

Pantheon Report

Generated at 2017-09-21 18:17:44 (UTC).

Data path: AWS Brazil 1 Ethernet (*local*) → Brazil 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).

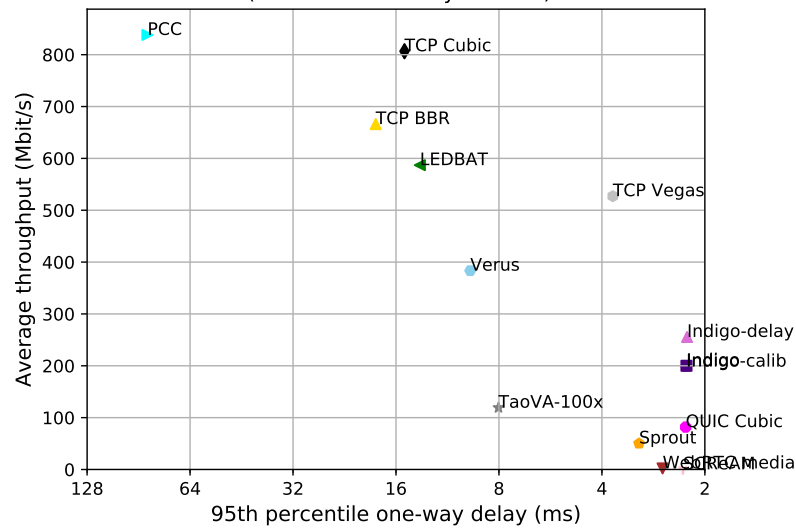
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

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

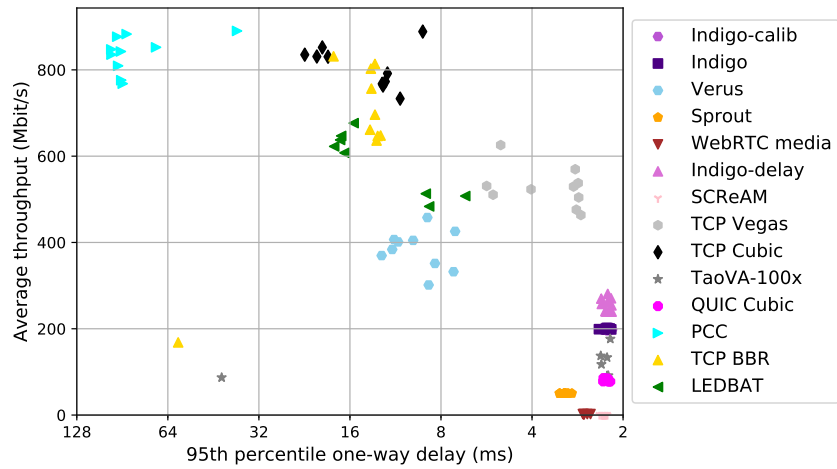
Git summary:

```
branch: indigos @ 46c7c812d4acb71eea4f5fb0b03b3657cea3062f
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 Brazil 1 Ethernet to Brazil Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	666.16	18.34	0.42
TCP Cubic	10	806.66	15.11	0.02
LEDBAT	8	586.96	13.63	0.02
PCC	10	838.12	85.25	2.00
QUIC Cubic	8	81.76	2.28	0.00
SCReAM	10	0.22	2.32	0.00
WebRTC media	5	2.04	2.66	0.00
Sprout	10	50.20	3.12	0.00
TaoVA-100x	7	119.15	8.03	0.31
TCP Vegas	10	527.10	3.72	0.00
Verus	10	383.49	9.71	0.41
Indigo	10	200.02	2.26	0.00
Indigo-calib	10	198.39	2.27	0.00
Indigo-delay	10	255.68	2.25	0.00

Run 1: Statistics of TCP BBR

Start at: 2017-09-21 12:28:10

End at: 2017-09-21 12:28:40

Local clock offset: 0.33 ms

Remote clock offset: 0.188 ms

Below is generated by plot.py at 2017-09-21 17:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 831.43 Mbit/s

95th percentile per-packet one-way delay: 18.128 ms

Loss rate: 0.17%

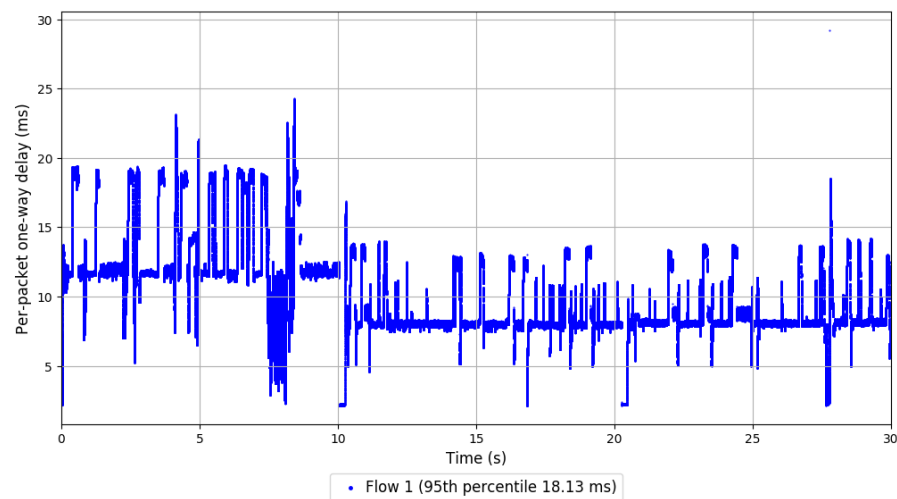
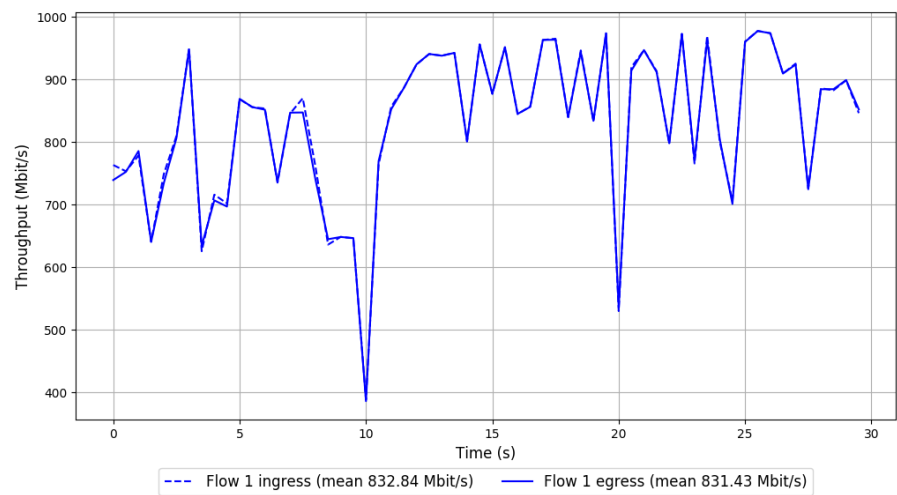
-- Flow 1:

Average throughput: 831.43 Mbit/s

95th percentile per-packet one-way delay: 18.128 ms

Loss rate: 0.17%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2017-09-21 12:45:55

End at: 2017-09-21 12:46:25

Local clock offset: 0.326 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2017-09-21 17:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 647.87 Mbit/s

95th percentile per-packet one-way delay: 12.671 ms

Loss rate: 0.00%

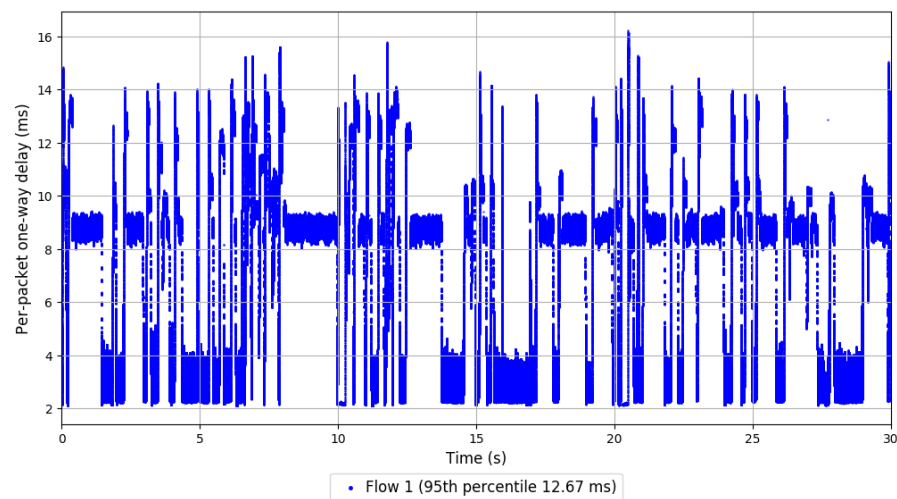
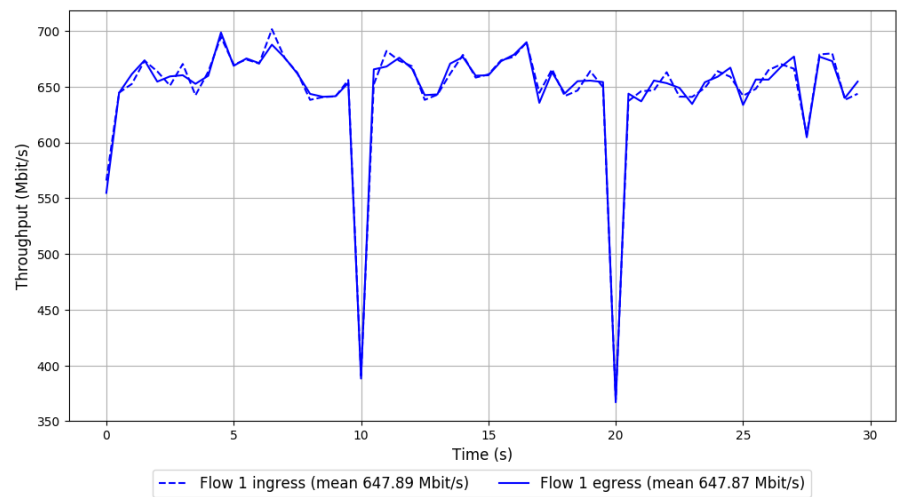
-- Flow 1:

Average throughput: 647.87 Mbit/s

95th percentile per-packet one-way delay: 12.671 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

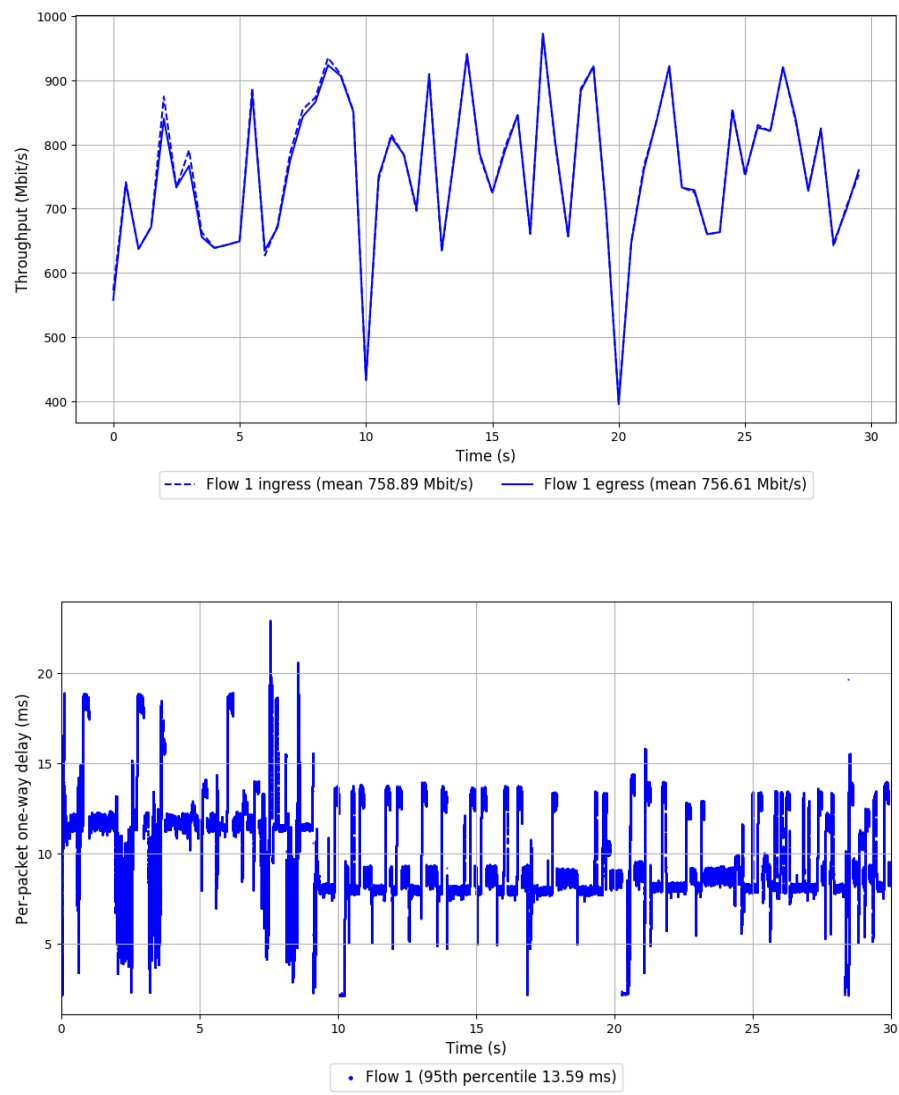


Run 3: Statistics of TCP BBR

Start at: 2017-09-21 13:04:07
End at: 2017-09-21 13:04:37
Local clock offset: 0.298 ms
Remote clock offset: -0.153 ms

Below is generated by plot.py at 2017-09-21 17:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 756.61 Mbit/s
95th percentile per-packet one-way delay: 13.589 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 756.61 Mbit/s
95th percentile per-packet one-way delay: 13.589 ms
Loss rate: 0.30%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2017-09-21 13:22:22

End at: 2017-09-21 13:22:52

Local clock offset: 0.277 ms

Remote clock offset: -0.201 ms

Below is generated by plot.py at 2017-09-21 17:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 802.78 Mbit/s

95th percentile per-packet one-way delay: 13.644 ms

Loss rate: 0.06%

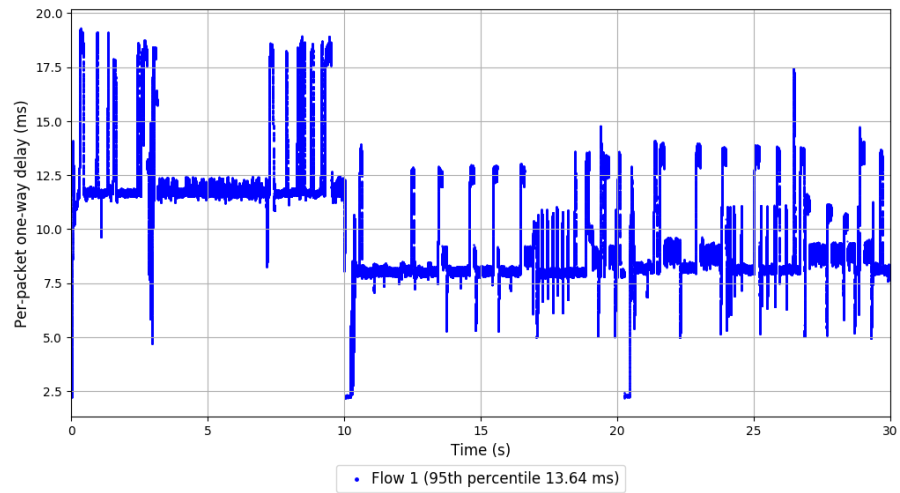
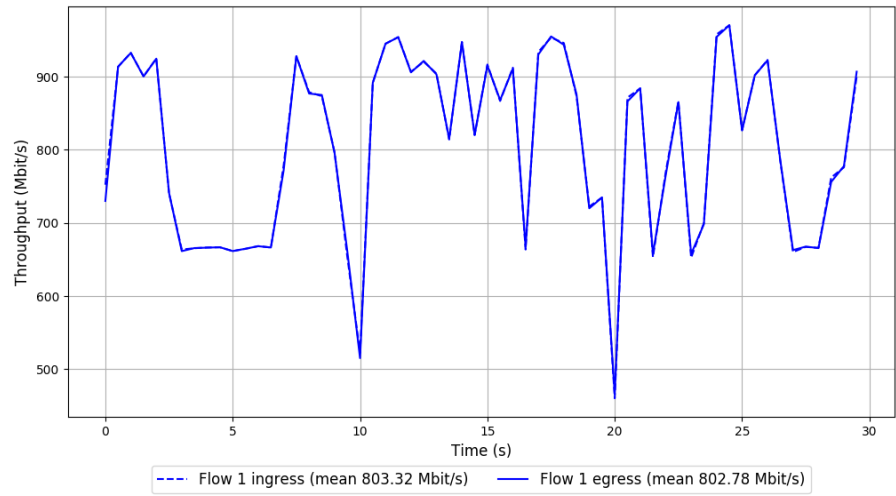
-- Flow 1:

Average throughput: 802.78 Mbit/s

95th percentile per-packet one-way delay: 13.644 ms

Loss rate: 0.06%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2017-09-21 13:40:43

End at: 2017-09-21 13:41:13

Local clock offset: 0.16 ms

Remote clock offset: -0.281 ms

Below is generated by plot.py at 2017-09-21 17:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 696.26 Mbit/s

95th percentile per-packet one-way delay: 13.224 ms

Loss rate: 0.01%

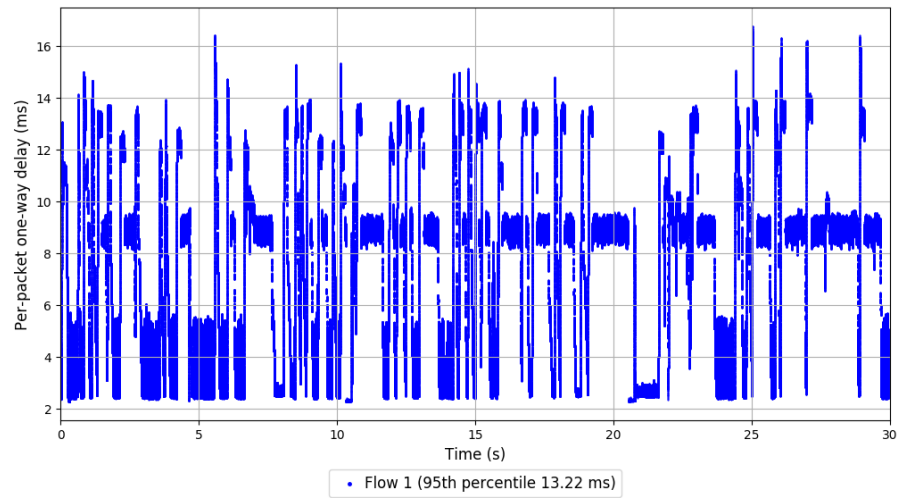
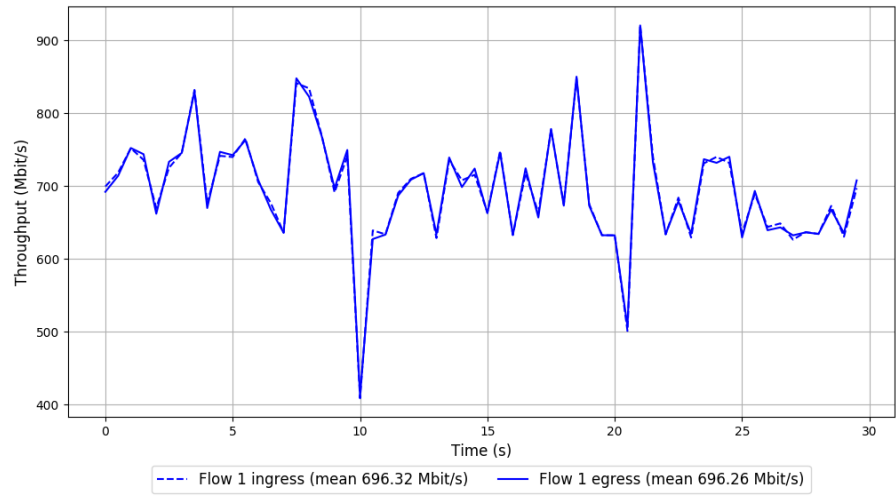
-- Flow 1:

Average throughput: 696.26 Mbit/s

95th percentile per-packet one-way delay: 13.224 ms

Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2017-09-21 13:59:02

End at: 2017-09-21 13:59:32

Local clock offset: 0.086 ms

Remote clock offset: -0.489 ms

Below is generated by plot.py at 2017-09-21 17:06:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 646.84 Mbit/s

95th percentile per-packet one-way delay: 12.955 ms

Loss rate: 0.01%

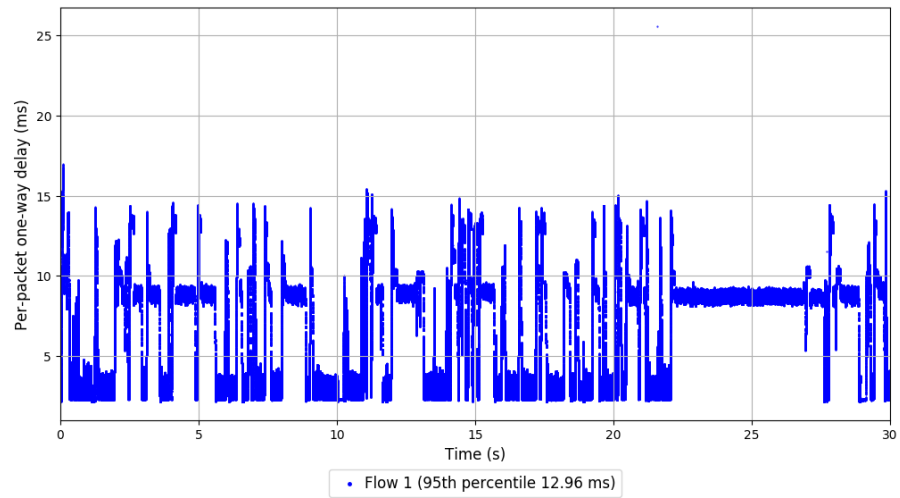
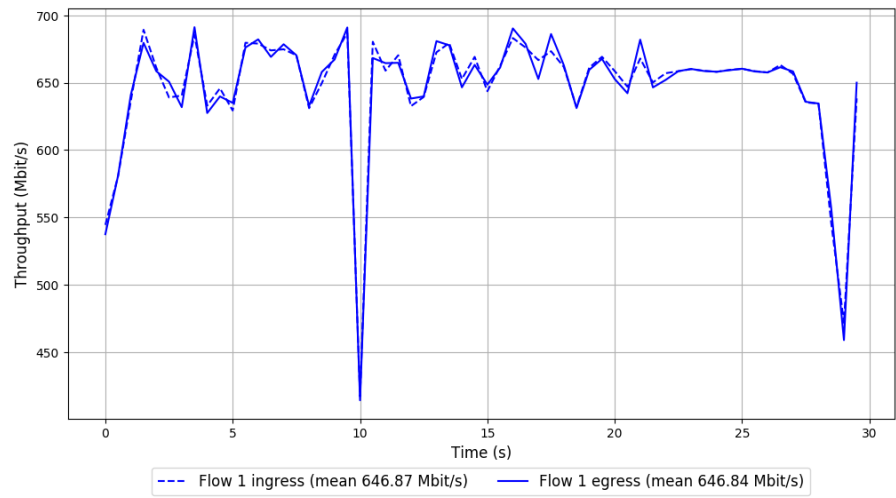
-- Flow 1:

Average throughput: 646.84 Mbit/s

95th percentile per-packet one-way delay: 12.955 ms

Loss rate: 0.01%

Run 6: Report of TCP BBR — Data Link

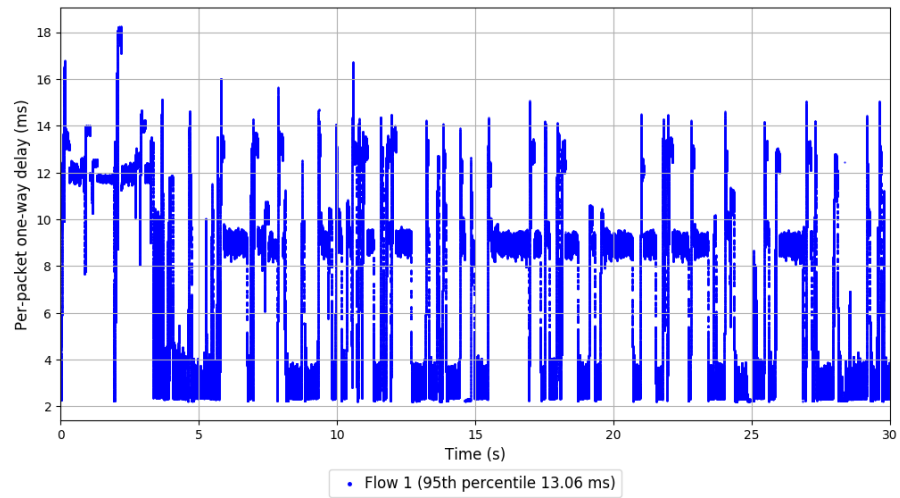
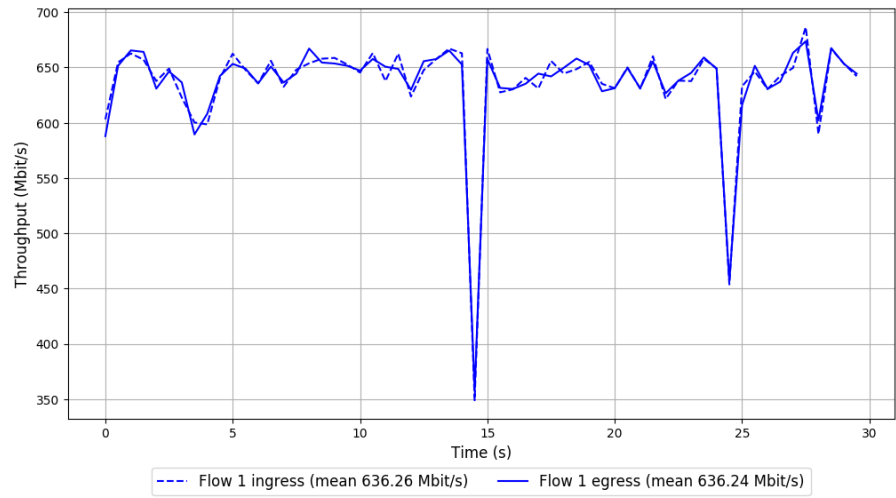


Run 7: Statistics of TCP BBR

Start at: 2017-09-21 14:17:14
End at: 2017-09-21 14:17:44
Local clock offset: 0.075 ms
Remote clock offset: -0.431 ms

Below is generated by plot.py at 2017-09-21 17:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 636.24 Mbit/s
95th percentile per-packet one-way delay: 13.063 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 636.24 Mbit/s
95th percentile per-packet one-way delay: 13.063 ms
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link

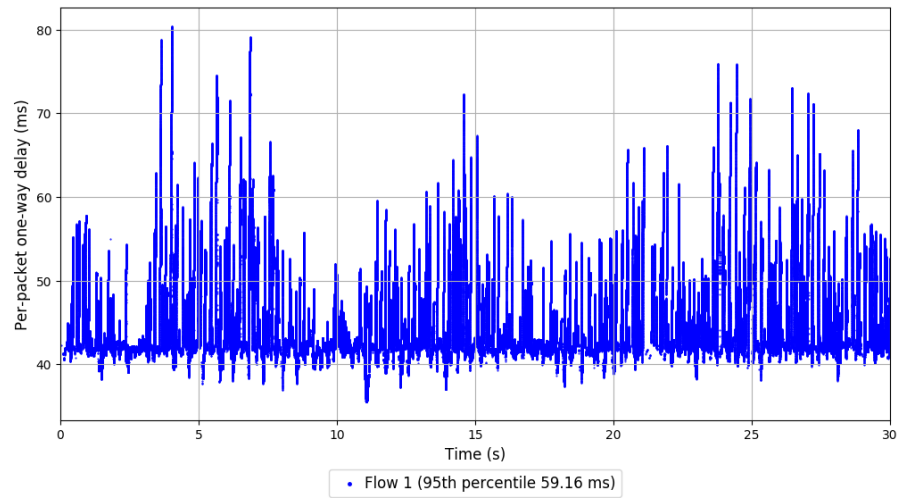
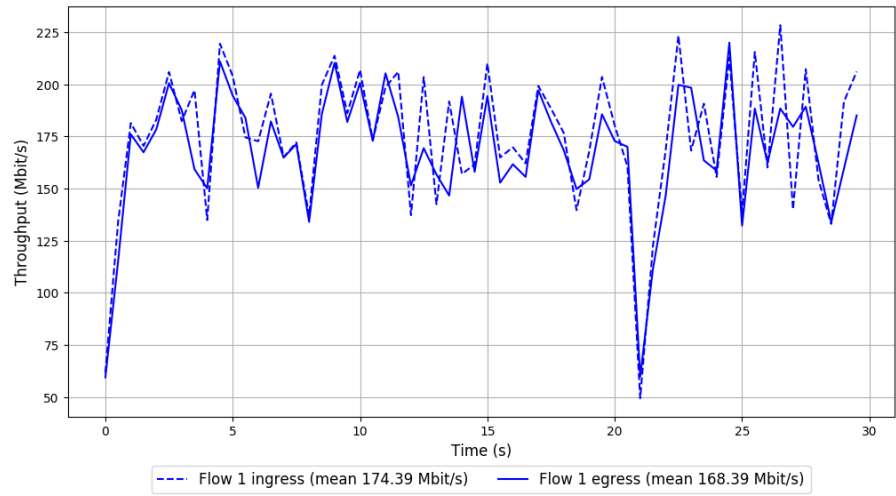


Run 8: Statistics of TCP BBR

Start at: 2017-09-21 14:35:26
End at: 2017-09-21 14:35:56
Local clock offset: 0.04 ms
Remote clock offset: -0.506 ms

Below is generated by plot.py at 2017-09-21 17:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 168.39 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 3.54%
-- Flow 1:
Average throughput: 168.39 Mbit/s
95th percentile per-packet one-way delay: 59.163 ms
Loss rate: 3.54%

Run 8: Report of TCP BBR — Data Link

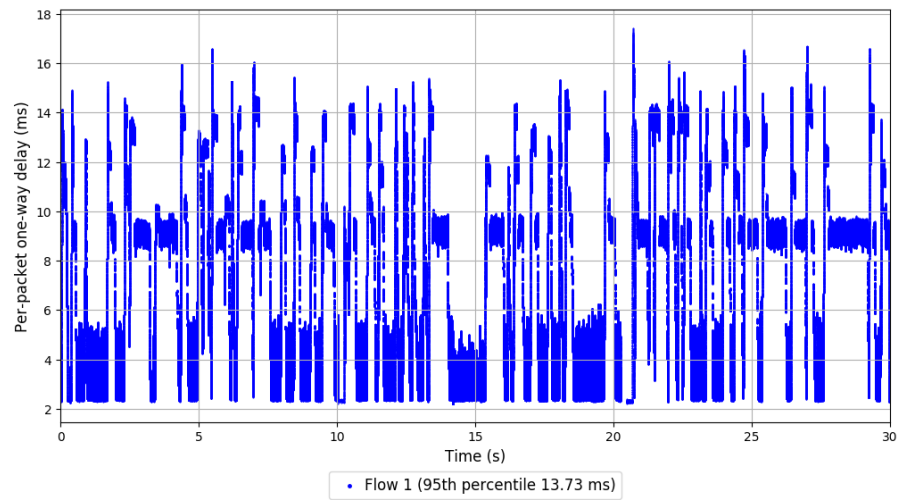
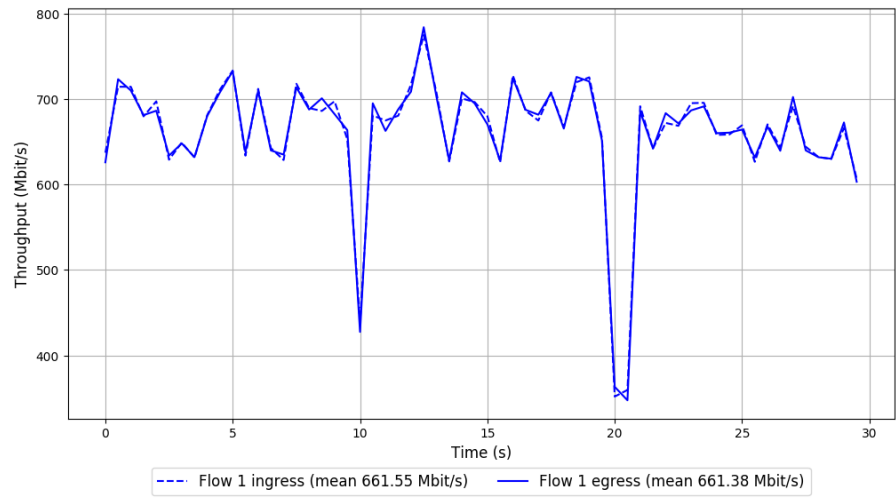


Run 9: Statistics of TCP BBR

Start at: 2017-09-21 14:53:14
End at: 2017-09-21 14:53:44
Local clock offset: -0.094 ms
Remote clock offset: -0.569 ms

Below is generated by plot.py at 2017-09-21 17:06:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 661.38 Mbit/s
95th percentile per-packet one-way delay: 13.730 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 661.38 Mbit/s
95th percentile per-packet one-way delay: 13.730 ms
Loss rate: 0.03%

Run 9: Report of TCP BBR — Data Link

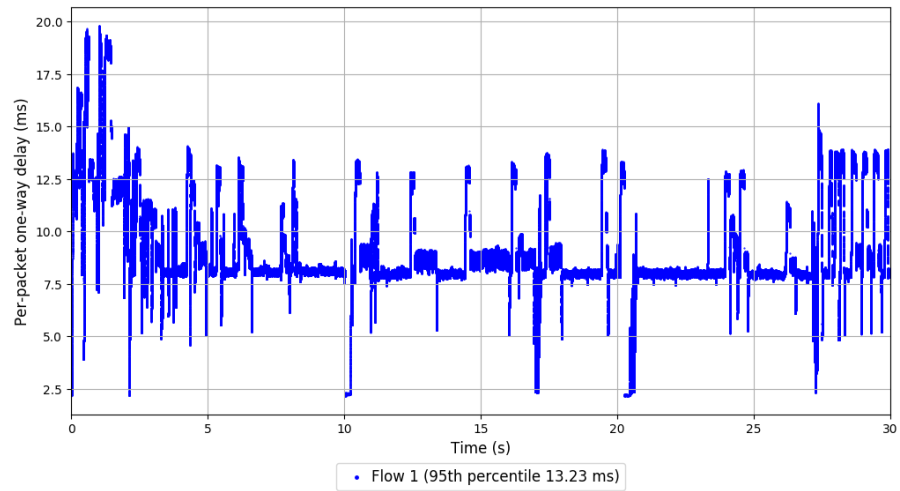
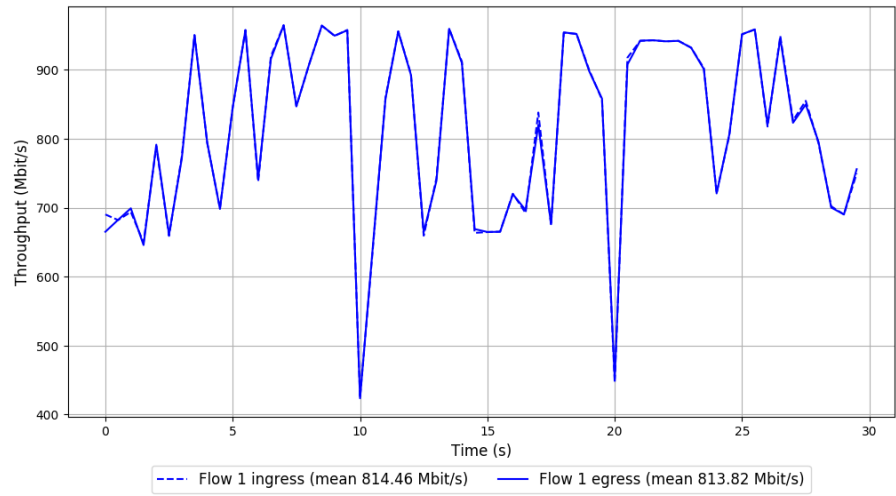


Run 10: Statistics of TCP BBR

Start at: 2017-09-21 15:11:30
End at: 2017-09-21 15:12:00
Local clock offset: -0.19 ms
Remote clock offset: -0.592 ms

Below is generated by plot.py at 2017-09-21 17:15:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 813.82 Mbit/s
95th percentile per-packet one-way delay: 13.228 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 813.82 Mbit/s
95th percentile per-packet one-way delay: 13.228 ms
Loss rate: 0.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2017-09-21 12:35:49

End at: 2017-09-21 12:36:19

Local clock offset: 0.237 ms

Remote clock offset: 0.218 ms

Below is generated by plot.py at 2017-09-21 17:16:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.44 Mbit/s

95th percentile per-packet one-way delay: 18.908 ms

Loss rate: 0.03%

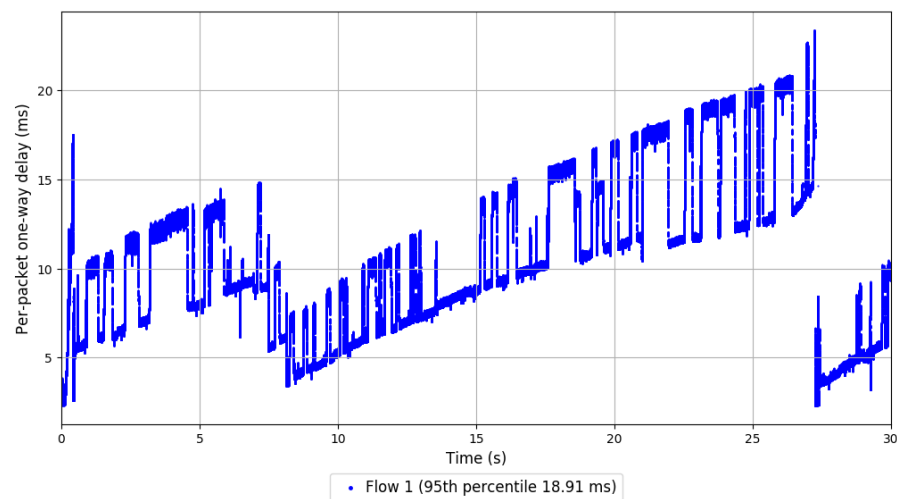
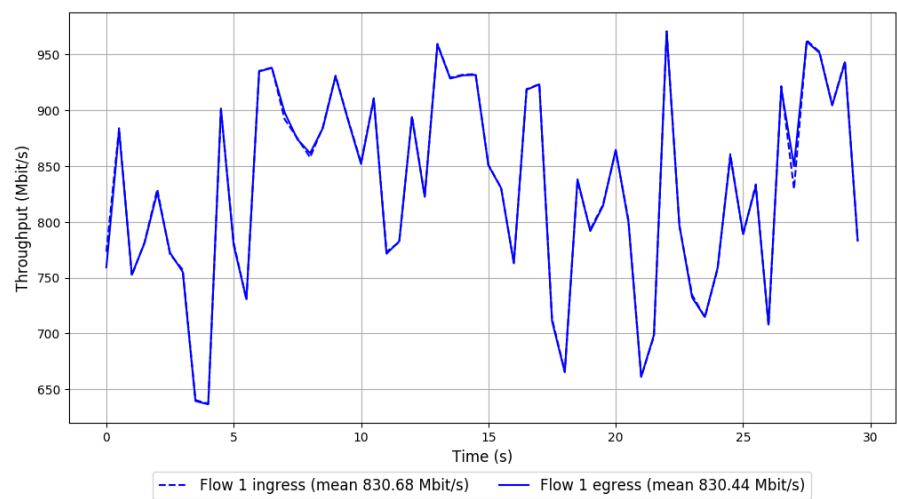
-- Flow 1:

Average throughput: 830.44 Mbit/s

95th percentile per-packet one-way delay: 18.908 ms

Loss rate: 0.03%

Run 1: Report of TCP Cubic — Data Link

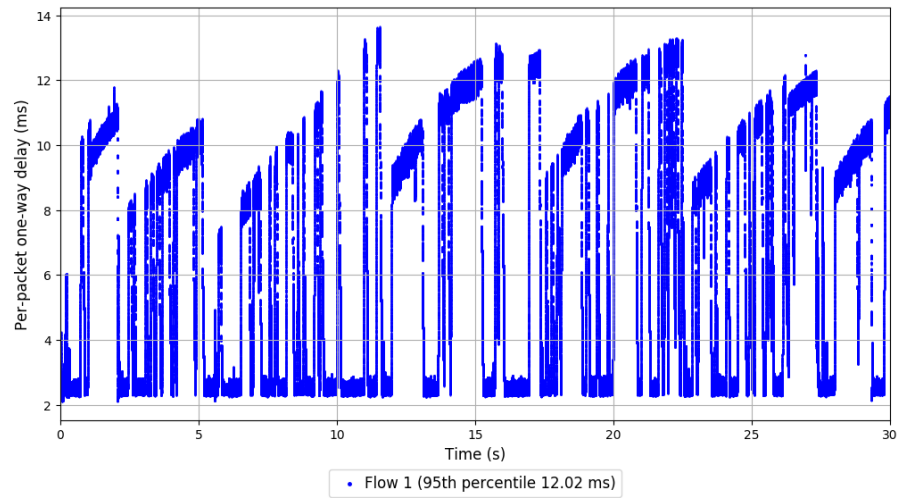
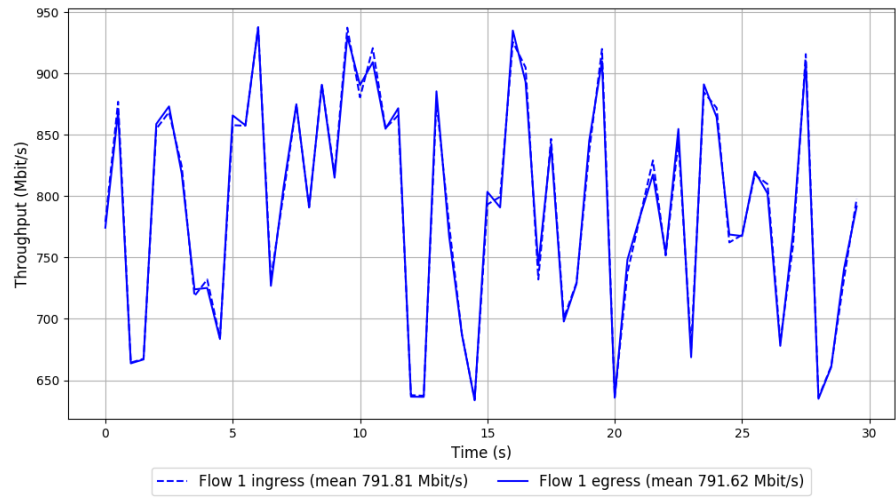


Run 2: Statistics of TCP Cubic

Start at: 2017-09-21 12:53:29
End at: 2017-09-21 12:53:59
Local clock offset: 0.294 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2017-09-21 17:16:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 791.62 Mbit/s
95th percentile per-packet one-way delay: 12.024 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 791.62 Mbit/s
95th percentile per-packet one-way delay: 12.024 ms
Loss rate: 0.02%

Run 2: Report of TCP Cubic — Data Link

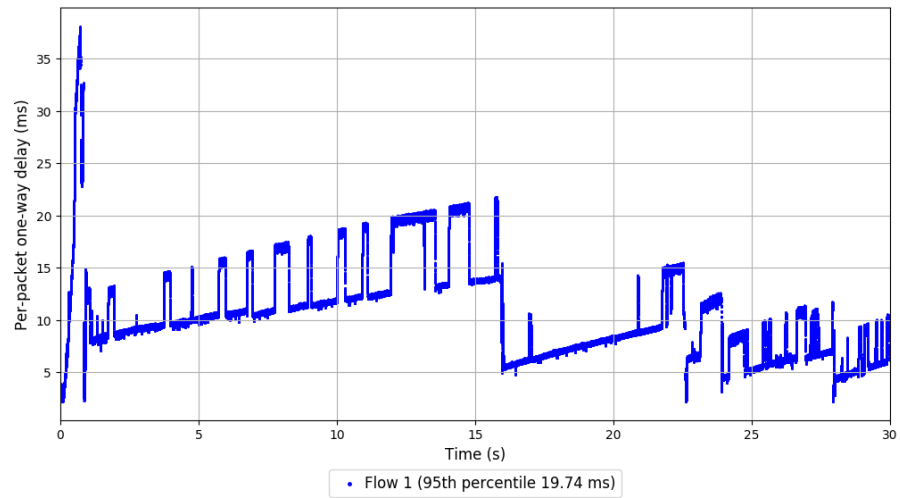
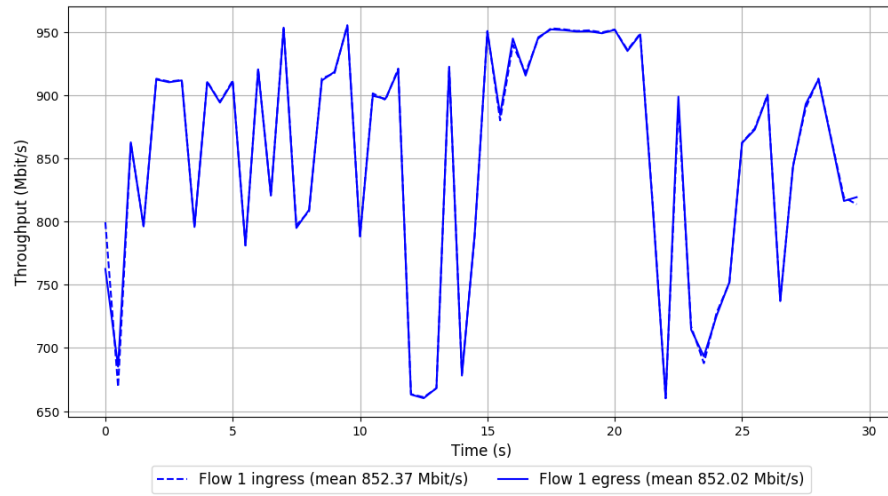


Run 3: Statistics of TCP Cubic

Start at: 2017-09-21 13:11:46
End at: 2017-09-21 13:12:16
Local clock offset: 0.282 ms
Remote clock offset: -0.148 ms

Below is generated by plot.py at 2017-09-21 17:16:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 852.02 Mbit/s
95th percentile per-packet one-way delay: 19.743 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 852.02 Mbit/s
95th percentile per-packet one-way delay: 19.743 ms
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link

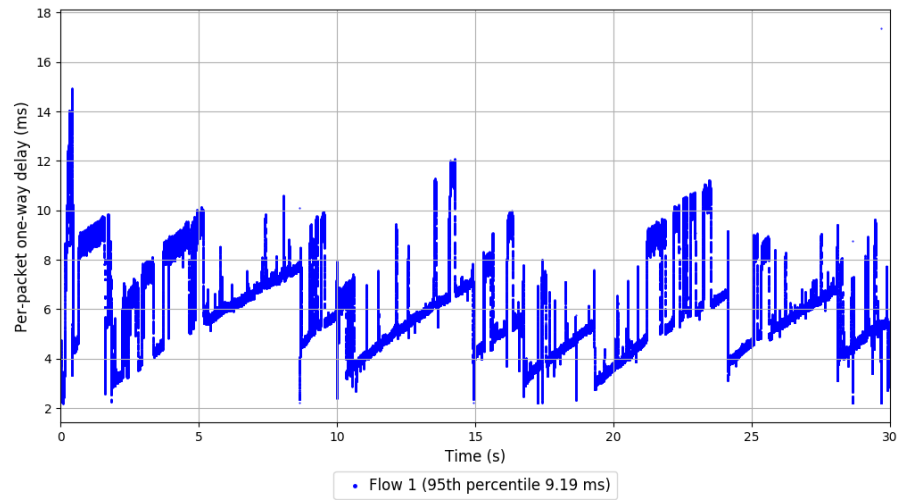
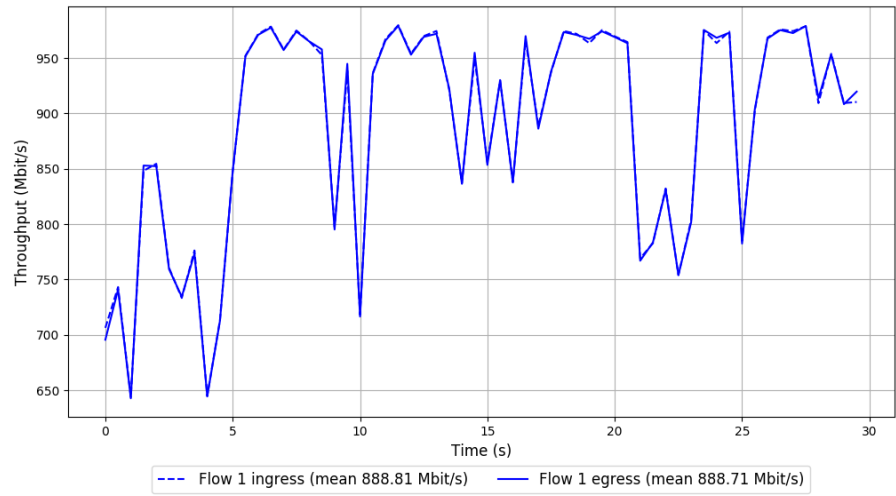


Run 4: Statistics of TCP Cubic

Start at: 2017-09-21 13:30:03
End at: 2017-09-21 13:30:33
Local clock offset: 0.241 ms
Remote clock offset: -0.252 ms

Below is generated by plot.py at 2017-09-21 17:17:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 888.71 Mbit/s
95th percentile per-packet one-way delay: 9.191 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 888.71 Mbit/s
95th percentile per-packet one-way delay: 9.191 ms
Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link

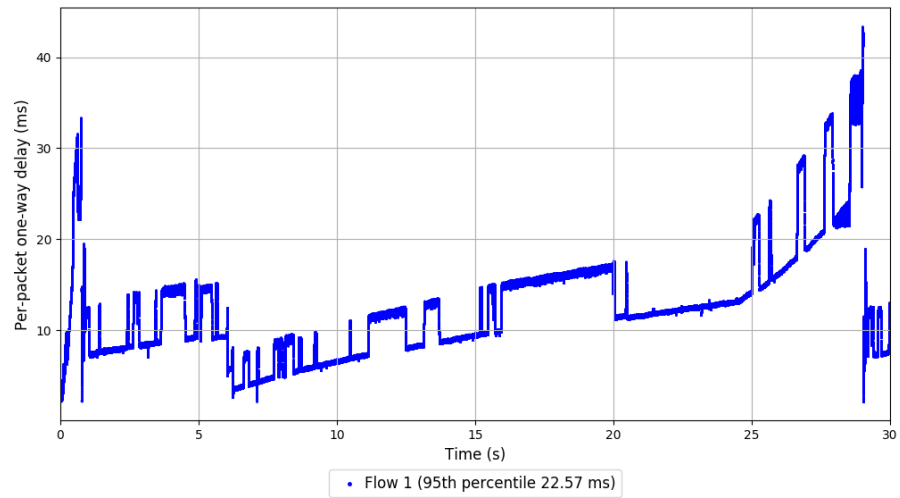
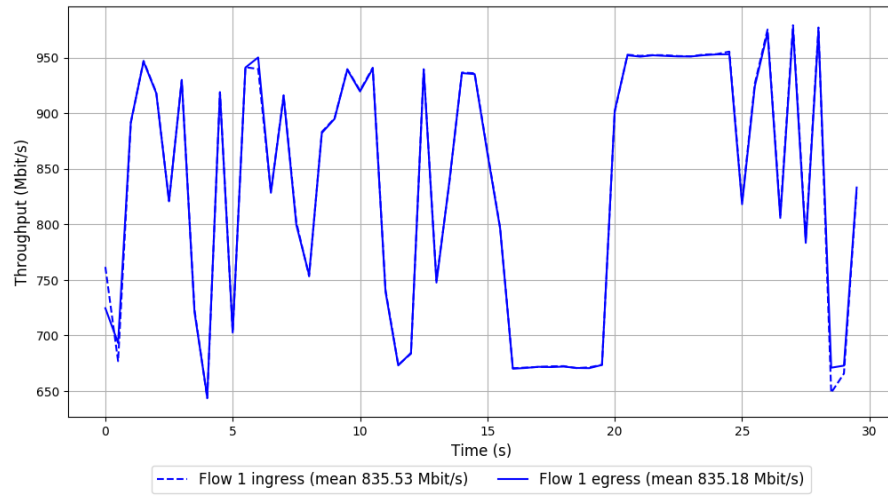


Run 5: Statistics of TCP Cubic

Start at: 2017-09-21 13:48:22
End at: 2017-09-21 13:48:52
Local clock offset: 0.144 ms
Remote clock offset: -0.406 ms

Below is generated by plot.py at 2017-09-21 17:17:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 835.18 Mbit/s
95th percentile per-packet one-way delay: 22.568 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 835.18 Mbit/s
95th percentile per-packet one-way delay: 22.568 ms
Loss rate: 0.04%

Run 5: Report of TCP Cubic — Data Link

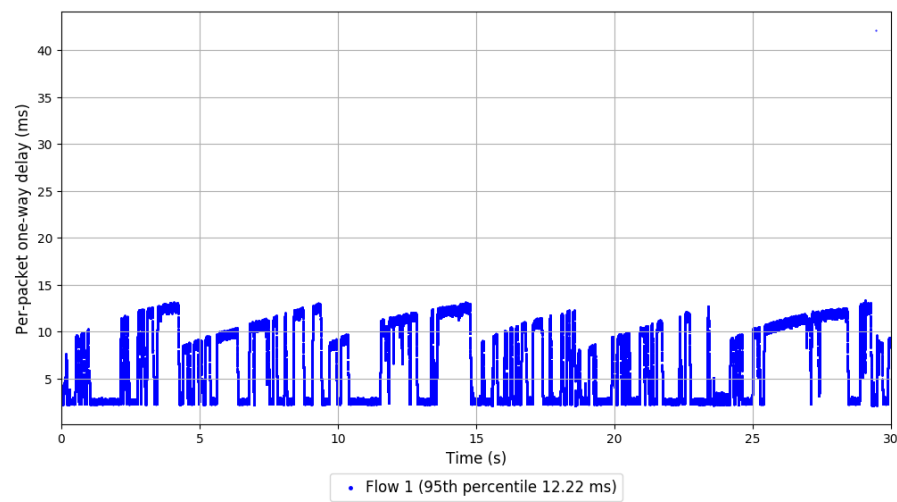
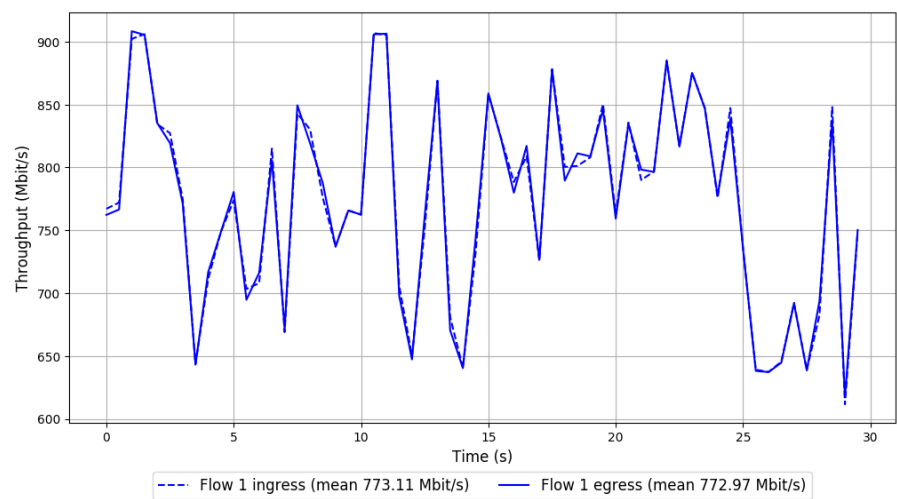


Run 6: Statistics of TCP Cubic

Start at: 2017-09-21 14:06:39
End at: 2017-09-21 14:07:09
Local clock offset: 0.106 ms
Remote clock offset: -0.518 ms

Below is generated by plot.py at 2017-09-21 17:17:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 772.97 Mbit/s
95th percentile per-packet one-way delay: 12.217 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 772.97 Mbit/s
95th percentile per-packet one-way delay: 12.217 ms
Loss rate: 0.02%

Run 6: Report of TCP Cubic — Data Link

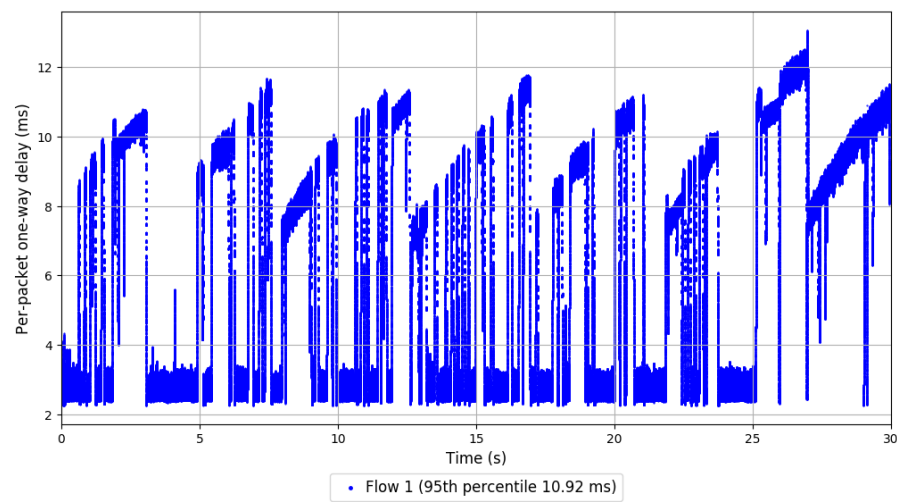
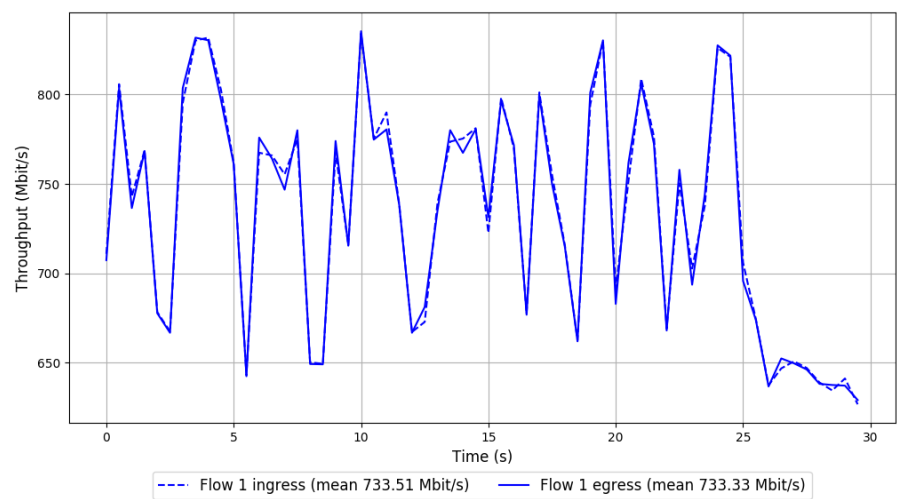


Run 7: Statistics of TCP Cubic

Start at: 2017-09-21 14:24:51
End at: 2017-09-21 14:25:21
Local clock offset: -0.017 ms
Remote clock offset: -0.481 ms

Below is generated by plot.py at 2017-09-21 17:17:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 733.33 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 733.33 Mbit/s
95th percentile per-packet one-way delay: 10.917 ms
Loss rate: 0.02%

Run 7: Report of TCP Cubic — Data Link

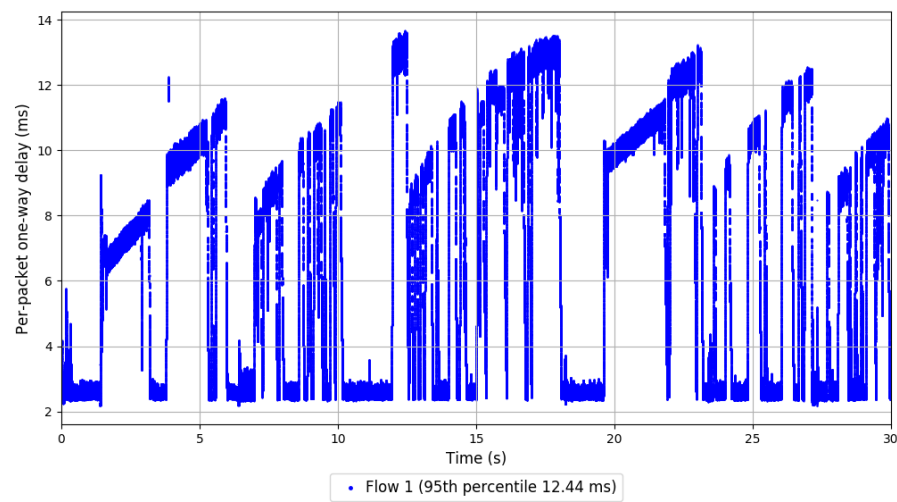
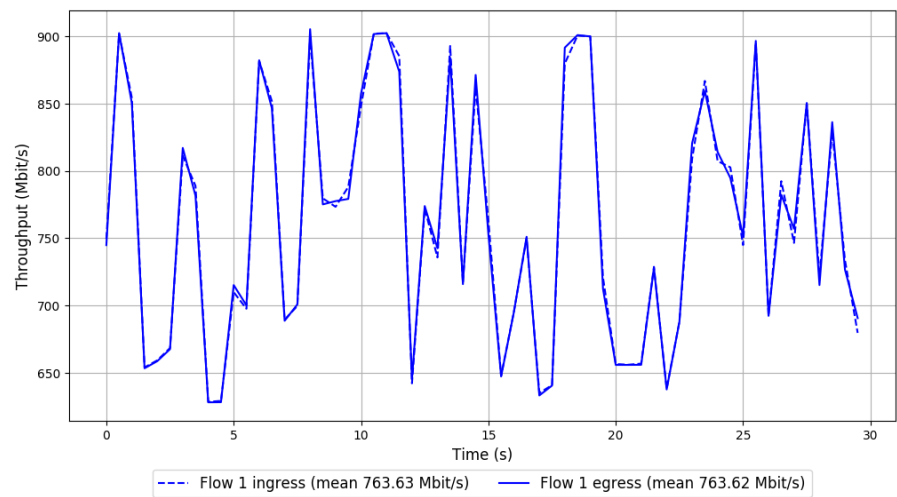


Run 8: Statistics of TCP Cubic

Start at: 2017-09-21 14:42:38
End at: 2017-09-21 14:43:08
Local clock offset: -0.014 ms
Remote clock offset: -0.536 ms

Below is generated by plot.py at 2017-09-21 17:25:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 763.62 Mbit/s
95th percentile per-packet one-way delay: 12.440 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 763.62 Mbit/s
95th percentile per-packet one-way delay: 12.440 ms
Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

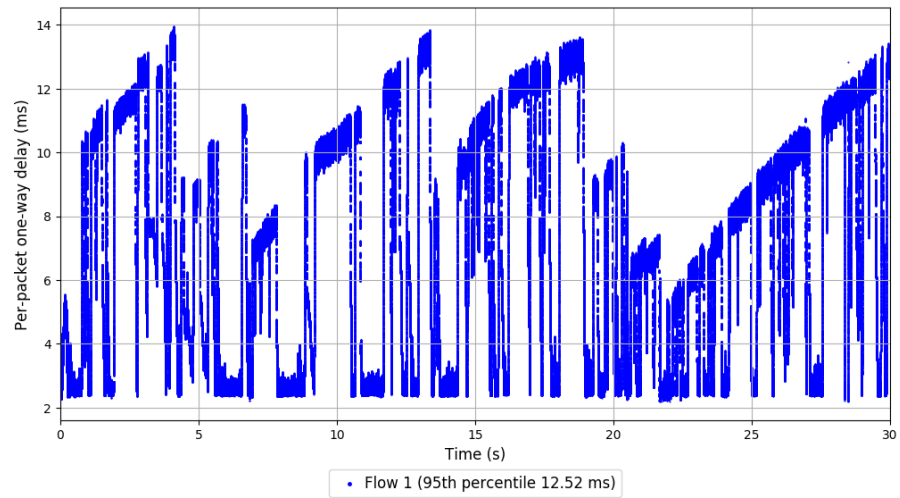
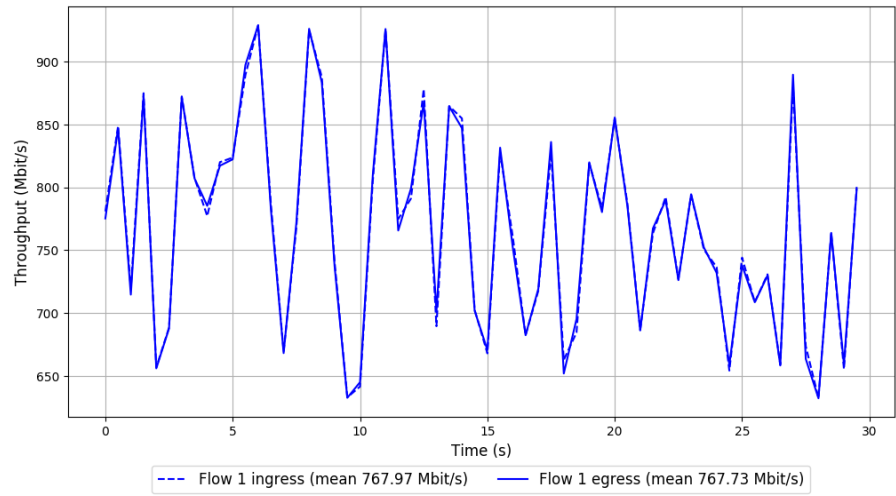


Run 9: Statistics of TCP Cubic

Start at: 2017-09-21 15:00:49
End at: 2017-09-21 15:01:19
Local clock offset: -0.111 ms
Remote clock offset: -0.588 ms

Below is generated by plot.py at 2017-09-21 17:26:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 767.73 Mbit/s
95th percentile per-packet one-way delay: 12.518 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 767.73 Mbit/s
95th percentile per-packet one-way delay: 12.518 ms
Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2017-09-21 15:19:11

End at: 2017-09-21 15:19:41

Local clock offset: -0.17 ms

Remote clock offset: -0.52 ms

Below is generated by plot.py at 2017-09-21 17:27:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.94 Mbit/s

95th percentile per-packet one-way delay: 20.585 ms

Loss rate: 0.02%

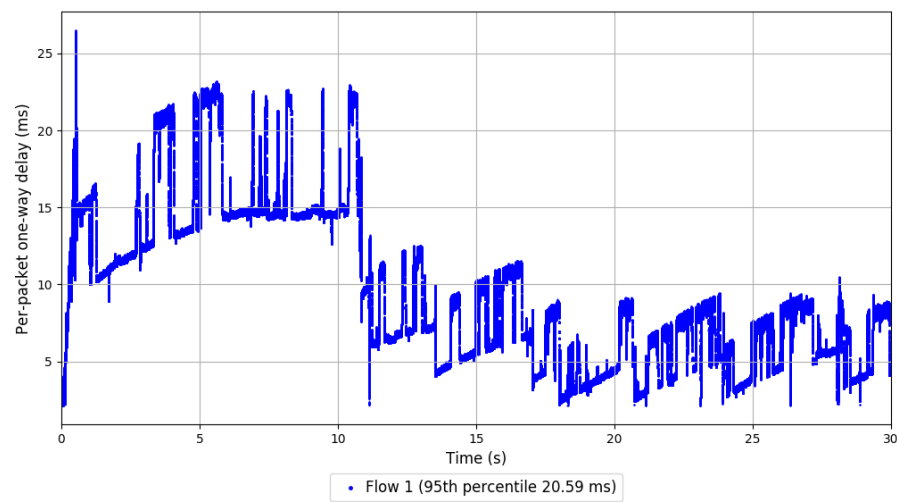
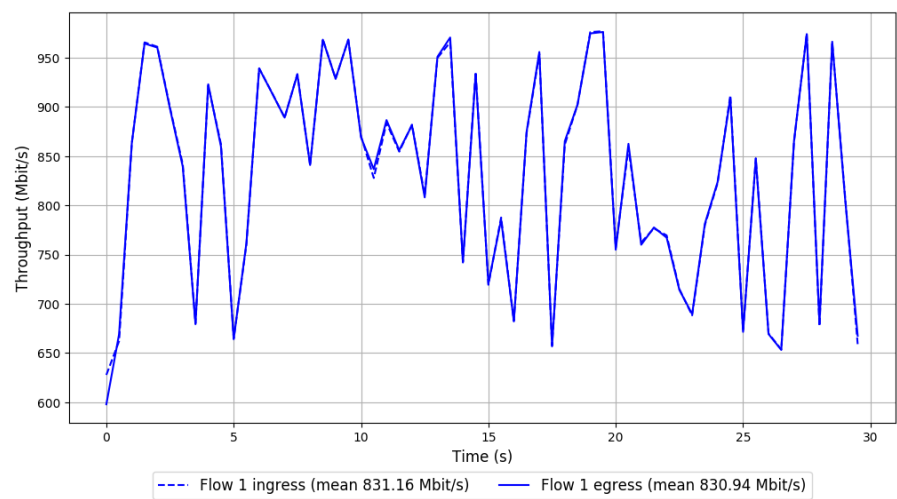
-- Flow 1:

Average throughput: 830.94 Mbit/s

95th percentile per-packet one-way delay: 20.585 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link

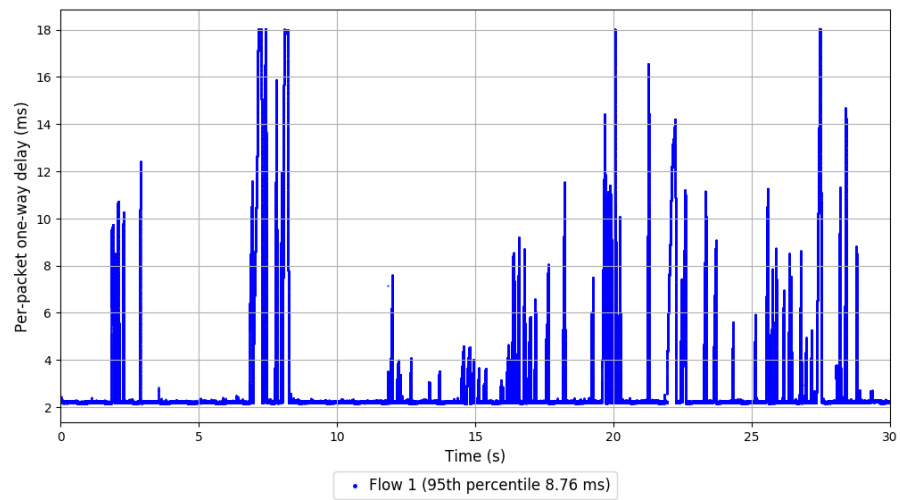
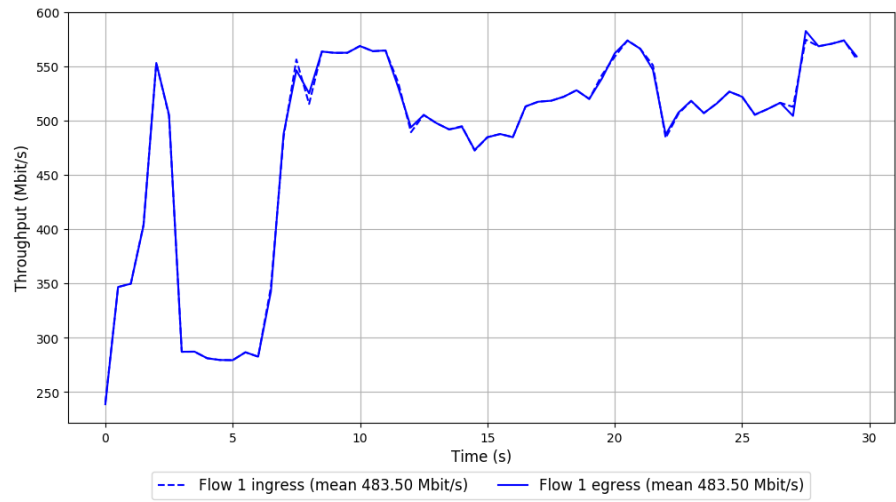


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-21 12:20:22
End at: 2017-09-21 12:20:52
Local clock offset: 0.31 ms
Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2017-09-21 17:27:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 483.50 Mbit/s
95th percentile per-packet one-way delay: 8.755 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 483.50 Mbit/s
95th percentile per-packet one-way delay: 8.755 ms
Loss rate: 0.00%
```


Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

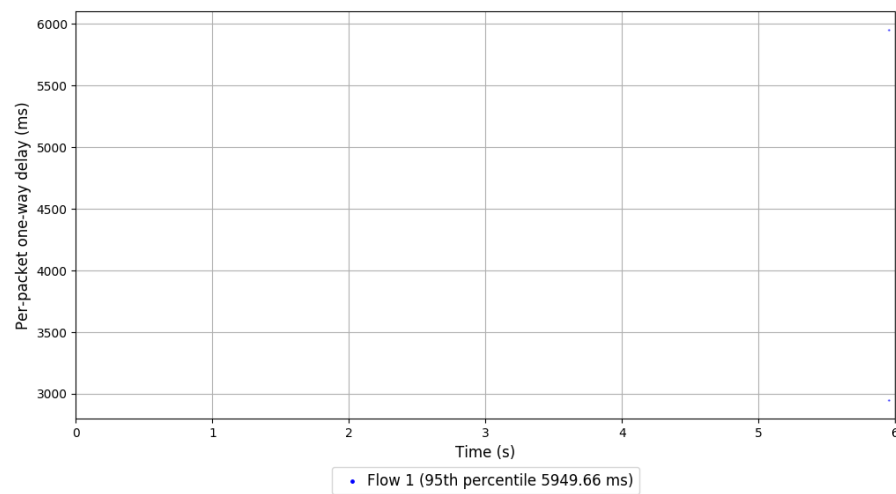
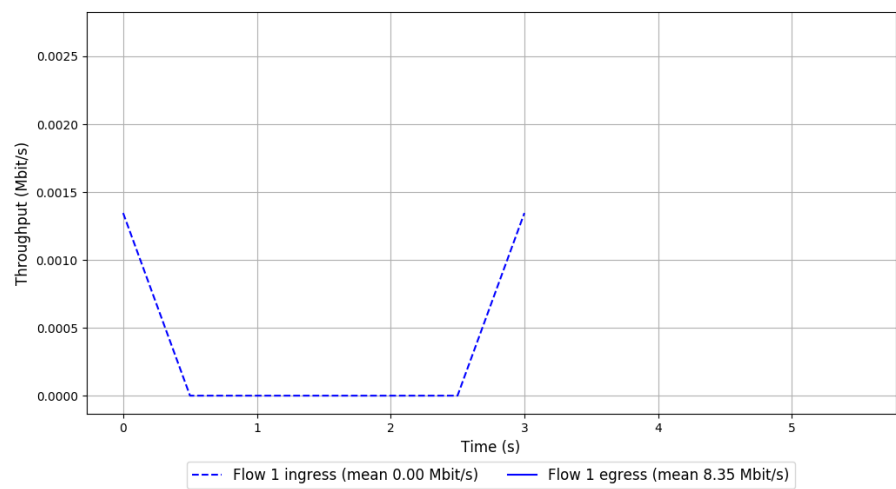
Start at: 2017-09-21 12:38:29

End at: 2017-09-21 12:38:59

Local clock offset: 0.349 ms

Remote clock offset: 0.172 ms

Run 2: Report of LEDBAT — Data Link

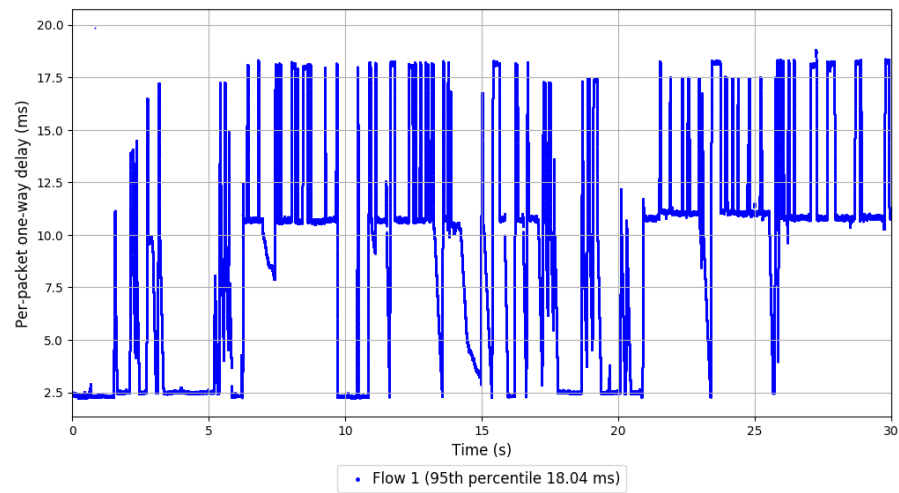
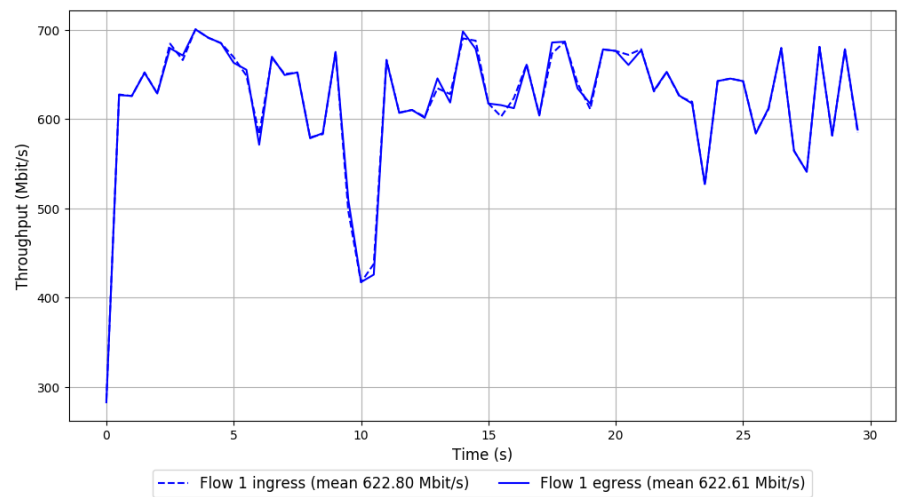


Run 3: Statistics of LEDBAT

Start at: 2017-09-21 12:56:08
End at: 2017-09-21 12:56:38
Local clock offset: 0.226 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2017-09-21 17:27:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 622.61 Mbit/s
95th percentile per-packet one-way delay: 18.044 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 622.61 Mbit/s
95th percentile per-packet one-way delay: 18.044 ms
Loss rate: 0.03%

Run 3: Report of LEDBAT — Data Link

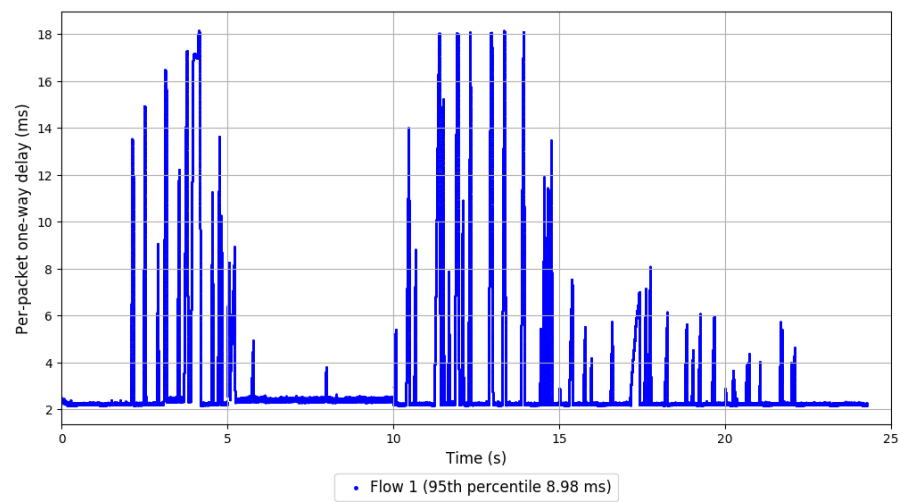
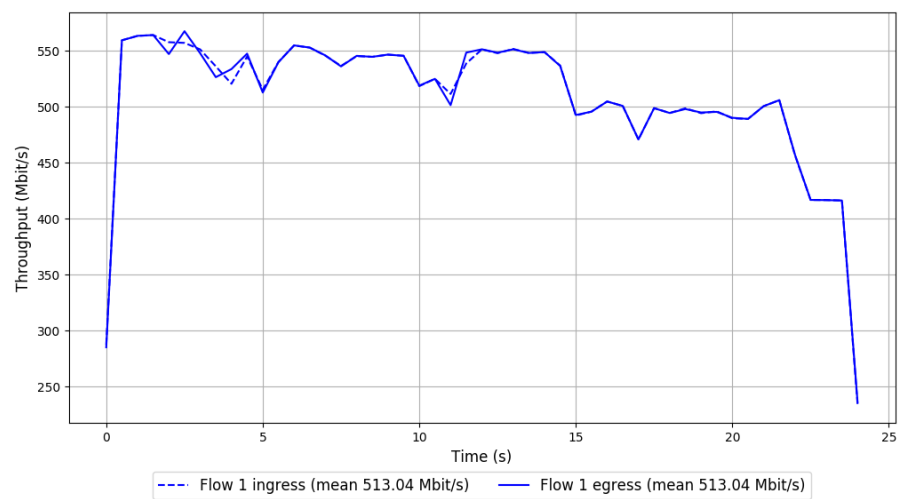


Run 4: Statistics of LEDBAT

Start at: 2017-09-21 13:14:27
End at: 2017-09-21 13:14:57
Local clock offset: 0.209 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2017-09-21 17:27:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 513.04 Mbit/s
95th percentile per-packet one-way delay: 8.983 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 513.04 Mbit/s
95th percentile per-packet one-way delay: 8.983 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2017-09-21 13:32:46

End at: 2017-09-21 13:33:16

Local clock offset: 0.189 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2017-09-21 17:27:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 507.63 Mbit/s

95th percentile per-packet one-way delay: 6.652 ms

Loss rate: 0.00%

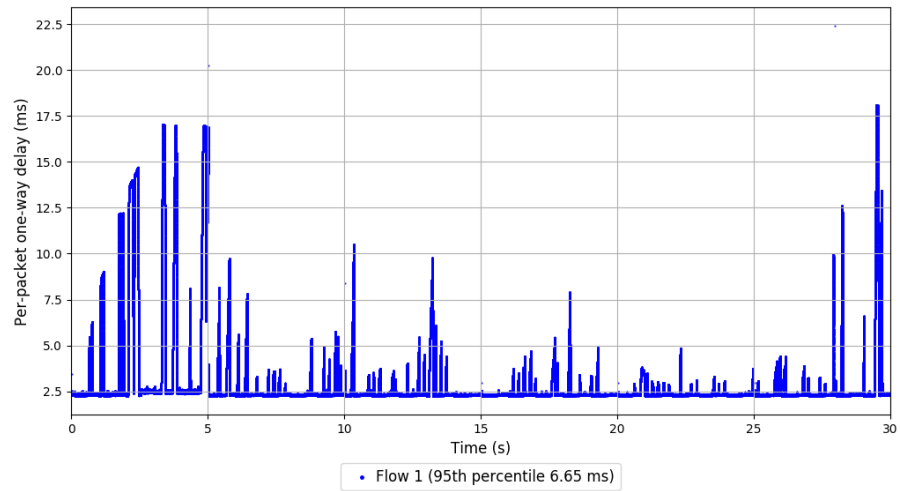
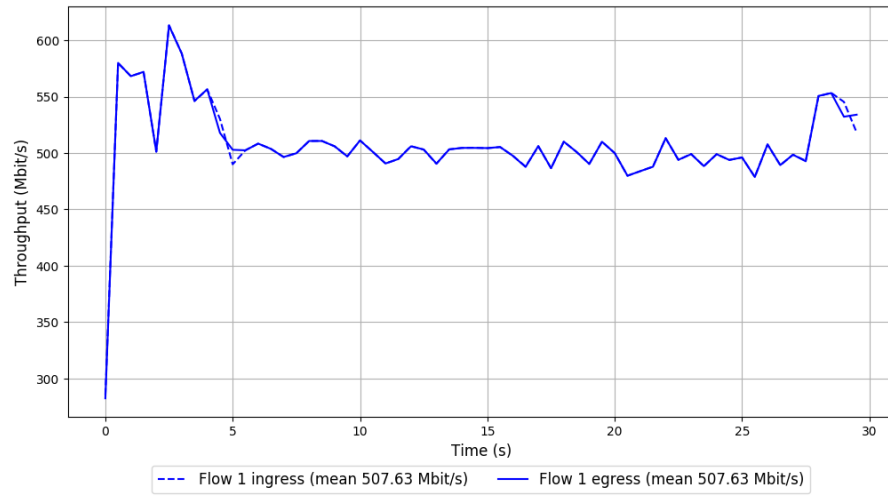
-- Flow 1:

Average throughput: 507.63 Mbit/s

95th percentile per-packet one-way delay: 6.652 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

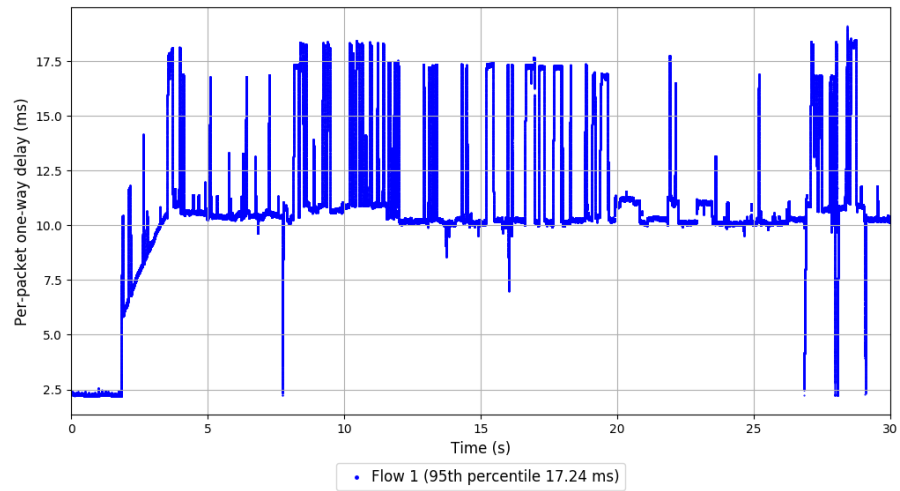
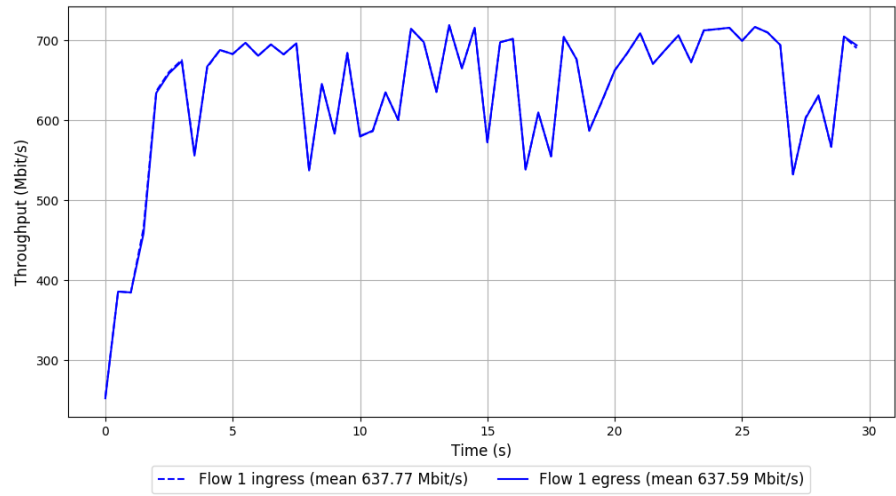


Run 6: Statistics of LEDBAT

Start at: 2017-09-21 13:51:02
End at: 2017-09-21 13:51:32
Local clock offset: 0.116 ms
Remote clock offset: -0.391 ms

Below is generated by plot.py at 2017-09-21 17:27:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 637.59 Mbit/s
95th percentile per-packet one-way delay: 17.243 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 637.59 Mbit/s
95th percentile per-packet one-way delay: 17.243 ms
Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link

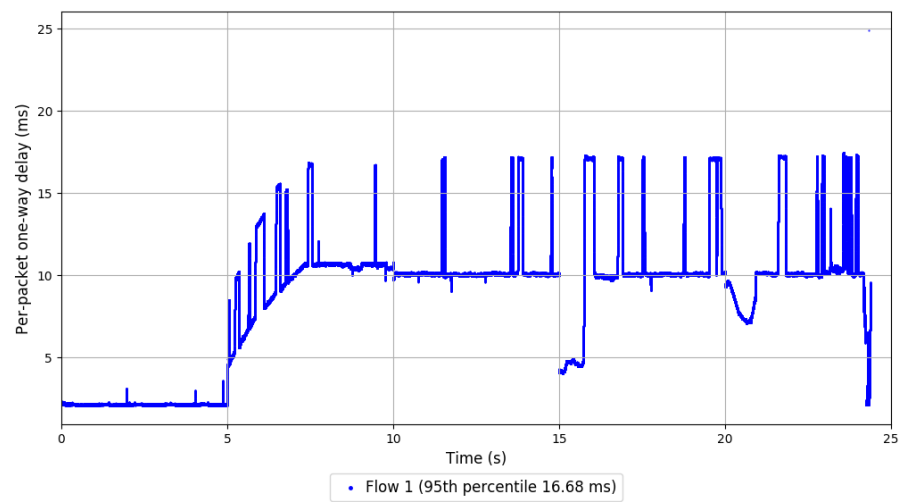
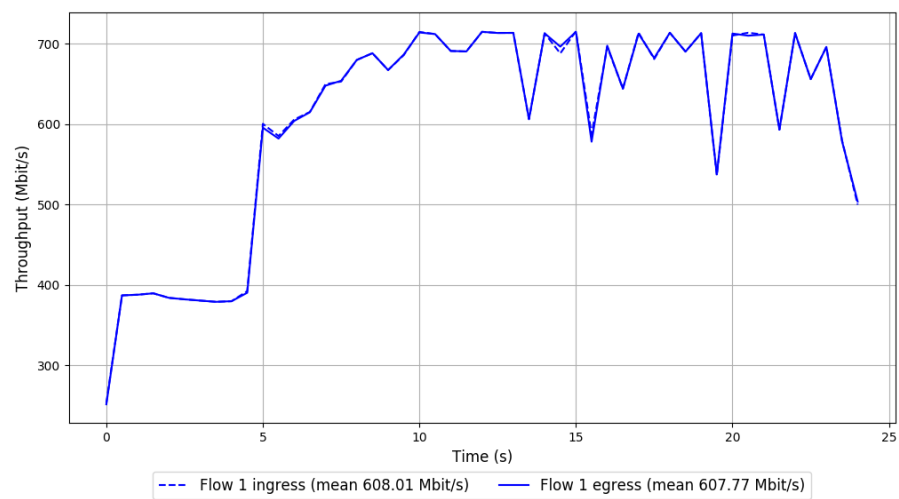


Run 7: Statistics of LEDBAT

Start at: 2017-09-21 14:09:18
End at: 2017-09-21 14:09:48
Local clock offset: 0.116 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2017-09-21 17:29:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 607.77 Mbit/s
95th percentile per-packet one-way delay: 16.684 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 607.77 Mbit/s
95th percentile per-packet one-way delay: 16.684 ms
Loss rate: 0.04%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

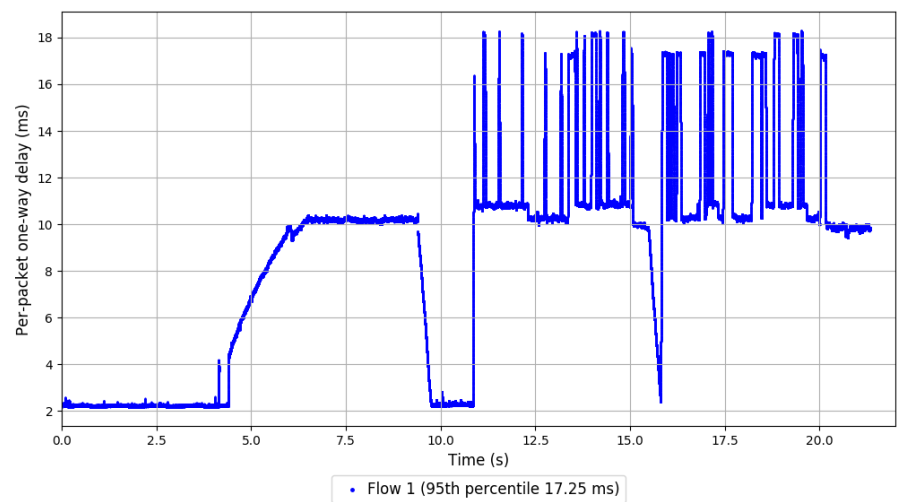
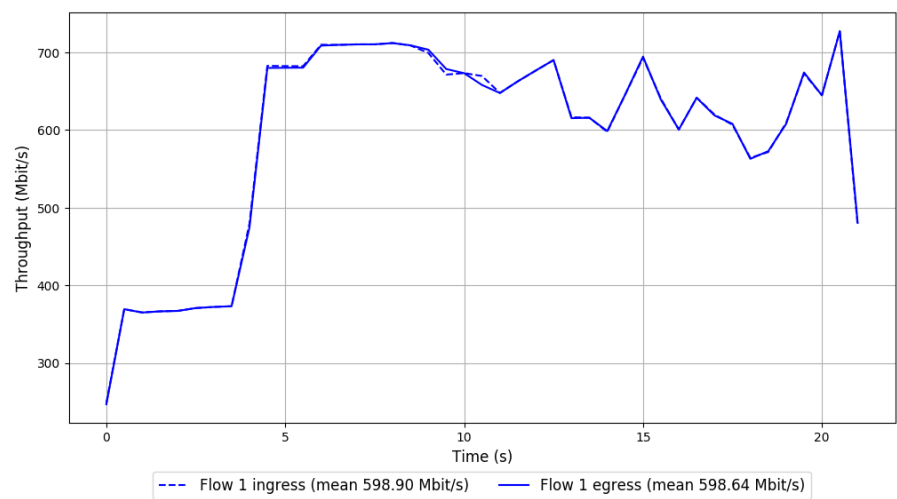
Start at: 2017-09-21 14:27:29

End at: 2017-09-21 14:27:59

Local clock offset: 0.06 ms

Remote clock offset: -0.468 ms

Run 8: Report of LEDBAT — Data Link

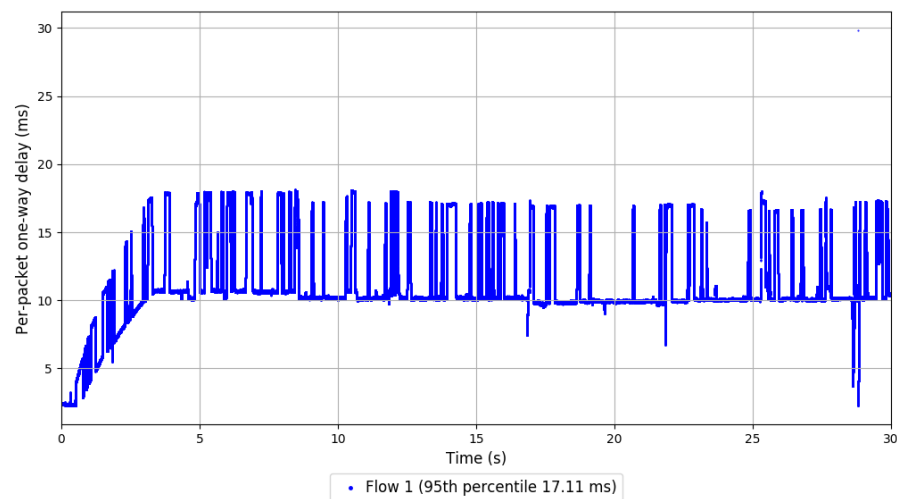
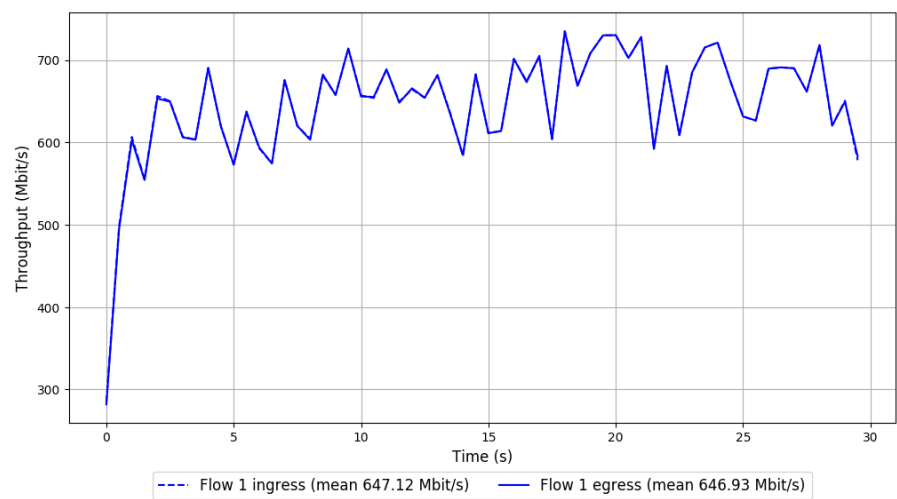


Run 9: Statistics of LEDBAT

Start at: 2017-09-21 14:45:16
End at: 2017-09-21 14:45:46
Local clock offset: -0.049 ms
Remote clock offset: -0.545 ms

Below is generated by plot.py at 2017-09-21 17:33:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 646.93 Mbit/s
95th percentile per-packet one-way delay: 17.105 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 646.93 Mbit/s
95th percentile per-packet one-way delay: 17.105 ms
Loss rate: 0.03%

Run 9: Report of LEDBAT — Data Link

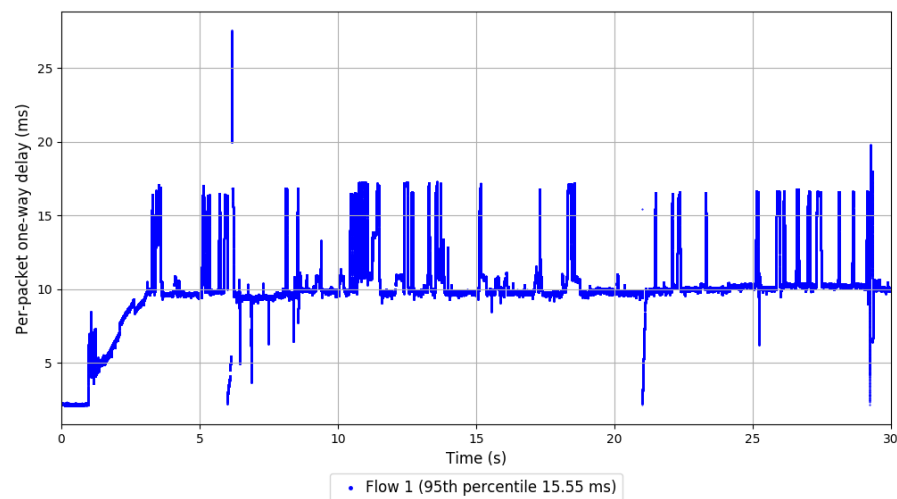
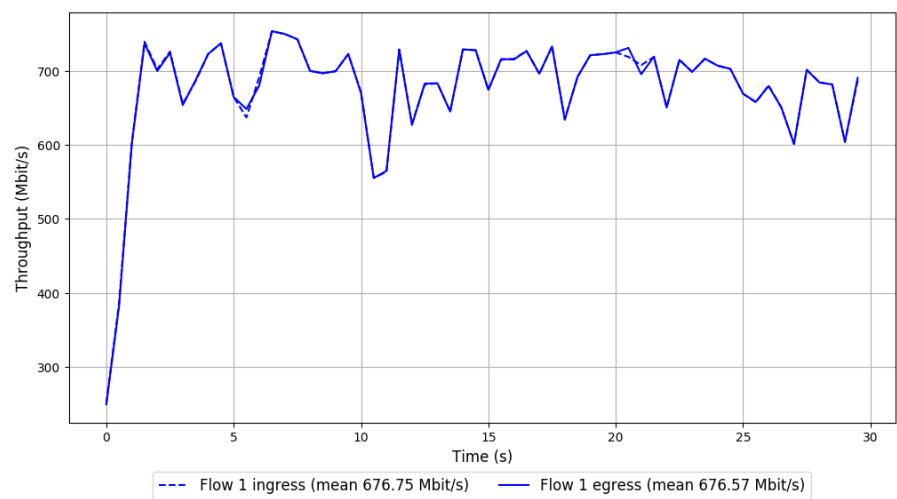


Run 10: Statistics of LEDBAT

Start at: 2017-09-21 15:03:27
End at: 2017-09-21 15:03:57
Local clock offset: -0.097 ms
Remote clock offset: -0.625 ms

Below is generated by plot.py at 2017-09-21 17:34:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 676.57 Mbit/s
95th percentile per-packet one-way delay: 15.555 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 676.57 Mbit/s
95th percentile per-packet one-way delay: 15.555 ms
Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

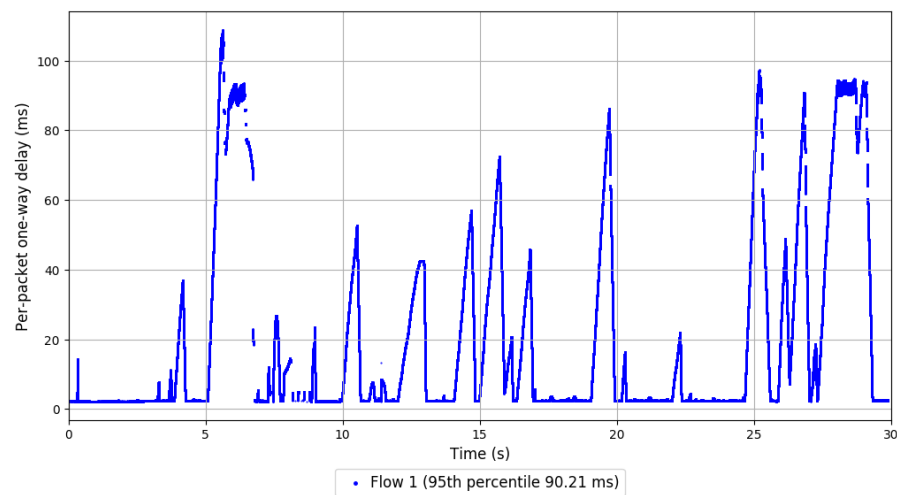
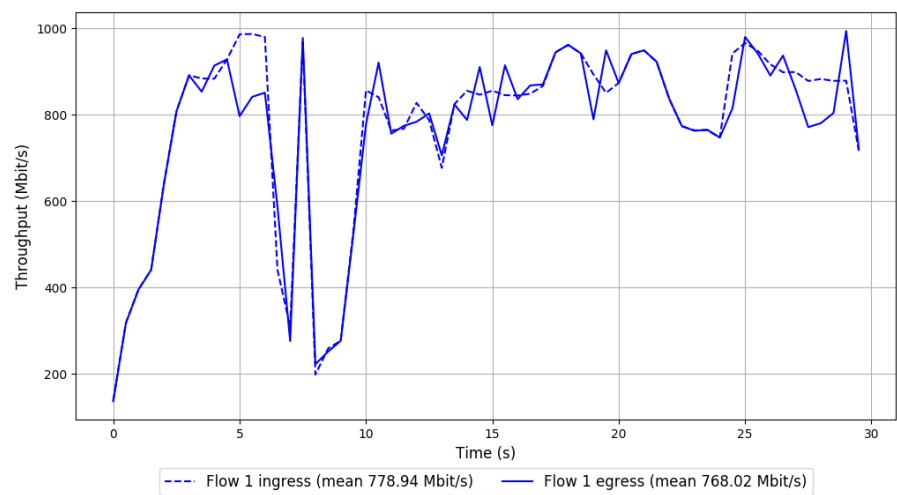


```
Run 1: Statistics of PCC

Start at: 2017-09-21 12:25:40
End at: 2017-09-21 12:26:10
Local clock offset: 0.349 ms
Remote clock offset: 0.269 ms

# Below is generated by plot.py at 2017-09-21 17:36:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 768.02 Mbit/s
95th percentile per-packet one-way delay: 90.214 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 768.02 Mbit/s
95th percentile per-packet one-way delay: 90.214 ms
Loss rate: 1.40%
```

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2017-09-21 12:43:22

End at: 2017-09-21 12:43:52

Local clock offset: 0.245 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2017-09-21 17:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 776.03 Mbit/s

95th percentile per-packet one-way delay: 91.247 ms

Loss rate: 1.94%

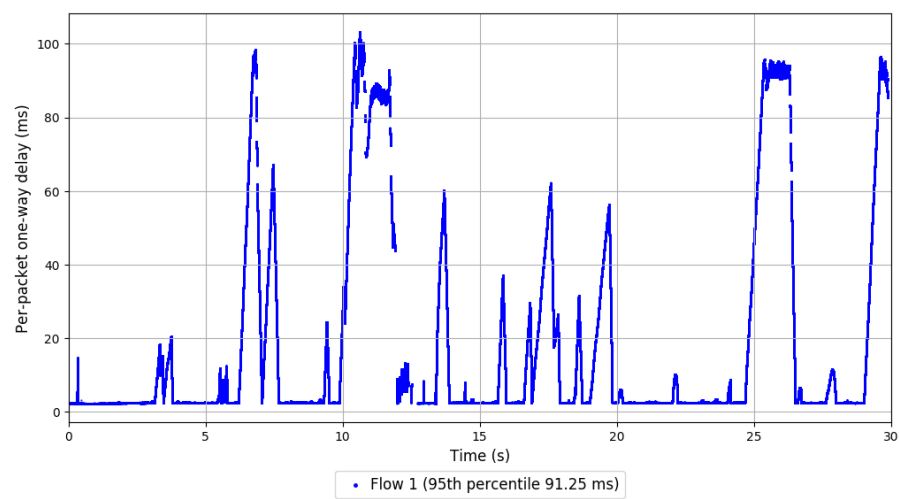
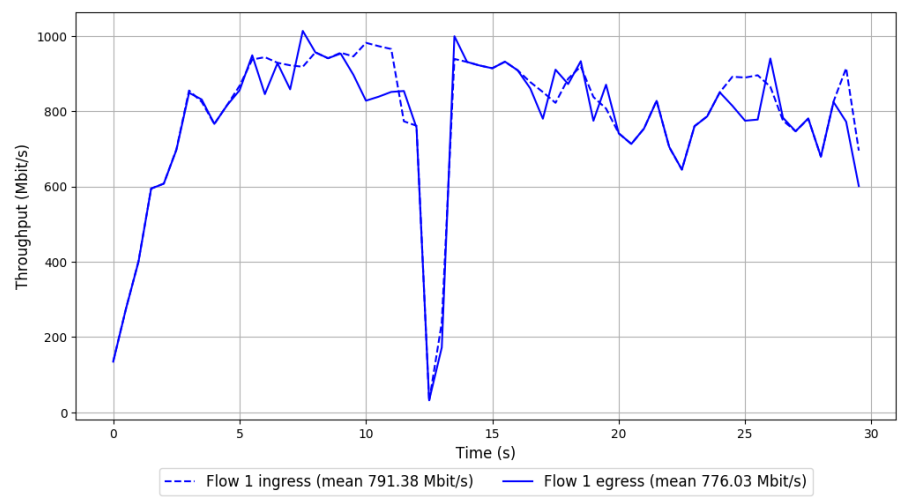
-- Flow 1:

Average throughput: 776.03 Mbit/s

95th percentile per-packet one-way delay: 91.247 ms

Loss rate: 1.94%

Run 2: Report of PCC — Data Link

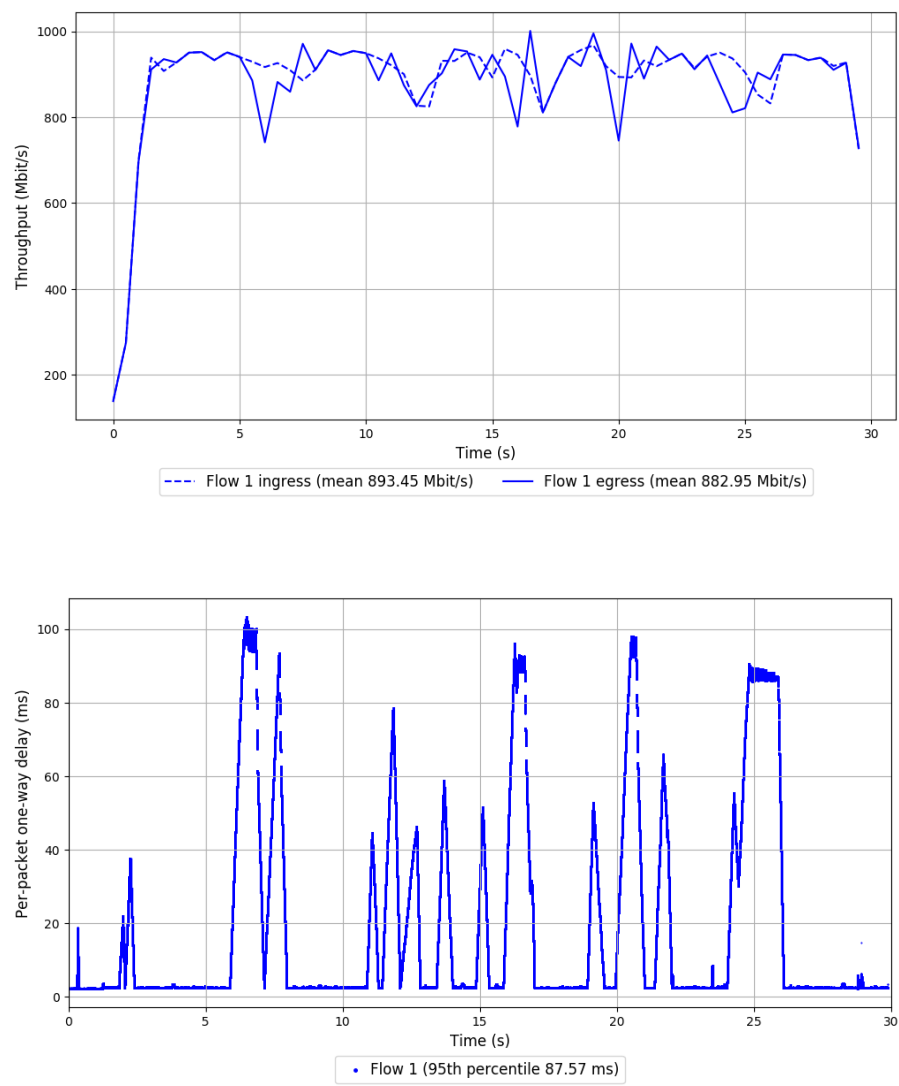


Run 3: Statistics of PCC

Start at: 2017-09-21 13:01:31
End at: 2017-09-21 13:02:02
Local clock offset: 0.295 ms
Remote clock offset: -0.112 ms

Below is generated by plot.py at 2017-09-21 17:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 882.95 Mbit/s
95th percentile per-packet one-way delay: 87.567 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 882.95 Mbit/s
95th percentile per-packet one-way delay: 87.567 ms
Loss rate: 1.17%

Run 3: Report of PCC — Data Link

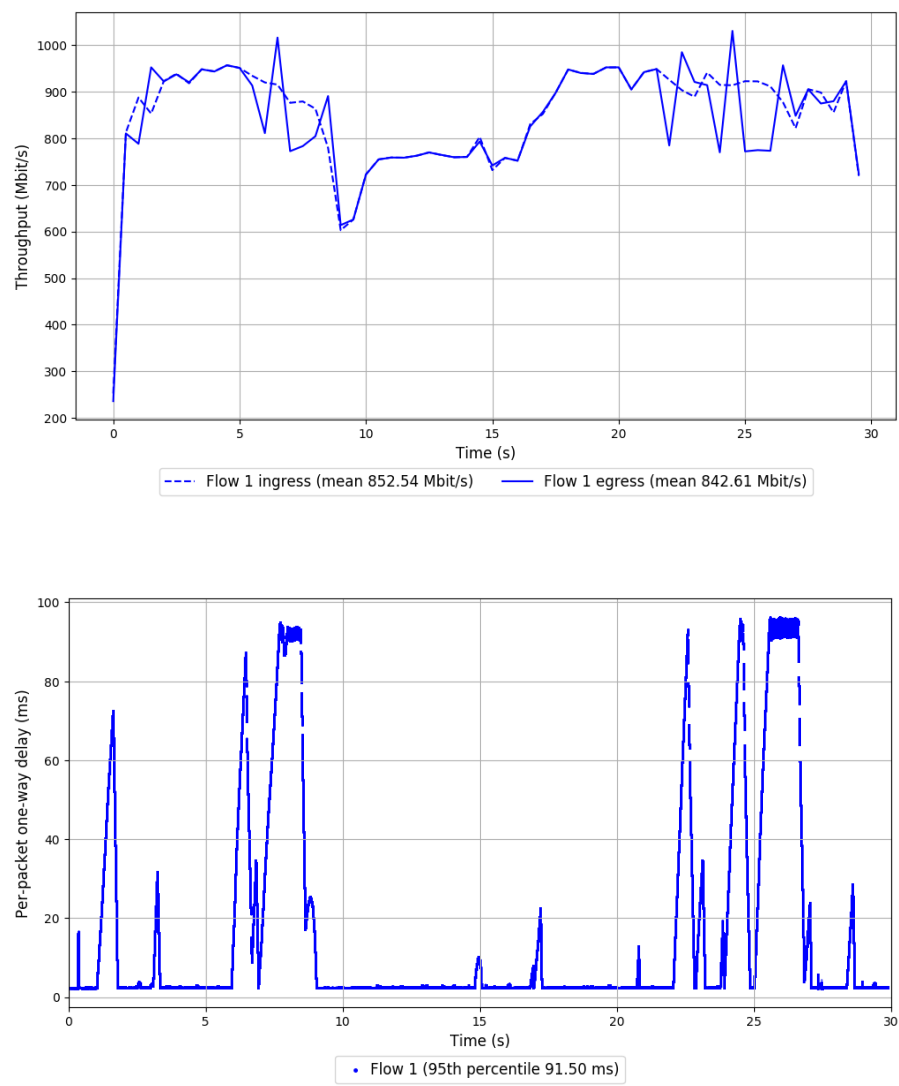


Run 4: Statistics of PCC

Start at: 2017-09-21 13:19:47
End at: 2017-09-21 13:20:17
Local clock offset: 0.3 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2017-09-21 17:39:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 842.61 Mbit/s
95th percentile per-packet one-way delay: 91.495 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 842.61 Mbit/s
95th percentile per-packet one-way delay: 91.495 ms
Loss rate: 1.16%

Run 4: Report of PCC — Data Link

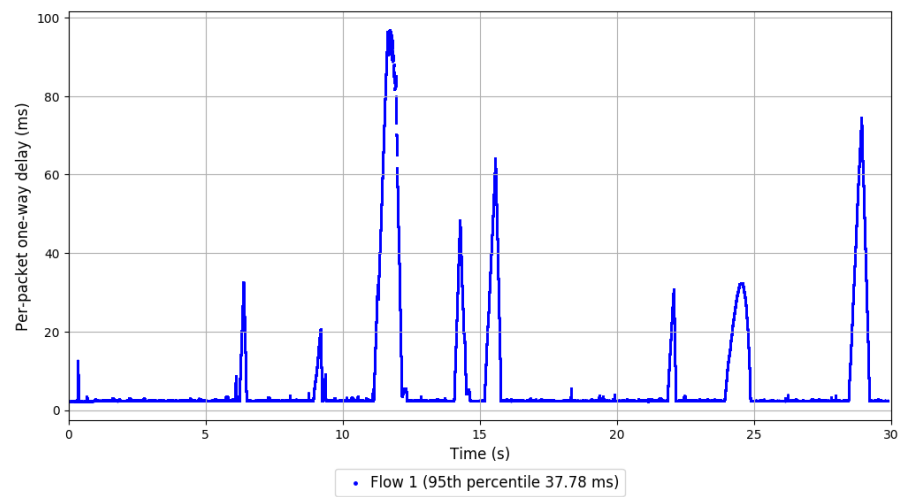
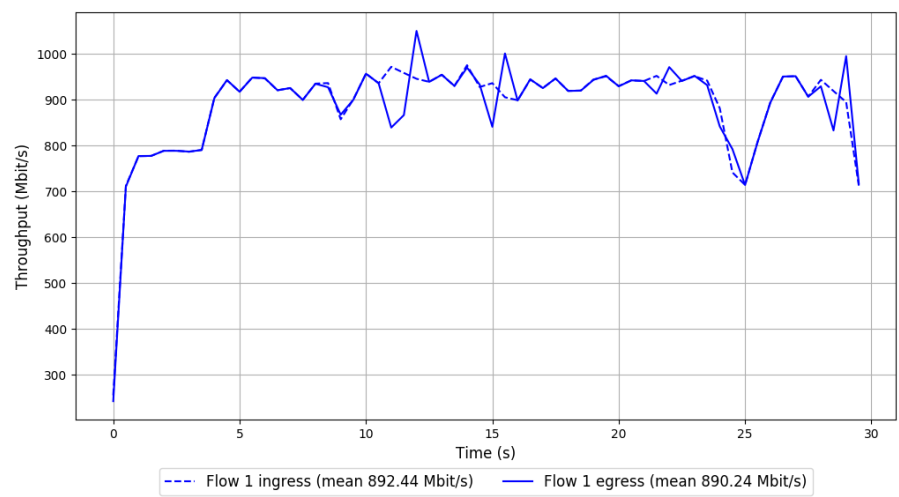


Run 5: Statistics of PCC

Start at: 2017-09-21 13:38:06
End at: 2017-09-21 13:38:36
Local clock offset: 0.256 ms
Remote clock offset: -0.289 ms

Below is generated by plot.py at 2017-09-21 17:41:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 890.24 Mbit/s
95th percentile per-packet one-way delay: 37.785 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 890.24 Mbit/s
95th percentile per-packet one-way delay: 37.785 ms
Loss rate: 0.25%

Run 5: Report of PCC — Data Link

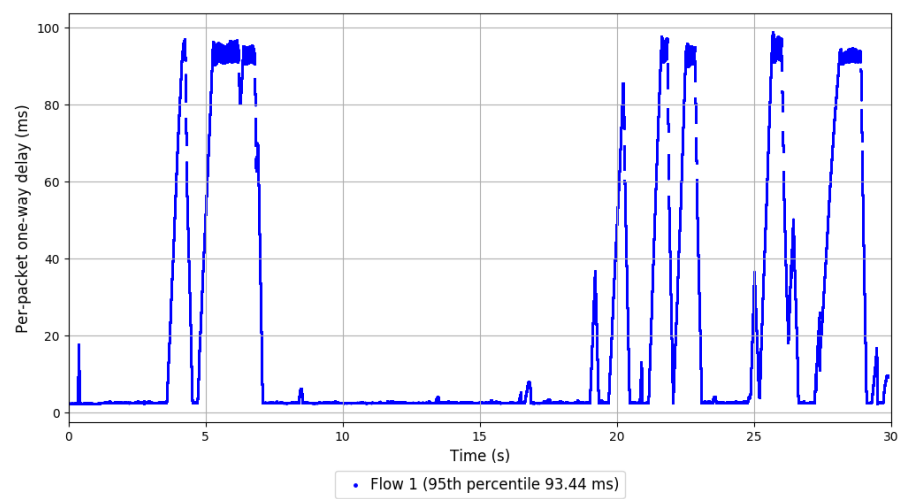
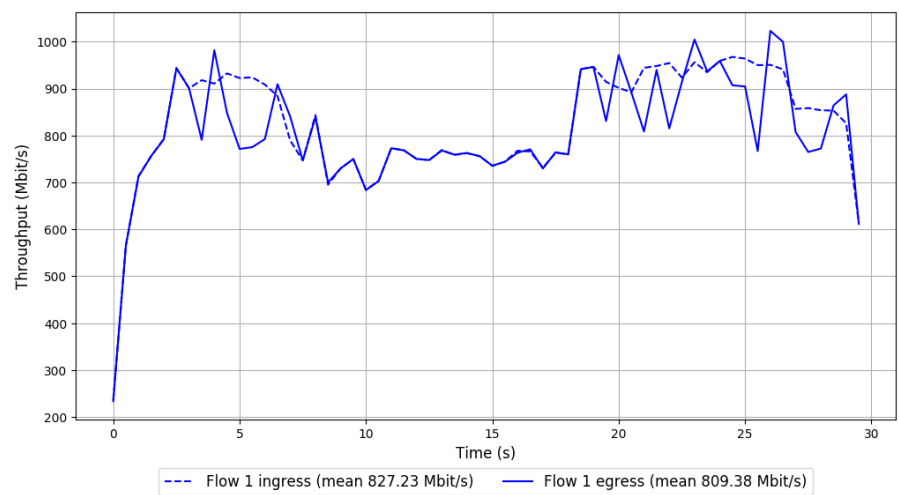


Run 6: Statistics of PCC

Start at: 2017-09-21 13:56:28
End at: 2017-09-21 13:56:58
Local clock offset: 0.068 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2017-09-21 17:41:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 809.38 Mbit/s
95th percentile per-packet one-way delay: 93.437 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 809.38 Mbit/s
95th percentile per-packet one-way delay: 93.437 ms
Loss rate: 2.16%

Run 6: Report of PCC — Data Link

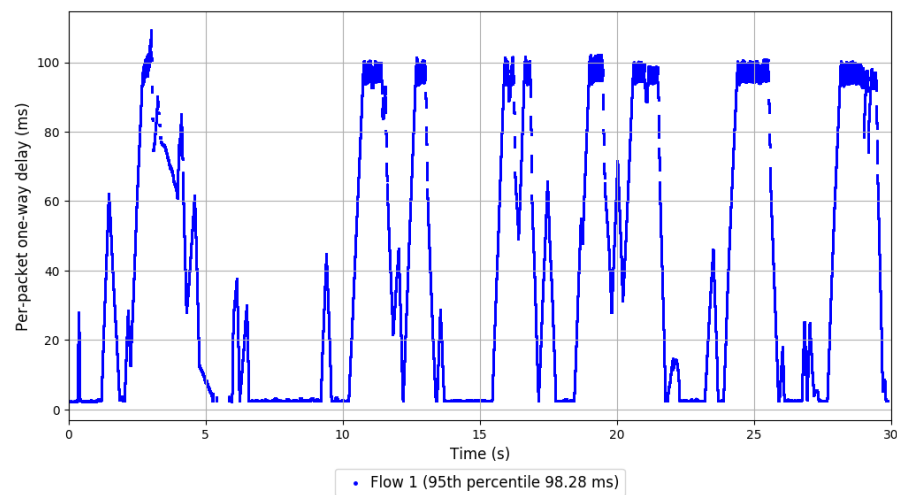
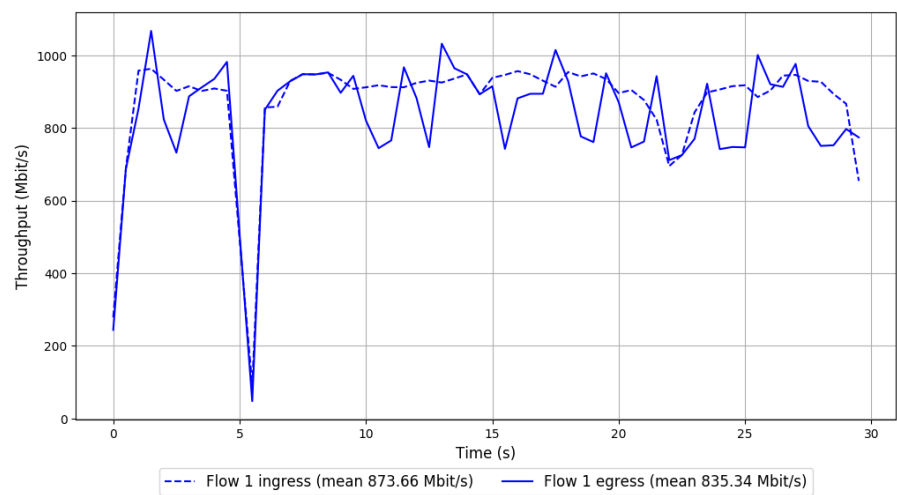


Run 7: Statistics of PCC

Start at: 2017-09-21 14:14:38
End at: 2017-09-21 14:15:08
Local clock offset: 0.101 ms
Remote clock offset: -0.379 ms

Below is generated by plot.py at 2017-09-21 17:47:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 835.34 Mbit/s
95th percentile per-packet one-way delay: 98.279 ms
Loss rate: 4.39%
-- Flow 1:
Average throughput: 835.34 Mbit/s
95th percentile per-packet one-way delay: 98.279 ms
Loss rate: 4.39%

Run 7: Report of PCC — Data Link

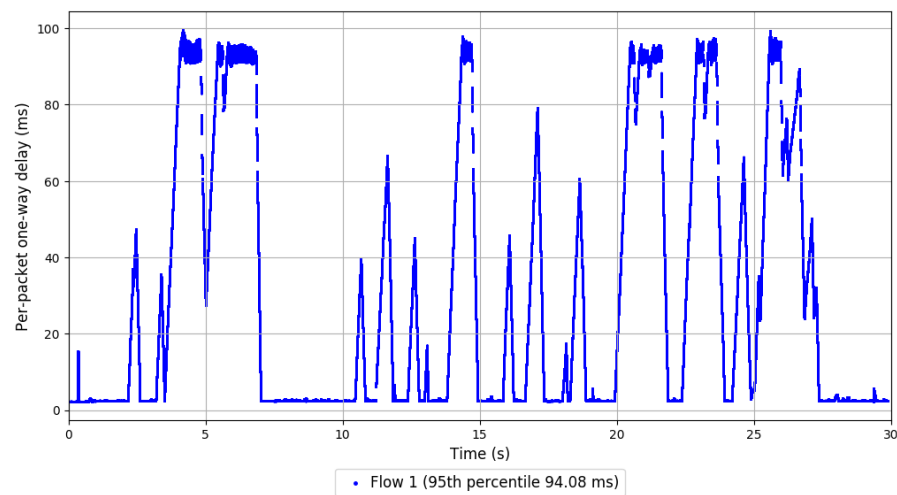
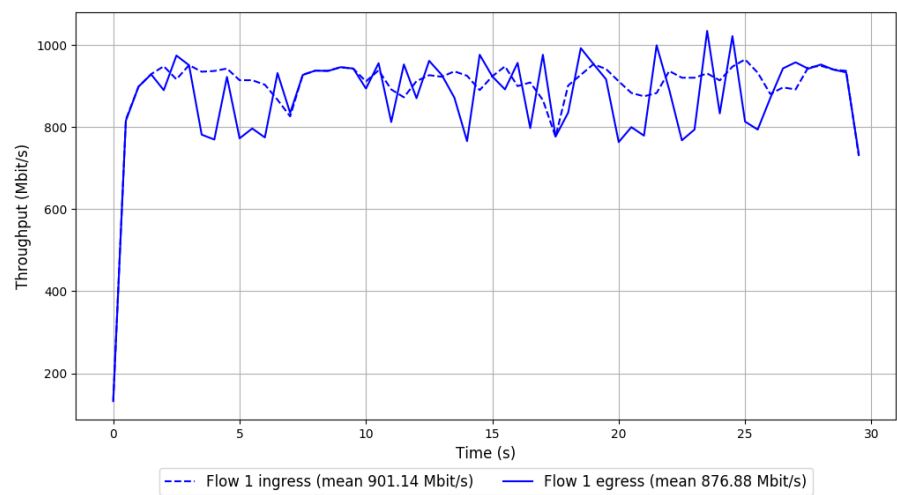


Run 8: Statistics of PCC

Start at: 2017-09-21 14:32:50
End at: 2017-09-21 14:33:20
Local clock offset: 0.032 ms
Remote clock offset: -0.496 ms

Below is generated by plot.py at 2017-09-21 17:48:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 876.88 Mbit/s
95th percentile per-packet one-way delay: 94.079 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 876.88 Mbit/s
95th percentile per-packet one-way delay: 94.079 ms
Loss rate: 2.69%

Run 8: Report of PCC — Data Link

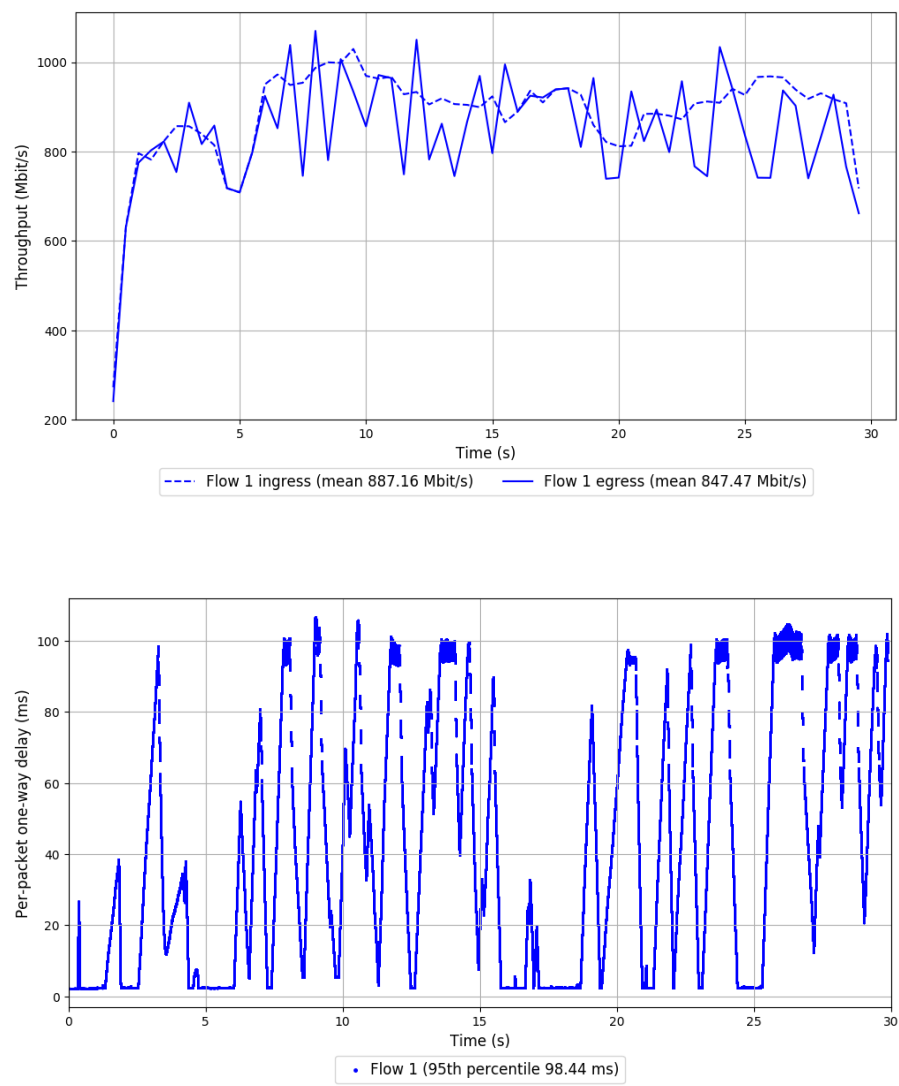


Run 9: Statistics of PCC

Start at: 2017-09-21 14:50:38
End at: 2017-09-21 14:51:08
Local clock offset: -0.111 ms
Remote clock offset: -0.637 ms

Below is generated by plot.py at 2017-09-21 17:49:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 847.47 Mbit/s
95th percentile per-packet one-way delay: 98.443 ms
Loss rate: 4.47%
-- Flow 1:
Average throughput: 847.47 Mbit/s
95th percentile per-packet one-way delay: 98.443 ms
Loss rate: 4.47%

Run 9: Report of PCC — Data Link



Run 10: Statistics of PCC

Start at: 2017-09-21 15:08:55

End at: 2017-09-21 15:09:25

Local clock offset: -0.152 ms

Remote clock offset: -0.53 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.24 Mbit/s

95th percentile per-packet one-way delay: 70.002 ms

Loss rate: 0.37%

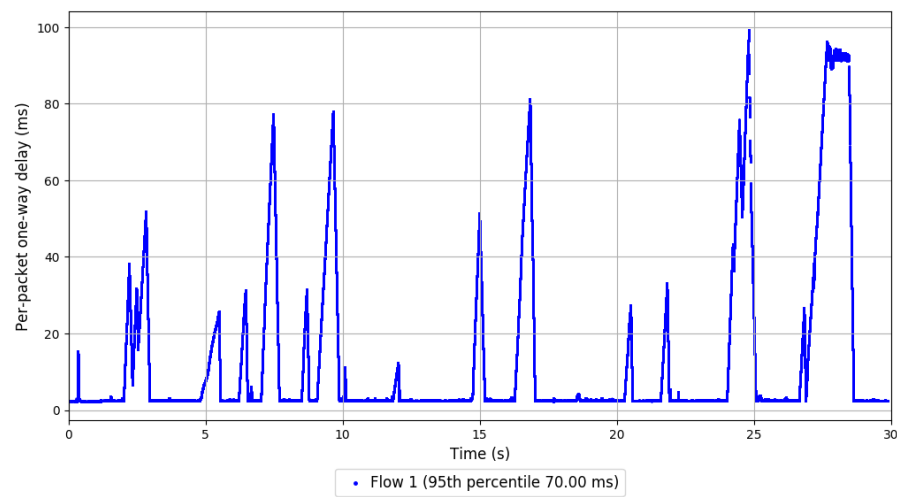
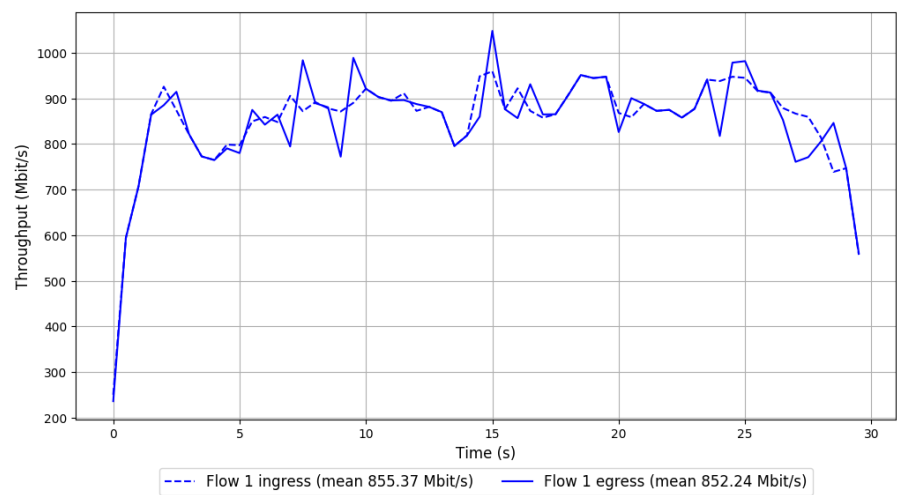
-- Flow 1:

Average throughput: 852.24 Mbit/s

95th percentile per-packet one-way delay: 70.002 ms

Loss rate: 0.37%

Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

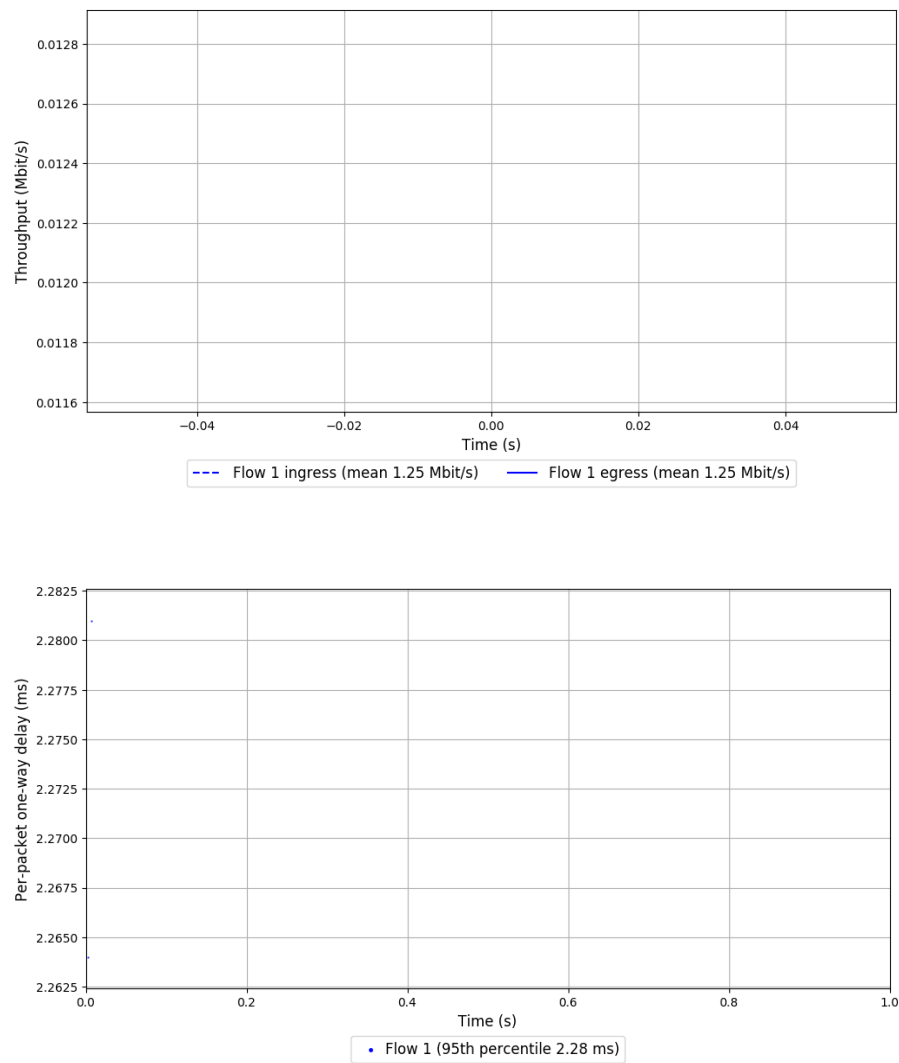
Start at: 2017-09-21 12:27:06

End at: 2017-09-21 12:27:36

Local clock offset: 0.282 ms

Remote clock offset: 0.254 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2017-09-21 12:44:48

End at: 2017-09-21 12:45:18

Local clock offset: 0.289 ms

Remote clock offset: 0.097 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 2.273 ms

Loss rate: 0.00%

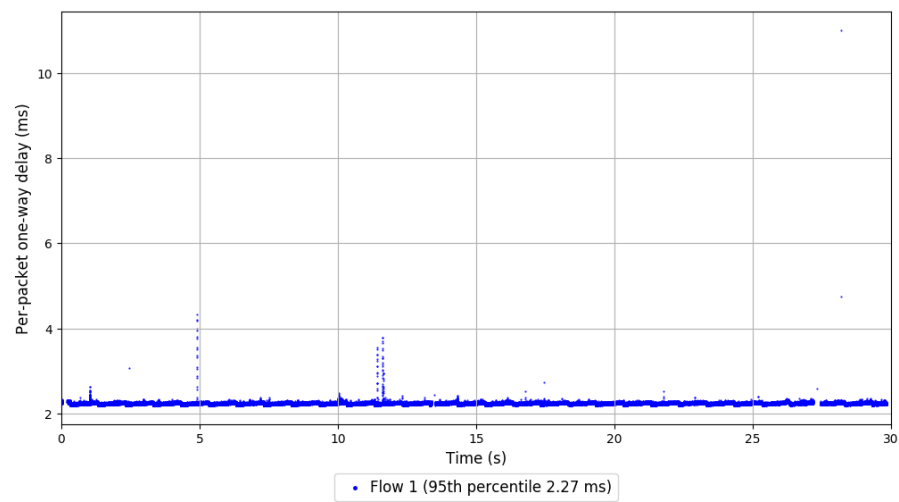
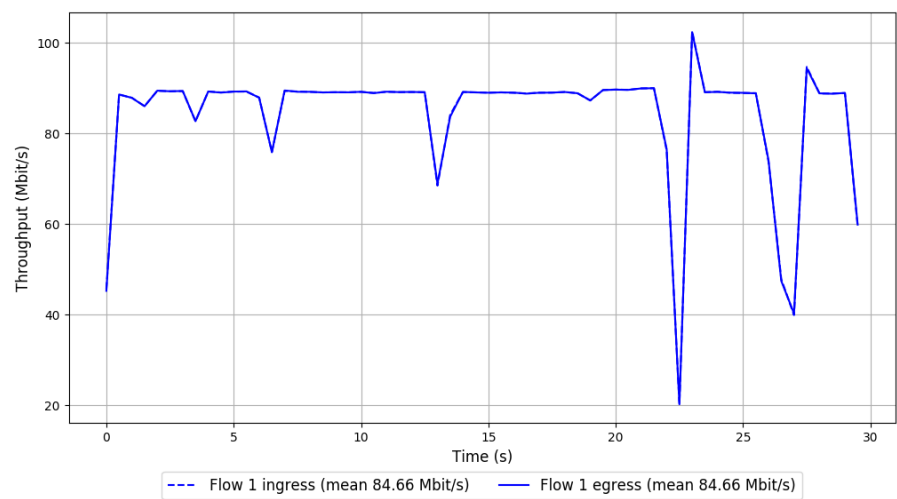
-- Flow 1:

Average throughput: 84.66 Mbit/s

95th percentile per-packet one-way delay: 2.273 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

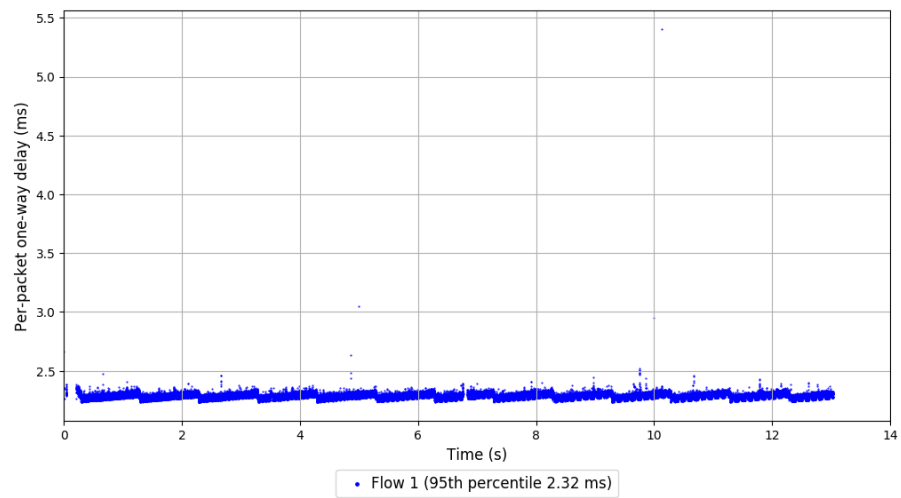
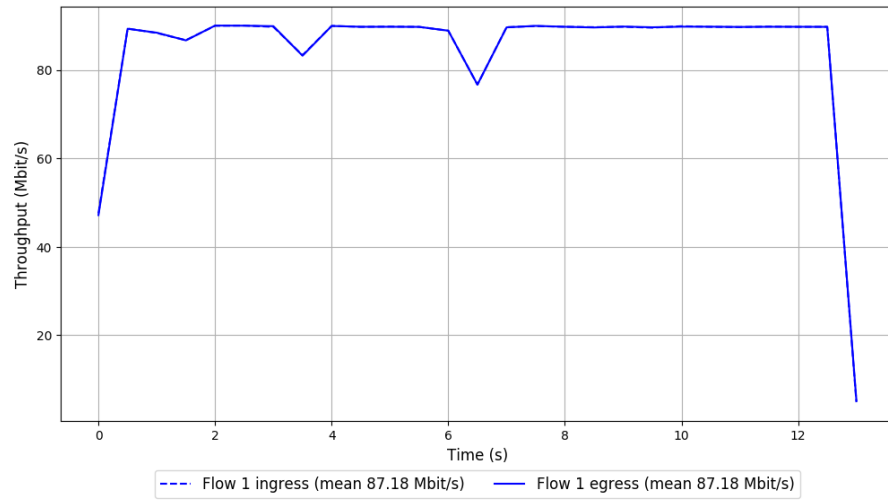
Start at: 2017-09-21 13:03:01

End at: 2017-09-21 13:03:31

Local clock offset: 0.209 ms

Remote clock offset: -0.073 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2017-09-21 13:21:15

End at: 2017-09-21 13:21:45

Local clock offset: 0.305 ms

Remote clock offset: -0.195 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 2.229 ms

Loss rate: 0.00%

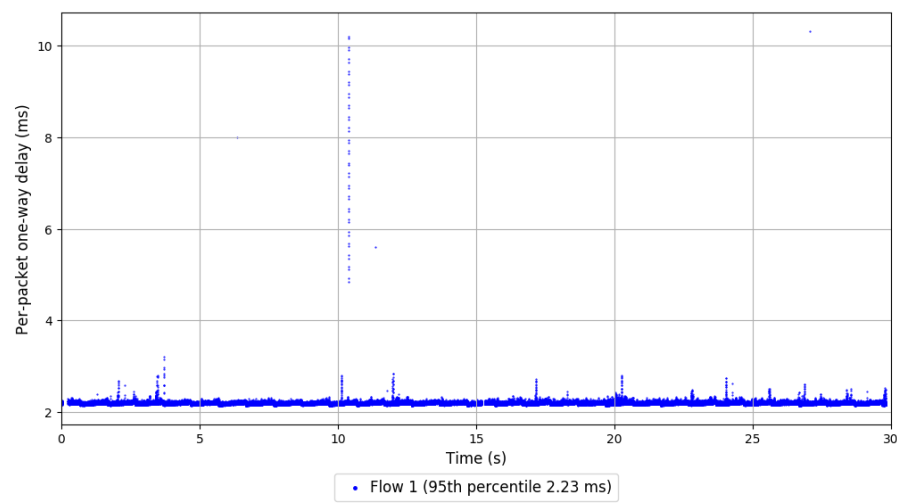
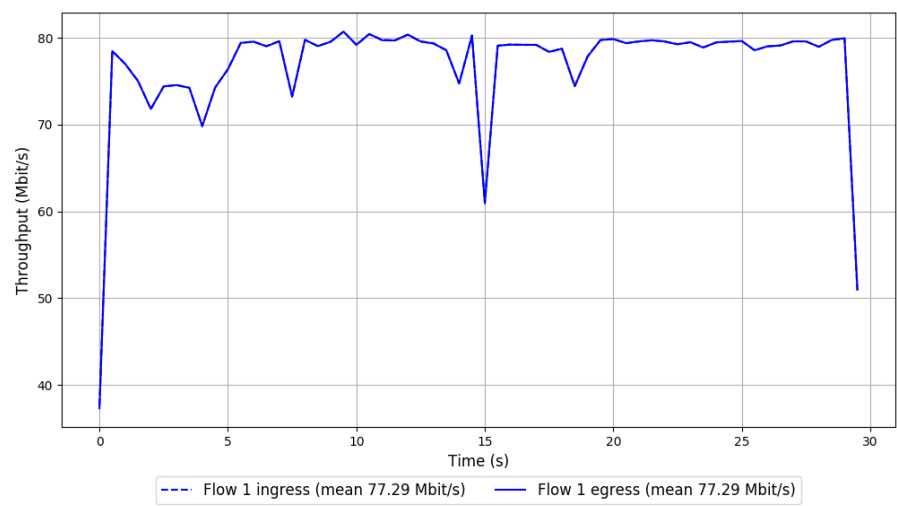
-- Flow 1:

Average throughput: 77.29 Mbit/s

95th percentile per-packet one-way delay: 2.229 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2017-09-21 13:39:35

End at: 2017-09-21 13:40:05

Local clock offset: 0.166 ms

Remote clock offset: -0.296 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 2.309 ms

Loss rate: 0.00%

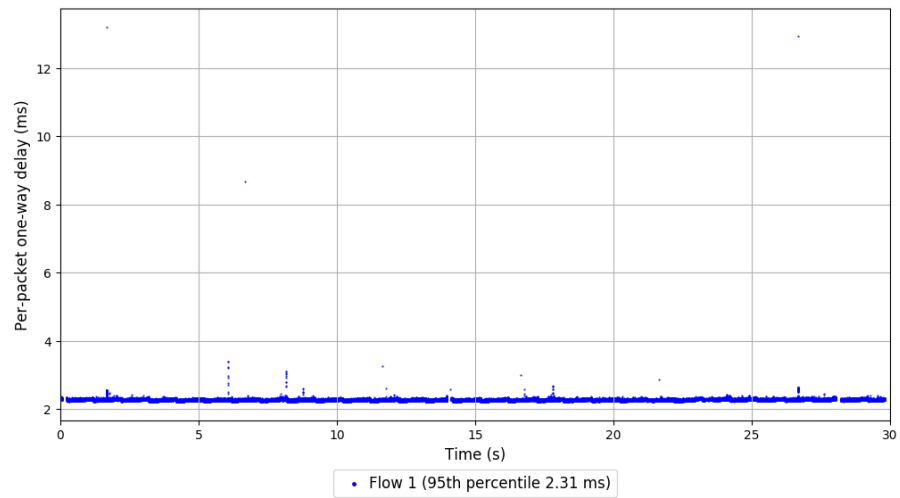
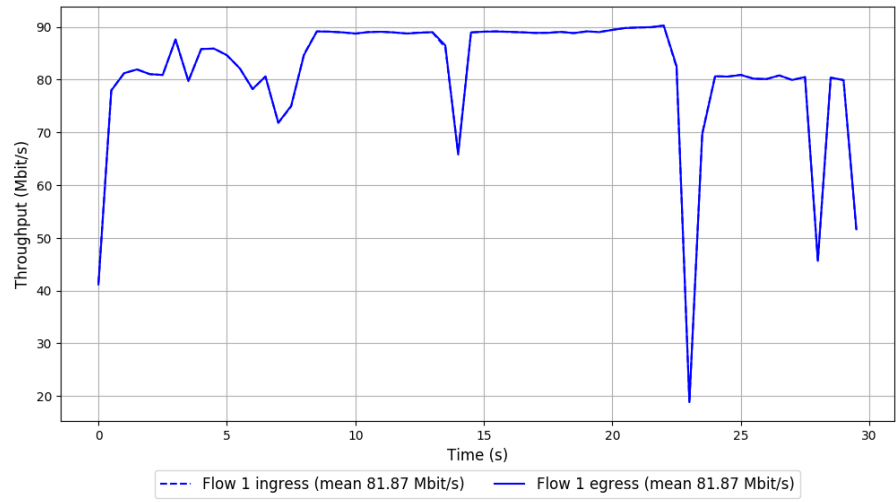
-- Flow 1:

Average throughput: 81.87 Mbit/s

95th percentile per-packet one-way delay: 2.309 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2017-09-21 13:57:55

End at: 2017-09-21 13:58:25

Local clock offset: 0.102 ms

Remote clock offset: -0.475 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 2.205 ms

Loss rate: 0.00%

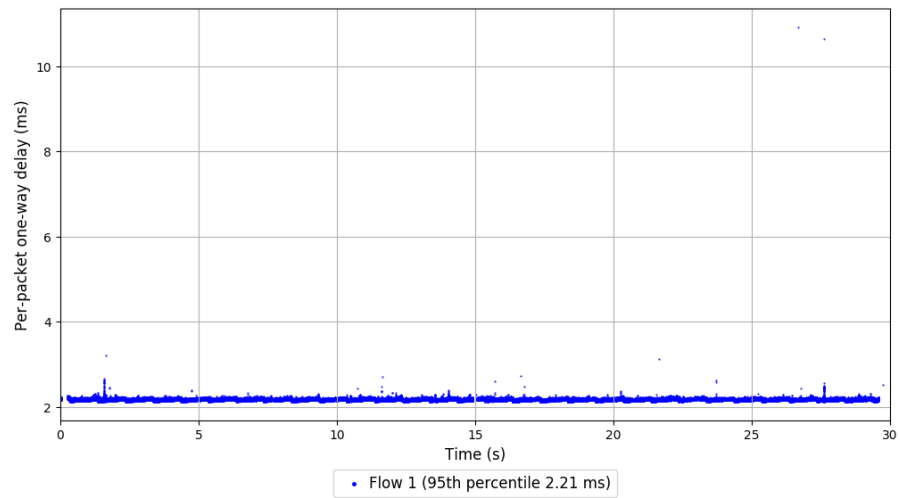
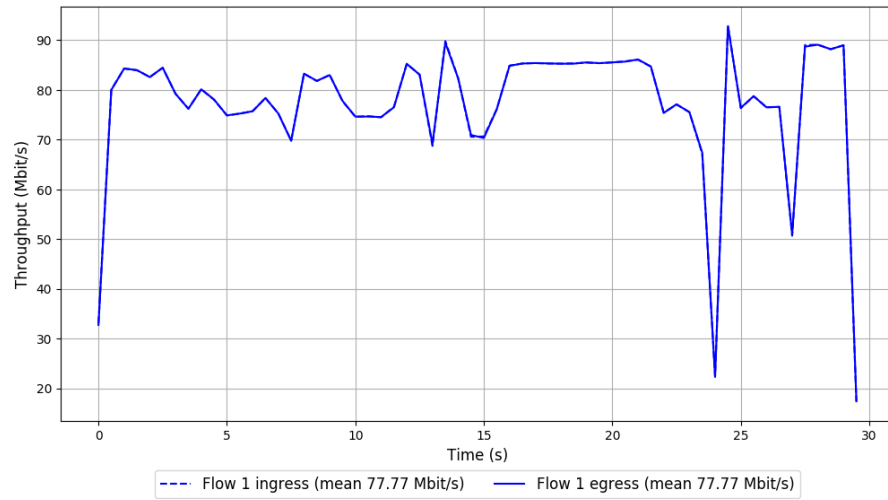
-- Flow 1:

Average throughput: 77.77 Mbit/s

95th percentile per-packet one-way delay: 2.205 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link

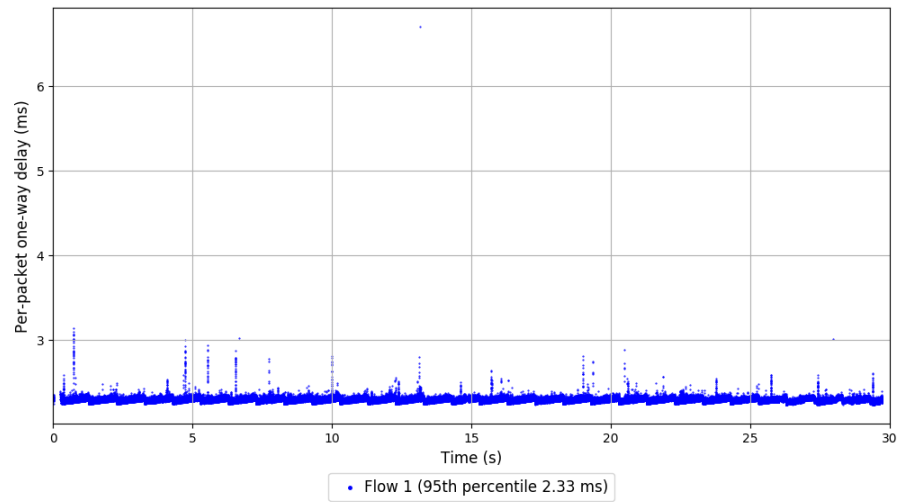
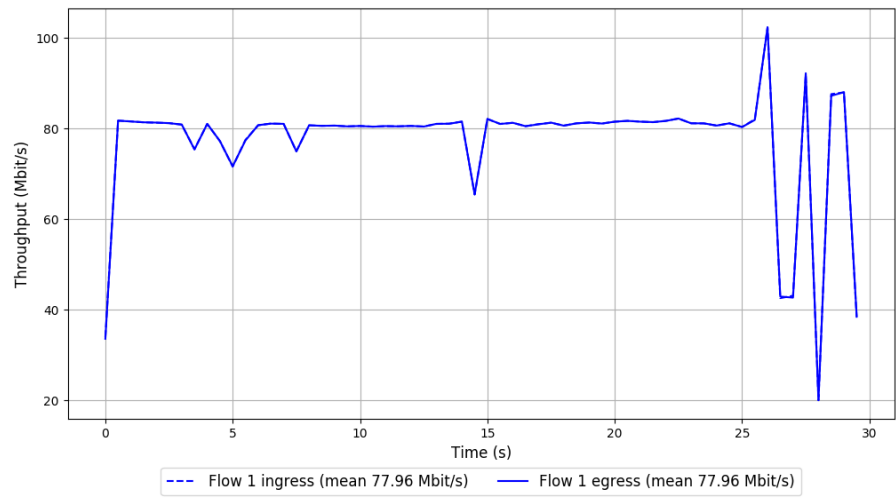


Run 7: Statistics of QUIC Cubic

Start at: 2017-09-21 14:16:07
End at: 2017-09-21 14:16:37
Local clock offset: 0.049 ms
Remote clock offset: -0.402 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.96 Mbit/s
95th percentile per-packet one-way delay: 2.328 ms
Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2017-09-21 14:34:19

End at: 2017-09-21 14:34:49

Local clock offset: 0.02 ms

Remote clock offset: -0.508 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.53 Mbit/s

95th percentile per-packet one-way delay: 2.245 ms

Loss rate: 0.00%

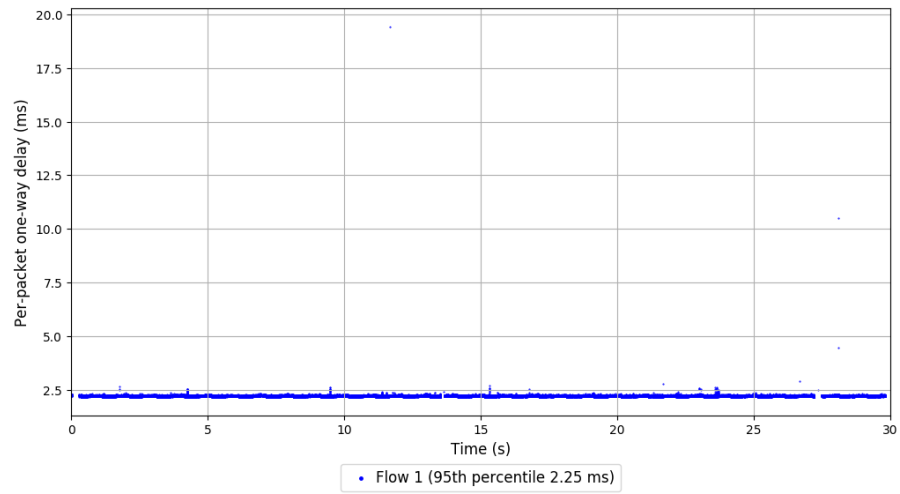
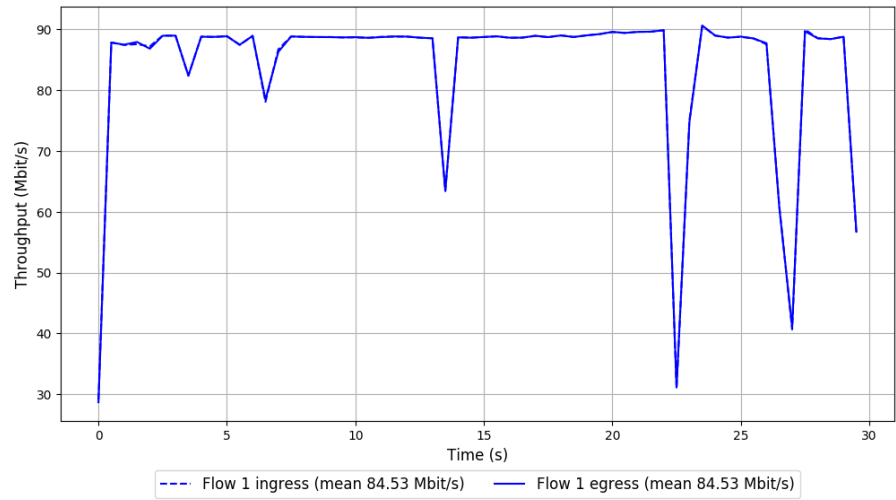
-- Flow 1:

Average throughput: 84.53 Mbit/s

95th percentile per-packet one-way delay: 2.245 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2017-09-21 14:52:07

End at: 2017-09-21 14:52:37

Local clock offset: -0.143 ms

Remote clock offset: -0.572 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 2.322 ms

Loss rate: 0.00%

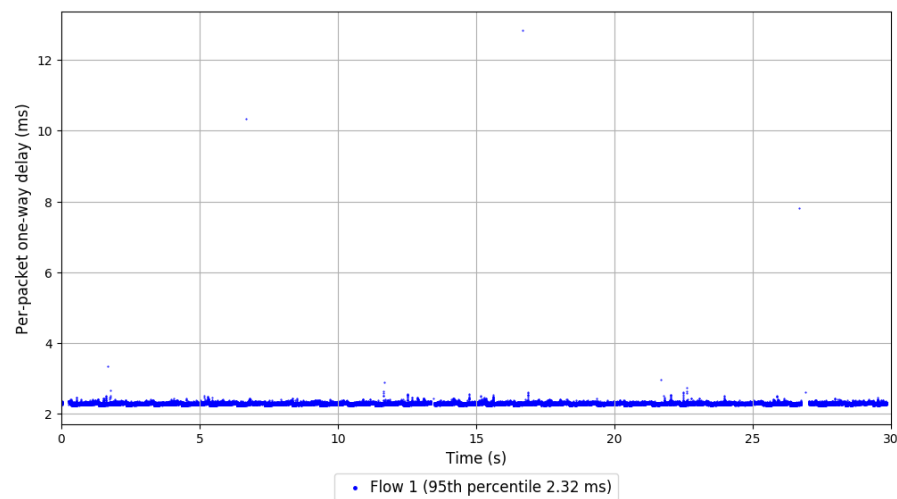
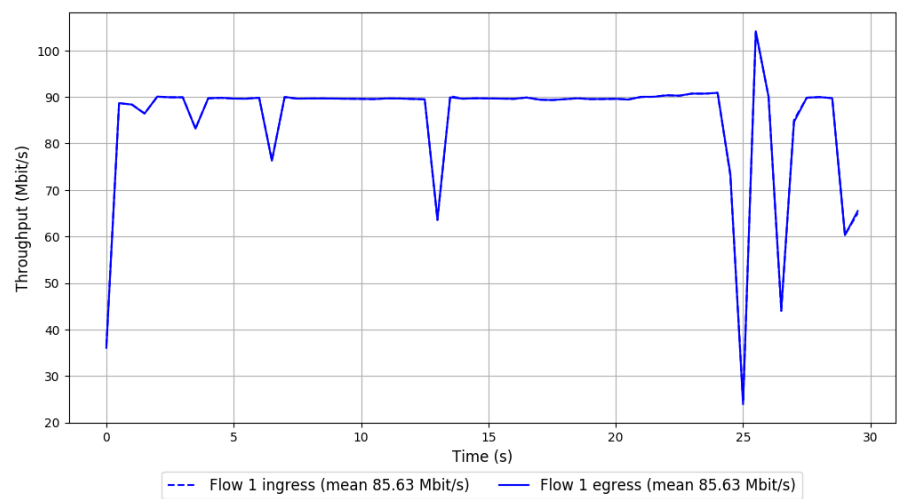
-- Flow 1:

Average throughput: 85.63 Mbit/s

95th percentile per-packet one-way delay: 2.322 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2017-09-21 15:10:23

End at: 2017-09-21 15:10:53

Local clock offset: -0.197 ms

Remote clock offset: -0.537 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 2.300 ms

Loss rate: 0.00%

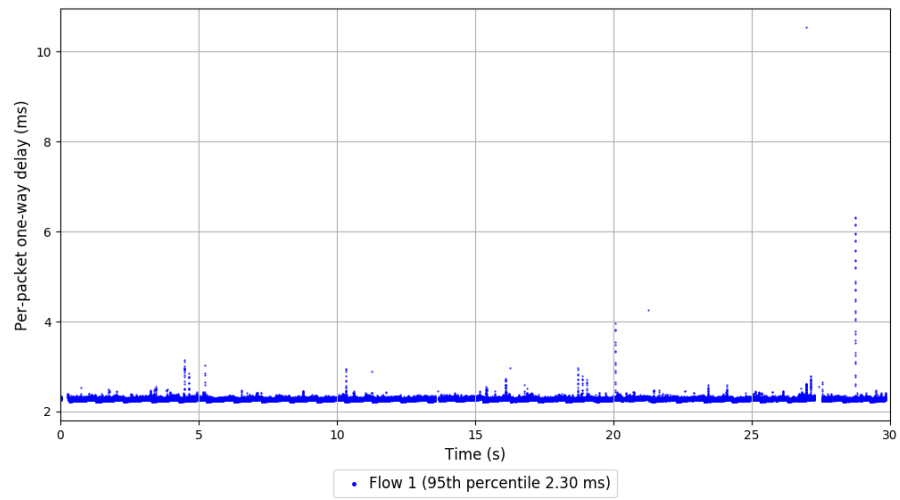
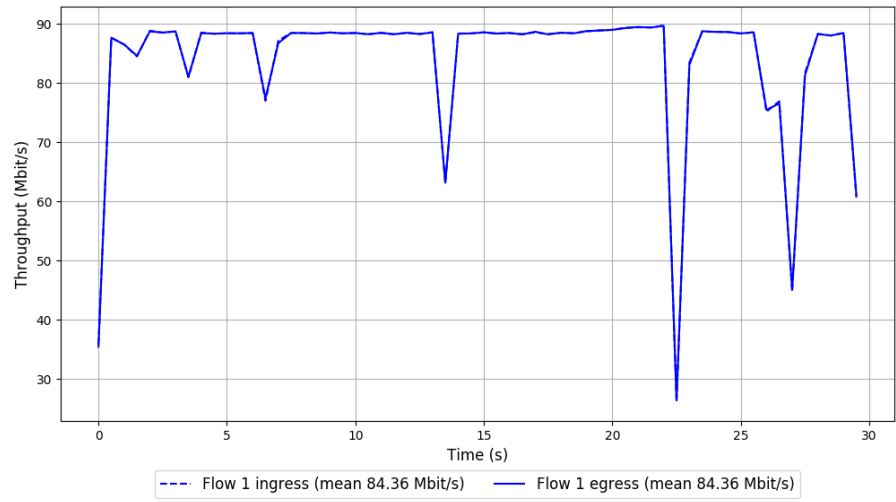
-- Flow 1:

Average throughput: 84.36 Mbit/s

95th percentile per-packet one-way delay: 2.300 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2017-09-21 12:19:18

End at: 2017-09-21 12:19:48

Local clock offset: 0.26 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.330 ms

Loss rate: 0.00%

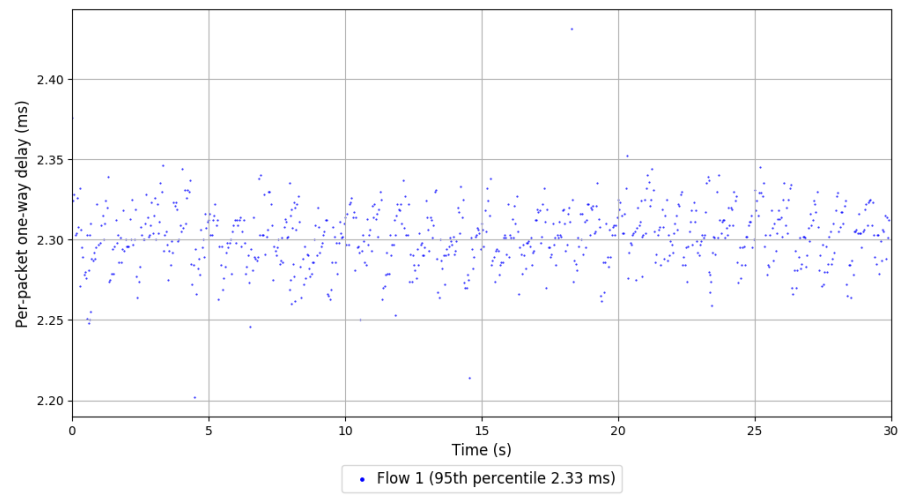
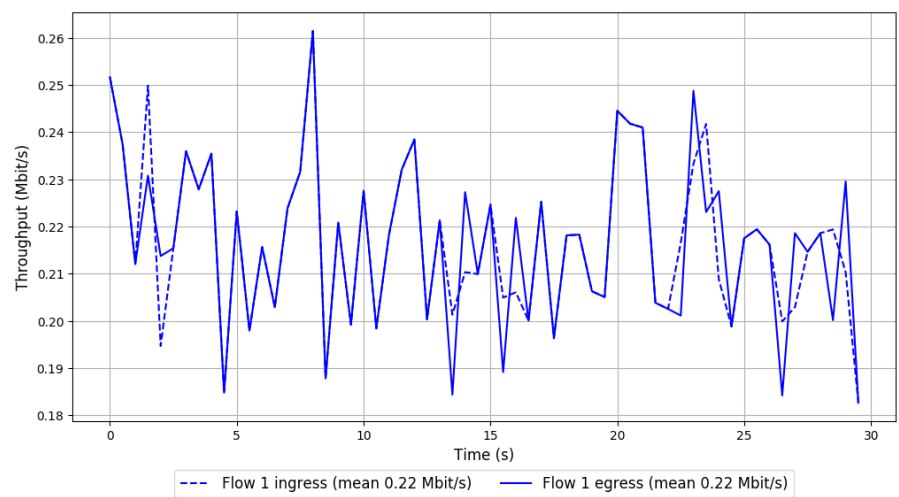
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.330 ms

Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2017-09-21 12:37:25

End at: 2017-09-21 12:37:56

Local clock offset: 0.349 ms

Remote clock offset: 0.181 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.295 ms

Loss rate: 0.00%

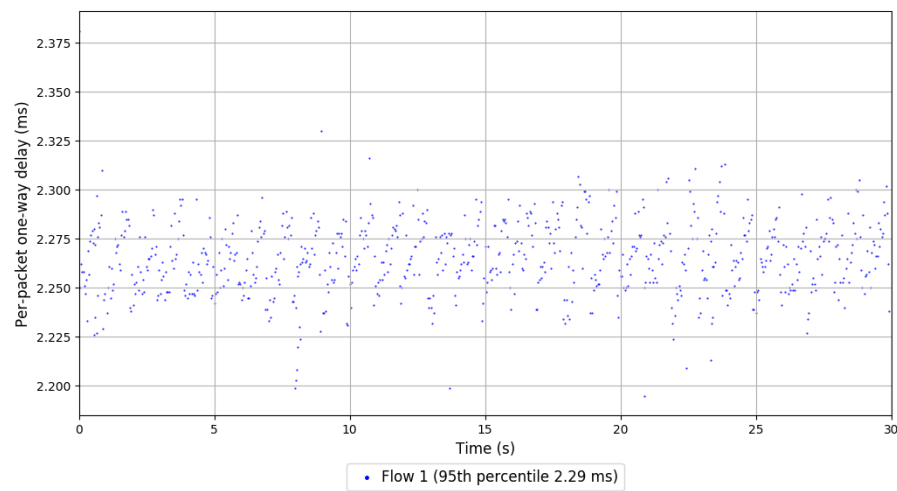
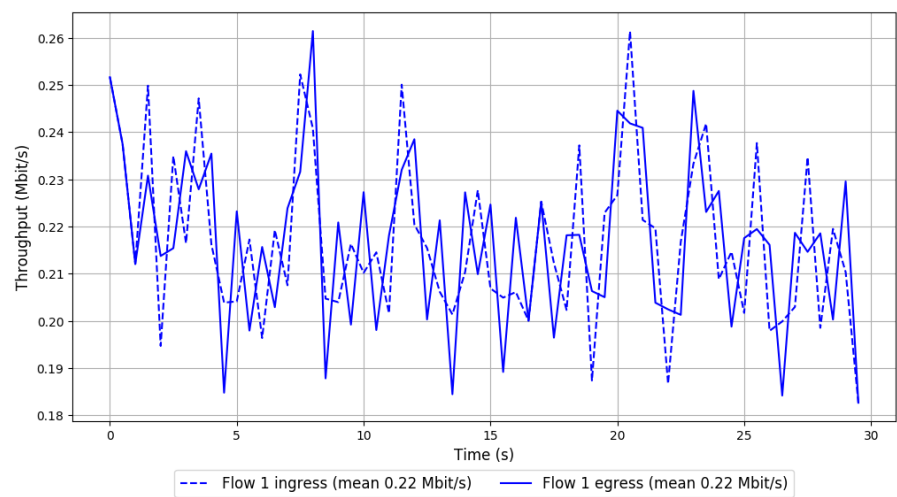
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.295 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2017-09-21 12:55:05

End at: 2017-09-21 12:55:35

Local clock offset: 0.267 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.00%

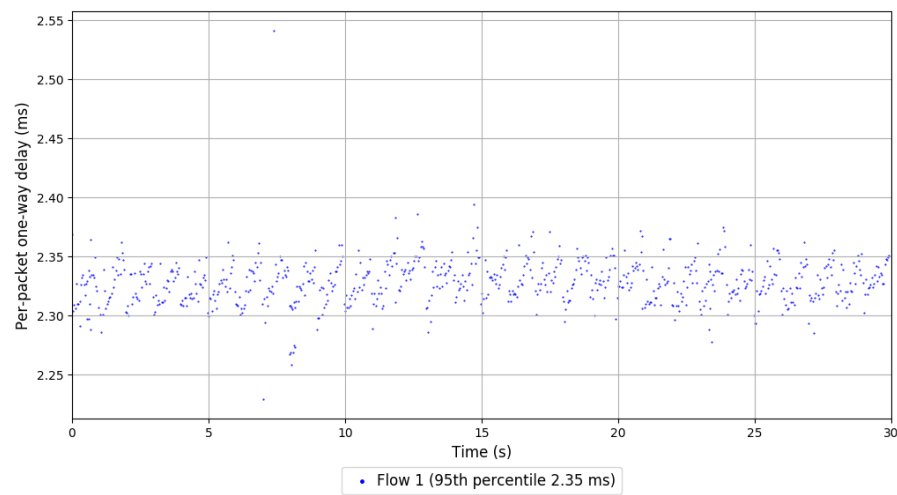
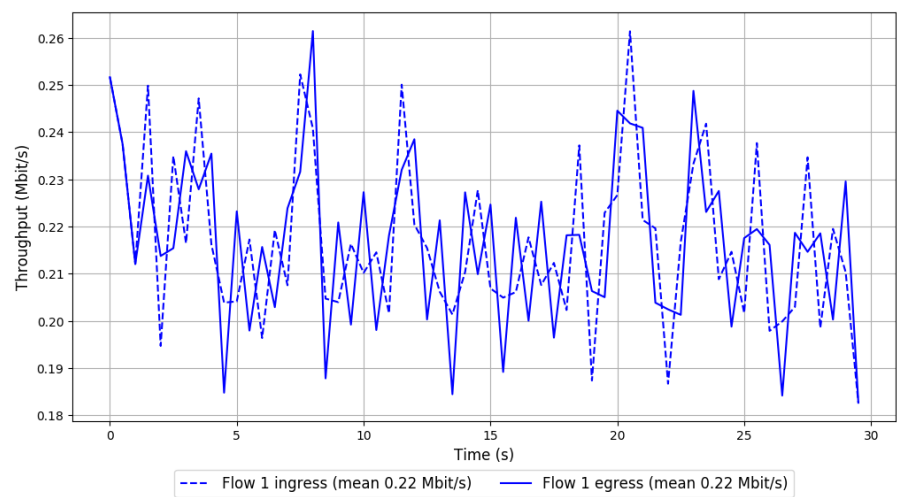
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.355 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2017-09-21 13:13:23

End at: 2017-09-21 13:13:53

Local clock offset: 0.238 ms

Remote clock offset: -0.17 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.00%

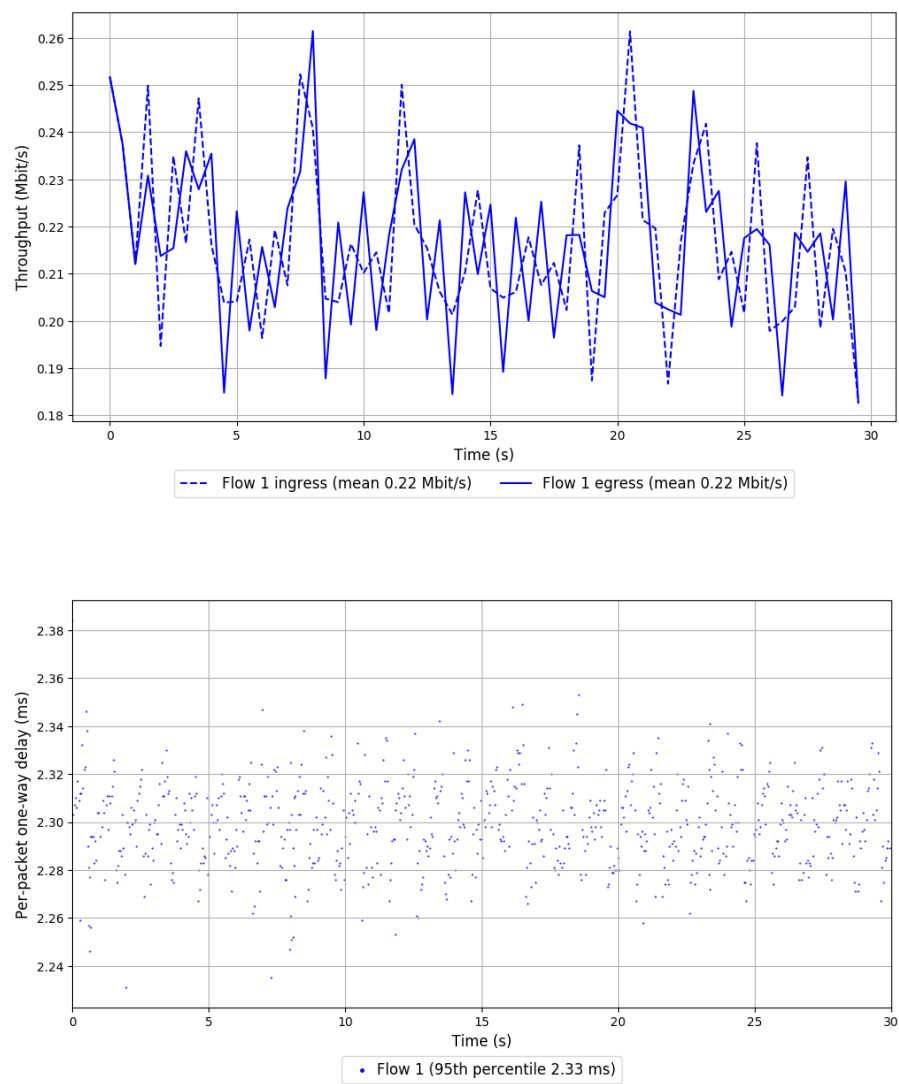
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.329 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

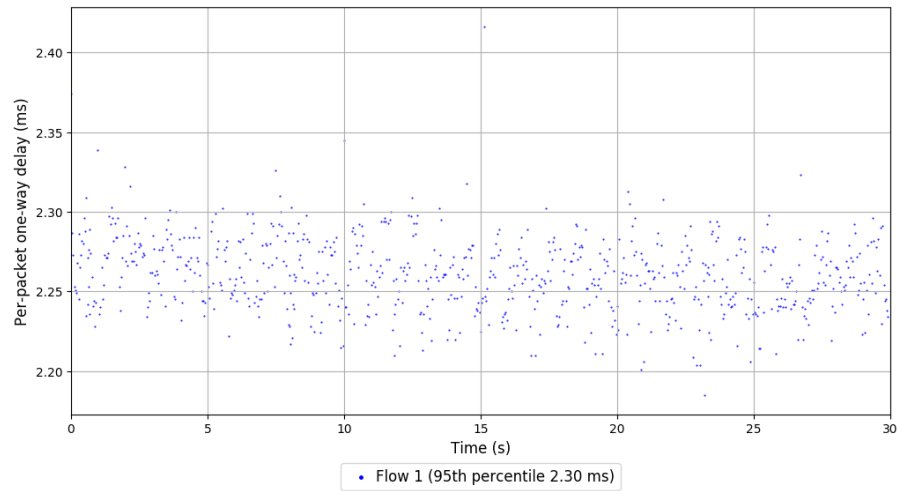
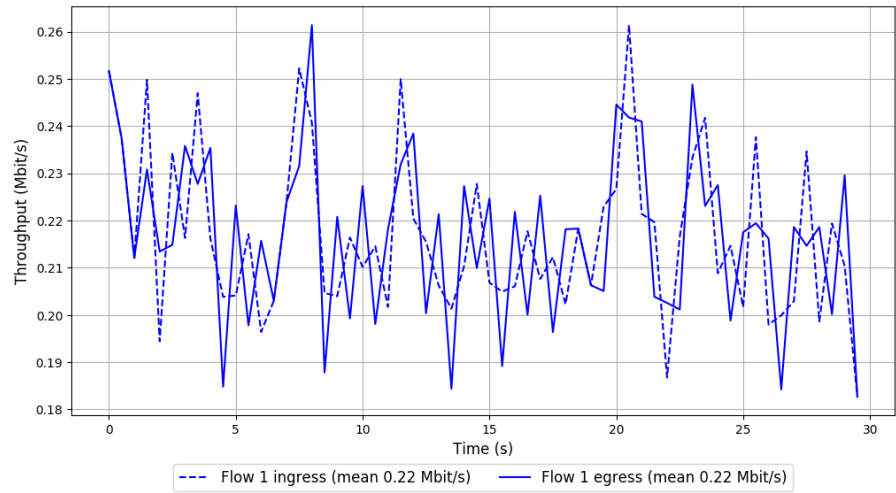


Run 5: Statistics of SCReAM

Start at: 2017-09-21 13:31:42
End at: 2017-09-21 13:32:12
Local clock offset: 0.258 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.296 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

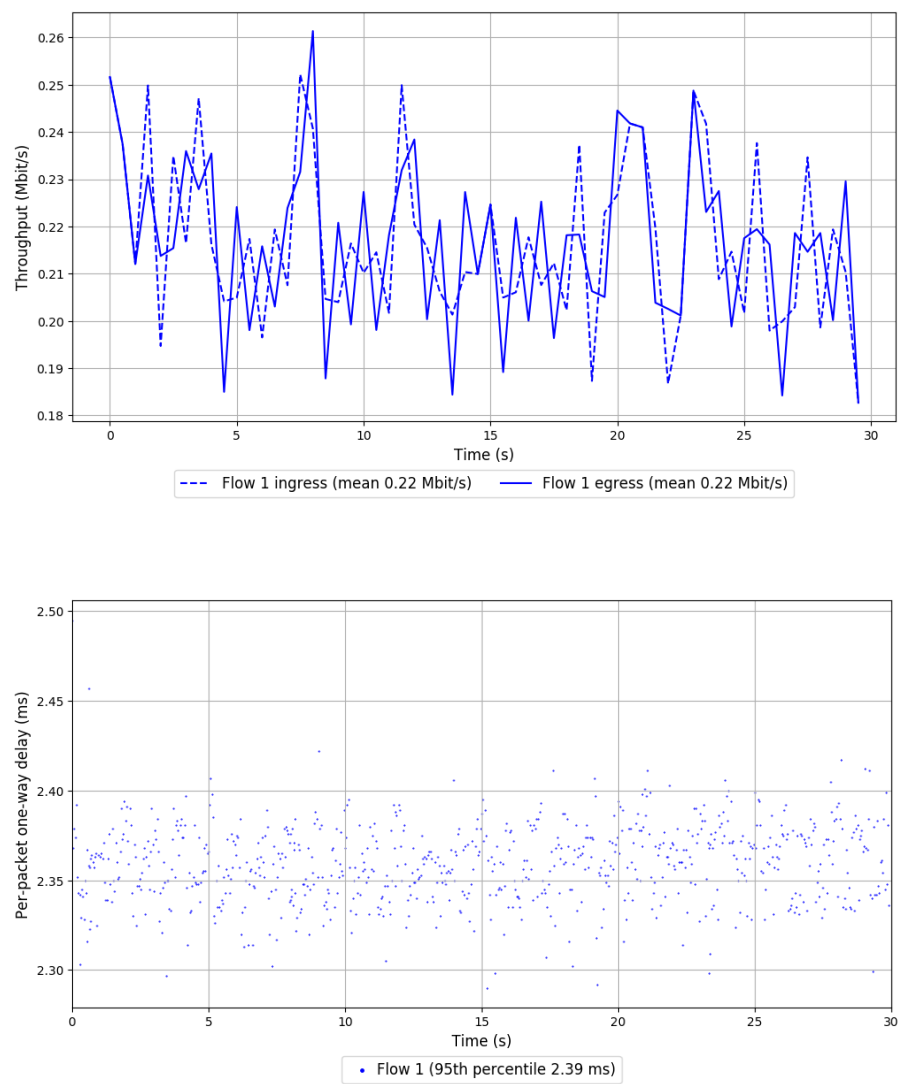


Run 6: Statistics of SCReAM

Start at: 2017-09-21 13:49:59
End at: 2017-09-21 13:50:29
Local clock offset: 0.066 ms
Remote clock offset: -0.381 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.392 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.392 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

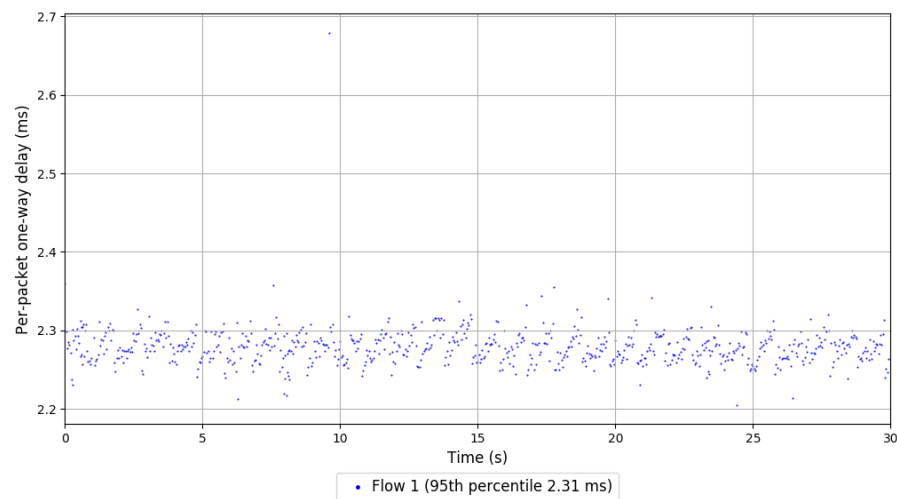
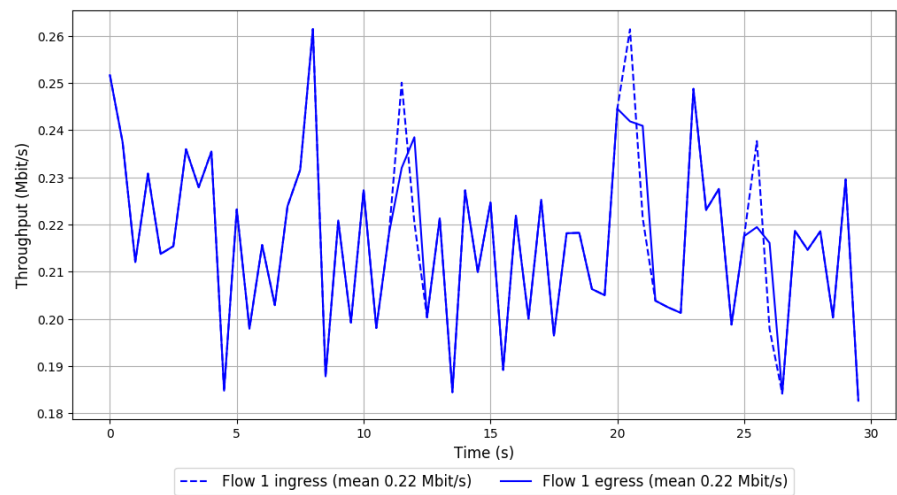


Run 7: Statistics of SCReAM

Start at: 2017-09-21 14:08:14
End at: 2017-09-21 14:08:44
Local clock offset: 0.054 ms
Remote clock offset: -0.498 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.311 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.311 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

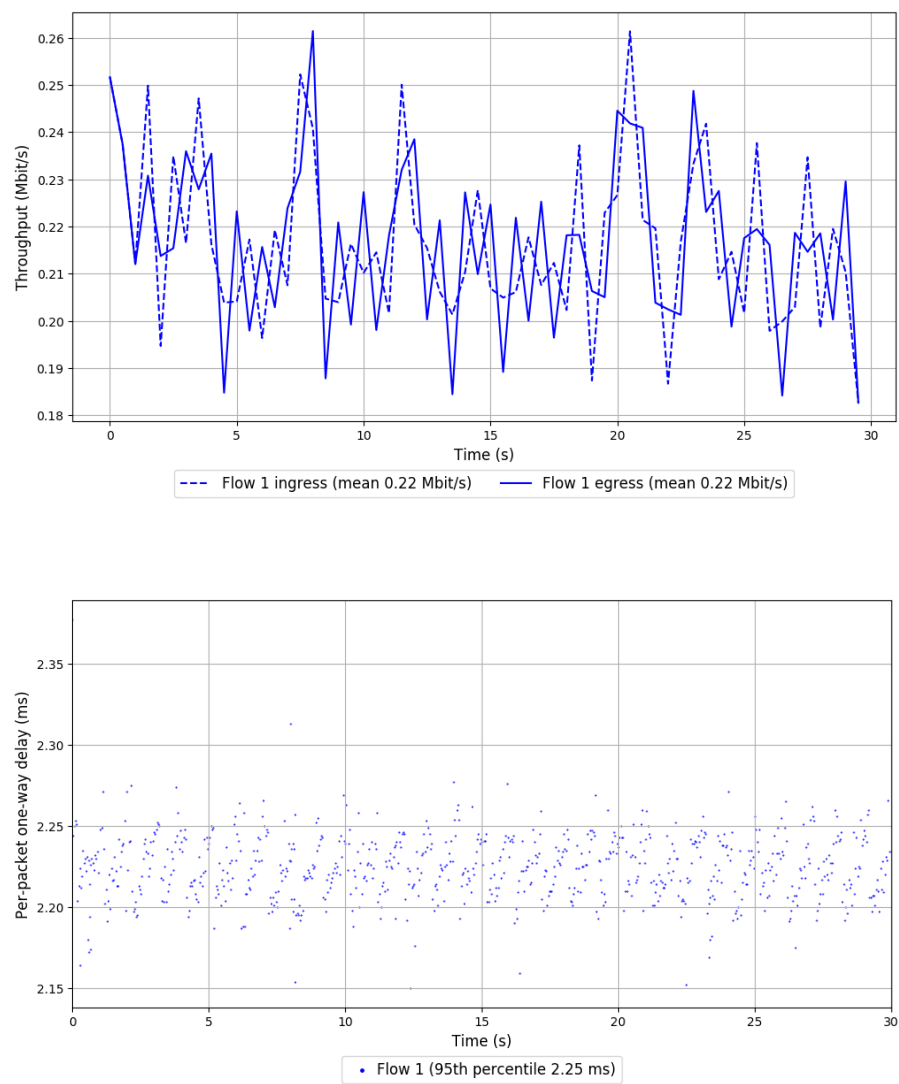


Run 8: Statistics of SCReAM

Start at: 2017-09-21 14:26:25
End at: 2017-09-21 14:26:55
Local clock offset: 0.056 ms
Remote clock offset: -0.541 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.255 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

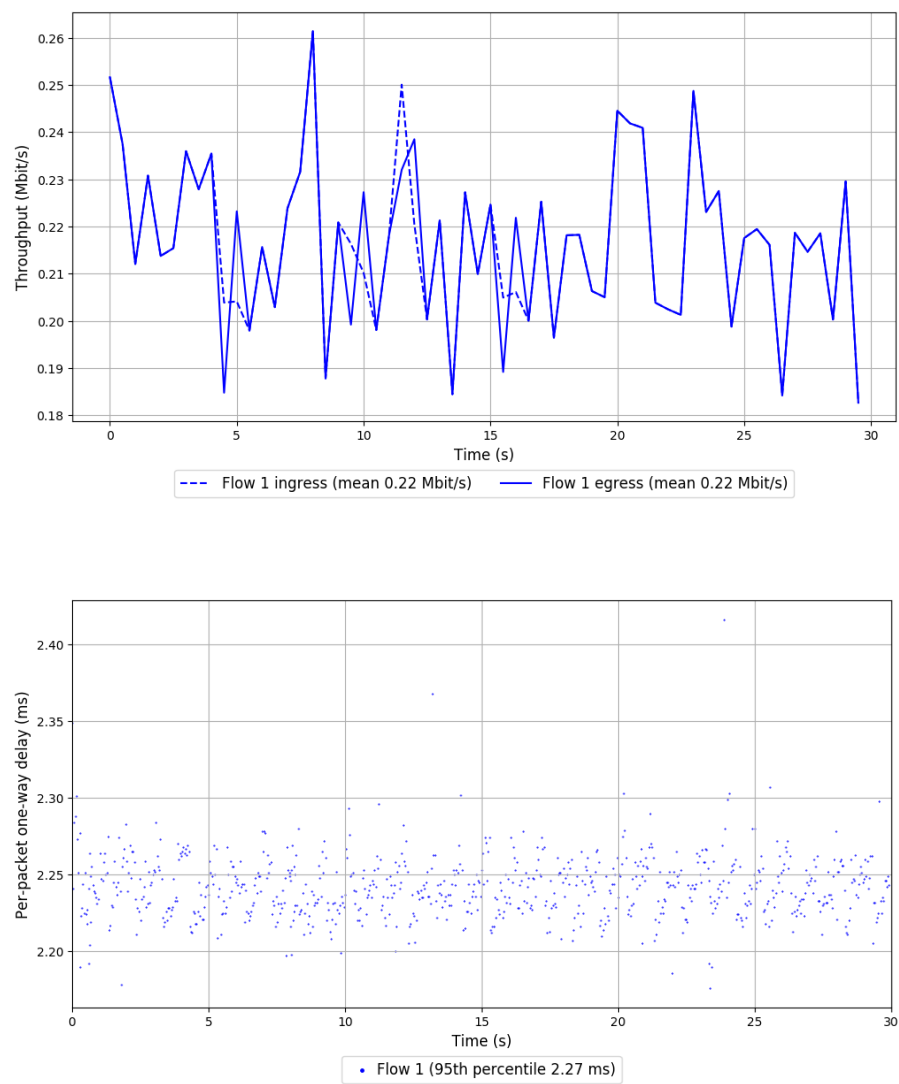


Run 9: Statistics of SCReAM

Start at: 2017-09-21 14:44:12
End at: 2017-09-21 14:44:42
Local clock offset: -0.035 ms
Remote clock offset: -0.604 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 2.273 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2017-09-21 15:02:23

End at: 2017-09-21 15:02:53

Local clock offset: -0.158 ms

Remote clock offset: -0.635 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.00%

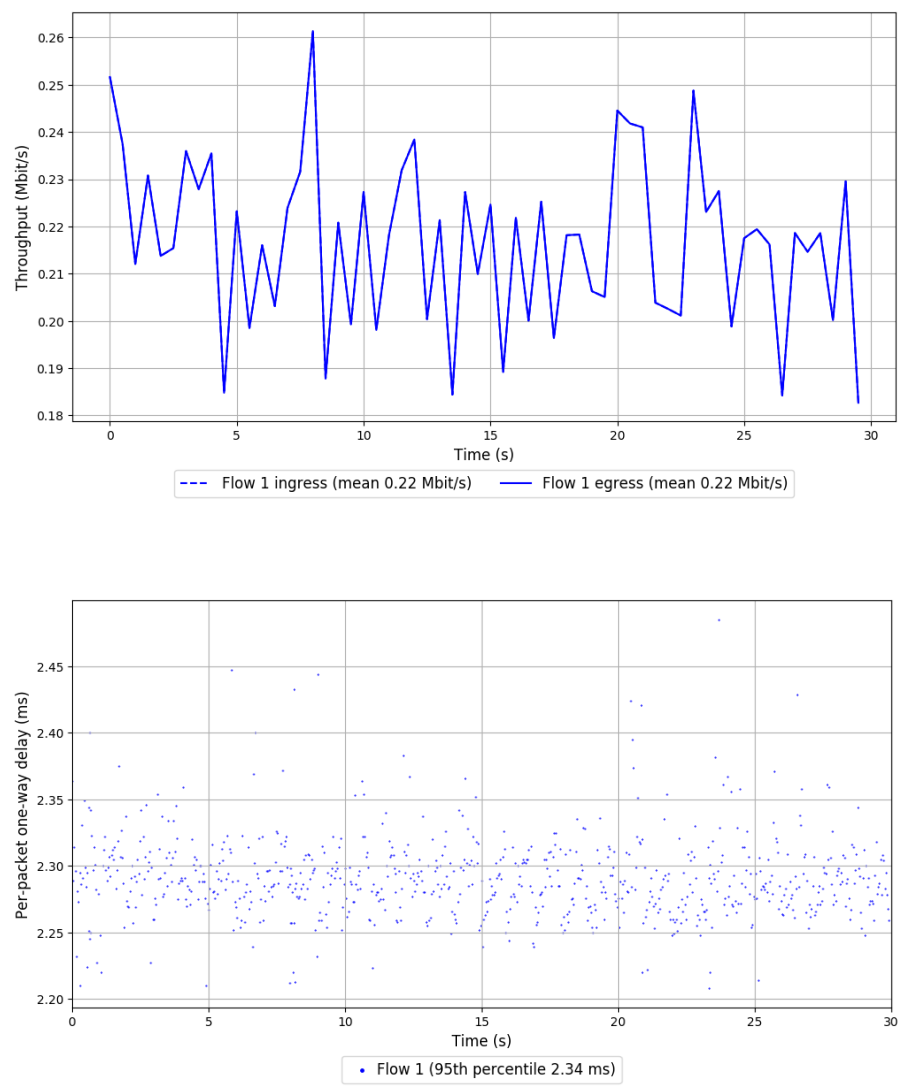
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 2.344 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of WebRTC media

Start at: 2017-09-21 12:32:26

End at: 2017-09-21 12:32:56

Local clock offset: 0.223 ms

Remote clock offset: 0.221 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.716 ms

Loss rate: 0.00%

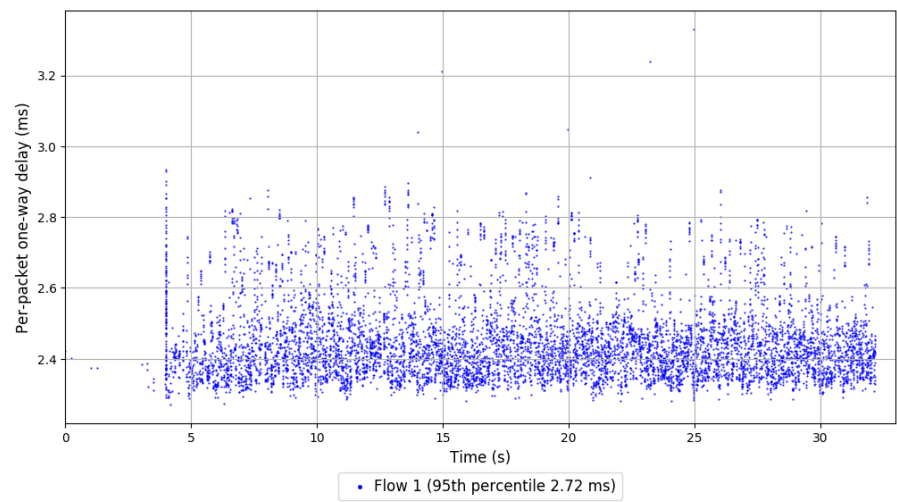
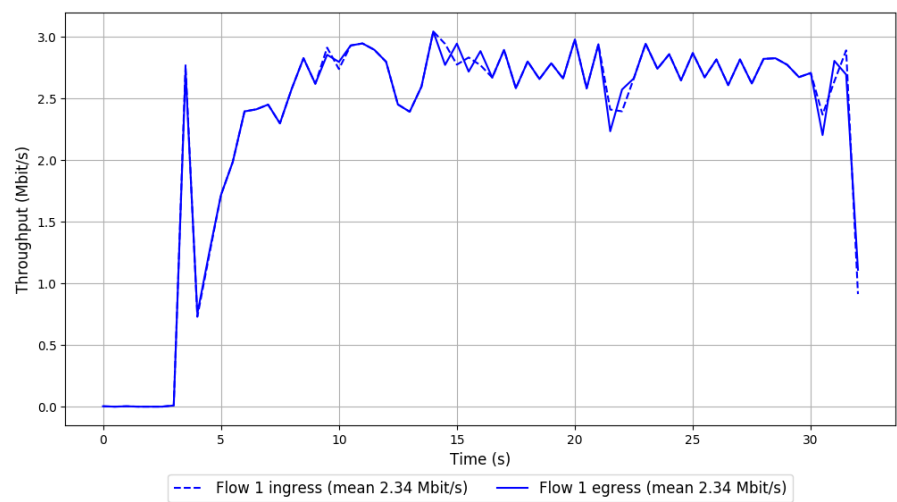
-- Flow 1:

Average throughput: 2.34 Mbit/s

95th percentile per-packet one-way delay: 2.716 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2017-09-21 12:50:06

End at: 2017-09-21 12:50:36

Local clock offset: 0.226 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 2.695 ms

Loss rate: 0.00%

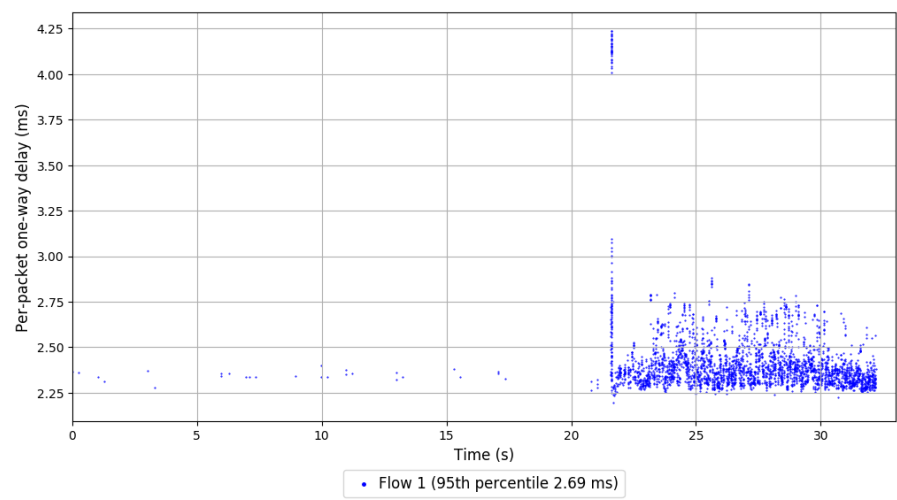
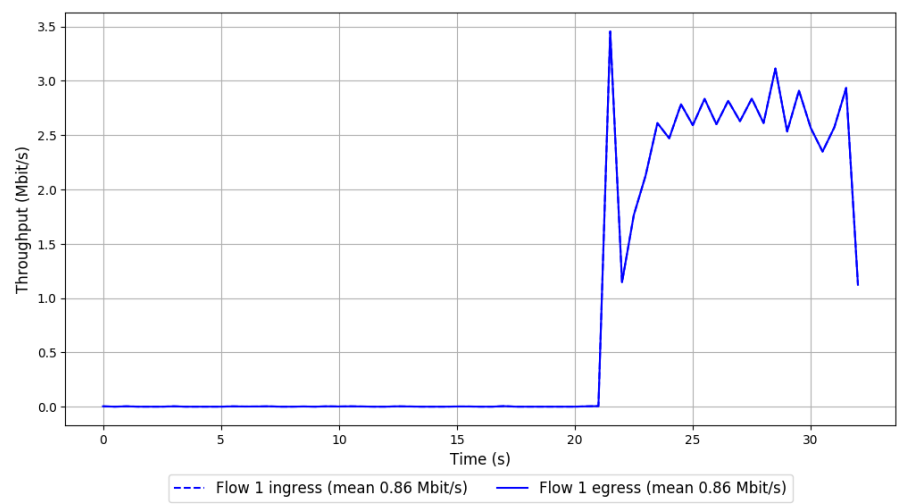
-- Flow 1:

Average throughput: 0.86 Mbit/s

95th percentile per-packet one-way delay: 2.695 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

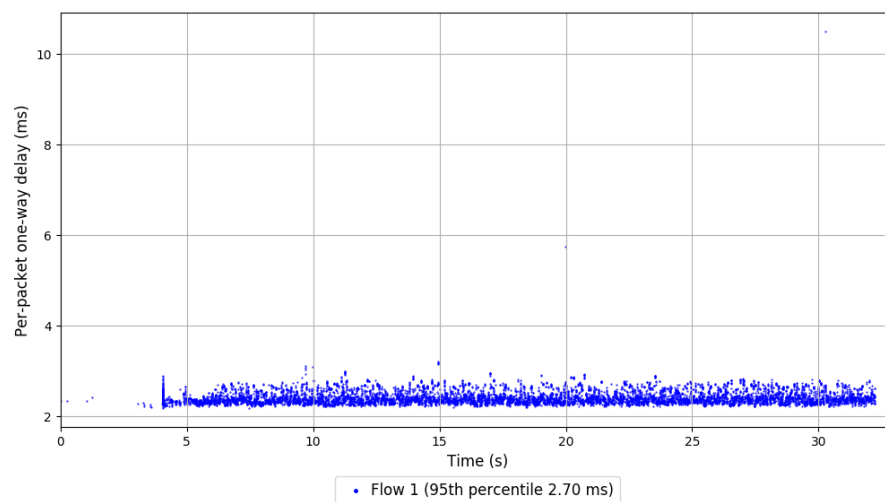
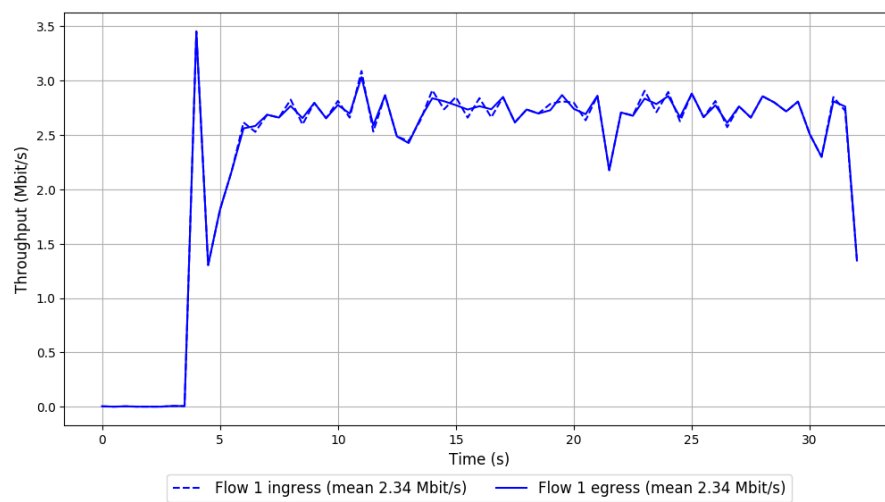


Run 3: Statistics of WebRTC media

Start at: 2017-09-21 13:08:22
End at: 2017-09-21 13:08:52
Local clock offset: 0.236 ms
Remote clock offset: -0.116 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.696 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 2.696 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

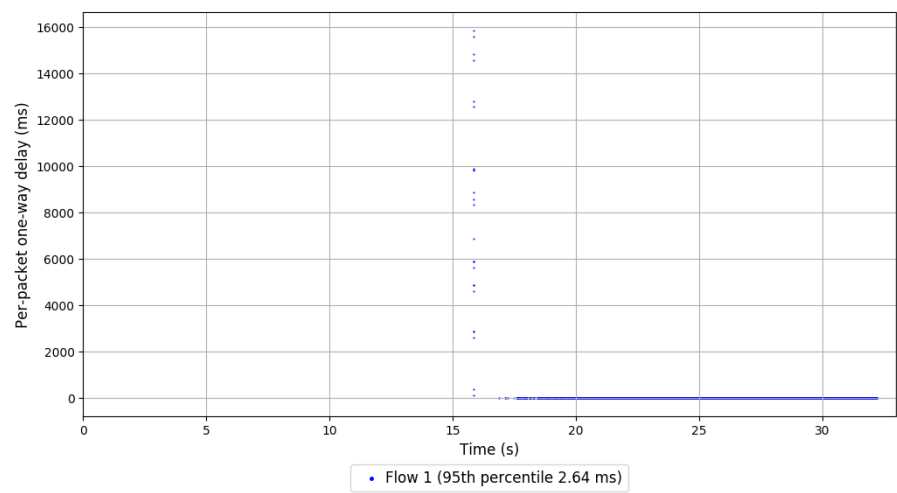
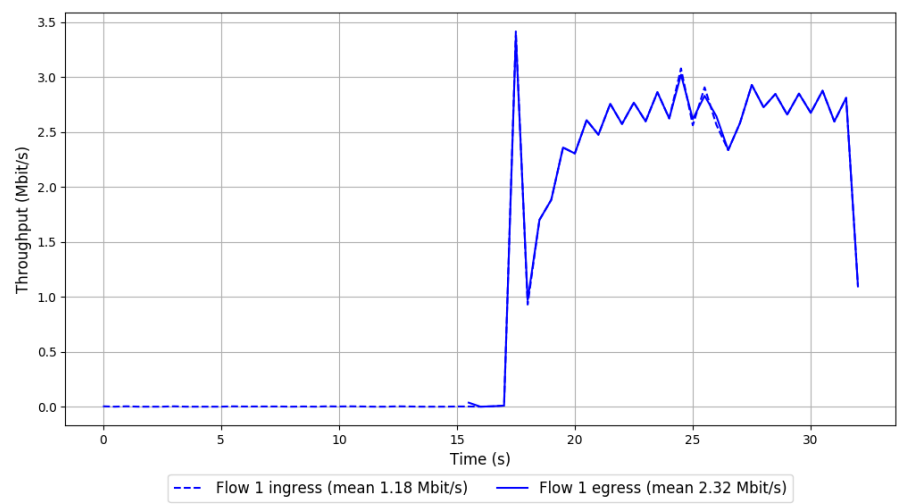
Start at: 2017-09-21 13:26:40

End at: 2017-09-21 13:27:10

Local clock offset: 0.266 ms

Remote clock offset: -0.204 ms

Run 4: Report of WebRTC media — Data Link

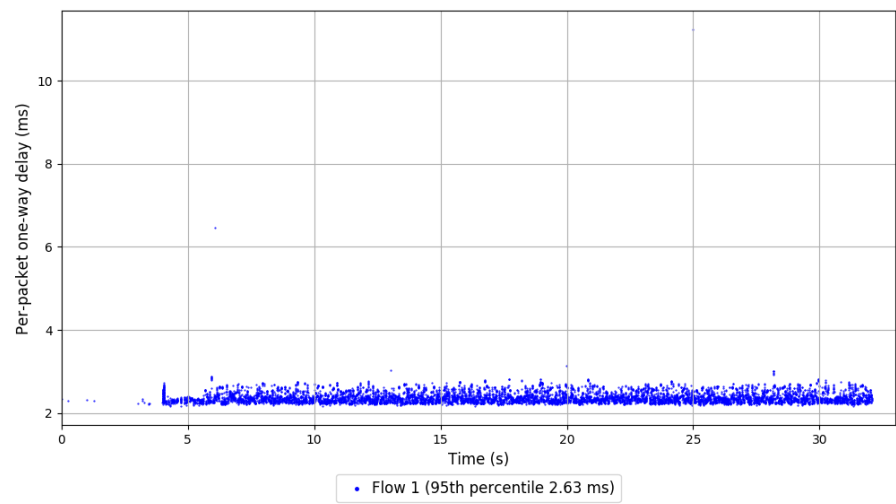
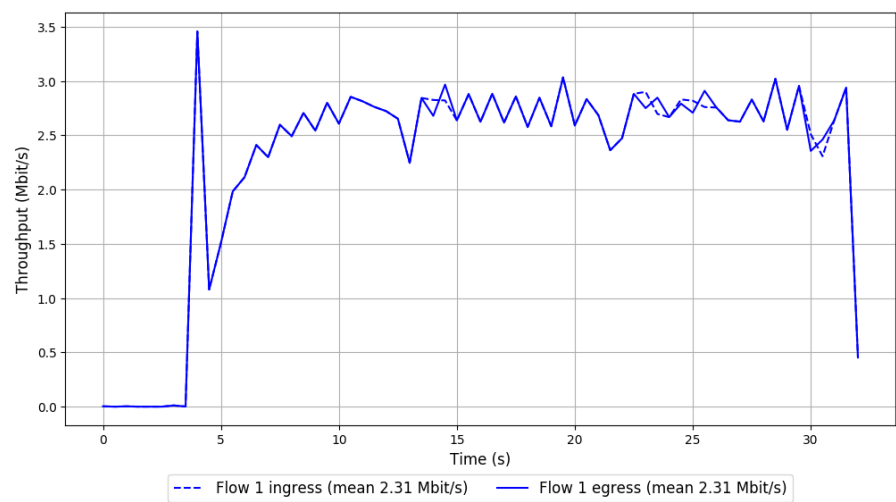


Run 5: Statistics of WebRTC media

Start at: 2017-09-21 13:44:59
End at: 2017-09-21 13:45:29
Local clock offset: 0.059 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 2.626 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

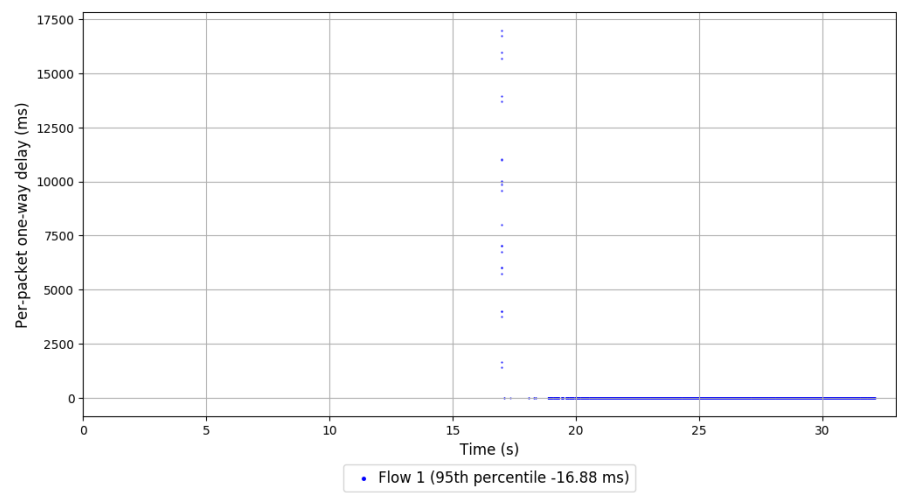
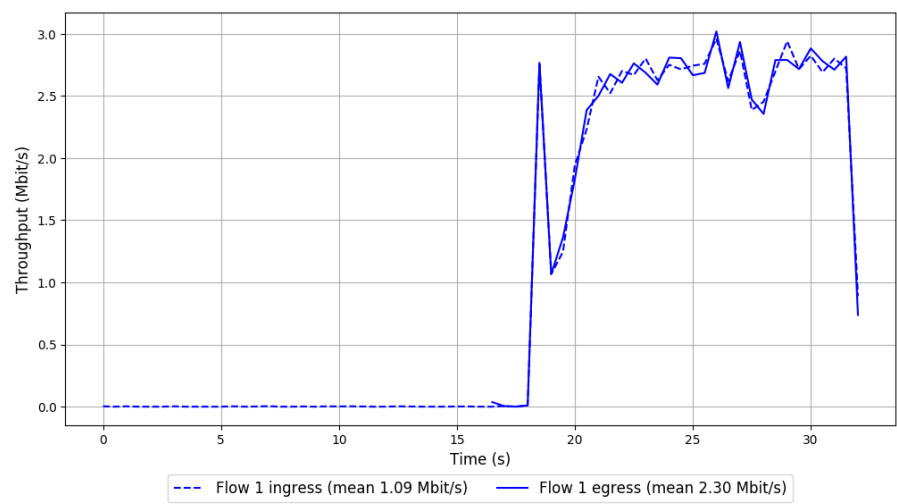
Start at: 2017-09-21 14:03:16

End at: 2017-09-21 14:03:46

Local clock offset: 0.045 ms

Remote clock offset: -19.996 ms

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

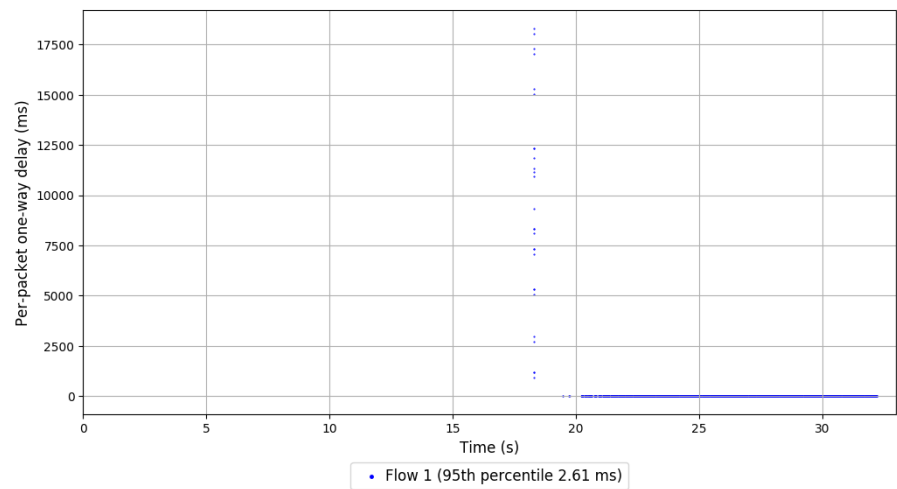
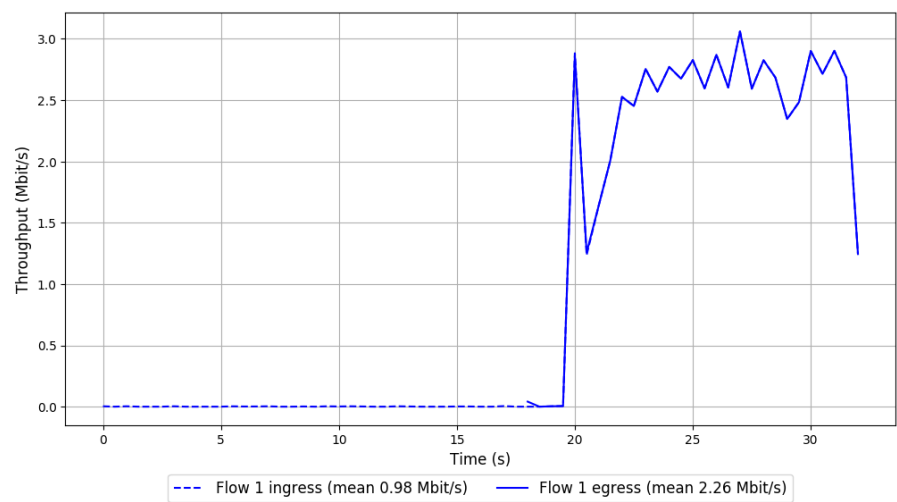
Start at: 2017-09-21 14:21:28

End at: 2017-09-21 14:21:58

Local clock offset: 0.099 ms

Remote clock offset: -0.478 ms

Run 7: Report of WebRTC media — Data Link

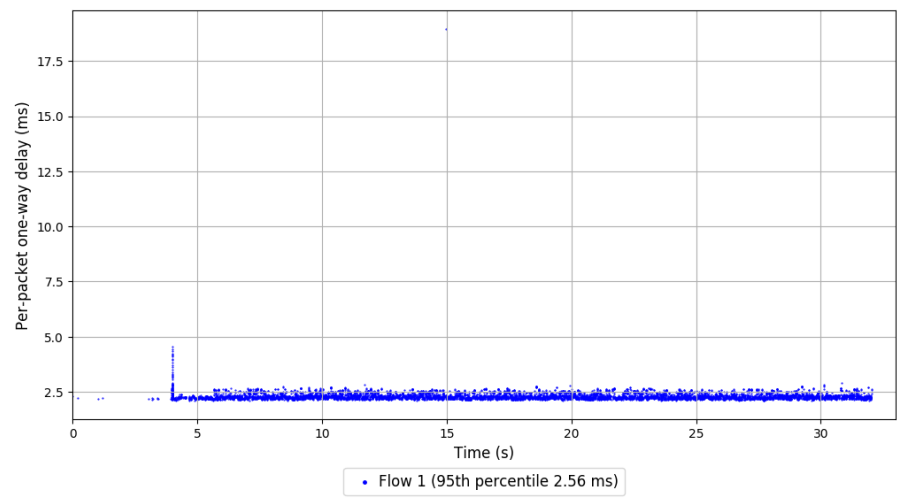
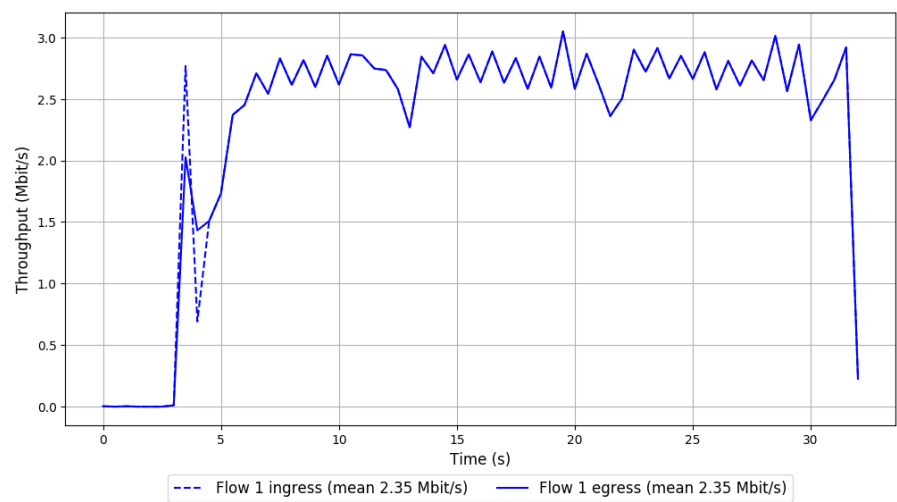


Run 8: Statistics of WebRTC media

Start at: 2017-09-21 14:39:15
End at: 2017-09-21 14:39:45
Local clock offset: -0.017 ms
Remote clock offset: -0.606 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 2.563 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

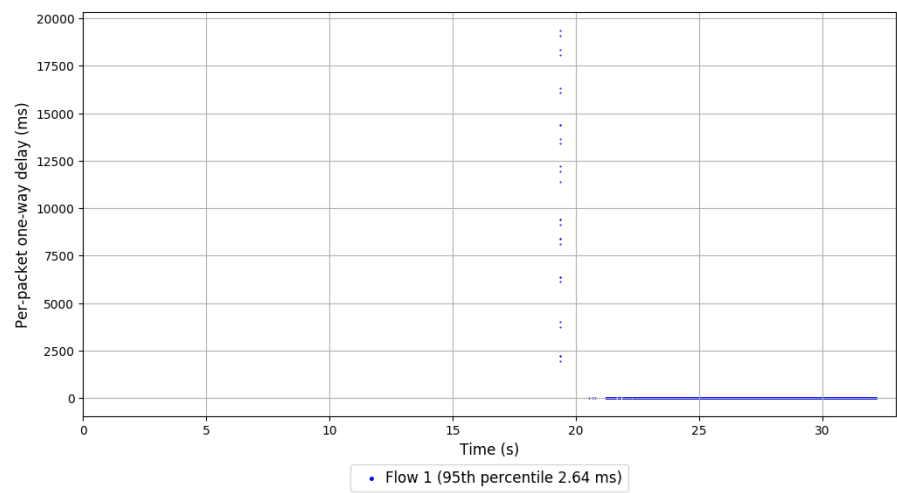
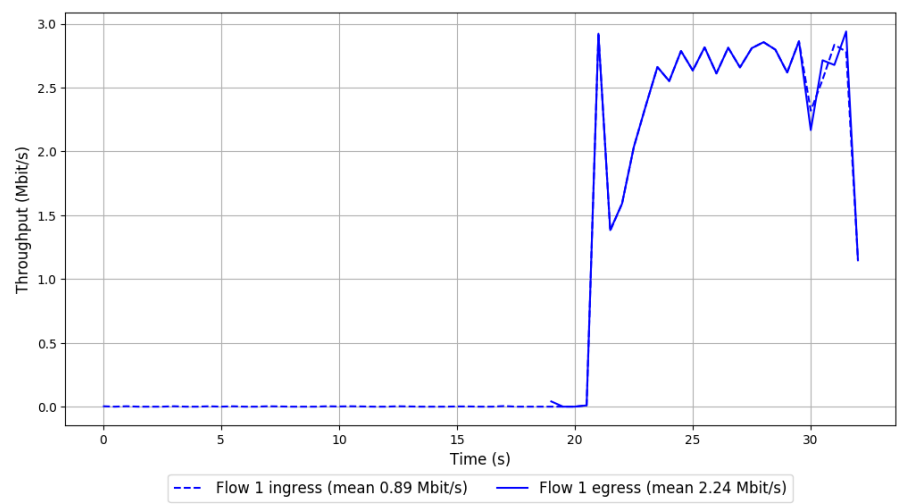
Start at: 2017-09-21 14:57:26

End at: 2017-09-21 14:57:56

Local clock offset: -0.083 ms

Remote clock offset: -0.57 ms

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

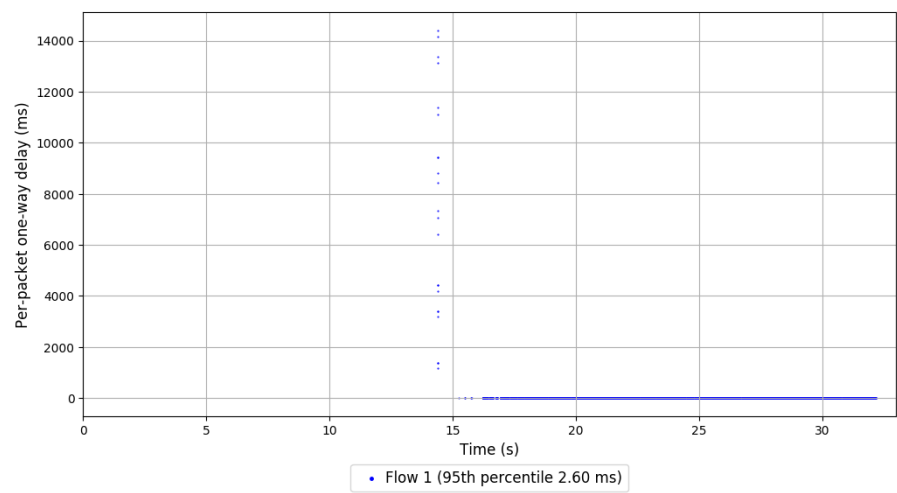
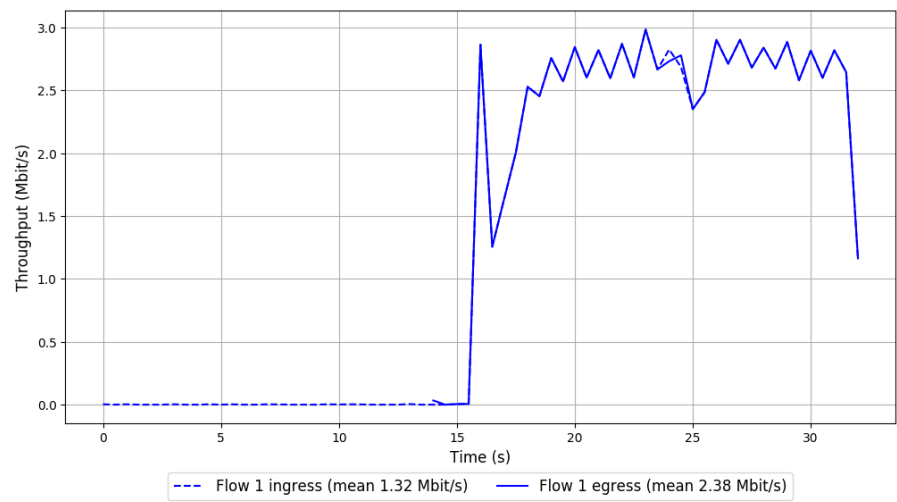
Start at: 2017-09-21 15:15:48

End at: 2017-09-21 15:16:19

Local clock offset: -0.128 ms

Remote clock offset: -0.473 ms

Run 10: Report of WebRTC media — Data Link



Run 1: Statistics of Sprout

Start at: 2017-09-21 12:34:44

End at: 2017-09-21 12:35:14

Local clock offset: 0.296 ms

Remote clock offset: 0.227 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 3.243 ms

Loss rate: 0.00%

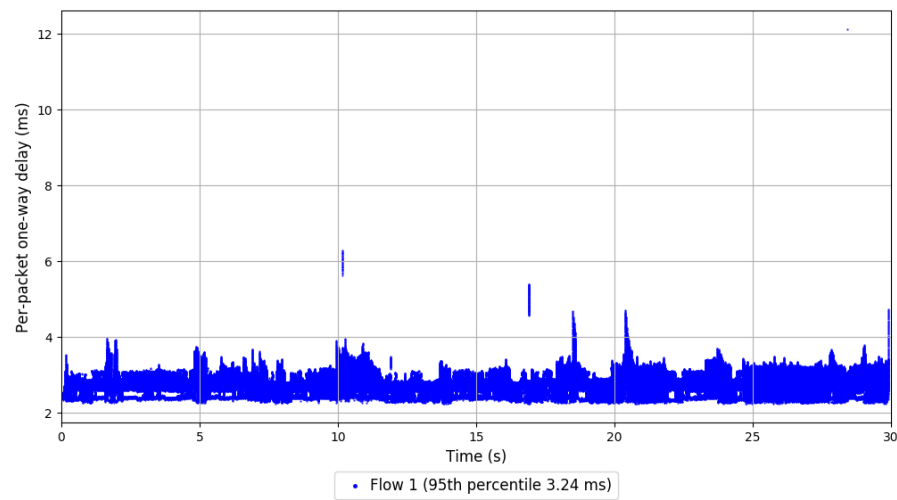
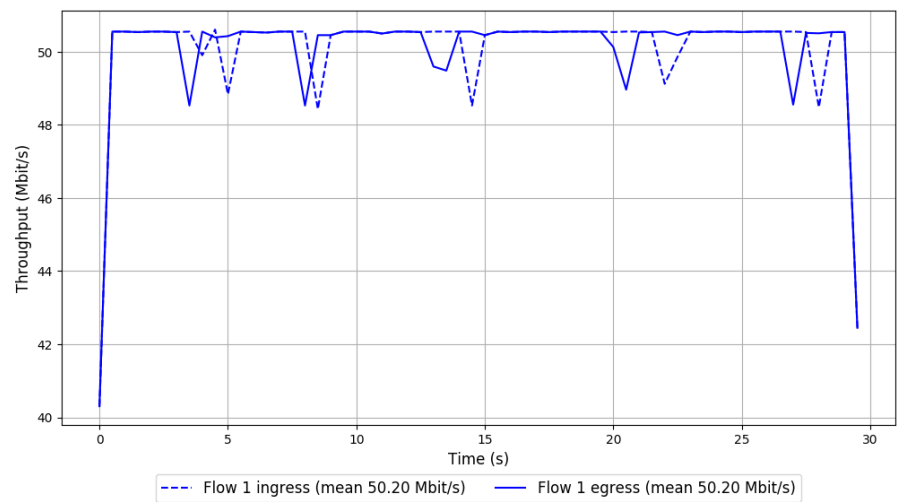
-- Flow 1:

Average throughput: 50.20 Mbit/s

95th percentile per-packet one-way delay: 3.243 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2017-09-21 12:52:24

End at: 2017-09-21 12:52:54

Local clock offset: 0.311 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 2.953 ms

Loss rate: 0.00%

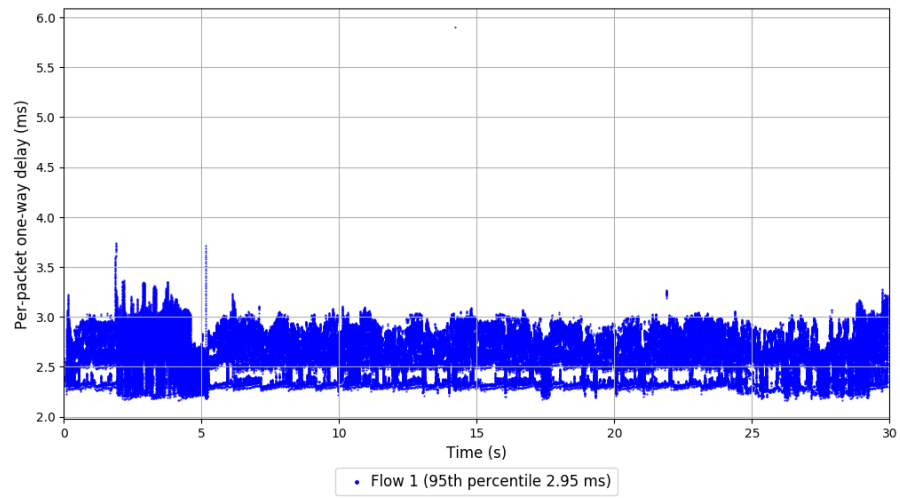
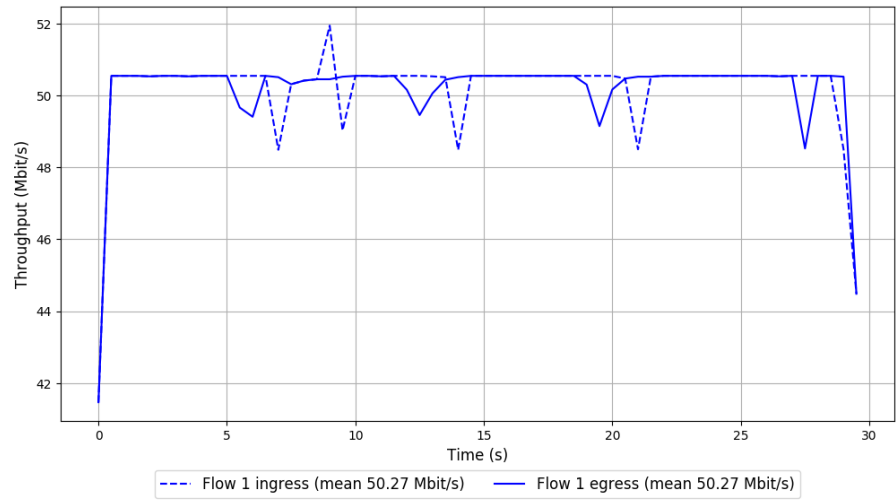
-- Flow 1:

Average throughput: 50.27 Mbit/s

95th percentile per-packet one-way delay: 2.953 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

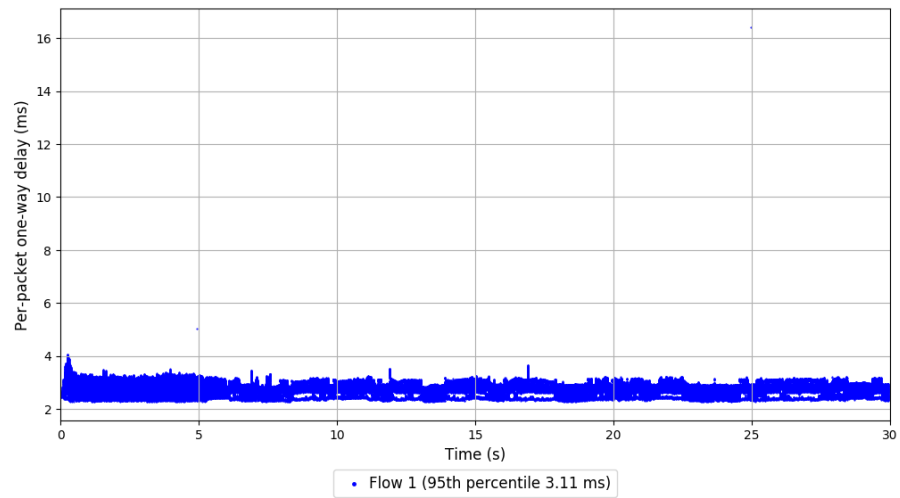
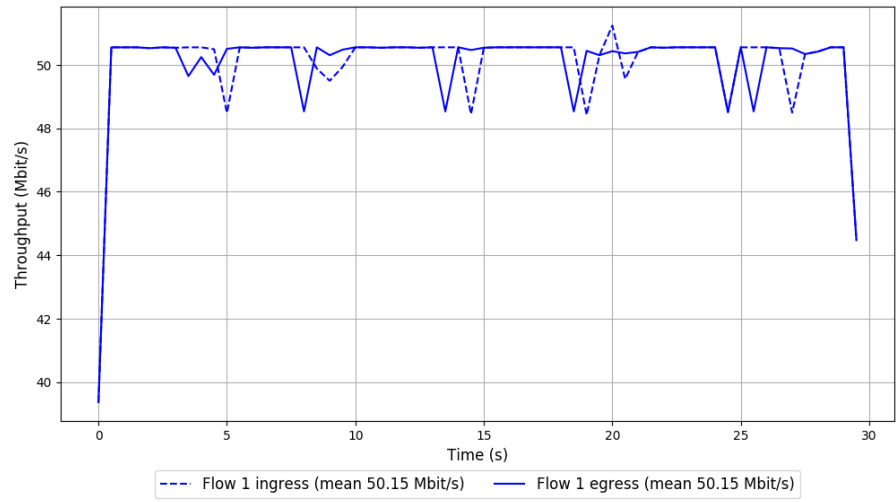


Run 3: Statistics of Sprout

Start at: 2017-09-21 13:10:40
End at: 2017-09-21 13:11:10
Local clock offset: 0.224 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 3.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 3.109 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

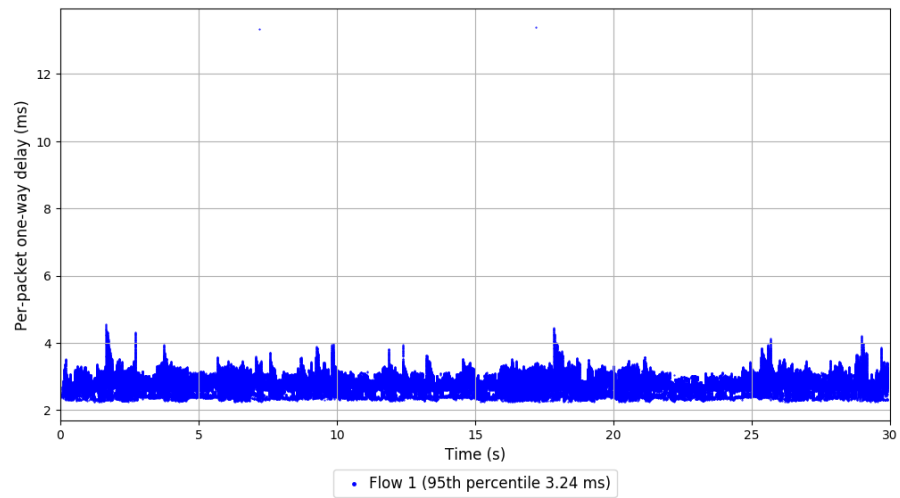
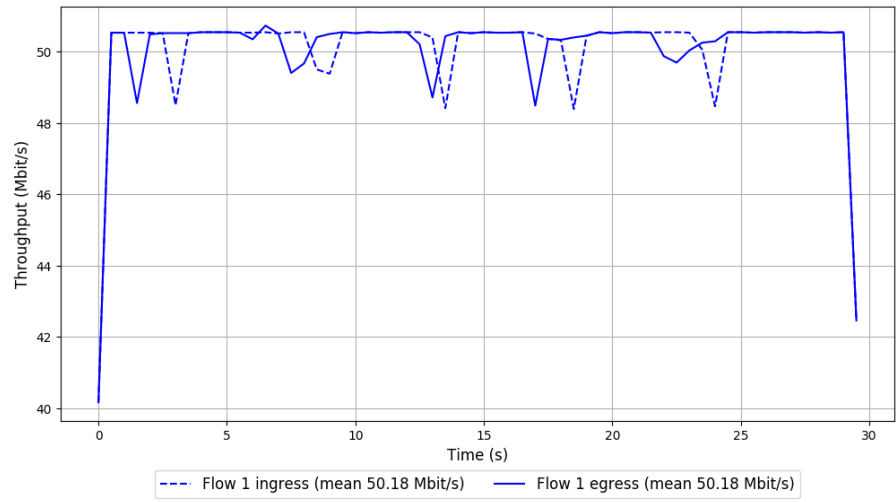


Run 4: Statistics of Sprout

Start at: 2017-09-21 13:28:57
End at: 2017-09-21 13:29:28
Local clock offset: 0.179 ms
Remote clock offset: -0.237 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 3.240 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.18 Mbit/s
95th percentile per-packet one-way delay: 3.240 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

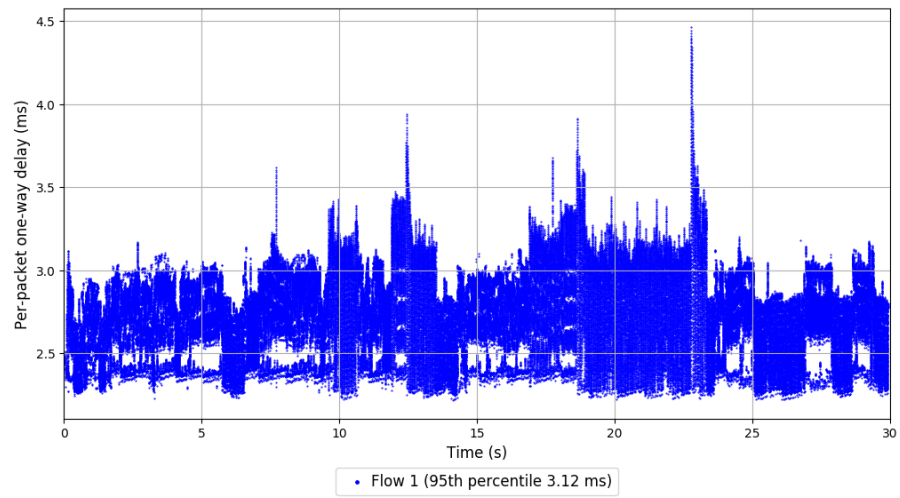
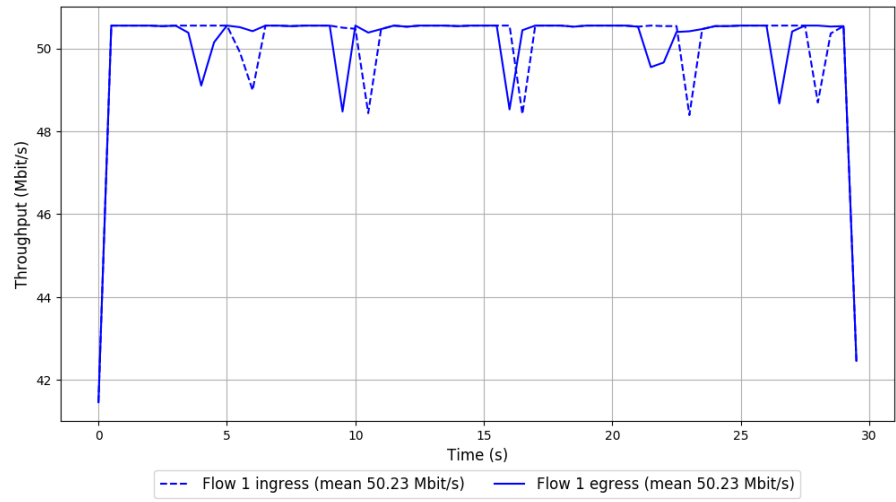


Run 5: Statistics of Sprout

Start at: 2017-09-21 13:47:17
End at: 2017-09-21 13:47:47
Local clock offset: 0.087 ms
Remote clock offset: -0.388 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 3.123 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.23 Mbit/s
95th percentile per-packet one-way delay: 3.123 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2017-09-21 14:05:34

End at: 2017-09-21 14:06:04

Local clock offset: 0.1 ms

Remote clock offset: -0.444 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 3.034 ms

Loss rate: 0.00%

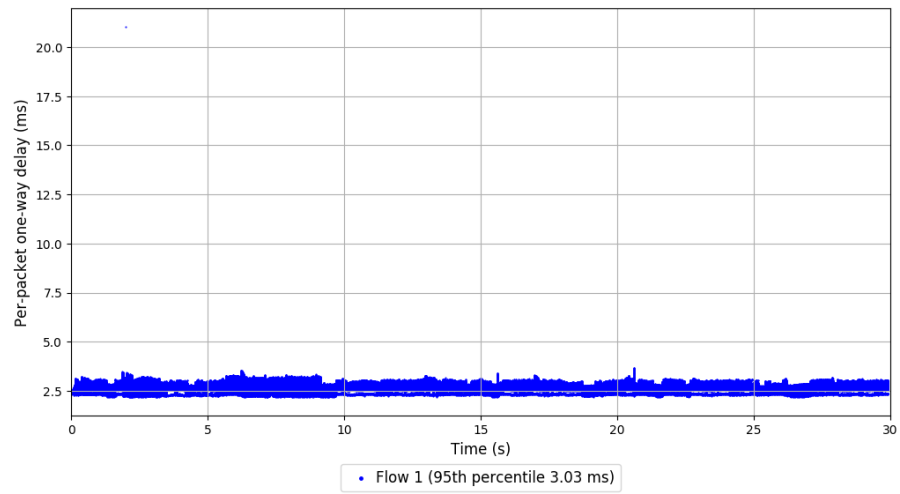
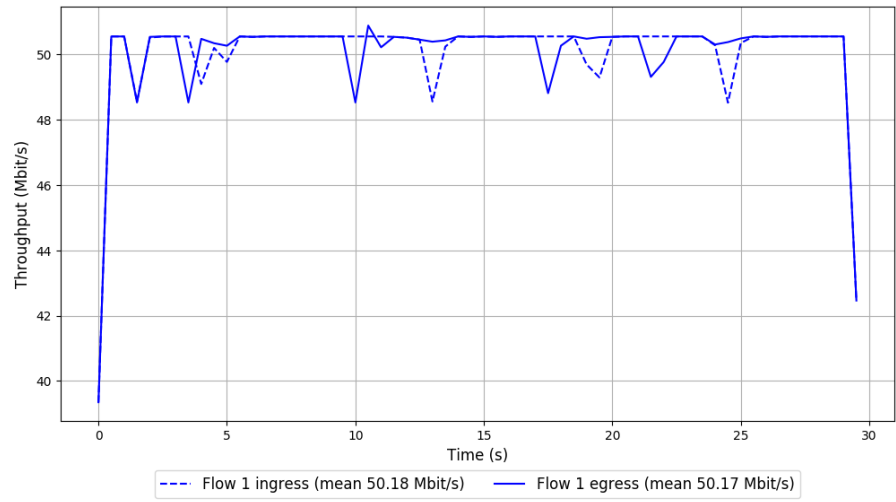
-- Flow 1:

Average throughput: 50.17 Mbit/s

95th percentile per-packet one-way delay: 3.034 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2017-09-21 14:23:46

End at: 2017-09-21 14:24:16

Local clock offset: 0.073 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 3.129 ms

Loss rate: 0.00%

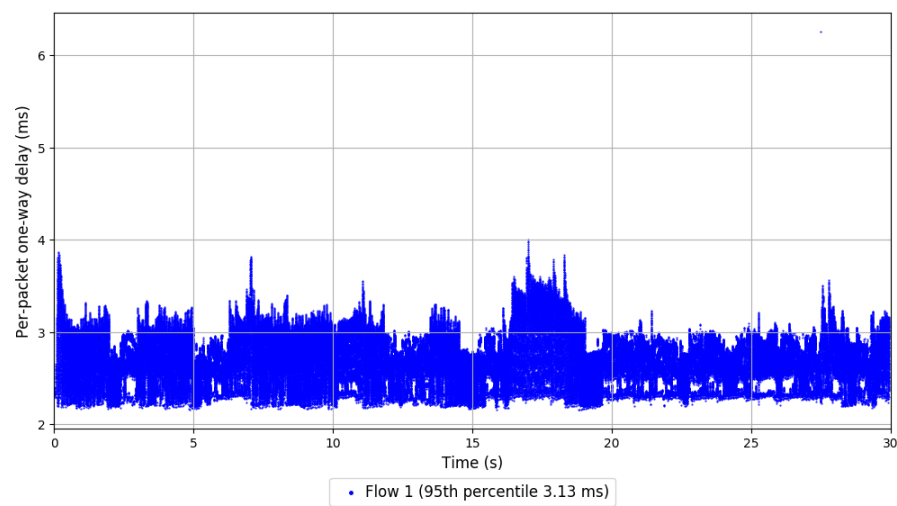
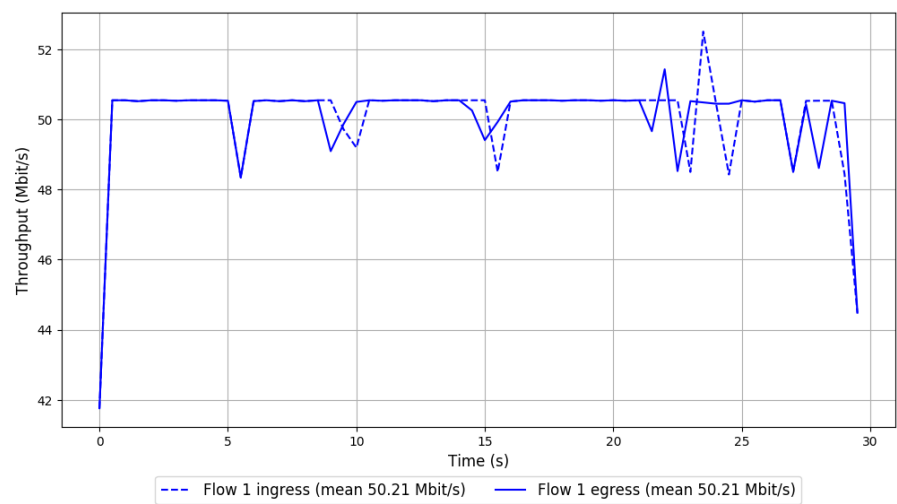
-- Flow 1:

Average throughput: 50.21 Mbit/s

95th percentile per-packet one-way delay: 3.129 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

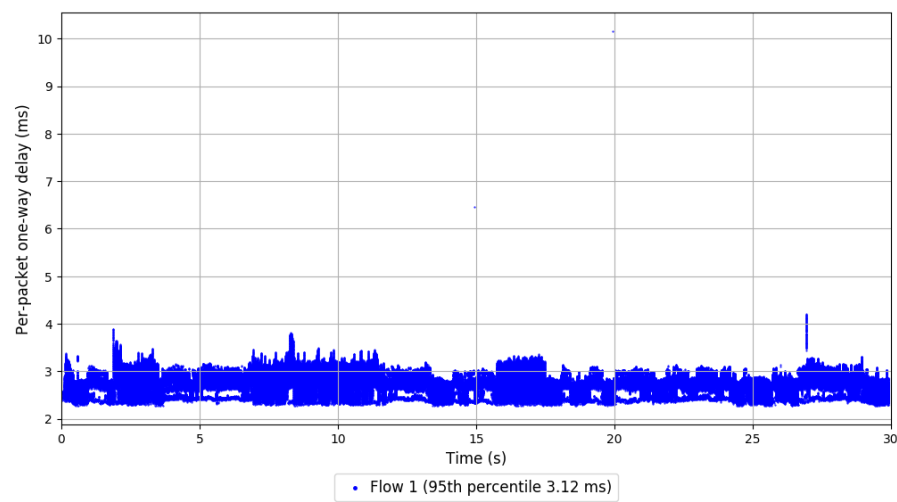
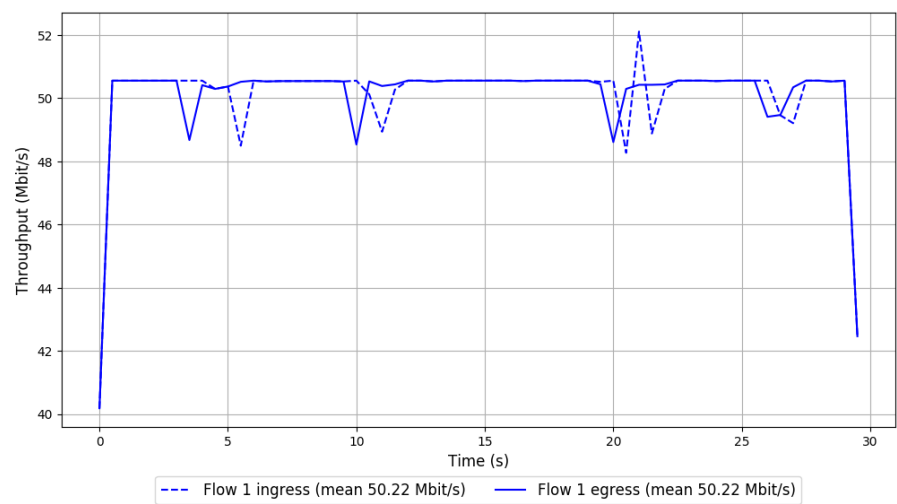


Run 8: Statistics of Sprout

Start at: 2017-09-21 14:41:33
End at: 2017-09-21 14:42:03
Local clock offset: -0.095 ms
Remote clock offset: -0.526 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 3.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.22 Mbit/s
95th percentile per-packet one-way delay: 3.116 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

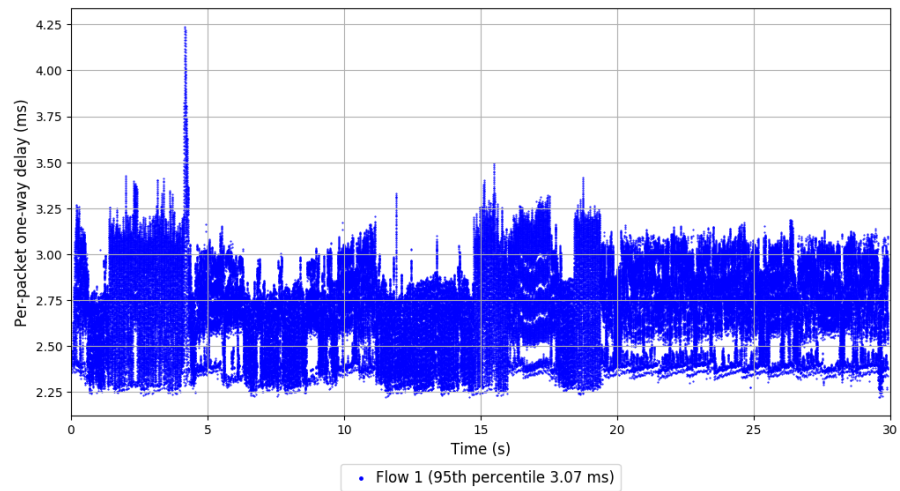
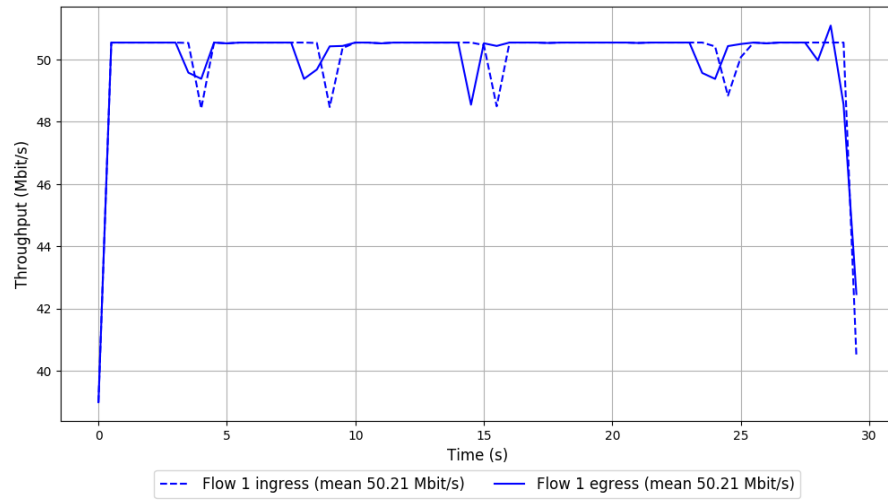


Run 9: Statistics of Sprout

Start at: 2017-09-21 14:59:44
End at: 2017-09-21 15:00:14
Local clock offset: -0.181 ms
Remote clock offset: -0.607 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.069 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.21 Mbit/s
95th percentile per-packet one-way delay: 3.069 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

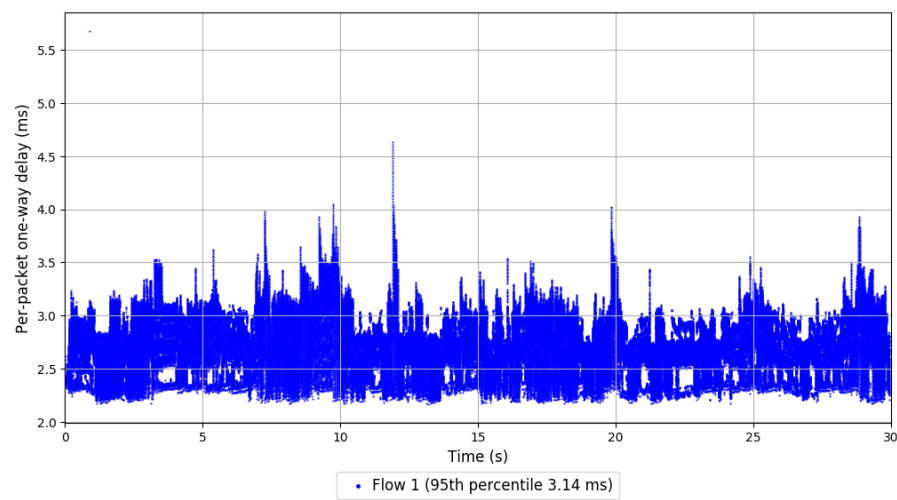
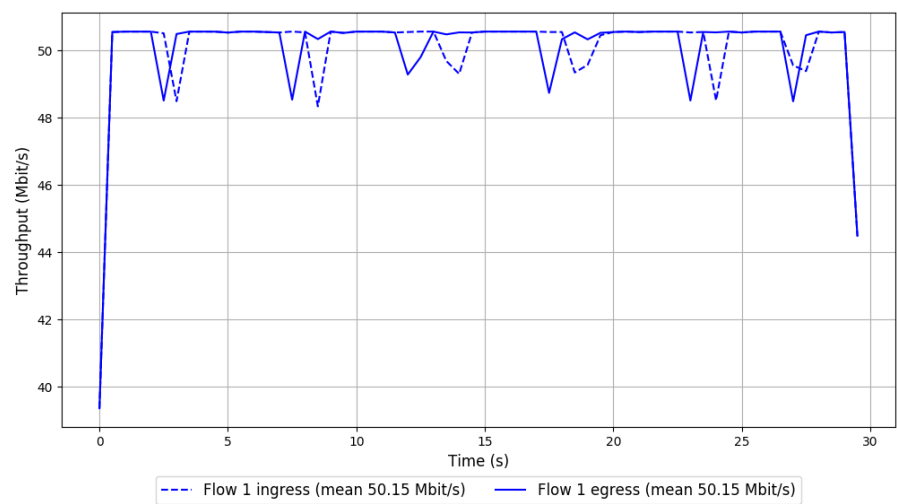


Run 10: Statistics of Sprout

Start at: 2017-09-21 15:18:06
End at: 2017-09-21 15:18:36
Local clock offset: -0.153 ms
Remote clock offset: -0.475 ms

Below is generated by plot.py at 2017-09-21 17:49:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 3.141 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 3.141 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

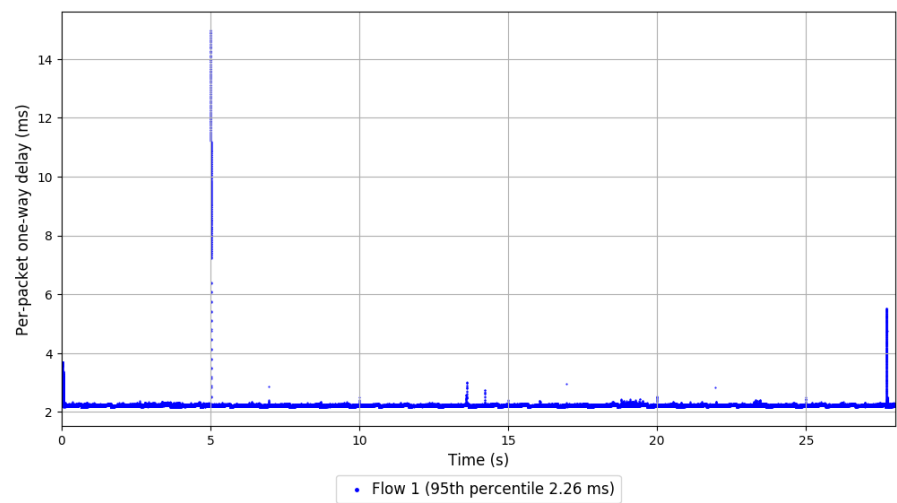
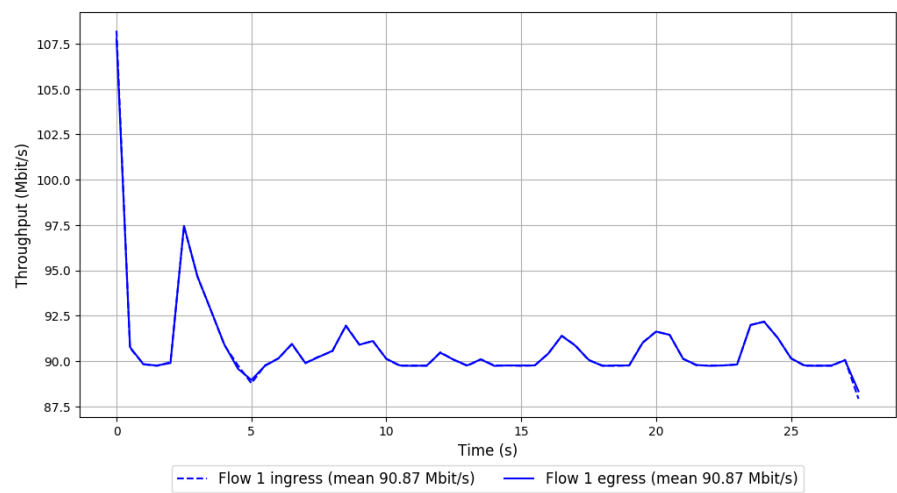


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-21 12:21:52
End at: 2017-09-21 12:22:22
Local clock offset: 0.335 ms
Remote clock offset: 0.317 ms

# Below is generated by plot.py at 2017-09-21 17:49:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 2.258 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.87 Mbit/s
95th percentile per-packet one-way delay: 2.258 ms
Loss rate: 0.00%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2017-09-21 12:39:33

End at: 2017-09-21 12:40:03

Local clock offset: 0.237 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.00%

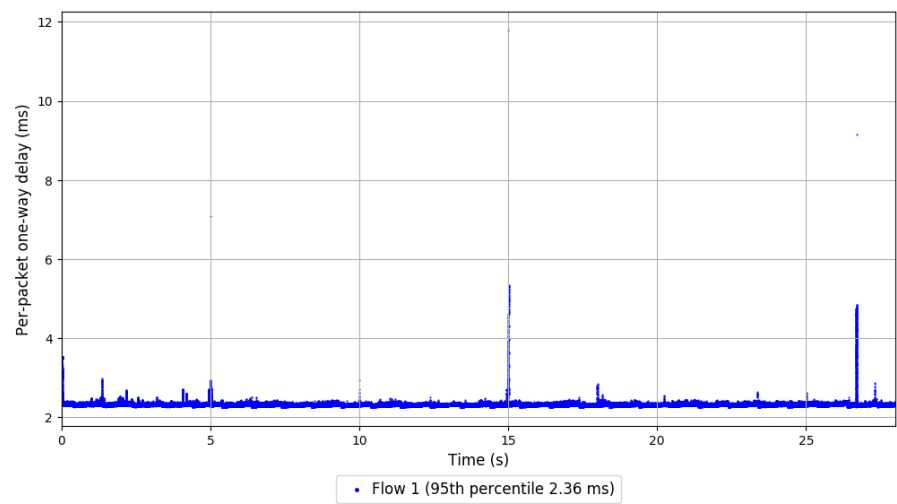
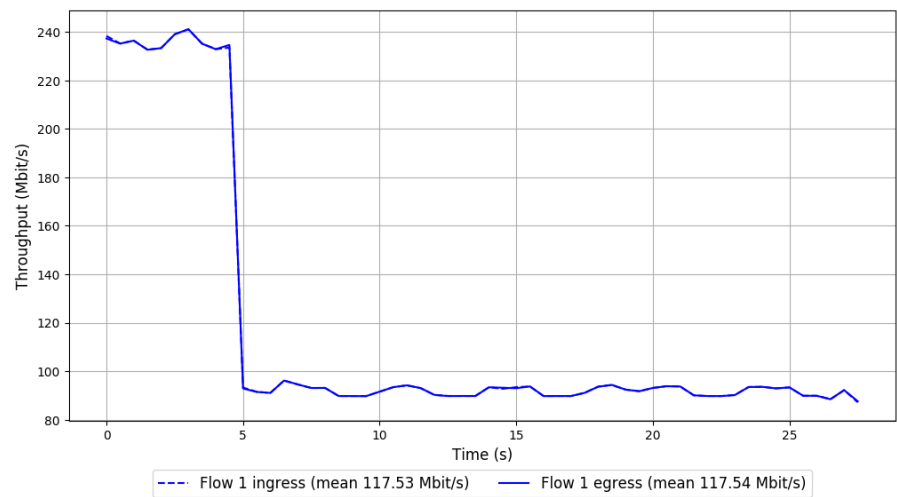
-- Flow 1:

Average throughput: 117.54 Mbit/s

95th percentile per-packet one-way delay: 2.359 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

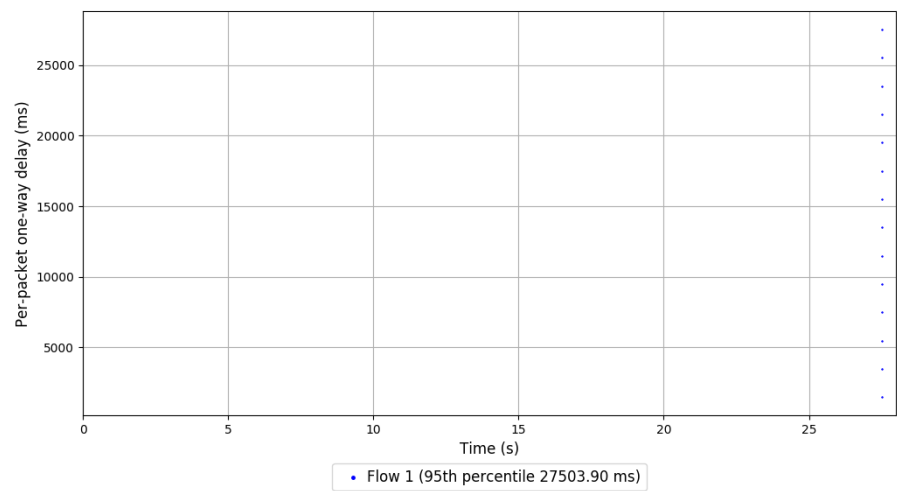
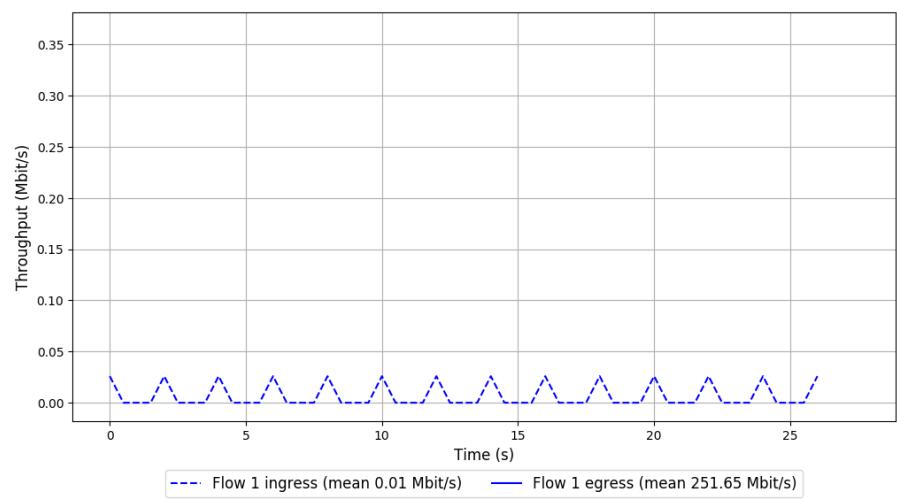
Start at: 2017-09-21 12:57:46

End at: 2017-09-21 12:58:16

Local clock offset: 0.308 ms

Remote clock offset: -0.012 ms

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



Run 4: Statistics of TaoVA-100x

Start at: 2017-09-21 13:15:53

End at: 2017-09-21 13:16:23

Local clock offset: 0.268 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 133.43 Mbit/s

95th percentile per-packet one-way delay: 2.259 ms

Loss rate: 0.00%

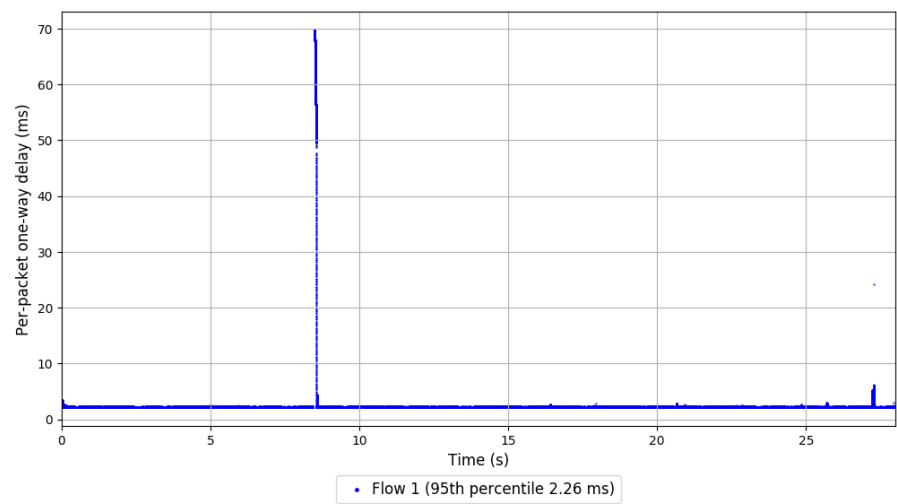
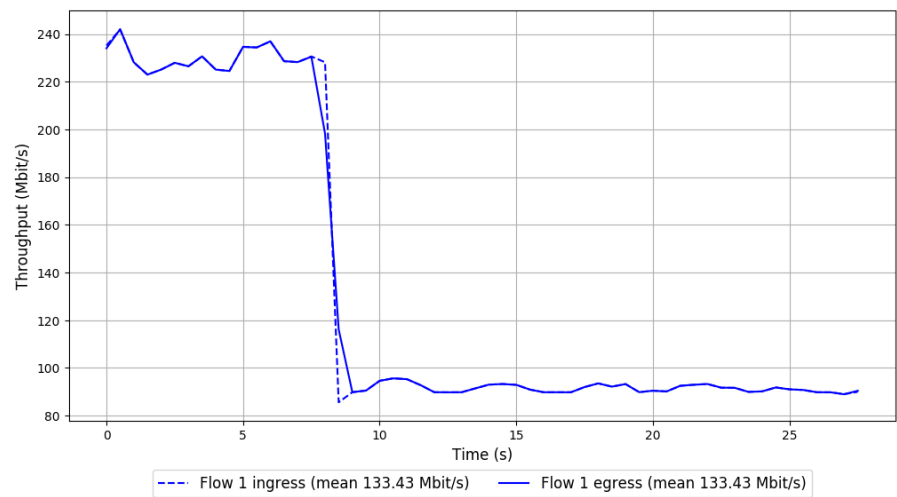
-- Flow 1:

Average throughput: 133.43 Mbit/s

95th percentile per-packet one-way delay: 2.259 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2017-09-21 13:34:17

End at: 2017-09-21 13:34:47

Local clock offset: 0.255 ms

Remote clock offset: -0.339 ms

Below is generated by plot.py at 2017-09-21 17:49:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 42.497 ms

Loss rate: 2.15%

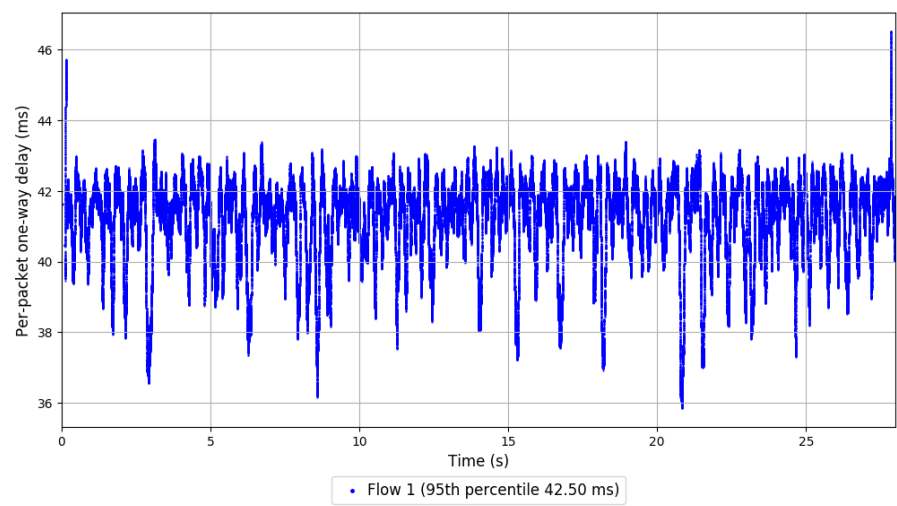
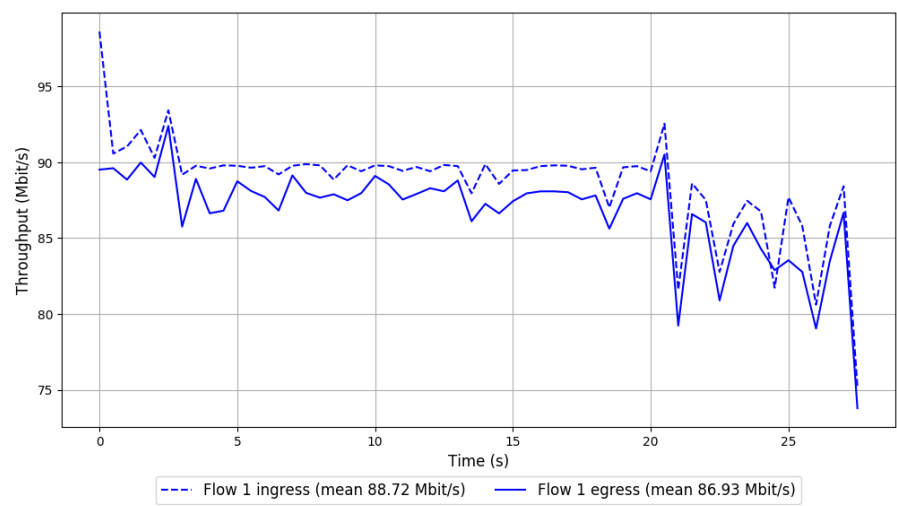
-- Flow 1:

Average throughput: 86.93 Mbit/s

95th percentile per-packet one-way delay: 42.497 ms

Loss rate: 2.15%

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



Run 6: Statistics of TaoVA-100x

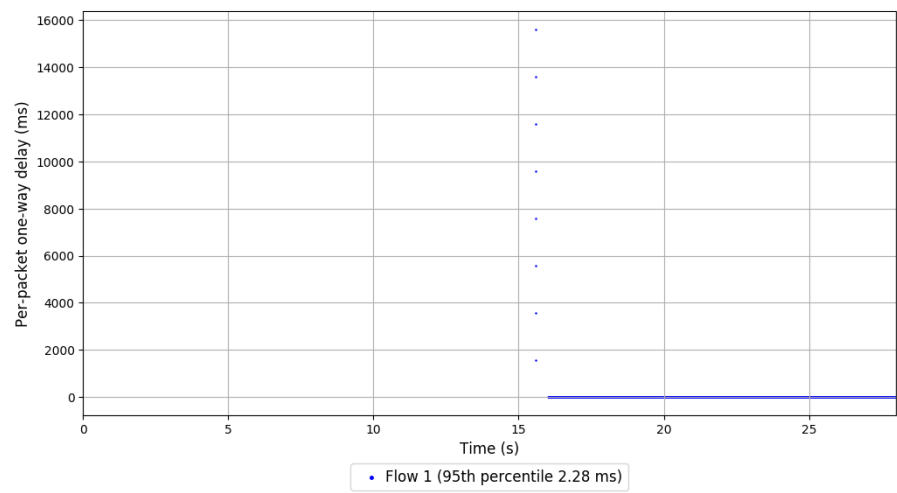
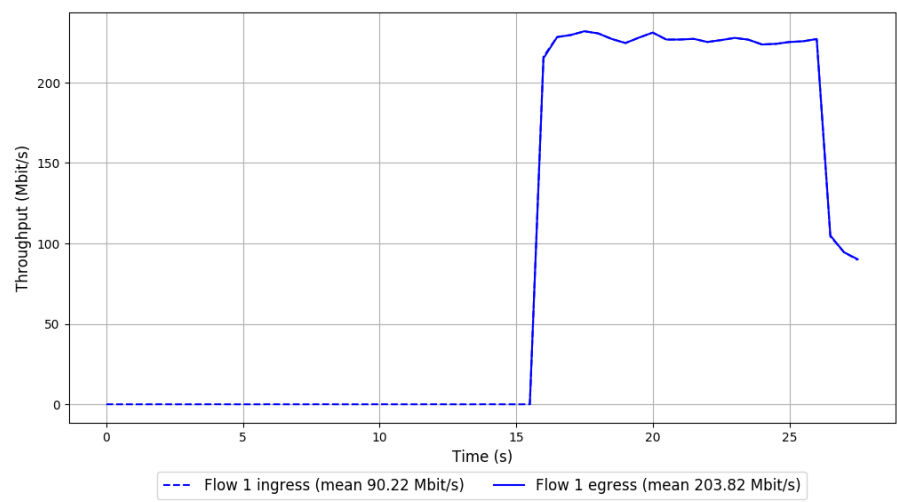
Start at: 2017-09-21 13:52:40

End at: 2017-09-21 13:53:10

Local clock offset: 0.116 ms

Remote clock offset: -0.404 ms

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

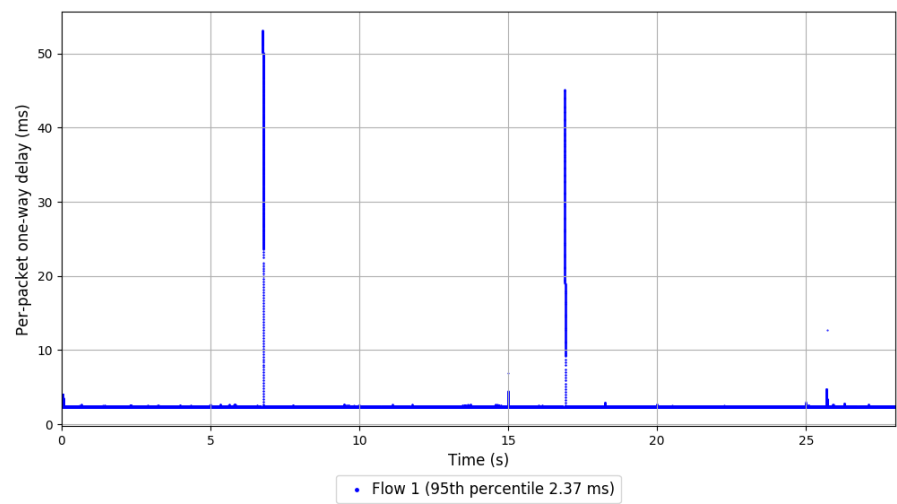
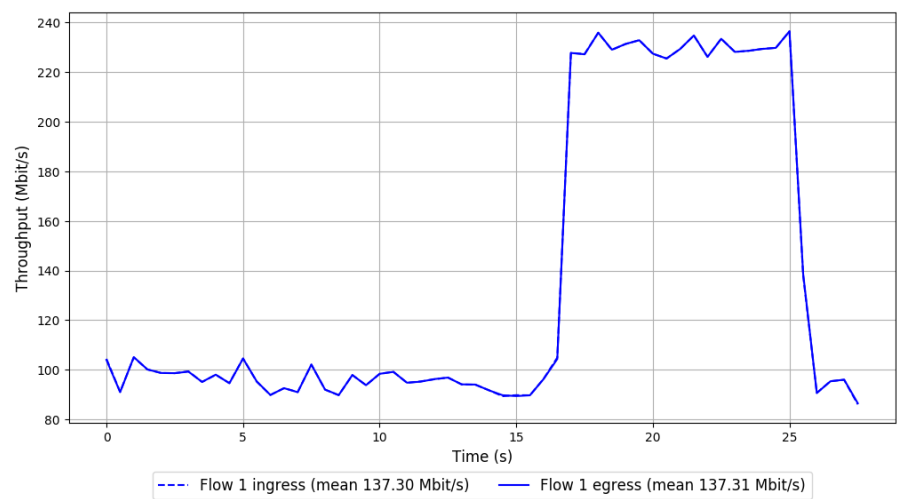


Run 7: Statistics of TaoVA-100x

Start at: 2017-09-21 14:10:48
End at: 2017-09-21 14:11:18
Local clock offset: -0.016 ms
Remote clock offset: -0.433 ms

Below is generated by plot.py at 2017-09-21 17:50:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.31 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 137.31 Mbit/s
95th percentile per-packet one-way delay: 2.371 ms
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2017-09-21 14:28:55

End at: 2017-09-21 14:29:25

Local clock offset: 0.054 ms

Remote clock offset: -0.533 ms

Below is generated by plot.py at 2017-09-21 17:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.53 Mbit/s

95th percentile per-packet one-way delay: 2.204 ms

Loss rate: 0.00%

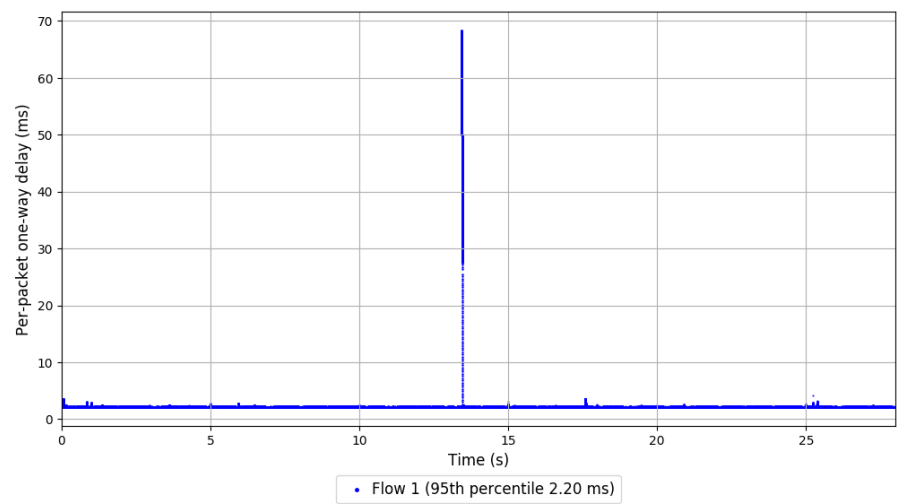
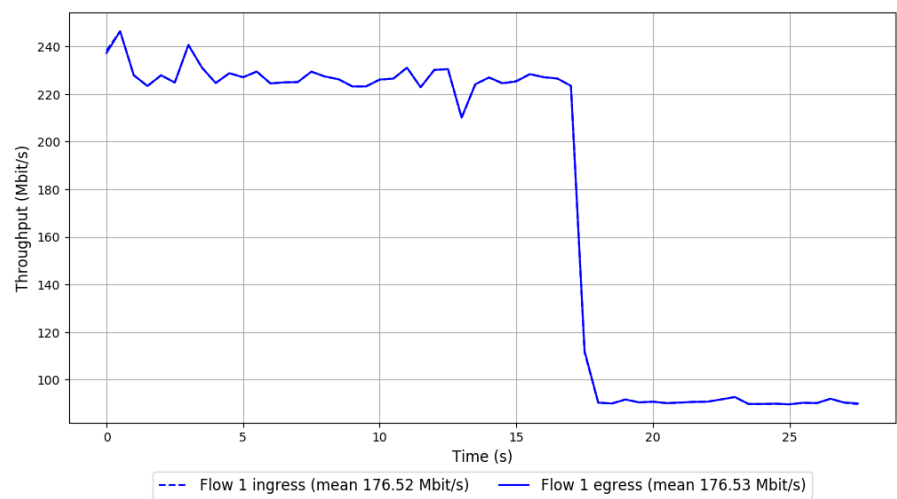
-- Flow 1:

Average throughput: 176.53 Mbit/s

95th percentile per-packet one-way delay: 2.204 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2017-09-21 14:46:55

End at: 2017-09-21 14:47:25

Local clock offset: -0.075 ms

Remote clock offset: -0.55 ms

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

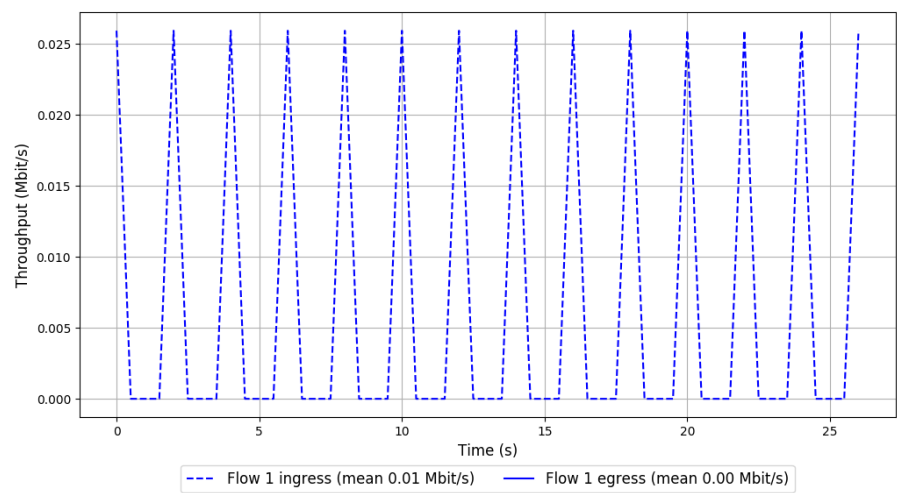


Figure is missing

Run 10: Statistics of TaoVA-100x

Start at: 2017-09-21 15:05:07

End at: 2017-09-21 15:05:37

Local clock offset: -0.102 ms

Remote clock offset: -0.55 ms

Below is generated by plot.py at 2017-09-21 17:52:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 2.238 ms

Loss rate: 0.00%

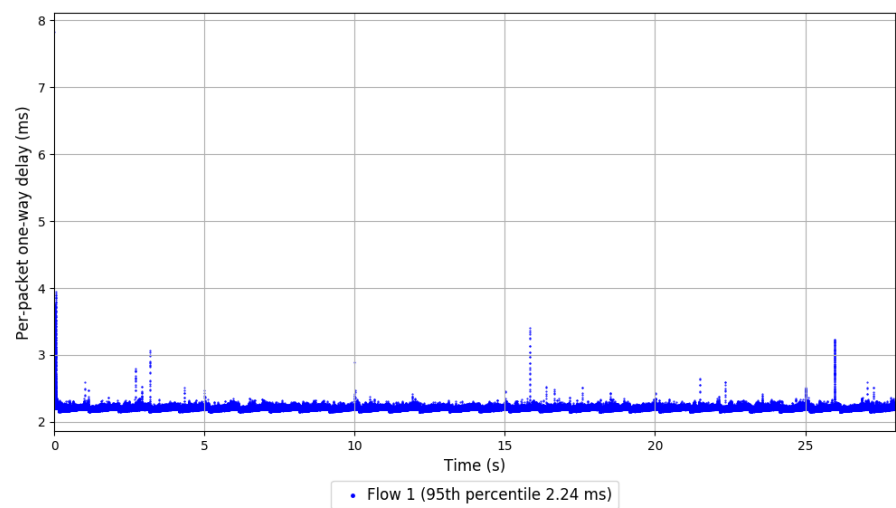
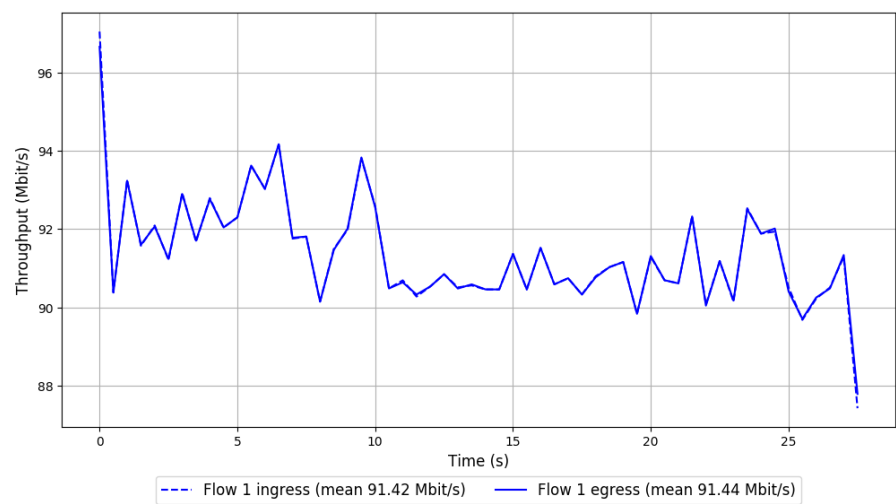
-- Flow 1:

Average throughput: 91.44 Mbit/s

95th percentile per-packet one-way delay: 2.238 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2017-09-21 12:23:02

End at: 2017-09-21 12:23:32

Local clock offset: 0.344 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2017-09-21 17:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 523.17 Mbit/s

95th percentile per-packet one-way delay: 4.031 ms

Loss rate: 0.00%

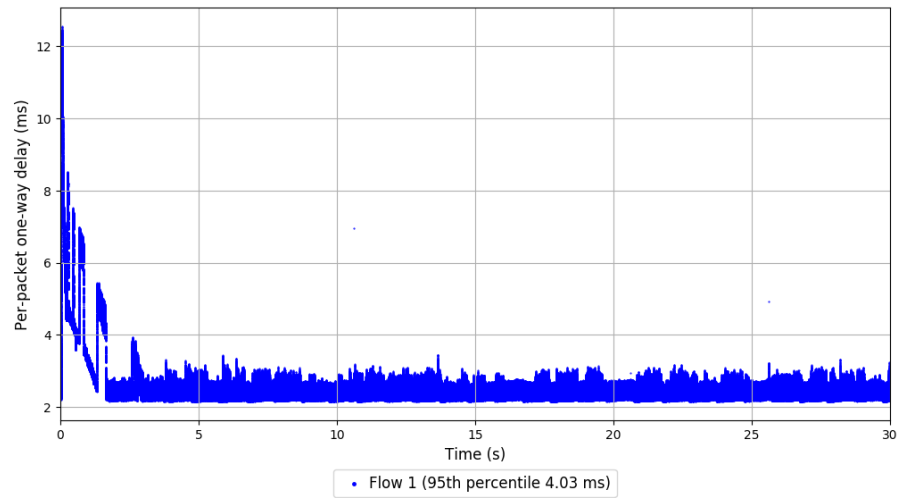
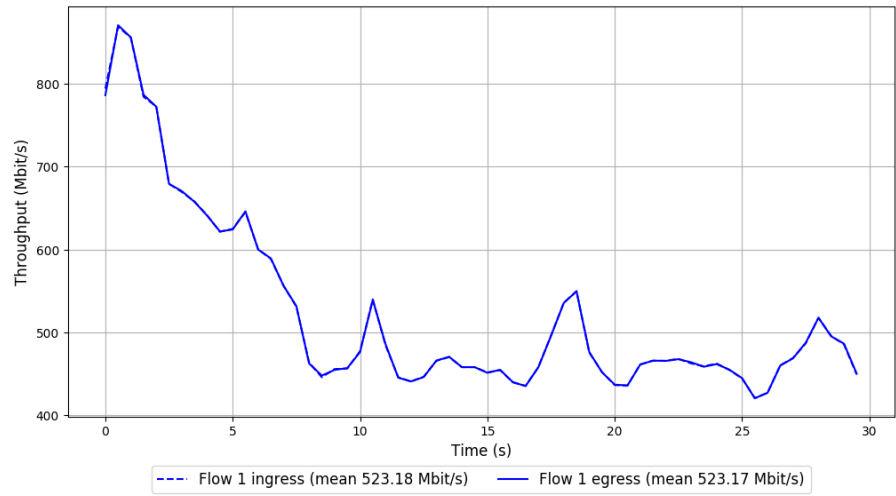
-- Flow 1:

Average throughput: 523.17 Mbit/s

95th percentile per-packet one-way delay: 4.031 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2017-09-21 12:40:45

End at: 2017-09-21 12:41:15

Local clock offset: 0.318 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2017-09-21 17:55:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 463.58 Mbit/s

95th percentile per-packet one-way delay: 2.758 ms

Loss rate: 0.00%

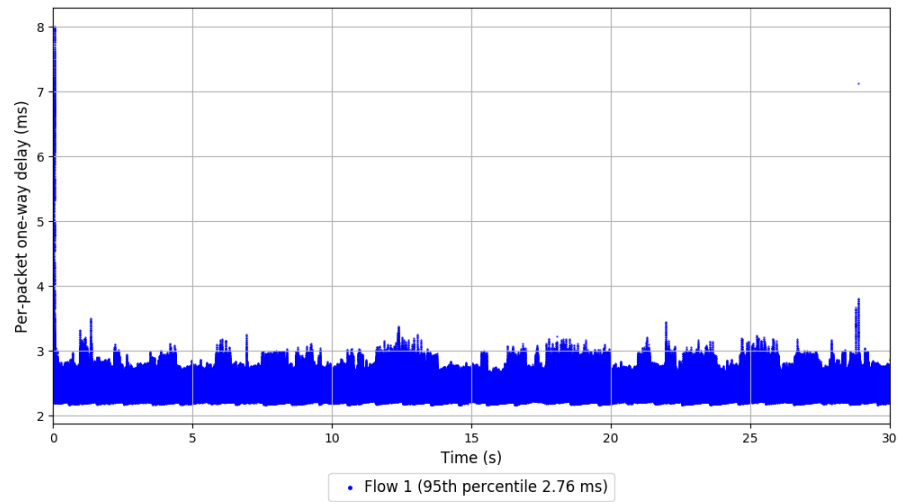
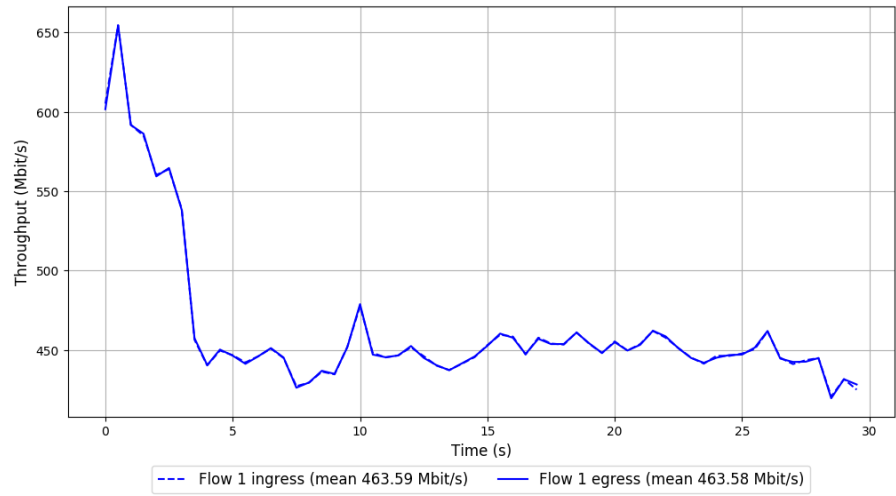
-- Flow 1:

Average throughput: 463.58 Mbit/s

95th percentile per-packet one-way delay: 2.758 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

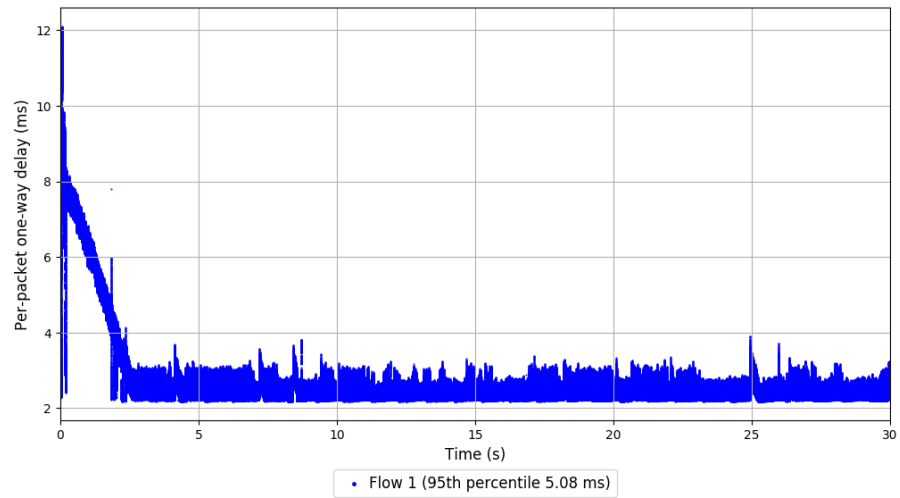
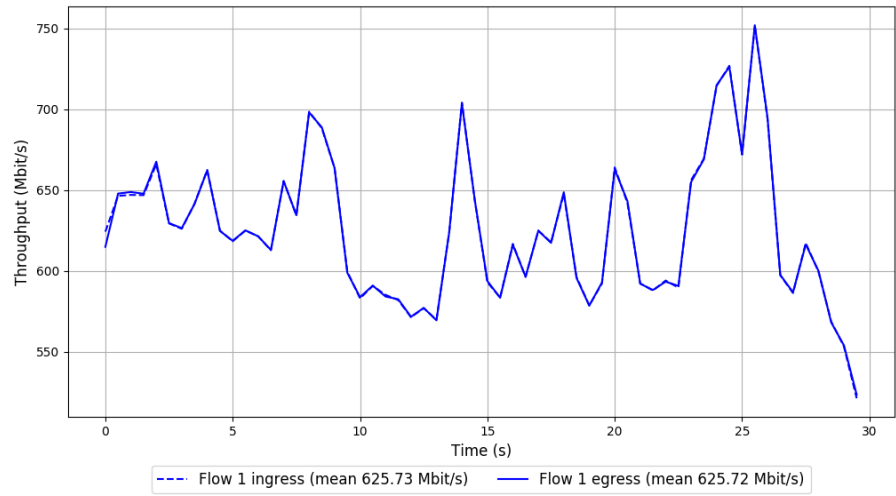


Run 3: Statistics of TCP Vegas

Start at: 2017-09-21 12:58:49
End at: 2017-09-21 12:59:19
Local clock offset: 0.288 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2017-09-21 17:57:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 625.72 Mbit/s
95th percentile per-packet one-way delay: 5.078 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 625.72 Mbit/s
95th percentile per-packet one-way delay: 5.078 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link

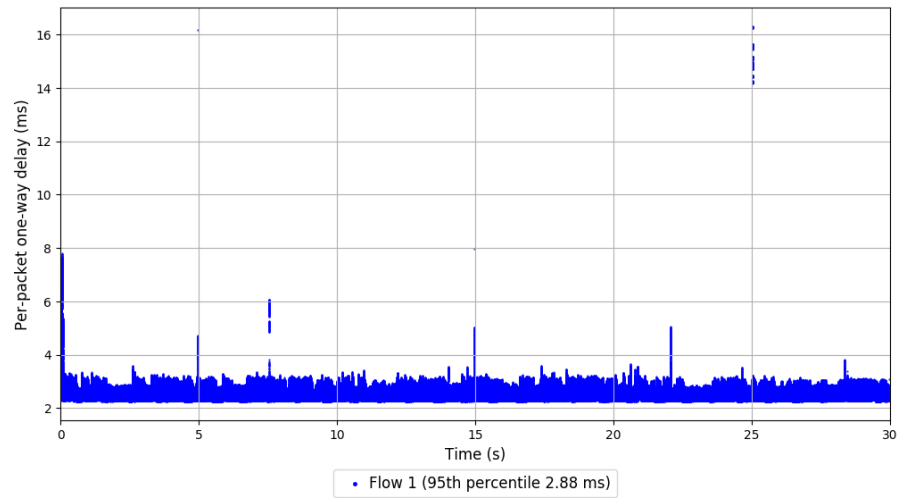
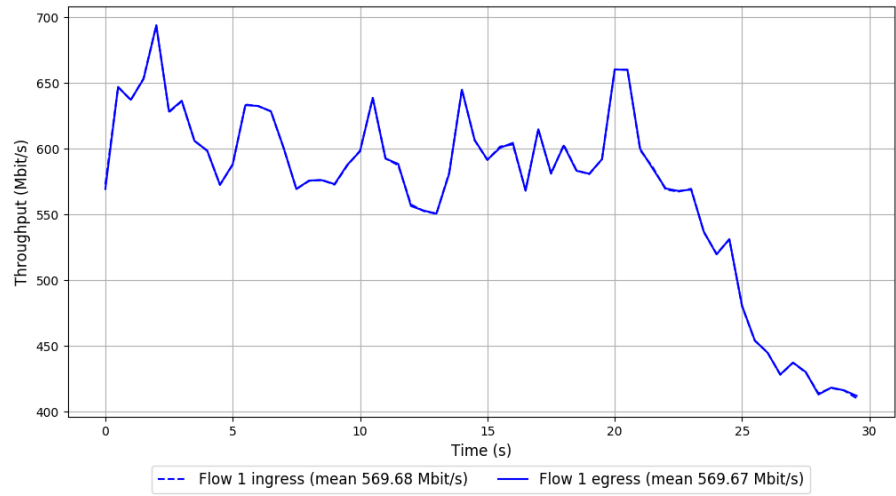


Run 4: Statistics of TCP Vegas

Start at: 2017-09-21 13:17:06
End at: 2017-09-21 13:17:36
Local clock offset: 0.171 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2017-09-21 17:57:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 569.67 Mbit/s
95th percentile per-packet one-way delay: 2.879 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 569.67 Mbit/s
95th percentile per-packet one-way delay: 2.879 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2017-09-21 13:35:27

End at: 2017-09-21 13:35:57

Local clock offset: 0.245 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2017-09-21 17:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.54 Mbit/s

95th percentile per-packet one-way delay: 2.815 ms

Loss rate: 0.00%

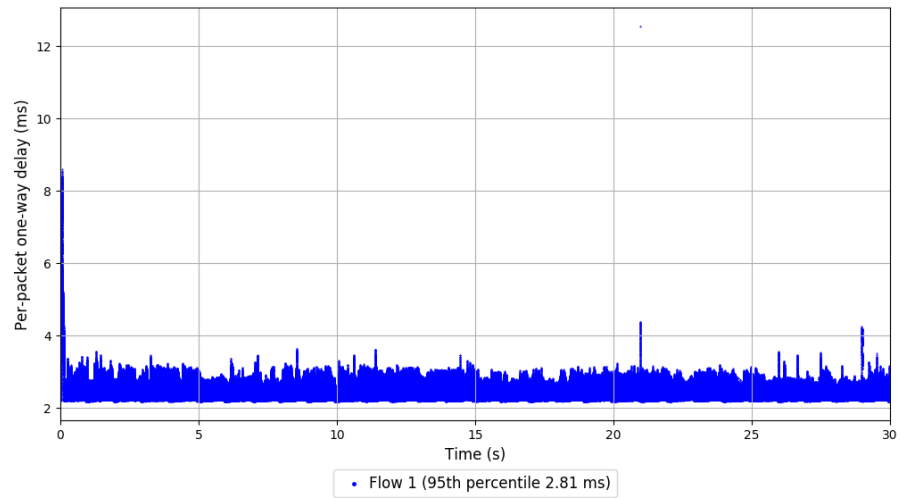
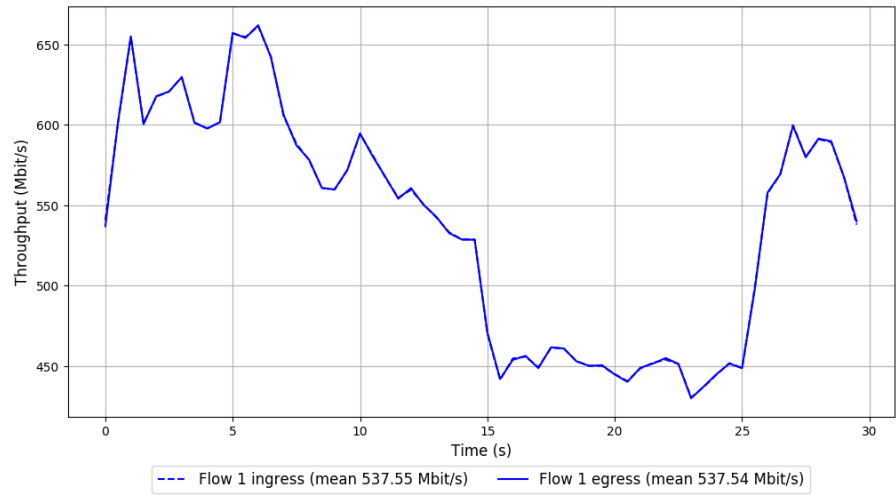
-- Flow 1:

Average throughput: 537.54 Mbit/s

95th percentile per-packet one-way delay: 2.815 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

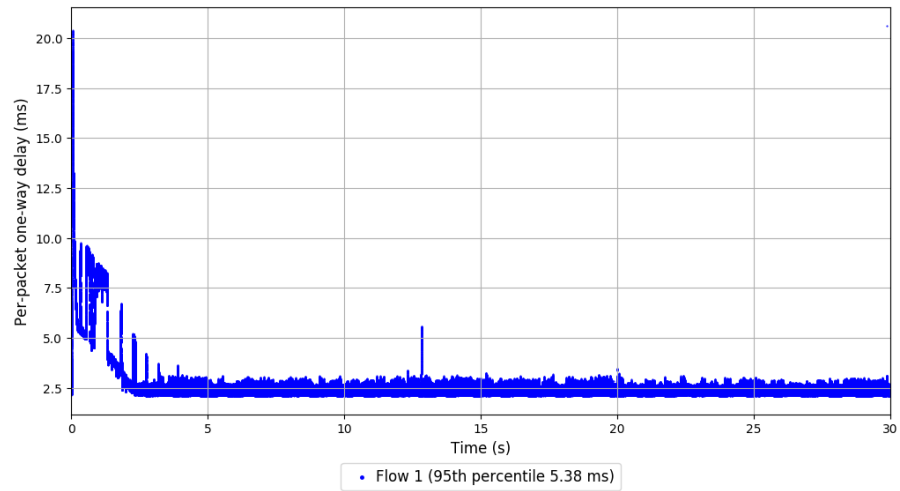
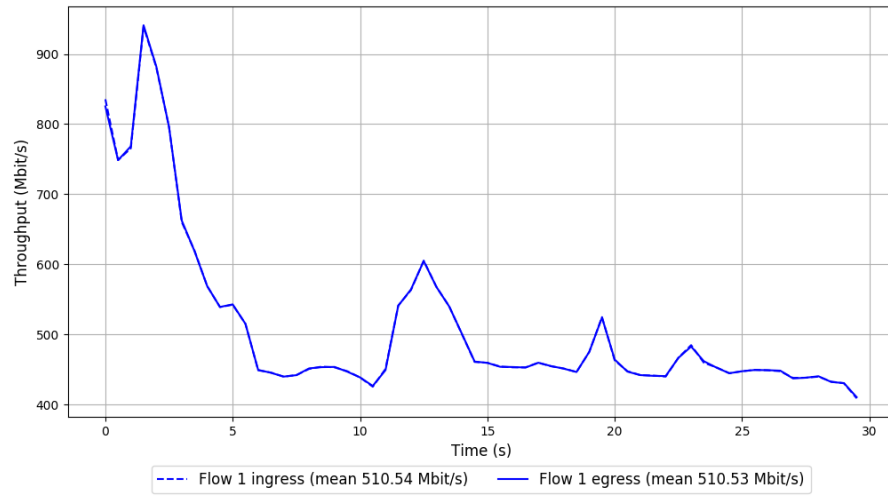


Run 6: Statistics of TCP Vegas

Start at: 2017-09-21 13:53:50
End at: 2017-09-21 13:54:20
Local clock offset: 0.136 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2017-09-21 17:57:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 510.53 Mbit/s
95th percentile per-packet one-way delay: 5.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 510.53 Mbit/s
95th percentile per-packet one-way delay: 5.380 ms
Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2017-09-21 14:12:01

End at: 2017-09-21 14:12:31

Local clock offset: 0.091 ms

Remote clock offset: -0.4 ms

Below is generated by plot.py at 2017-09-21 17:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.99 Mbit/s

95th percentile per-packet one-way delay: 2.855 ms

Loss rate: 0.00%

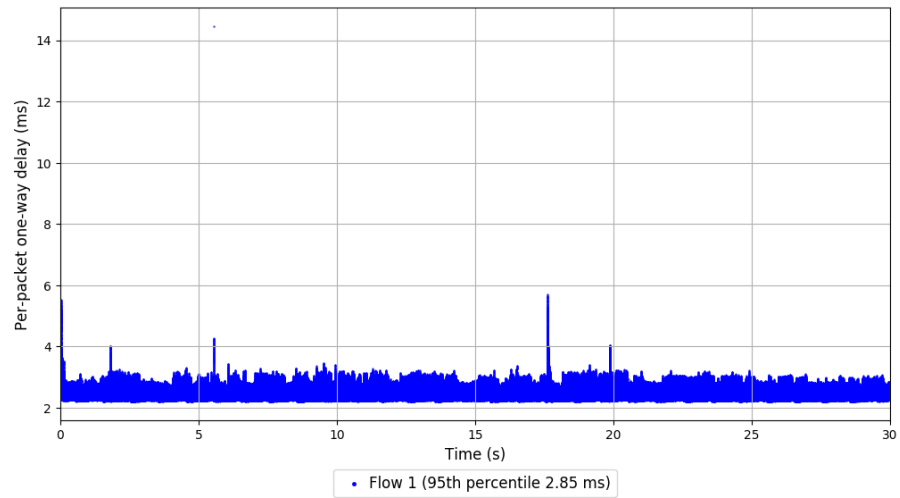
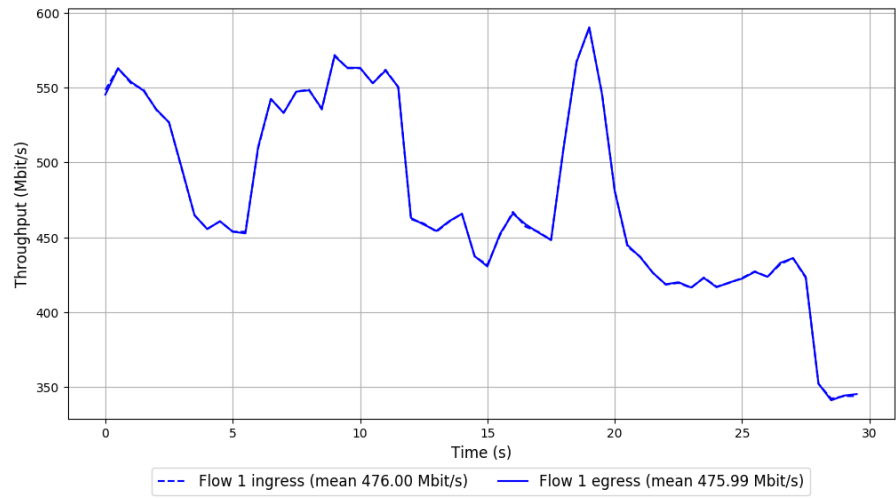
-- Flow 1:

Average throughput: 475.99 Mbit/s

95th percentile per-packet one-way delay: 2.855 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

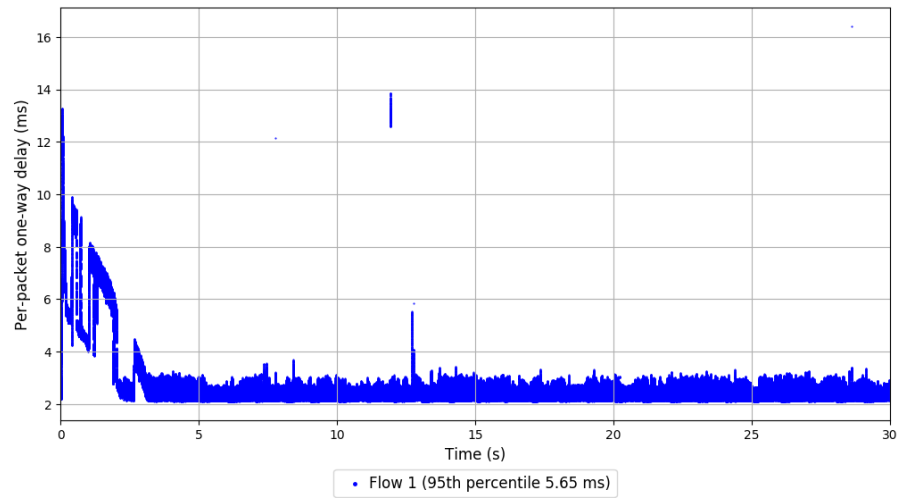
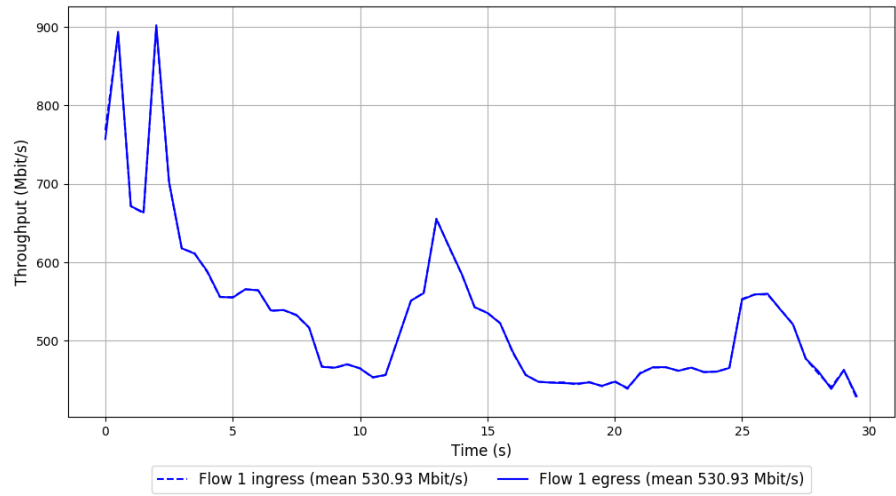


Run 8: Statistics of TCP Vegas

Start at: 2017-09-21 14:30:11
End at: 2017-09-21 14:30:41
Local clock offset: 0.043 ms
Remote clock offset: -0.567 ms

Below is generated by plot.py at 2017-09-21 17:59:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 530.93 Mbit/s
95th percentile per-packet one-way delay: 5.651 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 530.93 Mbit/s
95th percentile per-packet one-way delay: 5.651 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

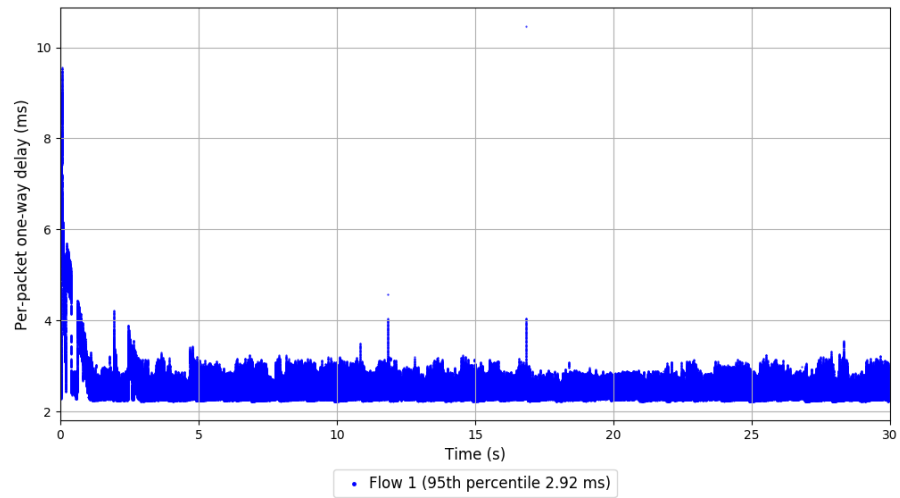
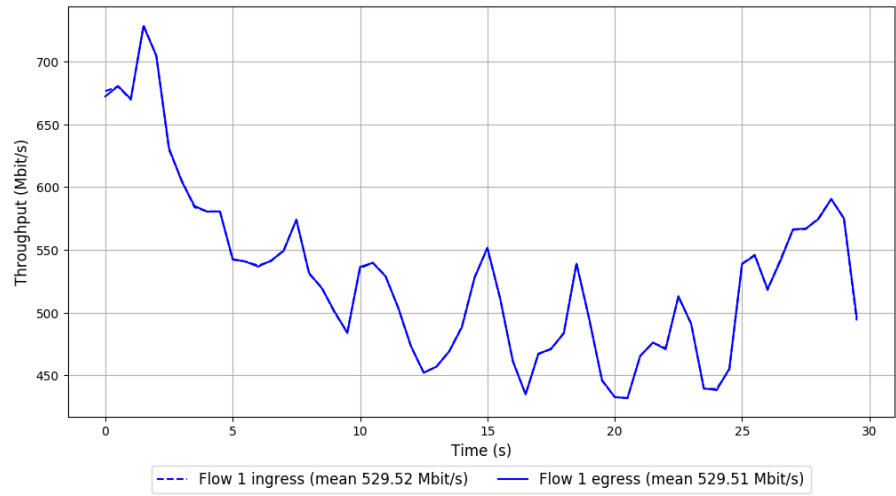


Run 9: Statistics of TCP Vegas

Start at: 2017-09-21 14:47:58
End at: 2017-09-21 14:48:28
Local clock offset: -0.095 ms
Remote clock offset: -0.558 ms

Below is generated by plot.py at 2017-09-21 18:03:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 529.51 Mbit/s
95th percentile per-packet one-way delay: 2.916 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 529.51 Mbit/s
95th percentile per-packet one-way delay: 2.916 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link

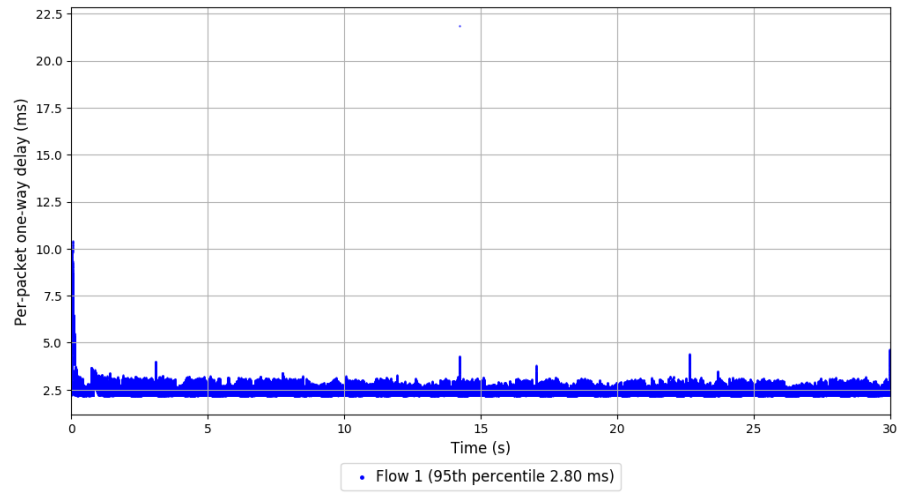
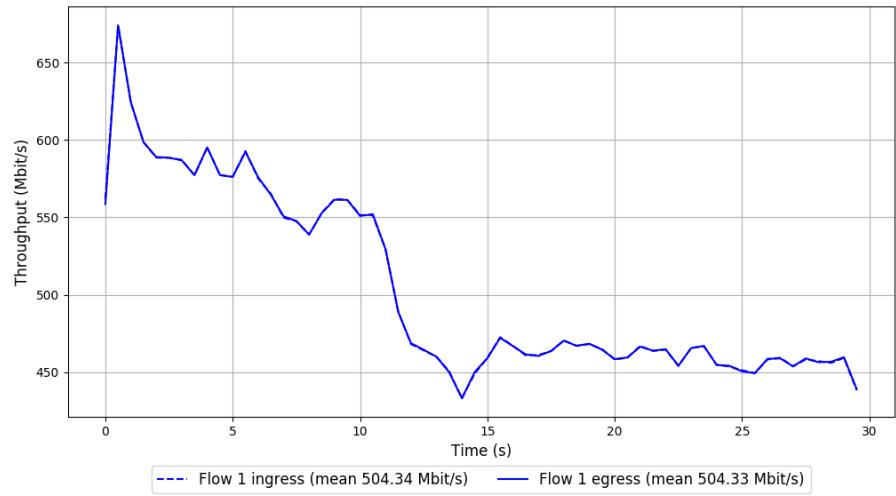


Run 10: Statistics of TCP Vegas

Start at: 2017-09-21 15:06:17
End at: 2017-09-21 15:06:47
Local clock offset: -0.104 ms
Remote clock offset: -0.539 ms

Below is generated by plot.py at 2017-09-21 18:03:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 504.33 Mbit/s
95th percentile per-packet one-way delay: 2.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 504.33 Mbit/s
95th percentile per-packet one-way delay: 2.804 ms
Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2017-09-21 12:29:47

End at: 2017-09-21 12:30:17

Local clock offset: 0.309 ms

Remote clock offset: 0.234 ms

Below is generated by plot.py at 2017-09-21 18:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.20 Mbit/s

95th percentile per-packet one-way delay: 7.270 ms

Loss rate: 0.13%

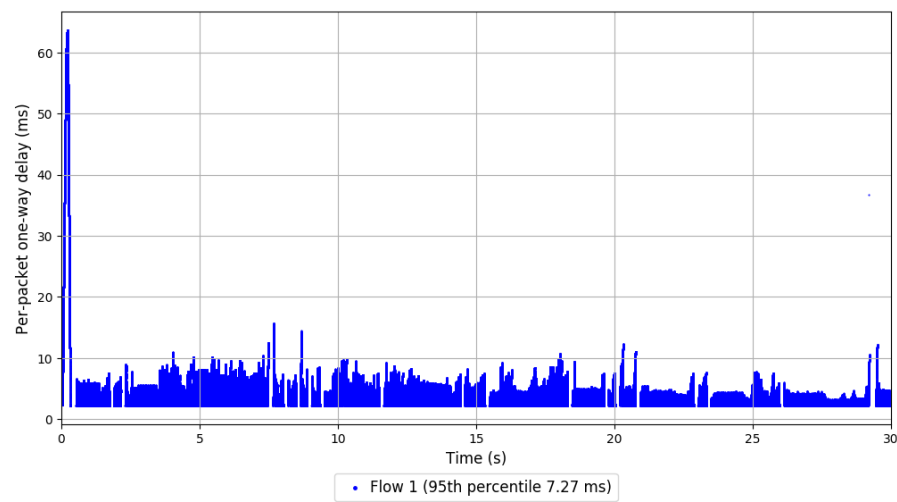
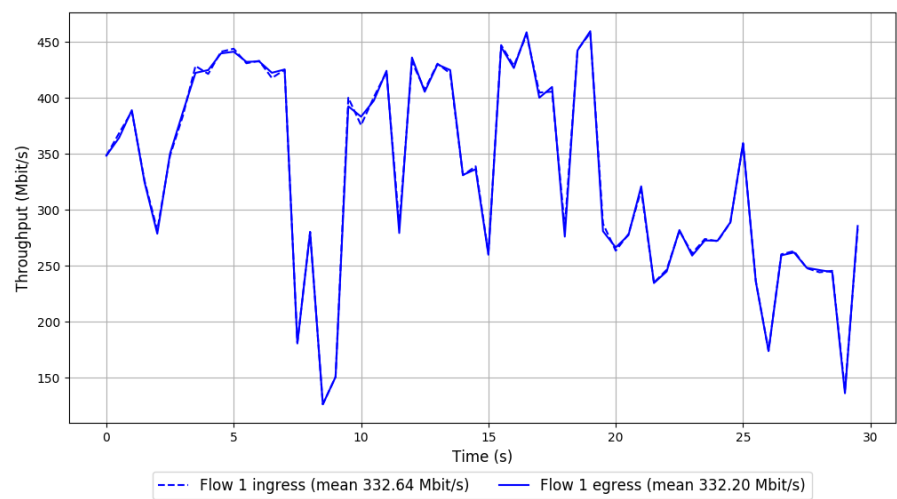
-- Flow 1:

Average throughput: 332.20 Mbit/s

95th percentile per-packet one-way delay: 7.270 ms

Loss rate: 0.13%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2017-09-21 12:47:26

End at: 2017-09-21 12:47:56

Local clock offset: 0.297 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2017-09-21 18:03:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 351.40 Mbit/s

95th percentile per-packet one-way delay: 8.376 ms

Loss rate: 0.22%

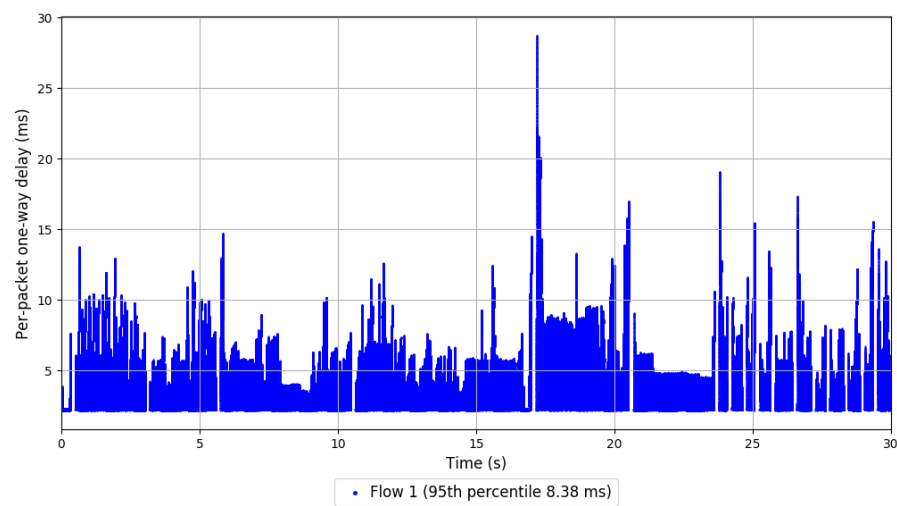
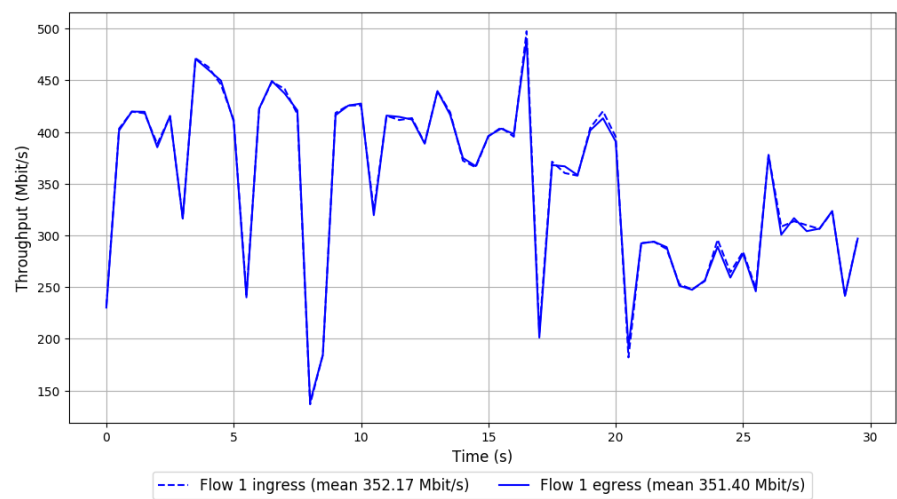
-- Flow 1:

Average throughput: 351.40 Mbit/s

95th percentile per-packet one-way delay: 8.376 ms

Loss rate: 0.22%

Run 2: Report of Verus — Data Link

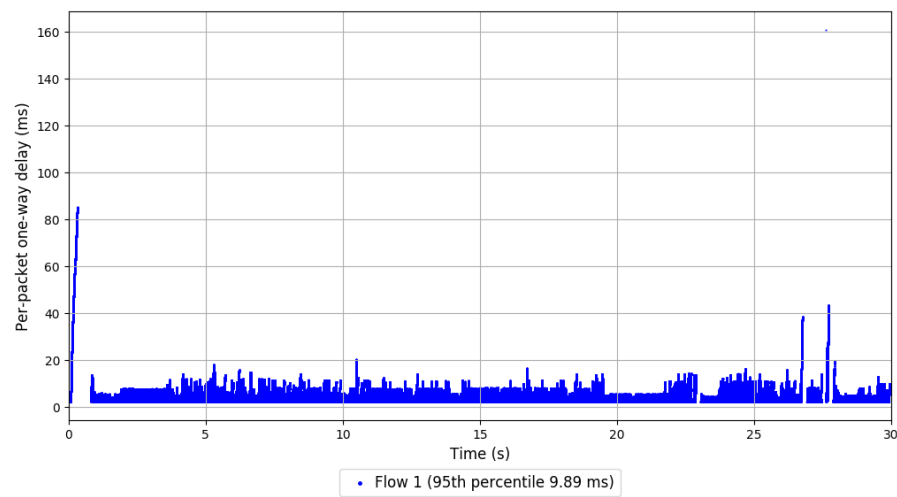
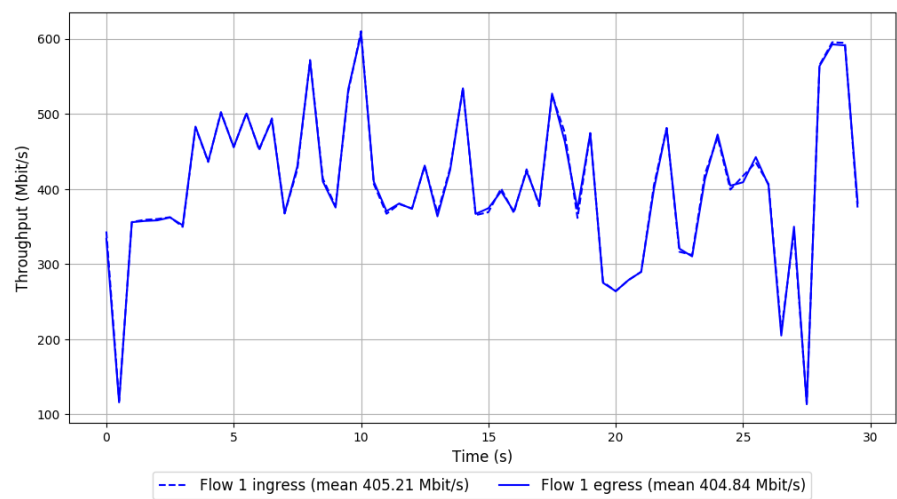


Run 3: Statistics of Verus

Start at: 2017-09-21 13:05:41
End at: 2017-09-21 13:06:11
Local clock offset: 0.296 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2017-09-21 18:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 404.84 Mbit/s
95th percentile per-packet one-way delay: 9.889 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 404.84 Mbit/s
95th percentile per-packet one-way delay: 9.889 ms
Loss rate: 0.07%

Run 3: Report of Verus — Data Link

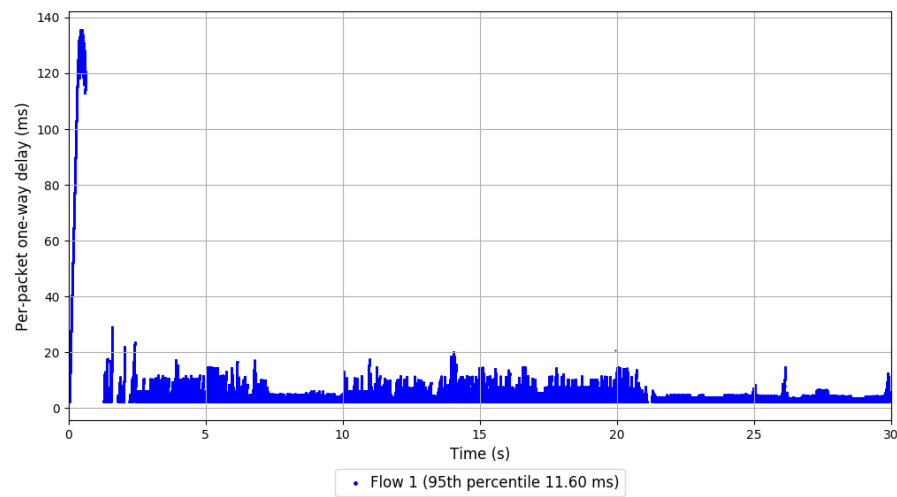
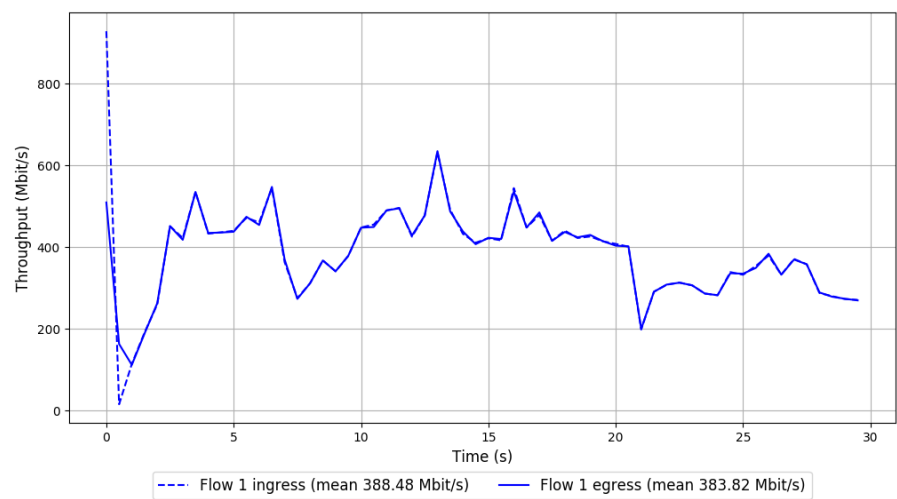


Run 4: Statistics of Verus

Start at: 2017-09-21 13:23:57
End at: 2017-09-21 13:24:27
Local clock offset: 0.238 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2017-09-21 18:03:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 383.82 Mbit/s
95th percentile per-packet one-way delay: 11.596 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 383.82 Mbit/s
95th percentile per-packet one-way delay: 11.596 ms
Loss rate: 1.19%

Run 4: Report of Verus — Data Link

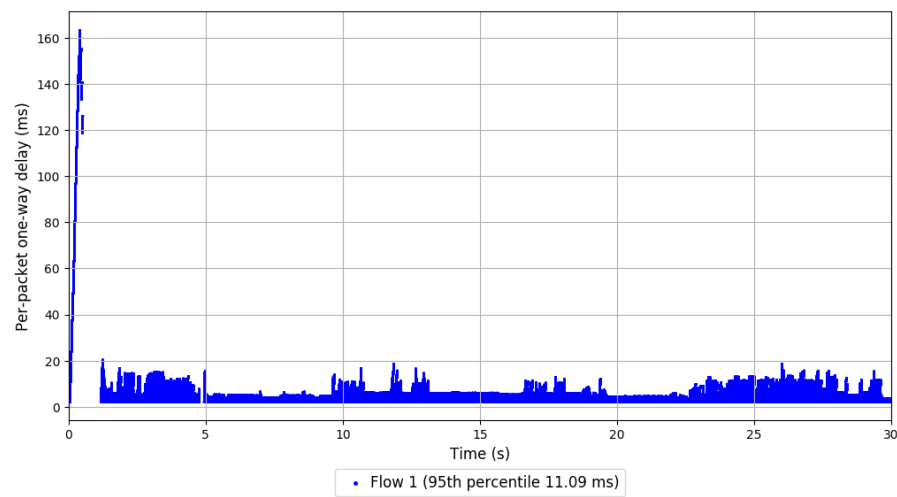
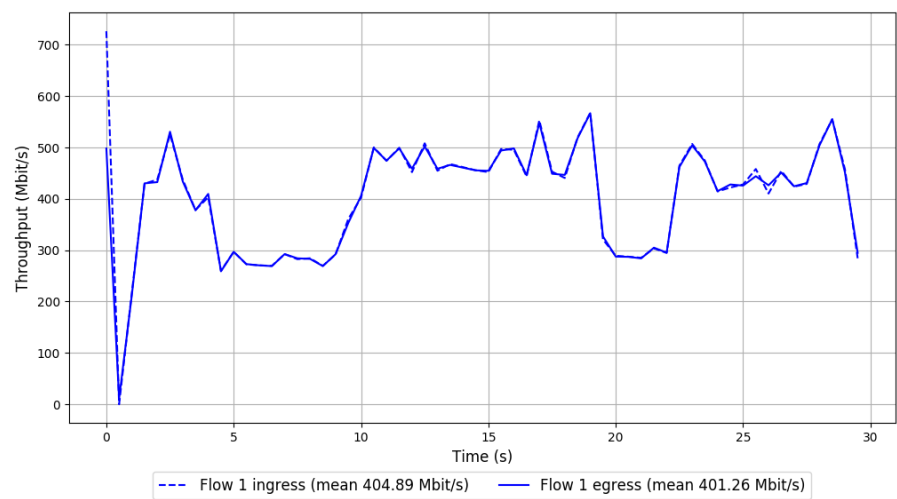


Run 5: Statistics of Verus

Start at: 2017-09-21 13:42:16
End at: 2017-09-21 13:42:46
Local clock offset: 0.164 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2017-09-21 18:03:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 401.26 Mbit/s
95th percentile per-packet one-way delay: 11.086 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 401.26 Mbit/s
95th percentile per-packet one-way delay: 11.086 ms
Loss rate: 0.90%

Run 5: Report of Verus — Data Link

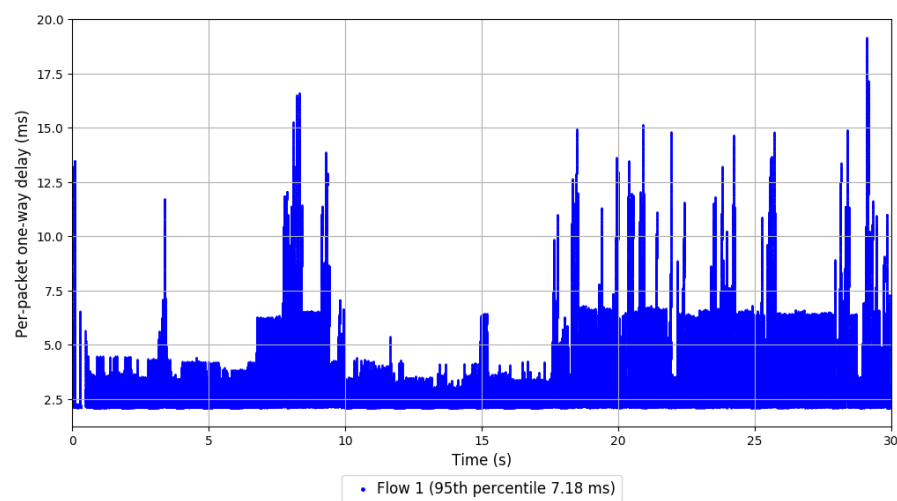
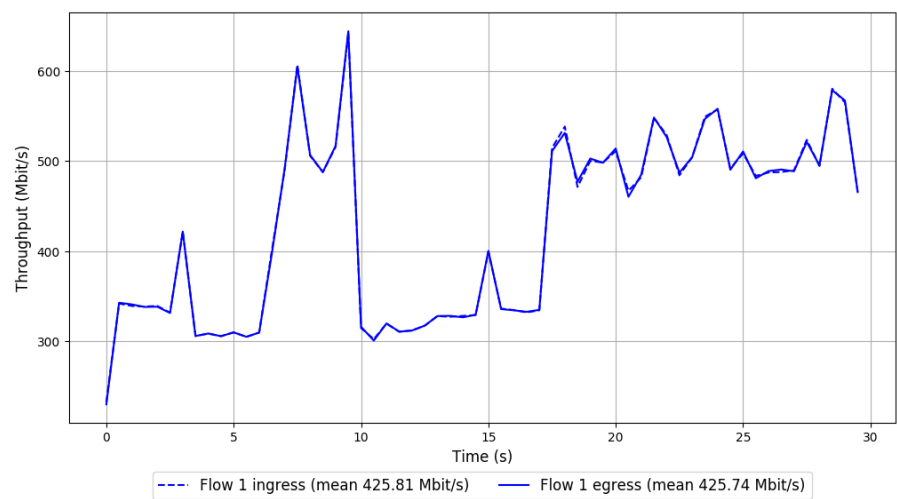


Run 6: Statistics of Verus

Start at: 2017-09-21 14:00:33
End at: 2017-09-21 14:01:03
Local clock offset: 0.12 ms
Remote clock offset: -0.509 ms

Below is generated by plot.py at 2017-09-21 18:05:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 425.74 Mbit/s
95th percentile per-packet one-way delay: 7.184 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 425.74 Mbit/s
95th percentile per-packet one-way delay: 7.184 ms
Loss rate: 0.02%

Run 6: Report of Verus — Data Link

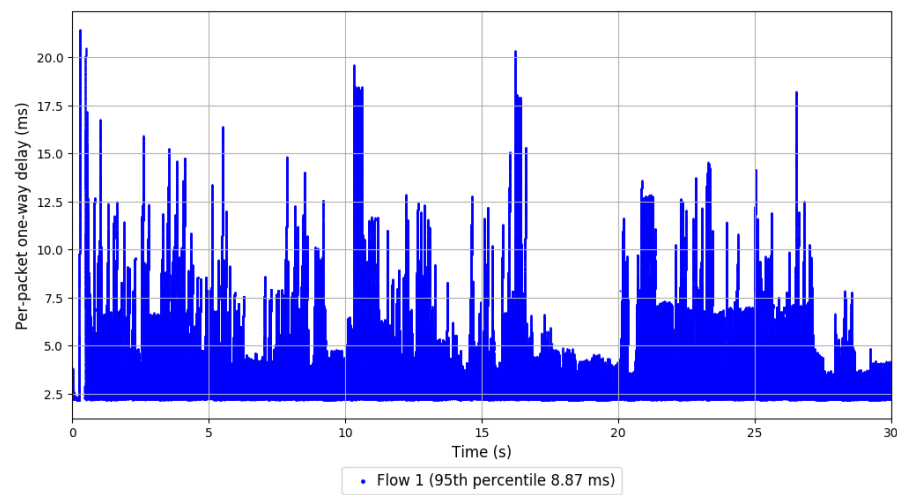
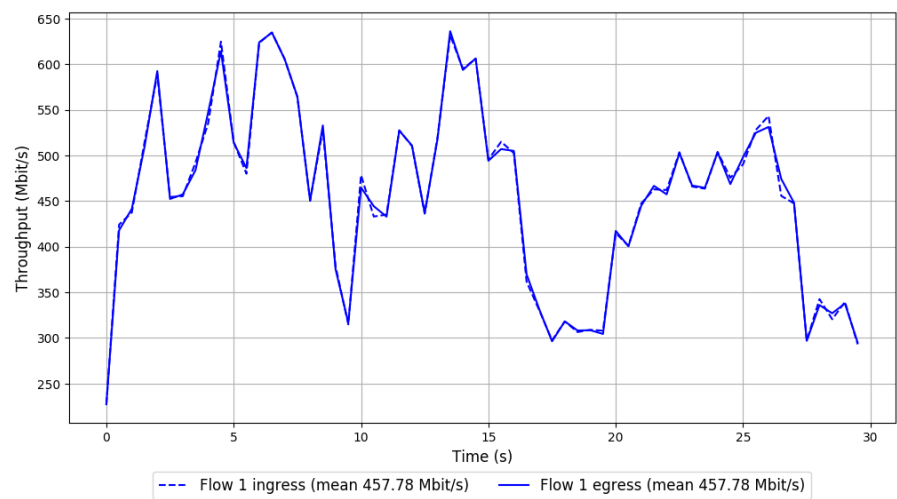


Run 7: Statistics of Verus

Start at: 2017-09-21 14:18:44
End at: 2017-09-21 14:19:14
Local clock offset: 0.077 ms
Remote clock offset: -0.455 ms

Below is generated by plot.py at 2017-09-21 18:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 457.78 Mbit/s
95th percentile per-packet one-way delay: 8.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 457.78 Mbit/s
95th percentile per-packet one-way delay: 8.873 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link

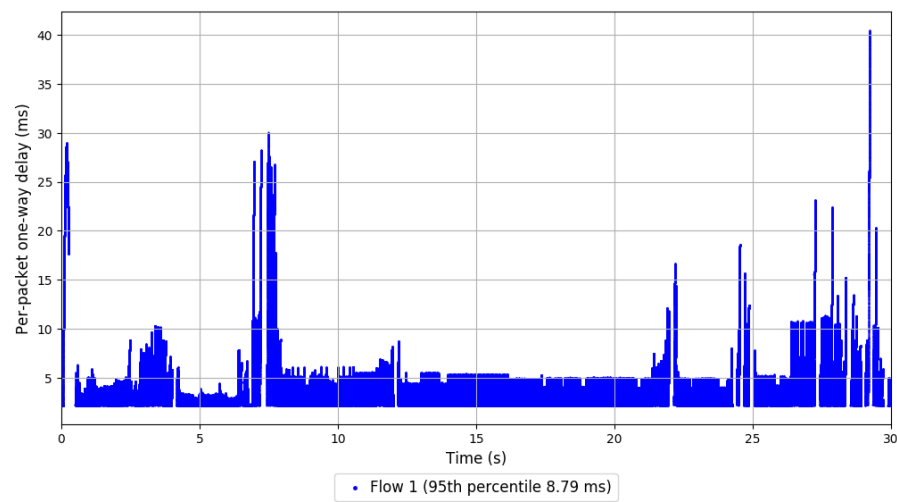
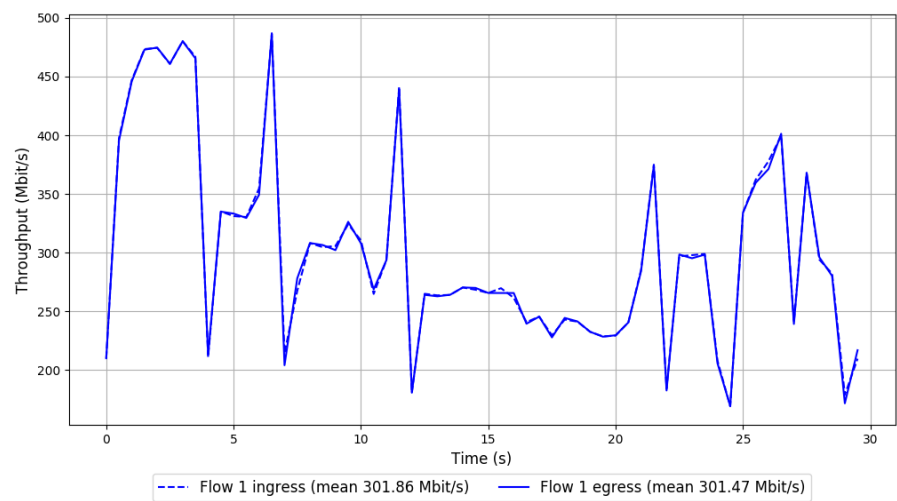


Run 8: Statistics of Verus

Start at: 2017-09-21 14:36:38
End at: 2017-09-21 14:37:08
Local clock offset: 0.004 ms
Remote clock offset: -0.508 ms

Below is generated by plot.py at 2017-09-21 18:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 301.47 Mbit/s
95th percentile per-packet one-way delay: 8.786 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 301.47 Mbit/s
95th percentile per-packet one-way delay: 8.786 ms
Loss rate: 0.13%

Run 8: Report of Verus — Data Link

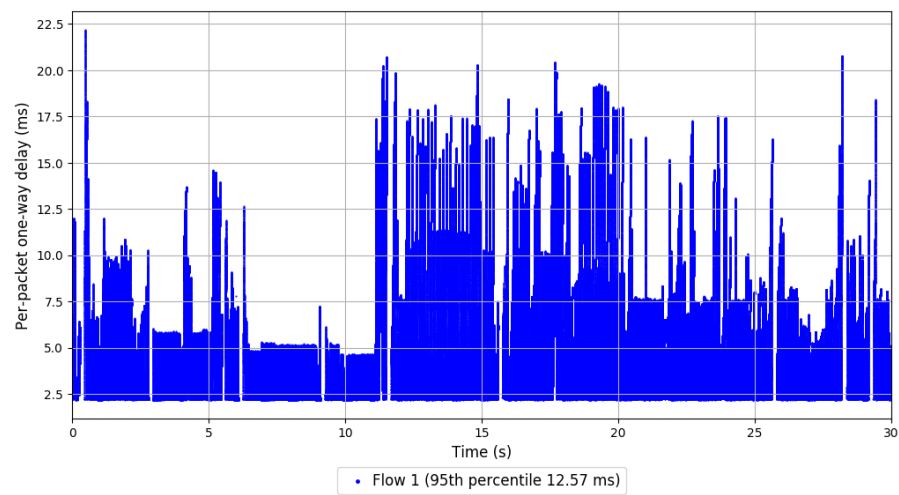
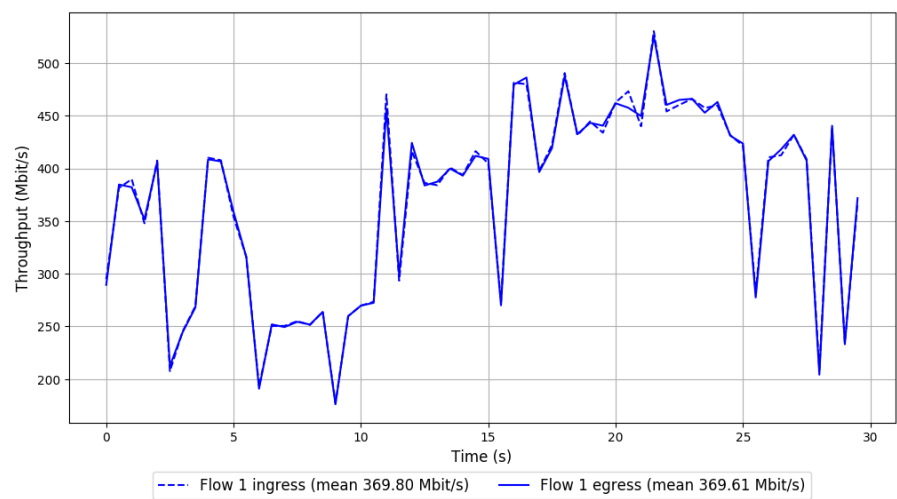


Run 9: Statistics of Verus

Start at: 2017-09-21 14:54:45
End at: 2017-09-21 14:55:15
Local clock offset: -0.067 ms
Remote clock offset: -0.579 ms

Below is generated by plot.py at 2017-09-21 18:08:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 369.61 Mbit/s
95th percentile per-packet one-way delay: 12.568 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 369.61 Mbit/s
95th percentile per-packet one-way delay: 12.568 ms
Loss rate: 0.05%

Run 9: Report of Verus — Data Link

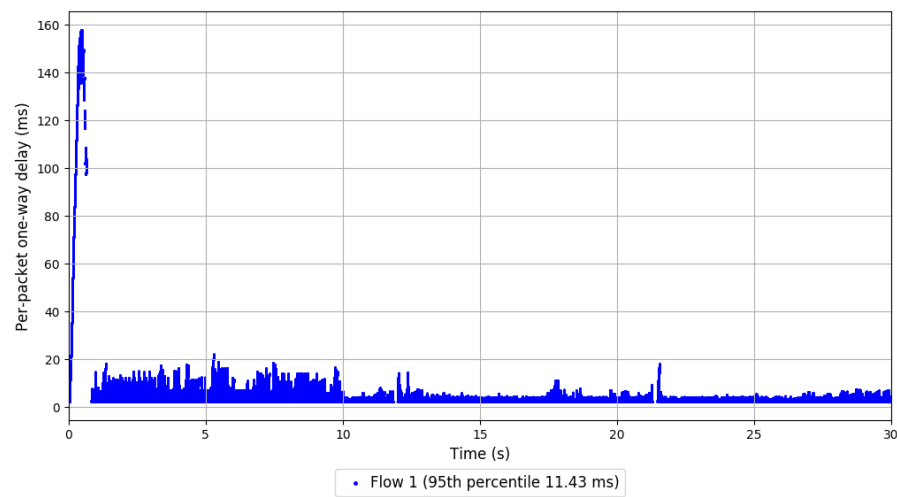
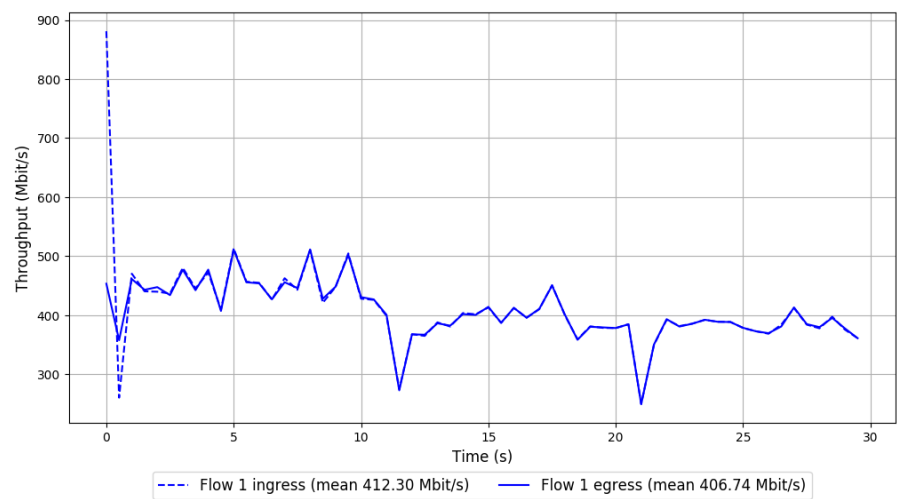


Run 10: Statistics of Verus

Start at: 2017-09-21 15:13:06
End at: 2017-09-21 15:13:36
Local clock offset: -0.124 ms
Remote clock offset: -0.525 ms

Below is generated by plot.py at 2017-09-21 18:09:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 406.74 Mbit/s
95th percentile per-packet one-way delay: 11.433 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 406.74 Mbit/s
95th percentile per-packet one-way delay: 11.433 ms
Loss rate: 1.35%

Run 10: Report of Verus — Data Link

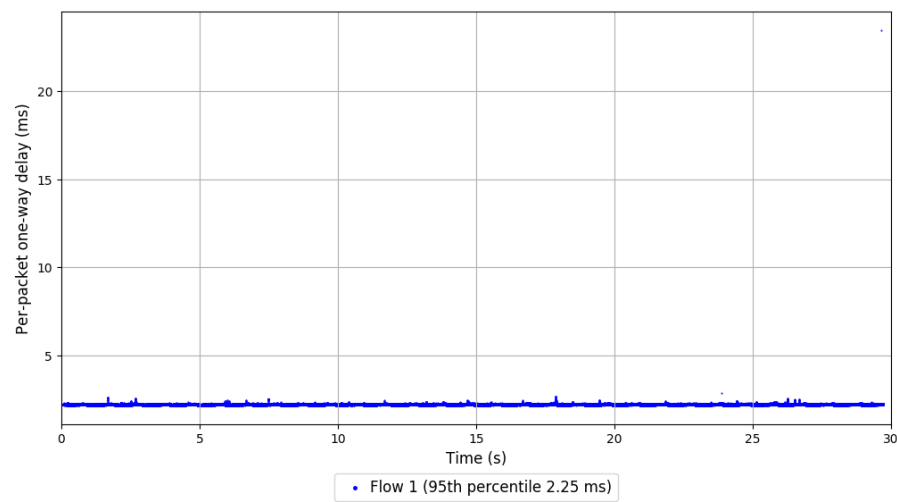
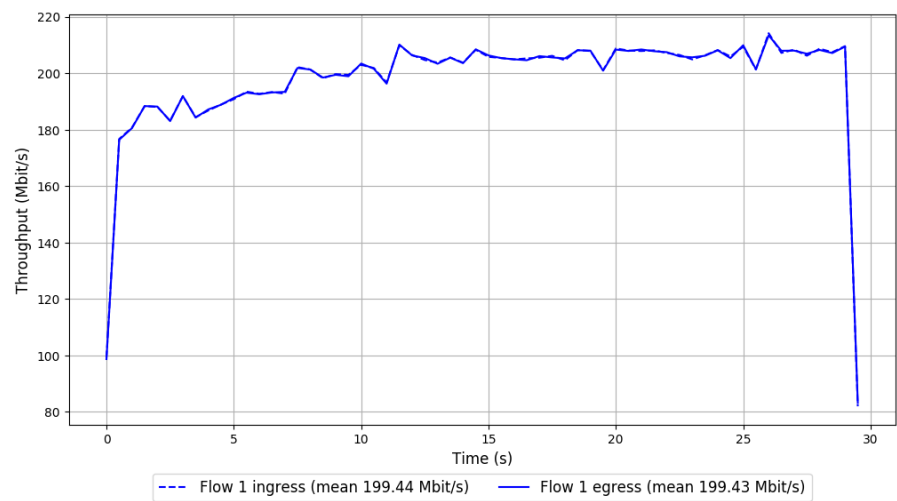


```
Run 1: Statistics of Indigo

Start at: 2017-09-21 12:24:26
End at: 2017-09-21 12:24:56
Local clock offset: 0.334 ms
Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2017-09-21 18:09:13
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.43 Mbit/s
95th percentile per-packet one-way delay: 2.254 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.43 Mbit/s
95th percentile per-packet one-way delay: 2.254 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2017-09-21 12:42:08

End at: 2017-09-21 12:42:38

Local clock offset: 0.353 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2017-09-21 18:09:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.35 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.00%

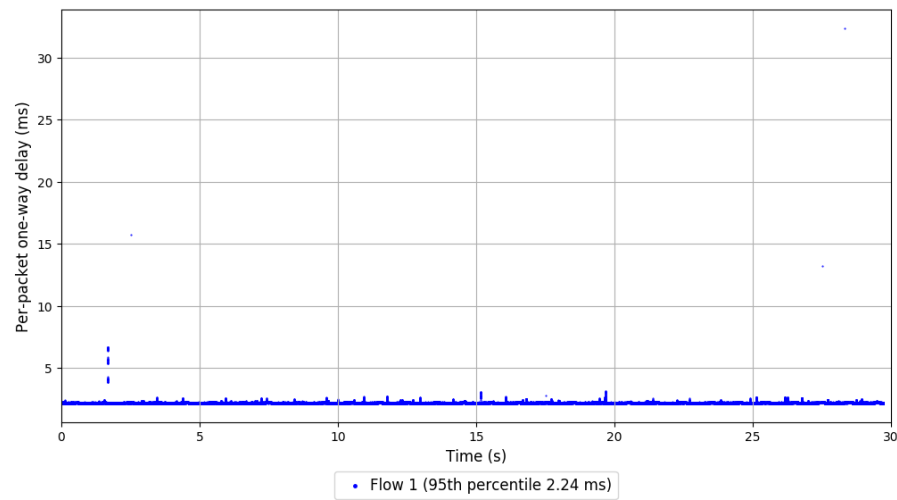
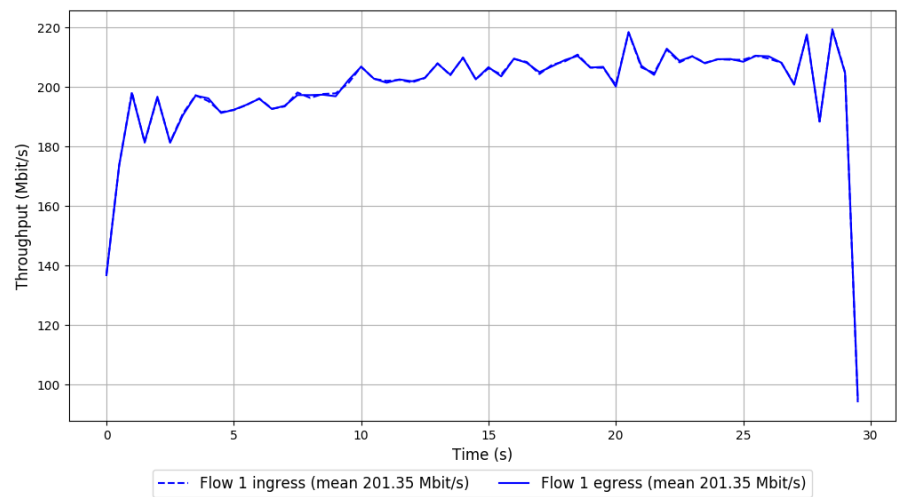
-- Flow 1:

Average throughput: 201.35 Mbit/s

95th percentile per-packet one-way delay: 2.241 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2017-09-21 13:00:17

End at: 2017-09-21 13:00:47

Local clock offset: 0.293 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2017-09-21 18:09:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.56 Mbit/s

95th percentile per-packet one-way delay: 2.290 ms

Loss rate: 0.00%

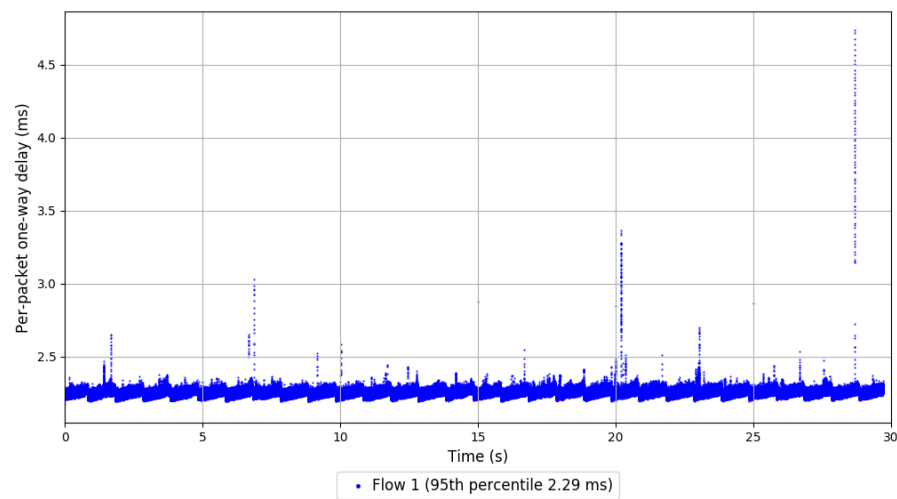
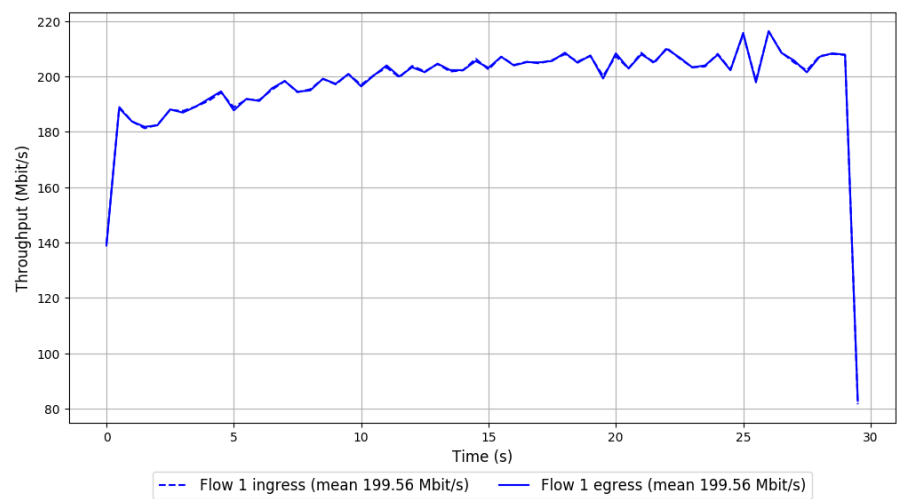
-- Flow 1:

Average throughput: 199.56 Mbit/s

95th percentile per-packet one-way delay: 2.290 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

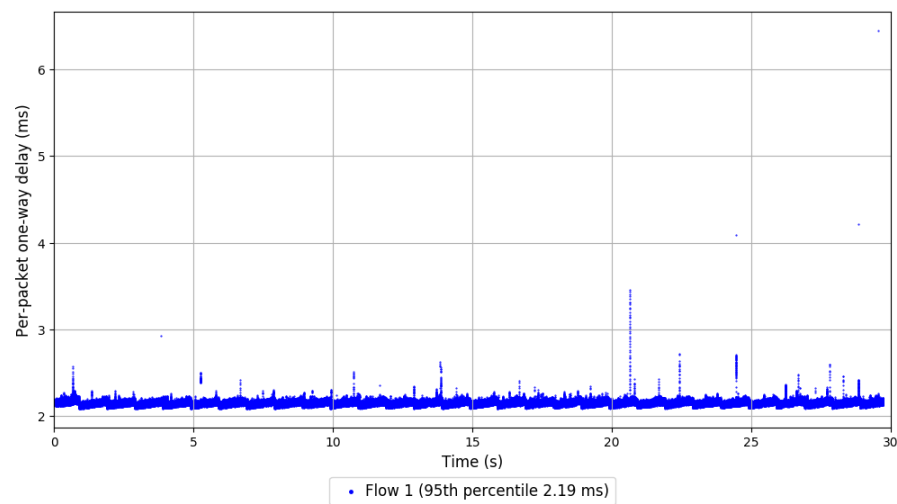
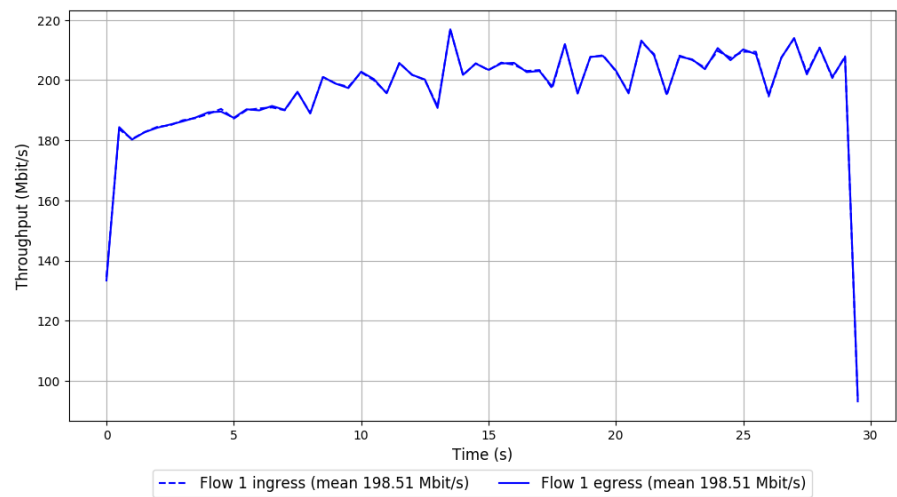


Run 4: Statistics of Indigo

Start at: 2017-09-21 13:18:32
End at: 2017-09-21 13:19:03
Local clock offset: 0.278 ms
Remote clock offset: -0.253 ms

Below is generated by plot.py at 2017-09-21 18:09:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 198.51 Mbit/s
95th percentile per-packet one-way delay: 2.189 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.51 Mbit/s
95th percentile per-packet one-way delay: 2.189 ms
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2017-09-21 13:36:52

End at: 2017-09-21 13:37:22

Local clock offset: 0.235 ms

Remote clock offset: -0.284 ms

Below is generated by plot.py at 2017-09-21 18:09:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.81 Mbit/s

95th percentile per-packet one-way delay: 2.258 ms

Loss rate: 0.00%

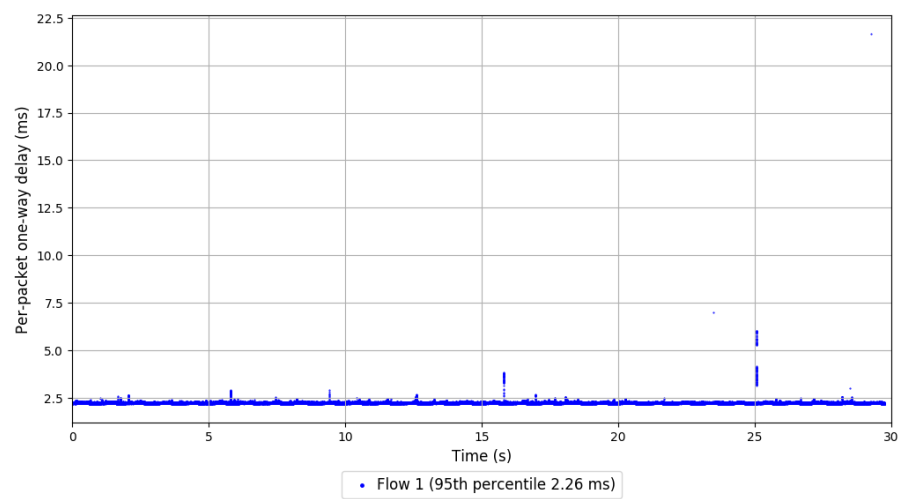
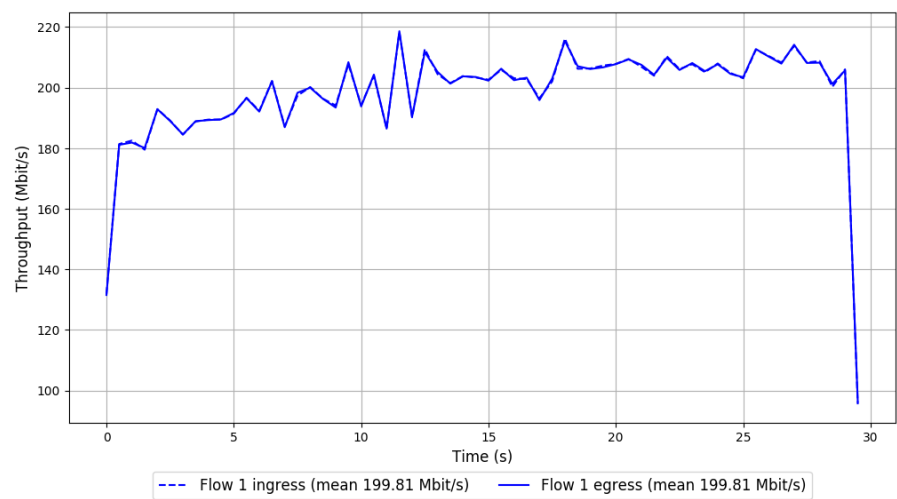
-- Flow 1:

Average throughput: 199.81 Mbit/s

95th percentile per-packet one-way delay: 2.258 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2017-09-21 13:55:14

End at: 2017-09-21 13:55:44

Local clock offset: 0.131 ms

Remote clock offset: -0.421 ms

Below is generated by plot.py at 2017-09-21 18:09:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.68 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.00%

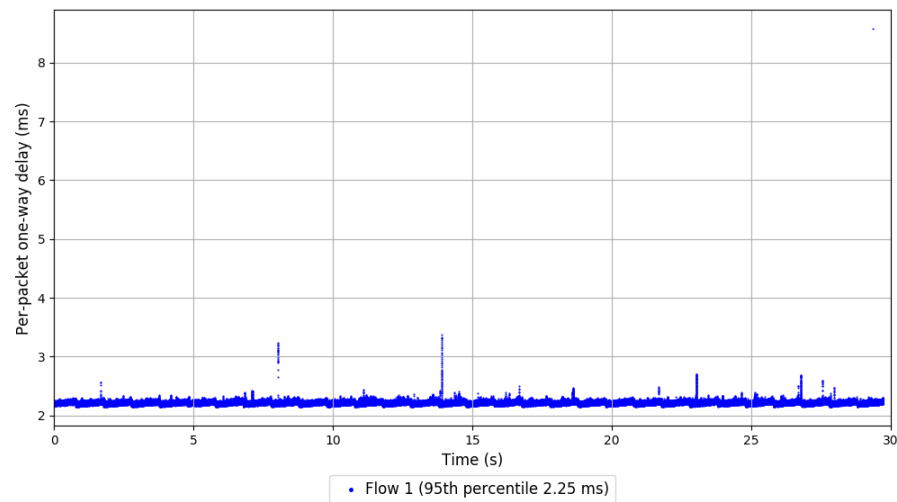
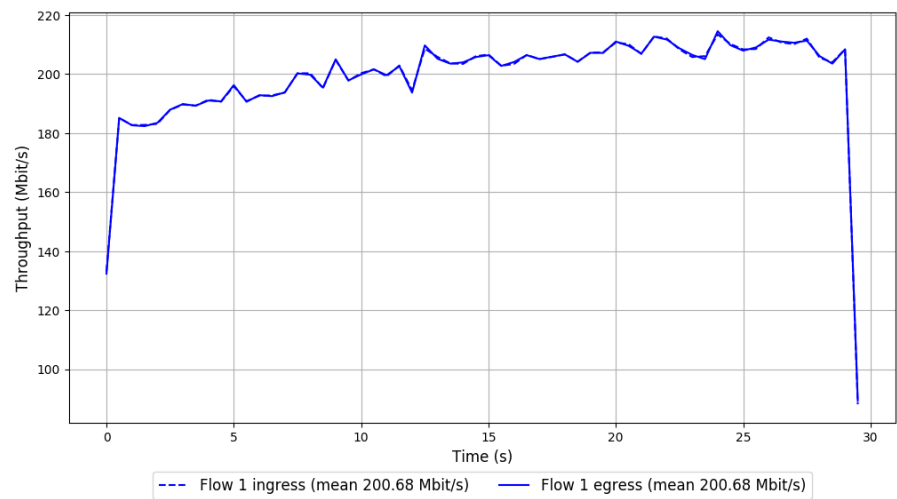
-- Flow 1:

Average throughput: 200.68 Mbit/s

95th percentile per-packet one-way delay: 2.249 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

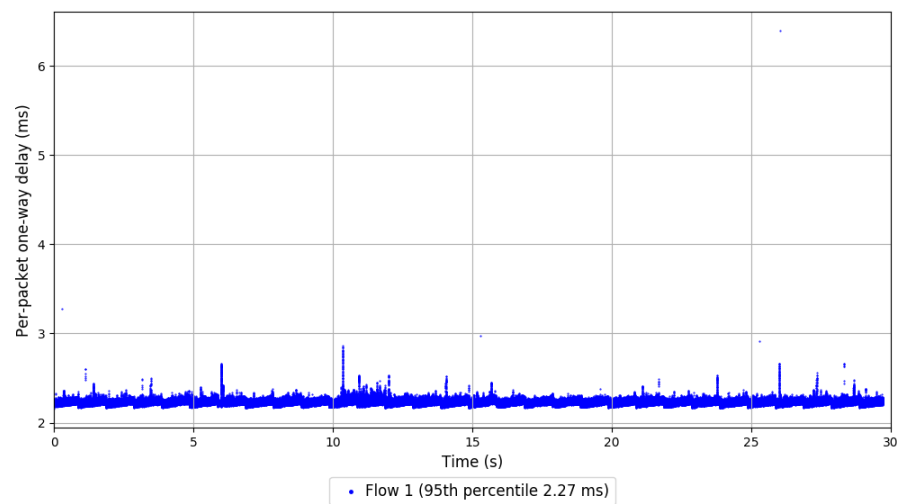
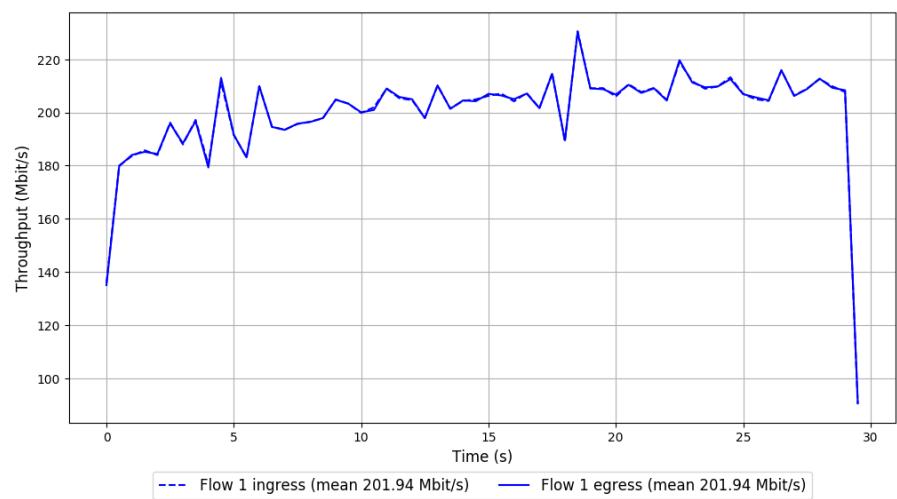


Run 7: Statistics of Indigo

Start at: 2017-09-21 14:13:24
End at: 2017-09-21 14:13:54
Local clock offset: 0.13 ms
Remote clock offset: -0.397 ms

Below is generated by plot.py at 2017-09-21 18:09:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.94 Mbit/s
95th percentile per-packet one-way delay: 2.266 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 201.94 Mbit/s
95th percentile per-packet one-way delay: 2.266 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2017-09-21 14:31:35

End at: 2017-09-21 14:32:05

Local clock offset: -0.034 ms

Remote clock offset: -0.56 ms

Below is generated by plot.py at 2017-09-21 18:09:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.37 Mbit/s

95th percentile per-packet one-way delay: 2.276 ms

Loss rate: 0.00%

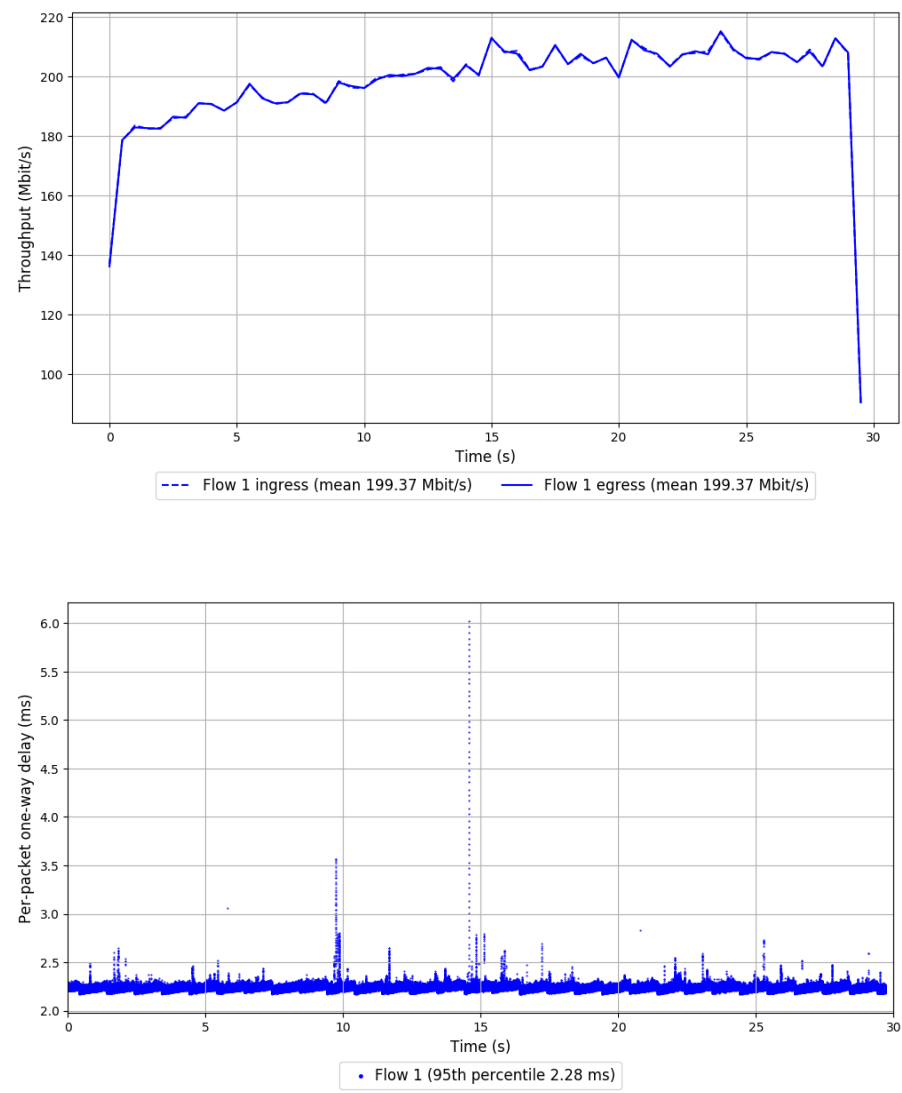
-- Flow 1:

Average throughput: 199.37 Mbit/s

95th percentile per-packet one-way delay: 2.276 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

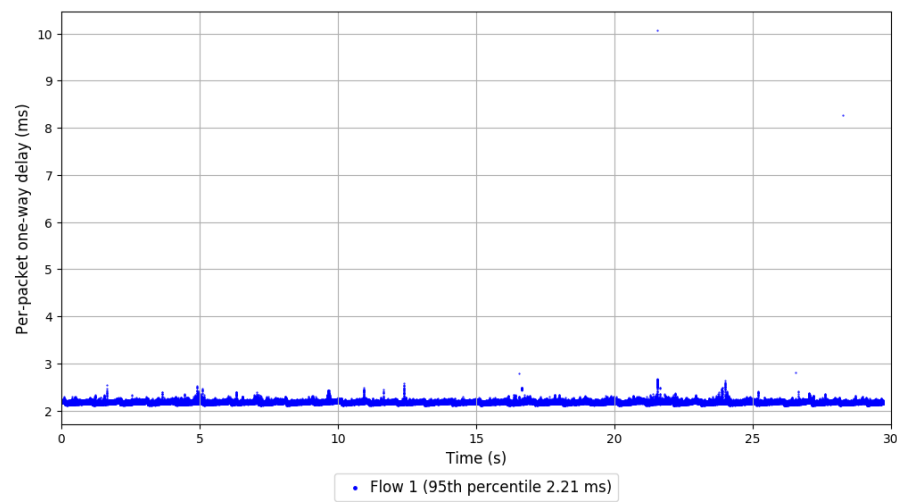
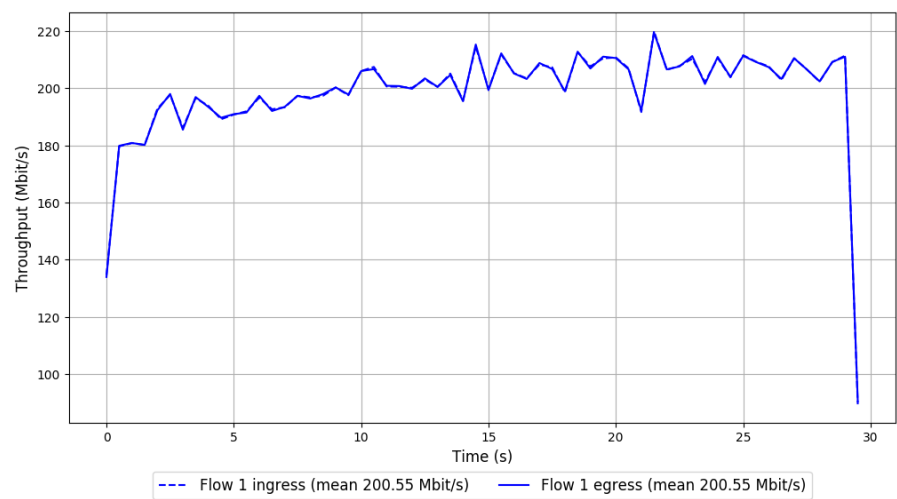


Run 9: Statistics of Indigo

Start at: 2017-09-21 14:49:24
End at: 2017-09-21 14:49:54
Local clock offset: -0.063 ms
Remote clock offset: -0.629 ms

Below is generated by plot.py at 2017-09-21 18:11:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 200.55 Mbit/s
95th percentile per-packet one-way delay: 2.213 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 200.55 Mbit/s
95th percentile per-packet one-way delay: 2.213 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2017-09-21 15:07:41

End at: 2017-09-21 15:08:11

Local clock offset: -0.22 ms

Remote clock offset: -0.527 ms

Below is generated by plot.py at 2017-09-21 18:11:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.00 Mbit/s

95th percentile per-packet one-way delay: 2.403 ms

Loss rate: 0.00%

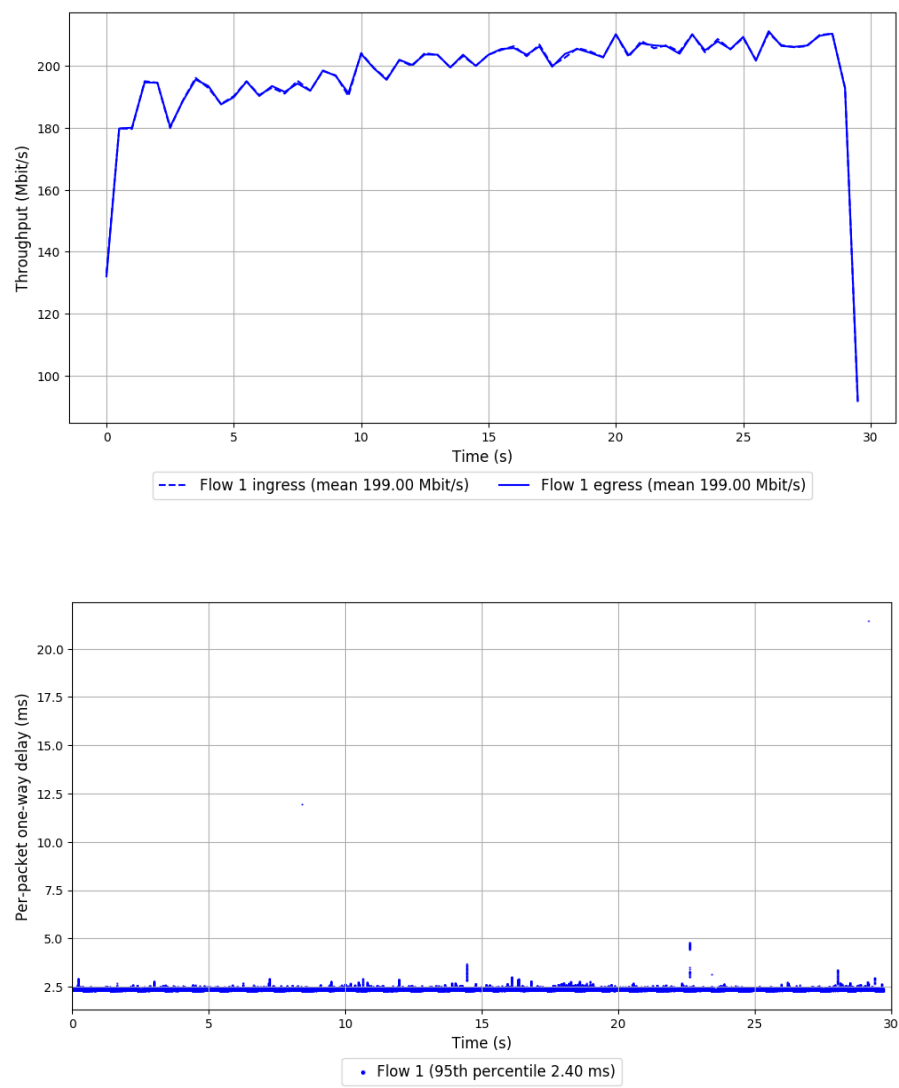
-- Flow 1:

Average throughput: 199.00 Mbit/s

95th percentile per-packet one-way delay: 2.403 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

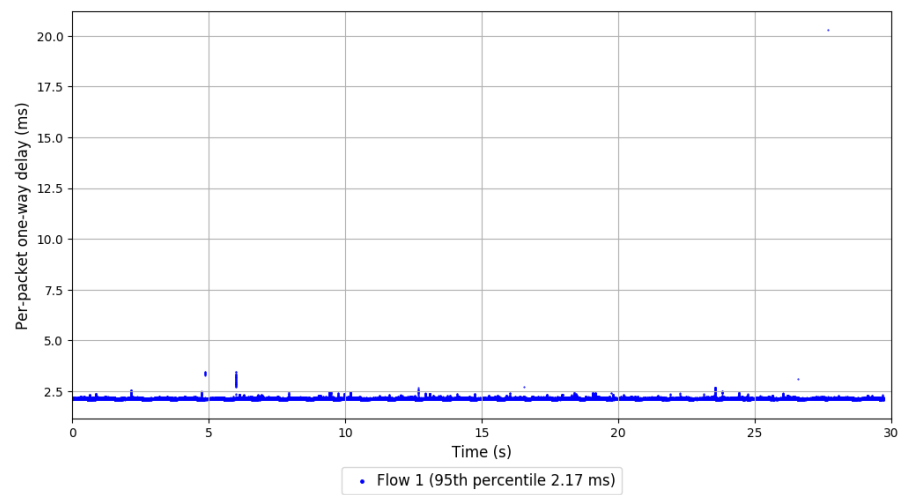
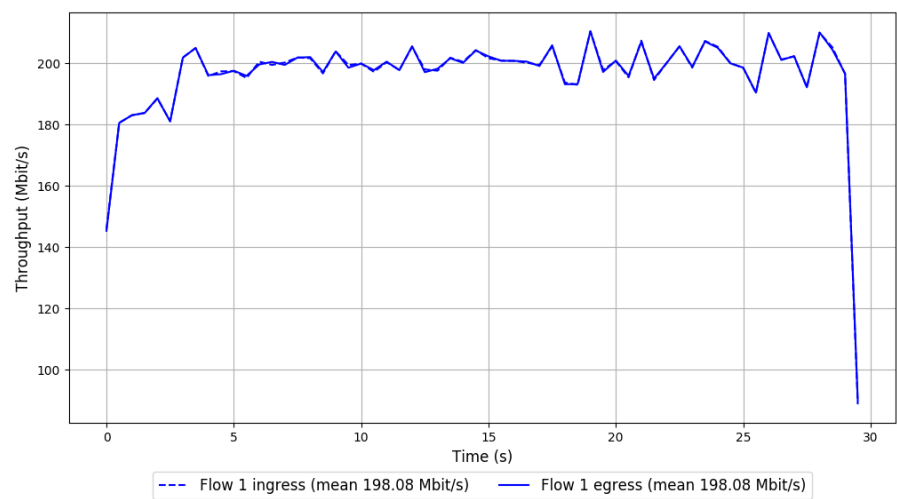


```
Run 1: Statistics of Indigo-calib

Start at: 2017-09-21 12:33:30
End at: 2017-09-21 12:34:00
Local clock offset: 0.355 ms
Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2017-09-21 18:11:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 198.08 Mbit/s
95th percentile per-packet one-way delay: 2.173 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 198.08 Mbit/s
95th percentile per-packet one-way delay: 2.173 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo-calib — Data Link

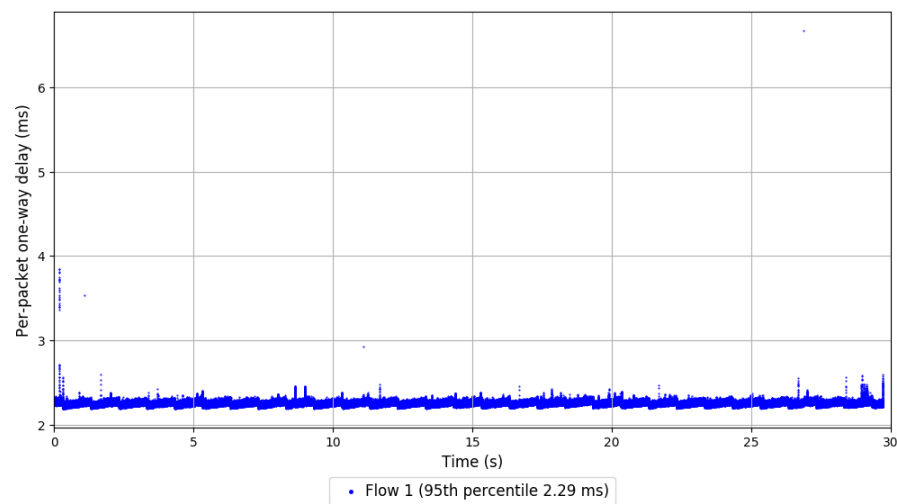
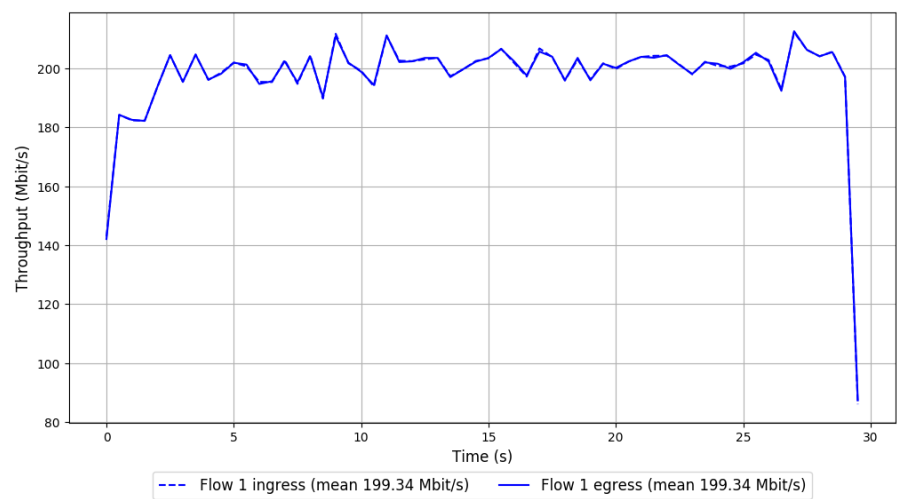


```
Run 2: Statistics of Indigo-calib

Start at: 2017-09-21 12:51:10
End at: 2017-09-21 12:51:40
Local clock offset: 0.217 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2017-09-21 18:11:54
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.34 Mbit/s
95th percentile per-packet one-way delay: 2.288 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.34 Mbit/s
95th percentile per-packet one-way delay: 2.288 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-calib — Data Link



Run 3: Statistics of Indigo-calib

Start at: 2017-09-21 13:09:26

End at: 2017-09-21 13:09:56

Local clock offset: 0.274 ms

Remote clock offset: -0.176 ms

Below is generated by plot.py at 2017-09-21 18:12:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.82 Mbit/s

95th percentile per-packet one-way delay: 2.215 ms

Loss rate: 0.00%

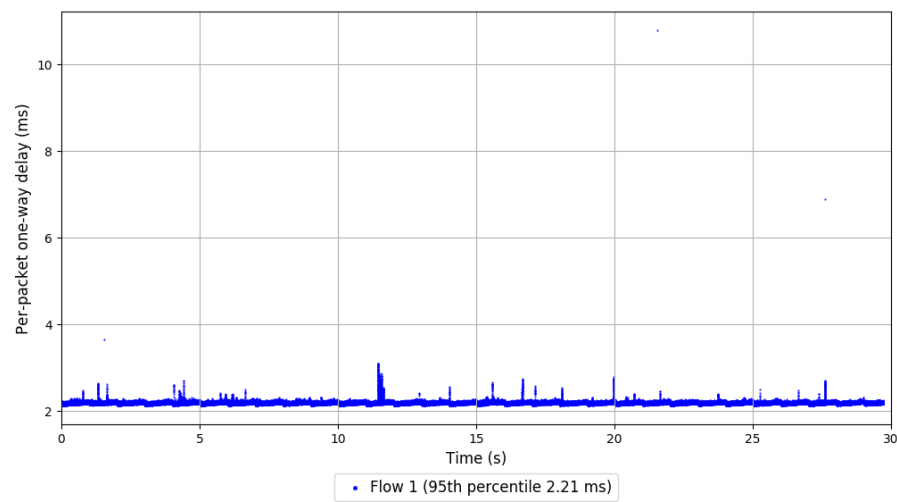
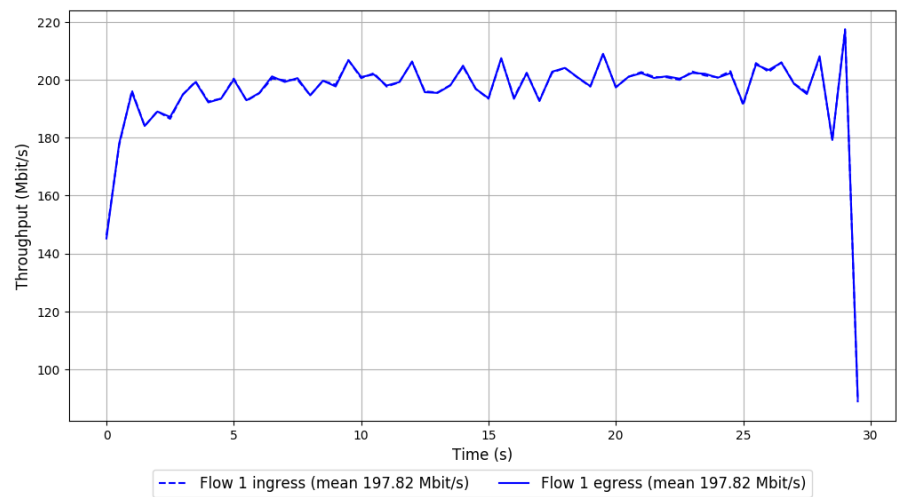
-- Flow 1:

Average throughput: 197.82 Mbit/s

95th percentile per-packet one-way delay: 2.215 ms

Loss rate: 0.00%

Run 3: Report of Indigo-calib — Data Link



Run 4: Statistics of Indigo-calib

Start at: 2017-09-21 13:27:43

End at: 2017-09-21 13:28:13

Local clock offset: 0.237 ms

Remote clock offset: -0.252 ms

Below is generated by plot.py at 2017-09-21 18:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.56 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.00%

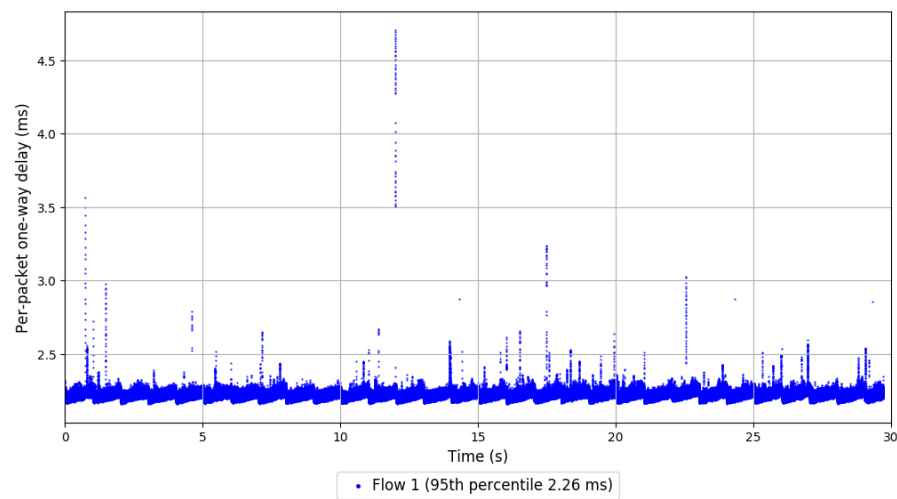
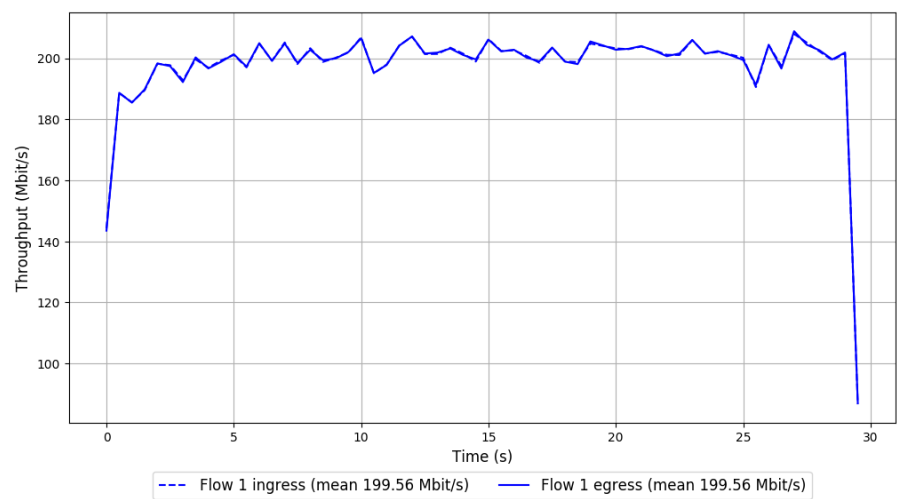
-- Flow 1:

Average throughput: 199.56 Mbit/s

95th percentile per-packet one-way delay: 2.263 ms

Loss rate: 0.00%

Run 4: Report of Indigo-calib — Data Link



Run 5: Statistics of Indigo-calib

Start at: 2017-09-21 13:46:03

End at: 2017-09-21 13:46:33

Local clock offset: 0.132 ms

Remote clock offset: -0.391 ms

Below is generated by plot.py at 2017-09-21 18:12:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.92 Mbit/s

95th percentile per-packet one-way delay: 2.262 ms

Loss rate: 0.00%

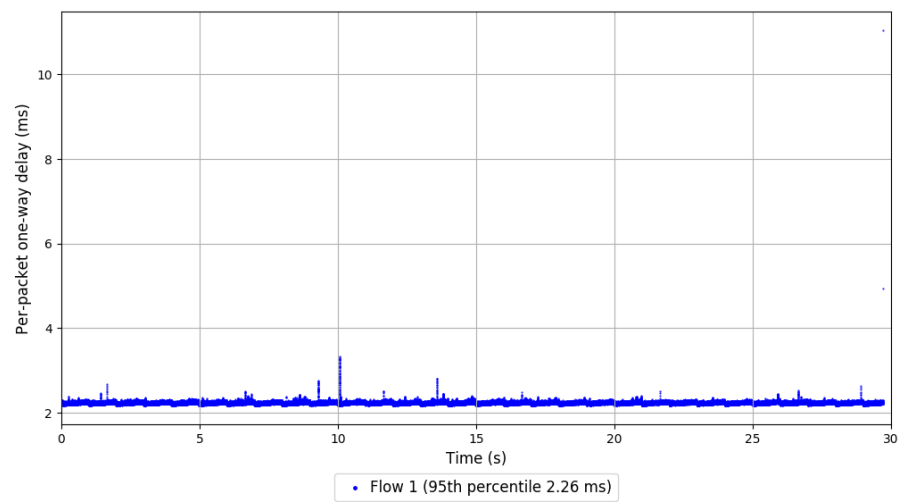
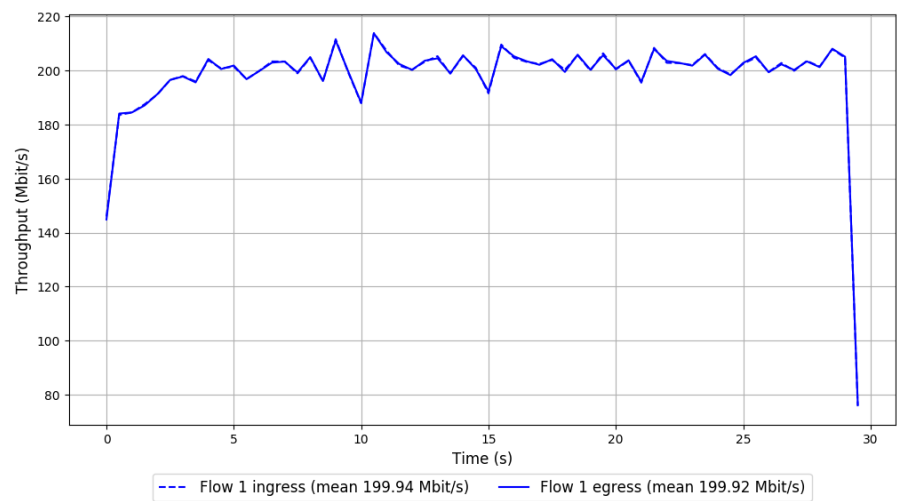
-- Flow 1:

Average throughput: 199.92 Mbit/s

95th percentile per-packet one-way delay: 2.262 ms

Loss rate: 0.00%

Run 5: Report of Indigo-calib — Data Link



Run 6: Statistics of Indigo-calib

Start at: 2017-09-21 14:04:20

End at: 2017-09-21 14:04:50

Local clock offset: 0.104 ms

Remote clock offset: -0.435 ms

Below is generated by plot.py at 2017-09-21 18:12:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.75 Mbit/s

95th percentile per-packet one-way delay: 2.266 ms

Loss rate: 0.00%

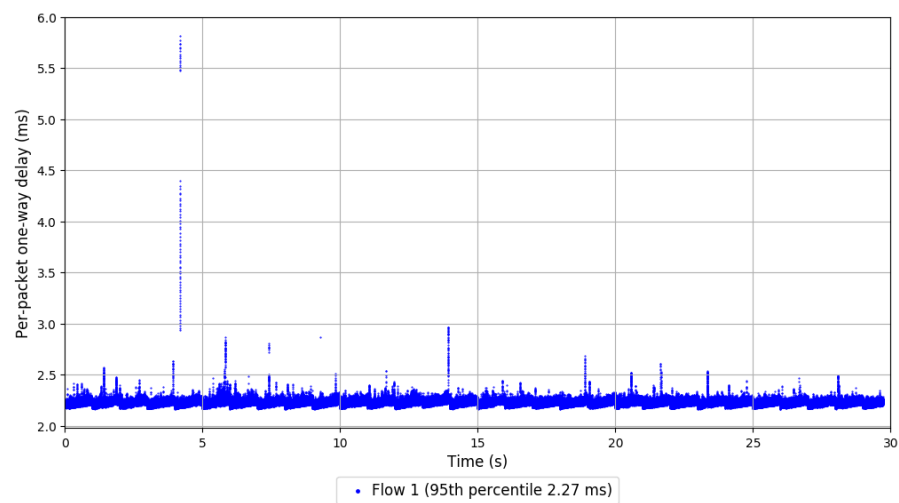
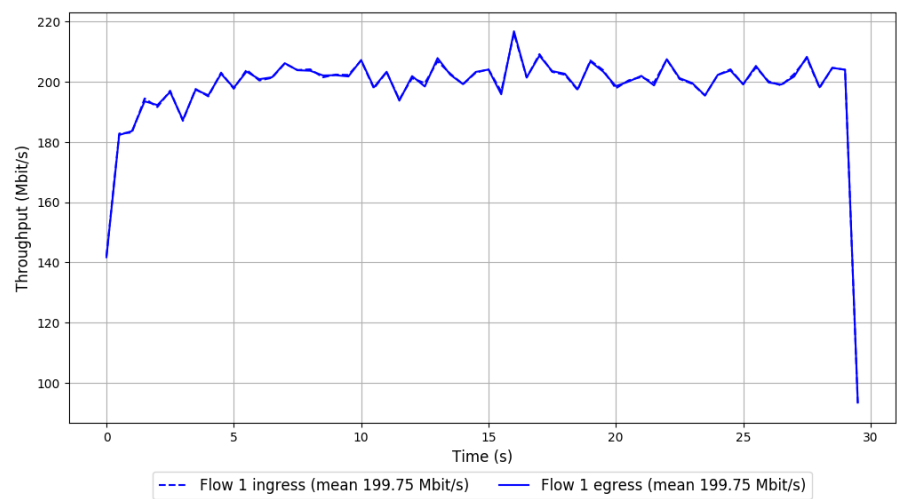
-- Flow 1:

Average throughput: 199.75 Mbit/s

95th percentile per-packet one-way delay: 2.266 ms

Loss rate: 0.00%

Run 6: Report of Indigo-calib — Data Link

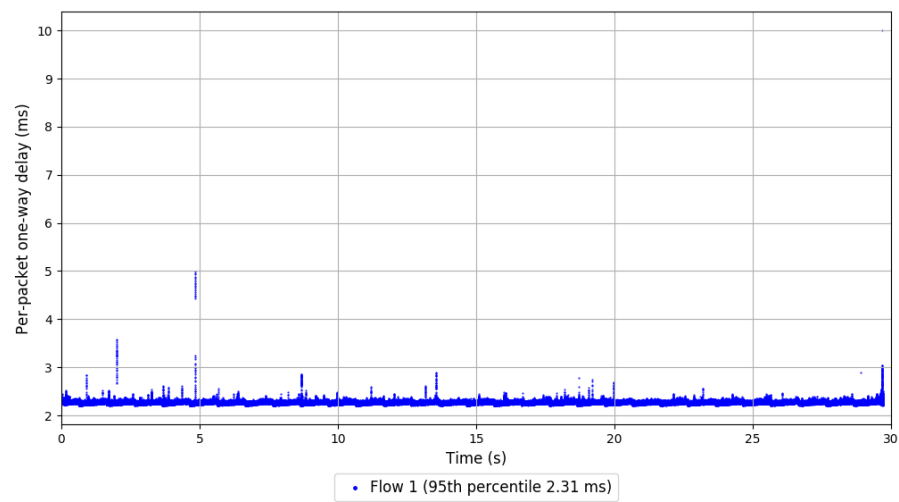
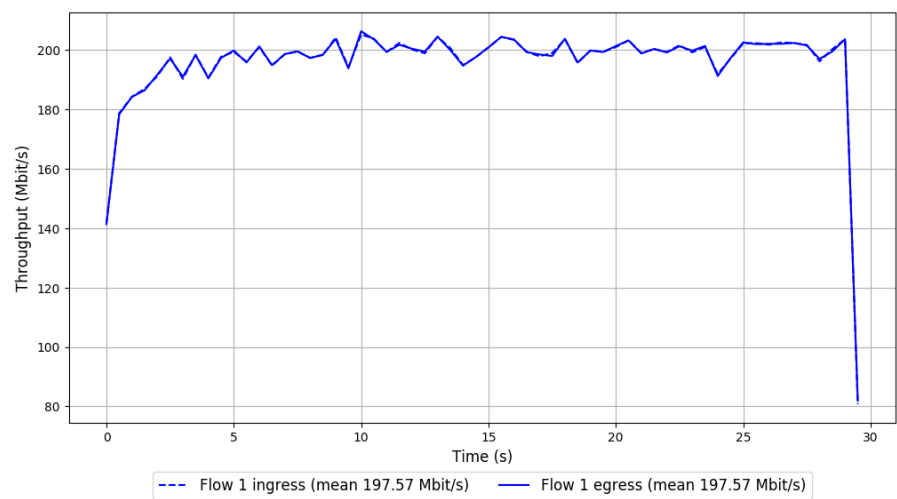


Run 7: Statistics of Indigo-calib

Start at: 2017-09-21 14:22:32
End at: 2017-09-21 14:23:02
Local clock offset: 0.02 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2017-09-21 18:13:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.57 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.57 Mbit/s
95th percentile per-packet one-way delay: 2.310 ms
Loss rate: 0.00%

Run 7: Report of Indigo-calib — Data Link

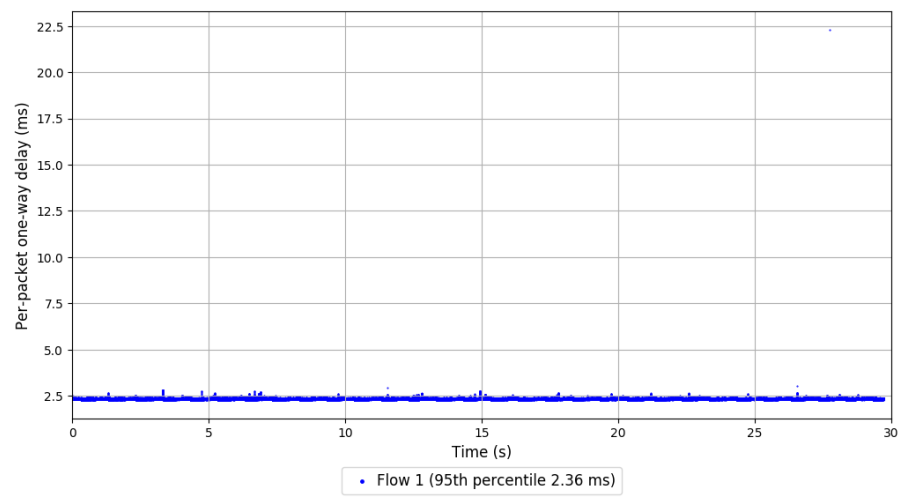
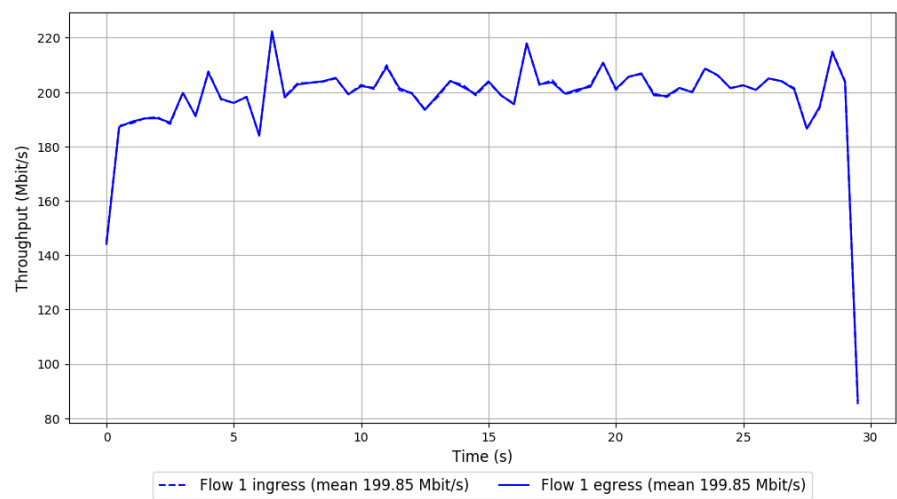


Run 8: Statistics of Indigo-calib

Start at: 2017-09-21 14:40:19
End at: 2017-09-21 14:40:49
Local clock offset: -0.114 ms
Remote clock offset: -0.542 ms

Below is generated by plot.py at 2017-09-21 18:14:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 199.85 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.85 Mbit/s
95th percentile per-packet one-way delay: 2.363 ms
Loss rate: 0.00%

Run 8: Report of Indigo-calib — Data Link

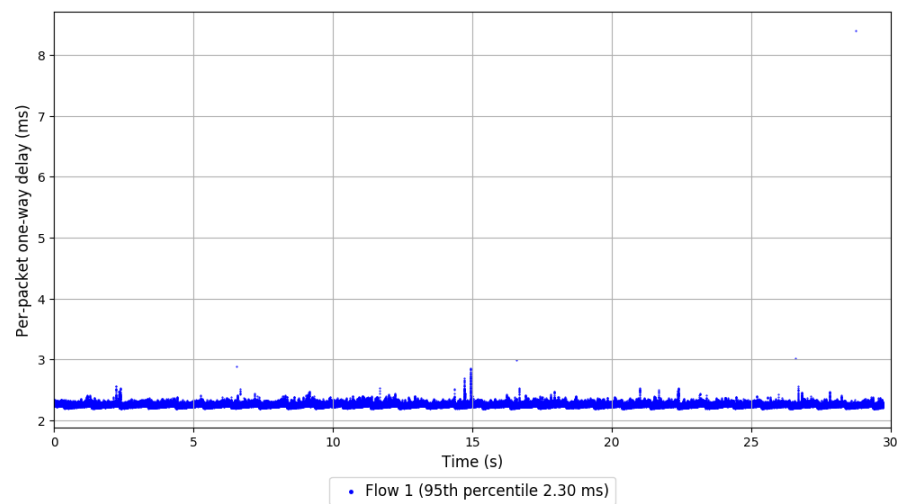
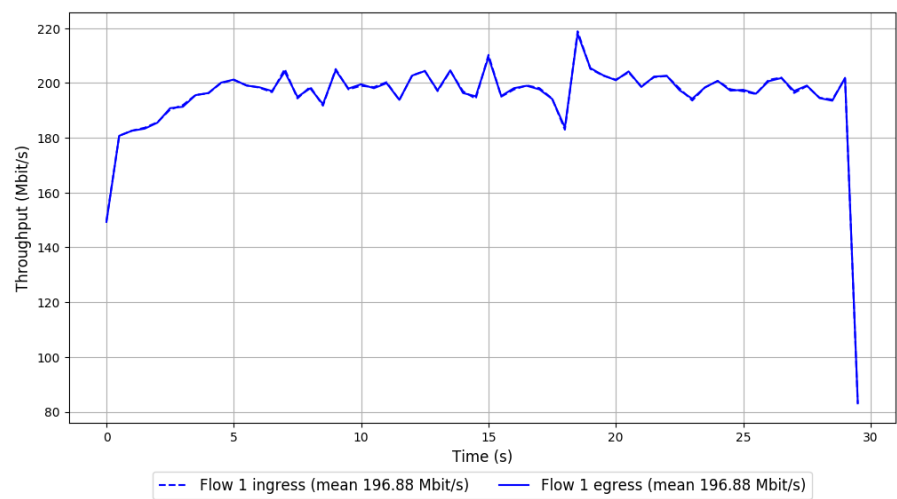


Run 9: Statistics of Indigo-calib

Start at: 2017-09-21 14:58:30
End at: 2017-09-21 14:59:00
Local clock offset: -0.103 ms
Remote clock offset: -0.564 ms

Below is generated by plot.py at 2017-09-21 18:14:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.88 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.88 Mbit/s
95th percentile per-packet one-way delay: 2.297 ms
Loss rate: 0.00%

Run 9: Report of Indigo-calib — Data Link



Run 10: Statistics of Indigo-calib

Start at: 2017-09-21 15:16:52

End at: 2017-09-21 15:17:22

Local clock offset: -0.157 ms

Remote clock offset: -0.503 ms

Below is generated by plot.py at 2017-09-21 18:14:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 195.16 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

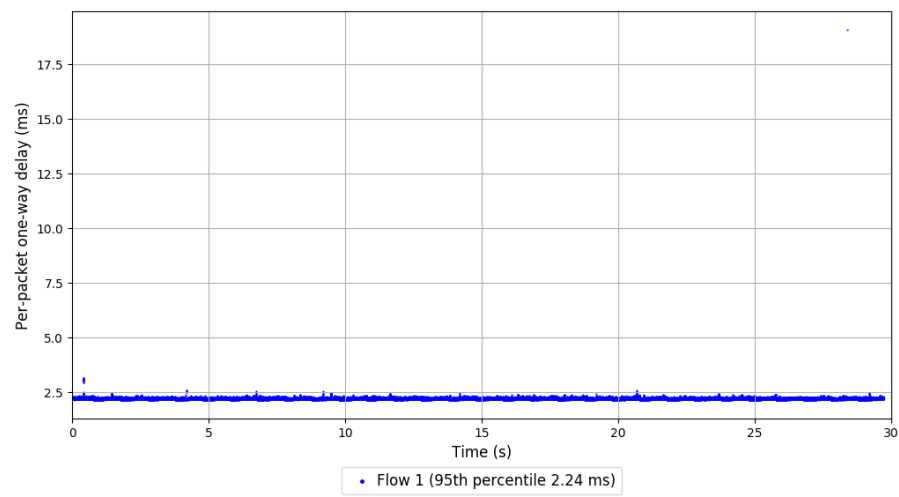
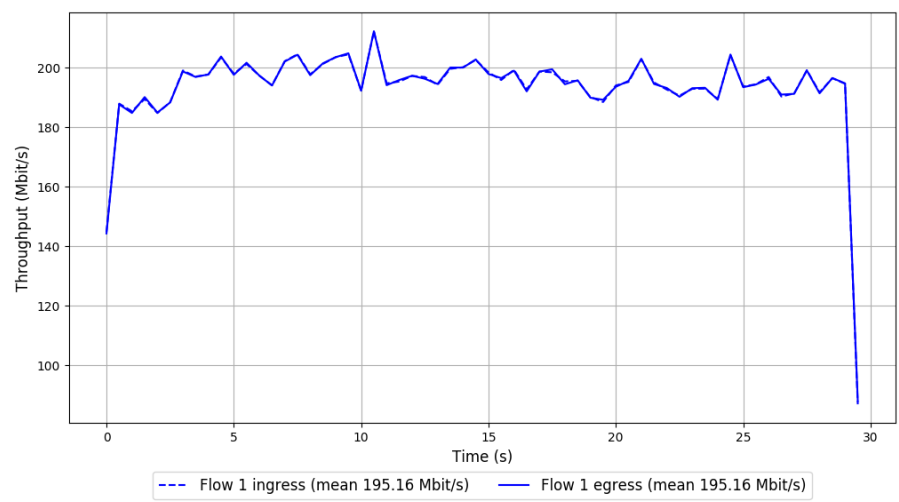
-- Flow 1:

Average throughput: 195.16 Mbit/s

95th percentile per-packet one-way delay: 2.244 ms

Loss rate: 0.00%

Run 10: Report of Indigo-calib — Data Link

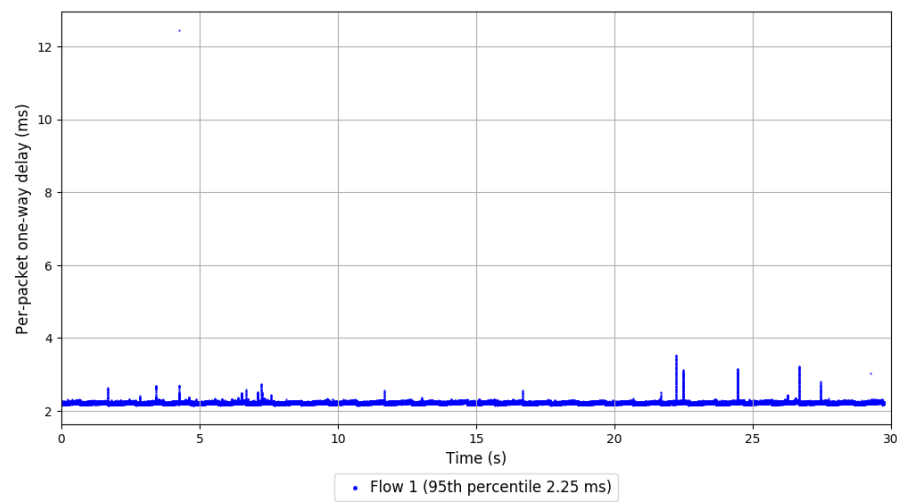
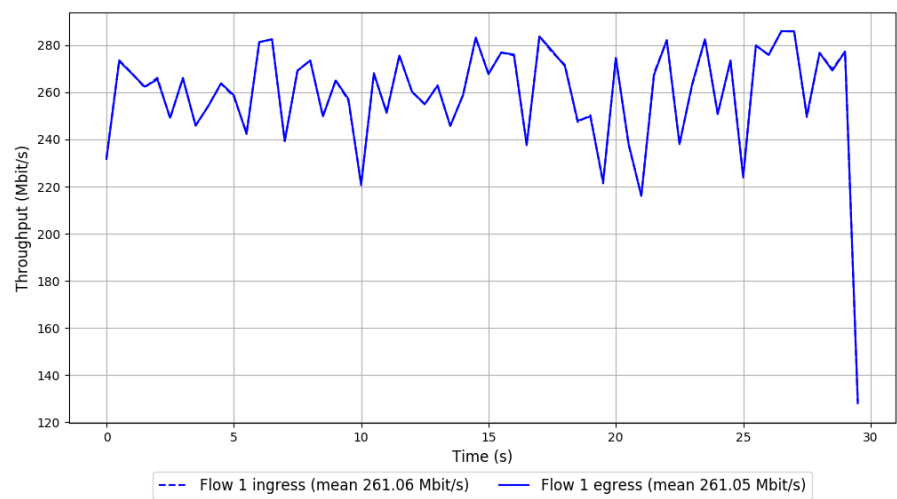


```
Run 1: Statistics of Indigo-delay

Start at: 2017-09-21 12:31:08
End at: 2017-09-21 12:31:38
Local clock offset: 0.338 ms
Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2017-09-21 18:15:36
# Datalink statistics
-- Total of 1 flow:
Average throughput: 261.05 Mbit/s
95th percentile per-packet one-way delay: 2.251 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 261.05 Mbit/s
95th percentile per-packet one-way delay: 2.251 ms
Loss rate: 0.00%
```

Run 1: Report of Indigo-delay — Data Link

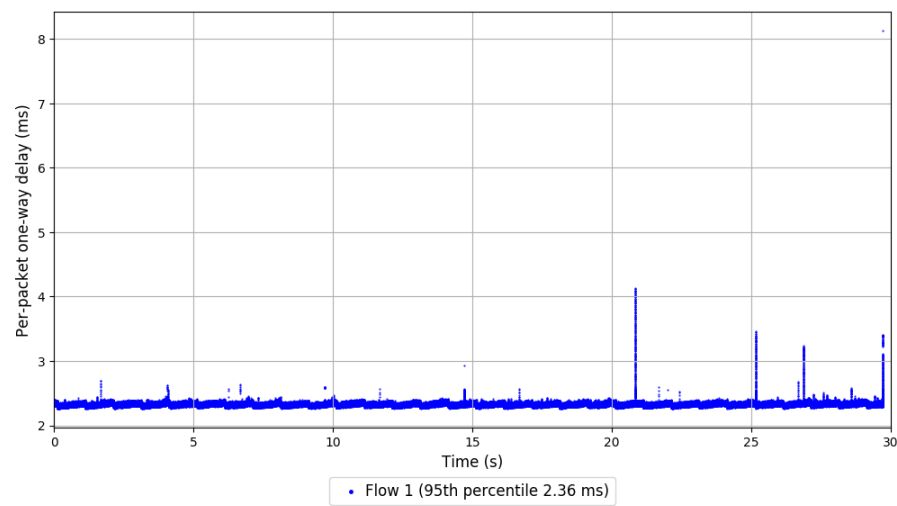
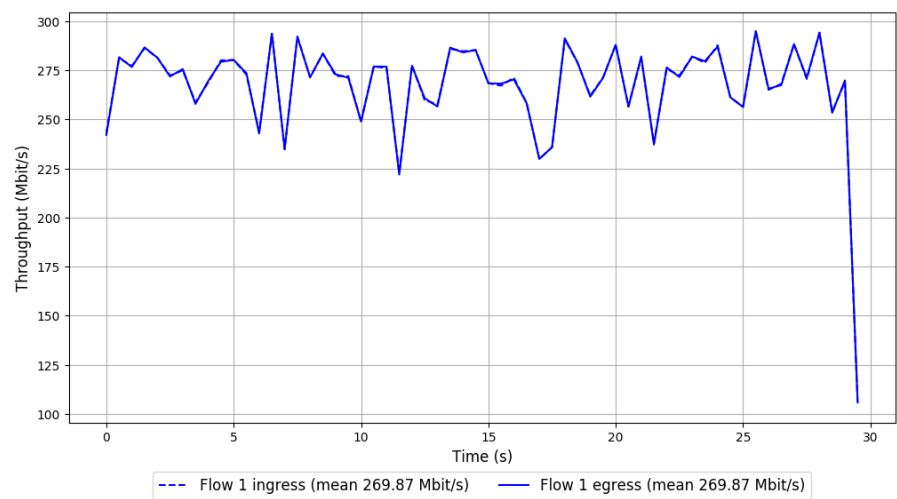


```
Run 2: Statistics of Indigo-delay

Start at: 2017-09-21 12:48:48
End at: 2017-09-21 12:49:18
Local clock offset: 0.216 ms
Remote clock offset: 0.061 ms

# Below is generated by plot.py at 2017-09-21 18:15:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 269.87 Mbit/s
95th percentile per-packet one-way delay: 2.361 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 269.87 Mbit/s
95th percentile per-packet one-way delay: 2.361 ms
Loss rate: 0.00%
```

Run 2: Report of Indigo-delay — Data Link



Run 3: Statistics of Indigo-delay

Start at: 2017-09-21 13:07:06

End at: 2017-09-21 13:07:36

Local clock offset: 0.268 ms

Remote clock offset: -0.092 ms

Below is generated by plot.py at 2017-09-21 18:15:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 240.63 Mbit/s

95th percentile per-packet one-way delay: 2.289 ms

Loss rate: 0.00%

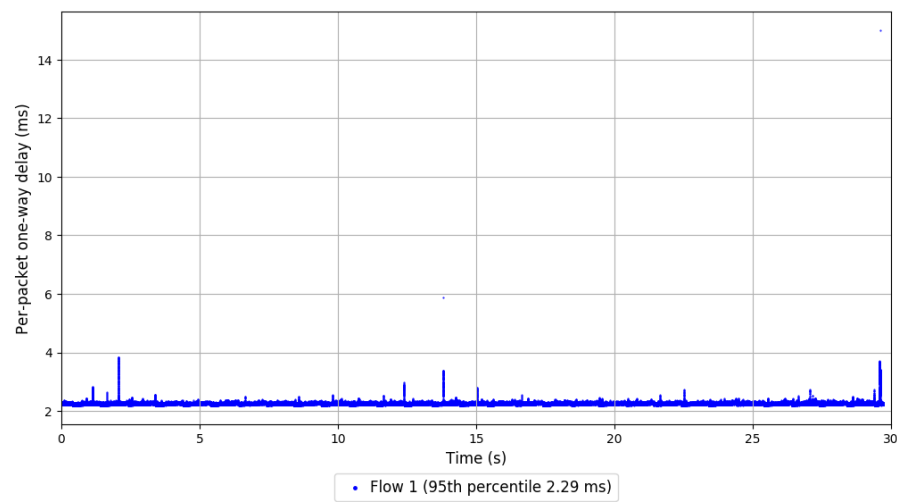
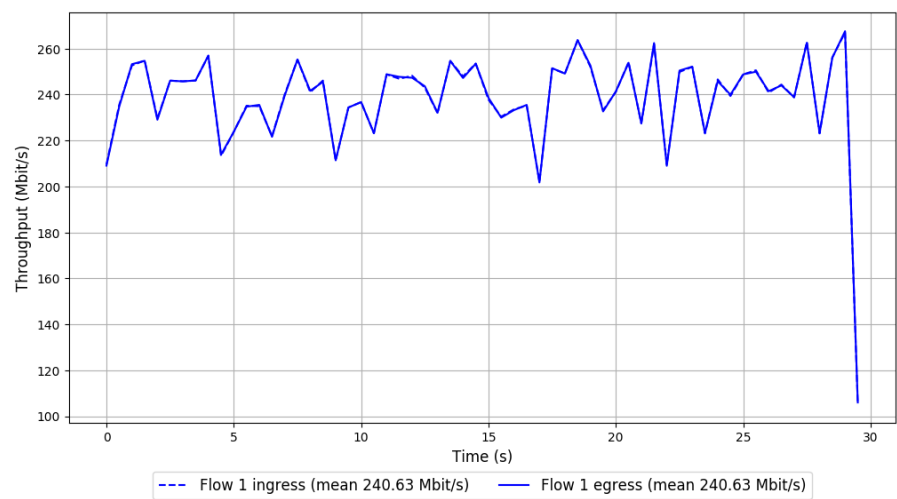
-- Flow 1:

Average throughput: 240.63 Mbit/s

95th percentile per-packet one-way delay: 2.289 ms

Loss rate: 0.00%

Run 3: Report of Indigo-delay — Data Link



Run 4: Statistics of Indigo-delay

Start at: 2017-09-21 13:25:22

End at: 2017-09-21 13:25:52

Local clock offset: 0.26 ms

Remote clock offset: -0.3 ms

Below is generated by plot.py at 2017-09-21 18:16:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.64 Mbit/s

95th percentile per-packet one-way delay: 2.192 ms

Loss rate: 0.00%

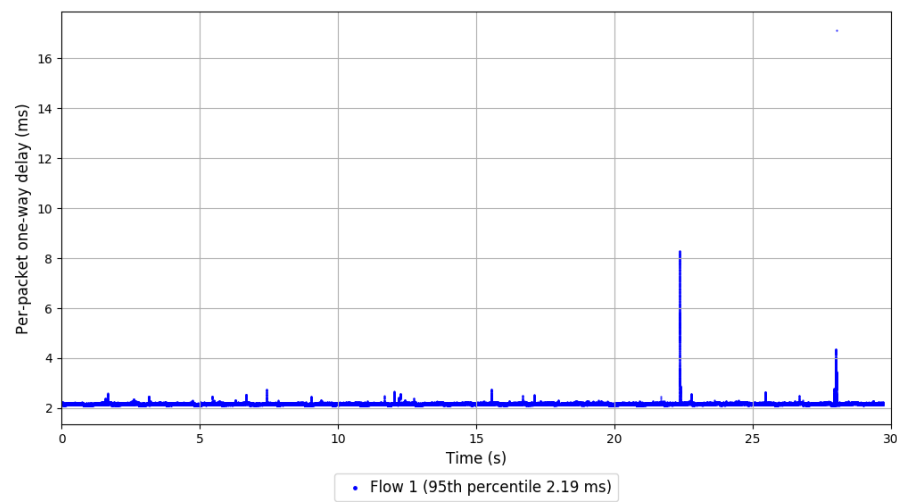
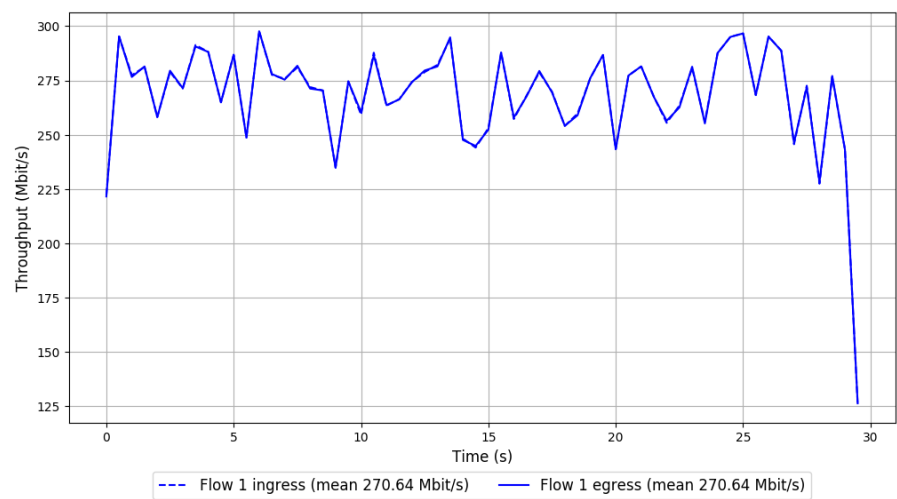
-- Flow 1:

Average throughput: 270.64 Mbit/s

95th percentile per-packet one-way delay: 2.192 ms

Loss rate: 0.00%

Run 4: Report of Indigo-delay — Data Link

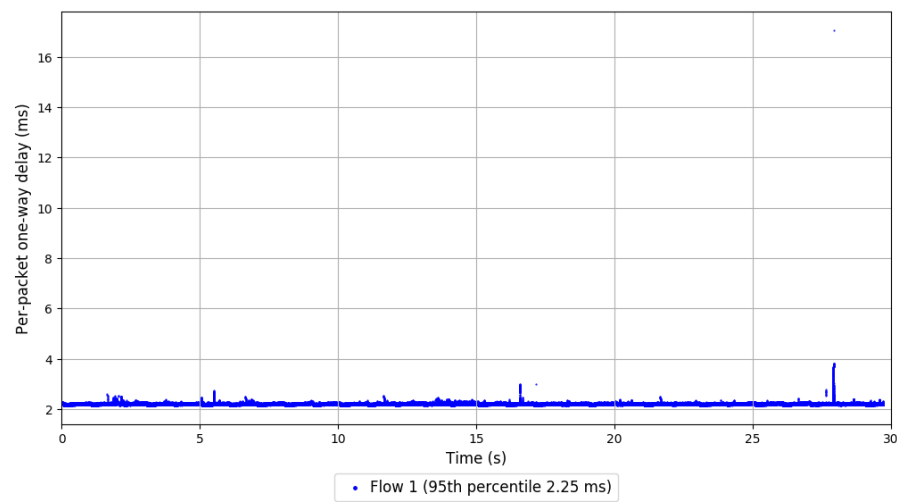
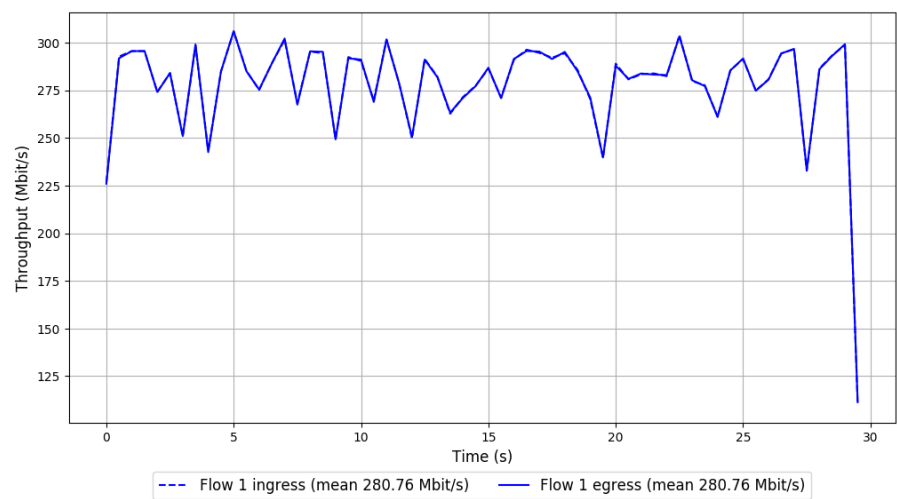


Run 5: Statistics of Indigo-delay

Start at: 2017-09-21 13:43:40
End at: 2017-09-21 13:44:10
Local clock offset: 0.09 ms
Remote clock offset: -0.451 ms

Below is generated by plot.py at 2017-09-21 18:17:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.76 Mbit/s
95th percentile per-packet one-way delay: 2.248 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 280.76 Mbit/s
95th percentile per-packet one-way delay: 2.248 ms
Loss rate: 0.00%

Run 5: Report of Indigo-delay — Data Link

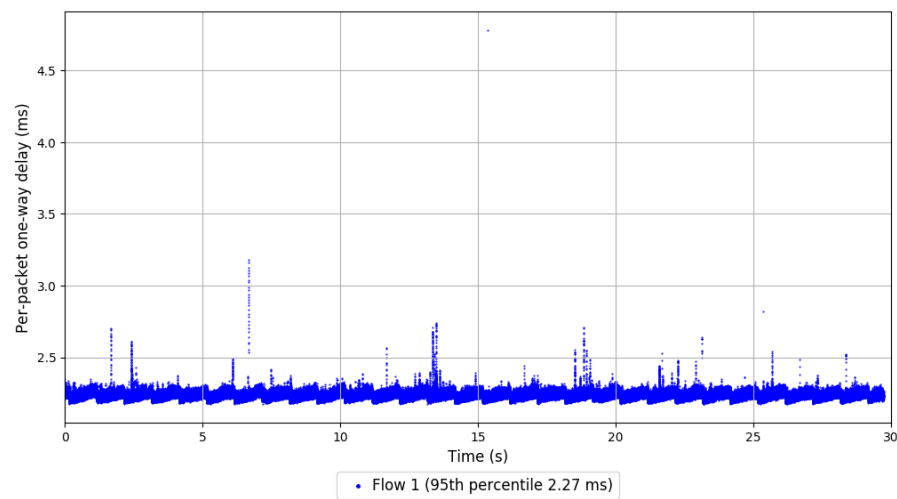
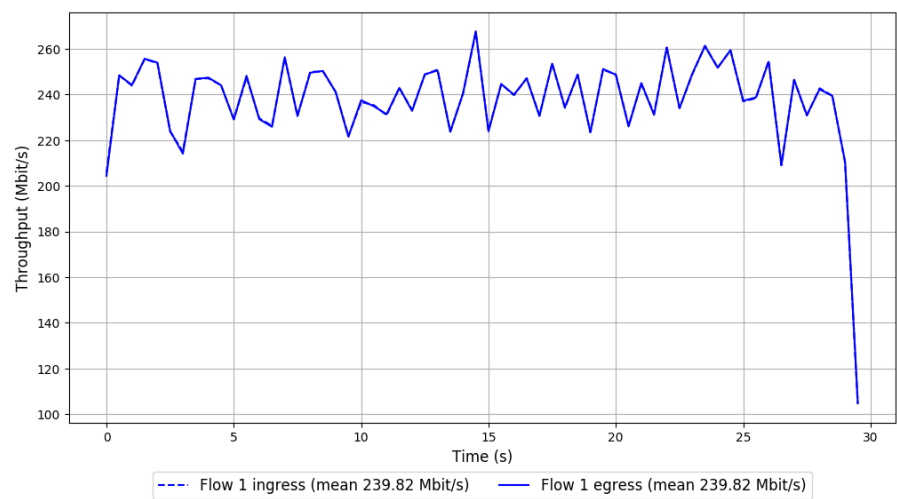


Run 6: Statistics of Indigo-delay

Start at: 2017-09-21 14:01:59
End at: 2017-09-21 14:02:30
Local clock offset: 0.106 ms
Remote clock offset: -0.425 ms

Below is generated by plot.py at 2017-09-21 18:17:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.82 Mbit/s
95th percentile per-packet one-way delay: 2.274 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.82 Mbit/s
95th percentile per-packet one-way delay: 2.274 ms
Loss rate: 0.00%

Run 6: Report of Indigo-delay — Data Link

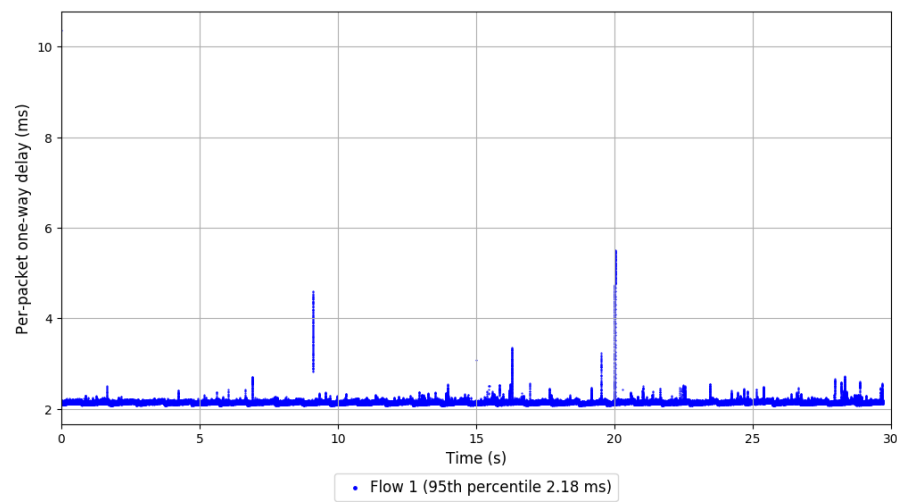
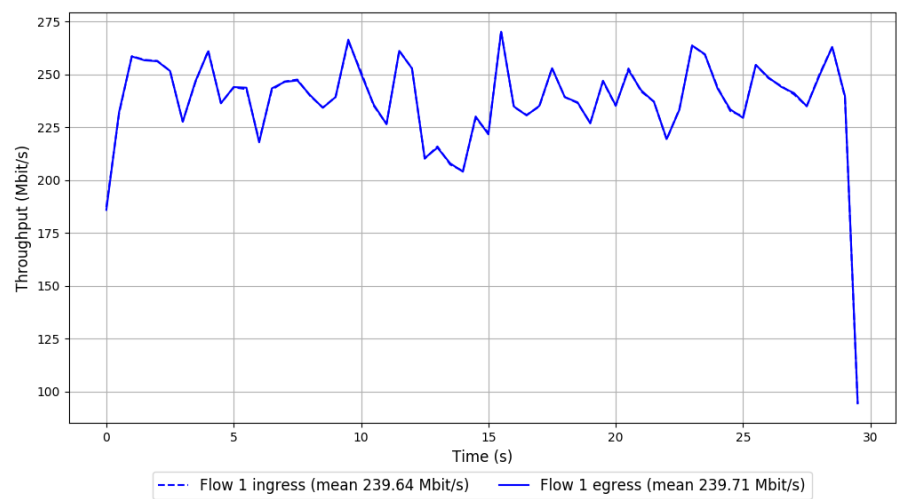


Run 7: Statistics of Indigo-delay

Start at: 2017-09-21 14:20:12
End at: 2017-09-21 14:20:42
Local clock offset: 0.069 ms
Remote clock offset: -0.544 ms

Below is generated by plot.py at 2017-09-21 18:17:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 2.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 239.71 Mbit/s
95th percentile per-packet one-way delay: 2.182 ms
Loss rate: 0.00%

Run 7: Report of Indigo-delay — Data Link

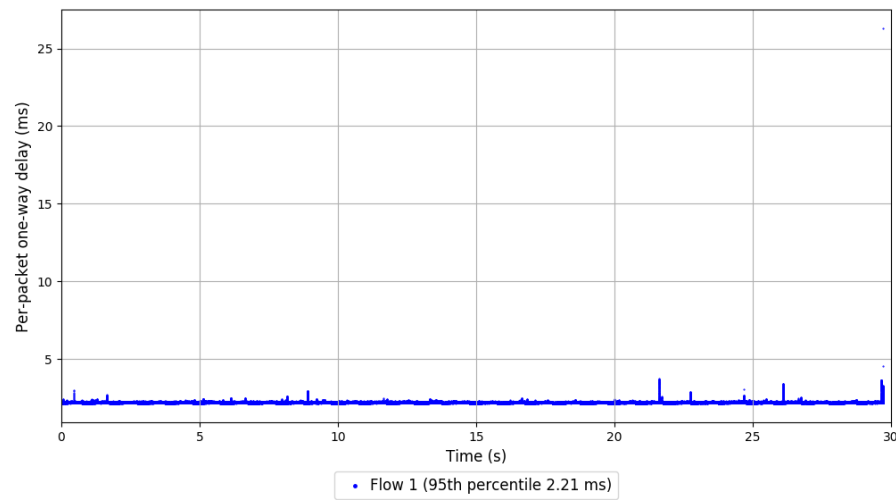
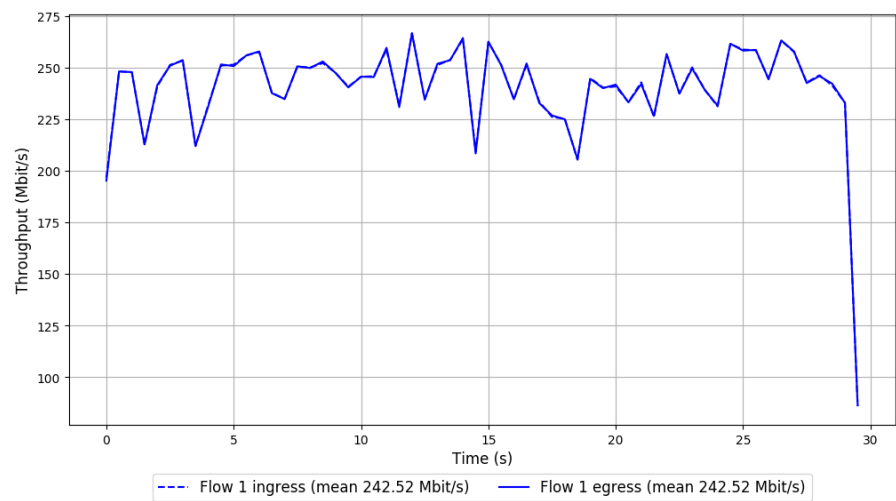


Run 8: Statistics of Indigo-delay

Start at: 2017-09-21 14:37:58
End at: 2017-09-21 14:38:28
Local clock offset: -0.016 ms
Remote clock offset: -0.593 ms

Below is generated by plot.py at 2017-09-21 18:17:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 242.52 Mbit/s
95th percentile per-packet one-way delay: 2.215 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 242.52 Mbit/s
95th percentile per-packet one-way delay: 2.215 ms
Loss rate: 0.00%

Run 8: Report of Indigo-delay — Data Link



Run 9: Statistics of Indigo-delay

Start at: 2017-09-21 14:56:09

End at: 2017-09-21 14:56:39

Local clock offset: -0.174 ms

Remote clock offset: -0.59 ms

Below is generated by plot.py at 2017-09-21 18:17:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.53 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.00%

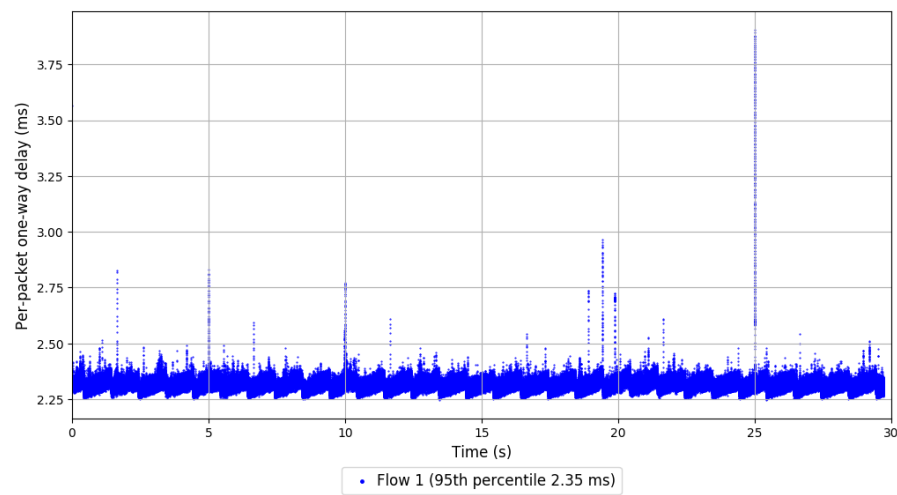
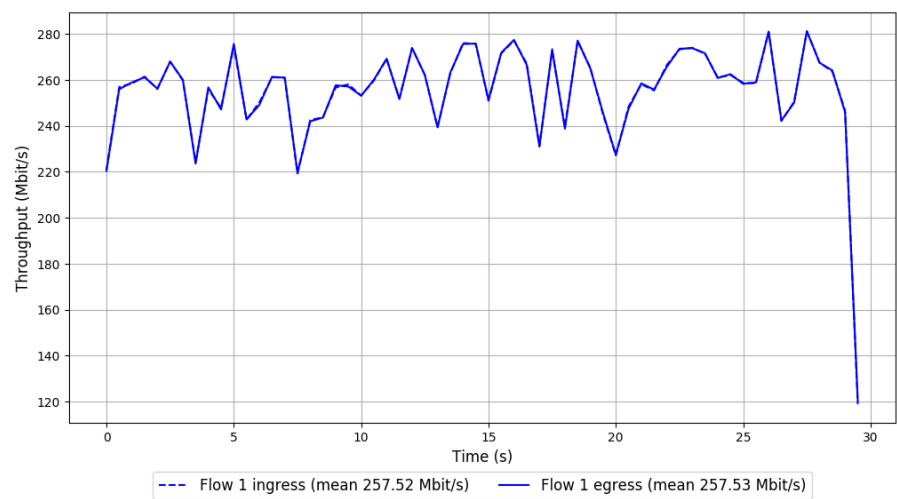
-- Flow 1:

Average throughput: 257.53 Mbit/s

95th percentile per-packet one-way delay: 2.351 ms

Loss rate: 0.00%

Run 9: Report of Indigo-delay — Data Link



Run 10: Statistics of Indigo-delay

Start at: 2017-09-21 15:14:31
End at: 2017-09-21 15:15:01
Local clock offset: -0.133 ms
Remote clock offset: -0.566 ms

Below is generated by plot.py at 2017-09-21 18:17:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 254.27 Mbit/s
95th percentile per-packet one-way delay: 2.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 254.27 Mbit/s
95th percentile per-packet one-way delay: 2.185 ms
Loss rate: 0.00%

Run 10: Report of Indigo-delay — Data Link

