

Pantheon Report

Generated at 2017-11-16 03:25:42 (UTC).

Data path: AWS California 2 Ethernet (*local*) → Mexico 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).

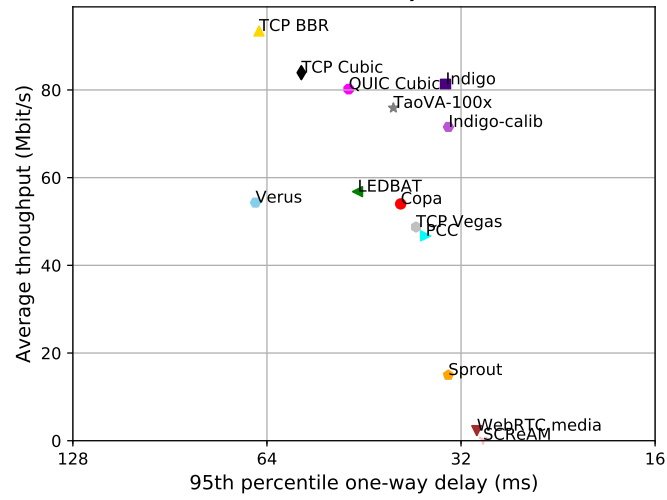
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

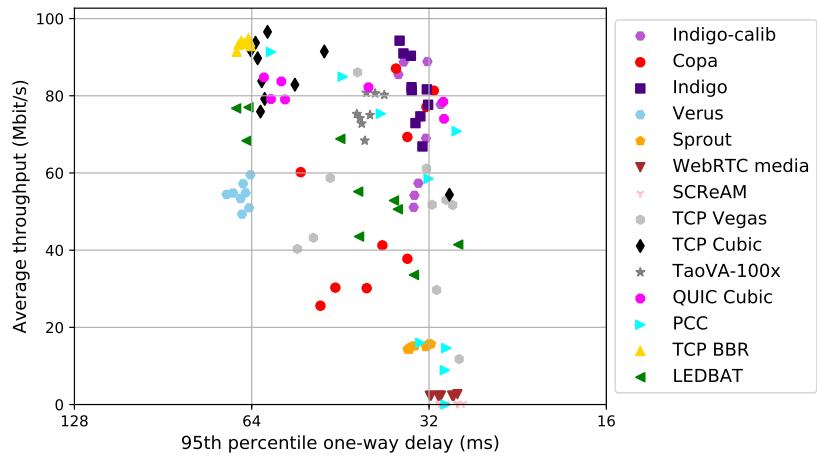
Git summary:

```
branch: indigos @ f54f2953f2a9765c9ffa988d13de5a9471790eb0
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
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 2 Ethernet to Mexico Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from AWS California 2 Ethernet to Mexico 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	8	93.45	65.84	21.89
TCP Cubic	10	83.94	56.60	0.26
LEDBAT	10	56.81	46.31	0.05
PCC	9	46.72	36.30	0.32
QUIC Cubic	7	80.20	47.80	0.48
SCReAM	10	0.22	29.58	0.00
WebRTC media	10	2.30	30.25	0.03
Sprout	10	14.98	33.49	0.07
TaoVA-100x	8	75.91	40.74	0.10
TCP Vegas	10	48.74	37.58	0.28
Verus	8	54.31	66.68	40.06
Copa	10	54.01	39.70	0.13
Indigo	10	81.29	33.82	0.08
Indigo-calib	8	71.57	33.47	0.03

Run 1: Statistics of TCP BBR

Start at: 2017-11-15 23:38:33

End at: 2017-11-15 23:39:03

Local clock offset: -0.644 ms

Remote clock offset: -1.969 ms

Below is generated by plot.py at 2017-11-16 03:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 64.837 ms

Loss rate: 22.49%

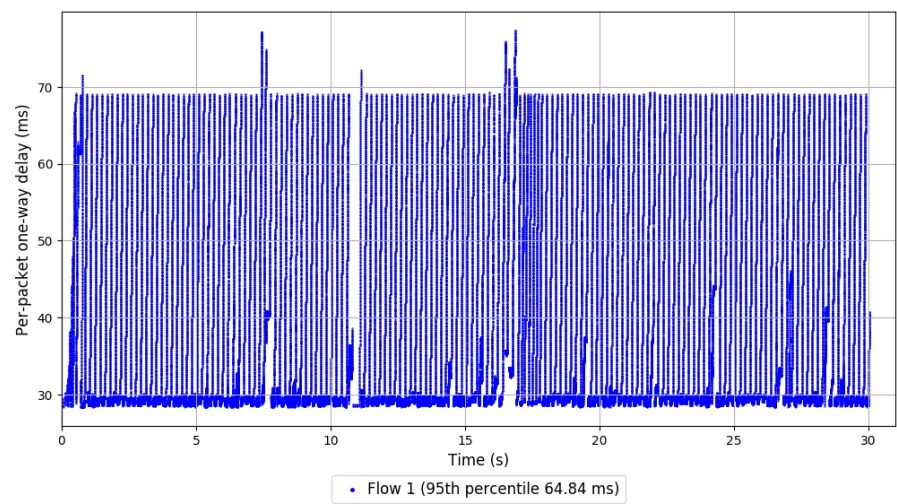
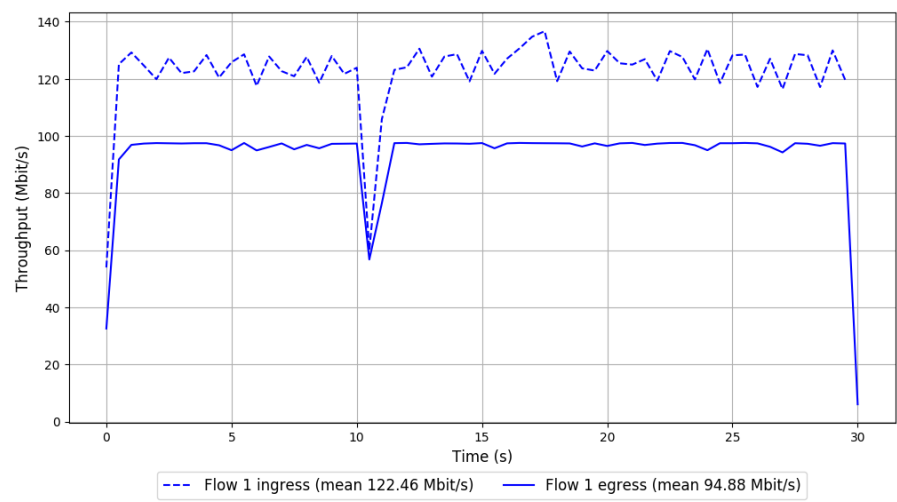
-- Flow 1:

Average throughput: 94.88 Mbit/s

95th percentile per-packet one-way delay: 64.837 ms

Loss rate: 22.49%

Run 1: Report of TCP BBR — Data Link

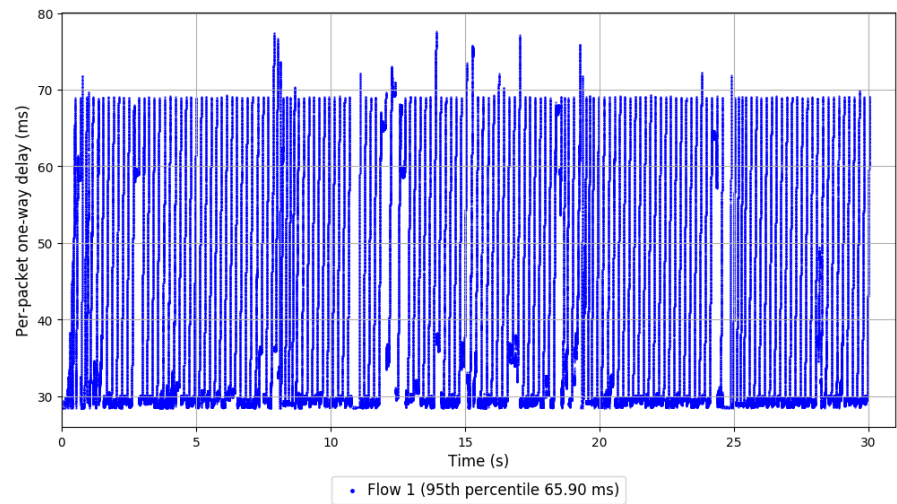
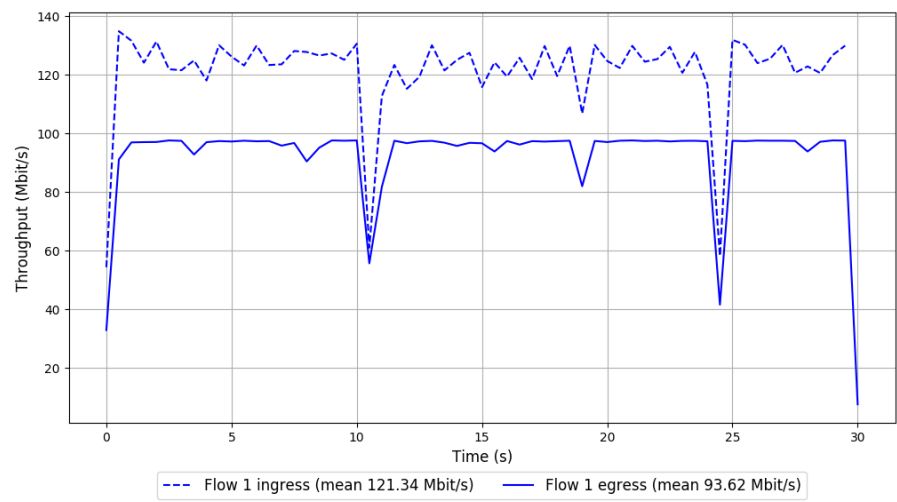


Run 2: Statistics of TCP BBR

Start at: 2017-11-15 23:58:20
End at: 2017-11-15 23:58:50
Local clock offset: -0.345 ms
Remote clock offset: -2.523 ms

Below is generated by plot.py at 2017-11-16 03:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 65.896 ms
Loss rate: 22.80%
-- Flow 1:
Average throughput: 93.62 Mbit/s
95th percentile per-packet one-way delay: 65.896 ms
Loss rate: 22.80%

Run 2: Report of TCP BBR — Data Link

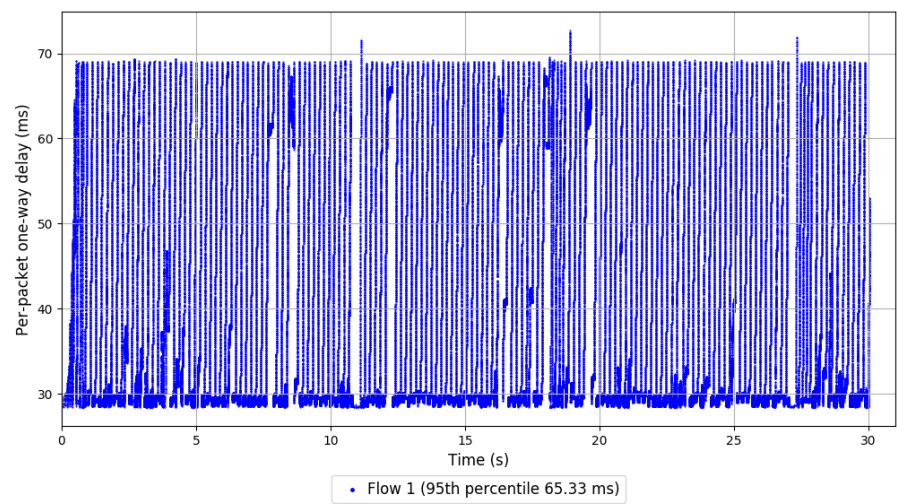
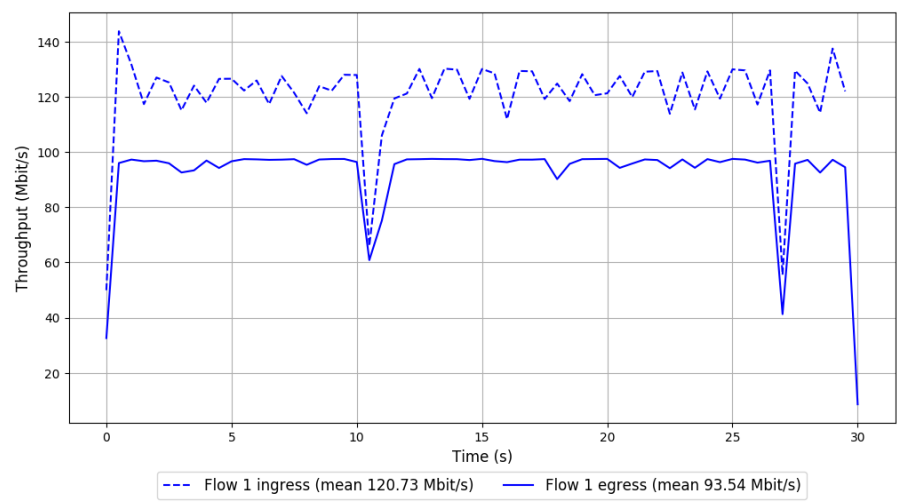


Run 3: Statistics of TCP BBR

Start at: 2017-11-16 00:18:13
End at: 2017-11-16 00:18:43
Local clock offset: -0.316 ms
Remote clock offset: -2.397 ms

Below is generated by plot.py at 2017-11-16 03:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 65.331 ms
Loss rate: 22.45%
-- Flow 1:
Average throughput: 93.54 Mbit/s
95th percentile per-packet one-way delay: 65.331 ms
Loss rate: 22.45%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-11-16 00:39:11

End at: 2017-11-16 00:39:41

Local clock offset: -0.652 ms

Remote clock offset: -0.06 ms

Below is generated by plot.py at 2017-11-16 03:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 66.664 ms

Loss rate: 22.42%

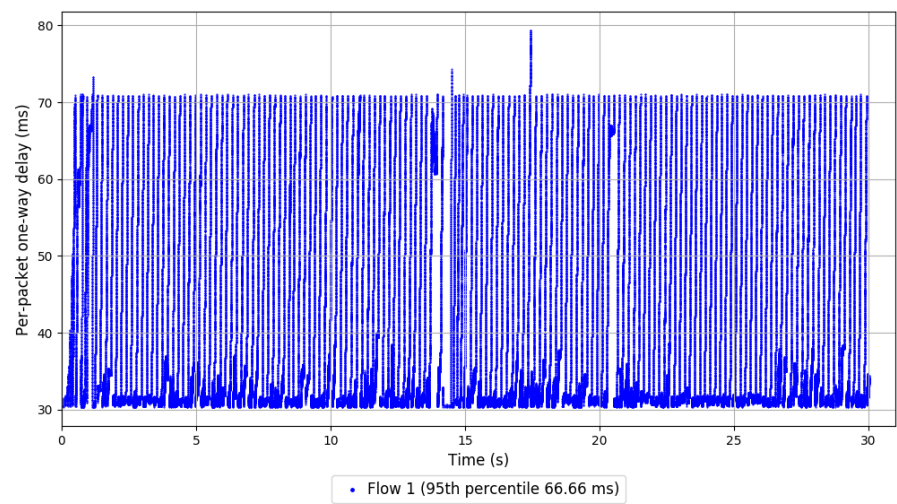
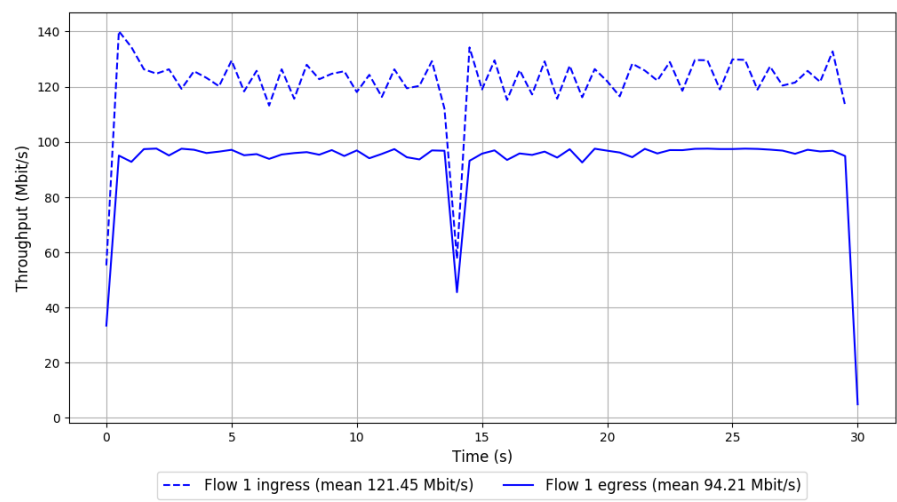
-- Flow 1:

Average throughput: 94.21 Mbit/s

95th percentile per-packet one-way delay: 66.664 ms

Loss rate: 22.42%

Run 4: Report of TCP BBR — Data Link

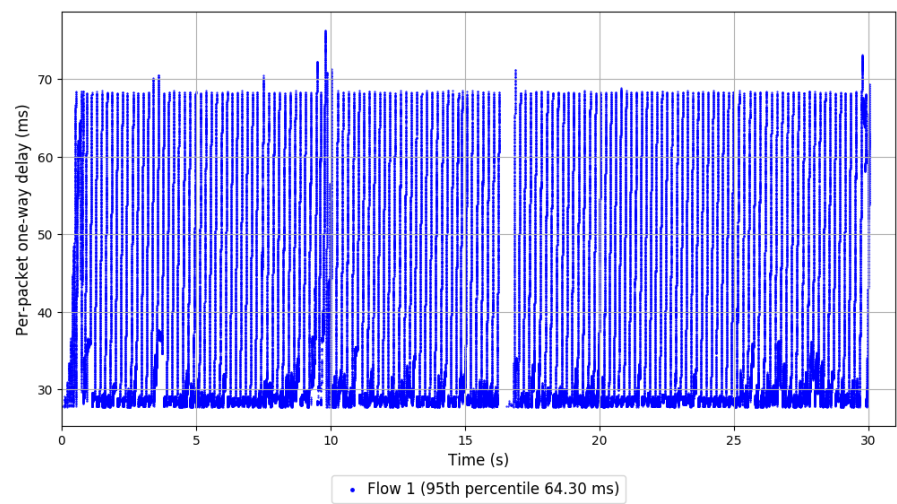
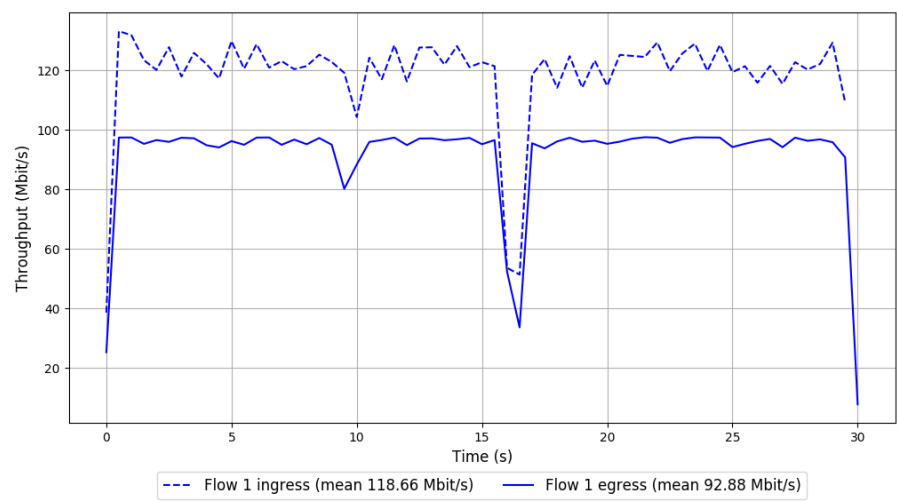


Run 5: Statistics of TCP BBR

Start at: 2017-11-16 01:00:21
End at: 2017-11-16 01:00:51
Local clock offset: -0.697 ms
Remote clock offset: -3.221 ms

Below is generated by plot.py at 2017-11-16 03:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 64.297 ms
Loss rate: 21.63%
-- Flow 1:
Average throughput: 92.88 Mbit/s
95th percentile per-packet one-way delay: 64.297 ms
Loss rate: 21.63%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-11-16 01:21:43

End at: 2017-11-16 01:22:13

Local clock offset: -0.74 ms

Remote clock offset: -1.062 ms

Below is generated by plot.py at 2017-11-16 03:11:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 67.891 ms

Loss rate: 20.67%

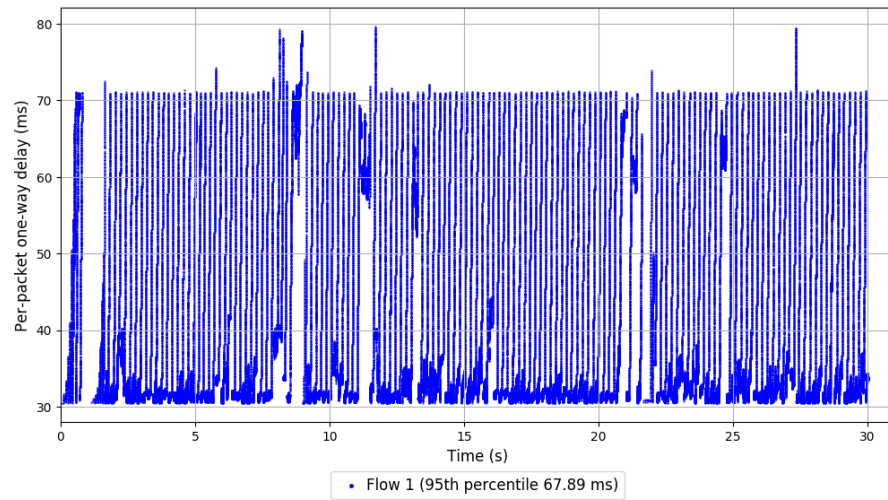
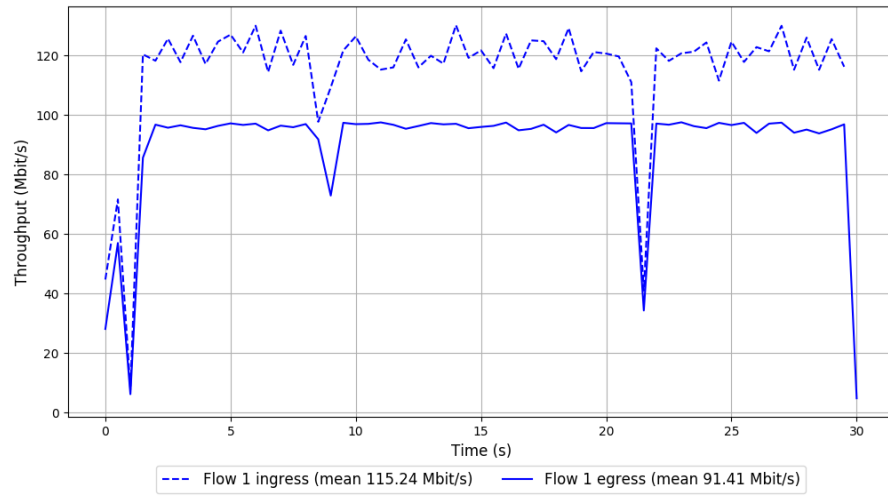
-- Flow 1:

Average throughput: 91.41 Mbit/s

95th percentile per-packet one-way delay: 67.891 ms

Loss rate: 20.67%

Run 6: Report of TCP BBR — Data Link

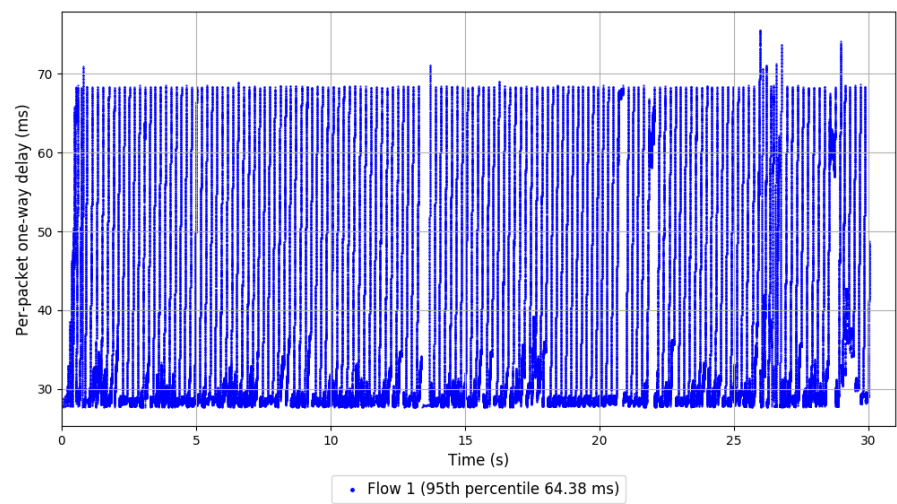
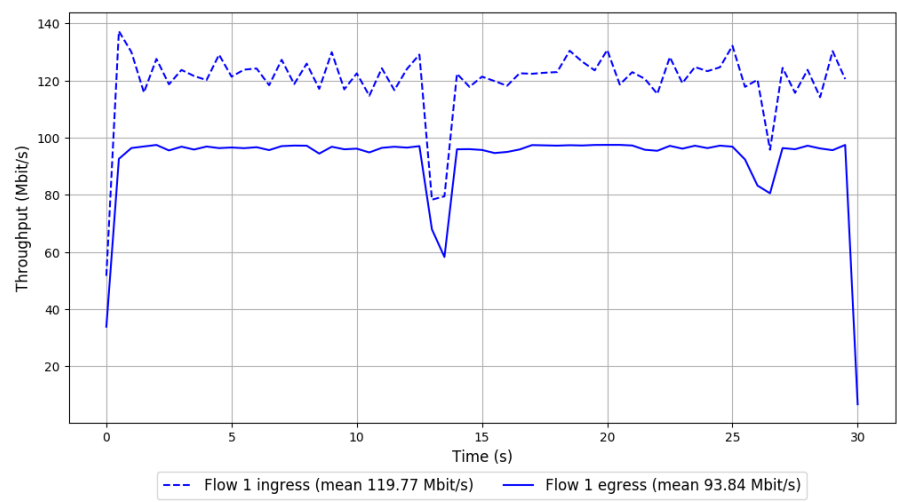


Run 7: Statistics of TCP BBR

Start at: 2017-11-16 01:44:22
End at: 2017-11-16 01:44:52
Local clock offset: -0.367 ms
Remote clock offset: -3.025 ms

Below is generated by plot.py at 2017-11-16 03:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 64.383 ms
Loss rate: 21.60%
-- Flow 1:
Average throughput: 93.84 Mbit/s
95th percentile per-packet one-way delay: 64.383 ms
Loss rate: 21.60%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2017-11-16 02:06:18

End at: 2017-11-16 02:06:48

Local clock offset: 0.166 ms

Remote clock offset: -3.601 ms

Run 8: Report of TCP BBR — Data Link

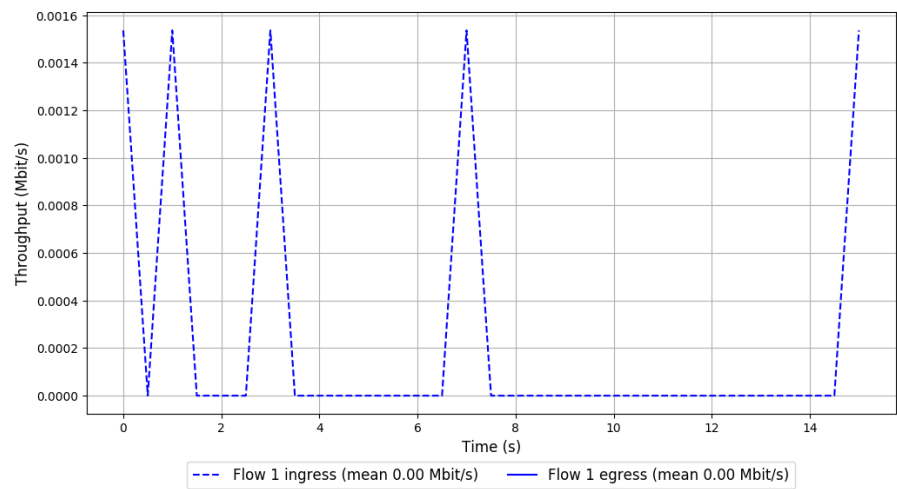


Figure is missing

Run 9: Statistics of TCP BBR

Start at: 2017-11-16 02:27:49

End at: 2017-11-16 02:28:19

Local clock offset: 0.532 ms

Remote clock offset: -1.629 ms

Run 9: Report of TCP BBR — Data Link

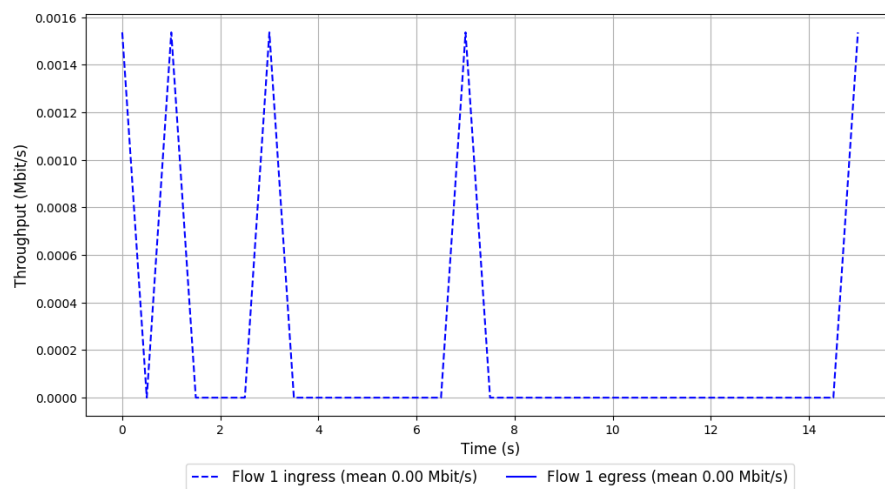


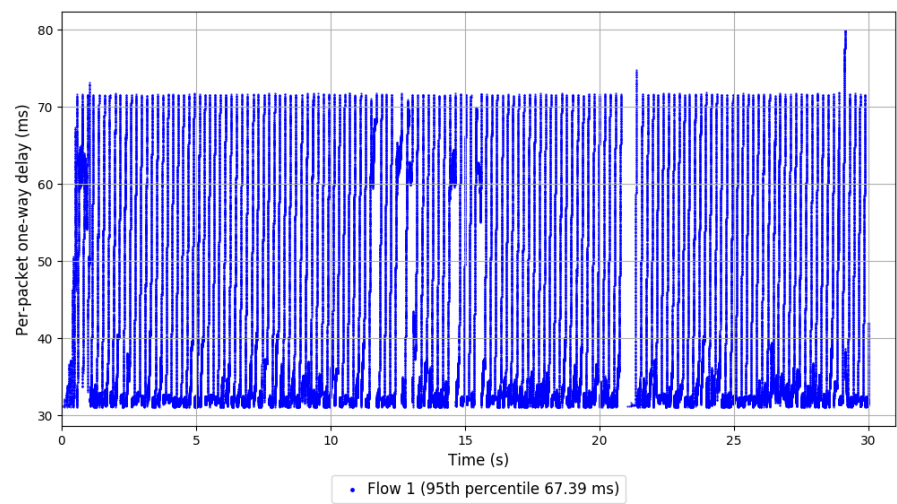
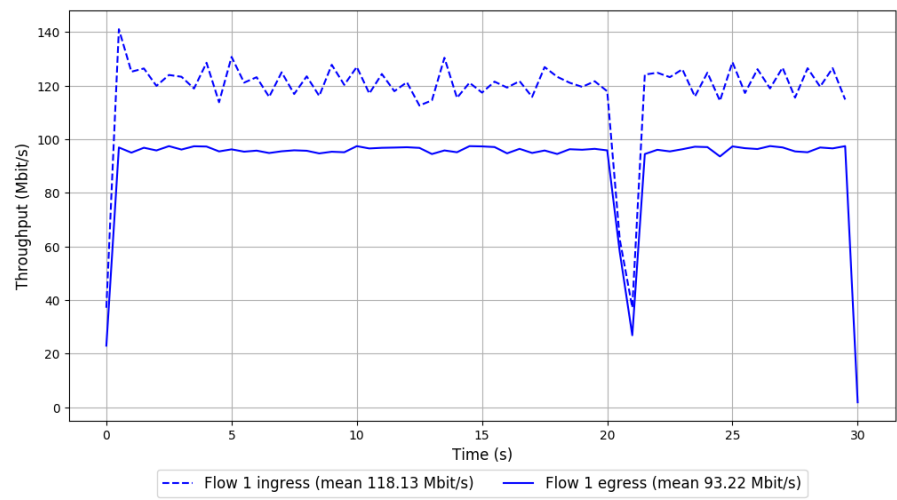
Figure is missing

Run 10: Statistics of TCP BBR

Start at: 2017-11-16 02:48:51
End at: 2017-11-16 02:49:21
Local clock offset: 0.559 ms
Remote clock offset: -0.631 ms

Below is generated by plot.py at 2017-11-16 03:11:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 67.386 ms
Loss rate: 21.06%
-- Flow 1:
Average throughput: 93.22 Mbit/s
95th percentile per-packet one-way delay: 67.386 ms
Loss rate: 21.06%

Run 10: Report of TCP BBR — Data Link

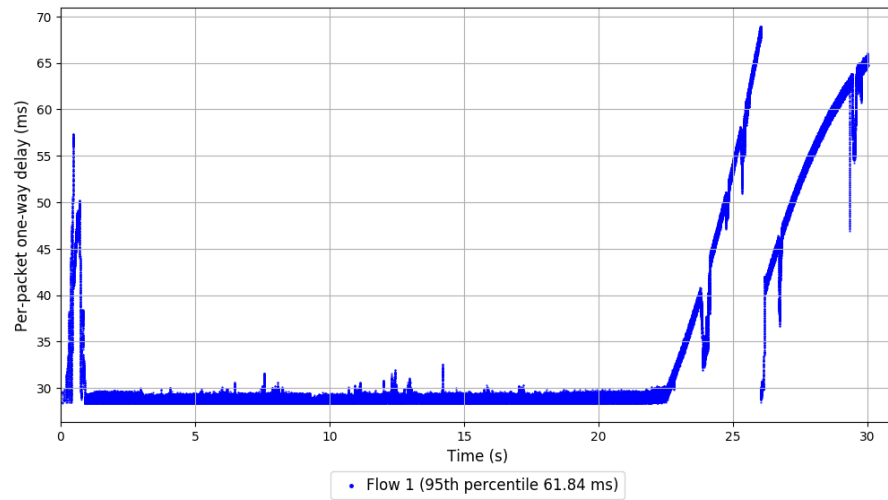
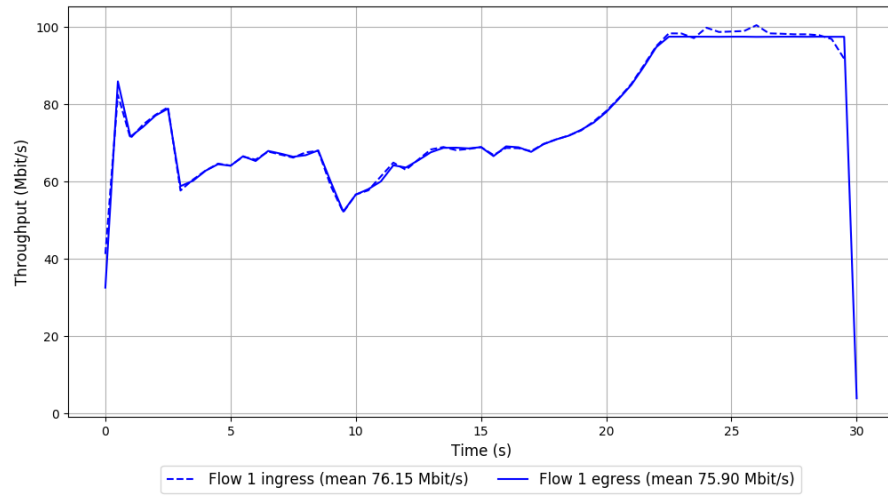


Run 1: Statistics of TCP Cubic

Start at: 2017-11-15 23:26:17
End at: 2017-11-15 23:26:47
Local clock offset: -0.631 ms
Remote clock offset: -1.888 ms

Below is generated by plot.py at 2017-11-16 03:12:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.90 Mbit/s
95th percentile per-packet one-way delay: 61.840 ms
Loss rate: 0.24%
-- Flow 1:
Average throughput: 75.90 Mbit/s
95th percentile per-packet one-way delay: 61.840 ms
Loss rate: 0.24%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2017-11-15 23:45:53

End at: 2017-11-15 23:46:23

Local clock offset: -0.406 ms

Remote clock offset: -2.02 ms

Below is generated by plot.py at 2017-11-16 03:12:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.36 Mbit/s

95th percentile per-packet one-way delay: 29.545 ms

Loss rate: 0.11%

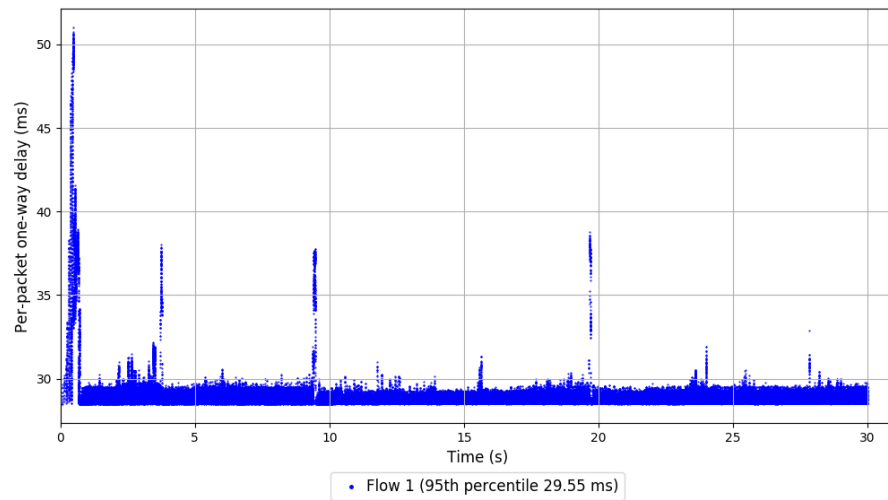
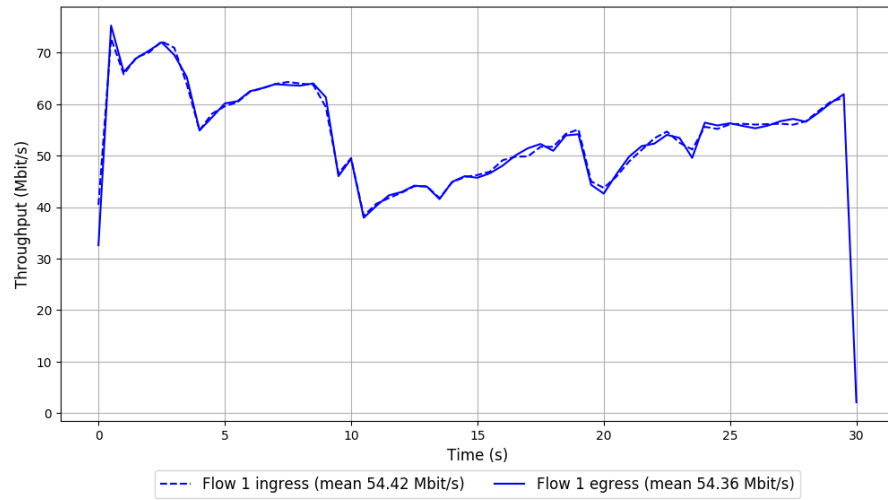
-- Flow 1:

Average throughput: 54.36 Mbit/s

95th percentile per-packet one-way delay: 29.545 ms

Loss rate: 0.11%

Run 2: Report of TCP Cubic — Data Link

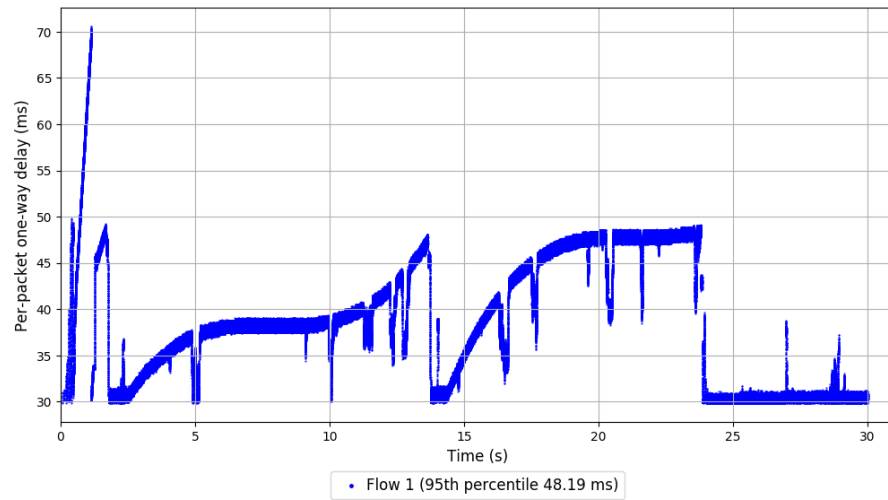
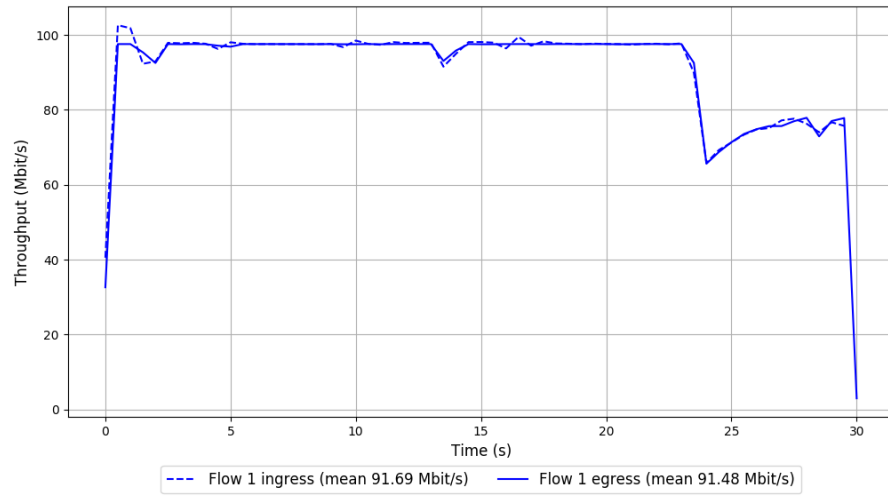


Run 3: Statistics of TCP Cubic

Start at: 2017-11-16 00:05:37
End at: 2017-11-16 00:06:07
Local clock offset: -0.287 ms
Remote clock offset: -0.529 ms

Below is generated by plot.py at 2017-11-16 03:13:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 48.188 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 91.48 Mbit/s
95th percentile per-packet one-way delay: 48.188 ms
Loss rate: 0.22%

Run 3: Report of TCP Cubic — Data Link

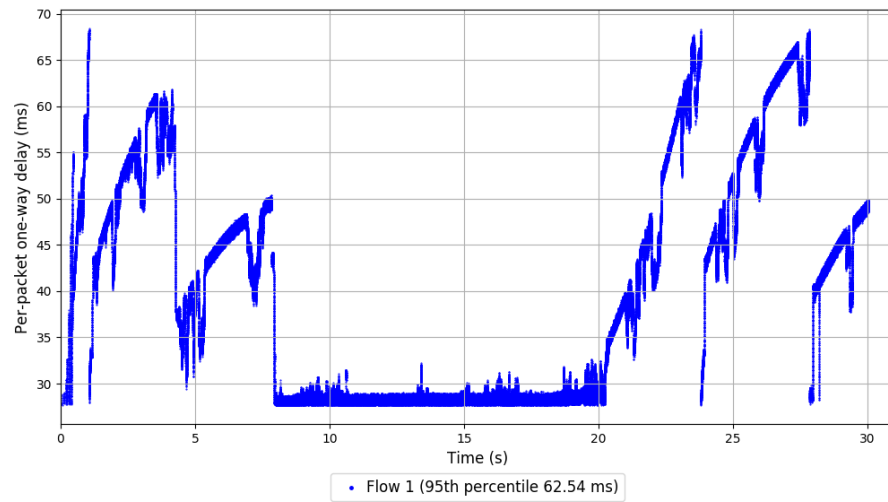
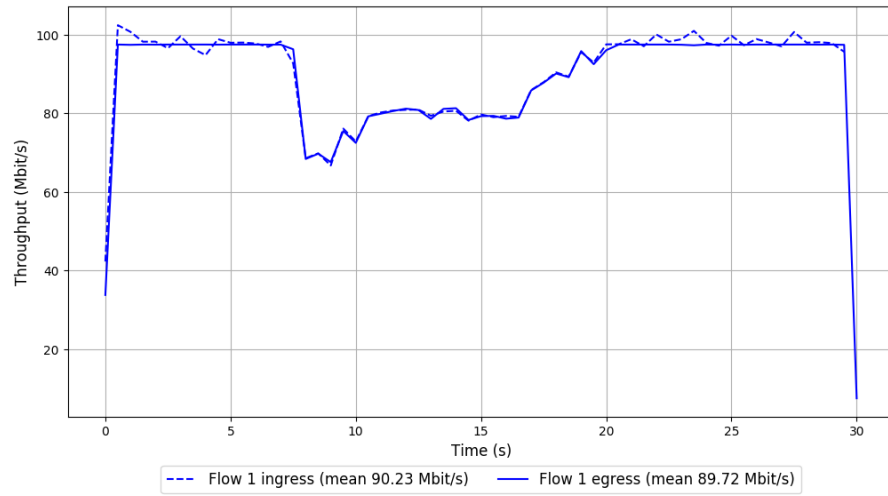


Run 4: Statistics of TCP Cubic

Start at: 2017-11-16 00:26:10
End at: 2017-11-16 00:26:40
Local clock offset: -0.448 ms
Remote clock offset: -2.442 ms

Below is generated by plot.py at 2017-11-16 03:13:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 62.539 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 89.72 Mbit/s
95th percentile per-packet one-way delay: 62.539 ms
Loss rate: 0.49%

Run 4: Report of TCP Cubic — Data Link

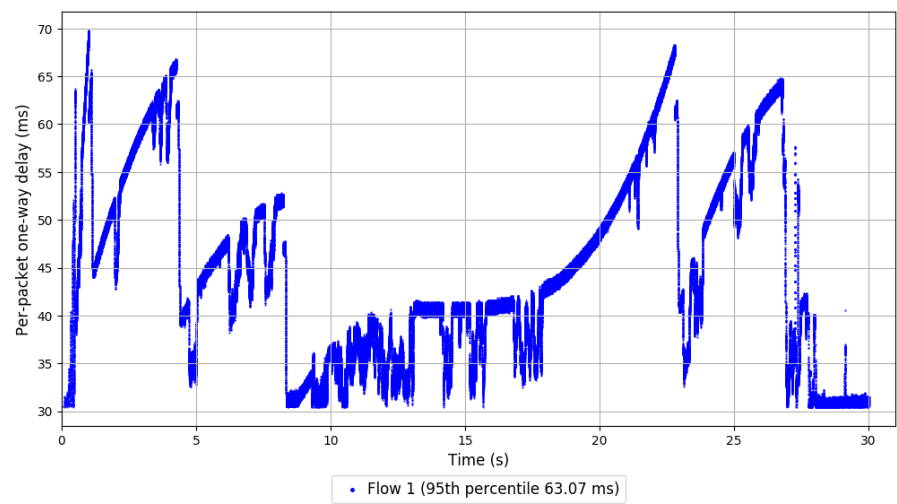
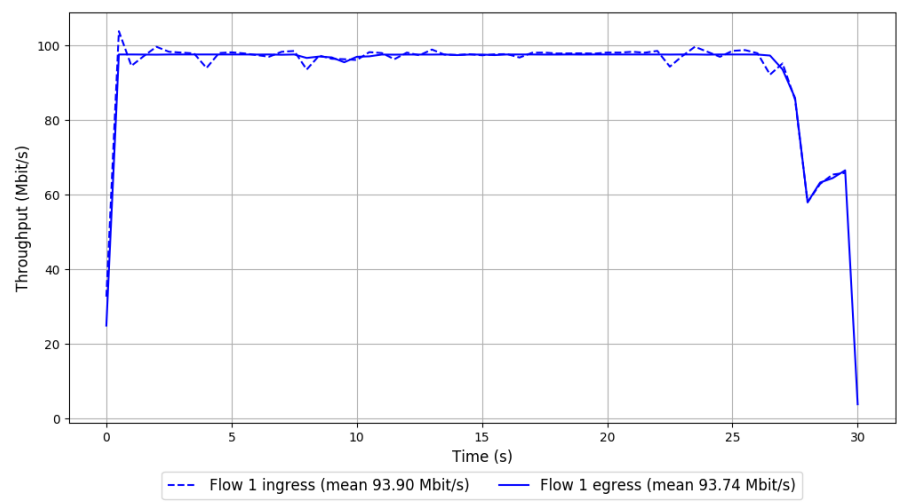


Run 5: Statistics of TCP Cubic

Start at: 2017-11-16 00:46:53
End at: 2017-11-16 00:47:23
Local clock offset: -0.538 ms
Remote clock offset: -0.788 ms

Below is generated by plot.py at 2017-11-16 03:13:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 63.067 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 93.74 Mbit/s
95th percentile per-packet one-way delay: 63.067 ms
Loss rate: 0.17%

Run 5: Report of TCP Cubic — Data Link

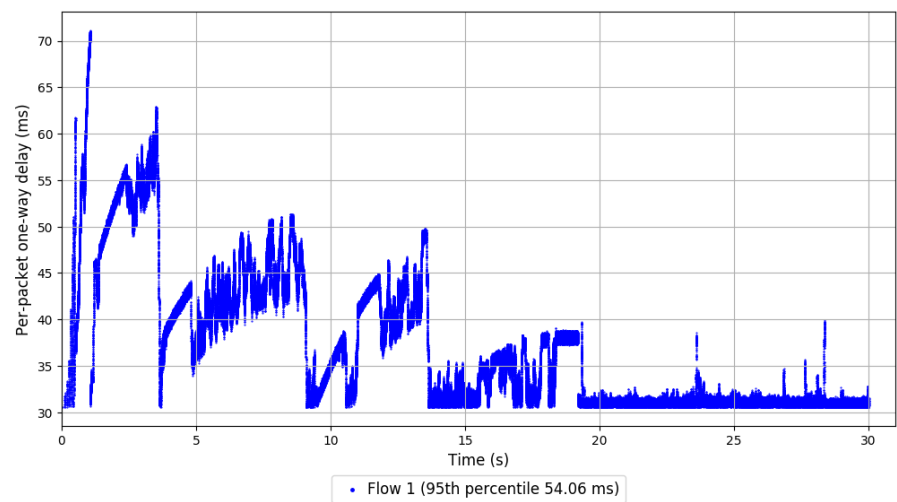
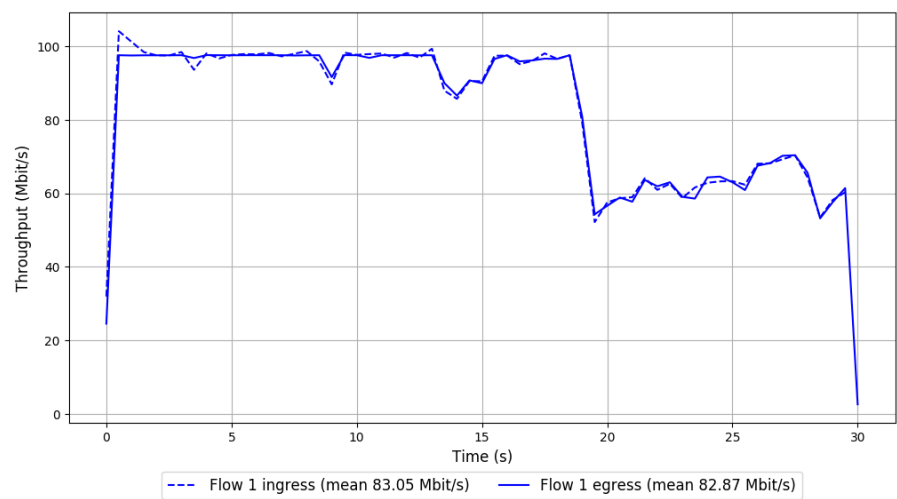


Run 6: Statistics of TCP Cubic

Start at: 2017-11-16 01:08:26
End at: 2017-11-16 01:08:56
Local clock offset: -0.761 ms
Remote clock offset: -1.068 ms

Below is generated by plot.py at 2017-11-16 03:13:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.87 Mbit/s
95th percentile per-packet one-way delay: 54.060 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 82.87 Mbit/s
95th percentile per-packet one-way delay: 54.060 ms
Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link

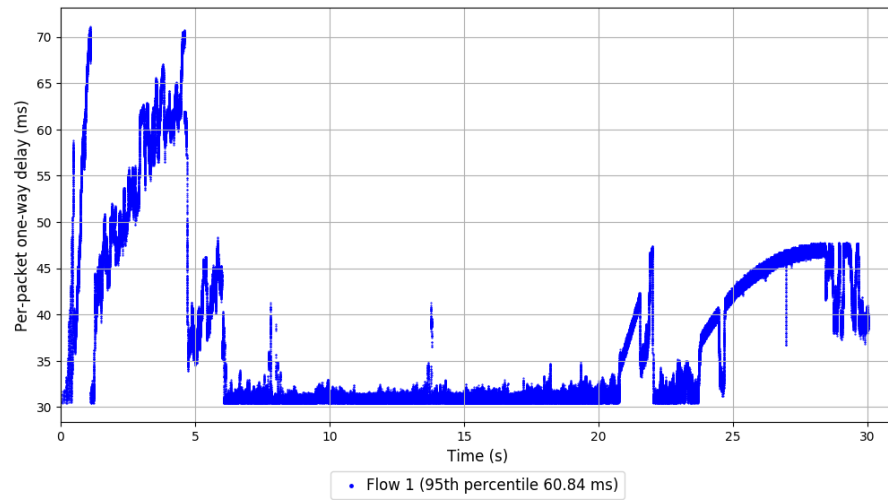
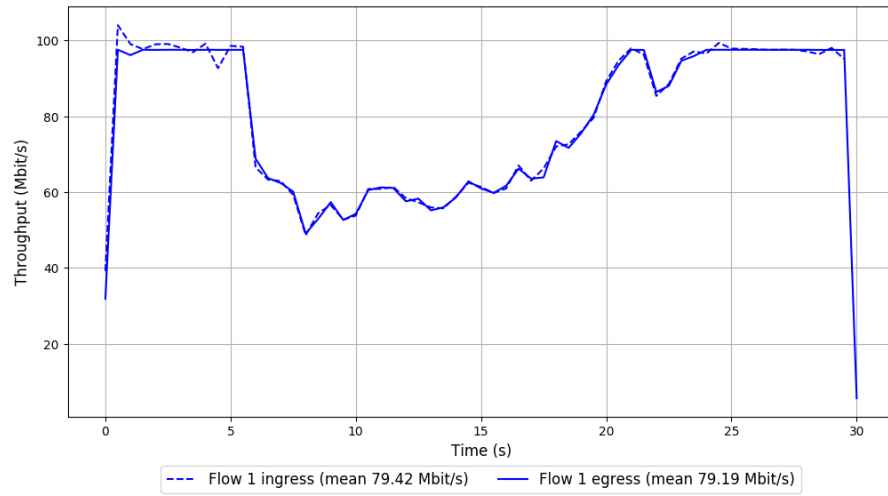


Run 7: Statistics of TCP Cubic

Start at: 2017-11-16 01:30:11
End at: 2017-11-16 01:30:41
Local clock offset: -0.77 ms
Remote clock offset: -1.007 ms

Below is generated by plot.py at 2017-11-16 03:13:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.19 Mbit/s
95th percentile per-packet one-way delay: 60.843 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 79.19 Mbit/s
95th percentile per-packet one-way delay: 60.843 ms
Loss rate: 0.26%

Run 7: Report of TCP Cubic — Data Link

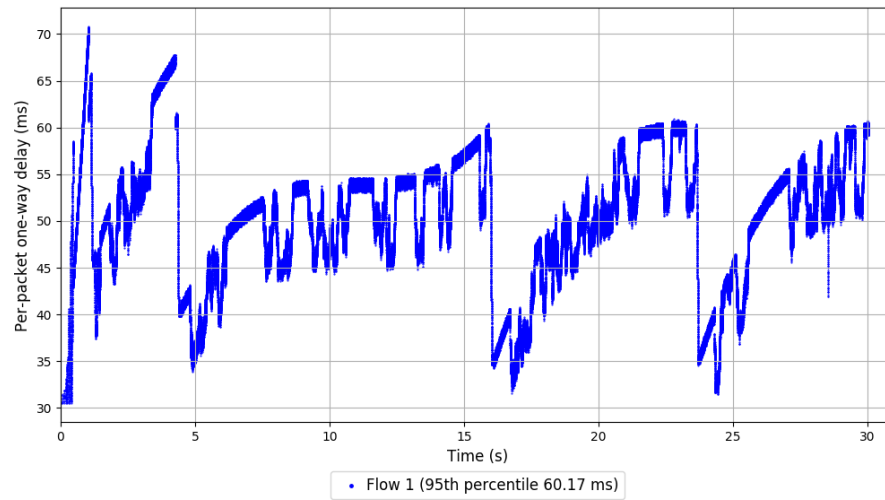
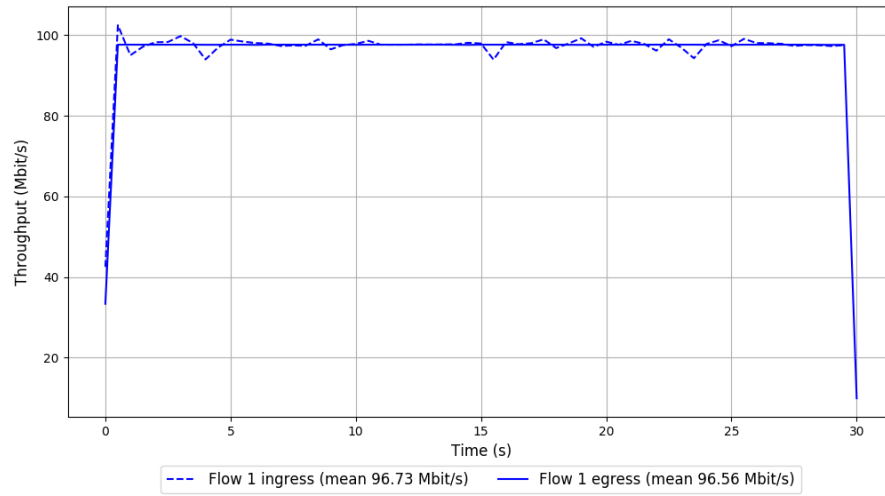


Run 8: Statistics of TCP Cubic

Start at: 2017-11-16 01:52:21
End at: 2017-11-16 01:52:51
Local clock offset: -0.155 ms
Remote clock offset: -0.564 ms

Below is generated by plot.py at 2017-11-16 03:13:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 60.166 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 96.56 Mbit/s
95th percentile per-packet one-way delay: 60.166 ms
Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link

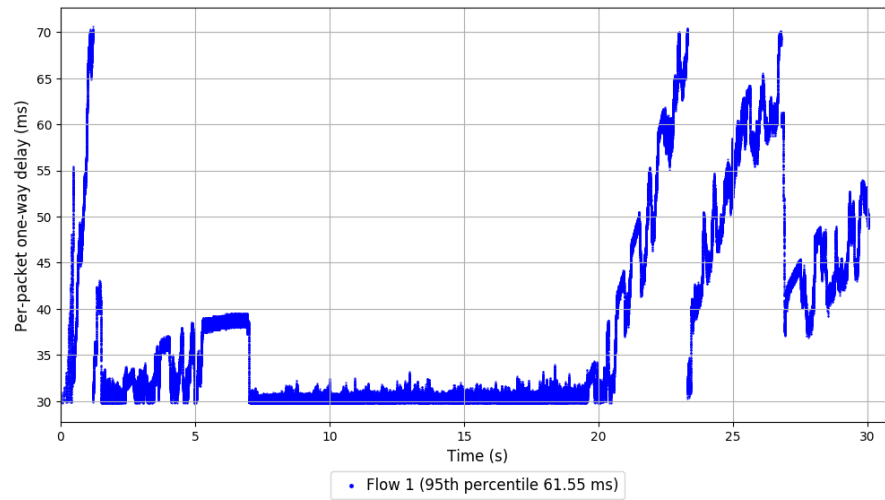
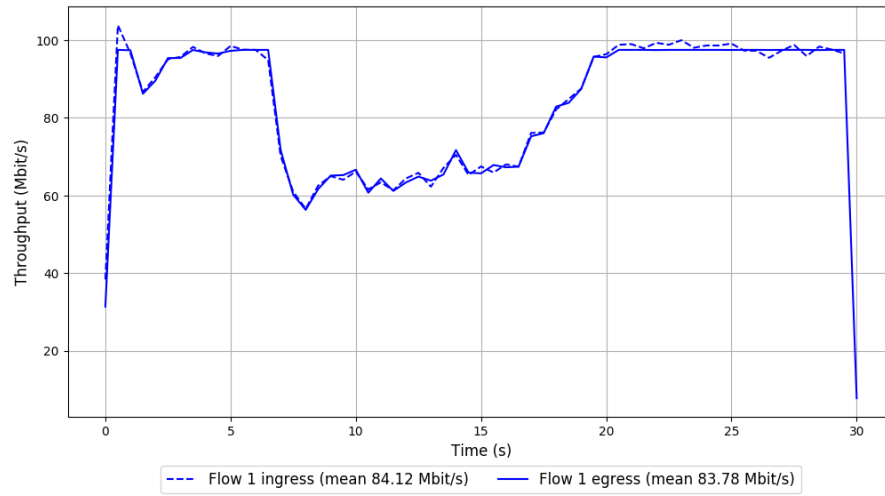


Run 9: Statistics of TCP Cubic

Start at: 2017-11-16 02:13:49
End at: 2017-11-16 02:14:19
Local clock offset: 0.256 ms
Remote clock offset: -1.692 ms

Below is generated by plot.py at 2017-11-16 03:13:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 61.546 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 83.78 Mbit/s
95th percentile per-packet one-way delay: 61.546 ms
Loss rate: 0.33%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-11-16 02:35:17

End at: 2017-11-16 02:35:47

Local clock offset: 0.651 ms

Remote clock offset: -3.51 ms

Below is generated by plot.py at 2017-11-16 03:14:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 64.230 ms

Loss rate: 0.47%

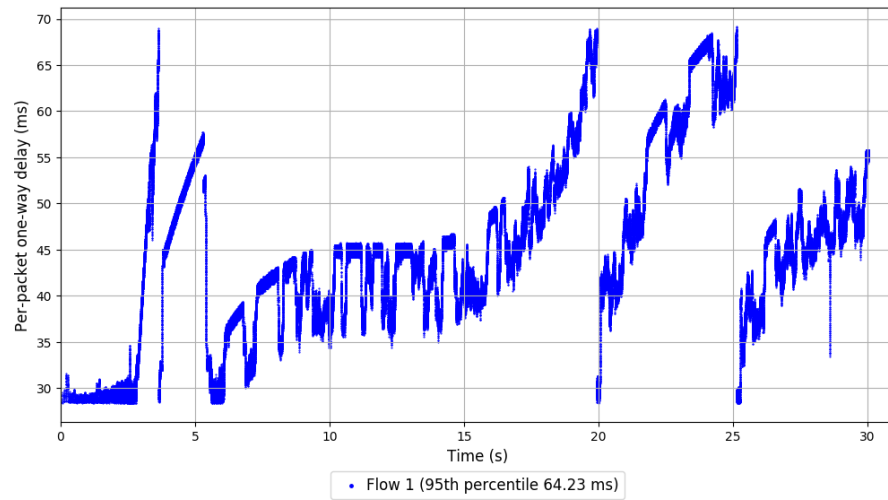
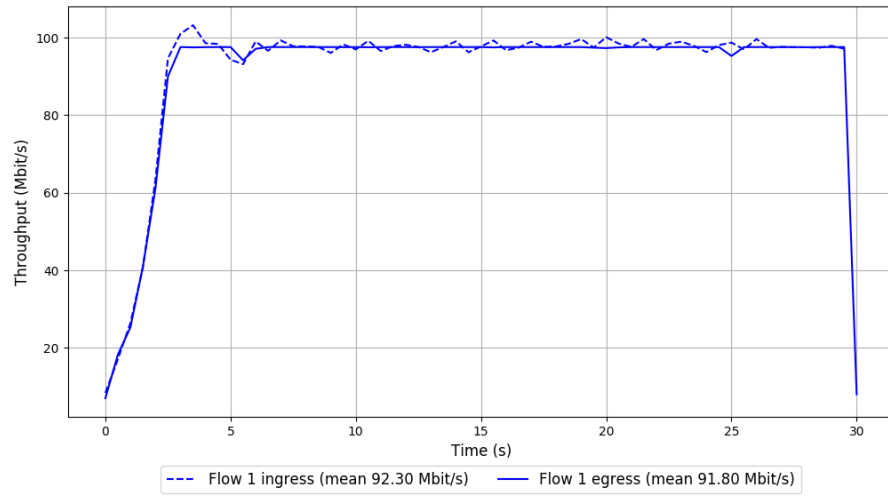
-- Flow 1:

Average throughput: 91.80 Mbit/s

95th percentile per-packet one-way delay: 64.230 ms

Loss rate: 0.47%

Run 10: Report of TCP Cubic — Data Link

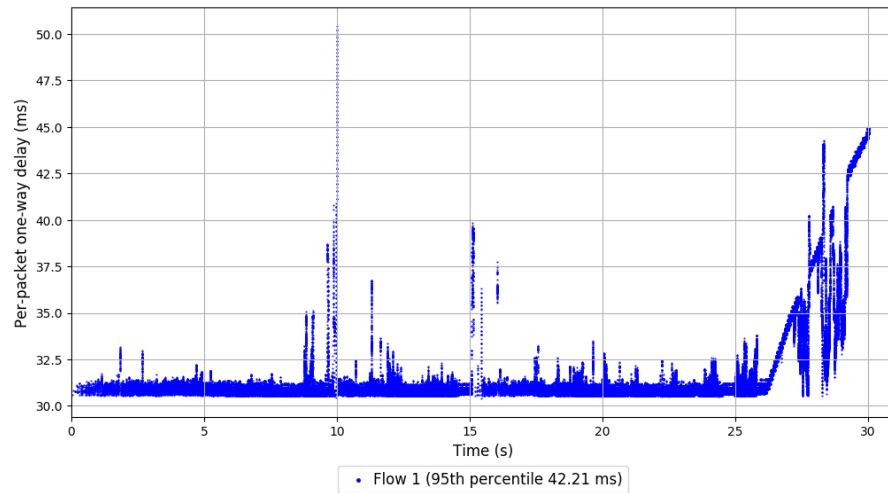
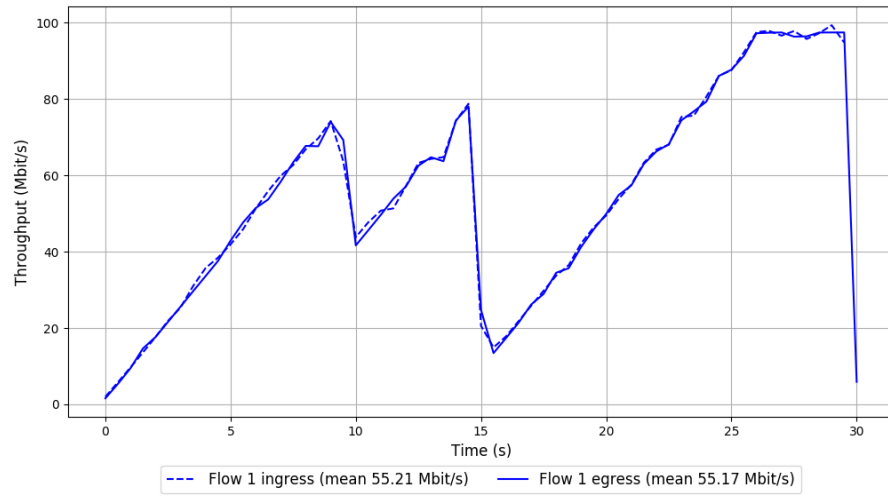


```
Run 1: Statistics of LEDBAT

Start at: 2017-11-15 23:30:14
End at: 2017-11-15 23:30:44
Local clock offset: -0.616 ms
Remote clock offset: 0.362 ms

# Below is generated by plot.py at 2017-11-16 03:14:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 42.211 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 55.17 Mbit/s
95th percentile per-packet one-way delay: 42.211 ms
Loss rate: 0.03%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2017-11-15 23:49:58

End at: 2017-11-15 23:50:28

Local clock offset: -0.357 ms

Remote clock offset: 0.262 ms

Below is generated by plot.py at 2017-11-16 03:14:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 33.942 ms

Loss rate: 0.19%

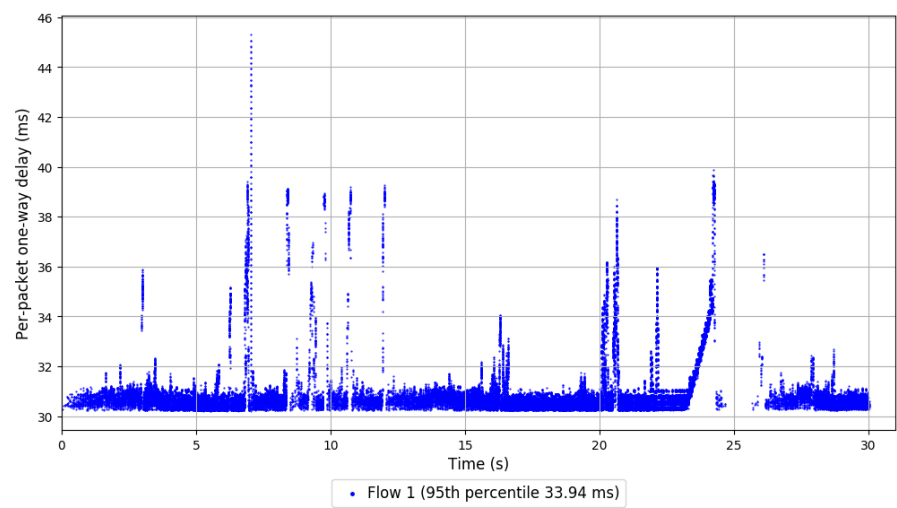
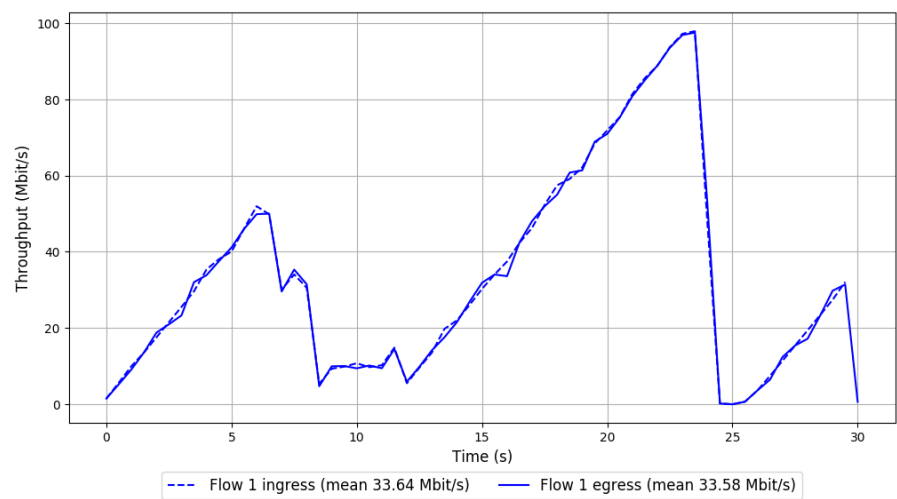
-- Flow 1:

Average throughput: 33.58 Mbit/s

95th percentile per-packet one-way delay: 33.942 ms

Loss rate: 0.19%

Run 2: Report of LEDBAT — Data Link

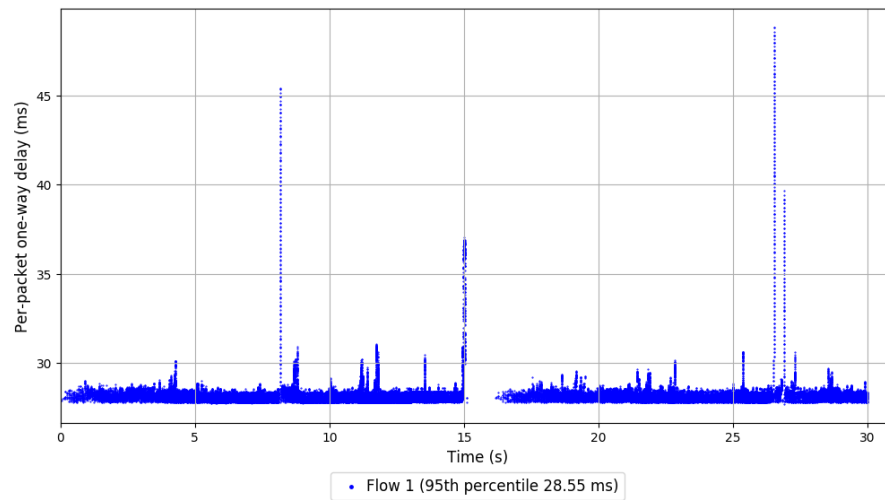
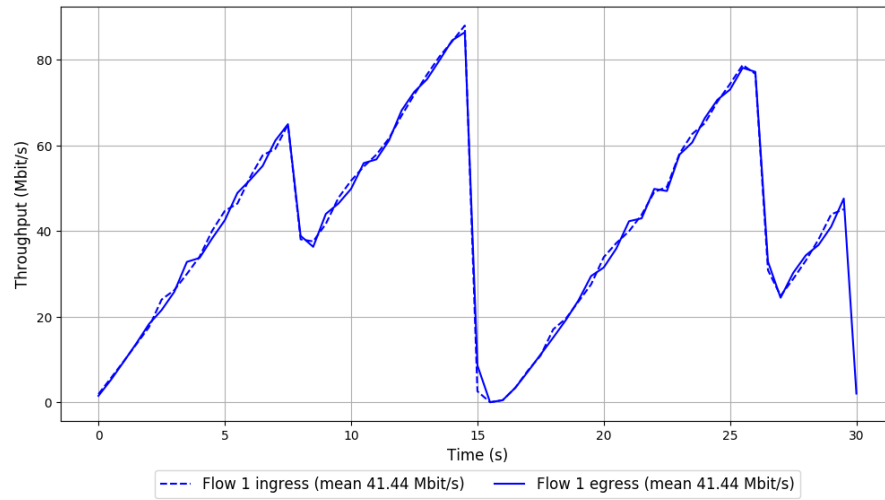


Run 3: Statistics of LEDBAT

Start at: 2017-11-16 00:09:45
End at: 2017-11-16 00:10:15
Local clock offset: -0.304 ms
Remote clock offset: -2.552 ms

Below is generated by plot.py at 2017-11-16 03:14:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 28.551 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 41.44 Mbit/s
95th percentile per-packet one-way delay: 28.551 ms
Loss rate: 0.02%

Run 3: Report of LEDBAT — Data Link

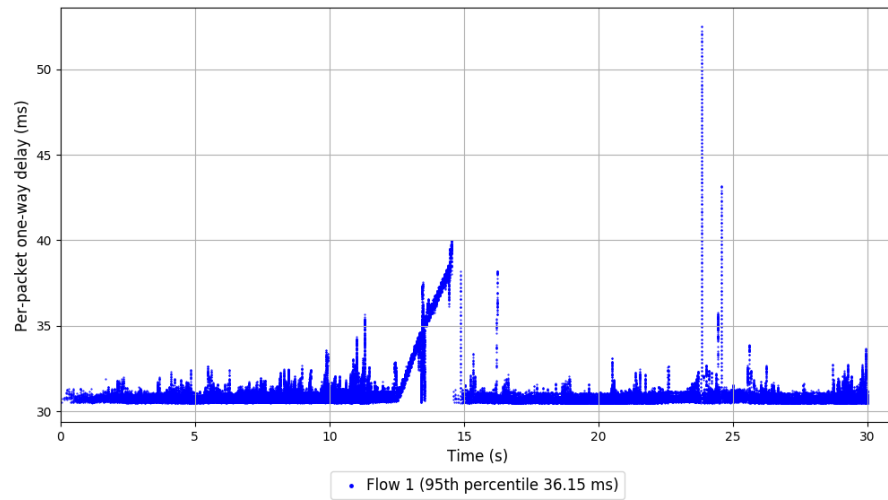
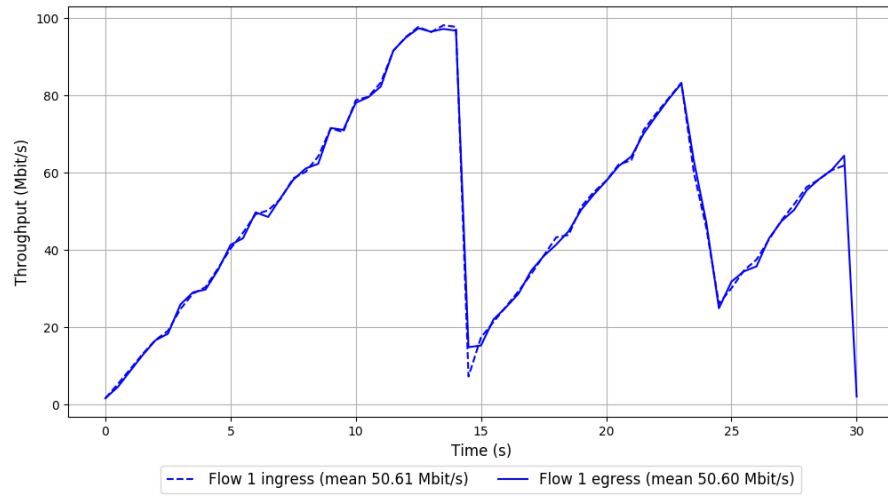


Run 4: Statistics of LEDBAT

Start at: 2017-11-16 00:30:33
End at: 2017-11-16 00:31:03
Local clock offset: -0.608 ms
Remote clock offset: -0.389 ms

Below is generated by plot.py at 2017-11-16 03:14:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 36.154 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 50.60 Mbit/s
95th percentile per-packet one-way delay: 36.154 ms
Loss rate: 0.02%

Run 4: Report of LEDBAT — Data Link

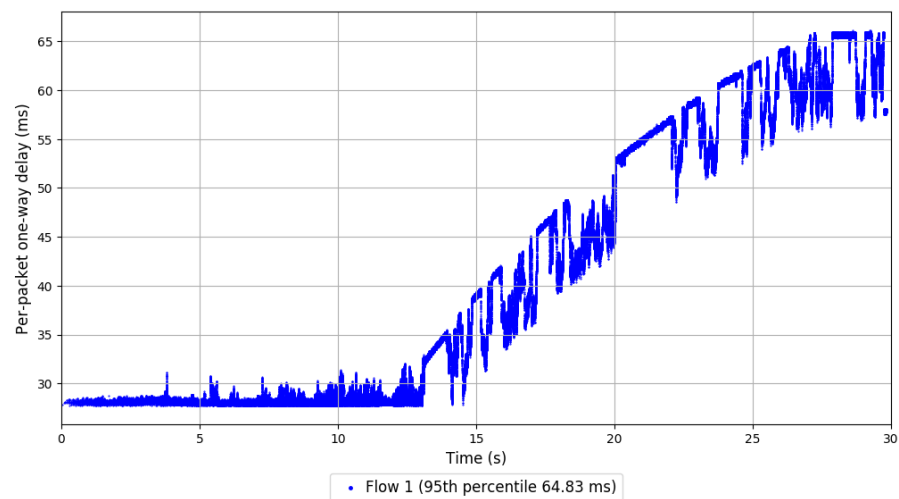
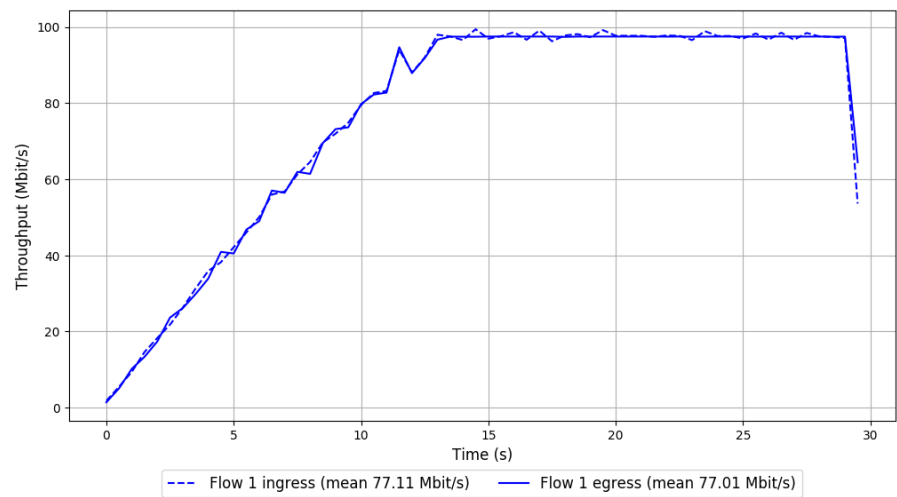


Run 5: Statistics of LEDBAT

Start at: 2017-11-16 00:51:17
End at: 2017-11-16 00:51:47
Local clock offset: -0.619 ms
Remote clock offset: -2.996 ms

Below is generated by plot.py at 2017-11-16 03:14:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 64.833 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.01 Mbit/s
95th percentile per-packet one-way delay: 64.833 ms
Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link

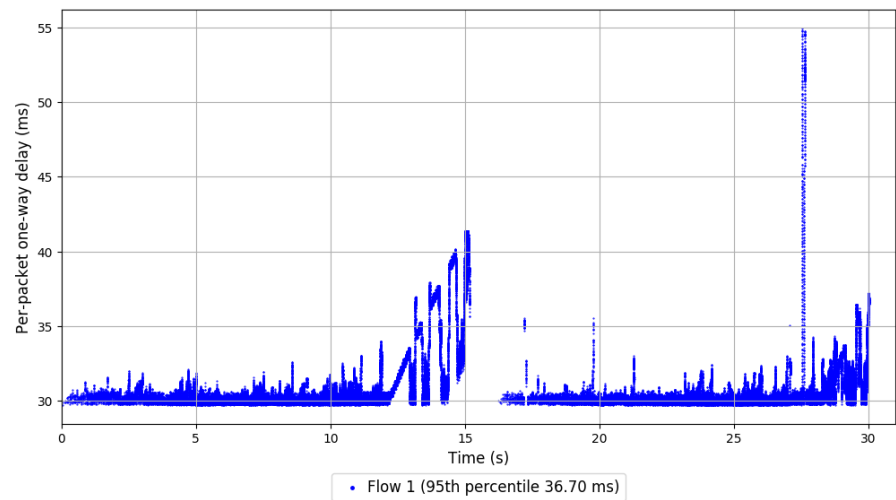
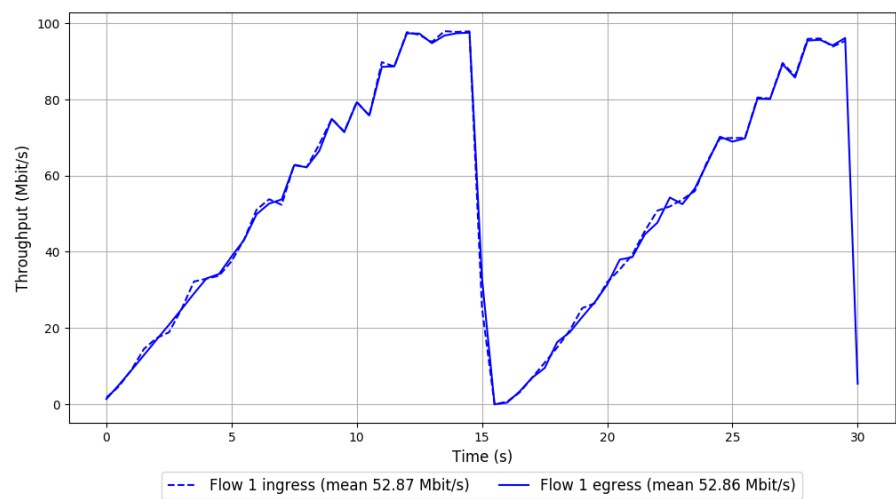


Run 6: Statistics of LEDBAT

Start at: 2017-11-16 01:12:41
End at: 2017-11-16 01:13:11
Local clock offset: -0.737 ms
Remote clock offset: -1.132 ms

Below is generated by plot.py at 2017-11-16 03:14:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 36.705 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 52.86 Mbit/s
95th percentile per-packet one-way delay: 36.705 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

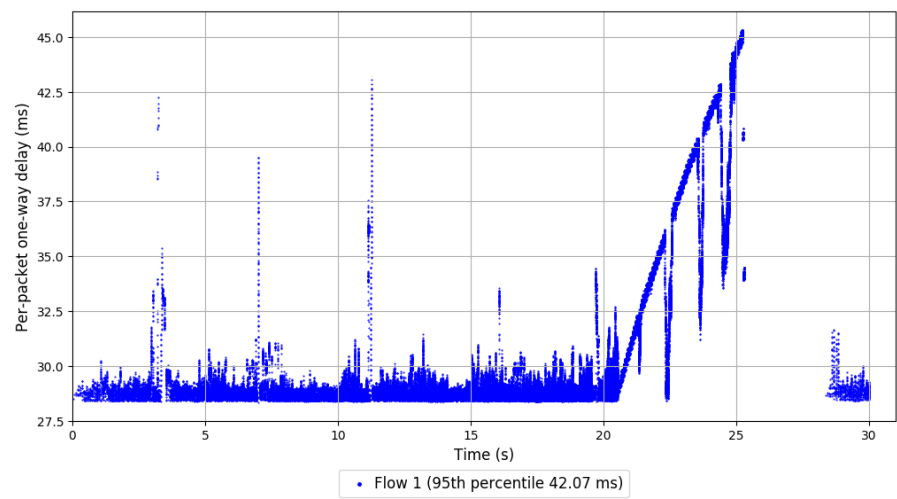
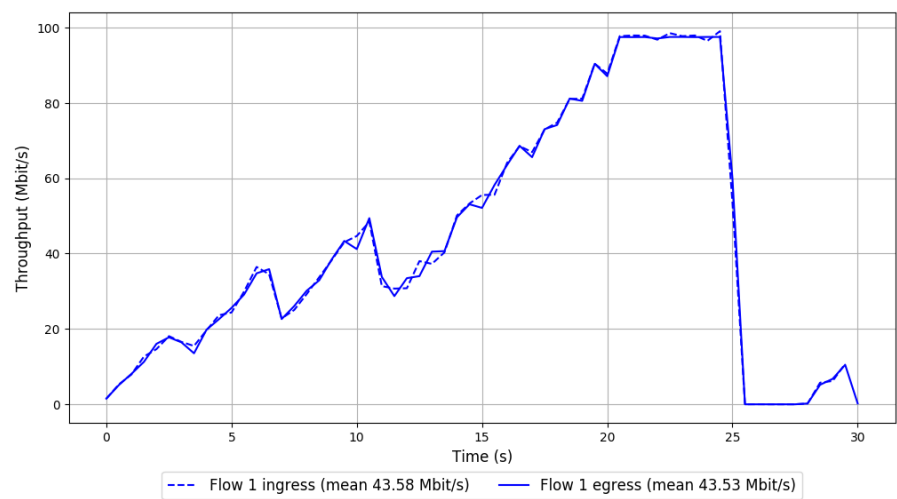


Run 7: Statistics of LEDBAT

Start at: 2017-11-16 01:34:56
End at: 2017-11-16 01:35:26
Local clock offset: -0.725 ms
Remote clock offset: -3.009 ms

Below is generated by plot.py at 2017-11-16 03:14:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 42.069 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 42.069 ms
Loss rate: 0.12%

Run 7: Report of LEDBAT — Data Link

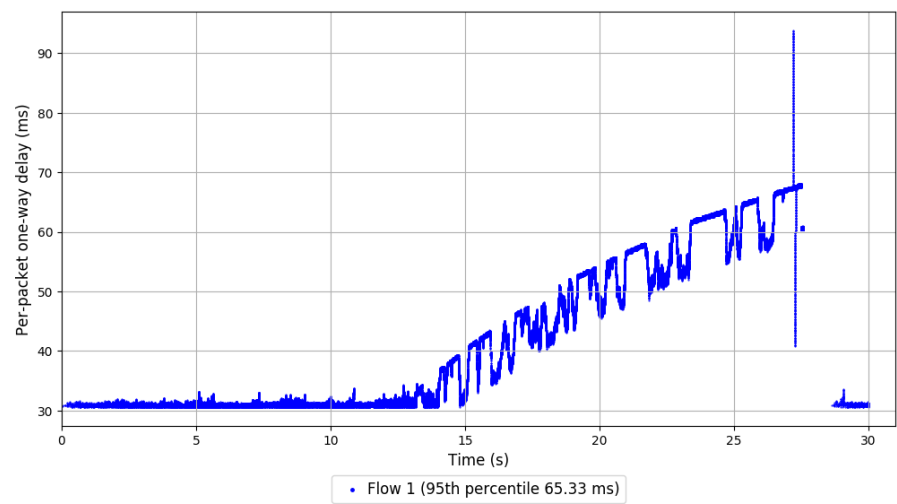
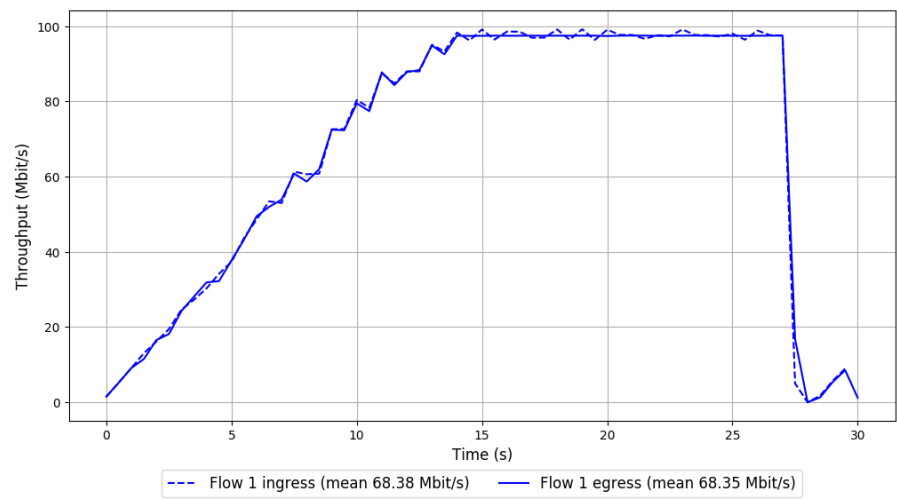


Run 8: Statistics of LEDBAT

Start at: 2017-11-16 01:56:58
End at: 2017-11-16 01:57:28
Local clock offset: -0.023 ms
Remote clock offset: -1.236 ms

Below is generated by plot.py at 2017-11-16 03:14:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.35 Mbit/s
95th percentile per-packet one-way delay: 65.329 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 68.35 Mbit/s
95th percentile per-packet one-way delay: 65.329 ms
Loss rate: 0.03%

Run 8: Report of LEDBAT — Data Link

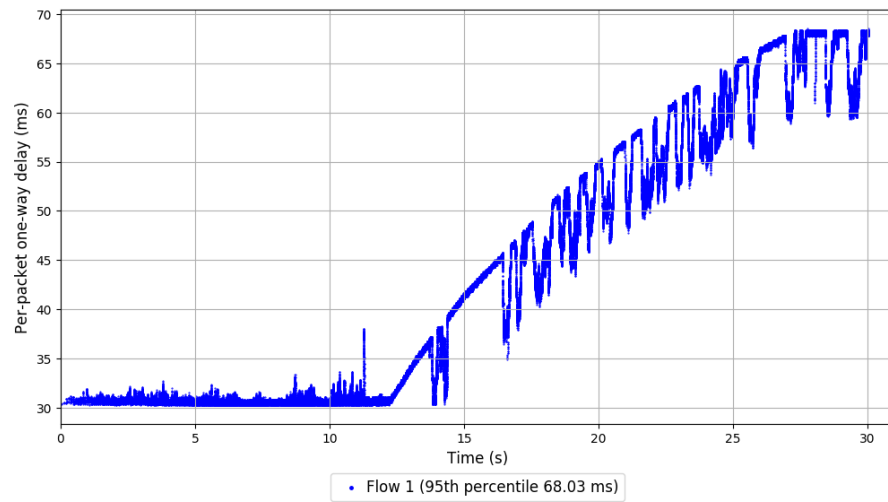
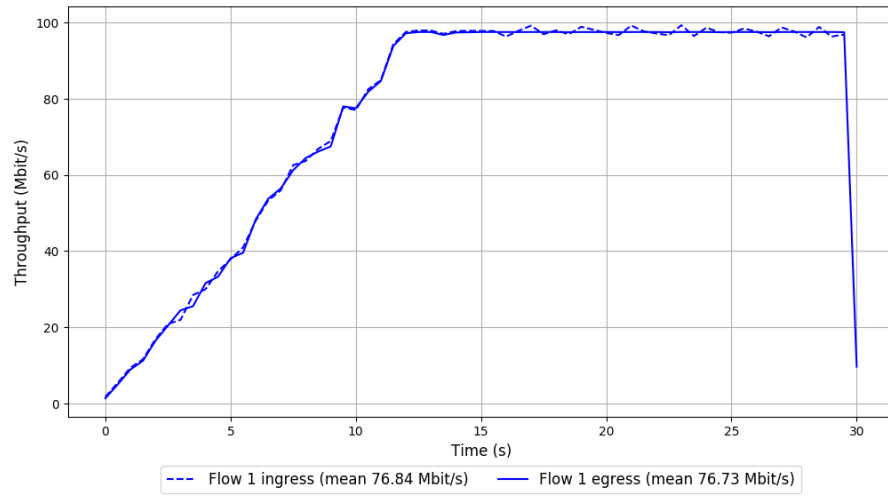


Run 9: Statistics of LEDBAT

Start at: 2017-11-16 02:18:39
End at: 2017-11-16 02:19:09
Local clock offset: 0.405 ms
Remote clock offset: -1.102 ms

Below is generated by plot.py at 2017-11-16 03:14:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 68.029 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 76.73 Mbit/s
95th percentile per-packet one-way delay: 68.029 ms
Loss rate: 0.04%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2017-11-16 02:40:04

End at: 2017-11-16 02:40:34

Local clock offset: 0.59 ms

Remote clock offset: -0.829 ms

Below is generated by plot.py at 2017-11-16 03:14:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 45.270 ms

Loss rate: 0.02%

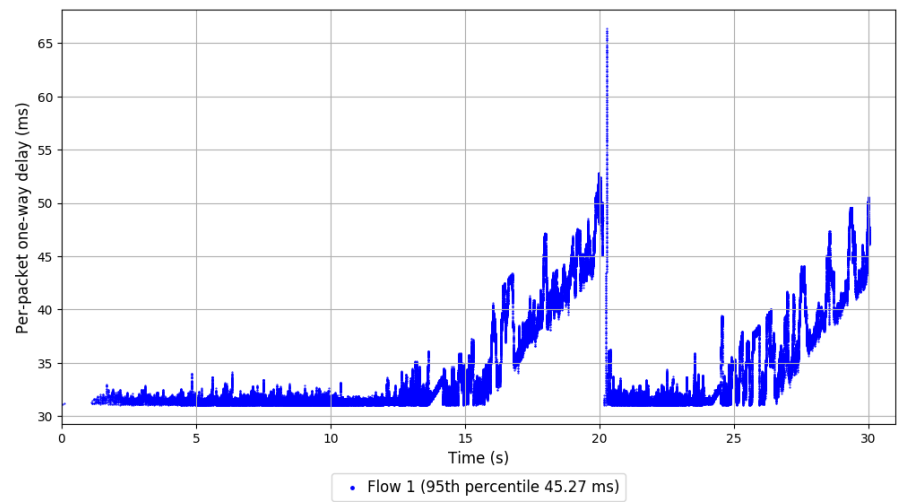
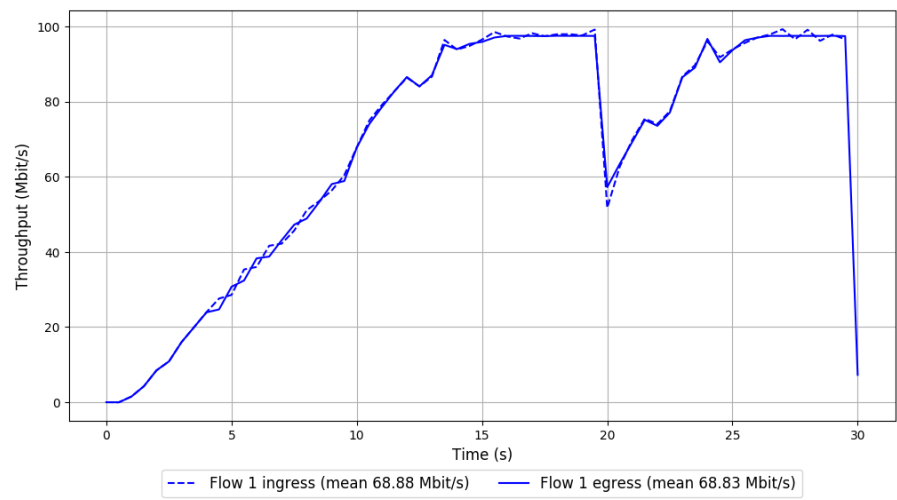
-- Flow 1:

Average throughput: 68.83 Mbit/s

95th percentile per-packet one-way delay: 45.270 ms

Loss rate: 0.02%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC

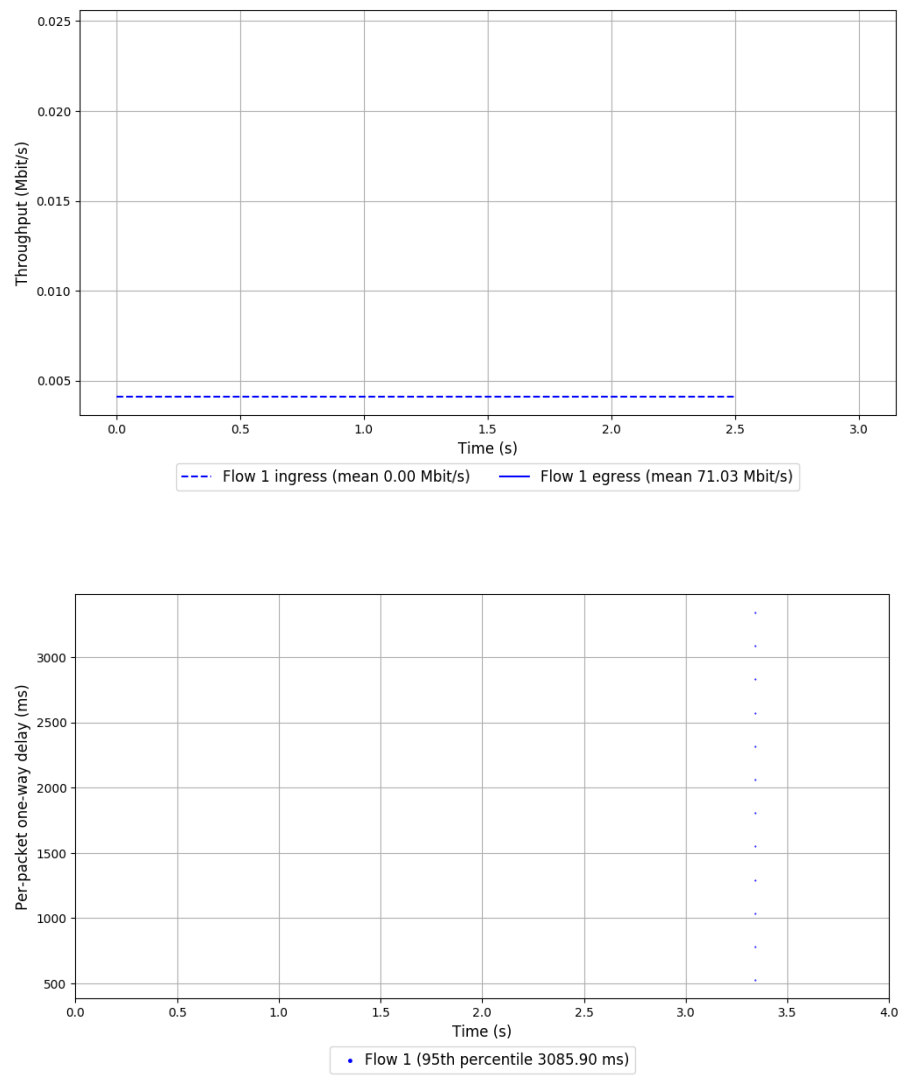
Start at: 2017-11-15 23:31:39

End at: 2017-11-15 23:32:09

Local clock offset: -0.649 ms

Remote clock offset: 0.751 ms

Run 1: Report of PCC — Data Link

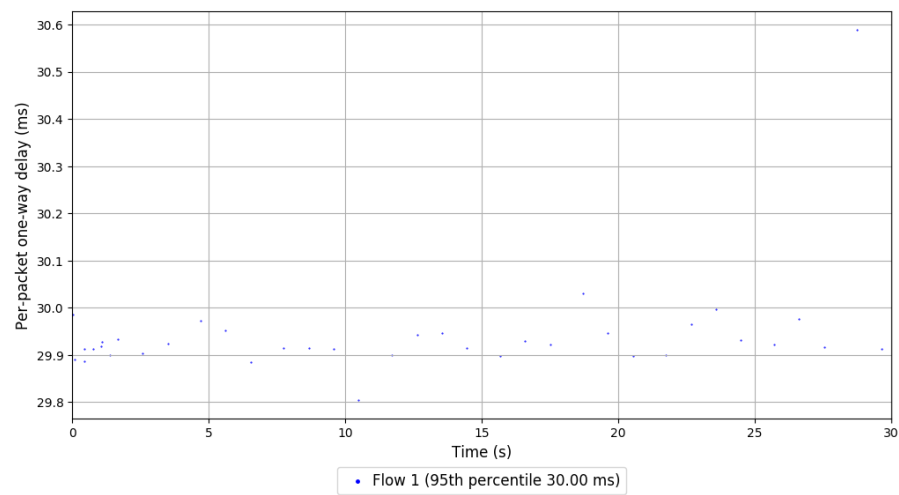
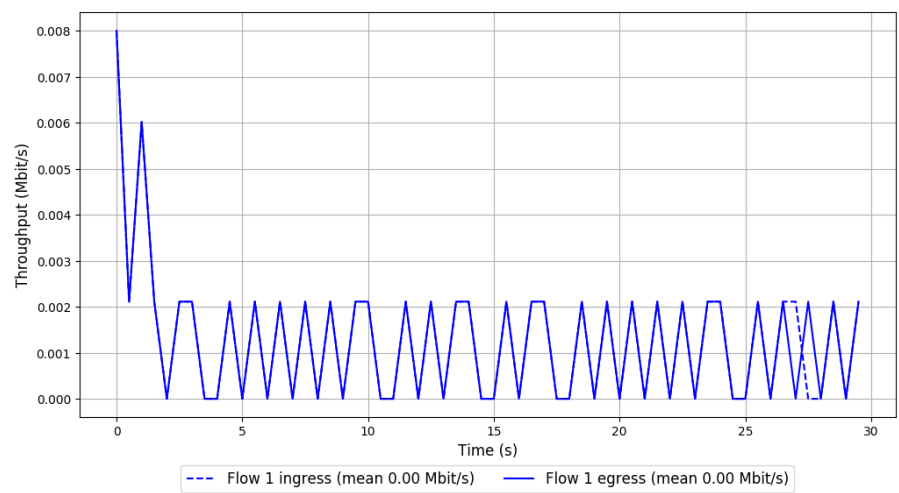


Run 2: Statistics of PCC

Start at: 2017-11-15 23:51:18
End at: 2017-11-15 23:51:48
Local clock offset: -0.429 ms
Remote clock offset: -0.161 ms

Below is generated by plot.py at 2017-11-16 03:14:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 29.997 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 29.997 ms
Loss rate: 0.00%

Run 2: Report of PCC — Data Link

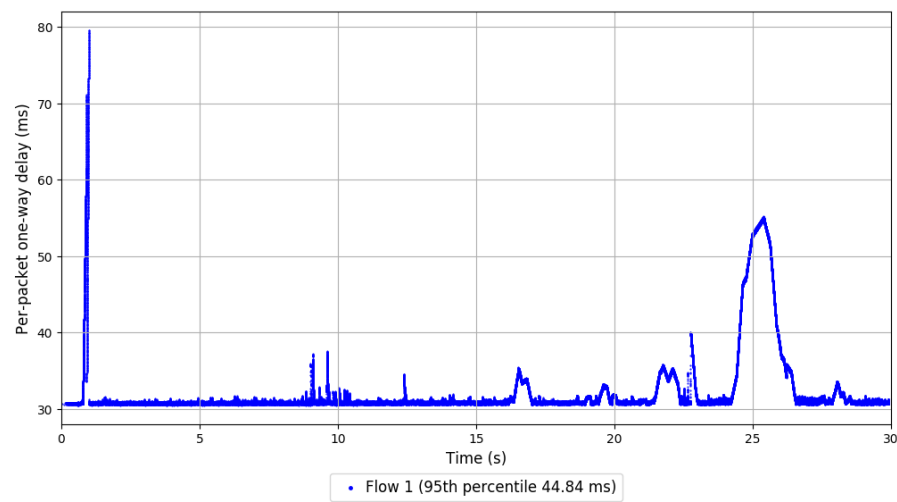
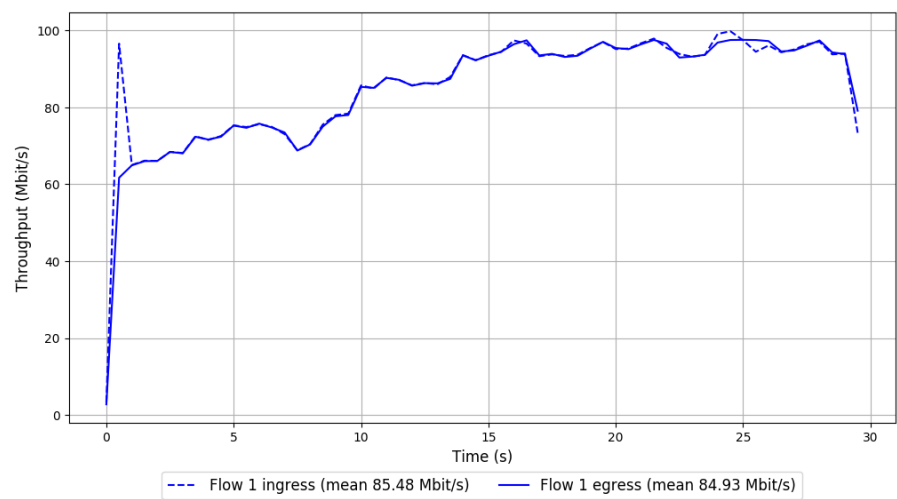


Run 3: Statistics of PCC

Start at: 2017-11-16 00:11:05
End at: 2017-11-16 00:11:35
Local clock offset: -0.315 ms
Remote clock offset: -0.408 ms

Below is generated by plot.py at 2017-11-16 03:15:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 44.842 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 84.93 Mbit/s
95th percentile per-packet one-way delay: 44.842 ms
Loss rate: 0.64%

Run 3: Report of PCC — Data Link



Run 4: Statistics of PCC

Start at: 2017-11-16 00:31:58

End at: 2017-11-16 00:32:28

Local clock offset: -0.526 ms

Remote clock offset: 0.15 ms

Below is generated by plot.py at 2017-11-16 03:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 38.634 ms

Loss rate: 0.00%

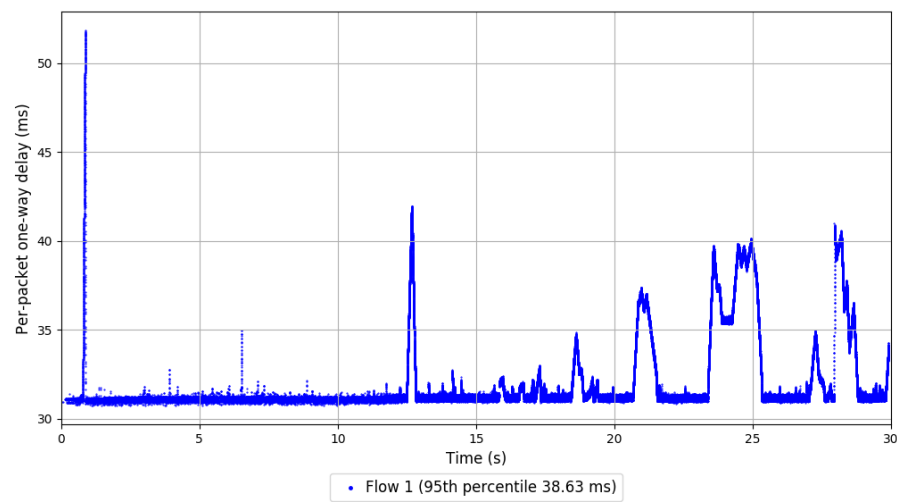
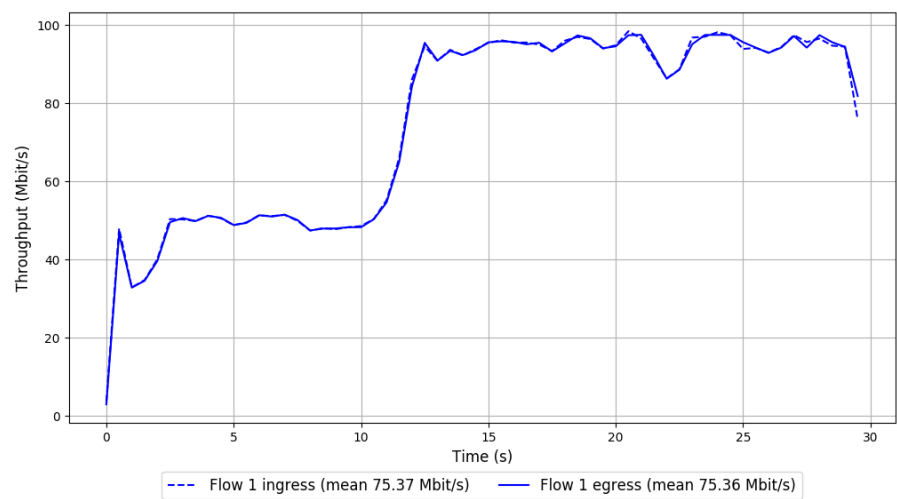
-- Flow 1:

Average throughput: 75.36 Mbit/s

95th percentile per-packet one-way delay: 38.634 ms

Loss rate: 0.00%

Run 4: Report of PCC — Data Link

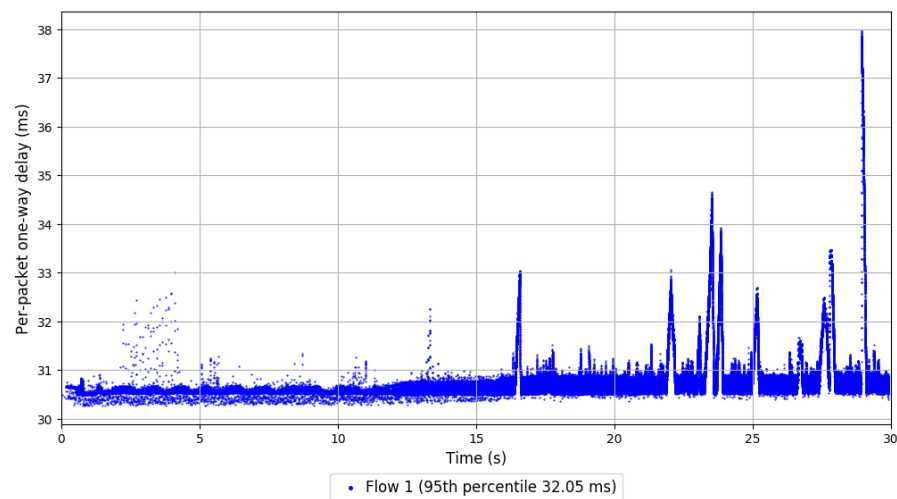
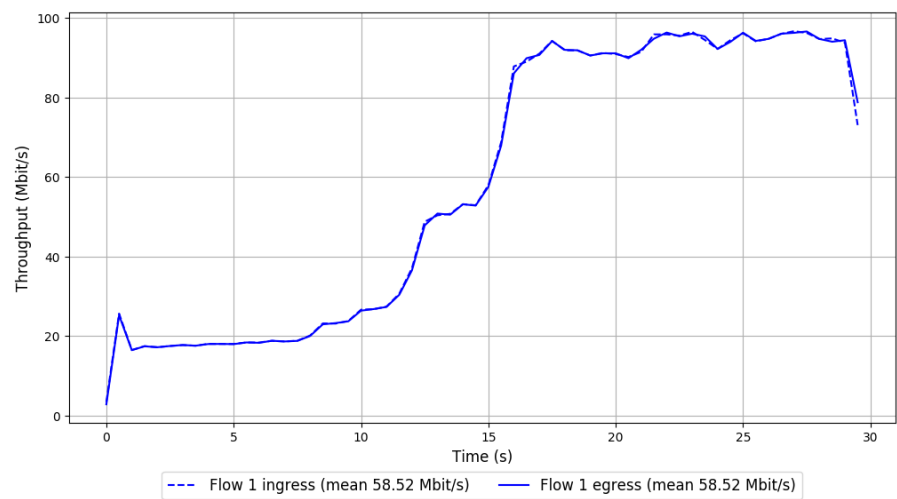


Run 5: Statistics of PCC

Start at: 2017-11-16 00:52:57
End at: 2017-11-16 00:53:27
Local clock offset: -0.625 ms
Remote clock offset: -0.984 ms

Below is generated by plot.py at 2017-11-16 03:15:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 32.047 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 58.52 Mbit/s
95th percentile per-packet one-way delay: 32.047 ms
Loss rate: 0.01%

Run 5: Report of PCC — Data Link

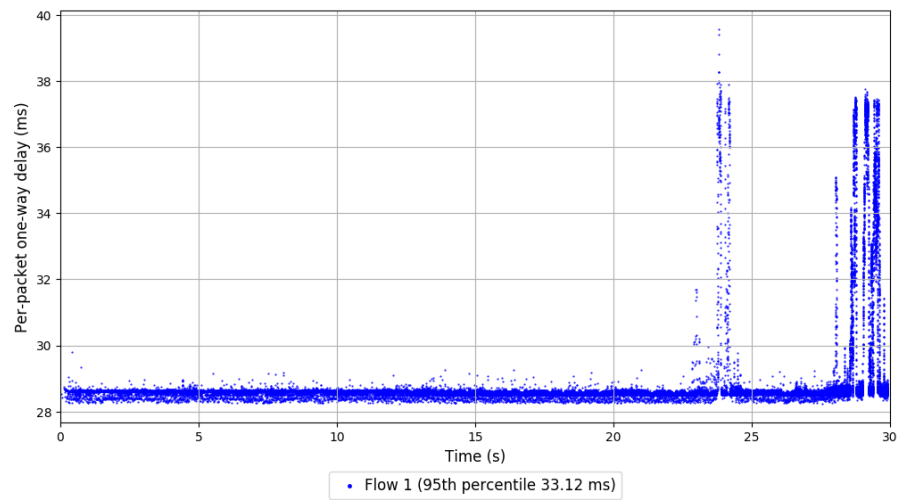
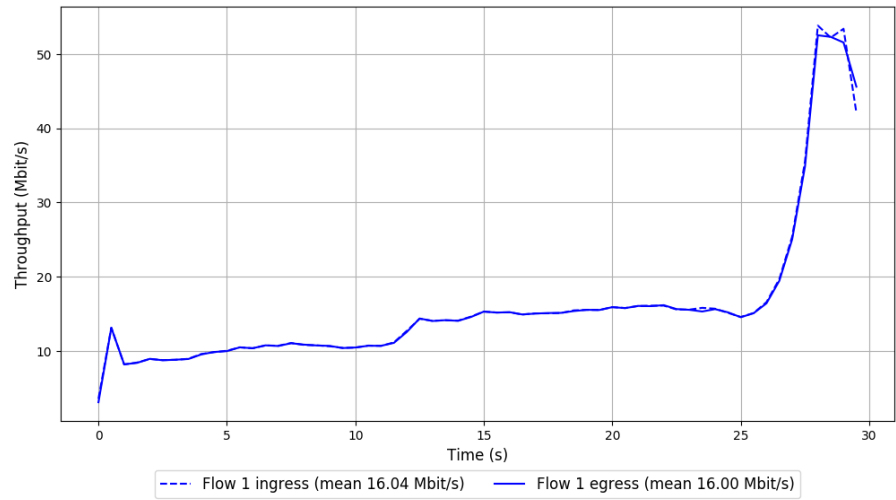


Run 6: Statistics of PCC

Start at: 2017-11-16 01:14:20
End at: 2017-11-16 01:14:50
Local clock offset: -0.844 ms
Remote clock offset: -3.176 ms

Below is generated by plot.py at 2017-11-16 03:15:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 33.120 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 16.00 Mbit/s
95th percentile per-packet one-way delay: 33.120 ms
Loss rate: 0.25%

Run 6: Report of PCC — Data Link

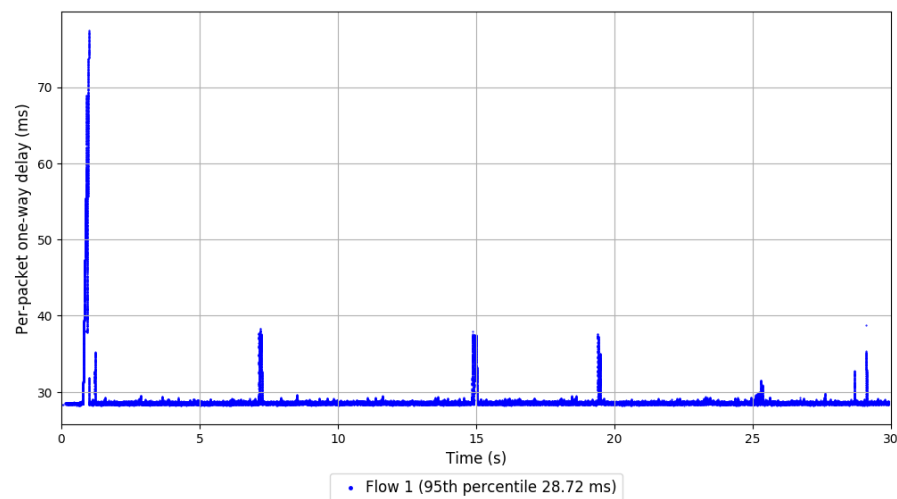
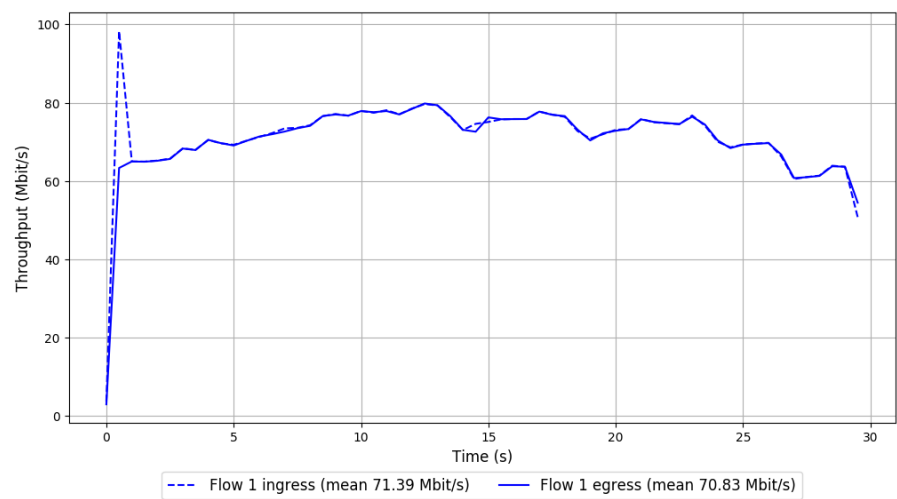


Run 7: Statistics of PCC

Start at: 2017-11-16 01:36:33
End at: 2017-11-16 01:37:03
Local clock offset: -0.78 ms
Remote clock offset: -3.131 ms

Below is generated by plot.py at 2017-11-16 03:15:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 70.83 Mbit/s
95th percentile per-packet one-way delay: 28.721 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 70.83 Mbit/s
95th percentile per-packet one-way delay: 28.721 ms
Loss rate: 0.79%

Run 7: Report of PCC — Data Link

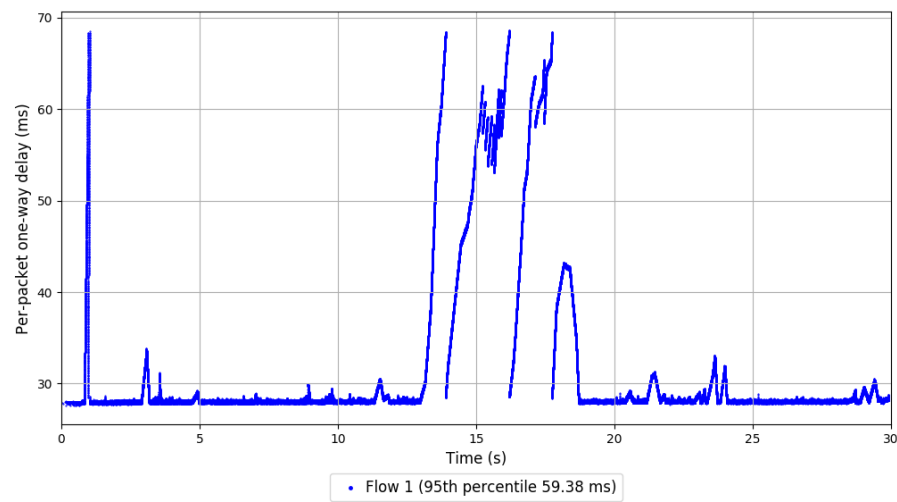
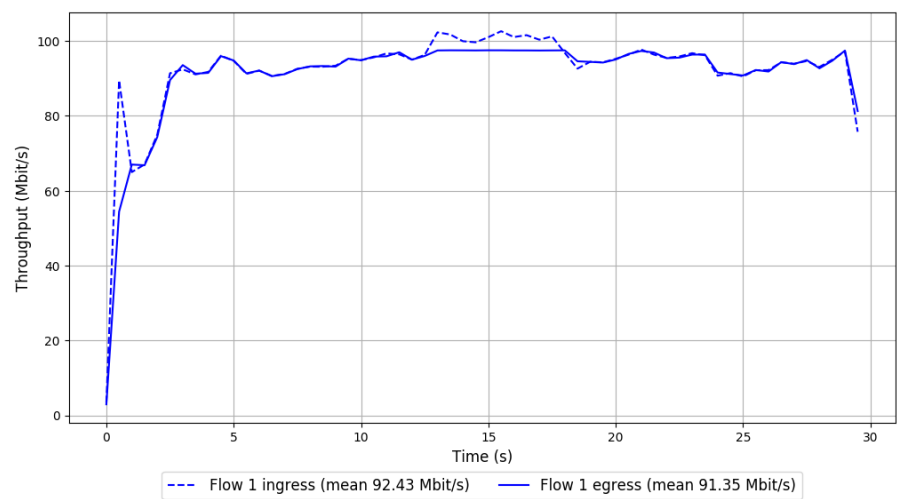


Run 8: Statistics of PCC

Start at: 2017-11-16 01:58:37
End at: 2017-11-16 01:59:07
Local clock offset: 0.035 ms
Remote clock offset: -3.323 ms

Below is generated by plot.py at 2017-11-16 03:15:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 59.379 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 91.35 Mbit/s
95th percentile per-packet one-way delay: 59.379 ms
Loss rate: 1.16%

Run 8: Report of PCC — Data Link

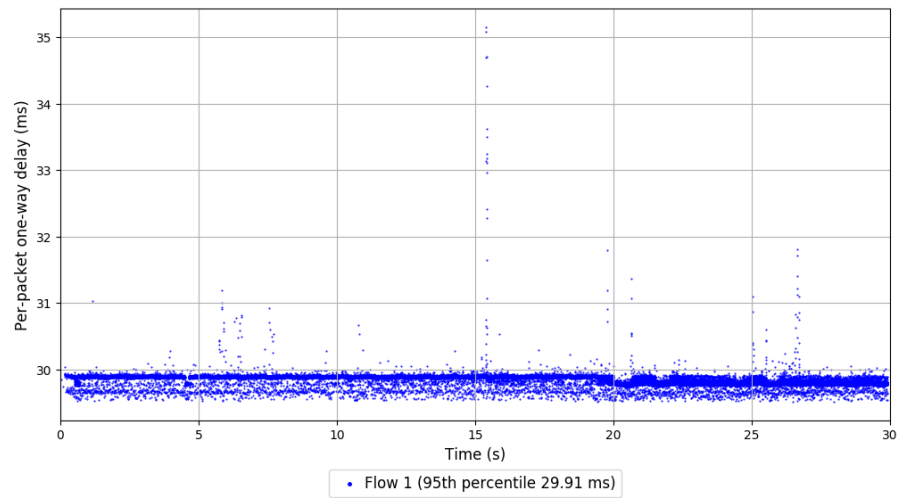
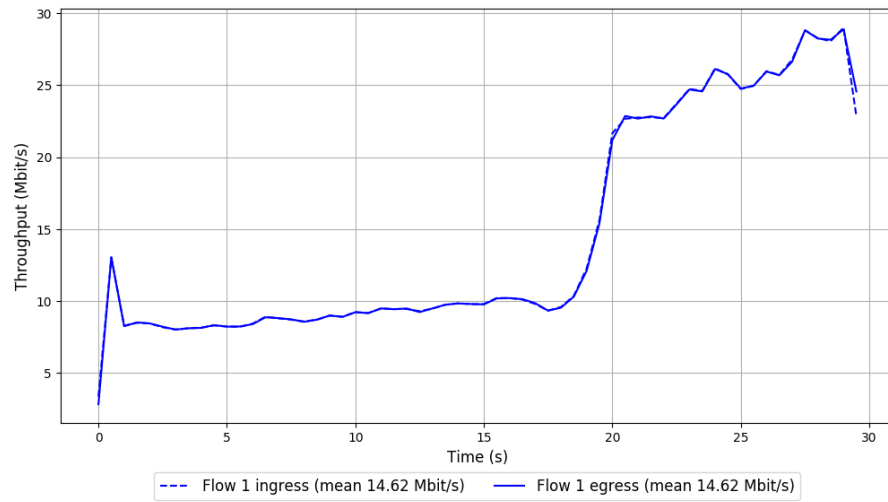


Run 9: Statistics of PCC

Start at: 2017-11-16 02:20:18
End at: 2017-11-16 02:20:48
Local clock offset: 0.41 ms
Remote clock offset: -1.656 ms

Below is generated by plot.py at 2017-11-16 03:15:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 29.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 29.911 ms
Loss rate: 0.00%

Run 9: Report of PCC — Data Link

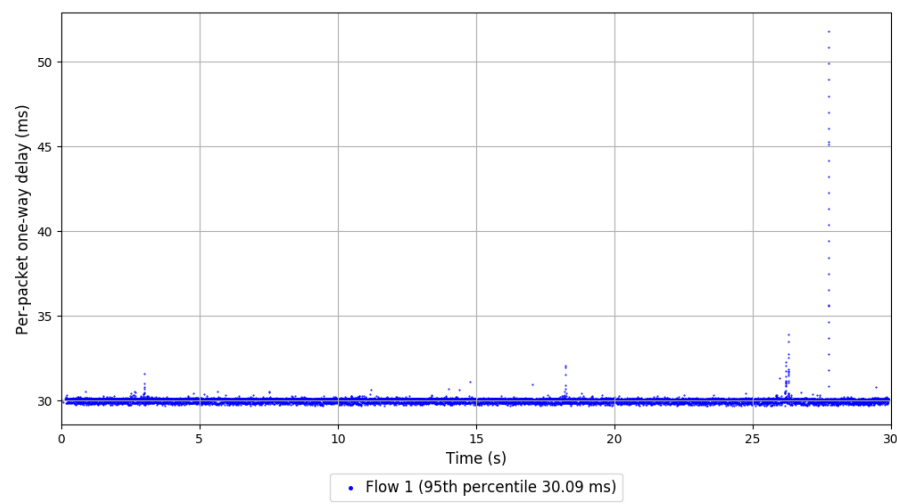
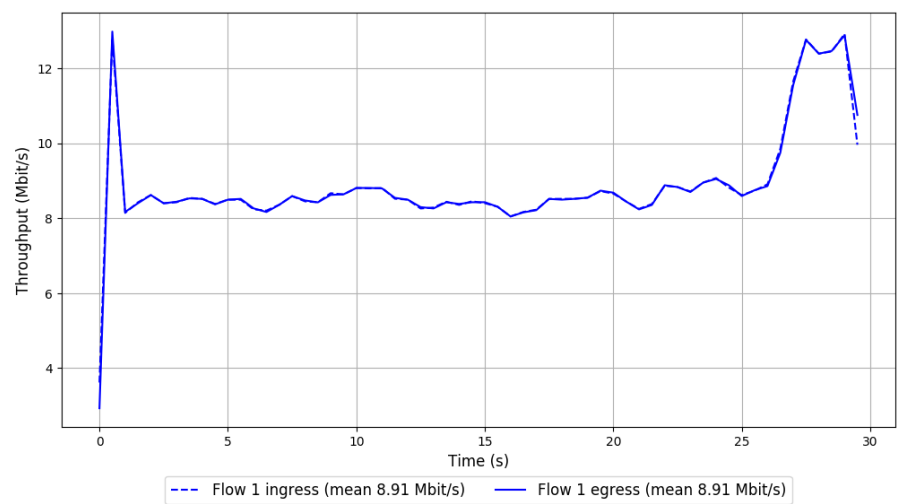


Run 10: Statistics of PCC

Start at: 2017-11-16 02:42:09
End at: 2017-11-16 02:42:39
Local clock offset: 0.575 ms
Remote clock offset: -1.216 ms

Below is generated by plot.py at 2017-11-16 03:15:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 30.087 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 8.91 Mbit/s
95th percentile per-packet one-way delay: 30.087 ms
Loss rate: 0.00%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

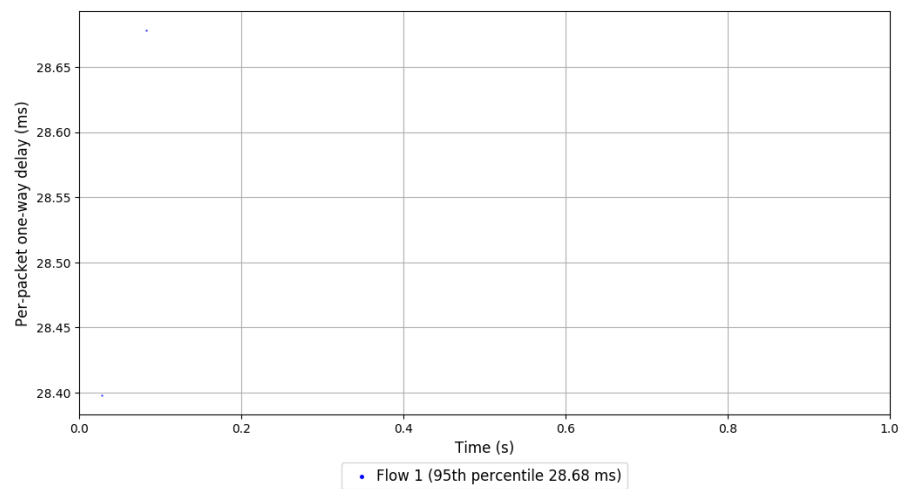
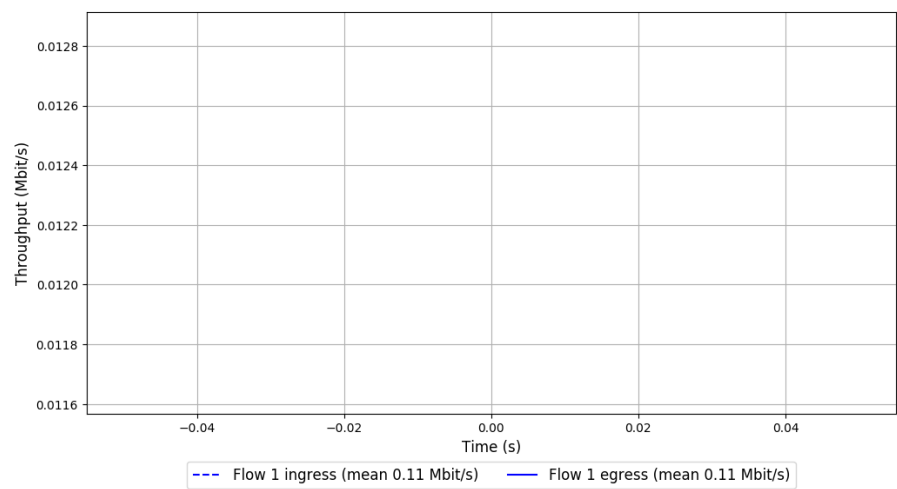
Start at: 2017-11-15 23:28:58

End at: 2017-11-15 23:29:28

Local clock offset: -0.719 ms

Remote clock offset: -1.806 ms

Run 1: Report of QUIC Cubic — Data Link

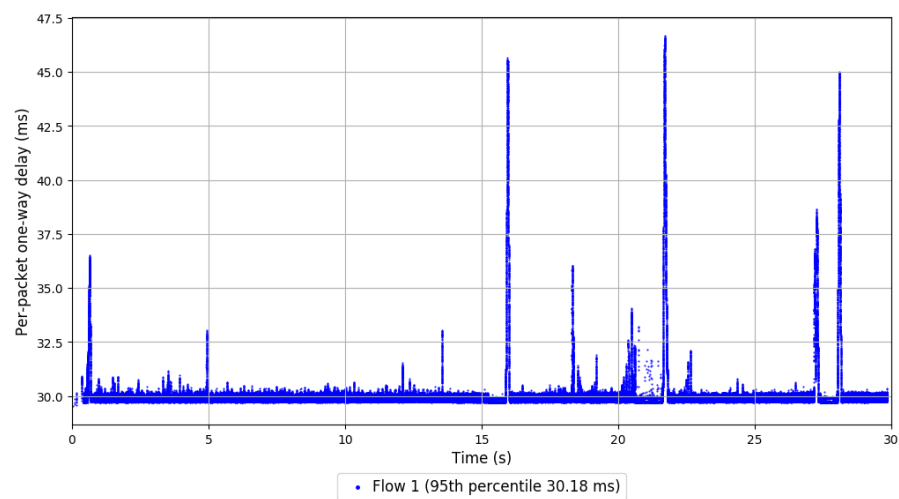
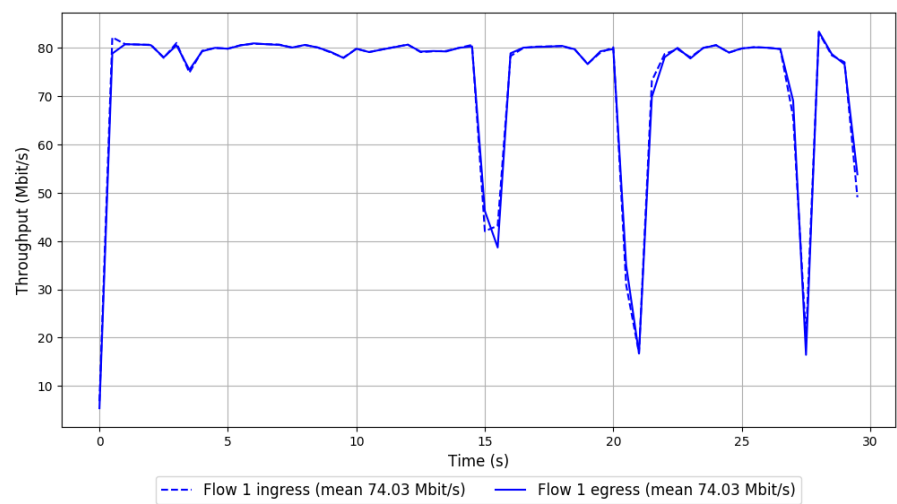


Run 2: Statistics of QUIC Cubic

Start at: 2017-11-15 23:48:33
End at: 2017-11-15 23:49:03
Local clock offset: -0.353 ms
Remote clock offset: -0.191 ms

Below is generated by plot.py at 2017-11-16 03:16:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.03 Mbit/s
95th percentile per-packet one-way delay: 30.179 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 74.03 Mbit/s
95th percentile per-packet one-way delay: 30.179 ms
Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link

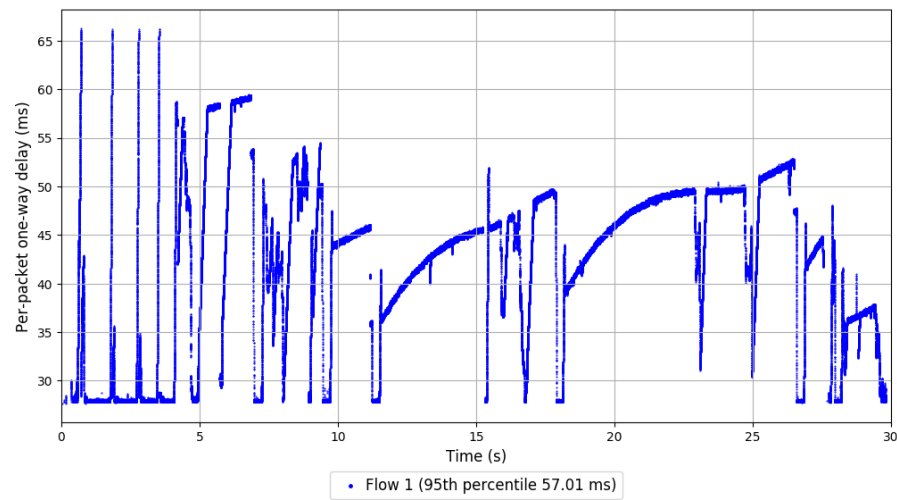
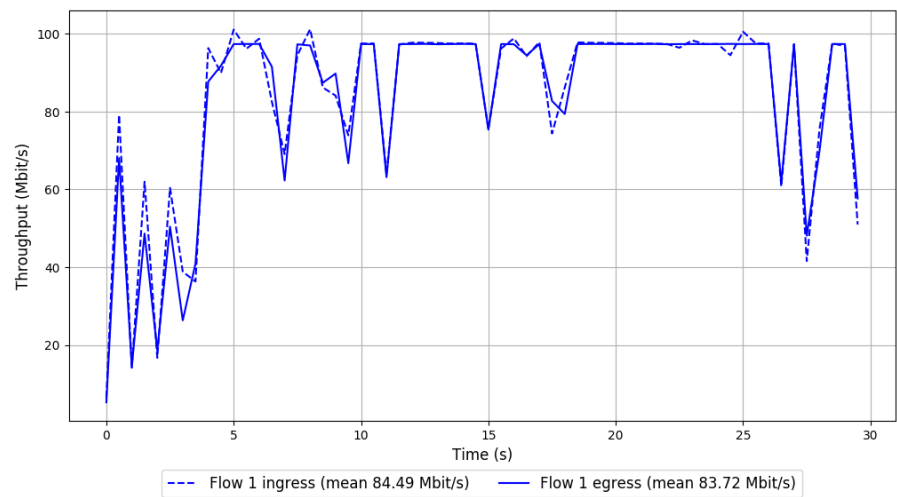


Run 3: Statistics of QUIC Cubic

Start at: 2017-11-16 00:08:17
End at: 2017-11-16 00:08:47
Local clock offset: -0.285 ms
Remote clock offset: -2.522 ms

Below is generated by plot.py at 2017-11-16 03:16:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 57.010 ms
Loss rate: 0.91%
-- Flow 1:
Average throughput: 83.72 Mbit/s
95th percentile per-packet one-way delay: 57.010 ms
Loss rate: 0.91%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-11-16 00:29:04

End at: 2017-11-16 00:29:34

Local clock offset: -0.502 ms

Remote clock offset: -2.449 ms

Below is generated by plot.py at 2017-11-16 03:16:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 61.019 ms

Loss rate: 0.42%

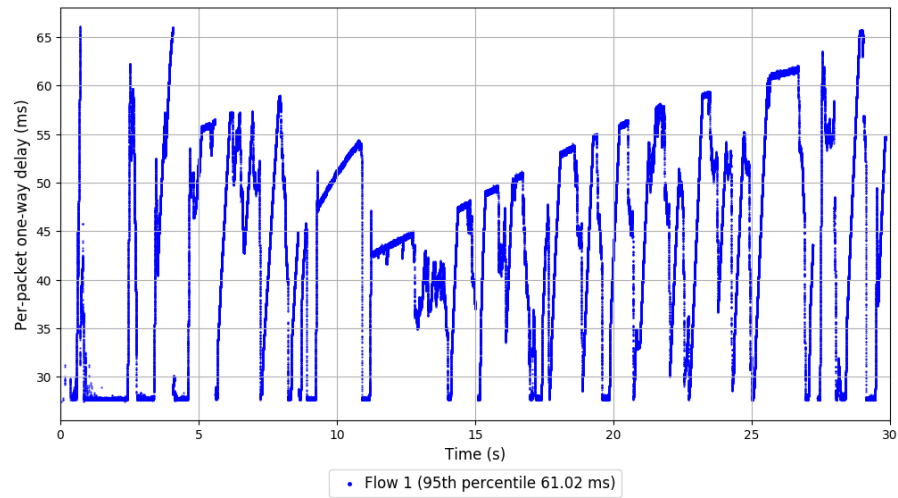
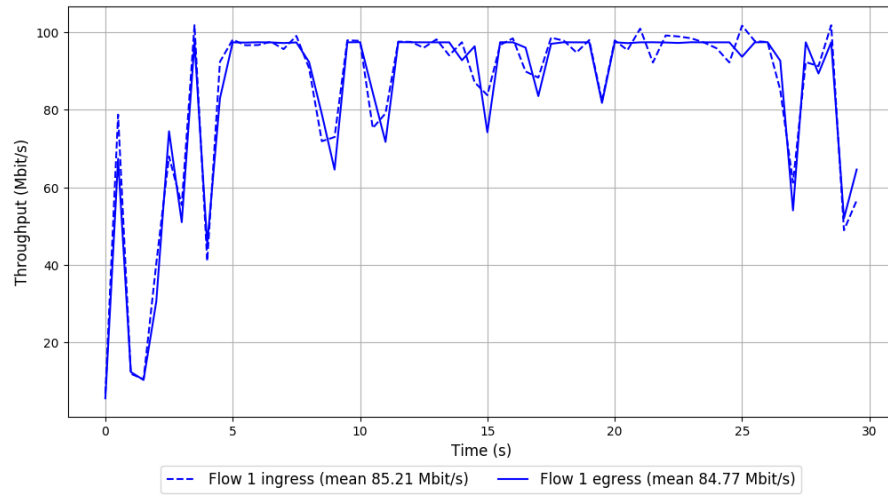
-- Flow 1:

Average throughput: 84.77 Mbit/s

95th percentile per-packet one-way delay: 61.019 ms

Loss rate: 0.42%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-11-16 00:49:42

End at: 2017-11-16 00:50:12

Local clock offset: -0.608 ms

Remote clock offset: -0.867 ms

Below is generated by plot.py at 2017-11-16 03:16:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 30.269 ms

Loss rate: 0.01%

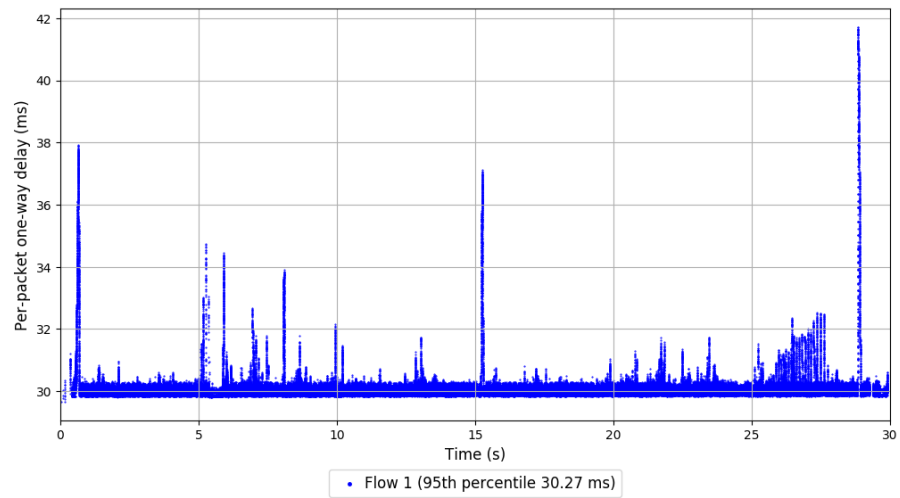
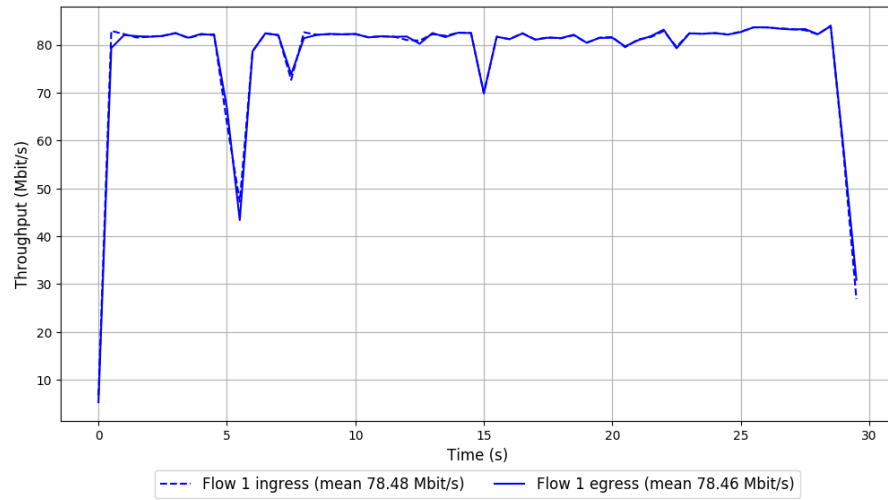
-- Flow 1:

Average throughput: 78.46 Mbit/s

95th percentile per-packet one-way delay: 30.269 ms

Loss rate: 0.01%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

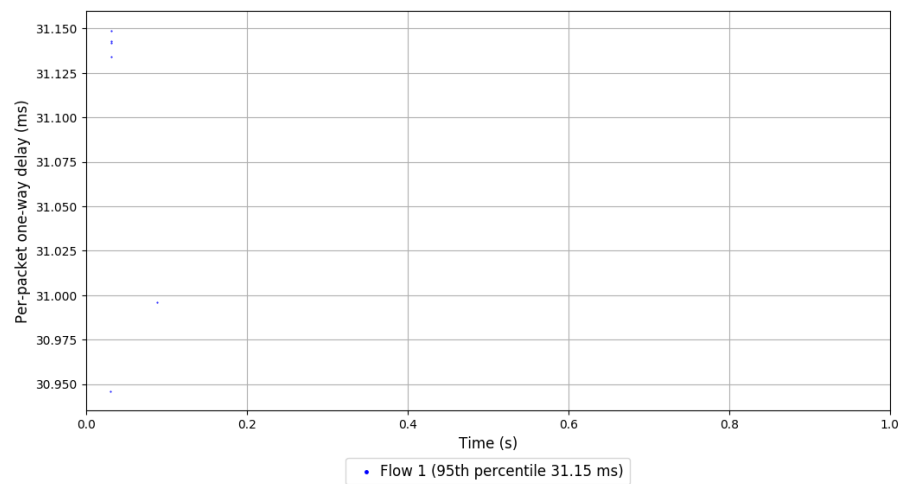
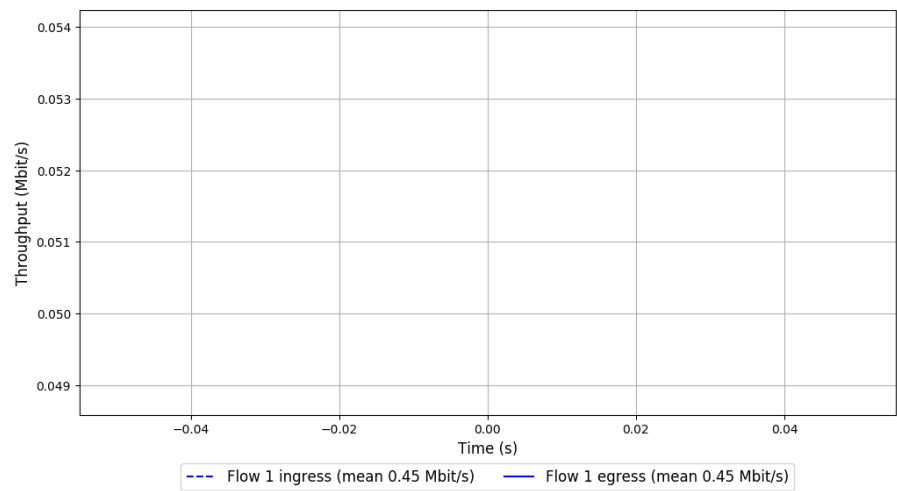
Start at: 2017-11-16 01:11:26

End at: 2017-11-16 01:11:56

Local clock offset: -0.825 ms

Remote clock offset: -0.694 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2017-11-16 01:33:14

End at: 2017-11-16 01:33:44

Local clock offset: -0.834 ms

Remote clock offset: -1.015 ms

Below is generated by plot.py at 2017-11-16 03:16:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 40.552 ms

Loss rate: 0.22%

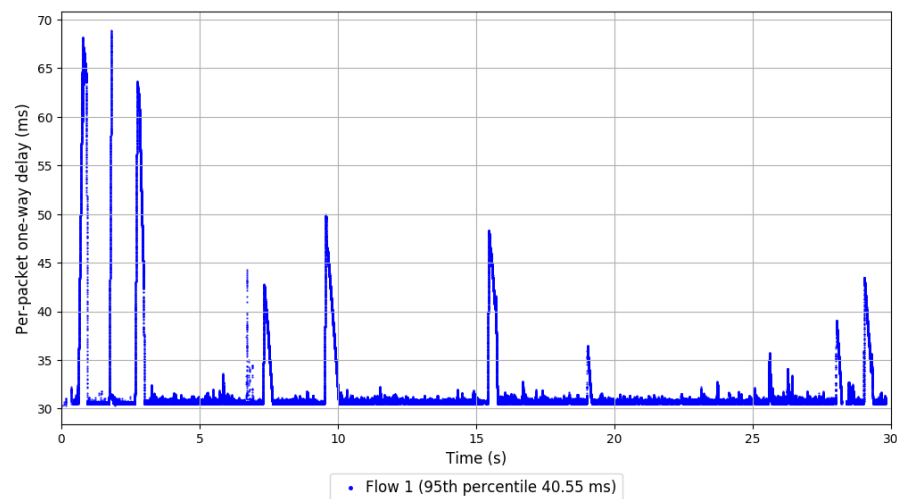
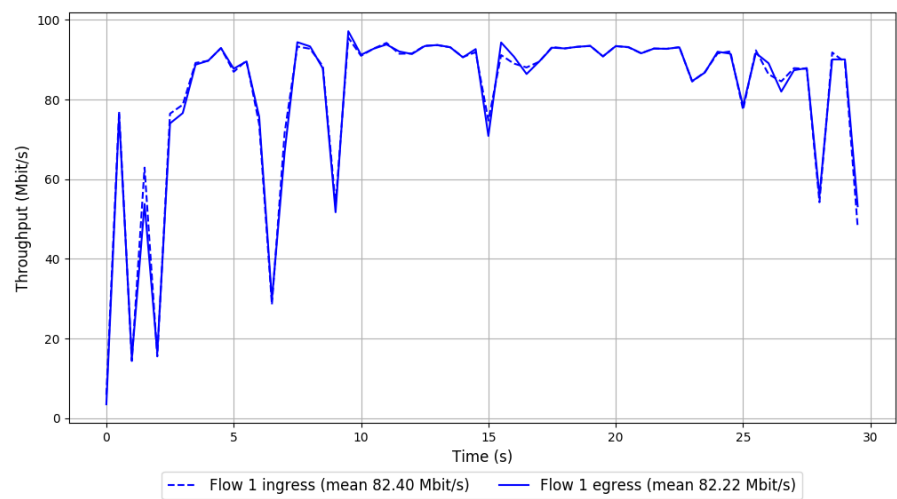
-- Flow 1:

Average throughput: 82.22 Mbit/s

95th percentile per-packet one-way delay: 40.552 ms

Loss rate: 0.22%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

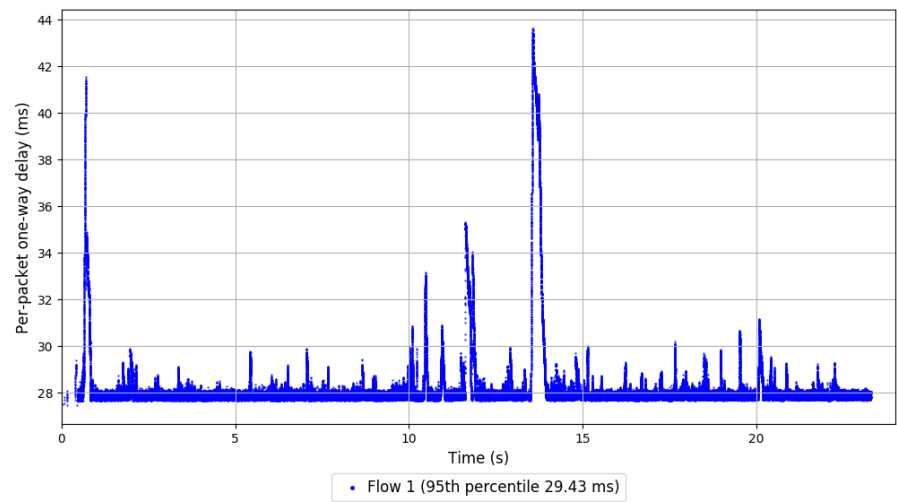
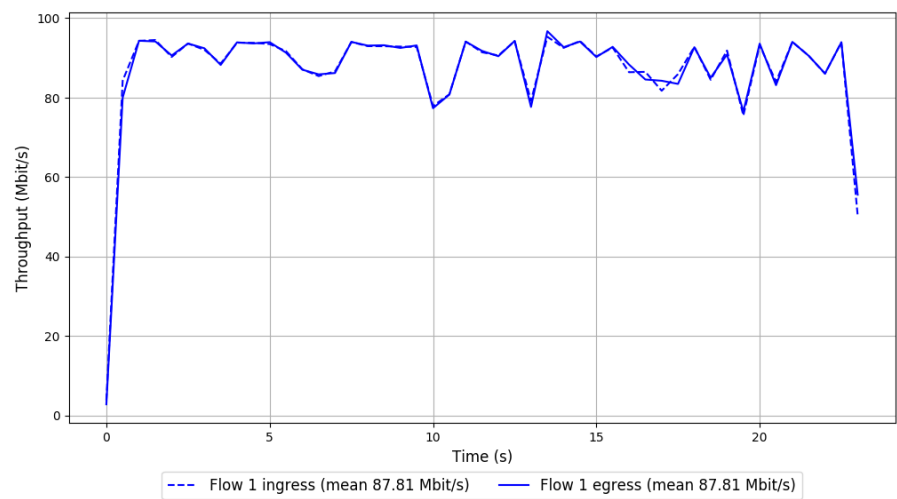
Start at: 2017-11-16 01:55:18

End at: 2017-11-16 01:55:48

Local clock offset: 0.036 ms

Remote clock offset: -3.276 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-11-16 02:17:03

End at: 2017-11-16 02:17:33

Local clock offset: 0.365 ms

Remote clock offset: -1.663 ms

Below is generated by plot.py at 2017-11-16 03:16:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 56.191 ms

Loss rate: 0.84%

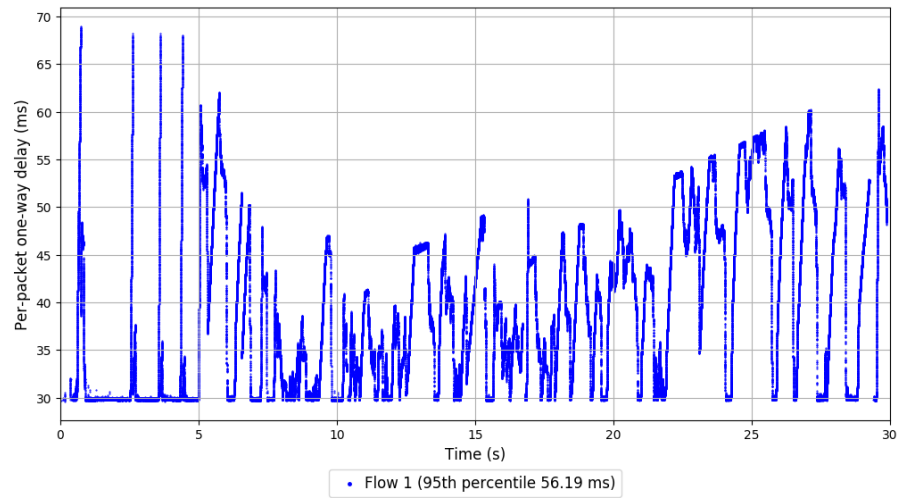
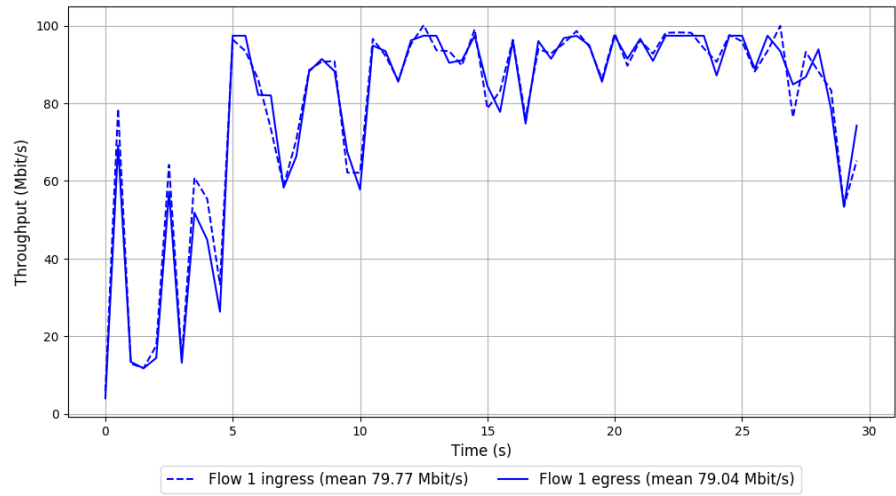
-- Flow 1:

Average throughput: 79.04 Mbit/s

95th percentile per-packet one-way delay: 56.191 ms

Loss rate: 0.84%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-11-16 02:38:13

End at: 2017-11-16 02:38:43

Local clock offset: 0.606 ms

Remote clock offset: -1.376 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.15 Mbit/s

95th percentile per-packet one-way delay: 59.361 ms

Loss rate: 0.96%

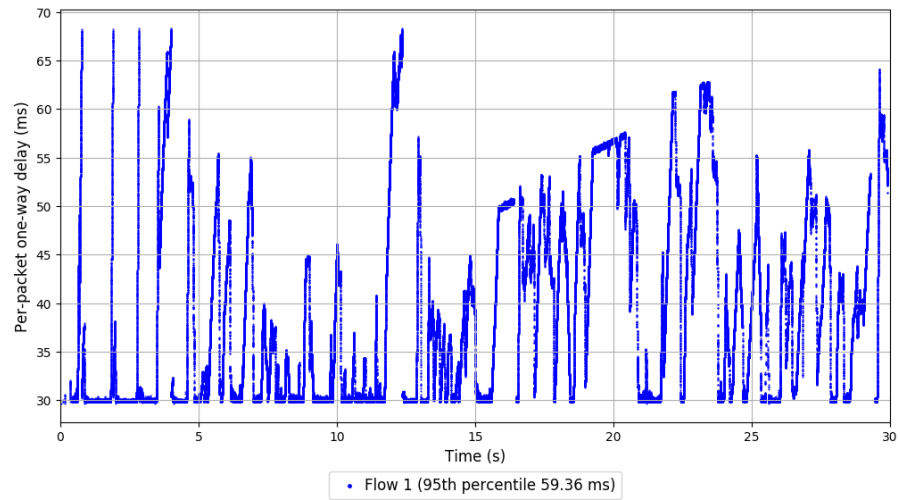
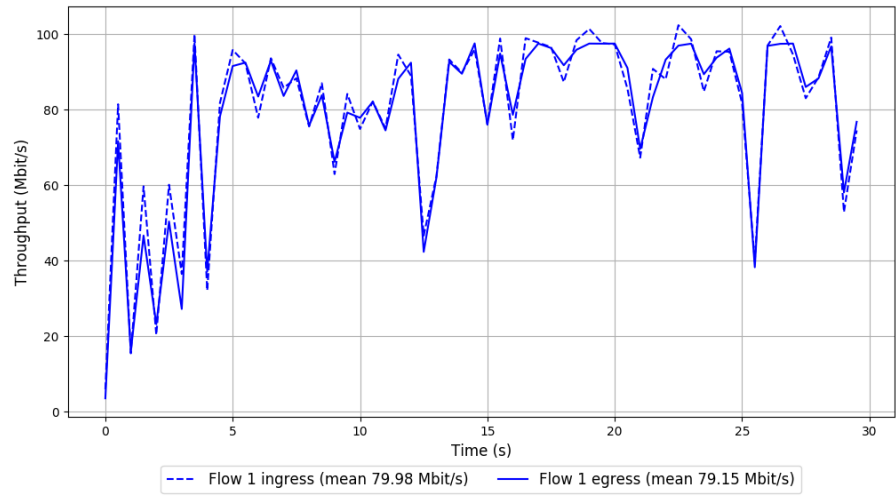
-- Flow 1:

Average throughput: 79.15 Mbit/s

95th percentile per-packet one-way delay: 59.361 ms

Loss rate: 0.96%

Run 10: Report of QUIC Cubic — Data Link

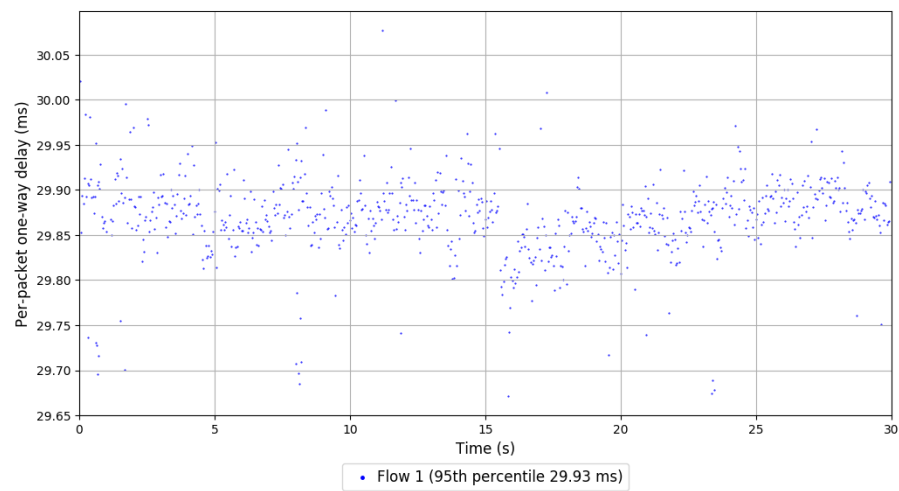
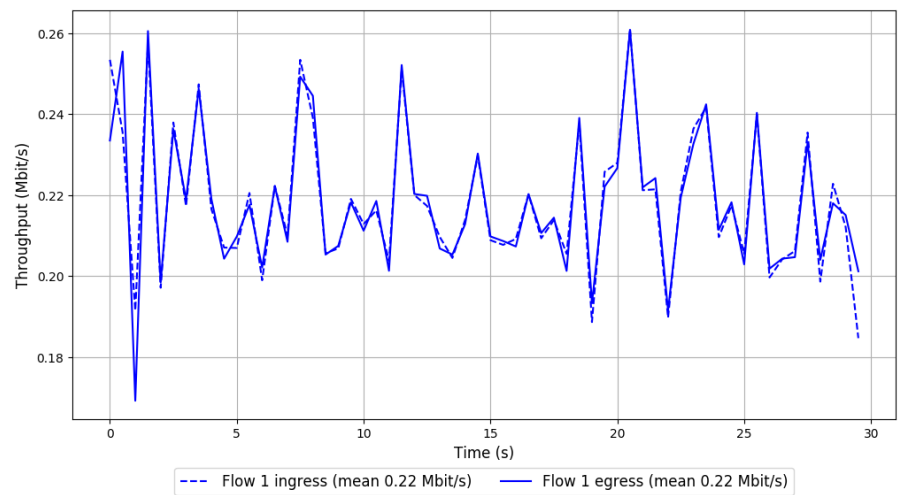


```
Run 1: Statistics of SCReAM

Start at: 2017-11-15 23:32:55
End at: 2017-11-15 23:33:25
Local clock offset: -0.663 ms
Remote clock offset: 0.21 ms

# Below is generated by plot.py at 2017-11-16 03:17:22
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 29.929 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

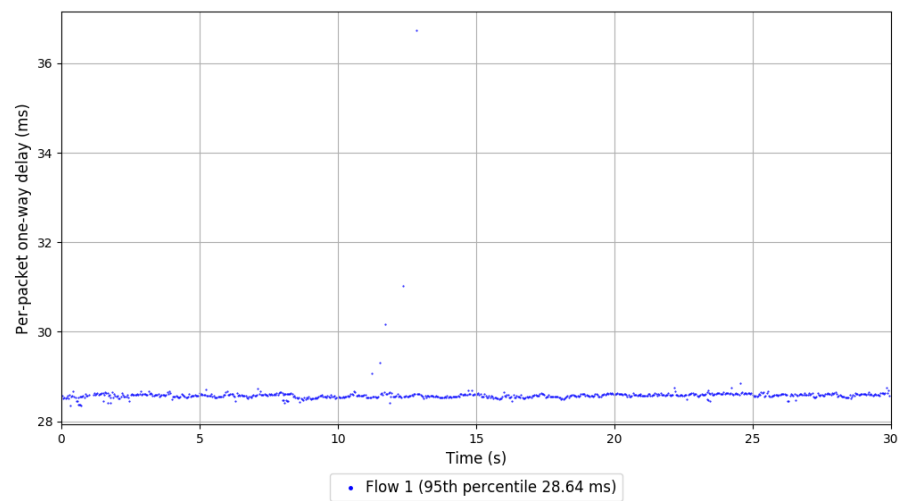
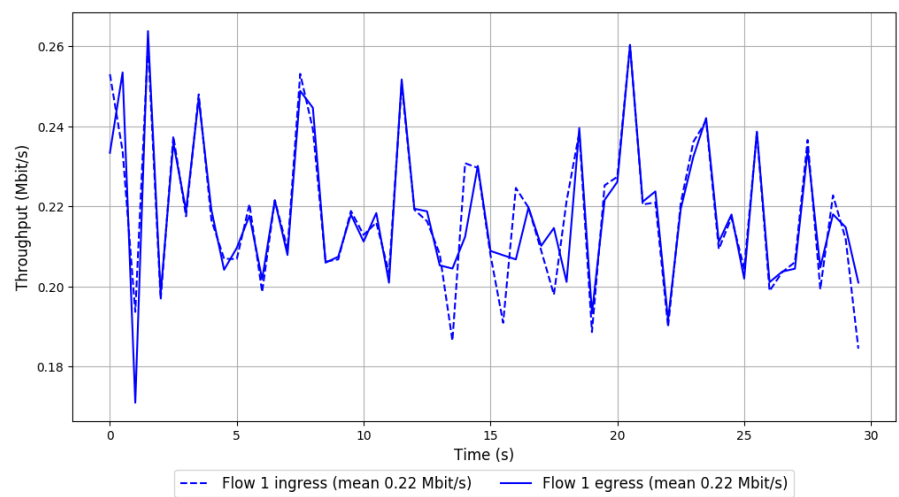


Run 2: Statistics of SCReAM

Start at: 2017-11-15 23:52:34
End at: 2017-11-15 23:53:04
Local clock offset: -0.416 ms
Remote clock offset: -2.388 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.641 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.641 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-11-16 00:12:26

End at: 2017-11-16 00:12:56

Local clock offset: -0.246 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.598 ms

Loss rate: 0.00%

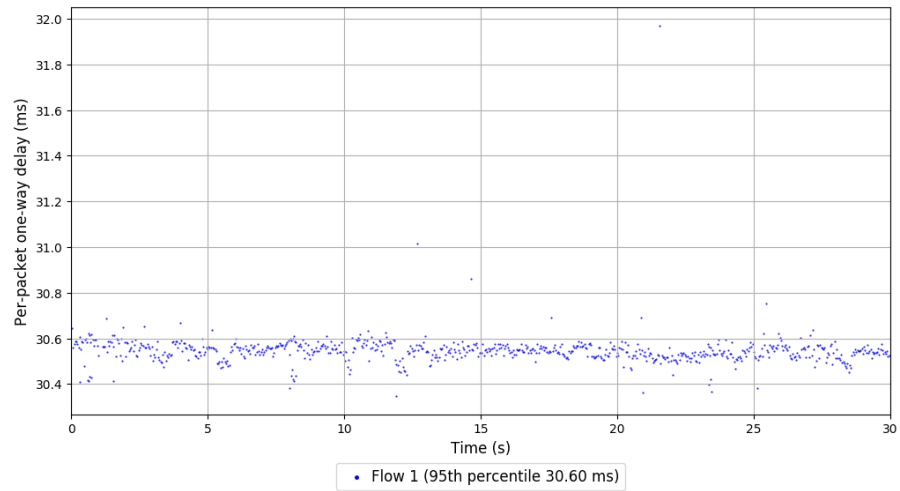
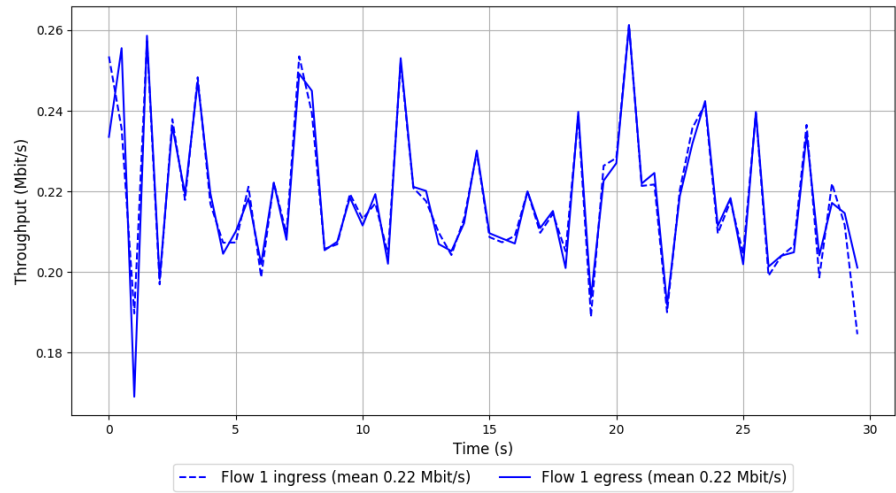
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.598 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

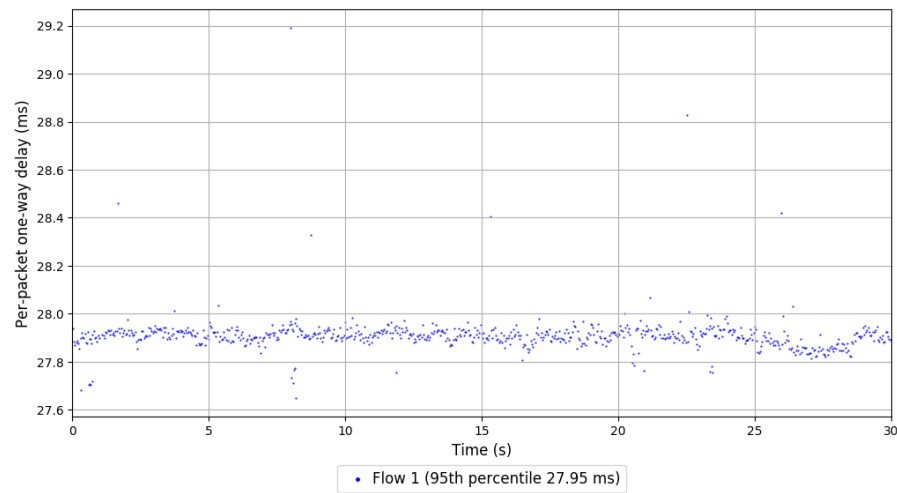
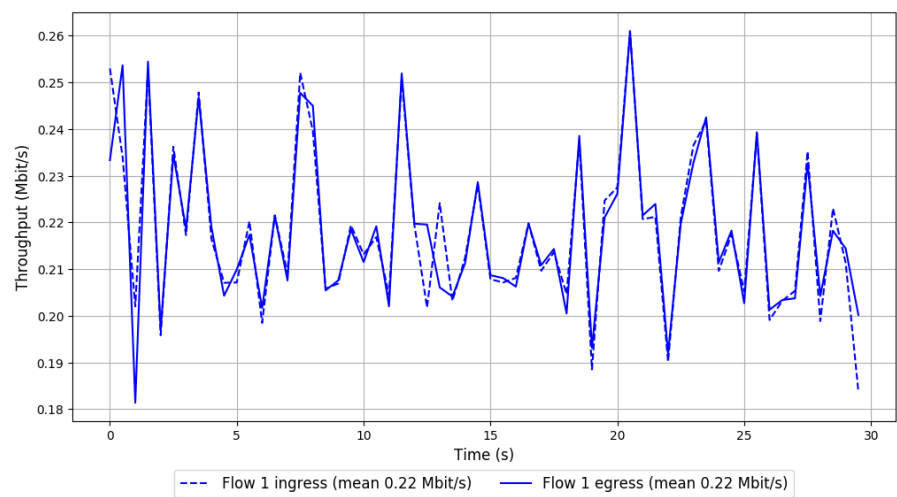


Run 4: Statistics of SCReAM

Start at: 2017-11-16 00:33:22
End at: 2017-11-16 00:33:52
Local clock offset: -0.561 ms
Remote clock offset: -2.407 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.955 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 27.955 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

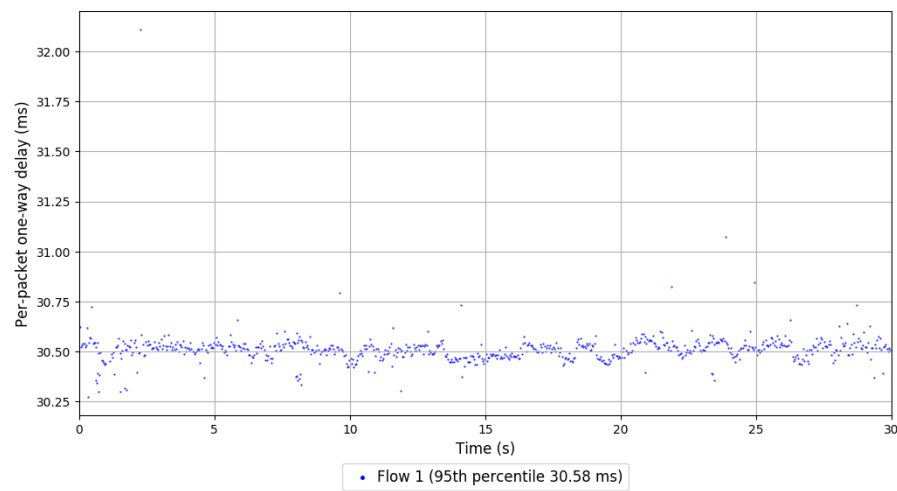
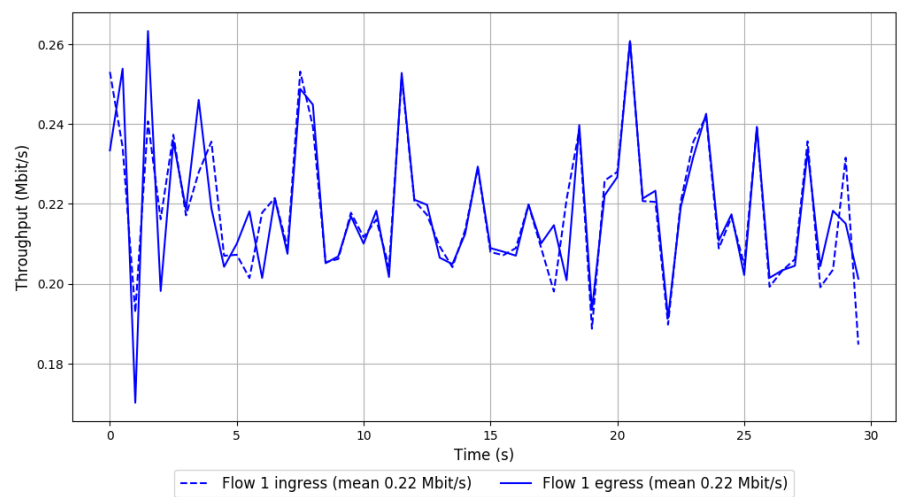


Run 5: Statistics of SCReAM

Start at: 2017-11-16 00:54:20
End at: 2017-11-16 00:54:50
Local clock offset: -0.629 ms
Remote clock offset: -0.462 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

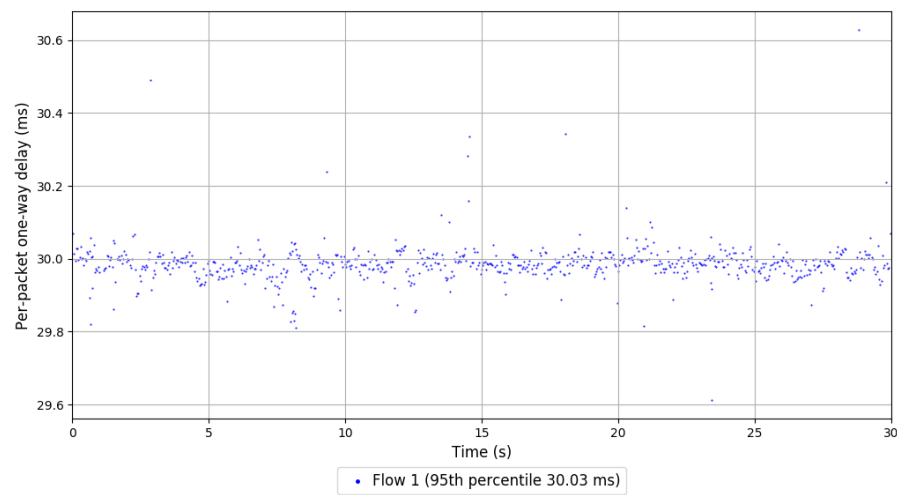
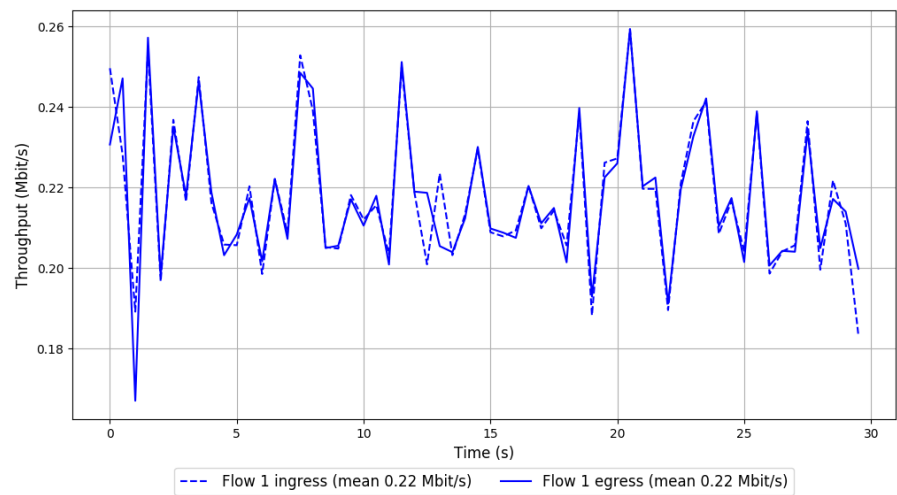


Run 6: Statistics of SCReAM

Start at: 2017-11-16 01:15:41
End at: 2017-11-16 01:16:11
Local clock offset: -0.826 ms
Remote clock offset: -1.125 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.034 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.034 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

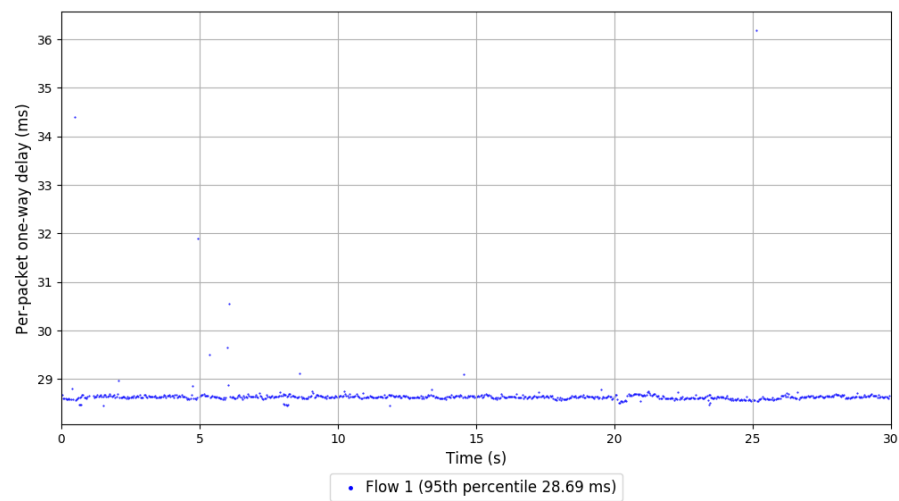
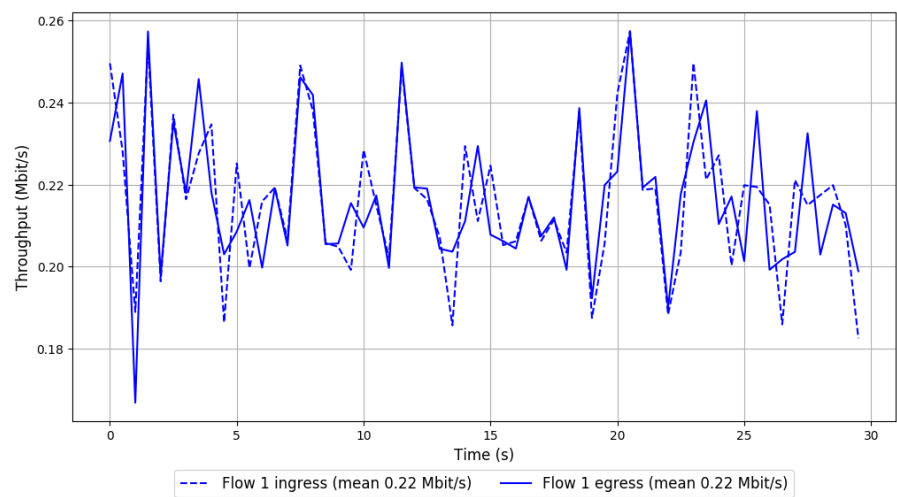


Run 7: Statistics of SCReAM

Start at: 2017-11-16 01:38:15
End at: 2017-11-16 01:38:45
Local clock offset: -0.621 ms
Remote clock offset: -2.928 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.688 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.688 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

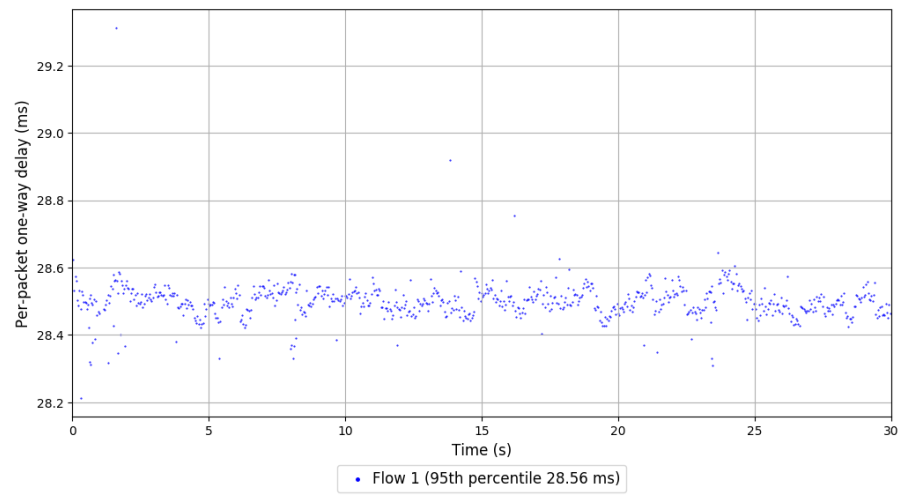
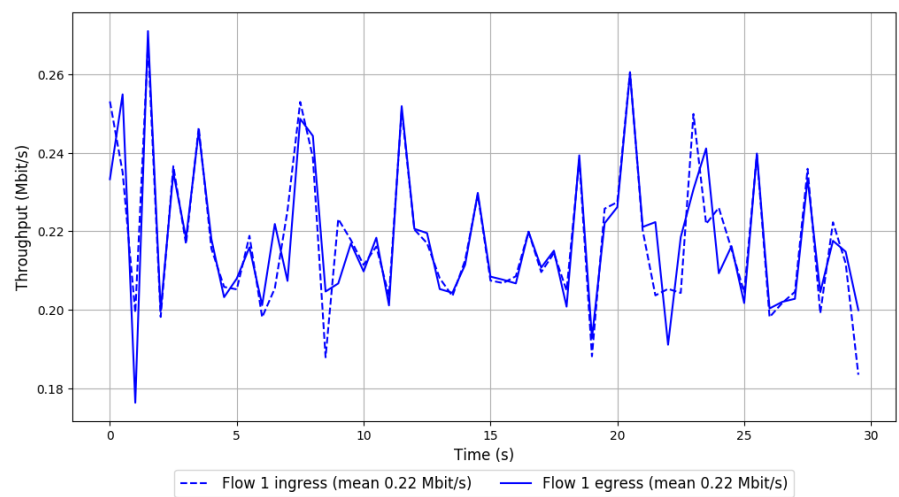


Run 8: Statistics of SCReAM

Start at: 2017-11-16 02:00:08
End at: 2017-11-16 02:00:38
Local clock offset: 0.187 ms
Remote clock offset: -3.408 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 28.563 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

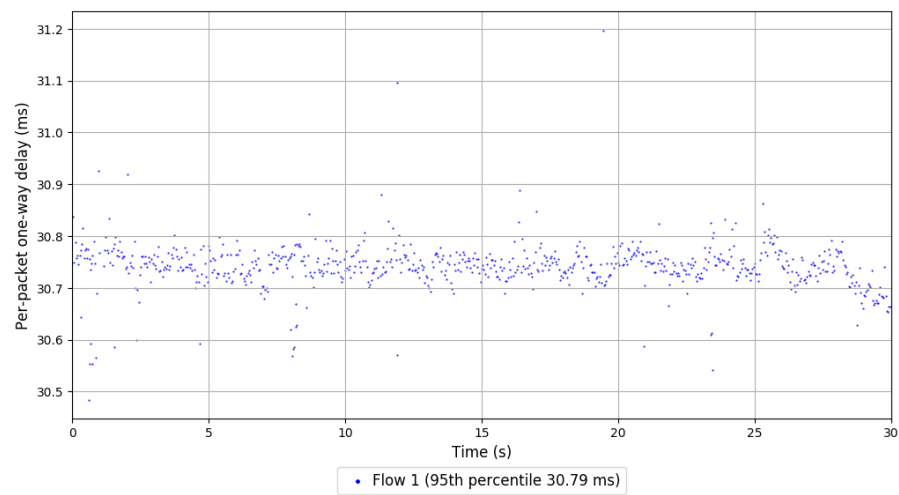
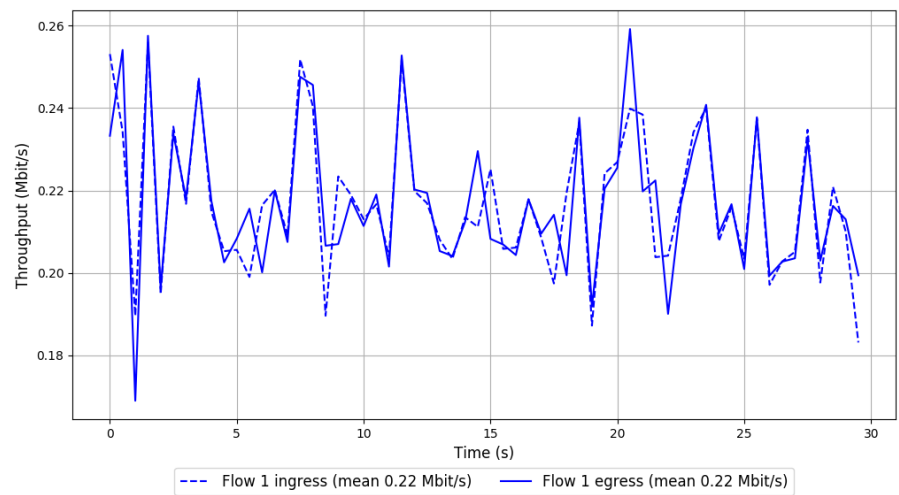


Run 9: Statistics of SCReAM

Start at: 2017-11-16 02:21:39
End at: 2017-11-16 02:22:09
Local clock offset: 0.435 ms
Remote clock offset: -1.484 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.791 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 30.791 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2017-11-16 02:43:29

End at: 2017-11-16 02:43:59

Local clock offset: 0.567 ms

Remote clock offset: -1.294 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.013 ms

Loss rate: 0.00%

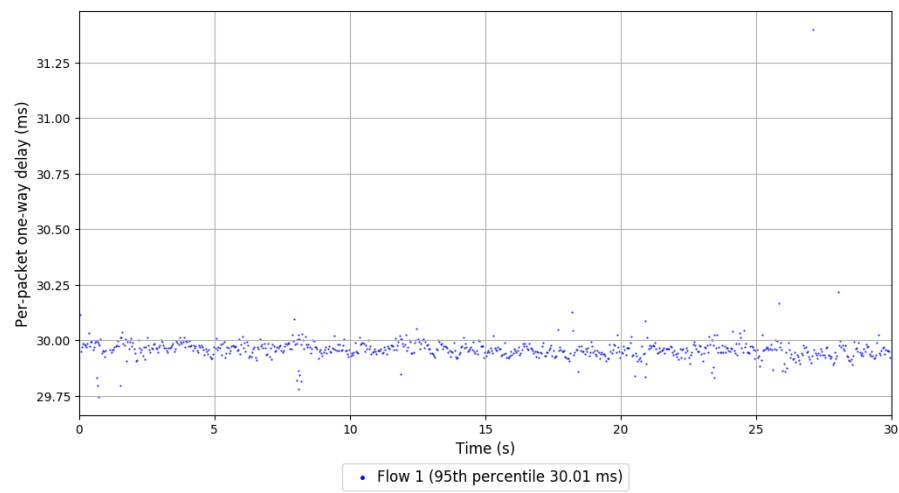
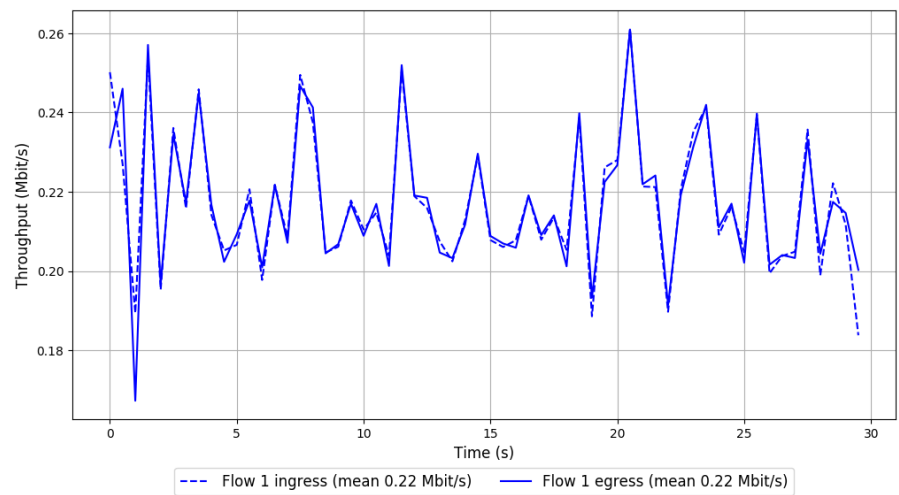
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 30.013 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-11-15 23:40:04

End at: 2017-11-15 23:40:34

Local clock offset: -0.655 ms

Remote clock offset: 0.632 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.907 ms

Loss rate: 0.01%

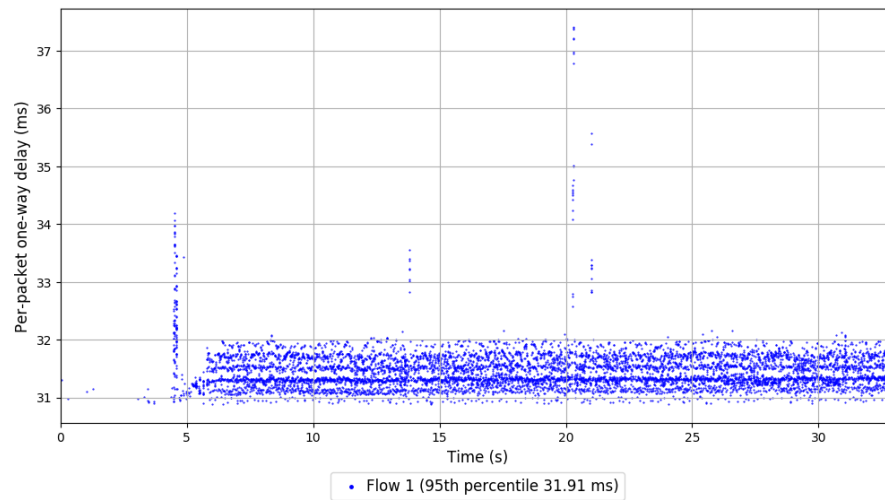
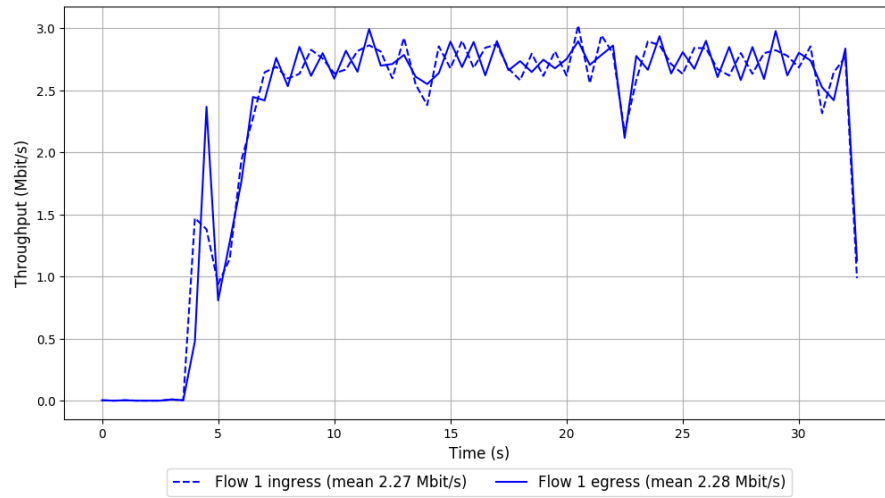
-- Flow 1:

Average throughput: 2.28 Mbit/s

95th percentile per-packet one-way delay: 31.907 ms

Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link

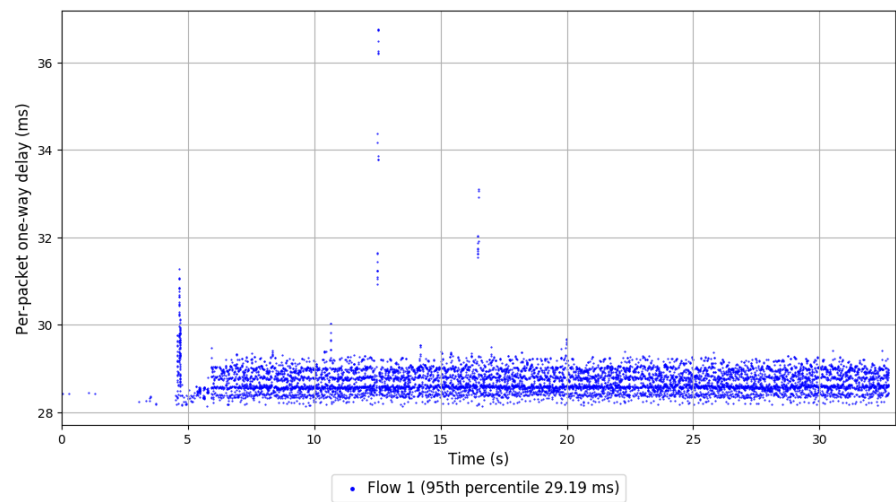
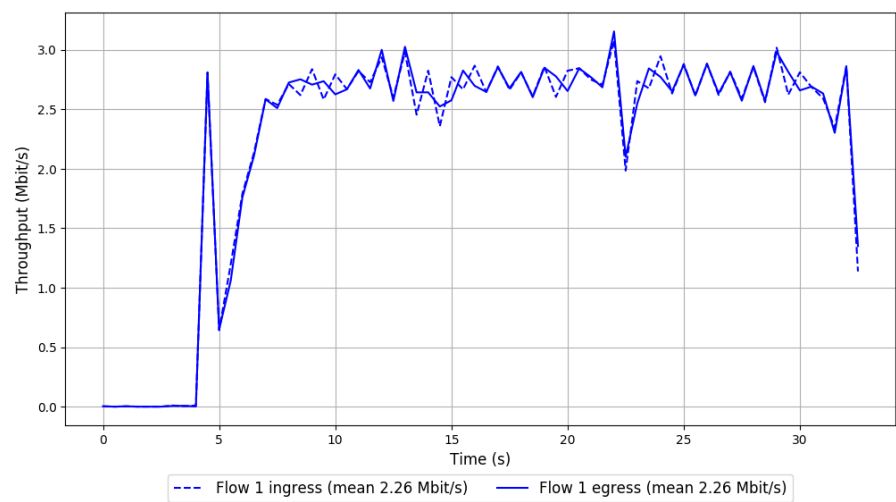


Run 2: Statistics of WebRTC media

Start at: 2017-11-15 23:59:56
End at: 2017-11-16 00:00:27
Local clock offset: -0.227 ms
Remote clock offset: -2.562 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 29.187 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 29.187 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2017-11-16 00:19:51

End at: 2017-11-16 00:20:21

Local clock offset: -0.335 ms

Remote clock offset: 0.134 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 0.00%

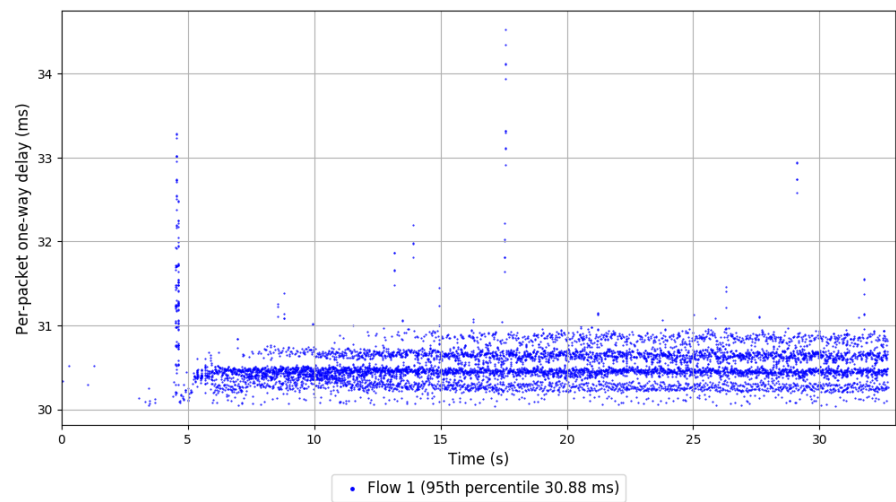
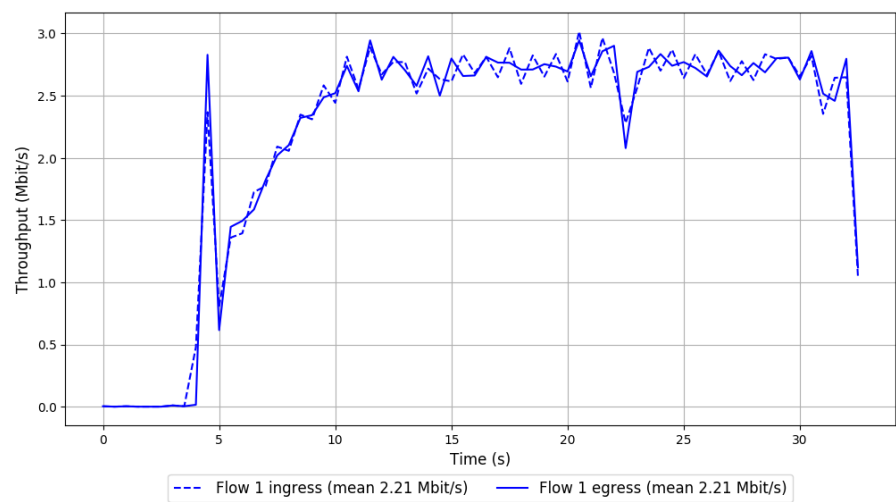
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 30.879 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

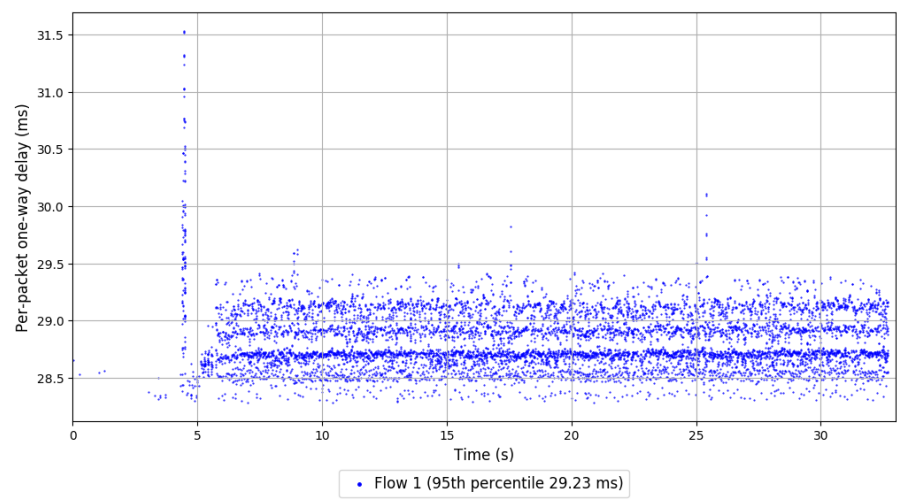
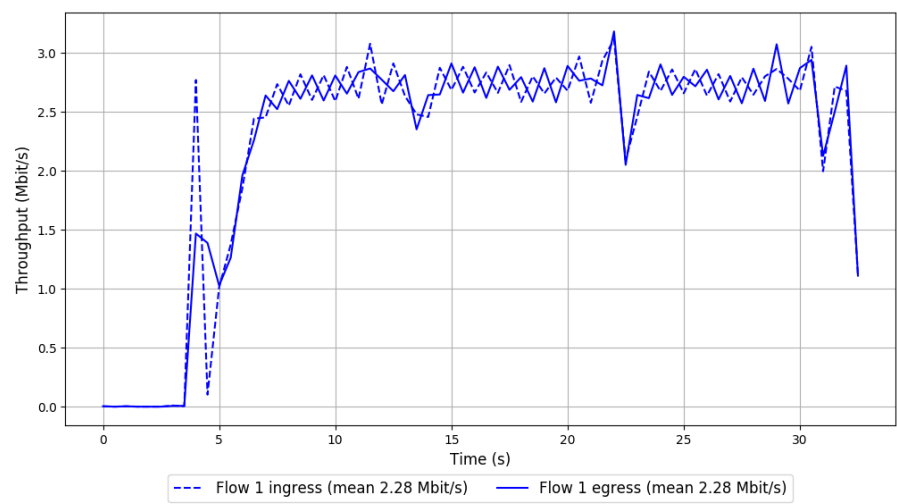


Run 4: Statistics of WebRTC media

Start at: 2017-11-16 00:41:00
End at: 2017-11-16 00:41:30
Local clock offset: -0.643 ms
Remote clock offset: -2.595 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 29.225 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

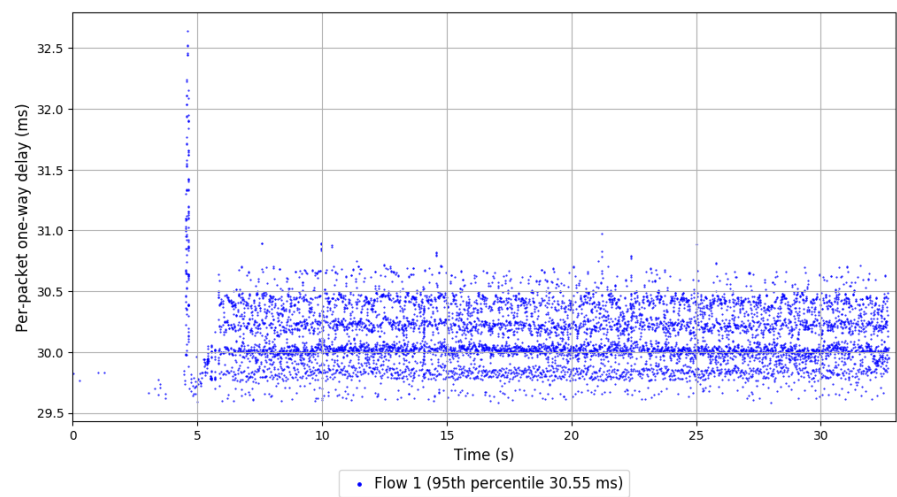
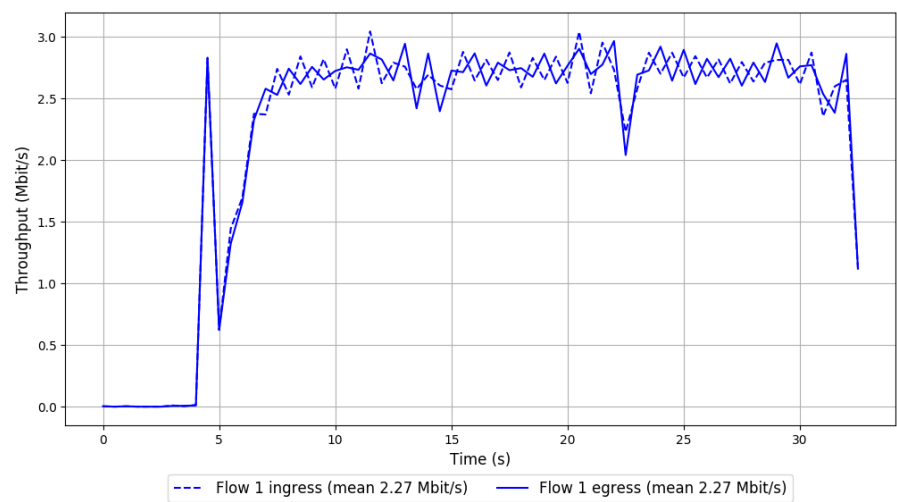


Run 5: Statistics of WebRTC media

Start at: 2017-11-16 01:02:02
End at: 2017-11-16 01:02:32
Local clock offset: -0.697 ms
Remote clock offset: -1.139 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.546 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.546 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

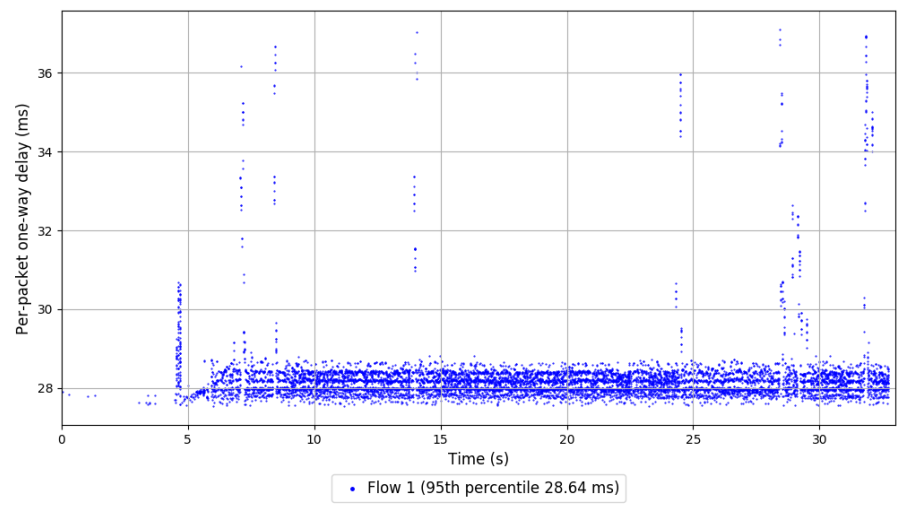
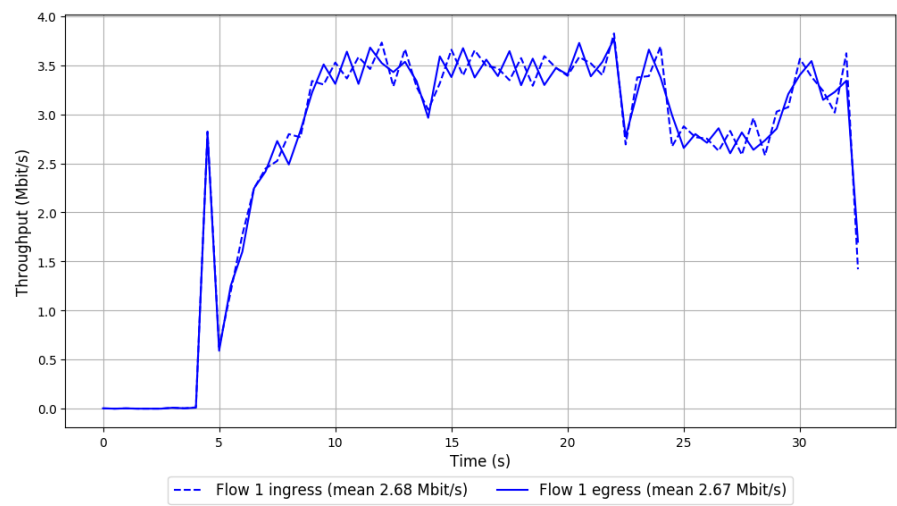


Run 6: Statistics of WebRTC media

Start at: 2017-11-16 01:23:30
End at: 2017-11-16 01:24:00
Local clock offset: -0.823 ms
Remote clock offset: -3.162 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 28.636 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 28.636 ms
Loss rate: 0.11%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2017-11-16 01:46:07

End at: 2017-11-16 01:46:37

Local clock offset: -0.41 ms

Remote clock offset: -1.0 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 30.667 ms

Loss rate: 0.00%

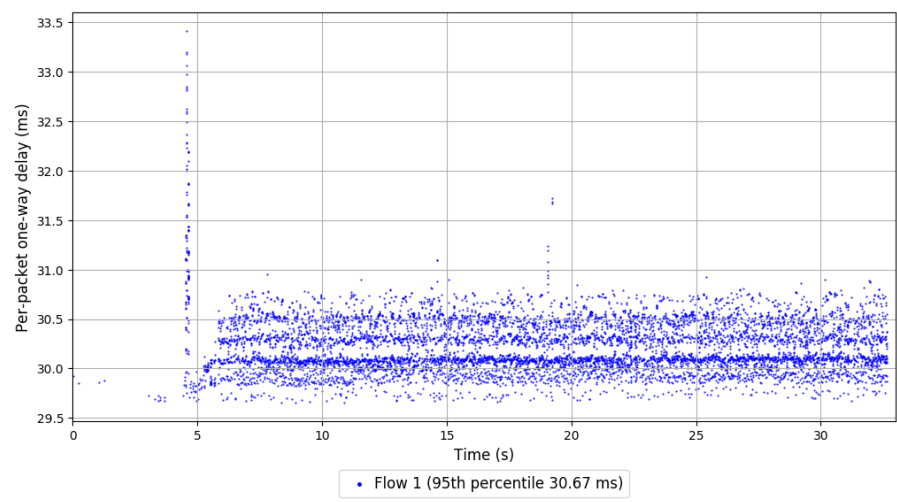
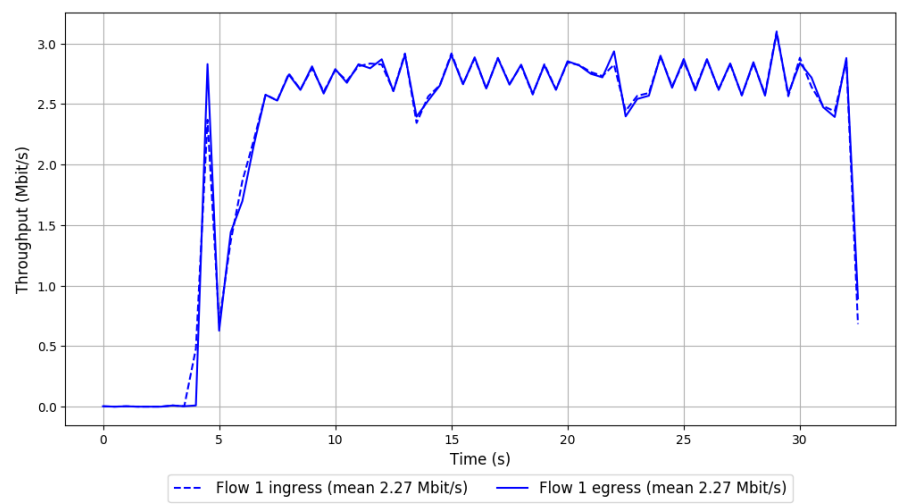
-- Flow 1:

Average throughput: 2.27 Mbit/s

95th percentile per-packet one-way delay: 30.667 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

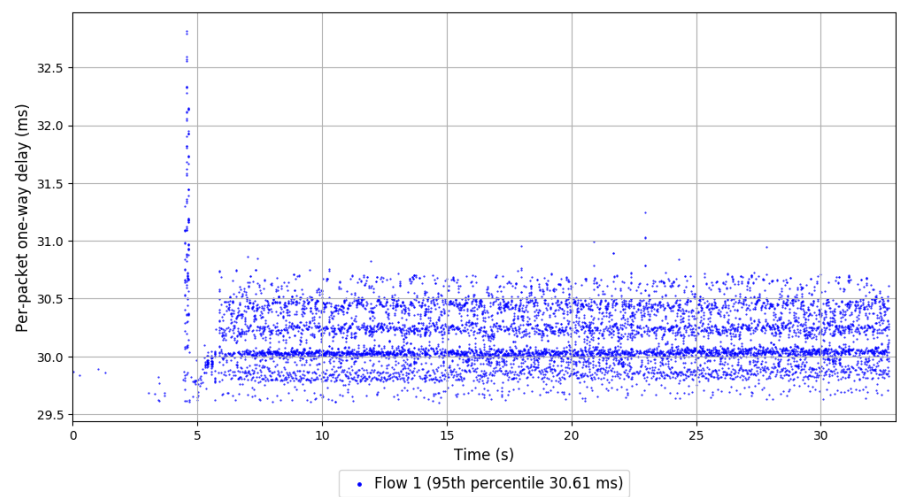
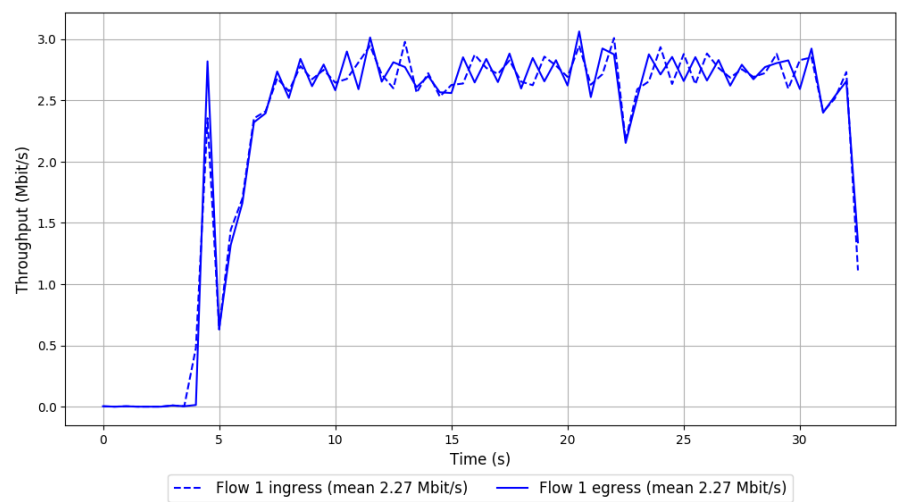


Run 8: Statistics of WebRTC media

Start at: 2017-11-16 02:07:34
End at: 2017-11-16 02:08:04
Local clock offset: 0.182 ms
Remote clock offset: -1.606 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.612 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 30.612 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

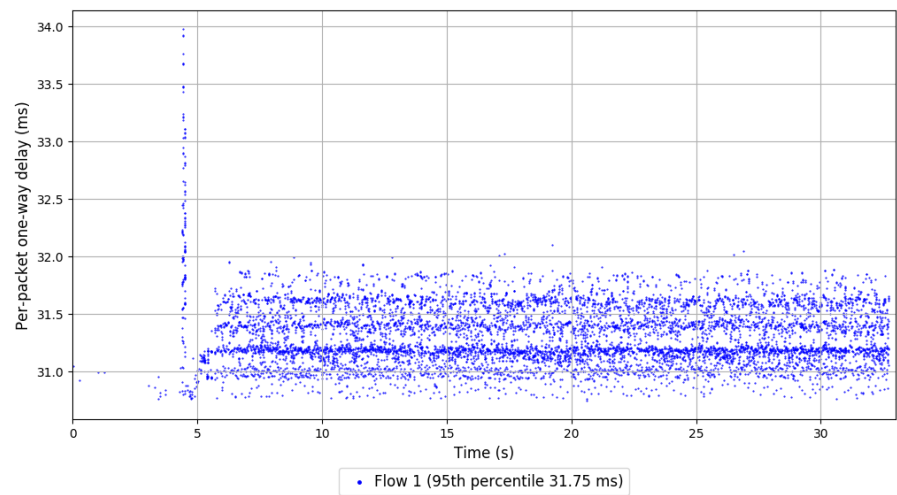
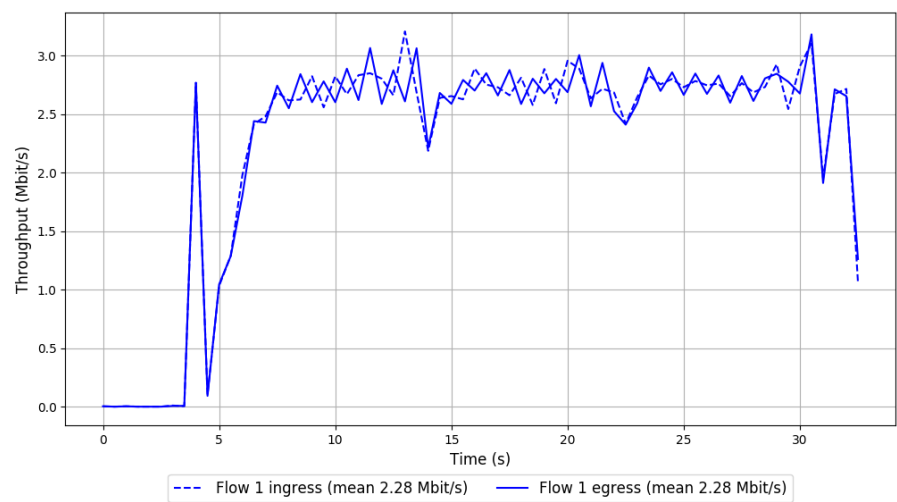


Run 9: Statistics of WebRTC media

Start at: 2017-11-16 02:29:04
End at: 2017-11-16 02:29:34
Local clock offset: 0.55 ms
Remote clock offset: -1.034 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 31.748 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 2.28 Mbit/s
95th percentile per-packet one-way delay: 31.748 ms
Loss rate: 0.01%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-11-16 02:50:39

End at: 2017-11-16 02:51:09

Local clock offset: 0.666 ms

Remote clock offset: -3.14 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 29.060 ms

Loss rate: 0.17%

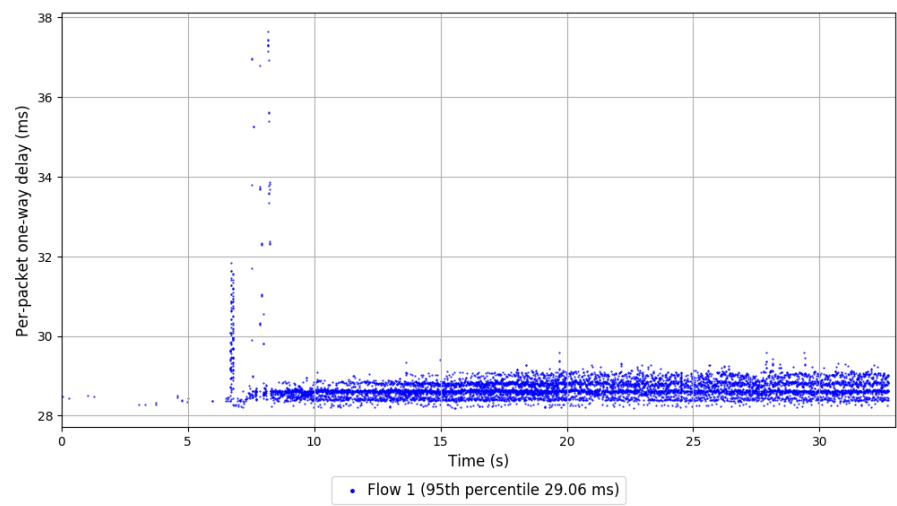
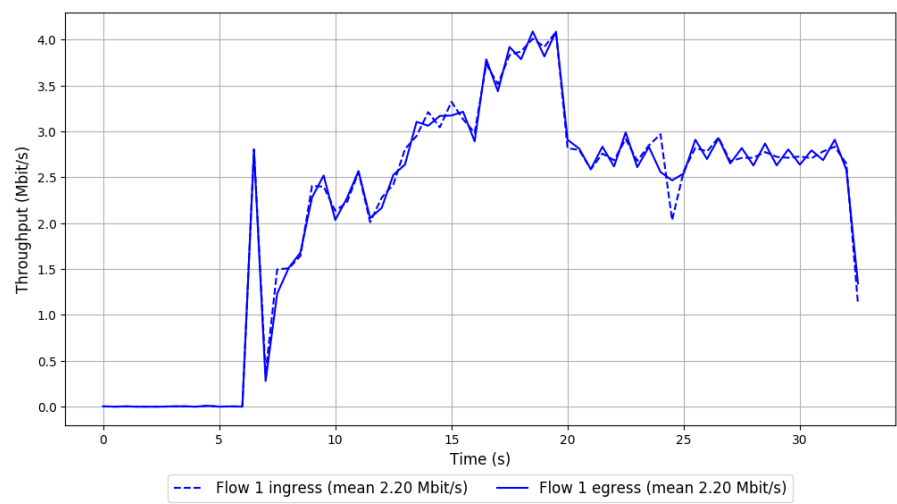
-- Flow 1:

Average throughput: 2.20 Mbit/s

95th percentile per-packet one-way delay: 29.060 ms

Loss rate: 0.17%

Run 10: Report of WebRTC media — Data Link

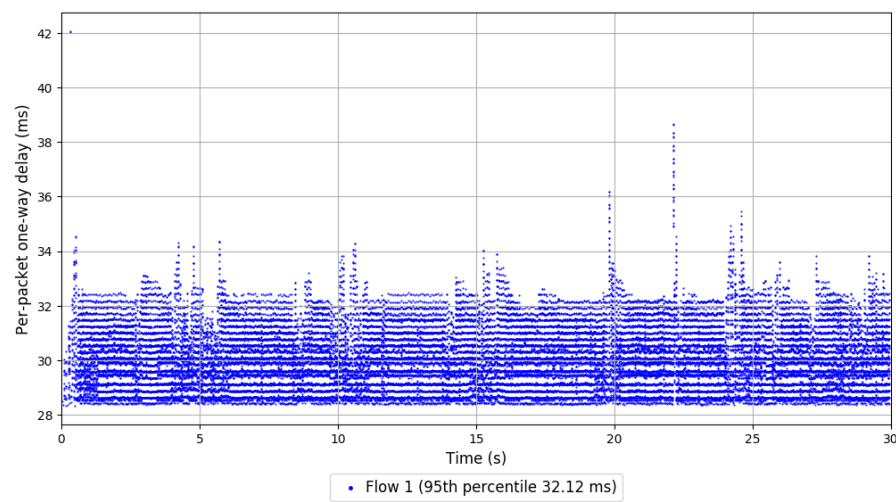
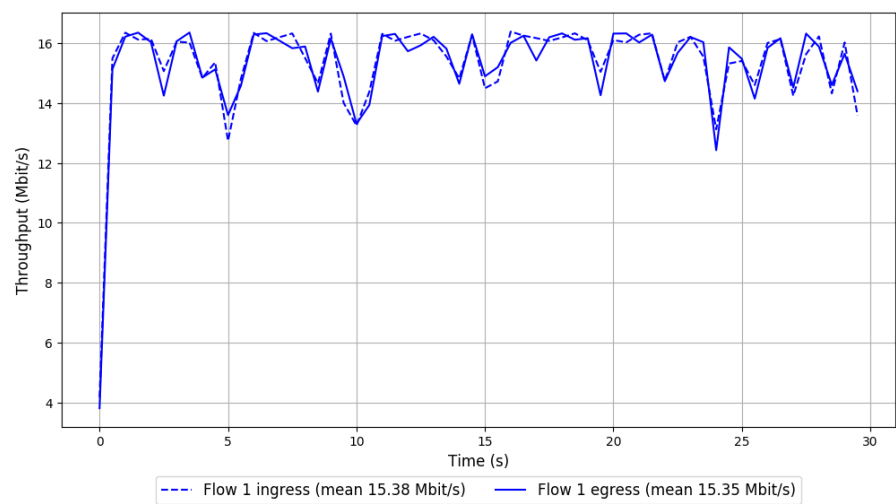


Run 1: Statistics of Sprout

Start at: 2017-11-15 23:27:41
End at: 2017-11-15 23:28:11
Local clock offset: -0.689 ms
Remote clock offset: -1.951 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 32.123 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 32.123 ms
Loss rate: 0.13%

Run 1: Report of Sprout — Data Link

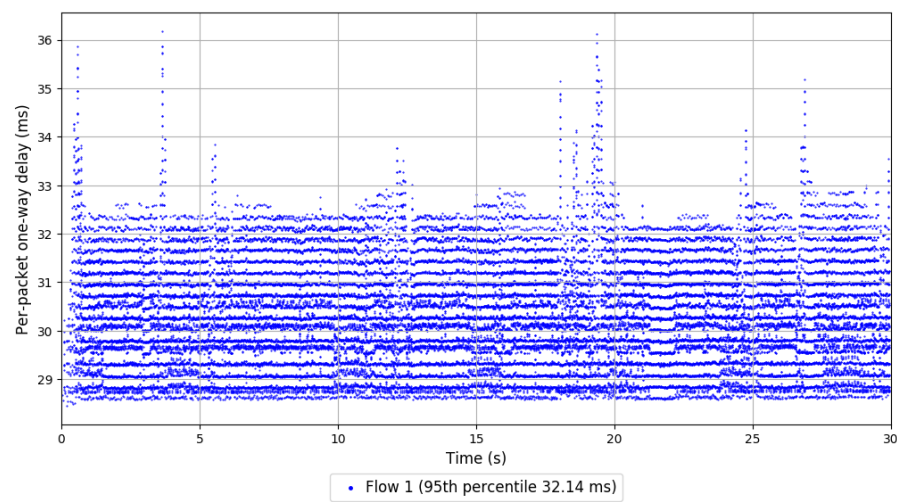
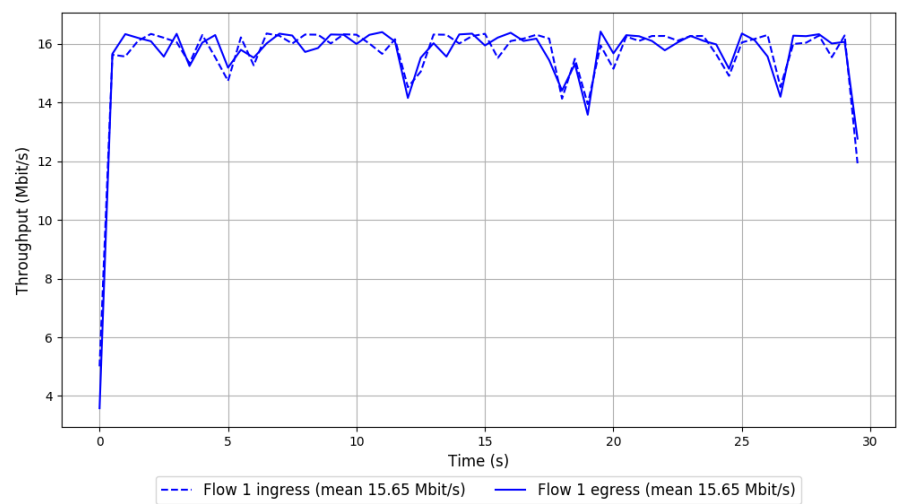


Run 2: Statistics of Sprout

Start at: 2017-11-15 23:47:14
End at: 2017-11-15 23:47:44
Local clock offset: -0.477 ms
Remote clock offset: -2.076 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 32.136 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.65 Mbit/s
95th percentile per-packet one-way delay: 32.136 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

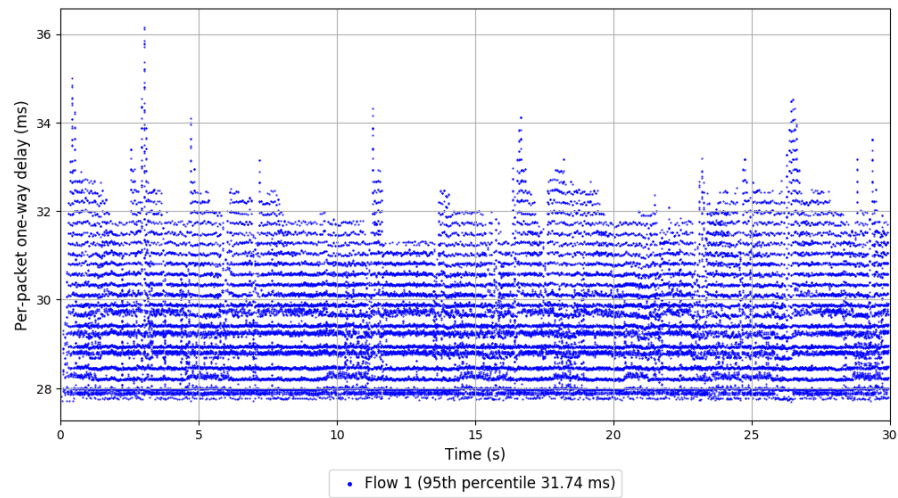
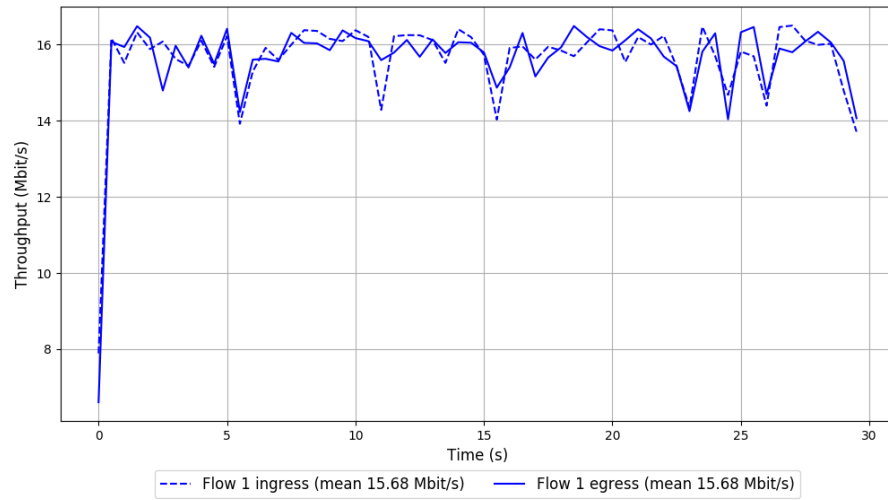


Run 3: Statistics of Sprout

Start at: 2017-11-16 00:07:00
End at: 2017-11-16 00:07:30
Local clock offset: -0.277 ms
Remote clock offset: -2.633 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 31.741 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.68 Mbit/s
95th percentile per-packet one-way delay: 31.741 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2017-11-16 00:27:45

End at: 2017-11-16 00:28:15

Local clock offset: -0.55 ms

Remote clock offset: 0.183 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 34.555 ms

Loss rate: 0.03%

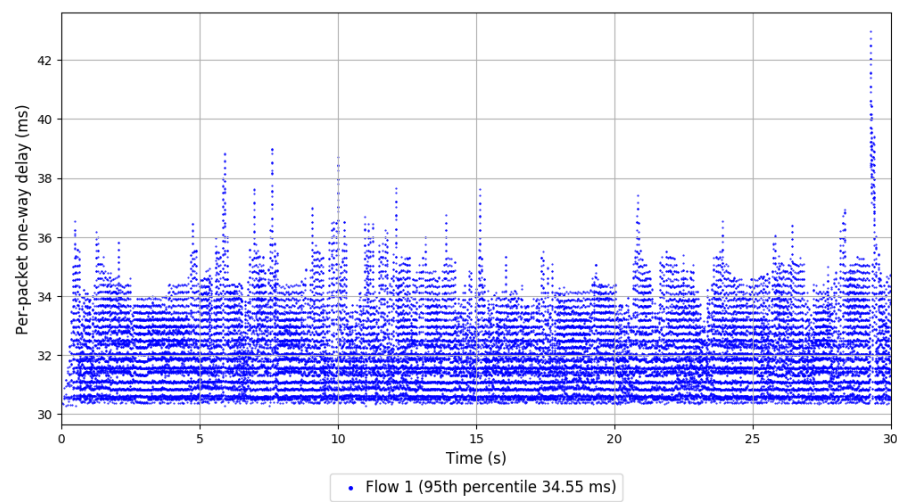
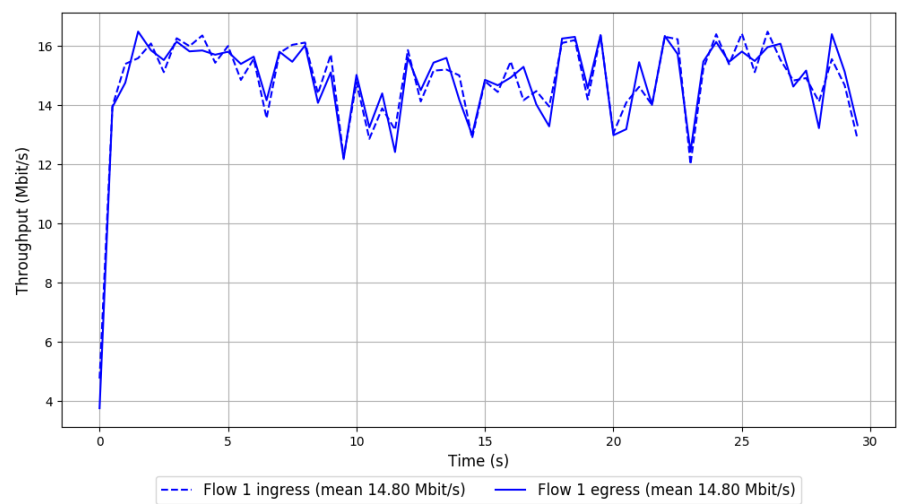
-- Flow 1:

Average throughput: 14.80 Mbit/s

95th percentile per-packet one-way delay: 34.555 ms

Loss rate: 0.03%

Run 4: Report of Sprout — Data Link

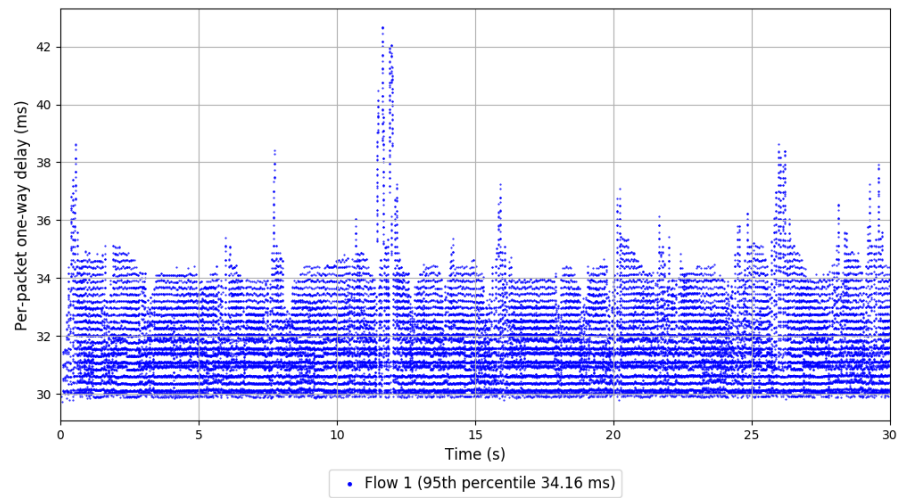
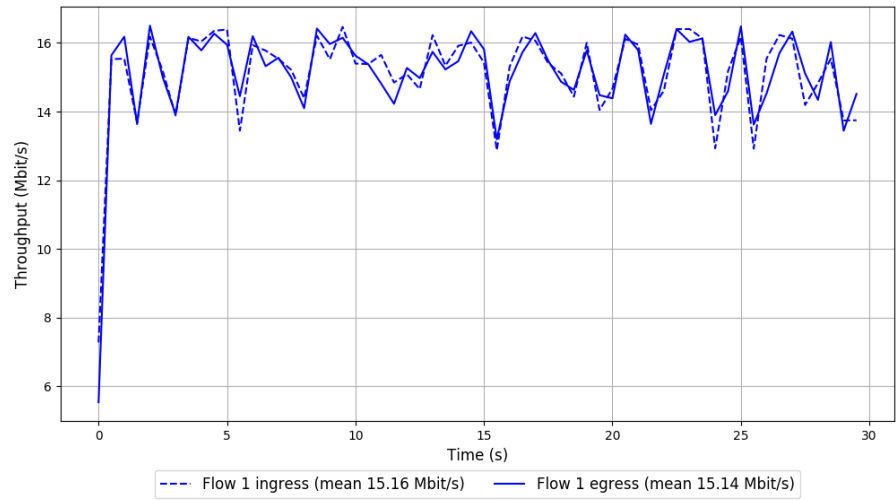


Run 5: Statistics of Sprout

Start at: 2017-11-16 00:48:25
End at: 2017-11-16 00:48:55
Local clock offset: -0.617 ms
Remote clock offset: -0.806 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 34.163 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 15.14 Mbit/s
95th percentile per-packet one-way delay: 34.163 ms
Loss rate: 0.14%

Run 5: Report of Sprout — Data Link

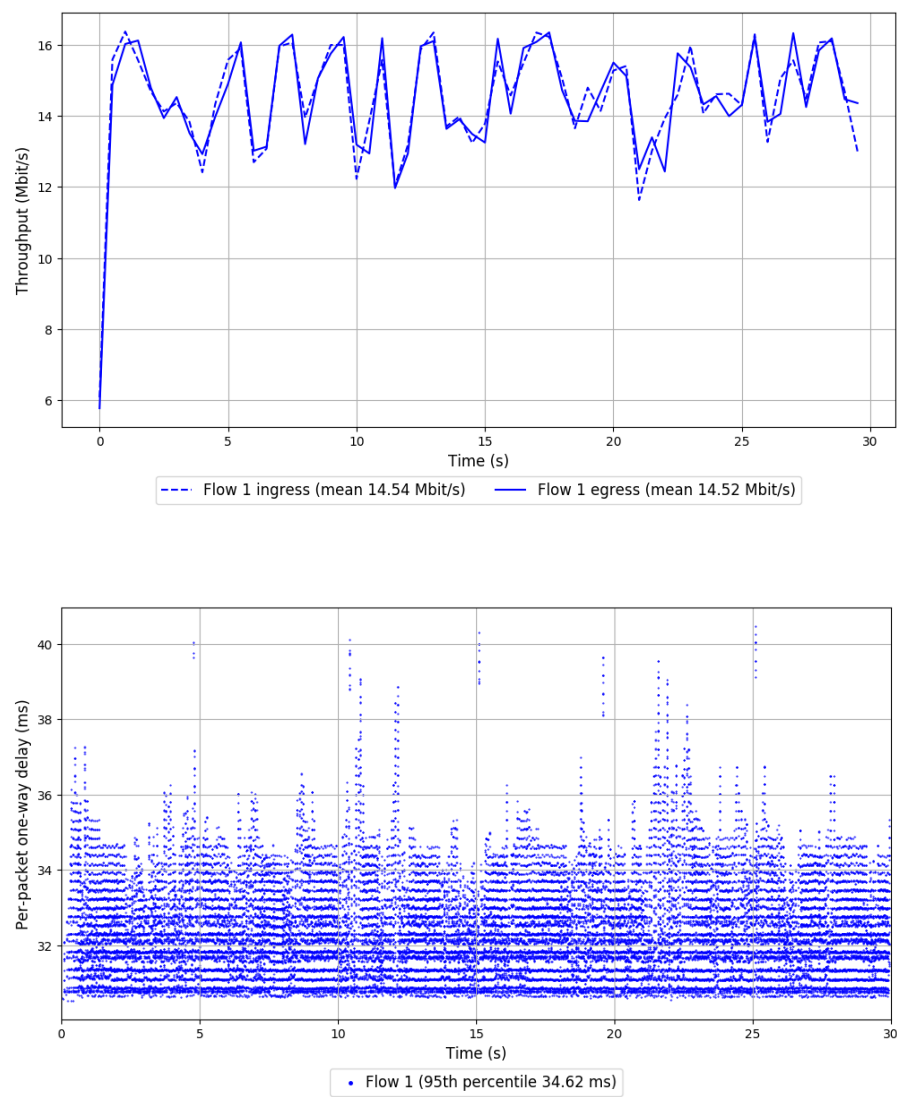


Run 6: Statistics of Sprout

Start at: 2017-11-16 01:10:06
End at: 2017-11-16 01:10:36
Local clock offset: -0.779 ms
Remote clock offset: -1.037 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 34.623 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 14.52 Mbit/s
95th percentile per-packet one-way delay: 34.623 ms
Loss rate: 0.12%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-11-16 01:31:55

End at: 2017-11-16 01:32:25

Local clock offset: -0.84 ms

Remote clock offset: -2.97 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 32.400 ms

Loss rate: 0.07%

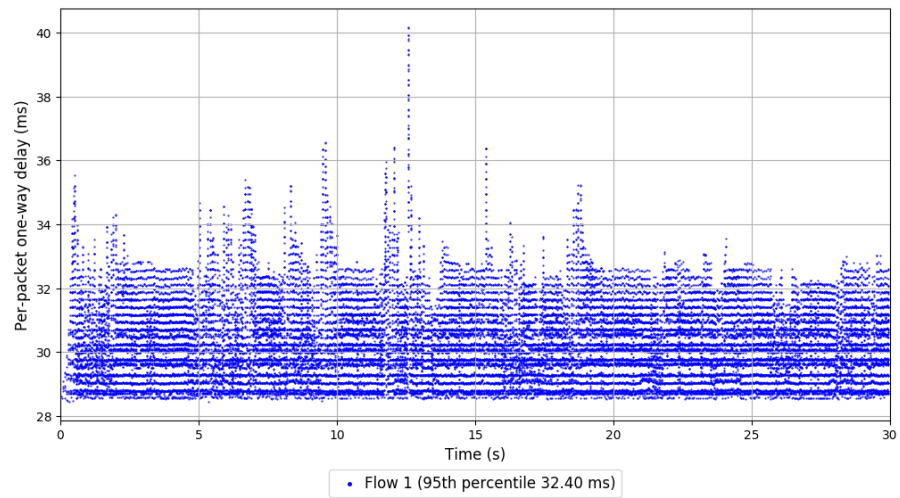
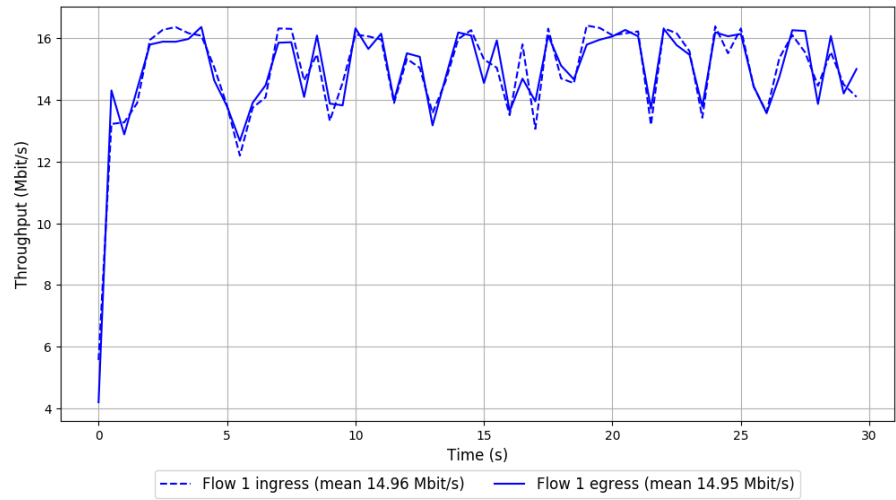
-- Flow 1:

Average throughput: 14.95 Mbit/s

95th percentile per-packet one-way delay: 32.400 ms

Loss rate: 0.07%

Run 7: Report of Sprout — Data Link

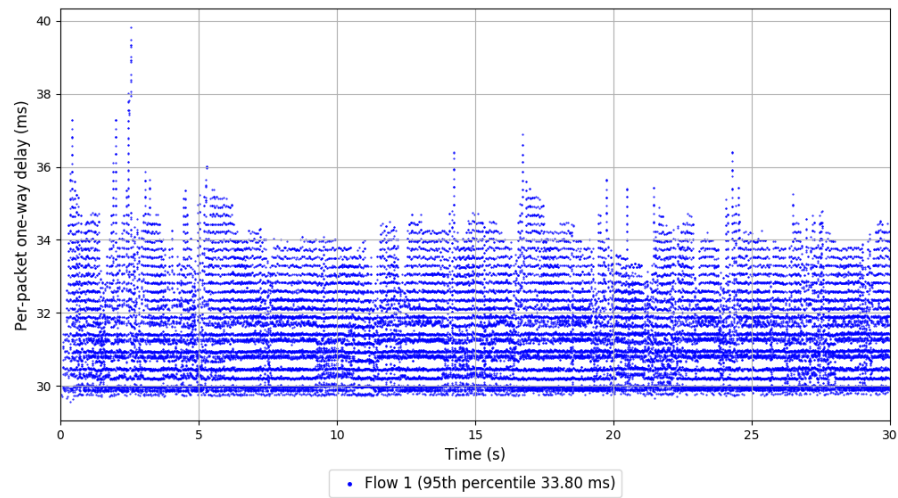
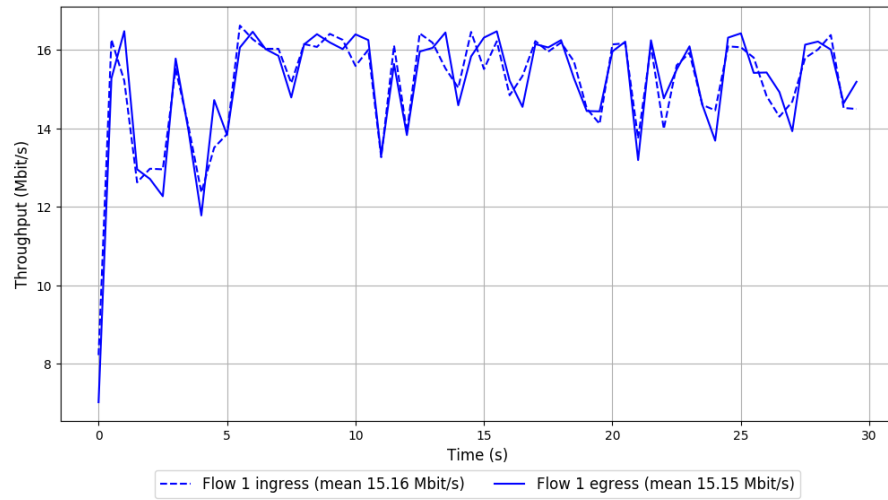


Run 8: Statistics of Sprout

Start at: 2017-11-16 01:53:58
End at: 2017-11-16 01:54:28
Local clock offset: 0.009 ms
Remote clock offset: -1.198 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 33.797 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 15.15 Mbit/s
95th percentile per-packet one-way delay: 33.797 ms
Loss rate: 0.03%

Run 8: Report of Sprout — Data Link

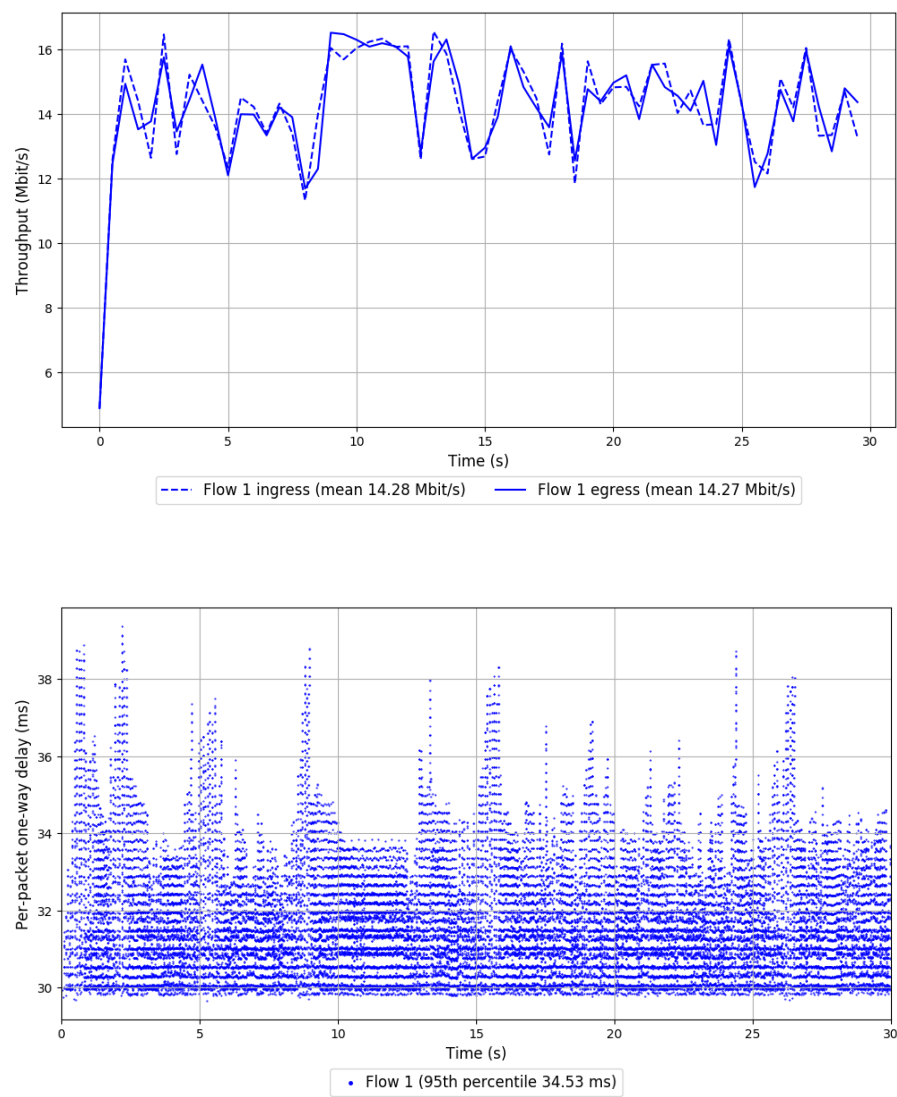


Run 9: Statistics of Sprout

Start at: 2017-11-16 02:15:44
End at: 2017-11-16 02:16:14
Local clock offset: 0.373 ms
Remote clock offset: -1.586 ms

Below is generated by plot.py at 2017-11-16 03:17:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 34.531 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 14.27 Mbit/s
95th percentile per-packet one-way delay: 34.531 ms
Loss rate: 0.07%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2017-11-16 02:36:54

End at: 2017-11-16 02:37:24

Local clock offset: 0.619 ms

Remote clock offset: -1.47 ms

Below is generated by plot.py at 2017-11-16 03:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 14.32 Mbit/s

95th percentile per-packet one-way delay: 34.822 ms

Loss rate: 0.07%

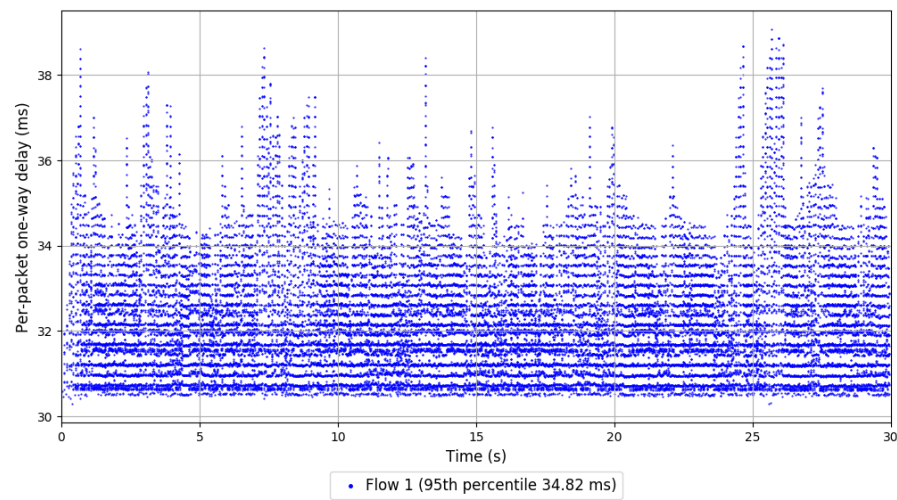
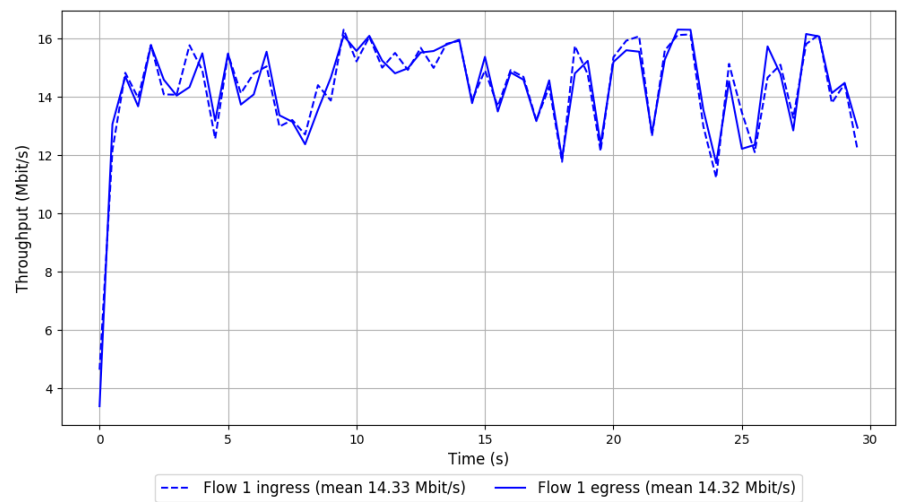
-- Flow 1:

Average throughput: 14.32 Mbit/s

95th percentile per-packet one-way delay: 34.822 ms

Loss rate: 0.07%

Run 10: Report of Sprout — Data Link

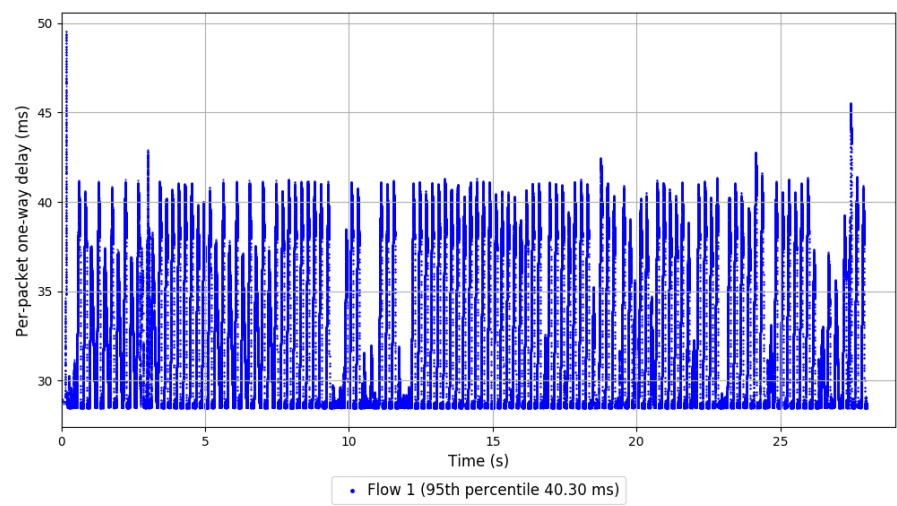
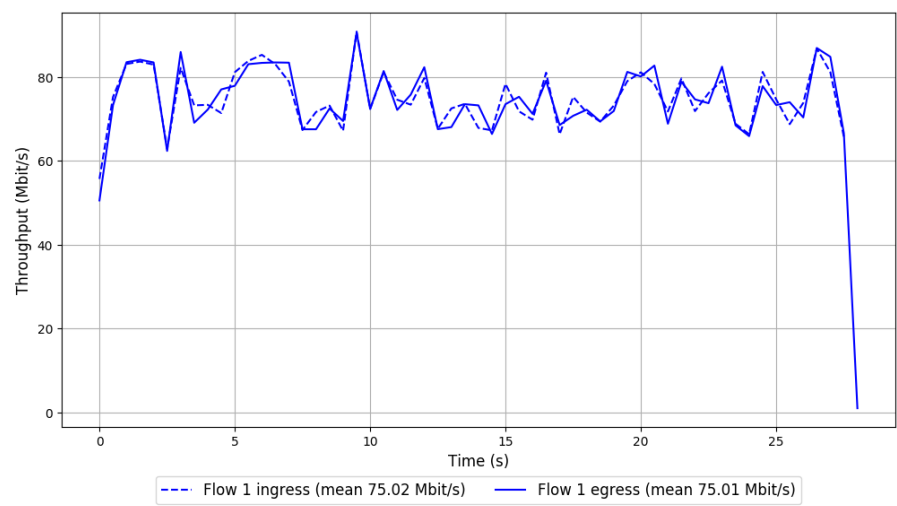


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-11-15 23:23:23
End at: 2017-11-15 23:23:53
Local clock offset: -0.806 ms
Remote clock offset: -2.001 ms

# Below is generated by plot.py at 2017-11-16 03:18:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 40.302 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 75.01 Mbit/s
95th percentile per-packet one-way delay: 40.302 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2017-11-15 23:42:54

End at: 2017-11-15 23:43:24

Local clock offset: -0.455 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2017-11-16 03:18:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 41.631 ms

Loss rate: 0.08%

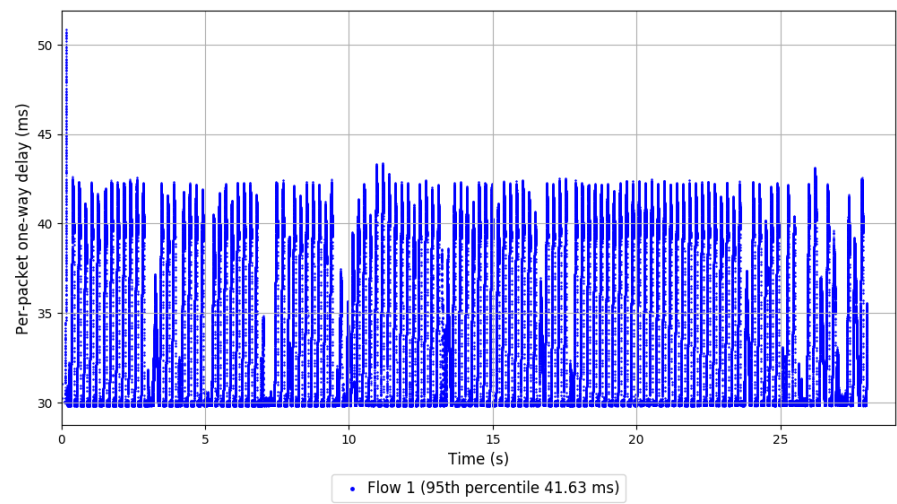
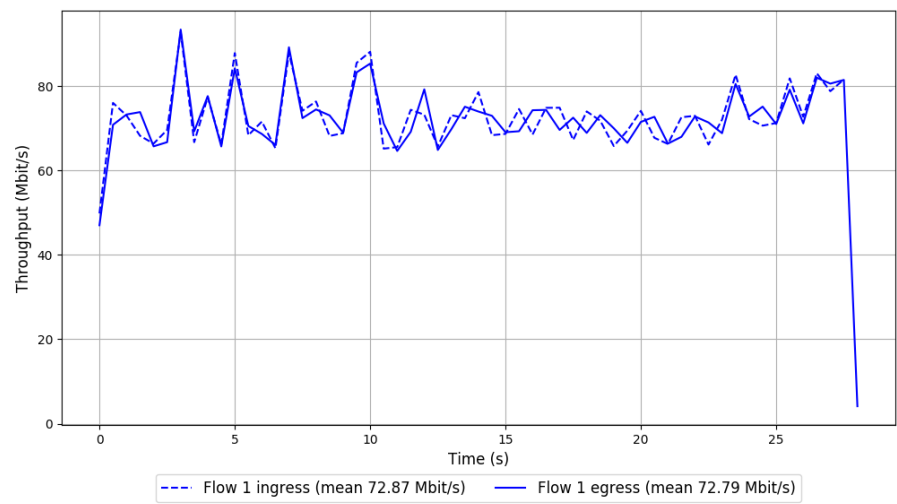
-- Flow 1:

Average throughput: 72.79 Mbit/s

95th percentile per-packet one-way delay: 41.631 ms

Loss rate: 0.08%

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

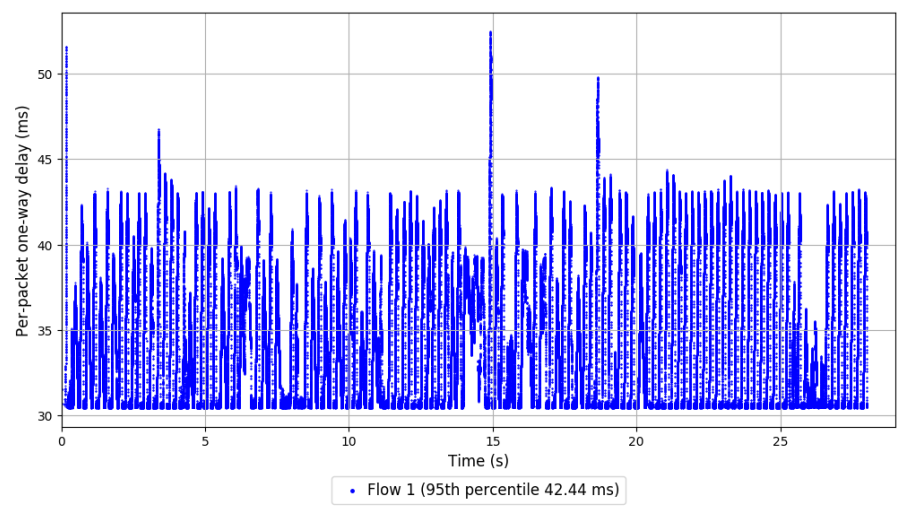
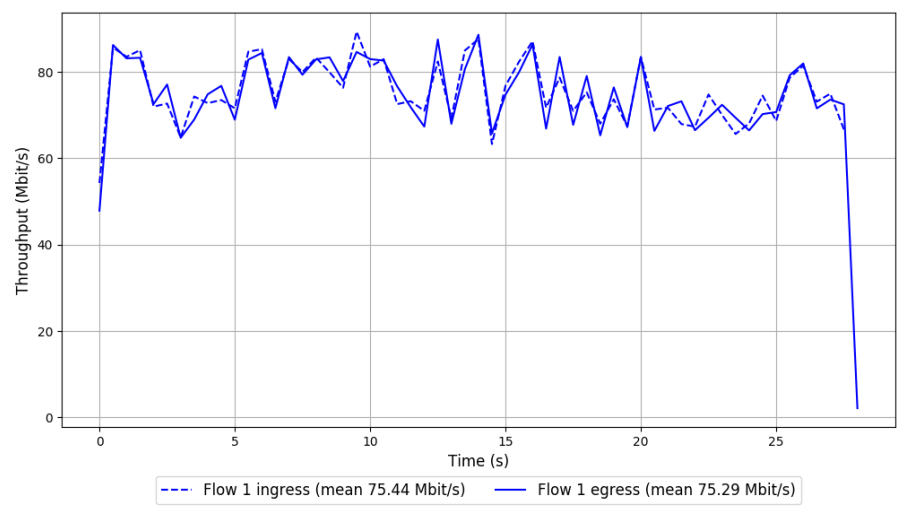


Run 3: Statistics of TaoVA-100x

Start at: 2017-11-16 00:02:42
End at: 2017-11-16 00:03:13
Local clock offset: -0.182 ms
Remote clock offset: -0.483 ms

Below is generated by plot.py at 2017-11-16 03:18:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 75.29 Mbit/s
95th percentile per-packet one-way delay: 42.441 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 75.29 Mbit/s
95th percentile per-packet one-way delay: 42.441 ms
Loss rate: 0.21%

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-11-16 00:22:55

End at: 2017-11-16 00:23:25

Local clock offset: -0.47 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2017-11-16 03:19:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 41.935 ms

Loss rate: 0.23%

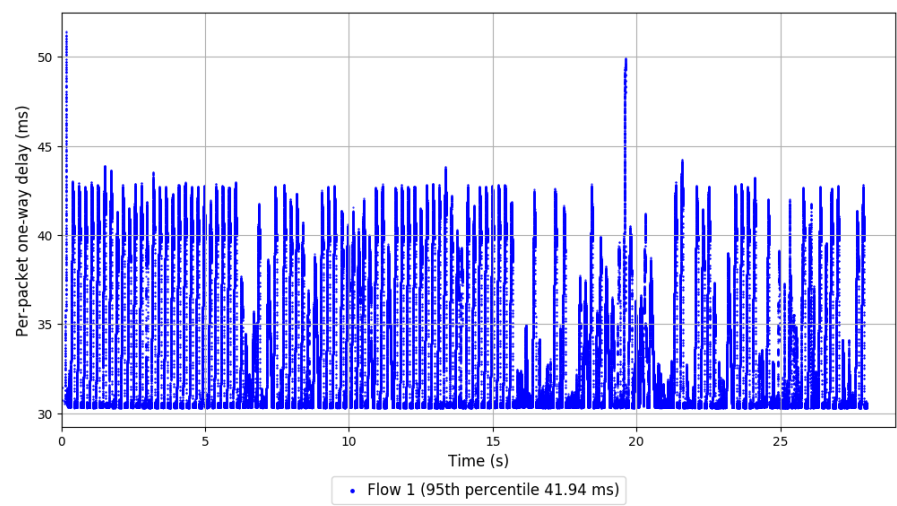
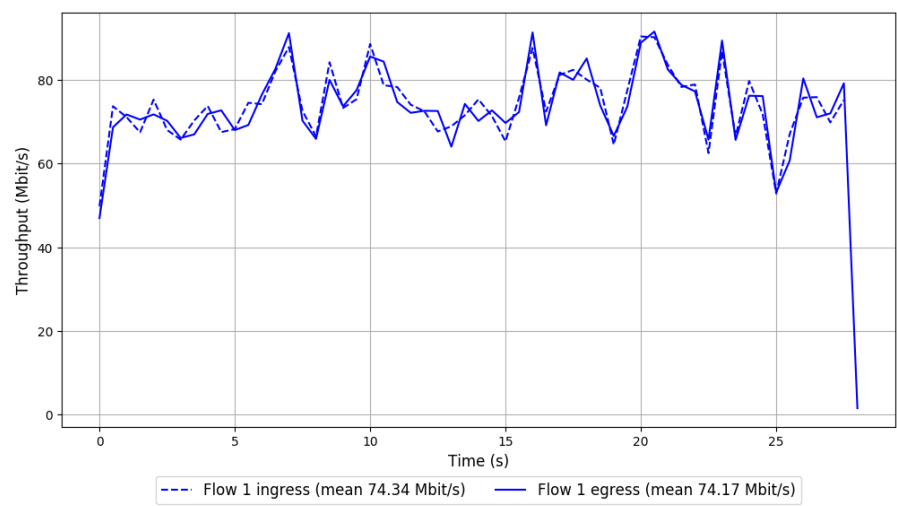
-- Flow 1:

Average throughput: 74.17 Mbit/s

95th percentile per-packet one-way delay: 41.935 ms

Loss rate: 0.23%

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



Run 5: Statistics of TaoVA-100x

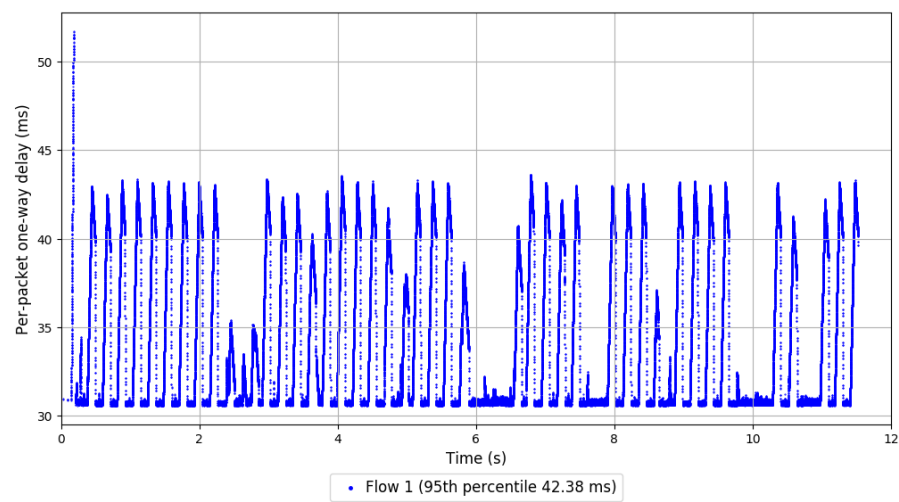
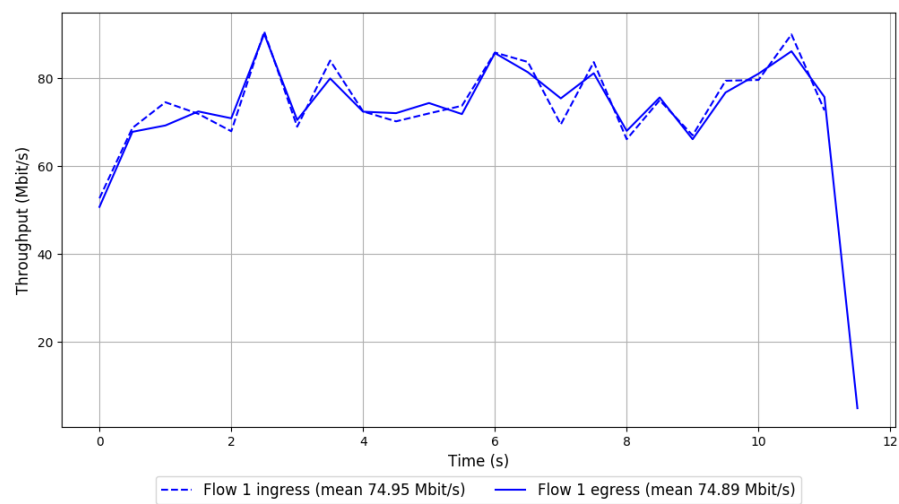
Start at: 2017-11-16 00:43:56

End at: 2017-11-16 00:44:26

Local clock offset: -0.562 ms

Remote clock offset: -0.548 ms

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

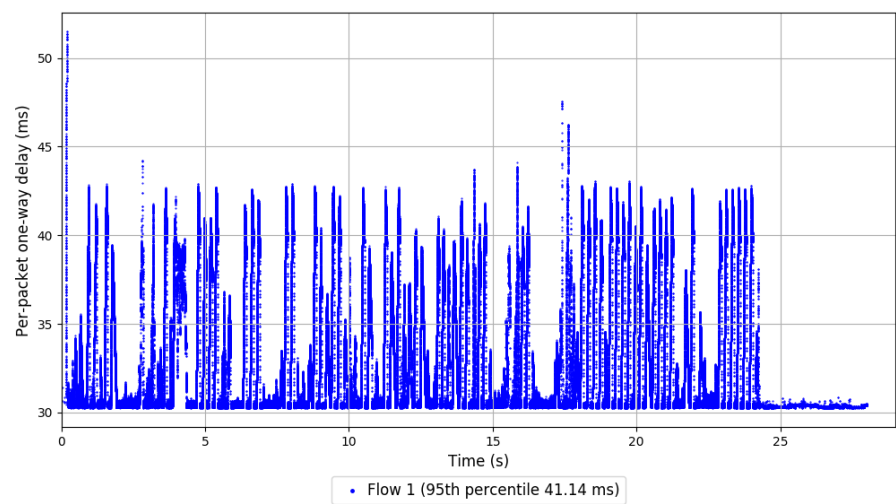
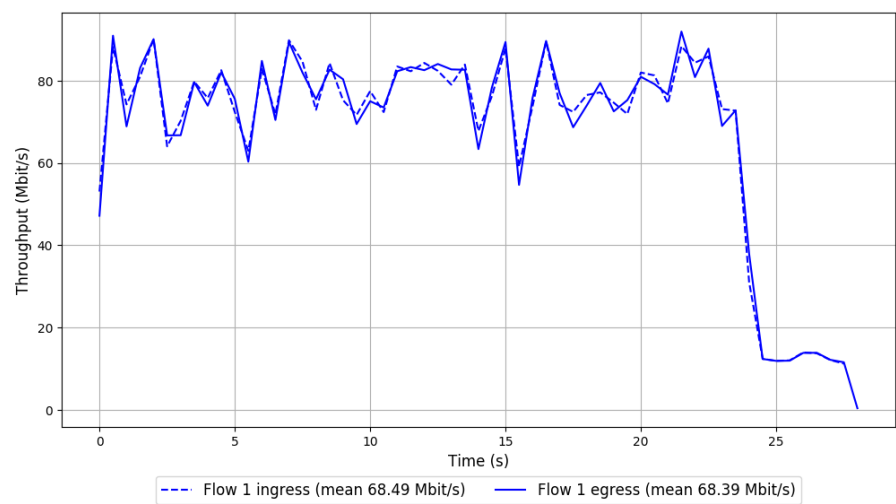


Run 6: Statistics of TaoVA-100x

Start at: 2017-11-16 01:05:01
End at: 2017-11-16 01:05:31
Local clock offset: -0.631 ms
Remote clock offset: -0.621 ms

Below is generated by plot.py at 2017-11-16 03:19:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.39 Mbit/s
95th percentile per-packet one-way delay: 41.136 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 68.39 Mbit/s
95th percentile per-packet one-way delay: 41.136 ms
Loss rate: 0.14%

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

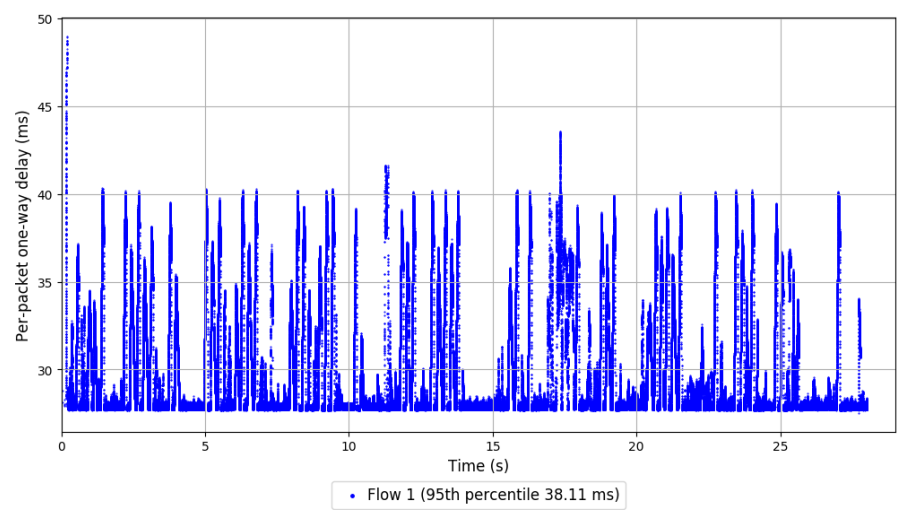
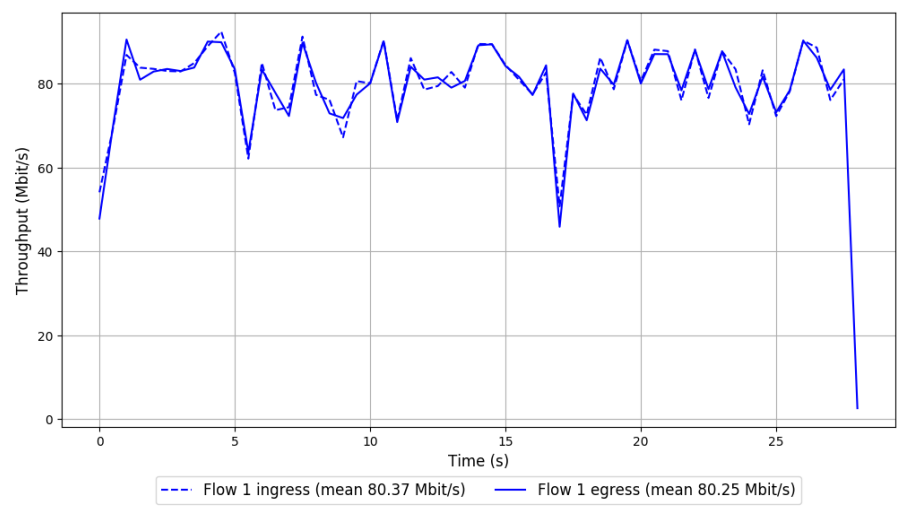


Run 7: Statistics of TaoVA-100x

Start at: 2017-11-16 01:26:33
End at: 2017-11-16 01:27:03
Local clock offset: -0.754 ms
Remote clock offset: -3.119 ms

Below is generated by plot.py at 2017-11-16 03:19:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 38.110 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 80.25 Mbit/s
95th percentile per-packet one-way delay: 38.110 ms
Loss rate: 0.15%

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



Run 8: Statistics of TaoVA-100x

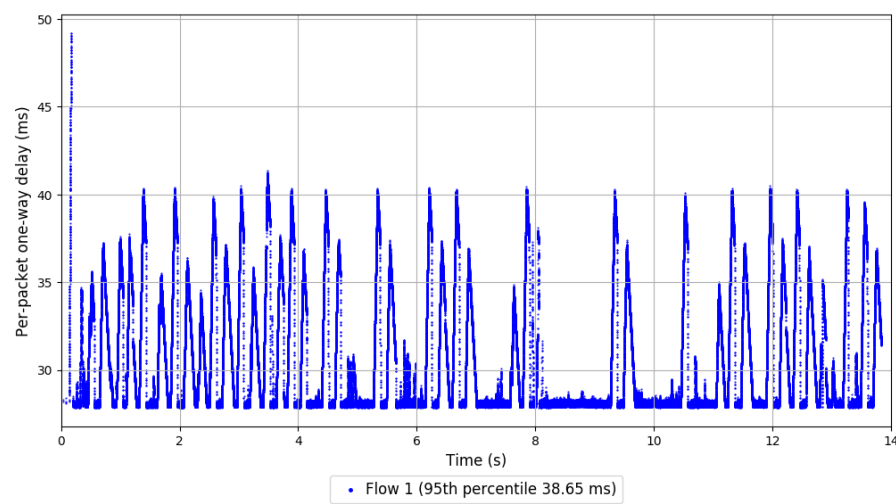
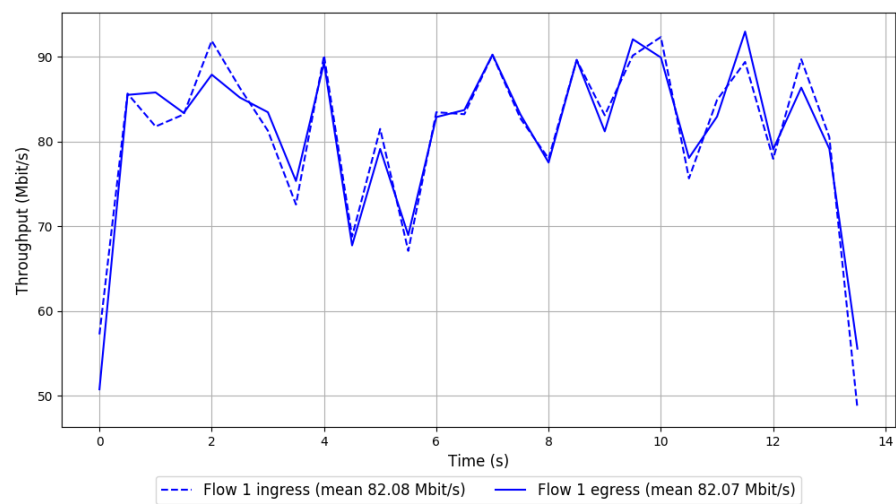
Start at: 2017-11-16 01:49:06

End at: 2017-11-16 01:49:36

Local clock offset: -0.282 ms

Remote clock offset: -3.063 ms

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-11-16 02:10:34

End at: 2017-11-16 02:11:04

Local clock offset: 0.312 ms

Remote clock offset: -3.694 ms

Below is generated by plot.py at 2017-11-16 03:20:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 39.497 ms

Loss rate: 0.00%

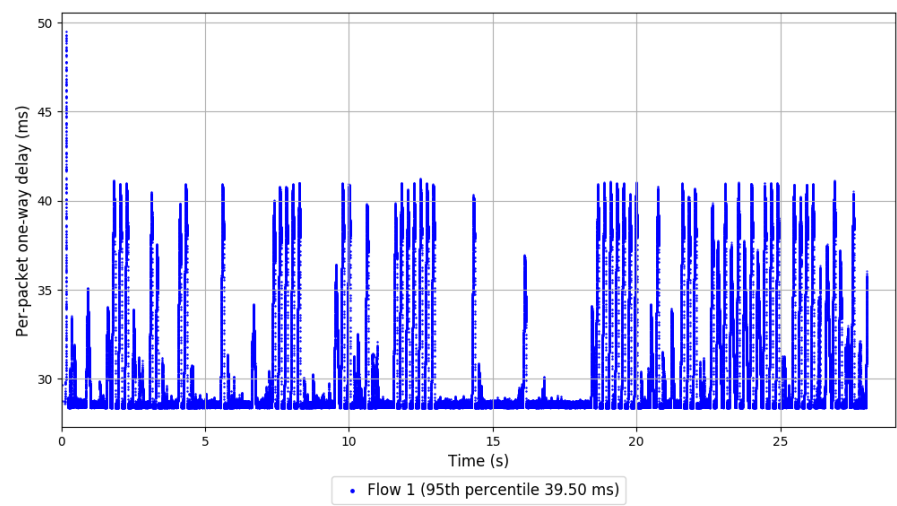
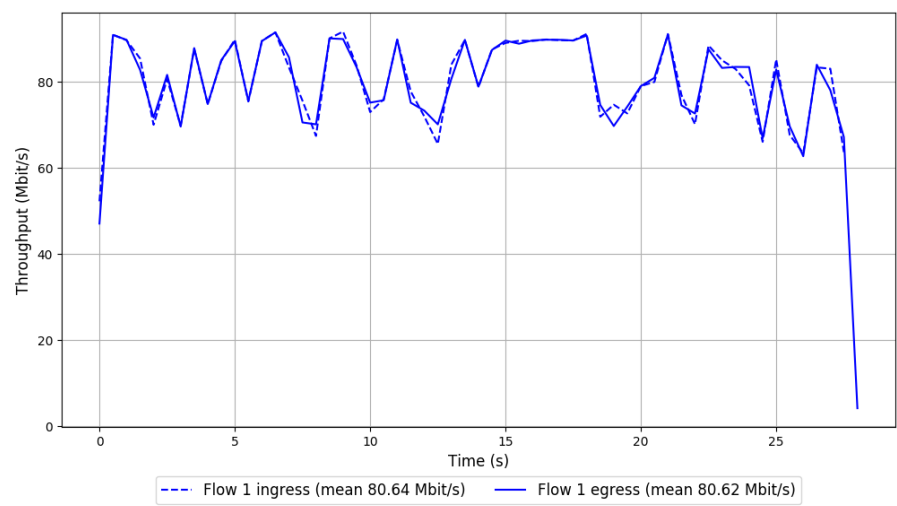
-- Flow 1:

Average throughput: 80.62 Mbit/s

95th percentile per-packet one-way delay: 39.497 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2017-11-16 02:32:03

End at: 2017-11-16 02:32:33

Local clock offset: 0.514 ms

Remote clock offset: -1.106 ms

Below is generated by plot.py at 2017-11-16 03:20:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 40.882 ms

Loss rate: 0.02%

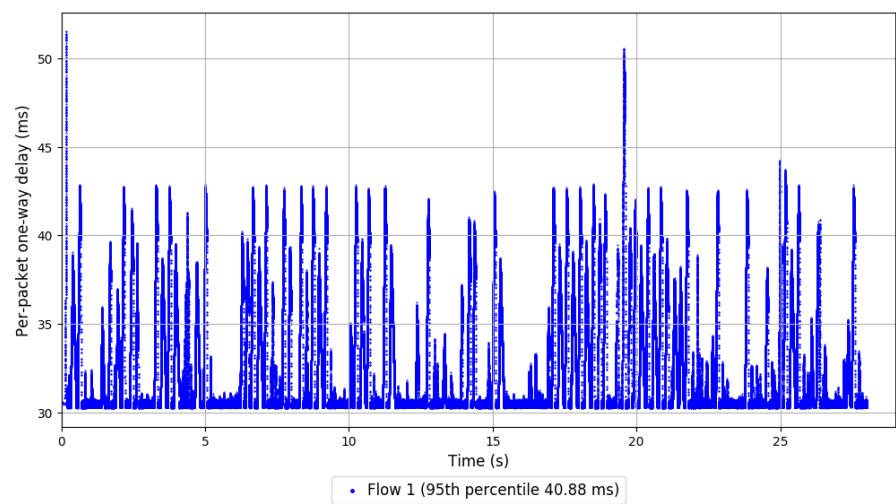
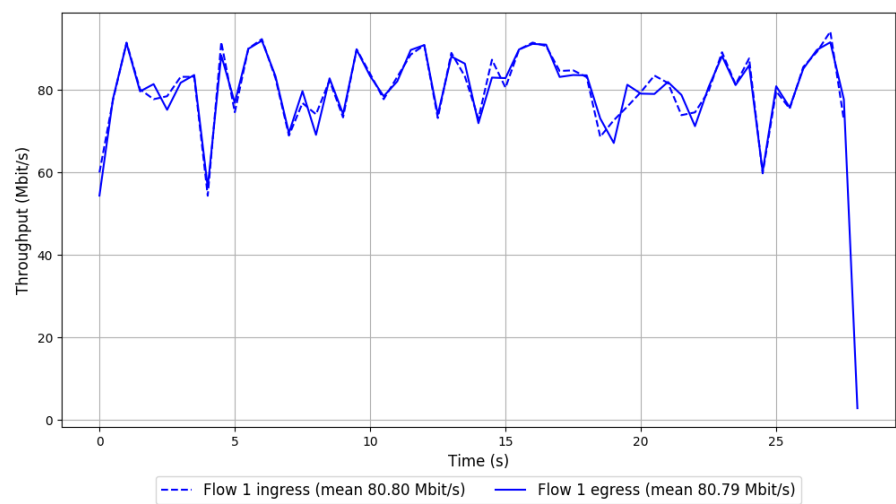
-- Flow 1:

Average throughput: 80.79 Mbit/s

95th percentile per-packet one-way delay: 40.882 ms

Loss rate: 0.02%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-11-15 23:34:10

End at: 2017-11-15 23:34:40

Local clock offset: -0.745 ms

Remote clock offset: 0.279 ms

Below is generated by plot.py at 2017-11-16 03:20:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 40.32 Mbit/s

95th percentile per-packet one-way delay: 53.544 ms

Loss rate: 0.18%

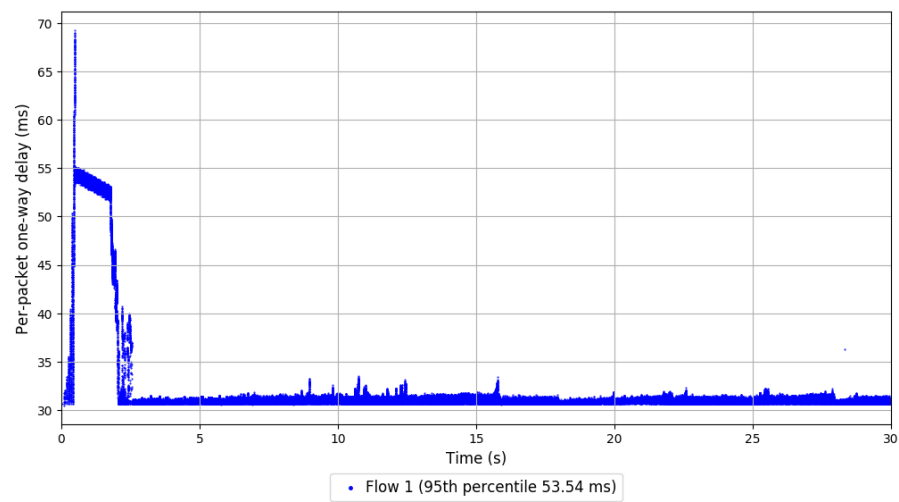
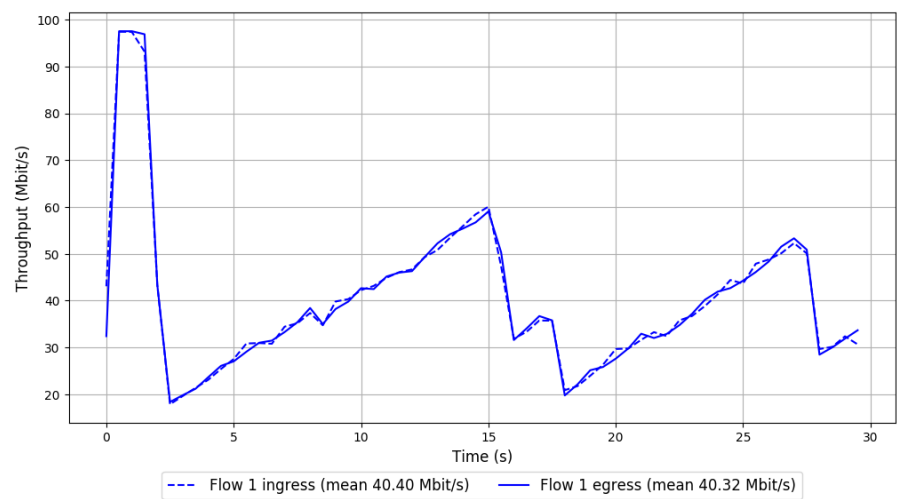
-- Flow 1:

Average throughput: 40.32 Mbit/s

95th percentile per-packet one-way delay: 53.544 ms

Loss rate: 0.18%

Run 1: Report of TCP Vegas — Data Link

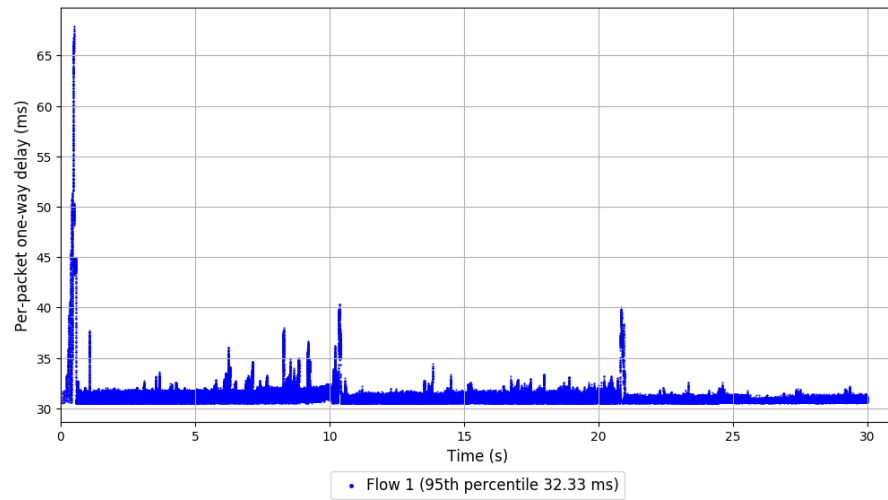
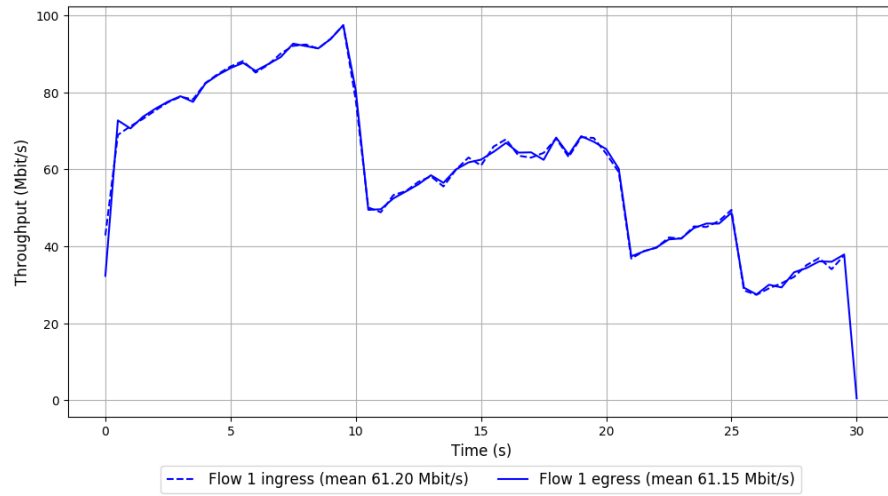


Run 2: Statistics of TCP Vegas

Start at: 2017-11-15 23:53:50
End at: 2017-11-15 23:54:20
Local clock offset: -0.402 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2017-11-16 03:20:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 61.15 Mbit/s
95th percentile per-packet one-way delay: 32.328 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 61.15 Mbit/s
95th percentile per-packet one-way delay: 32.328 ms
Loss rate: 0.08%

Run 2: Report of TCP Vegas — Data Link

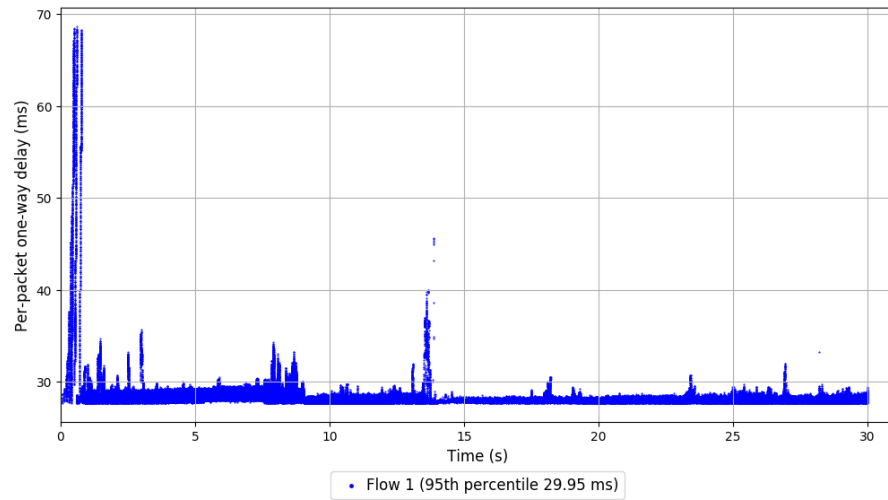
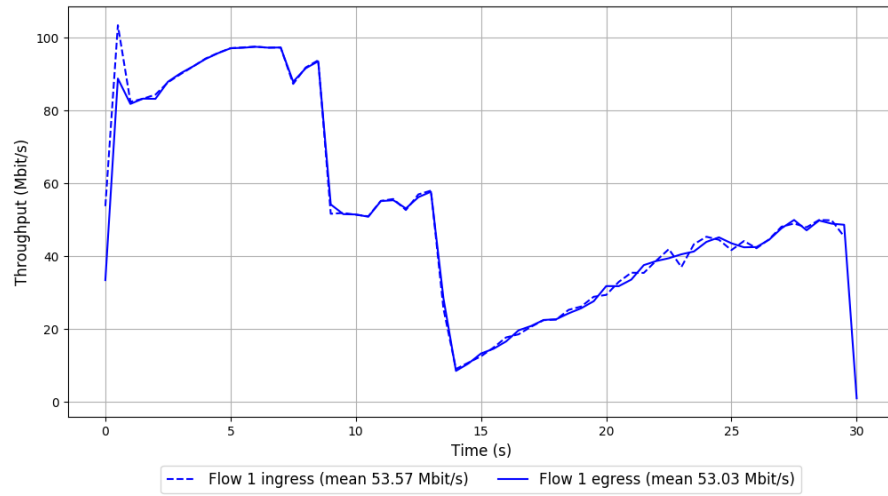


Run 3: Statistics of TCP Vegas

Start at: 2017-11-16 00:13:42
End at: 2017-11-16 00:14:12
Local clock offset: -0.255 ms
Remote clock offset: -2.504 ms

Below is generated by plot.py at 2017-11-16 03:20:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.03 Mbit/s
95th percentile per-packet one-way delay: 29.946 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 53.03 Mbit/s
95th percentile per-packet one-way delay: 29.946 ms
Loss rate: 1.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2017-11-16 00:34:38

End at: 2017-11-16 00:35:08

Local clock offset: -0.554 ms

Remote clock offset: 0.019 ms

Below is generated by plot.py at 2017-11-16 03:20:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 31.062 ms

Loss rate: 0.05%

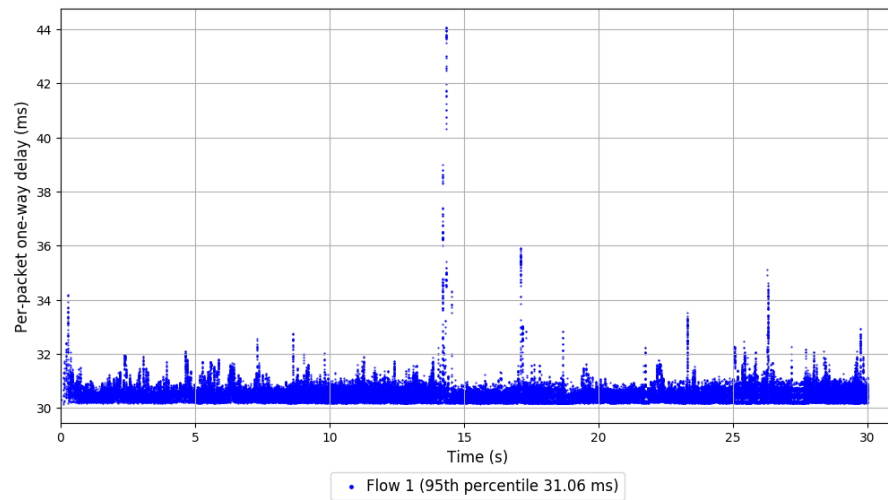
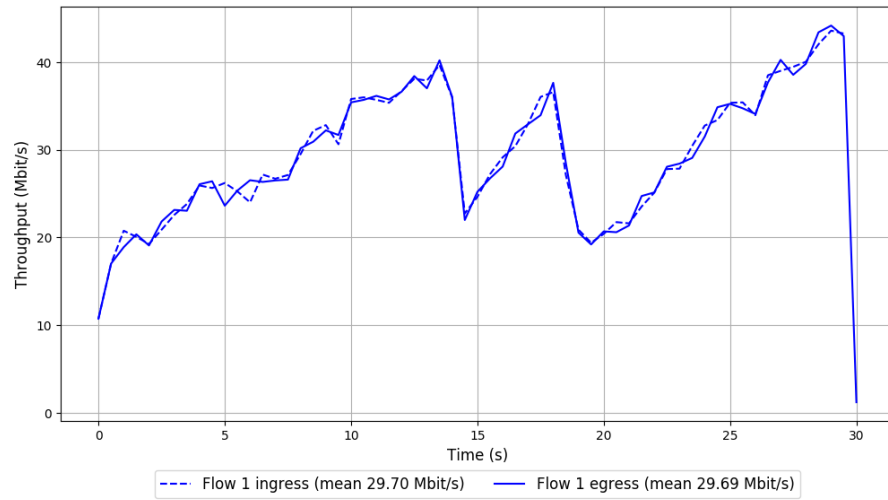
-- Flow 1:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 31.062 ms

Loss rate: 0.05%

Run 4: Report of TCP Vegas — Data Link

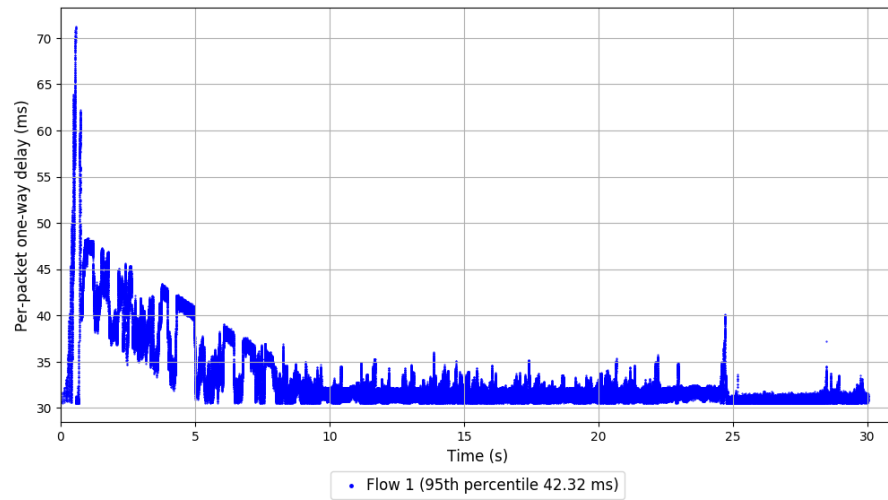
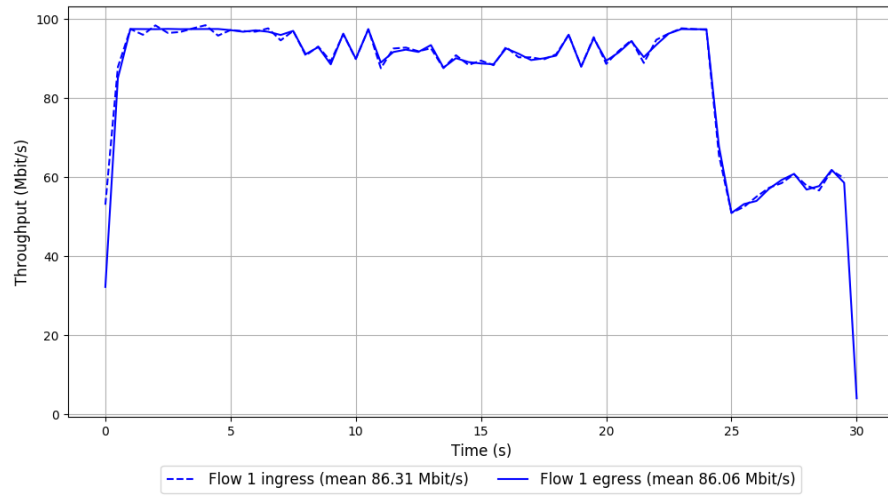


Run 5: Statistics of TCP Vegas

Start at: 2017-11-16 00:55:36
End at: 2017-11-16 00:56:06
Local clock offset: -0.627 ms
Remote clock offset: -1.009 ms

Below is generated by plot.py at 2017-11-16 03:20:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 42.316 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 86.06 Mbit/s
95th percentile per-packet one-way delay: 42.316 ms
Loss rate: 0.29%

Run 5: Report of TCP Vegas — Data Link

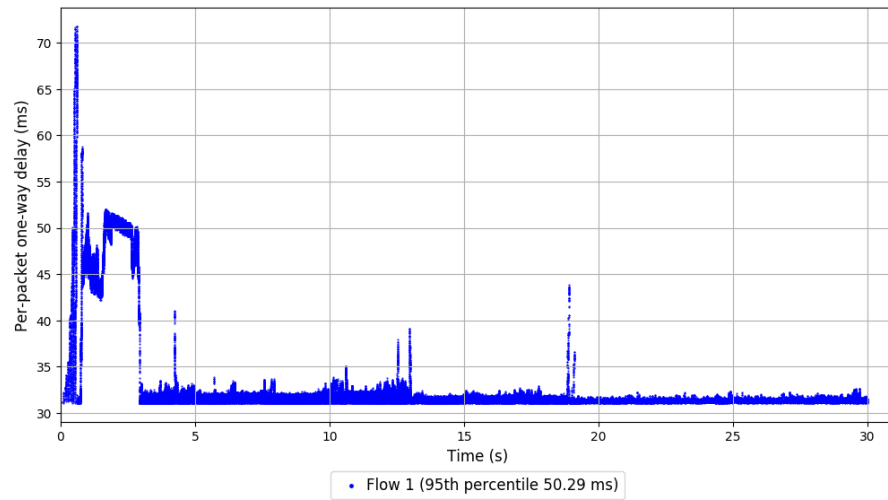
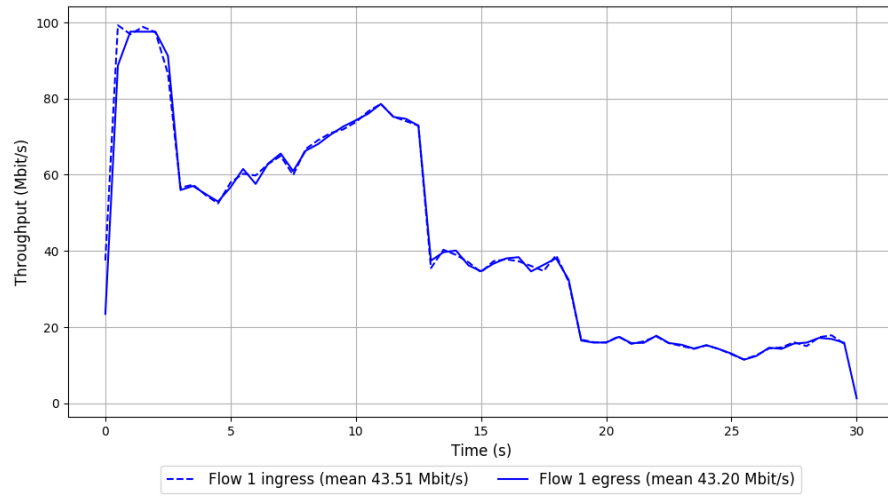


Run 6: Statistics of TCP Vegas

Start at: 2017-11-16 01:16:58
End at: 2017-11-16 01:17:28
Local clock offset: -0.804 ms
Remote clock offset: -0.551 ms

Below is generated by plot.py at 2017-11-16 03:20:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 43.20 Mbit/s
95th percentile per-packet one-way delay: 50.293 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 43.20 Mbit/s
95th percentile per-packet one-way delay: 50.293 ms
Loss rate: 0.71%

Run 6: Report of TCP Vegas — Data Link

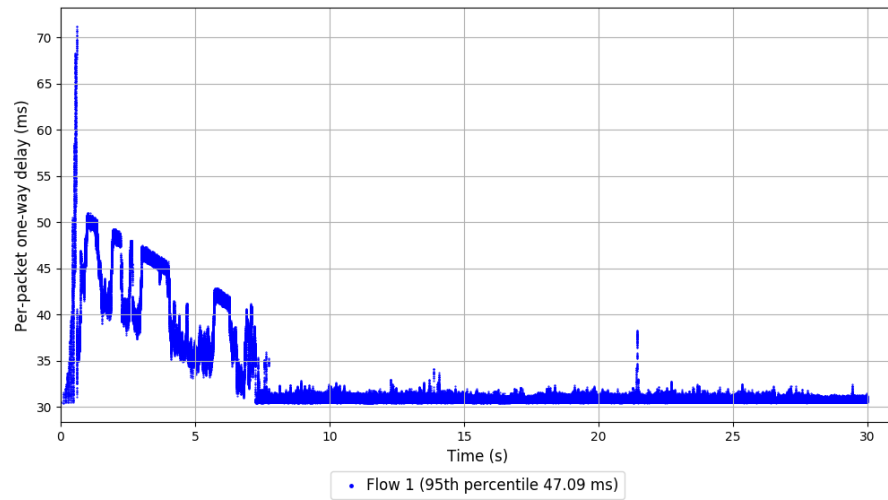
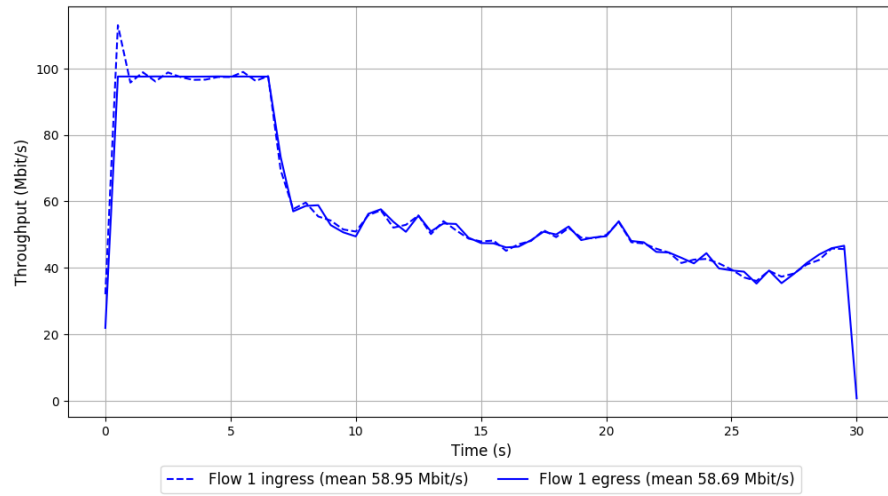


Run 7: Statistics of TCP Vegas

Start at: 2017-11-16 01:39:31
End at: 2017-11-16 01:40:01
Local clock offset: -0.58 ms
Remote clock offset: -0.968 ms

Below is generated by plot.py at 2017-11-16 03:20:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 58.69 Mbit/s
95th percentile per-packet one-way delay: 47.086 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 58.69 Mbit/s
95th percentile per-packet one-way delay: 47.086 ms
Loss rate: 0.44%

Run 7: Report of TCP Vegas — Data Link

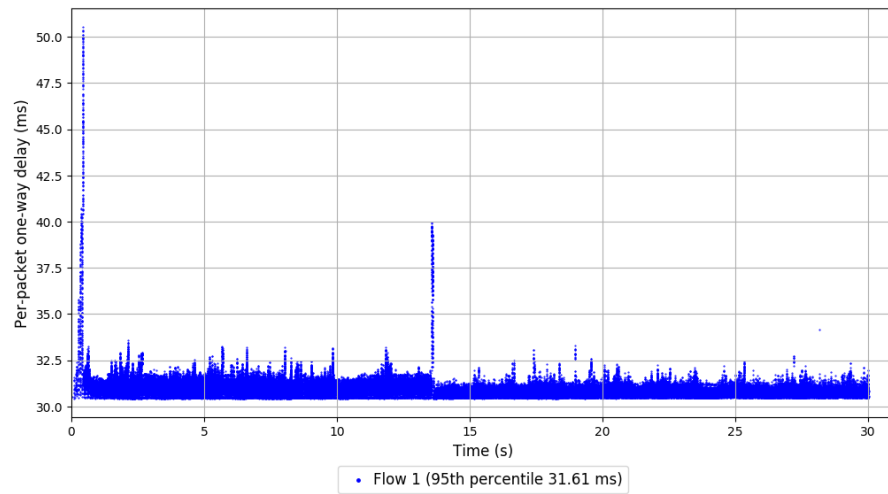
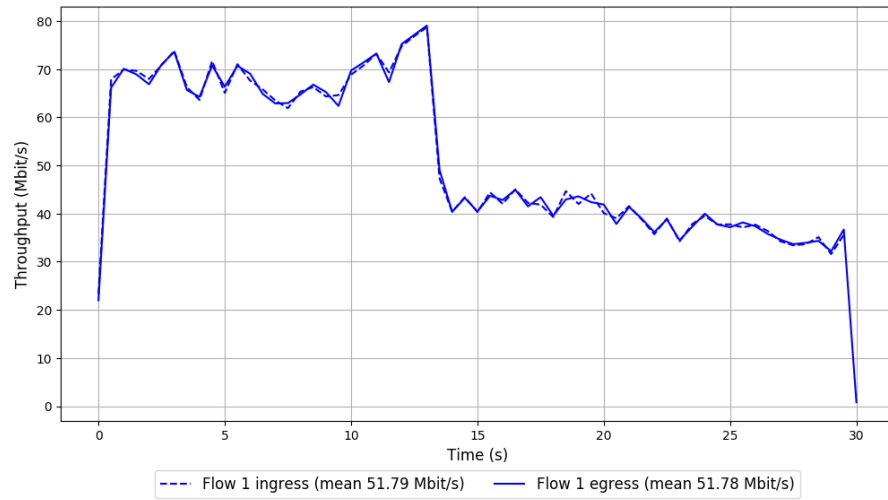


Run 8: Statistics of TCP Vegas

Start at: 2017-11-16 02:01:24
End at: 2017-11-16 02:01:54
Local clock offset: 0.22 ms
Remote clock offset: -1.379 ms

Below is generated by plot.py at 2017-11-16 03:20:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 31.612 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 51.78 Mbit/s
95th percentile per-packet one-way delay: 31.612 ms
Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2017-11-16 02:22:55

End at: 2017-11-16 02:23:25

Local clock offset: 0.372 ms

Remote clock offset: -3.683 ms

Below is generated by plot.py at 2017-11-16 03:20:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 29.173 ms

Loss rate: 0.03%

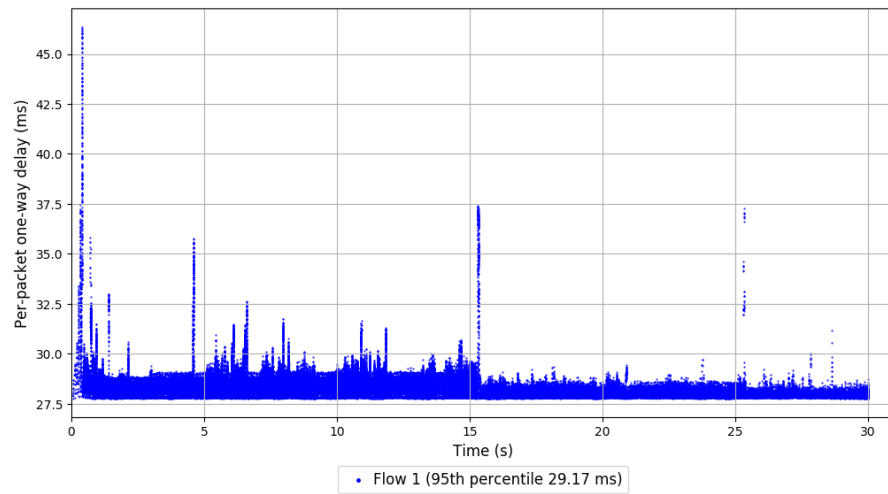
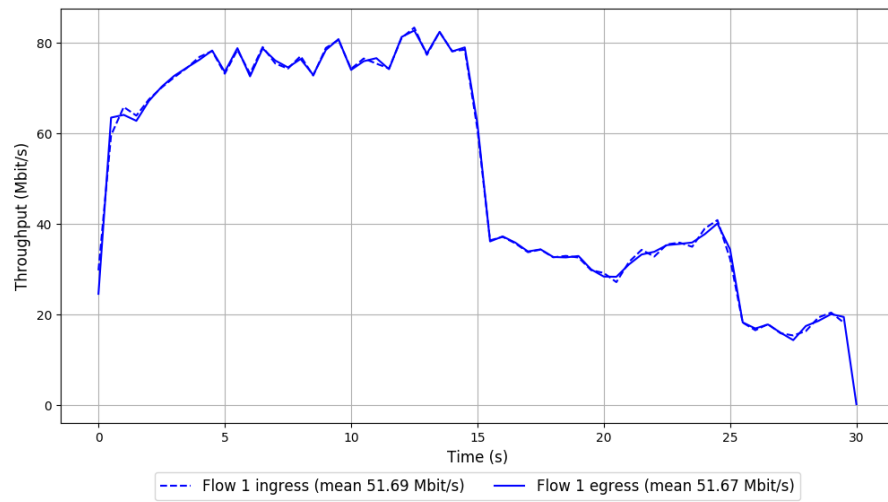
-- Flow 1:

Average throughput: 51.67 Mbit/s

95th percentile per-packet one-way delay: 29.173 ms

Loss rate: 0.03%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2017-11-16 02:44:45

End at: 2017-11-16 02:45:15

Local clock offset: 0.612 ms

Remote clock offset: -3.217 ms

Below is generated by plot.py at 2017-11-16 03:20:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 28.446 ms

Loss rate: 0.02%

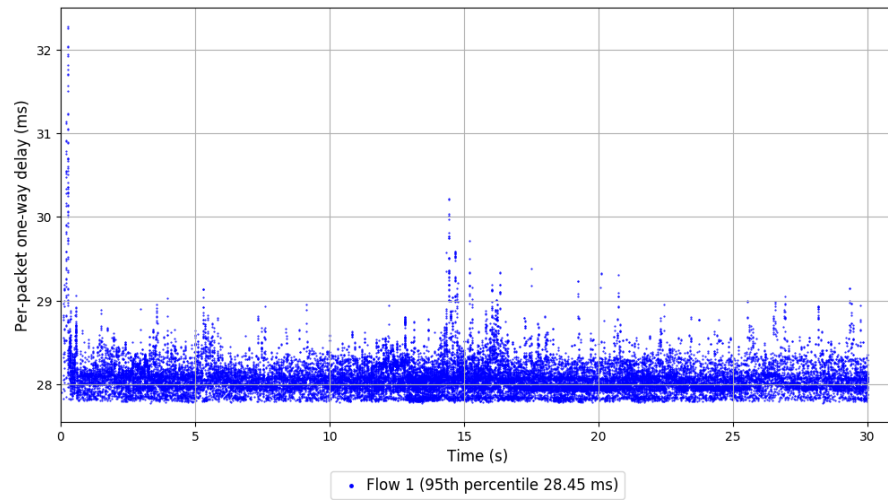
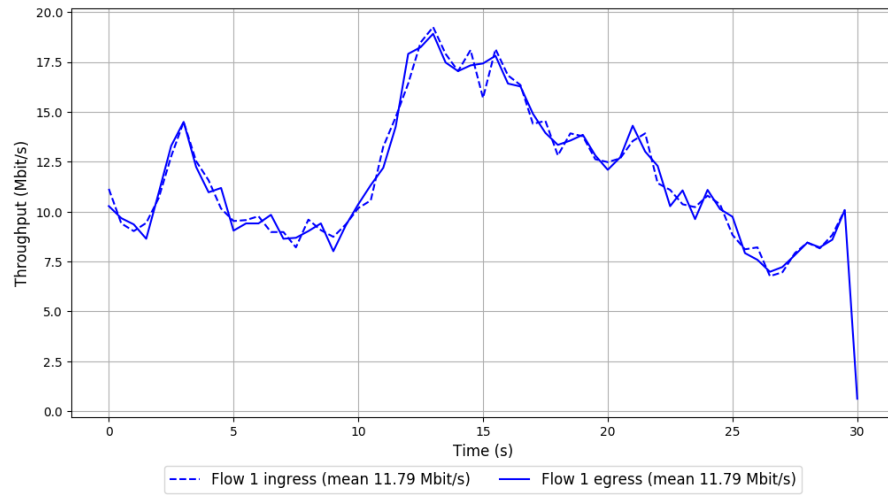
-- Flow 1:

Average throughput: 11.79 Mbit/s

95th percentile per-packet one-way delay: 28.446 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link

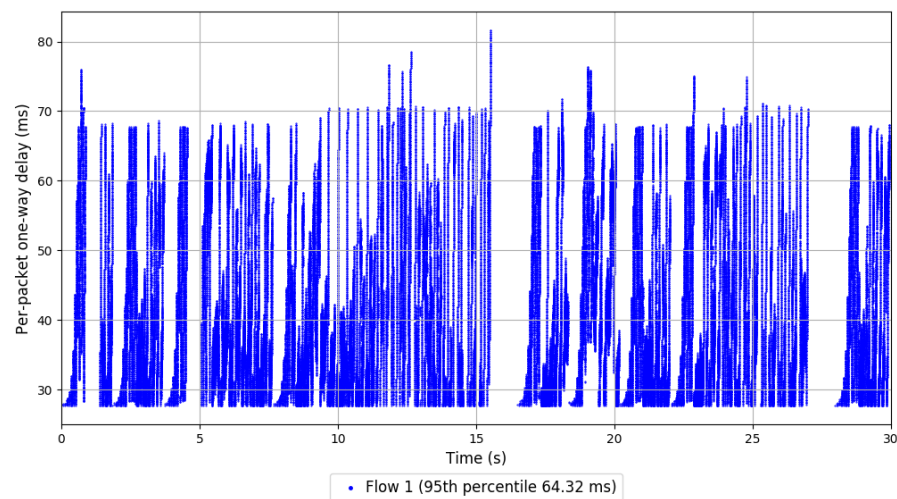
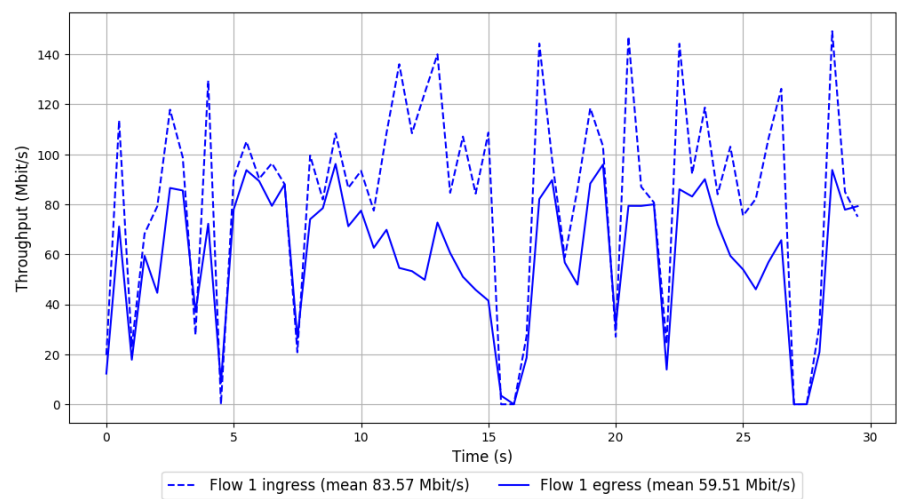


Run 1: Statistics of Verus

Start at: 2017-11-15 23:24:53
End at: 2017-11-15 23:25:23
Local clock offset: -0.75 ms
Remote clock offset: -1.994 ms

Below is generated by plot.py at 2017-11-16 03:20:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 64.317 ms
Loss rate: 28.71%
-- Flow 1:
Average throughput: 59.51 Mbit/s
95th percentile per-packet one-way delay: 64.317 ms
Loss rate: 28.71%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-11-15 23:44:24

End at: 2017-11-15 23:44:54

Local clock offset: -0.446 ms

Remote clock offset: 0.503 ms

Below is generated by plot.py at 2017-11-16 03:21:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 68.826 ms

Loss rate: 51.42%

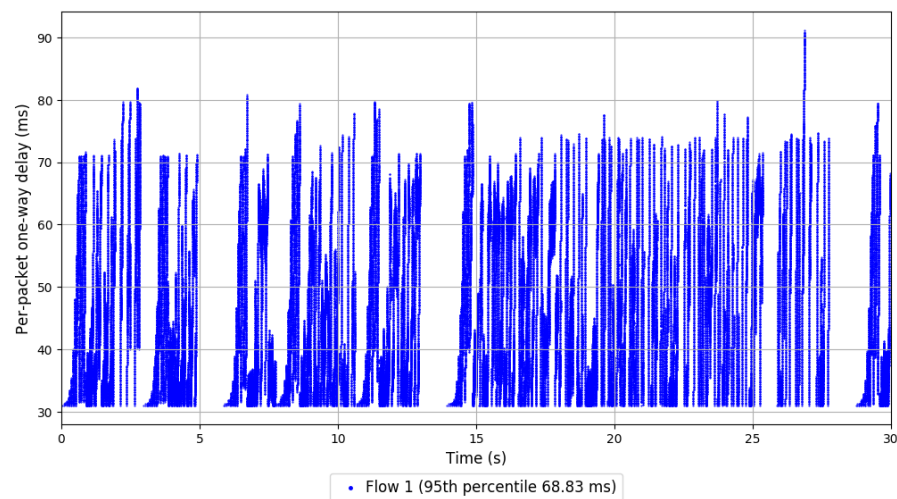
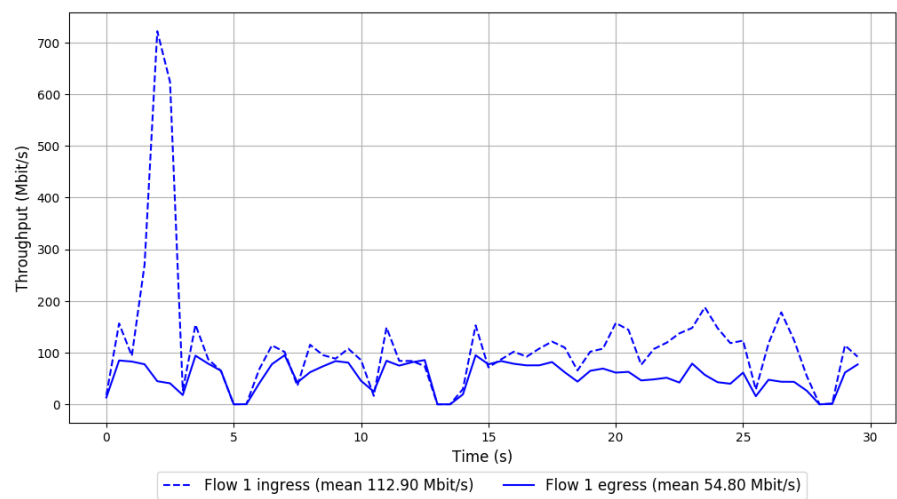
-- Flow 1:

Average throughput: 54.80 Mbit/s

95th percentile per-packet one-way delay: 68.826 ms

Loss rate: 51.42%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2017-11-16 00:04:12

End at: 2017-11-16 00:04:42

Local clock offset: -0.185 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2017-11-16 03:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 70.608 ms

Loss rate: 69.17%

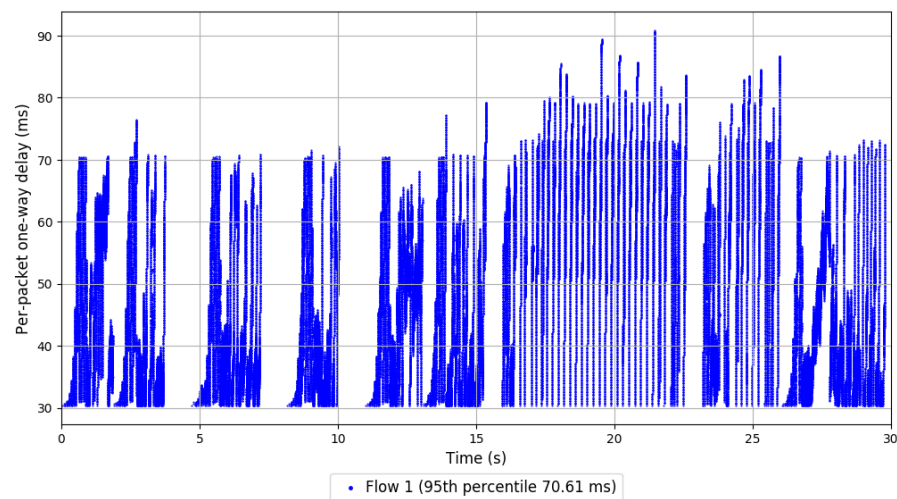
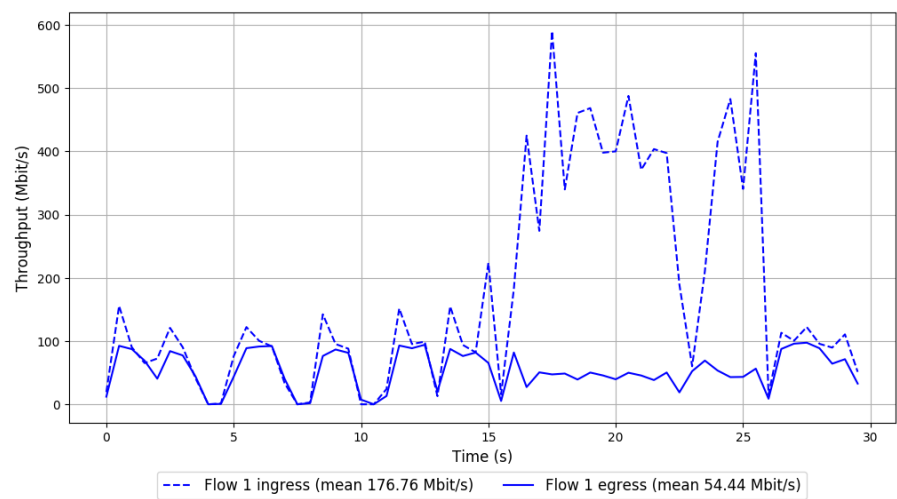
-- Flow 1:

Average throughput: 54.44 Mbit/s

95th percentile per-packet one-way delay: 70.608 ms

Loss rate: 69.17%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2017-11-16 00:24:41

End at: 2017-11-16 00:25:11

Local clock offset: -0.387 ms

Remote clock offset: 0.184 ms

Below is generated by plot.py at 2017-11-16 03:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 66.842 ms

Loss rate: 34.79%

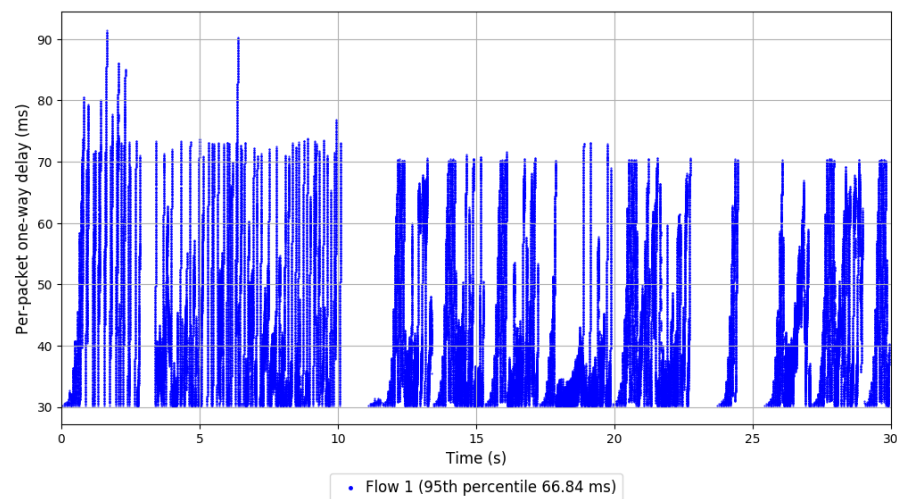
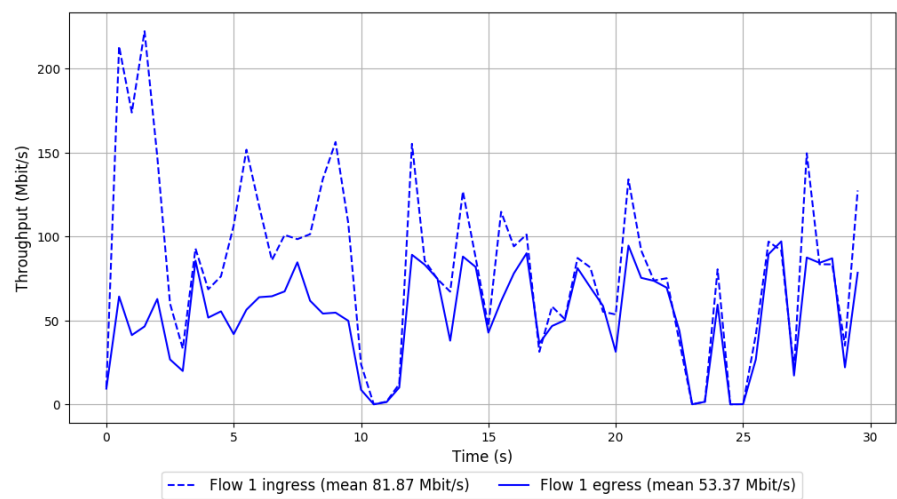
-- Flow 1:

Average throughput: 53.37 Mbit/s

95th percentile per-packet one-way delay: 66.842 ms

Loss rate: 34.79%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2017-11-16 00:45:21

End at: 2017-11-16 00:45:51

Local clock offset: -0.549 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2017-11-16 03:21:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 66.188 ms

Loss rate: 30.16%

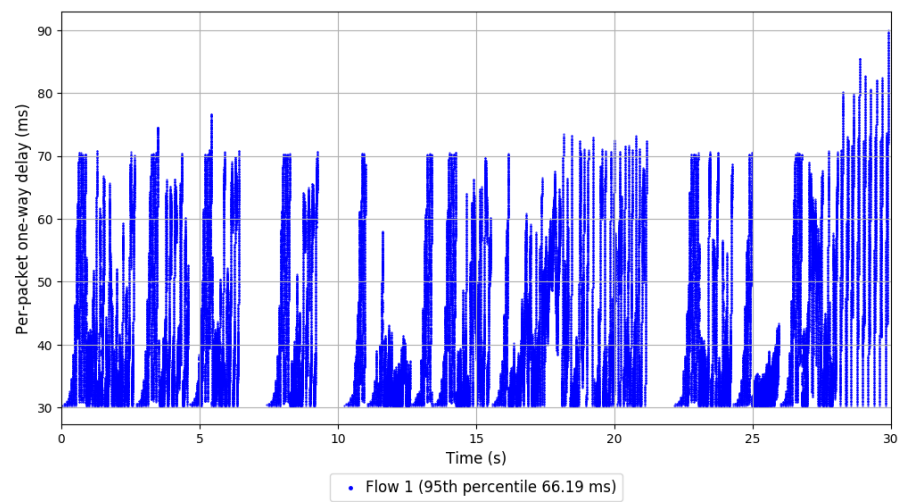
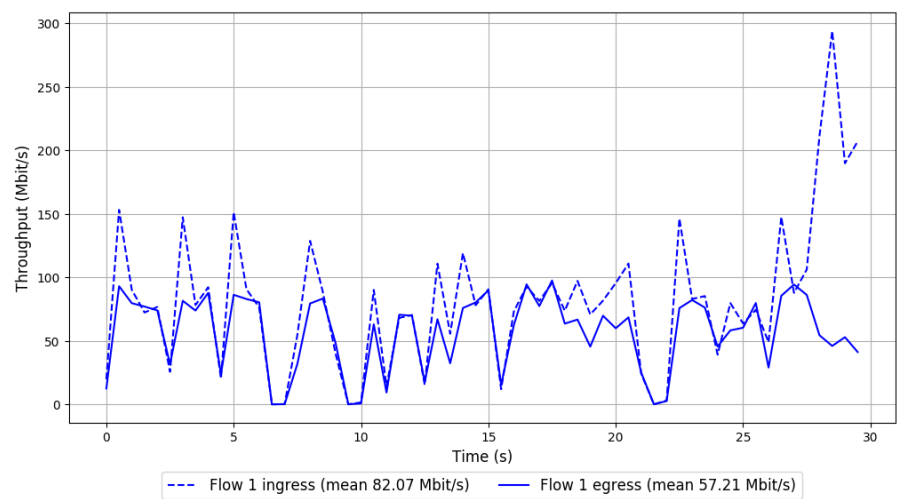
-- Flow 1:

Average throughput: 57.21 Mbit/s

95th percentile per-packet one-way delay: 66.188 ms

Loss rate: 30.16%

Run 5: Report of Verus — Data Link

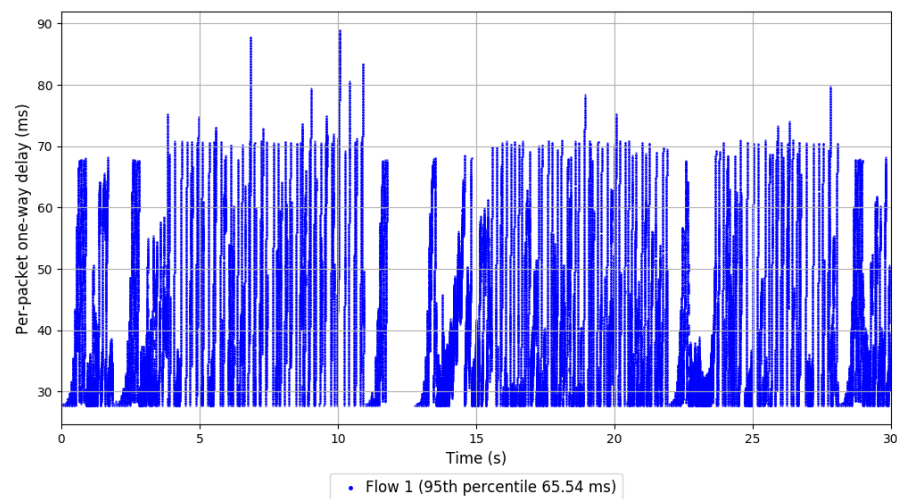
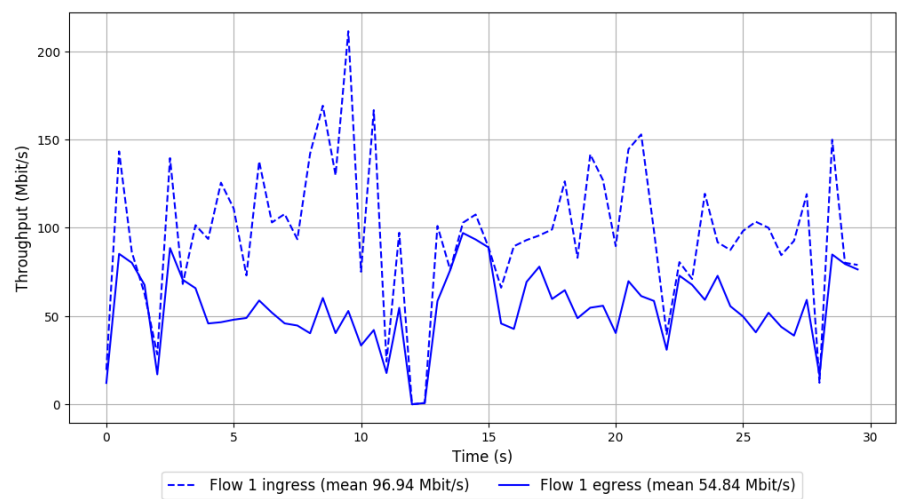


Run 6: Statistics of Verus

Start at: 2017-11-16 01:06:50
End at: 2017-11-16 01:07:20
Local clock offset: -0.652 ms
Remote clock offset: -3.163 ms

Below is generated by plot.py at 2017-11-16 03:21:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 65.543 ms
Loss rate: 43.41%
-- Flow 1:
Average throughput: 54.84 Mbit/s
95th percentile per-packet one-way delay: 65.543 ms
Loss rate: 43.41%

Run 6: Report of Verus — Data Link

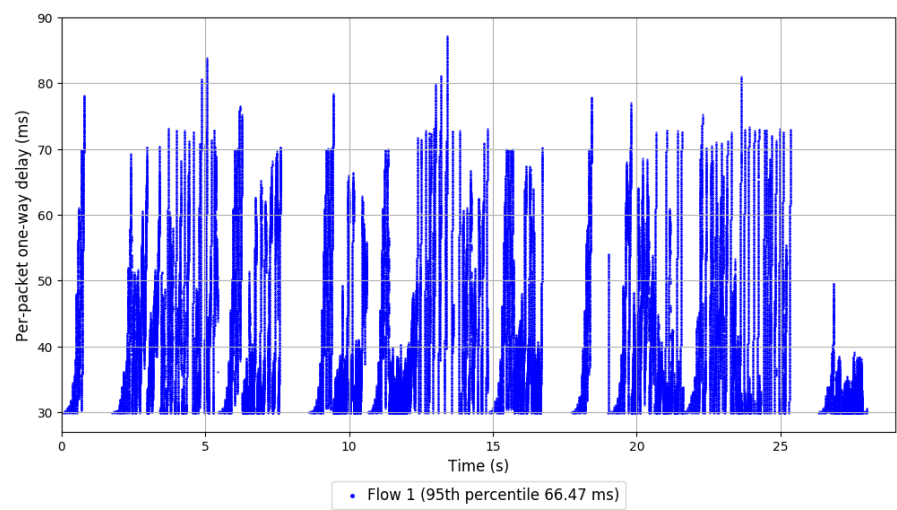
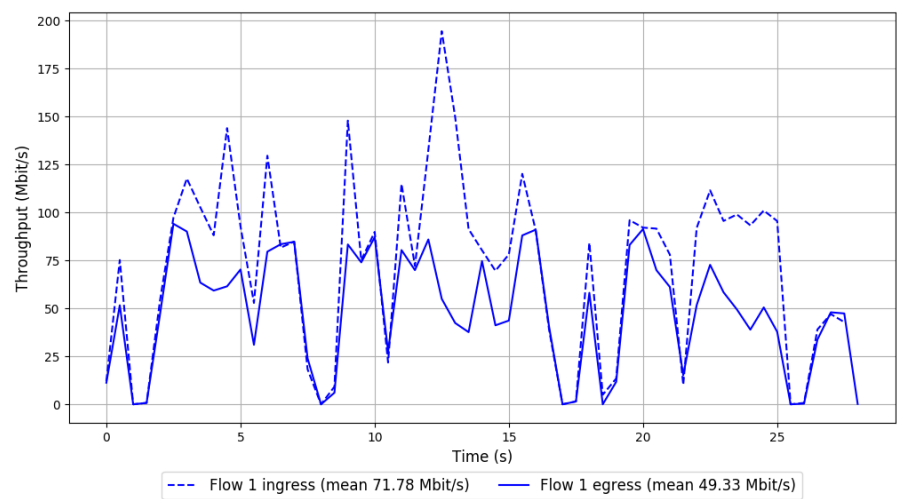


Run 7: Statistics of Verus

Start at: 2017-11-16 01:28:29
End at: 2017-11-16 01:28:59
Local clock offset: -0.833 ms
Remote clock offset: -0.955 ms

Below is generated by plot.py at 2017-11-16 03:21:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 66.473 ms
Loss rate: 31.28%
-- Flow 1:
Average throughput: 49.33 Mbit/s
95th percentile per-packet one-way delay: 66.473 ms
Loss rate: 31.28%

Run 7: Report of Verus — Data Link

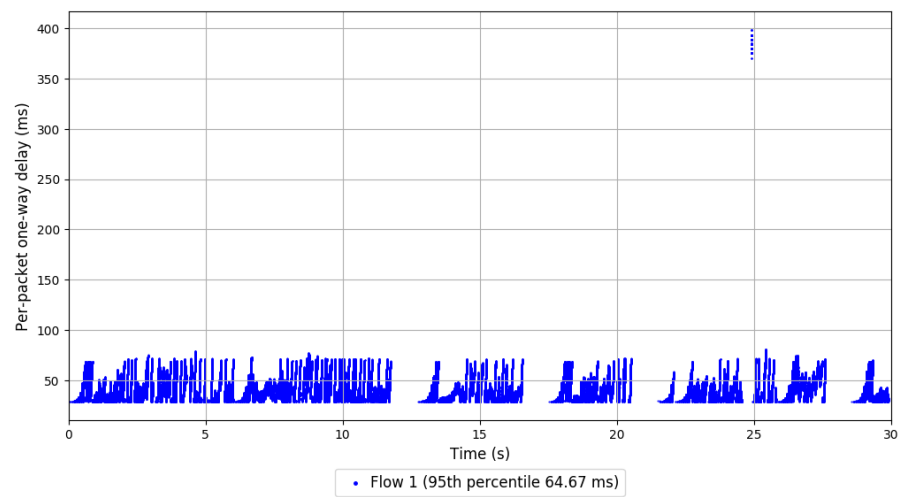
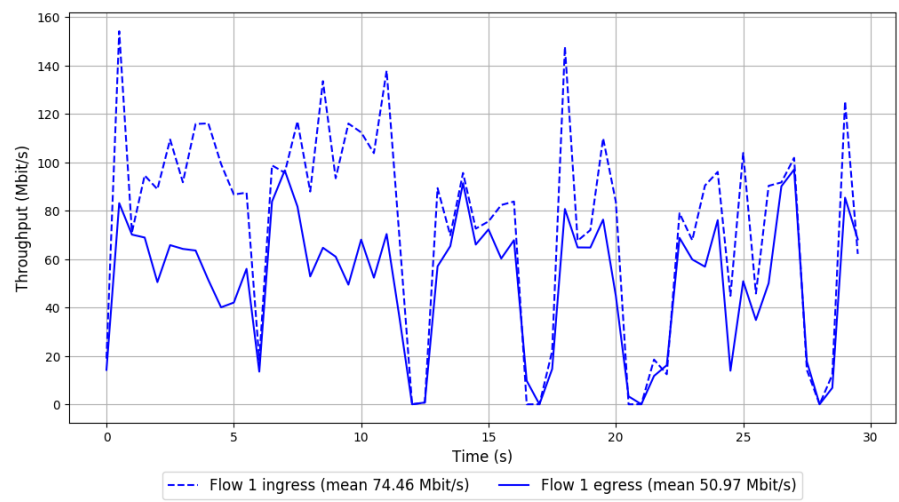


Run 8: Statistics of Verus

Start at: 2017-11-16 01:50:41
End at: 2017-11-16 01:51:11
Local clock offset: -0.14 ms
Remote clock offset: -3.065 ms

Below is generated by plot.py at 2017-11-16 03:21:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.97 Mbit/s
95th percentile per-packet one-way delay: 64.667 ms
Loss rate: 31.54%
-- Flow 1:
Average throughput: 50.97 Mbit/s
95th percentile per-packet one-way delay: 64.667 ms
Loss rate: 31.54%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

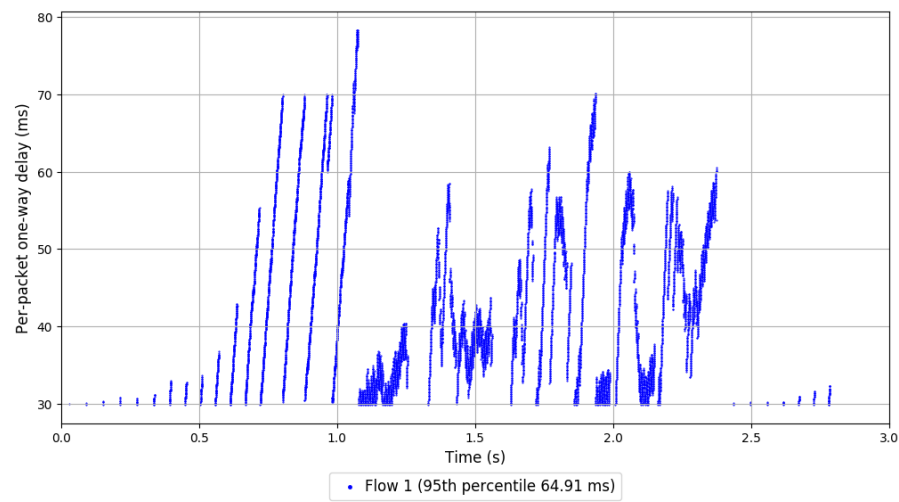
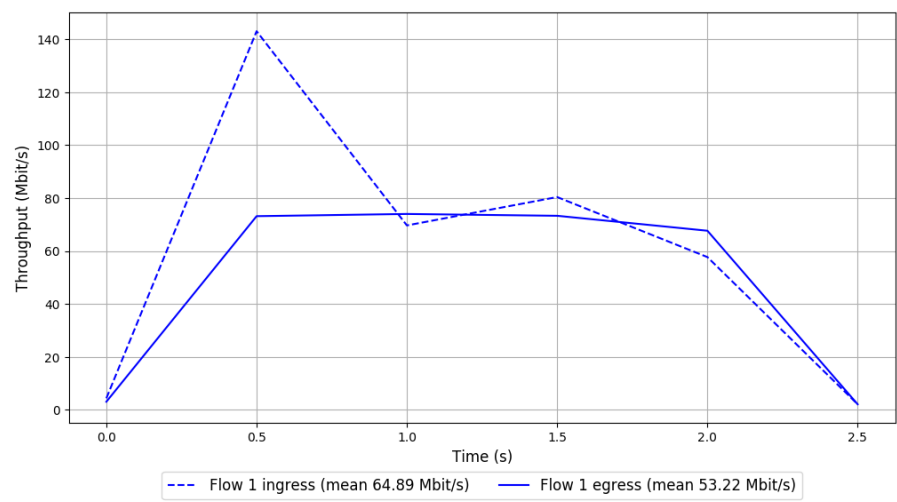
Start at: 2017-11-16 02:12:30

End at: 2017-11-16 02:13:00

Local clock offset: 0.338 ms

Remote clock offset: -1.498 ms

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

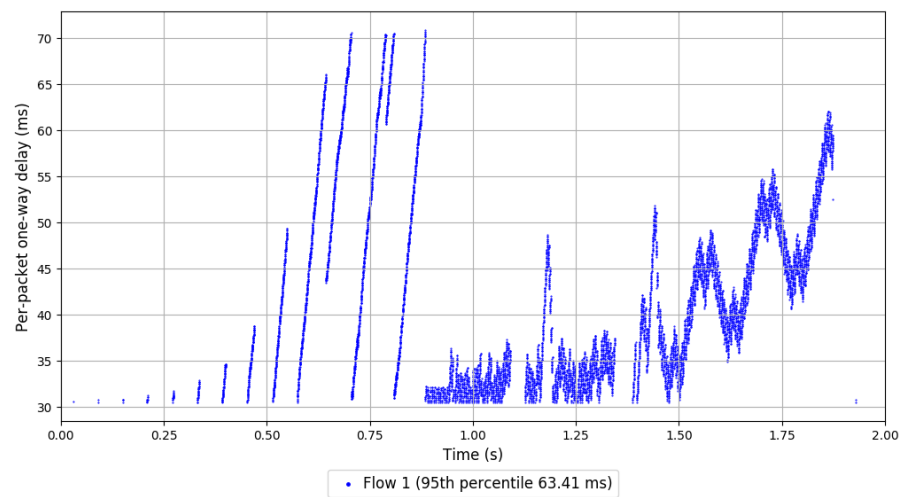
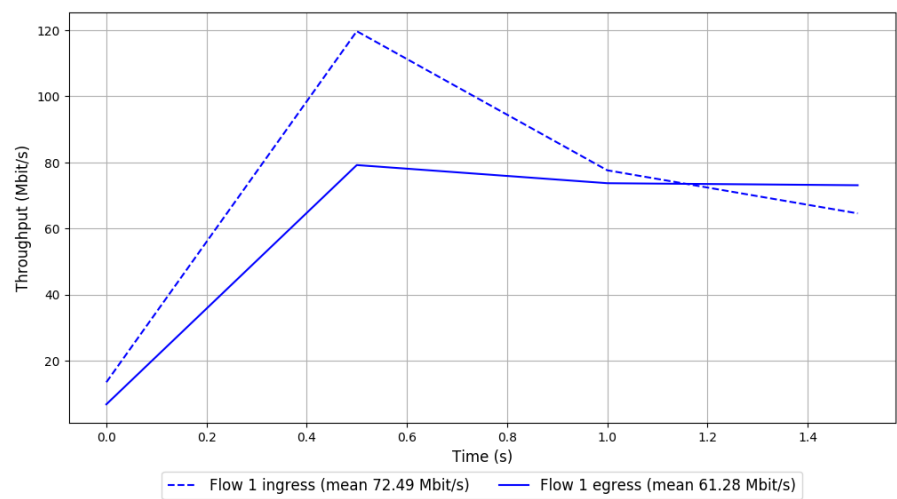
Start at: 2017-11-16 02:33:59

End at: 2017-11-16 02:34:29

Local clock offset: 0.554 ms

Remote clock offset: -1.506 ms

Run 10: Report of Verus — Data Link



Run 1: Statistics of Copa

Start at: 2017-11-15 23:35:33

End at: 2017-11-15 23:36:03

Local clock offset: -0.713 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2017-11-16 03:23:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 36.412 ms

Loss rate: 0.09%

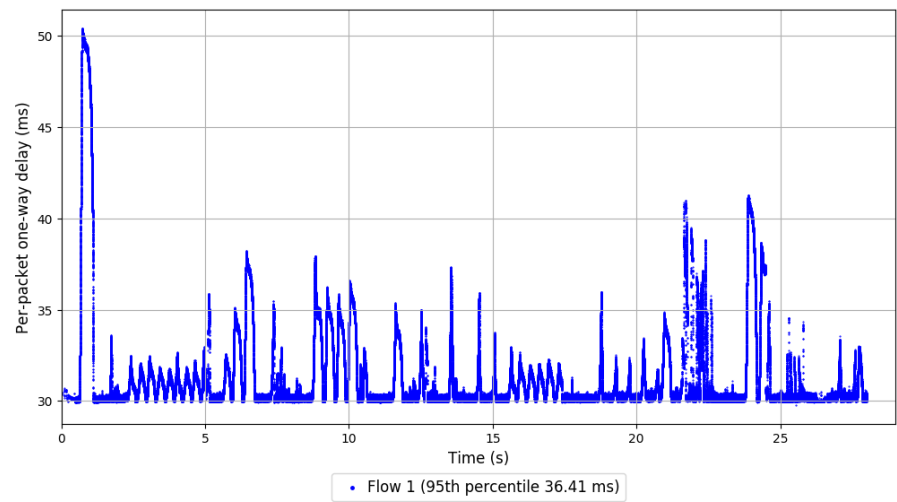
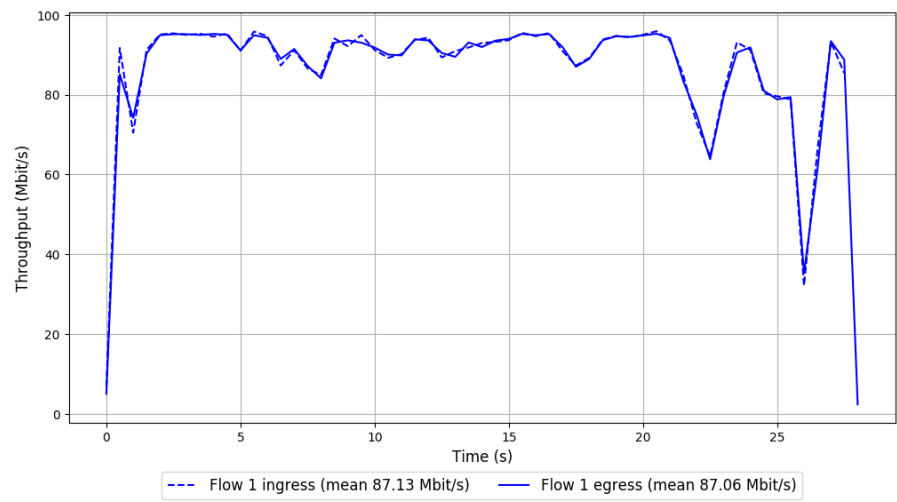
-- Flow 1:

Average throughput: 87.06 Mbit/s

95th percentile per-packet one-way delay: 36.412 ms

Loss rate: 0.09%

Run 1: Report of Copa — Data Link

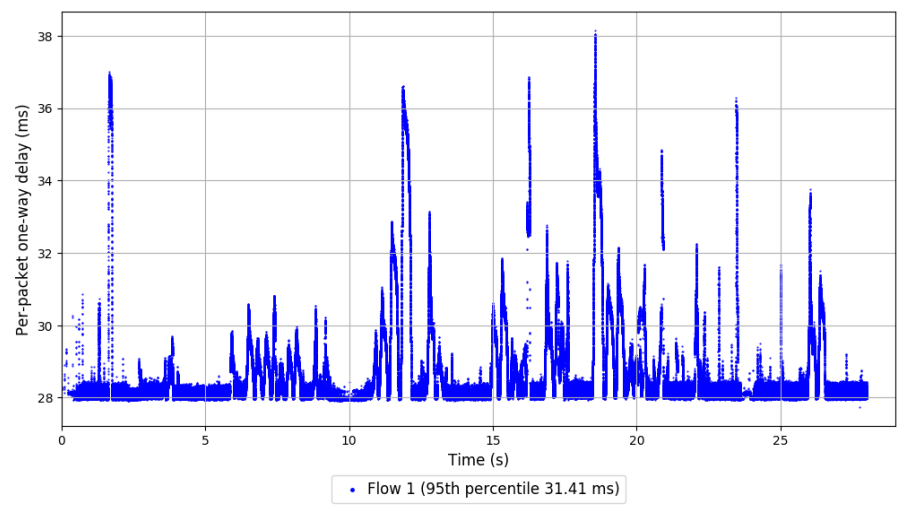
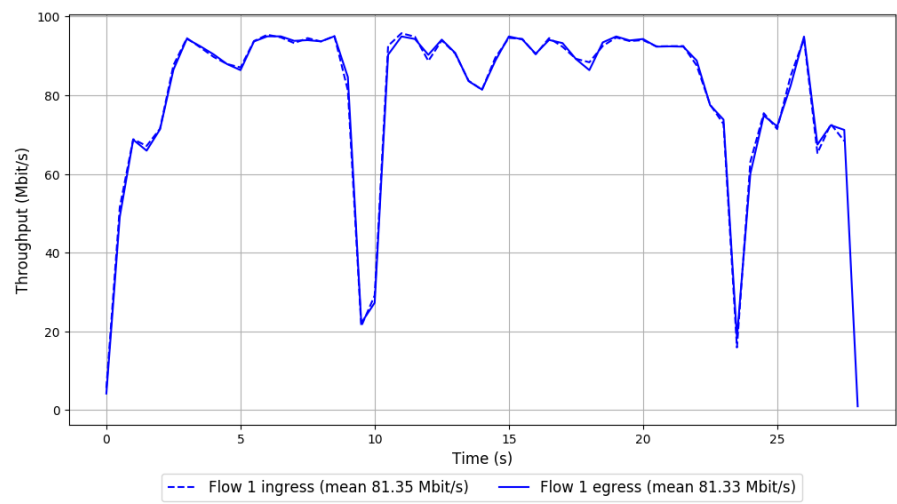


Run 2: Statistics of Copa

Start at: 2017-11-15 23:55:14
End at: 2017-11-15 23:55:44
Local clock offset: -0.373 ms
Remote clock offset: -2.258 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.33 Mbit/s
95th percentile per-packet one-way delay: 31.410 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 81.33 Mbit/s
95th percentile per-packet one-way delay: 31.410 ms
Loss rate: 0.03%

Run 2: Report of Copa — Data Link

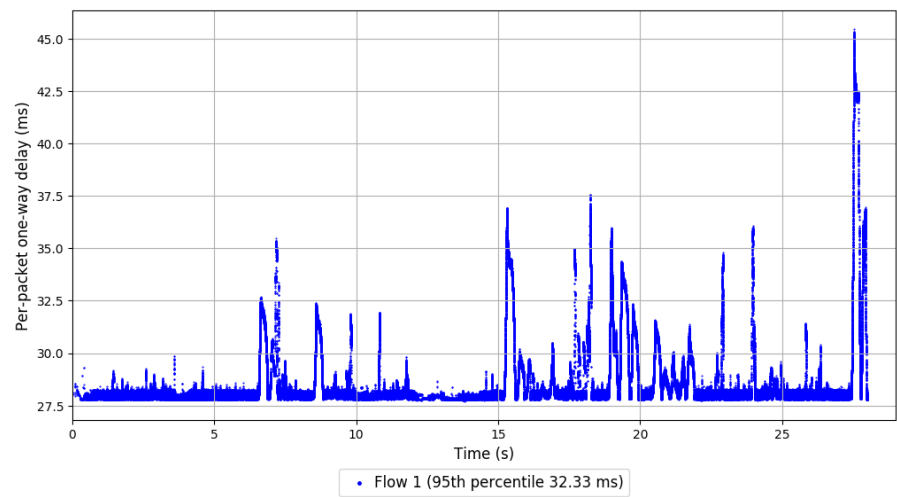
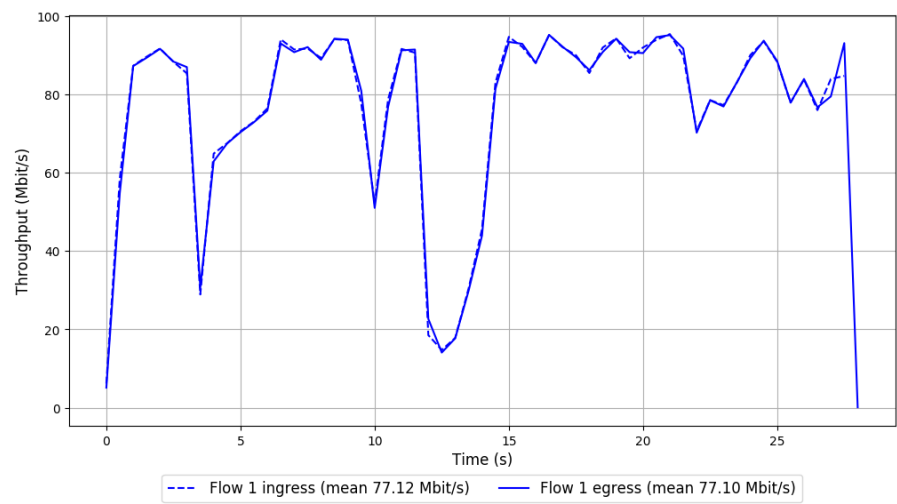


Run 3: Statistics of Copa

Start at: 2017-11-16 00:15:11
End at: 2017-11-16 00:15:41
Local clock offset: -0.358 ms
Remote clock offset: -2.492 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 32.334 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 77.10 Mbit/s
95th percentile per-packet one-way delay: 32.334 ms
Loss rate: 0.03%

Run 3: Report of Copa — Data Link

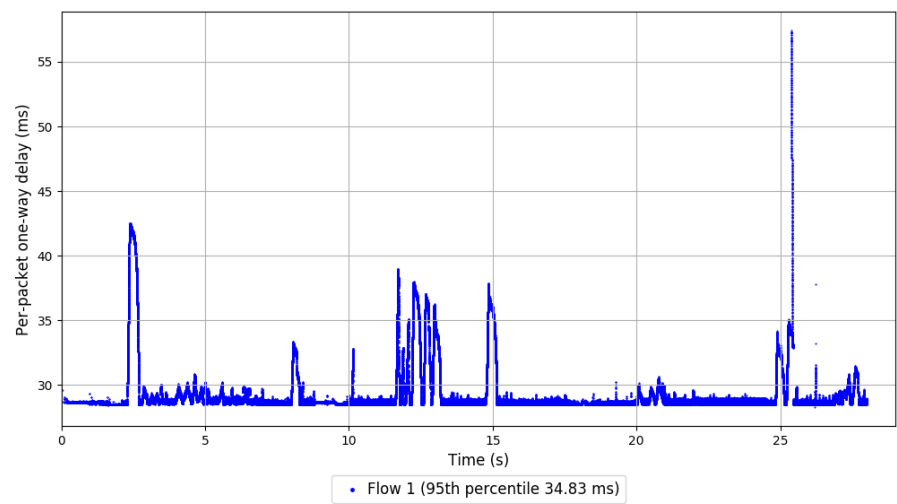
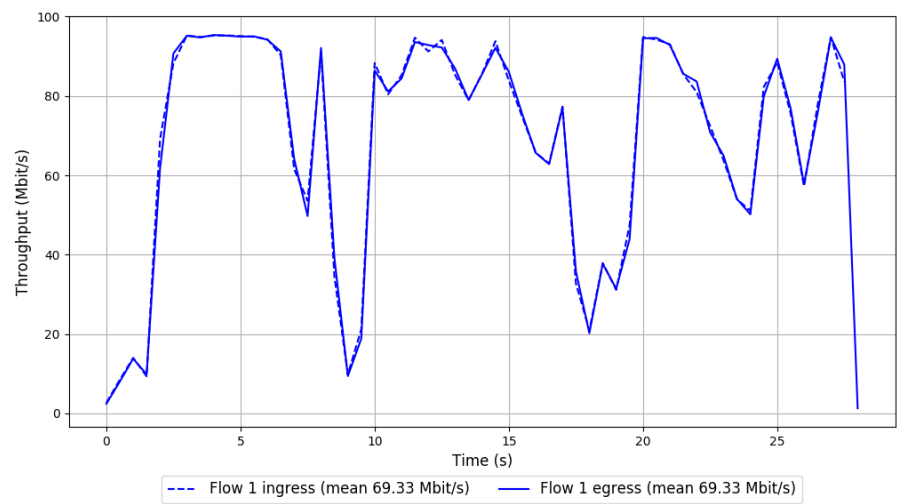


Run 4: Statistics of Copa

Start at: 2017-11-16 00:35:59
End at: 2017-11-16 00:36:29
Local clock offset: -0.642 ms
Remote clock offset: -2.476 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.33 Mbit/s
95th percentile per-packet one-way delay: 34.829 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.33 Mbit/s
95th percentile per-packet one-way delay: 34.829 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

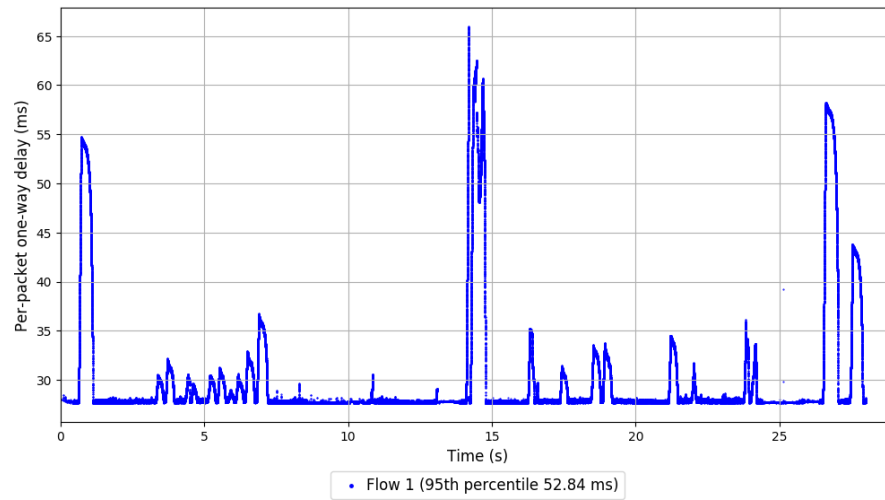
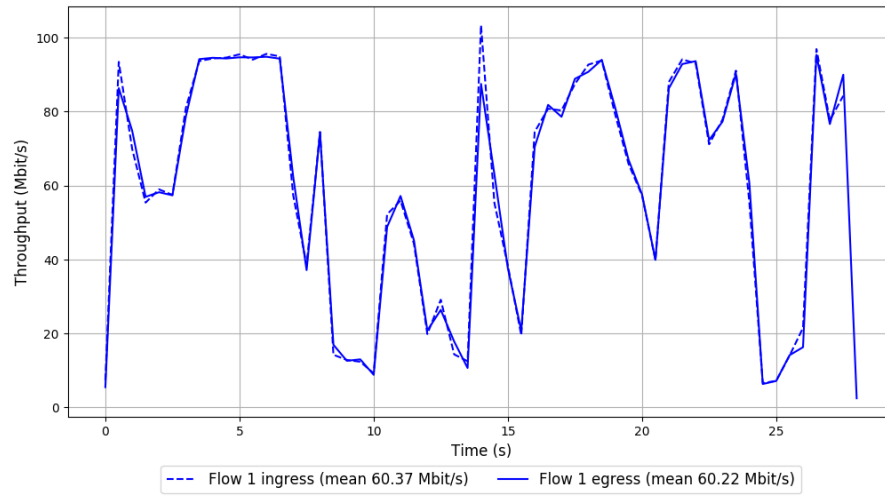


Run 5: Statistics of Copa

Start at: 2017-11-16 00:57:04
End at: 2017-11-16 00:57:34
Local clock offset: -0.545 ms
Remote clock offset: -3.118 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.22 Mbit/s
95th percentile per-packet one-way delay: 52.836 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 60.22 Mbit/s
95th percentile per-packet one-way delay: 52.836 ms
Loss rate: 0.26%

Run 5: Report of Copa — Data Link

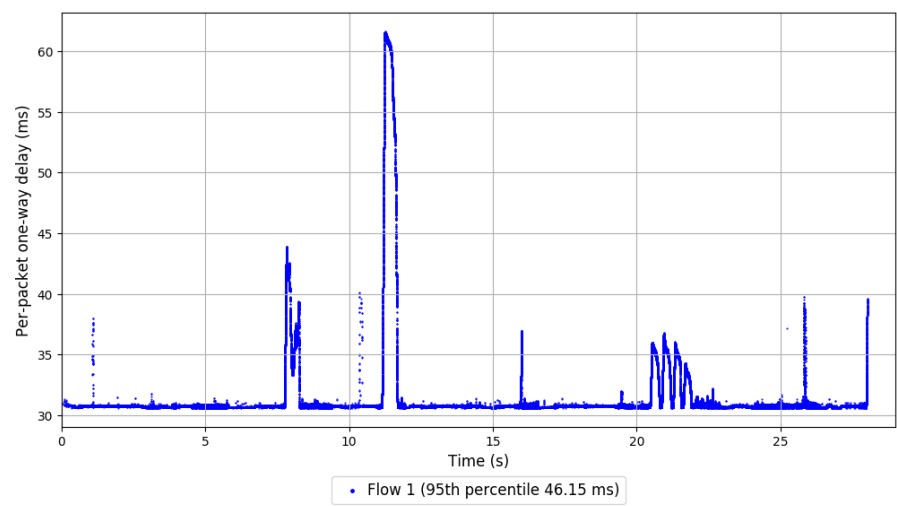
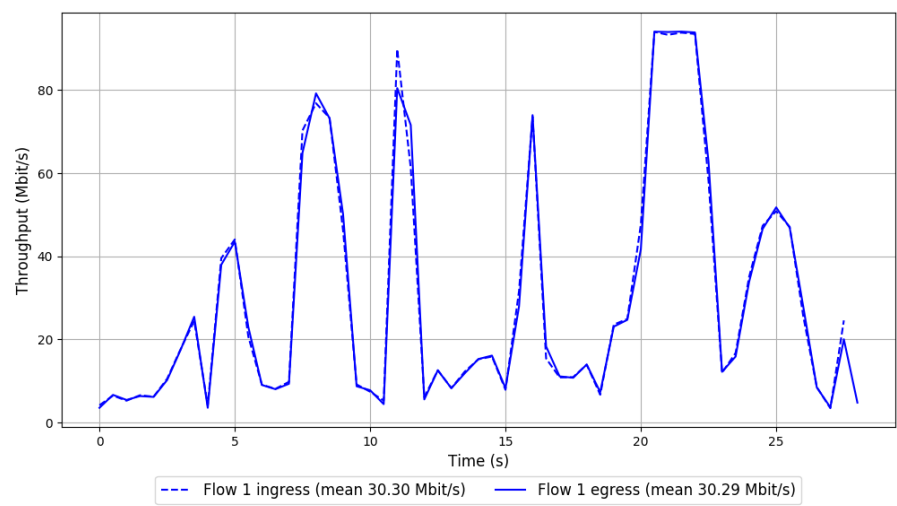


Run 6: Statistics of Copa

Start at: 2017-11-16 01:18:29
End at: 2017-11-16 01:18:59
Local clock offset: -0.812 ms
Remote clock offset: -1.031 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 46.153 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 30.29 Mbit/s
95th percentile per-packet one-way delay: 46.153 ms
Loss rate: 0.01%

Run 6: Report of Copa — Data Link

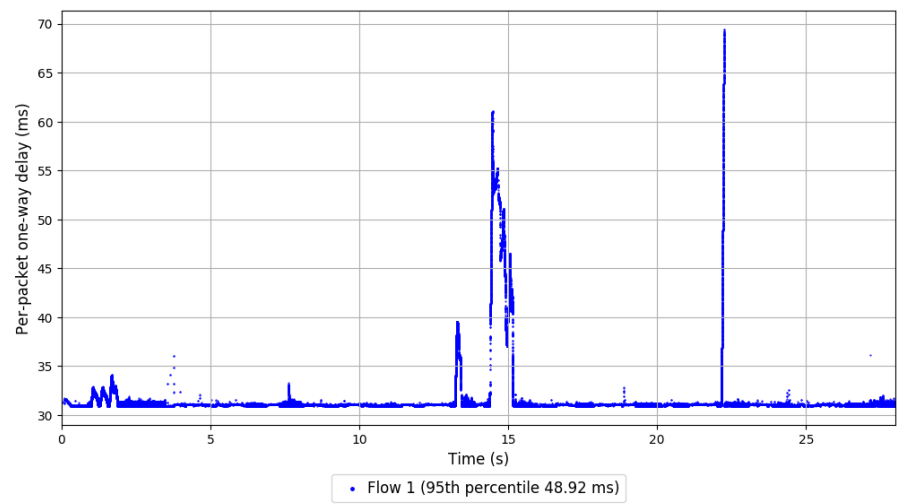
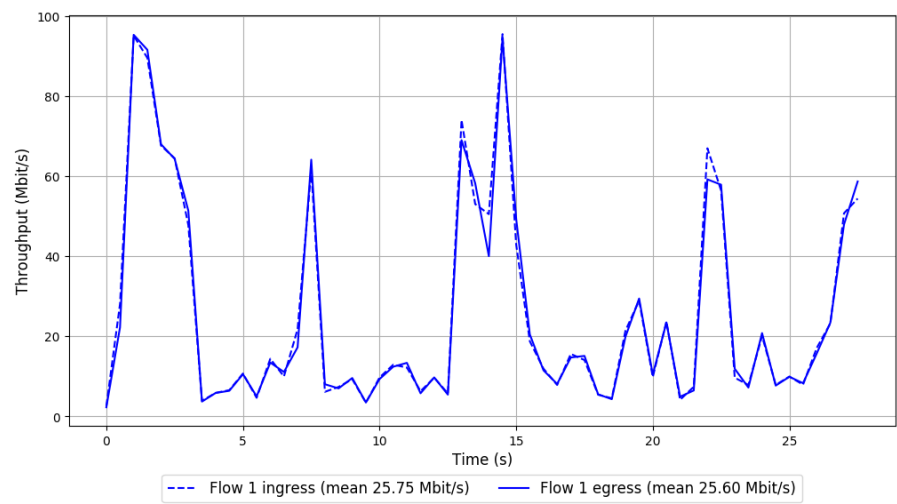


Run 7: Statistics of Copa

Start at: 2017-11-16 01:41:10
End at: 2017-11-16 01:41:40
Local clock offset: -0.518 ms
Remote clock offset: -0.483 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 25.60 Mbit/s
95th percentile per-packet one-way delay: 48.920 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 25.60 Mbit/s
95th percentile per-packet one-way delay: 48.920 ms
Loss rate: 0.59%

Run 7: Report of Copa — Data Link

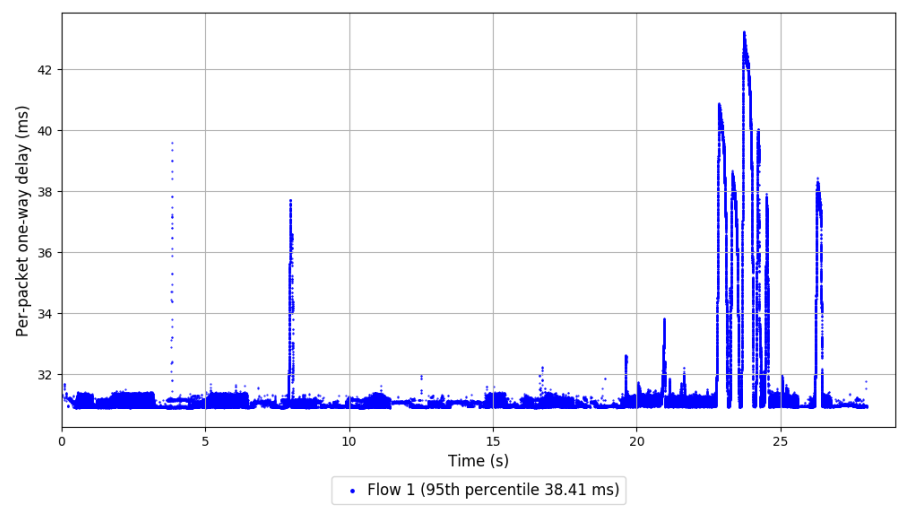
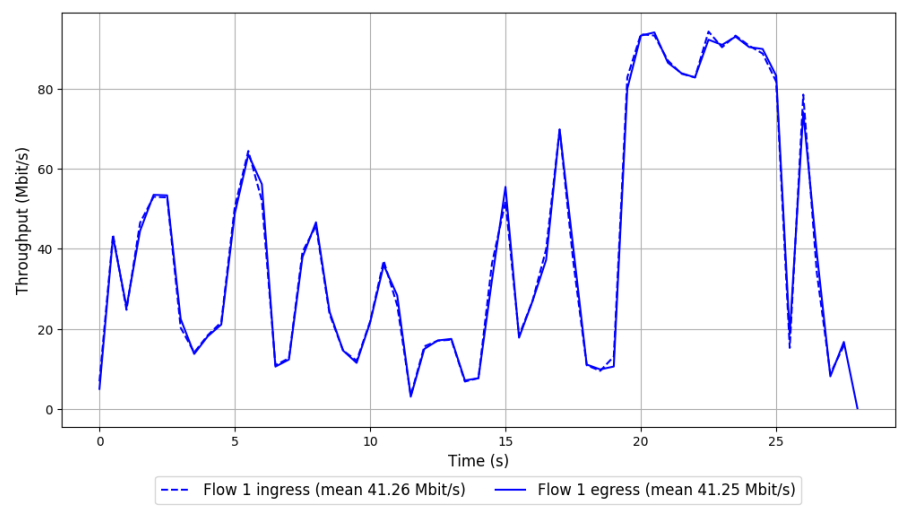


Run 8: Statistics of Copa

Start at: 2017-11-16 02:02:58
End at: 2017-11-16 02:03:28
Local clock offset: 0.242 ms
Remote clock offset: -0.959 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 38.405 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 41.25 Mbit/s
95th percentile per-packet one-way delay: 38.405 ms
Loss rate: 0.02%

Run 8: Report of Copa — Data Link

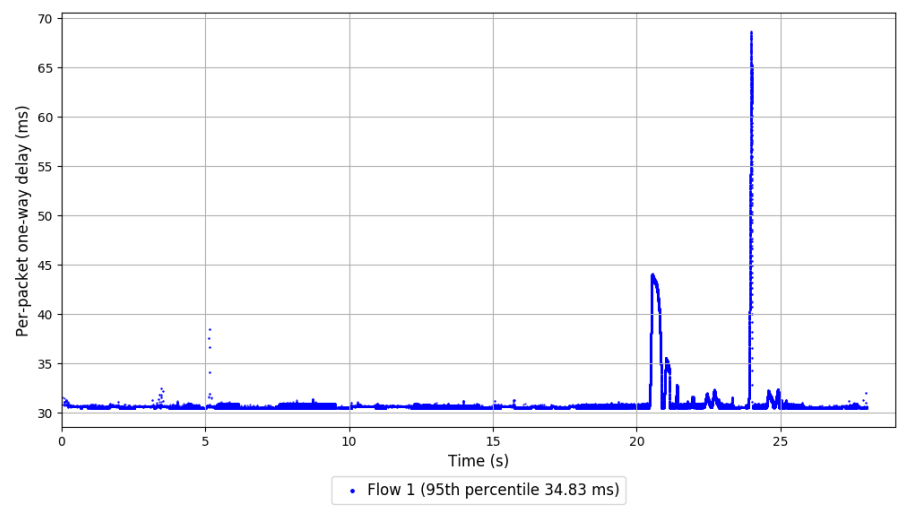
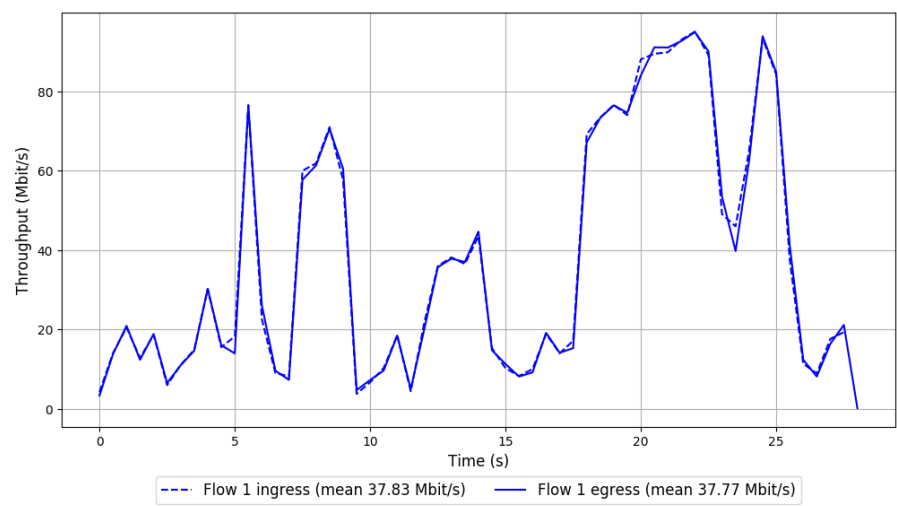


Run 9: Statistics of Copa

Start at: 2017-11-16 02:24:24
End at: 2017-11-16 02:24:54
Local clock offset: 0.392 ms
Remote clock offset: -1.623 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 37.77 Mbit/s
95th percentile per-packet one-way delay: 34.828 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 37.77 Mbit/s
95th percentile per-packet one-way delay: 34.828 ms
Loss rate: 0.18%

Run 9: Report of Copa — Data Link

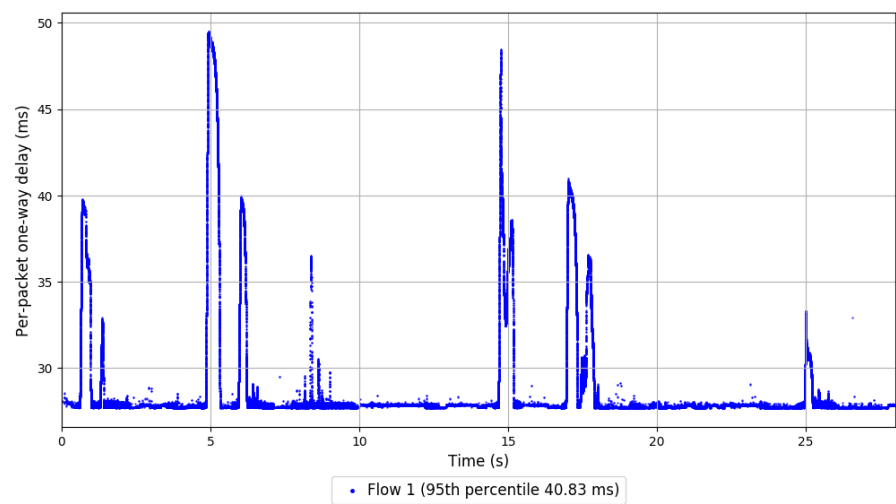
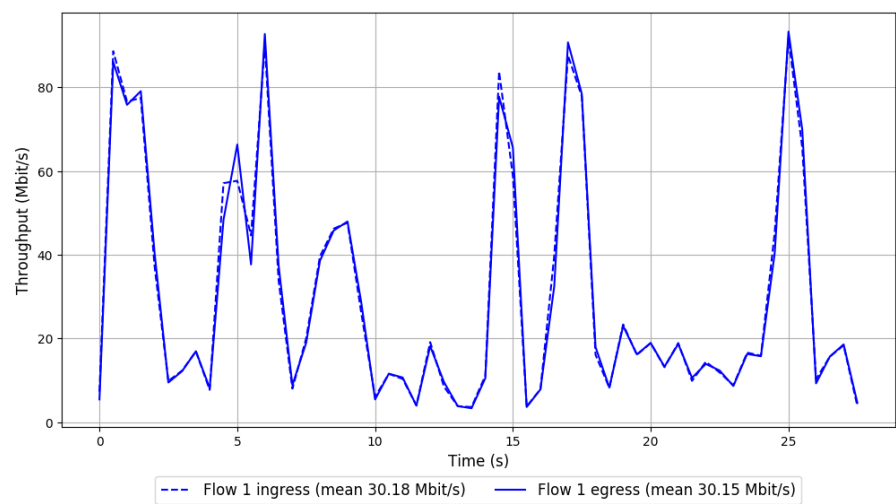


Run 10: Statistics of Copa

Start at: 2017-11-16 02:46:08
End at: 2017-11-16 02:46:38
Local clock offset: 0.656 ms
Remote clock offset: -3.239 ms

Below is generated by plot.py at 2017-11-16 03:23:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 40.830 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 40.830 ms
Loss rate: 0.09%

Run 10: Report of Copa — Data Link

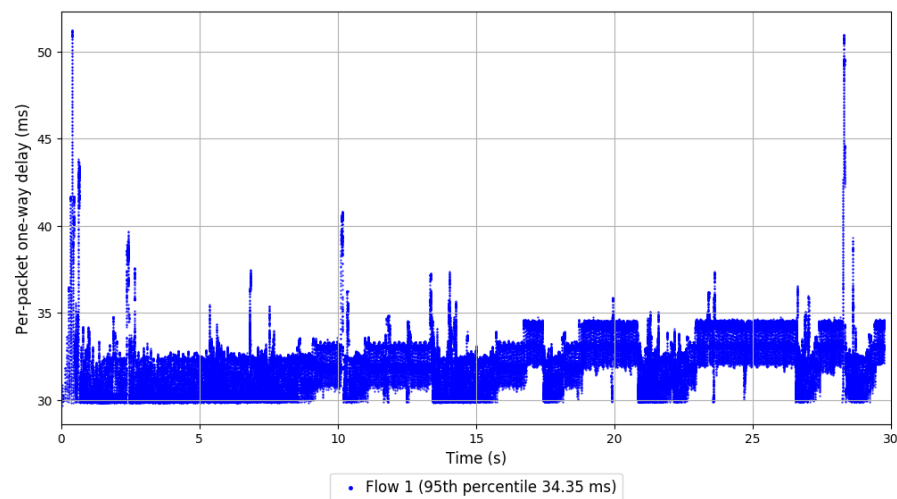
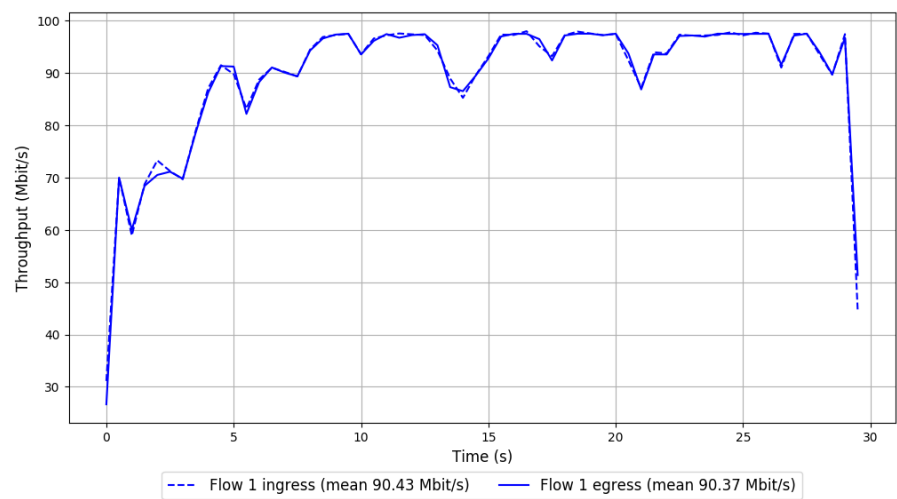


```
Run 1: Statistics of Indigo

Start at: 2017-11-15 23:41:21
End at: 2017-11-15 23:41:51
Local clock offset: -0.612 ms
Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2017-11-16 03:23:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 34.355 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 90.37 Mbit/s
95th percentile per-packet one-way delay: 34.355 ms
Loss rate: 0.06%
```

Run 1: Report of Indigo — Data Link

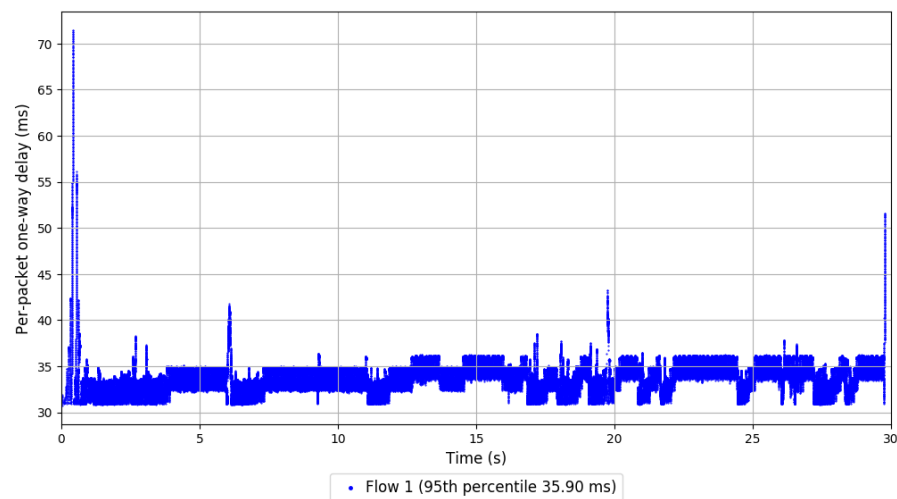
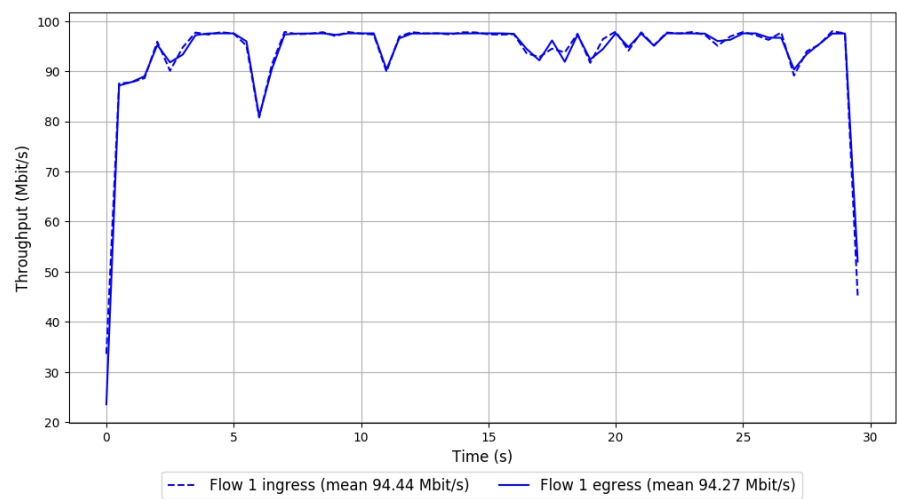


Run 2: Statistics of Indigo

Start at: 2017-11-16 00:01:13
End at: 2017-11-16 00:01:43
Local clock offset: -0.199 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2017-11-16 03:24:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 35.904 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 94.27 Mbit/s
95th percentile per-packet one-way delay: 35.904 ms
Loss rate: 0.11%

Run 2: Report of Indigo — Data Link

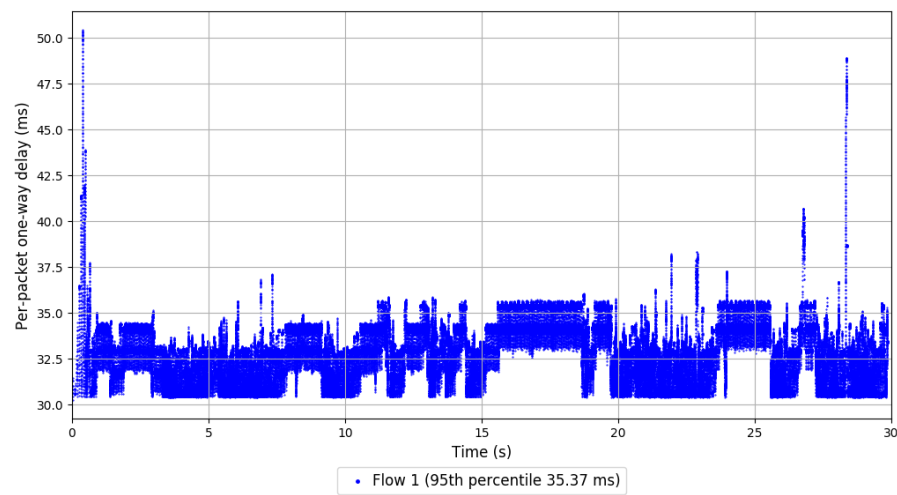
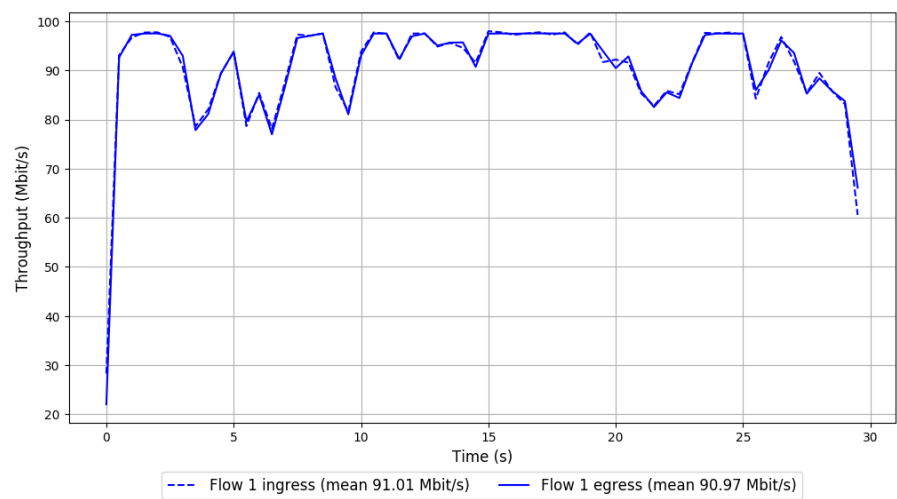


Run 3: Statistics of Indigo

Start at: 2017-11-16 00:21:08
End at: 2017-11-16 00:21:38
Local clock offset: -0.358 ms
Remote clock offset: -0.396 ms

Below is generated by plot.py at 2017-11-16 03:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 35.373 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 90.97 Mbit/s
95th percentile per-packet one-way delay: 35.373 ms
Loss rate: 0.03%

Run 3: Report of Indigo — Data Link

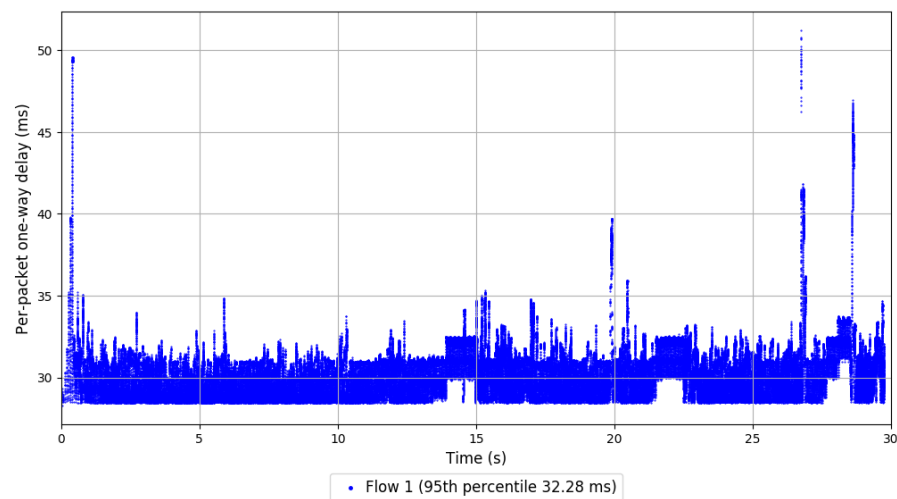
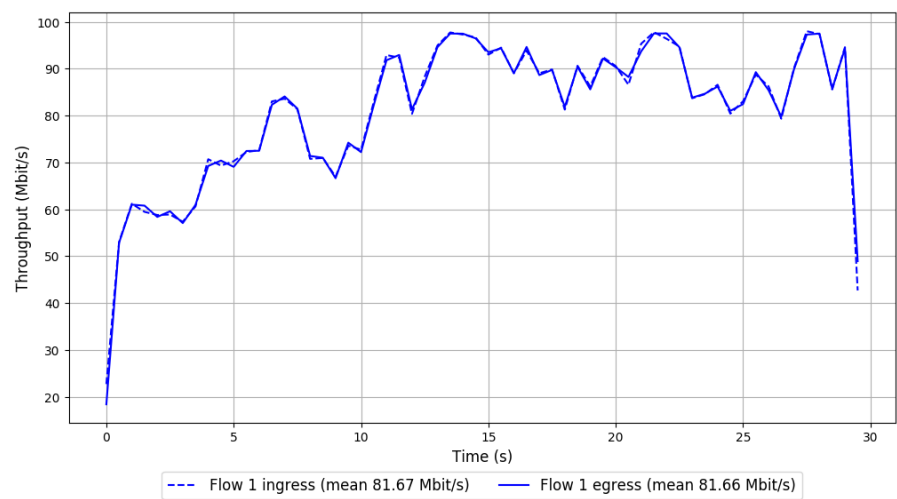


Run 4: Statistics of Indigo

Start at: 2017-11-16 00:42:17
End at: 2017-11-16 00:42:47
Local clock offset: -0.624 ms
Remote clock offset: -2.653 ms

Below is generated by plot.py at 2017-11-16 03:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.66 Mbit/s
95th percentile per-packet one-way delay: 32.276 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.66 Mbit/s
95th percentile per-packet one-way delay: 32.276 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link

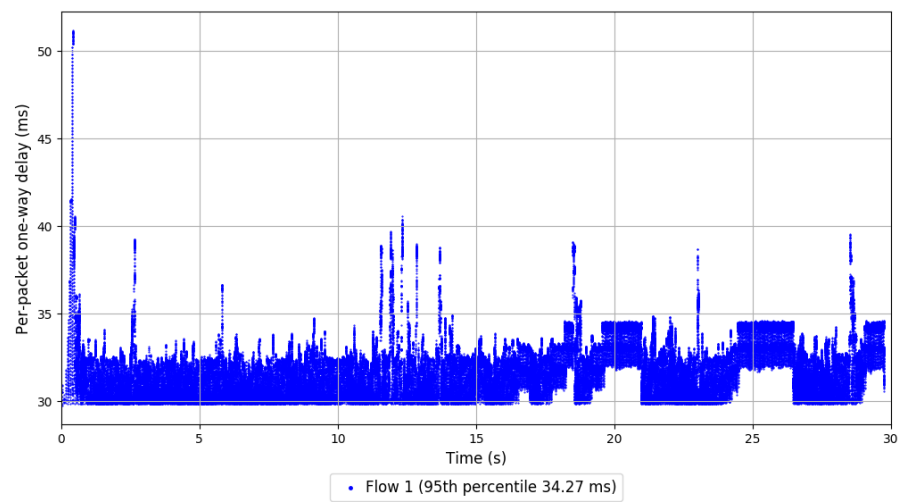
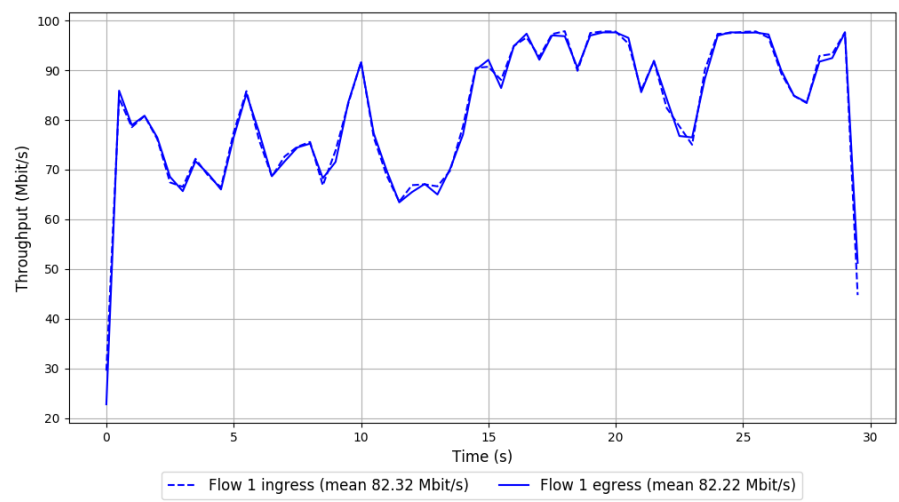


Run 5: Statistics of Indigo

Start at: 2017-11-16 01:03:19
End at: 2017-11-16 01:03:49
Local clock offset: -0.616 ms
Remote clock offset: -1.034 ms

Below is generated by plot.py at 2017-11-16 03:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 34.265 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 82.22 Mbit/s
95th percentile per-packet one-way delay: 34.265 ms
Loss rate: 0.12%

Run 5: Report of Indigo — Data Link

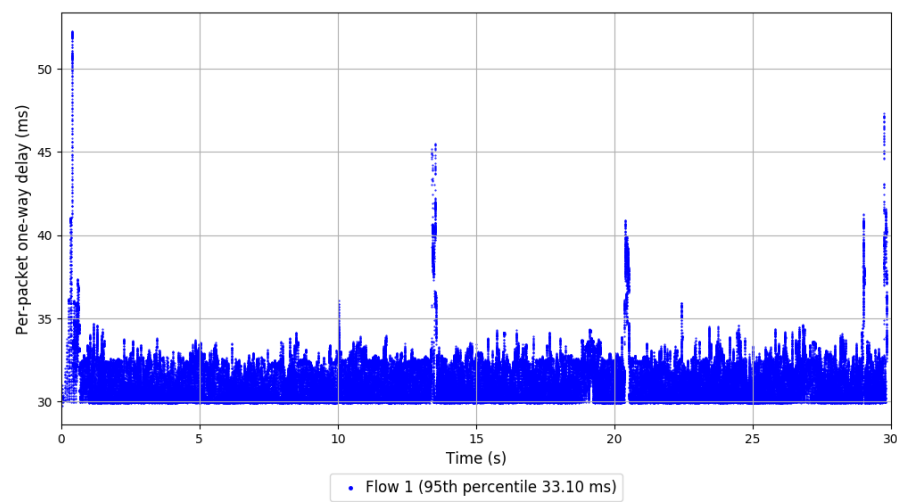
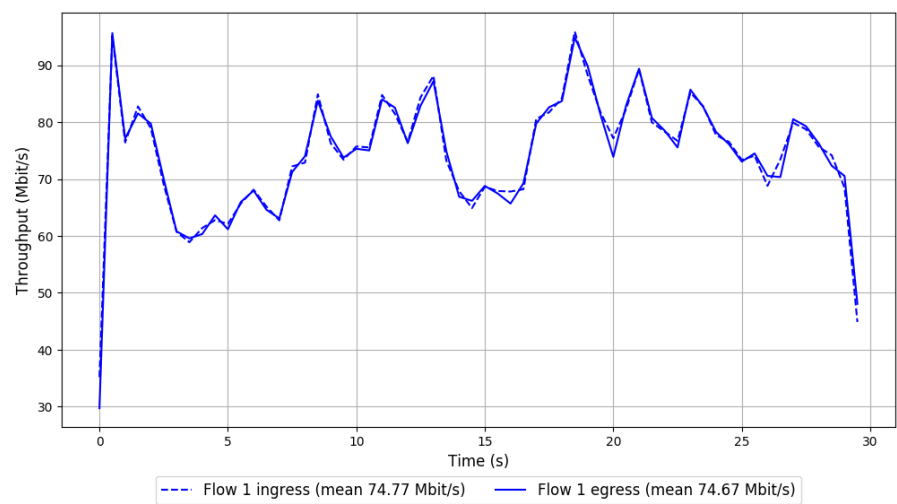


Run 6: Statistics of Indigo

Start at: 2017-11-16 01:24:46
End at: 2017-11-16 01:25:16
Local clock offset: -0.823 ms
Remote clock offset: -0.979 ms

Below is generated by plot.py at 2017-11-16 03:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 74.67 Mbit/s
95th percentile per-packet one-way delay: 33.105 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 74.67 Mbit/s
95th percentile per-packet one-way delay: 33.105 ms
Loss rate: 0.11%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2017-11-16 01:47:24

End at: 2017-11-16 01:47:54

Local clock offset: -0.34 ms

Remote clock offset: -1.041 ms

Below is generated by plot.py at 2017-11-16 03:24:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 34.241 ms

Loss rate: 0.16%

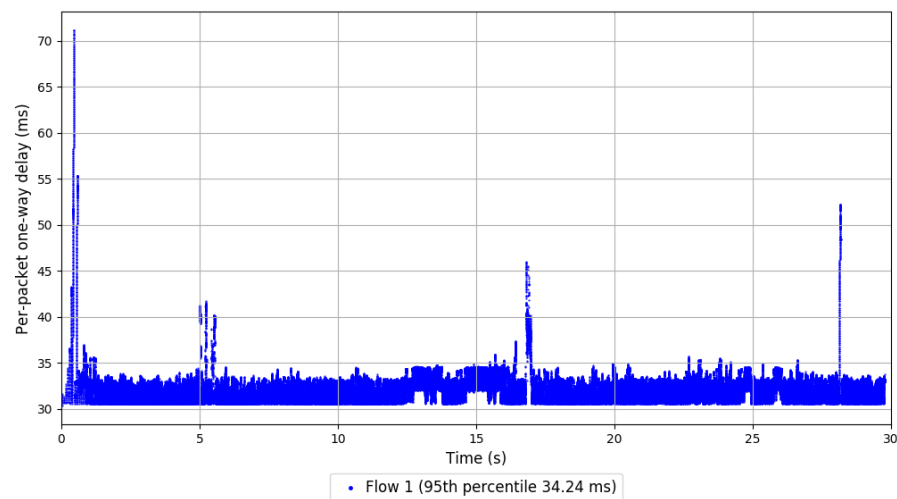
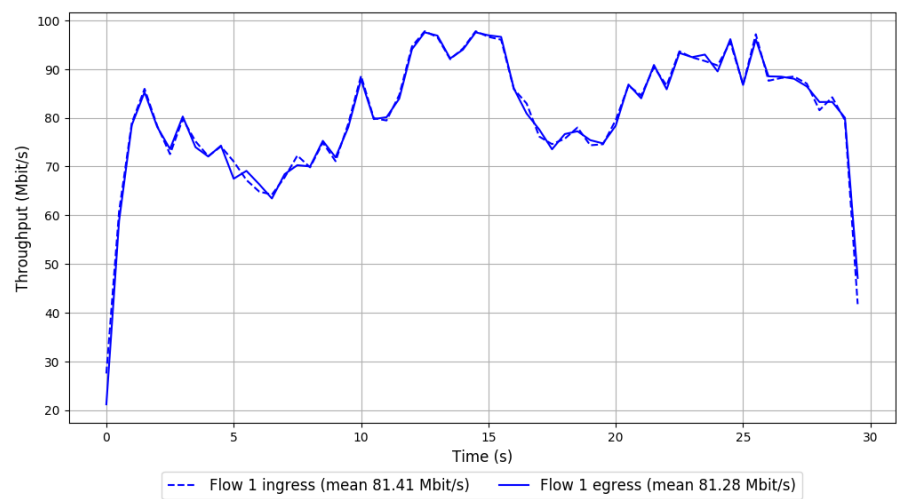
-- Flow 1:

Average throughput: 81.28 Mbit/s

95th percentile per-packet one-way delay: 34.241 ms

Loss rate: 0.16%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-11-16 02:08:50

End at: 2017-11-16 02:09:20

Local clock offset: 0.296 ms

Remote clock offset: -3.65 ms

Below is generated by plot.py at 2017-11-16 03:24:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 32.113 ms

Loss rate: 0.09%

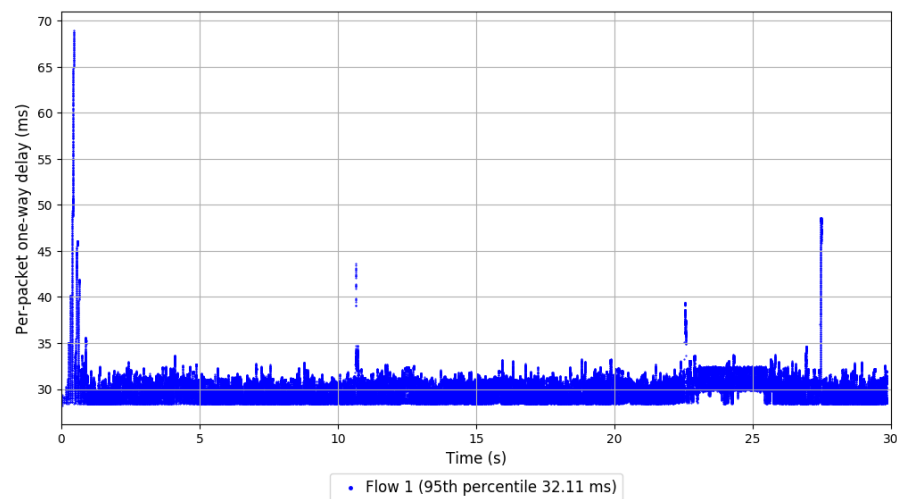
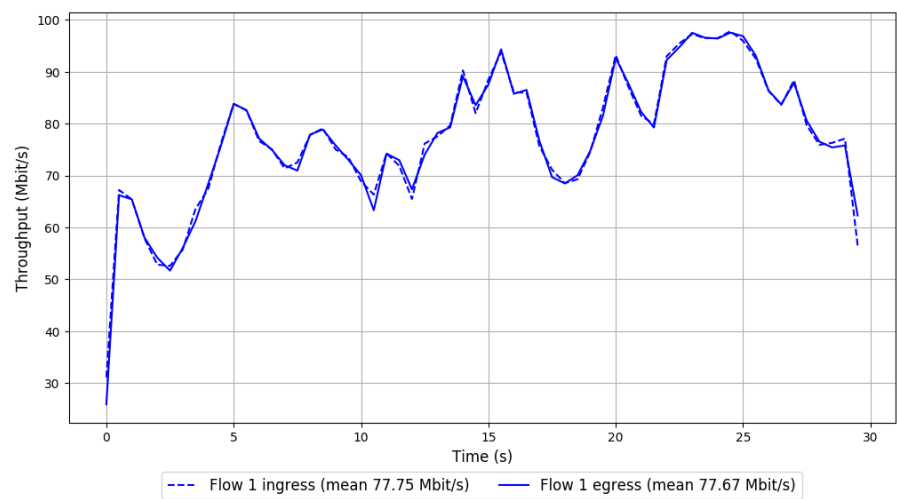
-- Flow 1:

Average throughput: 77.67 Mbit/s

95th percentile per-packet one-way delay: 32.113 ms

Loss rate: 0.09%

Run 8: Report of Indigo — Data Link

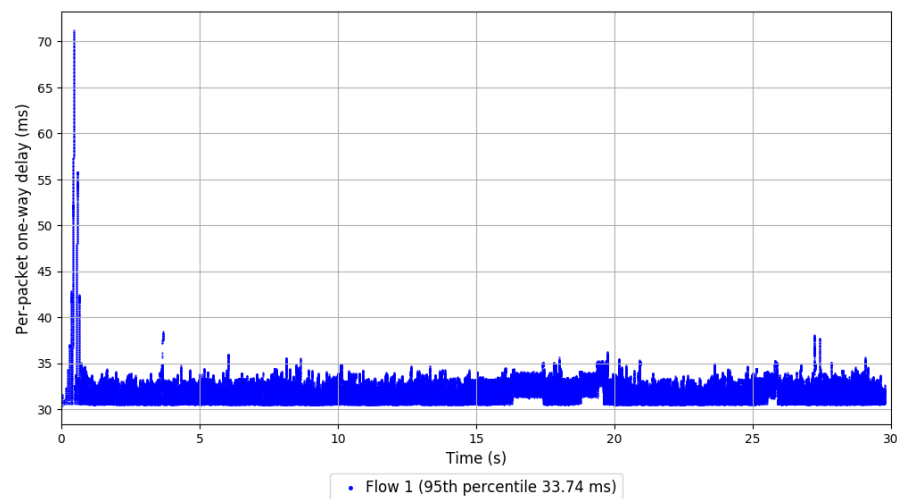
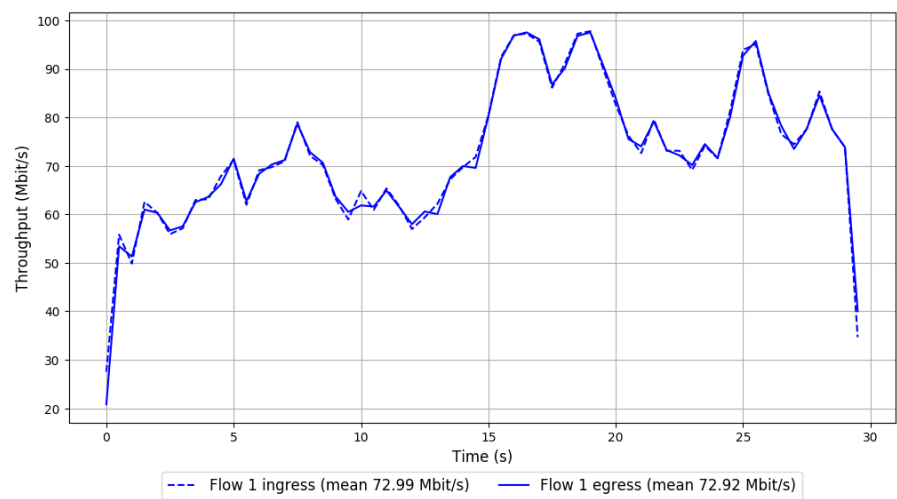


Run 9: Statistics of Indigo

Start at: 2017-11-16 02:30:21
End at: 2017-11-16 02:30:51
Local clock offset: 0.586 ms
Remote clock offset: -1.451 ms

Below is generated by plot.py at 2017-11-16 03:24:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.92 Mbit/s
95th percentile per-packet one-way delay: 33.745 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 72.92 Mbit/s
95th percentile per-packet one-way delay: 33.745 ms
Loss rate: 0.10%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-11-16 02:51:55

End at: 2017-11-16 02:52:25

Local clock offset: 0.561 ms

Remote clock offset: -1.155 ms

Below is generated by plot.py at 2017-11-16 03:25:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 32.836 ms

Loss rate: 0.03%

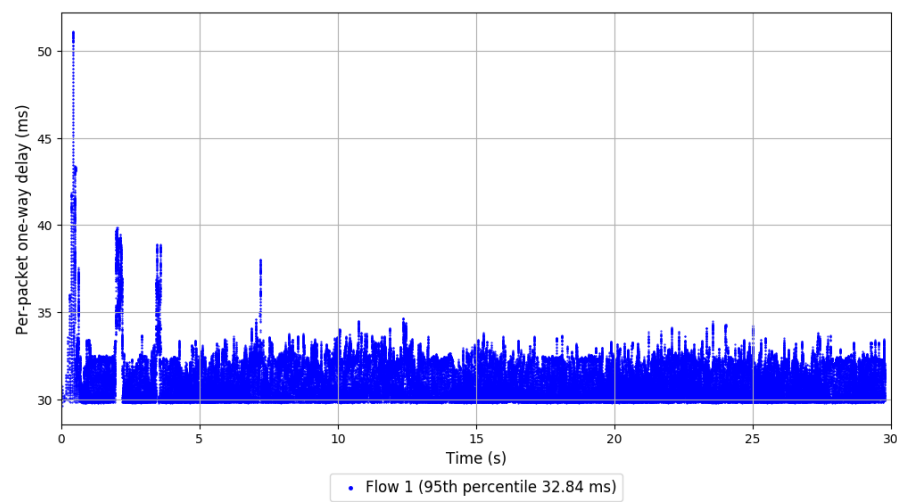
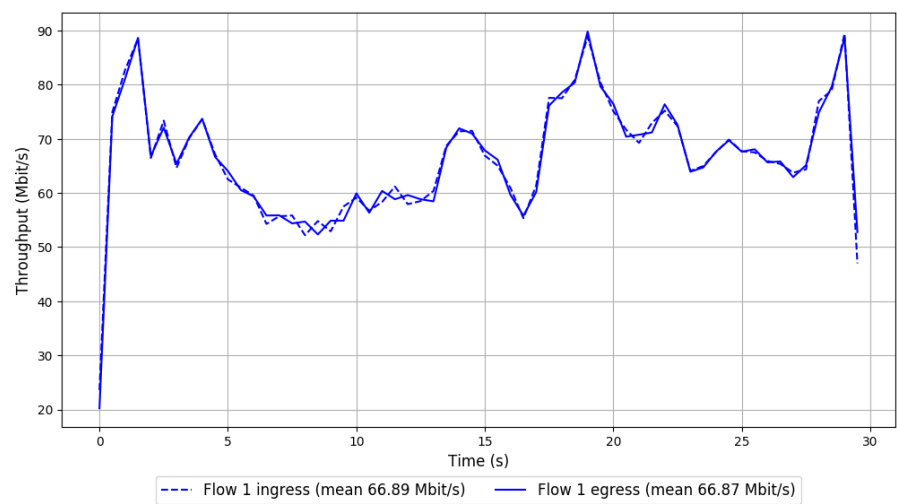
-- Flow 1:

Average throughput: 66.87 Mbit/s

95th percentile per-packet one-way delay: 32.836 ms

Loss rate: 0.03%

Run 10: Report of Indigo — Data Link

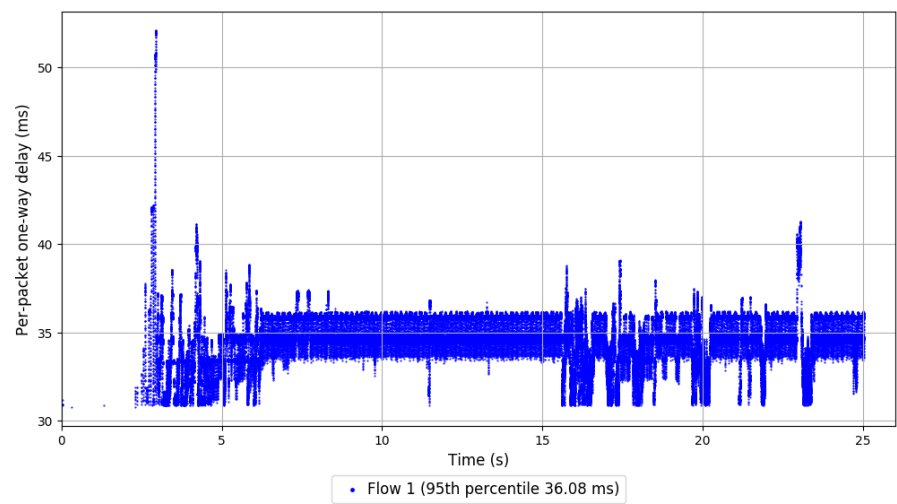
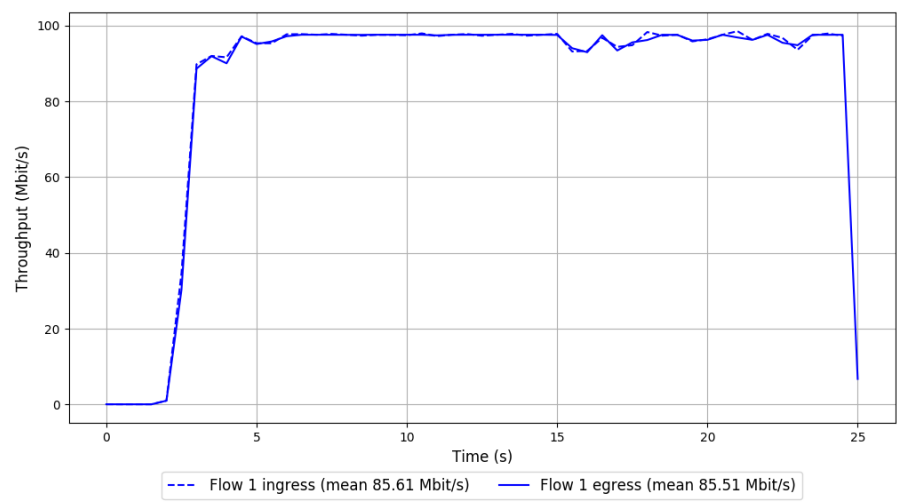


```
Run 1: Statistics of Indigo-calib

Start at: 2017-11-15 23:37:07
End at: 2017-11-15 23:37:37
Local clock offset: -0.573 ms
Remote clock offset: 0.611 ms

# Below is generated by plot.py at 2017-11-16 03:25:24
# Datalink statistics
-- Total of 1 flow:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 36.075 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 85.51 Mbit/s
95th percentile per-packet one-way delay: 36.075 ms
Loss rate: 0.09%
```

Run 1: Report of Indigo-calib — Data Link

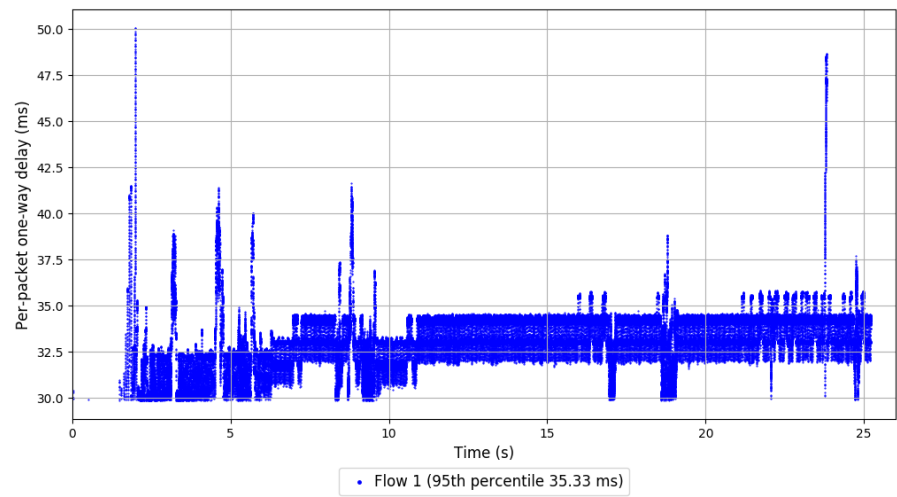
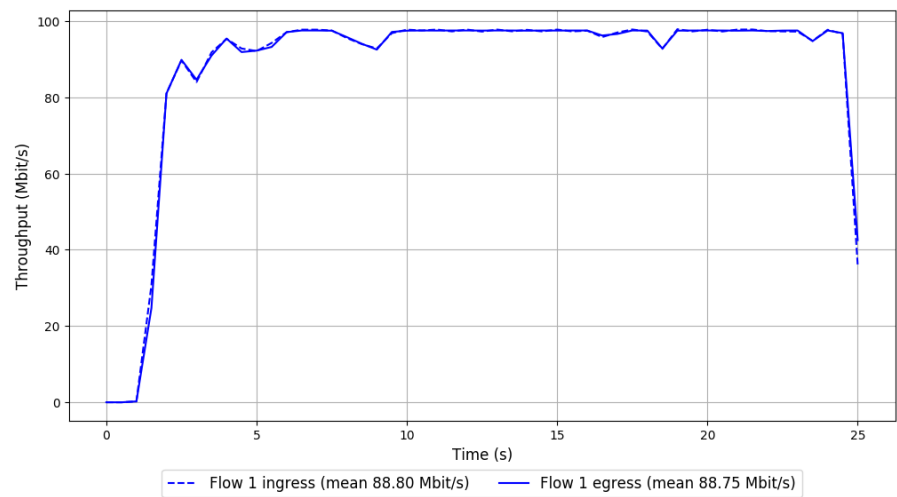


```
Run 2: Statistics of Indigo-calib

Start at: 2017-11-15 23:56:47
End at: 2017-11-15 23:57:17
Local clock offset: -0.38 ms
Remote clock offset: -0.401 ms

# Below is generated by plot.py at 2017-11-16 03:25:27
# Datalink statistics
-- Total of 1 flow:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 35.328 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 35.328 ms
Loss rate: 0.04%
```

Run 2: Report of Indigo-calib — Data Link

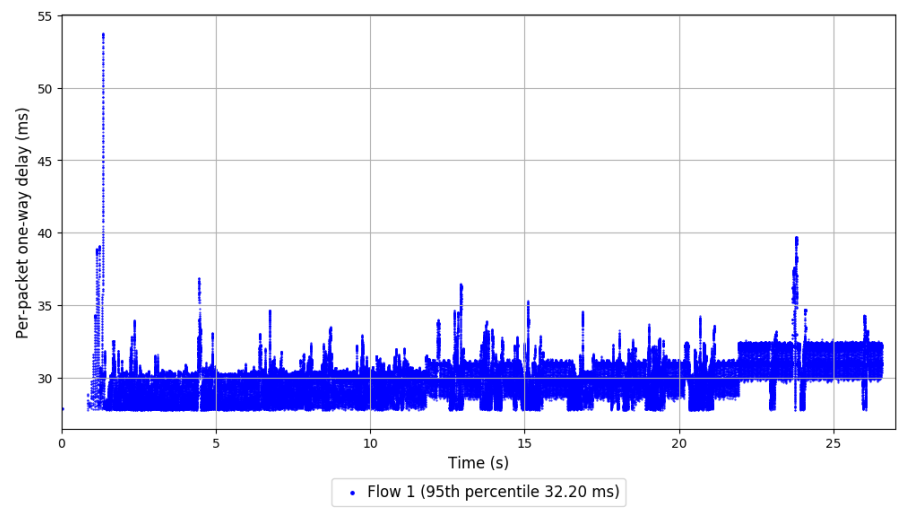
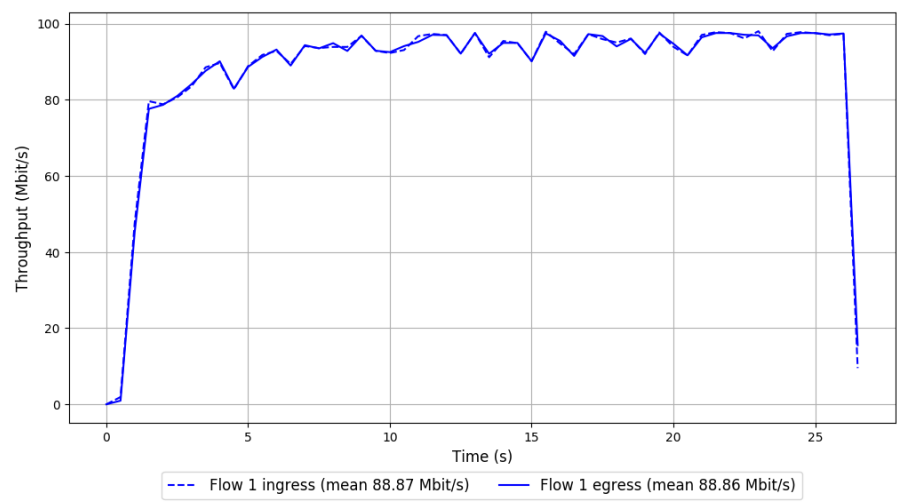


Run 3: Statistics of Indigo-calib

Start at: 2017-11-16 00:16:43
End at: 2017-11-16 00:17:13
Local clock offset: -0.292 ms
Remote clock offset: -2.401 ms

Below is generated by plot.py at 2017-11-16 03:25:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 88.86 Mbit/s
95th percentile per-packet one-way delay: 32.205 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 88.86 Mbit/s
95th percentile per-packet one-way delay: 32.205 ms
Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

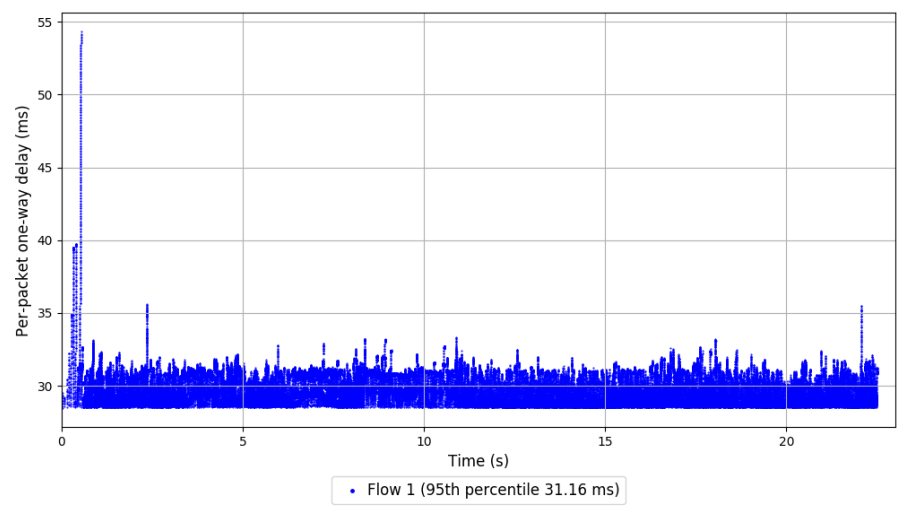
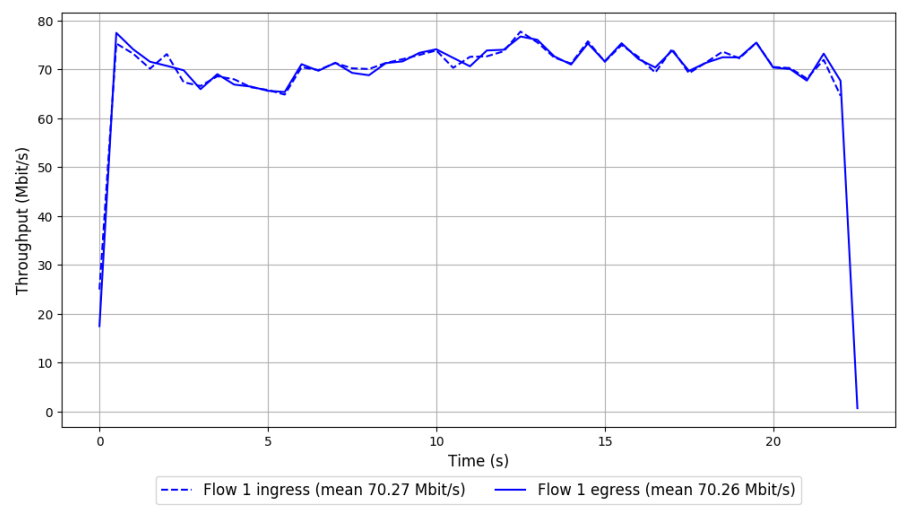
Start at: 2017-11-16 00:37:35

End at: 2017-11-16 00:38:05

Local clock offset: -0.67 ms

Remote clock offset: -2.528 ms

Run 4: Report of Indigo-calib — Data Link

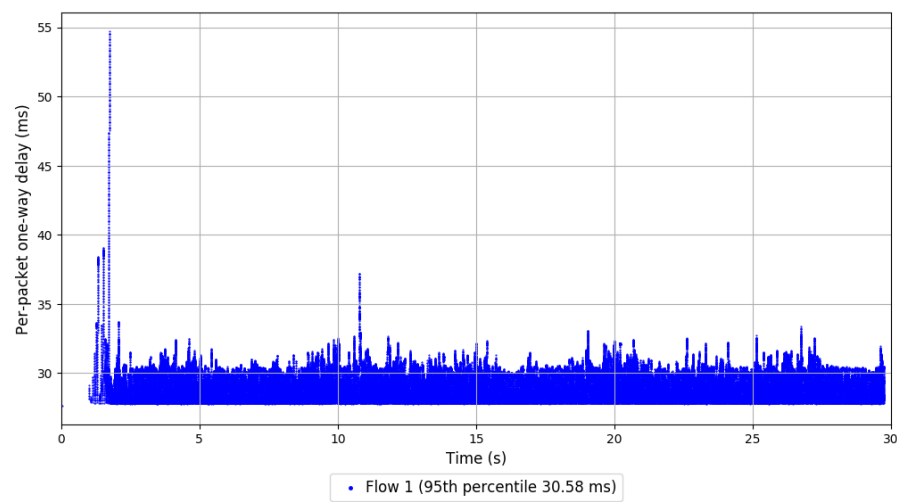
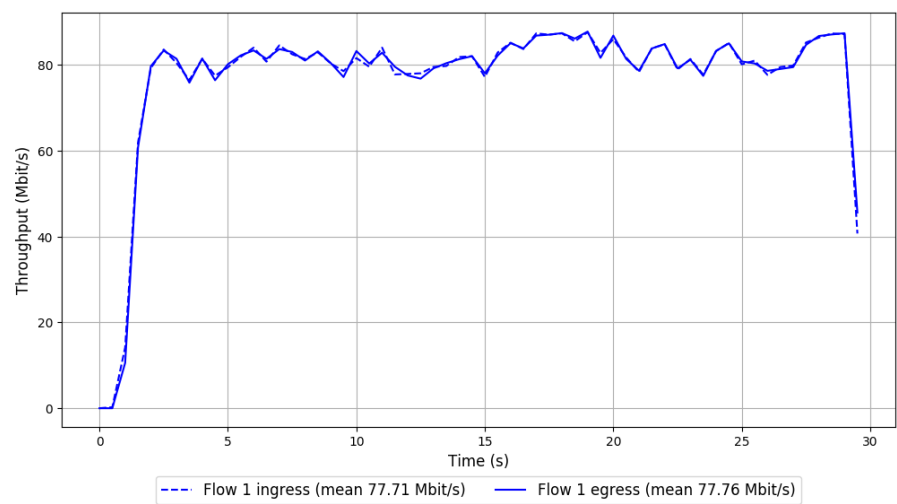


Run 5: Statistics of Indigo-calib

Start at: 2017-11-16 00:58:39
End at: 2017-11-16 00:59:09
Local clock offset: -0.667 ms
Remote clock offset: -3.102 ms

Below is generated by plot.py at 2017-11-16 03:25:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.76 Mbit/s
95th percentile per-packet one-way delay: 30.576 ms
Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link

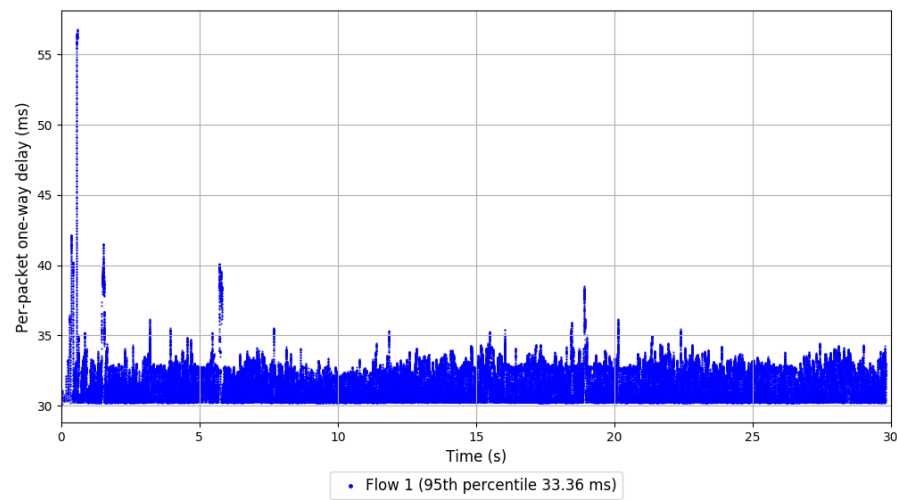
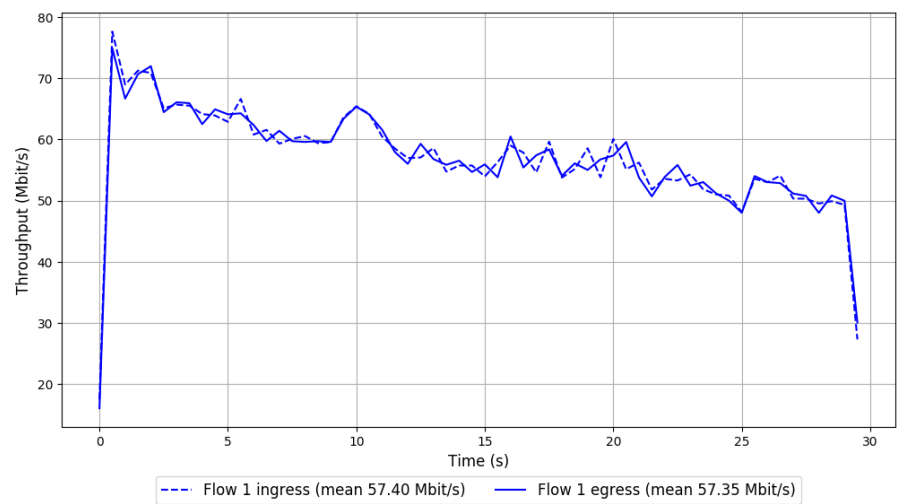


Run 6: Statistics of Indigo-calib

Start at: 2017-11-16 01:20:06
End at: 2017-11-16 01:20:36
Local clock offset: -0.805 ms
Remote clock offset: -0.688 ms

Below is generated by plot.py at 2017-11-16 03:25:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 33.363 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 57.35 Mbit/s
95th percentile per-packet one-way delay: 33.363 ms
Loss rate: 0.08%

Run 6: Report of Indigo-calib — Data Link

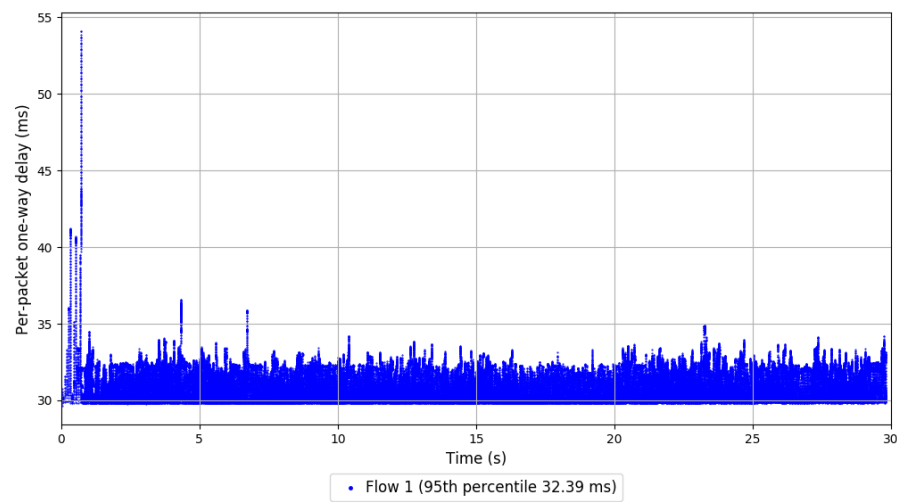
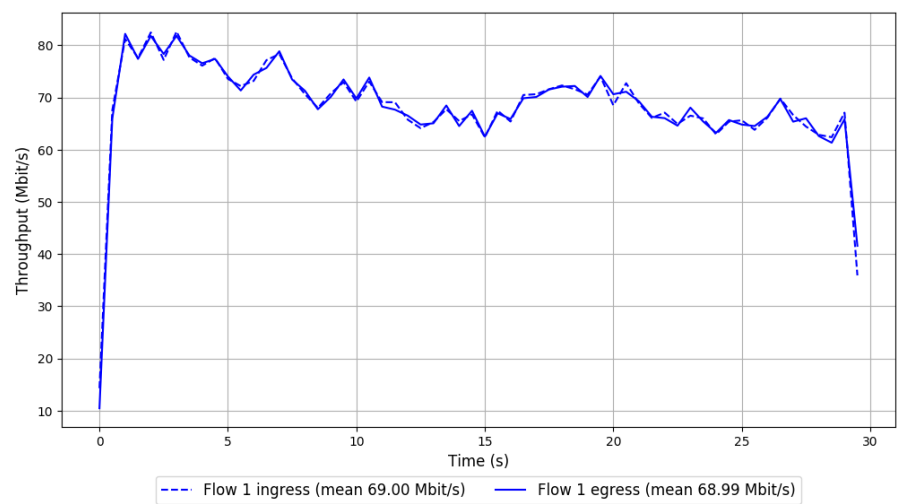


Run 7: Statistics of Indigo-calib

Start at: 2017-11-16 01:42:38
End at: 2017-11-16 01:43:08
Local clock offset: -0.433 ms
Remote clock offset: -0.908 ms

Below is generated by plot.py at 2017-11-16 03:25:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.99 Mbit/s
95th percentile per-packet one-way delay: 32.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.99 Mbit/s
95th percentile per-packet one-way delay: 32.392 ms
Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link



Run 8: Statistics of Indigo-calib

Start at: 2017-11-16 02:04:40

End at: 2017-11-16 02:05:10

Local clock offset: 0.251 ms

Remote clock offset: -1.033 ms

Below is generated by plot.py at 2017-11-16 03:25:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 33.975 ms

Loss rate: 0.06%

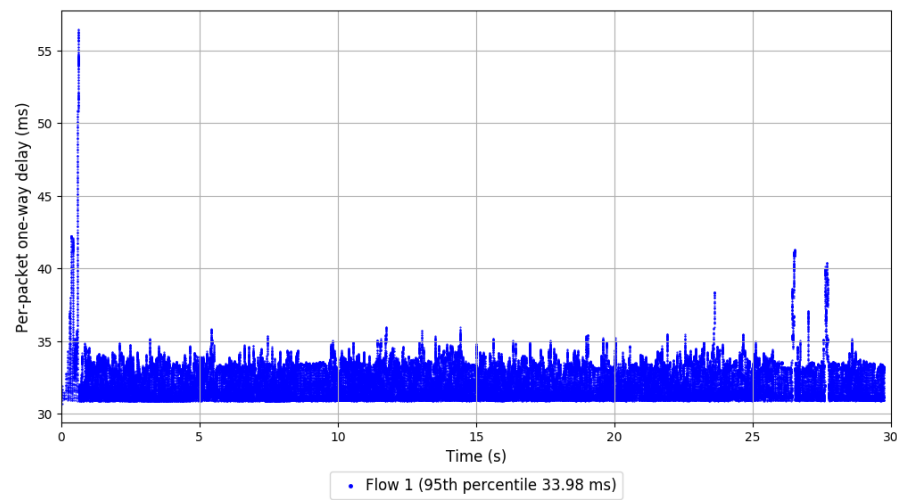
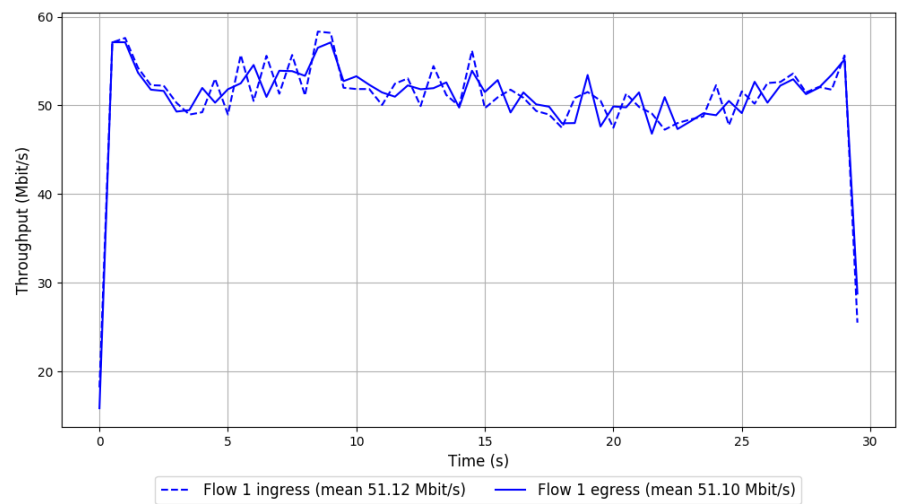
-- Flow 1:

Average throughput: 51.10 Mbit/s

95th percentile per-packet one-way delay: 33.975 ms

Loss rate: 0.06%

Run 8: Report of Indigo-calib — Data Link



Run 9: Statistics of Indigo-calib

Start at: 2017-11-16 02:26:05

End at: 2017-11-16 02:26:35

Local clock offset: 0.48 ms

Remote clock offset: -1.171 ms

Below is generated by plot.py at 2017-11-16 03:25:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 33.884 ms

Loss rate: 0.00%

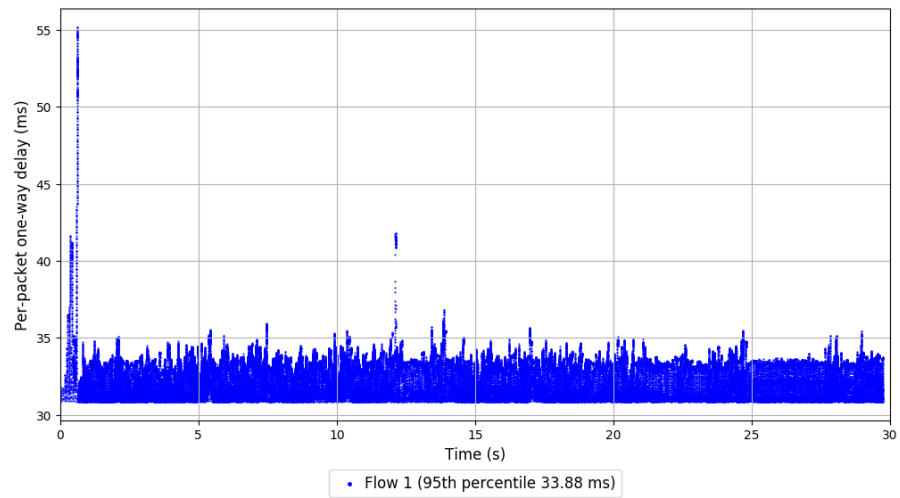
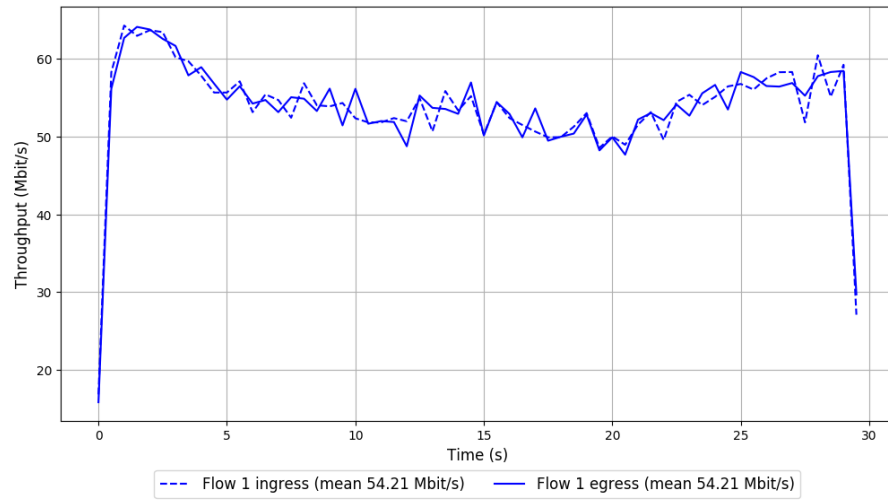
-- Flow 1:

Average throughput: 54.21 Mbit/s

95th percentile per-packet one-way delay: 33.884 ms

Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-11-16 02:47:36

End at: 2017-11-16 02:48:06

Local clock offset: 0.584 ms

Remote clock offset: -1.22 ms

Run 10: Report of Indigo-calib — Data Link

