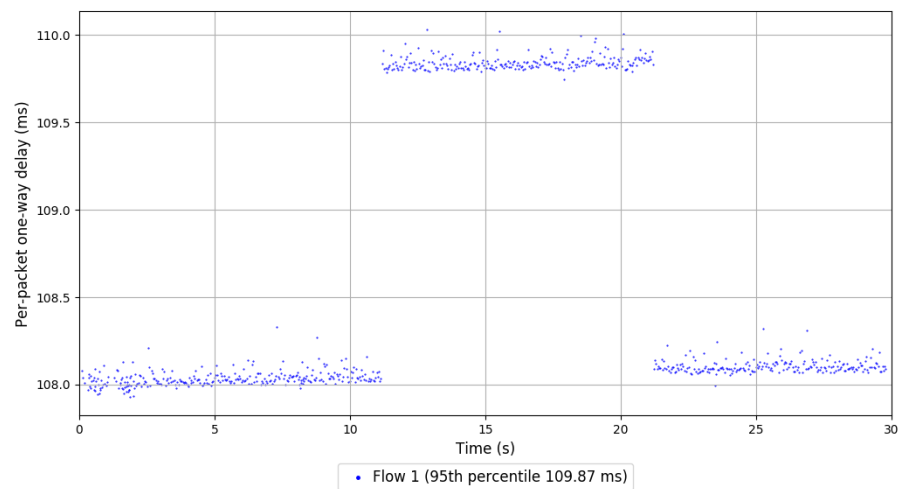
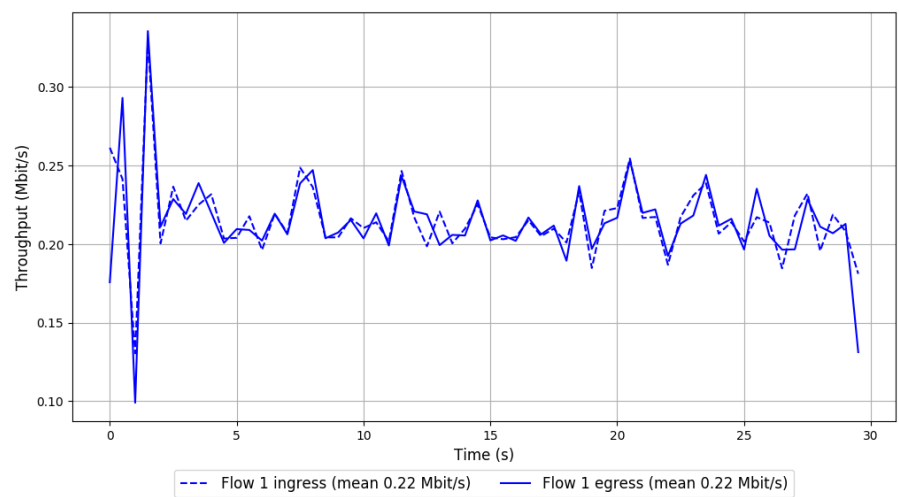


```
Run 10: Statistics of SReAM

Start at: 2018-04-03 02:01:40
End at: 2018-04-03 02:02:10

# Below is generated by plot.py at 2018-04-03 05:14:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.872 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.872 ms
Loss rate: 0.76%
```

Run 10: Report of SCRaM — Data Link

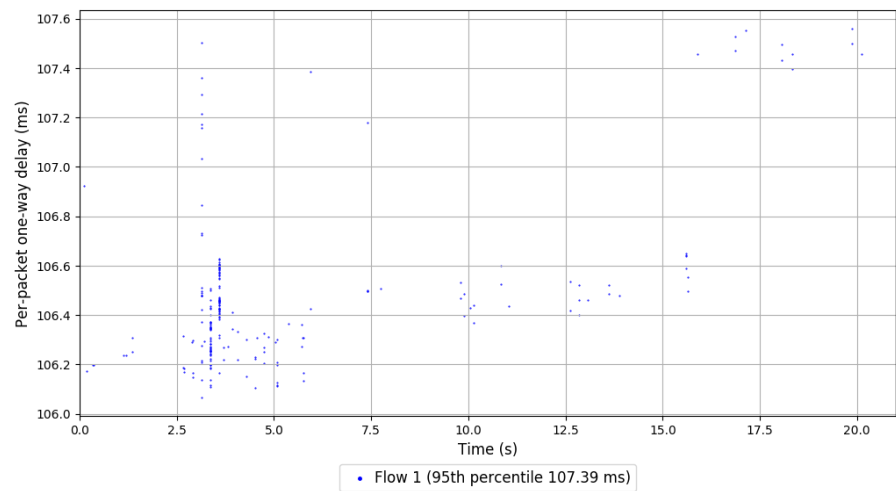
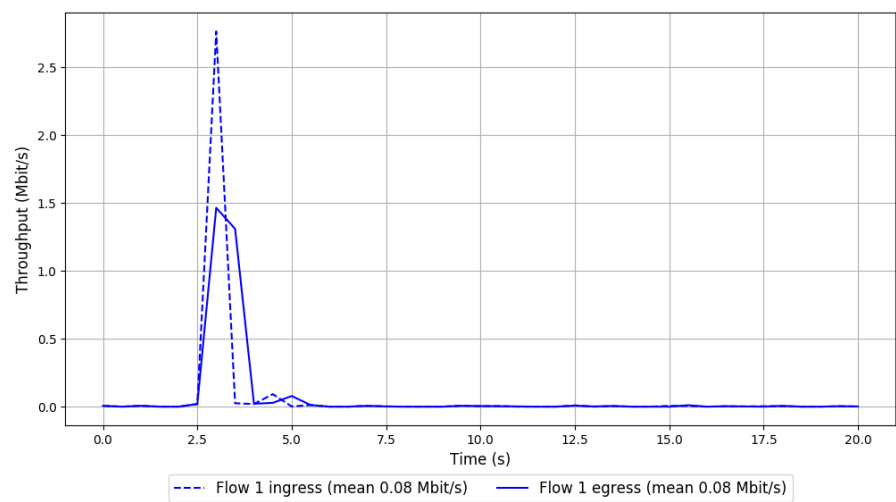


Run 1: Statistics of WebRTC media

Start at: 2018-04-02 23:38:48

End at: 2018-04-02 23:39:18

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-02 23:54:17

End at: 2018-04-02 23:54:47

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.238 ms

Loss rate: 0.00%

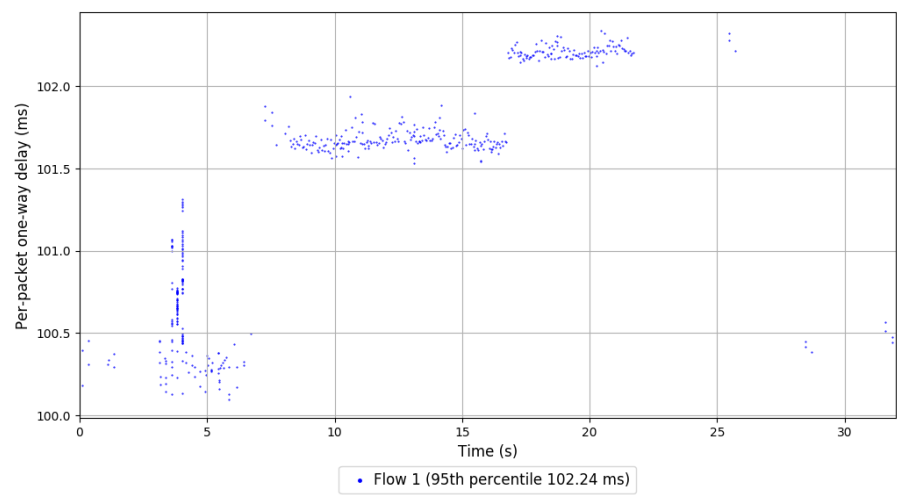
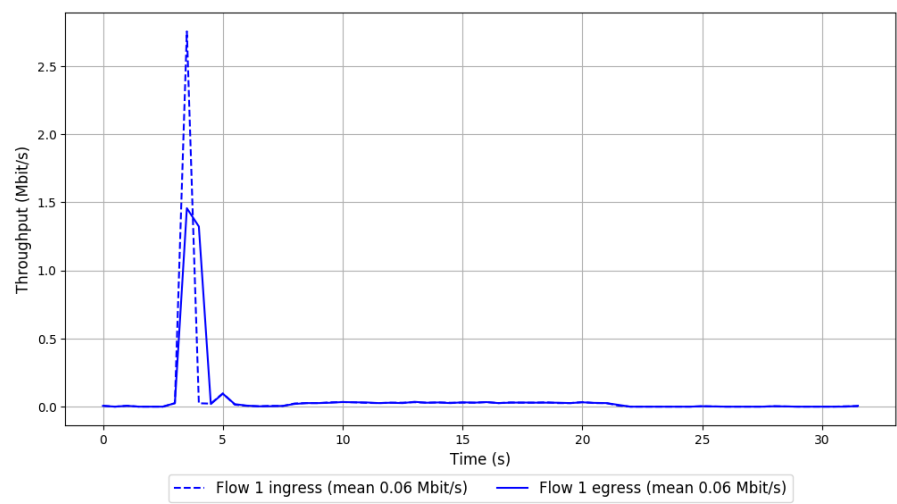
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 102.238 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-03 00:09:42

End at: 2018-04-03 00:10:12

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 93.405 ms

Loss rate: 0.00%

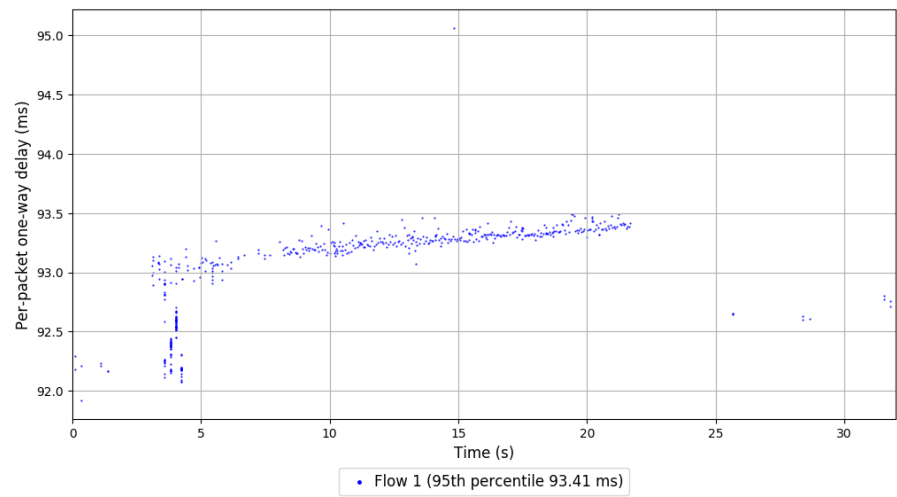
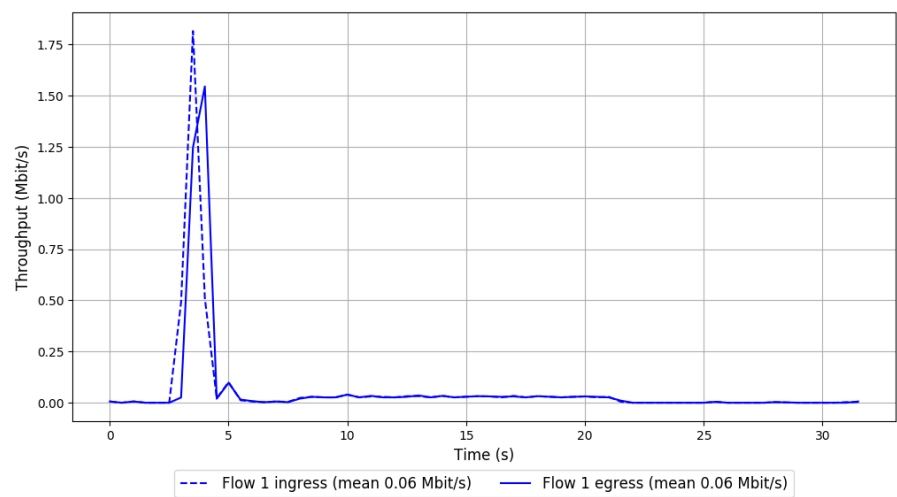
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 93.405 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-03 00:25:16

End at: 2018-04-03 00:25:46

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 94.951 ms

Loss rate: 0.00%

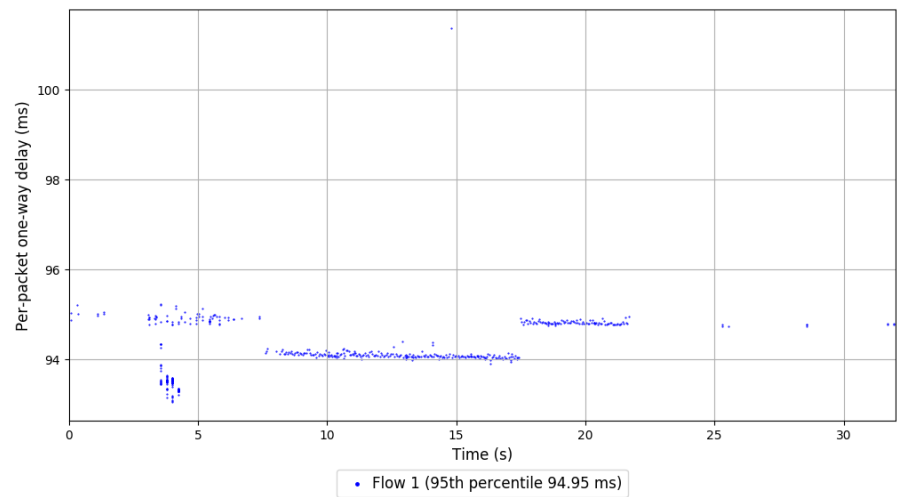
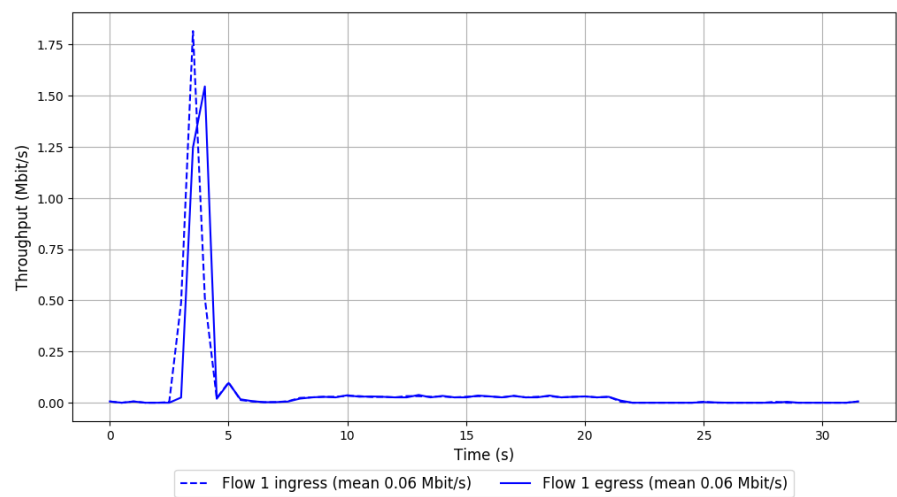
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 94.951 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-03 00:40:42

End at: 2018-04-03 00:41:12

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 83.118 ms

Loss rate: 0.00%

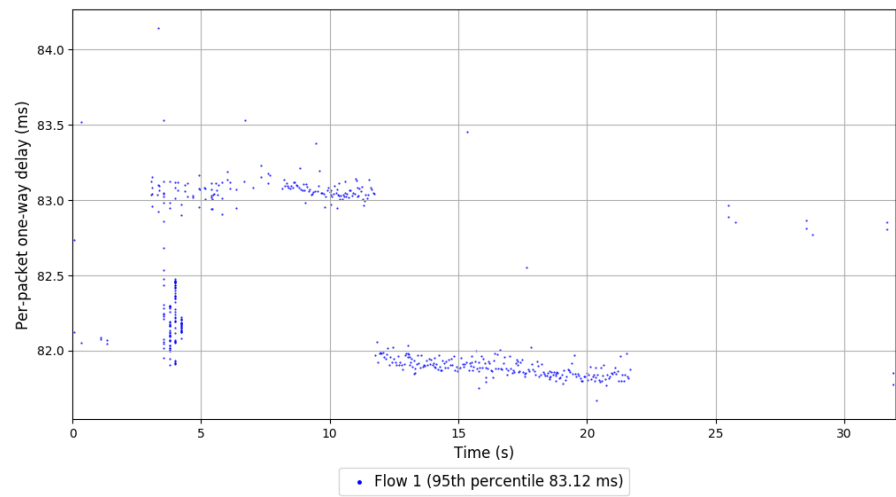
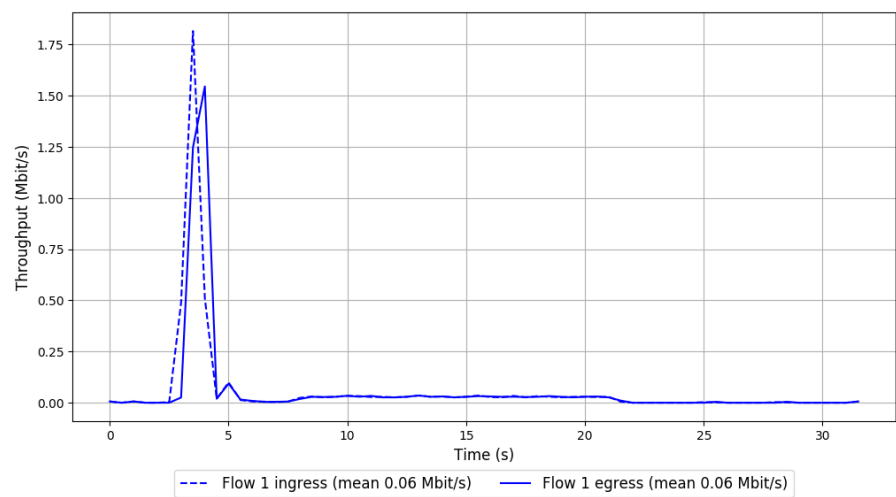
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 83.118 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-03 00:55:56

End at: 2018-04-03 00:56:26

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.744 ms

Loss rate: 0.00%

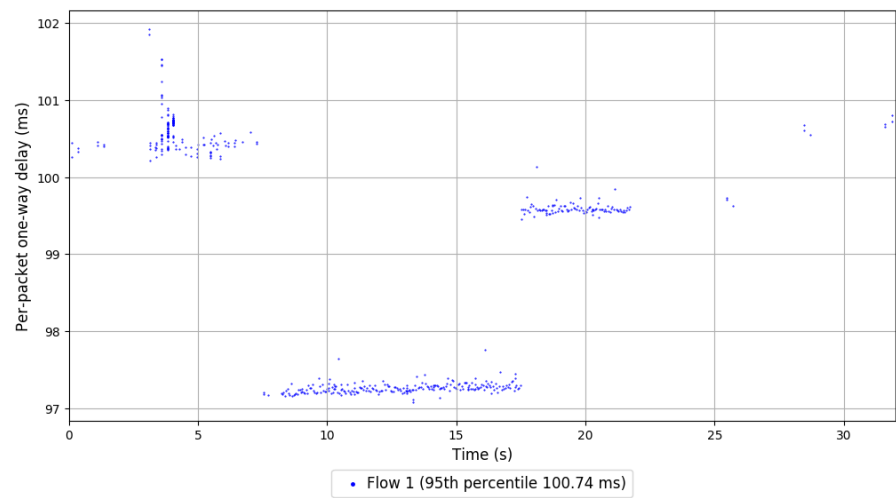
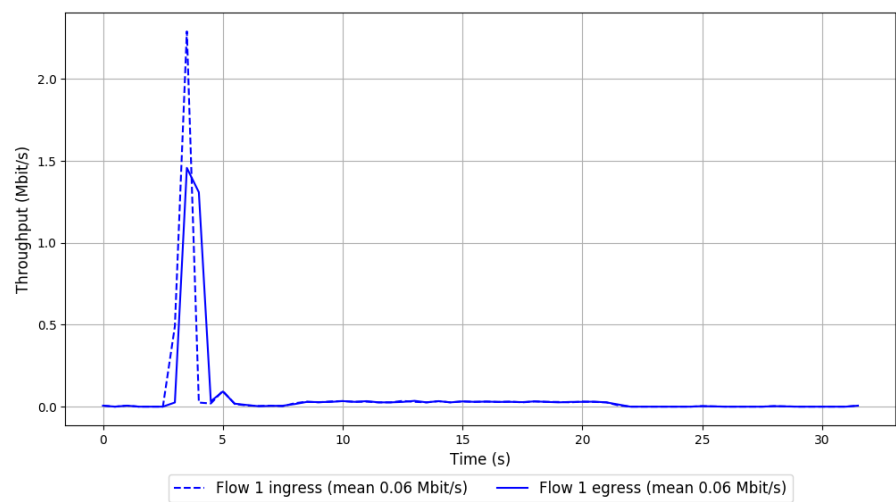
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 100.744 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-03 01:11:16

End at: 2018-04-03 01:11:46

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.372 ms

Loss rate: 0.00%

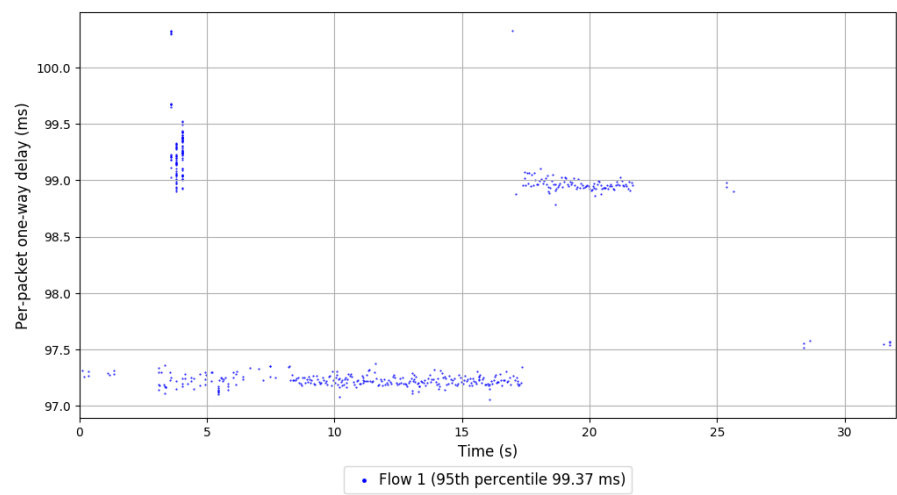
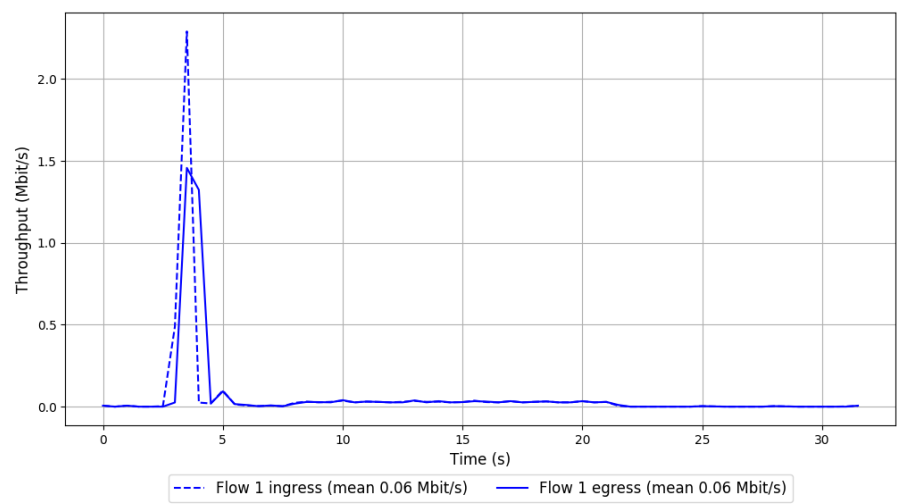
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 99.372 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-03 01:26:37

End at: 2018-04-03 01:27:07

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.469 ms

Loss rate: 0.00%

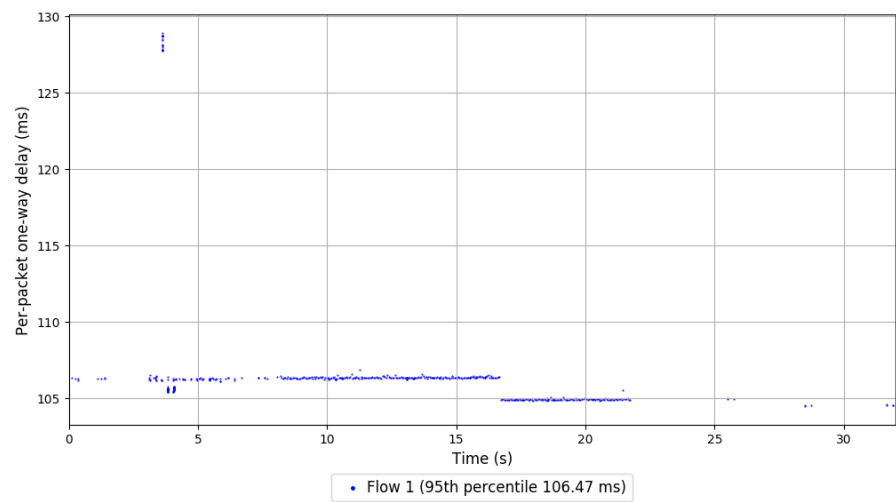
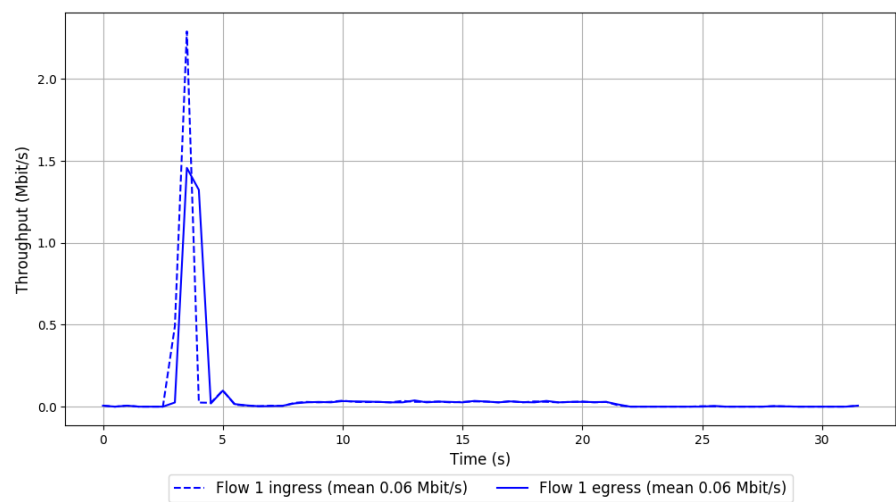
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.469 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-03 01:42:08

End at: 2018-04-03 01:42:38

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.124 ms

Loss rate: 0.00%

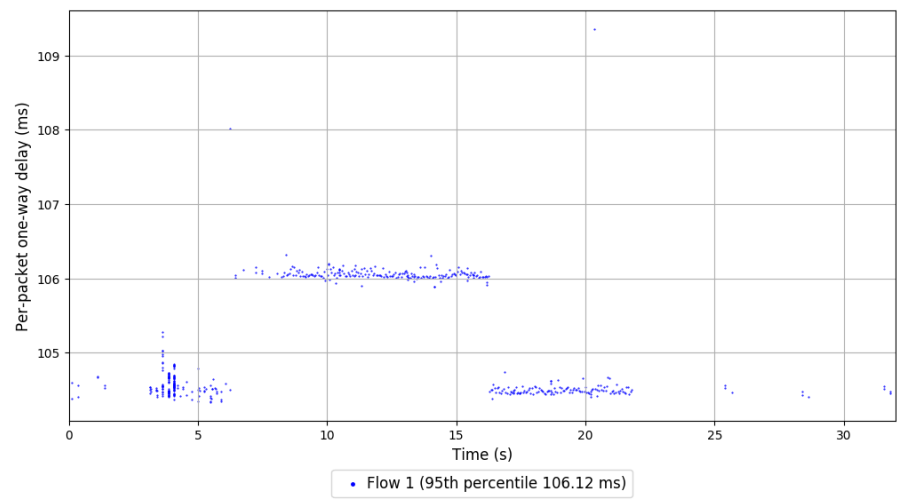
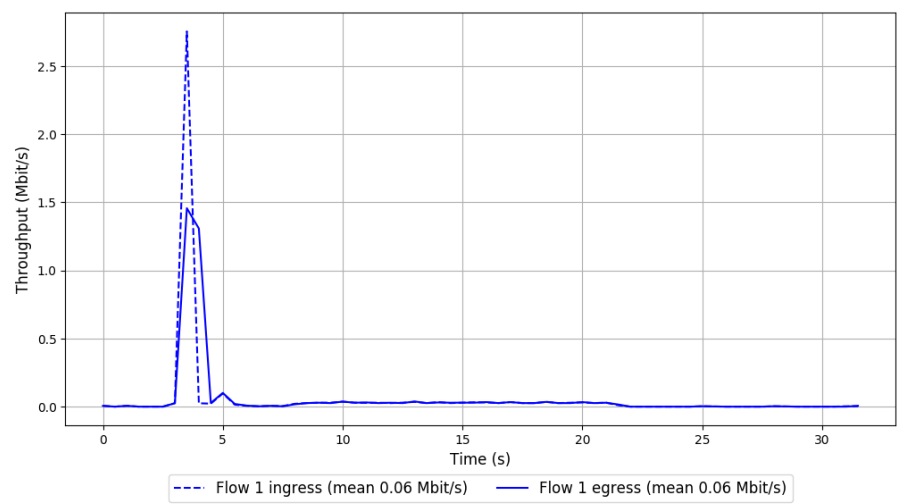
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.124 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-03 01:57:15

End at: 2018-04-03 01:57:45

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 109.142 ms

Loss rate: 0.00%

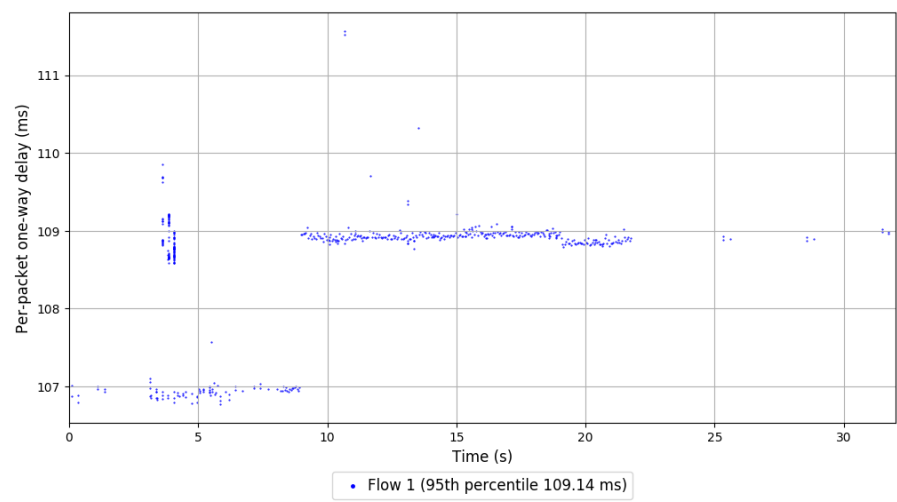
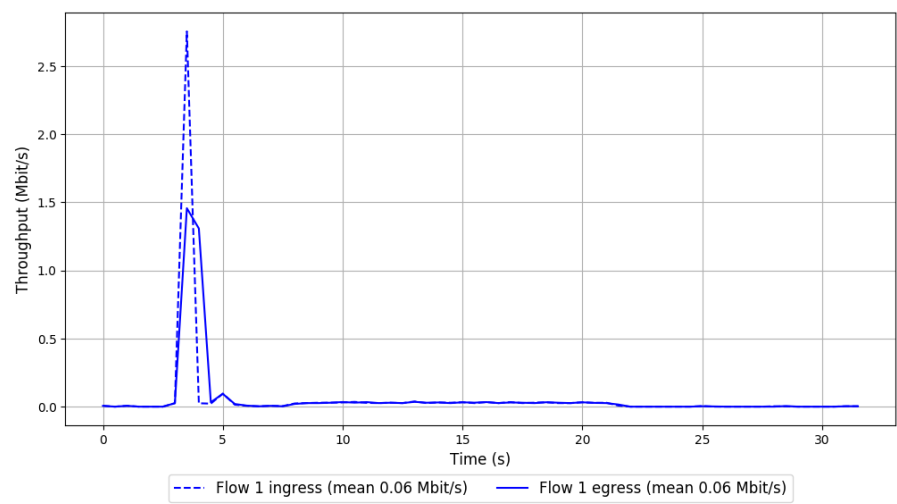
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 109.142 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-02 23:41:42

End at: 2018-04-02 23:42:12

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 104.841 ms

Loss rate: 0.95%

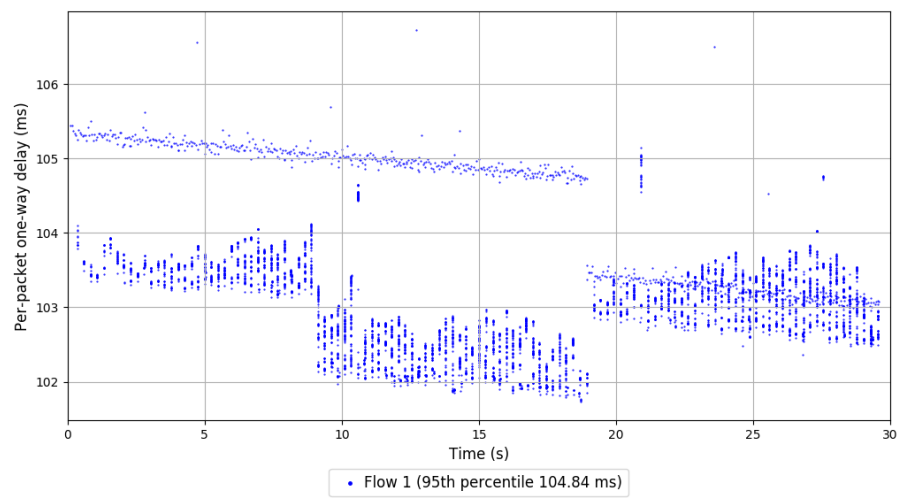
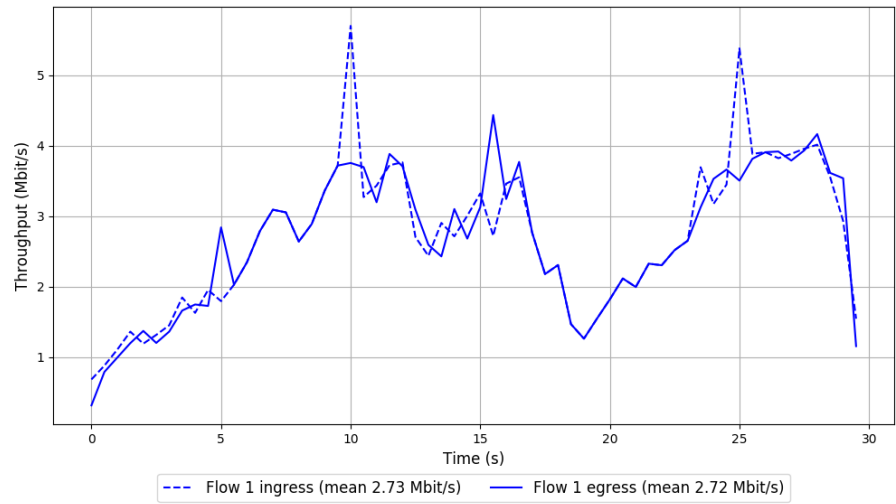
-- Flow 1:

Average throughput: 2.72 Mbit/s

95th percentile per-packet one-way delay: 104.841 ms

Loss rate: 0.95%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-02 23:57:11

End at: 2018-04-02 23:57:41

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 102.326 ms

Loss rate: 0.74%

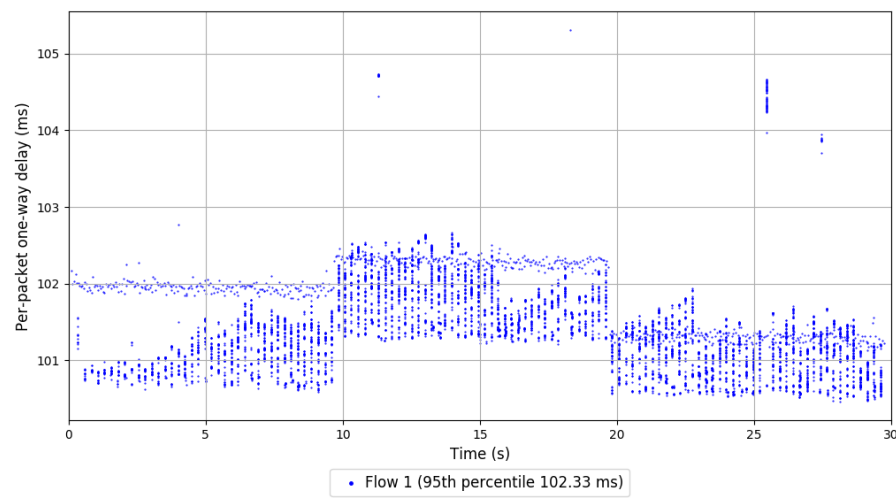
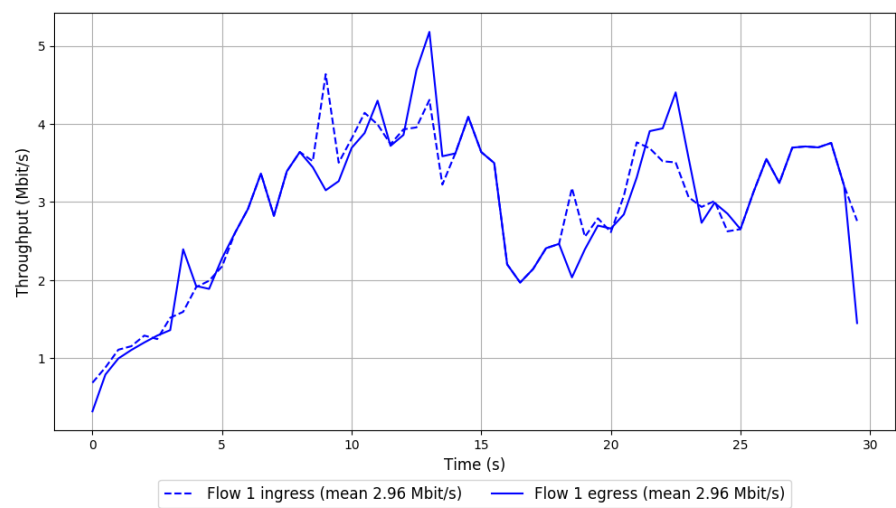
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 102.326 ms

Loss rate: 0.74%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-03 00:12:34

End at: 2018-04-03 00:13:04

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 96.104 ms

Loss rate: 0.63%

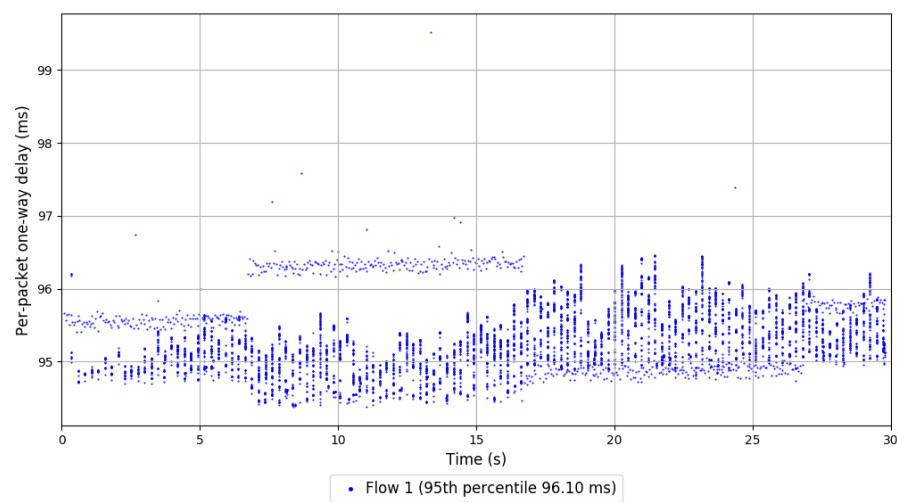
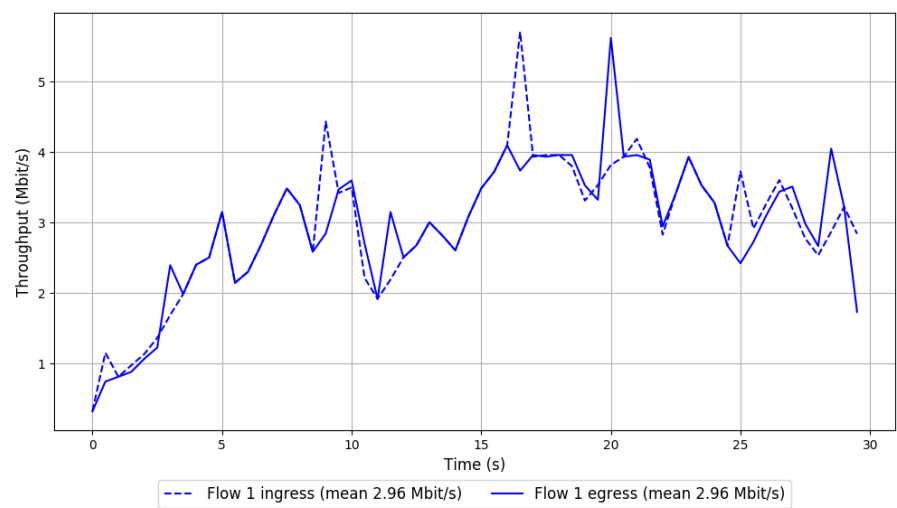
-- Flow 1:

Average throughput: 2.96 Mbit/s

95th percentile per-packet one-way delay: 96.104 ms

Loss rate: 0.63%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-03 00:28:04

End at: 2018-04-03 00:28:34

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 92.273 ms

Loss rate: 0.00%

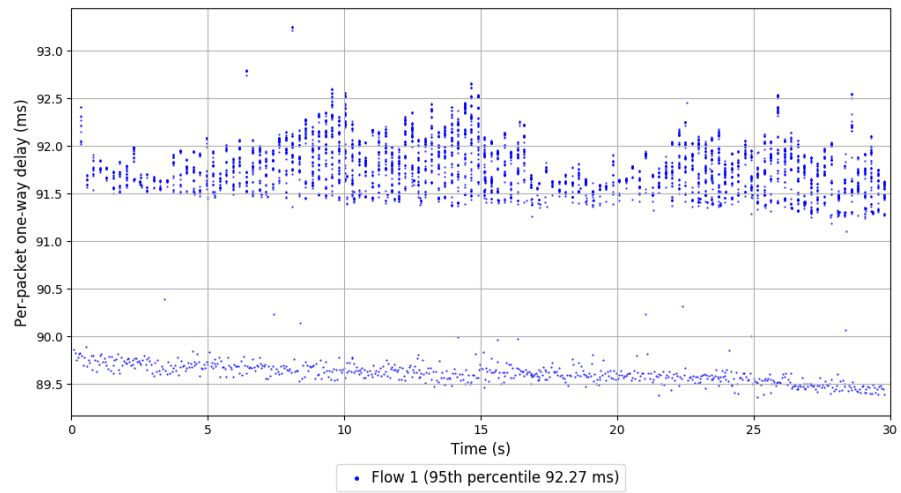
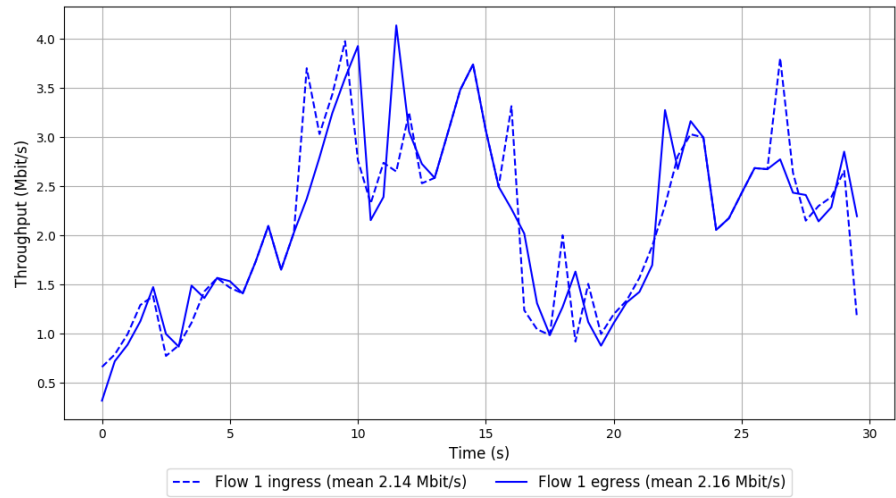
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 92.273 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-03 00:43:24

End at: 2018-04-03 00:43:54

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 87.577 ms

Loss rate: 0.85%

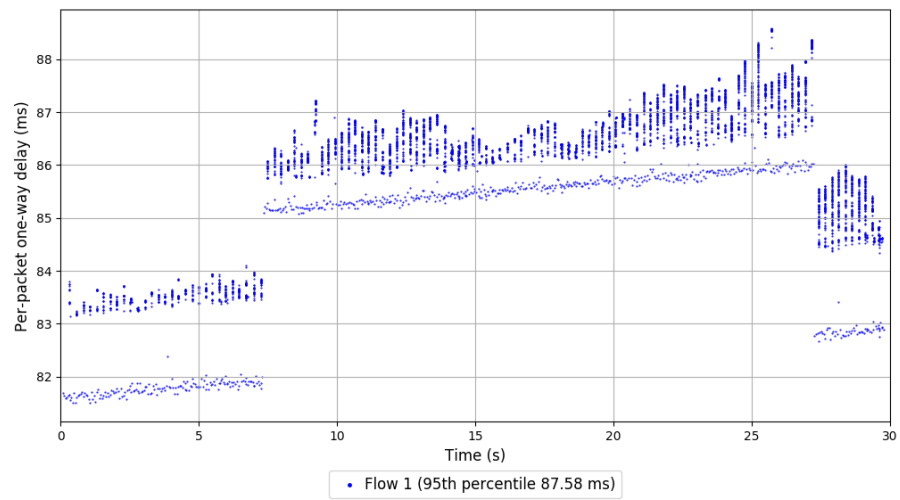
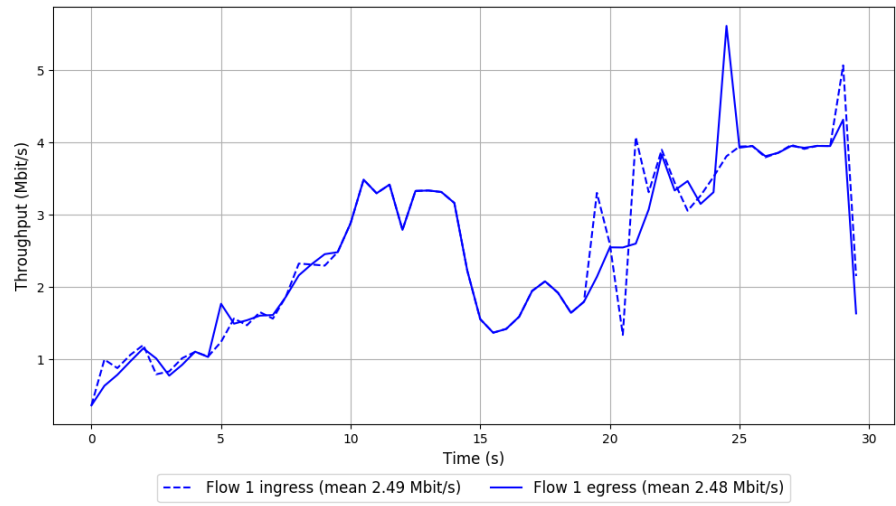
-- Flow 1:

Average throughput: 2.48 Mbit/s

95th percentile per-packet one-way delay: 87.577 ms

Loss rate: 0.85%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-03 00:58:44

End at: 2018-04-03 00:59:14

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 102.255 ms

Loss rate: 0.89%

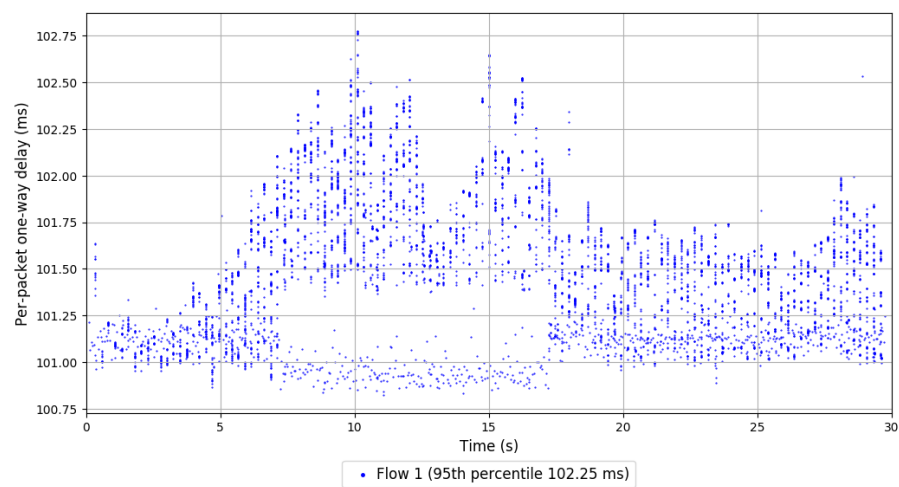
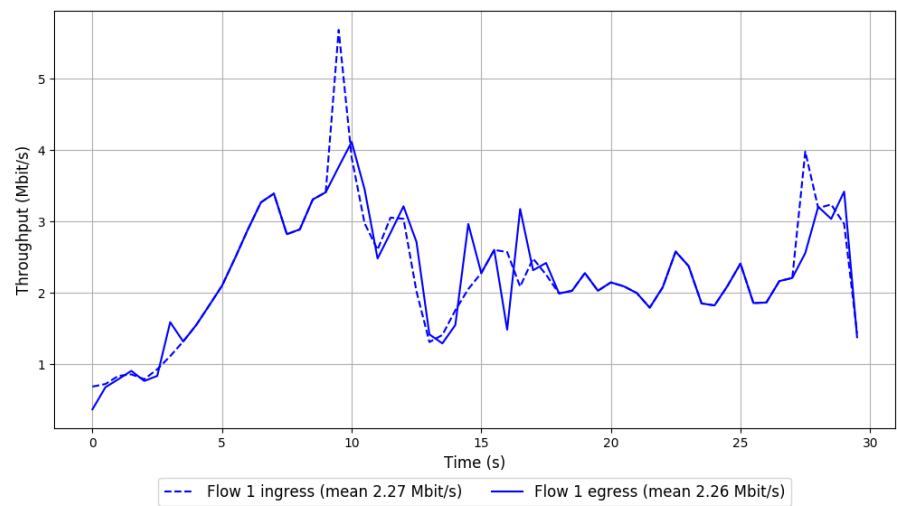
-- Flow 1:

Average throughput: 2.26 Mbit/s

95th percentile per-packet one-way delay: 102.255 ms

Loss rate: 0.89%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-04-03 01:13:55

End at: 2018-04-03 01:14:25

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 99.488 ms

Loss rate: 0.83%

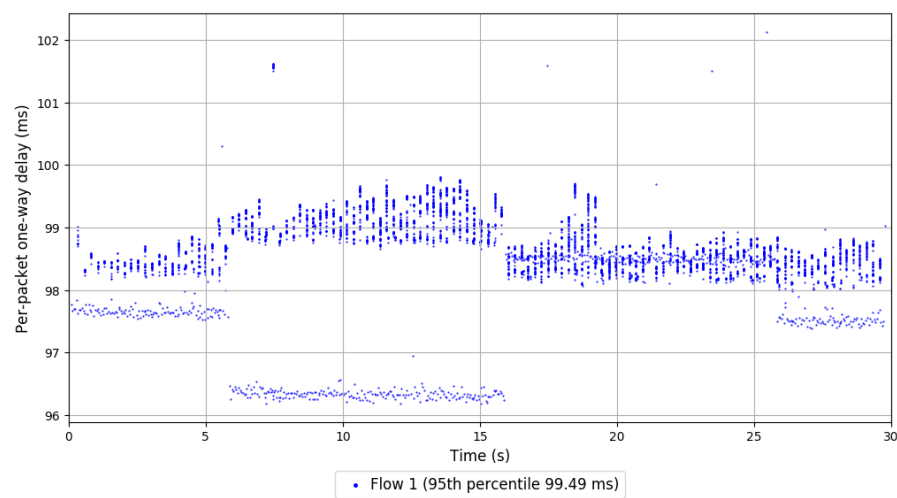
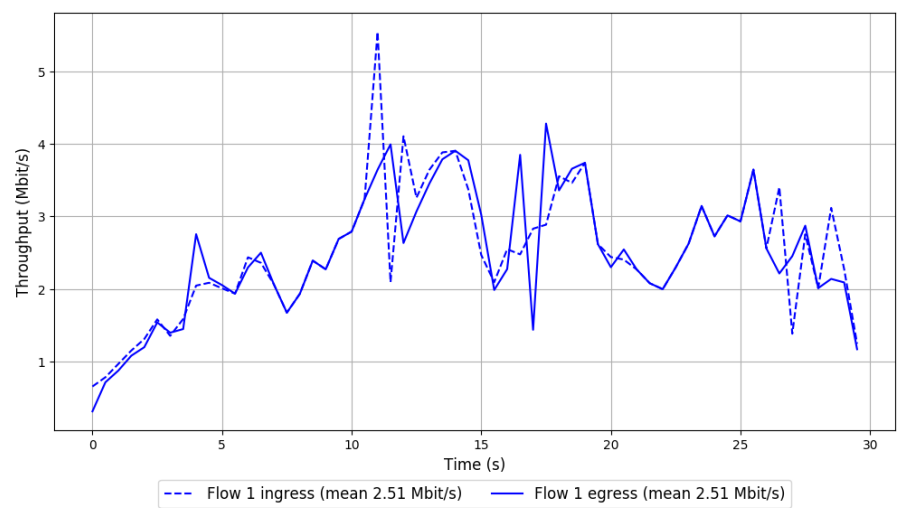
-- Flow 1:

Average throughput: 2.51 Mbit/s

95th percentile per-packet one-way delay: 99.488 ms

Loss rate: 0.83%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-03 01:29:32

End at: 2018-04-03 01:30:02

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 107.543 ms

Loss rate: 0.76%

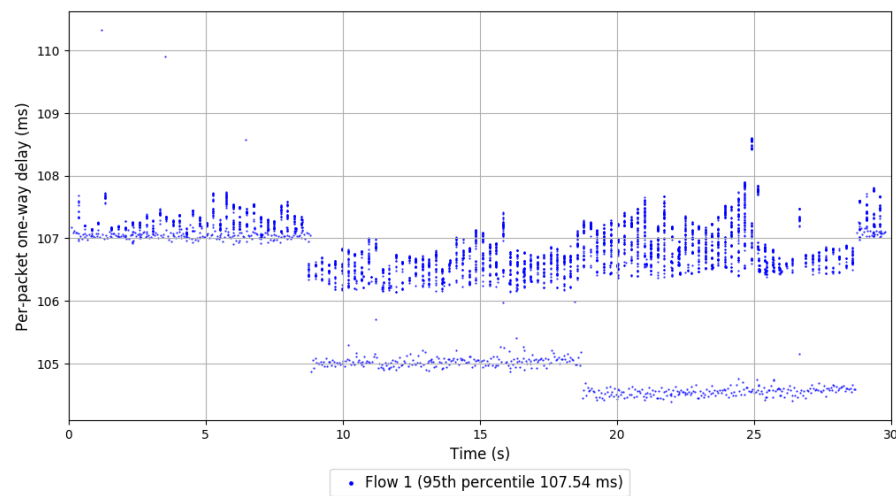
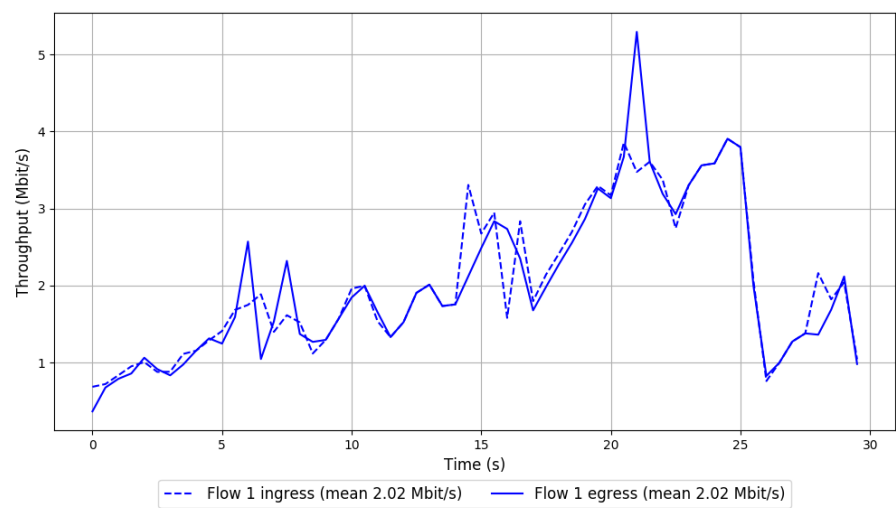
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 107.543 ms

Loss rate: 0.76%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-03 01:44:55

End at: 2018-04-03 01:45:25

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 106.720 ms

Loss rate: 0.70%

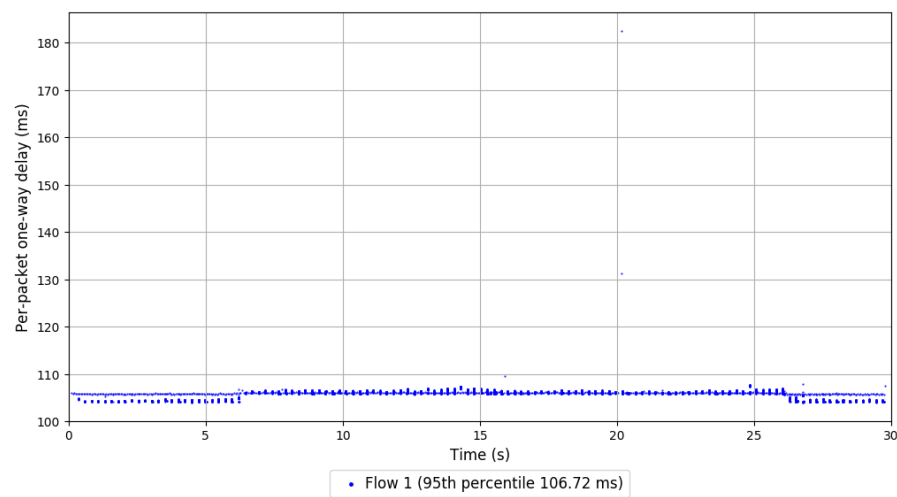
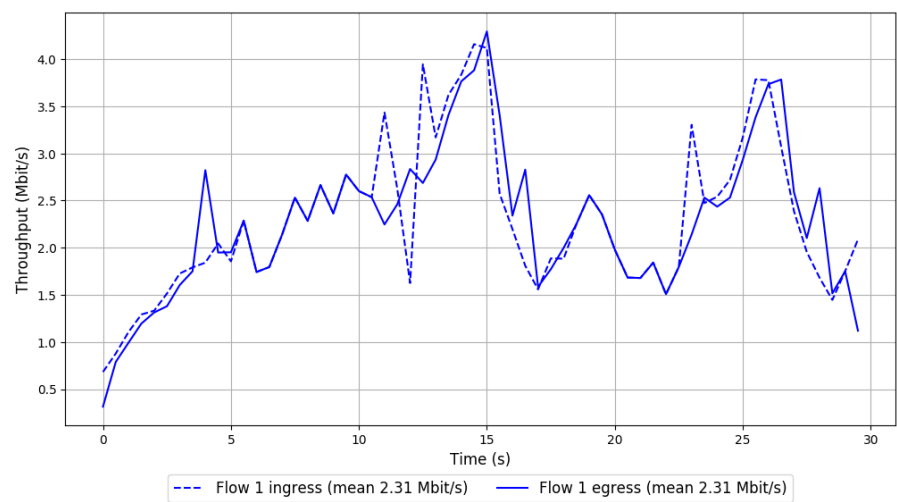
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 106.720 ms

Loss rate: 0.70%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-03 02:00:07

End at: 2018-04-03 02:00:37

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 110.902 ms

Loss rate: 0.44%

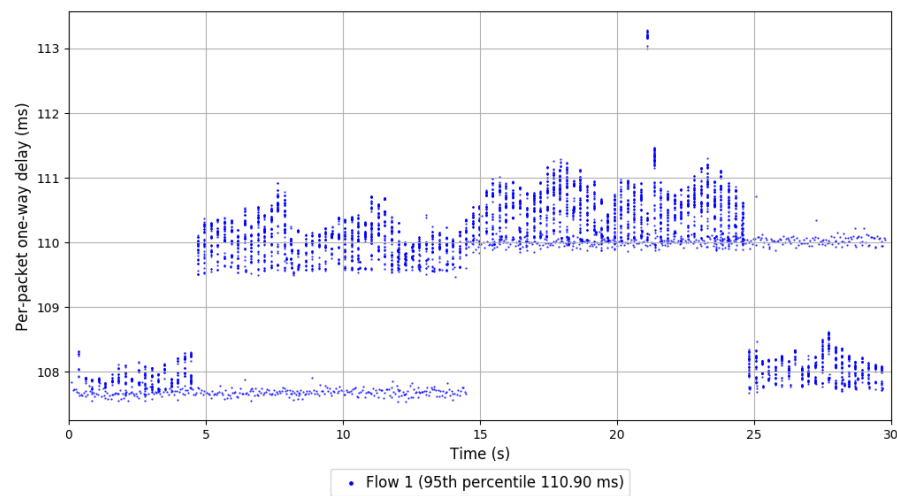
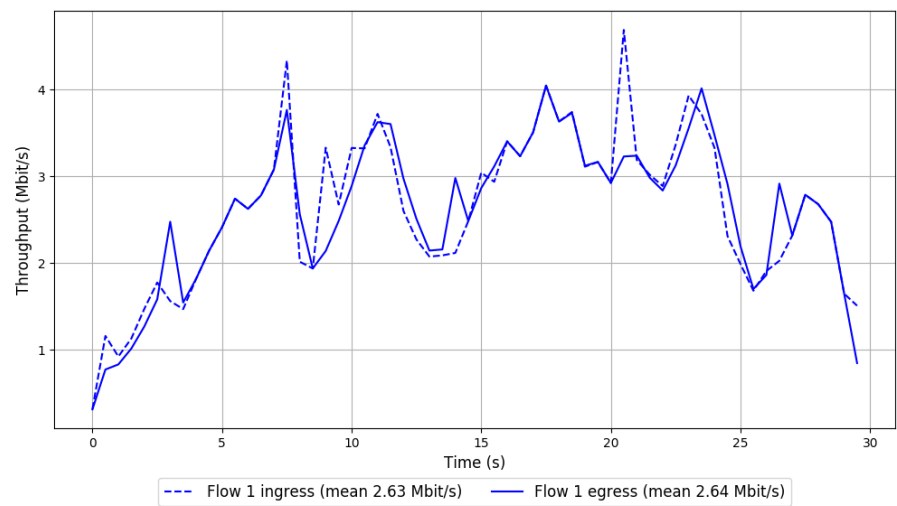
-- Flow 1:

Average throughput: 2.64 Mbit/s

95th percentile per-packet one-way delay: 110.902 ms

Loss rate: 0.44%

Run 10: Report of Sprout — Data Link

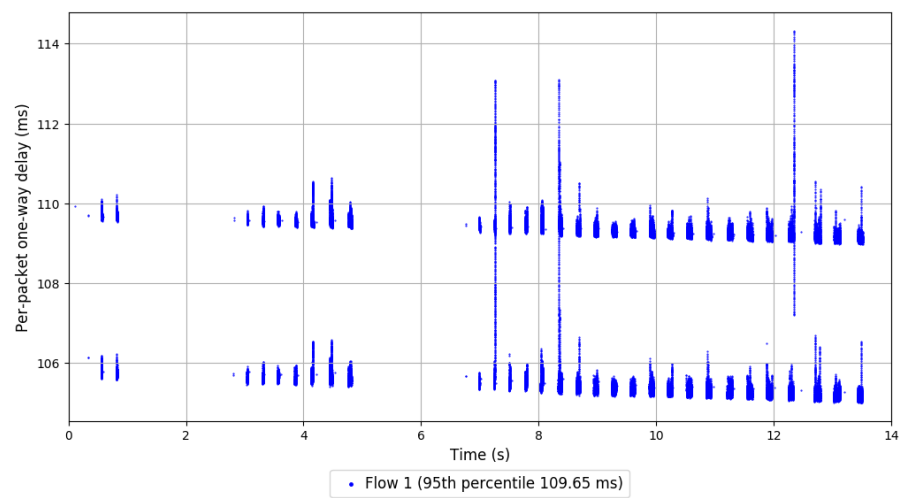
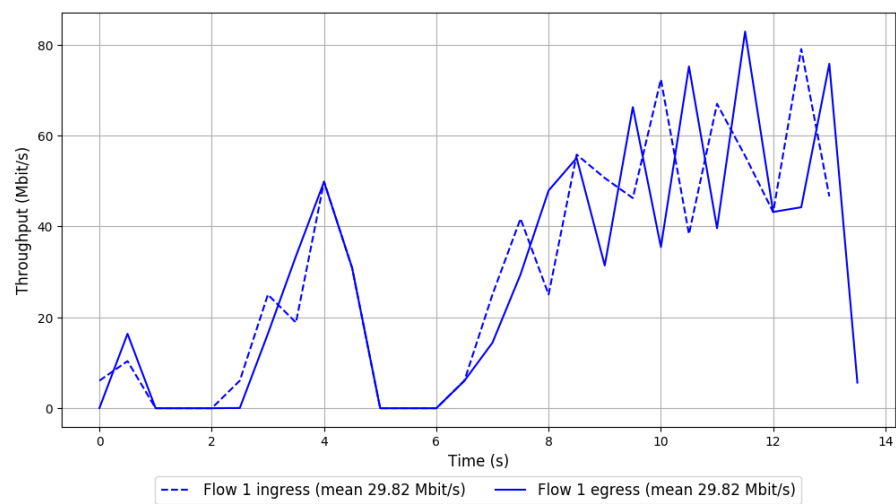


Run 1: Statistics of TaoVA-100x

Start at: 2018-04-02 23:38:06

End at: 2018-04-02 23:38:36

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

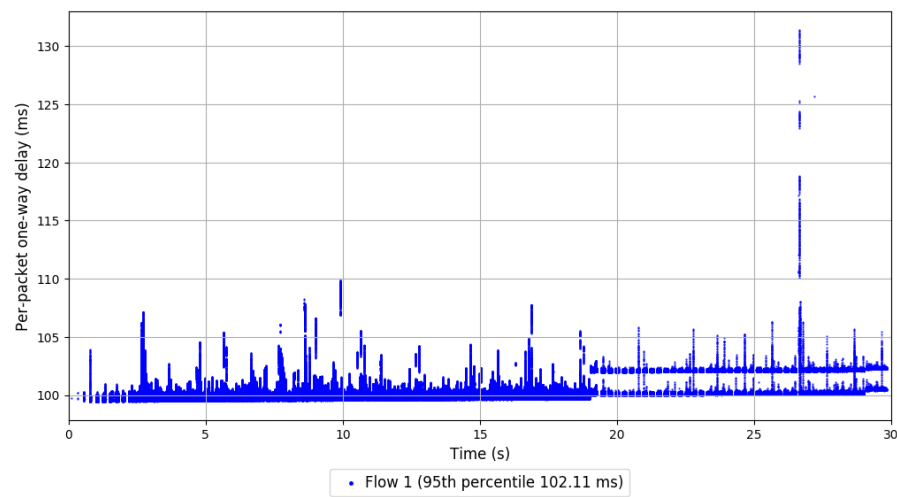
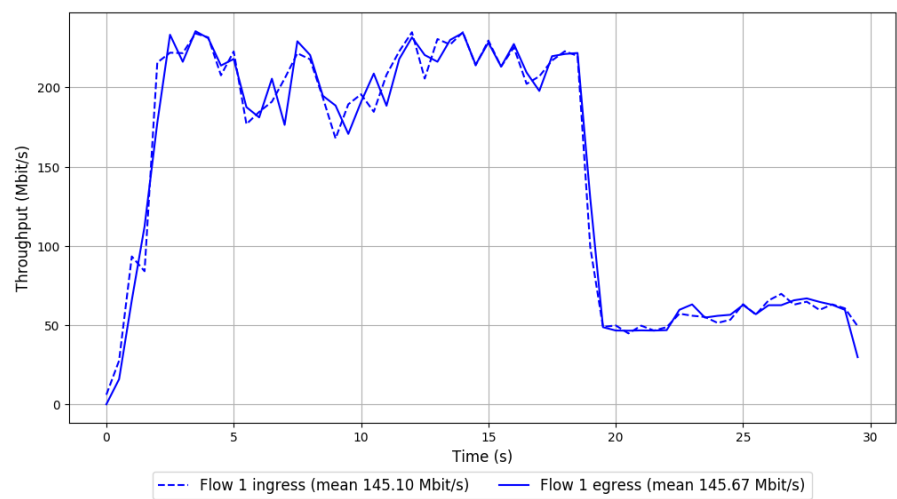


```
Run 2: Statistics of TaoVA-100x

Start at: 2018-04-02 23:53:22
End at: 2018-04-02 23:53:52

# Below is generated by plot.py at 2018-04-03 05:14:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 145.67 Mbit/s
95th percentile per-packet one-way delay: 102.113 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 145.67 Mbit/s
95th percentile per-packet one-way delay: 102.113 ms
Loss rate: 0.28%
```

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-03 00:08:59

End at: 2018-04-03 00:09:30

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 95.720 ms

Loss rate: 0.40%

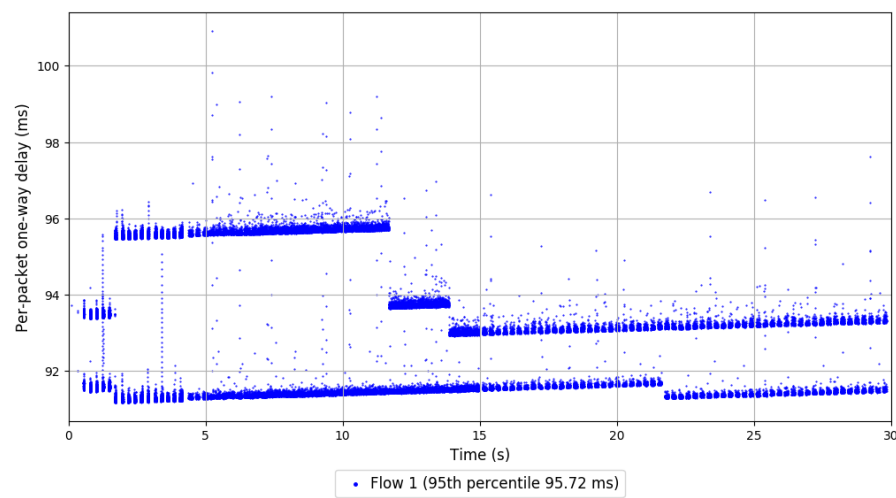
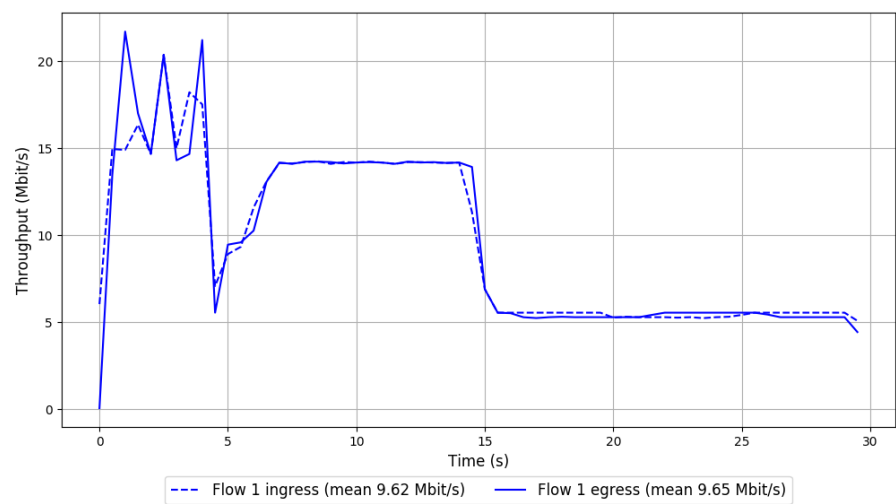
-- Flow 1:

Average throughput: 9.65 Mbit/s

95th percentile per-packet one-way delay: 95.720 ms

Loss rate: 0.40%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-03 00:24:26

End at: 2018-04-03 00:24:56

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.99 Mbit/s

95th percentile per-packet one-way delay: 95.382 ms

Loss rate: 1.29%

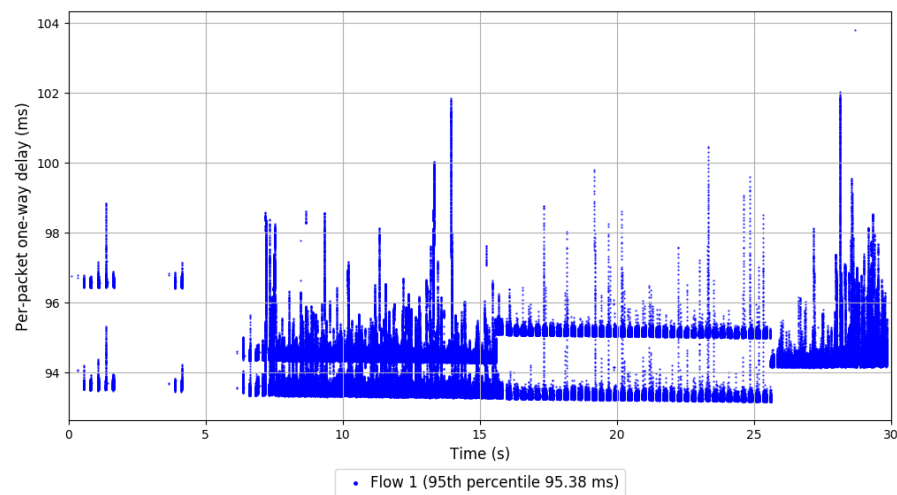
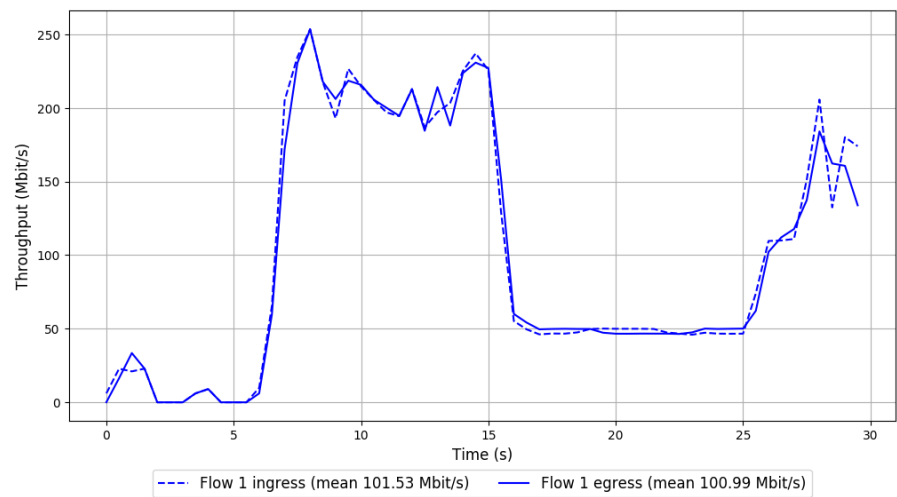
-- Flow 1:

Average throughput: 100.99 Mbit/s

95th percentile per-packet one-way delay: 95.382 ms

Loss rate: 1.29%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-03 00:39:55

End at: 2018-04-03 00:40:25

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 84.848 ms

Loss rate: 1.51%

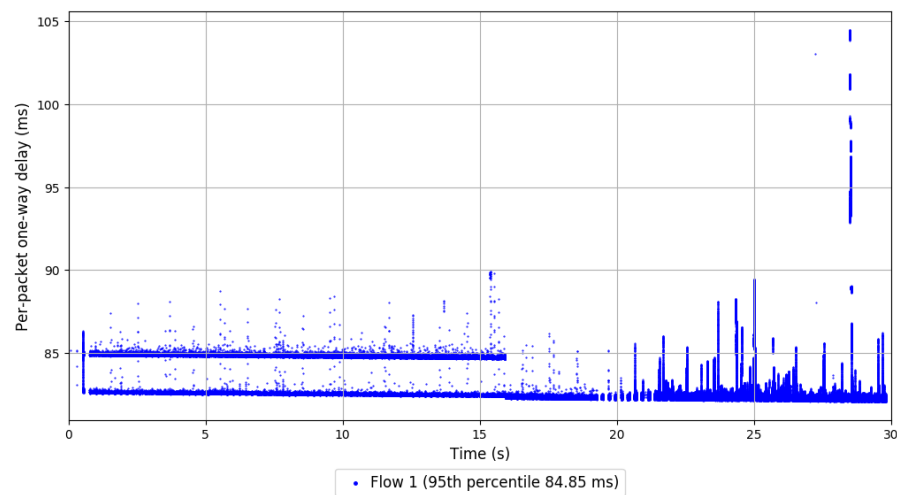
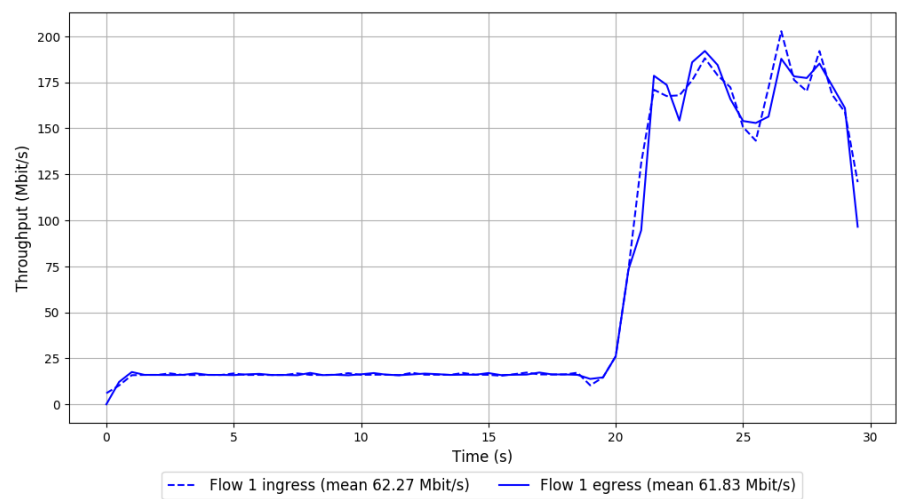
-- Flow 1:

Average throughput: 61.83 Mbit/s

95th percentile per-packet one-way delay: 84.848 ms

Loss rate: 1.51%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-03 00:55:13

End at: 2018-04-03 00:55:44

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 100.338 ms

Loss rate: 1.43%

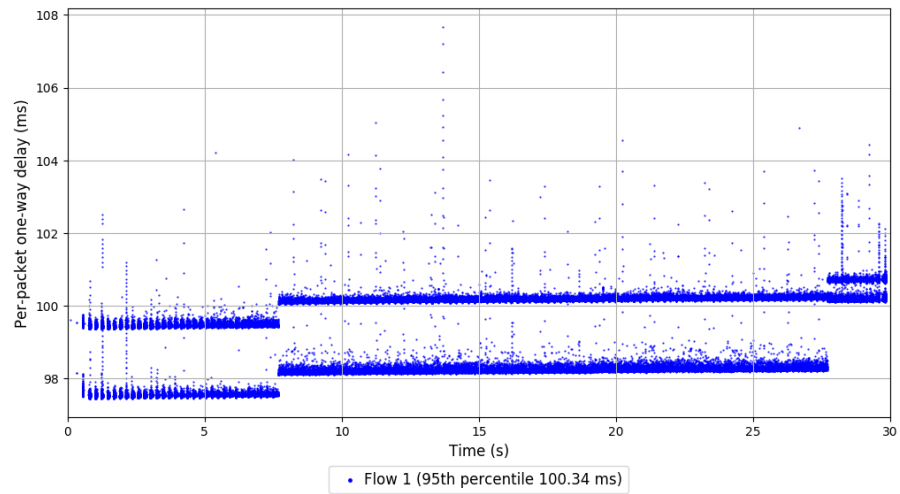
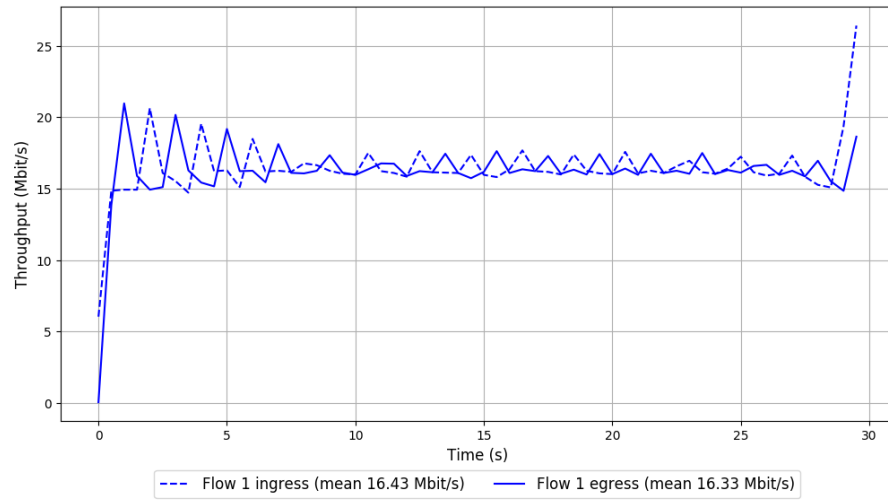
-- Flow 1:

Average throughput: 16.33 Mbit/s

95th percentile per-packet one-way delay: 100.338 ms

Loss rate: 1.43%

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

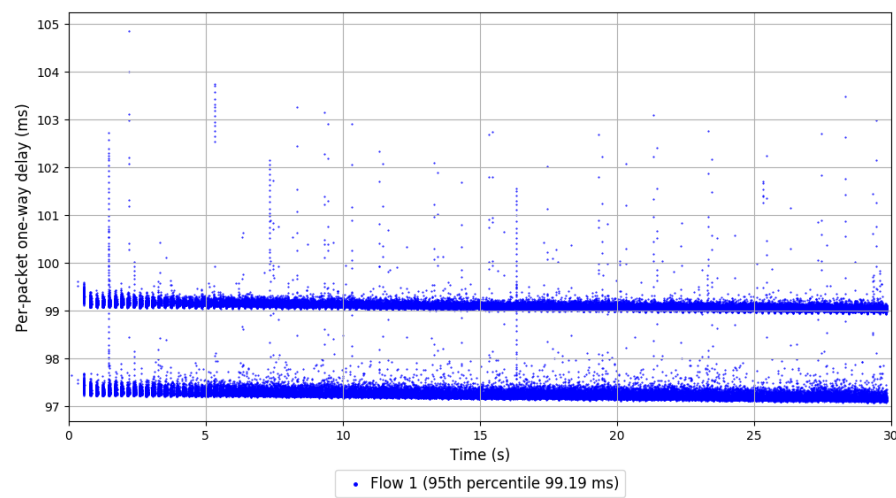
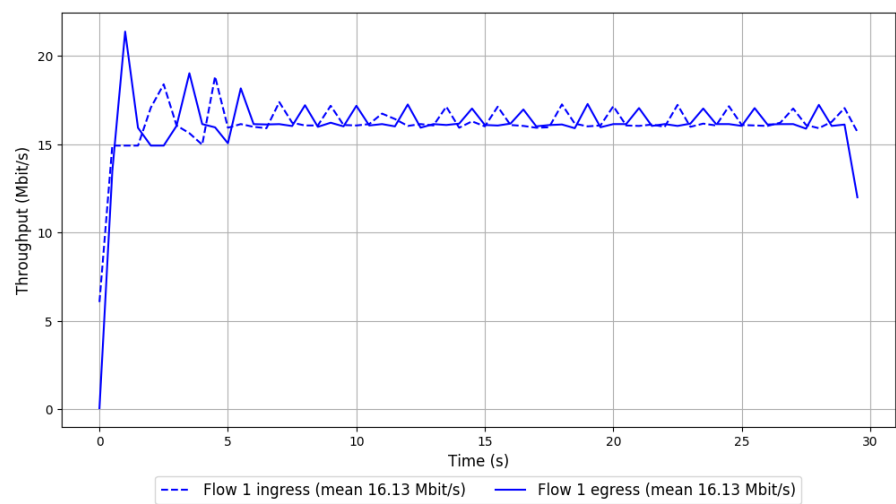


```
Run 7: Statistics of TaoVA-100x

Start at: 2018-04-03 01:10:33
End at: 2018-04-03 01:11:03

# Below is generated by plot.py at 2018-04-03 05:14:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 16.13 Mbit/s
95th percentile per-packet one-way delay: 99.194 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 16.13 Mbit/s
95th percentile per-packet one-way delay: 99.194 ms
Loss rate: 0.77%
```

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-03 01:25:47

End at: 2018-04-03 01:26:17

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 105.636 ms

Loss rate: 0.47%

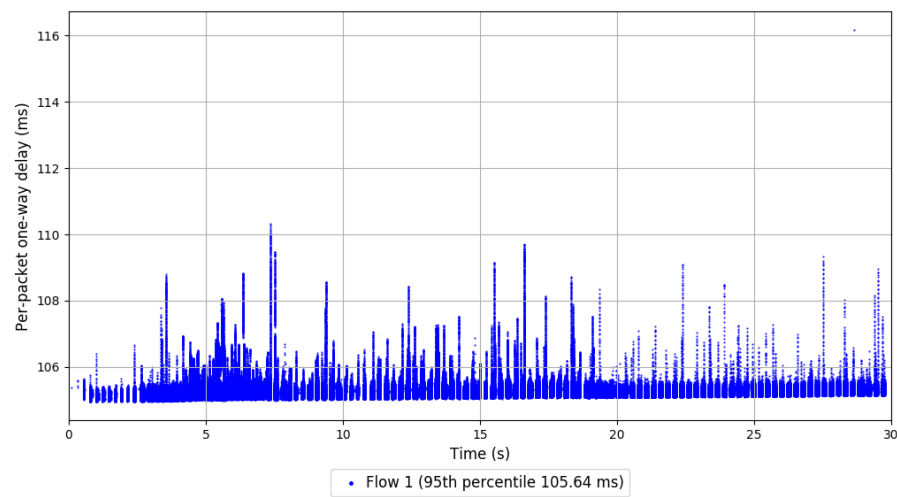
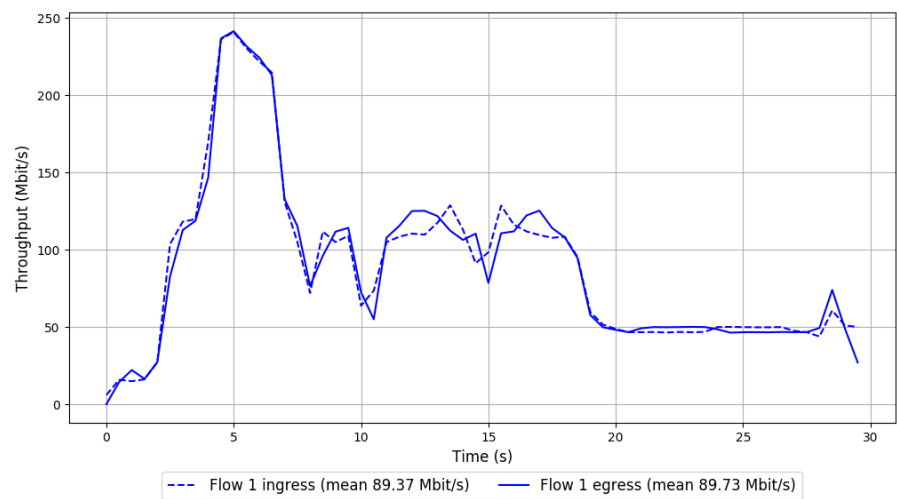
-- Flow 1:

Average throughput: 89.73 Mbit/s

95th percentile per-packet one-way delay: 105.636 ms

Loss rate: 0.47%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-03 01:41:23

End at: 2018-04-03 01:41:53

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 106.160 ms

Loss rate: 0.95%

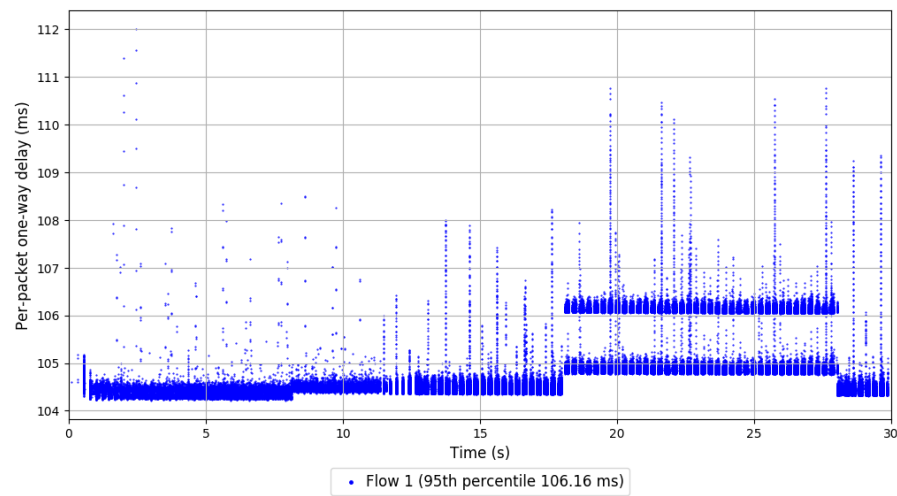
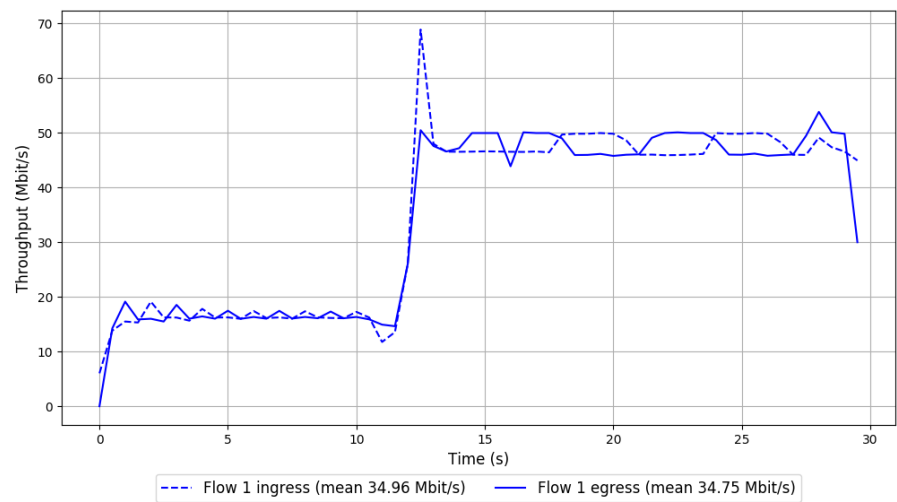
-- Flow 1:

Average throughput: 34.75 Mbit/s

95th percentile per-packet one-way delay: 106.160 ms

Loss rate: 0.95%

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

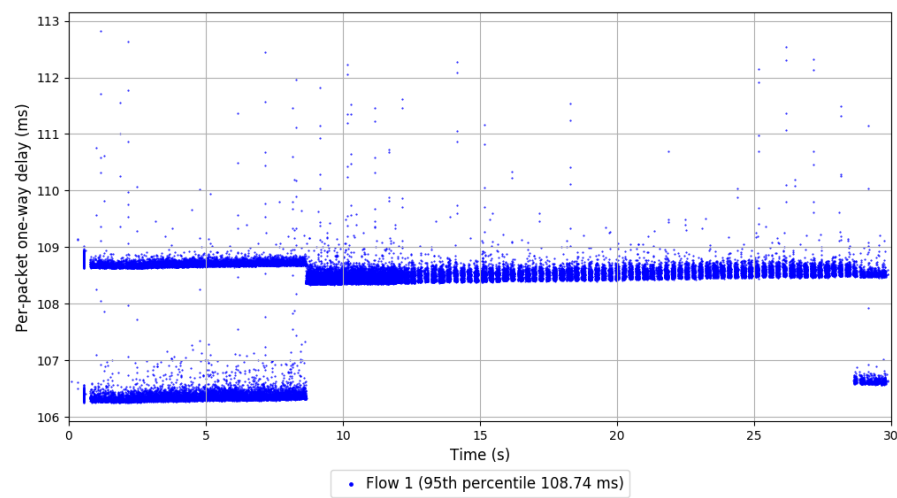
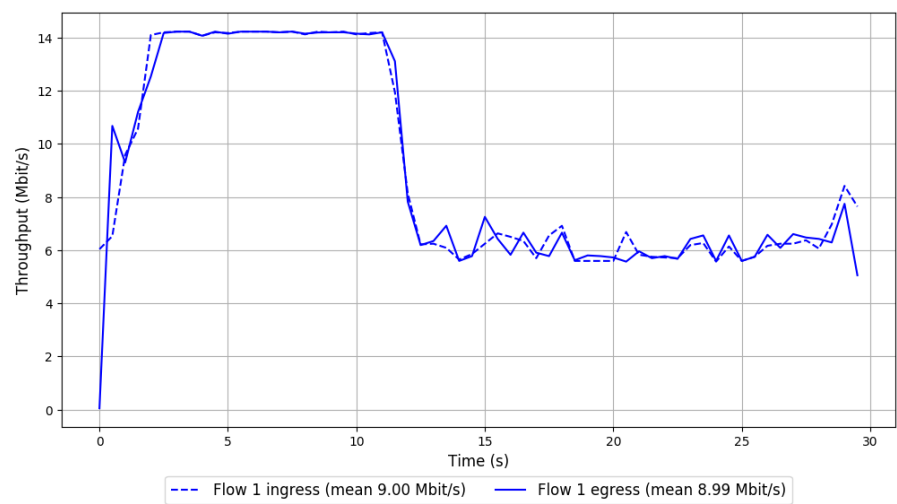


```
Run 10: Statistics of TaoVA-100x

Start at: 2018-04-03 01:56:33
End at: 2018-04-03 01:57:03

# Below is generated by plot.py at 2018-04-03 05:14:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 108.744 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 108.744 ms
Loss rate: 0.79%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-02 23:48:12

End at: 2018-04-02 23:48:42

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 104.343 ms

Loss rate: 0.79%

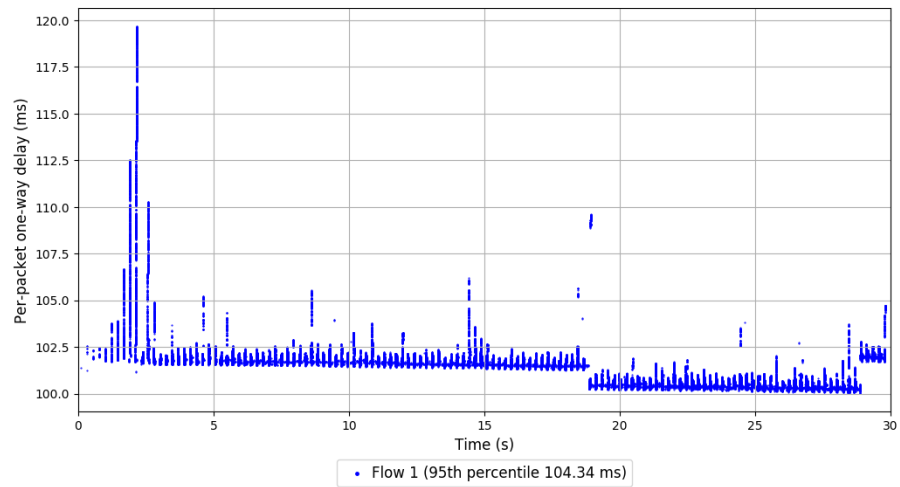
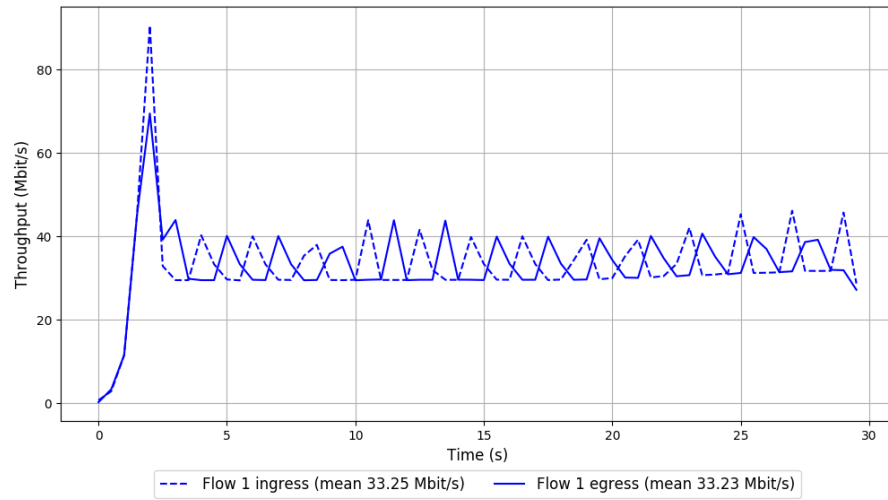
-- Flow 1:

Average throughput: 33.23 Mbit/s

95th percentile per-packet one-way delay: 104.343 ms

Loss rate: 0.79%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-03 00:03:50

End at: 2018-04-03 00:04:20

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 97.795 ms

Loss rate: 0.83%

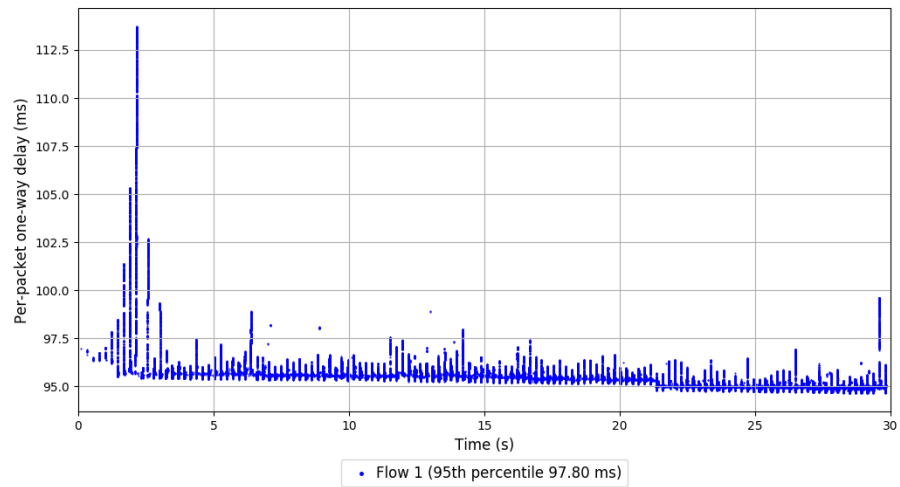
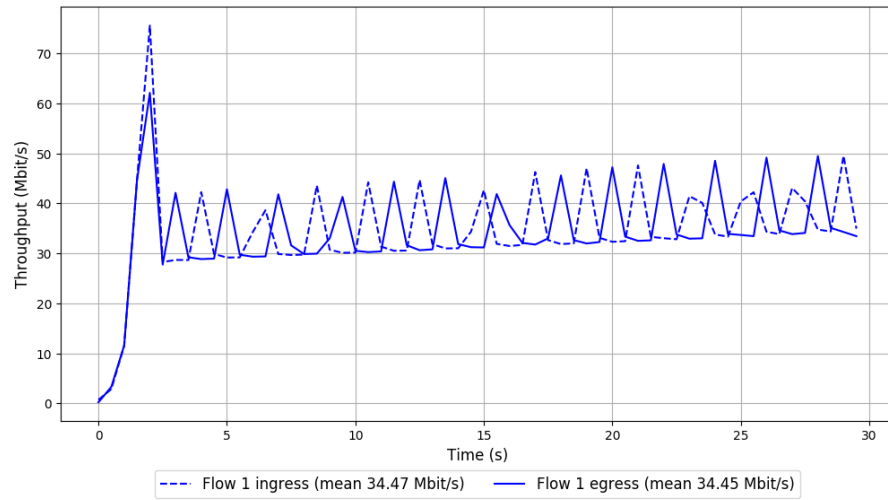
-- Flow 1:

Average throughput: 34.45 Mbit/s

95th percentile per-packet one-way delay: 97.795 ms

Loss rate: 0.83%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-03 00:19:10

End at: 2018-04-03 00:19:40

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 106.492 ms

Loss rate: 0.54%

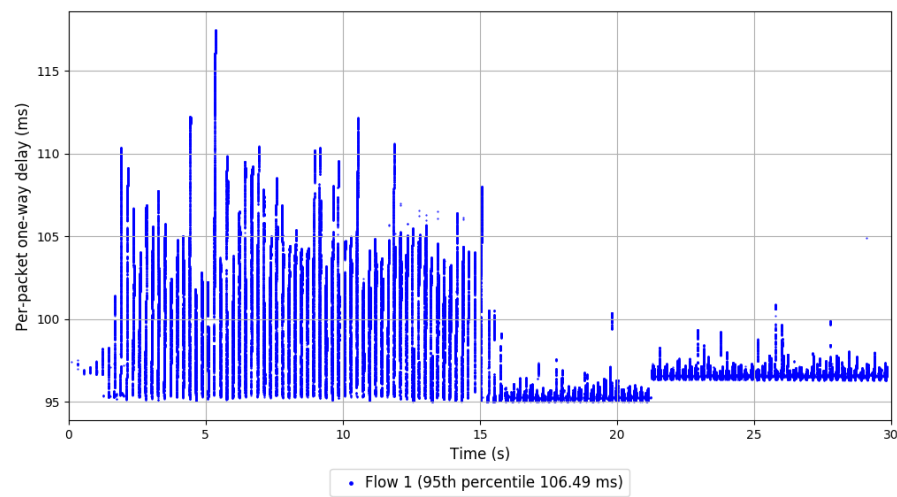
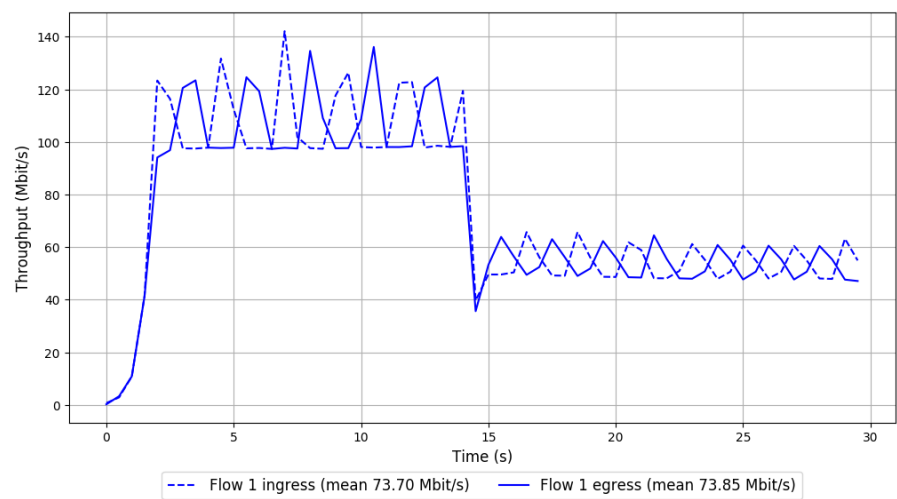
-- Flow 1:

Average throughput: 73.85 Mbit/s

95th percentile per-packet one-way delay: 106.492 ms

Loss rate: 0.54%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-03 00:34:37

End at: 2018-04-03 00:35:07

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 95.496 ms

Loss rate: 0.44%

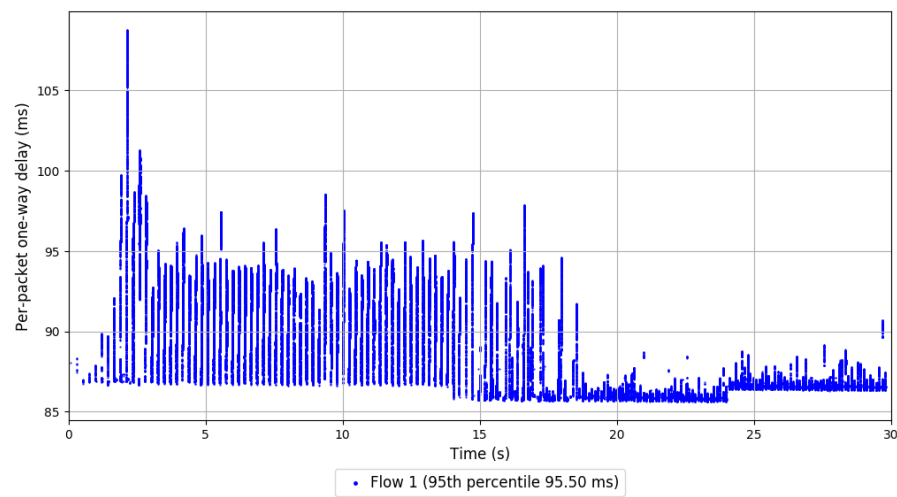
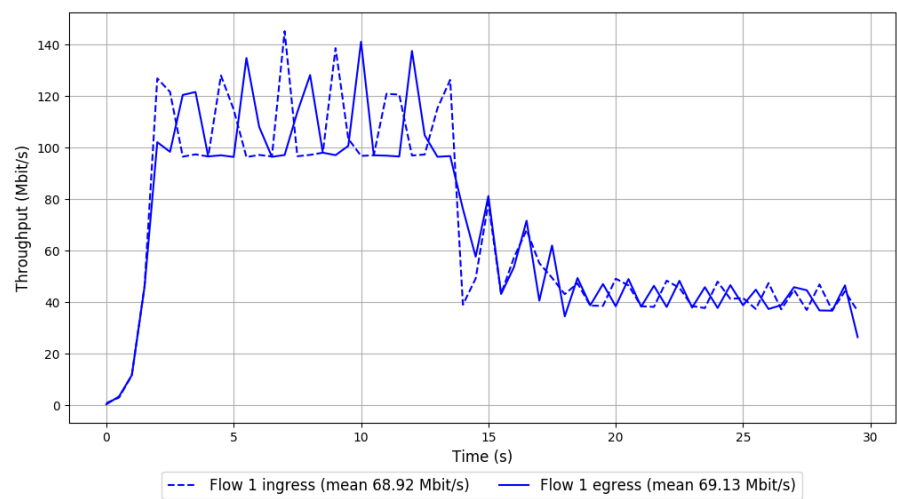
-- Flow 1:

Average throughput: 69.13 Mbit/s

95th percentile per-packet one-way delay: 95.496 ms

Loss rate: 0.44%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-03 00:49:59

End at: 2018-04-03 00:50:29

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 98.877 ms

Loss rate: 0.76%

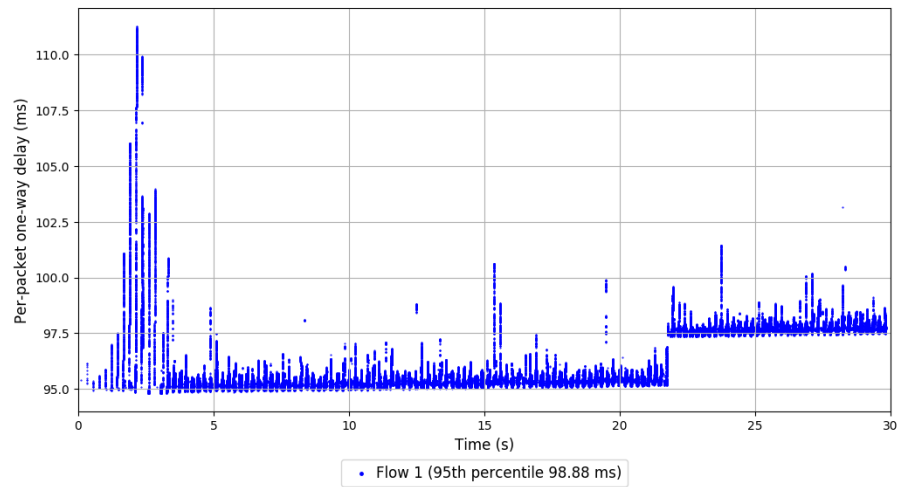
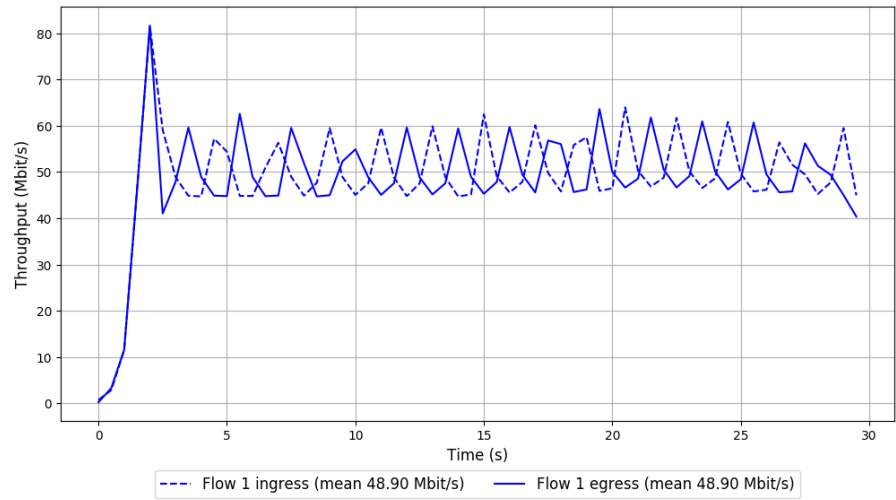
-- Flow 1:

Average throughput: 48.90 Mbit/s

95th percentile per-packet one-way delay: 98.877 ms

Loss rate: 0.76%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-03 01:05:22

End at: 2018-04-03 01:05:52

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.84 Mbit/s

95th percentile per-packet one-way delay: 109.517 ms

Loss rate: 0.79%

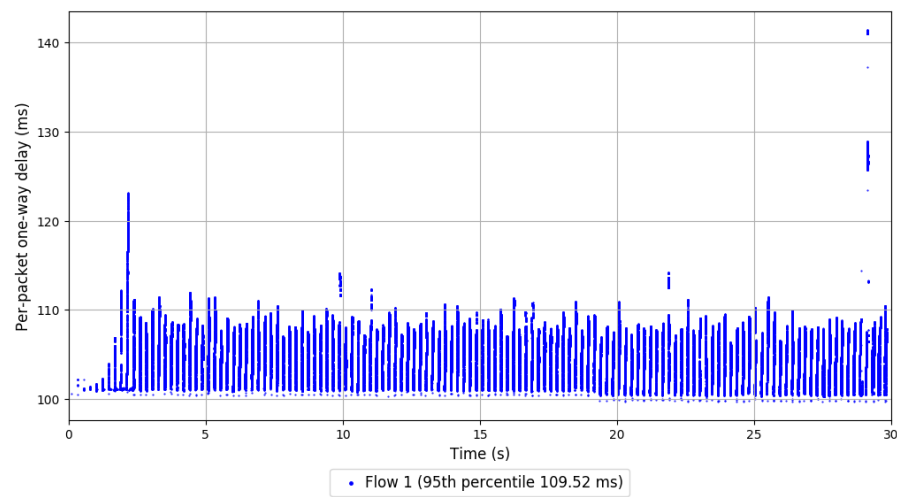
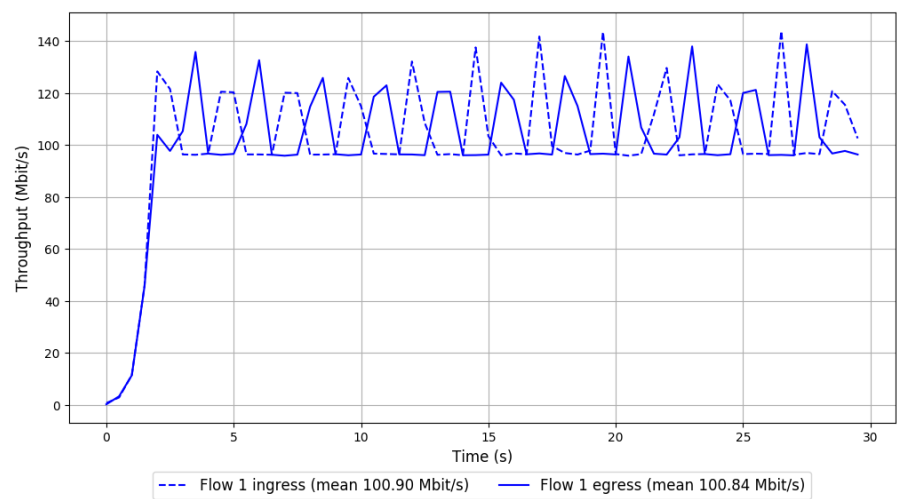
-- Flow 1:

Average throughput: 100.84 Mbit/s

95th percentile per-packet one-way delay: 109.517 ms

Loss rate: 0.79%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-03 01:20:29

End at: 2018-04-03 01:20:59

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.35 Mbit/s

95th percentile per-packet one-way delay: 111.059 ms

Loss rate: 0.35%

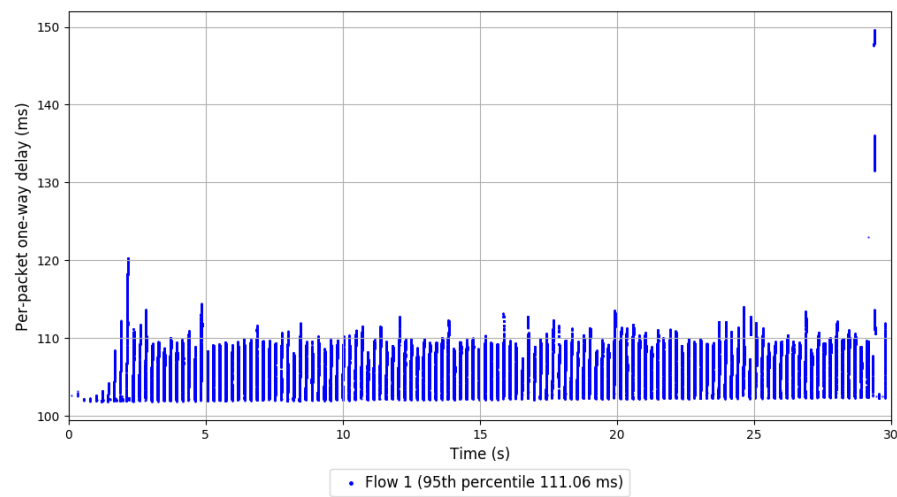
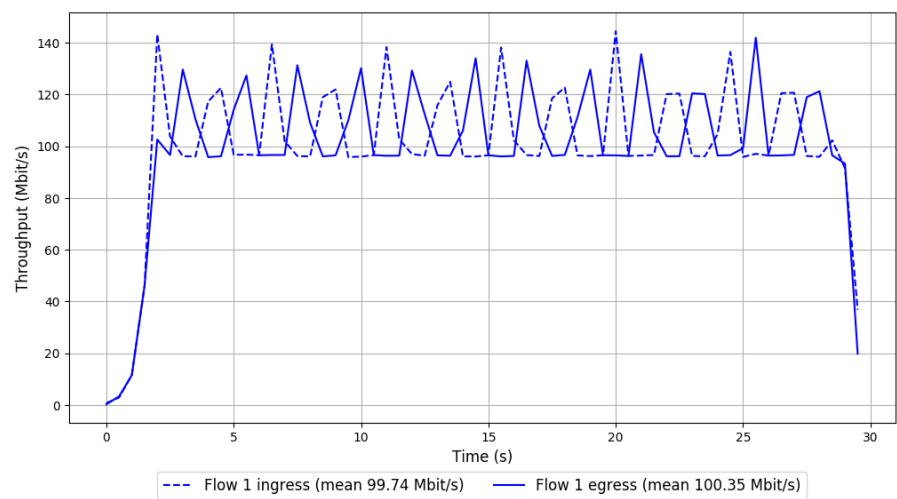
-- Flow 1:

Average throughput: 100.35 Mbit/s

95th percentile per-packet one-way delay: 111.059 ms

Loss rate: 0.35%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-03 01:36:03

End at: 2018-04-03 01:36:33

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 115.994 ms

Loss rate: 0.79%

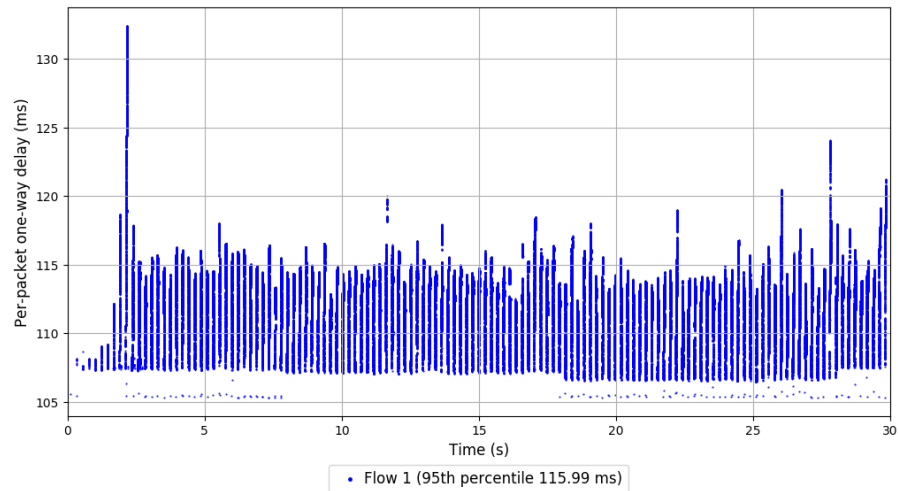
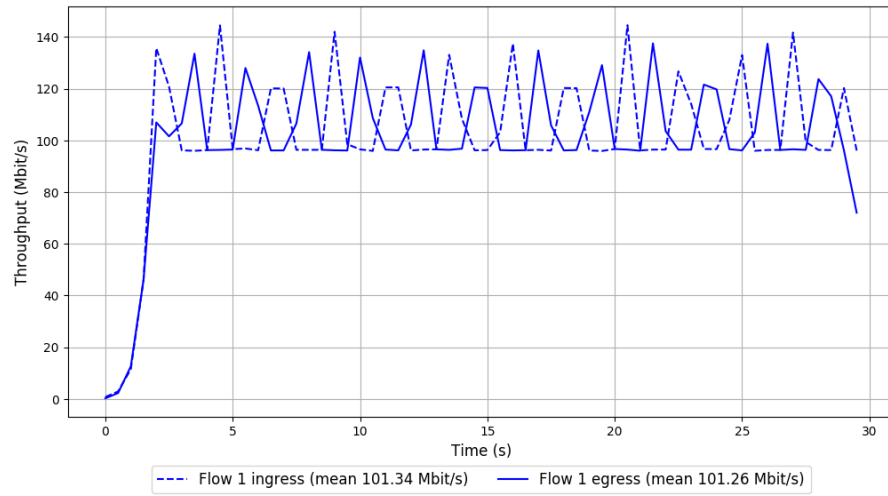
-- Flow 1:

Average throughput: 101.26 Mbit/s

95th percentile per-packet one-way delay: 115.994 ms

Loss rate: 0.79%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-03 01:51:23

End at: 2018-04-03 01:51:53

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 107.456 ms

Loss rate: 0.77%

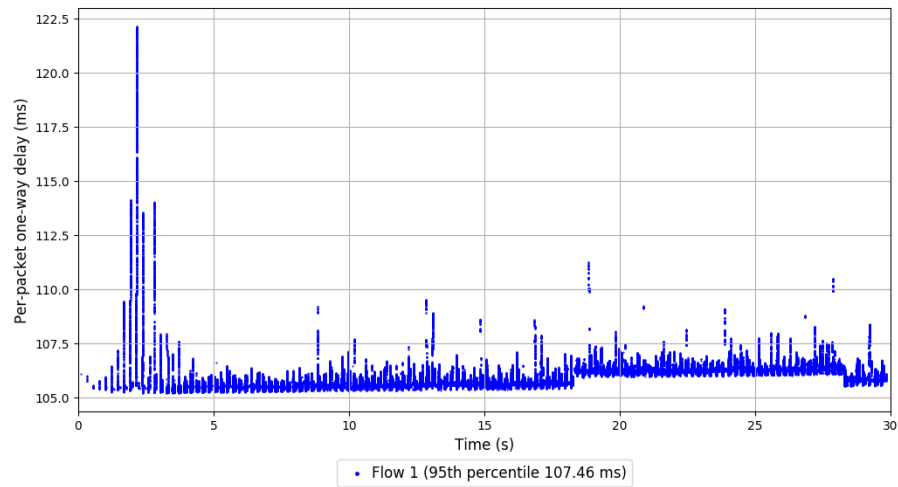
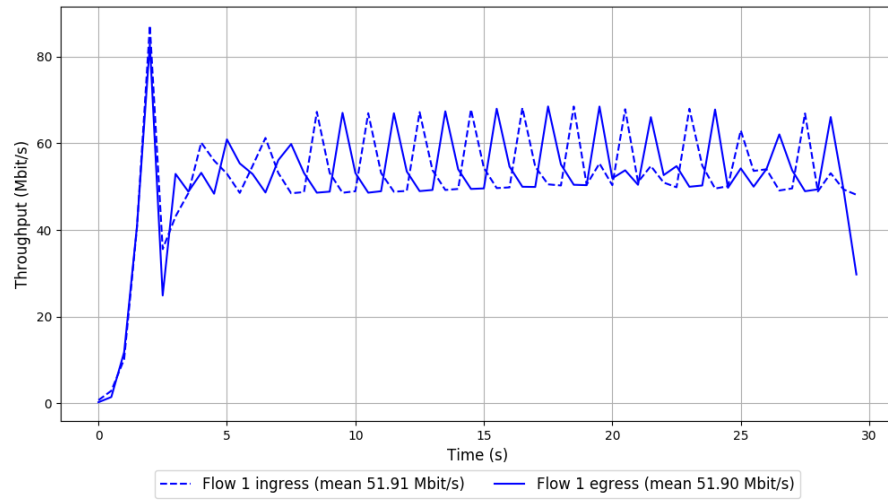
-- Flow 1:

Average throughput: 51.90 Mbit/s

95th percentile per-packet one-way delay: 107.456 ms

Loss rate: 0.77%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-03 02:06:40

End at: 2018-04-03 02:07:10

Below is generated by plot.py at 2018-04-03 05:14:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 112.902 ms

Loss rate: 0.08%

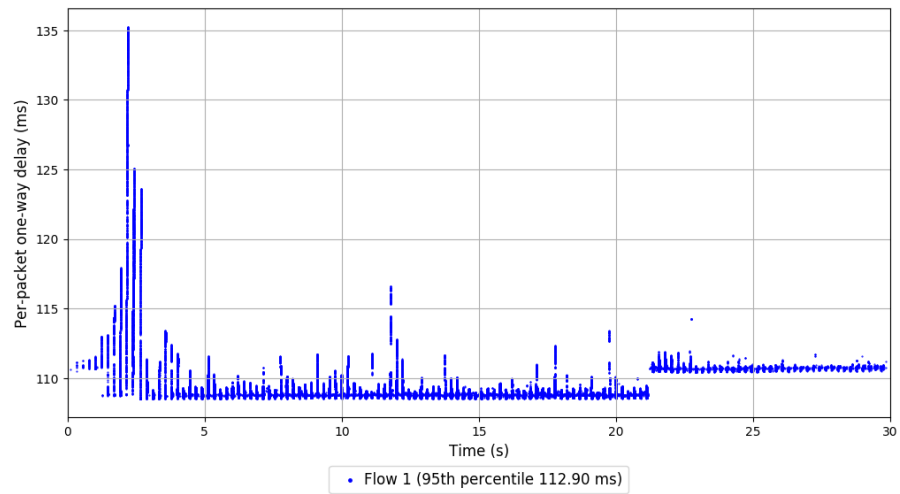
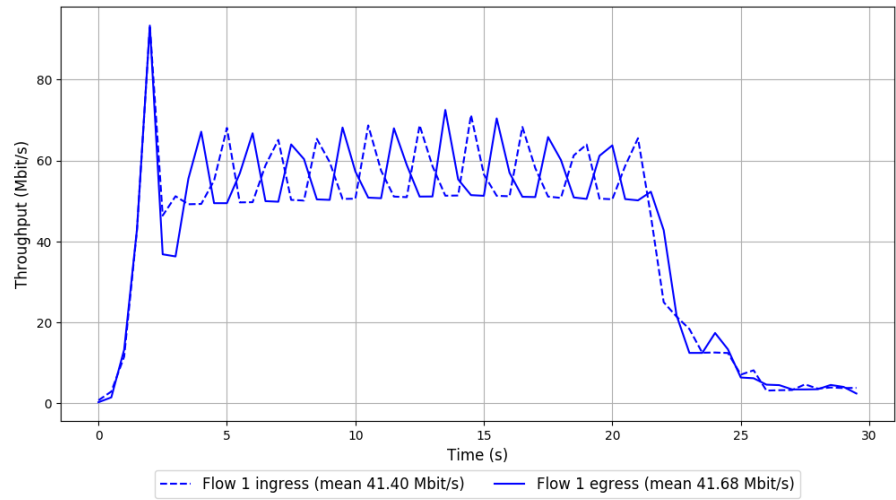
-- Flow 1:

Average throughput: 41.68 Mbit/s

95th percentile per-packet one-way delay: 112.902 ms

Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-02 23:42:23

End at: 2018-04-02 23:42:53

Below is generated by plot.py at 2018-04-03 05:16:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 182.50 Mbit/s

95th percentile per-packet one-way delay: 133.370 ms

Loss rate: 1.44%

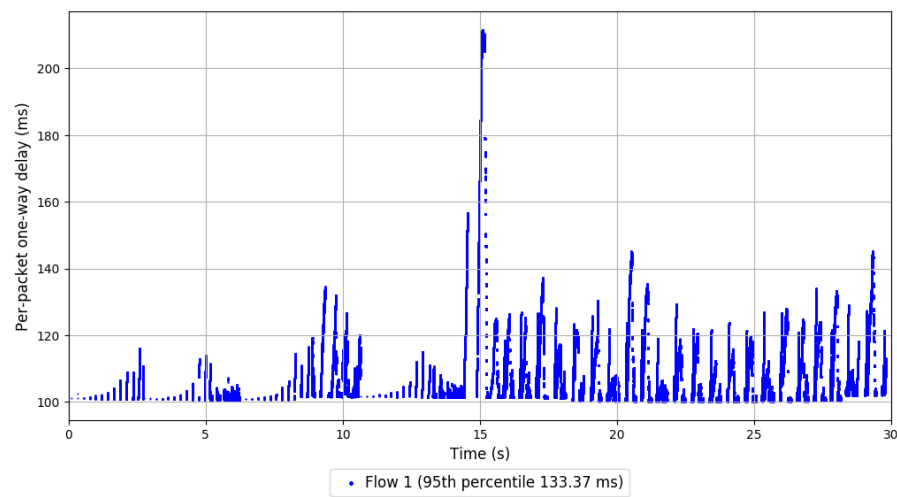
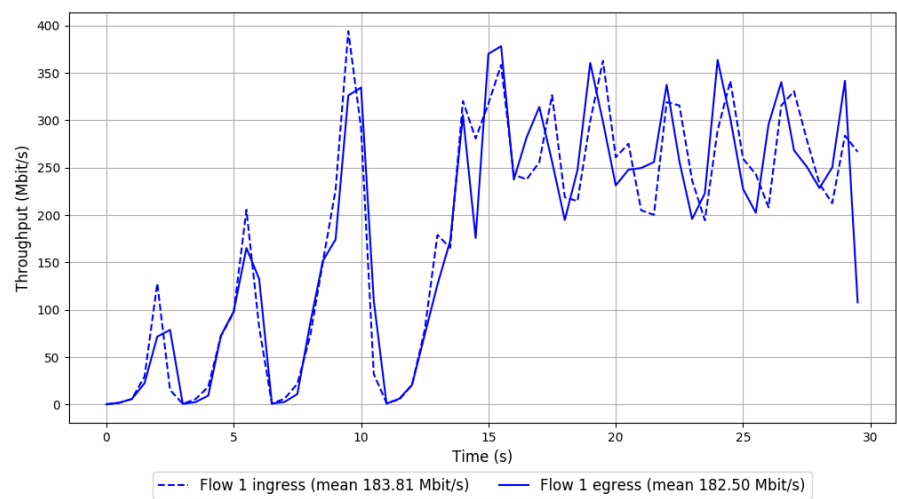
-- Flow 1:

Average throughput: 182.50 Mbit/s

95th percentile per-packet one-way delay: 133.370 ms

Loss rate: 1.44%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-02 23:57:52

End at: 2018-04-02 23:58:22

Below is generated by plot.py at 2018-04-03 05:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.76 Mbit/s

95th percentile per-packet one-way delay: 311.195 ms

Loss rate: 5.72%

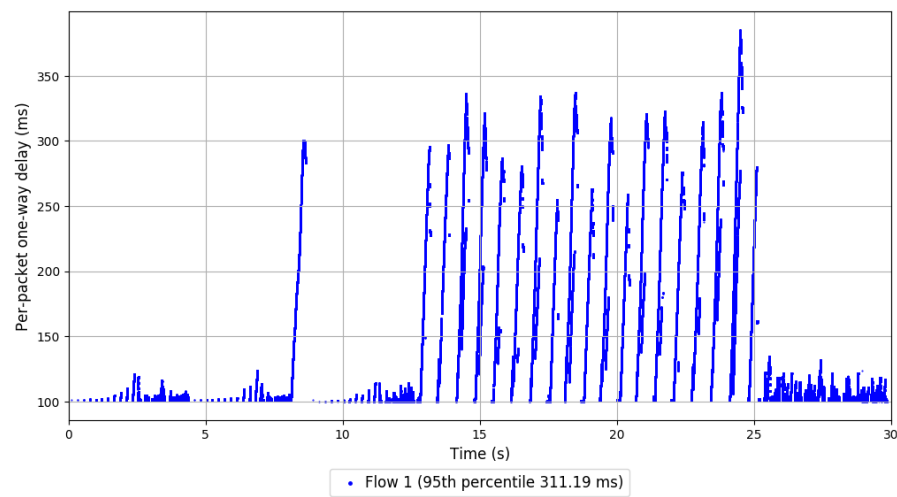
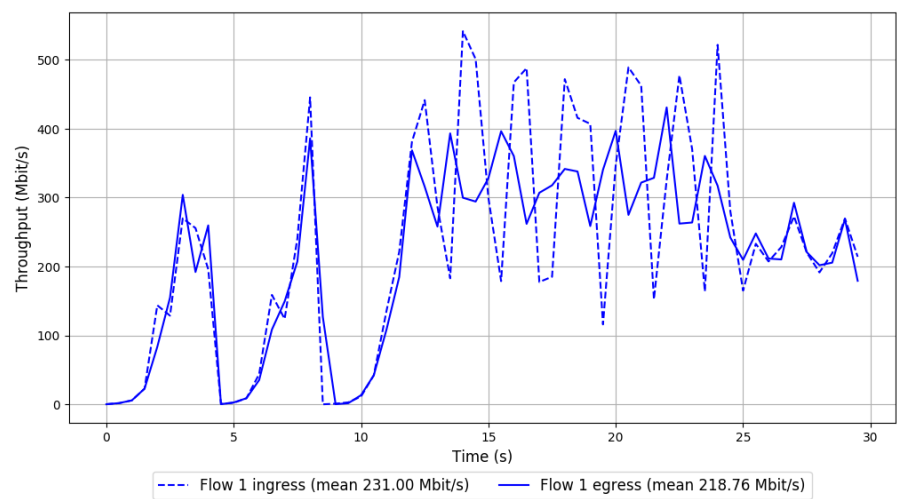
-- Flow 1:

Average throughput: 218.76 Mbit/s

95th percentile per-packet one-way delay: 311.195 ms

Loss rate: 5.72%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-03 00:13:15

End at: 2018-04-03 00:13:45

Below is generated by plot.py at 2018-04-03 05:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.27 Mbit/s

95th percentile per-packet one-way delay: 199.624 ms

Loss rate: 1.63%

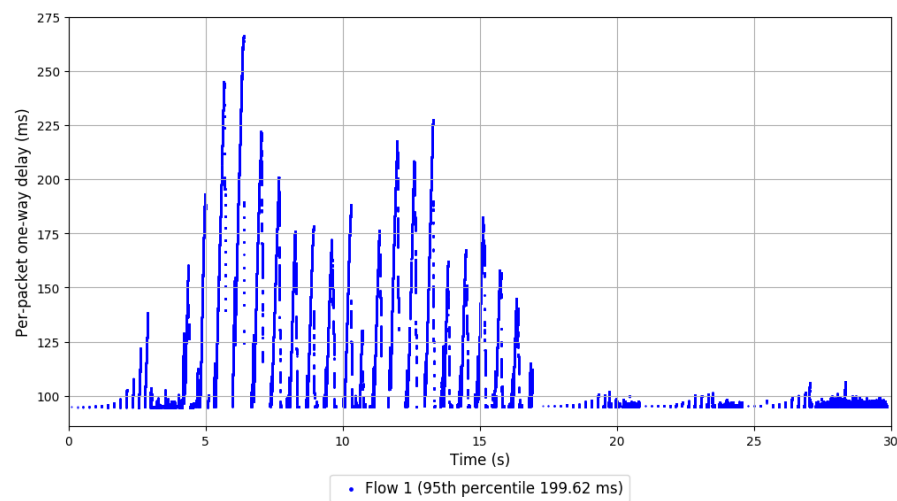
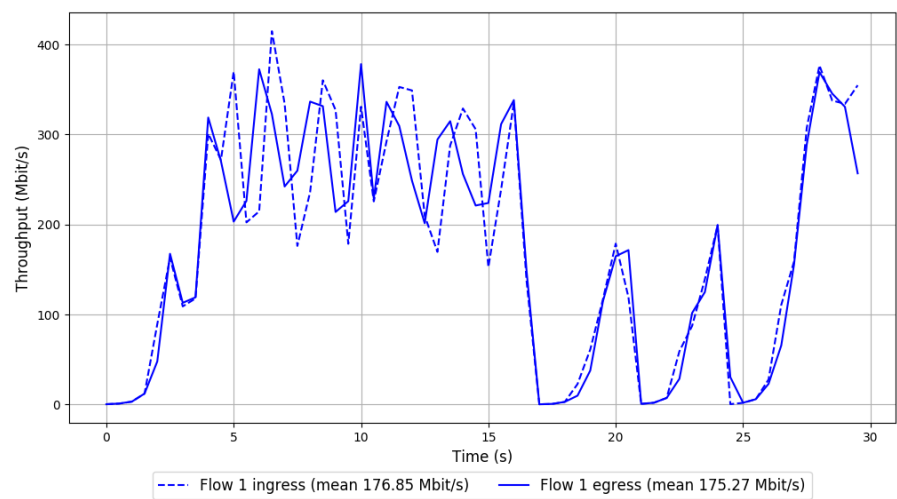
-- Flow 1:

Average throughput: 175.27 Mbit/s

95th percentile per-packet one-way delay: 199.624 ms

Loss rate: 1.63%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-03 00:28:45

End at: 2018-04-03 00:29:15

Below is generated by plot.py at 2018-04-03 05:17:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 190.62 Mbit/s

95th percentile per-packet one-way delay: 179.453 ms

Loss rate: 0.34%

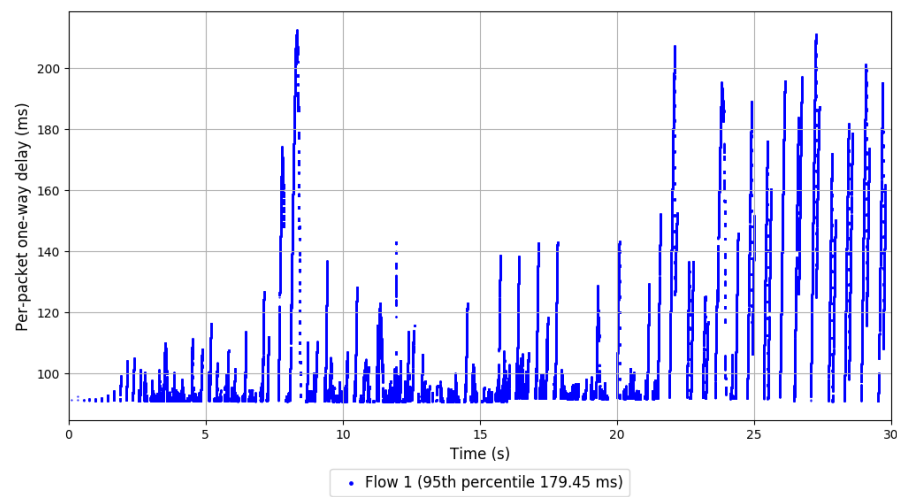
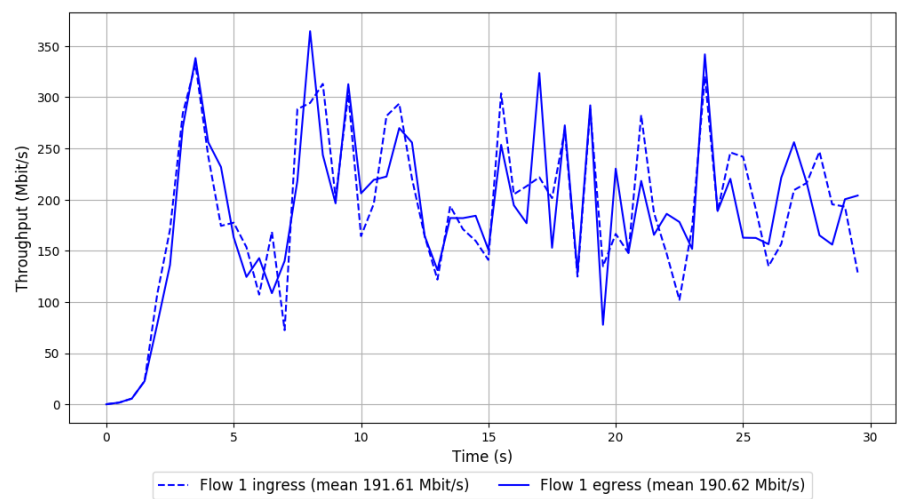
-- Flow 1:

Average throughput: 190.62 Mbit/s

95th percentile per-packet one-way delay: 179.453 ms

Loss rate: 0.34%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-03 00:44:05

End at: 2018-04-03 00:44:35

Below is generated by plot.py at 2018-04-03 05:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.57 Mbit/s

95th percentile per-packet one-way delay: 142.720 ms

Loss rate: 0.36%

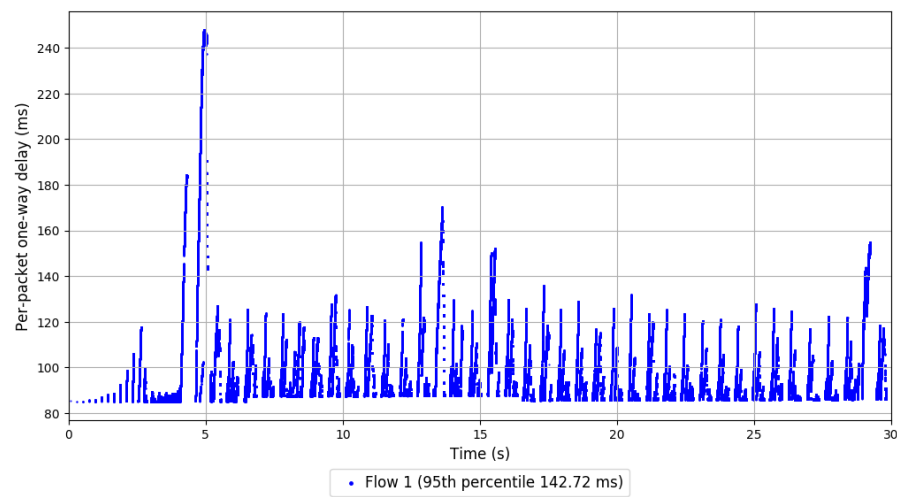
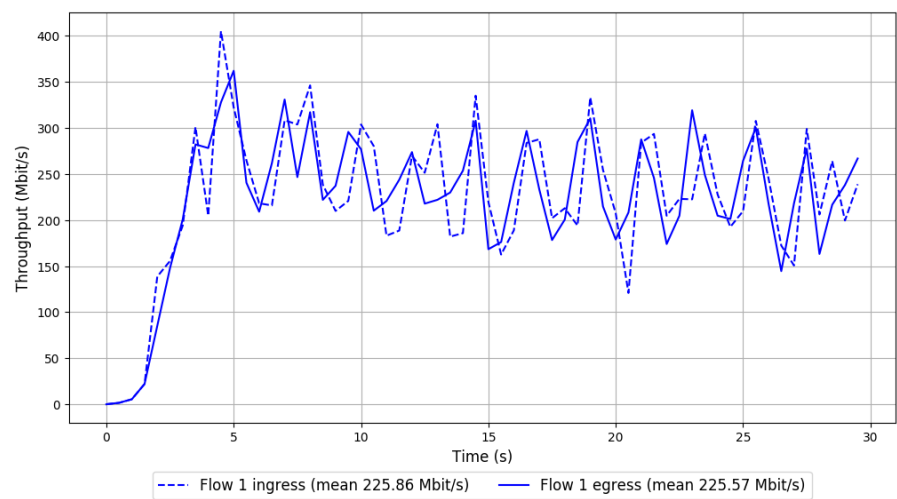
-- Flow 1:

Average throughput: 225.57 Mbit/s

95th percentile per-packet one-way delay: 142.720 ms

Loss rate: 0.36%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-03 00:59:25

End at: 2018-04-03 00:59:55

Below is generated by plot.py at 2018-04-03 05:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.10 Mbit/s

95th percentile per-packet one-way delay: 247.983 ms

Loss rate: 0.28%

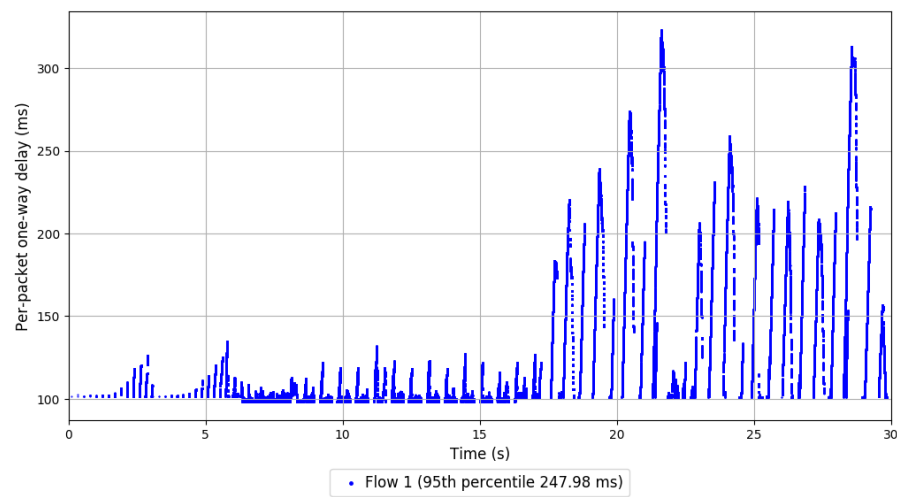
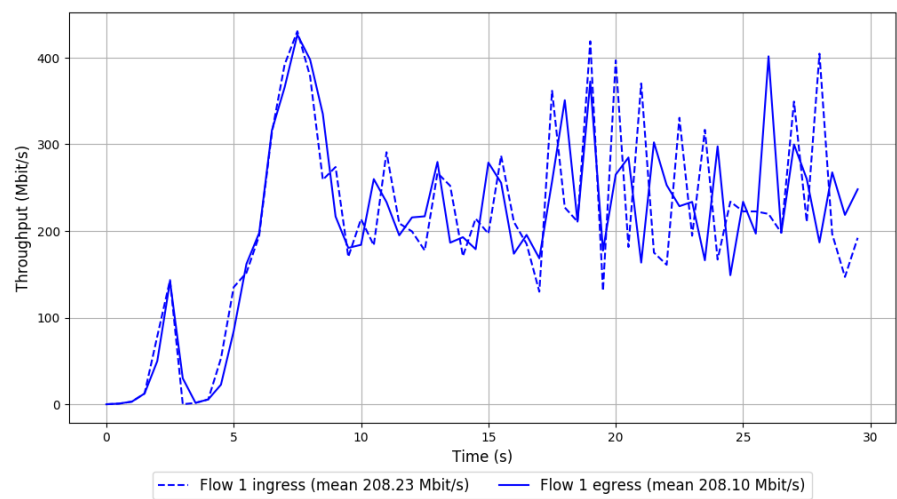
-- Flow 1:

Average throughput: 208.10 Mbit/s

95th percentile per-packet one-way delay: 247.983 ms

Loss rate: 0.28%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-03 01:14:36

End at: 2018-04-03 01:15:06

Below is generated by plot.py at 2018-04-03 05:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 147.68 Mbit/s

95th percentile per-packet one-way delay: 142.542 ms

Loss rate: 1.00%

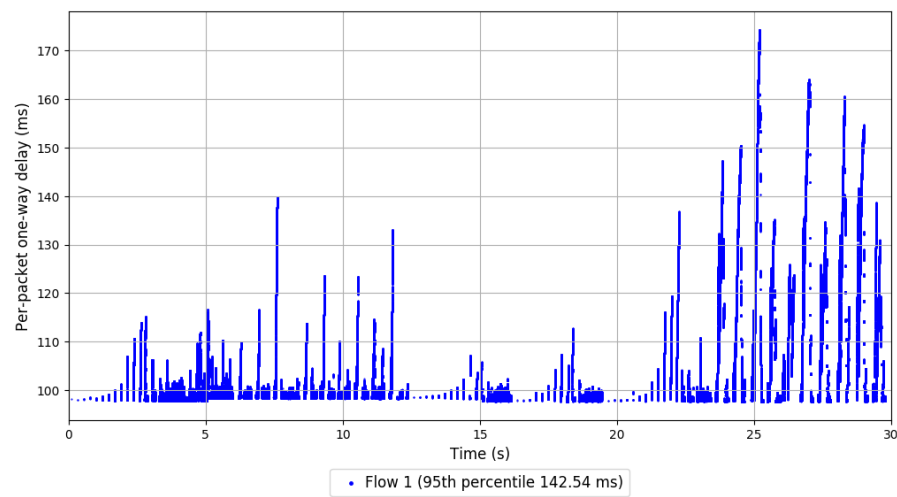
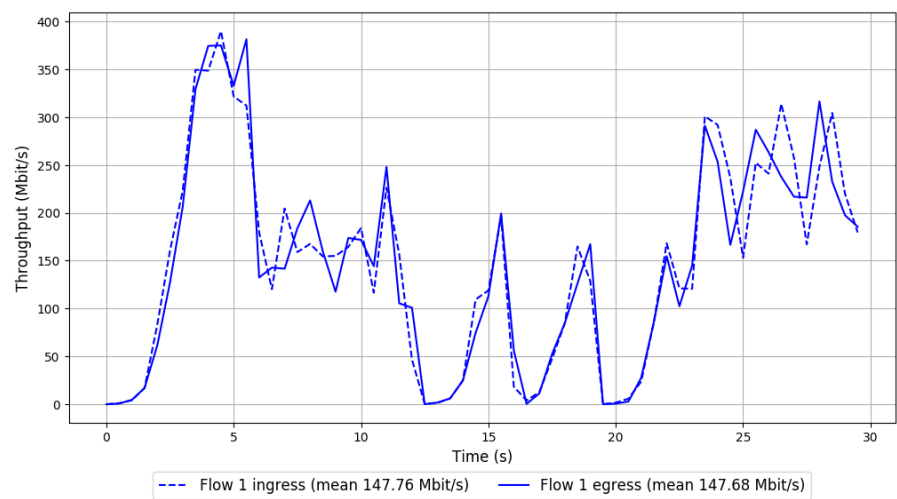
-- Flow 1:

Average throughput: 147.68 Mbit/s

95th percentile per-packet one-way delay: 142.542 ms

Loss rate: 1.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-03 01:30:13

End at: 2018-04-03 01:30:43

Below is generated by plot.py at 2018-04-03 05:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.39 Mbit/s

95th percentile per-packet one-way delay: 250.488 ms

Loss rate: 3.26%

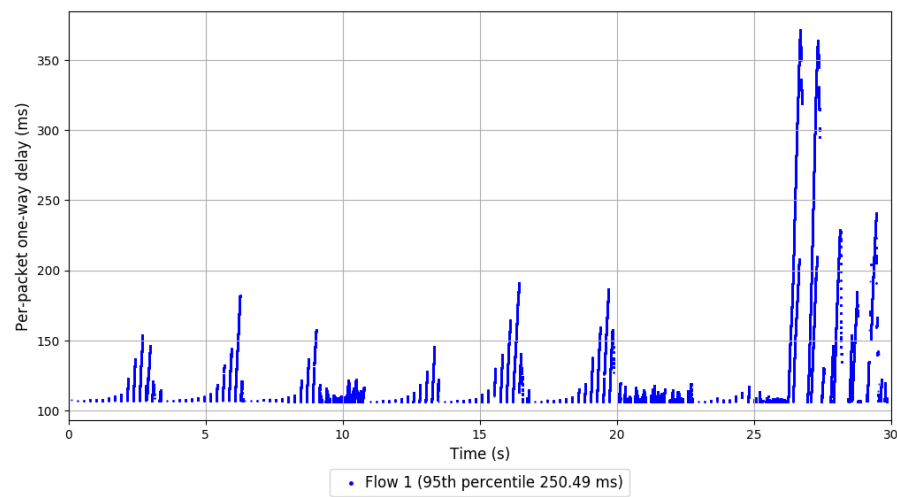
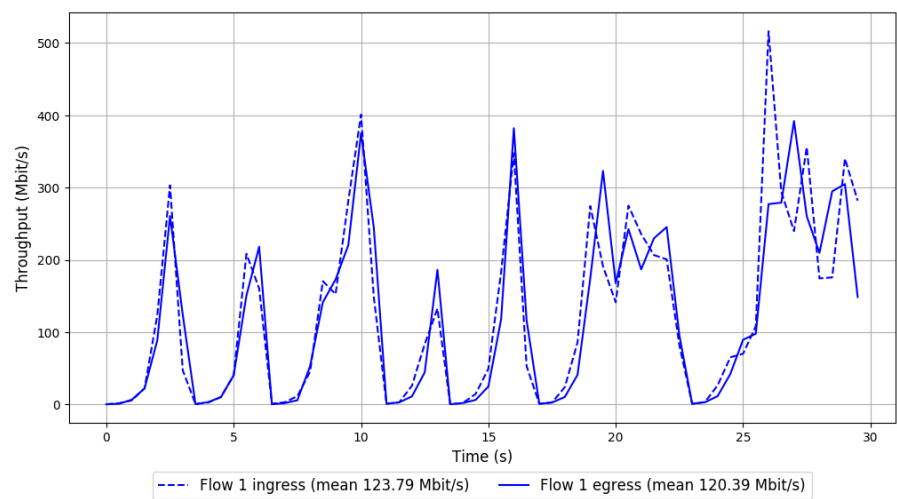
-- Flow 1:

Average throughput: 120.39 Mbit/s

95th percentile per-packet one-way delay: 250.488 ms

Loss rate: 3.26%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-03 01:45:36

End at: 2018-04-03 01:46:06

Below is generated by plot.py at 2018-04-03 05:18:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.60 Mbit/s

95th percentile per-packet one-way delay: 132.831 ms

Loss rate: 0.86%

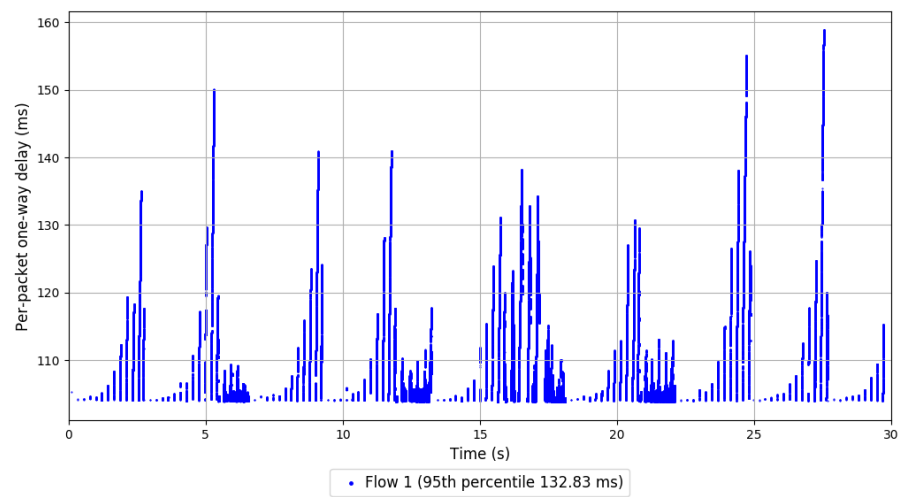
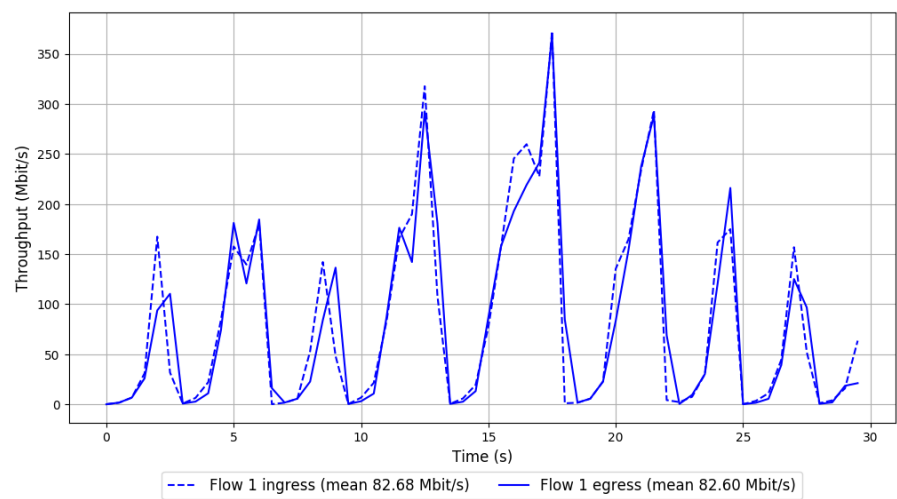
-- Flow 1:

Average throughput: 82.60 Mbit/s

95th percentile per-packet one-way delay: 132.831 ms

Loss rate: 0.86%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-03 02:00:48

End at: 2018-04-03 02:01:18

Below is generated by plot.py at 2018-04-03 05:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.17 Mbit/s

95th percentile per-packet one-way delay: 306.154 ms

Loss rate: 2.67%

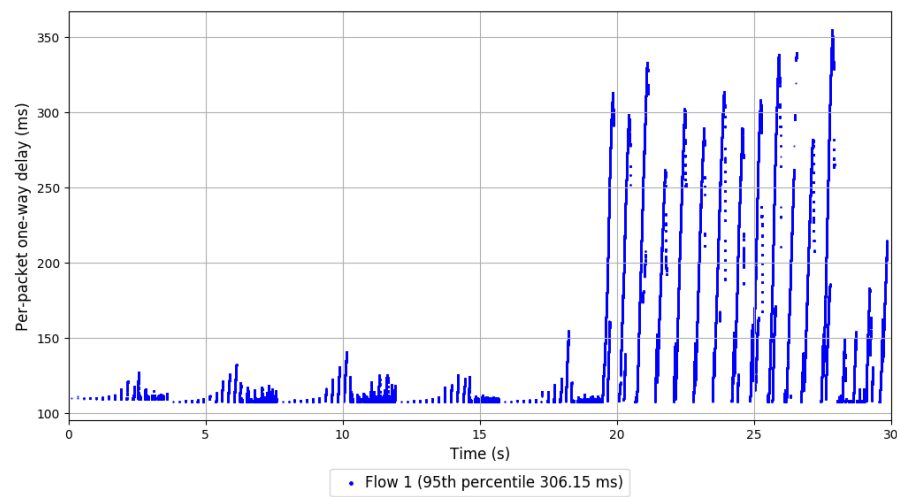
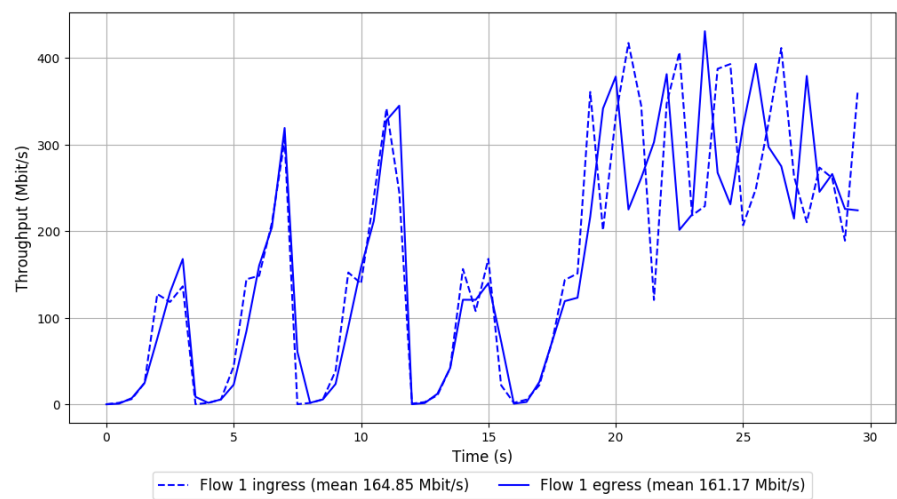
-- Flow 1:

Average throughput: 161.17 Mbit/s

95th percentile per-packet one-way delay: 306.154 ms

Loss rate: 2.67%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-02 23:43:57

End at: 2018-04-02 23:44:27

Below is generated by plot.py at 2018-04-03 05:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.41 Mbit/s

95th percentile per-packet one-way delay: 105.152 ms

Loss rate: 0.10%

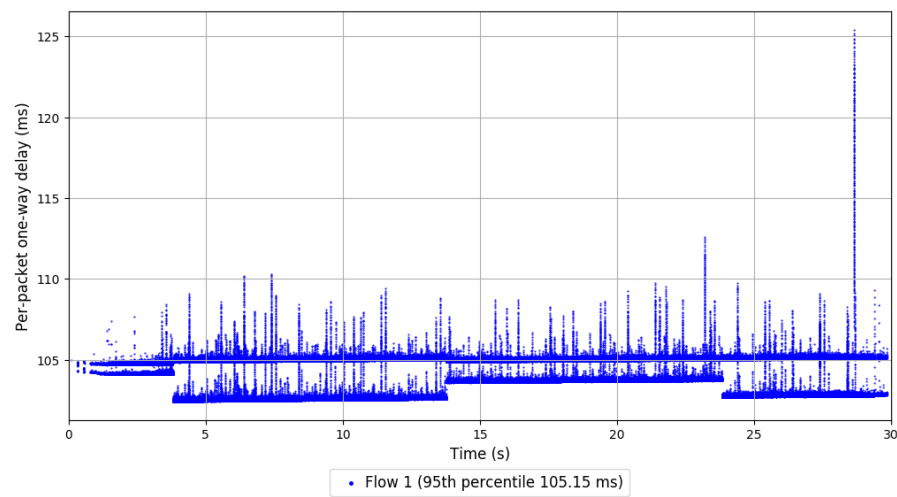
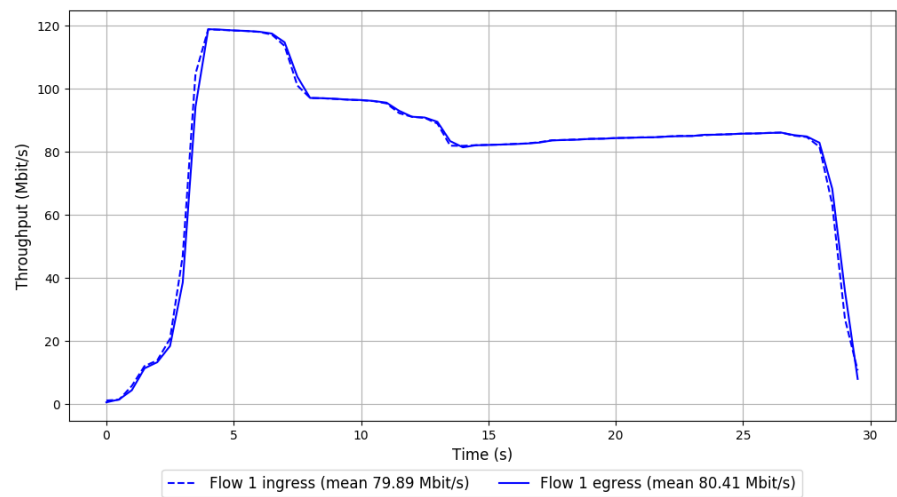
-- Flow 1:

Average throughput: 80.41 Mbit/s

95th percentile per-packet one-way delay: 105.152 ms

Loss rate: 0.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-02 23:59:29

End at: 2018-04-02 23:59:59

Below is generated by plot.py at 2018-04-03 05:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.57 Mbit/s

95th percentile per-packet one-way delay: 99.376 ms

Loss rate: 0.13%

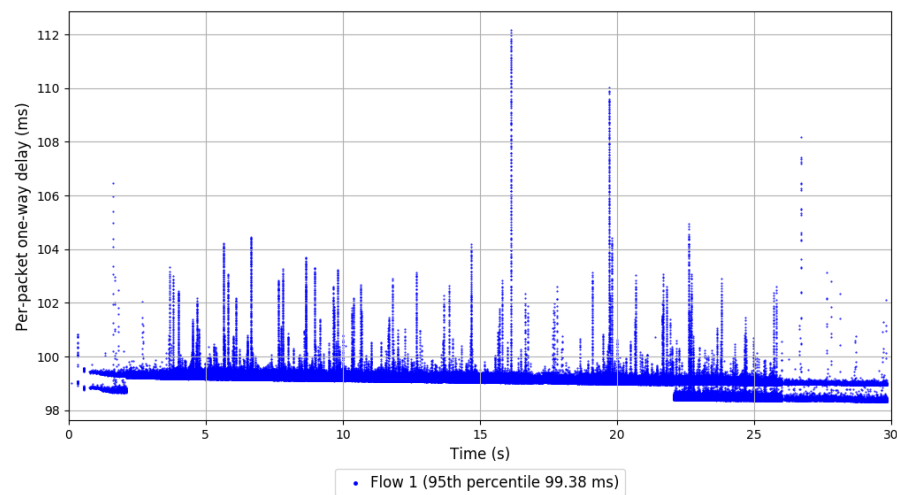
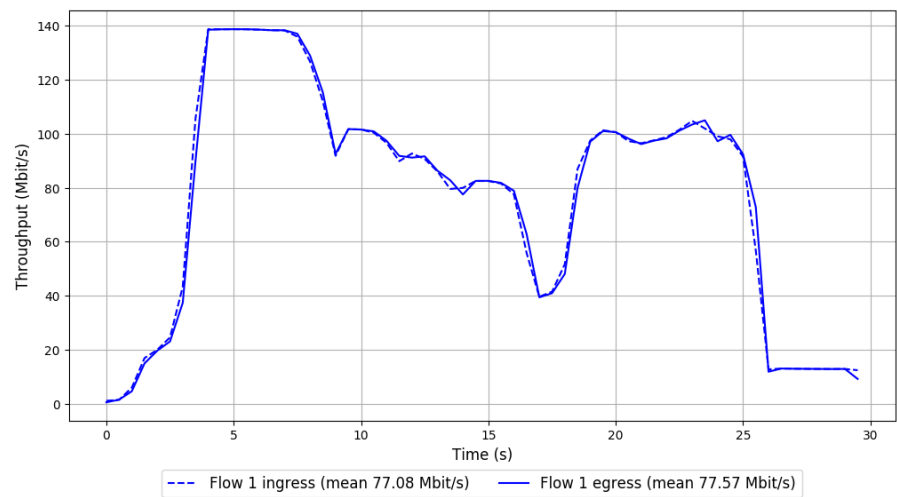
-- Flow 1:

Average throughput: 77.57 Mbit/s

95th percentile per-packet one-way delay: 99.376 ms

Loss rate: 0.13%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-04-03 00:14:49

End at: 2018-04-03 00:15:19

Below is generated by plot.py at 2018-04-03 05:20:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.59 Mbit/s

95th percentile per-packet one-way delay: 96.593 ms

Loss rate: 0.65%

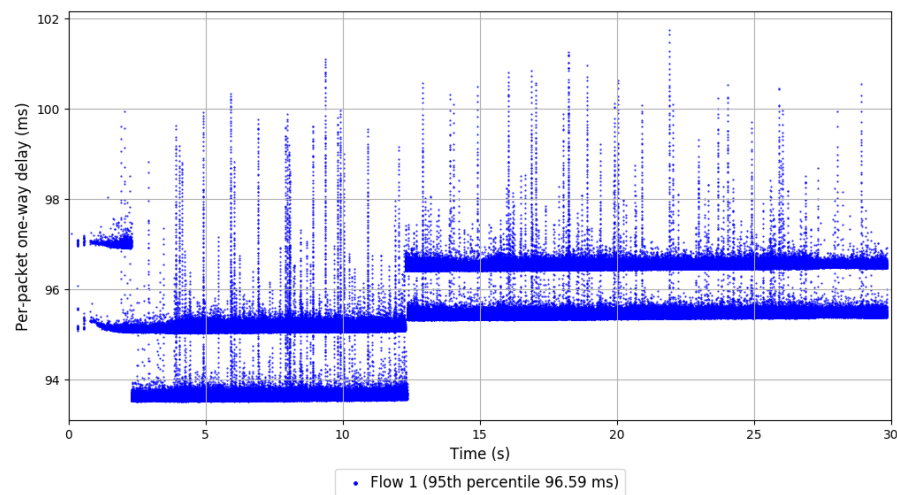
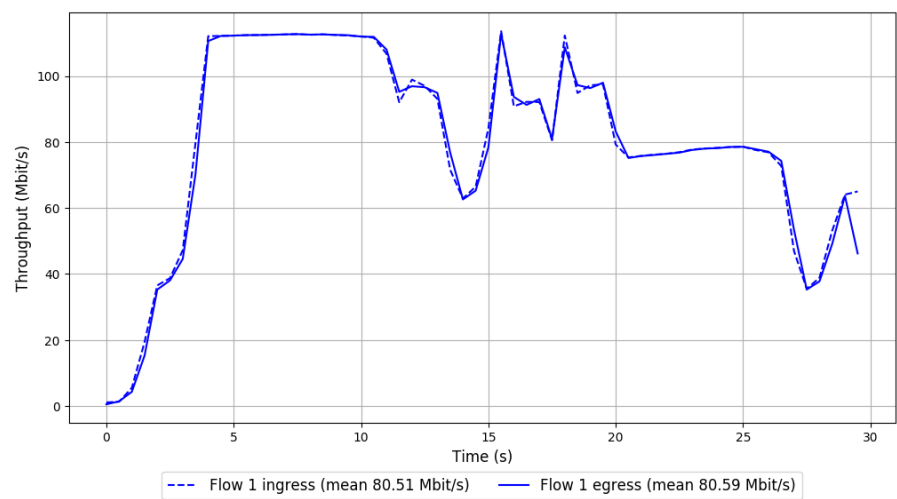
-- Flow 1:

Average throughput: 80.59 Mbit/s

95th percentile per-packet one-way delay: 96.593 ms

Loss rate: 0.65%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-03 00:30:20

End at: 2018-04-03 00:30:50

Below is generated by plot.py at 2018-04-03 05:20:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 91.852 ms

Loss rate: 1.10%

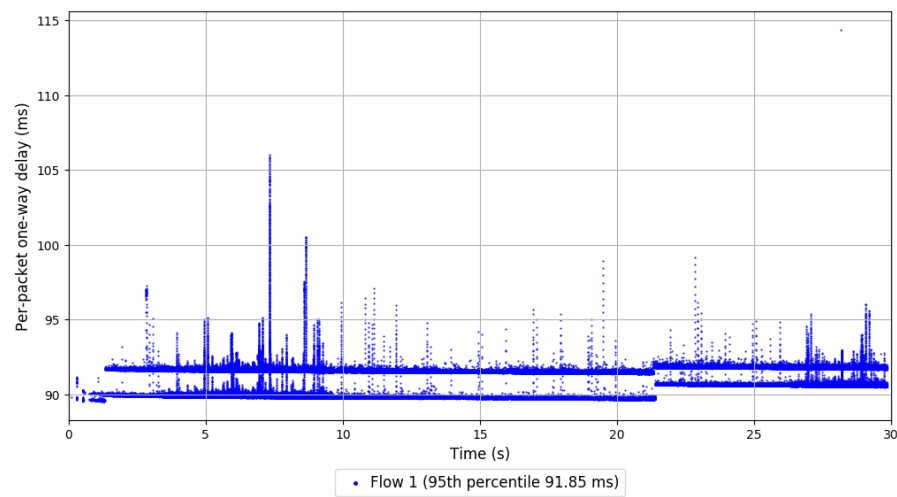
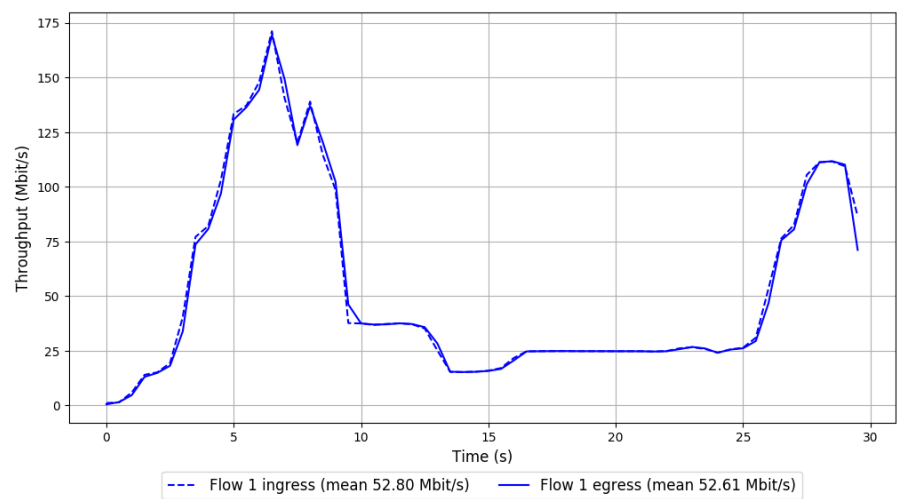
-- Flow 1:

Average throughput: 52.61 Mbit/s

95th percentile per-packet one-way delay: 91.852 ms

Loss rate: 1.10%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-03 00:45:41

End at: 2018-04-03 00:46:11

Below is generated by plot.py at 2018-04-03 05:20:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 89.520 ms

Loss rate: 1.29%

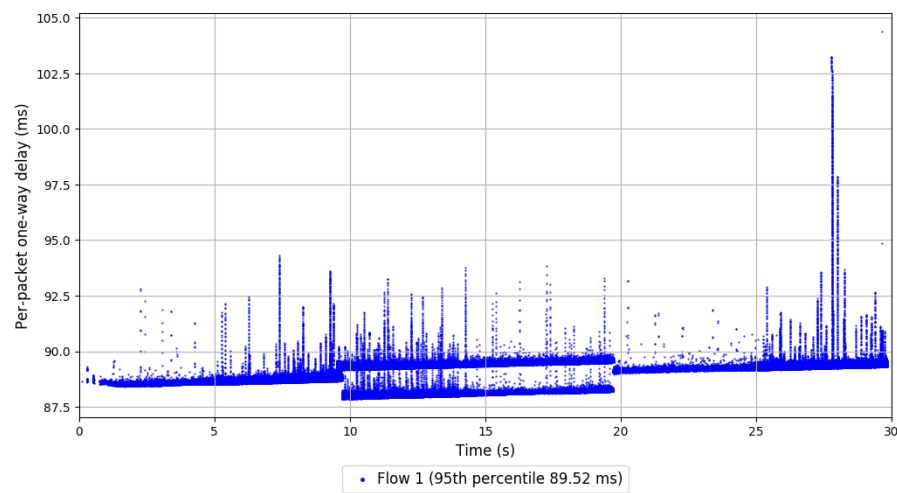
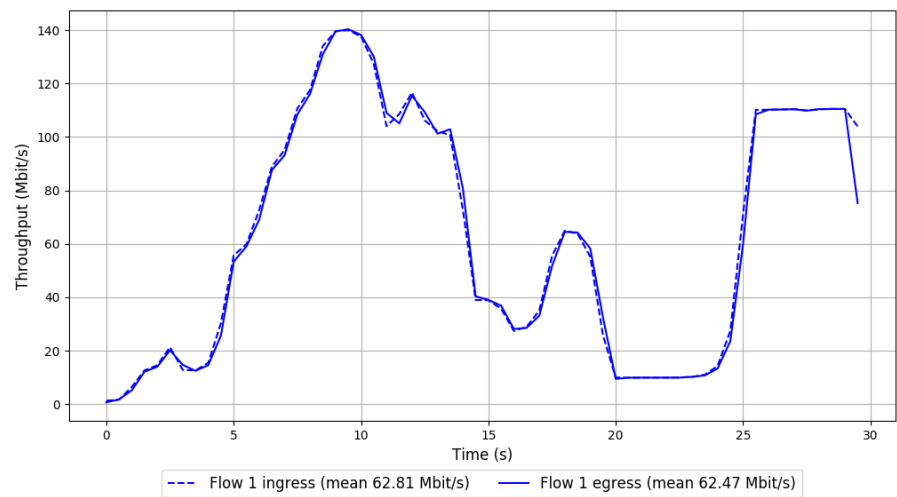
-- Flow 1:

Average throughput: 62.47 Mbit/s

95th percentile per-packet one-way delay: 89.520 ms

Loss rate: 1.29%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-03 01:01:01

End at: 2018-04-03 01:01:31

Below is generated by plot.py at 2018-04-03 05:20:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 101.514 ms

Loss rate: 0.44%

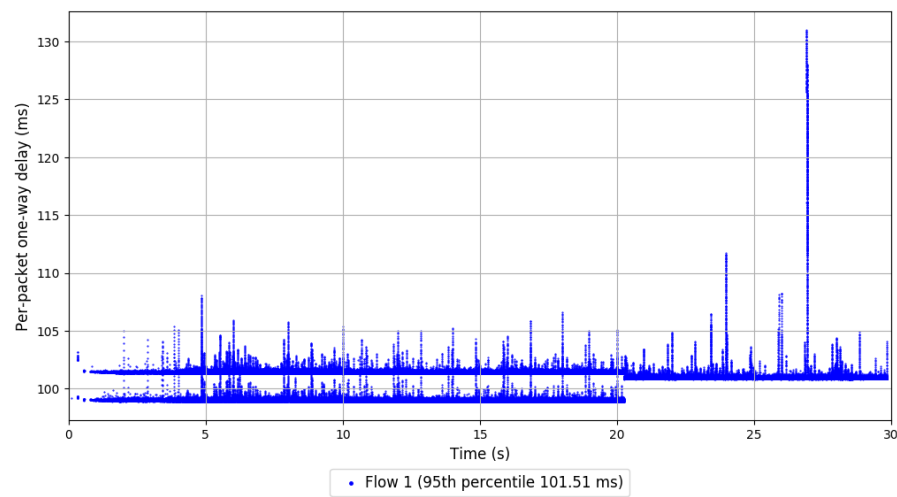
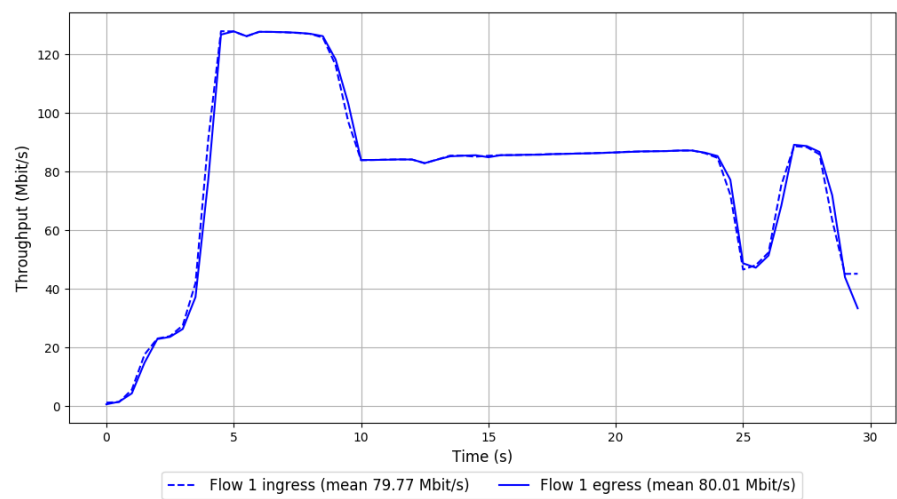
-- Flow 1:

Average throughput: 80.01 Mbit/s

95th percentile per-packet one-way delay: 101.514 ms

Loss rate: 0.44%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-03 01:16:08

End at: 2018-04-03 01:16:38

Below is generated by plot.py at 2018-04-03 05:21:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.57 Mbit/s

95th percentile per-packet one-way delay: 97.354 ms

Loss rate: 0.18%

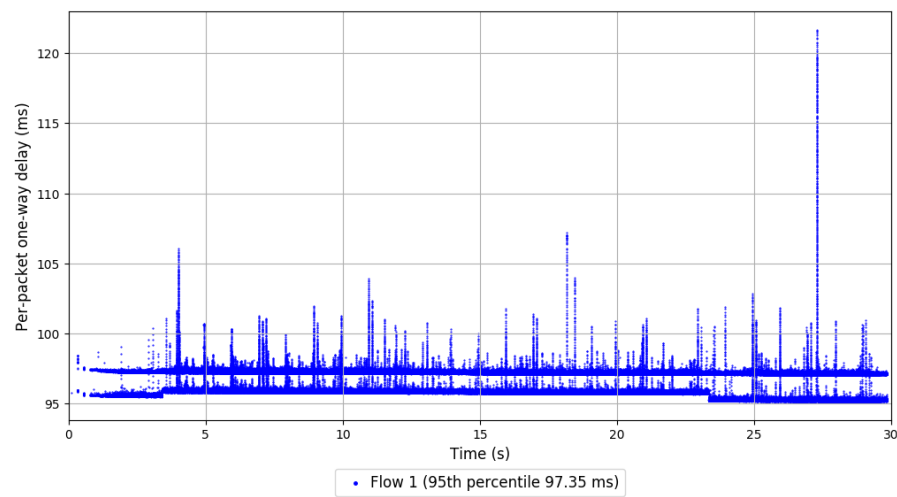
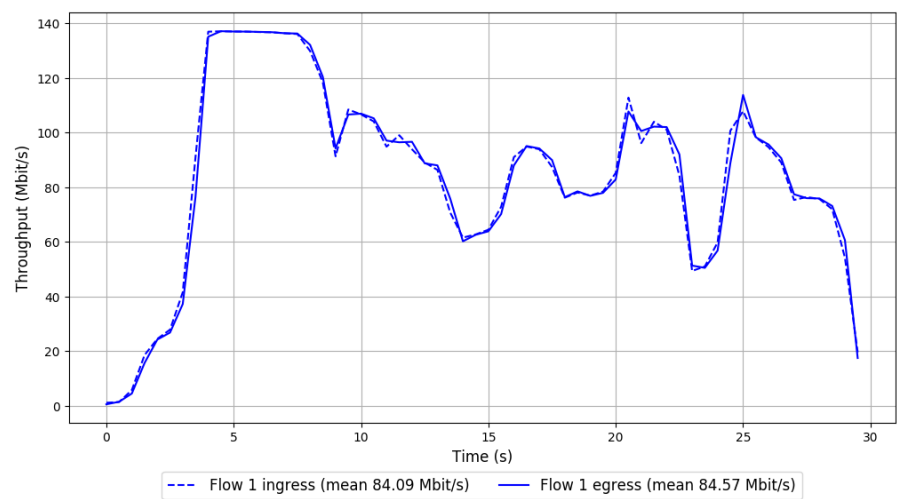
-- Flow 1:

Average throughput: 84.57 Mbit/s

95th percentile per-packet one-way delay: 97.354 ms

Loss rate: 0.18%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-03 01:31:43

End at: 2018-04-03 01:32:13

Below is generated by plot.py at 2018-04-03 05:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 107.278 ms

Loss rate: 0.80%

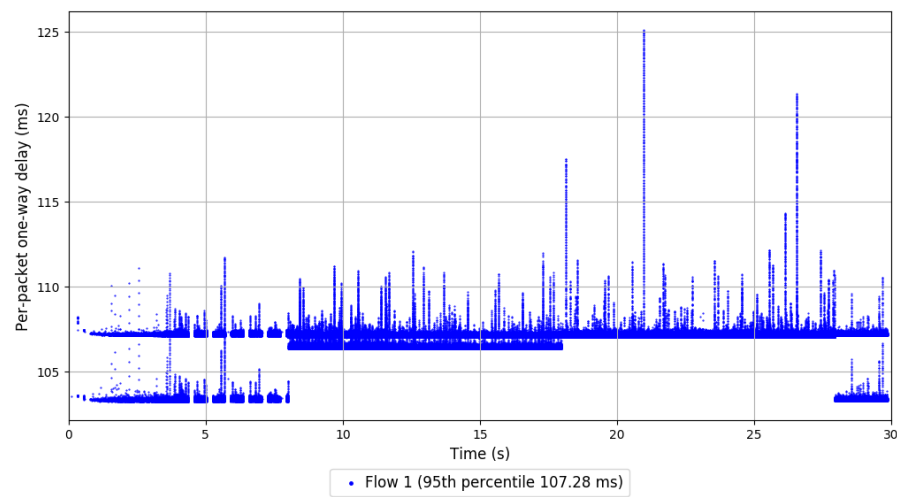
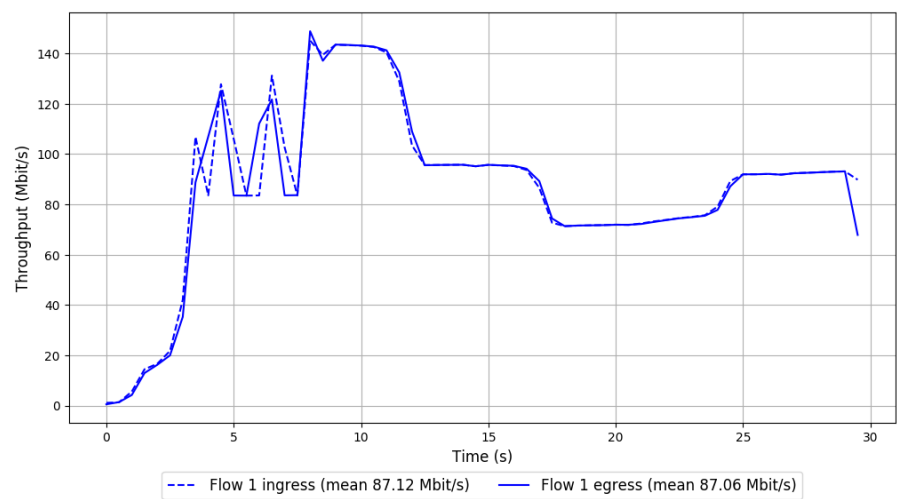
-- Flow 1:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 107.278 ms

Loss rate: 0.80%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-03 01:47:03

End at: 2018-04-03 01:47:33

Below is generated by plot.py at 2018-04-03 05:21:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 105.958 ms

Loss rate: 0.98%

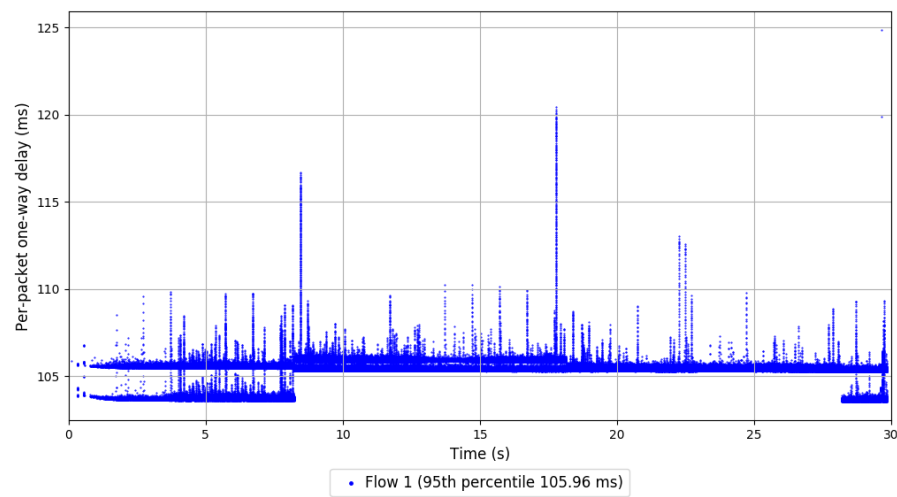
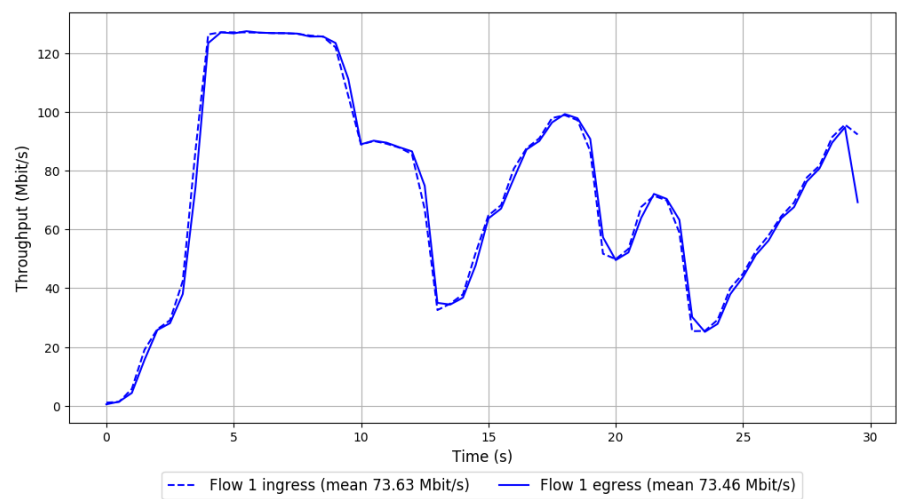
-- Flow 1:

Average throughput: 73.46 Mbit/s

95th percentile per-packet one-way delay: 105.958 ms

Loss rate: 0.98%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-03 02:02:20

End at: 2018-04-03 02:02:50

Below is generated by plot.py at 2018-04-03 05:21:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 110.346 ms

Loss rate: 0.54%

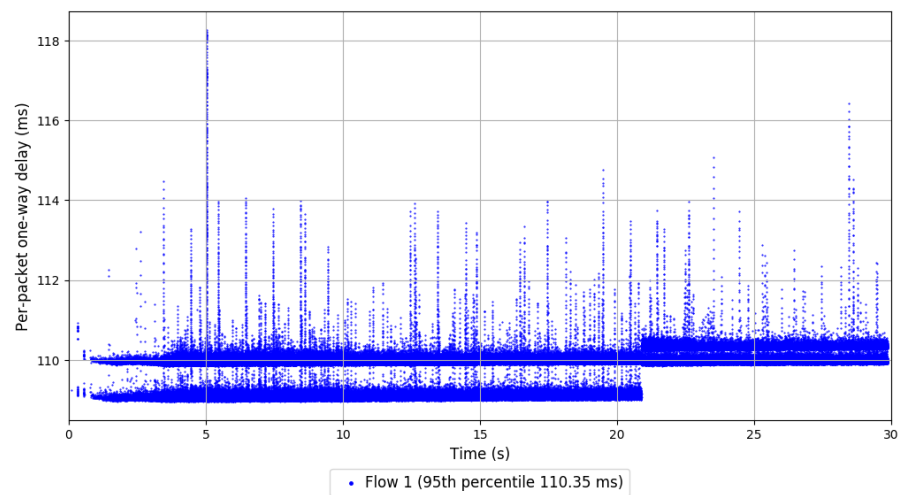
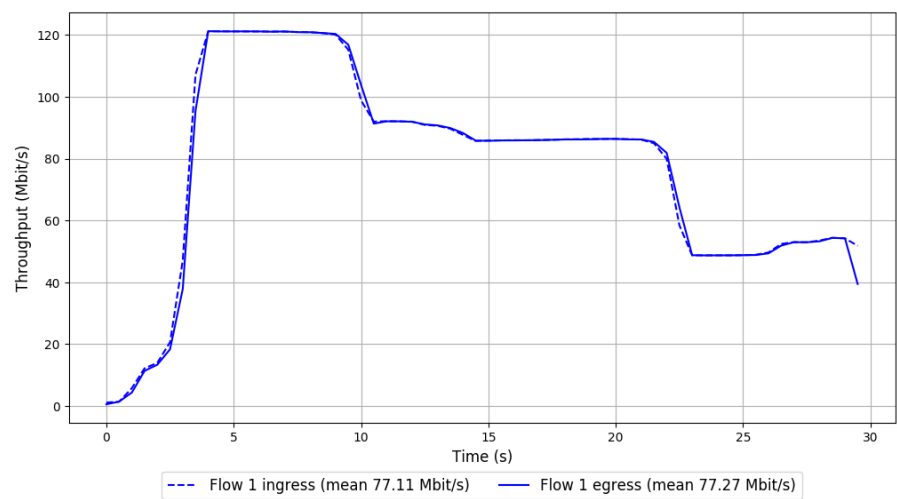
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 110.346 ms

Loss rate: 0.54%

Run 10: Report of Copa — Data Link

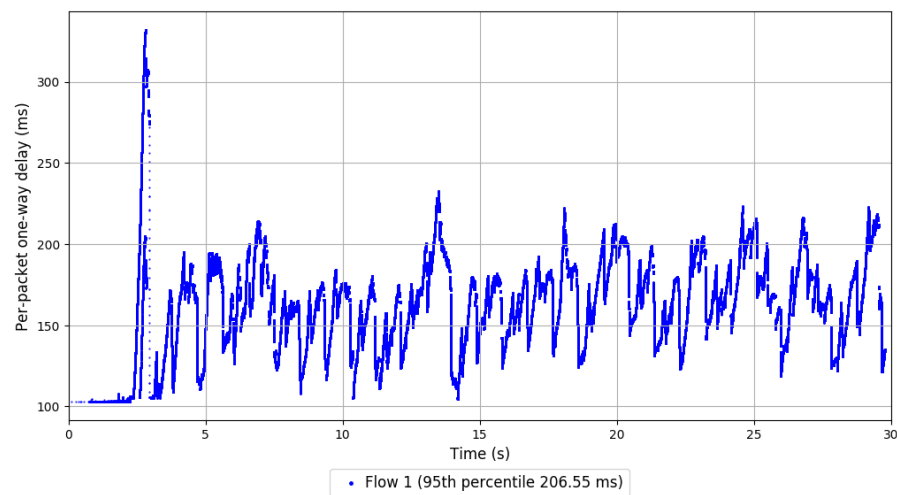
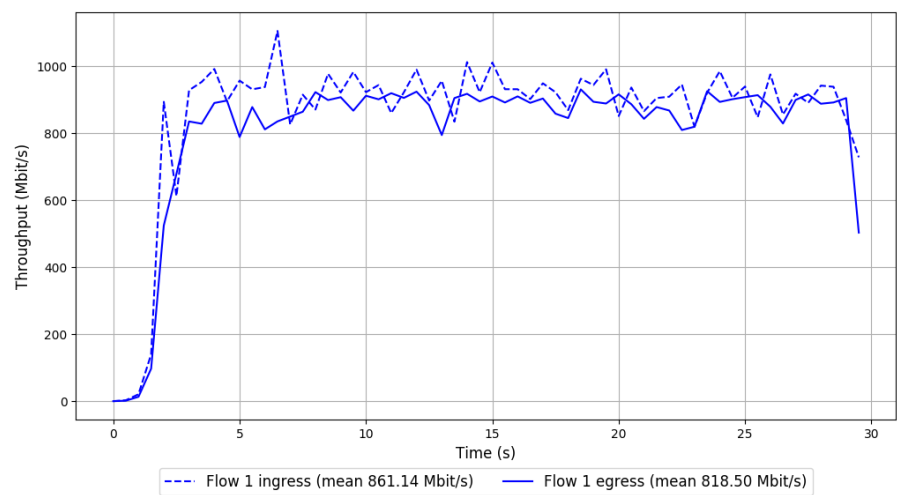


```
Run 1: Statistics of FillP

Start at: 2018-04-02 23:46:19
End at: 2018-04-02 23:46:49

# Below is generated by plot.py at 2018-04-03 05:34:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 818.50 Mbit/s
95th percentile per-packet one-way delay: 206.553 ms
Loss rate: 5.66%
-- Flow 1:
Average throughput: 818.50 Mbit/s
95th percentile per-packet one-way delay: 206.553 ms
Loss rate: 5.66%
```

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-03 00:01:53

End at: 2018-04-03 00:02:23

Below is generated by plot.py at 2018-04-03 05:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.07 Mbit/s

95th percentile per-packet one-way delay: 193.988 ms

Loss rate: 6.25%

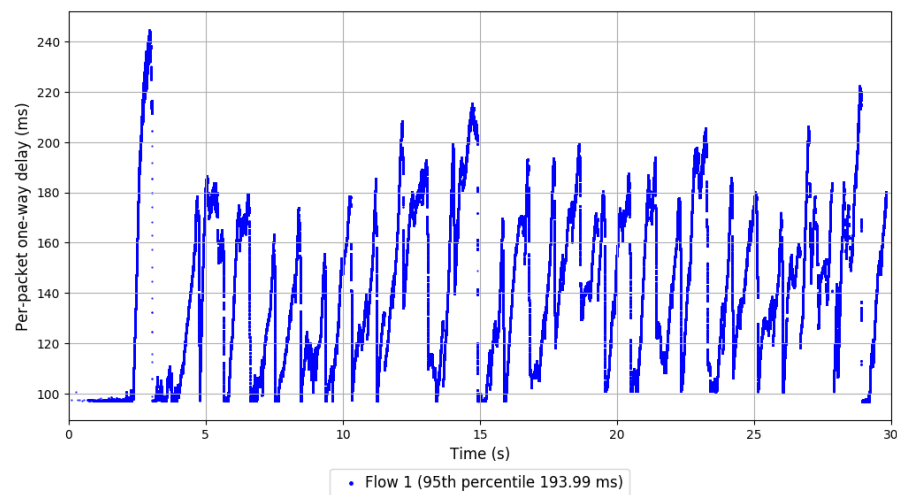
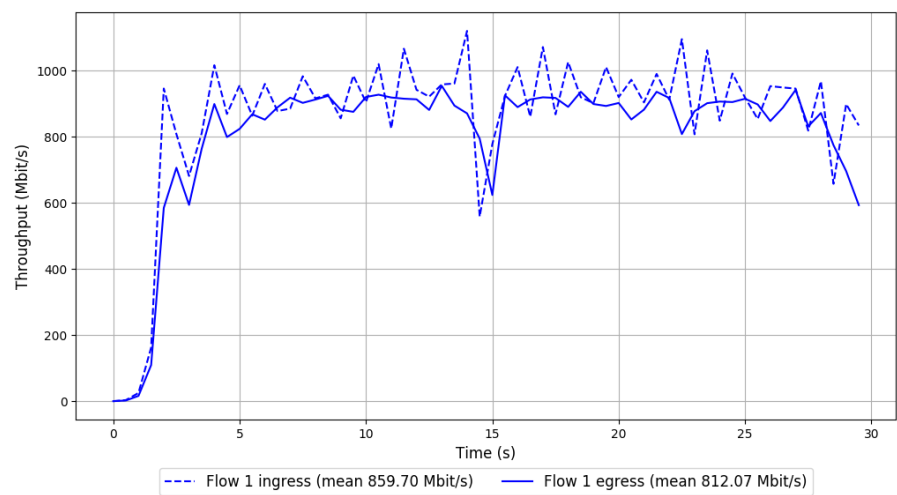
-- Flow 1:

Average throughput: 812.07 Mbit/s

95th percentile per-packet one-way delay: 193.988 ms

Loss rate: 6.25%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-03 00:17:12

End at: 2018-04-03 00:17:42

Below is generated by plot.py at 2018-04-03 05:34:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 807.65 Mbit/s

95th percentile per-packet one-way delay: 217.590 ms

Loss rate: 4.56%

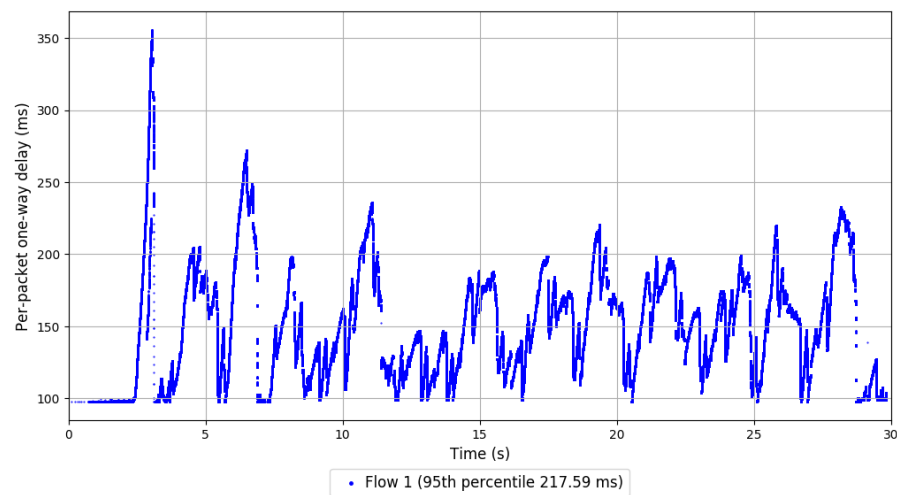
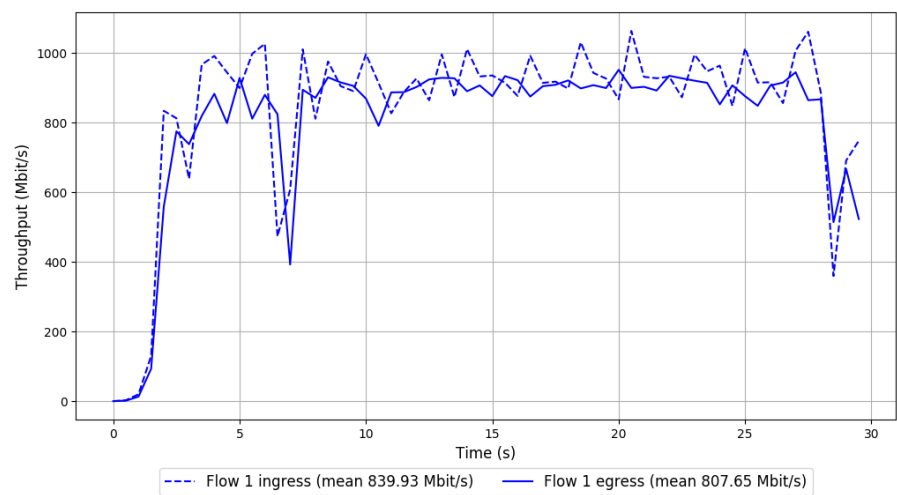
-- Flow 1:

Average throughput: 807.65 Mbit/s

95th percentile per-packet one-way delay: 217.590 ms

Loss rate: 4.56%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-03 00:32:40

End at: 2018-04-03 00:33:10

Below is generated by plot.py at 2018-04-03 05:34:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 777.33 Mbit/s

95th percentile per-packet one-way delay: 242.943 ms

Loss rate: 6.22%

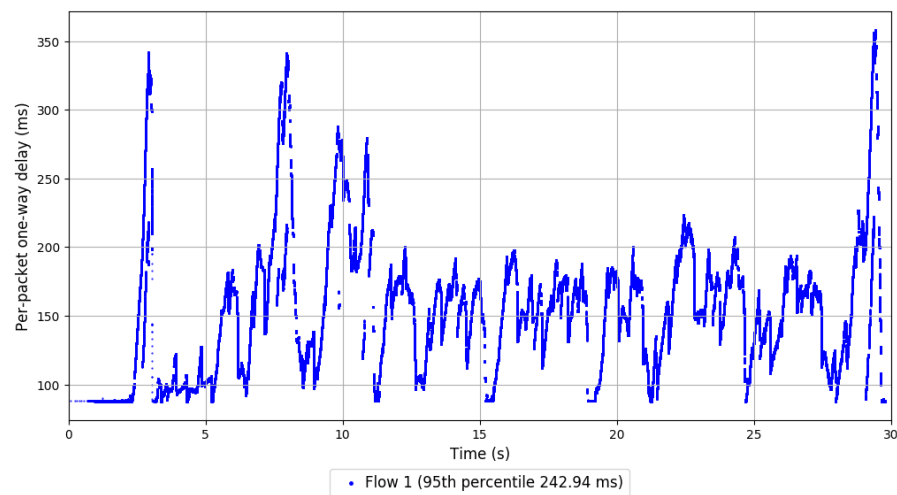
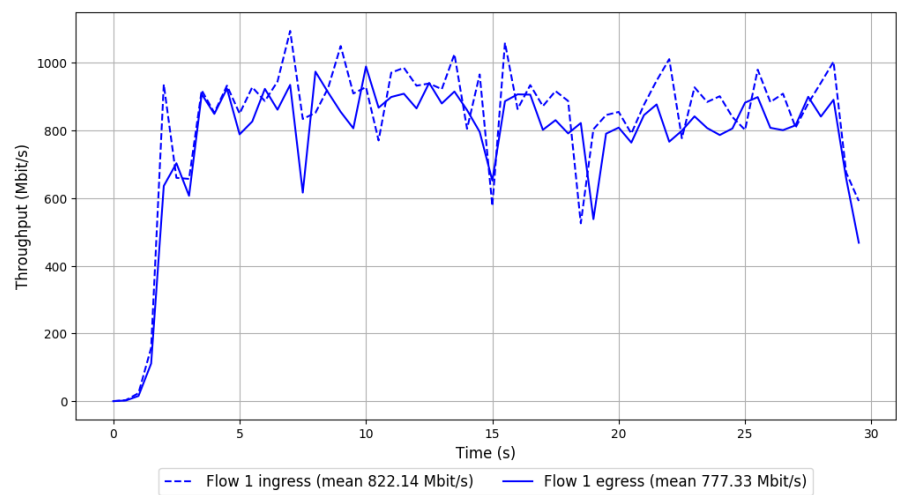
-- Flow 1:

Average throughput: 777.33 Mbit/s

95th percentile per-packet one-way delay: 242.943 ms

Loss rate: 6.22%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-03 00:48:03

End at: 2018-04-03 00:48:33

Below is generated by plot.py at 2018-04-03 05:35:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.68 Mbit/s

95th percentile per-packet one-way delay: 182.722 ms

Loss rate: 6.58%

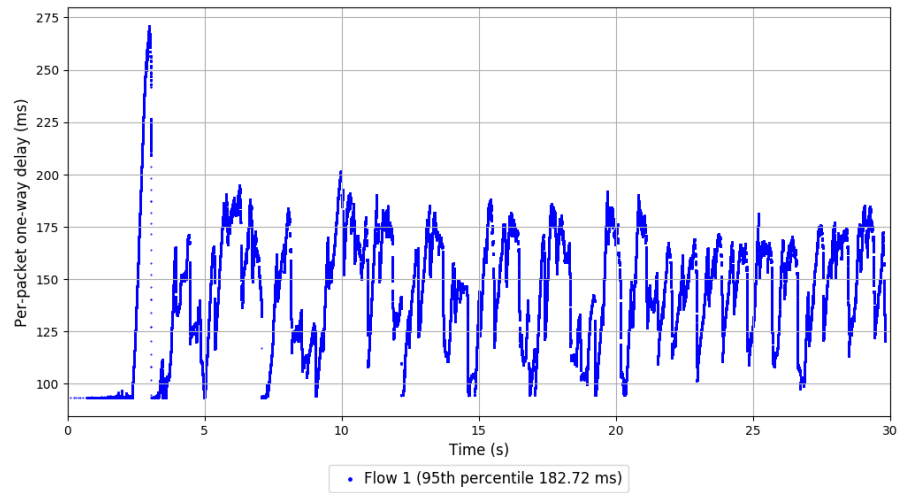
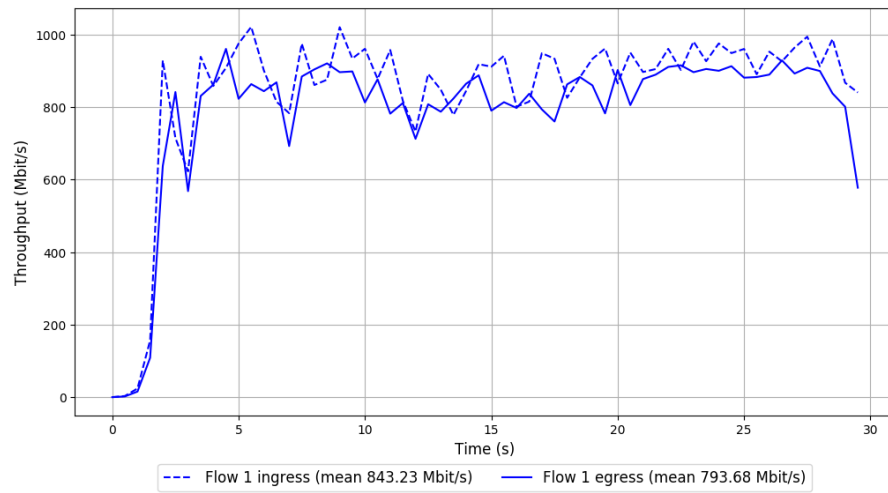
-- Flow 1:

Average throughput: 793.68 Mbit/s

95th percentile per-packet one-way delay: 182.722 ms

Loss rate: 6.58%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-03 01:03:24

End at: 2018-04-03 01:03:54

Below is generated by plot.py at 2018-04-03 05:35:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.26 Mbit/s

95th percentile per-packet one-way delay: 193.239 ms

Loss rate: 7.35%

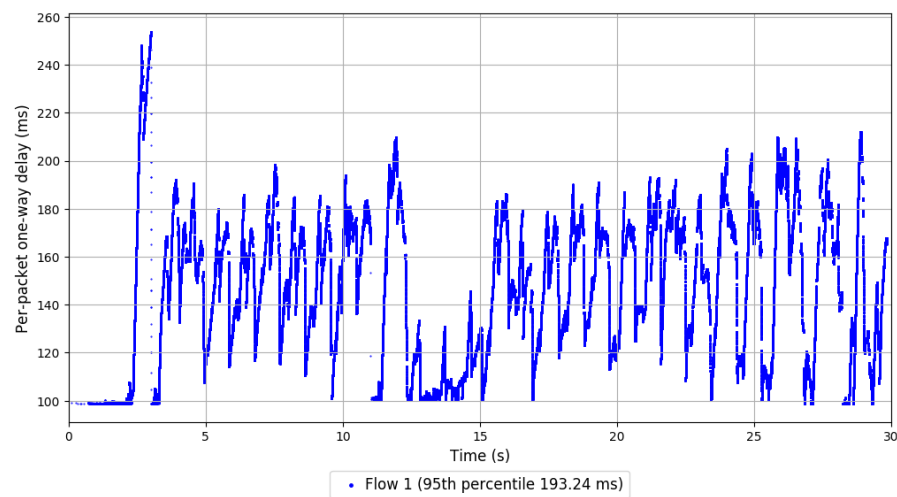
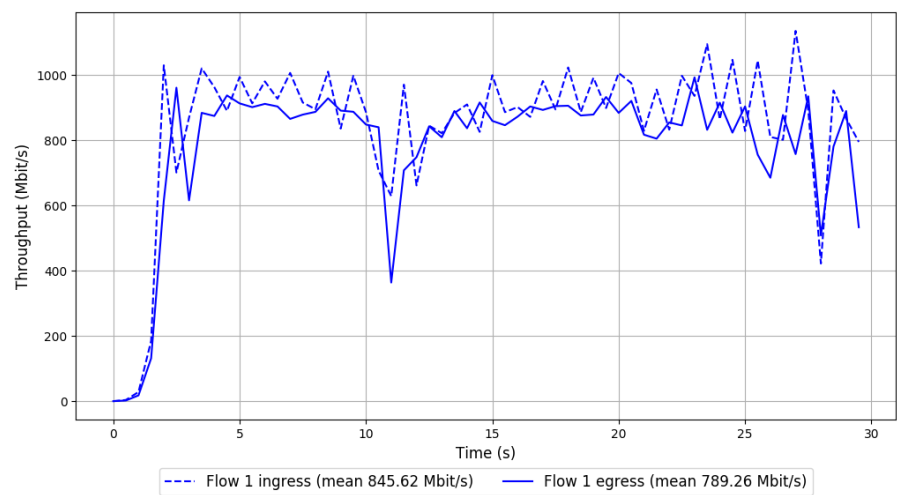
-- Flow 1:

Average throughput: 789.26 Mbit/s

95th percentile per-packet one-way delay: 193.239 ms

Loss rate: 7.35%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-03 01:18:32

End at: 2018-04-03 01:19:02

Below is generated by plot.py at 2018-04-03 05:35:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 787.52 Mbit/s

95th percentile per-packet one-way delay: 246.441 ms

Loss rate: 6.09%

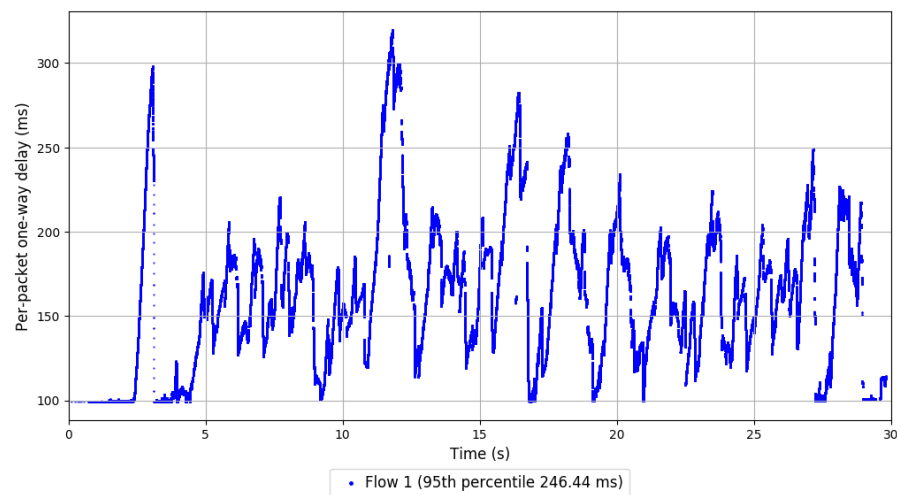
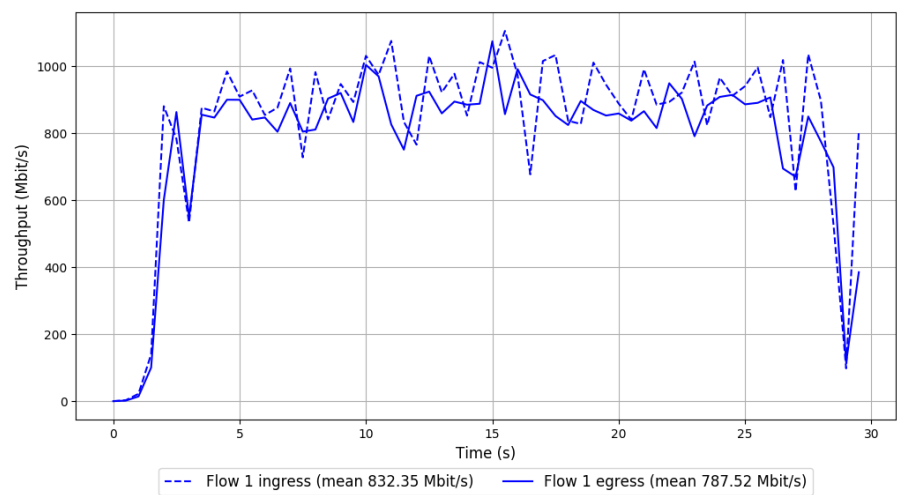
-- Flow 1:

Average throughput: 787.52 Mbit/s

95th percentile per-packet one-way delay: 246.441 ms

Loss rate: 6.09%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-03 01:34:05

End at: 2018-04-03 01:34:36

Below is generated by plot.py at 2018-04-03 05:37:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.55 Mbit/s

95th percentile per-packet one-way delay: 188.423 ms

Loss rate: 3.56%

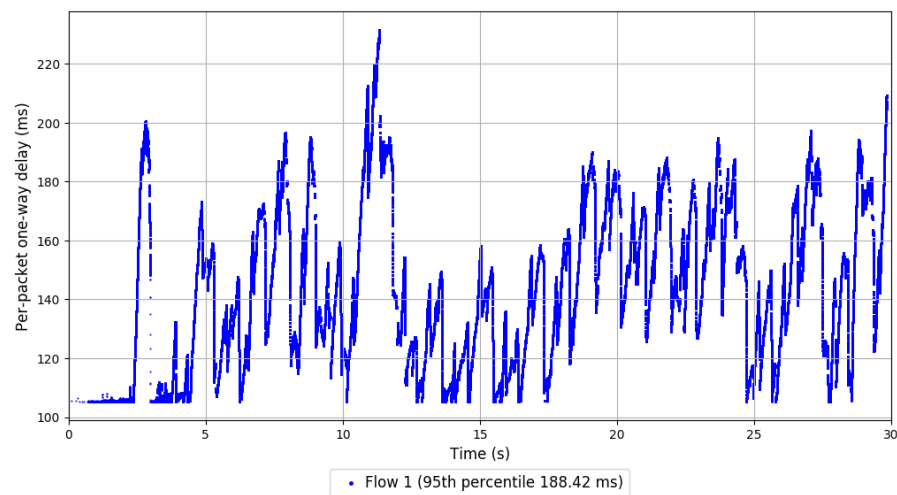
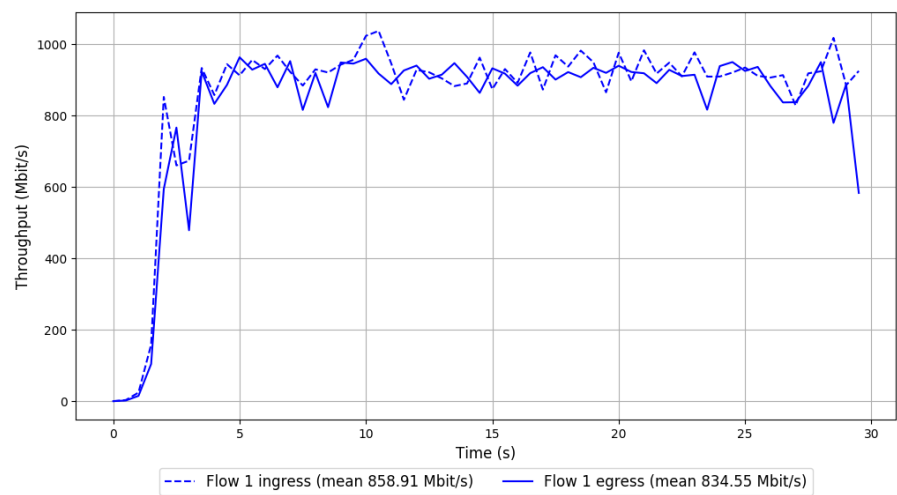
-- Flow 1:

Average throughput: 834.55 Mbit/s

95th percentile per-packet one-way delay: 188.423 ms

Loss rate: 3.56%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-03 01:49:26

End at: 2018-04-03 01:49:56

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.13 Mbit/s

95th percentile per-packet one-way delay: 239.911 ms

Loss rate: 7.23%

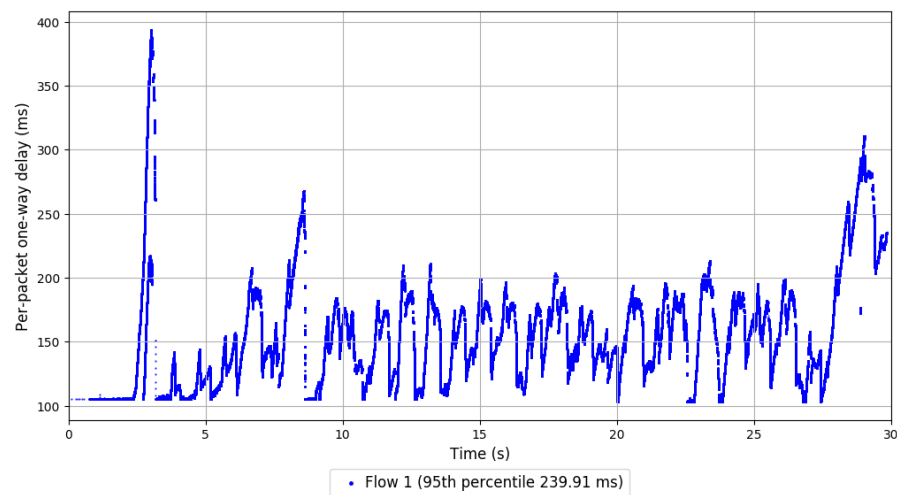
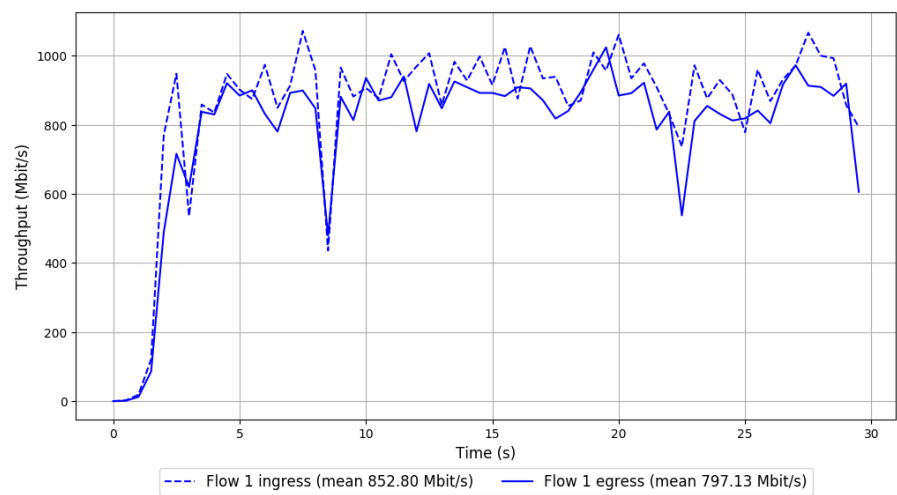
-- Flow 1:

Average throughput: 797.13 Mbit/s

95th percentile per-packet one-way delay: 239.911 ms

Loss rate: 7.23%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-03 02:04:43

End at: 2018-04-03 02:05:13

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.64 Mbit/s

95th percentile per-packet one-way delay: 258.266 ms

Loss rate: 7.31%

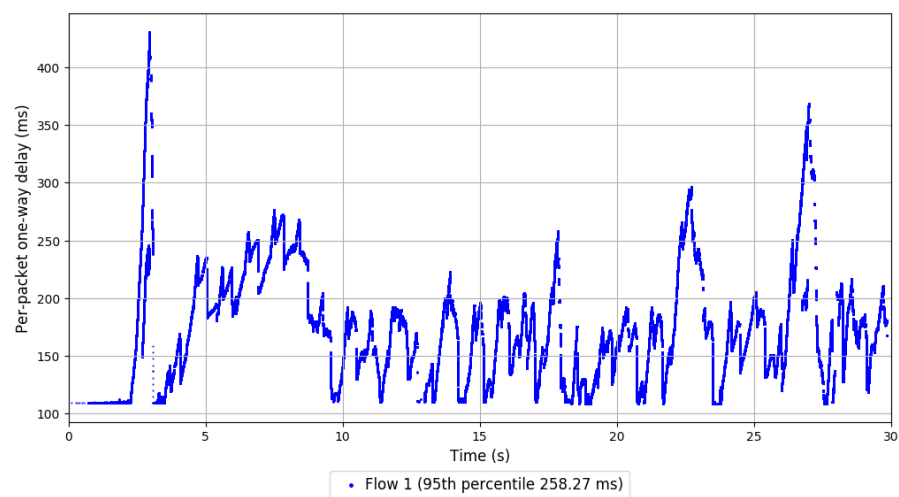
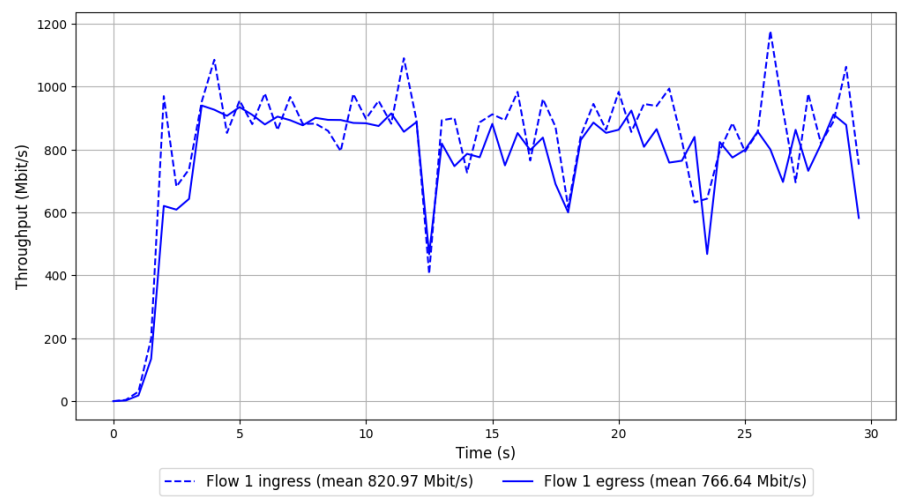
-- Flow 1:

Average throughput: 766.64 Mbit/s

95th percentile per-packet one-way delay: 258.266 ms

Loss rate: 7.31%

Run 10: Report of FillP — Data Link

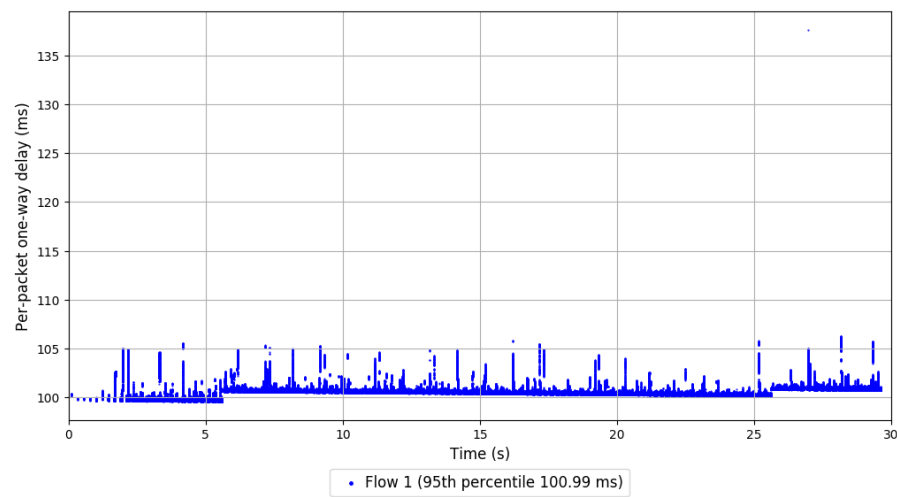
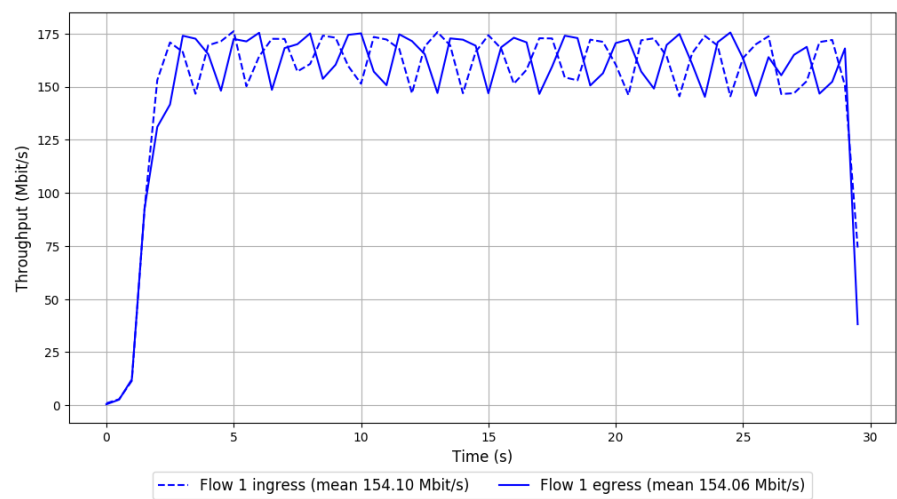


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-02 23:48:55
End at: 2018-04-02 23:49:25

# Below is generated by plot.py at 2018-04-03 05:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 154.06 Mbit/s
95th percentile per-packet one-way delay: 100.990 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 154.06 Mbit/s
95th percentile per-packet one-way delay: 100.990 ms
Loss rate: 0.78%
```

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

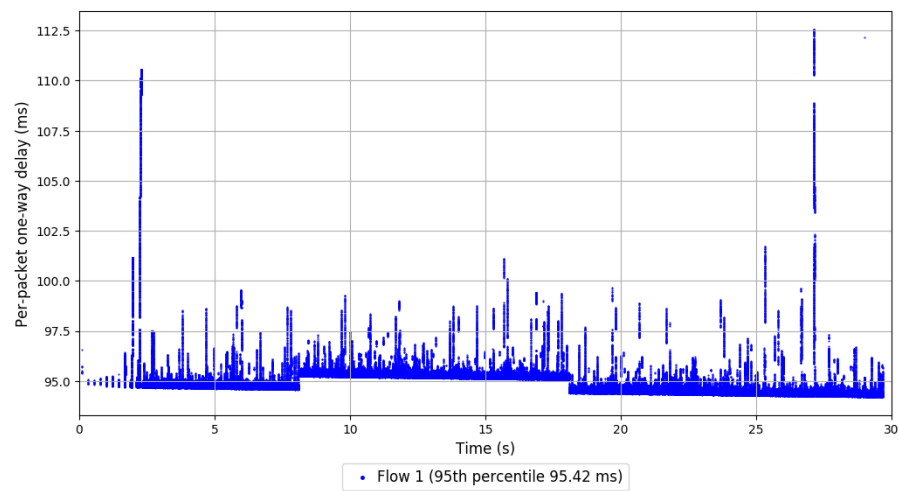
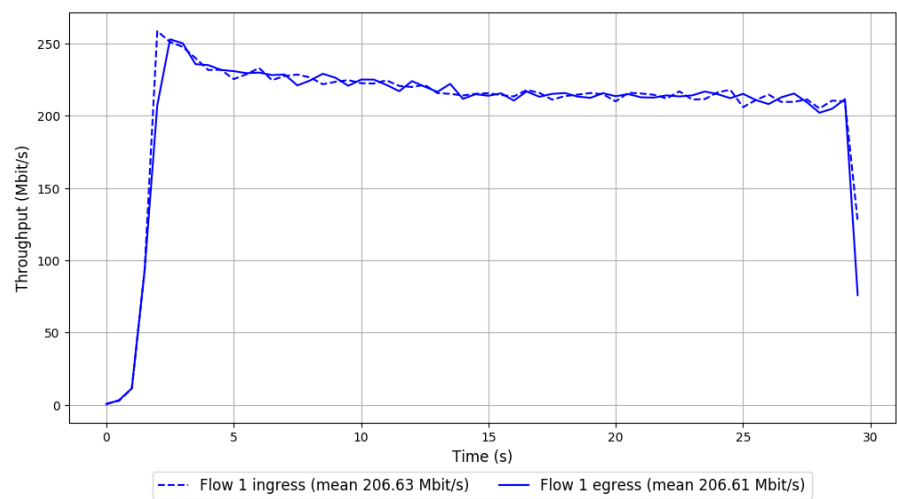


```
Run 2: Statistics of Indigo-1-32

Start at: 2018-04-03 00:04:33
End at: 2018-04-03 00:05:03

# Below is generated by plot.py at 2018-04-03 05:48:45
# Datalink statistics
-- Total of 1 flow:
Average throughput: 206.61 Mbit/s
95th percentile per-packet one-way delay: 95.424 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 206.61 Mbit/s
95th percentile per-packet one-way delay: 95.424 ms
Loss rate: 0.76%
```

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-03 00:19:55

End at: 2018-04-03 00:20:25

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.41 Mbit/s

95th percentile per-packet one-way delay: 95.418 ms

Loss rate: 0.76%

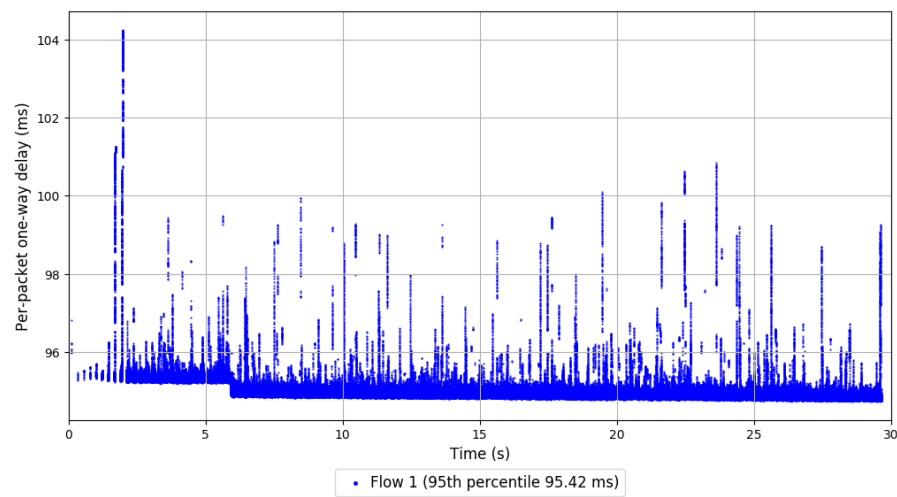
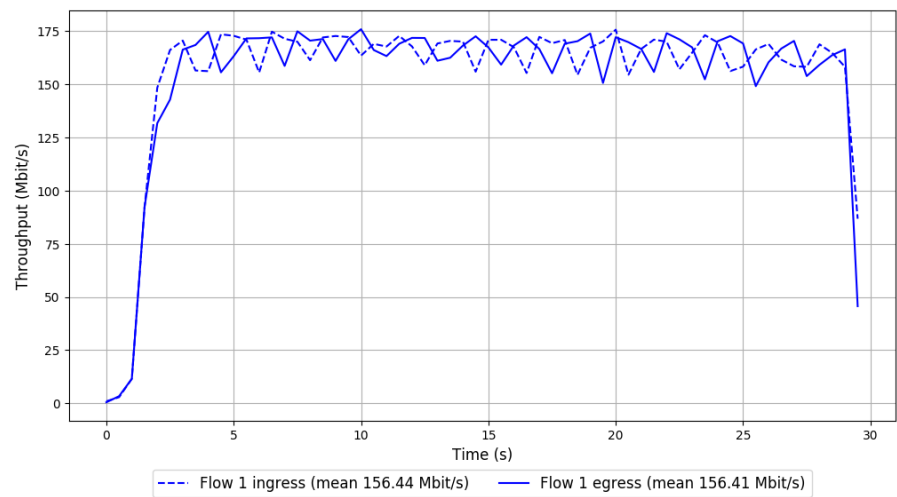
-- Flow 1:

Average throughput: 156.41 Mbit/s

95th percentile per-packet one-way delay: 95.418 ms

Loss rate: 0.76%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-03 00:35:22

End at: 2018-04-03 00:35:52

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 86.351 ms

Loss rate: 0.78%

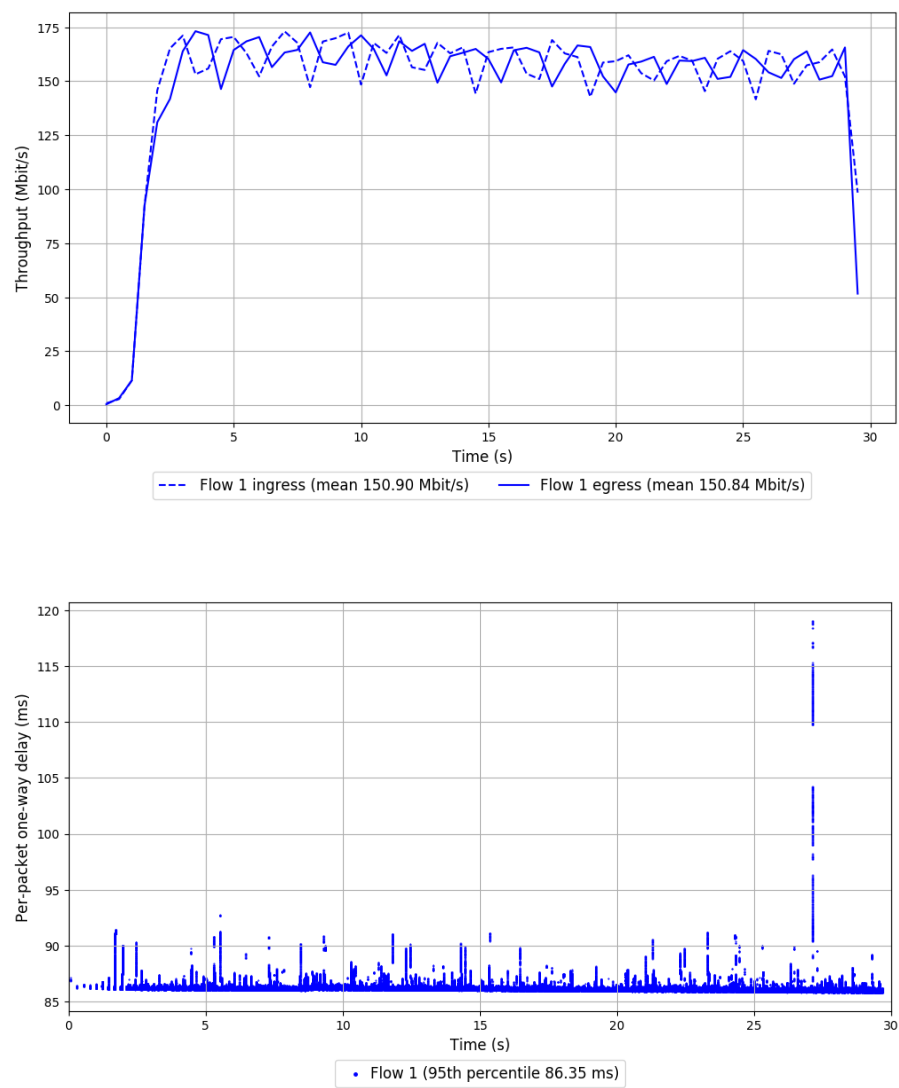
-- Flow 1:

Average throughput: 150.84 Mbit/s

95th percentile per-packet one-way delay: 86.351 ms

Loss rate: 0.78%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-03 00:50:43

End at: 2018-04-03 00:51:13

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.44 Mbit/s

95th percentile per-packet one-way delay: 96.124 ms

Loss rate: 0.76%

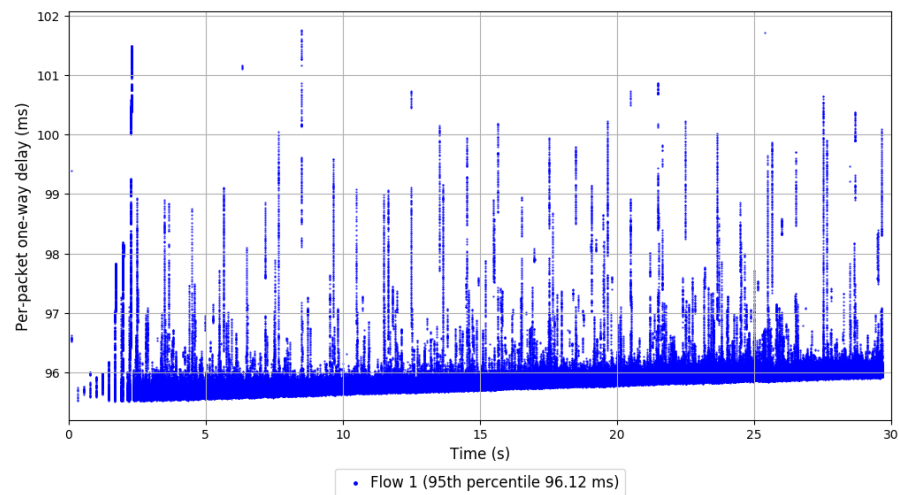
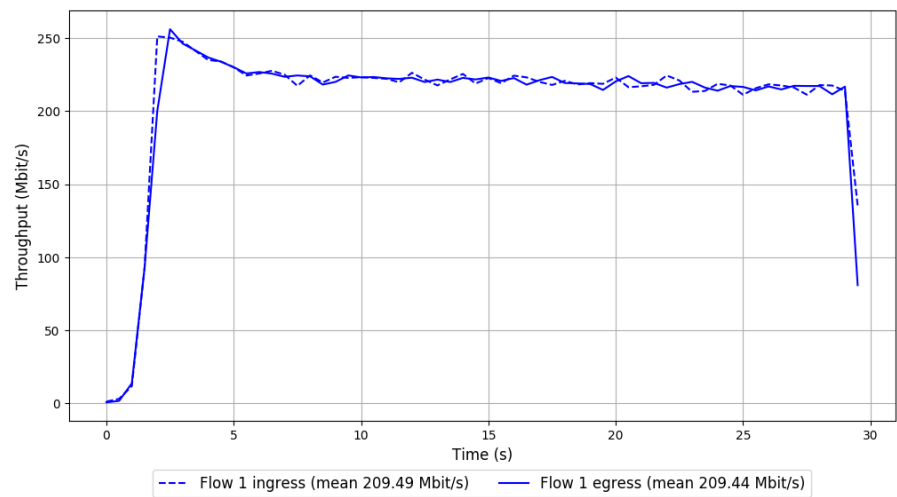
-- Flow 1:

Average throughput: 209.44 Mbit/s

95th percentile per-packet one-way delay: 96.124 ms

Loss rate: 0.76%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-03 01:06:08

End at: 2018-04-03 01:06:38

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.75 Mbit/s

95th percentile per-packet one-way delay: 100.958 ms

Loss rate: 0.77%

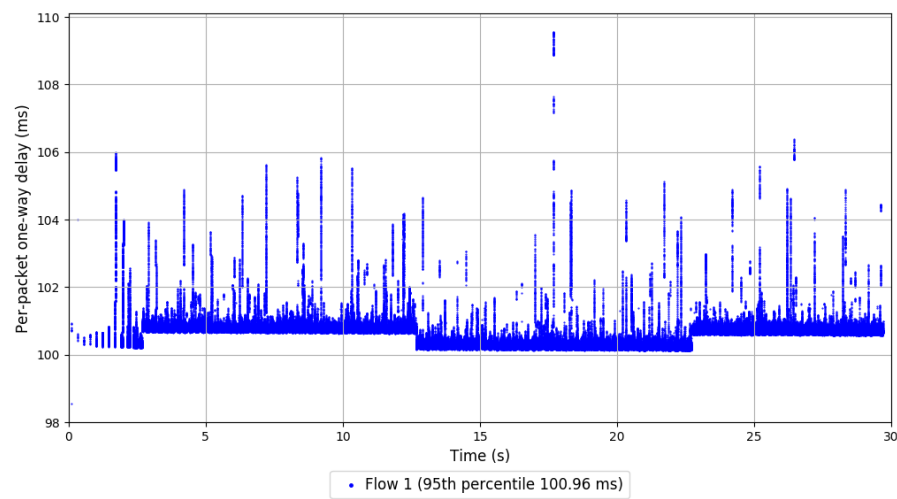
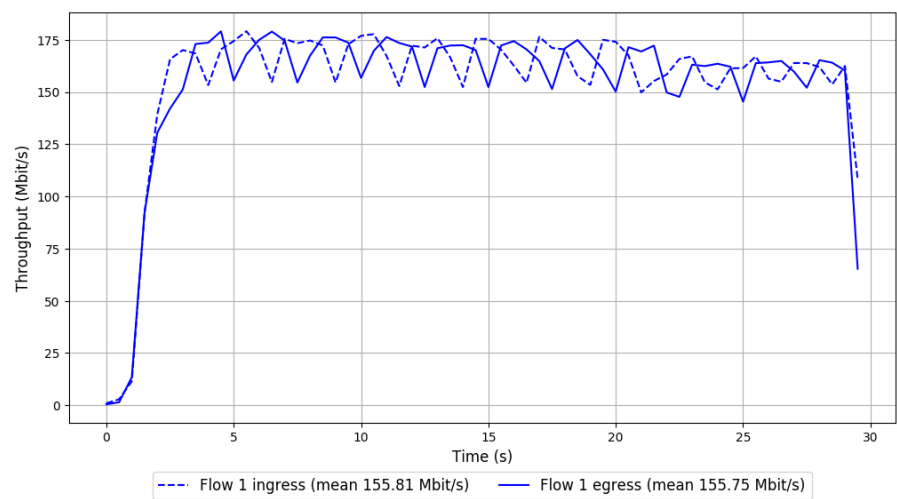
-- Flow 1:

Average throughput: 155.75 Mbit/s

95th percentile per-packet one-way delay: 100.958 ms

Loss rate: 0.77%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-03 01:21:15

End at: 2018-04-03 01:21:45

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.99 Mbit/s

95th percentile per-packet one-way delay: 103.553 ms

Loss rate: 0.80%

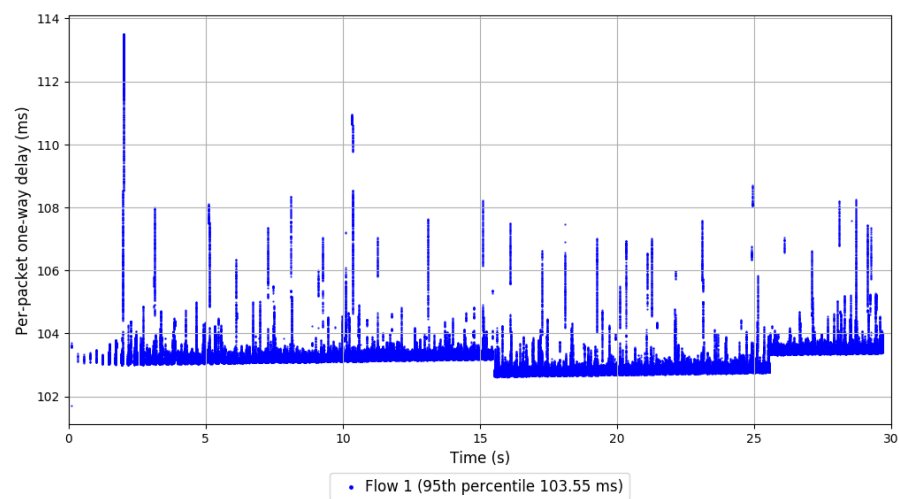
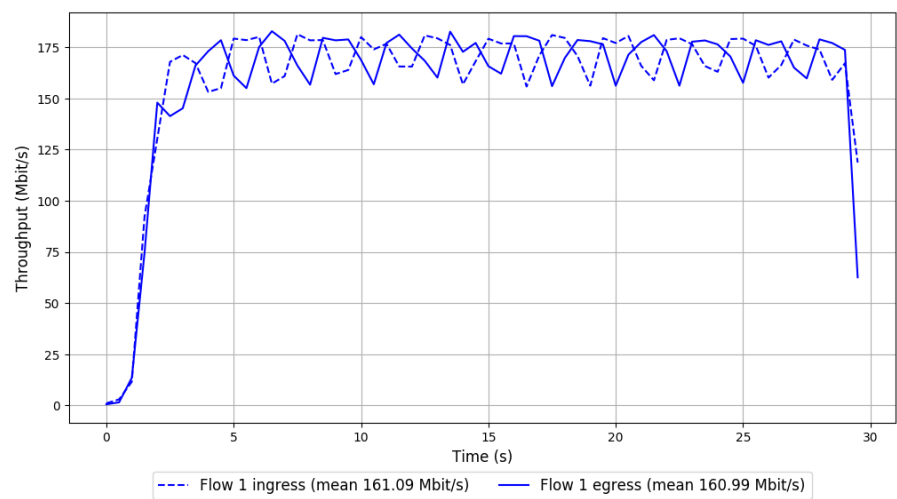
-- Flow 1:

Average throughput: 160.99 Mbit/s

95th percentile per-packet one-way delay: 103.553 ms

Loss rate: 0.80%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-03 01:36:50

End at: 2018-04-03 01:37:20

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 107.473 ms

Loss rate: 0.79%

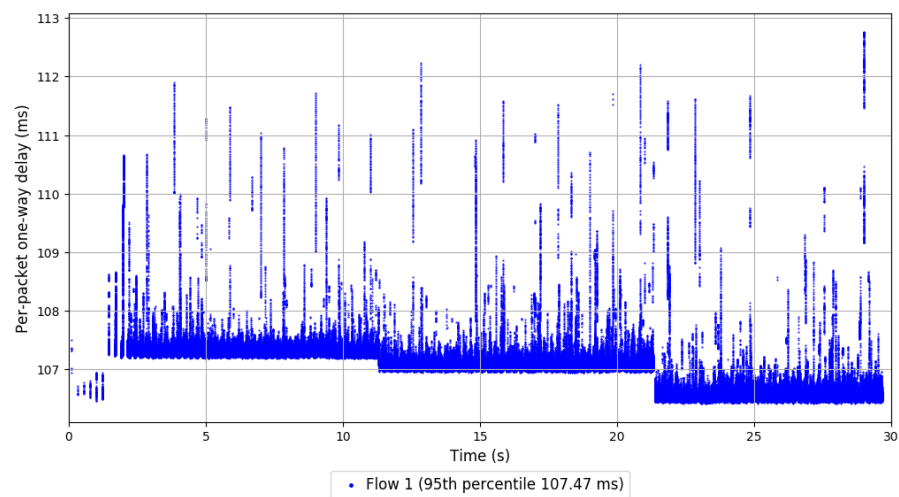
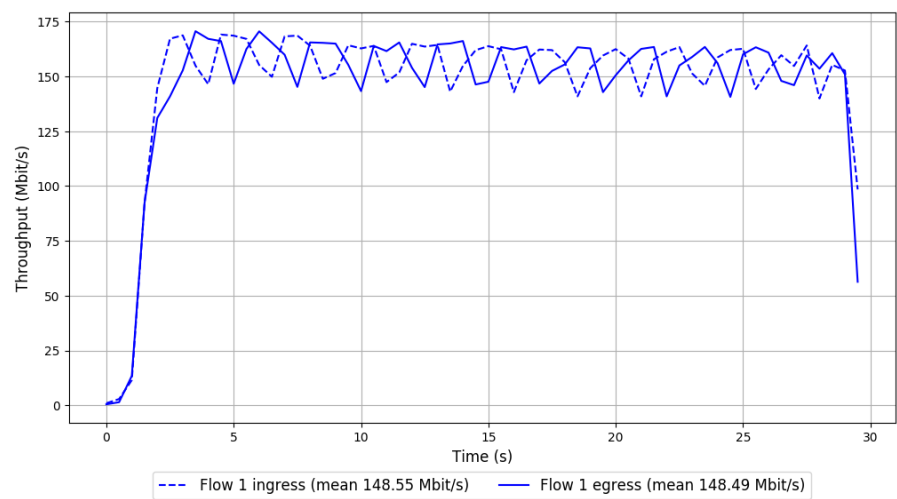
-- Flow 1:

Average throughput: 148.49 Mbit/s

95th percentile per-packet one-way delay: 107.473 ms

Loss rate: 0.79%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-03 01:52:07

End at: 2018-04-03 01:52:37

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 151.59 Mbit/s

95th percentile per-packet one-way delay: 106.536 ms

Loss rate: 0.79%

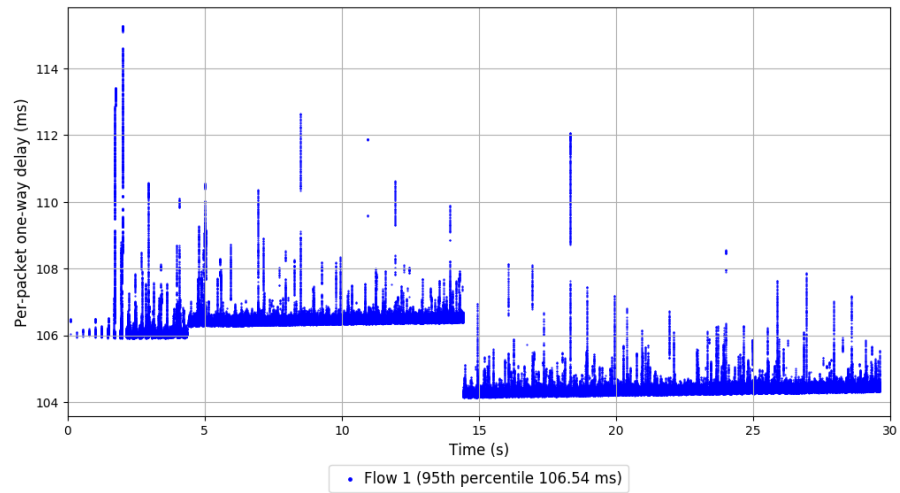
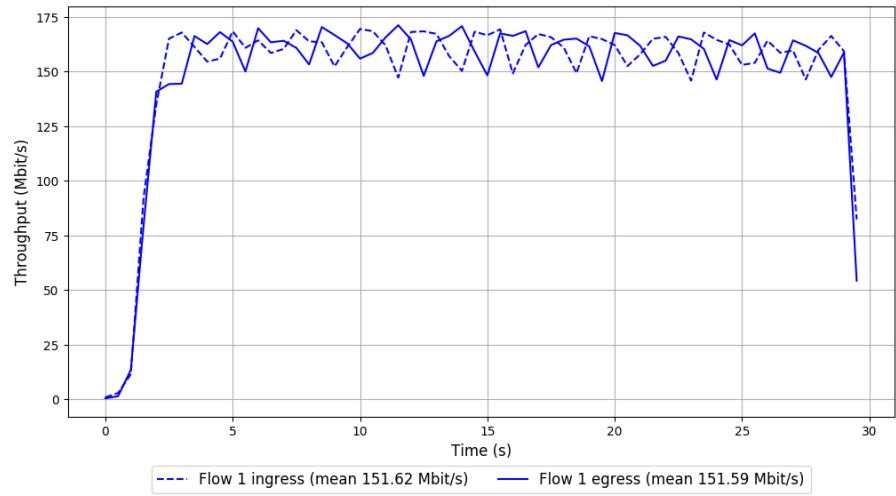
-- Flow 1:

Average throughput: 151.59 Mbit/s

95th percentile per-packet one-way delay: 106.536 ms

Loss rate: 0.79%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-03 02:07:23

End at: 2018-04-03 02:07:53

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 110.627 ms

Loss rate: 0.72%

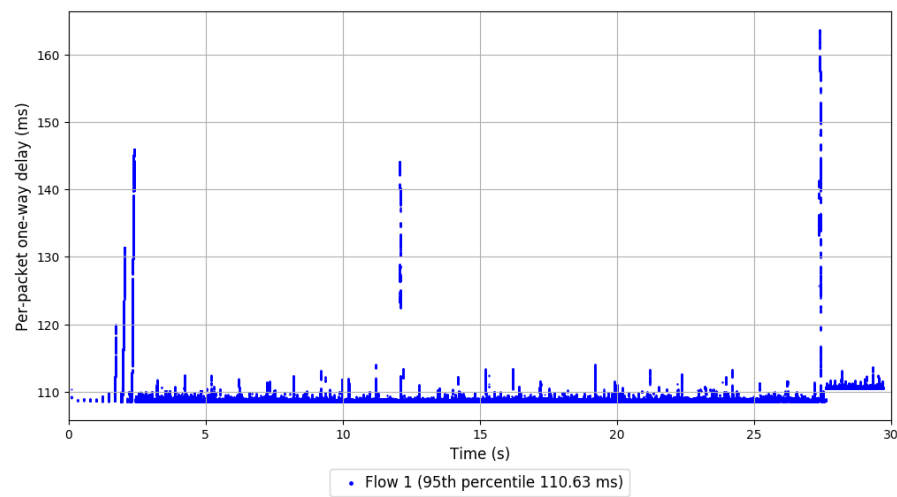
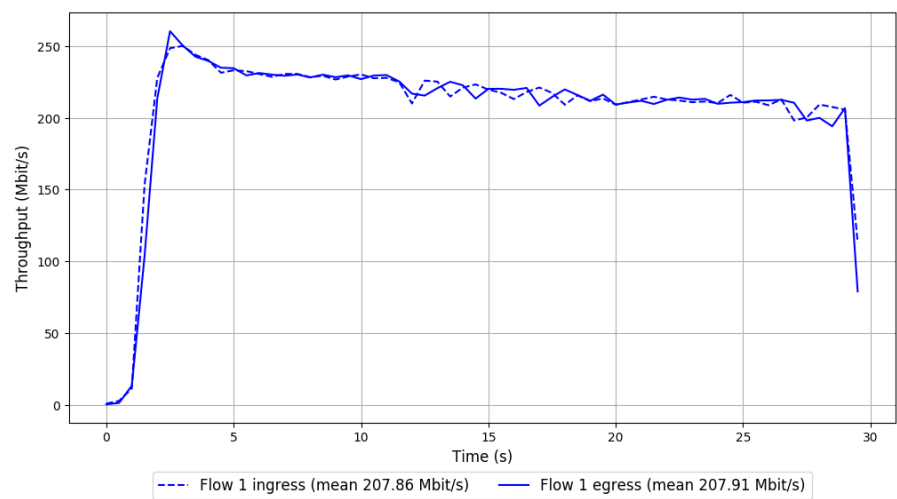
-- Flow 1:

Average throughput: 207.91 Mbit/s

95th percentile per-packet one-way delay: 110.627 ms

Loss rate: 0.72%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-02 23:40:37

End at: 2018-04-02 23:41:07

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.20 Mbit/s

95th percentile per-packet one-way delay: 112.362 ms

Loss rate: 0.94%

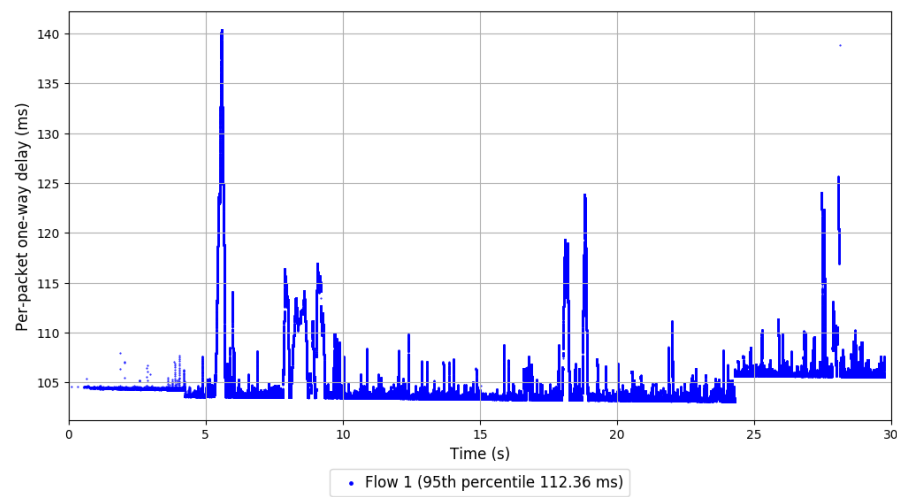
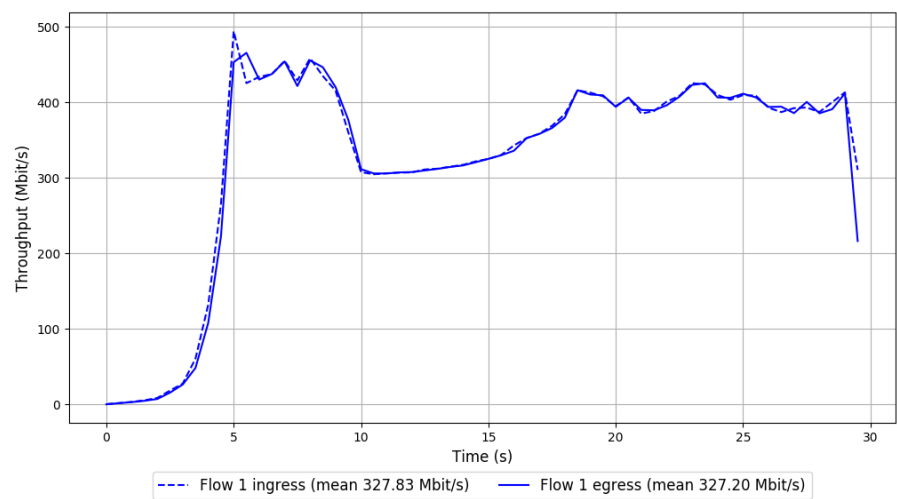
-- Flow 1:

Average throughput: 327.20 Mbit/s

95th percentile per-packet one-way delay: 112.362 ms

Loss rate: 0.94%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-02 23:56:05

End at: 2018-04-02 23:56:35

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.64 Mbit/s

95th percentile per-packet one-way delay: 104.537 ms

Loss rate: 0.85%

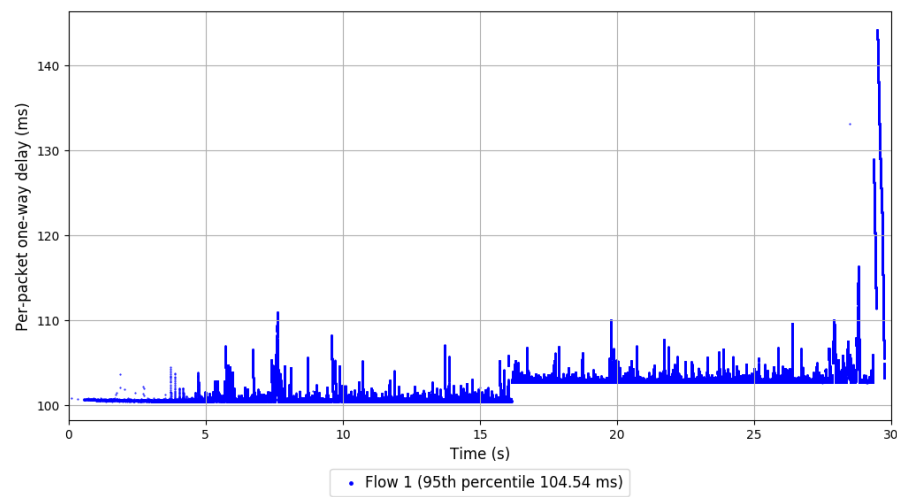
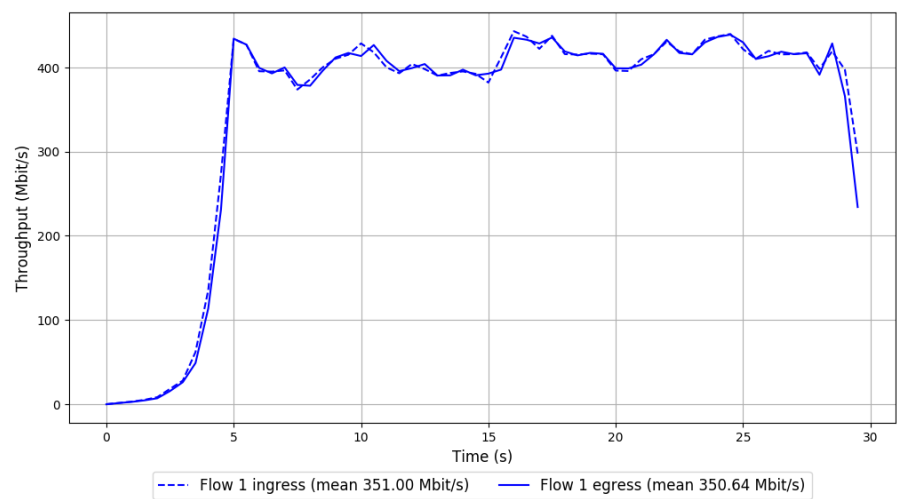
-- Flow 1:

Average throughput: 350.64 Mbit/s

95th percentile per-packet one-way delay: 104.537 ms

Loss rate: 0.85%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-03 00:11:29

End at: 2018-04-03 00:11:59

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 329.66 Mbit/s

95th percentile per-packet one-way delay: 125.829 ms

Loss rate: 0.82%

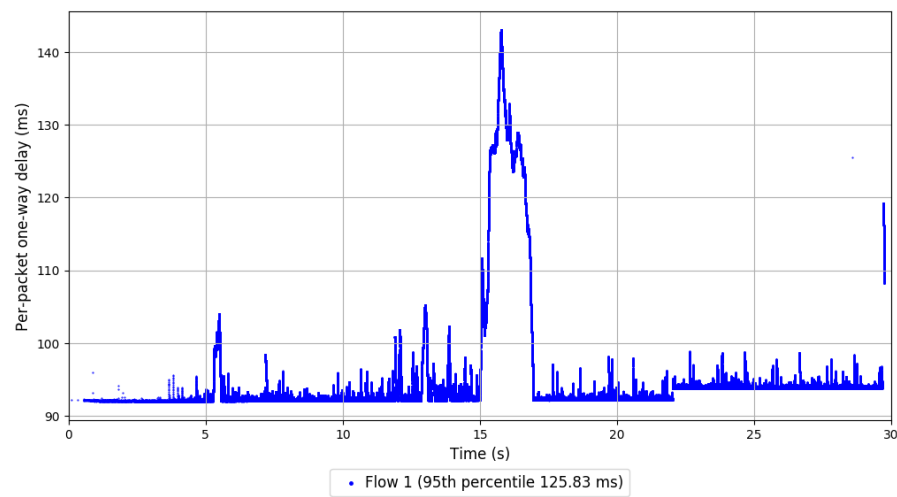
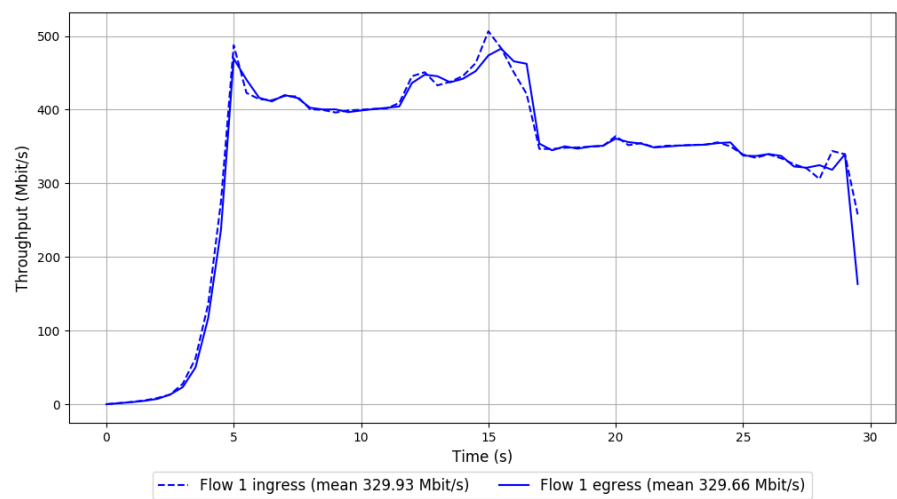
-- Flow 1:

Average throughput: 329.66 Mbit/s

95th percentile per-packet one-way delay: 125.829 ms

Loss rate: 0.82%

Run 3: Report of Vivace-latency — Data Link



Run 4: Statistics of Vivace-latency

Start at: 2018-04-03 00:27:05

End at: 2018-04-03 00:27:36

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.44 Mbit/s

95th percentile per-packet one-way delay: 97.298 ms

Loss rate: 1.00%

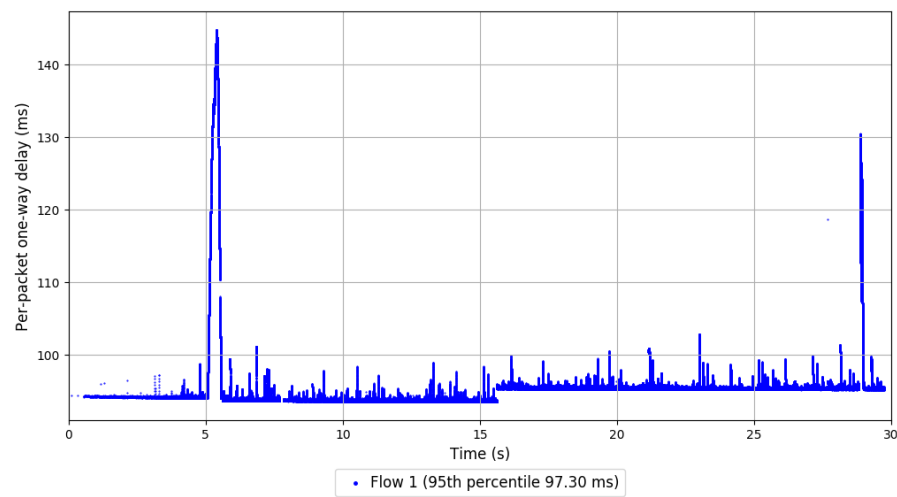
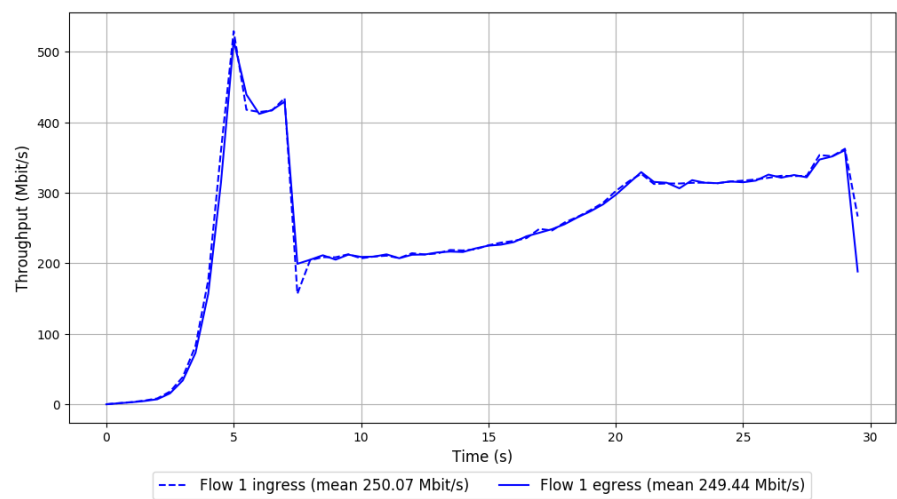
-- Flow 1:

Average throughput: 249.44 Mbit/s

95th percentile per-packet one-way delay: 97.298 ms

Loss rate: 1.00%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-03 00:42:29

End at: 2018-04-03 00:42:59

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 189.91 Mbit/s

95th percentile per-packet one-way delay: 83.172 ms

Loss rate: 0.88%

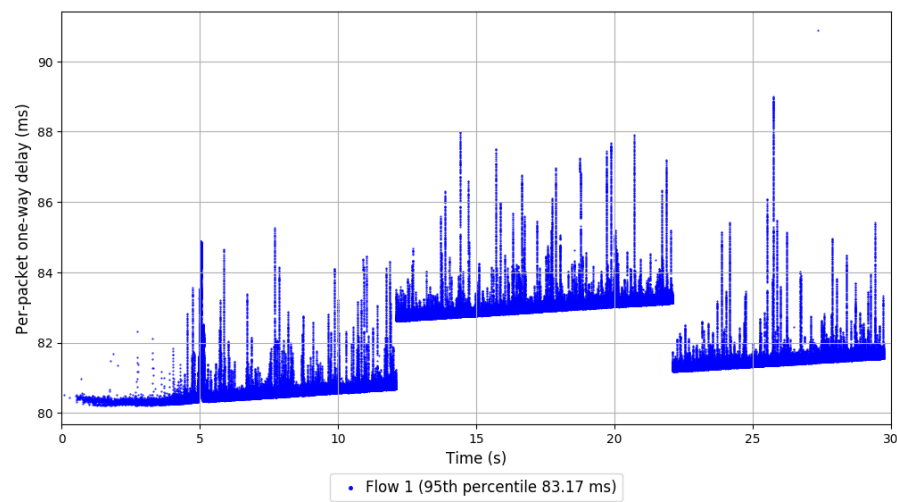
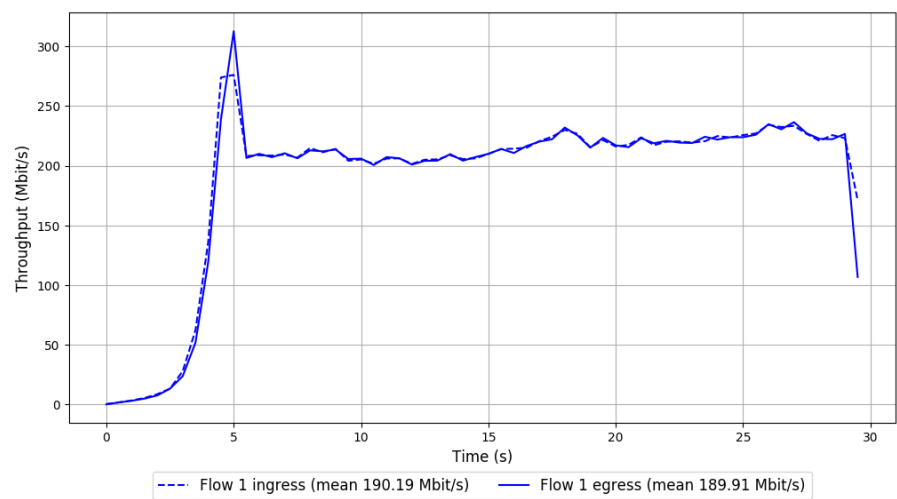
-- Flow 1:

Average throughput: 189.91 Mbit/s

95th percentile per-packet one-way delay: 83.172 ms

Loss rate: 0.88%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-03 00:57:44

End at: 2018-04-03 00:58:14

Below is generated by plot.py at 2018-04-03 05:48:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.84 Mbit/s

95th percentile per-packet one-way delay: 101.829 ms

Loss rate: 1.25%

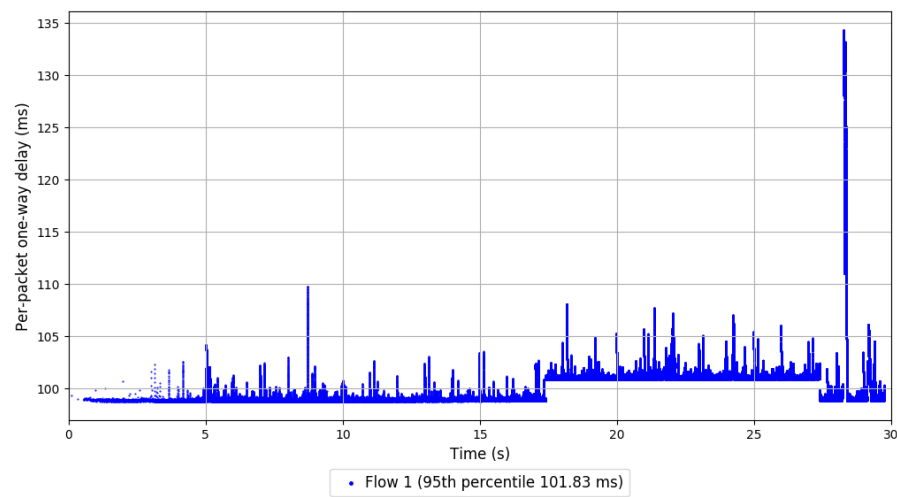
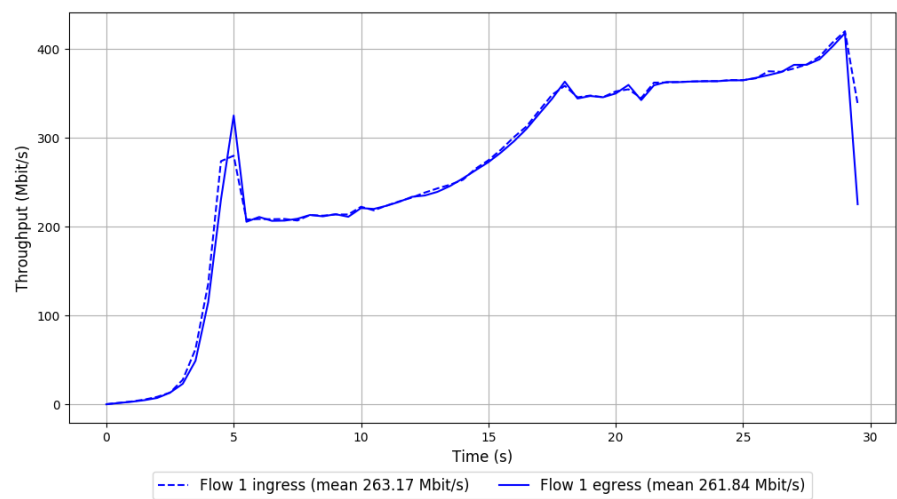
-- Flow 1:

Average throughput: 261.84 Mbit/s

95th percentile per-packet one-way delay: 101.829 ms

Loss rate: 1.25%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-03 01:12:53

End at: 2018-04-03 01:13:23

Below is generated by plot.py at 2018-04-03 05:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.69 Mbit/s

95th percentile per-packet one-way delay: 102.543 ms

Loss rate: 0.87%

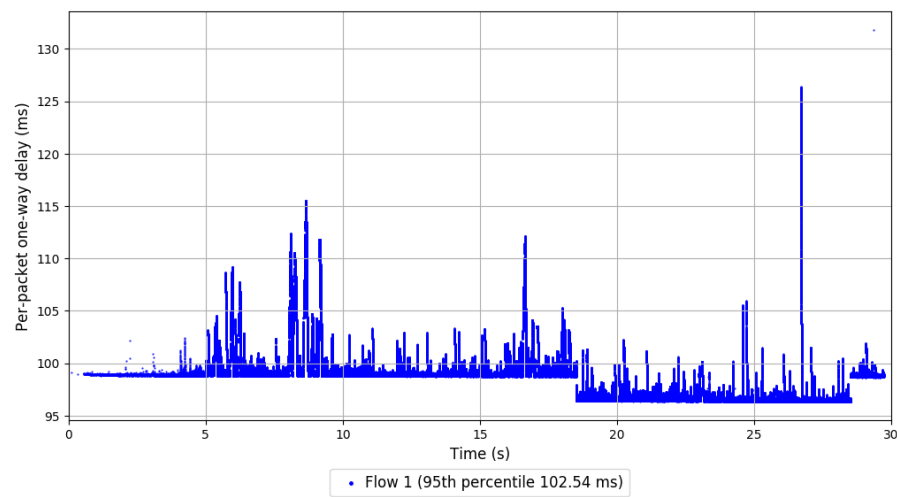
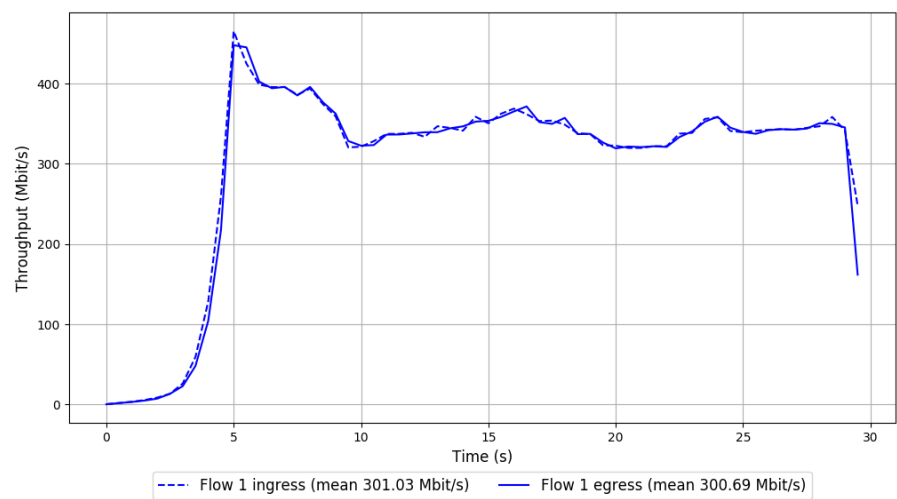
-- Flow 1:

Average throughput: 300.69 Mbit/s

95th percentile per-packet one-way delay: 102.543 ms

Loss rate: 0.87%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-03 01:28:26

End at: 2018-04-03 01:28:56

Below is generated by plot.py at 2018-04-03 05:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.61 Mbit/s

95th percentile per-packet one-way delay: 174.528 ms

Loss rate: 0.72%

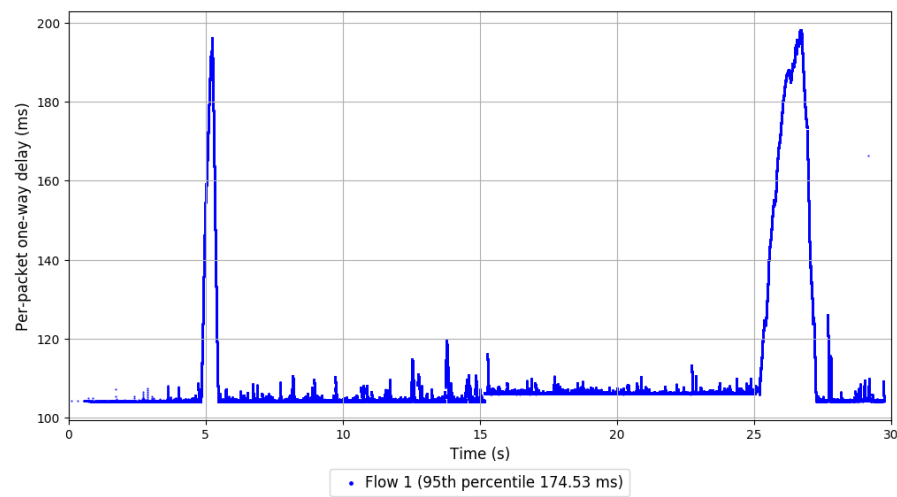
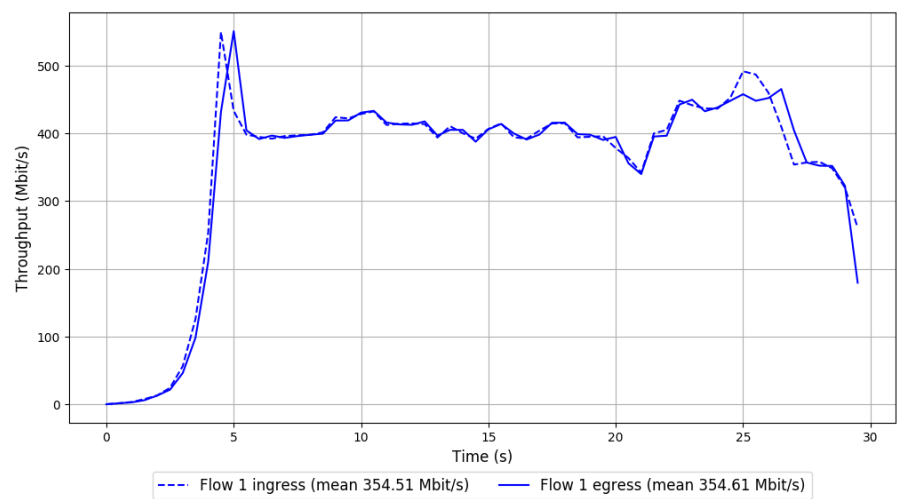
-- Flow 1:

Average throughput: 354.61 Mbit/s

95th percentile per-packet one-way delay: 174.528 ms

Loss rate: 0.72%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-03 01:43:53

End at: 2018-04-03 01:44:24

Below is generated by plot.py at 2018-04-03 05:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.92 Mbit/s

95th percentile per-packet one-way delay: 107.141 ms

Loss rate: 1.06%

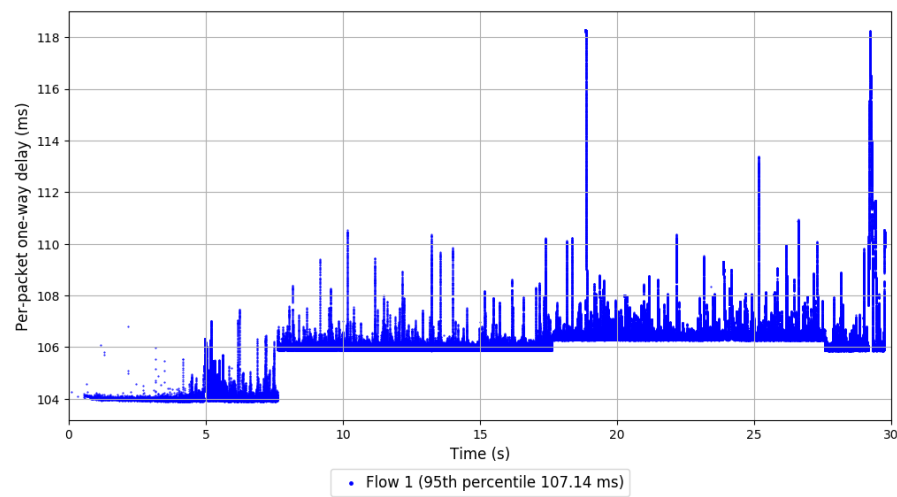
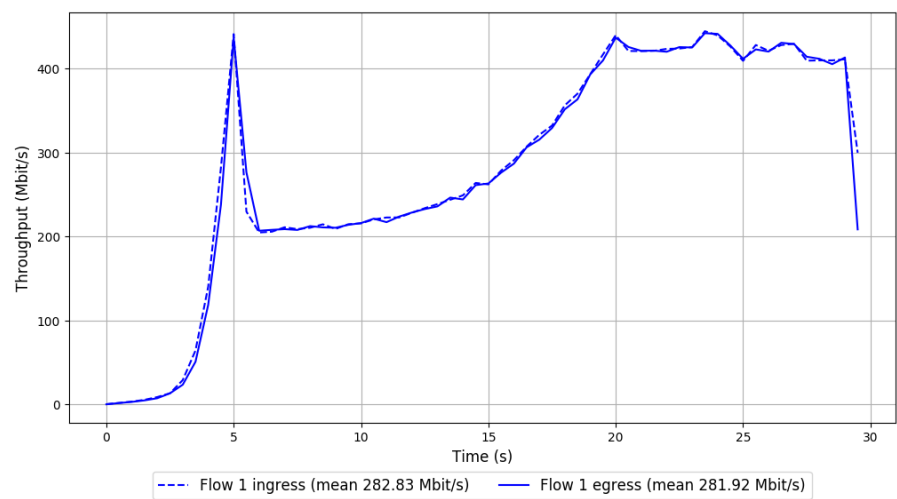
-- Flow 1:

Average throughput: 281.92 Mbit/s

95th percentile per-packet one-way delay: 107.141 ms

Loss rate: 1.06%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-03 01:59:04

End at: 2018-04-03 01:59:34

Below is generated by plot.py at 2018-04-03 05:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.23 Mbit/s

95th percentile per-packet one-way delay: 109.364 ms

Loss rate: 0.84%

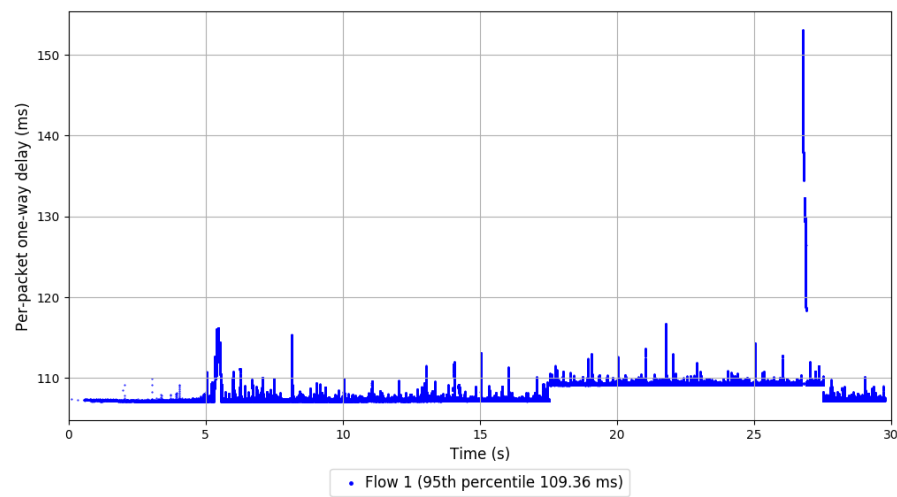
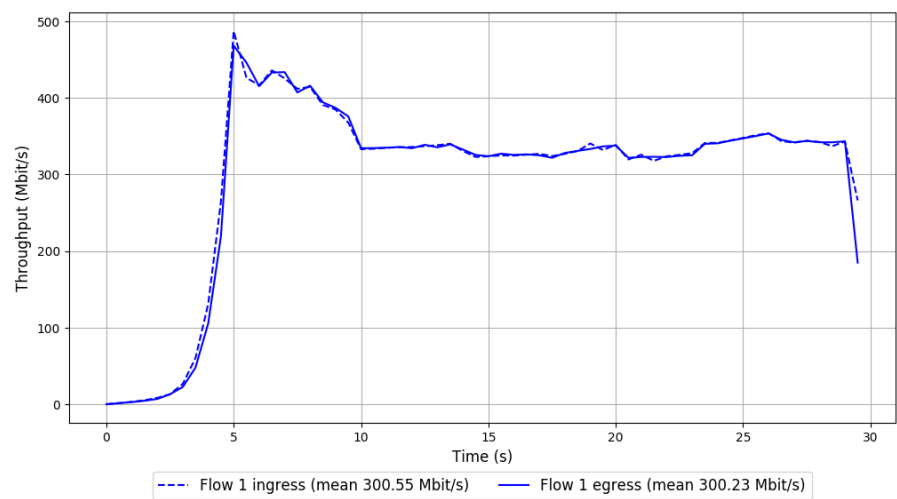
-- Flow 1:

Average throughput: 300.23 Mbit/s

95th percentile per-packet one-way delay: 109.364 ms

Loss rate: 0.84%

Run 10: Report of Vivace-latency — Data Link

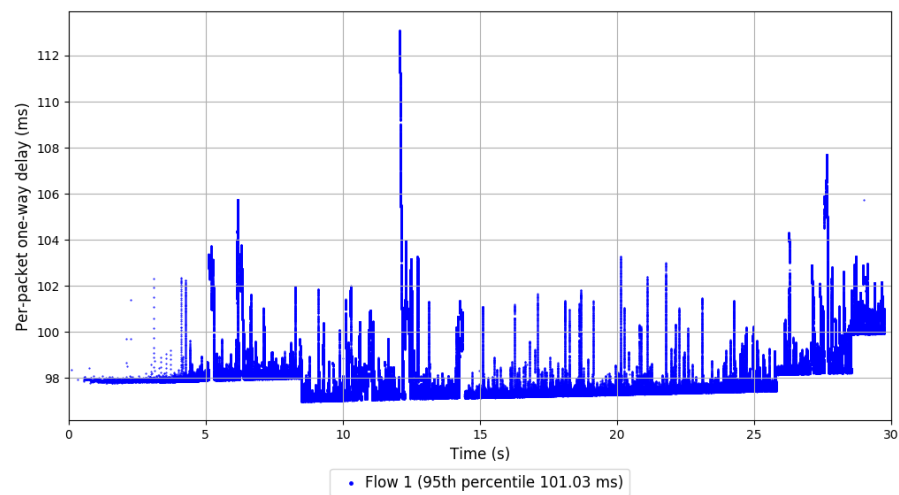
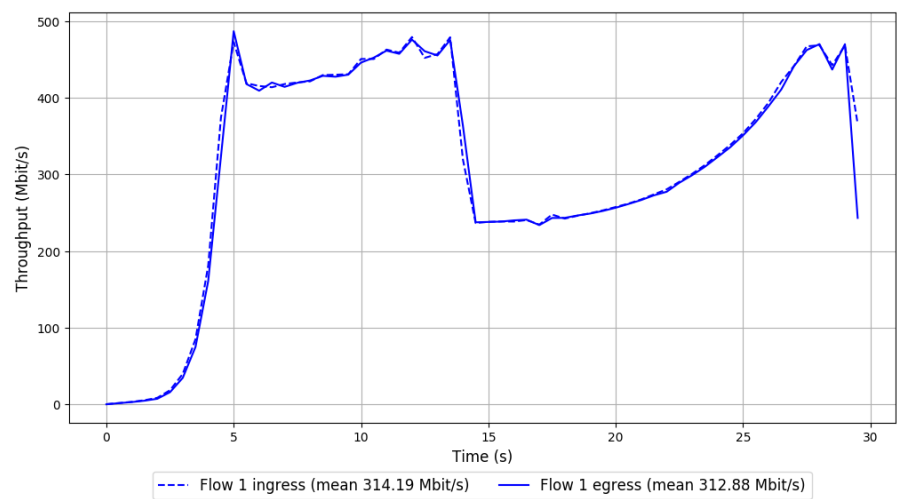


```
Run 1: Statistics of Vivace-loss

Start at: 2018-04-02 23:51:33
End at: 2018-04-02 23:52:03

# Below is generated by plot.py at 2018-04-03 05:51:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 312.88 Mbit/s
95th percentile per-packet one-way delay: 101.031 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 312.88 Mbit/s
95th percentile per-packet one-way delay: 101.031 ms
Loss rate: 1.16%
```

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-03 00:07:13

End at: 2018-04-03 00:07:43

Below is generated by plot.py at 2018-04-03 05:51:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.31 Mbit/s

95th percentile per-packet one-way delay: 196.391 ms

Loss rate: 0.91%

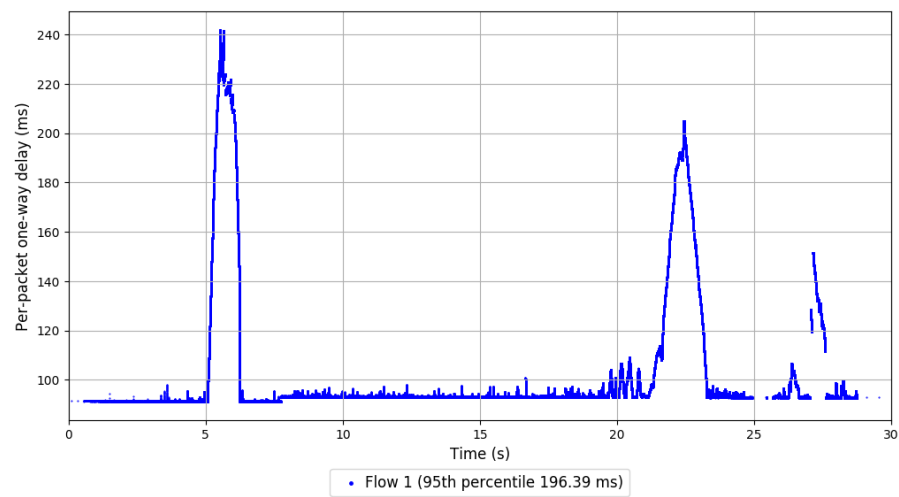
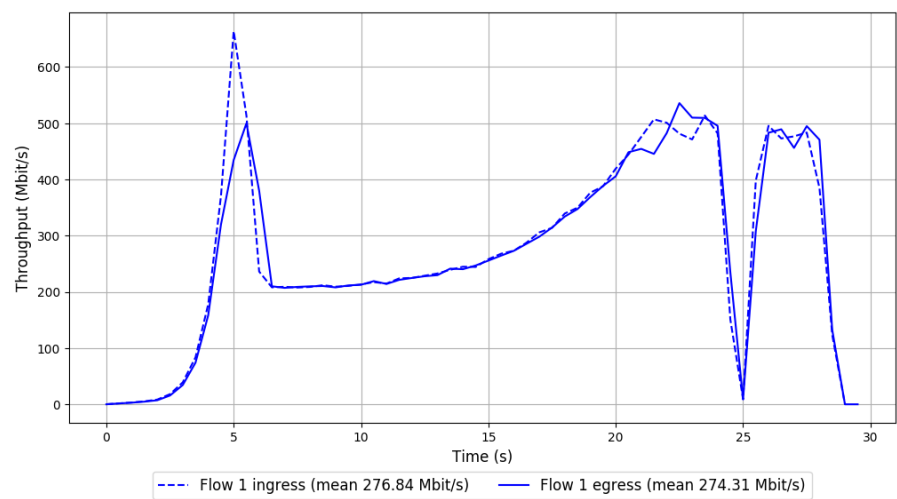
-- Flow 1:

Average throughput: 274.31 Mbit/s

95th percentile per-packet one-way delay: 196.391 ms

Loss rate: 0.91%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-03 00:22:33

End at: 2018-04-03 00:23:03

Below is generated by plot.py at 2018-04-03 05:54:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.54 Mbit/s

95th percentile per-packet one-way delay: 155.275 ms

Loss rate: 0.95%

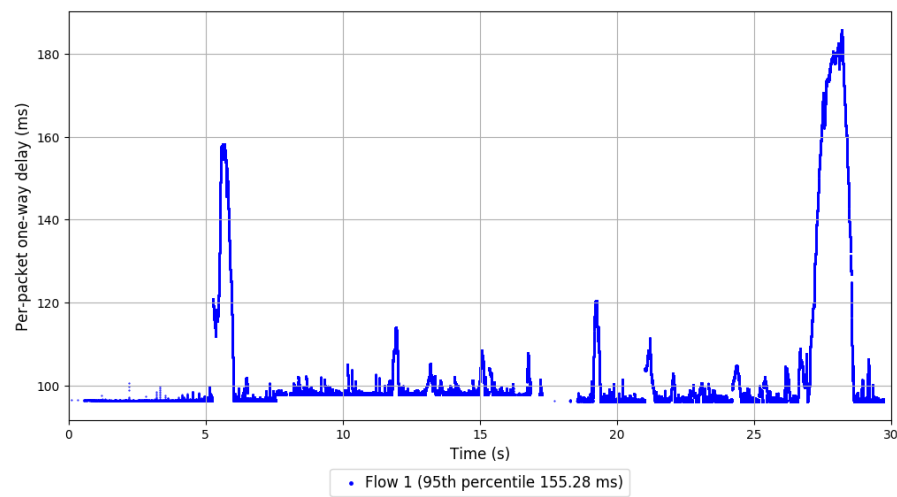
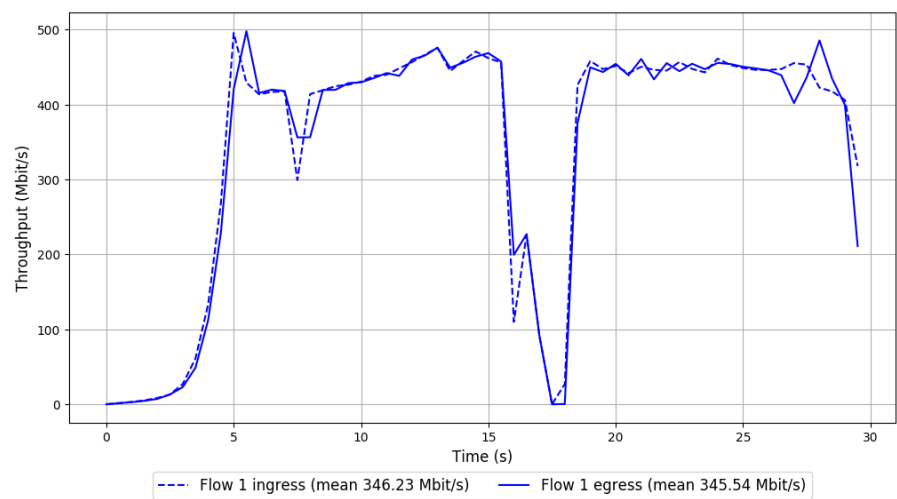
-- Flow 1:

Average throughput: 345.54 Mbit/s

95th percentile per-packet one-way delay: 155.275 ms

Loss rate: 0.95%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

Start at: 2018-04-03 00:38:01

End at: 2018-04-03 00:38:31

Below is generated by plot.py at 2018-04-03 05:55:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.06 Mbit/s

95th percentile per-packet one-way delay: 223.014 ms

Loss rate: 1.66%

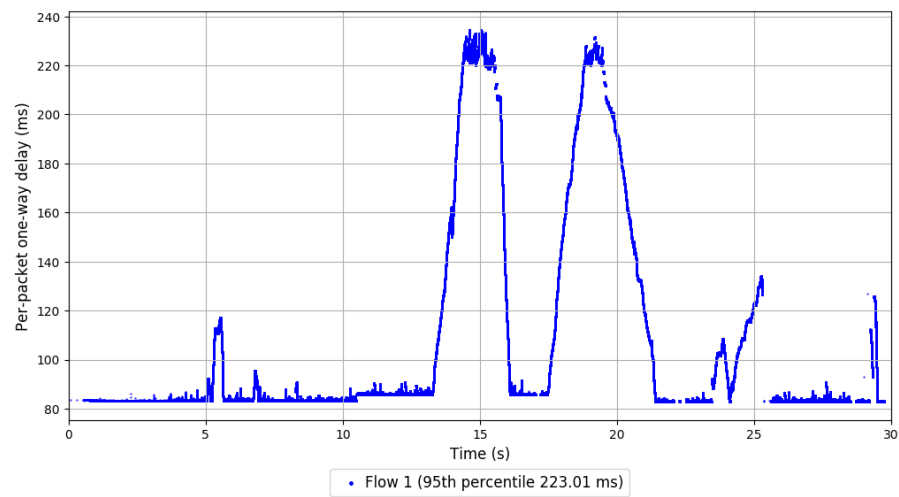
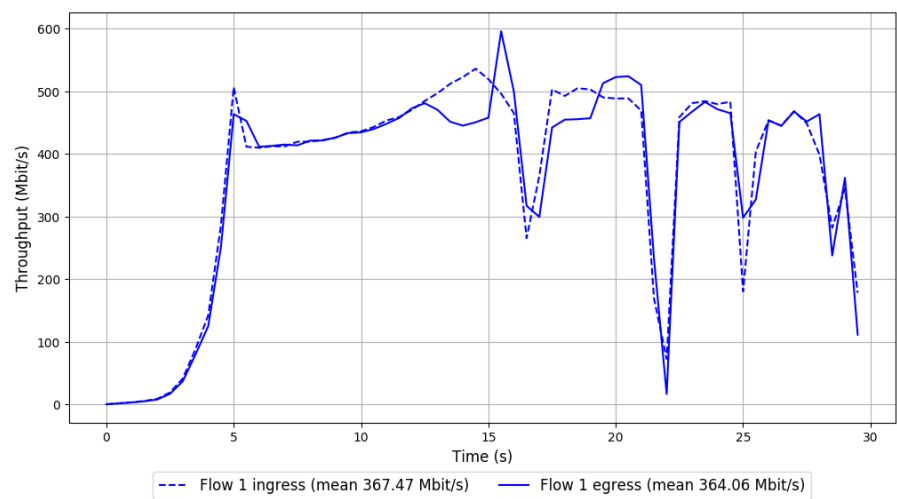
-- Flow 1:

Average throughput: 364.06 Mbit/s

95th percentile per-packet one-way delay: 223.014 ms

Loss rate: 1.66%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-03 00:53:21

End at: 2018-04-03 00:53:51

Below is generated by plot.py at 2018-04-03 05:55:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.77 Mbit/s

95th percentile per-packet one-way delay: 219.434 ms

Loss rate: 2.23%

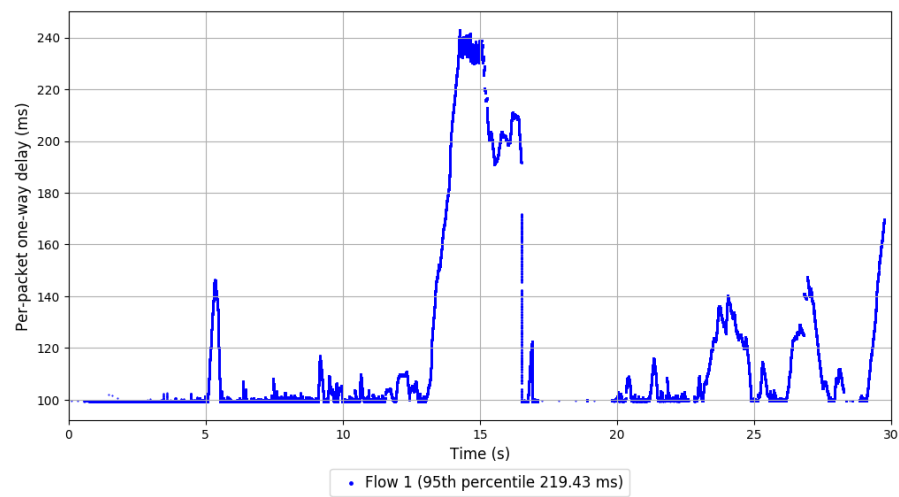
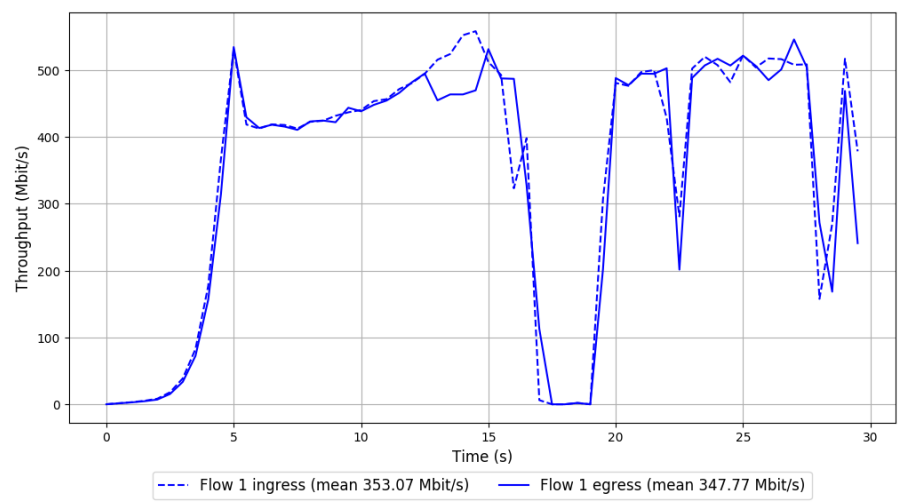
-- Flow 1:

Average throughput: 347.77 Mbit/s

95th percentile per-packet one-way delay: 219.434 ms

Loss rate: 2.23%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-03 01:08:46

End at: 2018-04-03 01:09:16

Below is generated by plot.py at 2018-04-03 05:55:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.01 Mbit/s

95th percentile per-packet one-way delay: 160.783 ms

Loss rate: 1.15%

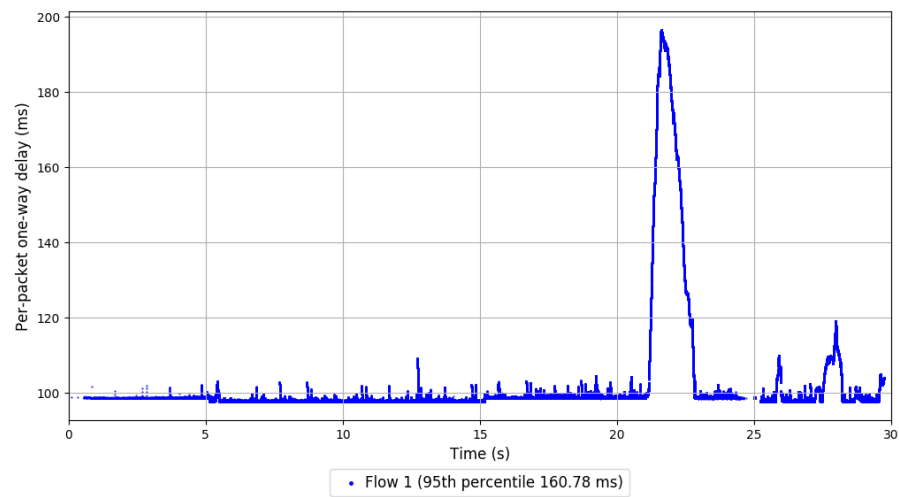
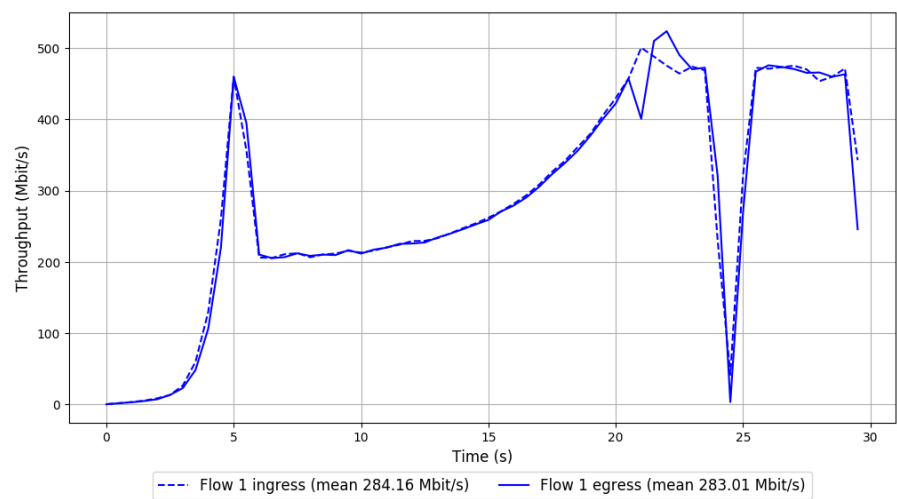
-- Flow 1:

Average throughput: 283.01 Mbit/s

95th percentile per-packet one-way delay: 160.783 ms

Loss rate: 1.15%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-03 01:23:54

End at: 2018-04-03 01:24:24

Below is generated by plot.py at 2018-04-03 05:57:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.59 Mbit/s

95th percentile per-packet one-way delay: 245.885 ms

Loss rate: 2.53%

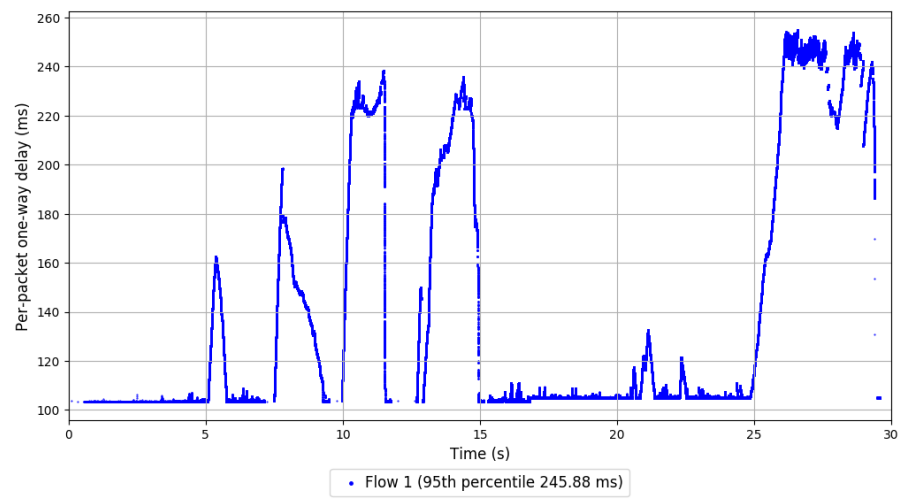
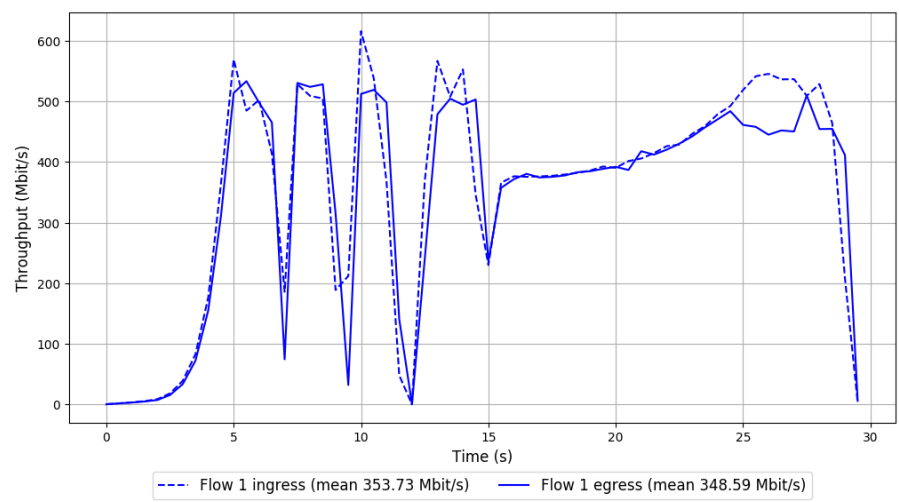
-- Flow 1:

Average throughput: 348.59 Mbit/s

95th percentile per-packet one-way delay: 245.885 ms

Loss rate: 2.53%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-03 01:39:27

End at: 2018-04-03 01:39:58

Below is generated by plot.py at 2018-04-03 05:57:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.51 Mbit/s

95th percentile per-packet one-way delay: 139.202 ms

Loss rate: 0.85%

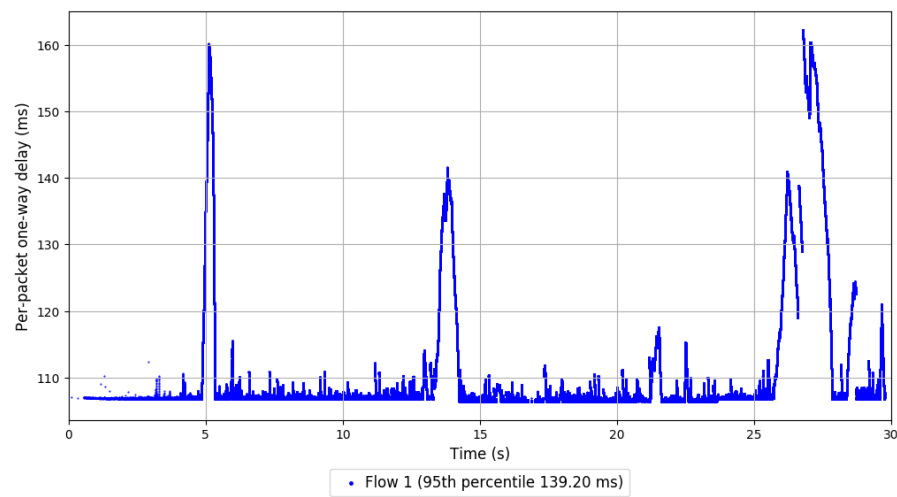
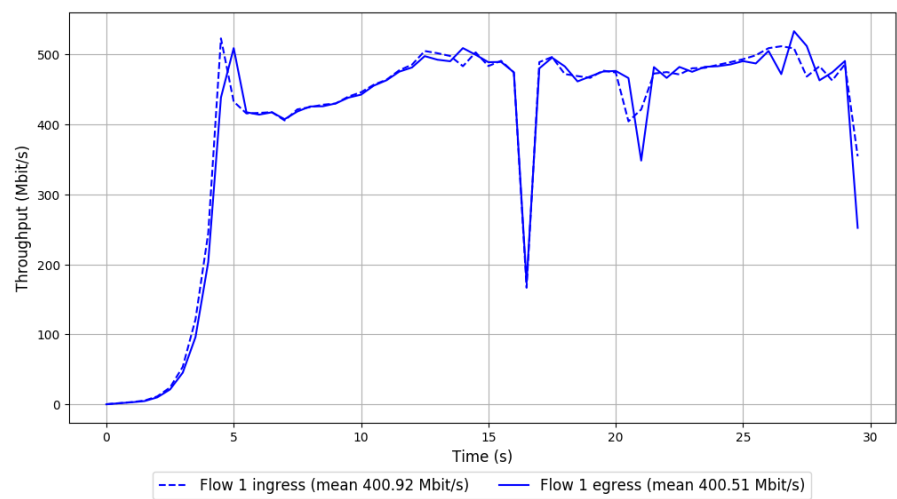
-- Flow 1:

Average throughput: 400.51 Mbit/s

95th percentile per-packet one-way delay: 139.202 ms

Loss rate: 0.85%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-03 01:54:40

End at: 2018-04-03 01:55:10

Below is generated by plot.py at 2018-04-03 05:57:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.22 Mbit/s

95th percentile per-packet one-way delay: 253.893 ms

Loss rate: 5.63%

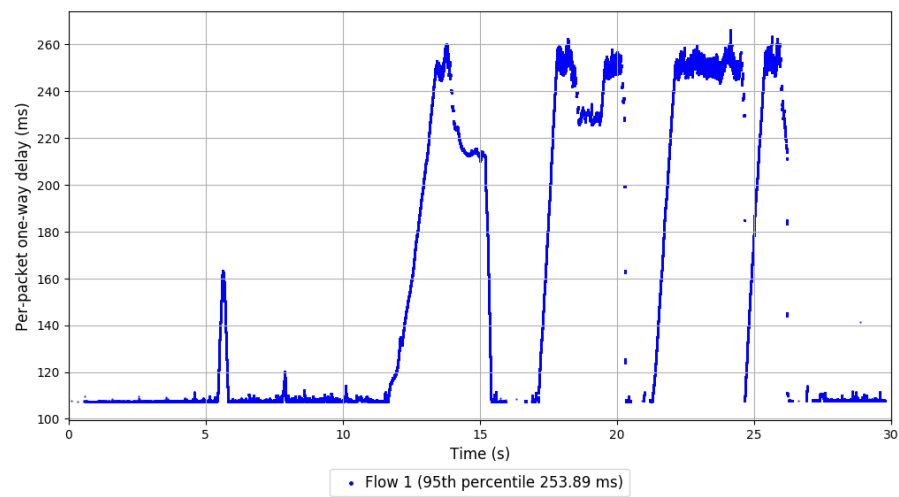
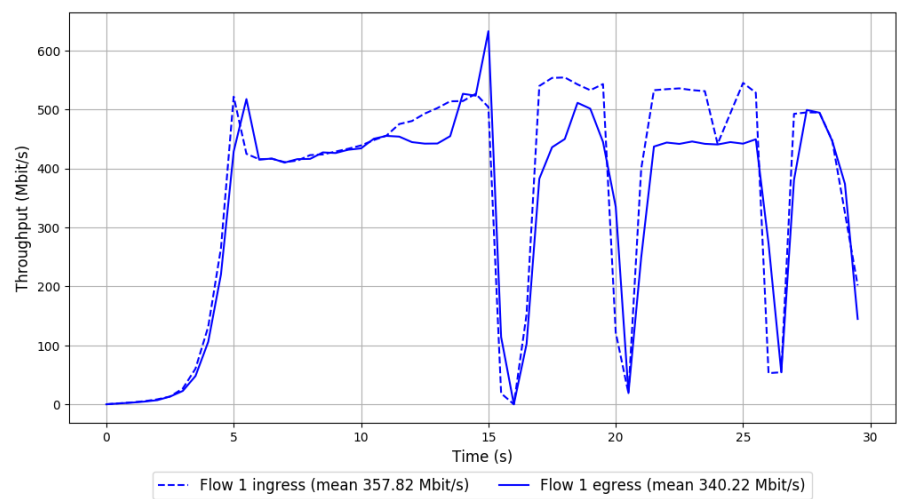
-- Flow 1:

Average throughput: 340.22 Mbit/s

95th percentile per-packet one-way delay: 253.893 ms

Loss rate: 5.63%

Run 9: Report of Vivace-loss — Data Link



Run 10: Statistics of Vivace-loss

Start at: 2018-04-03 02:10:04

End at: 2018-04-03 02:10:34

Below is generated by plot.py at 2018-04-03 05:57:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.00 Mbit/s

95th percentile per-packet one-way delay: 151.764 ms

Loss rate: 1.19%

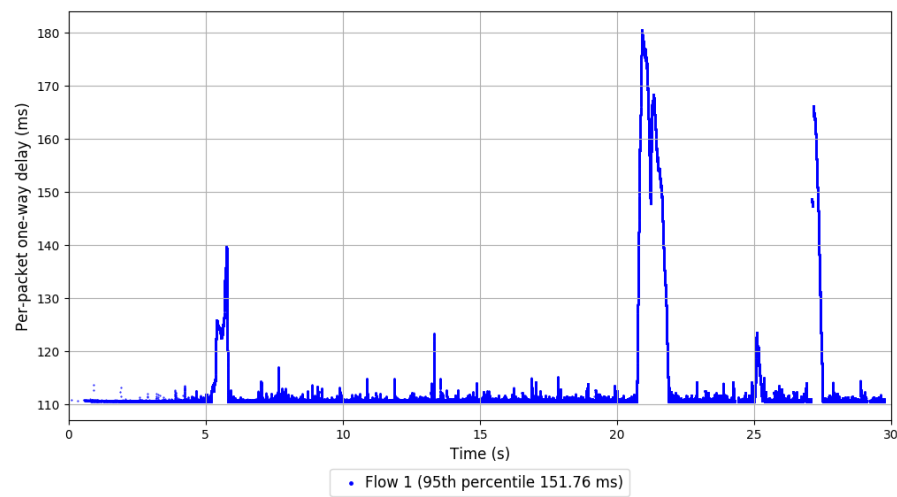
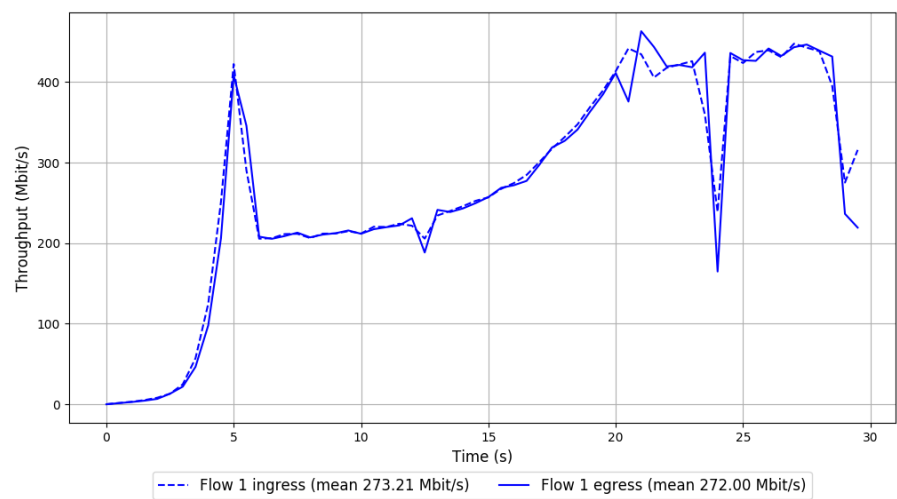
-- Flow 1:

Average throughput: 272.00 Mbit/s

95th percentile per-packet one-way delay: 151.764 ms

Loss rate: 1.19%

Run 10: Report of Vivace-loss — Data Link

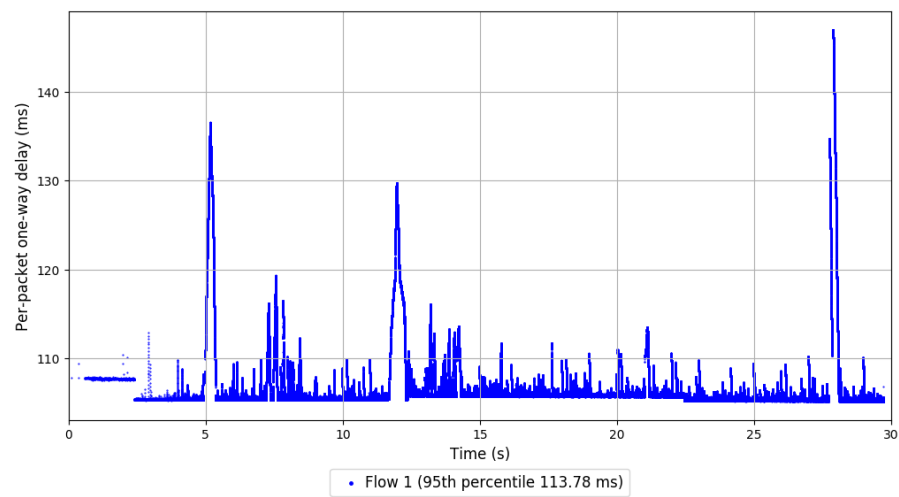
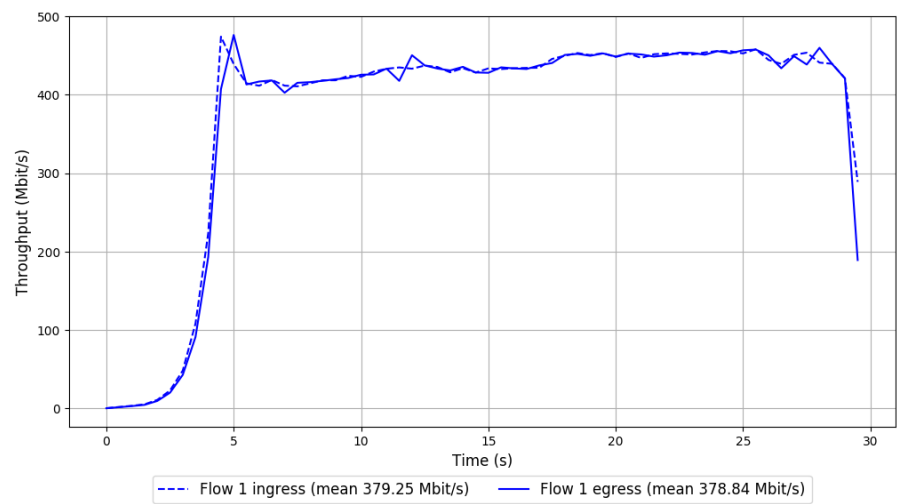


```
Run 1: Statistics of Vivace-LTE

Start at: 2018-04-02 23:39:29
End at: 2018-04-02 23:39:59

# Below is generated by plot.py at 2018-04-03 06:01:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 378.84 Mbit/s
95th percentile per-packet one-way delay: 113.780 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 378.84 Mbit/s
95th percentile per-packet one-way delay: 113.780 ms
Loss rate: 0.86%
```

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-02 23:54:57

End at: 2018-04-02 23:55:27

Below is generated by plot.py at 2018-04-03 06:01:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.44 Mbit/s

95th percentile per-packet one-way delay: 110.765 ms

Loss rate: 0.83%

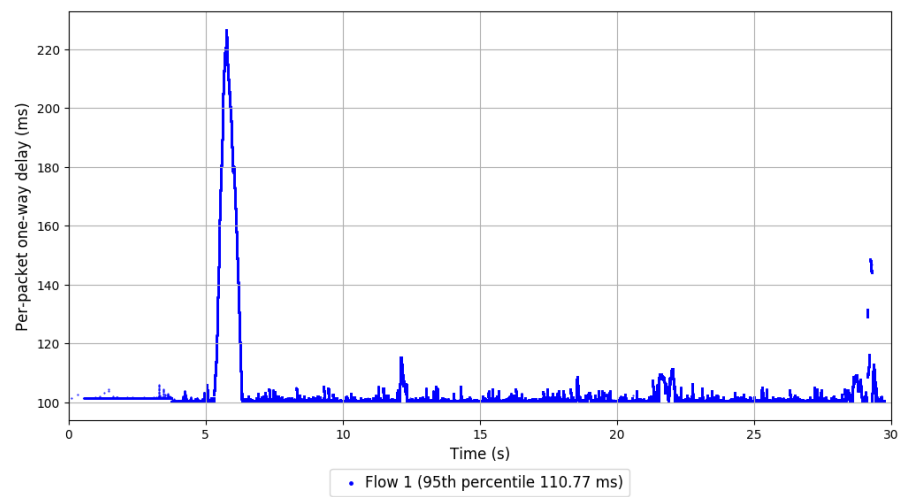
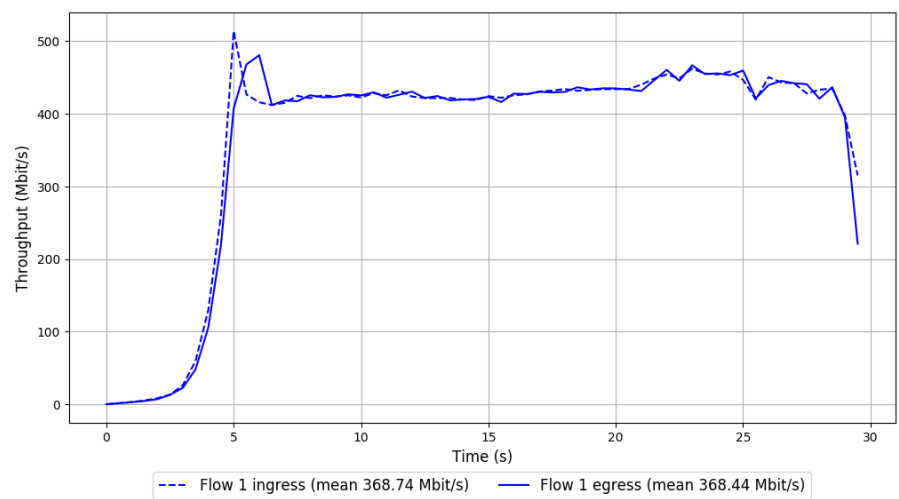
-- Flow 1:

Average throughput: 368.44 Mbit/s

95th percentile per-packet one-way delay: 110.765 ms

Loss rate: 0.83%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-03 00:10:22

End at: 2018-04-03 00:10:52

Below is generated by plot.py at 2018-04-03 06:02:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.74 Mbit/s

95th percentile per-packet one-way delay: 102.370 ms

Loss rate: 0.88%

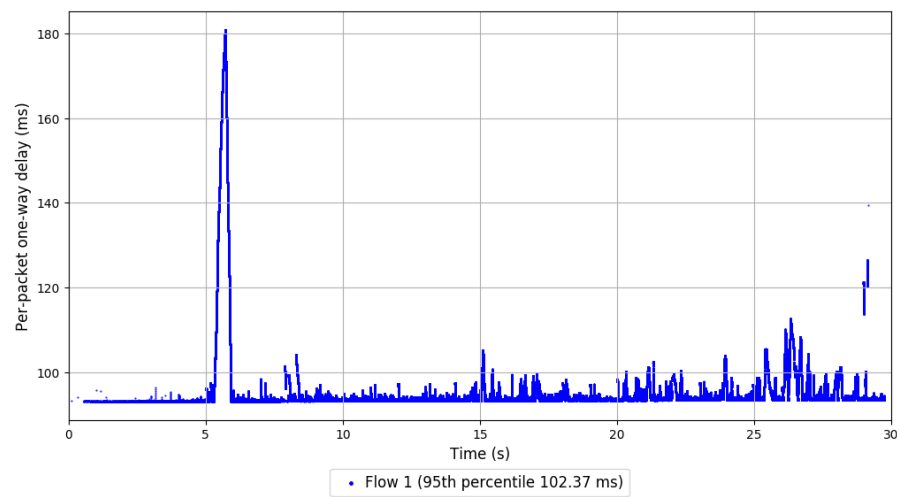
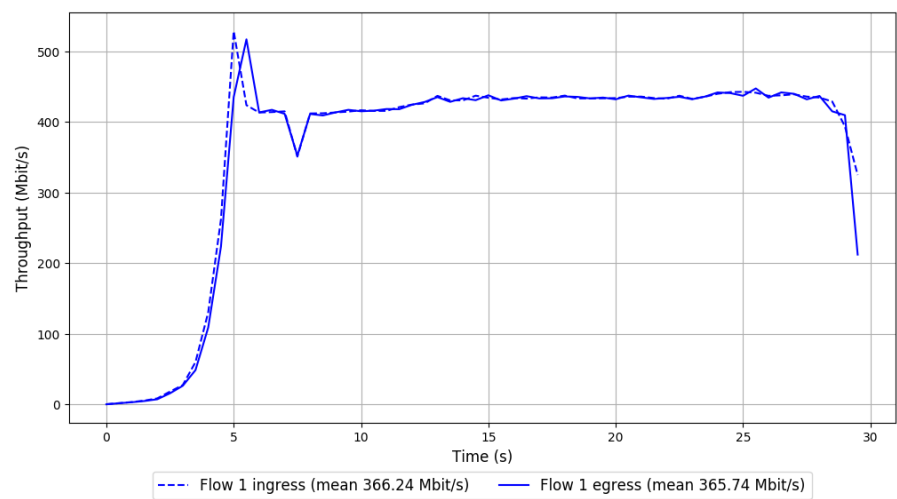
-- Flow 1:

Average throughput: 365.74 Mbit/s

95th percentile per-packet one-way delay: 102.370 ms

Loss rate: 0.88%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-03 00:25:56

End at: 2018-04-03 00:26:26

Below is generated by plot.py at 2018-04-03 06:02:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.96 Mbit/s

95th percentile per-packet one-way delay: 95.177 ms

Loss rate: 0.75%

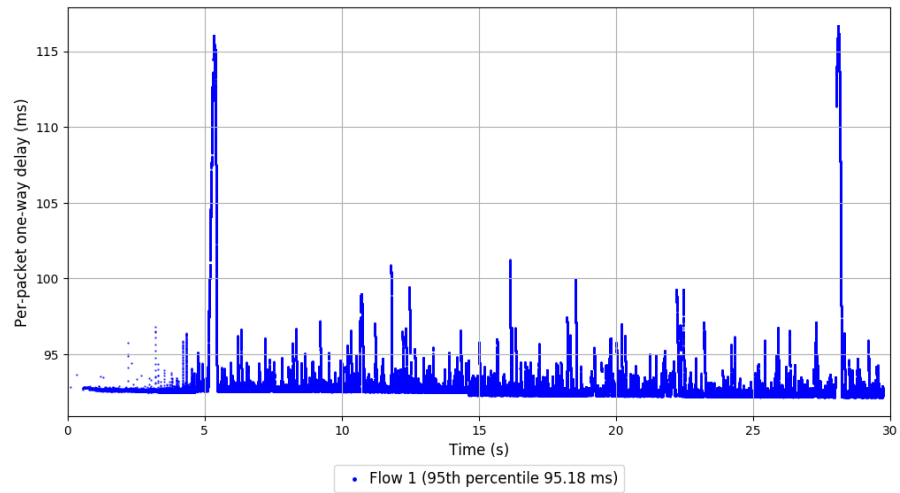
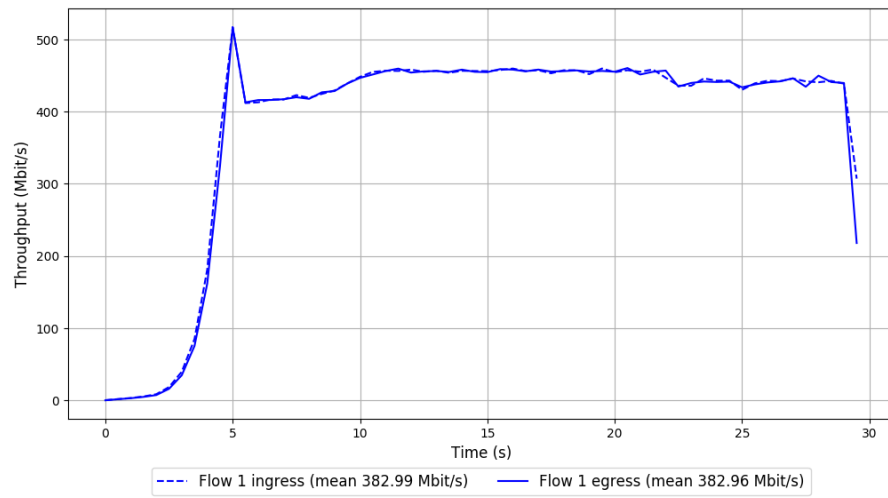
-- Flow 1:

Average throughput: 382.96 Mbit/s

95th percentile per-packet one-way delay: 95.177 ms

Loss rate: 0.75%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-03 00:41:22

End at: 2018-04-03 00:41:52

Below is generated by plot.py at 2018-04-03 06:02:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.90 Mbit/s

95th percentile per-packet one-way delay: 113.686 ms

Loss rate: 0.78%

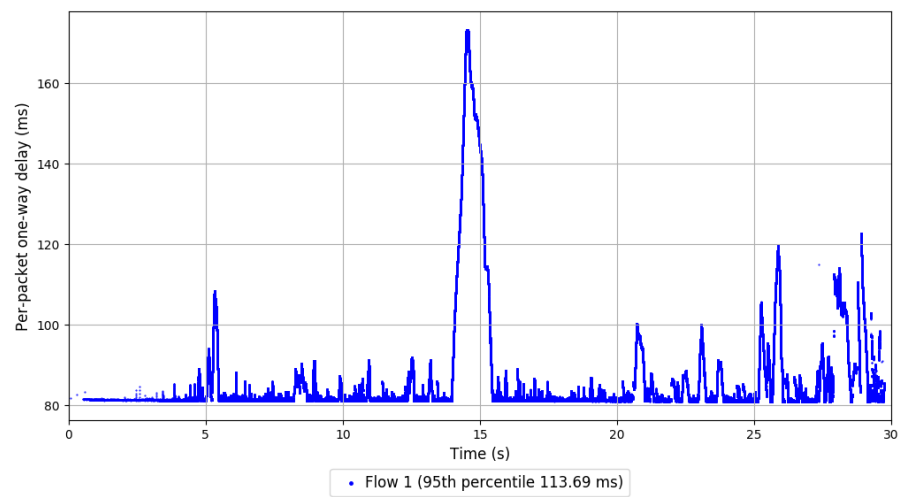
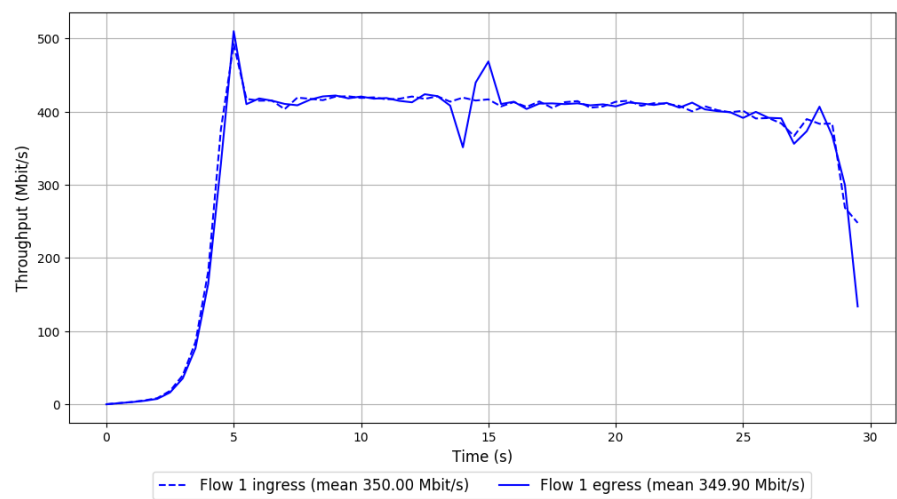
-- Flow 1:

Average throughput: 349.90 Mbit/s

95th percentile per-packet one-way delay: 113.686 ms

Loss rate: 0.78%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-03 00:56:37

End at: 2018-04-03 00:57:07

Below is generated by plot.py at 2018-04-03 06:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.21 Mbit/s

95th percentile per-packet one-way delay: 111.544 ms

Loss rate: 0.89%

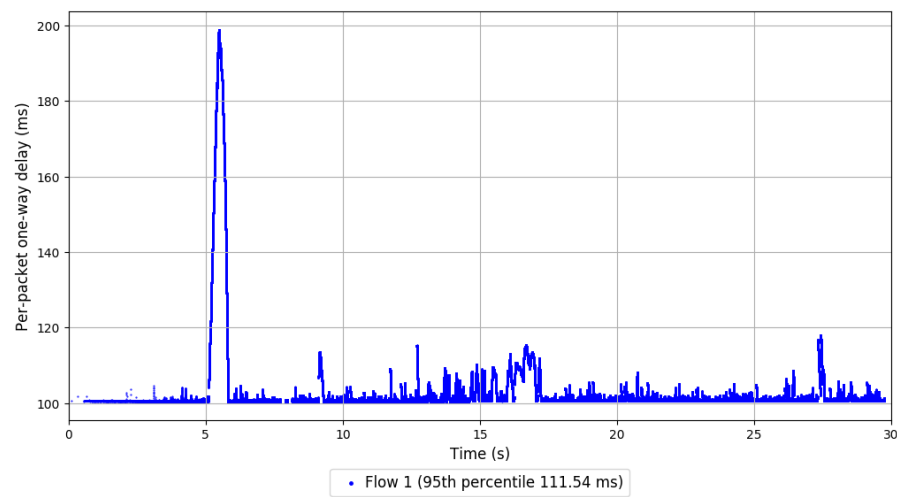
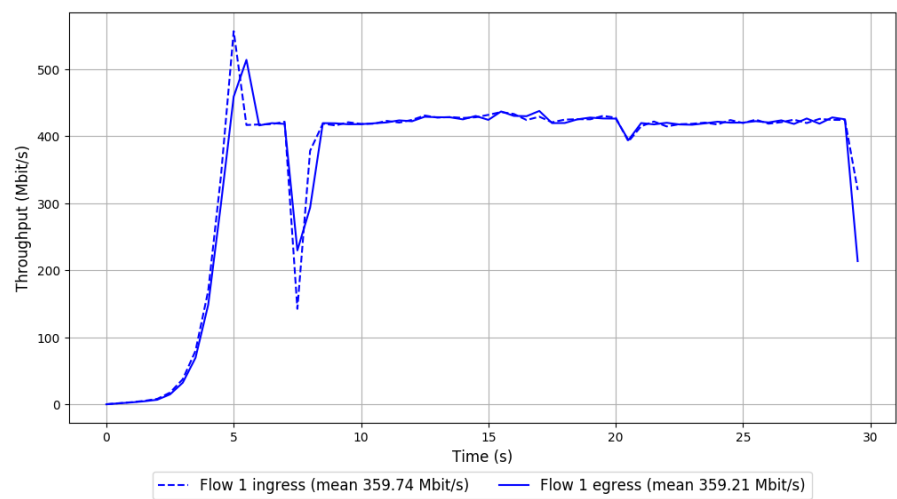
-- Flow 1:

Average throughput: 359.21 Mbit/s

95th percentile per-packet one-way delay: 111.544 ms

Loss rate: 0.89%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-03 01:11:57

End at: 2018-04-03 01:12:27

Below is generated by plot.py at 2018-04-03 06:02:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.40 Mbit/s

95th percentile per-packet one-way delay: 101.167 ms

Loss rate: 1.61%

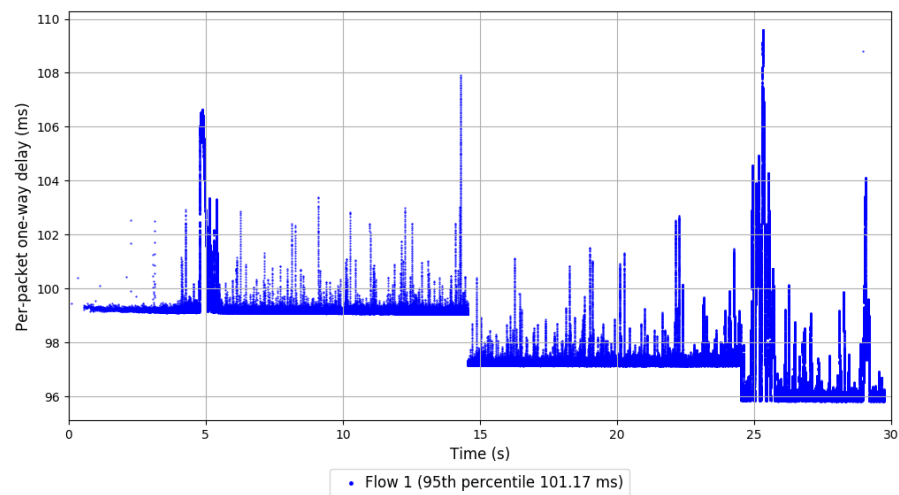
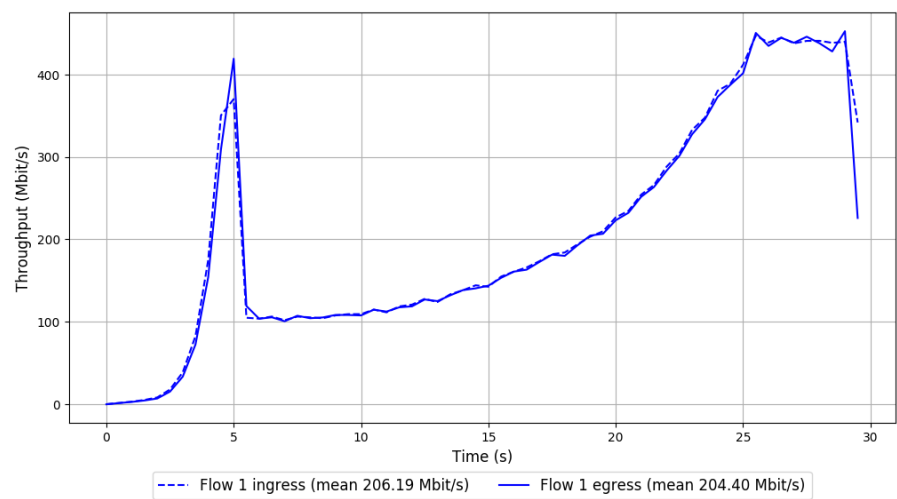
-- Flow 1:

Average throughput: 204.40 Mbit/s

95th percentile per-packet one-way delay: 101.167 ms

Loss rate: 1.61%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-03 01:27:17

End at: 2018-04-03 01:27:47

Below is generated by plot.py at 2018-04-03 06:03:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.23 Mbit/s

95th percentile per-packet one-way delay: 159.753 ms

Loss rate: 1.02%

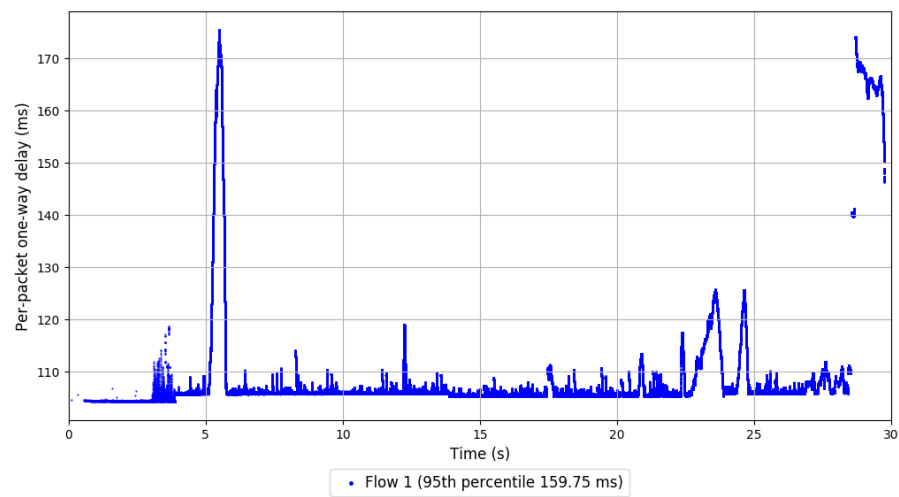
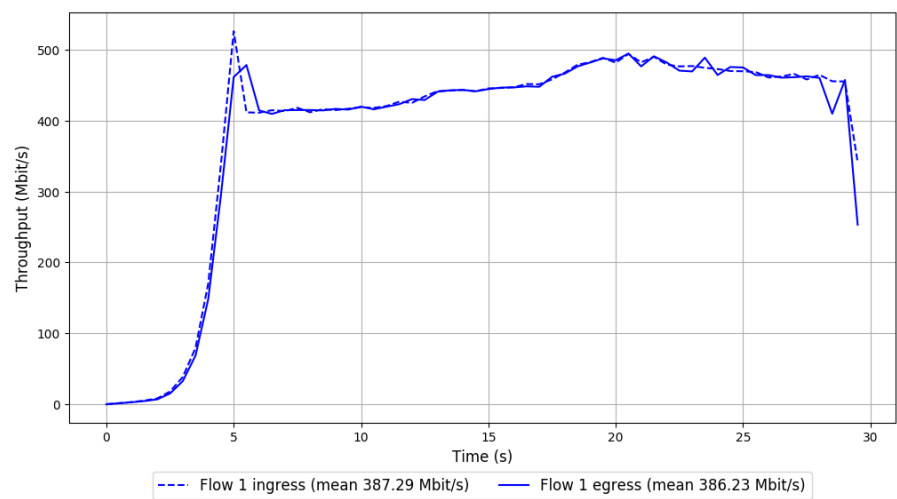
-- Flow 1:

Average throughput: 386.23 Mbit/s

95th percentile per-packet one-way delay: 159.753 ms

Loss rate: 1.02%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-03 01:42:48

End at: 2018-04-03 01:43:18

Below is generated by plot.py at 2018-04-03 06:03:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.49 Mbit/s

95th percentile per-packet one-way delay: 114.547 ms

Loss rate: 0.94%

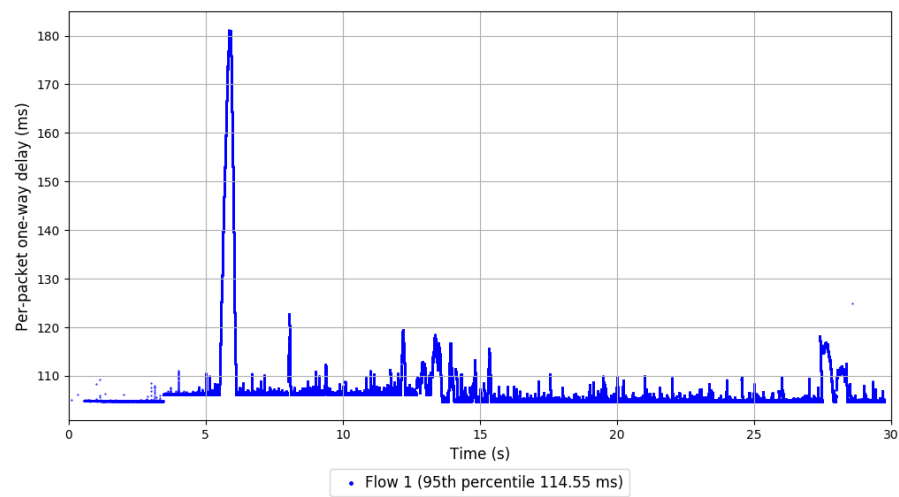
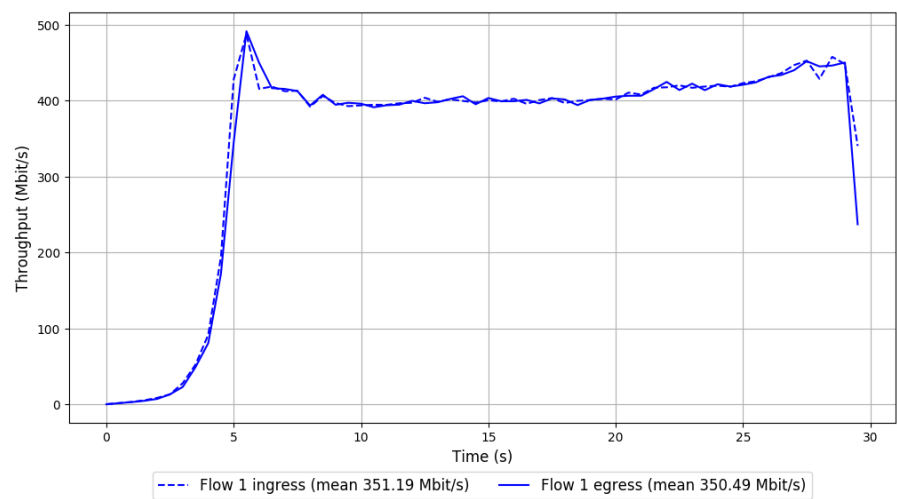
-- Flow 1:

Average throughput: 350.49 Mbit/s

95th percentile per-packet one-way delay: 114.547 ms

Loss rate: 0.94%

Run 9: Report of Vivace-LTE — Data Link



```
Run 10: Statistics of Vivace-LTE

Start at: 2018-04-03 01:57:55
End at: 2018-04-03 01:58:25

# Below is generated by plot.py at 2018-04-03 06:03:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.15 Mbit/s
95th percentile per-packet one-way delay: 154.093 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 377.15 Mbit/s
95th percentile per-packet one-way delay: 154.093 ms
Loss rate: 0.90%
```

Run 10: Report of Vivace-LTE — Data Link

