

Pantheon Report

Generated at 2018-04-10 16:51:07 (UTC).

Data path: Colombia Ethernet (*remote*) → AWS Brazil 2 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).

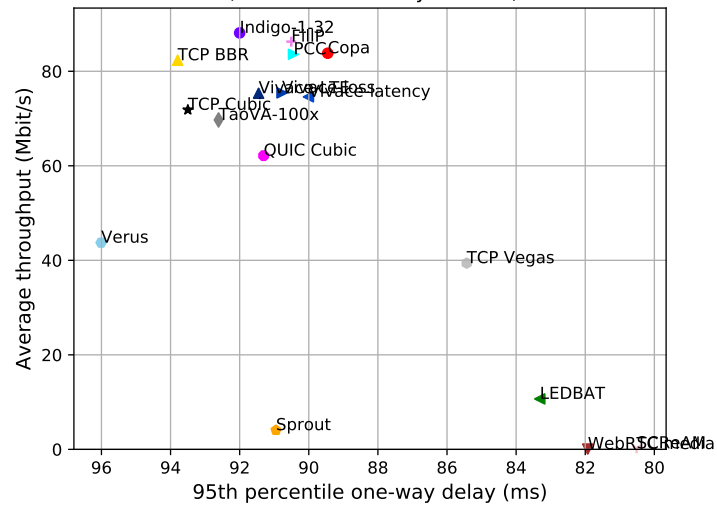
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against **gps.ntp.br** and have been applied to correct the timestamps in logs.

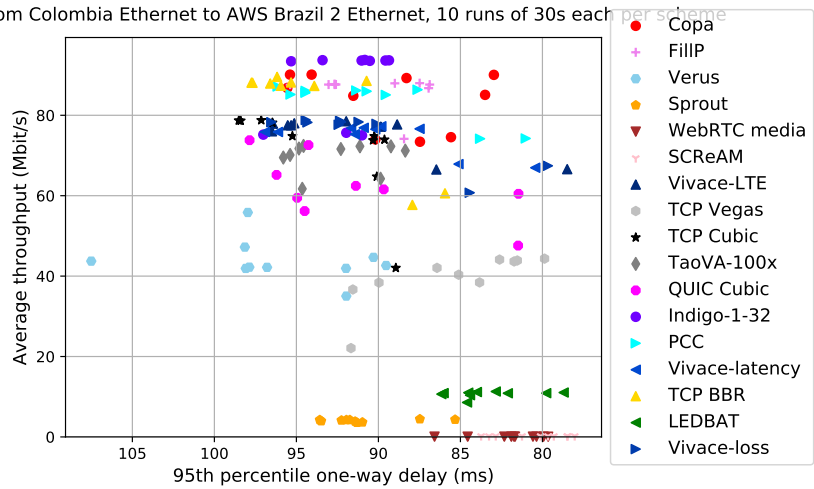
Git summary:

```
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 @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

test from Colombia Ethernet to AWS Brazil 2 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Colombia Ethernet to AWS Brazil 2 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	82.34	93.79	1.78
TCP Cubic	10	71.84	93.50	0.70
LEDBAT	10	10.68	83.32	1.19
PCC	10	83.60	90.44	0.89
QUIC Cubic	9	62.14	91.31	0.97
SCReAM	10	0.22	80.51	0.52
WebRTC media	10	0.06	81.93	0.09
Sprout	10	4.06	90.95	0.74
TaoVA-100x	10	69.70	92.61	2.03
TCP Vegas	10	39.39	85.43	0.79
Verus	10	43.73	96.01	3.47
Copa	10	83.82	89.45	5.40
FillP	10	86.28	90.51	1.65
Indigo-1-32	10	88.12	92.00	3.22
Vivace-latency	10	74.59	90.01	0.96
Vivace-loss	10	75.43	90.77	1.10
Vivace-LTE	10	75.35	91.45	1.02

Run 1: Statistics of TCP BBR

Start at: 2018-04-10 09:00:48

End at: 2018-04-10 09:01:18

Local clock offset: -4.989 ms

Remote clock offset: 2.569 ms

Below is generated by plot.py at 2018-04-10 16:30:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 97.735 ms

Loss rate: 0.69%

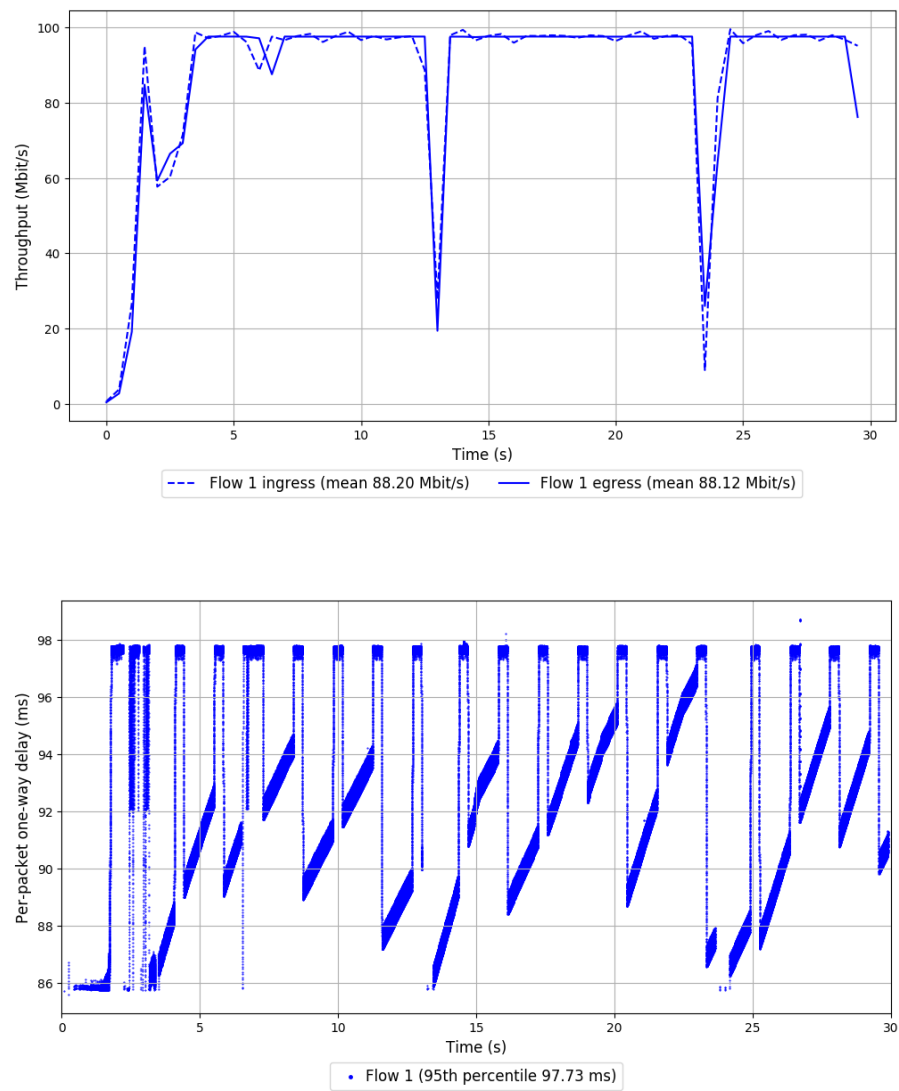
-- Flow 1:

Average throughput: 88.12 Mbit/s

95th percentile per-packet one-way delay: 97.735 ms

Loss rate: 0.69%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-10 09:22:55

End at: 2018-04-10 09:23:25

Local clock offset: -6.395 ms

Remote clock offset: 2.334 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 96.176 ms

Loss rate: 0.66%

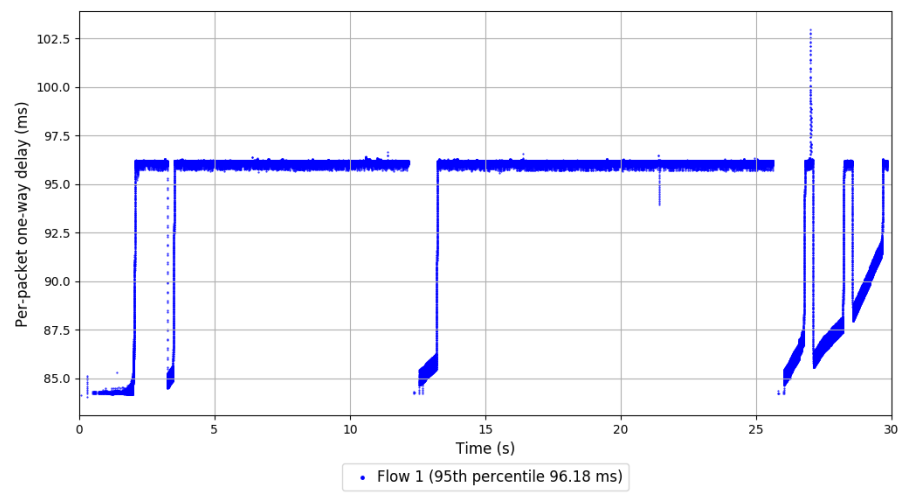
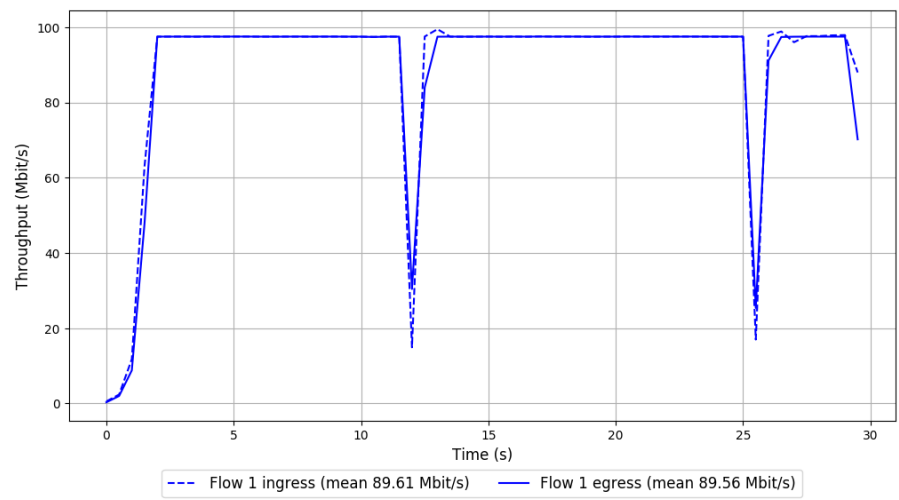
-- Flow 1:

Average throughput: 89.56 Mbit/s

95th percentile per-packet one-way delay: 96.176 ms

Loss rate: 0.66%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-10 09:45:07

End at: 2018-04-10 09:45:37

Local clock offset: -5.564 ms

Remote clock offset: 7.104 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 90.721 ms

Loss rate: 0.68%

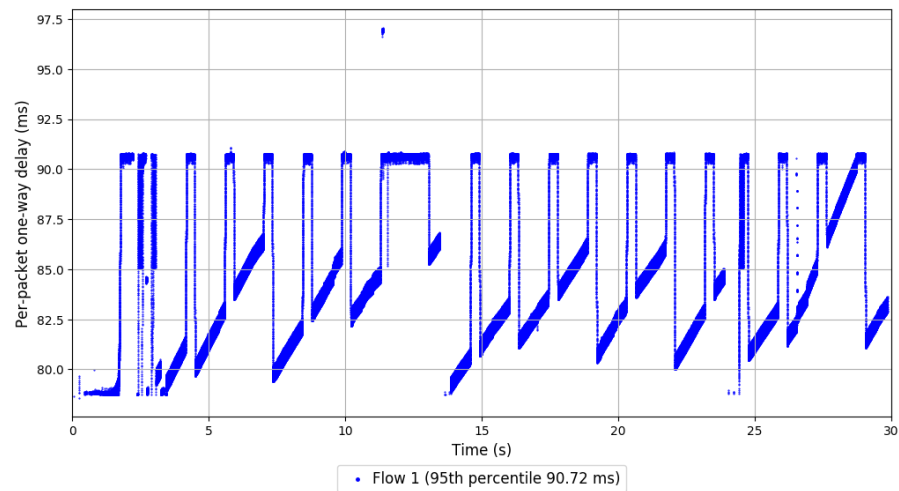
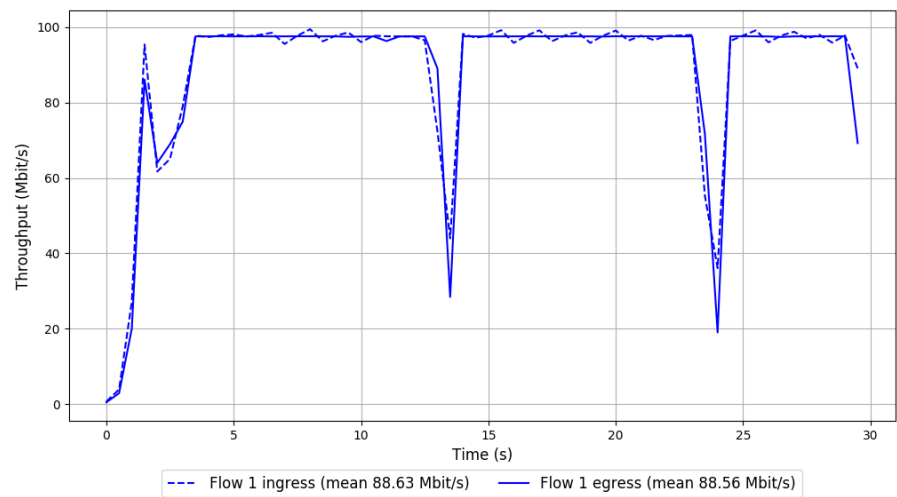
-- Flow 1:

Average throughput: 88.56 Mbit/s

95th percentile per-packet one-way delay: 90.721 ms

Loss rate: 0.68%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-10 10:07:18

End at: 2018-04-10 10:07:48

Local clock offset: -6.327 ms

Remote clock offset: 1.913 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.90 Mbit/s

95th percentile per-packet one-way delay: 96.595 ms

Loss rate: 0.68%

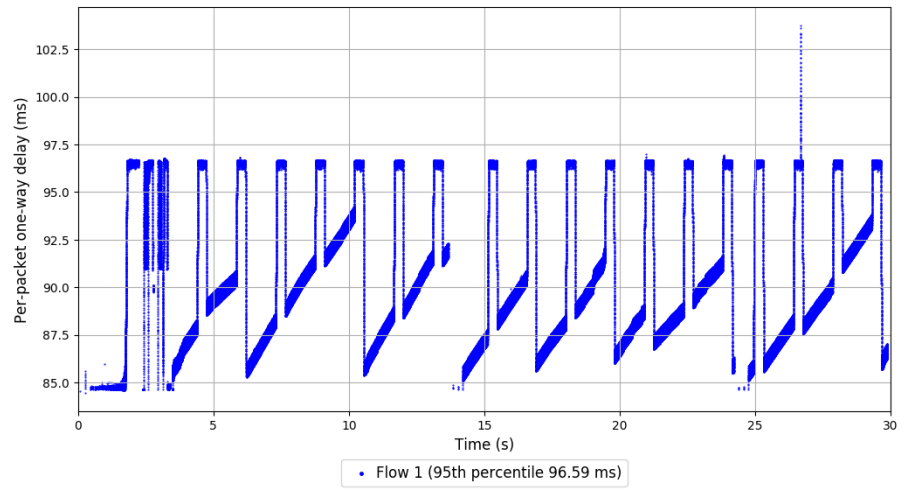
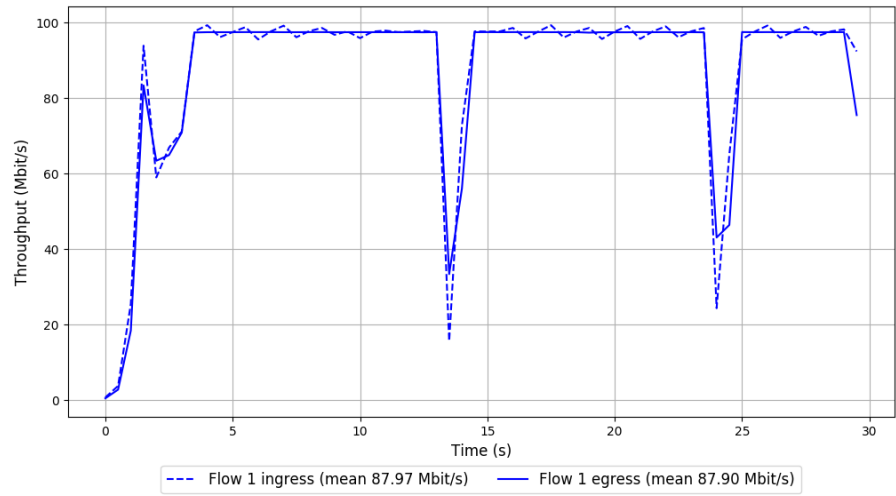
-- Flow 1:

Average throughput: 87.90 Mbit/s

95th percentile per-packet one-way delay: 96.595 ms

Loss rate: 0.68%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

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

End at: 2018-04-10 10:30:00

Local clock offset: -5.325 ms

Remote clock offset: 7.751 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 87.928 ms

Loss rate: 6.36%

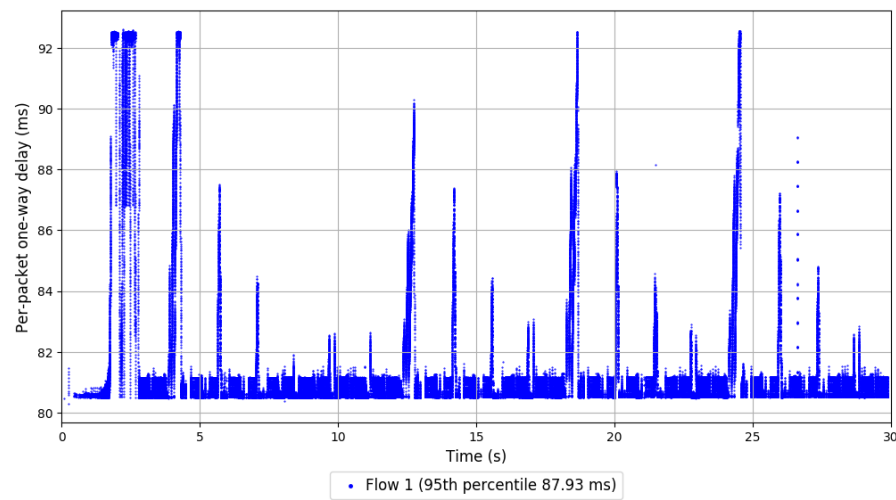
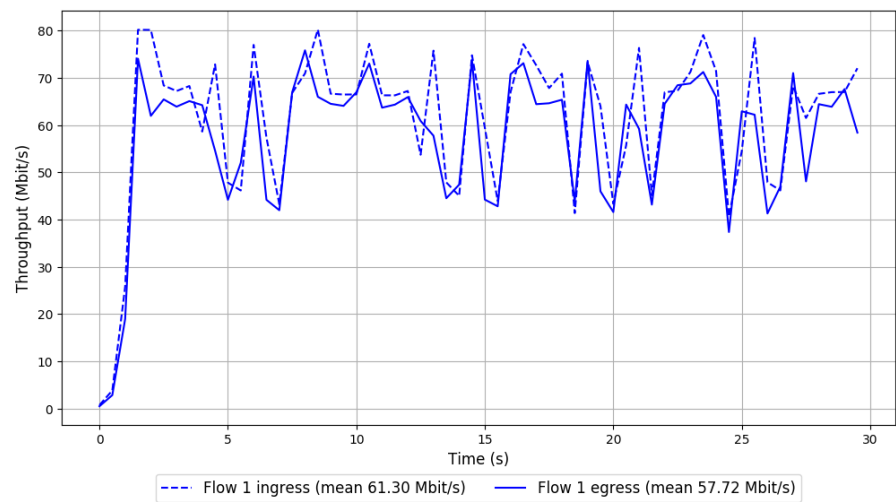
-- Flow 1:

Average throughput: 57.72 Mbit/s

95th percentile per-packet one-way delay: 87.928 ms

Loss rate: 6.36%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-10 10:51:42

End at: 2018-04-10 10:52:12

Local clock offset: -5.408 ms

Remote clock offset: 9.464 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.60 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 6.02%

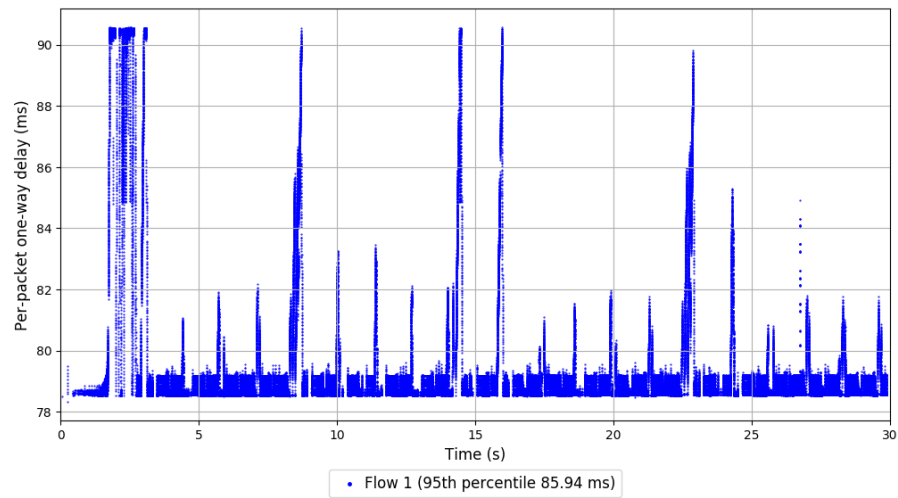
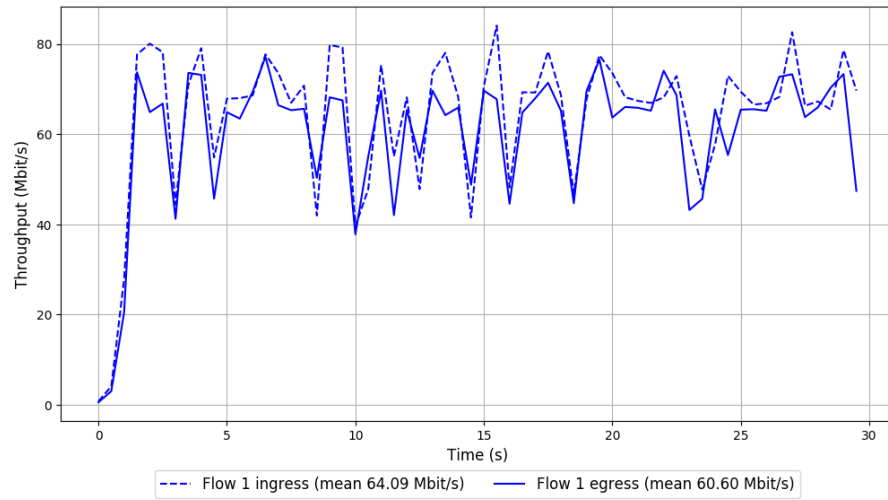
-- Flow 1:

Average throughput: 60.60 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 6.02%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-10 11:14:01

End at: 2018-04-10 11:14:31

Local clock offset: -4.696 ms

Remote clock offset: 4.911 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 95.948 ms

Loss rate: 0.70%

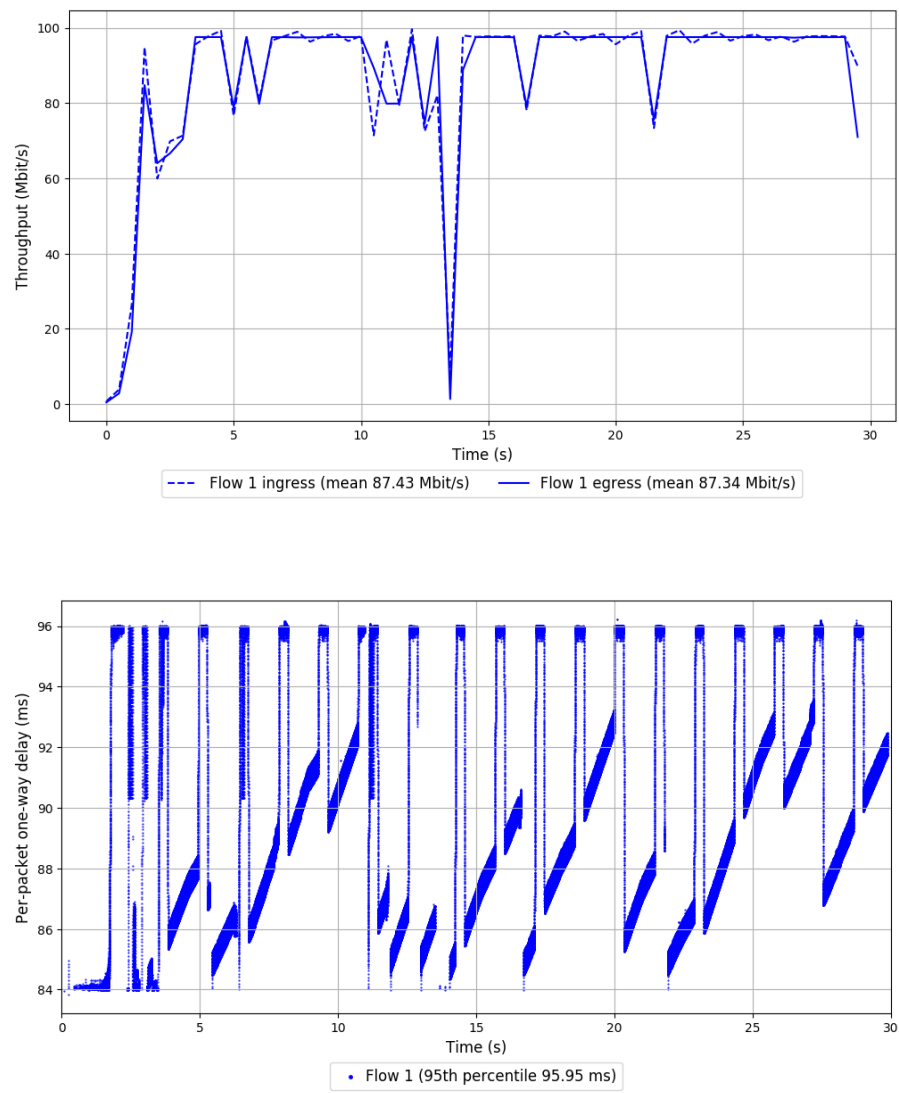
-- Flow 1:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 95.948 ms

Loss rate: 0.70%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-10 11:36:07

End at: 2018-04-10 11:36:37

Local clock offset: -5.801 ms

Remote clock offset: 2.765 ms

Below is generated by plot.py at 2018-04-10 16:30:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 95.324 ms

Loss rate: 0.68%

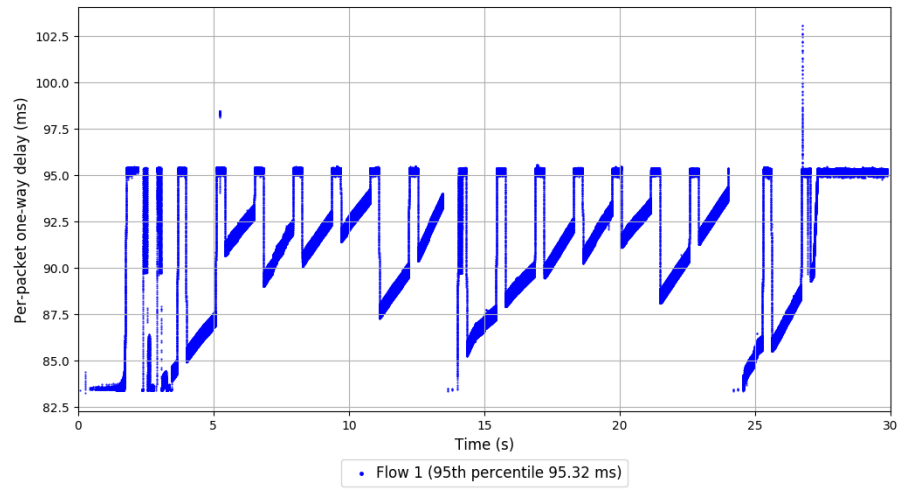
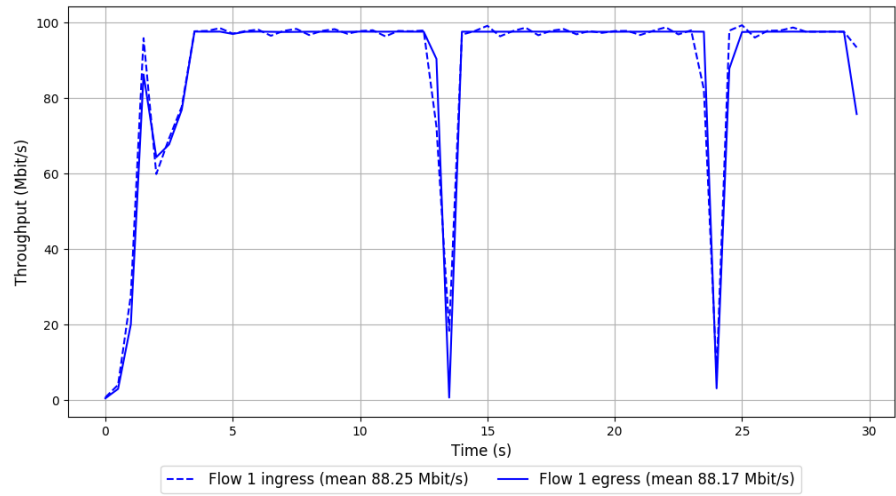
-- Flow 1:

Average throughput: 88.17 Mbit/s

95th percentile per-packet one-way delay: 95.324 ms

Loss rate: 0.68%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-10 11:58:28

End at: 2018-04-10 11:58:58

Local clock offset: -6.746 ms

Remote clock offset: 0.978 ms

Below is generated by plot.py at 2018-04-10 16:31:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 93.907 ms

Loss rate: 0.68%

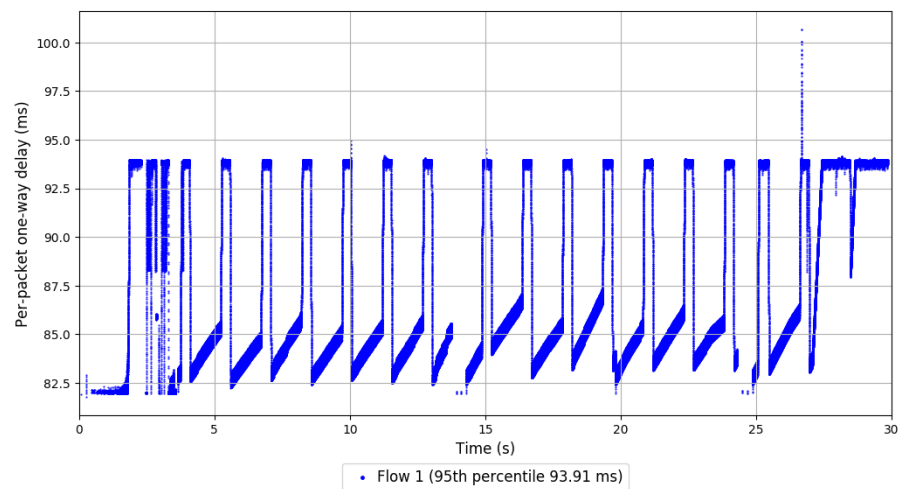
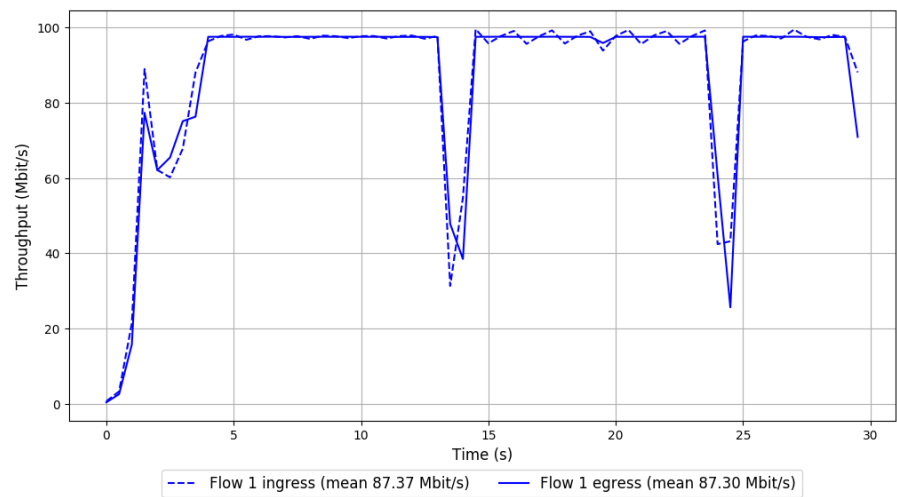
-- Flow 1:

Average throughput: 87.30 Mbit/s

95th percentile per-packet one-way delay: 93.907 ms

Loss rate: 0.68%

Run 9: Report of TCP BBR — Data Link

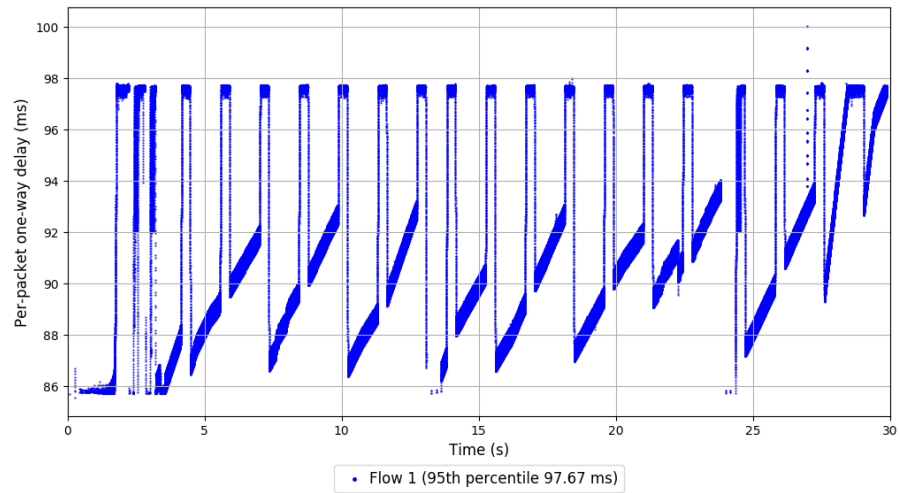
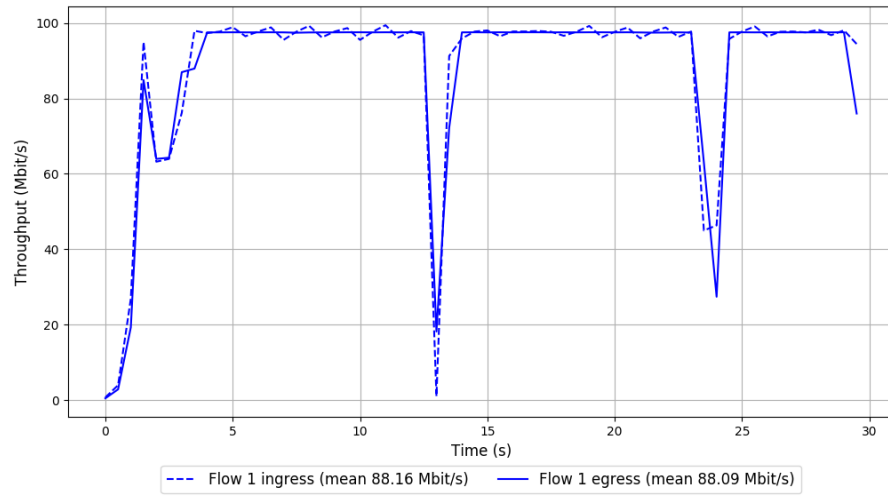


Run 10: Statistics of TCP BBR

Start at: 2018-04-10 12:20:49
End at: 2018-04-10 12:21:20
Local clock offset: -5.98 ms
Remote clock offset: -0.585 ms

Below is generated by plot.py at 2018-04-10 16:31:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 97.674 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 88.09 Mbit/s
95th percentile per-packet one-way delay: 97.674 ms
Loss rate: 0.70%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-10 09:06:56

End at: 2018-04-10 09:07:26

Local clock offset: -4.948 ms

Remote clock offset: 6.493 ms

Below is generated by plot.py at 2018-04-10 16:31:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.04 Mbit/s

95th percentile per-packet one-way delay: 88.938 ms

Loss rate: 1.08%

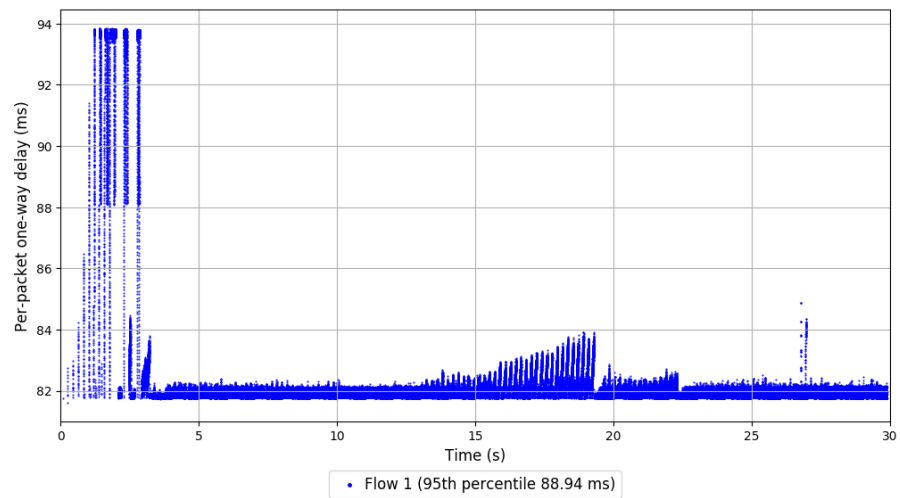
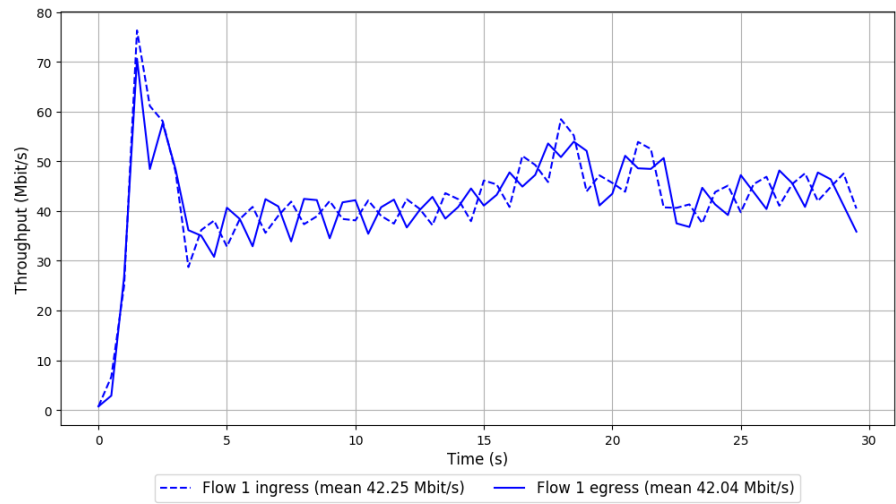
-- Flow 1:

Average throughput: 42.04 Mbit/s

95th percentile per-packet one-way delay: 88.938 ms

Loss rate: 1.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-10 09:29:03

End at: 2018-04-10 09:29:34

Local clock offset: -4.882 ms

Remote clock offset: 2.308 ms

Below is generated by plot.py at 2018-04-10 16:32:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 90.249 ms

Loss rate: 0.84%

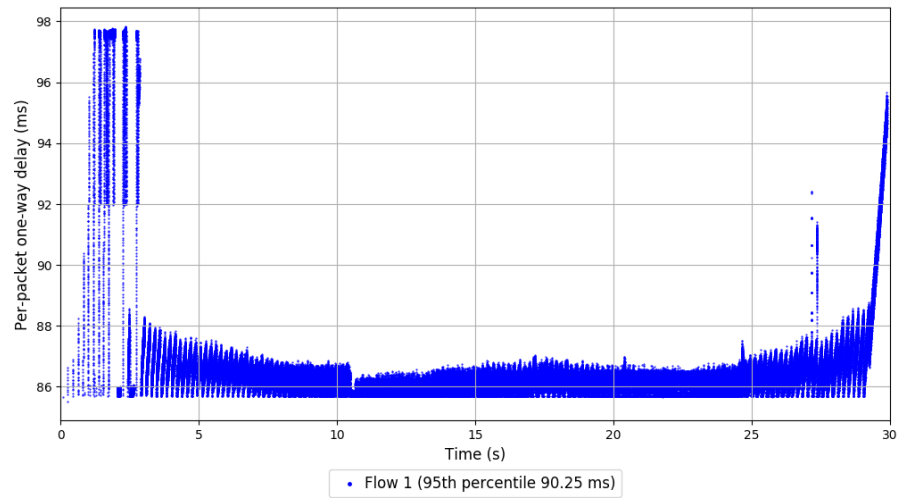
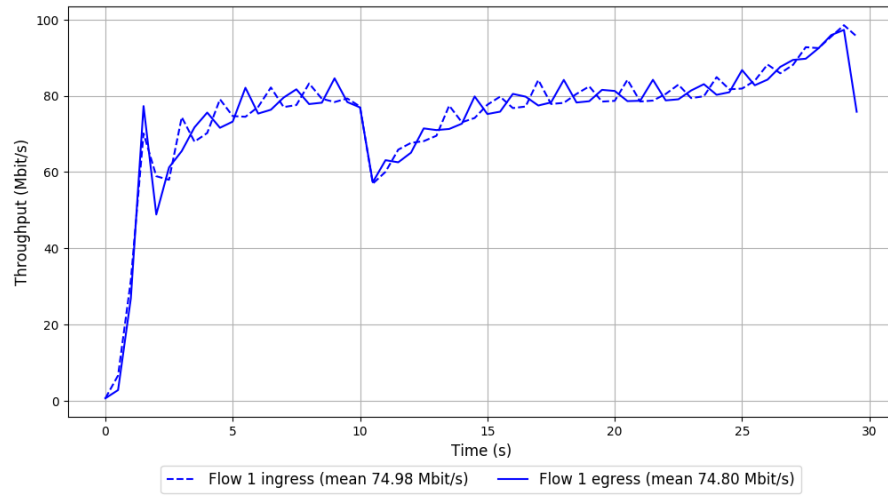
-- Flow 1:

Average throughput: 74.80 Mbit/s

95th percentile per-packet one-way delay: 90.249 ms

Loss rate: 0.84%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-10 09:51:15

End at: 2018-04-10 09:51:45

Local clock offset: -4.802 ms

Remote clock offset: 1.589 ms

Below is generated by plot.py at 2018-04-10 16:32:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 98.512 ms

Loss rate: 0.64%

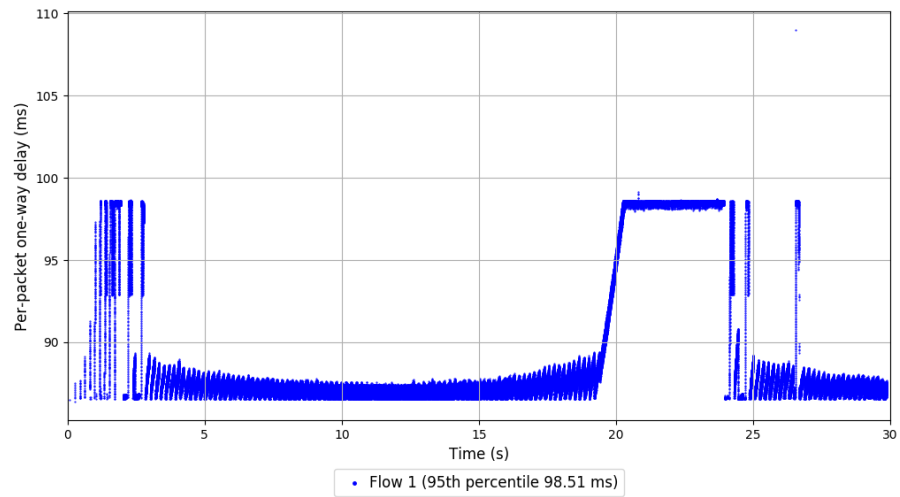
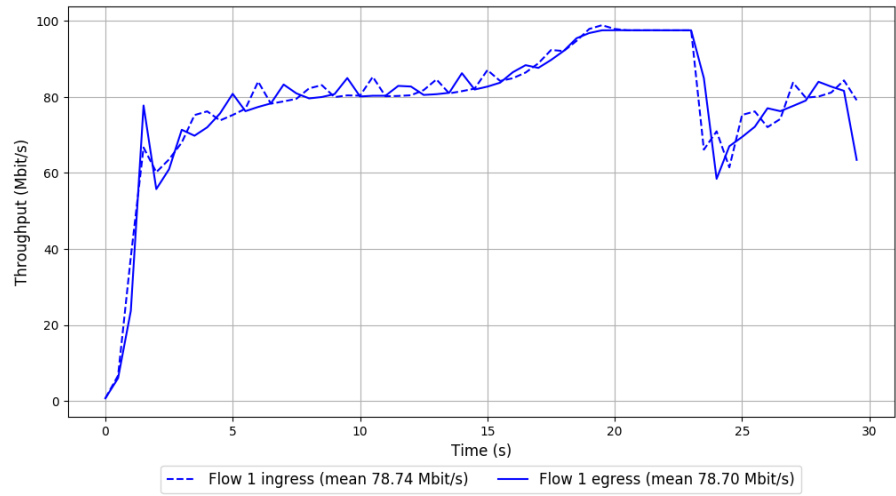
-- Flow 1:

Average throughput: 78.70 Mbit/s

95th percentile per-packet one-way delay: 98.512 ms

Loss rate: 0.64%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-10 10:13:26

End at: 2018-04-10 10:13:56

Local clock offset: -6.237 ms

Remote clock offset: 8.365 ms

Below is generated by plot.py at 2018-04-10 16:32:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 90.097 ms

Loss rate: 1.12%

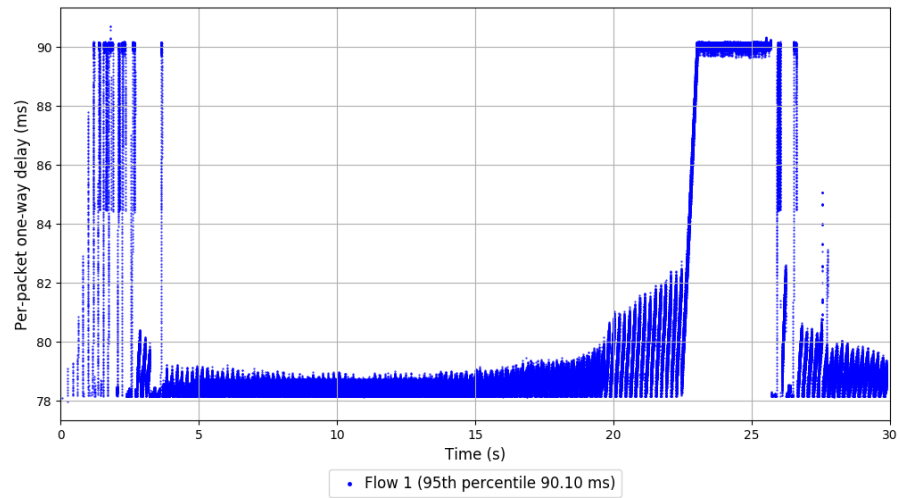
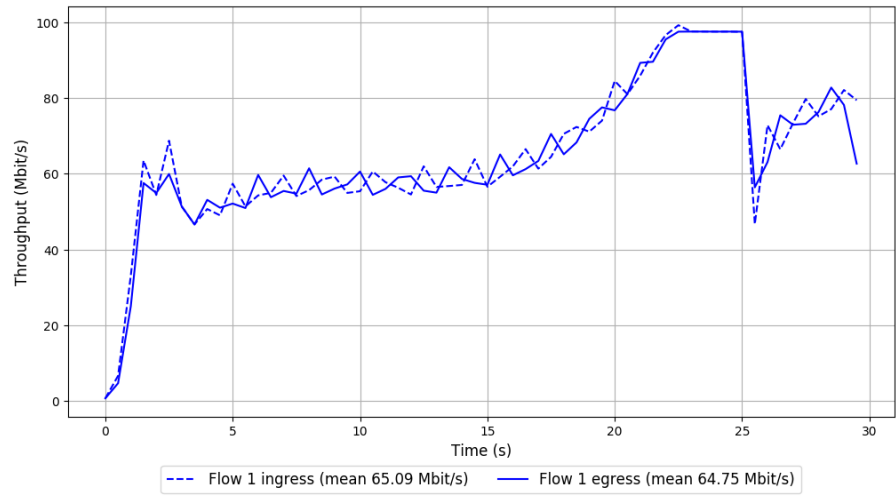
-- Flow 1:

Average throughput: 64.75 Mbit/s

95th percentile per-packet one-way delay: 90.097 ms

Loss rate: 1.12%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-10 10:35:39

End at: 2018-04-10 10:36:09

Local clock offset: -6.032 ms

Remote clock offset: 3.269 ms

Below is generated by plot.py at 2018-04-10 16:32:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 97.142 ms

Loss rate: 0.64%

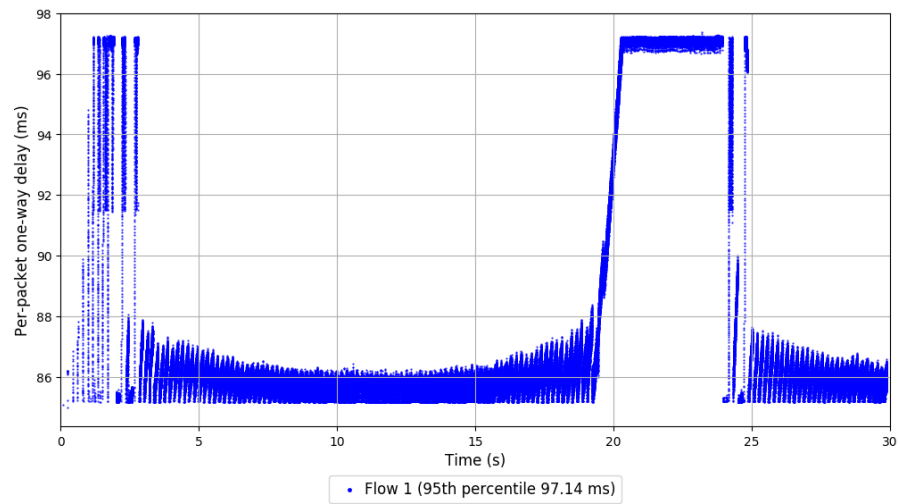
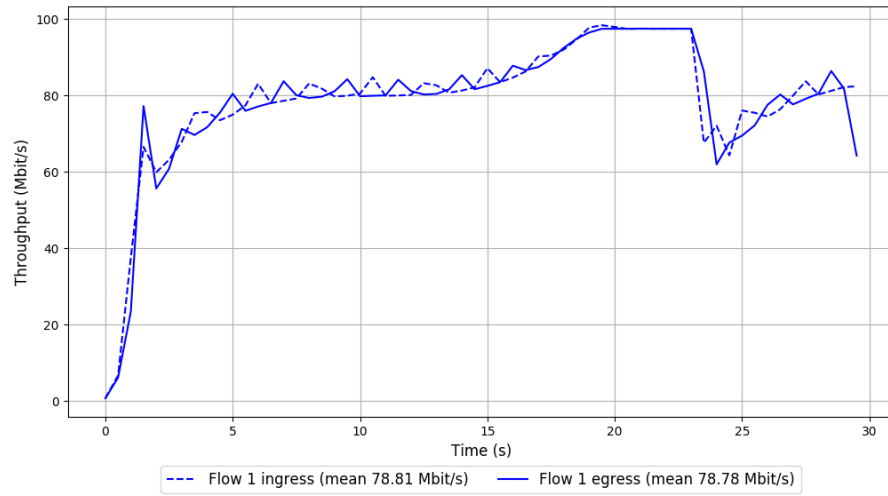
-- Flow 1:

Average throughput: 78.78 Mbit/s

95th percentile per-packet one-way delay: 97.142 ms

Loss rate: 0.64%

Run 5: Report of TCP Cubic — Data Link

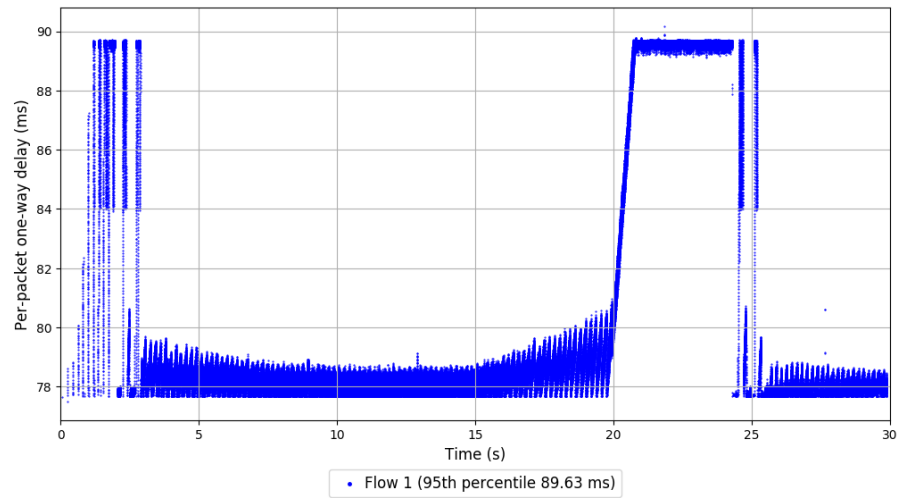
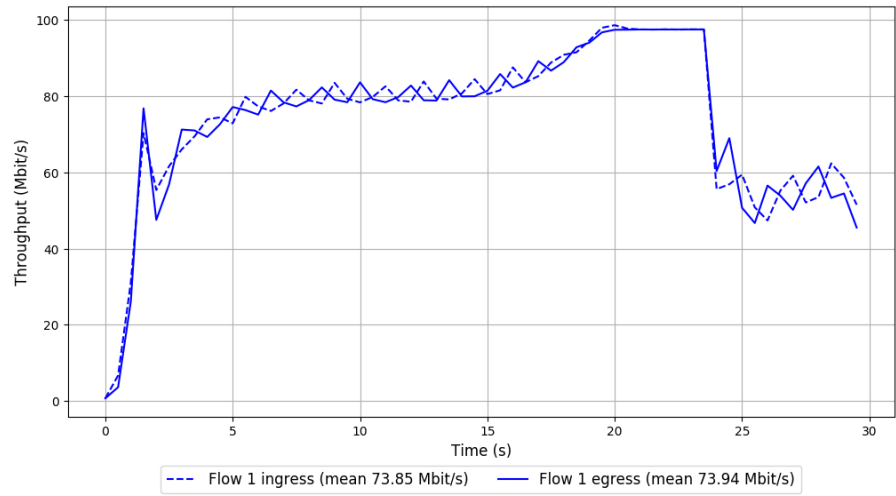


Run 6: Statistics of TCP Cubic

Start at: 2018-04-10 10:57:50
End at: 2018-04-10 10:58:20
Local clock offset: -5.442 ms
Remote clock offset: 10.367 ms

Below is generated by plot.py at 2018-04-10 16:32:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 89.630 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 73.94 Mbit/s
95th percentile per-packet one-way delay: 89.630 ms
Loss rate: 0.47%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-10 11:20:09

End at: 2018-04-10 11:20:39

Local clock offset: -5.438 ms

Remote clock offset: 5.048 ms

Below is generated by plot.py at 2018-04-10 16:32:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.82 Mbit/s

95th percentile per-packet one-way delay: 95.242 ms

Loss rate: 0.48%

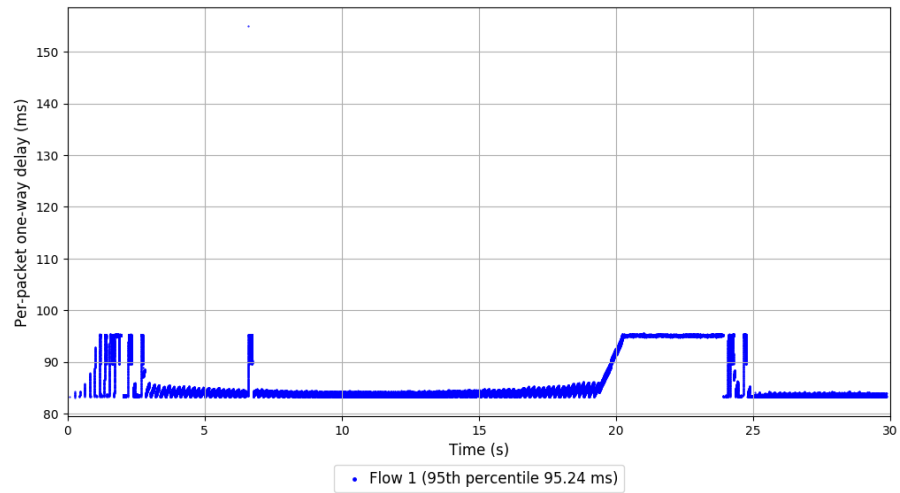
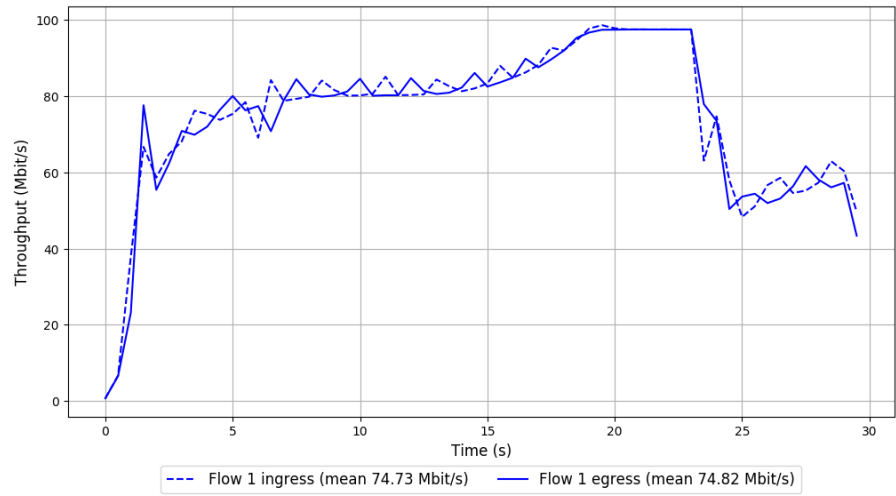
-- Flow 1:

Average throughput: 74.82 Mbit/s

95th percentile per-packet one-way delay: 95.242 ms

Loss rate: 0.48%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-10 11:42:17

End at: 2018-04-10 11:42:47

Local clock offset: -5.938 ms

Remote clock offset: 1.937 ms

Below is generated by plot.py at 2018-04-10 16:33:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 96.463 ms

Loss rate: 0.64%

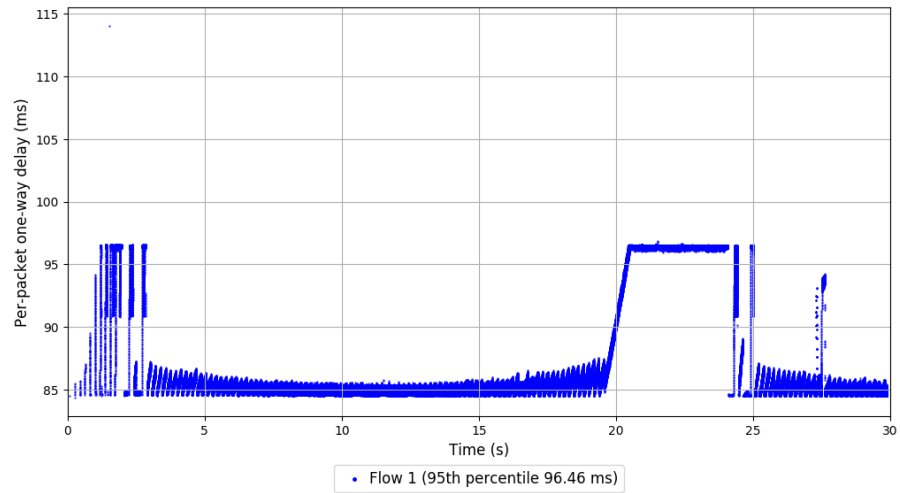
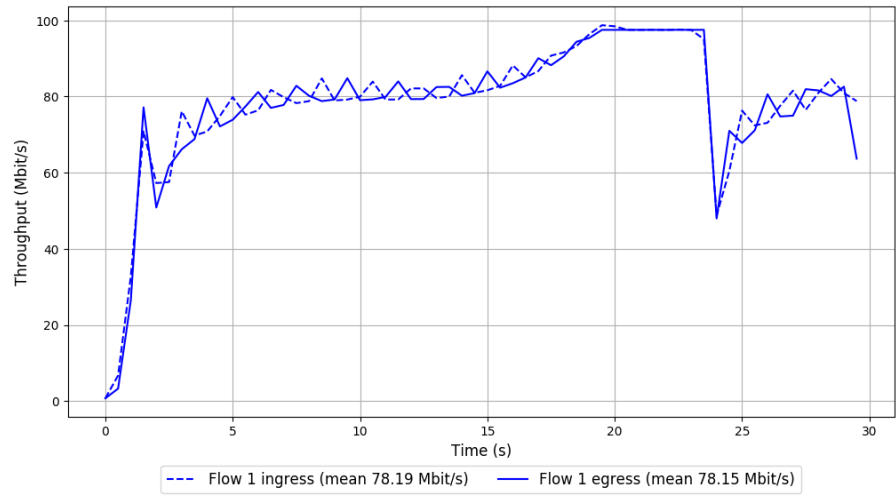
-- Flow 1:

Average throughput: 78.15 Mbit/s

95th percentile per-packet one-way delay: 96.463 ms

Loss rate: 0.64%

Run 8: Report of TCP Cubic — Data Link

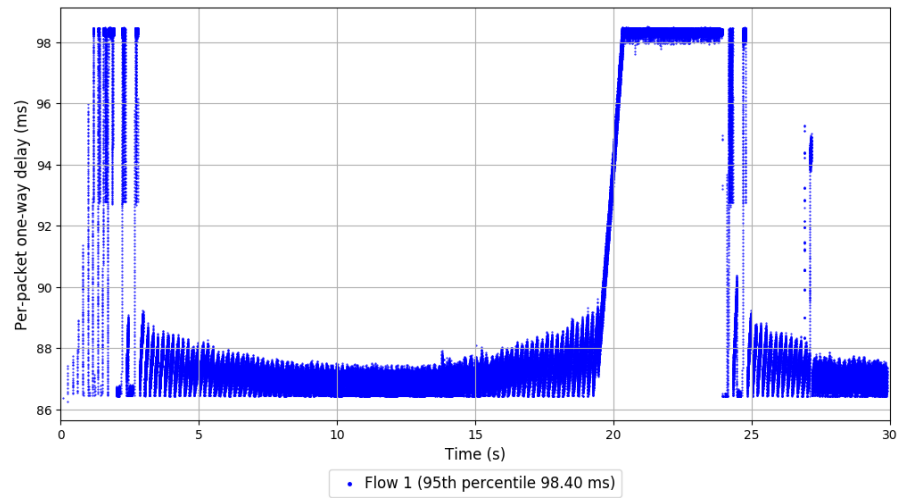
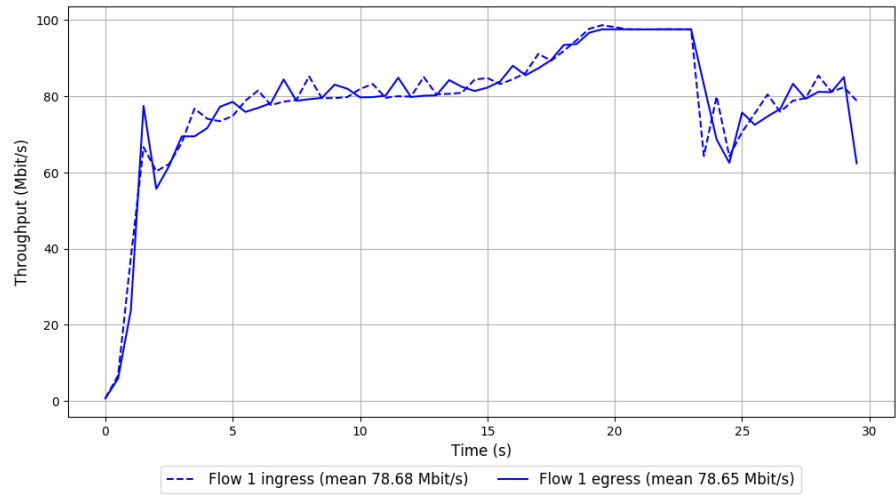


Run 9: Statistics of TCP Cubic

Start at: 2018-04-10 12:04:36
End at: 2018-04-10 12:05:06
Local clock offset: -5.179 ms
Remote clock offset: -0.077 ms

Below is generated by plot.py at 2018-04-10 16:33:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 98.397 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 78.65 Mbit/s
95th percentile per-packet one-way delay: 98.397 ms
Loss rate: 0.64%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-10 12:26:58

End at: 2018-04-10 12:27:28

Local clock offset: -6.746 ms

Remote clock offset: 4.068 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 90.325 ms

Loss rate: 0.47%

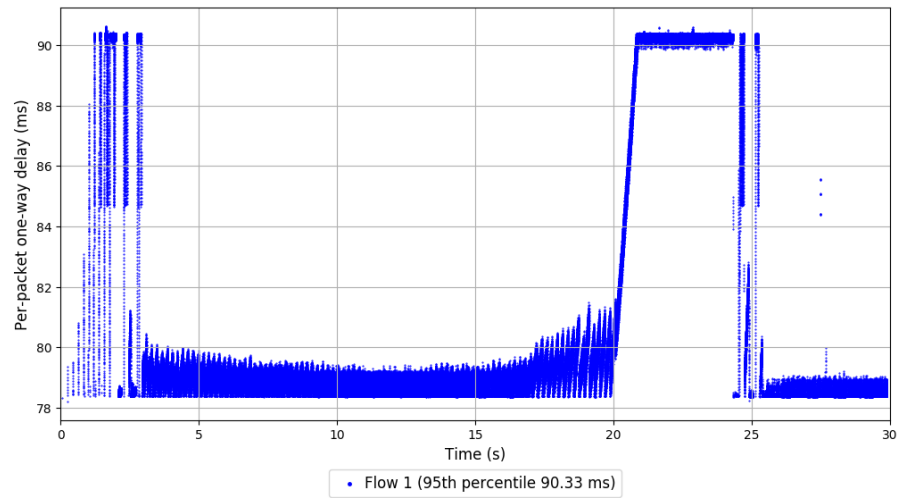
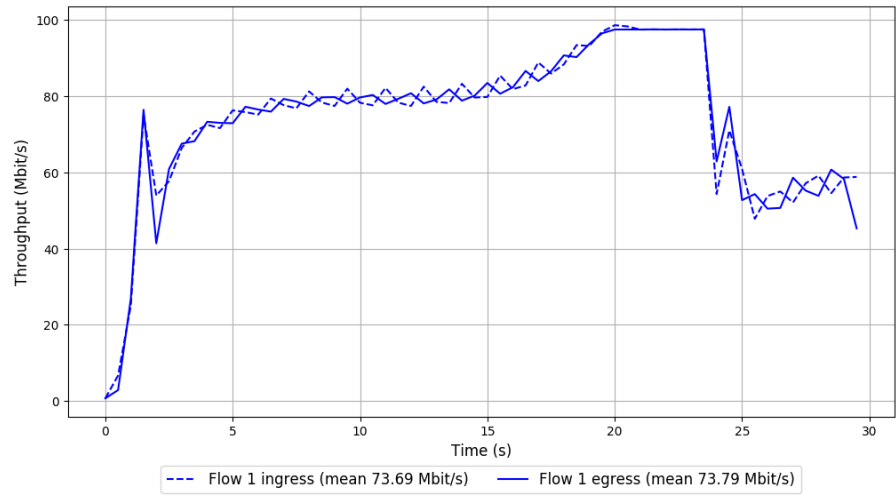
-- Flow 1:

Average throughput: 73.79 Mbit/s

95th percentile per-packet one-way delay: 90.325 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

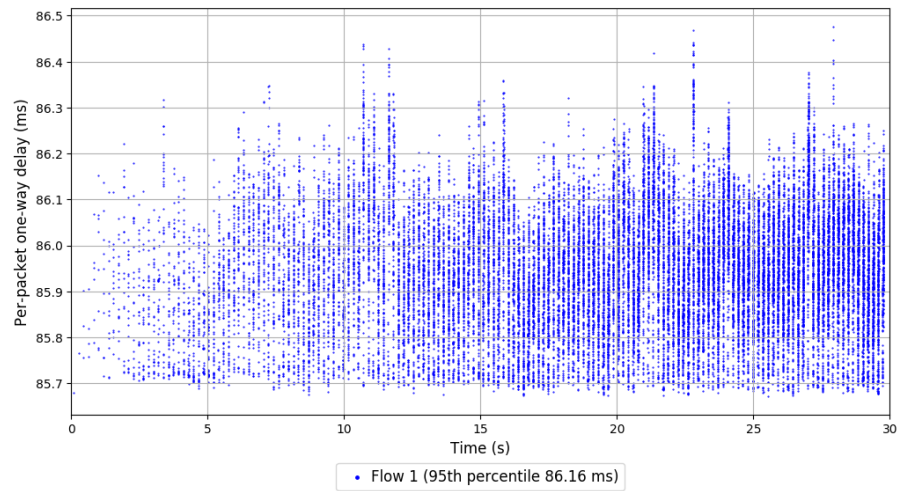
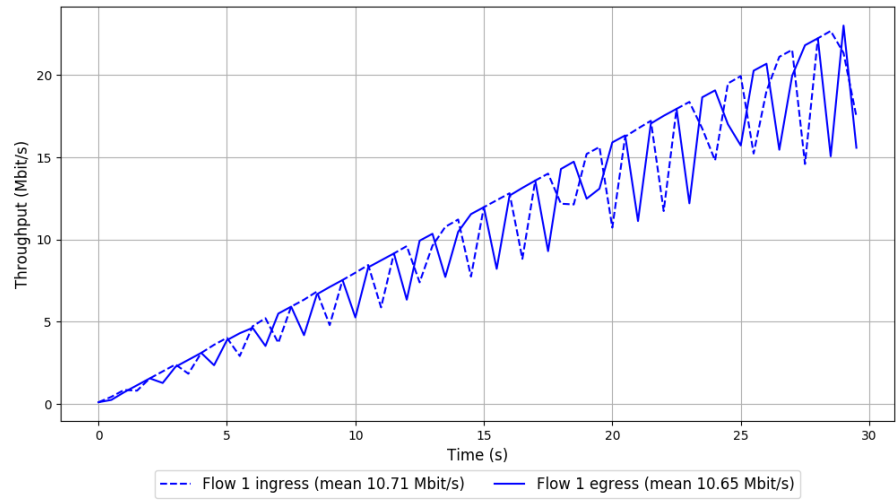


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-10 09:04:30
End at: 2018-04-10 09:05:00
Local clock offset: -5.724 ms
Remote clock offset: 1.746 ms

# Below is generated by plot.py at 2018-04-10 16:33:07
# Datalink statistics
-- Total of 1 flow:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 86.163 ms
Loss rate: 1.23%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-10 09:26:36

End at: 2018-04-10 09:27:06

Local clock offset: -4.883 ms

Remote clock offset: 2.35 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 86.026 ms

Loss rate: 1.21%

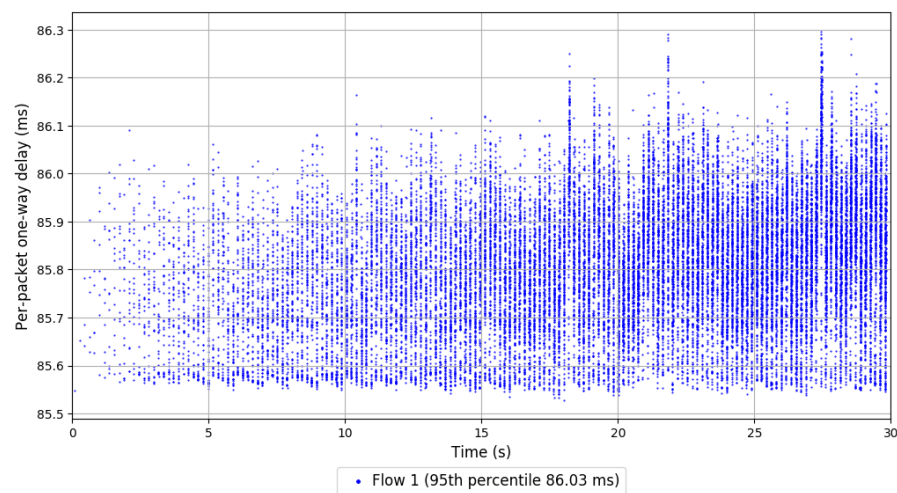
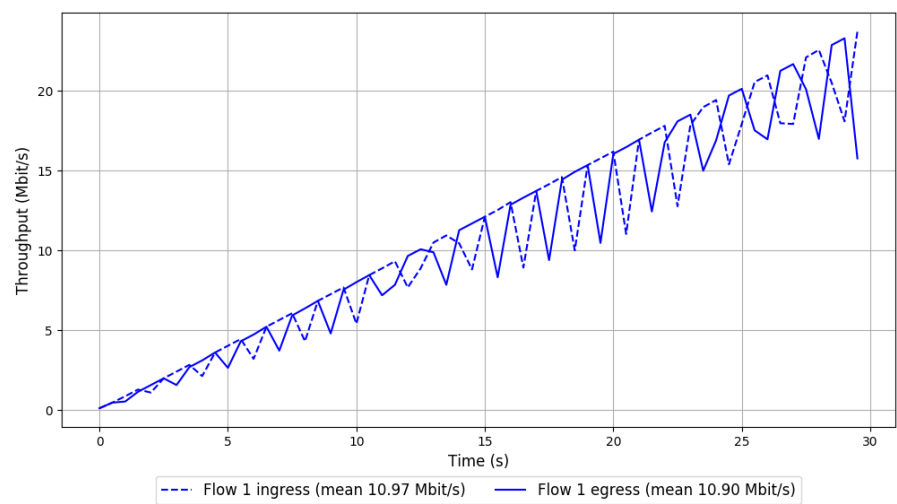
-- Flow 1:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 86.026 ms

Loss rate: 1.21%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-10 09:48:48

End at: 2018-04-10 09:49:18

Local clock offset: -5.54 ms

Remote clock offset: 1.578 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 84.597 ms

Loss rate: 1.24%

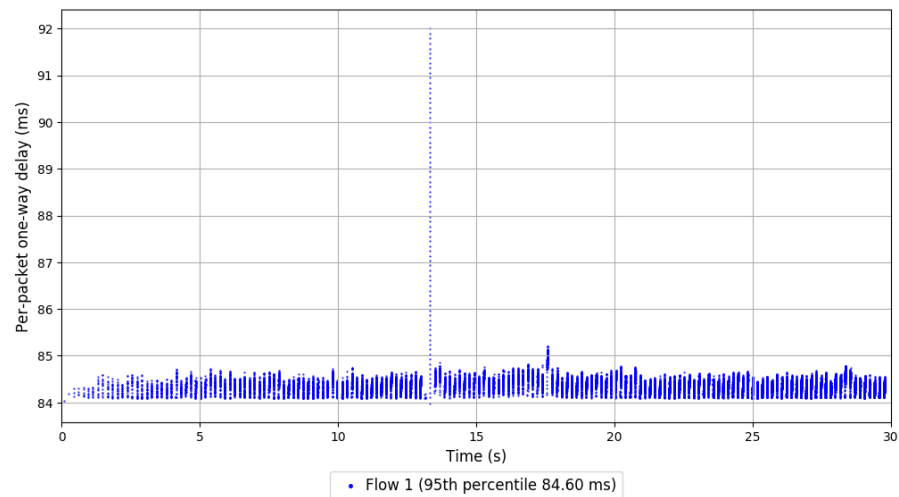
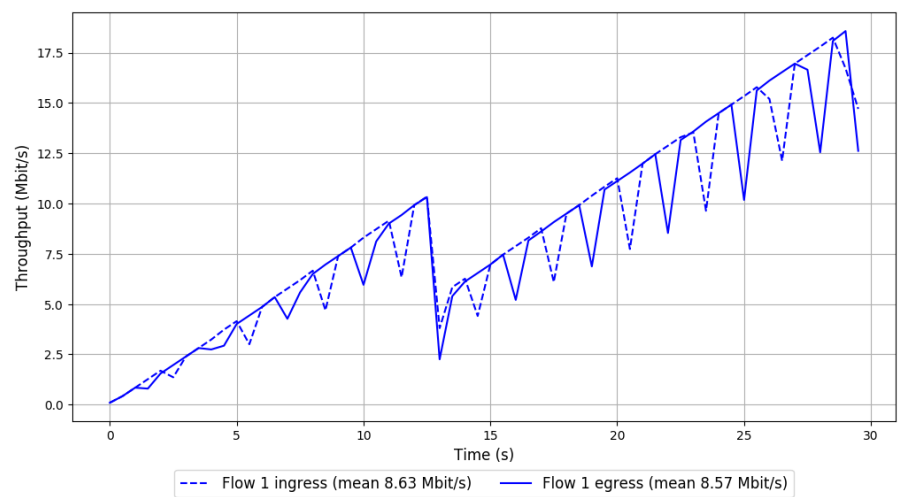
-- Flow 1:

Average throughput: 8.57 Mbit/s

95th percentile per-packet one-way delay: 84.597 ms

Loss rate: 1.24%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-10 10:10:59

End at: 2018-04-10 10:11:29

Local clock offset: -5.515 ms

Remote clock offset: 1.939 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 84.417 ms

Loss rate: 1.07%

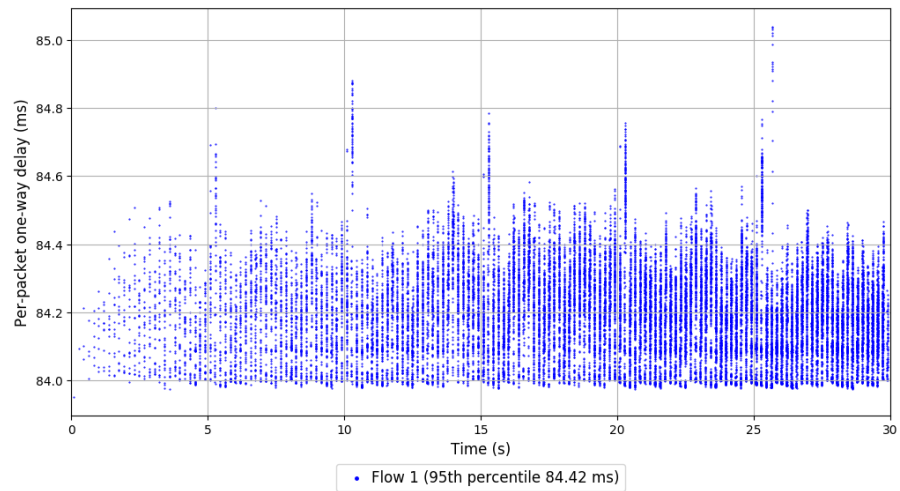
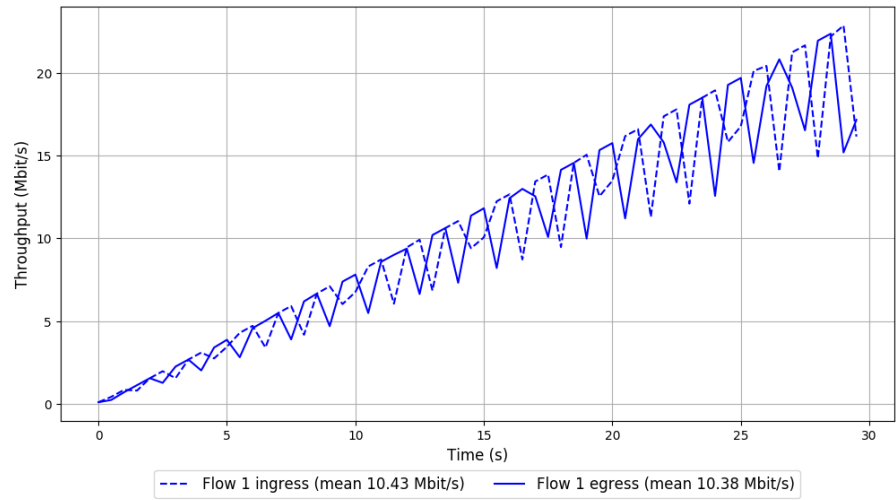
-- Flow 1:

Average throughput: 10.38 Mbit/s

95th percentile per-packet one-way delay: 84.417 ms

Loss rate: 1.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-10 10:33:11

End at: 2018-04-10 10:33:41

Local clock offset: -4.572 ms

Remote clock offset: 3.931 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 84.523 ms

Loss rate: 1.20%

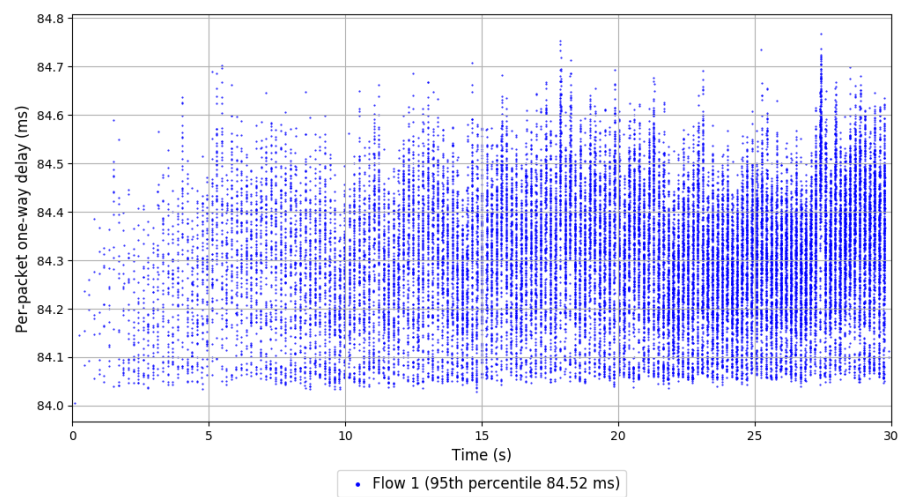
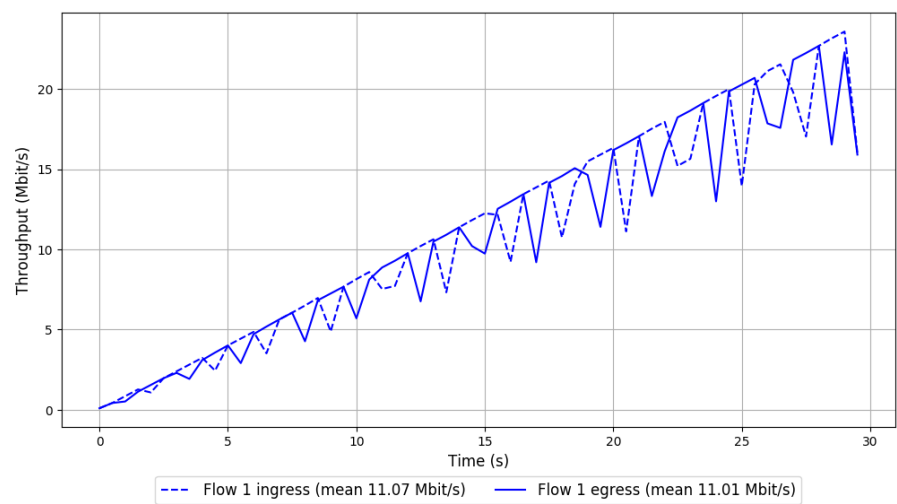
-- Flow 1:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 84.523 ms

Loss rate: 1.20%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-10 10:55:23

End at: 2018-04-10 10:55:53

Local clock offset: -6.152 ms

Remote clock offset: 8.693 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 78.708 ms

Loss rate: 1.19%

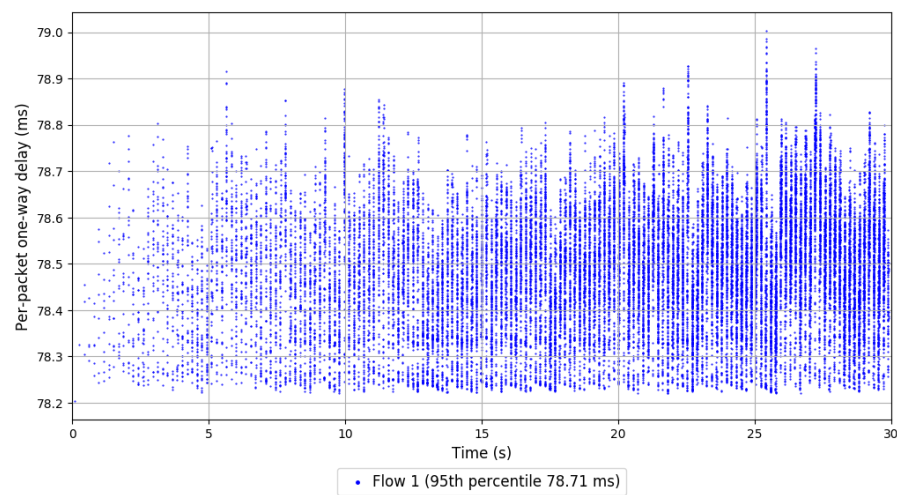
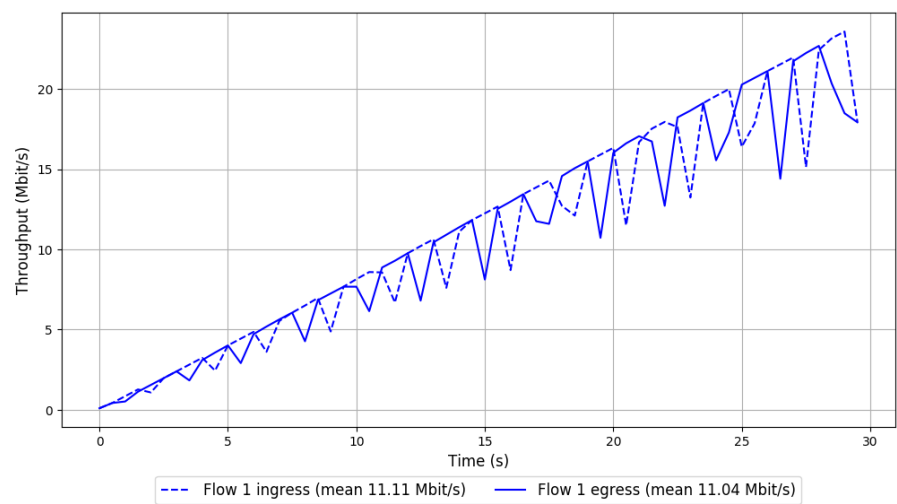
-- Flow 1:

Average throughput: 11.04 Mbit/s

95th percentile per-packet one-way delay: 78.708 ms

Loss rate: 1.19%

Run 6: Report of LEDBAT — Data Link

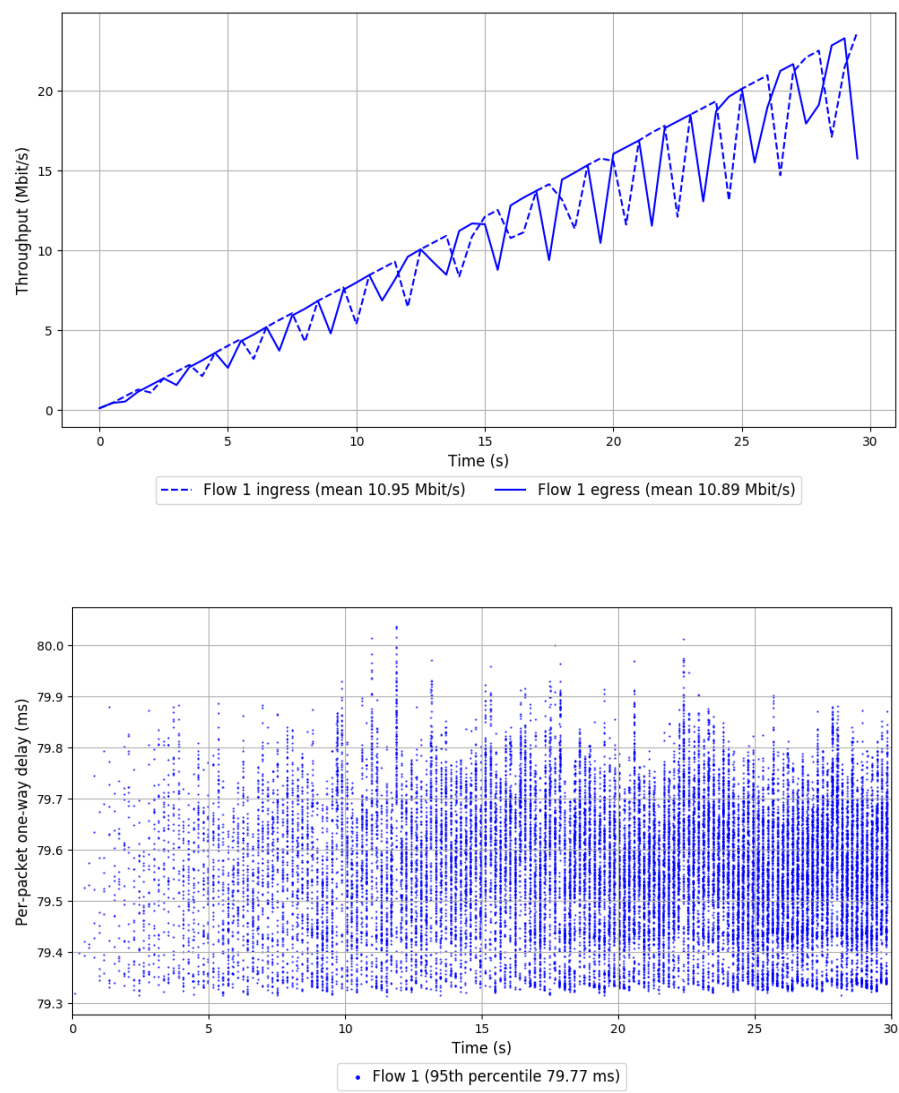


Run 7: Statistics of LEDBAT

Start at: 2018-04-10 11:17:42
End at: 2018-04-10 11:18:12
Local clock offset: -5.494 ms
Remote clock offset: 10.675 ms

Below is generated by plot.py at 2018-04-10 16:33:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 79.771 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 10.89 Mbit/s
95th percentile per-packet one-way delay: 79.771 ms
Loss rate: 1.21%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-10 11:39:50

End at: 2018-04-10 11:40:20

Local clock offset: -5.07 ms

Remote clock offset: 6.271 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 82.111 ms

Loss rate: 1.21%

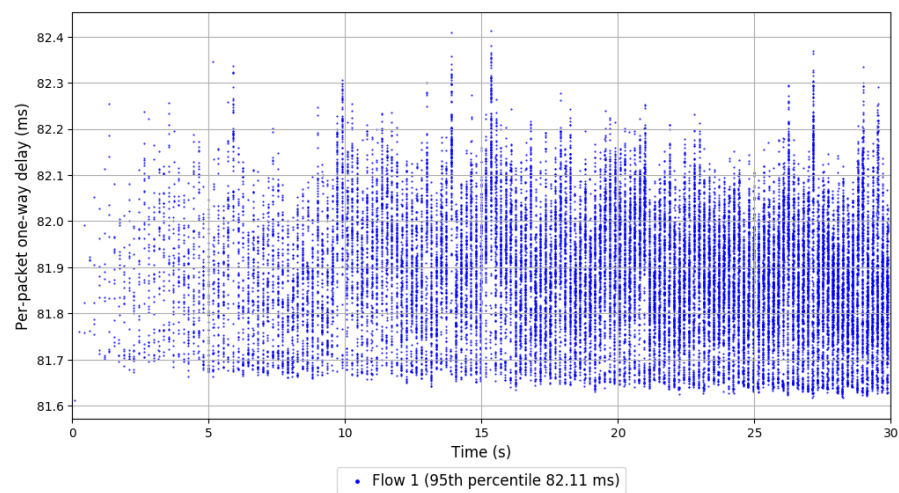
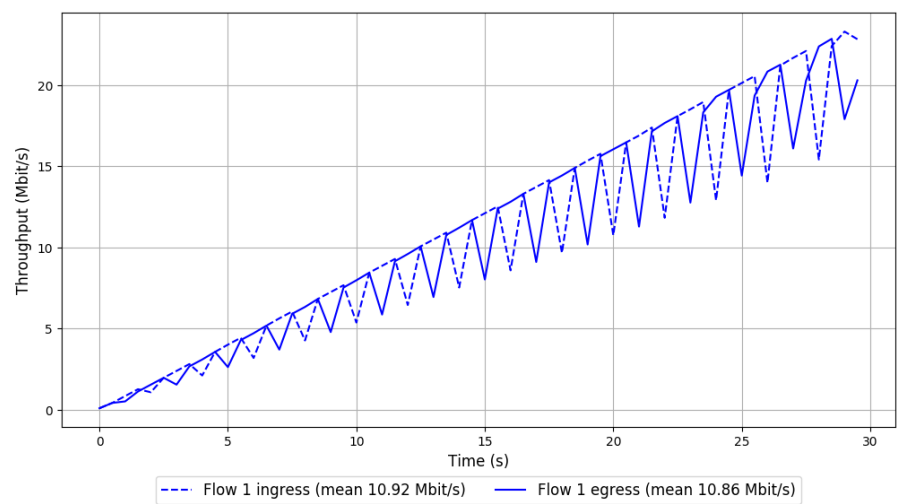
-- Flow 1:

Average throughput: 10.86 Mbit/s

95th percentile per-packet one-way delay: 82.111 ms

Loss rate: 1.21%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-04-10 12:02:09

End at: 2018-04-10 12:02:39

Local clock offset: -6.685 ms

Remote clock offset: 0.908 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 82.847 ms

Loss rate: 1.19%

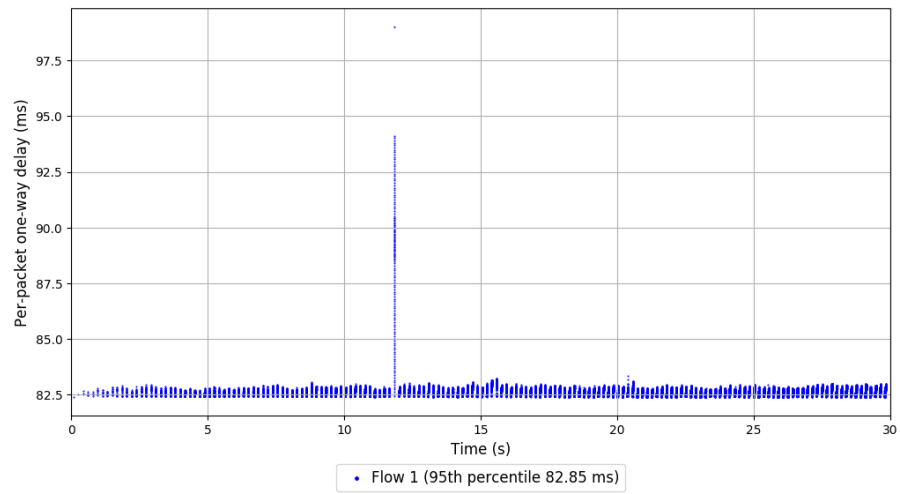
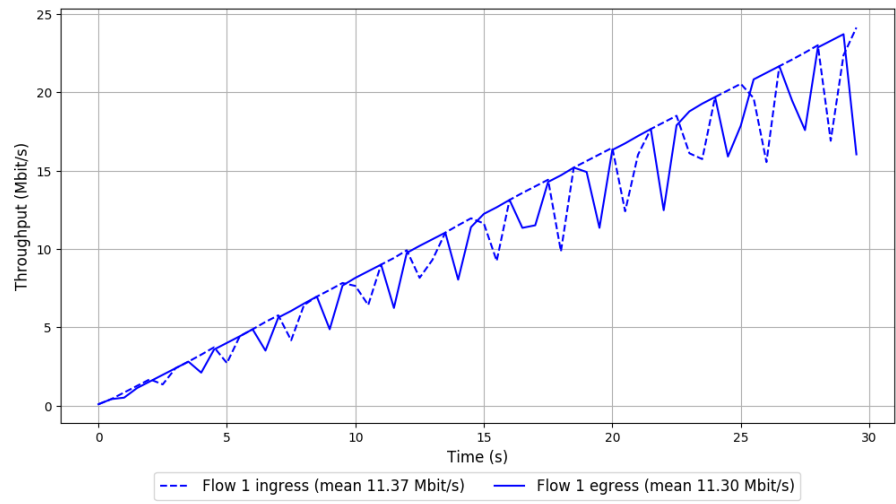
-- Flow 1:

Average throughput: 11.30 Mbit/s

95th percentile per-packet one-way delay: 82.847 ms

Loss rate: 1.19%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-10 12:24:31

End at: 2018-04-10 12:25:01

Local clock offset: -5.226 ms

Remote clock offset: 0.138 ms

Below is generated by plot.py at 2018-04-10 16:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 83.996 ms

Loss rate: 1.20%

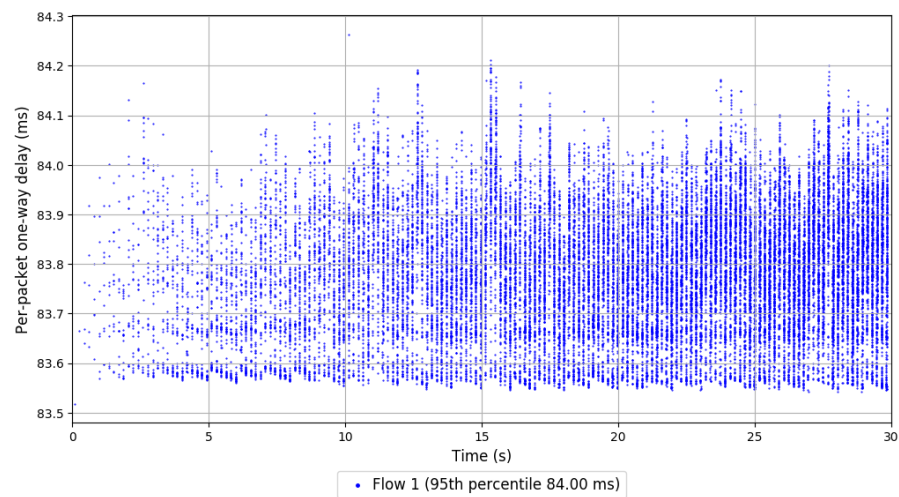
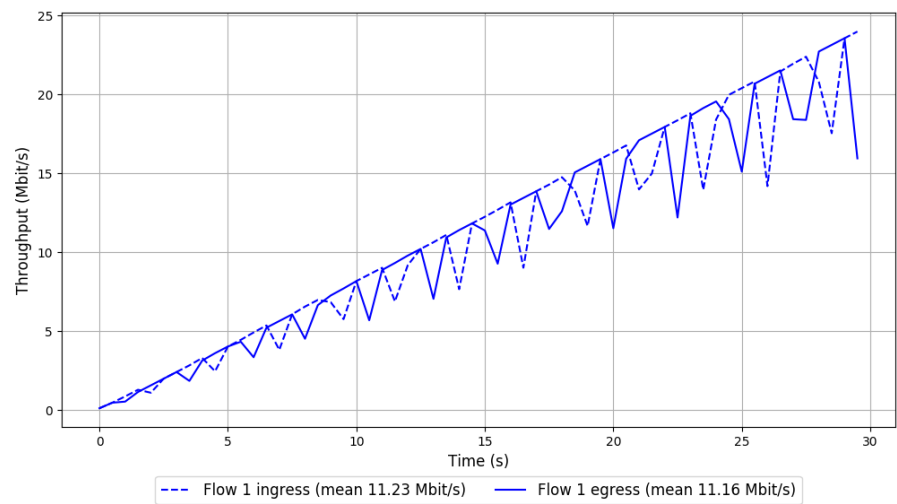
-- Flow 1:

Average throughput: 11.16 Mbit/s

95th percentile per-packet one-way delay: 83.996 ms

Loss rate: 1.20%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

Start at: 2018-04-10 09:02:03

End at: 2018-04-10 09:02:33

Local clock offset: -4.955 ms

Remote clock offset: 8.26 ms

Below is generated by plot.py at 2018-04-10 16:33:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 90.714 ms

Loss rate: 0.70%

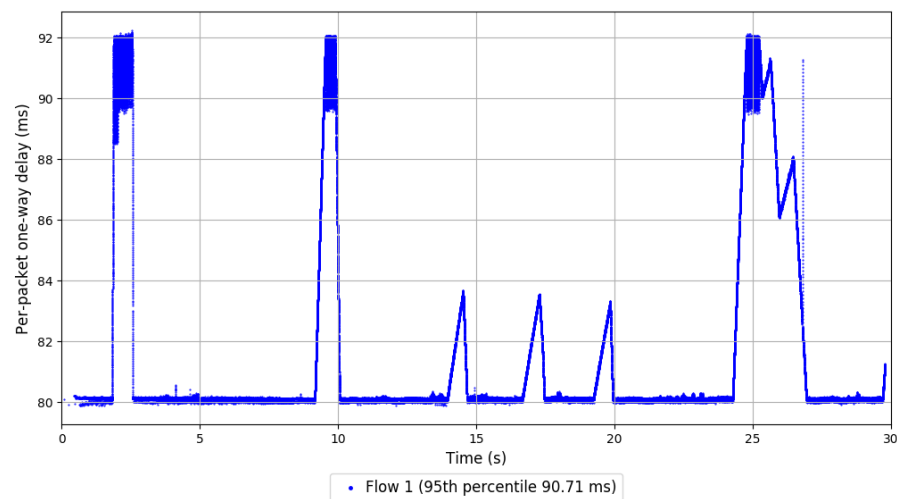
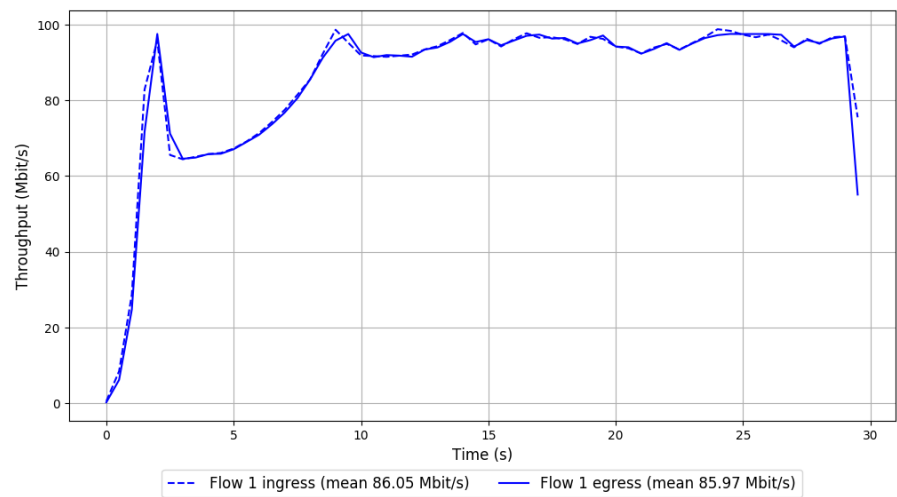
-- Flow 1:

Average throughput: 85.97 Mbit/s

95th percentile per-packet one-way delay: 90.714 ms

Loss rate: 0.70%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-04-10 09:24:09

End at: 2018-04-10 09:24:40

Local clock offset: -4.87 ms

Remote clock offset: 1.538 ms

Below is generated by plot.py at 2018-04-10 16:33:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 95.356 ms

Loss rate: 0.67%

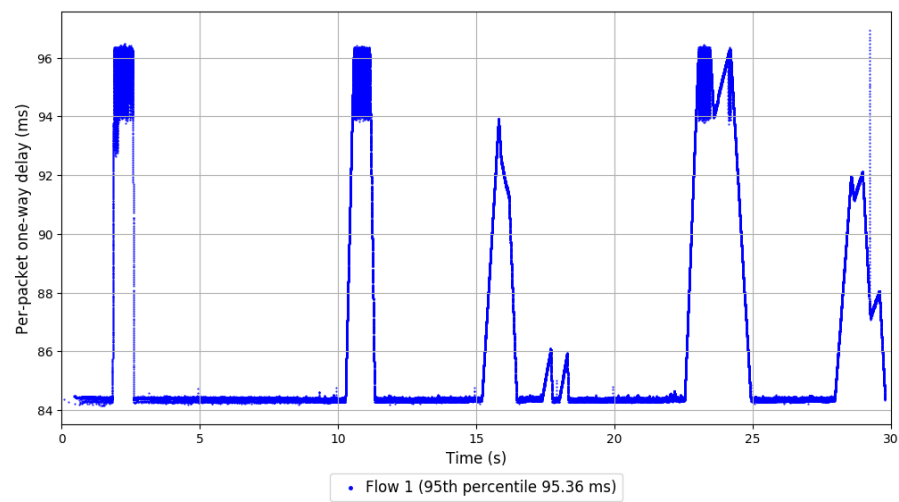
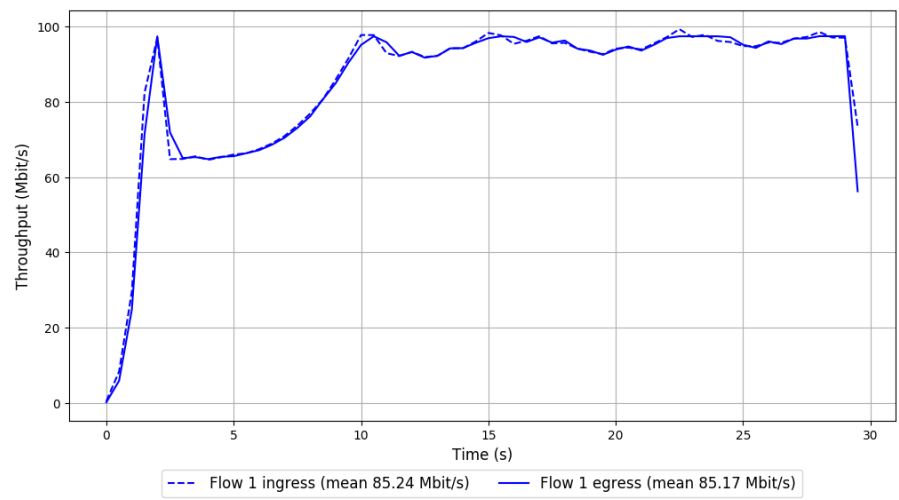
-- Flow 1:

Average throughput: 85.17 Mbit/s

95th percentile per-packet one-way delay: 95.356 ms

Loss rate: 0.67%

Run 2: Report of PCC — Data Link



Run 3: Statistics of PCC

Start at: 2018-04-10 09:46:21

End at: 2018-04-10 09:46:51

Local clock offset: -4.81 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-04-10 16:33:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 94.436 ms

Loss rate: 0.70%

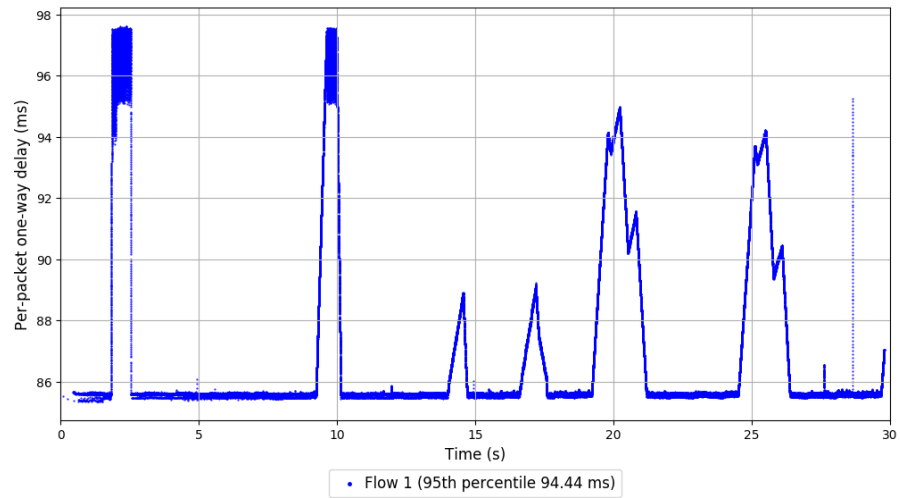
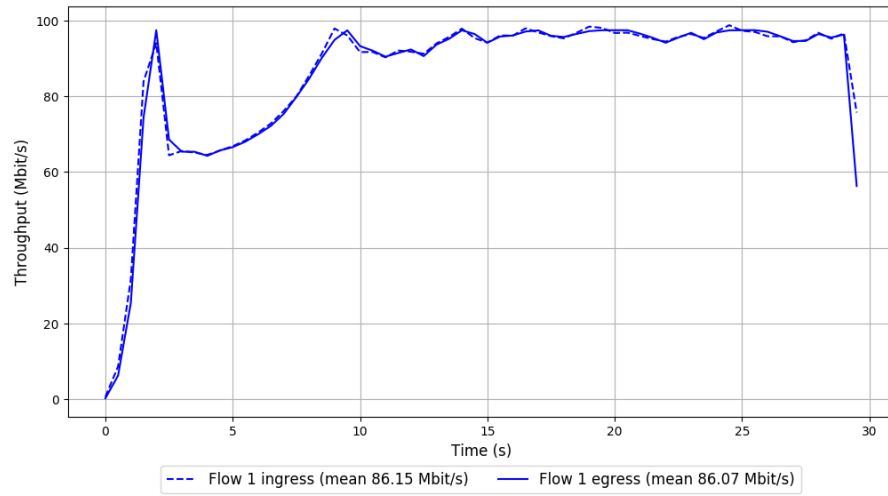
-- Flow 1:

Average throughput: 86.07 Mbit/s

95th percentile per-packet one-way delay: 94.436 ms

Loss rate: 0.70%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2018-04-10 10:08:32

End at: 2018-04-10 10:09:02

Local clock offset: -6.29 ms

Remote clock offset: 2.712 ms

Below is generated by plot.py at 2018-04-10 16:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 94.446 ms

Loss rate: 0.69%

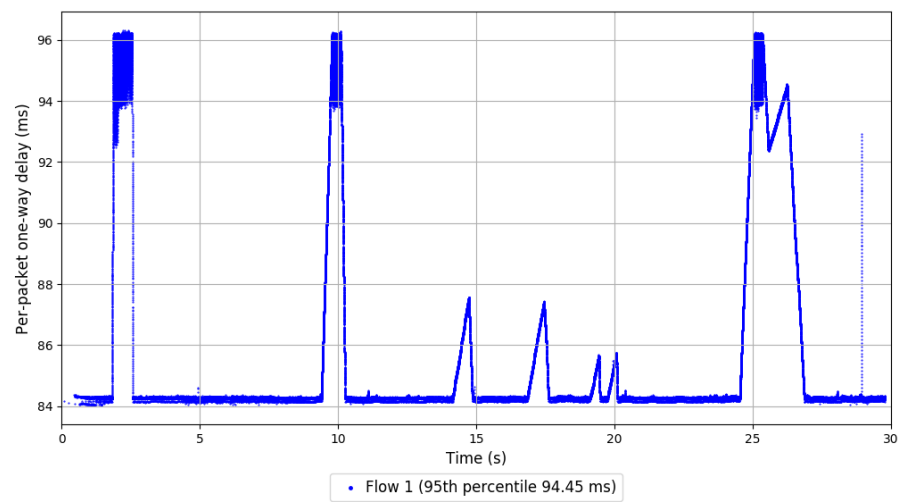
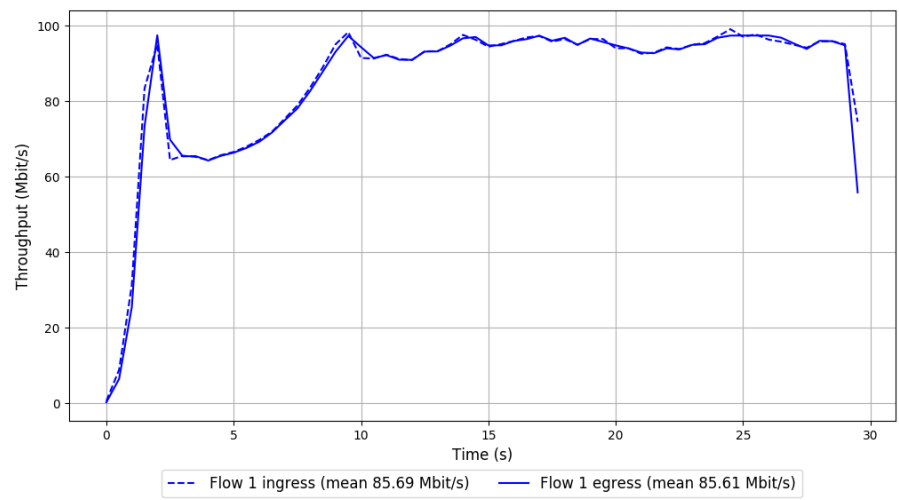
-- Flow 1:

Average throughput: 85.61 Mbit/s

95th percentile per-packet one-way delay: 94.446 ms

Loss rate: 0.69%

Run 4: Report of PCC — Data Link



Run 5: Statistics of PCC

Start at: 2018-04-10 10:30:44

End at: 2018-04-10 10:31:14

Local clock offset: -6.106 ms

Remote clock offset: 3.792 ms

Below is generated by plot.py at 2018-04-10 16:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 83.800 ms

Loss rate: 1.62%

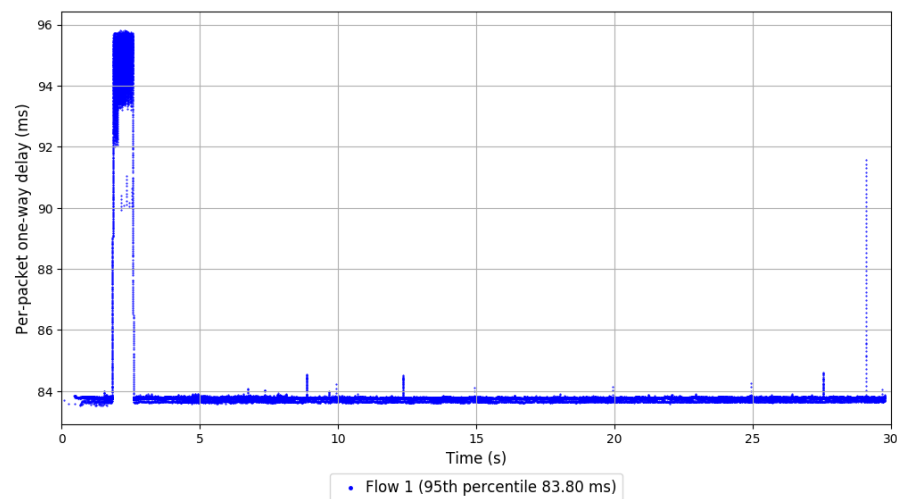
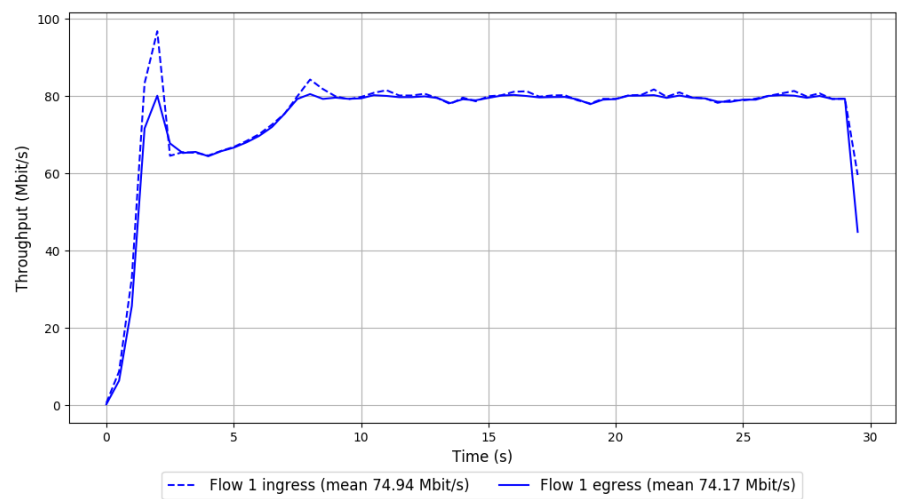
-- Flow 1:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 83.800 ms

Loss rate: 1.62%

Run 5: Report of PCC — Data Link



Run 6: Statistics of PCC

Start at: 2018-04-10 10:52:56

End at: 2018-04-10 10:53:26

Local clock offset: -5.378 ms

Remote clock offset: 8.661 ms

Below is generated by plot.py at 2018-04-10 16:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 81.017 ms

Loss rate: 1.71%

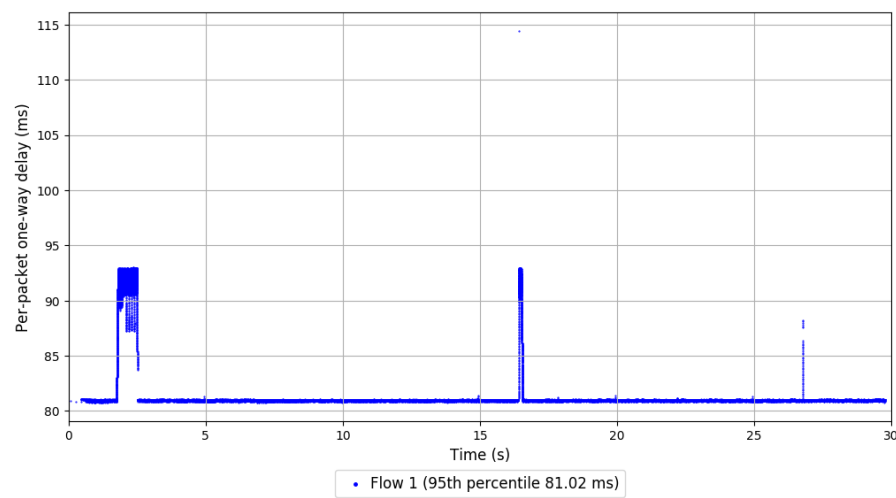
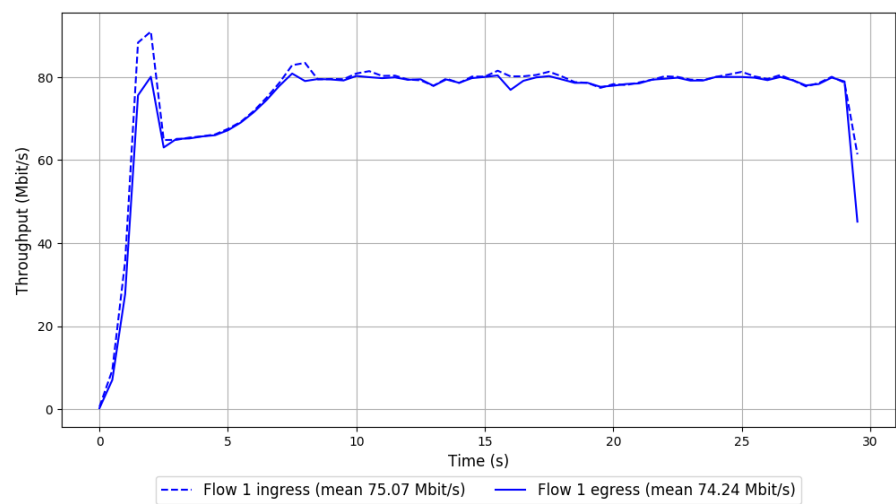
-- Flow 1:

Average throughput: 74.24 Mbit/s

95th percentile per-packet one-way delay: 81.017 ms

Loss rate: 1.71%

Run 6: Report of PCC — Data Link

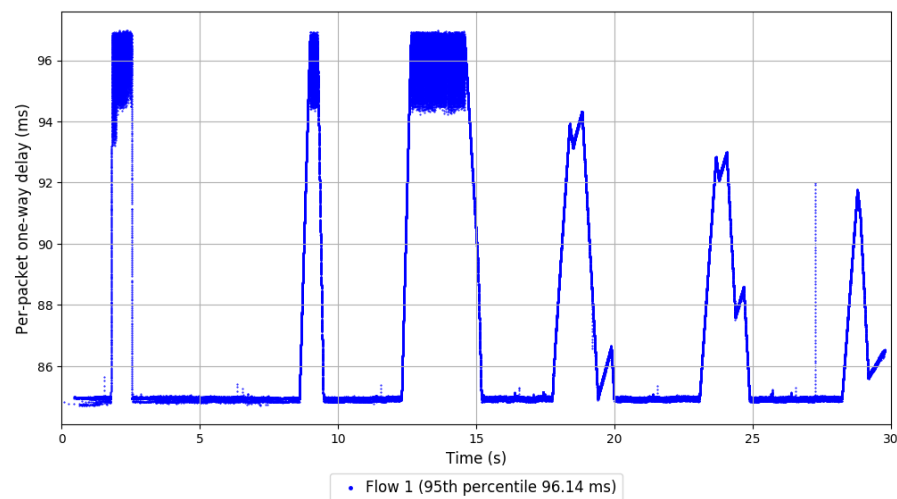
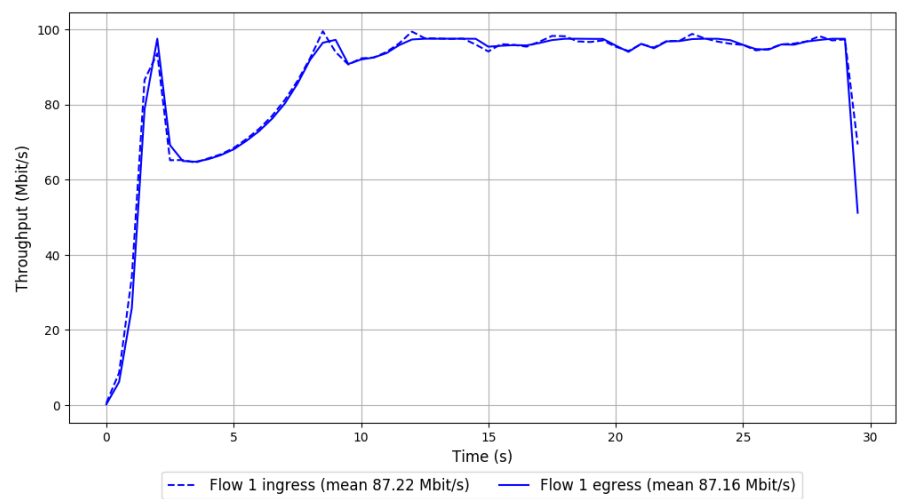


Run 7: Statistics of PCC

Start at: 2018-04-10 11:15:15
End at: 2018-04-10 11:15:45
Local clock offset: -6.292 ms
Remote clock offset: 4.06 ms

Below is generated by plot.py at 2018-04-10 16:34:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 96.144 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 87.16 Mbit/s
95th percentile per-packet one-way delay: 96.144 ms
Loss rate: 0.67%

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2018-04-10 11:37:22

End at: 2018-04-10 11:37:52

Local clock offset: -5.893 ms

Remote clock offset: 7.398 ms

Below is generated by plot.py at 2018-04-10 16:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 91.350 ms

Loss rate: 0.71%

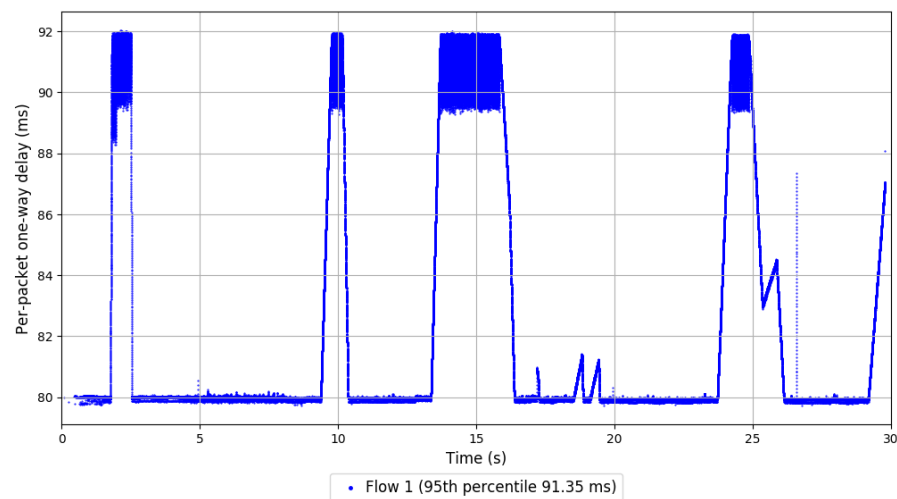
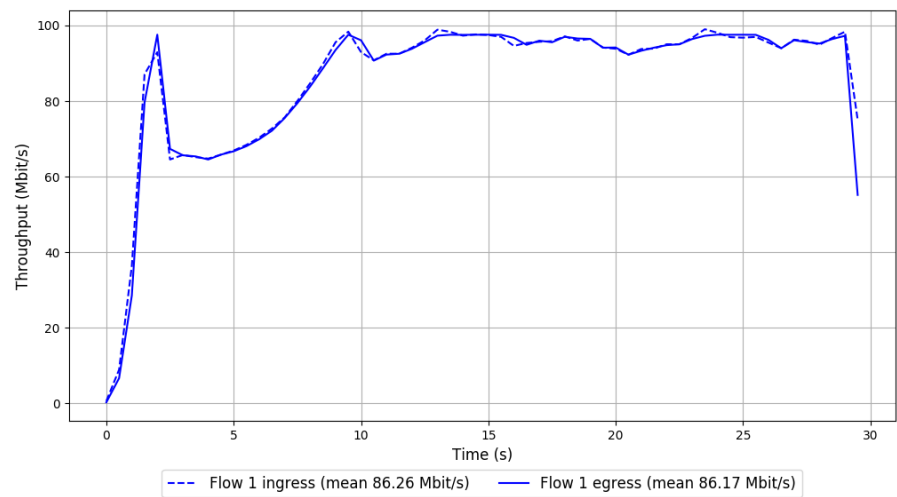
-- Flow 1:

Average throughput: 86.17 Mbit/s

95th percentile per-packet one-way delay: 91.350 ms

Loss rate: 0.71%

Run 8: Report of PCC — Data Link



Run 9: Statistics of PCC

Start at: 2018-04-10 11:59:42

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

Local clock offset: -5.167 ms

Remote clock offset: 5.747 ms

Below is generated by plot.py at 2018-04-10 16:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 87.611 ms

Loss rate: 0.70%

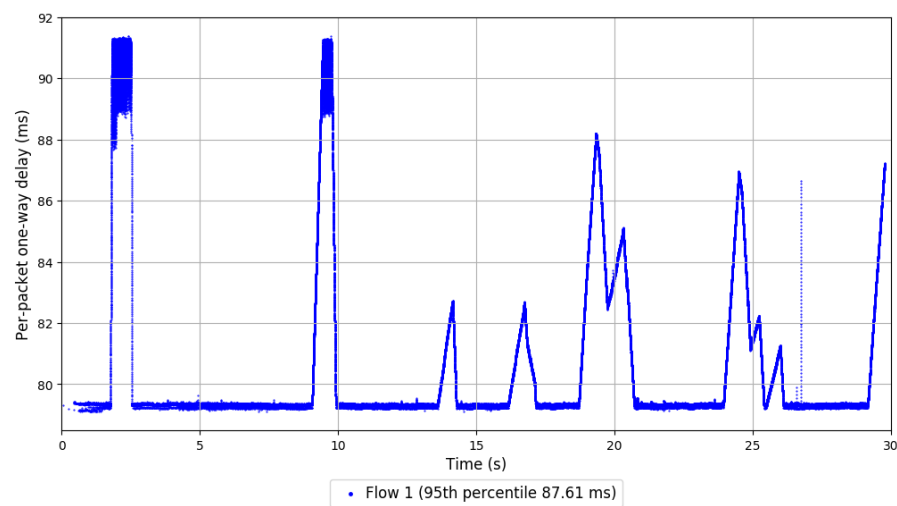
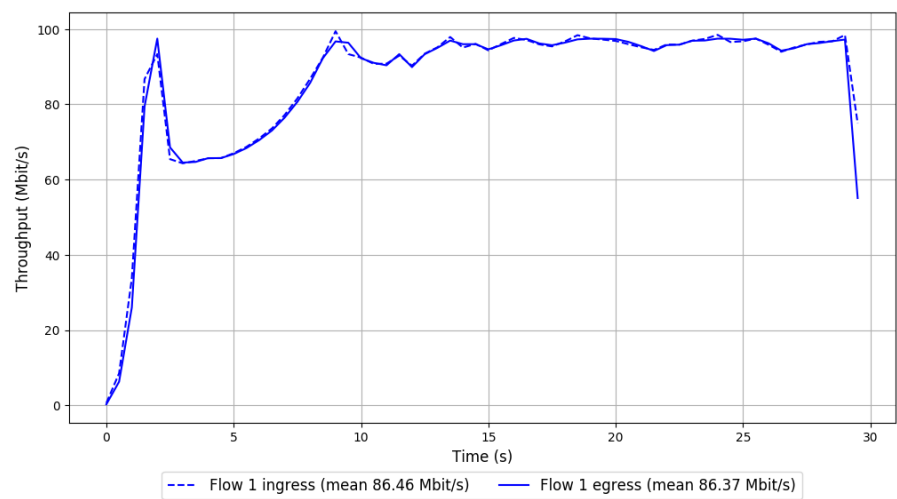
-- Flow 1:

Average throughput: 86.37 Mbit/s

95th percentile per-packet one-way delay: 87.611 ms

Loss rate: 0.70%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2018-04-10 12:22:04

End at: 2018-04-10 12:22:34

Local clock offset: -5.966 ms

Remote clock offset: 5.85 ms

Below is generated by plot.py at 2018-04-10 16:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 89.548 ms

Loss rate: 0.68%

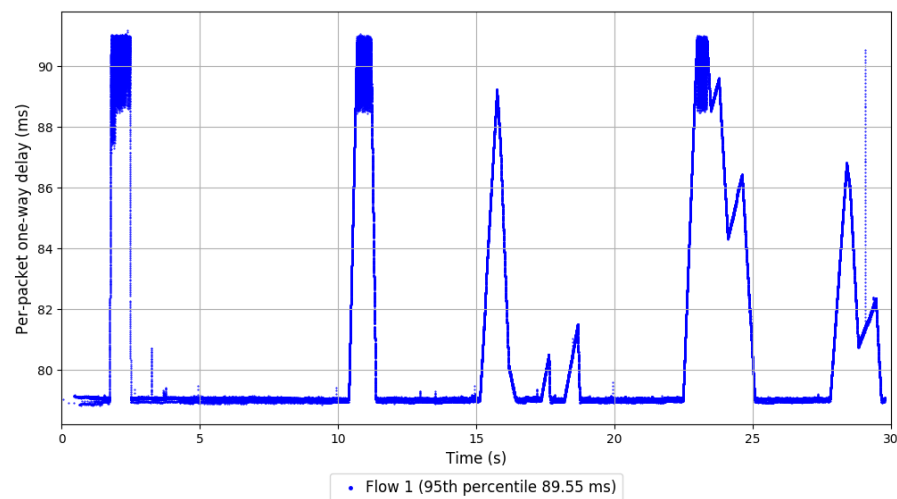
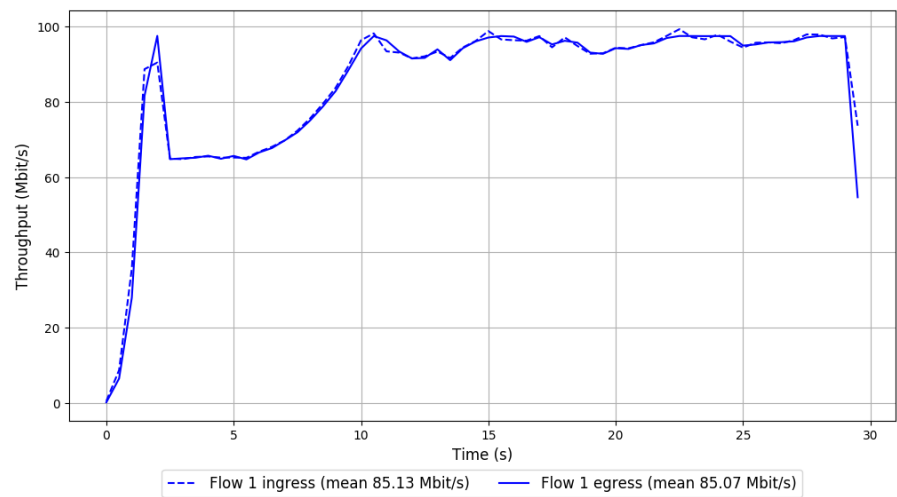
-- Flow 1:

Average throughput: 85.07 Mbit/s

95th percentile per-packet one-way delay: 89.548 ms

Loss rate: 0.68%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

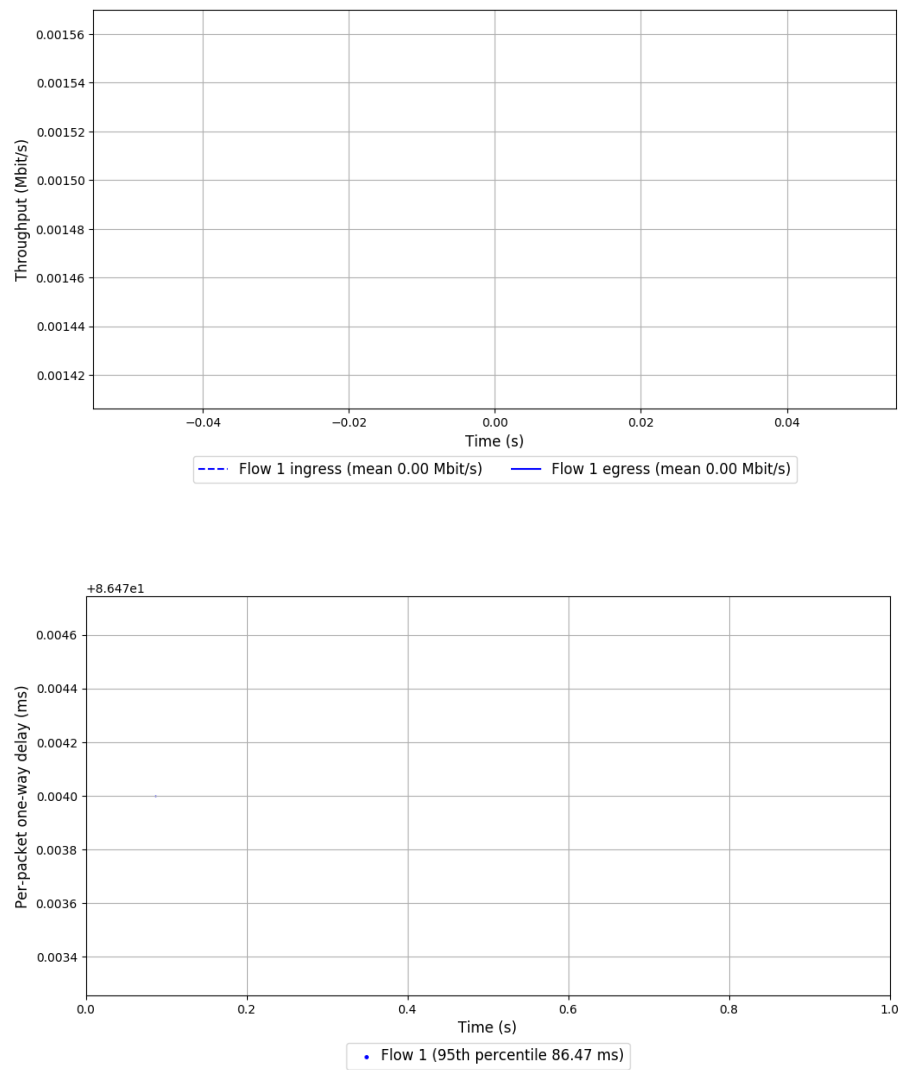
Start at: 2018-04-10 09:19:16

End at: 2018-04-10 09:19:46

Local clock offset: -4.93 ms

Remote clock offset: 1.492 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-10 09:41:27

End at: 2018-04-10 09:41:57

Local clock offset: -4.845 ms

Remote clock offset: 1.389 ms

Below is generated by plot.py at 2018-04-10 16:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 97.854 ms

Loss rate: 0.85%

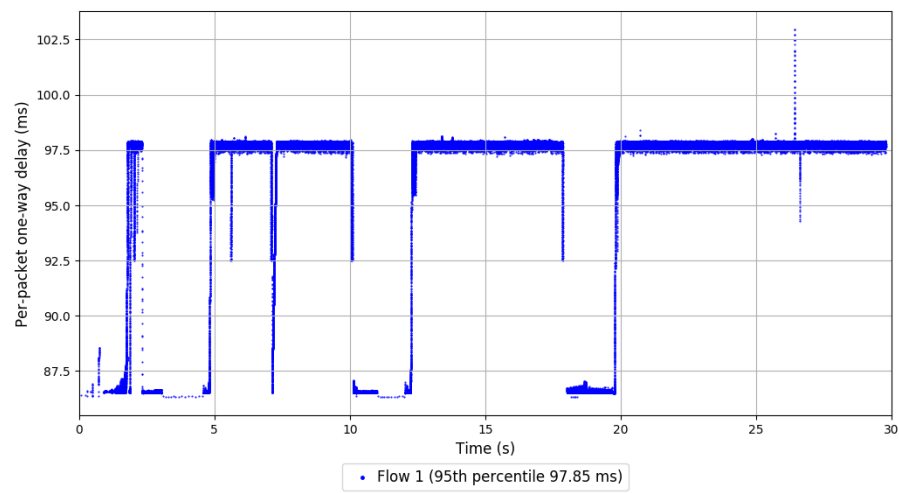
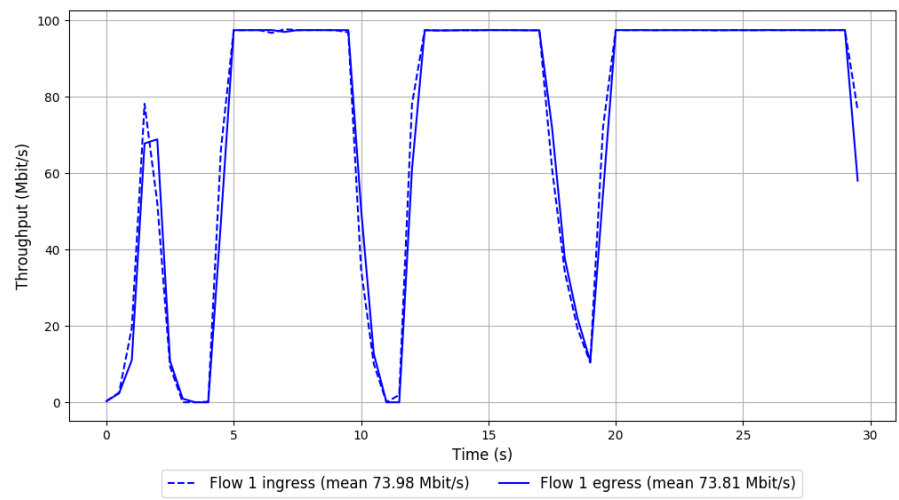
-- Flow 1:

Average throughput: 73.81 Mbit/s

95th percentile per-packet one-way delay: 97.854 ms

Loss rate: 0.85%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-10 10:03:38

End at: 2018-04-10 10:04:08

Local clock offset: -5.525 ms

Remote clock offset: 7.452 ms

Below is generated by plot.py at 2018-04-10 16:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.47 Mbit/s

95th percentile per-packet one-way delay: 81.459 ms

Loss rate: 0.78%

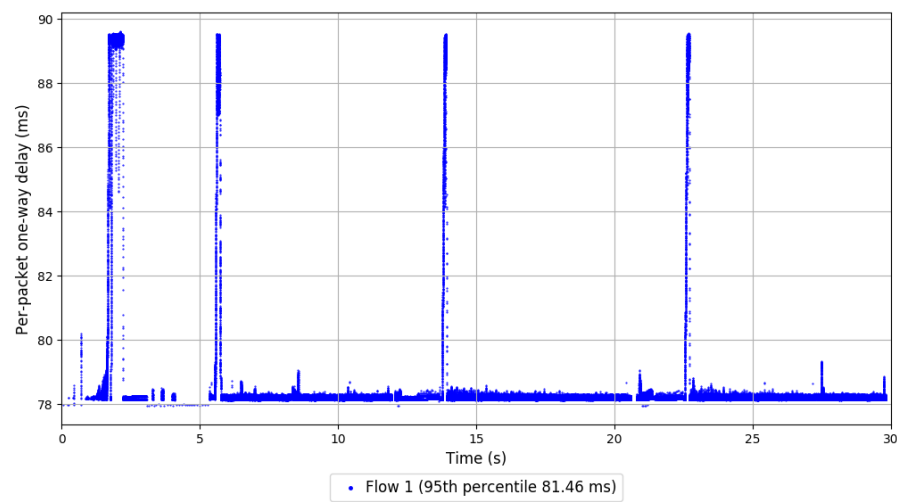
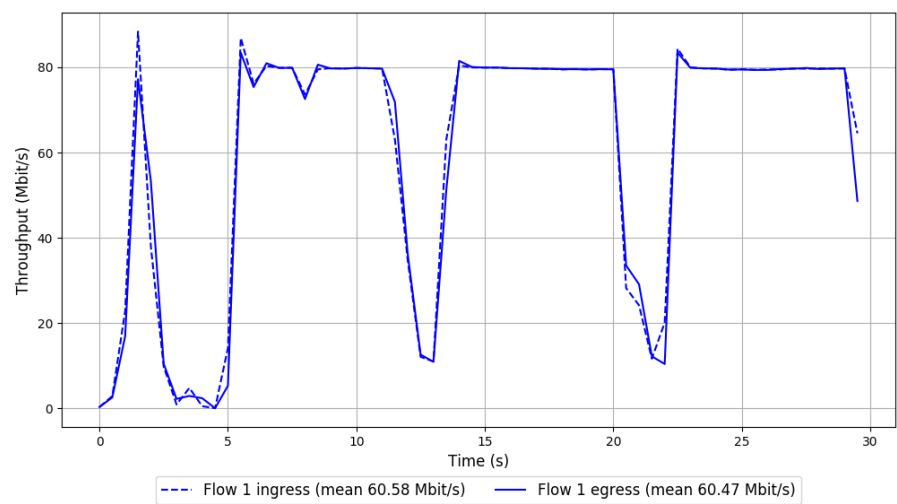
-- Flow 1:

Average throughput: 60.47 Mbit/s

95th percentile per-packet one-way delay: 81.459 ms

Loss rate: 0.78%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-10 10:25:49

End at: 2018-04-10 10:26:19

Local clock offset: -6.134 ms

Remote clock offset: 2.615 ms

Below is generated by plot.py at 2018-04-10 16:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 94.262 ms

Loss rate: 0.85%

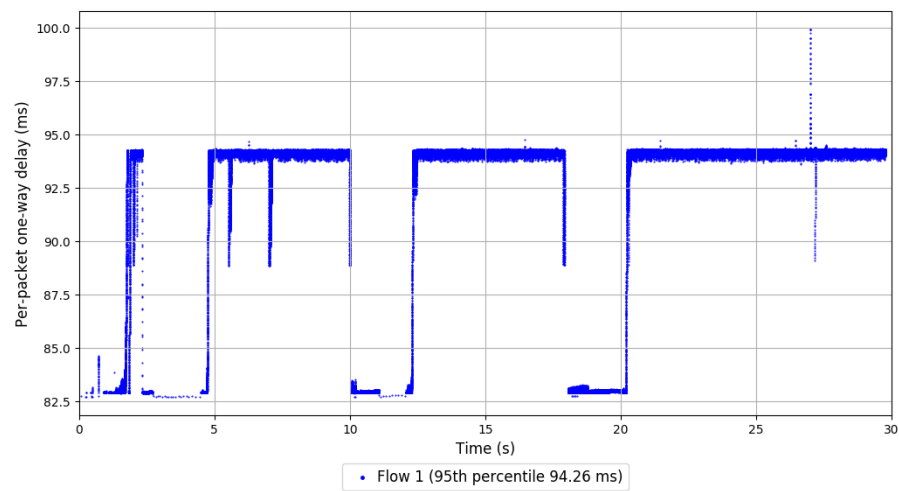
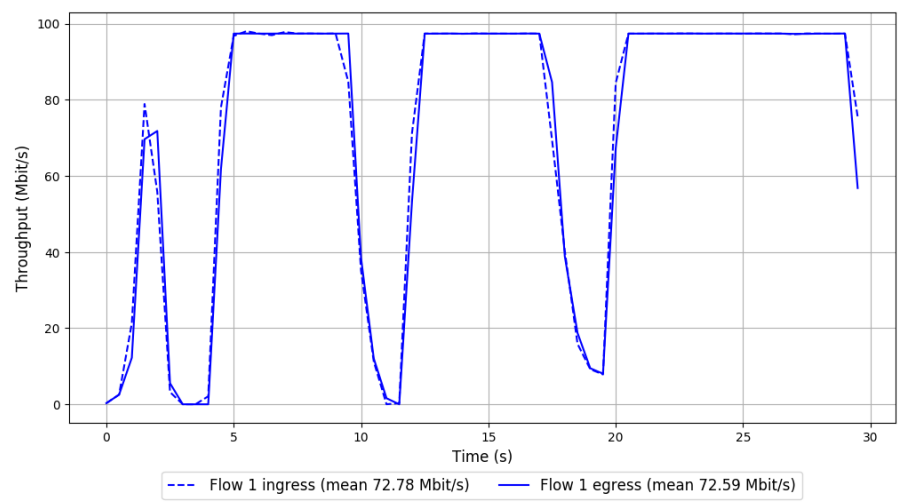
-- Flow 1:

Average throughput: 72.59 Mbit/s

95th percentile per-packet one-way delay: 94.262 ms

Loss rate: 0.85%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-10 10:48:02

End at: 2018-04-10 10:48:32

Local clock offset: -4.565 ms

Remote clock offset: 9.29 ms

Below is generated by plot.py at 2018-04-10 16:35:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 81.482 ms

Loss rate: 1.29%

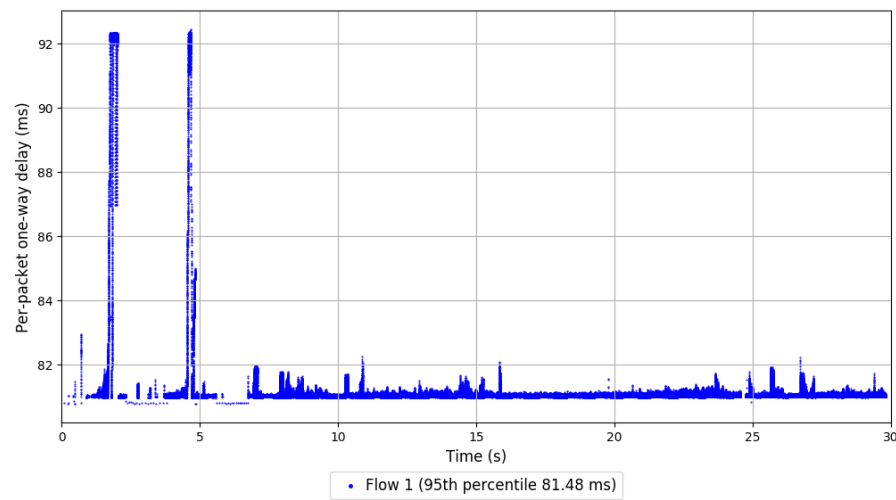
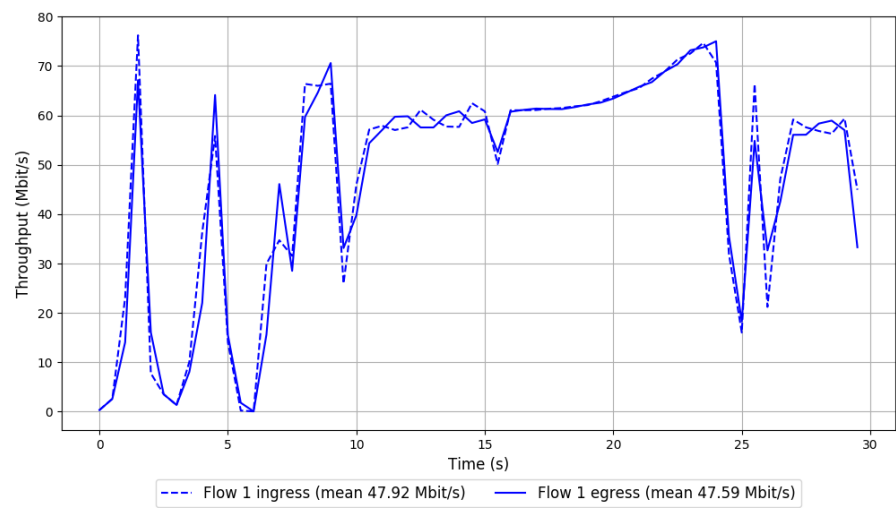
-- Flow 1:

Average throughput: 47.59 Mbit/s

95th percentile per-packet one-way delay: 81.482 ms

Loss rate: 1.29%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-10 11:10:21

End at: 2018-04-10 11:10:51

Local clock offset: -5.44 ms

Remote clock offset: 4.82 ms

Below is generated by plot.py at 2018-04-10 16:35:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 94.952 ms

Loss rate: 1.03%

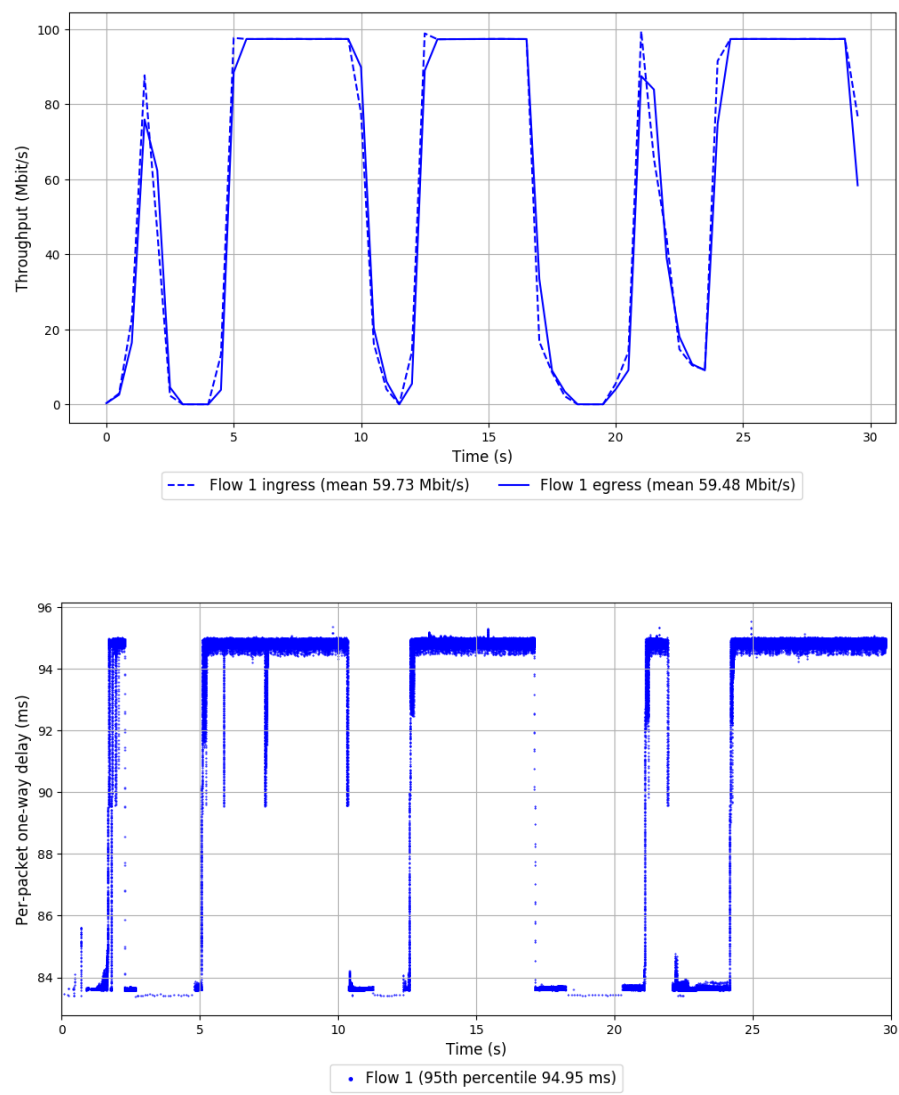
-- Flow 1:

Average throughput: 59.48 Mbit/s

95th percentile per-packet one-way delay: 94.952 ms

Loss rate: 1.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-10 11:32:27

End at: 2018-04-10 11:32:57

Local clock offset: -5.819 ms

Remote clock offset: 8.362 ms

Below is generated by plot.py at 2018-04-10 16:35:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 91.374 ms

Loss rate: 0.90%

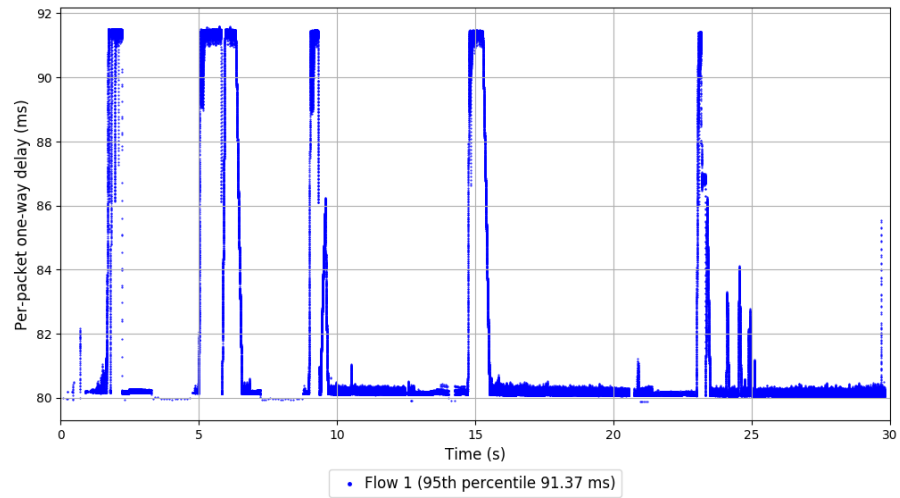
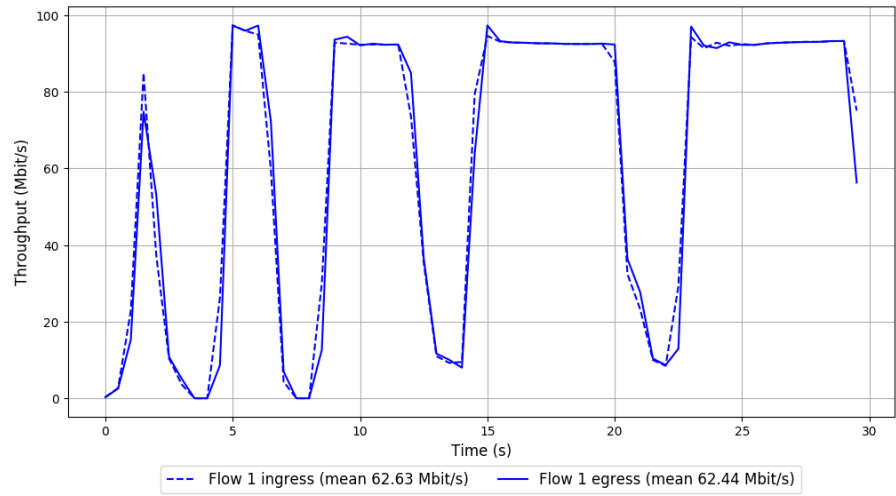
-- Flow 1:

Average throughput: 62.44 Mbit/s

95th percentile per-packet one-way delay: 91.374 ms

Loss rate: 0.90%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-10 11:54:48

End at: 2018-04-10 11:55:18

Local clock offset: -6.75 ms

Remote clock offset: 6.735 ms

Below is generated by plot.py at 2018-04-10 16:36:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 89.675 ms

Loss rate: 1.00%

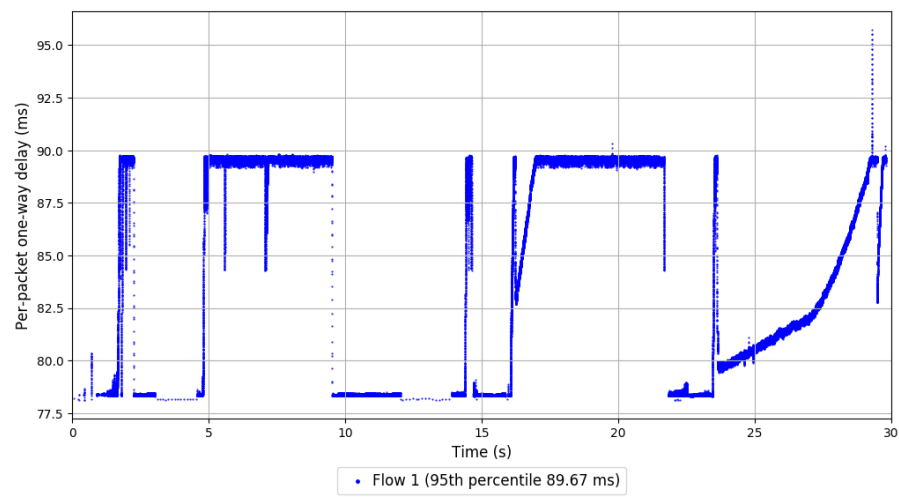
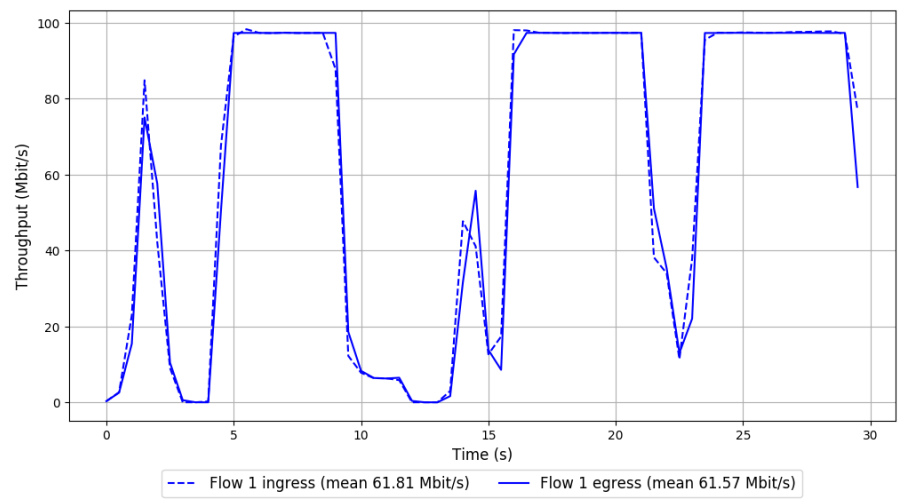
-- Flow 1:

Average throughput: 61.57 Mbit/s

95th percentile per-packet one-way delay: 89.675 ms

Loss rate: 1.00%

Run 8: Report of QUIC Cubic — Data Link

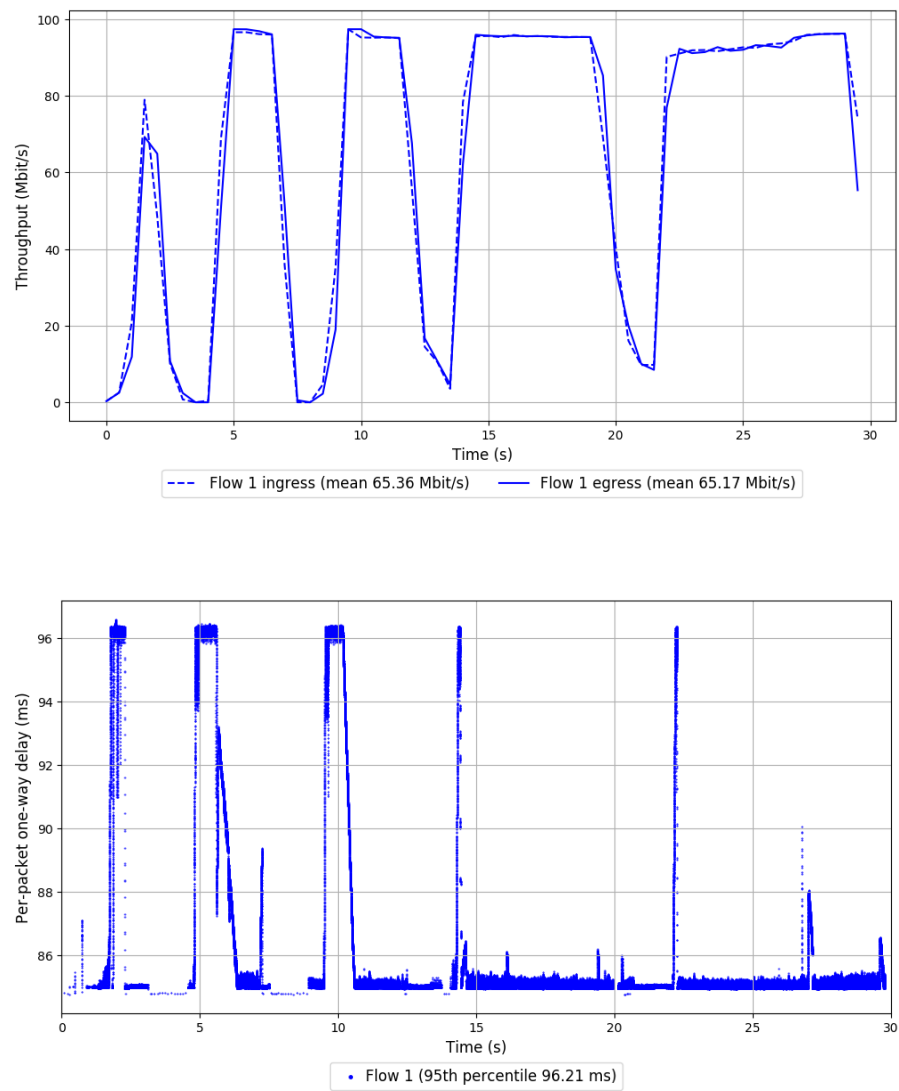


Run 9: Statistics of QUIC Cubic

Start at: 2018-04-10 12:17:09
End at: 2018-04-10 12:17:39
Local clock offset: -6.759 ms
Remote clock offset: -0.565 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 96.209 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 65.17 Mbit/s
95th percentile per-packet one-way delay: 96.209 ms
Loss rate: 0.90%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-10 12:39:20

End at: 2018-04-10 12:39:51

Local clock offset: -6.707 ms

Remote clock offset: -0.555 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.18 Mbit/s

95th percentile per-packet one-way delay: 94.497 ms

Loss rate: 1.10%

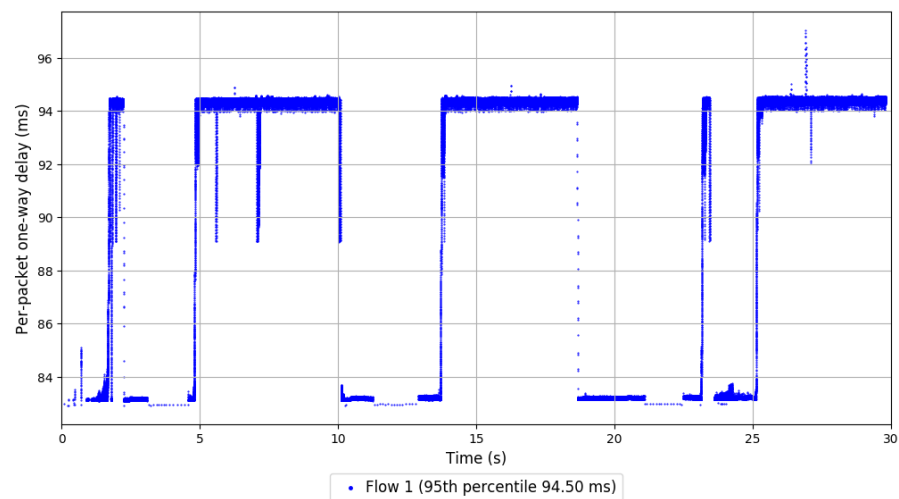
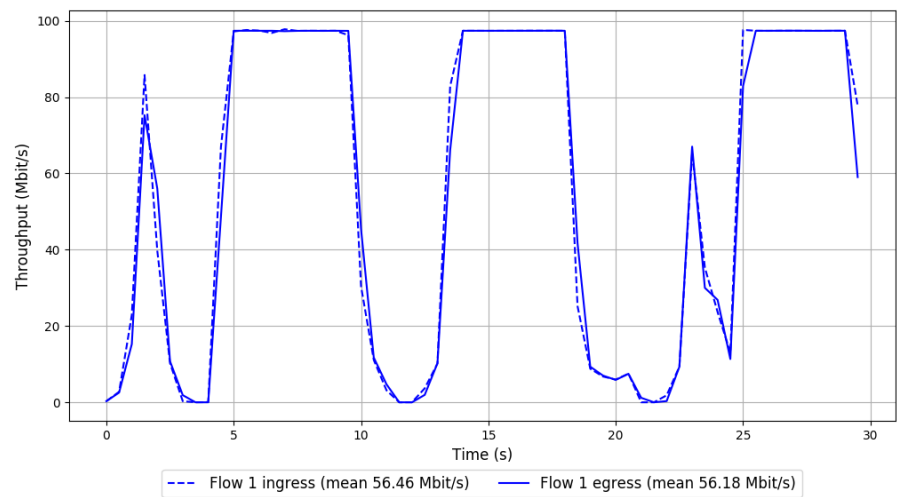
-- Flow 1:

Average throughput: 56.18 Mbit/s

95th percentile per-packet one-way delay: 94.497 ms

Loss rate: 1.10%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-04-10 09:11:53

End at: 2018-04-10 09:12:23

Local clock offset: -6.496 ms

Remote clock offset: 7.254 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 79.303 ms

Loss rate: 0.51%

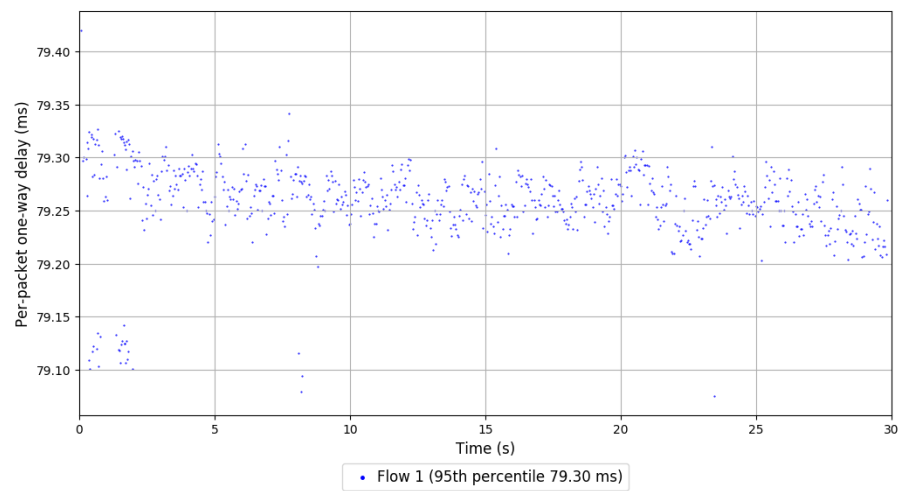
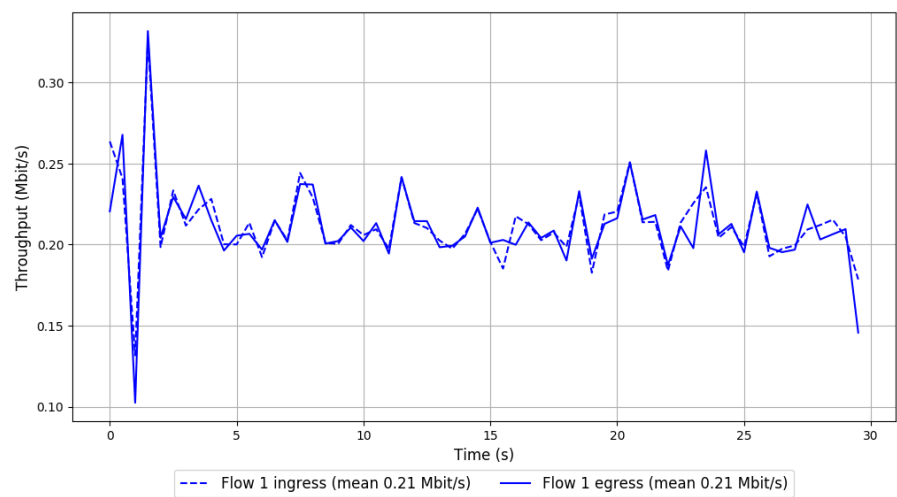
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 79.303 ms

Loss rate: 0.51%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-10 09:34:02

End at: 2018-04-10 09:34:32

Local clock offset: -5.634 ms

Remote clock offset: 7.075 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.032 ms

Loss rate: 0.51%

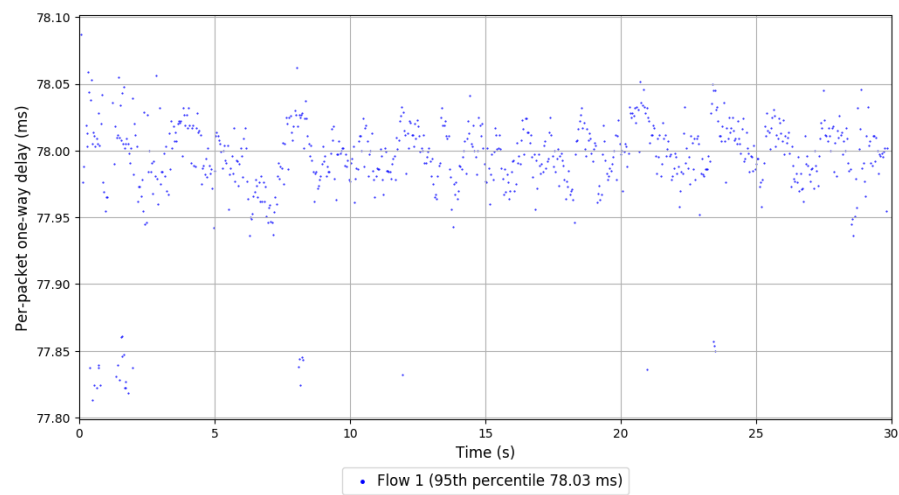
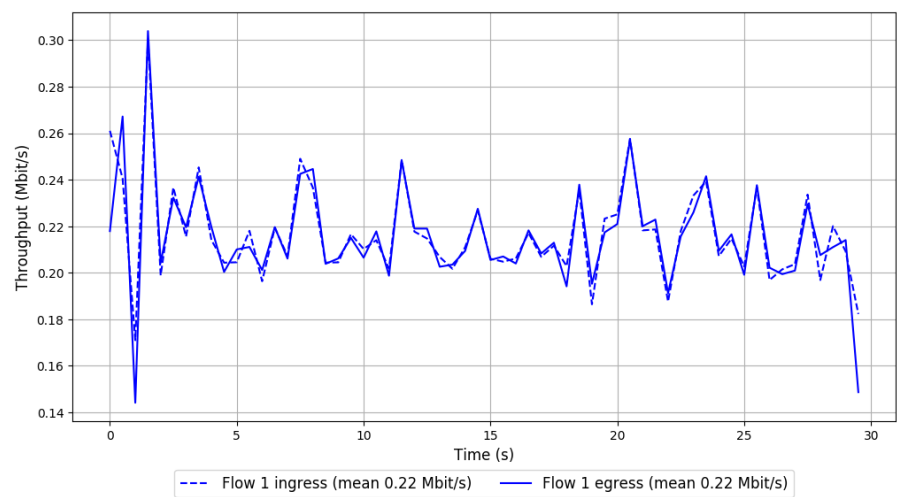
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.032 ms

Loss rate: 0.51%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-10 09:56:15

End at: 2018-04-10 09:56:45

Local clock offset: -5.615 ms

Remote clock offset: 1.664 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.738 ms

Loss rate: 0.64%

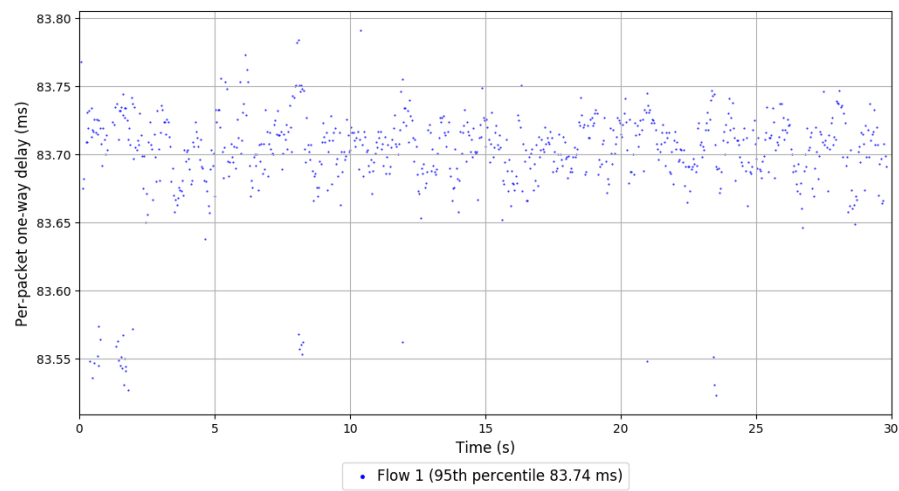
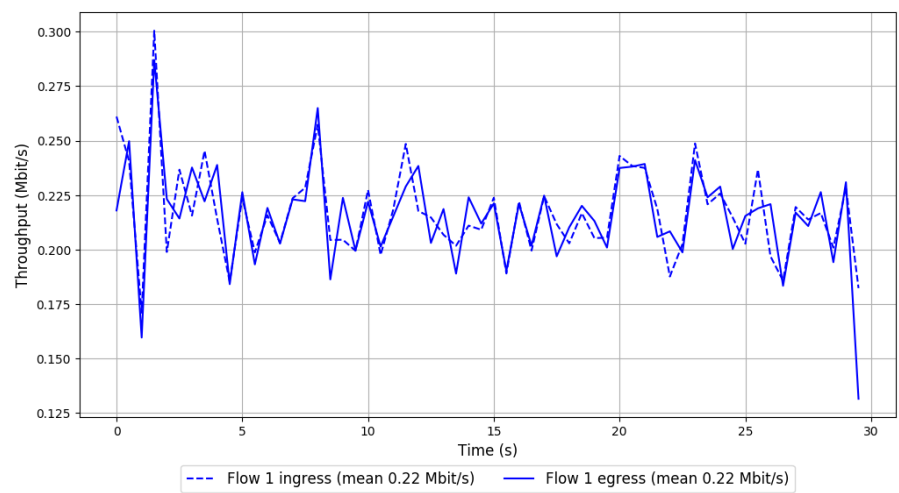
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.738 ms

Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-10 10:18:24

End at: 2018-04-10 10:18:54

Local clock offset: -5.384 ms

Remote clock offset: 7.566 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.108 ms

Loss rate: 0.51%

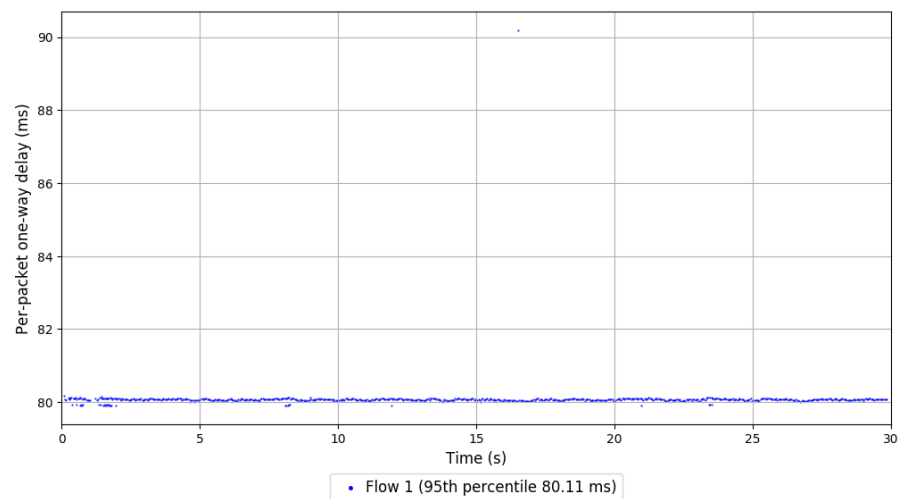
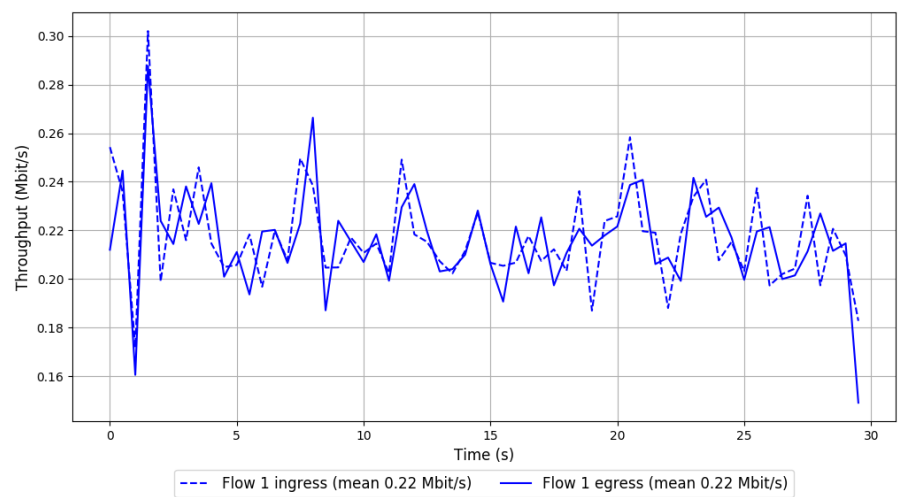
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 80.108 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-10 10:40:39

End at: 2018-04-10 10:41:09

Local clock offset: -5.283 ms

Remote clock offset: 9.067 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.482 ms

Loss rate: 0.51%

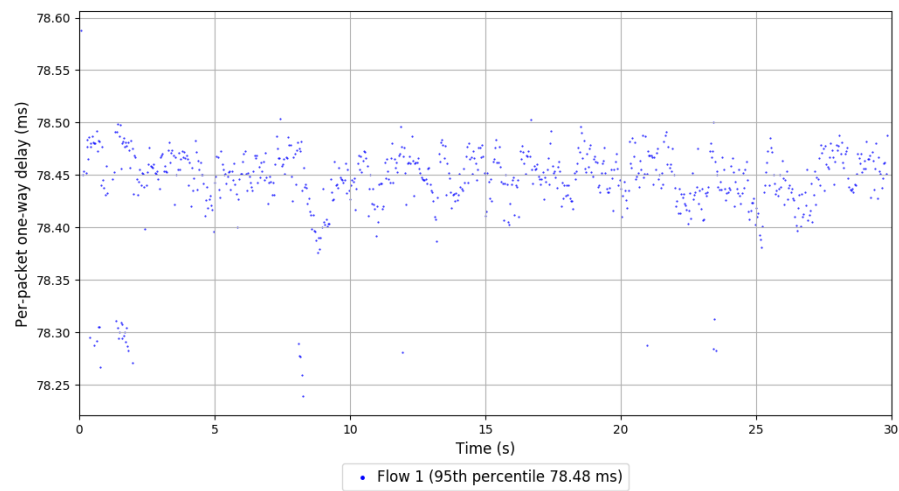
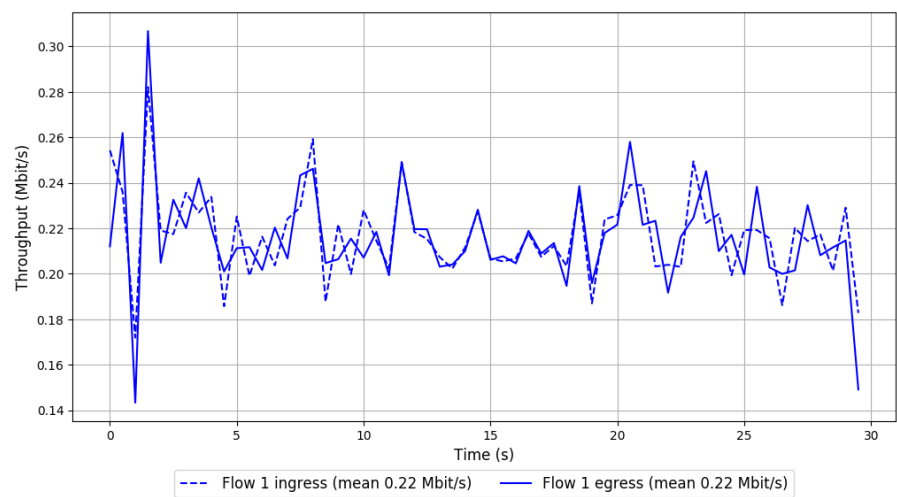
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.482 ms

Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-10 11:02:49

End at: 2018-04-10 11:03:19

Local clock offset: -5.476 ms

Remote clock offset: 9.546 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.658 ms

Loss rate: 0.51%

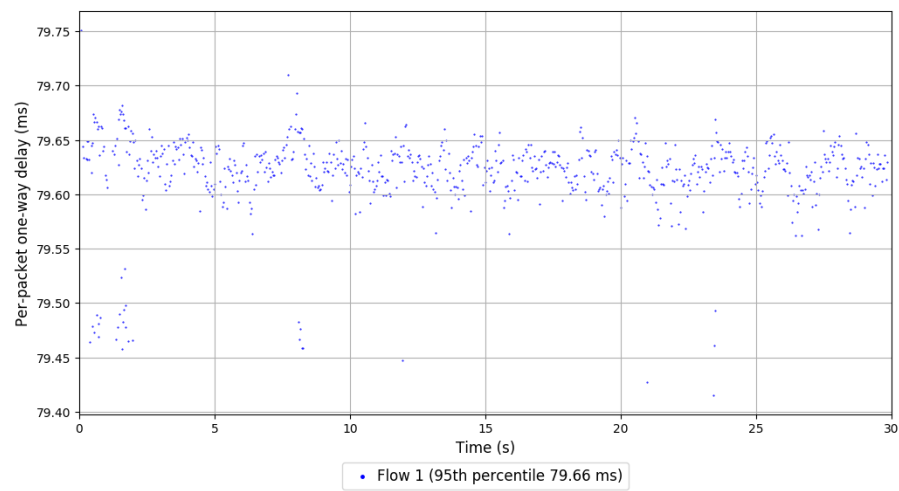
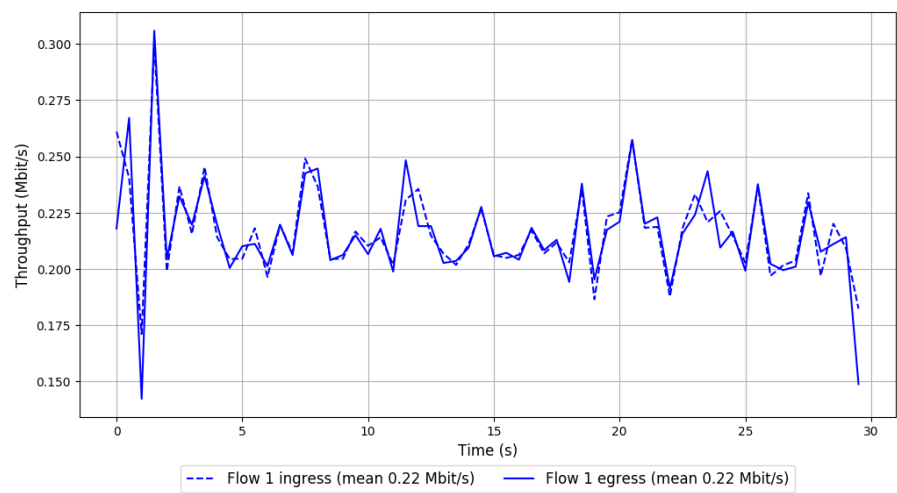
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 79.658 ms

Loss rate: 0.51%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-10 11:25:18

End at: 2018-04-10 11:25:48

Local clock offset: -4.877 ms

Remote clock offset: 9.91 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.245 ms

Loss rate: 0.51%

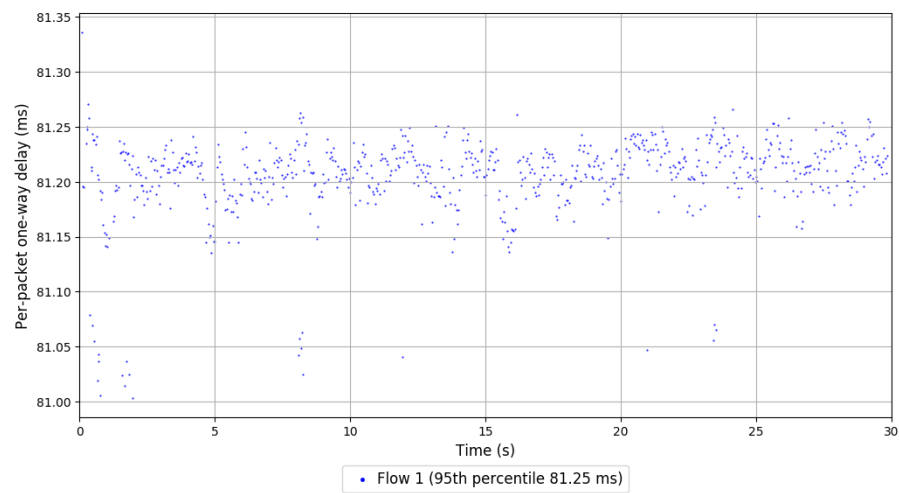
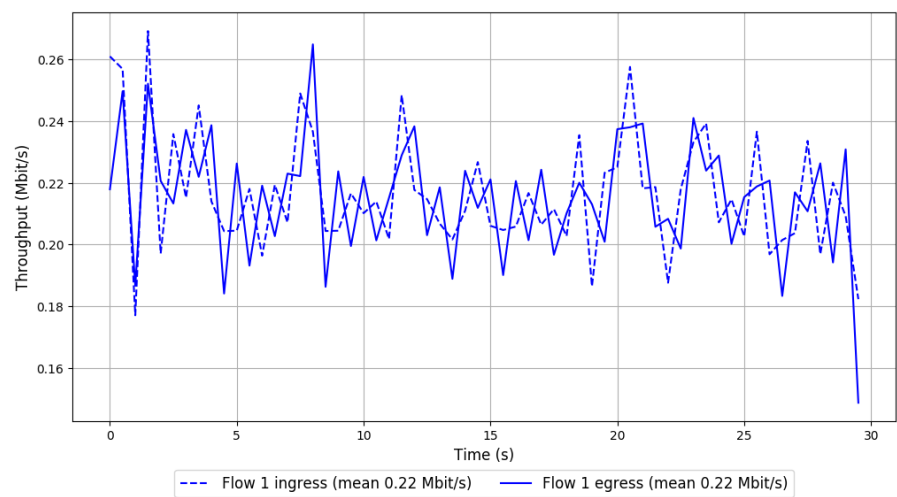
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 81.245 ms

Loss rate: 0.51%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-10 11:47:17

End at: 2018-04-10 11:47:47

Local clock offset: -5.969 ms

Remote clock offset: 6.322 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.471 ms

Loss rate: 0.51%

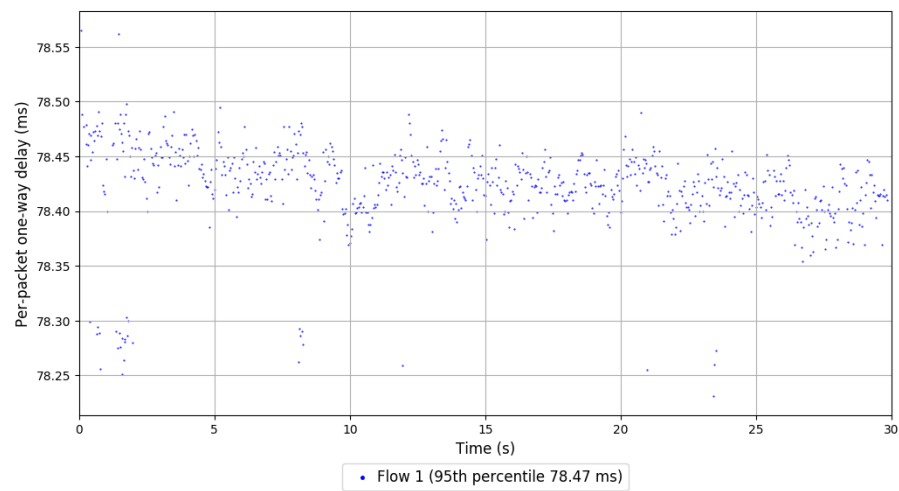
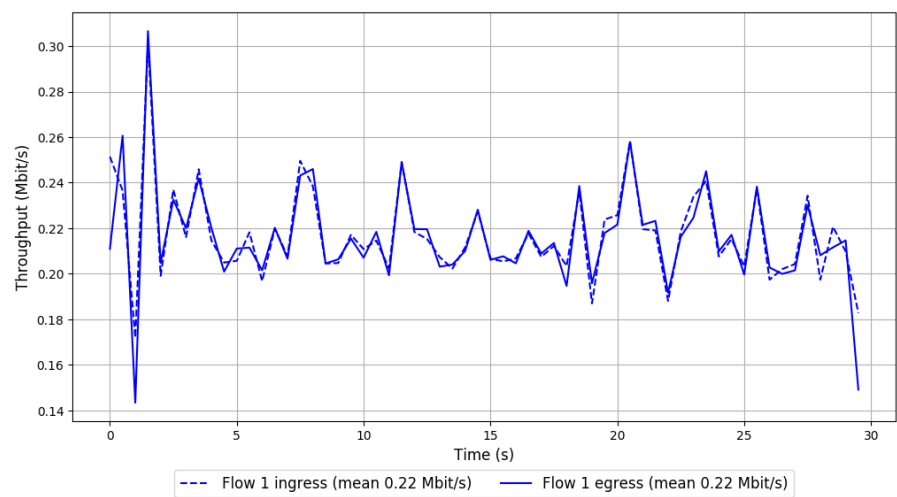
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.471 ms

Loss rate: 0.51%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-10 12:09:45

End at: 2018-04-10 12:10:15

Local clock offset: -5.947 ms

Remote clock offset: 0.552 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 82.845 ms

Loss rate: 0.51%

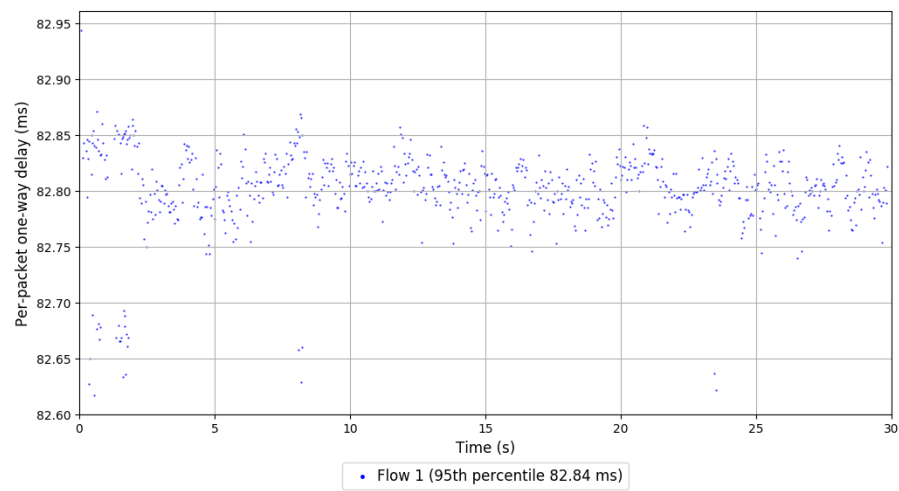
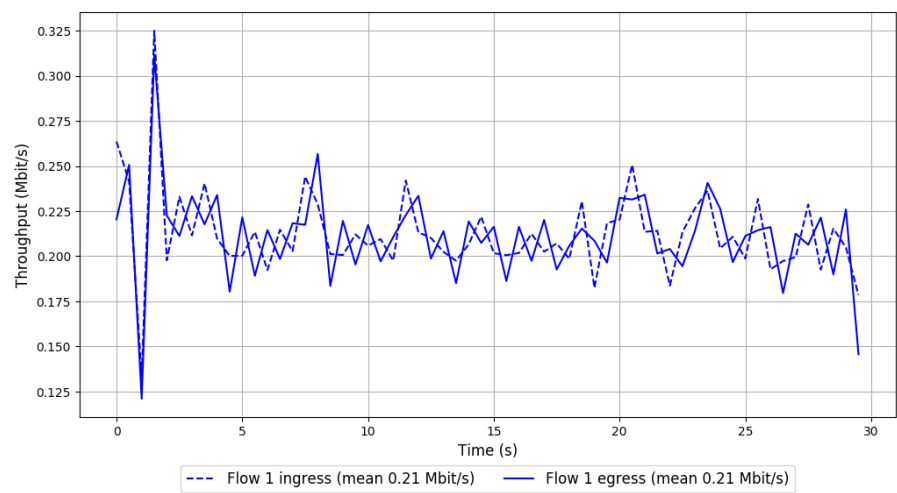
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 82.845 ms

Loss rate: 0.51%

Run 9: Report of SReAM — Data Link

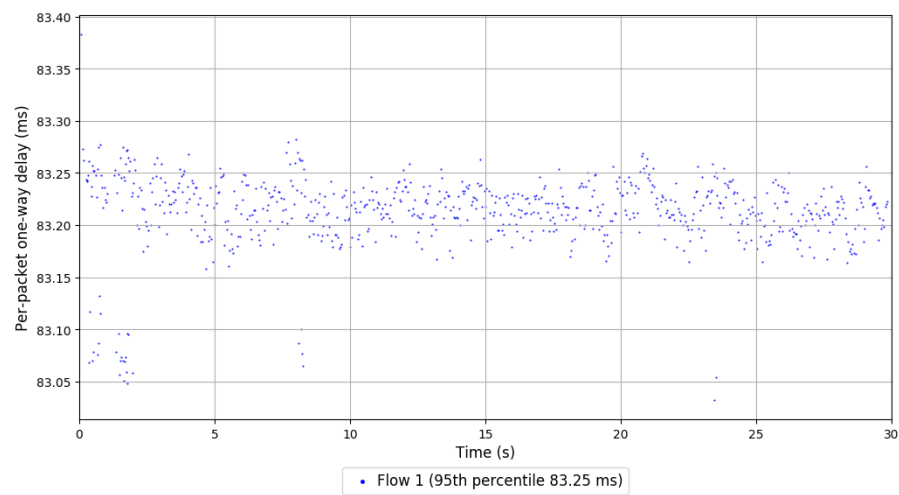
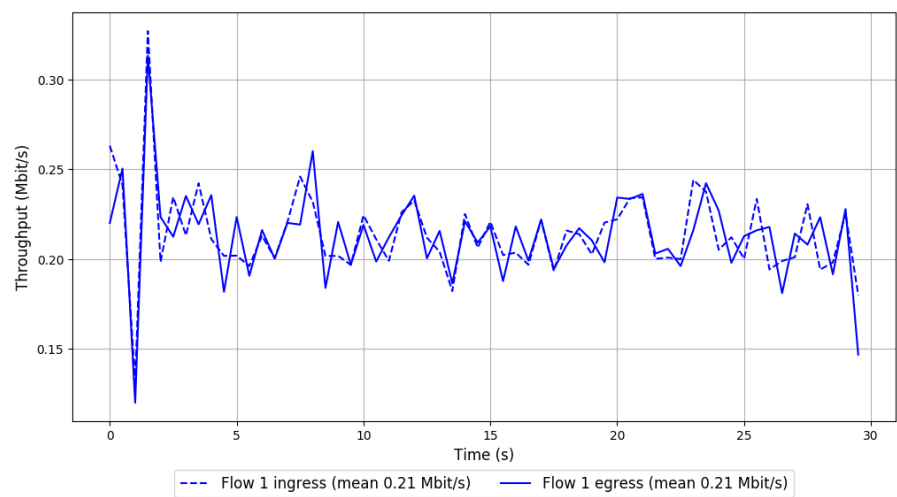


Run 10: Statistics of SCReAM

Start at: 2018-04-10 12:31:56
End at: 2018-04-10 12:32:26
Local clock offset: -5.967 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 83.255 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 83.255 ms
Loss rate: 0.51%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-10 09:21:44

End at: 2018-04-10 09:22:14

Local clock offset: -6.384 ms

Remote clock offset: 7.151 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.361 ms

Loss rate: 0.04%

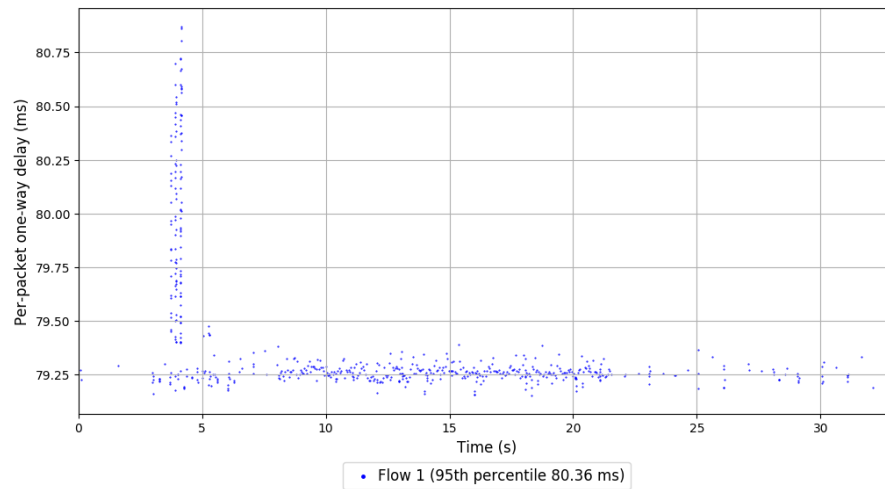
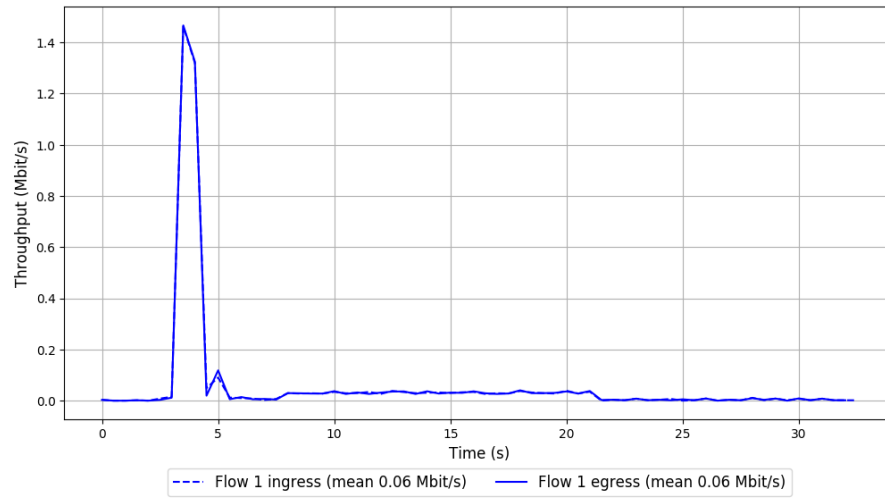
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 80.361 ms

Loss rate: 0.04%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-10 09:43:56

End at: 2018-04-10 09:44:26

Local clock offset: -5.621 ms

Remote clock offset: 2.214 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 84.558 ms

Loss rate: 0.00%

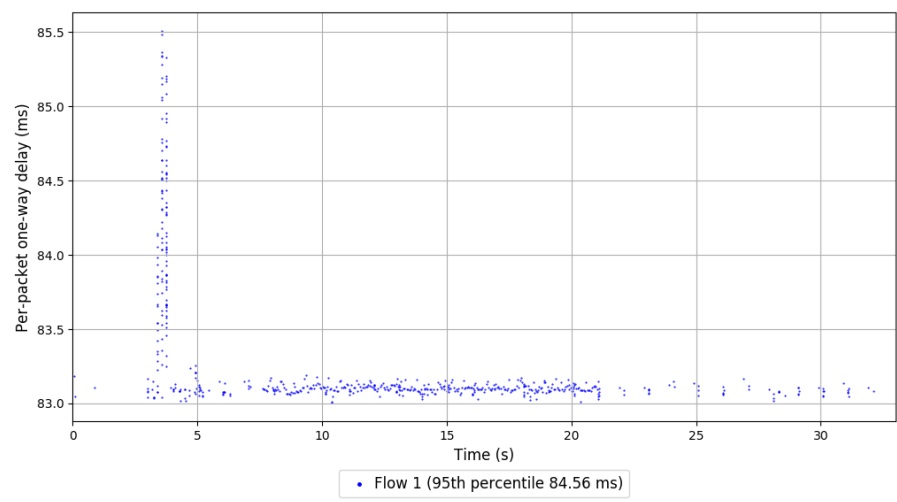
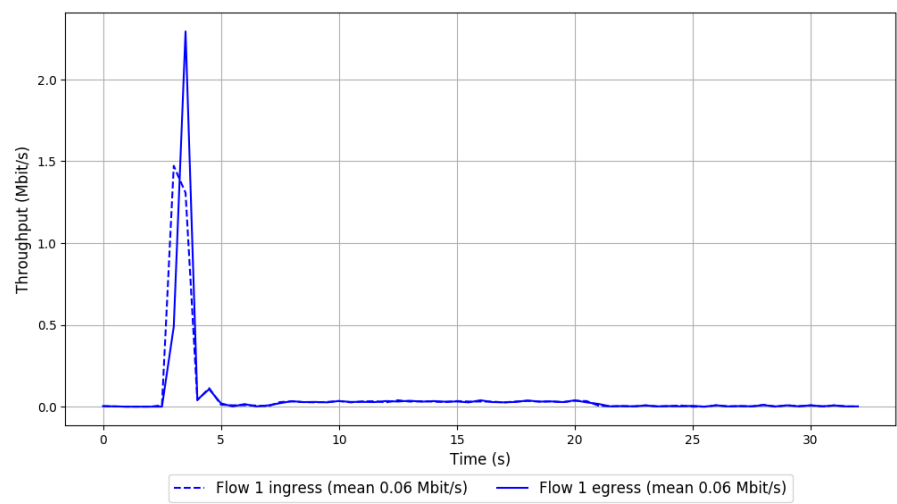
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 84.558 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-10 10:06:07

End at: 2018-04-10 10:06:37

Local clock offset: -4.77 ms

Remote clock offset: 7.473 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 82.322 ms

Loss rate: 0.17%

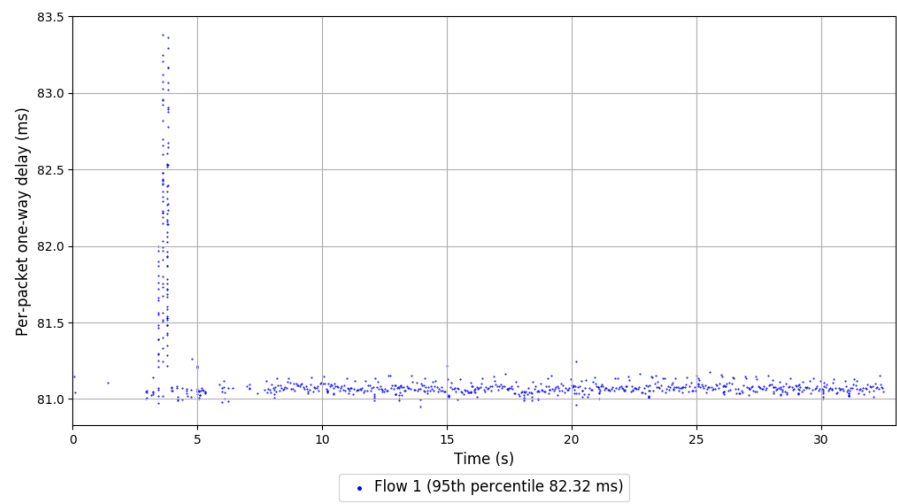
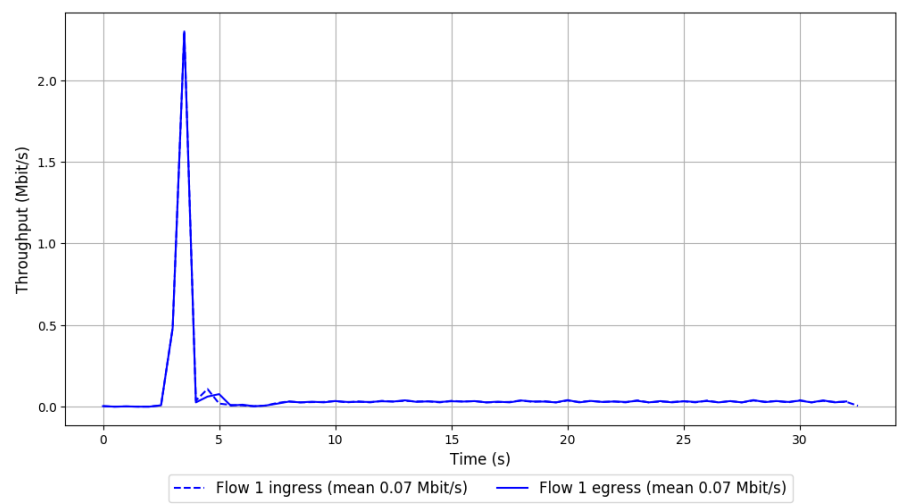
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 82.322 ms

Loss rate: 0.17%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-10 10:28:19

End at: 2018-04-10 10:28:49

Local clock offset: -4.588 ms

Remote clock offset: 8.477 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 80.578 ms

Loss rate: 0.23%

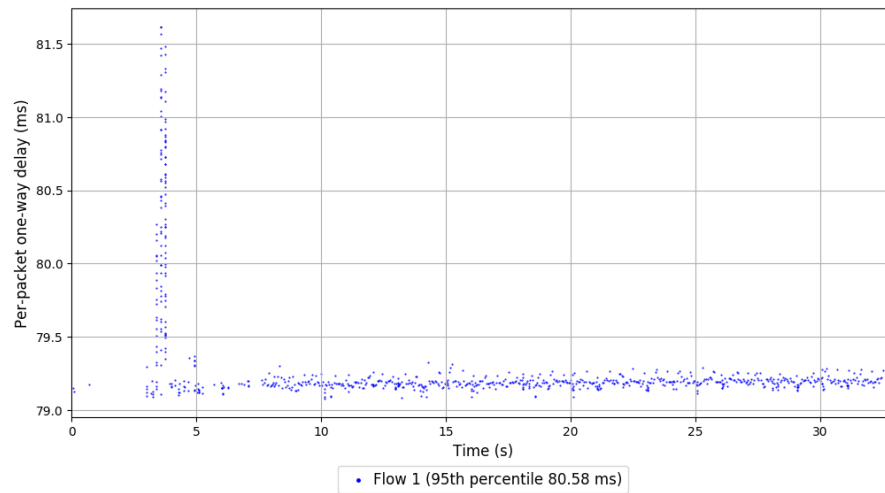
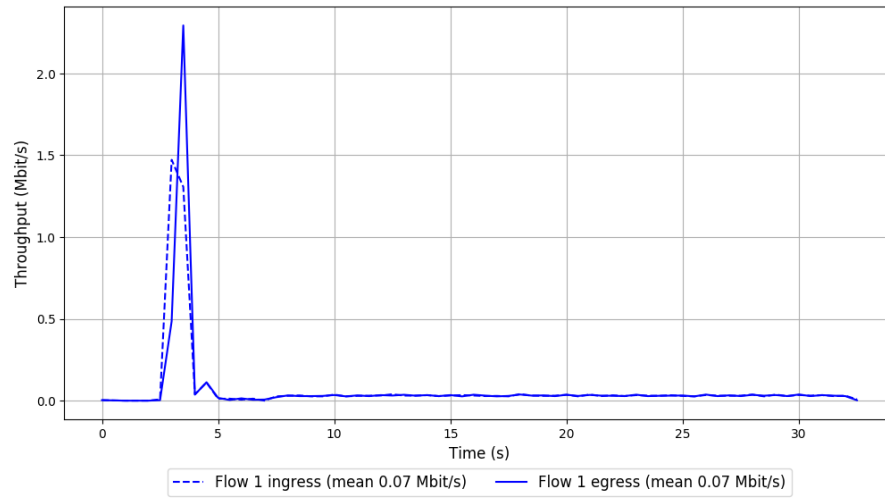
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 80.578 ms

Loss rate: 0.23%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-10 10:50:32

End at: 2018-04-10 10:51:02

Local clock offset: -5.372 ms

Remote clock offset: 9.411 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.651 ms

Loss rate: 0.00%

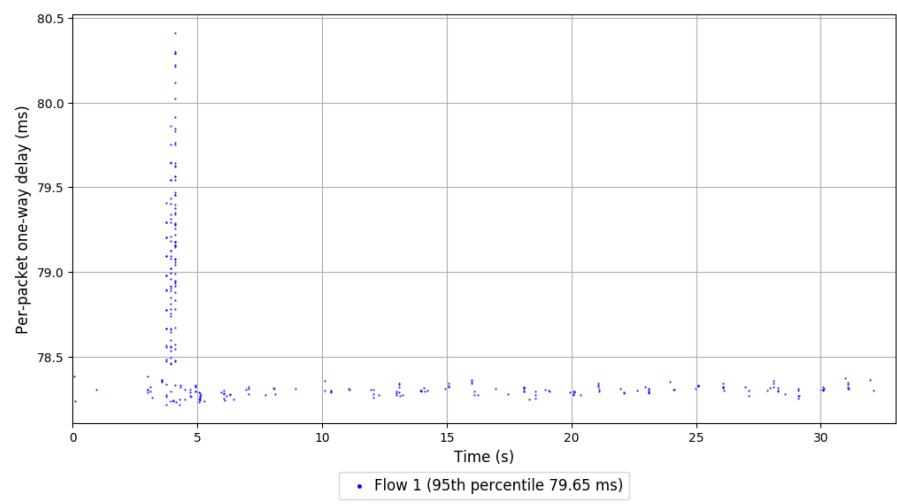
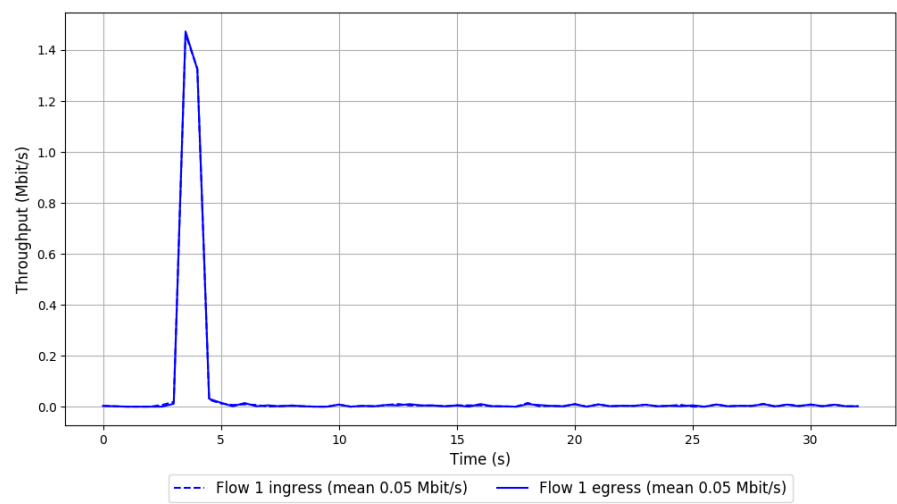
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 79.651 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-10 11:12:50

End at: 2018-04-10 11:13:20

Local clock offset: -5.396 ms

Remote clock offset: 8.892 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 81.734 ms

Loss rate: 0.23%

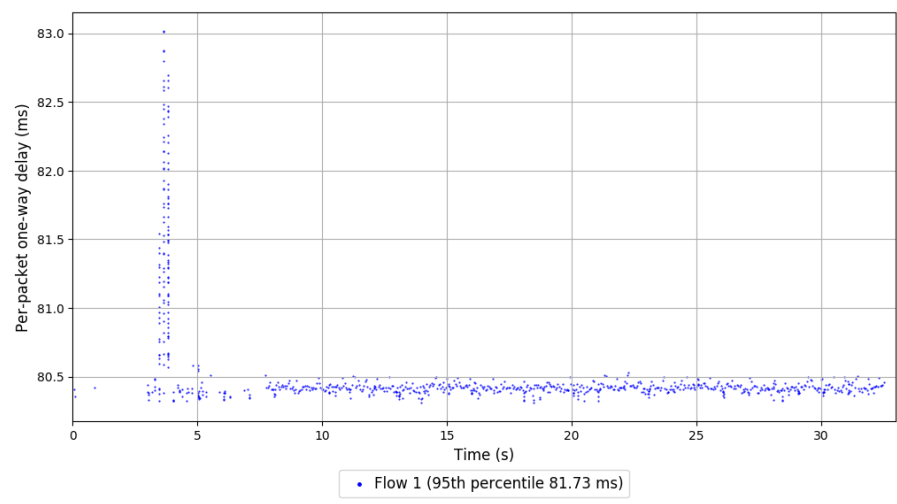
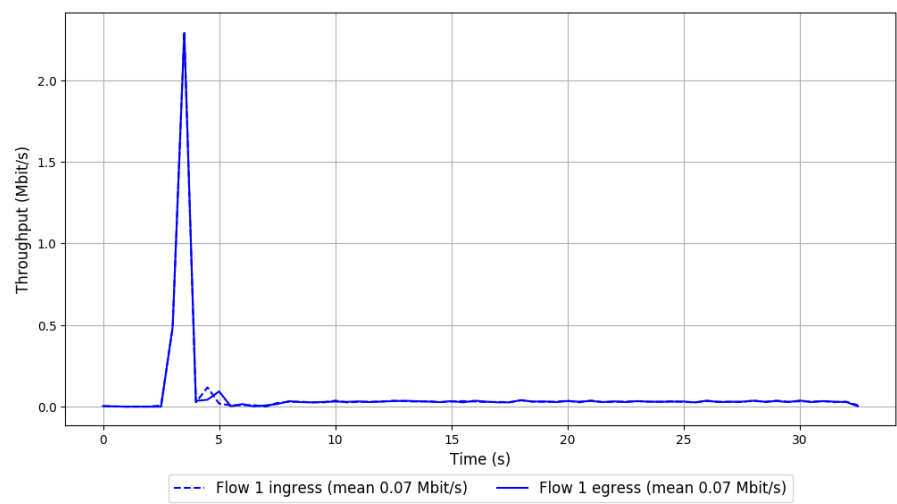
-- Flow 1:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 81.734 ms

Loss rate: 0.23%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-10 11:34:56

End at: 2018-04-10 11:35:26

Local clock offset: -6.613 ms

Remote clock offset: 7.839 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 79.932 ms

Loss rate: 0.04%

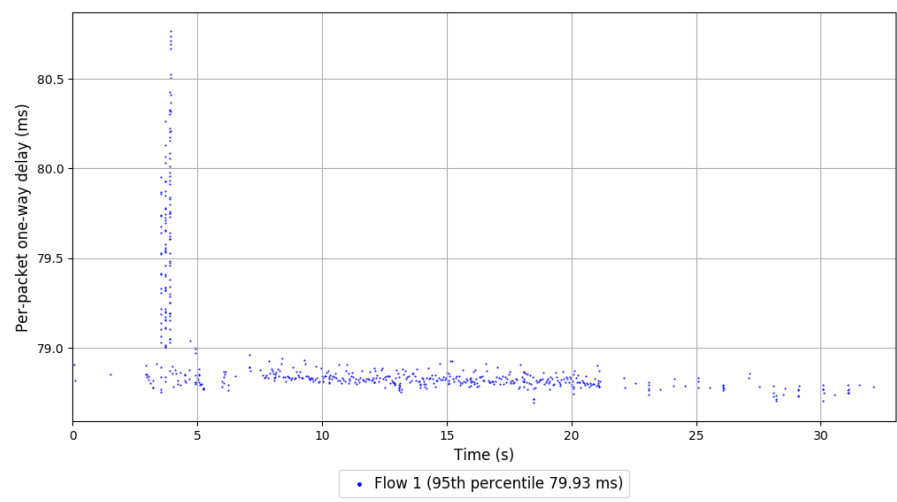
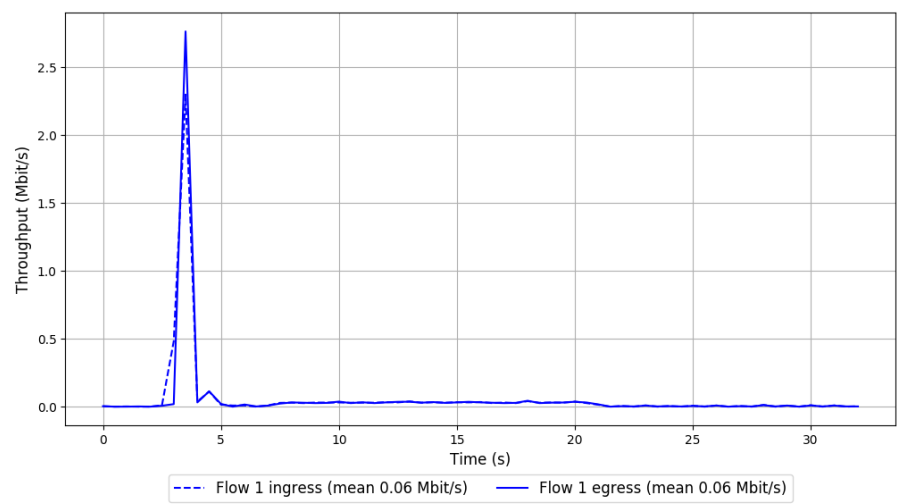
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 79.932 ms

Loss rate: 0.04%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-10 11:57:17

End at: 2018-04-10 11:57:47

Local clock offset: -6.012 ms

Remote clock offset: 5.816 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.894 ms

Loss rate: 0.00%

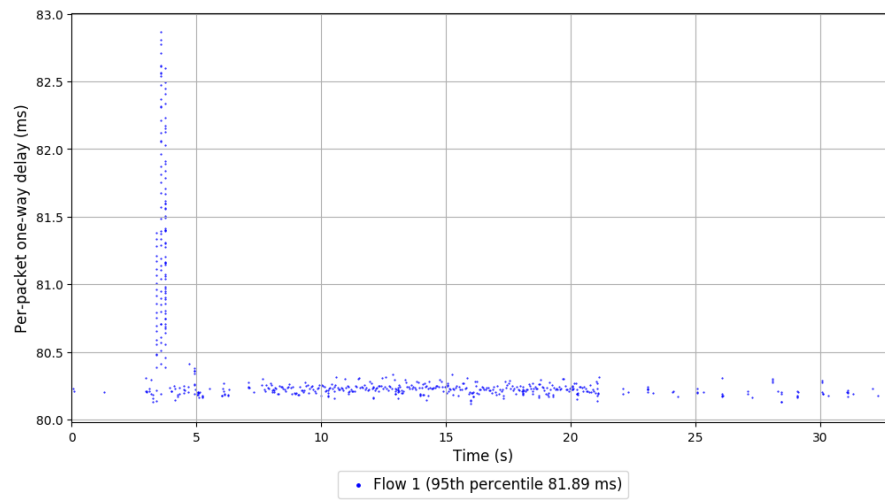
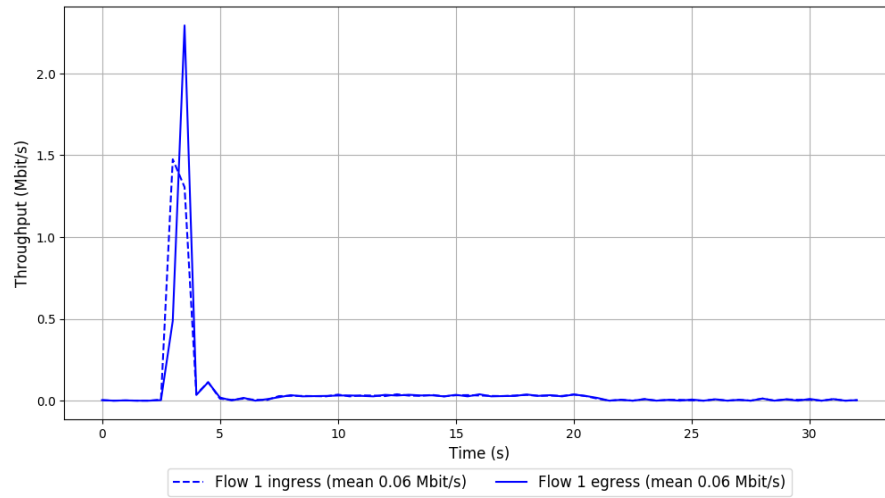
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.894 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

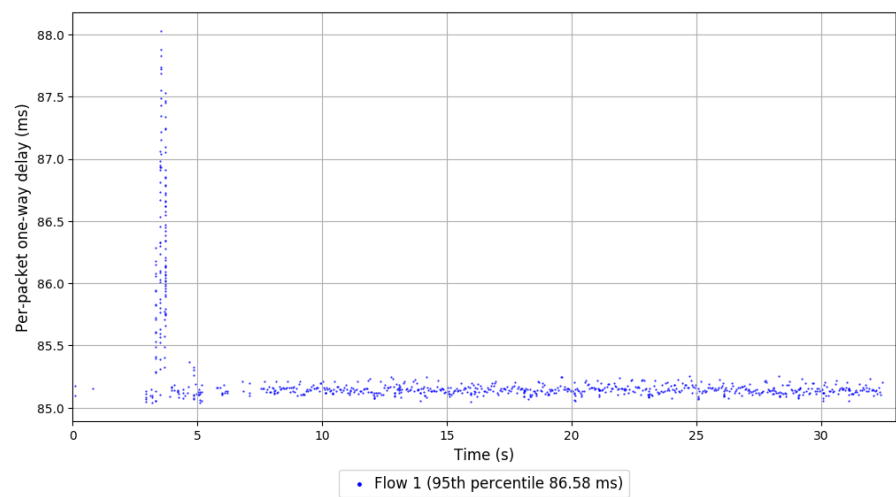
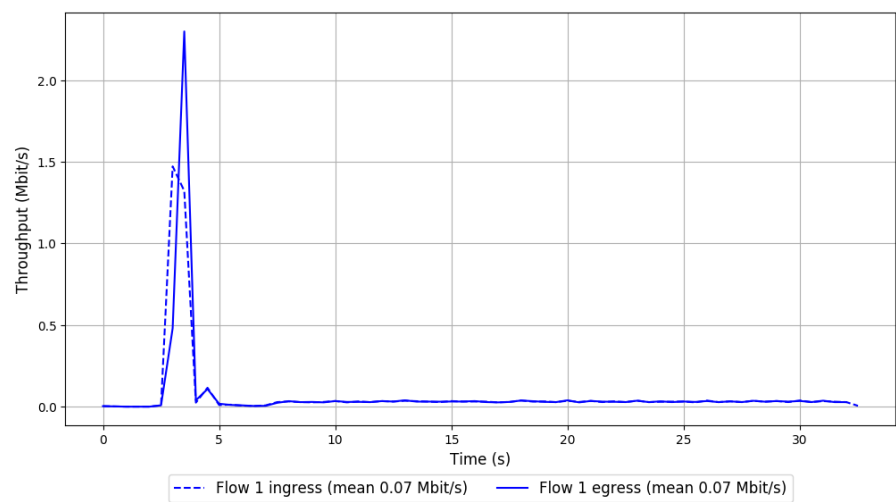


Run 9: Statistics of WebRTC media

Start at: 2018-04-10 12:19:39
End at: 2018-04-10 12:20:09
Local clock offset: -6.752 ms
Remote clock offset: -0.532 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 86.578 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 86.578 ms
Loss rate: 0.23%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-10 12:41:50

End at: 2018-04-10 12:42:20

Local clock offset: -6.029 ms

Remote clock offset: 5.381 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.671 ms

Loss rate: 0.00%

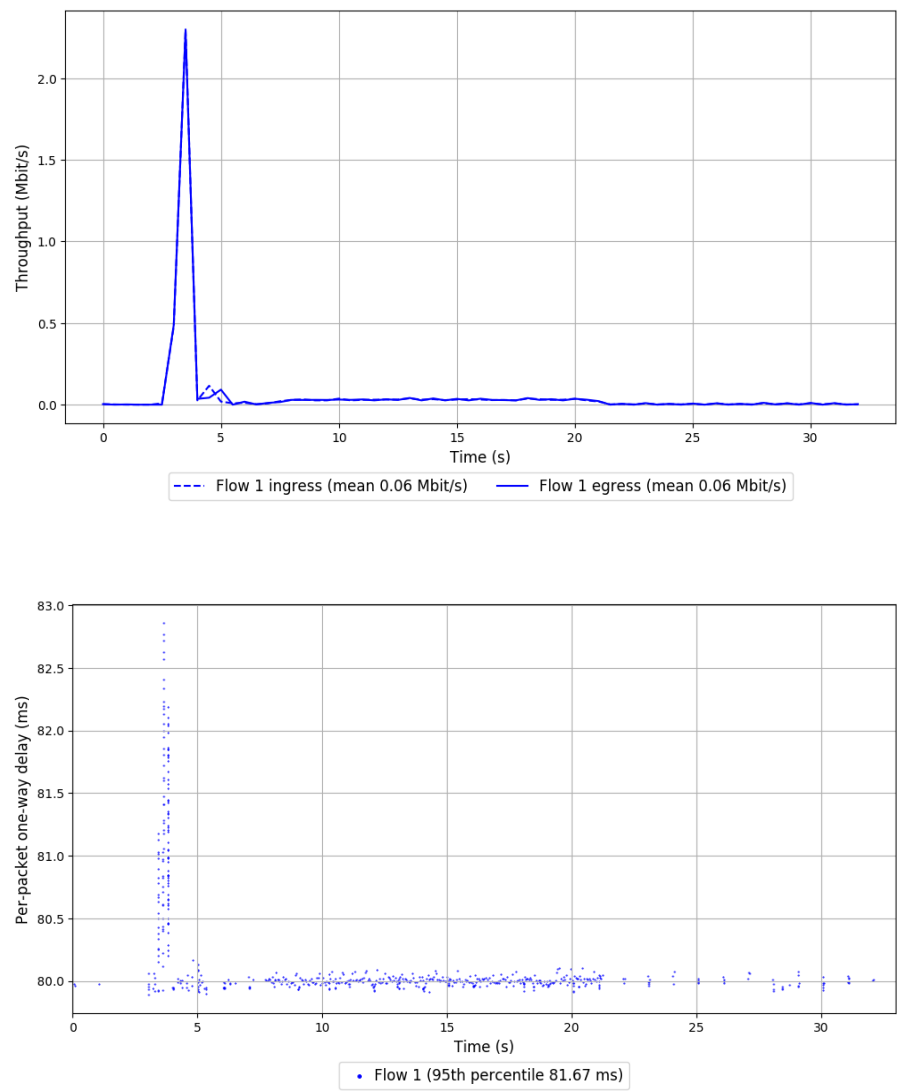
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 81.671 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-10 09:08:09

End at: 2018-04-10 09:08:39

Local clock offset: -6.427 ms

Remote clock offset: 2.494 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 91.308 ms

Loss rate: 0.82%

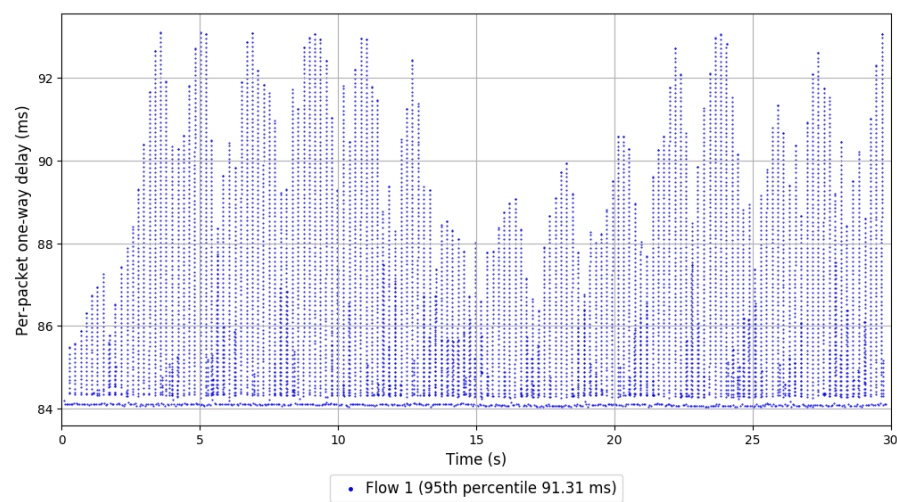
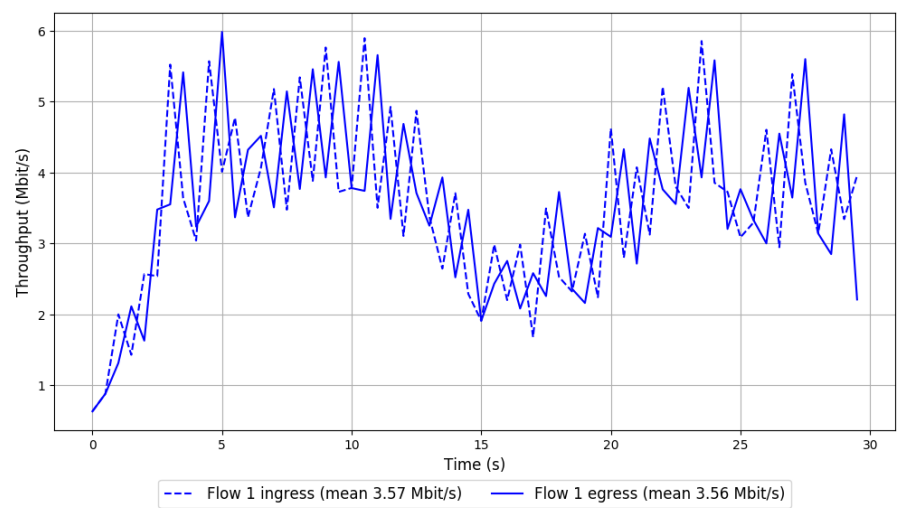
-- Flow 1:

Average throughput: 3.56 Mbit/s

95th percentile per-packet one-way delay: 91.308 ms

Loss rate: 0.82%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-04-10 09:30:18

End at: 2018-04-10 09:30:48

Local clock offset: -4.879 ms

Remote clock offset: 2.27 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 91.418 ms

Loss rate: 0.93%

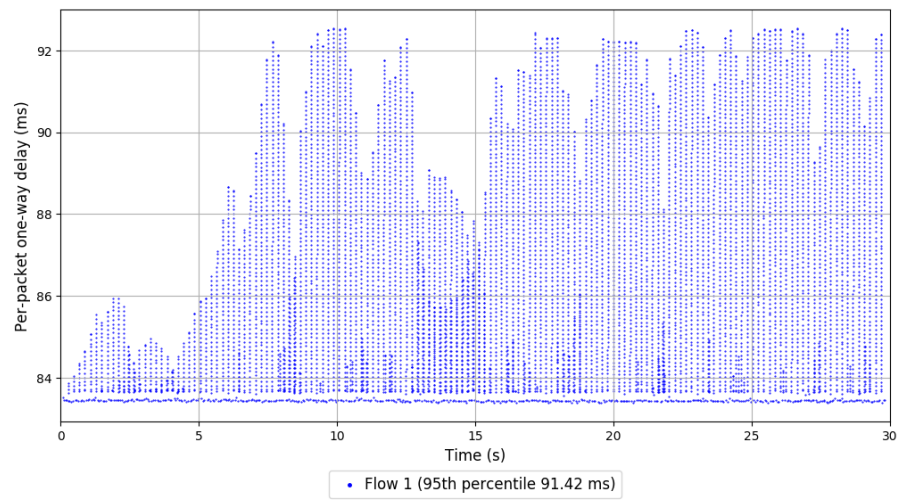
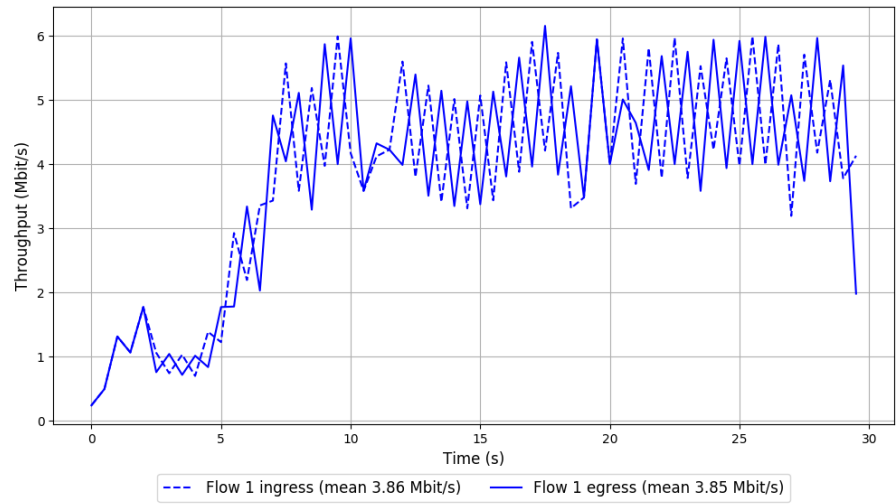
-- Flow 1:

Average throughput: 3.85 Mbit/s

95th percentile per-packet one-way delay: 91.418 ms

Loss rate: 0.93%

Run 2: Report of Sprout — Data Link

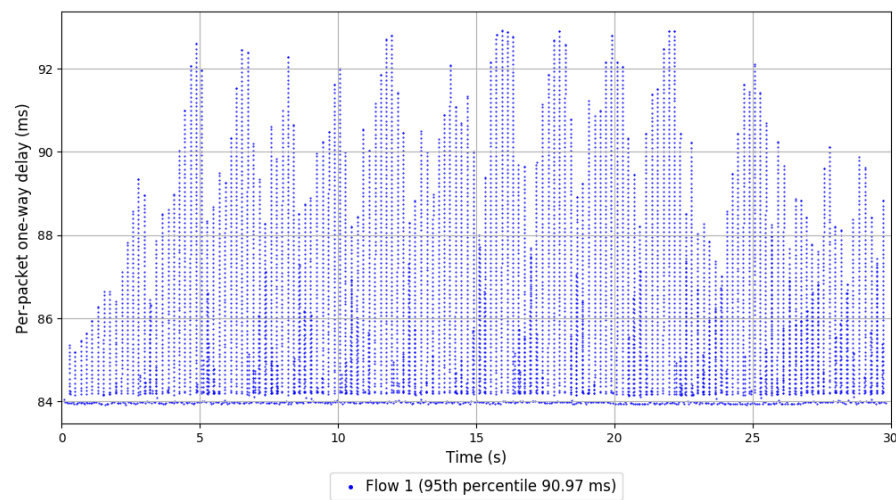
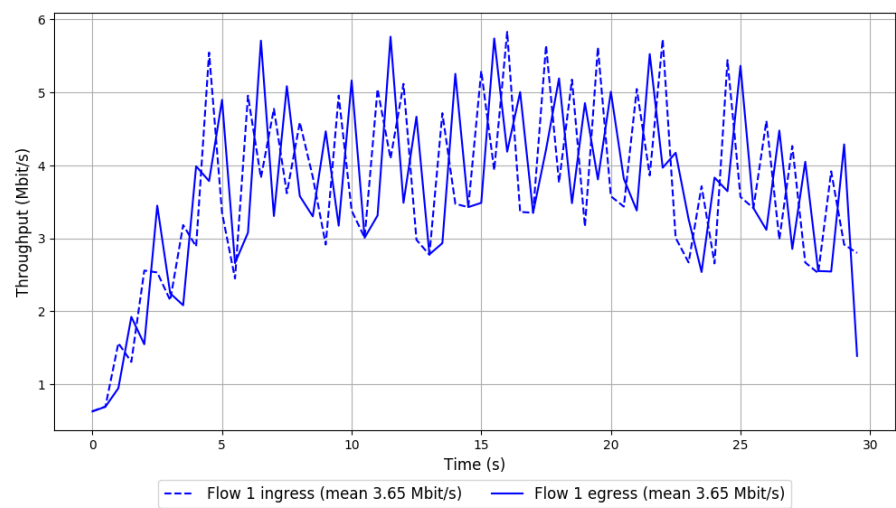


Run 3: Statistics of Sprout

Start at: 2018-04-10 09:52:30
End at: 2018-04-10 09:53:00
Local clock offset: -6.283 ms
Remote clock offset: 2.543 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 90.975 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 3.65 Mbit/s
95th percentile per-packet one-way delay: 90.975 ms
Loss rate: 0.65%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-04-10 10:14:39

End at: 2018-04-10 10:15:09

Local clock offset: -5.462 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 0.63%

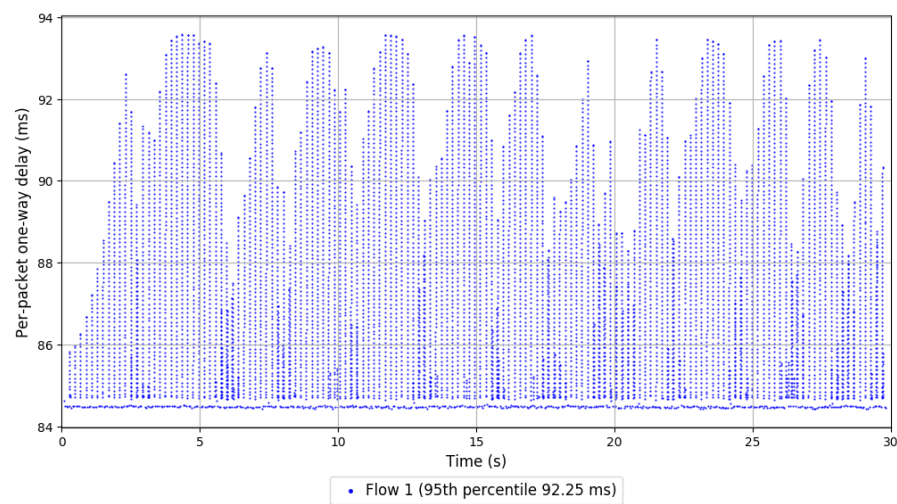
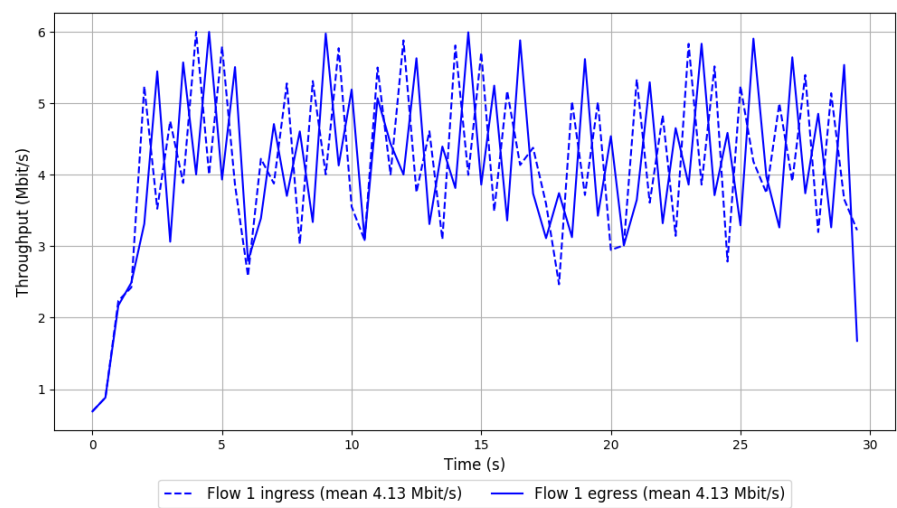
-- Flow 1:

Average throughput: 4.13 Mbit/s

95th percentile per-packet one-way delay: 92.252 ms

Loss rate: 0.63%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-10 10:36:54

End at: 2018-04-10 10:37:24

Local clock offset: -4.555 ms

Remote clock offset: 4.144 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 93.575 ms

Loss rate: 0.79%

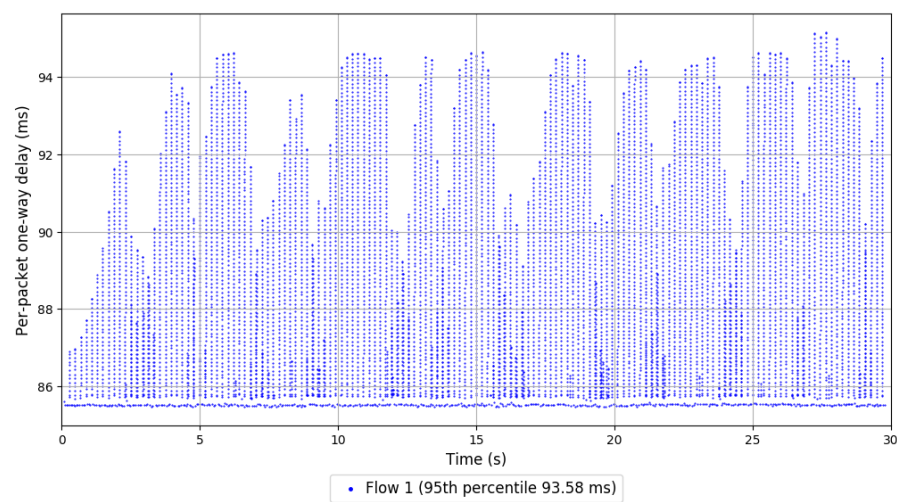
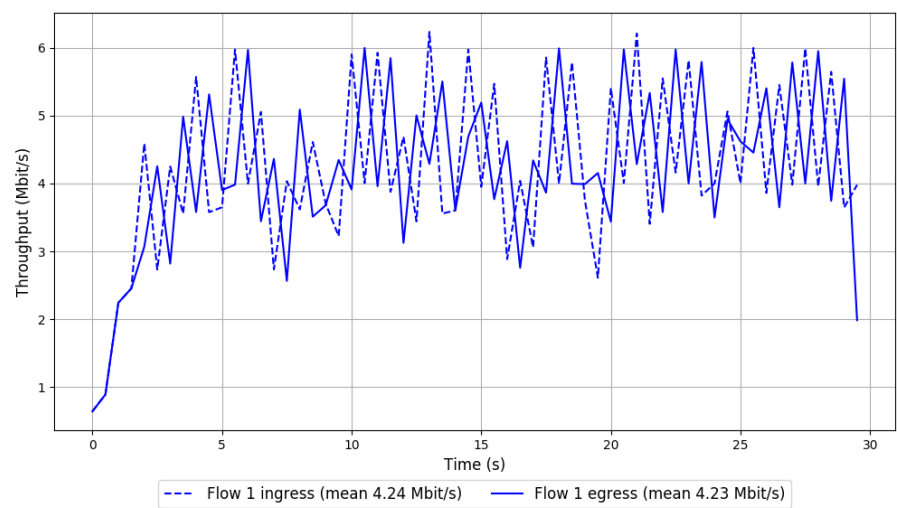
-- Flow 1:

Average throughput: 4.23 Mbit/s

95th percentile per-packet one-way delay: 93.575 ms

Loss rate: 0.79%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-10 10:59:04

End at: 2018-04-10 10:59:34

Local clock offset: -4.651 ms

Remote clock offset: 4.735 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 93.485 ms

Loss rate: 0.84%

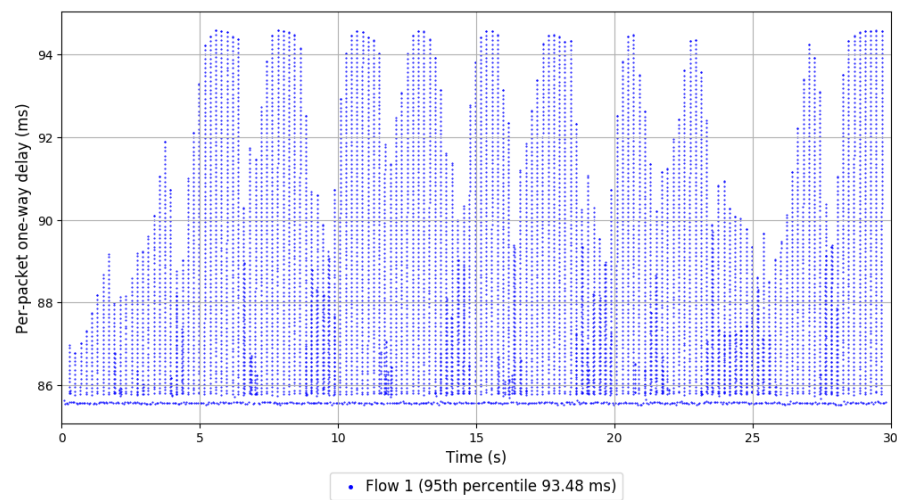
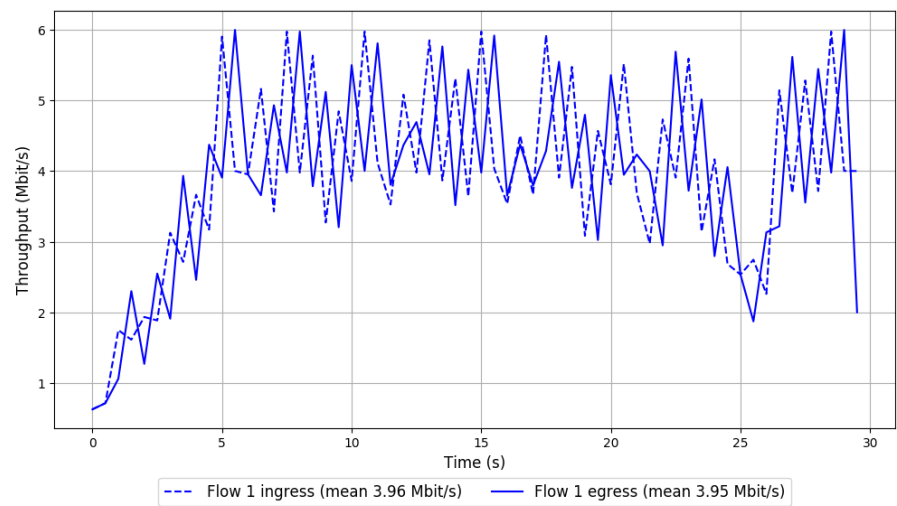
-- Flow 1:

Average throughput: 3.95 Mbit/s

95th percentile per-packet one-way delay: 93.485 ms

Loss rate: 0.84%

Run 6: Report of Sprout — Data Link

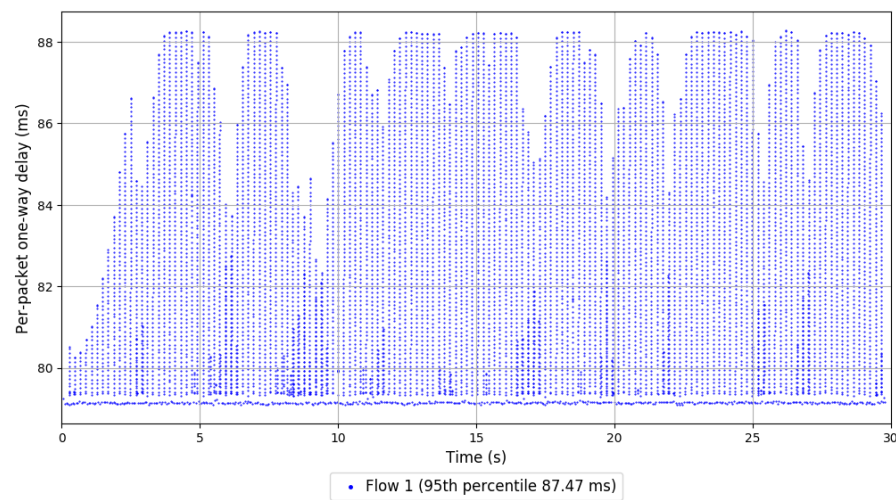
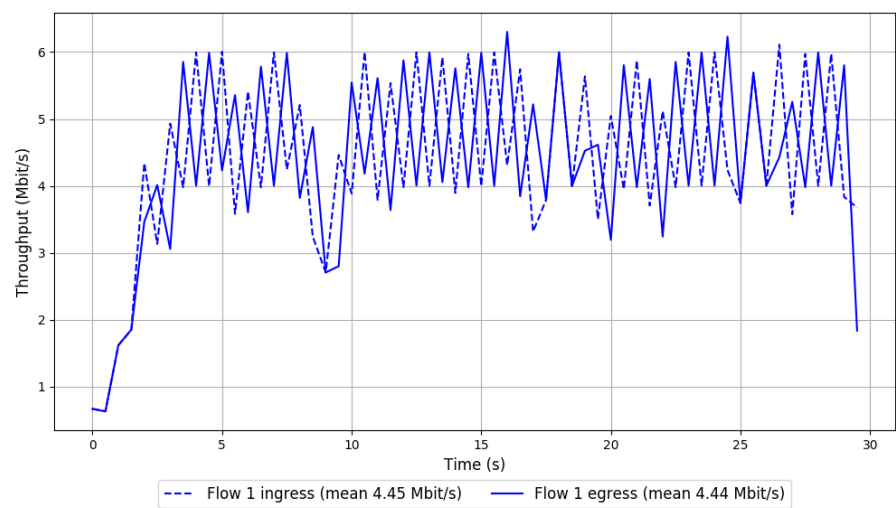


Run 7: Statistics of Sprout

Start at: 2018-04-10 11:21:23
End at: 2018-04-10 11:21:53
Local clock offset: -6.333 ms
Remote clock offset: 9.842 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 87.472 ms
Loss rate: 0.69%
-- Flow 1:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 87.472 ms
Loss rate: 0.69%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-10 11:43:32

End at: 2018-04-10 11:44:02

Local clock offset: -6.647 ms

Remote clock offset: 6.681 ms

Below is generated by plot.py at 2018-04-10 16:36:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 85.323 ms

Loss rate: 0.69%

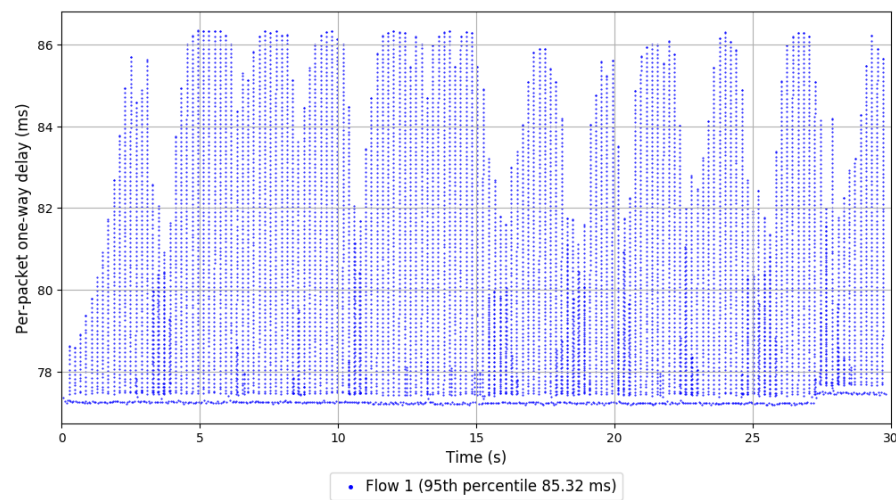
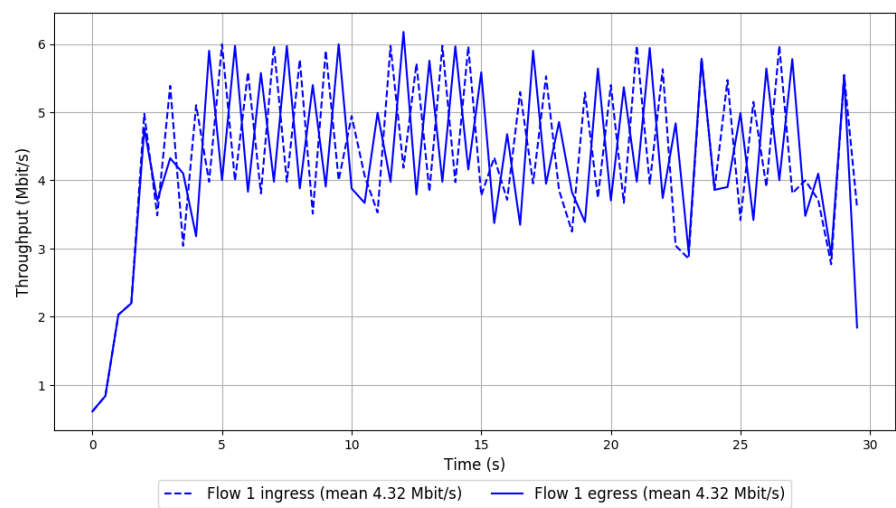
-- Flow 1:

Average throughput: 4.32 Mbit/s

95th percentile per-packet one-way delay: 85.323 ms

Loss rate: 0.69%

Run 8: Report of Sprout — Data Link

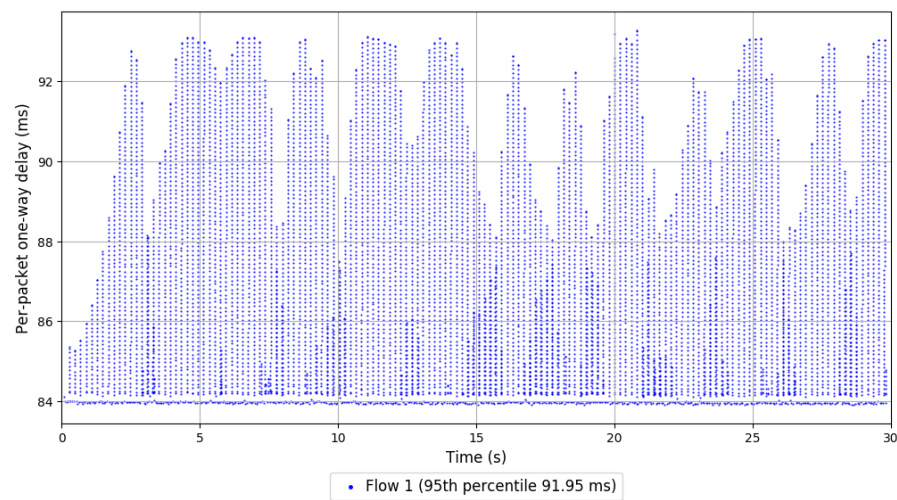
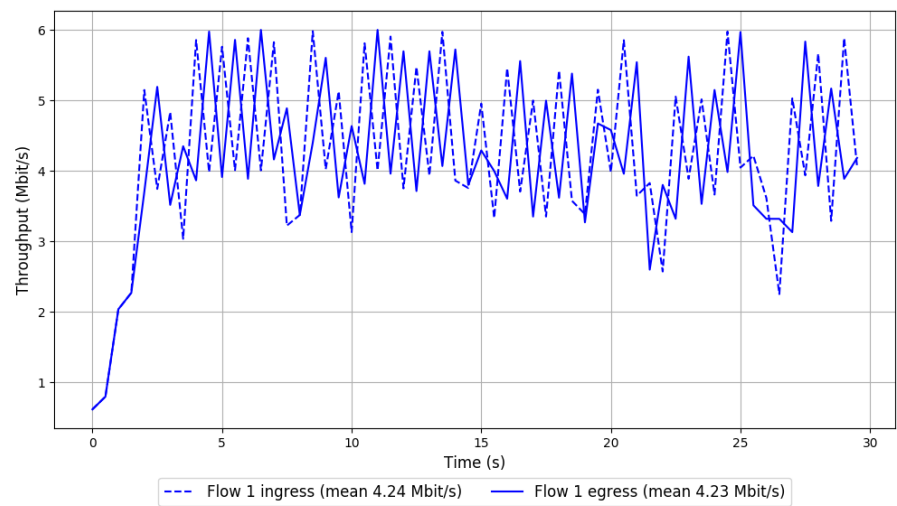


Run 9: Statistics of Sprout

Start at: 2018-04-10 12:05:50
End at: 2018-04-10 12:06:20
Local clock offset: -5.939 ms
Remote clock offset: -0.097 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 91.951 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 91.951 ms
Loss rate: 0.74%

Run 9: Report of Sprout — Data Link

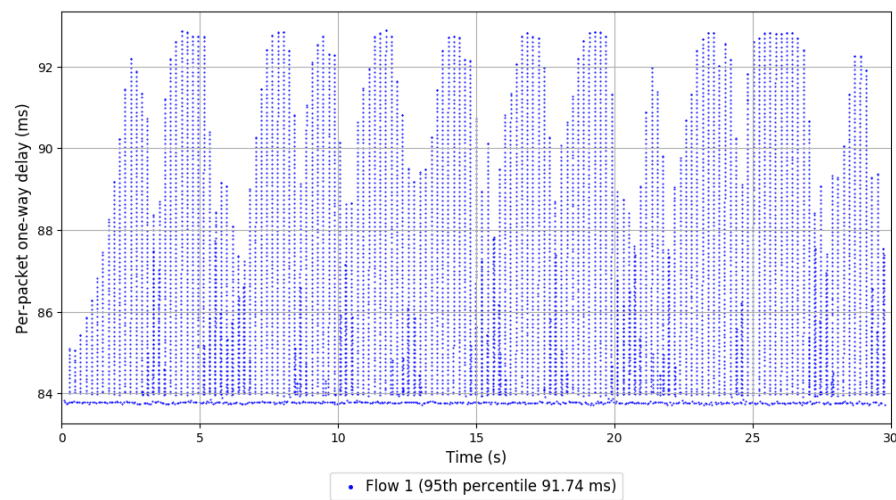
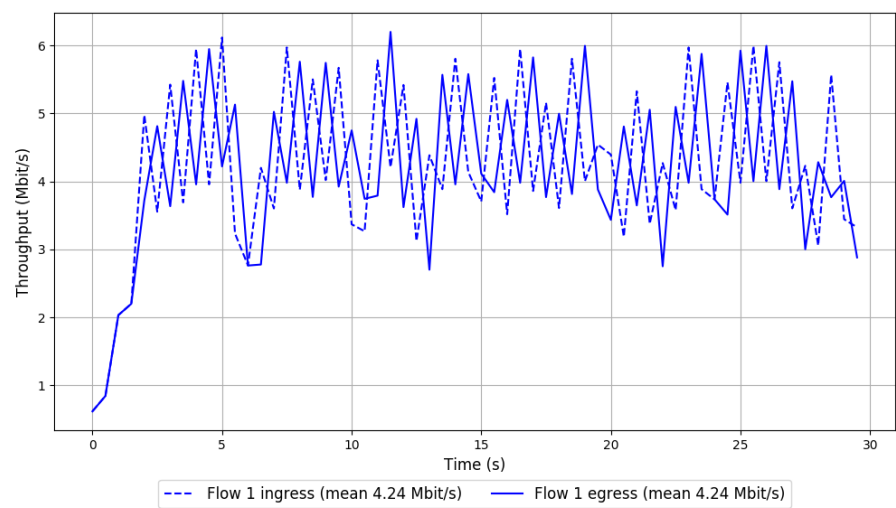


Run 10: Statistics of Sprout

Start at: 2018-04-10 12:28:12
End at: 2018-04-10 12:28:42
Local clock offset: -6.032 ms
Remote clock offset: -0.826 ms

Below is generated by plot.py at 2018-04-10 16:36:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 91.743 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 4.24 Mbit/s
95th percentile per-packet one-way delay: 91.743 ms
Loss rate: 0.67%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-04-10 09:16:44

End at: 2018-04-10 09:17:14

Local clock offset: -5.681 ms

Remote clock offset: 2.374 ms

Below is generated by plot.py at 2018-04-10 16:37:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 94.847 ms

Loss rate: 0.51%

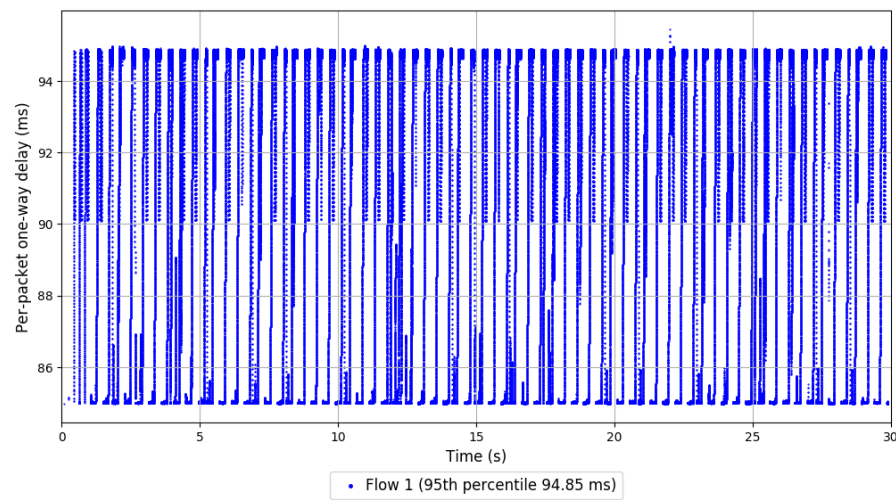
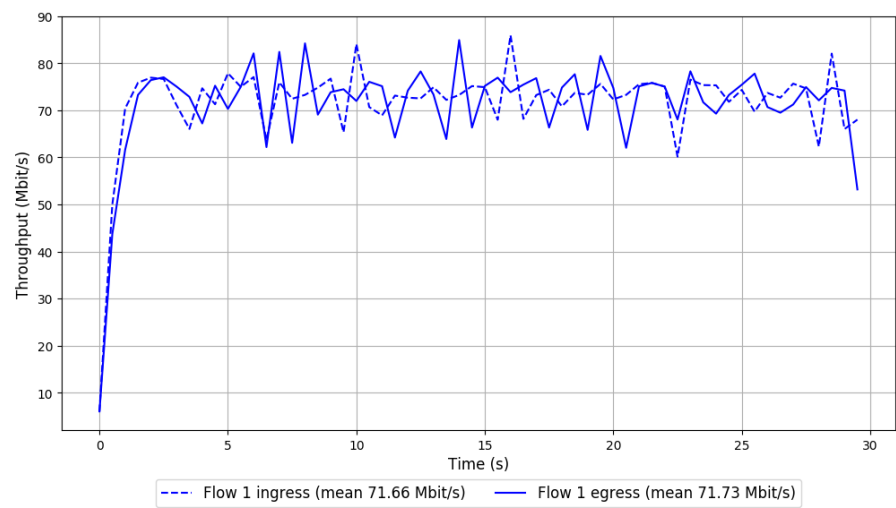
-- Flow 1:

Average throughput: 71.73 Mbit/s

95th percentile per-packet one-way delay: 94.847 ms

Loss rate: 0.51%

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

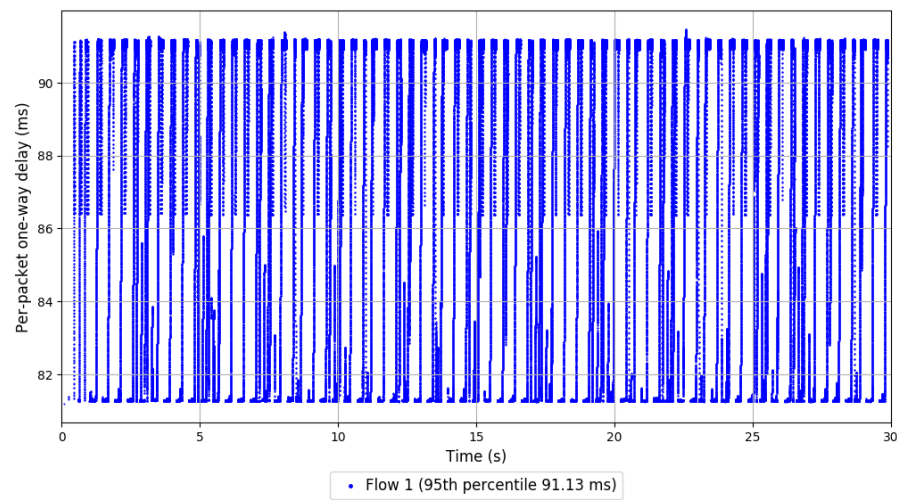
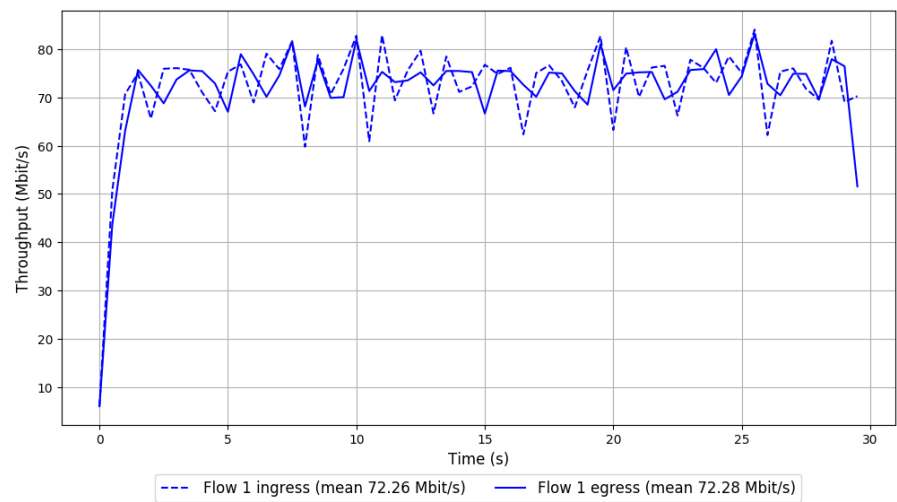


Run 2: Statistics of TaoVA-100x

Start at: 2018-04-10 09:38:54
End at: 2018-04-10 09:39:24
Local clock offset: -5.615 ms
Remote clock offset: 6.2 ms

Below is generated by plot.py at 2018-04-10 16:37:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.28 Mbit/s
95th percentile per-packet one-way delay: 91.127 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 72.28 Mbit/s
95th percentile per-packet one-way delay: 91.127 ms
Loss rate: 0.57%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-10 10:01:06

End at: 2018-04-10 10:01:36

Local clock offset: -5.507 ms

Remote clock offset: 6.569 ms

Below is generated by plot.py at 2018-04-10 16:37:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 89.238 ms

Loss rate: 0.58%

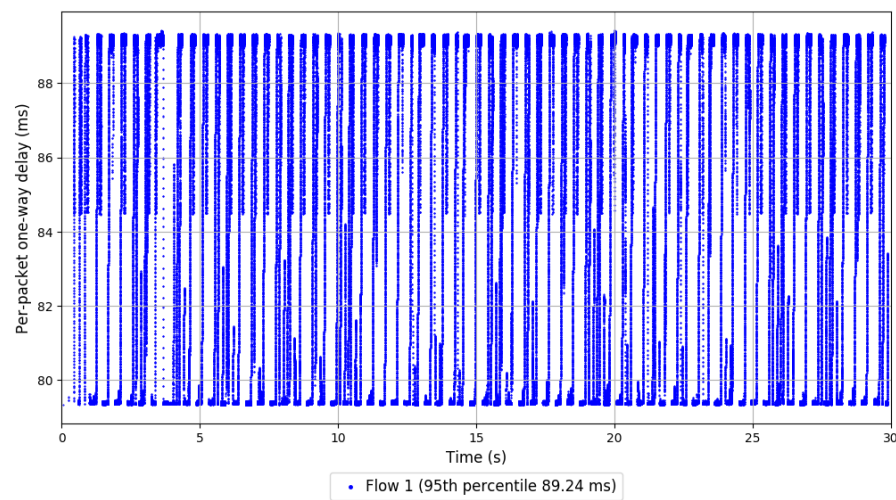
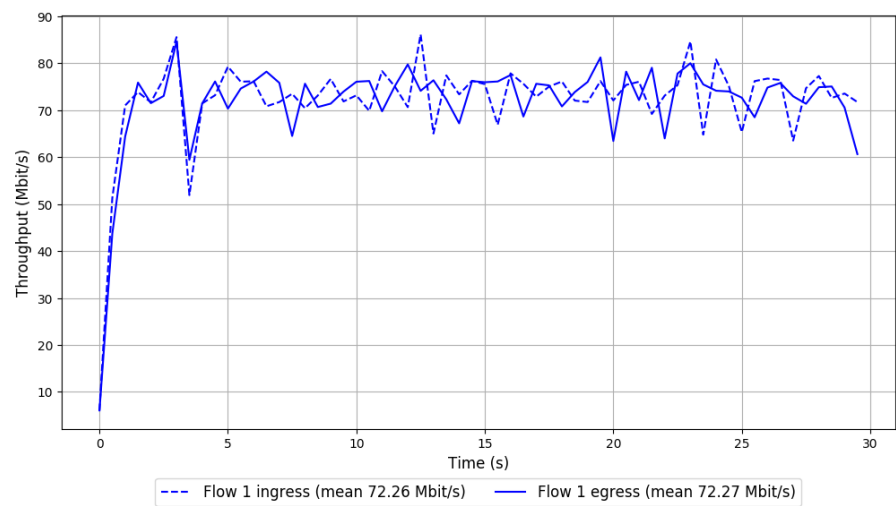
-- Flow 1:

Average throughput: 72.27 Mbit/s

95th percentile per-packet one-way delay: 89.238 ms

Loss rate: 0.58%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-10 10:23:16

End at: 2018-04-10 10:23:46

Local clock offset: -6.147 ms

Remote clock offset: 3.187 ms

Below is generated by plot.py at 2018-04-10 16:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 92.289 ms

Loss rate: 0.72%

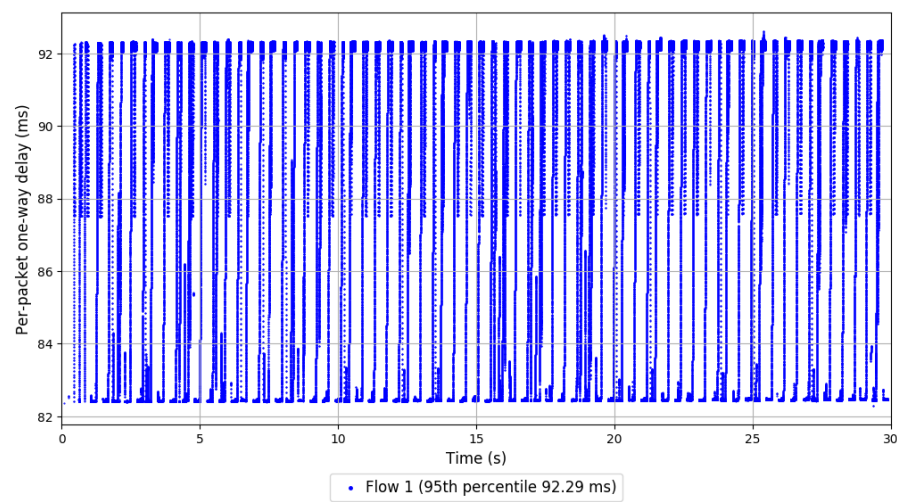
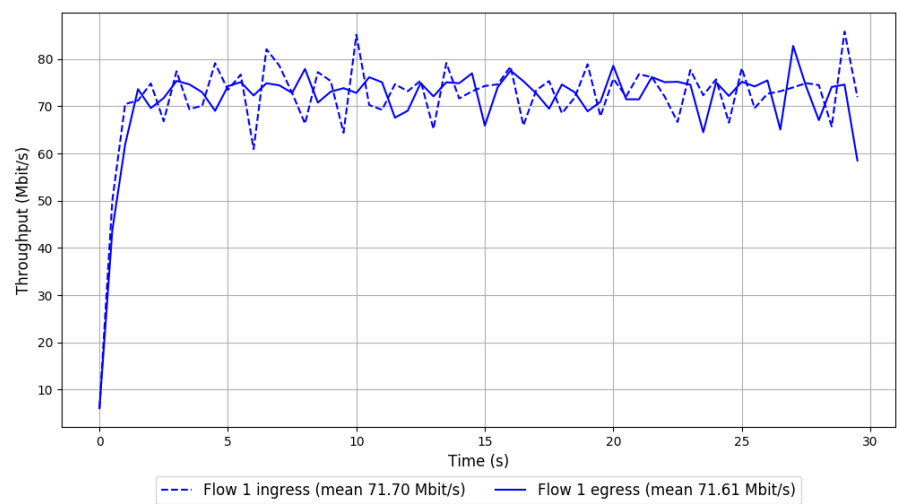
-- Flow 1:

Average throughput: 71.61 Mbit/s

95th percentile per-packet one-way delay: 92.289 ms

Loss rate: 0.72%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-10 10:45:31

End at: 2018-04-10 10:46:01

Local clock offset: -5.255 ms

Remote clock offset: 3.561 ms

Below is generated by plot.py at 2018-04-10 16:37:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 95.796 ms

Loss rate: 0.61%

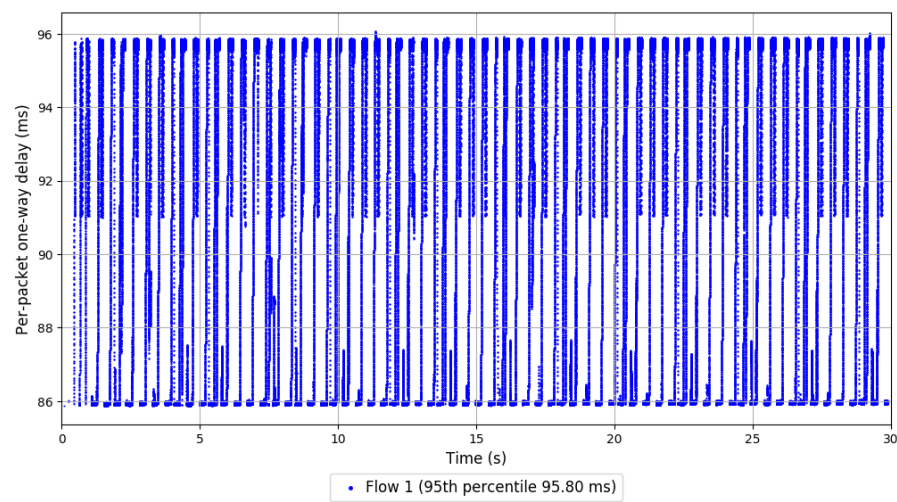
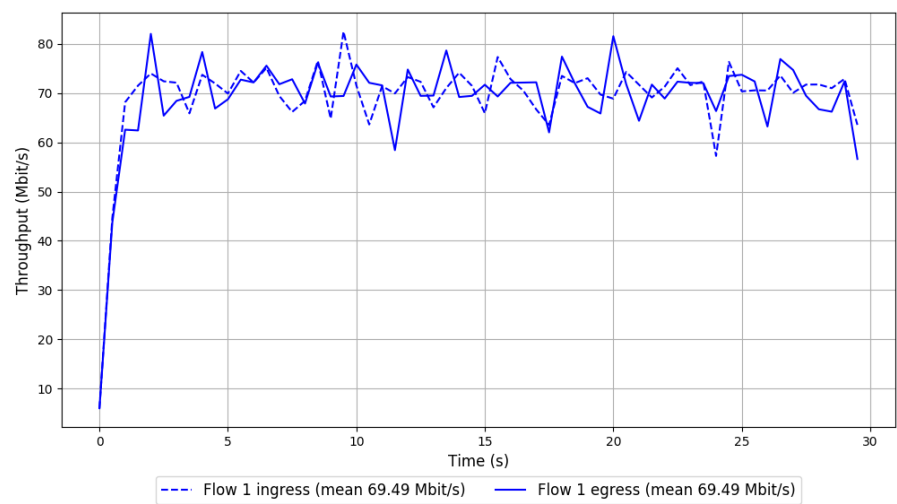
-- Flow 1:

Average throughput: 69.49 Mbit/s

95th percentile per-packet one-way delay: 95.796 ms

Loss rate: 0.61%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-10 11:07:39

End at: 2018-04-10 11:08:09

Local clock offset: -4.694 ms

Remote clock offset: 3.908 ms

Below is generated by plot.py at 2018-04-10 16:38:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 94.640 ms

Loss rate: 7.59%

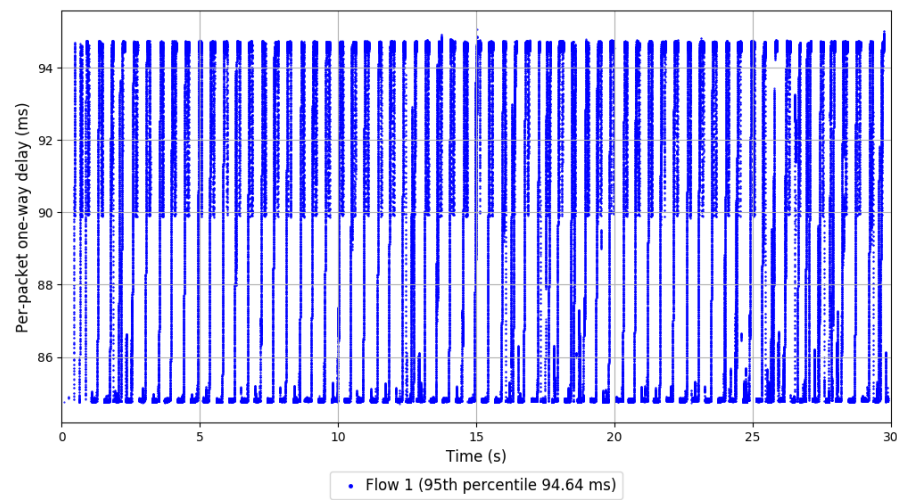
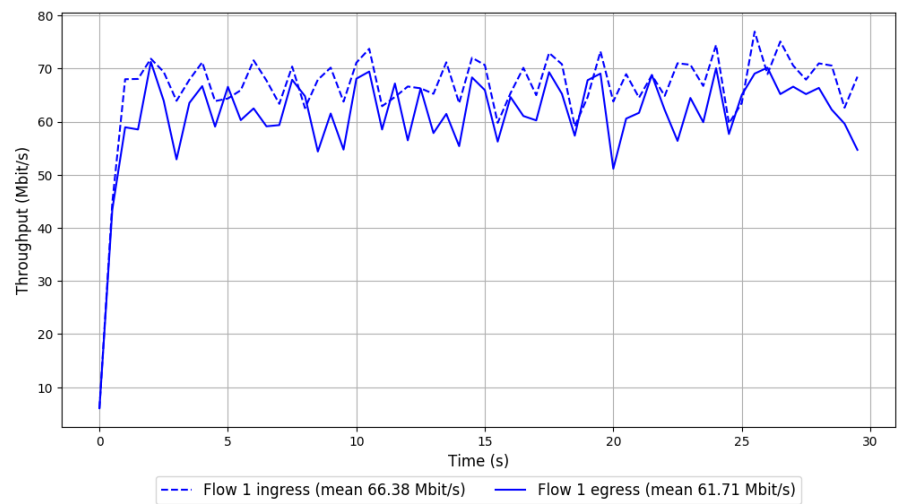
-- Flow 1:

Average throughput: 61.71 Mbit/s

95th percentile per-packet one-way delay: 94.640 ms

Loss rate: 7.59%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-04-10 11:29:54

End at: 2018-04-10 11:30:24

Local clock offset: -5.71 ms

Remote clock offset: 3.497 ms

Below is generated by plot.py at 2018-04-10 16:38:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 95.384 ms

Loss rate: 0.61%

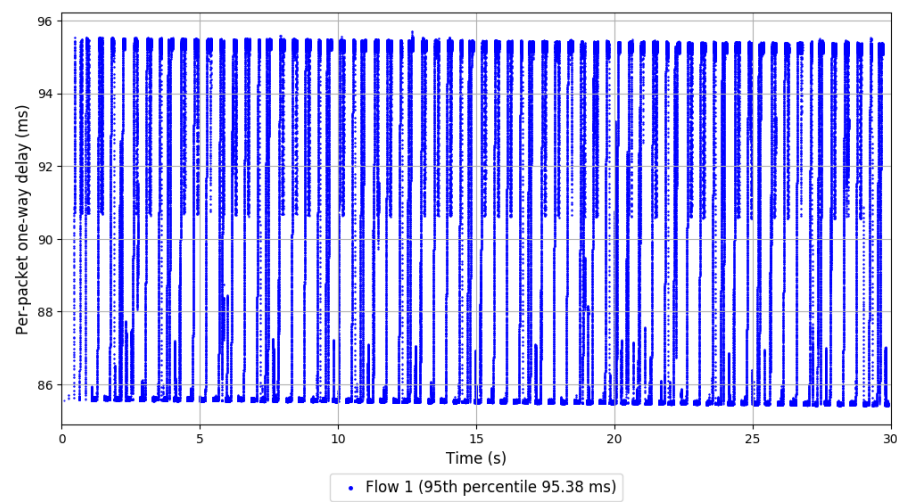
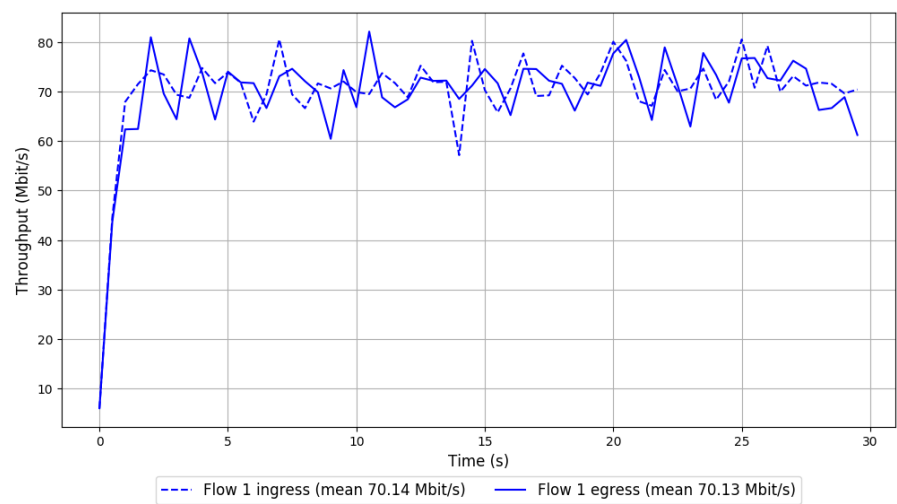
-- Flow 1:

Average throughput: 70.13 Mbit/s

95th percentile per-packet one-way delay: 95.384 ms

Loss rate: 0.61%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-10 11:52:16

End at: 2018-04-10 11:52:46

Local clock offset: -5.916 ms

Remote clock offset: 6.058 ms

Below is generated by plot.py at 2018-04-10 16:38:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 89.868 ms

Loss rate: 7.94%

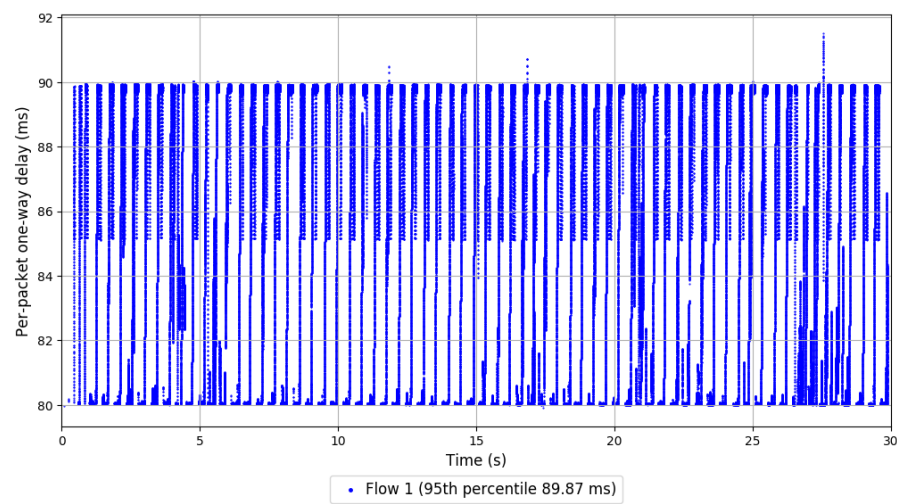
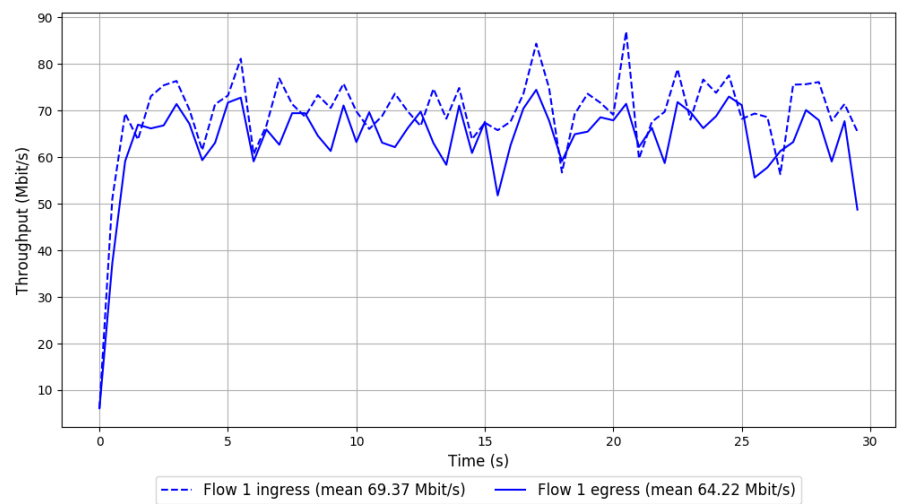
-- Flow 1:

Average throughput: 64.22 Mbit/s

95th percentile per-packet one-way delay: 89.868 ms

Loss rate: 7.94%

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

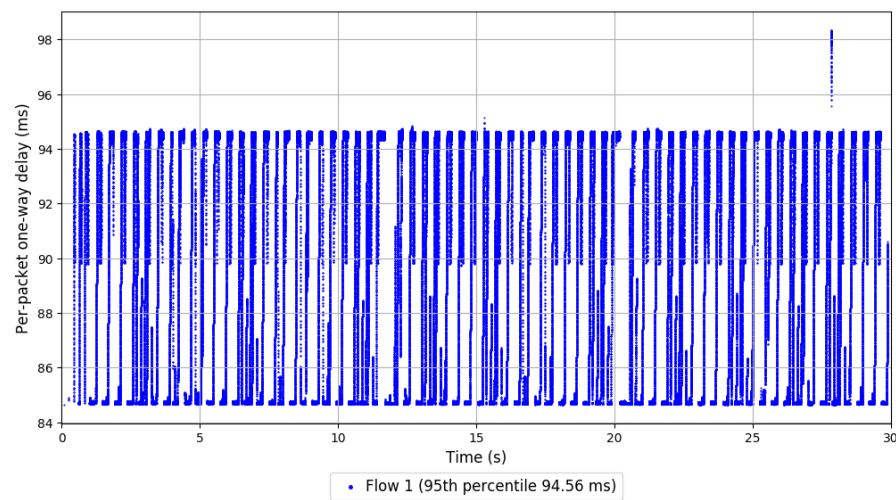
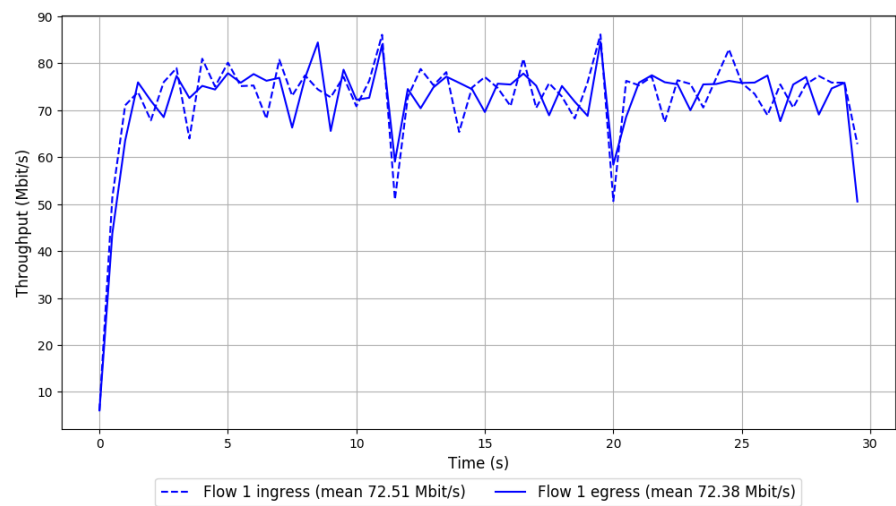


Run 9: Statistics of TaoVA-100x

Start at: 2018-04-10 12:14:37
End at: 2018-04-10 12:15:07
Local clock offset: -5.201 ms
Remote clock offset: -0.409 ms

Below is generated by plot.py at 2018-04-10 16:39:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.38 Mbit/s
95th percentile per-packet one-way delay: 94.565 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 72.38 Mbit/s
95th percentile per-packet one-way delay: 94.565 ms
Loss rate: 0.70%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-10 12:36:48

End at: 2018-04-10 12:37:18

Local clock offset: -6.756 ms

Remote clock offset: 5.589 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.20 Mbit/s

95th percentile per-packet one-way delay: 88.360 ms

Loss rate: 0.52%

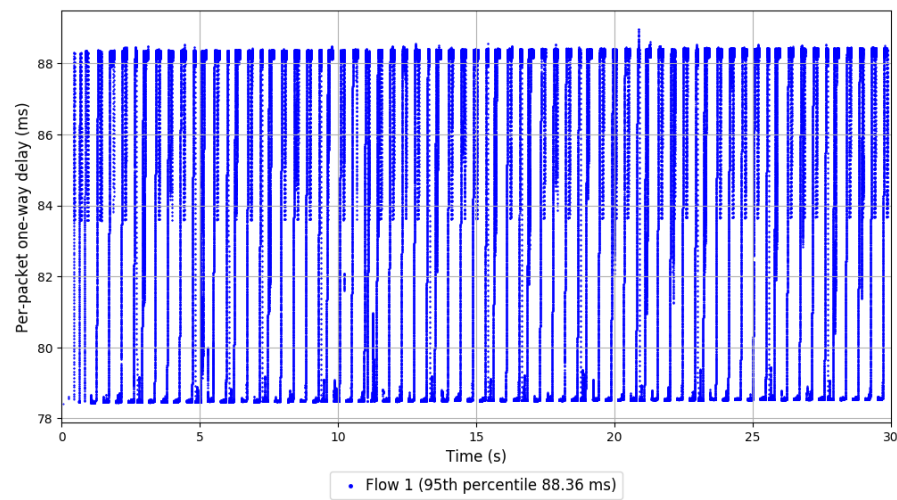
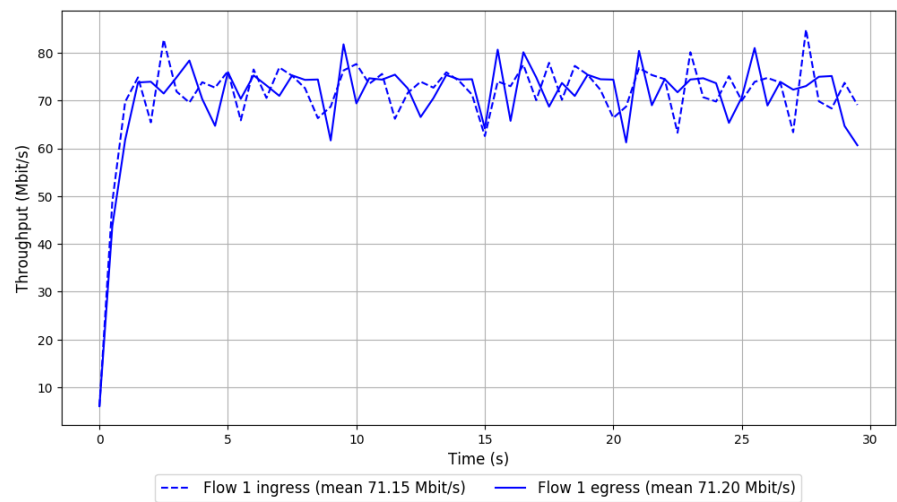
-- Flow 1:

Average throughput: 71.20 Mbit/s

95th percentile per-packet one-way delay: 88.360 ms

Loss rate: 0.52%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-10 09:14:16

End at: 2018-04-10 09:14:46

Local clock offset: -4.911 ms

Remote clock offset: 7.235 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 81.532 ms

Loss rate: 0.69%

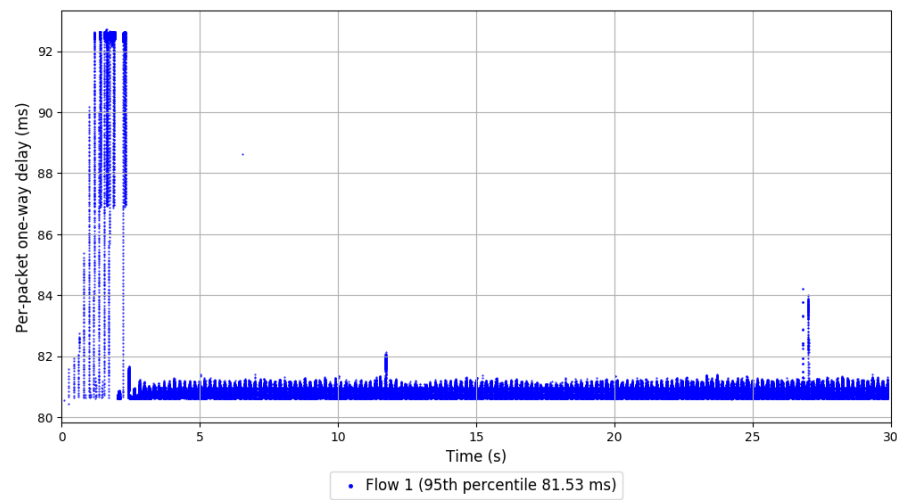
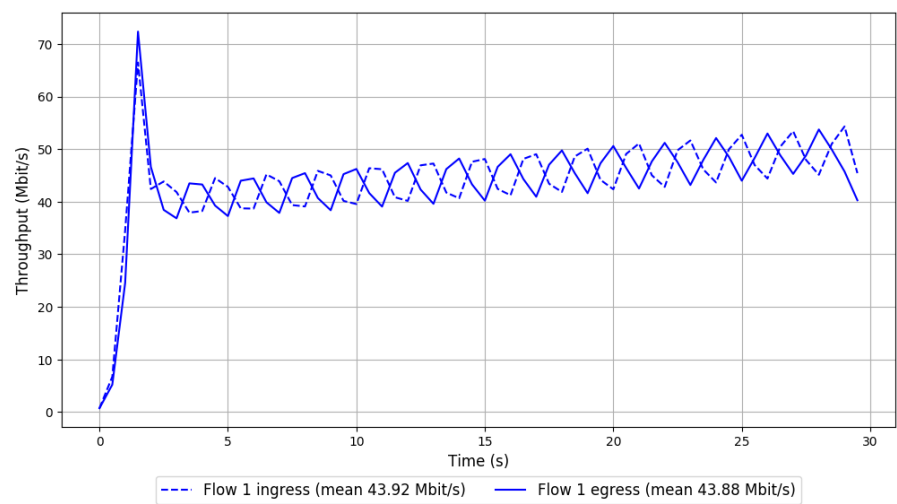
-- Flow 1:

Average throughput: 43.88 Mbit/s

95th percentile per-packet one-way delay: 81.532 ms

Loss rate: 0.69%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-10 09:36:24

End at: 2018-04-10 09:36:55

Local clock offset: -5.624 ms

Remote clock offset: 1.4 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 89.965 ms

Loss rate: 1.04%

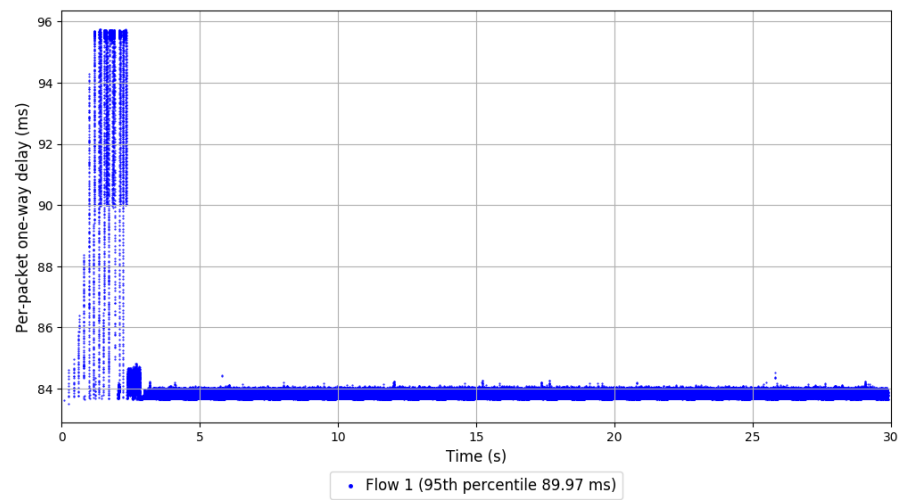
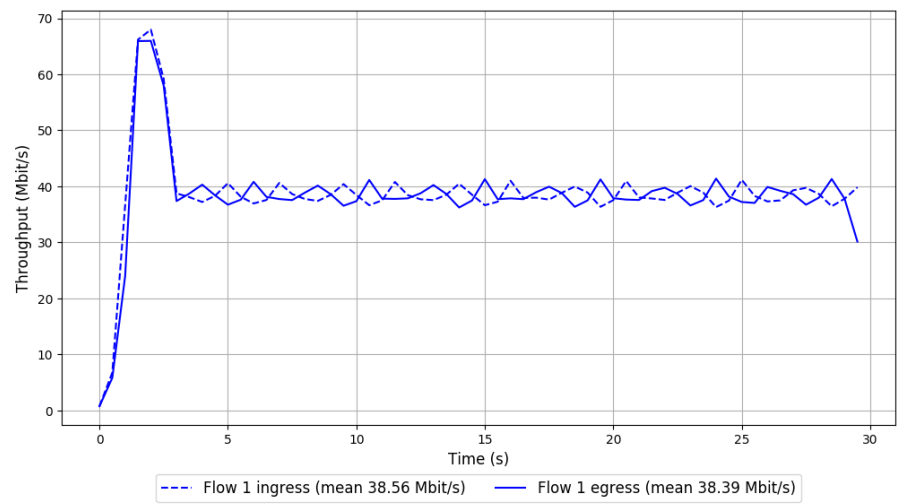
-- Flow 1:

Average throughput: 38.39 Mbit/s

95th percentile per-packet one-way delay: 89.965 ms

Loss rate: 1.04%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-10 09:58:38

End at: 2018-04-10 09:59:08

Local clock offset: -5.516 ms

Remote clock offset: 7.332 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 91.672 ms

Loss rate: 0.47%

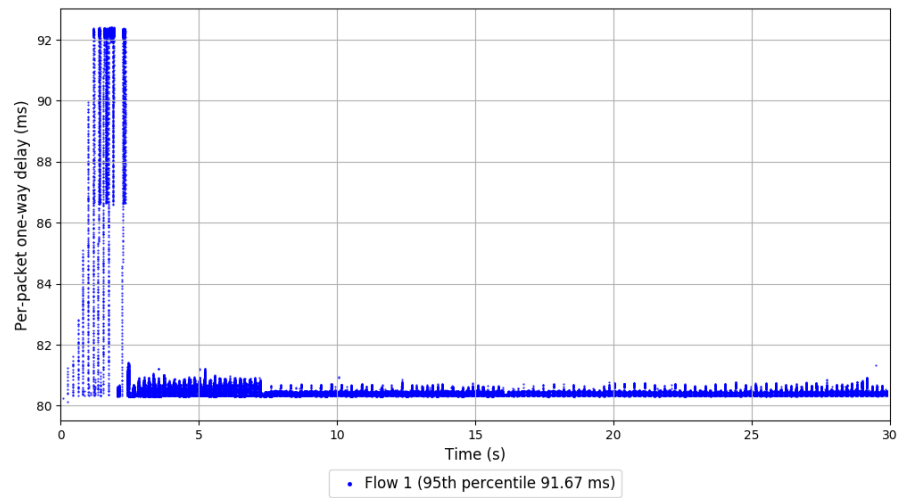
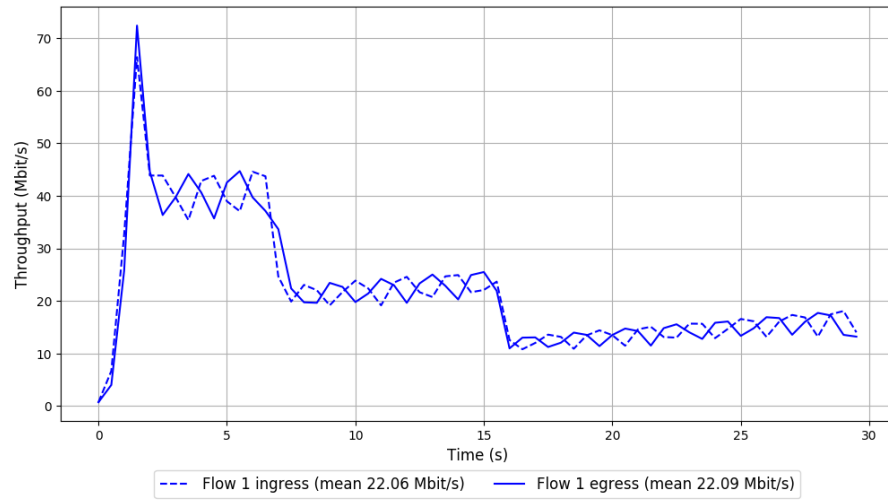
-- Flow 1:

Average throughput: 22.09 Mbit/s

95th percentile per-packet one-way delay: 91.672 ms

Loss rate: 0.47%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-10 10:20:48

End at: 2018-04-10 10:21:18

Local clock offset: -6.206 ms

Remote clock offset: 2.045 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 86.427 ms

Loss rate: 0.93%

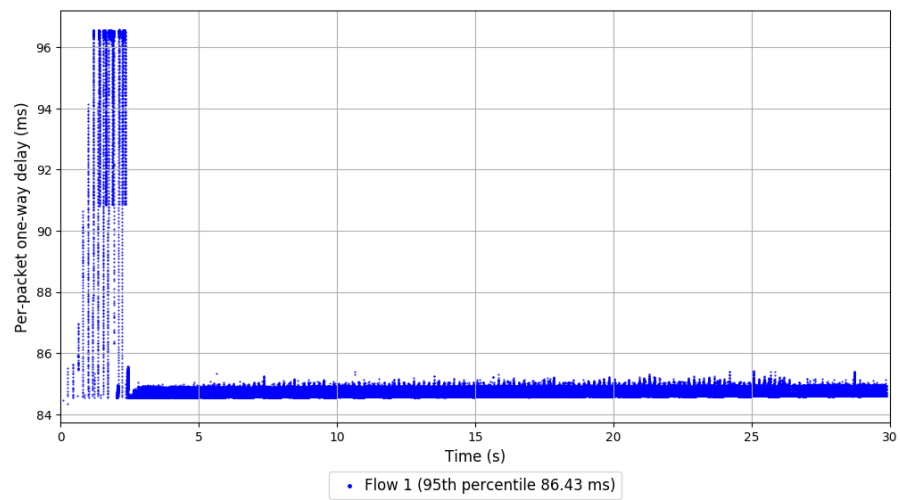
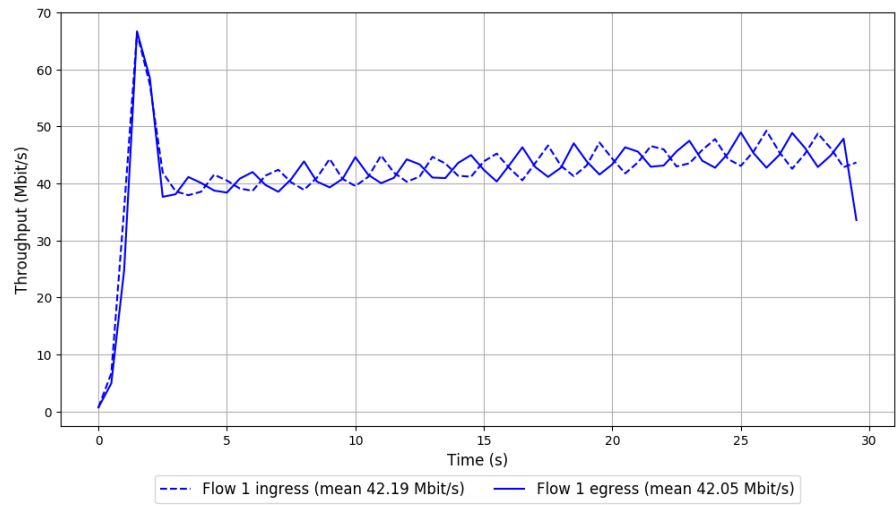
-- Flow 1:

Average throughput: 42.05 Mbit/s

95th percentile per-packet one-way delay: 86.427 ms

Loss rate: 0.93%

Run 4: Report of TCP Vegas — Data Link

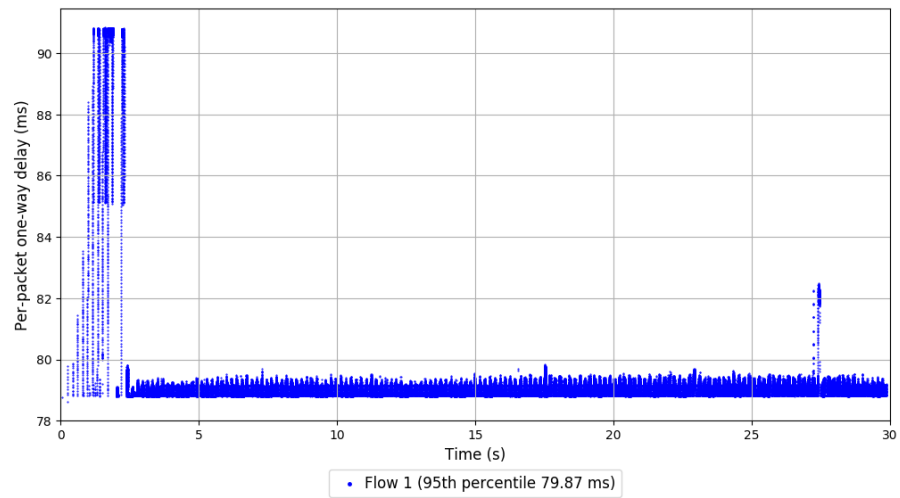
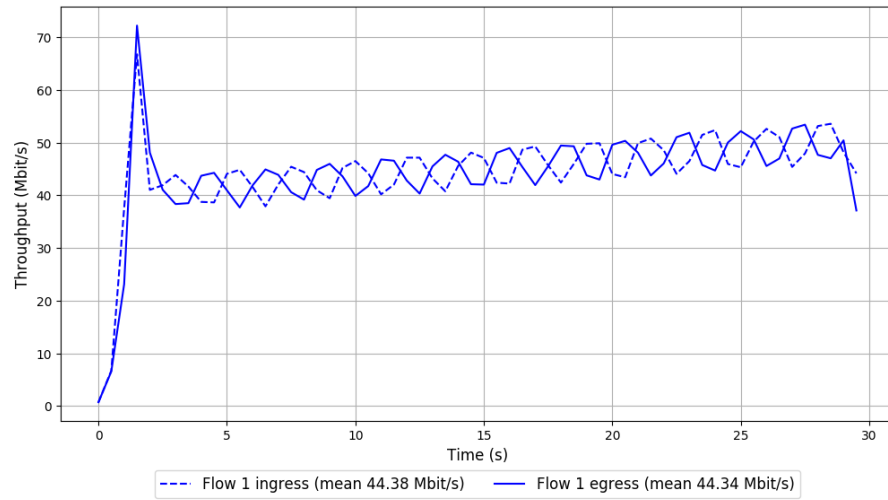


Run 5: Statistics of TCP Vegas

Start at: 2018-04-10 10:43:03
End at: 2018-04-10 10:43:33
Local clock offset: -5.281 ms
Remote clock offset: 10.014 ms

Below is generated by plot.py at 2018-04-10 16:39:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 79.869 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 79.869 ms
Loss rate: 0.68%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-10 11:05:12

End at: 2018-04-10 11:05:42

Local clock offset: -4.676 ms

Remote clock offset: 4.702 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.34 Mbit/s

95th percentile per-packet one-way delay: 85.109 ms

Loss rate: 0.61%

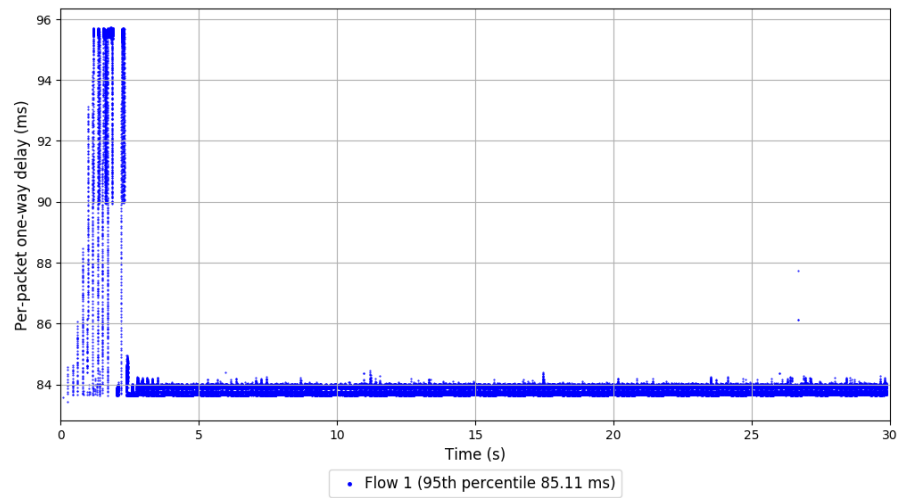
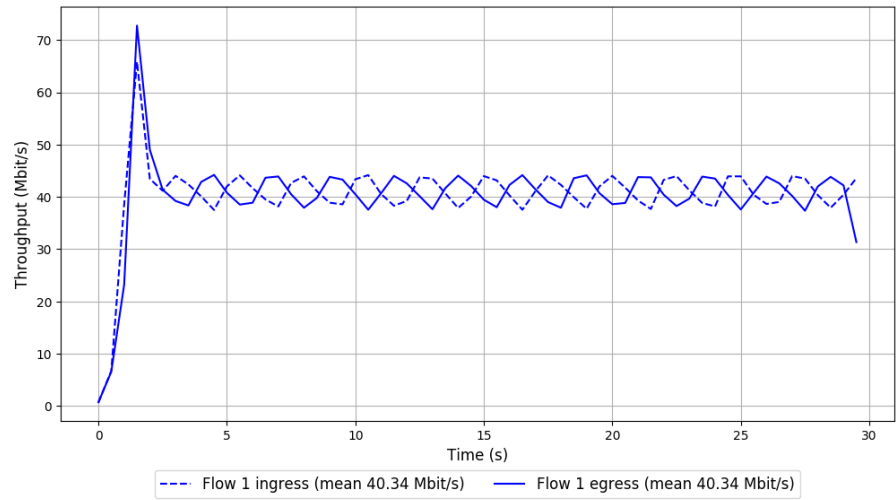
-- Flow 1:

Average throughput: 40.34 Mbit/s

95th percentile per-packet one-way delay: 85.109 ms

Loss rate: 0.61%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-04-10 11:27:26

End at: 2018-04-10 11:27:56

Local clock offset: -4.933 ms

Remote clock offset: 9.159 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.11 Mbit/s

95th percentile per-packet one-way delay: 82.614 ms

Loss rate: 0.69%

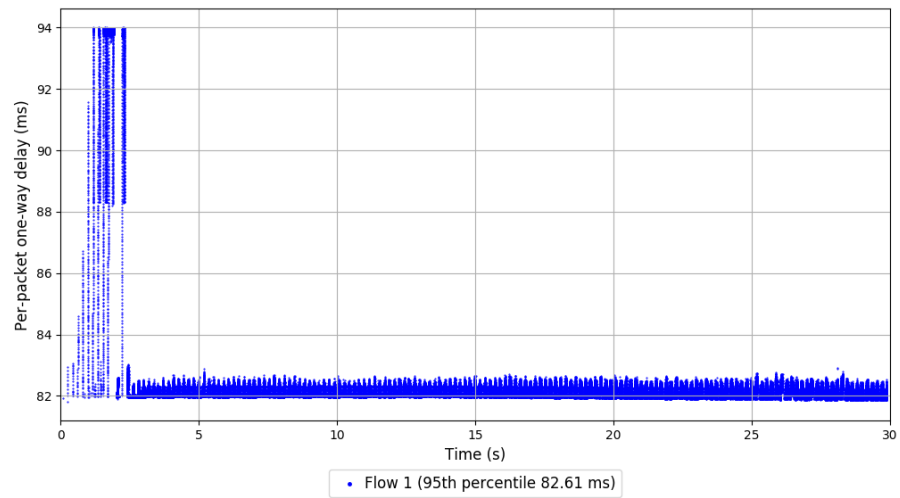
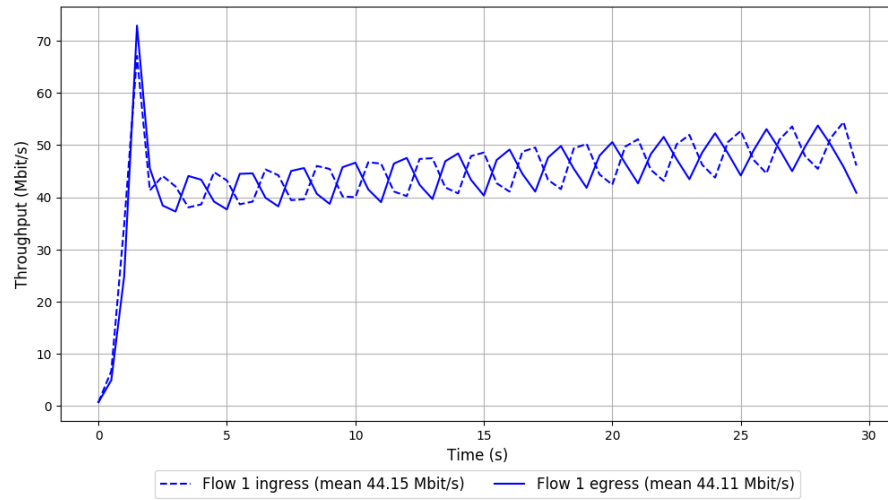
-- Flow 1:

Average throughput: 44.11 Mbit/s

95th percentile per-packet one-way delay: 82.614 ms

Loss rate: 0.69%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-10 11:49:39

End at: 2018-04-10 11:50:10

Local clock offset: -5.902 ms

Remote clock offset: 1.318 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 91.559 ms

Loss rate: 1.00%

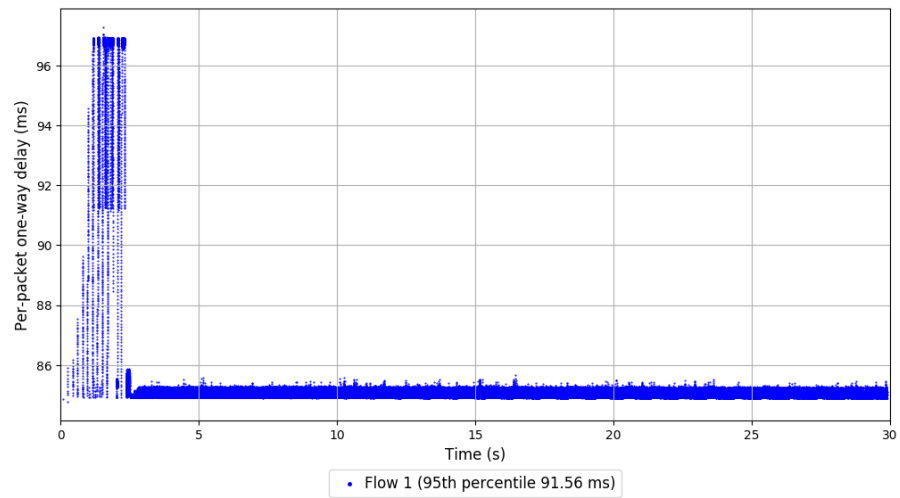
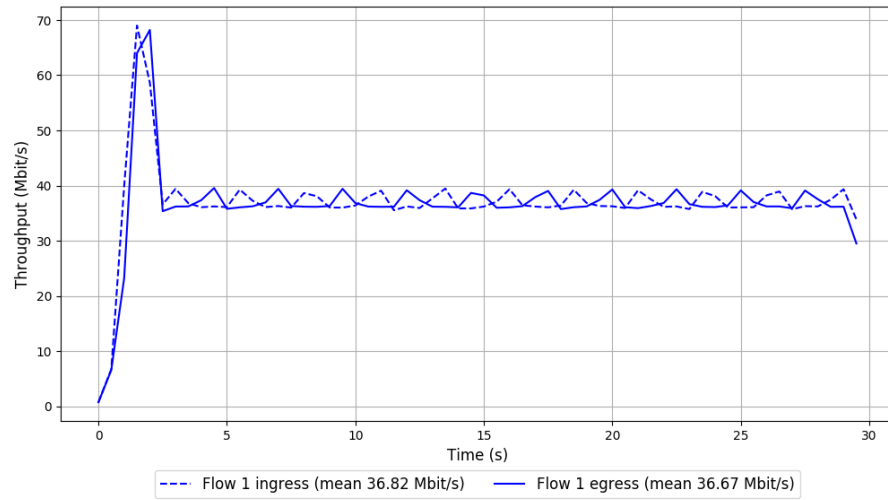
-- Flow 1:

Average throughput: 36.67 Mbit/s

95th percentile per-packet one-way delay: 91.559 ms

Loss rate: 1.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-10 12:12:08

End at: 2018-04-10 12:12:38

Local clock offset: -5.189 ms

Remote clock offset: 5.306 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 81.725 ms

Loss rate: 0.69%

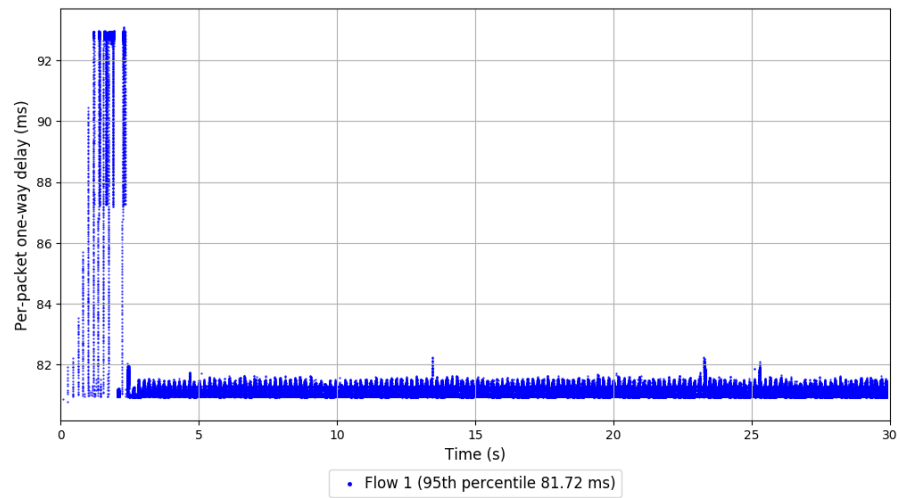
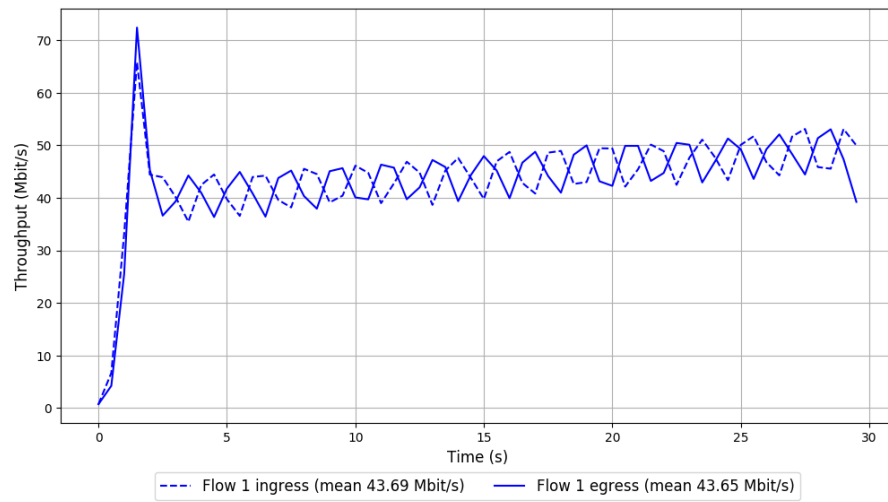
-- Flow 1:

Average throughput: 43.65 Mbit/s

95th percentile per-packet one-way delay: 81.725 ms

Loss rate: 0.69%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-10 12:34:20

End at: 2018-04-10 12:34:50

Local clock offset: -5.191 ms

Remote clock offset: 4.619 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 83.831 ms

Loss rate: 1.08%

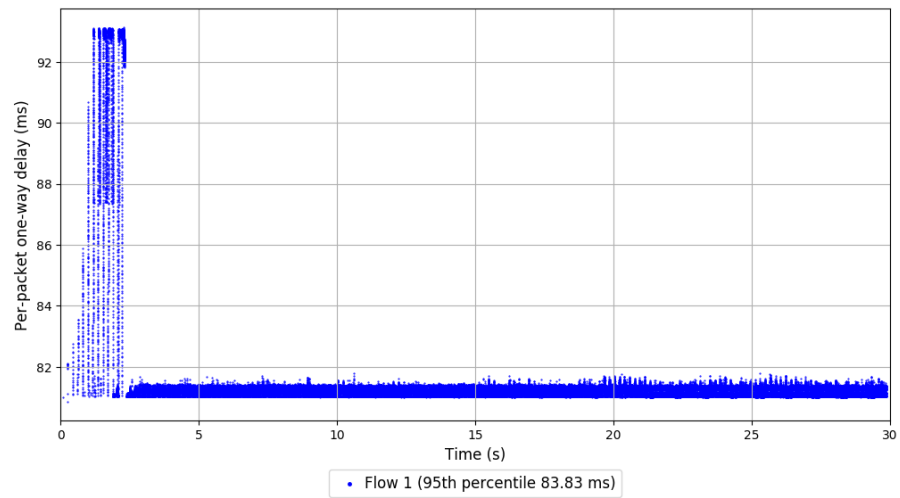
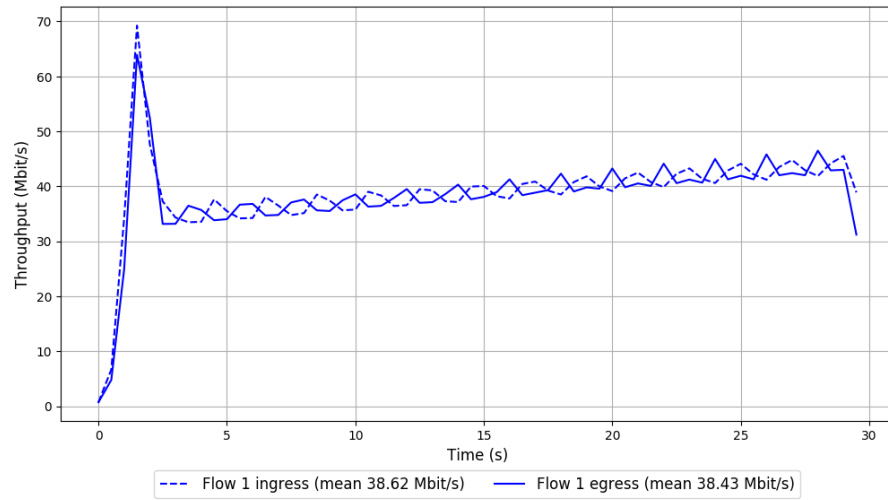
-- Flow 1:

Average throughput: 38.43 Mbit/s

95th percentile per-packet one-way delay: 83.831 ms

Loss rate: 1.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-10 09:13:03

End at: 2018-04-10 09:13:33

Local clock offset: -4.891 ms

Remote clock offset: 1.632 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.91 Mbit/s

95th percentile per-packet one-way delay: 98.086 ms

Loss rate: 0.48%

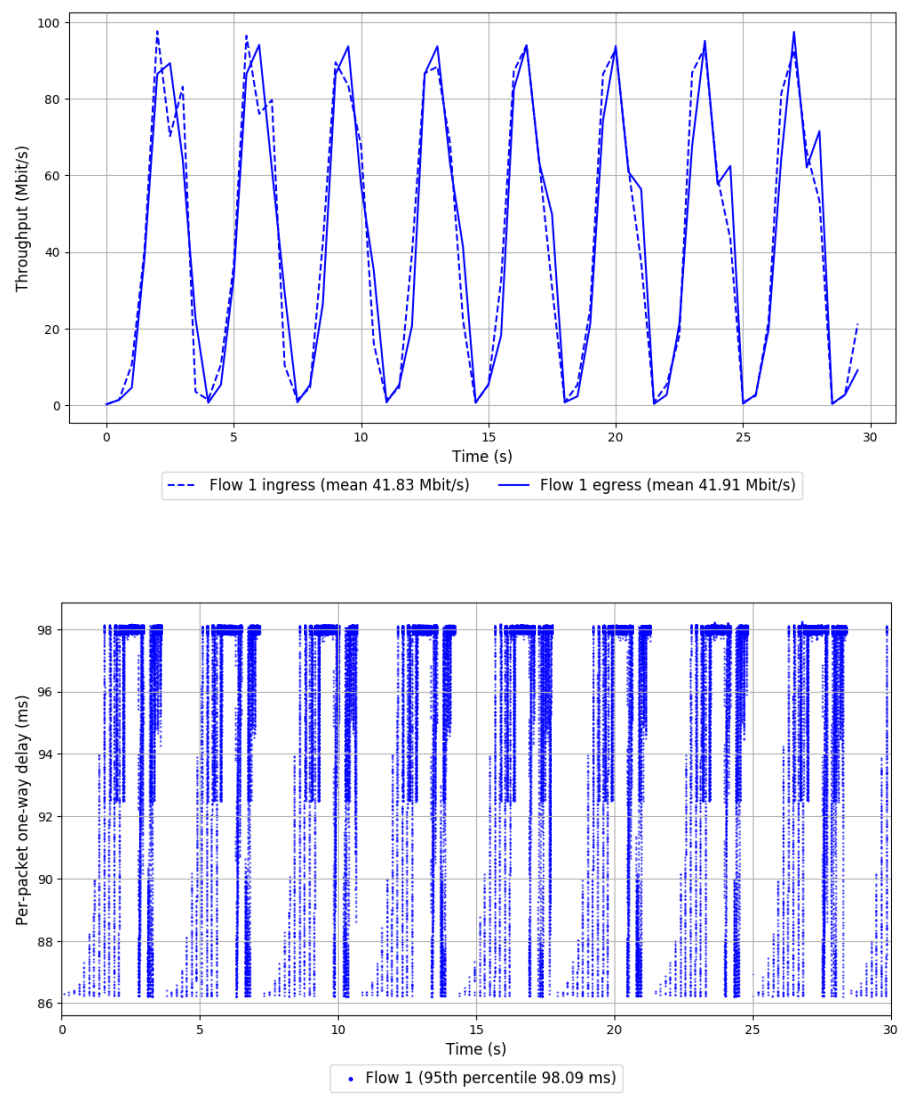
-- Flow 1:

Average throughput: 41.91 Mbit/s

95th percentile per-packet one-way delay: 98.086 ms

Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-10 09:35:12

End at: 2018-04-10 09:35:42

Local clock offset: -5.632 ms

Remote clock offset: 7.003 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 91.957 ms

Loss rate: 10.68%

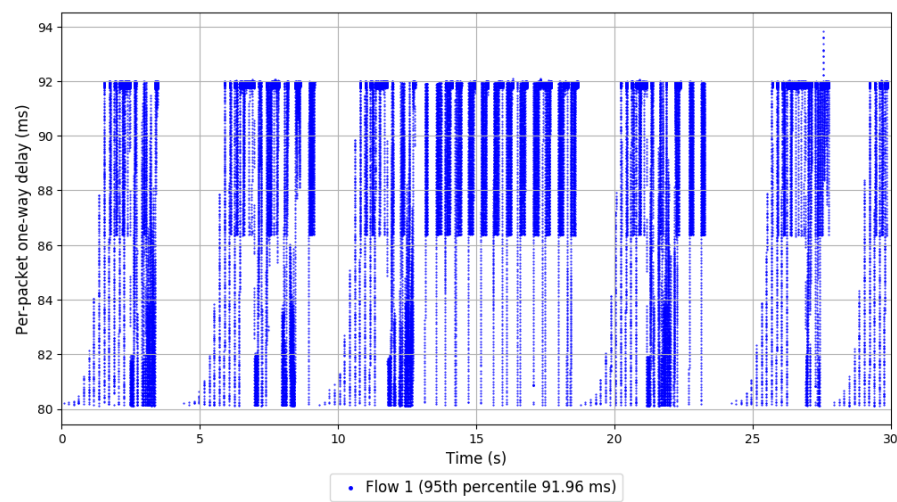
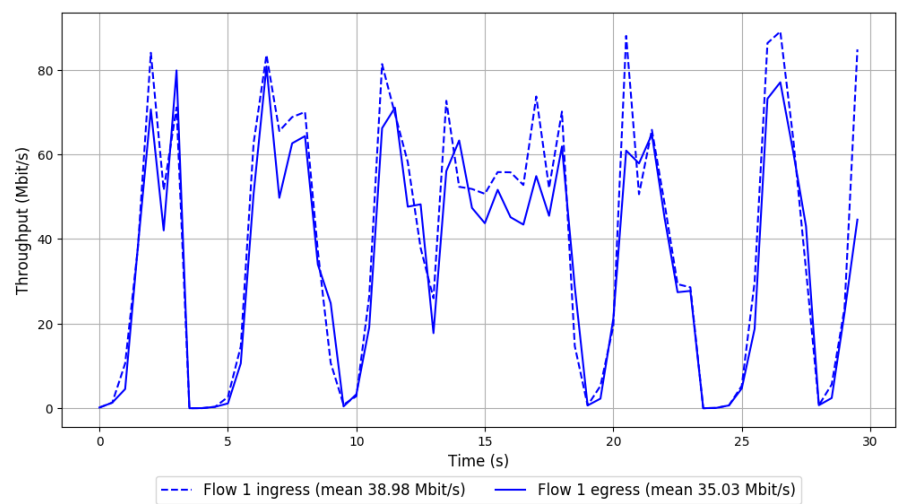
-- Flow 1:

Average throughput: 35.03 Mbit/s

95th percentile per-packet one-way delay: 91.957 ms

Loss rate: 10.68%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-10 09:57:24

End at: 2018-04-10 09:57:54

Local clock offset: -5.546 ms

Remote clock offset: 1.769 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.22 Mbit/s

95th percentile per-packet one-way delay: 97.868 ms

Loss rate: 0.48%

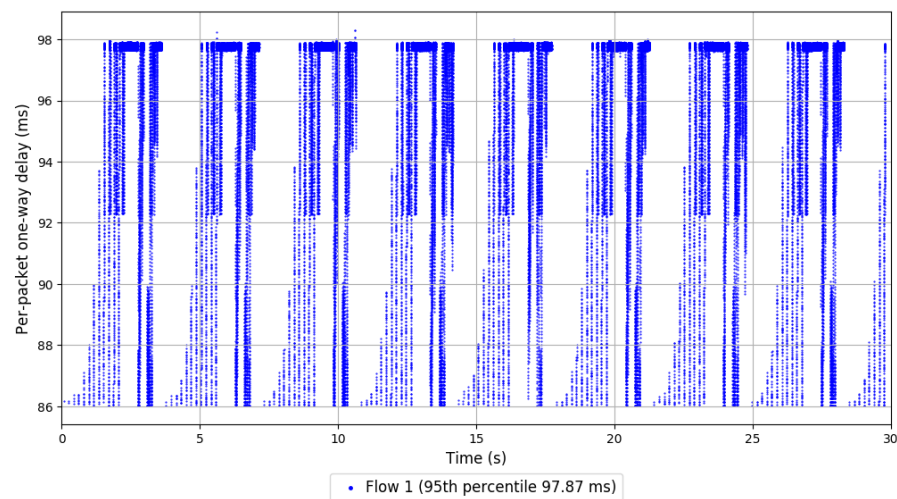
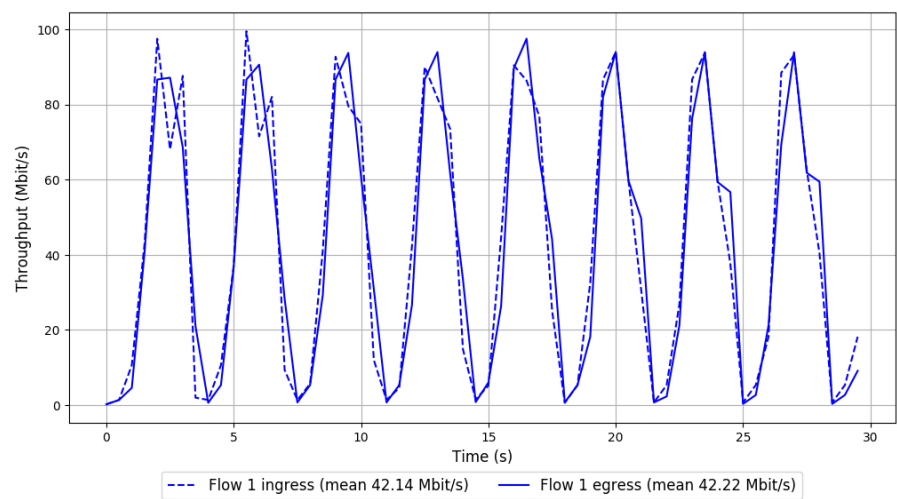
-- Flow 1:

Average throughput: 42.22 Mbit/s

95th percentile per-packet one-way delay: 97.868 ms

Loss rate: 0.48%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-10 10:19:34

End at: 2018-04-10 10:20:04

Local clock offset: -4.629 ms

Remote clock offset: 8.411 ms

Below is generated by plot.py at 2018-04-10 16:39:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 90.300 ms

Loss rate: 10.61%

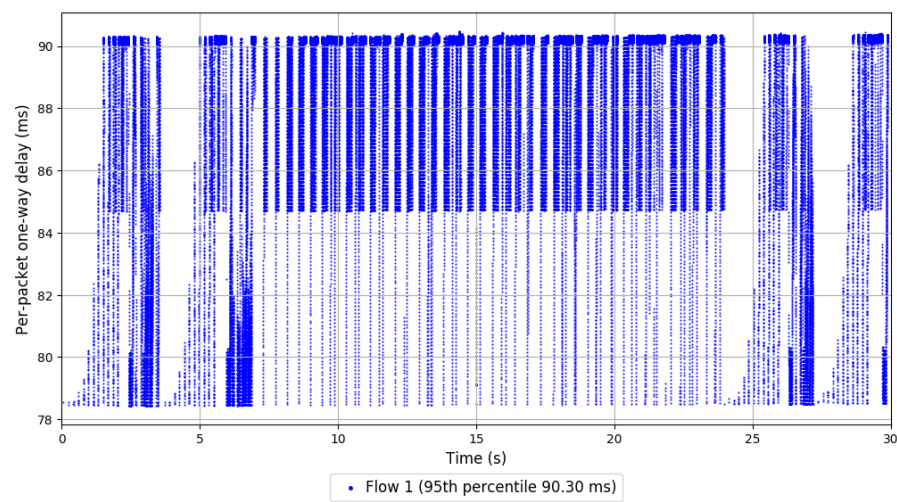
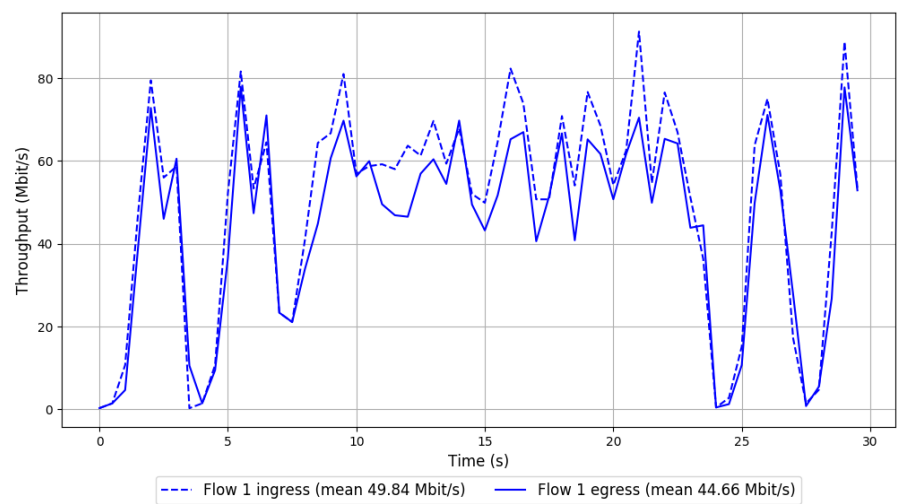
-- Flow 1:

Average throughput: 44.66 Mbit/s

95th percentile per-packet one-way delay: 90.300 ms

Loss rate: 10.61%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-10 10:41:49

End at: 2018-04-10 10:42:19

Local clock offset: -5.269 ms

Remote clock offset: 3.488 ms

Below is generated by plot.py at 2018-04-10 16:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 97.961 ms

Loss rate: 1.01%

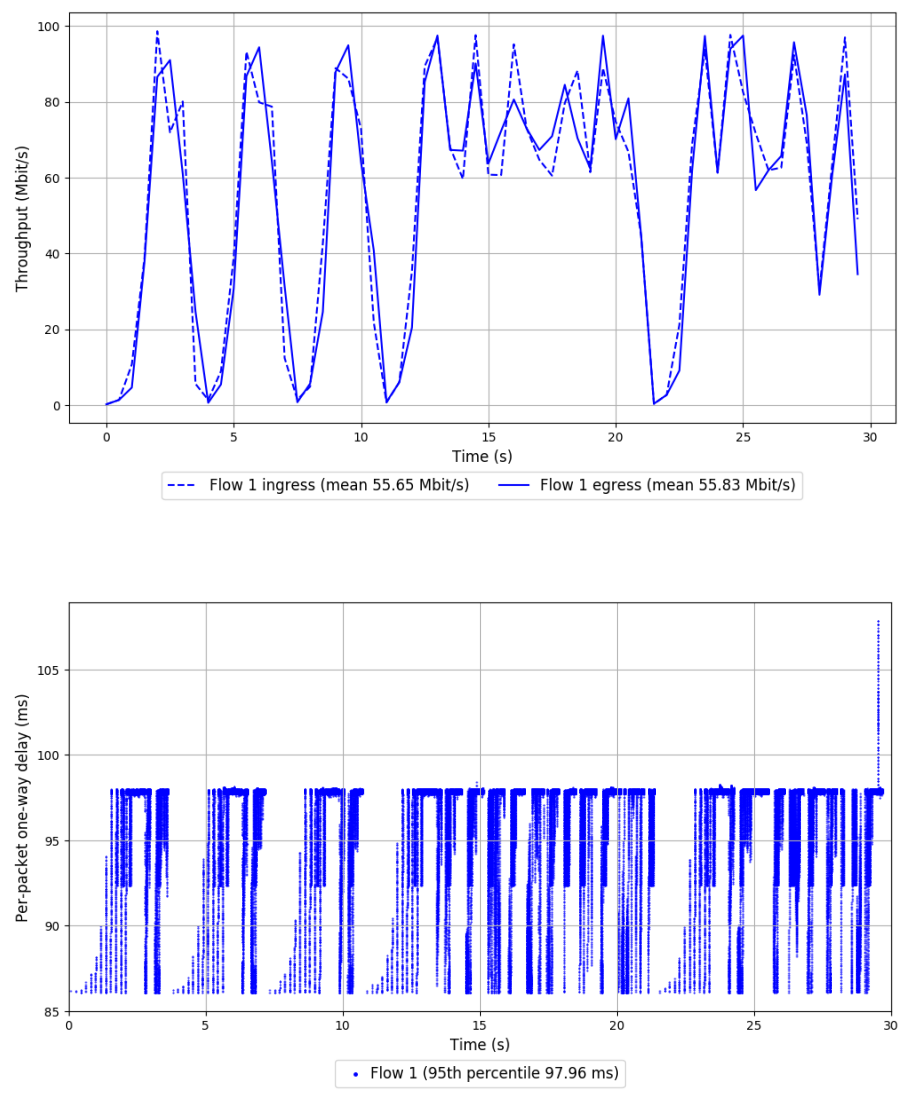
-- Flow 1:

Average throughput: 55.83 Mbit/s

95th percentile per-packet one-way delay: 97.961 ms

Loss rate: 1.01%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-10 11:03:59

End at: 2018-04-10 11:04:29

Local clock offset: -6.249 ms

Remote clock offset: 3.9 ms

Below is generated by plot.py at 2018-04-10 16:40:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 96.787 ms

Loss rate: 0.12%

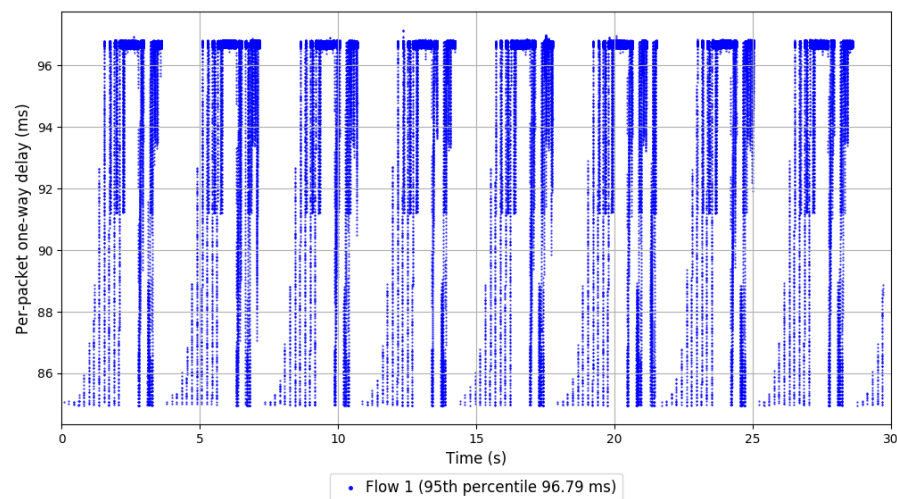
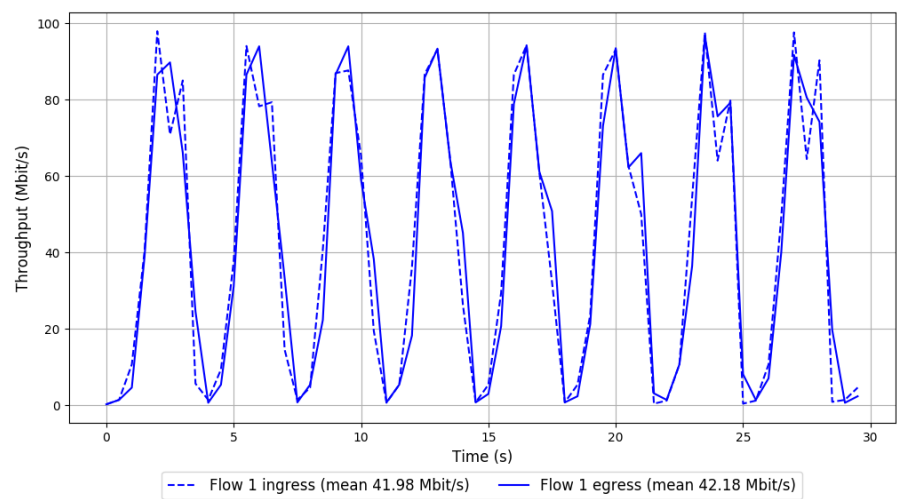
-- Flow 1:

Average throughput: 42.18 Mbit/s

95th percentile per-packet one-way delay: 96.787 ms

Loss rate: 0.12%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-10 11:26:12

End at: 2018-04-10 11:26:42

Remote clock offset: 5.143 ms

Below is generated by plot.py at 2018-04-10 16:40:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 107.506 ms

Loss rate: 0.31%

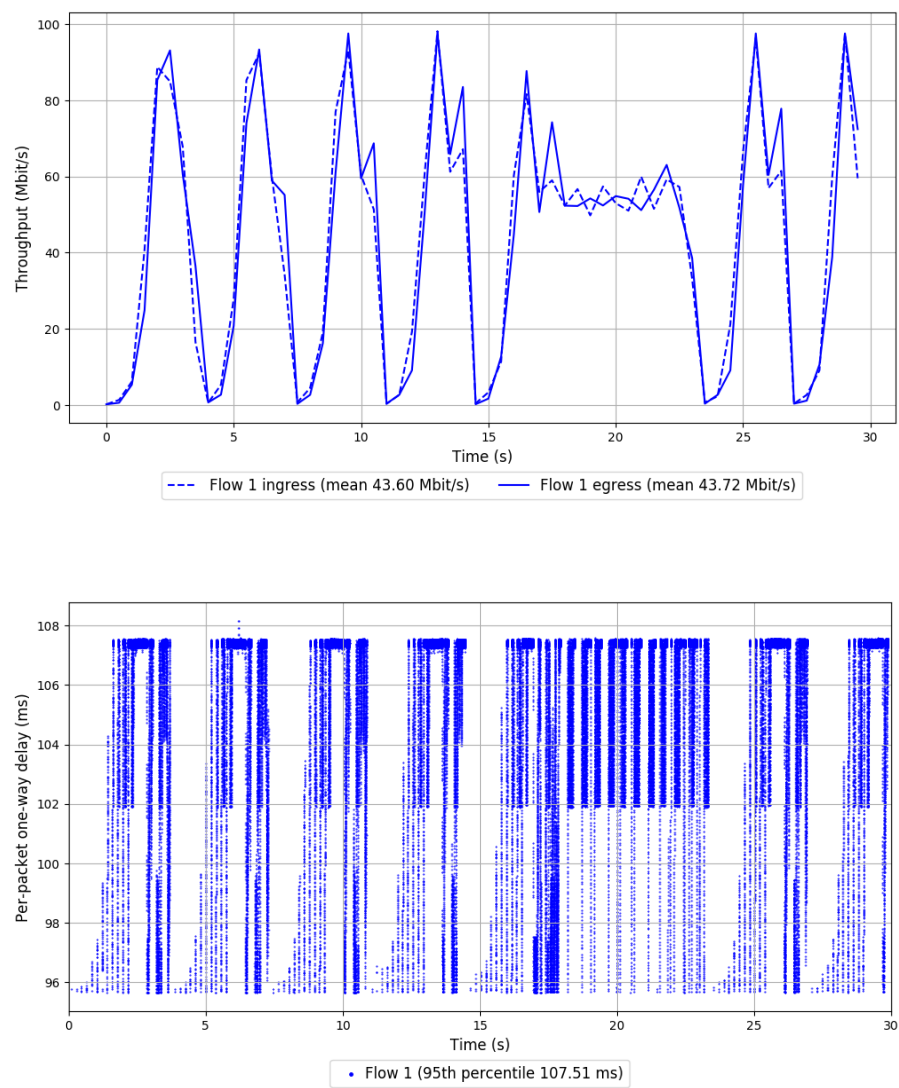
-- Flow 1:

Average throughput: 43.72 Mbit/s

95th percentile per-packet one-way delay: 107.506 ms

Loss rate: 0.31%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-10 11:48:26

End at: 2018-04-10 11:48:56

Local clock offset: -6.691 ms

Remote clock offset: 6.269 ms

Below is generated by plot.py at 2018-04-10 16:40:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 89.528 ms

Loss rate: 0.48%

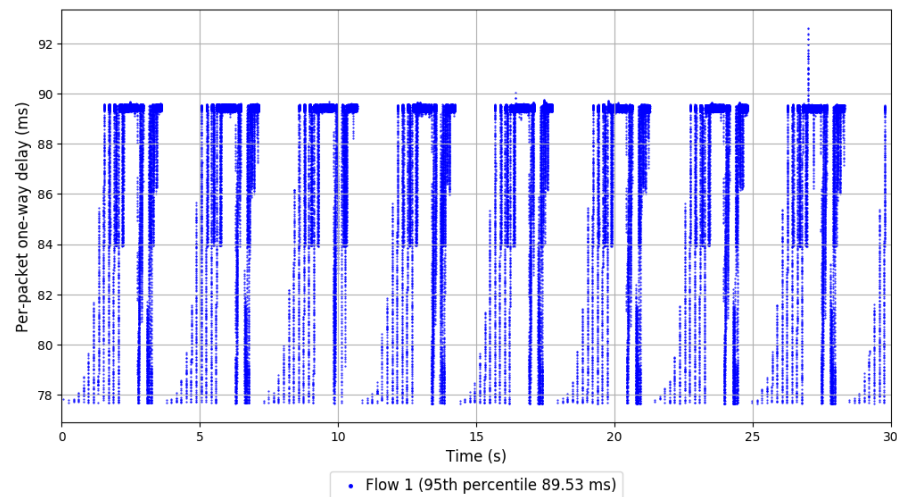
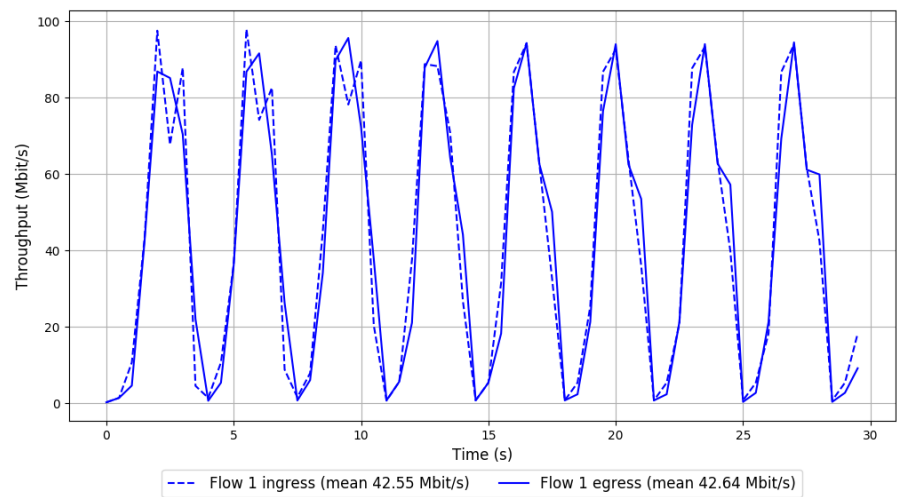
-- Flow 1:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 89.528 ms

Loss rate: 0.48%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-10 12:10:55

End at: 2018-04-10 12:11:25

Local clock offset: -5.97 ms

Remote clock offset: 5.349 ms

Below is generated by plot.py at 2018-04-10 16:40:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.93 Mbit/s

95th percentile per-packet one-way delay: 91.974 ms

Loss rate: 0.06%

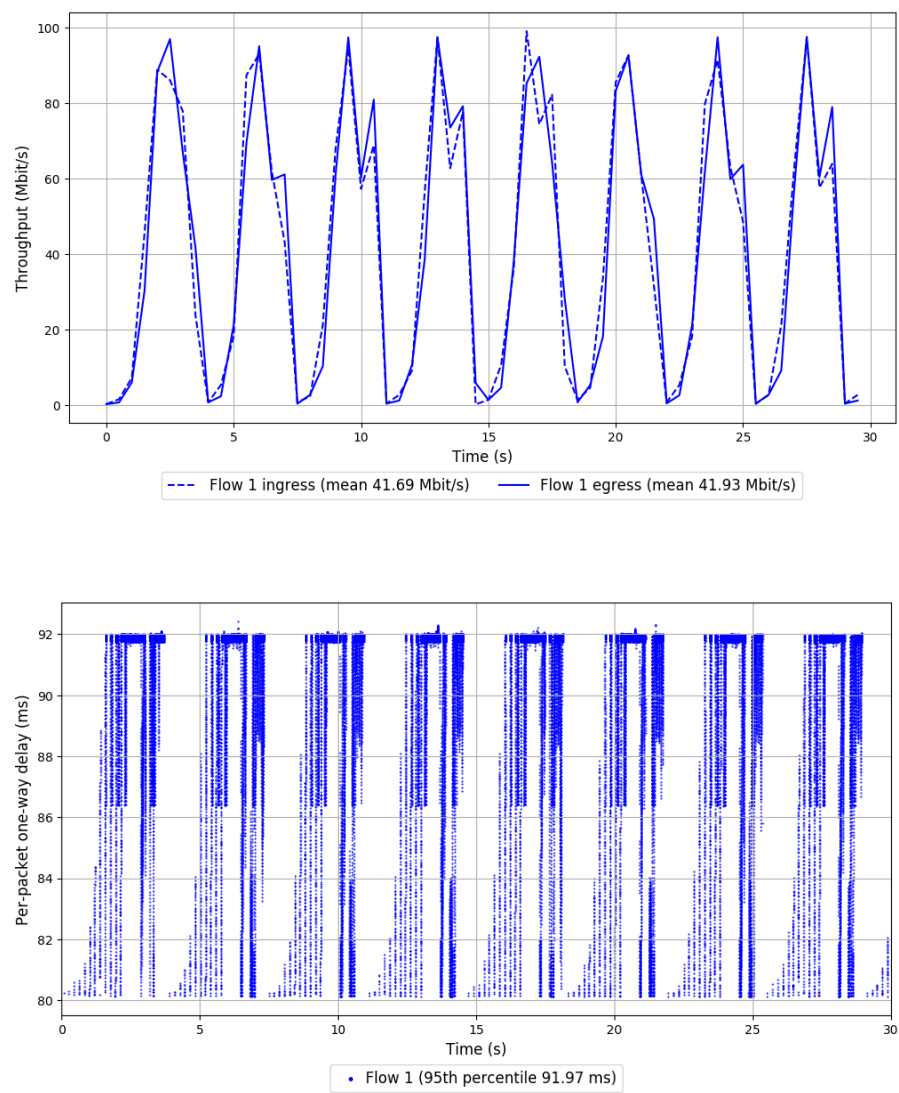
-- Flow 1:

Average throughput: 41.93 Mbit/s

95th percentile per-packet one-way delay: 91.974 ms

Loss rate: 0.06%

Run 9: Report of Verus — Data Link

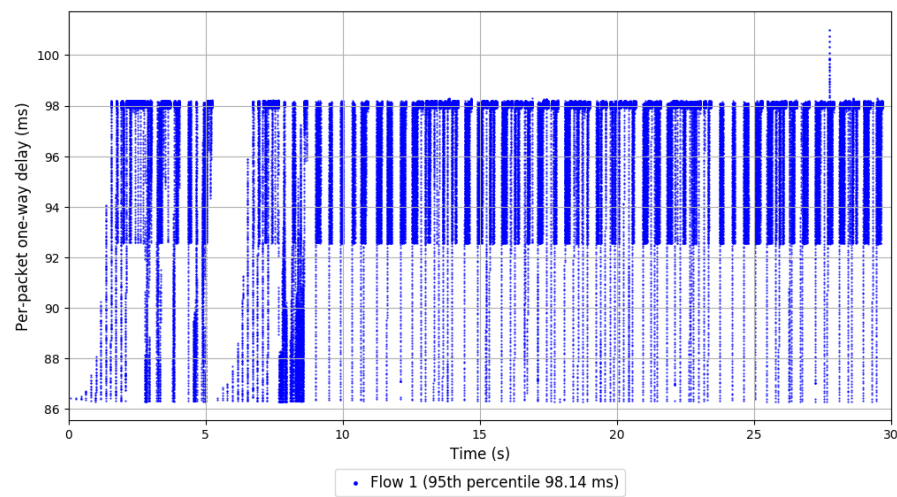
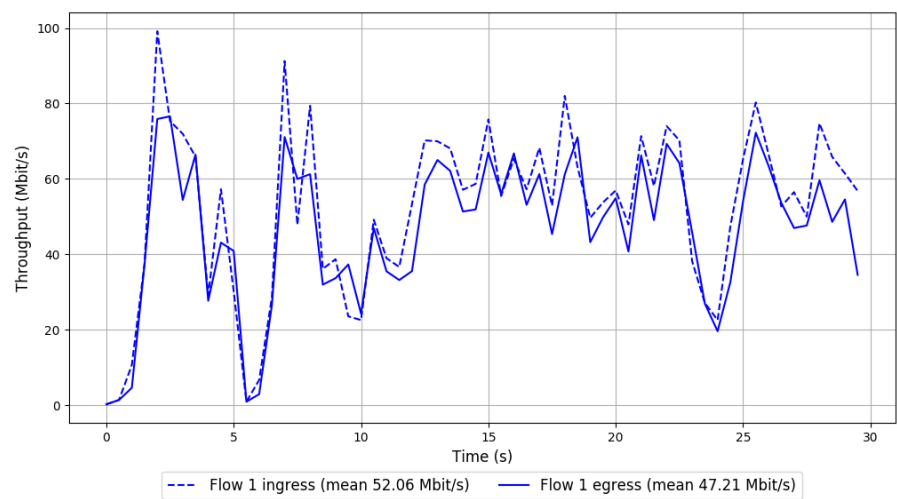


Run 10: Statistics of Verus

Start at: 2018-04-10 12:33:06
End at: 2018-04-10 12:33:36
Local clock offset: -5.206 ms
Remote clock offset: -1.017 ms

Below is generated by plot.py at 2018-04-10 16:40:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 47.21 Mbit/s
95th percentile per-packet one-way delay: 98.142 ms
Loss rate: 10.45%
-- Flow 1:
Average throughput: 47.21 Mbit/s
95th percentile per-packet one-way delay: 98.142 ms
Loss rate: 10.45%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-10 09:09:19

End at: 2018-04-10 09:09:49

Local clock offset: -4.932 ms

Remote clock offset: 2.442 ms

Below is generated by plot.py at 2018-04-10 16:42:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 85.575 ms

Loss rate: 16.08%

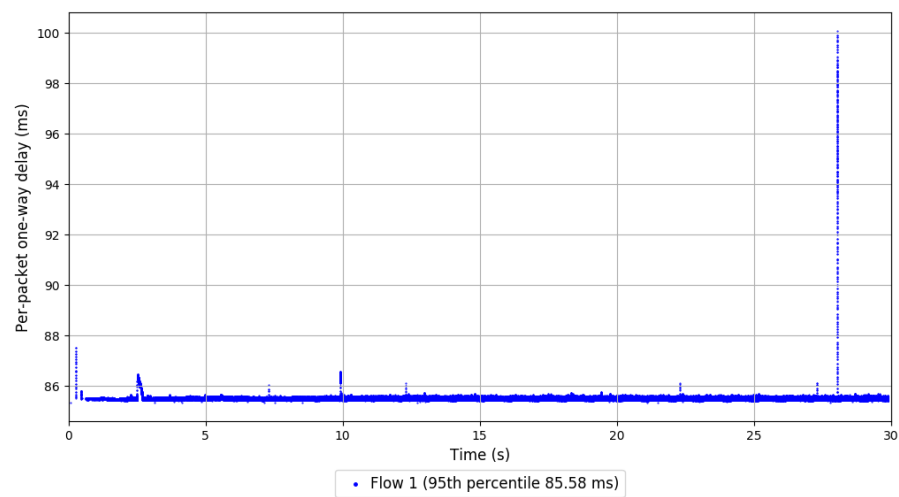
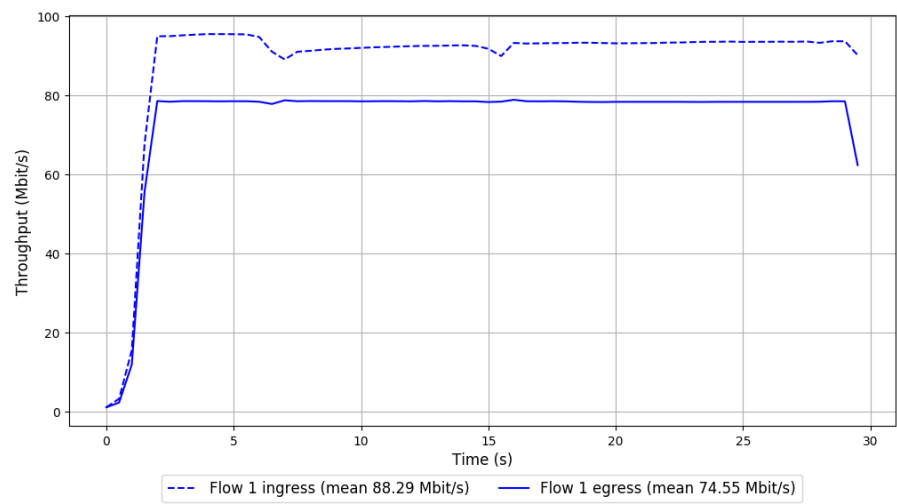
-- Flow 1:

Average throughput: 74.55 Mbit/s

95th percentile per-packet one-way delay: 85.575 ms

Loss rate: 16.08%

Run 1: Report of Copa — Data Link

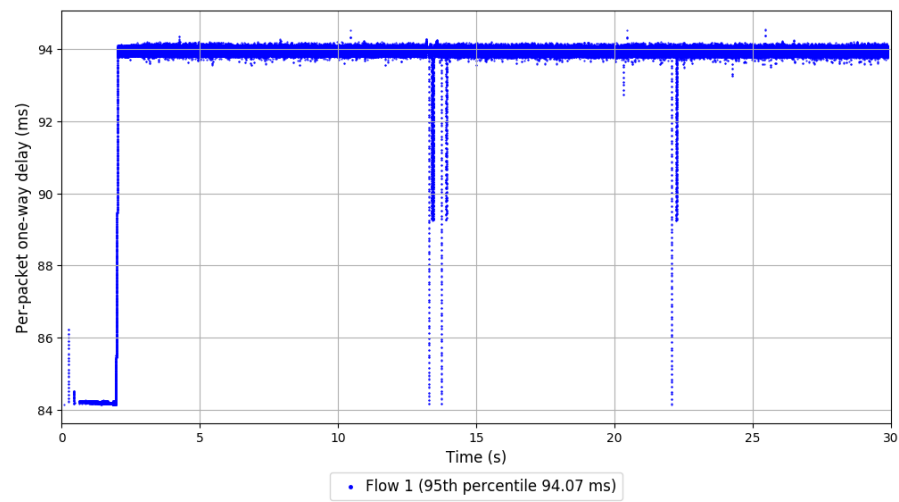
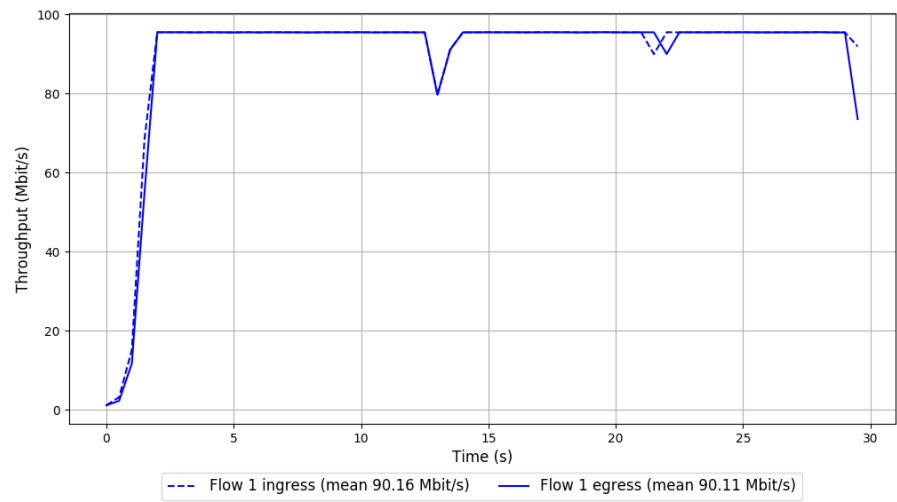


Run 2: Statistics of Copa

Start at: 2018-04-10 09:31:28
End at: 2018-04-10 09:31:58
Local clock offset: -6.428 ms
Remote clock offset: 2.236 ms

Below is generated by plot.py at 2018-04-10 16:42:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 94.072 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 90.11 Mbit/s
95th percentile per-packet one-way delay: 94.072 ms
Loss rate: 0.67%

Run 2: Report of Copa — Data Link

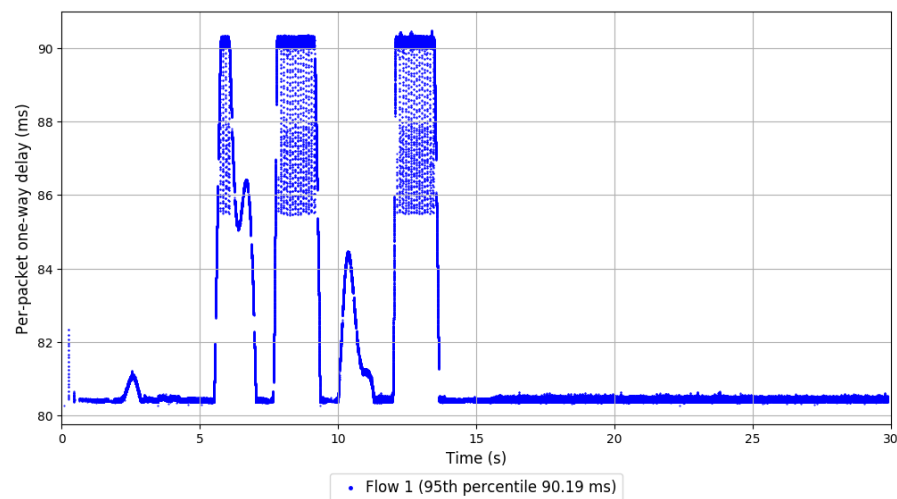
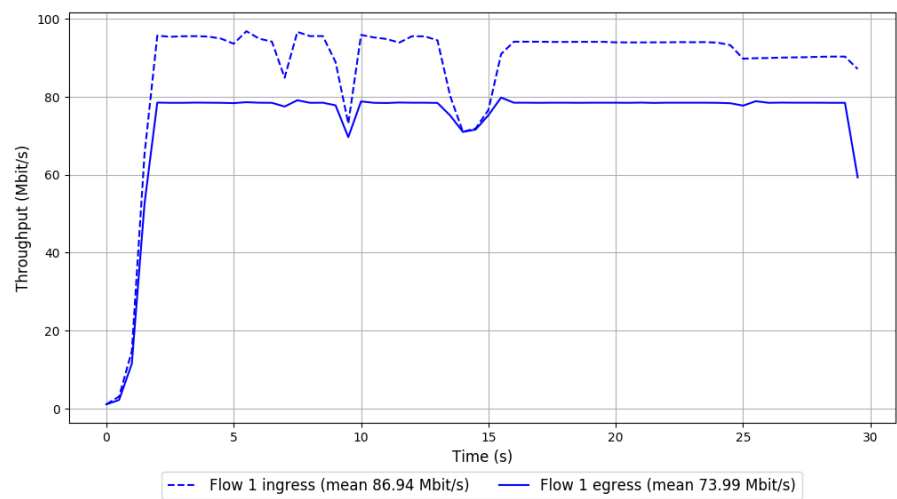


Run 3: Statistics of Copa

Start at: 2018-04-10 09:53:40
End at: 2018-04-10 09:54:10
Local clock offset: -4.759 ms
Remote clock offset: 8.157 ms

Below is generated by plot.py at 2018-04-10 16:42:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 90.187 ms
Loss rate: 15.41%
-- Flow 1:
Average throughput: 73.99 Mbit/s
95th percentile per-packet one-way delay: 90.187 ms
Loss rate: 15.41%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-10 10:15:50

End at: 2018-04-10 10:16:20

Local clock offset: -6.222 ms

Remote clock offset: 8.454 ms

Below is generated by plot.py at 2018-04-10 16:42:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 88.288 ms

Loss rate: 0.68%

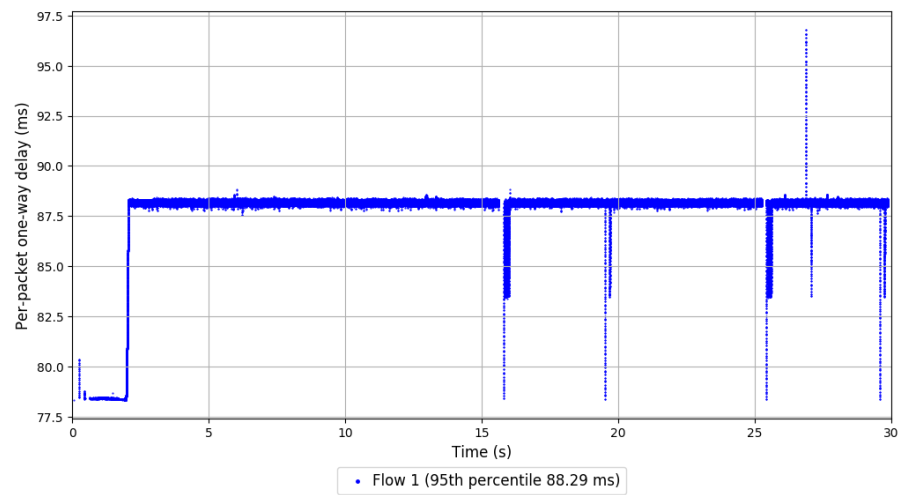
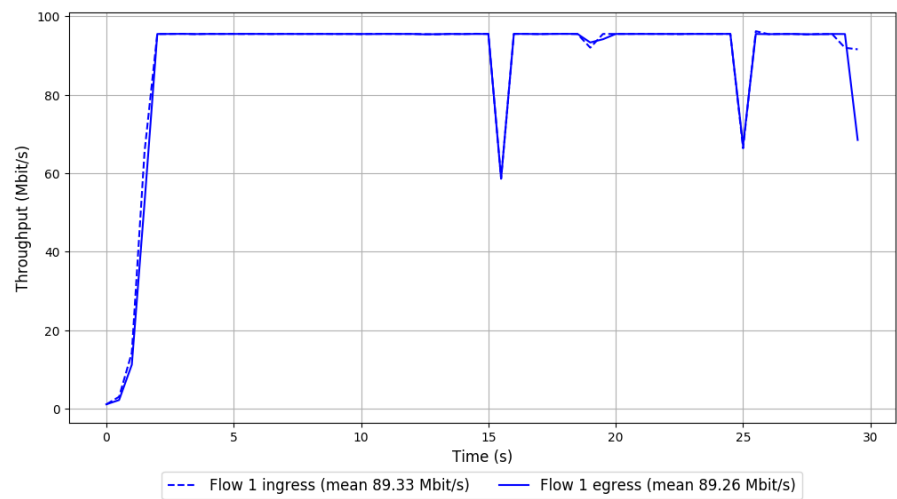
-- Flow 1:

Average throughput: 89.26 Mbit/s

95th percentile per-packet one-way delay: 88.288 ms

Loss rate: 0.68%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-10 10:38:04

End at: 2018-04-10 10:38:34

Local clock offset: -6.115 ms

Remote clock offset: 9.038 ms

Below is generated by plot.py at 2018-04-10 16:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 82.960 ms

Loss rate: 0.64%

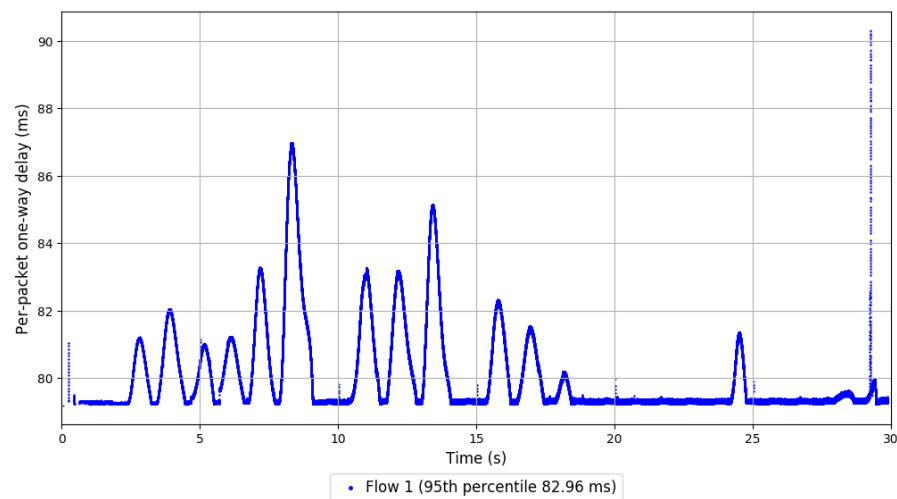
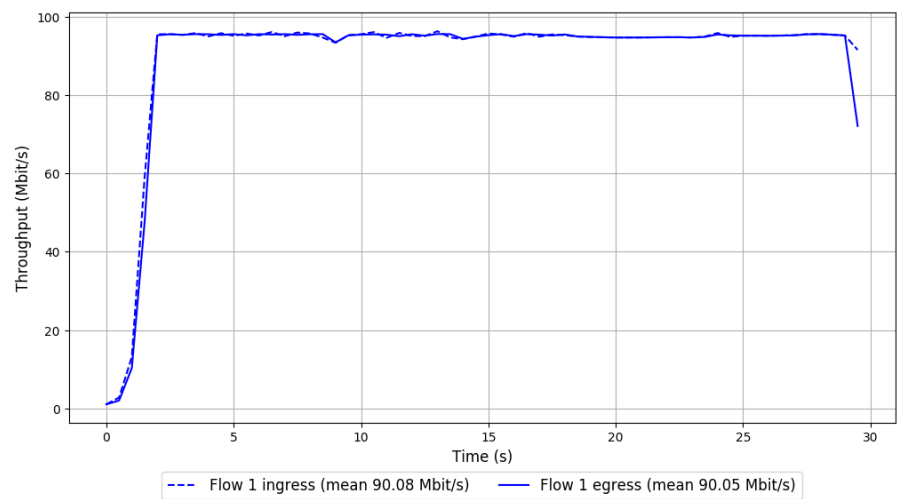
-- Flow 1:

Average throughput: 90.05 Mbit/s

95th percentile per-packet one-way delay: 82.960 ms

Loss rate: 0.64%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-10 11:00:15

End at: 2018-04-10 11:00:45

Local clock offset: -5.474 ms

Remote clock offset: 3.845 ms

Below is generated by plot.py at 2018-04-10 16:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 95.389 ms

Loss rate: 0.67%

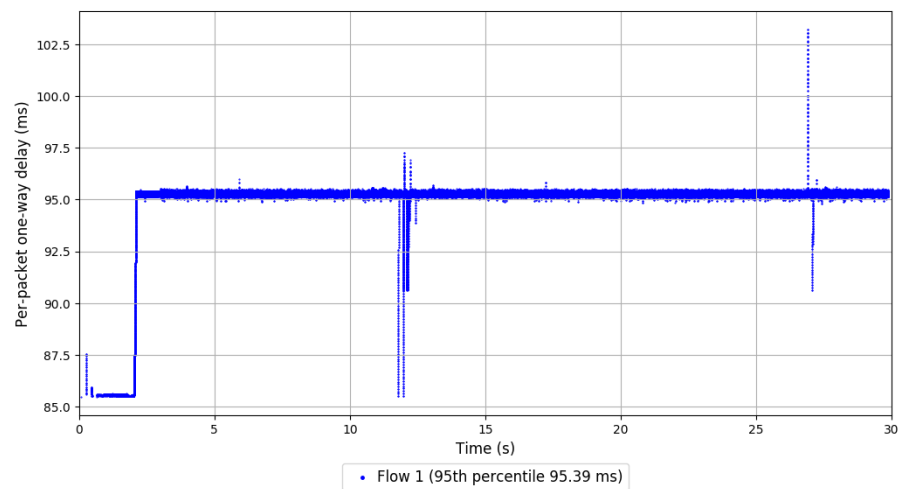
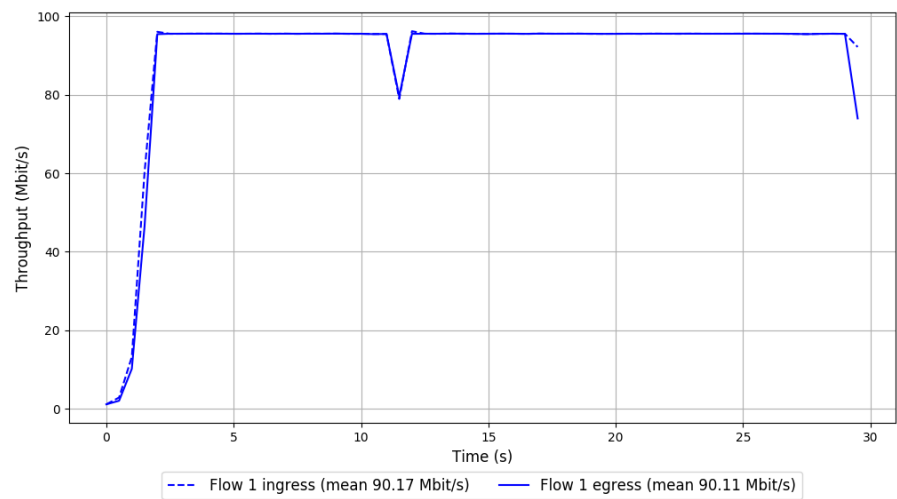
-- Flow 1:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 95.389 ms

Loss rate: 0.67%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-10 11:22:34

End at: 2018-04-10 11:23:04

Local clock offset: -5.551 ms

Remote clock offset: 4.267 ms

Below is generated by plot.py at 2018-04-10 16:42:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.42 Mbit/s

95th percentile per-packet one-way delay: 87.466 ms

Loss rate: 13.22%

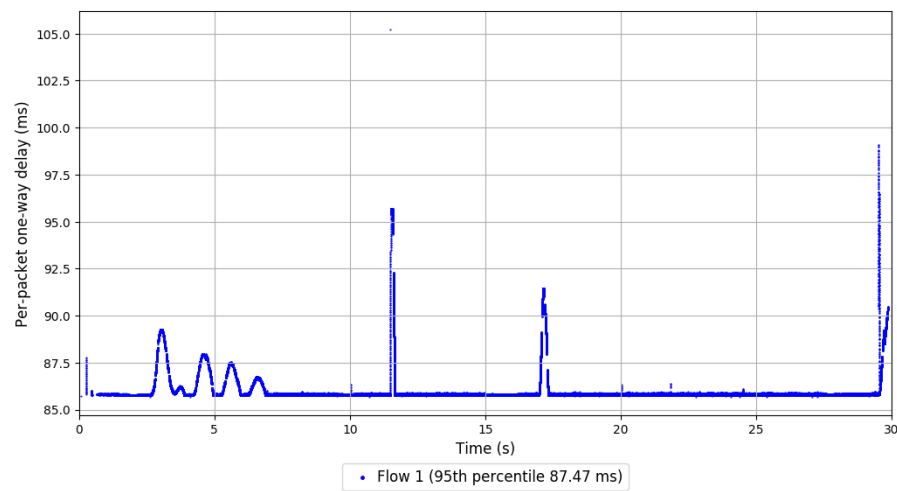
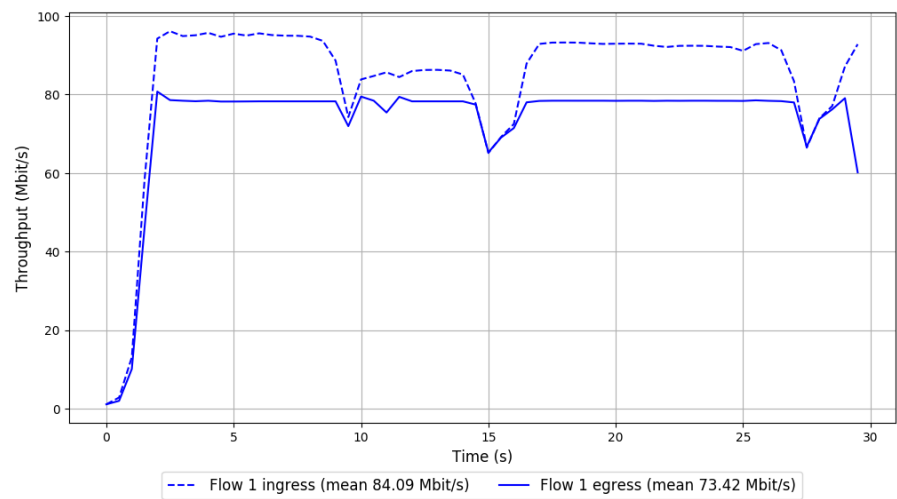
-- Flow 1:

Average throughput: 73.42 Mbit/s

95th percentile per-packet one-way delay: 87.466 ms

Loss rate: 13.22%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-10 11:44:42

End at: 2018-04-10 11:45:12

Local clock offset: -5.871 ms

Remote clock offset: 0.878 ms

Below is generated by plot.py at 2018-04-10 16:42:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 95.553 ms

Loss rate: 0.64%

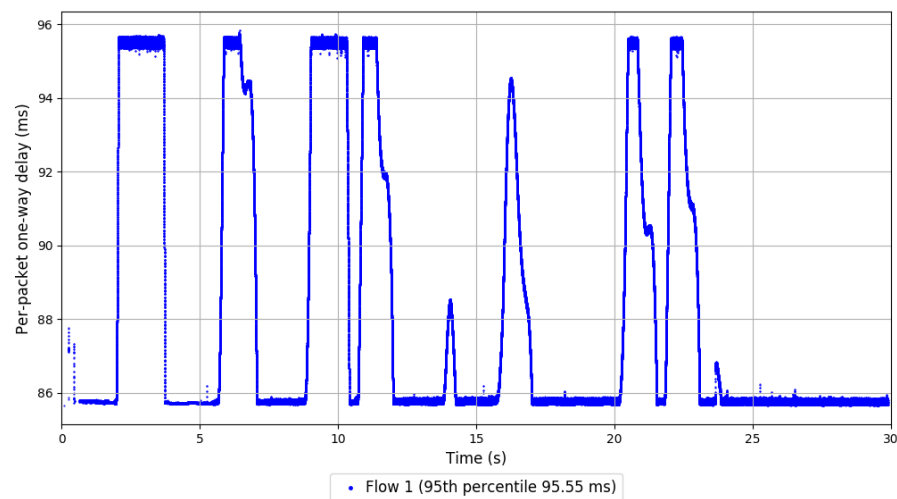
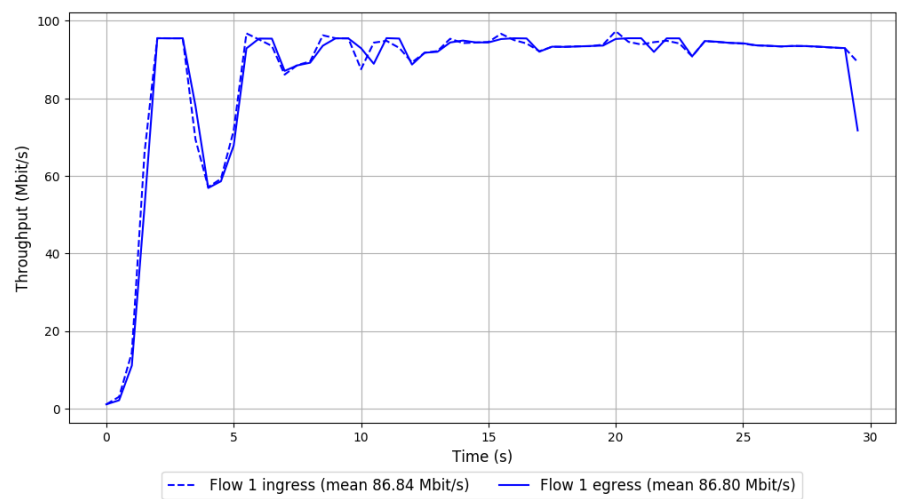
-- Flow 1:

Average throughput: 86.80 Mbit/s

95th percentile per-packet one-way delay: 95.553 ms

Loss rate: 0.64%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-10 12:07:00

End at: 2018-04-10 12:07:30

Local clock offset: -5.183 ms

Remote clock offset: 6.265 ms

Below is generated by plot.py at 2018-04-10 16:44:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 83.496 ms

Loss rate: 5.41%

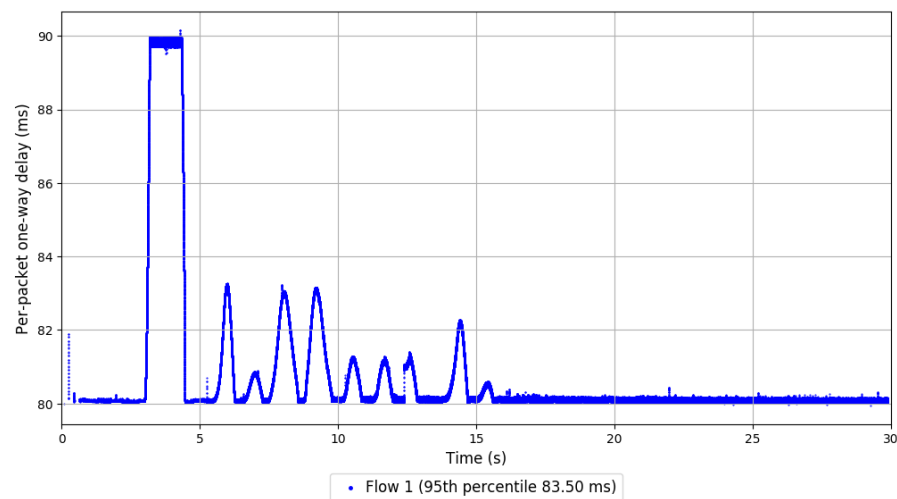
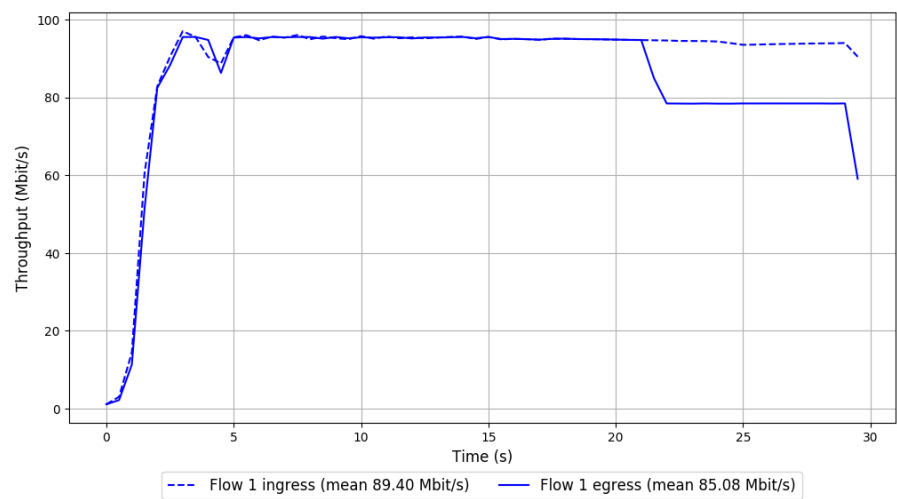
-- Flow 1:

Average throughput: 85.08 Mbit/s

95th percentile per-packet one-way delay: 83.496 ms

Loss rate: 5.41%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-10 12:29:22

End at: 2018-04-10 12:29:52

Local clock offset: -5.24 ms

Remote clock offset: 3.951 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 91.530 ms

Loss rate: 0.62%

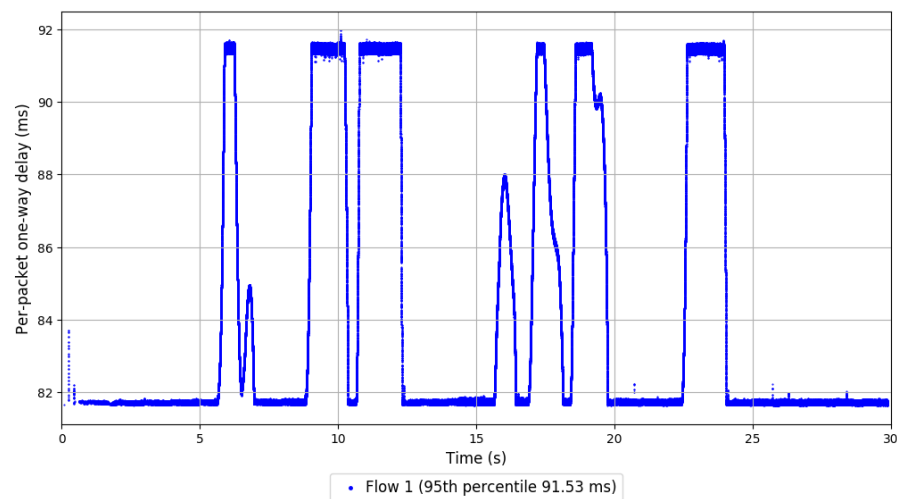
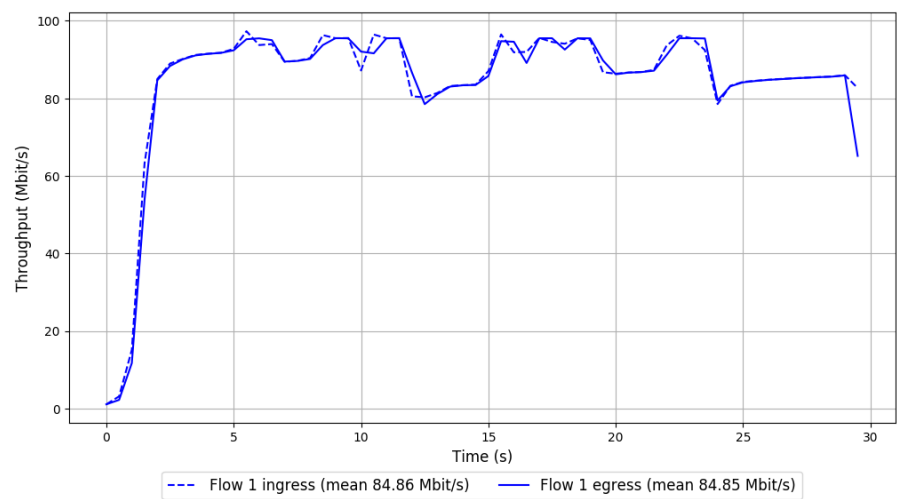
-- Flow 1:

Average throughput: 84.85 Mbit/s

95th percentile per-packet one-way delay: 91.530 ms

Loss rate: 0.62%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-10 09:03:16

End at: 2018-04-10 09:03:46

Local clock offset: -5.806 ms

Remote clock offset: 2.526 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 92.590 ms

Loss rate: 0.70%

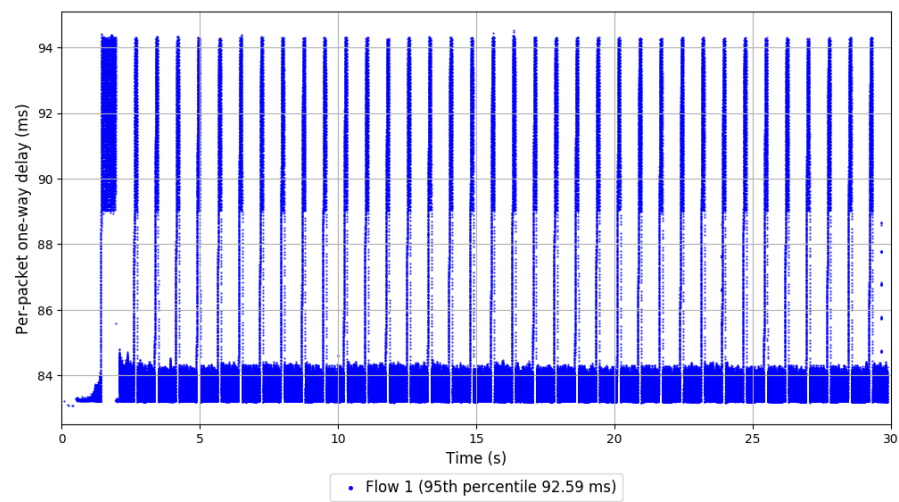
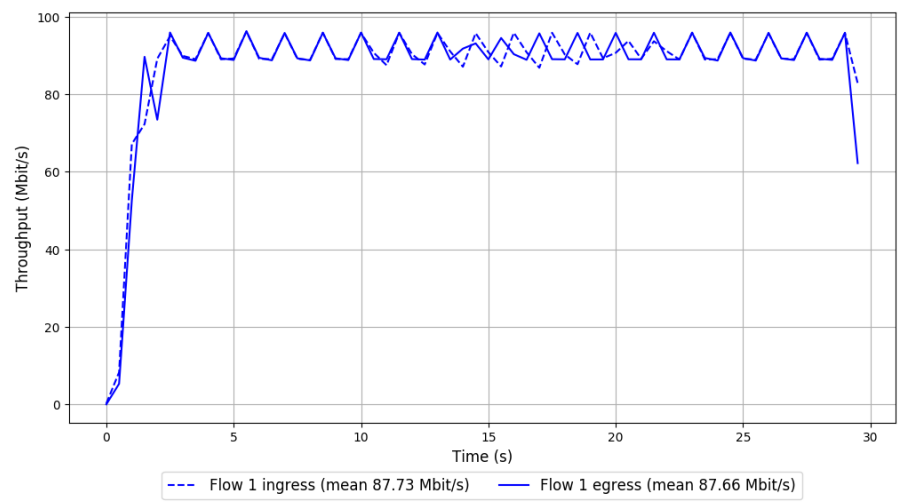
-- Flow 1:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 92.590 ms

Loss rate: 0.70%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-10 09:25:23

End at: 2018-04-10 09:25:53

Local clock offset: -5.625 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 92.661 ms

Loss rate: 0.66%

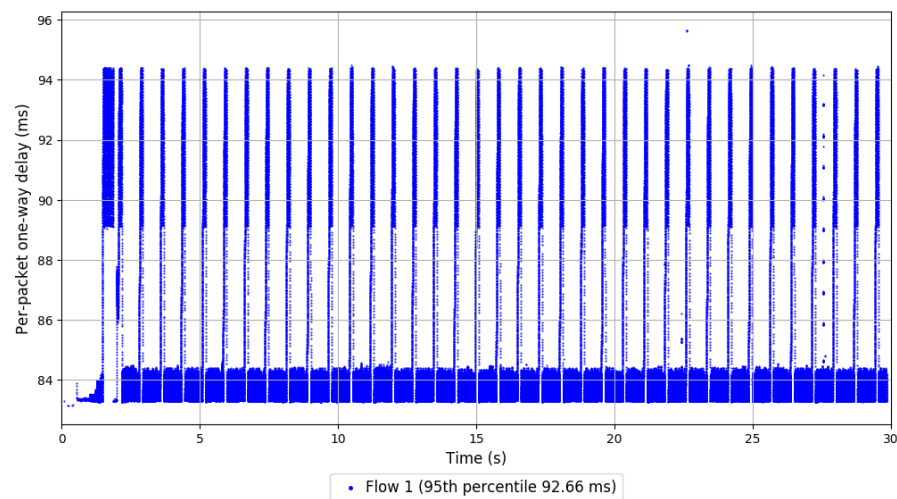
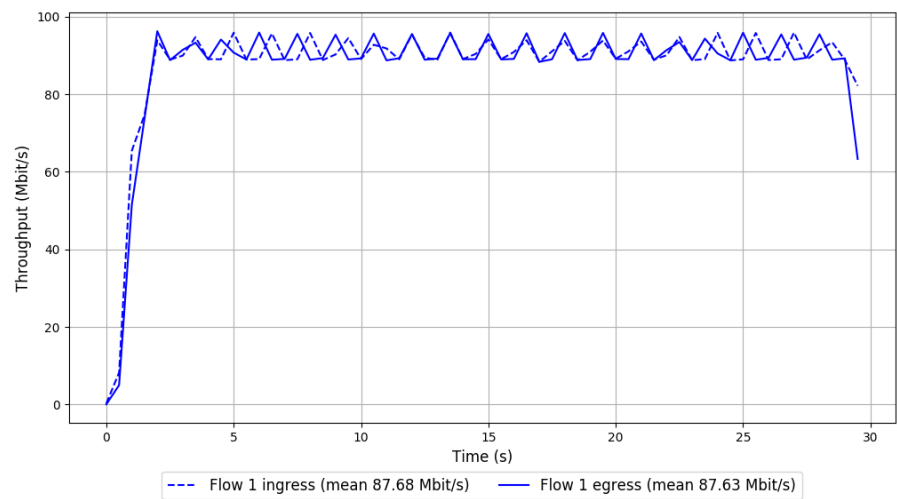
-- Flow 1:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 92.661 ms

Loss rate: 0.66%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-10 09:47:35

End at: 2018-04-10 09:48:05

Local clock offset: -5.626 ms

Remote clock offset: 1.539 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 95.378 ms

Loss rate: 0.66%

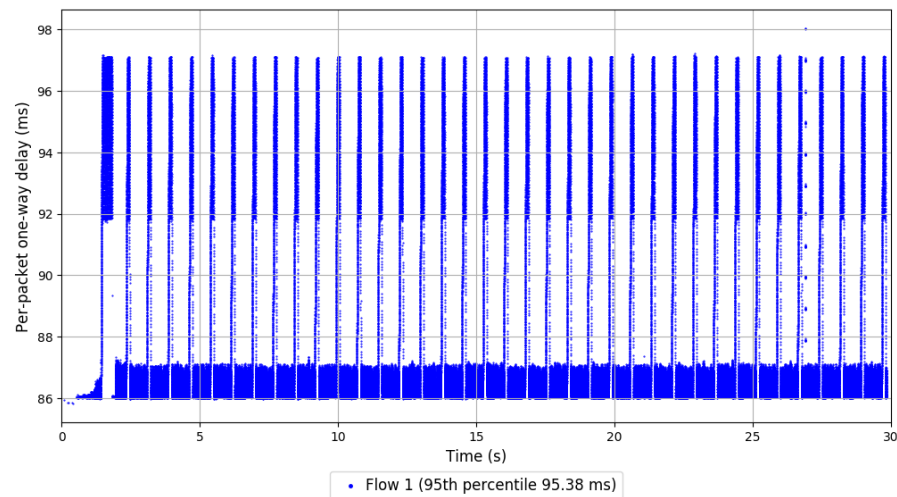
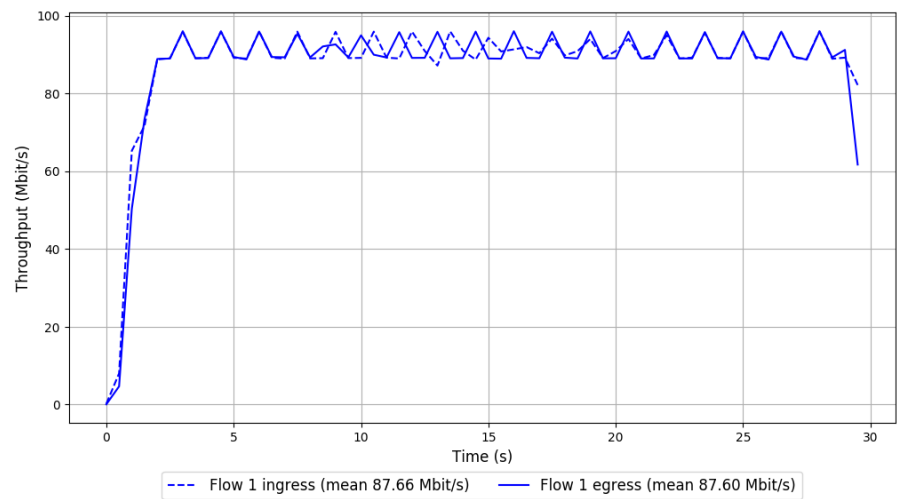
-- Flow 1:

Average throughput: 87.60 Mbit/s

95th percentile per-packet one-way delay: 95.378 ms

Loss rate: 0.66%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-10 10:09:45

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

Local clock offset: -5.577 ms

Remote clock offset: 8.361 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 86.874 ms

Loss rate: 0.68%

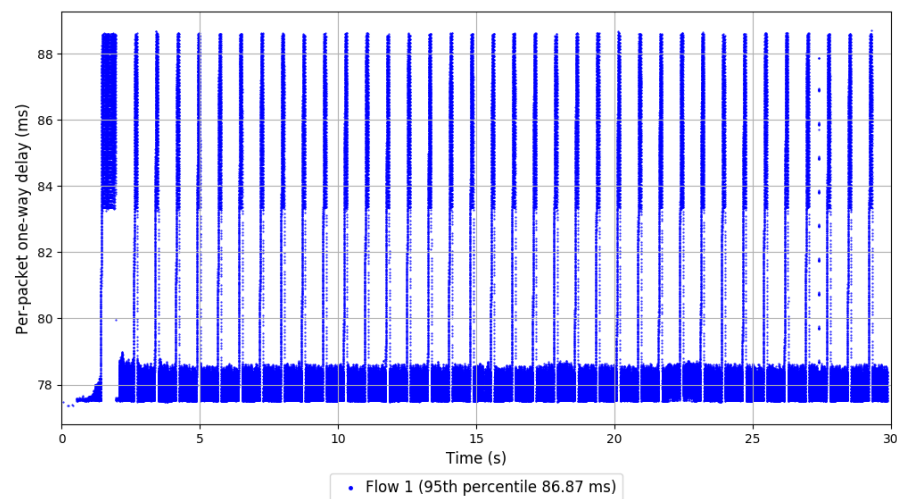
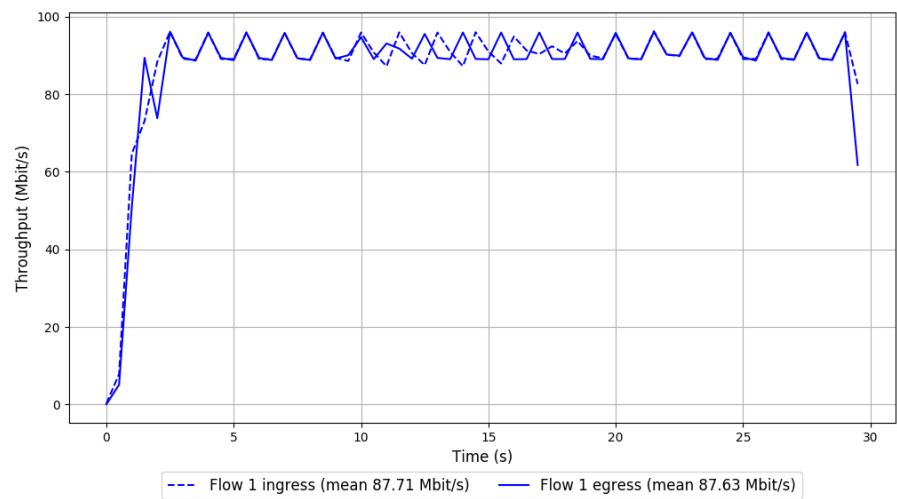
-- Flow 1:

Average throughput: 87.63 Mbit/s

95th percentile per-packet one-way delay: 86.874 ms

Loss rate: 0.68%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-10 10:31:57

End at: 2018-04-10 10:32:27

Local clock offset: -5.385 ms

Remote clock offset: 9.514 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 88.437 ms

Loss rate: 10.79%

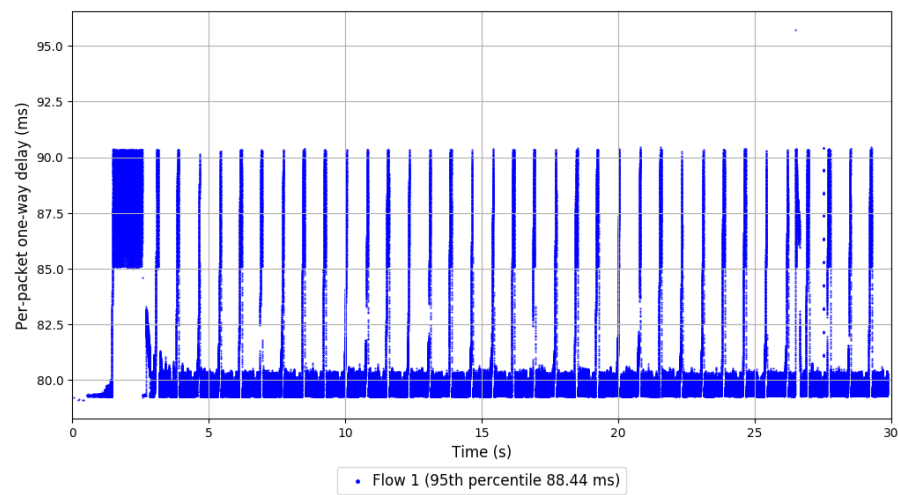
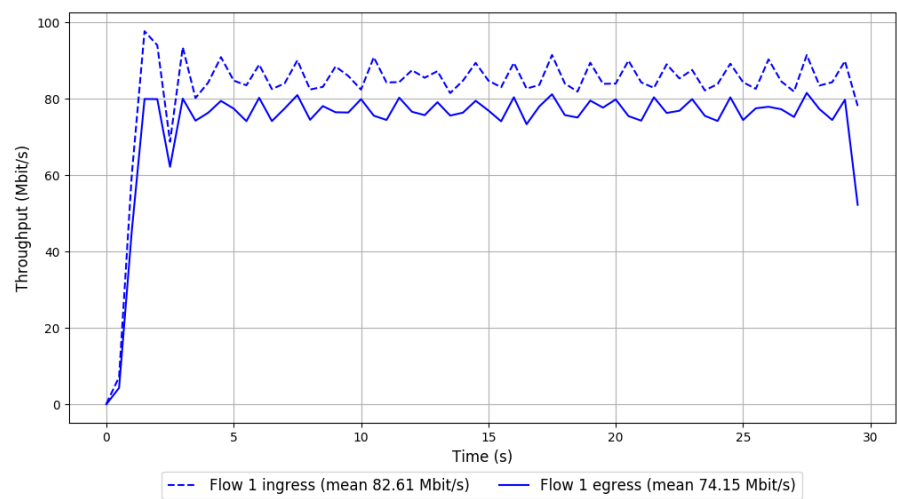
-- Flow 1:

Average throughput: 74.15 Mbit/s

95th percentile per-packet one-way delay: 88.437 ms

Loss rate: 10.79%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-10 10:54:09

End at: 2018-04-10 10:54:39

Local clock offset: -6.215 ms

Remote clock offset: 9.534 ms

Below is generated by plot.py at 2018-04-10 16:44:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 0.66%

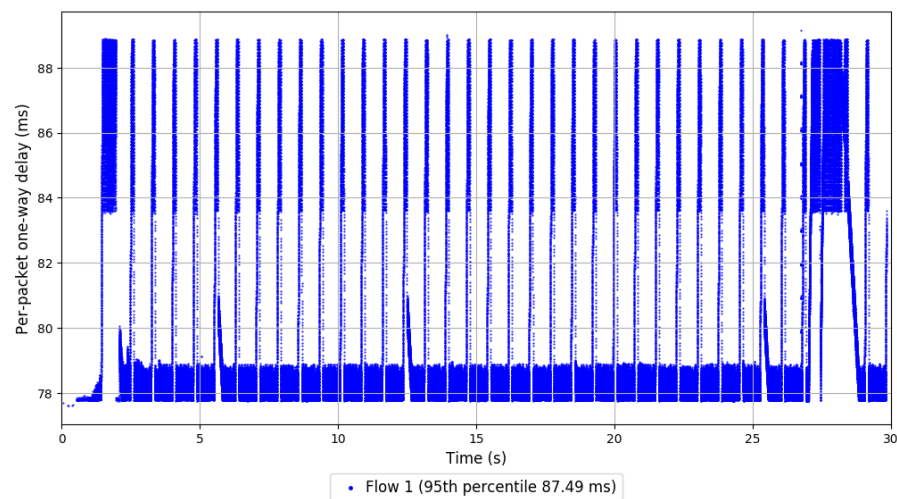
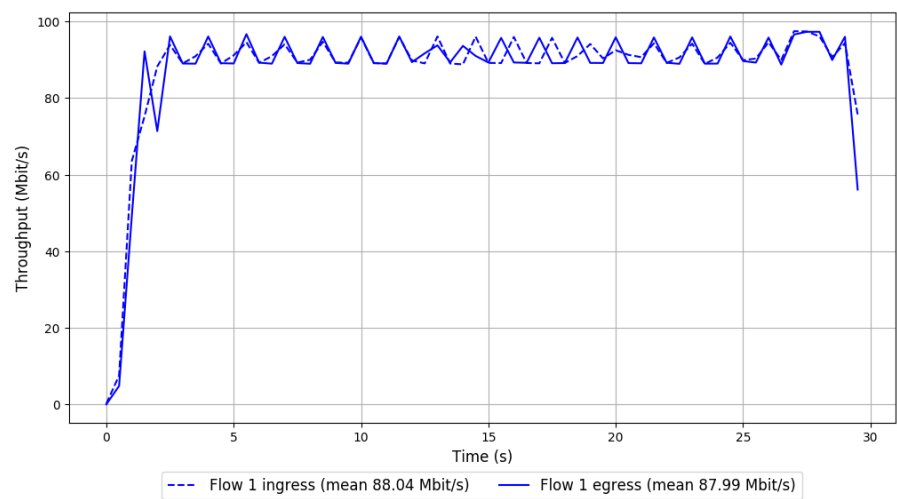
-- Flow 1:

Average throughput: 87.99 Mbit/s

95th percentile per-packet one-way delay: 87.486 ms

Loss rate: 0.66%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-10 11:16:29

End at: 2018-04-10 11:16:59

Local clock offset: -6.278 ms

Remote clock offset: 9.817 ms

Below is generated by plot.py at 2018-04-10 16:45:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 86.938 ms

Loss rate: 0.53%

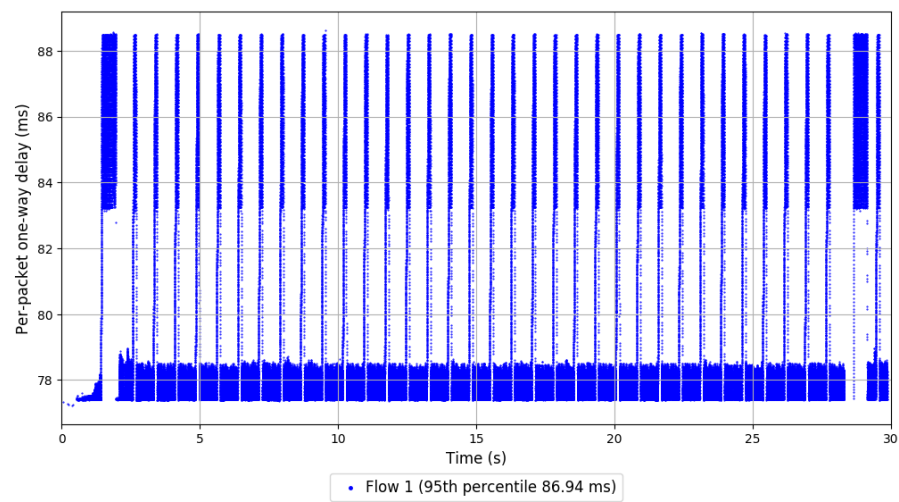
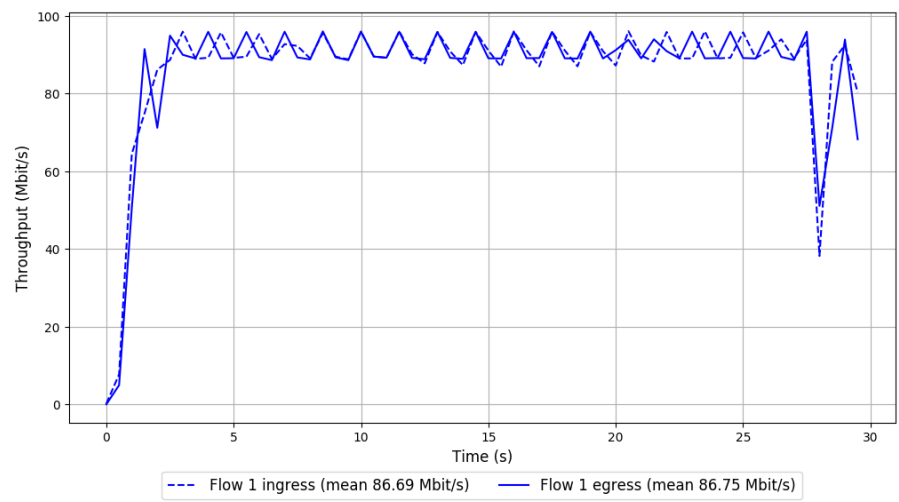
-- Flow 1:

Average throughput: 86.75 Mbit/s

95th percentile per-packet one-way delay: 86.938 ms

Loss rate: 0.53%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-10 11:38:36

End at: 2018-04-10 11:39:06

Local clock offset: -5.919 ms

Remote clock offset: 1.553 ms

Below is generated by plot.py at 2018-04-10 16:45:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 93.037 ms

Loss rate: 0.65%

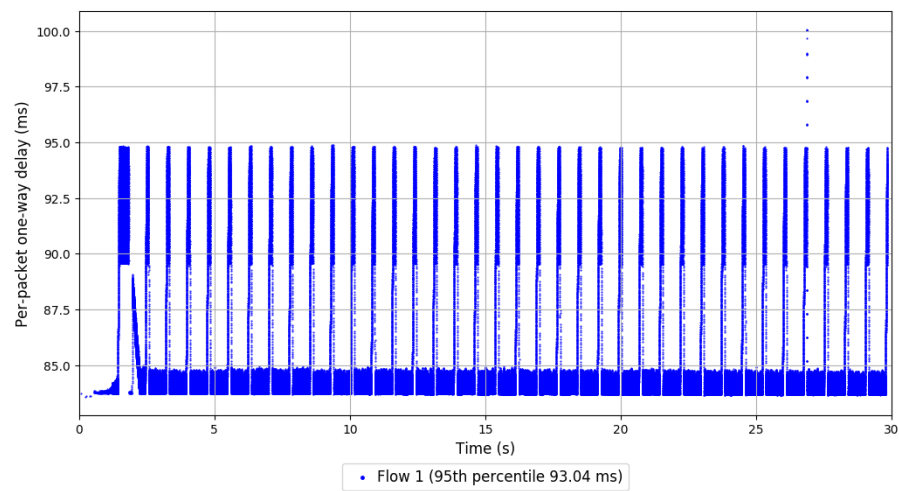
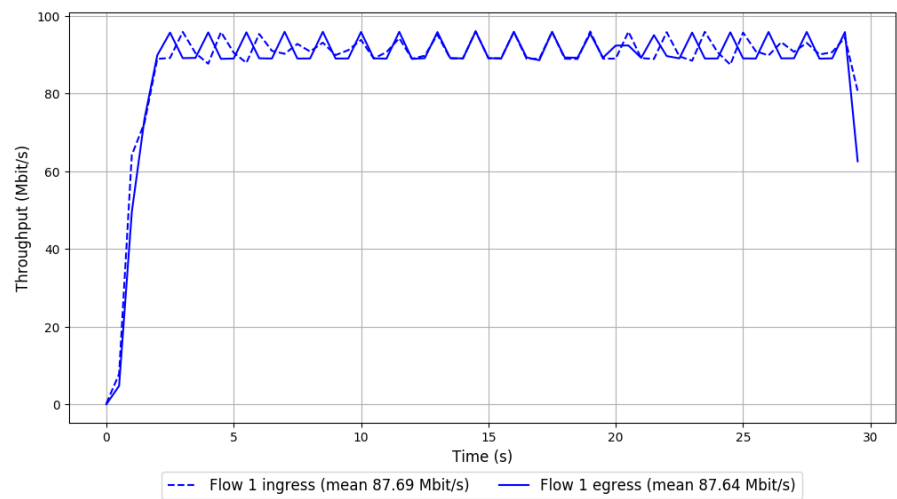
-- Flow 1:

Average throughput: 87.64 Mbit/s

95th percentile per-packet one-way delay: 93.037 ms

Loss rate: 0.65%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-10 12:00:55

End at: 2018-04-10 12:01:25

Local clock offset: -5.977 ms

Remote clock offset: 0.91 ms

Below is generated by plot.py at 2018-04-10 16:45:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 92.672 ms

Loss rate: 0.53%

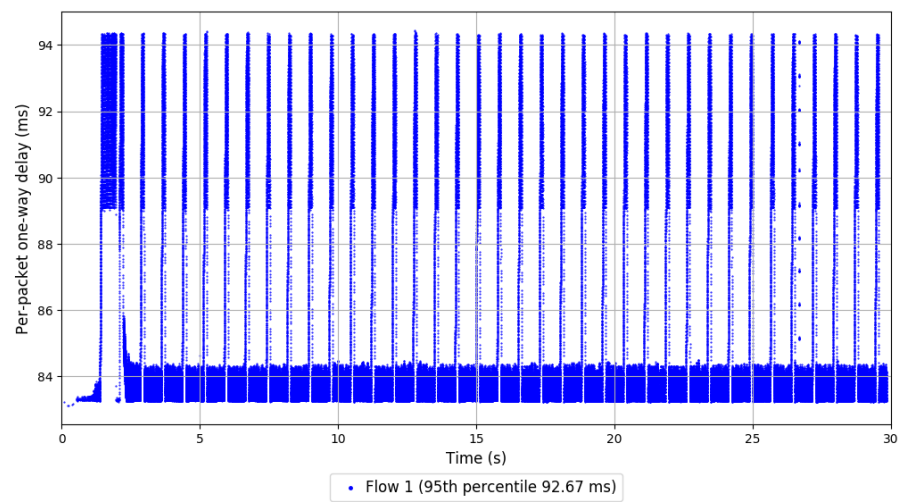
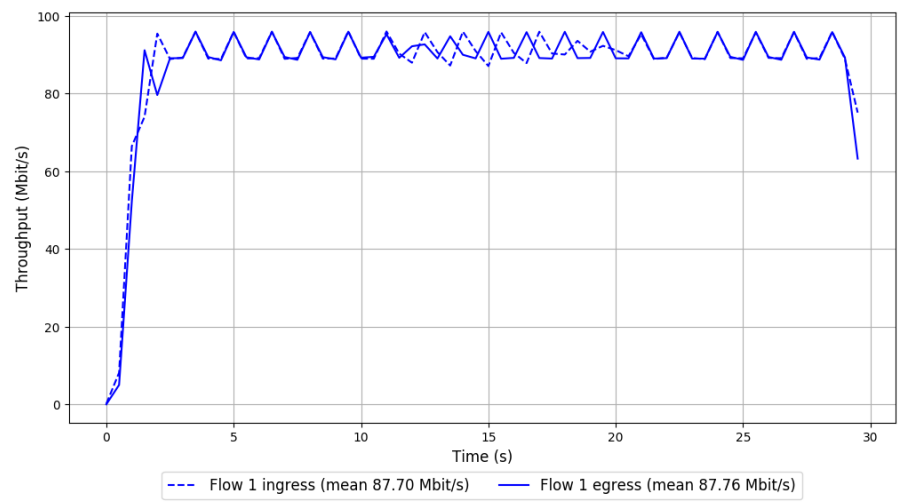
-- Flow 1:

Average throughput: 87.76 Mbit/s

95th percentile per-packet one-way delay: 92.672 ms

Loss rate: 0.53%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-10 12:23:17

End at: 2018-04-10 12:23:48

Local clock offset: -5.995 ms

Remote clock offset: 4.104 ms

Below is generated by plot.py at 2018-04-10 16:45:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 88.998 ms

Loss rate: 0.65%

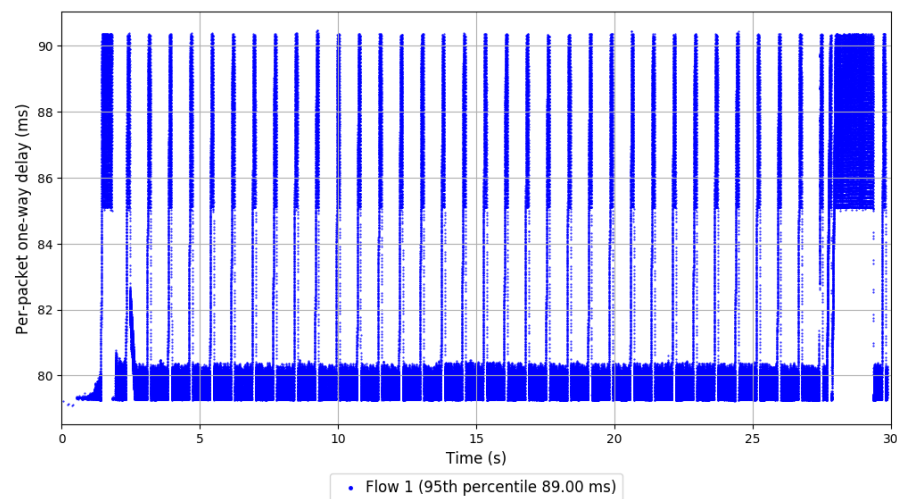
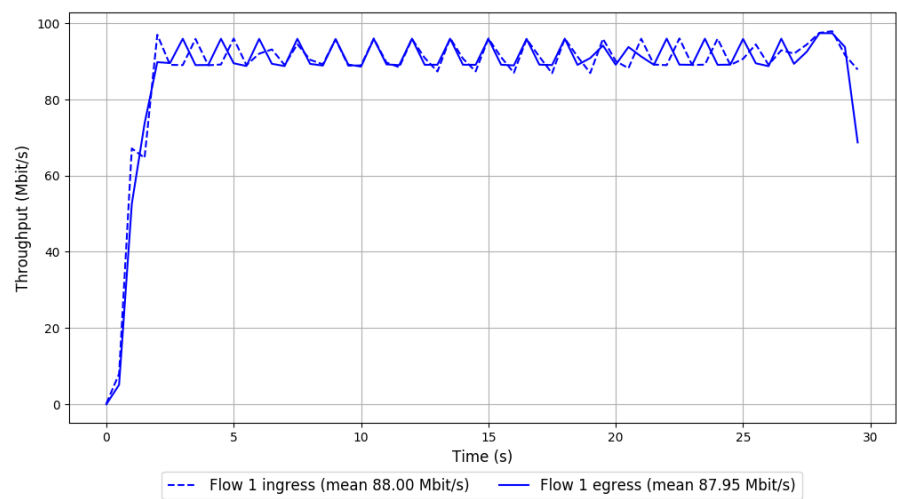
-- Flow 1:

Average throughput: 87.95 Mbit/s

95th percentile per-packet one-way delay: 88.998 ms

Loss rate: 0.65%

Run 10: Report of FillP — Data Link

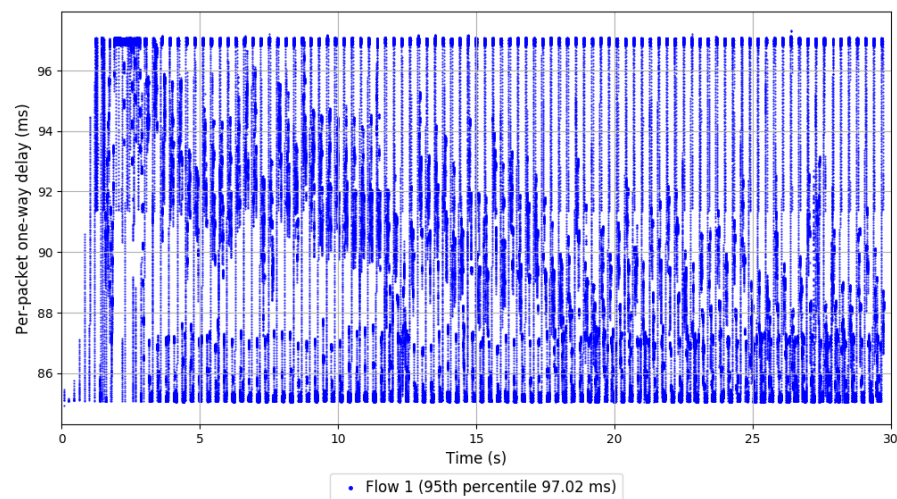
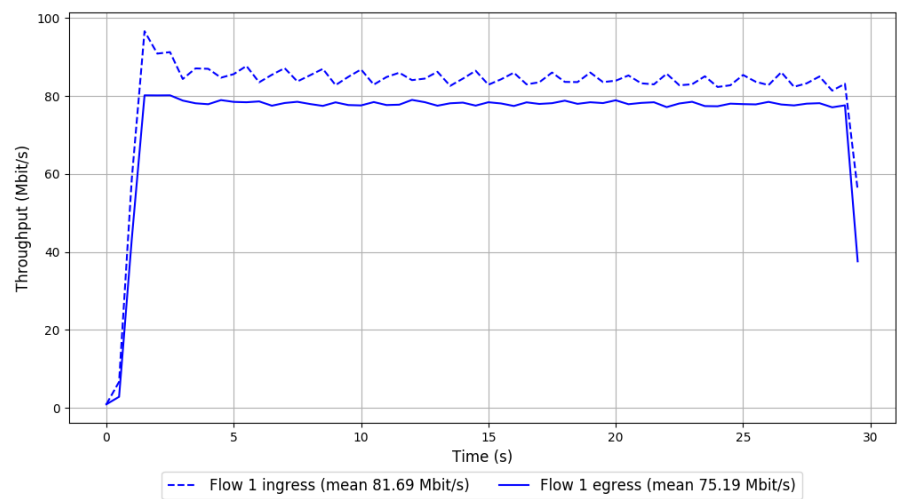


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-04-10 09:05:41
End at: 2018-04-10 09:06:11
Local clock offset: -5.706 ms
Remote clock offset: 2.541 ms

# Below is generated by plot.py at 2018-04-10 16:45:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 97.017 ms
Loss rate: 8.52%
-- Flow 1:
Average throughput: 75.19 Mbit/s
95th percentile per-packet one-way delay: 97.017 ms
Loss rate: 8.52%
```

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-10 09:27:47

End at: 2018-04-10 09:28:17

Local clock offset: -5.706 ms

Remote clock offset: 7.937 ms

Below is generated by plot.py at 2018-04-10 16:45:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 89.570 ms

Loss rate: 0.67%

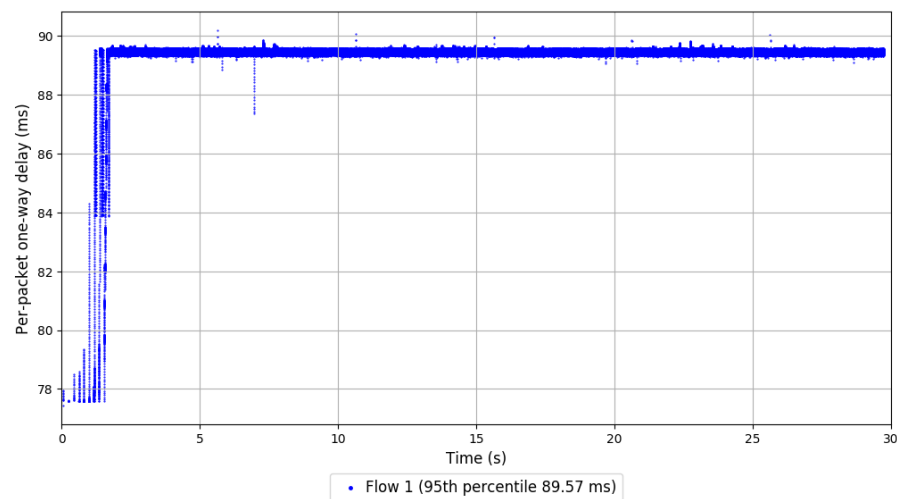
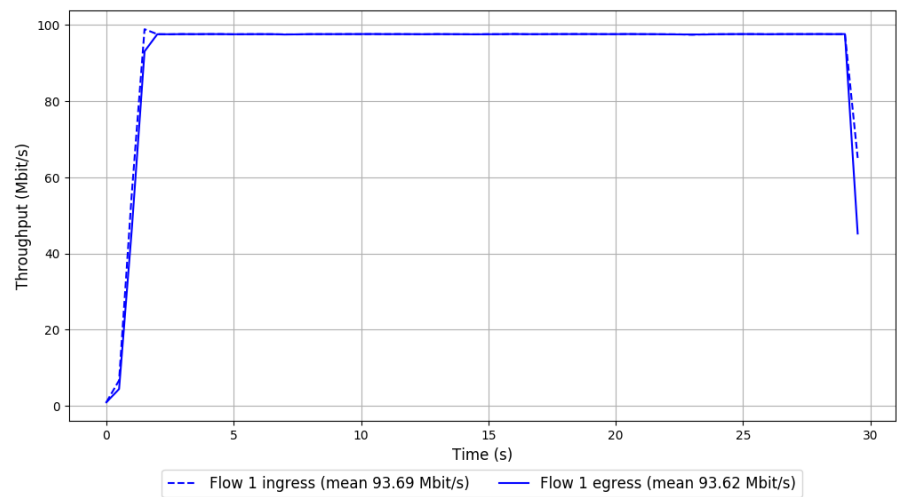
-- Flow 1:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 89.570 ms

Loss rate: 0.67%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-10 09:49:59

End at: 2018-04-10 09:50:29

Local clock offset: -5.624 ms

Remote clock offset: 1.596 ms

Below is generated by plot.py at 2018-04-10 16:45:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 91.025 ms

Loss rate: 0.65%

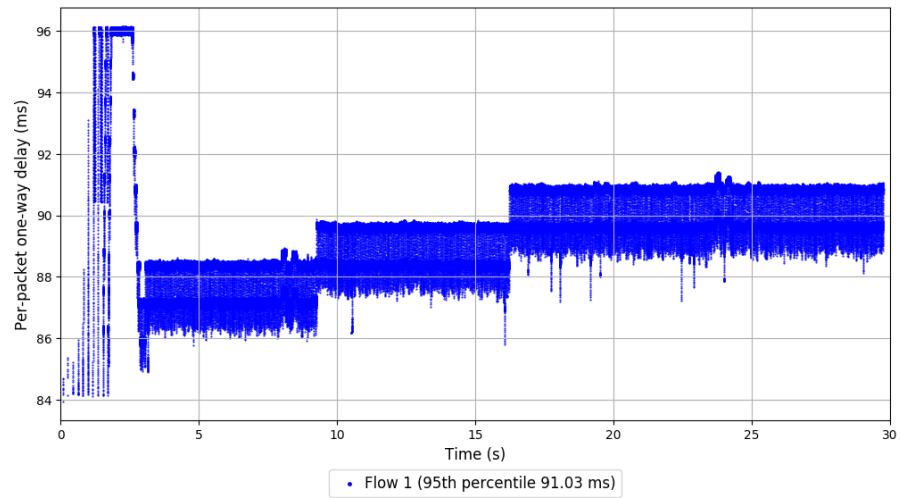
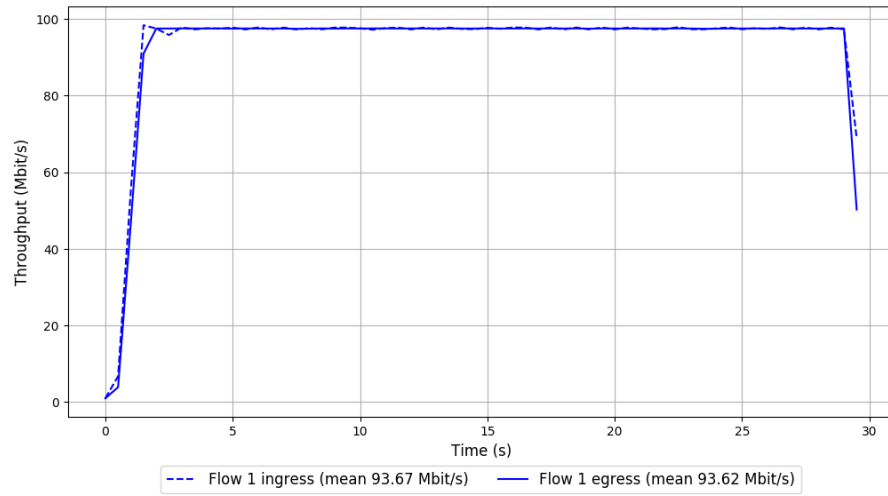
-- Flow 1:

Average throughput: 93.62 Mbit/s

95th percentile per-packet one-way delay: 91.025 ms

Loss rate: 0.65%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-10 10:12:10

End at: 2018-04-10 10:12:40

Local clock offset: -5.471 ms

Remote clock offset: 8.369 ms

Below is generated by plot.py at 2018-04-10 16:45:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 91.000 ms

Loss rate: 9.46%

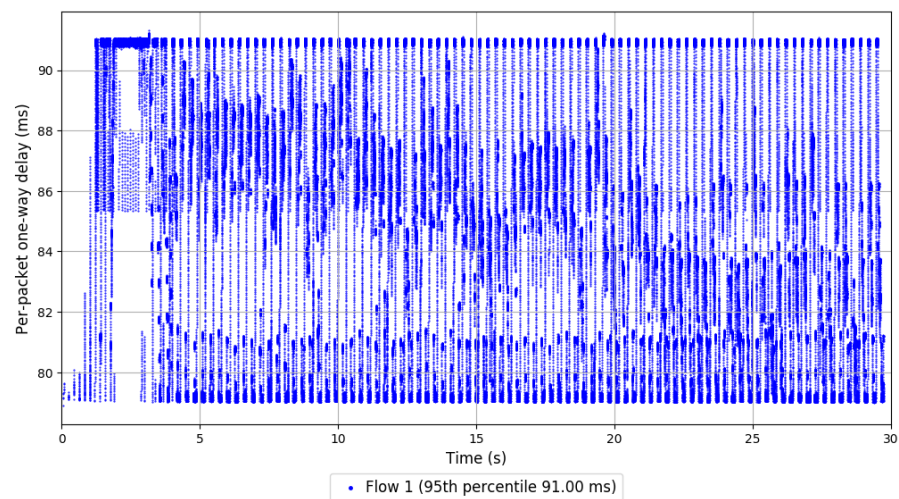
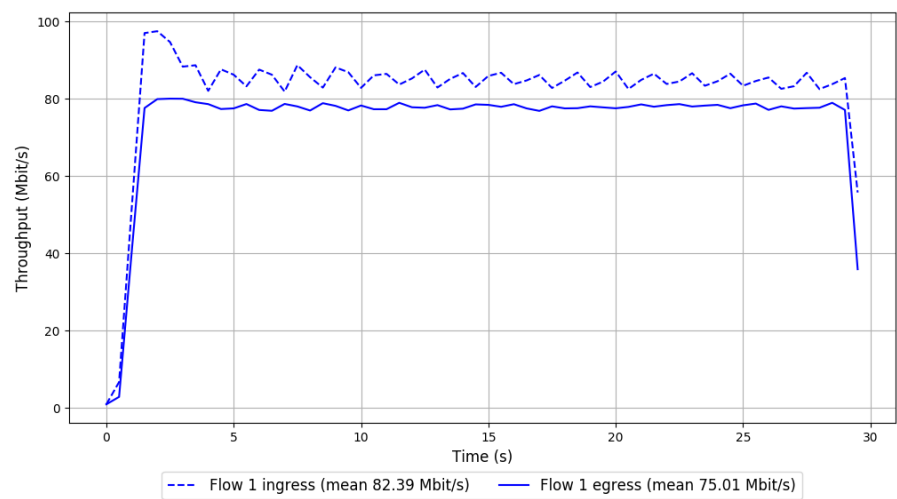
-- Flow 1:

Average throughput: 75.01 Mbit/s

95th percentile per-packet one-way delay: 91.000 ms

Loss rate: 9.46%

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



Run 5: Statistics of Indigo-1-32

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

End at: 2018-04-10 10:34:52

Local clock offset: -6.149 ms

Remote clock offset: 8.855 ms

Below is generated by plot.py at 2018-04-10 16:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 90.828 ms

Loss rate: 0.66%

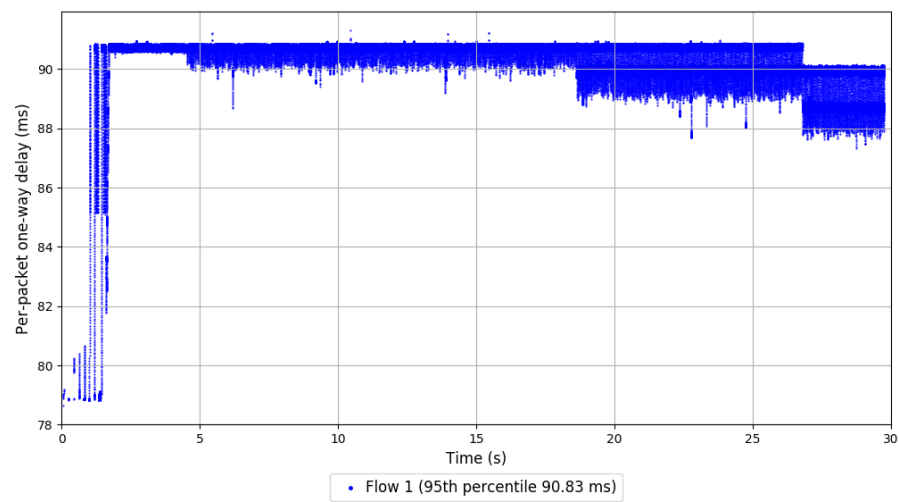
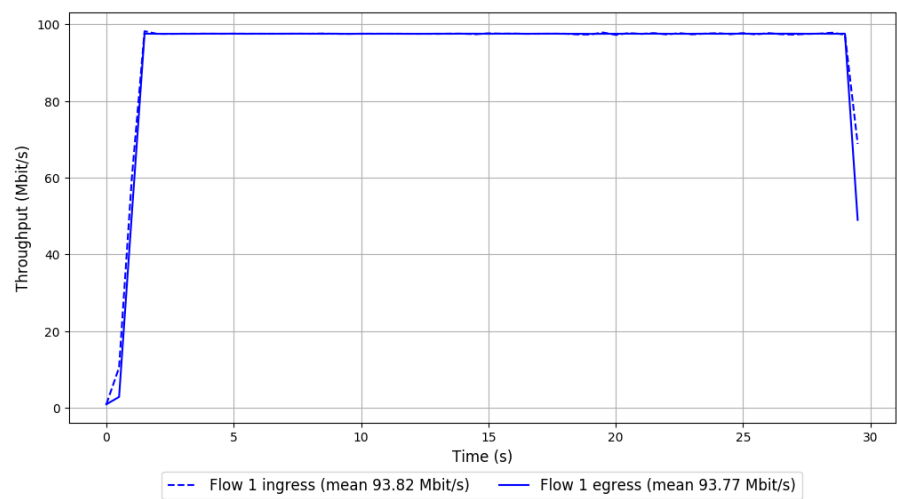
-- Flow 1:

Average throughput: 93.77 Mbit/s

95th percentile per-packet one-way delay: 90.828 ms

Loss rate: 0.66%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-10 10:56:34

End at: 2018-04-10 10:57:04

Local clock offset: -5.38 ms

Remote clock offset: 10.426 ms

Below is generated by plot.py at 2018-04-10 16:46:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 89.355 ms

Loss rate: 0.66%

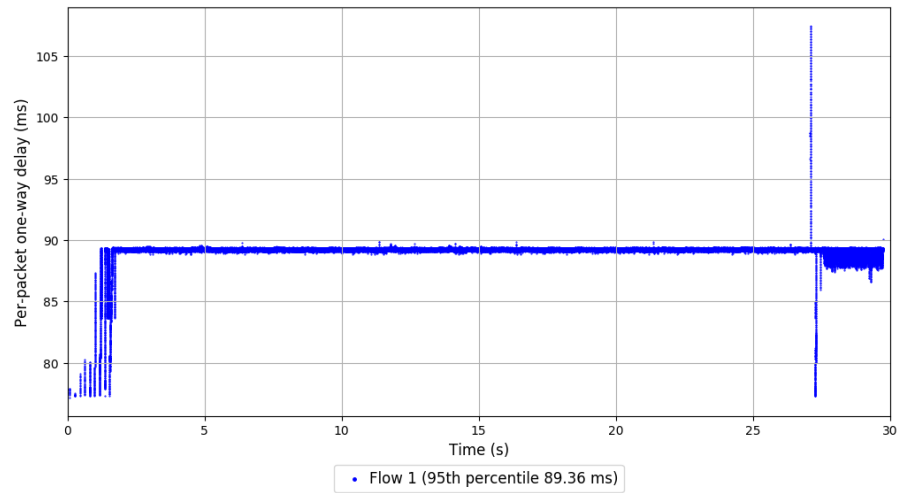
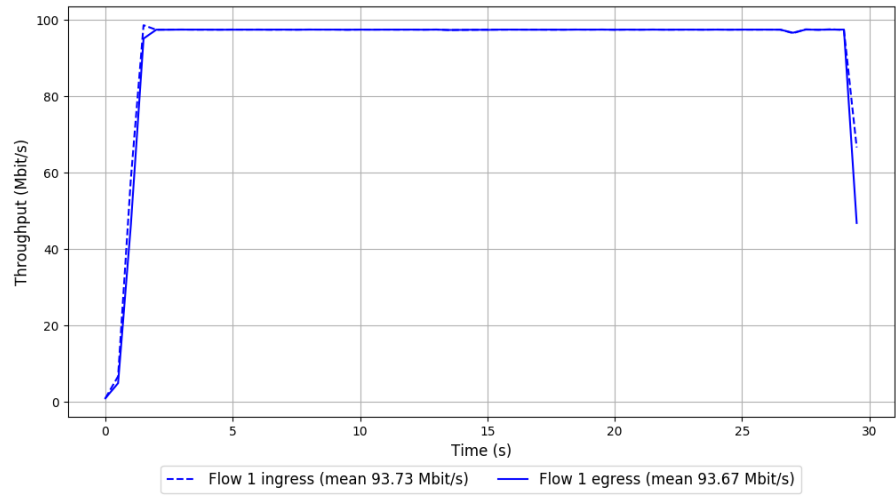
-- Flow 1:

Average throughput: 93.67 Mbit/s

95th percentile per-packet one-way delay: 89.355 ms

Loss rate: 0.66%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-10 11:18:53

End at: 2018-04-10 11:19:23

Local clock offset: -5.448 ms

Remote clock offset: 9.805 ms

Below is generated by plot.py at 2018-04-10 16:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 90.524 ms

Loss rate: 0.67%

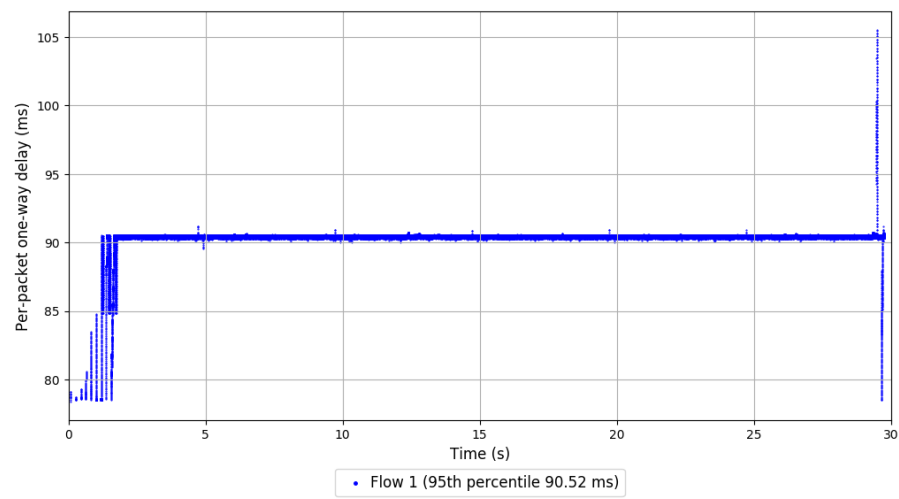
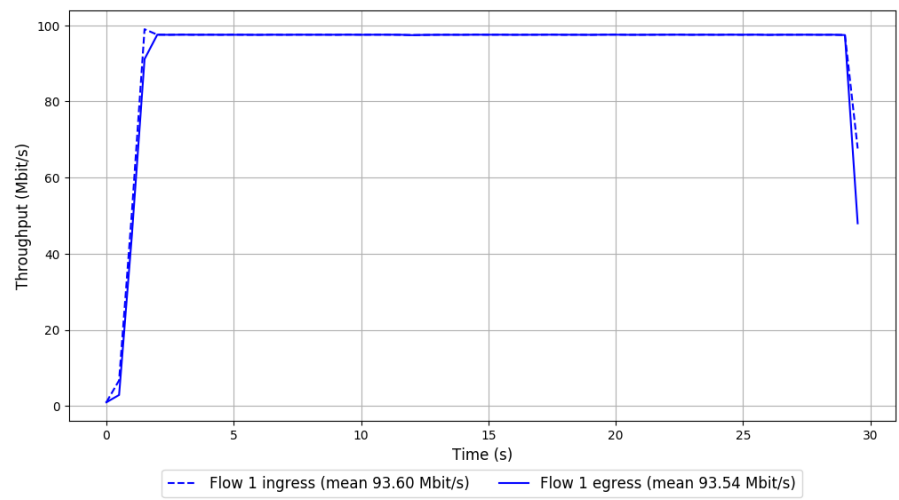
-- Flow 1:

Average throughput: 93.54 Mbit/s

95th percentile per-packet one-way delay: 90.524 ms

Loss rate: 0.67%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-10 11:41:01

End at: 2018-04-10 11:41:31

Local clock offset: -5.098 ms

Remote clock offset: 2.109 ms

Below is generated by plot.py at 2018-04-10 16:46:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 93.406 ms

Loss rate: 0.64%

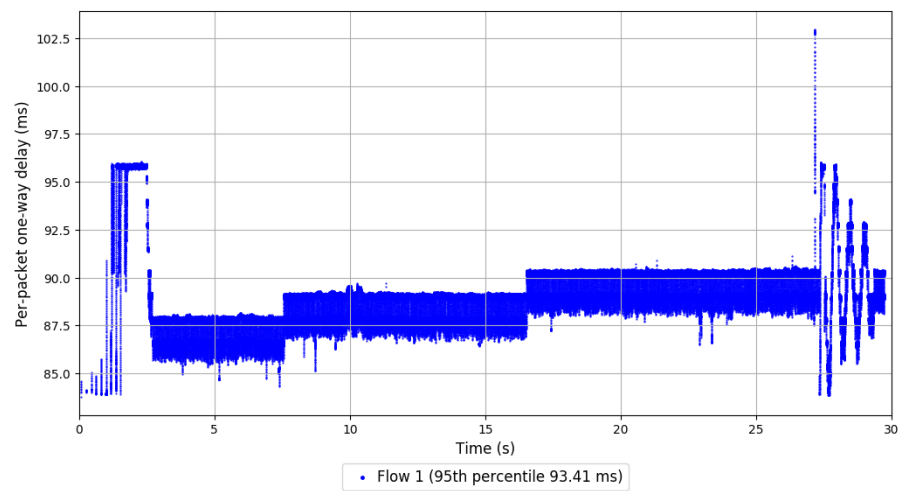
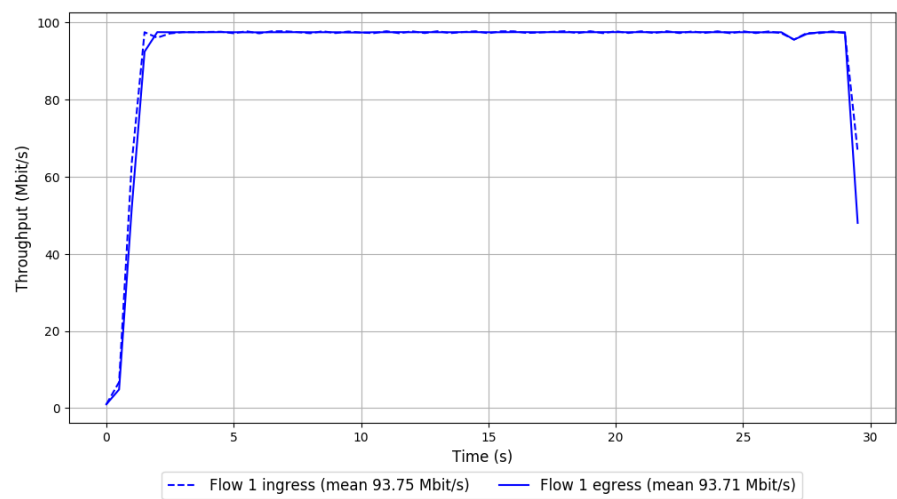
-- Flow 1:

Average throughput: 93.71 Mbit/s

95th percentile per-packet one-way delay: 93.406 ms

Loss rate: 0.64%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-10 12:03:20

End at: 2018-04-10 12:03:50

Local clock offset: -6.739 ms

Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-04-10 16:46:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 95.320 ms

Loss rate: 0.66%

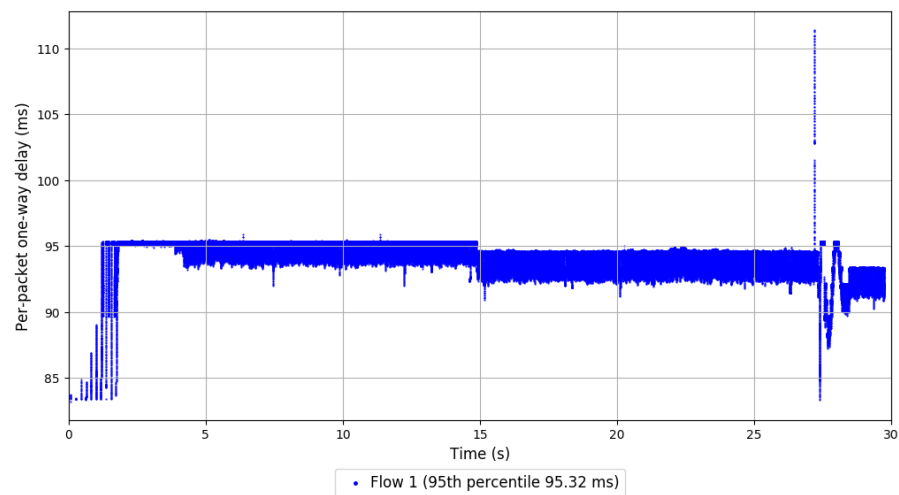
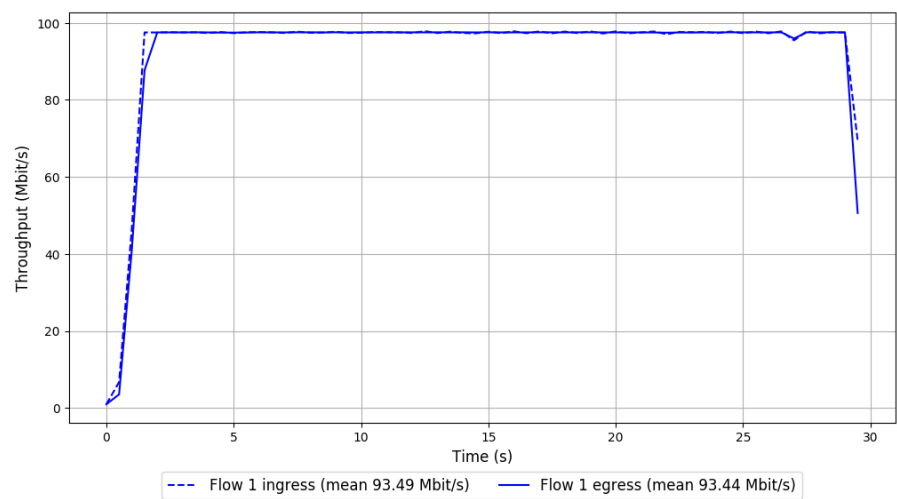
-- Flow 1:

Average throughput: 93.44 Mbit/s

95th percentile per-packet one-way delay: 95.320 ms

Loss rate: 0.66%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-10 12:25:42

End at: 2018-04-10 12:26:12

Local clock offset: -5.249 ms

Remote clock offset: 4.091 ms

Below is generated by plot.py at 2018-04-10 16:46:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 91.958 ms

Loss rate: 9.59%

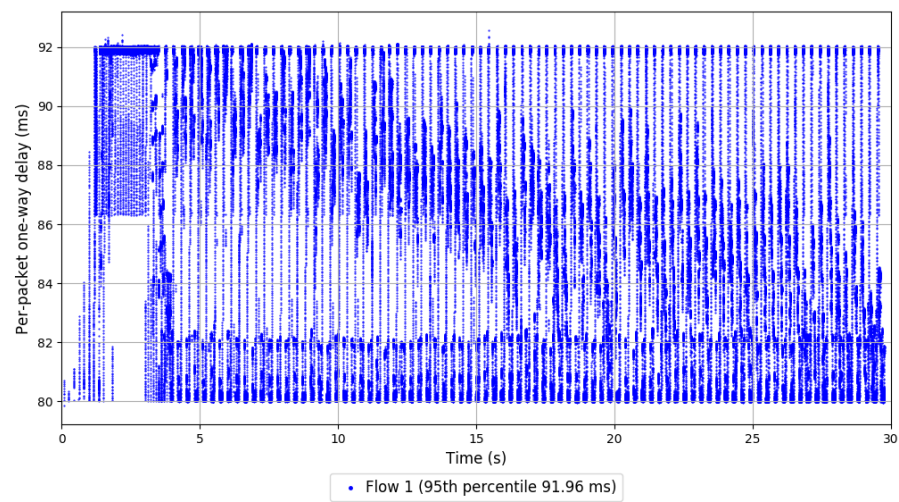
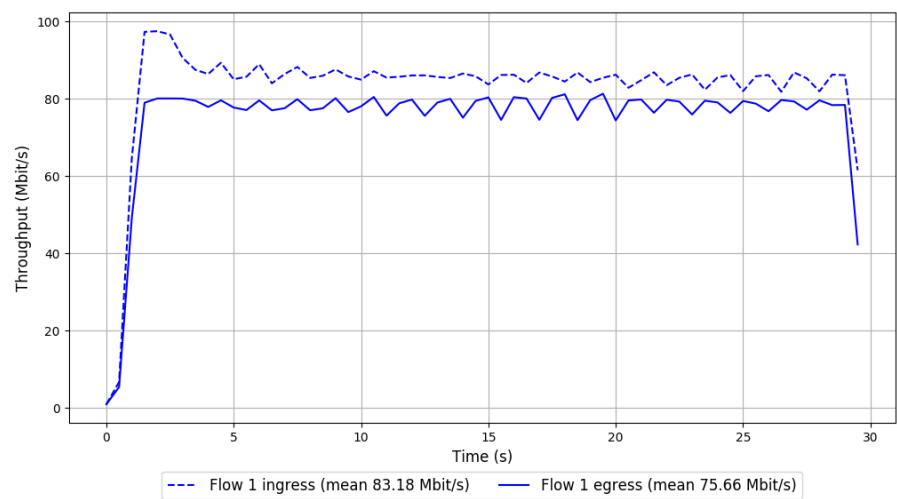
-- Flow 1:

Average throughput: 75.66 Mbit/s

95th percentile per-packet one-way delay: 91.958 ms

Loss rate: 9.59%

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



Run 1: Statistics of Vivace-latency

Start at: 2018-04-10 09:18:01

End at: 2018-04-10 09:18:31

Local clock offset: -6.453 ms

Remote clock offset: 6.36 ms

Below is generated by plot.py at 2018-04-10 16:47:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 89.822 ms

Loss rate: 0.74%

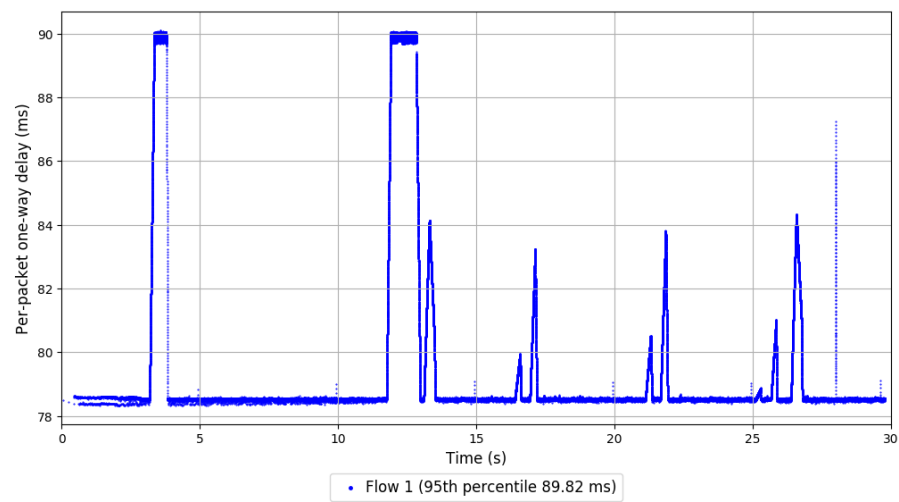
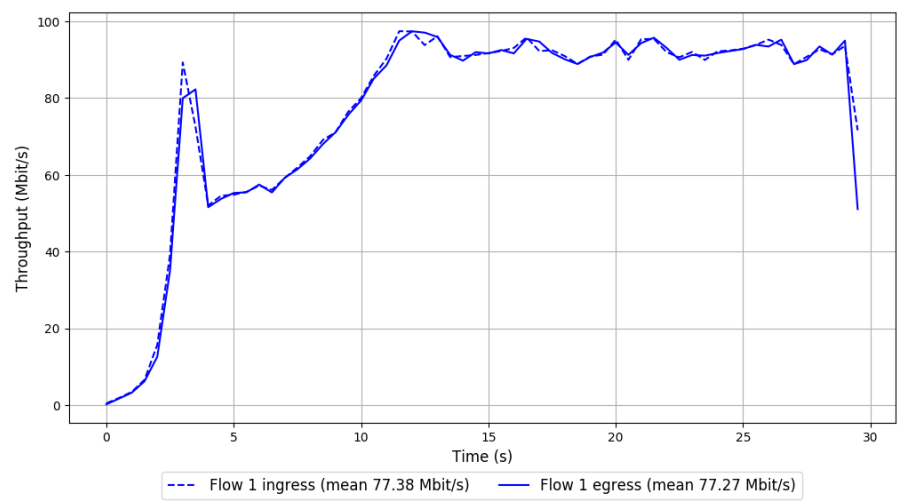
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 89.822 ms

Loss rate: 0.74%

Run 1: Report of Vivace-latency — Data Link



Run 2: Statistics of Vivace-latency

Start at: 2018-04-10 09:40:11

End at: 2018-04-10 09:40:41

Local clock offset: -5.584 ms

Remote clock offset: 7.017 ms

Below is generated by plot.py at 2018-04-10 16:47:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 91.666 ms

Loss rate: 0.74%

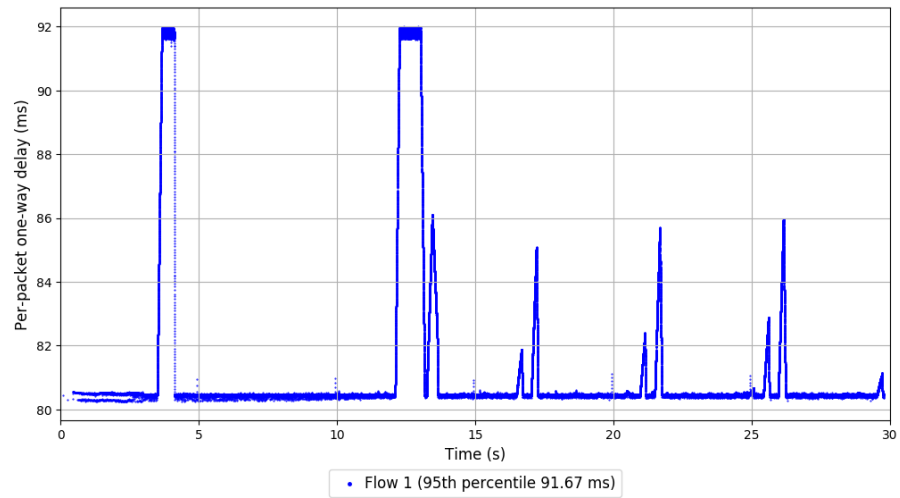
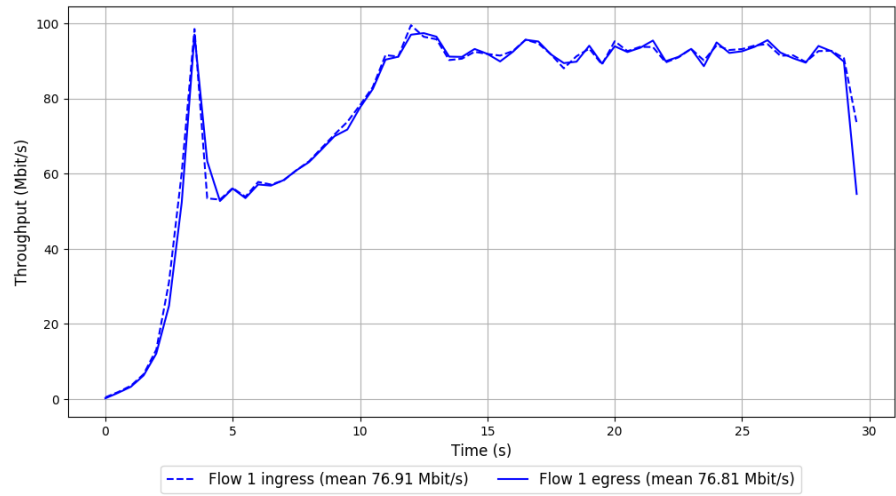
-- Flow 1:

Average throughput: 76.81 Mbit/s

95th percentile per-packet one-way delay: 91.666 ms

Loss rate: 0.74%

Run 2: Report of Vivace-latency — Data Link



Run 3: Statistics of Vivace-latency

Start at: 2018-04-10 10:02:23

End at: 2018-04-10 10:02:53

Local clock offset: -5.516 ms

Remote clock offset: 2.566 ms

Below is generated by plot.py at 2018-04-10 16:47:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 96.122 ms

Loss rate: 0.69%

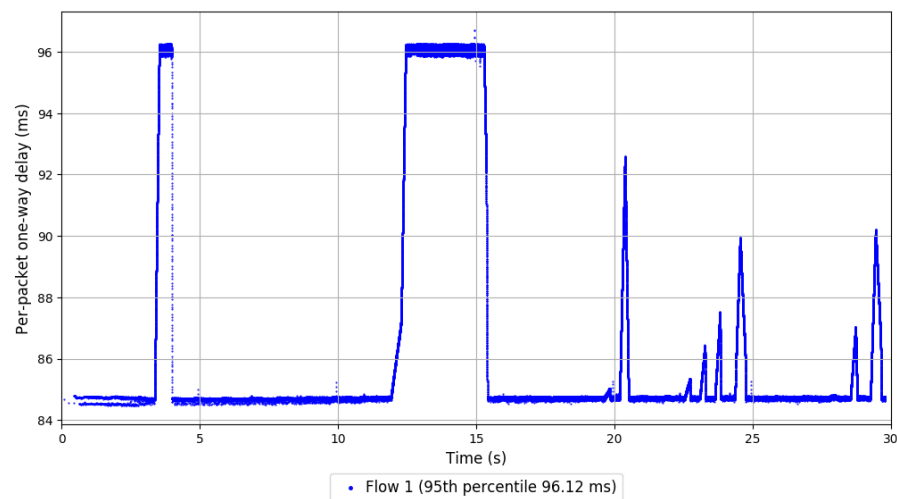
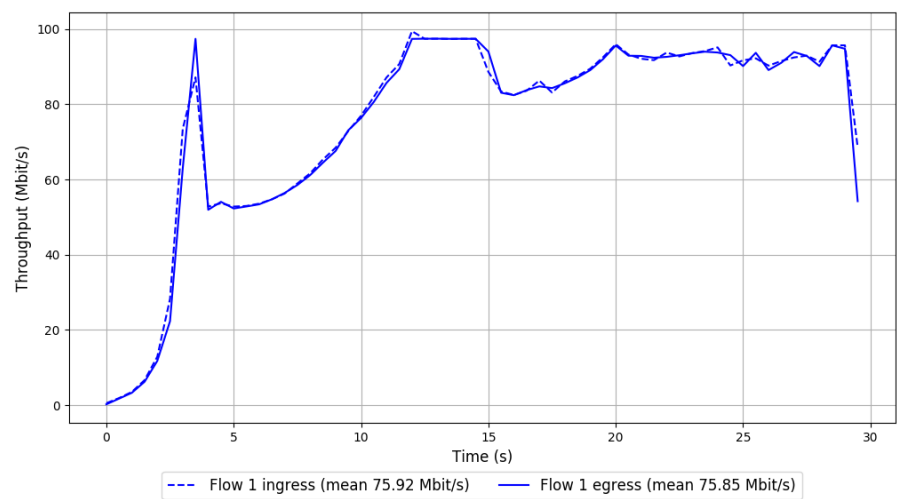
-- Flow 1:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 96.122 ms

Loss rate: 0.69%

Run 3: Report of Vivace-latency — Data Link

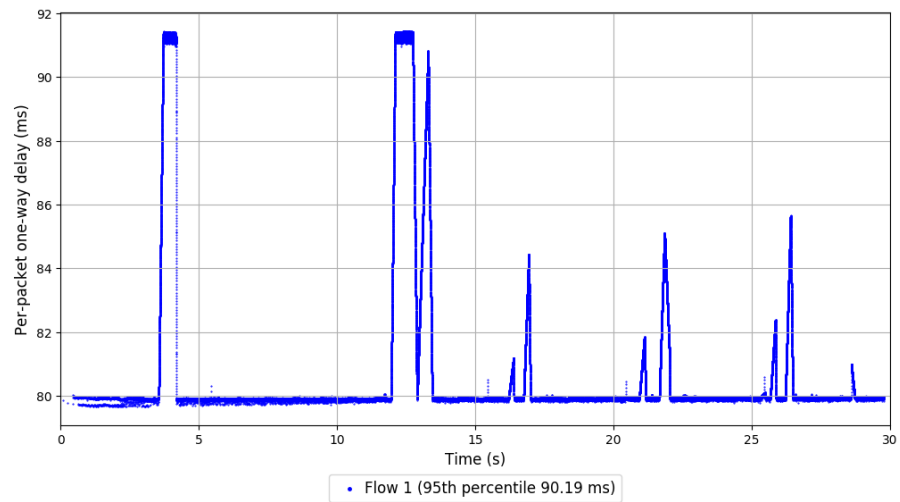
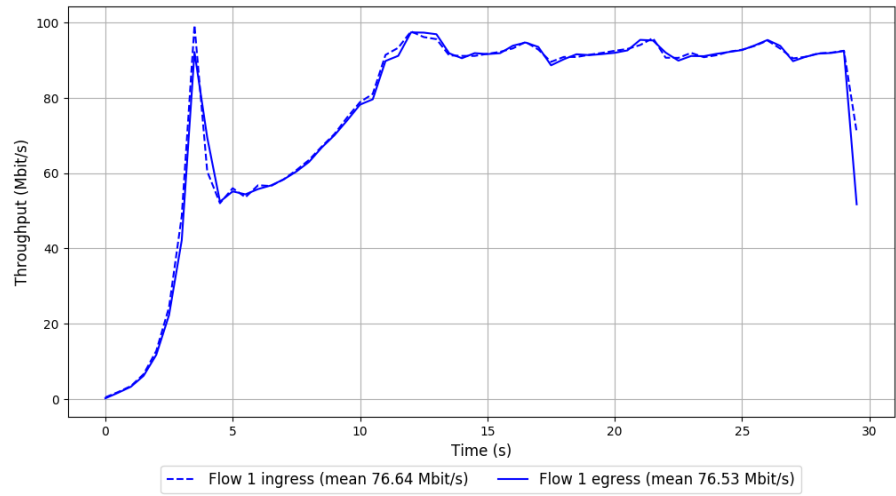


Run 4: Statistics of Vivace-latency

Start at: 2018-04-10 10:24:33
End at: 2018-04-10 10:25:03
Local clock offset: -5.371 ms
Remote clock offset: 8.093 ms

Below is generated by plot.py at 2018-04-10 16:48:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.53 Mbit/s
95th percentile per-packet one-way delay: 90.192 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 76.53 Mbit/s
95th percentile per-packet one-way delay: 90.192 ms
Loss rate: 0.74%

Run 4: Report of Vivace-latency — Data Link



Run 5: Statistics of Vivace-latency

Start at: 2018-04-10 10:46:47

End at: 2018-04-10 10:47:17

Local clock offset: -5.268 ms

Remote clock offset: 9.301 ms

Below is generated by plot.py at 2018-04-10 16:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.63 Mbit/s

95th percentile per-packet one-way delay: 87.493 ms

Loss rate: 0.74%

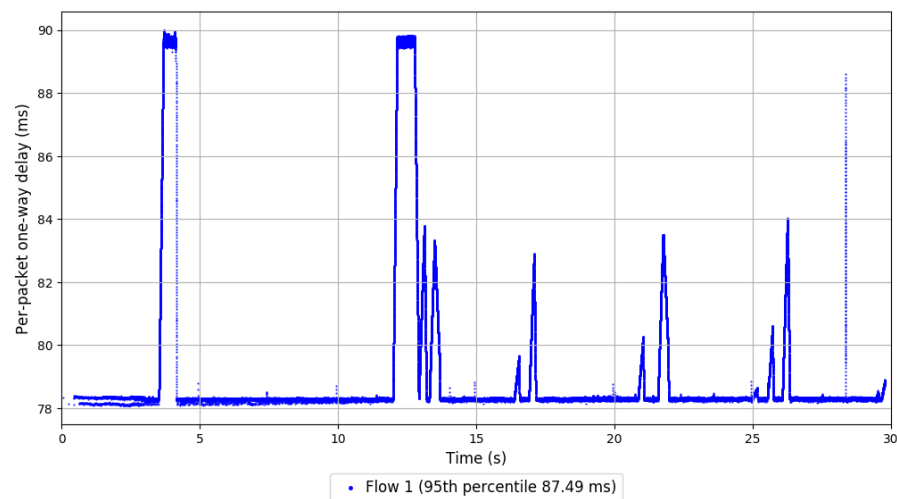
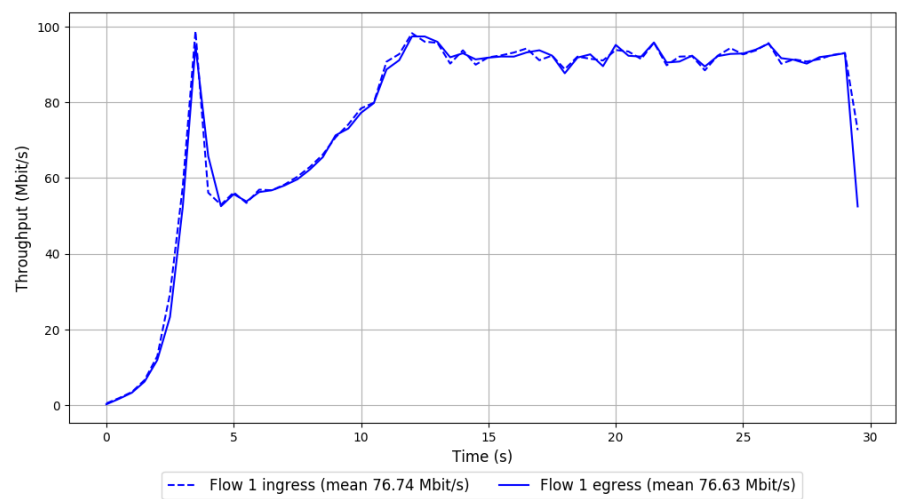
-- Flow 1:

Average throughput: 76.63 Mbit/s

95th percentile per-packet one-way delay: 87.493 ms

Loss rate: 0.74%

Run 5: Report of Vivace-latency — Data Link



Run 6: Statistics of Vivace-latency

Start at: 2018-04-10 11:09:05

End at: 2018-04-10 11:09:35

Local clock offset: -5.392 ms

Remote clock offset: 4.817 ms

Below is generated by plot.py at 2018-04-10 16:48:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.86 Mbit/s

95th percentile per-packet one-way delay: 85.119 ms

Loss rate: 1.91%

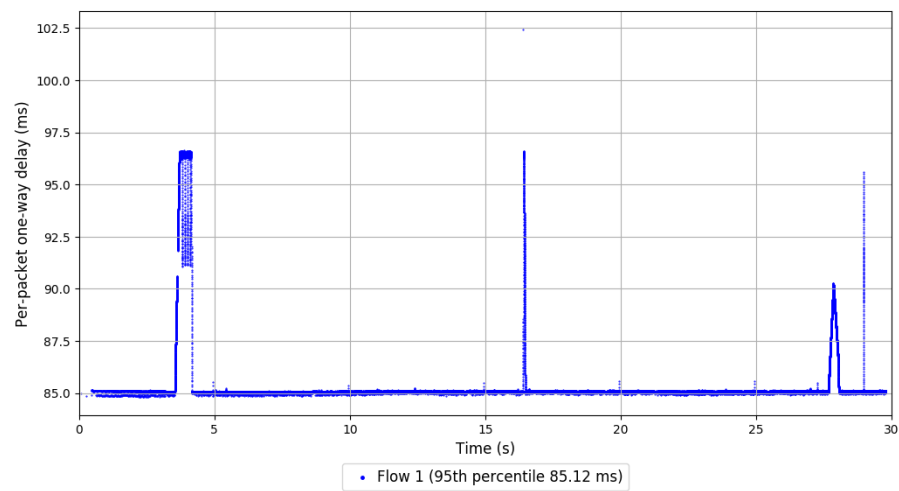
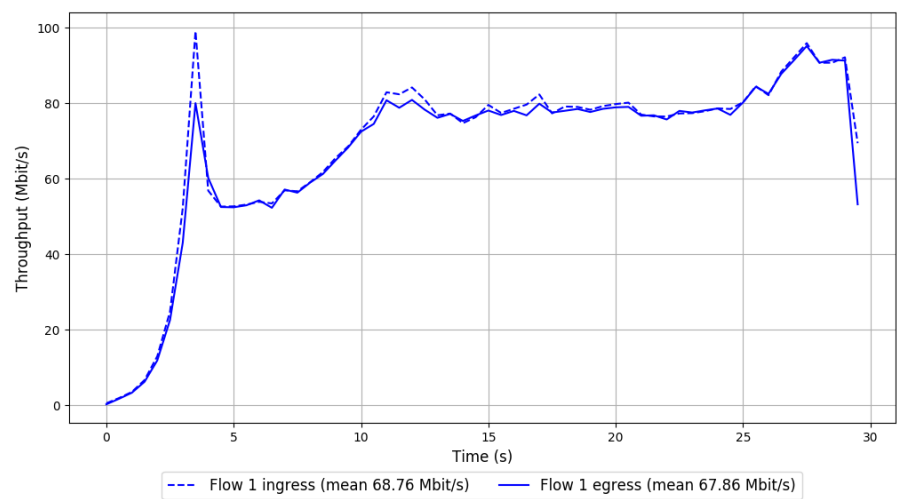
-- Flow 1:

Average throughput: 67.86 Mbit/s

95th percentile per-packet one-way delay: 85.119 ms

Loss rate: 1.91%

Run 6: Report of Vivace-latency — Data Link



Run 7: Statistics of Vivace-latency

Start at: 2018-04-10 11:31:11

End at: 2018-04-10 11:31:41

Local clock offset: -5.716 ms

Remote clock offset: 8.758 ms

Below is generated by plot.py at 2018-04-10 16:48:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 90.897 ms

Loss rate: 0.70%

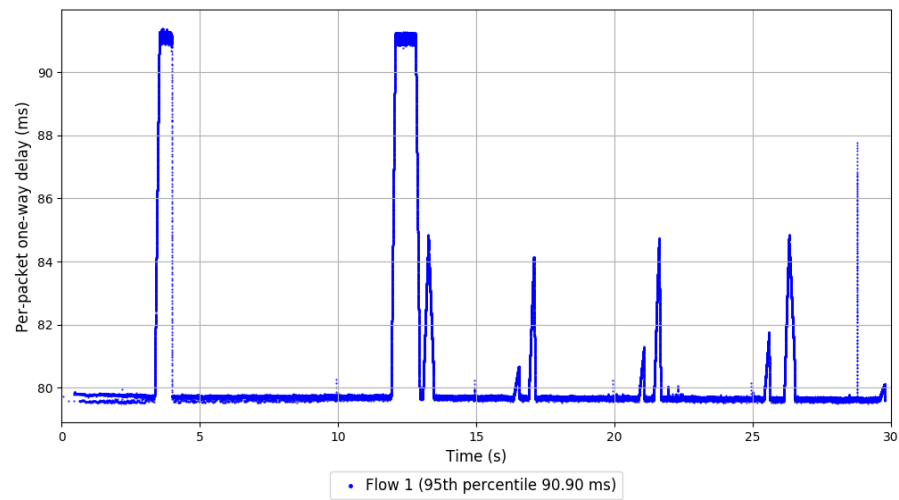
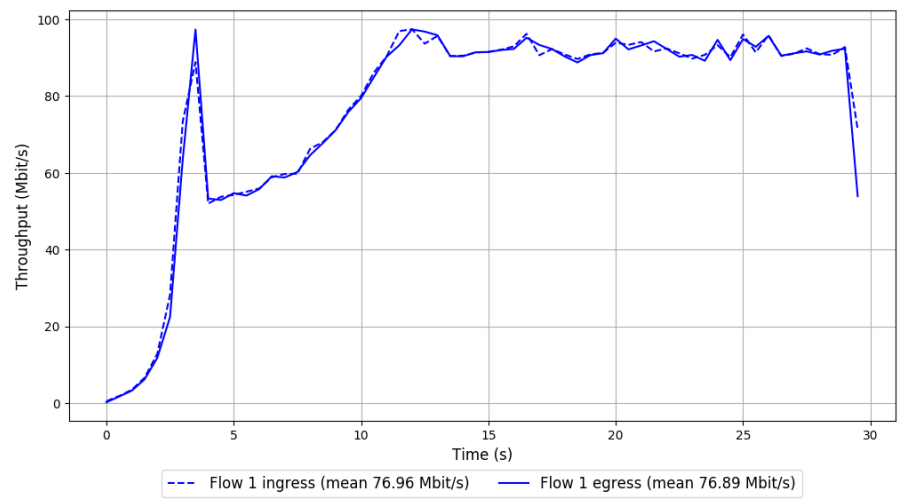
-- Flow 1:

Average throughput: 76.89 Mbit/s

95th percentile per-packet one-way delay: 90.897 ms

Loss rate: 0.70%

Run 7: Report of Vivace-latency — Data Link



Run 8: Statistics of Vivace-latency

Start at: 2018-04-10 11:53:33

End at: 2018-04-10 11:54:03

Local clock offset: -5.9 ms

Remote clock offset: 5.991 ms

Below is generated by plot.py at 2018-04-10 16:48:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 80.440 ms

Loss rate: 1.80%

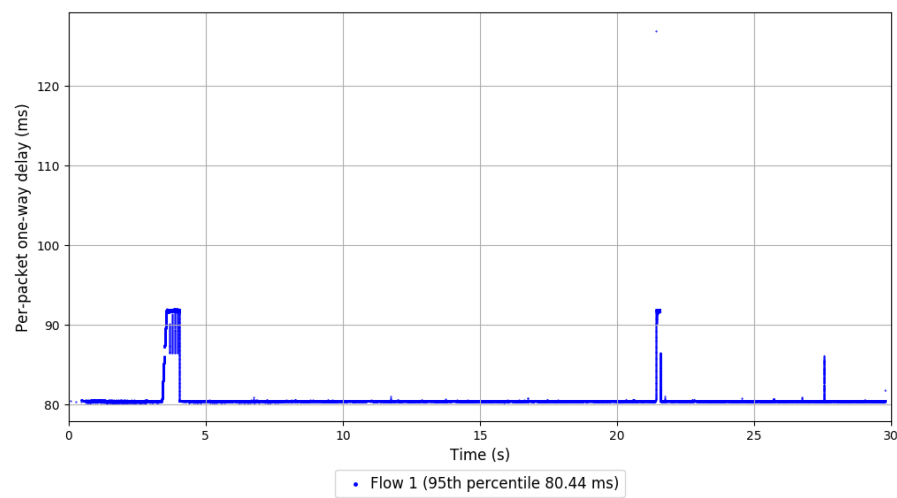
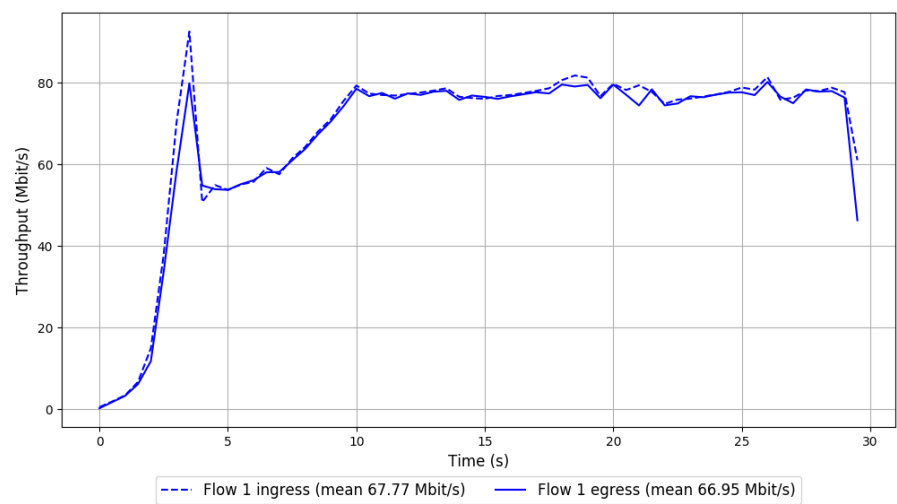
-- Flow 1:

Average throughput: 66.95 Mbit/s

95th percentile per-packet one-way delay: 80.440 ms

Loss rate: 1.80%

Run 8: Report of Vivace-latency — Data Link



Run 9: Statistics of Vivace-latency

Start at: 2018-04-10 12:15:54

End at: 2018-04-10 12:16:24

Local clock offset: -6.06 ms

Remote clock offset: 5.183 ms

Below is generated by plot.py at 2018-04-10 16:48:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 91.441 ms

Loss rate: 0.80%

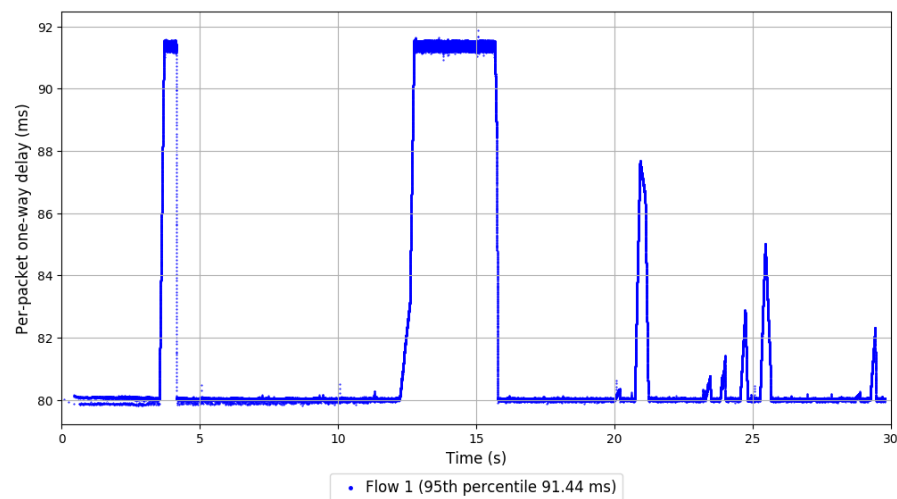
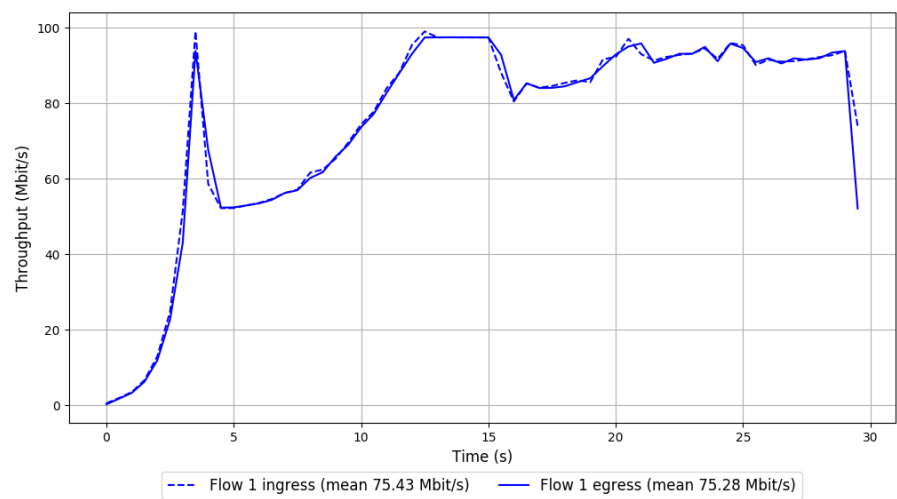
-- Flow 1:

Average throughput: 75.28 Mbit/s

95th percentile per-packet one-way delay: 91.441 ms

Loss rate: 0.80%

Run 9: Report of Vivace-latency — Data Link



Run 10: Statistics of Vivace-latency

Start at: 2018-04-10 12:38:05

End at: 2018-04-10 12:38:35

Local clock offset: -5.966 ms

Remote clock offset: -0.7 ms

Below is generated by plot.py at 2018-04-10 16:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 96.916 ms

Loss rate: 0.75%

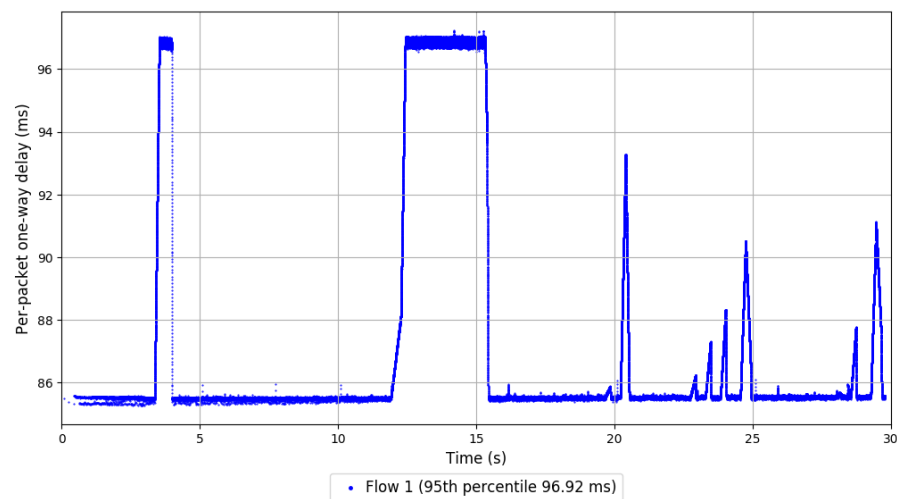
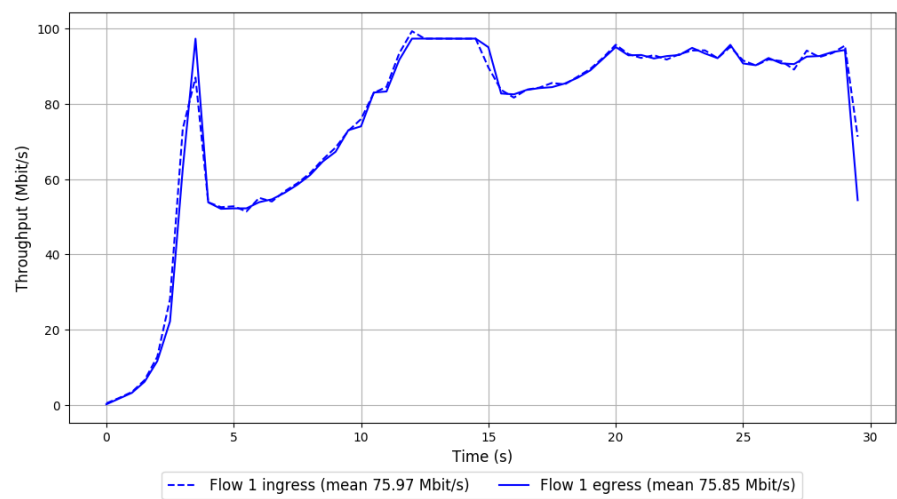
-- Flow 1:

Average throughput: 75.85 Mbit/s

95th percentile per-packet one-way delay: 96.916 ms

Loss rate: 0.75%

Run 10: Report of Vivace-latency — Data Link



Run 1: Statistics of Vivace-loss

Start at: 2018-04-10 09:15:29

End at: 2018-04-10 09:15:59

Local clock offset: -4.915 ms

Remote clock offset: 8.057 ms

Below is generated by plot.py at 2018-04-10 16:49:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 91.207 ms

Loss rate: 0.80%

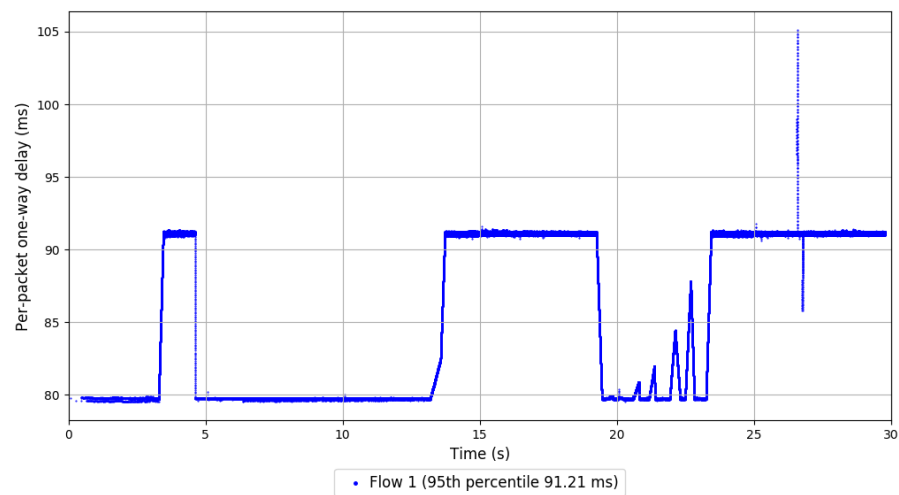
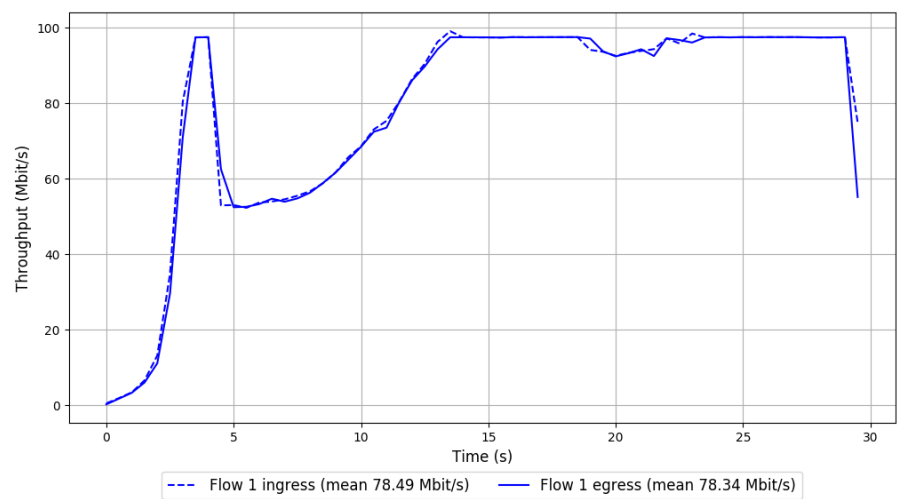
-- Flow 1:

Average throughput: 78.34 Mbit/s

95th percentile per-packet one-way delay: 91.207 ms

Loss rate: 0.80%

Run 1: Report of Vivace-loss — Data Link



Run 2: Statistics of Vivace-loss

Start at: 2018-04-10 09:37:38

End at: 2018-04-10 09:38:08

Local clock offset: -4.908 ms

Remote clock offset: 7.027 ms

Below is generated by plot.py at 2018-04-10 16:49:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 92.280 ms

Loss rate: 0.79%

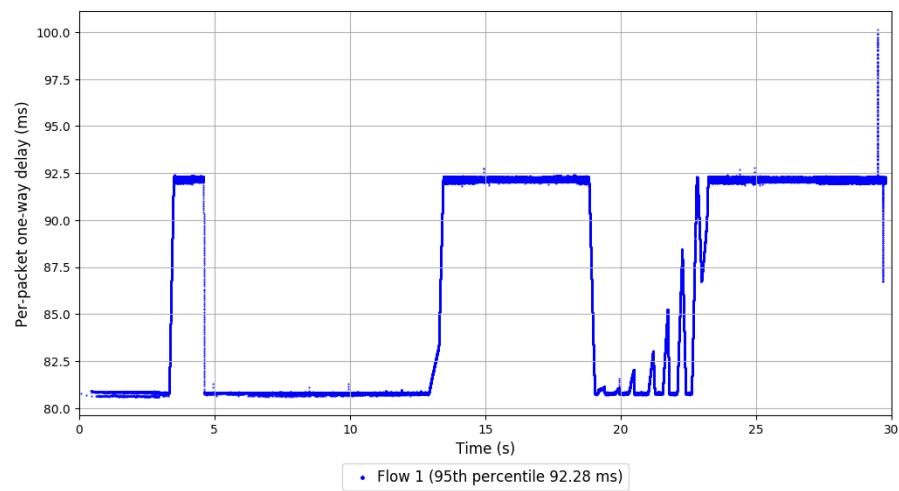
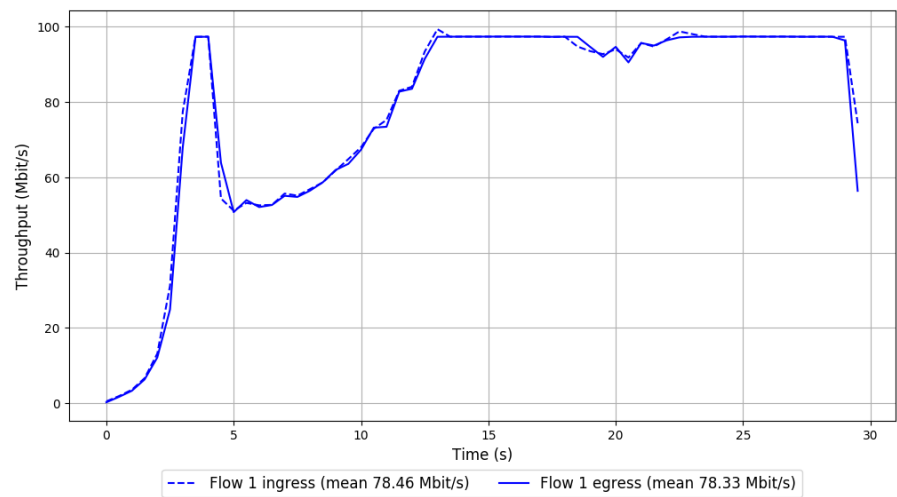
-- Flow 1:

Average throughput: 78.33 Mbit/s

95th percentile per-packet one-way delay: 92.280 ms

Loss rate: 0.79%

Run 2: Report of Vivace-loss — Data Link



Run 3: Statistics of Vivace-loss

Start at: 2018-04-10 09:59:49

End at: 2018-04-10 10:00:19

Local clock offset: -5.495 ms

Remote clock offset: 2.588 ms

Below is generated by plot.py at 2018-04-10 16:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 94.324 ms

Loss rate: 0.79%

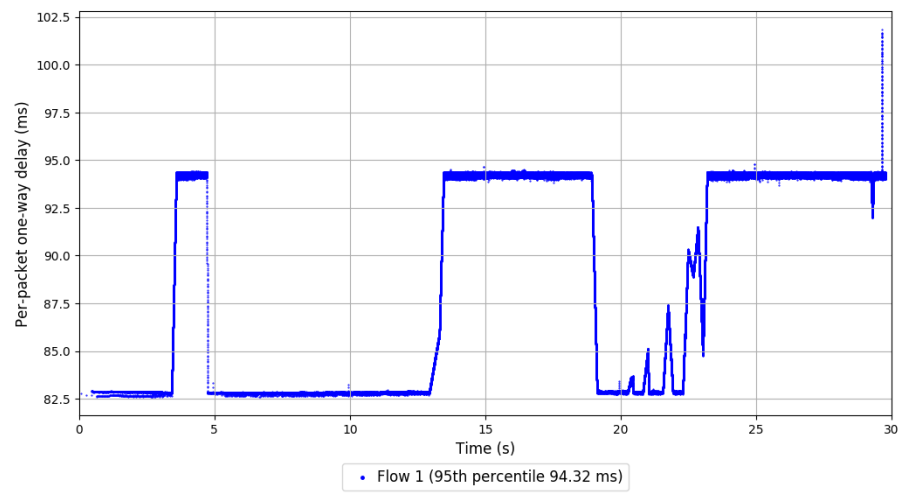
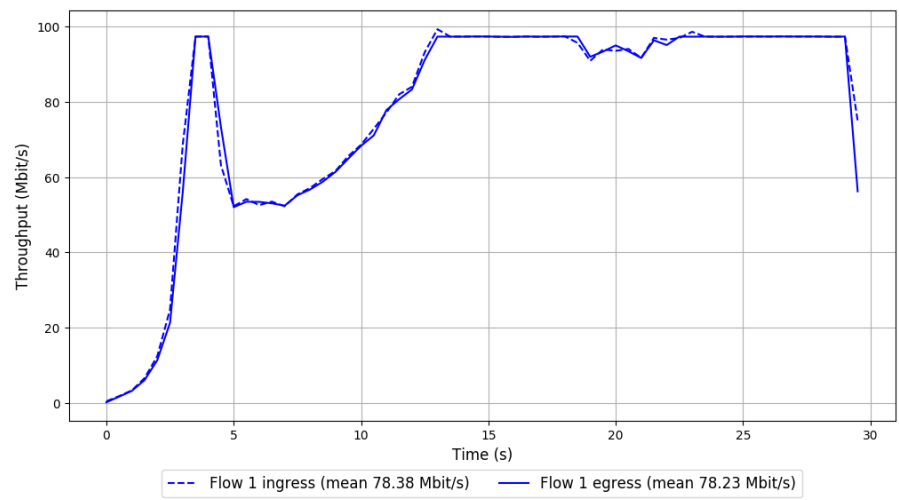
-- Flow 1:

Average throughput: 78.23 Mbit/s

95th percentile per-packet one-way delay: 94.324 ms

Loss rate: 0.79%

Run 3: Report of Vivace-loss — Data Link



Run 4: Statistics of Vivace-loss

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

End at: 2018-04-10 10:22:30

Local clock offset: -5.371 ms

Remote clock offset: 7.059 ms

Below is generated by plot.py at 2018-04-10 16:49:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.65 Mbit/s

95th percentile per-packet one-way delay: 92.422 ms

Loss rate: 0.80%

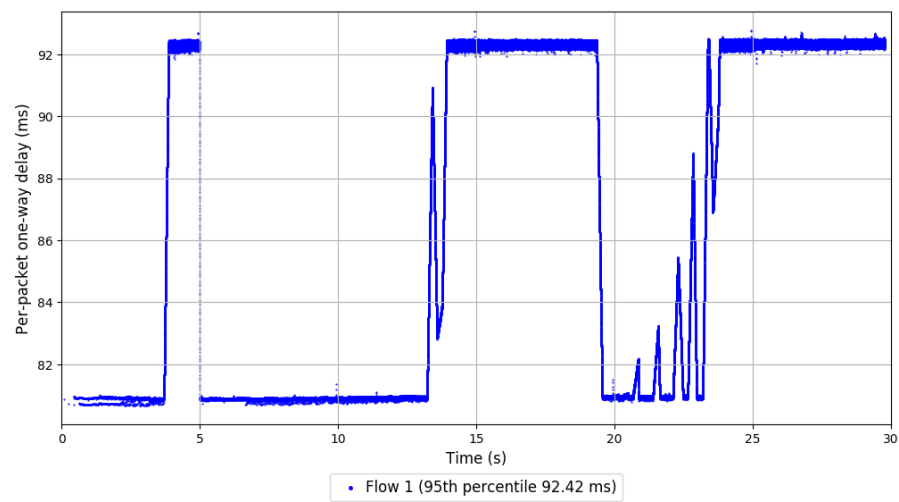
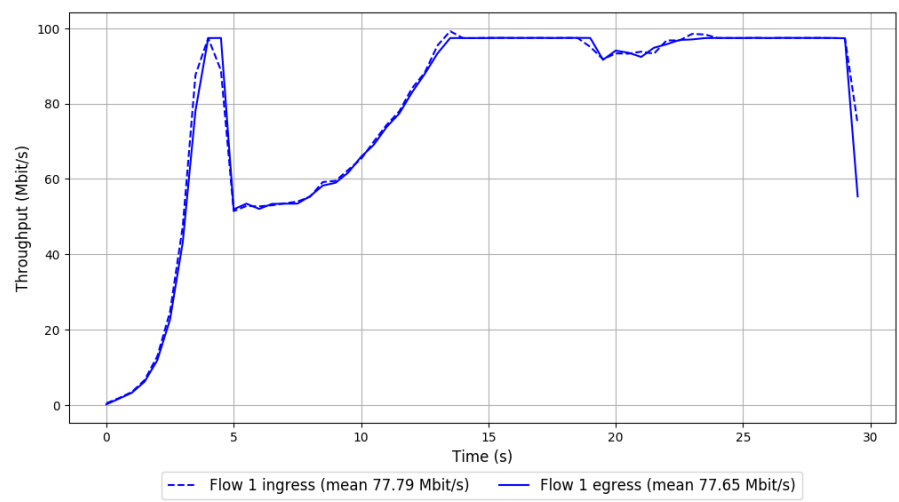
-- Flow 1:

Average throughput: 77.65 Mbit/s

95th percentile per-packet one-way delay: 92.422 ms

Loss rate: 0.80%

Run 4: Report of Vivace-loss — Data Link



Run 5: Statistics of Vivace-loss

Start at: 2018-04-10 10:44:15

End at: 2018-04-10 10:44:46

Local clock offset: -4.518 ms

Remote clock offset: 9.205 ms

Below is generated by plot.py at 2018-04-10 16:49:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 92.337 ms

Loss rate: 0.79%

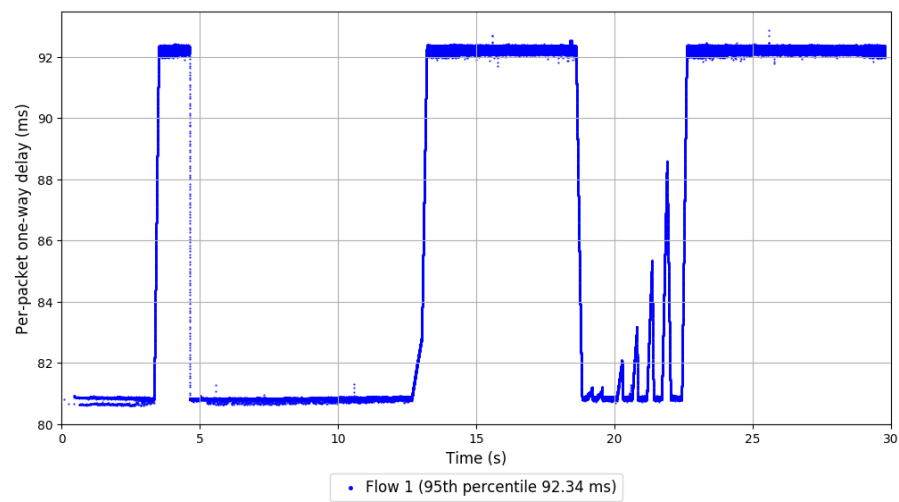
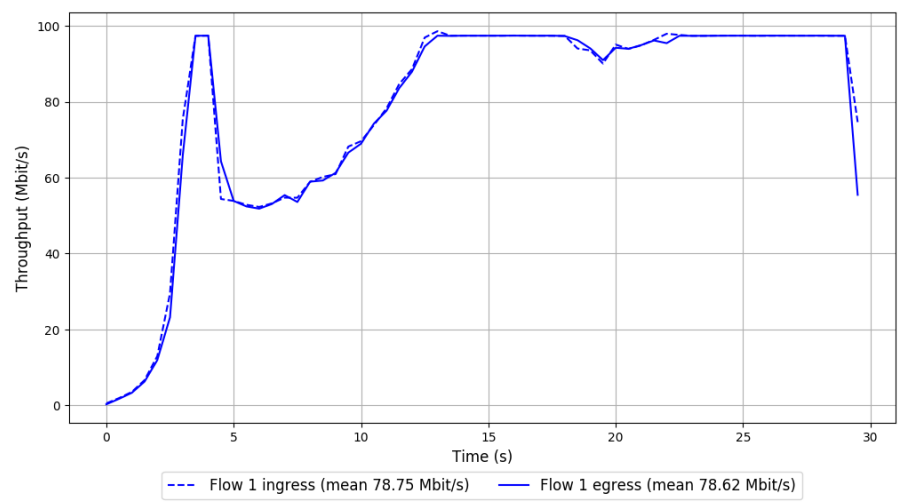
-- Flow 1:

Average throughput: 78.62 Mbit/s

95th percentile per-packet one-way delay: 92.337 ms

Loss rate: 0.79%

Run 5: Report of Vivace-loss — Data Link



Run 6: Statistics of Vivace-loss

Start at: 2018-04-10 11:06:24

End at: 2018-04-10 11:06:54

Local clock offset: -4.674 ms

Remote clock offset: 3.948 ms

Below is generated by plot.py at 2018-04-10 16:49:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 84.432 ms

Loss rate: 2.76%

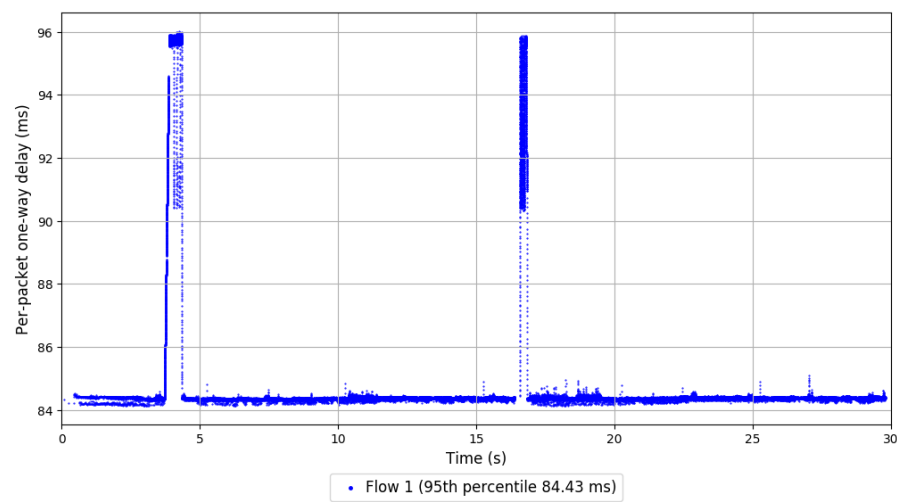
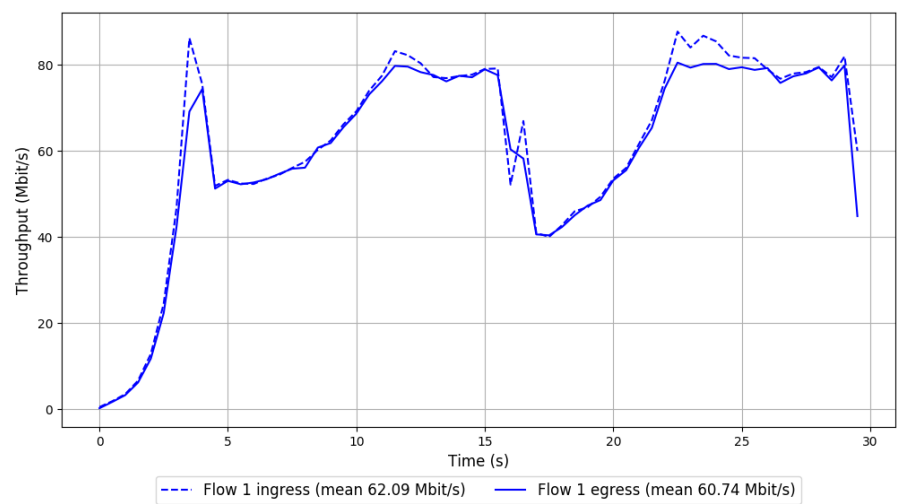
-- Flow 1:

Average throughput: 60.74 Mbit/s

95th percentile per-packet one-way delay: 84.432 ms

Loss rate: 2.76%

Run 6: Report of Vivace-loss — Data Link



Run 7: Statistics of Vivace-loss

Start at: 2018-04-10 11:28:38

End at: 2018-04-10 11:29:08

Local clock offset: -4.927 ms

Remote clock offset: 9.662 ms

Below is generated by plot.py at 2018-04-10 16:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 90.116 ms

Loss rate: 0.79%

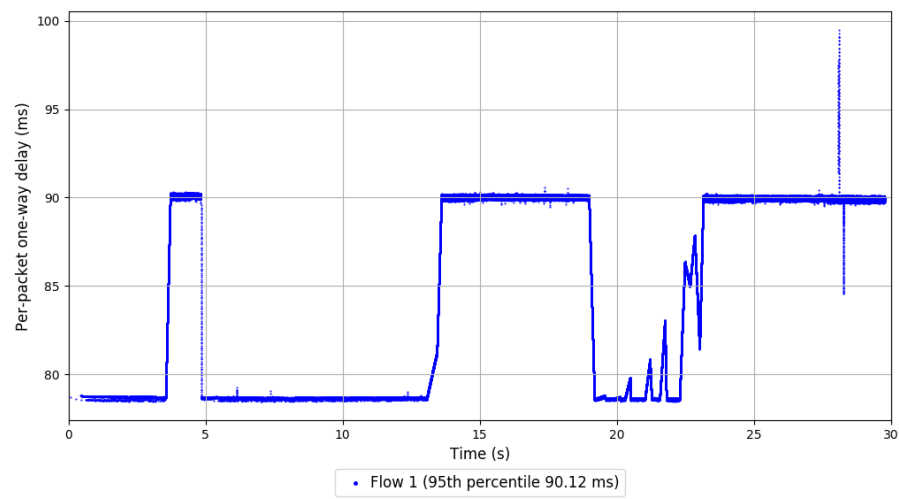
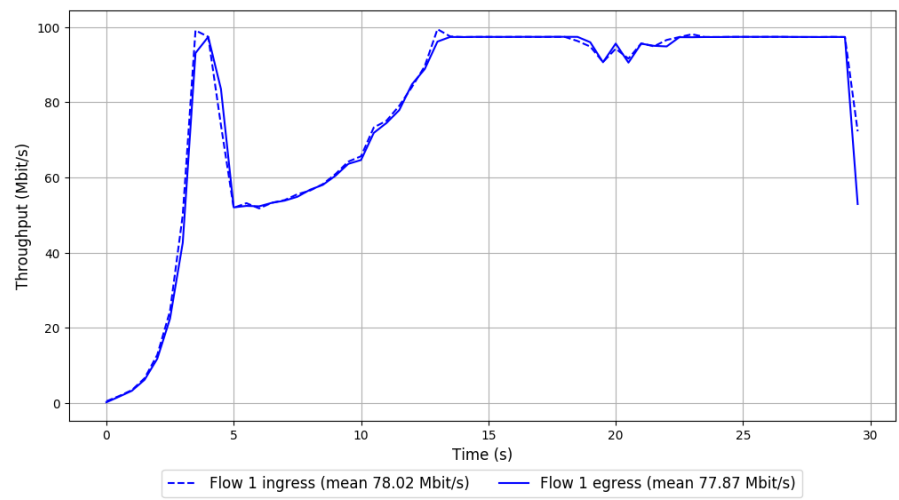
-- Flow 1:

Average throughput: 77.87 Mbit/s

95th percentile per-packet one-way delay: 90.116 ms

Loss rate: 0.79%

Run 7: Report of Vivace-loss — Data Link



Run 8: Statistics of Vivace-loss

Start at: 2018-04-10 11:50:52

End at: 2018-04-10 11:51:22

Local clock offset: -5.994 ms

Remote clock offset: 6.096 ms

Below is generated by plot.py at 2018-04-10 16:49:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.43 Mbit/s

95th percentile per-packet one-way delay: 79.668 ms

Loss rate: 1.90%

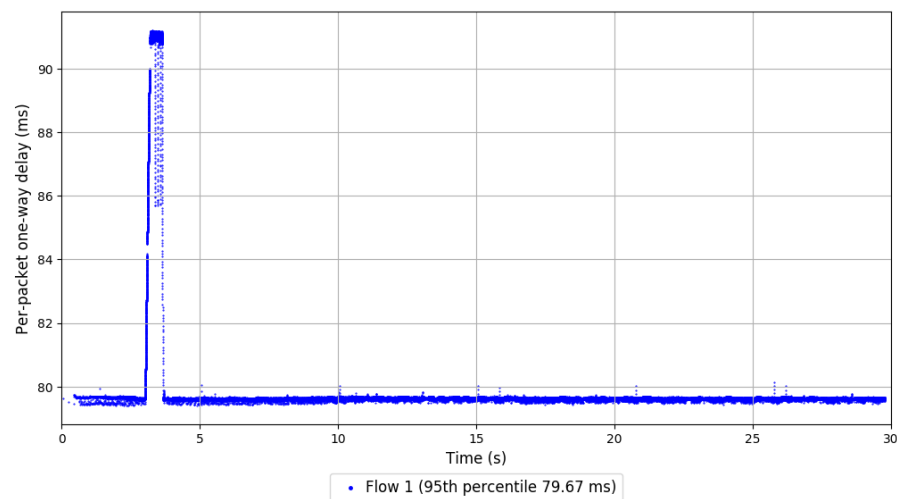
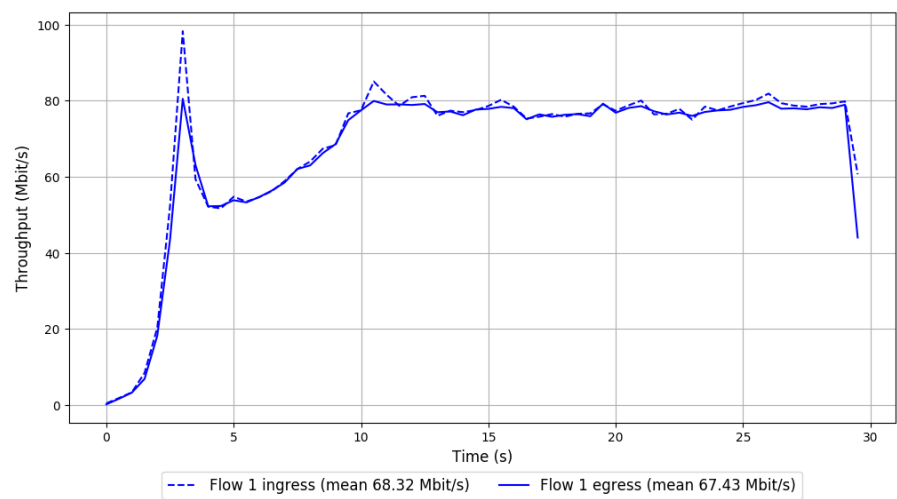
-- Flow 1:

Average throughput: 67.43 Mbit/s

95th percentile per-packet one-way delay: 79.668 ms

Loss rate: 1.90%

Run 8: Report of Vivace-loss — Data Link



Run 9: Statistics of Vivace-loss

Start at: 2018-04-10 12:13:21

End at: 2018-04-10 12:13:51

Local clock offset: -5.956 ms

Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-04-10 16:50:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 94.430 ms

Loss rate: 0.78%

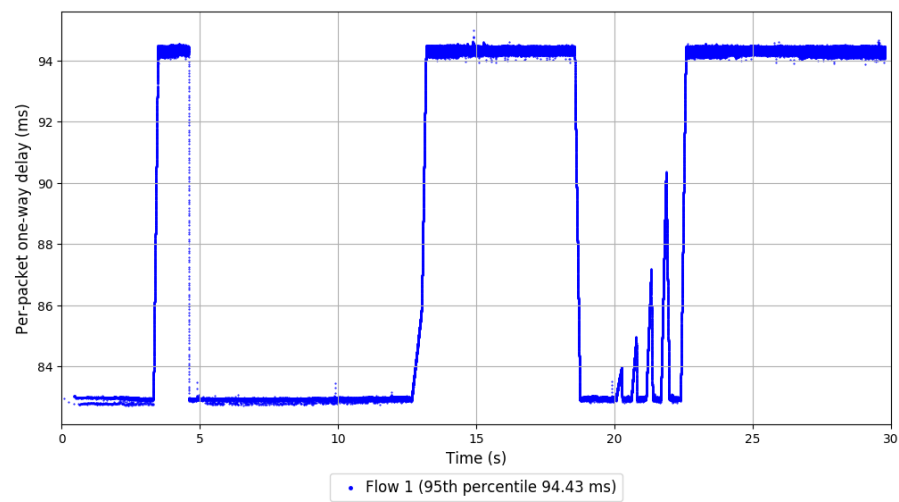
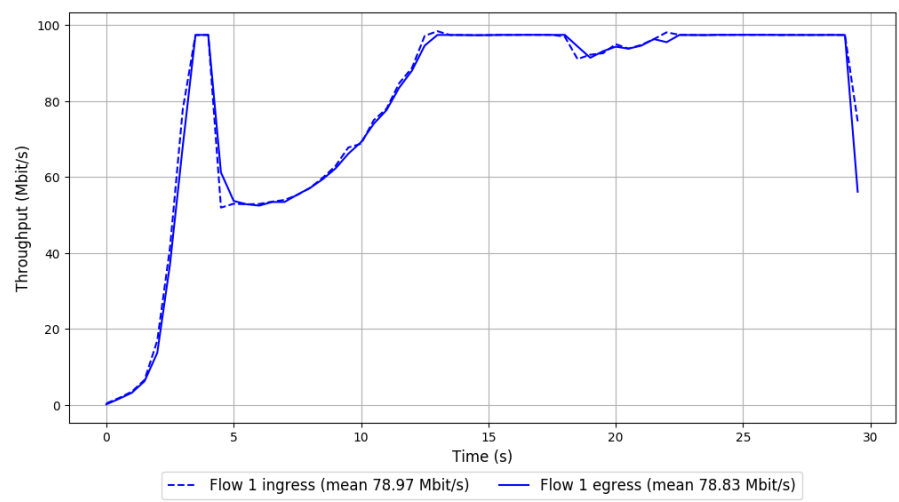
-- Flow 1:

Average throughput: 78.83 Mbit/s

95th percentile per-packet one-way delay: 94.430 ms

Loss rate: 0.78%

Run 9: Report of Vivace-loss — Data Link

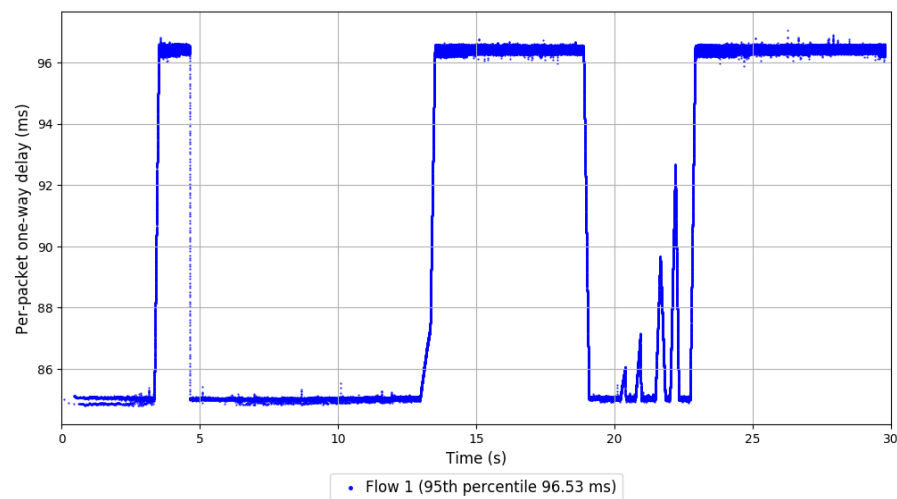
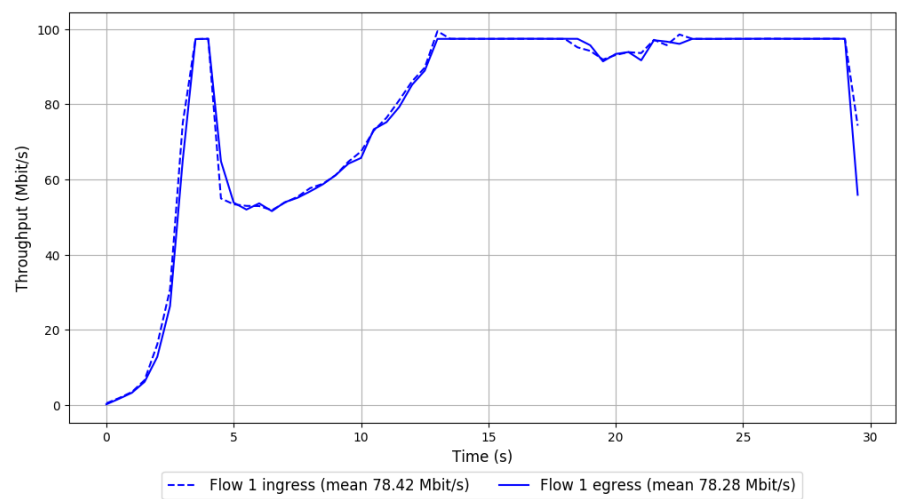


Run 10: Statistics of Vivace-loss

Start at: 2018-04-10 12:35:32
End at: 2018-04-10 12:36:02
Local clock offset: -6.726 ms
Remote clock offset: -1.039 ms

Below is generated by plot.py at 2018-04-10 16:50:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.28 Mbit/s
95th percentile per-packet one-way delay: 96.527 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 78.28 Mbit/s
95th percentile per-packet one-way delay: 96.527 ms
Loss rate: 0.79%

Run 10: Report of Vivace-loss — Data Link



Run 1: Statistics of Vivace-LTE

Start at: 2018-04-10 09:20:27

End at: 2018-04-10 09:20:57

Local clock offset: -4.884 ms

Remote clock offset: 1.536 ms

Below is generated by plot.py at 2018-04-10 16:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.02 Mbit/s

95th percentile per-packet one-way delay: 96.489 ms

Loss rate: 0.92%

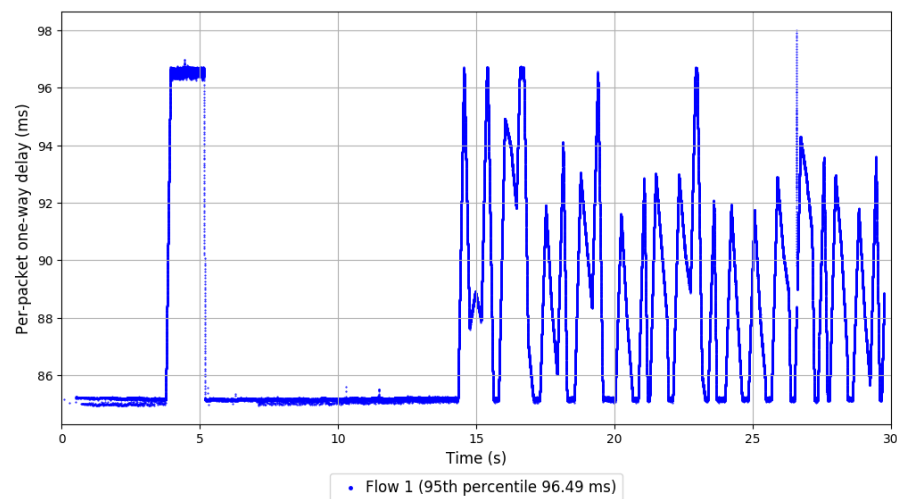
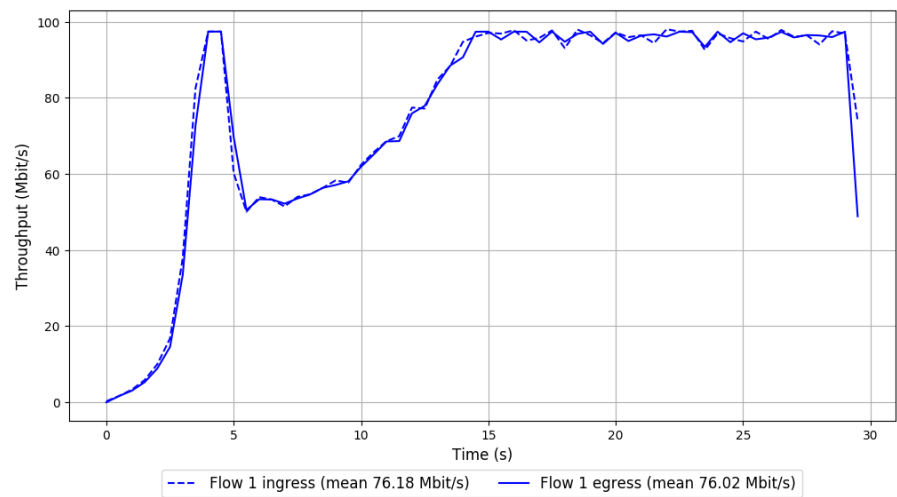
-- Flow 1:

Average throughput: 76.02 Mbit/s

95th percentile per-packet one-way delay: 96.489 ms

Loss rate: 0.92%

Run 1: Report of Vivace-LTE — Data Link



Run 2: Statistics of Vivace-LTE

Start at: 2018-04-10 09:42:41

End at: 2018-04-10 09:43:11

Local clock offset: -4.846 ms

Remote clock offset: 2.176 ms

Below is generated by plot.py at 2018-04-10 16:50:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 95.323 ms

Loss rate: 0.78%

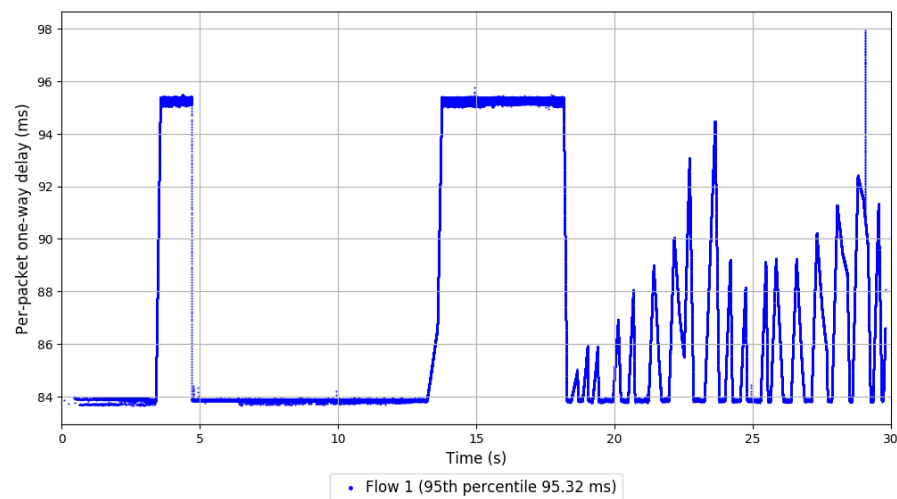
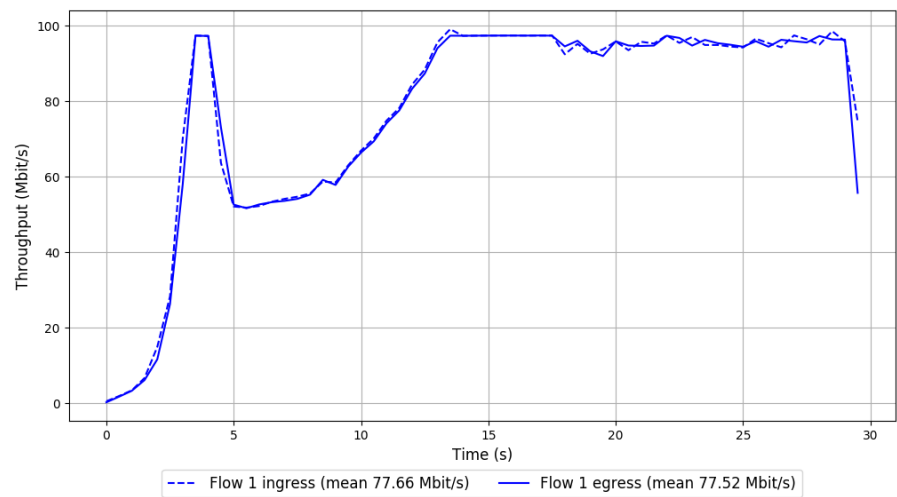
-- Flow 1:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 95.323 ms

Loss rate: 0.78%

Run 2: Report of Vivace-LTE — Data Link



Run 3: Statistics of Vivace-LTE

Start at: 2018-04-10 10:04:52

End at: 2018-04-10 10:05:22

Local clock offset: -5.587 ms

Remote clock offset: 7.41 ms

Below is generated by plot.py at 2018-04-10 16:50:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.17 Mbit/s

95th percentile per-packet one-way delay: 89.854 ms

Loss rate: 0.75%

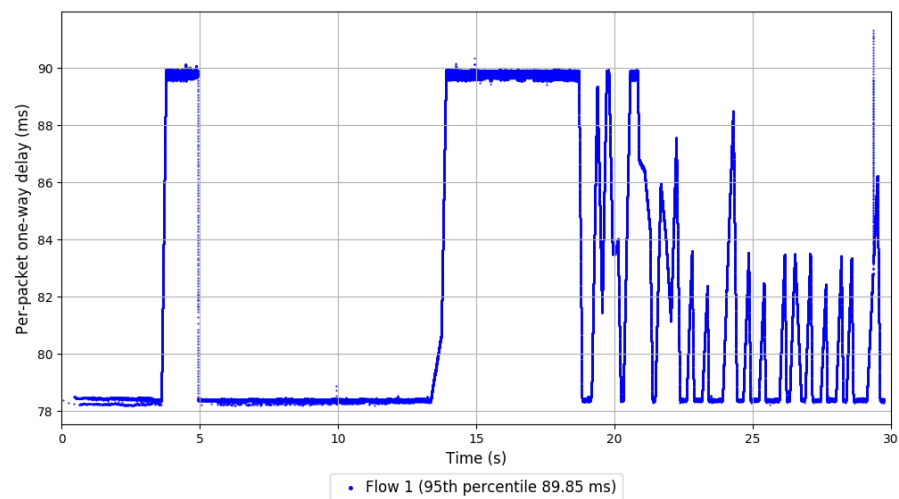
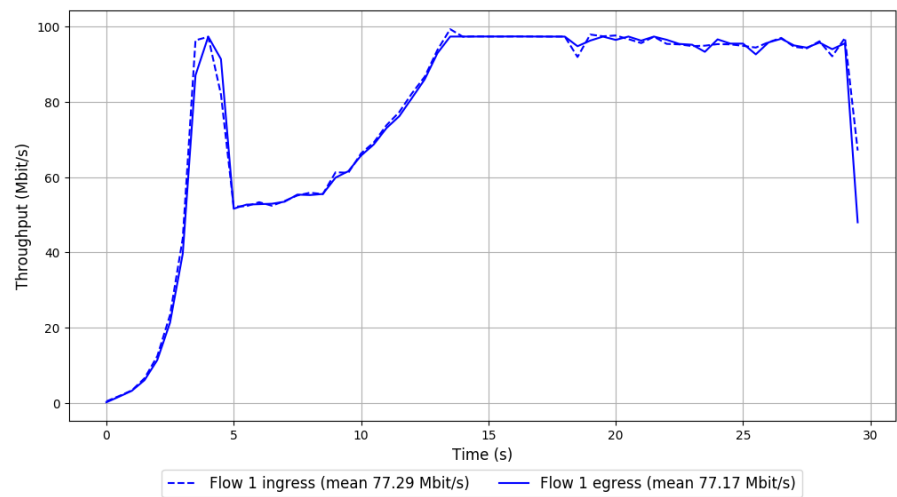
-- Flow 1:

Average throughput: 77.17 Mbit/s

95th percentile per-packet one-way delay: 89.854 ms

Loss rate: 0.75%

Run 3: Report of Vivace-LTE — Data Link



Run 4: Statistics of Vivace-LTE

Start at: 2018-04-10 10:27:03

End at: 2018-04-10 10:27:33

Local clock offset: -6.164 ms

Remote clock offset: 2.723 ms

Below is generated by plot.py at 2018-04-10 16:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 96.432 ms

Loss rate: 0.75%

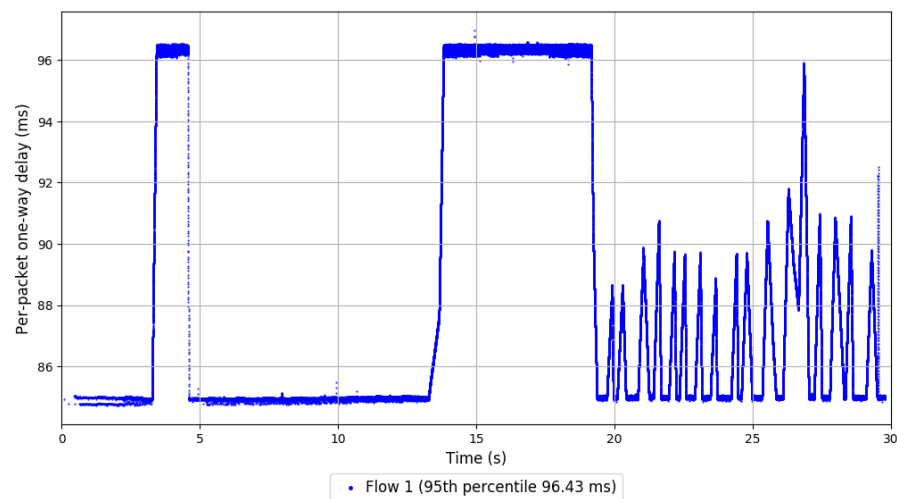
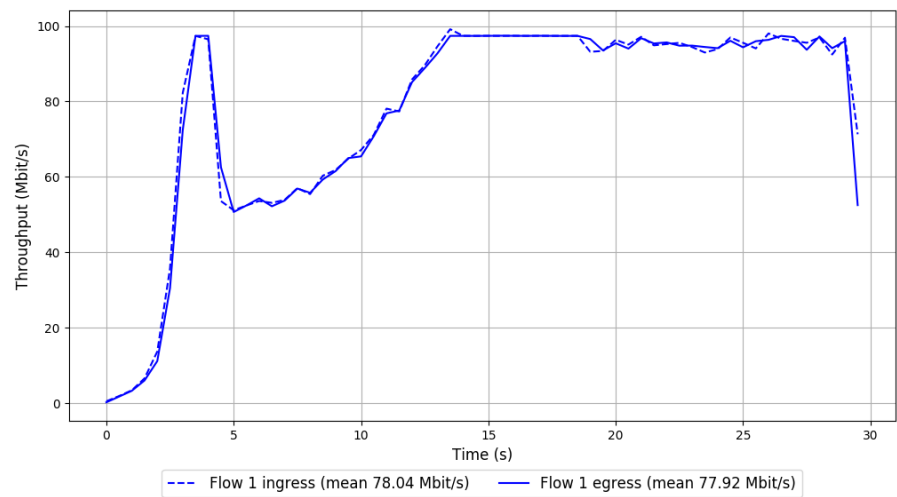
-- Flow 1:

Average throughput: 77.92 Mbit/s

95th percentile per-packet one-way delay: 96.432 ms

Loss rate: 0.75%

Run 4: Report of Vivace-LTE — Data Link



Run 5: Statistics of Vivace-LTE

Start at: 2018-04-10 10:49:17

End at: 2018-04-10 10:49:47

Local clock offset: -4.568 ms

Remote clock offset: 3.741 ms

Below is generated by plot.py at 2018-04-10 16:50:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.52 Mbit/s

95th percentile per-packet one-way delay: 86.466 ms

Loss rate: 2.03%

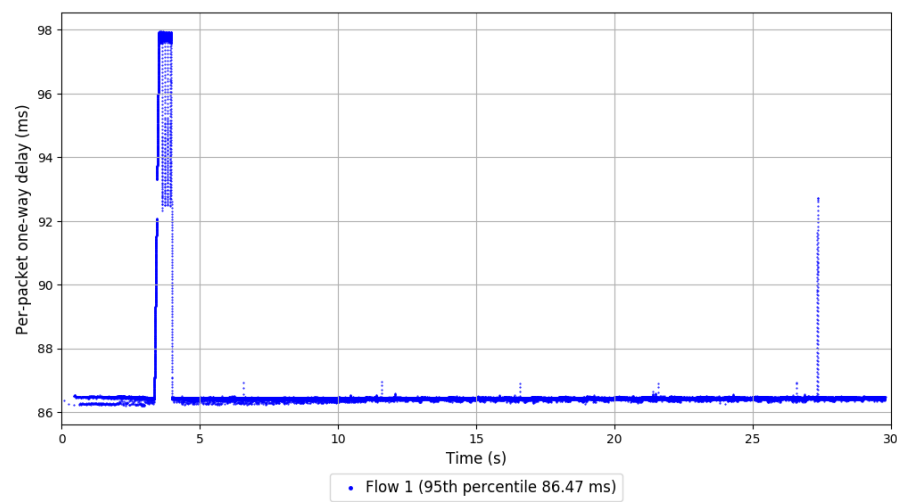
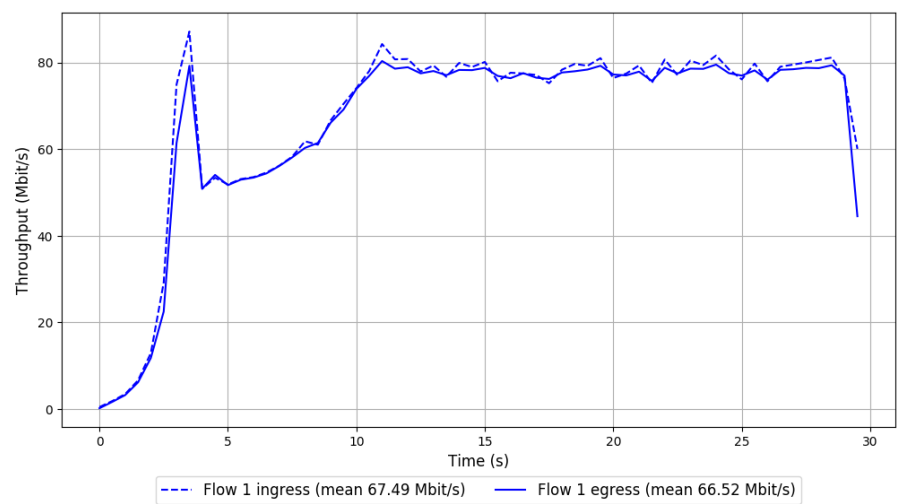
-- Flow 1:

Average throughput: 66.52 Mbit/s

95th percentile per-packet one-way delay: 86.466 ms

Loss rate: 2.03%

Run 5: Report of Vivace-LTE — Data Link



Run 6: Statistics of Vivace-LTE

Start at: 2018-04-10 11:11:34

End at: 2018-04-10 11:12:04

Local clock offset: -6.189 ms

Remote clock offset: 8.864 ms

Below is generated by plot.py at 2018-04-10 16:50:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.52 Mbit/s

95th percentile per-packet one-way delay: 91.963 ms

Loss rate: 0.77%

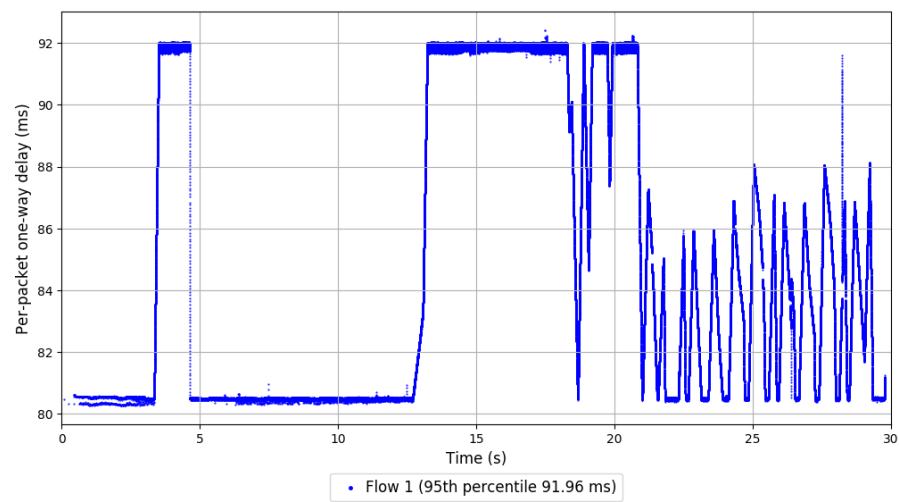
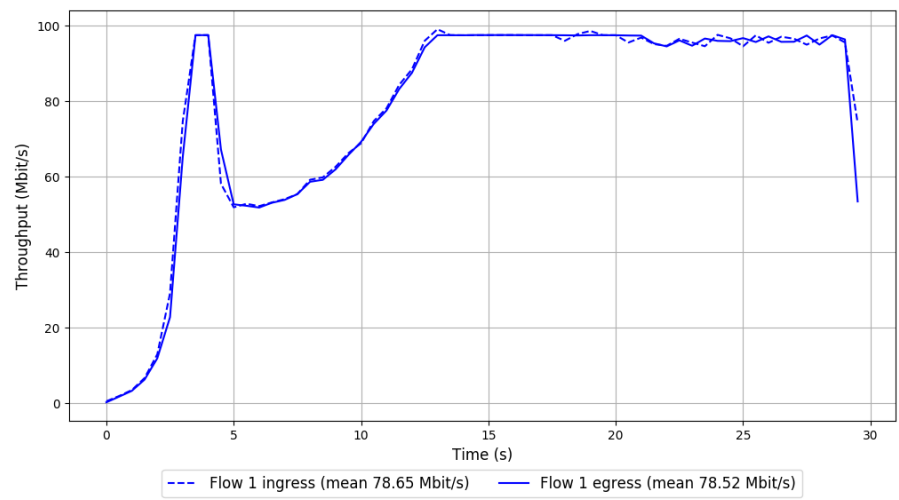
-- Flow 1:

Average throughput: 78.52 Mbit/s

95th percentile per-packet one-way delay: 91.963 ms

Loss rate: 0.77%

Run 6: Report of Vivace-LTE — Data Link



Run 7: Statistics of Vivace-LTE

Start at: 2018-04-10 11:33:41

End at: 2018-04-10 11:34:11

Local clock offset: -6.508 ms

Remote clock offset: 8.916 ms

Below is generated by plot.py at 2018-04-10 16:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 78.489 ms

Loss rate: 1.97%

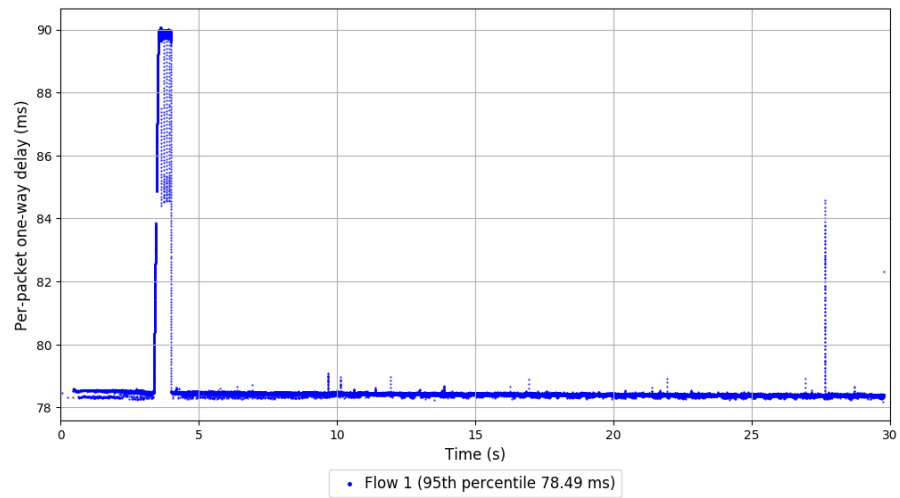
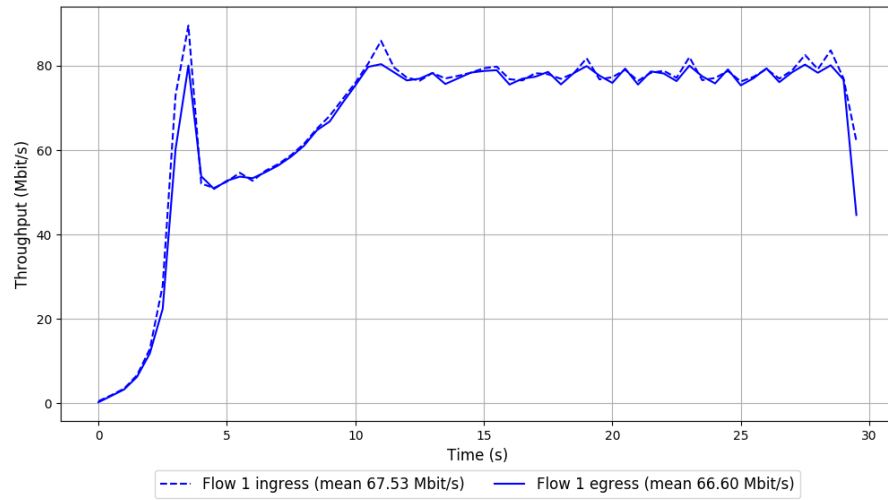
-- Flow 1:

Average throughput: 66.60 Mbit/s

95th percentile per-packet one-way delay: 78.489 ms

Loss rate: 1.97%

Run 7: Report of Vivace-LTE — Data Link



Run 8: Statistics of Vivace-LTE

Start at: 2018-04-10 11:56:02

End at: 2018-04-10 11:56:32

Local clock offset: -6.74 ms

Remote clock offset: 1.043 ms

Below is generated by plot.py at 2018-04-10 16:51:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 95.528 ms

Loss rate: 0.74%

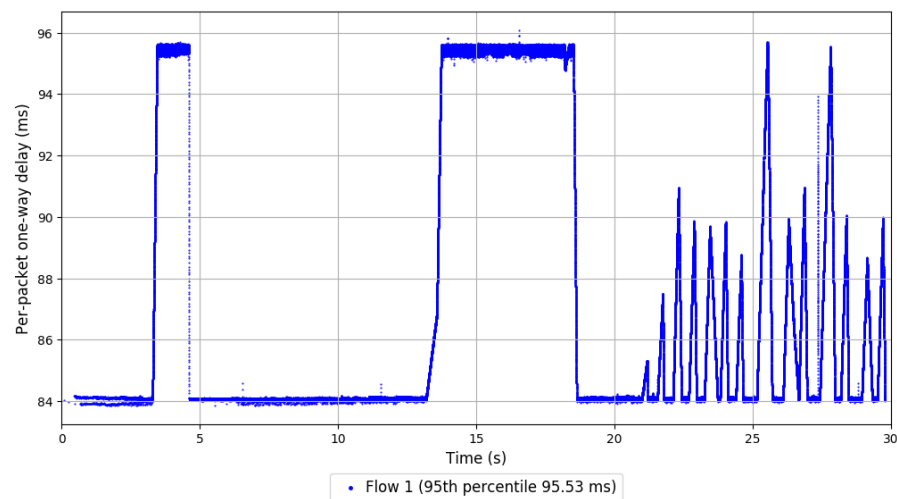
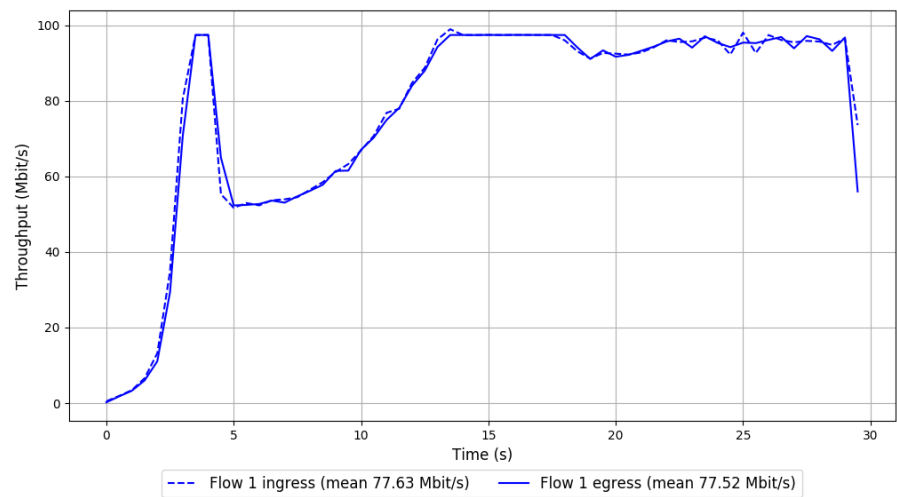
-- Flow 1:

Average throughput: 77.52 Mbit/s

95th percentile per-packet one-way delay: 95.528 ms

Loss rate: 0.74%

Run 8: Report of Vivace-LTE — Data Link



Run 9: Statistics of Vivace-LTE

Start at: 2018-04-10 12:18:23

End at: 2018-04-10 12:18:53

Local clock offset: -5.977 ms

Remote clock offset: 5.95 ms

Below is generated by plot.py at 2018-04-10 16:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 88.856 ms

Loss rate: 0.76%

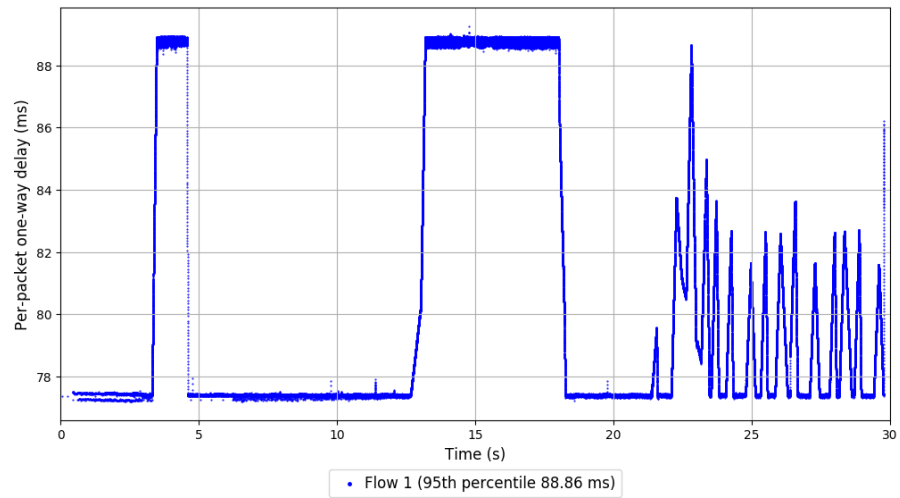
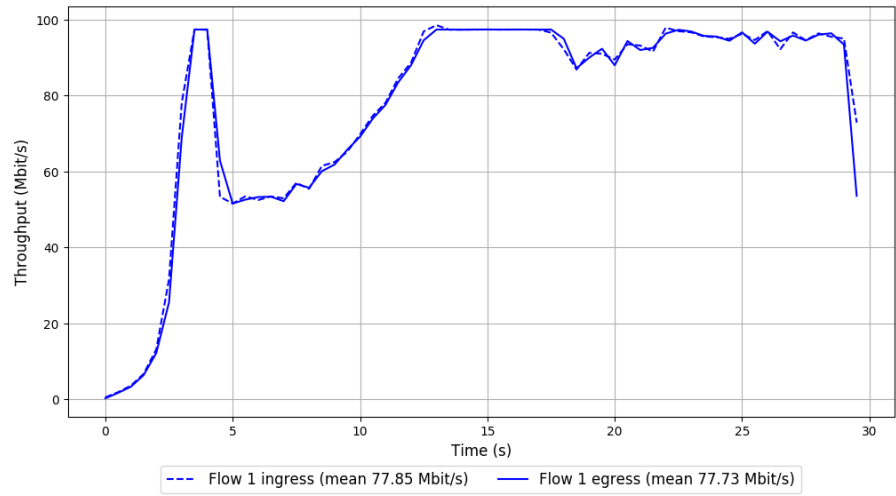
-- Flow 1:

Average throughput: 77.73 Mbit/s

95th percentile per-packet one-way delay: 88.856 ms

Loss rate: 0.76%

Run 9: Report of Vivace-LTE — Data Link



Run 10: Statistics of Vivace-LTE

Start at: 2018-04-10 12:40:34

End at: 2018-04-10 12:41:04

Local clock offset: -6.776 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-04-10 16:51:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 95.127 ms

Loss rate: 0.73%

-- Flow 1:

Average throughput: 78.02 Mbit/s

95th percentile per-packet one-way delay: 95.127 ms

Loss rate: 0.73%

Run 10: Report of Vivace-LTE — Data Link

