

Pantheon Report

Generated at 2018-04-24 12:50:02 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

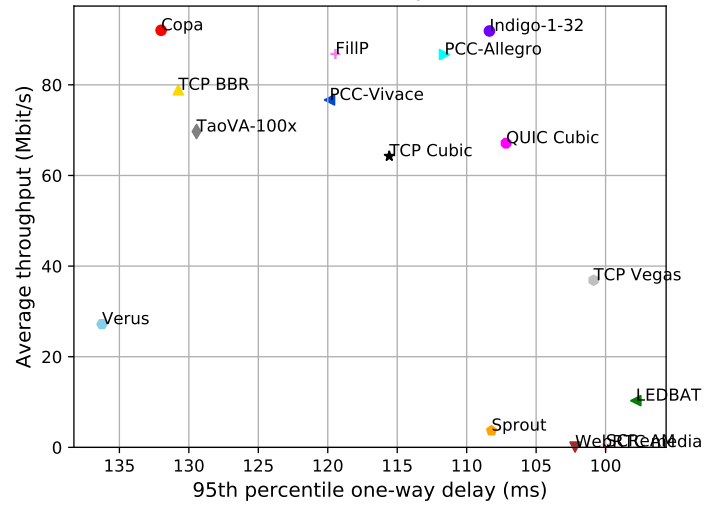
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

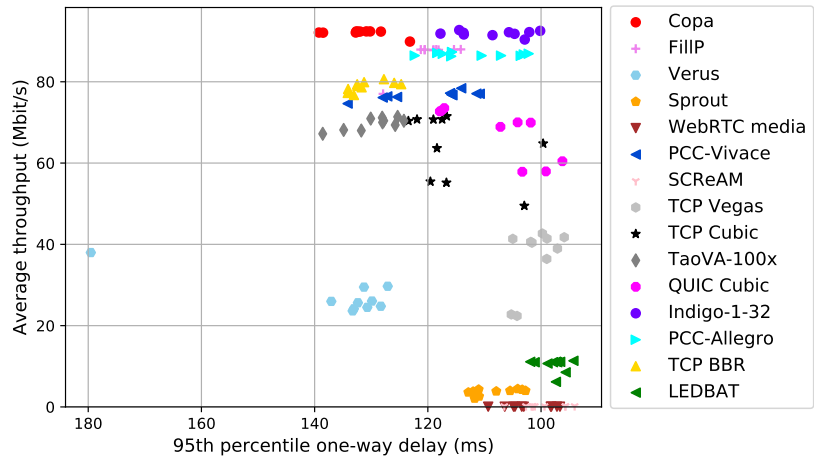
Git summary:

```
branch: master @ 114e807ac1bad7b85168ceb1f8a969063ee6c12c
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ 11f8c46a2bf1dc797253db7e8ca04076272b2a44
third_party/genericCC @ d223989828276fa83a807da6e0341dc0c7b89aec
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eaaeb30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 7a4ba531e75b4a6f66f5c4580192120401784ce3
third_party/webrtc @ f271183af822eee5d0031620f4bebf38aedc5581
```

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



test from AWS Brazil 2 Ethernet to Colombia 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	78.90	130.76	2.48
TCP Cubic	10	64.26	115.57	0.40
LEDBAT	10	10.31	97.82	0.01
PCC-Allegro	10	86.69	111.60	1.56
QUIC Cubic	9	67.13	107.16	0.19
SCReAM	10	0.22	99.98	0.00
WebRTC media	10	0.06	102.20	0.00
Sprout	10	3.70	108.21	0.07
TaoVA-100x	10	69.70	129.45	1.11
TCP Vegas	10	36.87	100.86	0.41
Verus	10	27.19	136.25	19.82
Copa	10	92.04	132.00	80.15
FillP	10	86.80	119.45	2.53
Indigo-1-32	10	91.89	108.36	0.70
PCC-Vivace	10	76.67	119.87	0.09
PCC-Expr	0	N/A	N/A	N/A

Run 1: Statistics of TCP BBR

Start at: 2018-04-24 08:45:22

End at: 2018-04-24 08:45:52

Local clock offset: -6.732 ms

Remote clock offset: 4.184 ms

Below is generated by plot.py at 2018-04-24 12:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 131.701 ms

Loss rate: 2.79%

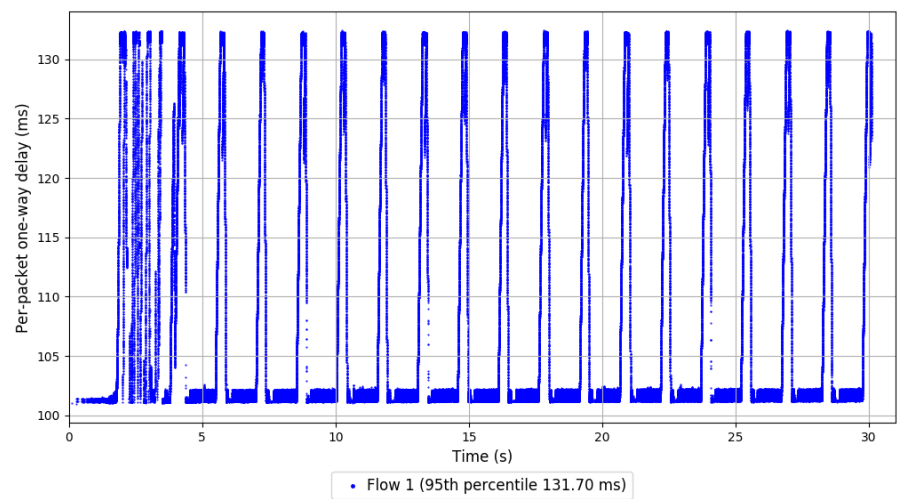
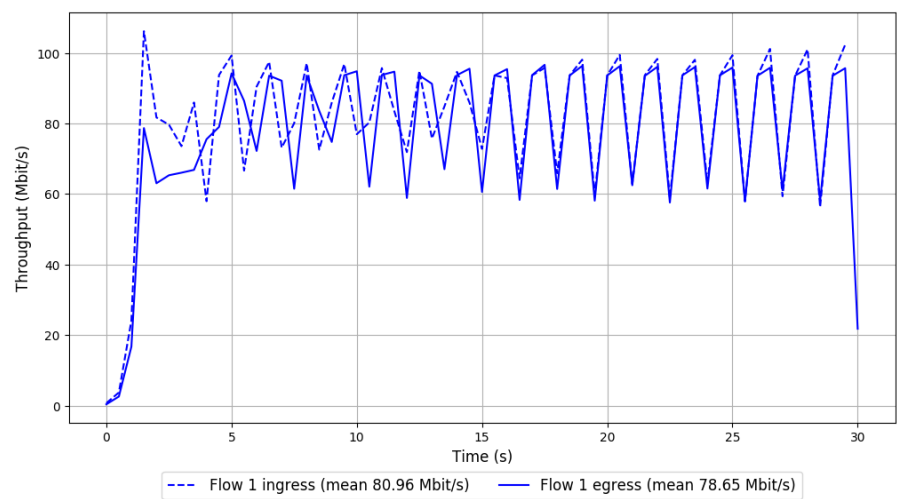
-- Flow 1:

Average throughput: 78.65 Mbit/s

95th percentile per-packet one-way delay: 131.701 ms

Loss rate: 2.79%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-04-24 09:06:26

End at: 2018-04-24 09:06:56

Local clock offset: -7.455 ms

Remote clock offset: 6.589 ms

Below is generated by plot.py at 2018-04-24 12:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 132.456 ms

Loss rate: 2.38%

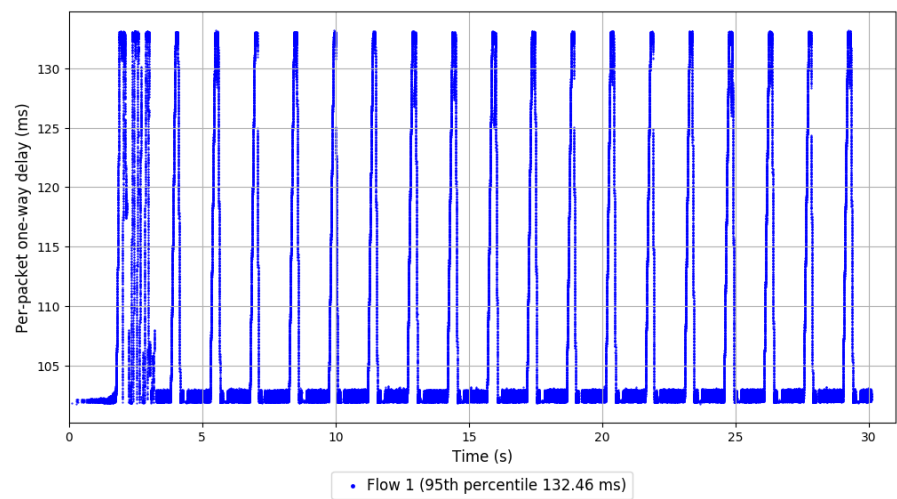
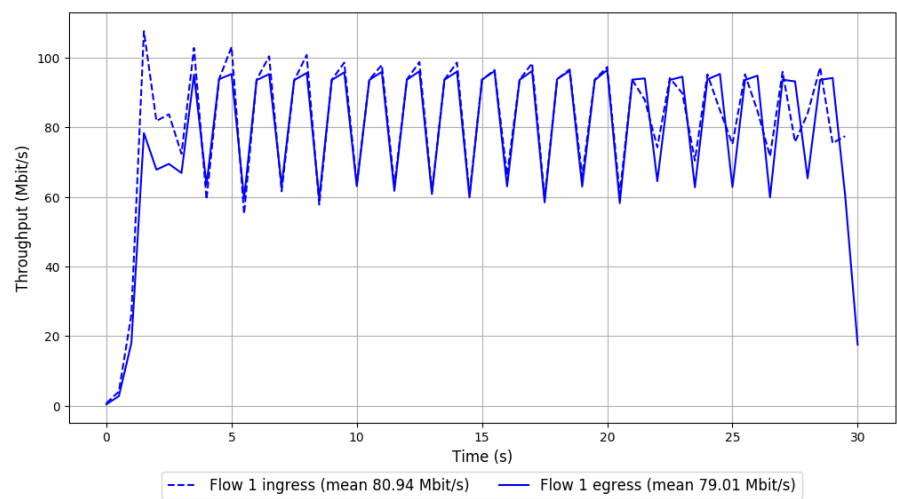
-- Flow 1:

Average throughput: 79.01 Mbit/s

95th percentile per-packet one-way delay: 132.456 ms

Loss rate: 2.38%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-04-24 09:27:31

End at: 2018-04-24 09:28:01

Local clock offset: -6.646 ms

Remote clock offset: 2.694 ms

Below is generated by plot.py at 2018-04-24 12:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 124.708 ms

Loss rate: 2.18%

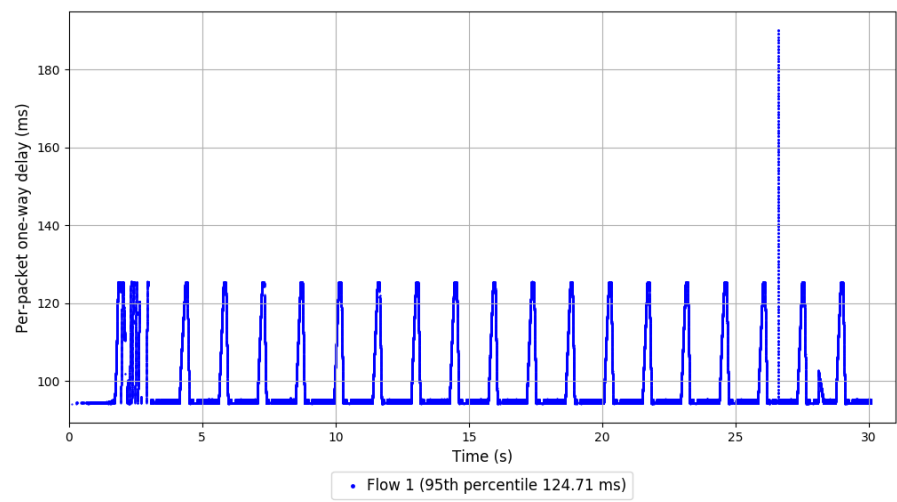
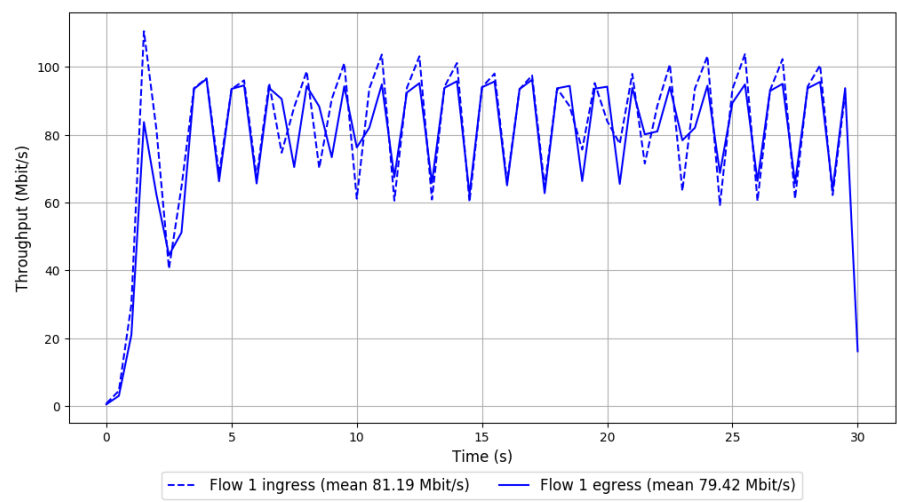
-- Flow 1:

Average throughput: 79.42 Mbit/s

95th percentile per-packet one-way delay: 124.708 ms

Loss rate: 2.18%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-04-24 09:48:34

End at: 2018-04-24 09:49:04

Local clock offset: -6.686 ms

Remote clock offset: 2.523 ms

Below is generated by plot.py at 2018-04-24 12:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 125.938 ms

Loss rate: 1.99%

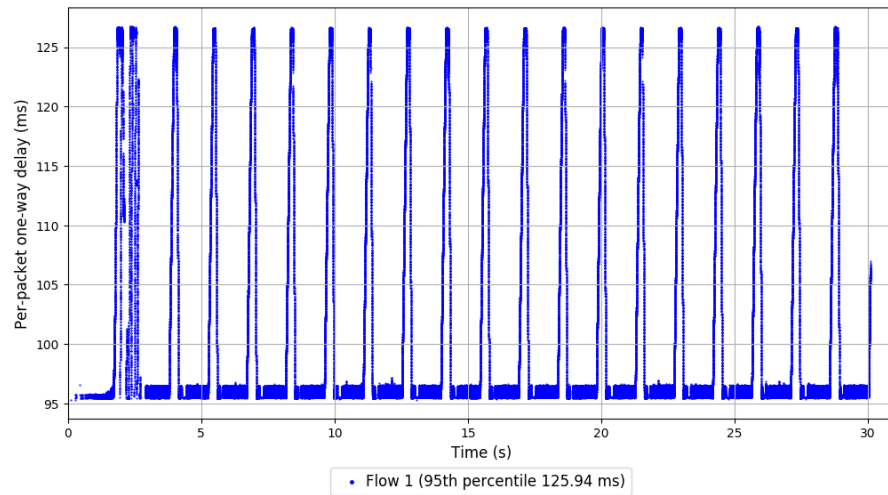
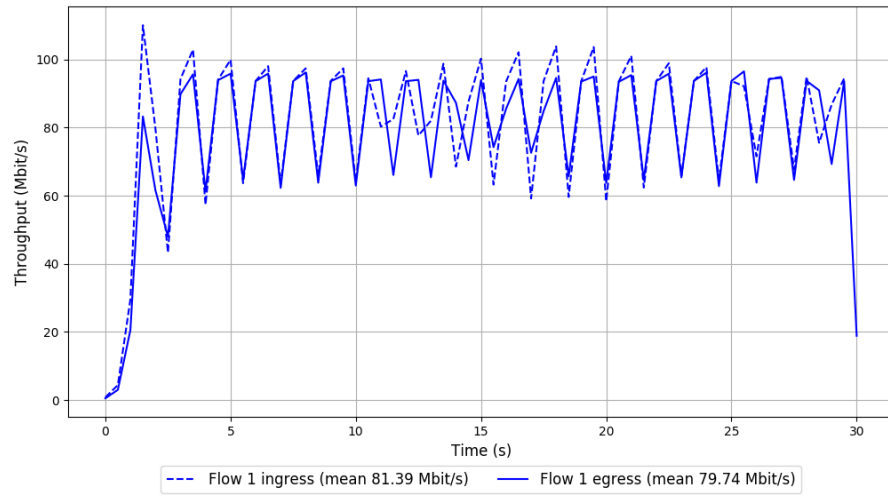
-- Flow 1:

Average throughput: 79.74 Mbit/s

95th percentile per-packet one-way delay: 125.938 ms

Loss rate: 1.99%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-04-24 10:09:35

End at: 2018-04-24 10:10:05

Local clock offset: -7.379 ms

Remote clock offset: 2.424 ms

Below is generated by plot.py at 2018-04-24 12:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 134.148 ms

Loss rate: 2.77%

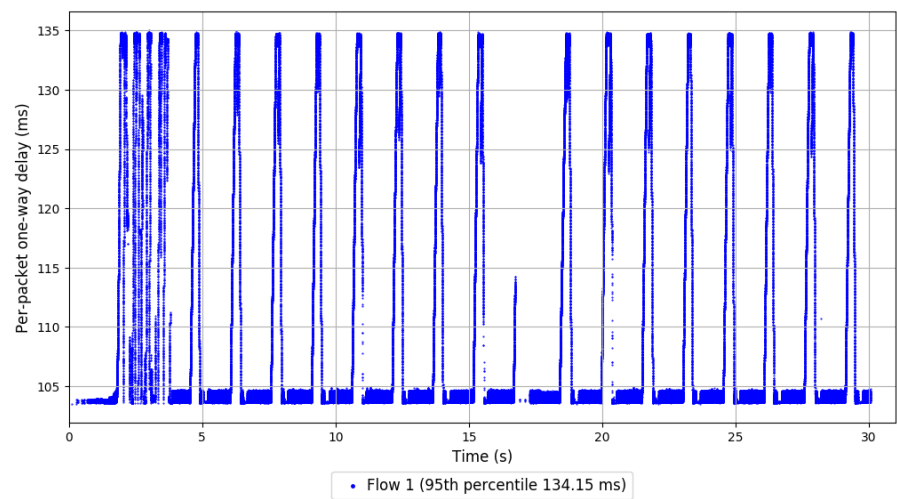
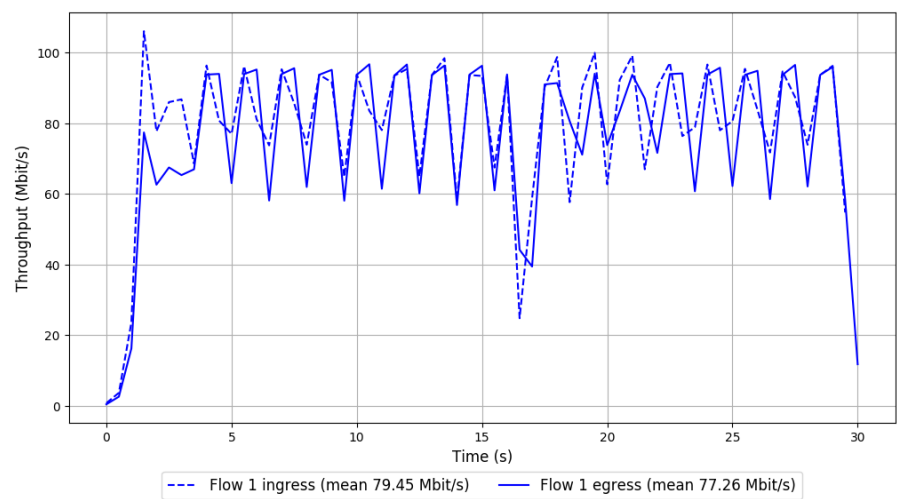
-- Flow 1:

Average throughput: 77.26 Mbit/s

95th percentile per-packet one-way delay: 134.148 ms

Loss rate: 2.77%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-04-24 10:30:36

End at: 2018-04-24 10:31:06

Local clock offset: -7.232 ms

Remote clock offset: 6.228 ms

Below is generated by plot.py at 2018-04-24 12:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.91 Mbit/s

95th percentile per-packet one-way delay: 131.265 ms

Loss rate: 2.25%

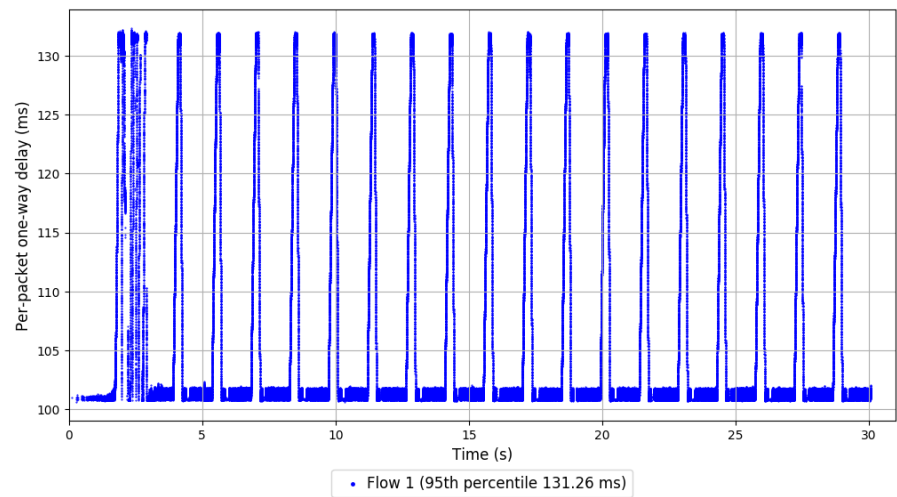
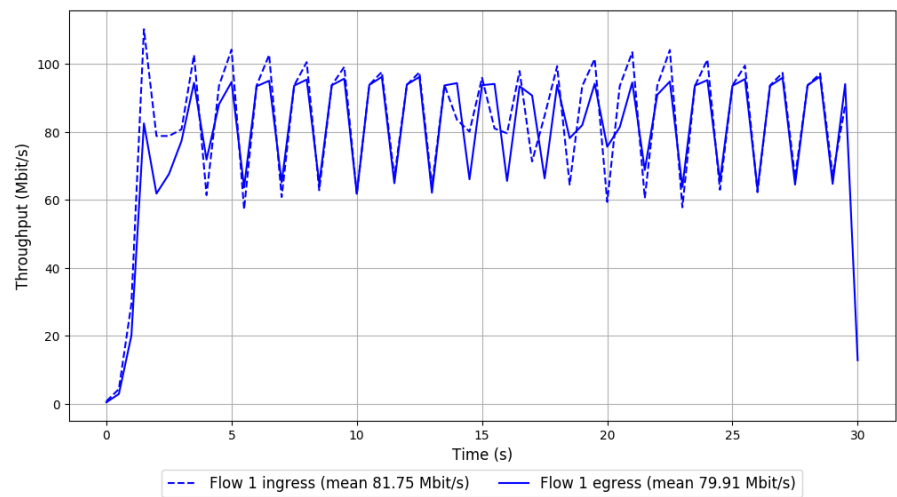
-- Flow 1:

Average throughput: 79.91 Mbit/s

95th percentile per-packet one-way delay: 131.265 ms

Loss rate: 2.25%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-04-24 10:51:23

End at: 2018-04-24 10:51:53

Local clock offset: -6.066 ms

Remote clock offset: 6.609 ms

Below is generated by plot.py at 2018-04-24 12:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 132.484 ms

Loss rate: 2.32%

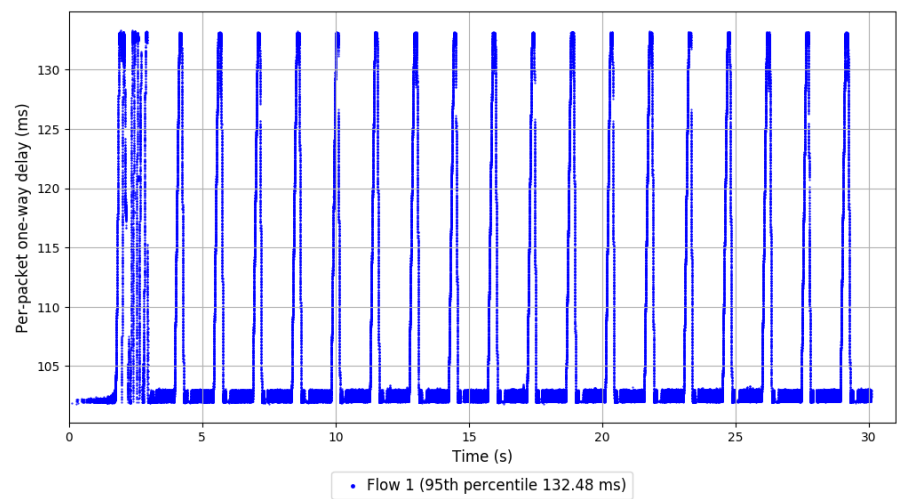
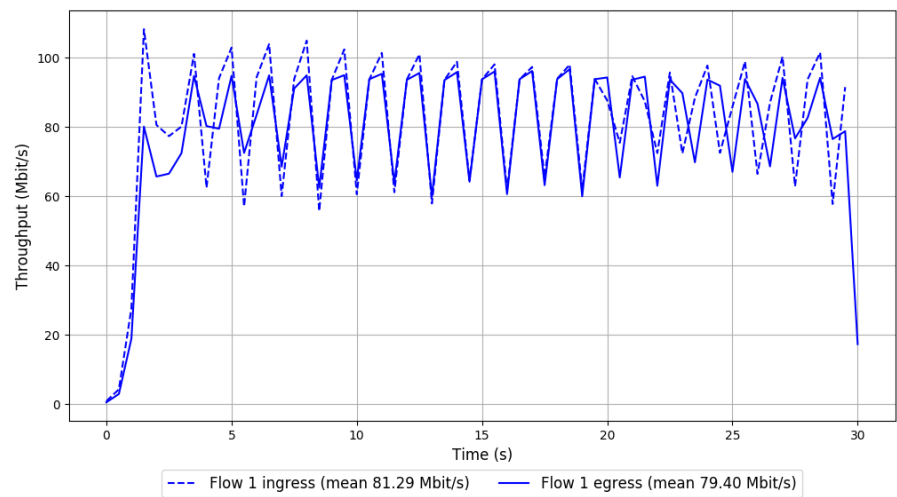
-- Flow 1:

Average throughput: 79.40 Mbit/s

95th percentile per-packet one-way delay: 132.484 ms

Loss rate: 2.32%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-04-24 11:12:32

End at: 2018-04-24 11:13:02

Local clock offset: -6.148 ms

Remote clock offset: 2.004 ms

Below is generated by plot.py at 2018-04-24 12:27:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 134.086 ms

Loss rate: 2.59%

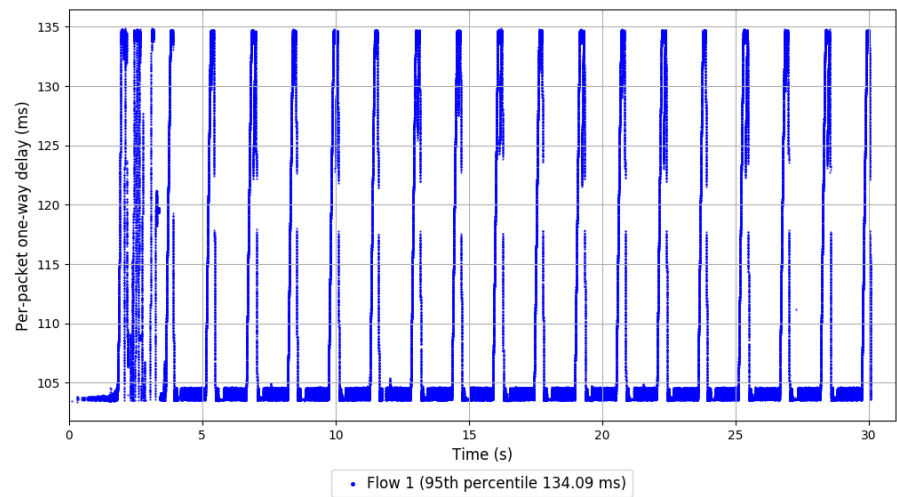
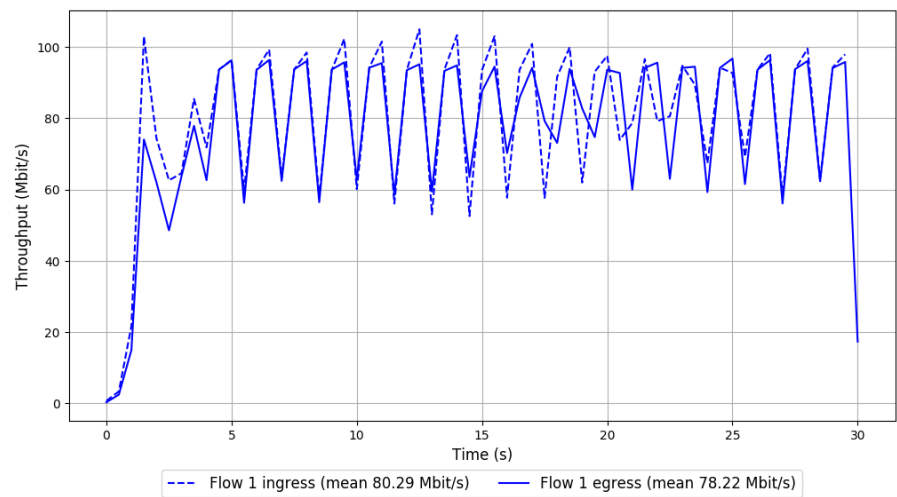
-- Flow 1:

Average throughput: 78.22 Mbit/s

95th percentile per-packet one-way delay: 134.086 ms

Loss rate: 2.59%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-04-24 11:33:42

End at: 2018-04-24 11:34:12

Local clock offset: -5.68 ms

Remote clock offset: 6.562 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 127.759 ms

Loss rate: 2.32%

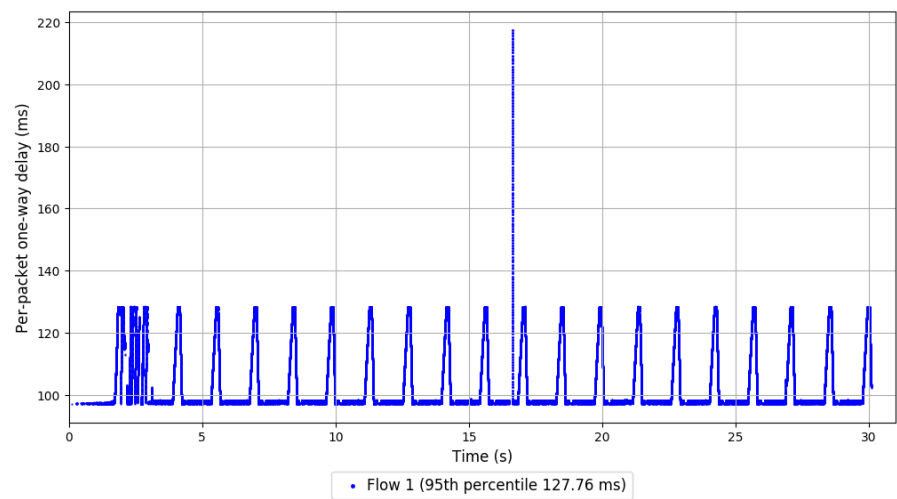
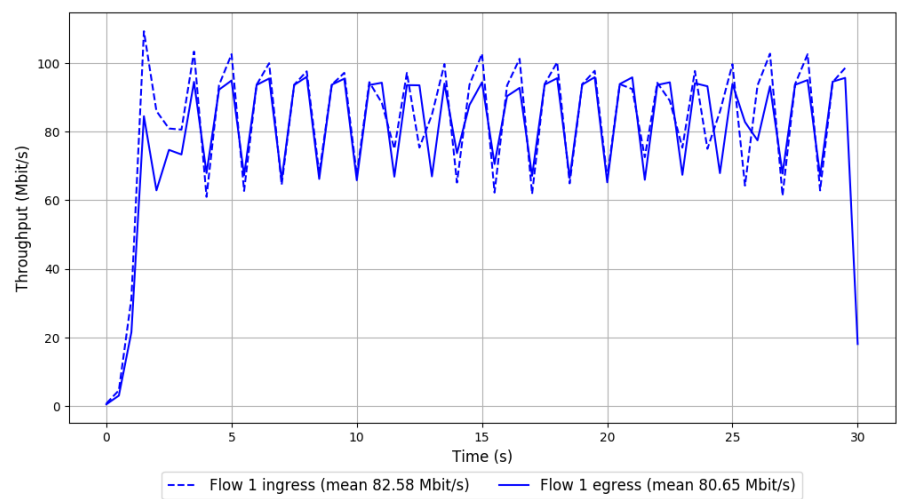
-- Flow 1:

Average throughput: 80.65 Mbit/s

95th percentile per-packet one-way delay: 127.759 ms

Loss rate: 2.32%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-04-24 11:54:47

End at: 2018-04-24 11:55:17

Local clock offset: -6.57 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 133.059 ms

Loss rate: 3.20%

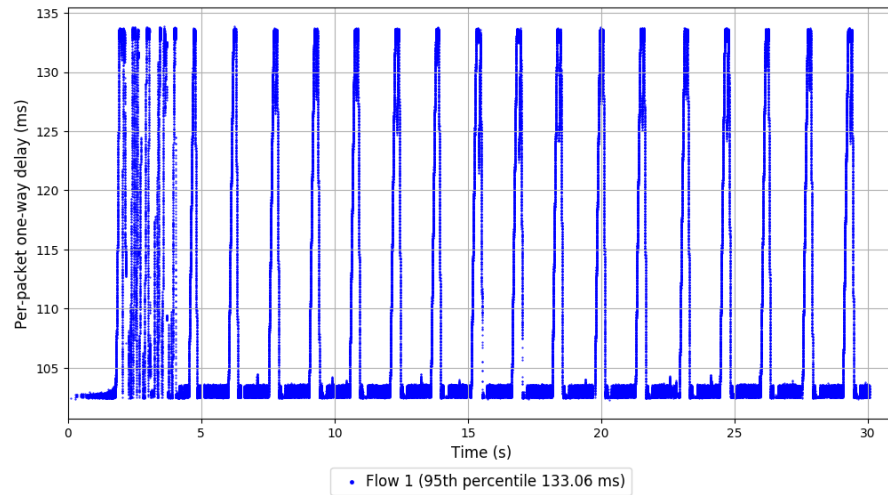
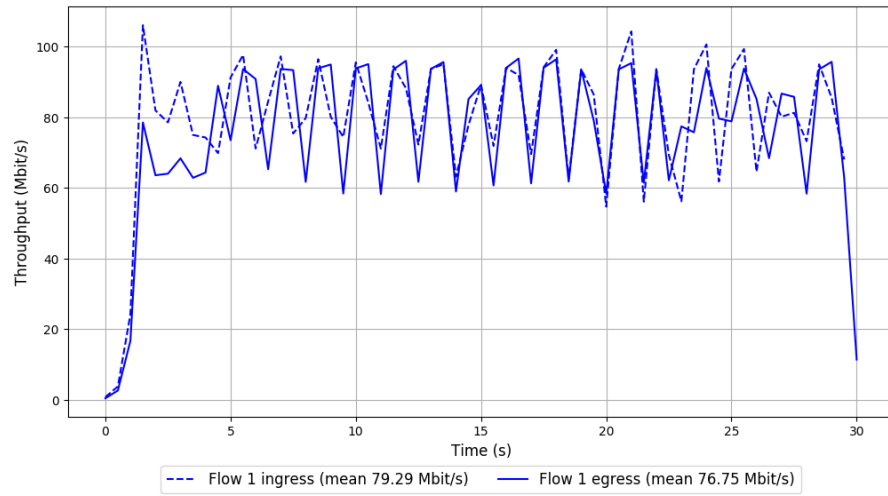
-- Flow 1:

Average throughput: 76.75 Mbit/s

95th percentile per-packet one-way delay: 133.059 ms

Loss rate: 3.20%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-04-24 08:54:22

End at: 2018-04-24 08:54:52

Local clock offset: -6.704 ms

Remote clock offset: 6.228 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.44 Mbit/s

95th percentile per-packet one-way delay: 119.545 ms

Loss rate: 0.70%

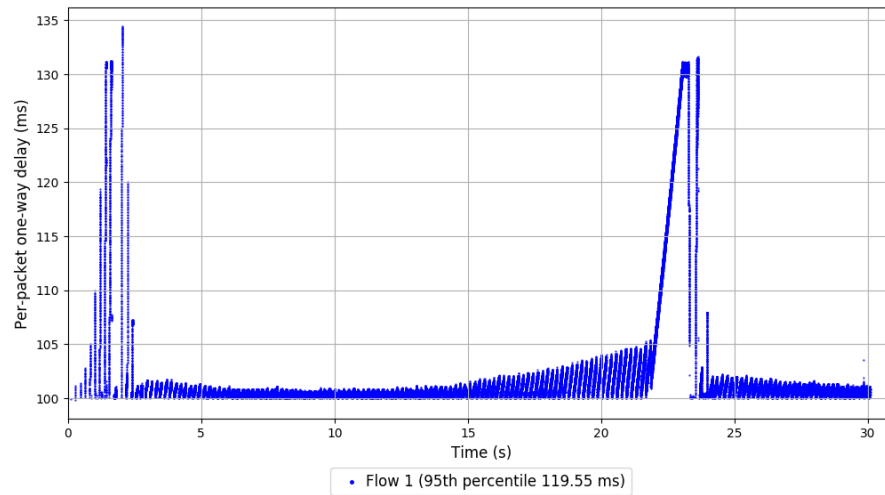
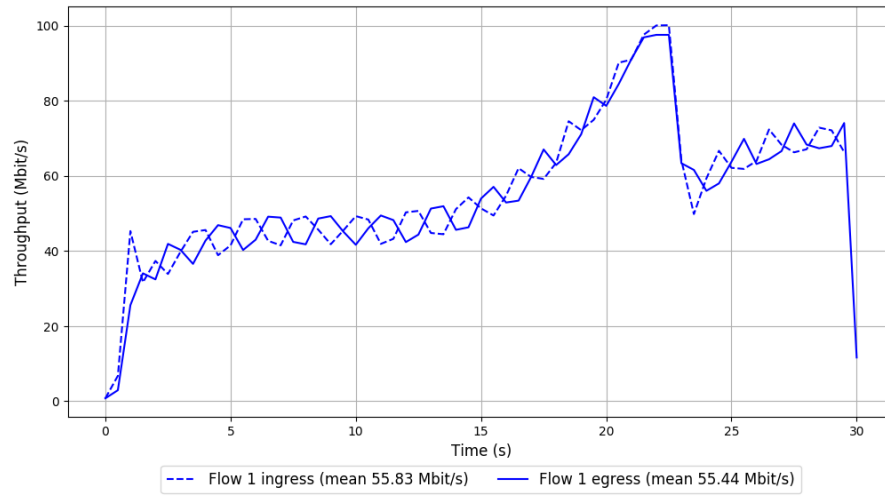
-- Flow 1:

Average throughput: 55.44 Mbit/s

95th percentile per-packet one-way delay: 119.545 ms

Loss rate: 0.70%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-04-24 09:15:25

End at: 2018-04-24 09:15:55

Local clock offset: -6.644 ms

Remote clock offset: 6.502 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 121.910 ms

Loss rate: 0.42%

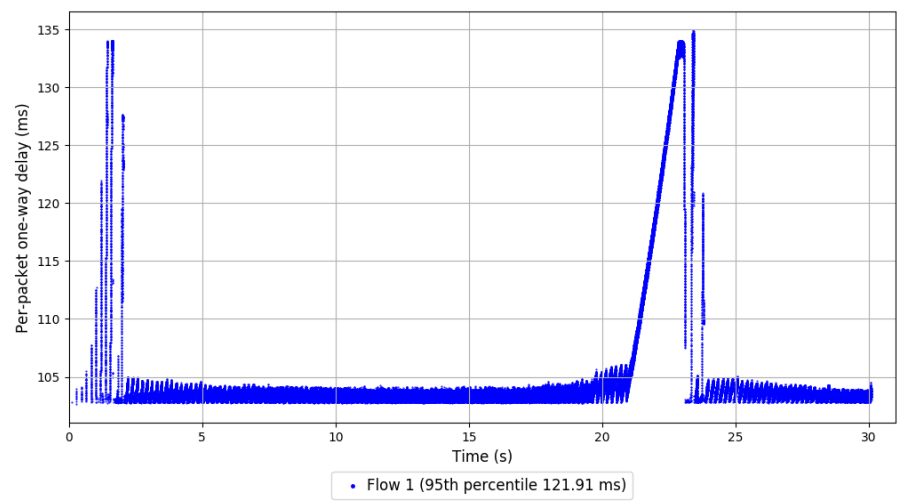
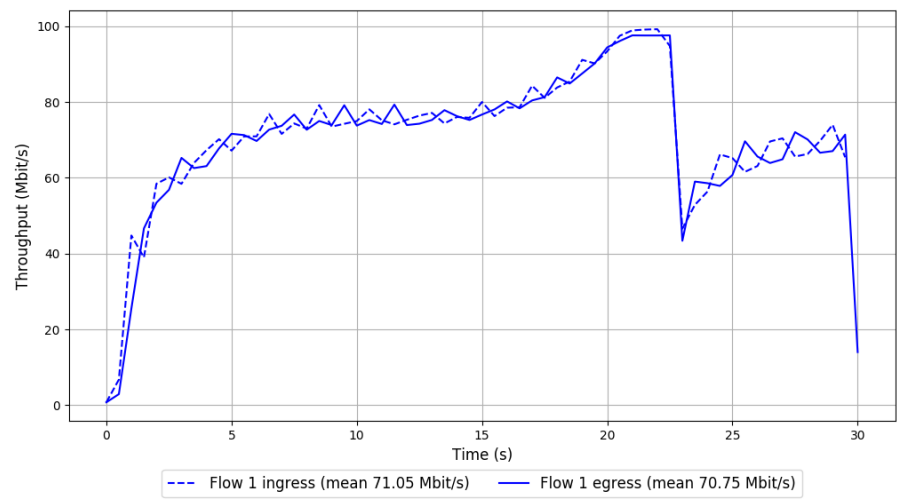
-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 121.910 ms

Loss rate: 0.42%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-04-24 09:36:31

End at: 2018-04-24 09:37:01

Local clock offset: -6.683 ms

Remote clock offset: 5.623 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.72 Mbit/s

95th percentile per-packet one-way delay: 119.016 ms

Loss rate: 0.29%

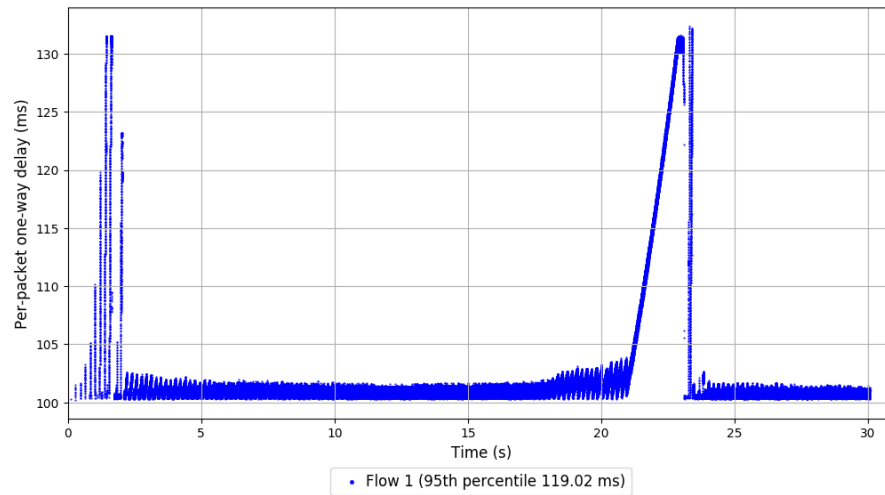
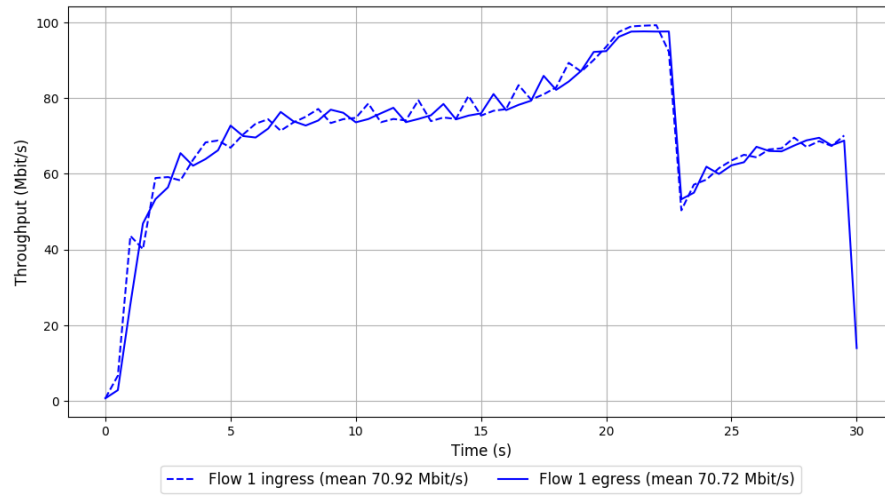
-- Flow 1:

Average throughput: 70.72 Mbit/s

95th percentile per-packet one-way delay: 119.016 ms

Loss rate: 0.29%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-04-24 09:57:32

End at: 2018-04-24 09:58:02

Local clock offset: -5.839 ms

Remote clock offset: 2.452 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 118.387 ms

Loss rate: 0.43%

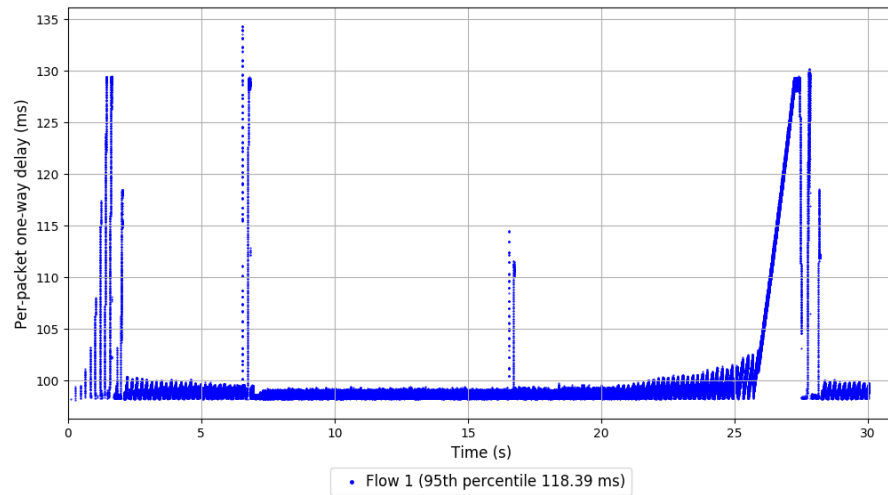
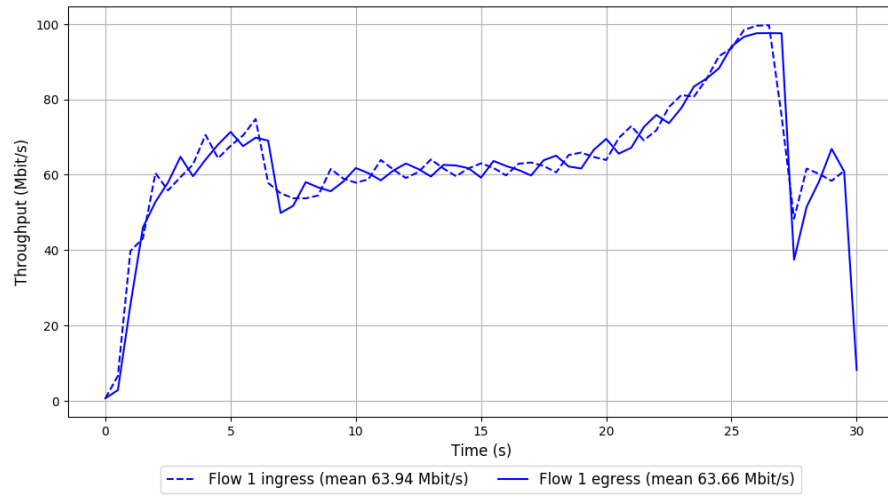
-- Flow 1:

Average throughput: 63.66 Mbit/s

95th percentile per-packet one-way delay: 118.387 ms

Loss rate: 0.43%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-04-24 10:18:33

End at: 2018-04-24 10:19:03

Local clock offset: -7.802 ms

Remote clock offset: 5.297 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 123.434 ms

Loss rate: 0.36%

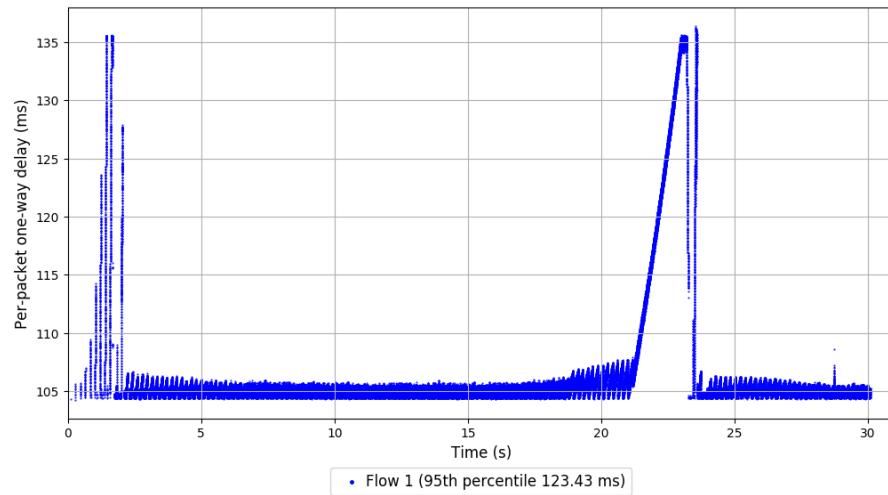
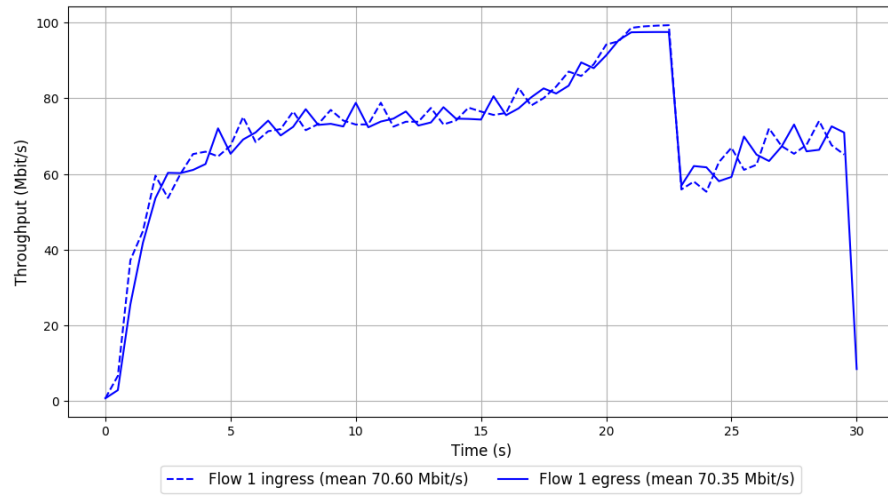
-- Flow 1:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 123.434 ms

Loss rate: 0.36%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-04-24 10:39:20

End at: 2018-04-24 10:39:50

Local clock offset: -7.396 ms

Remote clock offset: 2.766 ms

Below is generated by plot.py at 2018-04-24 12:28:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 116.716 ms

Loss rate: 0.70%

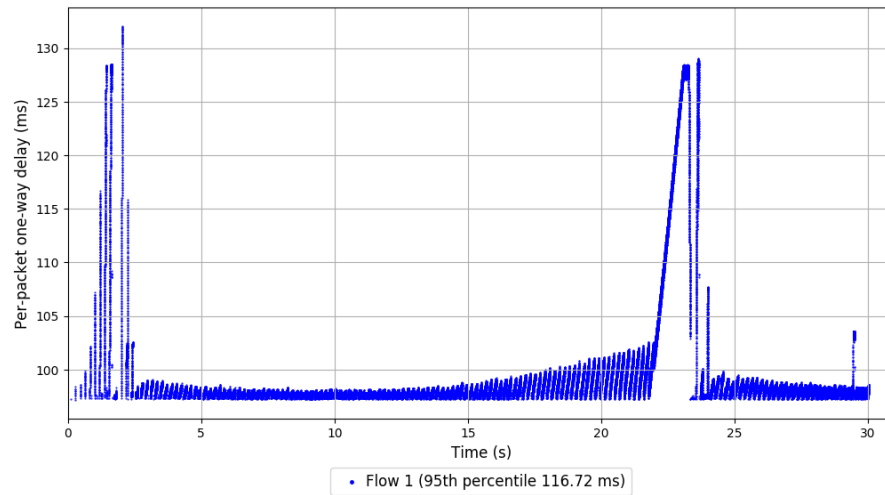
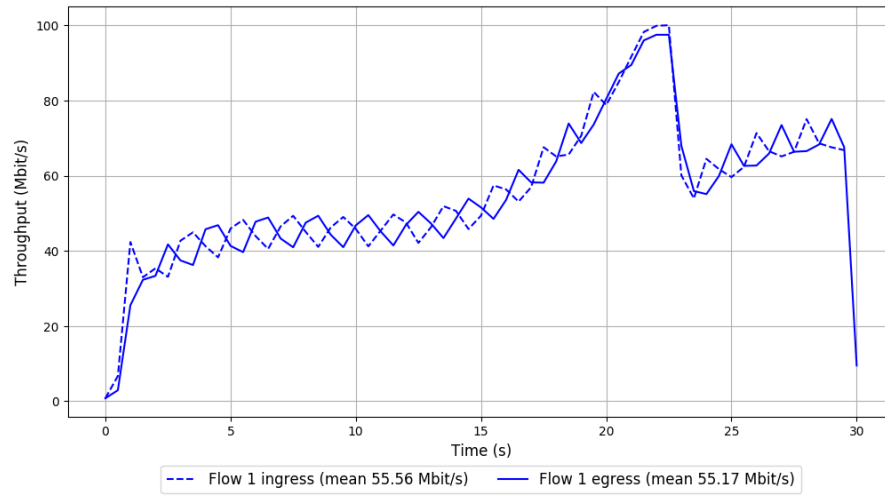
-- Flow 1:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 116.716 ms

Loss rate: 0.70%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-04-24 11:00:25

End at: 2018-04-24 11:00:55

Local clock offset: -7.12 ms

Remote clock offset: 2.882 ms

Below is generated by plot.py at 2018-04-24 12:29:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 117.471 ms

Loss rate: 0.27%

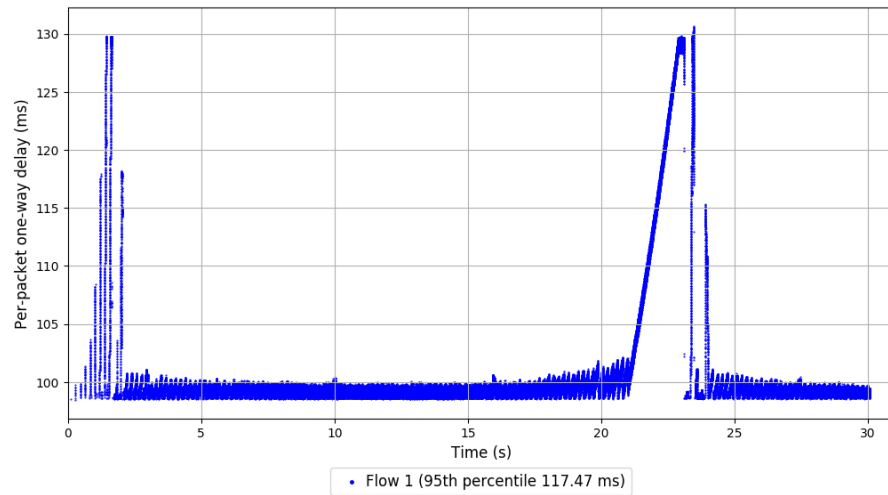
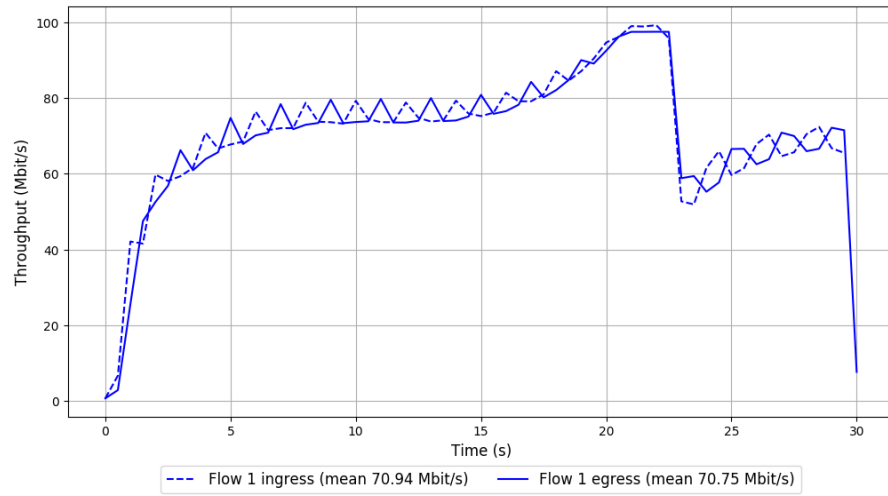
-- Flow 1:

Average throughput: 70.75 Mbit/s

95th percentile per-packet one-way delay: 117.471 ms

Loss rate: 0.27%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-04-24 11:21:36

End at: 2018-04-24 11:22:06

Local clock offset: -5.419 ms

Remote clock offset: 5.709 ms

Below is generated by plot.py at 2018-04-24 12:29:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 116.654 ms

Loss rate: 0.38%

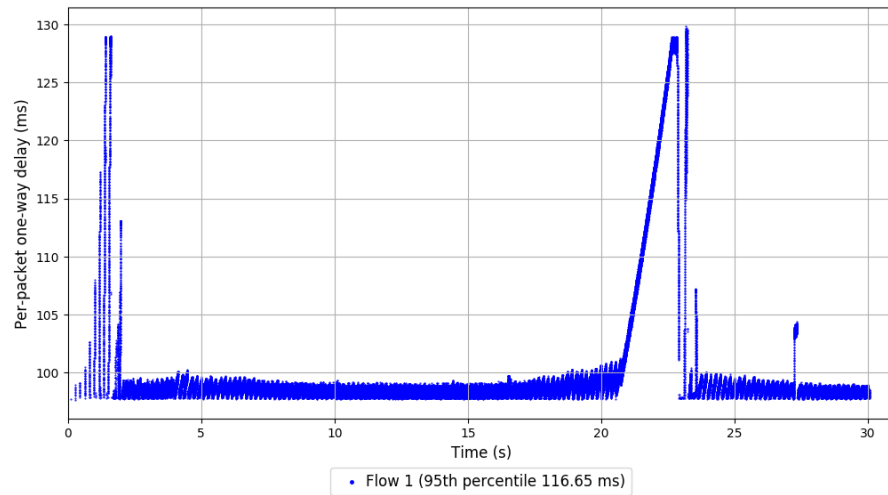
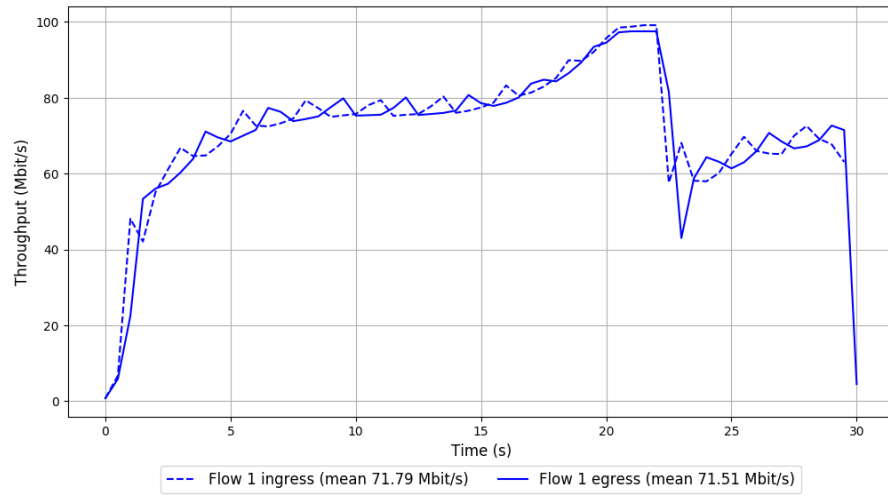
-- Flow 1:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 116.654 ms

Loss rate: 0.38%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-04-24 11:42:43

End at: 2018-04-24 11:43:13

Local clock offset: -5.761 ms

Remote clock offset: 6.368 ms

Below is generated by plot.py at 2018-04-24 12:29:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 102.952 ms

Loss rate: 0.25%

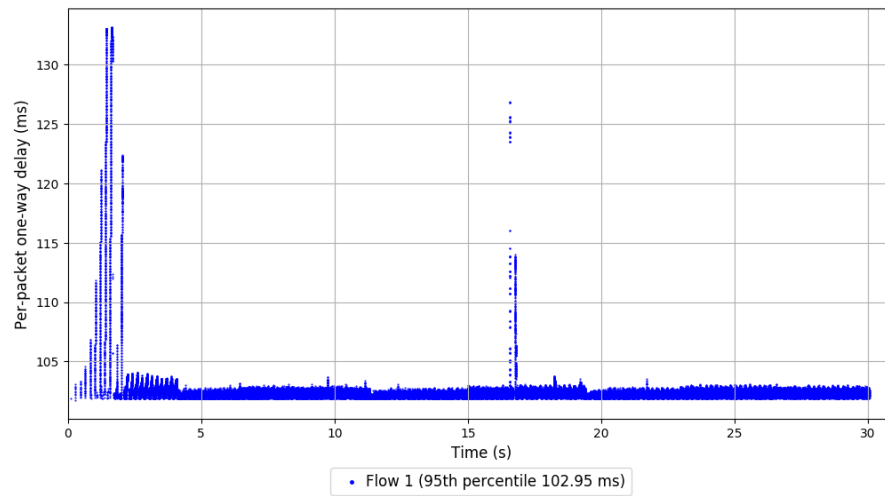
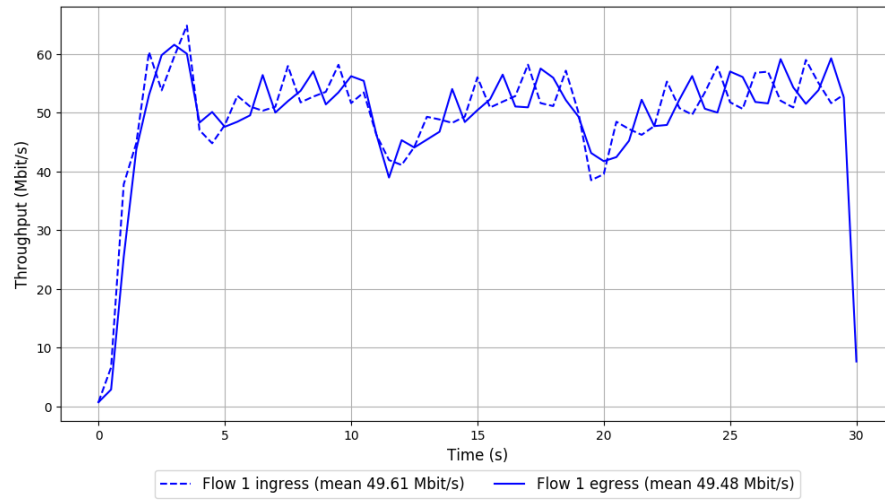
-- Flow 1:

Average throughput: 49.48 Mbit/s

95th percentile per-packet one-way delay: 102.952 ms

Loss rate: 0.25%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-04-24 12:03:49

End at: 2018-04-24 12:04:19

Local clock offset: -6.165 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.80 Mbit/s

95th percentile per-packet one-way delay: 99.629 ms

Loss rate: 0.19%

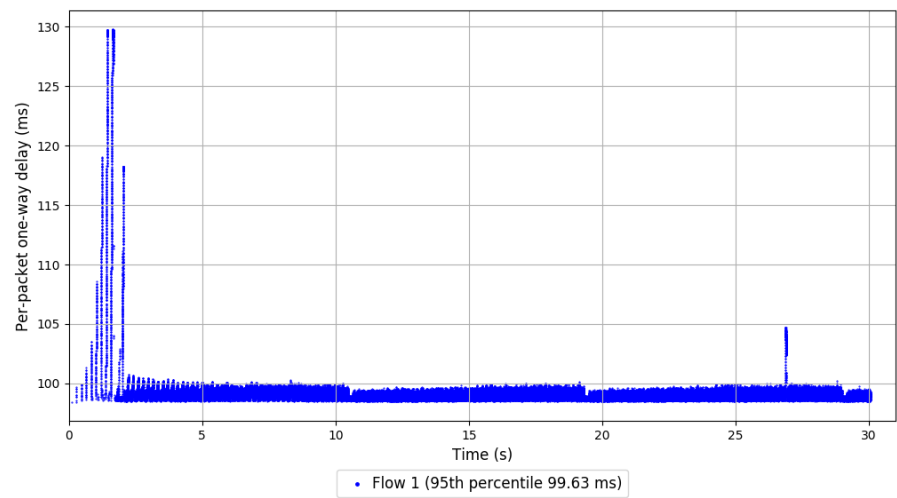
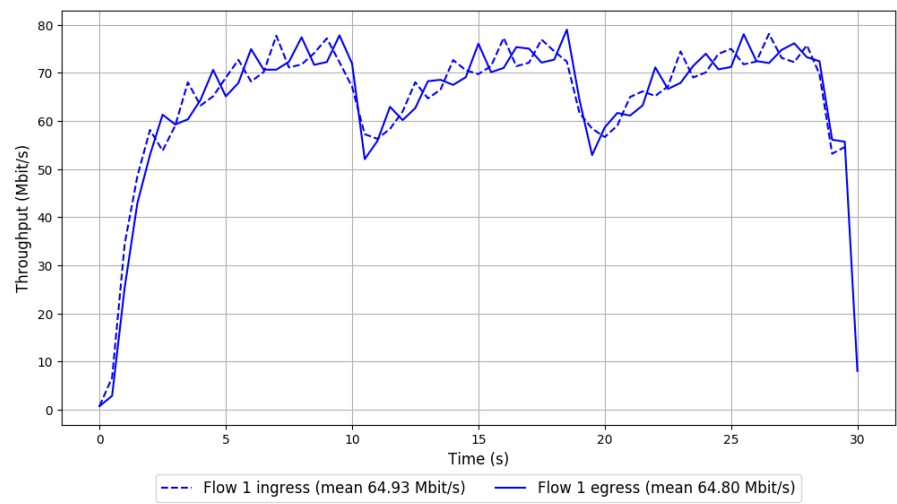
-- Flow 1:

Average throughput: 64.80 Mbit/s

95th percentile per-packet one-way delay: 99.629 ms

Loss rate: 0.19%

Run 10: Report of TCP Cubic — Data Link

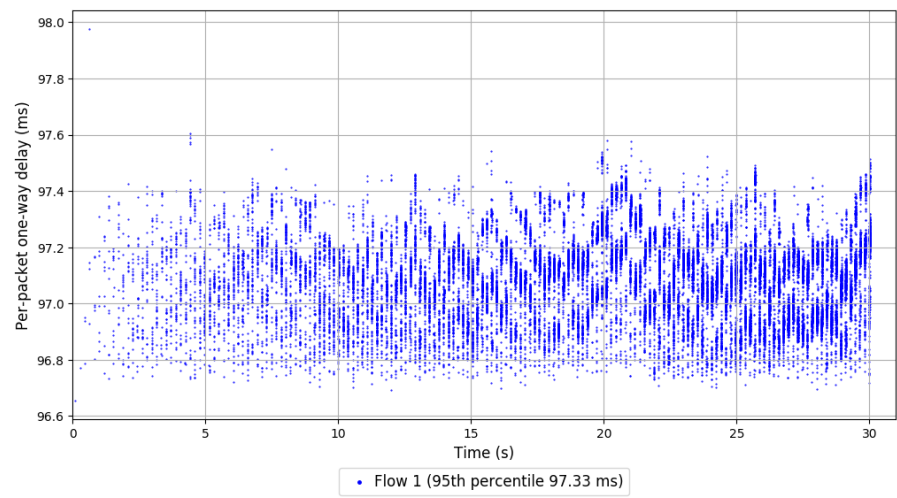
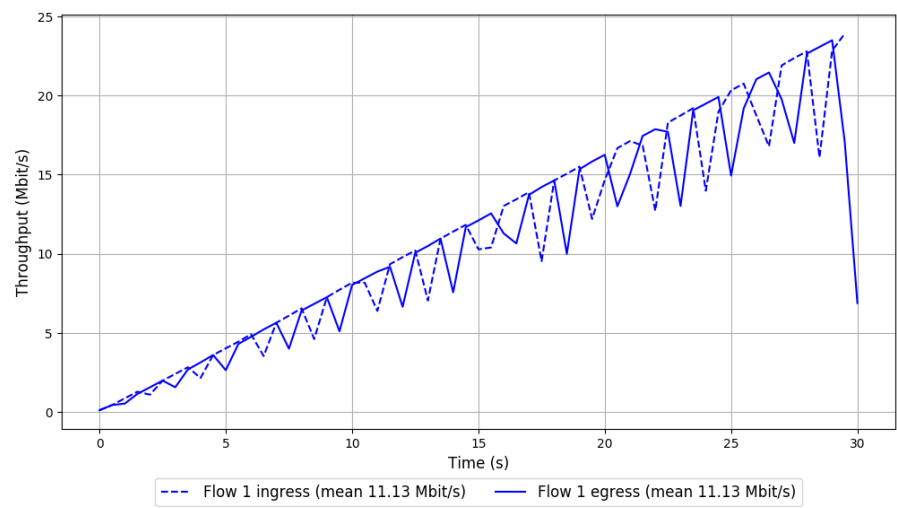


```
Run 1: Statistics of LEDBAT

Start at: 2018-04-24 08:41:51
End at: 2018-04-24 08:42:21
Local clock offset: -6.909 ms
Remote clock offset: 3.424 ms

# Below is generated by plot.py at 2018-04-24 12:29:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 97.335 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 11.13 Mbit/s
95th percentile per-packet one-way delay: 97.335 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-04-24 09:02:54

End at: 2018-04-24 09:03:24

Local clock offset: -7.555 ms

Remote clock offset: 2.063 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 96.626 ms

Loss rate: 0.00%

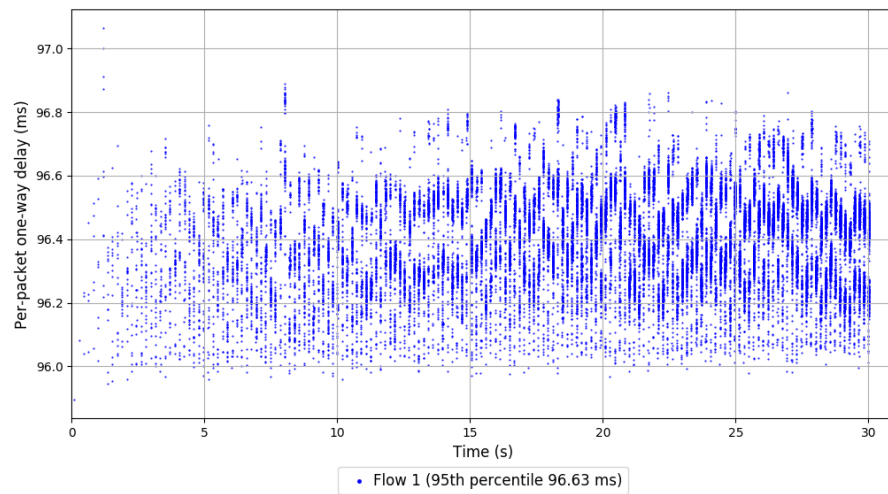
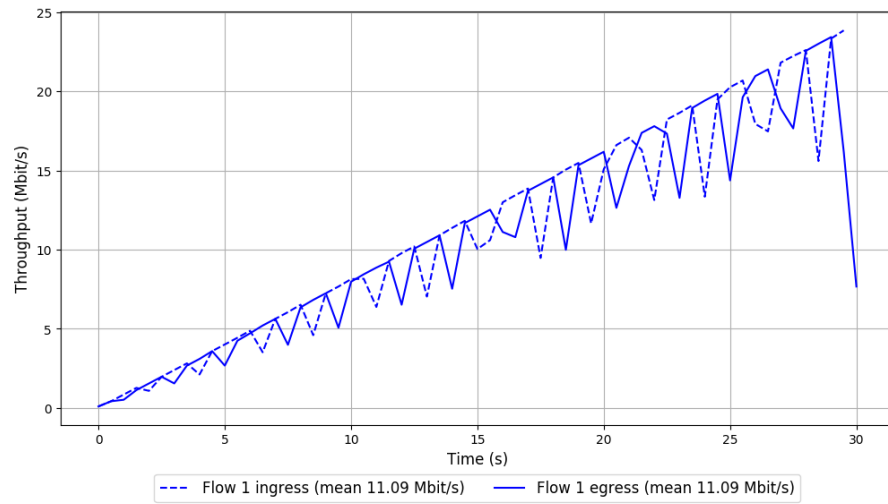
-- Flow 1:

Average throughput: 11.09 Mbit/s

95th percentile per-packet one-way delay: 96.626 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-04-24 09:24:00

End at: 2018-04-24 09:24:30

Local clock offset: -6.684 ms

Remote clock offset: 5.542 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 101.138 ms

Loss rate: 0.00%

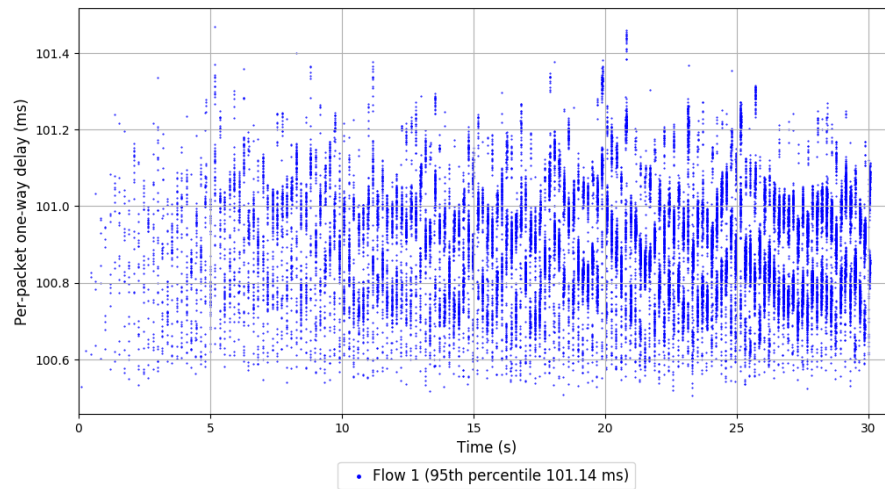
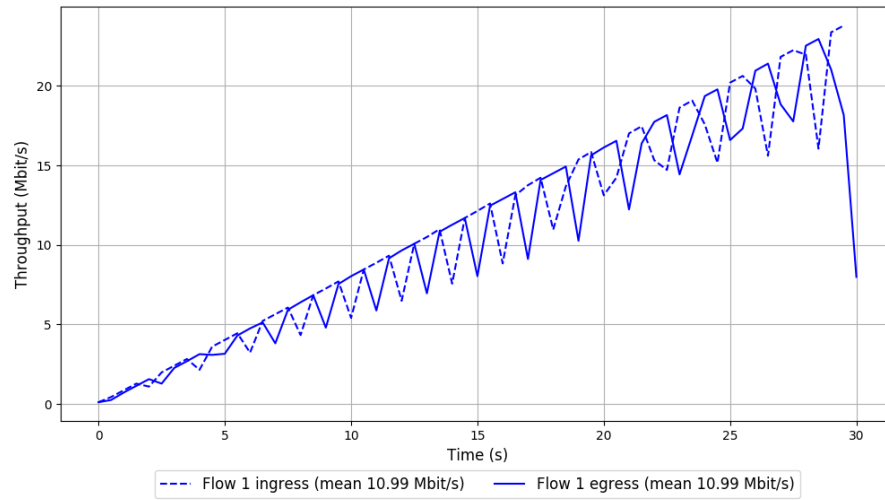
-- Flow 1:

Average throughput: 10.99 Mbit/s

95th percentile per-packet one-way delay: 101.138 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-04-24 09:45:02

End at: 2018-04-24 09:45:32

Local clock offset: -6.624 ms

Remote clock offset: 6.349 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 101.916 ms

Loss rate: 0.00%

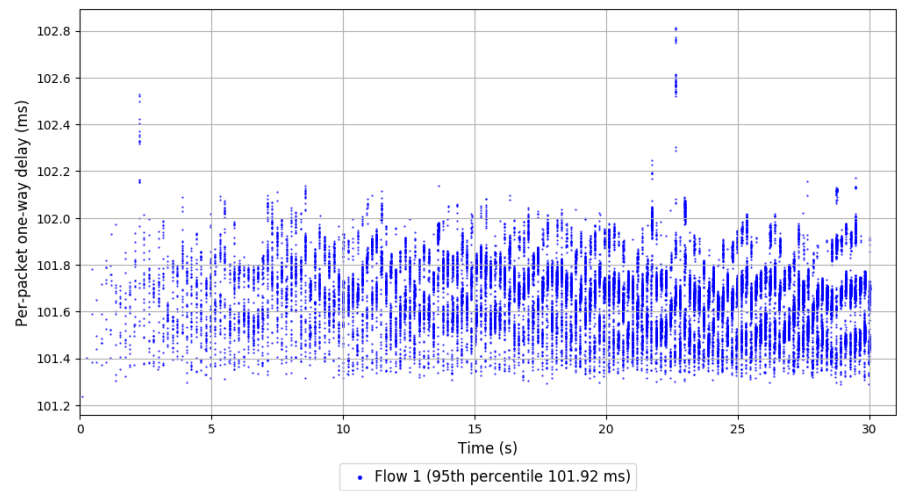
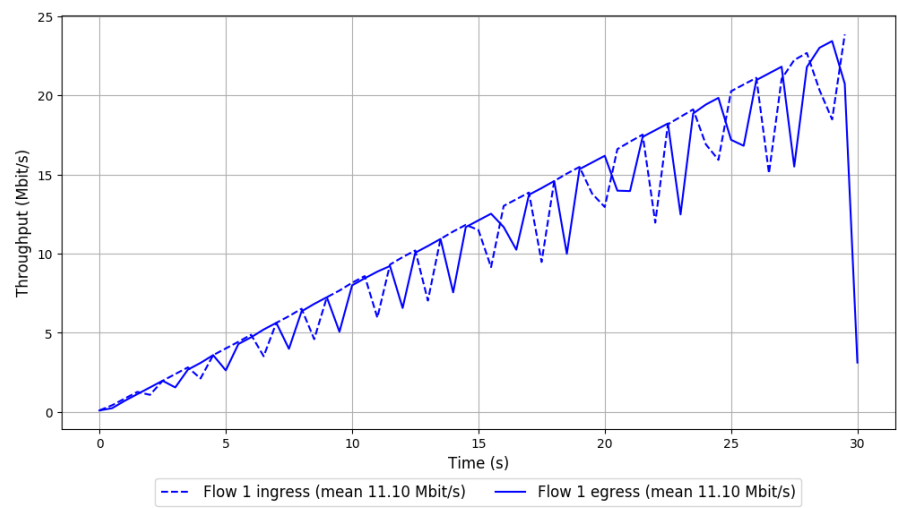
-- Flow 1:

Average throughput: 11.10 Mbit/s

95th percentile per-packet one-way delay: 101.916 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-04-24 10:06:03

End at: 2018-04-24 10:06:33

Local clock offset: -6.592 ms

Remote clock offset: 1.589 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 98.862 ms

Loss rate: 0.01%

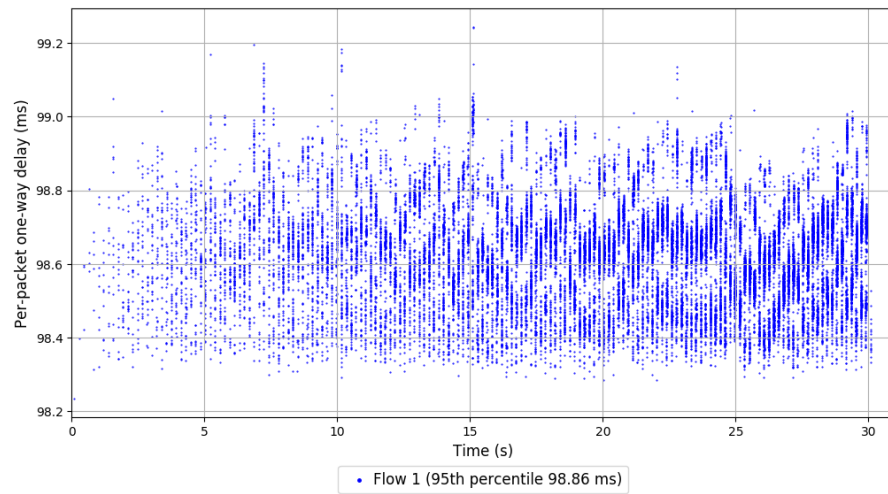
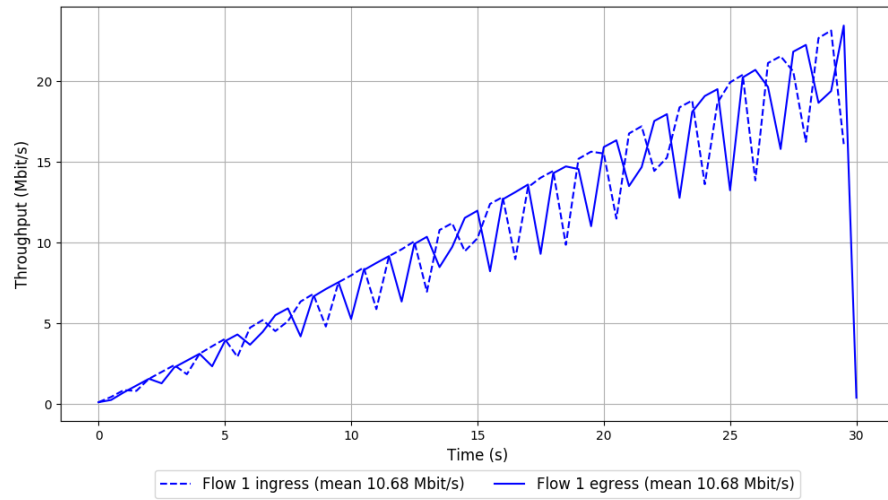
-- Flow 1:

Average throughput: 10.68 Mbit/s

95th percentile per-packet one-way delay: 98.862 ms

Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-04-24 10:27:05

End at: 2018-04-24 10:27:35

Local clock offset: -6.441 ms

Remote clock offset: 2.295 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 94.287 ms

Loss rate: 0.00%

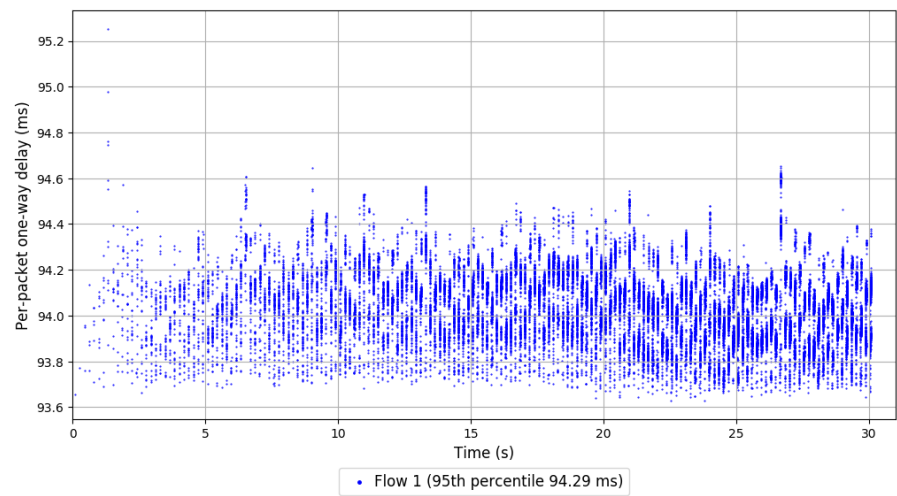
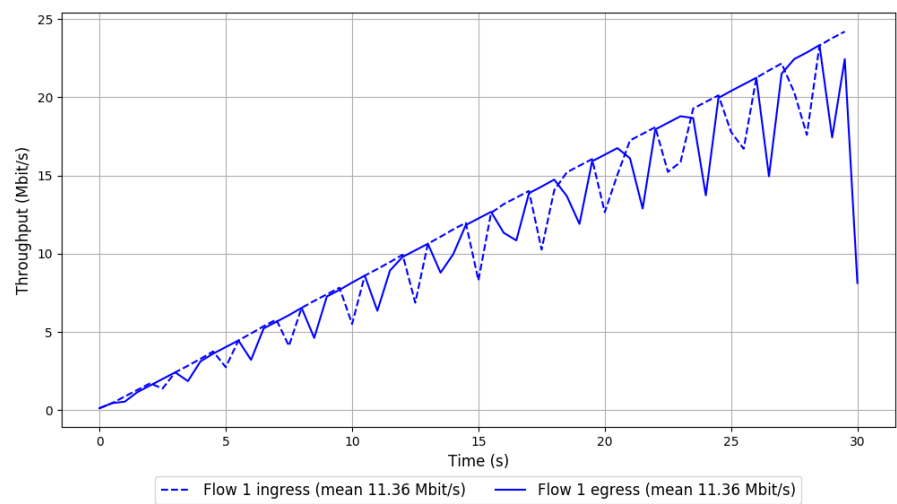
-- Flow 1:

Average throughput: 11.36 Mbit/s

95th percentile per-packet one-way delay: 94.287 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-04-24 10:47:52

End at: 2018-04-24 10:48:22

Local clock offset: -7.18 ms

Remote clock offset: 2.026 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 97.130 ms

Loss rate: 0.00%

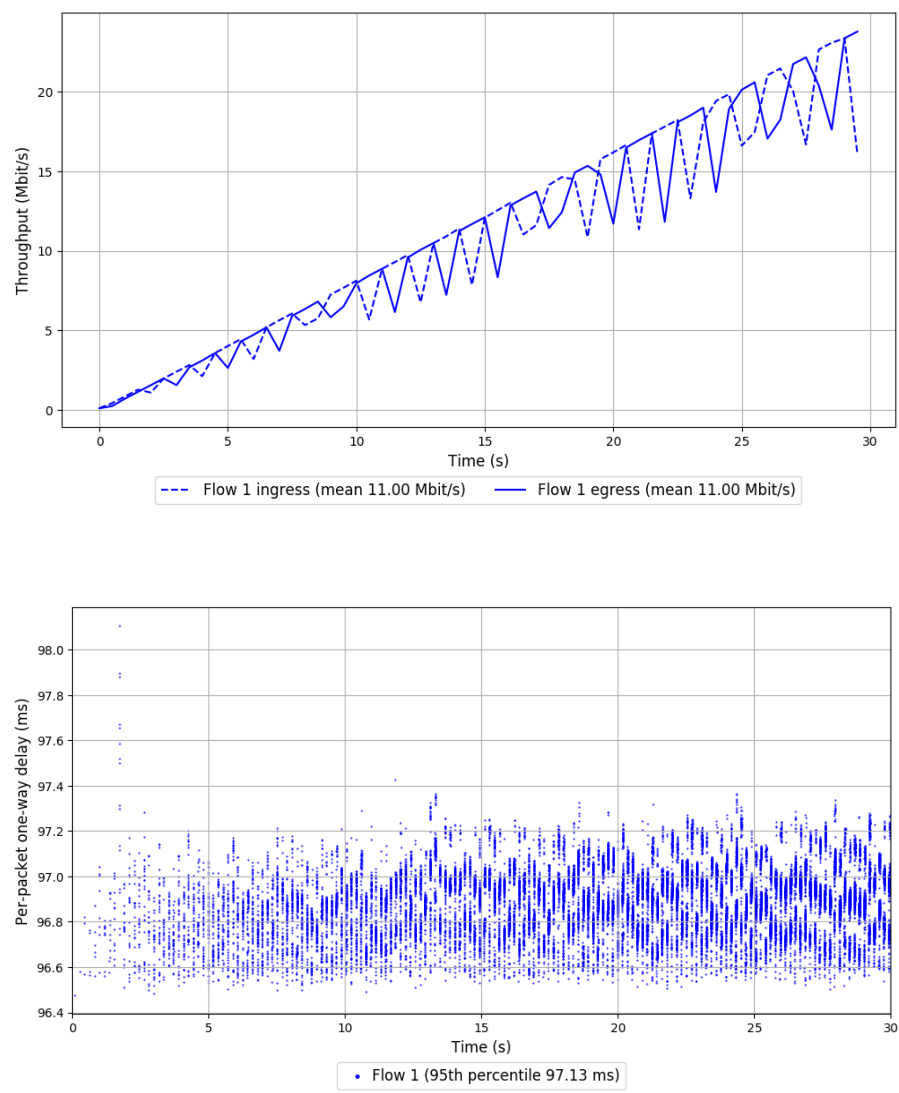
-- Flow 1:

Average throughput: 11.00 Mbit/s

95th percentile per-packet one-way delay: 97.130 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-04-24 11:09:01

End at: 2018-04-24 11:09:31

Local clock offset: -6.212 ms

Remote clock offset: 1.986 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 95.666 ms

Loss rate: 0.00%

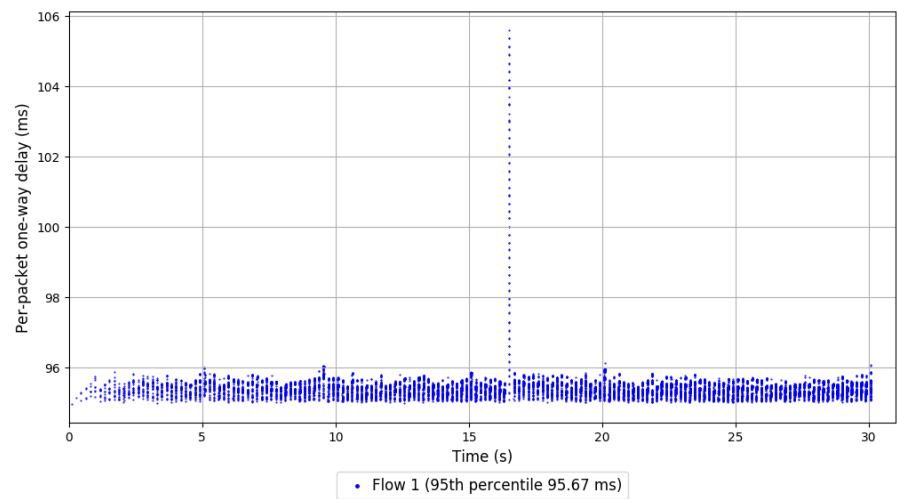
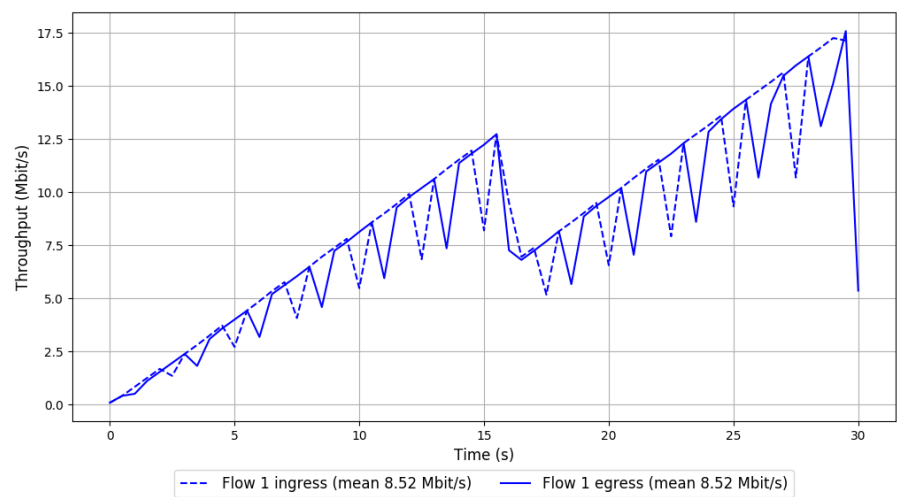
-- Flow 1:

Average throughput: 8.52 Mbit/s

95th percentile per-packet one-way delay: 95.666 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

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

End at: 2018-04-24 11:30:40

Local clock offset: -6.38 ms

Remote clock offset: 2.839 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 97.889 ms

Loss rate: 0.00%

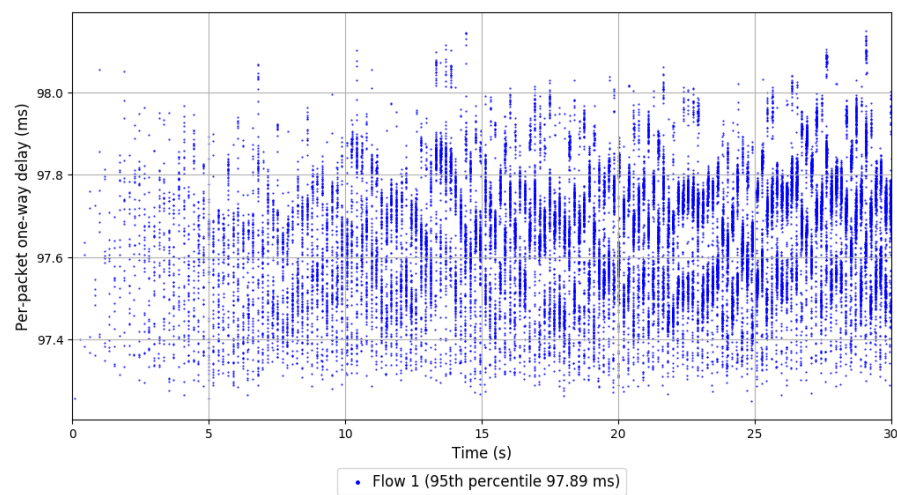
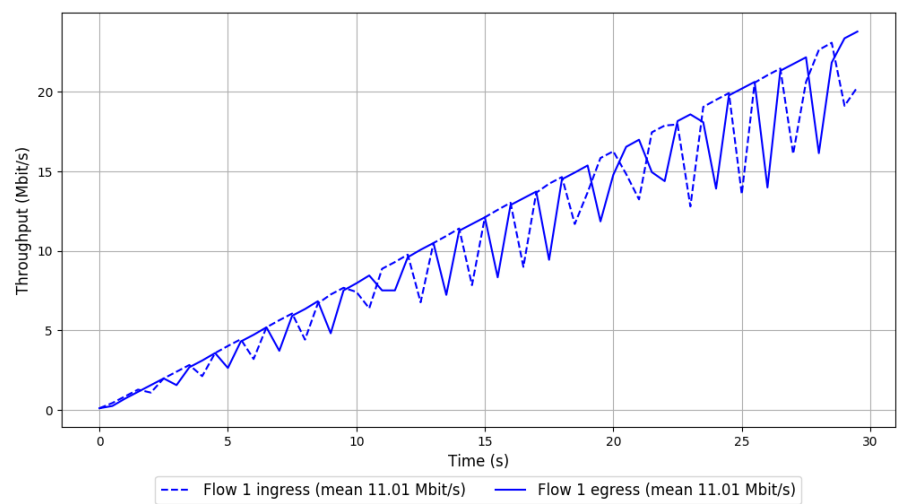
-- Flow 1:

Average throughput: 11.01 Mbit/s

95th percentile per-packet one-way delay: 97.889 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-04-24 11:51:16

End at: 2018-04-24 11:51:46

Local clock offset: -5.787 ms

Remote clock offset: 2.462 ms

Below is generated by plot.py at 2018-04-24 12:29:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 97.380 ms

Loss rate: 0.05%

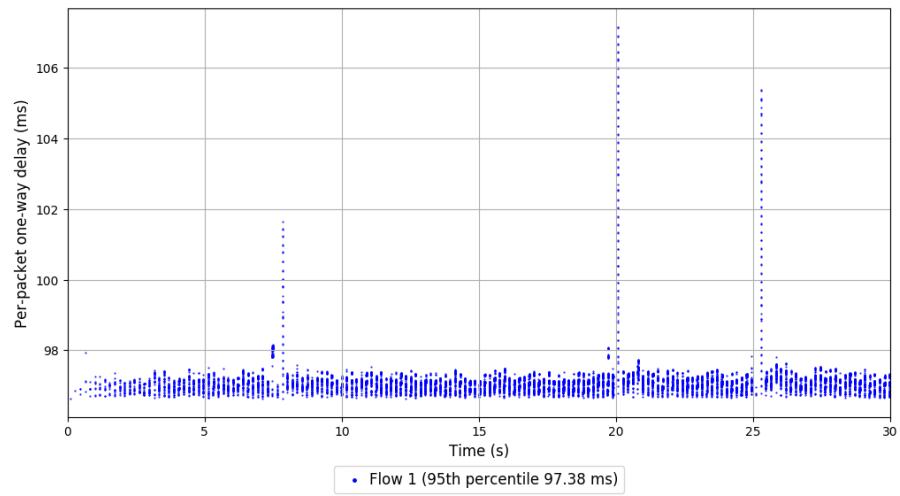
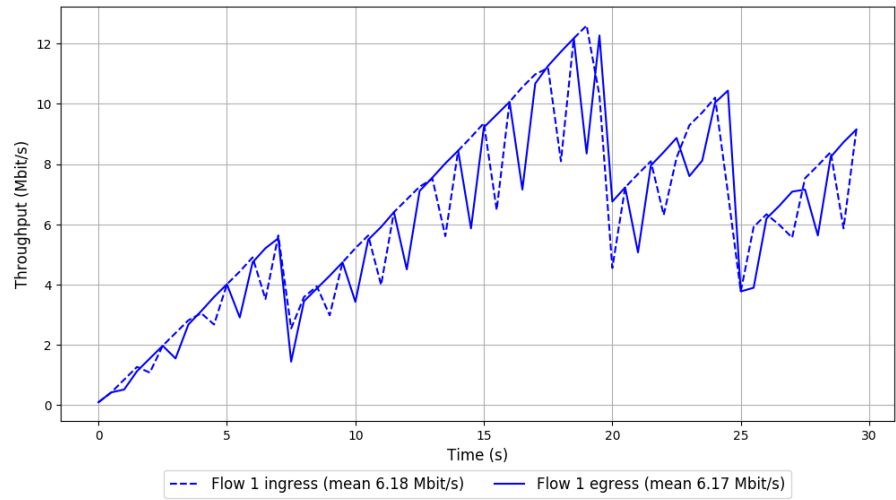
-- Flow 1:

Average throughput: 6.17 Mbit/s

95th percentile per-packet one-way delay: 97.380 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-04-24 08:50:24

End at: 2018-04-24 08:50:54

Local clock offset: -6.682 ms

Remote clock offset: 7.396 ms

Below is generated by plot.py at 2018-04-24 12:30:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 118.330 ms

Loss rate: 1.49%

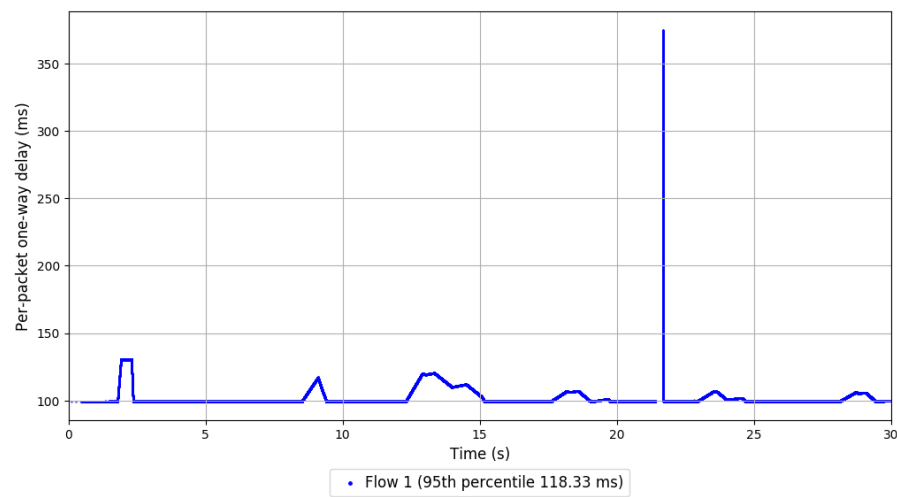
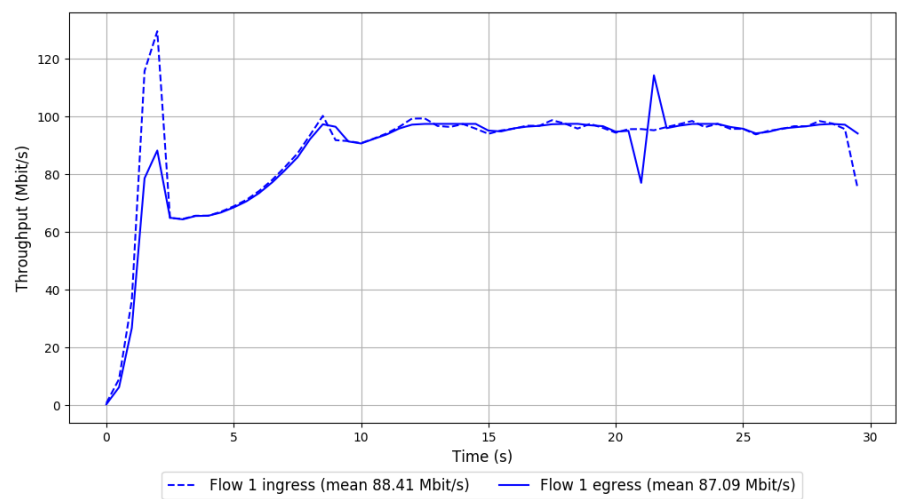
-- Flow 1:

Average throughput: 87.09 Mbit/s

95th percentile per-packet one-way delay: 118.330 ms

Loss rate: 1.49%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-04-24 09:11:26

End at: 2018-04-24 09:11:56

Local clock offset: -5.855 ms

Remote clock offset: 2.749 ms

Below is generated by plot.py at 2018-04-24 12:30:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 103.586 ms

Loss rate: 1.53%

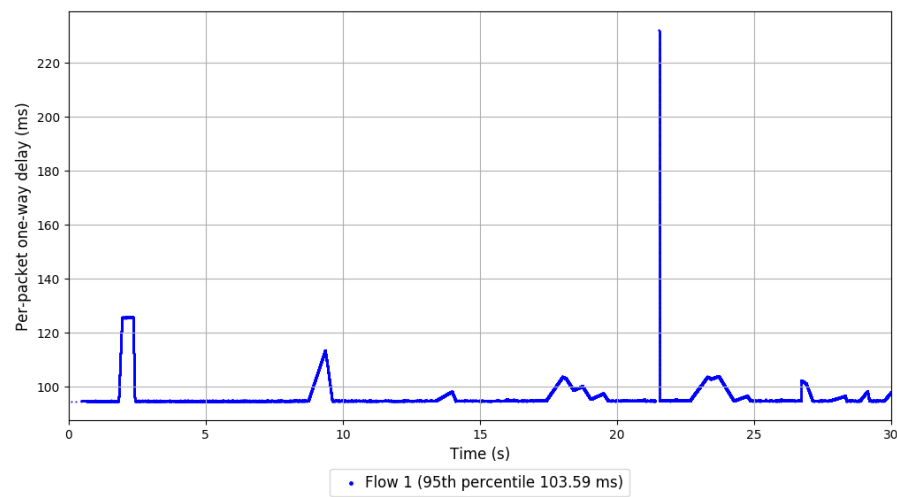
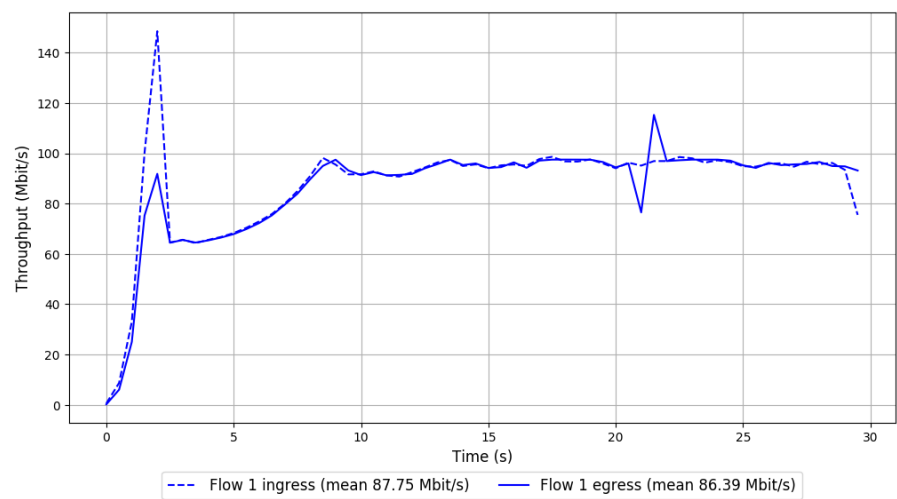
-- Flow 1:

Average throughput: 86.39 Mbit/s

95th percentile per-packet one-way delay: 103.586 ms

Loss rate: 1.53%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-04-24 09:32:32

End at: 2018-04-24 09:33:03

Local clock offset: -7.471 ms

Remote clock offset: 6.469 ms

Below is generated by plot.py at 2018-04-24 12:30:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 115.734 ms

Loss rate: 1.53%

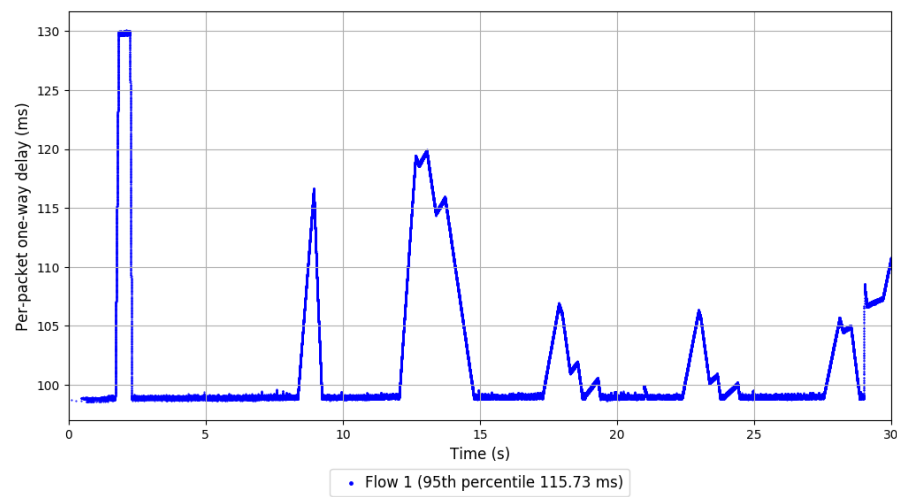
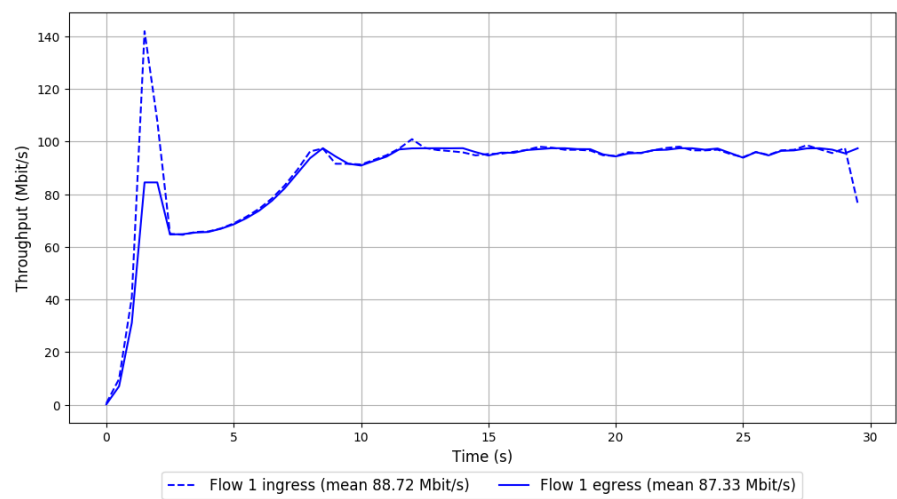
-- Flow 1:

Average throughput: 87.33 Mbit/s

95th percentile per-packet one-way delay: 115.734 ms

Loss rate: 1.53%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-04-24 09:53:34

End at: 2018-04-24 09:54:04

Local clock offset: -6.591 ms

Remote clock offset: 2.399 ms

Below is generated by plot.py at 2018-04-24 12:30:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 122.313 ms

Loss rate: 1.63%

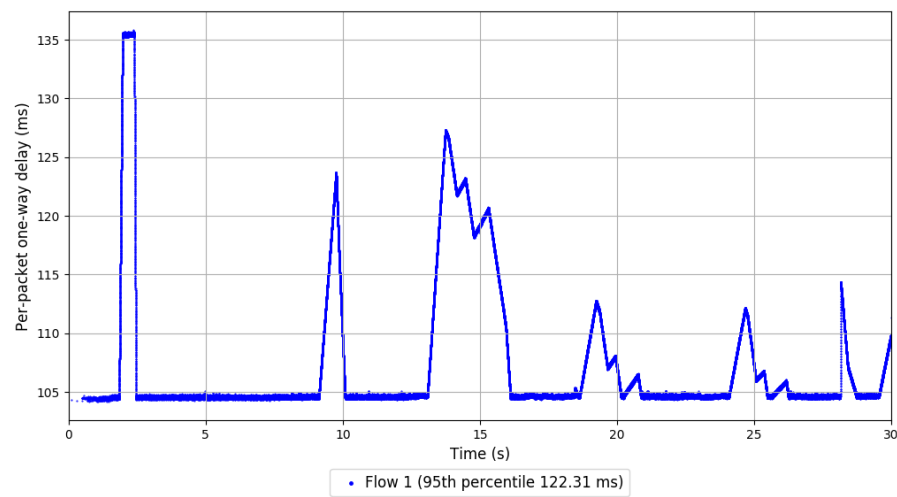
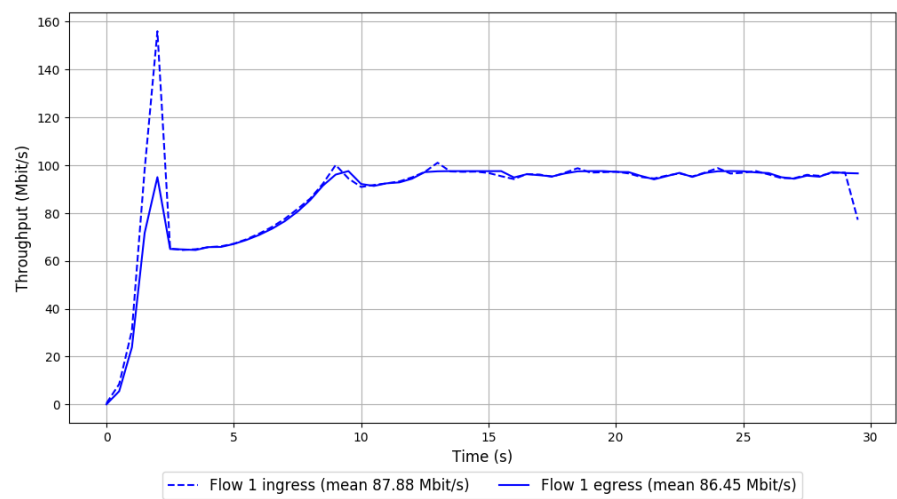
-- Flow 1:

Average throughput: 86.45 Mbit/s

95th percentile per-packet one-way delay: 122.313 ms

Loss rate: 1.63%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-04-24 10:14:35

End at: 2018-04-24 10:15:05

Local clock offset: -6.025 ms

Remote clock offset: 2.358 ms

Below is generated by plot.py at 2018-04-24 12:31:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 103.047 ms

Loss rate: 1.52%

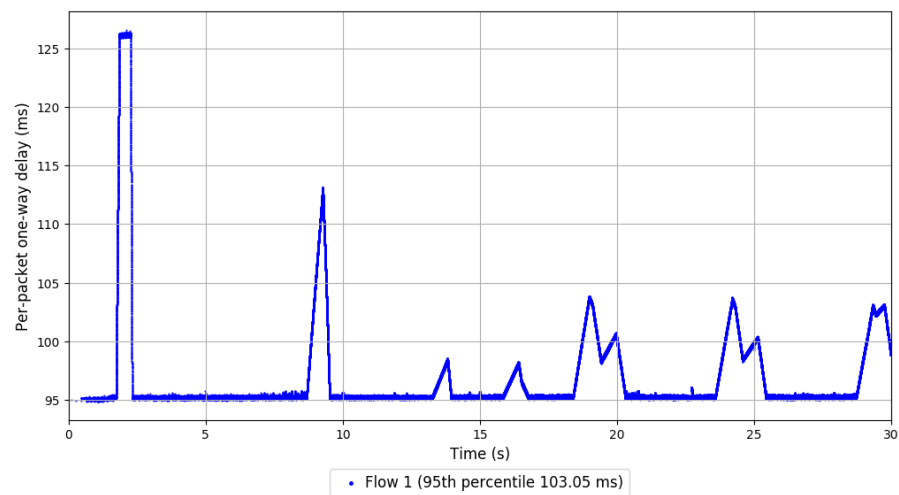
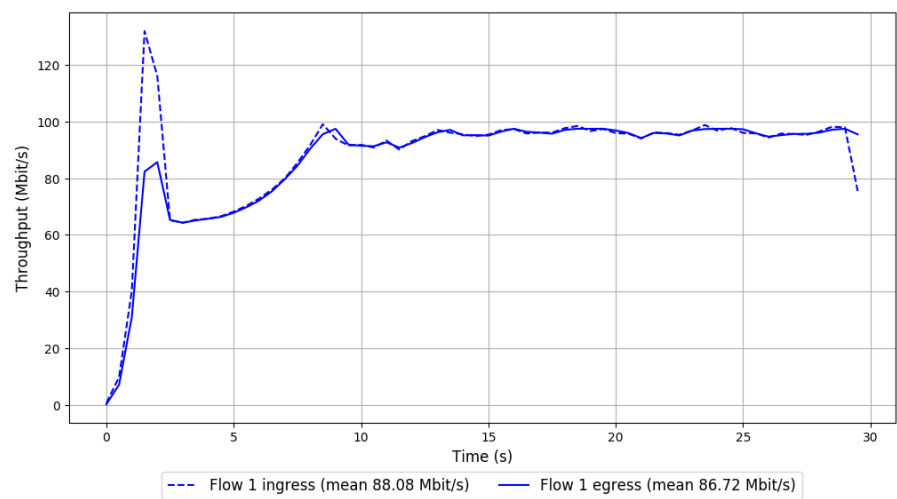
-- Flow 1:

Average throughput: 86.72 Mbit/s

95th percentile per-packet one-way delay: 103.047 ms

Loss rate: 1.52%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-04-24 10:35:37

End at: 2018-04-24 10:36:07

Local clock offset: -7.328 ms

Remote clock offset: 6.542 ms

Below is generated by plot.py at 2018-04-24 12:31:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 115.868 ms

Loss rate: 1.61%

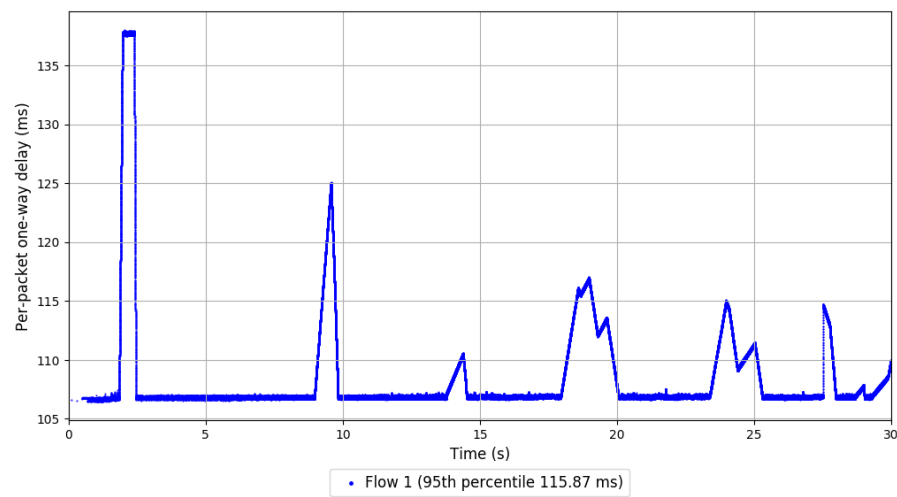
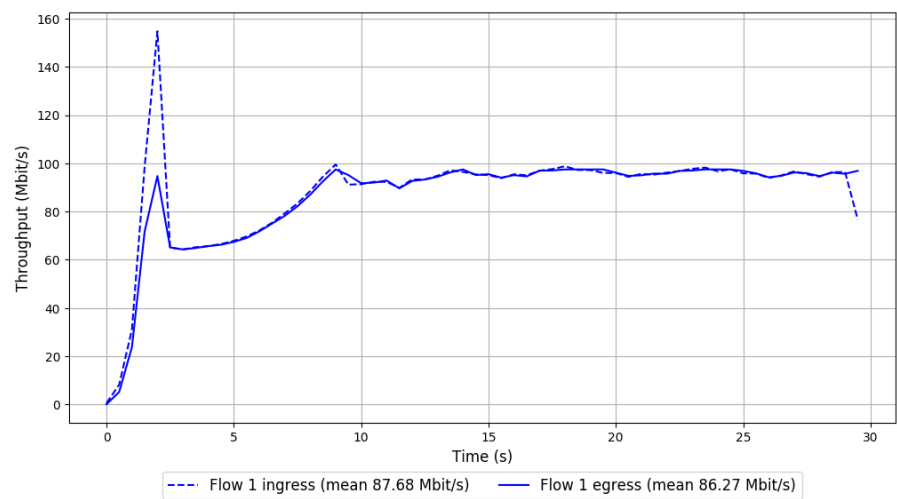
-- Flow 1:

Average throughput: 86.27 Mbit/s

95th percentile per-packet one-way delay: 115.868 ms

Loss rate: 1.61%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-04-24 10:56:26

End at: 2018-04-24 10:56:56

Local clock offset: -7.336 ms

Remote clock offset: 5.83 ms

Below is generated by plot.py at 2018-04-24 12:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 117.357 ms

Loss rate: 1.57%

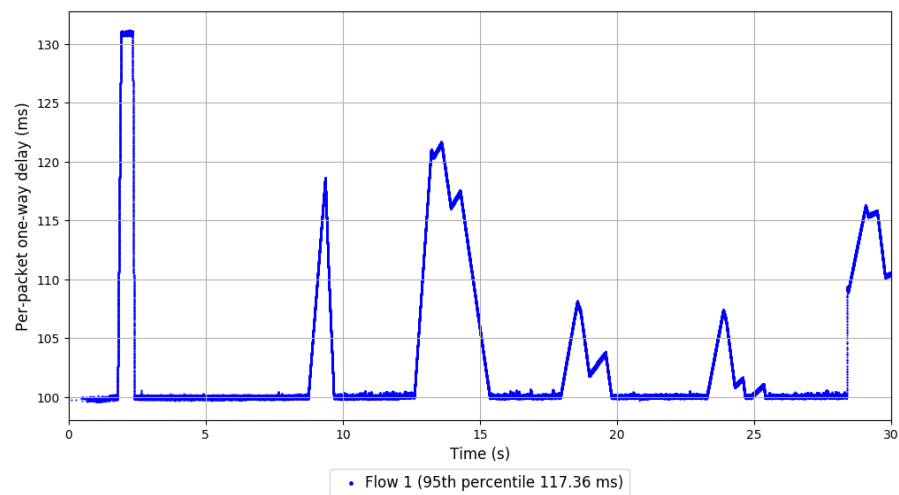
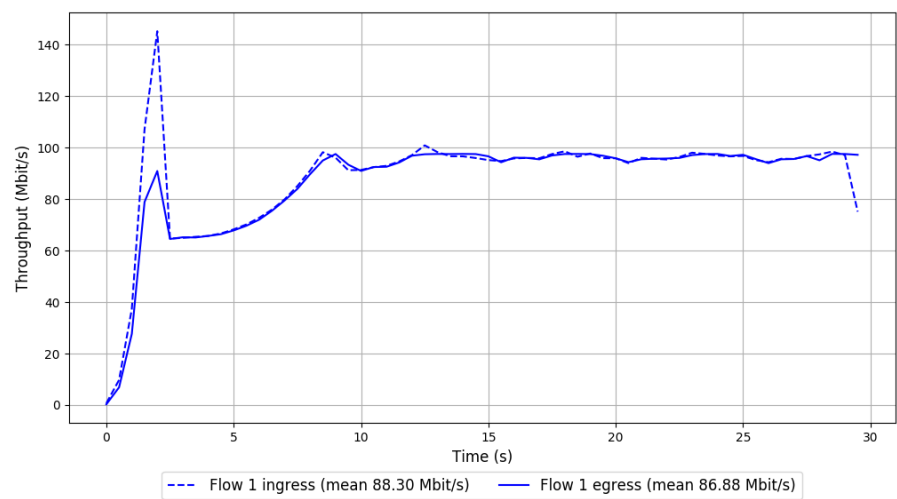
-- Flow 1:

Average throughput: 86.88 Mbit/s

95th percentile per-packet one-way delay: 117.357 ms

Loss rate: 1.57%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-04-24 11:17:34

End at: 2018-04-24 11:18:04

Local clock offset: -6.118 ms

Remote clock offset: 7.312 ms

Below is generated by plot.py at 2018-04-24 12:31:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 110.489 ms

Loss rate: 1.56%

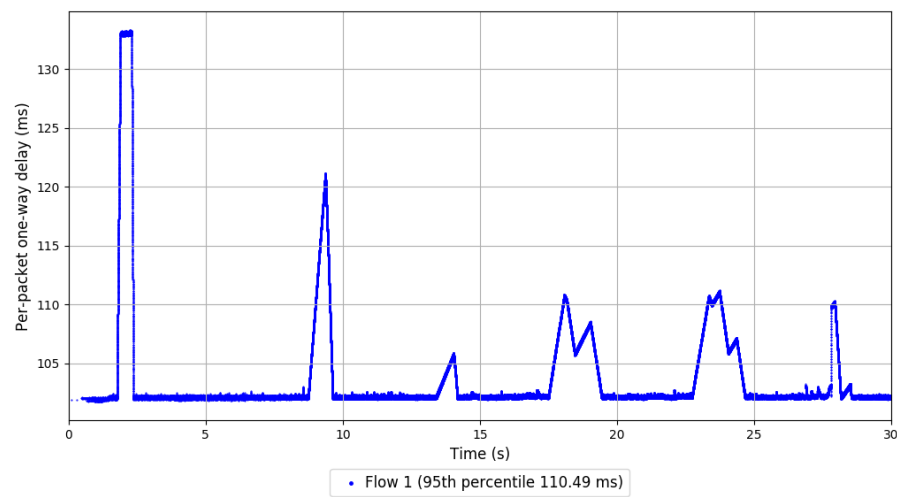
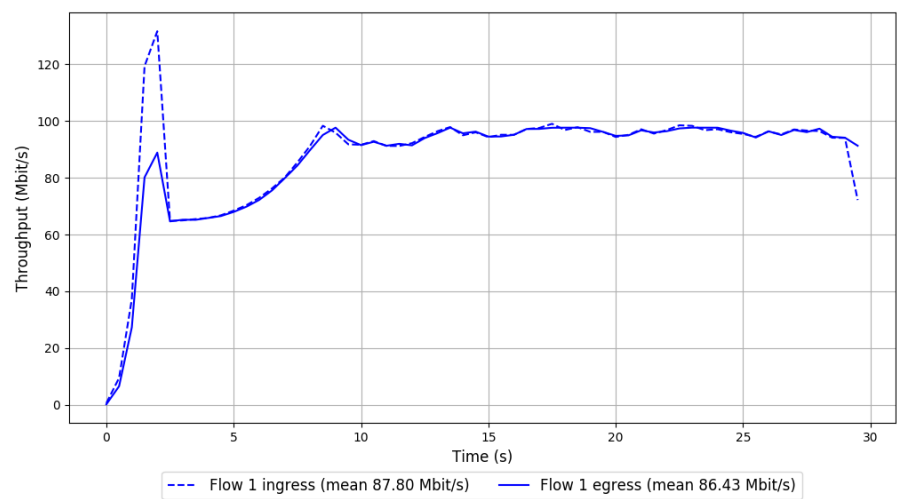
-- Flow 1:

Average throughput: 86.43 Mbit/s

95th percentile per-packet one-way delay: 110.489 ms

Loss rate: 1.56%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-04-24 11:38:43

End at: 2018-04-24 11:39:13

Local clock offset: -7.248 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-04-24 12:32:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 102.182 ms

Loss rate: 1.54%

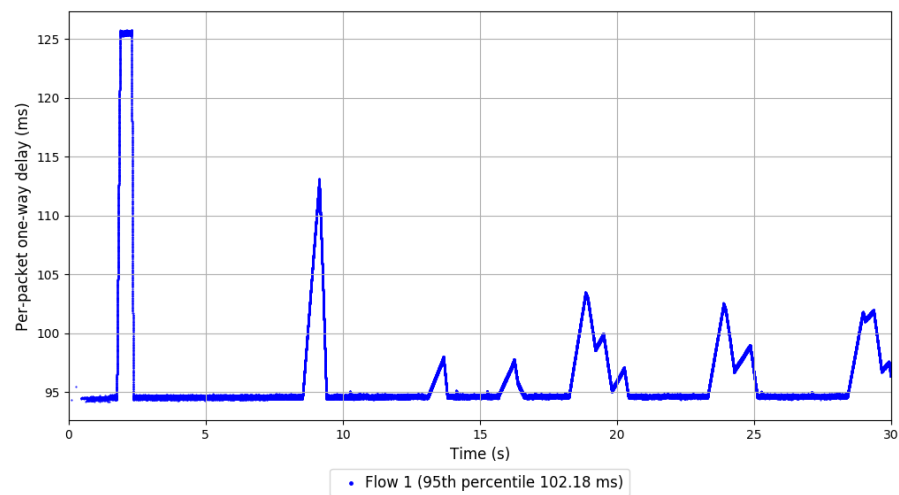
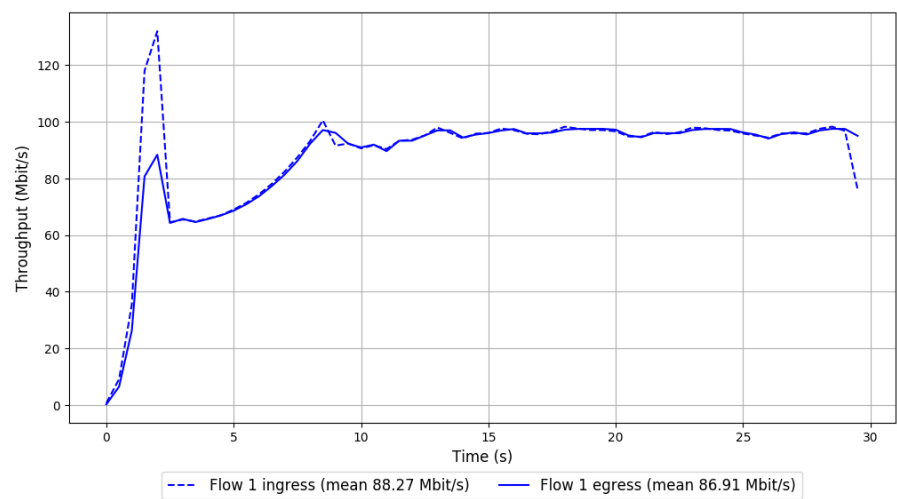
-- Flow 1:

Average throughput: 86.91 Mbit/s

95th percentile per-packet one-way delay: 102.182 ms

Loss rate: 1.54%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-04-24 11:59:49

End at: 2018-04-24 12:00:19

Local clock offset: -6.872 ms

Remote clock offset: 2.325 ms

Below is generated by plot.py at 2018-04-24 12:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 107.063 ms

Loss rate: 1.58%

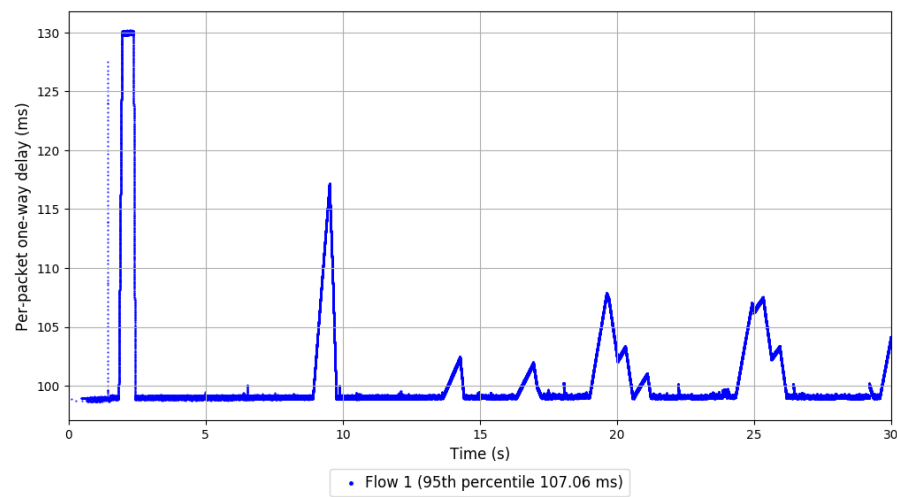
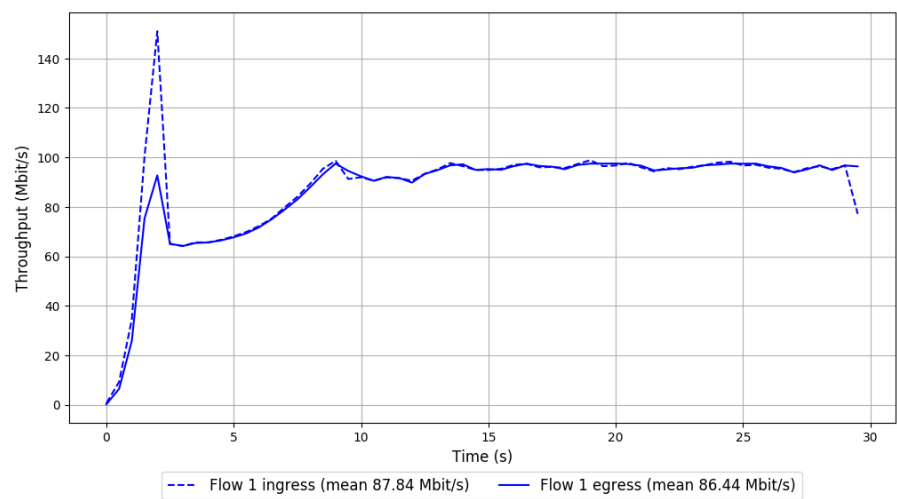
-- Flow 1:

Average throughput: 86.44 Mbit/s

95th percentile per-packet one-way delay: 107.063 ms

Loss rate: 1.58%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of QUIC Cubic

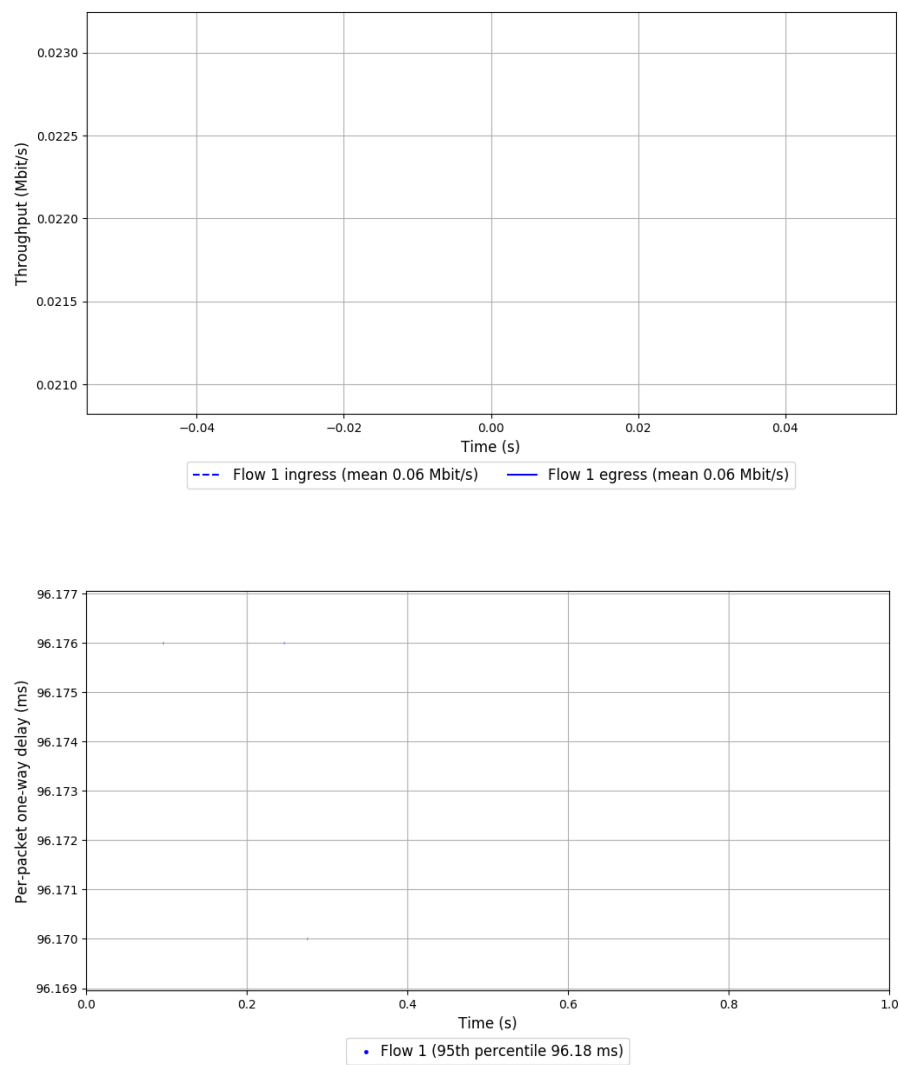
Start at: 2018-04-24 08:39:29

End at: 2018-04-24 08:39:59

Local clock offset: -6.915 ms

Remote clock offset: 3.385 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-04-24 09:00:27

End at: 2018-04-24 09:00:57

Local clock offset: -7.532 ms

Remote clock offset: 2.141 ms

Below is generated by plot.py at 2018-04-24 12:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 117.878 ms

Loss rate: 0.18%

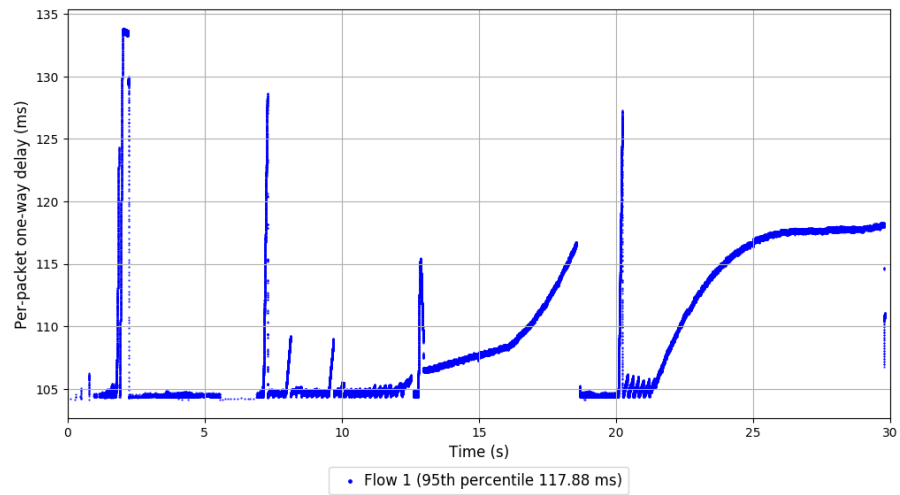
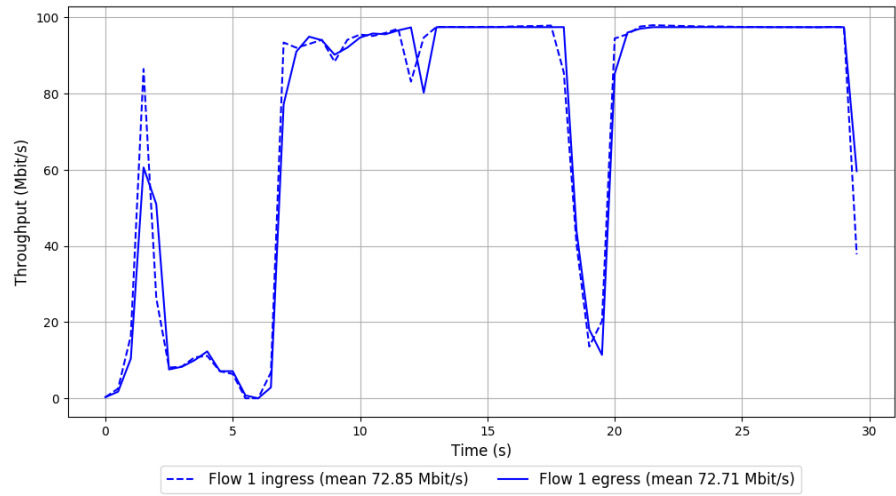
-- Flow 1:

Average throughput: 72.71 Mbit/s

95th percentile per-packet one-way delay: 117.878 ms

Loss rate: 0.18%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-04-24 09:21:33

End at: 2018-04-24 09:22:03

Local clock offset: -6.676 ms

Remote clock offset: 7.154 ms

Below is generated by plot.py at 2018-04-24 12:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 117.658 ms

Loss rate: 0.19%

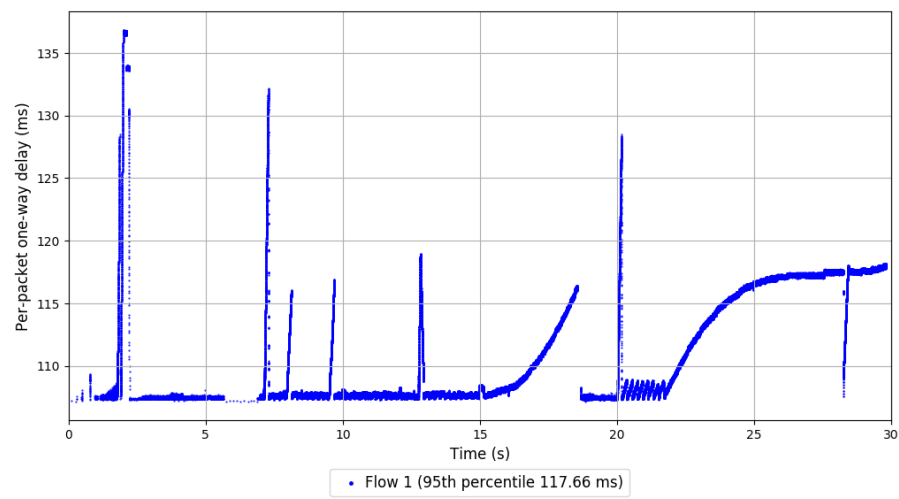
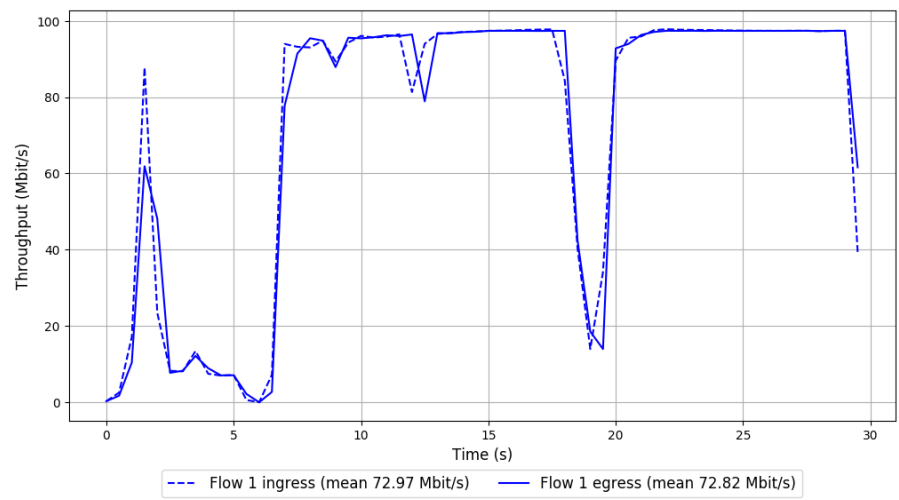
-- Flow 1:

Average throughput: 72.82 Mbit/s

95th percentile per-packet one-way delay: 117.658 ms

Loss rate: 0.19%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-04-24 09:42:37

End at: 2018-04-24 09:43:07

Local clock offset: -6.642 ms

Remote clock offset: 1.779 ms

Below is generated by plot.py at 2018-04-24 12:32:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 103.310 ms

Loss rate: 0.19%

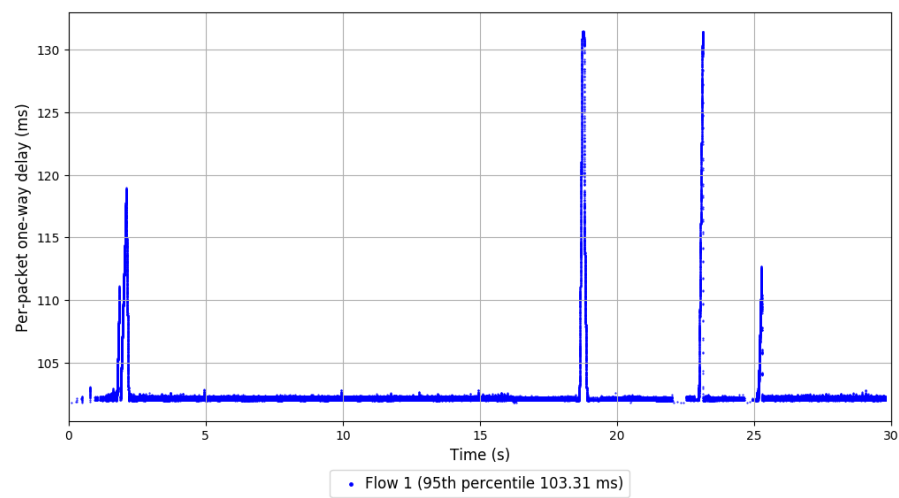
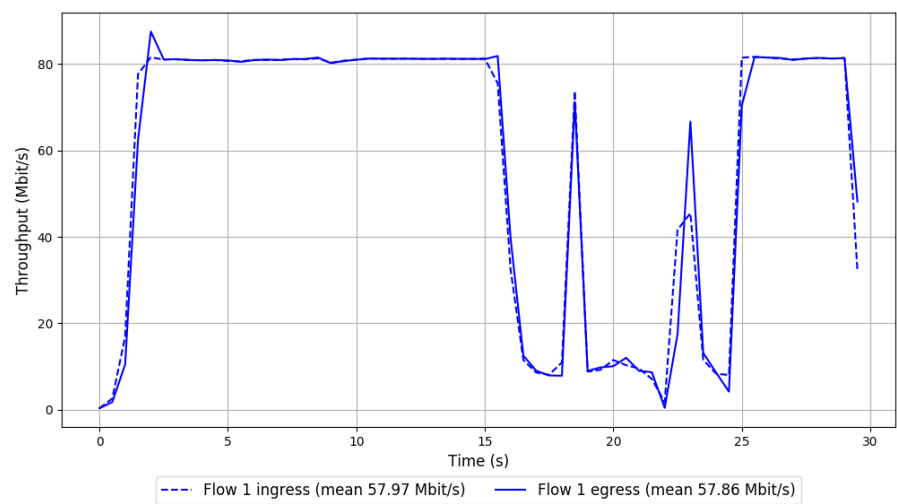
-- Flow 1:

Average throughput: 57.86 Mbit/s

95th percentile per-packet one-way delay: 103.310 ms

Loss rate: 0.19%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-04-24 10:03:38

End at: 2018-04-24 10:04:08

Local clock offset: -7.35 ms

Remote clock offset: 1.607 ms

Below is generated by plot.py at 2018-04-24 12:32:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 96.229 ms

Loss rate: 0.13%

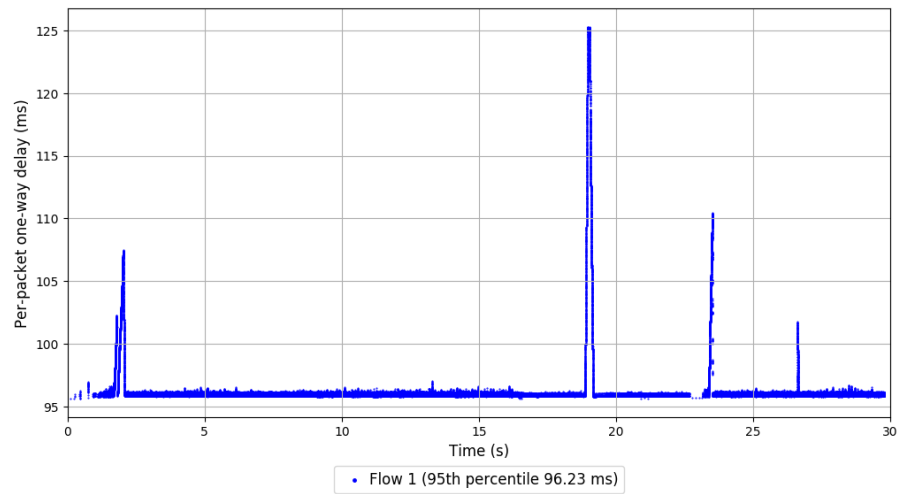
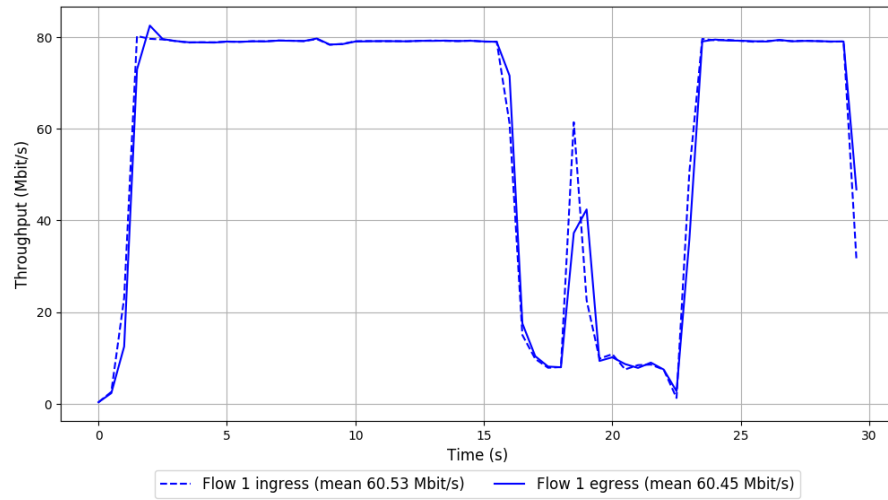
-- Flow 1:

Average throughput: 60.45 Mbit/s

95th percentile per-packet one-way delay: 96.229 ms

Loss rate: 0.13%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-04-24 10:24:39

End at: 2018-04-24 10:25:09

Local clock offset: -6.39 ms

Remote clock offset: 2.295 ms

Below is generated by plot.py at 2018-04-24 12:32:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 117.102 ms

Loss rate: 0.18%

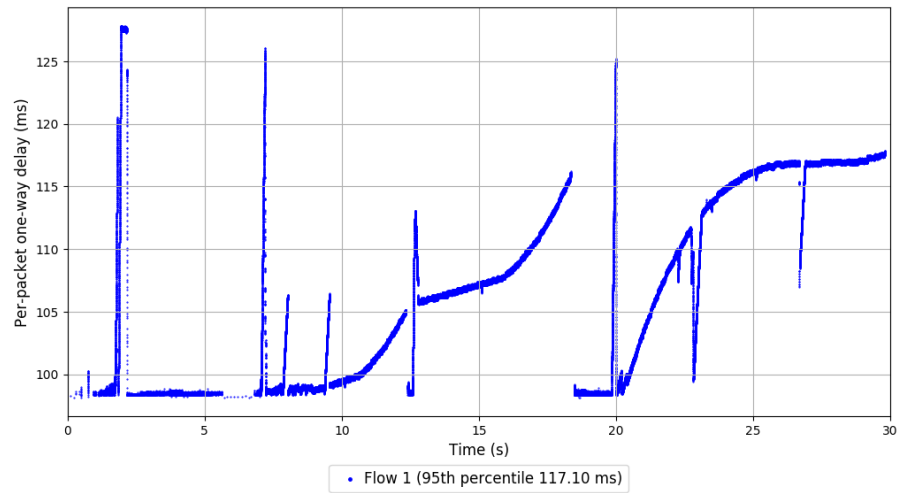
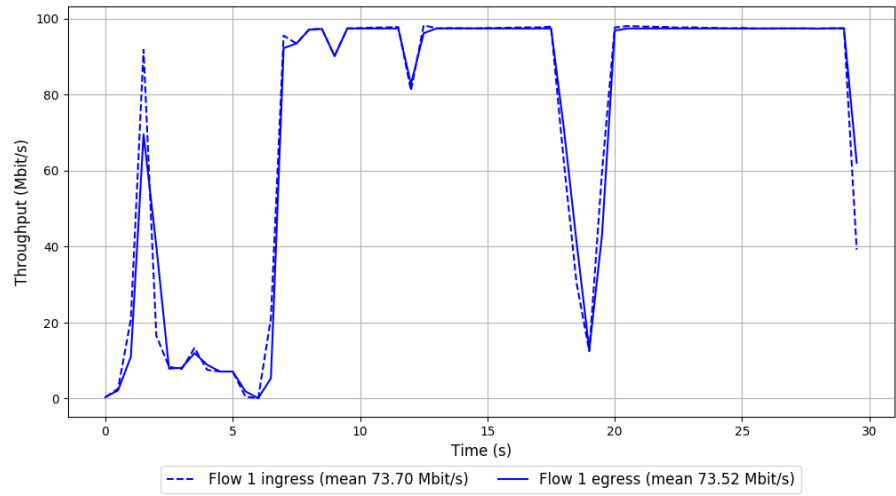
-- Flow 1:

Average throughput: 73.52 Mbit/s

95th percentile per-packet one-way delay: 117.102 ms

Loss rate: 0.18%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-04-24 10:45:25

End at: 2018-04-24 10:45:55

Local clock offset: -8.205 ms

Remote clock offset: 6.602 ms

Below is generated by plot.py at 2018-04-24 12:32:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.91 Mbit/s

95th percentile per-packet one-way delay: 107.176 ms

Loss rate: 0.18%

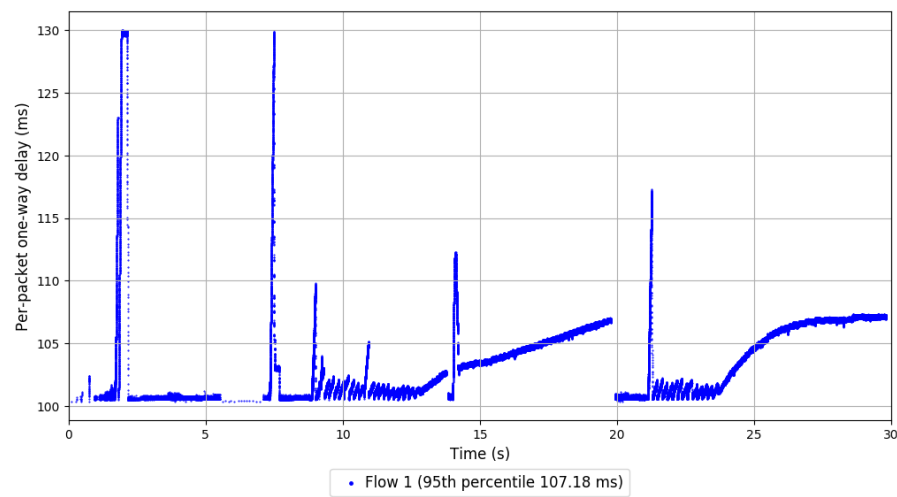
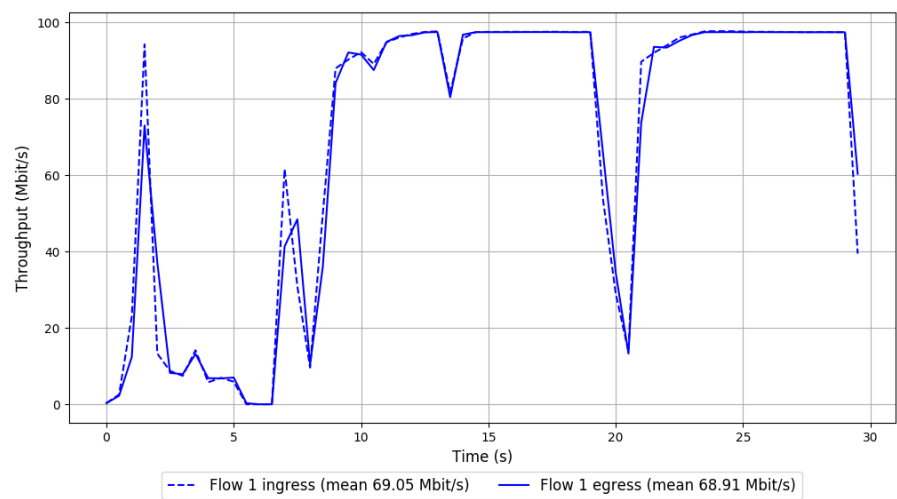
-- Flow 1:

Average throughput: 68.91 Mbit/s

95th percentile per-packet one-way delay: 107.176 ms

Loss rate: 0.18%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-04-24 11:06:34

End at: 2018-04-24 11:07:04

Local clock offset: -6.987 ms

Remote clock offset: 2.789 ms

Below is generated by plot.py at 2018-04-24 12:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 104.138 ms

Loss rate: 0.19%

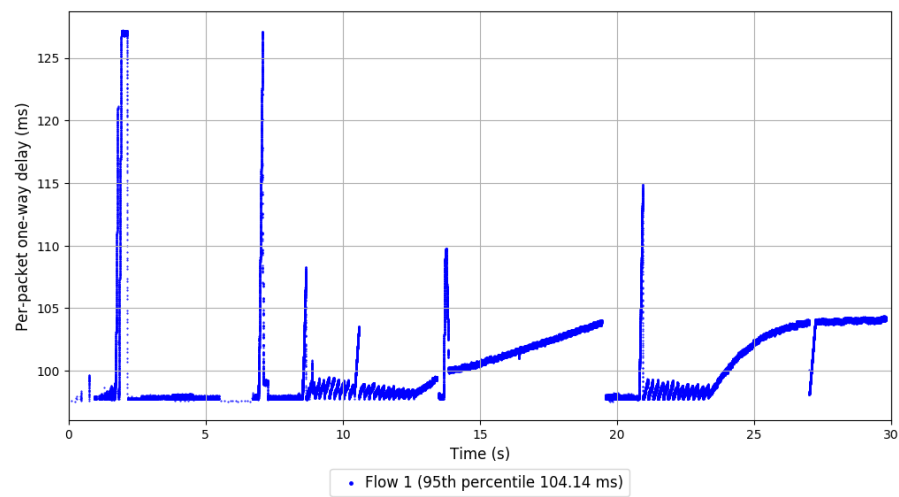
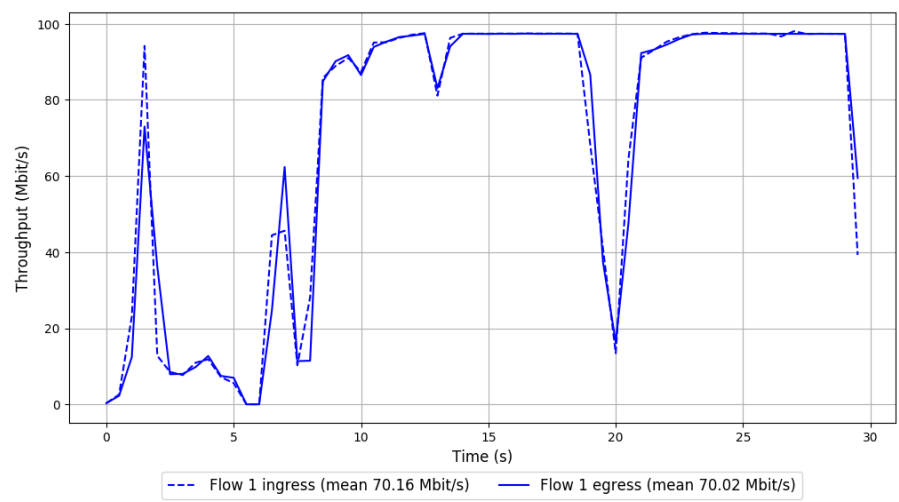
-- Flow 1:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 104.138 ms

Loss rate: 0.19%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-04-24 11:27:44

End at: 2018-04-24 11:28:14

Local clock offset: -6.36 ms

Remote clock offset: 2.773 ms

Below is generated by plot.py at 2018-04-24 12:33:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.95 Mbit/s

95th percentile per-packet one-way delay: 99.151 ms

Loss rate: 0.25%

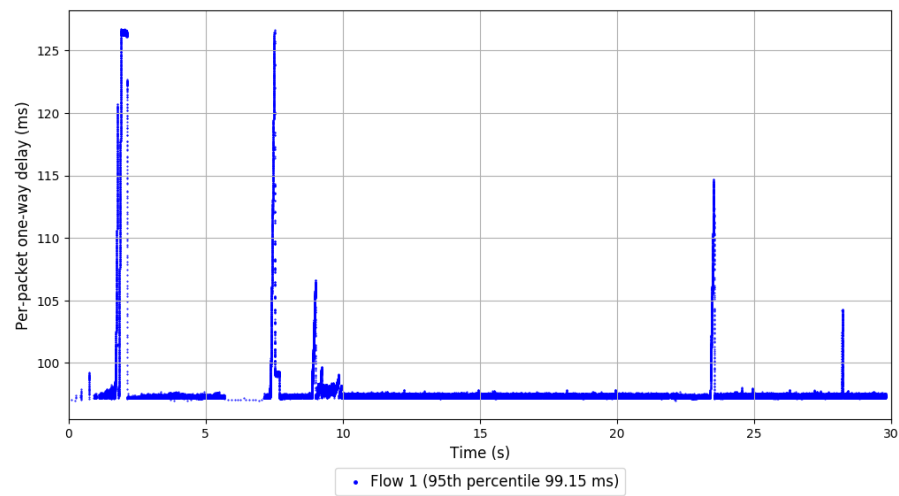
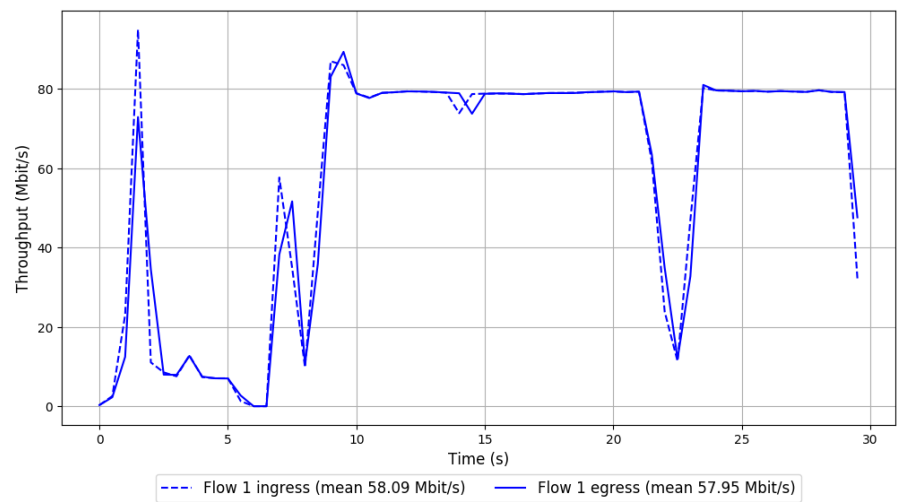
-- Flow 1:

Average throughput: 57.95 Mbit/s

95th percentile per-packet one-way delay: 99.151 ms

Loss rate: 0.25%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-04-24 11:48:49

End at: 2018-04-24 11:49:19

Local clock offset: -5.792 ms

Remote clock offset: 1.645 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 101.821 ms

Loss rate: 0.21%

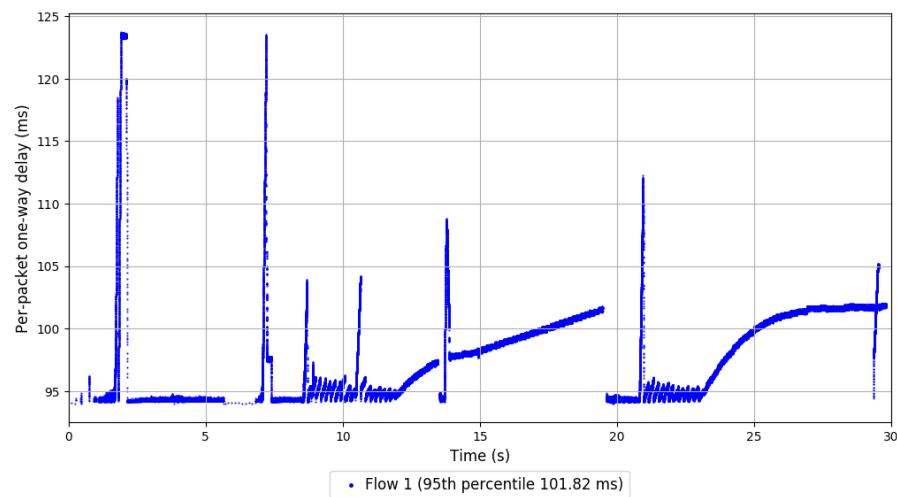
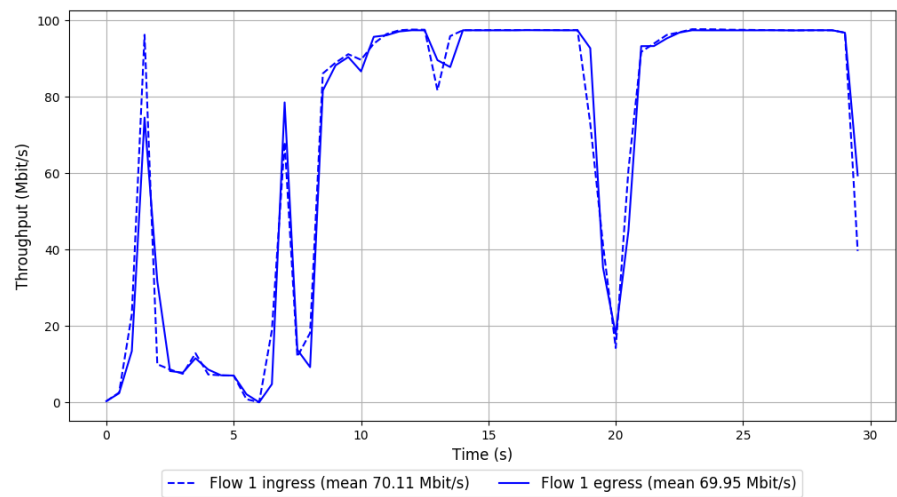
-- Flow 1:

Average throughput: 69.95 Mbit/s

95th percentile per-packet one-way delay: 101.821 ms

Loss rate: 0.21%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-04-24 08:38:19

End at: 2018-04-24 08:38:49

Local clock offset: -6.273 ms

Remote clock offset: 3.331 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.711 ms

Loss rate: 0.00%

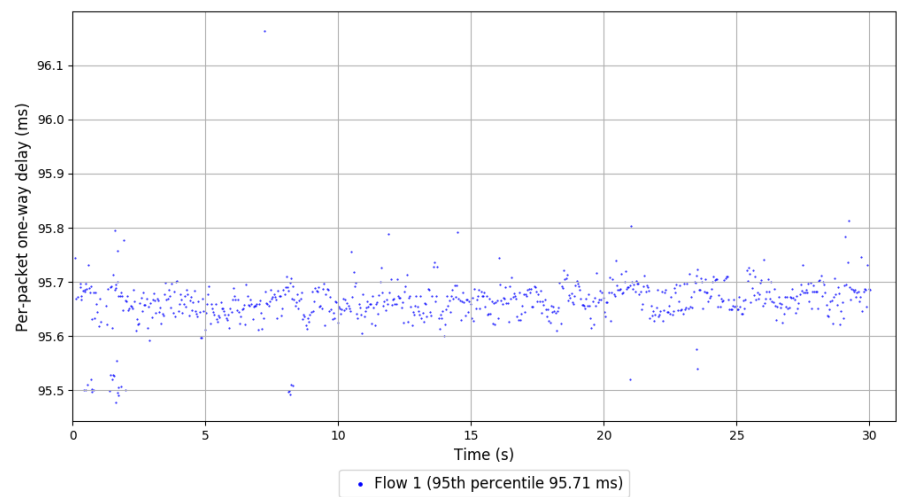
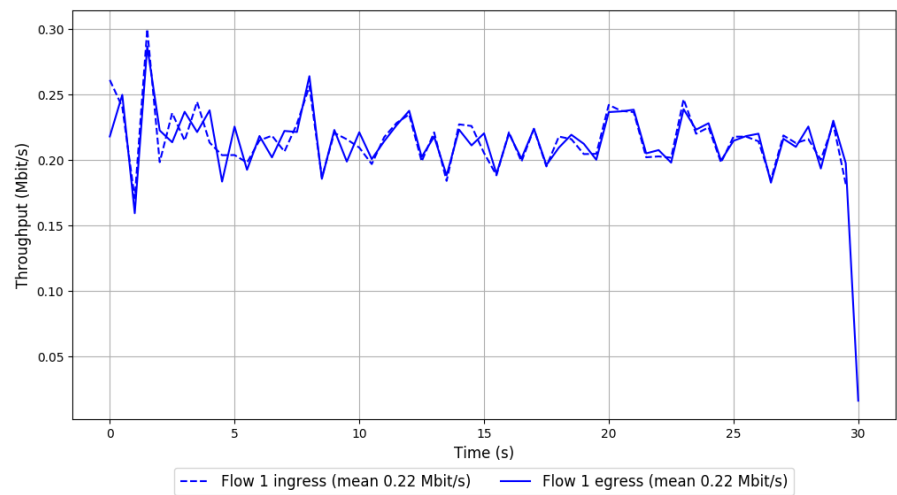
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.711 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-04-24 08:59:18

End at: 2018-04-24 08:59:48

Local clock offset: -7.529 ms

Remote clock offset: 5.943 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.667 ms

Loss rate: 0.00%

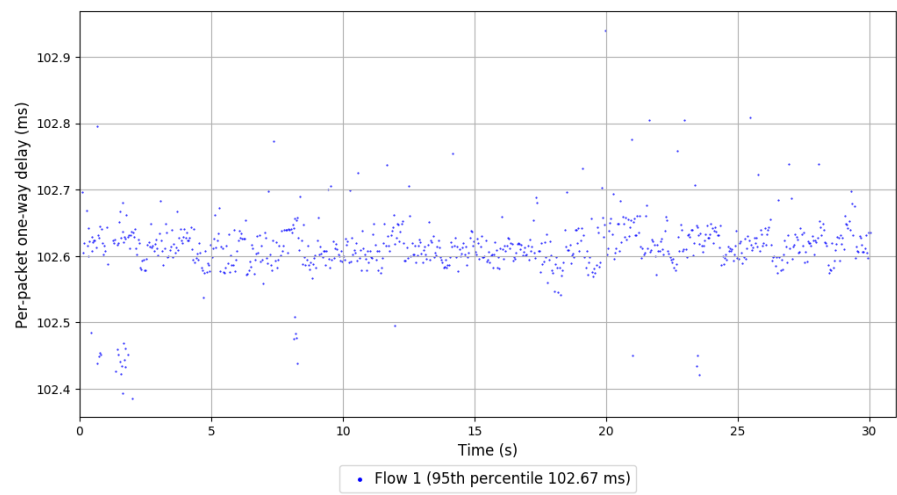
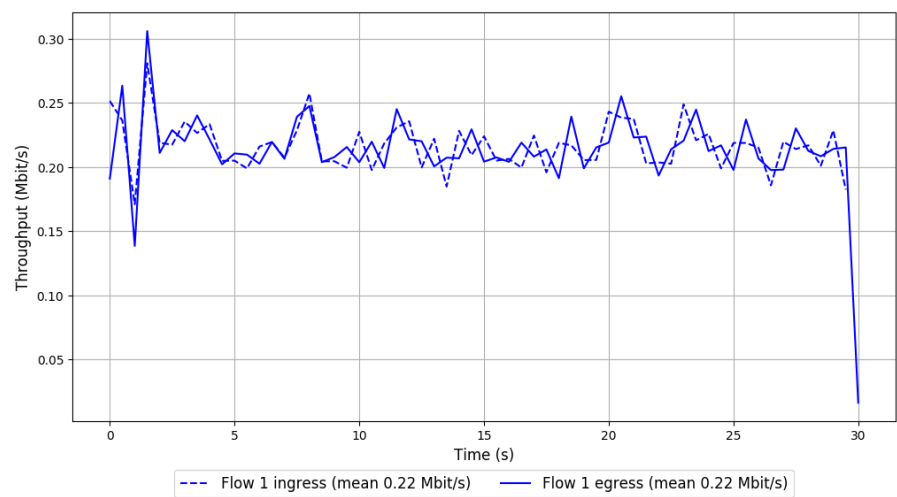
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 102.667 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-04-24 09:20:23

End at: 2018-04-24 09:20:53

Local clock offset: -7.41 ms

Remote clock offset: 2.549 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 101.673 ms

Loss rate: 0.00%

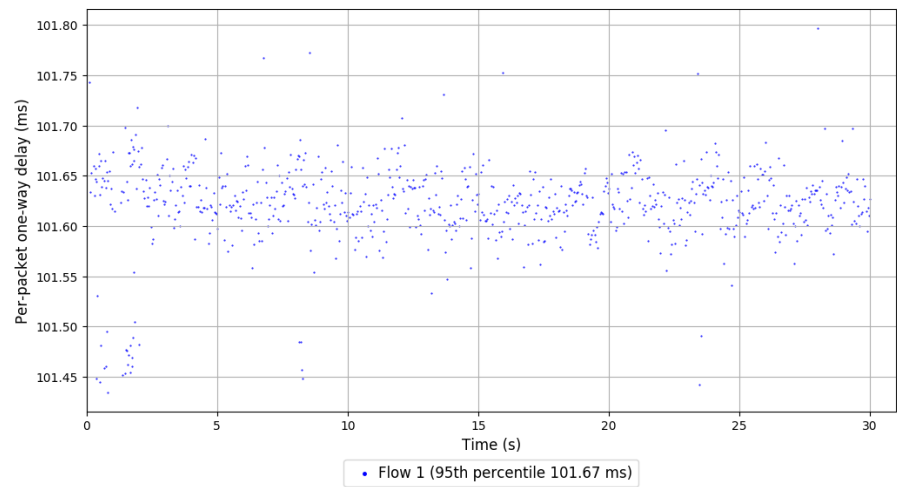
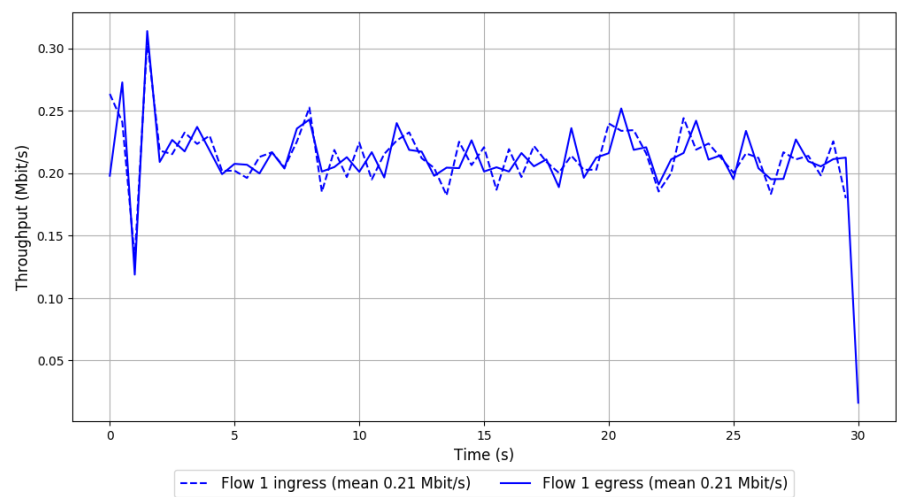
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 101.673 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-04-24 09:41:27

End at: 2018-04-24 09:41:57

Local clock offset: -6.672 ms

Remote clock offset: 6.348 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.100 ms

Loss rate: 0.00%

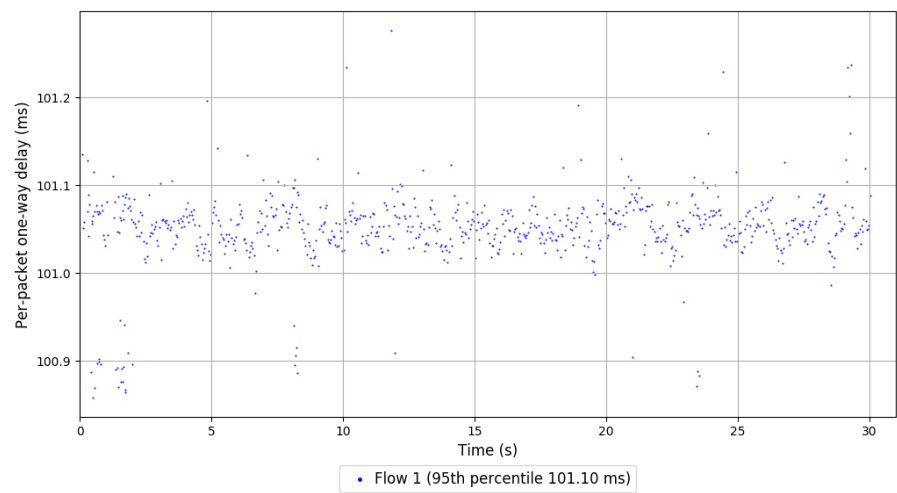
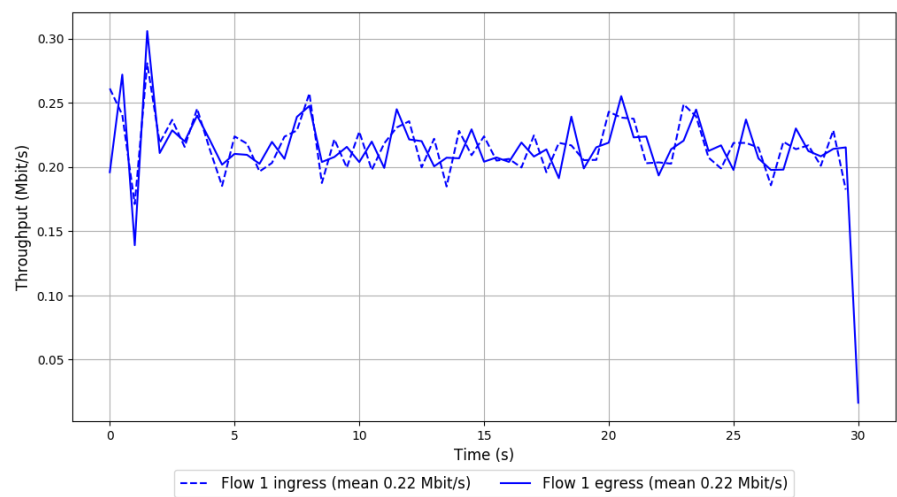
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.100 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-04-24 10:02:28

End at: 2018-04-24 10:02:58

Local clock offset: -5.834 ms

Remote clock offset: 1.525 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.694 ms

Loss rate: 0.00%

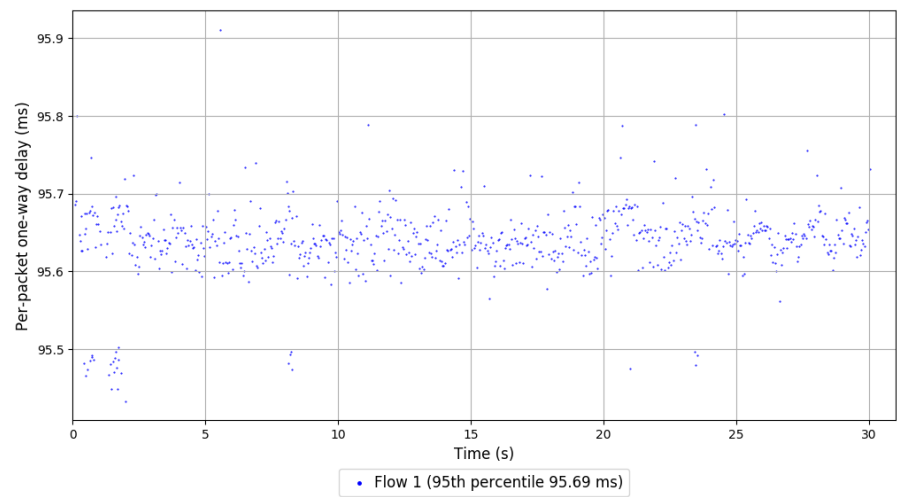
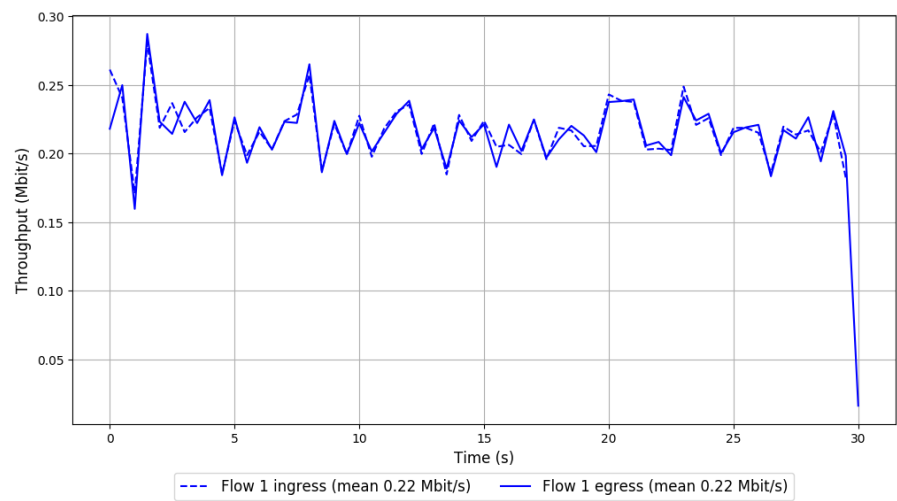
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 95.694 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-04-24 10:23:29

End at: 2018-04-24 10:23:59

Local clock offset: -6.38 ms

Remote clock offset: 1.431 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 94.065 ms

Loss rate: 0.00%

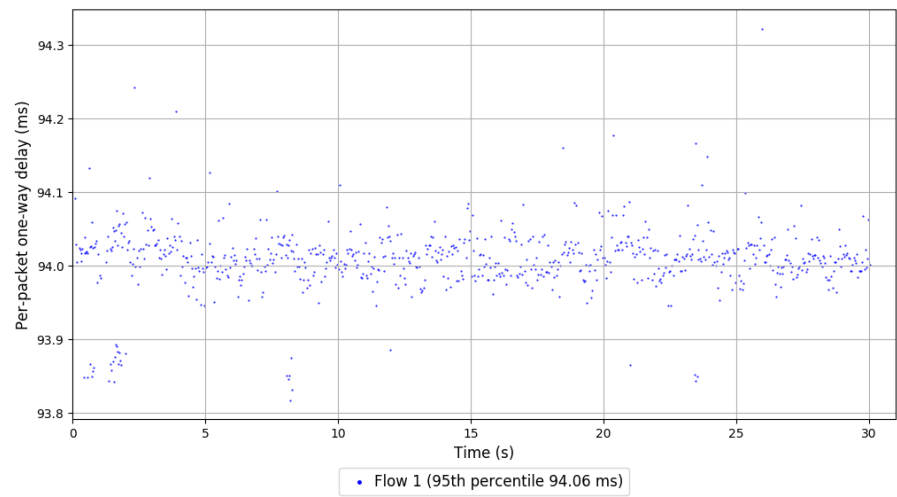
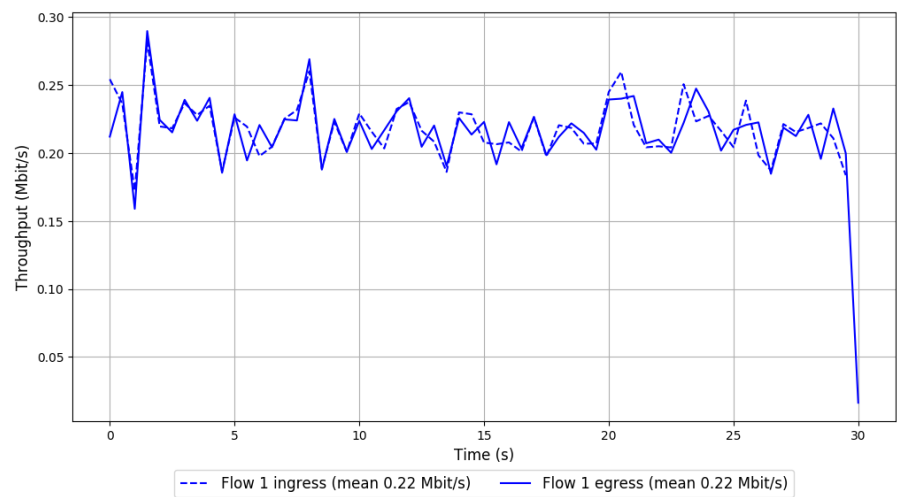
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 94.065 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-04-24 10:44:16

End at: 2018-04-24 10:44:46

Local clock offset: -7.413 ms

Remote clock offset: 1.947 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 101.509 ms

Loss rate: 0.00%

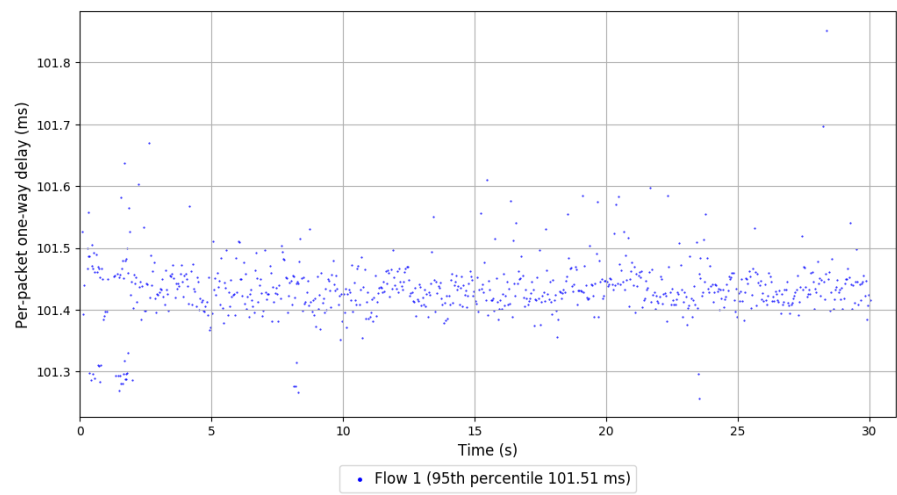
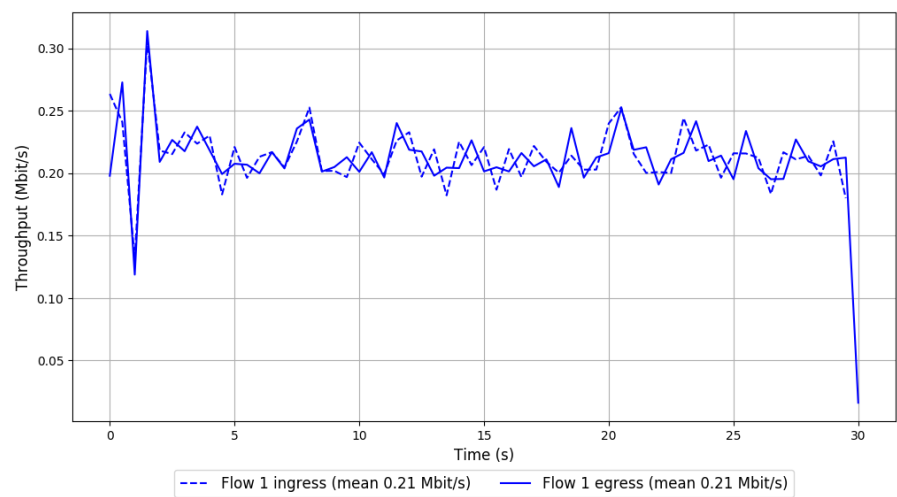
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 101.509 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-04-24 11:05:24

End at: 2018-04-24 11:05:54

Local clock offset: -7.009 ms

Remote clock offset: 5.821 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.383 ms

Loss rate: 0.00%

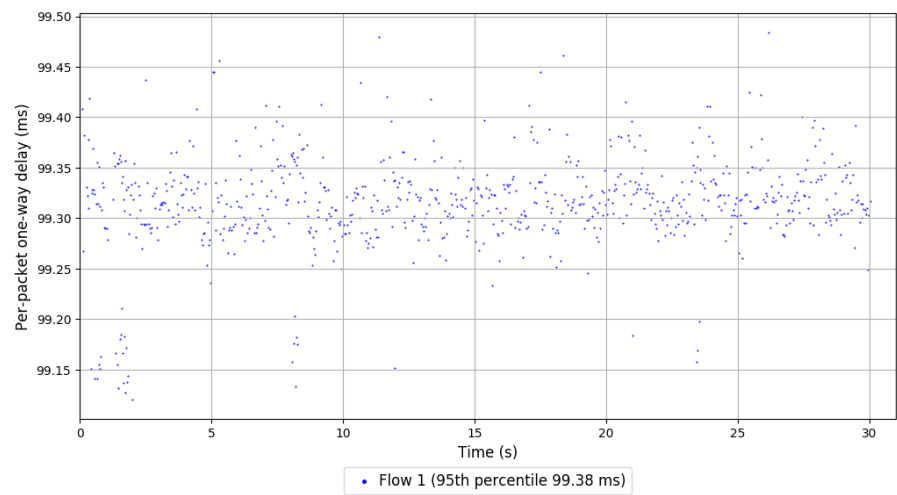
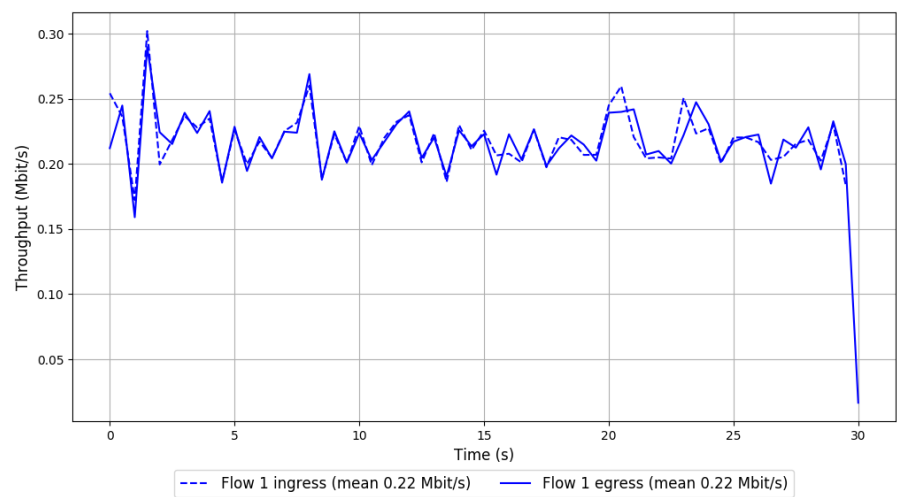
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 99.383 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-04-24 11:26:34

End at: 2018-04-24 11:27:04

Local clock offset: -5.558 ms

Remote clock offset: 7.347 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.452 ms

Loss rate: 0.00%

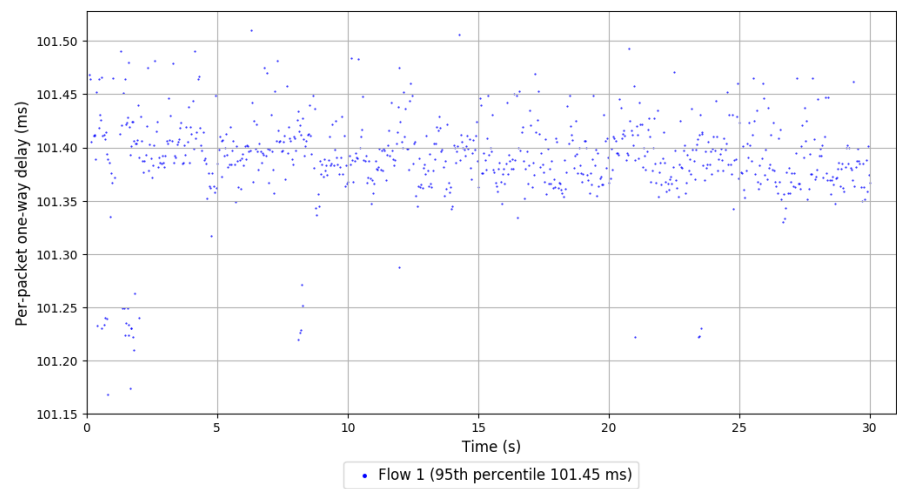
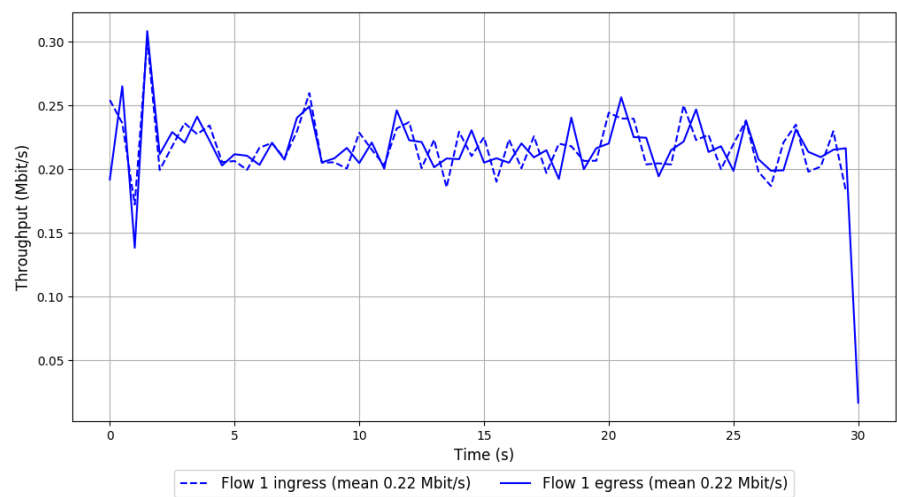
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 101.452 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-04-24 11:47:40

End at: 2018-04-24 11:48:10

Local clock offset: -5.799 ms

Remote clock offset: 5.424 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 106.499 ms

Loss rate: 0.00%

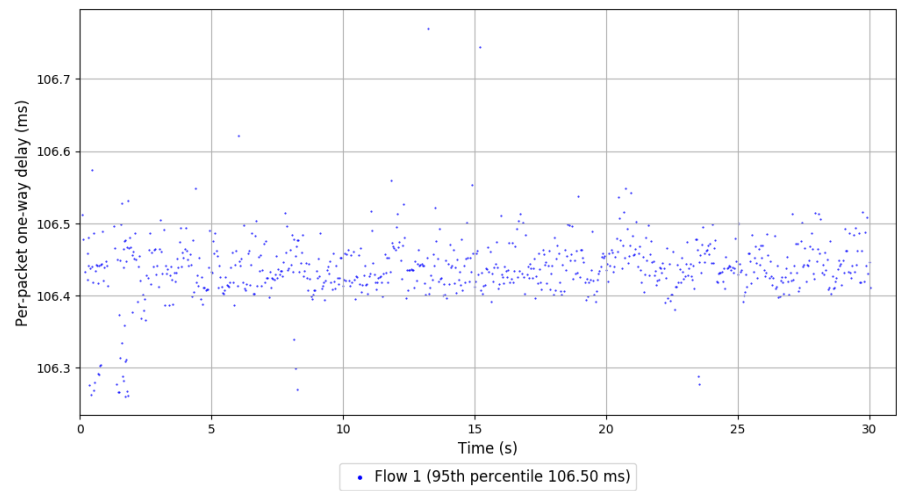
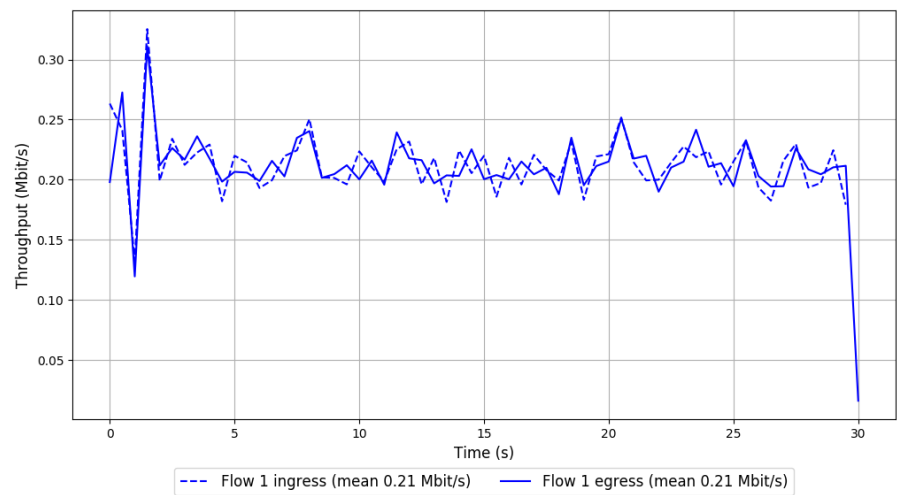
-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 106.499 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-04-24 08:43:02

End at: 2018-04-24 08:43:32

Local clock offset: -6.74 ms

Remote clock offset: 8.01 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.412 ms

Loss rate: 0.00%

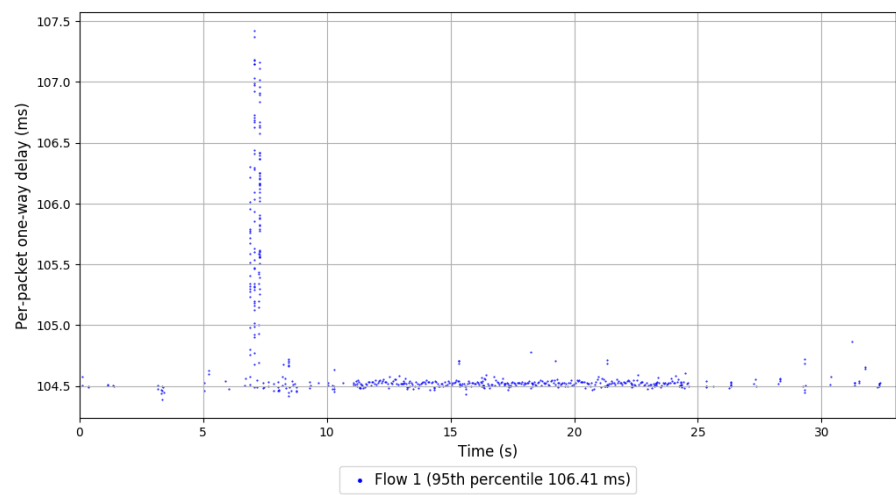
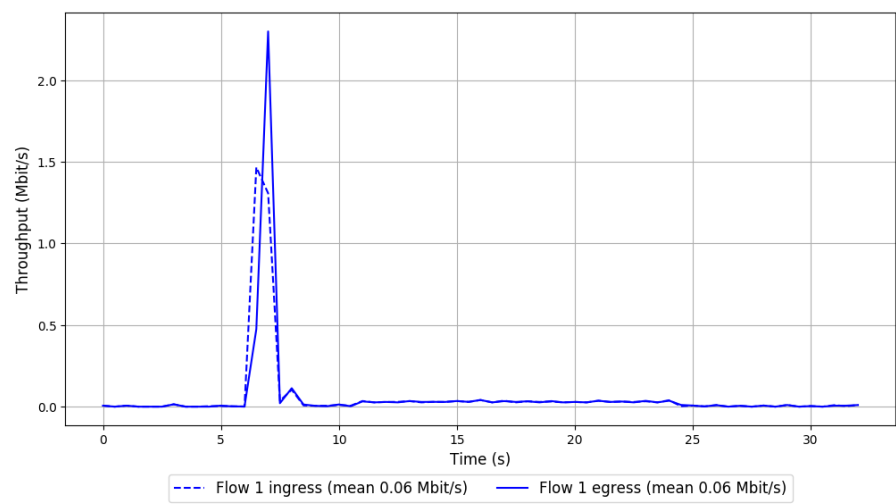
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 106.412 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-04-24 09:04:05

End at: 2018-04-24 09:04:35

Local clock offset: -5.997 ms

Remote clock offset: 2.078 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

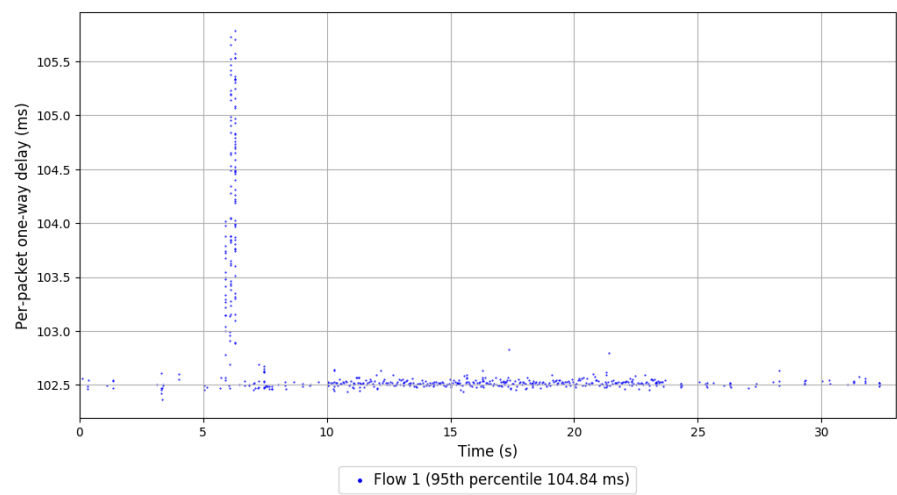
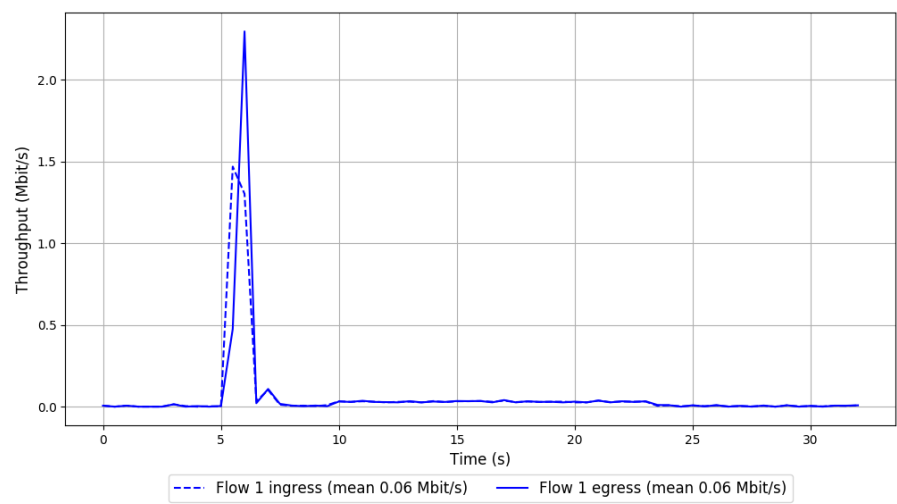
-- Flow 1:

Average throughput: 0.06 Mbit/s

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

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-04-24 09:25:11

End at: 2018-04-24 09:25:41

Local clock offset: -6.695 ms

Remote clock offset: 1.771 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.186 ms

Loss rate: 0.00%

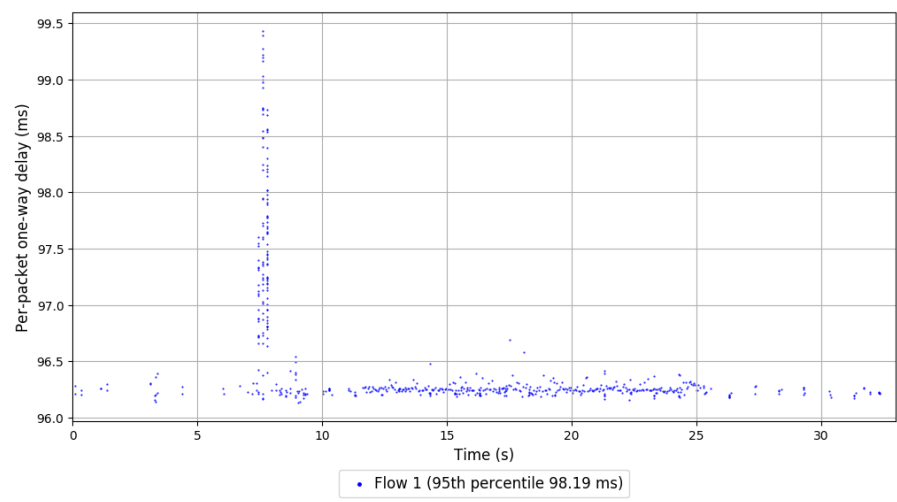
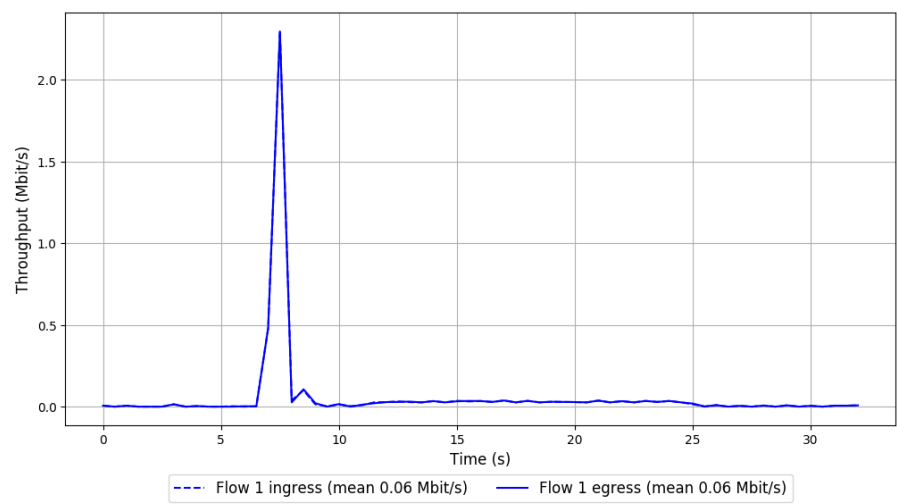
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.186 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-04-24 09:46:14

End at: 2018-04-24 09:46:44

Local clock offset: -5.891 ms

Remote clock offset: 6.344 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 109.336 ms

Loss rate: 0.00%

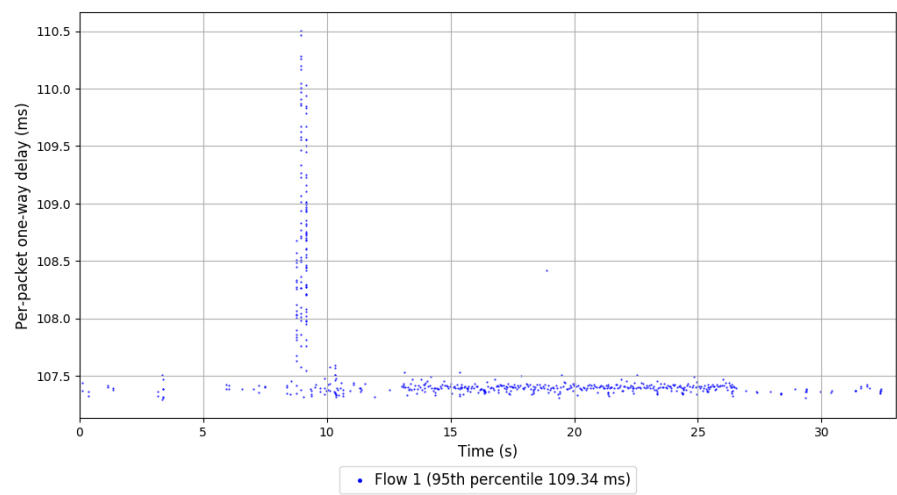
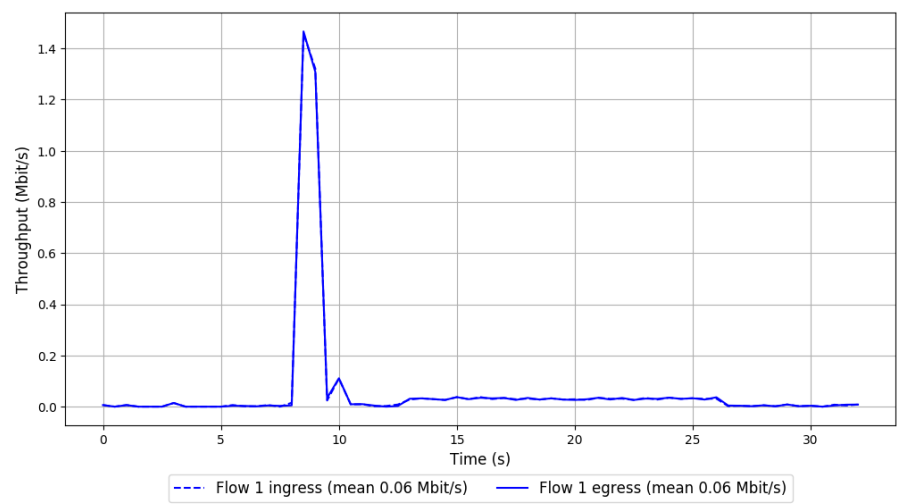
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 109.336 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-04-24 10:07:14

End at: 2018-04-24 10:07:44

Local clock offset: -6.559 ms

Remote clock offset: 1.584 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.282 ms

Loss rate: 0.00%

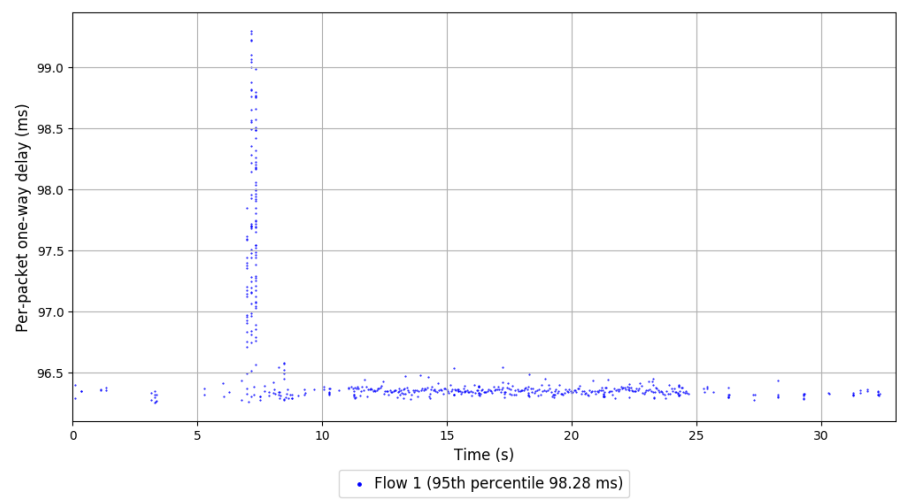
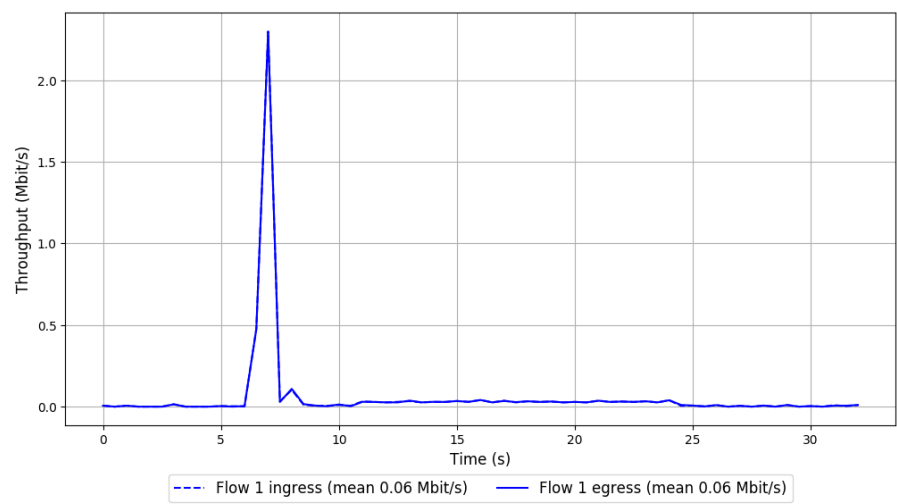
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 98.282 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-04-24 10:28:16

End at: 2018-04-24 10:28:46

Local clock offset: -7.957 ms

Remote clock offset: 6.863 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.407 ms

Loss rate: 0.00%

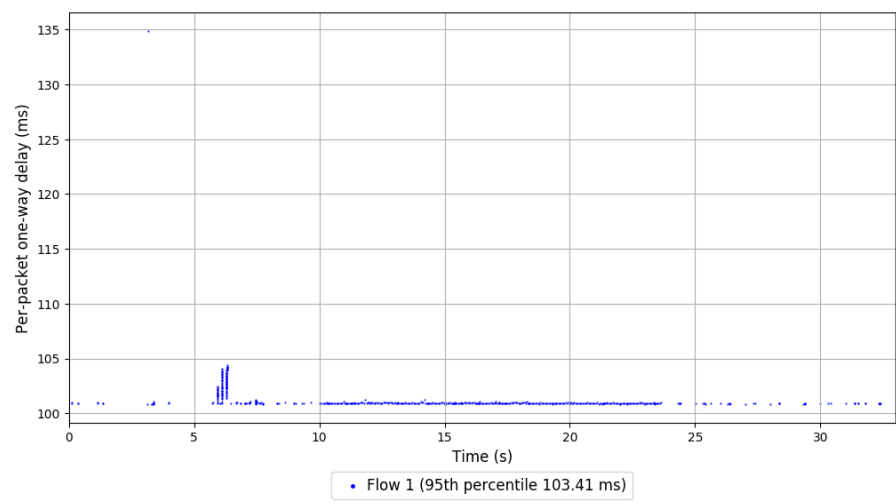
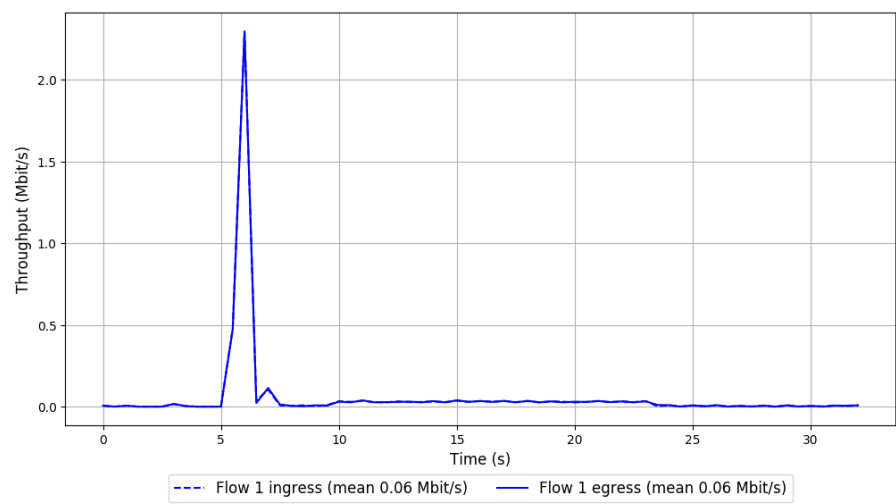
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.407 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-04-24 10:49:03

End at: 2018-04-24 10:49:33

Local clock offset: -7.076 ms

Remote clock offset: 2.055 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 96.659 ms

Loss rate: 0.00%

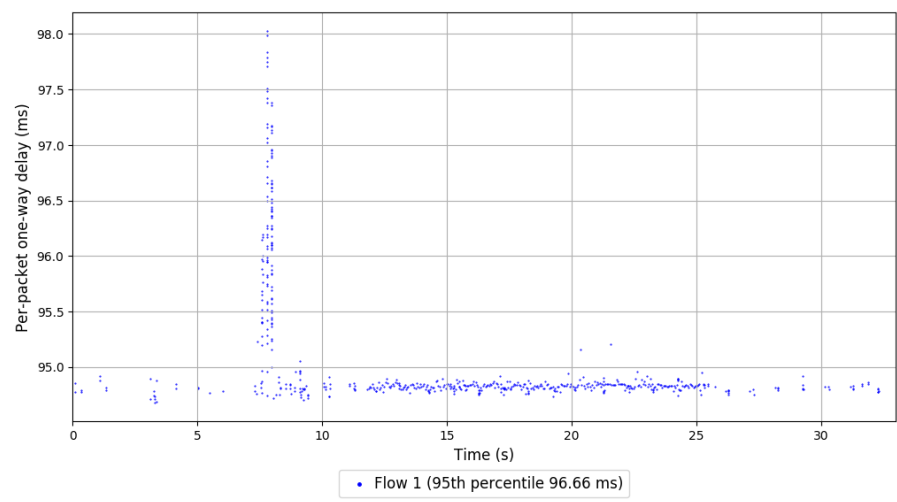
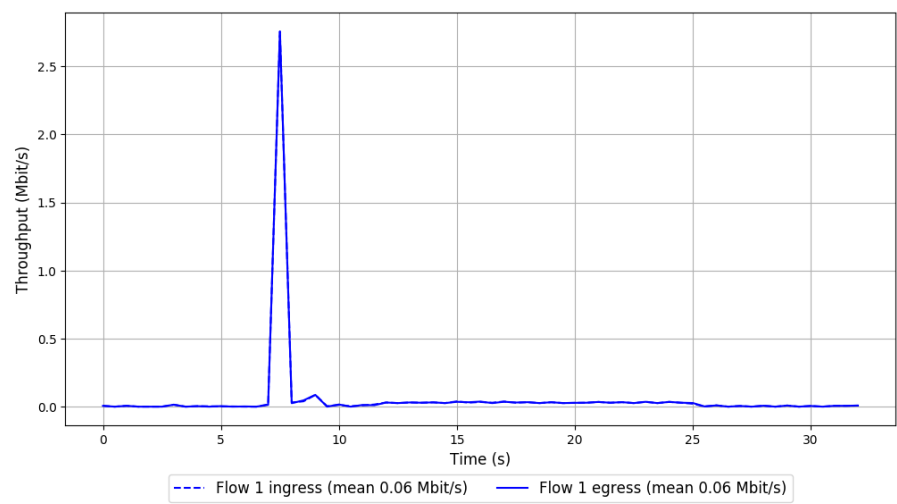
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 96.659 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-04-24 11:10:12

End at: 2018-04-24 11:10:42

Local clock offset: -5.44 ms

Remote clock offset: 7.386 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 104.610 ms

Loss rate: 0.00%

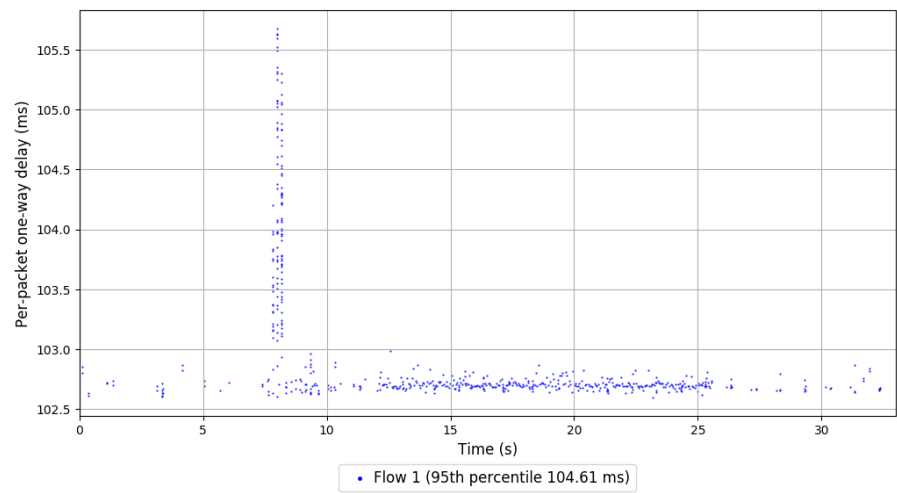
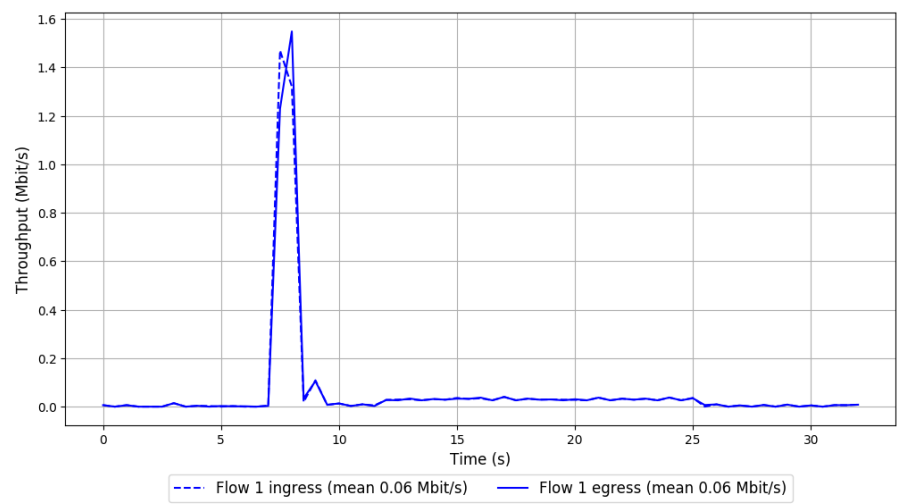
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 104.610 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-04-24 11:31:21

End at: 2018-04-24 11:31:51

Local clock offset: -7.118 ms

Remote clock offset: 7.353 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.056 ms

Loss rate: 0.00%

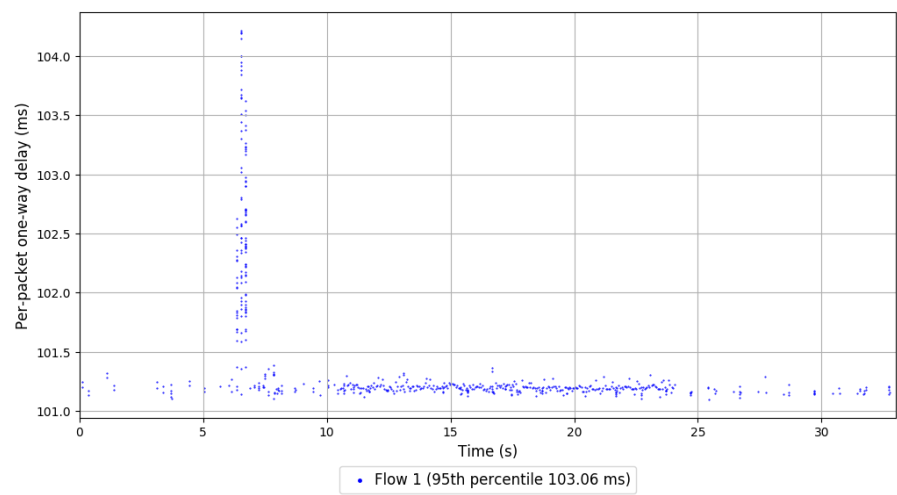
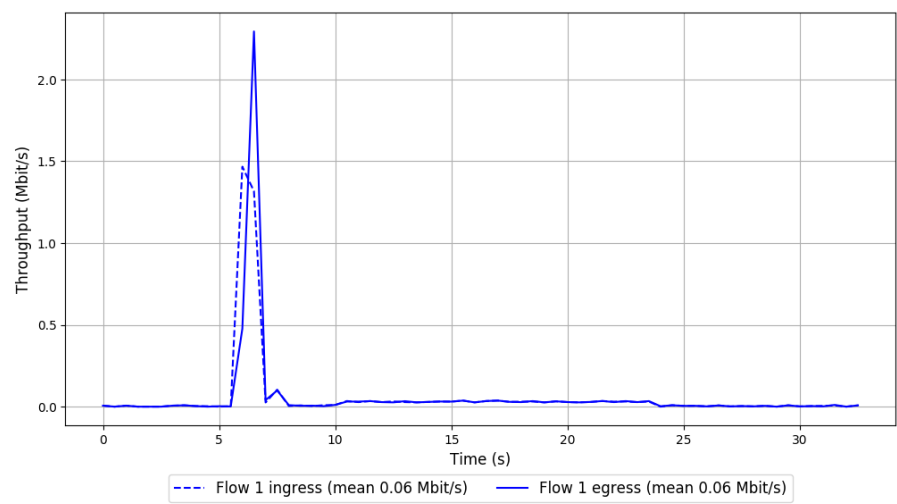
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 103.056 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-04-24 11:52:27

End at: 2018-04-24 11:52:57

Local clock offset: -7.336 ms

Remote clock offset: 1.61 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 97.186 ms

Loss rate: 0.00%

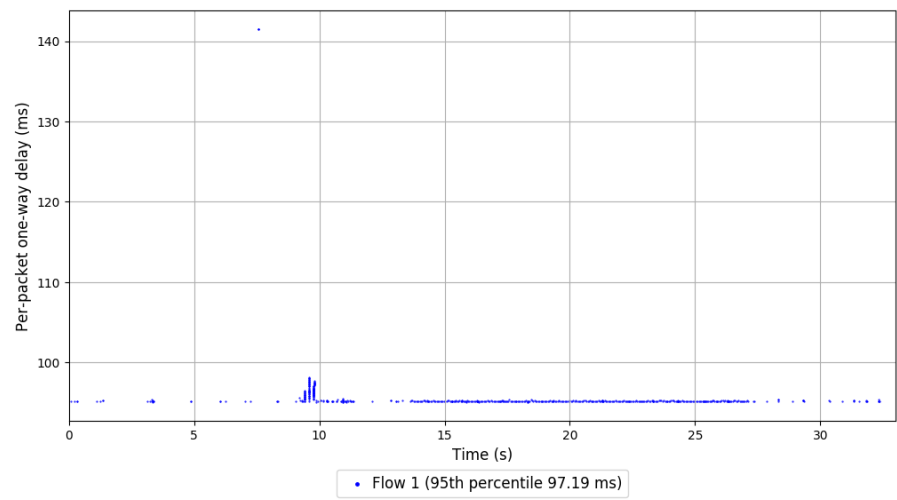
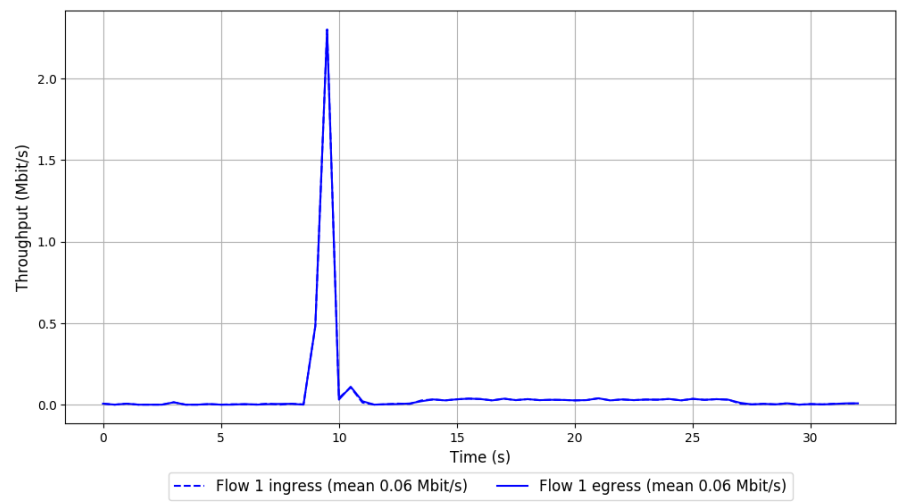
-- Flow 1:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 97.186 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2018-04-24 08:44:12

End at: 2018-04-24 08:44:42

Local clock offset: -6.762 ms

Remote clock offset: 8.891 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 111.730 ms

Loss rate: 0.65%

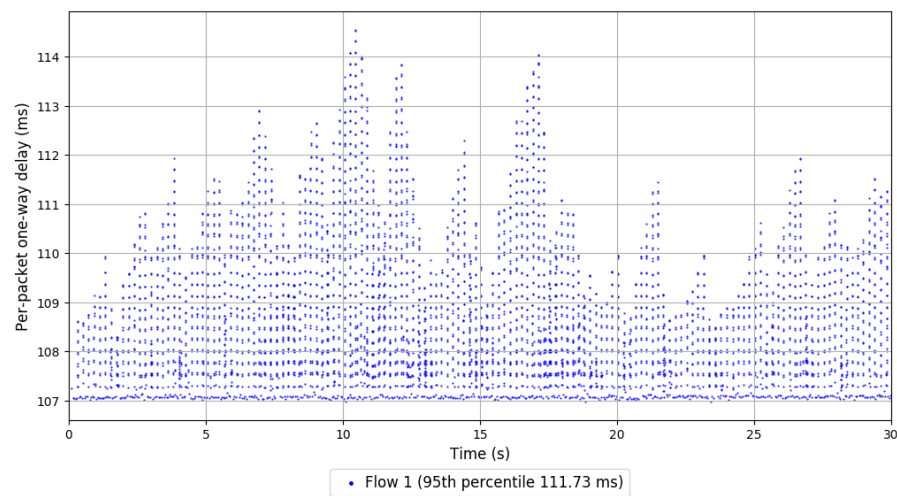
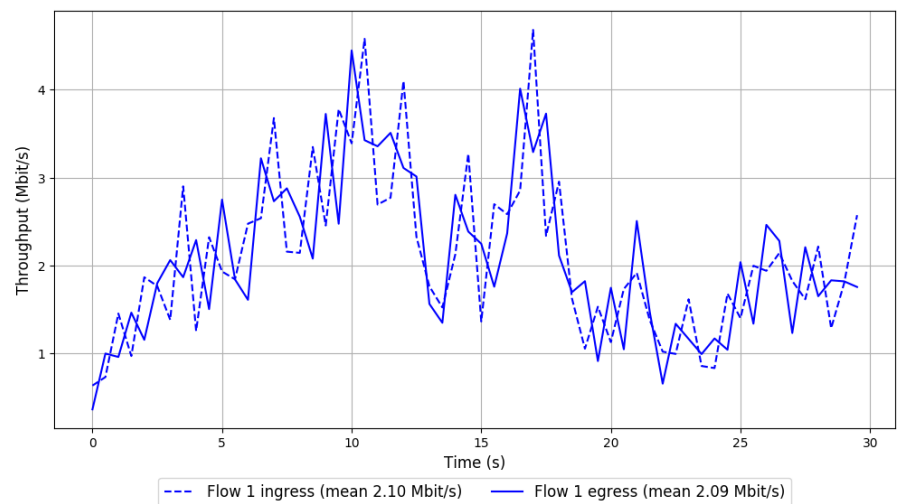
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 111.730 ms

Loss rate: 0.65%

Run 1: Report of Sprout — Data Link

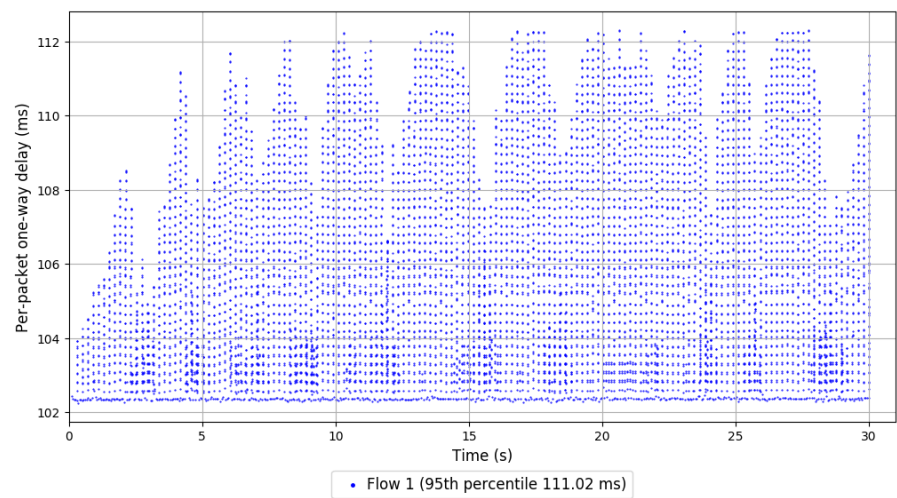
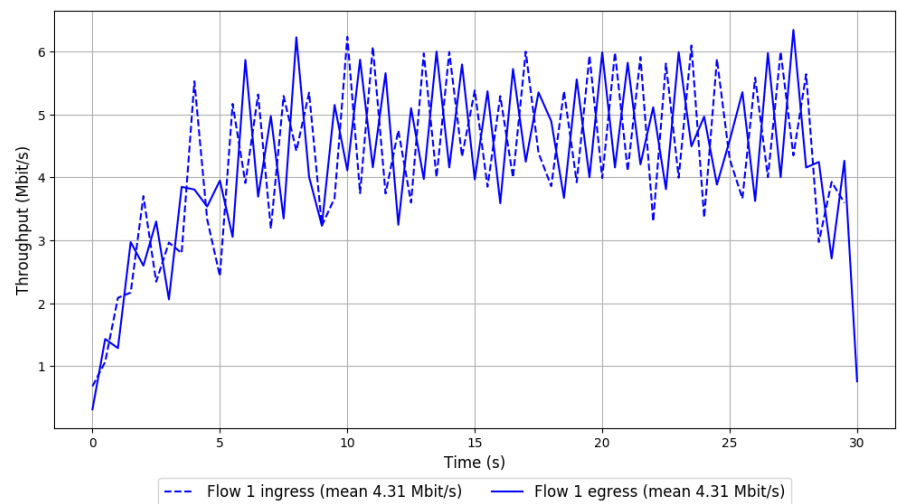


Run 2: Statistics of Sprout

Start at: 2018-04-24 09:05:15
End at: 2018-04-24 09:05:45
Local clock offset: -5.968 ms
Remote clock offset: 6.669 ms

Below is generated by plot.py at 2018-04-24 12:33:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 111.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 111.023 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-04-24 09:26:21

End at: 2018-04-24 09:26:51

Local clock offset: -6.647 ms

Remote clock offset: 2.687 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 105.470 ms

Loss rate: 0.00%

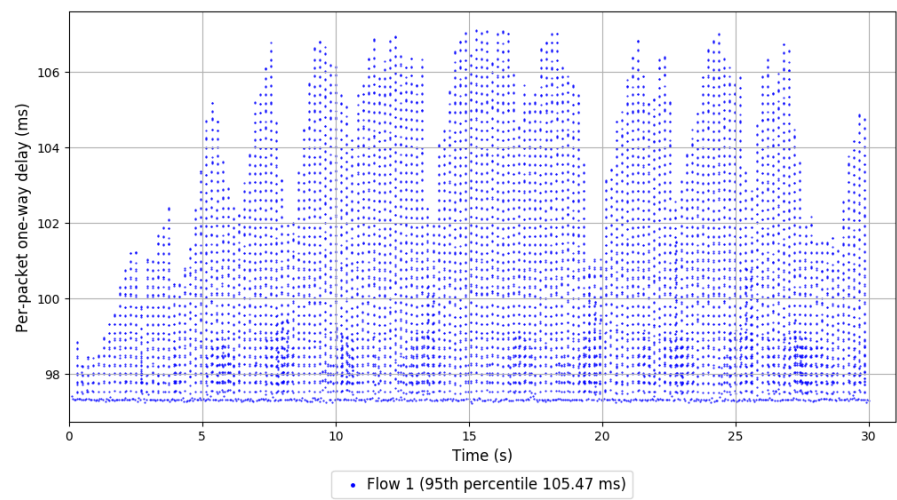
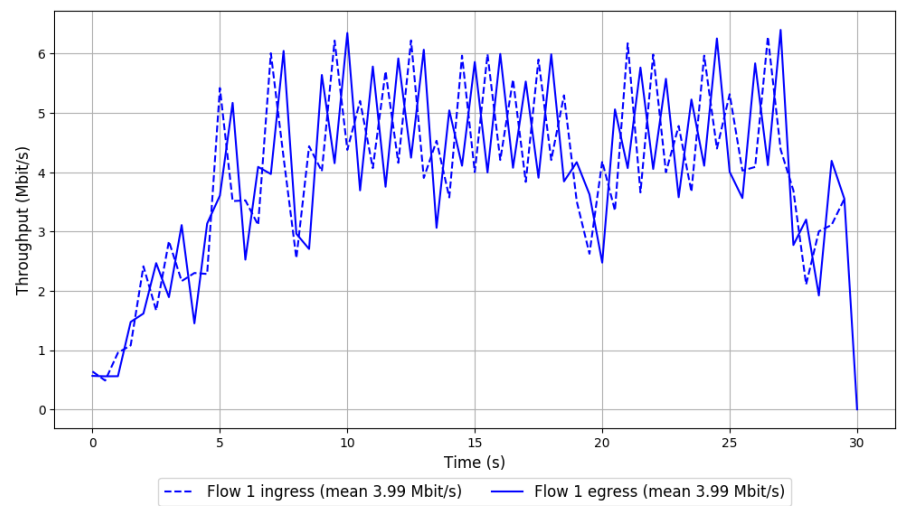
-- Flow 1:

Average throughput: 3.99 Mbit/s

95th percentile per-packet one-way delay: 105.470 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

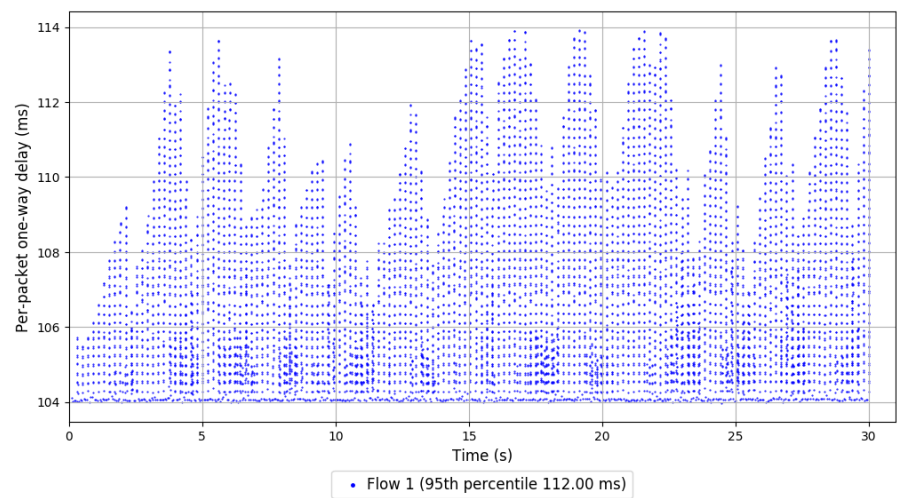
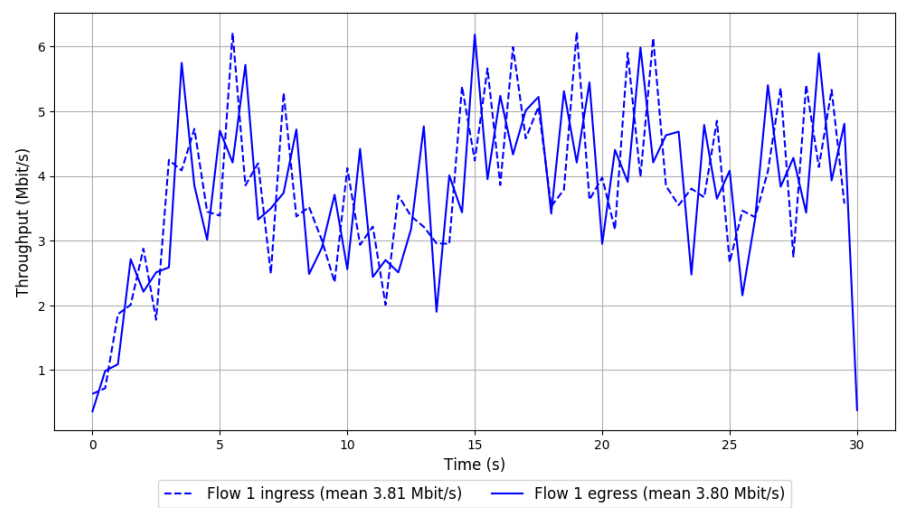


Run 4: Statistics of Sprout

Start at: 2018-04-24 09:47:23
End at: 2018-04-24 09:47:53
Local clock offset: -7.427 ms
Remote clock offset: 6.279 ms

Below is generated by plot.py at 2018-04-24 12:33:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 111.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.80 Mbit/s
95th percentile per-packet one-way delay: 111.997 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-04-24 10:08:24

End at: 2018-04-24 10:08:54

Local clock offset: -6.566 ms

Remote clock offset: 2.353 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 104.124 ms

Loss rate: 0.00%

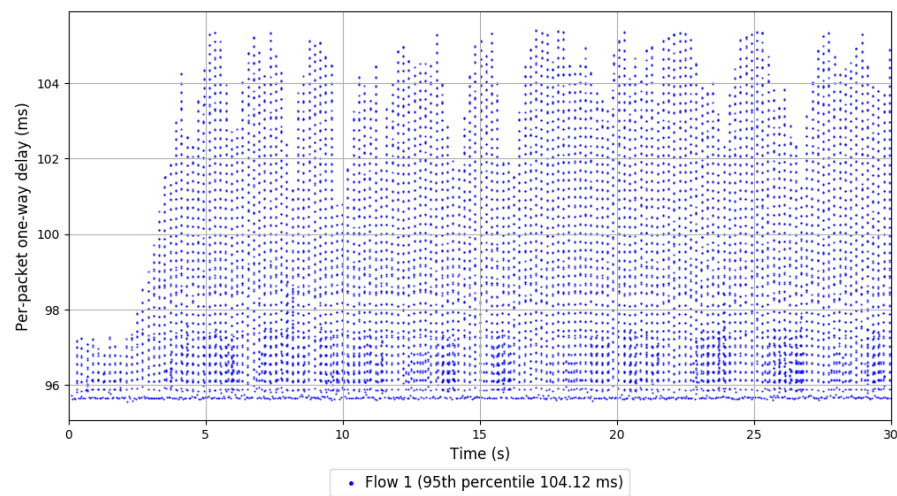
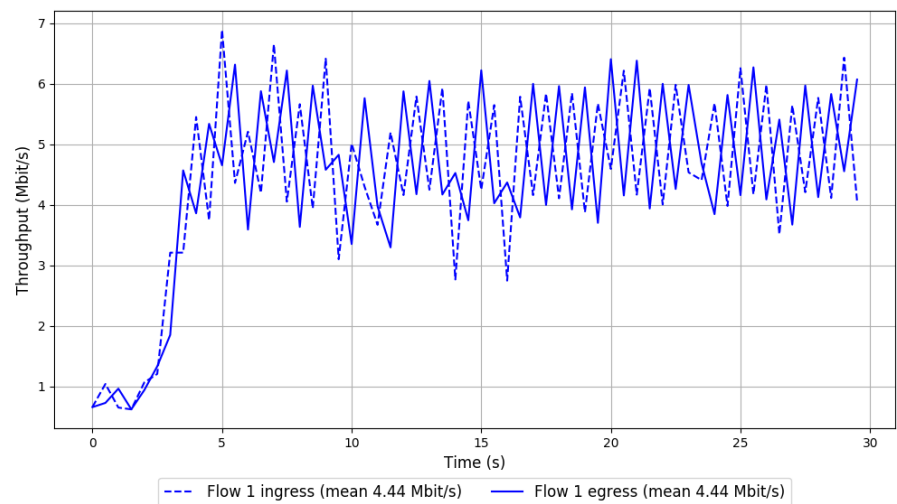
-- Flow 1:

Average throughput: 4.44 Mbit/s

95th percentile per-packet one-way delay: 104.124 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-04-24 10:29:26

End at: 2018-04-24 10:29:56

Local clock offset: -7.242 ms

Remote clock offset: 5.424 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 110.950 ms

Loss rate: 0.00%

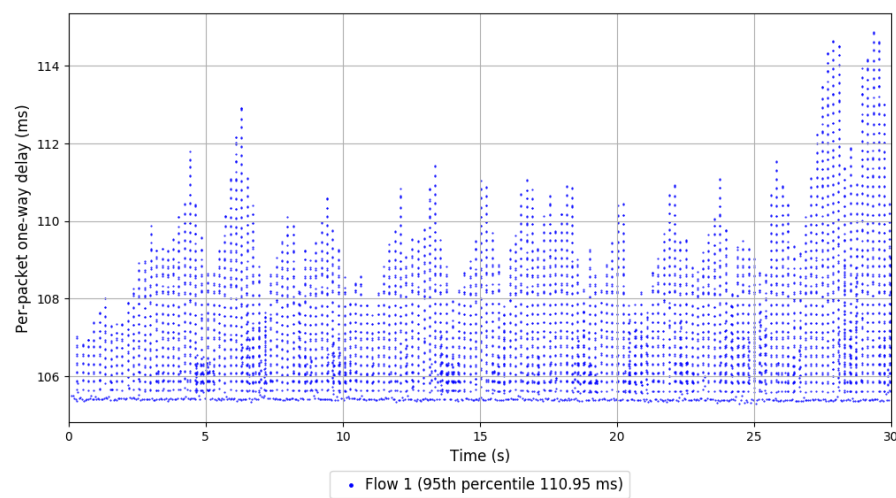
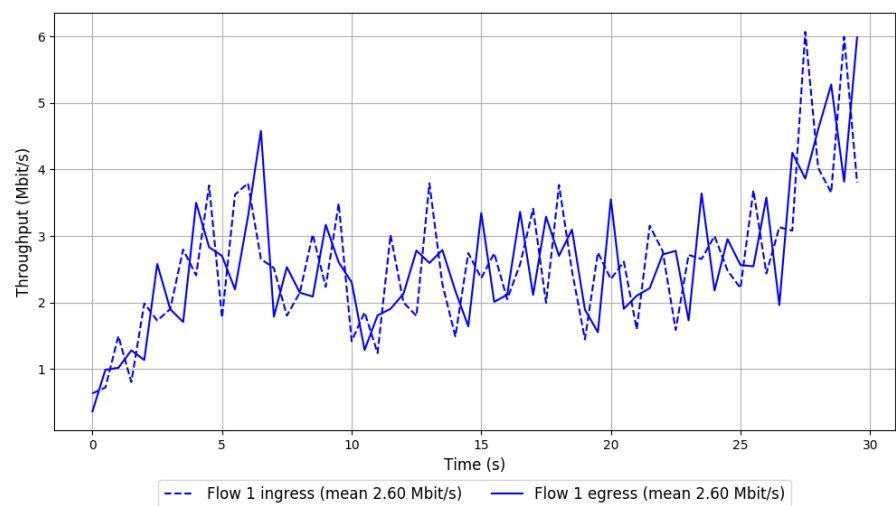
-- Flow 1:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 110.950 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

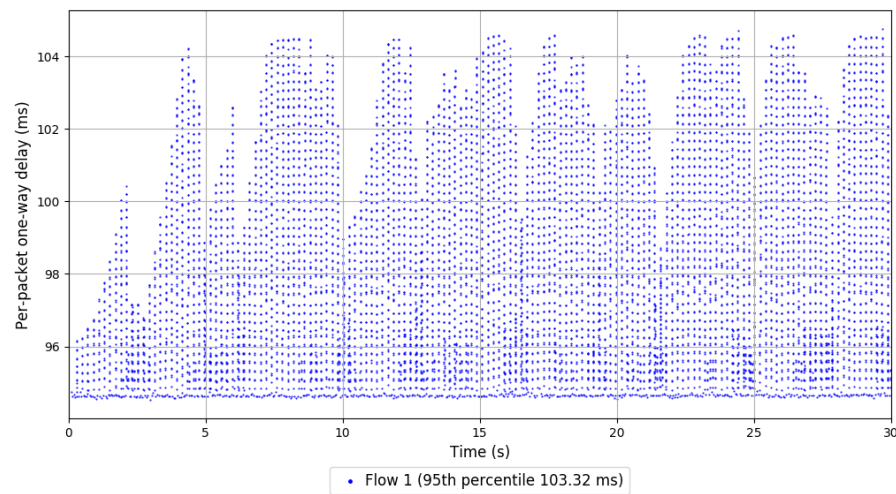
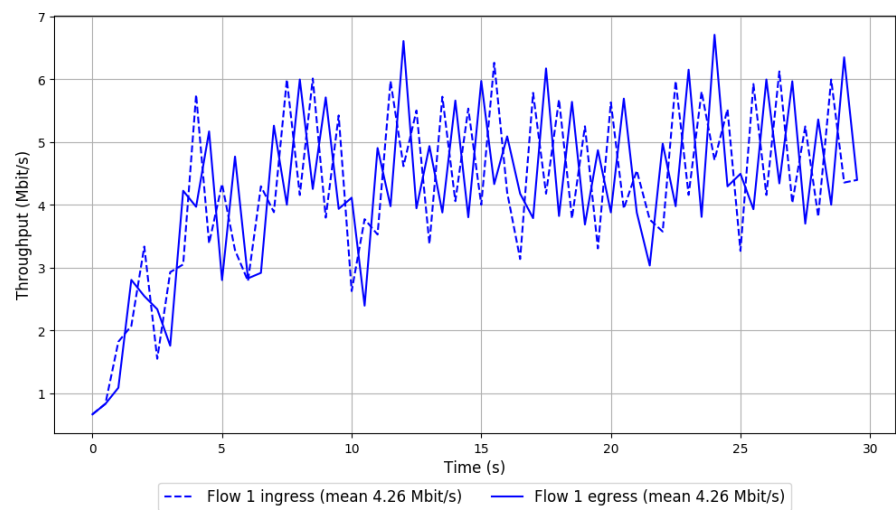


Run 7: Statistics of Sprout

Start at: 2018-04-24 10:50:13
End at: 2018-04-24 10:50:43
Local clock offset: -6.158 ms
Remote clock offset: 2.816 ms

Below is generated by plot.py at 2018-04-24 12:33:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 103.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.26 Mbit/s
95th percentile per-packet one-way delay: 103.321 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-04-24 11:11:21

End at: 2018-04-24 11:11:51

Local clock offset: -5.462 ms

Remote clock offset: 2.06 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 102.745 ms

Loss rate: 0.00%

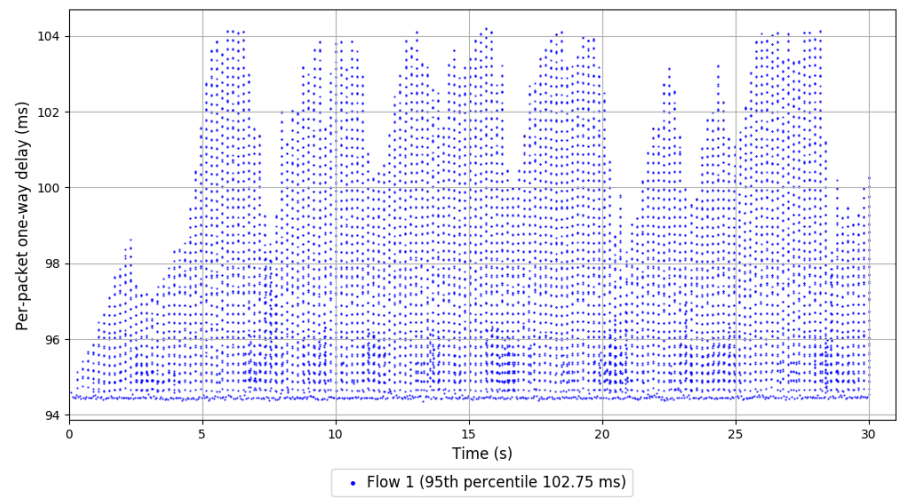
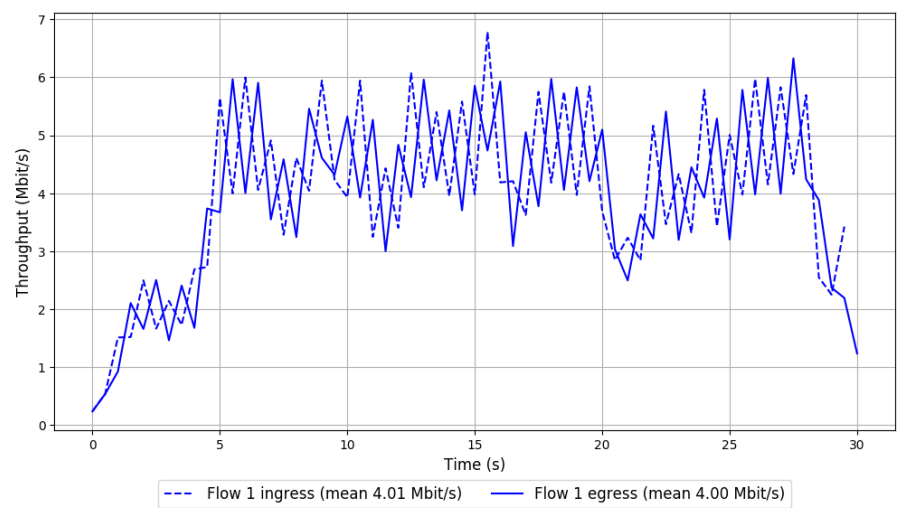
-- Flow 1:

Average throughput: 4.00 Mbit/s

95th percentile per-packet one-way delay: 102.745 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-04-24 11:32:31

End at: 2018-04-24 11:33:01

Local clock offset: -7.205 ms

Remote clock offset: 6.59 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 112.843 ms

Loss rate: 0.00%

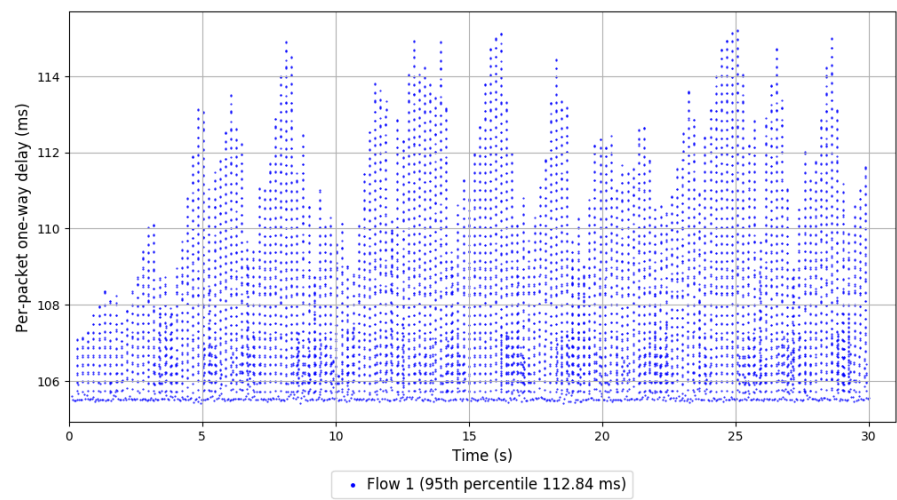
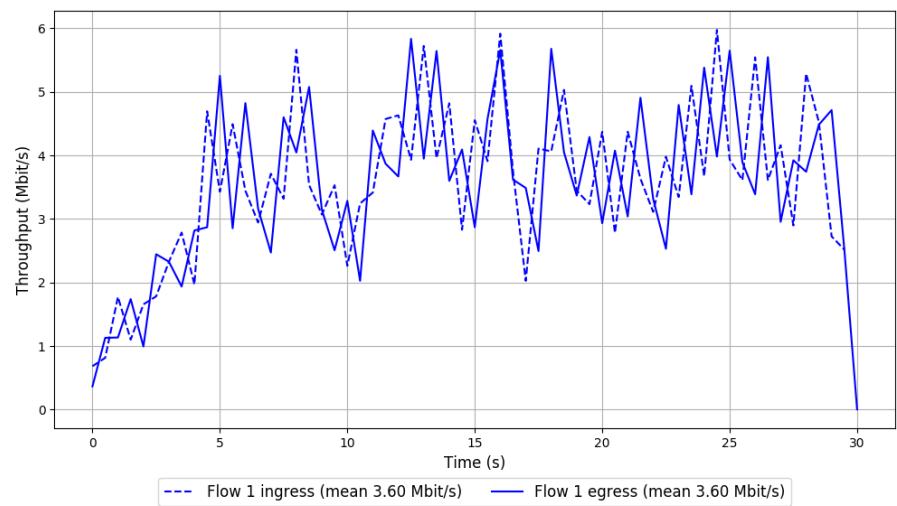
-- Flow 1:

Average throughput: 3.60 Mbit/s

95th percentile per-packet one-way delay: 112.843 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-04-24 11:53:36

End at: 2018-04-24 11:54:06

Local clock offset: -5.812 ms

Remote clock offset: 6.243 ms

Below is generated by plot.py at 2018-04-24 12:33:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 107.908 ms

Loss rate: 0.00%

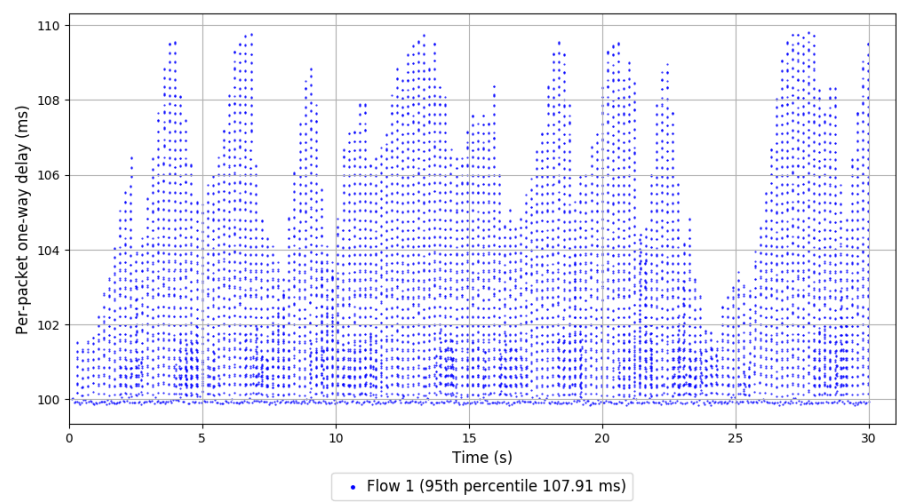
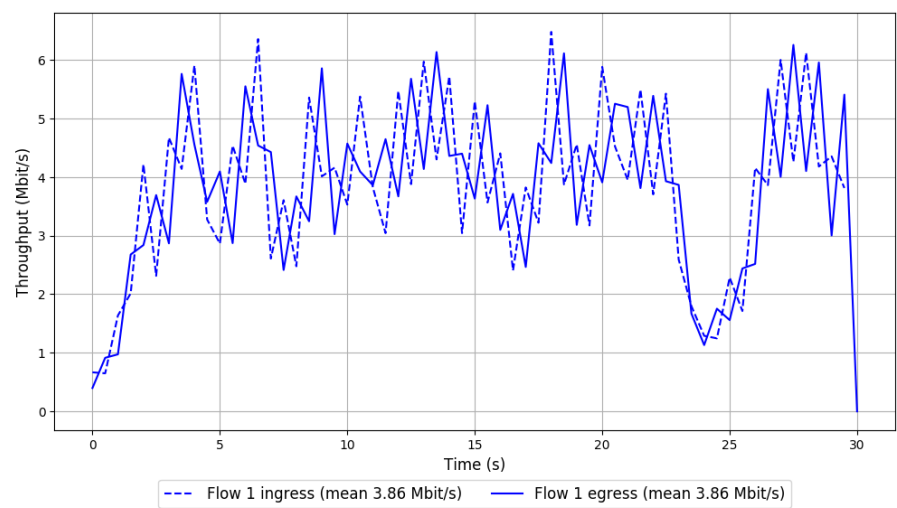
-- Flow 1:

Average throughput: 3.86 Mbit/s

95th percentile per-packet one-way delay: 107.908 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

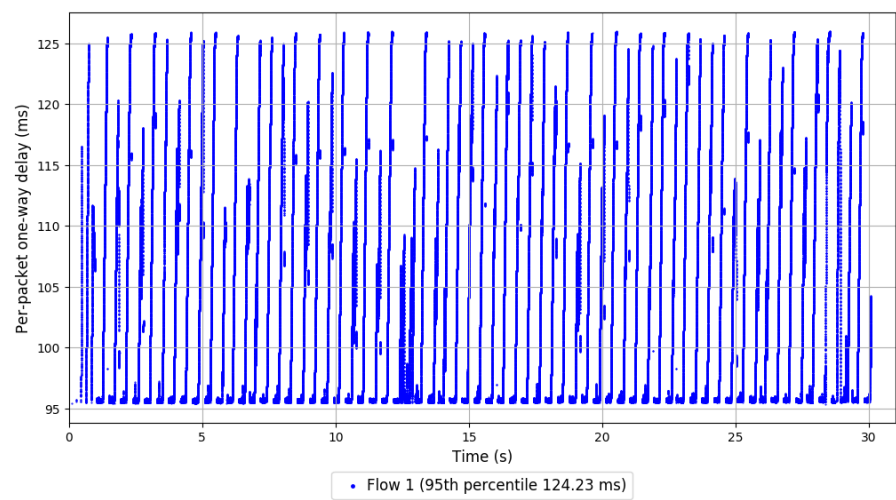
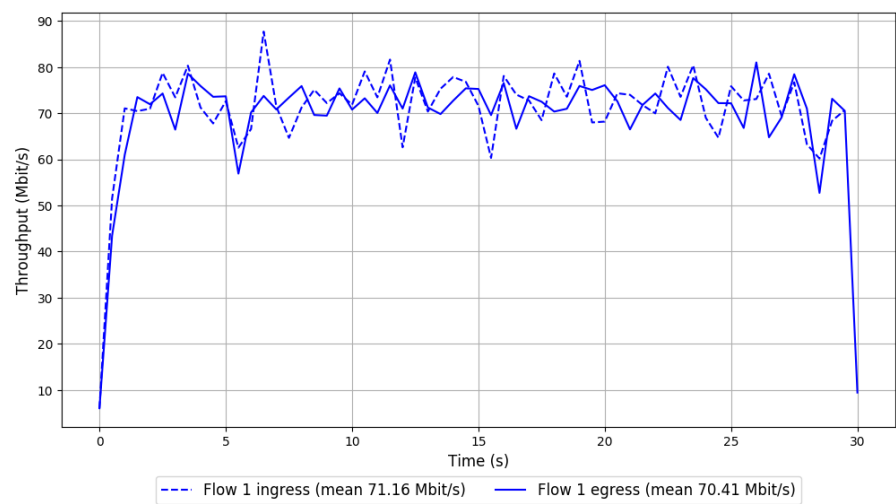


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-04-24 08:47:53
End at: 2018-04-24 08:48:23
Local clock offset: -5.926 ms
Remote clock offset: 3.017 ms

# Below is generated by plot.py at 2018-04-24 12:34:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 124.233 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 70.41 Mbit/s
95th percentile per-packet one-way delay: 124.233 ms
Loss rate: 1.03%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-04-24 09:08:56

End at: 2018-04-24 09:09:26

Local clock offset: -7.434 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-04-24 12:34:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 125.765 ms

Loss rate: 1.02%

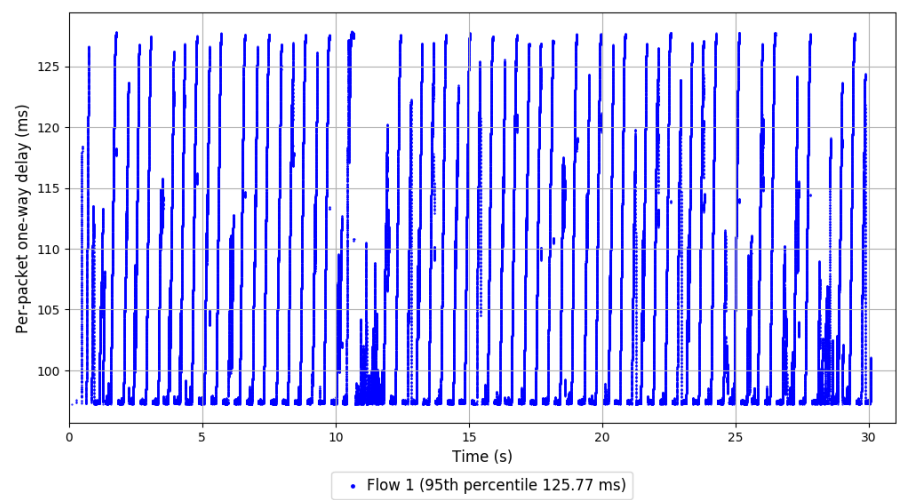
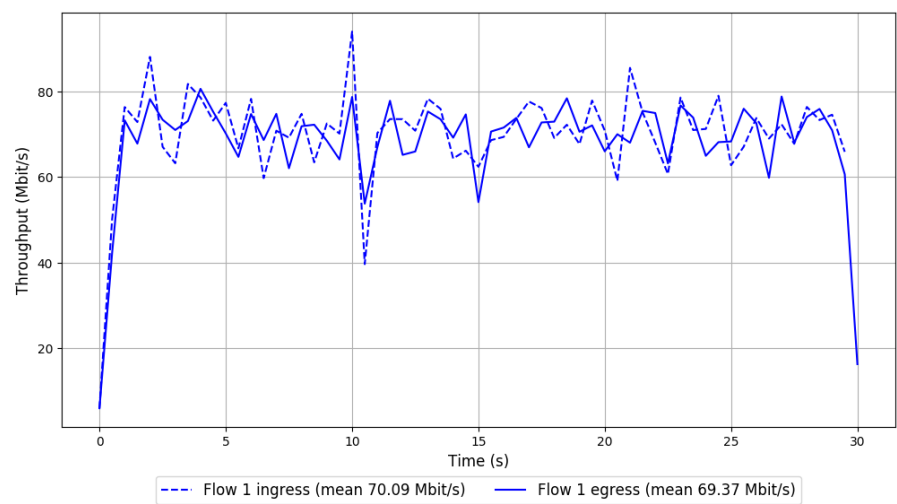
-- Flow 1:

Average throughput: 69.37 Mbit/s

95th percentile per-packet one-way delay: 125.765 ms

Loss rate: 1.02%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-04-24 09:30:02

End at: 2018-04-24 09:30:32

Local clock offset: -7.51 ms

Remote clock offset: 7.271 ms

Below is generated by plot.py at 2018-04-24 12:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 130.095 ms

Loss rate: 1.06%

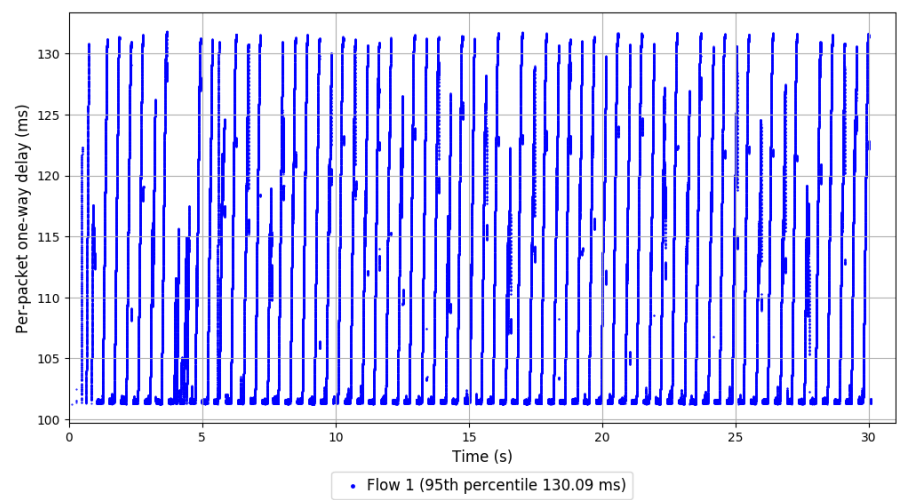
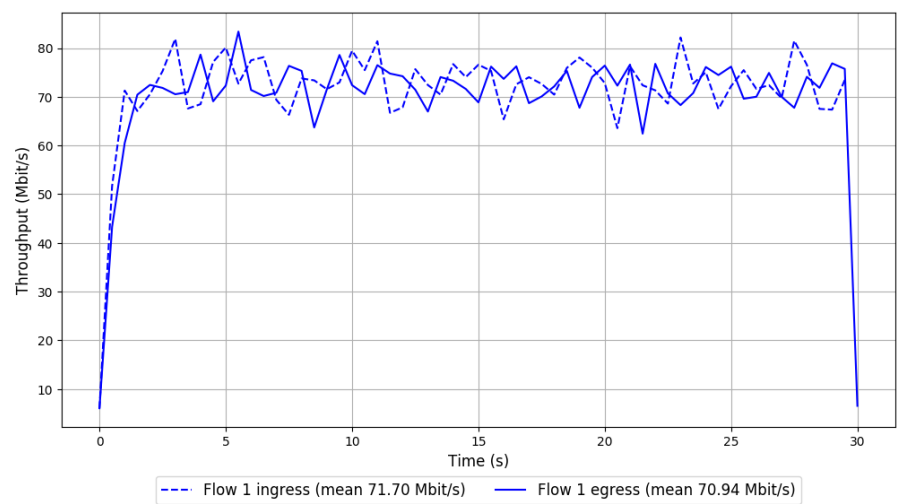
-- Flow 1:

Average throughput: 70.94 Mbit/s

95th percentile per-packet one-way delay: 130.095 ms

Loss rate: 1.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-04-24 09:51:04

End at: 2018-04-24 09:51:34

Local clock offset: -6.67 ms

Remote clock offset: 2.484 ms

Below is generated by plot.py at 2018-04-24 12:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 131.754 ms

Loss rate: 1.18%

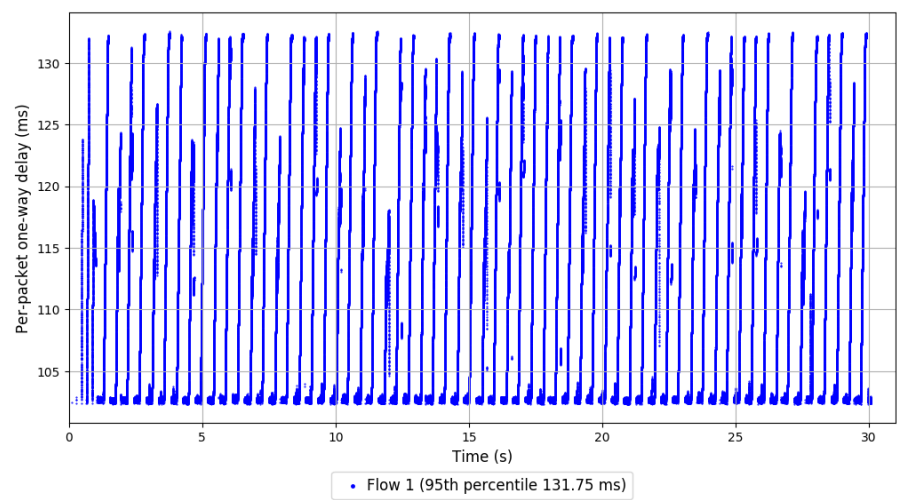
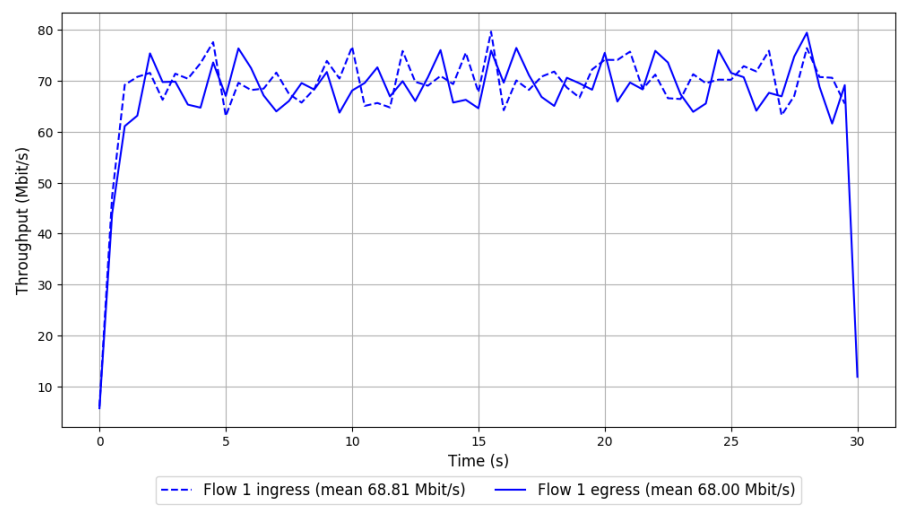
-- Flow 1:

Average throughput: 68.00 Mbit/s

95th percentile per-packet one-way delay: 131.754 ms

Loss rate: 1.18%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-04-24 10:12:05

End at: 2018-04-24 10:12:35

Local clock offset: -7.389 ms

Remote clock offset: 6.903 ms

Below is generated by plot.py at 2018-04-24 12:34:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 138.570 ms

Loss rate: 1.27%

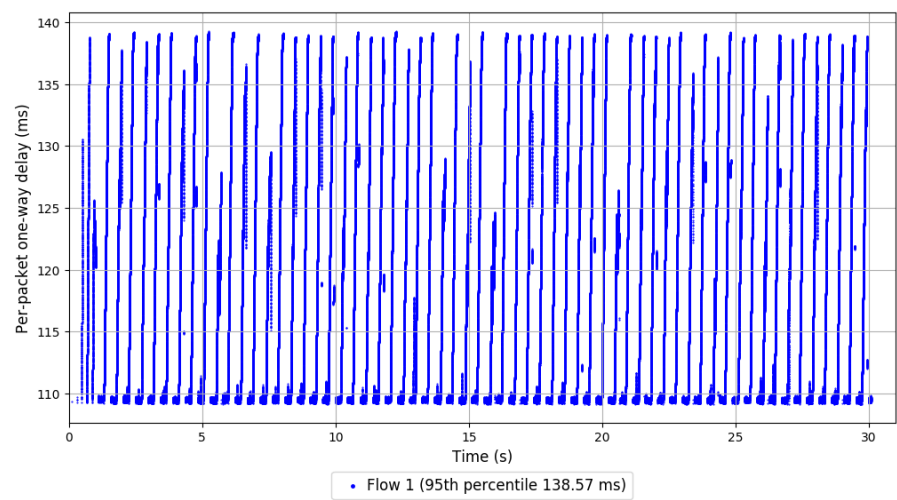
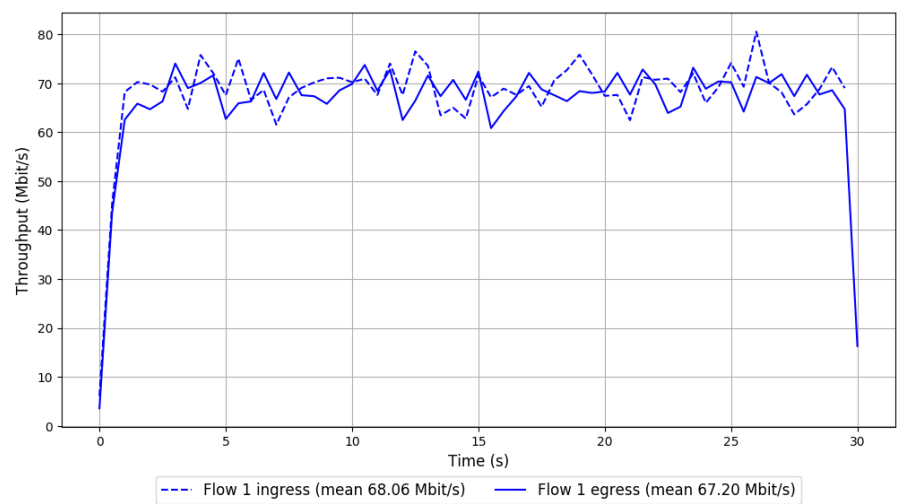
-- Flow 1:

Average throughput: 67.20 Mbit/s

95th percentile per-packet one-way delay: 138.570 ms

Loss rate: 1.27%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-04-24 10:33:07

End at: 2018-04-24 10:33:37

Local clock offset: -6.522 ms

Remote clock offset: 6.388 ms

Below is generated by plot.py at 2018-04-24 12:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.42 Mbit/s

95th percentile per-packet one-way delay: 127.792 ms

Loss rate: 1.09%

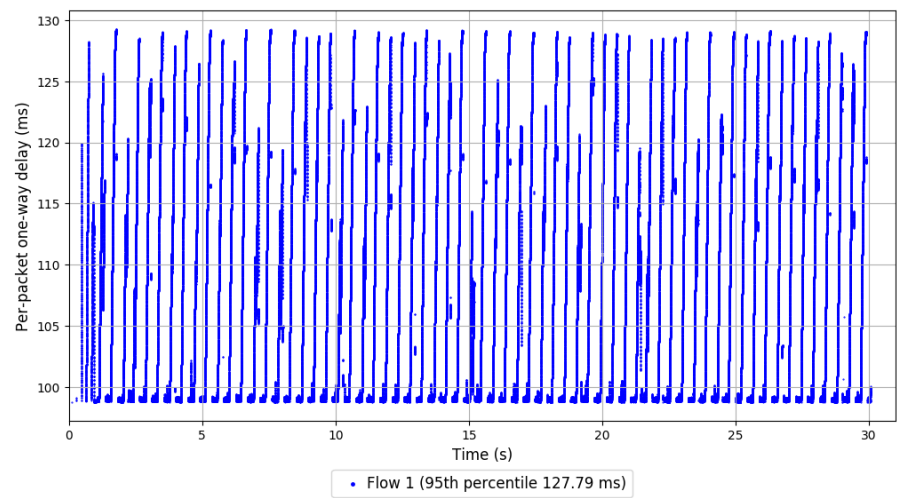
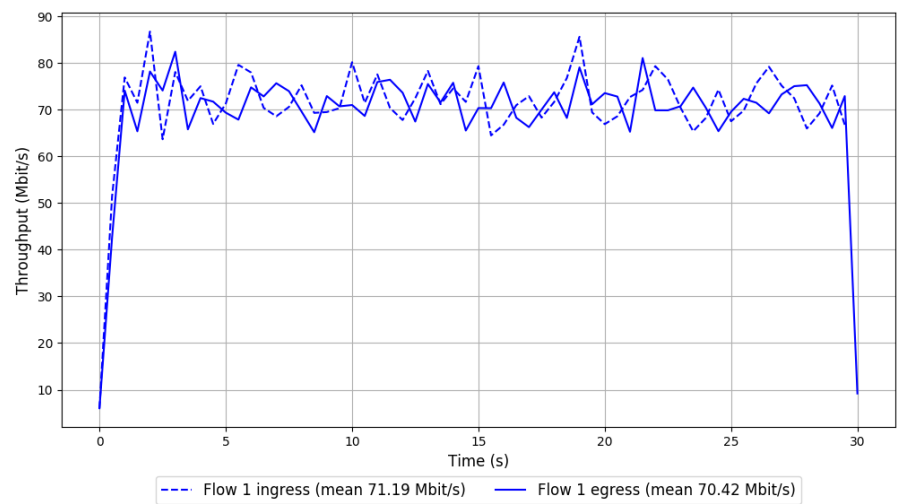
-- Flow 1:

Average throughput: 70.42 Mbit/s

95th percentile per-packet one-way delay: 127.792 ms

Loss rate: 1.09%

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

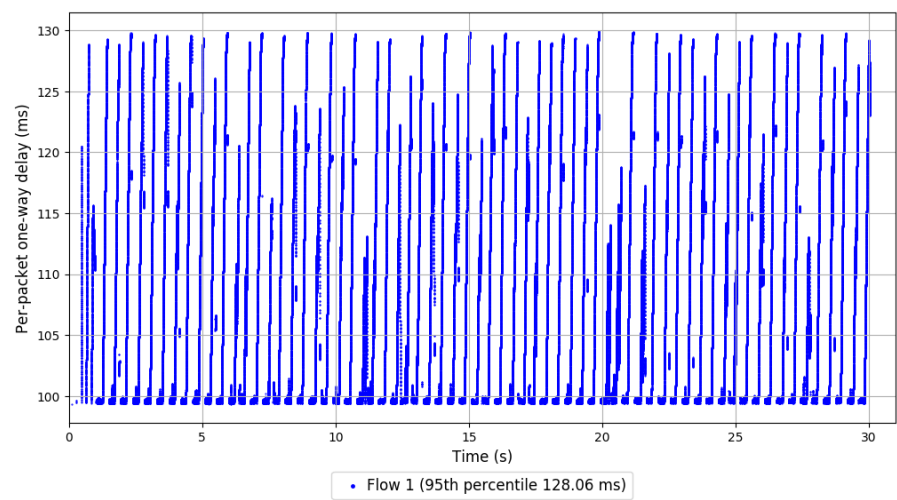
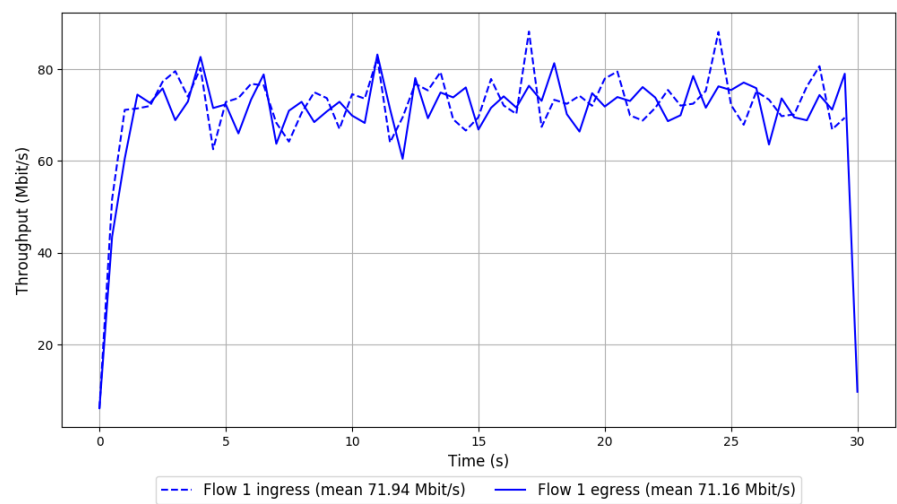


Run 7: Statistics of TaoVA-100x

Start at: 2018-04-24 10:53:54
End at: 2018-04-24 10:54:25
Local clock offset: -6.63 ms
Remote clock offset: 6.678 ms

Below is generated by plot.py at 2018-04-24 12:35:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 71.16 Mbit/s
95th percentile per-packet one-way delay: 128.058 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 71.16 Mbit/s
95th percentile per-packet one-way delay: 128.058 ms
Loss rate: 1.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-04-24 11:15:03

End at: 2018-04-24 11:15:33

Local clock offset: -5.365 ms

Remote clock offset: 6.549 ms

Below is generated by plot.py at 2018-04-24 12:35:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 128.002 ms

Loss rate: 1.23%

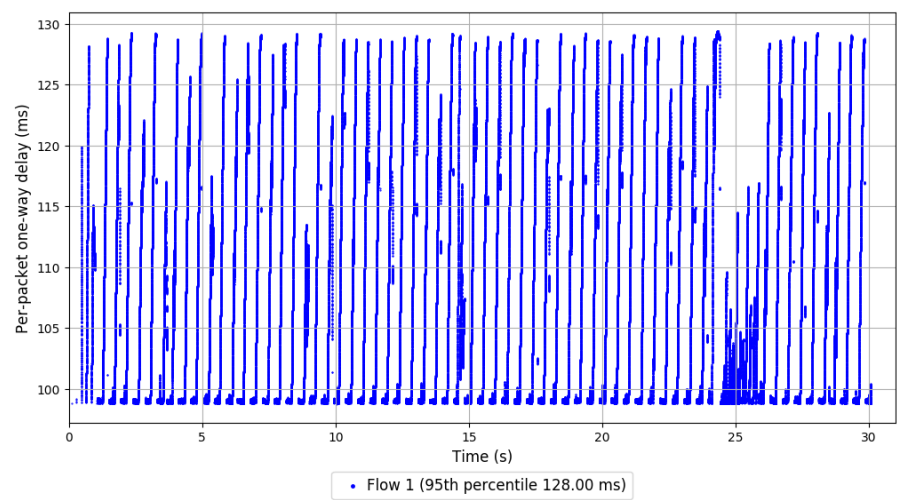
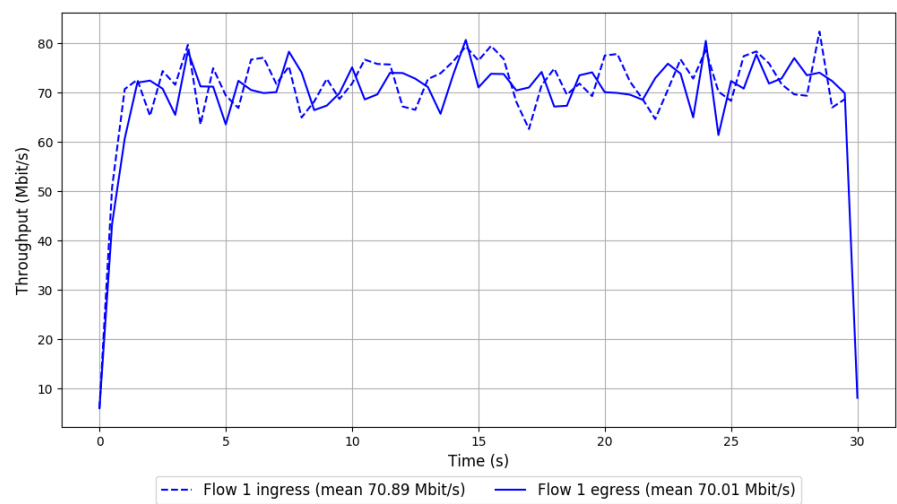
-- Flow 1:

Average throughput: 70.01 Mbit/s

95th percentile per-packet one-way delay: 128.002 ms

Loss rate: 1.23%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-04-24 11:36:13

End at: 2018-04-24 11:36:43

Local clock offset: -5.703 ms

Remote clock offset: 6.572 ms

Below is generated by plot.py at 2018-04-24 12:36:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 134.873 ms

Loss rate: 1.21%

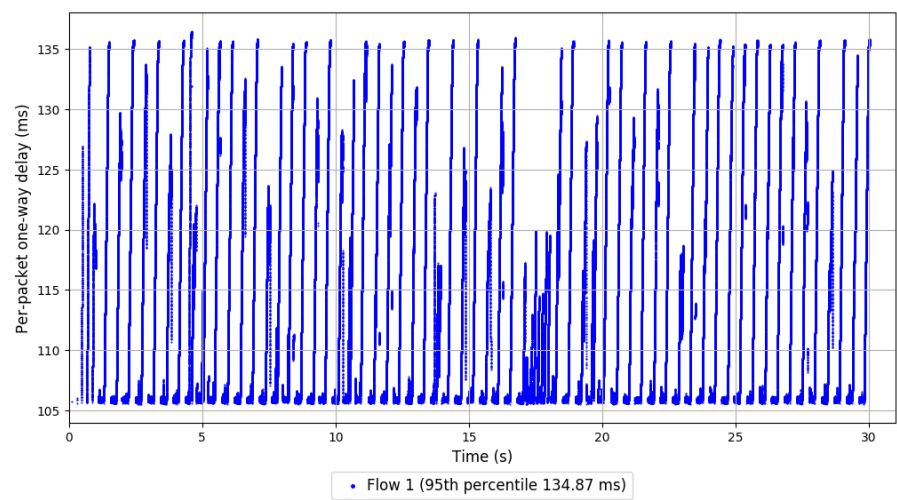
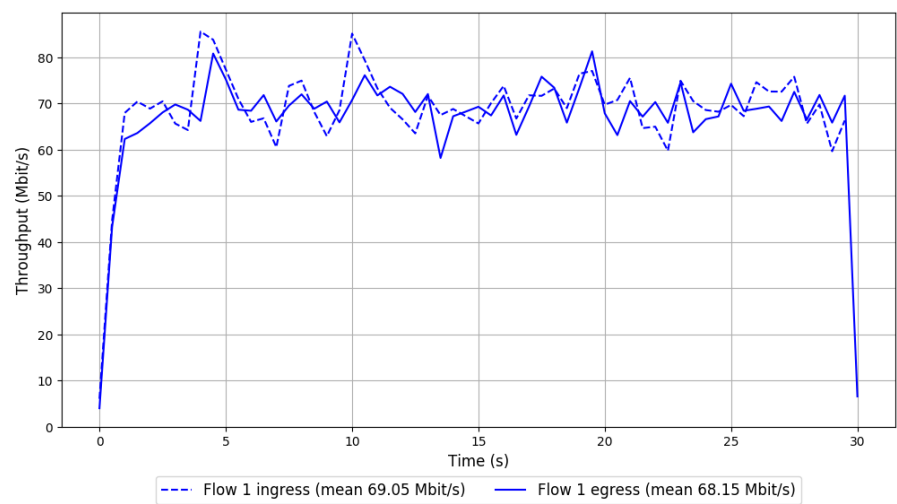
-- Flow 1:

Average throughput: 68.15 Mbit/s

95th percentile per-packet one-way delay: 134.873 ms

Loss rate: 1.21%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-04-24 11:57:18

End at: 2018-04-24 11:57:48

Local clock offset: -5.969 ms

Remote clock offset: 2.359 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.37 Mbit/s

95th percentile per-packet one-way delay: 125.335 ms

Loss rate: 1.04%

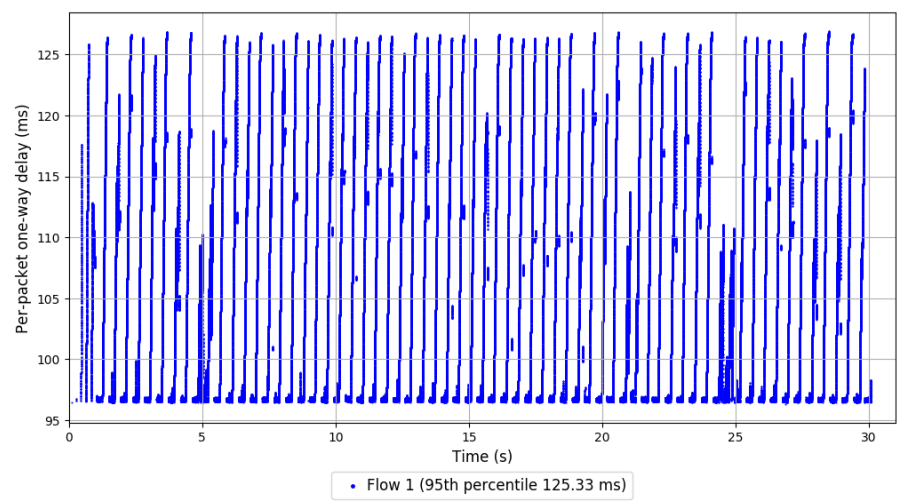
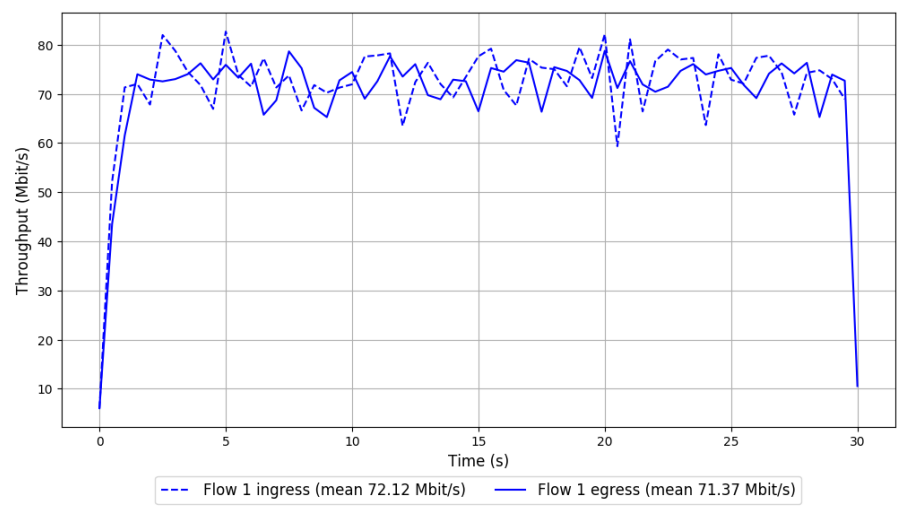
-- Flow 1:

Average throughput: 71.37 Mbit/s

95th percentile per-packet one-way delay: 125.335 ms

Loss rate: 1.04%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-04-24 08:40:39

End at: 2018-04-24 08:41:09

Local clock offset: -7.718 ms

Remote clock offset: 4.278 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 97.104 ms

Loss rate: 0.31%

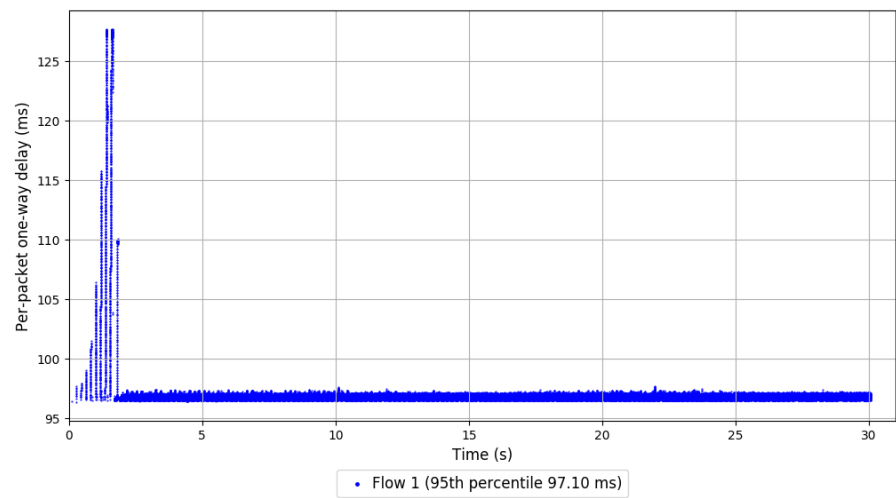
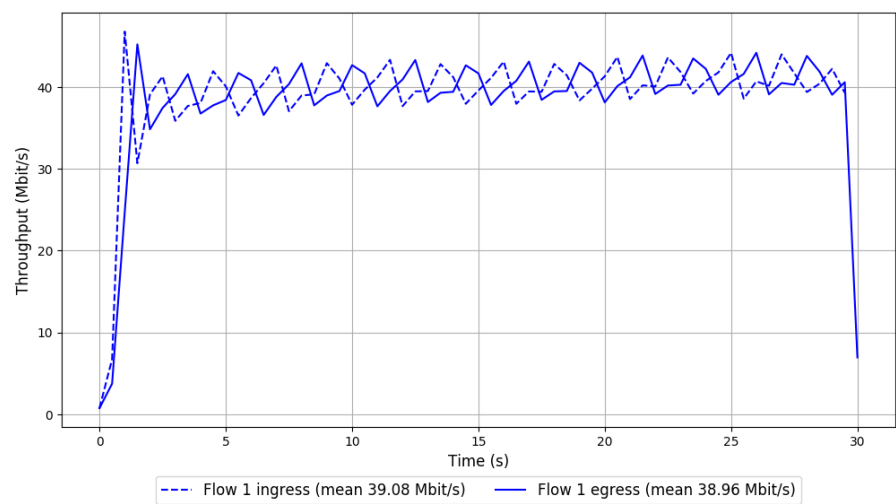
-- Flow 1:

Average throughput: 38.96 Mbit/s

95th percentile per-packet one-way delay: 97.104 ms

Loss rate: 0.31%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-04-24 09:01:42

End at: 2018-04-24 09:02:12

Local clock offset: -6.023 ms

Remote clock offset: 2.129 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.41 Mbit/s

95th percentile per-packet one-way delay: 101.604 ms

Loss rate: 0.31%

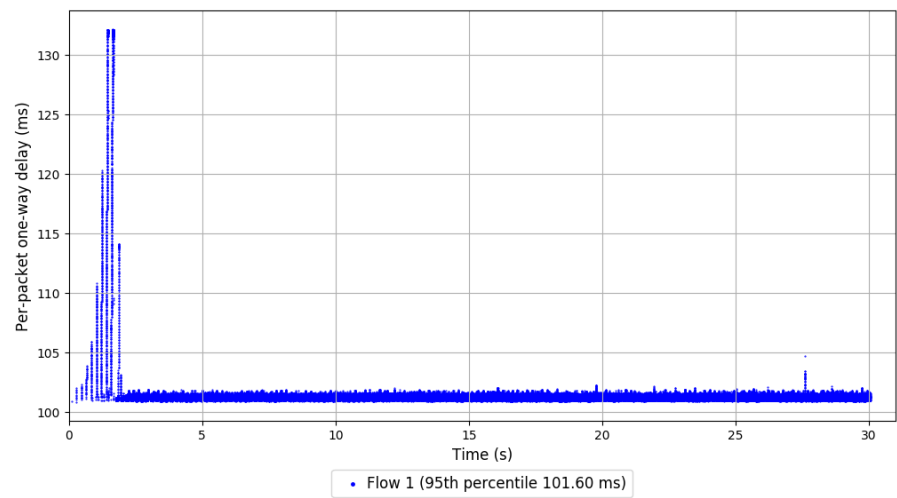
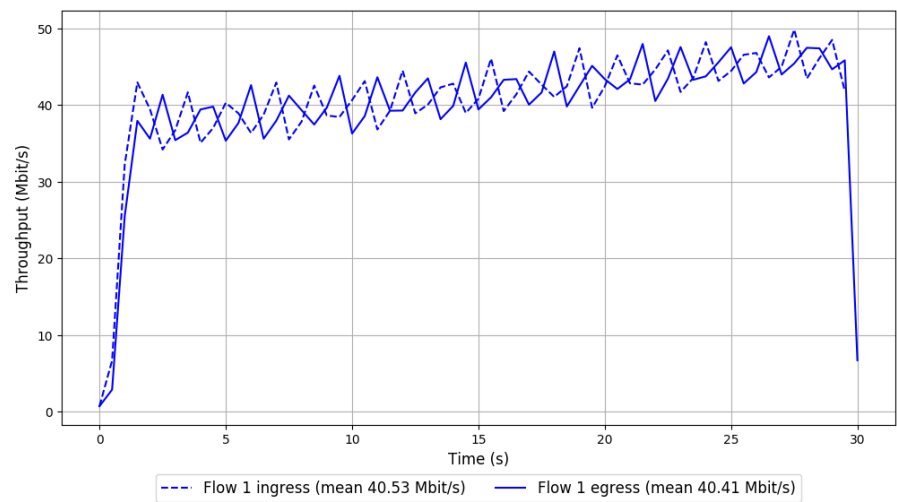
-- Flow 1:

Average throughput: 40.41 Mbit/s

95th percentile per-packet one-way delay: 101.604 ms

Loss rate: 0.31%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-04-24 09:22:47

End at: 2018-04-24 09:23:17

Local clock offset: -6.59 ms

Remote clock offset: 1.806 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 95.904 ms

Loss rate: 0.29%

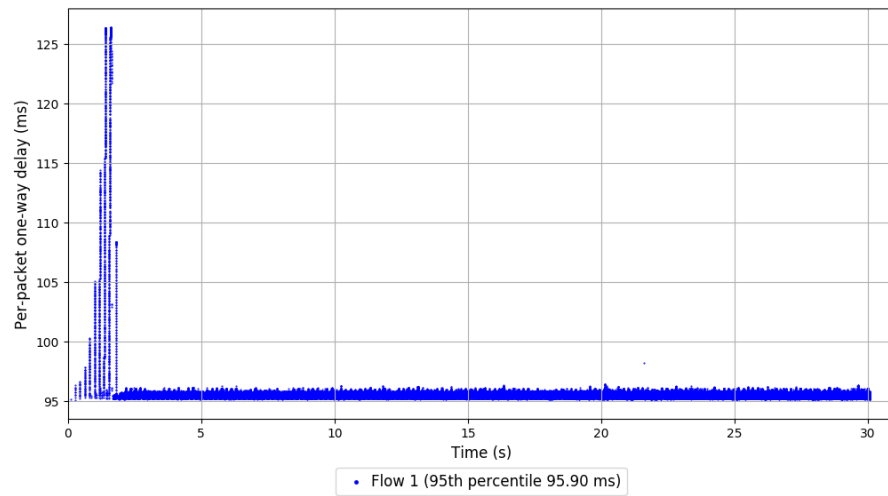
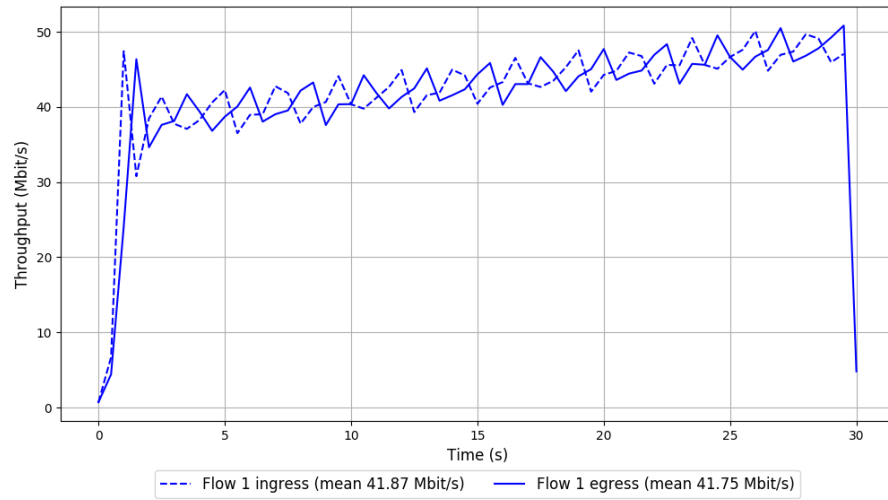
-- Flow 1:

Average throughput: 41.75 Mbit/s

95th percentile per-packet one-way delay: 95.904 ms

Loss rate: 0.29%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-04-24 09:43:50

End at: 2018-04-24 09:44:20

Local clock offset: -7.475 ms

Remote clock offset: 2.498 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 98.951 ms

Loss rate: 0.29%

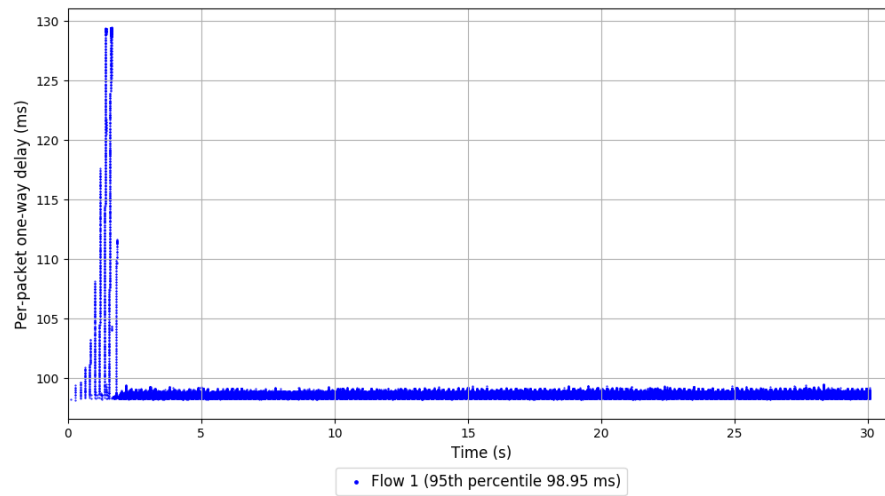
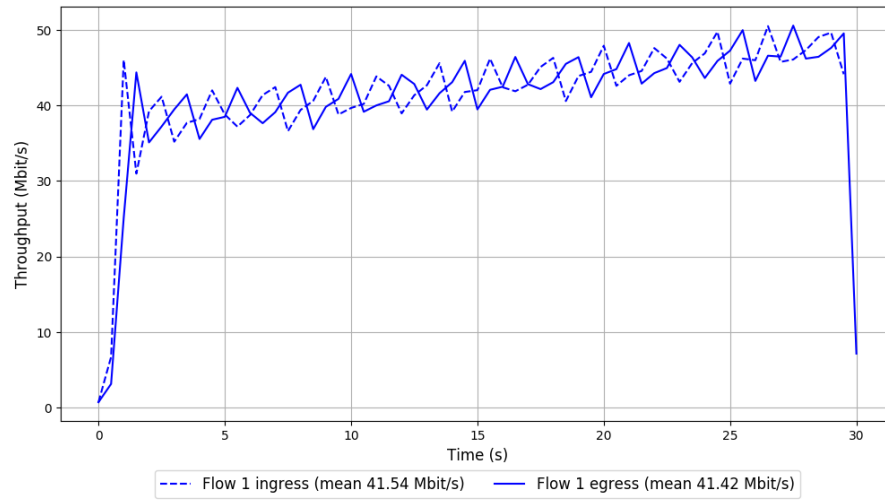
-- Flow 1:

Average throughput: 41.42 Mbit/s

95th percentile per-packet one-way delay: 98.951 ms

Loss rate: 0.29%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-04-24 10:04:52

End at: 2018-04-24 10:05:22

Local clock offset: -6.654 ms

Remote clock offset: 6.22 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 105.254 ms

Loss rate: 0.85%

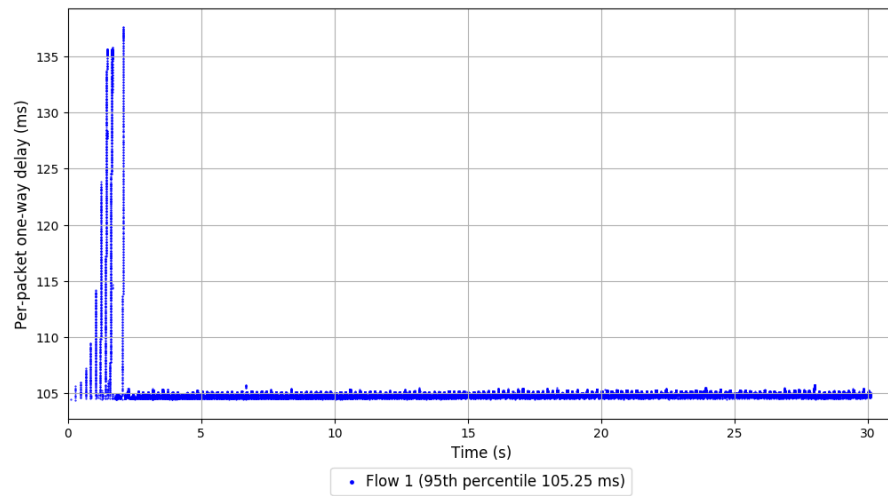
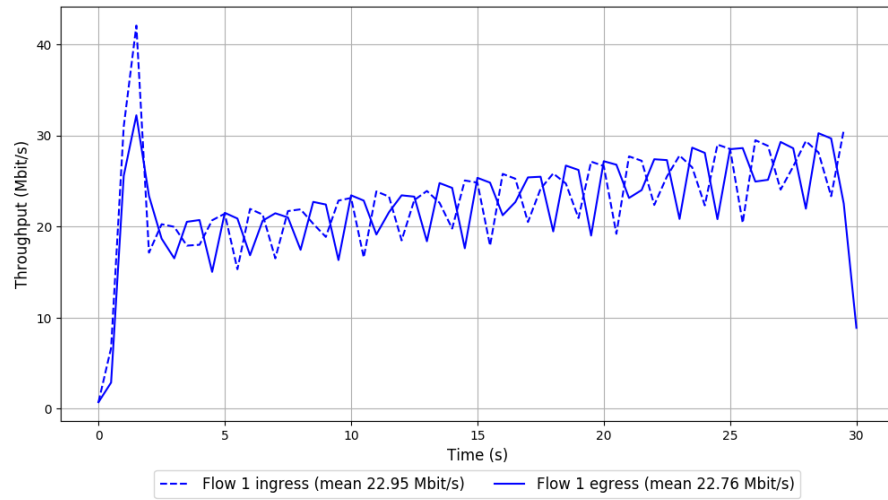
-- Flow 1:

Average throughput: 22.76 Mbit/s

95th percentile per-packet one-way delay: 105.254 ms

Loss rate: 0.85%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-04-24 10:25:53

End at: 2018-04-24 10:26:23

Local clock offset: -7.944 ms

Remote clock offset: 2.263 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 22.39 Mbit/s

95th percentile per-packet one-way delay: 104.242 ms

Loss rate: 0.83%

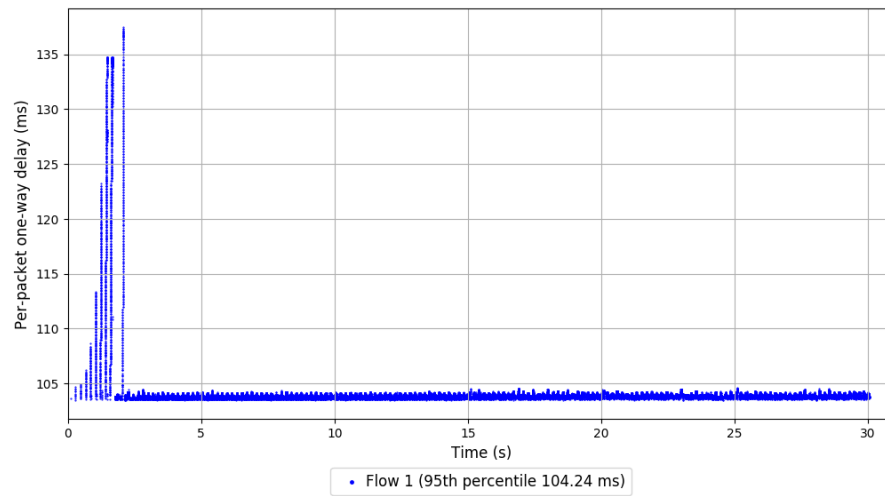
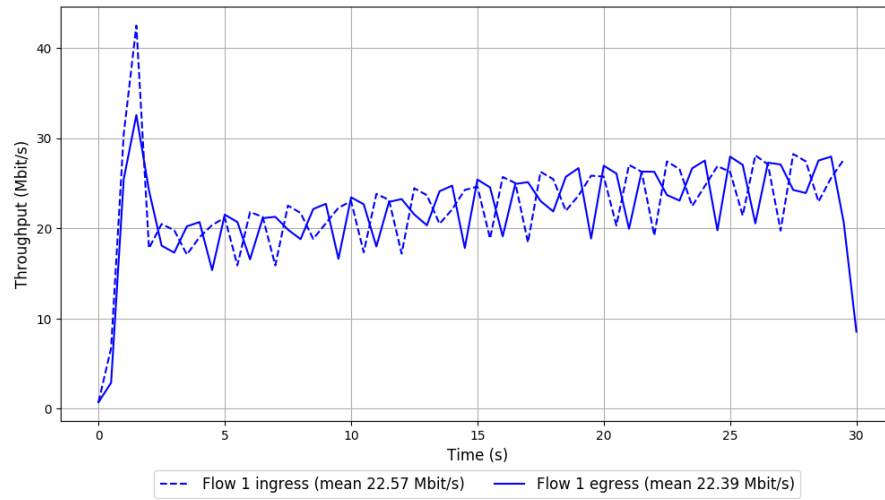
-- Flow 1:

Average throughput: 22.39 Mbit/s

95th percentile per-packet one-way delay: 104.242 ms

Loss rate: 0.83%

Run 6: Report of TCP Vegas — Data Link

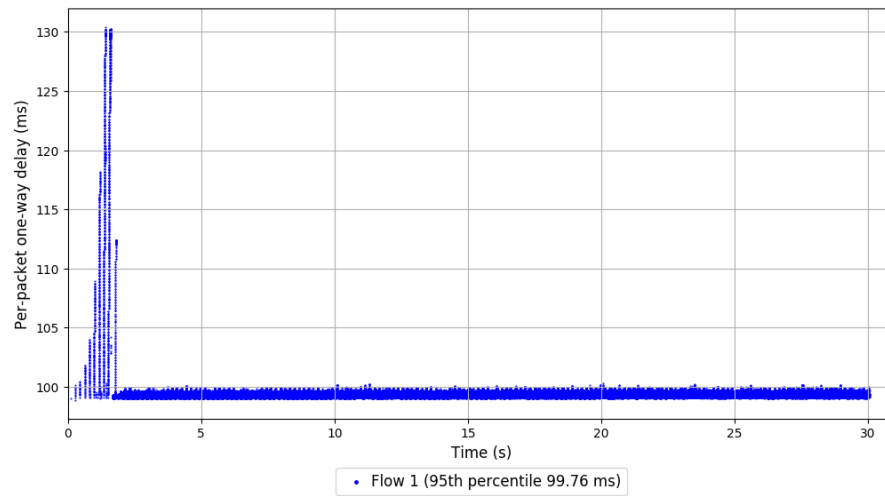
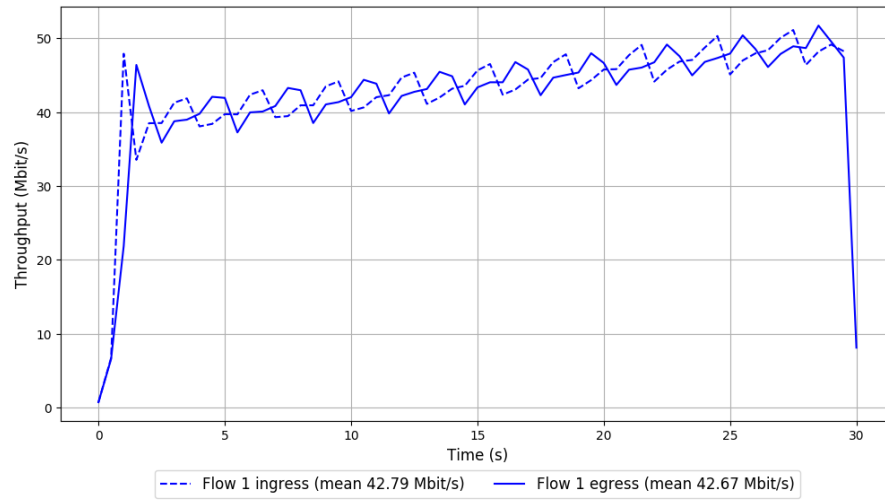


Run 7: Statistics of TCP Vegas

Start at: 2018-04-24 10:46:39
End at: 2018-04-24 10:47:09
Local clock offset: -8.077 ms
Remote clock offset: 6.588 ms

Below is generated by plot.py at 2018-04-24 12:36:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 42.67 Mbit/s
95th percentile per-packet one-way delay: 99.763 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 42.67 Mbit/s
95th percentile per-packet one-way delay: 99.763 ms
Loss rate: 0.29%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-04-24 11:07:48

End at: 2018-04-24 11:08:18

Local clock offset: -6.27 ms

Remote clock offset: 2.82 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 101.826 ms

Loss rate: 0.32%

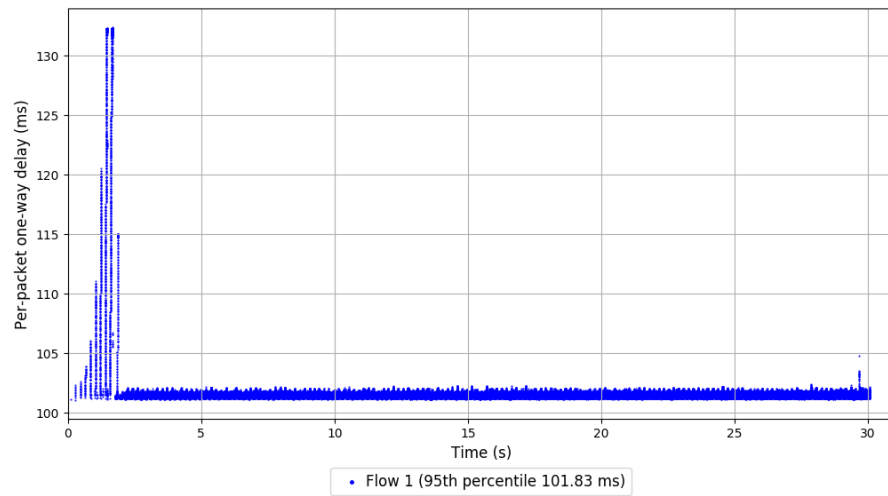
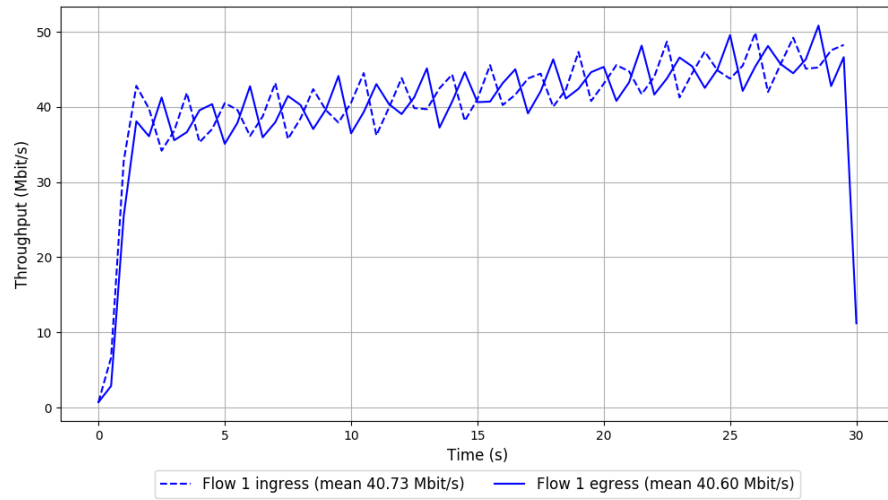
-- Flow 1:

Average throughput: 40.60 Mbit/s

95th percentile per-packet one-way delay: 101.826 ms

Loss rate: 0.32%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-04-24 11:28:57

End at: 2018-04-24 11:29:27

Local clock offset: -5.609 ms

Remote clock offset: 2.807 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 98.994 ms

Loss rate: 0.33%

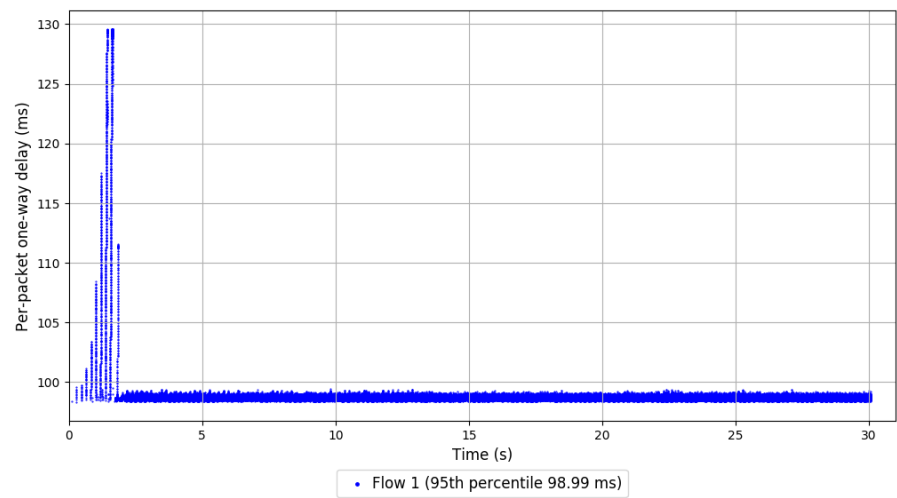
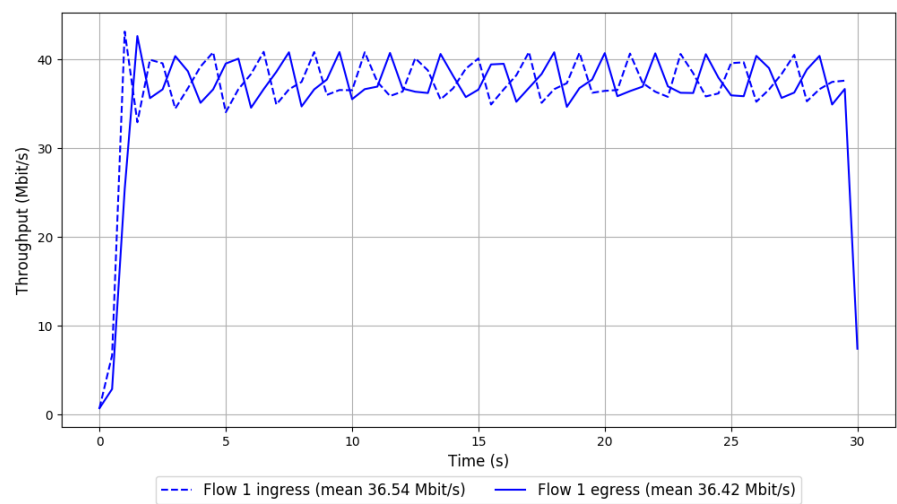
-- Flow 1:

Average throughput: 36.42 Mbit/s

95th percentile per-packet one-way delay: 98.994 ms

Loss rate: 0.33%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-04-24 11:50:04

End at: 2018-04-24 11:50:34

Local clock offset: -7.3 ms

Remote clock offset: 7.081 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 41.36 Mbit/s

95th percentile per-packet one-way delay: 104.994 ms

Loss rate: 0.29%

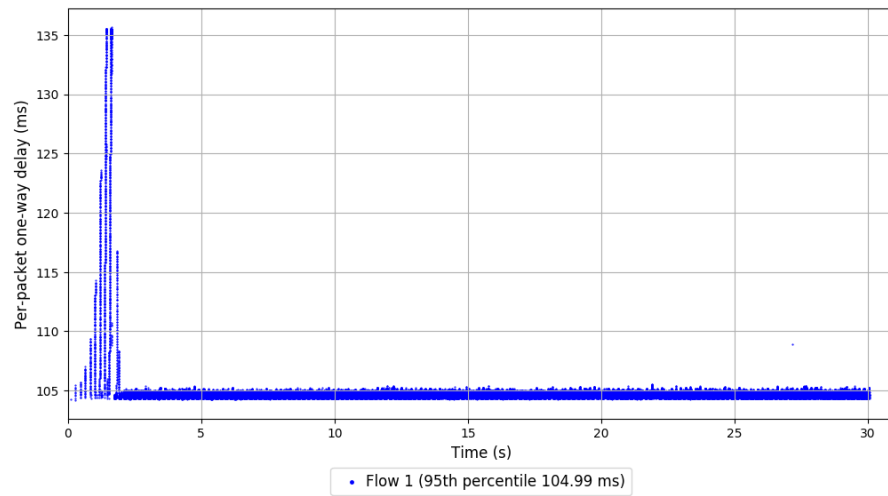
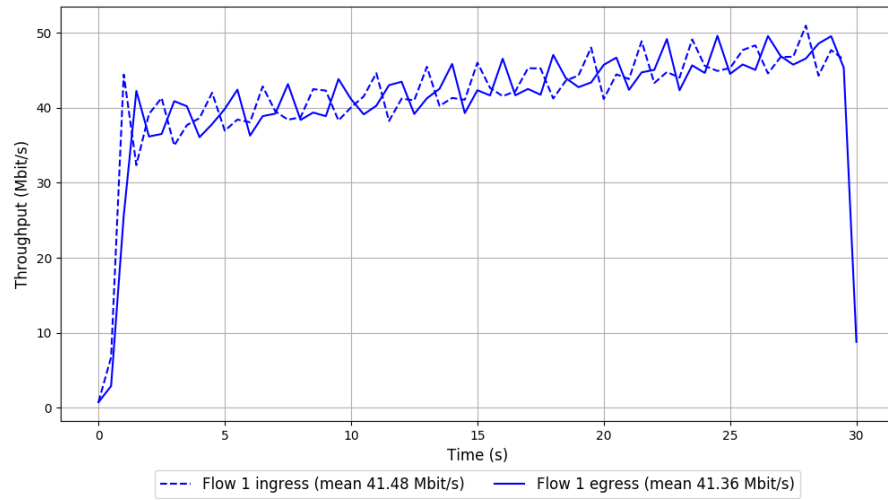
-- Flow 1:

Average throughput: 41.36 Mbit/s

95th percentile per-packet one-way delay: 104.994 ms

Loss rate: 0.29%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-04-24 08:53:10

End at: 2018-04-24 08:53:40

Local clock offset: -5.942 ms

Remote clock offset: 2.578 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 133.281 ms

Loss rate: 8.34%

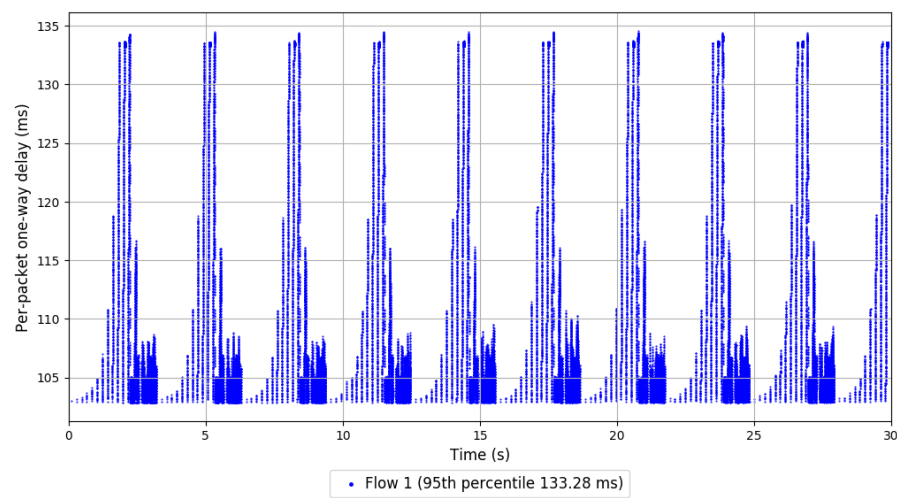
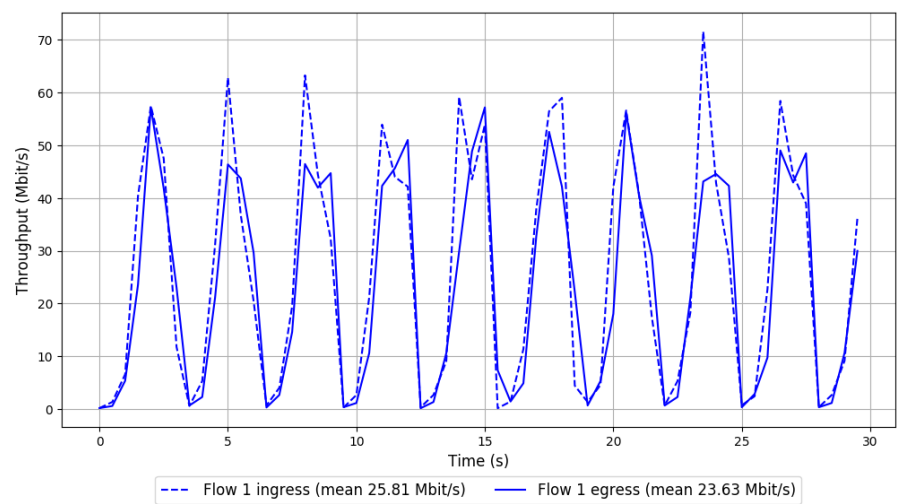
-- Flow 1:

Average throughput: 23.63 Mbit/s

95th percentile per-packet one-way delay: 133.281 ms

Loss rate: 8.34%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-04-24 09:14:12

End at: 2018-04-24 09:14:42

Local clock offset: -5.842 ms

Remote clock offset: 2.606 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 131.282 ms

Loss rate: 46.87%

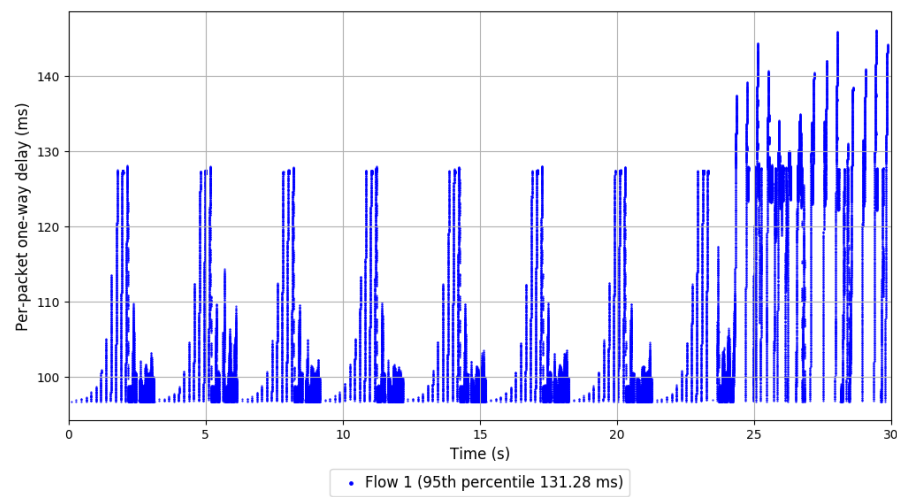
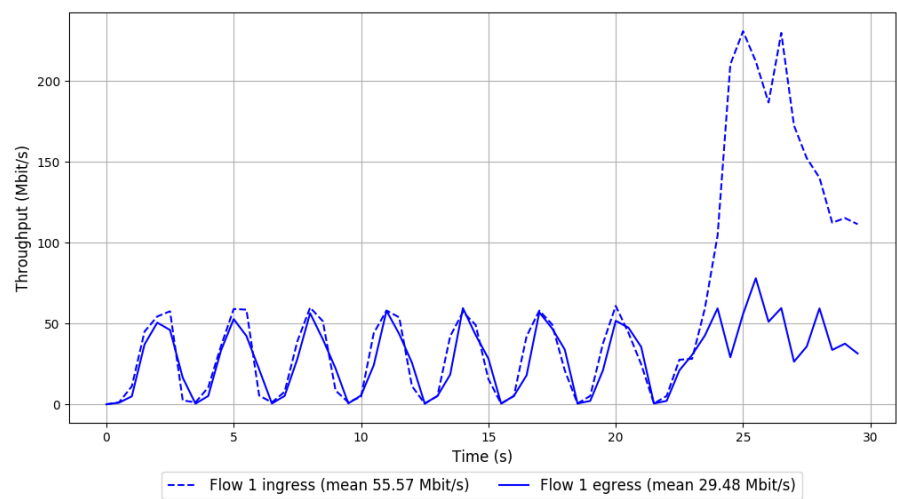
-- Flow 1:

Average throughput: 29.48 Mbit/s

95th percentile per-packet one-way delay: 131.282 ms

Loss rate: 46.87%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-04-24 09:35:18

End at: 2018-04-24 09:35:48

Local clock offset: -6.677 ms

Remote clock offset: 6.471 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 129.868 ms

Loss rate: 9.52%

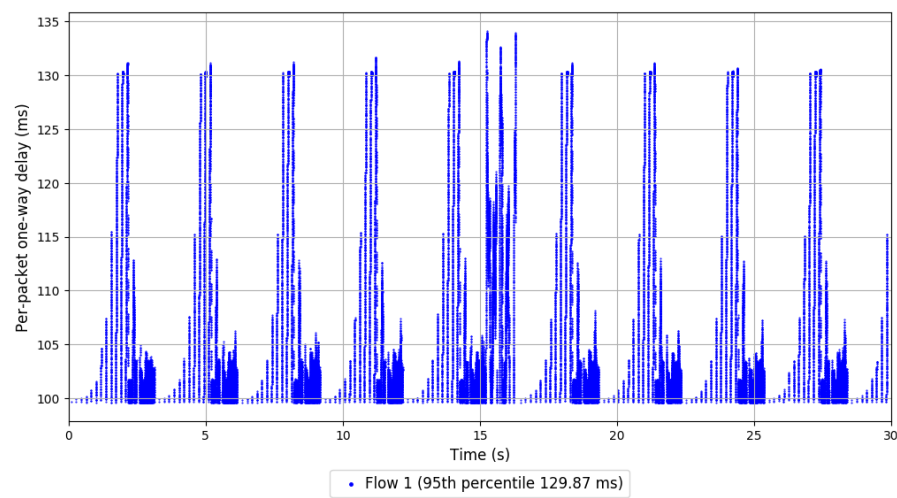
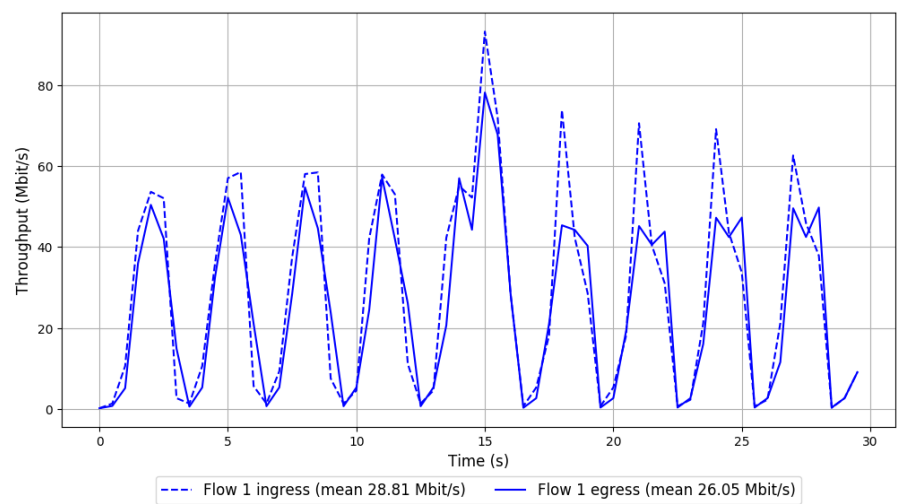
-- Flow 1:

Average throughput: 26.05 Mbit/s

95th percentile per-packet one-way delay: 129.868 ms

Loss rate: 9.52%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-04-24 09:56:20

End at: 2018-04-24 09:56:50

Local clock offset: -6.671 ms

Remote clock offset: 2.451 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 127.086 ms

Loss rate: 9.39%

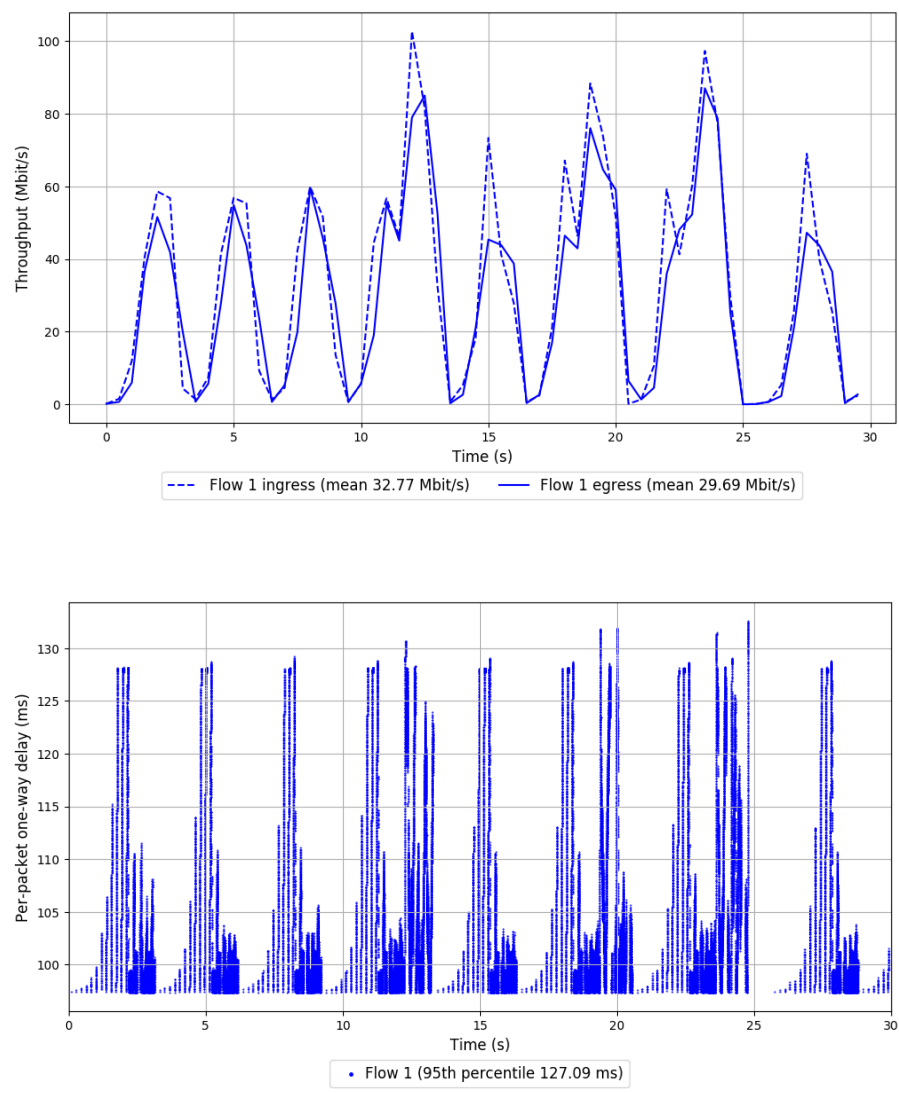
-- Flow 1:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 127.086 ms

Loss rate: 9.39%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-04-24 10:17:21

End at: 2018-04-24 10:17:51

Local clock offset: -7.655 ms

Remote clock offset: 6.043 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 7.97%

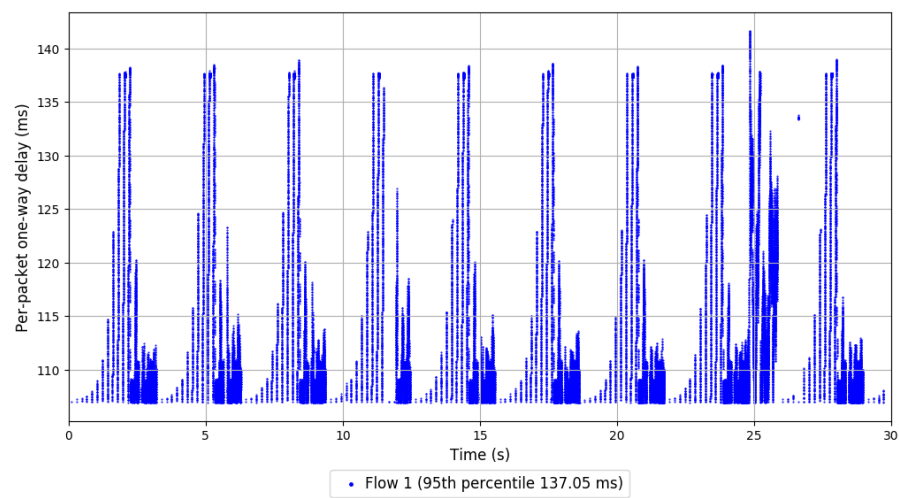
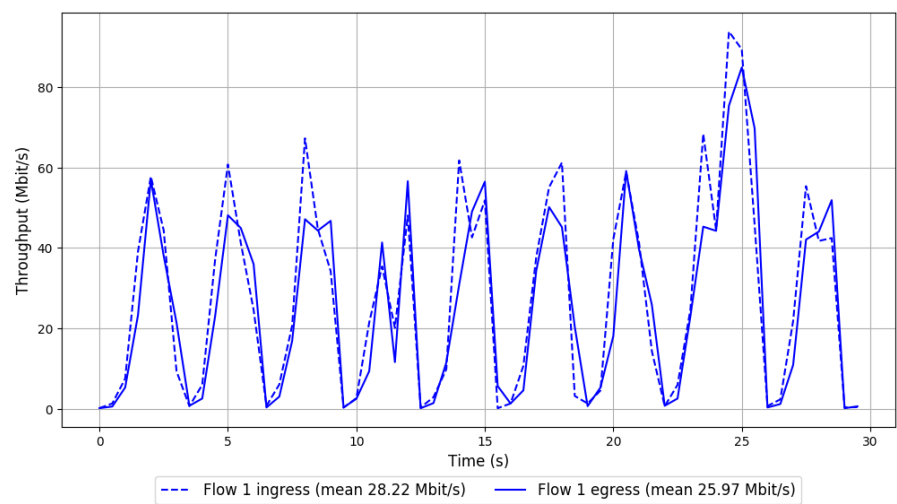
-- Flow 1:

Average throughput: 25.97 Mbit/s

95th percentile per-packet one-way delay: 137.053 ms

Loss rate: 7.97%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-04-24 10:38:08

End at: 2018-04-24 10:38:38

Local clock offset: -8.186 ms

Remote clock offset: 1.914 ms

Below is generated by plot.py at 2018-04-24 12:36:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 132.360 ms

Loss rate: 7.91%

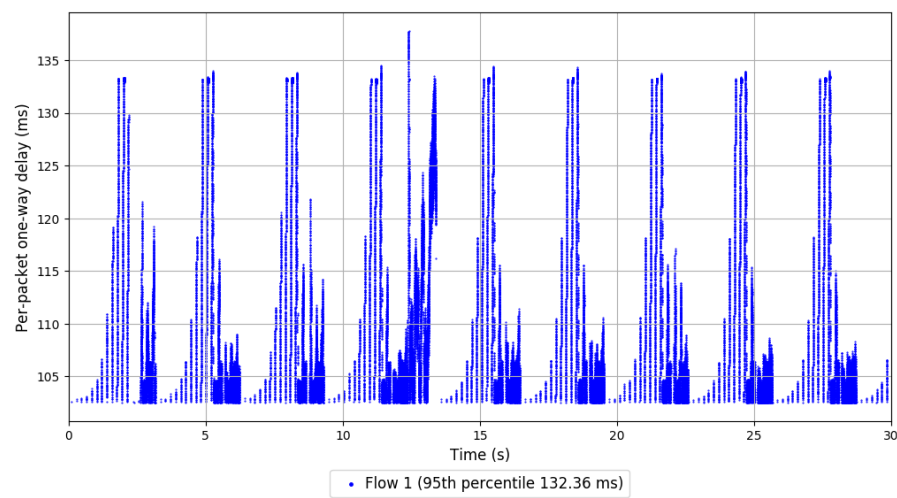
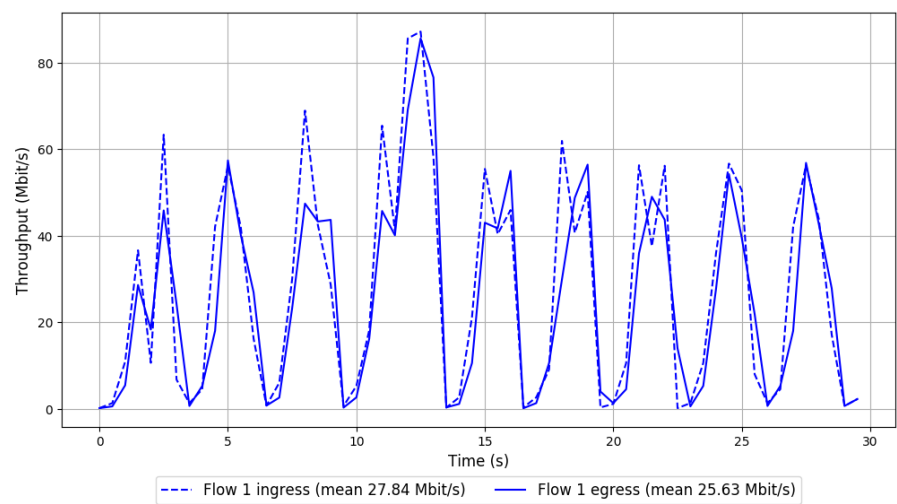
-- Flow 1:

Average throughput: 25.63 Mbit/s

95th percentile per-packet one-way delay: 132.360 ms

Loss rate: 7.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-04-24 10:59:13

End at: 2018-04-24 10:59:43

Local clock offset: -5.688 ms

Remote clock offset: 6.63 ms

Below is generated by plot.py at 2018-04-24 12:36:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 130.696 ms

Loss rate: 8.49%

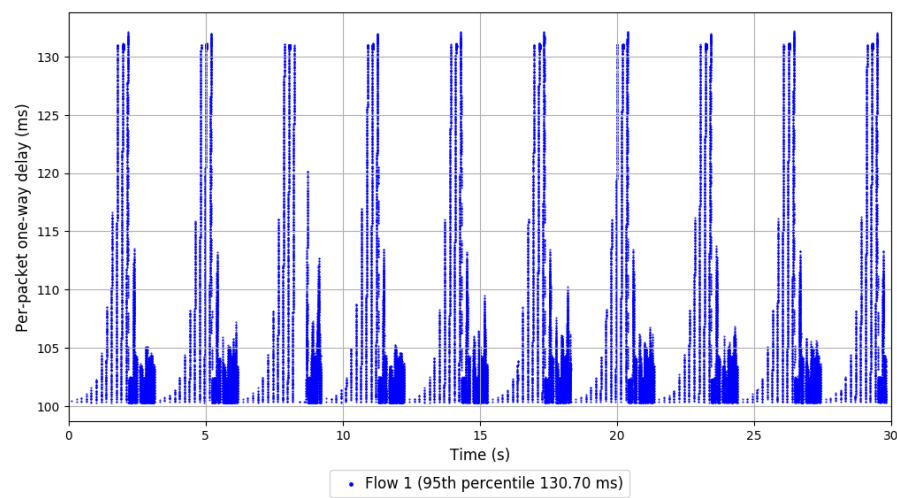
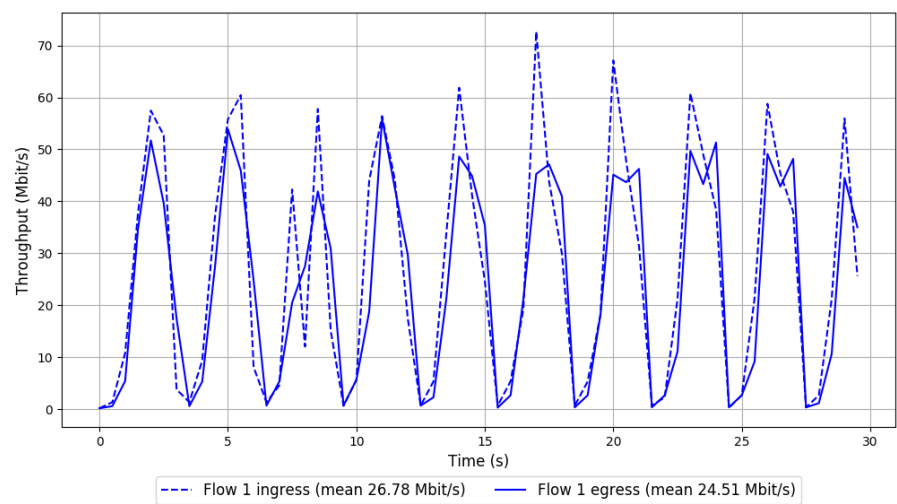
-- Flow 1:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 130.696 ms

Loss rate: 8.49%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-04-24 11:20:20

End at: 2018-04-24 11:20:50

Local clock offset: -6.894 ms

Remote clock offset: 5.679 ms

Below is generated by plot.py at 2018-04-24 12:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 179.539 ms

Loss rate: 82.09%

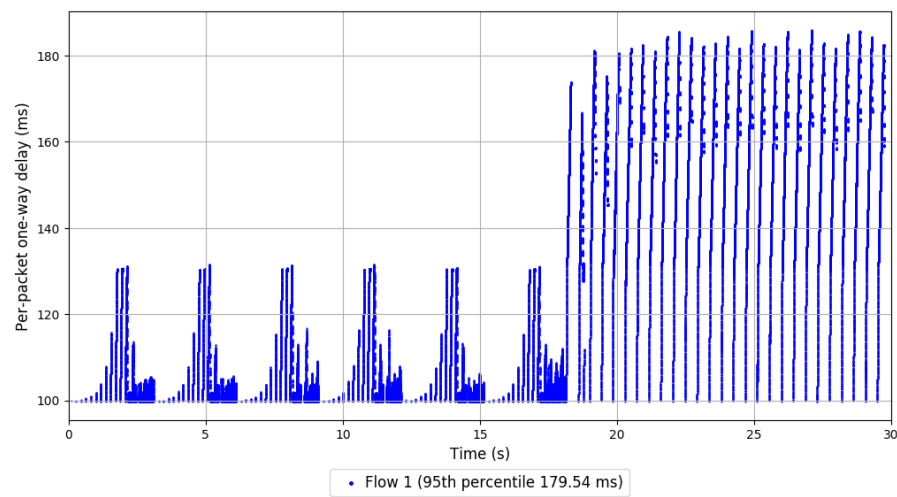
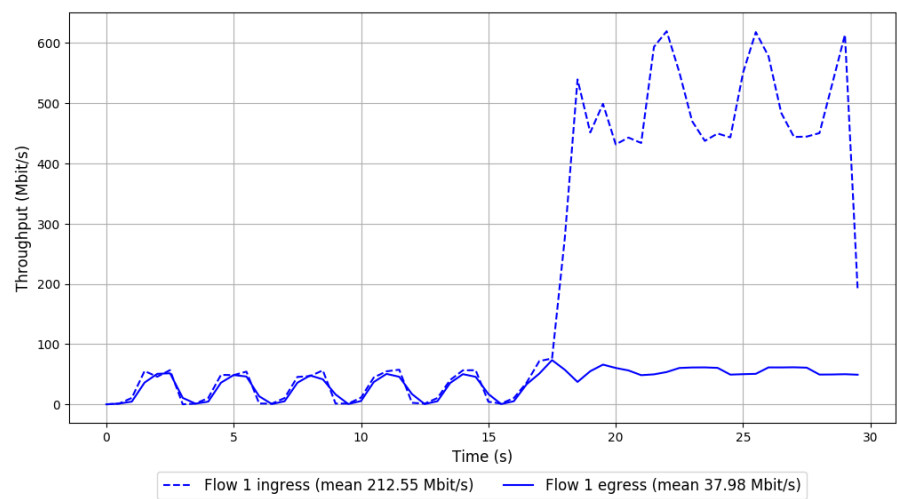
-- Flow 1:

Average throughput: 37.98 Mbit/s

95th percentile per-packet one-way delay: 179.539 ms

Loss rate: 82.09%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-04-24 11:41:31

End at: 2018-04-24 11:42:01

Local clock offset: -7.332 ms

Remote clock offset: 2.643 ms

Below is generated by plot.py at 2018-04-24 12:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 128.306 ms

Loss rate: 8.75%

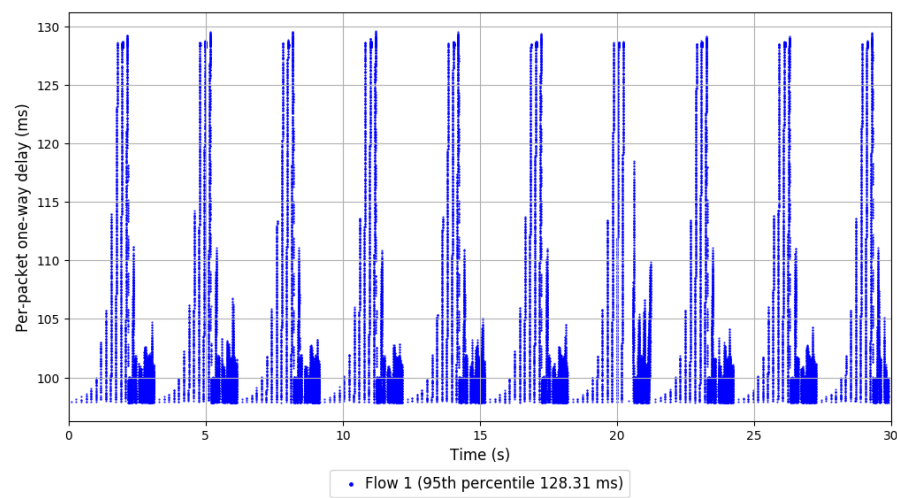
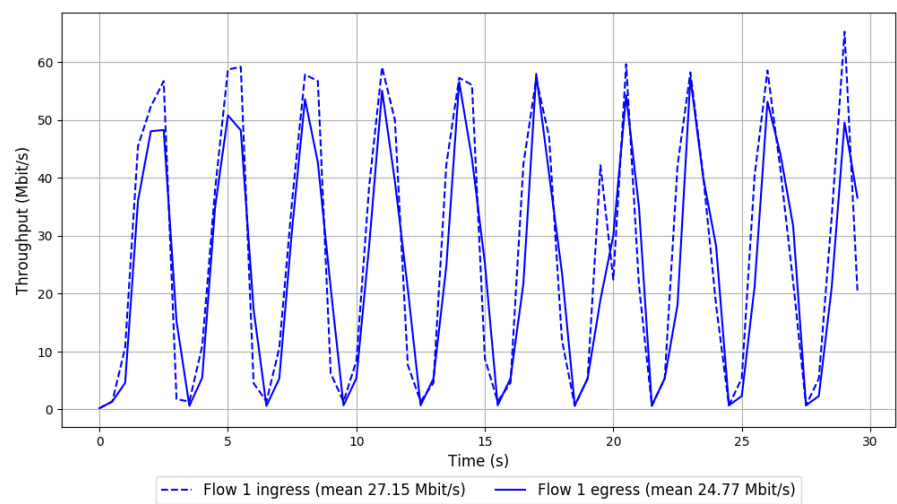
-- Flow 1:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 128.306 ms

Loss rate: 8.75%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-04-24 12:02:37

End at: 2018-04-24 12:03:07

Local clock offset: -6.852 ms

Remote clock offset: 2.311 ms

Below is generated by plot.py at 2018-04-24 12:37:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 133.070 ms

Loss rate: 8.91%

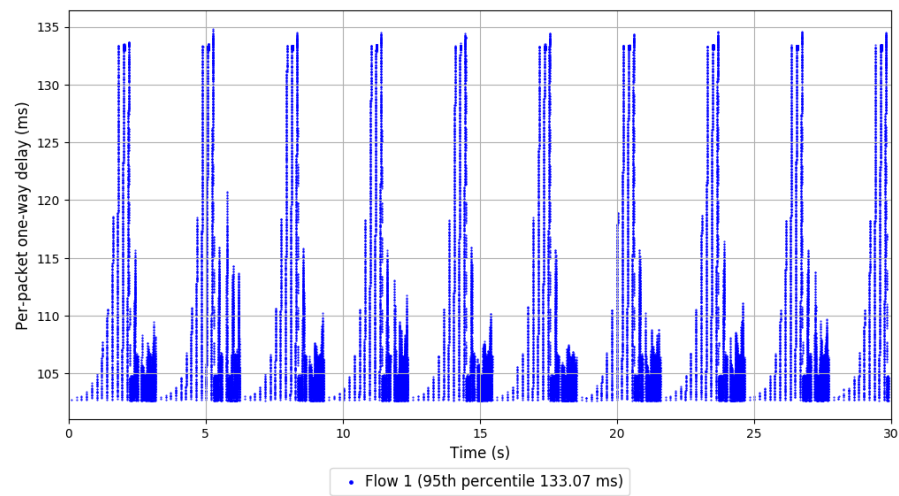
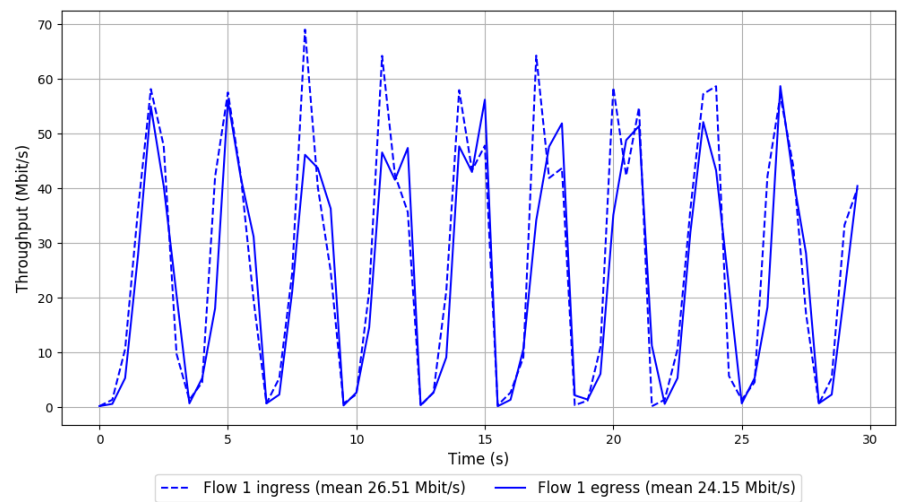
-- Flow 1:

Average throughput: 24.15 Mbit/s

95th percentile per-packet one-way delay: 133.070 ms

Loss rate: 8.91%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2018-04-24 08:51:38

End at: 2018-04-24 08:52:08

Local clock offset: -6.755 ms

Remote clock offset: 7.331 ms

Below is generated by plot.py at 2018-04-24 12:43:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 130.863 ms

Loss rate: 88.50%

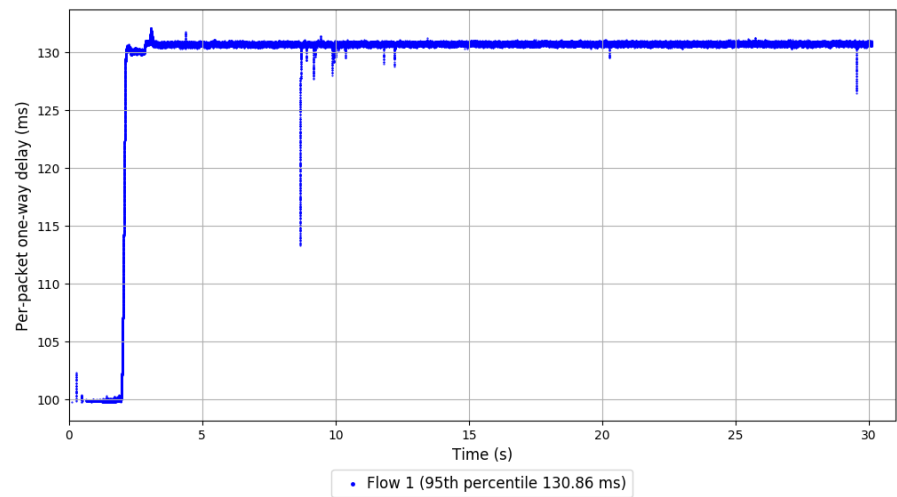
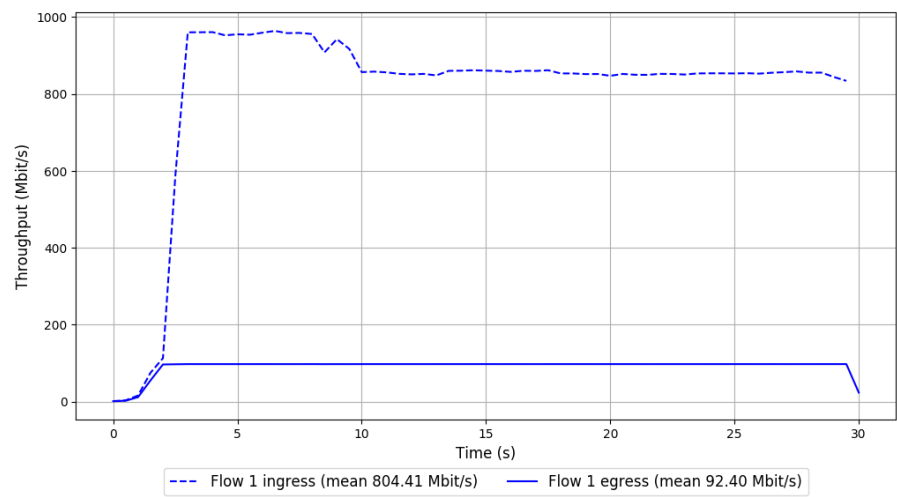
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 130.863 ms

Loss rate: 88.50%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-04-24 09:12:40

End at: 2018-04-24 09:13:10

Local clock offset: -5.852 ms

Remote clock offset: 6.447 ms

Below is generated by plot.py at 2018-04-24 12:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 130.201 ms

Loss rate: 89.27%

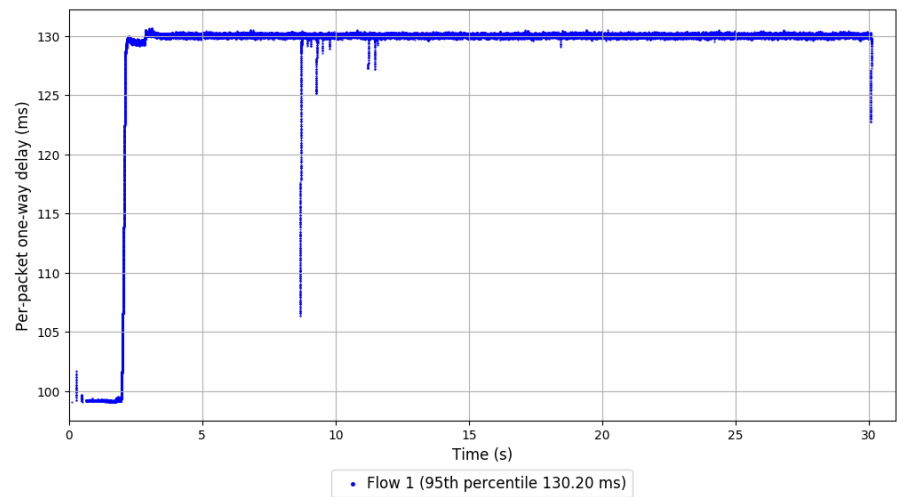
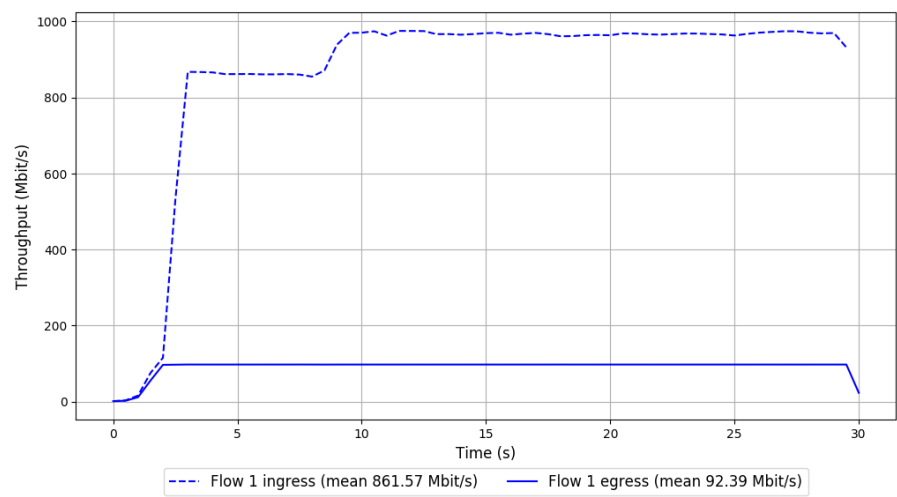
-- Flow 1:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 130.201 ms

Loss rate: 89.27%

Run 2: Report of Copa — Data Link

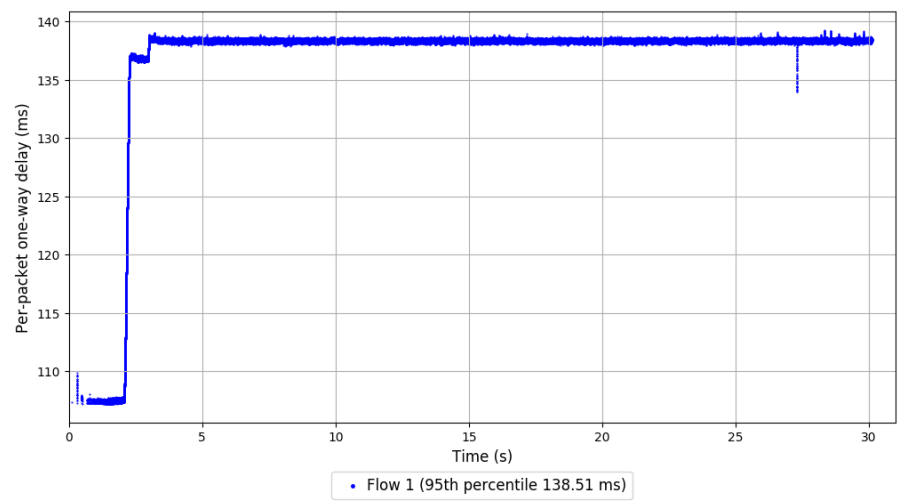
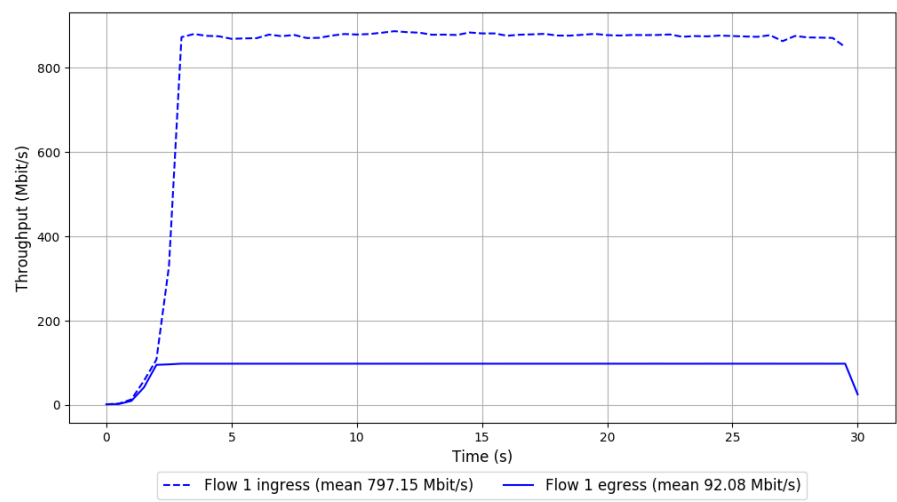


Run 3: Statistics of Copa

Start at: 2018-04-24 09:33:46
End at: 2018-04-24 09:34:16
Local clock offset: -5.929 ms
Remote clock offset: 6.486 ms

Below is generated by plot.py at 2018-04-24 12:43:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.08 Mbit/s
95th percentile per-packet one-way delay: 138.510 ms
Loss rate: 88.44%
-- Flow 1:
Average throughput: 92.08 Mbit/s
95th percentile per-packet one-way delay: 138.510 ms
Loss rate: 88.44%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-04-24 09:54:48

End at: 2018-04-24 09:55:18

Local clock offset: -7.422 ms

Remote clock offset: 7.075 ms

Below is generated by plot.py at 2018-04-24 12:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 132.628 ms

Loss rate: 88.77%

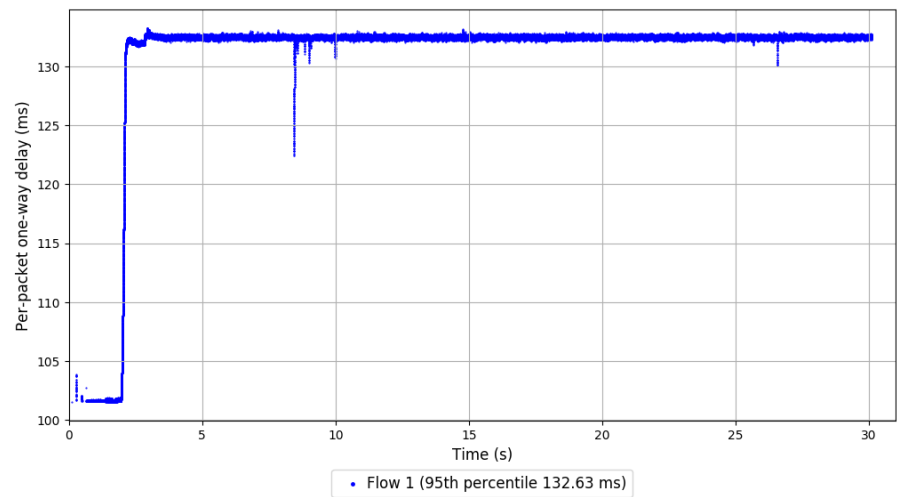
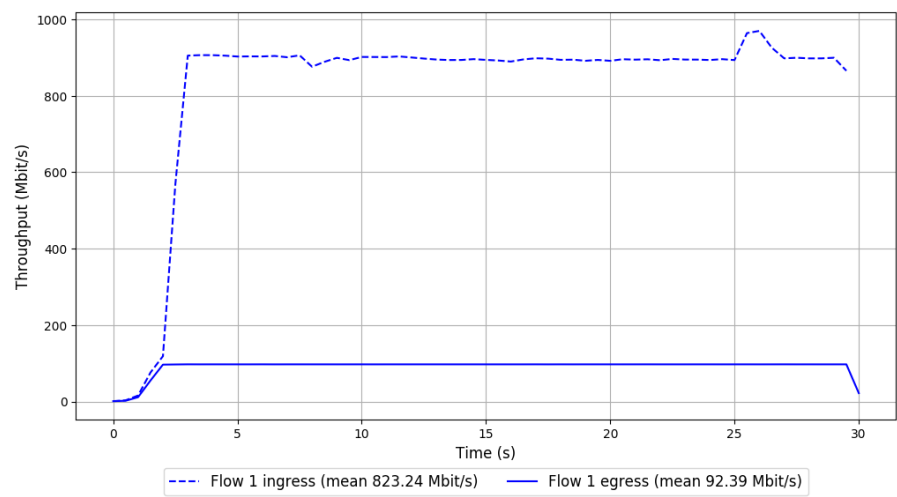
-- Flow 1:

Average throughput: 92.39 Mbit/s

95th percentile per-packet one-way delay: 132.628 ms

Loss rate: 88.77%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-04-24 10:15:49

End at: 2018-04-24 10:16:19

Local clock offset: -6.917 ms

Remote clock offset: 6.185 ms

Below is generated by plot.py at 2018-04-24 12:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 132.364 ms

Loss rate: 88.68%

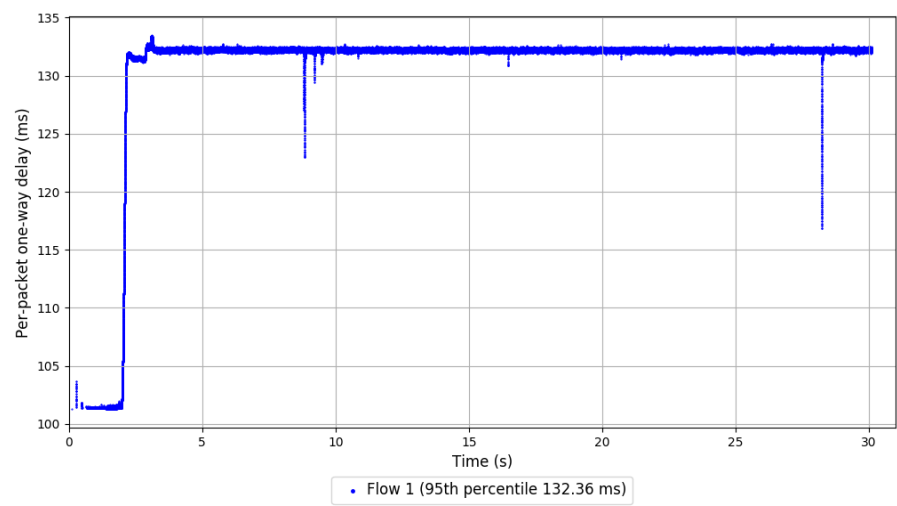
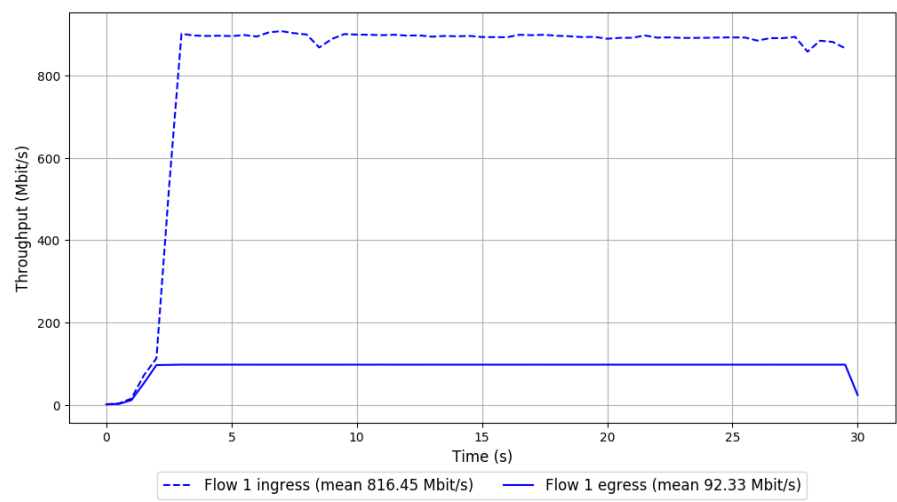
-- Flow 1:

Average throughput: 92.33 Mbit/s

95th percentile per-packet one-way delay: 132.364 ms

Loss rate: 88.68%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-04-24 10:36:50

End at: 2018-04-24 10:37:20

Local clock offset: -7.308 ms

Remote clock offset: 5.609 ms

Below is generated by plot.py at 2018-04-24 12:43:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 123.165 ms

Loss rate: 0.05%

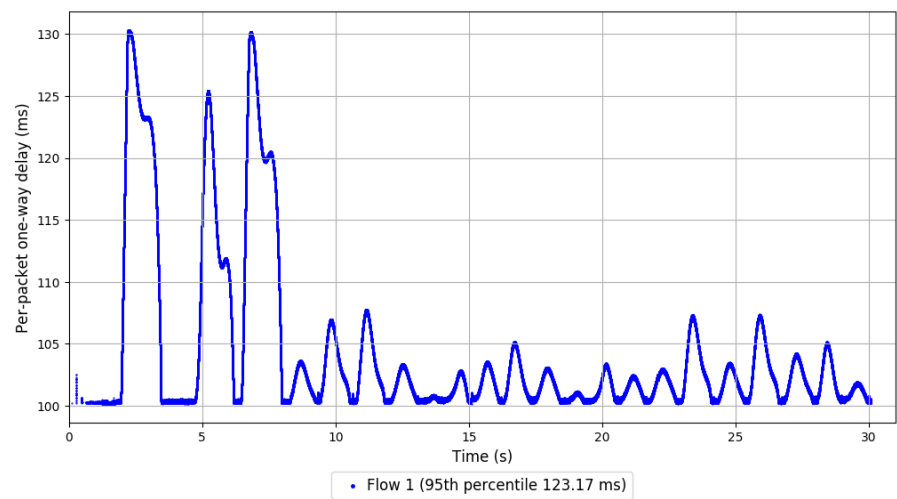
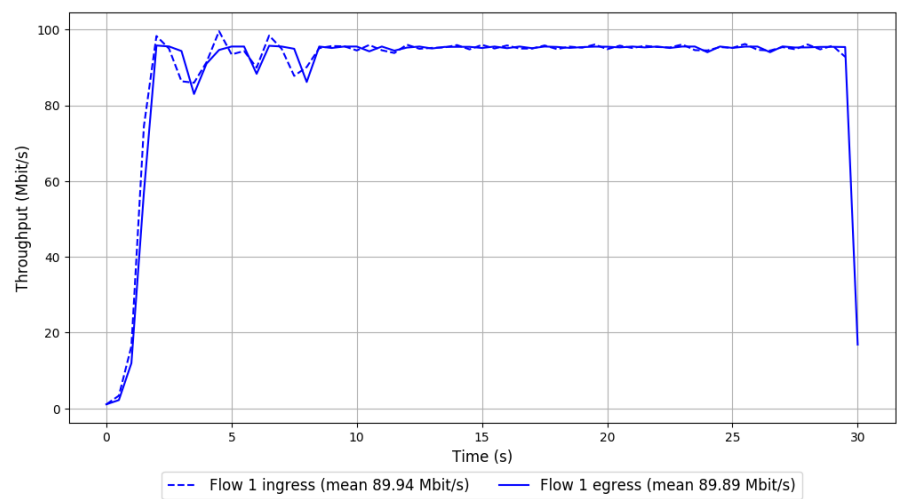
-- Flow 1:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 123.165 ms

Loss rate: 0.05%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-04-24 10:57:39

End at: 2018-04-24 10:58:10

Local clock offset: -6.481 ms

Remote clock offset: 2.82 ms

Below is generated by plot.py at 2018-04-24 12:43:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 128.294 ms

Loss rate: 89.39%

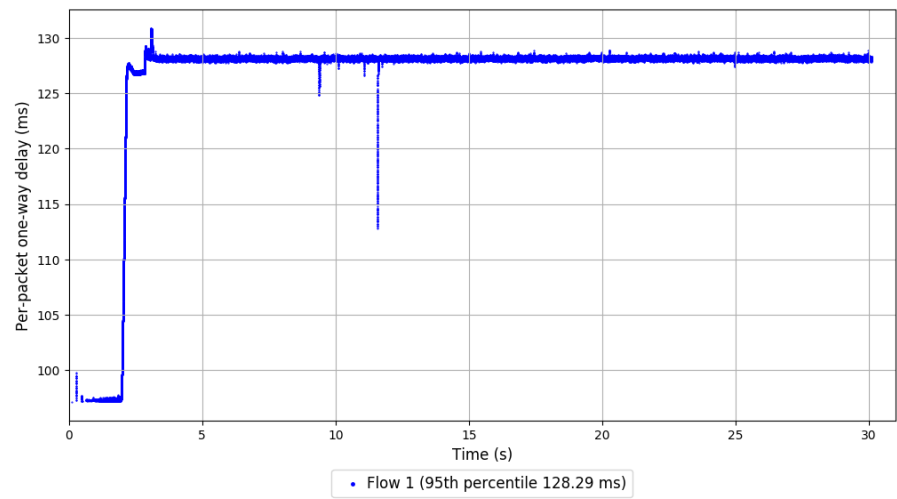
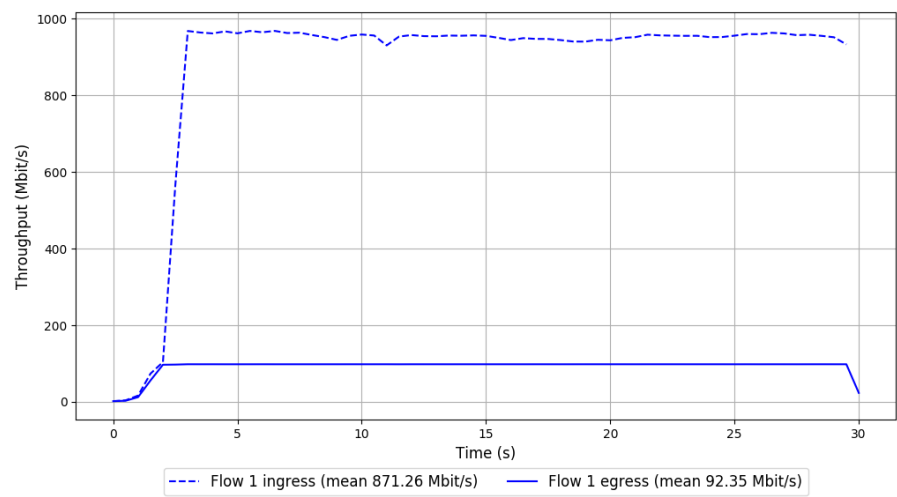
-- Flow 1:

Average throughput: 92.35 Mbit/s

95th percentile per-packet one-way delay: 128.294 ms

Loss rate: 89.39%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-04-24 11:18:47

End at: 2018-04-24 11:19:17

Local clock offset: -6.129 ms

Remote clock offset: 6.502 ms

Below is generated by plot.py at 2018-04-24 12:44:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 139.246 ms

Loss rate: 89.29%

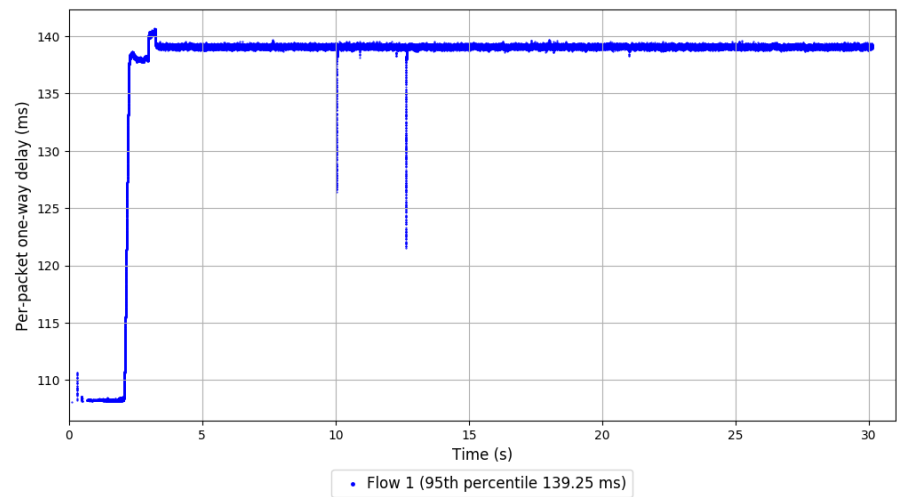
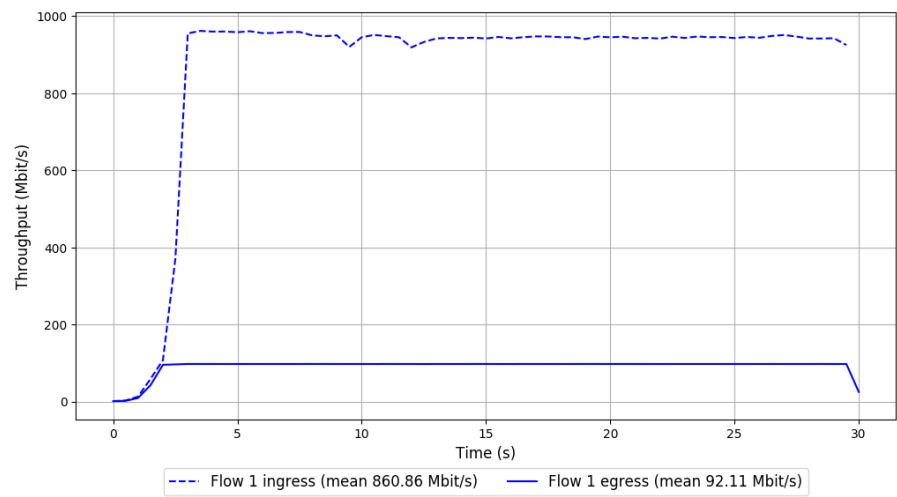
-- Flow 1:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 139.246 ms

Loss rate: 89.29%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-04-24 11:39:56

End at: 2018-04-24 11:40:26

Local clock offset: -6.497 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2018-04-24 12:46:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 132.737 ms

Loss rate: 89.60%

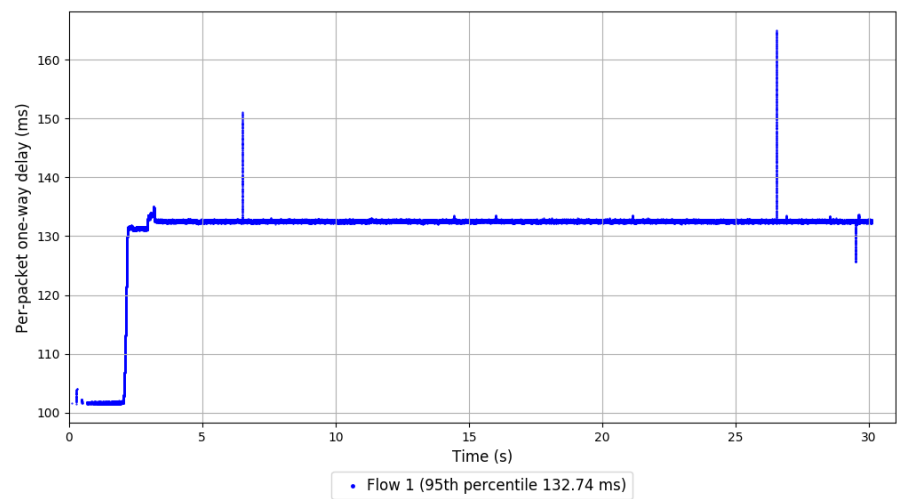
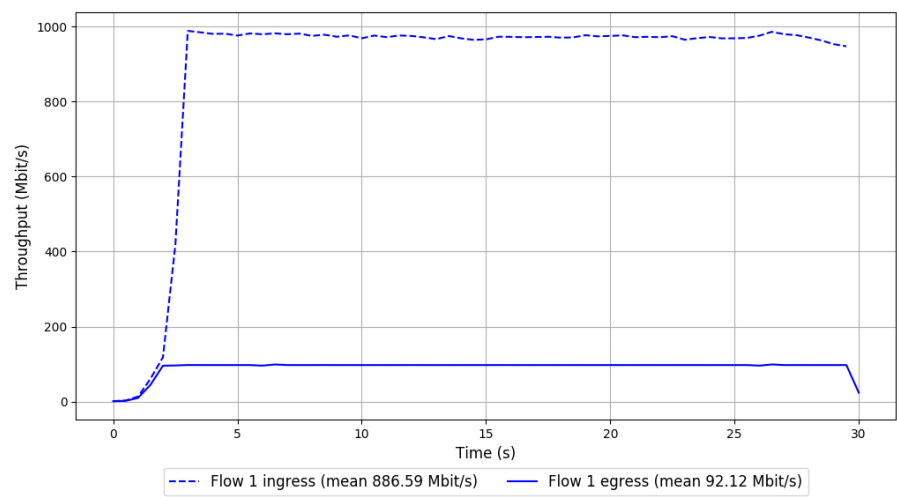
-- Flow 1:

Average throughput: 92.12 Mbit/s

95th percentile per-packet one-way delay: 132.737 ms

Loss rate: 89.60%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-04-24 12:01:03

End at: 2018-04-24 12:01:33

Local clock offset: -7.569 ms

Remote clock offset: 5.32 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 131.980 ms

Loss rate: 89.48%

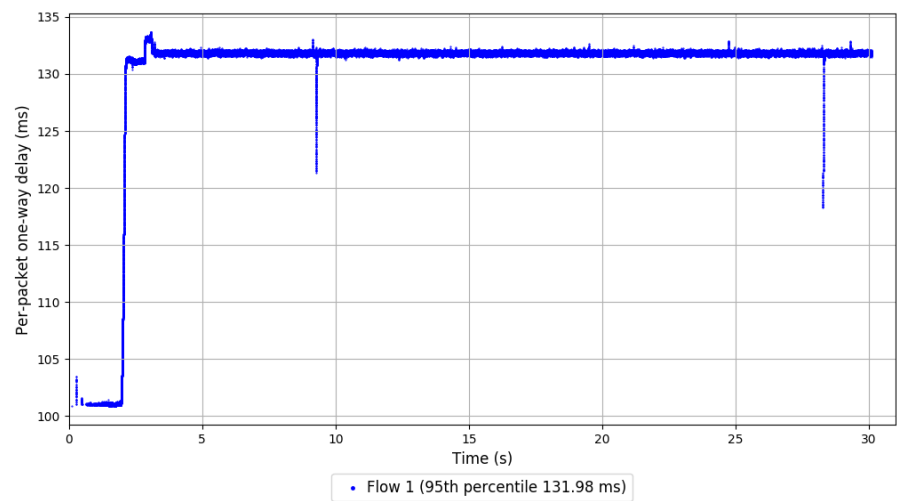
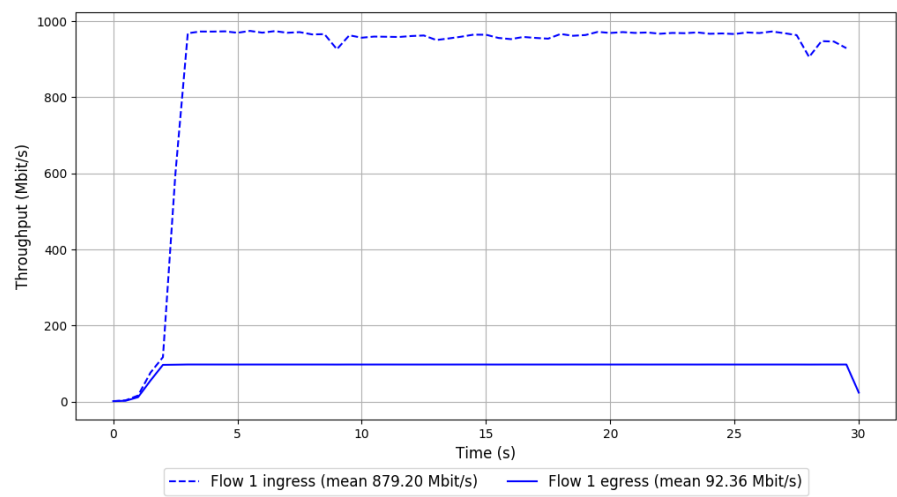
-- Flow 1:

Average throughput: 92.36 Mbit/s

95th percentile per-packet one-way delay: 131.980 ms

Loss rate: 89.48%

Run 10: Report of Copa — Data Link



Run 1: Statistics of FillP

Start at: 2018-04-24 08:49:10

End at: 2018-04-24 08:49:40

Local clock offset: -7.47 ms

Remote clock offset: 7.542 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 118.513 ms

Loss rate: 1.79%

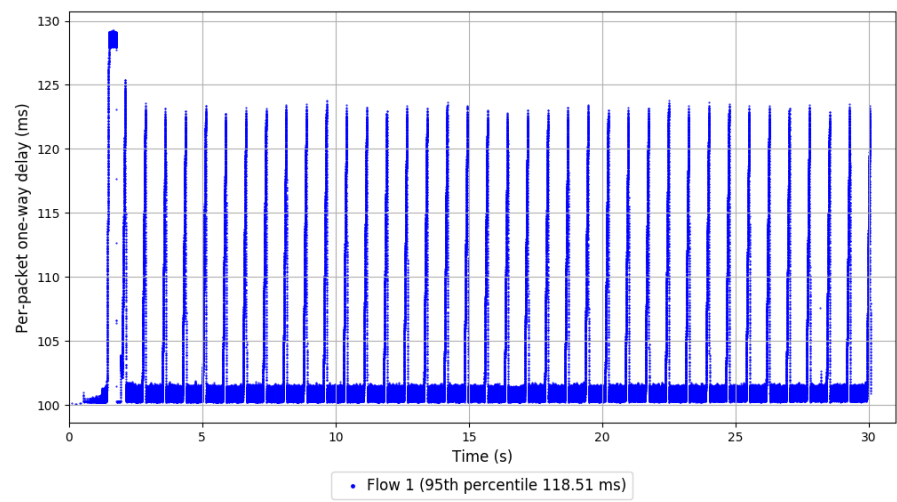
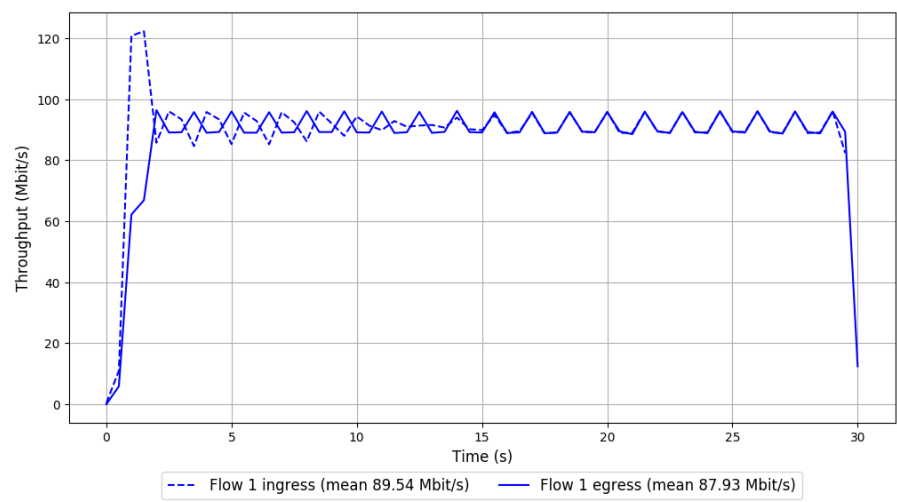
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 118.513 ms

Loss rate: 1.79%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-04-24 09:10:12

End at: 2018-04-24 09:10:42

Local clock offset: -6.599 ms

Remote clock offset: 6.554 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 121.246 ms

Loss rate: 1.67%

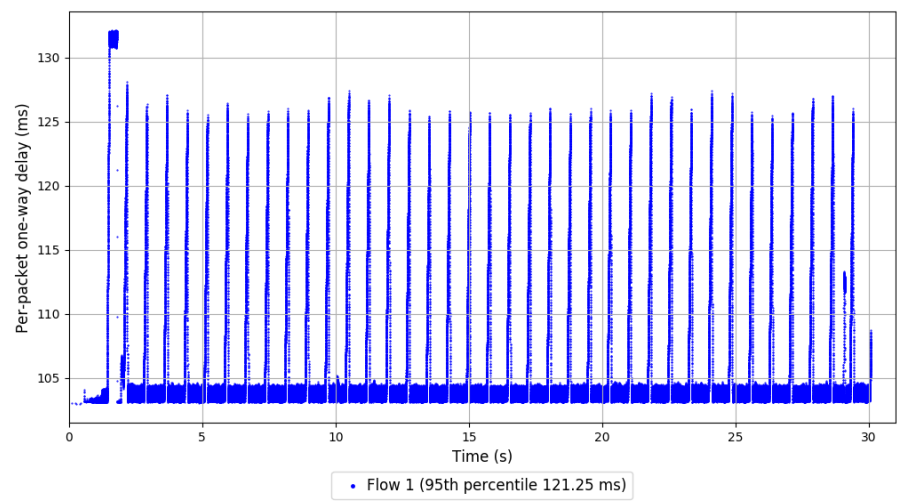
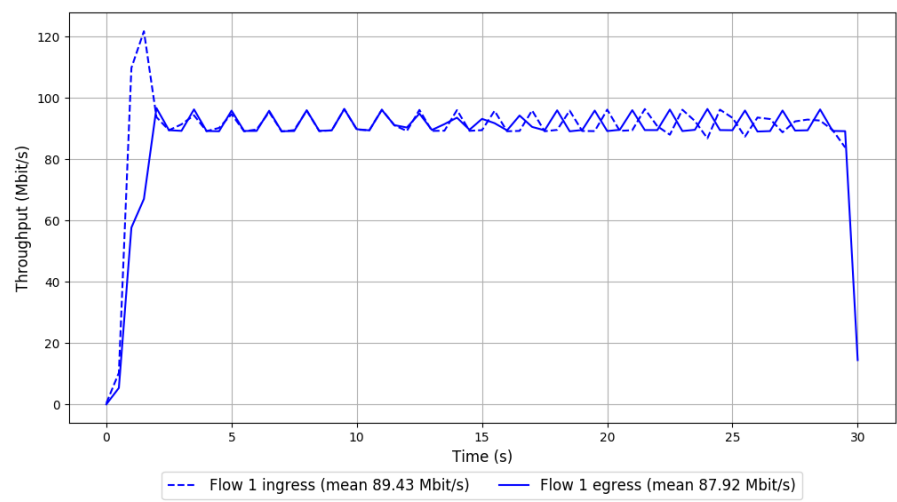
-- Flow 1:

Average throughput: 87.92 Mbit/s

95th percentile per-packet one-way delay: 121.246 ms

Loss rate: 1.67%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-04-24 09:31:19

End at: 2018-04-24 09:31:49

Local clock offset: -5.907 ms

Remote clock offset: 7.288 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 119.001 ms

Loss rate: 1.78%

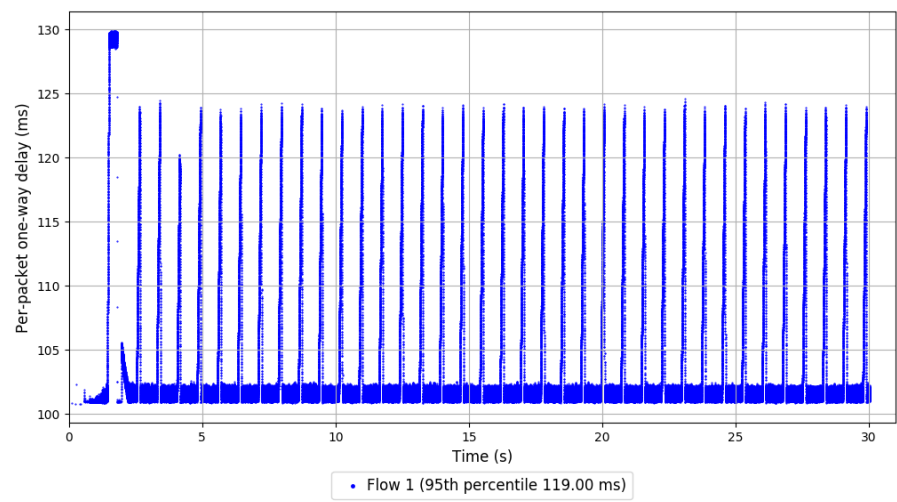
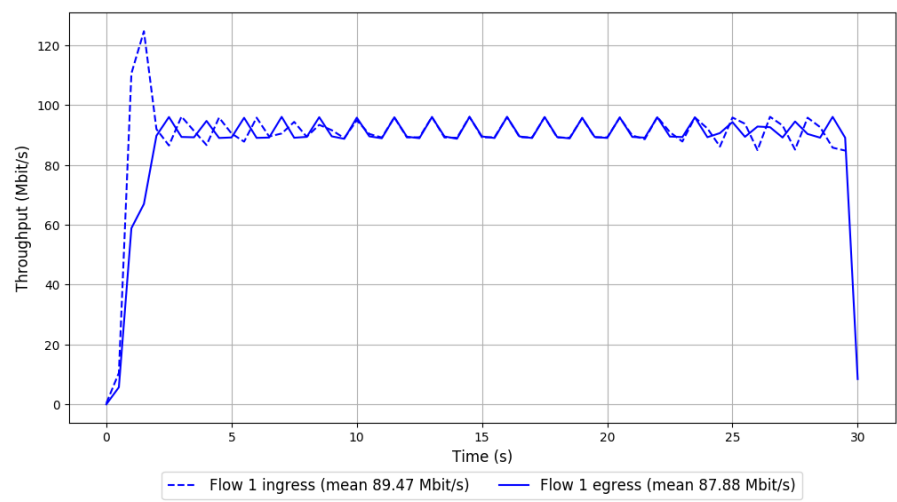
-- Flow 1:

Average throughput: 87.88 Mbit/s

95th percentile per-packet one-way delay: 119.001 ms

Loss rate: 1.78%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-04-24 09:52:21

End at: 2018-04-24 09:52:51

Local clock offset: -6.68 ms

Remote clock offset: 2.393 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 119.061 ms

Loss rate: 1.77%

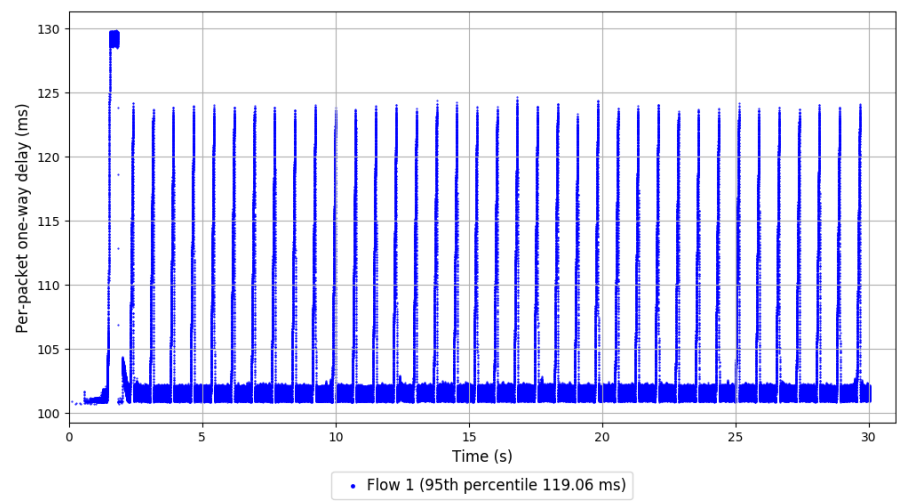
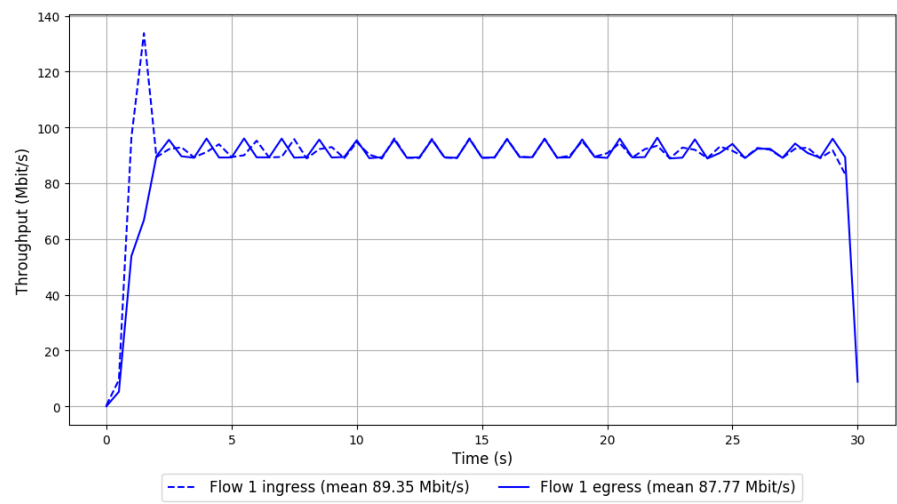
-- Flow 1:

Average throughput: 87.77 Mbit/s

95th percentile per-packet one-way delay: 119.061 ms

Loss rate: 1.77%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-04-24 10:13:21

End at: 2018-04-24 10:13:51

Local clock offset: -5.963 ms

Remote clock offset: 1.484 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 114.183 ms

Loss rate: 1.80%

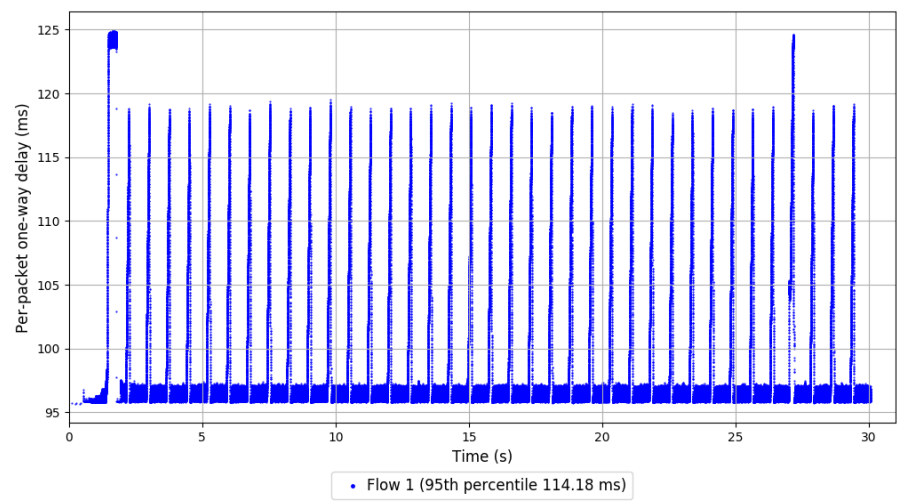
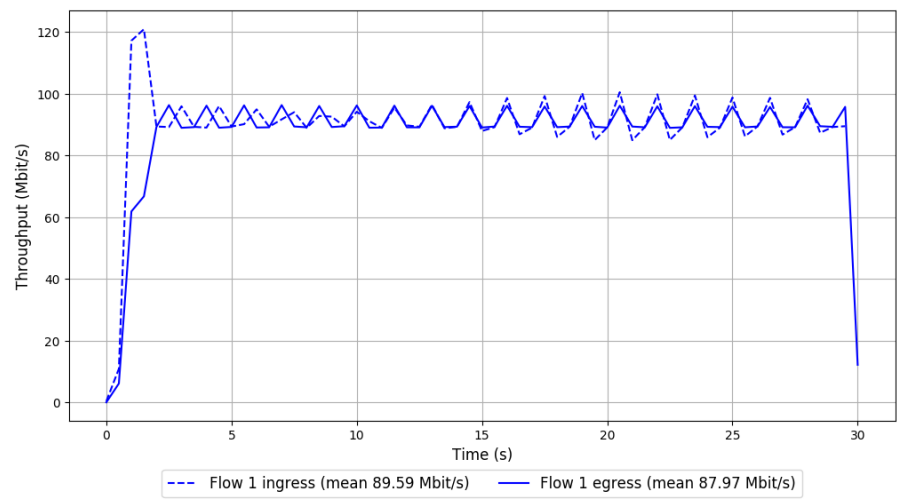
-- Flow 1:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 114.183 ms

Loss rate: 1.80%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-04-24 10:34:23

End at: 2018-04-24 10:34:53

Local clock offset: -6.555 ms

Remote clock offset: 5.586 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 118.105 ms

Loss rate: 1.80%

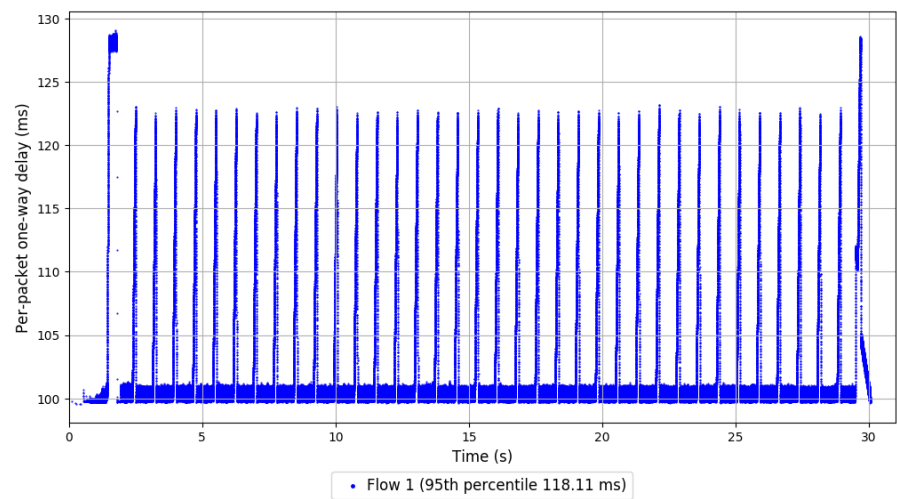
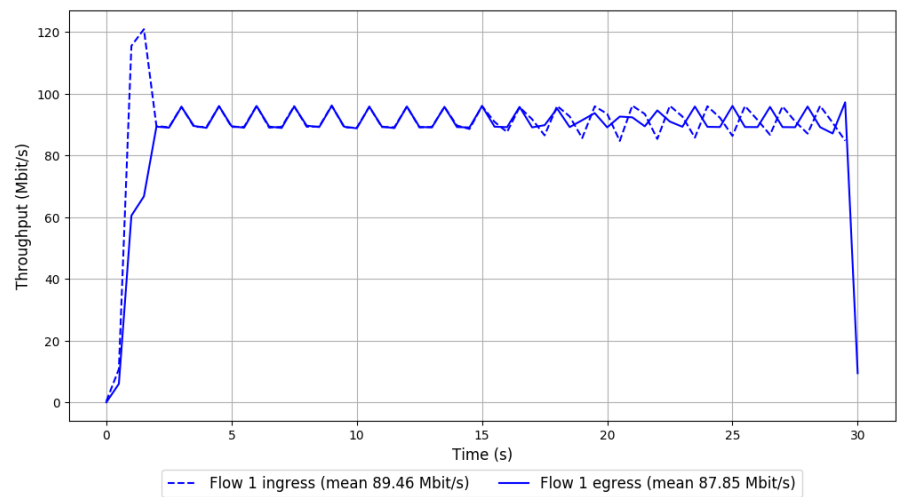
-- Flow 1:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 118.105 ms

Loss rate: 1.80%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-04-24 10:55:12

End at: 2018-04-24 10:55:42

Local clock offset: -7.393 ms

Remote clock offset: 7.405 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 120.569 ms

Loss rate: 1.83%

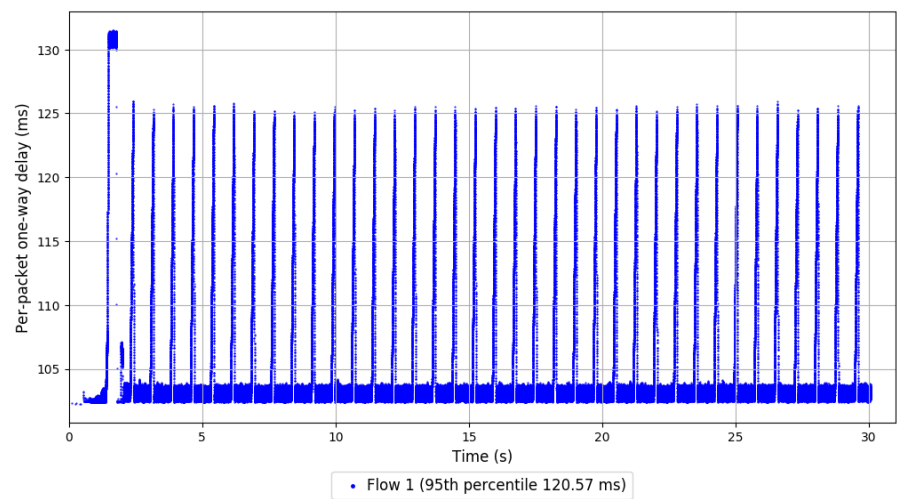
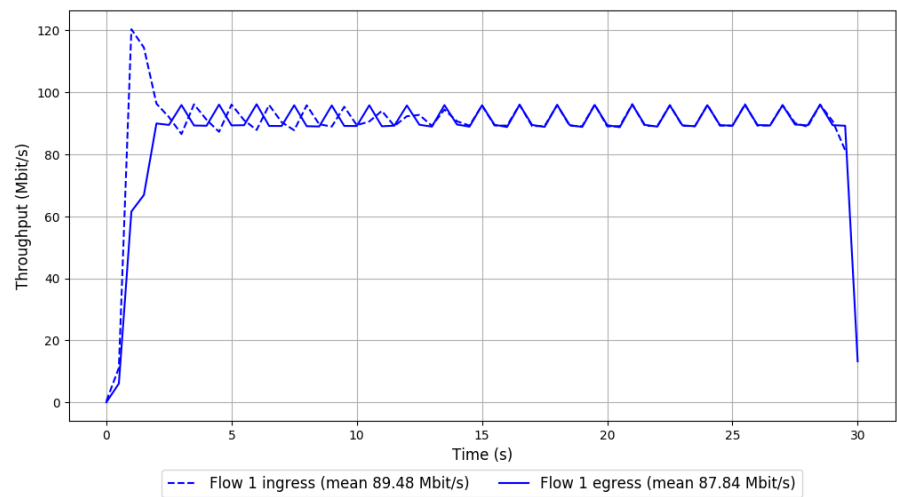
-- Flow 1:

Average throughput: 87.84 Mbit/s

95th percentile per-packet one-way delay: 120.569 ms

Loss rate: 1.83%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-04-24 11:16:20

End at: 2018-04-24 11:16:50

Local clock offset: -6.195 ms

Remote clock offset: 2.762 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 115.382 ms

Loss rate: 1.76%

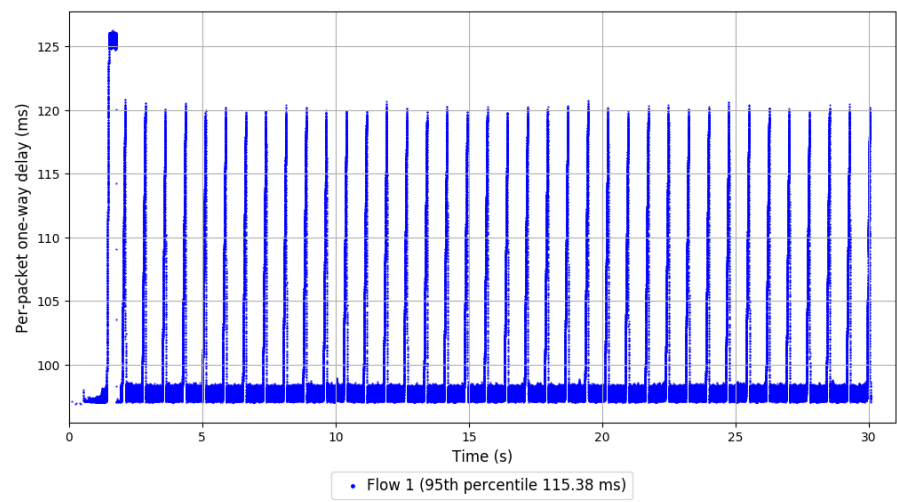
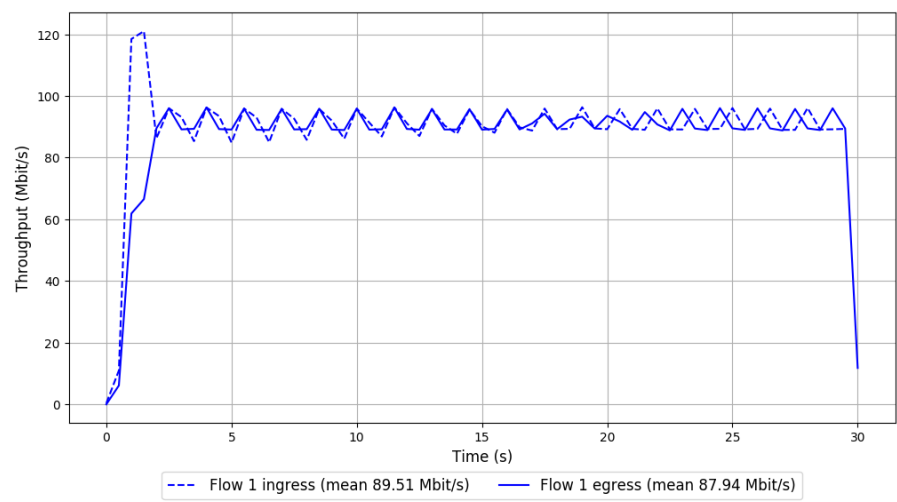
-- Flow 1:

Average throughput: 87.94 Mbit/s

95th percentile per-packet one-way delay: 115.382 ms

Loss rate: 1.76%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-04-24 11:37:29

End at: 2018-04-24 11:37:59

Local clock offset: -7.262 ms

Remote clock offset: 2.647 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.02 Mbit/s

95th percentile per-packet one-way delay: 127.906 ms

Loss rate: 9.19%

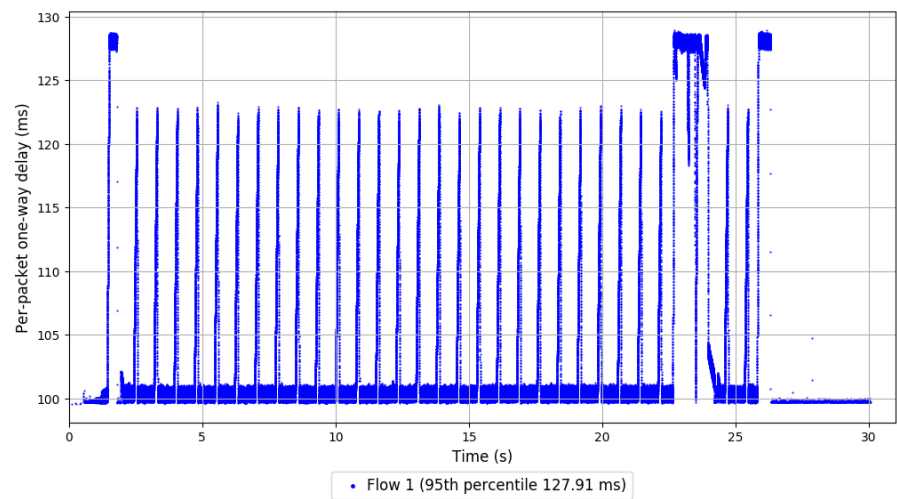
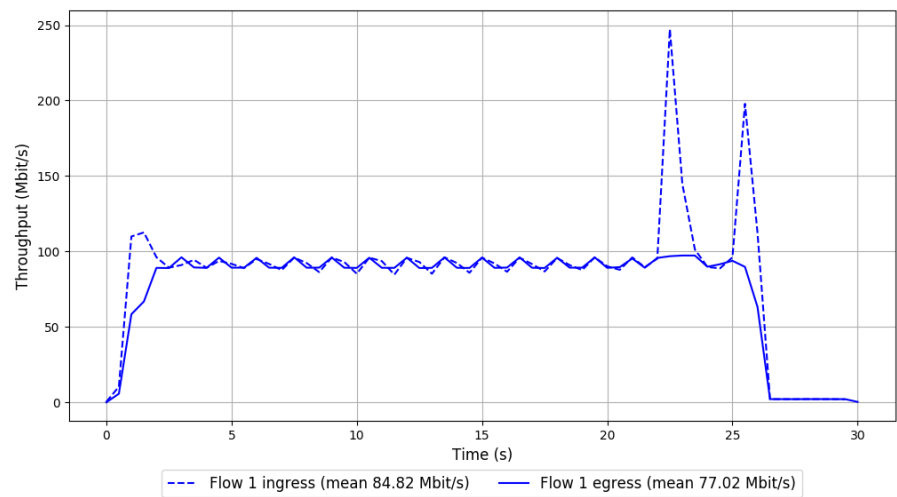
-- Flow 1:

Average throughput: 77.02 Mbit/s

95th percentile per-packet one-way delay: 127.906 ms

Loss rate: 9.19%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-04-24 11:58:35

End at: 2018-04-24 11:59:05

Local clock offset: -6.795 ms

Remote clock offset: 2.361 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 120.537 ms

Loss rate: 1.91%

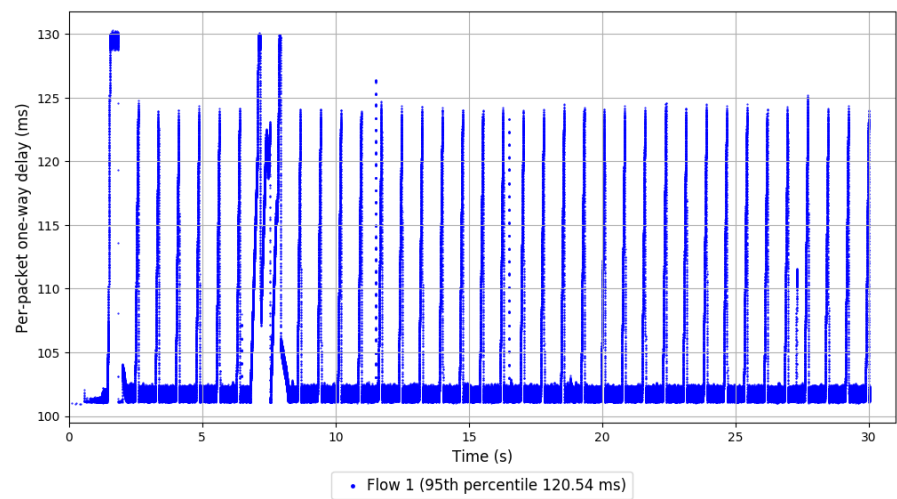
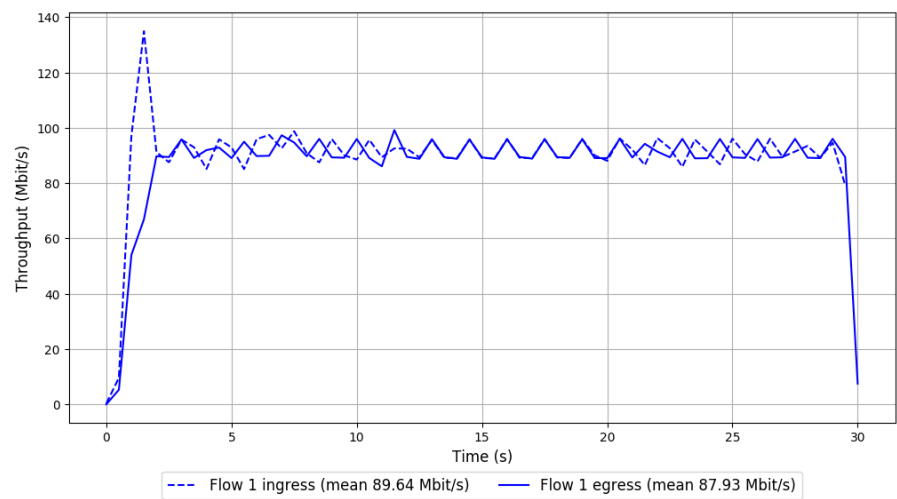
-- Flow 1:

Average throughput: 87.93 Mbit/s

95th percentile per-packet one-way delay: 120.537 ms

Loss rate: 1.91%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo-1-32

Start at: 2018-04-24 08:35:45

End at: 2018-04-24 08:36:15

Local clock offset: -6.488 ms

Remote clock offset: 3.273 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 102.881 ms

Loss rate: 0.55%

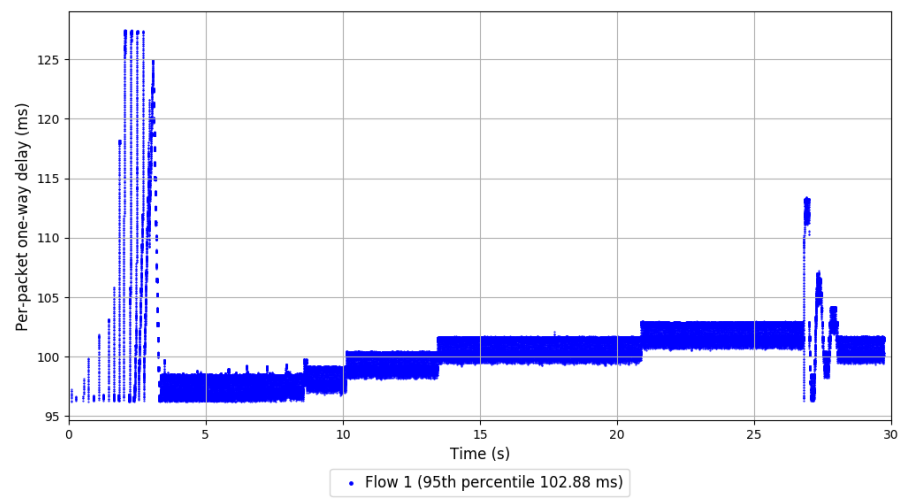
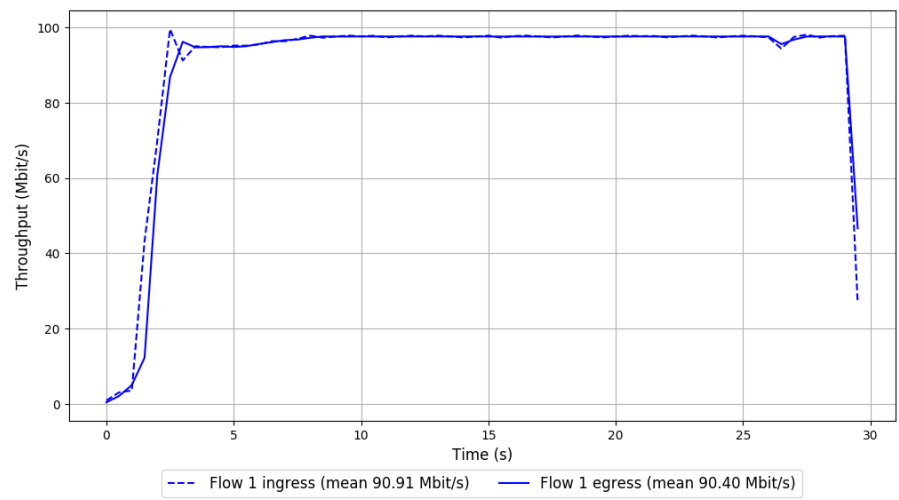
-- Flow 1:

Average throughput: 90.40 Mbit/s

95th percentile per-packet one-way delay: 102.881 ms

Loss rate: 0.55%

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



Run 2: Statistics of Indigo-1-32

Start at: 2018-04-24 08:56:45

End at: 2018-04-24 08:57:15

Local clock offset: -6.721 ms

Remote clock offset: 2.372 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 104.679 ms

Loss rate: 0.73%

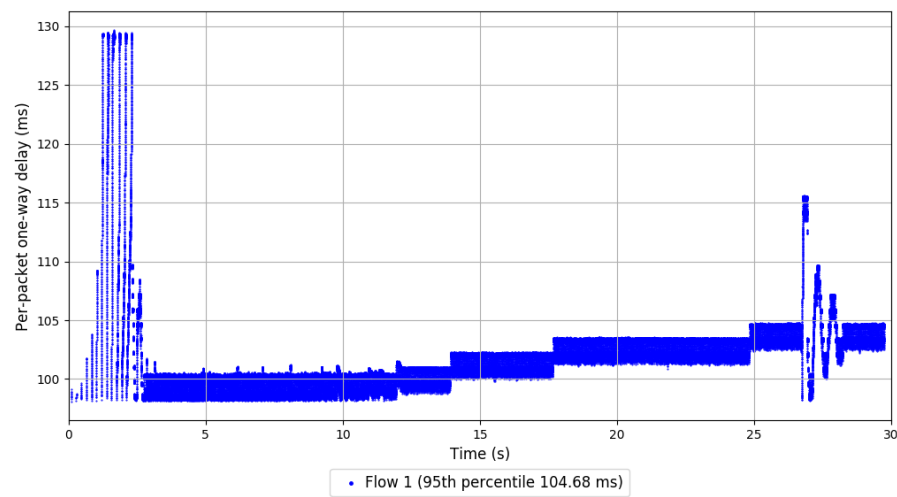
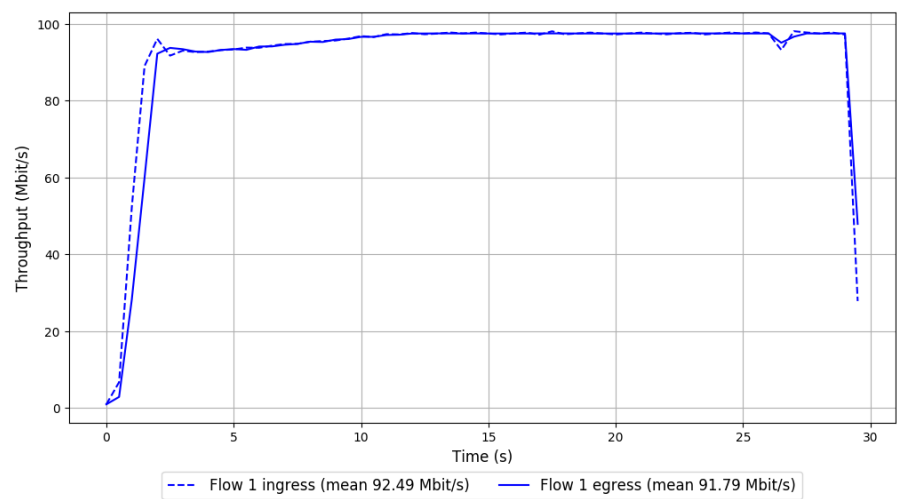
-- Flow 1:

Average throughput: 91.79 Mbit/s

95th percentile per-packet one-way delay: 104.679 ms

Loss rate: 0.73%

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



Run 3: Statistics of Indigo-1-32

Start at: 2018-04-24 09:17:49

End at: 2018-04-24 09:18:19

Local clock offset: -5.829 ms

Remote clock offset: 1.747 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 100.158 ms

Loss rate: 0.67%

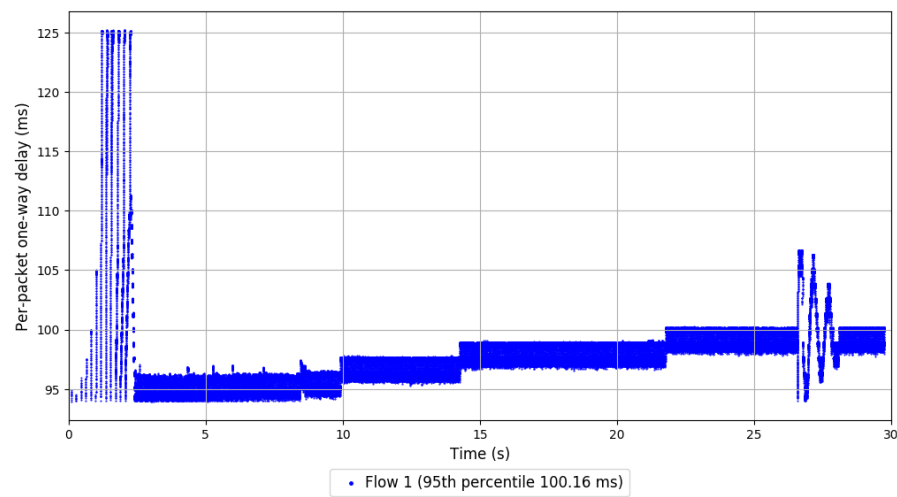
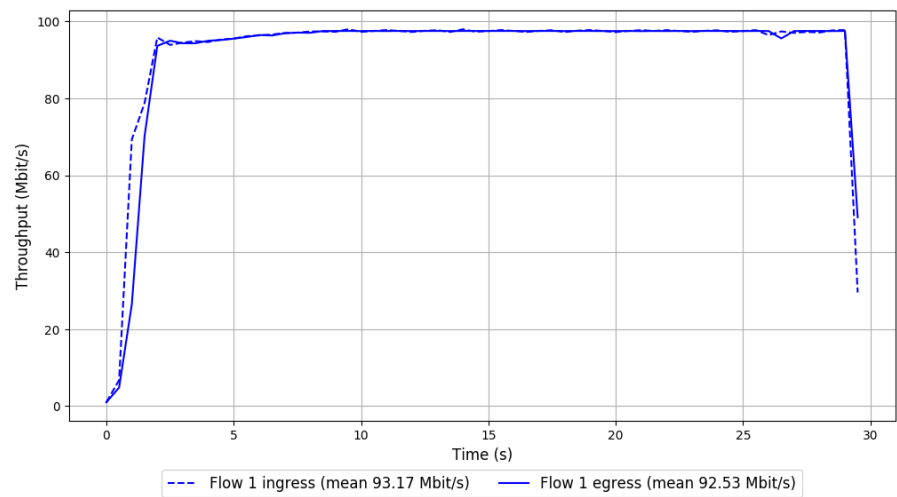
-- Flow 1:

Average throughput: 92.53 Mbit/s

95th percentile per-packet one-way delay: 100.158 ms

Loss rate: 0.67%

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



Run 4: Statistics of Indigo-1-32

Start at: 2018-04-24 09:38:55

End at: 2018-04-24 09:39:25

Local clock offset: -6.663 ms

Remote clock offset: 5.534 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 113.698 ms

Loss rate: 0.80%

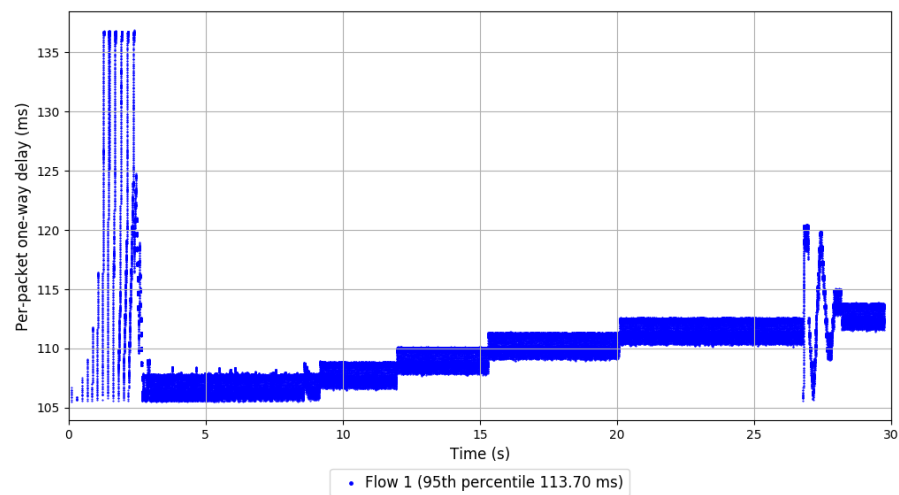
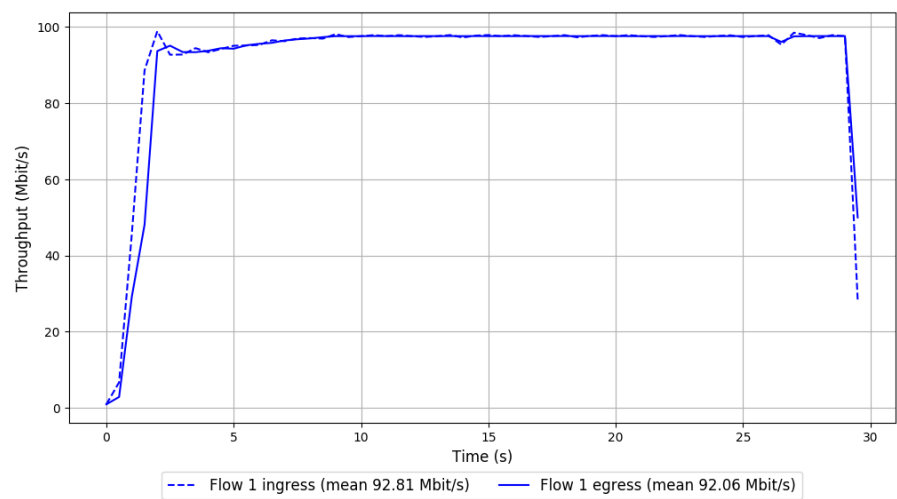
-- Flow 1:

Average throughput: 92.06 Mbit/s

95th percentile per-packet one-way delay: 113.698 ms

Loss rate: 0.80%

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



Run 5: Statistics of Indigo-1-32

Start at: 2018-04-24 09:59:56

End at: 2018-04-24 10:00:26

Local clock offset: -6.689 ms

Remote clock offset: 1.616 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 105.669 ms

Loss rate: 0.69%

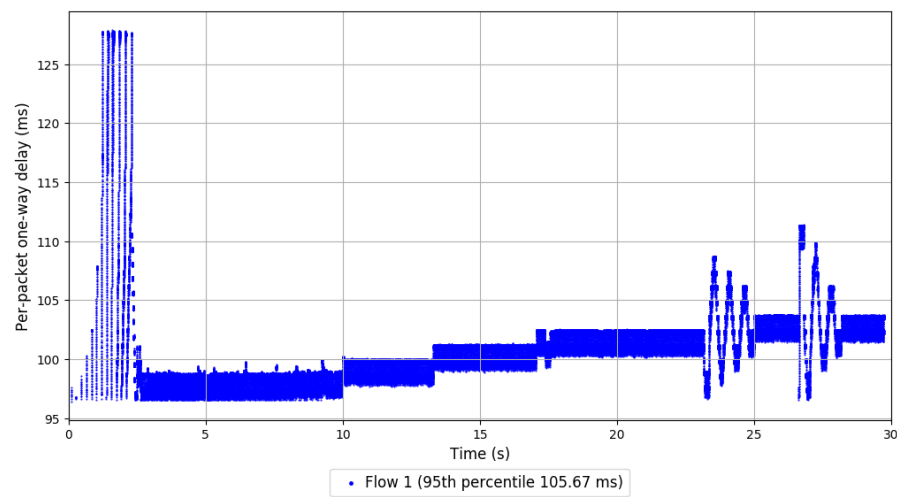
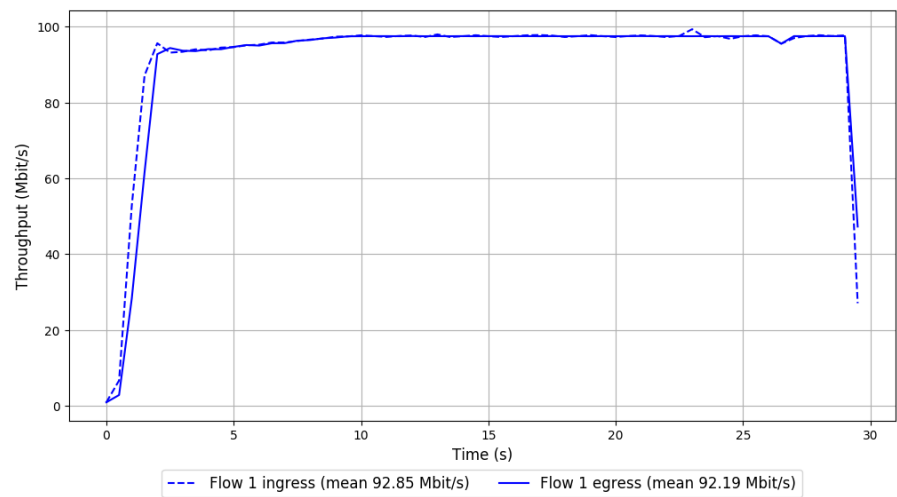
-- Flow 1:

Average throughput: 92.19 Mbit/s

95th percentile per-packet one-way delay: 105.669 ms

Loss rate: 0.69%

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



Run 6: Statistics of Indigo-1-32

Start at: 2018-04-24 10:20:57

End at: 2018-04-24 10:21:27

Local clock offset: -7.019 ms

Remote clock offset: 2.311 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 114.457 ms

Loss rate: 0.65%

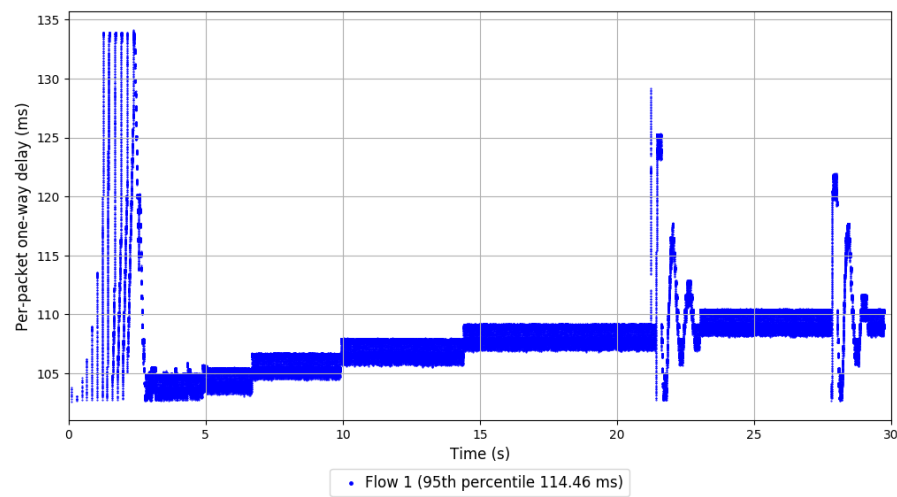
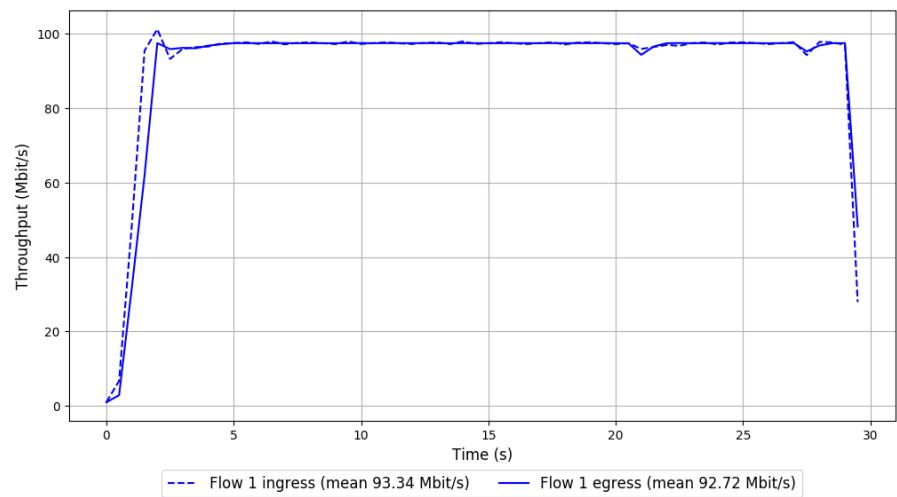
-- Flow 1:

Average throughput: 92.72 Mbit/s

95th percentile per-packet one-way delay: 114.457 ms

Loss rate: 0.65%

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



Run 7: Statistics of Indigo-1-32

Start at: 2018-04-24 10:41:43

End at: 2018-04-24 10:42:13

Local clock offset: -7.394 ms

Remote clock offset: 1.93 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 108.578 ms

Loss rate: 0.69%

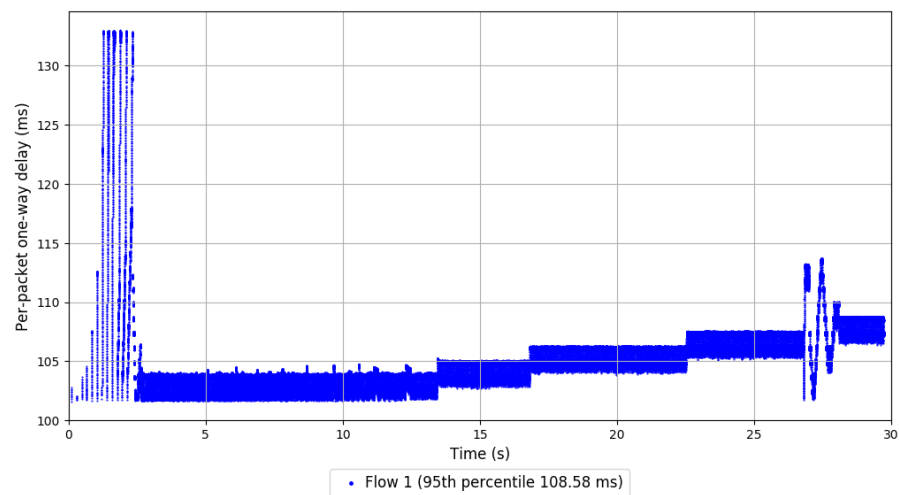
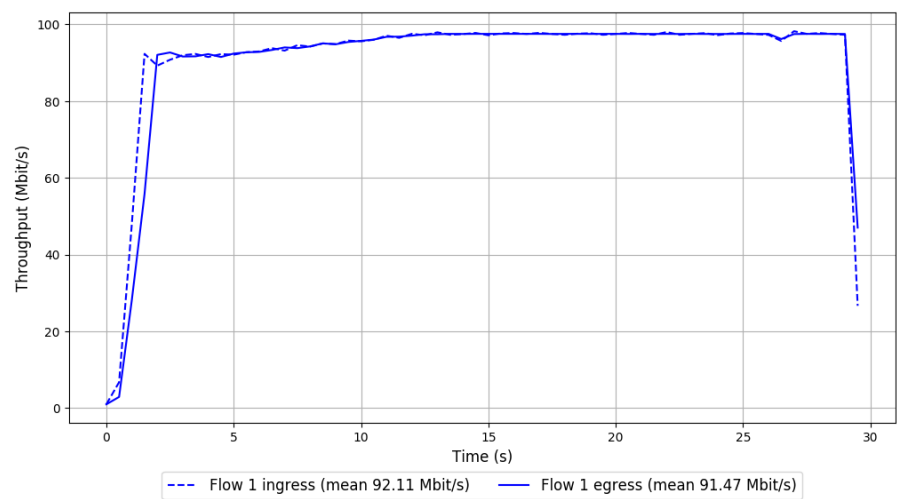
-- Flow 1:

Average throughput: 91.47 Mbit/s

95th percentile per-packet one-way delay: 108.578 ms

Loss rate: 0.69%

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



Run 8: Statistics of Indigo-1-32

Start at: 2018-04-24 11:02:49

End at: 2018-04-24 11:03:19

Local clock offset: -6.325 ms

Remote clock offset: 5.777 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 113.644 ms

Loss rate: 0.74%

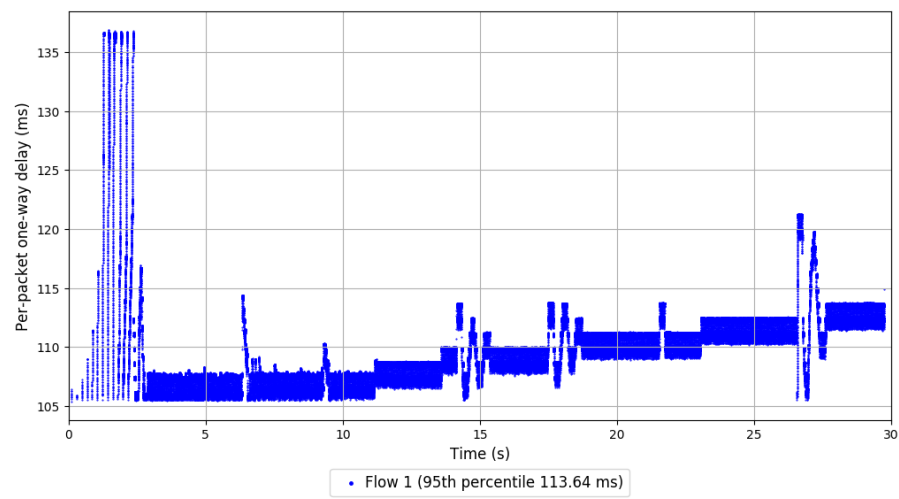
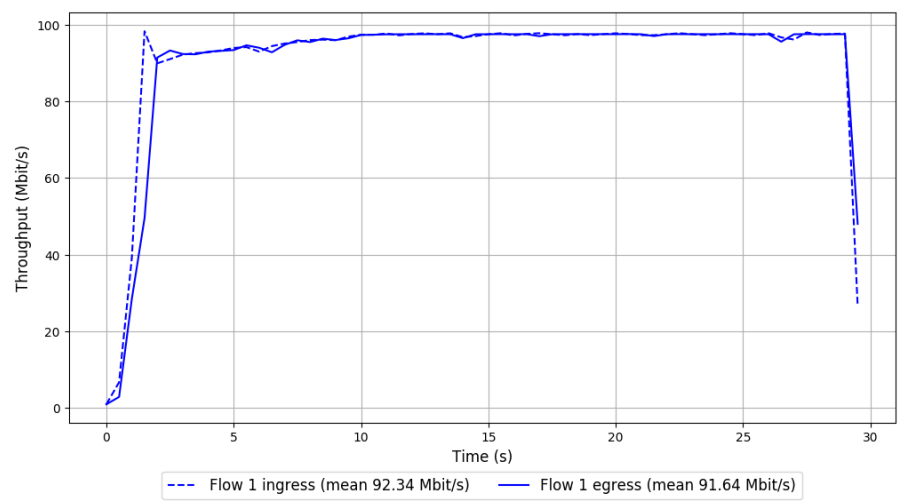
-- Flow 1:

Average throughput: 91.64 Mbit/s

95th percentile per-packet one-way delay: 113.644 ms

Loss rate: 0.74%

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



Run 9: Statistics of Indigo-1-32

Start at: 2018-04-24 11:24:00

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

Local clock offset: -7.079 ms

Remote clock offset: 6.588 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 117.769 ms

Loss rate: 0.77%

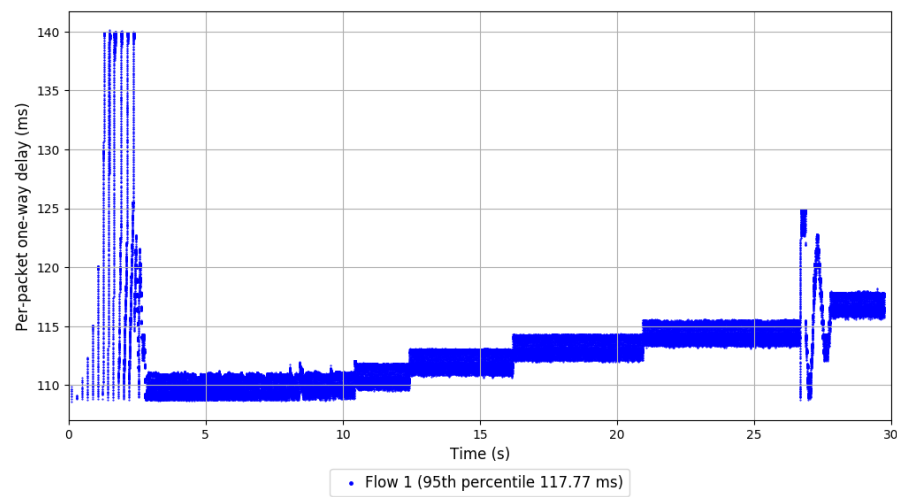
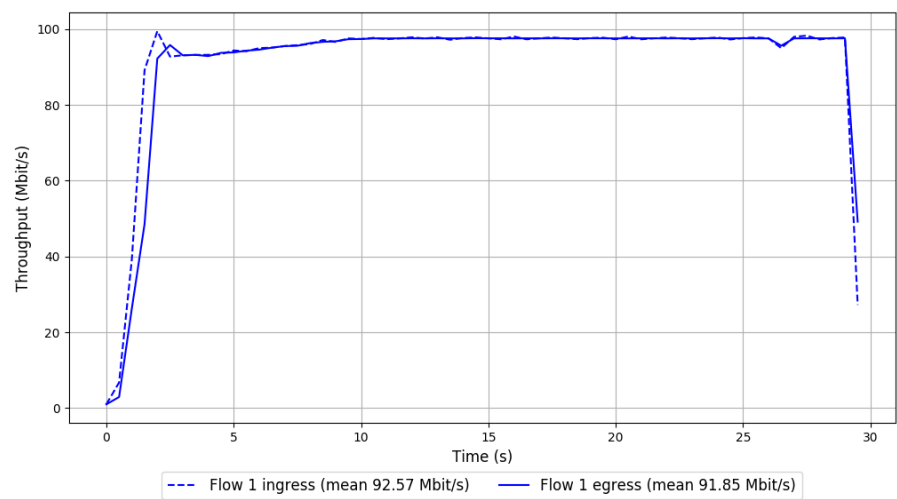
-- Flow 1:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 117.769 ms

Loss rate: 0.77%

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



Run 10: Statistics of Indigo-1-32

Start at: 2018-04-24 11:45:06

End at: 2018-04-24 11:45:36

Local clock offset: -6.492 ms

Remote clock offset: 1.683 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 102.082 ms

Loss rate: 0.74%

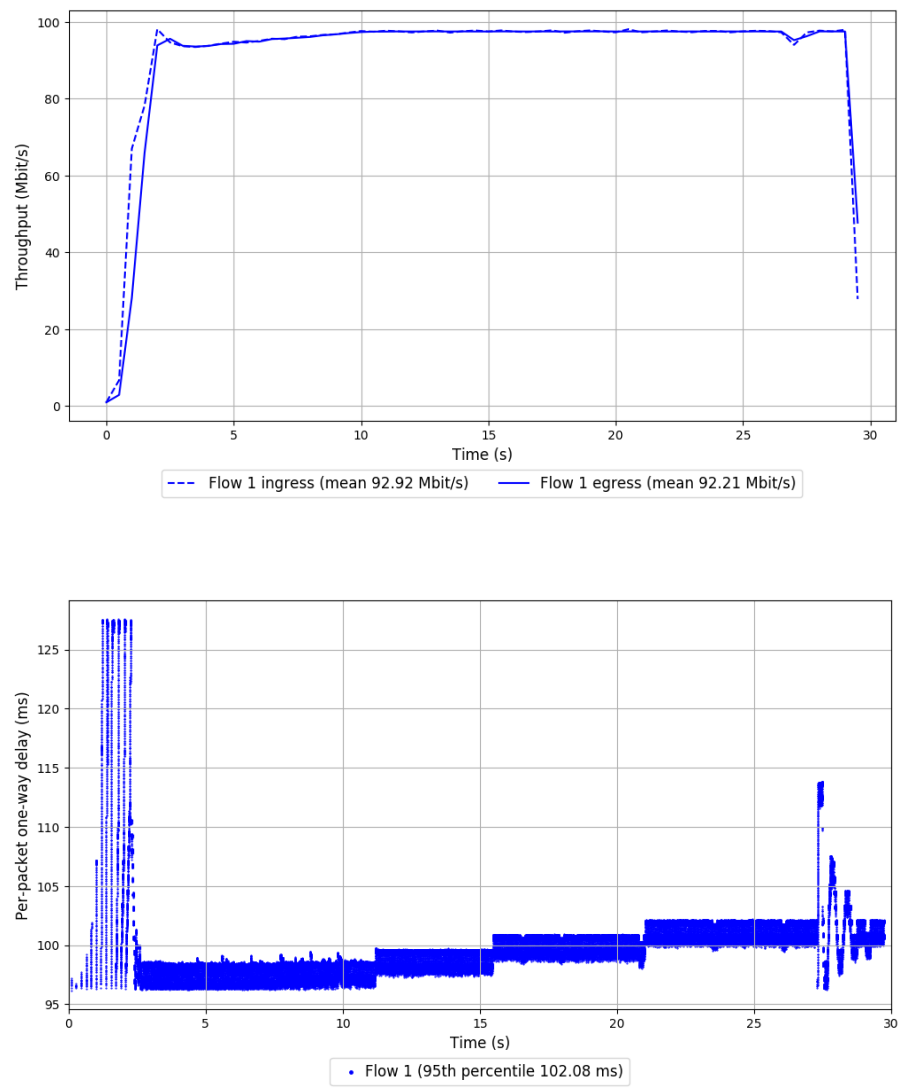
-- Flow 1:

Average throughput: 92.21 Mbit/s

95th percentile per-packet one-way delay: 102.082 ms

Loss rate: 0.74%

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



Run 1: Statistics of PCC-Vivace

Start at: 2018-04-24 08:46:37

End at: 2018-04-24 08:47:07

Local clock offset: -5.949 ms

Remote clock offset: 8.722 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 127.167 ms

Loss rate: 0.15%

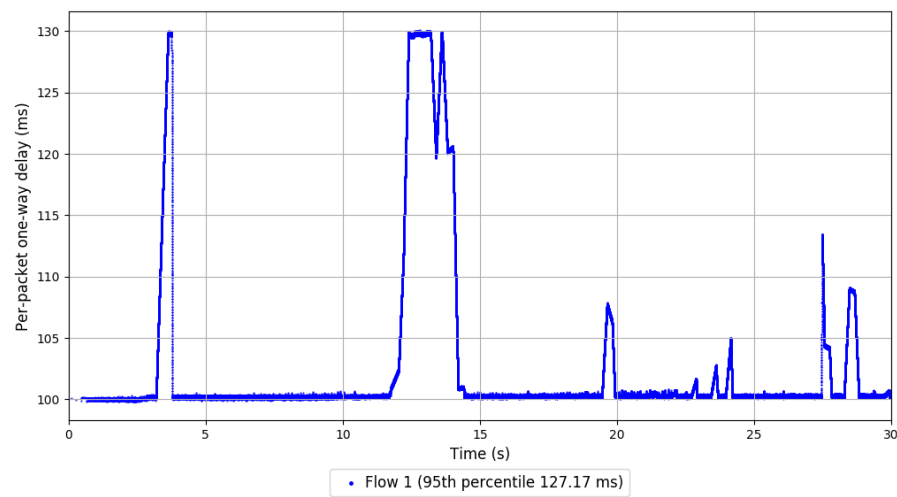
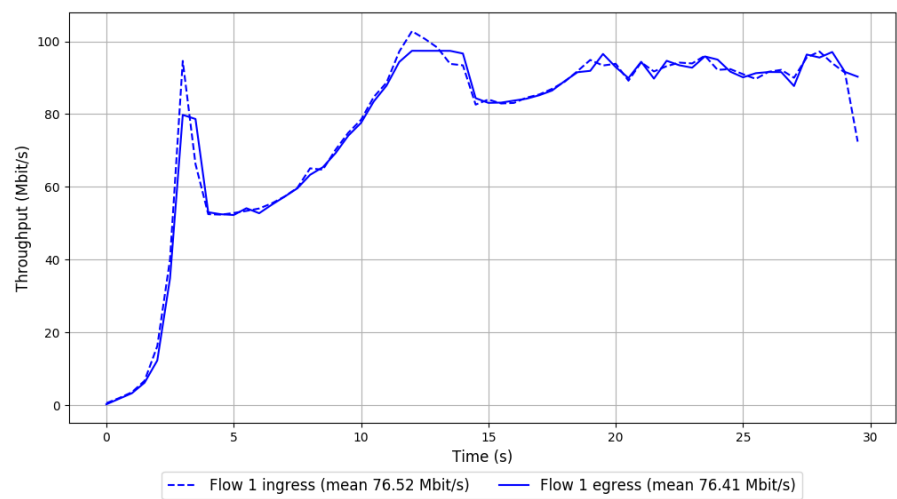
-- Flow 1:

Average throughput: 76.41 Mbit/s

95th percentile per-packet one-way delay: 127.167 ms

Loss rate: 0.15%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-04-24 09:07:40

End at: 2018-04-24 09:08:10

Local clock offset: -6.611 ms

Remote clock offset: 6.631 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 114.110 ms

Loss rate: 0.04%

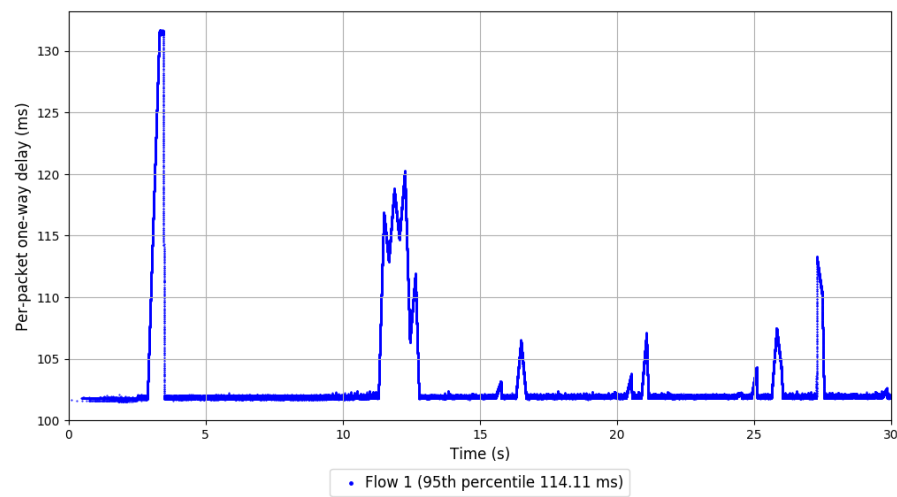
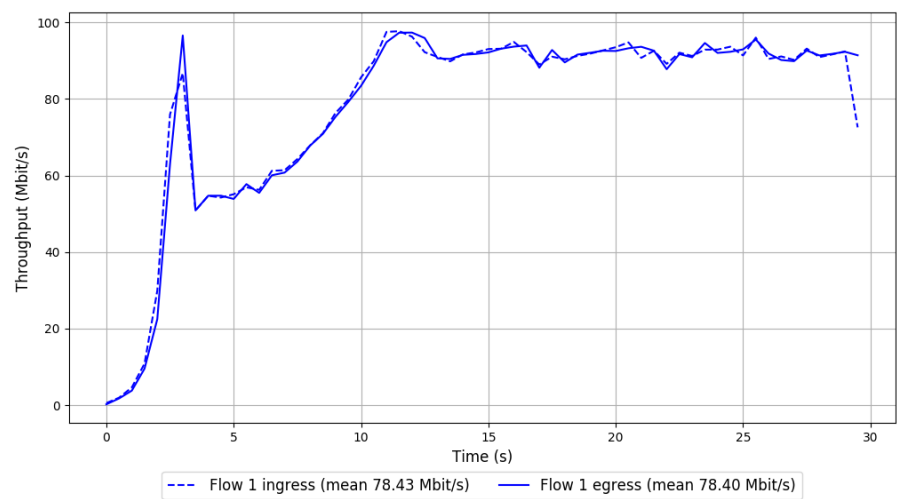
-- Flow 1:

Average throughput: 78.40 Mbit/s

95th percentile per-packet one-way delay: 114.110 ms

Loss rate: 0.04%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-04-24 09:28:46

End at: 2018-04-24 09:29:16

Local clock offset: -7.423 ms

Remote clock offset: 6.445 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.86 Mbit/s

95th percentile per-packet one-way delay: 115.868 ms

Loss rate: 0.05%

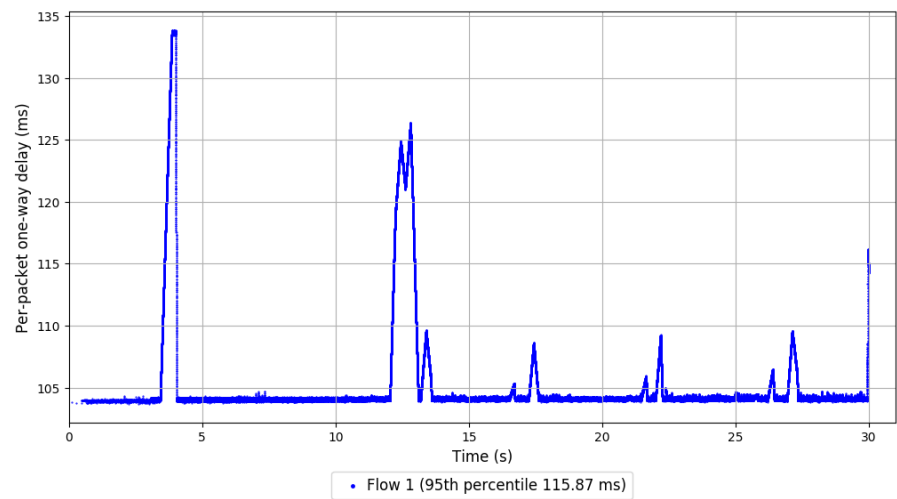
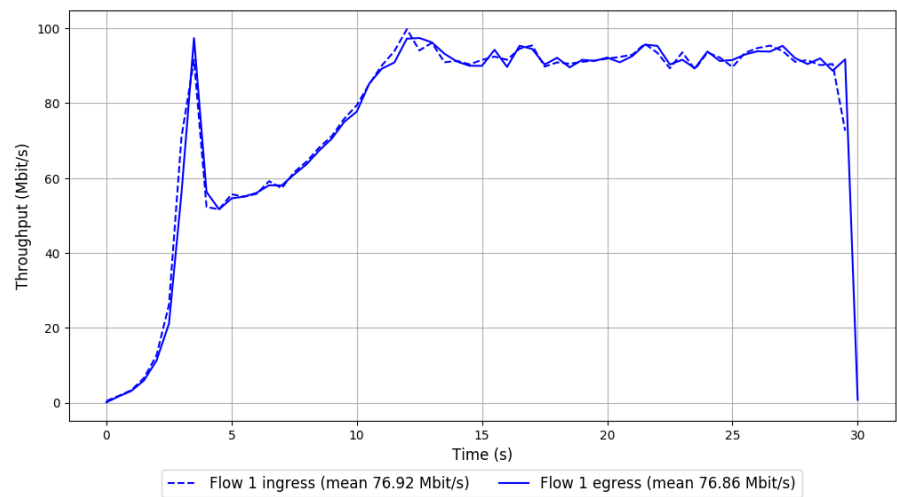
-- Flow 1:

Average throughput: 76.86 Mbit/s

95th percentile per-packet one-way delay: 115.868 ms

Loss rate: 0.05%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-04-24 09:49:49

End at: 2018-04-24 09:50:19

Local clock offset: -7.365 ms

Remote clock offset: 6.305 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 127.982 ms

Loss rate: 0.12%

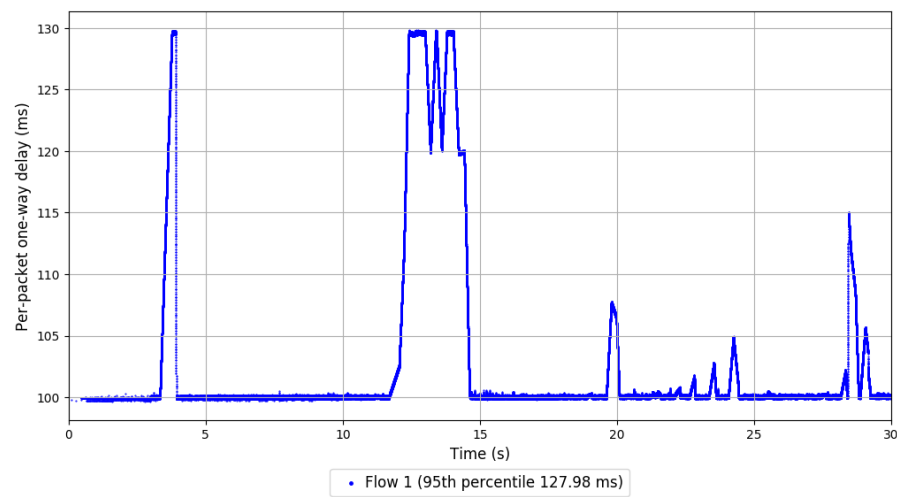
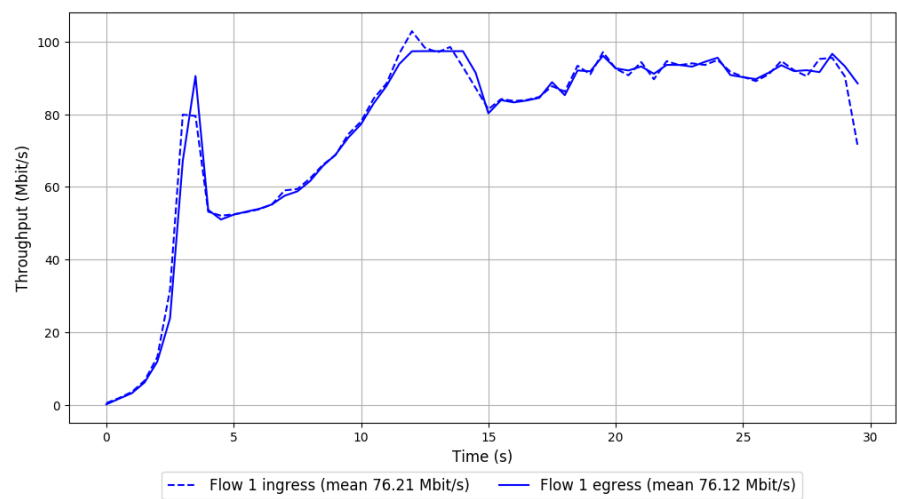
-- Flow 1:

Average throughput: 76.12 Mbit/s

95th percentile per-packet one-way delay: 127.982 ms

Loss rate: 0.12%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-04-24 10:10:49

End at: 2018-04-24 10:11:19

Local clock offset: -7.346 ms

Remote clock offset: 6.181 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.20 Mbit/s

95th percentile per-packet one-way delay: 116.084 ms

Loss rate: 0.05%

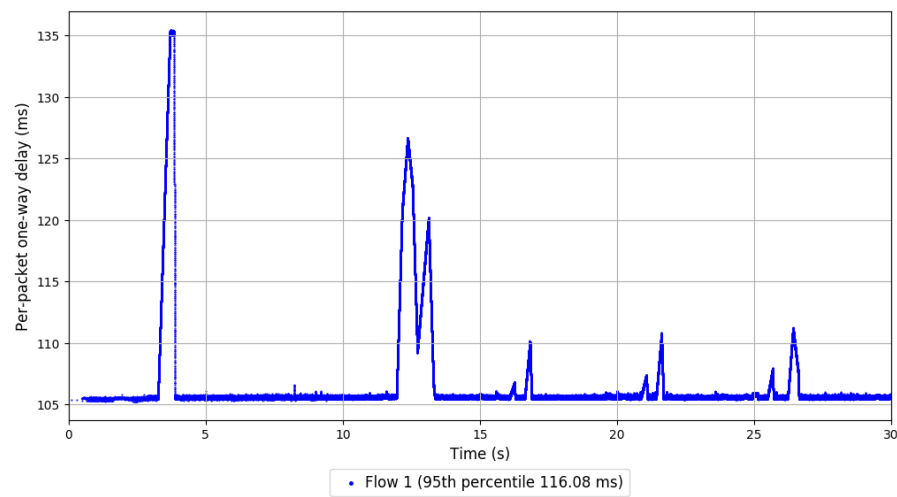
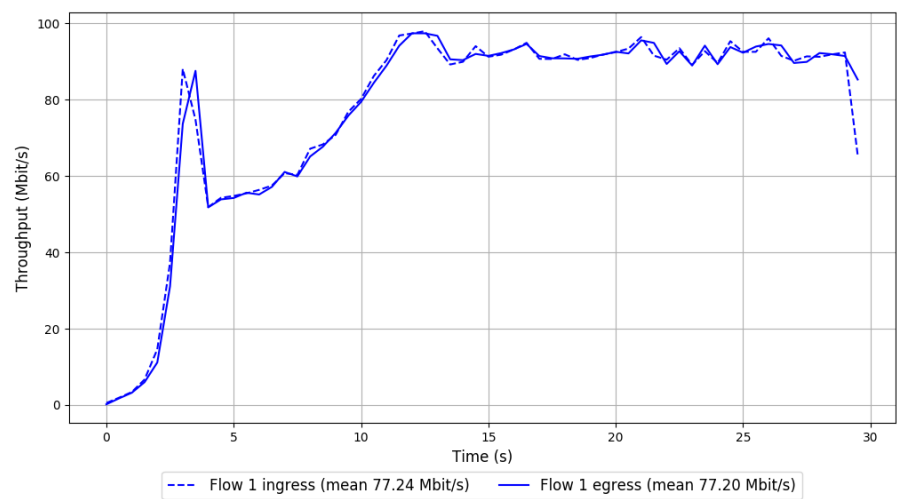
-- Flow 1:

Average throughput: 77.20 Mbit/s

95th percentile per-packet one-way delay: 116.084 ms

Loss rate: 0.05%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-04-24 10:31:51

End at: 2018-04-24 10:32:21

Local clock offset: -7.277 ms

Remote clock offset: 1.659 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 111.428 ms

Loss rate: 0.05%

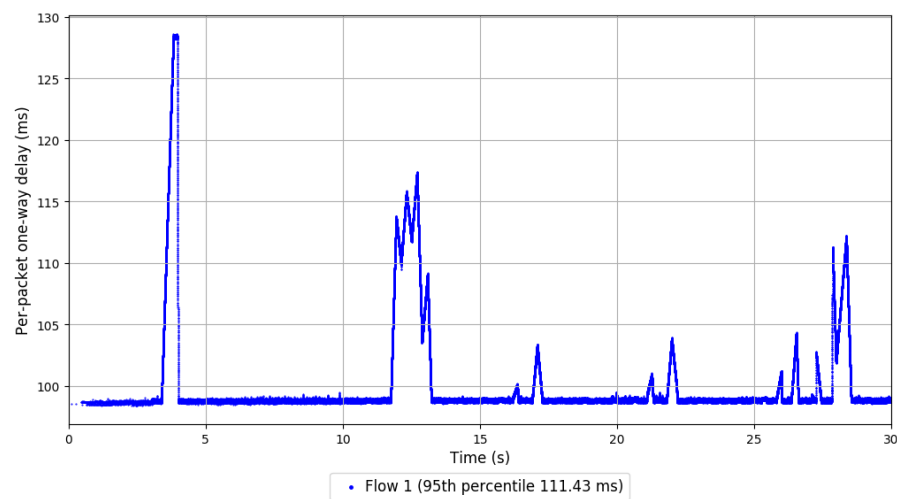
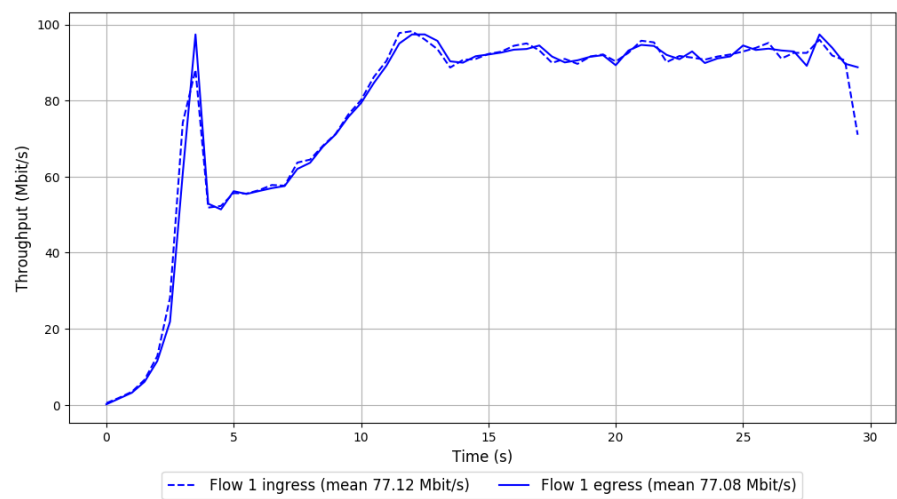
-- Flow 1:

Average throughput: 77.08 Mbit/s

95th percentile per-packet one-way delay: 111.428 ms

Loss rate: 0.05%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-04-24 10:52:38

End at: 2018-04-24 10:53:08

Local clock offset: -6.737 ms

Remote clock offset: 5.786 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.26 Mbit/s

95th percentile per-packet one-way delay: 125.439 ms

Loss rate: 0.15%

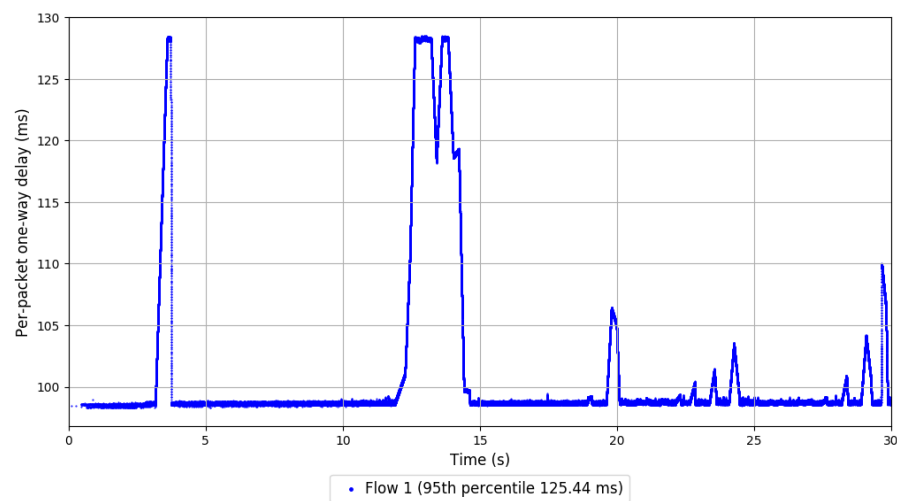
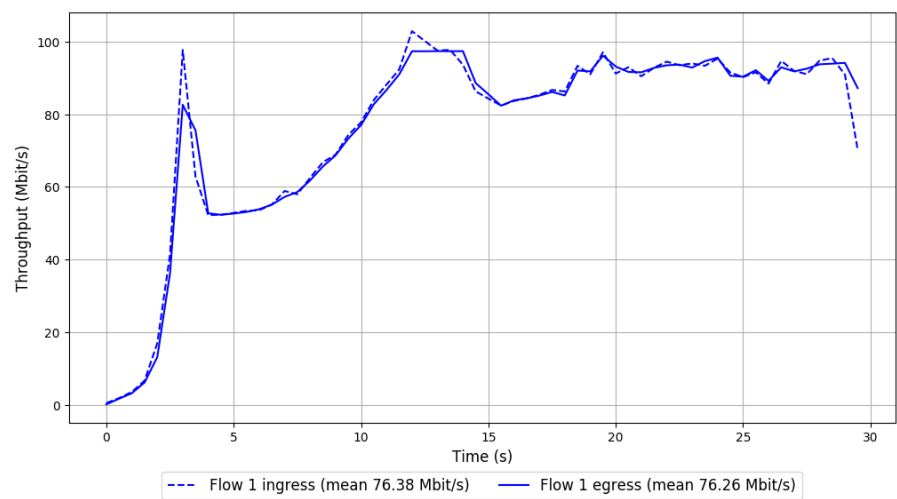
-- Flow 1:

Average throughput: 76.26 Mbit/s

95th percentile per-packet one-way delay: 125.439 ms

Loss rate: 0.15%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-04-24 11:13:47

End at: 2018-04-24 11:14:17

Local clock offset: -6.145 ms

Remote clock offset: 2.782 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 115.656 ms

Loss rate: 0.06%

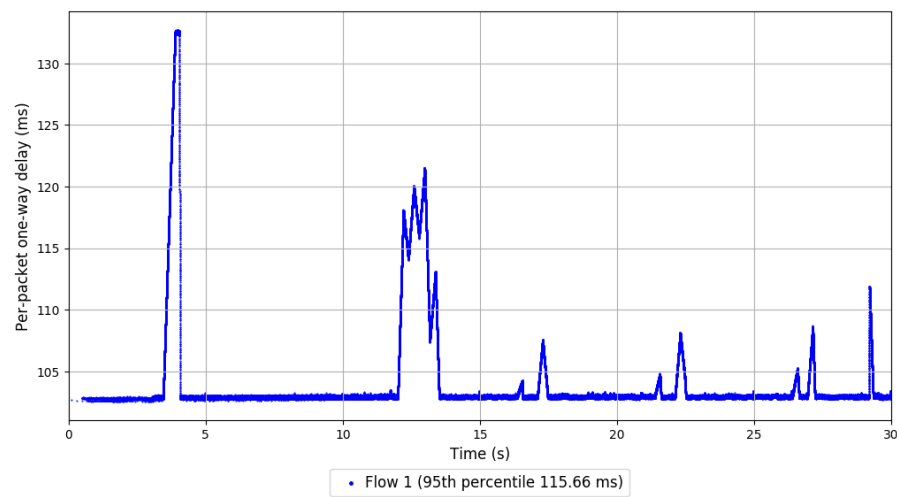
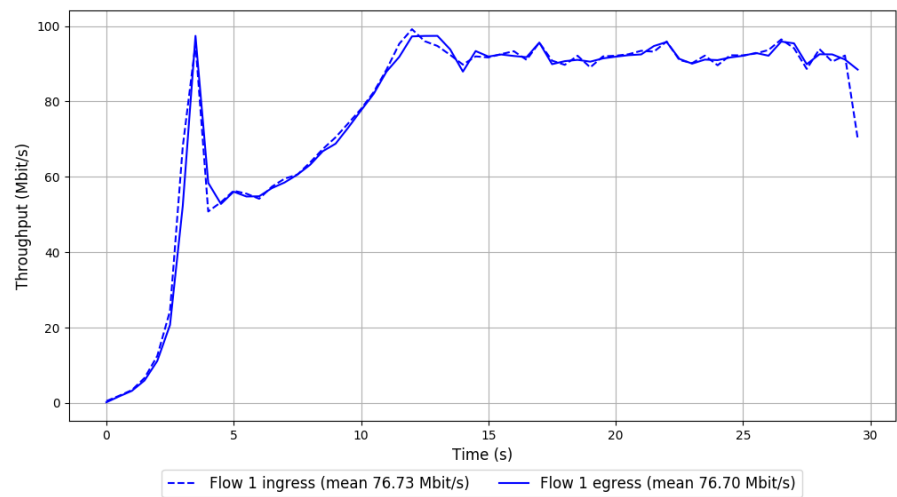
-- Flow 1:

Average throughput: 76.70 Mbit/s

95th percentile per-packet one-way delay: 115.656 ms

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-04-24 11:34:57

End at: 2018-04-24 11:35:27

Local clock offset: -6.462 ms

Remote clock offset: 5.724 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 134.180 ms

Loss rate: 0.20%

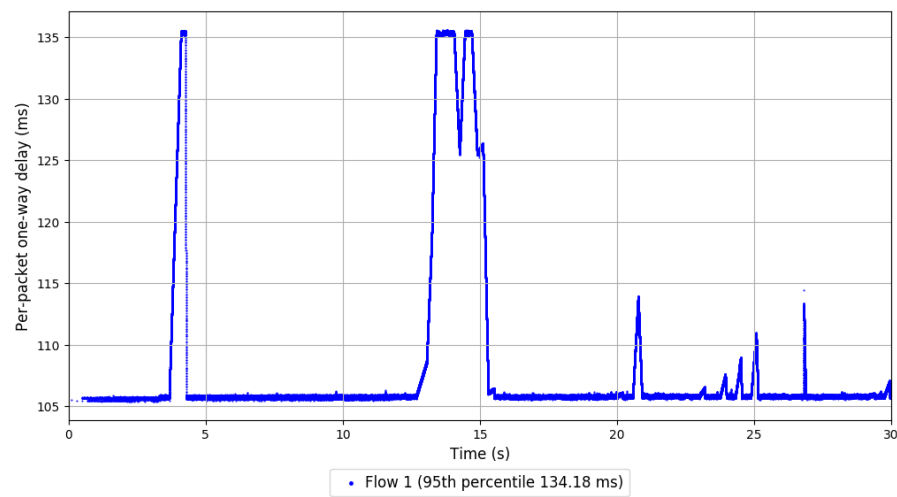
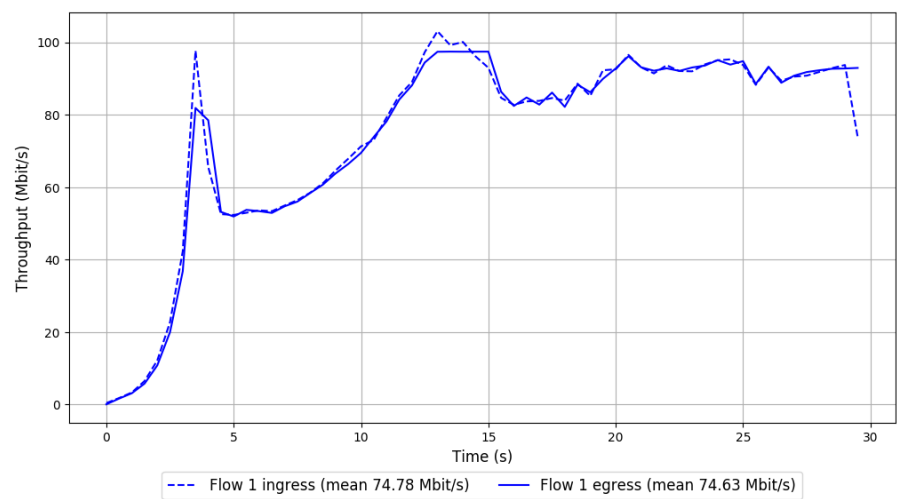
-- Flow 1:

Average throughput: 74.63 Mbit/s

95th percentile per-packet one-way delay: 134.180 ms

Loss rate: 0.20%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-04-24 11:56:02

End at: 2018-04-24 11:56:32

Local clock offset: -5.896 ms

Remote clock offset: 5.412 ms

Below is generated by plot.py at 2018-04-24 12:50:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 110.834 ms

Loss rate: 0.08%

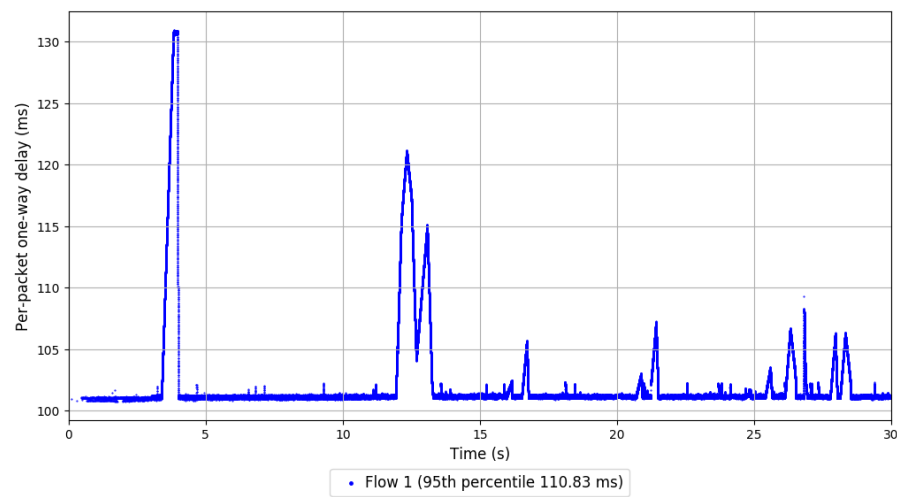
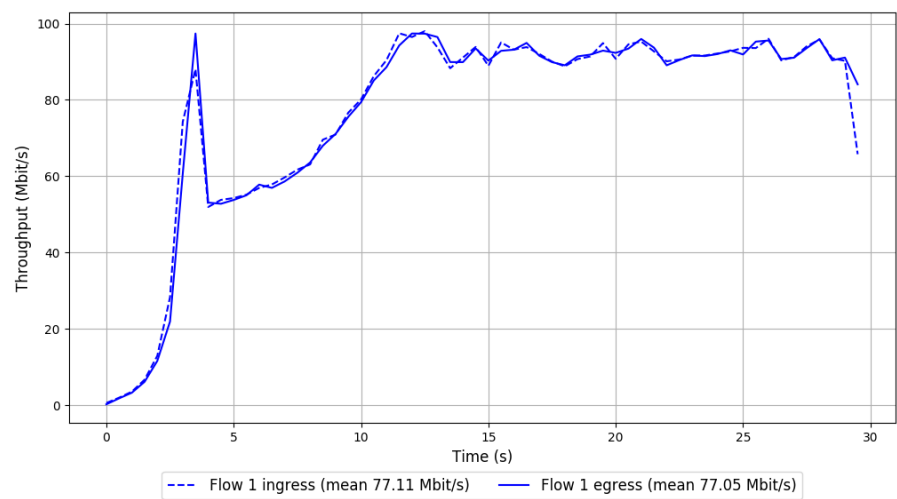
-- Flow 1:

Average throughput: 77.05 Mbit/s

95th percentile per-packet one-way delay: 110.834 ms

Loss rate: 0.08%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-04-24 08:34:36

End at: 2018-04-24 08:35:06

Local clock offset: -7.362 ms

Remote clock offset: 4.08 ms

Run 1: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 2: Statistics of PCC-Expr

Start at: 2018-04-24 08:55:35

End at: 2018-04-24 08:56:06

Local clock offset: -7.433 ms

Remote clock offset: 6.173 ms

Run 2: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of PCC-Expr

Start at: 2018-04-24 09:16:39

End at: 2018-04-24 09:17:09

Local clock offset: -6.642 ms

Remote clock offset: 1.775 ms

Run 3: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2018-04-24 09:37:45

End at: 2018-04-24 09:38:15

Local clock offset: -5.929 ms

Remote clock offset: 6.394 ms

Run 4: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of PCC-Expr

Start at: 2018-04-24 09:58:46

End at: 2018-04-24 09:59:16

Local clock offset: -7.346 ms

Remote clock offset: 2.377 ms

Run 5: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 6: Statistics of PCC-Expr

Start at: 2018-04-24 10:19:47

End at: 2018-04-24 10:20:17

Local clock offset: -7.754 ms

Remote clock offset: 6.15 ms

Run 6: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 7: Statistics of PCC-Expr

Start at: 2018-04-24 10:40:34

End at: 2018-04-24 10:41:04

Local clock offset: -8.112 ms

Remote clock offset: 5.629 ms

Run 7: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 8: Statistics of PCC-Expr

Start at: 2018-04-24 11:01:39

End at: 2018-04-24 11:02:09

Local clock offset: -7.189 ms

Remote clock offset: 2.885 ms

Run 8: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 9: Statistics of PCC-Expr

Start at: 2018-04-24 11:22:50

End at: 2018-04-24 11:23:20

Local clock offset: -7.045 ms

Remote clock offset: 6.536 ms

Run 9: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing

Run 10: Statistics of PCC-Expr

Start at: 2018-04-24 11:43:56

End at: 2018-04-24 11:44:26

Local clock offset: -6.605 ms

Remote clock offset: 6.319 ms

Run 10: Report of PCC-Expr — Data Link

Figure is missing

Figure is missing