

Pantheon Report

Generated at 2017-11-21 08:12:12 (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).

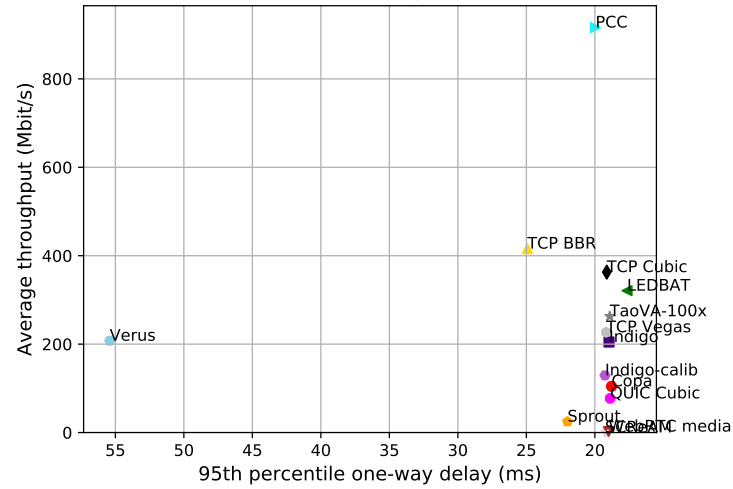
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

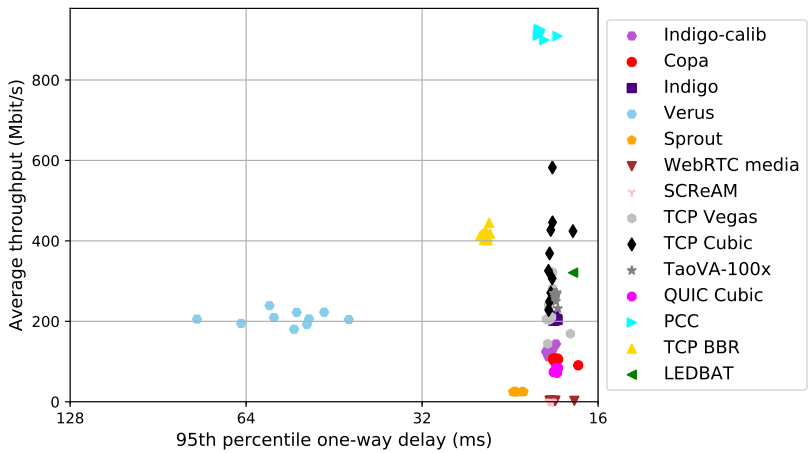
Git summary:

```
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	10	416.00	24.93	8.42
TCP Cubic	10	362.91	19.13	0.06
LEDBAT	1	320.90	17.65	0.00
PCC	8	916.13	19.95	0.29
QUIC Cubic	10	77.29	18.89	0.00
SCReAM	10	0.22	19.26	0.00
WebRTC media	10	2.25	19.00	0.01
Sprout	10	24.73	22.00	0.02
TaoVA-100x	10	263.05	18.91	0.00
TCP Vegas	10	226.85	19.18	0.03
Verus	10	207.62	55.41	18.07
Copa	10	104.53	18.78	0.01
Indigo	10	204.79	18.97	0.01
Indigo-calib	10	129.28	19.26	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-11-21 02:46:04

End at: 2017-11-21 02:46:35

Local clock offset: 1.942 ms

Remote clock offset: -0.747 ms

Below is generated by plot.py at 2017-11-21 07:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.44 Mbit/s

95th percentile per-packet one-way delay: 25.304 ms

Loss rate: 9.52%

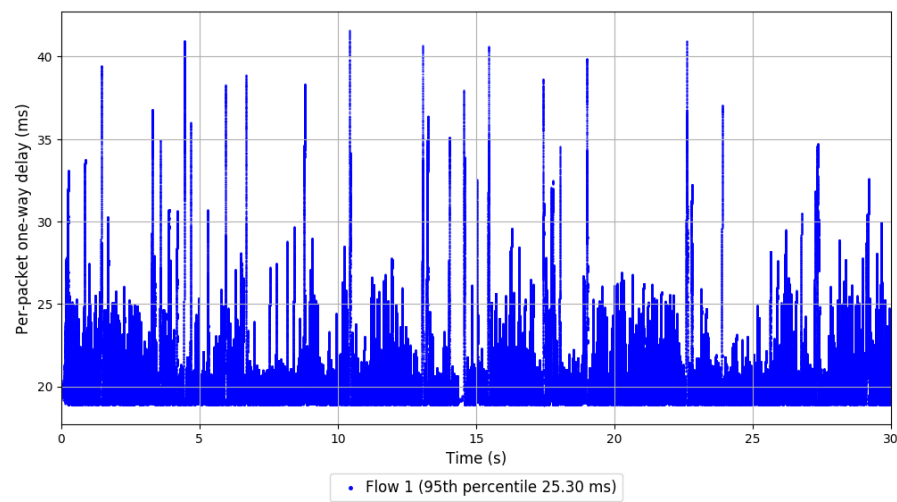
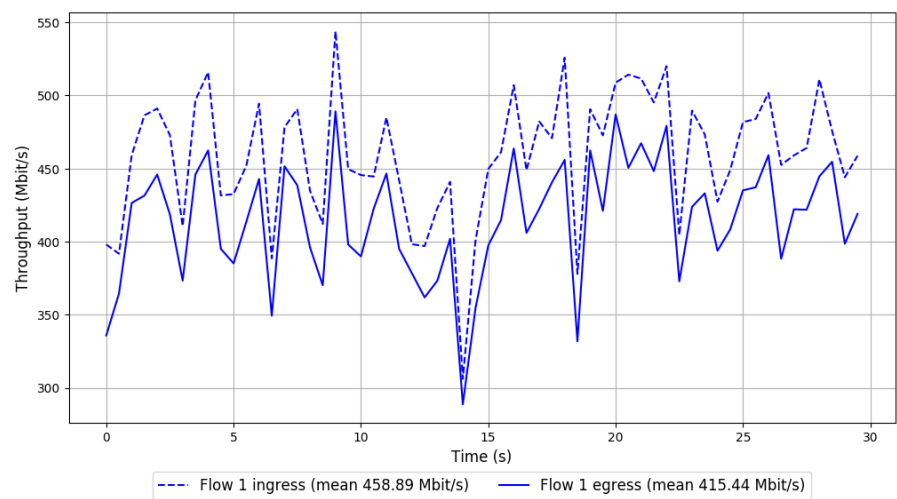
-- Flow 1:

Average throughput: 415.44 Mbit/s

95th percentile per-packet one-way delay: 25.304 ms

Loss rate: 9.52%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-11-21 03:04:56

End at: 2017-11-21 03:05:26

Local clock offset: 1.977 ms

Remote clock offset: -1.136 ms

Below is generated by plot.py at 2017-11-21 07:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.50 Mbit/s

95th percentile per-packet one-way delay: 24.837 ms

Loss rate: 8.29%

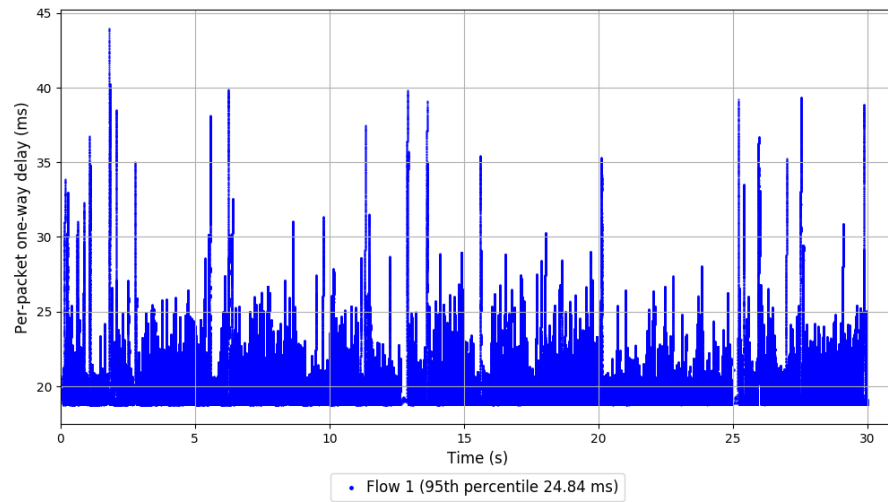
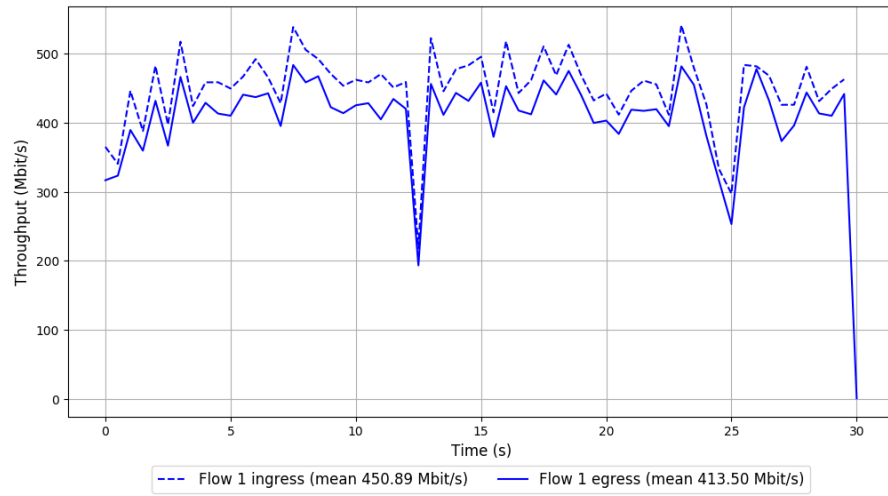
-- Flow 1:

Average throughput: 413.50 Mbit/s

95th percentile per-packet one-way delay: 24.837 ms

Loss rate: 8.29%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2017-11-21 03:23:25

End at: 2017-11-21 03:23:55

Local clock offset: 2.343 ms

Remote clock offset: -1.566 ms

Below is generated by plot.py at 2017-11-21 07:18:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.43 Mbit/s

95th percentile per-packet one-way delay: 24.729 ms

Loss rate: 9.17%

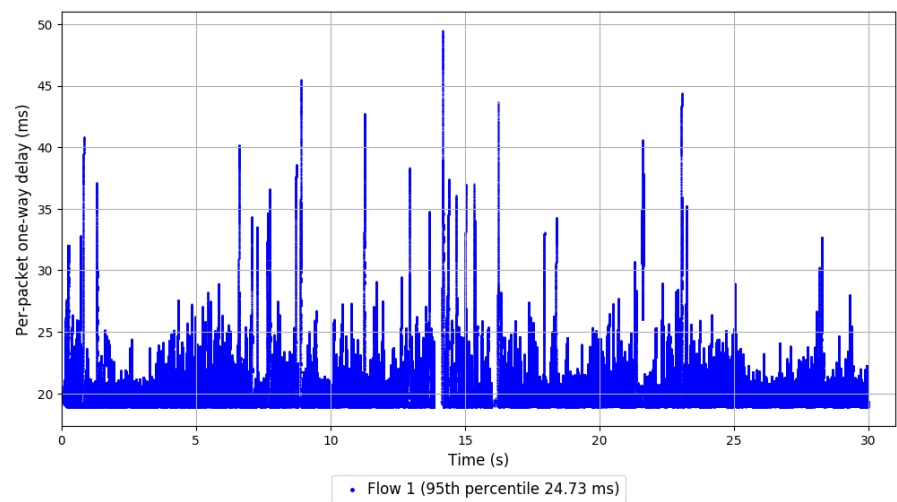
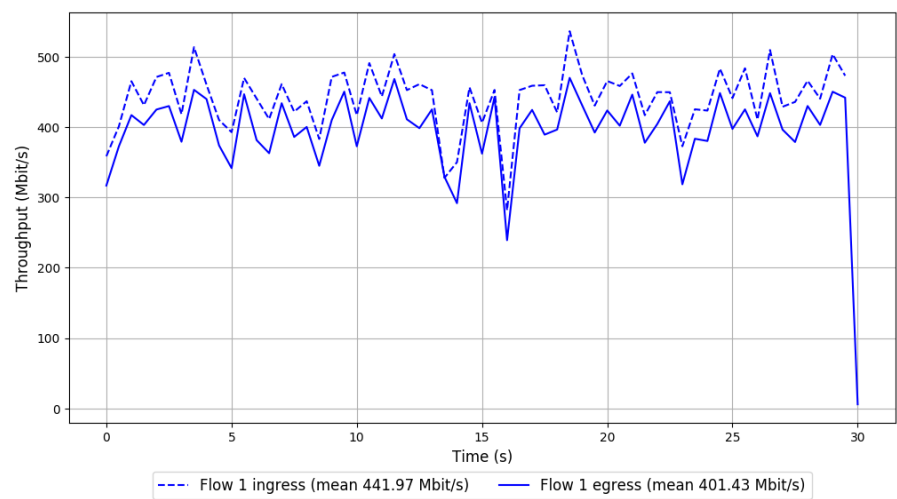
-- Flow 1:

Average throughput: 401.43 Mbit/s

95th percentile per-packet one-way delay: 24.729 ms

Loss rate: 9.17%

Run 3: Report of TCP BBR — Data Link

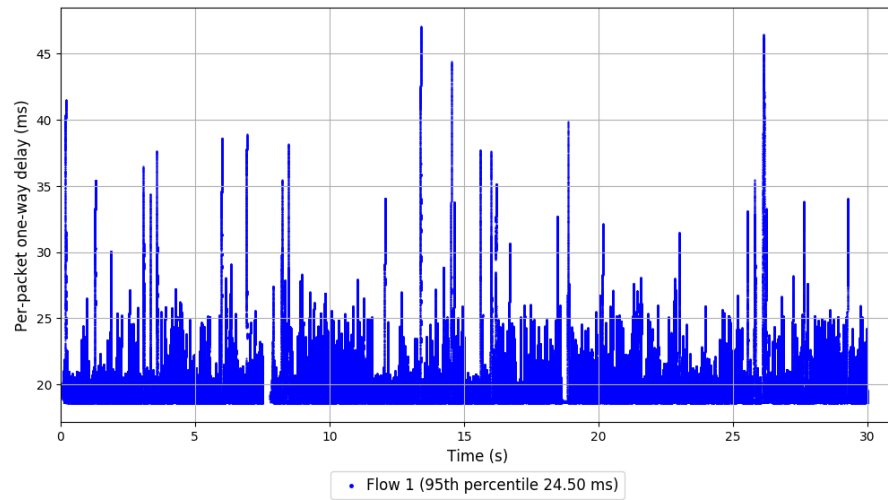
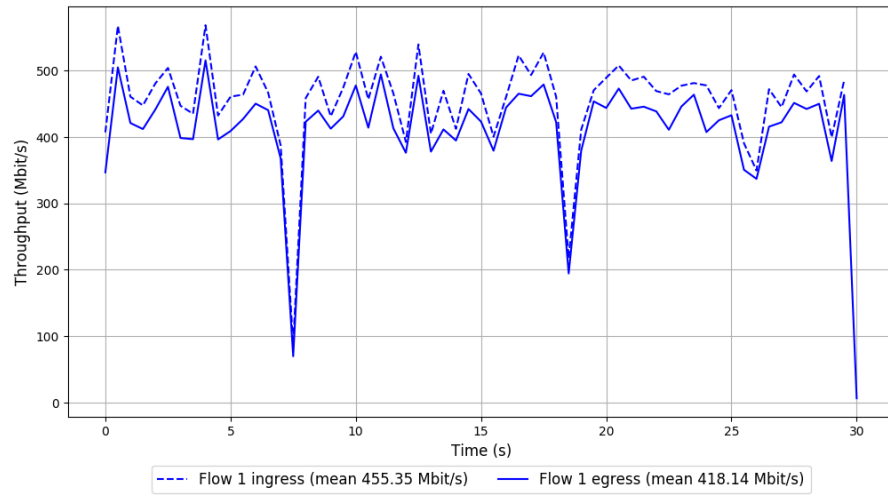


Run 4: Statistics of TCP BBR

Start at: 2017-11-21 03:42:01
End at: 2017-11-21 03:42:31
Local clock offset: 2.298 ms
Remote clock offset: -1.921 ms

Below is generated by plot.py at 2017-11-21 07:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 418.14 Mbit/s
95th percentile per-packet one-way delay: 24.501 ms
Loss rate: 8.17%
-- Flow 1:
Average throughput: 418.14 Mbit/s
95th percentile per-packet one-way delay: 24.501 ms
Loss rate: 8.17%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-11-21 04:00:36

End at: 2017-11-21 04:01:06

Local clock offset: 2.17 ms

Remote clock offset: -1.67 ms

Below is generated by plot.py at 2017-11-21 07:18:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.08 Mbit/s

95th percentile per-packet one-way delay: 25.450 ms

Loss rate: 8.34%

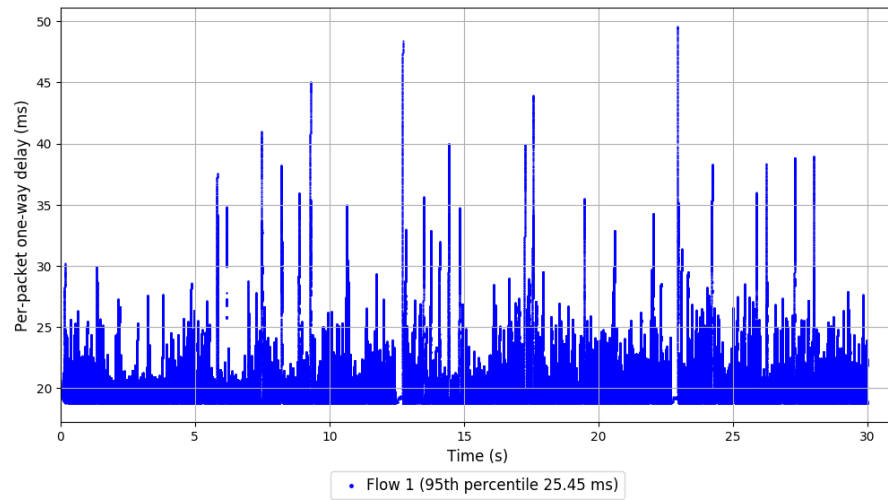
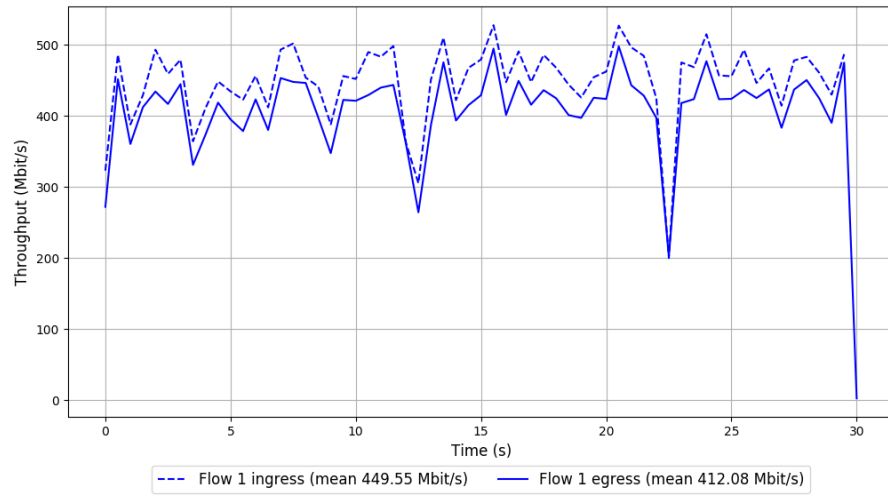
-- Flow 1:

Average throughput: 412.08 Mbit/s

95th percentile per-packet one-way delay: 25.450 ms

Loss rate: 8.34%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-21 04:19:06

End at: 2017-11-21 04:19:36

Local clock offset: 2.274 ms

Remote clock offset: -1.636 ms

Below is generated by plot.py at 2017-11-21 07:18:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.61 Mbit/s

95th percentile per-packet one-way delay: 24.749 ms

Loss rate: 8.47%

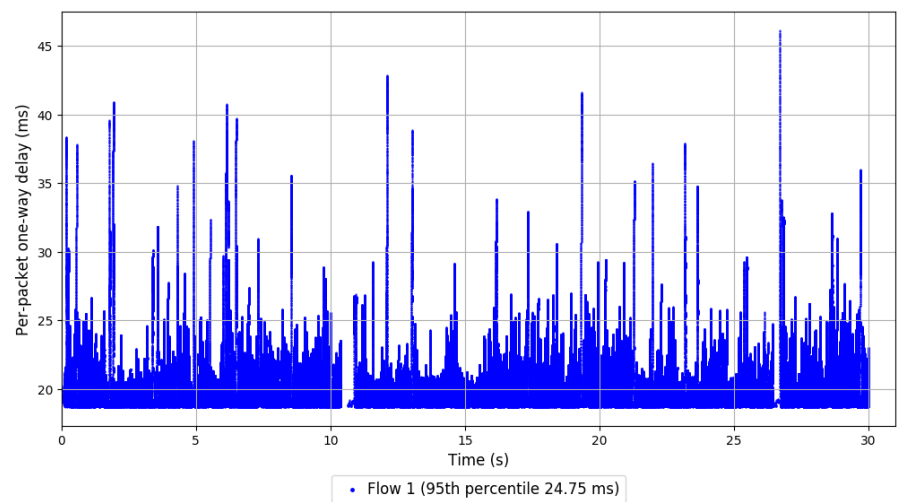
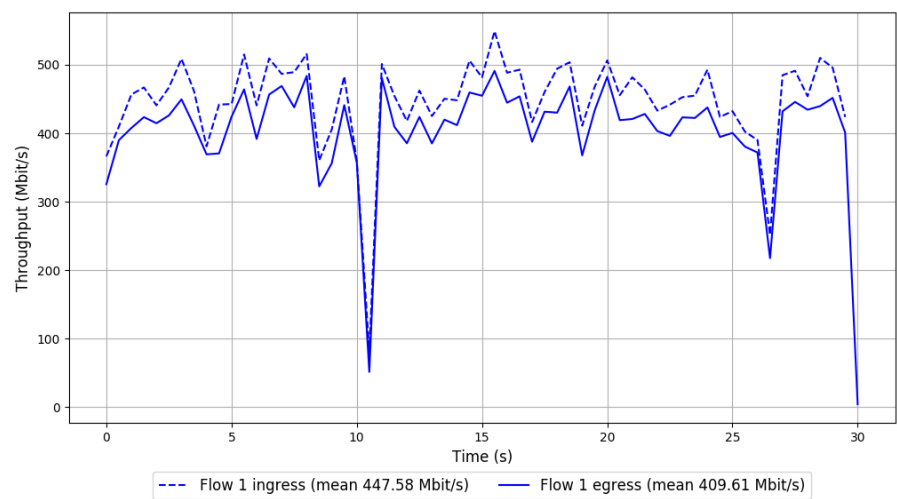
-- Flow 1:

Average throughput: 409.61 Mbit/s

95th percentile per-packet one-way delay: 24.749 ms

Loss rate: 8.47%

Run 6: Report of TCP BBR — Data Link

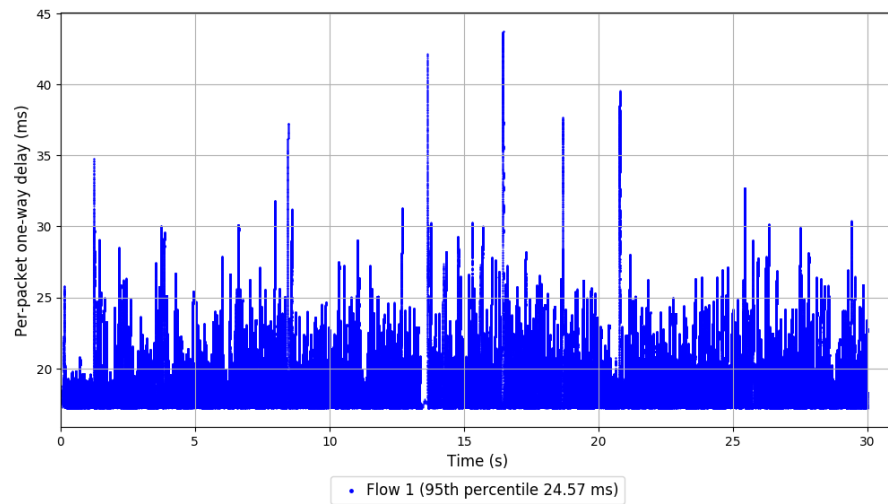
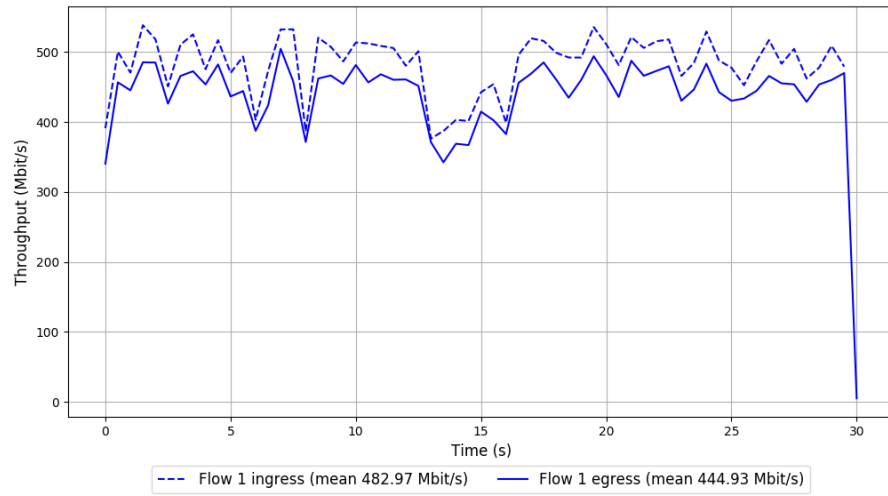


Run 7: Statistics of TCP BBR

Start at: 2017-11-21 04:37:44
End at: 2017-11-21 04:38:14
Local clock offset: 2.477 ms
Remote clock offset: -1.437 ms

Below is generated by plot.py at 2017-11-21 07:18:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 444.93 Mbit/s
95th percentile per-packet one-way delay: 24.572 ms
Loss rate: 7.88%
-- Flow 1:
Average throughput: 444.93 Mbit/s
95th percentile per-packet one-way delay: 24.572 ms
Loss rate: 7.88%

Run 7: Report of TCP BBR — Data Link

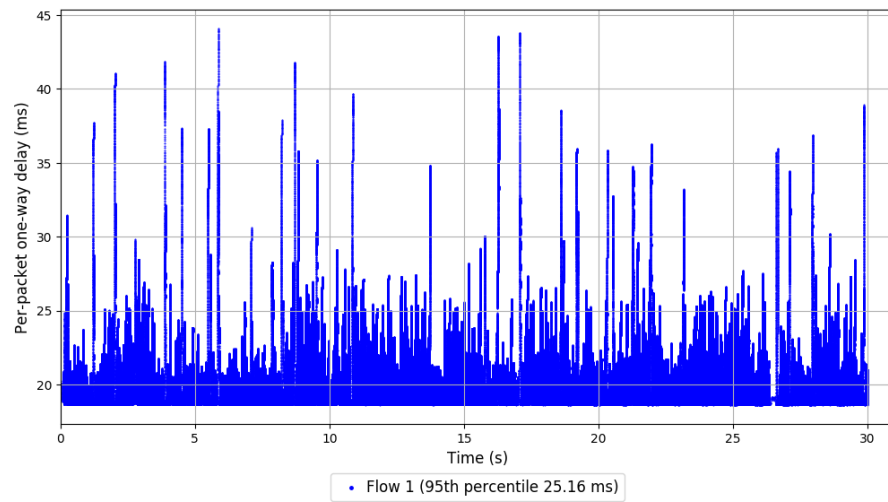
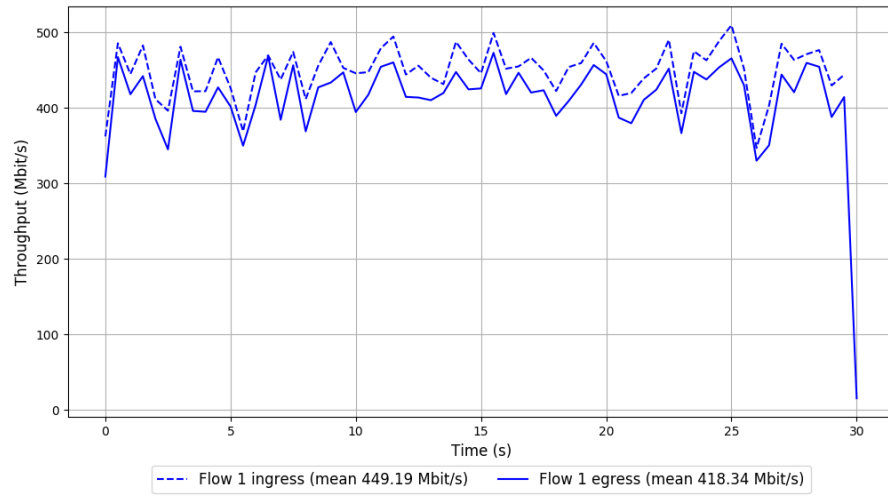


Run 8: Statistics of TCP BBR

Start at: 2017-11-21 04:56:07
End at: 2017-11-21 04:56:37
Local clock offset: 2.308 ms
Remote clock offset: -1.148 ms

Below is generated by plot.py at 2017-11-21 07:18:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 418.34 Mbit/s
95th percentile per-packet one-way delay: 25.160 ms
Loss rate: 6.86%
-- Flow 1:
Average throughput: 418.34 Mbit/s
95th percentile per-packet one-way delay: 25.160 ms
Loss rate: 6.86%

Run 8: Report of TCP BBR — Data Link

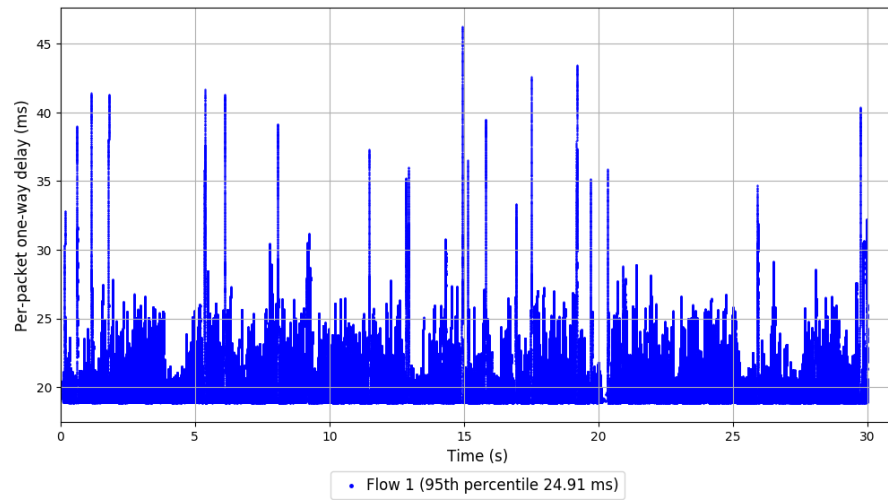
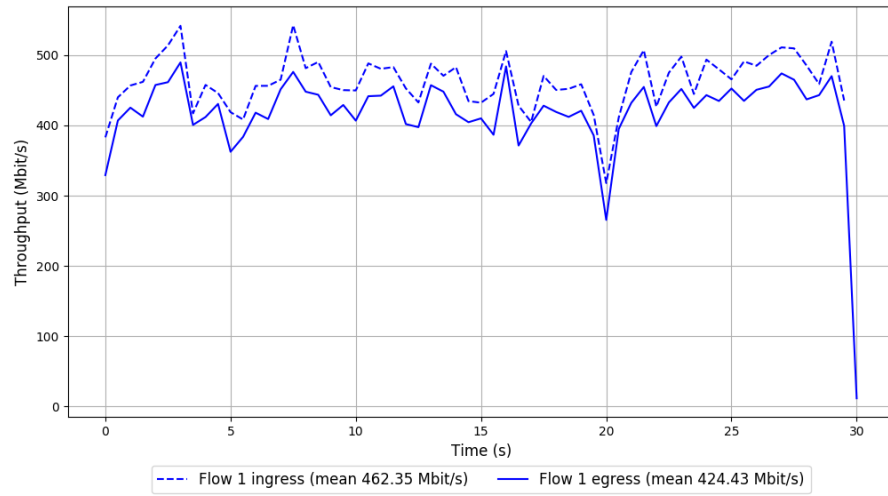


Run 9: Statistics of TCP BBR

Start at: 2017-11-21 05:14:44
End at: 2017-11-21 05:15:15
Local clock offset: 1.563 ms
Remote clock offset: -1.383 ms

Below is generated by plot.py at 2017-11-21 07:23:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 424.43 Mbit/s
95th percentile per-packet one-way delay: 24.913 ms
Loss rate: 8.20%
-- Flow 1:
Average throughput: 424.43 Mbit/s
95th percentile per-packet one-way delay: 24.913 ms
Loss rate: 8.20%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2017-11-21 05:33:14

End at: 2017-11-21 05:33:44

Local clock offset: 1.223 ms

Remote clock offset: -1.47 ms

Below is generated by plot.py at 2017-11-21 07:23:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.15 Mbit/s

95th percentile per-packet one-way delay: 25.073 ms

Loss rate: 9.31%

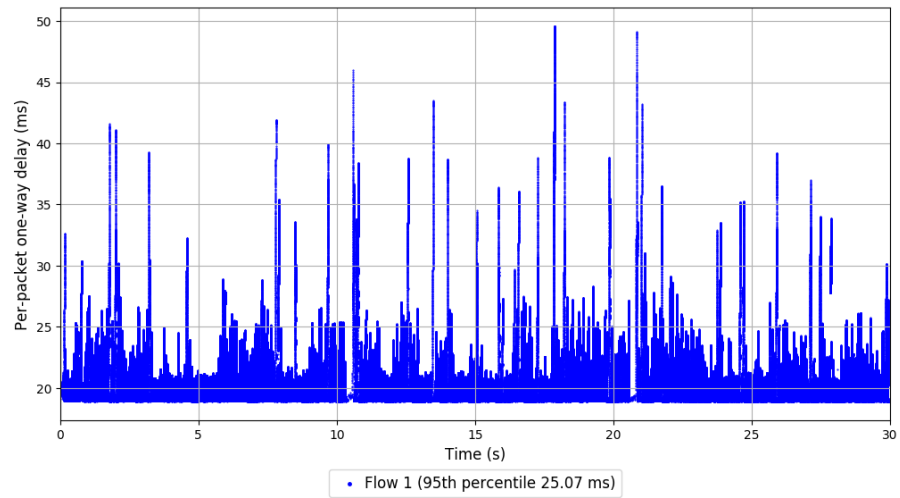
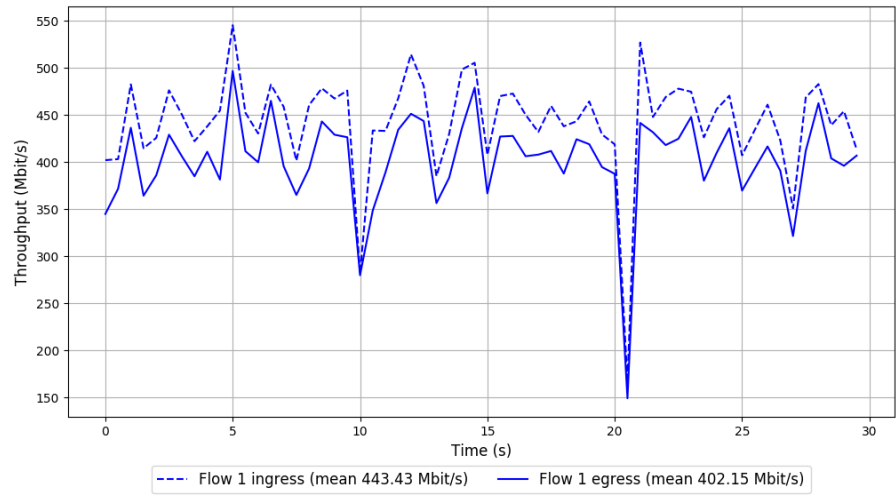
-- Flow 1:

Average throughput: 402.15 Mbit/s

95th percentile per-packet one-way delay: 25.073 ms

Loss rate: 9.31%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-11-21 02:47:36

End at: 2017-11-21 02:48:06

Local clock offset: 1.949 ms

Remote clock offset: -0.78 ms

Below is generated by plot.py at 2017-11-21 07:26:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 582.53 Mbit/s

95th percentile per-packet one-way delay: 19.153 ms

Loss rate: 0.04%

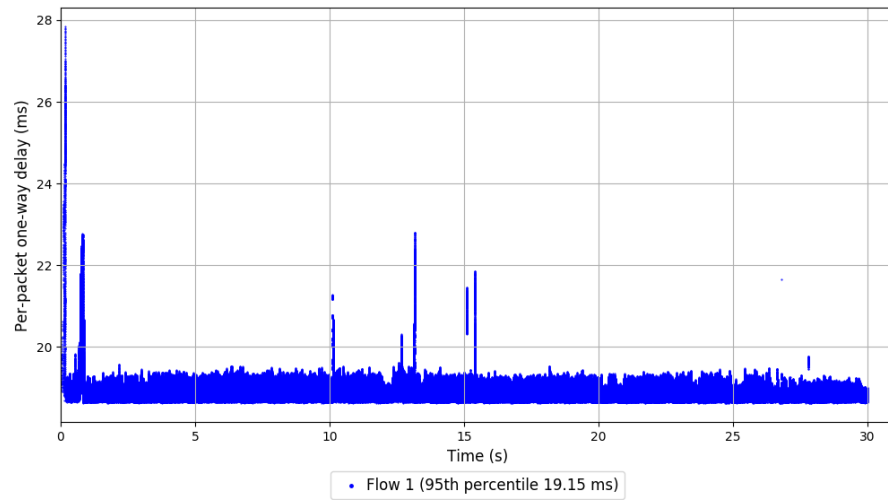
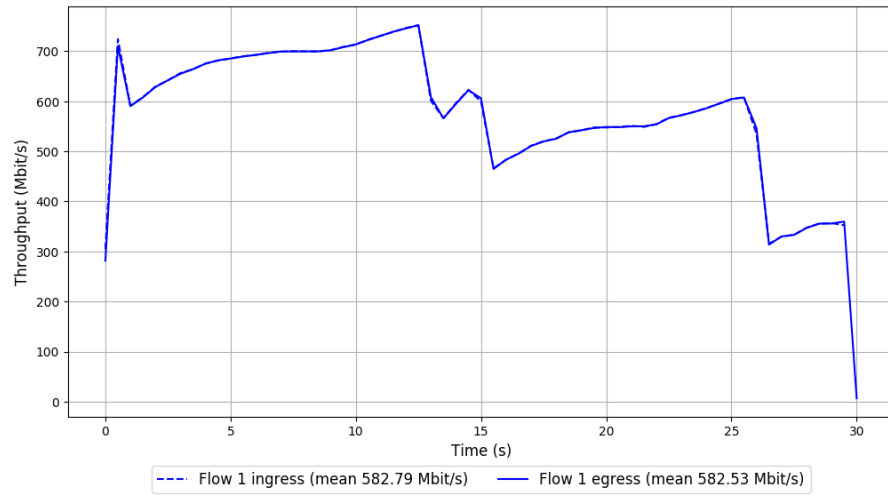
-- Flow 1:

Average throughput: 582.53 Mbit/s

95th percentile per-packet one-way delay: 19.153 ms

Loss rate: 0.04%

Run 1: Report of TCP Cubic — Data Link

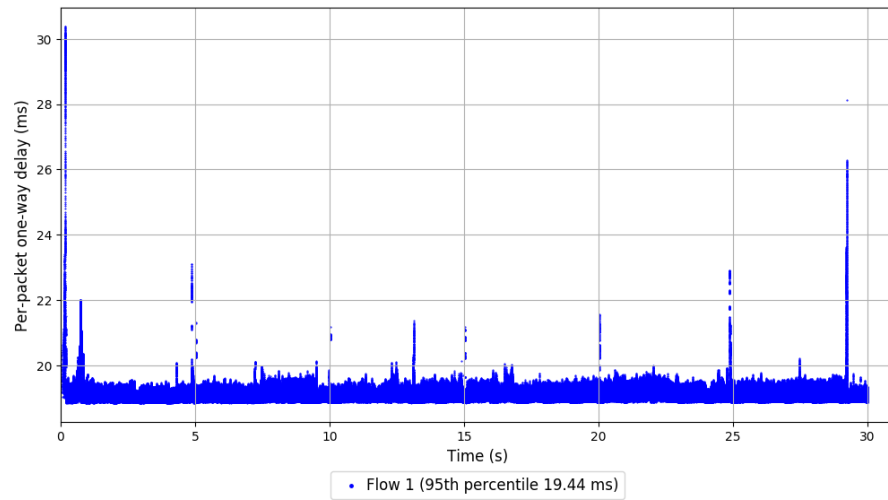
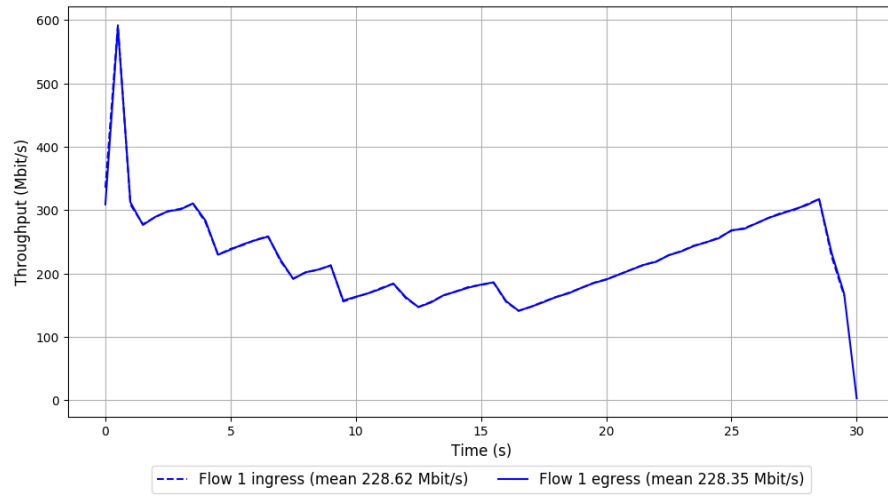


Run 2: Statistics of TCP Cubic

Start at: 2017-11-21 03:06:27
End at: 2017-11-21 03:06:57
Local clock offset: 2.097 ms
Remote clock offset: -1.225 ms

Below is generated by plot.py at 2017-11-21 07:26:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.35 Mbit/s
95th percentile per-packet one-way delay: 19.436 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 228.35 Mbit/s
95th percentile per-packet one-way delay: 19.436 ms
Loss rate: 0.12%

Run 2: Report of TCP Cubic — Data Link

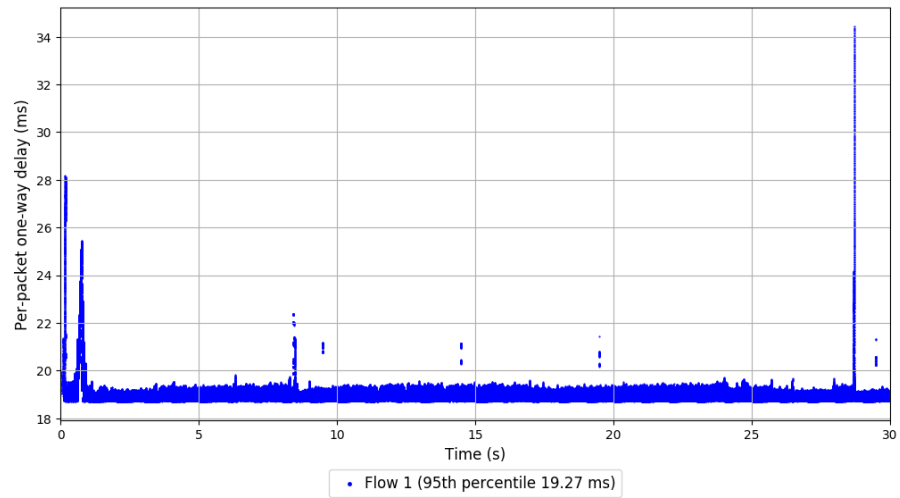
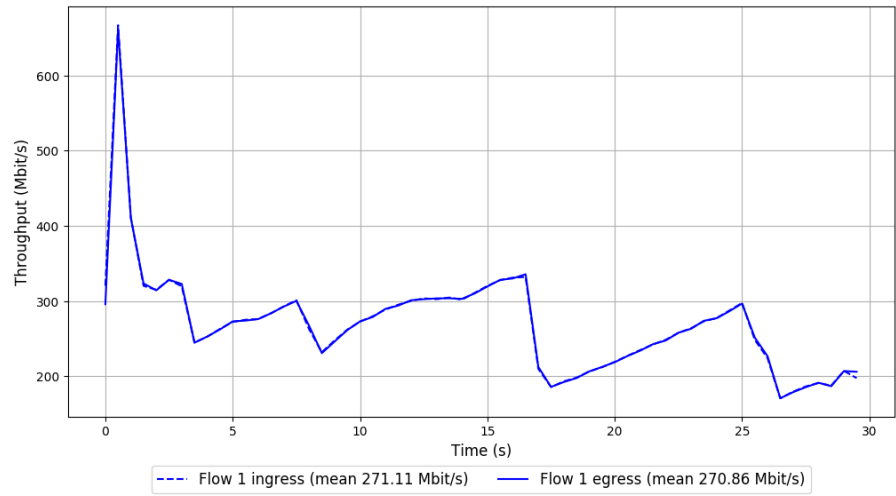


Run 3: Statistics of TCP Cubic

Start at: 2017-11-21 03:24:56
End at: 2017-11-21 03:25:26
Local clock offset: 2.354 ms
Remote clock offset: -1.587 ms

Below is generated by plot.py at 2017-11-21 07:26:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 270.86 Mbit/s
95th percentile per-packet one-way delay: 19.273 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 270.86 Mbit/s
95th percentile per-packet one-way delay: 19.273 ms
Loss rate: 0.09%

Run 3: Report of TCP Cubic — Data Link

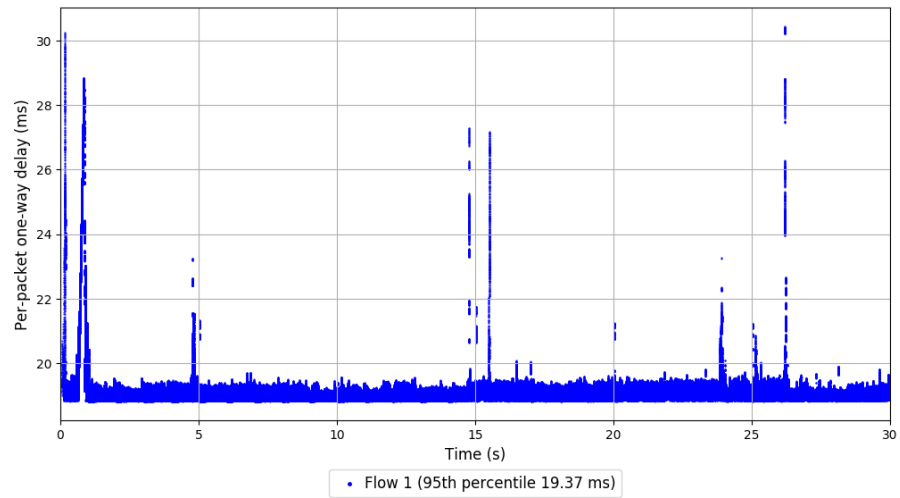
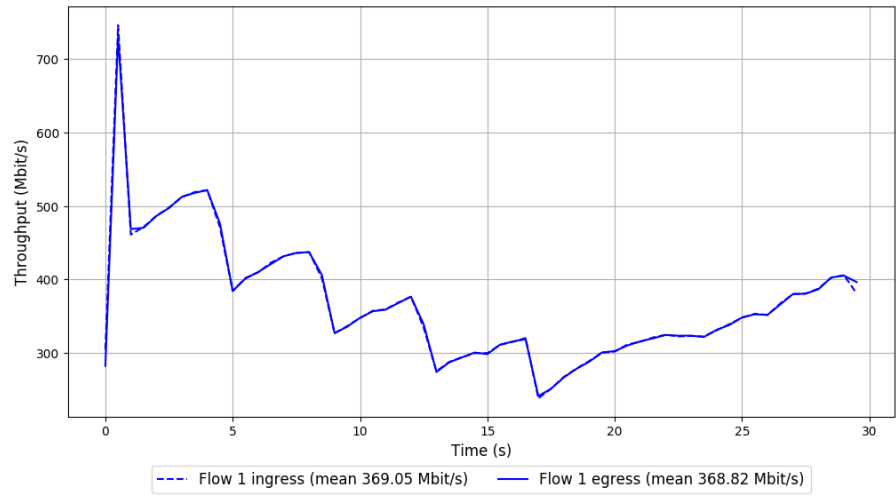


Run 4: Statistics of TCP Cubic

Start at: 2017-11-21 03:43:32
End at: 2017-11-21 03:44:02
Local clock offset: 2.279 ms
Remote clock offset: -1.959 ms

Below is generated by plot.py at 2017-11-21 07:26:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 368.82 Mbit/s
95th percentile per-packet one-way delay: 19.366 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 368.82 Mbit/s
95th percentile per-packet one-way delay: 19.366 ms
Loss rate: 0.06%

Run 4: Report of TCP Cubic — Data Link

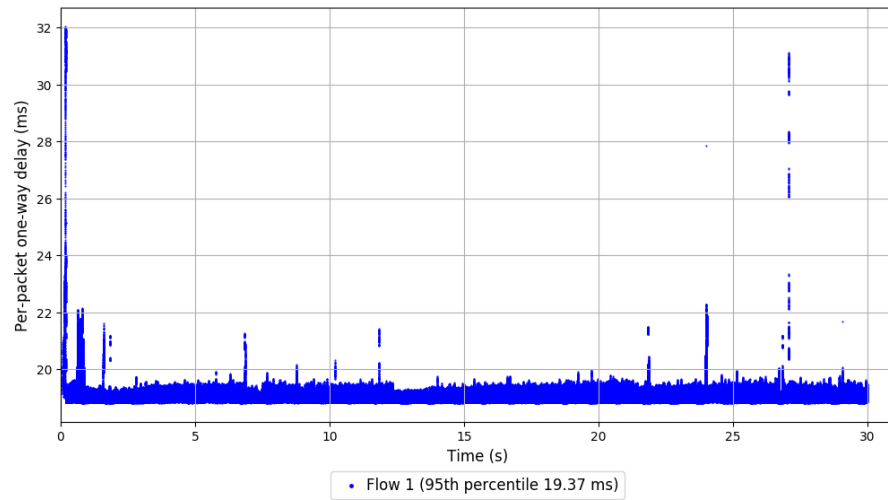
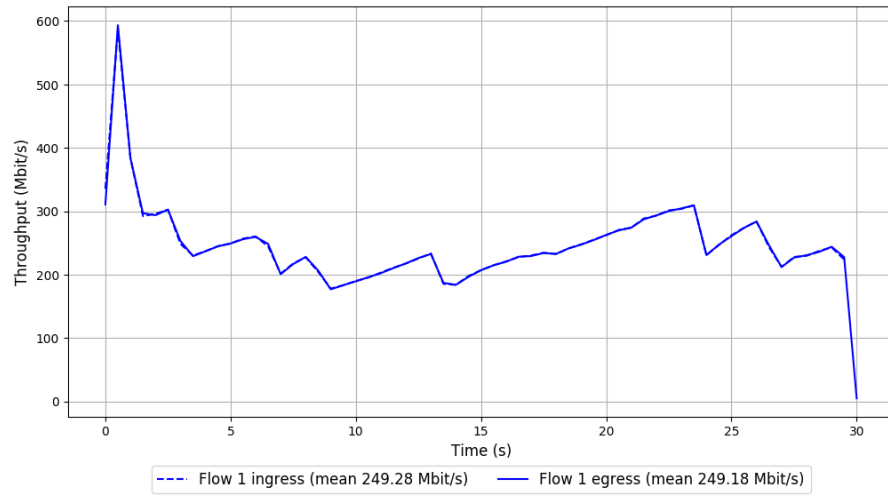


Run 5: Statistics of TCP Cubic

Start at: 2017-11-21 04:02:07
End at: 2017-11-21 04:02:37
Local clock offset: 2.261 ms
Remote clock offset: -1.754 ms

Below is generated by plot.py at 2017-11-21 07:26:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 249.18 Mbit/s
95th percentile per-packet one-way delay: 19.373 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 249.18 Mbit/s
95th percentile per-packet one-way delay: 19.373 ms
Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link

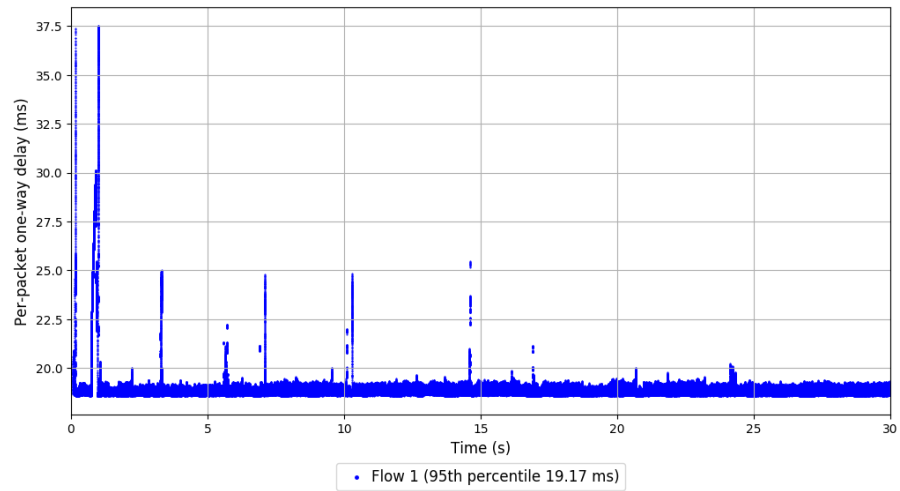
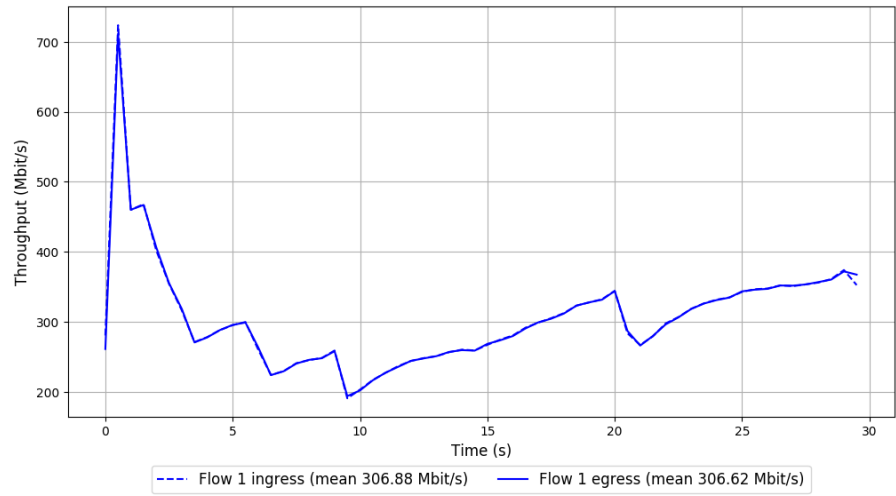


Run 6: Statistics of TCP Cubic

Start at: 2017-11-21 04:20:38
End at: 2017-11-21 04:21:08
Local clock offset: 2.363 ms
Remote clock offset: -1.683 ms

Below is generated by plot.py at 2017-11-21 07:26:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 306.62 Mbit/s
95th percentile per-packet one-way delay: 19.171 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 306.62 Mbit/s
95th percentile per-packet one-way delay: 19.171 ms
Loss rate: 0.08%

Run 6: Report of TCP Cubic — Data Link

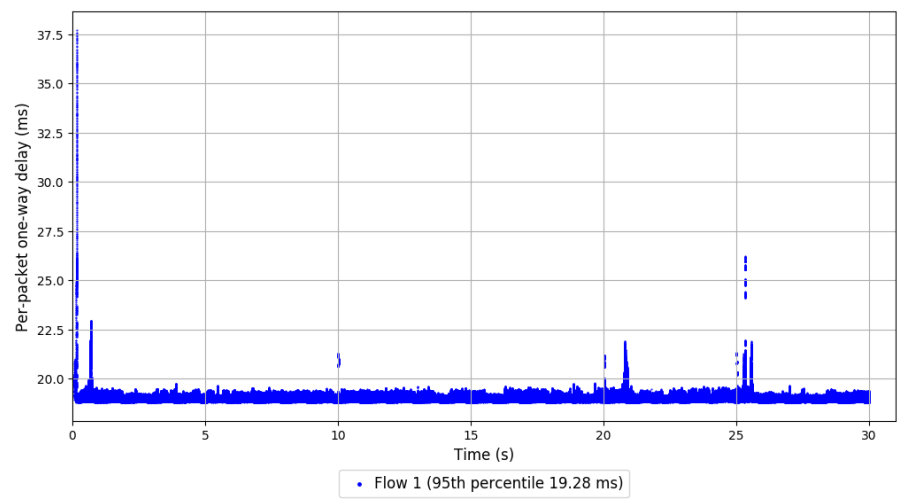
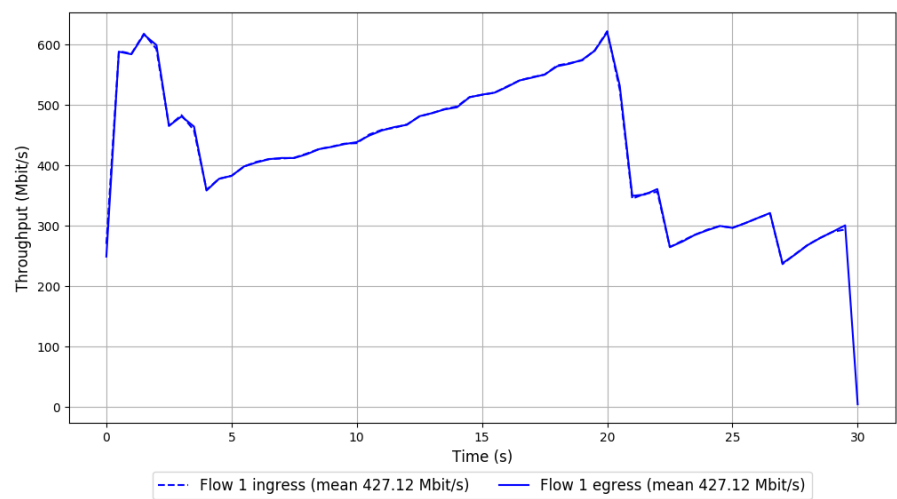


Run 7: Statistics of TCP Cubic

Start at: 2017-11-21 04:39:17
End at: 2017-11-21 04:39:47
Local clock offset: 2.464 ms
Remote clock offset: -1.459 ms

Below is generated by plot.py at 2017-11-21 07:27:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 427.12 Mbit/s
95th percentile per-packet one-way delay: 19.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 427.12 Mbit/s
95th percentile per-packet one-way delay: 19.277 ms
Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

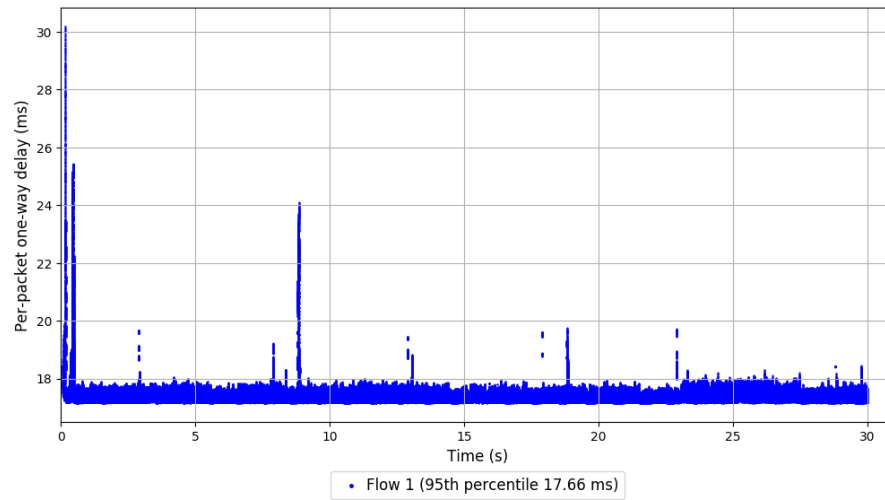
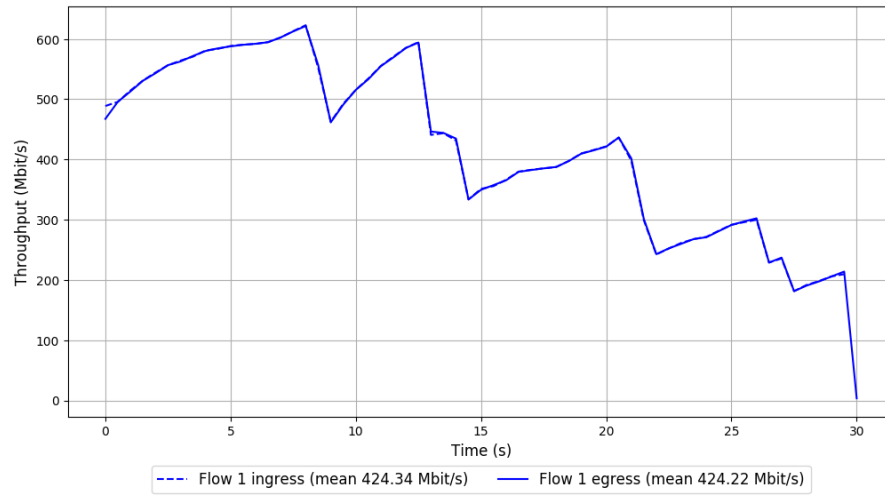


Run 8: Statistics of TCP Cubic

Start at: 2017-11-21 04:57:38
End at: 2017-11-21 04:58:08
Local clock offset: 2.331 ms
Remote clock offset: -1.092 ms

Below is generated by plot.py at 2017-11-21 07:28:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 424.22 Mbit/s
95th percentile per-packet one-way delay: 17.663 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 424.22 Mbit/s
95th percentile per-packet one-way delay: 17.663 ms
Loss rate: 0.03%

Run 8: Report of TCP Cubic — Data Link

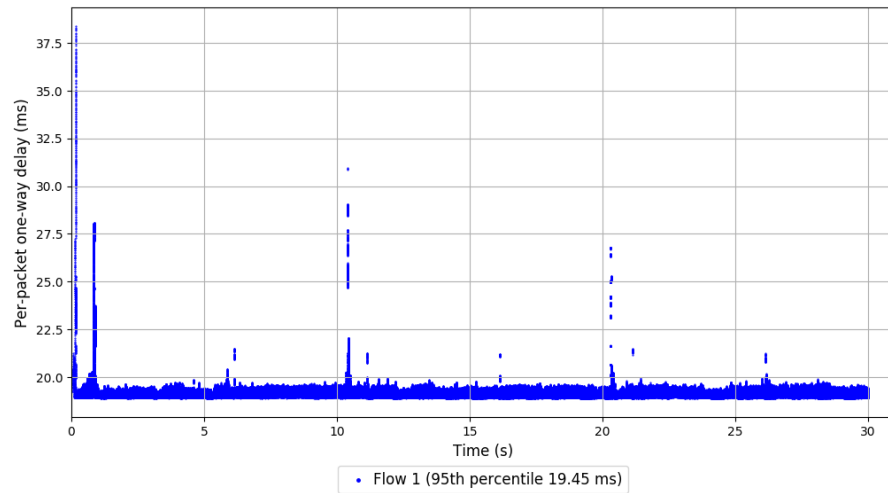
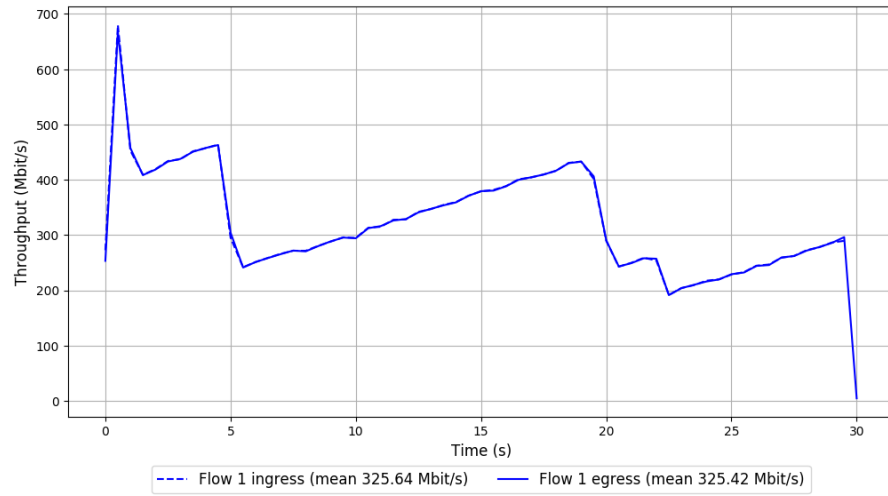


Run 9: Statistics of TCP Cubic

Start at: 2017-11-21 05:16:17
End at: 2017-11-21 05:16:47
Local clock offset: 1.522 ms
Remote clock offset: -1.326 ms

Below is generated by plot.py at 2017-11-21 07:28:18
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.42 Mbit/s
95th percentile per-packet one-way delay: 19.451 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 325.42 Mbit/s
95th percentile per-packet one-way delay: 19.451 ms
Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-21 05:34:44

End at: 2017-11-21 05:35:14

Local clock offset: 1.114 ms

Remote clock offset: -1.567 ms

Below is generated by plot.py at 2017-11-21 07:29:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.01 Mbit/s

95th percentile per-packet one-way delay: 19.145 ms

Loss rate: 0.03%

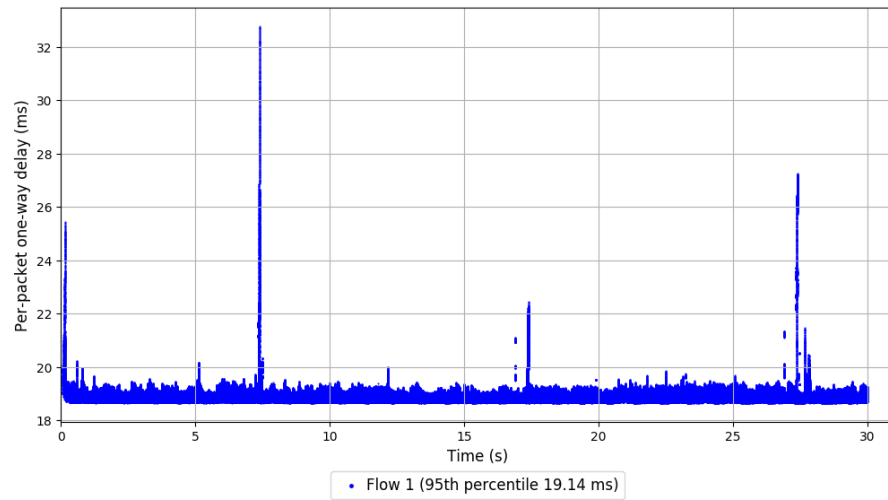
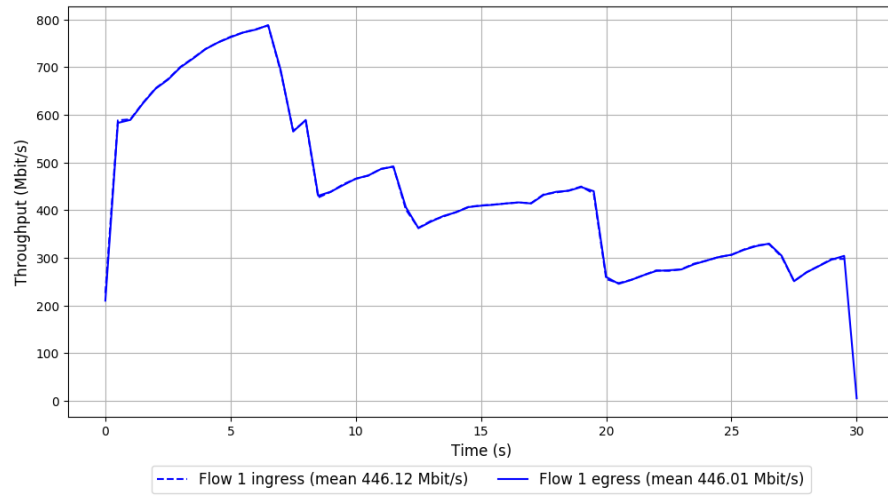
-- Flow 1:

Average throughput: 446.01 Mbit/s

95th percentile per-packet one-way delay: 19.145 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of LEDBAT

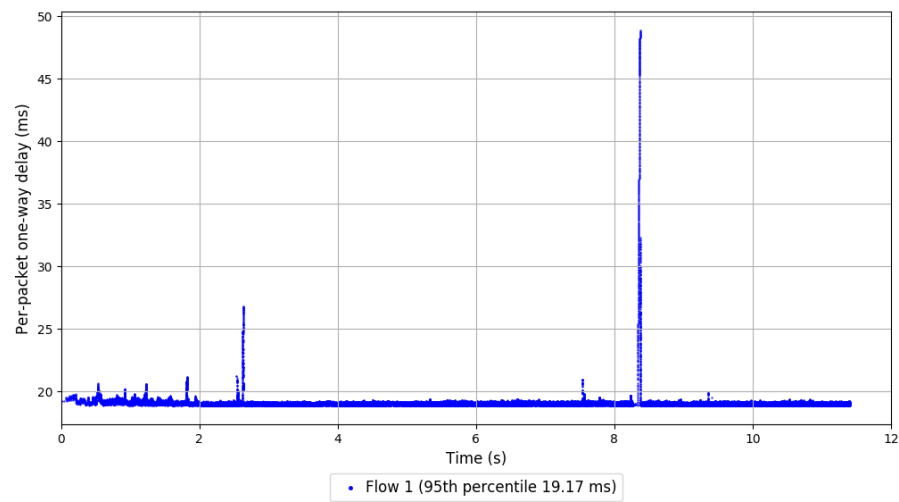
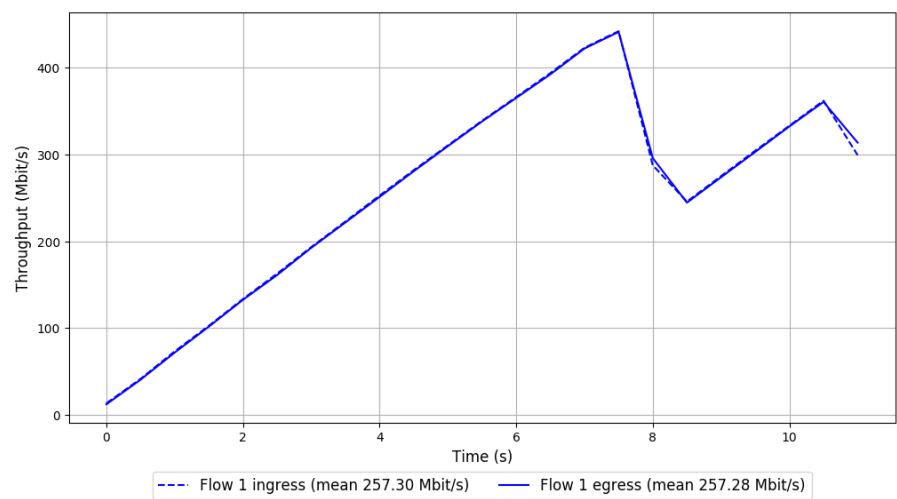
Start at: 2017-11-21 02:42:28

End at: 2017-11-21 02:42:58

Local clock offset: 1.839 ms

Remote clock offset: -0.849 ms

Run 1: Report of LEDBAT — Data Link

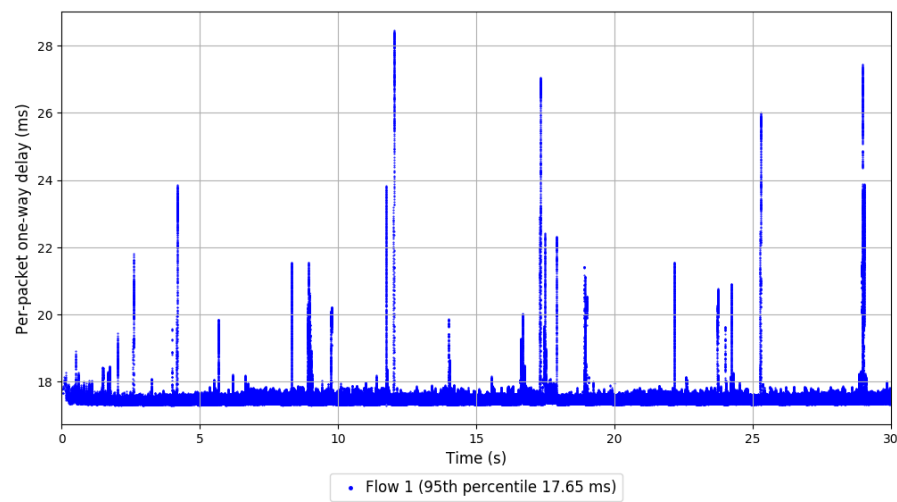
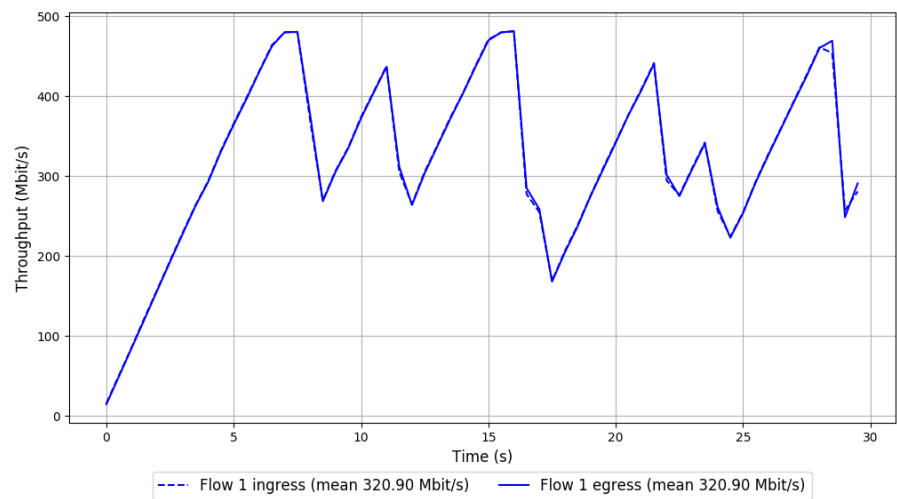


Run 2: Statistics of LEDBAT

Start at: 2017-11-21 03:01:08
End at: 2017-11-21 03:01:38
Local clock offset: 1.99 ms
Remote clock offset: -0.945 ms

Below is generated by plot.py at 2017-11-21 07:29:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.90 Mbit/s
95th percentile per-packet one-way delay: 17.653 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 320.90 Mbit/s
95th percentile per-packet one-way delay: 17.653 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

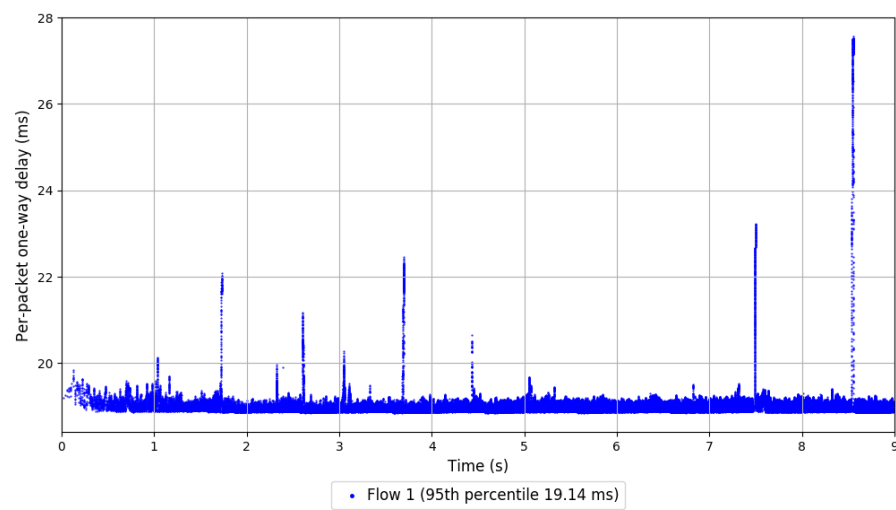
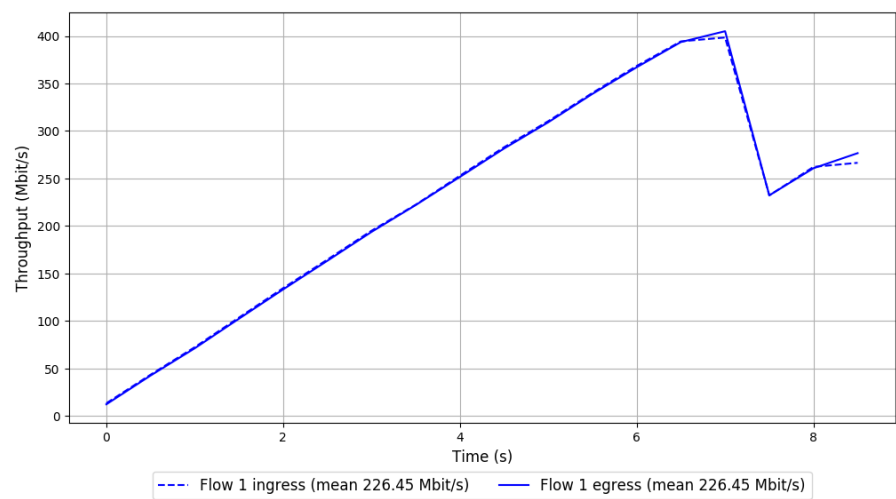
Start at: 2017-11-21 03:19:50

End at: 2017-11-21 03:20:20

Local clock offset: 2.368 ms

Remote clock offset: -1.47 ms

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

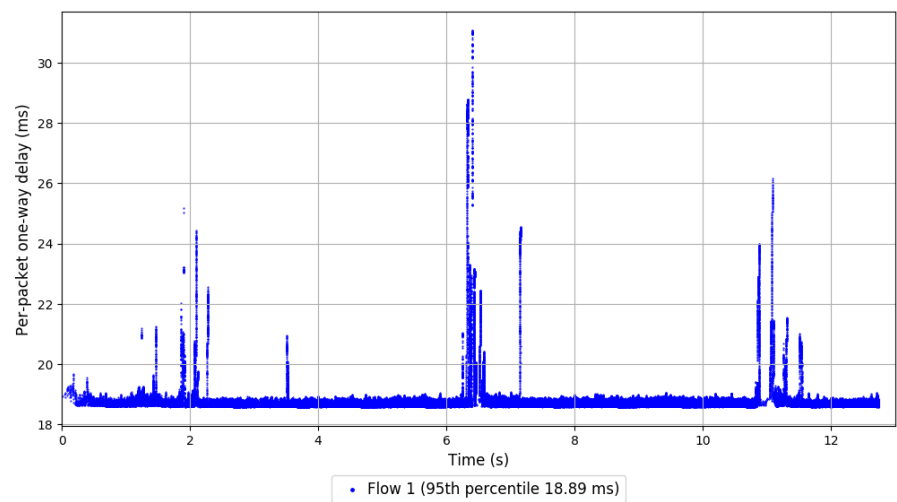
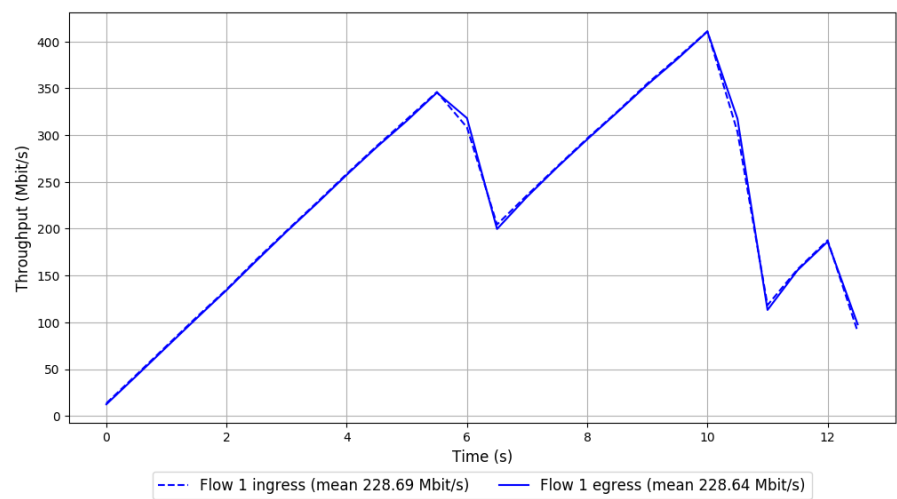
Start at: 2017-11-21 03:38:24

End at: 2017-11-21 03:38:54

Local clock offset: 2.315 ms

Remote clock offset: -1.826 ms

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

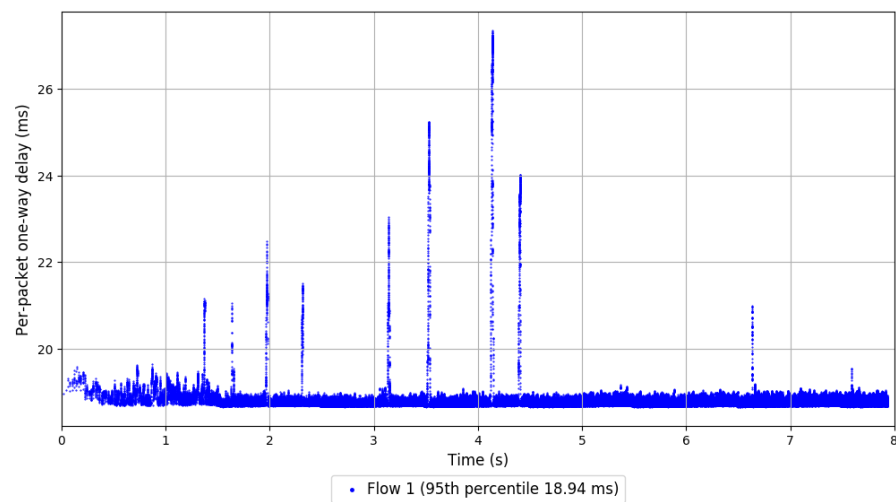
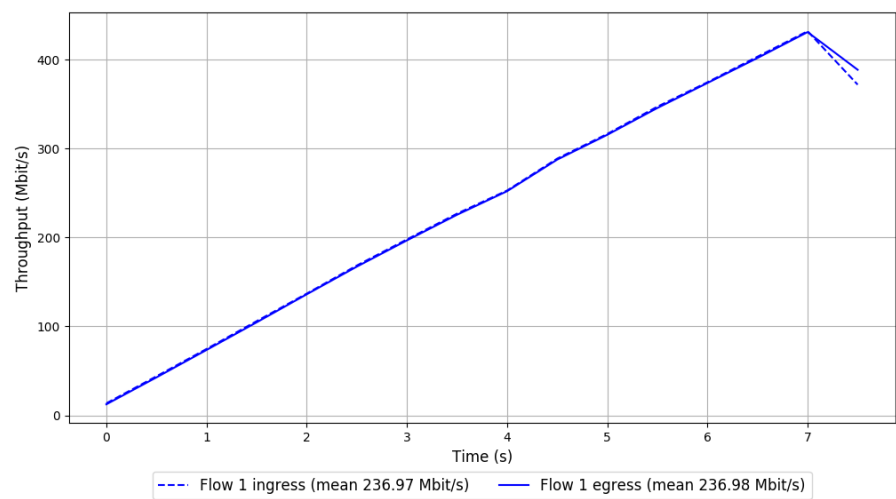
Start at: 2017-11-21 03:57:02

End at: 2017-11-21 03:57:32

Local clock offset: 2.171 ms

Remote clock offset: -1.786 ms

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

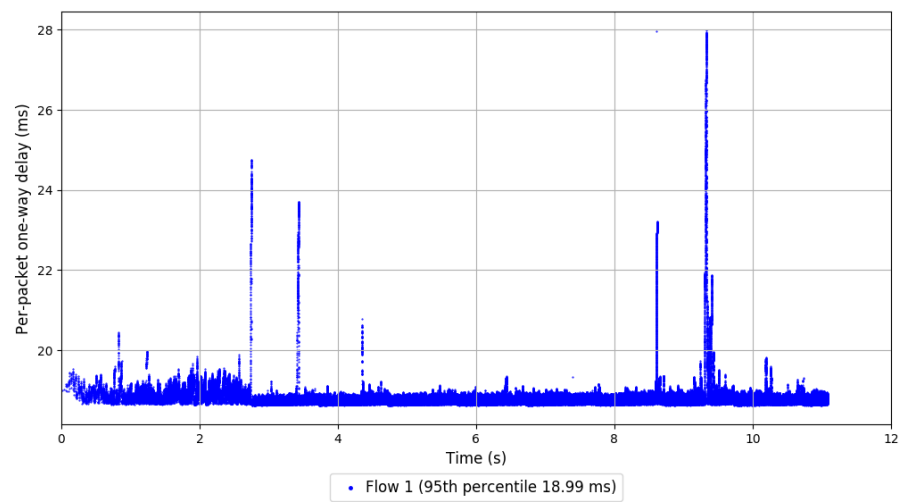
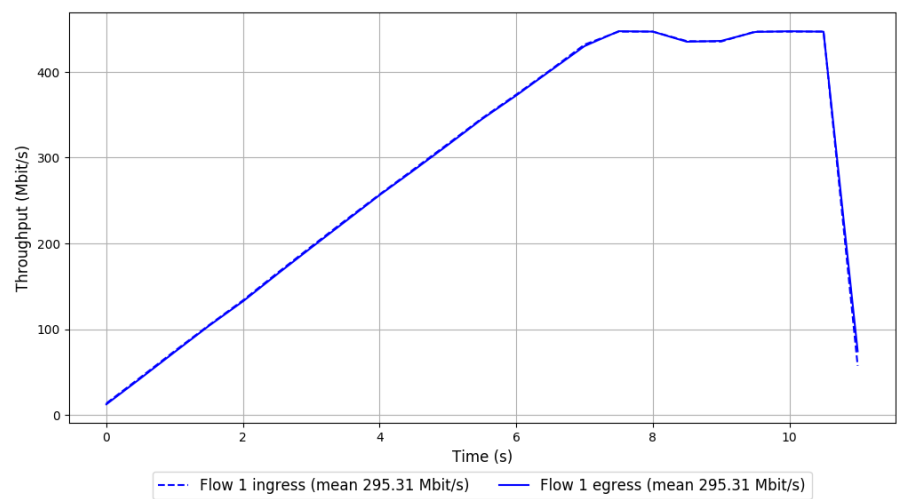
Start at: 2017-11-21 04:15:29

End at: 2017-11-21 04:15:59

Local clock offset: 2.342 ms

Remote clock offset: -1.649 ms

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

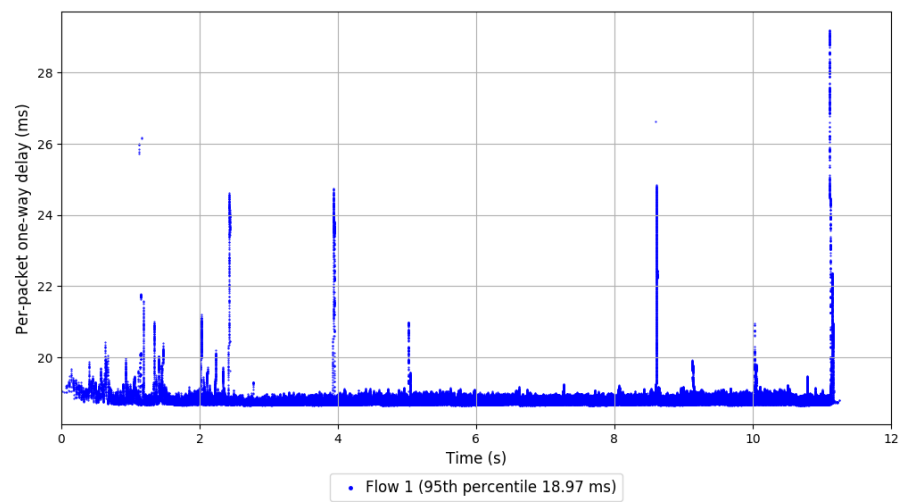
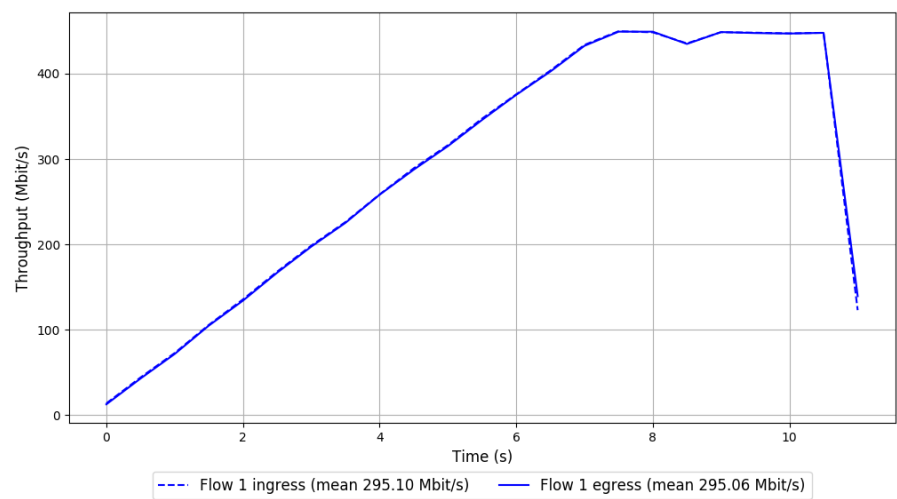
Start at: 2017-11-21 04:34:07

End at: 2017-11-21 04:34:37

Local clock offset: 2.429 ms

Remote clock offset: -1.41 ms

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

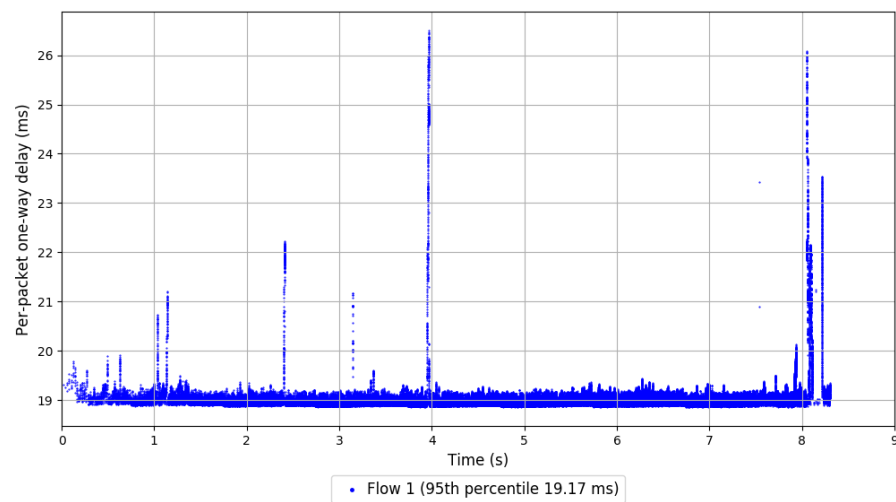
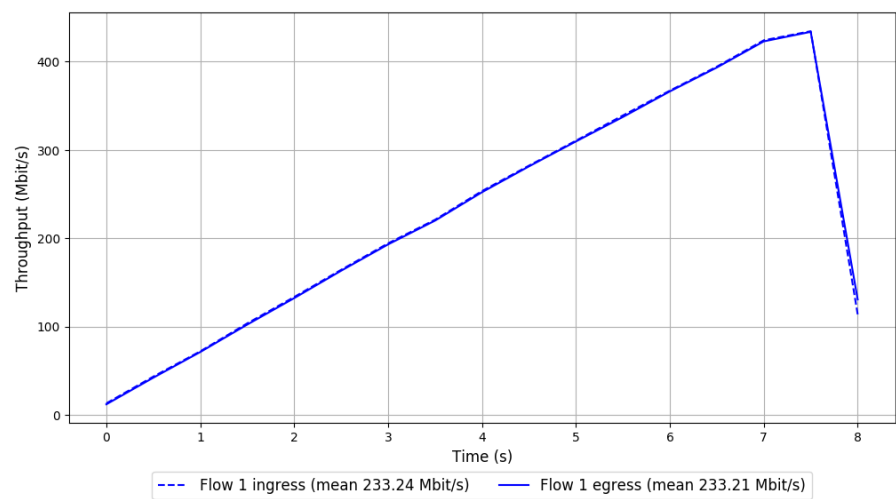
Start at: 2017-11-21 04:52:32

End at: 2017-11-21 04:53:02

Local clock offset: 2.488 ms

Remote clock offset: -1.163 ms

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

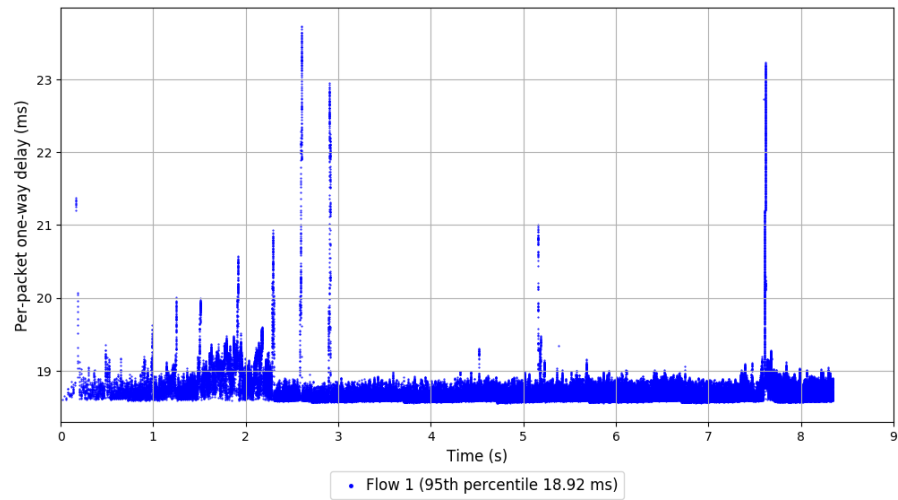
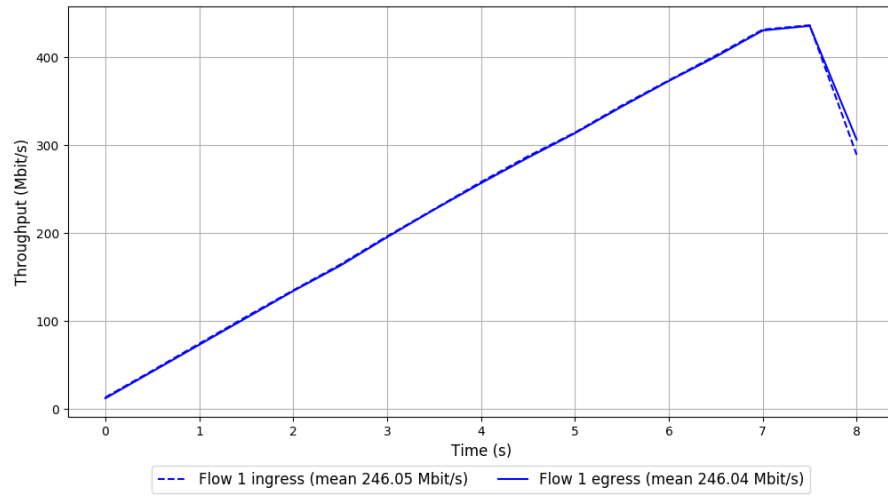
Start at: 2017-11-21 05:11:10

End at: 2017-11-21 05:11:40

Local clock offset: 1.782 ms

Remote clock offset: -1.367 ms

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

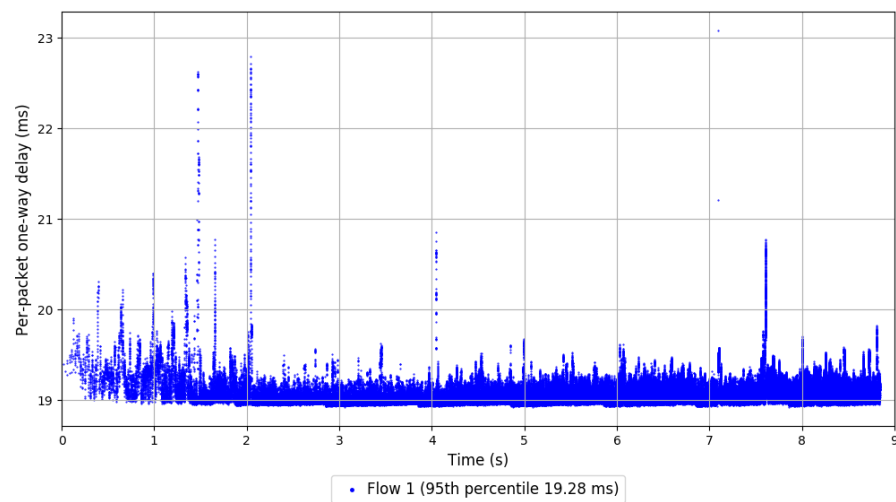
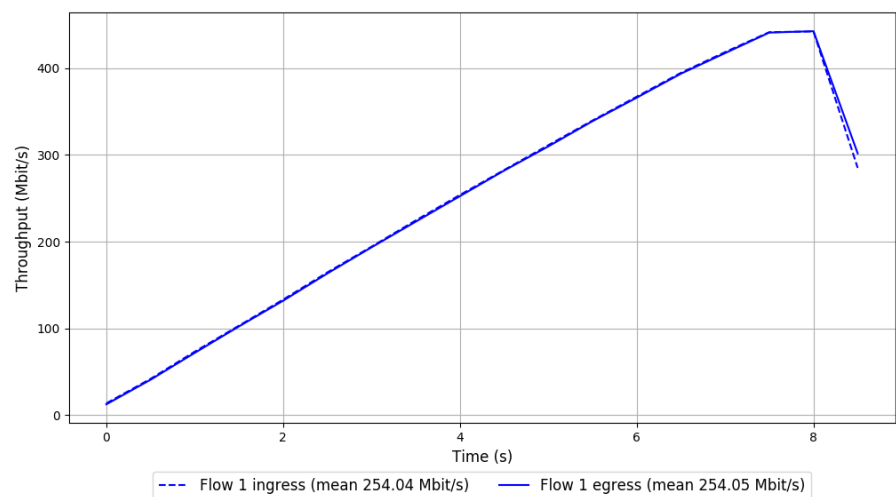
Start at: 2017-11-21 05:29:39

End at: 2017-11-21 05:30:09

Local clock offset: 1.177 ms

Remote clock offset: -1.541 ms

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

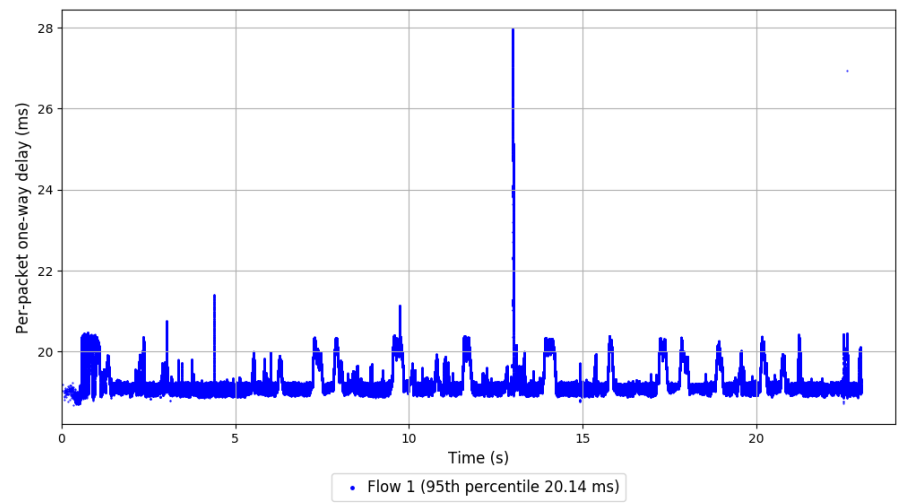
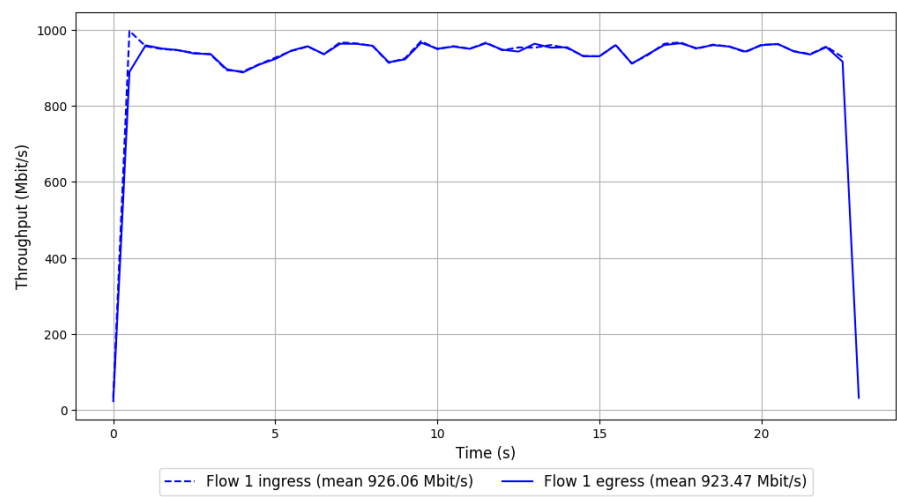
Start at: 2017-11-21 02:50:27

End at: 2017-11-21 02:50:57

Local clock offset: 1.837 ms

Remote clock offset: -0.827 ms

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-11-21 03:09:03

End at: 2017-11-21 03:09:34

Local clock offset: 2.156 ms

Remote clock offset: -1.33 ms

Below is generated by plot.py at 2017-11-21 07:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.13 Mbit/s

95th percentile per-packet one-way delay: 20.149 ms

Loss rate: 0.25%

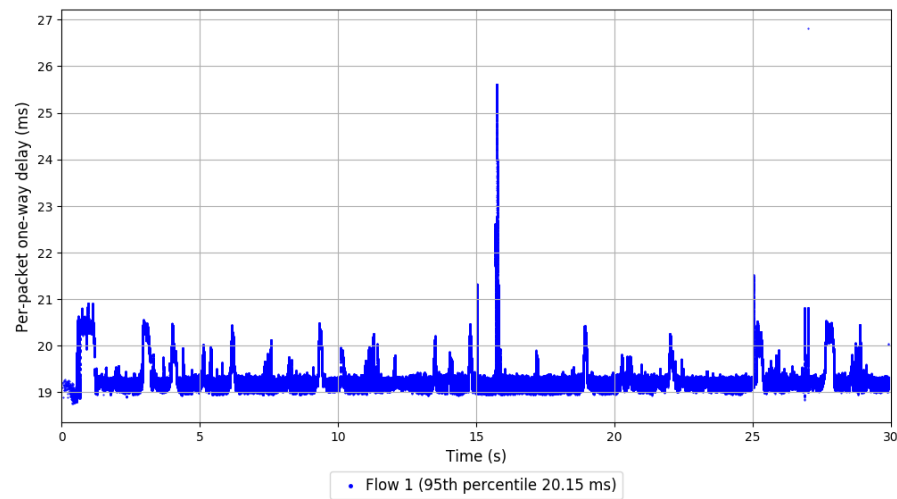
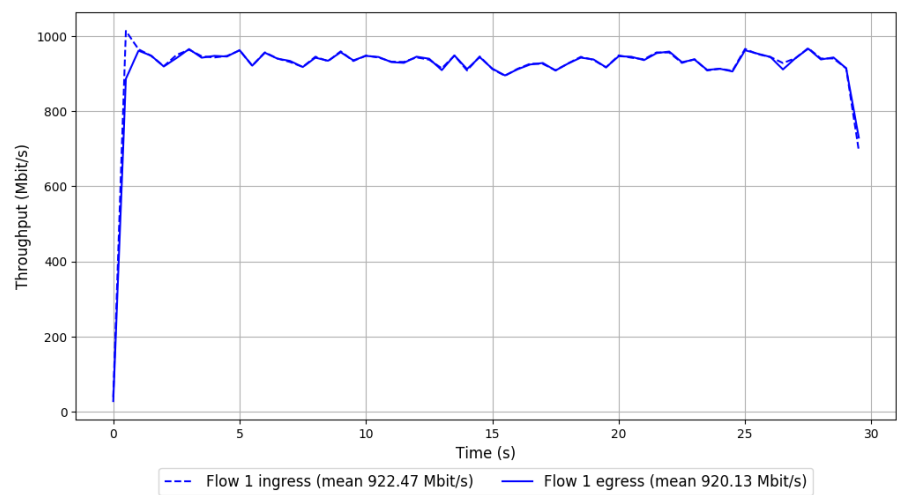
-- Flow 1:

Average throughput: 920.13 Mbit/s

95th percentile per-packet one-way delay: 20.149 ms

Loss rate: 0.25%

Run 2: Report of PCC — Data Link

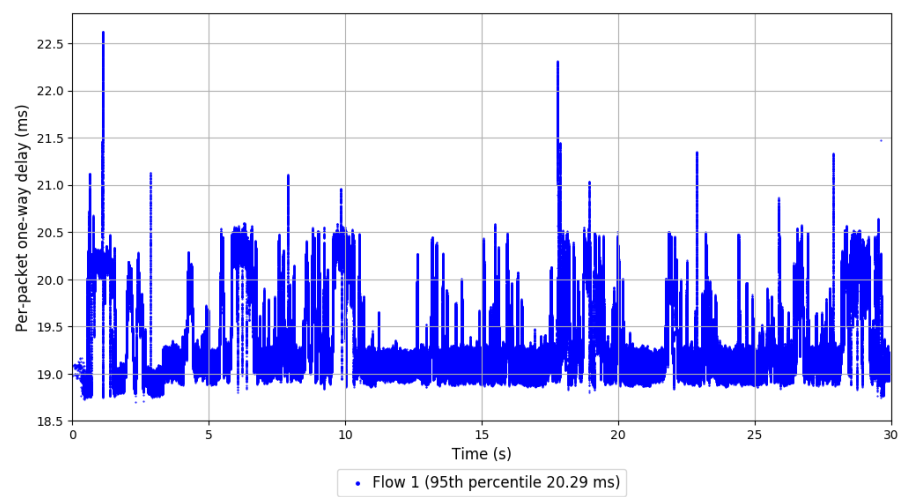
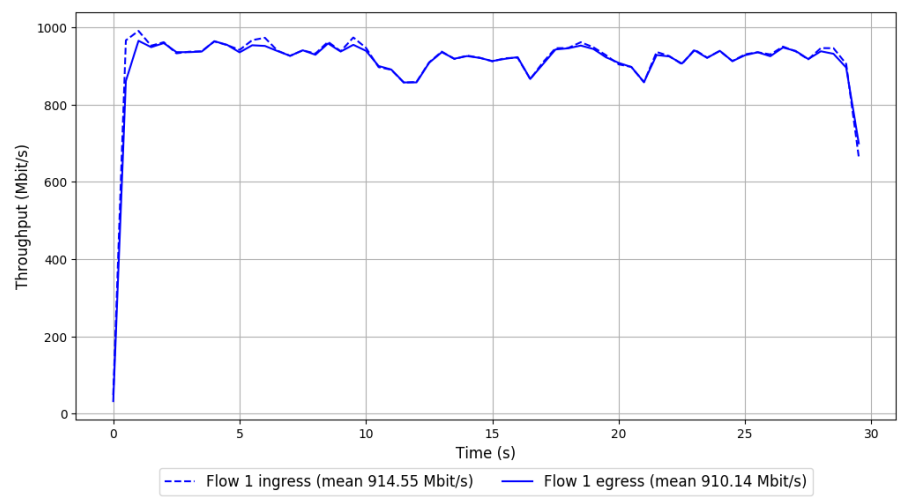


Run 3: Statistics of PCC

Start at: 2017-11-21 03:27:34
End at: 2017-11-21 03:28:04
Local clock offset: 2.322 ms
Remote clock offset: -1.588 ms

Below is generated by plot.py at 2017-11-21 07:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 910.14 Mbit/s
95th percentile per-packet one-way delay: 20.293 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 910.14 Mbit/s
95th percentile per-packet one-way delay: 20.293 ms
Loss rate: 0.48%

Run 3: Report of PCC — Data Link

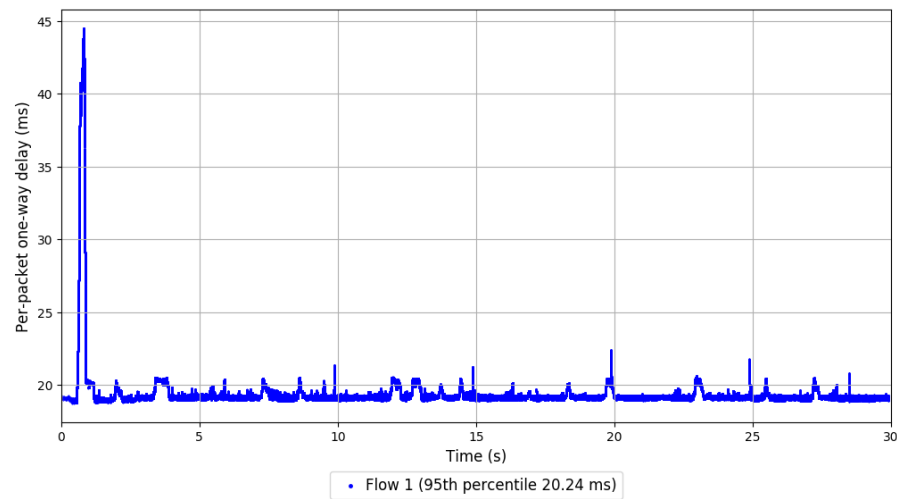
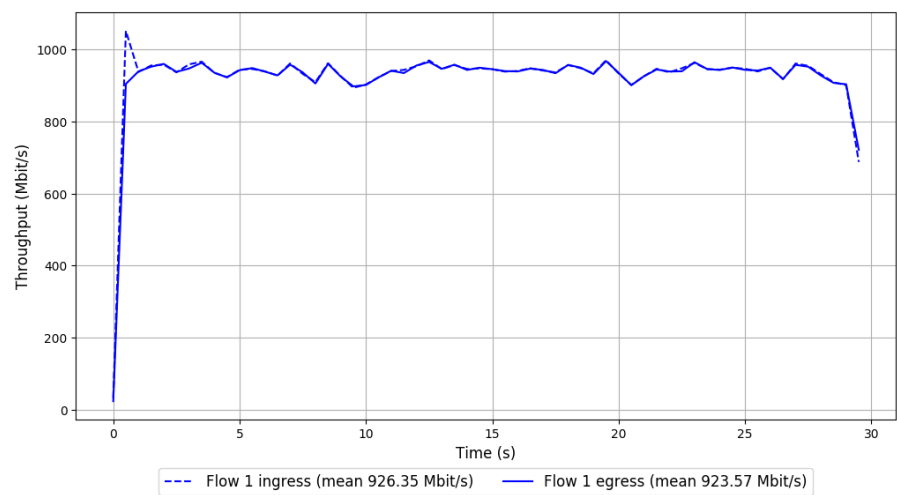


Run 4: Statistics of PCC

Start at: 2017-11-21 03:46:14
End at: 2017-11-21 03:46:44
Local clock offset: 2.306 ms
Remote clock offset: -2.016 ms

Below is generated by plot.py at 2017-11-21 07:41:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 923.57 Mbit/s
95th percentile per-packet one-way delay: 20.240 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 923.57 Mbit/s
95th percentile per-packet one-way delay: 20.240 ms
Loss rate: 0.30%

Run 4: Report of PCC — Data Link

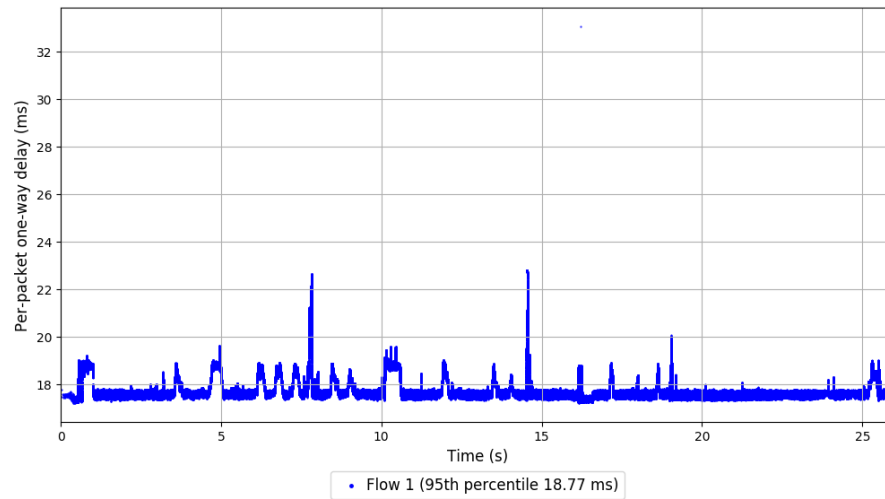
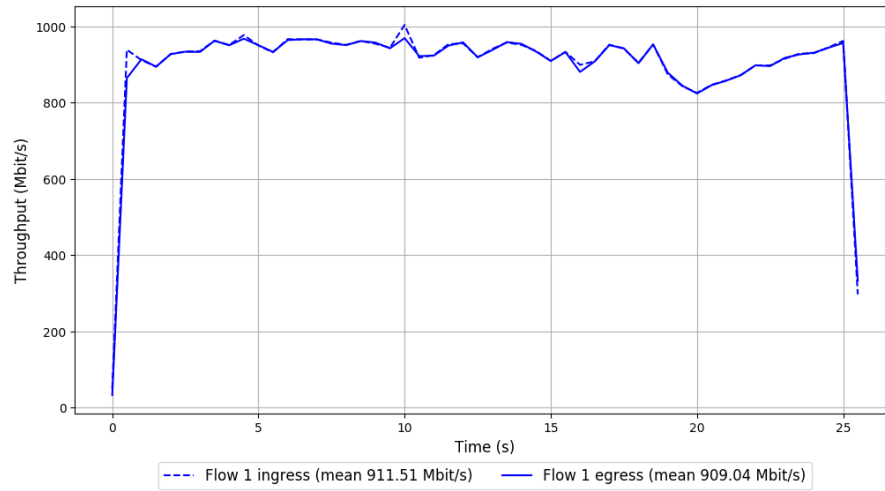


Run 5: Statistics of PCC

Start at: 2017-11-21 04:04:44
End at: 2017-11-21 04:05:14
Local clock offset: 2.206 ms
Remote clock offset: -1.719 ms

Below is generated by plot.py at 2017-11-21 07:41:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 909.04 Mbit/s
95th percentile per-packet one-way delay: 18.769 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 909.04 Mbit/s
95th percentile per-packet one-way delay: 18.769 ms
Loss rate: 0.27%

Run 5: Report of PCC — Data Link

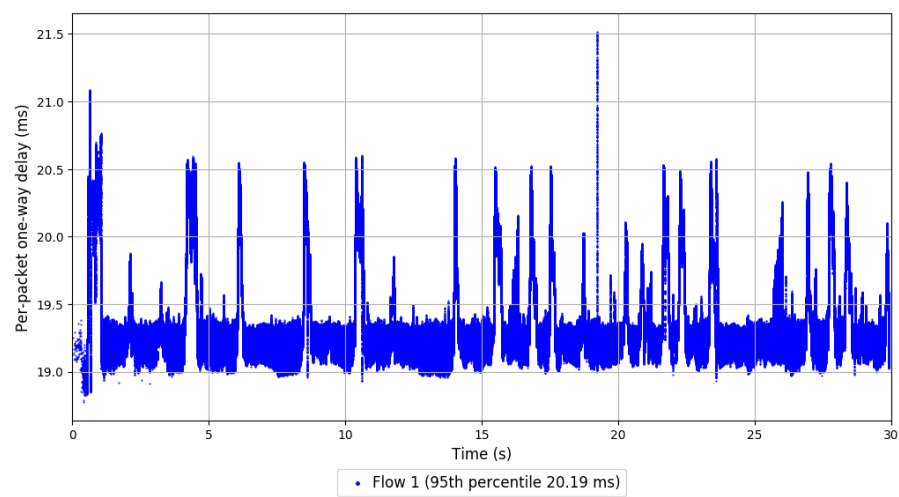
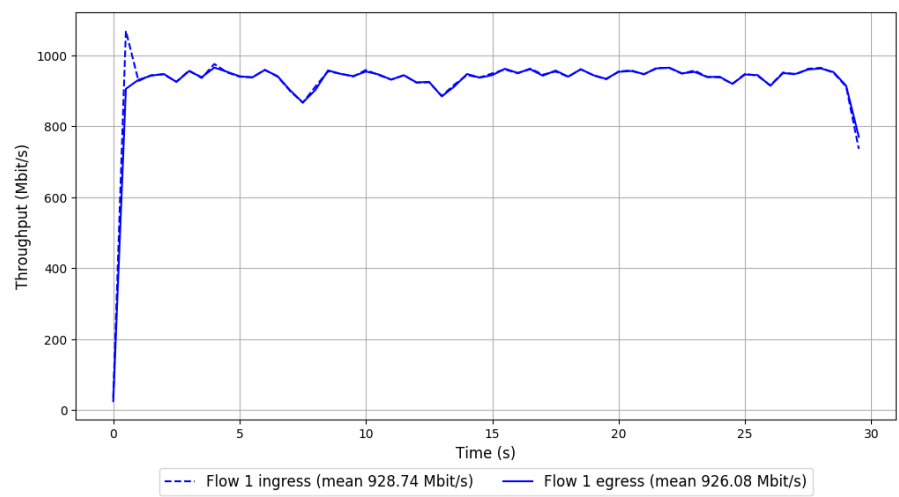


Run 6: Statistics of PCC

Start at: 2017-11-21 04:23:17
End at: 2017-11-21 04:23:47
Local clock offset: 2.386 ms
Remote clock offset: -1.618 ms

Below is generated by plot.py at 2017-11-21 07:42:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 926.08 Mbit/s
95th percentile per-packet one-way delay: 20.193 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 926.08 Mbit/s
95th percentile per-packet one-way delay: 20.193 ms
Loss rate: 0.29%

Run 6: Report of PCC — Data Link



Run 7: Statistics of PCC

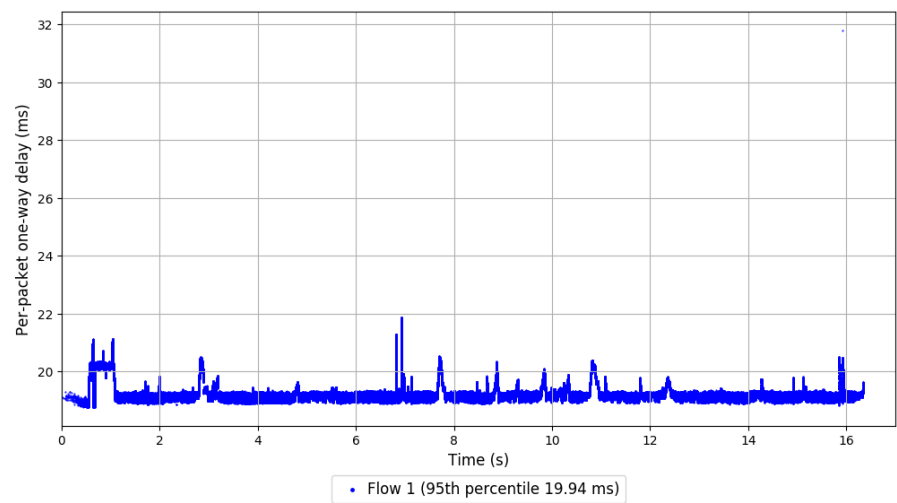
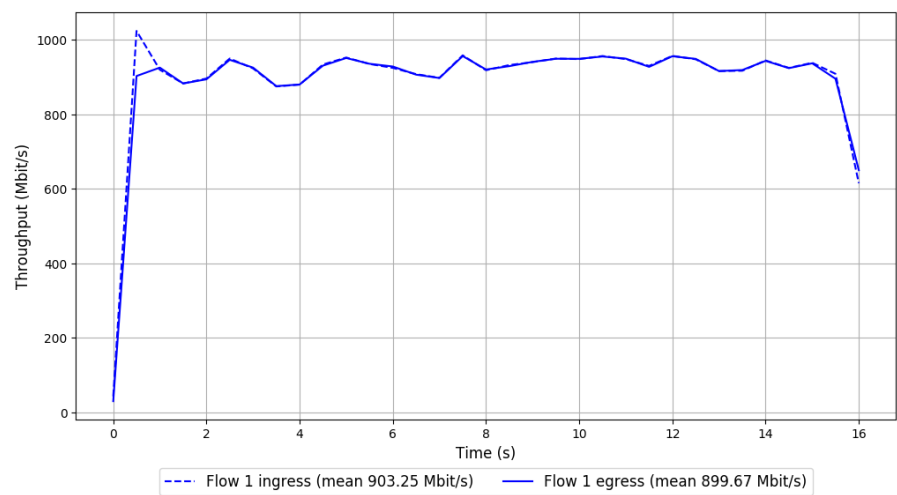
Start at: 2017-11-21 04:42:01

End at: 2017-11-21 04:42:31

Local clock offset: 2.411 ms

Remote clock offset: -1.324 ms

Run 7: Report of PCC — Data Link



Run 8: Statistics of PCC

Start at: 2017-11-21 05:00:22

End at: 2017-11-21 05:00:52

Local clock offset: 2.211 ms

Remote clock offset: -1.17 ms

Below is generated by plot.py at 2017-11-21 07:42:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.43 Mbit/s

95th percentile per-packet one-way delay: 19.770 ms

Loss rate: 0.18%

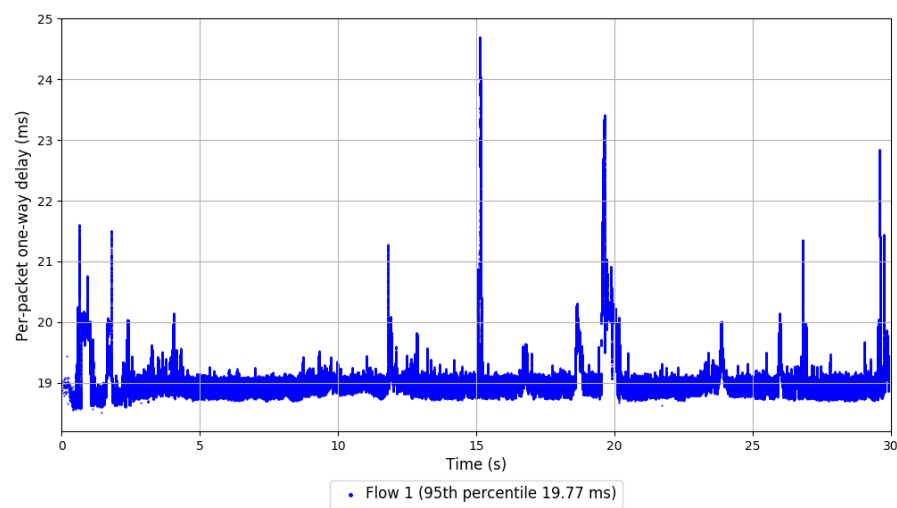
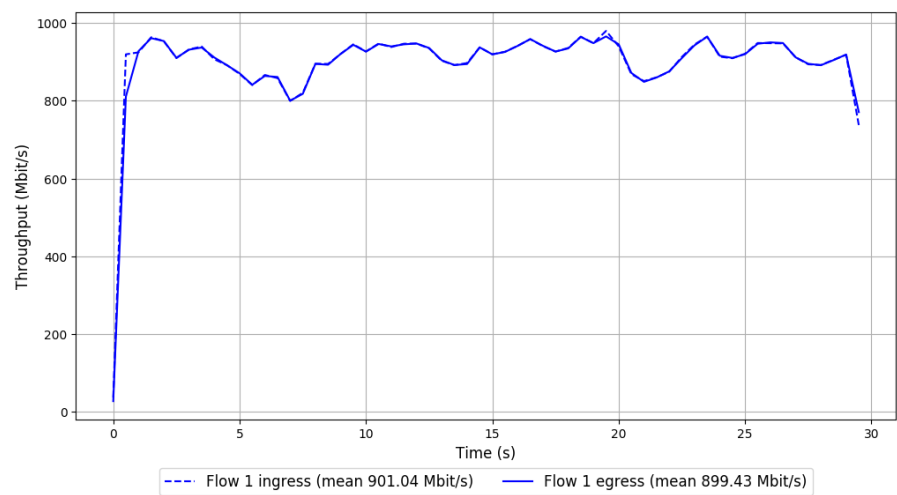
-- Flow 1:

Average throughput: 899.43 Mbit/s

95th percentile per-packet one-way delay: 19.770 ms

Loss rate: 0.18%

Run 8: Report of PCC — Data Link

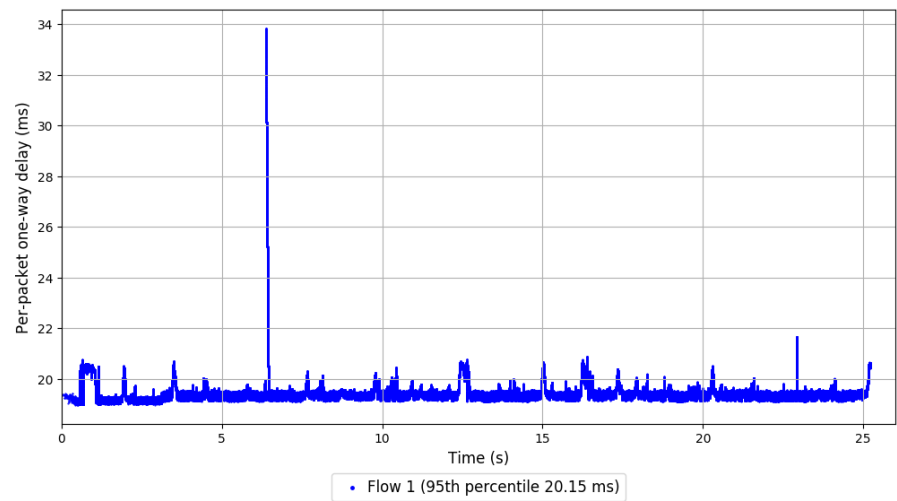
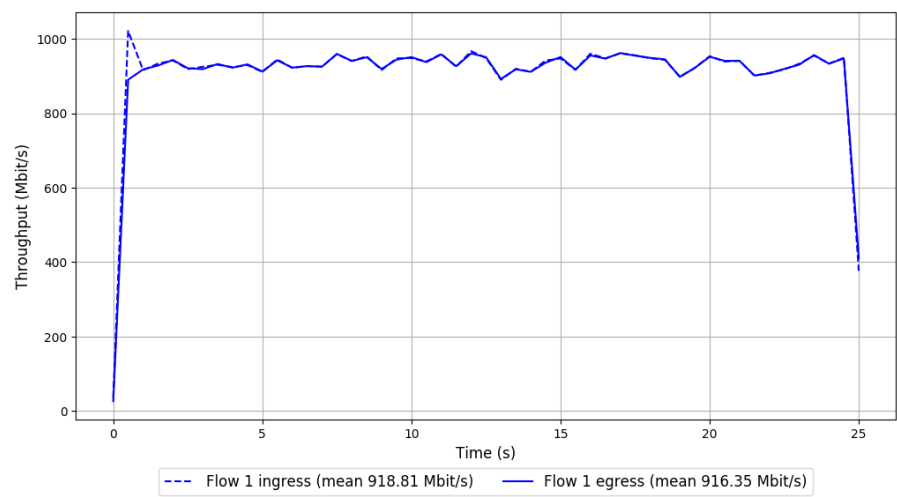


Run 9: Statistics of PCC

Start at: 2017-11-21 05:18:56
End at: 2017-11-21 05:19:26
Local clock offset: 1.416 ms
Remote clock offset: -1.309 ms

Below is generated by plot.py at 2017-11-21 07:47:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 916.35 Mbit/s
95th percentile per-packet one-way delay: 20.152 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 916.35 Mbit/s
95th percentile per-packet one-way delay: 20.152 ms
Loss rate: 0.26%

Run 9: Report of PCC — Data Link

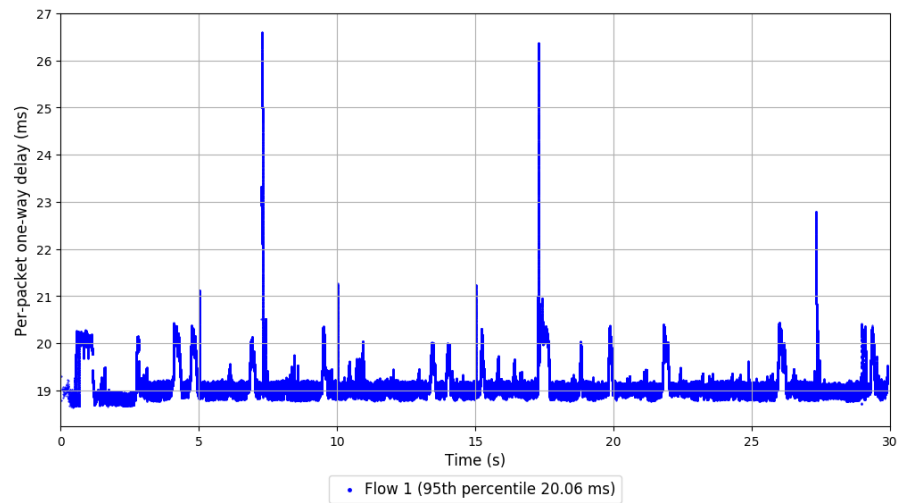
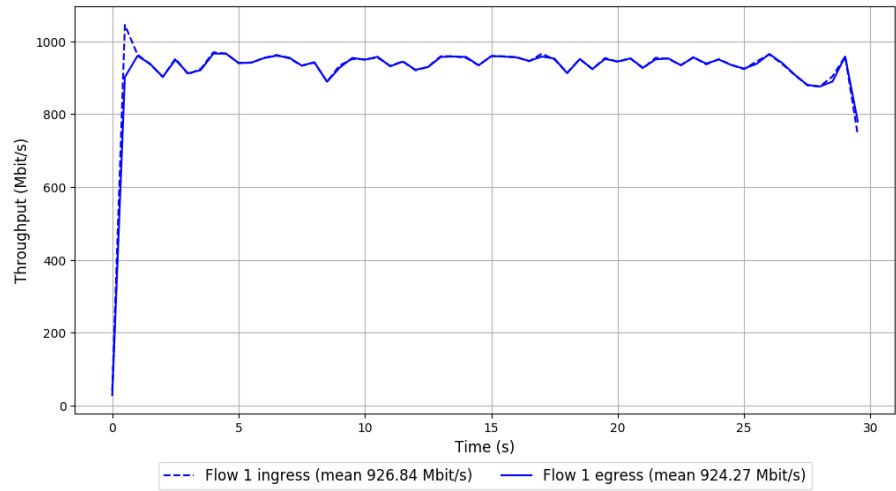


Run 10: Statistics of PCC

Start at: 2017-11-21 05:37:29
End at: 2017-11-21 05:37:59
Local clock offset: 1.18 ms
Remote clock offset: -1.417 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 924.27 Mbit/s
95th percentile per-packet one-way delay: 20.057 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 924.27 Mbit/s
95th percentile per-packet one-way delay: 20.057 ms
Loss rate: 0.28%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2017-11-21 02:55:46

End at: 2017-11-21 02:56:16

Local clock offset: 1.927 ms

Remote clock offset: -0.887 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 18.966 ms

Loss rate: 0.00%

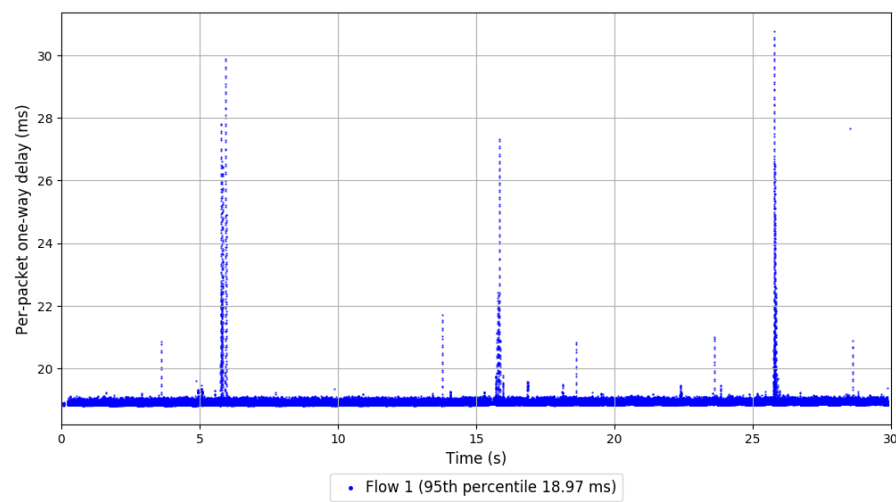
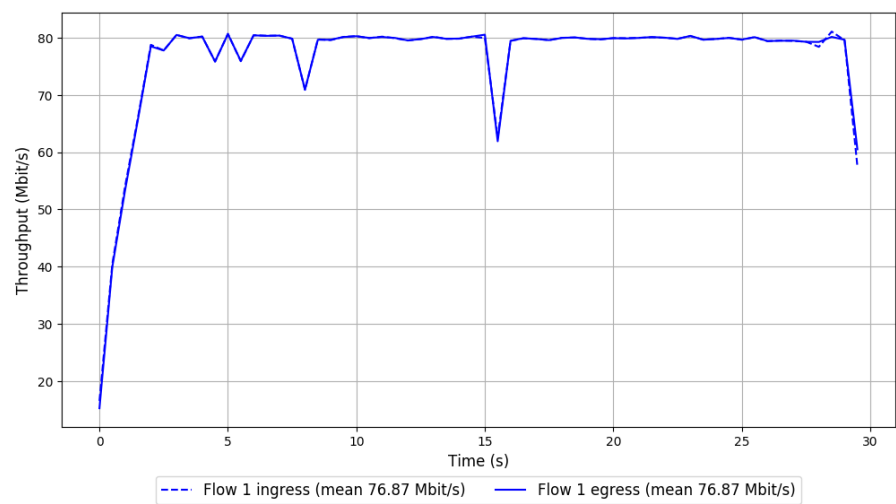
-- Flow 1:

Average throughput: 76.87 Mbit/s

95th percentile per-packet one-way delay: 18.966 ms

Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-11-21 03:14:27

End at: 2017-11-21 03:14:57

Local clock offset: 2.16 ms

Remote clock offset: -1.445 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 19.050 ms

Loss rate: 0.00%

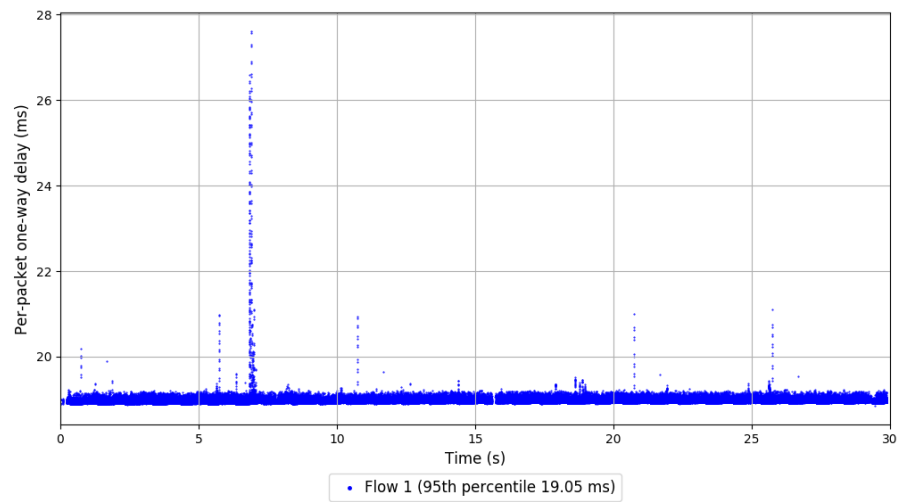
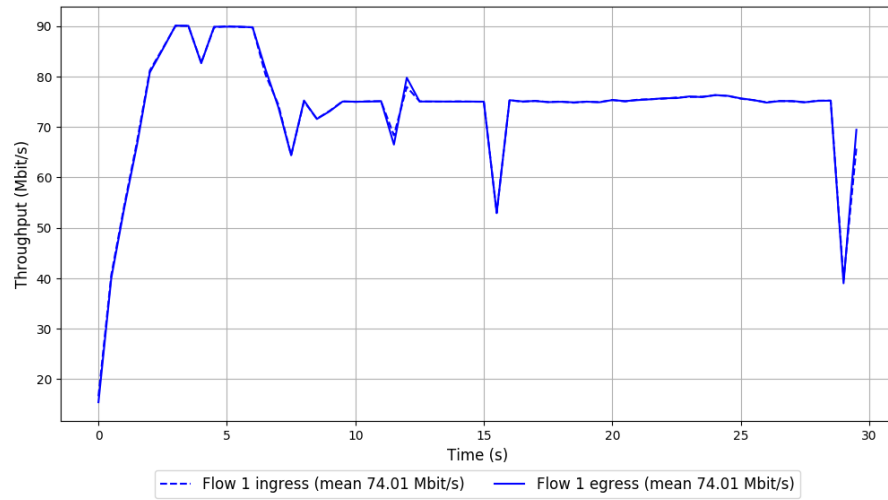
-- Flow 1:

Average throughput: 74.01 Mbit/s

95th percentile per-packet one-way delay: 19.050 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2017-11-21 03:32:58

End at: 2017-11-21 03:33:28

Local clock offset: 2.292 ms

Remote clock offset: -1.67 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.04 Mbit/s

95th percentile per-packet one-way delay: 18.795 ms

Loss rate: 0.00%

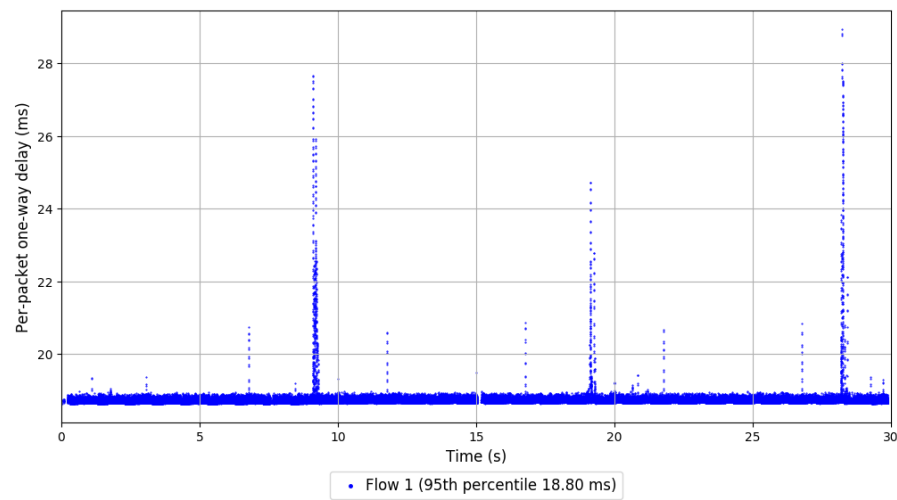
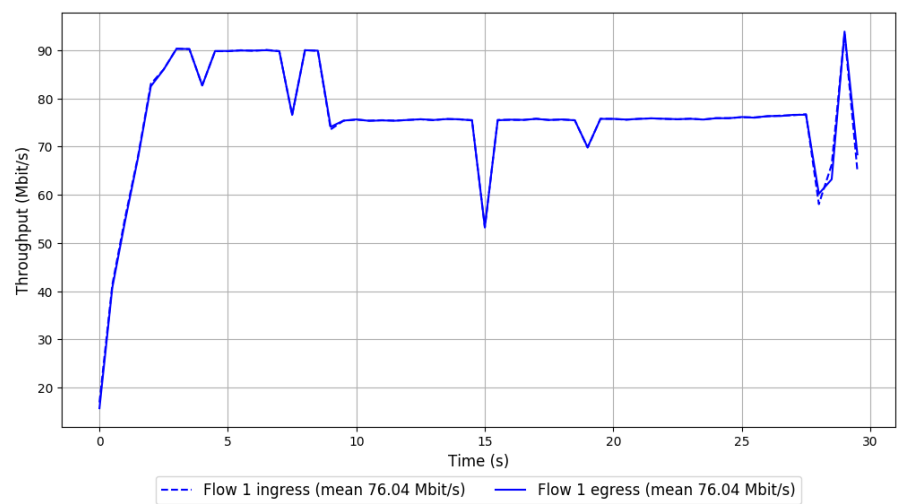
-- Flow 1:

Average throughput: 76.04 Mbit/s

95th percentile per-packet one-way delay: 18.795 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-21 03:51:40

End at: 2017-11-21 03:52:10

Local clock offset: 2.183 ms

Remote clock offset: -1.905 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 18.801 ms

Loss rate: 0.00%

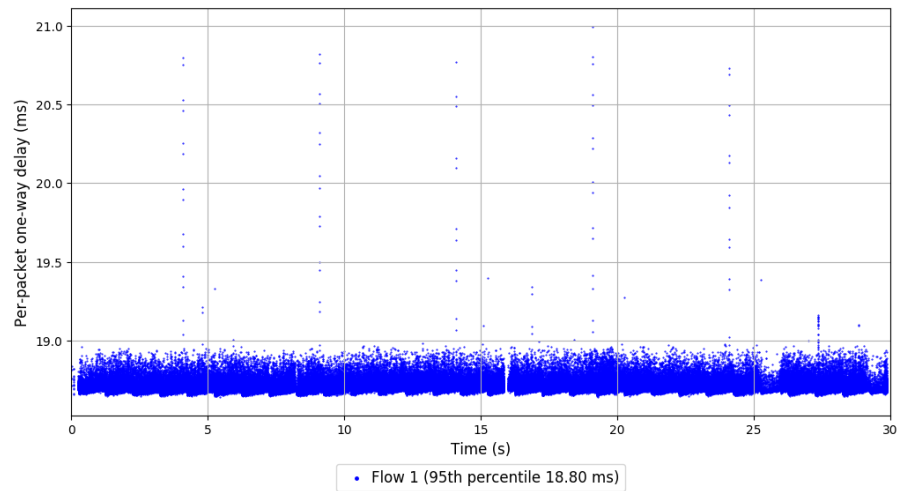
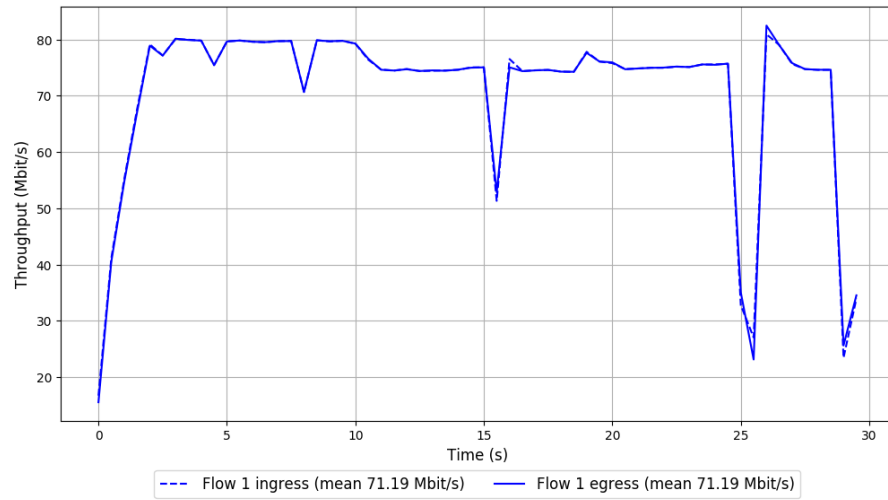
-- Flow 1:

Average throughput: 71.19 Mbit/s

95th percentile per-packet one-way delay: 18.801 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-21 04:10:05

End at: 2017-11-21 04:10:35

Local clock offset: 2.222 ms

Remote clock offset: -1.72 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.28 Mbit/s

95th percentile per-packet one-way delay: 18.813 ms

Loss rate: 0.00%

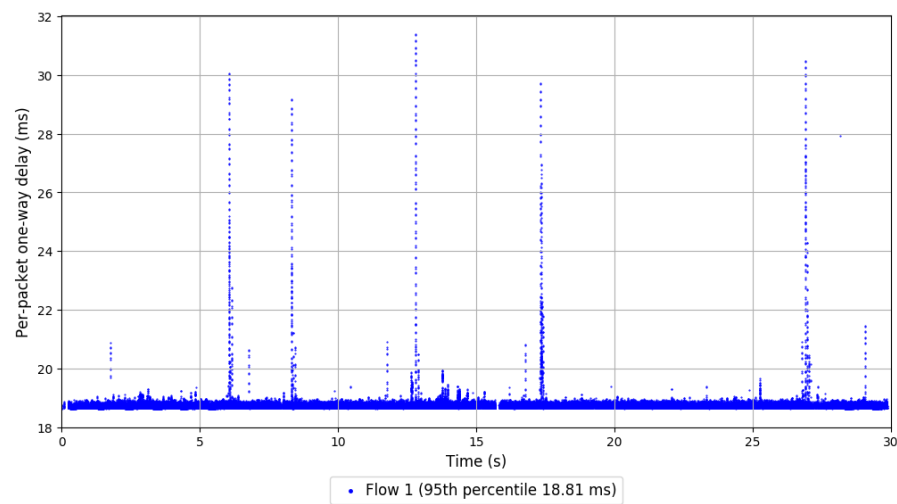
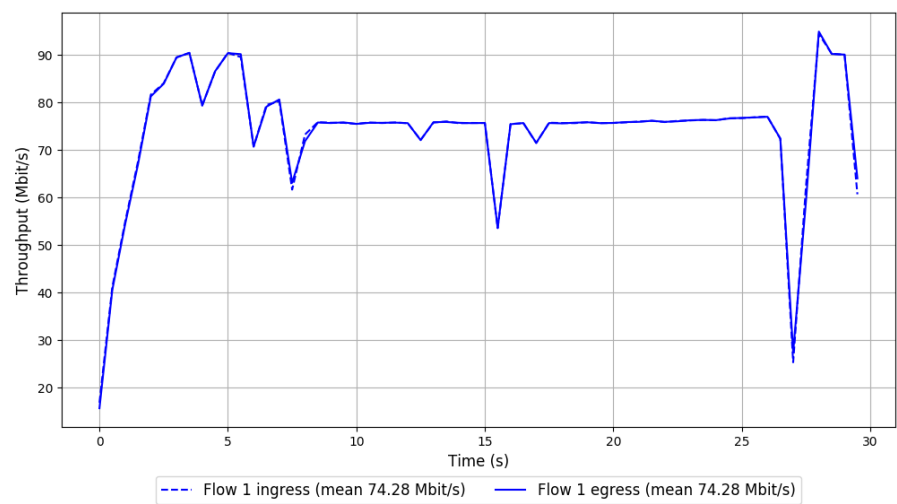
-- Flow 1:

Average throughput: 74.28 Mbit/s

95th percentile per-packet one-way delay: 18.813 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-11-21 04:28:43

End at: 2017-11-21 04:29:13

Local clock offset: 2.323 ms

Remote clock offset: -1.553 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.51 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

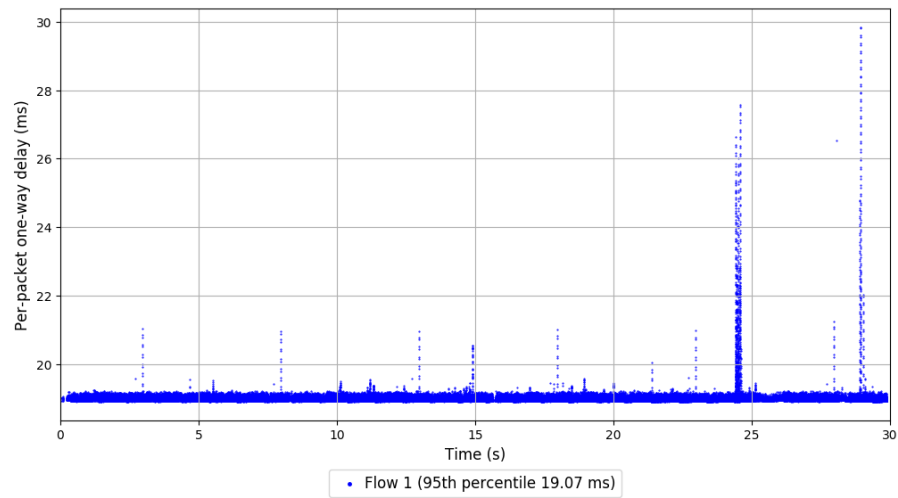
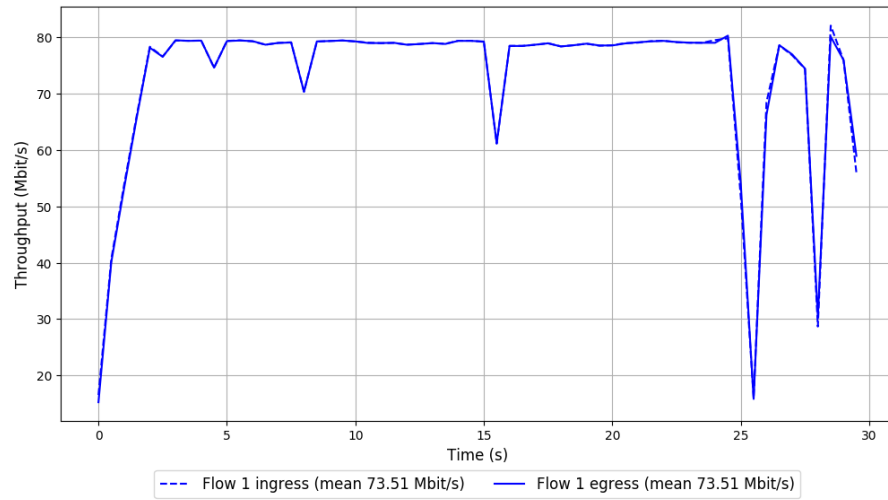
-- Flow 1:

Average throughput: 73.51 Mbit/s

95th percentile per-packet one-way delay: 19.066 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-21 04:47:14

End at: 2017-11-21 04:47:44

Local clock offset: 2.556 ms

Remote clock offset: -1.286 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 18.966 ms

Loss rate: 0.00%

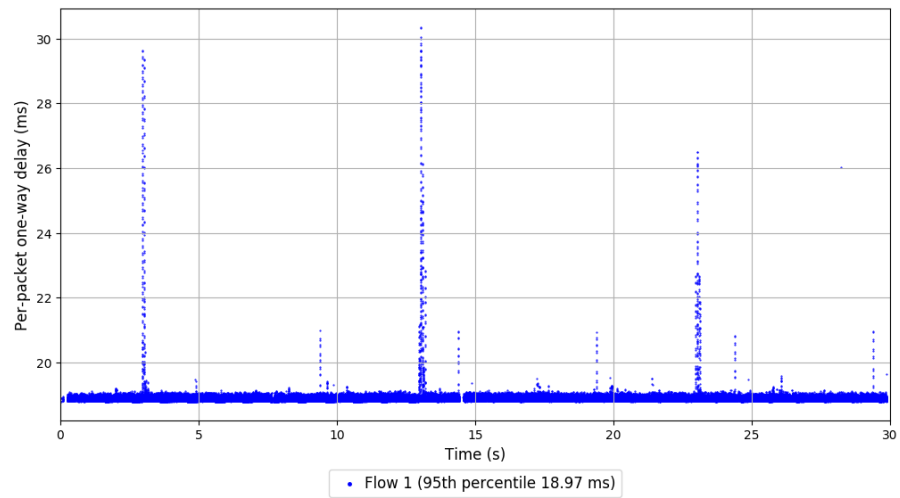
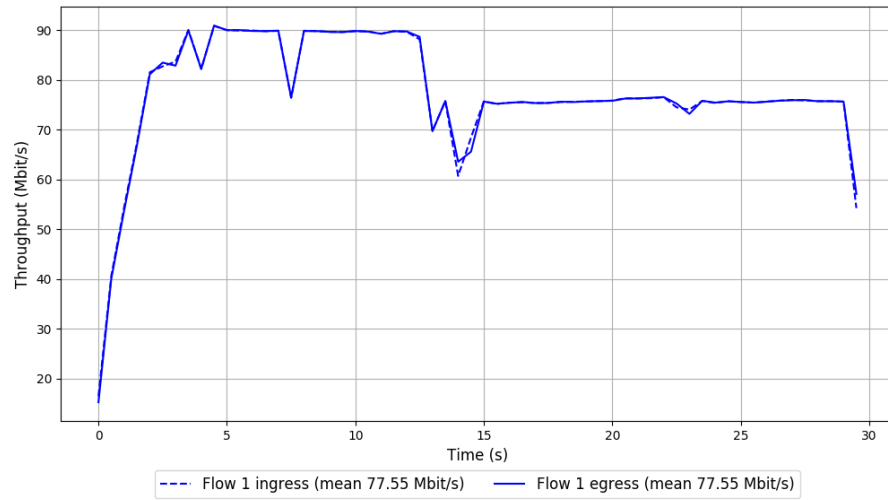
-- Flow 1:

Average throughput: 77.55 Mbit/s

95th percentile per-packet one-way delay: 18.966 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-11-21 05:05:47

End at: 2017-11-21 05:06:17

Local clock offset: 1.975 ms

Remote clock offset: -1.278 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.34 Mbit/s

95th percentile per-packet one-way delay: 18.718 ms

Loss rate: 0.00%

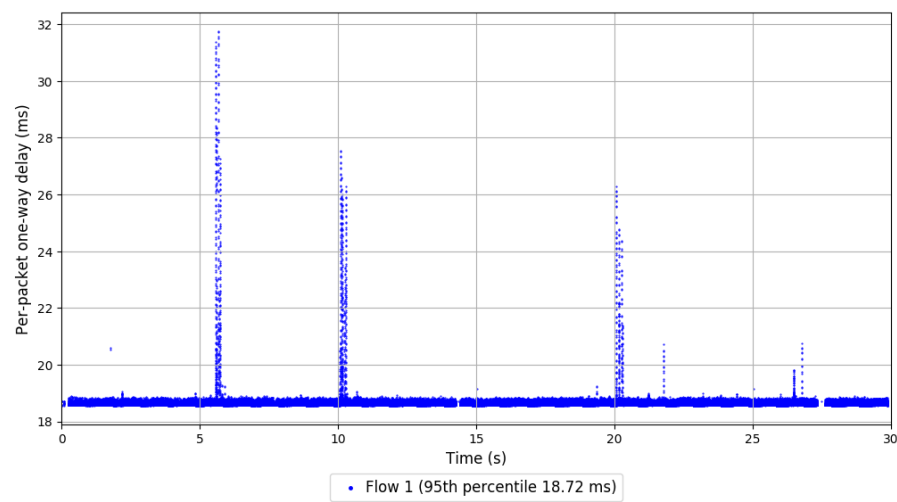
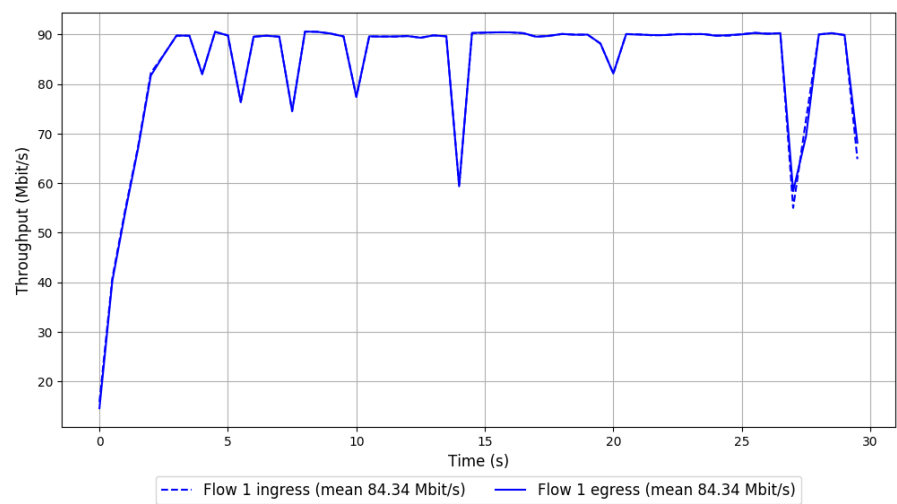
-- Flow 1:

Average throughput: 84.34 Mbit/s

95th percentile per-packet one-way delay: 18.718 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-21 05:24:17

End at: 2017-11-21 05:24:47

Local clock offset: 1.26 ms

Remote clock offset: -1.436 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 18.899 ms

Loss rate: 0.00%

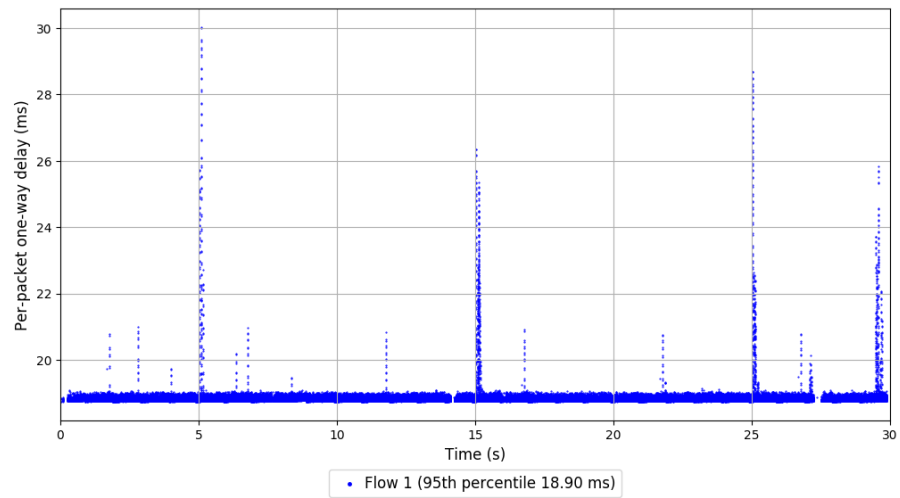
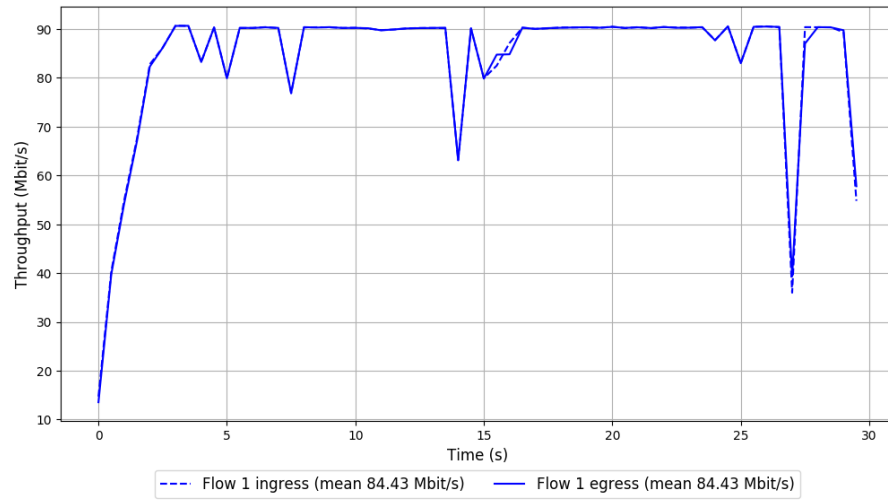
-- Flow 1:

Average throughput: 84.43 Mbit/s

95th percentile per-packet one-way delay: 18.899 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-21 05:42:55

End at: 2017-11-21 05:43:25

Local clock offset: 1.127 ms

Remote clock offset: -1.29 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 18.786 ms

Loss rate: 0.00%

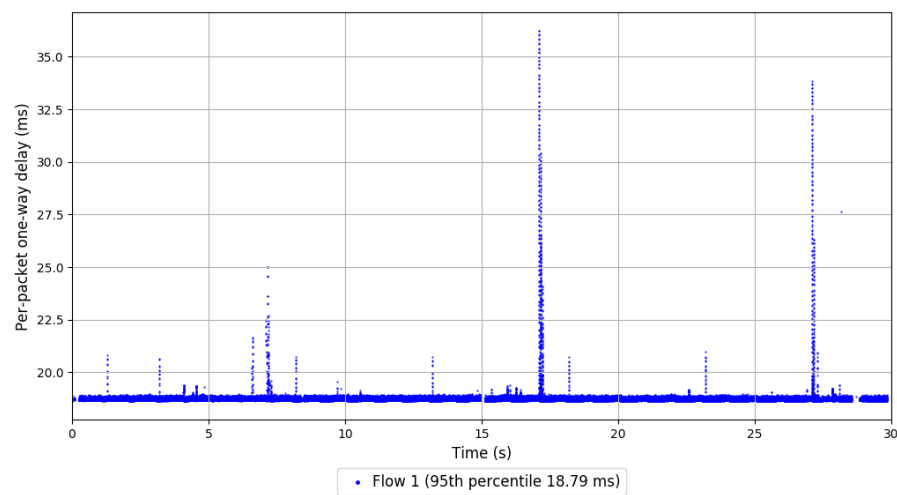
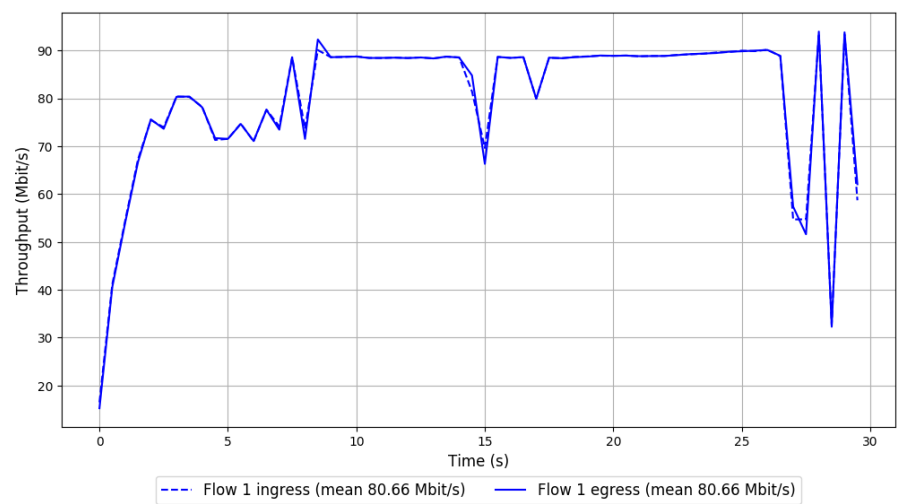
-- Flow 1:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 18.786 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

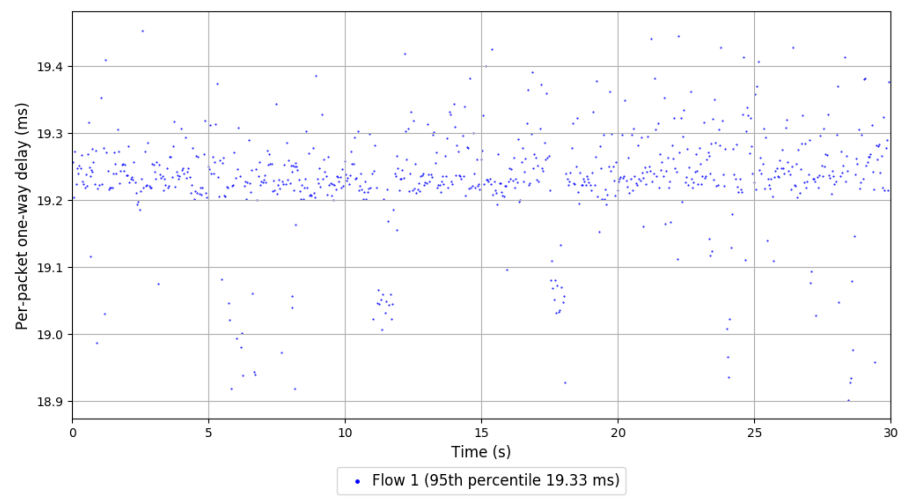
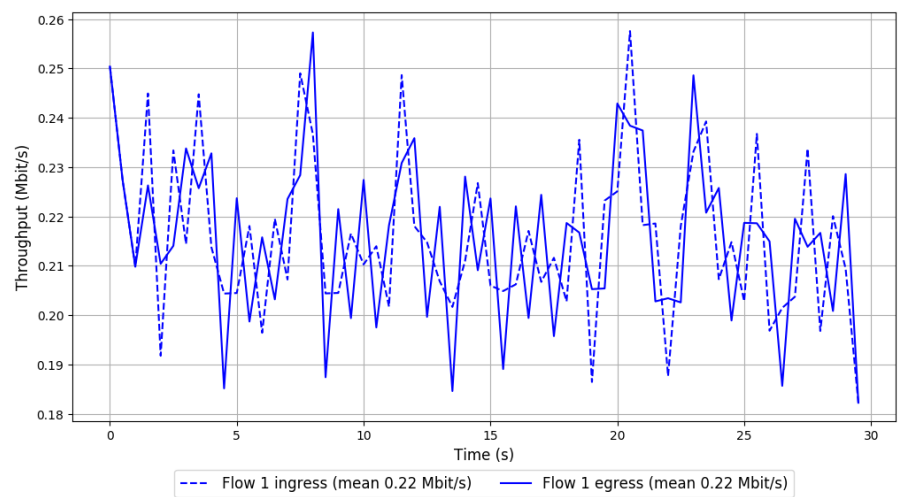


Run 1: Statistics of SCReAM

Start at: 2017-11-21 02:43:43
End at: 2017-11-21 02:44:13
Local clock offset: 1.835 ms
Remote clock offset: -0.831 ms

Below is generated by plot.py at 2017-11-21 07:52:01
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

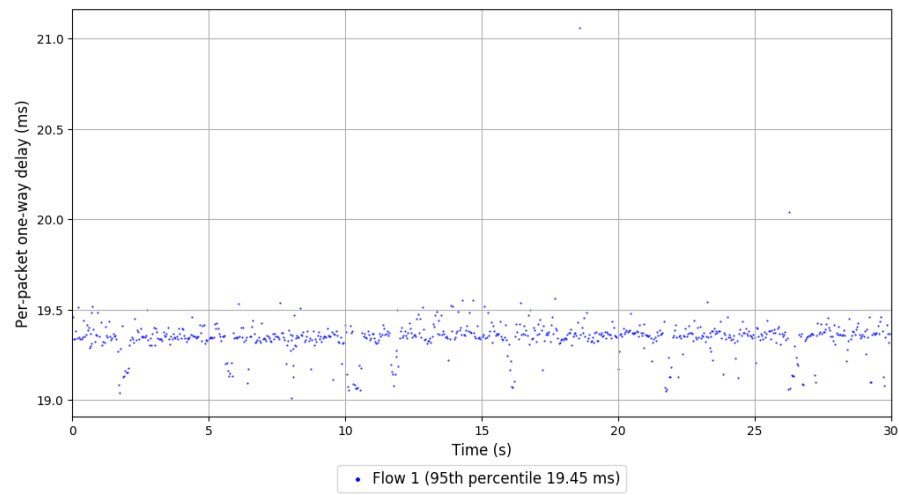
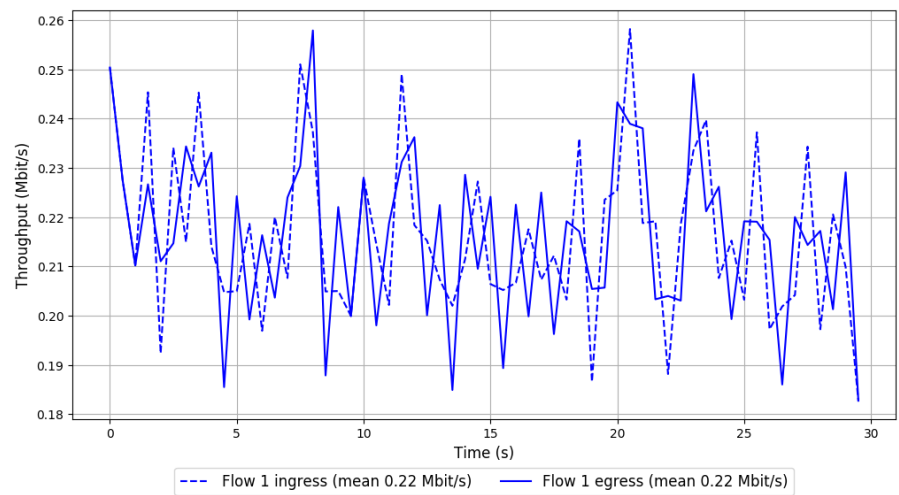


Run 2: Statistics of SCReAM

Start at: 2017-11-21 03:02:35
End at: 2017-11-21 03:03:05
Local clock offset: 1.938 ms
Remote clock offset: -0.996 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.454 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.454 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-21 03:21:04

End at: 2017-11-21 03:21:34

Local clock offset: 2.384 ms

Remote clock offset: -1.46 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.314 ms

Loss rate: 0.00%

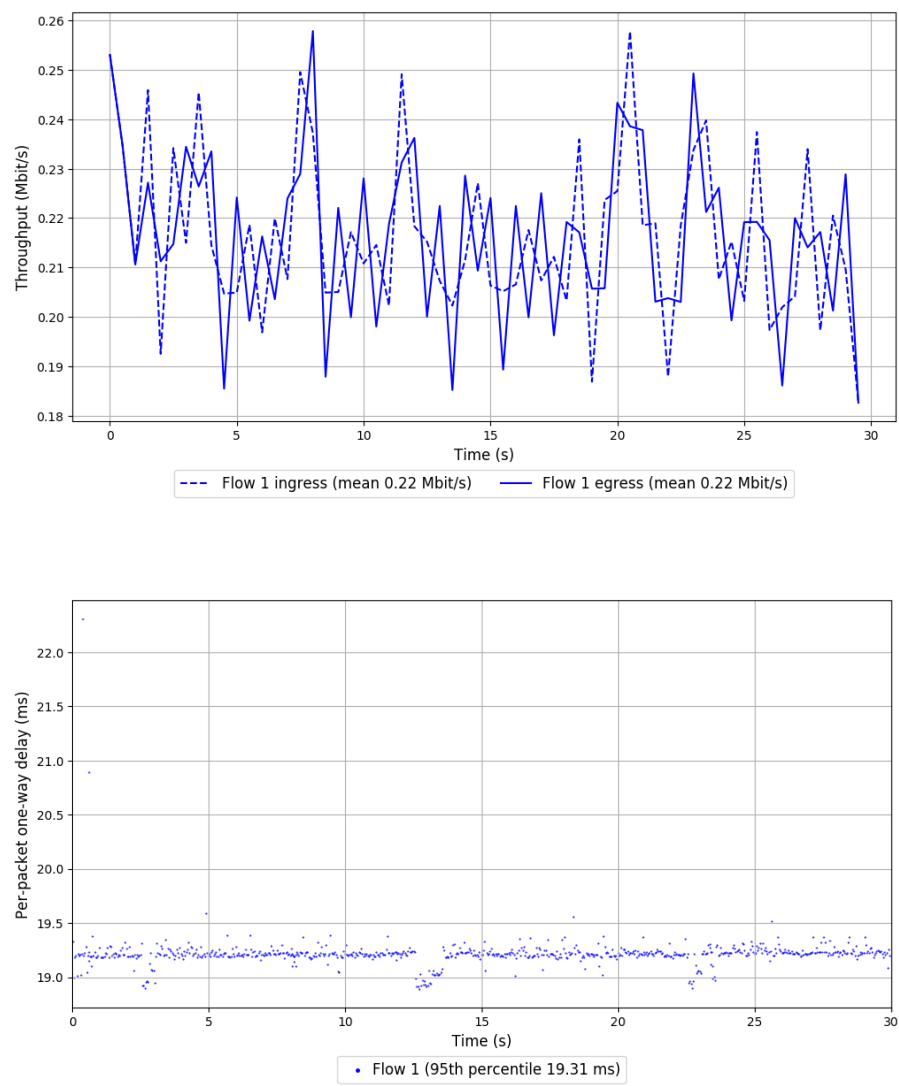
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.314 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

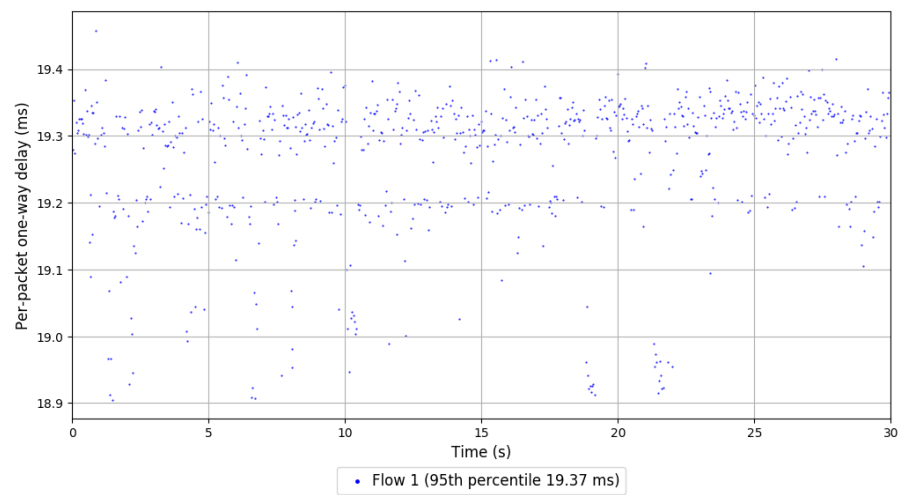
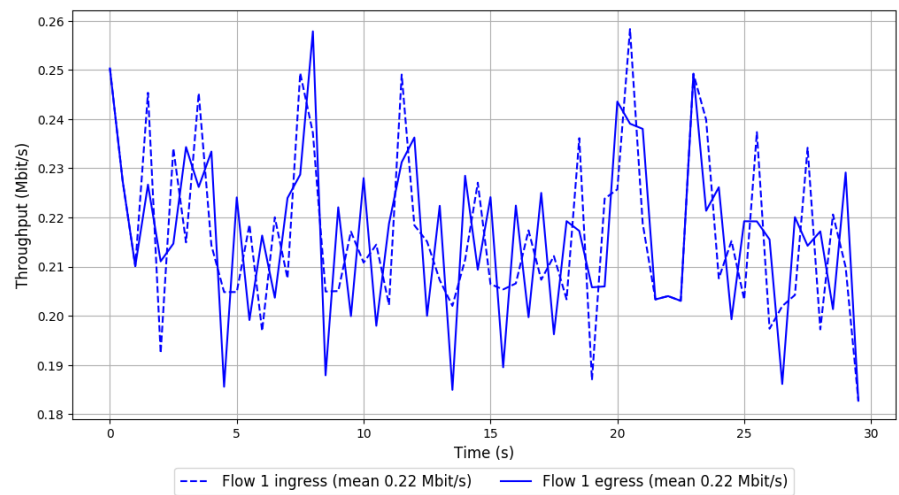


Run 4: Statistics of SCReAM

Start at: 2017-11-21 03:39:40
End at: 2017-11-21 03:40:10
Local clock offset: 2.22 ms
Remote clock offset: -1.857 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.370 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.370 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

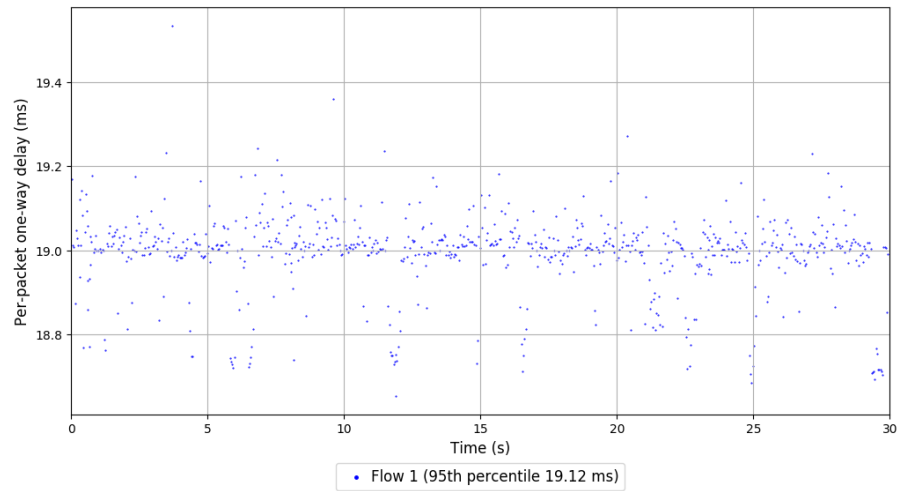
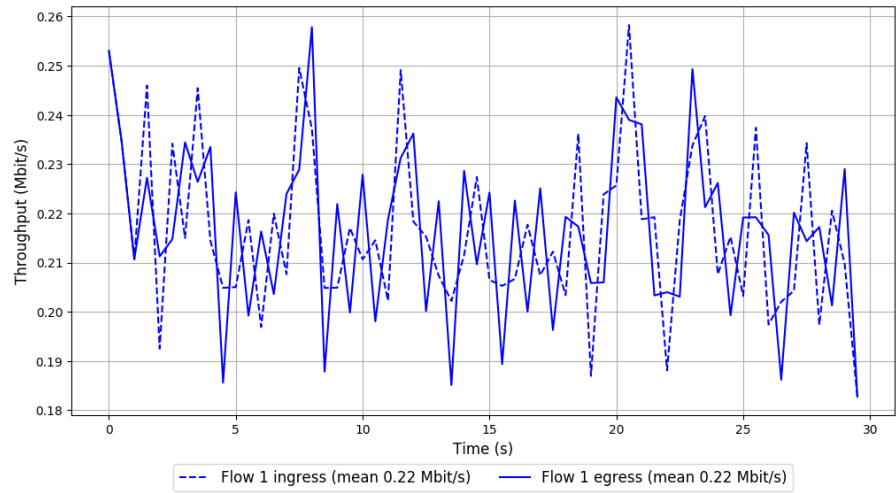


Run 5: Statistics of SCReAM

Start at: 2017-11-21 03:58:15
End at: 2017-11-21 03:58:45
Local clock offset: 2.252 ms
Remote clock offset: -1.701 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.119 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

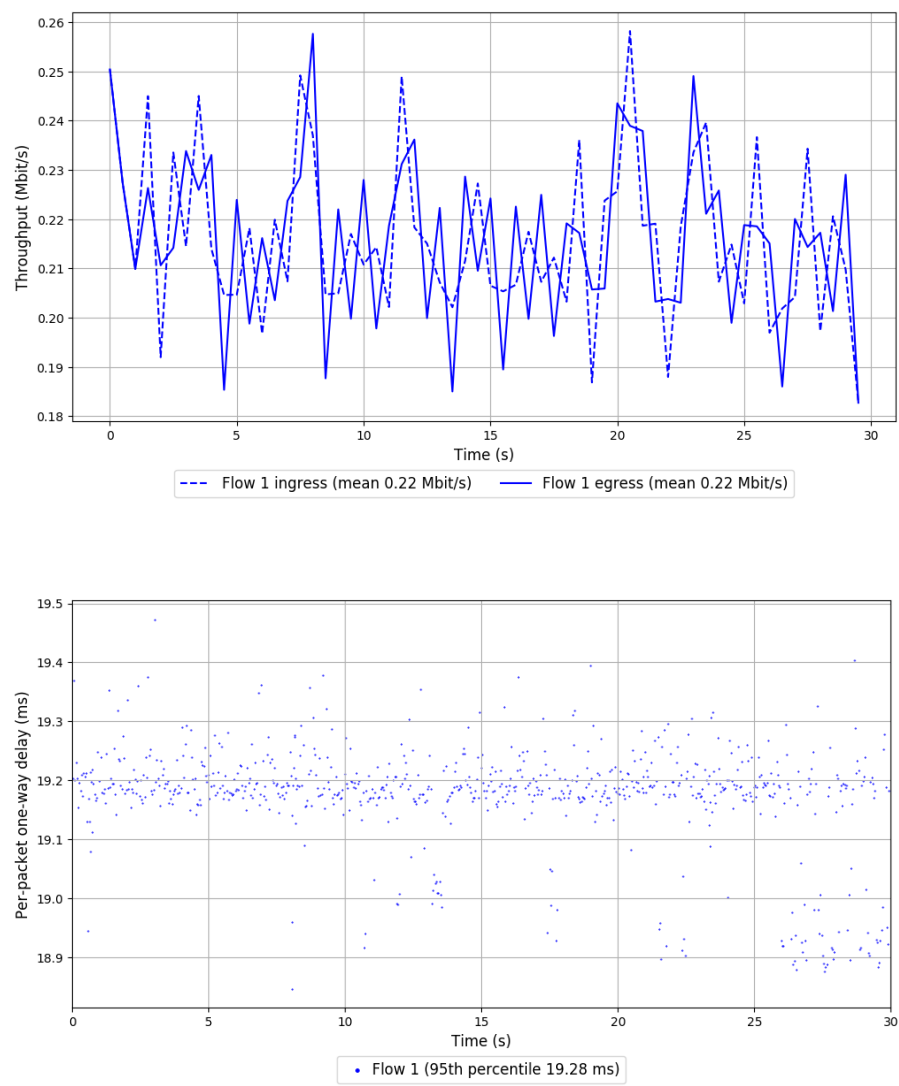


Run 6: Statistics of SCReAM

Start at: 2017-11-21 04:16:45
End at: 2017-11-21 04:17:15
Local clock offset: 2.347 ms
Remote clock offset: -1.629 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.284 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.284 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

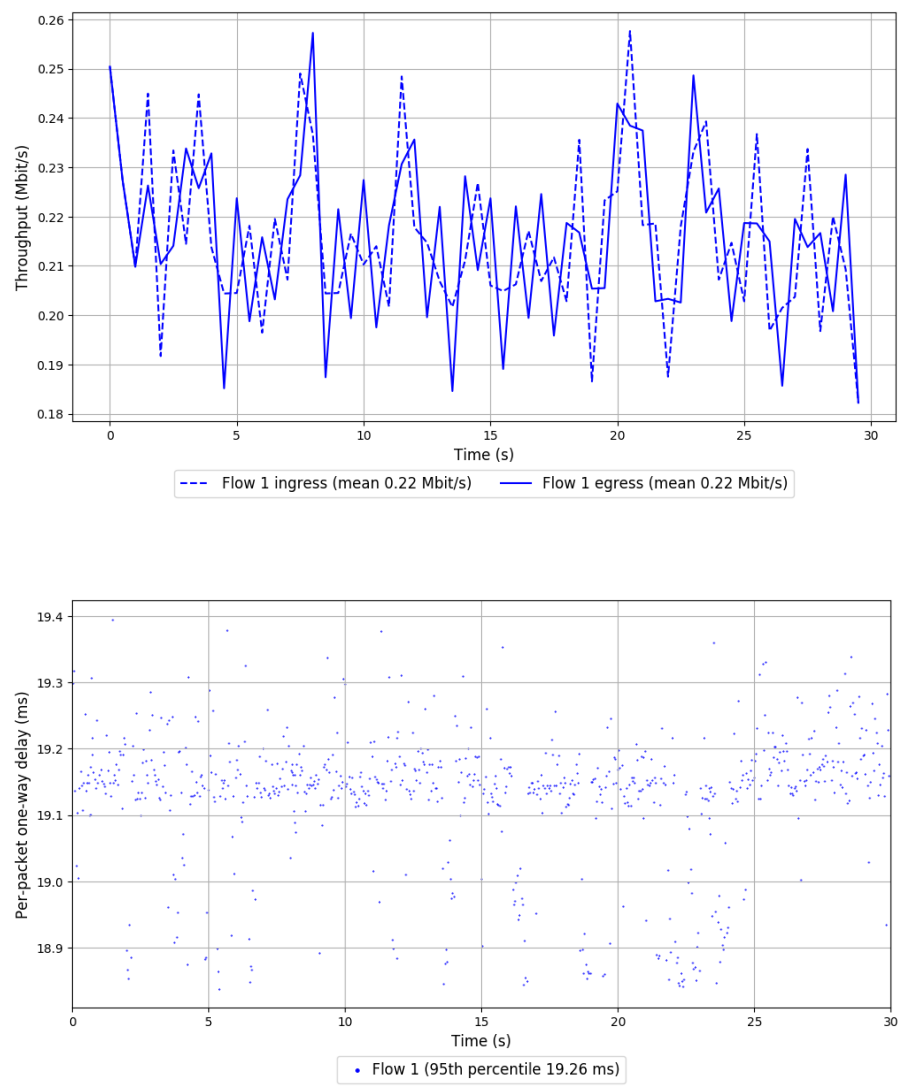


Run 7: Statistics of SCReAM

Start at: 2017-11-21 04:35:23
End at: 2017-11-21 04:35:53
Local clock offset: 2.458 ms
Remote clock offset: -1.469 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.260 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.260 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

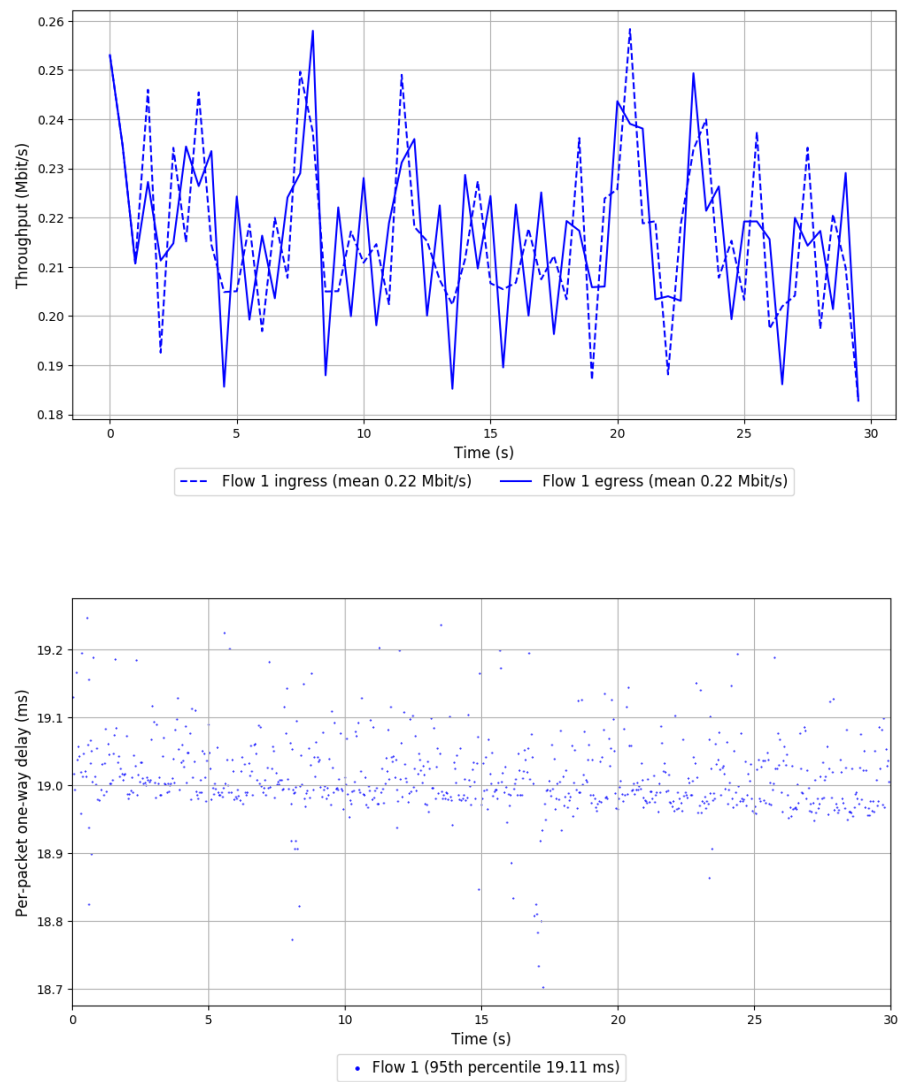


Run 8: Statistics of SCReAM

Start at: 2017-11-21 04:53:46
End at: 2017-11-21 04:54:16
Local clock offset: 2.422 ms
Remote clock offset: -1.169 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.115 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.115 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

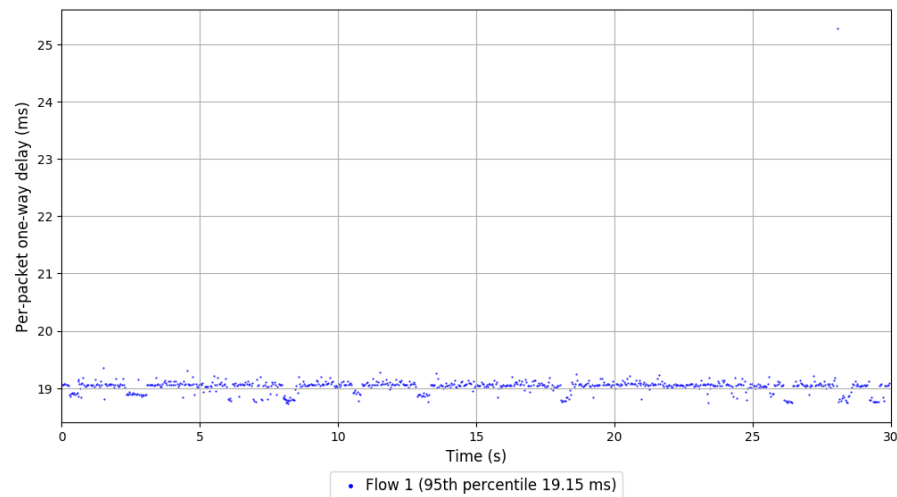
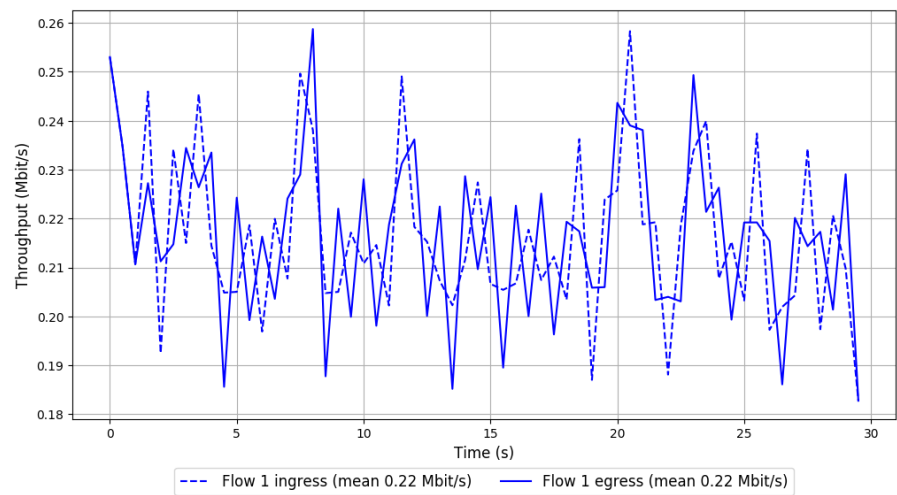


Run 9: Statistics of SReAM

Start at: 2017-11-21 05:12:24
End at: 2017-11-21 05:12:54
Local clock offset: 1.662 ms
Remote clock offset: -1.296 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.148 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-11-21 05:30:53

End at: 2017-11-21 05:31:23

Local clock offset: 1.261 ms

Remote clock offset: -1.606 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.249 ms

Loss rate: 0.00%

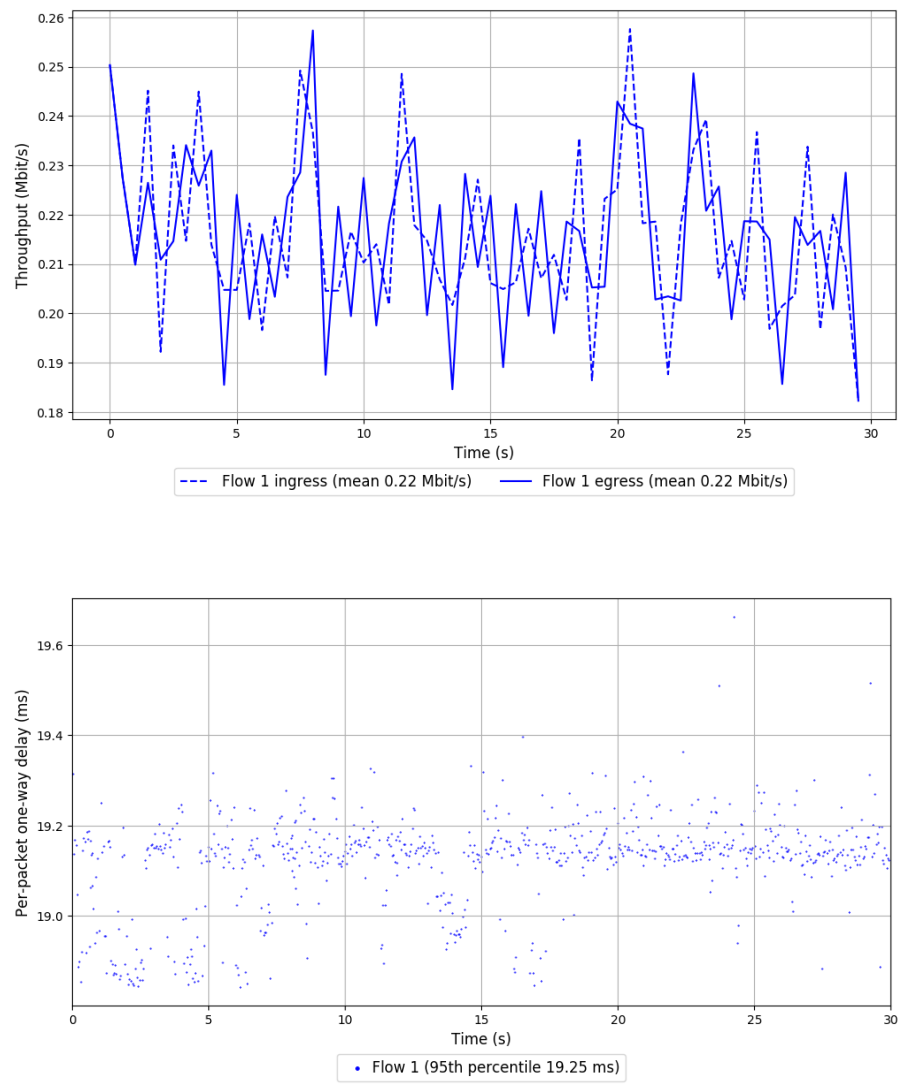
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.249 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

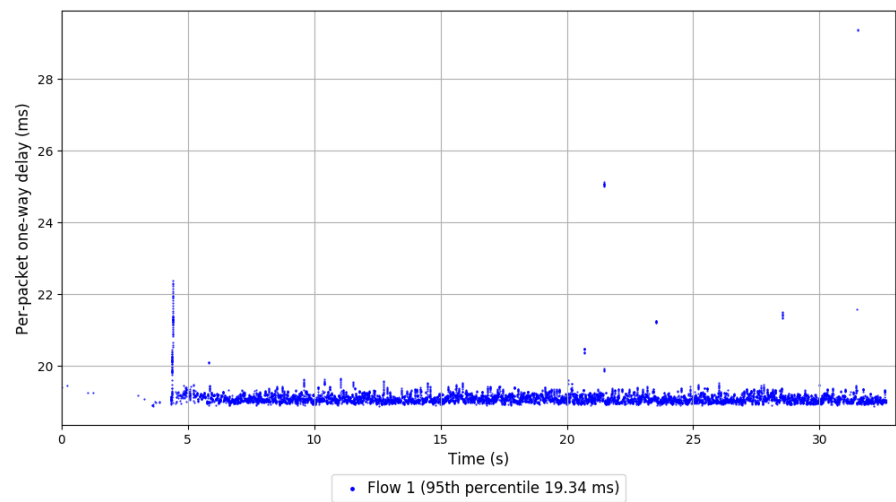
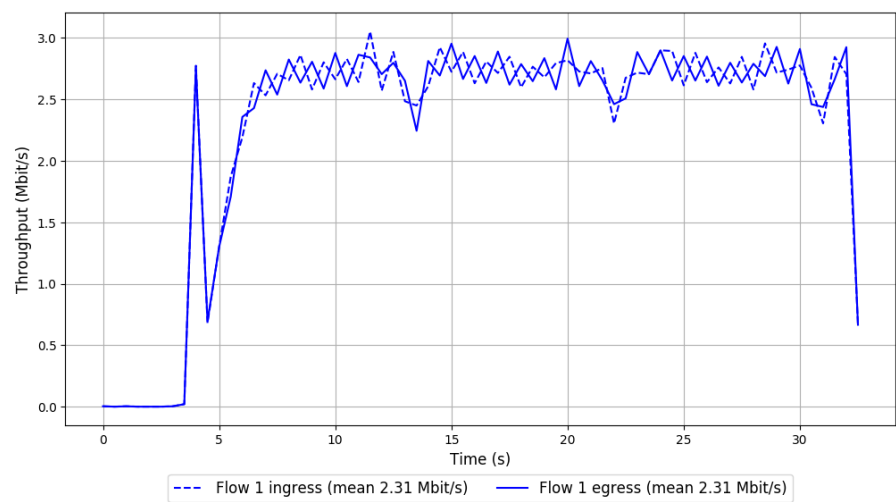


Run 1: Statistics of WebRTC media

Start at: 2017-11-21 02:51:58
End at: 2017-11-21 02:52:28
Local clock offset: 1.828 ms
Remote clock offset: -0.771 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.341 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.341 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-11-21 03:10:41

End at: 2017-11-21 03:11:11

Local clock offset: 2.199 ms

Remote clock offset: -1.28 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.069 ms

Loss rate: 0.00%

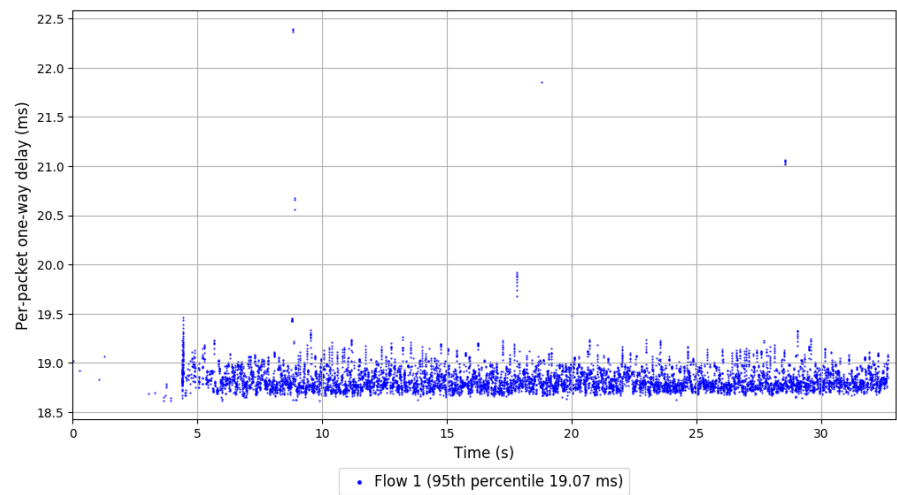
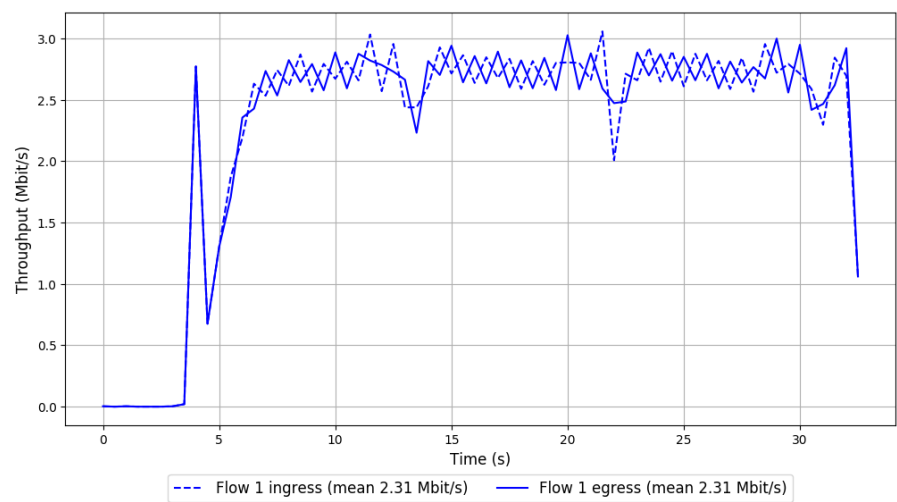
-- Flow 1:

Average throughput: 2.31 Mbit/s

95th percentile per-packet one-way delay: 19.069 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

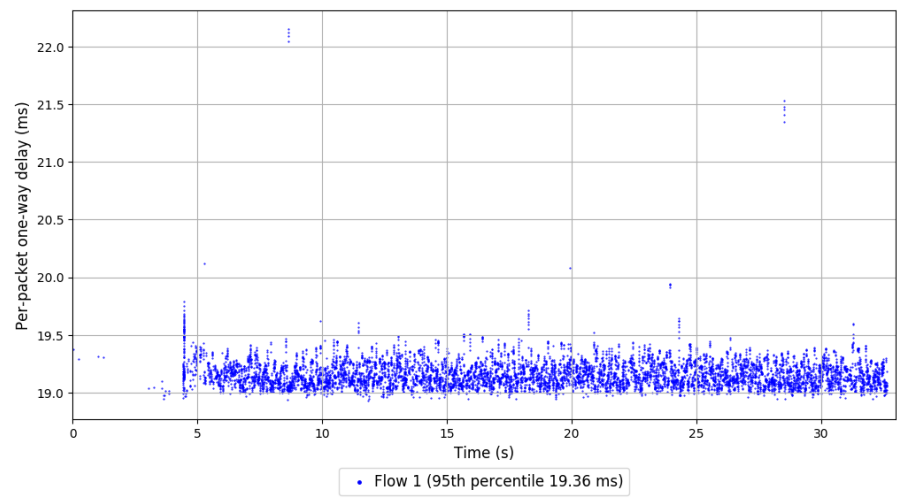
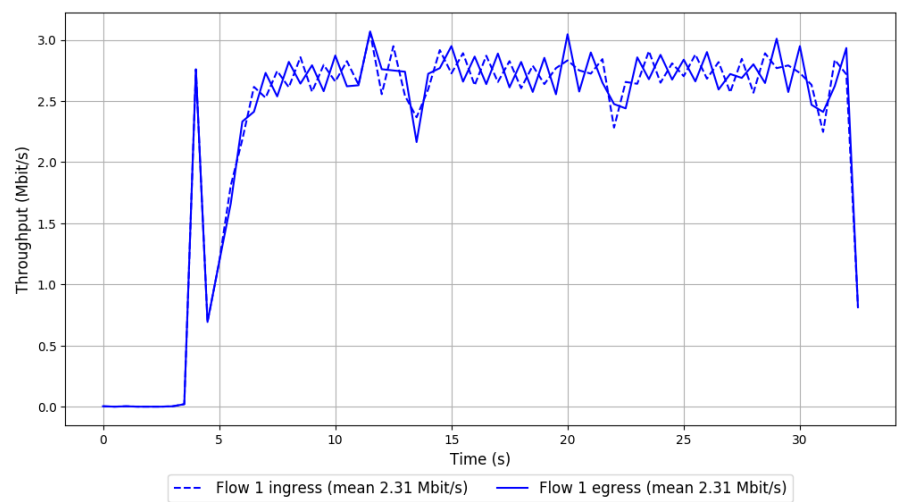


Run 3: Statistics of WebRTC media

Start at: 2017-11-21 03:29:10
End at: 2017-11-21 03:29:40
Local clock offset: 2.331 ms
Remote clock offset: -1.517 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.356 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.356 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

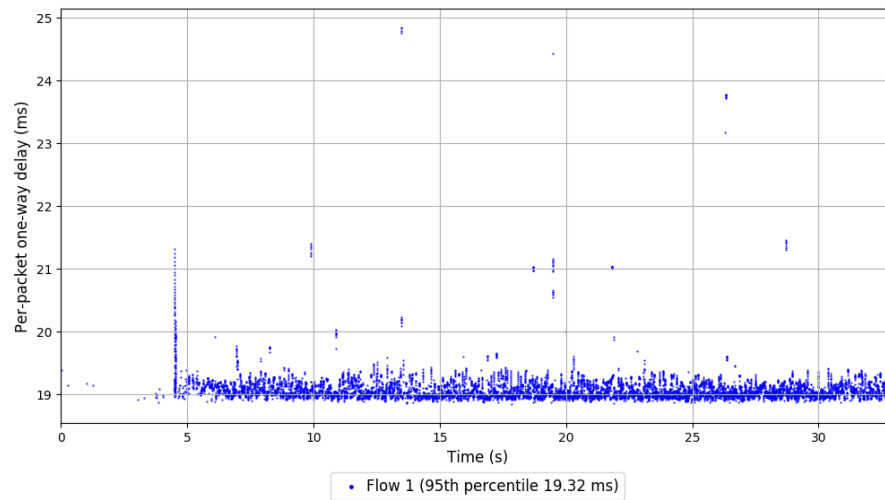
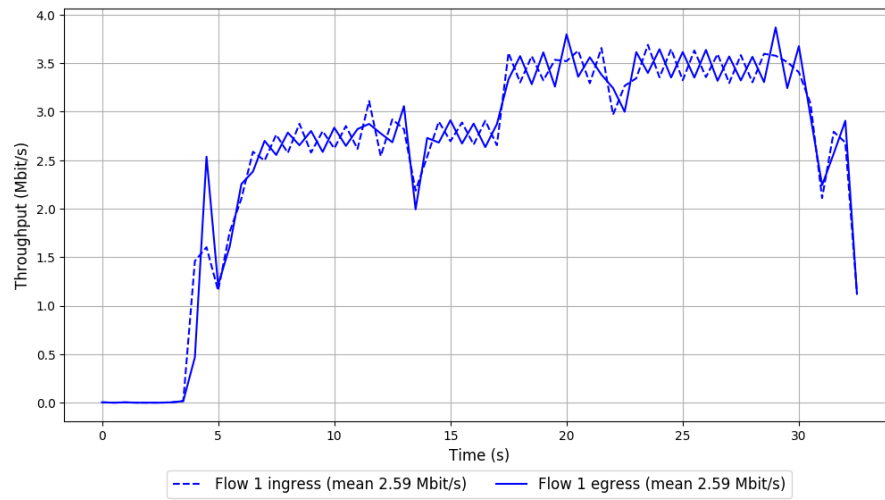


Run 4: Statistics of WebRTC media

Start at: 2017-11-21 03:47:51
End at: 2017-11-21 03:48:21
Local clock offset: 2.163 ms
Remote clock offset: -1.959 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 19.318 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 2.59 Mbit/s
95th percentile per-packet one-way delay: 19.318 ms
Loss rate: 0.03%

Run 4: Report of WebRTC media — Data Link

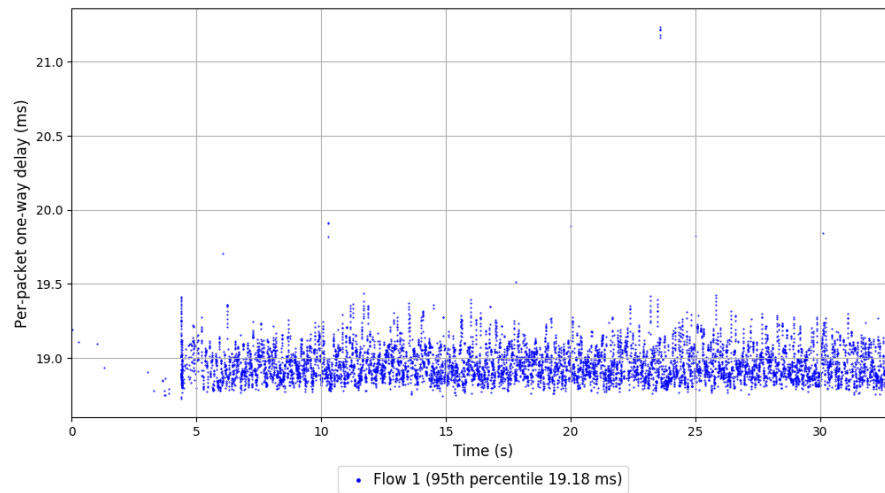
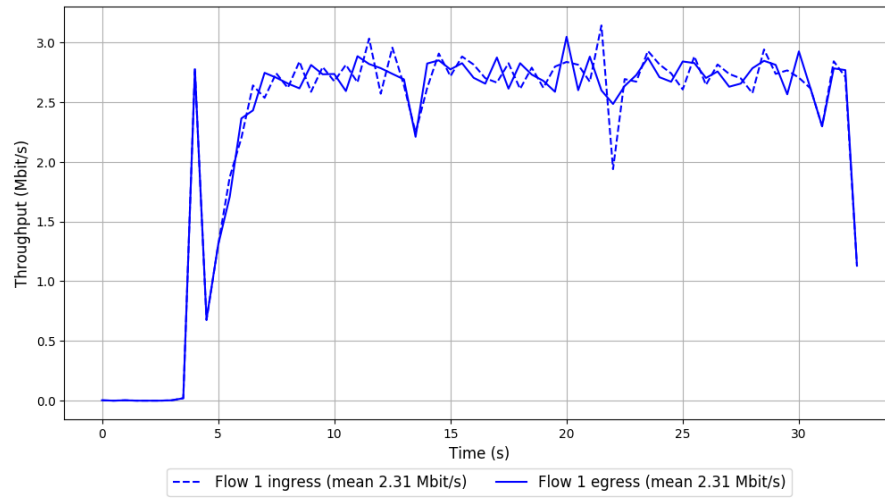


Run 5: Statistics of WebRTC media

Start at: 2017-11-21 04:06:17
End at: 2017-11-21 04:06:47
Local clock offset: 2.303 ms
Remote clock offset: -1.717 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.175 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 19.175 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

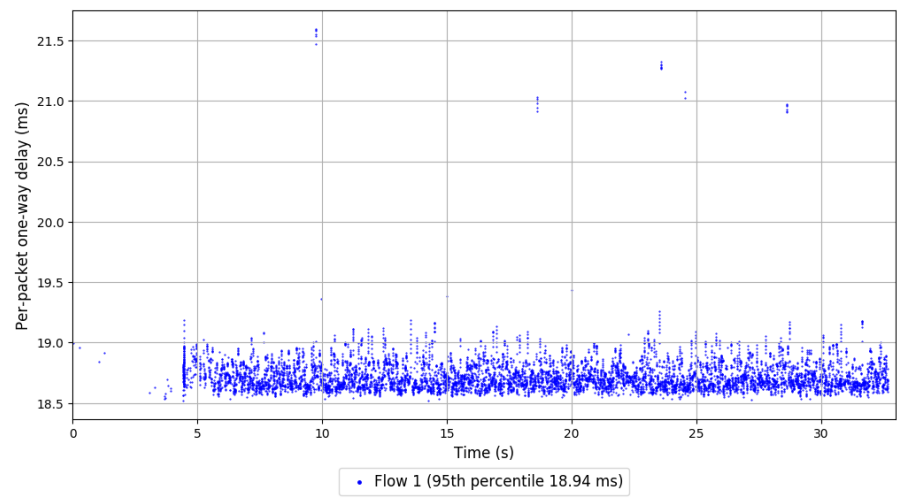
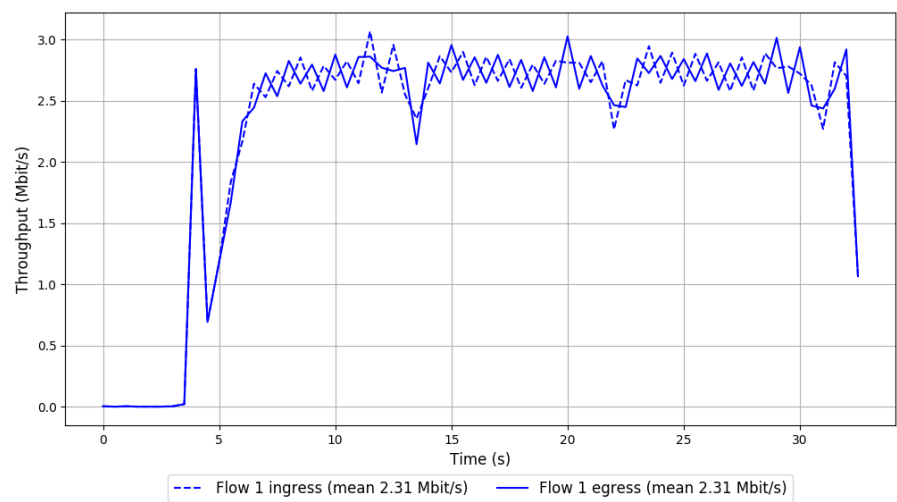


Run 6: Statistics of WebRTC media

Start at: 2017-11-21 04:24:55
End at: 2017-11-21 04:25:25
Local clock offset: 2.393 ms
Remote clock offset: -1.668 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

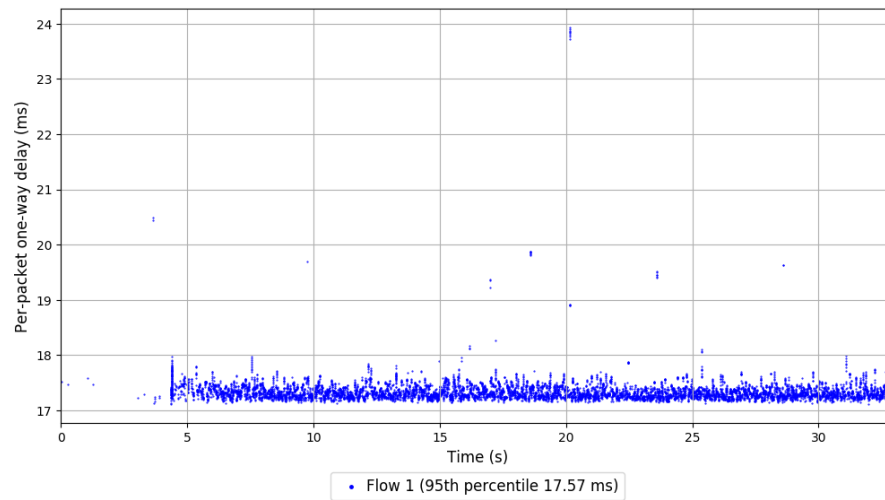
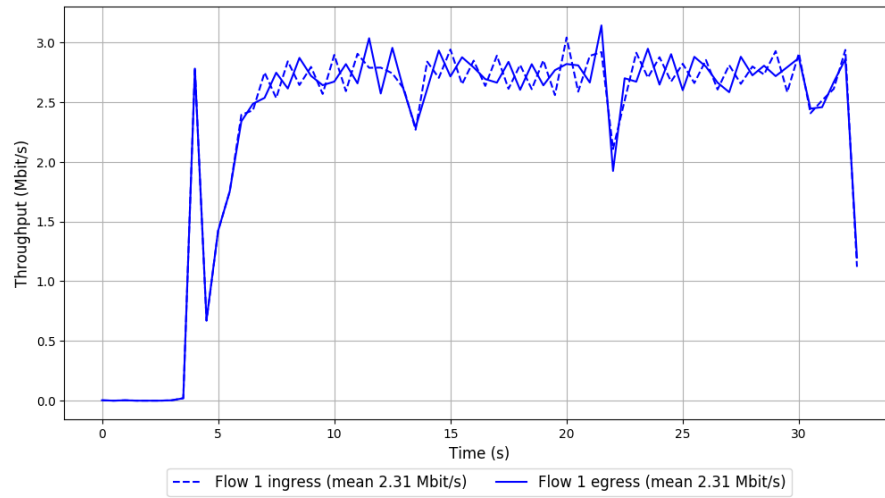


Run 7: Statistics of WebRTC media

Start at: 2017-11-21 04:43:26
End at: 2017-11-21 04:43:56
Local clock offset: 2.521 ms
Remote clock offset: -1.394 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 17.567 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 17.567 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

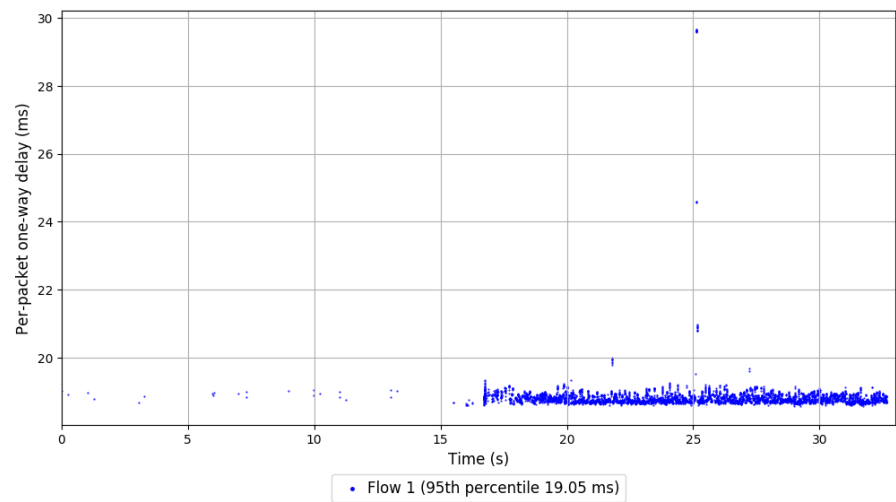
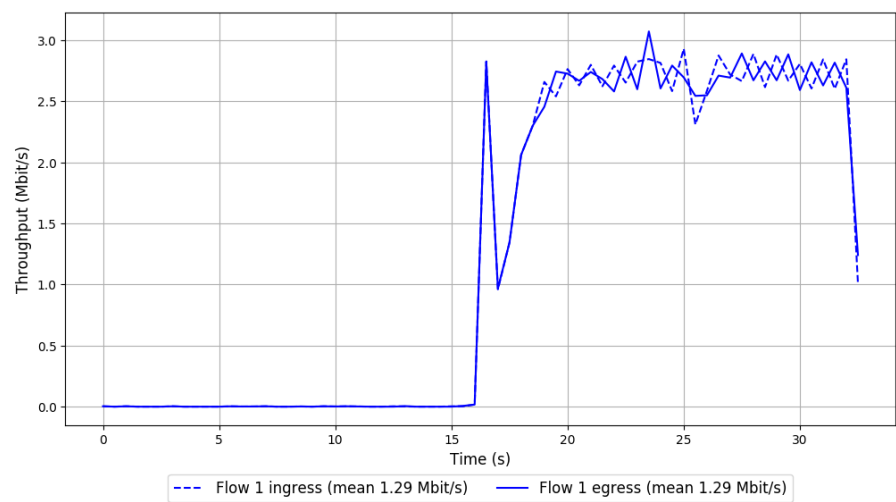


Run 8: Statistics of WebRTC media

Start at: 2017-11-21 05:01:59
End at: 2017-11-21 05:02:29
Local clock offset: 2.062 ms
Remote clock offset: -1.223 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 19.045 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 19.045 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

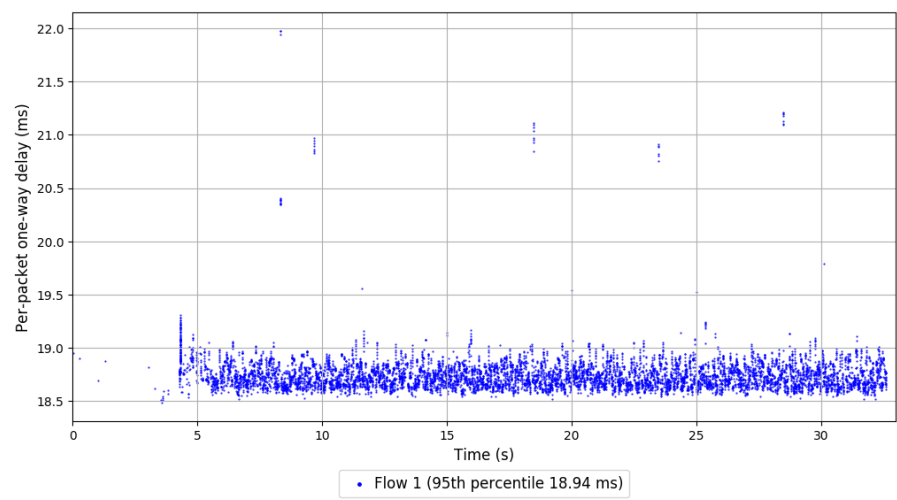
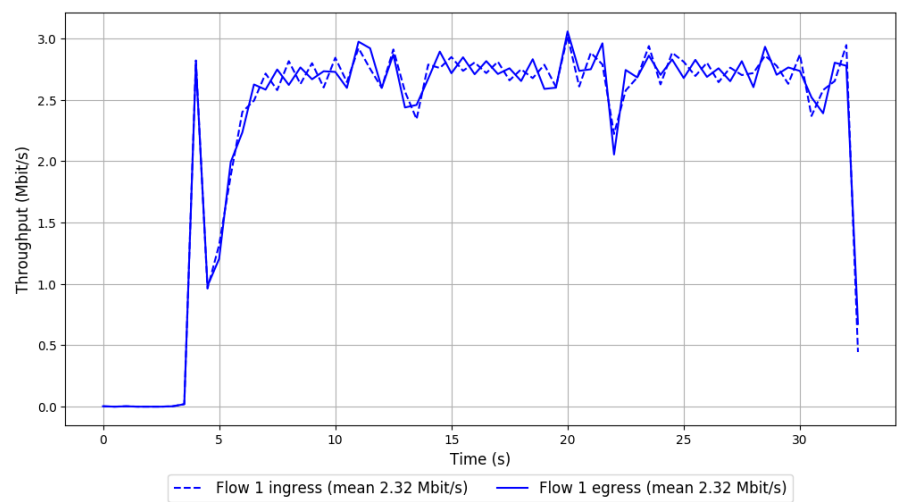


Run 9: Statistics of WebRTC media

Start at: 2017-11-21 05:20:29
End at: 2017-11-21 05:20:59
Local clock offset: 1.459 ms
Remote clock offset: -1.445 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 18.943 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-21 05:39:06

End at: 2017-11-21 05:39:36

Local clock offset: 1.061 ms

Remote clock offset: -1.447 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 19.287 ms

Loss rate: 0.02%

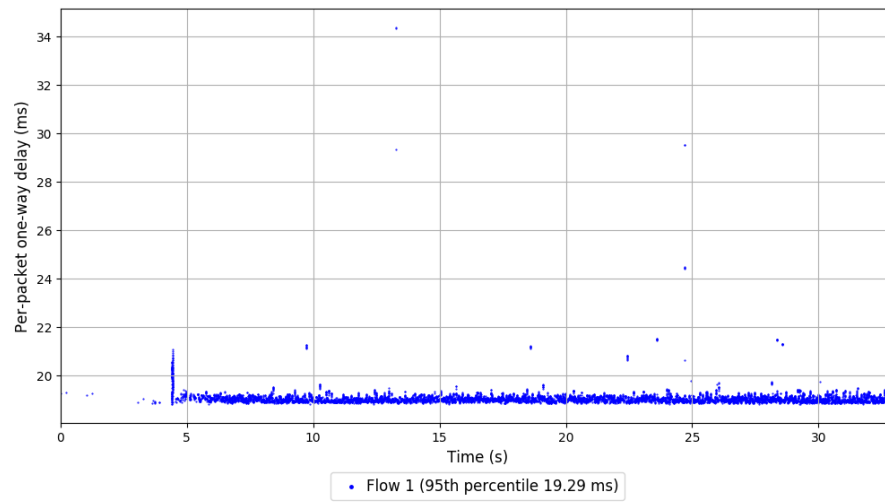
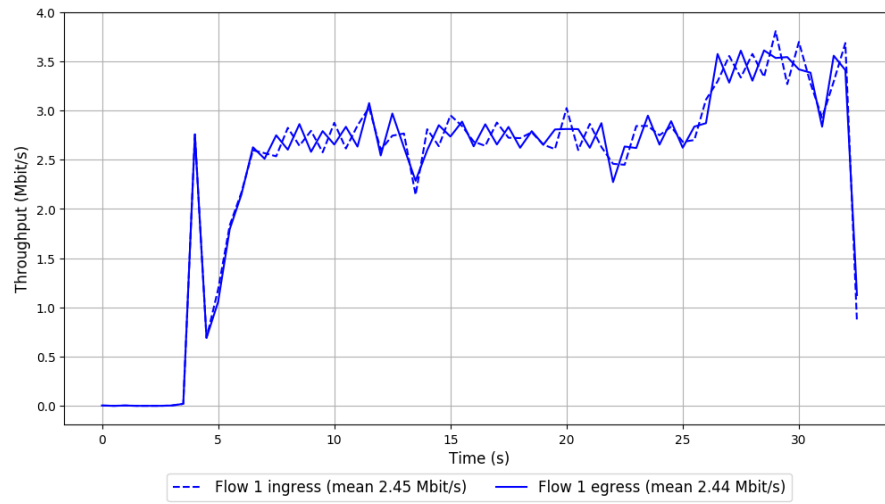
-- Flow 1:

Average throughput: 2.44 Mbit/s

95th percentile per-packet one-way delay: 19.287 ms

Loss rate: 0.02%

Run 10: Report of WebRTC media — Data Link

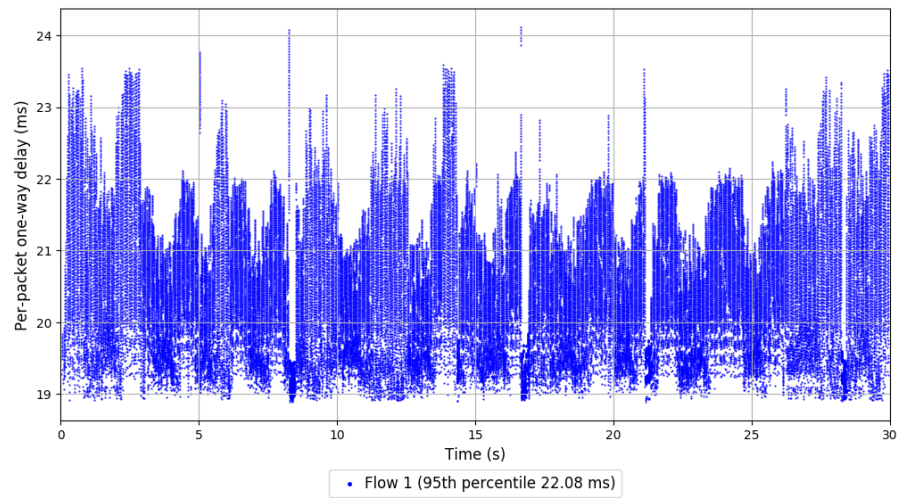
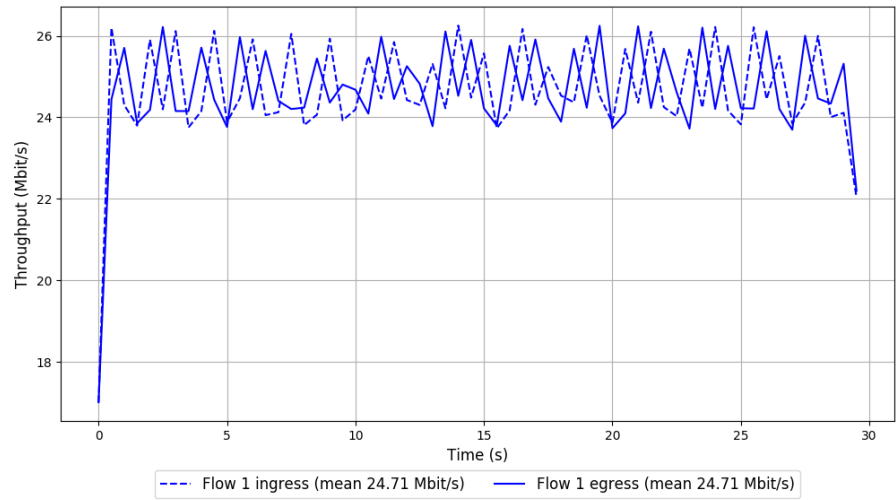


Run 1: Statistics of Sprout

Start at: 2017-11-21 02:44:54
End at: 2017-11-21 02:45:24
Local clock offset: 1.932 ms
Remote clock offset: -0.782 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.076 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 22.076 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-11-21 03:03:45

End at: 2017-11-21 03:04:15

Local clock offset: 2.059 ms

Remote clock offset: -1.13 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 21.446 ms

Loss rate: 0.01%

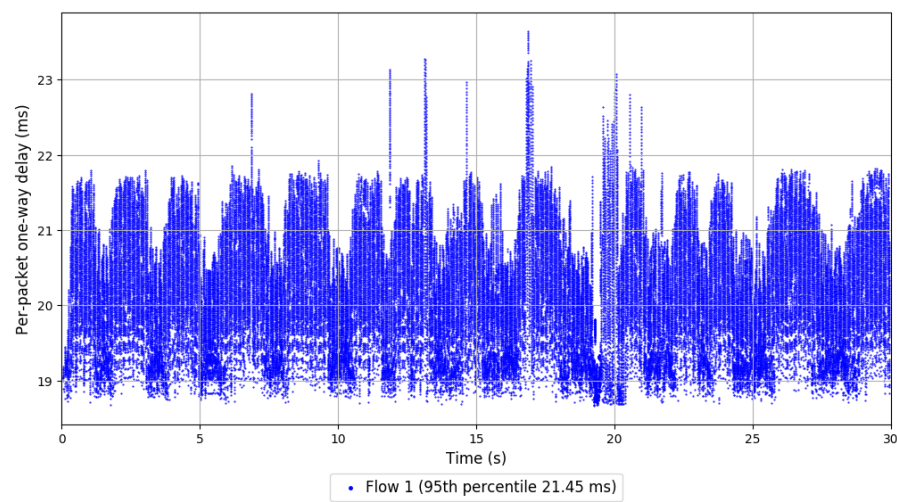
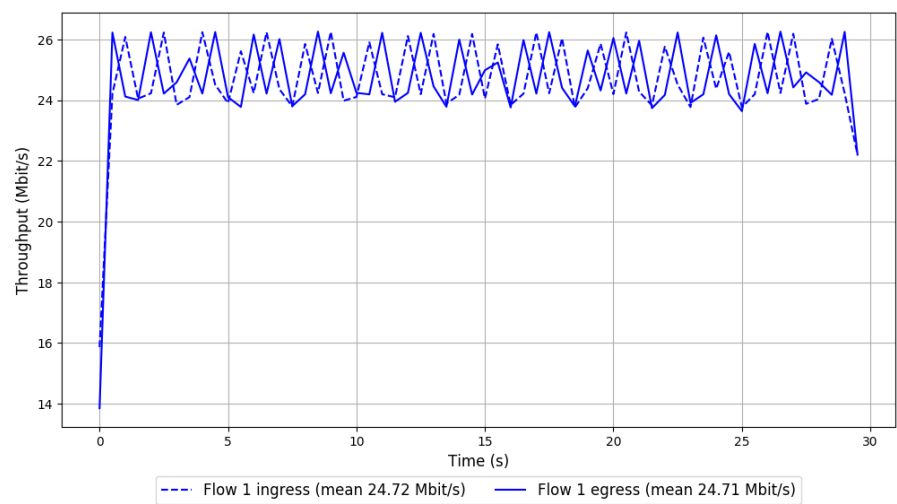
-- Flow 1:

Average throughput: 24.71 Mbit/s

95th percentile per-packet one-way delay: 21.446 ms

Loss rate: 0.01%

Run 2: Report of Sprout — Data Link

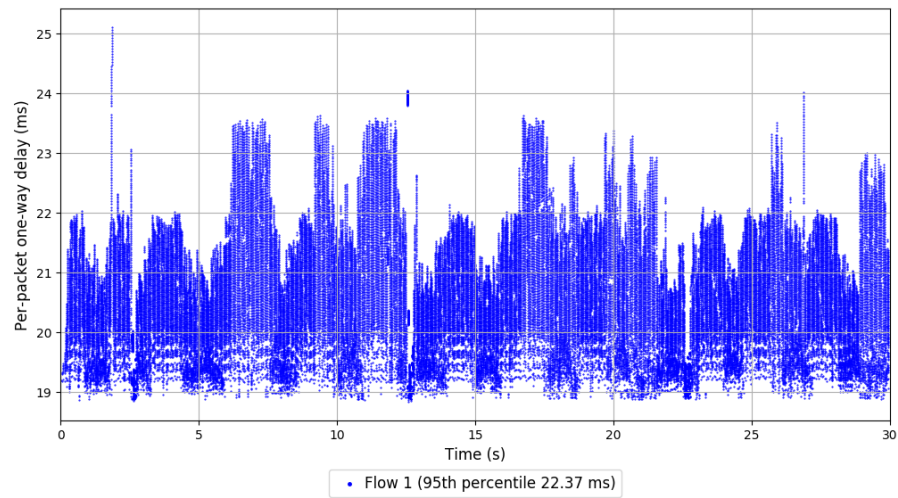
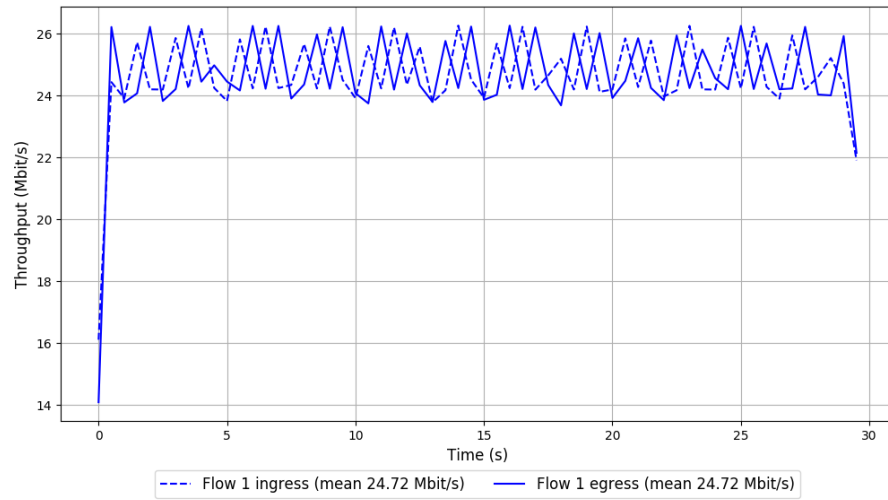


Run 3: Statistics of Sprout

Start at: 2017-11-21 03:22:14
End at: 2017-11-21 03:22:44
Local clock offset: 2.406 ms
Remote clock offset: -1.557 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 22.373 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.72 Mbit/s
95th percentile per-packet one-way delay: 22.373 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

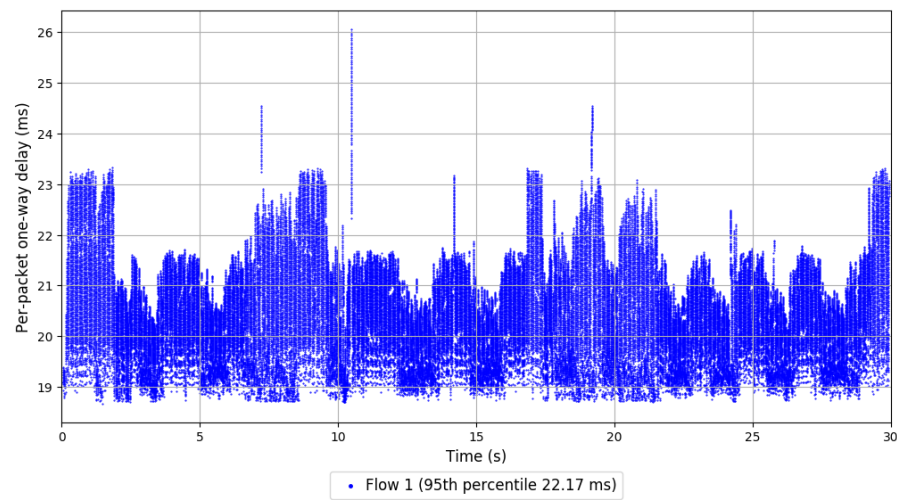
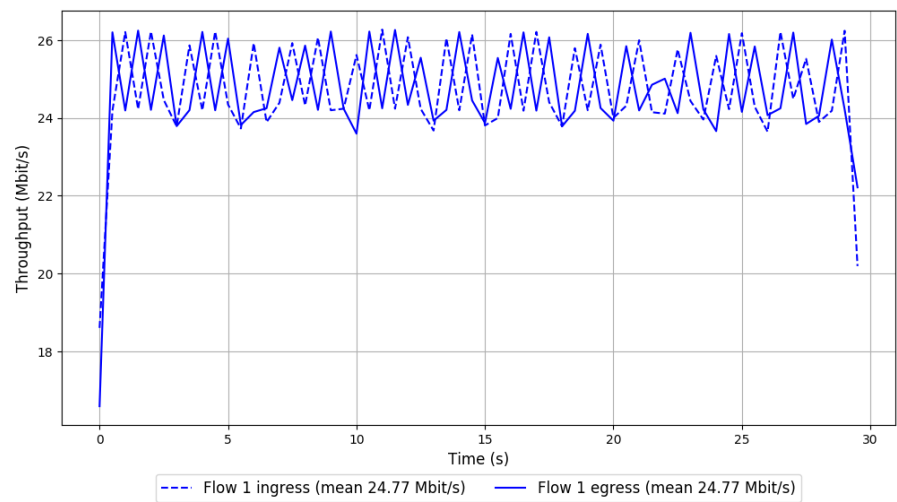


Run 4: Statistics of Sprout

Start at: 2017-11-21 03:40:50
End at: 2017-11-21 03:41:20
Local clock offset: 2.225 ms
Remote clock offset: -1.864 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 22.171 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 22.171 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

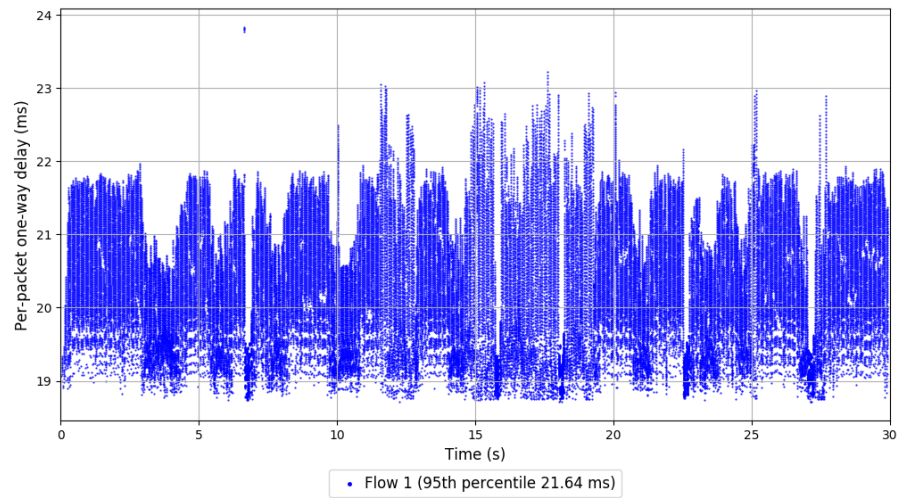
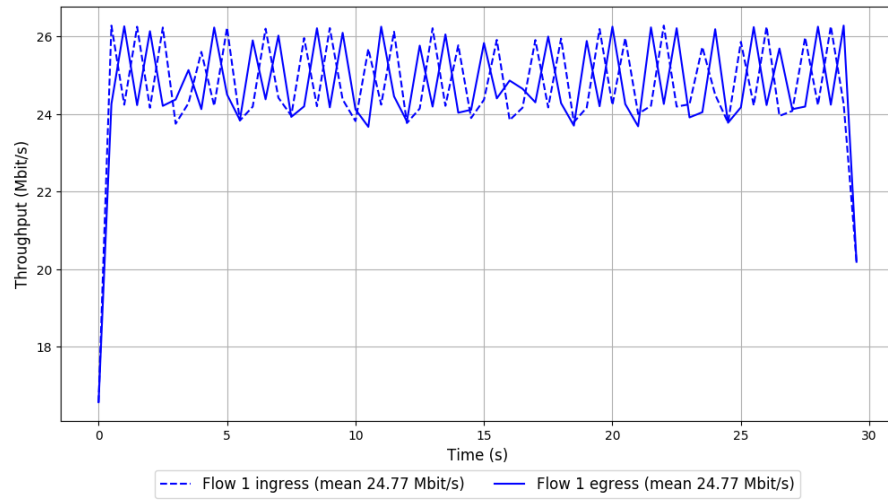


Run 5: Statistics of Sprout

Start at: 2017-11-21 03:59:25
End at: 2017-11-21 03:59:55
Local clock offset: 2.283 ms
Remote clock offset: -1.663 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 21.644 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 21.644 ms
Loss rate: 0.01%

Run 5: Report of Sprout — Data Link

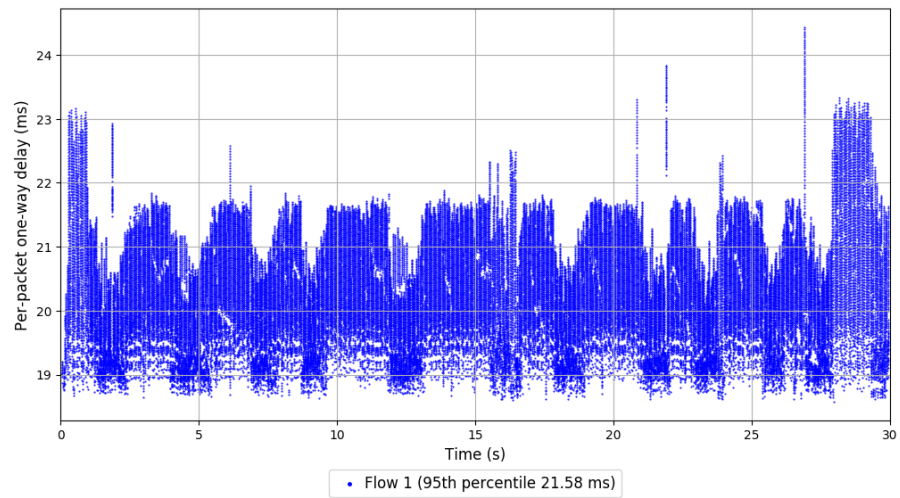
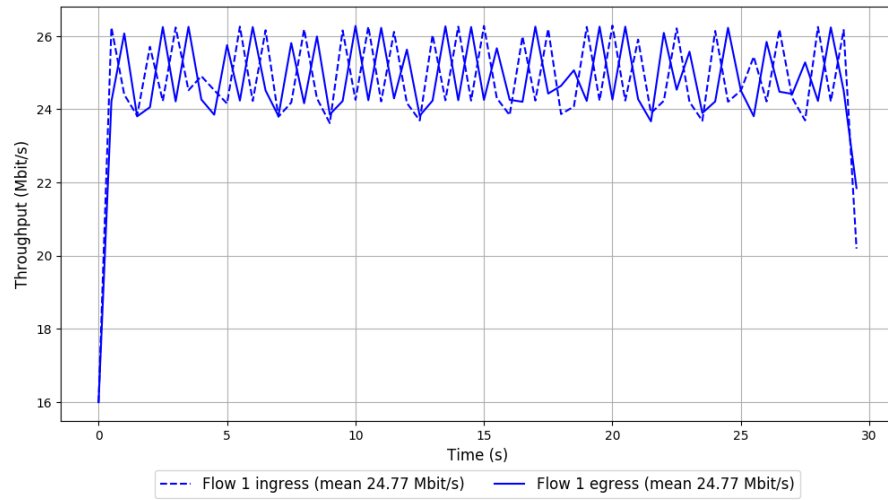


Run 6: Statistics of Sprout

Start at: 2017-11-21 04:17:55
End at: 2017-11-21 04:18:25
Local clock offset: 2.376 ms
Remote clock offset: -1.681 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 21.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.77 Mbit/s
95th percentile per-packet one-way delay: 21.583 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

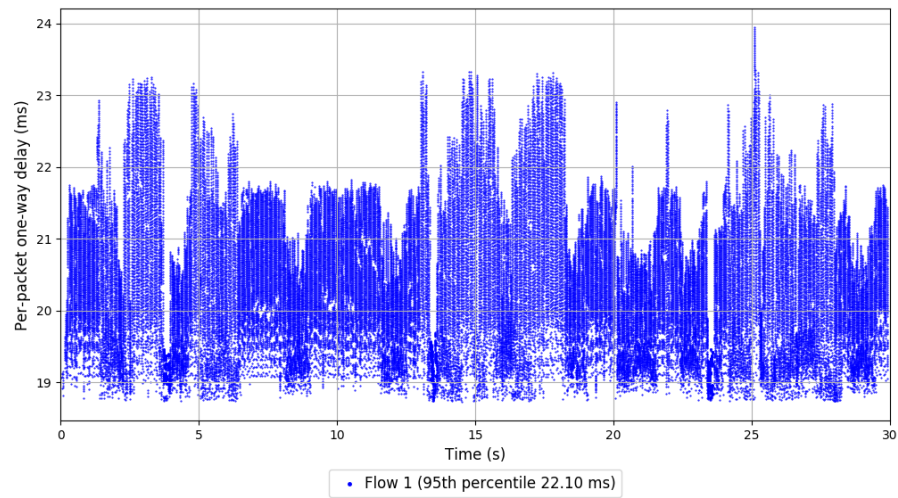
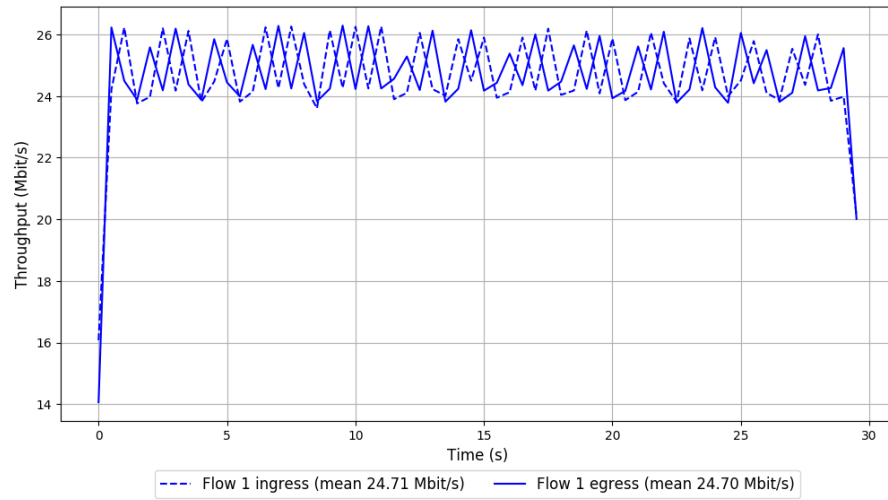


Run 7: Statistics of Sprout

Start at: 2017-11-21 04:36:33
End at: 2017-11-21 04:37:03
Local clock offset: 2.362 ms
Remote clock offset: -1.486 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.103 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 24.70 Mbit/s
95th percentile per-packet one-way delay: 22.103 ms
Loss rate: 0.02%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2017-11-21 04:54:56

End at: 2017-11-21 04:55:26

Local clock offset: 2.466 ms

Remote clock offset: -1.16 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 22.117 ms

Loss rate: 0.03%

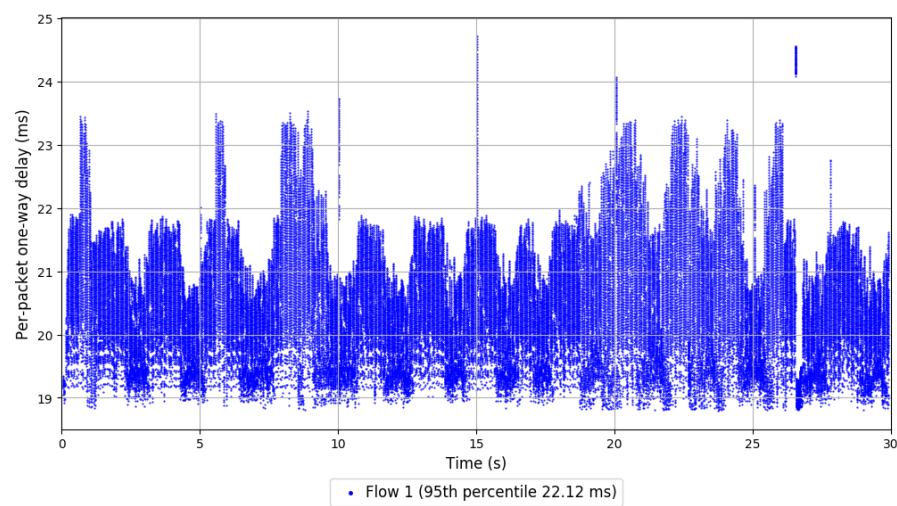
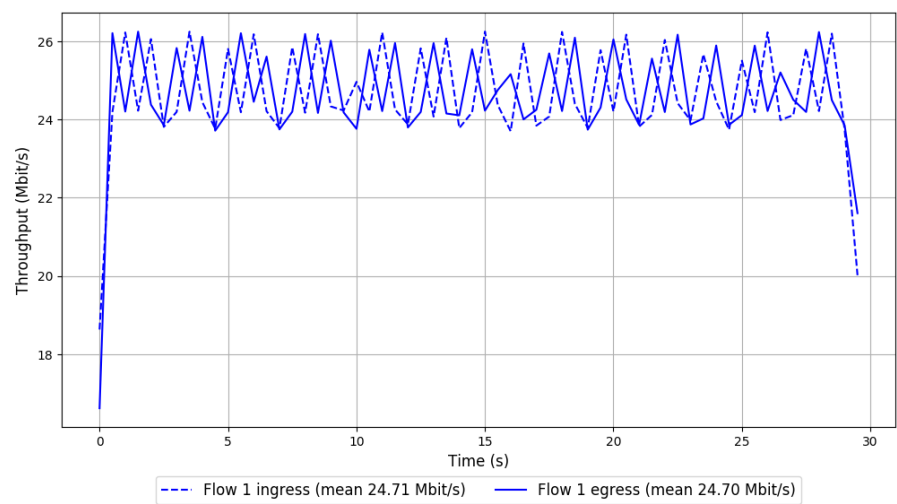
-- Flow 1:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 22.117 ms

Loss rate: 0.03%

Run 8: Report of Sprout — Data Link

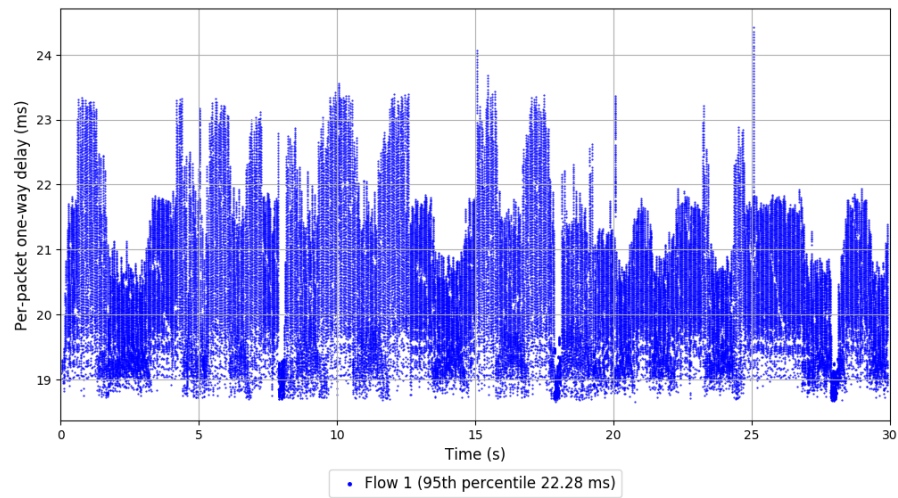
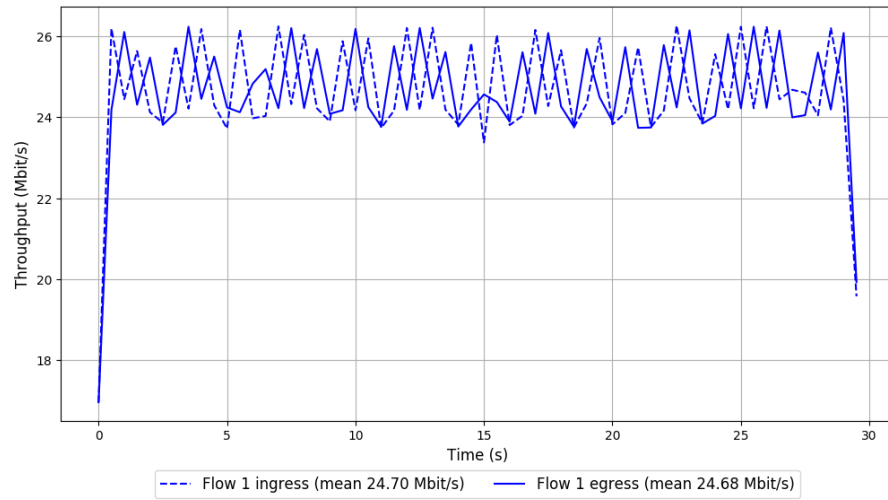


Run 9: Statistics of Sprout

Start at: 2017-11-21 05:13:34
End at: 2017-11-21 05:14:04
Local clock offset: 1.597 ms
Remote clock offset: -1.397 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.281 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 24.68 Mbit/s
95th percentile per-packet one-way delay: 22.281 ms
Loss rate: 0.09%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-21 05:32:03

End at: 2017-11-21 05:32:33

Local clock offset: 1.159 ms

Remote clock offset: -1.569 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 22.233 ms

Loss rate: 0.00%

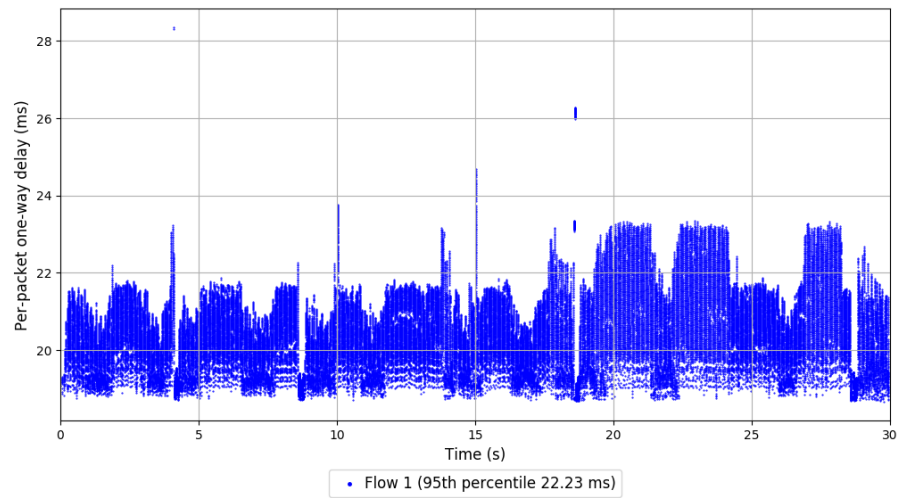
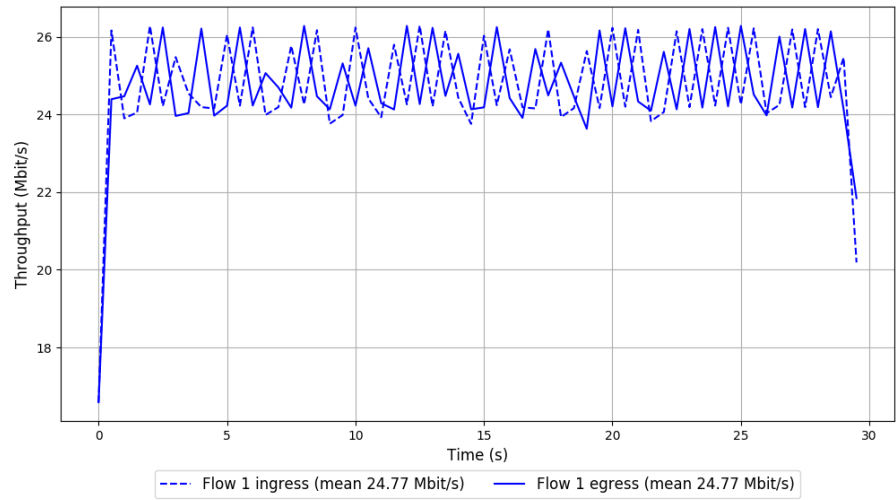
-- Flow 1:

Average throughput: 24.77 Mbit/s

95th percentile per-packet one-way delay: 22.233 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2017-11-21 02:56:59

End at: 2017-11-21 02:57:29

Local clock offset: 1.863 ms

Remote clock offset: -0.916 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.31 Mbit/s

95th percentile per-packet one-way delay: 18.863 ms

Loss rate: 0.00%

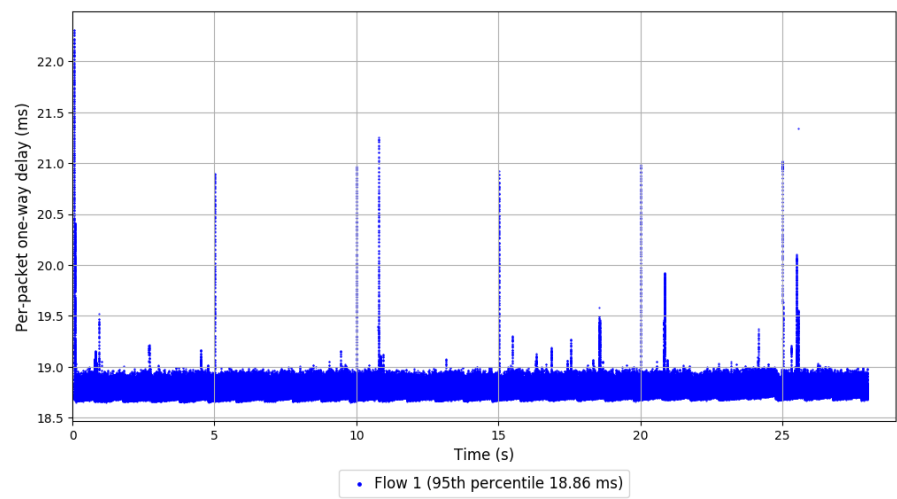
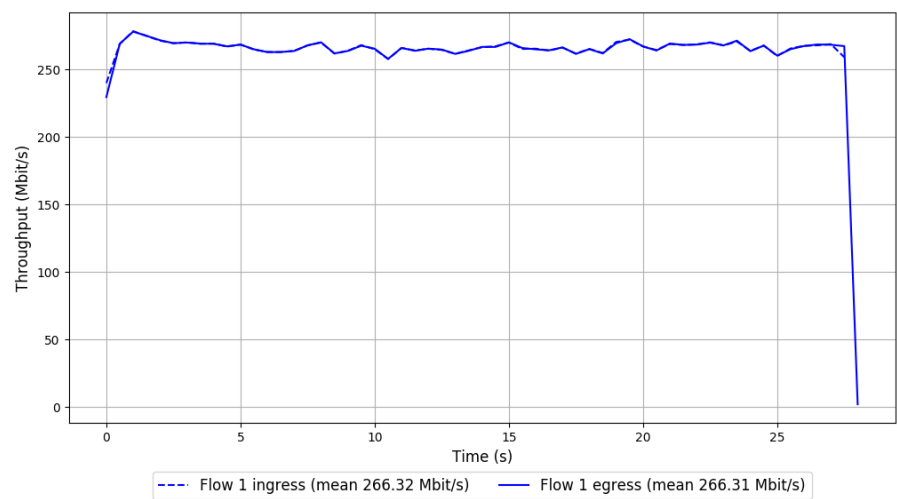
-- Flow 1:

Average throughput: 266.31 Mbit/s

95th percentile per-packet one-way delay: 18.863 ms

Loss rate: 0.00%

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

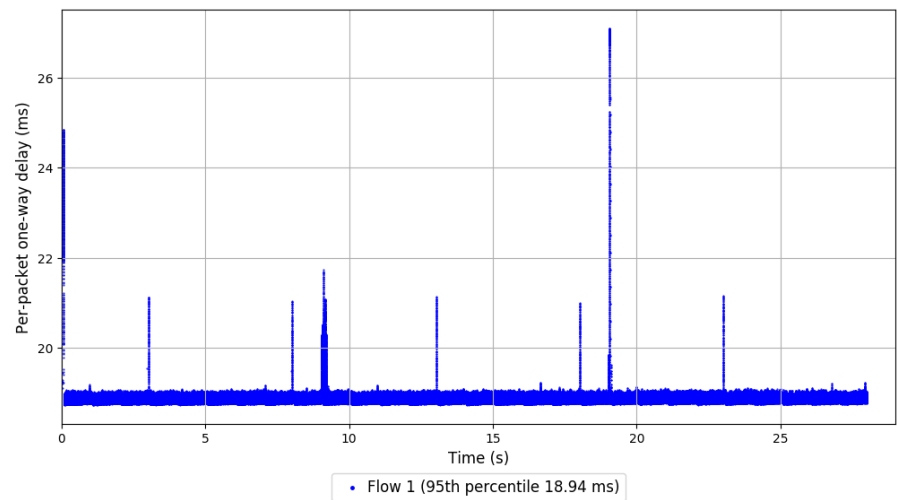
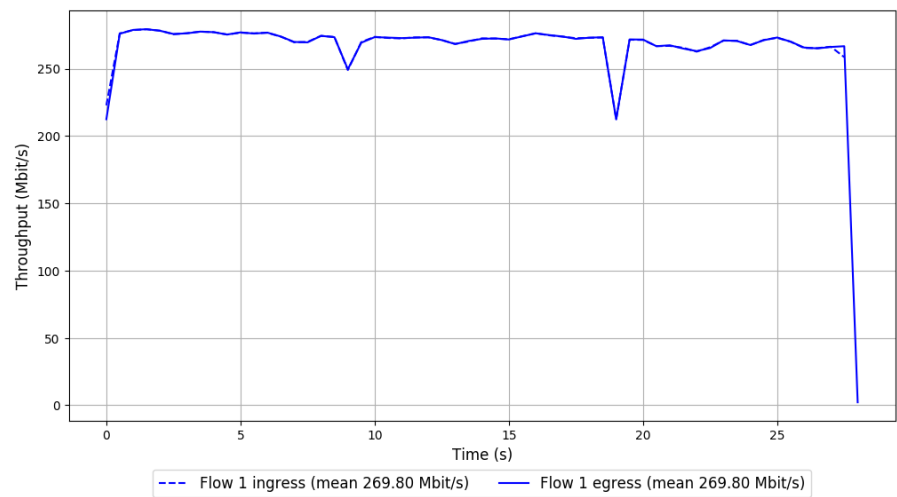


Run 2: Statistics of TaoVA-100x

Start at: 2017-11-21 03:15:41
End at: 2017-11-21 03:16:11
Local clock offset: 2.21 ms
Remote clock offset: -1.373 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 269.80 Mbit/s
95th percentile per-packet one-way delay: 18.940 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 269.80 Mbit/s
95th percentile per-packet one-way delay: 18.940 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2017-11-21 03:34:11

End at: 2017-11-21 03:34:41

Local clock offset: 2.328 ms

Remote clock offset: -1.702 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.45 Mbit/s

95th percentile per-packet one-way delay: 18.991 ms

Loss rate: 0.00%

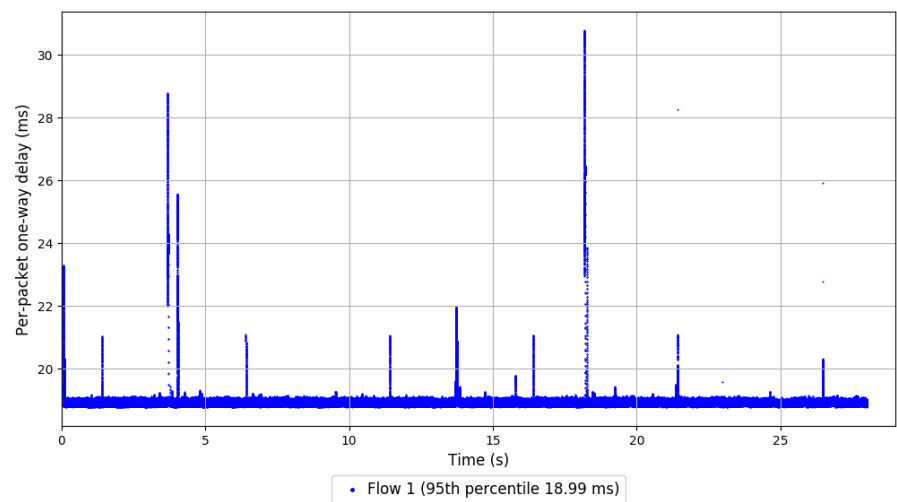
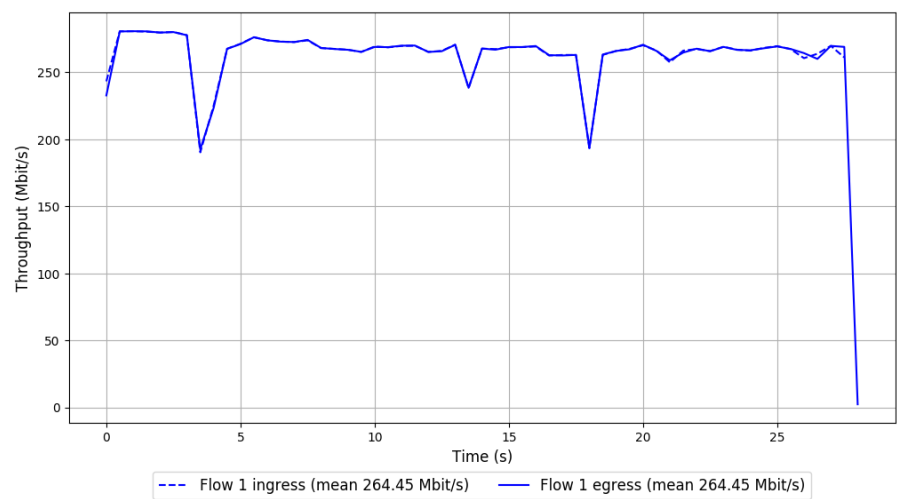
-- Flow 1:

Average throughput: 264.45 Mbit/s

95th percentile per-packet one-way delay: 18.991 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-21 03:52:53

End at: 2017-11-21 03:53:23

Local clock offset: 2.199 ms

Remote clock offset: -1.887 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.31 Mbit/s

95th percentile per-packet one-way delay: 19.052 ms

Loss rate: 0.00%

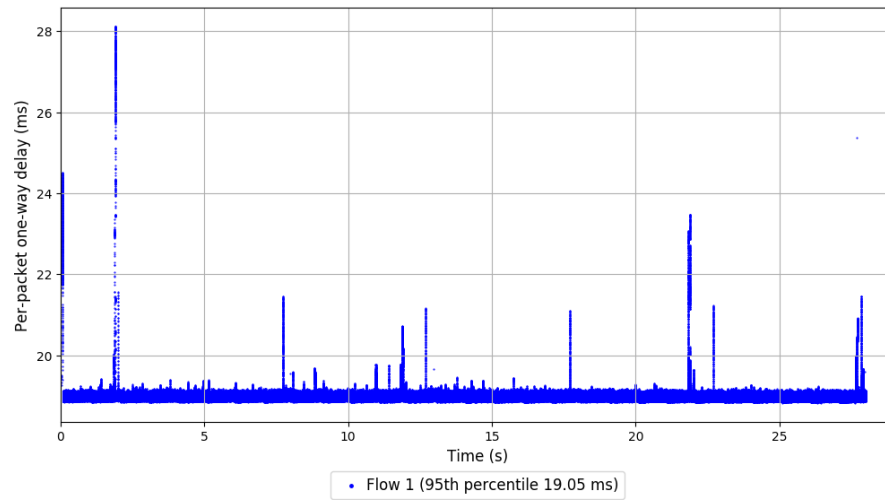
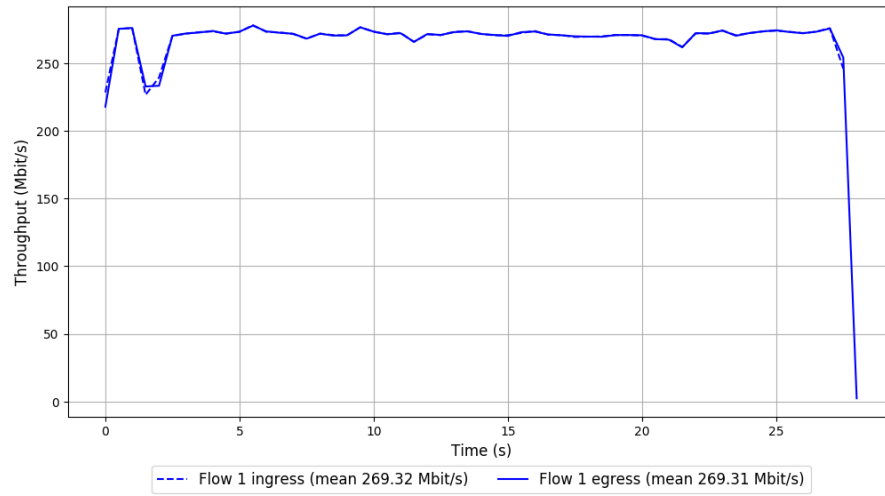
-- Flow 1:

Average throughput: 269.31 Mbit/s

95th percentile per-packet one-way delay: 19.052 ms

Loss rate: 0.00%

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

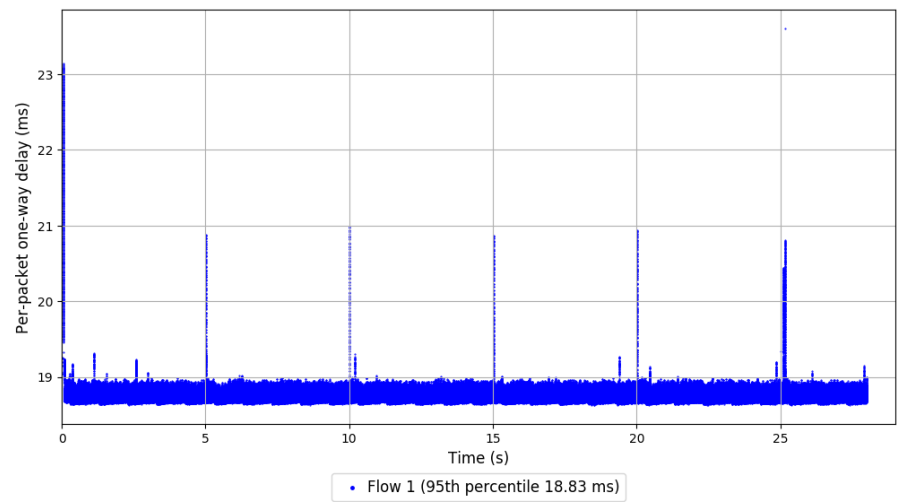
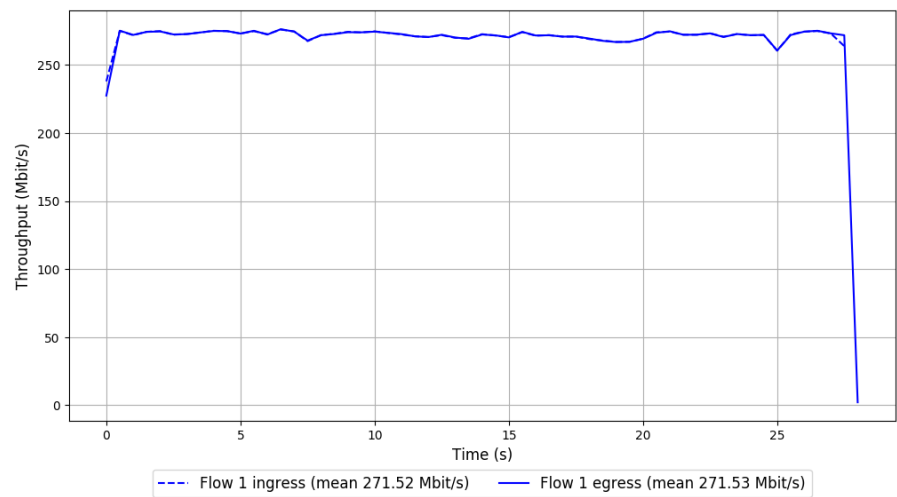


Run 5: Statistics of TaoVA-100x

Start at: 2017-11-21 04:11:18
End at: 2017-11-21 04:11:48
Local clock offset: 2.246 ms
Remote clock offset: -1.697 ms

Below is generated by plot.py at 2017-11-21 07:52:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.53 Mbit/s
95th percentile per-packet one-way delay: 18.833 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 271.53 Mbit/s
95th percentile per-packet one-way delay: 18.833 ms
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2017-11-21 04:29:56

End at: 2017-11-21 04:30:26

Local clock offset: 2.38 ms

Remote clock offset: -1.505 ms

Below is generated by plot.py at 2017-11-21 07:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.62 Mbit/s

95th percentile per-packet one-way delay: 18.887 ms

Loss rate: 0.00%

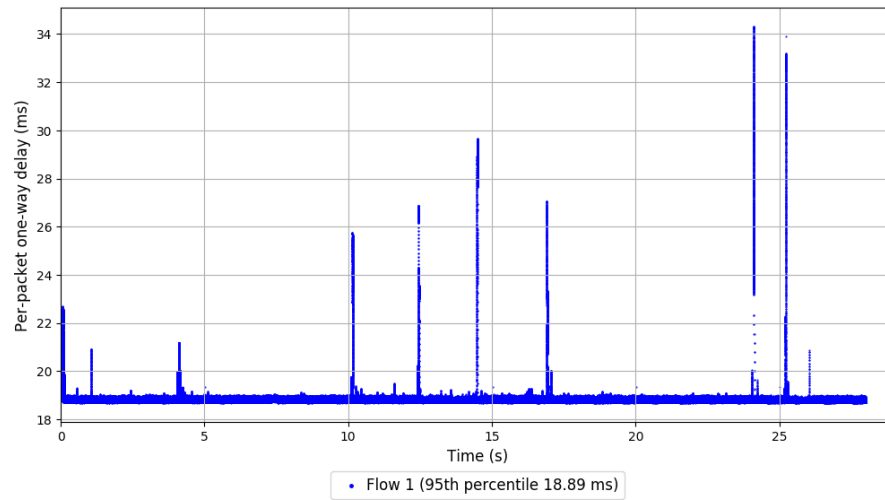
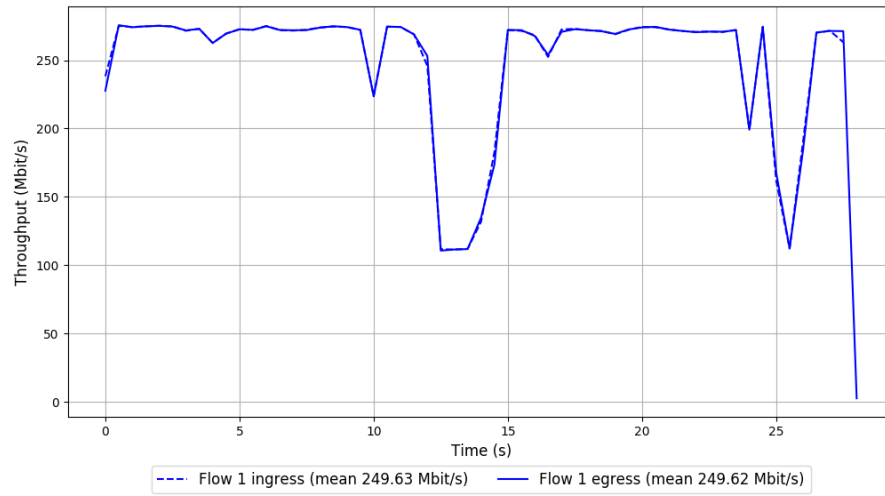
-- Flow 1:

Average throughput: 249.62 Mbit/s

95th percentile per-packet one-way delay: 18.887 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2017-11-21 04:48:27

End at: 2017-11-21 04:48:57

Local clock offset: 2.565 ms

Remote clock offset: -1.273 ms

Below is generated by plot.py at 2017-11-21 07:53:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 231.90 Mbit/s

95th percentile per-packet one-way delay: 18.746 ms

Loss rate: 0.01%

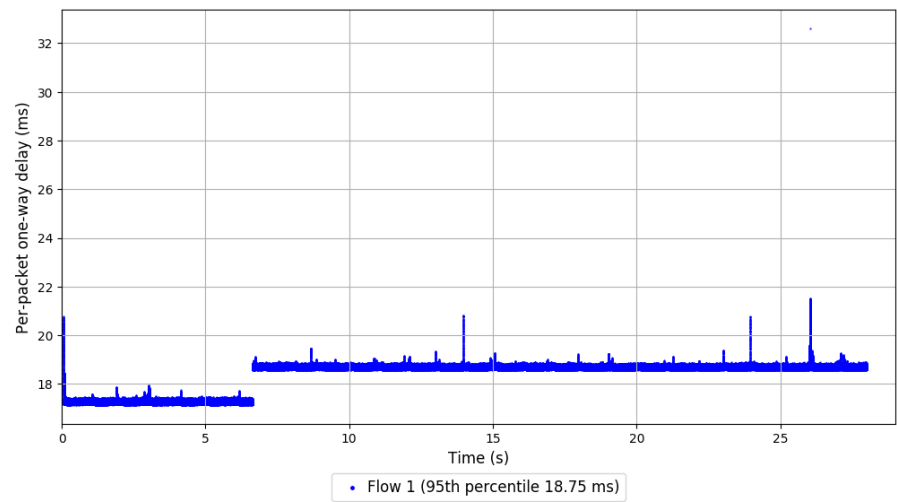
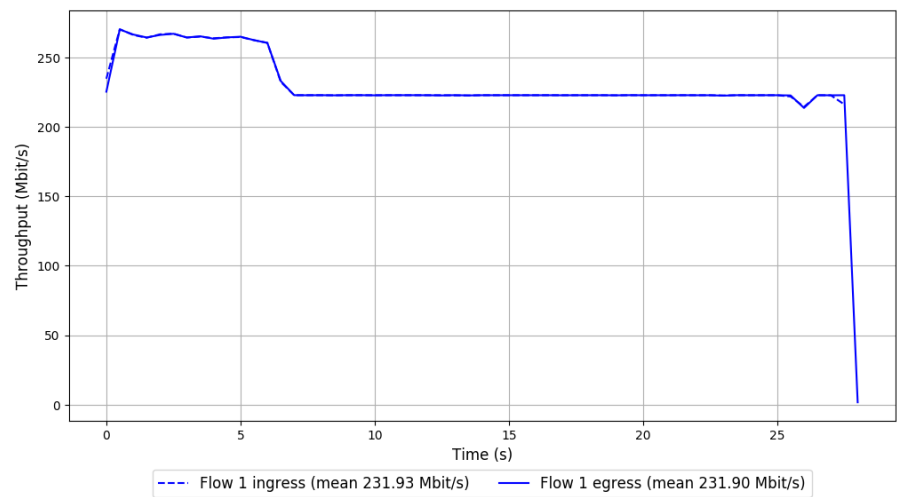
-- Flow 1:

Average throughput: 231.90 Mbit/s

95th percentile per-packet one-way delay: 18.746 ms

Loss rate: 0.01%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-11-21 05:07:00

End at: 2017-11-21 05:07:30

Local clock offset: 1.859 ms

Remote clock offset: -1.249 ms

Below is generated by plot.py at 2017-11-21 07:58:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.19 Mbit/s

95th percentile per-packet one-way delay: 18.866 ms

Loss rate: 0.00%

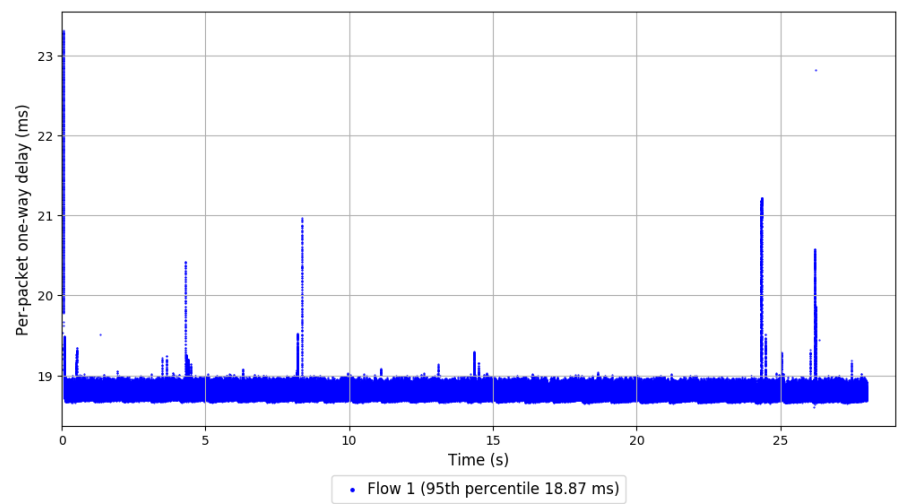
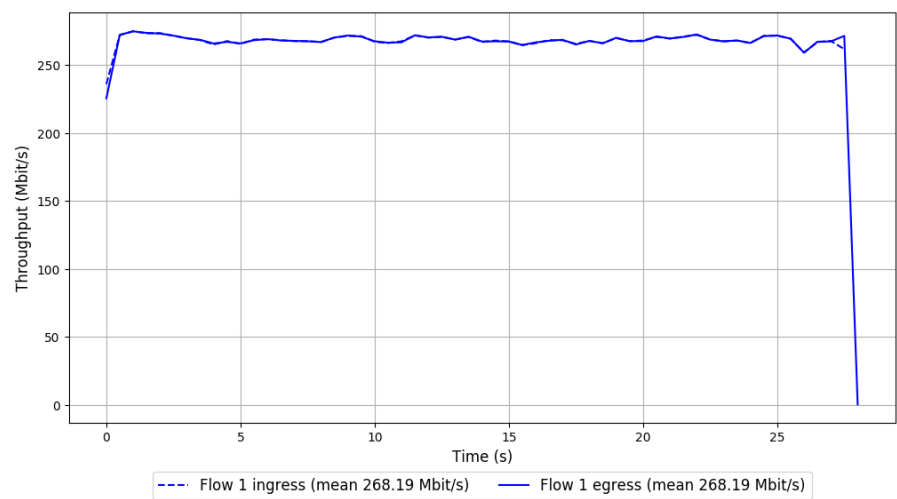
-- Flow 1:

Average throughput: 268.19 Mbit/s

95th percentile per-packet one-way delay: 18.866 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-21 05:25:31

End at: 2017-11-21 05:26:01

Local clock offset: 1.266 ms

Remote clock offset: -1.442 ms

Below is generated by plot.py at 2017-11-21 07:58:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.04 Mbit/s

95th percentile per-packet one-way delay: 18.942 ms

Loss rate: 0.00%

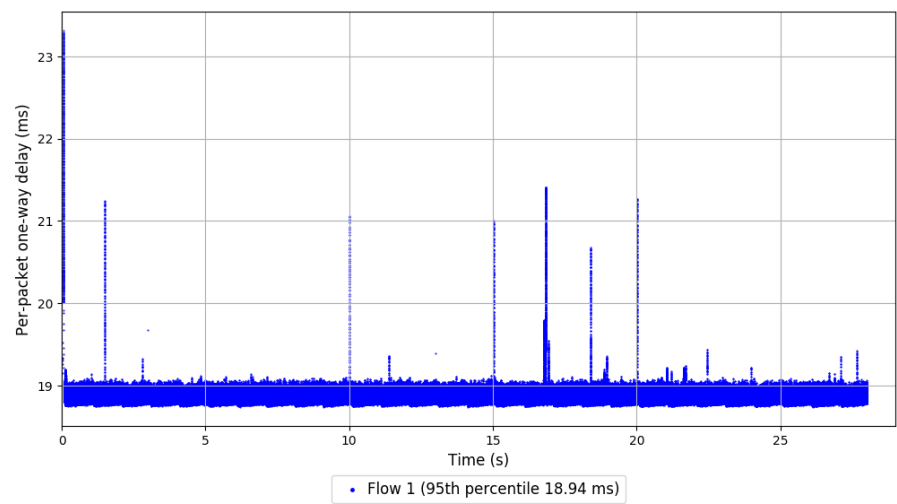
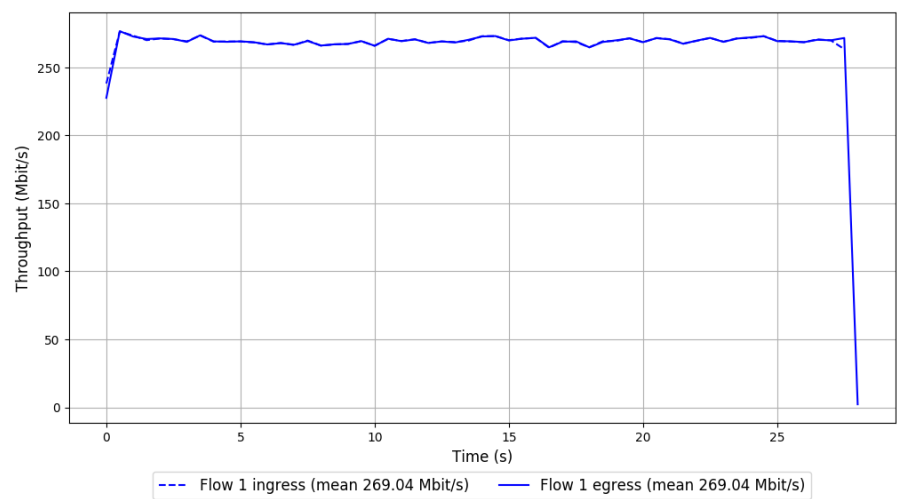
-- Flow 1:

Average throughput: 269.04 Mbit/s

95th percentile per-packet one-way delay: 18.942 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-11-21 05:44:08

End at: 2017-11-21 05:44:38

Local clock offset: 1.099 ms

Remote clock offset: -1.282 ms

Below is generated by plot.py at 2017-11-21 07:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.34 Mbit/s

95th percentile per-packet one-way delay: 19.028 ms

Loss rate: 0.03%

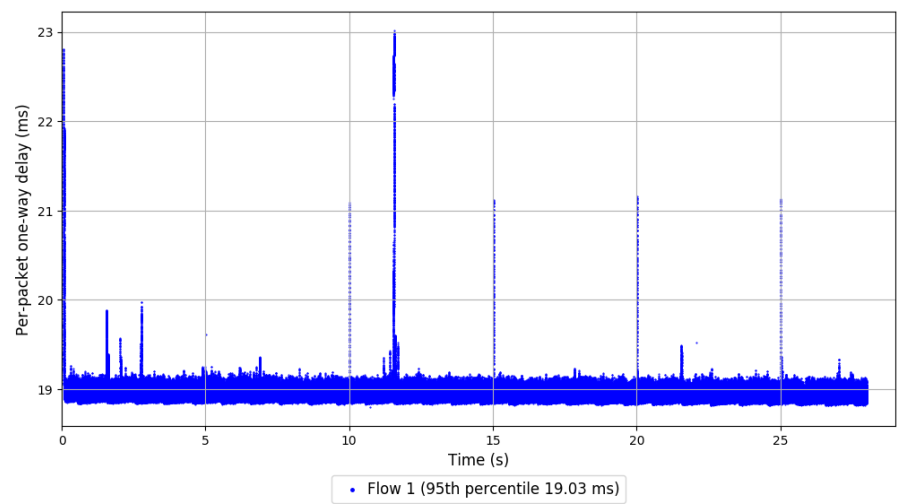
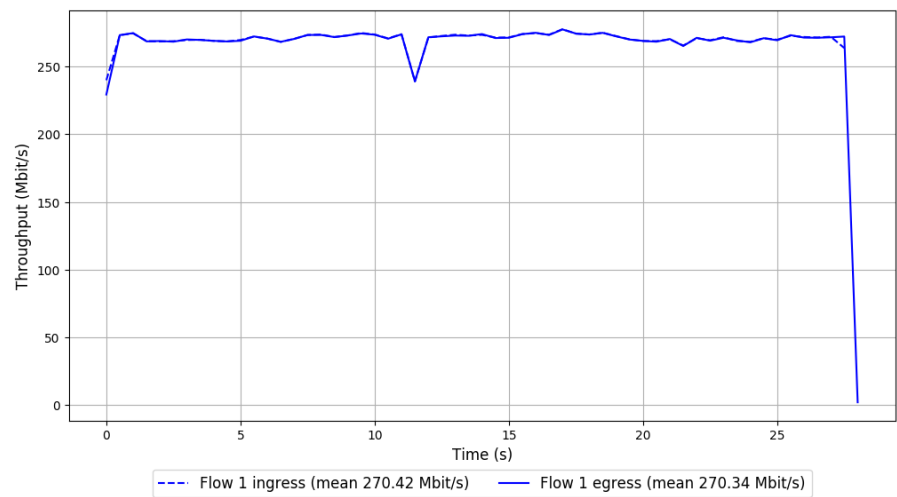
-- Flow 1:

Average throughput: 270.34 Mbit/s

95th percentile per-packet one-way delay: 19.028 ms

Loss rate: 0.03%

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

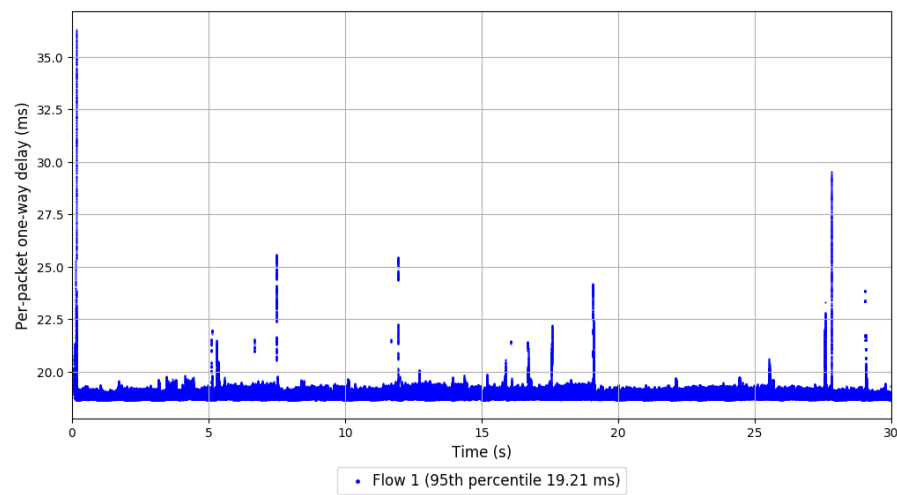
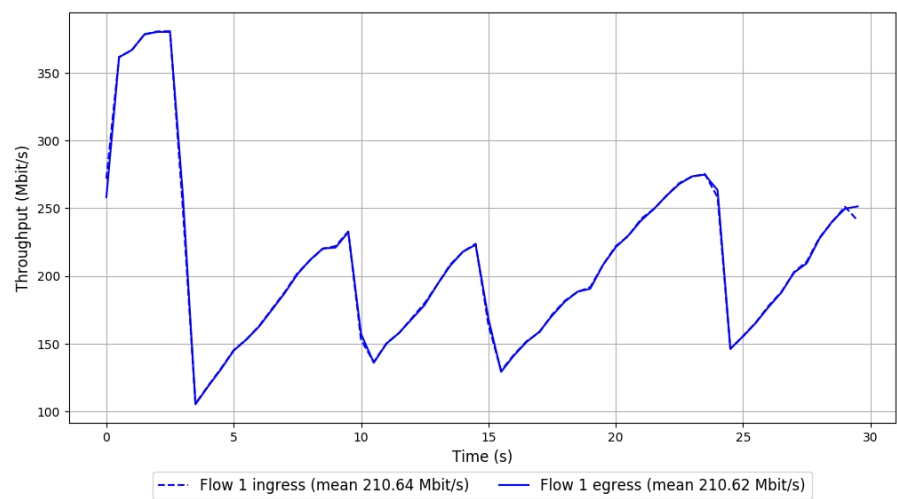


Run 1: Statistics of TCP Vegas

Start at: 2017-11-21 02:39:48
End at: 2017-11-21 02:40:18
Local clock offset: 1.864 ms
Remote clock offset: -0.836 ms

Below is generated by plot.py at 2017-11-21 07:58:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 210.62 Mbit/s
95th percentile per-packet one-way delay: 19.210 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 210.62 Mbit/s
95th percentile per-packet one-way delay: 19.210 ms
Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-11-21 02:58:28

End at: 2017-11-21 02:58:58

Local clock offset: 1.885 ms

Remote clock offset: -0.96 ms

Below is generated by plot.py at 2017-11-21 07:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.19 Mbit/s

95th percentile per-packet one-way delay: 17.842 ms

Loss rate: 0.07%

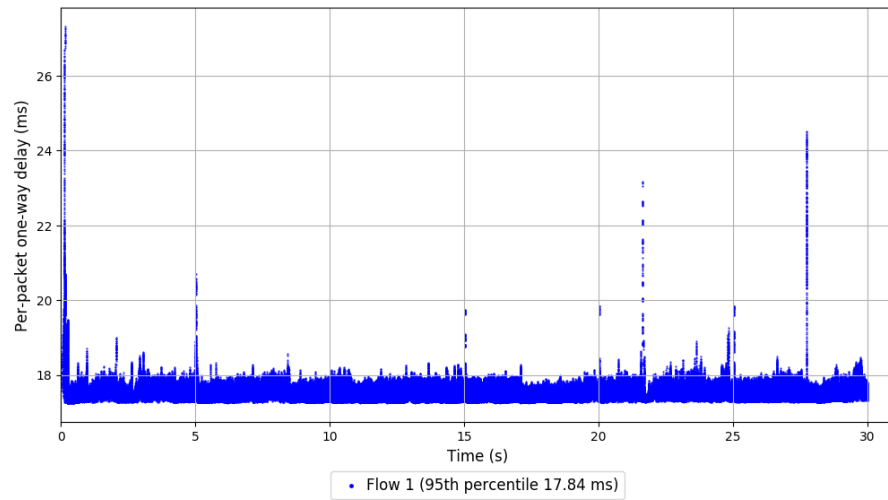
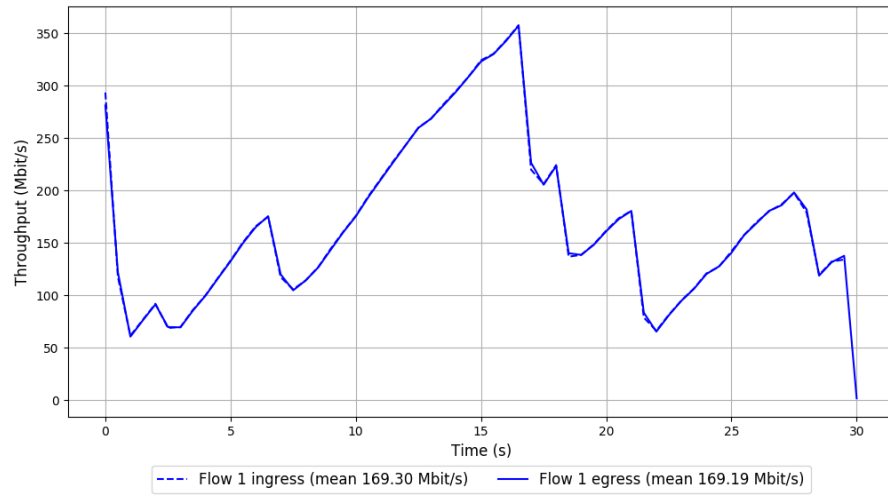
-- Flow 1:

Average throughput: 169.19 Mbit/s

95th percentile per-packet one-way delay: 17.842 ms

Loss rate: 0.07%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2017-11-21 03:17:10

End at: 2017-11-21 03:17:40

Local clock offset: 2.297 ms

Remote clock offset: -1.46 ms

Below is generated by plot.py at 2017-11-21 07:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 239.24 Mbit/s

95th percentile per-packet one-way delay: 19.370 ms

Loss rate: 0.00%

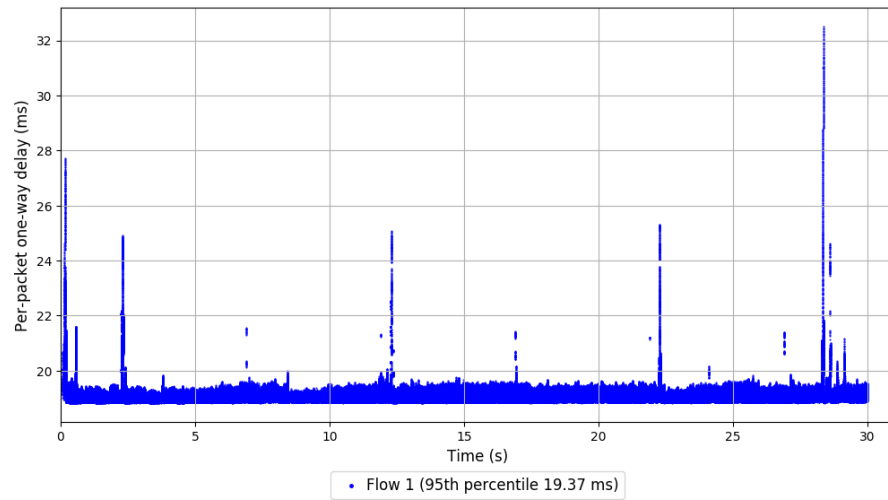
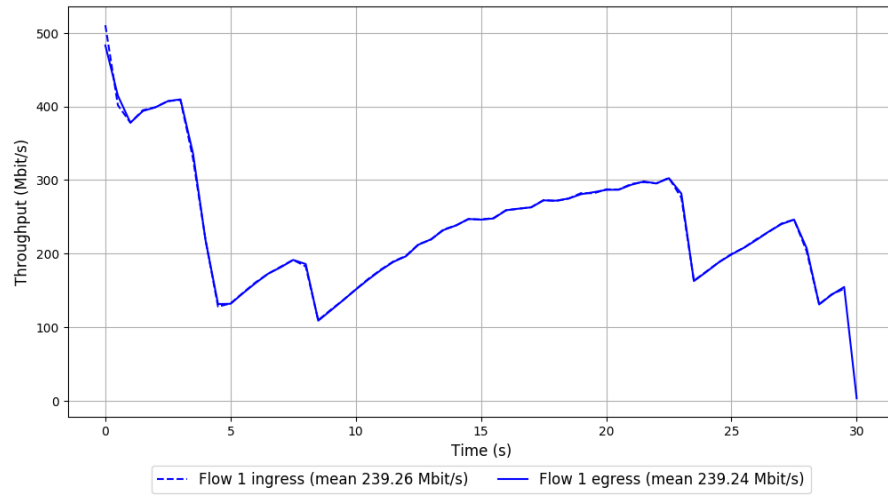
-- Flow 1:

Average throughput: 239.24 Mbit/s

95th percentile per-packet one-way delay: 19.370 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

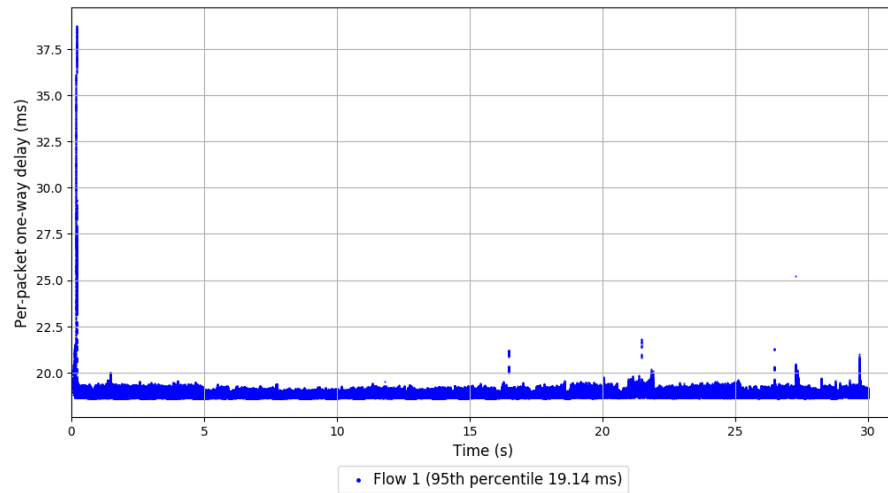
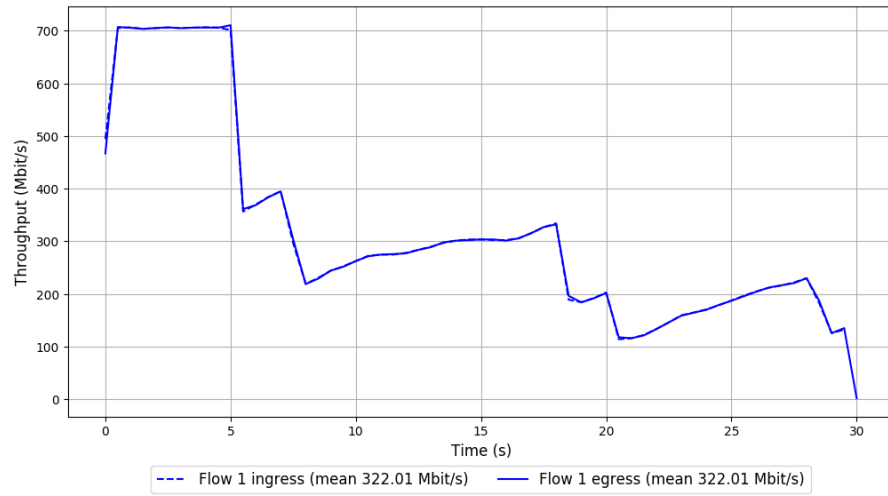


Run 4: Statistics of TCP Vegas

Start at: 2017-11-21 03:35:39
End at: 2017-11-21 03:36:09
Local clock offset: 2.315 ms
Remote clock offset: -1.747 ms

Below is generated by plot.py at 2017-11-21 07:58:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 322.01 Mbit/s
95th percentile per-packet one-way delay: 19.135 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.01 Mbit/s
95th percentile per-packet one-way delay: 19.135 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-11-21 03:54:22

End at: 2017-11-21 03:54:52

Local clock offset: 2.192 ms

Remote clock offset: -1.77 ms

Below is generated by plot.py at 2017-11-21 07:58:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.15 Mbit/s

95th percentile per-packet one-way delay: 19.623 ms

Loss rate: 0.14%

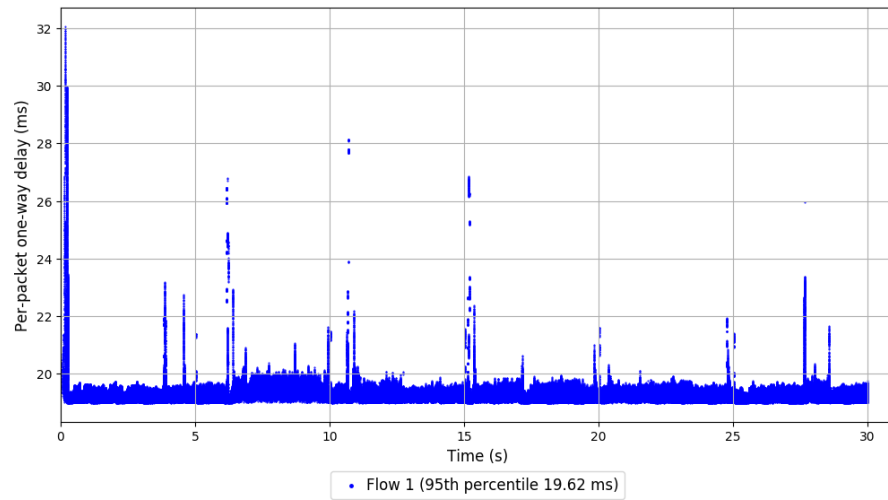
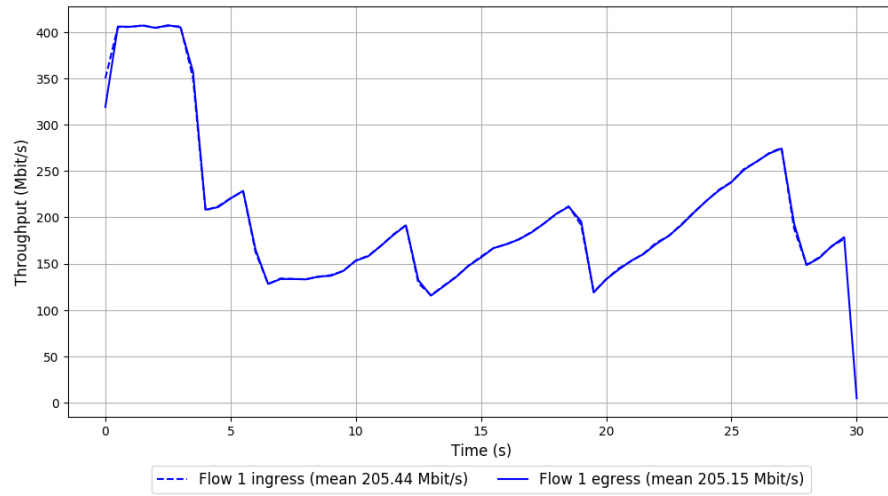
-- Flow 1:

Average throughput: 205.15 Mbit/s

95th percentile per-packet one-way delay: 19.623 ms

Loss rate: 0.14%

Run 5: Report of TCP Vegas — Data Link

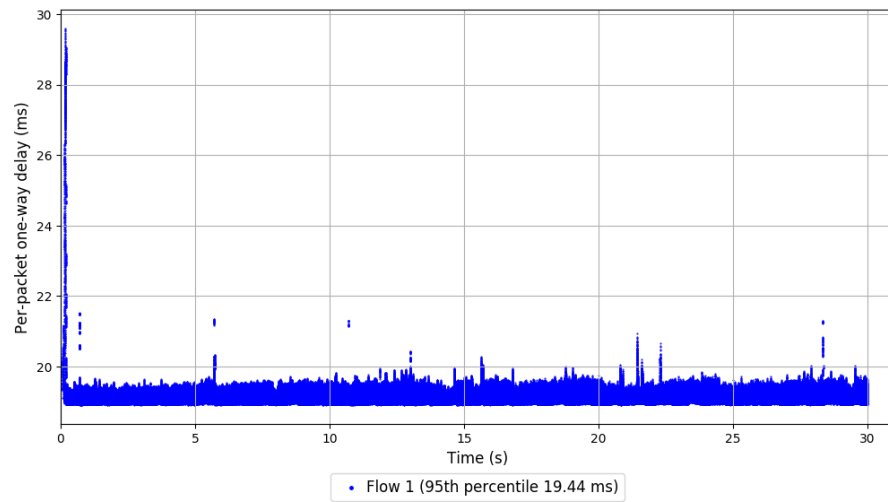
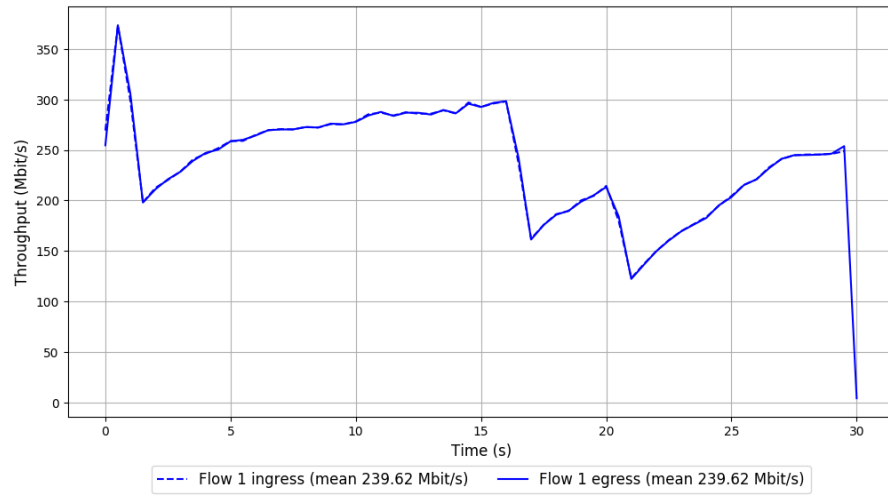


Run 6: Statistics of TCP Vegas

Start at: 2017-11-21 04:12:47
End at: 2017-11-21 04:13:17
Local clock offset: 2.248 ms
Remote clock offset: -1.682 ms

Below is generated by plot.py at 2017-11-21 07:58:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.62 Mbit/s
95th percentile per-packet one-way delay: 19.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.62 Mbit/s
95th percentile per-packet one-way delay: 19.438 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

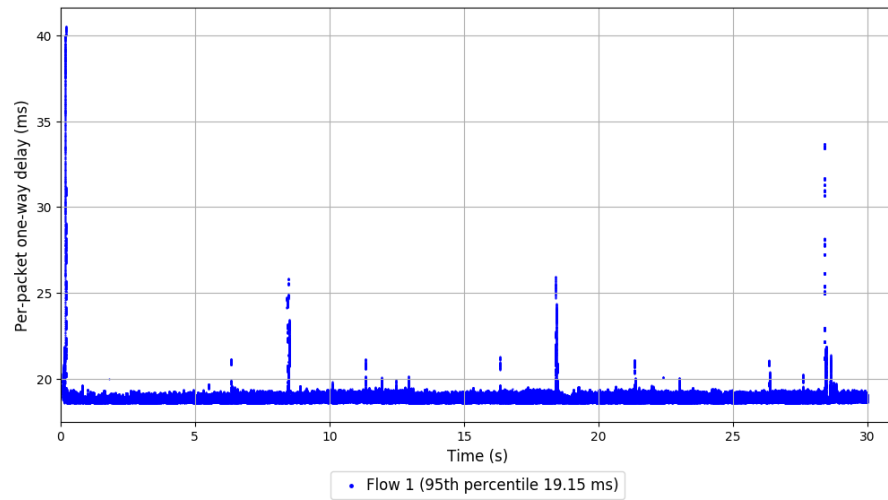
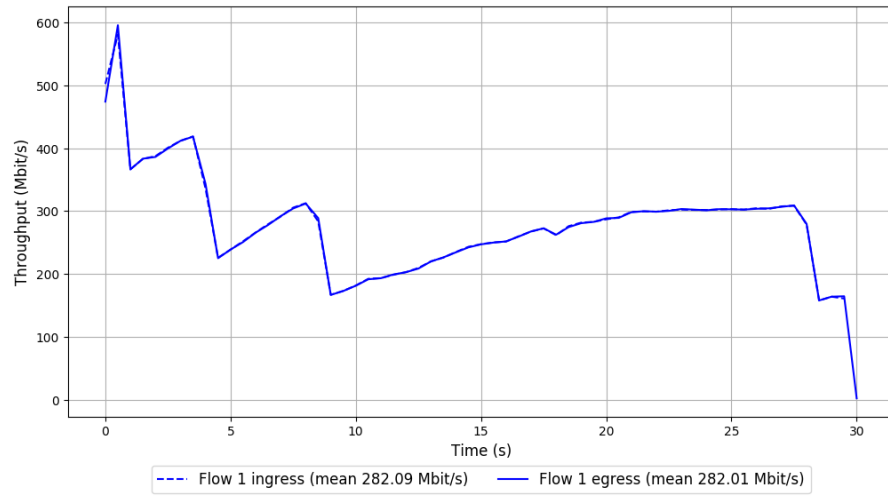


Run 7: Statistics of TCP Vegas

Start at: 2017-11-21 04:31:23
End at: 2017-11-21 04:31:53
Local clock offset: 2.412 ms
Remote clock offset: -1.547 ms

Below is generated by plot.py at 2017-11-21 07:58:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 282.01 Mbit/s
95th percentile per-packet one-way delay: 19.148 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 282.01 Mbit/s
95th percentile per-packet one-way delay: 19.148 ms
Loss rate: 0.03%

Run 7: Report of TCP Vegas — Data Link

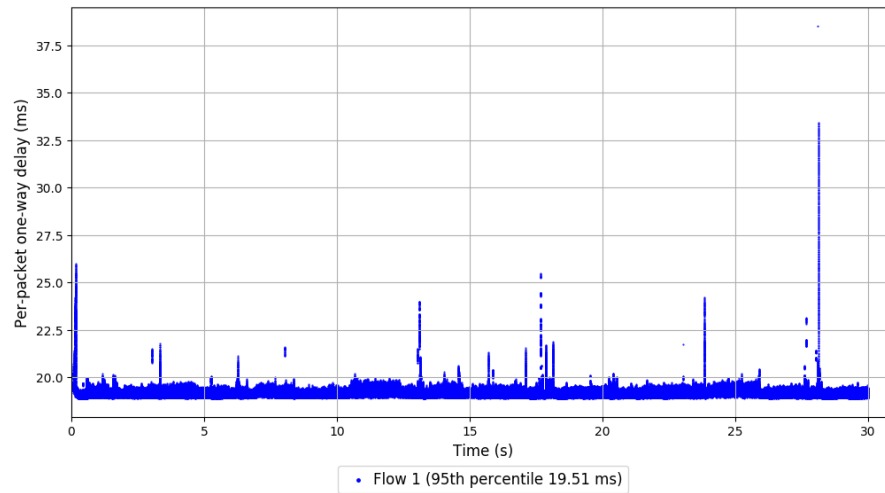
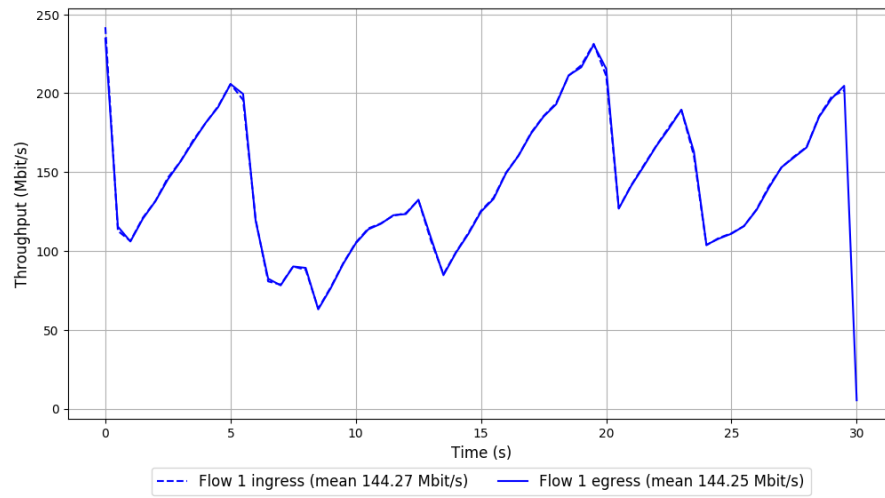


Run 8: Statistics of TCP Vegas

Start at: 2017-11-21 04:49:54
End at: 2017-11-21 04:50:24
Local clock offset: 2.568 ms
Remote clock offset: -1.169 ms

Below is generated by plot.py at 2017-11-21 07:58:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 144.25 Mbit/s
95th percentile per-packet one-way delay: 19.514 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 144.25 Mbit/s
95th percentile per-packet one-way delay: 19.514 ms
Loss rate: 0.01%

Run 8: Report of TCP Vegas — Data Link

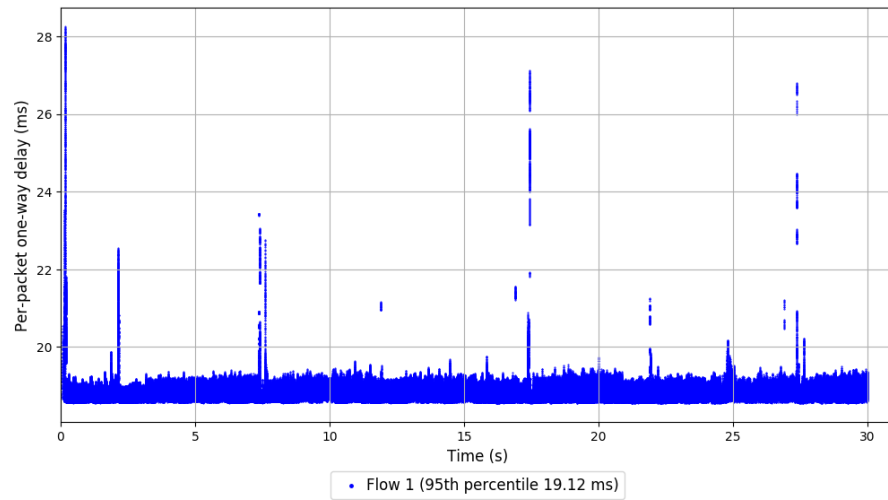
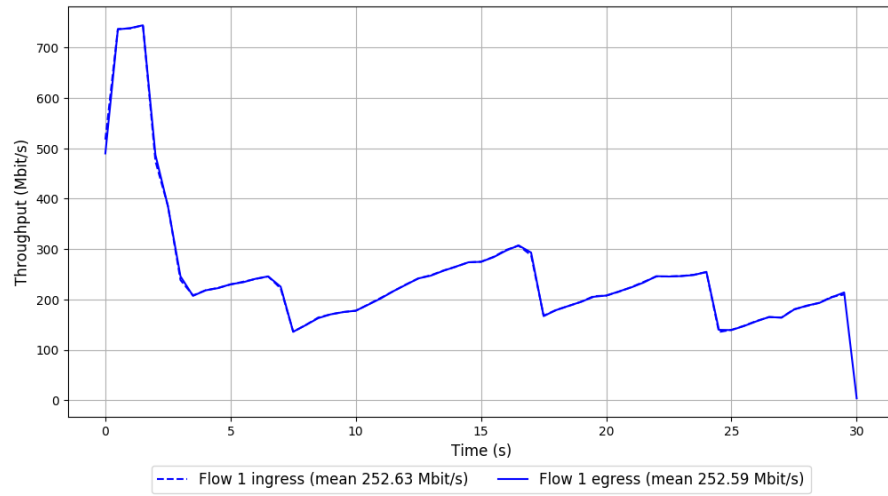


Run 9: Statistics of TCP Vegas

Start at: 2017-11-21 05:08:29
End at: 2017-11-21 05:08:59
Local clock offset: 1.883 ms
Remote clock offset: -1.332 ms

Below is generated by plot.py at 2017-11-21 08:00:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 252.59 Mbit/s
95th percentile per-packet one-way delay: 19.120 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 252.59 Mbit/s
95th percentile per-packet one-way delay: 19.120 ms
Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-21 05:26:59

End at: 2017-11-21 05:27:29

Local clock offset: 1.218 ms

Remote clock offset: -1.491 ms

Below is generated by plot.py at 2017-11-21 08:00:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.84 Mbit/s

95th percentile per-packet one-way delay: 19.370 ms

Loss rate: 0.00%

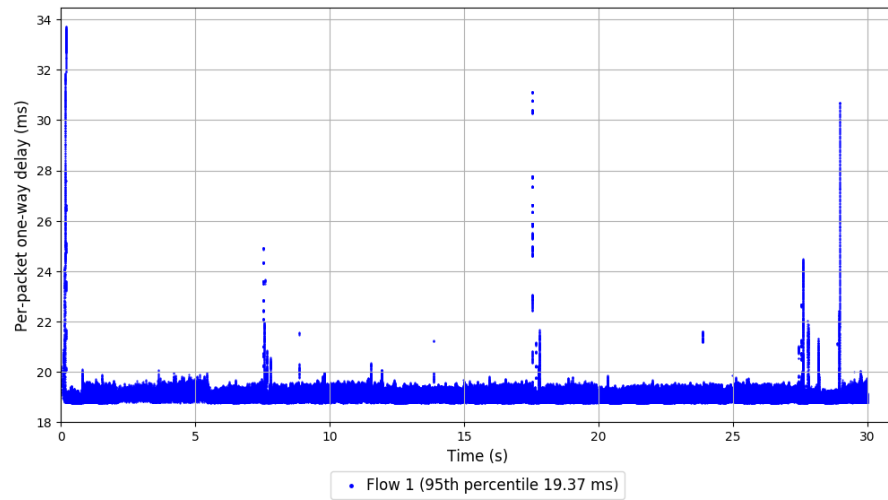
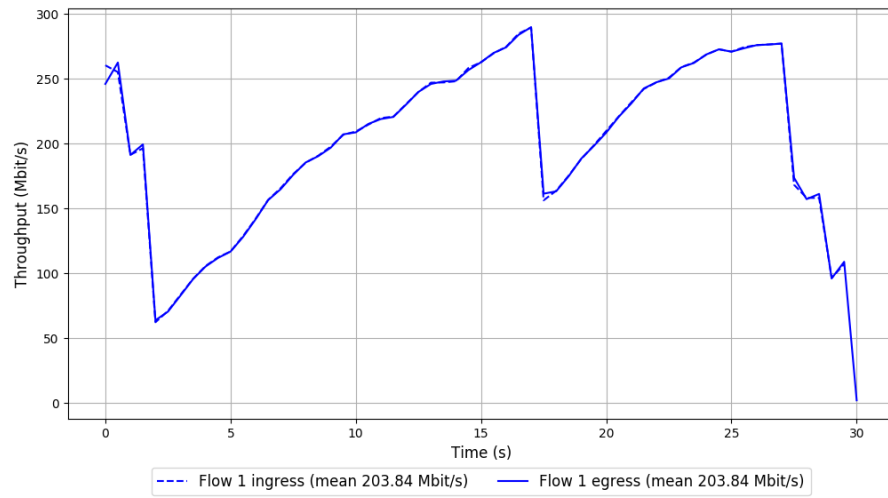
-- Flow 1:

Average throughput: 203.84 Mbit/s

95th percentile per-packet one-way delay: 19.370 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

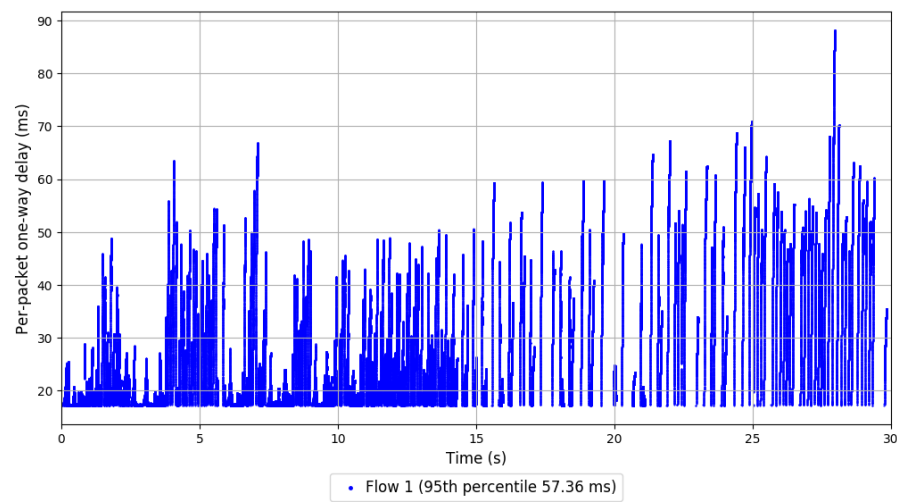
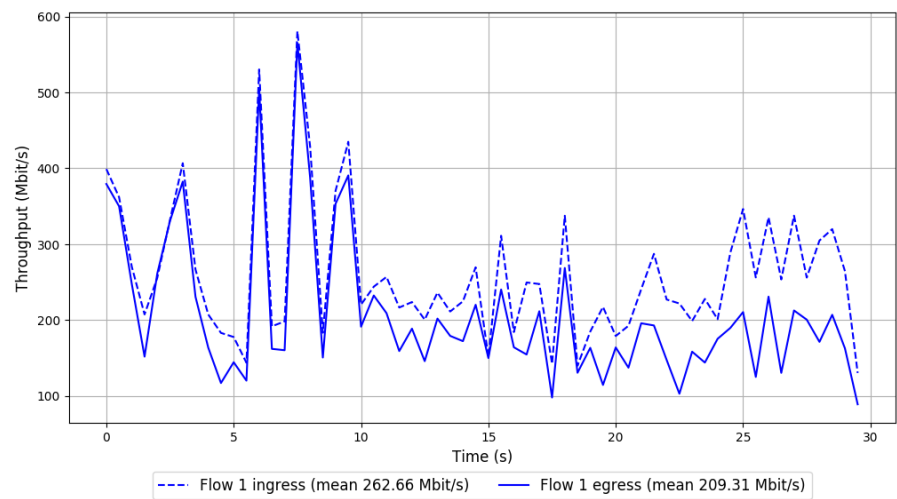


Run 1: Statistics of Verus

Start at: 2017-11-21 02:41:06
End at: 2017-11-21 02:41:36
Local clock offset: 1.942 ms
Remote clock offset: -0.827 ms

Below is generated by plot.py at 2017-11-21 08:00:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 209.31 Mbit/s
95th percentile per-packet one-way delay: 57.358 ms
Loss rate: 20.27%
-- Flow 1:
Average throughput: 209.31 Mbit/s
95th percentile per-packet one-way delay: 57.358 ms
Loss rate: 20.27%

Run 1: Report of Verus — Data Link

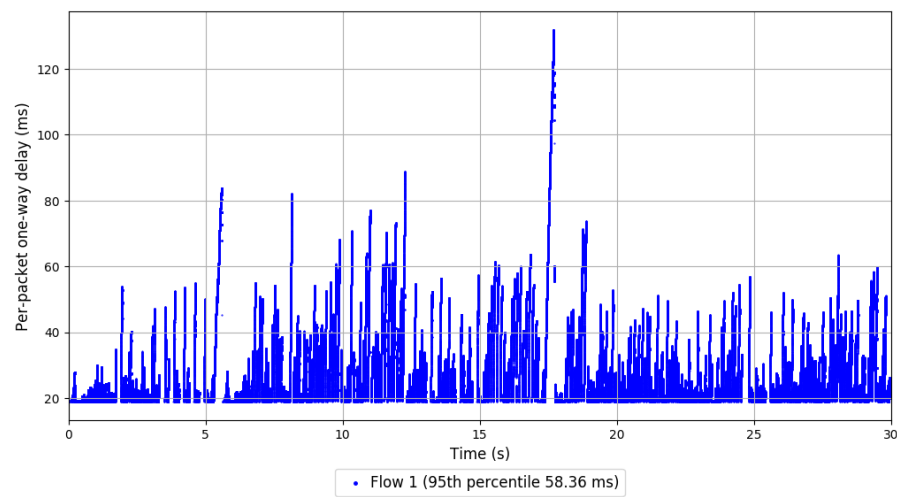
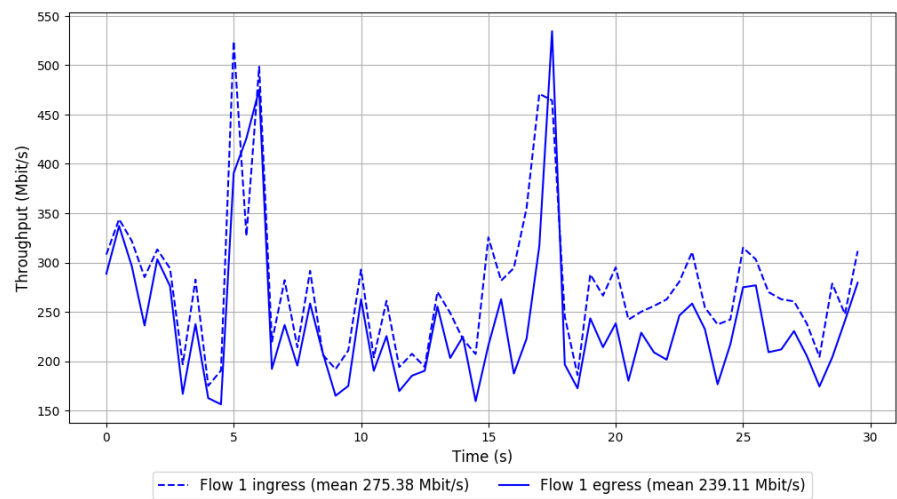


Run 2: Statistics of Verus

Start at: 2017-11-21 02:59:45
End at: 2017-11-21 03:00:15
Local clock offset: 1.892 ms
Remote clock offset: -1.013 ms

Below is generated by plot.py at 2017-11-21 08:01:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.11 Mbit/s
95th percentile per-packet one-way delay: 58.359 ms
Loss rate: 13.15%
-- Flow 1:
Average throughput: 239.11 Mbit/s
95th percentile per-packet one-way delay: 58.359 ms
Loss rate: 13.15%

Run 2: Report of Verus — Data Link

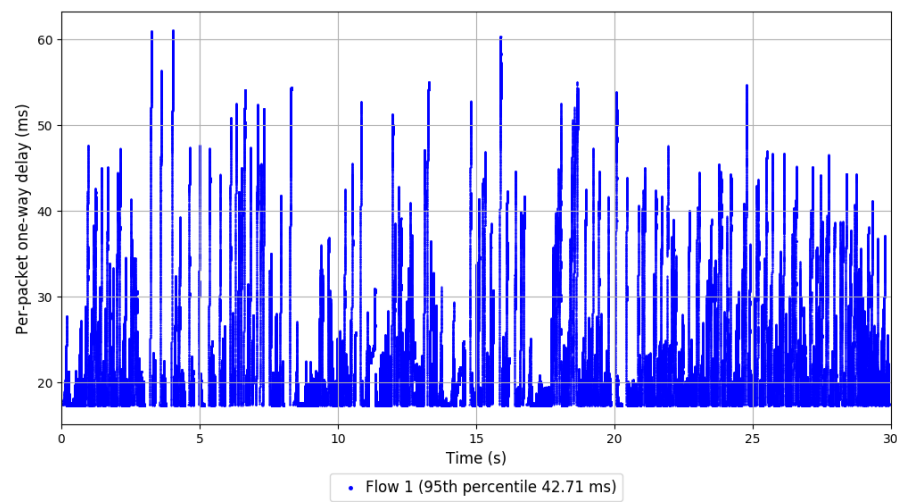
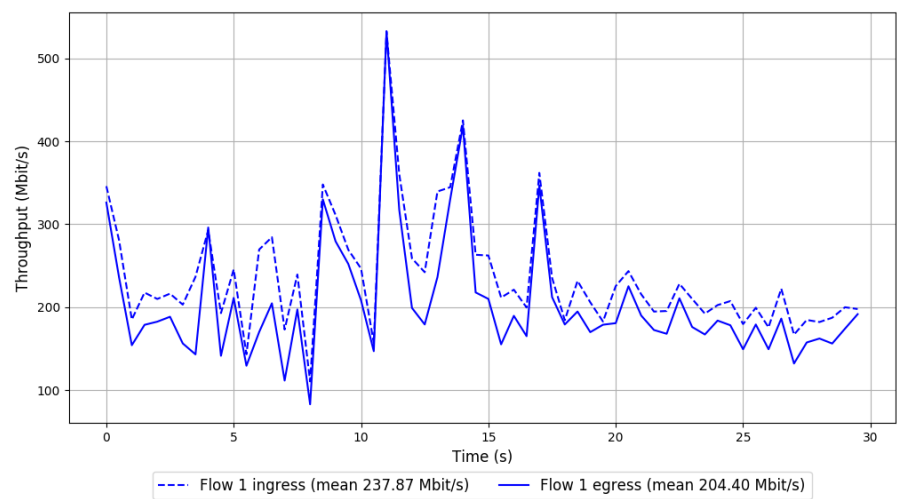


Run 3: Statistics of Verus

Start at: 2017-11-21 03:18:29
End at: 2017-11-21 03:18:59
Local clock offset: 2.237 ms
Remote clock offset: -1.441 ms

Below is generated by plot.py at 2017-11-21 08:01:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.40 Mbit/s
95th percentile per-packet one-way delay: 42.707 ms
Loss rate: 14.07%
-- Flow 1:
Average throughput: 204.40 Mbit/s
95th percentile per-packet one-way delay: 42.707 ms
Loss rate: 14.07%

Run 3: Report of Verus — Data Link

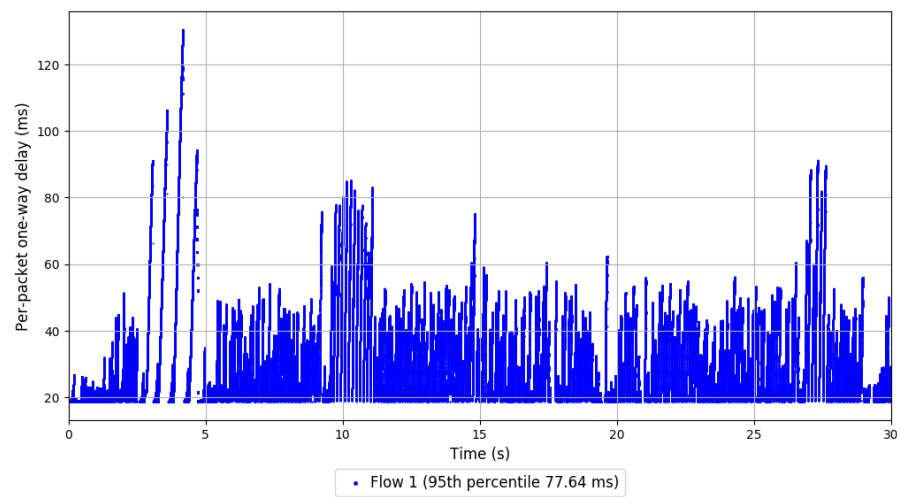
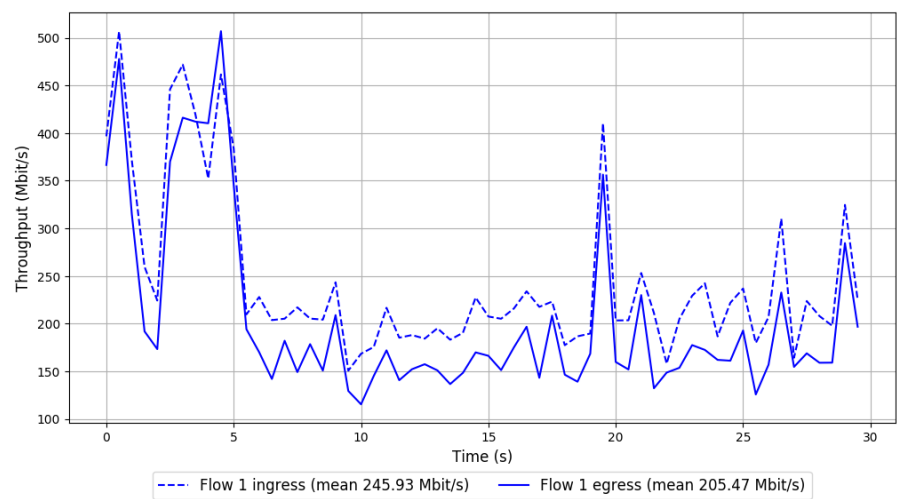


Run 4: Statistics of Verus

Start at: 2017-11-21 03:37:03
End at: 2017-11-21 03:37:33
Local clock offset: 2.325 ms
Remote clock offset: -1.773 ms

Below is generated by plot.py at 2017-11-21 08:01:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.47 Mbit/s
95th percentile per-packet one-way delay: 77.639 ms
Loss rate: 16.45%
-- Flow 1:
Average throughput: 205.47 Mbit/s
95th percentile per-packet one-way delay: 77.639 ms
Loss rate: 16.45%

Run 4: Report of Verus — Data Link

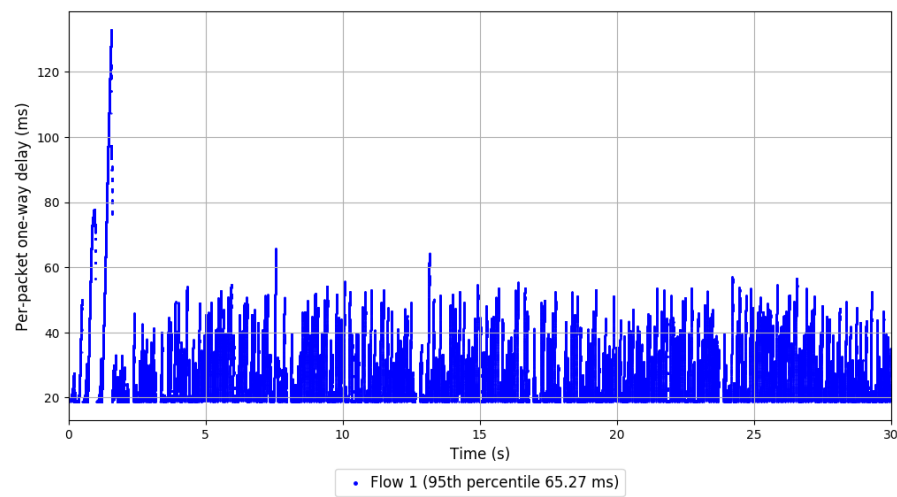
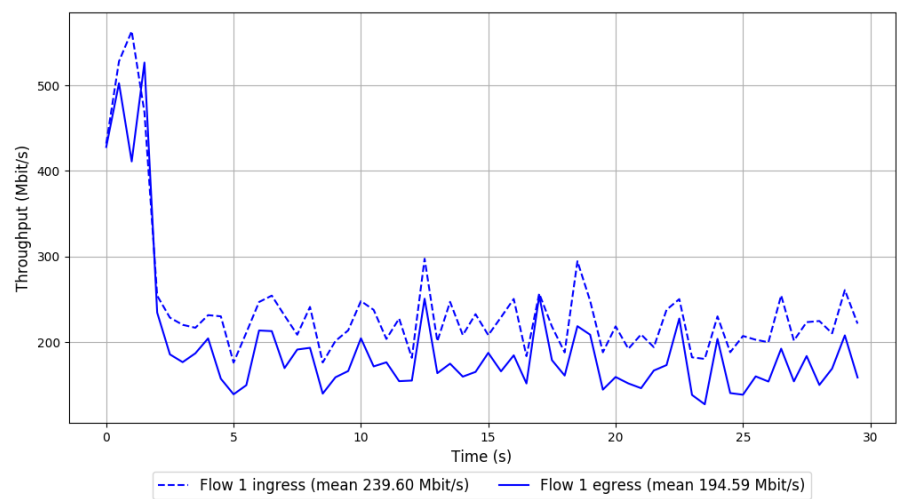


Run 5: Statistics of Verus

Start at: 2017-11-21 03:55:41
End at: 2017-11-21 03:56:11
Local clock offset: 2.263 ms
Remote clock offset: -1.732 ms

Below is generated by plot.py at 2017-11-21 08:01:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.59 Mbit/s
95th percentile per-packet one-way delay: 65.273 ms
Loss rate: 18.78%
-- Flow 1:
Average throughput: 194.59 Mbit/s
95th percentile per-packet one-way delay: 65.273 ms
Loss rate: 18.78%

Run 5: Report of Verus — Data Link

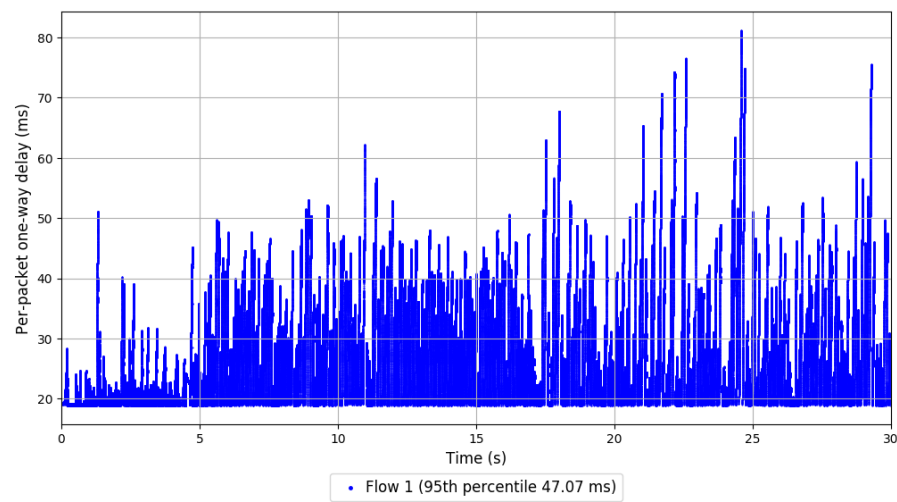
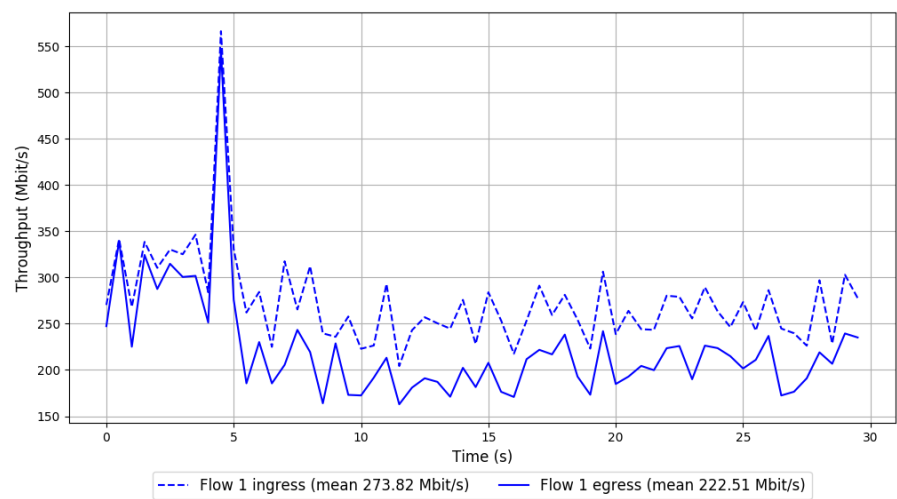


Run 6: Statistics of Verus

Start at: 2017-11-21 04:14:06
End at: 2017-11-21 04:14:36
Local clock offset: 2.337 ms
Remote clock offset: -1.624 ms

Below is generated by plot.py at 2017-11-21 08:02:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.51 Mbit/s
95th percentile per-packet one-way delay: 47.069 ms
Loss rate: 18.72%
-- Flow 1:
Average throughput: 222.51 Mbit/s
95th percentile per-packet one-way delay: 47.069 ms
Loss rate: 18.72%

Run 6: Report of Verus — Data Link

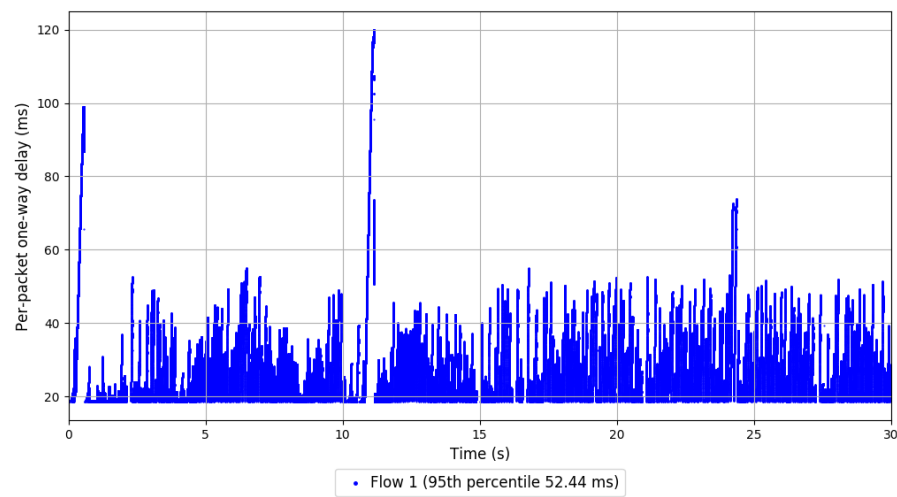
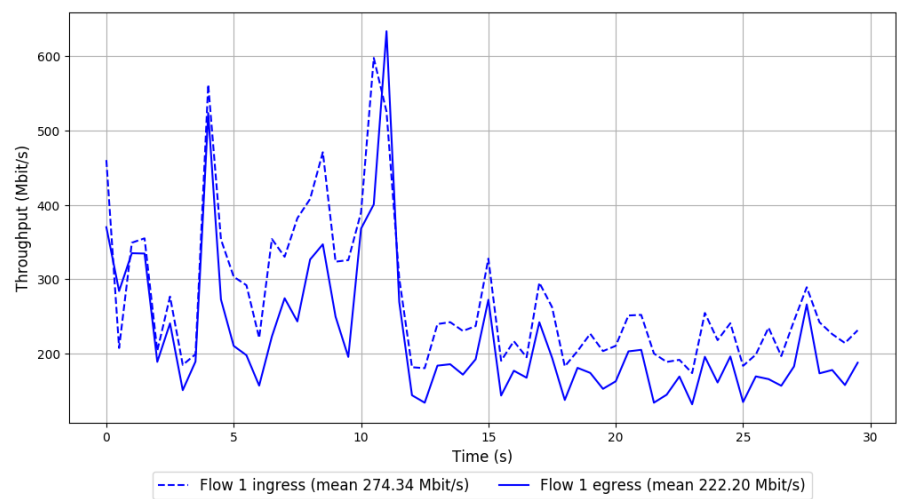


Run 7: Statistics of Verus

Start at: 2017-11-21 04:32:45
End at: 2017-11-21 04:33:15
Local clock offset: 2.408 ms
Remote clock offset: -1.494 ms

Below is generated by plot.py at 2017-11-21 08:03:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.20 Mbit/s
95th percentile per-packet one-way delay: 52.435 ms
Loss rate: 19.00%
-- Flow 1:
Average throughput: 222.20 Mbit/s
95th percentile per-packet one-way delay: 52.435 ms
Loss rate: 19.00%

Run 7: Report of Verus — Data Link

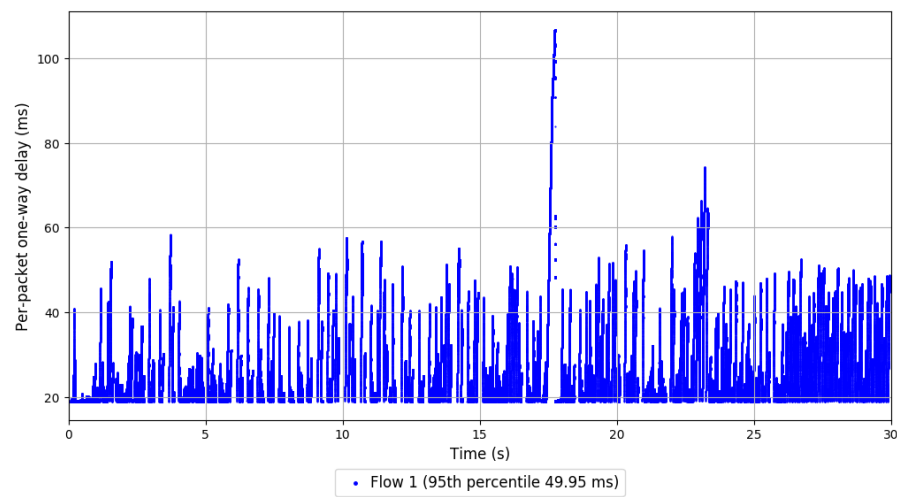
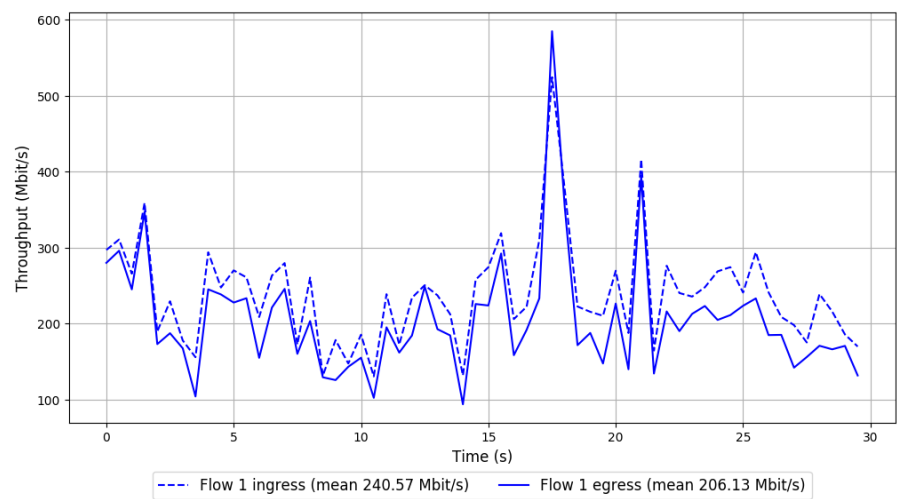


Run 8: Statistics of Verus

Start at: 2017-11-21 04:51:10
End at: 2017-11-21 04:51:40
Local clock offset: 2.59 ms
Remote clock offset: -1.149 ms

Below is generated by plot.py at 2017-11-21 08:03:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 206.13 Mbit/s
95th percentile per-packet one-way delay: 49.954 ms
Loss rate: 14.23%
-- Flow 1:
Average throughput: 206.13 Mbit/s
95th percentile per-packet one-way delay: 49.954 ms
Loss rate: 14.23%

Run 8: Report of Verus — Data Link

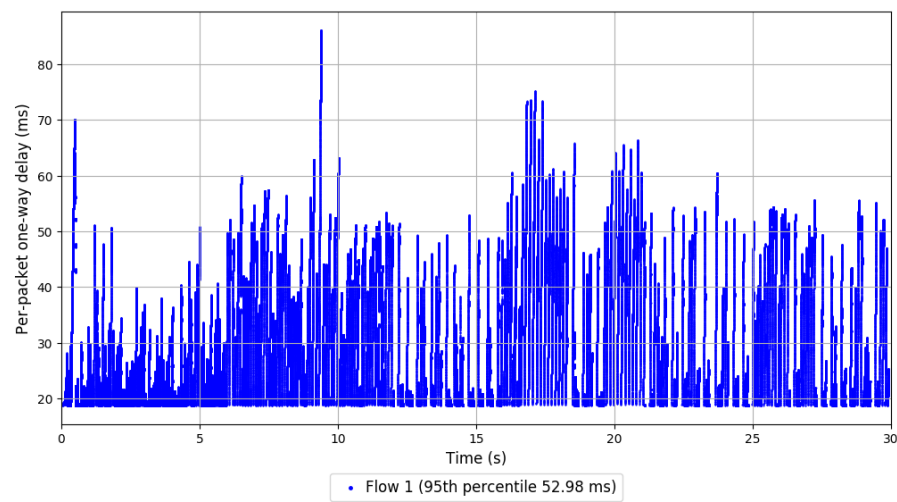
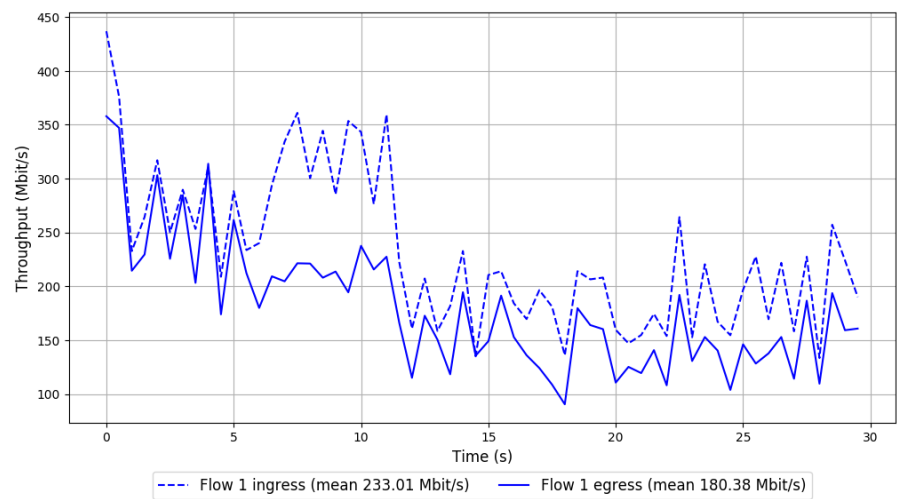


Run 9: Statistics of Verus

Start at: 2017-11-21 05:09:50
End at: 2017-11-21 05:10:20
Local clock offset: 1.73 ms
Remote clock offset: -1.273 ms

Below is generated by plot.py at 2017-11-21 08:03:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.38 Mbit/s
95th percentile per-packet one-way delay: 52.979 ms
Loss rate: 22.58%
-- Flow 1:
Average throughput: 180.38 Mbit/s
95th percentile per-packet one-way delay: 52.979 ms
Loss rate: 22.58%

Run 9: Report of Verus — Data Link

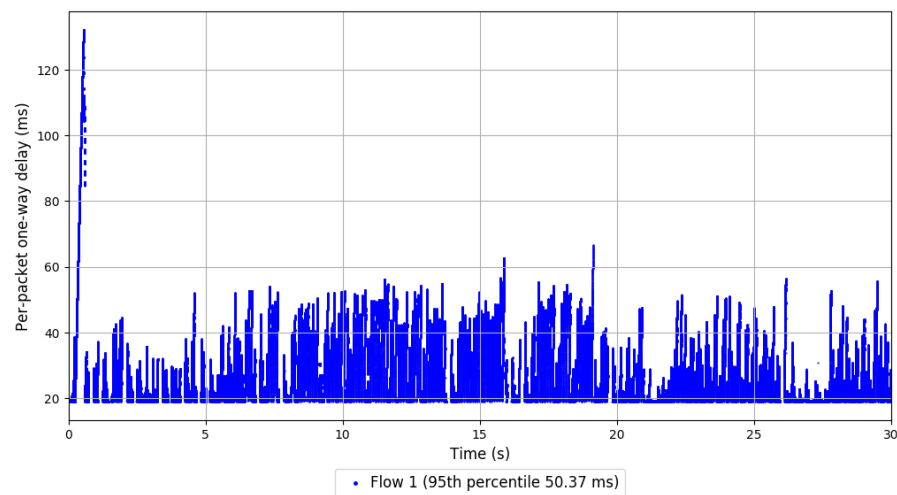
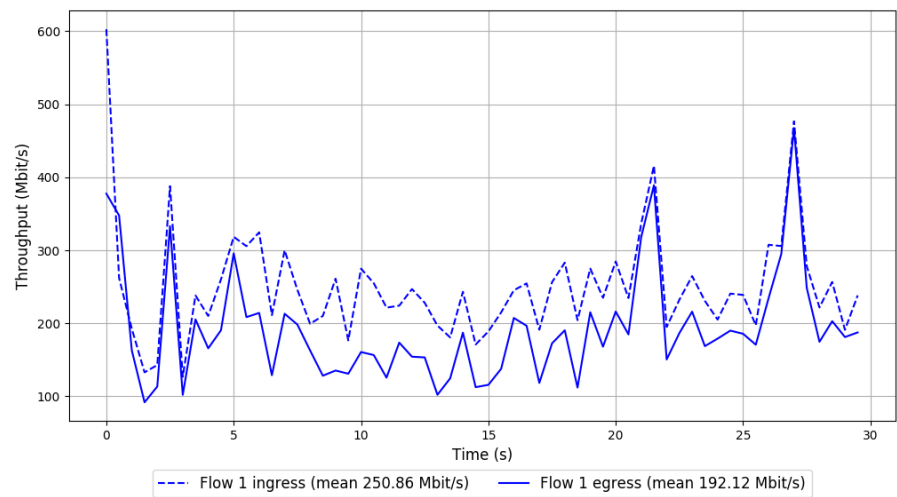


Run 10: Statistics of Verus

Start at: 2017-11-21 05:28:18
End at: 2017-11-21 05:28:48
Local clock offset: 1.207 ms
Remote clock offset: -1.565 ms

Below is generated by plot.py at 2017-11-21 08:04:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 192.12 Mbit/s
95th percentile per-packet one-way delay: 50.367 ms
Loss rate: 23.41%
-- Flow 1:
Average throughput: 192.12 Mbit/s
95th percentile per-packet one-way delay: 50.367 ms
Loss rate: 23.41%

Run 10: Report of Verus — Data Link

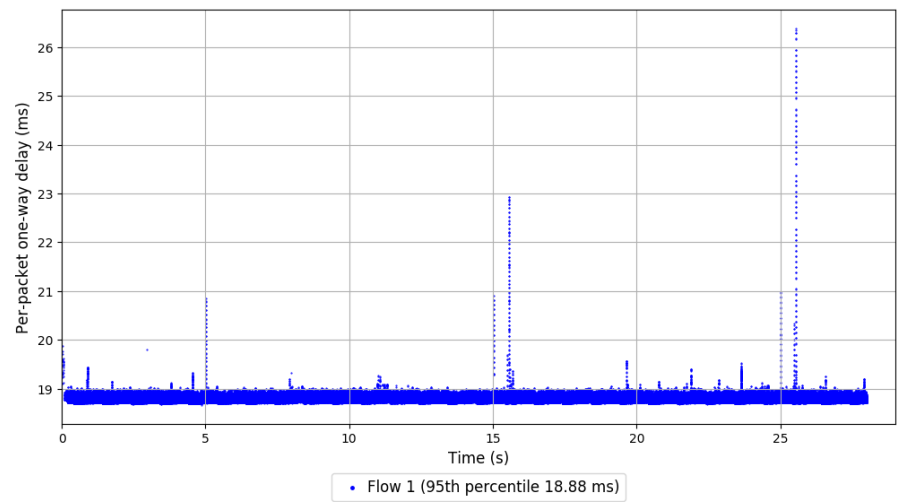
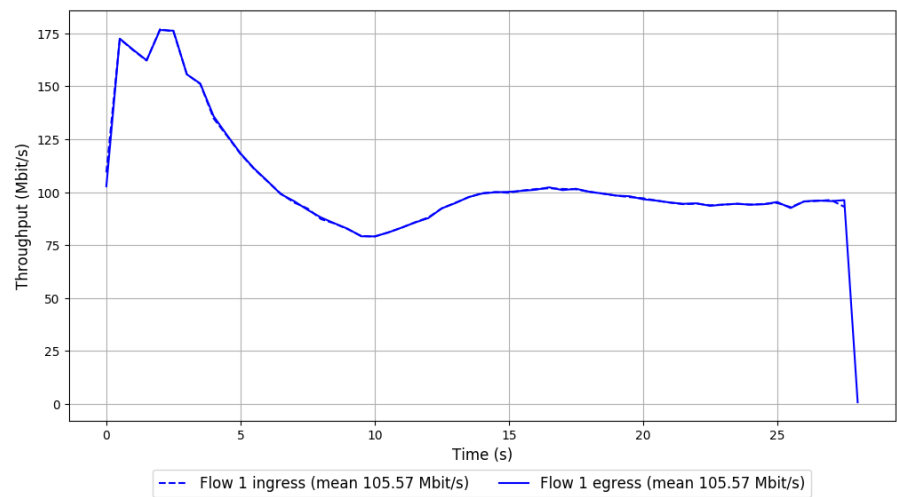


Run 1: Statistics of Copa

Start at: 2017-11-21 02:49:09
End at: 2017-11-21 02:49:39
Local clock offset: 1.853 ms
Remote clock offset: -0.776 ms

Below is generated by plot.py at 2017-11-21 08:04:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.57 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.57 Mbit/s
95th percentile per-packet one-way delay: 18.881 ms
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

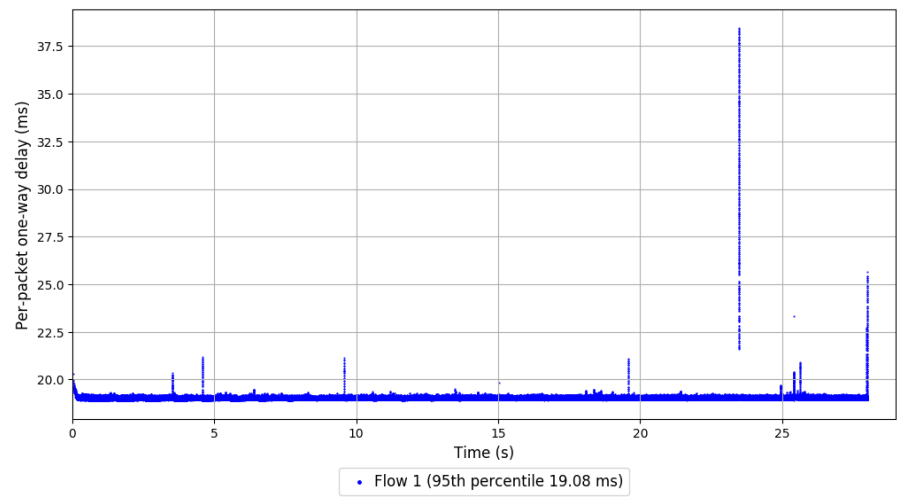
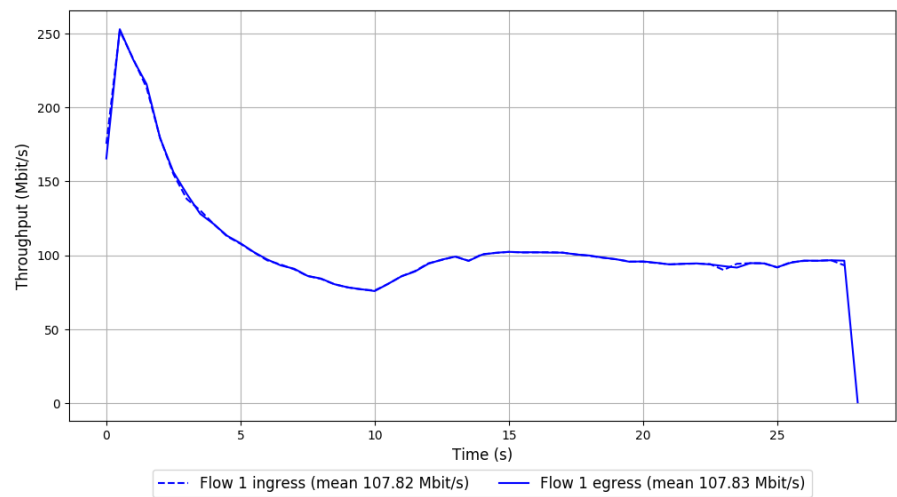


Run 2: Statistics of Copa

Start at: 2017-11-21 03:07:46
End at: 2017-11-21 03:08:16
Local clock offset: 2.035 ms
Remote clock offset: -1.275 ms

Below is generated by plot.py at 2017-11-21 08:04:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 107.83 Mbit/s
95th percentile per-packet one-way delay: 19.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.83 Mbit/s
95th percentile per-packet one-way delay: 19.078 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

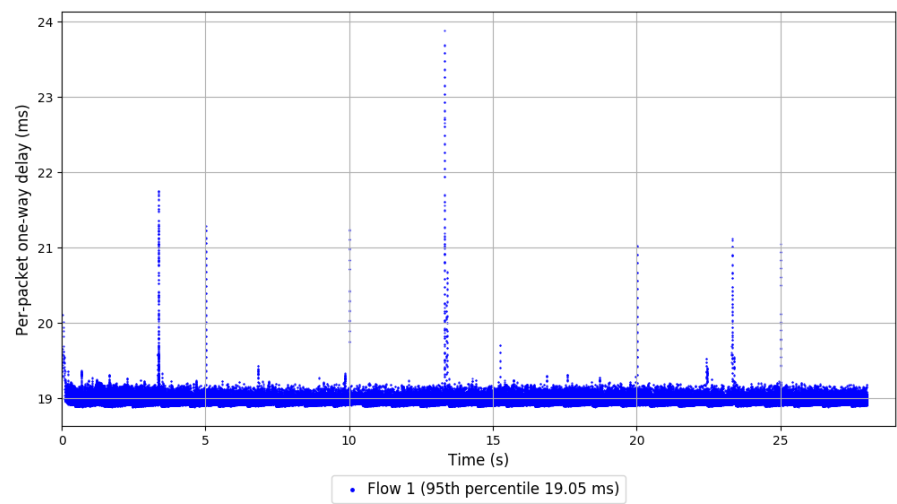
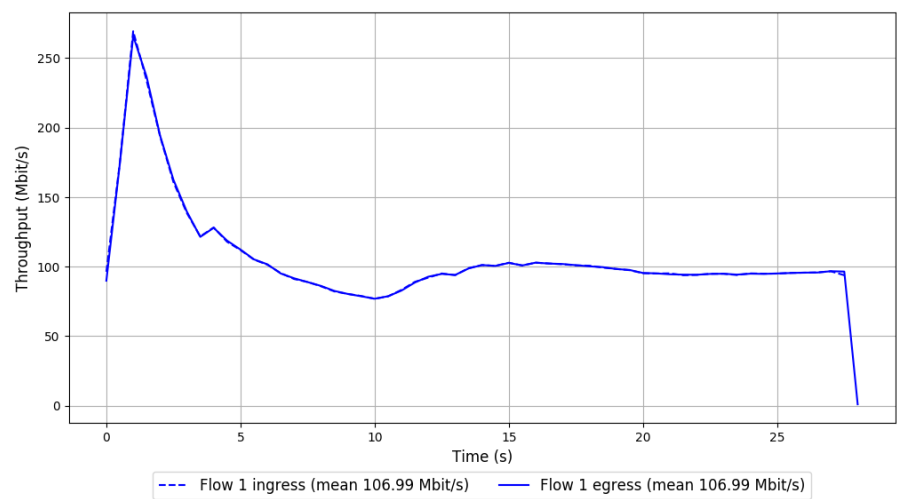


Run 3: Statistics of Copa

Start at: 2017-11-21 03:26:16
End at: 2017-11-21 03:26:47
Local clock offset: 2.345 ms
Remote clock offset: -1.625 ms

Below is generated by plot.py at 2017-11-21 08:04:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 106.99 Mbit/s
95th percentile per-packet one-way delay: 19.046 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.99 Mbit/s
95th percentile per-packet one-way delay: 19.046 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

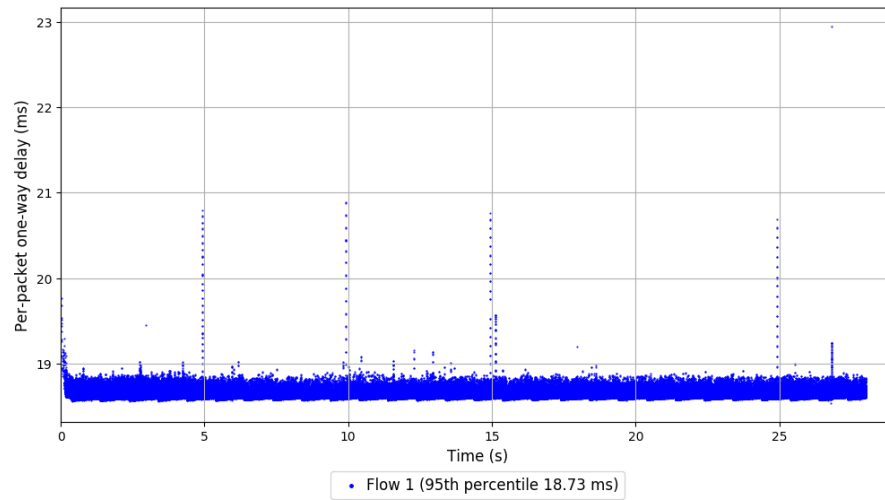
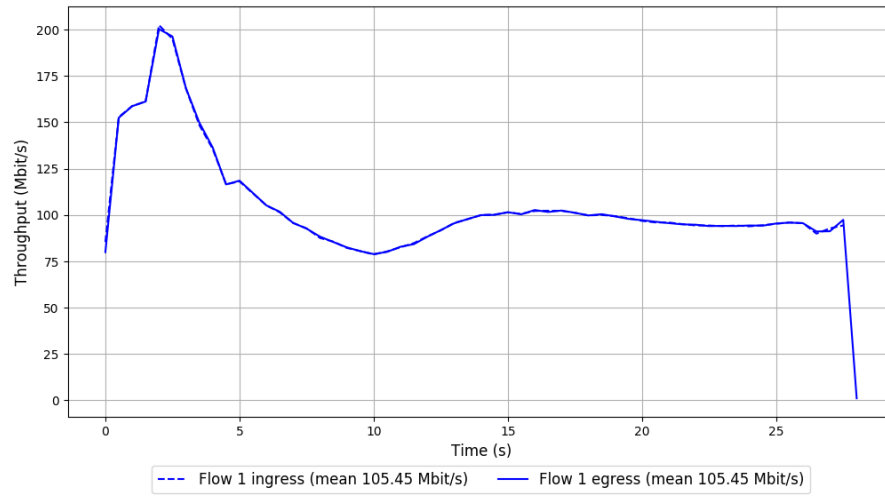


Run 4: Statistics of Copa

Start at: 2017-11-21 03:44:57
End at: 2017-11-21 03:45:27
Local clock offset: 2.303 ms
Remote clock offset: -1.992 ms

Below is generated by plot.py at 2017-11-21 08:04:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.45 Mbit/s
95th percentile per-packet one-way delay: 18.729 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.45 Mbit/s
95th percentile per-packet one-way delay: 18.729 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

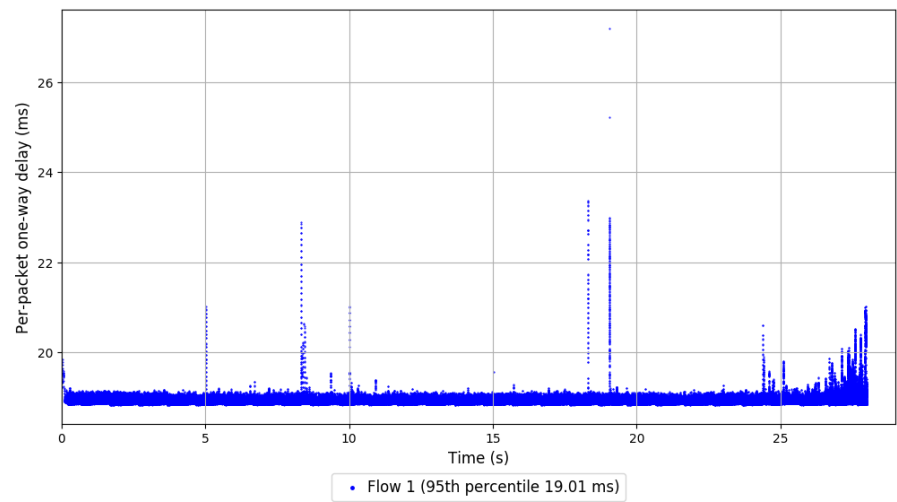
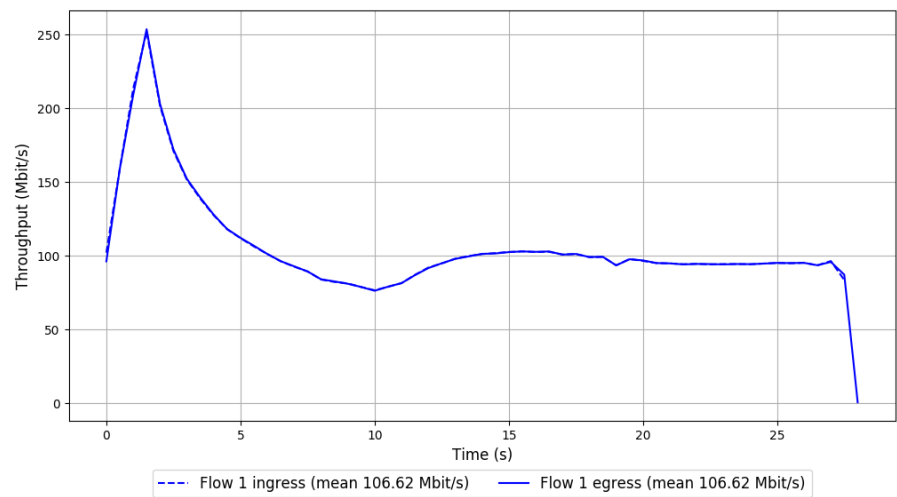


Run 5: Statistics of Copa

Start at: 2017-11-21 04:03:26
End at: 2017-11-21 04:03:57
Local clock offset: 2.275 ms
Remote clock offset: -1.707 ms

Below is generated by plot.py at 2017-11-21 08:06:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 106.62 Mbit/s
95th percentile per-packet one-way delay: 19.009 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 106.62 Mbit/s
95th percentile per-packet one-way delay: 19.009 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

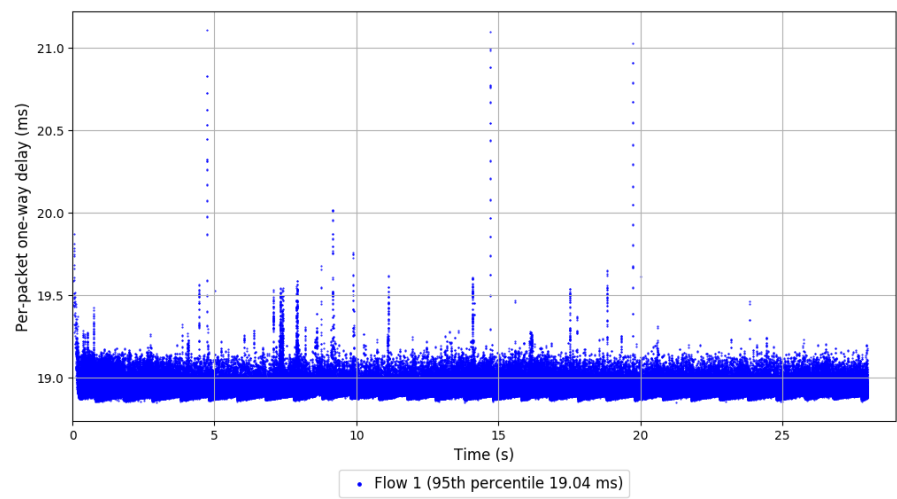
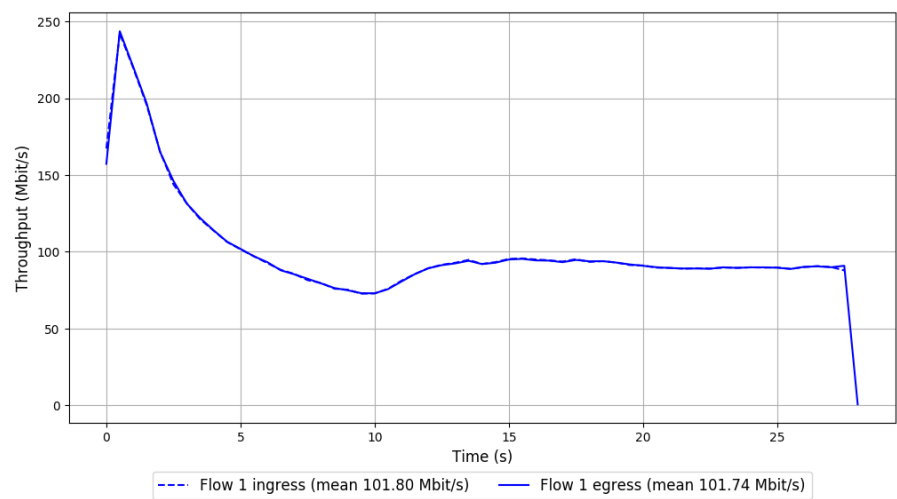


Run 6: Statistics of Copa

Start at: 2017-11-21 04:21:59
End at: 2017-11-21 04:22:30
Local clock offset: 2.291 ms
Remote clock offset: -1.678 ms

Below is generated by plot.py at 2017-11-21 08:06:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.74 Mbit/s
95th percentile per-packet one-way delay: 19.036 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 101.74 Mbit/s
95th percentile per-packet one-way delay: 19.036 ms
Loss rate: 0.06%

Run 6: Report of Copa — Data Link

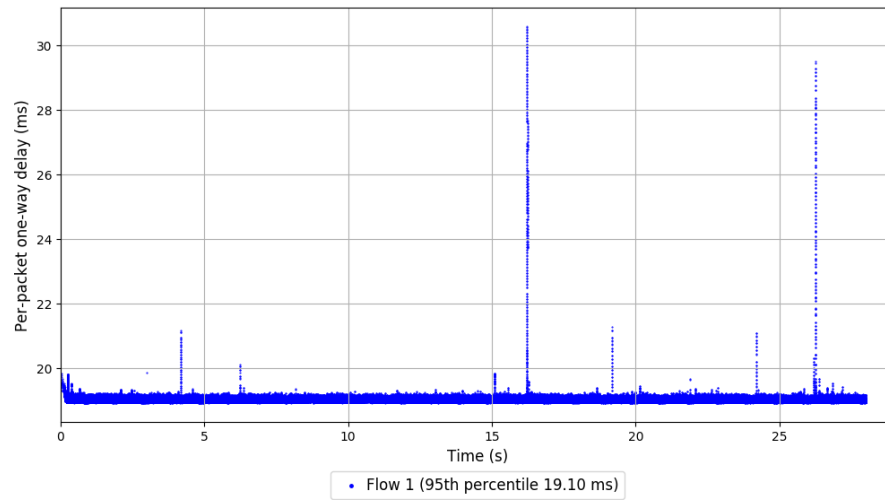
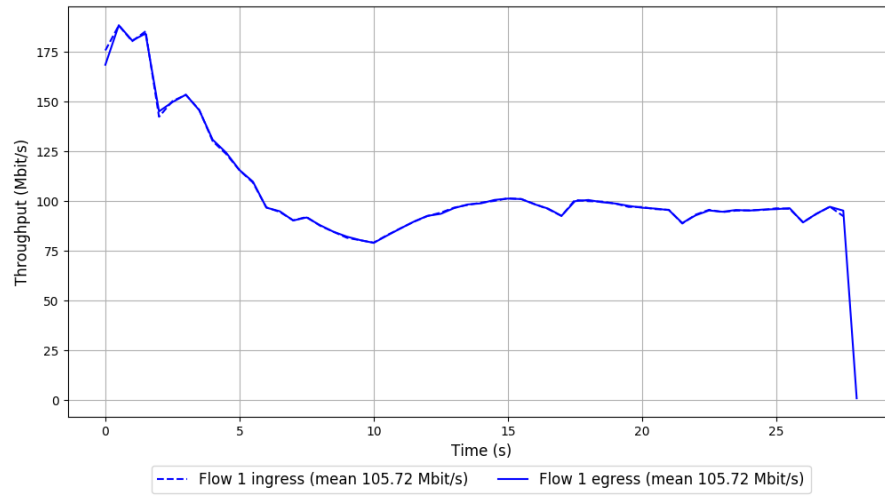


Run 7: Statistics of Copa

Start at: 2017-11-21 04:40:44
End at: 2017-11-21 04:41:14
Local clock offset: 2.408 ms
Remote clock offset: -1.375 ms

Below is generated by plot.py at 2017-11-21 08:06:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.72 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.72 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

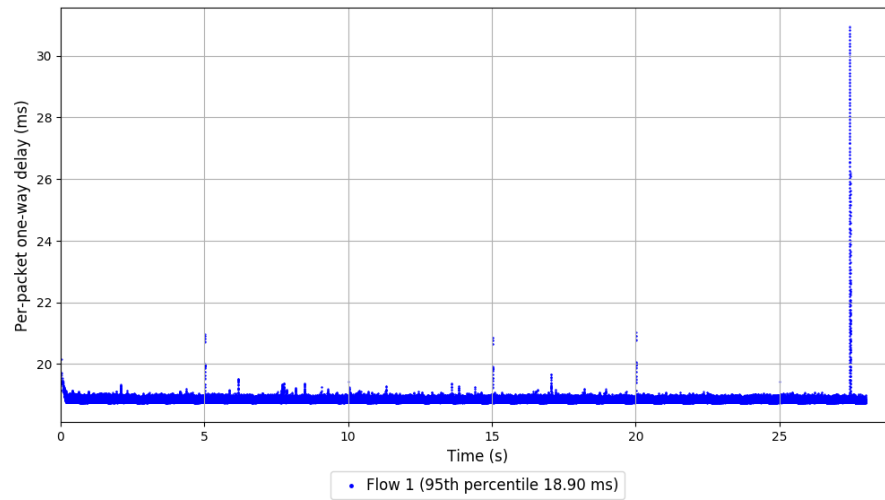
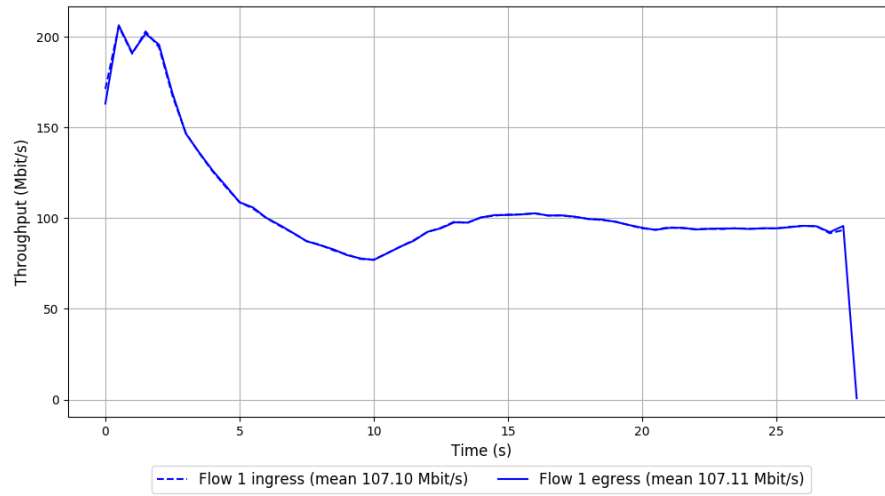


Run 8: Statistics of Copa

Start at: 2017-11-21 04:59:05
End at: 2017-11-21 04:59:35
Local clock offset: 2.283 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2017-11-21 08:06:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 107.11 Mbit/s
95th percentile per-packet one-way delay: 18.903 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.11 Mbit/s
95th percentile per-packet one-way delay: 18.903 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

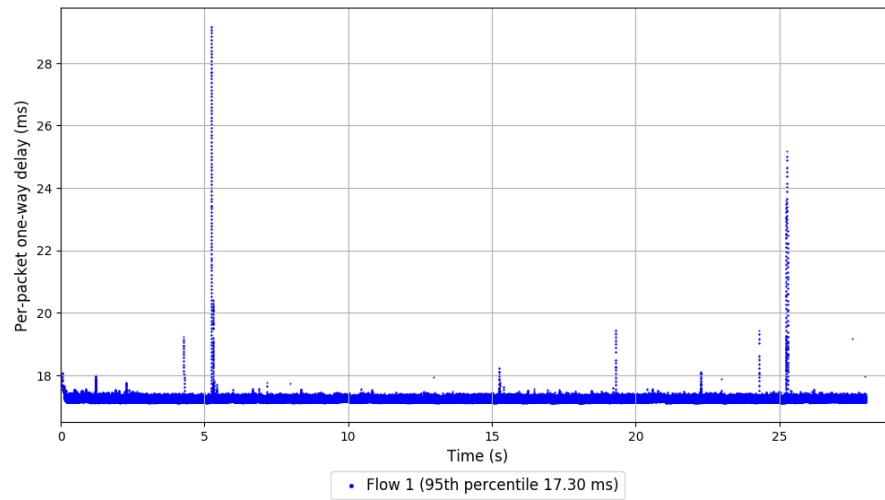
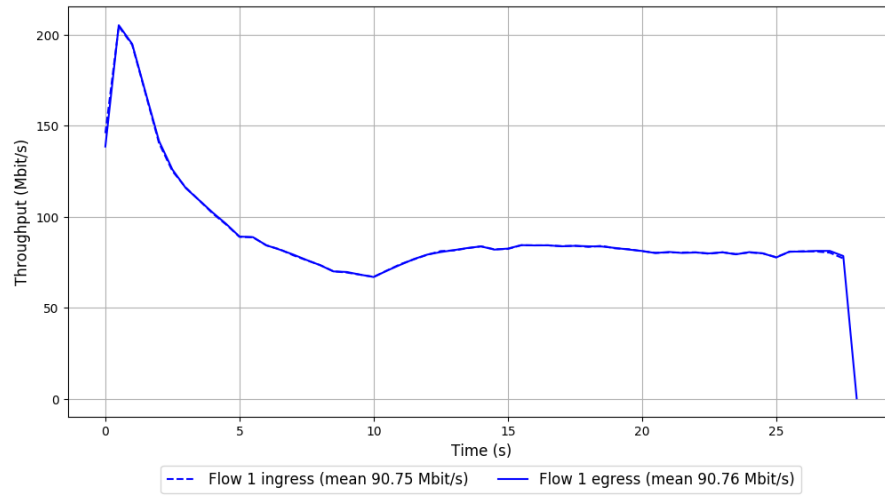


Run 9: Statistics of Copa

Start at: 2017-11-21 05:17:40
End at: 2017-11-21 05:18:10
Local clock offset: 1.552 ms
Remote clock offset: -1.386 ms

Below is generated by plot.py at 2017-11-21 08:06:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 17.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.76 Mbit/s
95th percentile per-packet one-way delay: 17.301 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

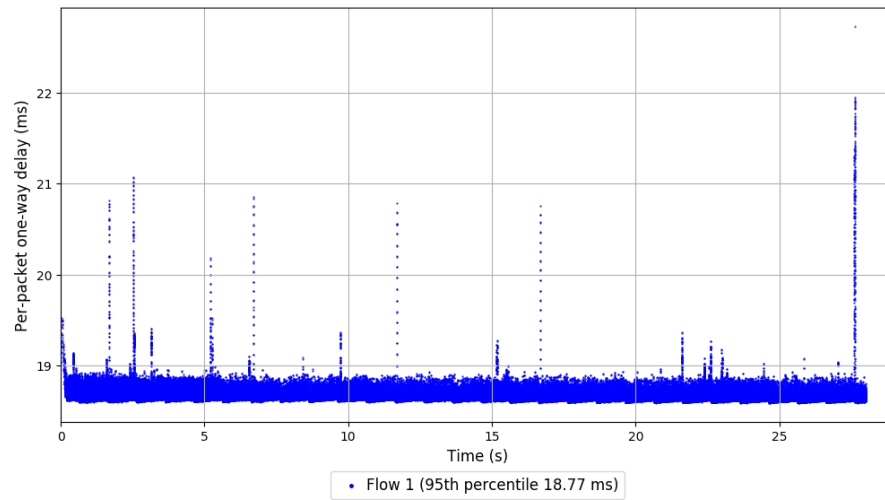
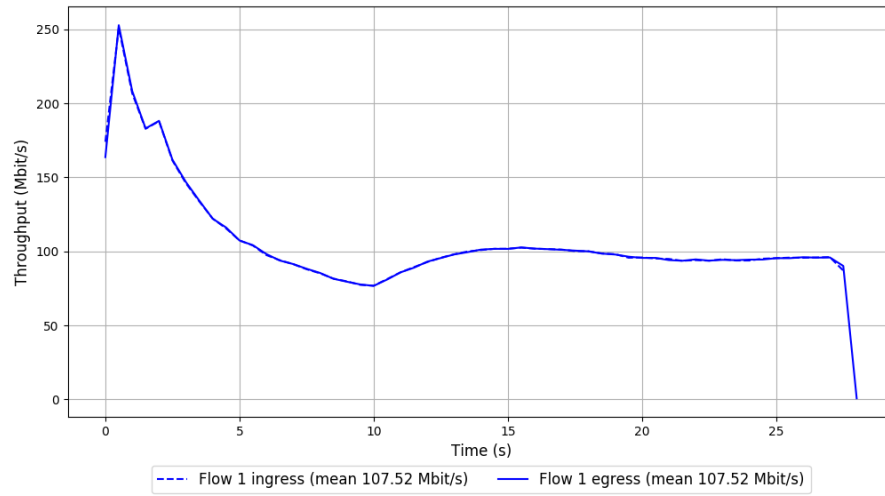


Run 10: Statistics of Copa

Start at: 2017-11-21 05:36:12
End at: 2017-11-21 05:36:42
Local clock offset: 1.209 ms
Remote clock offset: -1.474 ms

Below is generated by plot.py at 2017-11-21 08:06:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 107.52 Mbit/s
95th percentile per-packet one-way delay: 18.767 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.52 Mbit/s
95th percentile per-packet one-way delay: 18.767 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

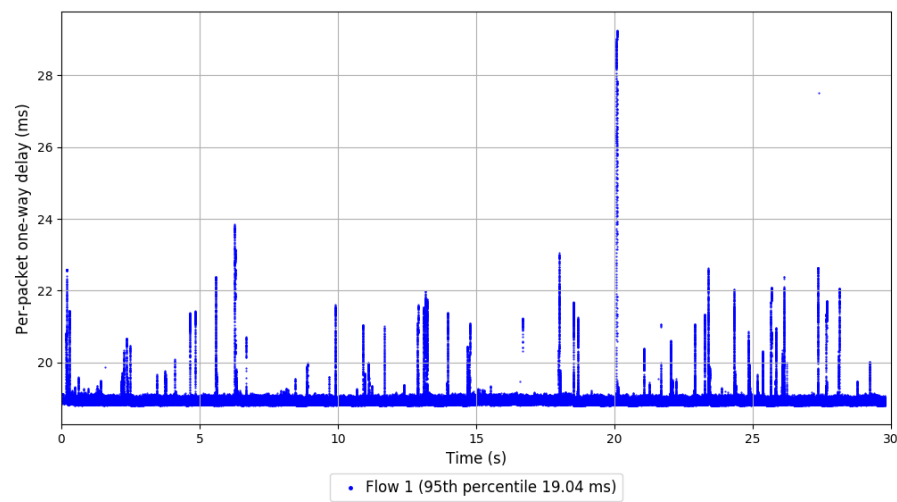
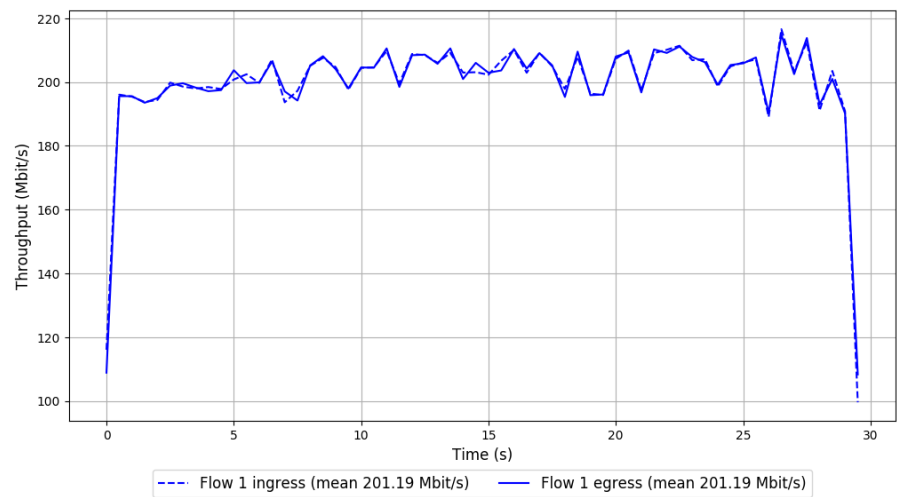


```
Run 1: Statistics of Indigo

Start at: 2017-11-21 02:53:08
End at: 2017-11-21 02:53:38
Local clock offset: 1.917 ms
Remote clock offset: -0.812 ms

# Below is generated by plot.py at 2017-11-21 08:07:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 201.19 Mbit/s
95th percentile per-packet one-way delay: 19.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.19 Mbit/s
95th percentile per-packet one-way delay: 19.037 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

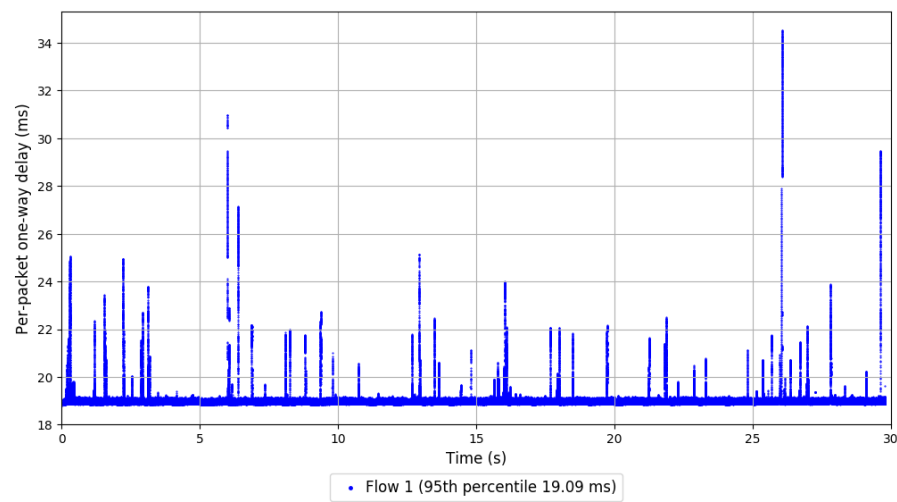
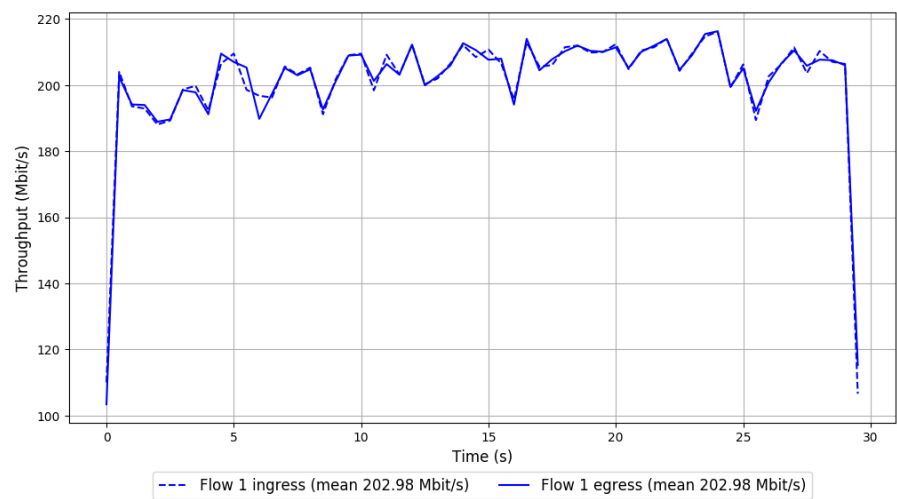


Run 2: Statistics of Indigo

Start at: 2017-11-21 03:11:51
End at: 2017-11-21 03:12:21
Local clock offset: 2.195 ms
Remote clock offset: -1.375 ms

Below is generated by plot.py at 2017-11-21 08:07:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.98 Mbit/s
95th percentile per-packet one-way delay: 19.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.98 Mbit/s
95th percentile per-packet one-way delay: 19.087 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

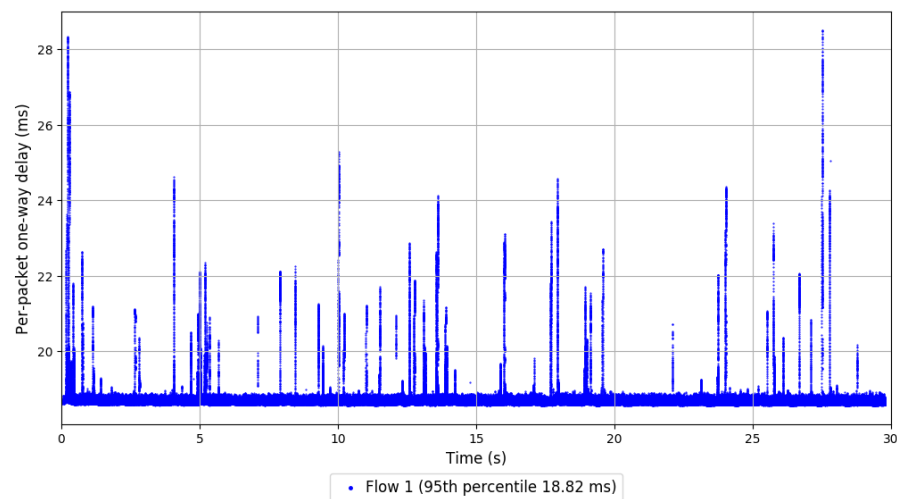
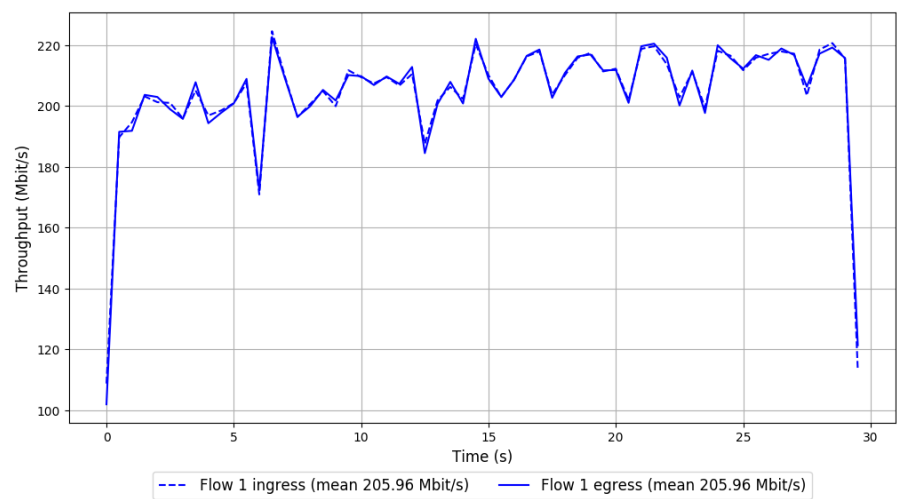


Run 3: Statistics of Indigo

Start at: 2017-11-21 03:30:20
End at: 2017-11-21 03:30:50
Local clock offset: 2.389 ms
Remote clock offset: -1.595 ms

Below is generated by plot.py at 2017-11-21 08:09:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.96 Mbit/s
95th percentile per-packet one-way delay: 18.817 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.96 Mbit/s
95th percentile per-packet one-way delay: 18.817 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

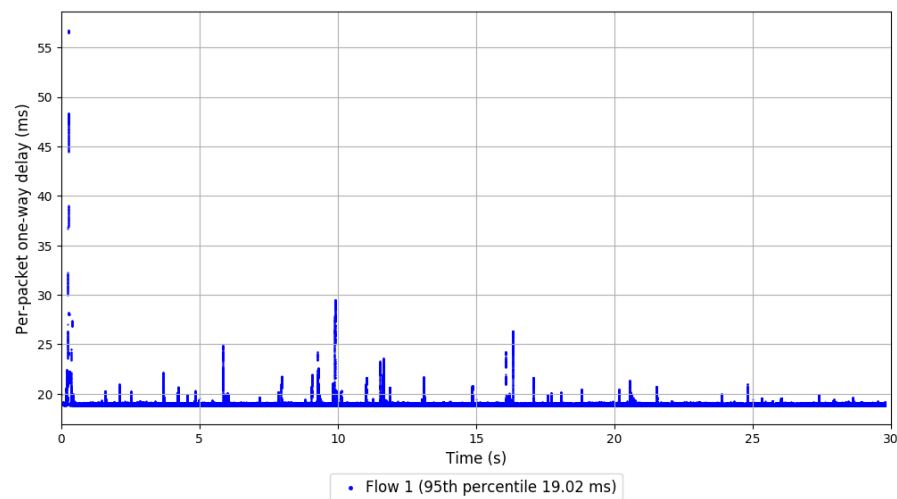
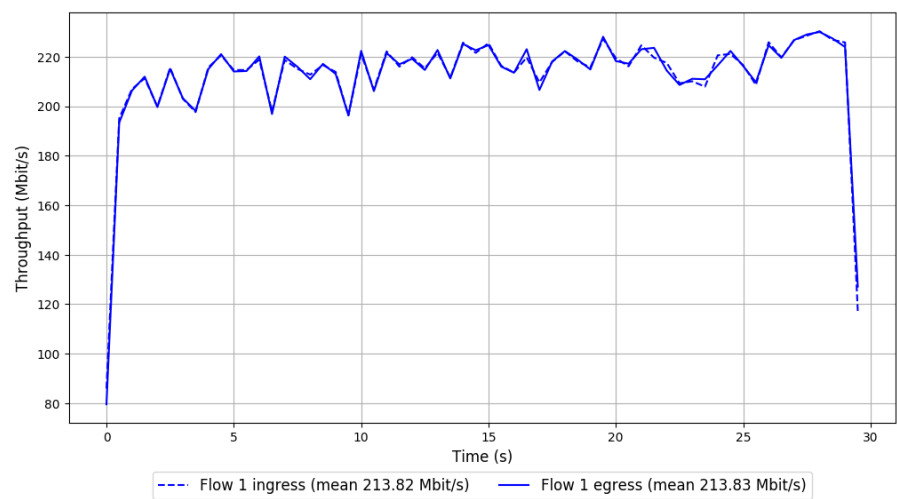


Run 4: Statistics of Indigo

Start at: 2017-11-21 03:49:01
End at: 2017-11-21 03:49:31
Local clock offset: 2.268 ms
Remote clock offset: -1.918 ms

Below is generated by plot.py at 2017-11-21 08:09:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 213.83 Mbit/s
95th percentile per-packet one-way delay: 19.023 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.83 Mbit/s
95th percentile per-packet one-way delay: 19.023 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-11-21 04:07:27

End at: 2017-11-21 04:07:57

Local clock offset: 2.208 ms

Remote clock offset: -1.63 ms

Below is generated by plot.py at 2017-11-21 08:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.22 Mbit/s

95th percentile per-packet one-way delay: 18.938 ms

Loss rate: 0.00%

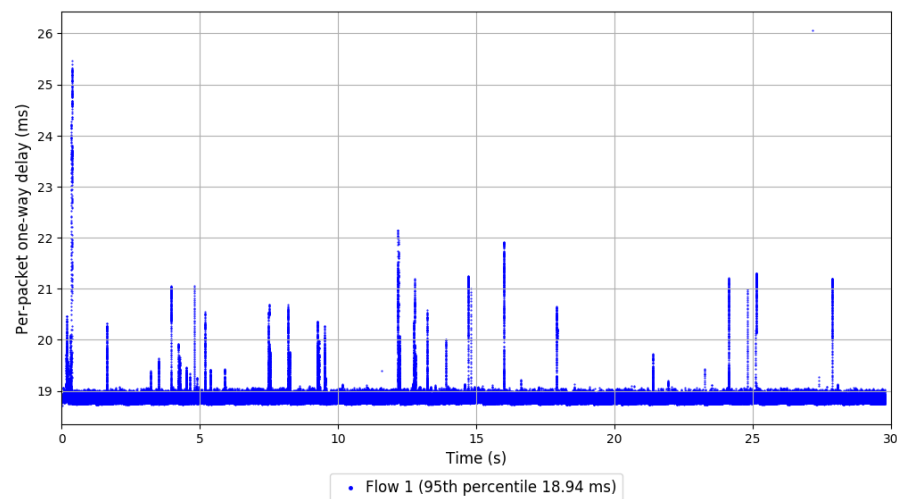
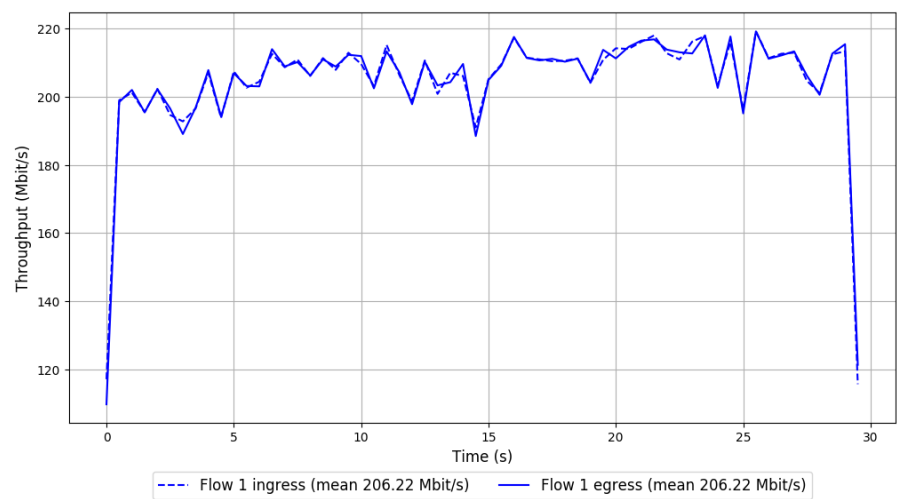
-- Flow 1:

Average throughput: 206.22 Mbit/s

95th percentile per-packet one-way delay: 18.938 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-11-21 04:26:05

End at: 2017-11-21 04:26:35

Local clock offset: 2.284 ms

Remote clock offset: -1.559 ms

Below is generated by plot.py at 2017-11-21 08:09:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.91 Mbit/s

95th percentile per-packet one-way delay: 18.985 ms

Loss rate: 0.00%

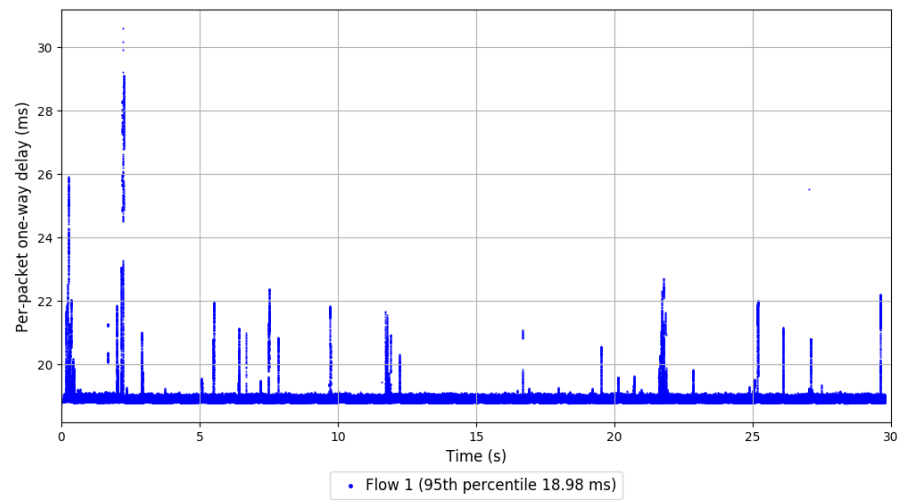
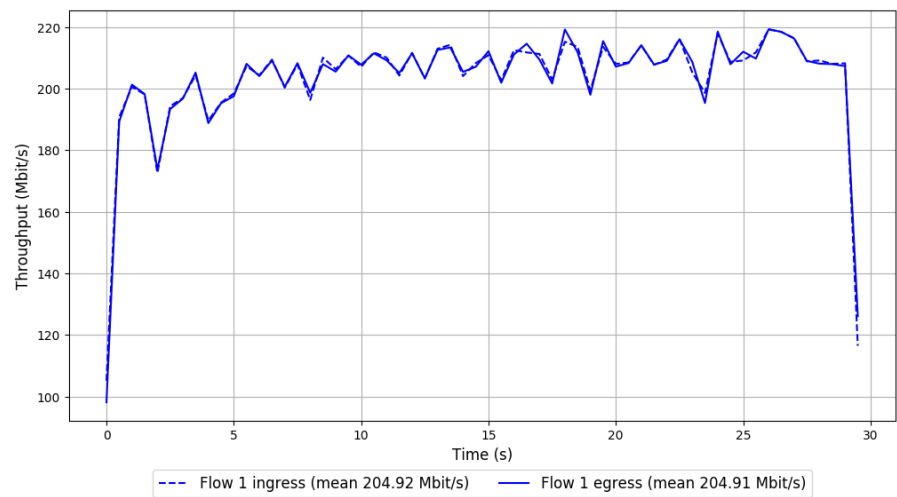
-- Flow 1:

Average throughput: 204.91 Mbit/s

95th percentile per-packet one-way delay: 18.985 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

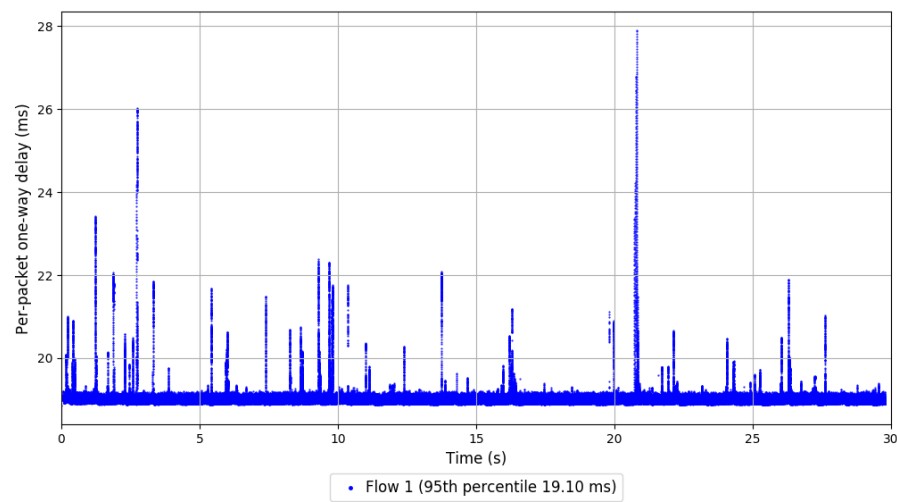
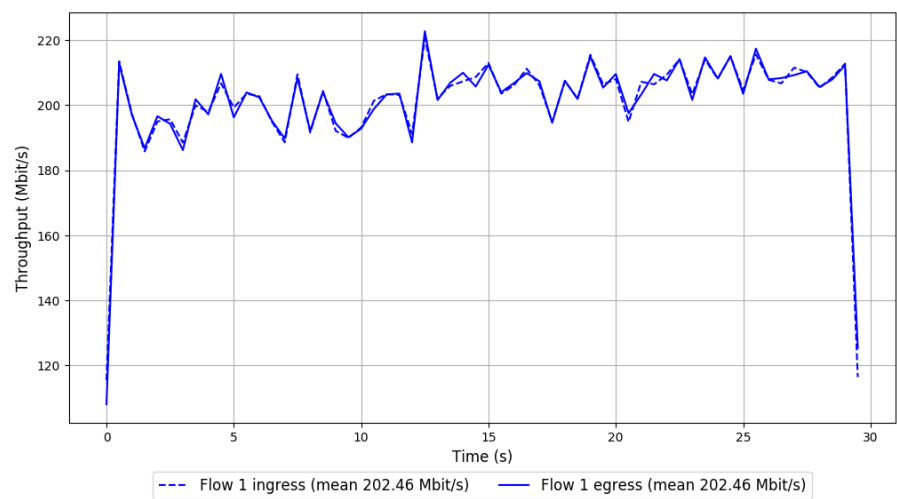


Run 7: Statistics of Indigo

Start at: 2017-11-21 04:44:36
End at: 2017-11-21 04:45:06
Local clock offset: 2.428 ms
Remote clock offset: -1.362 ms

Below is generated by plot.py at 2017-11-21 08:09:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.46 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.46 Mbit/s
95th percentile per-packet one-way delay: 19.097 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-21 05:03:10

End at: 2017-11-21 05:03:40

Local clock offset: 2.081 ms

Remote clock offset: -1.24 ms

Below is generated by plot.py at 2017-11-21 08:09:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.24 Mbit/s

95th percentile per-packet one-way delay: 18.767 ms

Loss rate: 0.00%

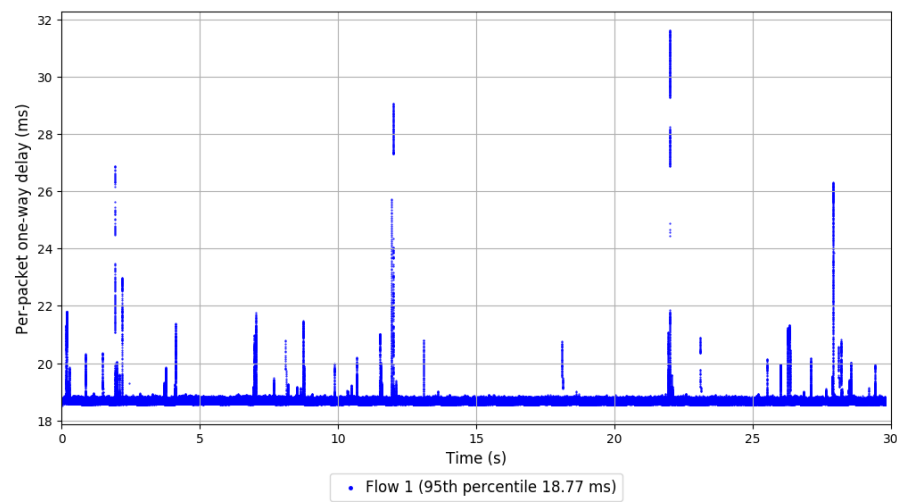
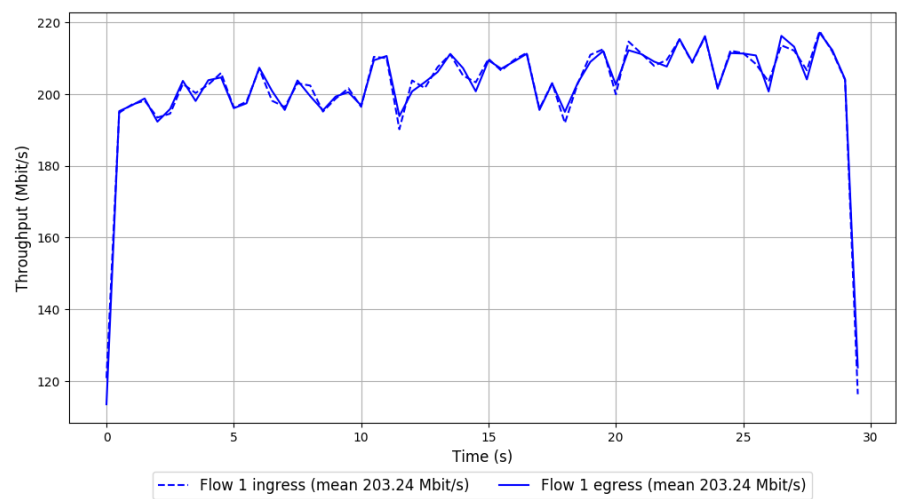
-- Flow 1:

Average throughput: 203.24 Mbit/s

95th percentile per-packet one-way delay: 18.767 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

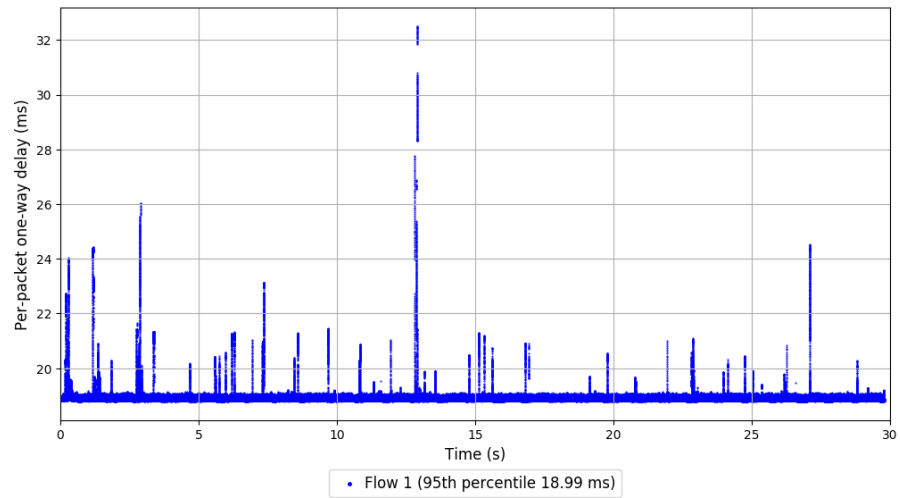
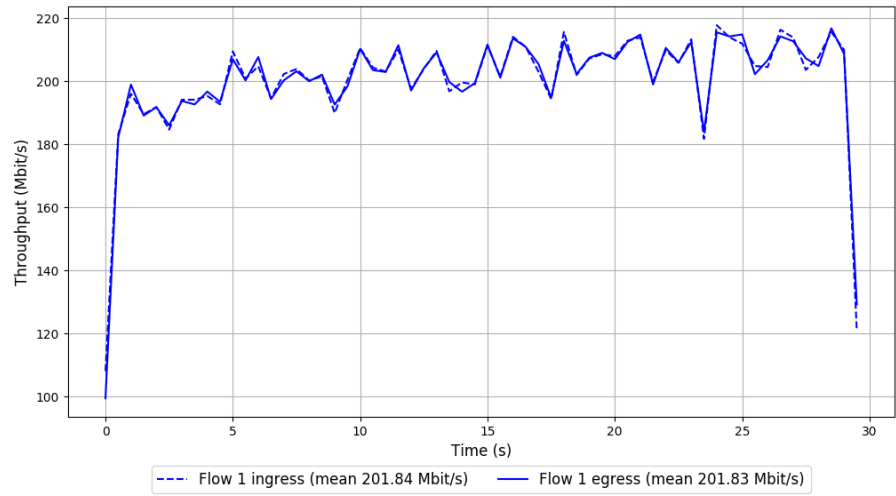


Run 9: Statistics of Indigo

Start at: 2017-11-21 05:21:39
End at: 2017-11-21 05:22:09
Local clock offset: 1.411 ms
Remote clock offset: -1.474 ms

Below is generated by plot.py at 2017-11-21 08:10:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.83 Mbit/s
95th percentile per-packet one-way delay: 18.994 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.83 Mbit/s
95th percentile per-packet one-way delay: 18.994 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-21 05:40:16

End at: 2017-11-21 05:40:46

Local clock offset: 1.067 ms

Remote clock offset: -1.373 ms

Below is generated by plot.py at 2017-11-21 08:10:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.25 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.07%

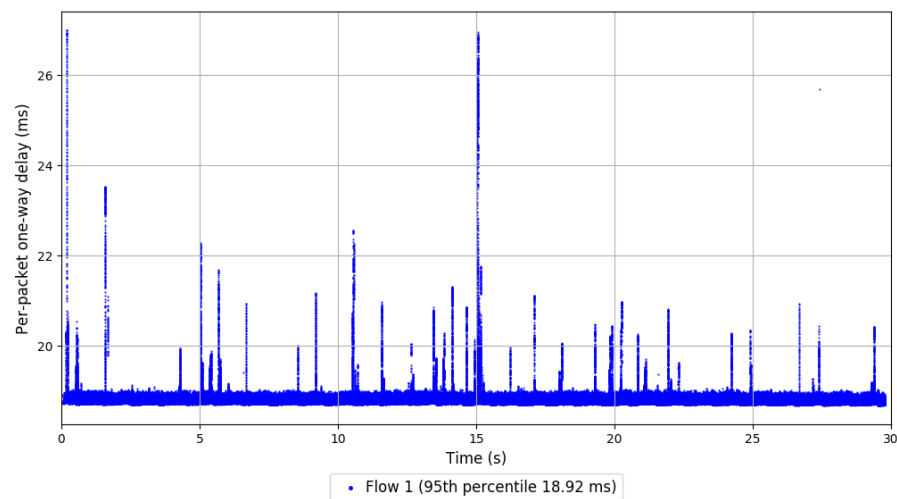
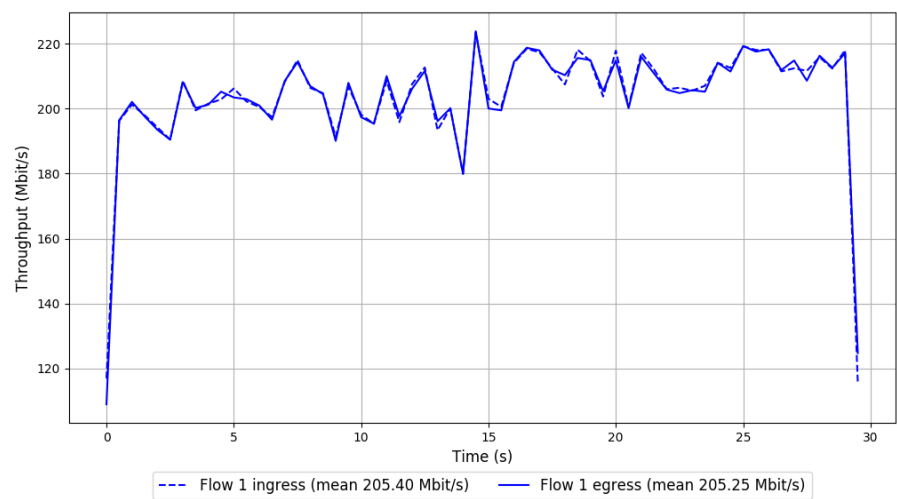
-- Flow 1:

Average throughput: 205.25 Mbit/s

95th percentile per-packet one-way delay: 18.916 ms

Loss rate: 0.07%

Run 10: Report of Indigo — Data Link

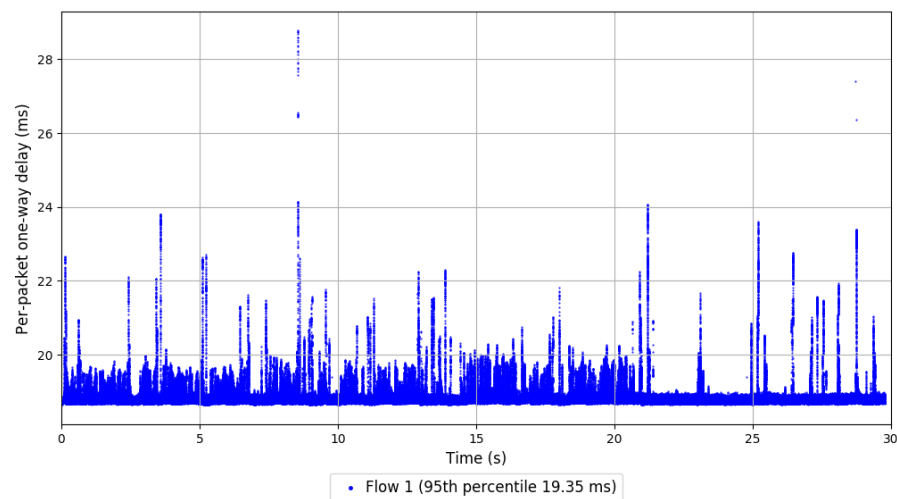
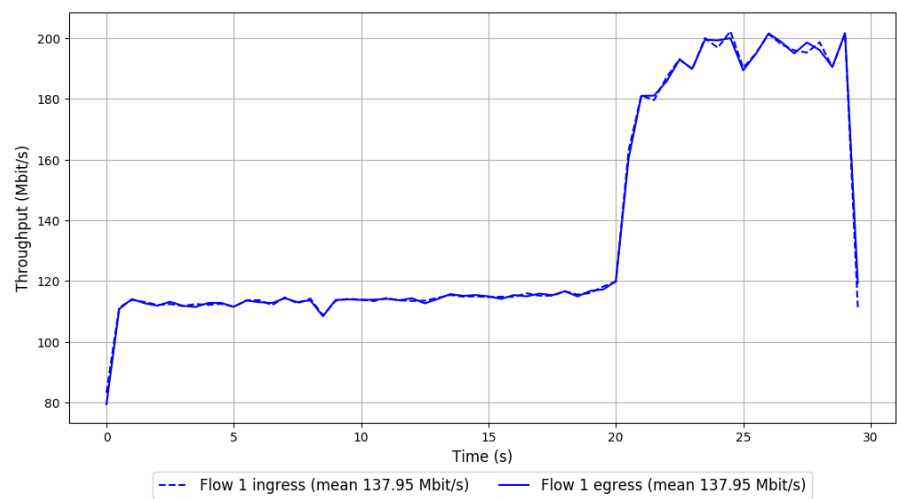


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-21 02:54:29
End at: 2017-11-21 02:54:59
Local clock offset: 1.924 ms
Remote clock offset: -0.753 ms

# Below is generated by plot.py at 2017-11-21 08:11:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 137.95 Mbit/s
95th percentile per-packet one-way delay: 19.352 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.95 Mbit/s
95th percentile per-packet one-way delay: 19.352 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-calib — Data Link



Run 2: Statistics of Indigo-calib

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

End at: 2017-11-21 03:13:41

Local clock offset: 2.156 ms

Remote clock offset: -1.33 ms

Below is generated by plot.py at 2017-11-21 08:11:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 121.54 Mbit/s

95th percentile per-packet one-way delay: 19.459 ms

Loss rate: 0.00%

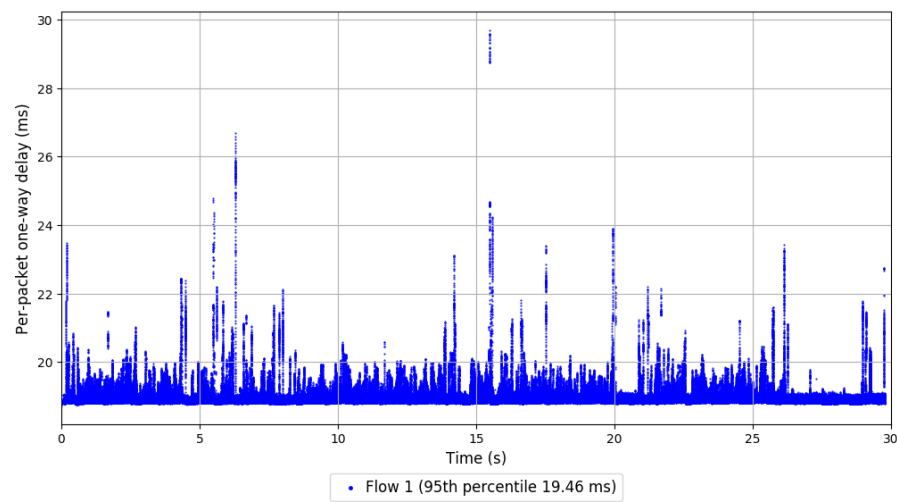
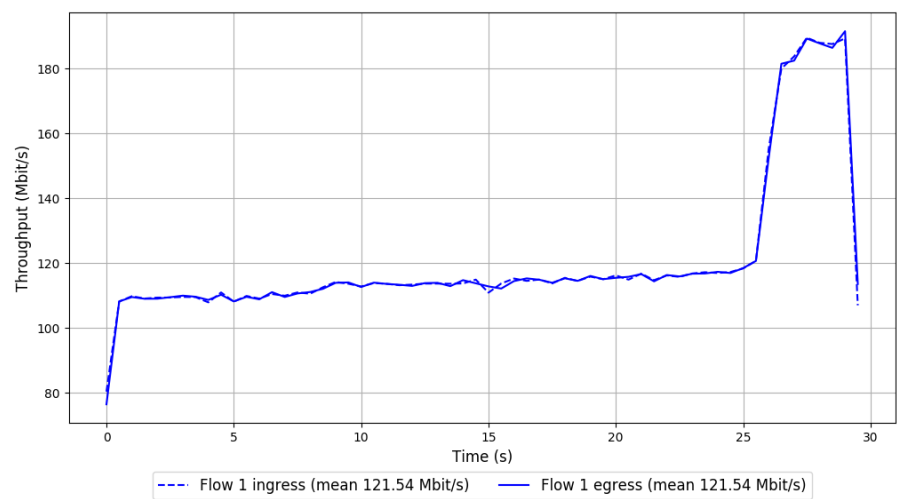
-- Flow 1:

Average throughput: 121.54 Mbit/s

95th percentile per-packet one-way delay: 19.459 ms

Loss rate: 0.00%

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-11-21 03:31:41

End at: 2017-11-21 03:32:11

Local clock offset: 2.294 ms

Remote clock offset: -1.51 ms

Below is generated by plot.py at 2017-11-21 08:11:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 19.641 ms

Loss rate: 0.00%

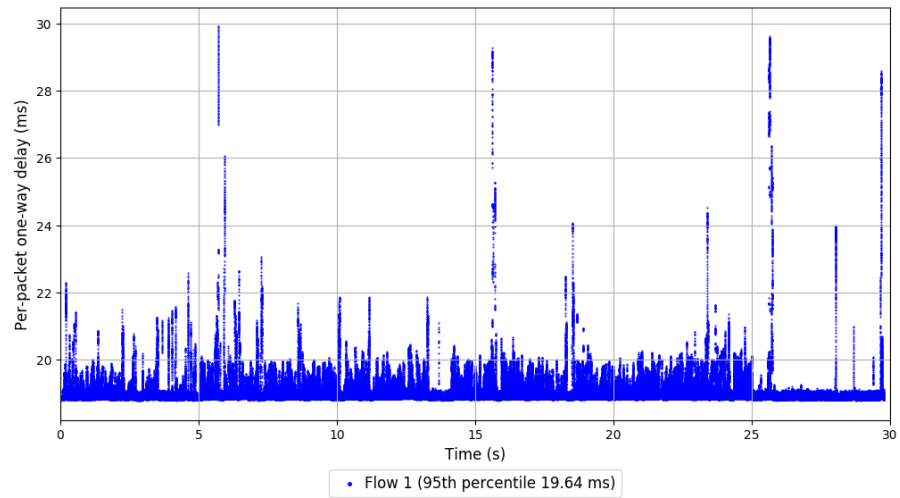
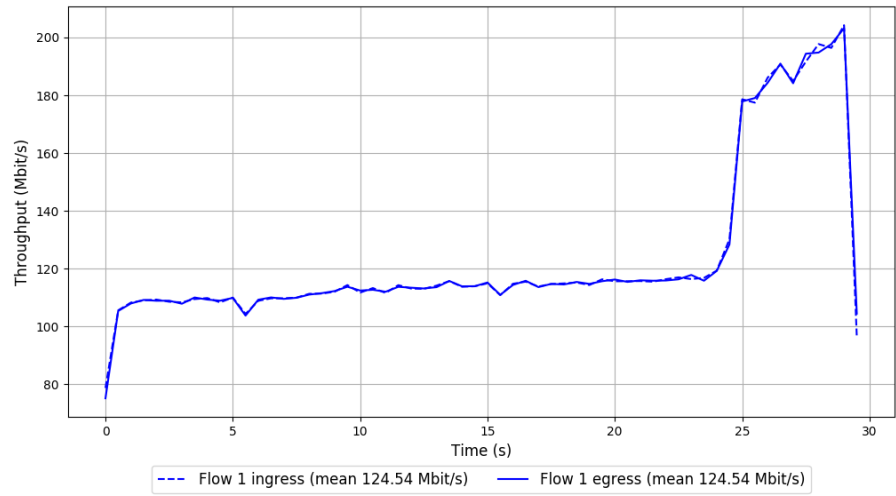
-- Flow 1:

Average throughput: 124.54 Mbit/s

95th percentile per-packet one-way delay: 19.641 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-11-21 03:50:23

End at: 2017-11-21 03:50:53

Local clock offset: 2.29 ms

Remote clock offset: -1.874 ms

Below is generated by plot.py at 2017-11-21 08:11:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.11 Mbit/s

95th percentile per-packet one-way delay: 19.094 ms

Loss rate: 0.00%

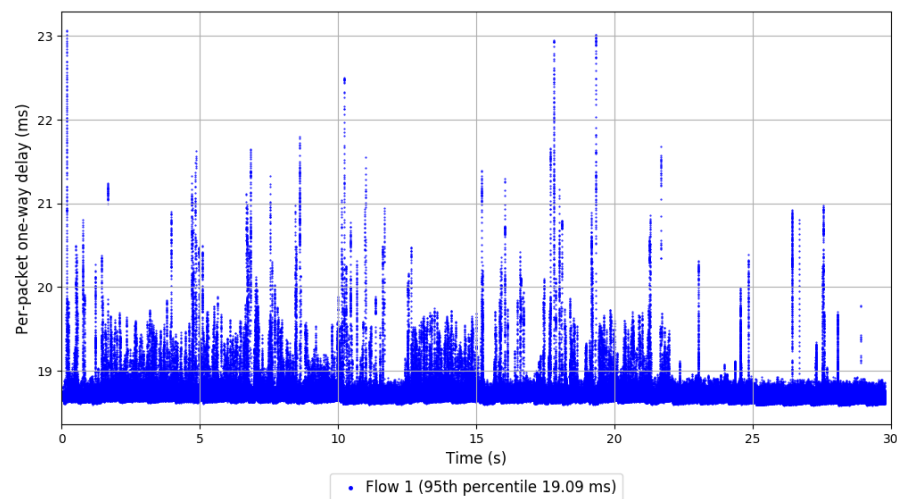
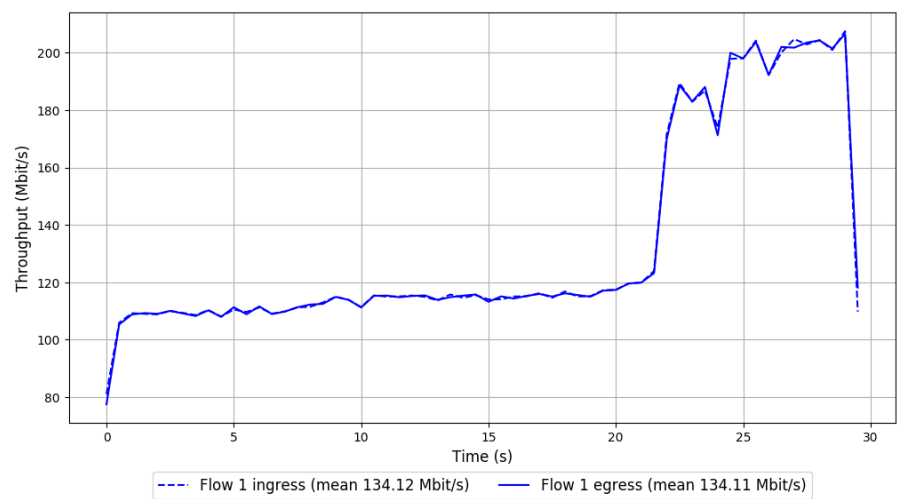
-- Flow 1:

Average throughput: 134.11 Mbit/s

95th percentile per-packet one-way delay: 19.094 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-11-21 04:08:48

End at: 2017-11-21 04:09:18

Local clock offset: 2.228 ms

Remote clock offset: -1.707 ms

Below is generated by plot.py at 2017-11-21 08:11:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 125.16 Mbit/s

95th percentile per-packet one-way delay: 19.206 ms

Loss rate: 0.00%

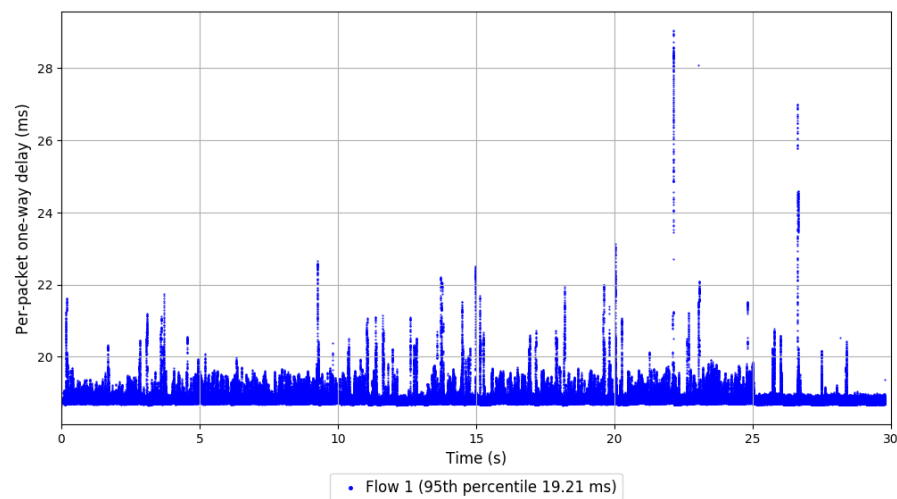
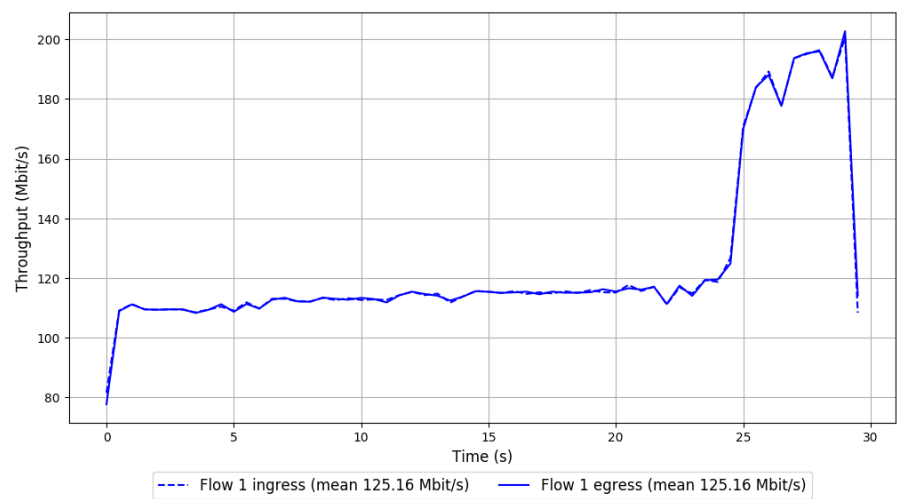
-- Flow 1:

Average throughput: 125.16 Mbit/s

95th percentile per-packet one-way delay: 19.206 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-11-21 04:27:26

End at: 2017-11-21 04:27:56

Local clock offset: 2.311 ms

Remote clock offset: -1.634 ms

Below is generated by plot.py at 2017-11-21 08:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 130.43 Mbit/s

95th percentile per-packet one-way delay: 19.220 ms

Loss rate: 0.00%

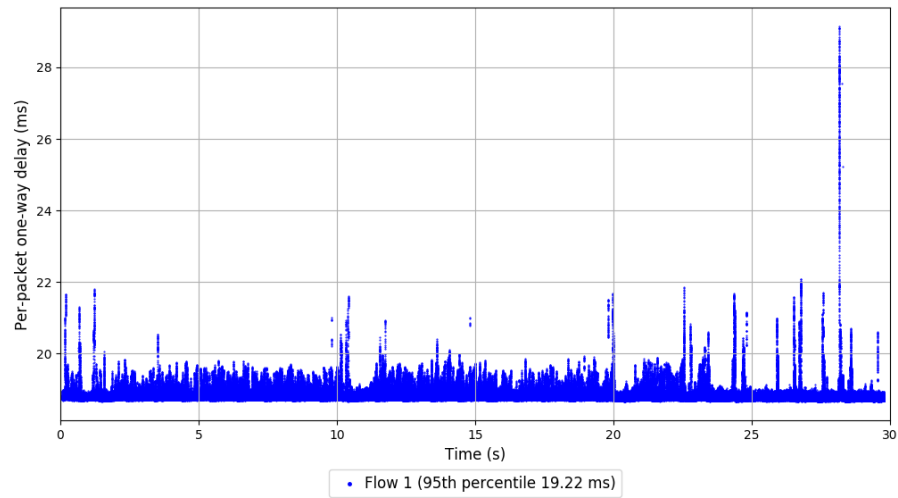
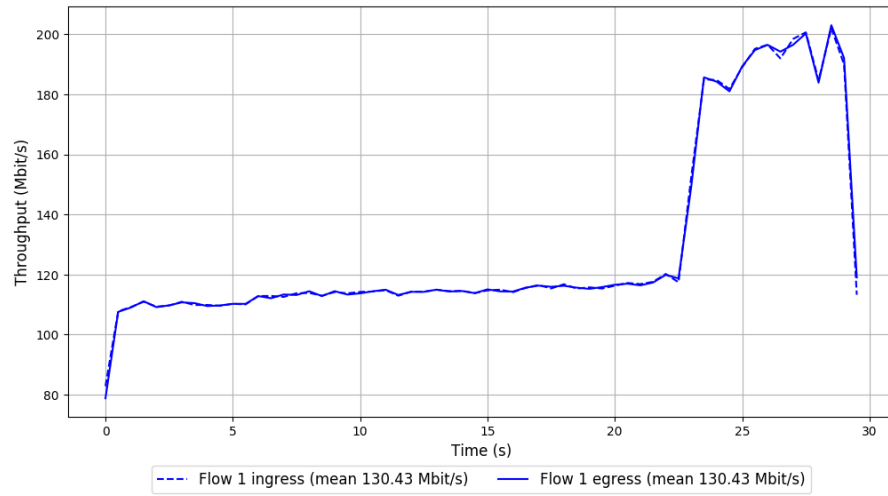
-- Flow 1:

Average throughput: 130.43 Mbit/s

95th percentile per-packet one-way delay: 19.220 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

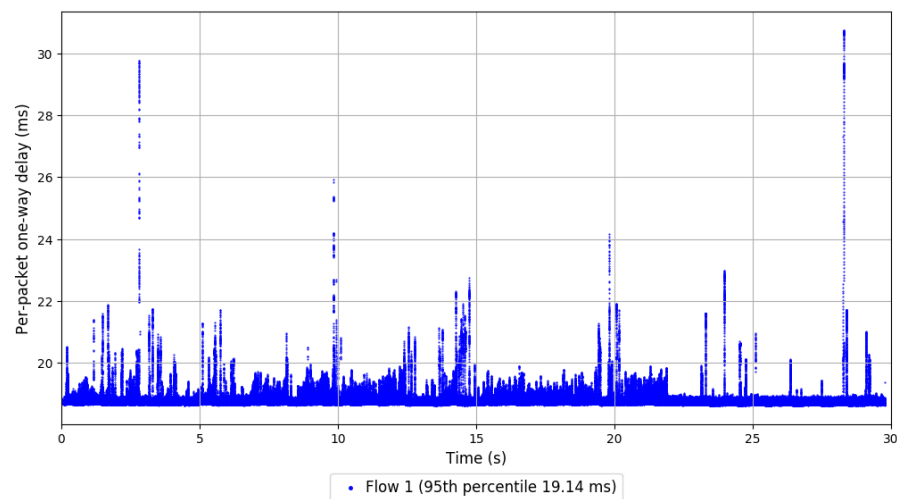
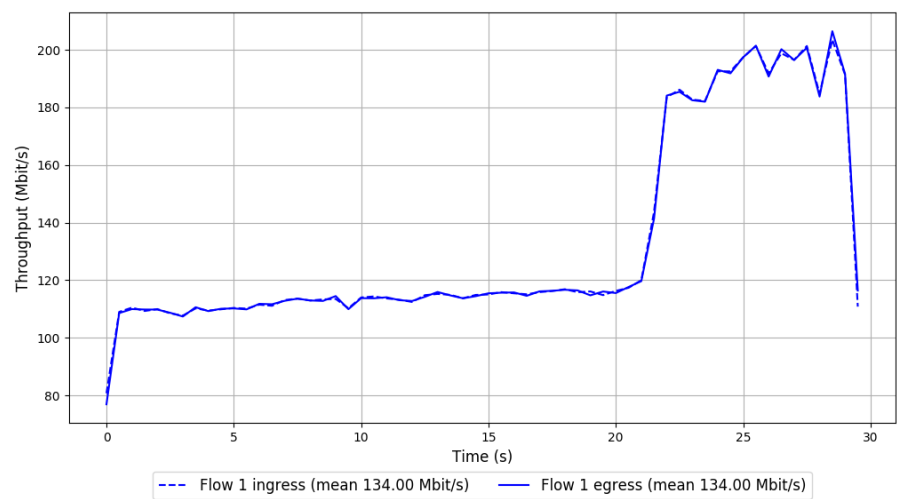


Run 7: Statistics of Indigo-calib

Start at: 2017-11-21 04:45:57
End at: 2017-11-21 04:46:27
Local clock offset: 2.513 ms
Remote clock offset: -1.291 ms

Below is generated by plot.py at 2017-11-21 08:11:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 134.00 Mbit/s
95th percentile per-packet one-way delay: 19.139 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 134.00 Mbit/s
95th percentile per-packet one-way delay: 19.139 ms
Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-21 05:04:30

End at: 2017-11-21 05:05:00

Local clock offset: 1.95 ms

Remote clock offset: -1.26 ms

Below is generated by plot.py at 2017-11-21 08:12:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.98 Mbit/s

95th percentile per-packet one-way delay: 19.461 ms

Loss rate: 0.00%

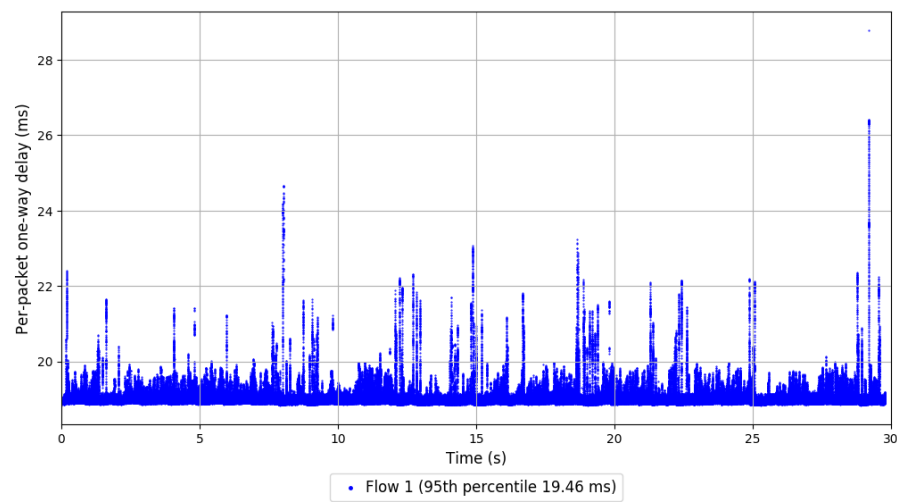
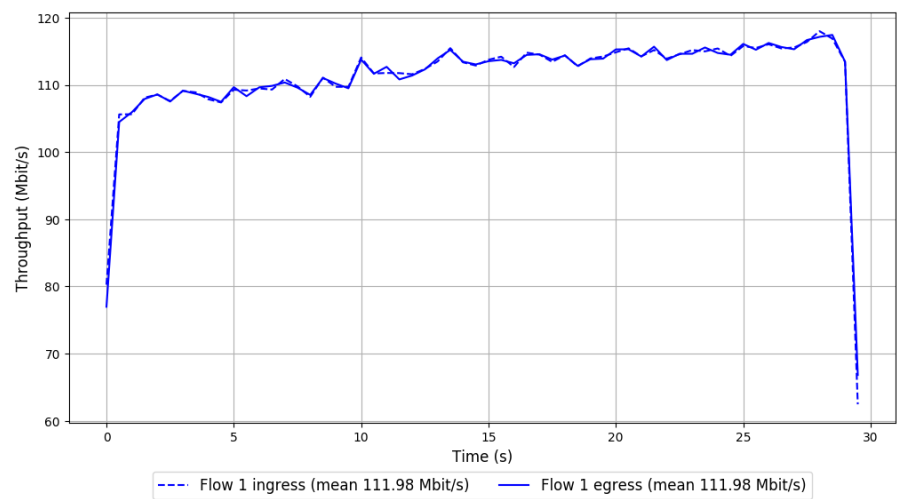
-- Flow 1:

Average throughput: 111.98 Mbit/s

95th percentile per-packet one-way delay: 19.461 ms

Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-21 05:23:00

End at: 2017-11-21 05:23:30

Local clock offset: 1.301 ms

Remote clock offset: -1.51 ms

Below is generated by plot.py at 2017-11-21 08:12:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.31 Mbit/s

95th percentile per-packet one-way delay: 19.157 ms

Loss rate: 0.01%

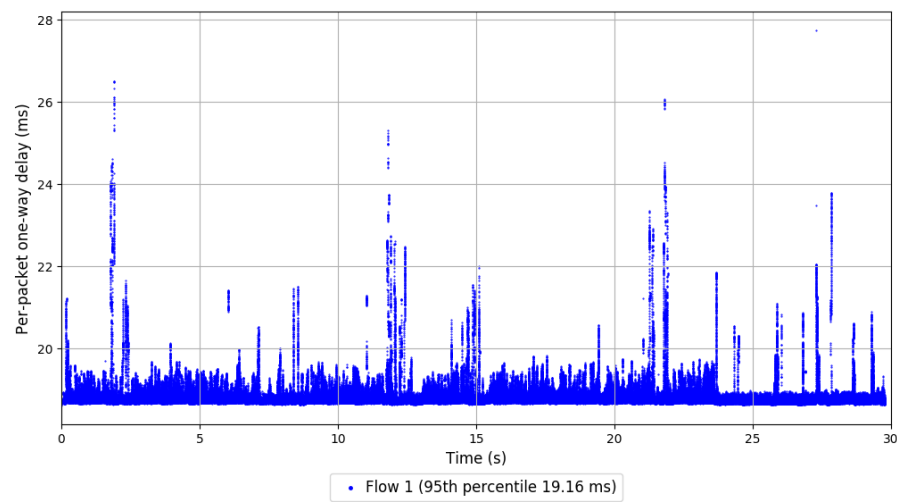
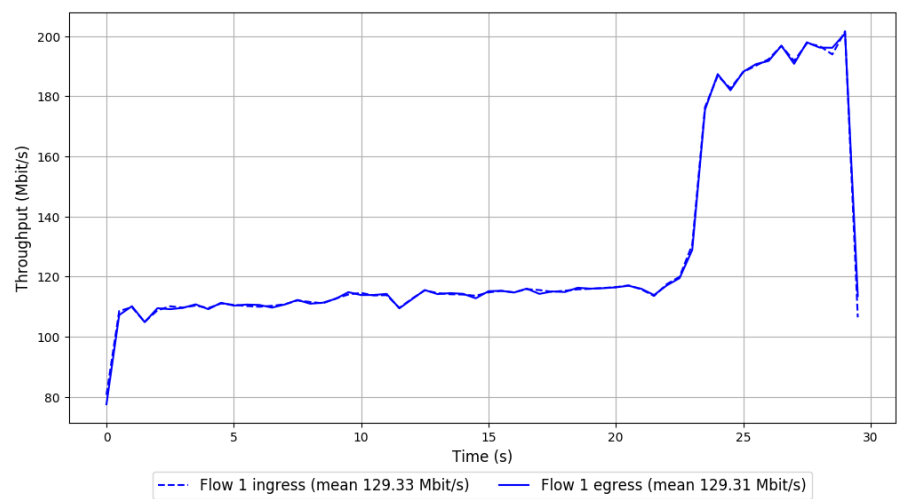
-- Flow 1:

Average throughput: 129.31 Mbit/s

95th percentile per-packet one-way delay: 19.157 ms

Loss rate: 0.01%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-21 05:41:37

End at: 2017-11-21 05:42:07

Local clock offset: 1.14 ms

Remote clock offset: -1.4 ms

Below is generated by plot.py at 2017-11-21 08:12:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 143.73 Mbit/s

95th percentile per-packet one-way delay: 18.886 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 143.73 Mbit/s

95th percentile per-packet one-way delay: 18.886 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

