

Pantheon Report

Generated at 2017-11-30 17:23:52 (UTC).

Data path: AWS California 1 Ethernet (*local*) → Stanford Ethernet (*remote*).

Repeated the test of 14 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).

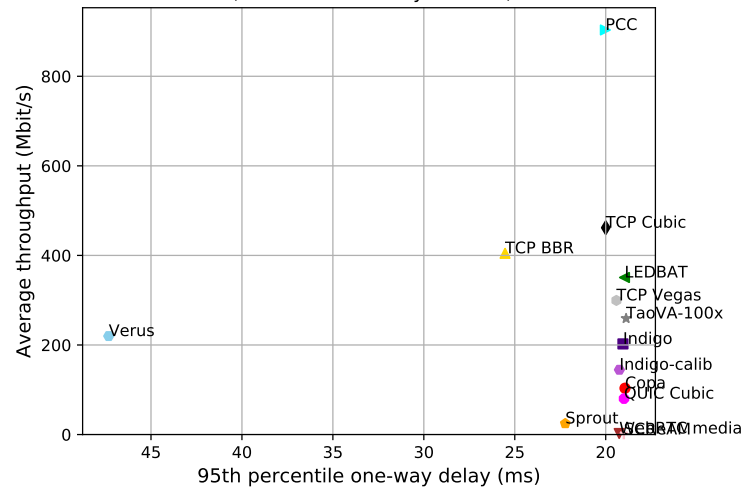
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

NTP offsets were measured against `time.stanford.edu` and have been applied to correct the timestamps in logs.

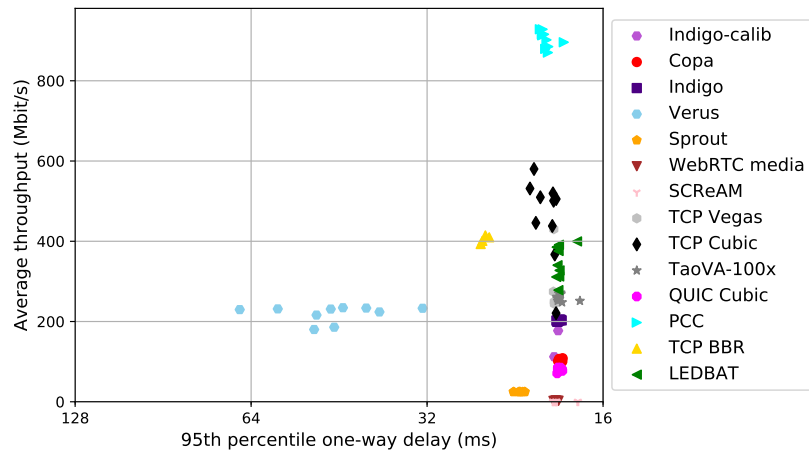
Git summary:

```
branch: indigos @ e3a57ad5ac5cfcaca0e3f983c8dd4cc3509e0262
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ b5b7c38e8391001927dc41c6cfa2627d03dde737
third_party/indigo @ b19f3730105f9aa95452552af924e3719b03cc55
third_party/indigo-cellular @ aee99e8eb842cb053f8c9a80e28cd256a930bbc2
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/indigo-no-cwnd @ 3e58442c04028a11d7b02456e137604633ba2d6c
third_party/indigo-no-delivery-rate @ 57caa40858b964906edff4876d5a7e5bfff666c5
third_party/indigo-no-queuing-delay @ 03455460fd1a8ffbdad86fab936fdca204b80db
third_party/indigo-no-send-rate @ b39dfa6b2c5f19cb7cd89626cb4f5bb81f9fecda
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ 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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 1 Ethernet to Stanford Ethernet, 10 runs of 30s each per scheme



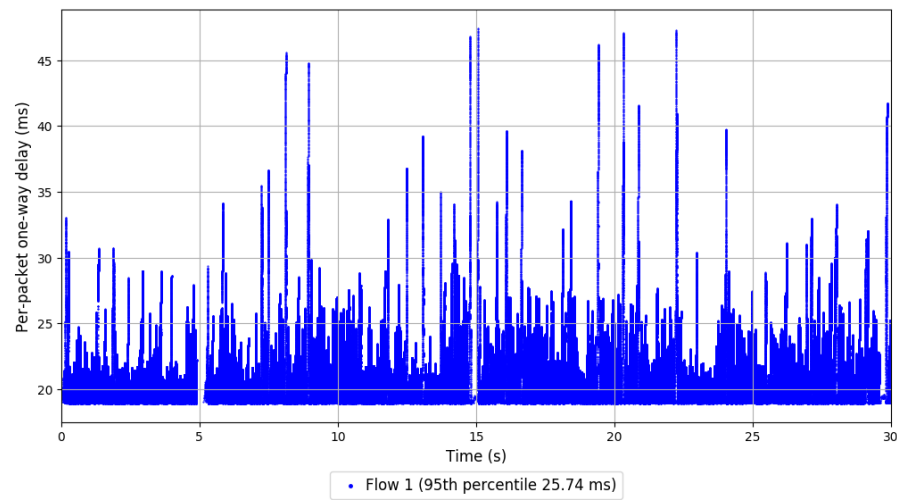
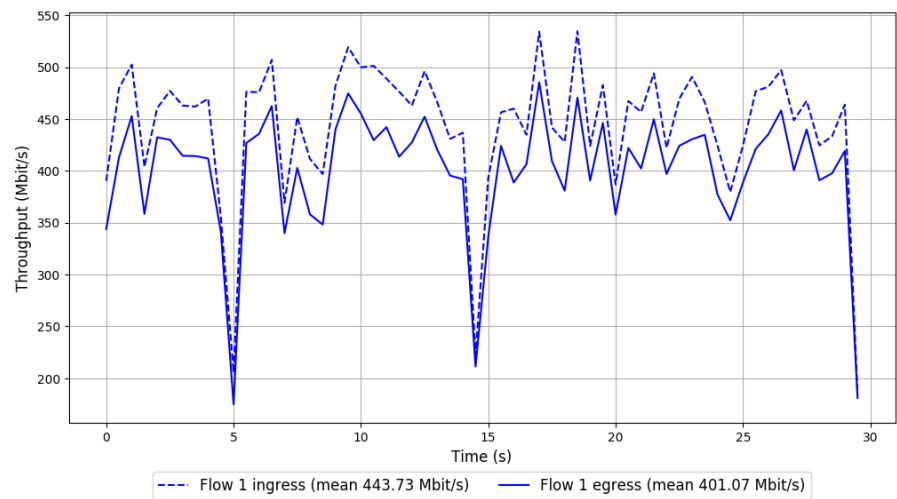
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	4	404.72	25.53	8.72
TCP Cubic	10	461.88	20.00	0.07
LEDBAT	10	350.69	18.97	0.01
PCC	10	903.43	20.02	0.27
QUIC Cubic	10	80.18	18.99	0.00
SCReAM	10	0.22	19.00	0.00
WebRTC media	10	2.33	19.26	0.01
Sprout	9	24.70	22.22	0.00
TaoVA-100x	10	259.25	18.88	0.01
TCP Vegas	4	299.48	19.41	0.01
Verus	10	219.91	47.33	17.22
Copa	10	103.49	18.94	0.00
Indigo	10	202.39	19.05	0.00
Indigo-calib	2	144.67	19.25	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-30 11:57:45
End at: 2017-11-30 11:58:15
Local clock offset: -0.095 ms
Remote clock offset: -1.285 ms

Below is generated by plot.py at 2017-11-30 16:26:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 401.07 Mbit/s
95th percentile per-packet one-way delay: 25.740 ms
Loss rate: 9.61%
-- Flow 1:
Average throughput: 401.07 Mbit/s
95th percentile per-packet one-way delay: 25.740 ms
Loss rate: 9.61%

Run 1: Report of TCP BBR — Data Link

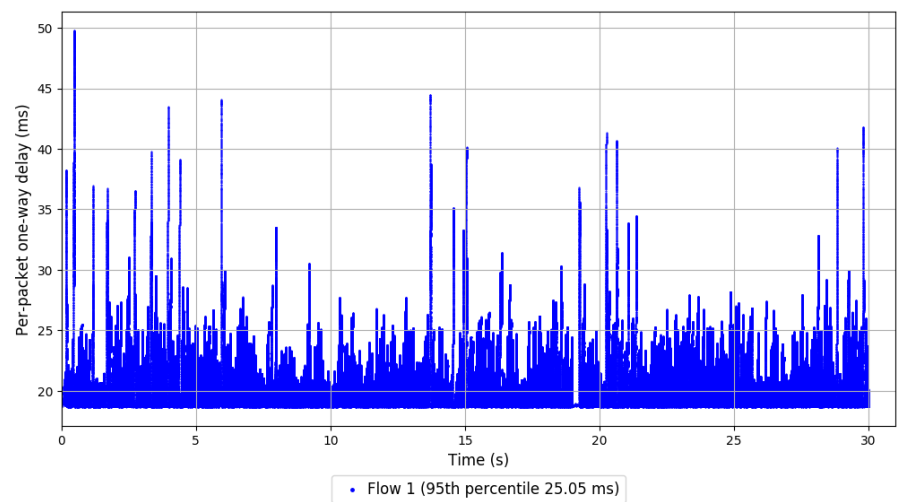
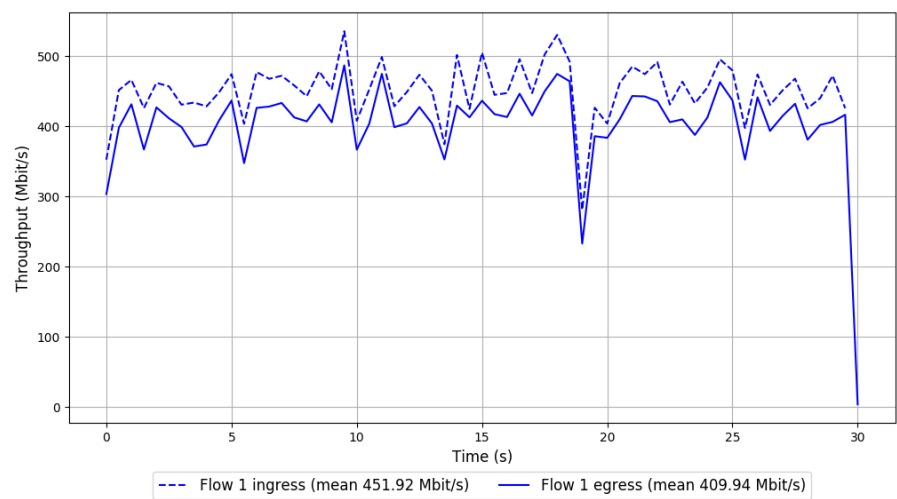


Run 2: Statistics of TCP BBR

Start at: 2017-11-30 12:16:27
End at: 2017-11-30 12:16:57
Local clock offset: 0.087 ms
Remote clock offset: -1.675 ms

Below is generated by plot.py at 2017-11-30 16:26:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 409.94 Mbit/s
95th percentile per-packet one-way delay: 25.052 ms
Loss rate: 9.29%
-- Flow 1:
Average throughput: 409.94 Mbit/s
95th percentile per-packet one-way delay: 25.052 ms
Loss rate: 9.29%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

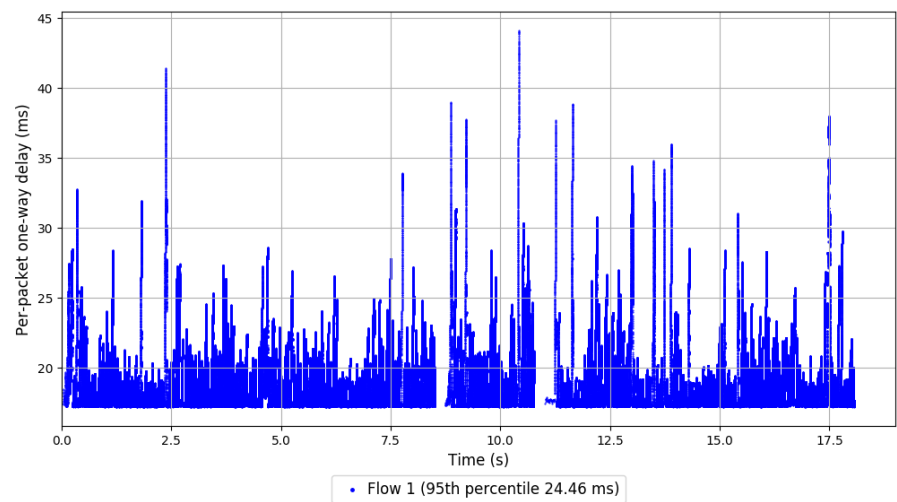
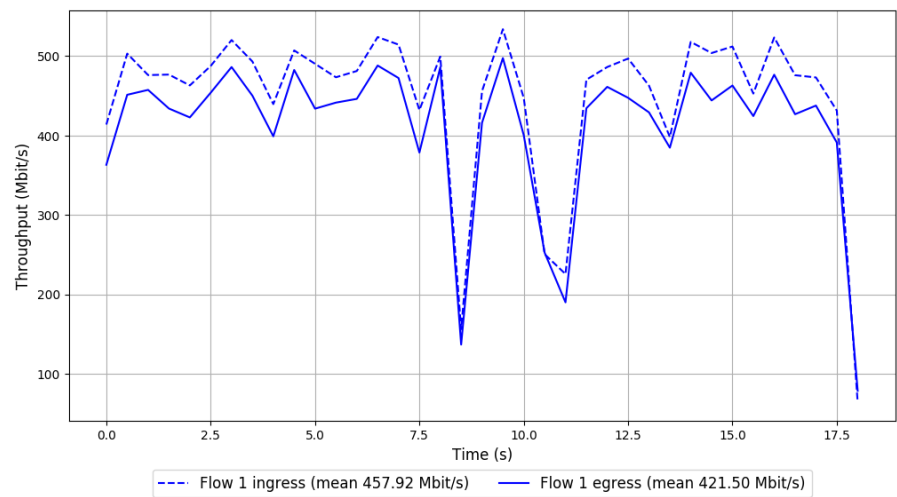
Start at: 2017-11-30 12:35:12

End at: 2017-11-30 12:35:42

Local clock offset: 0.111 ms

Remote clock offset: -1.782 ms

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

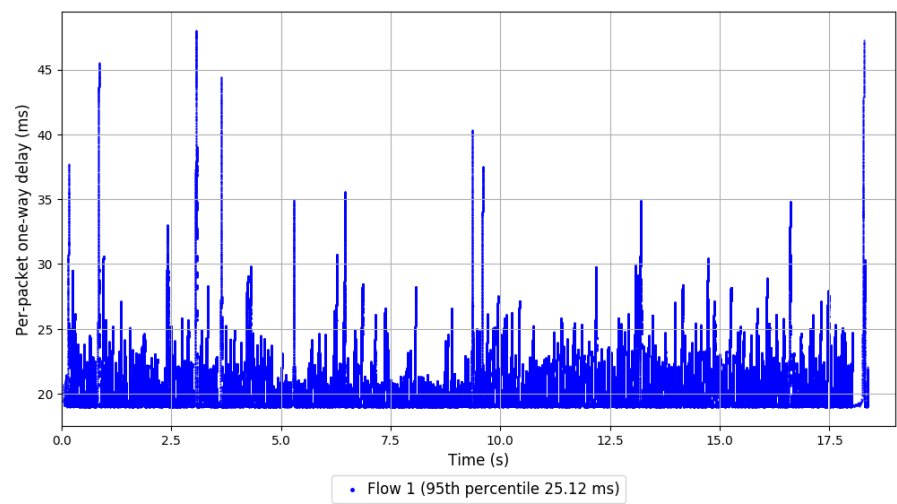
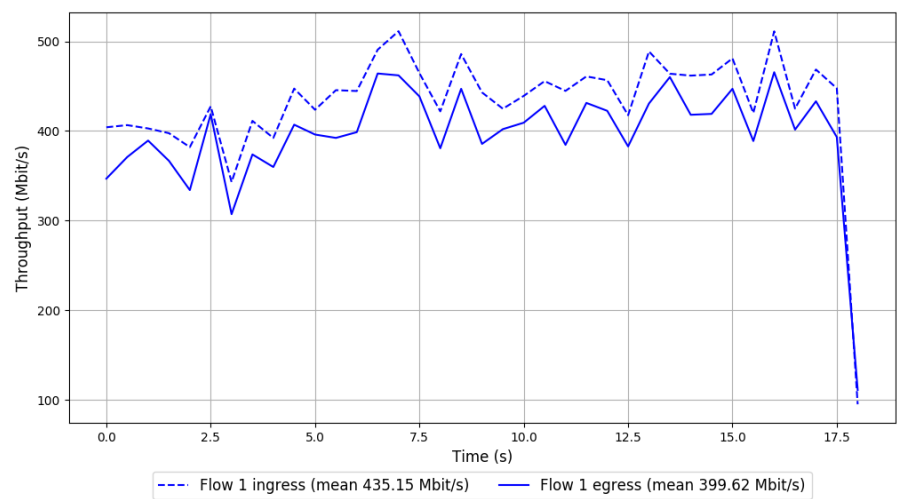
Start at: 2017-11-30 12:54:09

End at: 2017-11-30 12:54:39

Local clock offset: -0.012 ms

Remote clock offset: -1.982 ms

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

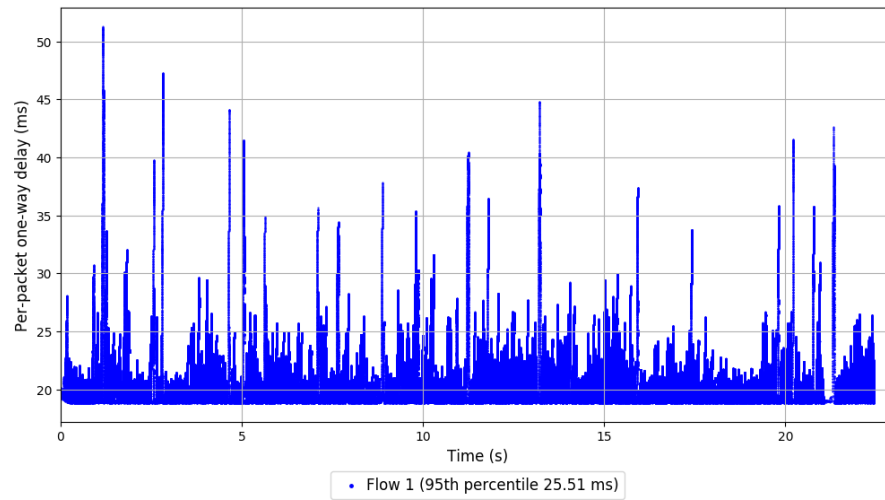
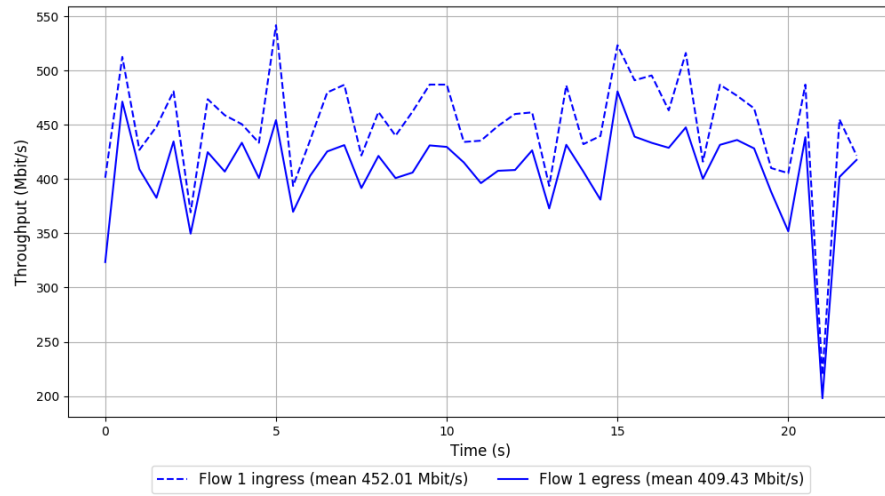
Start at: 2017-11-30 13:12:45

End at: 2017-11-30 13:13:15

Local clock offset: -0.042 ms

Remote clock offset: -1.64 ms

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

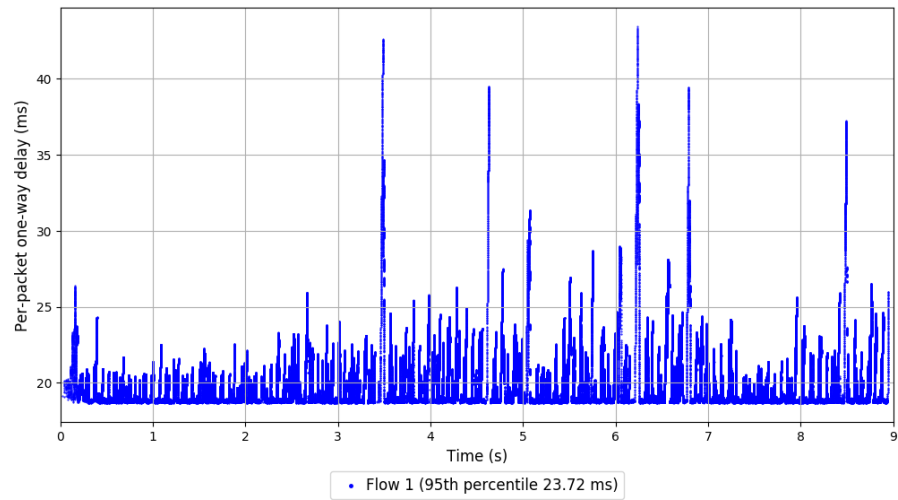
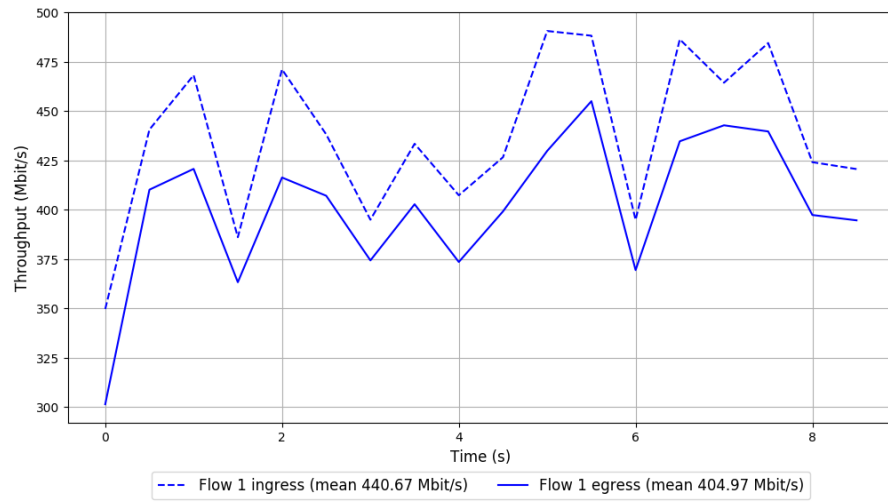
Start at: 2017-11-30 13:31:27

End at: 2017-11-30 13:31:57

Local clock offset: 0.125 ms

Remote clock offset: -1.54 ms

Run 6: Report of TCP BBR — Data Link

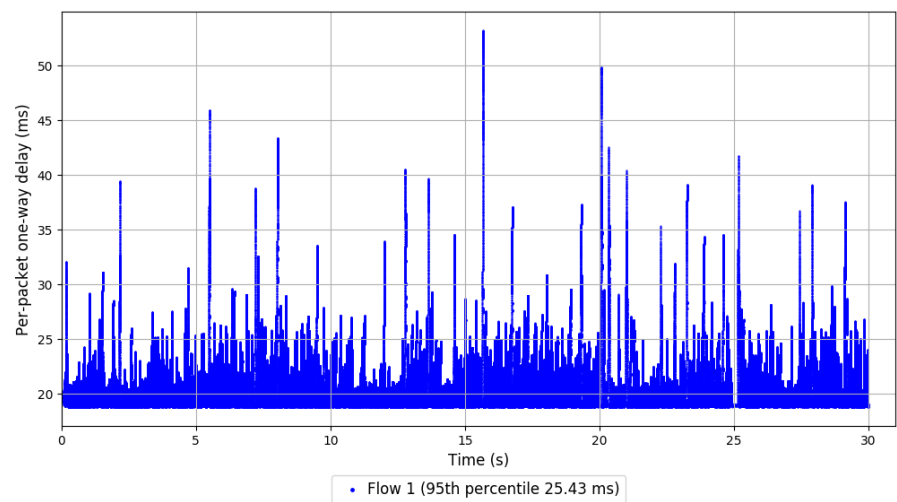
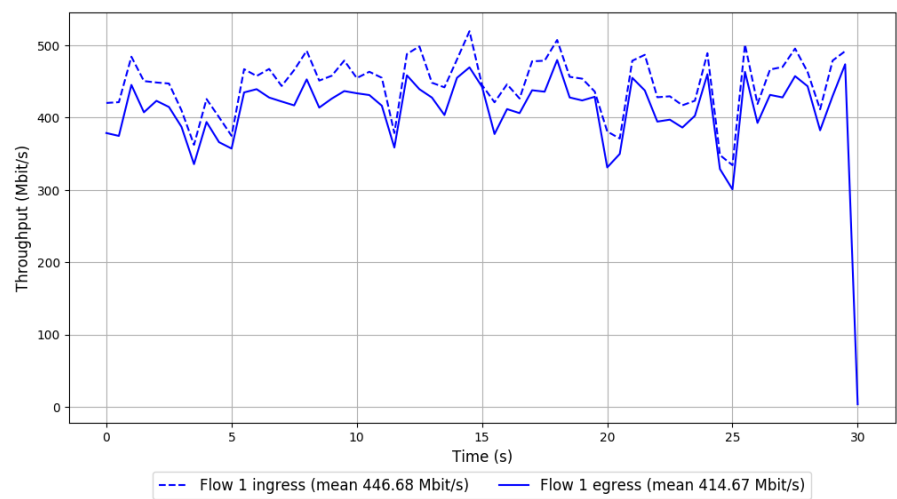


Run 7: Statistics of TCP BBR

Start at: 2017-11-30 13:49:47
End at: 2017-11-30 13:50:17
Local clock offset: 0.053 ms
Remote clock offset: -1.488 ms

Below is generated by plot.py at 2017-11-30 16:26:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 414.67 Mbit/s
95th percentile per-packet one-way delay: 25.434 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 414.67 Mbit/s
95th percentile per-packet one-way delay: 25.434 ms
Loss rate: 7.17%

Run 7: Report of TCP BBR — Data Link

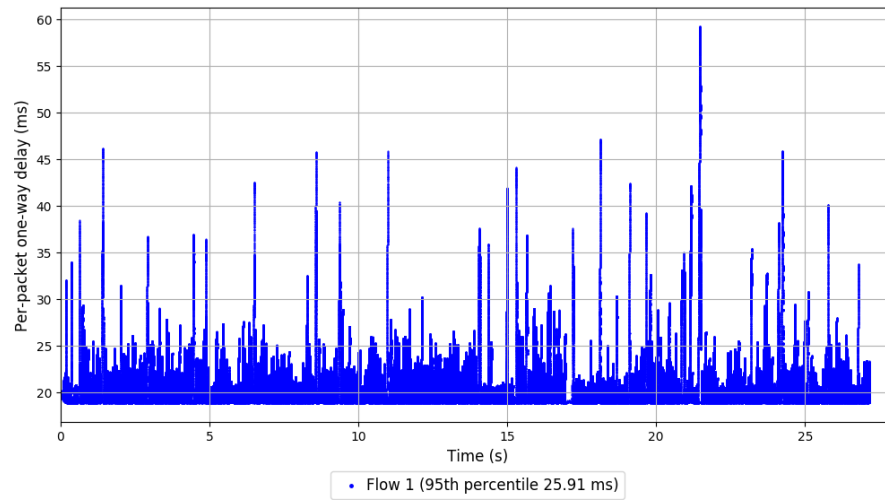
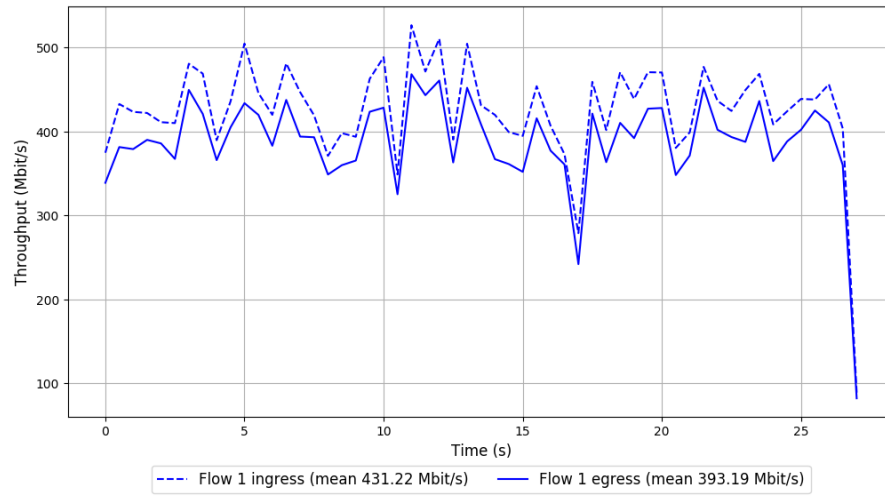


Run 8: Statistics of TCP BBR

Start at: 2017-11-30 14:08:51
End at: 2017-11-30 14:09:21
Local clock offset: 0.143 ms
Remote clock offset: -1.502 ms

Below is generated by plot.py at 2017-11-30 16:26:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 393.19 Mbit/s
95th percentile per-packet one-way delay: 25.910 ms
Loss rate: 8.81%
-- Flow 1:
Average throughput: 393.19 Mbit/s
95th percentile per-packet one-way delay: 25.910 ms
Loss rate: 8.81%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

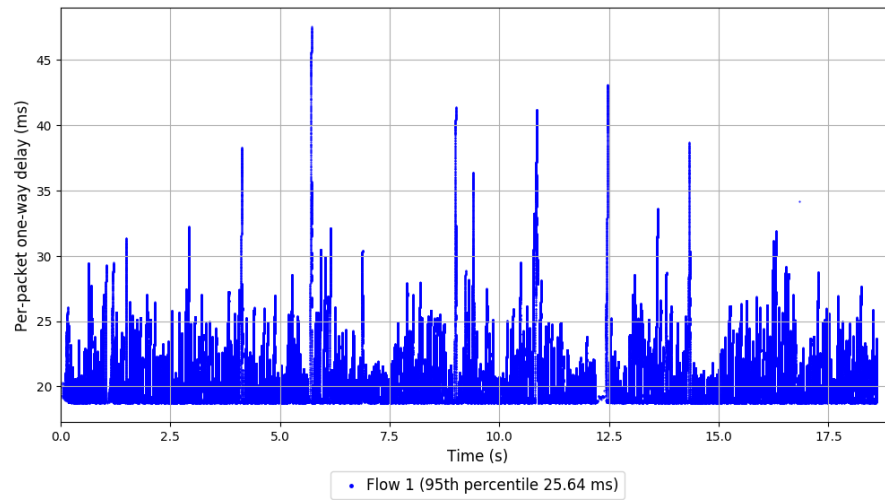
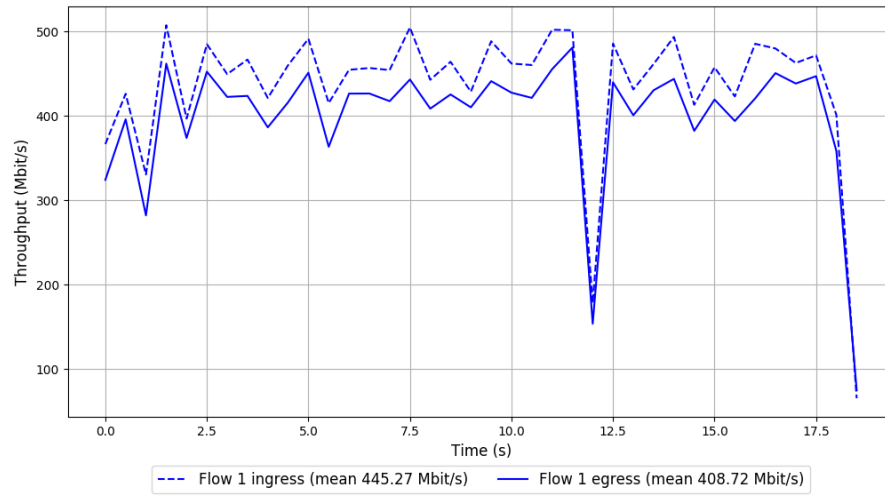
Start at: 2017-11-30 14:27:39

End at: 2017-11-30 14:28:09

Local clock offset: -0.006 ms

Remote clock offset: -1.609 ms

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

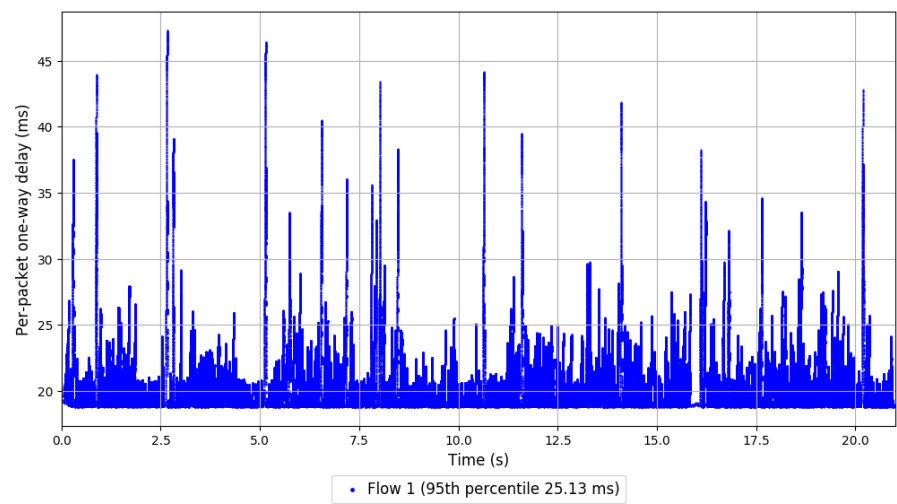
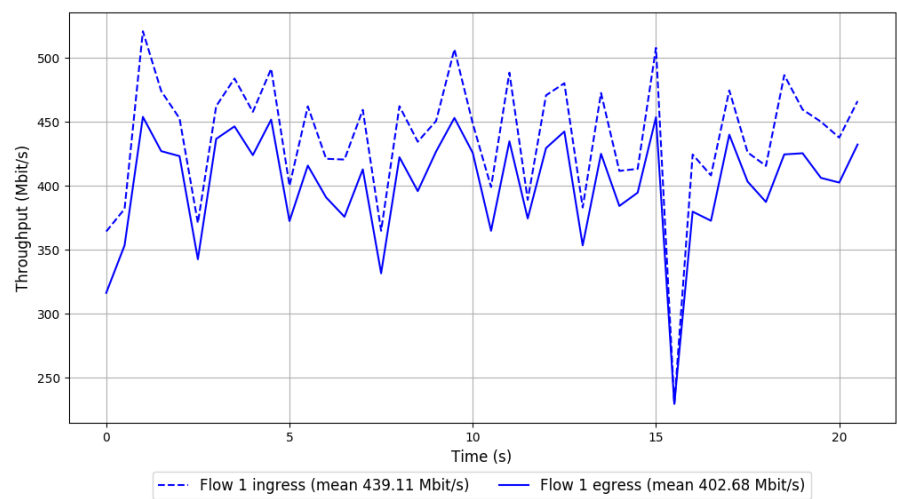
Start at: 2017-11-30 14:46:17

End at: 2017-11-30 14:46:48

Local clock offset: -0.085 ms

Remote clock offset: -1.886 ms

Run 10: Report of TCP BBR — Data Link

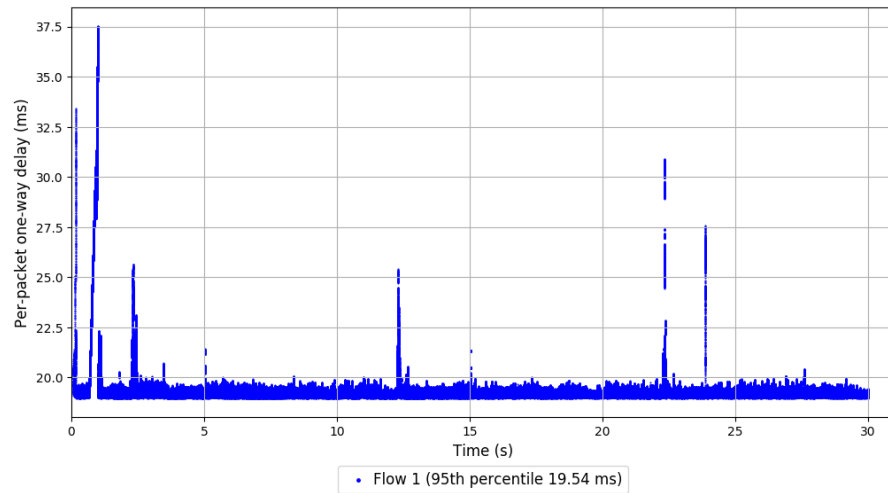
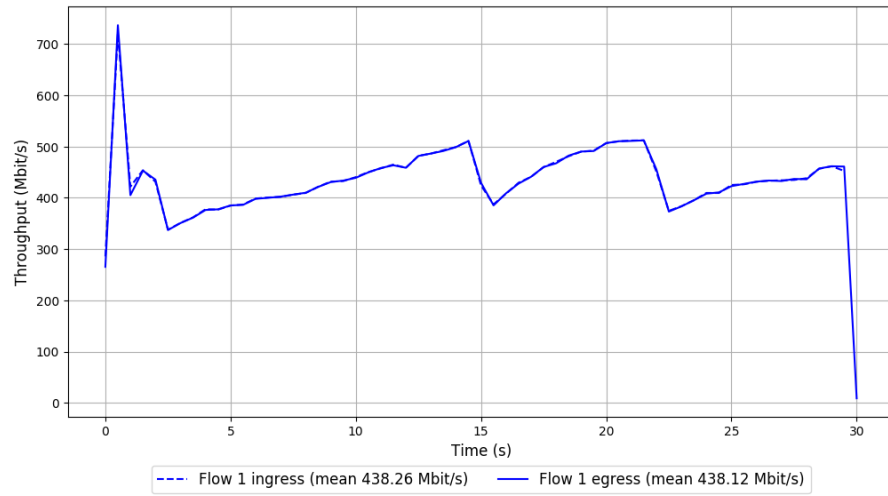


Run 1: Statistics of TCP Cubic

Start at: 2017-11-30 12:13:37
End at: 2017-11-30 12:14:07
Local clock offset: -0.031 ms
Remote clock offset: -1.664 ms

Below is generated by plot.py at 2017-11-30 16:30:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 438.12 Mbit/s
95th percentile per-packet one-way delay: 19.538 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 438.12 Mbit/s
95th percentile per-packet one-way delay: 19.538 ms
Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link

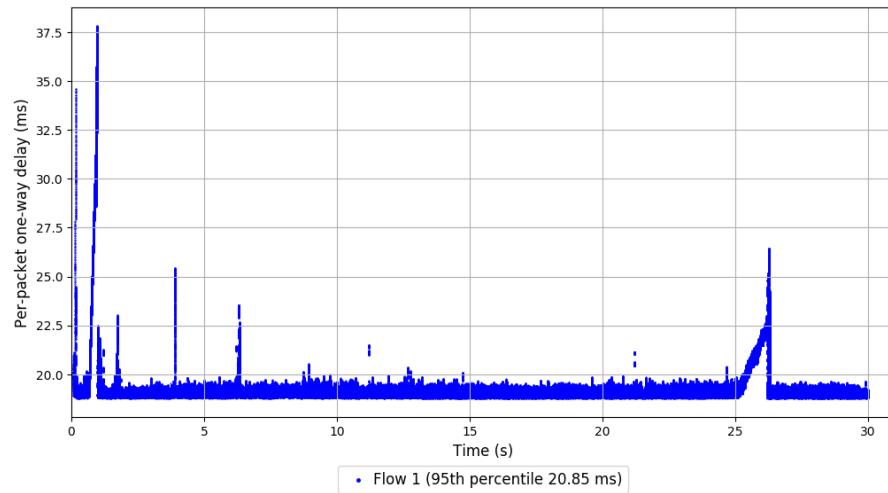
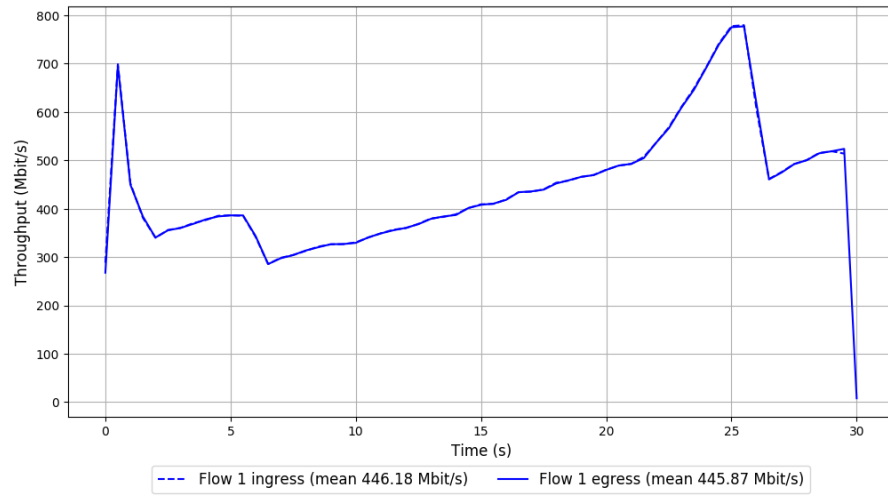


Run 2: Statistics of TCP Cubic

Start at: 2017-11-30 12:32:22
End at: 2017-11-30 12:32:52
Local clock offset: 0.035 ms
Remote clock offset: -1.683 ms

Below is generated by plot.py at 2017-11-30 16:31:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 445.87 Mbit/s
95th percentile per-packet one-way delay: 20.849 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 445.87 Mbit/s
95th percentile per-packet one-way delay: 20.849 ms
Loss rate: 0.08%

Run 2: Report of TCP Cubic — Data Link

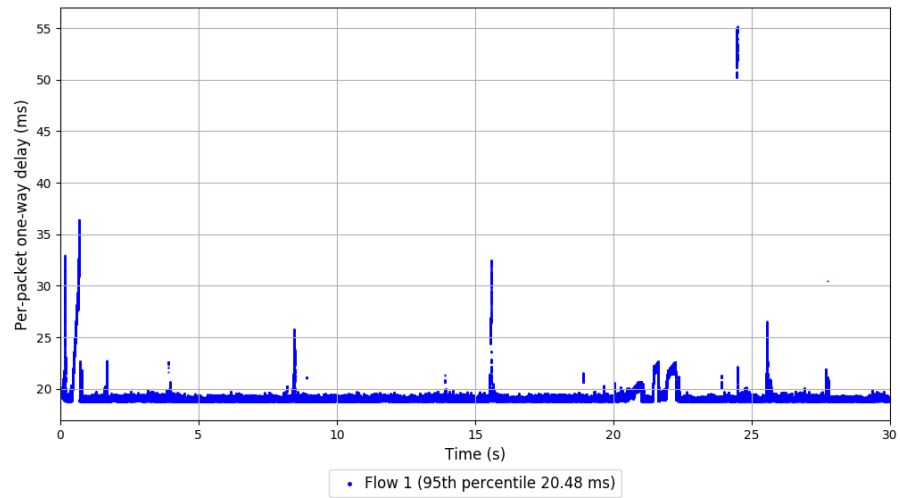
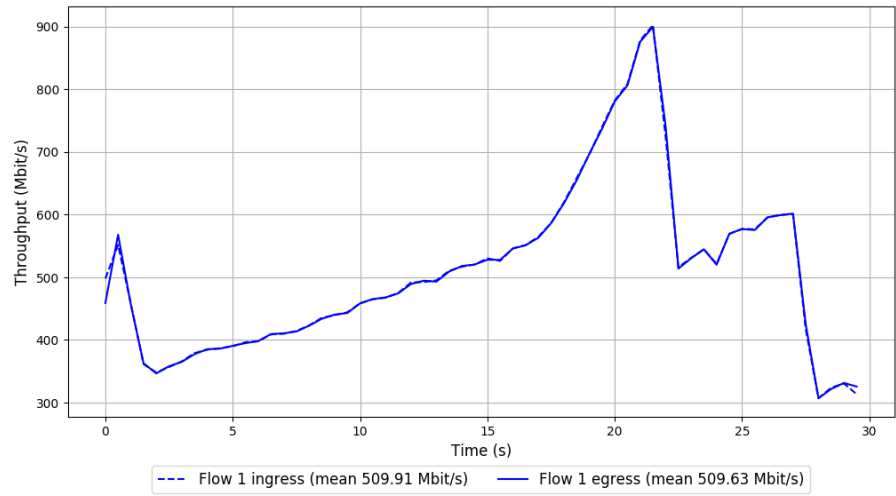


Run 3: Statistics of TCP Cubic

Start at: 2017-11-30 12:51:18
End at: 2017-11-30 12:51:48
Local clock offset: 0.008 ms
Remote clock offset: -1.951 ms

Below is generated by plot.py at 2017-11-30 16:32:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 509.63 Mbit/s
95th percentile per-packet one-way delay: 20.482 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 509.63 Mbit/s
95th percentile per-packet one-way delay: 20.482 ms
Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link

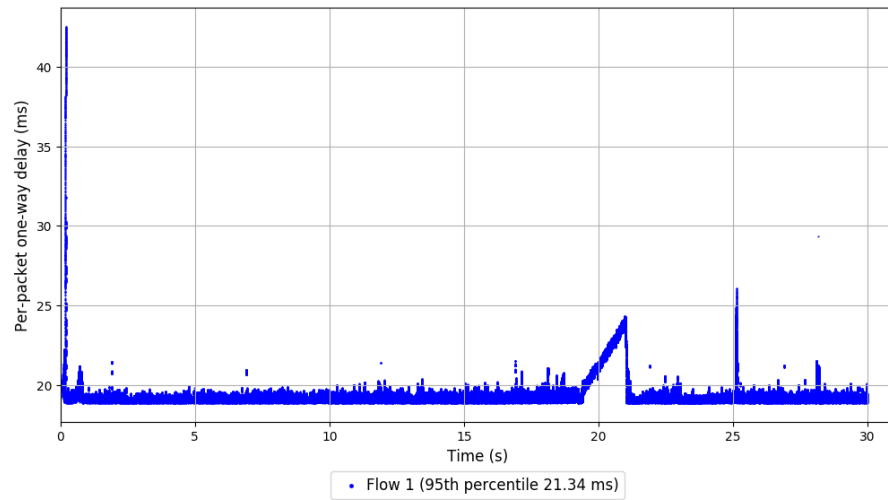
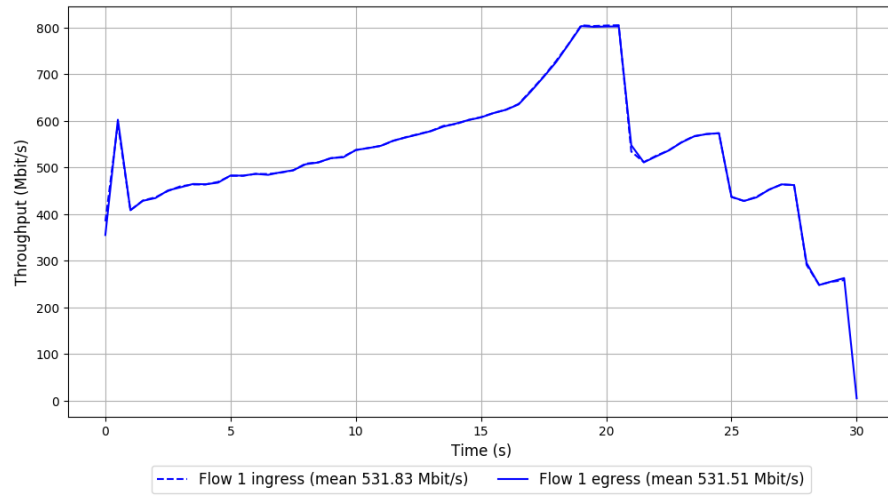


Run 4: Statistics of TCP Cubic

Start at: 2017-11-30 13:09:51
End at: 2017-11-30 13:10:21
Local clock offset: 0.003 ms
Remote clock offset: -1.812 ms

Below is generated by plot.py at 2017-11-30 16:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 531.51 Mbit/s
95th percentile per-packet one-way delay: 21.337 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 531.51 Mbit/s
95th percentile per-packet one-way delay: 21.337 ms
Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2017-11-30 13:28:44

End at: 2017-11-30 13:29:15

Local clock offset: 0.11 ms

Remote clock offset: -1.65 ms

Below is generated by plot.py at 2017-11-30 16:33:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.74 Mbit/s

95th percentile per-packet one-way delay: 19.254 ms

Loss rate: 0.14%

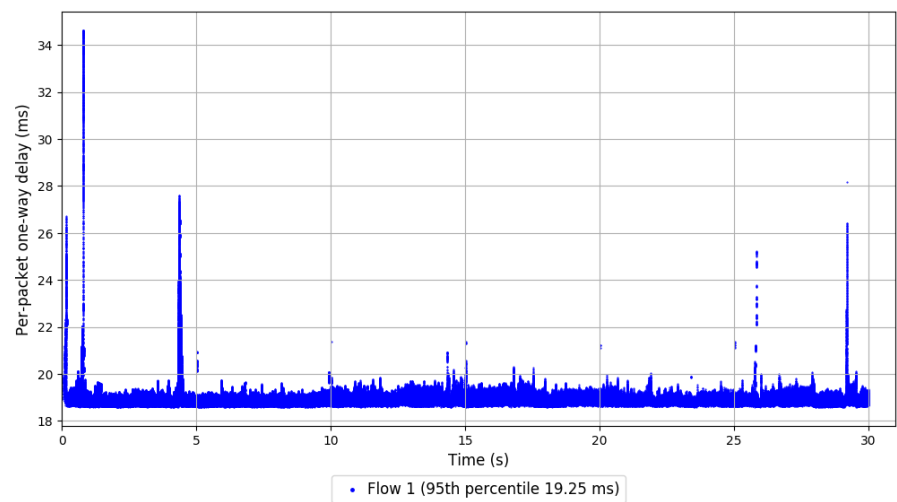
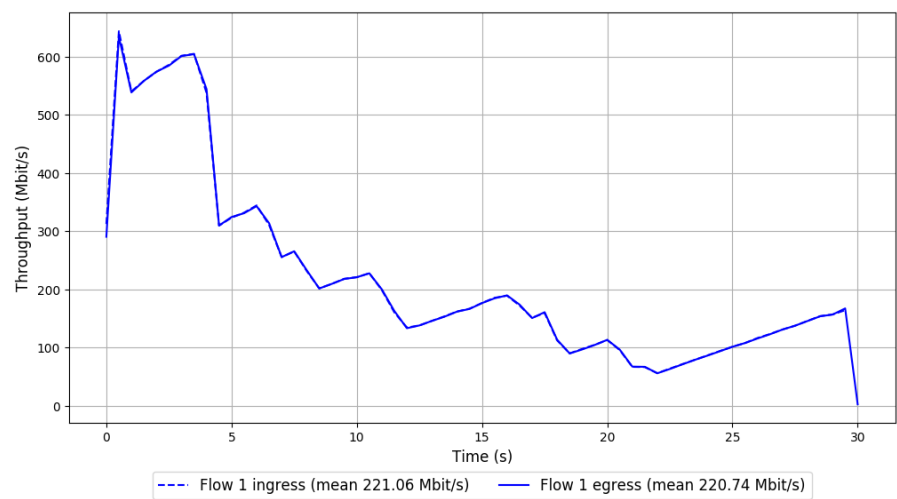
-- Flow 1:

Average throughput: 220.74 Mbit/s

95th percentile per-packet one-way delay: 19.254 ms

Loss rate: 0.14%

Run 5: Report of TCP Cubic — Data Link

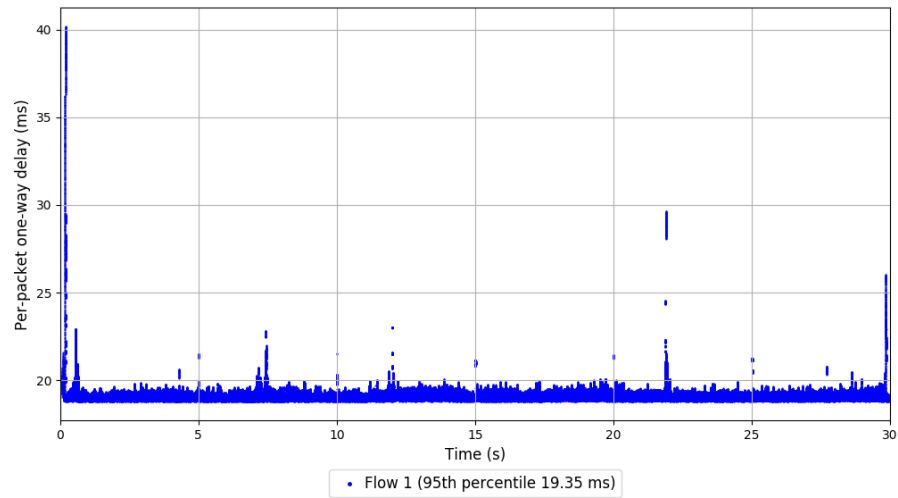
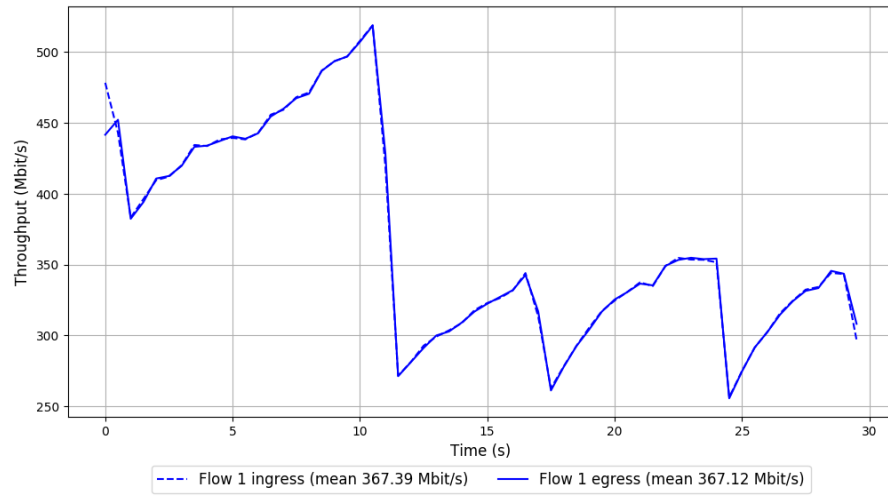


Run 6: Statistics of TCP Cubic

Start at: 2017-11-30 13:47:00
End at: 2017-11-30 13:47:30
Local clock offset: 0.072 ms
Remote clock offset: -1.432 ms

Below is generated by plot.py at 2017-11-30 16:33:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 367.12 Mbit/s
95th percentile per-packet one-way delay: 19.353 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 367.12 Mbit/s
95th percentile per-packet one-way delay: 19.353 ms
Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2017-11-30 14:05:54

End at: 2017-11-30 14:06:24

Local clock offset: 0.061 ms

Remote clock offset: -1.55 ms

Below is generated by plot.py at 2017-11-30 16:34:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 580.13 Mbit/s

95th percentile per-packet one-way delay: 21.002 ms

Loss rate: 0.04%

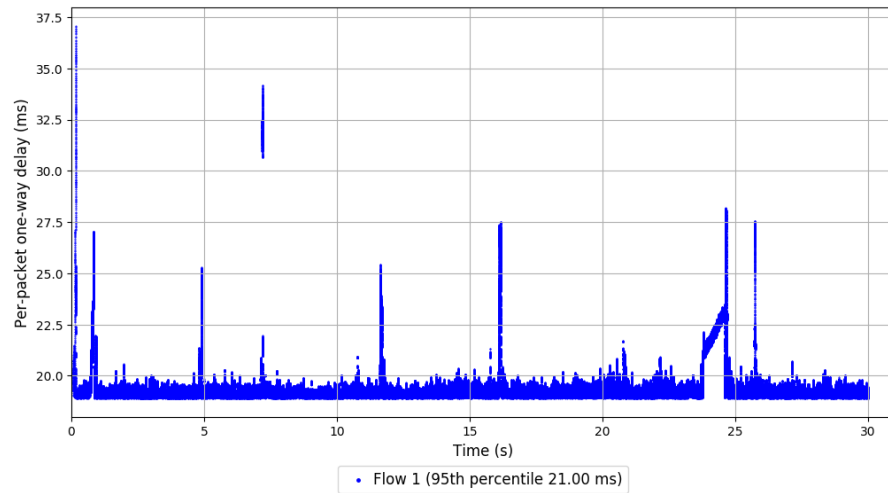
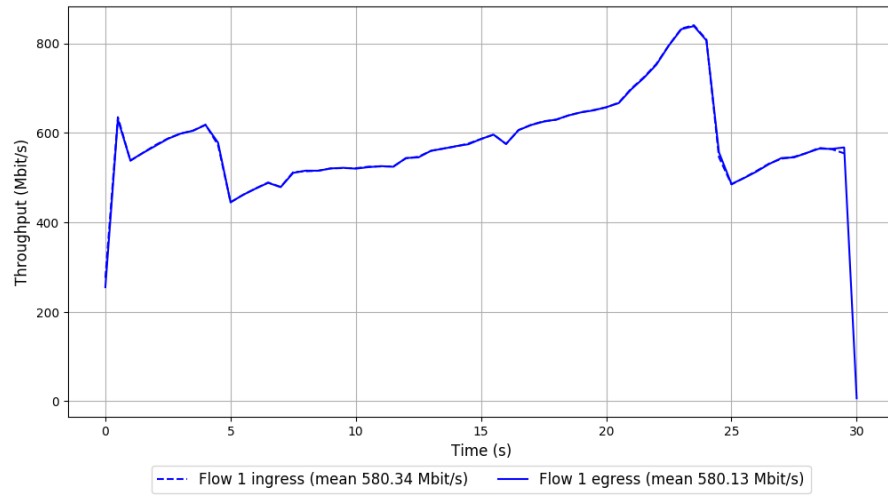
-- Flow 1:

Average throughput: 580.13 Mbit/s

95th percentile per-packet one-way delay: 21.002 ms

Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2017-11-30 14:24:49

End at: 2017-11-30 14:25:19

Local clock offset: 0.011 ms

Remote clock offset: -1.6 ms

Below is generated by plot.py at 2017-11-30 16:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.35 Mbit/s

95th percentile per-packet one-way delay: 19.242 ms

Loss rate: 0.08%

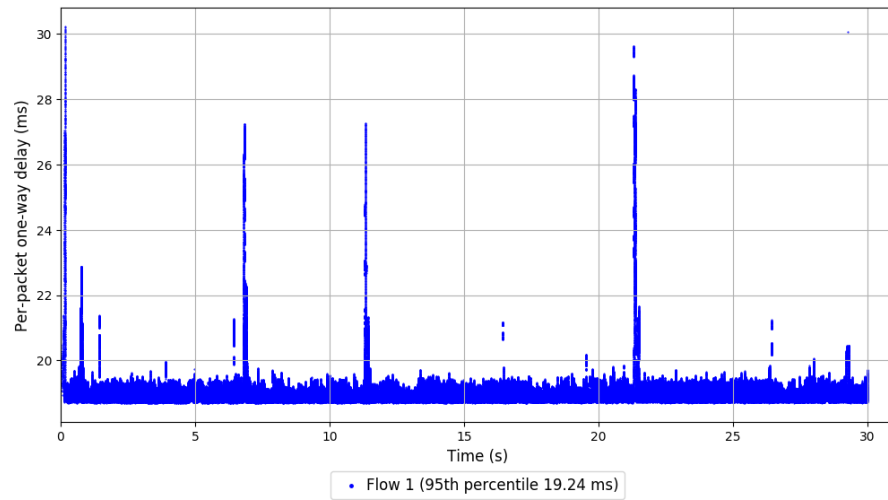
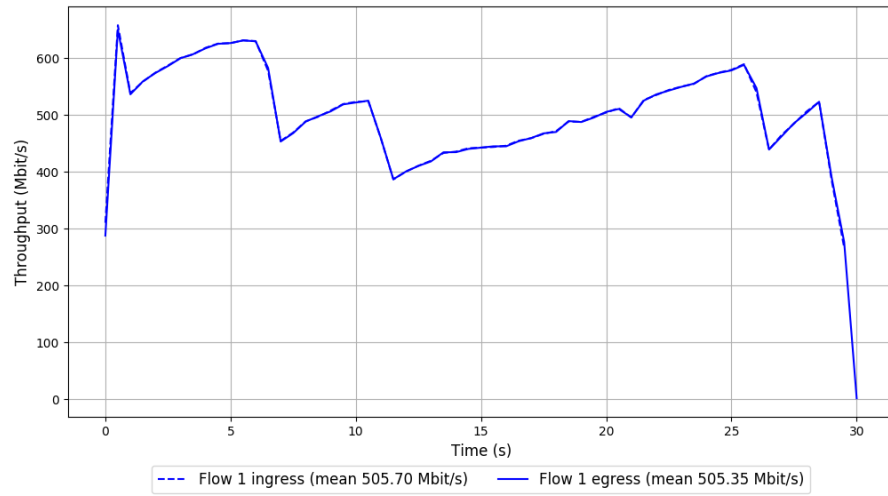
-- Flow 1:

Average throughput: 505.35 Mbit/s

95th percentile per-packet one-way delay: 19.242 ms

Loss rate: 0.08%

Run 8: Report of TCP Cubic — Data Link

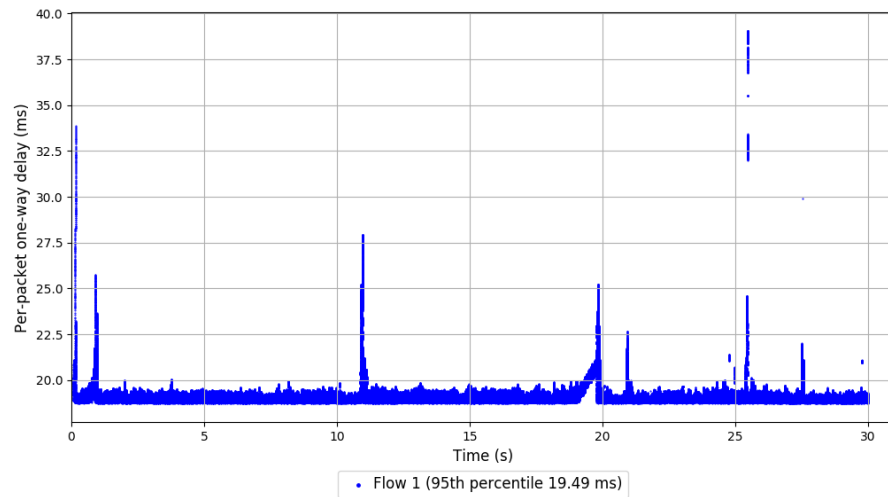
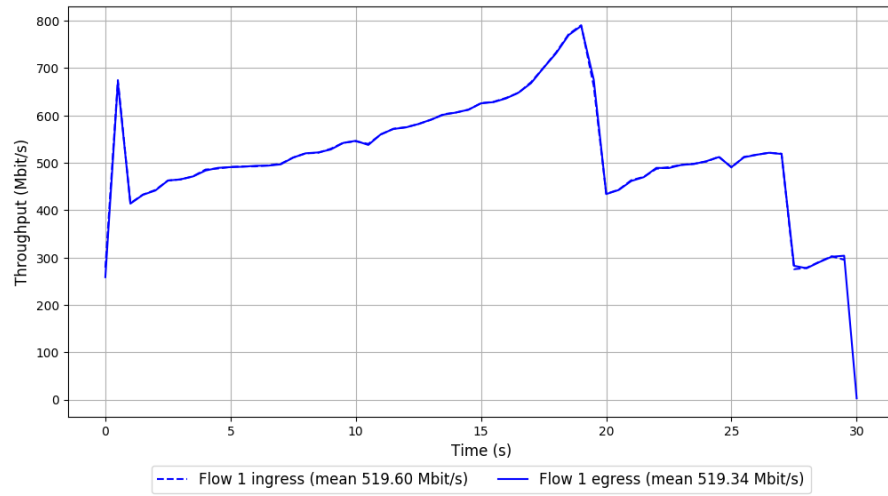


Run 9: Statistics of TCP Cubic

Start at: 2017-11-30 14:43:24
End at: 2017-11-30 14:43:54
Local clock offset: -0.067 ms
Remote clock offset: -1.882 ms

Below is generated by plot.py at 2017-11-30 16:36:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 519.34 Mbit/s
95th percentile per-packet one-way delay: 19.489 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 519.34 Mbit/s
95th percentile per-packet one-way delay: 19.489 ms
Loss rate: 0.05%

Run 9: Report of TCP Cubic — Data Link

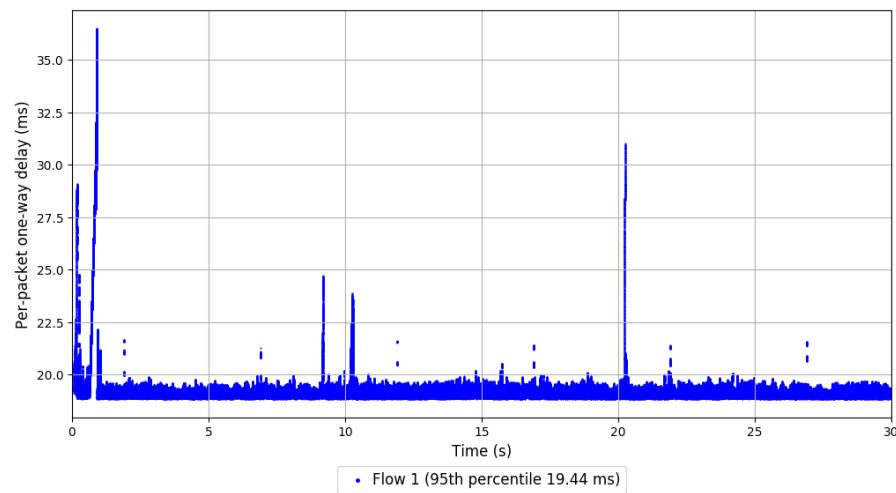
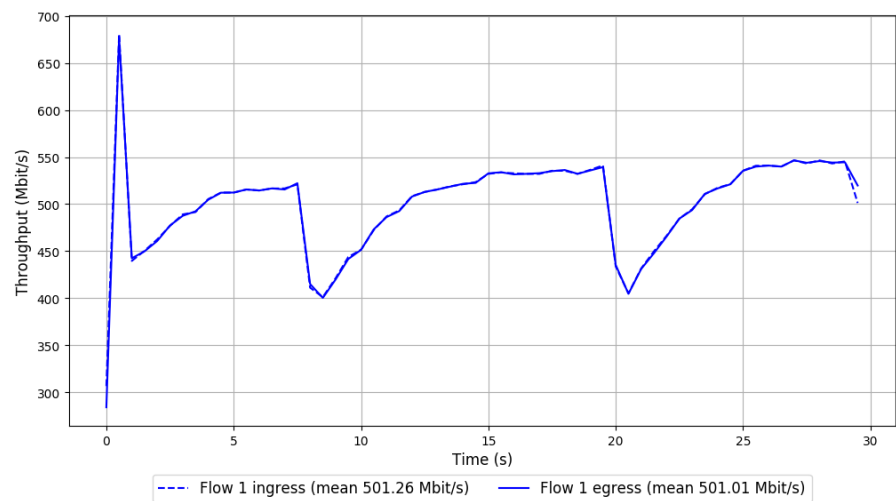


Run 10: Statistics of TCP Cubic

Start at: 2017-11-30 15:02:05
End at: 2017-11-30 15:02:35
Local clock offset: -0.027 ms
Remote clock offset: -1.817 ms

Below is generated by plot.py at 2017-11-30 16:37:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 501.01 Mbit/s
95th percentile per-packet one-way delay: 19.443 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 501.01 Mbit/s
95th percentile per-packet one-way delay: 19.443 ms
Loss rate: 0.05%

Run 10: Report of TCP Cubic — Data Link

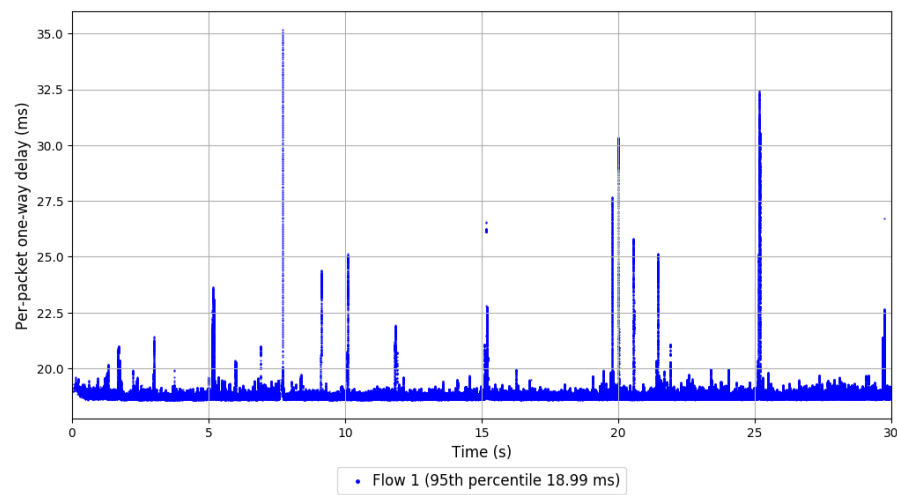
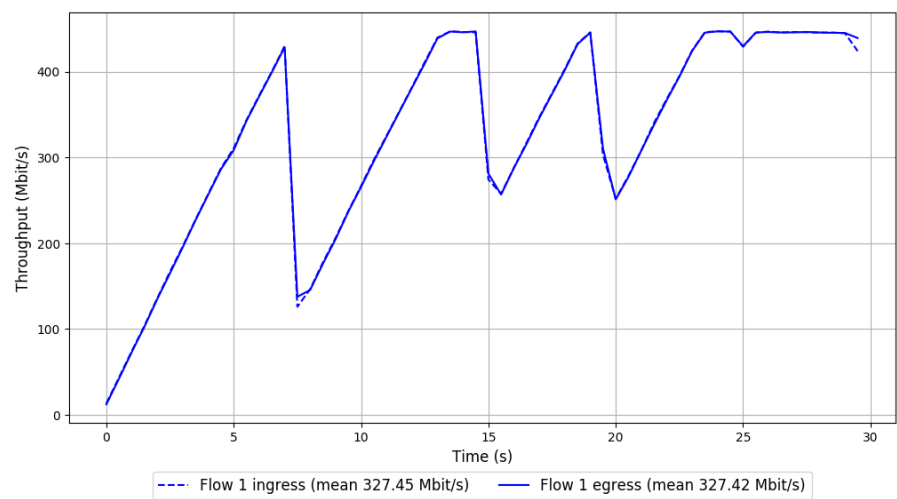


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-30 11:59:16
End at: 2017-11-30 11:59:46
Local clock offset: 0.025 ms
Remote clock offset: -1.306 ms

# Below is generated by plot.py at 2017-11-30 16:37:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 327.42 Mbit/s
95th percentile per-packet one-way delay: 18.993 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 327.42 Mbit/s
95th percentile per-packet one-way delay: 18.993 ms
Loss rate: 0.01%
```


Run 1: Report of LEDBAT — Data Link

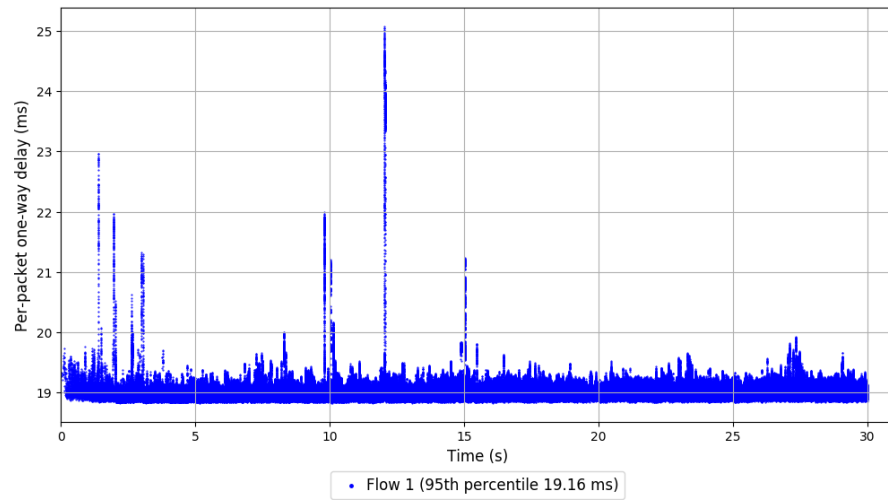
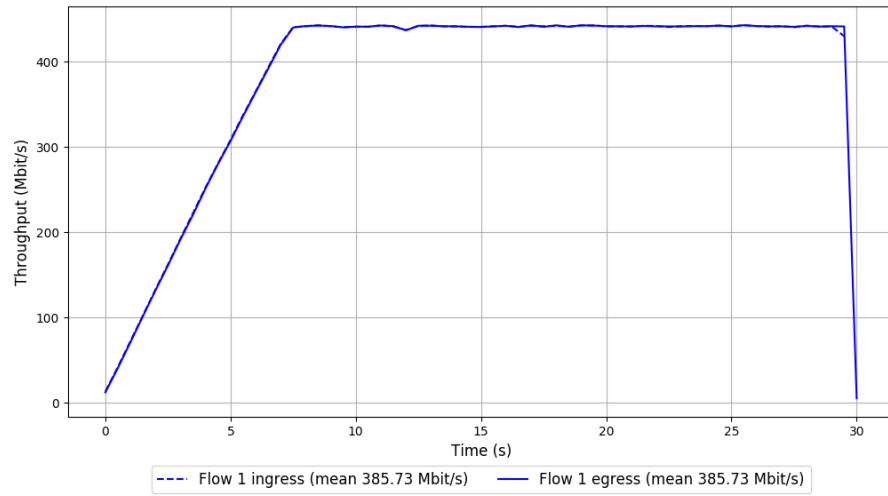


Run 2: Statistics of LEDBAT

Start at: 2017-11-30 12:17:58
End at: 2017-11-30 12:18:28
Local clock offset: 0.07 ms
Remote clock offset: -1.766 ms

Below is generated by plot.py at 2017-11-30 16:37:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.73 Mbit/s
95th percentile per-packet one-way delay: 19.161 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 385.73 Mbit/s
95th percentile per-packet one-way delay: 19.161 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

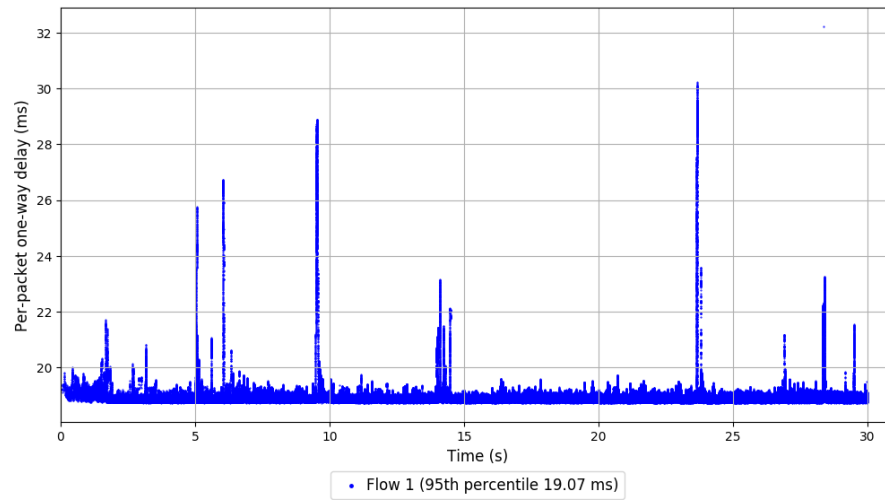
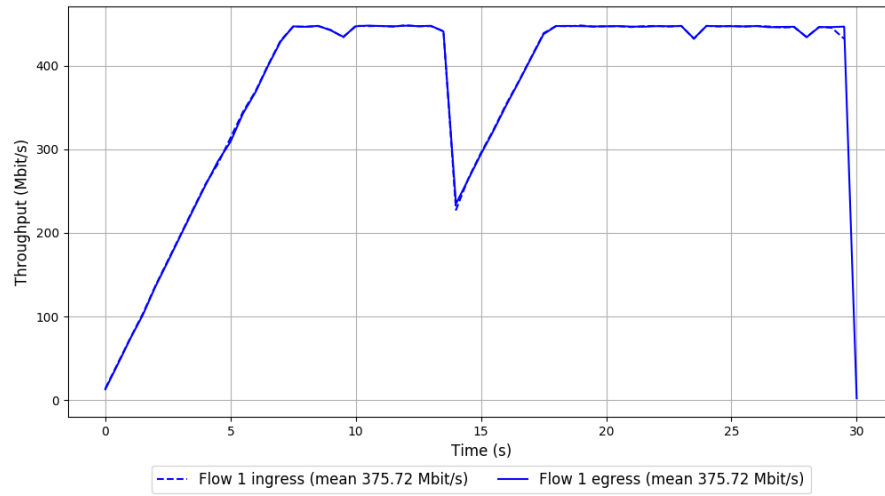


Run 3: Statistics of LEDBAT

Start at: 2017-11-30 12:36:35
End at: 2017-11-30 12:37:05
Local clock offset: -0.005 ms
Remote clock offset: -1.803 ms

Below is generated by plot.py at 2017-11-30 16:38:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 375.72 Mbit/s
95th percentile per-packet one-way delay: 19.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 375.72 Mbit/s
95th percentile per-packet one-way delay: 19.065 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

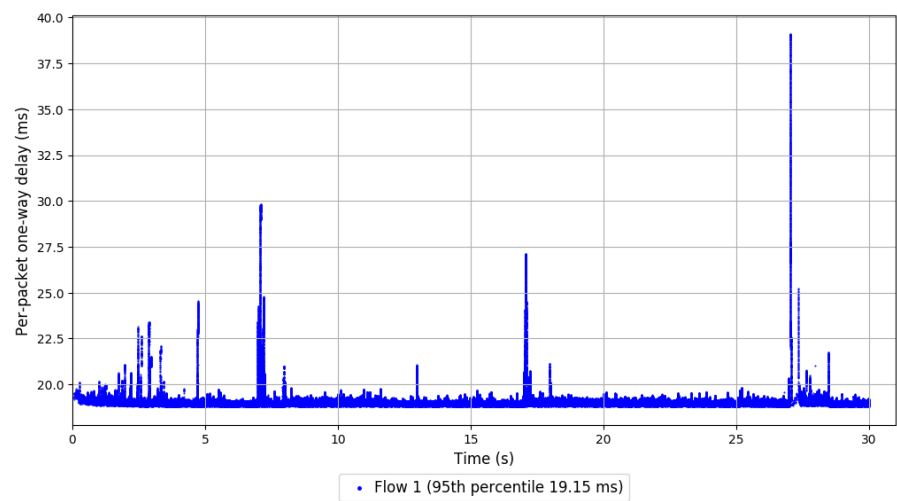
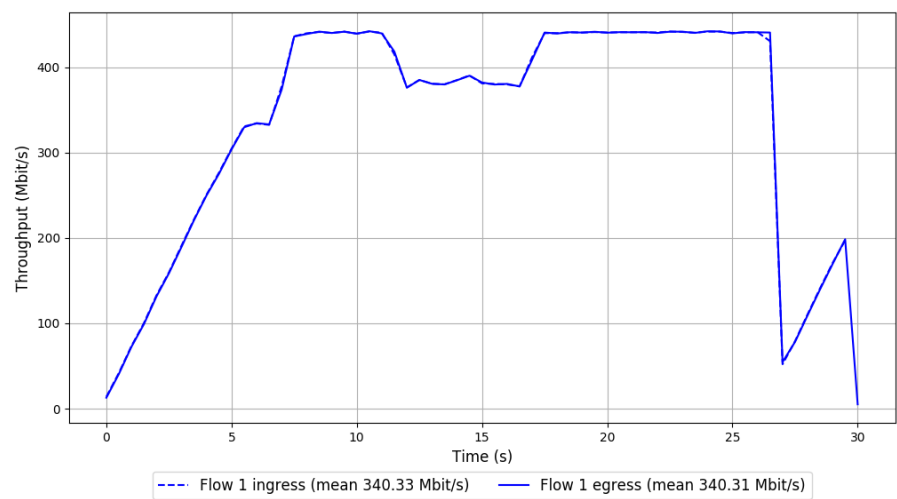


Run 4: Statistics of LEDBAT

Start at: 2017-11-30 12:55:32
End at: 2017-11-30 12:56:02
Local clock offset: 0.109 ms
Remote clock offset: -2.019 ms

Below is generated by plot.py at 2017-11-30 16:38:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.31 Mbit/s
95th percentile per-packet one-way delay: 19.147 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 340.31 Mbit/s
95th percentile per-packet one-way delay: 19.147 ms
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

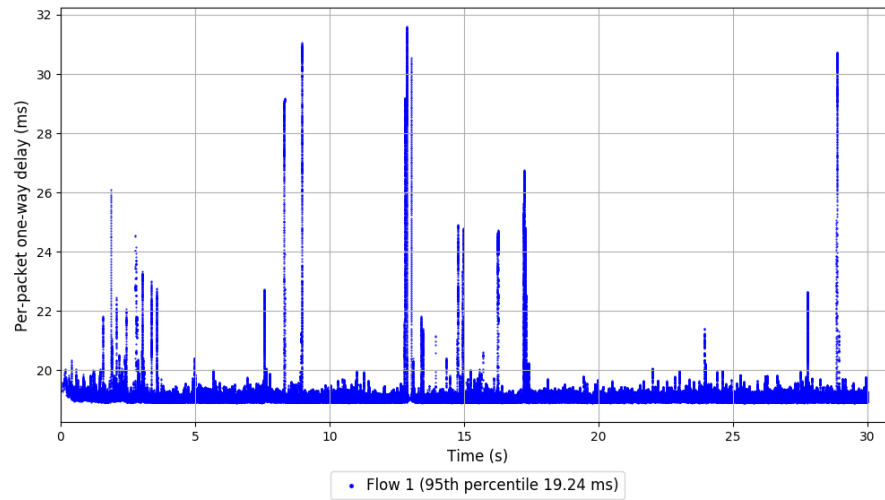
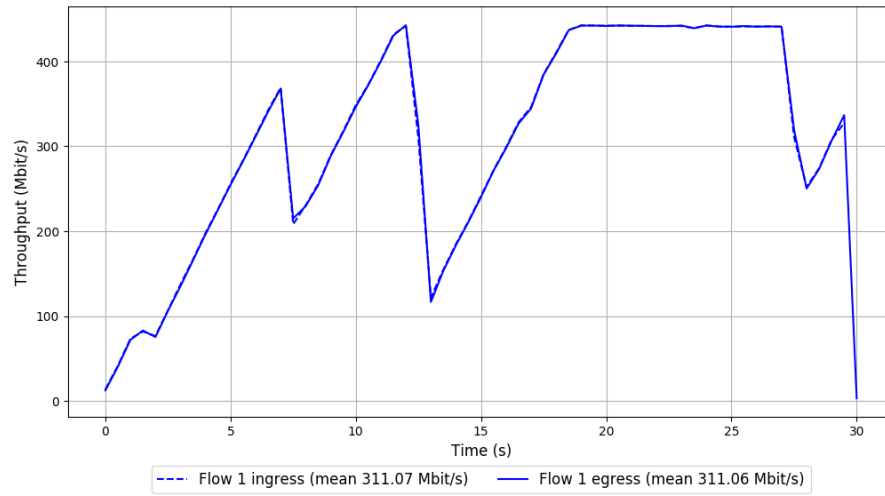


Run 5: Statistics of LEDBAT

Start at: 2017-11-30 13:14:11
End at: 2017-11-30 13:14:41
Local clock offset: -0.008 ms
Remote clock offset: -1.746 ms

Below is generated by plot.py at 2017-11-30 16:39:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 311.06 Mbit/s
95th percentile per-packet one-way delay: 19.244 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 311.06 Mbit/s
95th percentile per-packet one-way delay: 19.244 ms
Loss rate: 0.01%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2017-11-30 13:32:43

End at: 2017-11-30 13:33:13

Local clock offset: 0.047 ms

Remote clock offset: -1.55 ms

Below is generated by plot.py at 2017-11-30 16:39:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.23 Mbit/s

95th percentile per-packet one-way delay: 19.080 ms

Loss rate: 0.01%

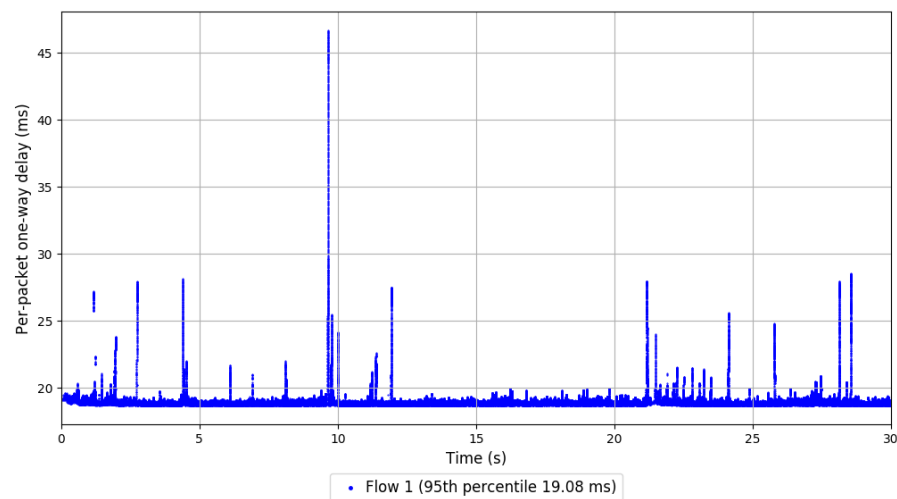
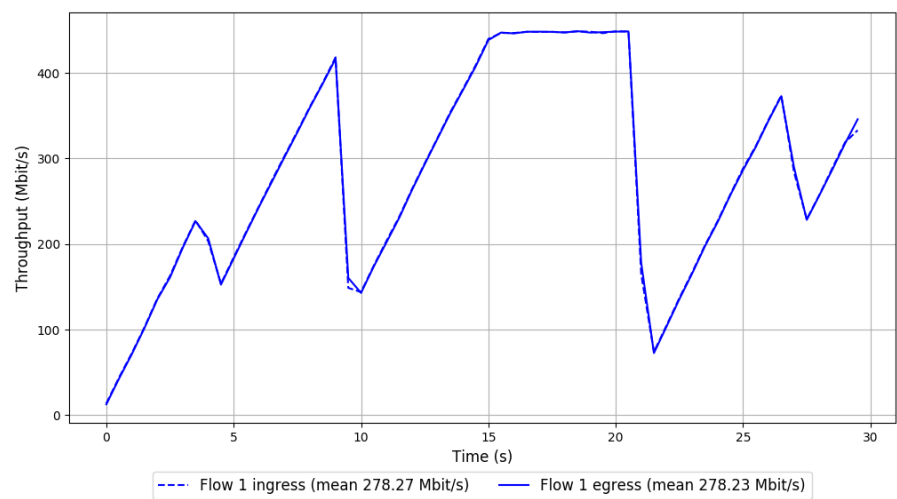
-- Flow 1:

Average throughput: 278.23 Mbit/s

95th percentile per-packet one-way delay: 19.080 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link

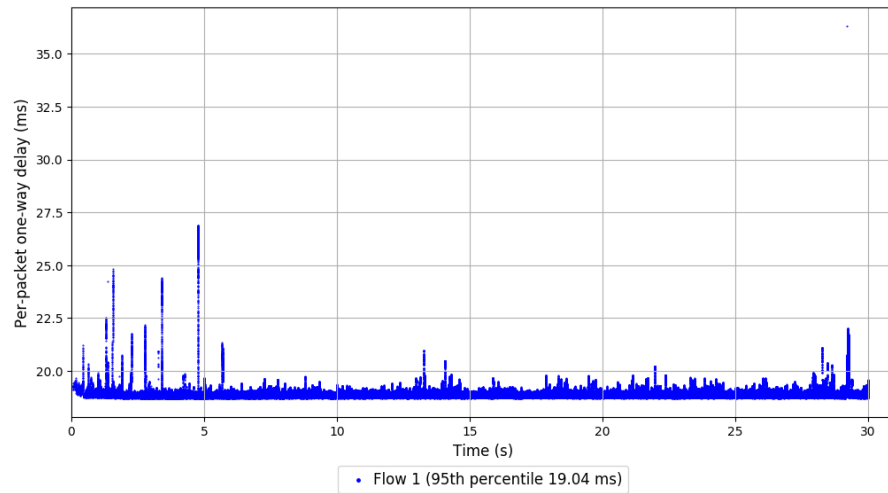
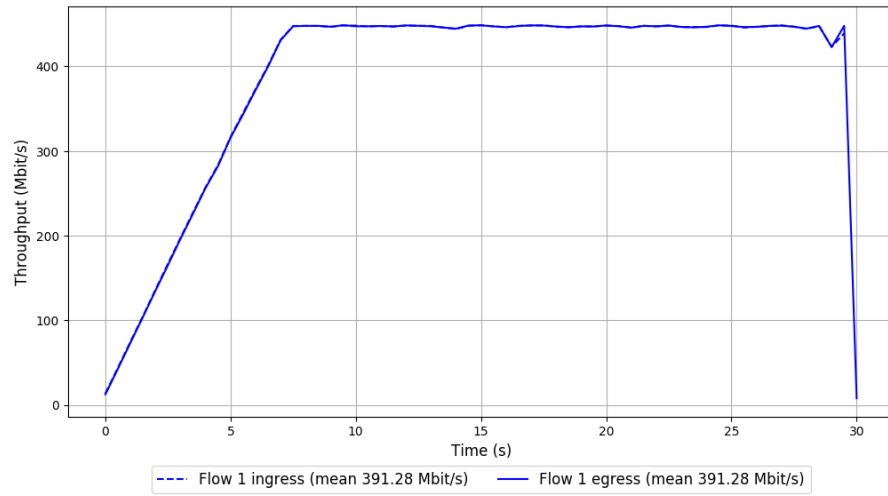


Run 7: Statistics of LEDBAT

Start at: 2017-11-30 13:51:18
End at: 2017-11-30 13:51:48
Local clock offset: 0.079 ms
Remote clock offset: -1.542 ms

Below is generated by plot.py at 2017-11-30 16:41:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 391.28 Mbit/s
95th percentile per-packet one-way delay: 19.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 391.28 Mbit/s
95th percentile per-packet one-way delay: 19.038 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

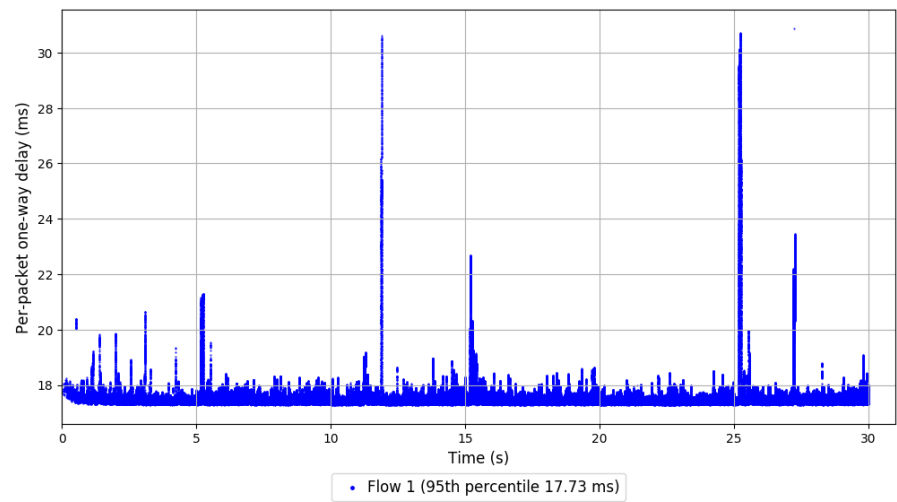
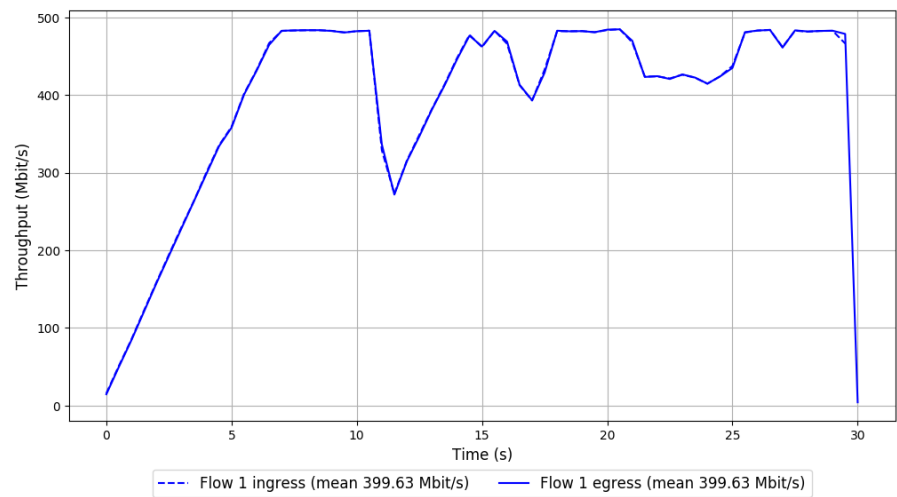


Run 8: Statistics of LEDBAT

Start at: 2017-11-30 14:10:20
End at: 2017-11-30 14:10:50
Local clock offset: 0.033 ms
Remote clock offset: -1.472 ms

Below is generated by plot.py at 2017-11-30 16:42:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 399.63 Mbit/s
95th percentile per-packet one-way delay: 17.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 399.63 Mbit/s
95th percentile per-packet one-way delay: 17.729 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2017-11-30 14:29:02

End at: 2017-11-30 14:29:32

Local clock offset: -0.031 ms

Remote clock offset: -1.69 ms

Below is generated by plot.py at 2017-11-30 16:42:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.24 Mbit/s

95th percentile per-packet one-way delay: 19.208 ms

Loss rate: 0.01%

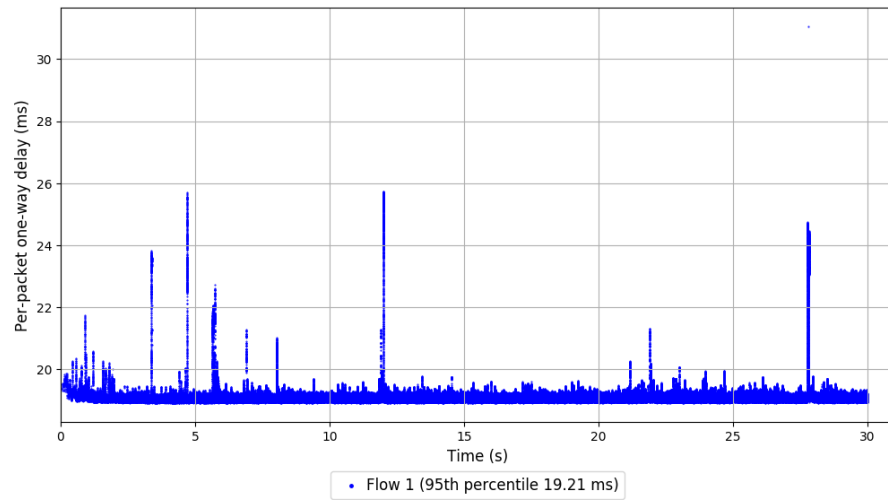
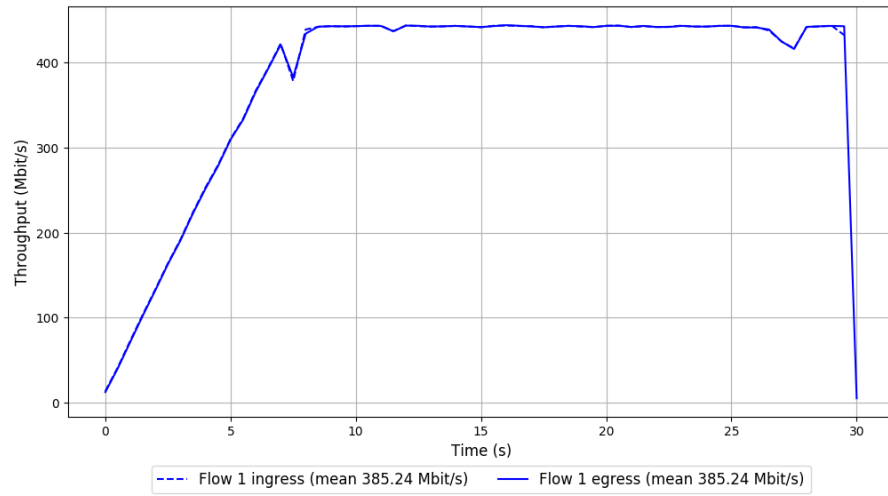
-- Flow 1:

Average throughput: 385.24 Mbit/s

95th percentile per-packet one-way delay: 19.208 ms

Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link

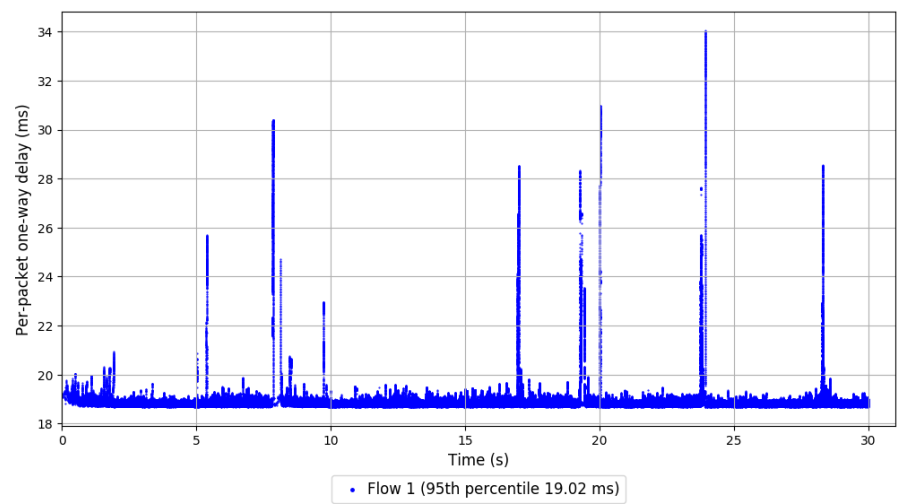
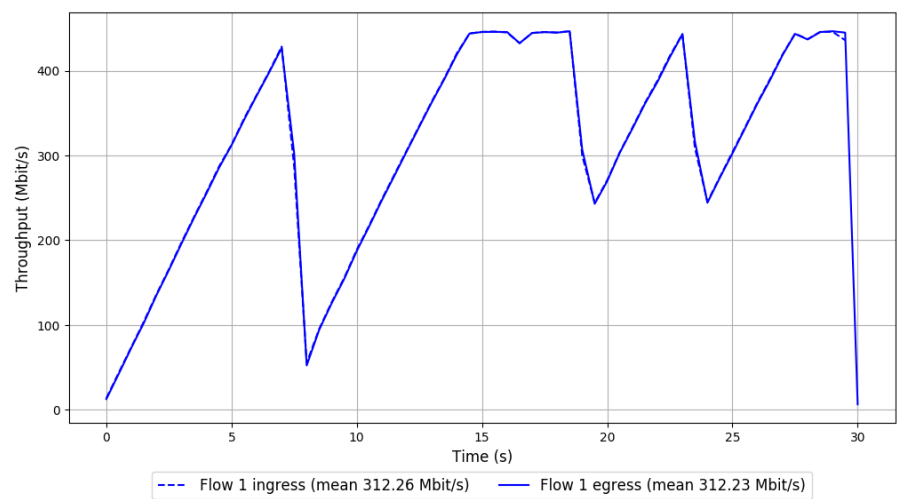


Run 10: Statistics of LEDBAT

Start at: 2017-11-30 14:47:42
End at: 2017-11-30 14:48:12
Local clock offset: -0.088 ms
Remote clock offset: -1.969 ms

Below is generated by plot.py at 2017-11-30 16:42:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 312.23 Mbit/s
95th percentile per-packet one-way delay: 19.019 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 312.23 Mbit/s
95th percentile per-packet one-way delay: 19.019 ms
Loss rate: 0.02%

Run 10: Report of LEDBAT — Data Link

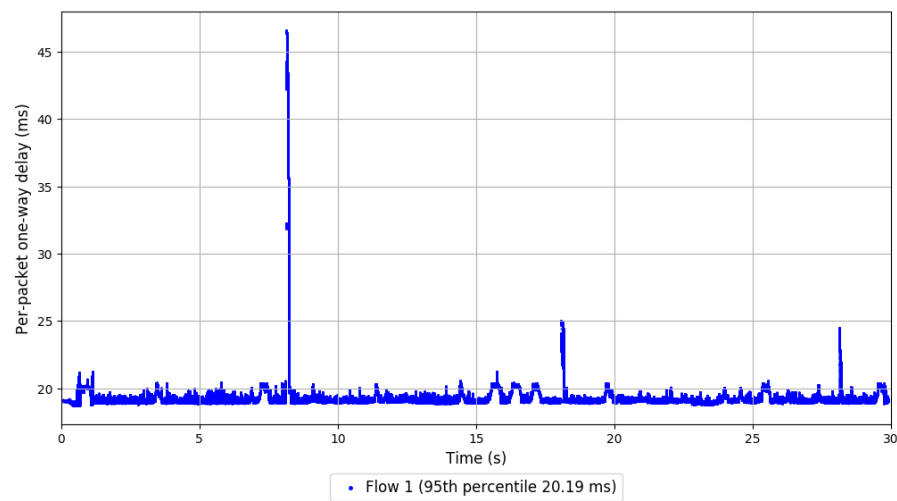
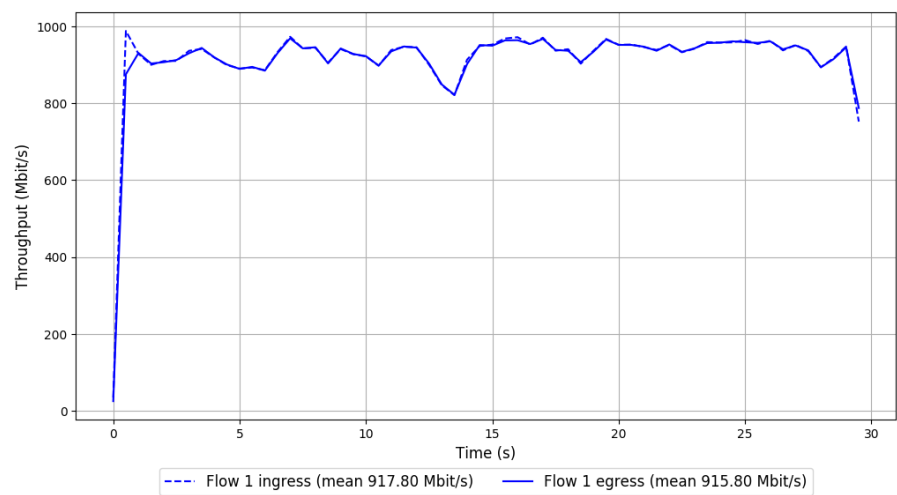


Run 1: Statistics of PCC

Start at: 2017-11-30 12:09:36
End at: 2017-11-30 12:10:06
Local clock offset: 0.047 ms
Remote clock offset: -1.476 ms

Below is generated by plot.py at 2017-11-30 16:50:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 915.80 Mbit/s
95th percentile per-packet one-way delay: 20.186 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 915.80 Mbit/s
95th percentile per-packet one-way delay: 20.186 ms
Loss rate: 0.22%

Run 1: Report of PCC — Data Link

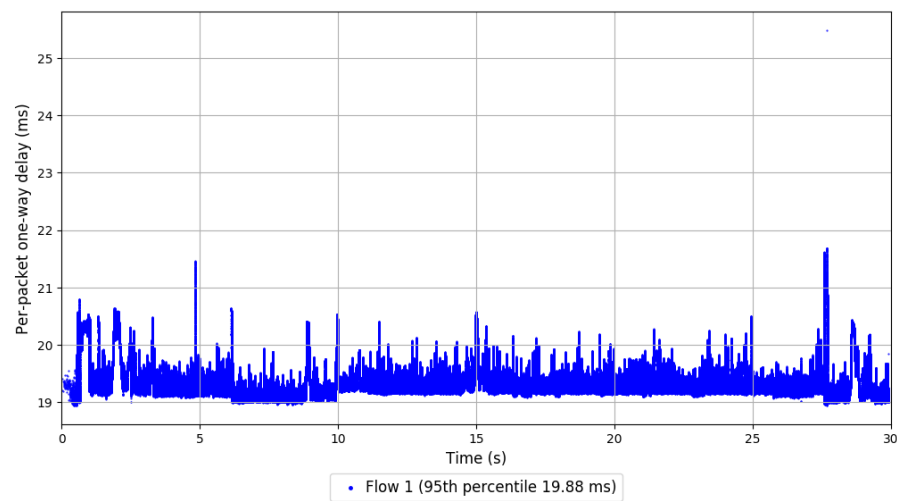
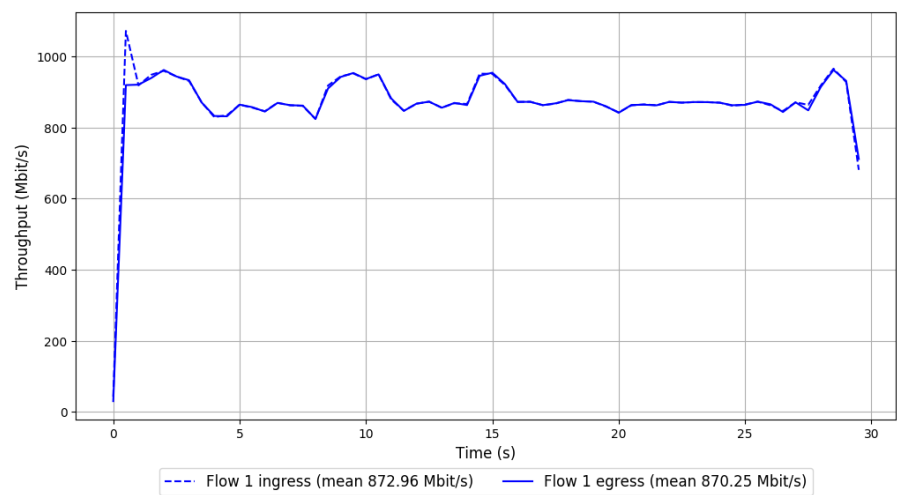


Run 2: Statistics of PCC

Start at: 2017-11-30 12:28:23
End at: 2017-11-30 12:28:53
Local clock offset: 0.01 ms
Remote clock offset: -1.795 ms

Below is generated by plot.py at 2017-11-30 16:50:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 870.25 Mbit/s
95th percentile per-packet one-way delay: 19.884 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 870.25 Mbit/s
95th percentile per-packet one-way delay: 19.884 ms
Loss rate: 0.31%

Run 2: Report of PCC — Data Link

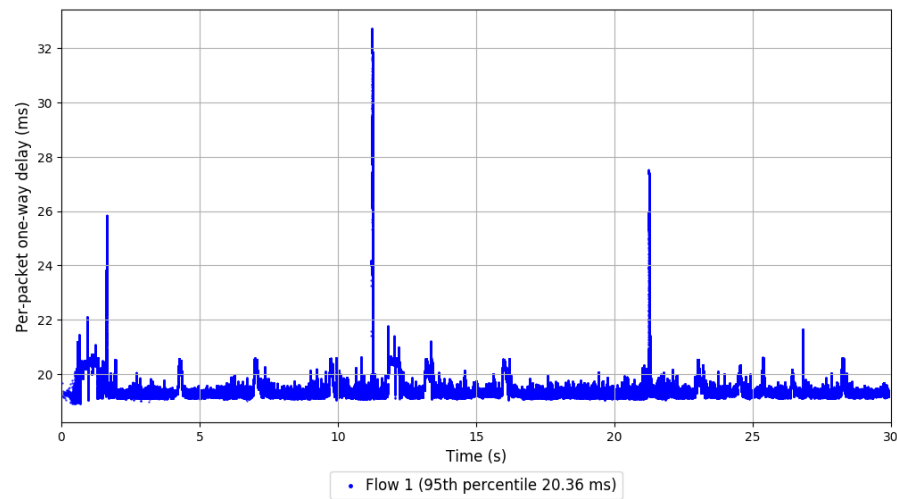
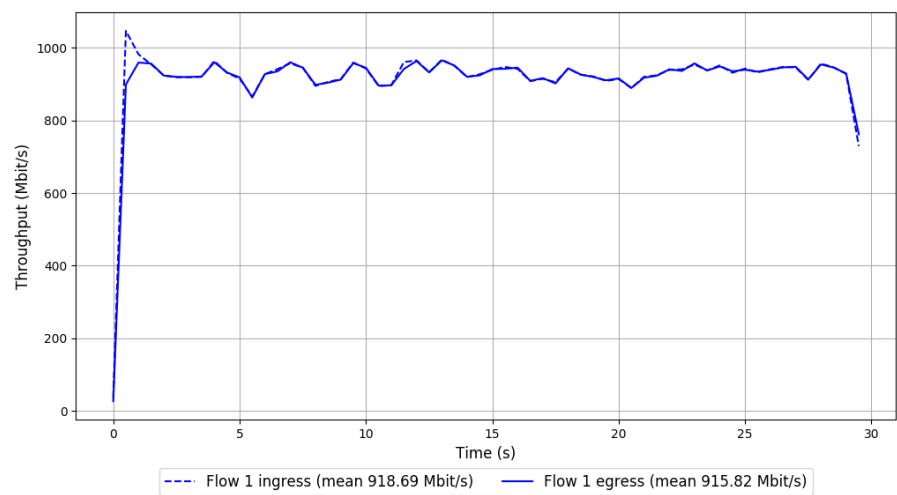


Run 3: Statistics of PCC

Start at: 2017-11-30 12:47:18
End at: 2017-11-30 12:47:48
Local clock offset: 0.079 ms
Remote clock offset: -1.833 ms

Below is generated by plot.py at 2017-11-30 16:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 915.82 Mbit/s
95th percentile per-packet one-way delay: 20.362 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 915.82 Mbit/s
95th percentile per-packet one-way delay: 20.362 ms
Loss rate: 0.32%

Run 3: Report of PCC — Data Link

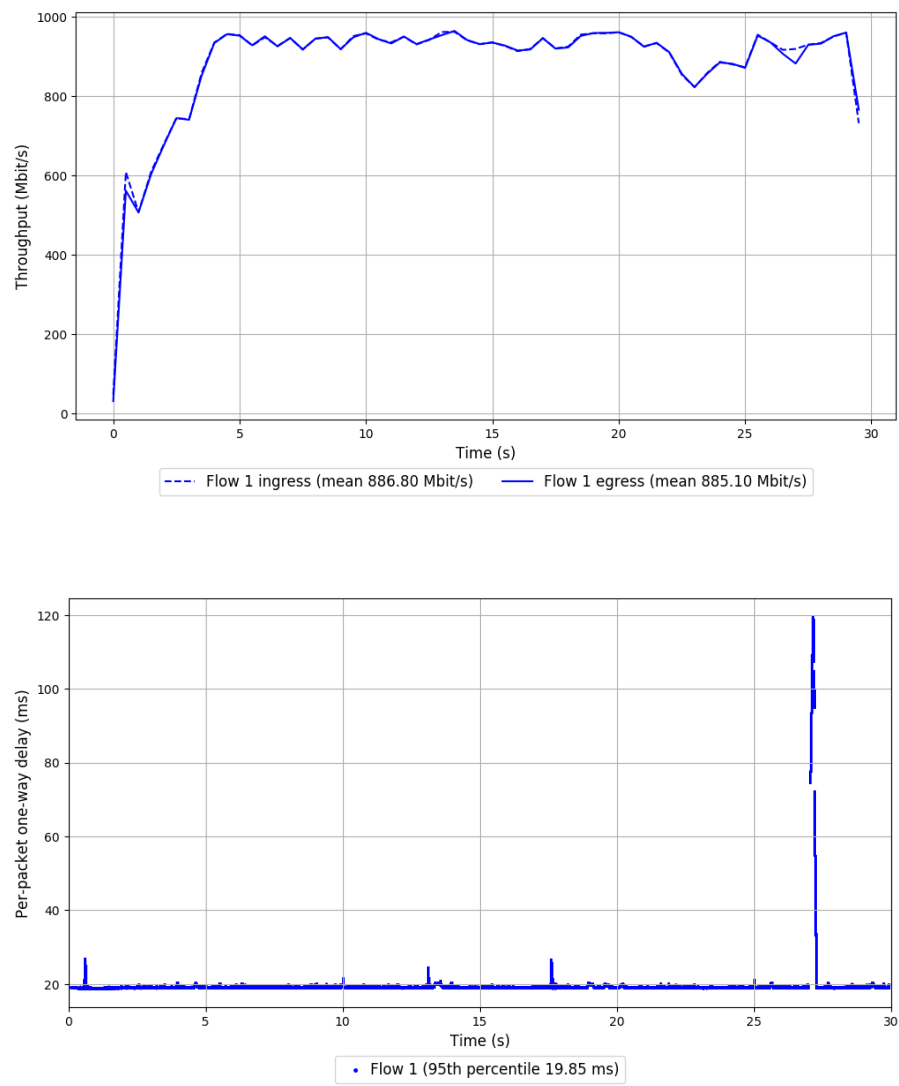


Run 4: Statistics of PCC

Start at: 2017-11-30 13:05:51
End at: 2017-11-30 13:06:21
Local clock offset: 0.03 ms
Remote clock offset: -1.809 ms

Below is generated by plot.py at 2017-11-30 16:52:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 885.10 Mbit/s
95th percentile per-packet one-way delay: 19.853 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 885.10 Mbit/s
95th percentile per-packet one-way delay: 19.853 ms
Loss rate: 0.20%

Run 4: Report of PCC — Data Link

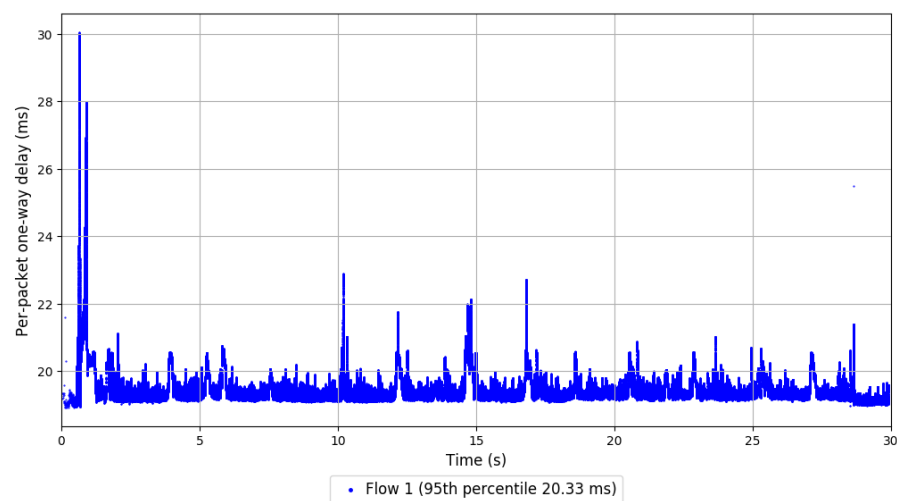
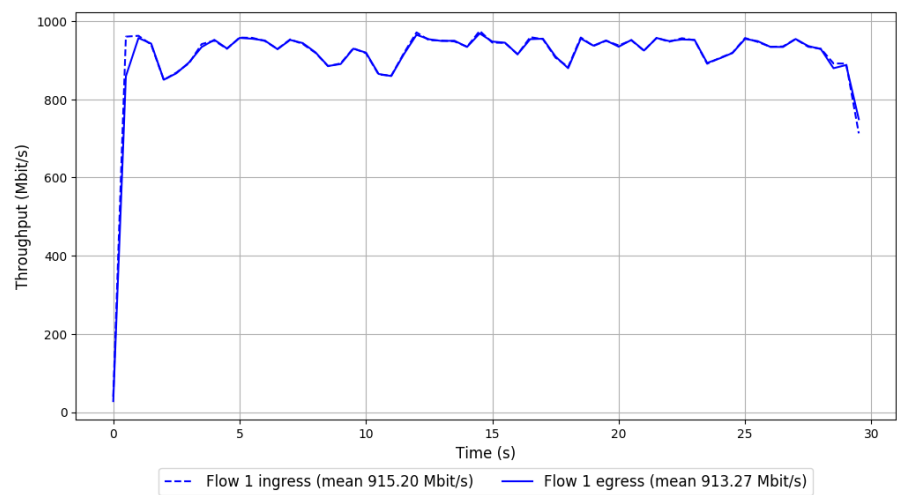


Run 5: Statistics of PCC

Start at: 2017-11-30 13:24:44
End at: 2017-11-30 13:25:14
Local clock offset: 0.01 ms
Remote clock offset: -1.631 ms

Below is generated by plot.py at 2017-11-30 16:54:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 913.27 Mbit/s
95th percentile per-packet one-way delay: 20.330 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 913.27 Mbit/s
95th percentile per-packet one-way delay: 20.330 ms
Loss rate: 0.22%

Run 5: Report of PCC — Data Link

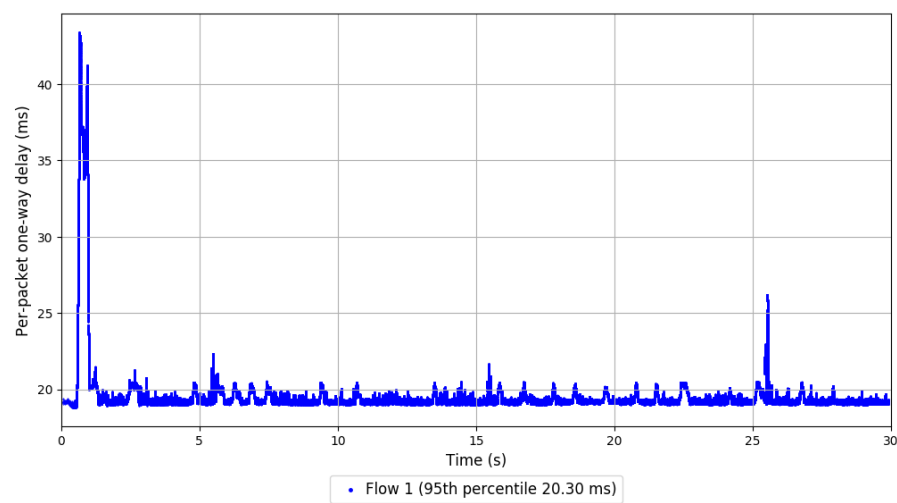
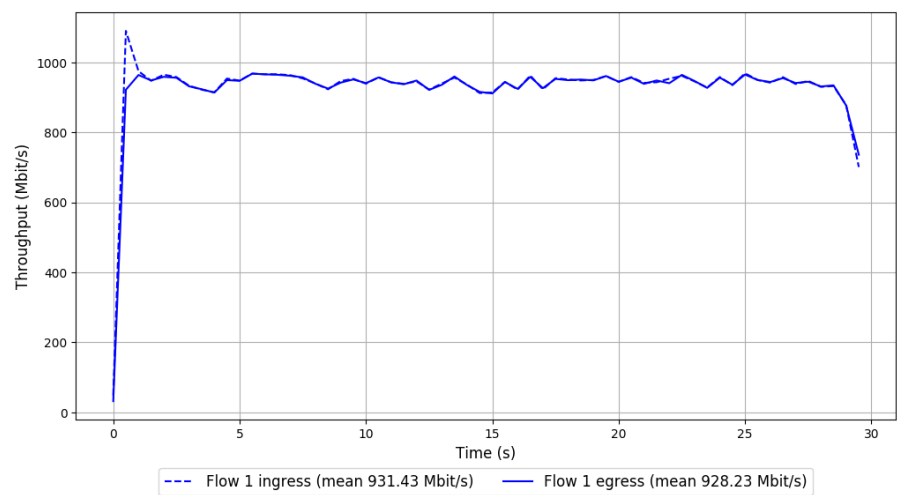


Run 6: Statistics of PCC

Start at: 2017-11-30 13:42:58
End at: 2017-11-30 13:43:28
Local clock offset: 0.145 ms
Remote clock offset: -1.438 ms

Below is generated by plot.py at 2017-11-30 16:55:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 928.23 Mbit/s
95th percentile per-packet one-way delay: 20.299 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 928.23 Mbit/s
95th percentile per-packet one-way delay: 20.299 ms
Loss rate: 0.34%

Run 6: Report of PCC — Data Link

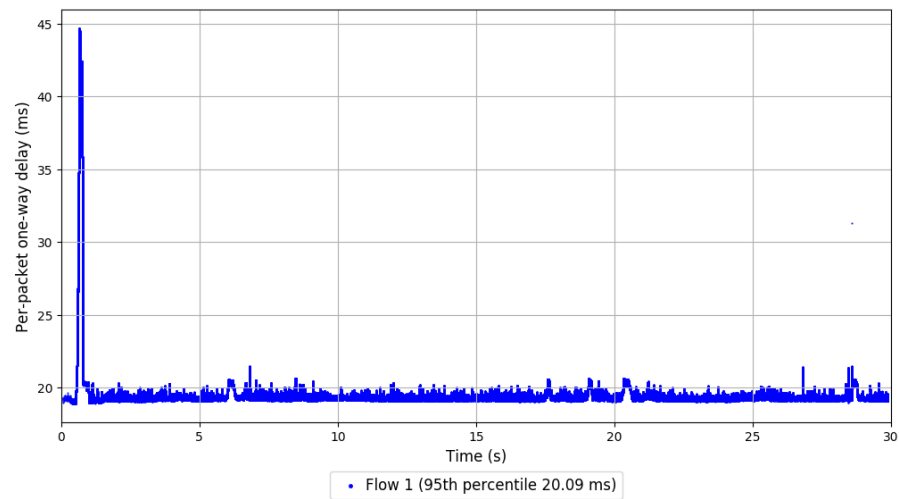
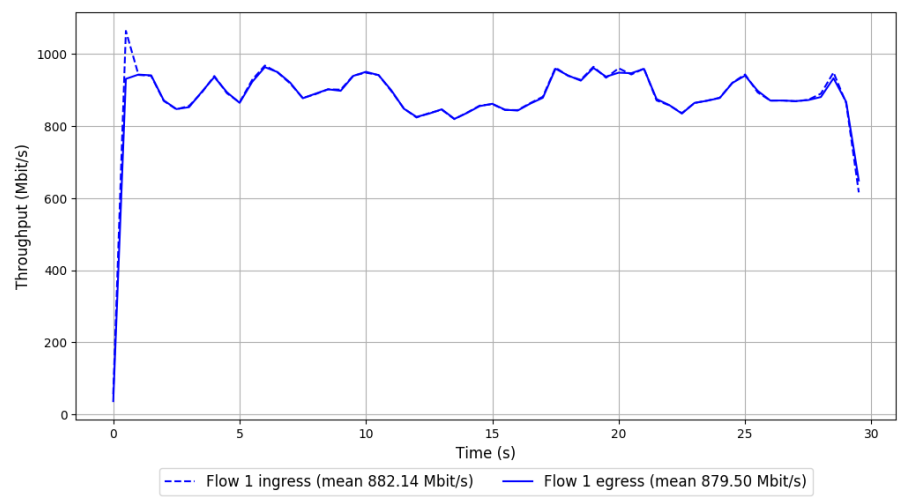


Run 7: Statistics of PCC

Start at: 2017-11-30 14:01:55
End at: 2017-11-30 14:02:25
Local clock offset: 0.077 ms
Remote clock offset: -1.574 ms

Below is generated by plot.py at 2017-11-30 16:55:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 879.50 Mbit/s
95th percentile per-packet one-way delay: 20.093 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 879.50 Mbit/s
95th percentile per-packet one-way delay: 20.093 ms
Loss rate: 0.31%

Run 7: Report of PCC — Data Link

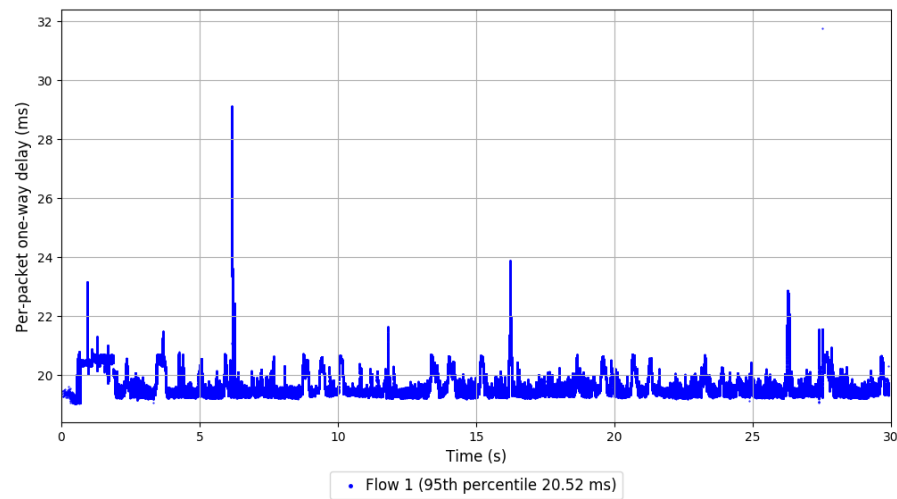
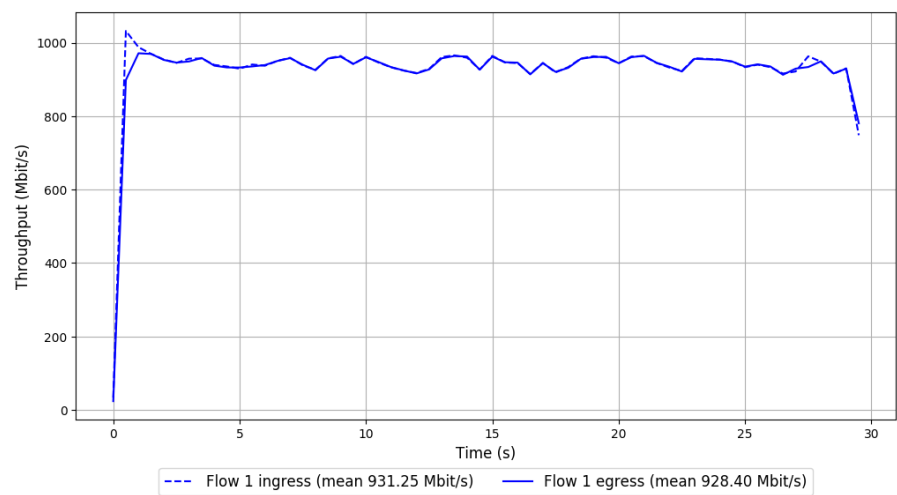


Run 8: Statistics of PCC

Start at: 2017-11-30 14:20:49
End at: 2017-11-30 14:21:19
Local clock offset: 0.017 ms
Remote clock offset: -1.433 ms

Below is generated by plot.py at 2017-11-30 16:56:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 928.40 Mbit/s
95th percentile per-packet one-way delay: 20.523 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 928.40 Mbit/s
95th percentile per-packet one-way delay: 20.523 ms
Loss rate: 0.31%

Run 8: Report of PCC — Data Link

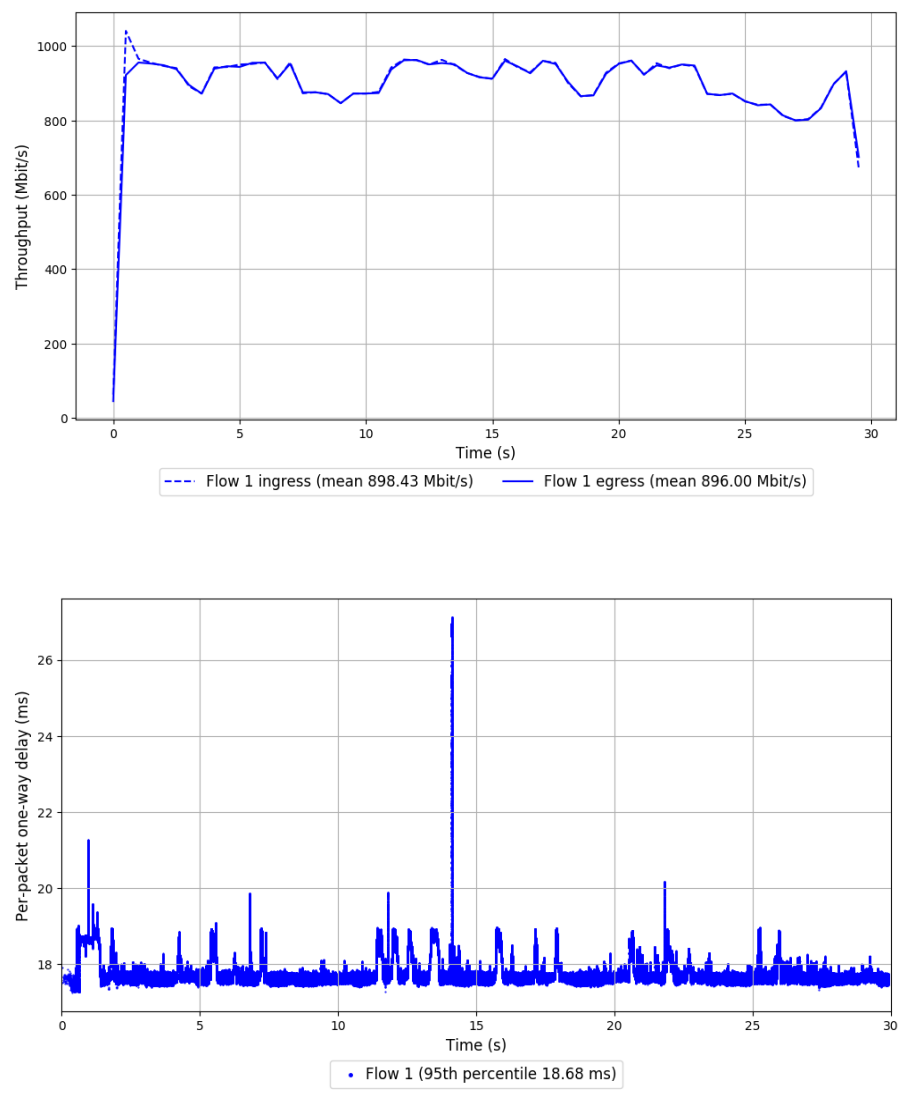


Run 9: Statistics of PCC

Start at: 2017-11-30 14:39:23
End at: 2017-11-30 14:39:53
Local clock offset: -0.077 ms
Remote clock offset: -1.871 ms

Below is generated by plot.py at 2017-11-30 17:04:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 896.00 Mbit/s
95th percentile per-packet one-way delay: 18.676 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 896.00 Mbit/s
95th percentile per-packet one-way delay: 18.676 ms
Loss rate: 0.27%

Run 9: Report of PCC — Data Link

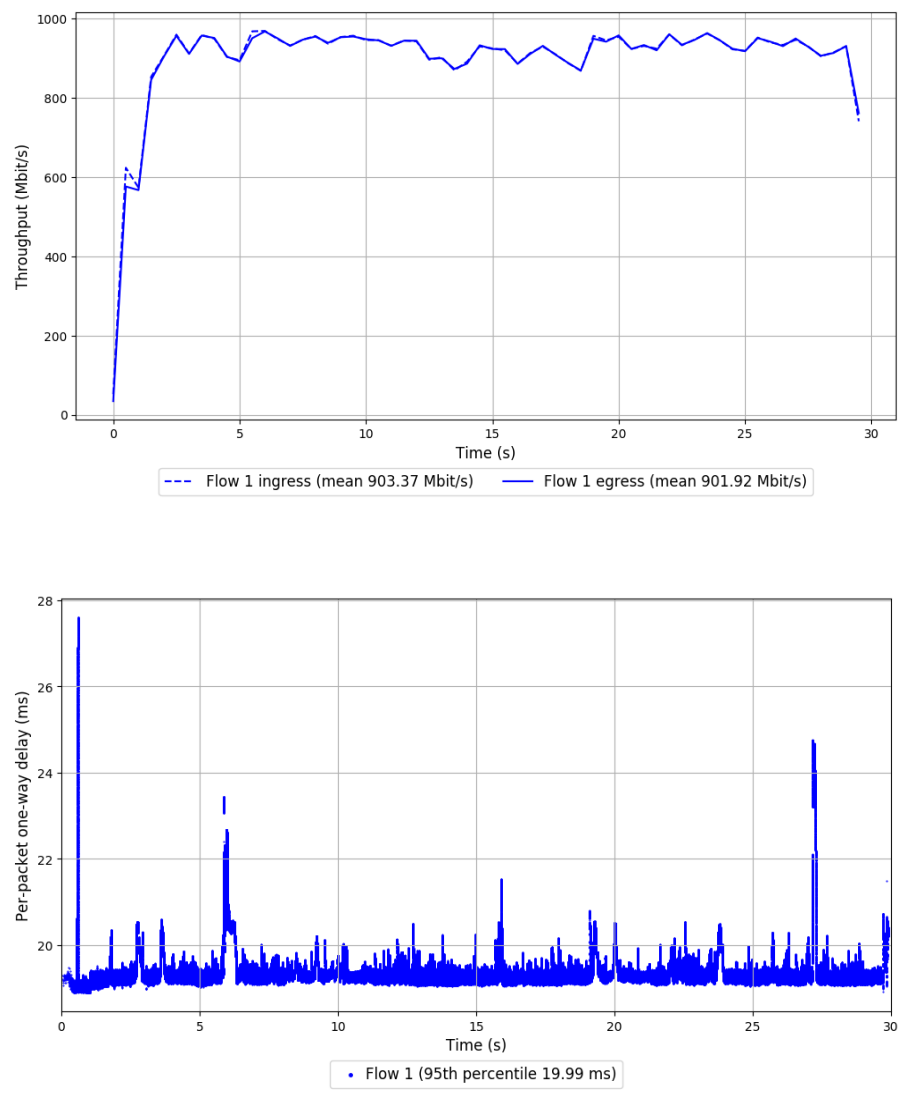


Run 10: Statistics of PCC

Start at: 2017-11-30 14:58:04
End at: 2017-11-30 14:58:34
Local clock offset: -0.019 ms
Remote clock offset: -1.796 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 901.92 Mbit/s
95th percentile per-packet one-way delay: 19.991 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 901.92 Mbit/s
95th percentile per-packet one-way delay: 19.991 ms
Loss rate: 0.16%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-11-30 12:12:23

End at: 2017-11-30 12:12:53

Local clock offset: -0.042 ms

Remote clock offset: -1.656 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.00%

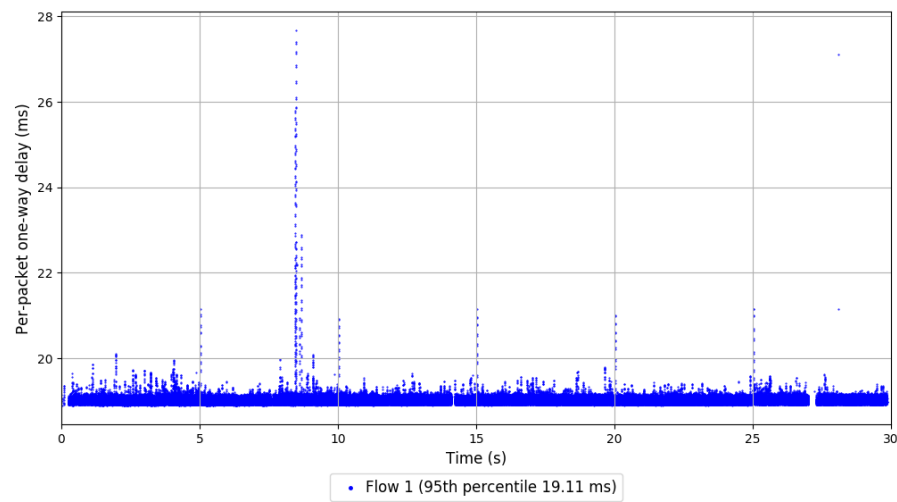
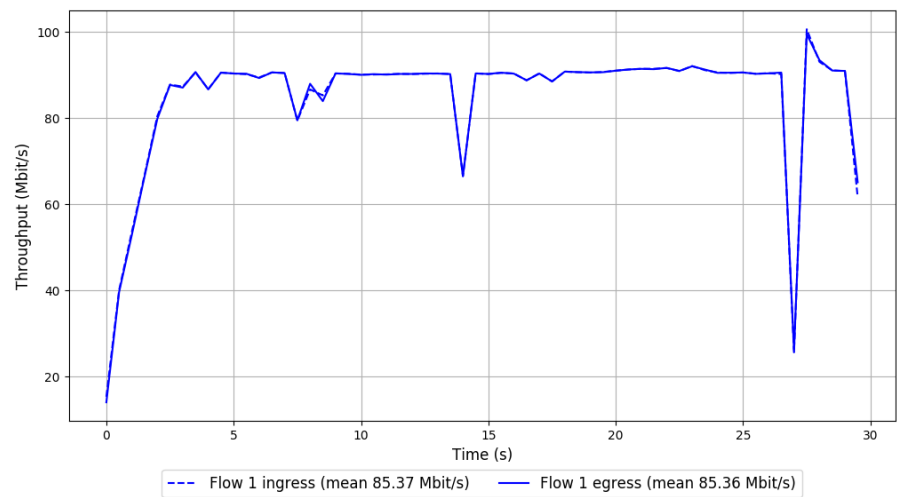
-- Flow 1:

Average throughput: 85.36 Mbit/s

95th percentile per-packet one-way delay: 19.114 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-30 12:31:09

End at: 2017-11-30 12:31:39

Local clock offset: 0.089 ms

Remote clock offset: -1.803 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.00%

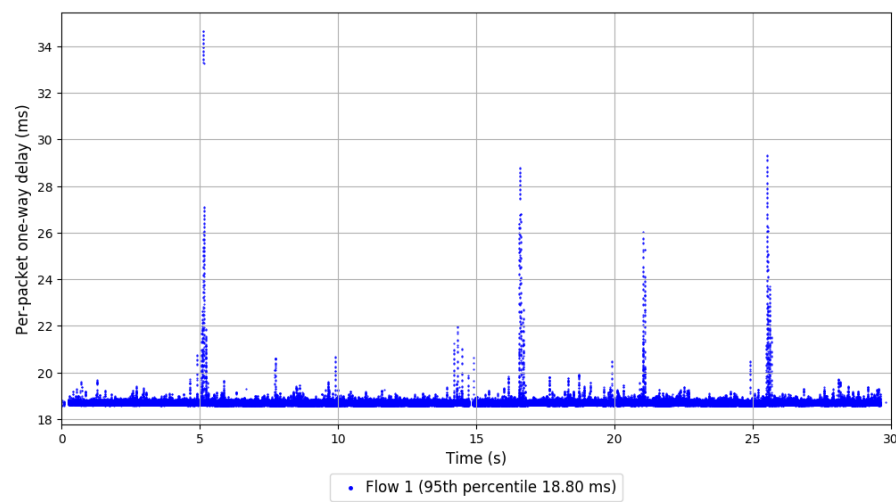
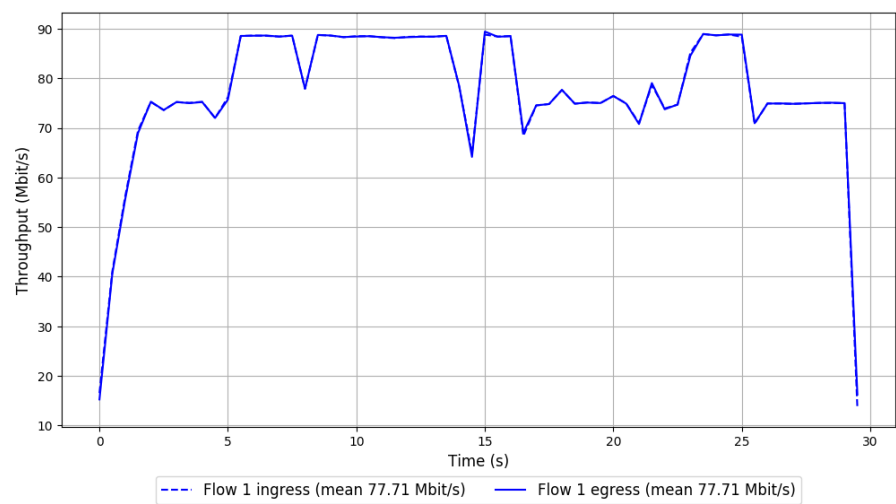
-- Flow 1:

Average throughput: 77.71 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-30 12:50:05

End at: 2017-11-30 12:50:35

Local clock offset: -0.002 ms

Remote clock offset: -2.009 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 19.090 ms

Loss rate: 0.00%

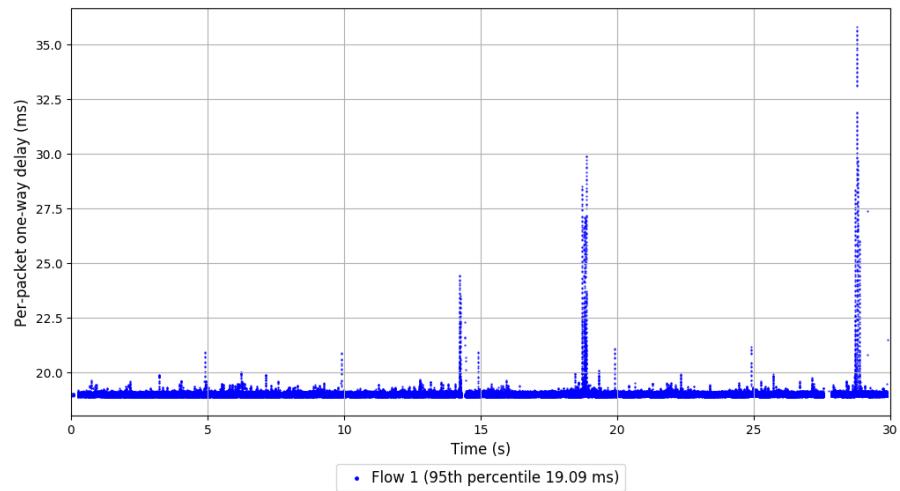
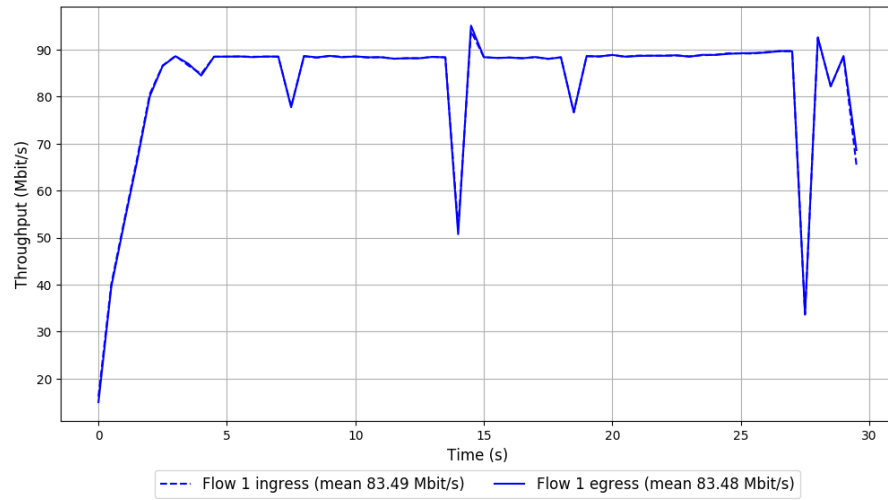
-- Flow 1:

Average throughput: 83.48 Mbit/s

95th percentile per-packet one-way delay: 19.090 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-30 13:08:38

End at: 2017-11-30 13:09:08

Local clock offset: 0.091 ms

Remote clock offset: -1.717 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 18.912 ms

Loss rate: 0.00%

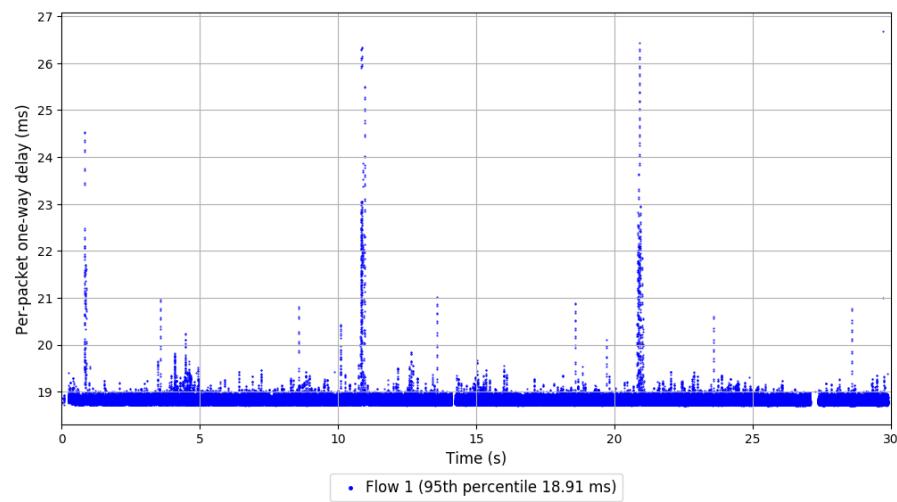
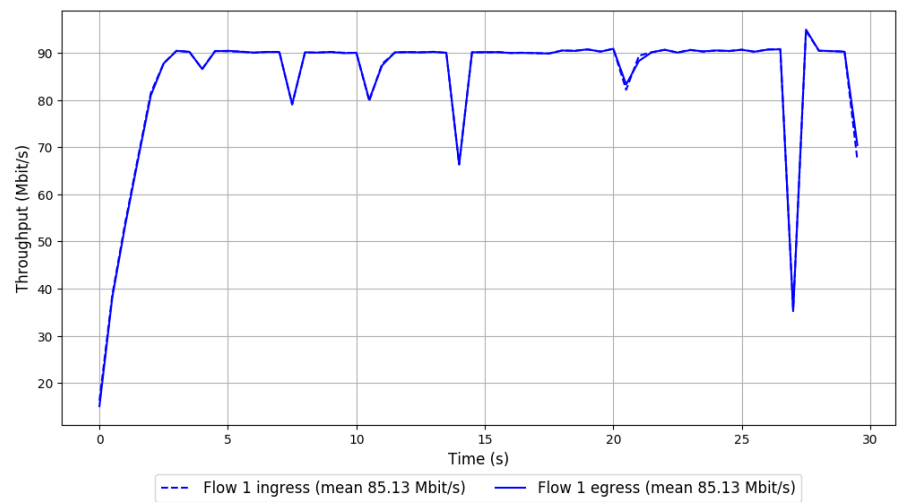
-- Flow 1:

Average throughput: 85.13 Mbit/s

95th percentile per-packet one-way delay: 18.912 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-30 13:27:31

End at: 2017-11-30 13:28:01

Local clock offset: 0.115 ms

Remote clock offset: -1.67 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 18.782 ms

Loss rate: 0.00%

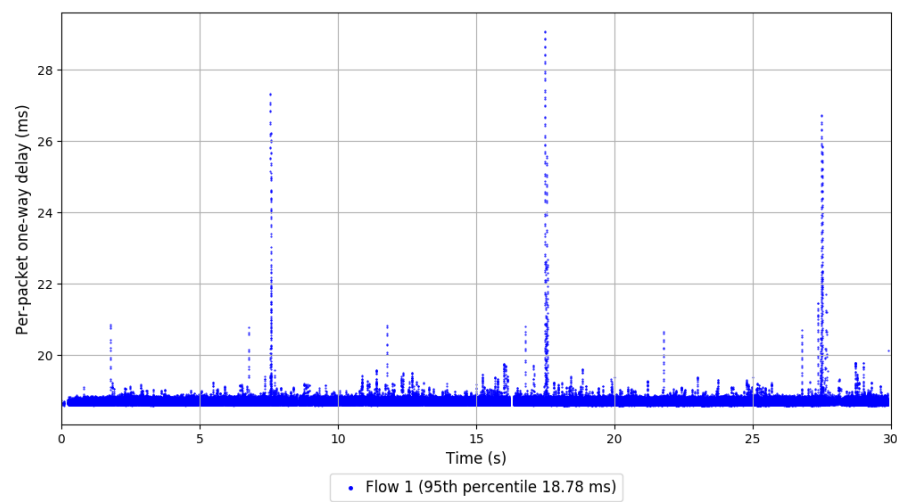
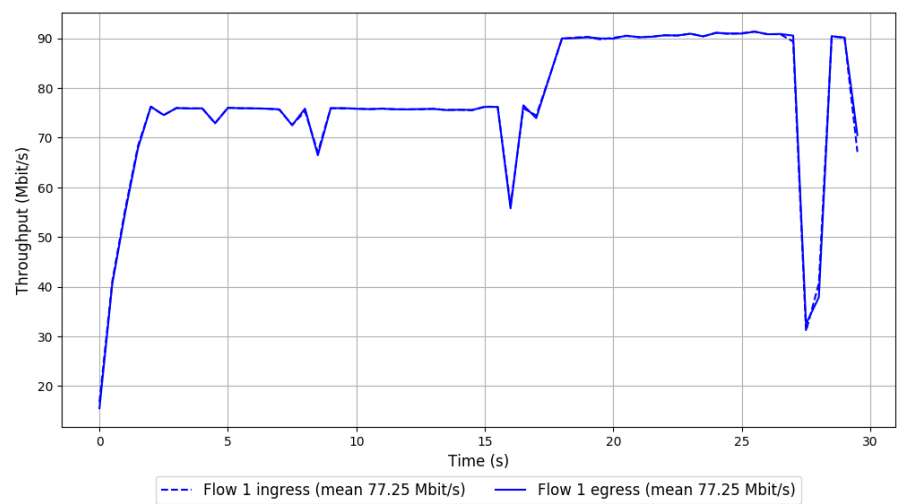
-- Flow 1:

Average throughput: 77.25 Mbit/s

95th percentile per-packet one-way delay: 18.782 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-30 13:45:46

End at: 2017-11-30 13:46:16

Local clock offset: 0.061 ms

Remote clock offset: -1.45 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.01%

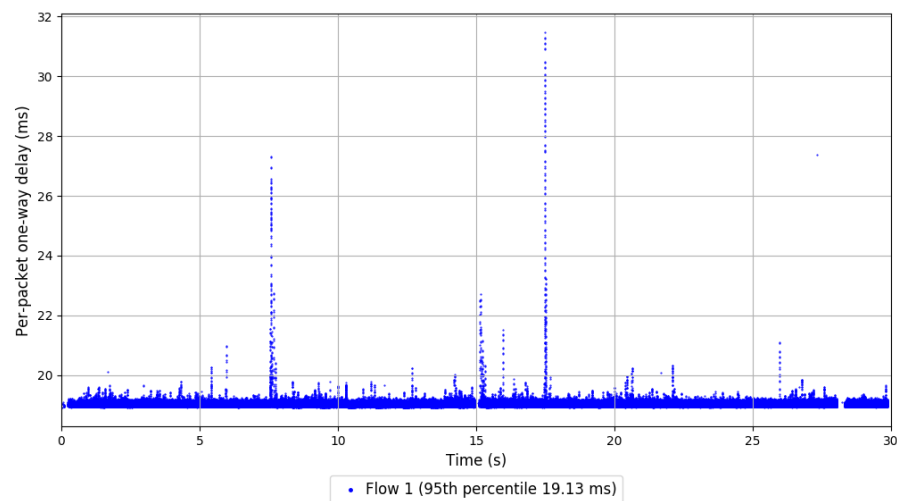
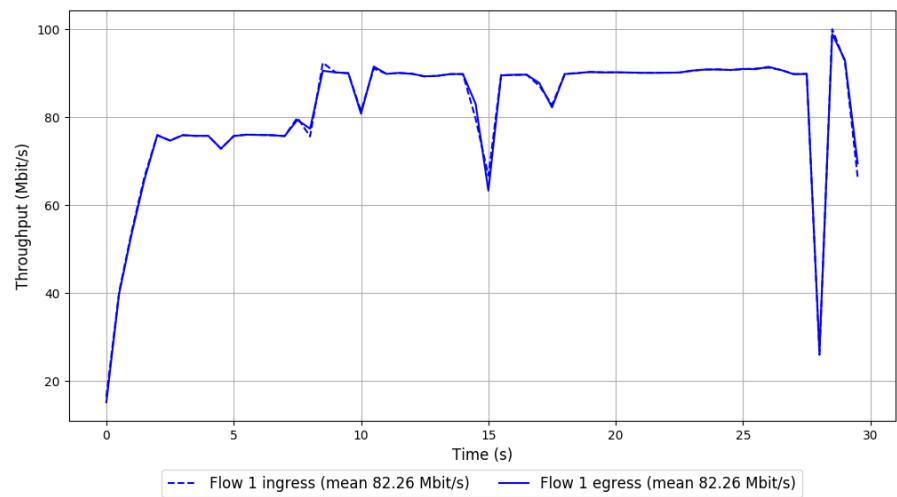
-- Flow 1:

Average throughput: 82.26 Mbit/s

95th percentile per-packet one-way delay: 19.127 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link

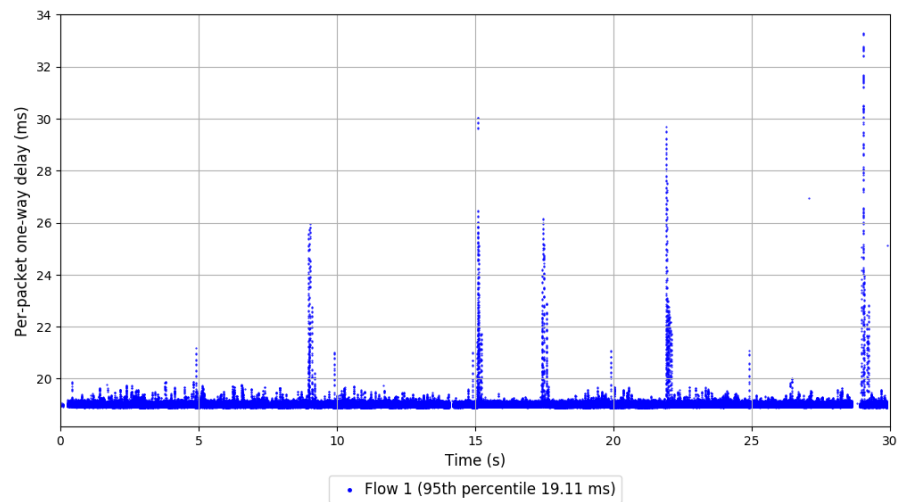
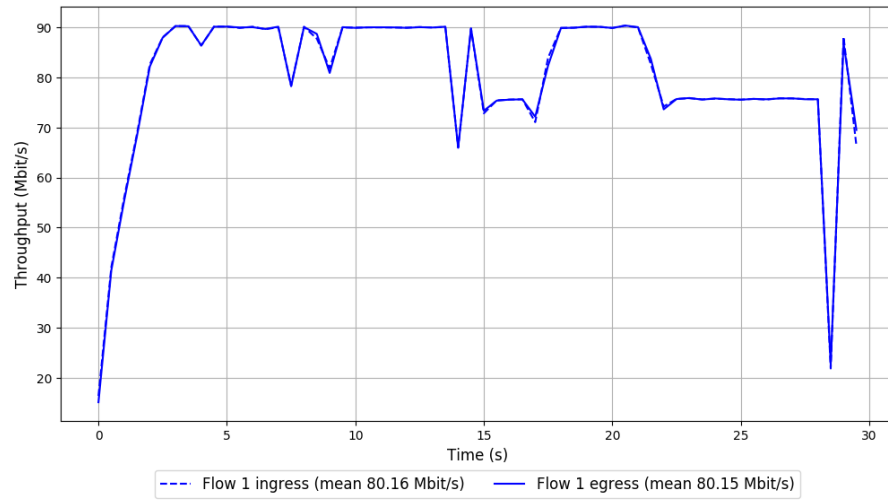


Run 7: Statistics of QUIC Cubic

Start at: 2017-11-30 14:04:41
End at: 2017-11-30 14:05:11
Local clock offset: 0.064 ms
Remote clock offset: -1.552 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 19.109 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.15 Mbit/s
95th percentile per-packet one-way delay: 19.109 ms
Loss rate: 0.01%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-30 14:23:36

End at: 2017-11-30 14:24:06

Local clock offset: -0.01 ms

Remote clock offset: -1.547 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 19.168 ms

Loss rate: 0.01%

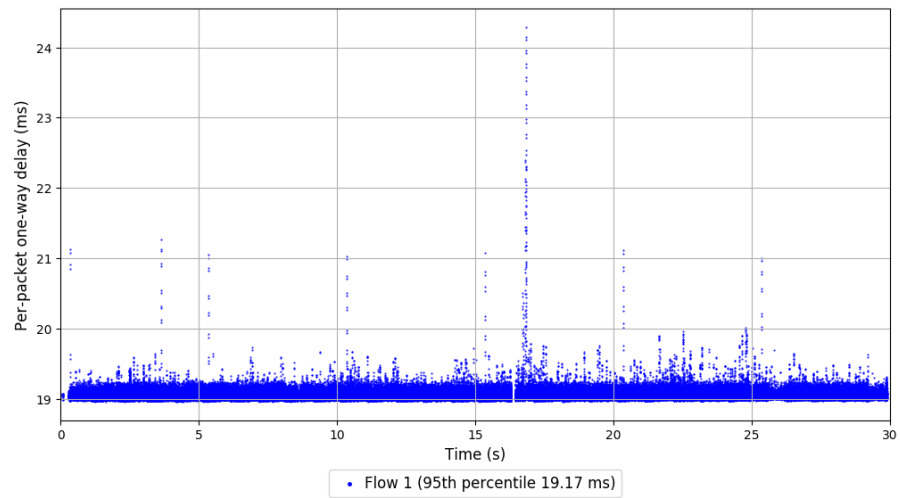
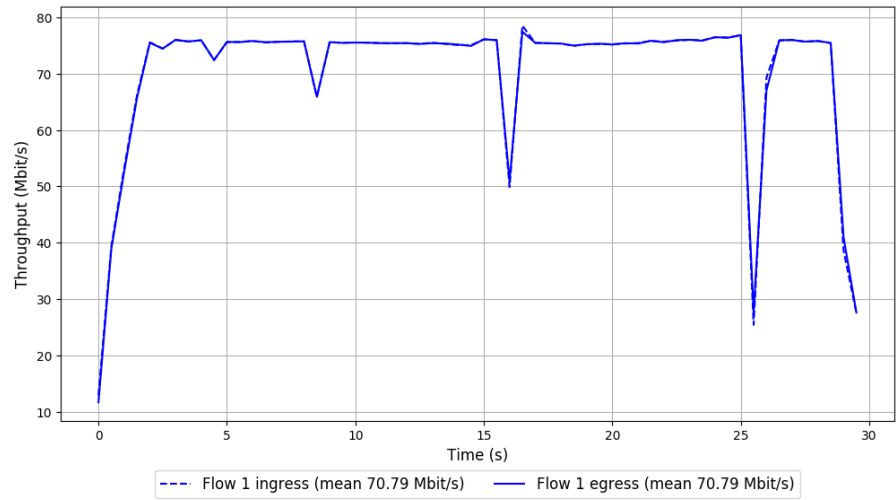
-- Flow 1:

Average throughput: 70.79 Mbit/s

95th percentile per-packet one-way delay: 19.168 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link

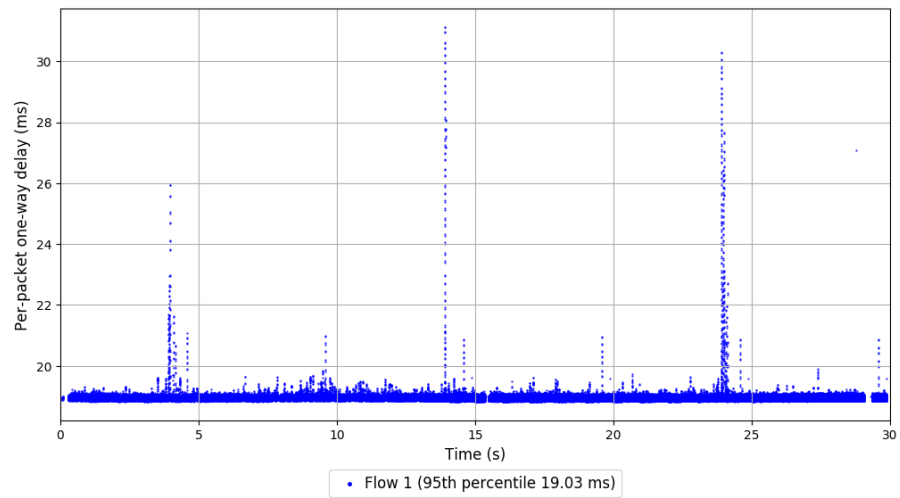
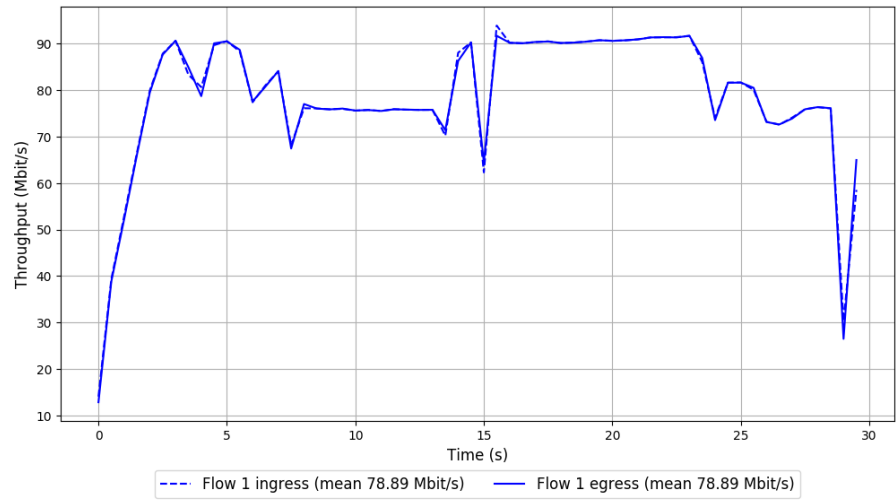


Run 9: Statistics of QUIC Cubic

Start at: 2017-11-30 14:42:11
End at: 2017-11-30 14:42:41
Local clock offset: 0.014 ms
Remote clock offset: -1.916 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 19.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 78.89 Mbit/s
95th percentile per-packet one-way delay: 19.034 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-30 15:00:51

End at: 2017-11-30 15:01:21

Local clock offset: -0.05 ms

Remote clock offset: -1.858 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 18.805 ms

Loss rate: 0.01%

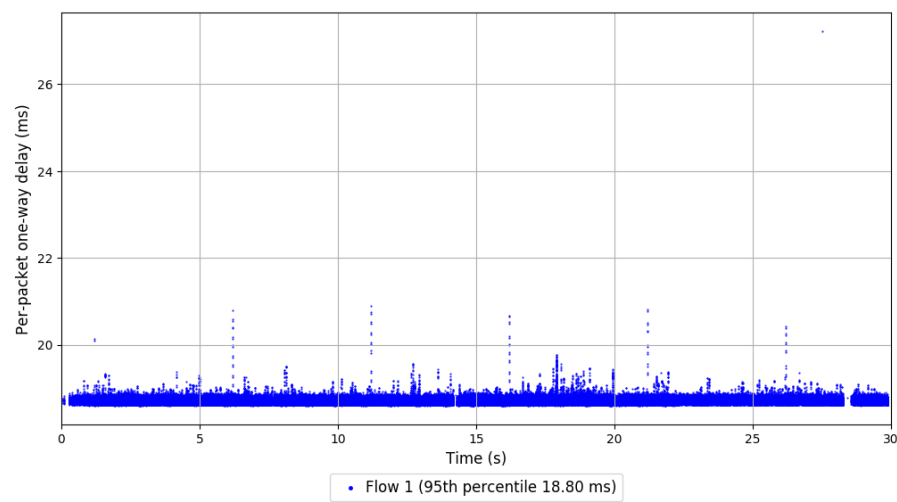
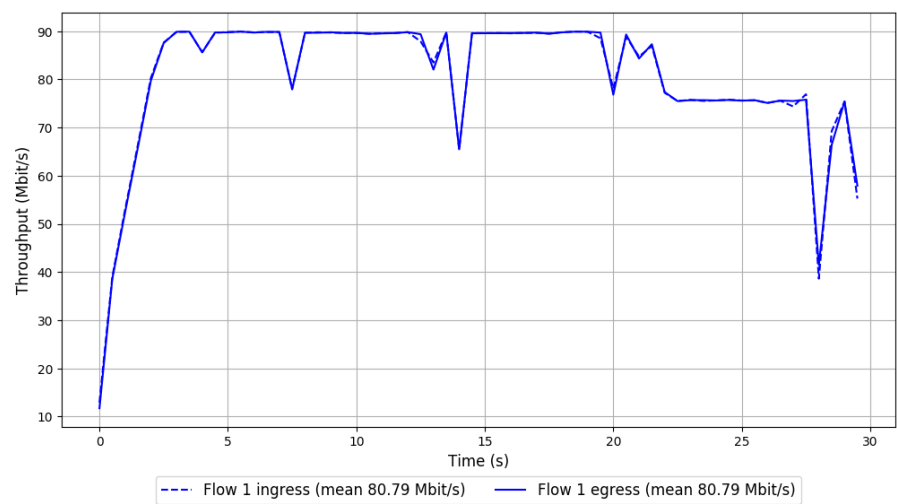
-- Flow 1:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 18.805 ms

Loss rate: 0.01%

Run 10: Report of QUIC Cubic — Data Link

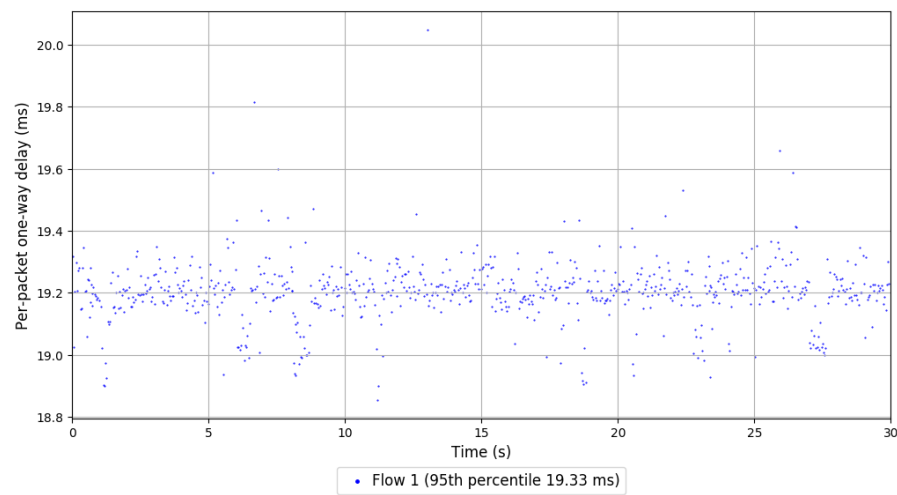
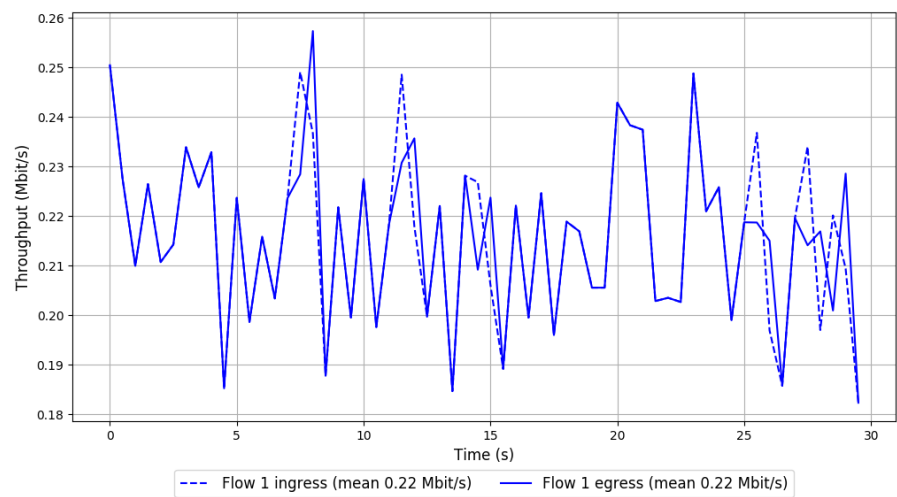


```
Run 1: Statistics of SCReAM

Start at: 2017-11-30 12:05:55
End at: 2017-11-30 12:06:25
Local clock offset: -0.074 ms
Remote clock offset: -1.377 ms

# Below is generated by plot.py at 2017-11-30 17:05:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.332 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.332 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

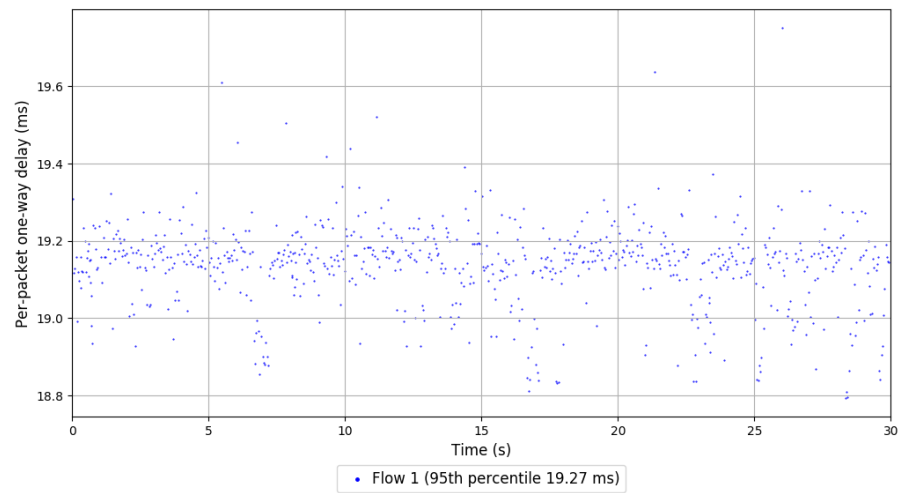
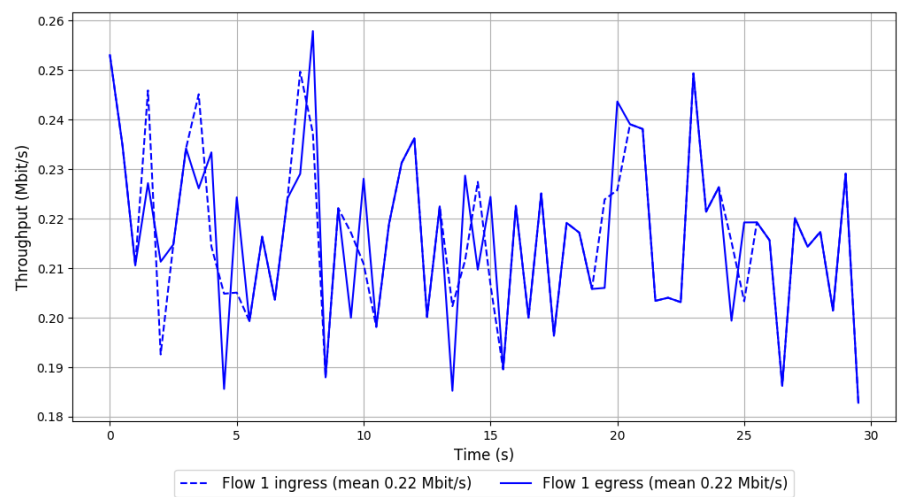


Run 2: Statistics of SCReAM

Start at: 2017-11-30 12:24:42
End at: 2017-11-30 12:25:12
Local clock offset: 0.001 ms
Remote clock offset: -1.786 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.275 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

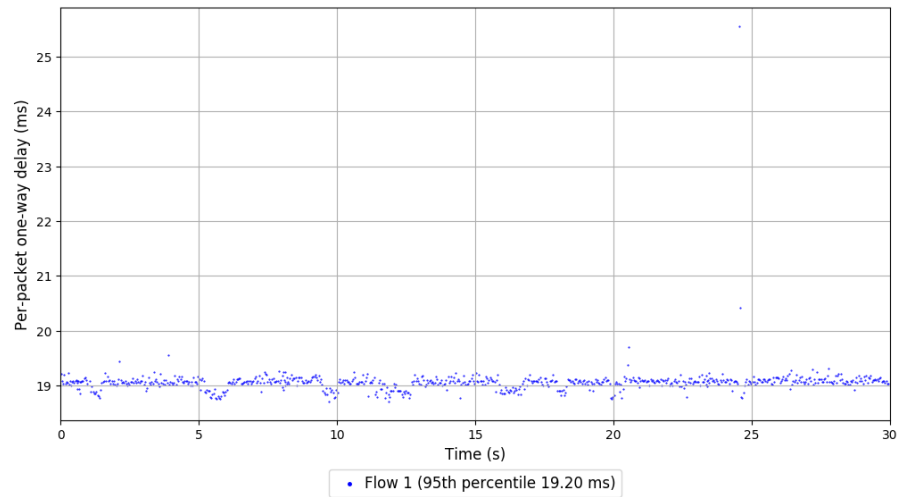
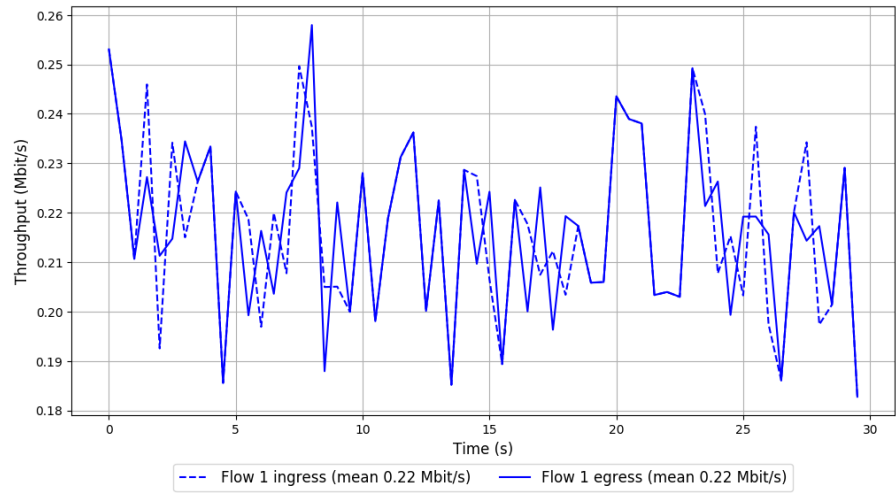


Run 3: Statistics of SCReAM

Start at: 2017-11-30 12:43:37
End at: 2017-11-30 12:44:07
Local clock offset: 0.008 ms
Remote clock offset: -1.873 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.196 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.196 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-11-30 13:02:11

End at: 2017-11-30 13:02:41

Local clock offset: 0.097 ms

Remote clock offset: -1.79 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.229 ms

Loss rate: 0.00%

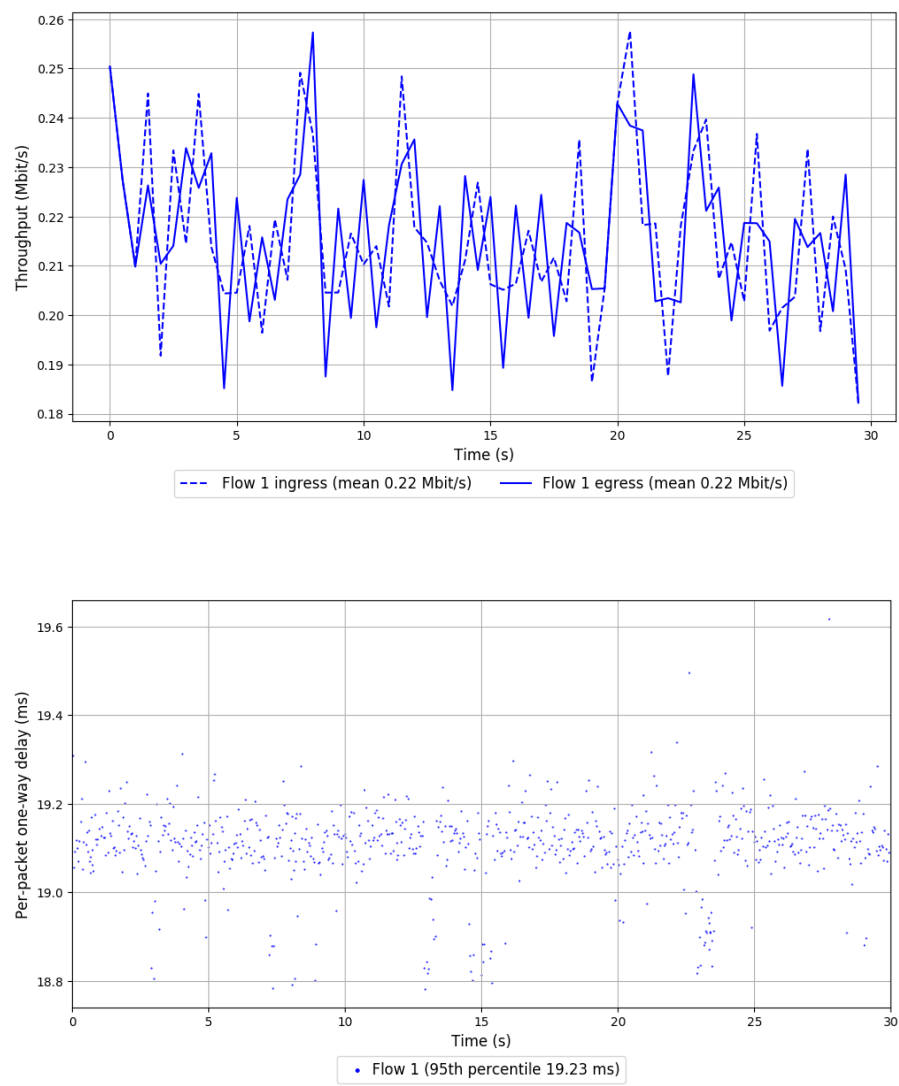
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.229 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

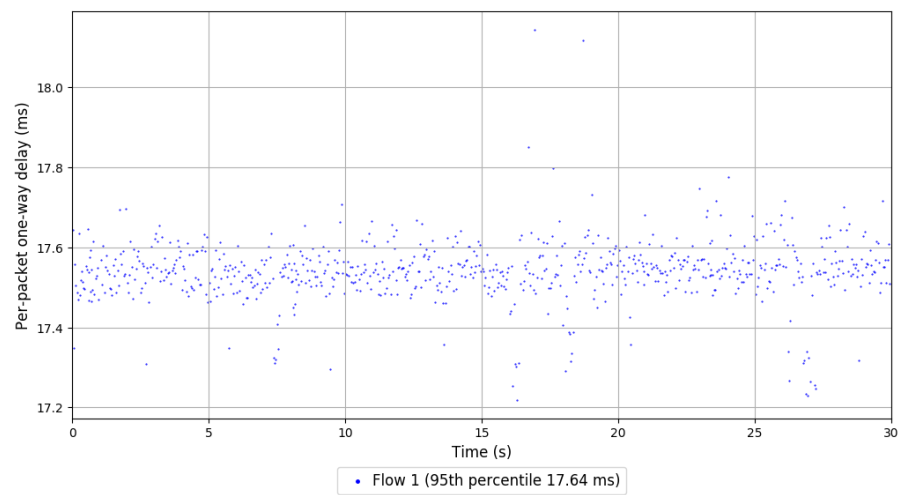
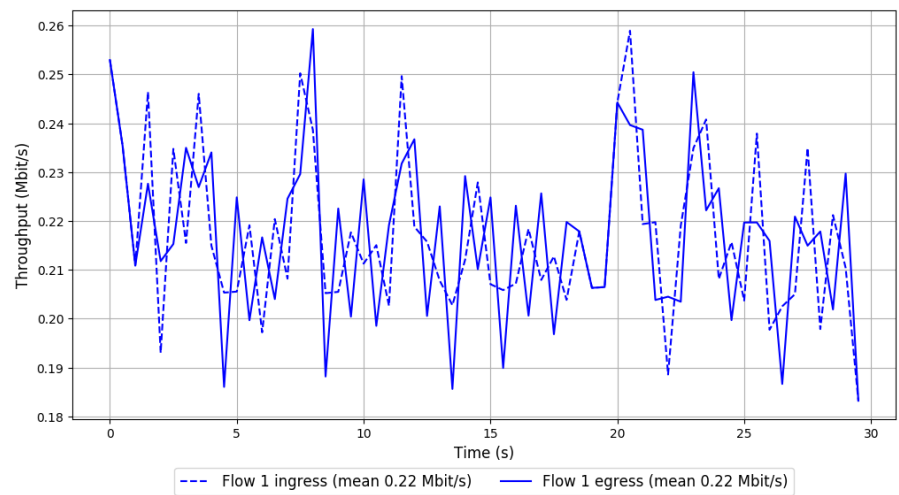


Run 5: Statistics of SCReAM

Start at: 2017-11-30 13:21:03
End at: 2017-11-30 13:21:33
Local clock offset: 0.096 ms
Remote clock offset: -1.677 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.643 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

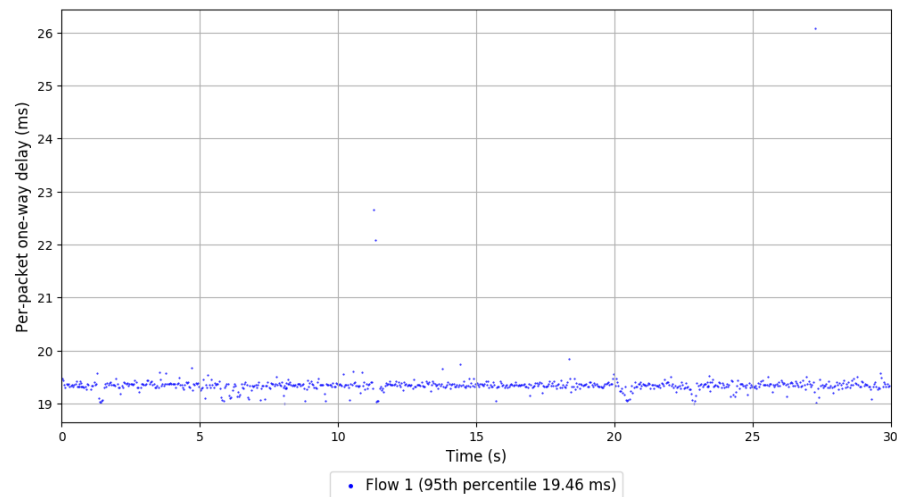
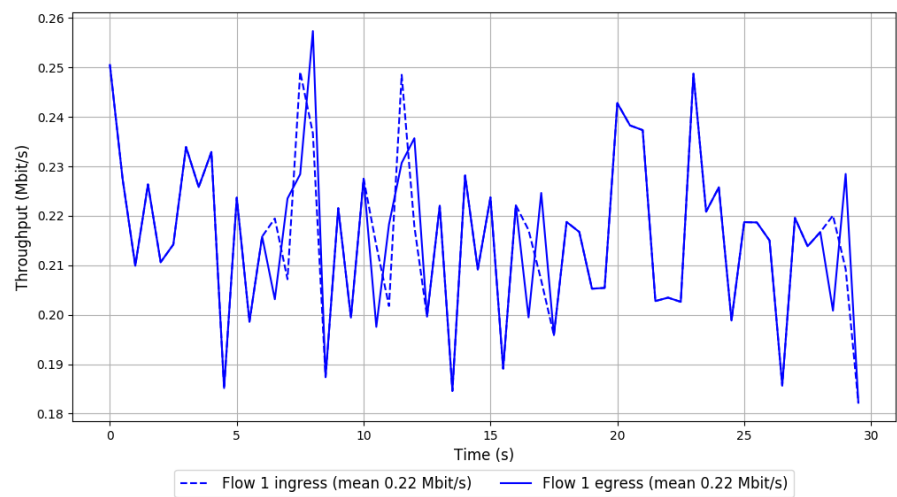


Run 6: Statistics of SCReAM

Start at: 2017-11-30 13:39:17
End at: 2017-11-30 13:39:47
Local clock offset: 0.041 ms
Remote clock offset: -1.399 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.457 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.457 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

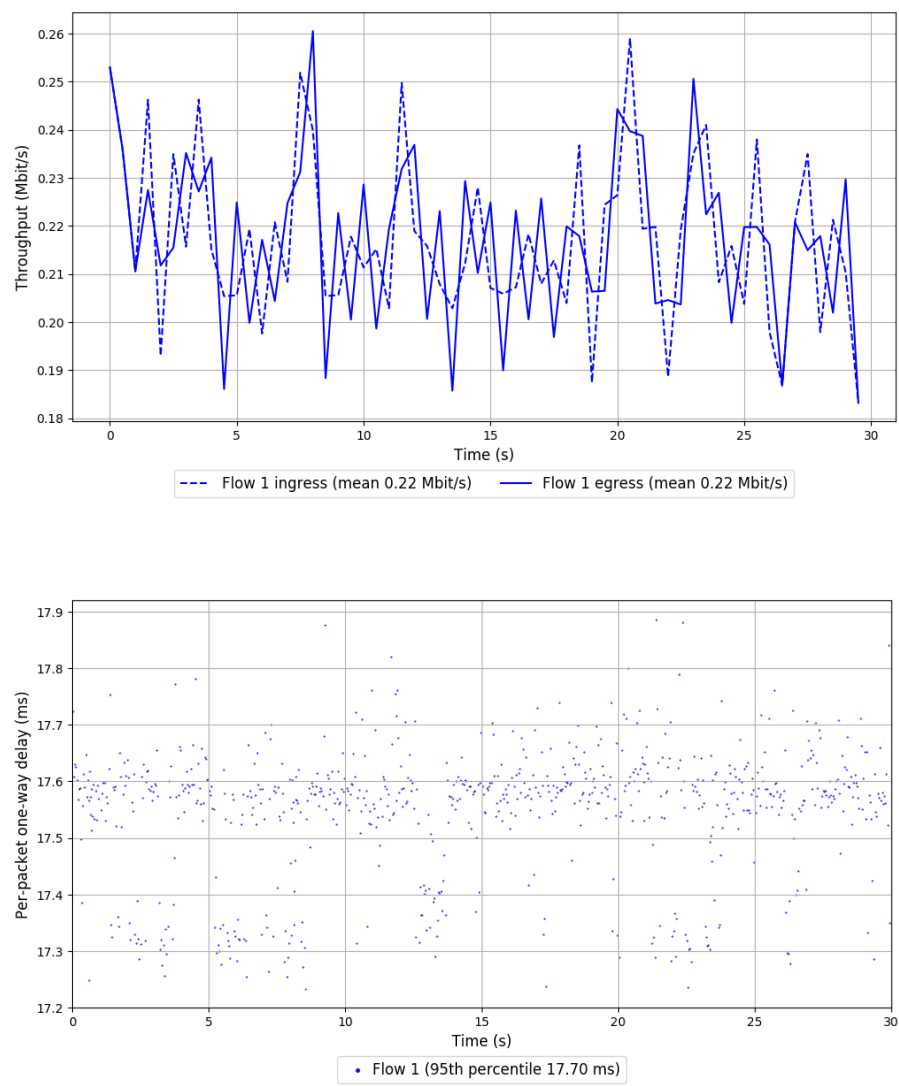


Run 7: Statistics of SCReAM

Start at: 2017-11-30 13:58:14
End at: 2017-11-30 13:58:44
Local clock offset: 0.155 ms
Remote clock offset: -1.585 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.701 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 17.701 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2017-11-30 14:17:08
End at: 2017-11-30 14:17:38
Local clock offset: 0.021 ms
Remote clock offset: -1.389 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.478 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.478 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2017-11-30 14:35:43

End at: 2017-11-30 14:36:13

Local clock offset: -0.037 ms

Remote clock offset: -1.67 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.00%

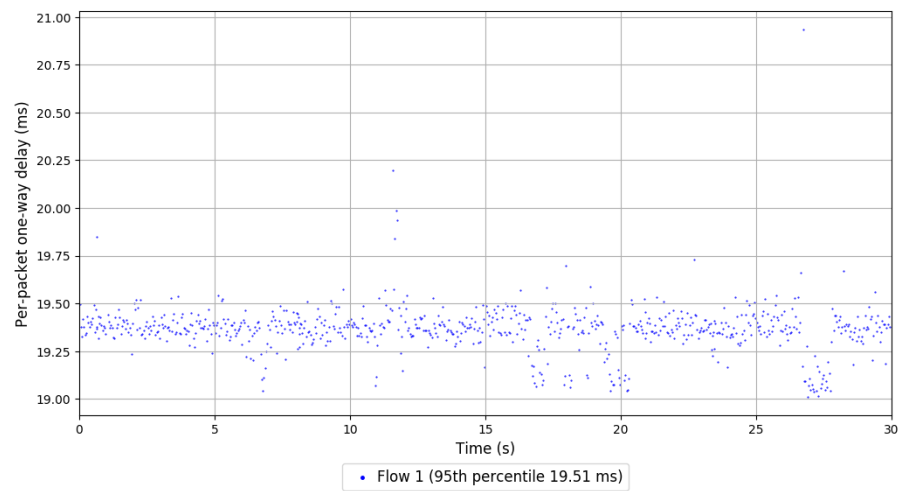
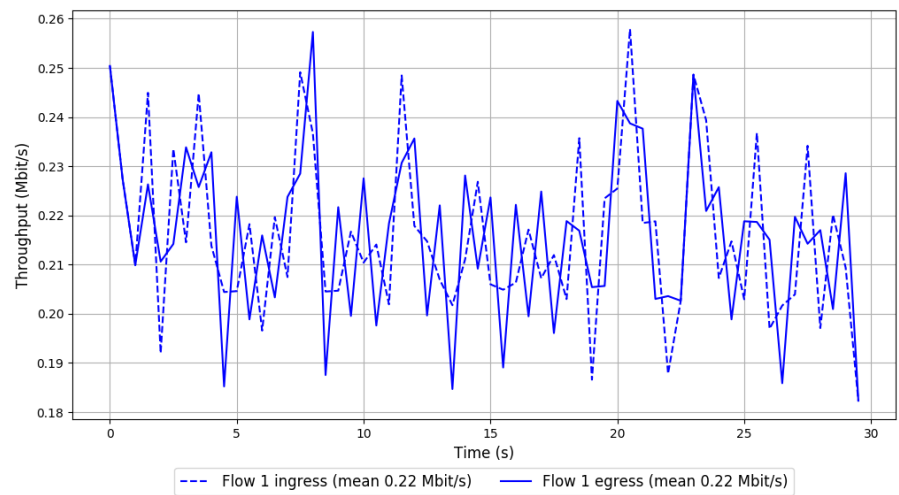
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.510 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-11-30 14:54:23

End at: 2017-11-30 14:54:53

Local clock offset: -0.02 ms

Remote clock offset: -1.812 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.223 ms

Loss rate: 0.00%

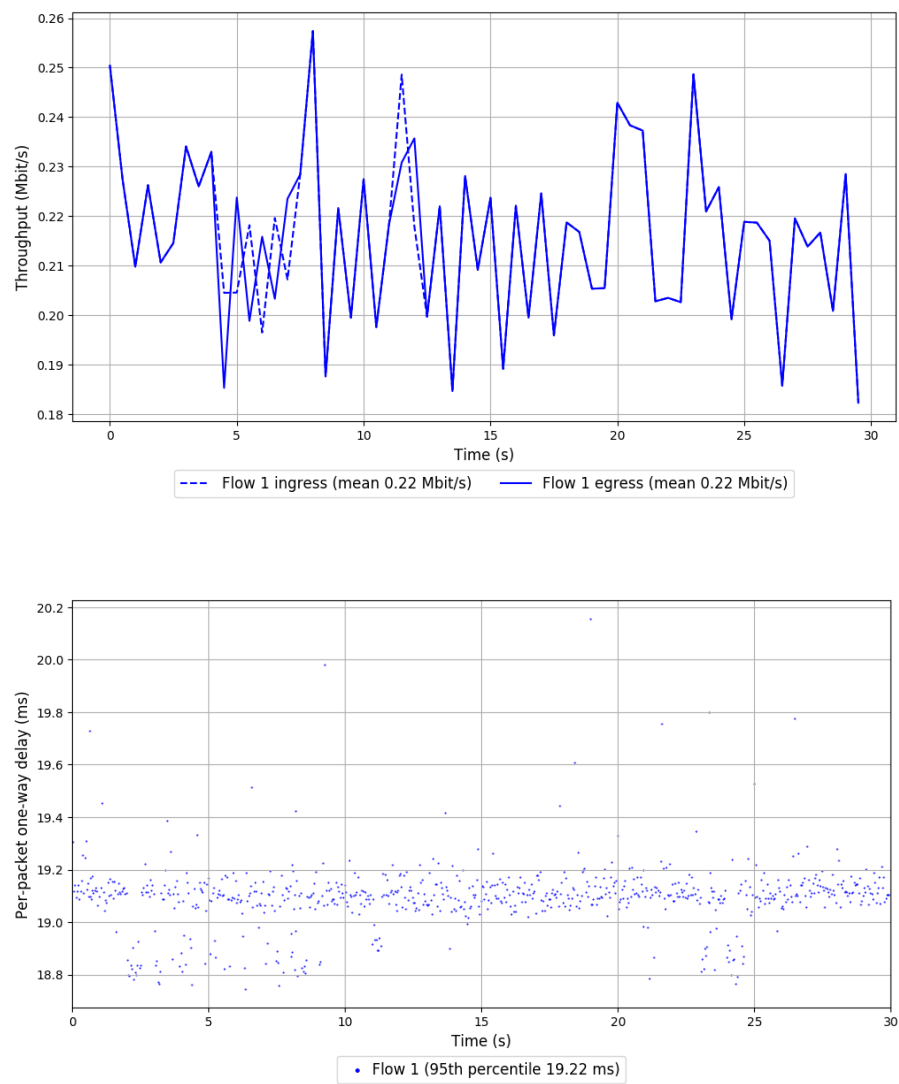
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.223 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-11-30 12:08:26

End at: 2017-11-30 12:08:56

Local clock offset: 0.049 ms

Remote clock offset: -1.508 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.300 ms

Loss rate: 0.00%

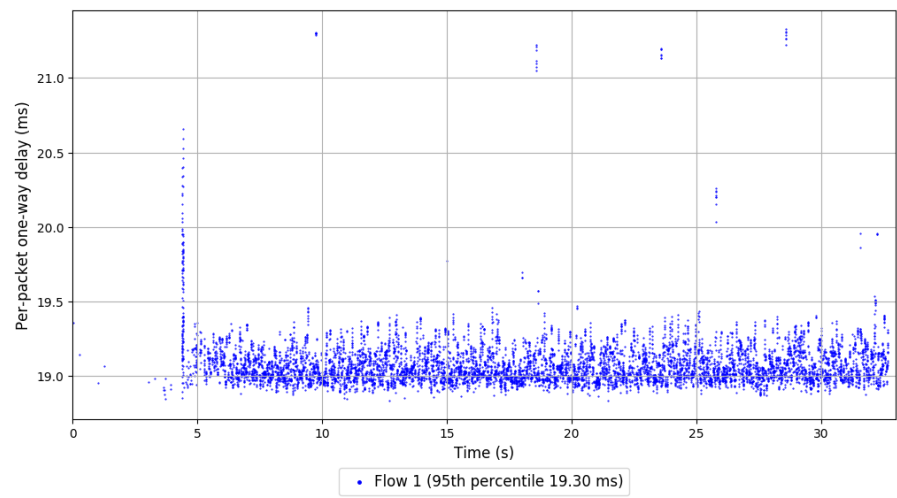
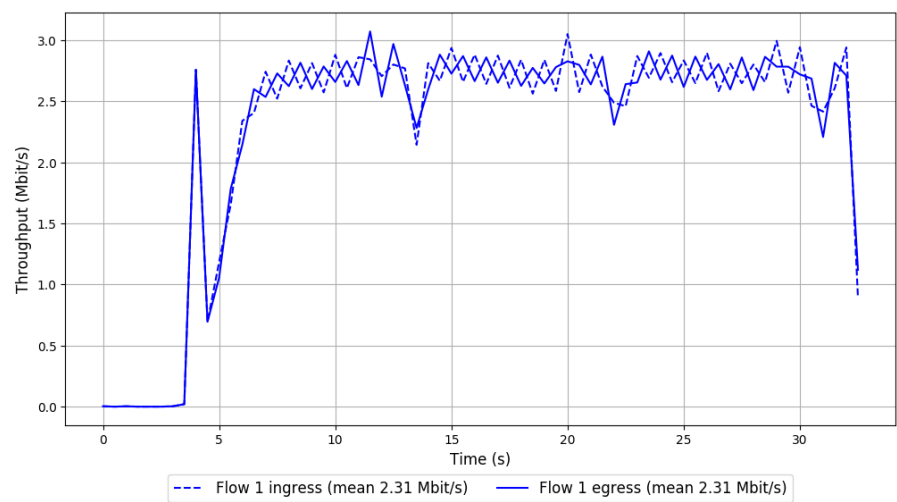
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.300 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

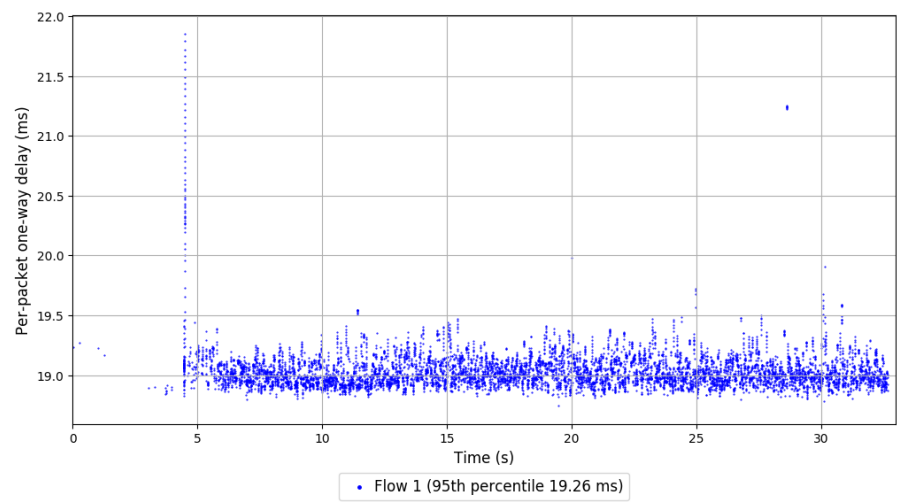
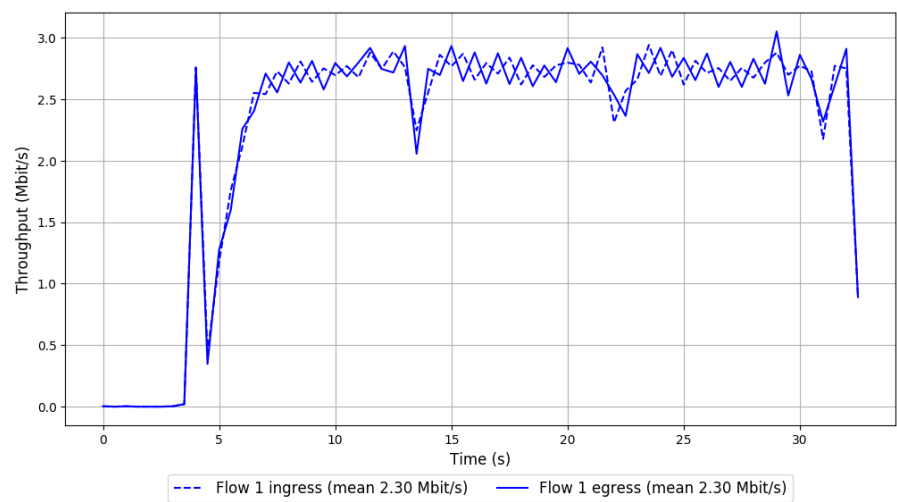


Run 2: Statistics of WebRTC media

Start at: 2017-11-30 12:27:13
End at: 2017-11-30 12:27:43
Local clock offset: 0.097 ms
Remote clock offset: -1.847 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 19.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 19.260 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

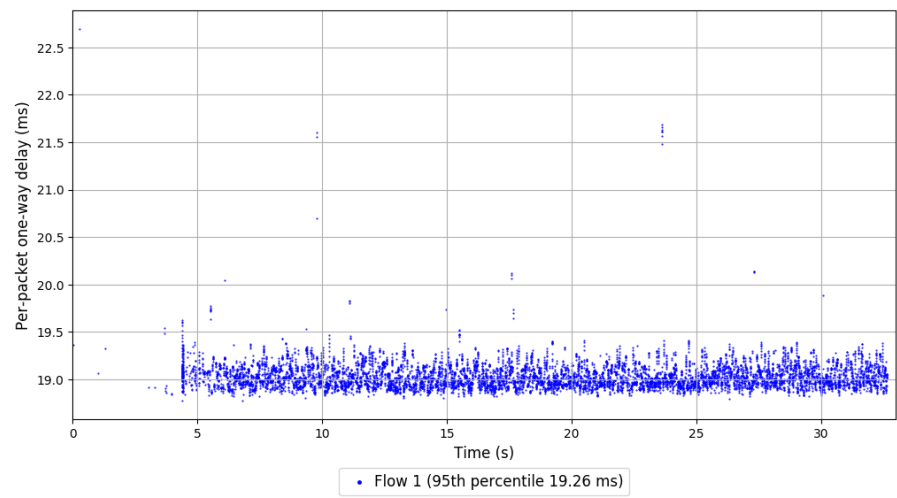
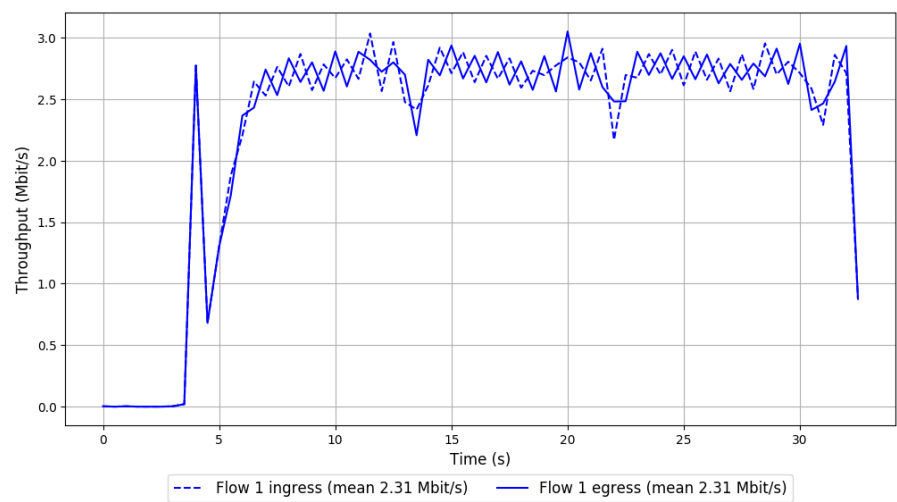


Run 3: Statistics of WebRTC media

Start at: 2017-11-30 12:46:07
End at: 2017-11-30 12:46:37
Local clock offset: -0.014 ms
Remote clock offset: -1.818 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.261 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

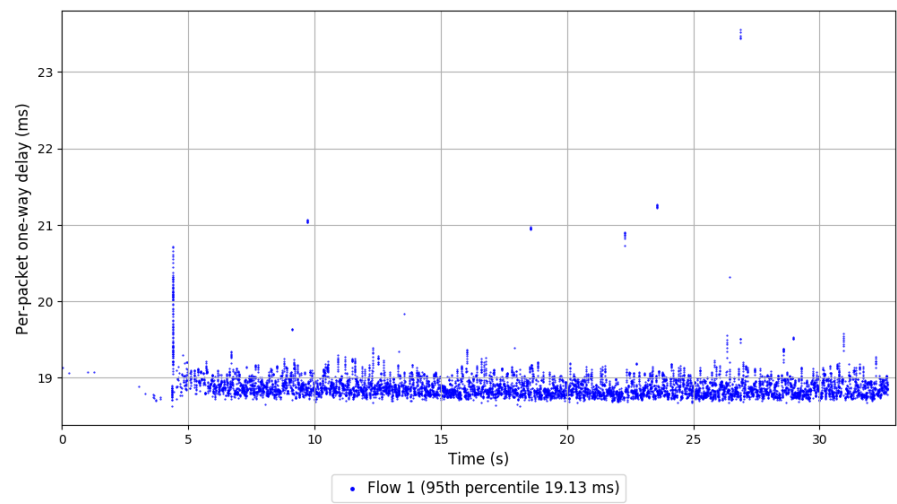
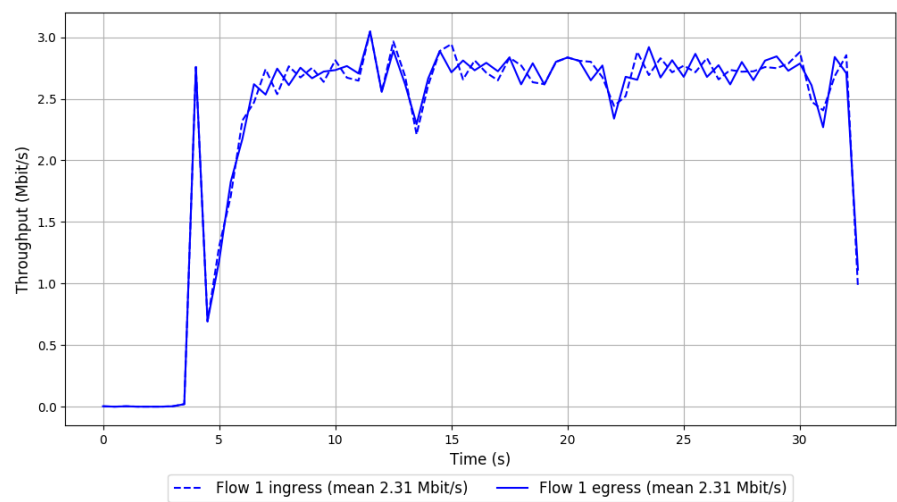


Run 4: Statistics of WebRTC media

Start at: 2017-11-30 13:04:41
End at: 2017-11-30 13:05:11
Local clock offset: 0.014 ms
Remote clock offset: -1.892 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.126 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2017-11-30 13:23:33

End at: 2017-11-30 13:24:03

Local clock offset: 0.023 ms

Remote clock offset: -1.68 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 19.344 ms

Loss rate: 0.00%

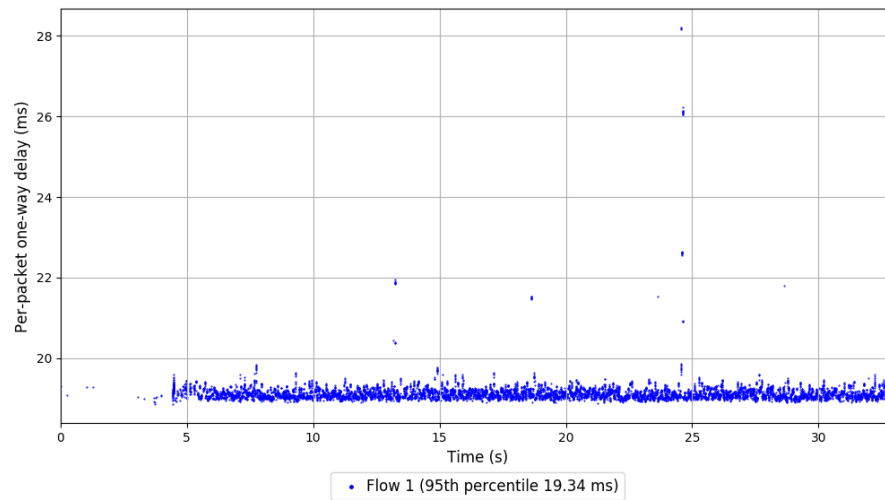
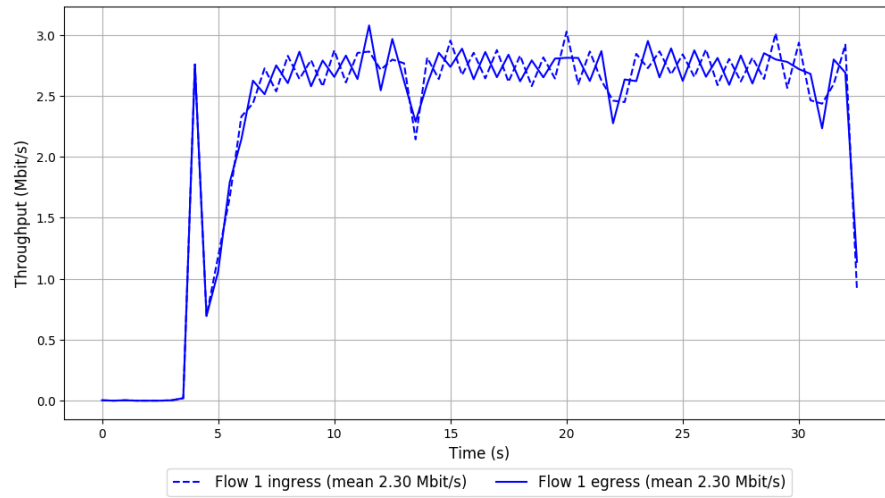
-- Flow 1:

Average throughput: 2.30 Mbit/s

95th percentile per-packet one-way delay: 19.344 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

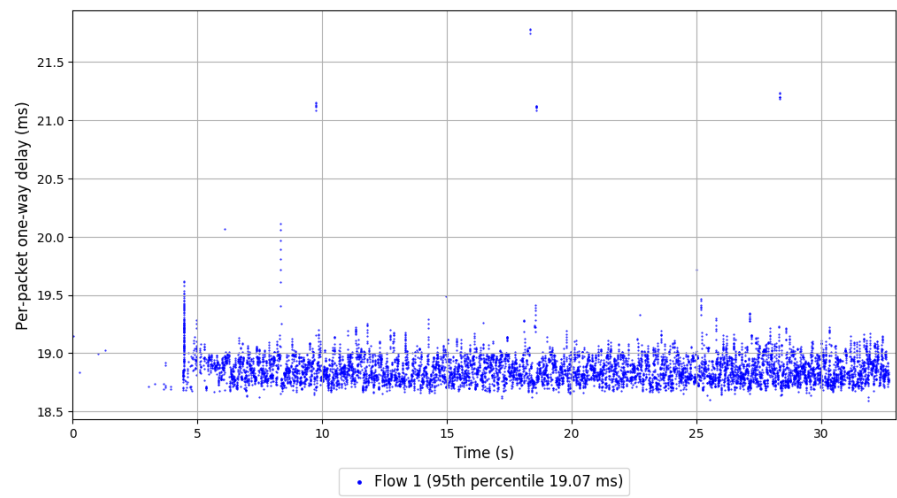
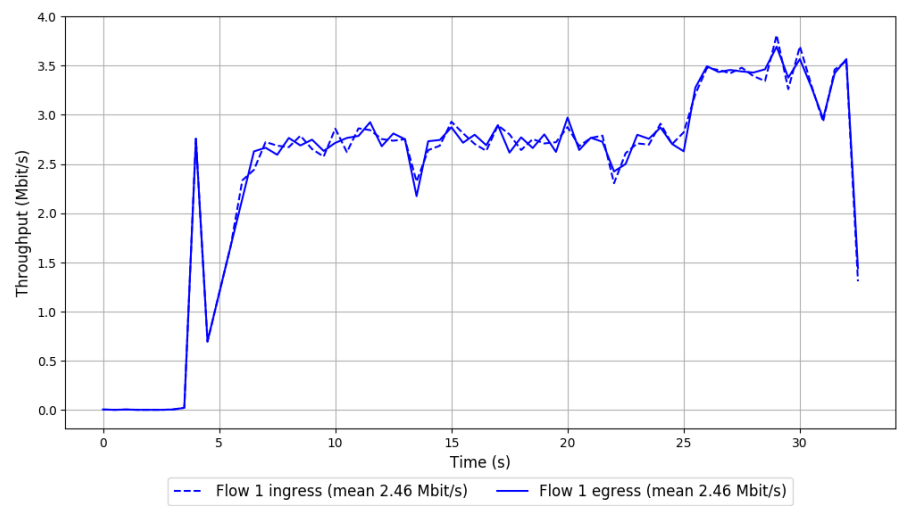


Run 6: Statistics of WebRTC media

Start at: 2017-11-30 13:41:48
End at: 2017-11-30 13:42:18
Local clock offset: 0.142 ms
Remote clock offset: -1.377 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 19.066 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.46 Mbit/s
95th percentile per-packet one-way delay: 19.066 ms
Loss rate: 0.01%

Run 6: Report of WebRTC media — Data Link

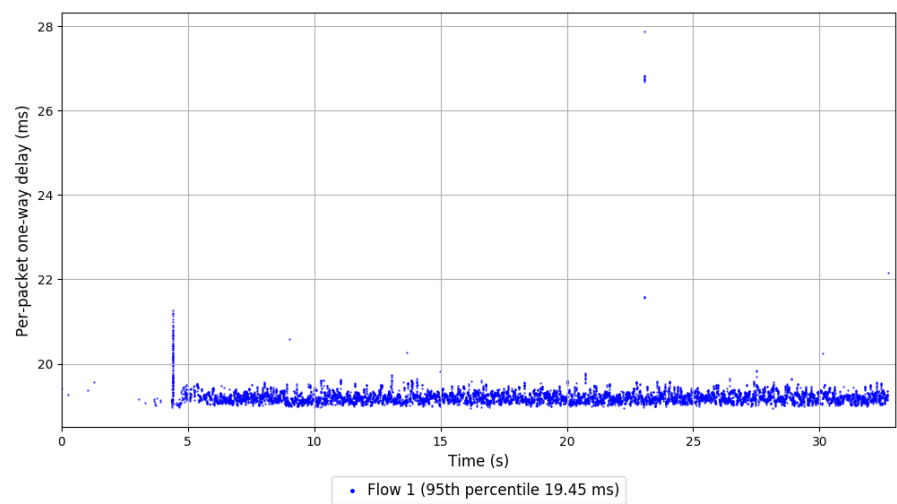
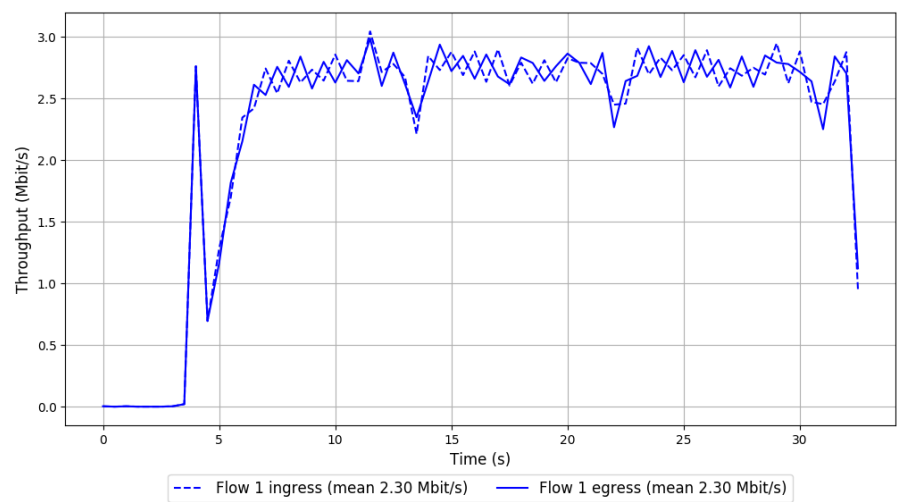


Run 7: Statistics of WebRTC media

Start at: 2017-11-30 14:00:44
End at: 2017-11-30 14:01:14
Local clock offset: 0.07 ms
Remote clock offset: -1.516 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 19.453 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 19.453 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

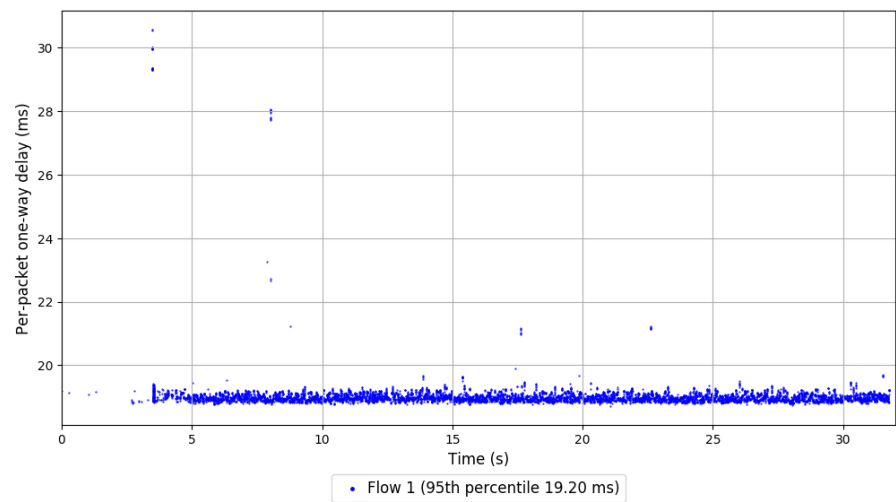
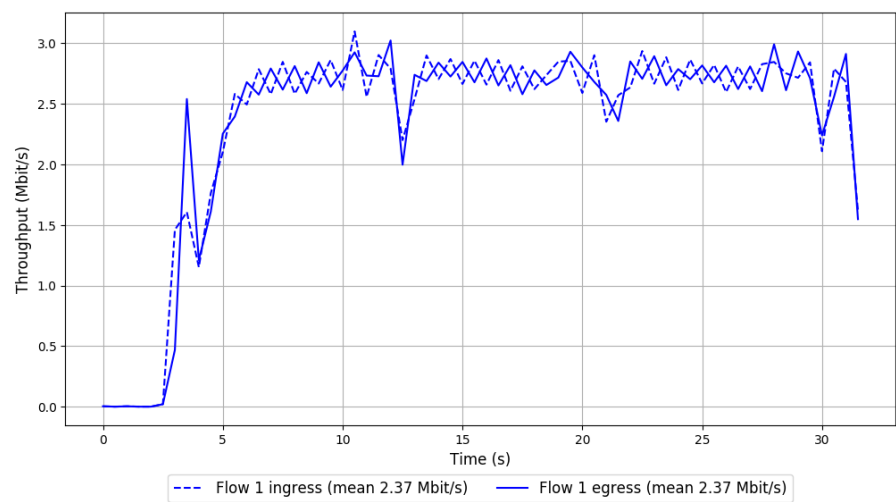


Run 8: Statistics of WebRTC media

Start at: 2017-11-30 14:19:39
End at: 2017-11-30 14:20:09
Local clock offset: 0.131 ms
Remote clock offset: -1.518 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 19.200 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 2.37 Mbit/s
95th percentile per-packet one-way delay: 19.200 ms
Loss rate: 0.05%

Run 8: Report of WebRTC media — Data Link

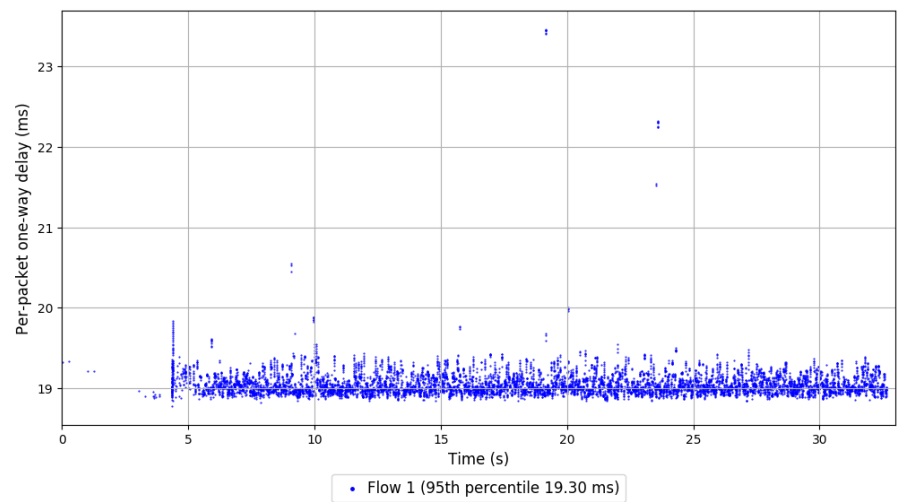
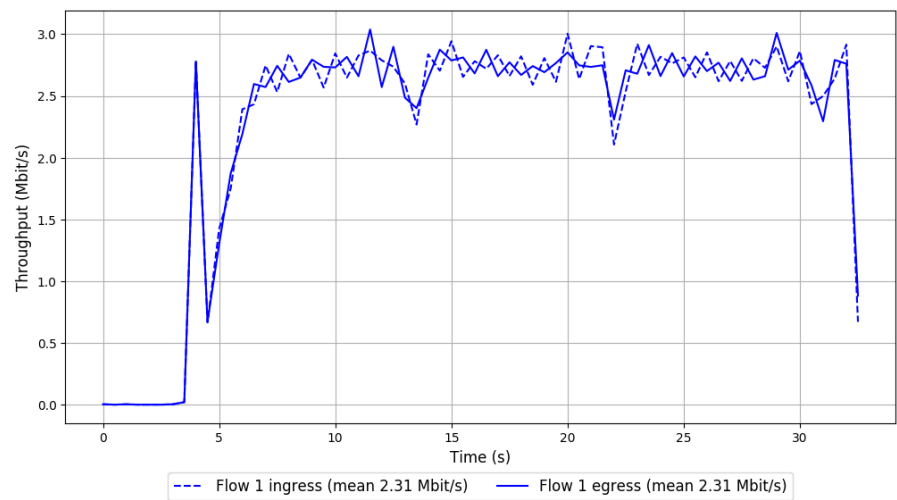


Run 9: Statistics of WebRTC media

Start at: 2017-11-30 14:38:13
End at: 2017-11-30 14:38:43
Local clock offset: 0.011 ms
Remote clock offset: -1.841 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.298 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.298 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-30 14:56:54

End at: 2017-11-30 14:57:24

Local clock offset: -0.005 ms

Remote clock offset: -1.852 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.283 ms

Loss rate: 0.00%

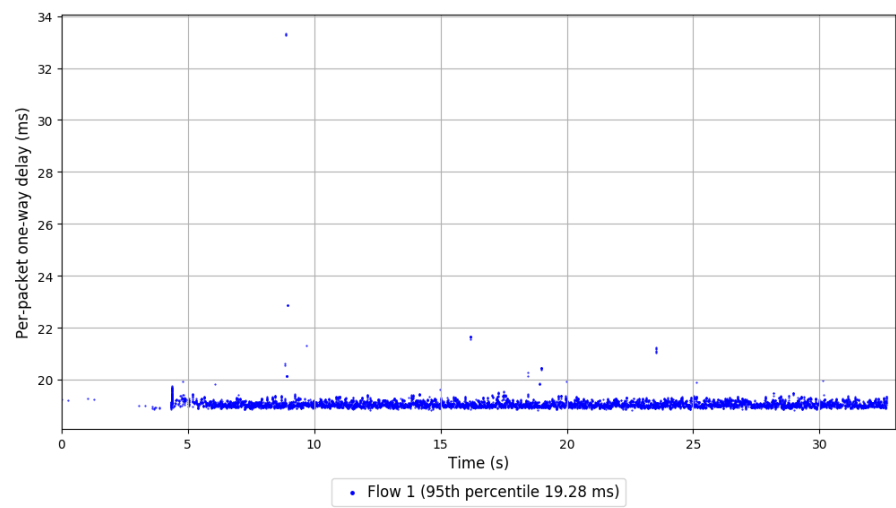
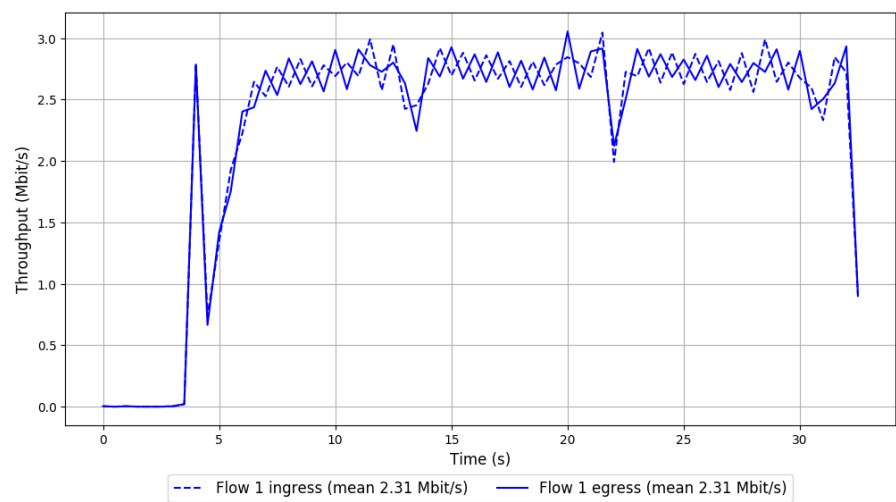
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.283 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

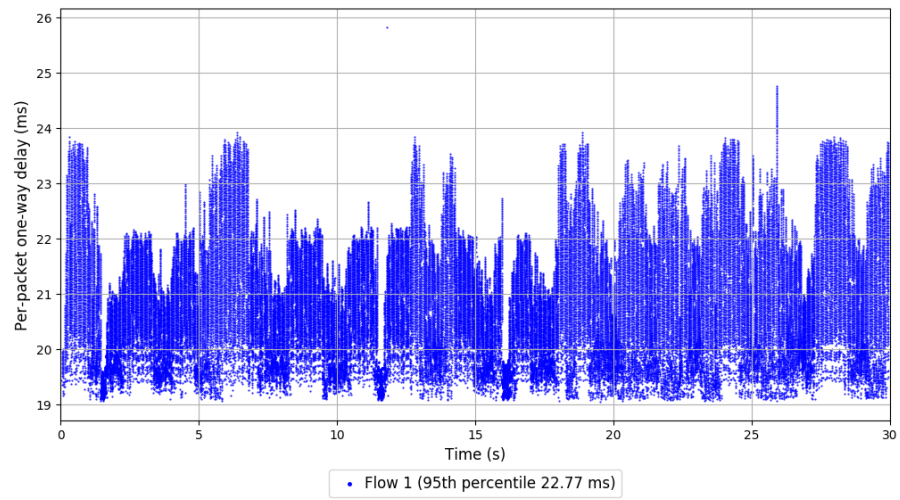
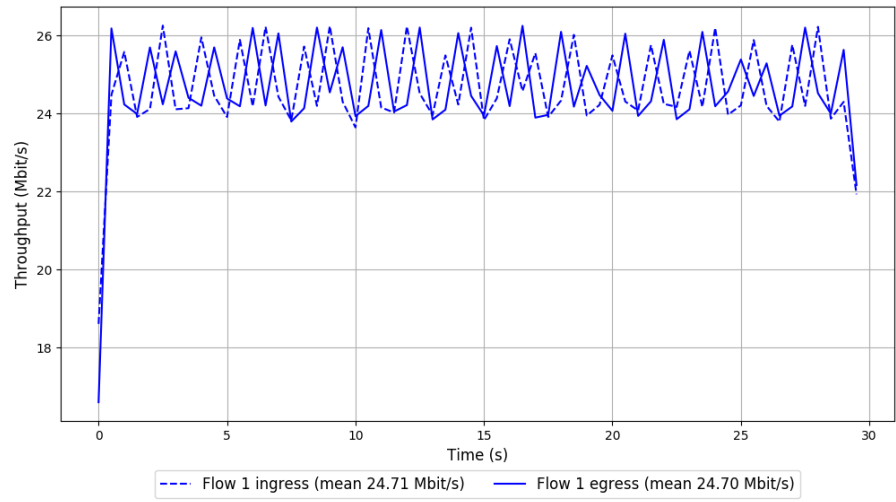


Run 1: Statistics of Sprout

Start at: 2017-11-30 12:11:12
End at: 2017-11-30 12:11:42
Local clock offset: -0.037 ms
Remote clock offset: -1.524 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.772 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.772 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

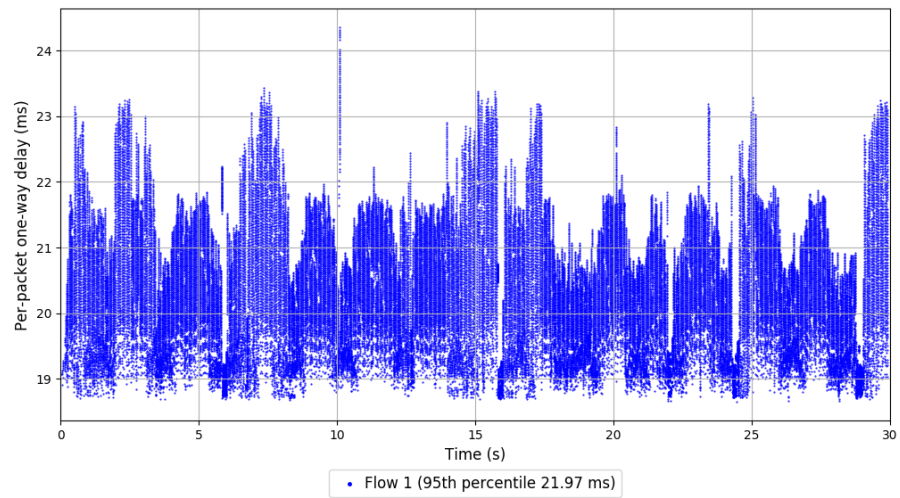
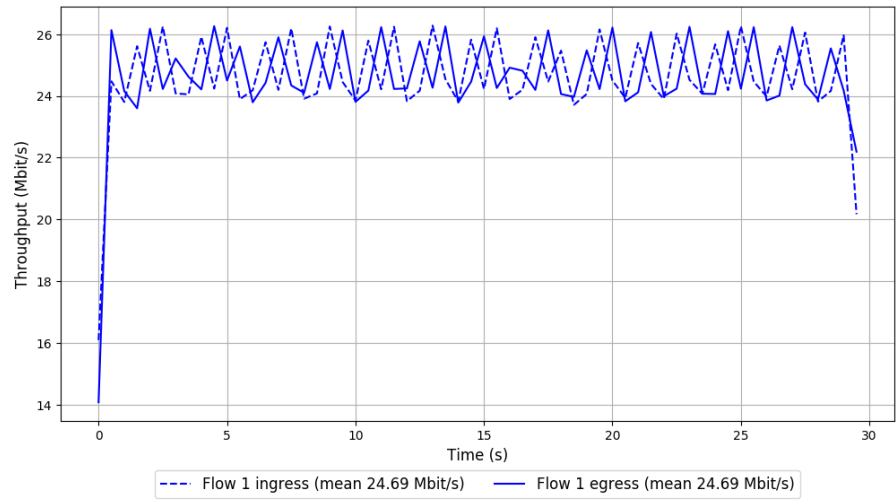


Run 2: Statistics of Sprout

Start at: 2017-11-30 12:29:58
End at: 2017-11-30 12:30:28
Local clock offset: 0.112 ms
Remote clock offset: -1.771 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.973 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.973 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

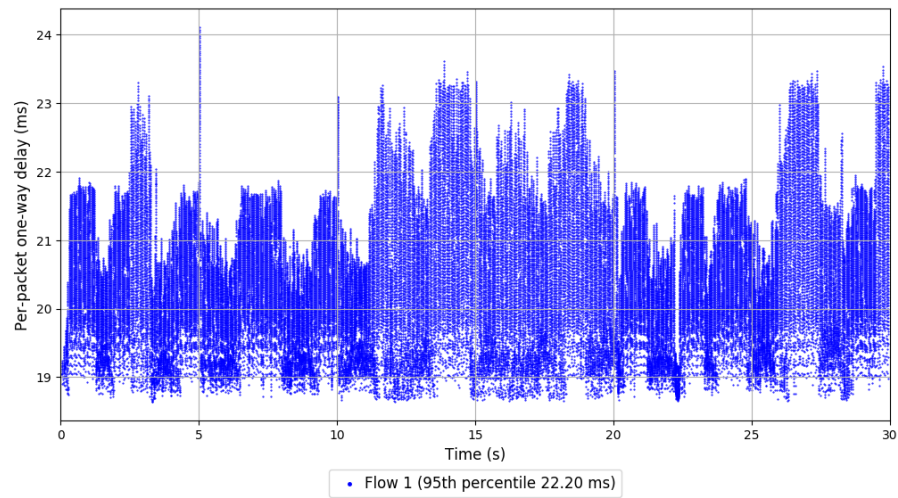
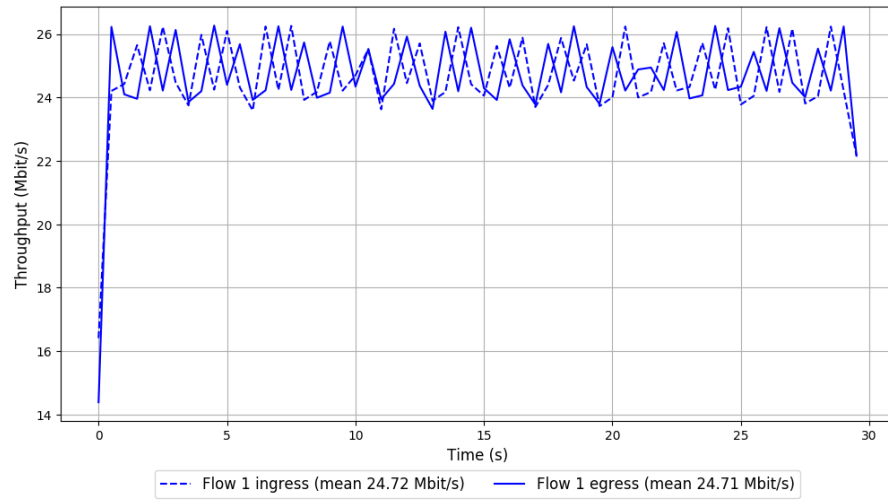


Run 3: Statistics of Sprout

Start at: 2017-11-30 12:48:54
End at: 2017-11-30 12:49:24
Local clock offset: 0.106 ms
Remote clock offset: -1.962 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.197 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.197 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

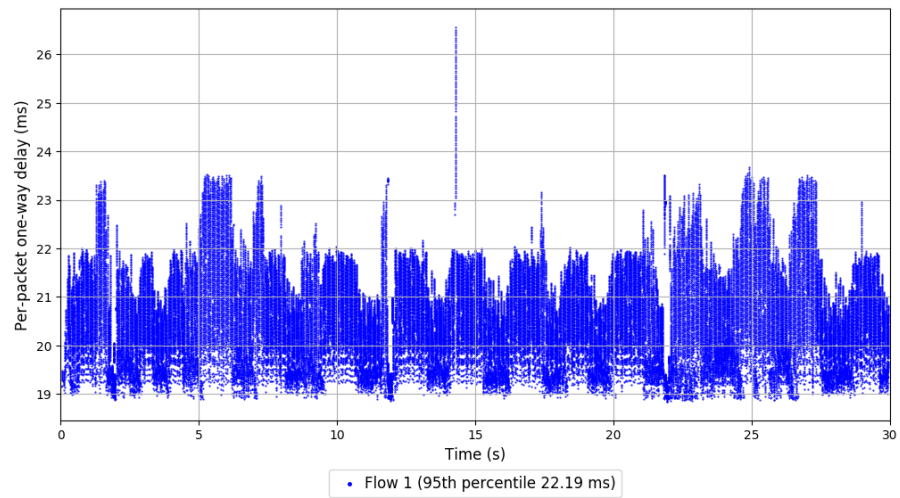
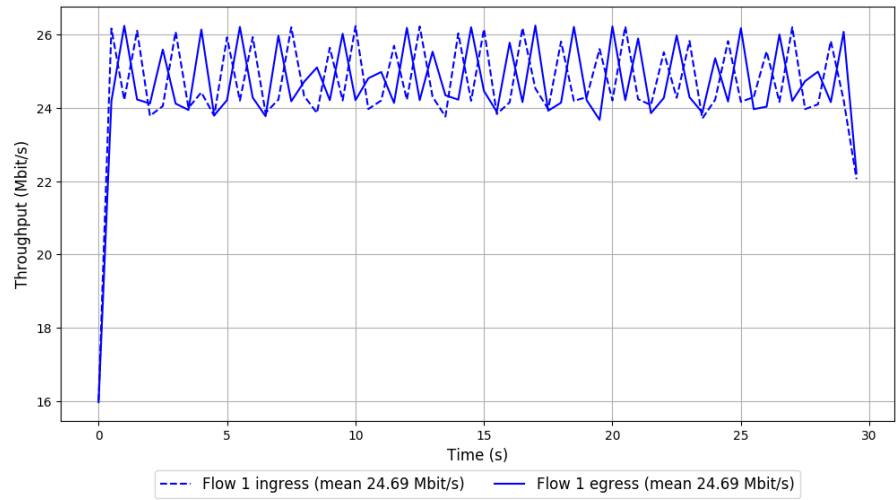


Run 4: Statistics of Sprout

Start at: 2017-11-30 13:07:27
End at: 2017-11-30 13:07:57
Local clock offset: 0.103 ms
Remote clock offset: -1.844 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 22.193 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 22.193 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

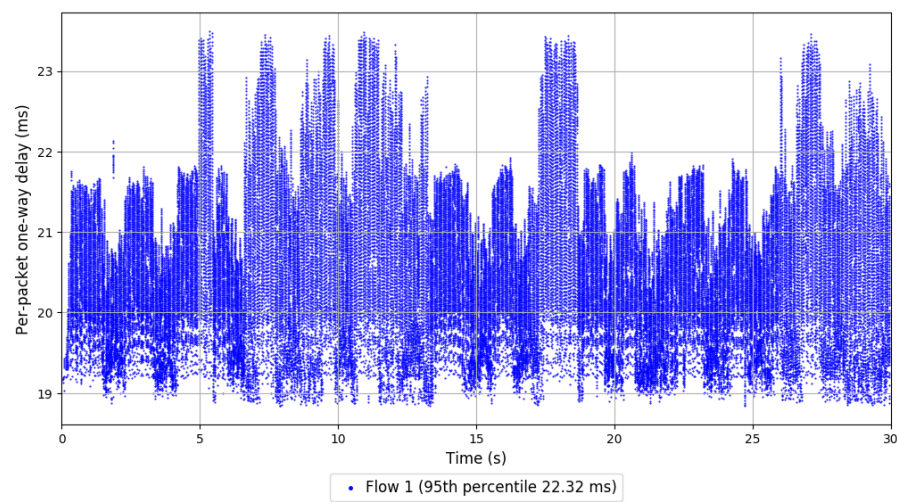
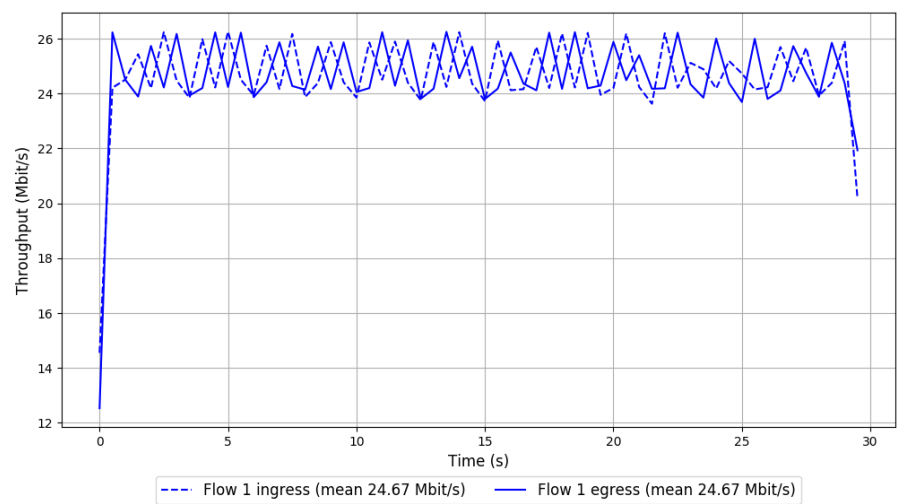


Run 5: Statistics of Sprout

Start at: 2017-11-30 13:26:20
End at: 2017-11-30 13:26:50
Local clock offset: 0.119 ms
Remote clock offset: -1.666 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 22.321 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.67 Mbit/s
95th percentile per-packet one-way delay: 22.321 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

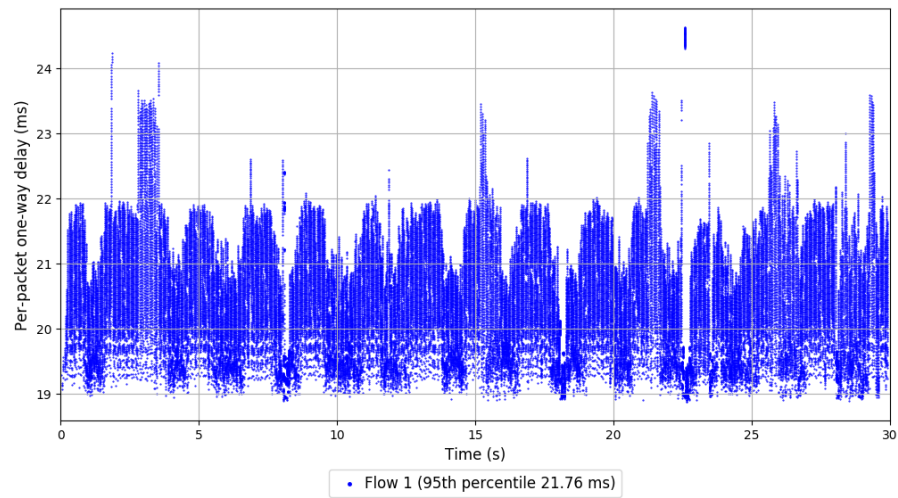
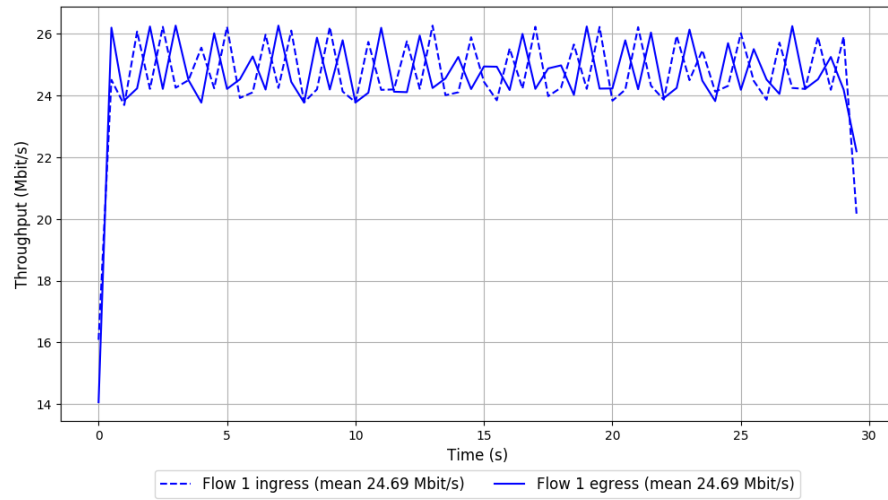


Run 6: Statistics of Sprout

Start at: 2017-11-30 13:44:36
End at: 2017-11-30 13:45:06
Local clock offset: 0.137 ms
Remote clock offset: -1.444 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.764 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 21.764 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

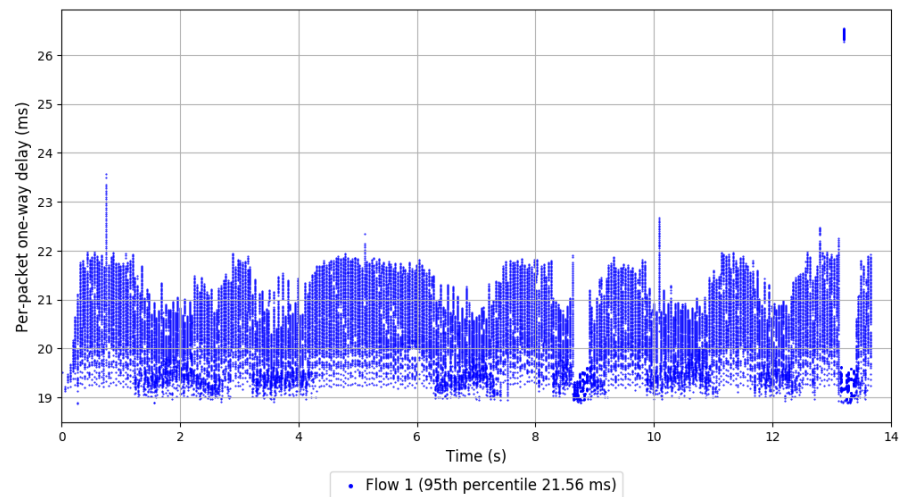
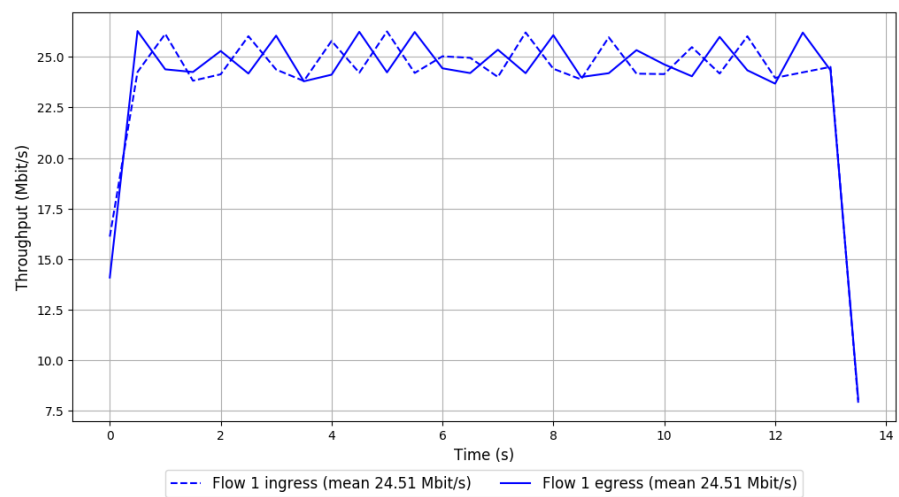
Start at: 2017-11-30 14:03:30

End at: 2017-11-30 14:04:00

Local clock offset: 0.159 ms

Remote clock offset: -1.57 ms

Run 7: Report of Sprout — Data Link

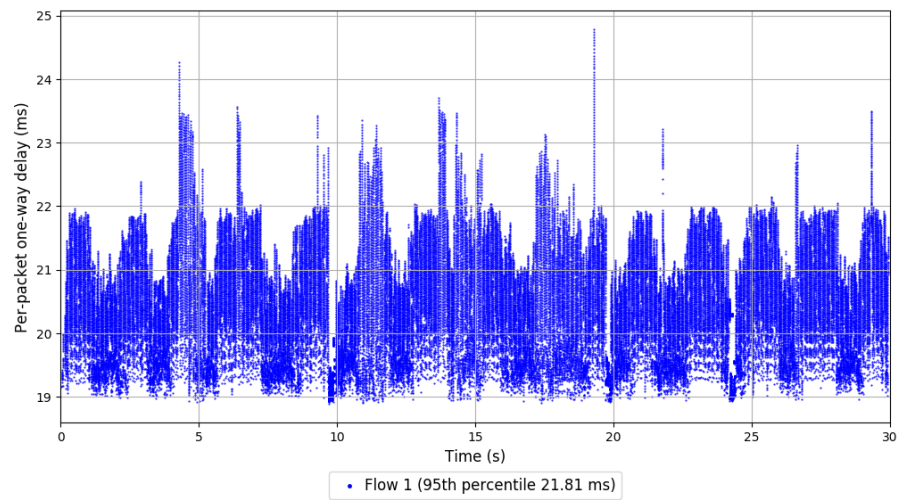
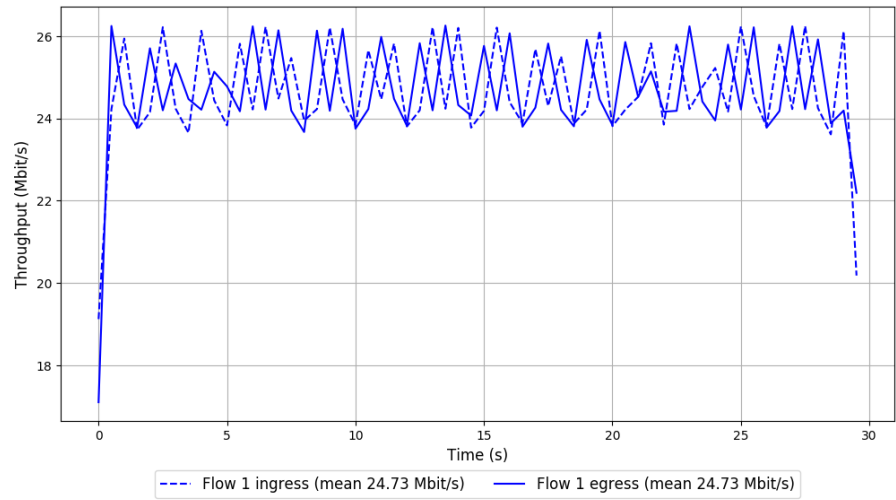


Run 8: Statistics of Sprout

Start at: 2017-11-30 14:22:25
End at: 2017-11-30 14:22:55
Local clock offset: 0.102 ms
Remote clock offset: -1.492 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 21.810 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.73 Mbit/s
95th percentile per-packet one-way delay: 21.810 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2017-11-30 14:41:00

End at: 2017-11-30 14:41:30

Local clock offset: 0.012 ms

Remote clock offset: -1.91 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.74 Mbit/s

95th percentile per-packet one-way delay: 22.238 ms

Loss rate: 0.00%

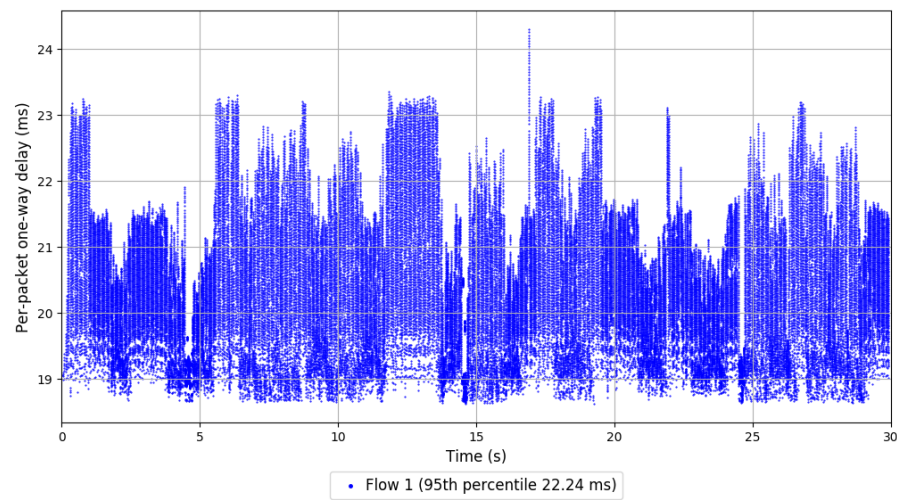
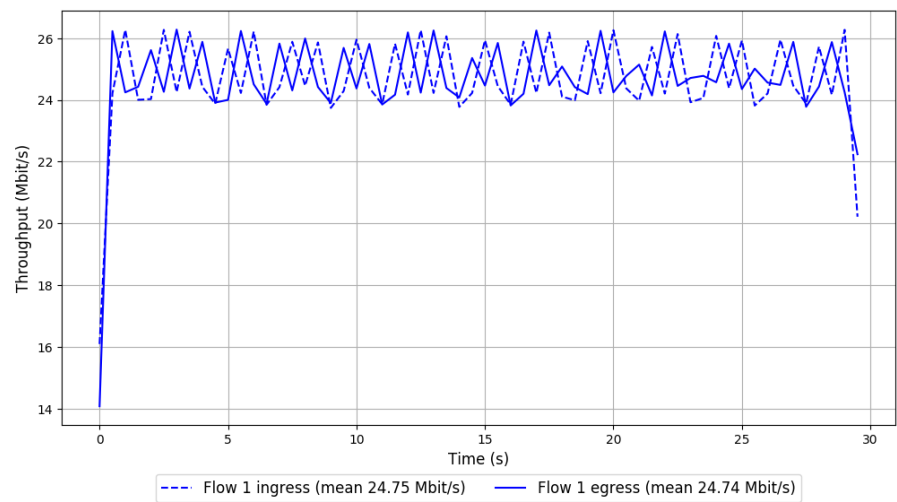
-- Flow 1:

Average throughput: 24.74 Mbit/s

95th percentile per-packet one-way delay: 22.238 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

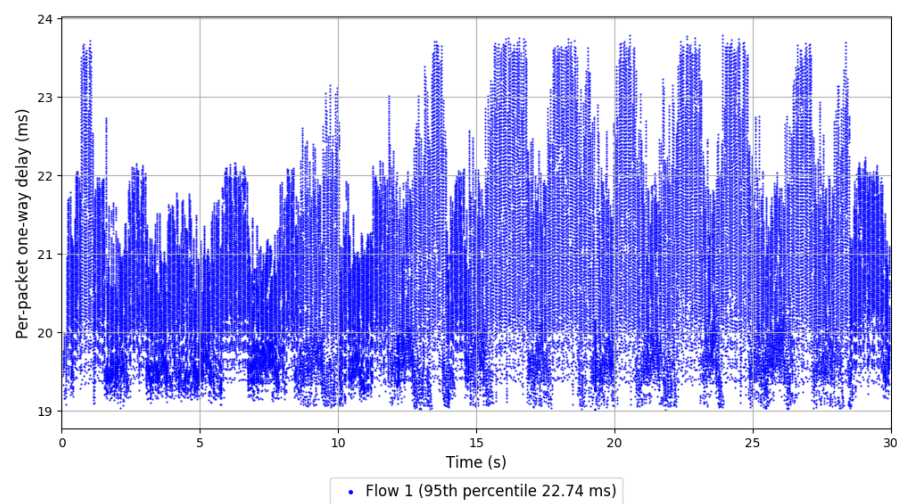
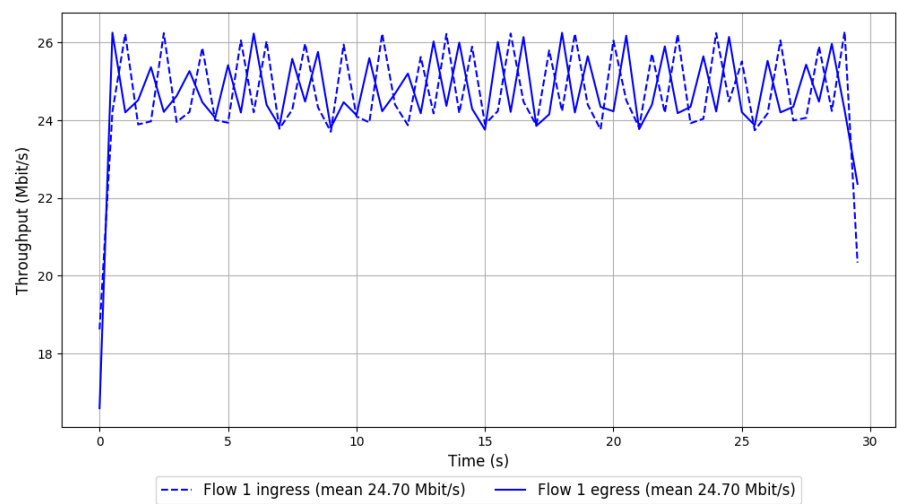


Run 10: Statistics of Sprout

Start at: 2017-11-30 14:59:40
End at: 2017-11-30 15:00:10
Local clock offset: -0.116 ms
Remote clock offset: -1.818 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.743 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.743 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

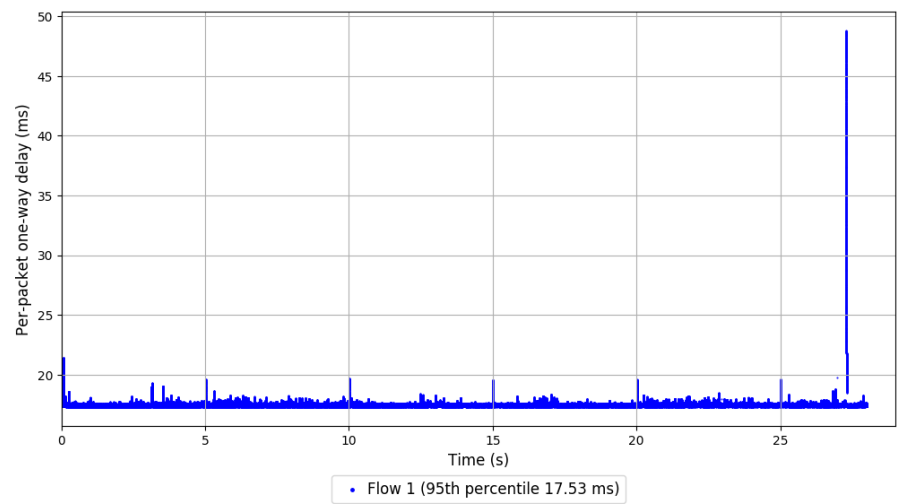
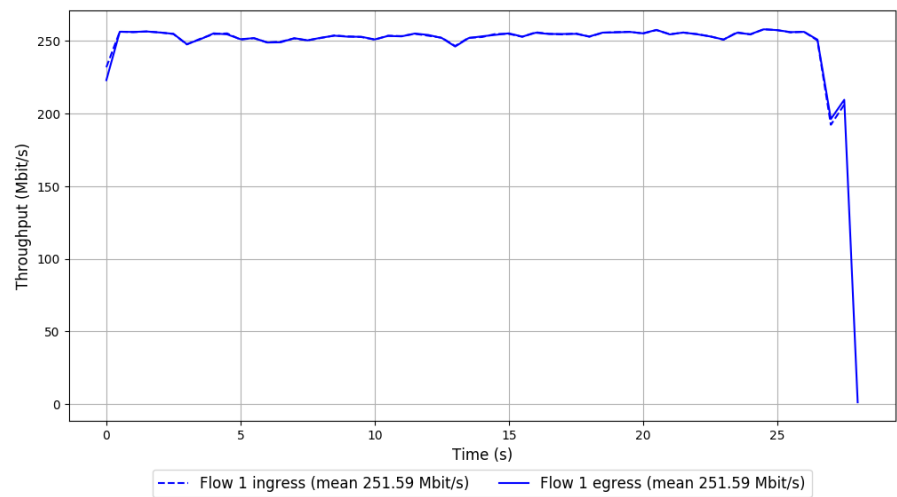


Run 1: Statistics of TaoVA-100x

Start at: 2017-11-30 12:02:01
End at: 2017-11-30 12:02:31
Local clock offset: -0.051 ms
Remote clock offset: -1.345 ms

Below is generated by plot.py at 2017-11-30 17:05:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 251.59 Mbit/s
95th percentile per-packet one-way delay: 17.527 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.59 Mbit/s
95th percentile per-packet one-way delay: 17.527 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-30 12:20:48

End at: 2017-11-30 12:21:18

Local clock offset: 0.096 ms

Remote clock offset: -1.784 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.85 Mbit/s

95th percentile per-packet one-way delay: 19.124 ms

Loss rate: 0.01%

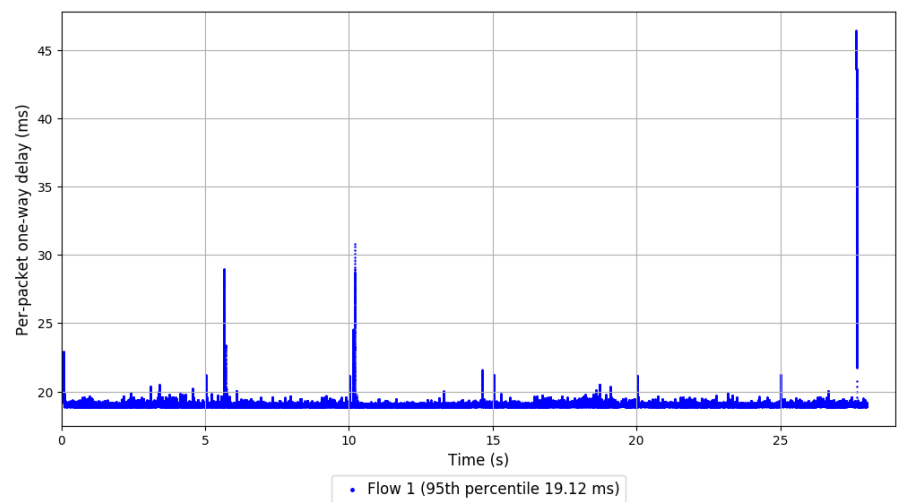
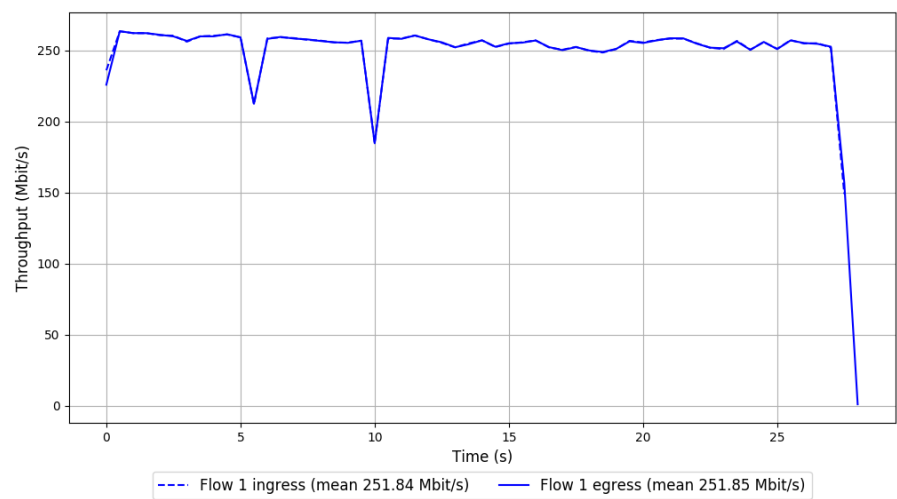
-- Flow 1:

Average throughput: 251.85 Mbit/s

95th percentile per-packet one-way delay: 19.124 ms

Loss rate: 0.01%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-30 12:39:35

End at: 2017-11-30 12:40:05

Local clock offset: 0.087 ms

Remote clock offset: -1.802 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.85 Mbit/s

95th percentile per-packet one-way delay: 18.805 ms

Loss rate: 0.01%

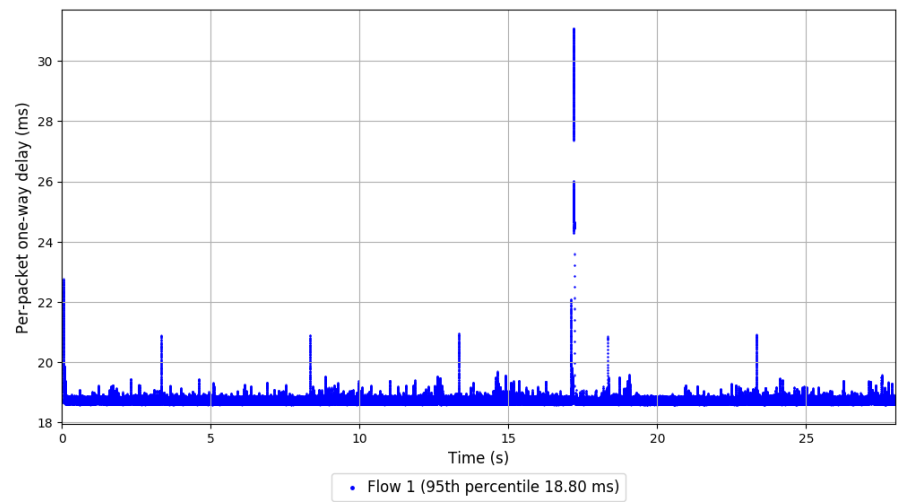
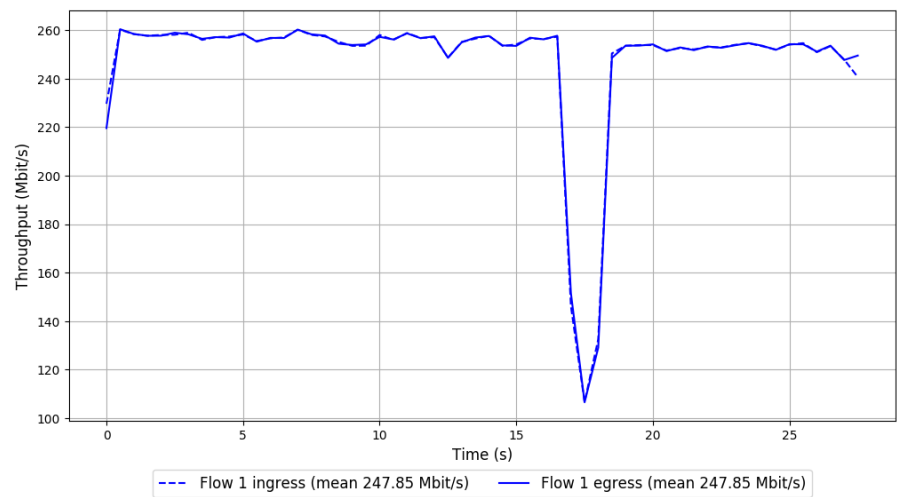
-- Flow 1:

Average throughput: 247.85 Mbit/s

95th percentile per-packet one-way delay: 18.805 ms

Loss rate: 0.01%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-30 12:58:17

End at: 2017-11-30 12:58:47

Local clock offset: 0.08 ms

Remote clock offset: -1.979 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 253.92 Mbit/s

95th percentile per-packet one-way delay: 19.037 ms

Loss rate: 0.05%

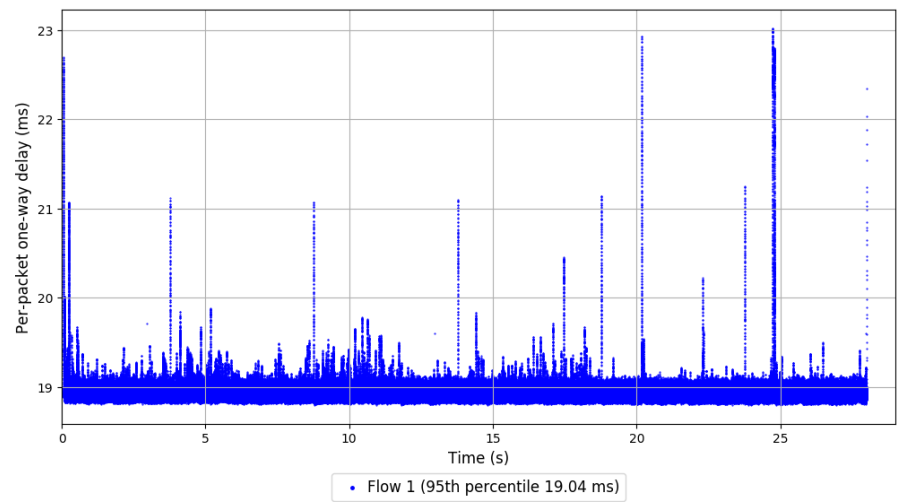
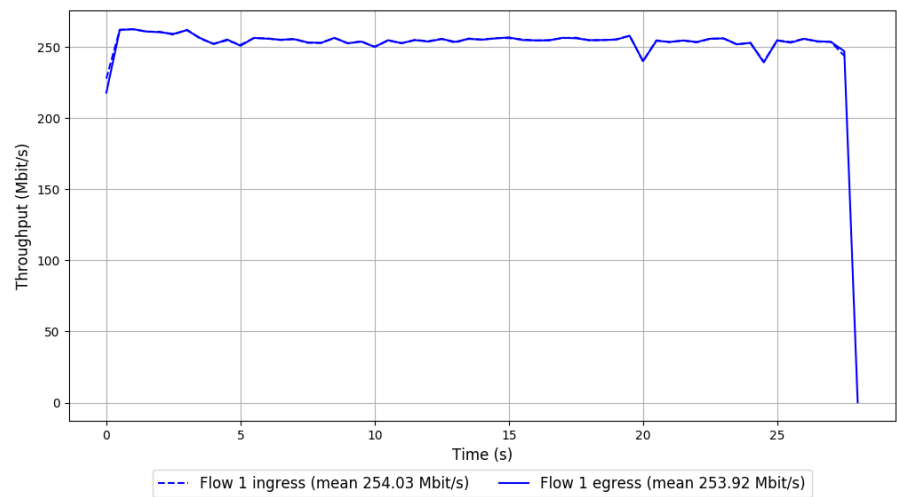
-- Flow 1:

Average throughput: 253.92 Mbit/s

95th percentile per-packet one-way delay: 19.037 ms

Loss rate: 0.05%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-11-30 13:17:02

End at: 2017-11-30 13:17:32

Local clock offset: 0.003 ms

Remote clock offset: -1.61 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.04 Mbit/s

95th percentile per-packet one-way delay: 19.176 ms

Loss rate: 0.00%

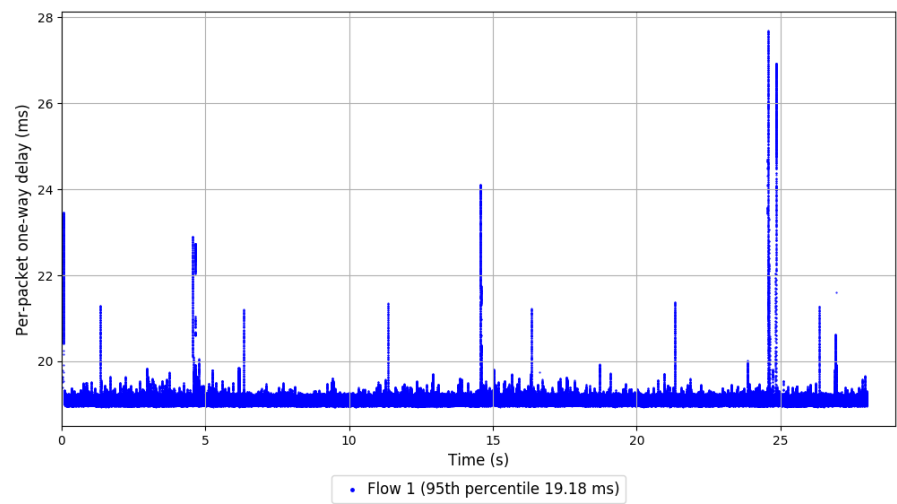
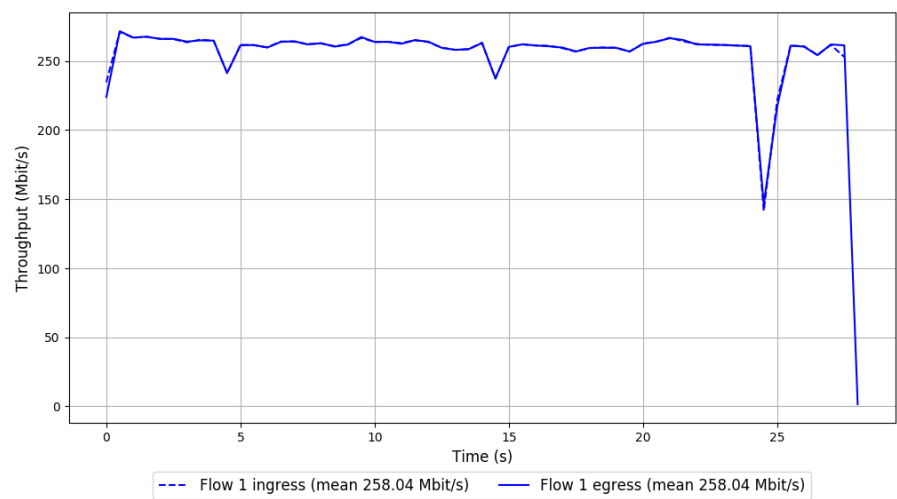
-- Flow 1:

Average throughput: 258.04 Mbit/s

95th percentile per-packet one-way delay: 19.176 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-30 13:35:22

End at: 2017-11-30 13:35:52

Local clock offset: 0.06 ms

Remote clock offset: -1.522 ms

Below is generated by plot.py at 2017-11-30 17:05:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.36 Mbit/s

95th percentile per-packet one-way delay: 18.891 ms

Loss rate: 0.00%

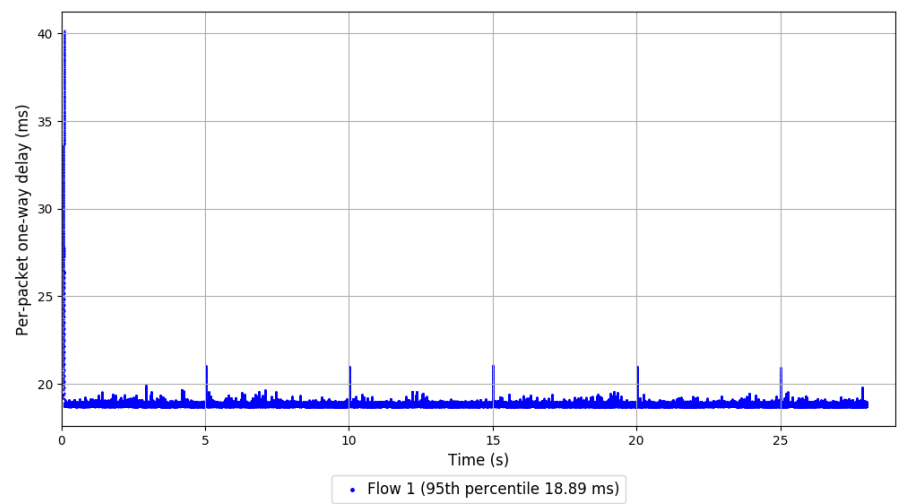
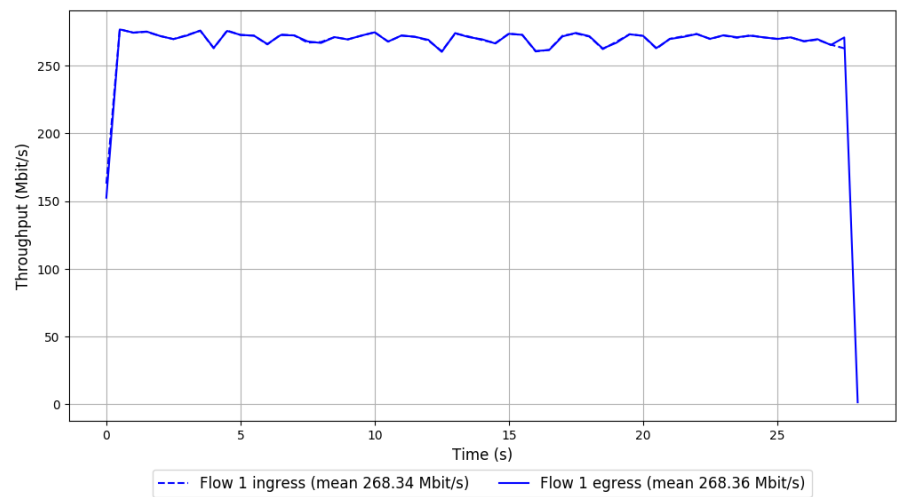
-- Flow 1:

Average throughput: 268.36 Mbit/s

95th percentile per-packet one-way delay: 18.891 ms

Loss rate: 0.00%

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

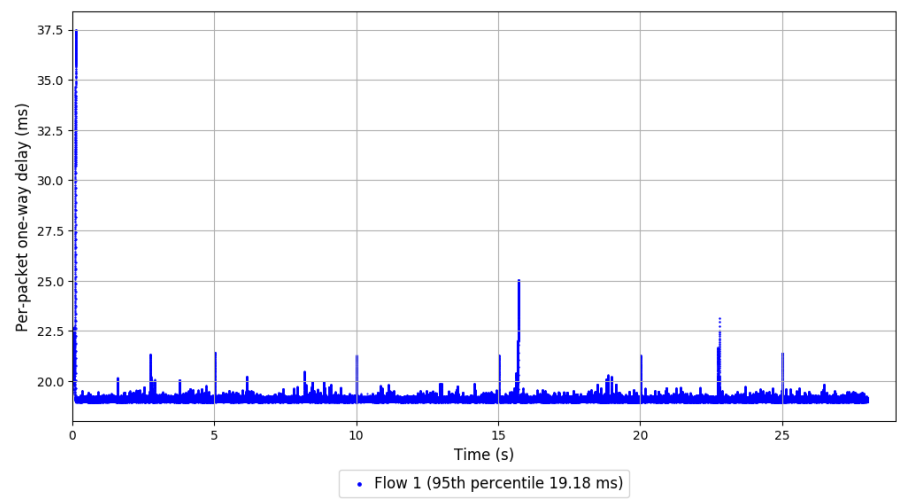
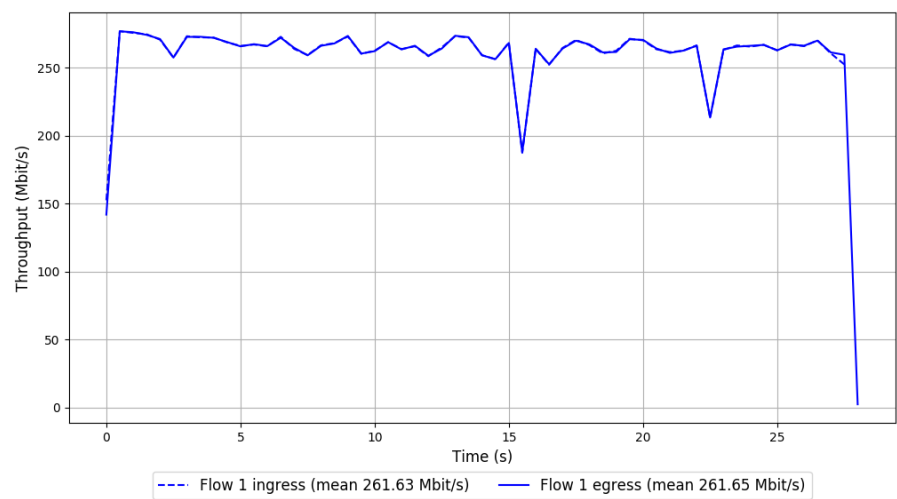


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-30 13:54:15
End at: 2017-11-30 13:54:45
Local clock offset: 0.066 ms
Remote clock offset: -1.545 ms

Below is generated by plot.py at 2017-11-30 17:10:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 261.65 Mbit/s
95th percentile per-packet one-way delay: 19.184 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.65 Mbit/s
95th percentile per-packet one-way delay: 19.184 ms
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-30 14:13:13

End at: 2017-11-30 14:13:43

Local clock offset: 0.128 ms

Remote clock offset: -1.482 ms

Below is generated by plot.py at 2017-11-30 17:10:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.88 Mbit/s

95th percentile per-packet one-way delay: 19.038 ms

Loss rate: 0.01%

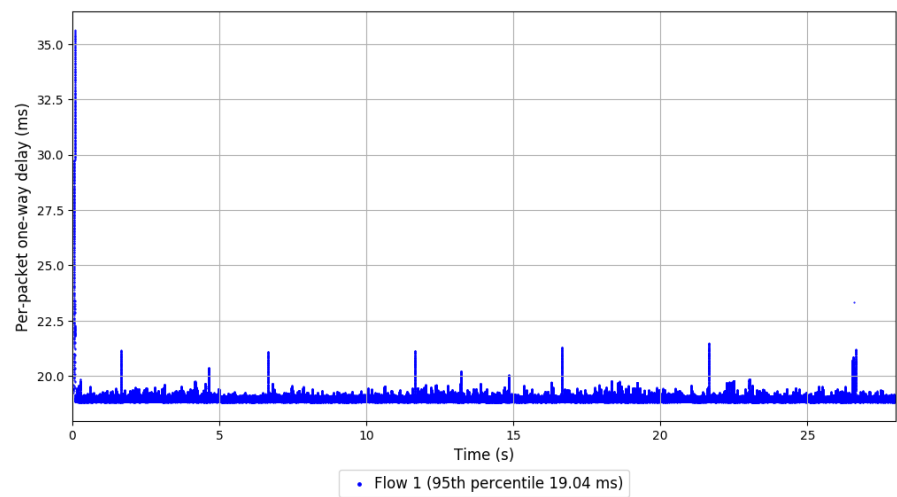
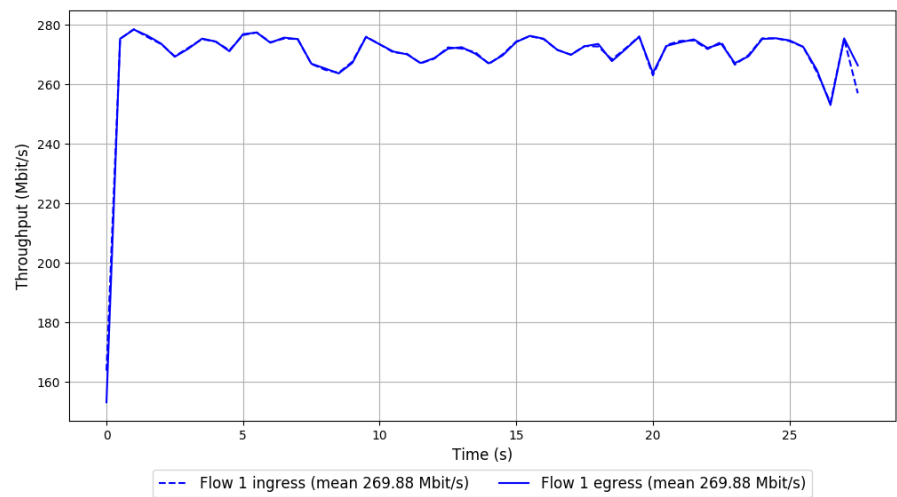
-- Flow 1:

Average throughput: 269.88 Mbit/s

95th percentile per-packet one-way delay: 19.038 ms

Loss rate: 0.01%

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

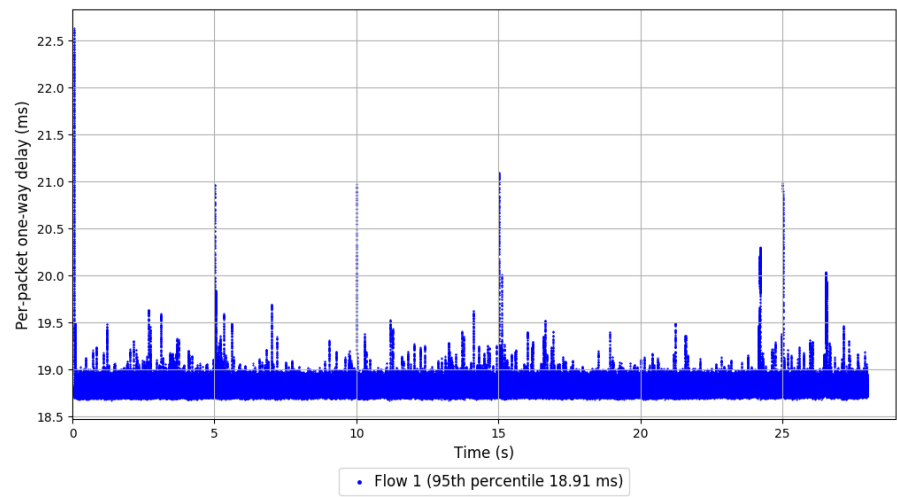
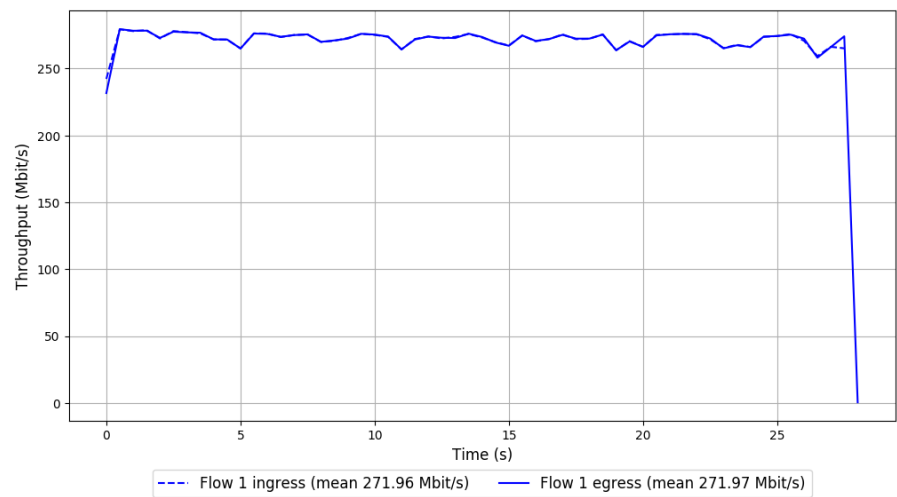


Run 9: Statistics of TaoVA-100x

Start at: 2017-11-30 14:31:48
End at: 2017-11-30 14:32:18
Local clock offset: -0.026 ms
Remote clock offset: -1.717 ms

Below is generated by plot.py at 2017-11-30 17:10:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.97 Mbit/s
95th percentile per-packet one-way delay: 18.913 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 271.97 Mbit/s
95th percentile per-packet one-way delay: 18.913 ms
Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-11-30 14:50:28

End at: 2017-11-30 14:50:58

Local clock offset: 0.001 ms

Remote clock offset: -1.858 ms

Below is generated by plot.py at 2017-11-30 17:10:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.38 Mbit/s

95th percentile per-packet one-way delay: 19.101 ms

Loss rate: 0.01%

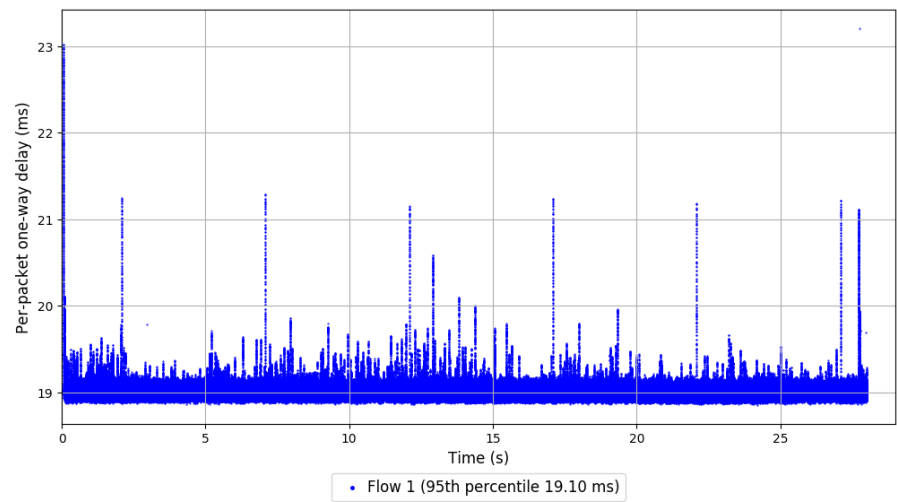
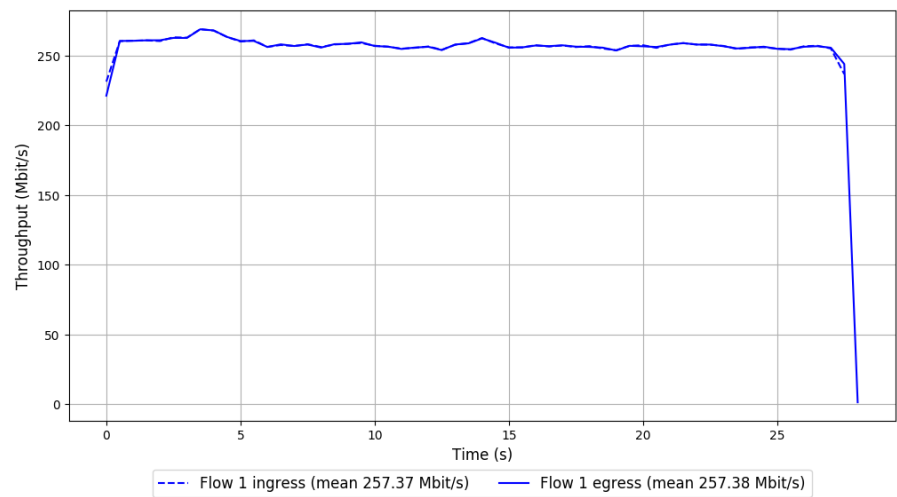
-- Flow 1:

Average throughput: 257.38 Mbit/s

95th percentile per-packet one-way delay: 19.101 ms

Loss rate: 0.01%

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

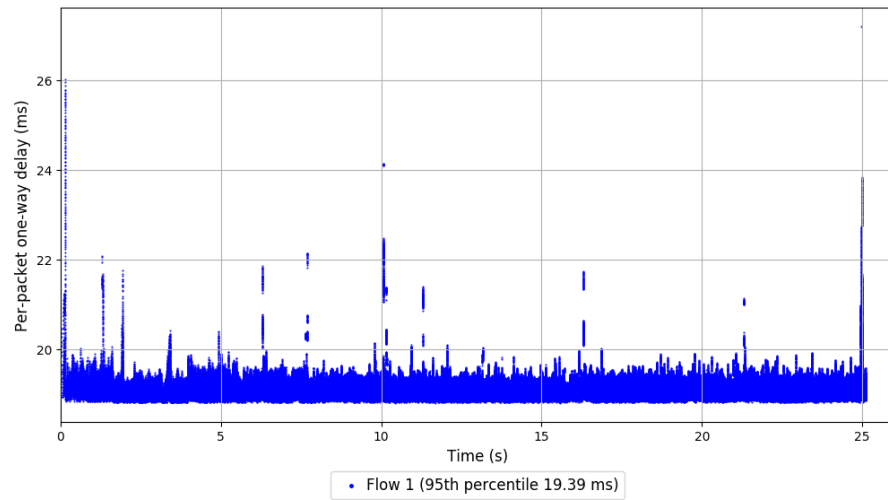
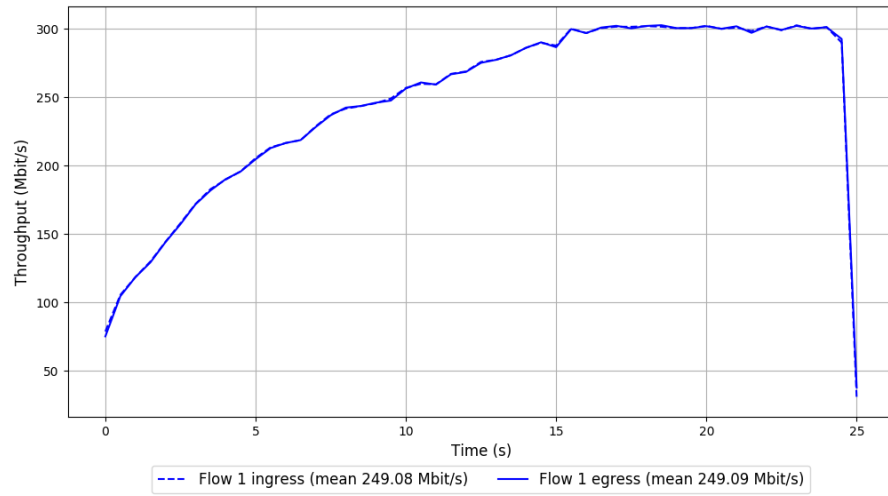


Run 1: Statistics of TCP Vegas

Start at: 2017-11-30 12:00:43
End at: 2017-11-30 12:01:13
Local clock offset: 0.019 ms
Remote clock offset: -1.354 ms

Below is generated by plot.py at 2017-11-30 17:10:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 249.09 Mbit/s
95th percentile per-packet one-way delay: 19.389 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 249.09 Mbit/s
95th percentile per-packet one-way delay: 19.389 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link

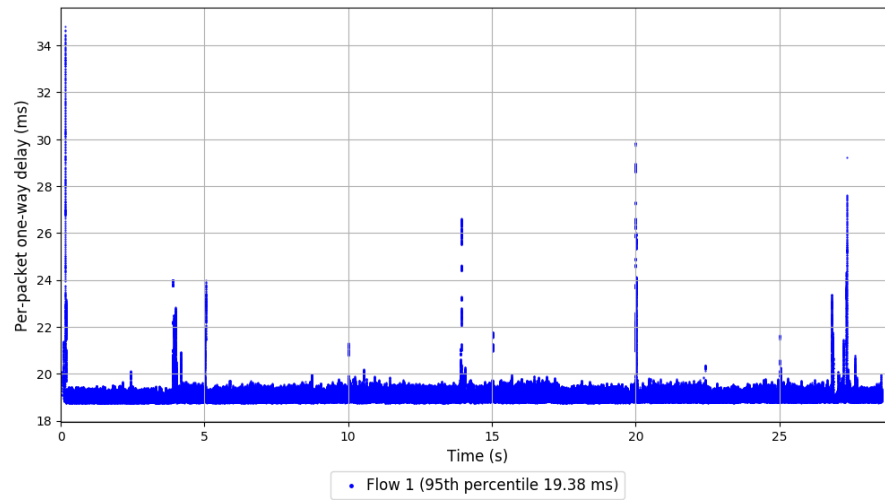
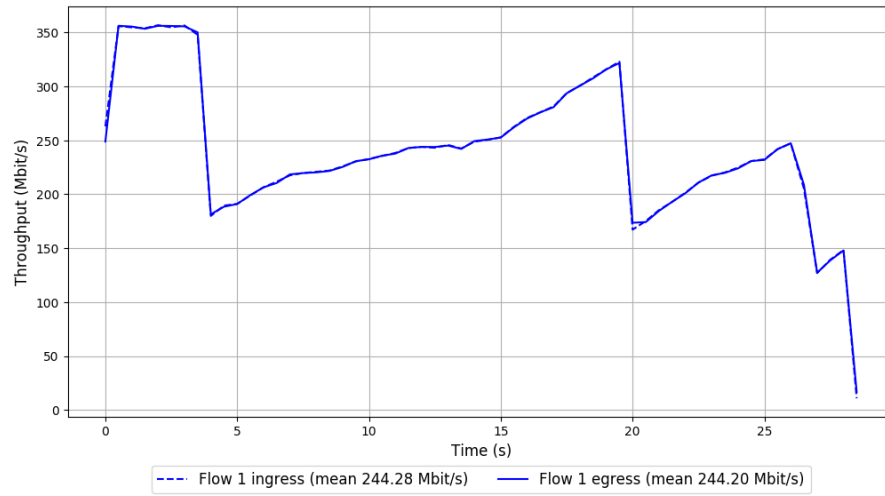


Run 2: Statistics of TCP Vegas

Start at: 2017-11-30 12:19:28
End at: 2017-11-30 12:19:58
Local clock offset: -0.005 ms
Remote clock offset: -1.742 ms

Below is generated by plot.py at 2017-11-30 17:10:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 244.20 Mbit/s
95th percentile per-packet one-way delay: 19.379 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 244.20 Mbit/s
95th percentile per-packet one-way delay: 19.379 ms
Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

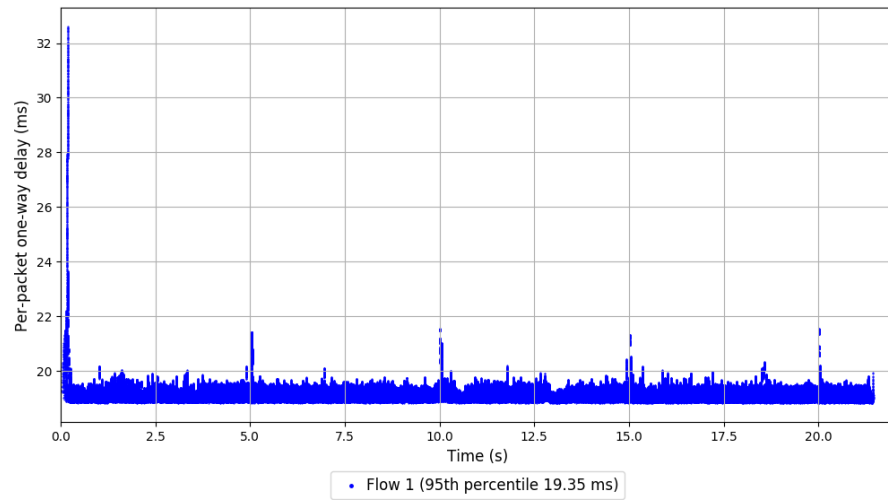
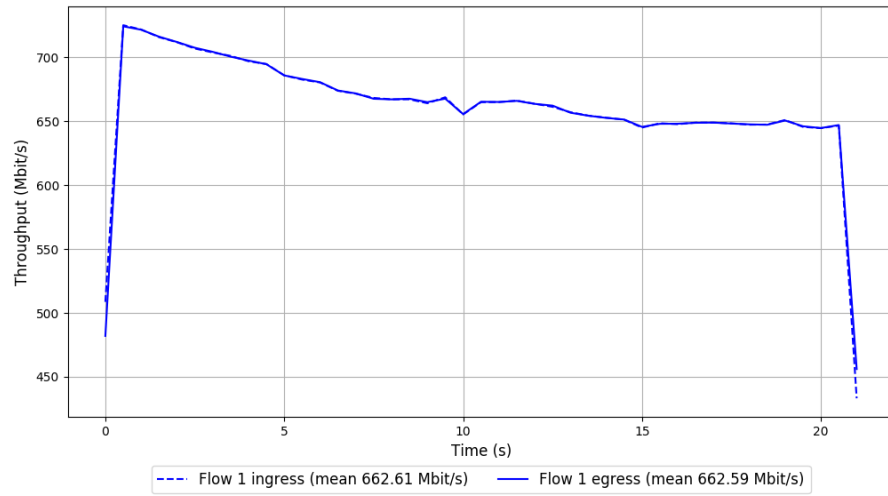
Start at: 2017-11-30 12:38:06

End at: 2017-11-30 12:38:36

Local clock offset: 0.096 ms

Remote clock offset: -1.82 ms

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

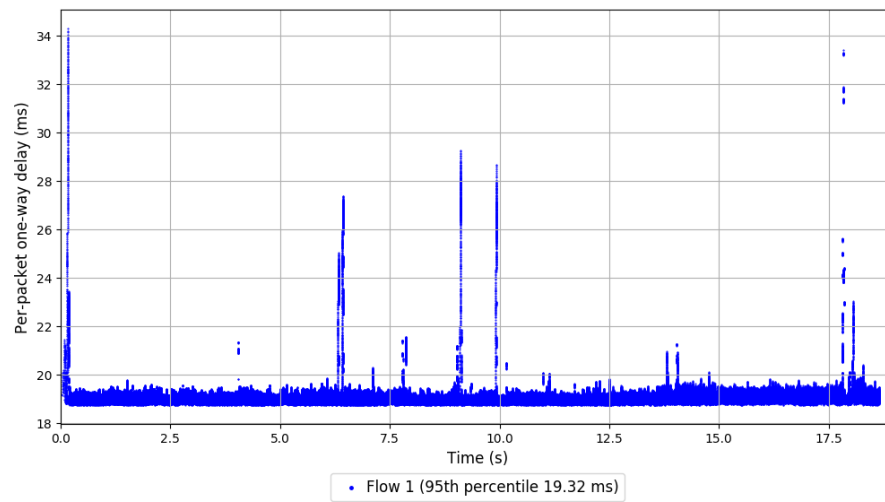
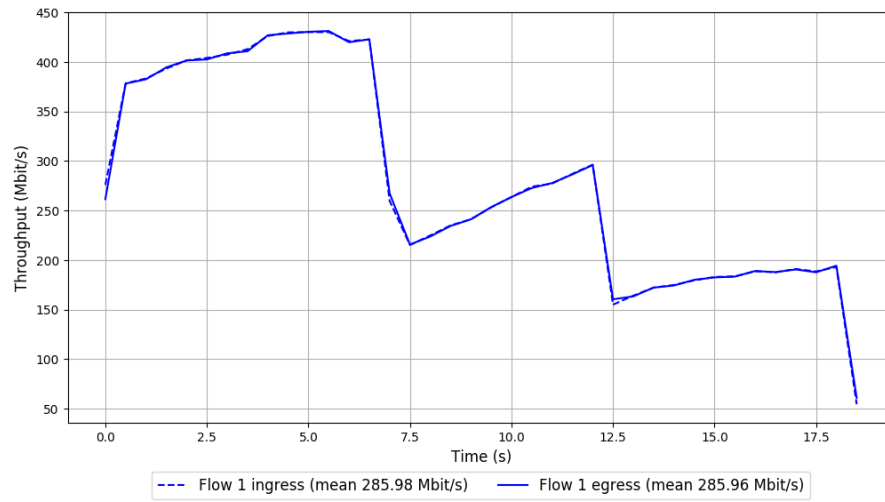
Start at: 2017-11-30 12:57:00

End at: 2017-11-30 12:57:30

Local clock offset: 0.119 ms

Remote clock offset: -2.007 ms

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

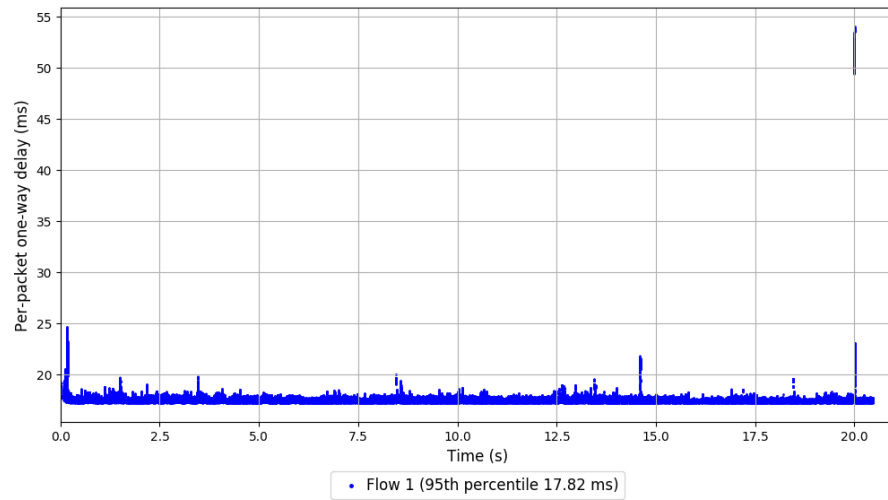
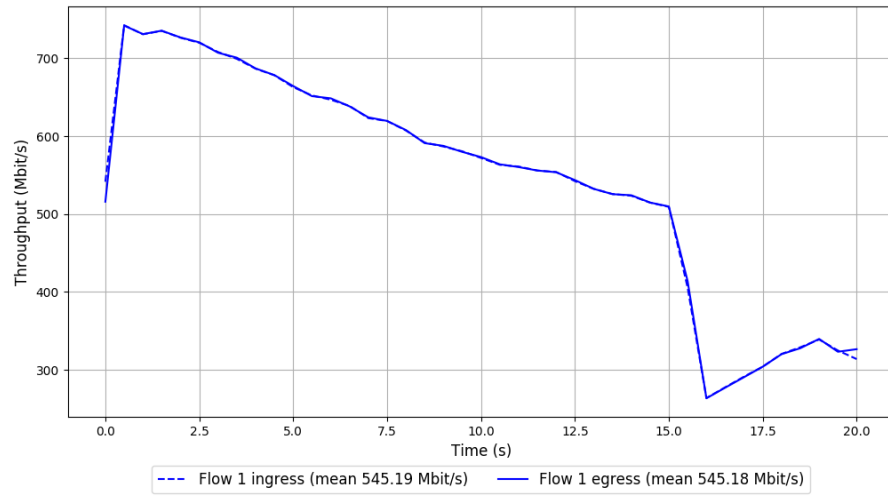
Start at: 2017-11-30 13:15:38

End at: 2017-11-30 13:16:08

Local clock offset: 0.095 ms

Remote clock offset: -1.658 ms

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

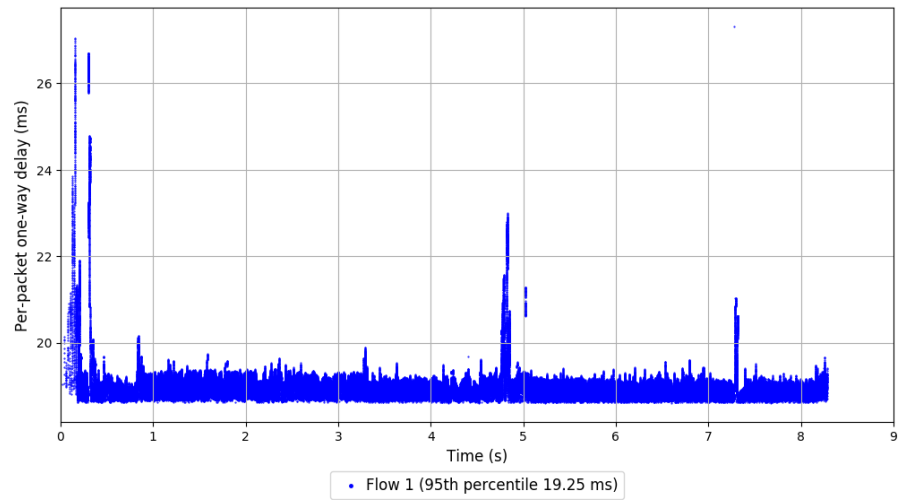
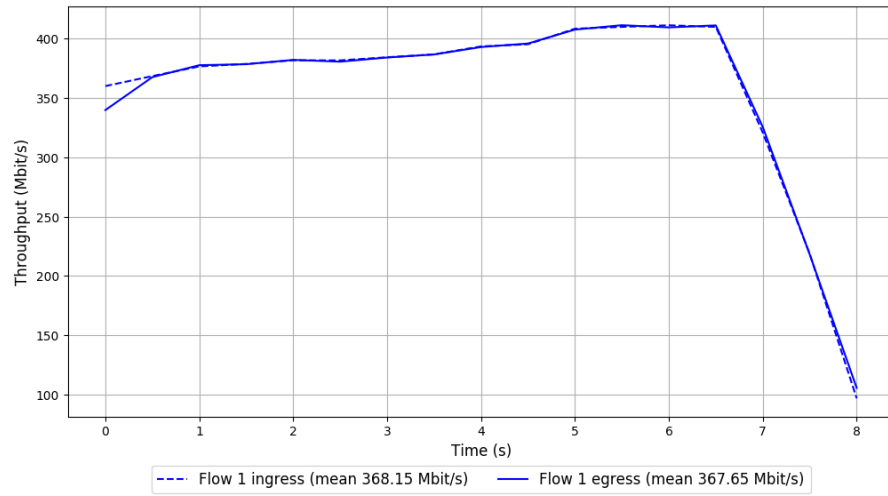
Start at: 2017-11-30 13:34:08

End at: 2017-11-30 13:34:38

Local clock offset: 0.13 ms

Remote clock offset: -1.511 ms

Run 6: Report of TCP Vegas — Data Link

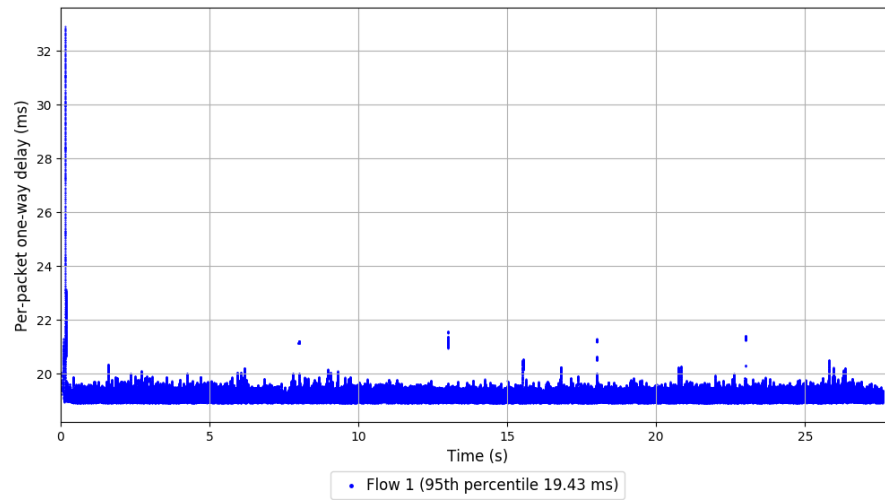
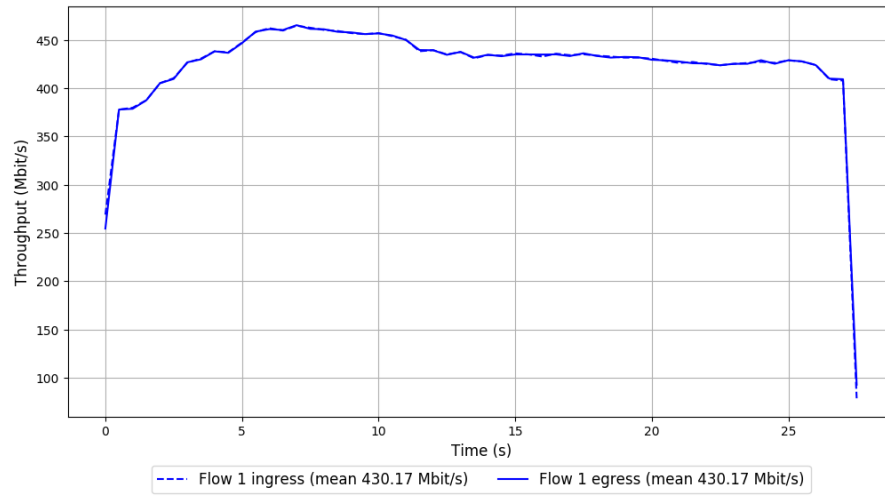


Run 7: Statistics of TCP Vegas

Start at: 2017-11-30 13:52:49
End at: 2017-11-30 13:53:19
Local clock offset: 0.136 ms
Remote clock offset: -1.526 ms

Below is generated by plot.py at 2017-11-30 17:13:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 430.17 Mbit/s
95th percentile per-packet one-way delay: 19.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 430.17 Mbit/s
95th percentile per-packet one-way delay: 19.428 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

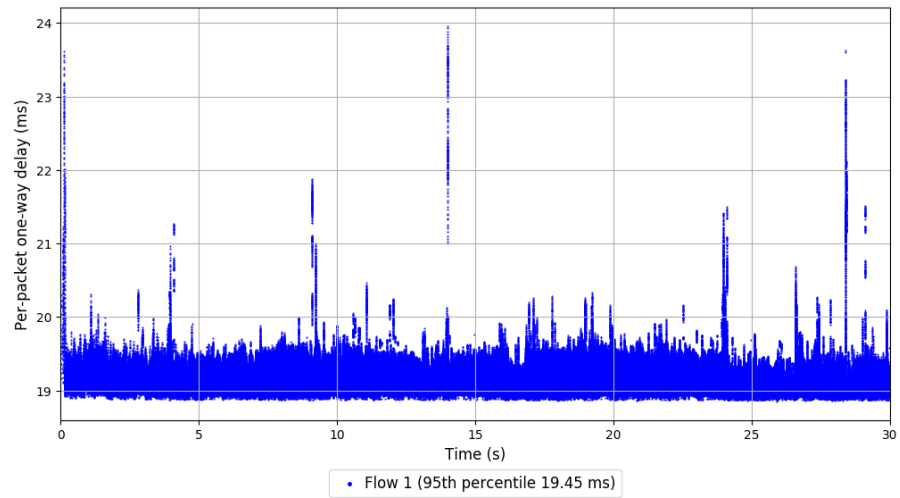
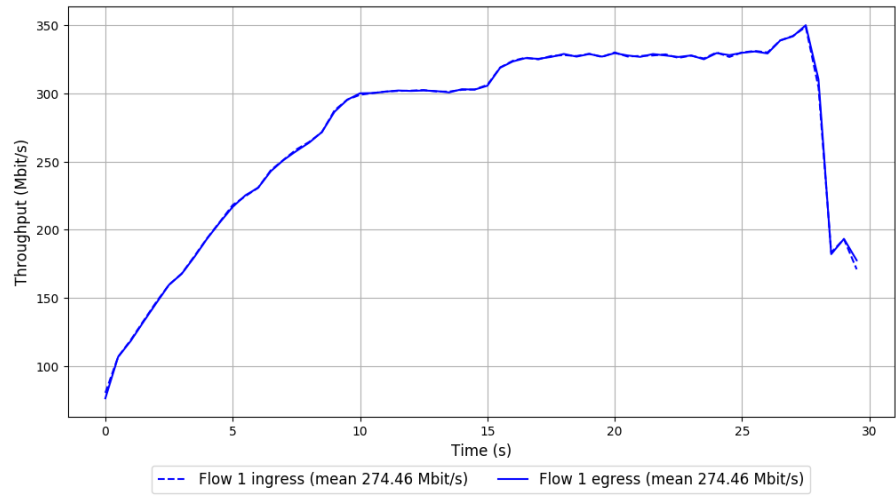


Run 8: Statistics of TCP Vegas

Start at: 2017-11-30 14:11:51
End at: 2017-11-30 14:12:21
Local clock offset: 0.049 ms
Remote clock offset: -1.504 ms

Below is generated by plot.py at 2017-11-30 17:13:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 274.46 Mbit/s
95th percentile per-packet one-way delay: 19.455 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 274.46 Mbit/s
95th percentile per-packet one-way delay: 19.455 ms
Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

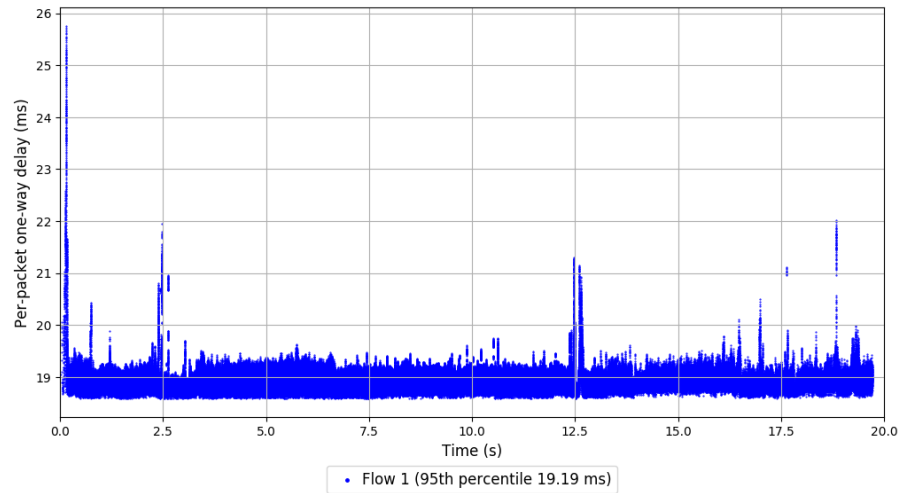
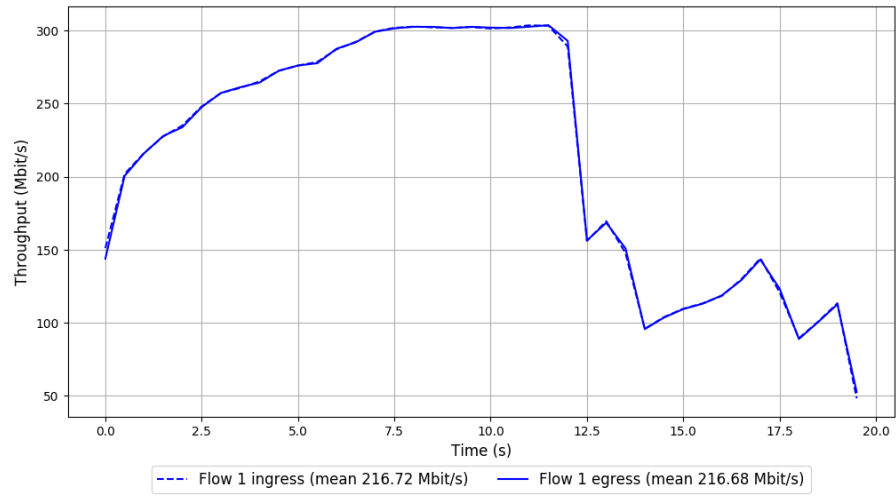
Start at: 2017-11-30 14:30:32

End at: 2017-11-30 14:31:02

Local clock offset: 0.062 ms

Remote clock offset: -1.699 ms

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

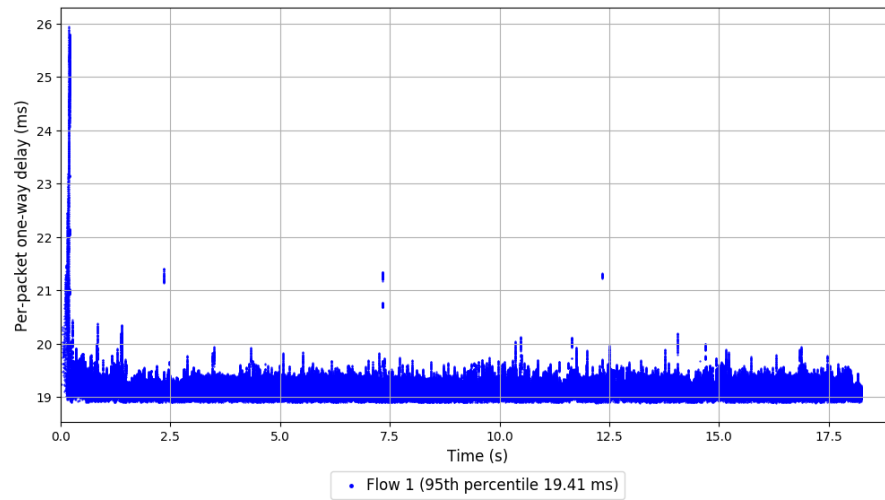
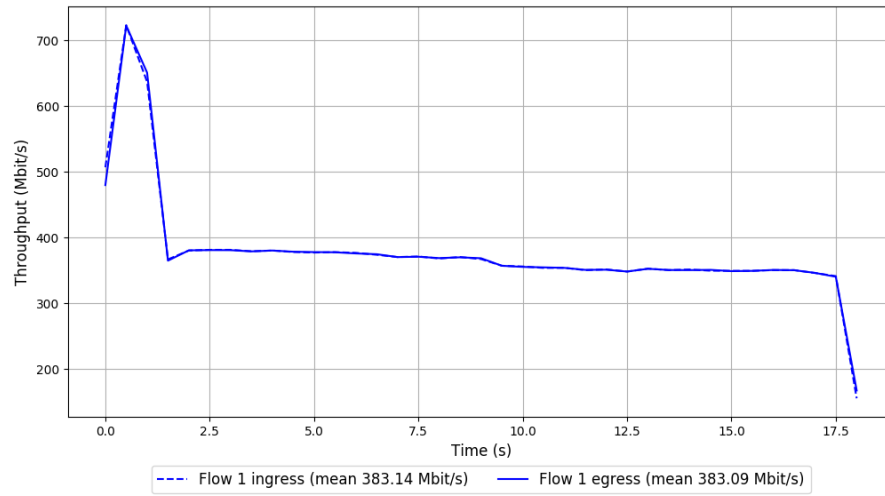
Start at: 2017-11-30 14:49:09

End at: 2017-11-30 14:49:39

Local clock offset: -0.097 ms

Remote clock offset: -1.93 ms

Run 10: Report of TCP Vegas — Data Link

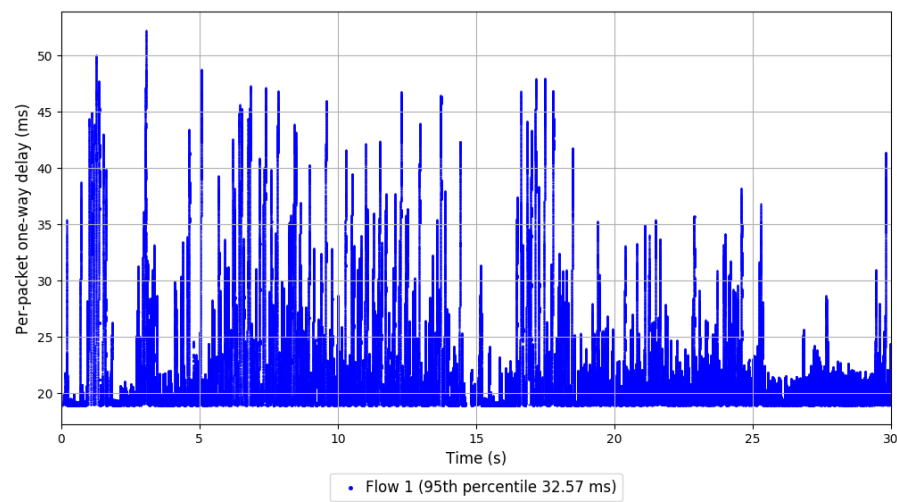
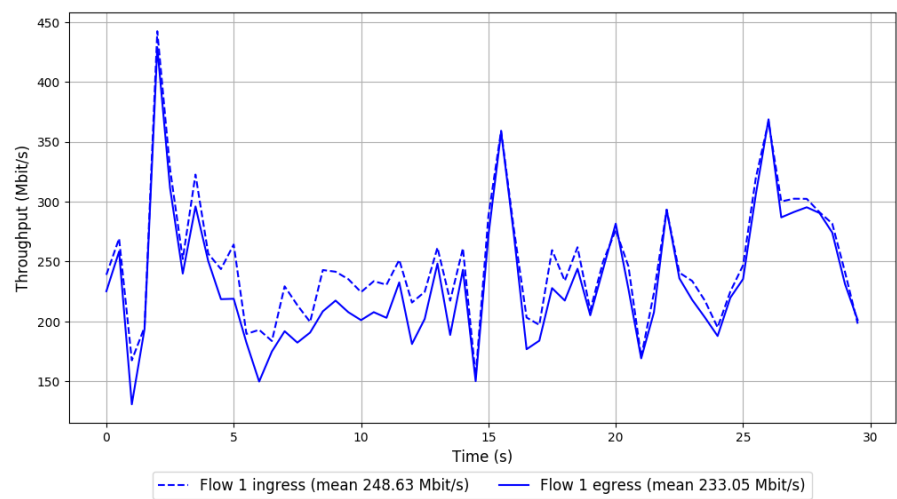


Run 1: Statistics of Verus

Start at: 2017-11-30 12:15:04
End at: 2017-11-30 12:15:34
Local clock offset: -0.015 ms
Remote clock offset: -1.685 ms

Below is generated by plot.py at 2017-11-30 17:13:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.05 Mbit/s
95th percentile per-packet one-way delay: 32.569 ms
Loss rate: 6.26%
-- Flow 1:
Average throughput: 233.05 Mbit/s
95th percentile per-packet one-way delay: 32.569 ms
Loss rate: 6.26%

Run 1: Report of Verus — Data Link

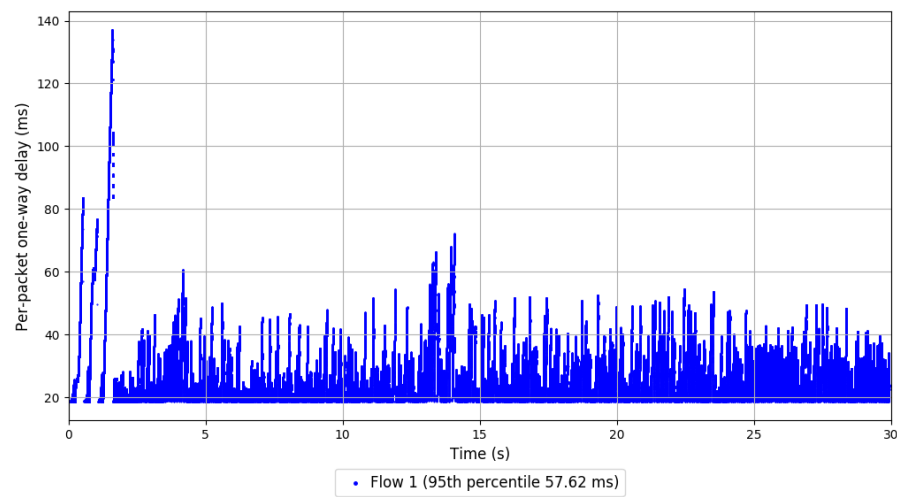
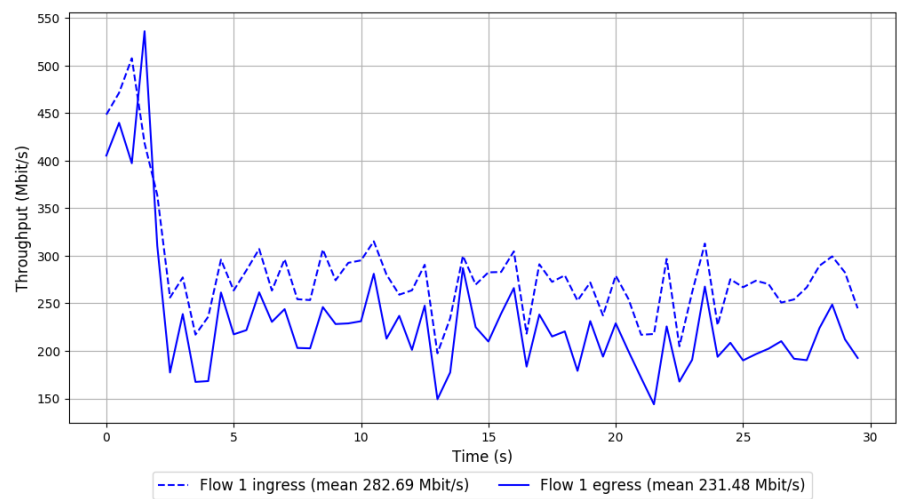


Run 2: Statistics of Verus

Start at: 2017-11-30 12:33:49
End at: 2017-11-30 12:34:19
Local clock offset: 0.102 ms
Remote clock offset: -1.727 ms

Below is generated by plot.py at 2017-11-30 17:14:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 231.48 Mbit/s
95th percentile per-packet one-way delay: 57.621 ms
Loss rate: 18.10%
-- Flow 1:
Average throughput: 231.48 Mbit/s
95th percentile per-packet one-way delay: 57.621 ms
Loss rate: 18.10%

Run 2: Report of Verus — Data Link

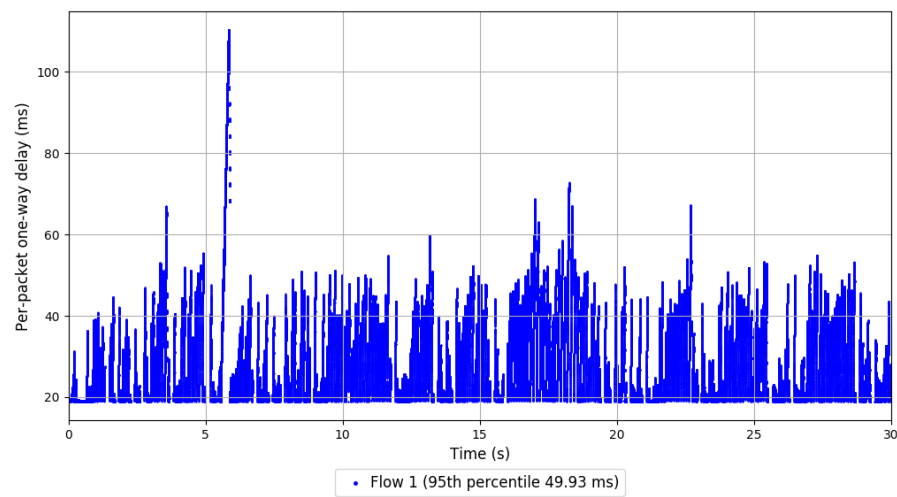
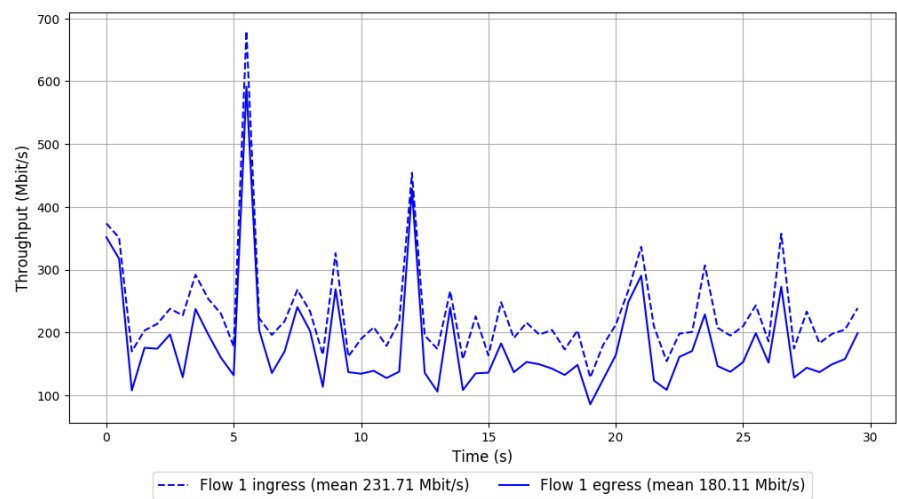


Run 3: Statistics of Verus

Start at: 2017-11-30 12:52:48
End at: 2017-11-30 12:53:18
Local clock offset: 0.008 ms
Remote clock offset: -1.915 ms

Below is generated by plot.py at 2017-11-30 17:14:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 49.931 ms
Loss rate: 22.27%
-- Flow 1:
Average throughput: 180.11 Mbit/s
95th percentile per-packet one-way delay: 49.931 ms
Loss rate: 22.27%

Run 3: Report of Verus — Data Link

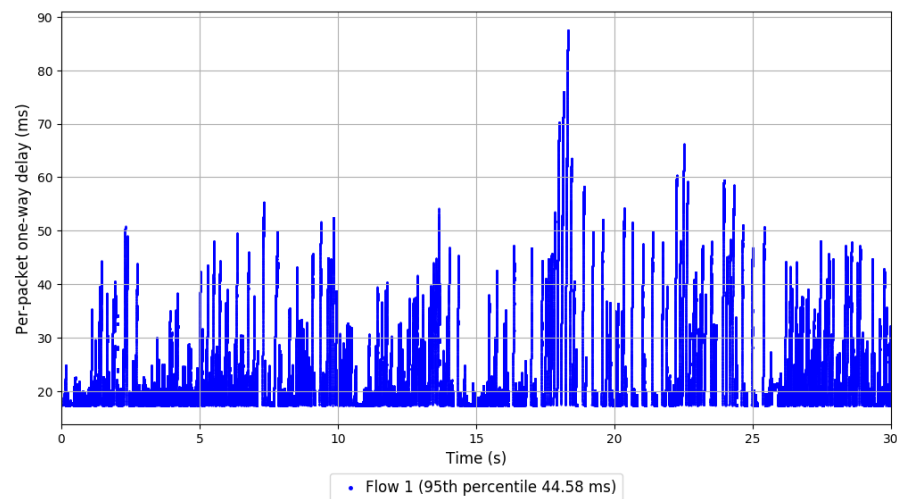
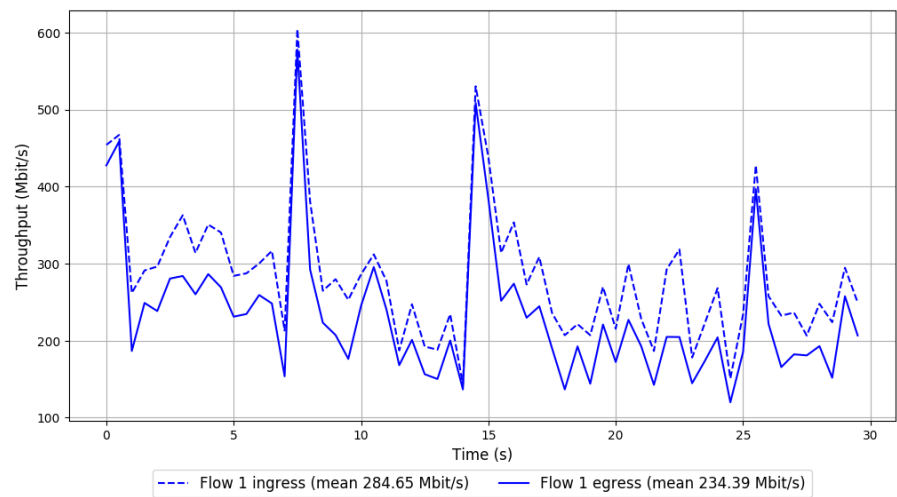


Run 4: Statistics of Verus

Start at: 2017-11-30 13:11:22
End at: 2017-11-30 13:11:52
Local clock offset: 0.014 ms
Remote clock offset: -1.709 ms

Below is generated by plot.py at 2017-11-30 17:15:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.39 Mbit/s
95th percentile per-packet one-way delay: 44.575 ms
Loss rate: 17.65%
-- Flow 1:
Average throughput: 234.39 Mbit/s
95th percentile per-packet one-way delay: 44.575 ms
Loss rate: 17.65%

Run 4: Report of Verus — Data Link

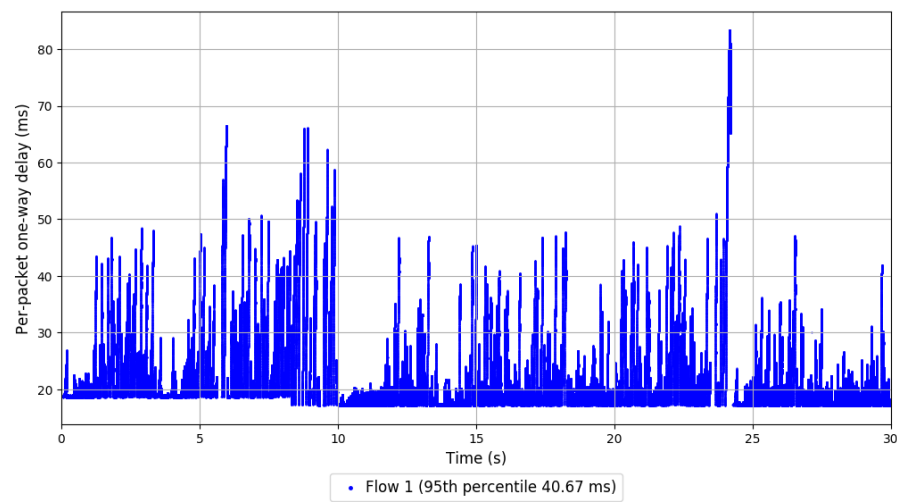
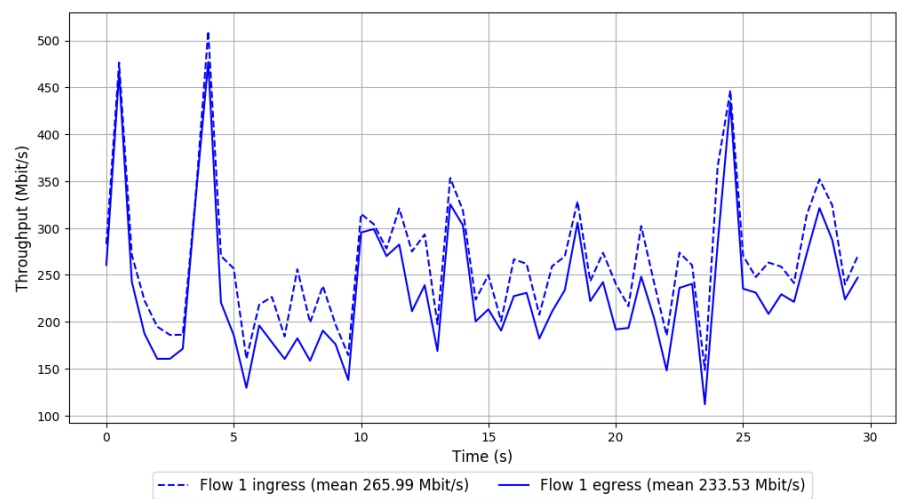


Run 5: Statistics of Verus

Start at: 2017-11-30 13:30:03
End at: 2017-11-30 13:30:33
Local clock offset: 0.13 ms
Remote clock offset: -1.626 ms

Below is generated by plot.py at 2017-11-30 17:15:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.53 Mbit/s
95th percentile per-packet one-way delay: 40.667 ms
Loss rate: 12.21%
-- Flow 1:
Average throughput: 233.53 Mbit/s
95th percentile per-packet one-way delay: 40.667 ms
Loss rate: 12.21%

Run 5: Report of Verus — Data Link

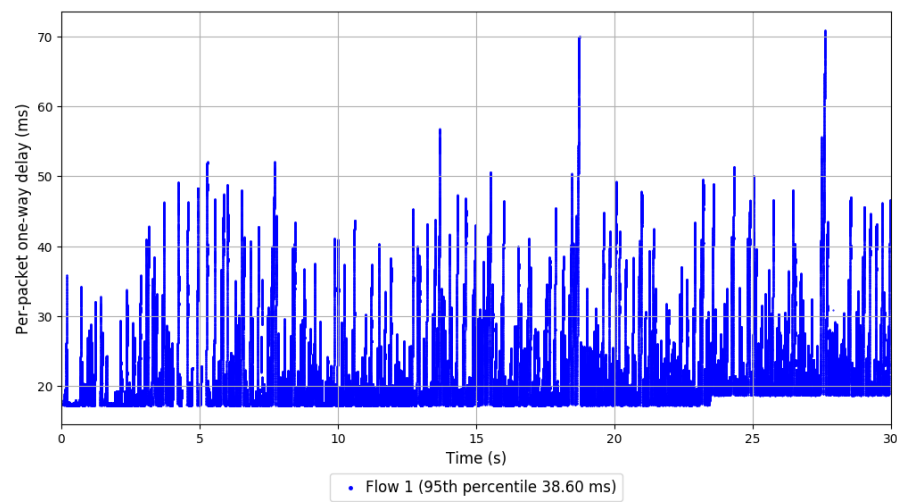
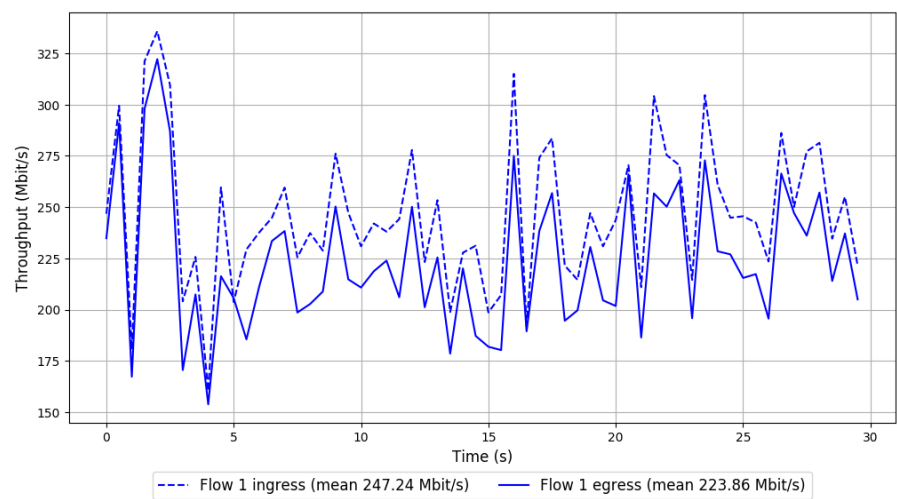


Run 6: Statistics of Verus

Start at: 2017-11-30 13:48:25
End at: 2017-11-30 13:48:55
Local clock offset: 0.14 ms
Remote clock offset: -1.541 ms

Below is generated by plot.py at 2017-11-30 17:16:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 223.86 Mbit/s
95th percentile per-packet one-way delay: 38.603 ms
Loss rate: 9.41%
-- Flow 1:
Average throughput: 223.86 Mbit/s
95th percentile per-packet one-way delay: 38.603 ms
Loss rate: 9.41%

Run 6: Report of Verus — Data Link

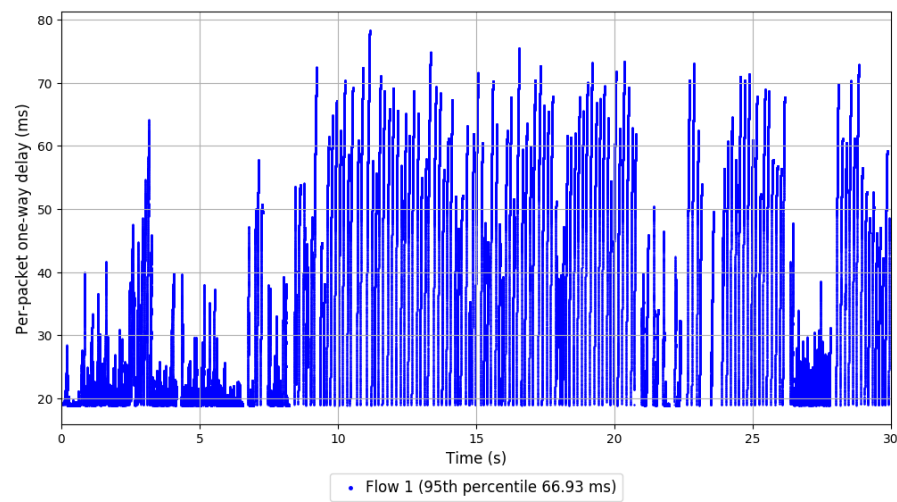
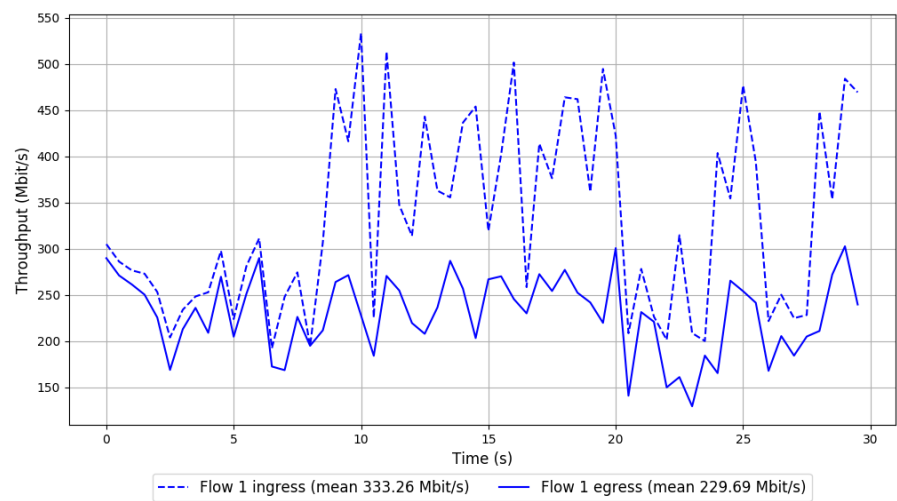


Run 7: Statistics of Verus

Start at: 2017-11-30 14:07:27
End at: 2017-11-30 14:07:57
Local clock offset: 0.064 ms
Remote clock offset: -1.547 ms

Below is generated by plot.py at 2017-11-30 17:17:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.69 Mbit/s
95th percentile per-packet one-way delay: 66.932 ms
Loss rate: 31.07%
-- Flow 1:
Average throughput: 229.69 Mbit/s
95th percentile per-packet one-way delay: 66.932 ms
Loss rate: 31.07%

Run 7: Report of Verus — Data Link

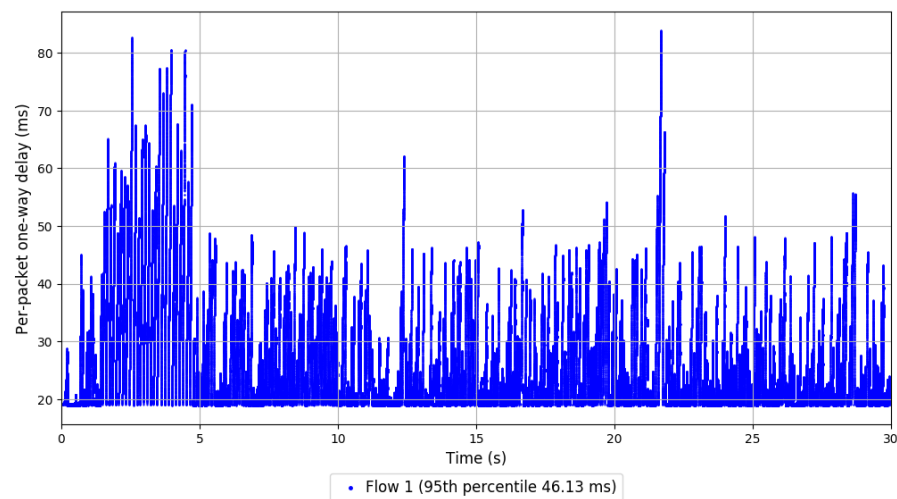
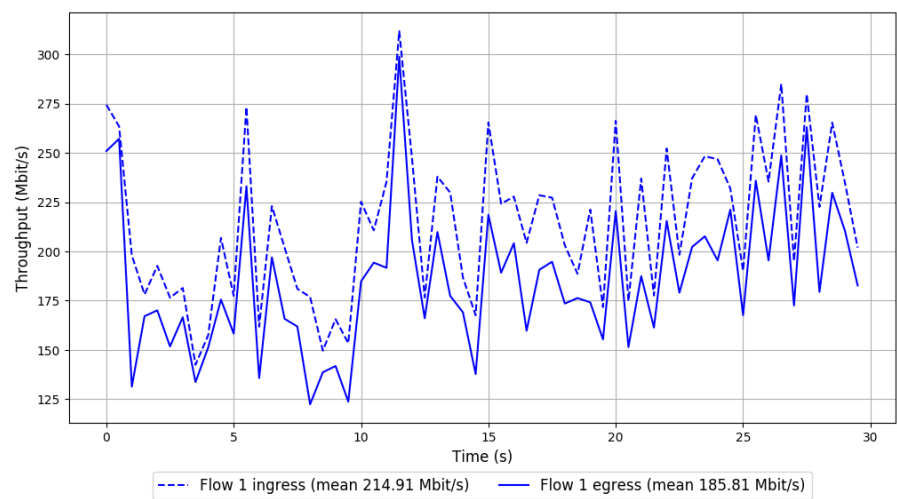


Run 8: Statistics of Verus

Start at: 2017-11-30 14:26:19
End at: 2017-11-30 14:26:49
Local clock offset: 0.104 ms
Remote clock offset: -1.547 ms

Below is generated by plot.py at 2017-11-30 17:17:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.81 Mbit/s
95th percentile per-packet one-way delay: 46.132 ms
Loss rate: 13.54%
-- Flow 1:
Average throughput: 185.81 Mbit/s
95th percentile per-packet one-way delay: 46.132 ms
Loss rate: 13.54%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2017-11-30 14:44:54

End at: 2017-11-30 14:45:24

Local clock offset: -0.077 ms

Remote clock offset: -1.97 ms

Below is generated by plot.py at 2017-11-30 17:17:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.06 Mbit/s

95th percentile per-packet one-way delay: 46.765 ms

Loss rate: 13.44%

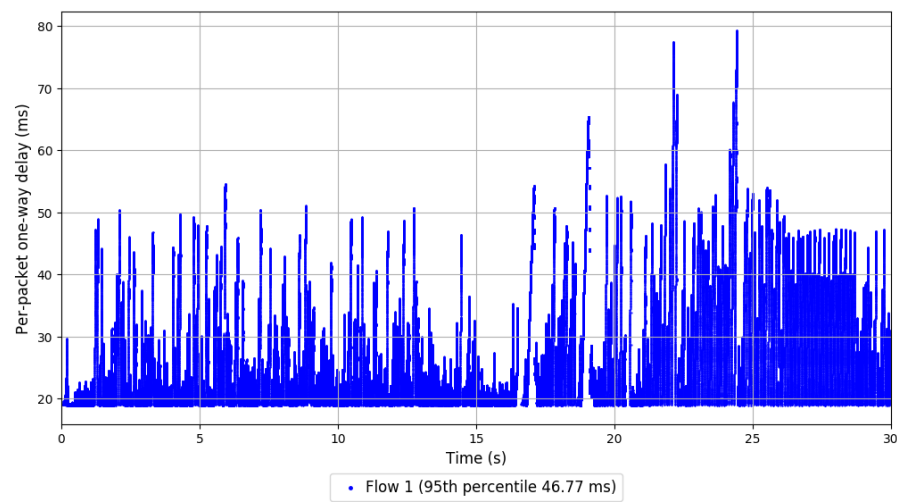
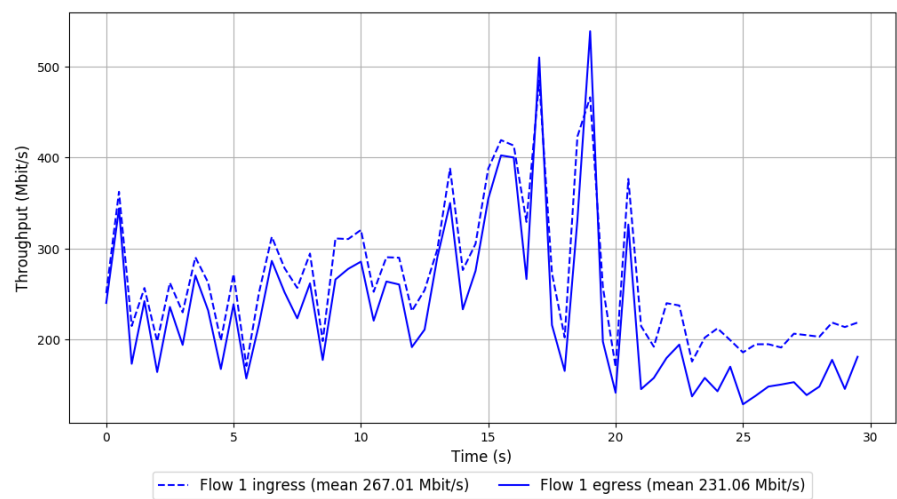
-- Flow 1:

Average throughput: 231.06 Mbit/s

95th percentile per-packet one-way delay: 46.765 ms

Loss rate: 13.44%

Run 9: Report of Verus — Data Link

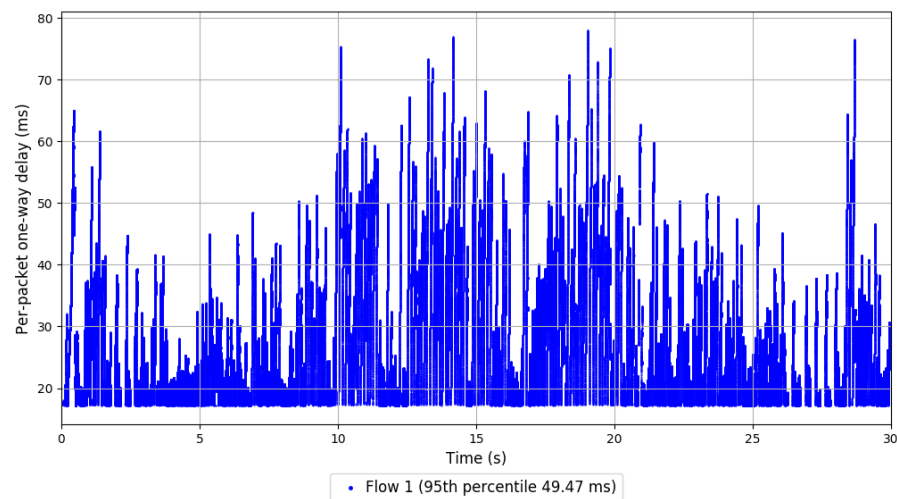
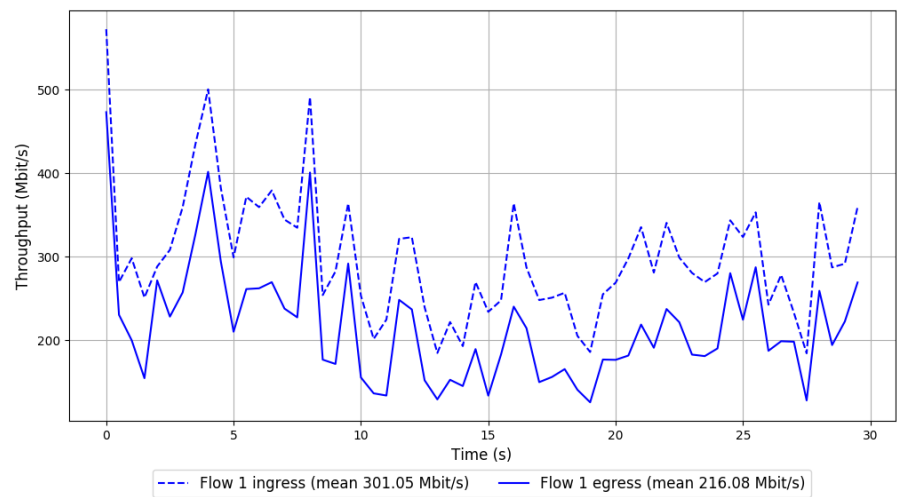


Run 10: Statistics of Verus

Start at: 2017-11-30 15:03:34
End at: 2017-11-30 15:04:04
Local clock offset: -0.05 ms
Remote clock offset: -1.834 ms

Below is generated by plot.py at 2017-11-30 17:17:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.08 Mbit/s
95th percentile per-packet one-way delay: 49.466 ms
Loss rate: 28.21%
-- Flow 1:
Average throughput: 216.08 Mbit/s
95th percentile per-packet one-way delay: 49.466 ms
Loss rate: 28.21%

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-30 12:04:38

End at: 2017-11-30 12:05:08

Local clock offset: 0.038 ms

Remote clock offset: -1.453 ms

Below is generated by plot.py at 2017-11-30 17:17:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.29 Mbit/s

95th percentile per-packet one-way delay: 18.789 ms

Loss rate: 0.01%

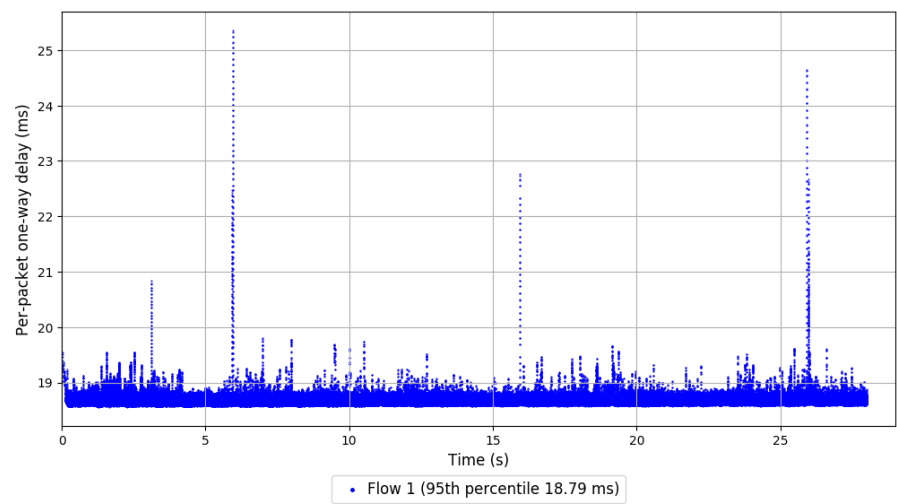
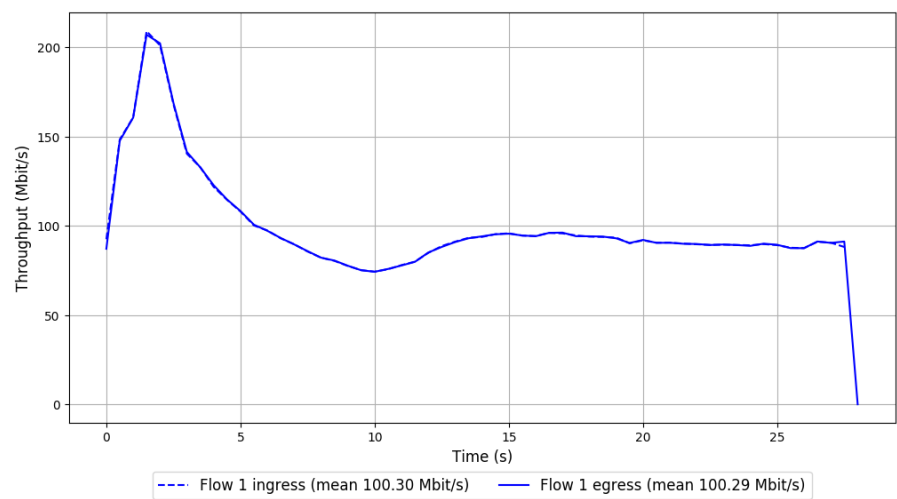
-- Flow 1:

Average throughput: 100.29 Mbit/s

95th percentile per-packet one-way delay: 18.789 ms

Loss rate: 0.01%

Run 1: Report of Copa — Data Link

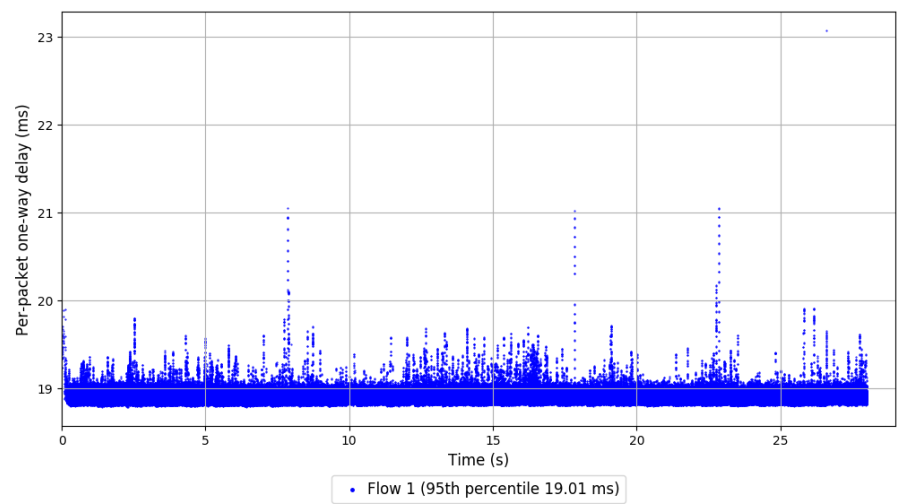
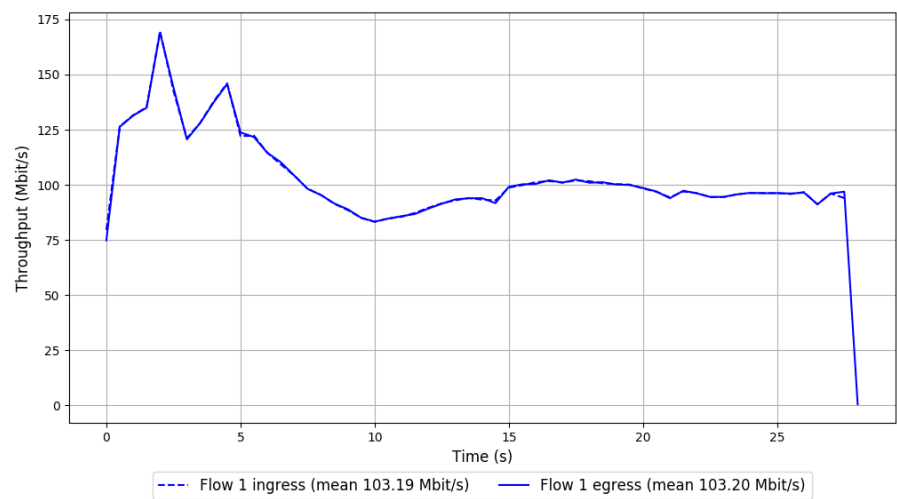


Run 2: Statistics of Copa

Start at: 2017-11-30 12:23:25
End at: 2017-11-30 12:23:55
Local clock offset: 0.099 ms
Remote clock offset: -1.867 ms

Below is generated by plot.py at 2017-11-30 17:18:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 103.20 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 103.20 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

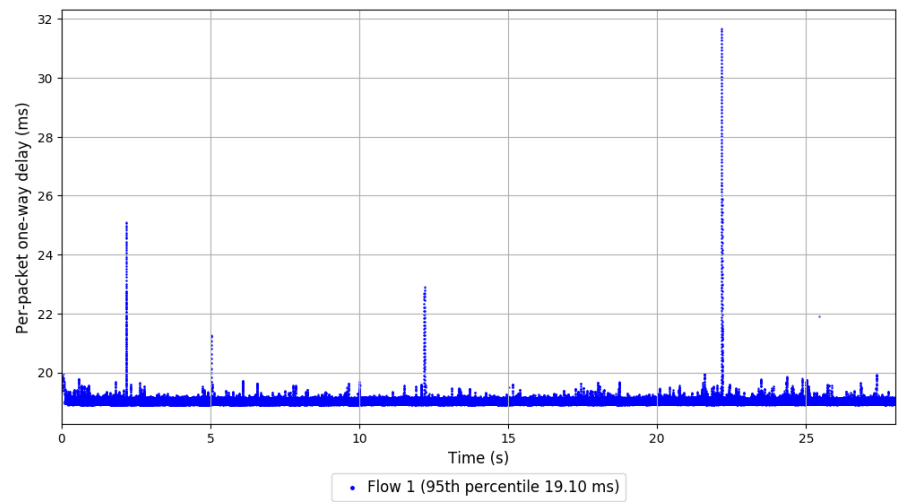
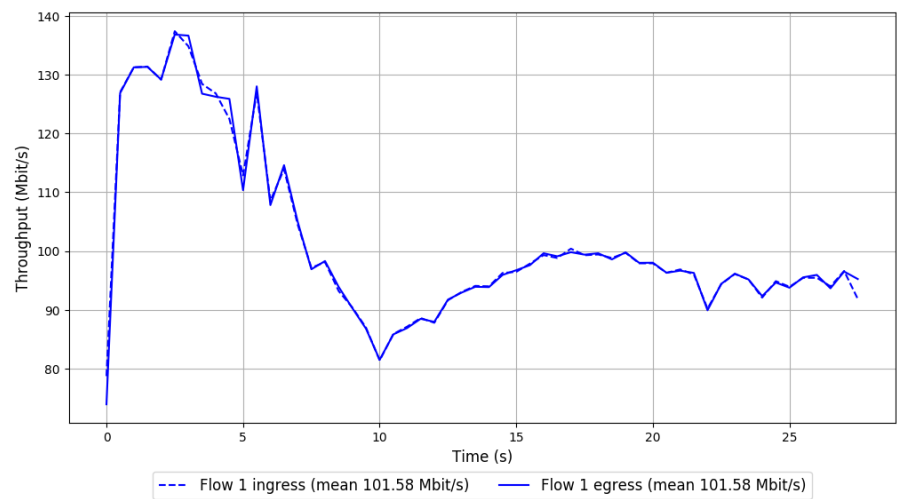


Run 3: Statistics of Copa

Start at: 2017-11-30 12:42:20
End at: 2017-11-30 12:42:50
Local clock offset: 0.009 ms
Remote clock offset: -1.811 ms

Below is generated by plot.py at 2017-11-30 17:18:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.58 Mbit/s
95th percentile per-packet one-way delay: 19.101 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 101.58 Mbit/s
95th percentile per-packet one-way delay: 19.101 ms
Loss rate: 0.01%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2017-11-30 13:00:54

End at: 2017-11-30 13:01:24

Local clock offset: 0.028 ms

Remote clock offset: -1.88 ms

Below is generated by plot.py at 2017-11-30 17:18:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.91 Mbit/s

95th percentile per-packet one-way delay: 18.883 ms

Loss rate: 0.00%

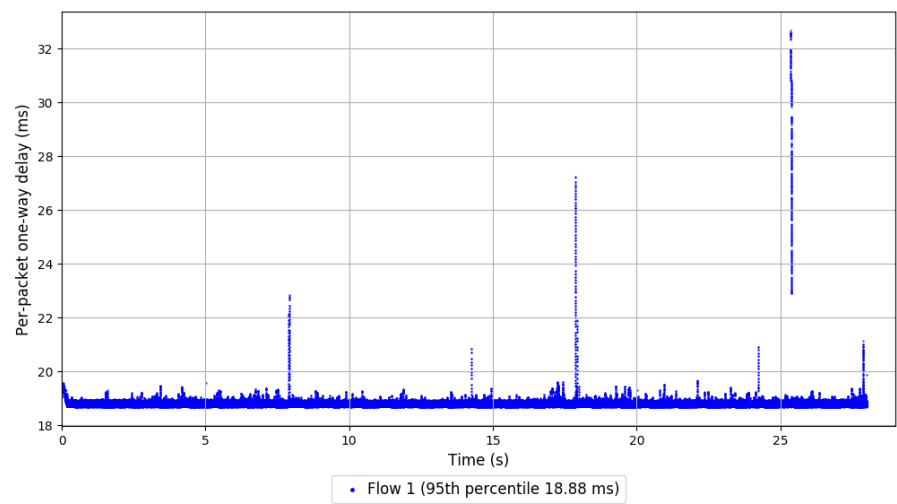
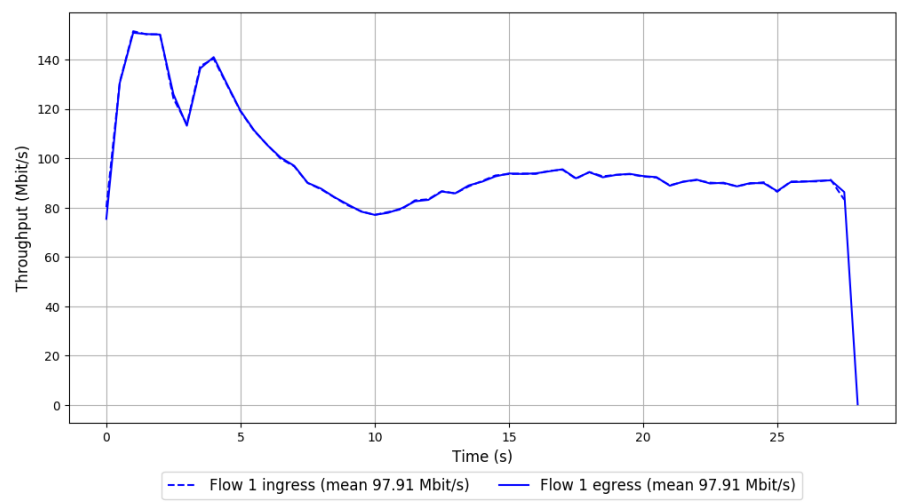
-- Flow 1:

Average throughput: 97.91 Mbit/s

95th percentile per-packet one-way delay: 18.883 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2017-11-30 13:19:46

End at: 2017-11-30 13:20:16

Local clock offset: 0.089 ms

Remote clock offset: -1.66 ms

Below is generated by plot.py at 2017-11-30 17:18:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 106.43 Mbit/s

95th percentile per-packet one-way delay: 18.800 ms

Loss rate: 0.00%

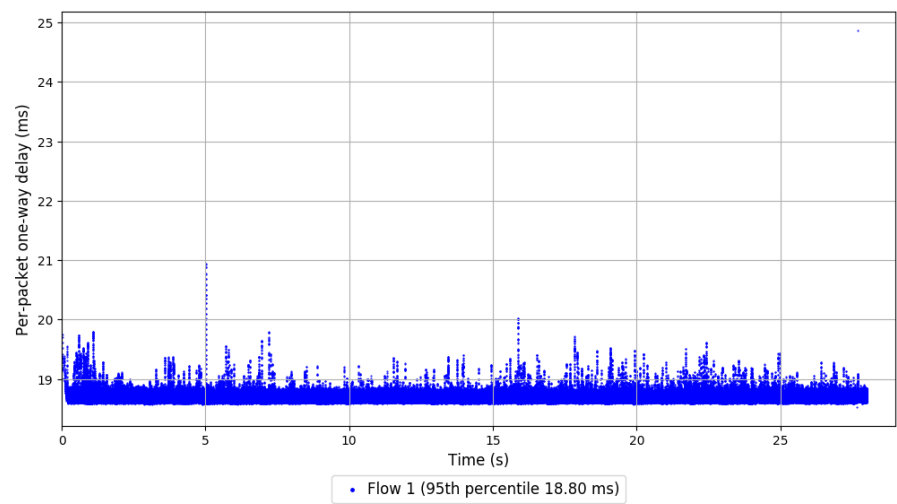
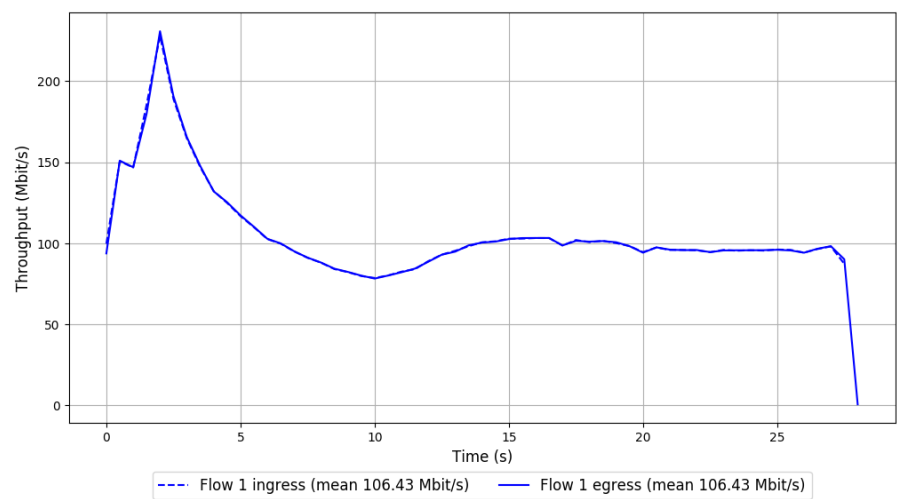
-- Flow 1:

Average throughput: 106.43 Mbit/s

95th percentile per-packet one-way delay: 18.800 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2017-11-30 13:38:00

End at: 2017-11-30 13:38:31

Local clock offset: 0.113 ms

Remote clock offset: -1.48 ms

Below is generated by plot.py at 2017-11-30 17:18:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.62 Mbit/s

95th percentile per-packet one-way delay: 19.018 ms

Loss rate: 0.00%

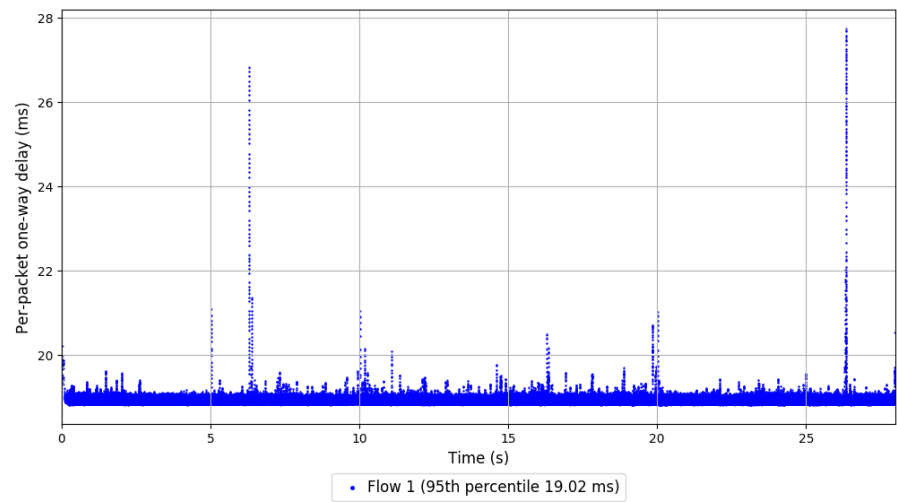
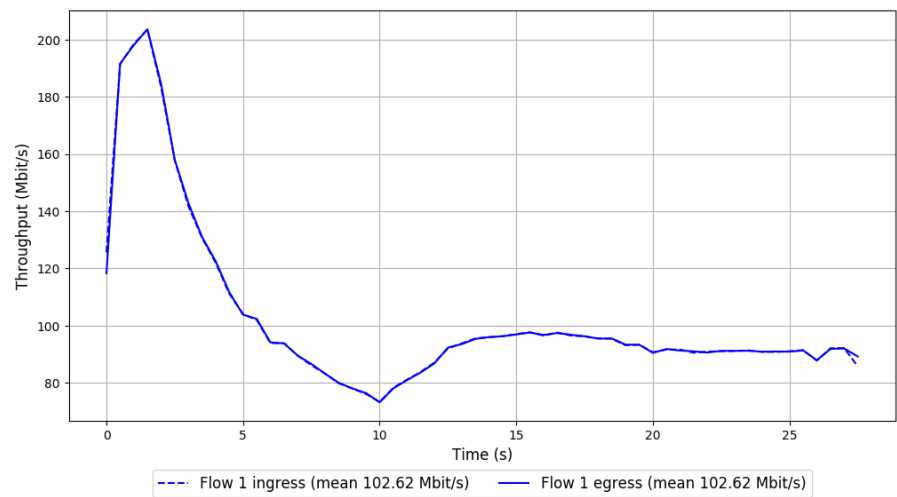
-- Flow 1:

Average throughput: 102.62 Mbit/s

95th percentile per-packet one-way delay: 19.018 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link

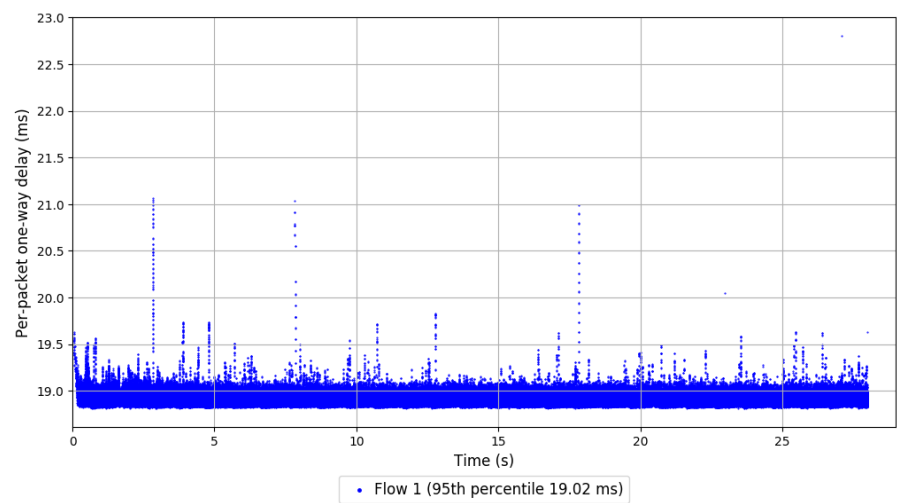
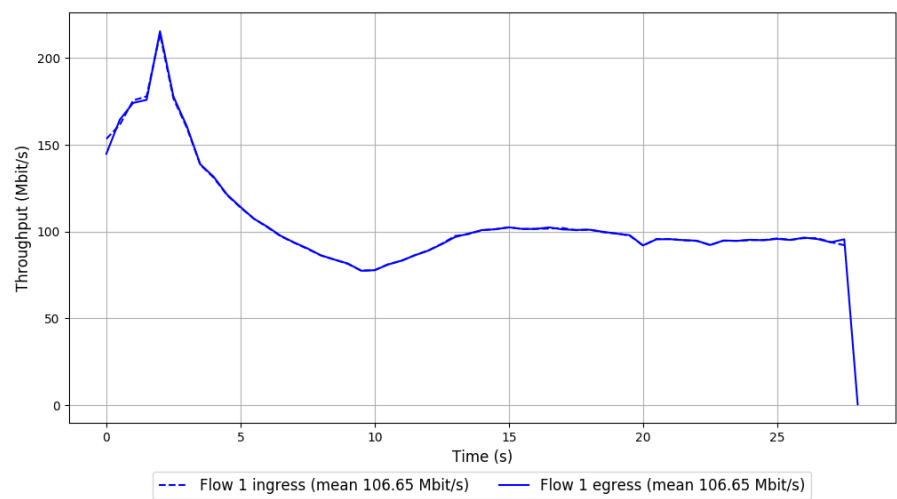


Run 7: Statistics of Copa

Start at: 2017-11-30 13:56:57
End at: 2017-11-30 13:57:27
Local clock offset: 0.169 ms
Remote clock offset: -1.589 ms

Below is generated by plot.py at 2017-11-30 17:19:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 106.65 Mbit/s
95th percentile per-packet one-way delay: 19.019 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.65 Mbit/s
95th percentile per-packet one-way delay: 19.019 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

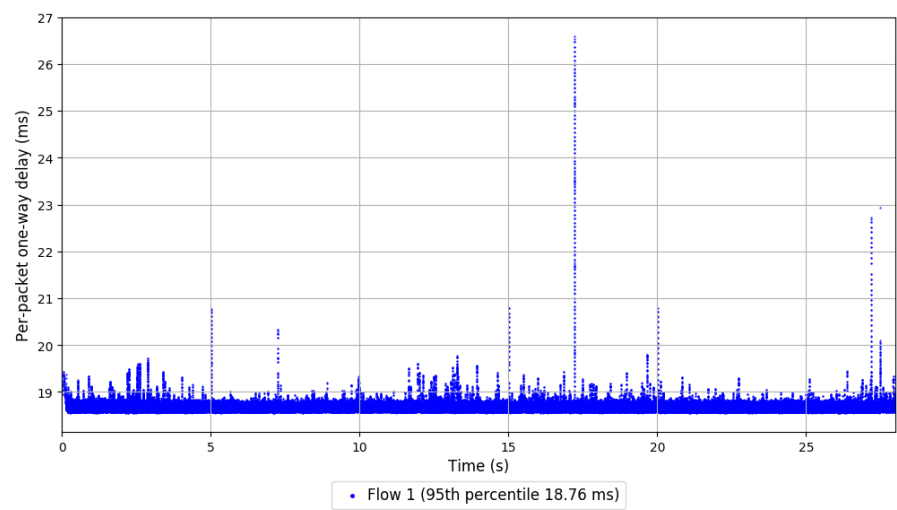
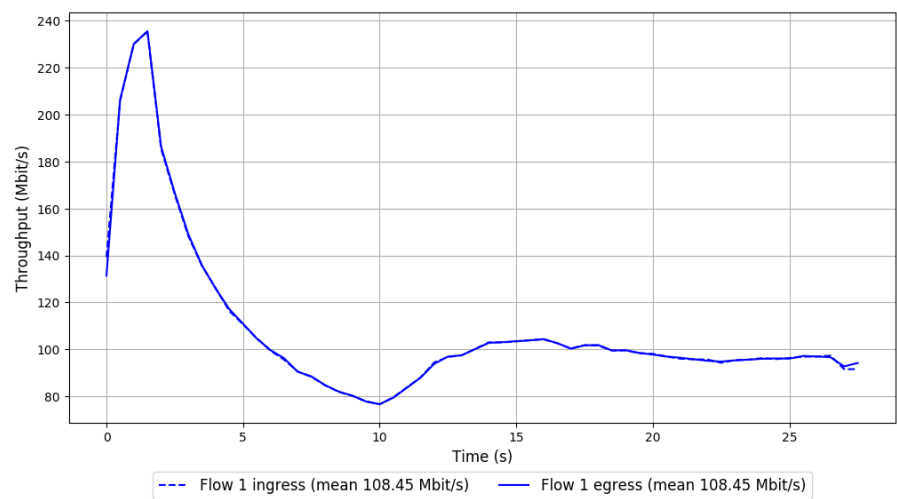


Run 8: Statistics of Copa

Start at: 2017-11-30 14:15:51
End at: 2017-11-30 14:16:21
Local clock offset: 0.116 ms
Remote clock offset: -1.478 ms

Below is generated by plot.py at 2017-11-30 17:19:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 108.45 Mbit/s
95th percentile per-packet one-way delay: 18.764 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 108.45 Mbit/s
95th percentile per-packet one-way delay: 18.764 ms
Loss rate: 0.01%

Run 8: Report of Copa — Data Link

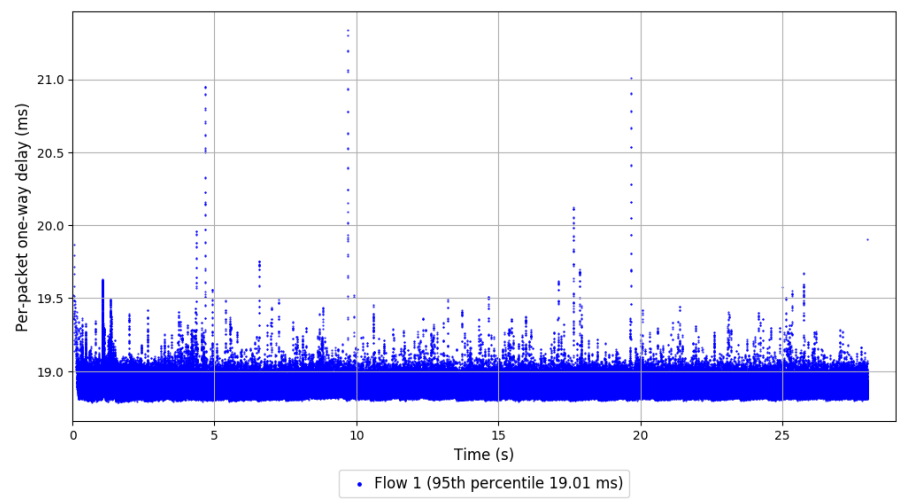
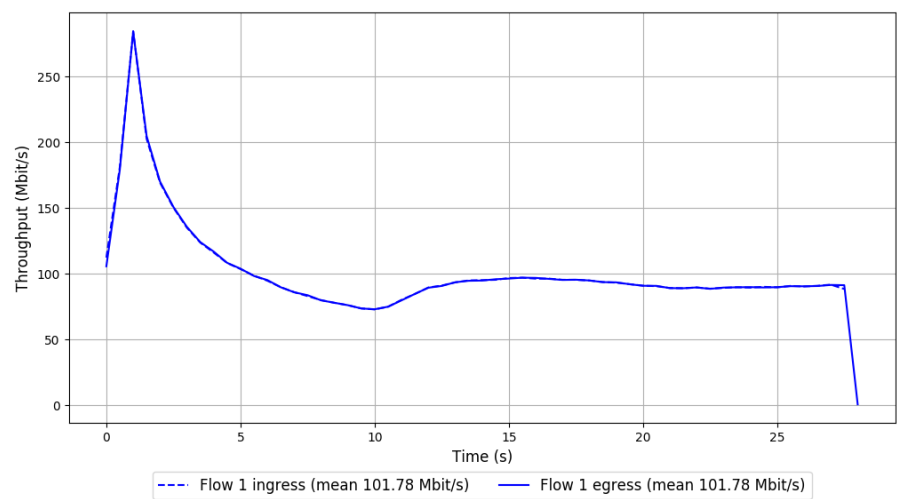


Run 9: Statistics of Copa

Start at: 2017-11-30 14:34:26
End at: 2017-11-30 14:34:56
Local clock offset: 0.056 ms
Remote clock offset: -1.762 ms

Below is generated by plot.py at 2017-11-30 17:19:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.78 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 101.78 Mbit/s
95th percentile per-packet one-way delay: 19.006 ms
Loss rate: 0.01%

Run 9: Report of Copa — Data Link

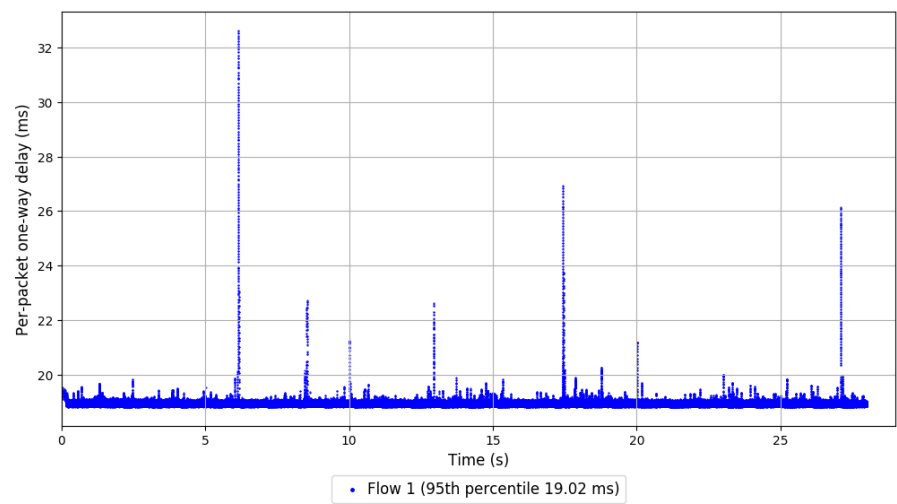
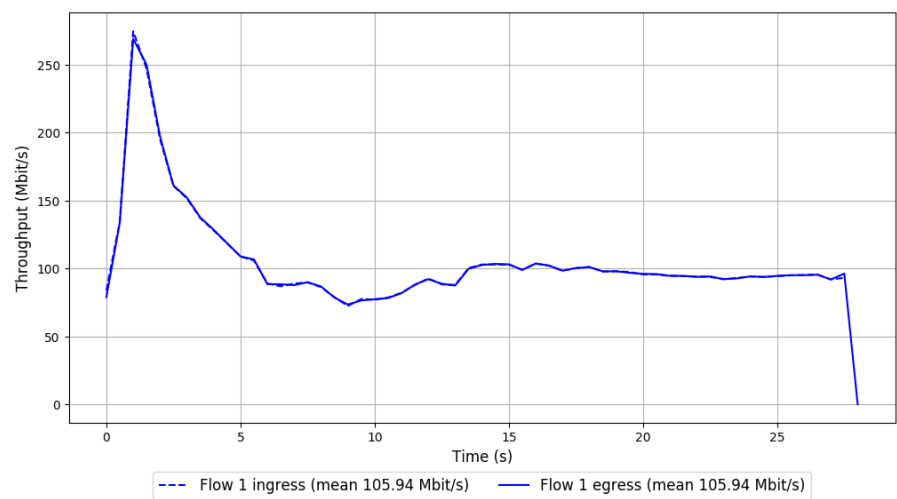


Run 10: Statistics of Copa

Start at: 2017-11-30 14:53:06
End at: 2017-11-30 14:53:36
Local clock offset: -0.026 ms
Remote clock offset: -1.924 ms

Below is generated by plot.py at 2017-11-30 17:20:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.94 Mbit/s
95th percentile per-packet one-way delay: 19.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.94 Mbit/s
95th percentile per-packet one-way delay: 19.016 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

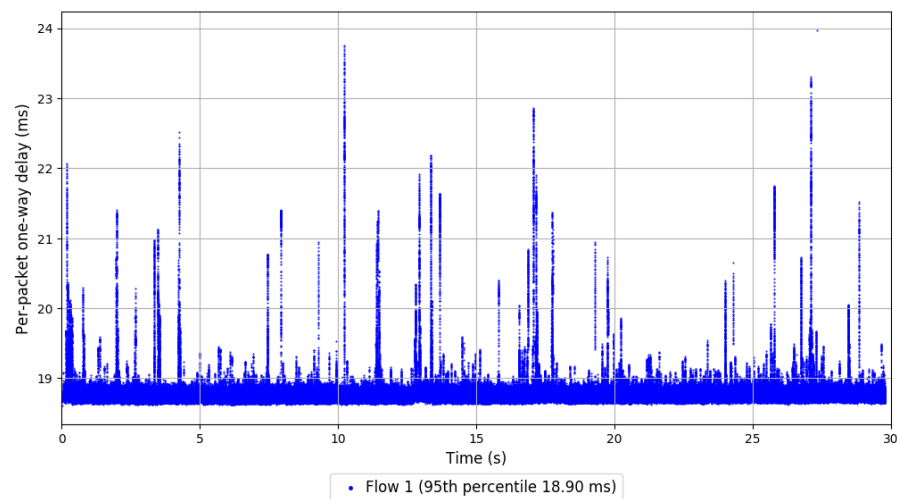
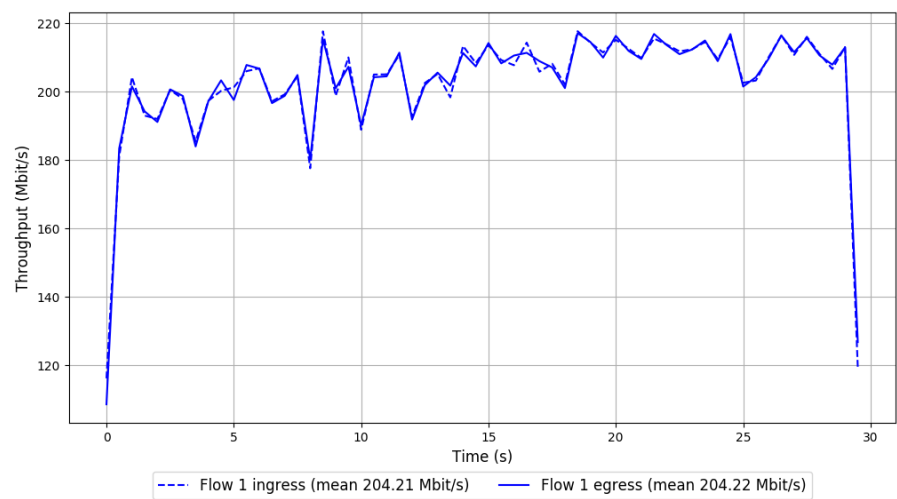


```
Run 1: Statistics of Indigo

Start at: 2017-11-30 12:07:05
End at: 2017-11-30 12:07:35
Local clock offset: 0.02 ms
Remote clock offset: -1.508 ms

# Below is generated by plot.py at 2017-11-30 17:21:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.22 Mbit/s
95th percentile per-packet one-way delay: 18.896 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.22 Mbit/s
95th percentile per-packet one-way delay: 18.896 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-11-30 12:25:52

End at: 2017-11-30 12:26:22

Local clock offset: 0.088 ms

Remote clock offset: -1.767 ms

Below is generated by plot.py at 2017-11-30 17:21:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.71 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

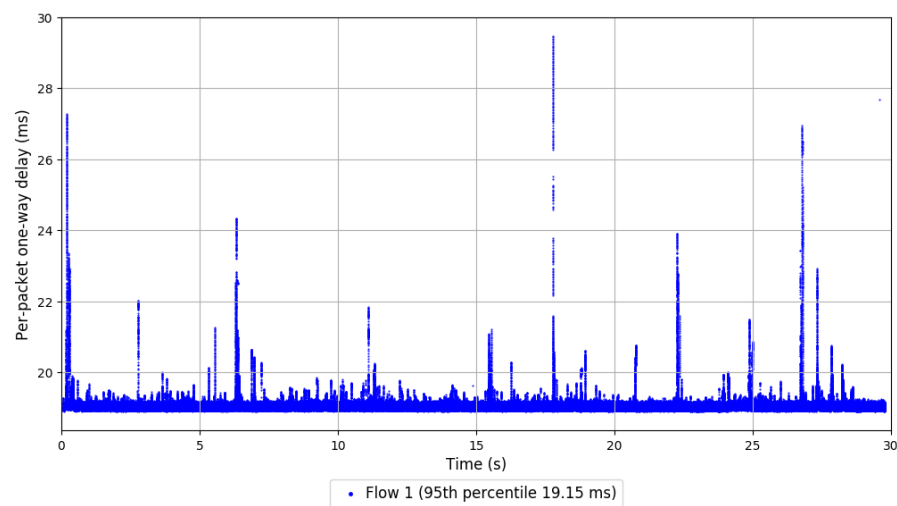
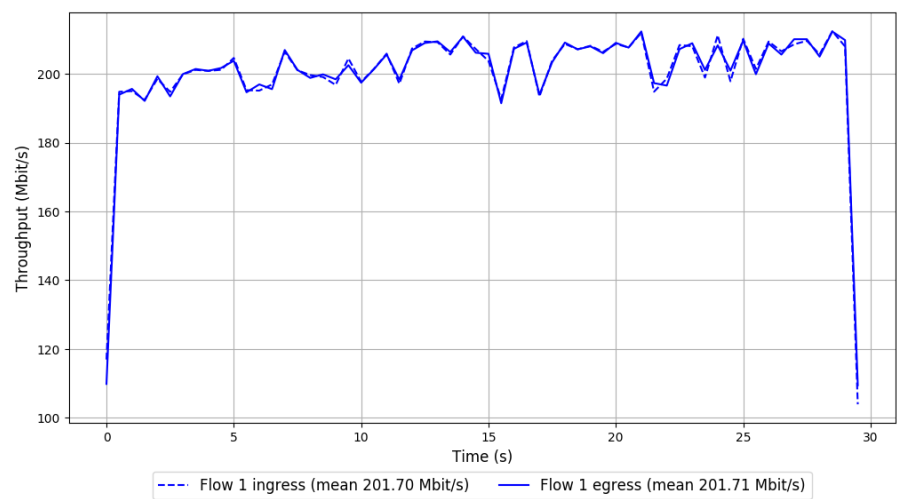
-- Flow 1:

Average throughput: 201.71 Mbit/s

95th percentile per-packet one-way delay: 19.150 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

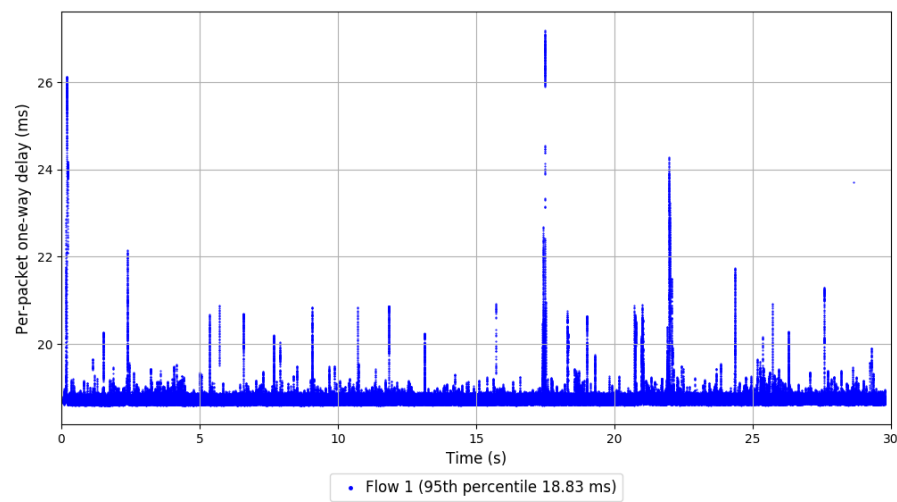
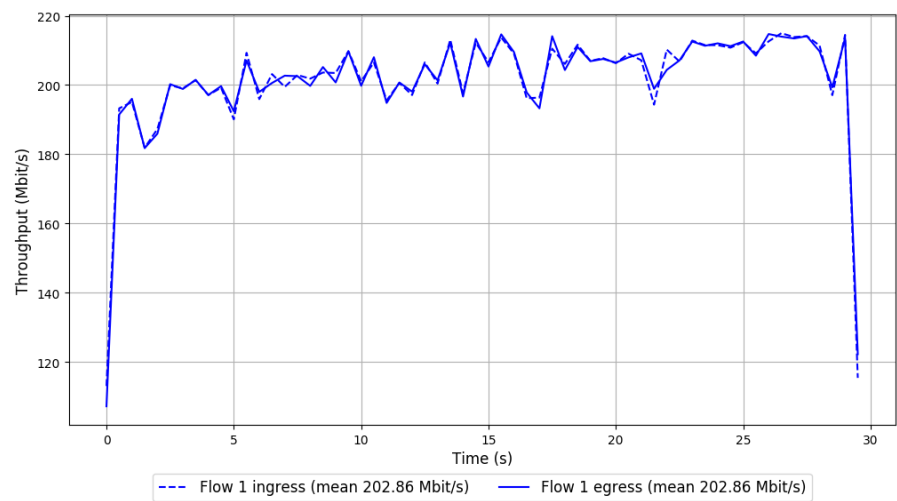


Run 3: Statistics of Indigo

Start at: 2017-11-30 12:44:47
End at: 2017-11-30 12:45:17
Local clock offset: 0.115 ms
Remote clock offset: -1.871 ms

Below is generated by plot.py at 2017-11-30 17:21:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.86 Mbit/s
95th percentile per-packet one-way delay: 18.834 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 202.86 Mbit/s
95th percentile per-packet one-way delay: 18.834 ms
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2017-11-30 13:03:21

End at: 2017-11-30 13:03:51

Local clock offset: 0.104 ms

Remote clock offset: -1.86 ms

Below is generated by plot.py at 2017-11-30 17:21:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.24 Mbit/s

95th percentile per-packet one-way delay: 19.166 ms

Loss rate: 0.01%

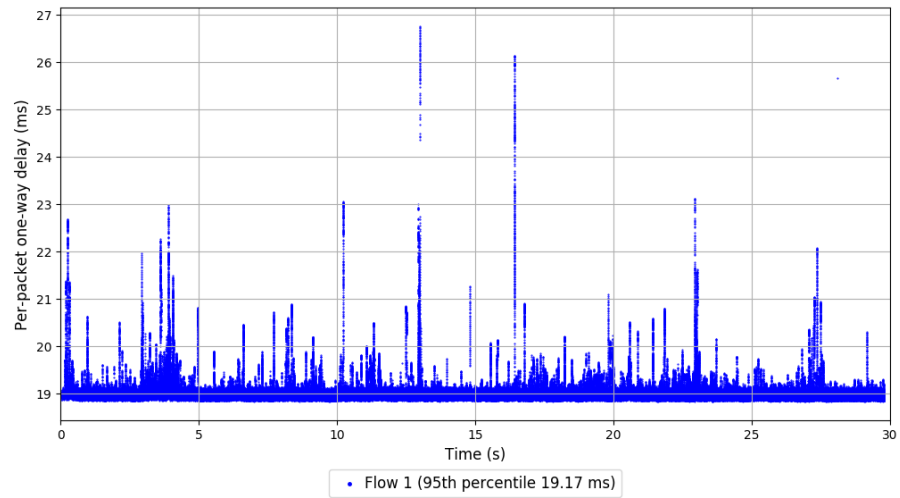
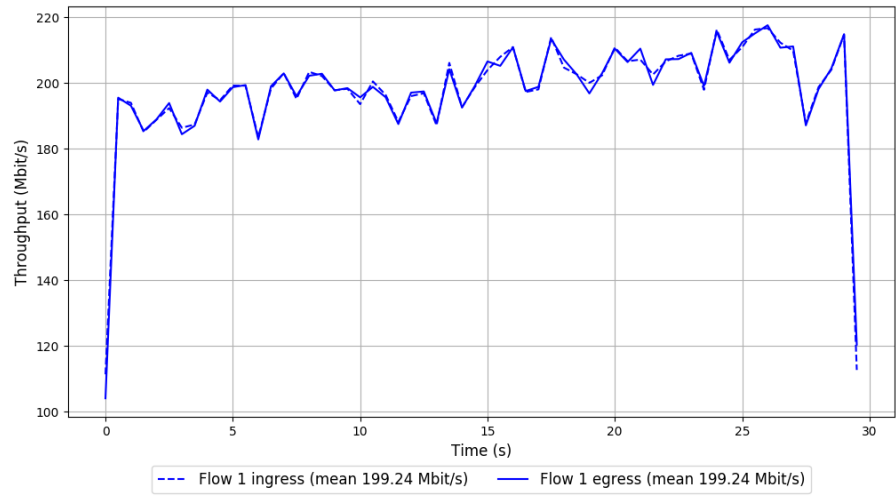
-- Flow 1:

Average throughput: 199.24 Mbit/s

95th percentile per-packet one-way delay: 19.166 ms

Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

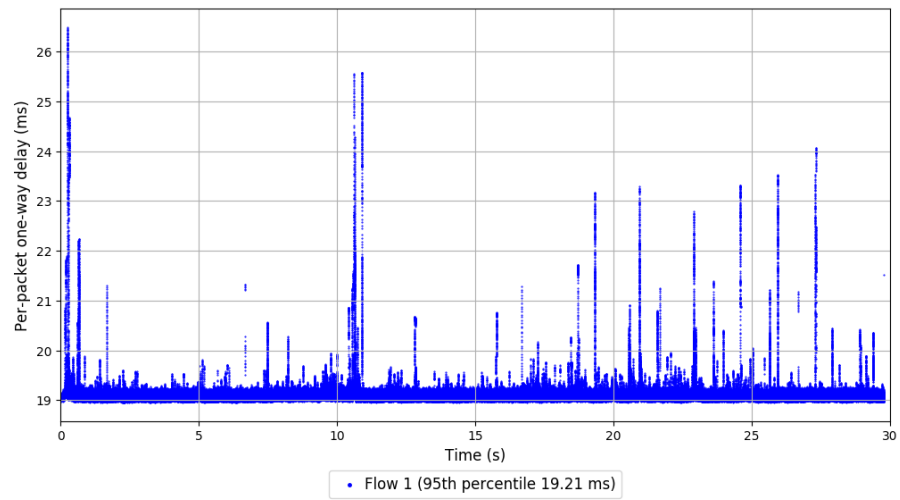
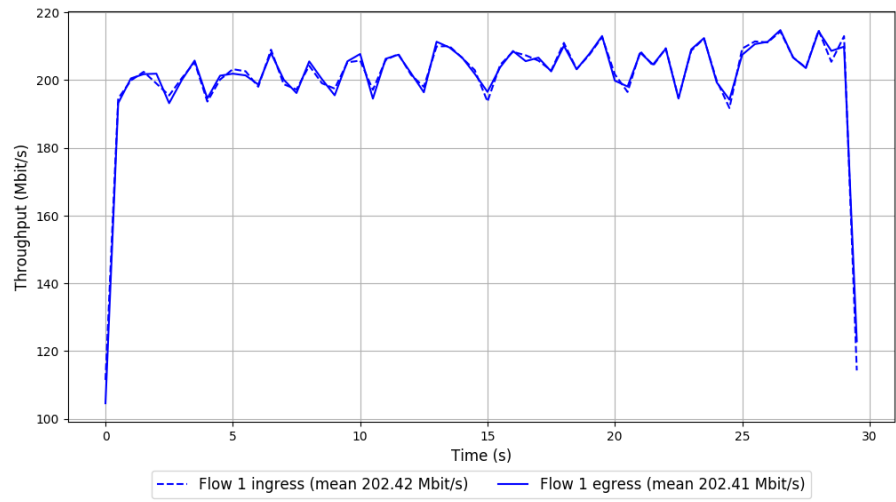


Run 5: Statistics of Indigo

Start at: 2017-11-30 13:22:13
End at: 2017-11-30 13:22:43
Local clock offset: 0.004 ms
Remote clock offset: -1.633 ms

Below is generated by plot.py at 2017-11-30 17:22:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.41 Mbit/s
95th percentile per-packet one-way delay: 19.212 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.41 Mbit/s
95th percentile per-packet one-way delay: 19.212 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-30 13:40:27

End at: 2017-11-30 13:40:57

Local clock offset: 0.056 ms

Remote clock offset: -1.352 ms

Below is generated by plot.py at 2017-11-30 17:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.43 Mbit/s

95th percentile per-packet one-way delay: 19.027 ms

Loss rate: 0.00%

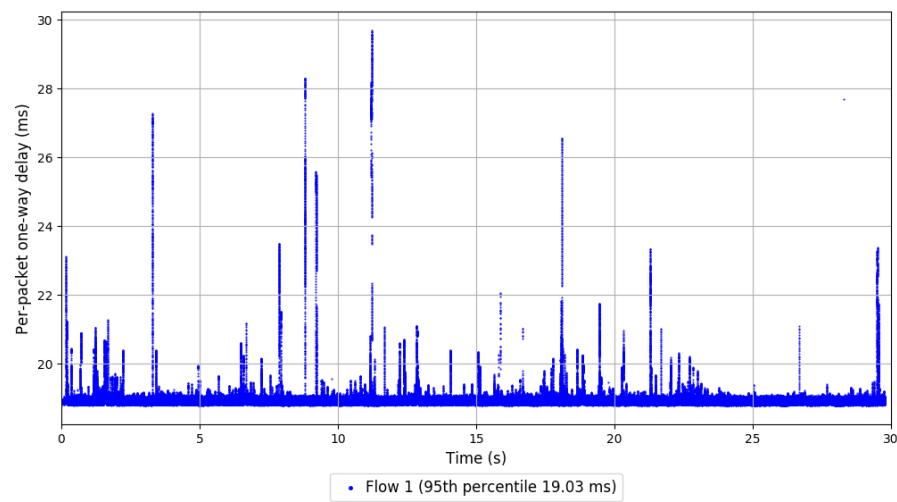
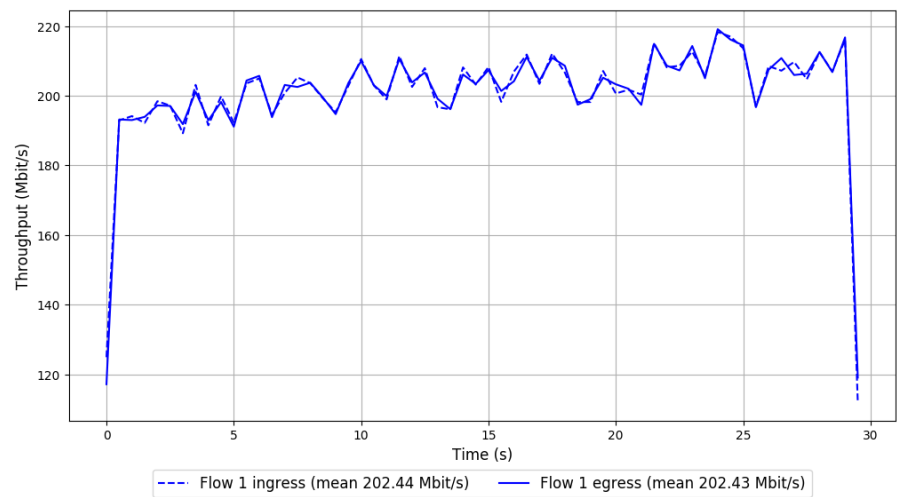
-- Flow 1:

Average throughput: 202.43 Mbit/s

95th percentile per-packet one-way delay: 19.027 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

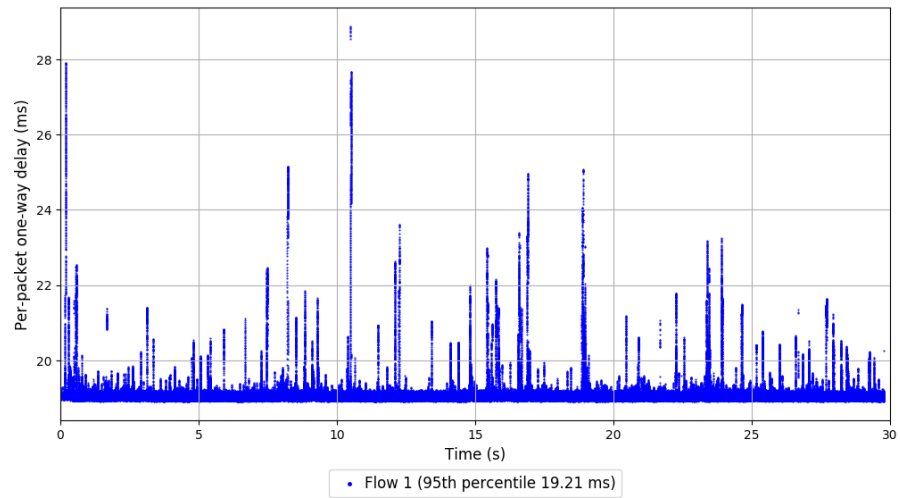
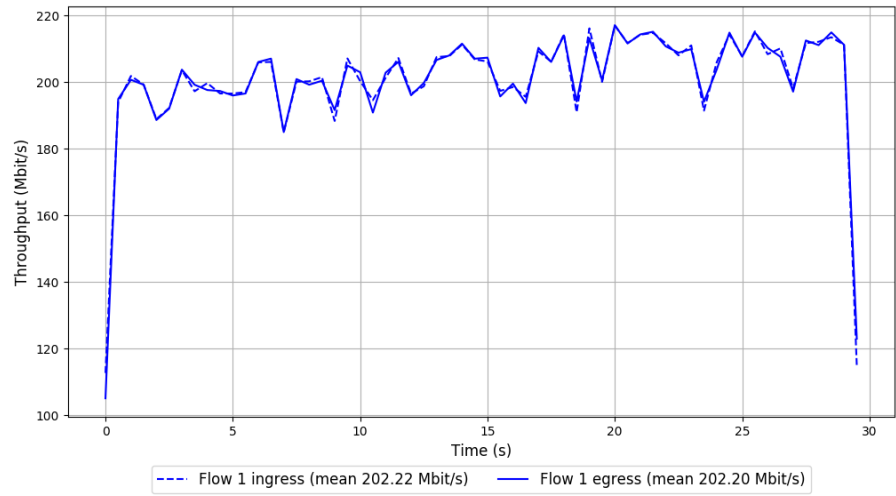


Run 7: Statistics of Indigo

Start at: 2017-11-30 13:59:24
End at: 2017-11-30 13:59:54
Local clock offset: 0.067 ms
Remote clock offset: -1.592 ms

Below is generated by plot.py at 2017-11-30 17:22:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.20 Mbit/s
95th percentile per-packet one-way delay: 19.210 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.20 Mbit/s
95th percentile per-packet one-way delay: 19.210 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link

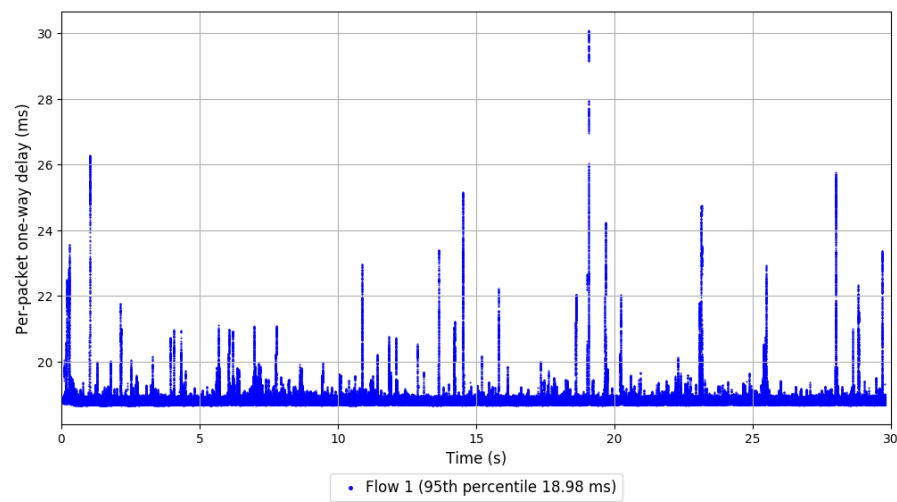
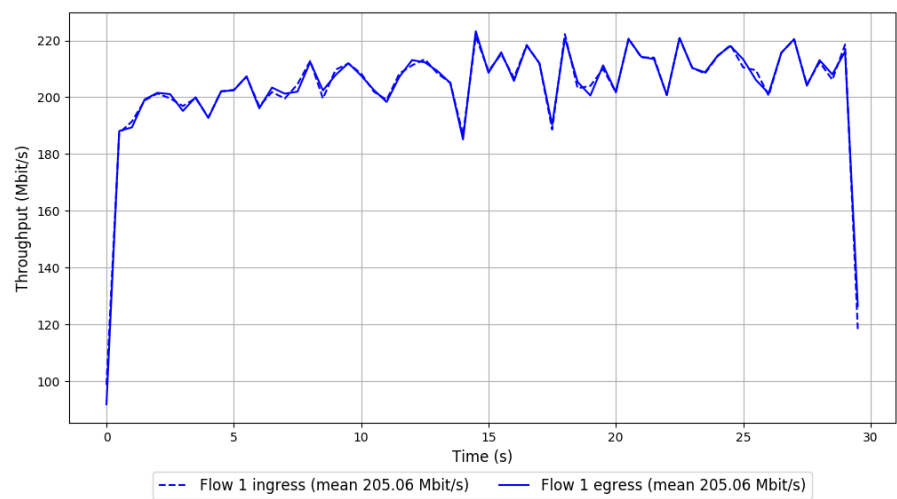


Run 8: Statistics of Indigo

Start at: 2017-11-30 14:18:18
End at: 2017-11-30 14:18:48
Local clock offset: 0.112 ms
Remote clock offset: -1.396 ms

Below is generated by plot.py at 2017-11-30 17:23:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.06 Mbit/s
95th percentile per-packet one-way delay: 18.975 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.06 Mbit/s
95th percentile per-packet one-way delay: 18.975 ms
Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

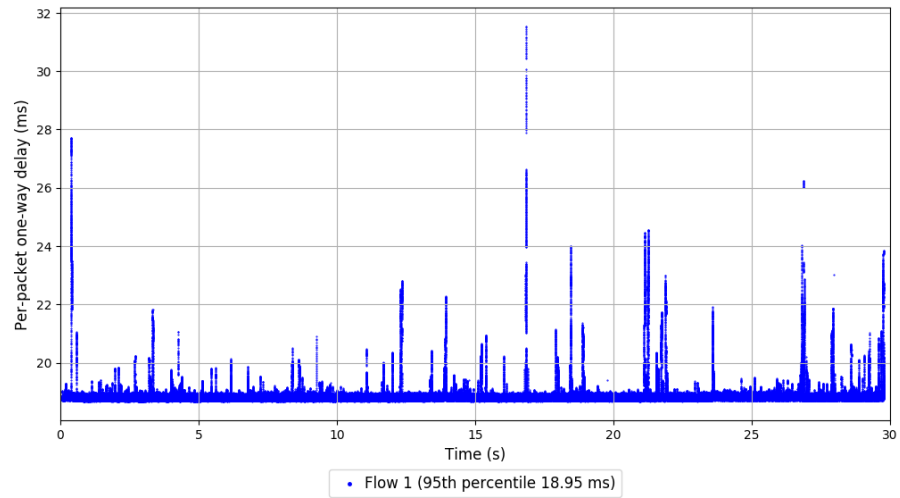
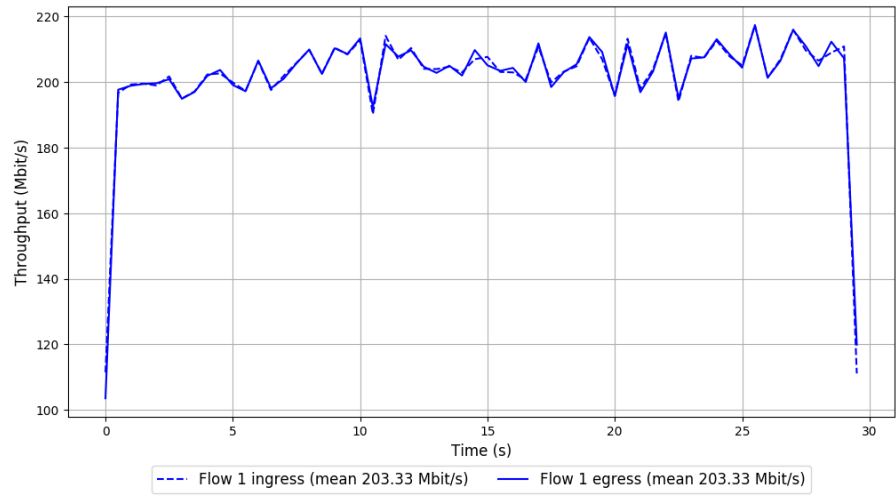


Run 9: Statistics of Indigo

Start at: 2017-11-30 14:36:53
End at: 2017-11-30 14:37:23
Local clock offset: -0.045 ms
Remote clock offset: -1.791 ms

Below is generated by plot.py at 2017-11-30 17:23:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 203.33 Mbit/s
95th percentile per-packet one-way delay: 18.948 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 203.33 Mbit/s
95th percentile per-packet one-way delay: 18.948 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-30 14:55:33

End at: 2017-11-30 14:56:03

Local clock offset: -0.027 ms

Remote clock offset: -1.918 ms

Below is generated by plot.py at 2017-11-30 17:23:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.48 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.02%

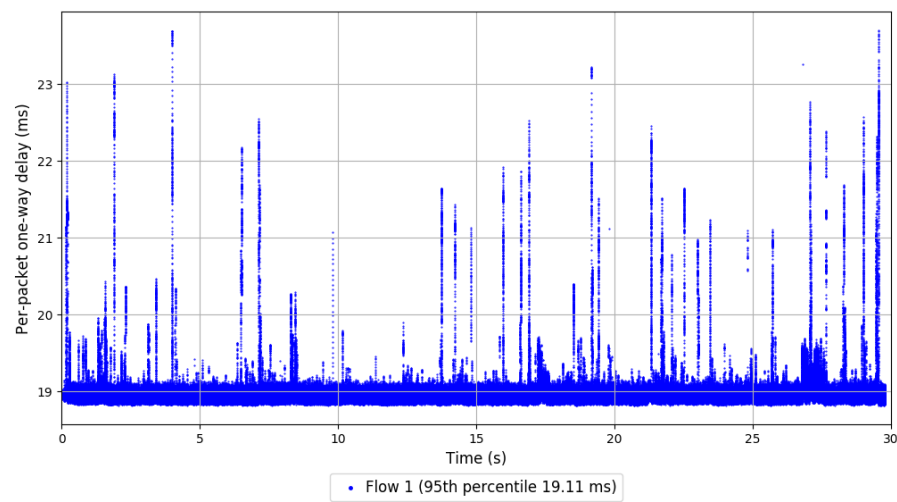
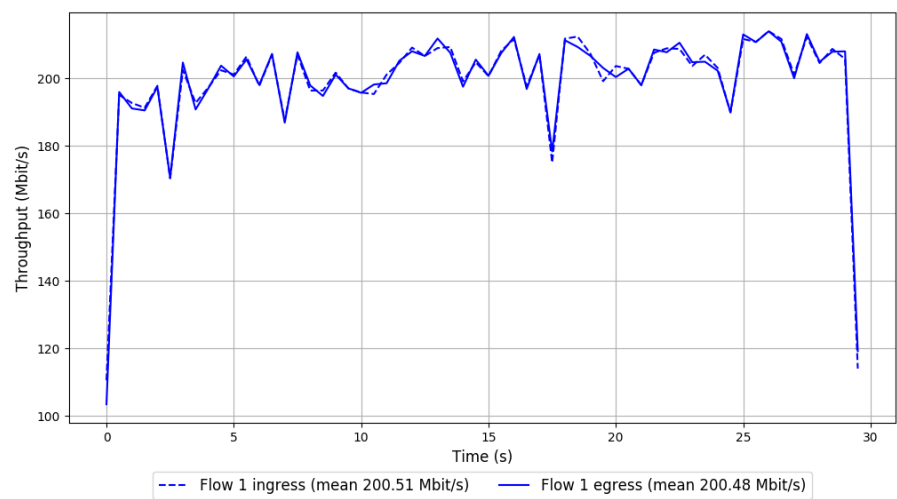
-- Flow 1:

Average throughput: 200.48 Mbit/s

95th percentile per-packet one-way delay: 19.106 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of Indigo-calib

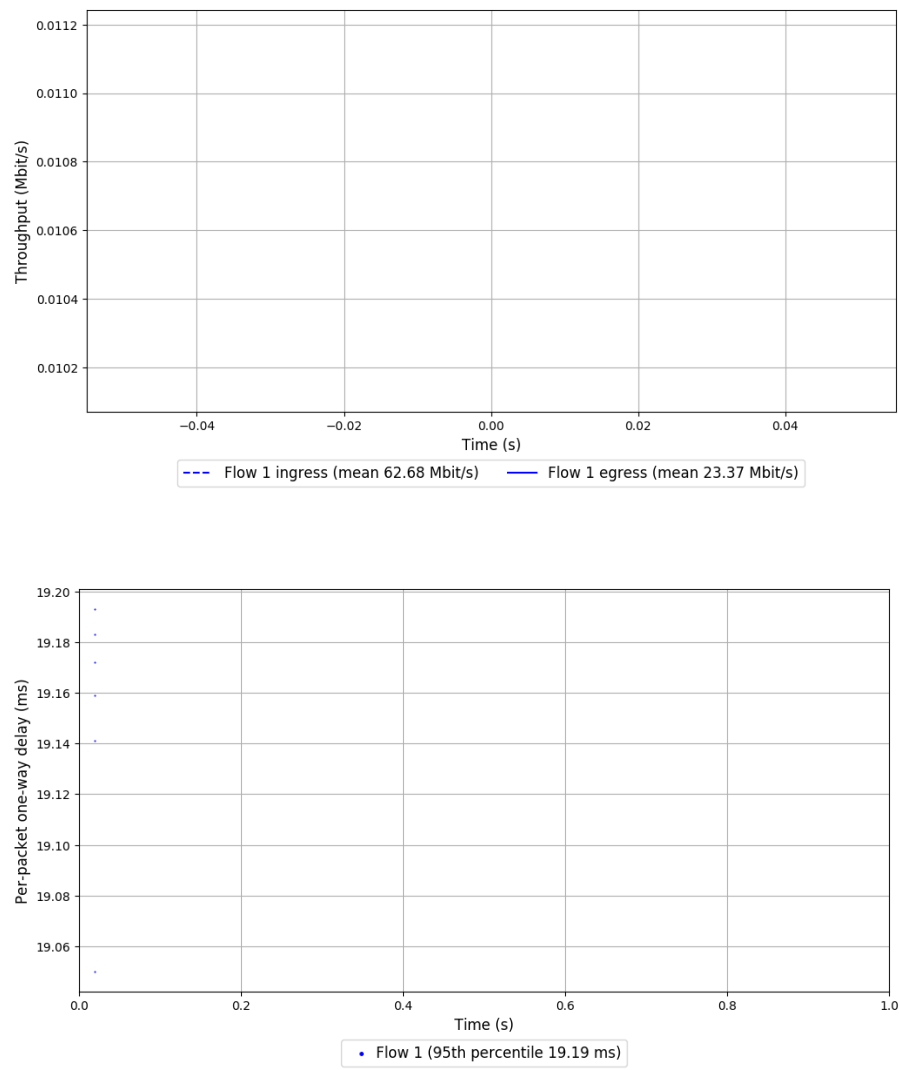
Start at: 2017-11-30 12:03:28

End at: 2017-11-30 12:03:58

Local clock offset: -0.051 ms

Remote clock offset: -1.403 ms

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

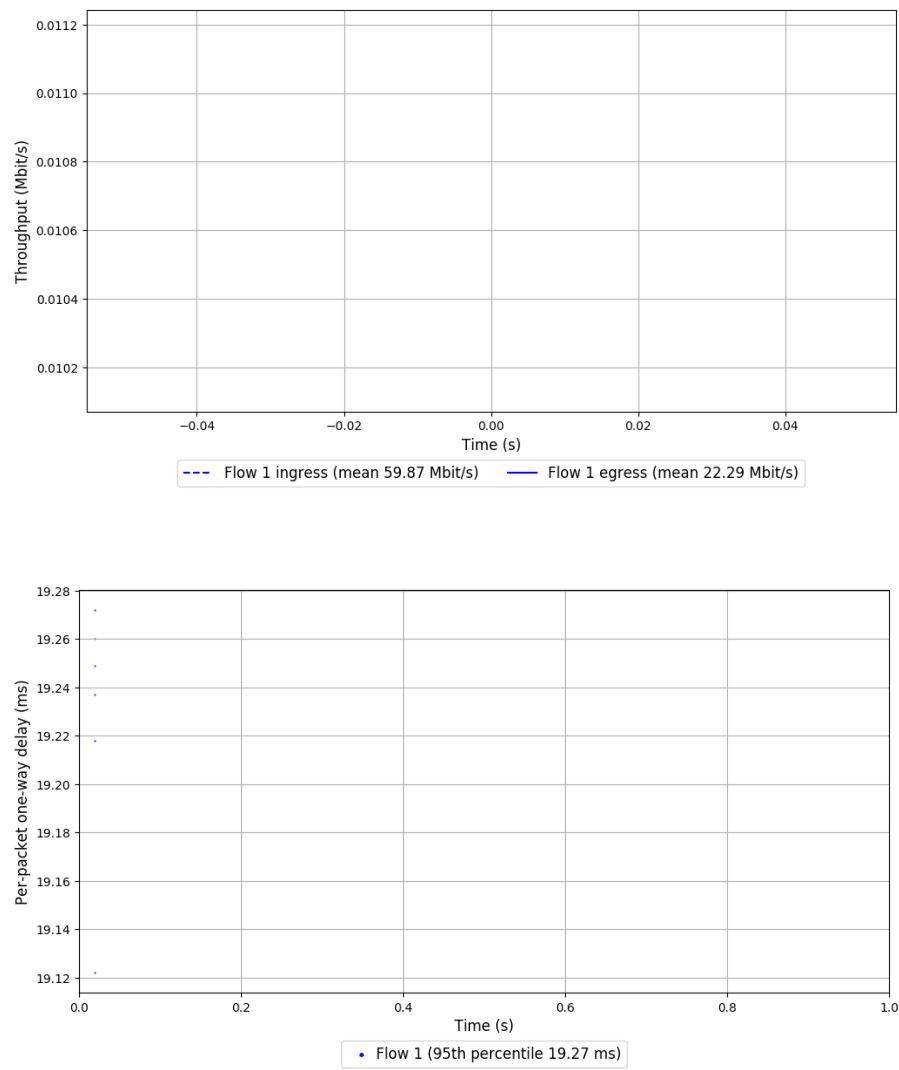
Start at: 2017-11-30 12:22:15

End at: 2017-11-30 12:22:45

Local clock offset: 0.004 ms

Remote clock offset: -1.808 ms

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-30 12:41:02

End at: 2017-11-30 12:41:32

Local clock offset: 0.097 ms

Remote clock offset: -1.807 ms

Below is generated by plot.py at 2017-11-30 17:23:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.13 Mbit/s

95th percentile per-packet one-way delay: 19.097 ms

Loss rate: 0.00%

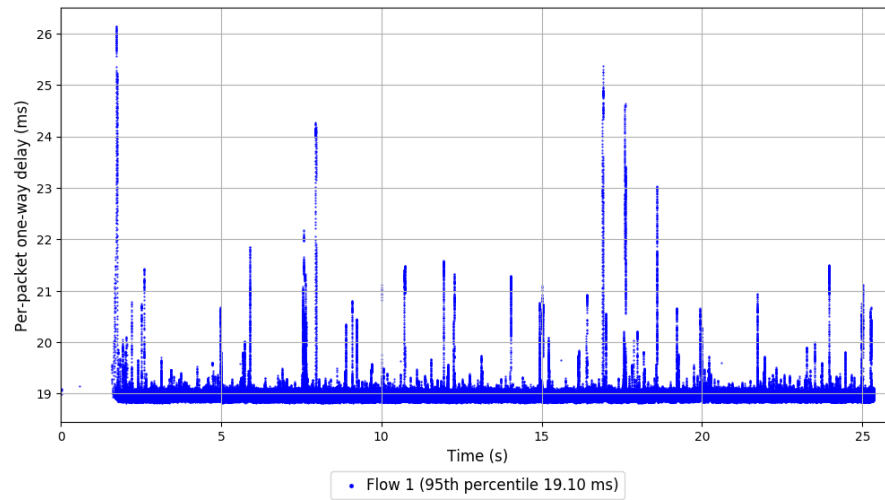
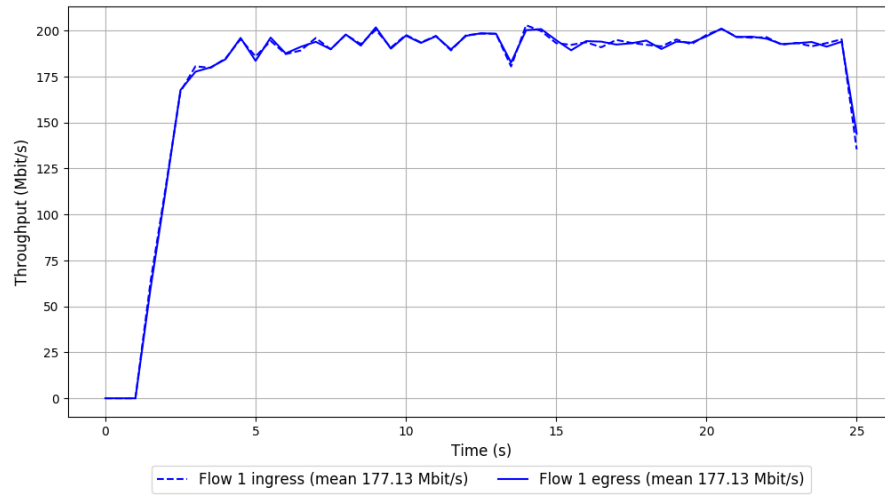
-- Flow 1:

Average throughput: 177.13 Mbit/s

95th percentile per-packet one-way delay: 19.097 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

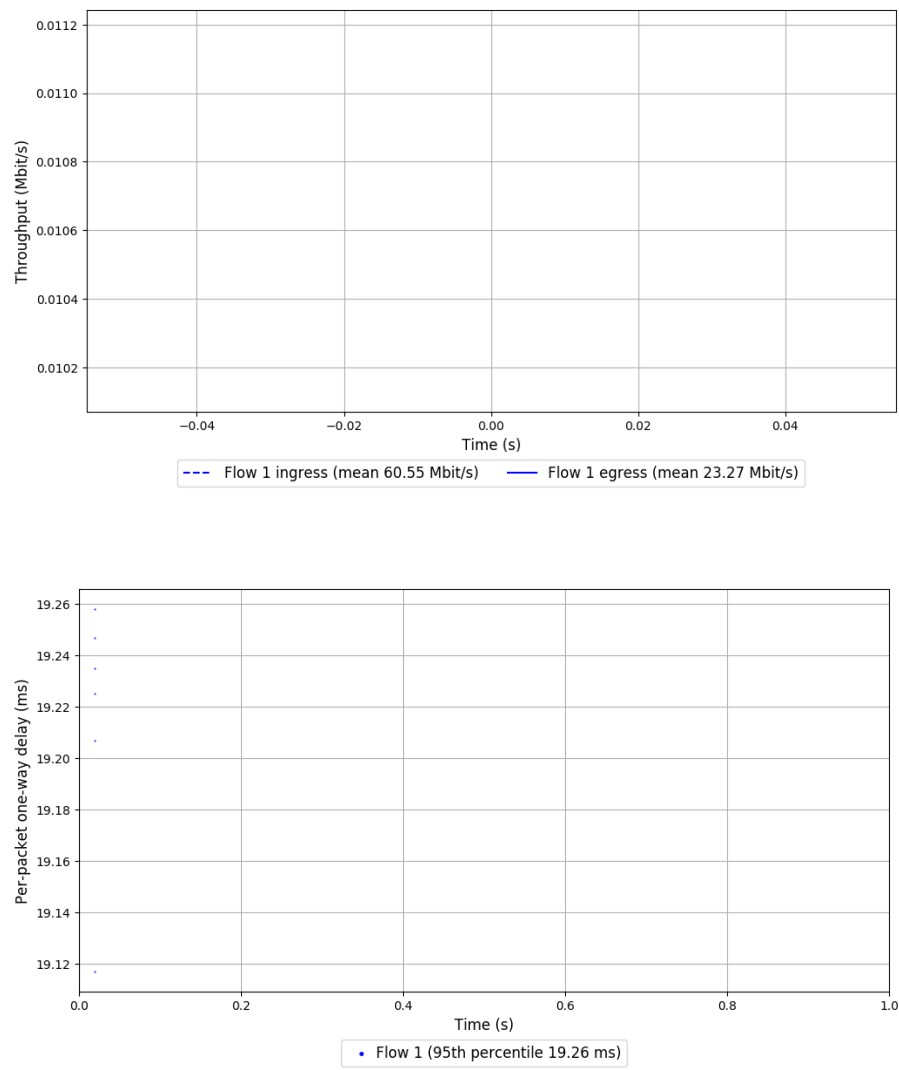
Start at: 2017-11-30 12:59:44

End at: 2017-11-30 13:00:14

Local clock offset: 0.122 ms

Remote clock offset: -1.964 ms

Run 4: Report of Indigo-calib — Data Link

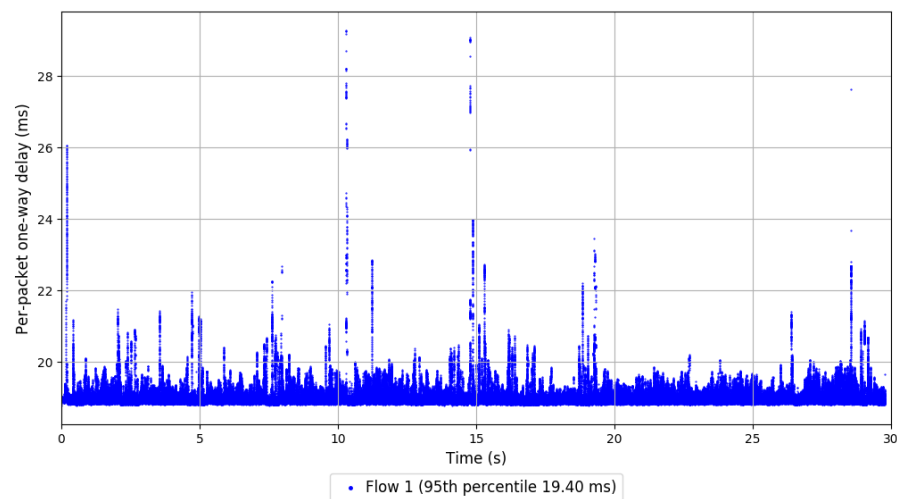
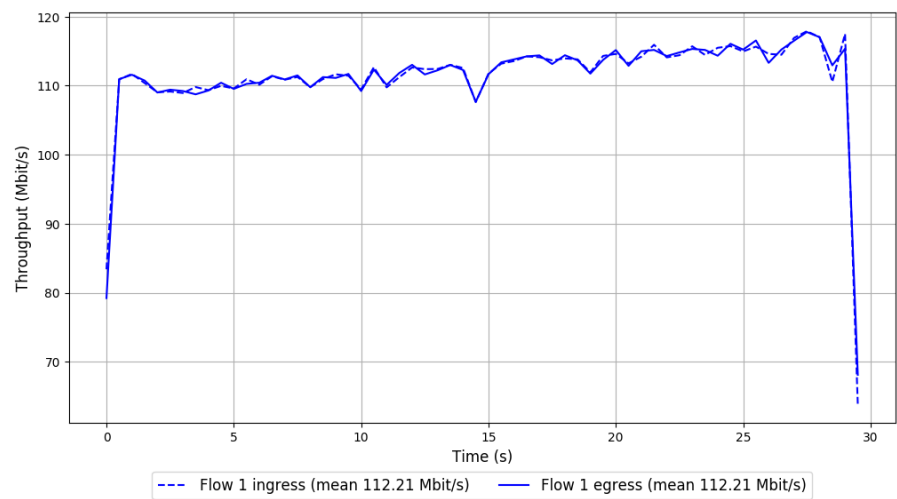


Run 5: Statistics of Indigo-calib

Start at: 2017-11-30 13:18:30
End at: 2017-11-30 13:19:00
Local clock offset: 0.098 ms
Remote clock offset: -1.662 ms

Below is generated by plot.py at 2017-11-30 17:23:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 112.21 Mbit/s
95th percentile per-packet one-way delay: 19.399 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.21 Mbit/s
95th percentile per-packet one-way delay: 19.399 ms
Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

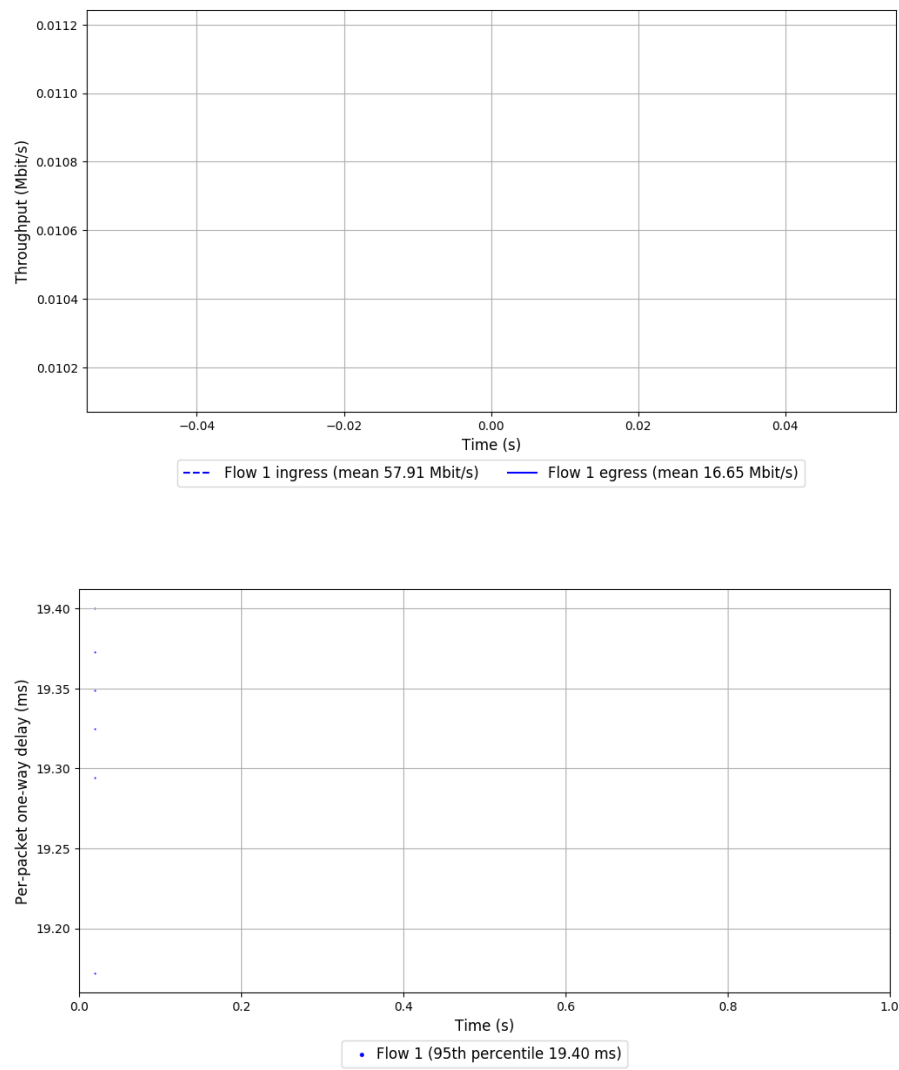
Start at: 2017-11-30 13:36:50

End at: 2017-11-30 13:37:20

Local clock offset: 0.045 ms

Remote clock offset: -1.508 ms

Run 6: Report of Indigo-calib — Data Link



Run 7: Statistics of Indigo-calib

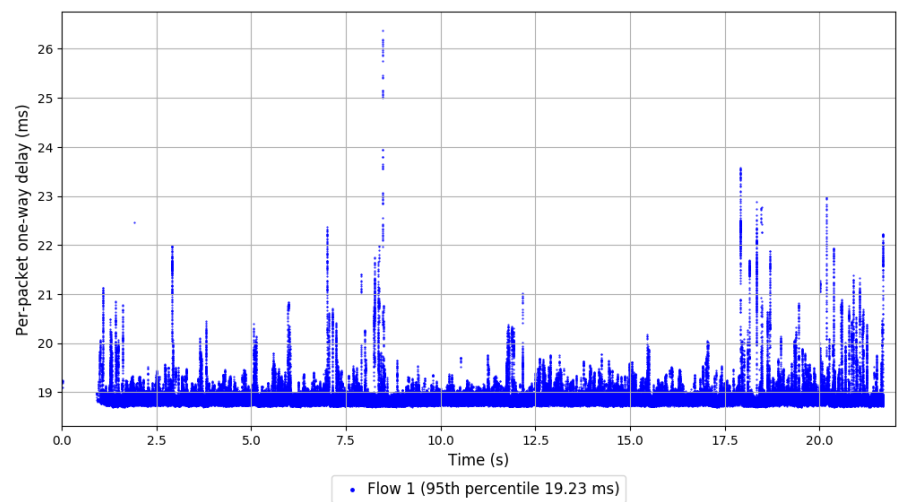
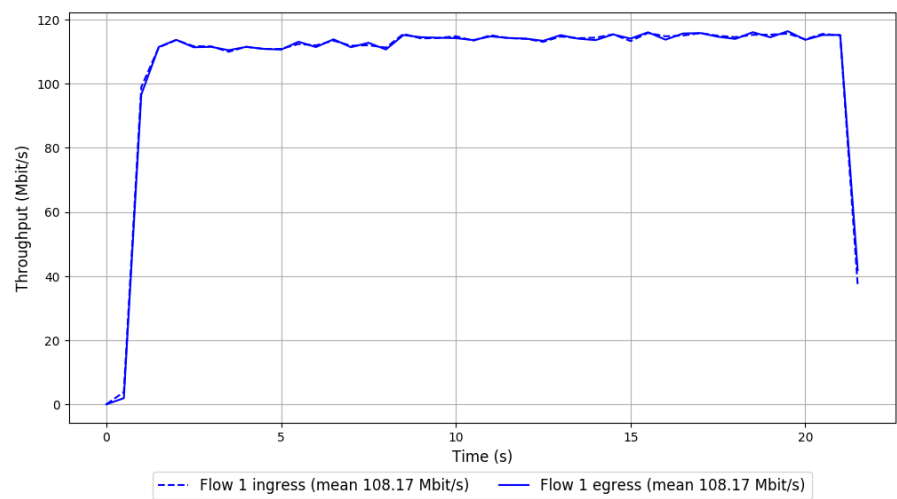
Start at: 2017-11-30 13:55:43

End at: 2017-11-30 13:56:13

Local clock offset: 0.077 ms

Remote clock offset: -1.598 ms

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

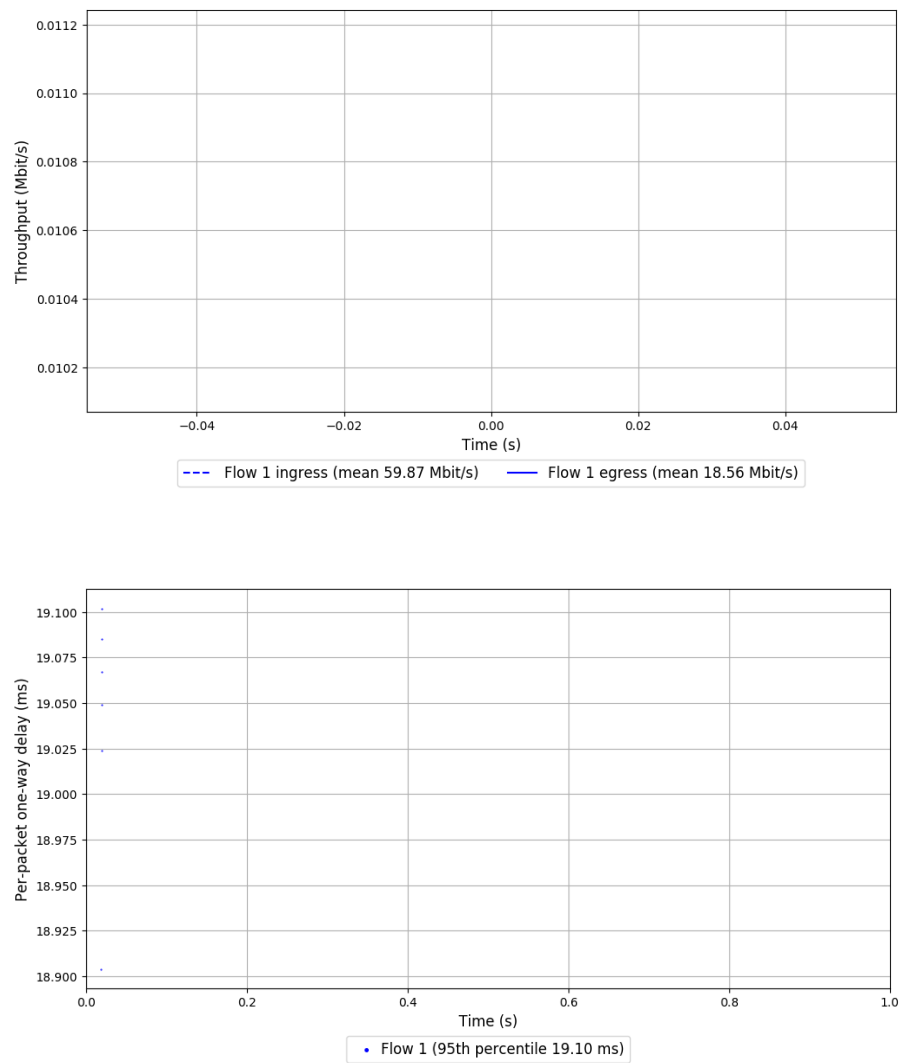
Start at: 2017-11-30 14:14:41

End at: 2017-11-30 14:15:11

Local clock offset: 0.128 ms

Remote clock offset: -1.486 ms

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

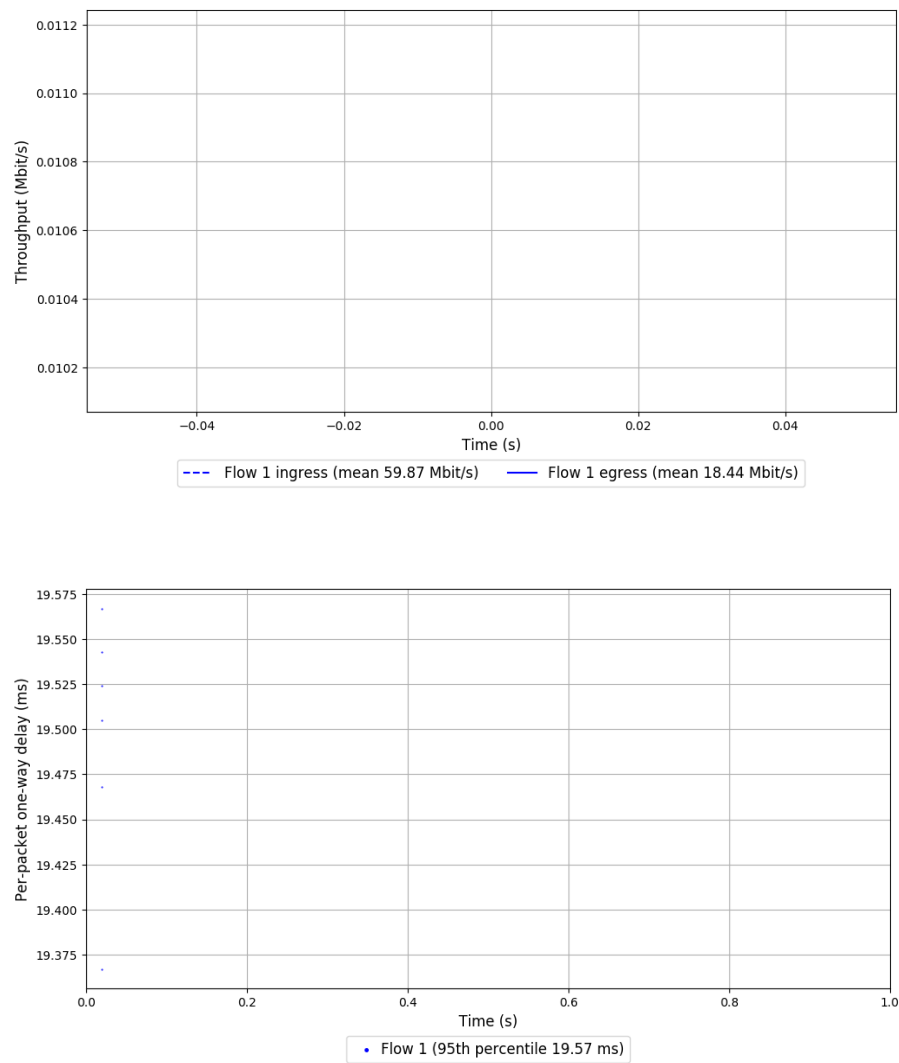
Start at: 2017-11-30 14:33:17

End at: 2017-11-30 14:33:47

Local clock offset: -0.041 ms

Remote clock offset: -1.696 ms

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-30 14:51:56

End at: 2017-11-30 14:52:26

Local clock offset: -0.093 ms

Remote clock offset: -1.939 ms

Run 10: Report of Indigo-calib — Data Link

