

Pantheon Report

Generated at 2018-07-04 09:20:06 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

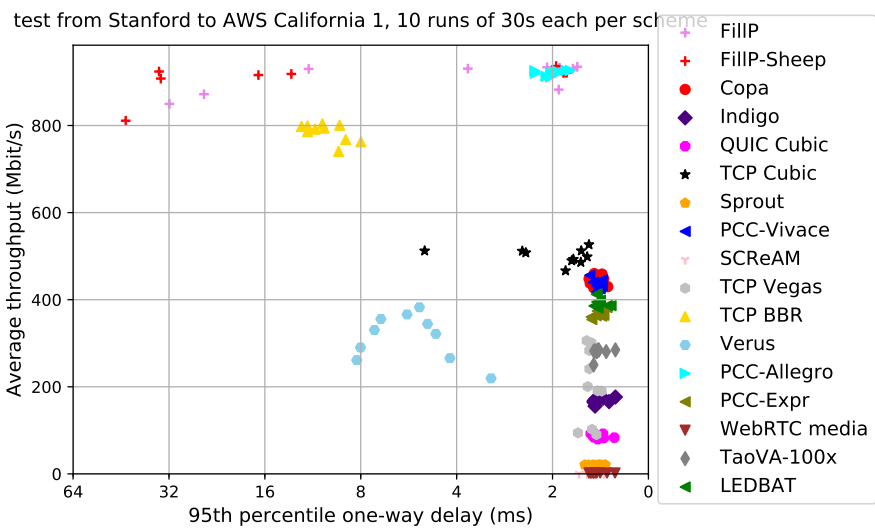
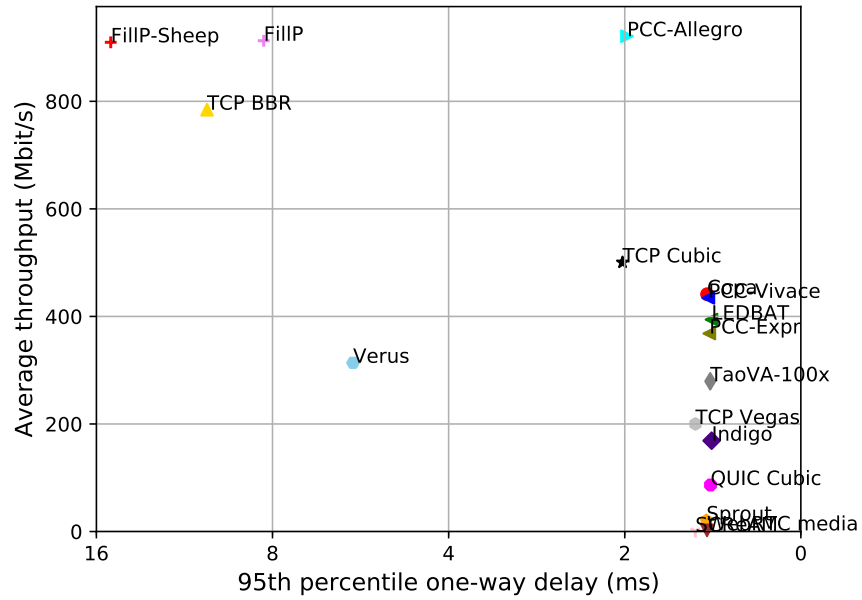
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
  M src/ScreamClient
  M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Stanford to AWS California 1, 10 runs of 30s each per scheme
(mean of all runs by 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	784.39	10.35	0.09
Copa	10	441.30	1.07	0.07
TCP Cubic	10	500.44	2.02	0.07
FillP	10	912.65	8.28	0.21
FillP-Sheep	10	909.76	15.12	1.38
Indigo	10	168.92	1.01	0.07
LEDBAT	10	394.12	1.02	0.08
PCC-Allegro	10	921.13	1.97	0.07
PCC-Expr	10	368.25	1.04	0.07
QUIC Cubic	10	86.56	1.03	0.07
SCReAM	10	0.22	1.20	0.09
Sprout	10	20.65	1.07	0.05
TaoVA-100x	10	279.38	1.03	0.06
TCP Vegas	10	199.97	1.20	0.04
Verus	10	313.75	5.83	0.05
PCC-Vivace	10	434.54	1.05	0.07
WebRTC media	10	2.12	1.07	0.08

Run 1: Statistics of TCP BBR

Start at: 2018-07-04 03:08:20

End at: 2018-07-04 03:08:50

Local clock offset: -2.098 ms

Remote clock offset: 4.331 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 803.82 Mbit/s

95th percentile per-packet one-way delay: 10.556 ms

Loss rate: 0.10%

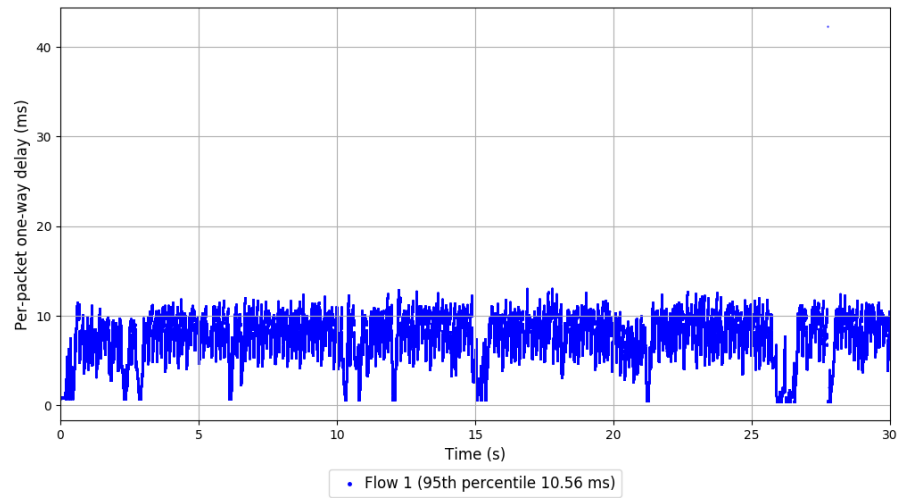
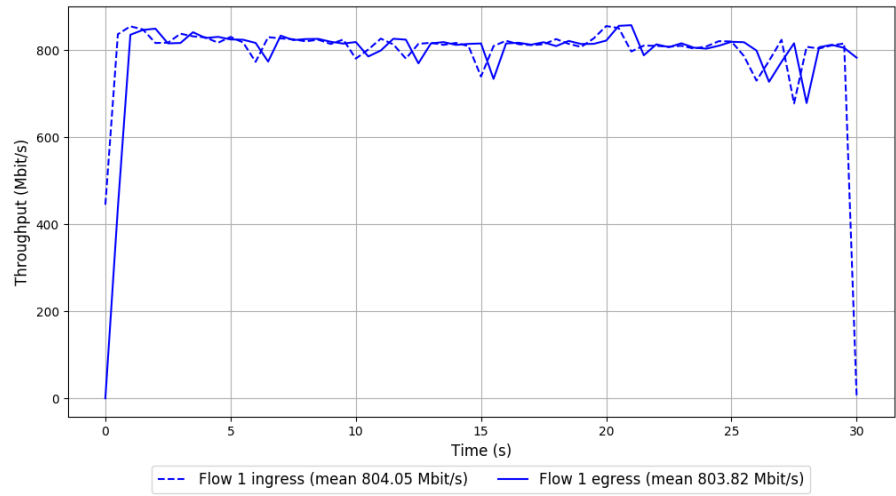
-- Flow 1:

Average throughput: 803.82 Mbit/s

95th percentile per-packet one-way delay: 10.556 ms

Loss rate: 0.10%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-04 03:34:11

End at: 2018-07-04 03:34:41

Local clock offset: 0.382 ms

Remote clock offset: 0.611 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 800.68 Mbit/s

95th percentile per-packet one-way delay: 9.319 ms

Loss rate: 0.09%

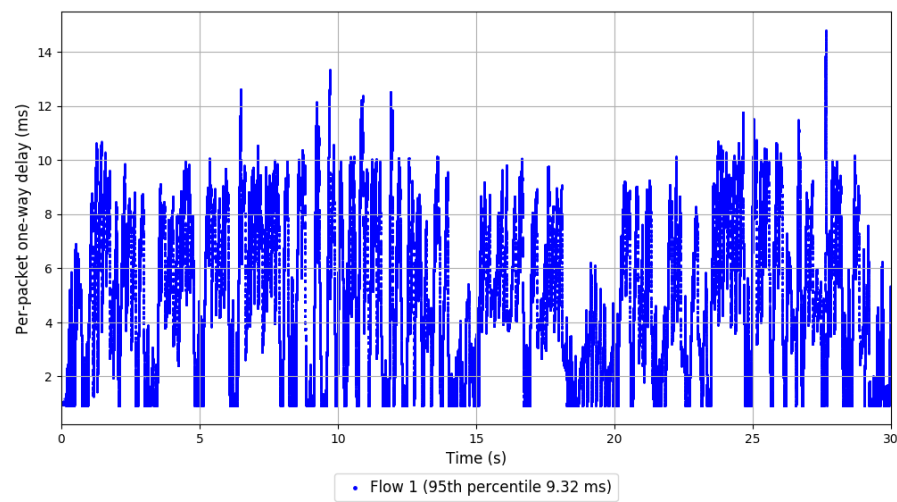
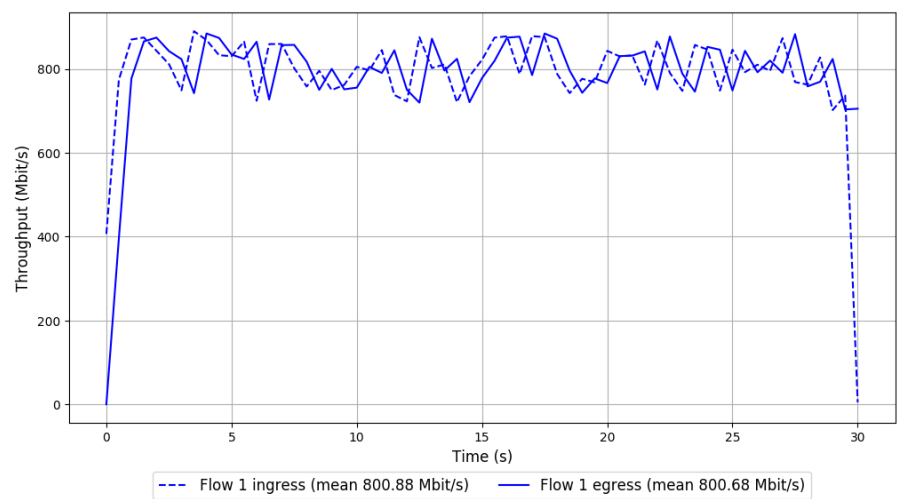
-- Flow 1:

Average throughput: 800.68 Mbit/s

95th percentile per-packet one-way delay: 9.319 ms

Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-04 04:00:07

End at: 2018-07-04 04:00:37

Local clock offset: 0.516 ms

Remote clock offset: 3.691 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 767.79 Mbit/s

95th percentile per-packet one-way delay: 8.924 ms

Loss rate: 0.07%

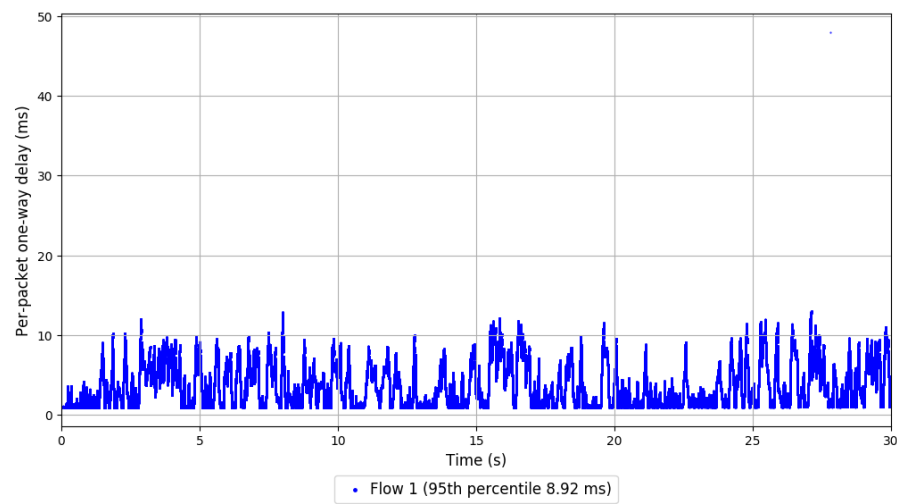
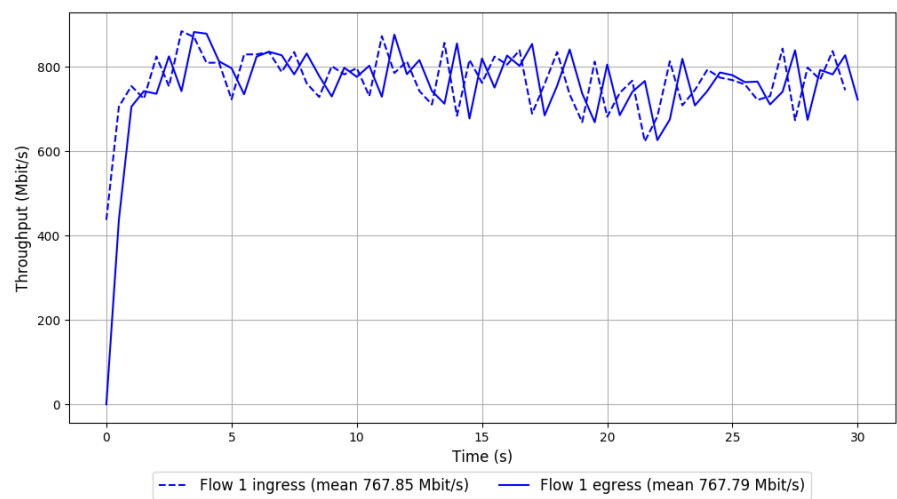
-- Flow 1:

Average throughput: 767.79 Mbit/s

95th percentile per-packet one-way delay: 8.924 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-04 04:26:08

End at: 2018-07-04 04:26:38

Local clock offset: 0.066 ms

Remote clock offset: 0.873 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 793.88 Mbit/s

95th percentile per-packet one-way delay: 10.427 ms

Loss rate: 0.10%

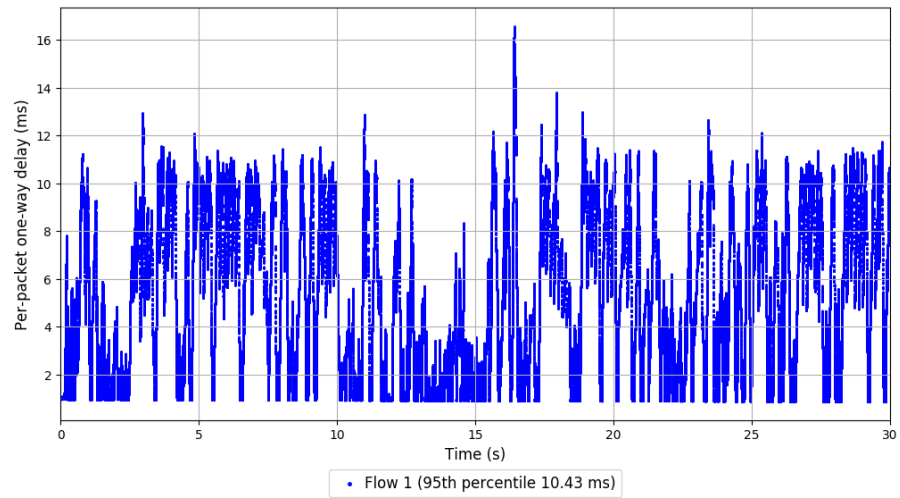
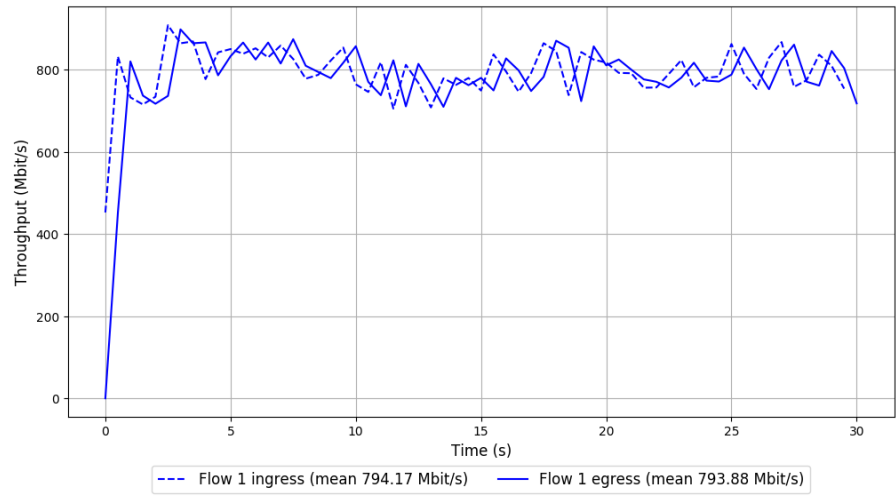
-- Flow 1:

Average throughput: 793.88 Mbit/s

95th percentile per-packet one-way delay: 10.427 ms

Loss rate: 0.10%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-04 04:52:04

End at: 2018-07-04 04:52:34

Local clock offset: 3.947 ms

Remote clock offset: -1.189 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.62 Mbit/s

95th percentile per-packet one-way delay: 7.991 ms

Loss rate: 0.08%

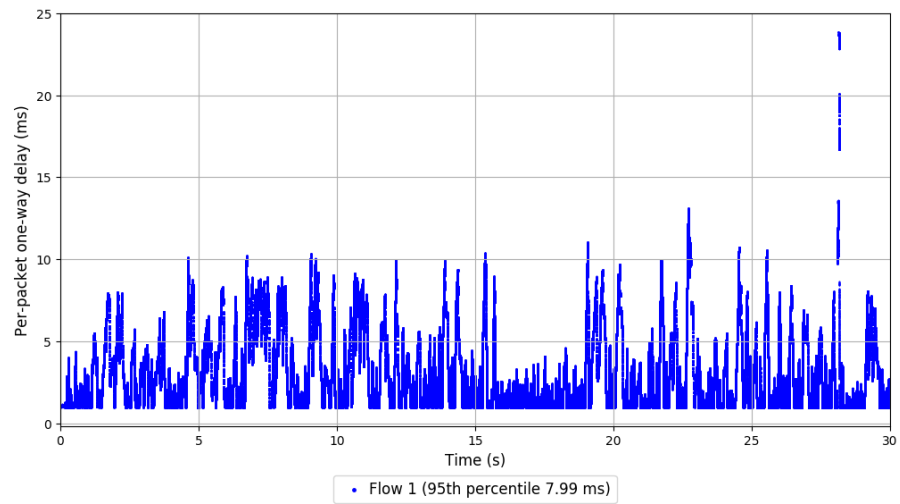
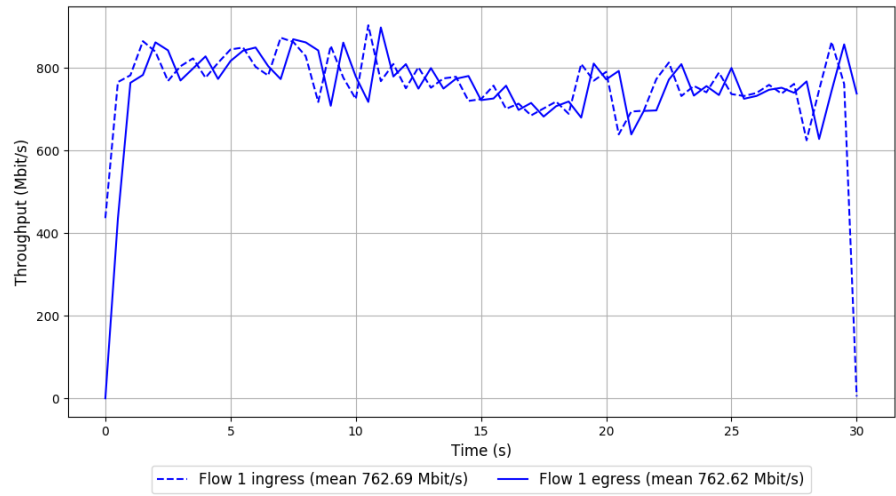
-- Flow 1:

Average throughput: 762.62 Mbit/s

95th percentile per-packet one-way delay: 7.991 ms

Loss rate: 0.08%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-04 05:18:01

End at: 2018-07-04 05:18:31

Local clock offset: 1.27 ms

Remote clock offset: -0.976 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 740.64 Mbit/s

95th percentile per-packet one-way delay: 9.389 ms

Loss rate: 0.11%

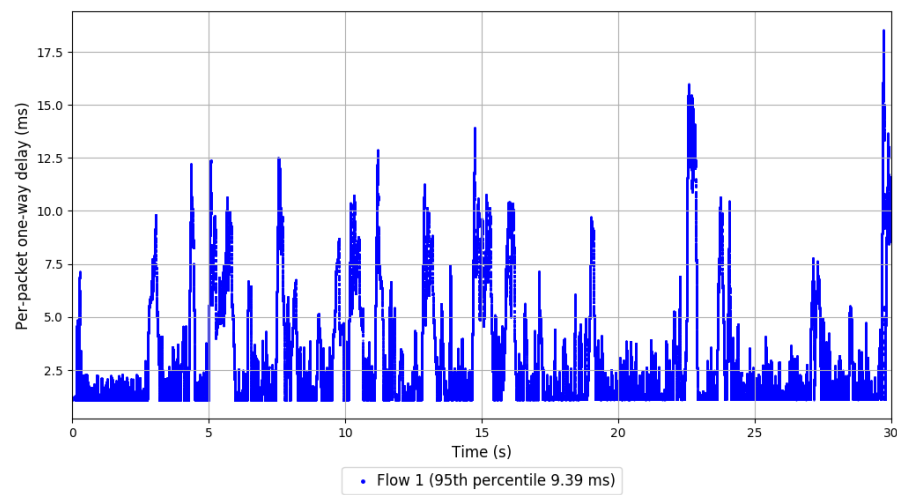
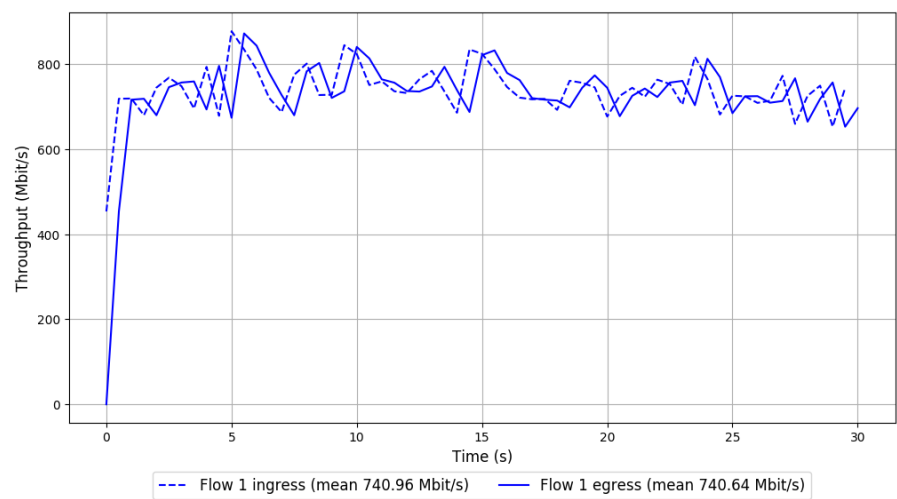
-- Flow 1:

Average throughput: 740.64 Mbit/s

95th percentile per-packet one-way delay: 9.389 ms

Loss rate: 0.11%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-04 05:43:58

End at: 2018-07-04 05:44:29

Local clock offset: -0.056 ms

Remote clock offset: -0.36 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.92 Mbit/s

95th percentile per-packet one-way delay: 12.278 ms

Loss rate: 0.10%

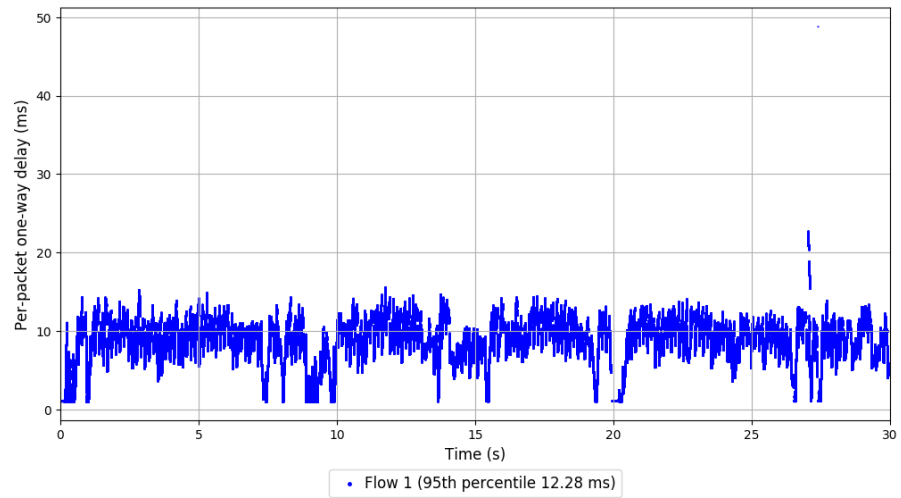
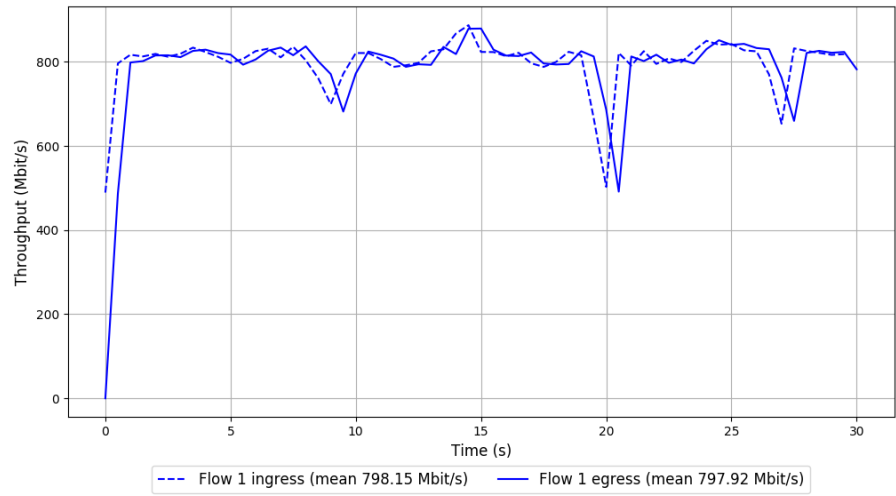
-- Flow 1:

Average throughput: 797.92 Mbit/s

95th percentile per-packet one-way delay: 12.278 ms

Loss rate: 0.10%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-04 06:09:44

End at: 2018-07-04 06:10:14

Local clock offset: -0.177 ms

Remote clock offset: 3.347 ms

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

Datalink statistics

-- Total of 1 flow:

Average throughput: 785.89 Mbit/s

95th percentile per-packet one-way delay: 11.760 ms

Loss rate: 0.10%

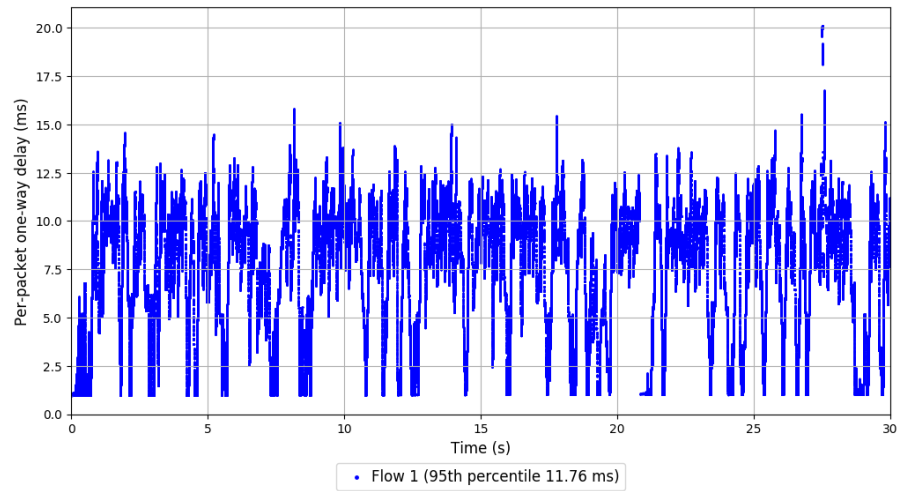
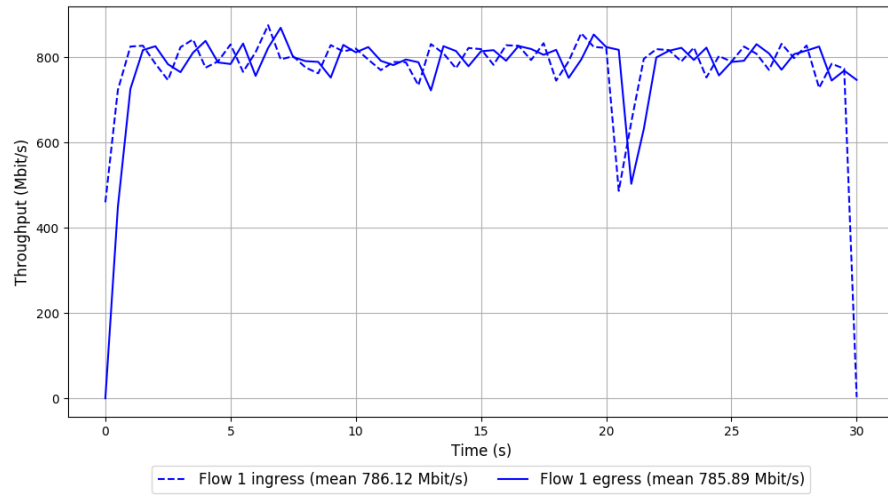
-- Flow 1:

Average throughput: 785.89 Mbit/s

95th percentile per-packet one-way delay: 11.760 ms

Loss rate: 0.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-04 06:35:44

End at: 2018-07-04 06:36:14

Local clock offset: -0.535 ms

Remote clock offset: 3.127 ms

Below is generated by plot.py at 2018-07-04 07:41:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 791.65 Mbit/s

95th percentile per-packet one-way delay: 11.127 ms

Loss rate: 0.09%

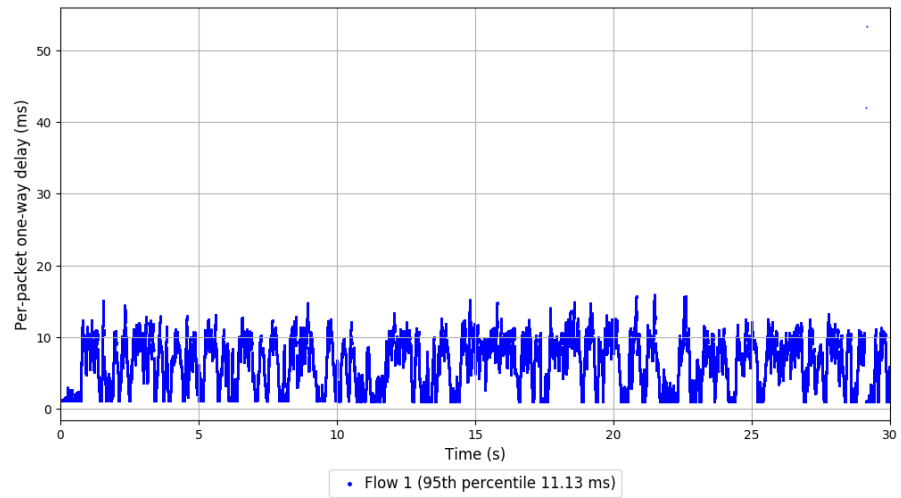
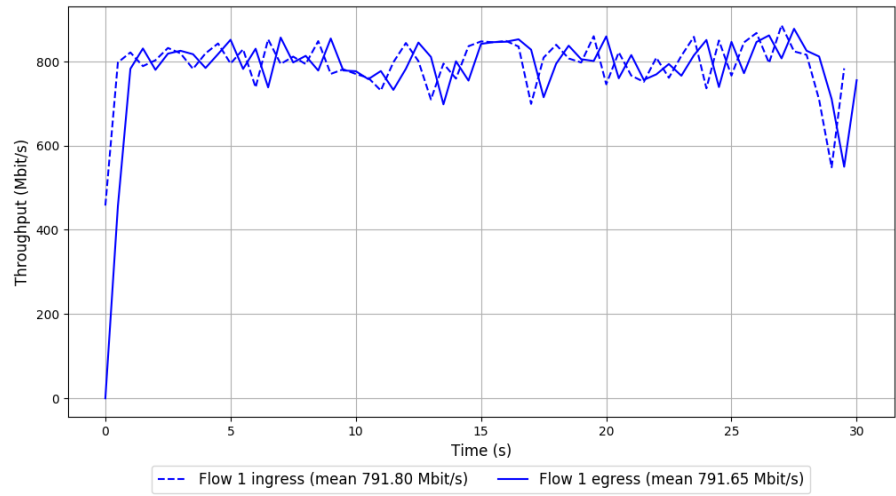
-- Flow 1:

Average throughput: 791.65 Mbit/s

95th percentile per-packet one-way delay: 11.127 ms

Loss rate: 0.09%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-04 07:01:43

End at: 2018-07-04 07:02:13

Local clock offset: -3.727 ms

Remote clock offset: -1.97 ms

Below is generated by plot.py at 2018-07-04 07:41:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.01 Mbit/s

95th percentile per-packet one-way delay: 11.747 ms

Loss rate: 0.08%

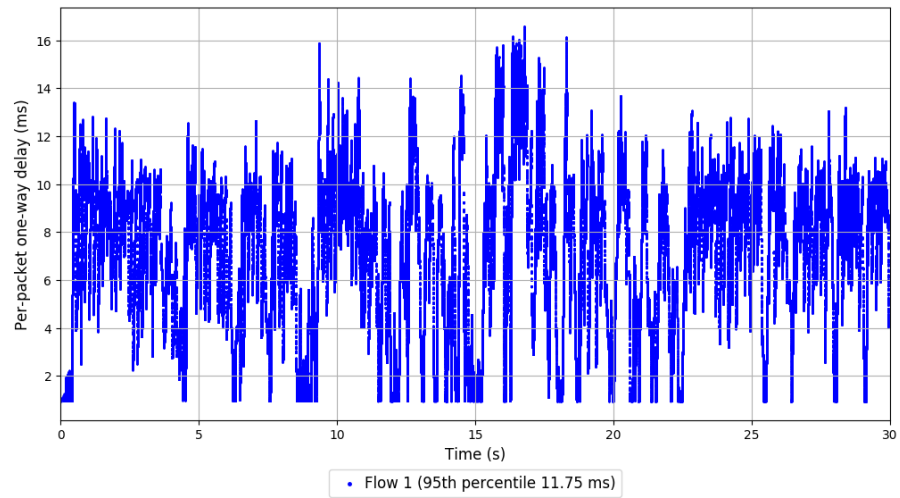
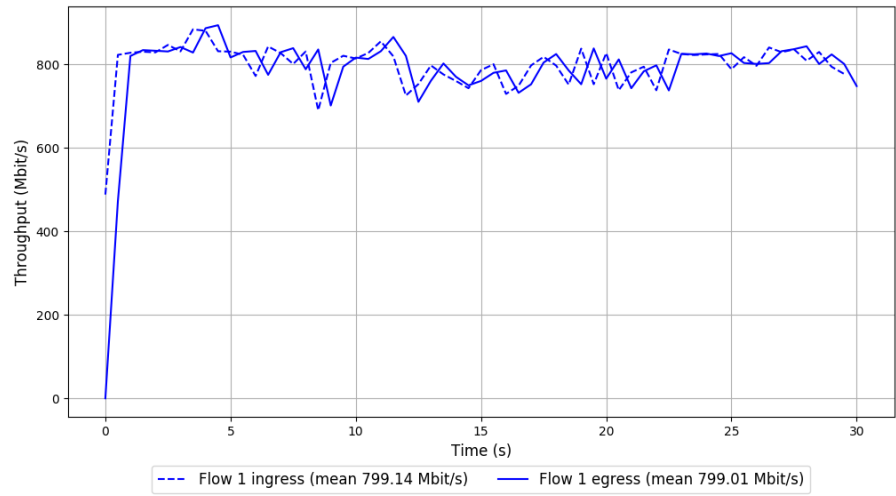
-- Flow 1:

Average throughput: 799.01 Mbit/s

95th percentile per-packet one-way delay: 11.747 ms

Loss rate: 0.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-04 03:05:04

End at: 2018-07-04 03:05:34

Local clock offset: -3.181 ms

Remote clock offset: 5.004 ms

Below is generated by plot.py at 2018-07-04 07:41:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.89 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.07%

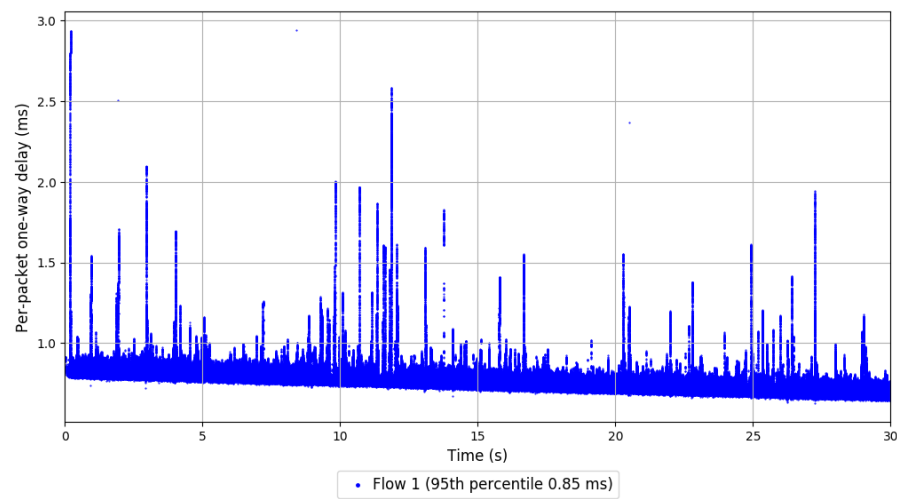
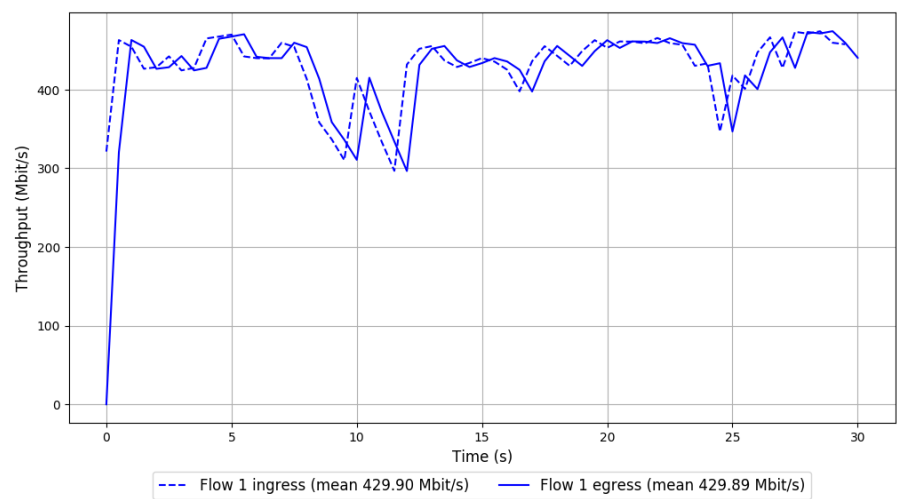
-- Flow 1:

Average throughput: 429.89 Mbit/s

95th percentile per-packet one-way delay: 0.848 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-04 03:30:55

End at: 2018-07-04 03:31:25

Local clock offset: 0.328 ms

Remote clock offset: 0.632 ms

Below is generated by plot.py at 2018-07-04 07:41:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.42 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.06%

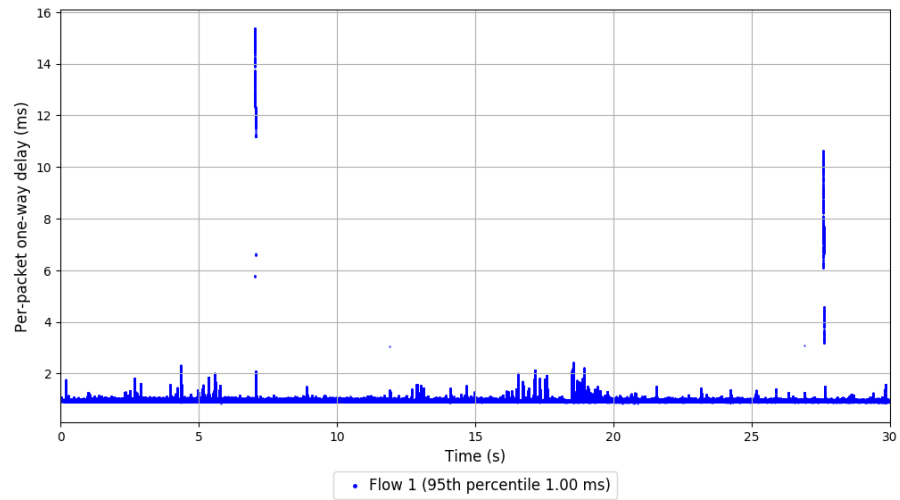
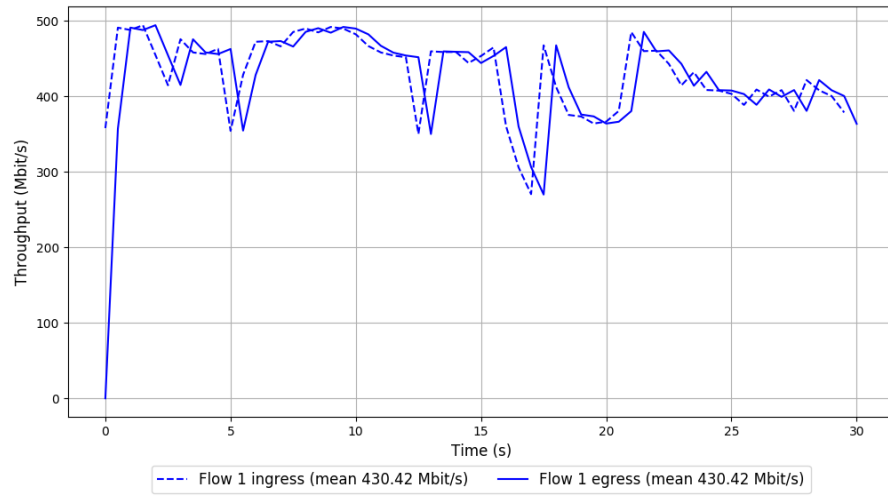
-- Flow 1:

Average throughput: 430.42 Mbit/s

95th percentile per-packet one-way delay: 1.003 ms

Loss rate: 0.06%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-04 03:56:52

End at: 2018-07-04 03:57:22

Local clock offset: 0.59 ms

Remote clock offset: 3.406 ms

Below is generated by plot.py at 2018-07-04 07:41:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.25 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.07%

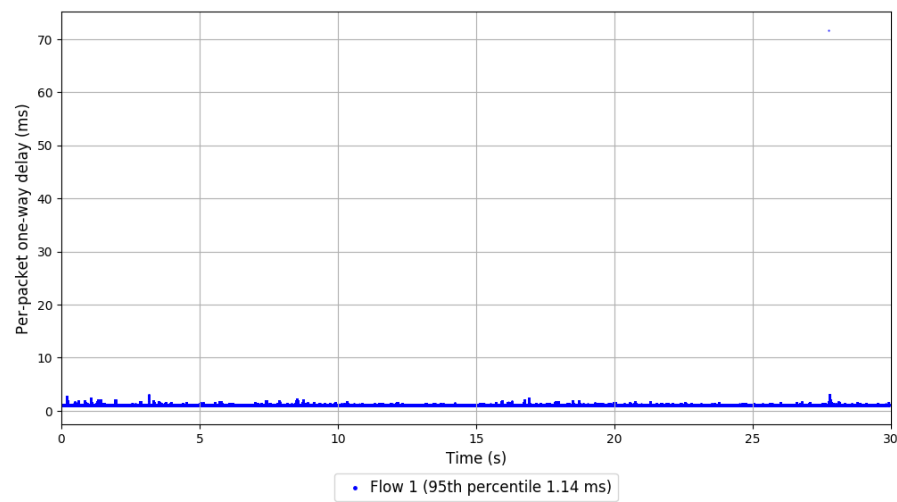
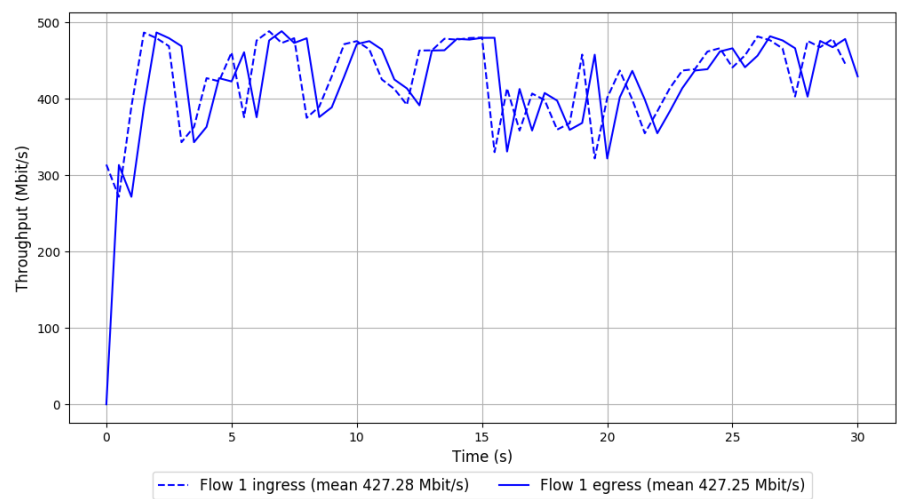
-- Flow 1:

Average throughput: 427.25 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-04 04:22:52

End at: 2018-07-04 04:23:22

Local clock offset: 0.02 ms

Remote clock offset: 1.614 ms

Below is generated by plot.py at 2018-07-04 07:41:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.30 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.07%

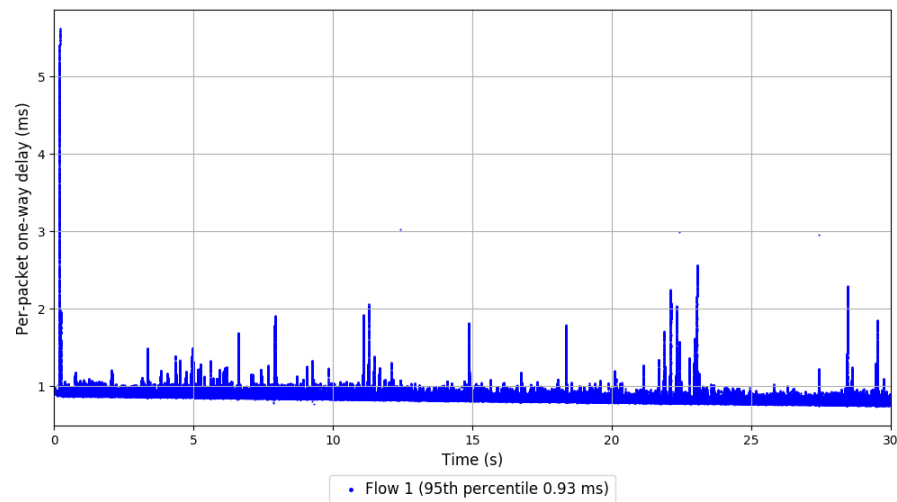
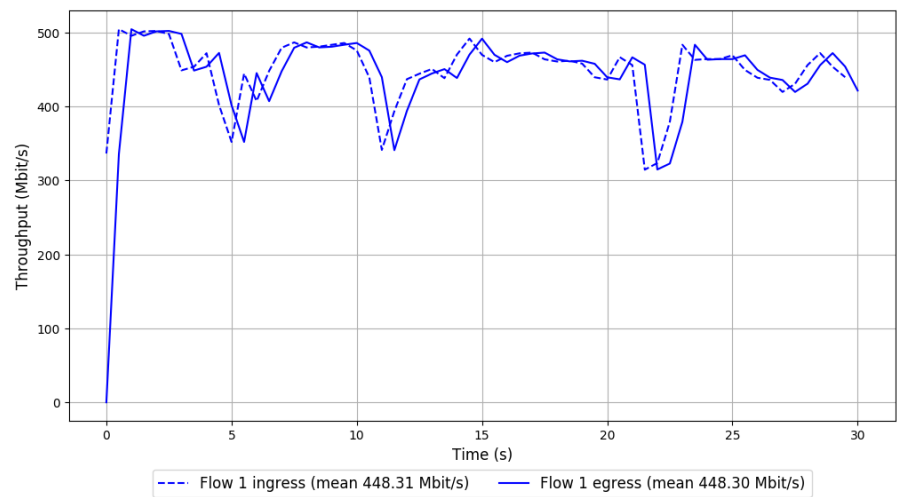
-- Flow 1:

Average throughput: 448.30 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link

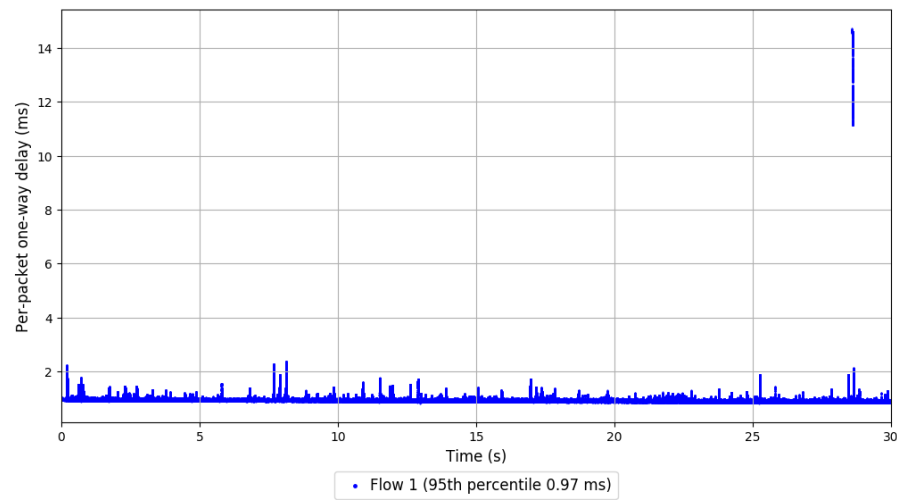
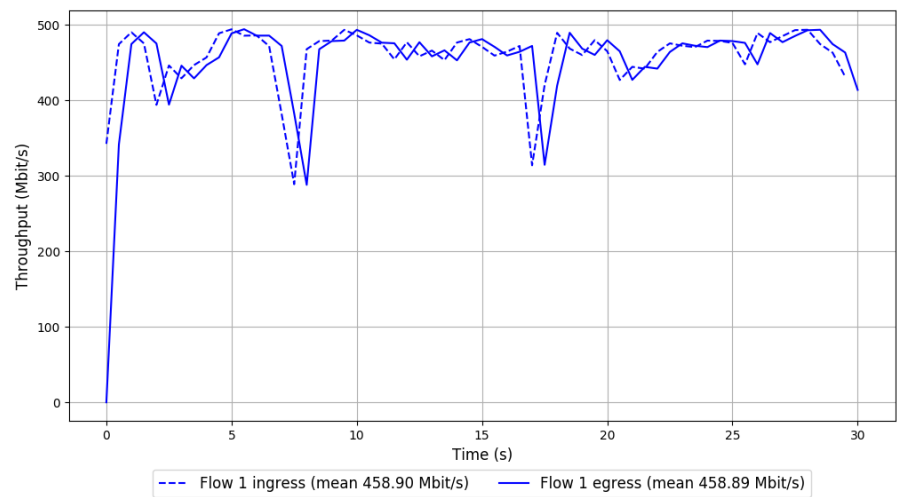


Run 5: Statistics of Copa

Start at: 2018-07-04 04:48:48
End at: 2018-07-04 04:49:18
Local clock offset: 3.567 ms
Remote clock offset: -1.439 ms

Below is generated by plot.py at 2018-07-04 07:42:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 458.89 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 458.89 Mbit/s
95th percentile per-packet one-way delay: 0.967 ms
Loss rate: 0.07%

Run 5: Report of Copa — Data Link

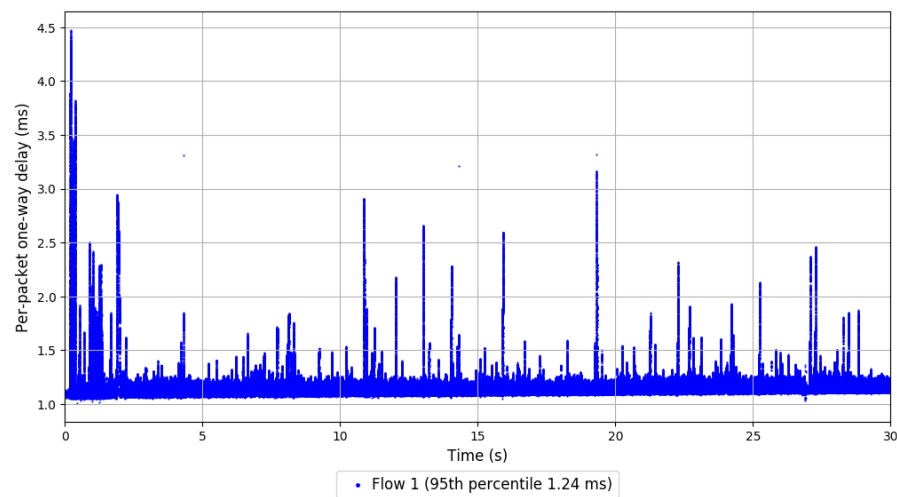
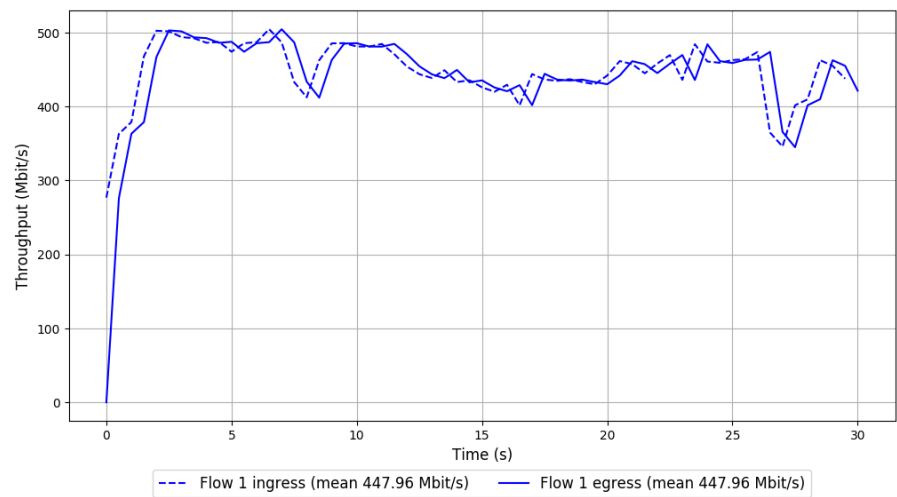


Run 6: Statistics of Copa

Start at: 2018-07-04 05:14:44
End at: 2018-07-04 05:15:14
Local clock offset: 1.636 ms
Remote clock offset: -0.863 ms

Below is generated by plot.py at 2018-07-04 07:42:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 447.96 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 447.96 Mbit/s
95th percentile per-packet one-way delay: 1.238 ms
Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-04 05:40:42

End at: 2018-07-04 05:41:12

Local clock offset: 0.107 ms

Remote clock offset: -0.29 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 460.00 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.05%

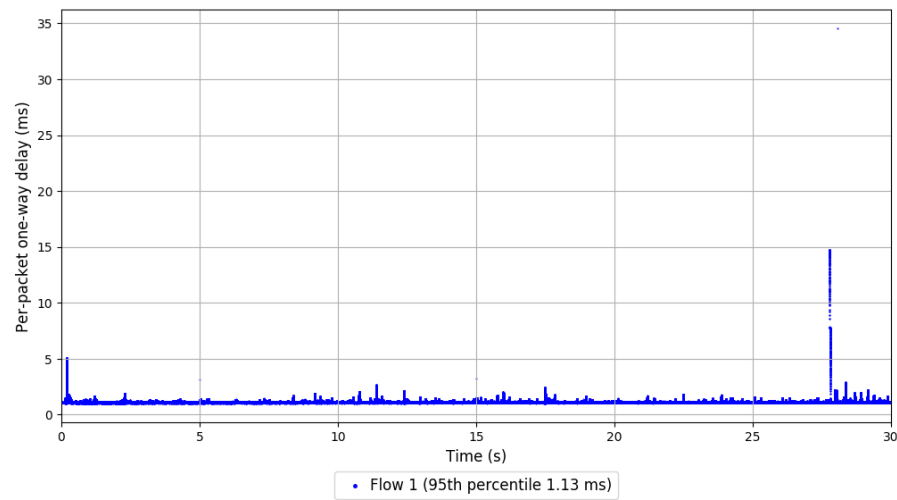
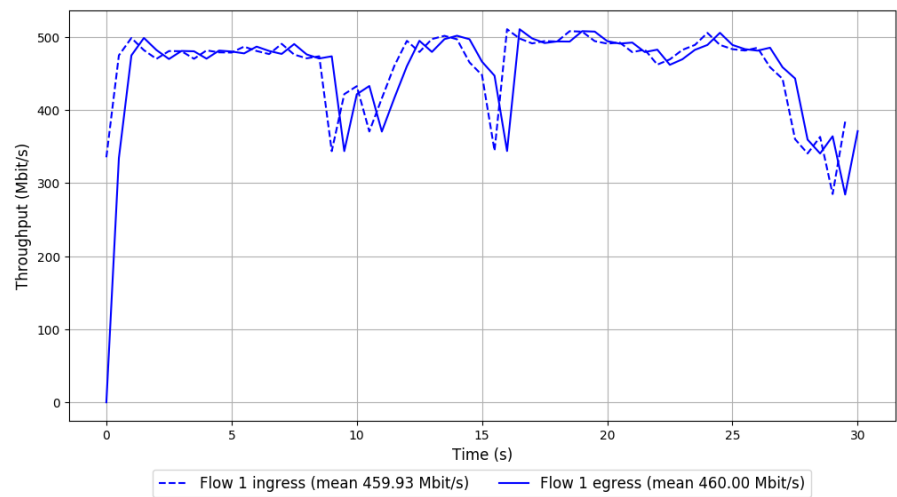
-- Flow 1:

Average throughput: 460.00 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.05%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-04 06:06:27

End at: 2018-07-04 06:06:57

Local clock offset: -0.265 ms

Remote clock offset: 2.754 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.71 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.07%

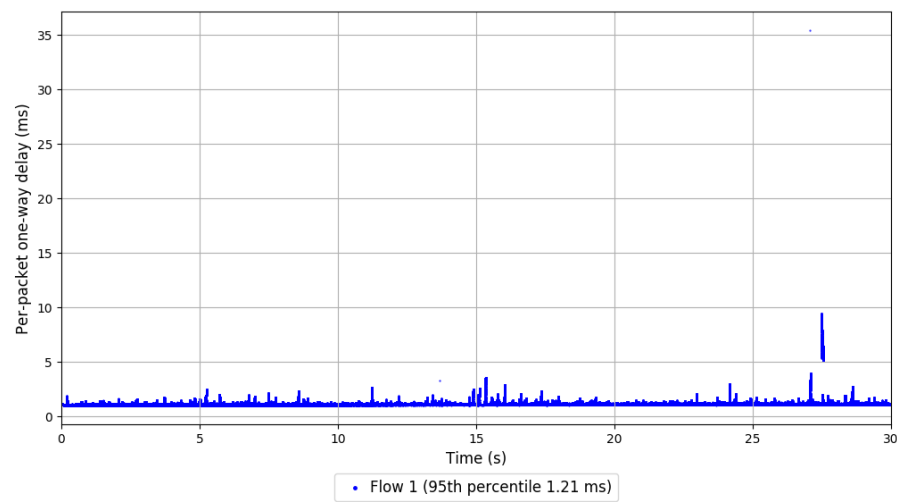
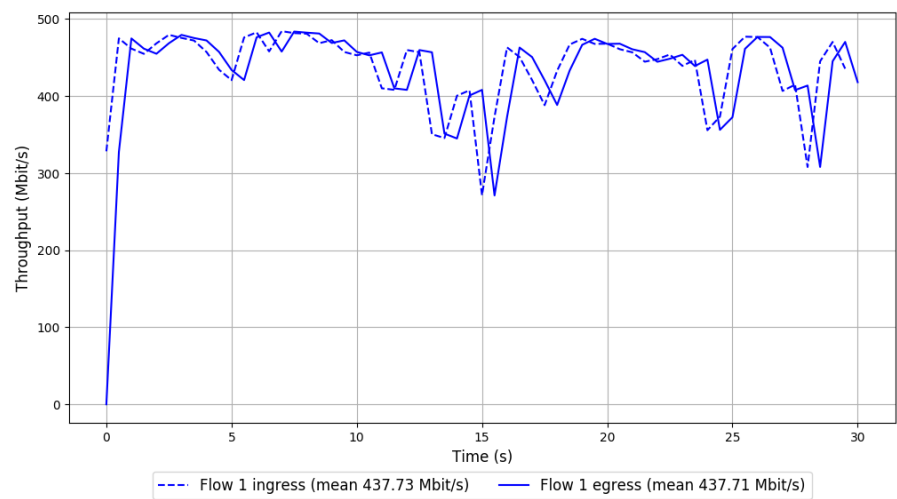
-- Flow 1:

Average throughput: 437.71 Mbit/s

95th percentile per-packet one-way delay: 1.214 ms

Loss rate: 0.07%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-04 06:32:28

End at: 2018-07-04 06:32:58

Local clock offset: 0.238 ms

Remote clock offset: 4.898 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 436.68 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.07%

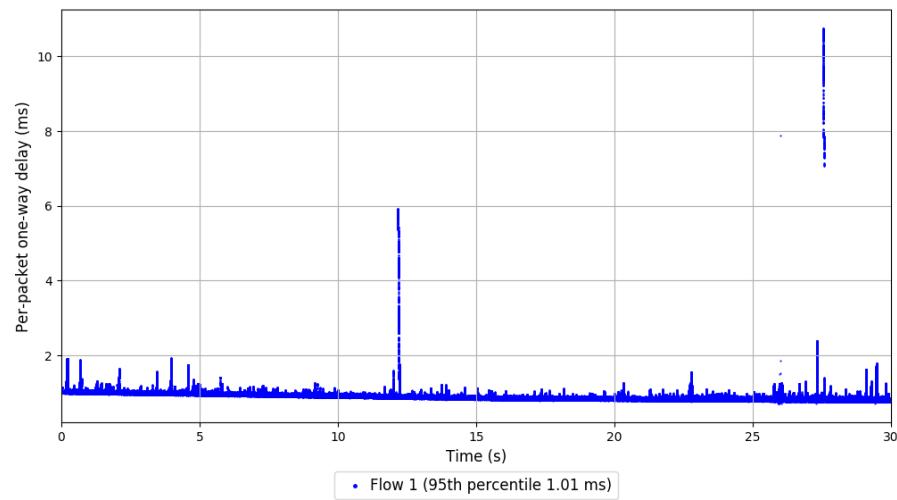
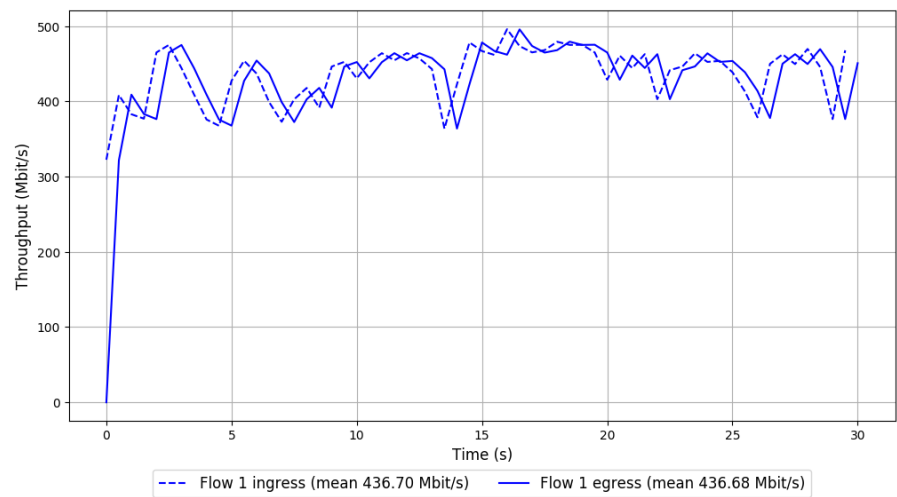
-- Flow 1:

Average throughput: 436.68 Mbit/s

95th percentile per-packet one-way delay: 1.007 ms

Loss rate: 0.07%

Run 9: Report of Copa — Data Link

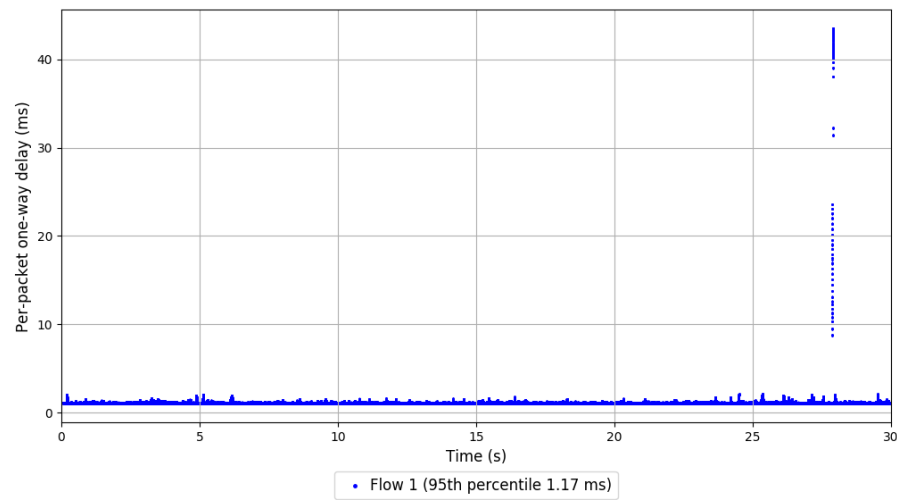
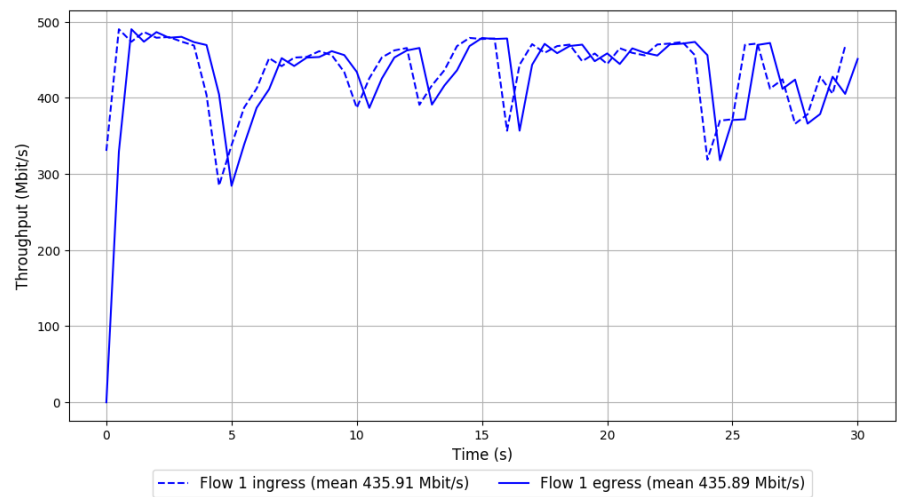


Run 10: Statistics of Copa

Start at: 2018-07-04 06:58:28
End at: 2018-07-04 06:58:58
Local clock offset: -3.452 ms
Remote clock offset: -1.682 ms

Below is generated by plot.py at 2018-07-04 07:50:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 435.89 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 435.89 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-04 02:56:19

End at: 2018-07-04 02:56:50

Local clock offset: -3.742 ms

Remote clock offset: 4.184 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.46 Mbit/s

95th percentile per-packet one-way delay: 1.400 ms

Loss rate: 0.06%

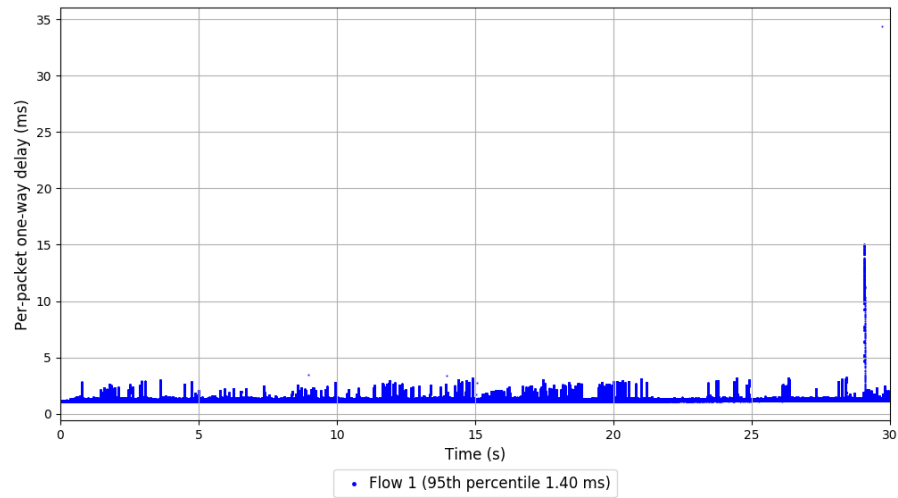
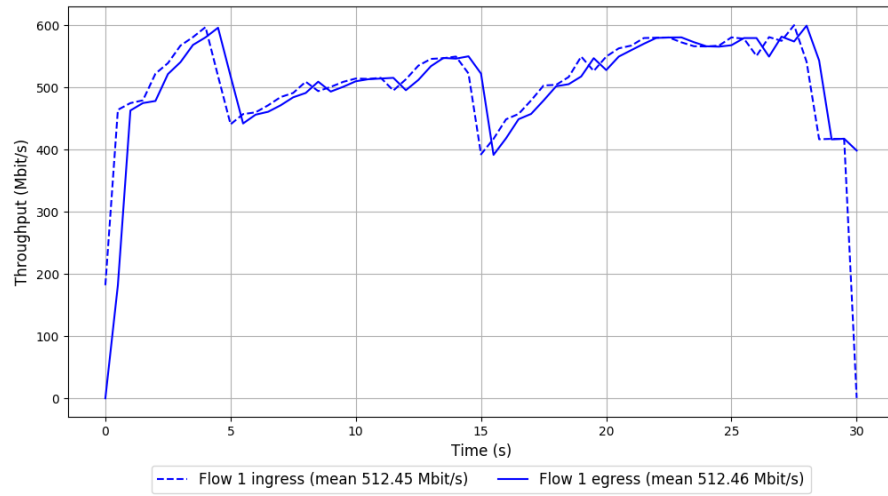
-- Flow 1:

Average throughput: 512.46 Mbit/s

95th percentile per-packet one-way delay: 1.400 ms

Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-04 03:22:11

End at: 2018-07-04 03:22:41

Local clock offset: 0.031 ms

Remote clock offset: 1.083 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.61 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.08%

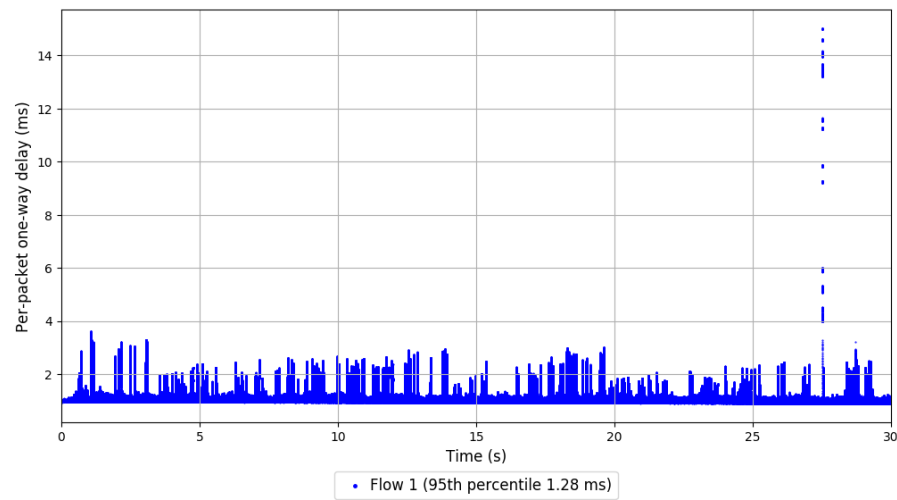
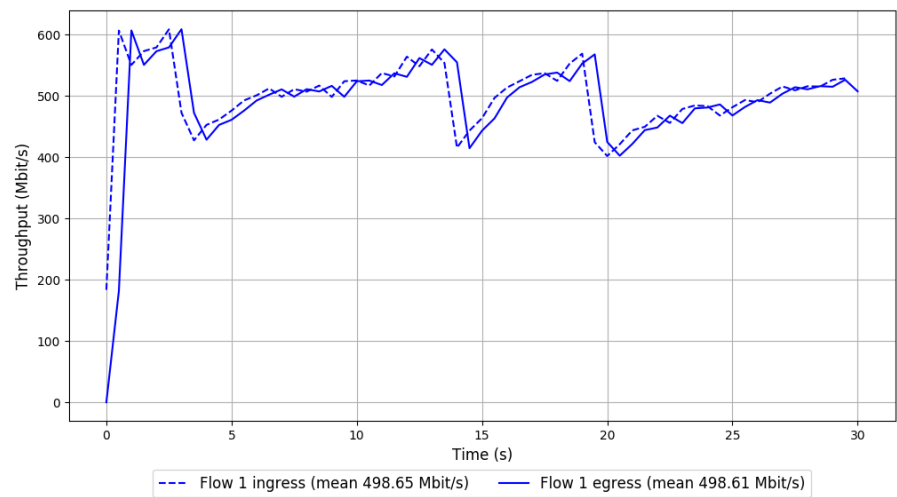
-- Flow 1:

Average throughput: 498.61 Mbit/s

95th percentile per-packet one-way delay: 1.277 ms

Loss rate: 0.08%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-04 03:48:09

End at: 2018-07-04 03:48:39

Local clock offset: 0.447 ms

Remote clock offset: 2.366 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.56 Mbit/s

95th percentile per-packet one-way delay: 1.600 ms

Loss rate: 0.06%

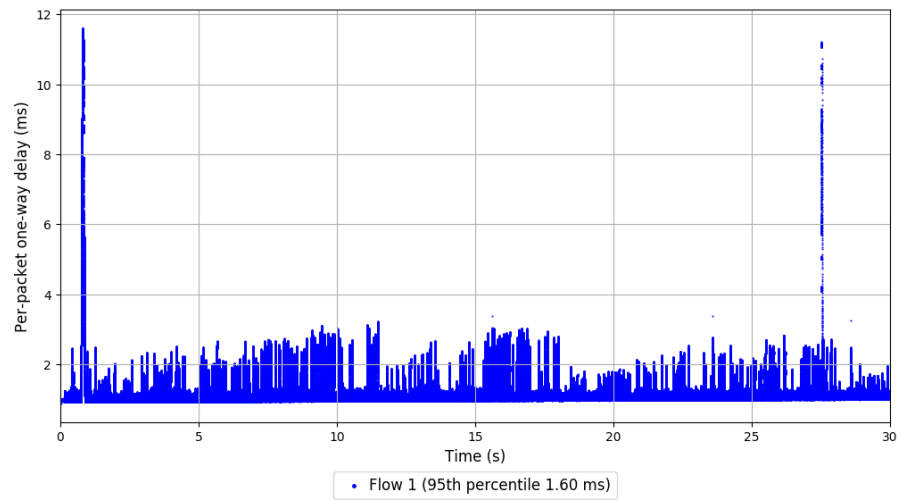
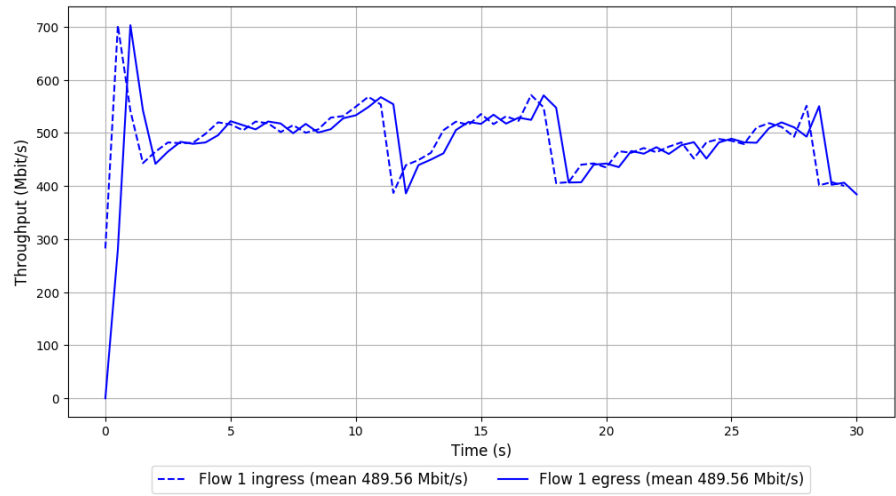
-- Flow 1:

Average throughput: 489.56 Mbit/s

95th percentile per-packet one-way delay: 1.600 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-04 04:14:06

End at: 2018-07-04 04:14:37

Local clock offset: 0.236 ms

Remote clock offset: 4.726 ms

Below is generated by plot.py at 2018-07-04 07:50:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 512.22 Mbit/s

95th percentile per-packet one-way delay: 5.041 ms

Loss rate: 0.07%

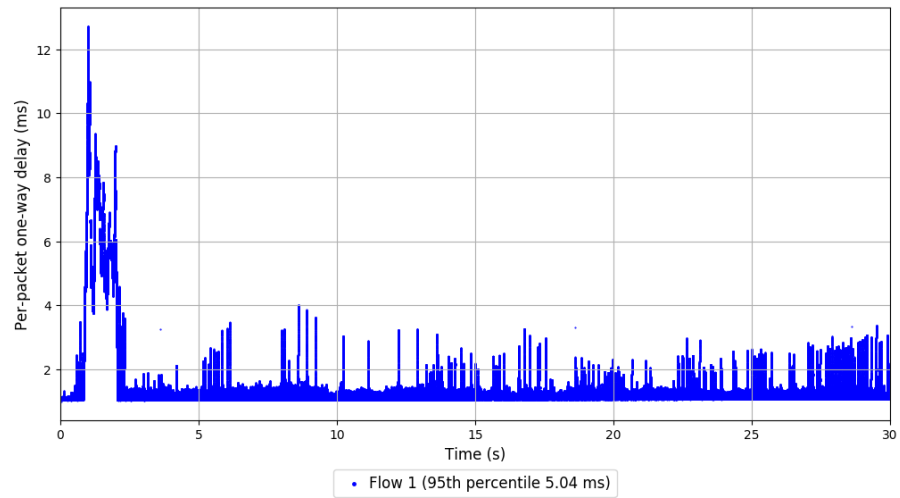
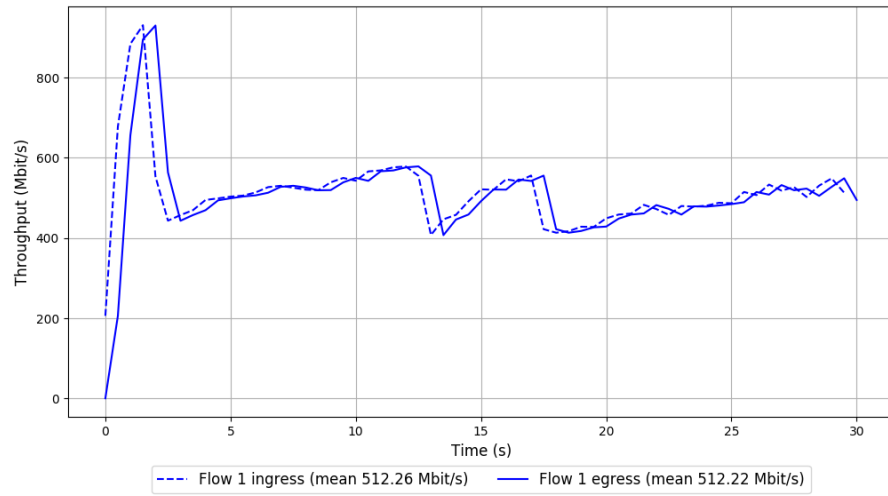
-- Flow 1:

Average throughput: 512.22 Mbit/s

95th percentile per-packet one-way delay: 5.041 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

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

End at: 2018-07-04 04:40:34

Local clock offset: 2.124 ms

Remote clock offset: -0.84 ms

Below is generated by plot.py at 2018-07-04 07:52:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.99 Mbit/s

95th percentile per-packet one-way delay: 1.410 ms

Loss rate: 0.07%

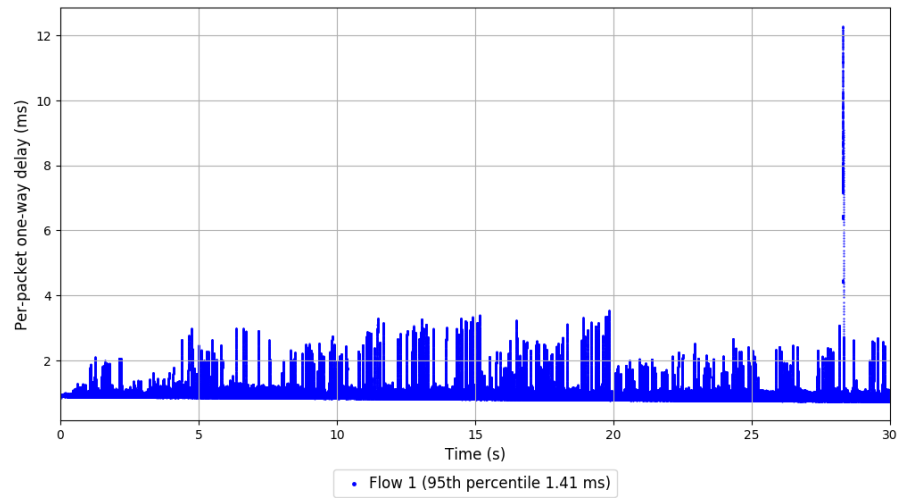
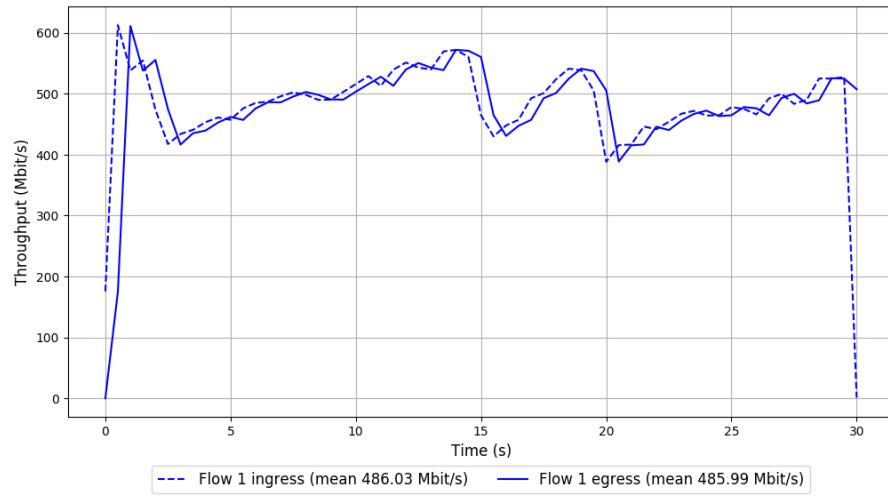
-- Flow 1:

Average throughput: 485.99 Mbit/s

95th percentile per-packet one-way delay: 1.410 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link

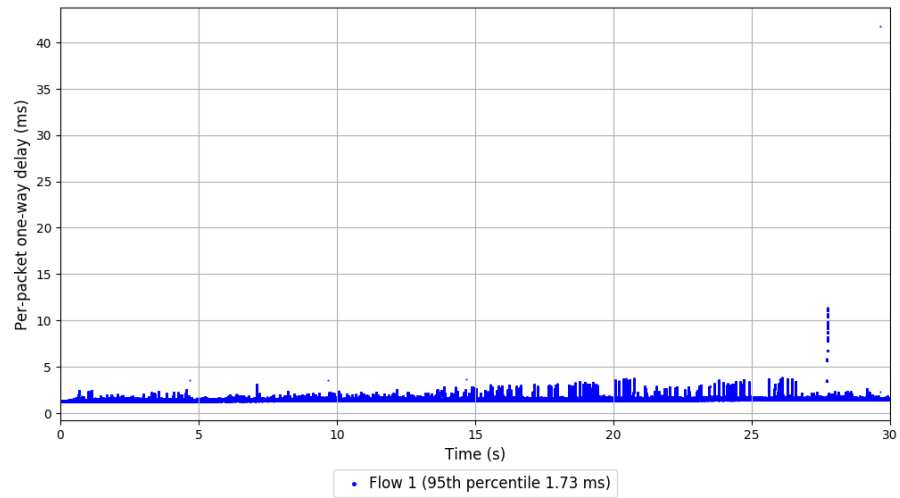
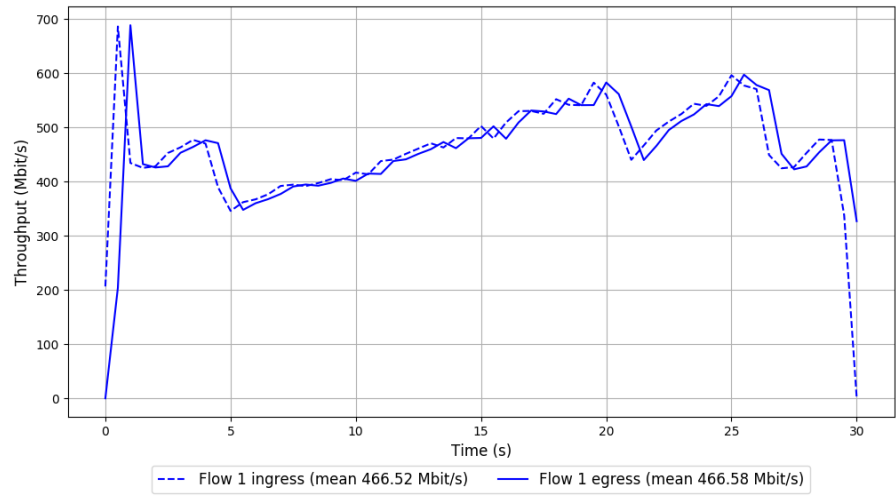


Run 6: Statistics of TCP Cubic

Start at: 2018-07-04 05:05:58
End at: 2018-07-04 05:06:28
Local clock offset: 3.727 ms
Remote clock offset: -0.778 ms

Below is generated by plot.py at 2018-07-04 07:52:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 466.58 Mbit/s
95th percentile per-packet one-way delay: 1.728 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 466.58 Mbit/s
95th percentile per-packet one-way delay: 1.728 ms
Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link

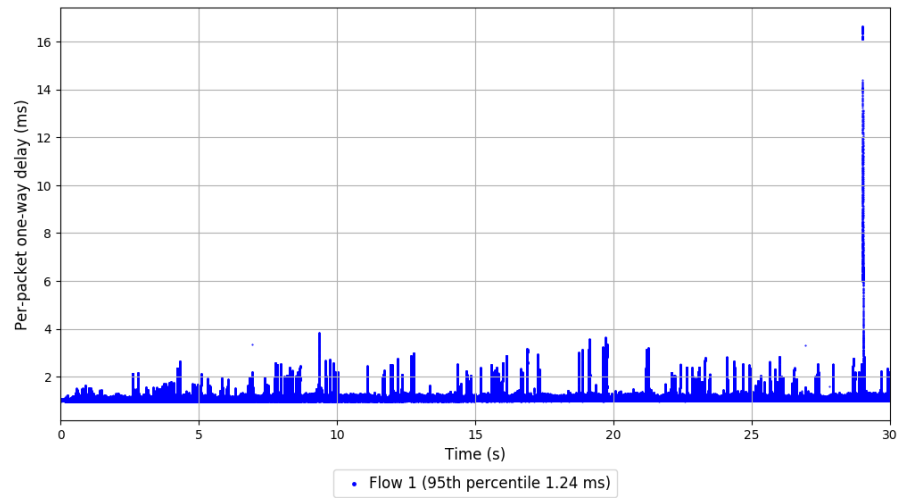
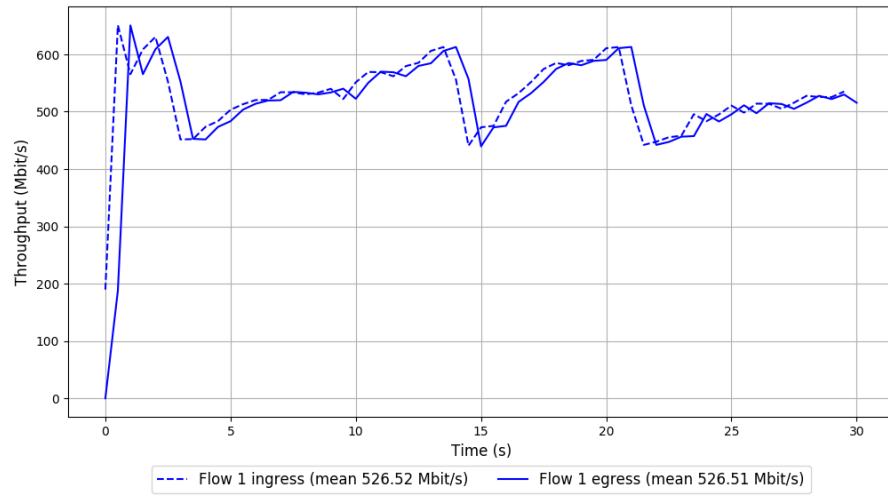


Run 7: Statistics of TCP Cubic

Start at: 2018-07-04 05:31:58
End at: 2018-07-04 05:32:28
Local clock offset: 0.578 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-07-04 07:53:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 526.51 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 526.51 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link

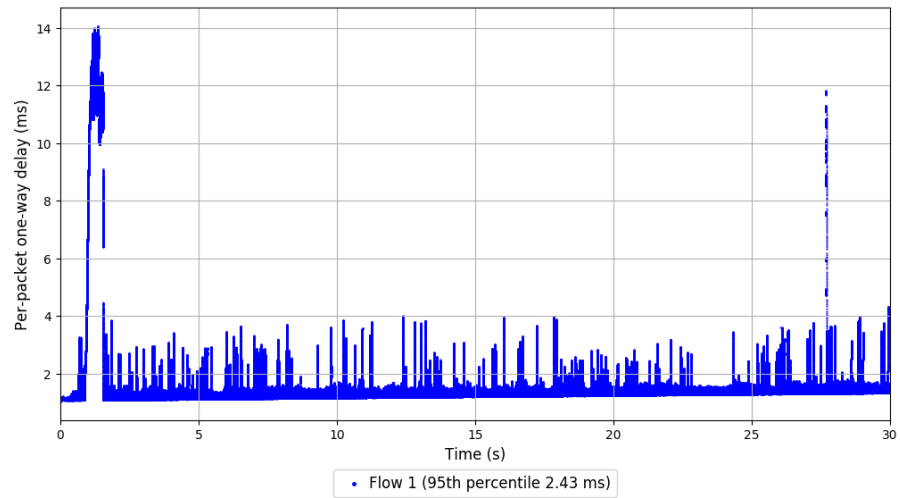
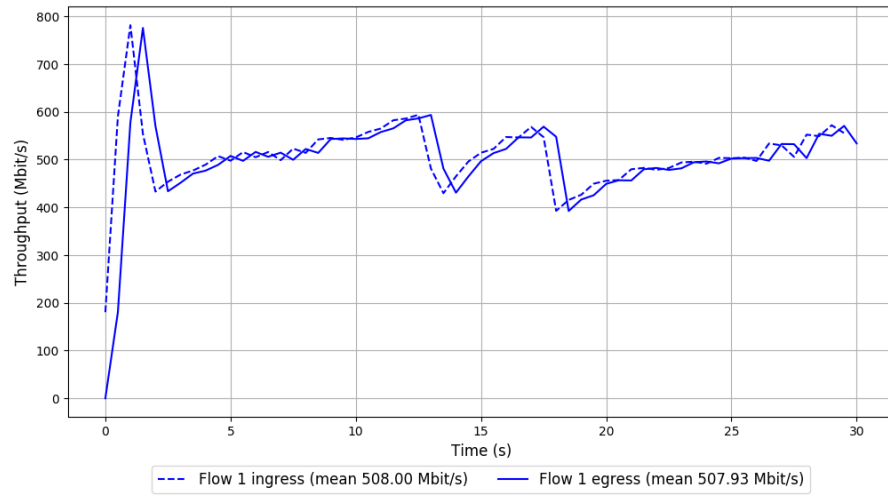


Run 8: Statistics of TCP Cubic

Start at: 2018-07-04 05:57:41
End at: 2018-07-04 05:58:11
Local clock offset: -0.405 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2018-07-04 07:53:27
Datalink statistics
-- Total of 1 flow:
Average throughput: 507.93 Mbit/s
95th percentile per-packet one-way delay: 2.426 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 507.93 Mbit/s
95th percentile per-packet one-way delay: 2.426 ms
Loss rate: 0.08%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-04 06:23:43

End at: 2018-07-04 06:24:13

Local clock offset: 0.193 ms

Remote clock offset: 4.923 ms

Below is generated by plot.py at 2018-07-04 07:55:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.87 Mbit/s

95th percentile per-packet one-way delay: 1.565 ms

Loss rate: 0.07%

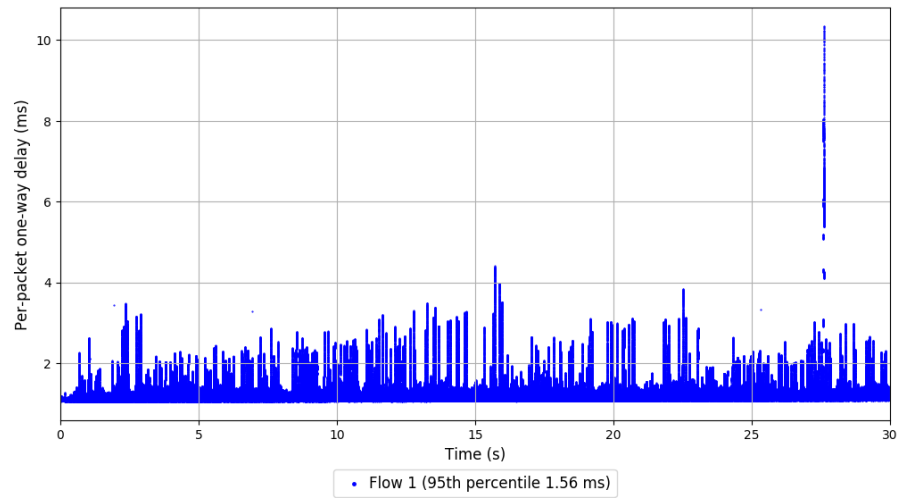
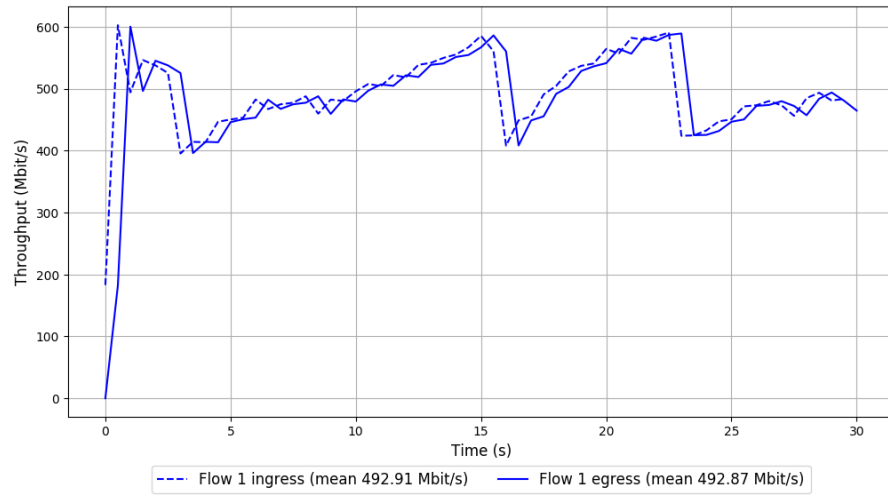
-- Flow 1:

Average throughput: 492.87 Mbit/s

95th percentile per-packet one-way delay: 1.565 ms

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-04 06:49:42

End at: 2018-07-04 06:50:12

Local clock offset: -2.916 ms

Remote clock offset: -0.546 ms

Below is generated by plot.py at 2018-07-04 07:55:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.66 Mbit/s

95th percentile per-packet one-way delay: 2.488 ms

Loss rate: 0.05%

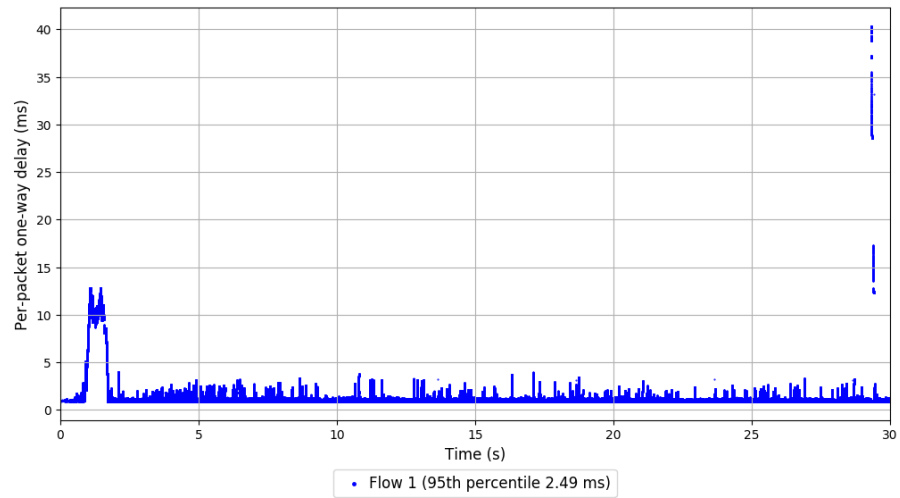
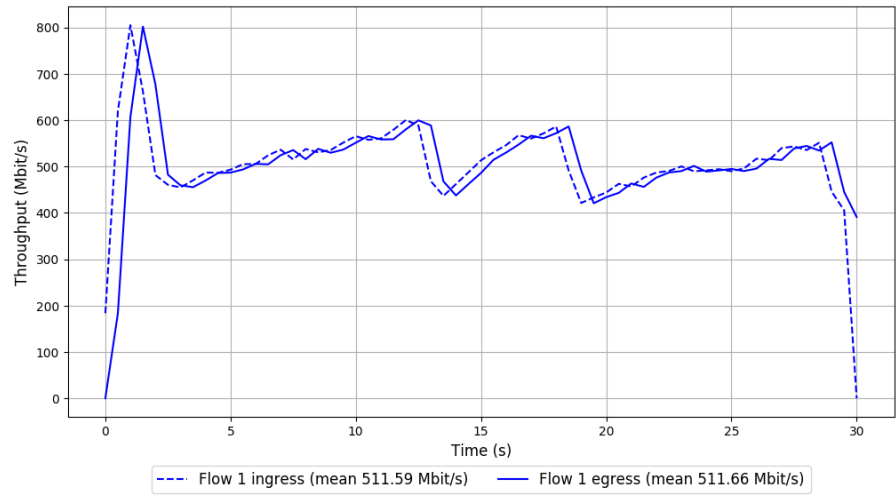
-- Flow 1:

Average throughput: 511.66 Mbit/s

95th percentile per-packet one-way delay: 2.488 ms

Loss rate: 0.05%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-04 02:53:16

End at: 2018-07-04 02:53:46

Local clock offset: -3.628 ms

Remote clock offset: 4.011 ms

Below is generated by plot.py at 2018-07-04 08:02:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 882.39 Mbit/s

95th percentile per-packet one-way delay: 1.871 ms

Loss rate: 0.06%

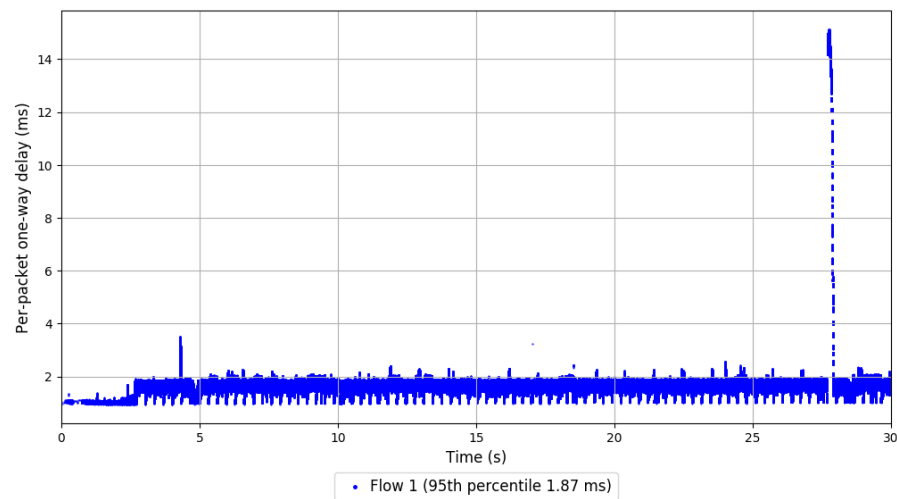
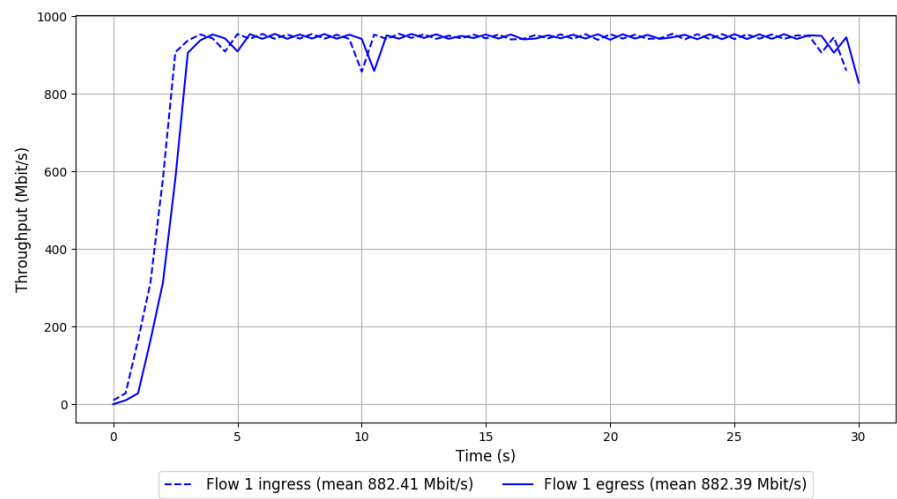
-- Flow 1:

Average throughput: 882.39 Mbit/s

95th percentile per-packet one-way delay: 1.871 ms

Loss rate: 0.06%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-04 03:19:09

End at: 2018-07-04 03:19:39

Local clock offset: -0.3 ms

Remote clock offset: 1.45 ms

Below is generated by plot.py at 2018-07-04 08:03:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 930.54 Mbit/s

95th percentile per-packet one-way delay: 1.575 ms

Loss rate: 0.08%

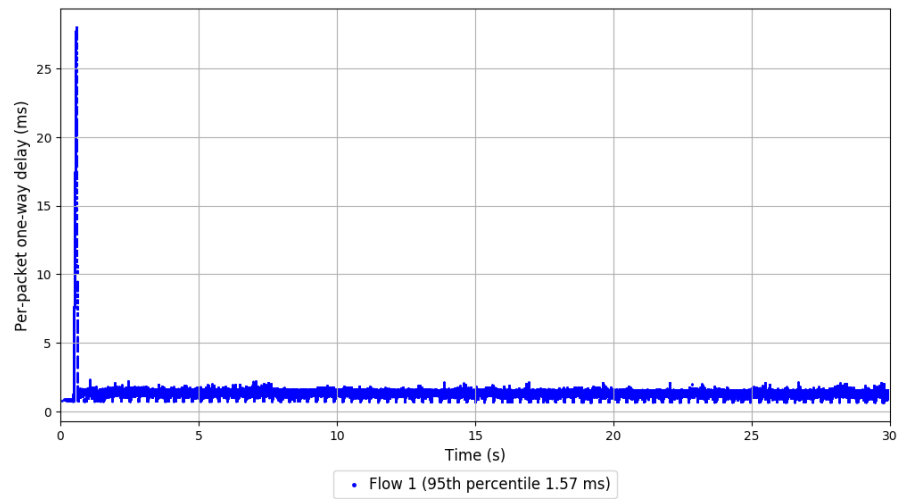
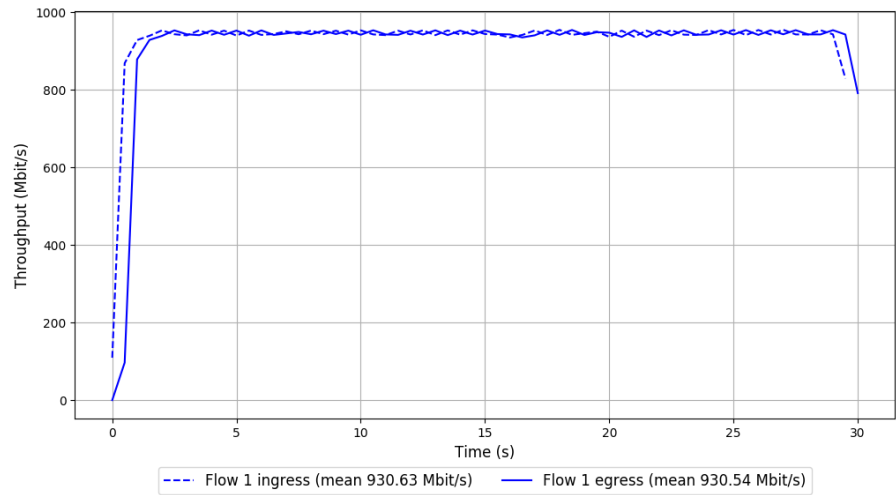
-- Flow 1:

Average throughput: 930.54 Mbit/s

95th percentile per-packet one-way delay: 1.575 ms

Loss rate: 0.08%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-04 03:45:00

End at: 2018-07-04 03:45:30

Local clock offset: 0.452 ms

Remote clock offset: 1.755 ms

Below is generated by plot.py at 2018-07-04 08:05:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 930.79 Mbit/s

95th percentile per-packet one-way delay: 1.861 ms

Loss rate: 0.07%

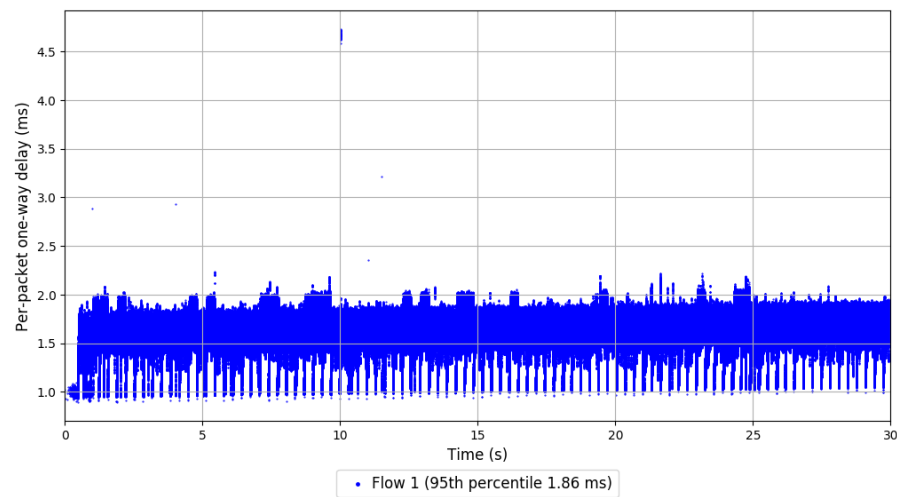
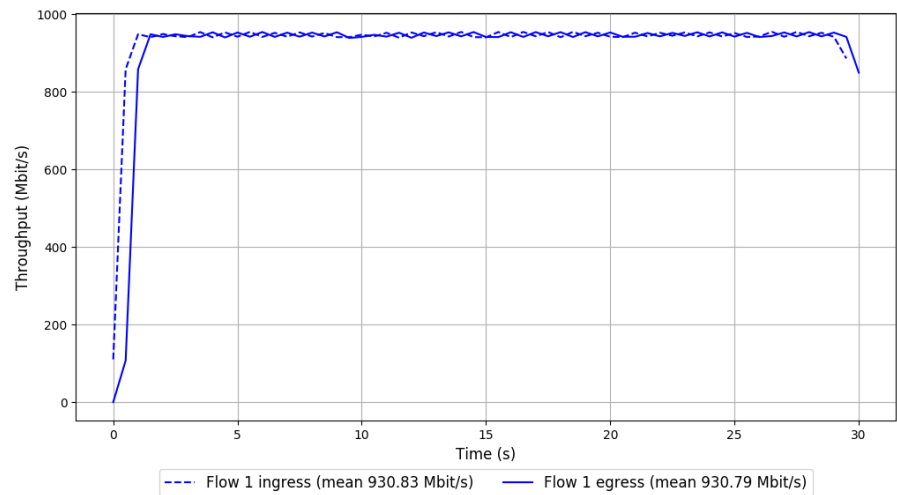
-- Flow 1:

Average throughput: 930.79 Mbit/s

95th percentile per-packet one-way delay: 1.861 ms

Loss rate: 0.07%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-04 04:10:58

End at: 2018-07-04 04:11:28

Local clock offset: 0.229 ms

Remote clock offset: 4.491 ms

Below is generated by plot.py at 2018-07-04 08:05:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.35 Mbit/s

95th percentile per-packet one-way delay: 1.852 ms

Loss rate: 0.07%

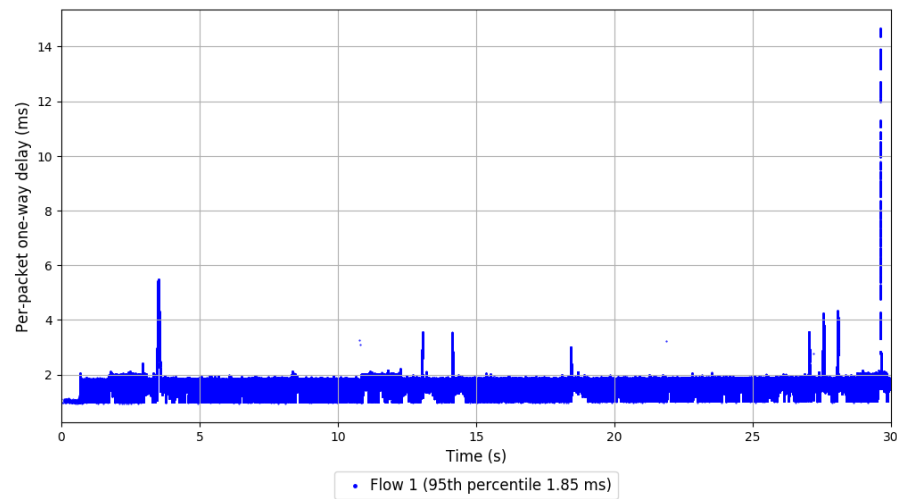
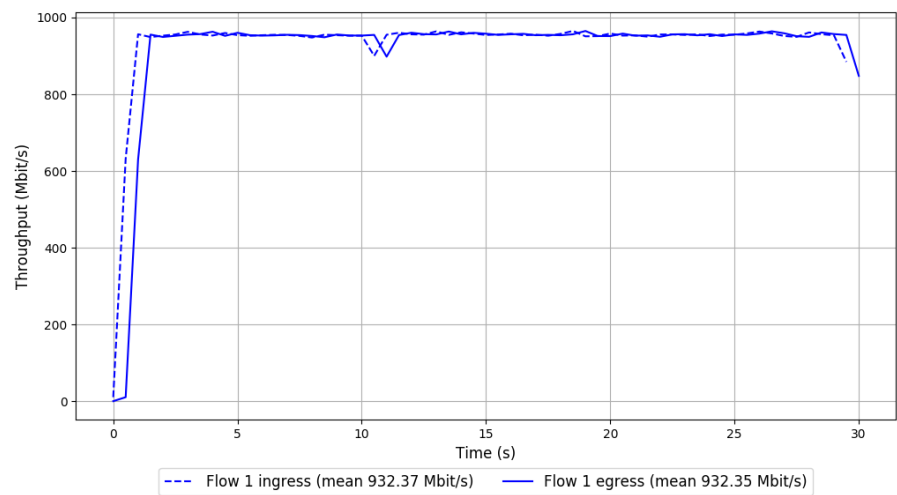
-- Flow 1:

Average throughput: 932.35 Mbit/s

95th percentile per-packet one-way delay: 1.852 ms

Loss rate: 0.07%

Run 4: Report of FillP — Data Link

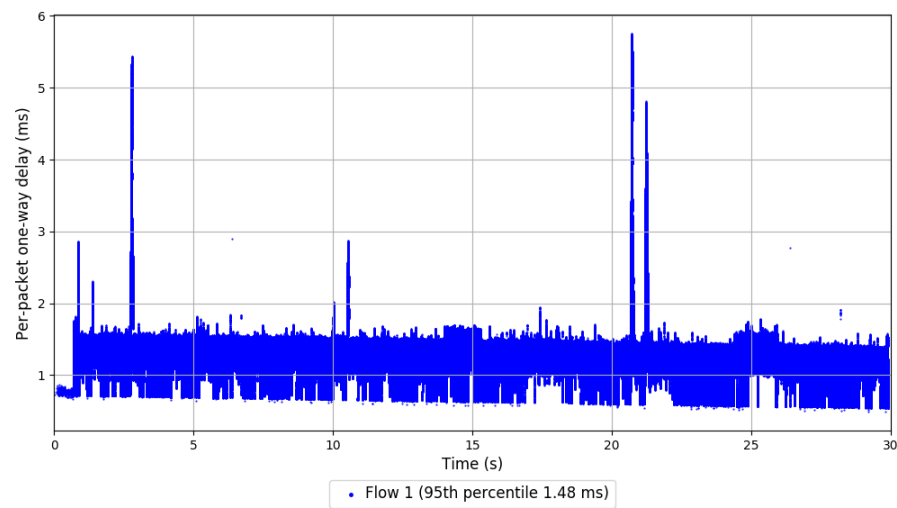
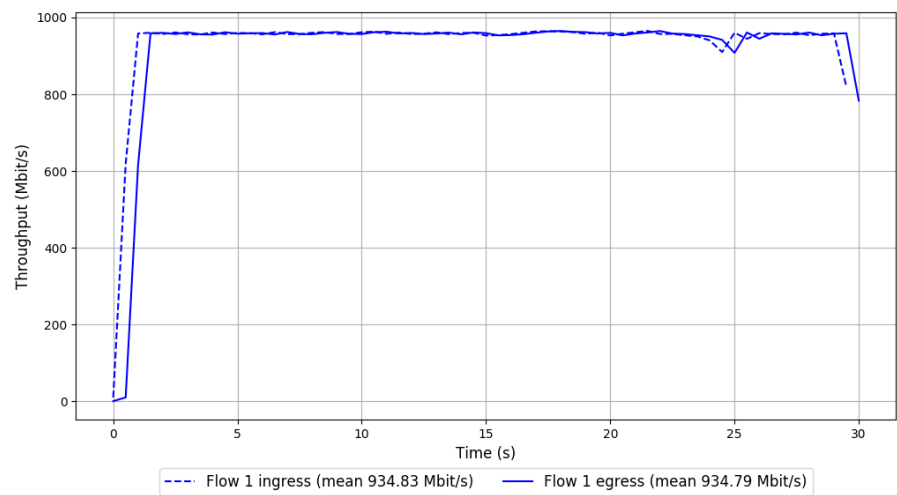


Run 5: Statistics of FillP

Start at: 2018-07-04 04:36:59
End at: 2018-07-04 04:37:29
Local clock offset: 1.207 ms
Remote clock offset: -0.588 ms

Below is generated by plot.py at 2018-07-04 08:06:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 934.79 Mbit/s
95th percentile per-packet one-way delay: 1.484 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 934.79 Mbit/s
95th percentile per-packet one-way delay: 1.484 ms
Loss rate: 0.07%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-04 05:02:55

End at: 2018-07-04 05:03:26

Local clock offset: 4.838 ms

Remote clock offset: -0.767 ms

Below is generated by plot.py at 2018-07-04 08:06:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 933.61 Mbit/s

95th percentile per-packet one-way delay: 2.081 ms

Loss rate: 0.07%

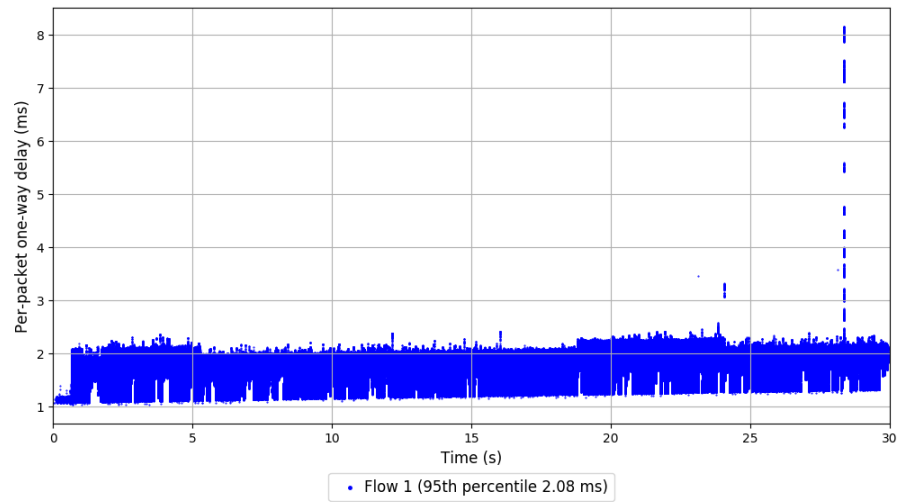
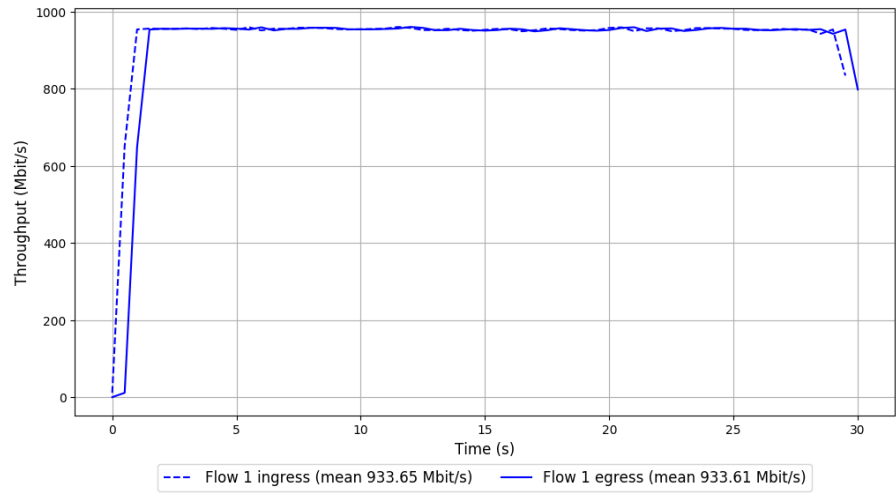
-- Flow 1:

Average throughput: 933.61 Mbit/s

95th percentile per-packet one-way delay: 2.081 ms

Loss rate: 0.07%

Run 6: Report of FillP — Data Link

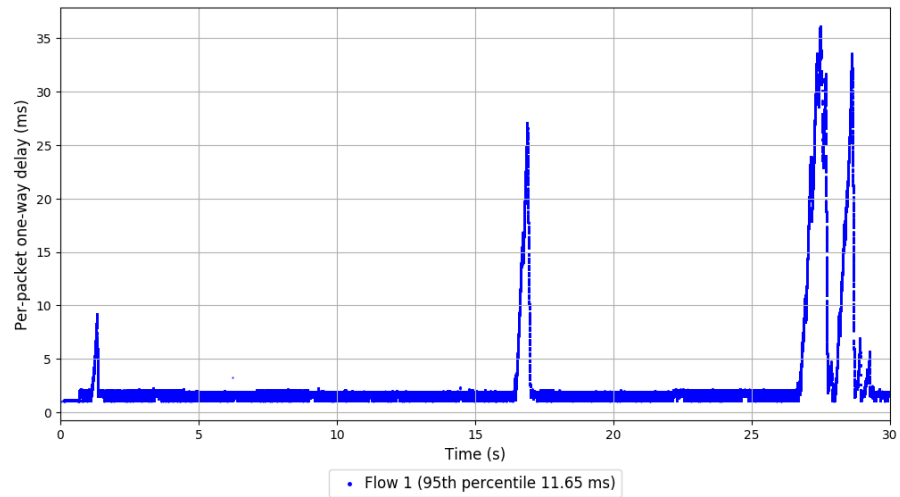
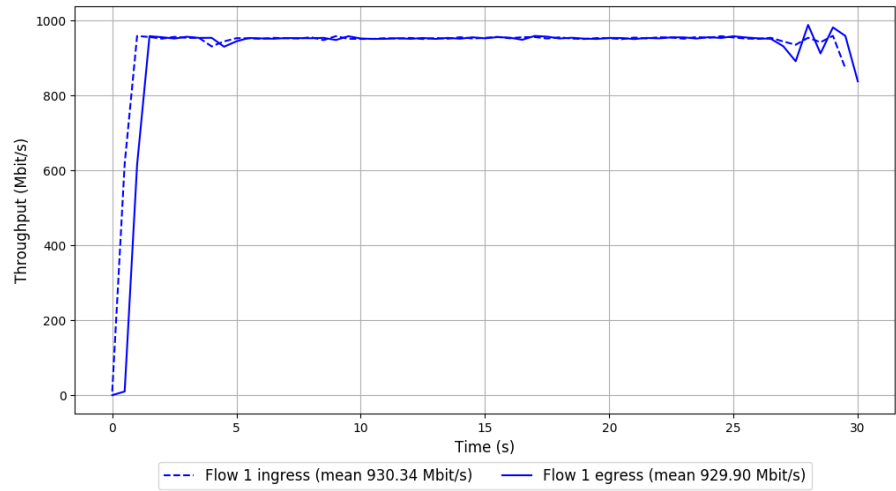


Run 7: Statistics of FillP

Start at: 2018-07-04 05:28:50
End at: 2018-07-04 05:29:20
Local clock offset: 0.733 ms
Remote clock offset: -0.644 ms

Below is generated by plot.py at 2018-07-04 08:08:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 929.90 Mbit/s
95th percentile per-packet one-way delay: 11.654 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 929.90 Mbit/s
95th percentile per-packet one-way delay: 11.654 ms
Loss rate: 0.11%

Run 7: Report of FillP — Data Link

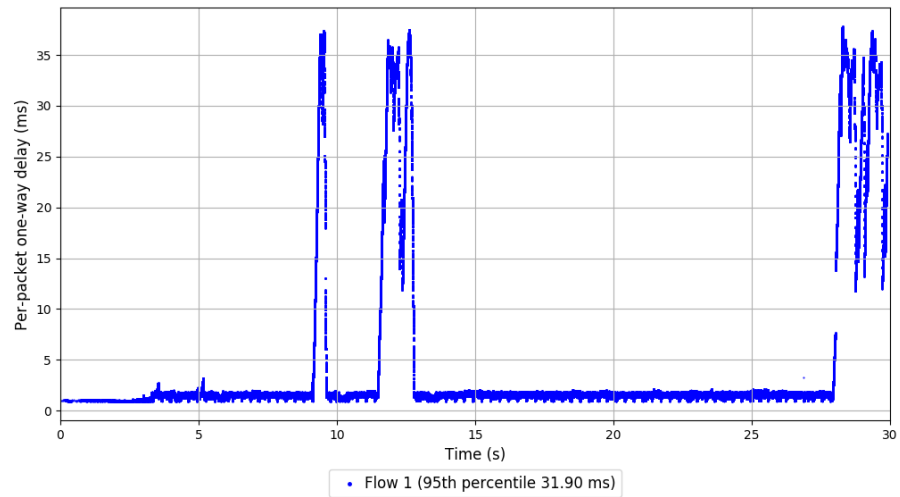
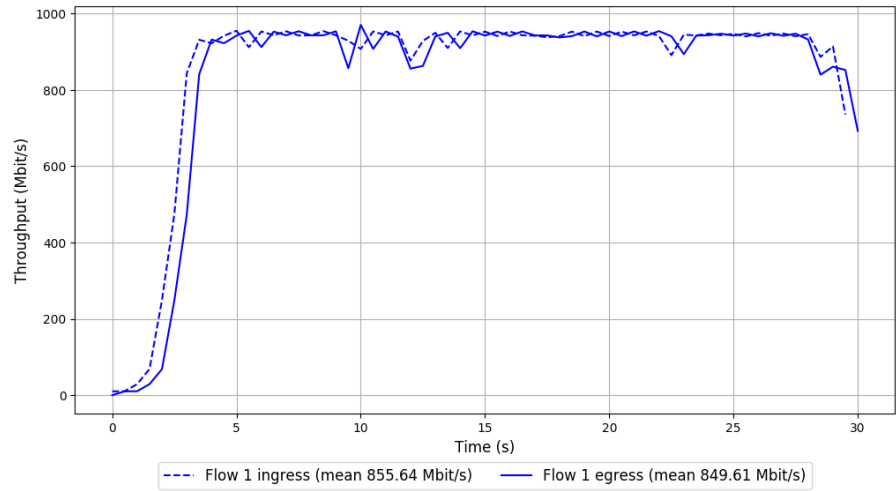


Run 8: Statistics of FillP

Start at: 2018-07-04 05:54:42
End at: 2018-07-04 05:55:12
Local clock offset: -0.444 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-07-04 08:08:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 849.61 Mbit/s
95th percentile per-packet one-way delay: 31.902 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 849.61 Mbit/s
95th percentile per-packet one-way delay: 31.902 ms
Loss rate: 0.77%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-04 06:20:37

End at: 2018-07-04 06:21:07

Local clock offset: 0.176 ms

Remote clock offset: 4.681 ms

Below is generated by plot.py at 2018-07-04 08:14:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 871.85 Mbit/s

95th percentile per-packet one-way delay: 24.844 ms

Loss rate: 0.49%

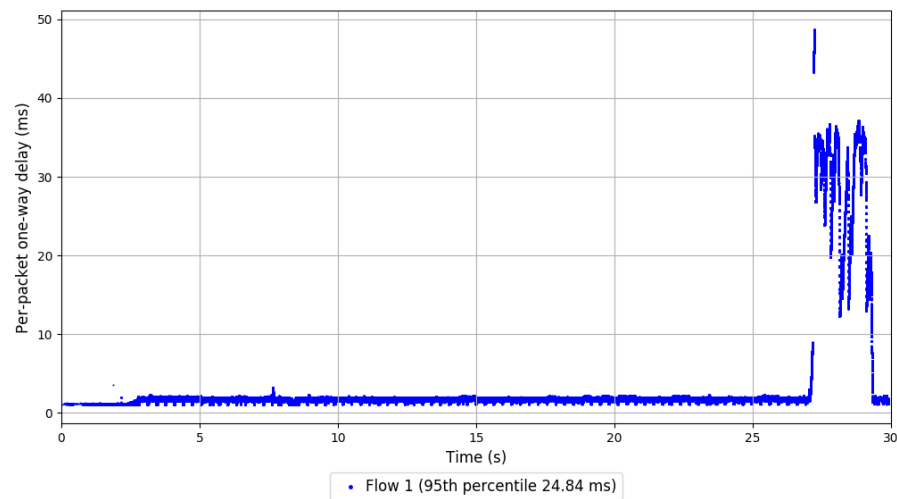
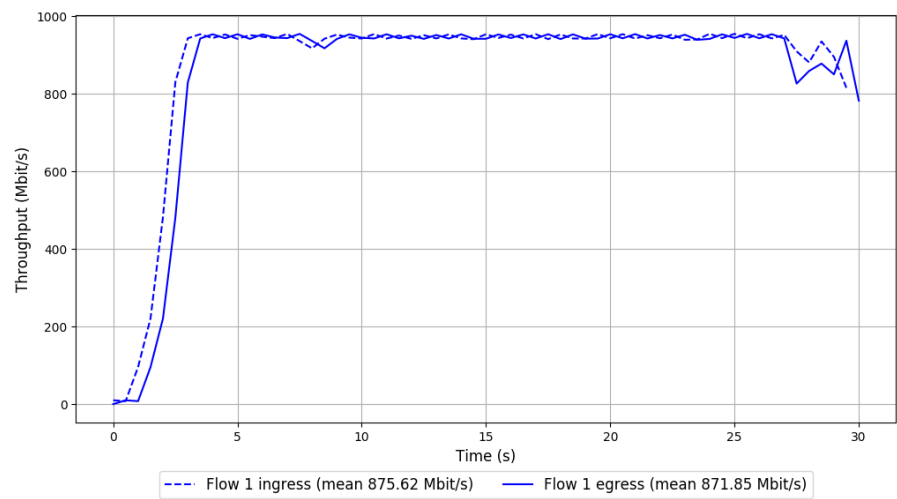
-- Flow 1:

Average throughput: 871.85 Mbit/s

95th percentile per-packet one-way delay: 24.844 ms

Loss rate: 0.49%

Run 9: Report of FillP — Data Link

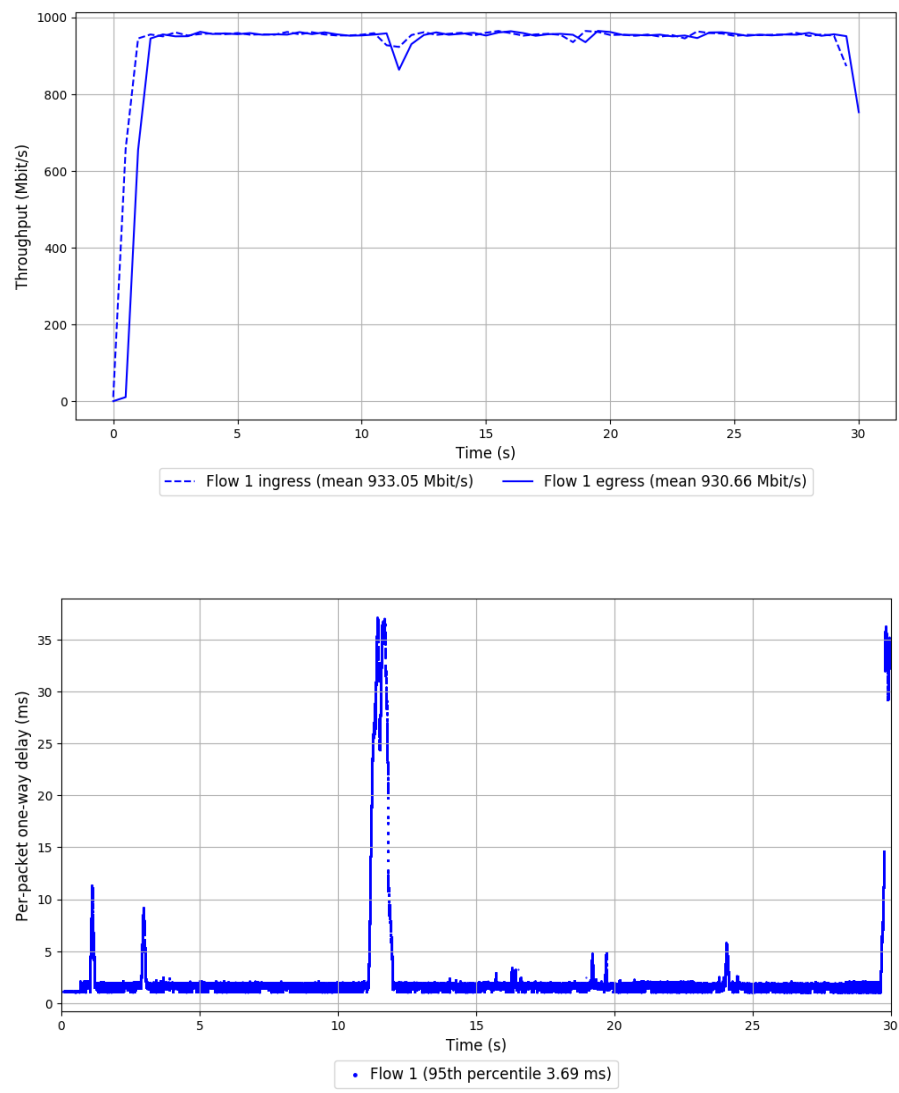


Run 10: Statistics of FillP

Start at: 2018-07-04 06:46:36
End at: 2018-07-04 06:47:06
Local clock offset: -2.502 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-07-04 08:17:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 930.66 Mbit/s
95th percentile per-packet one-way delay: 3.688 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 930.66 Mbit/s
95th percentile per-packet one-way delay: 3.688 ms
Loss rate: 0.32%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-04 02:51:35

End at: 2018-07-04 02:52:05

Local clock offset: -3.609 ms

Remote clock offset: 3.748 ms

Below is generated by plot.py at 2018-07-04 08:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 907.79 Mbit/s

95th percentile per-packet one-way delay: 33.951 ms

Loss rate: 0.95%

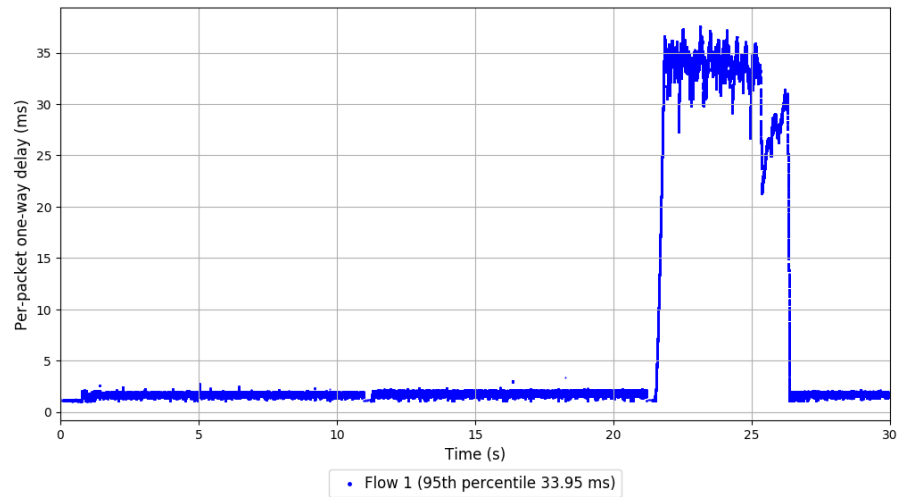
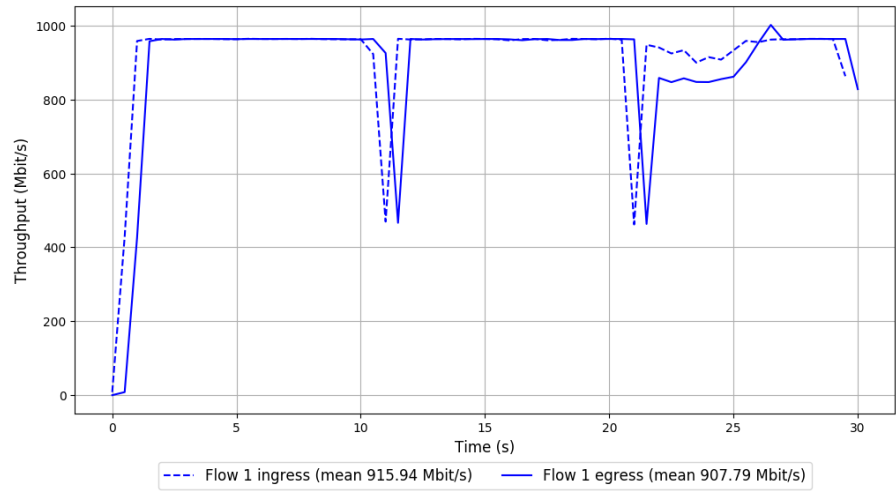
-- Flow 1:

Average throughput: 907.79 Mbit/s

95th percentile per-packet one-way delay: 33.951 ms

Loss rate: 0.95%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-04 03:17:27

End at: 2018-07-04 03:17:57

Local clock offset: -0.36 ms

Remote clock offset: 1.625 ms

Below is generated by plot.py at 2018-07-04 08:18:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.22 Mbit/s

95th percentile per-packet one-way delay: 1.704 ms

Loss rate: 0.07%

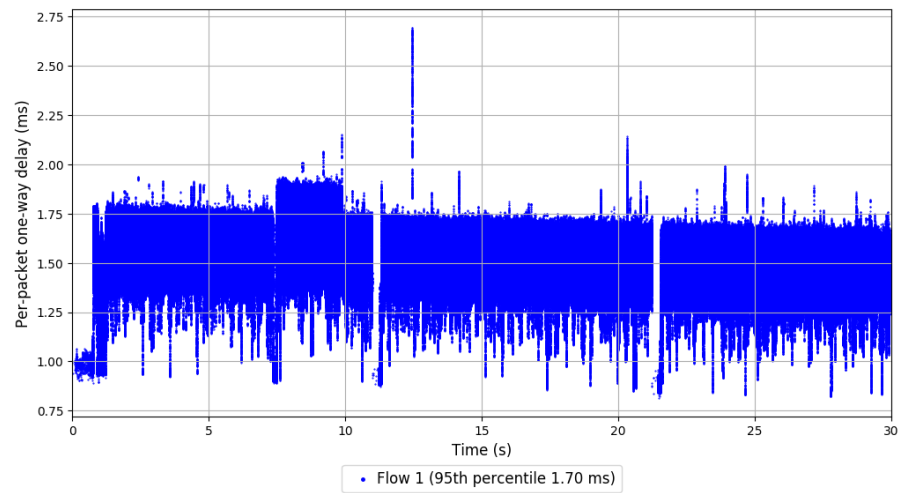
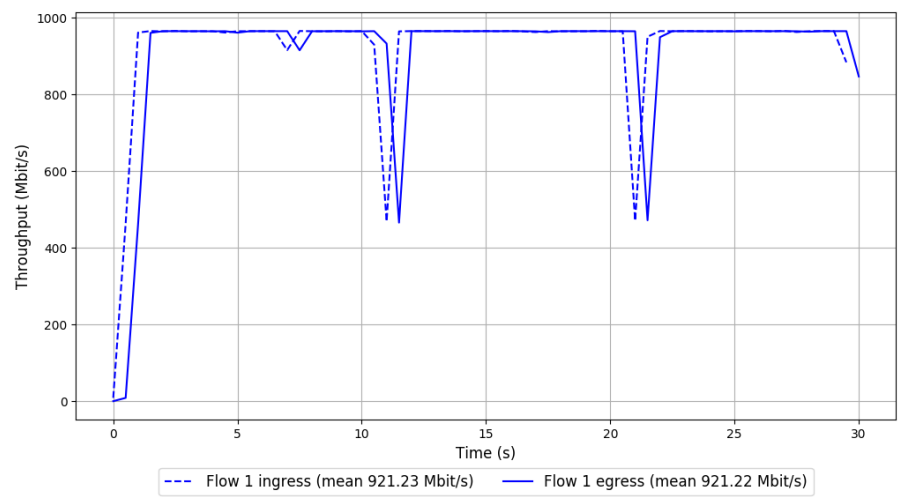
-- Flow 1:

Average throughput: 921.22 Mbit/s

95th percentile per-packet one-way delay: 1.704 ms

Loss rate: 0.07%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-04 03:43:19

End at: 2018-07-04 03:43:49

Local clock offset: 0.524 ms

Remote clock offset: 1.374 ms

Below is generated by plot.py at 2018-07-04 08:19:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.38 Mbit/s

95th percentile per-packet one-way delay: 13.215 ms

Loss rate: 0.31%

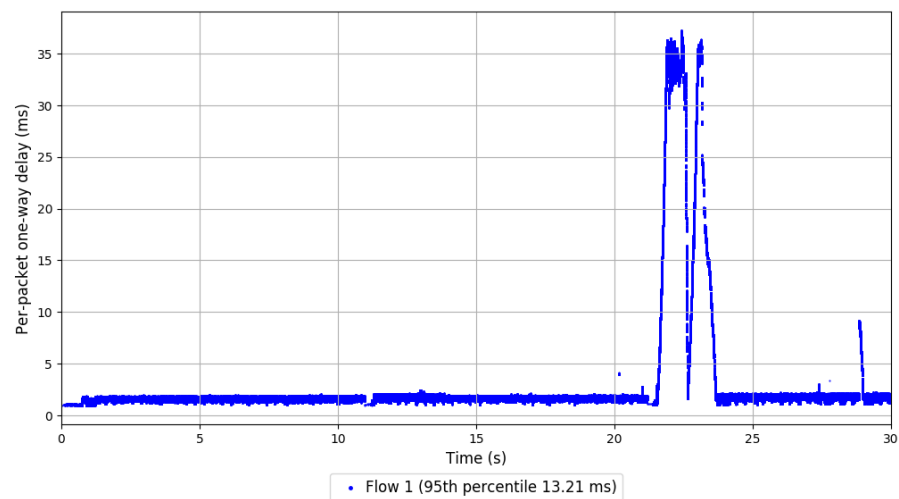
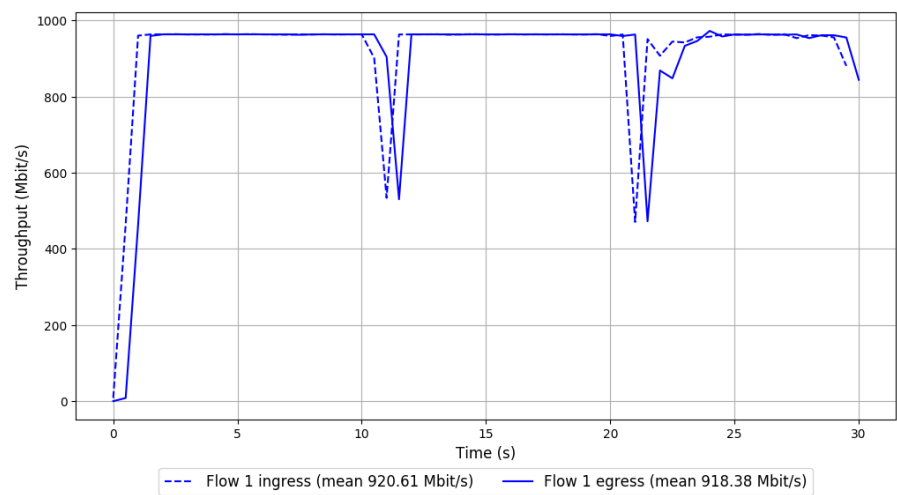
-- Flow 1:

Average throughput: 918.38 Mbit/s

95th percentile per-packet one-way delay: 13.215 ms

Loss rate: 0.31%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-04 04:09:16

End at: 2018-07-04 04:09:46

Local clock offset: 0.289 ms

Remote clock offset: 4.386 ms

Below is generated by plot.py at 2018-07-04 08:19:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.96 Mbit/s

95th percentile per-packet one-way delay: 34.382 ms

Loss rate: 0.68%

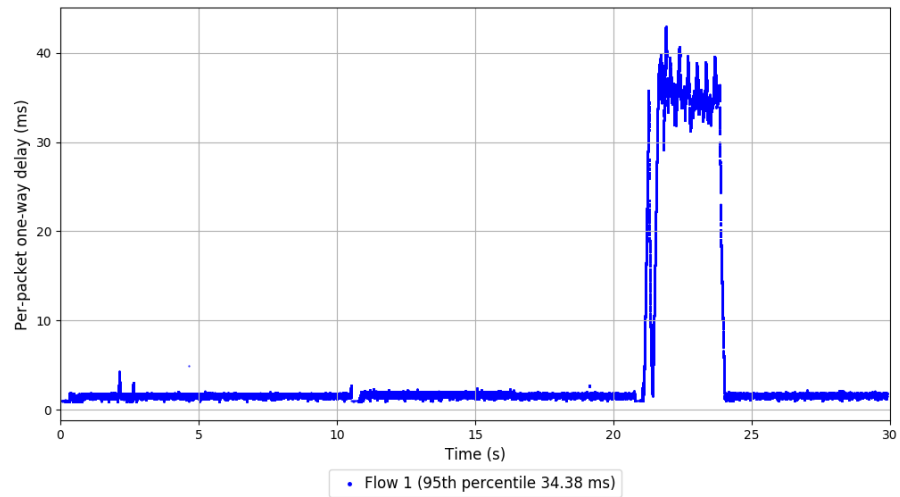
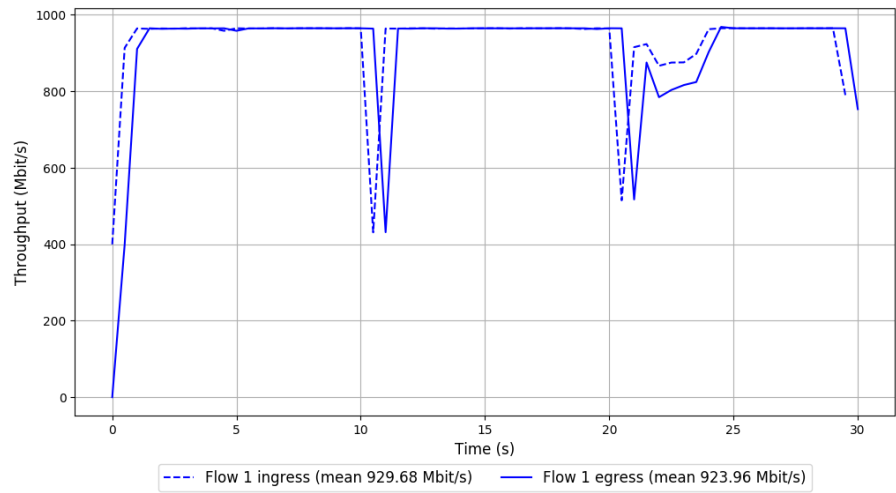
-- Flow 1:

Average throughput: 923.96 Mbit/s

95th percentile per-packet one-way delay: 34.382 ms

Loss rate: 0.68%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-04 04:35:18

End at: 2018-07-04 04:35:48

Local clock offset: 0.662 ms

Remote clock offset: -0.466 ms

Below is generated by plot.py at 2018-07-04 08:19:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.02 Mbit/s

95th percentile per-packet one-way delay: 43.753 ms

Loss rate: 11.06%

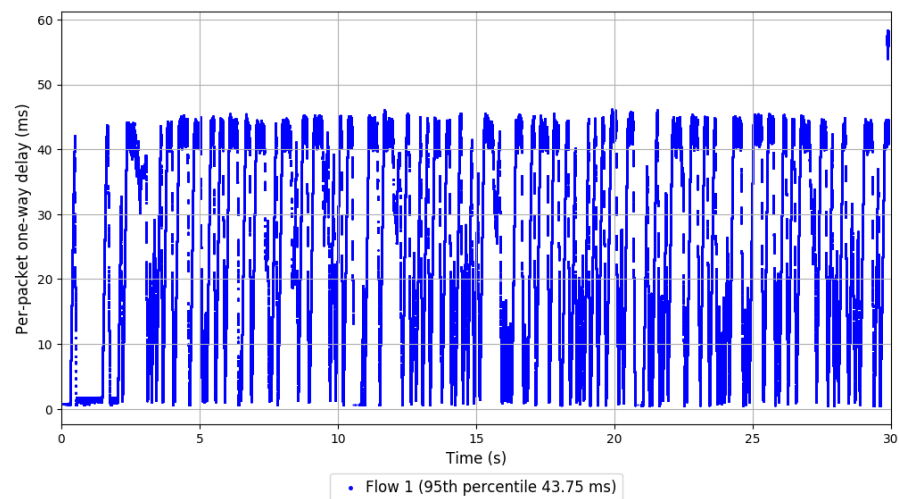
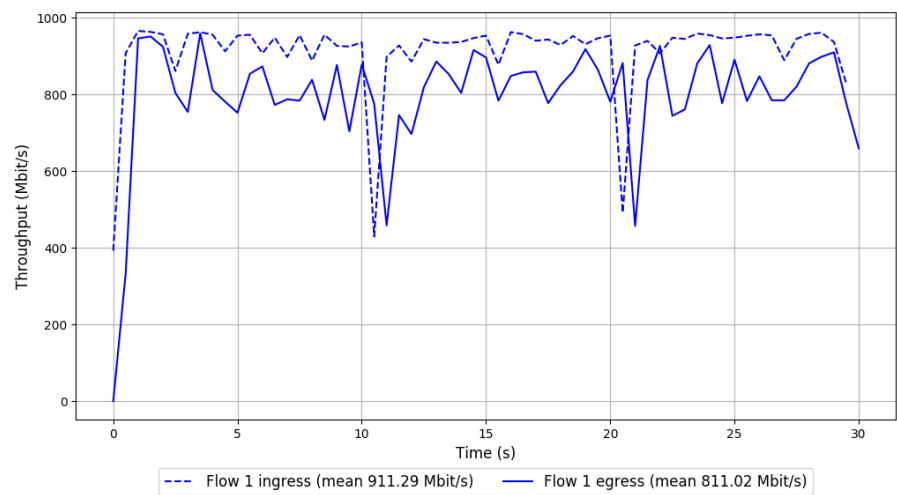
-- Flow 1:

Average throughput: 811.02 Mbit/s

95th percentile per-packet one-way delay: 43.753 ms

Loss rate: 11.06%

Run 5: Report of FillP-Sheep — Data Link

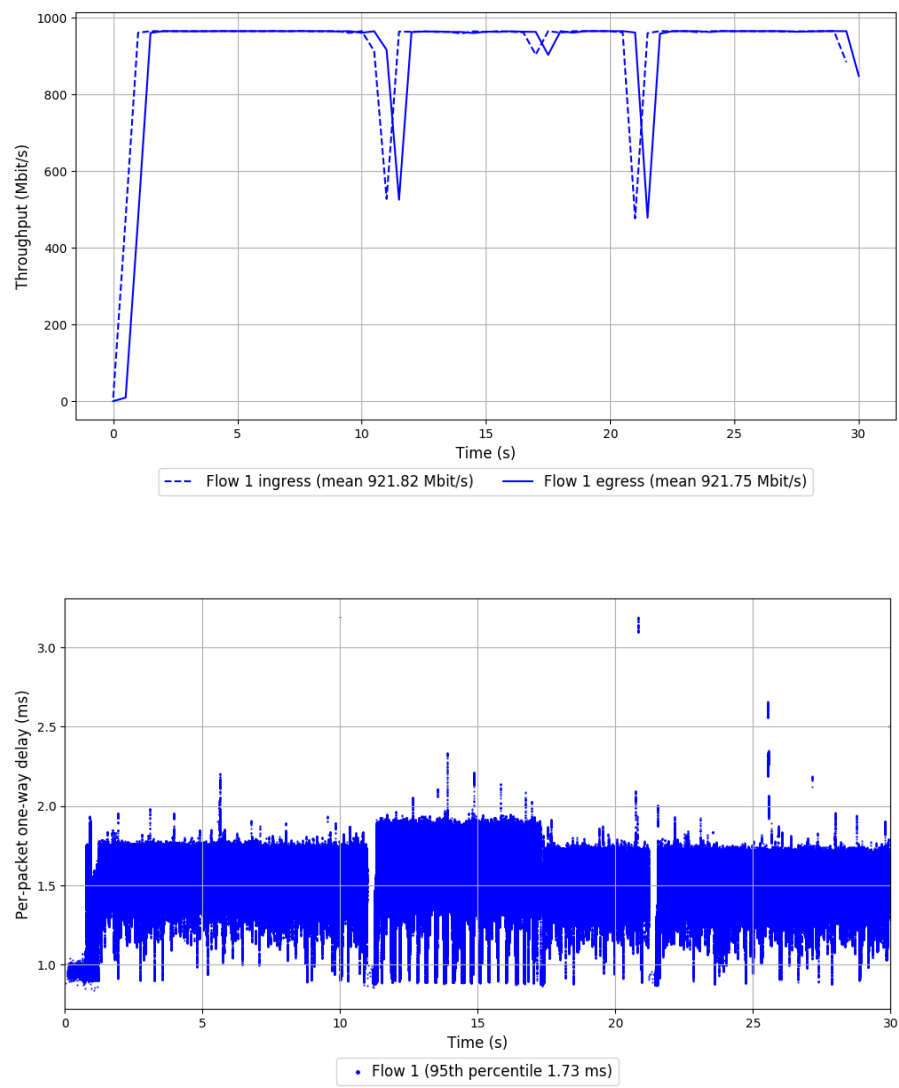


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-04 05:01:14
End at: 2018-07-04 05:01:44
Local clock offset: 4.622 ms
Remote clock offset: -0.804 ms

Below is generated by plot.py at 2018-07-04 08:21:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 921.75 Mbit/s
95th percentile per-packet one-way delay: 1.731 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 921.75 Mbit/s
95th percentile per-packet one-way delay: 1.731 ms
Loss rate: 0.07%

Run 6: Report of FillP-Sheep — Data Link

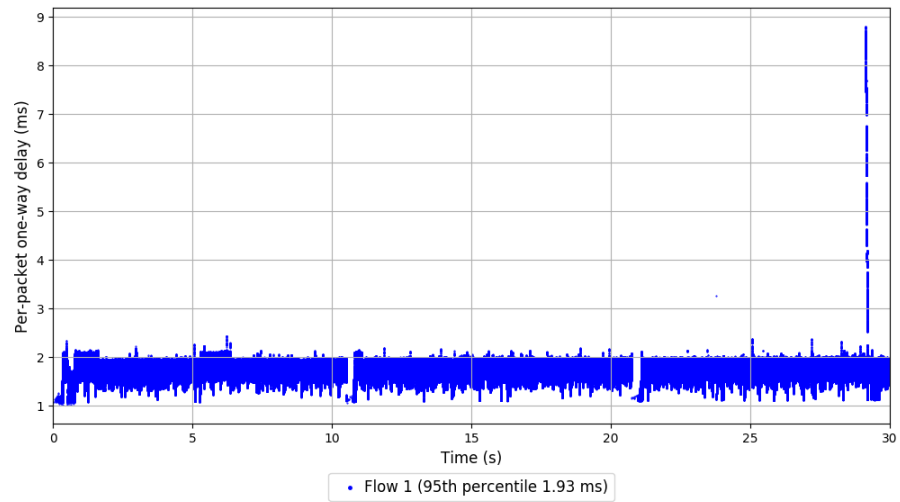
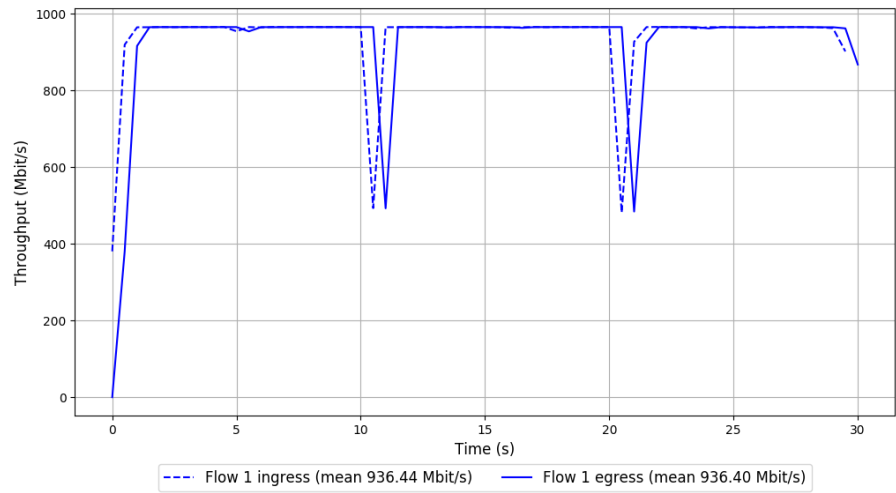


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-04 05:27:09
End at: 2018-07-04 05:27:39
Local clock offset: 0.778 ms
Remote clock offset: -0.759 ms

Below is generated by plot.py at 2018-07-04 08:28:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 936.40 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 936.40 Mbit/s
95th percentile per-packet one-way delay: 1.926 ms
Loss rate: 0.07%

Run 7: Report of FillP-Sheep — Data Link

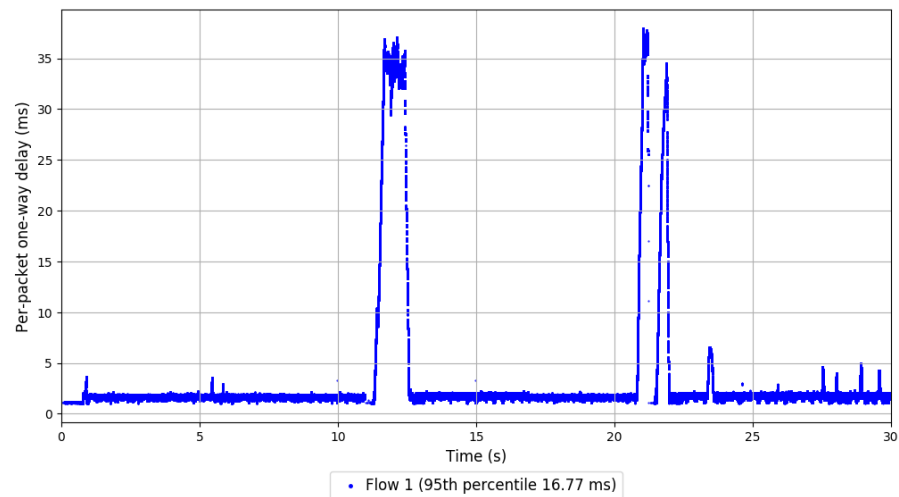
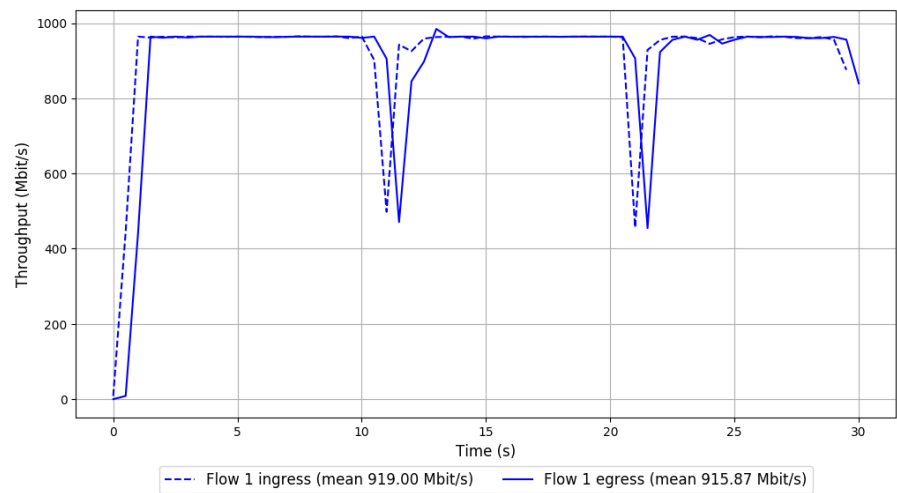


Run 8: Statistics of FillP-Sheep

Start at: 2018-07-04 05:53:00
End at: 2018-07-04 05:53:30
Local clock offset: -0.337 ms
Remote clock offset: -0.329 ms

Below is generated by plot.py at 2018-07-04 08:29:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 915.87 Mbit/s
95th percentile per-packet one-way delay: 16.765 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 915.87 Mbit/s
95th percentile per-packet one-way delay: 16.765 ms
Loss rate: 0.41%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-04 06:18:55

End at: 2018-07-04 06:19:25

Local clock offset: 0.151 ms

Remote clock offset: 4.618 ms

Below is generated by plot.py at 2018-07-04 08:30:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.83 Mbit/s

95th percentile per-packet one-way delay: 1.773 ms

Loss rate: 0.07%

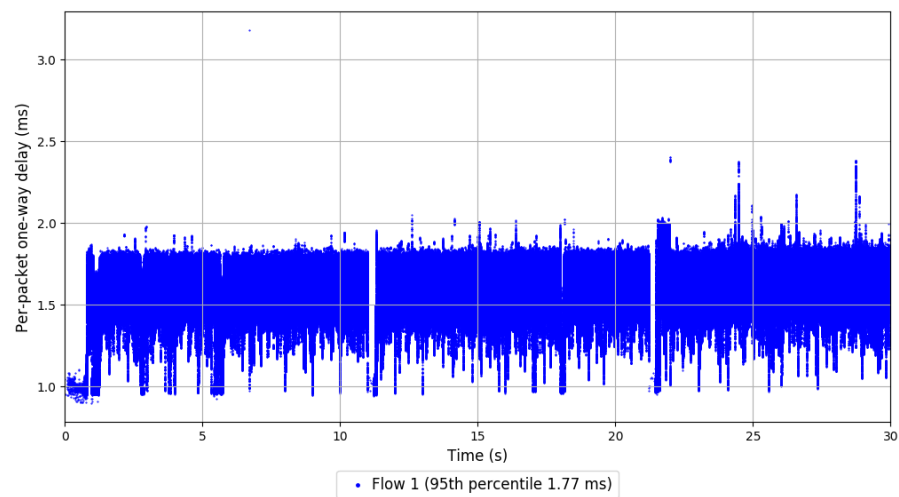
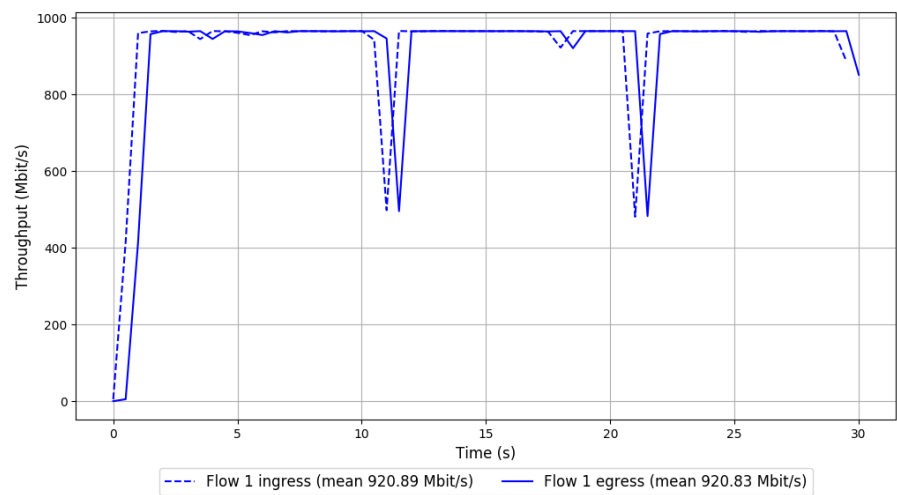
-- Flow 1:

Average throughput: 920.83 Mbit/s

95th percentile per-packet one-way delay: 1.773 ms

Loss rate: 0.07%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-04 06:44:54

End at: 2018-07-04 06:45:24

Local clock offset: -2.293 ms

Remote clock offset: 0.251 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.36 Mbit/s

95th percentile per-packet one-way delay: 2.008 ms

Loss rate: 0.07%

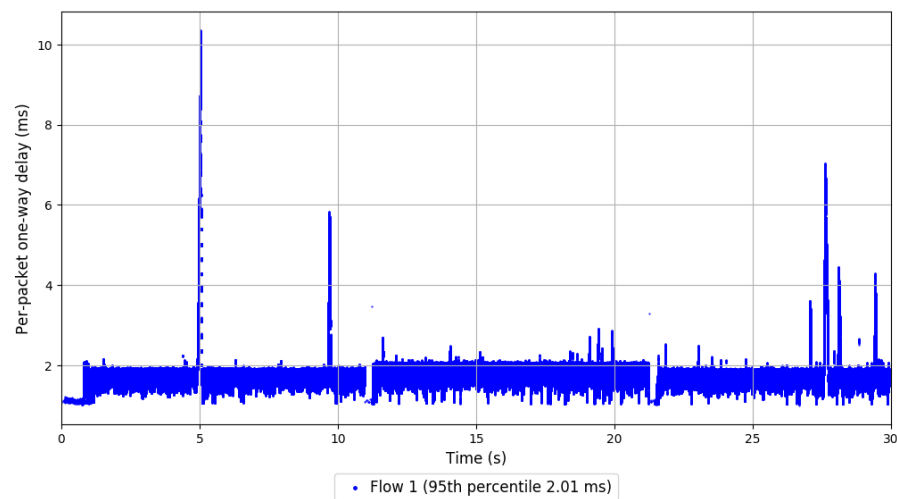
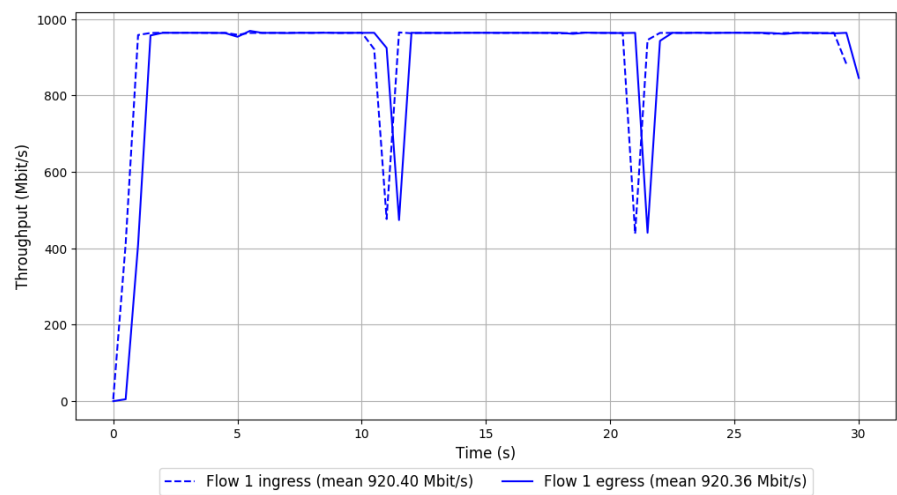
-- Flow 1:

Average throughput: 920.36 Mbit/s

95th percentile per-packet one-way delay: 2.008 ms

Loss rate: 0.07%

Run 10: Report of FillP-Sheep — Data Link

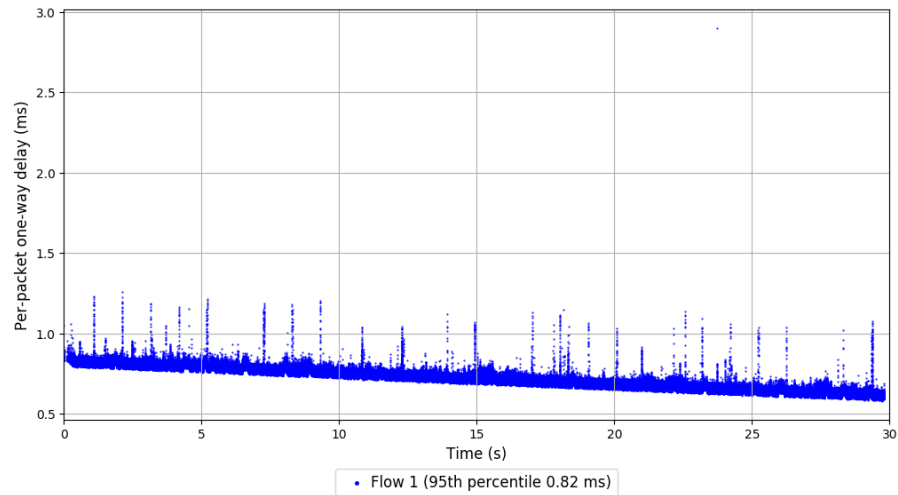
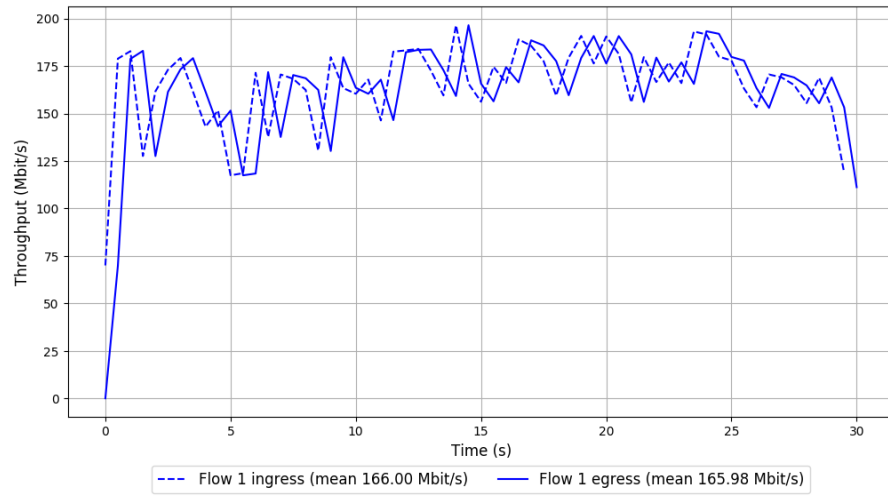


```
Run 1: Statistics of Indigo

Start at: 2018-07-04 03:13:05
End at: 2018-07-04 03:13:35
Local clock offset: -1.053 ms
Remote clock offset: 2.544 ms

# Below is generated by plot.py at 2018-07-04 08:30:58
# Datalink statistics
-- Total of 1 flow:
Average throughput: 165.98 Mbit/s
95th percentile per-packet one-way delay: 0.821 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 165.98 Mbit/s
95th percentile per-packet one-way delay: 0.821 ms
Loss rate: 0.08%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-04 03:38:57

End at: 2018-07-04 03:39:27

Local clock offset: 0.507 ms

Remote clock offset: 0.639 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.73 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.07%

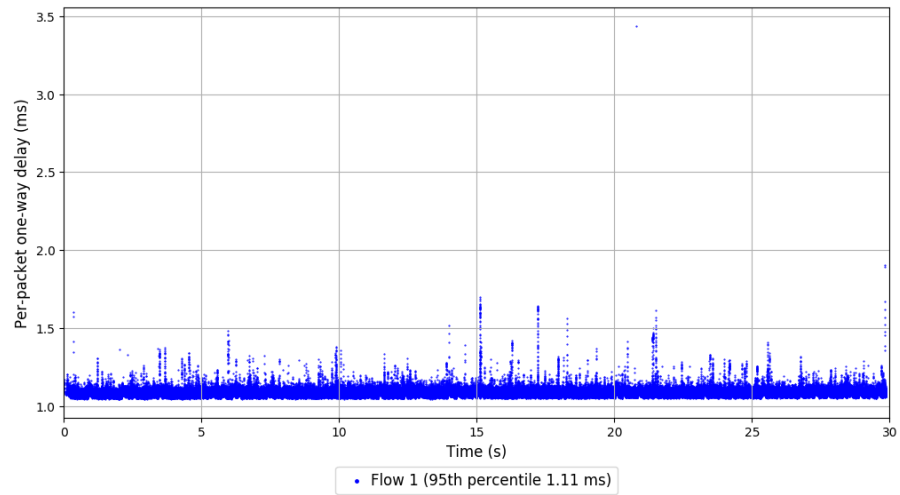
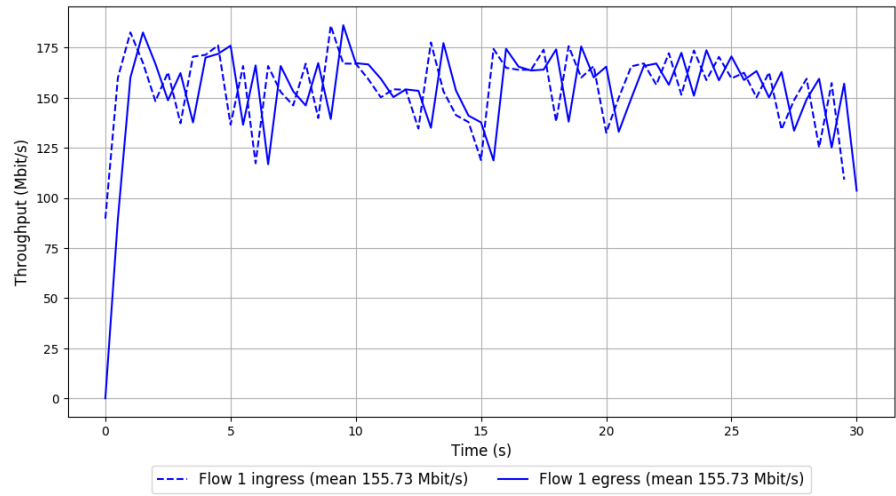
-- Flow 1:

Average throughput: 155.73 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-04 04:04:55

End at: 2018-07-04 04:05:25

Local clock offset: 0.513 ms

Remote clock offset: 4.099 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.44 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.08%

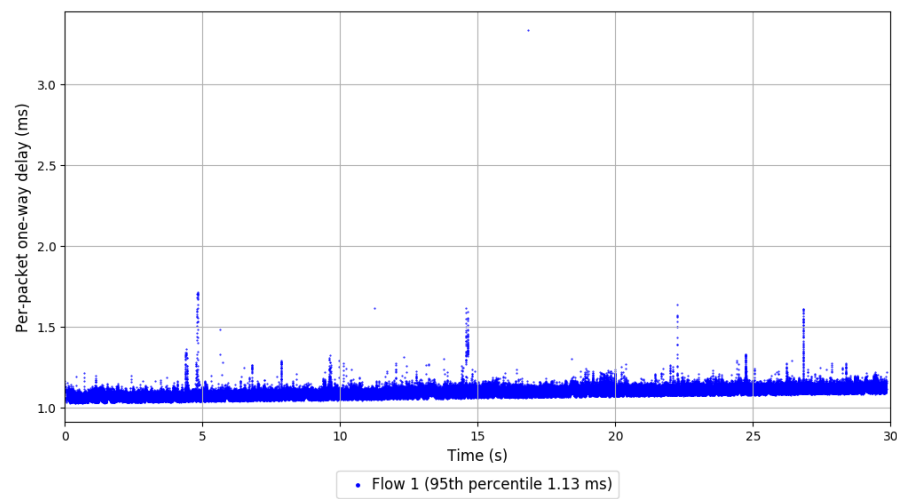
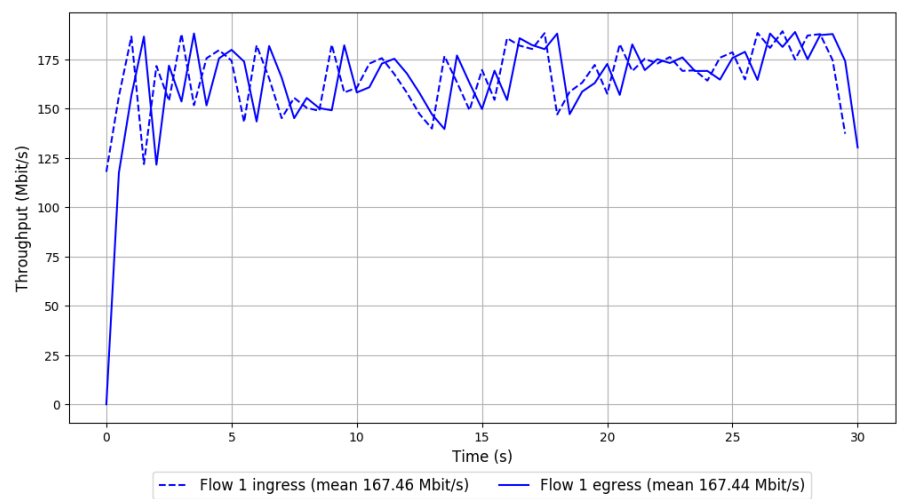
-- Flow 1:

Average throughput: 167.44 Mbit/s

95th percentile per-packet one-way delay: 1.130 ms

Loss rate: 0.08%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-04 04:30:57

End at: 2018-07-04 04:31:27

Local clock offset: -0.068 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.71 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.07%

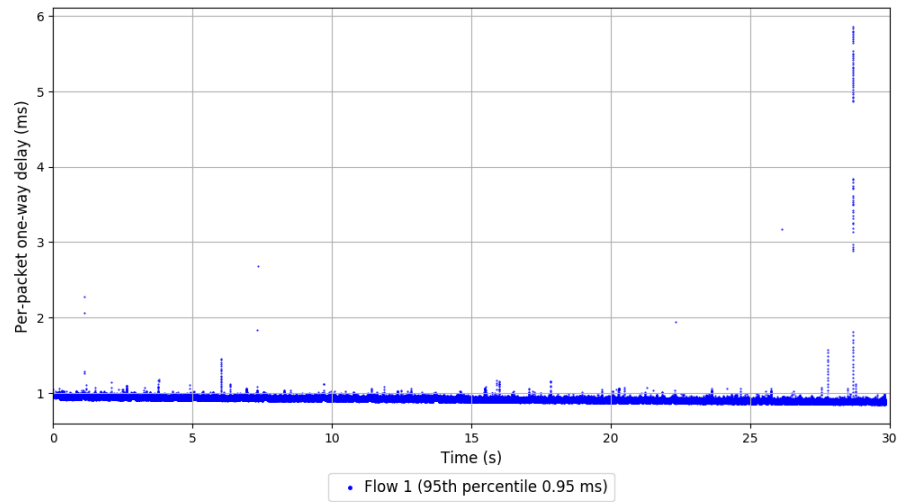
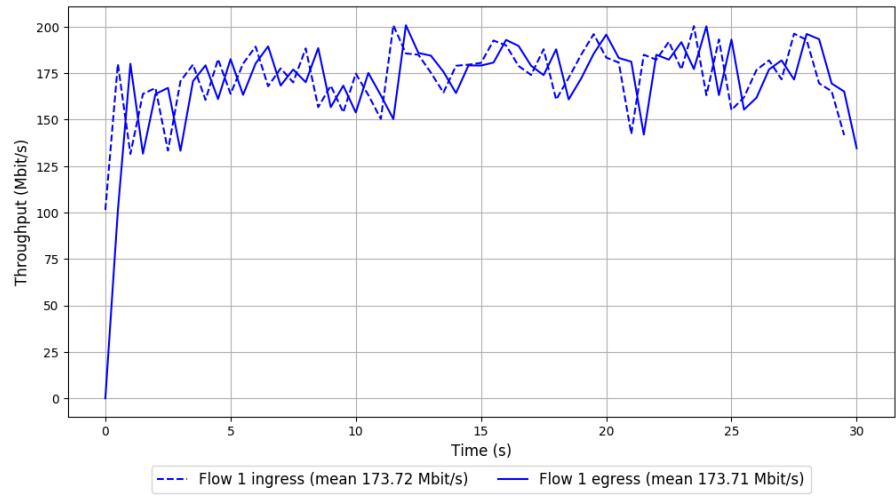
-- Flow 1:

Average throughput: 173.71 Mbit/s

95th percentile per-packet one-way delay: 0.947 ms

Loss rate: 0.07%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-04 04:56:53

End at: 2018-07-04 04:57:23

Local clock offset: 4.361 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.98 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.08%

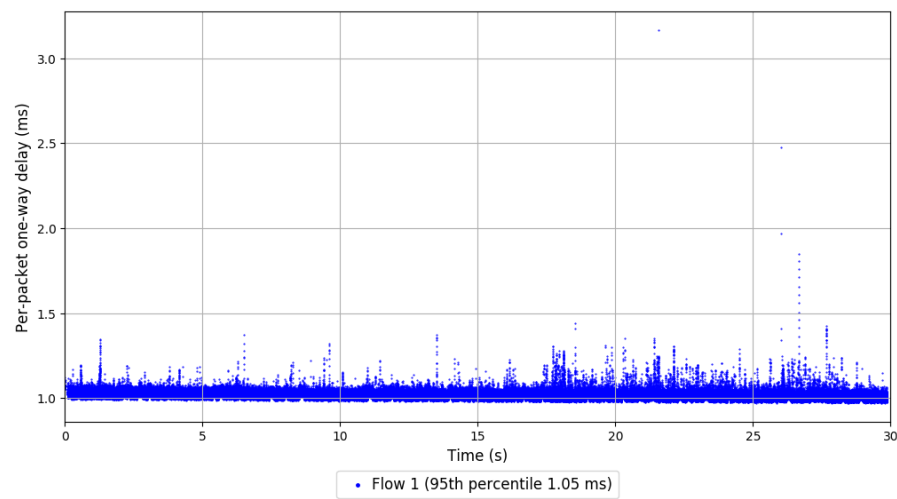
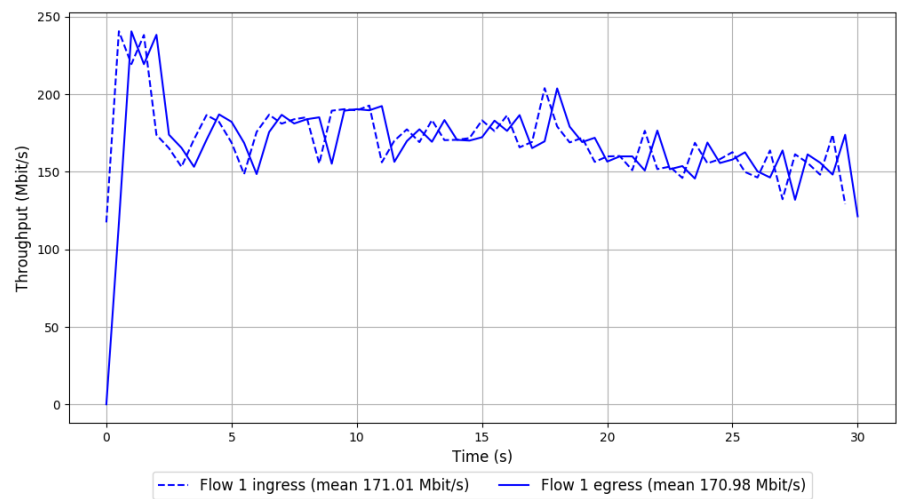
-- Flow 1:

Average throughput: 170.98 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.08%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-04 05:22:47

End at: 2018-07-04 05:23:18

Local clock offset: 0.936 ms

Remote clock offset: -0.99 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.11 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.06%

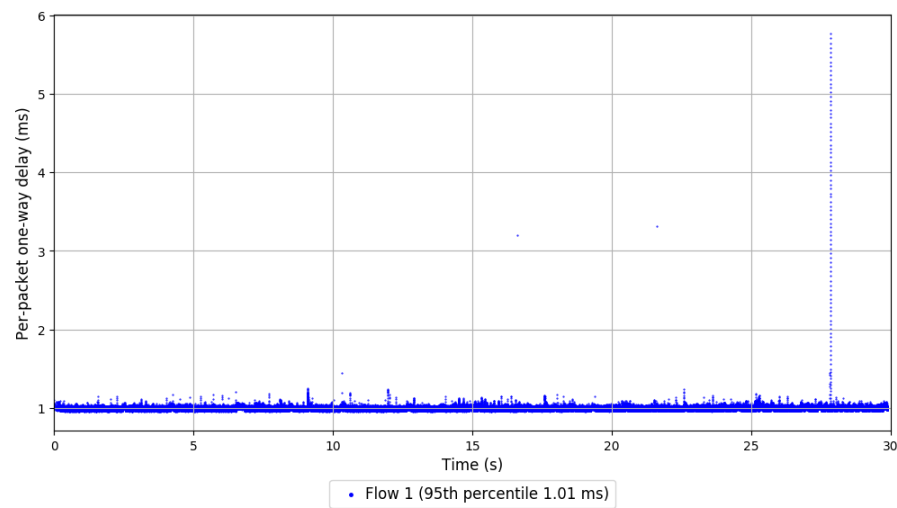
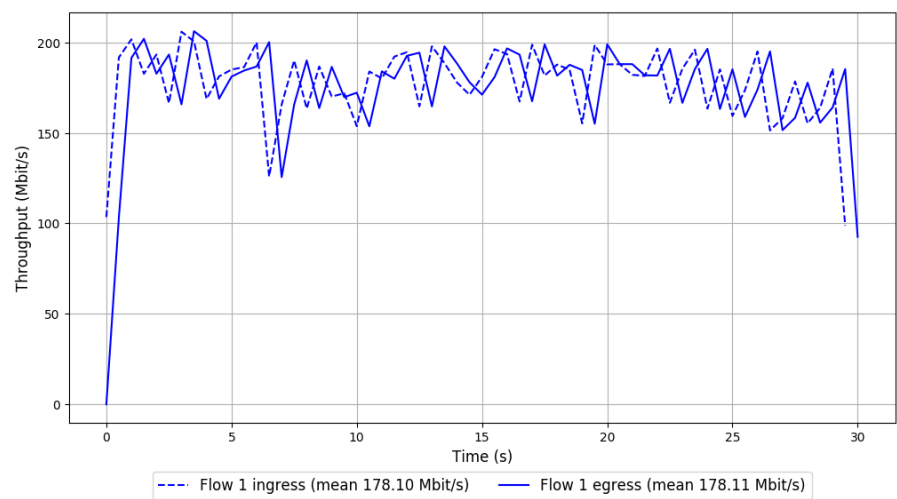
-- Flow 1:

Average throughput: 178.11 Mbit/s

95th percentile per-packet one-way delay: 1.015 ms

Loss rate: 0.06%

Run 6: Report of Indigo — Data Link

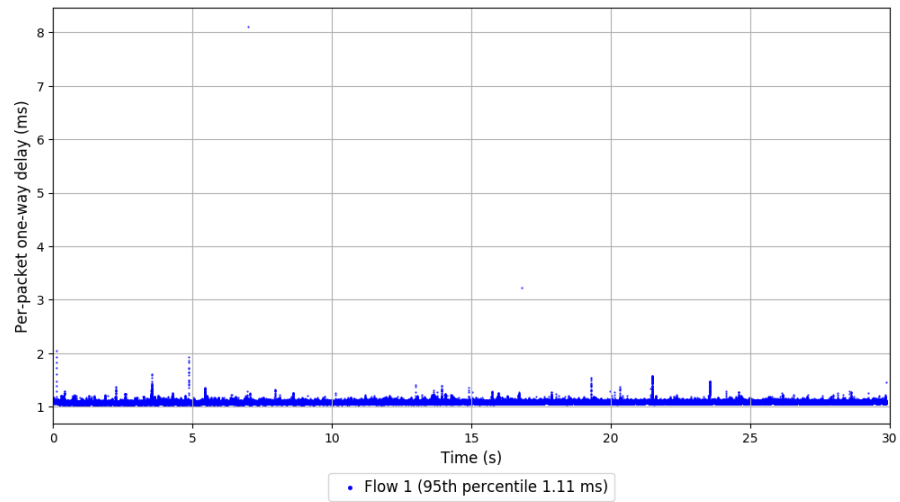
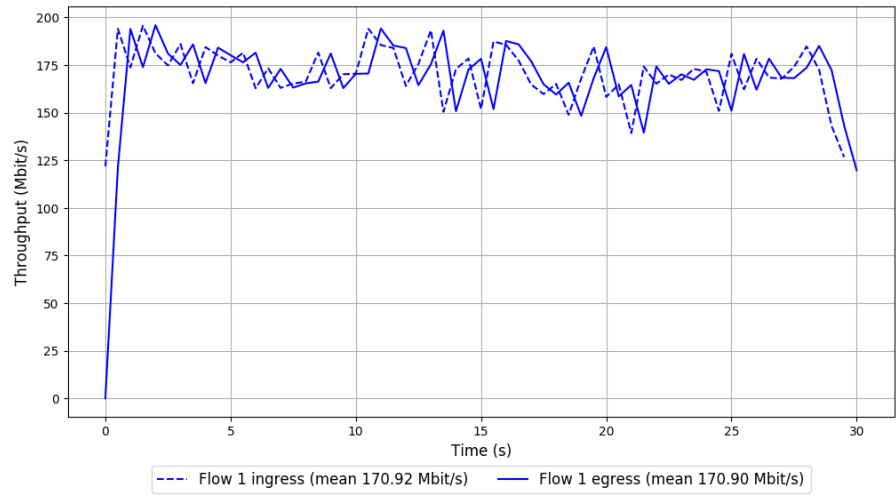


Run 7: Statistics of Indigo

Start at: 2018-07-04 05:48:39
End at: 2018-07-04 05:49:09
Local clock offset: -0.218 ms
Remote clock offset: -0.315 ms

Below is generated by plot.py at 2018-07-04 08:30:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 170.90 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 170.90 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.07%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-04 06:14:34

End at: 2018-07-04 06:15:04

Local clock offset: 0.043 ms

Remote clock offset: 4.054 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.08%

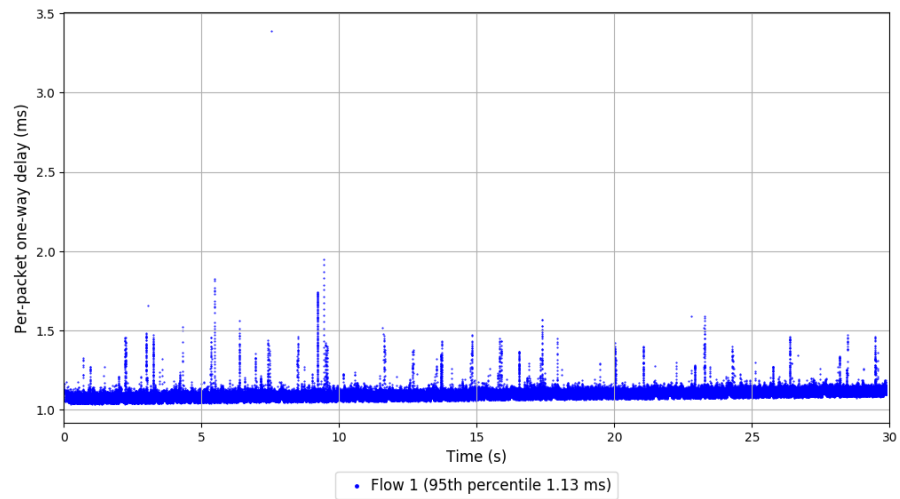
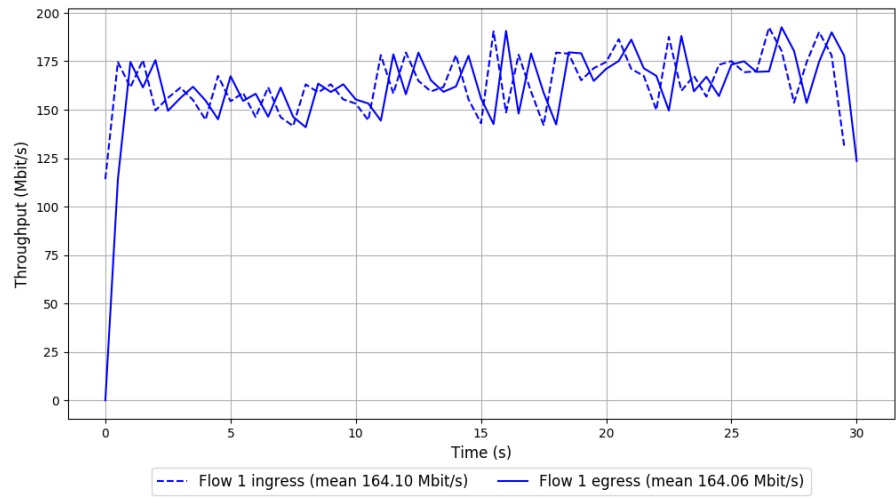
-- Flow 1:

Average throughput: 164.06 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.08%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-04 06:40:33

End at: 2018-07-04 06:41:03

Local clock offset: -1.644 ms

Remote clock offset: 1.313 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.81 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.04%

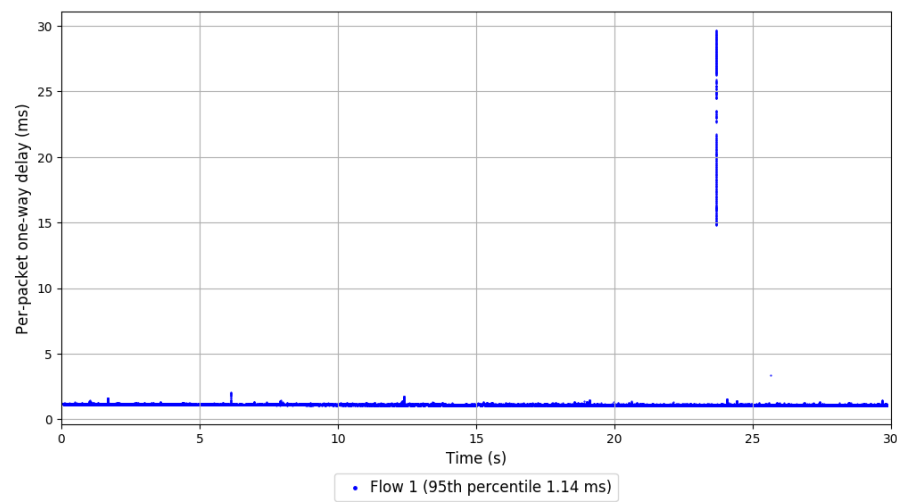
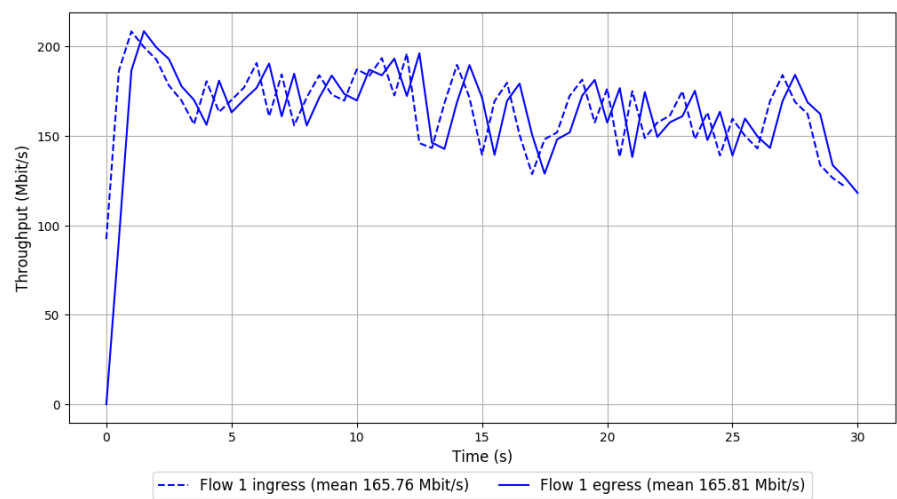
-- Flow 1:

Average throughput: 165.81 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.04%

Run 9: Report of Indigo — Data Link

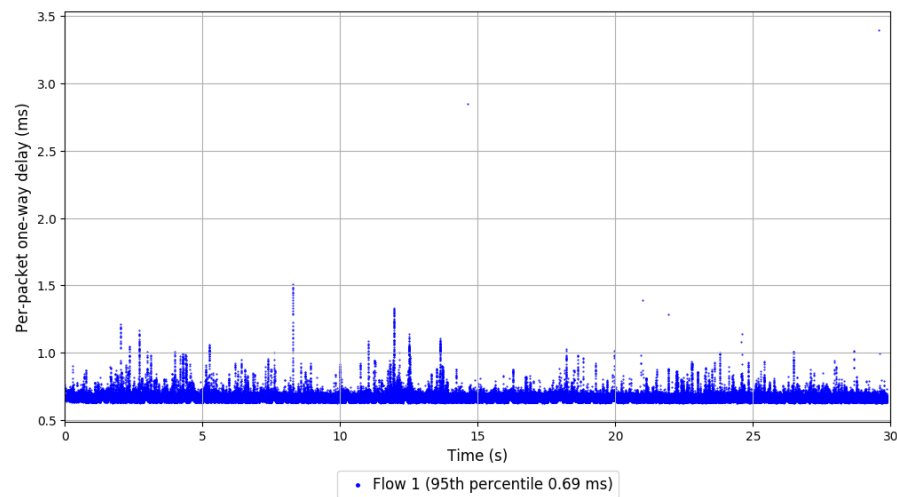
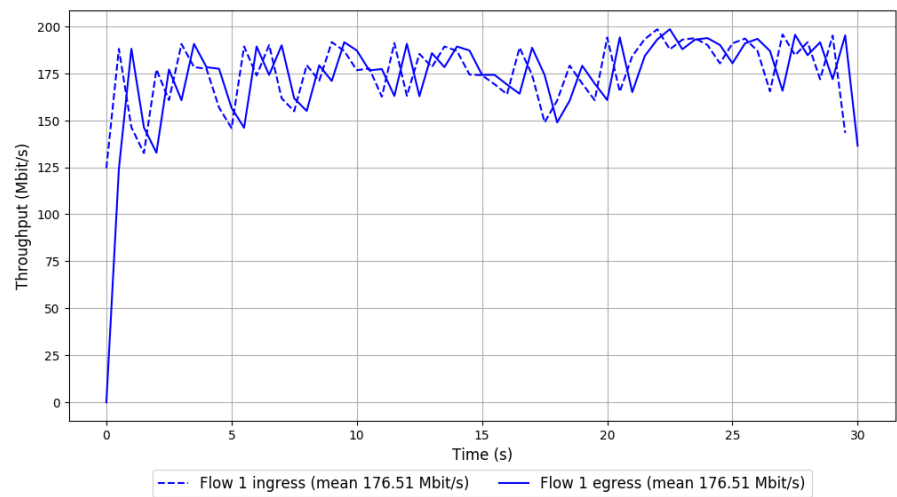


Run 10: Statistics of Indigo

Start at: 2018-07-04 07:06:31
End at: 2018-07-04 07:07:01
Local clock offset: -1.497 ms
Remote clock offset: -1.886 ms

Below is generated by plot.py at 2018-07-04 08:30:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.51 Mbit/s
95th percentile per-packet one-way delay: 0.689 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 176.51 Mbit/s
95th percentile per-packet one-way delay: 0.689 ms
Loss rate: 0.07%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-04 03:06:47

End at: 2018-07-04 03:07:17

Local clock offset: -2.564 ms

Remote clock offset: 5.156 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.21 Mbit/s

95th percentile per-packet one-way delay: 0.780 ms

Loss rate: 0.08%

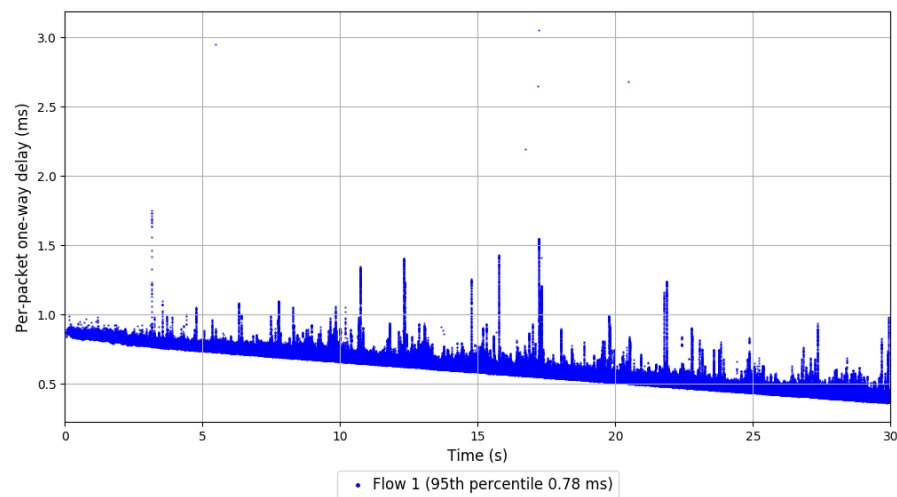
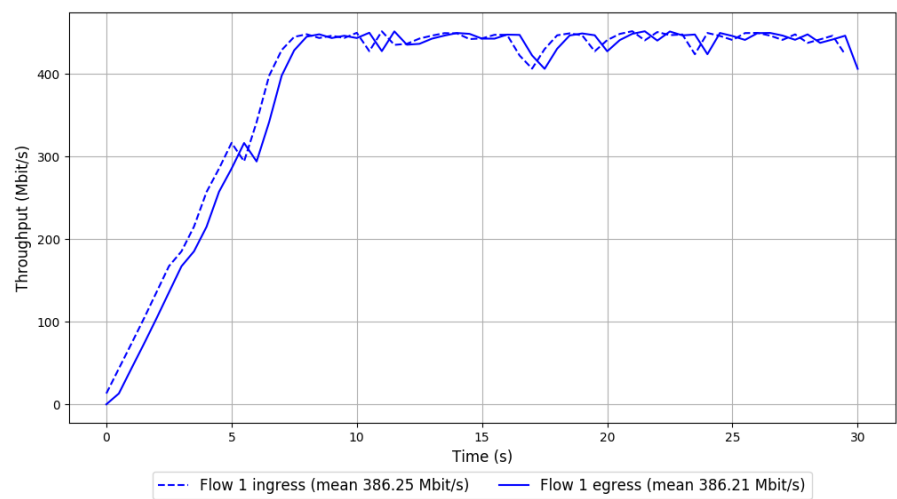
-- Flow 1:

Average throughput: 386.21 Mbit/s

95th percentile per-packet one-way delay: 0.780 ms

Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-04 03:32:37

End at: 2018-07-04 03:33:08

Local clock offset: 0.47 ms

Remote clock offset: 0.598 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 412.37 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.07%

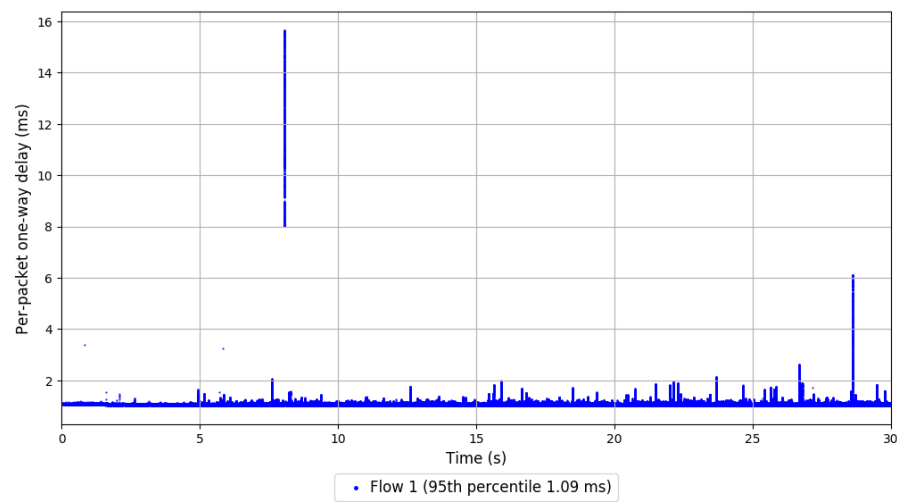
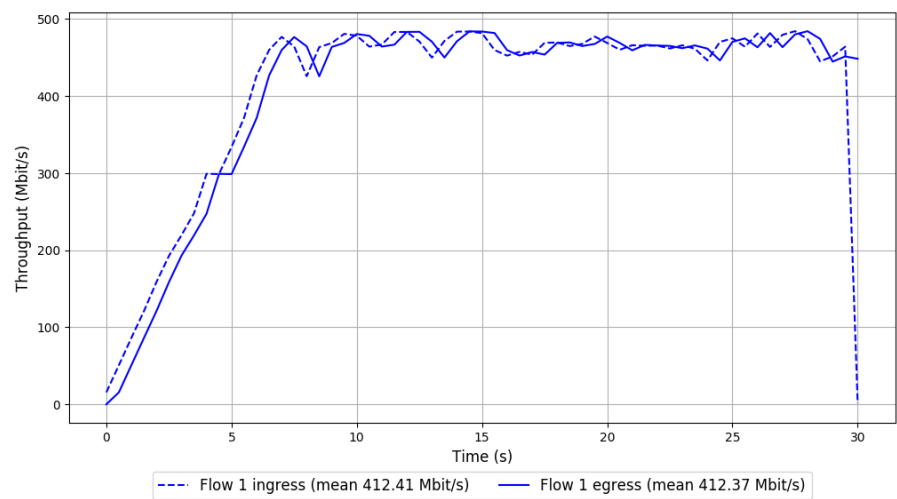
-- Flow 1:

Average throughput: 412.37 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.07%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-04 03:58:35

End at: 2018-07-04 03:59:05

Local clock offset: 0.593 ms

Remote clock offset: 3.55 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.82 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.07%

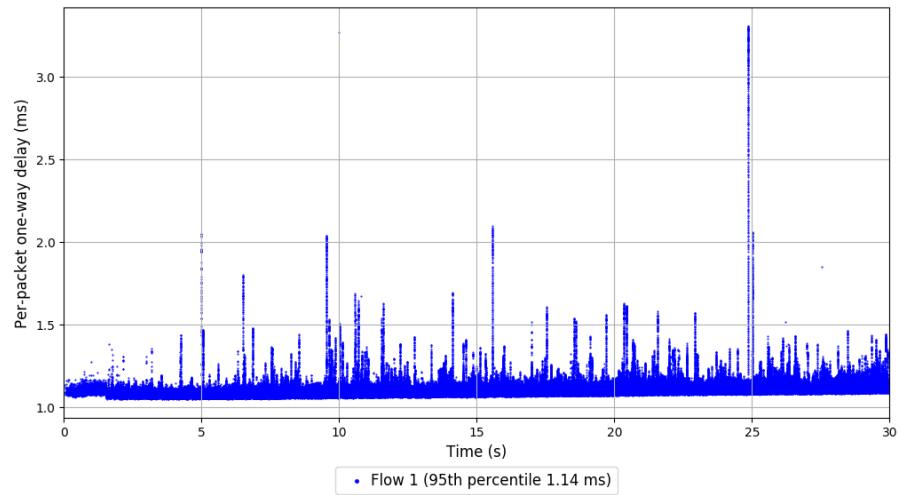
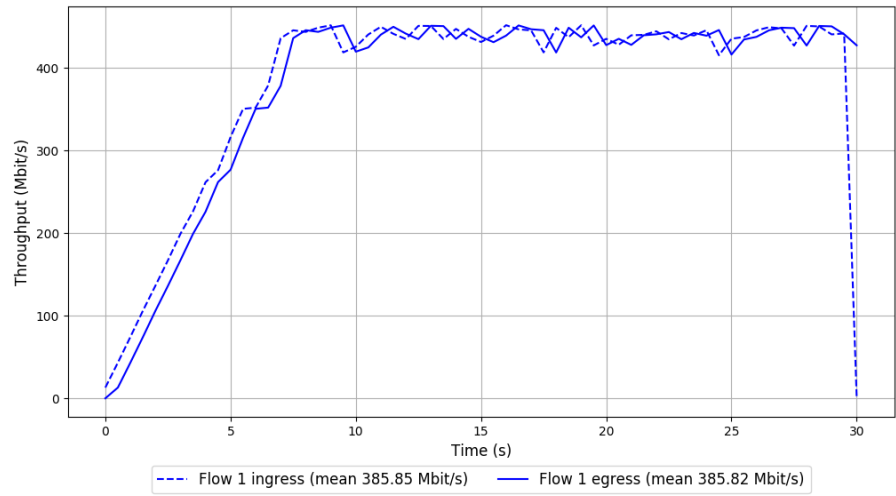
-- Flow 1:

Average throughput: 385.82 Mbit/s

95th percentile per-packet one-way delay: 1.135 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-04 04:24:35

End at: 2018-07-04 04:25:05

Local clock offset: -0.012 ms

Remote clock offset: 1.22 ms

Below is generated by plot.py at 2018-07-04 08:30:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.68 Mbit/s

95th percentile per-packet one-way delay: 0.856 ms

Loss rate: 0.08%

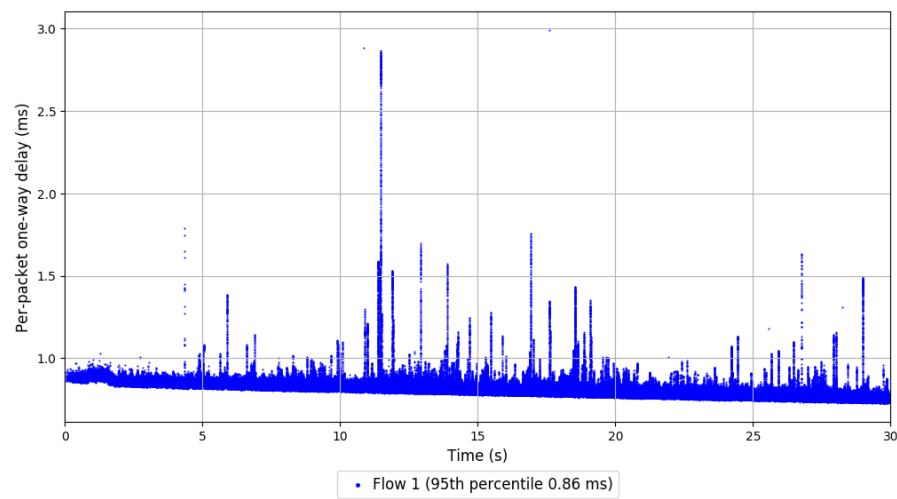
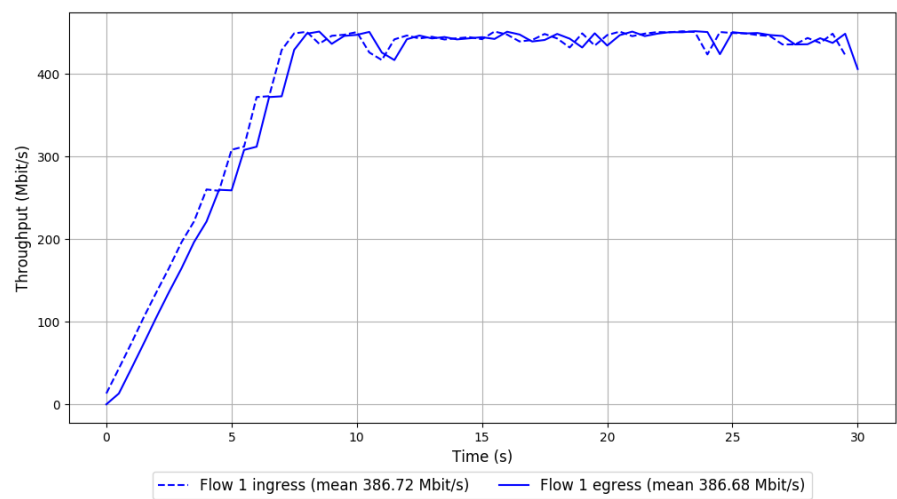
-- Flow 1:

Average throughput: 386.68 Mbit/s

95th percentile per-packet one-way delay: 0.856 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link

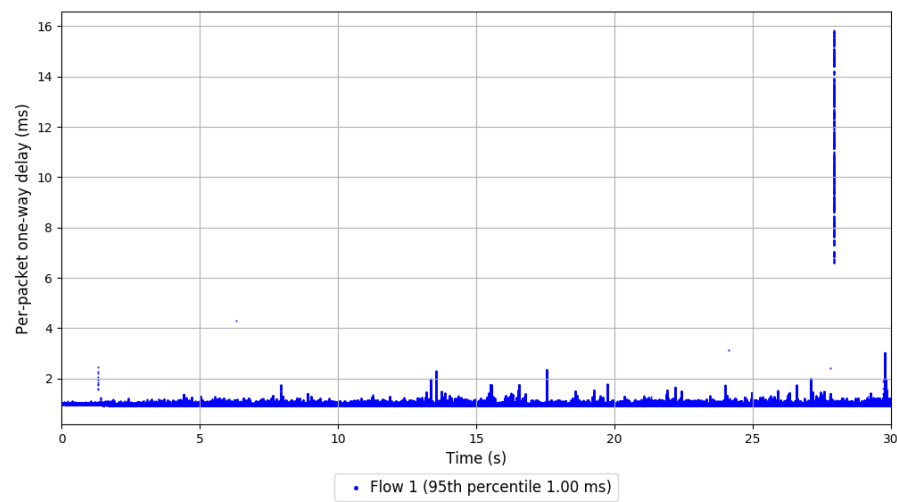
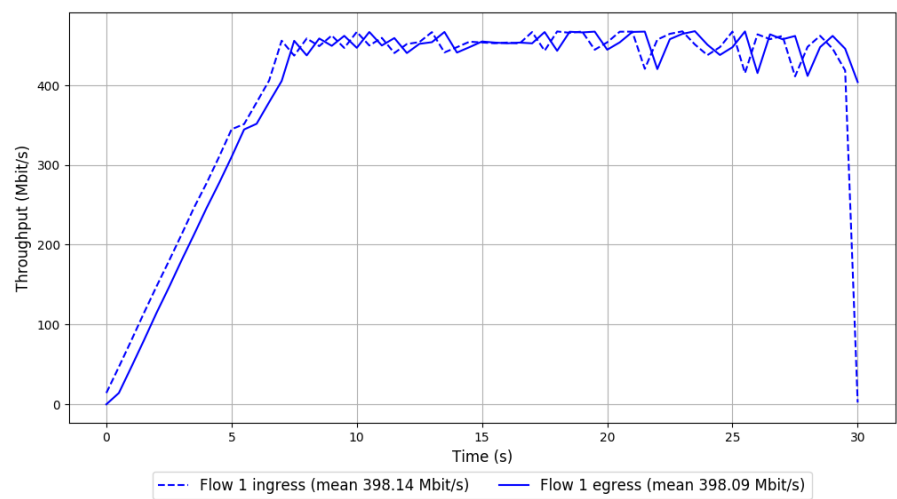


Run 5: Statistics of LEDBAT

Start at: 2018-07-04 04:50:32
End at: 2018-07-04 04:51:02
Local clock offset: 3.756 ms
Remote clock offset: -1.321 ms

Below is generated by plot.py at 2018-07-04 08:33:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 398.09 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 398.09 Mbit/s
95th percentile per-packet one-way delay: 1.002 ms
Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-04 05:16:27

End at: 2018-07-04 05:16:57

Local clock offset: 1.401 ms

Remote clock offset: -0.86 ms

Below is generated by plot.py at 2018-07-04 08:33:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.17 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.07%

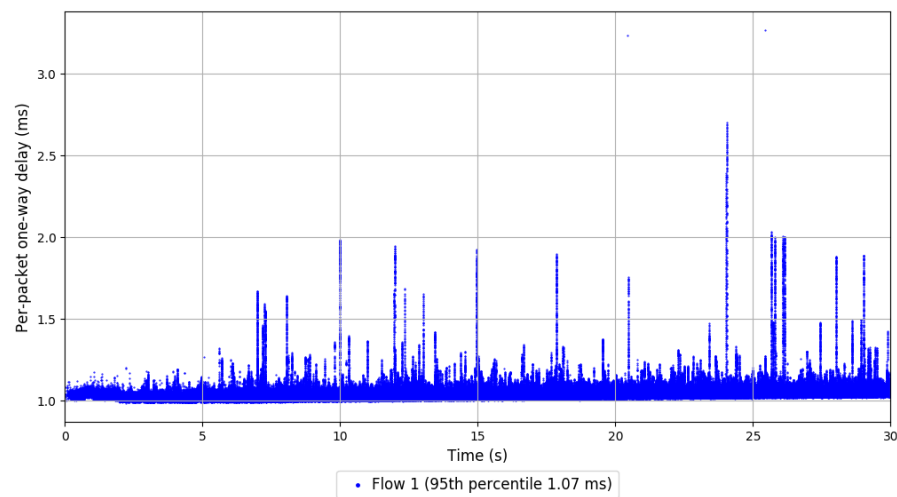
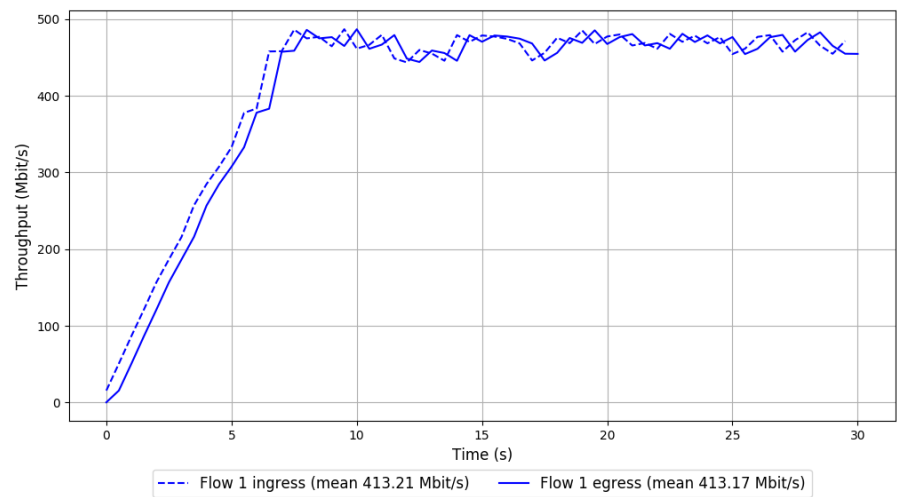
-- Flow 1:

Average throughput: 413.17 Mbit/s

95th percentile per-packet one-way delay: 1.070 ms

Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link

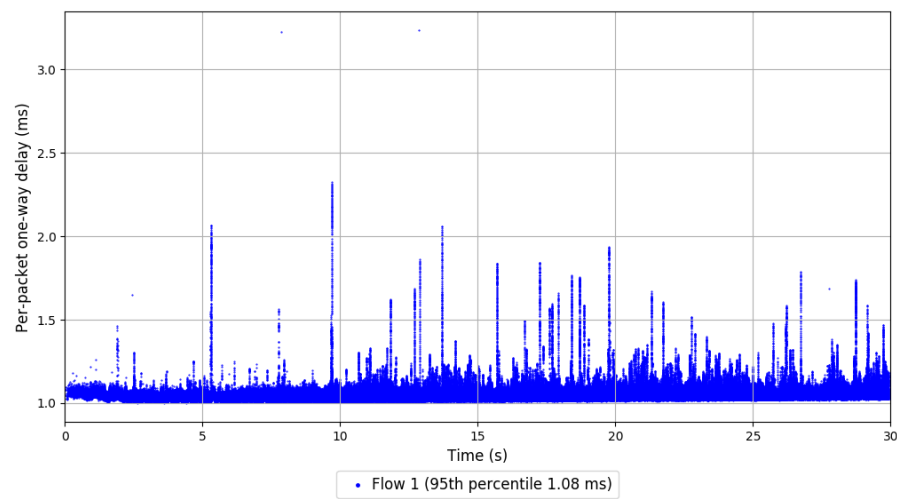
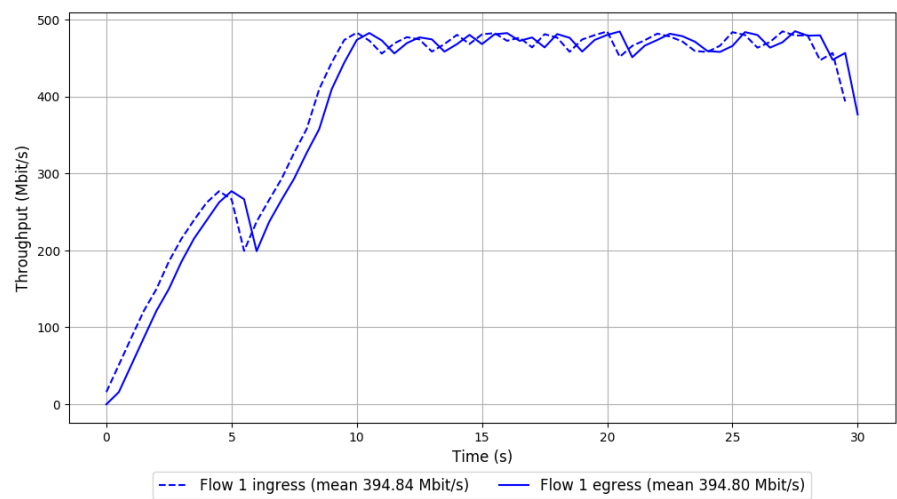


Run 7: Statistics of LEDBAT

Start at: 2018-07-04 05:42:26
End at: 2018-07-04 05:42:56
Local clock offset: 0.018 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-07-04 08:34:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 394.80 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 394.80 Mbit/s
95th percentile per-packet one-way delay: 1.078 ms
Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-04 06:08:11

End at: 2018-07-04 06:08:41

Local clock offset: -0.253 ms

Remote clock offset: 3.083 ms

Below is generated by plot.py at 2018-07-04 08:34:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.66 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.08%

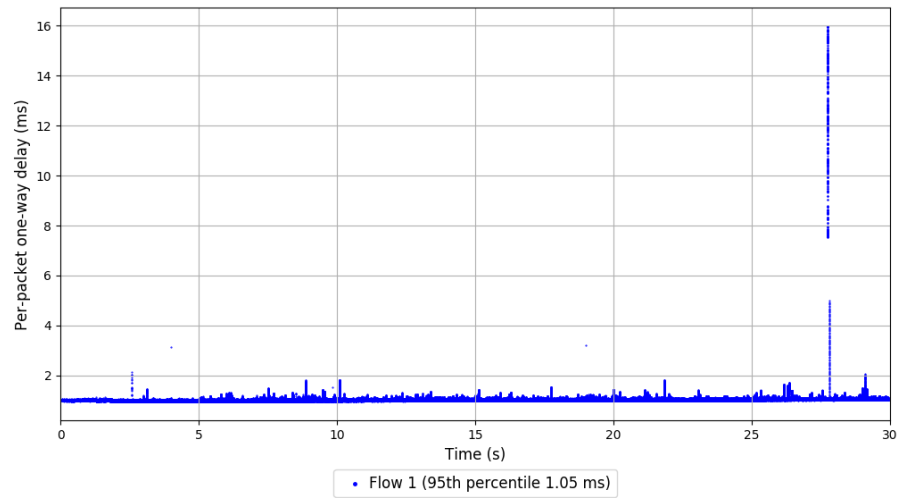
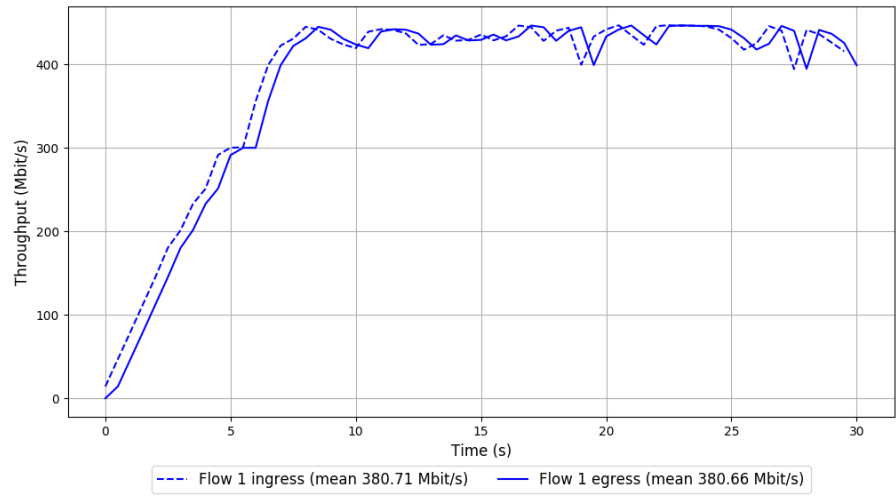
-- Flow 1:

Average throughput: 380.66 Mbit/s

95th percentile per-packet one-way delay: 1.050 ms

Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-04 06:34:11

End at: 2018-07-04 06:34:41

Local clock offset: -0.111 ms

Remote clock offset: 4.032 ms

Below is generated by plot.py at 2018-07-04 08:34:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.98 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.07%

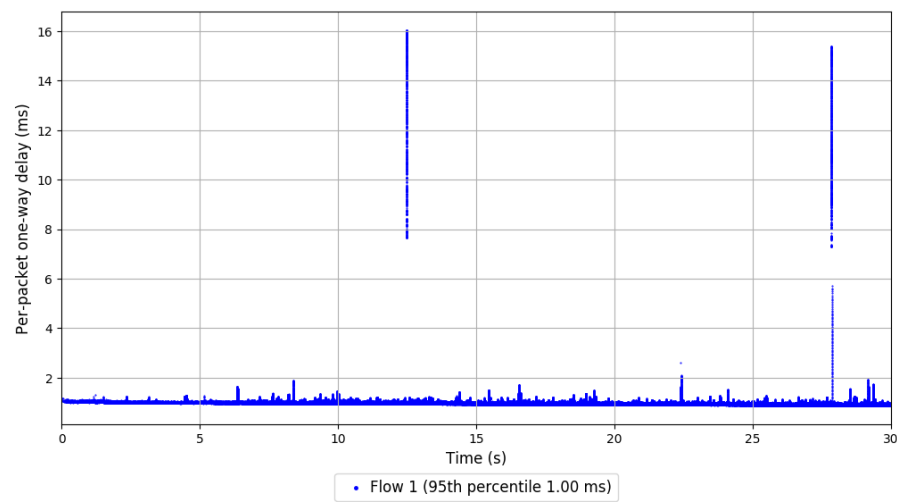
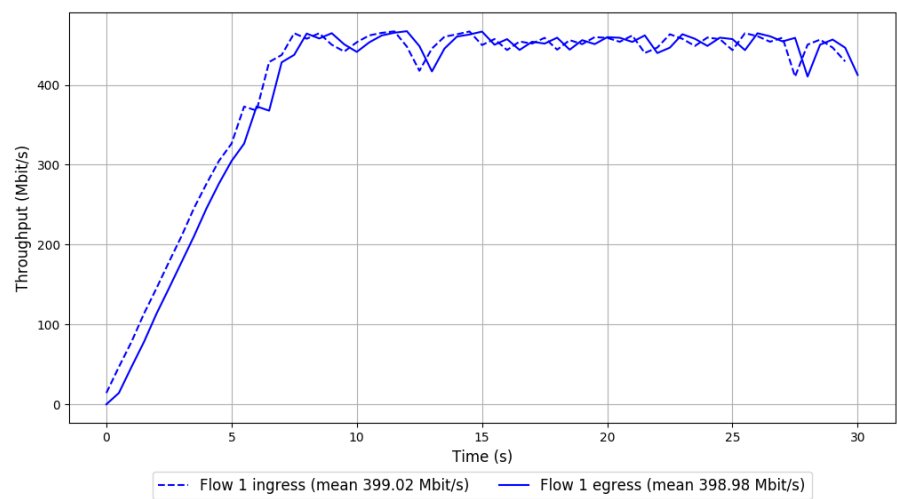
-- Flow 1:

Average throughput: 398.98 Mbit/s

95th percentile per-packet one-way delay: 1.004 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link

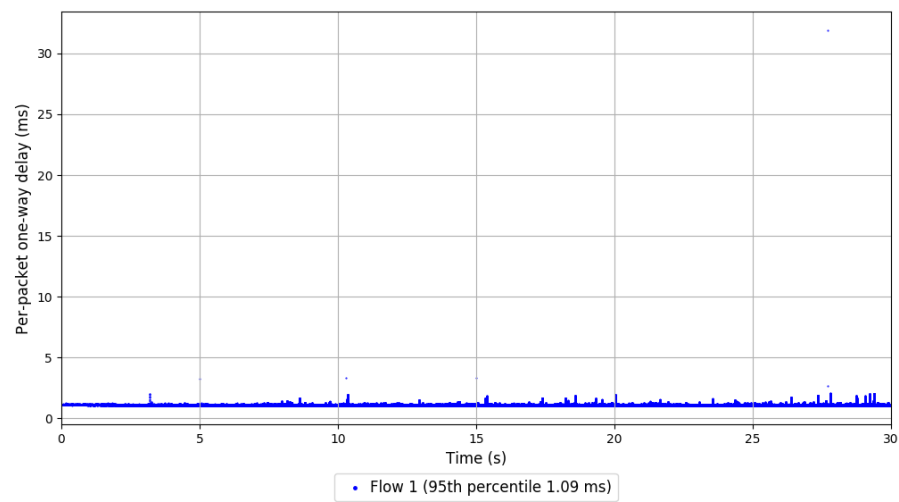
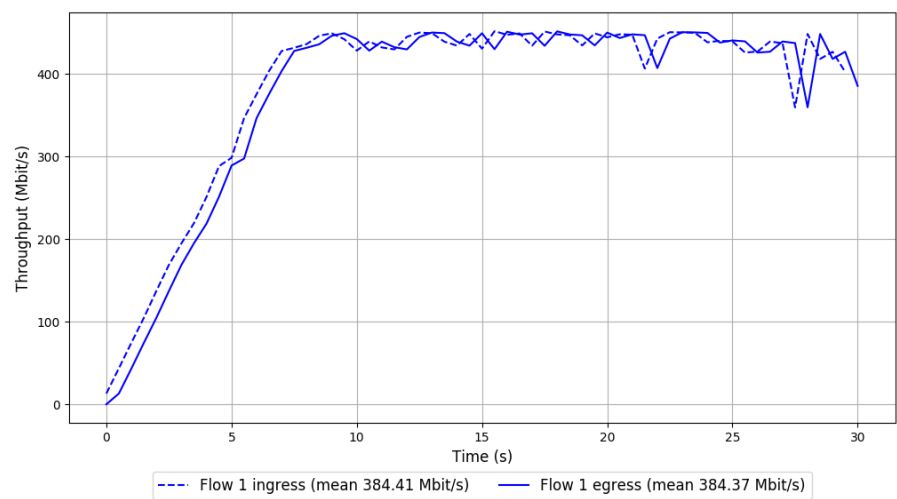


Run 10: Statistics of LEDBAT

Start at: 2018-07-04 07:00:11
End at: 2018-07-04 07:00:41
Local clock offset: -3.567 ms
Remote clock offset: -1.829 ms

Below is generated by plot.py at 2018-07-04 08:34:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 384.37 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 384.37 Mbit/s
95th percentile per-packet one-way delay: 1.094 ms
Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-04 02:57:53

End at: 2018-07-04 02:58:23

Local clock offset: -3.781 ms

Remote clock offset: 4.418 ms

Below is generated by plot.py at 2018-07-04 08:41:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.04 Mbit/s

95th percentile per-packet one-way delay: 2.024 ms

Loss rate: 0.06%

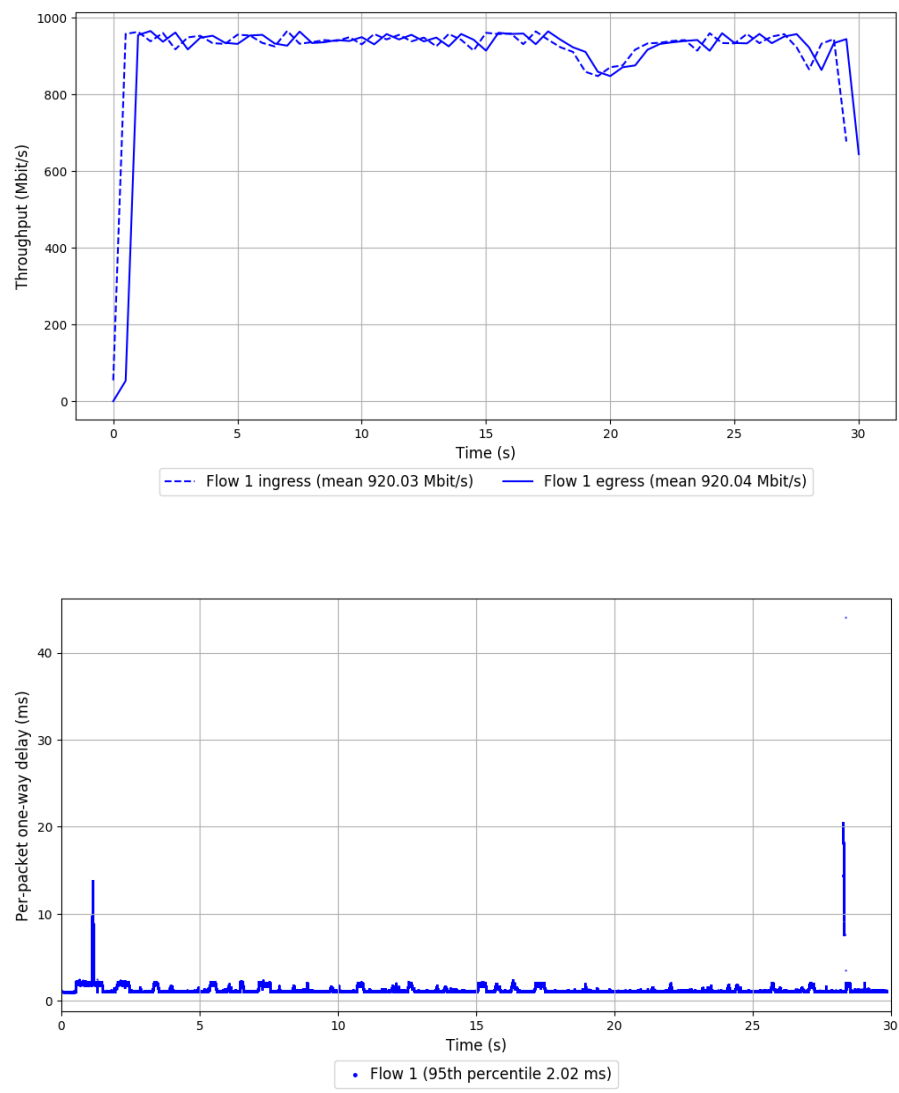
-- Flow 1:

Average throughput: 920.04 Mbit/s

95th percentile per-packet one-way delay: 2.024 ms

Loss rate: 0.06%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-04 03:23:44

End at: 2018-07-04 03:24:14

Local clock offset: 0.119 ms

Remote clock offset: 1.039 ms

Below is generated by plot.py at 2018-07-04 08:41:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.69 Mbit/s

95th percentile per-packet one-way delay: 1.878 ms

Loss rate: 0.07%

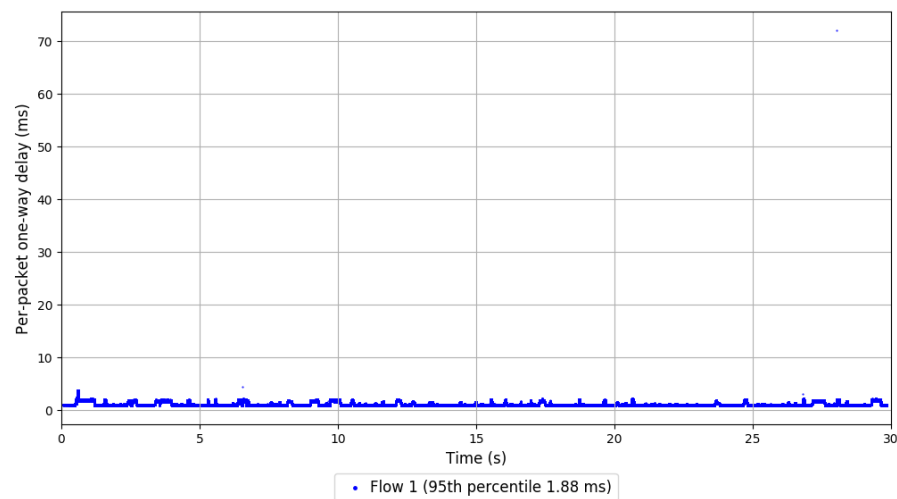
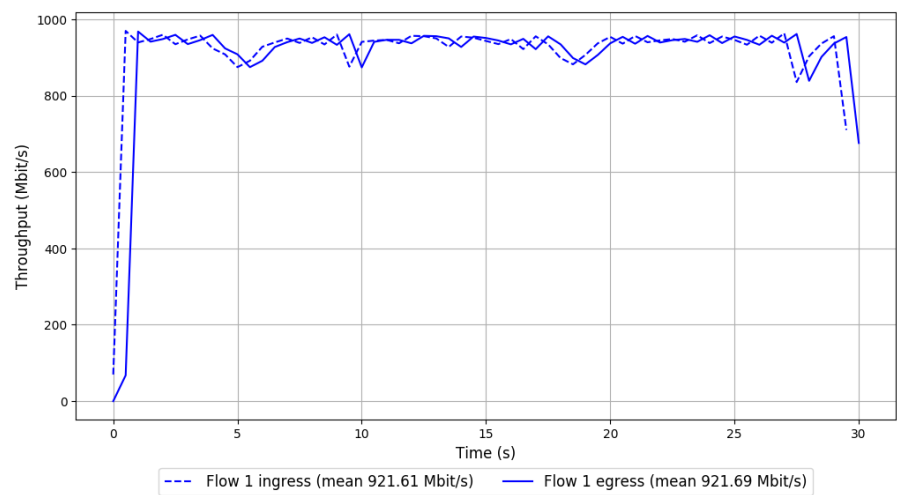
-- Flow 1:

Average throughput: 921.69 Mbit/s

95th percentile per-packet one-way delay: 1.878 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-04 03:49:41

End at: 2018-07-04 03:50:11

Local clock offset: 0.471 ms

Remote clock offset: 2.625 ms

Below is generated by plot.py at 2018-07-04 08:43:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.70 Mbit/s

95th percentile per-packet one-way delay: 1.947 ms

Loss rate: 0.07%

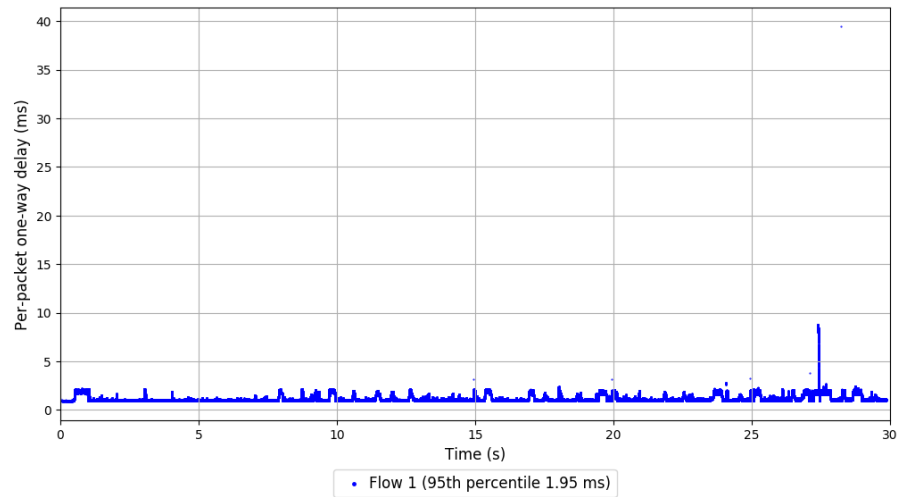
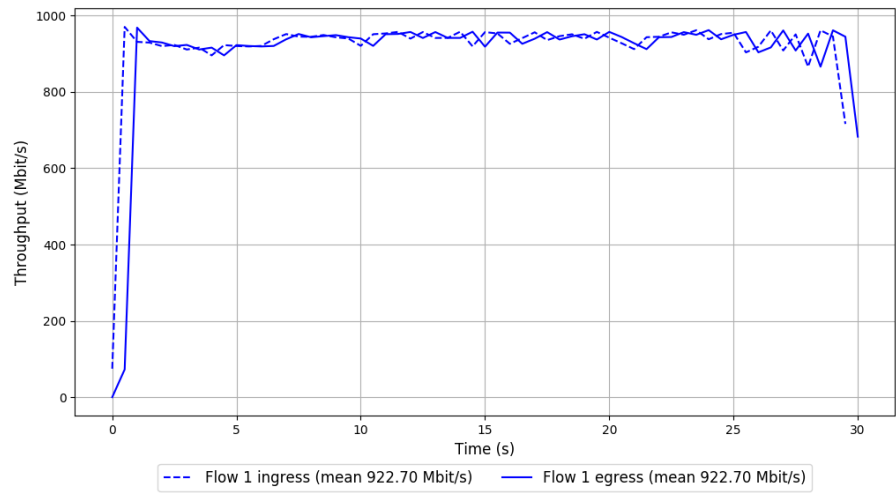
-- Flow 1:

Average throughput: 922.70 Mbit/s

95th percentile per-packet one-way delay: 1.947 ms

Loss rate: 0.07%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-04 04:15:40

End at: 2018-07-04 04:16:10

Local clock offset: 0.117 ms

Remote clock offset: 4.601 ms

Below is generated by plot.py at 2018-07-04 08:44:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.45 Mbit/s

95th percentile per-packet one-way delay: 1.630 ms

Loss rate: 0.07%

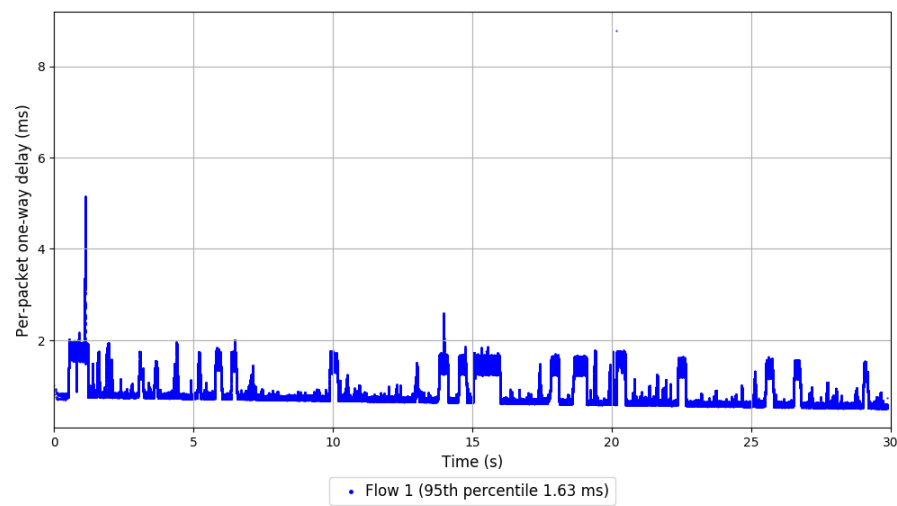
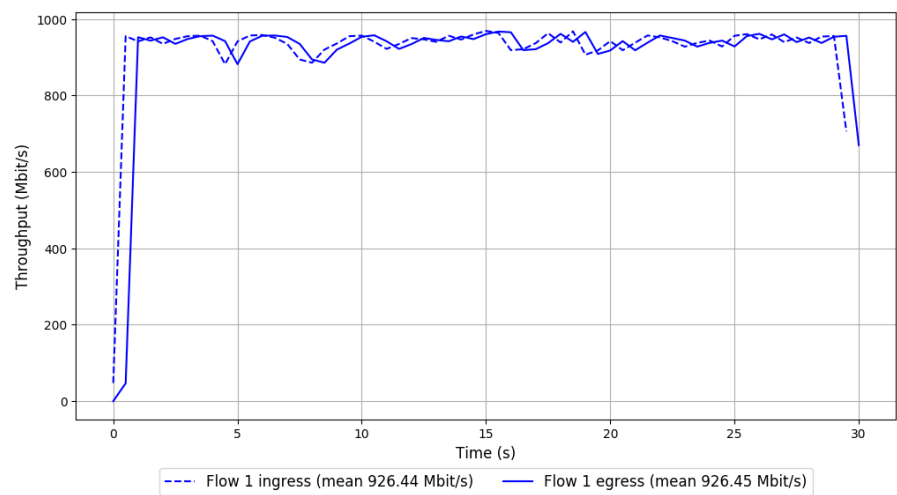
-- Flow 1:

Average throughput: 926.45 Mbit/s

95th percentile per-packet one-way delay: 1.630 ms

Loss rate: 0.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-04 04:41:36

End at: 2018-07-04 04:42:06

Local clock offset: 2.445 ms

Remote clock offset: -0.857 ms

Below is generated by plot.py at 2018-07-04 08:44:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 926.30 Mbit/s

95th percentile per-packet one-way delay: 1.718 ms

Loss rate: 0.06%

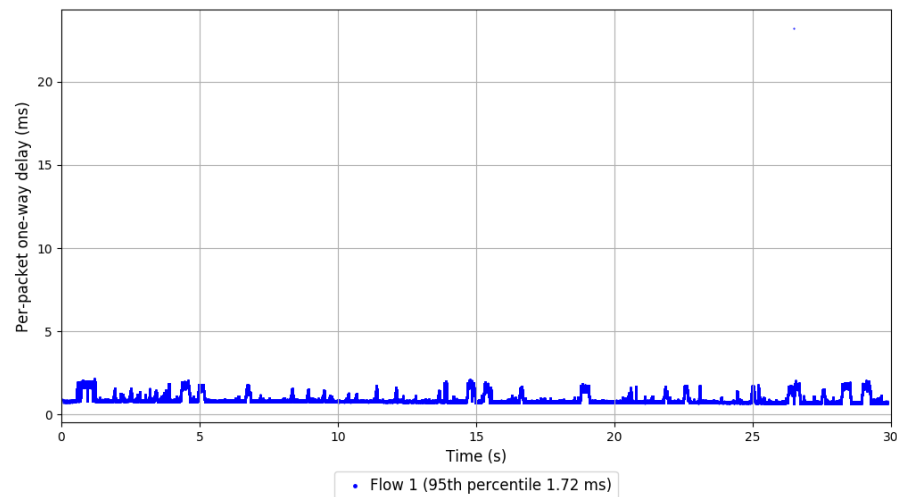
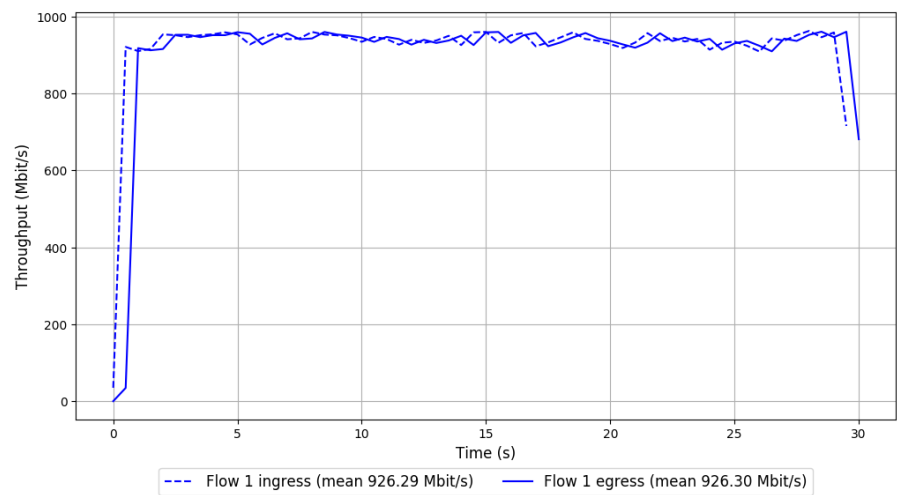
-- Flow 1:

Average throughput: 926.30 Mbit/s

95th percentile per-packet one-way delay: 1.718 ms

Loss rate: 0.06%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-04 05:07:30

End at: 2018-07-04 05:08:00

Local clock offset: 3.177 ms

Remote clock offset: -0.75 ms

Below is generated by plot.py at 2018-07-04 08:44:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.59 Mbit/s

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

Loss rate: 0.07%

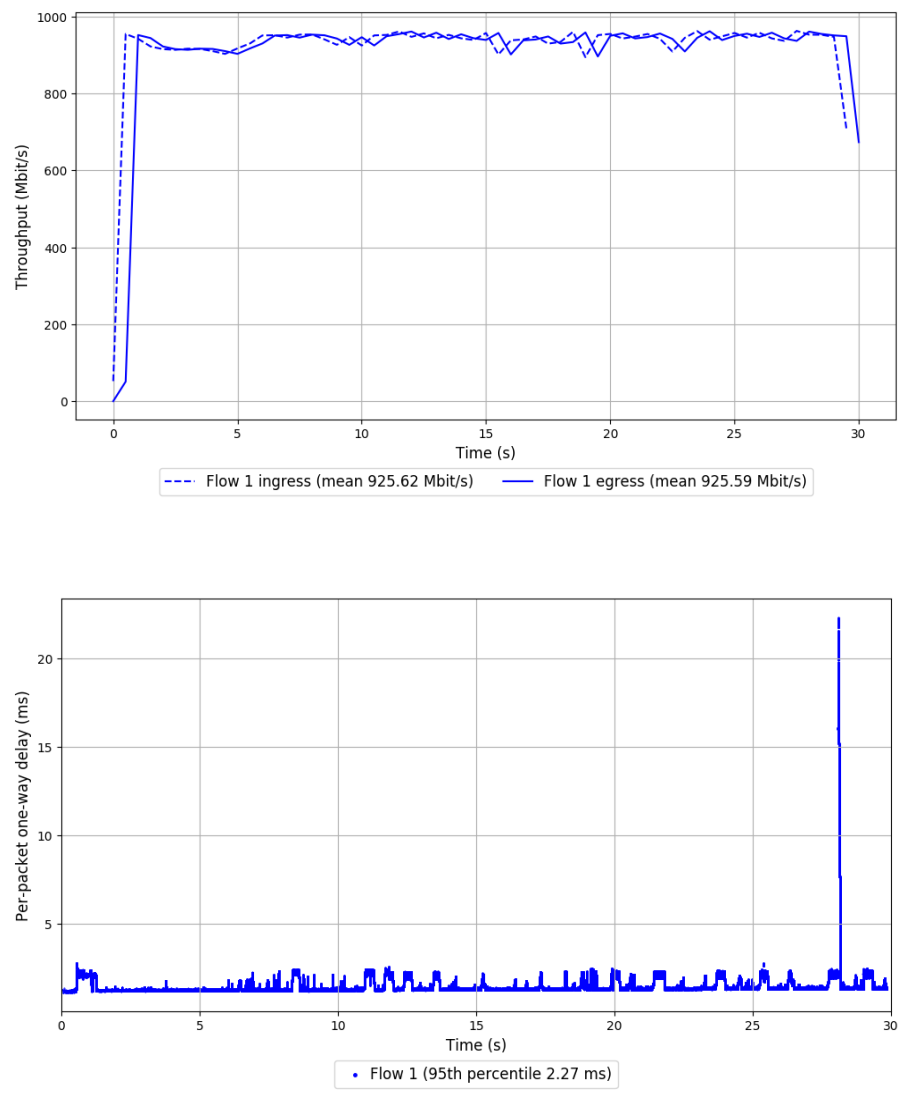
-- Flow 1:

Average throughput: 925.59 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-04 05:33:32

End at: 2018-07-04 05:34:02

Local clock offset: 0.526 ms

Remote clock offset: -0.471 ms

Below is generated by plot.py at 2018-07-04 08:44:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 911.79 Mbit/s

95th percentile per-packet one-way delay: 2.030 ms

Loss rate: 0.07%

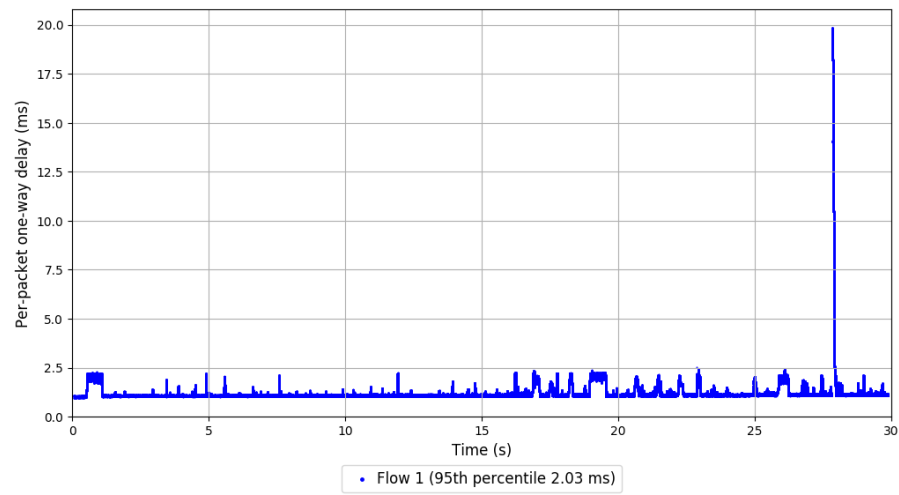
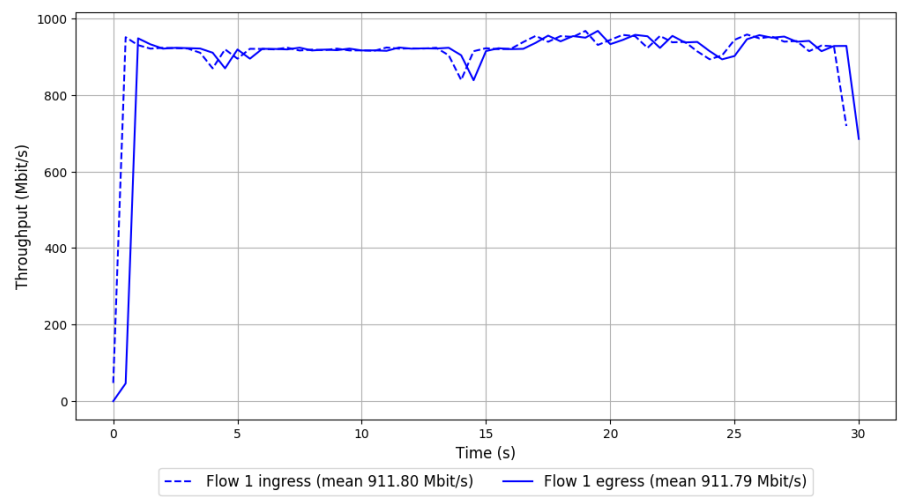
-- Flow 1:

Average throughput: 911.79 Mbit/s

95th percentile per-packet one-way delay: 2.030 ms

Loss rate: 0.07%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-04 05:59:15

End at: 2018-07-04 05:59:45

Local clock offset: -0.434 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-07-04 08:45:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.21 Mbit/s

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

Loss rate: 0.07%

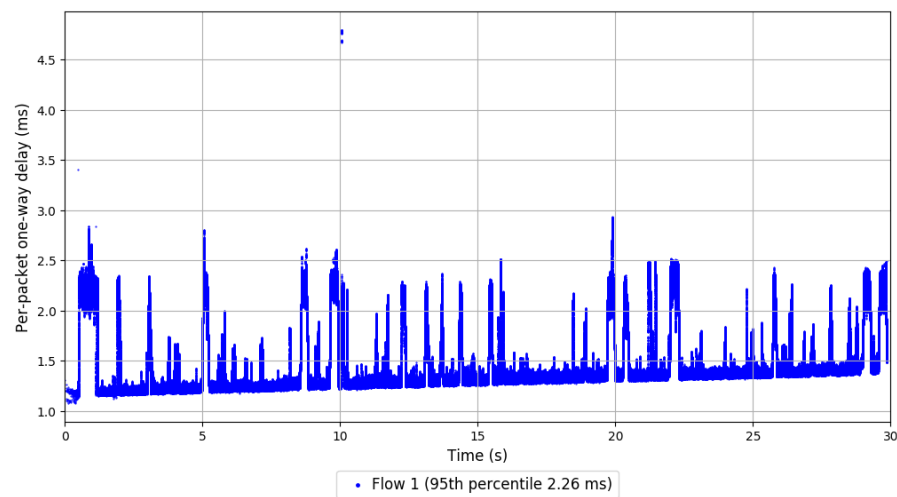
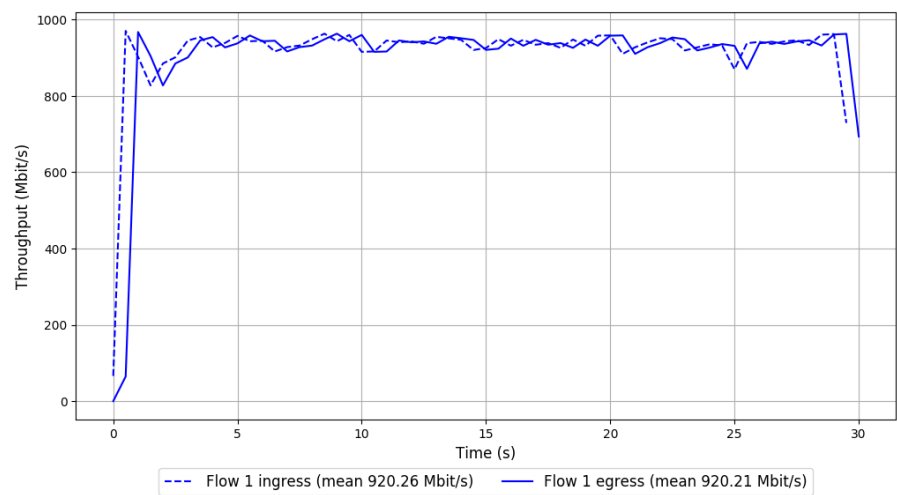
-- Flow 1:

Average throughput: 920.21 Mbit/s

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

Loss rate: 0.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-04 06:25:16

End at: 2018-07-04 06:25:46

Local clock offset: 0.123 ms

Remote clock offset: 4.995 ms

Below is generated by plot.py at 2018-07-04 08:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.00 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.07%

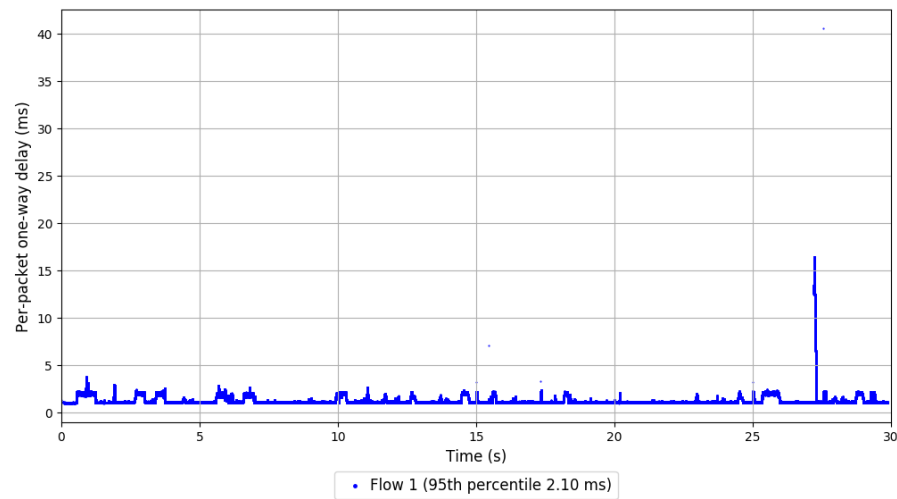
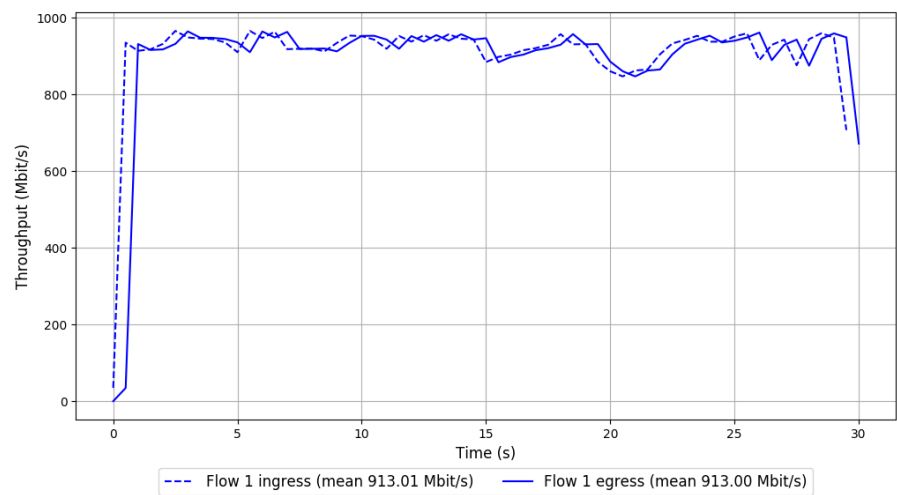
-- Flow 1:

Average throughput: 913.00 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.07%

Run 9: Report of PCC-Allegro — Data Link

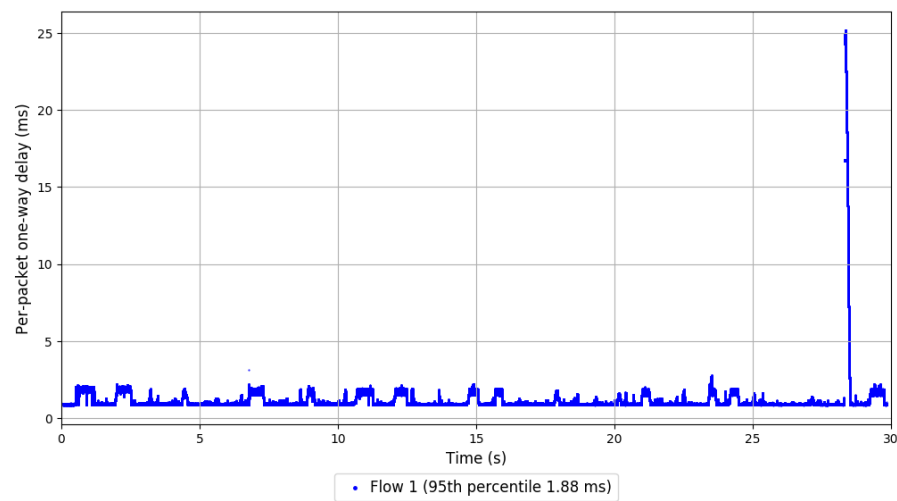
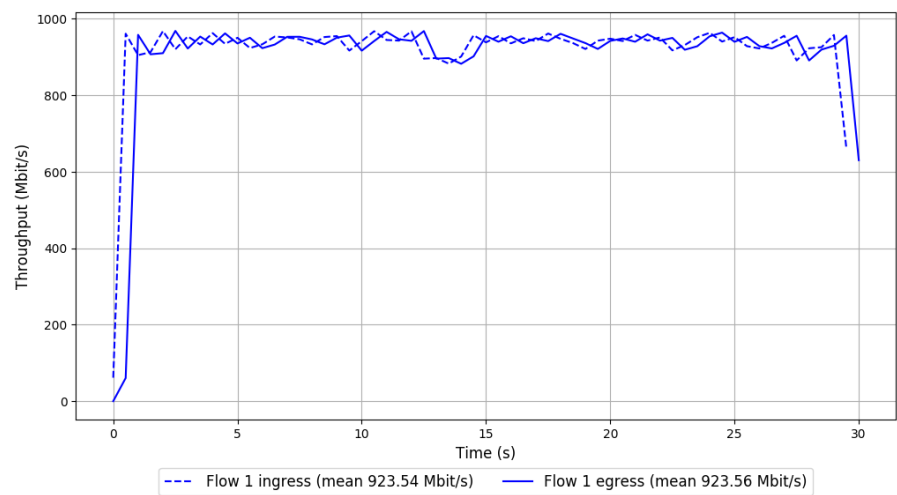


Run 10: Statistics of PCC-Allegro

Start at: 2018-07-04 06:51:16
End at: 2018-07-04 06:51:46
Local clock offset: -3.04 ms
Remote clock offset: -0.722 ms

Below is generated by plot.py at 2018-07-04 08:52:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 923.56 Mbit/s
95th percentile per-packet one-way delay: 1.876 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 923.56 Mbit/s
95th percentile per-packet one-way delay: 1.876 ms
Loss rate: 0.06%

Run 10: Report of PCC-Allegro — Data Link

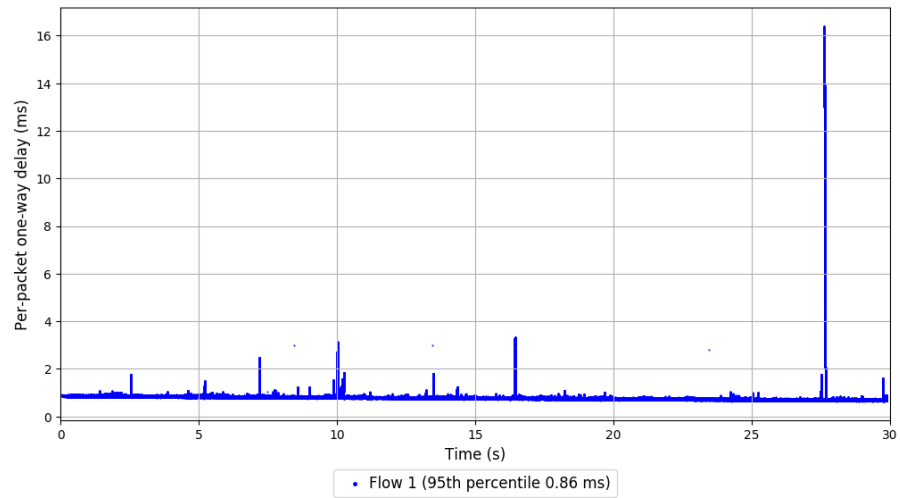
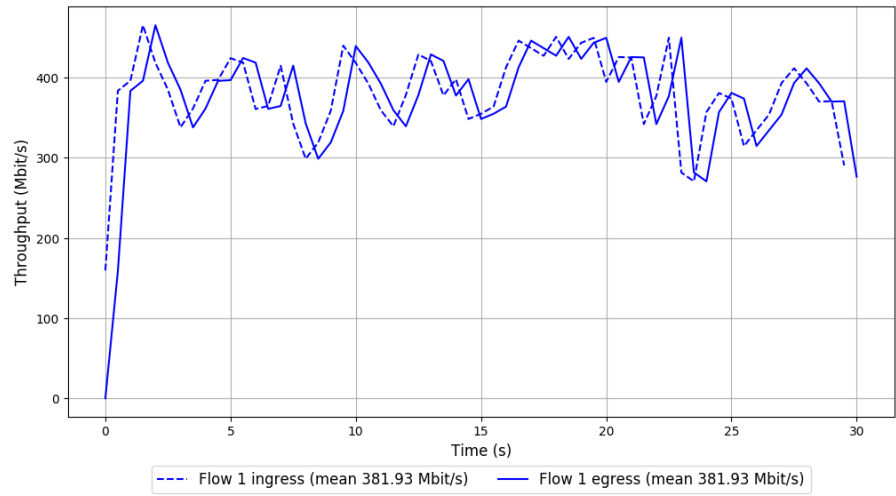


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-04 03:14:30
End at: 2018-07-04 03:15:00
Local clock offset: -0.83 ms
Remote clock offset: 2.172 ms

# Below is generated by plot.py at 2018-07-04 08:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 381.93 Mbit/s
95th percentile per-packet one-way delay: 0.864 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 381.93 Mbit/s
95th percentile per-packet one-way delay: 0.864 ms
Loss rate: 0.06%
```

Run 1: Report of PCC-Expr — Data Link

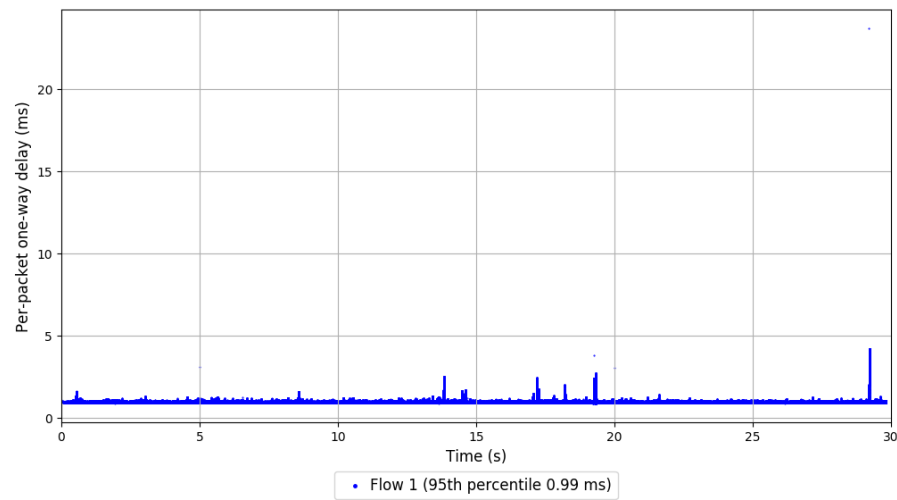
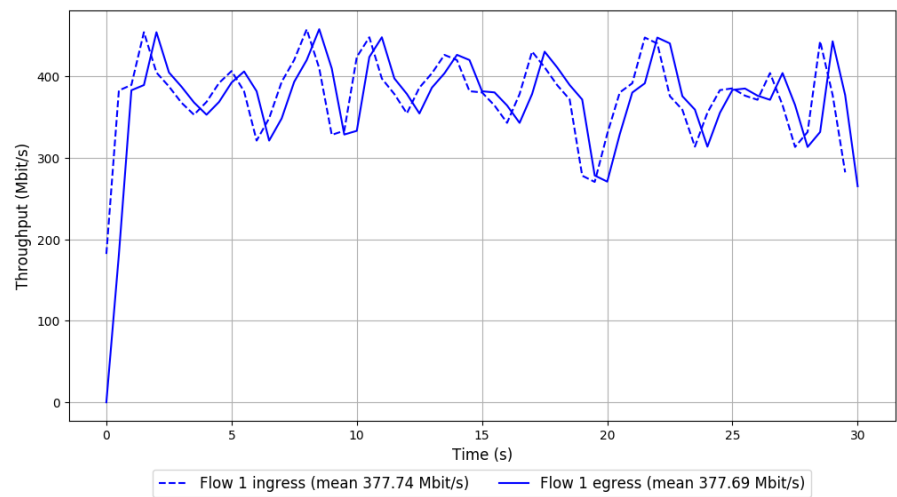


```
Run 2: Statistics of PCC-Expr

Start at: 2018-07-04 03:40:21
End at: 2018-07-04 03:40:51
Local clock offset: 0.409 ms
Remote clock offset: 0.692 ms

# Below is generated by plot.py at 2018-07-04 08:52:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 377.69 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 377.69 Mbit/s
95th percentile per-packet one-way delay: 0.991 ms
Loss rate: 0.08%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-04 04:06:20

End at: 2018-07-04 04:06:50

Local clock offset: 0.4 ms

Remote clock offset: 4.183 ms

Below is generated by plot.py at 2018-07-04 08:52:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.02 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.07%

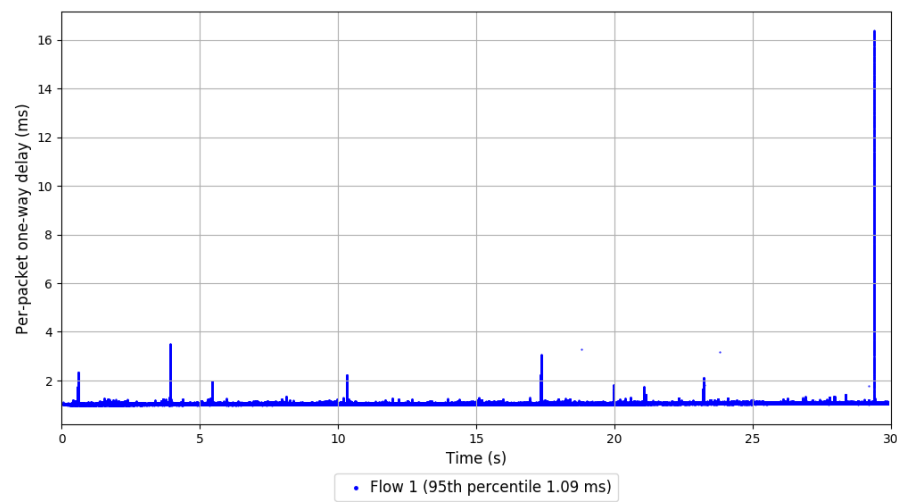
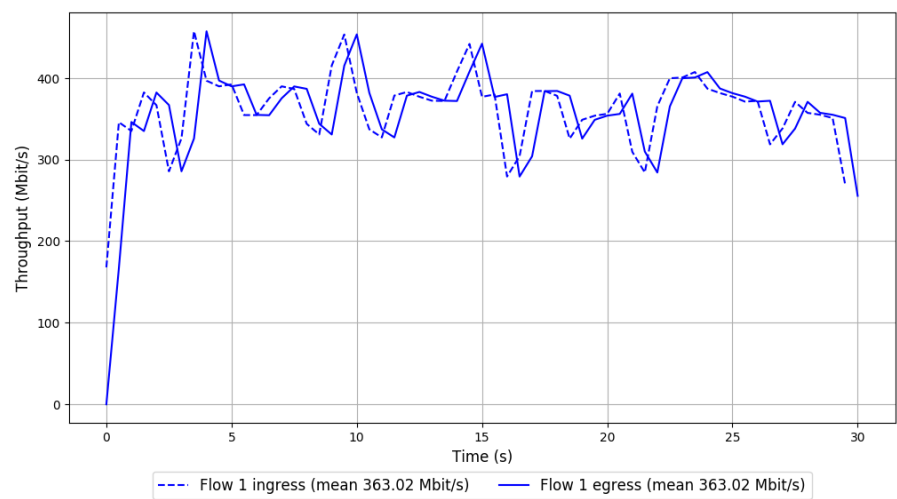
-- Flow 1:

Average throughput: 363.02 Mbit/s

95th percentile per-packet one-way delay: 1.090 ms

Loss rate: 0.07%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-04 04:32:22

End at: 2018-07-04 04:32:52

Local clock offset: 0.017 ms

Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-07-04 08:52:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.65 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.05%

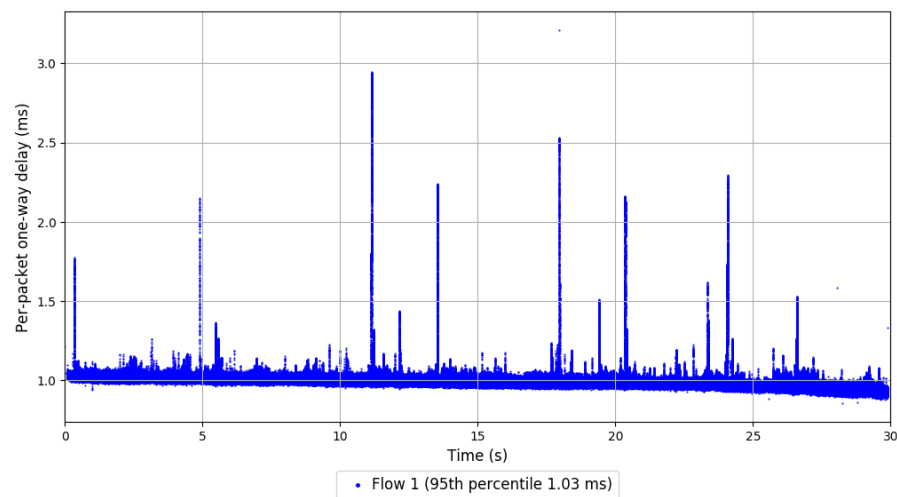
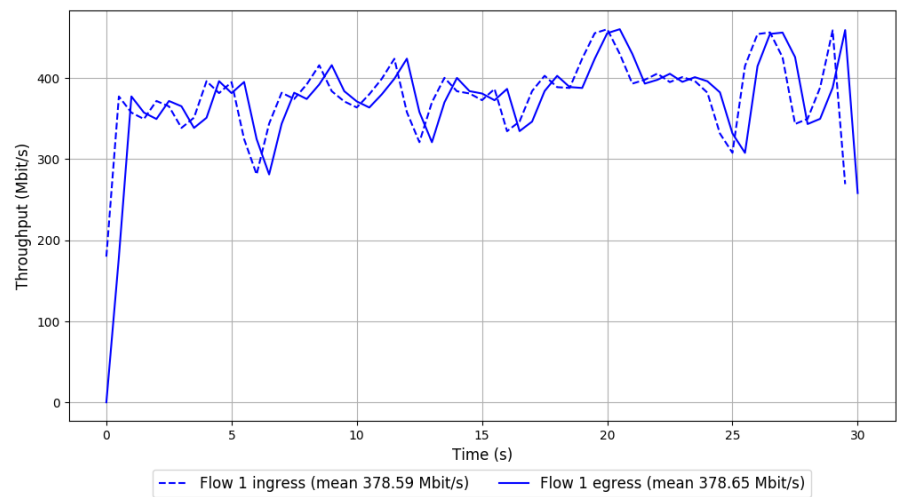
-- Flow 1:

Average throughput: 378.65 Mbit/s

95th percentile per-packet one-way delay: 1.035 ms

Loss rate: 0.05%

Run 4: Report of PCC-Expr — Data Link

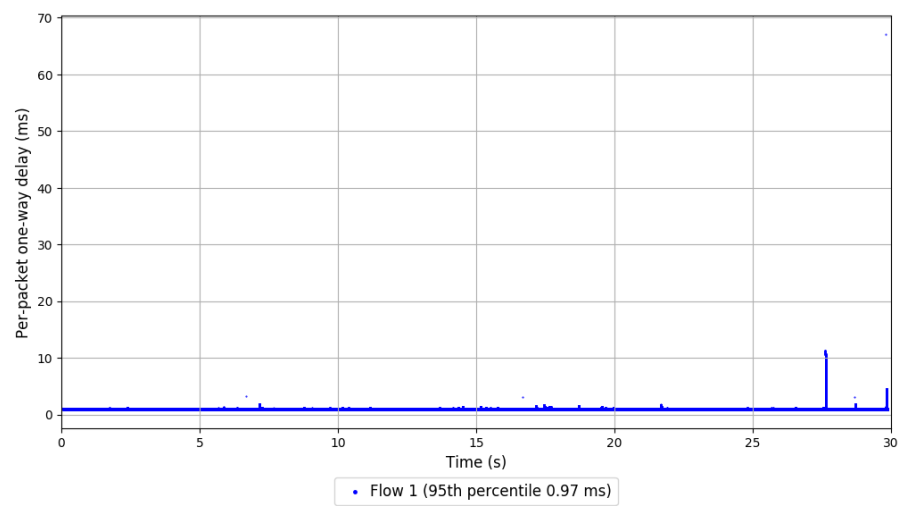
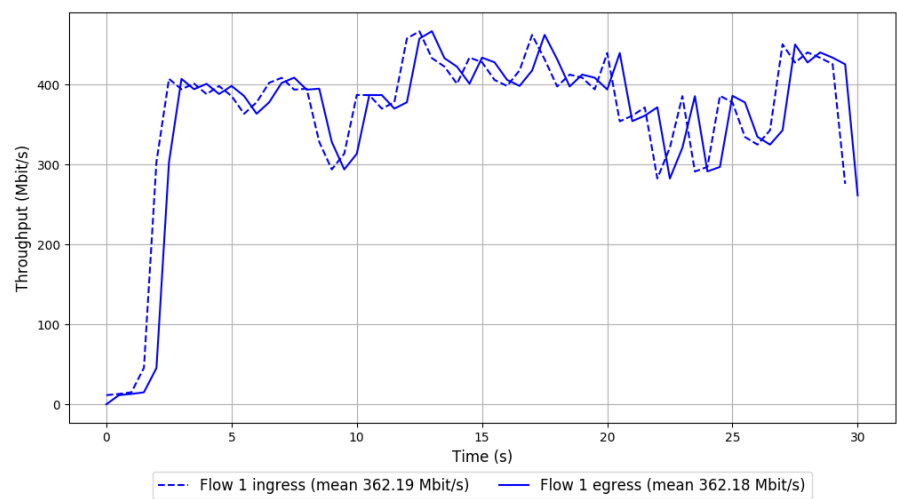


Run 5: Statistics of PCC-Expr

Start at: 2018-07-04 04:58:18
End at: 2018-07-04 04:58:48
Local clock offset: 4.397 ms
Remote clock offset: -0.877 ms

Below is generated by plot.py at 2018-07-04 08:52:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 362.18 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 362.18 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.07%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-04 05:24:12

End at: 2018-07-04 05:24:42

Local clock offset: 0.867 ms

Remote clock offset: -1.03 ms

Below is generated by plot.py at 2018-07-04 08:53:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.42 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.07%

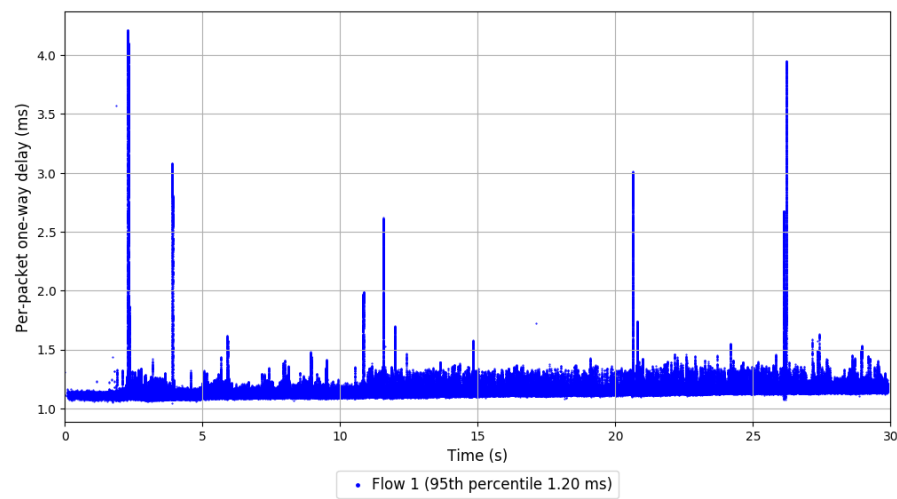
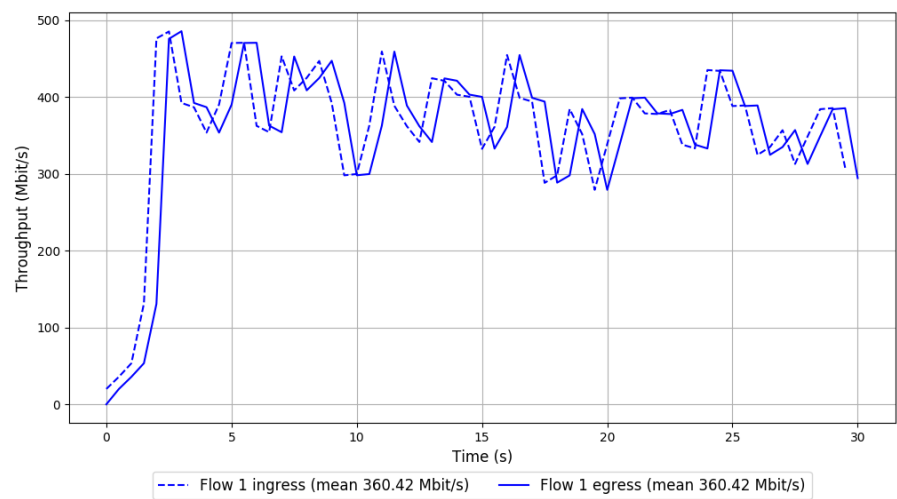
-- Flow 1:

Average throughput: 360.42 Mbit/s

95th percentile per-packet one-way delay: 1.195 ms

Loss rate: 0.07%

Run 6: Report of PCC-Expr — Data Link

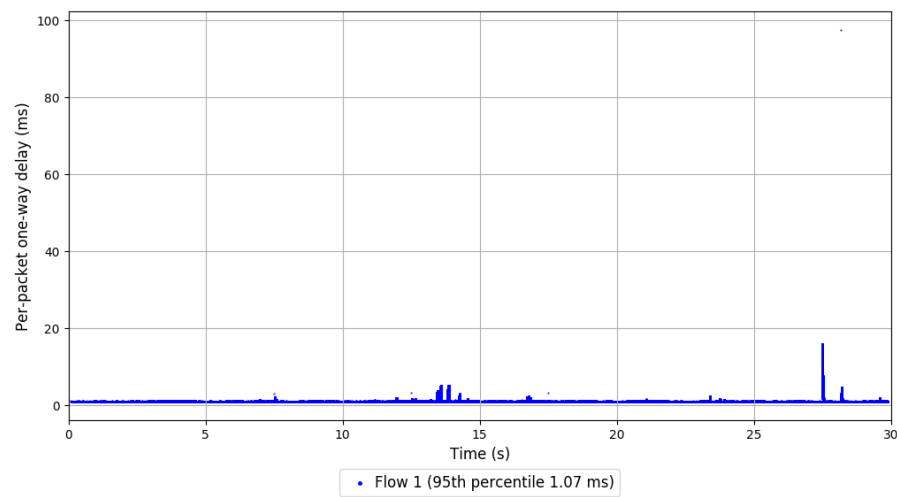
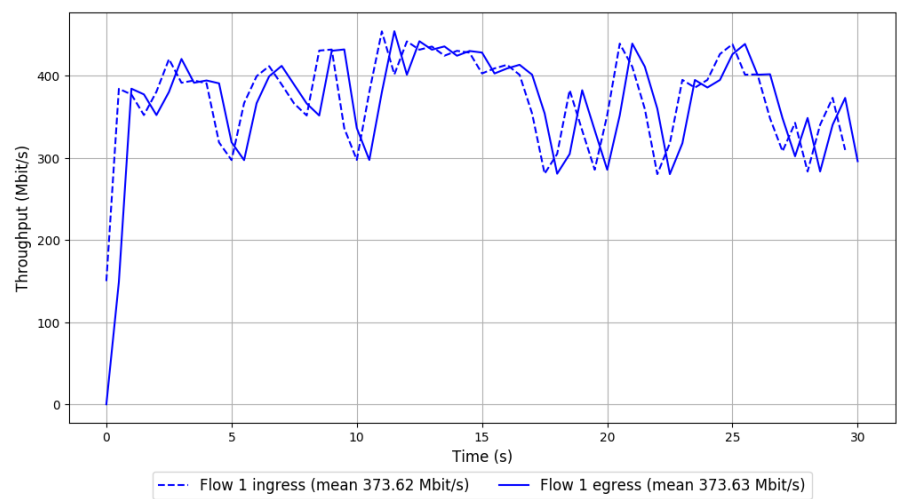


Run 7: Statistics of PCC-Expr

Start at: 2018-07-04 05:50:04
End at: 2018-07-04 05:50:34
Local clock offset: -0.257 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-07-04 08:59:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.63 Mbit/s
95th percentile per-packet one-way delay: 1.067 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 373.63 Mbit/s
95th percentile per-packet one-way delay: 1.067 ms
Loss rate: 0.07%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-04 06:15:59

End at: 2018-07-04 06:16:29

Local clock offset: 0.0 ms

Remote clock offset: 4.185 ms

Below is generated by plot.py at 2018-07-04 08:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.20 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.06%

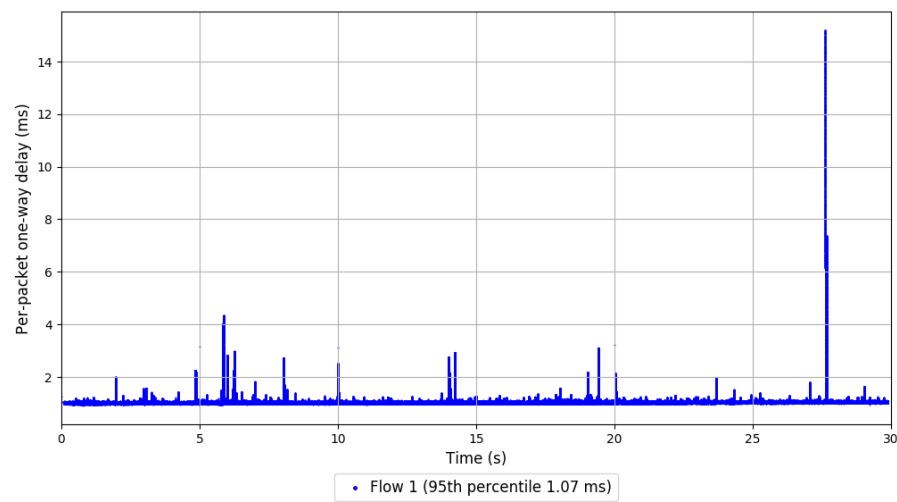
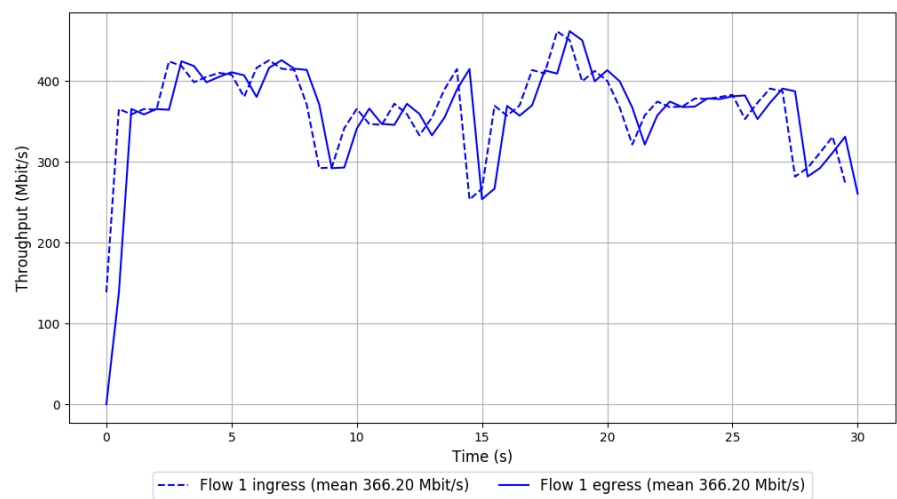
-- Flow 1:

Average throughput: 366.20 Mbit/s

95th percentile per-packet one-way delay: 1.075 ms

Loss rate: 0.06%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-04 06:41:58

End at: 2018-07-04 06:42:28

Local clock offset: -1.869 ms

Remote clock offset: 0.888 ms

Below is generated by plot.py at 2018-07-04 08:59:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.43 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.06%

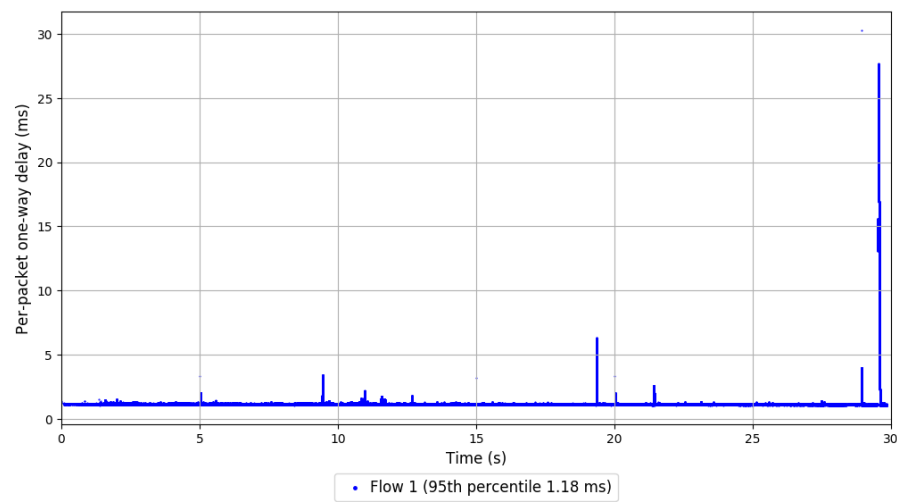
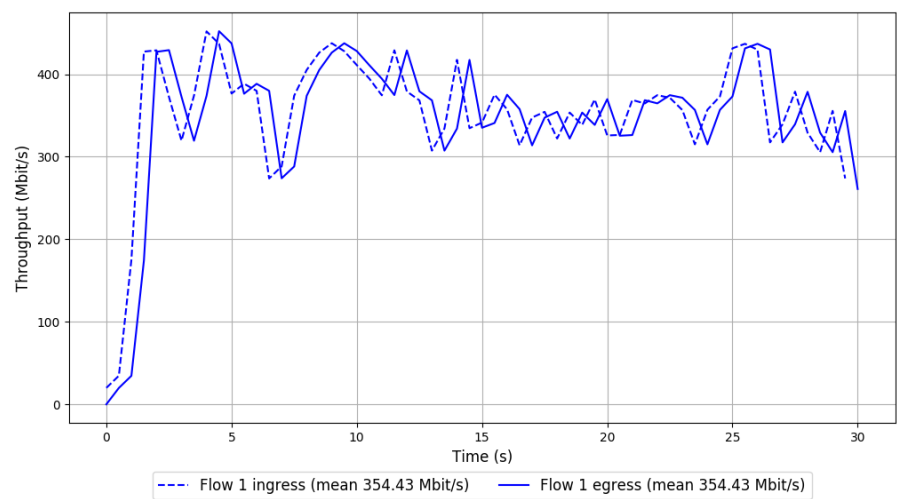
-- Flow 1:

Average throughput: 354.43 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.06%

Run 9: Report of PCC-Expr — Data Link

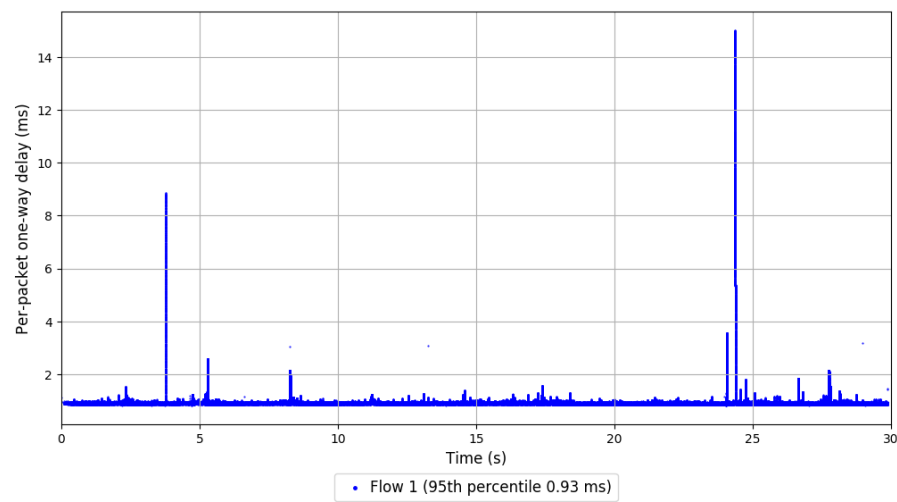
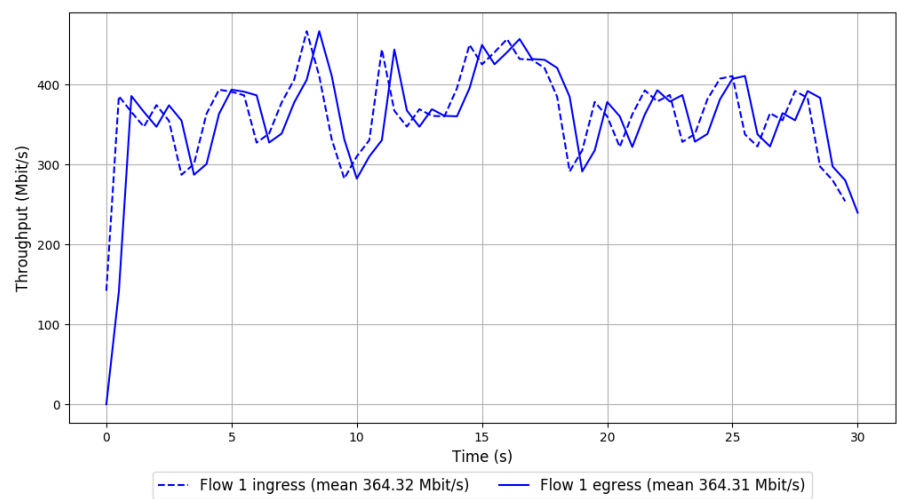


Run 10: Statistics of PCC-Expr

Start at: 2018-07-04 07:07:56
End at: 2018-07-04 07:08:26
Local clock offset: -0.651 ms
Remote clock offset: -1.287 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 364.31 Mbit/s
95th percentile per-packet one-way delay: 0.929 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 364.31 Mbit/s
95th percentile per-packet one-way delay: 0.929 ms
Loss rate: 0.07%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-04 03:03:44

End at: 2018-07-04 03:04:14

Local clock offset: -3.744 ms

Remote clock offset: 4.976 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 0.712 ms

Loss rate: 0.08%

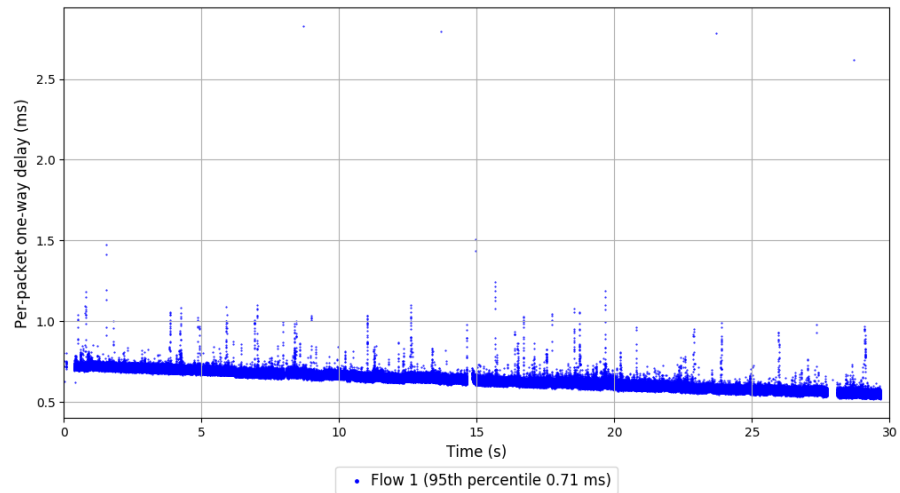
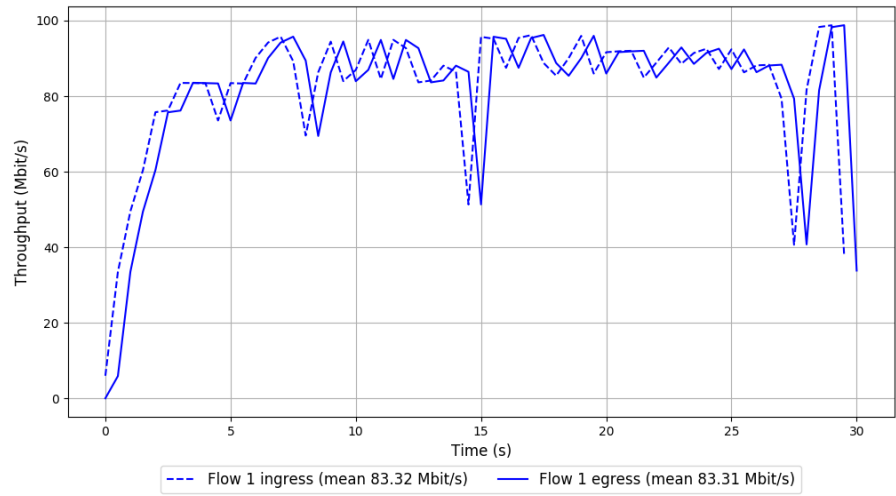
-- Flow 1:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 0.712 ms

Loss rate: 0.08%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-04 03:29:35

End at: 2018-07-04 03:30:05

Local clock offset: 0.385 ms

Remote clock offset: 0.657 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.07%

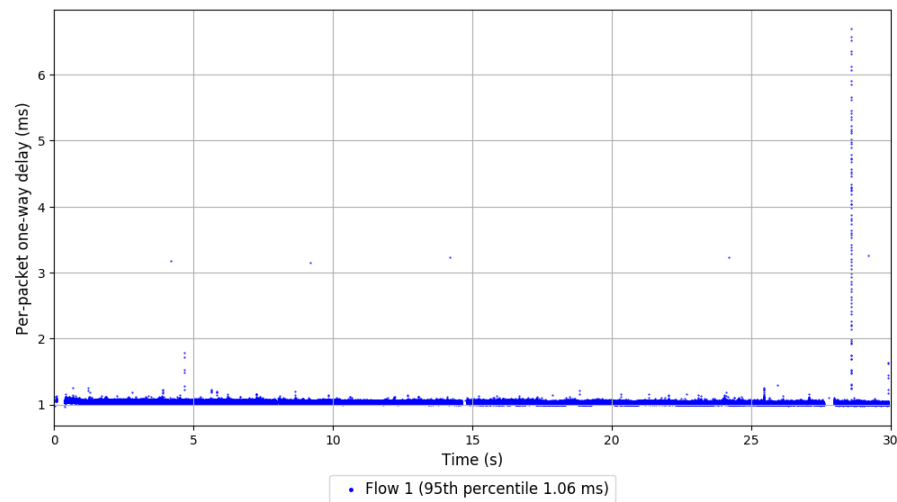
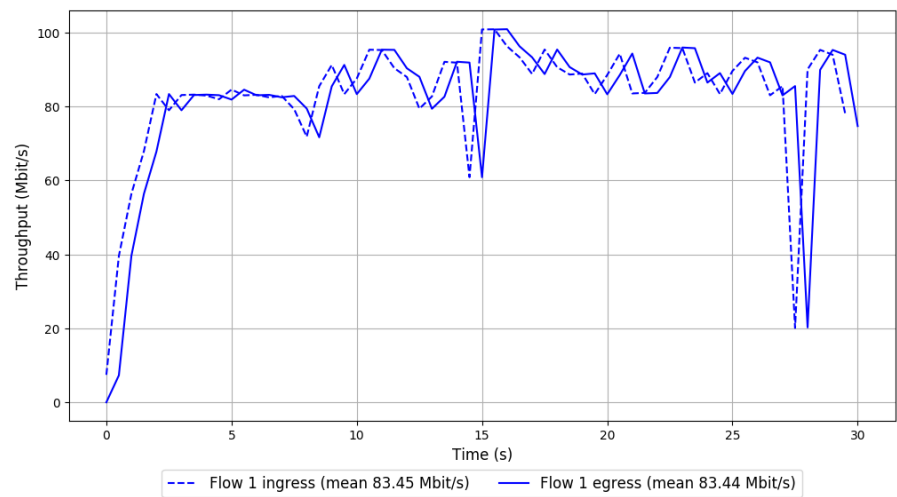
-- Flow 1:

Average throughput: 83.44 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-04 03:55:32

End at: 2018-07-04 03:56:02

Local clock offset: 0.493 ms

Remote clock offset: 3.341 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.51 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.06%

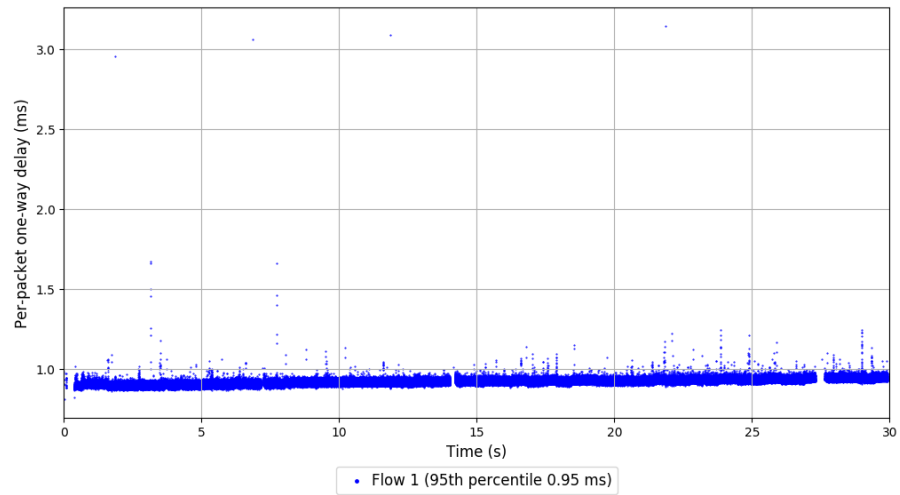
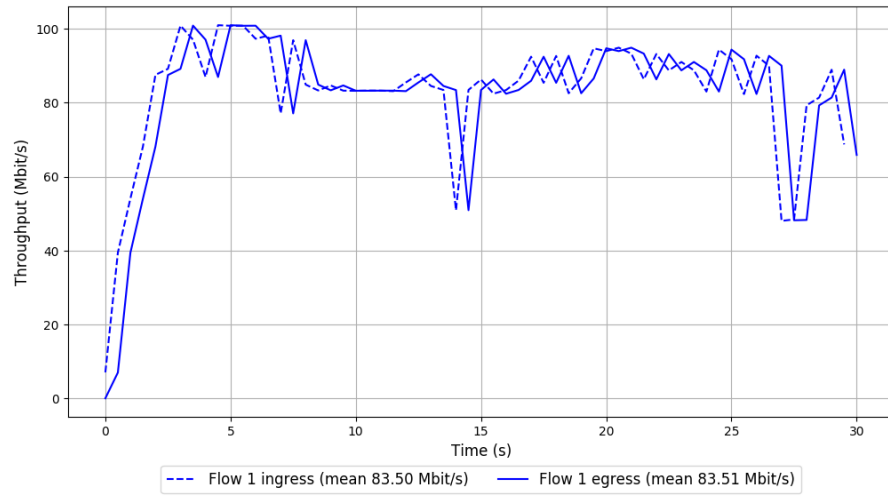
-- Flow 1:

Average throughput: 83.51 Mbit/s

95th percentile per-packet one-way delay: 0.952 ms

Loss rate: 0.06%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-04 04:21:31

End at: 2018-07-04 04:22:01

Local clock offset: 0.12 ms

Remote clock offset: 2.054 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.06%

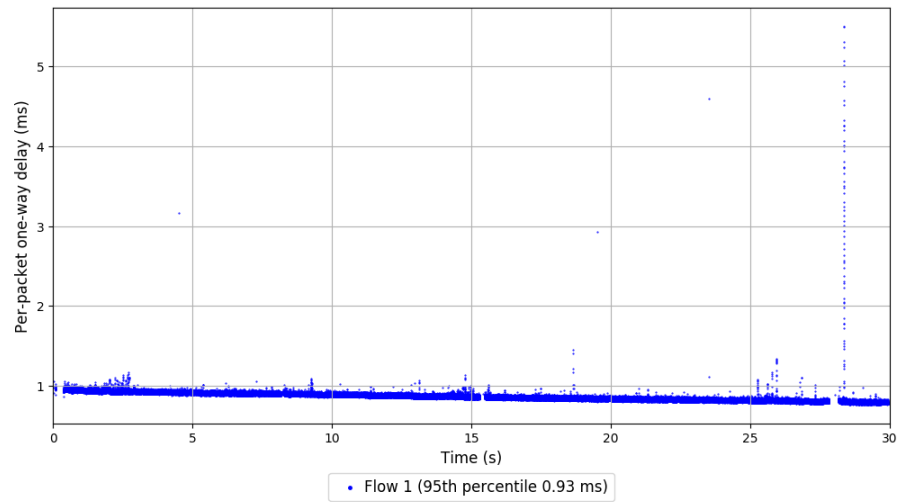
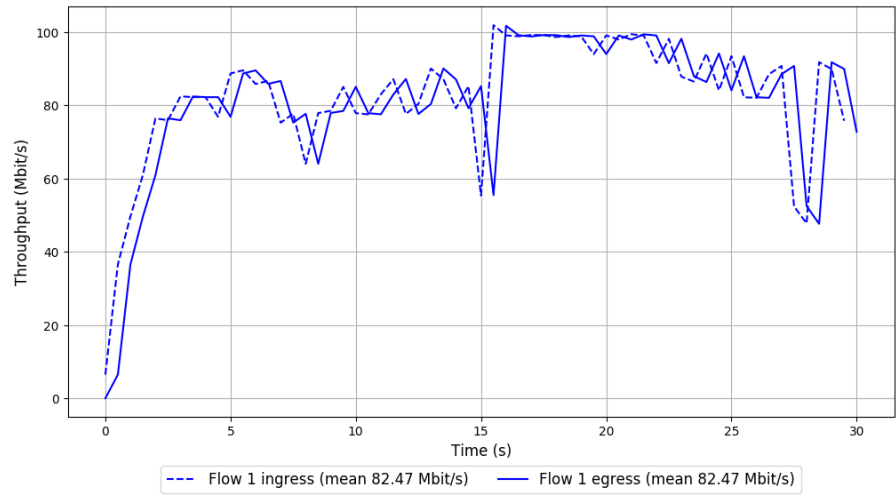
-- Flow 1:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 0.933 ms

Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-04 04:47:28

End at: 2018-07-04 04:47:58

Local clock offset: 3.39 ms

Remote clock offset: -1.385 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.07%

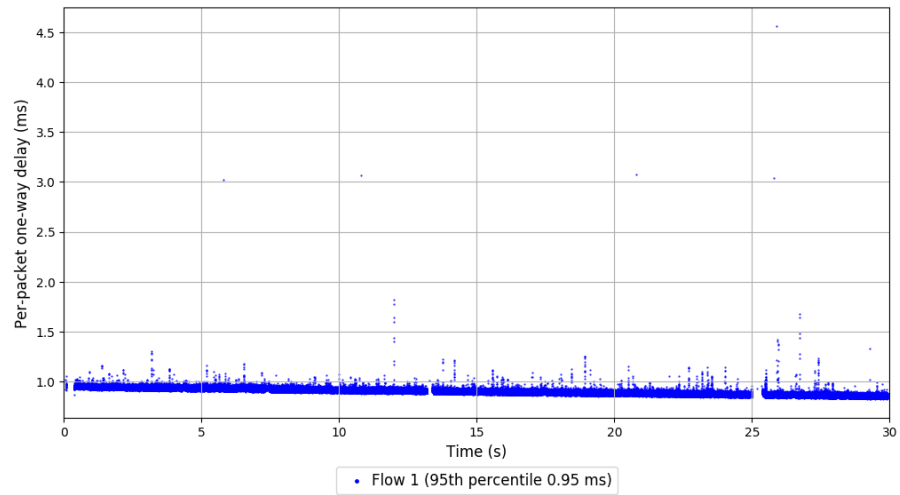
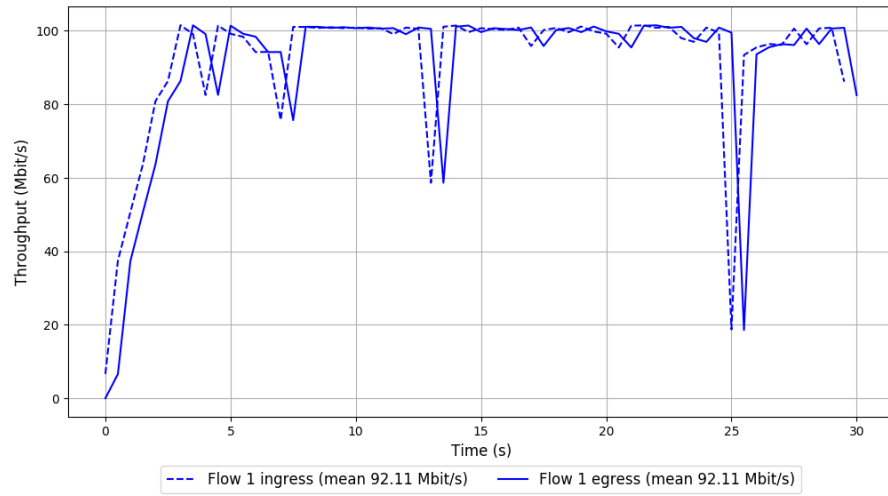
-- Flow 1:

Average throughput: 92.11 Mbit/s

95th percentile per-packet one-way delay: 0.948 ms

Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-04 05:13:23

End at: 2018-07-04 05:13:53

Local clock offset: 1.833 ms

Remote clock offset: -0.864 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.07%

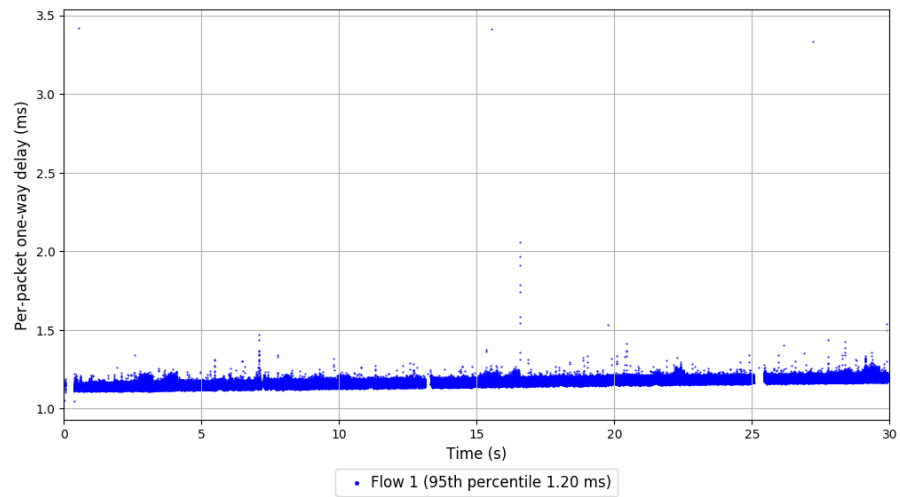
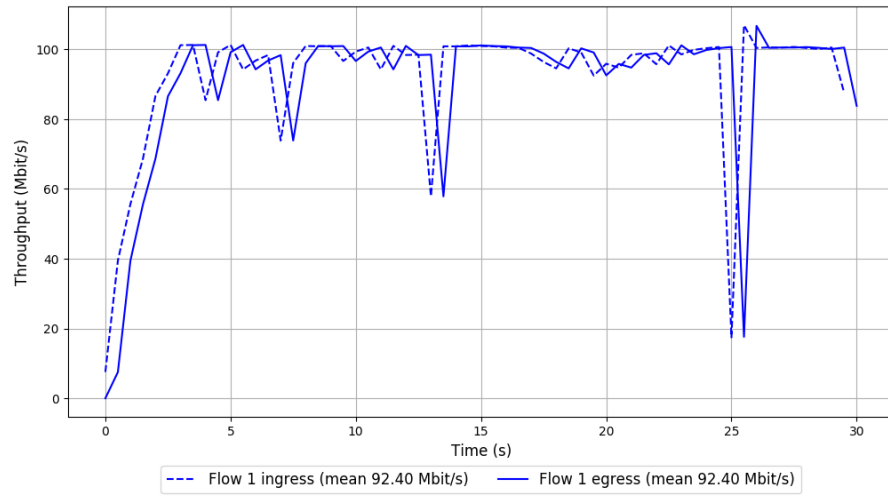
-- Flow 1:

Average throughput: 92.40 Mbit/s

95th percentile per-packet one-way delay: 1.203 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-04 05:39:22

End at: 2018-07-04 05:39:52

Local clock offset: 0.18 ms

Remote clock offset: -0.366 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.07%

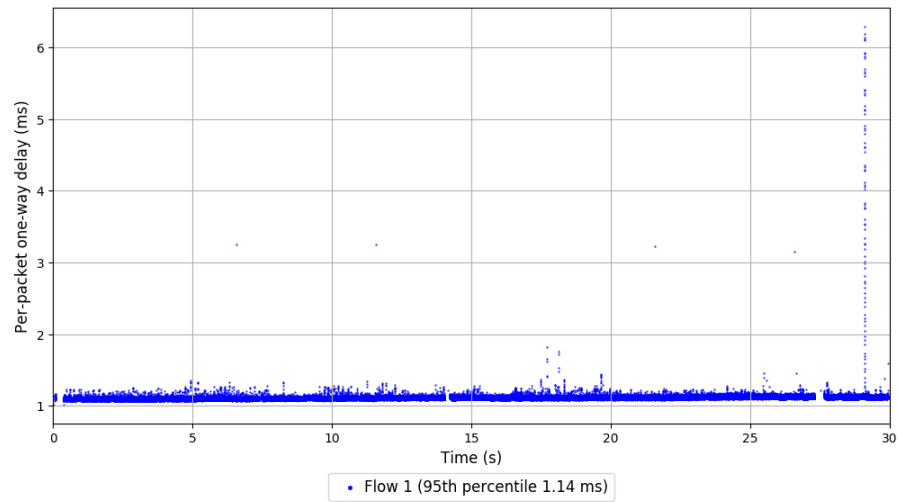
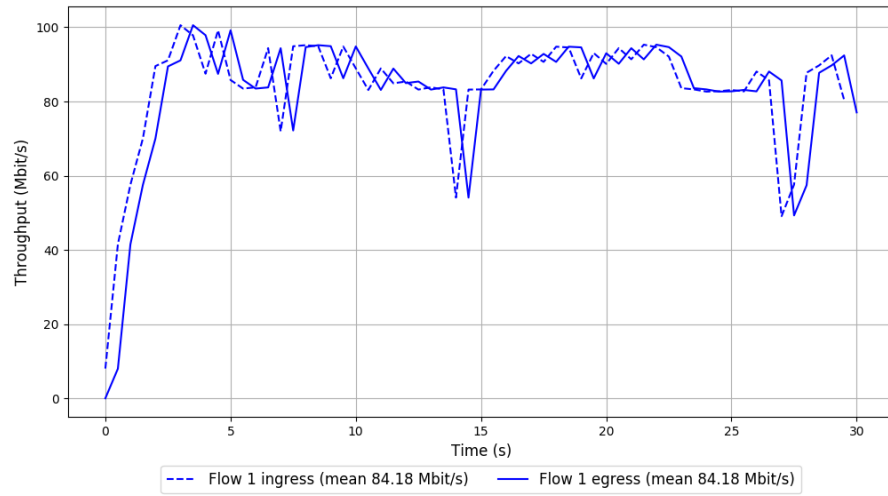
-- Flow 1:

Average throughput: 84.18 Mbit/s

95th percentile per-packet one-way delay: 1.140 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-04 06:05:07

End at: 2018-07-04 06:05:37

Local clock offset: -0.446 ms

Remote clock offset: 2.411 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.07%

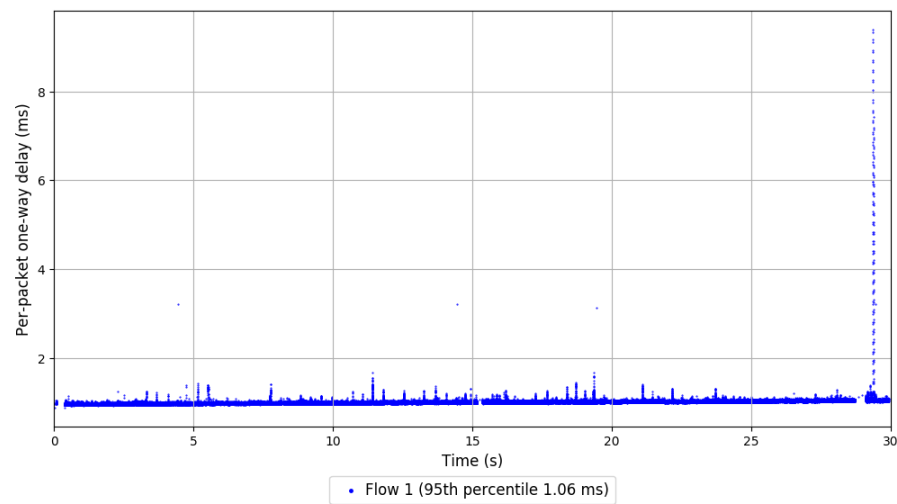
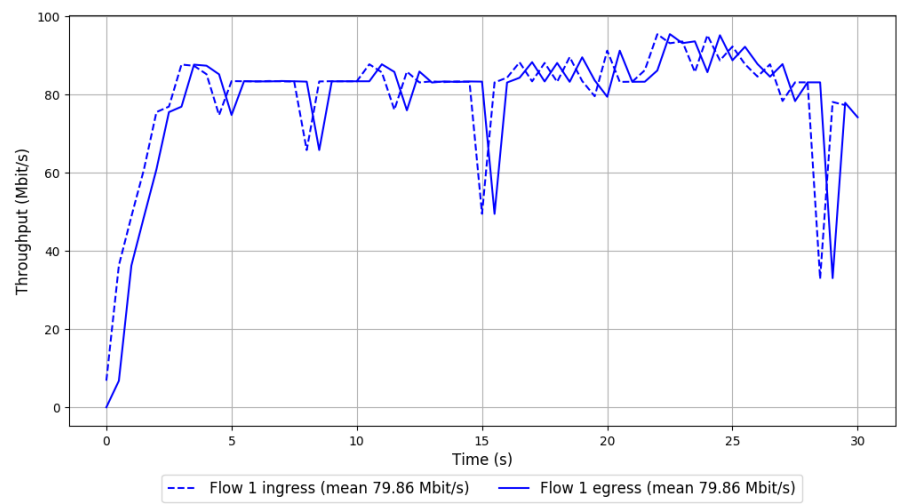
-- Flow 1:

Average throughput: 79.86 Mbit/s

95th percentile per-packet one-way delay: 1.058 ms

Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-04 06:31:07

End at: 2018-07-04 06:31:37

Local clock offset: 0.236 ms

Remote clock offset: 5.387 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.07%

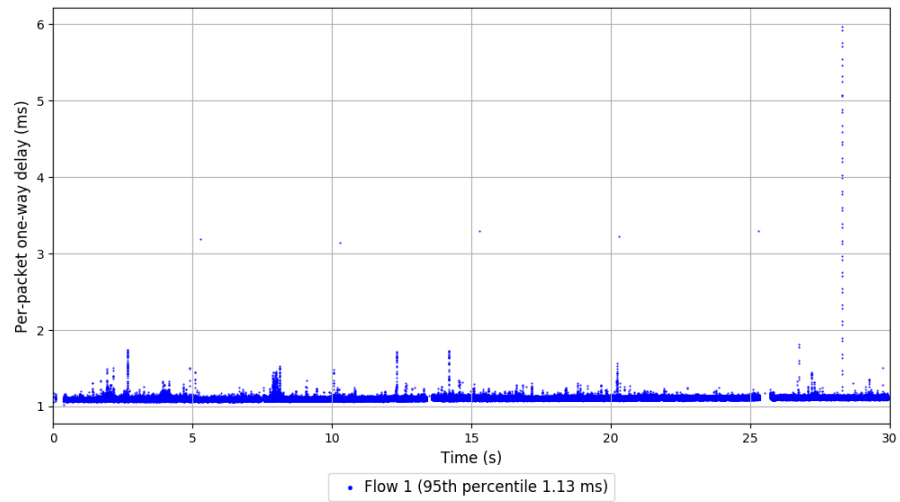
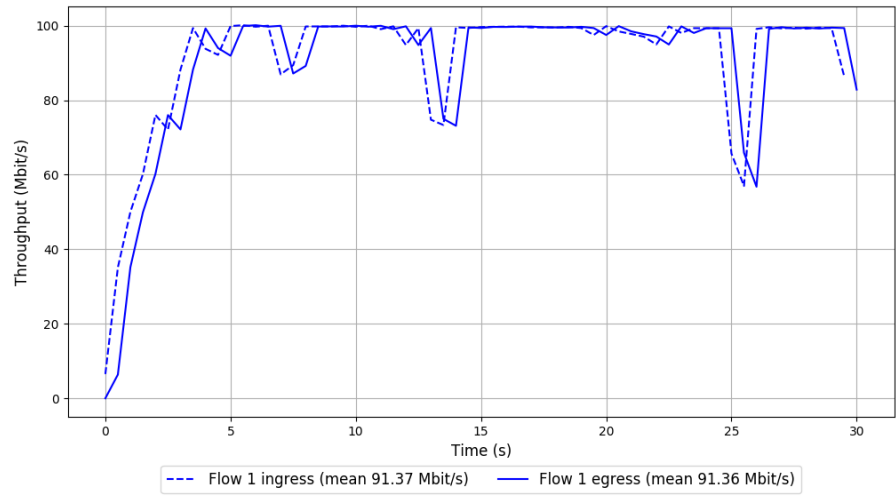
-- Flow 1:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.07%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-04 06:57:07

End at: 2018-07-04 06:57:37

Local clock offset: -3.353 ms

Remote clock offset: -1.53 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.07%

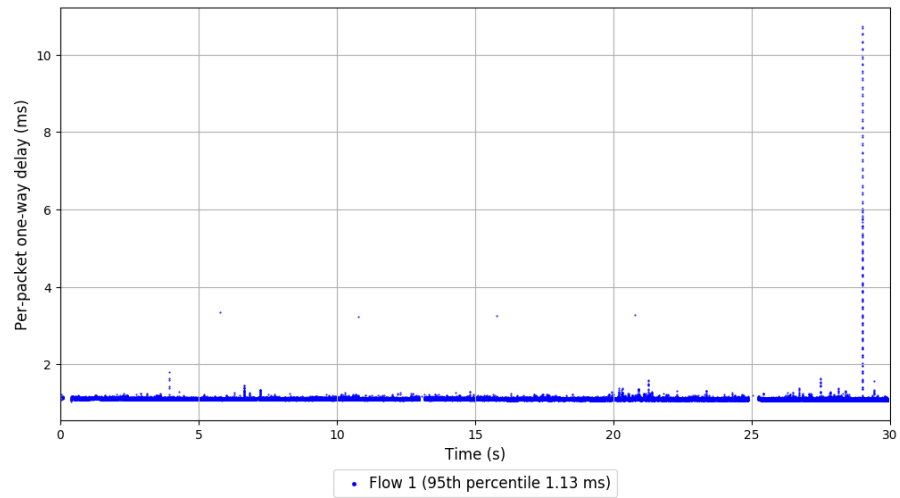
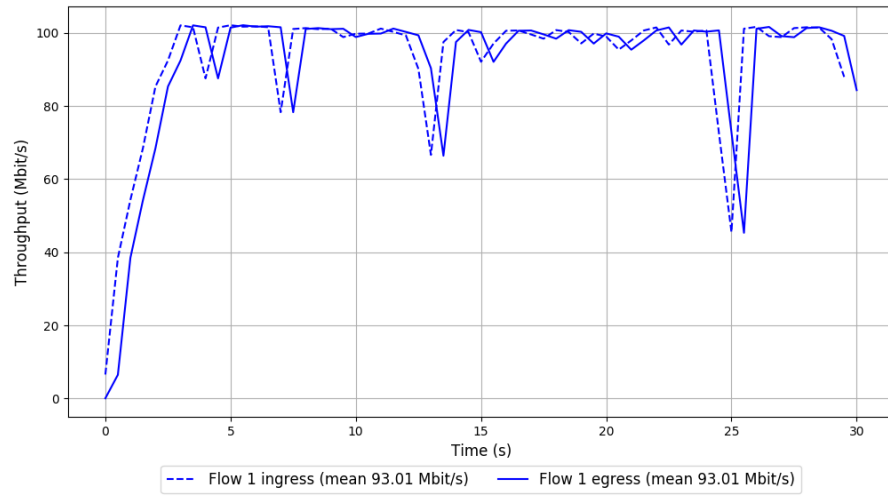
-- Flow 1:

Average throughput: 93.01 Mbit/s

95th percentile per-packet one-way delay: 1.129 ms

Loss rate: 0.07%

Run 10: Report of QUIC Cubic — Data Link

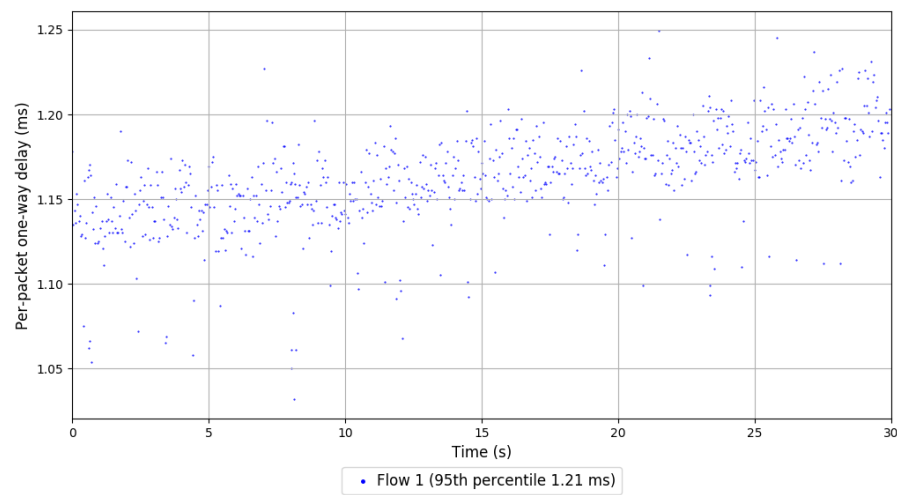
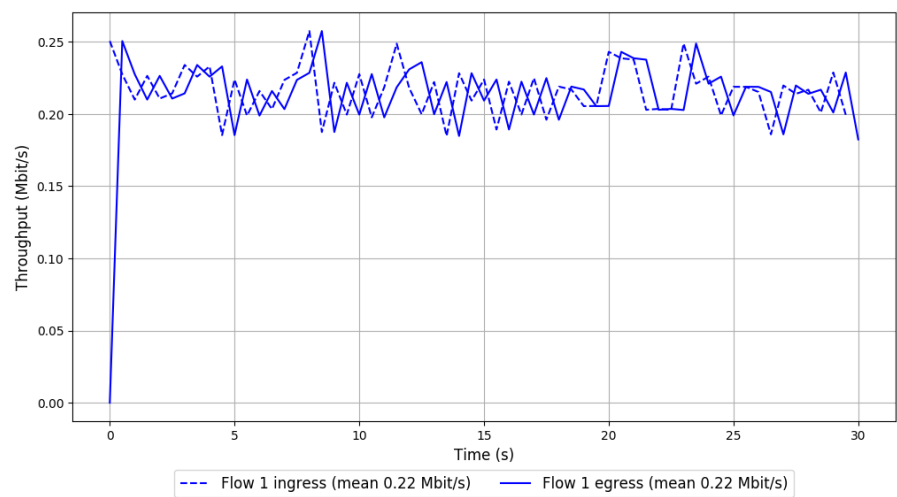


```
Run 1: Statistics of SCReAM

Start at: 2018-07-04 02:59:31
End at: 2018-07-04 03:00:01
Local clock offset: -3.913 ms
Remote clock offset: 4.491 ms

# Below is generated by plot.py at 2018-07-04 09:00:11
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.205 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-04 03:25:23

End at: 2018-07-04 03:25:53

Local clock offset: 0.196 ms

Remote clock offset: 0.852 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.13%

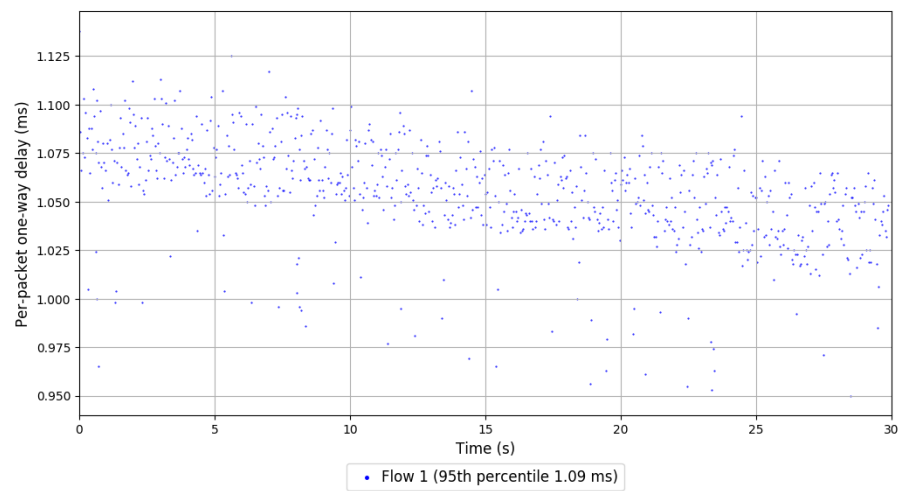
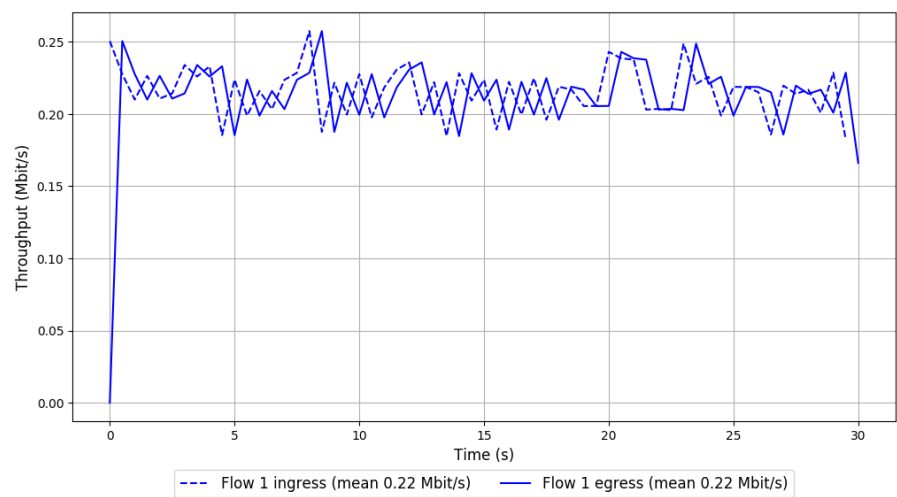
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-04 03:51:20

End at: 2018-07-04 03:51:50

Local clock offset: 0.564 ms

Remote clock offset: 2.8 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.13%

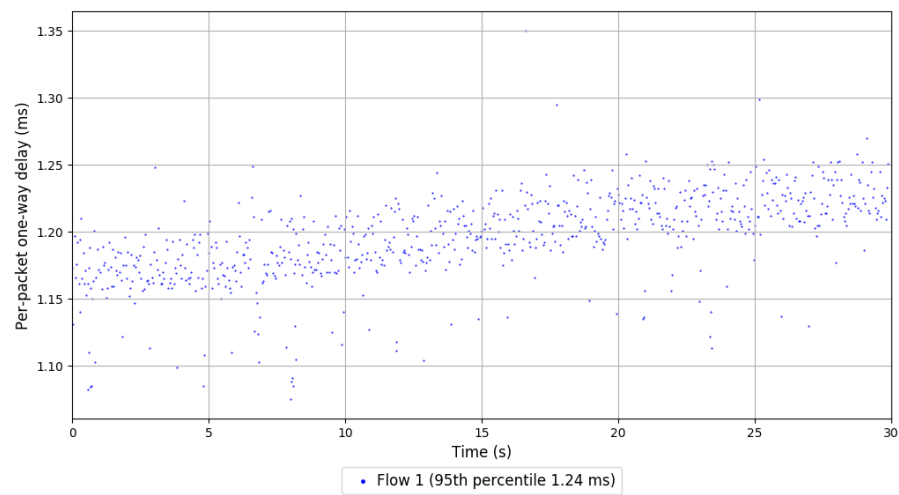
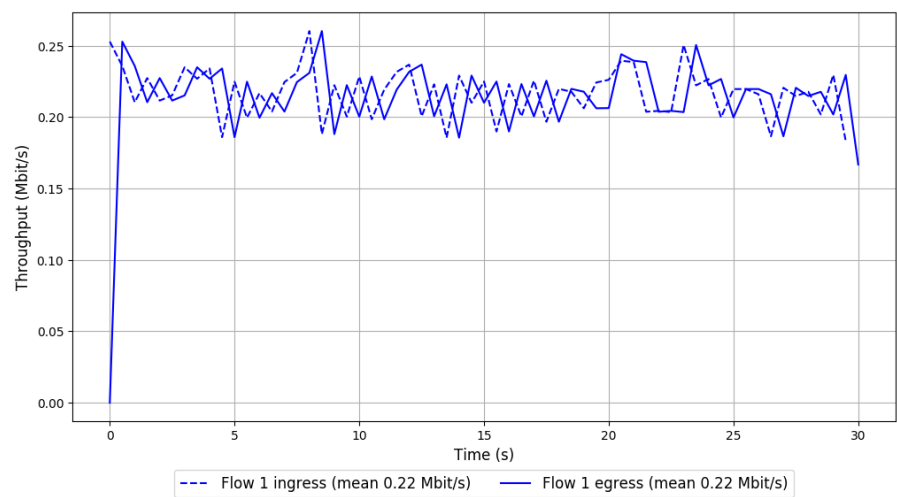
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.243 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-04 04:17:19

End at: 2018-07-04 04:17:49

Local clock offset: 0.204 ms

Remote clock offset: 3.609 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.13%

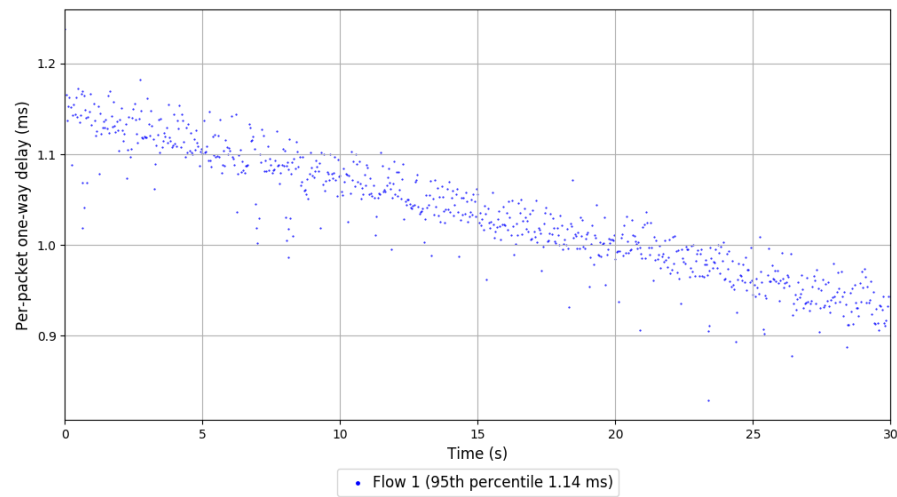
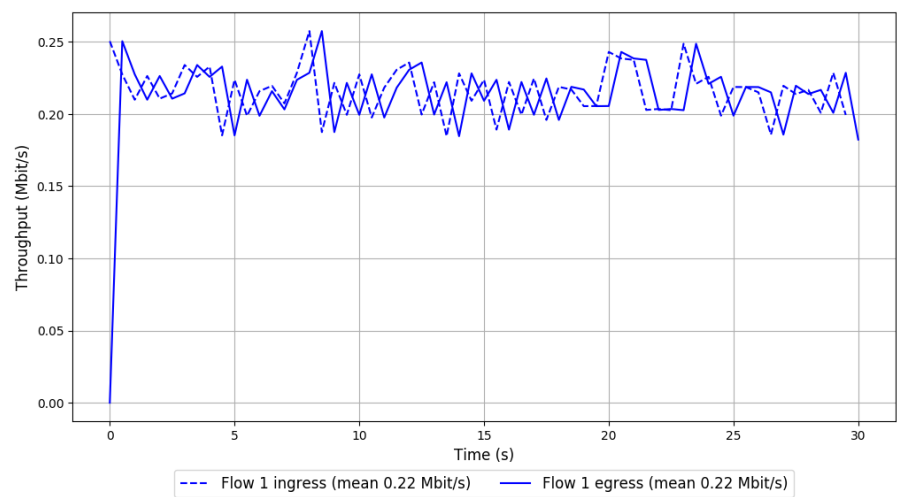
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link

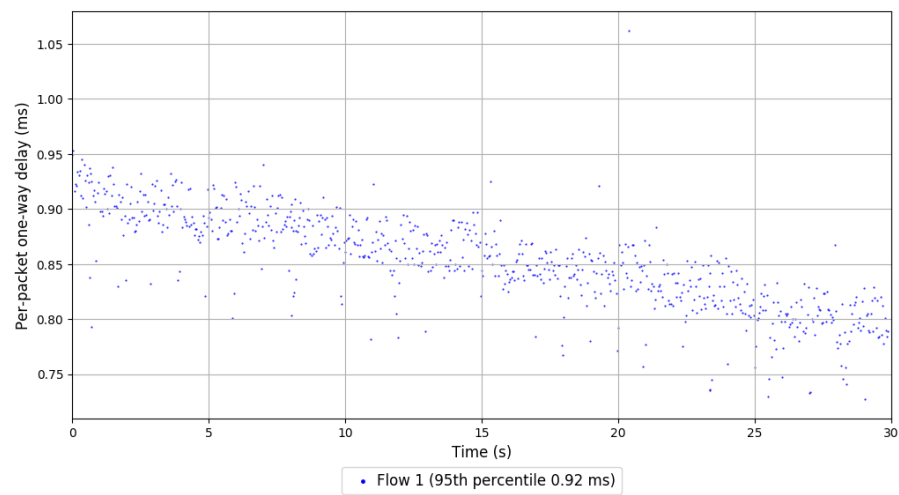
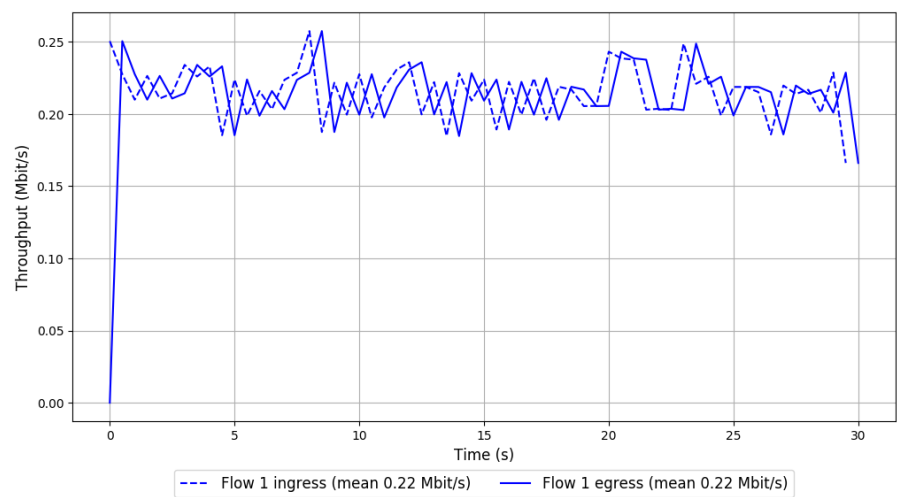


Run 5: Statistics of SCReAM

Start at: 2018-07-04 04:43:15
End at: 2018-07-04 04:43:45
Local clock offset: 2.686 ms
Remote clock offset: -1.031 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.921 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.921 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

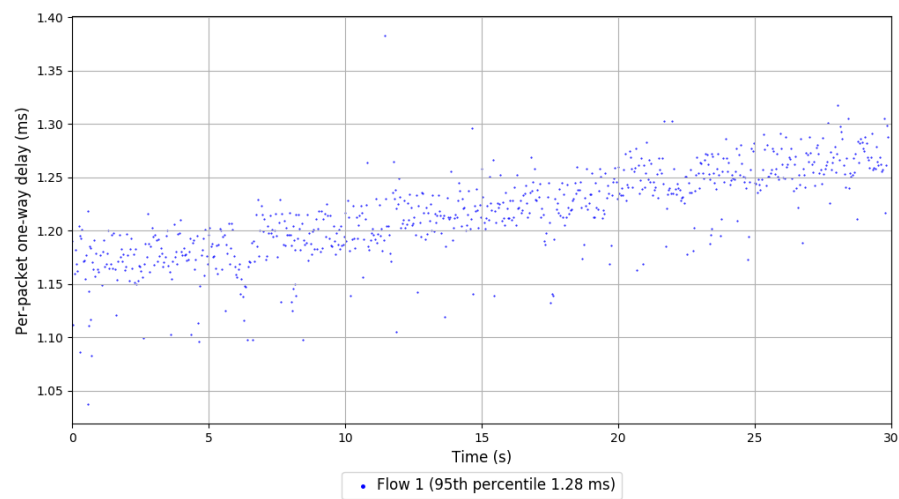
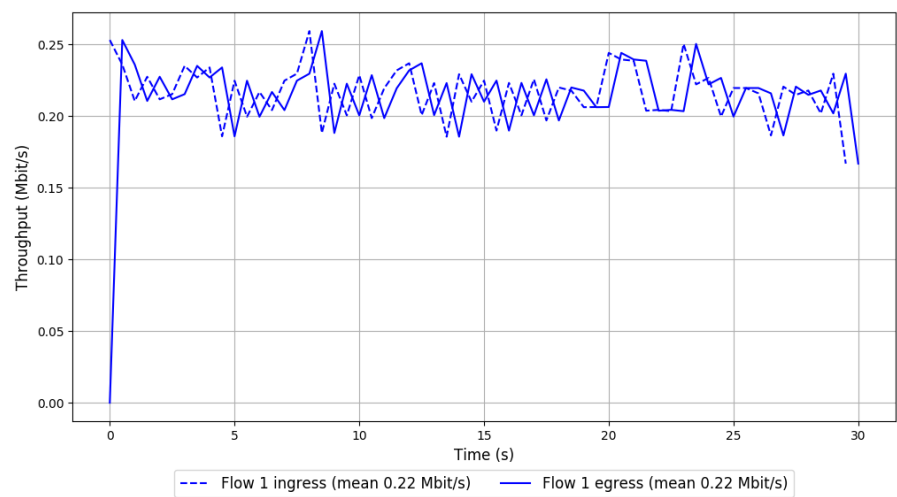


Run 6: Statistics of SCReAM

Start at: 2018-07-04 05:09:09
End at: 2018-07-04 05:09:39
Local clock offset: 2.625 ms
Remote clock offset: -0.735 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

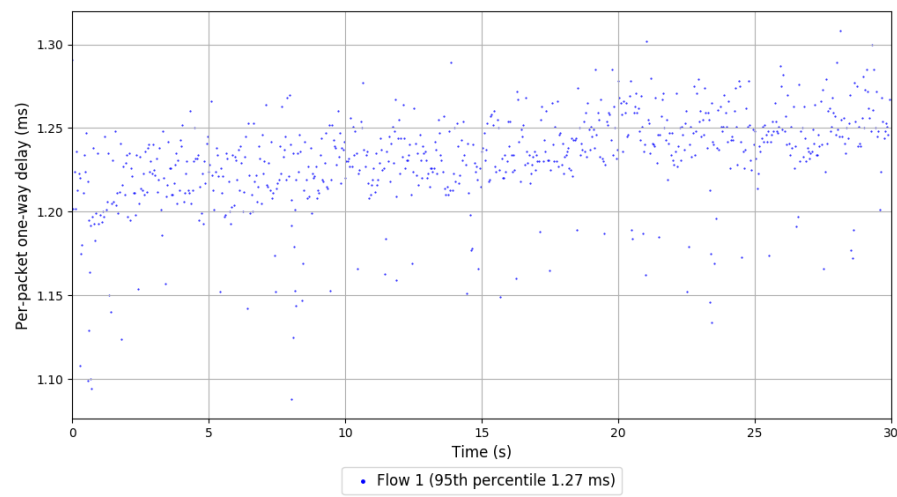
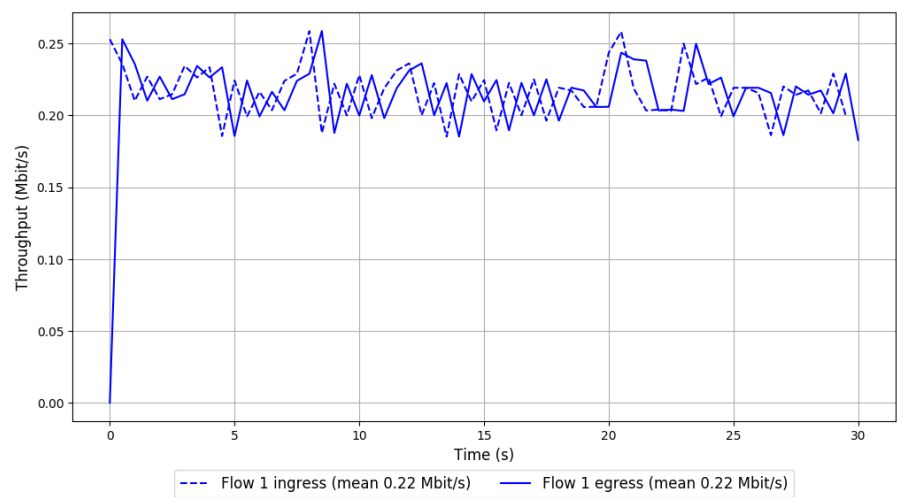


Run 7: Statistics of SCReAM

Start at: 2018-07-04 05:35:10
End at: 2018-07-04 05:35:40
Local clock offset: 0.464 ms
Remote clock offset: -0.417 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.271 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.271 ms
Loss rate: 0.13%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-04 06:00:54

End at: 2018-07-04 06:01:24

Local clock offset: -0.463 ms

Remote clock offset: 1.097 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.448 ms

Loss rate: 0.13%

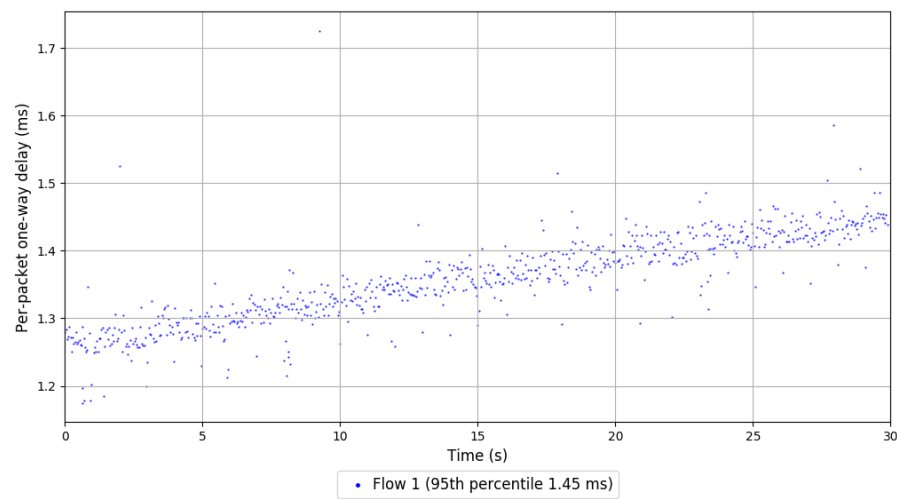
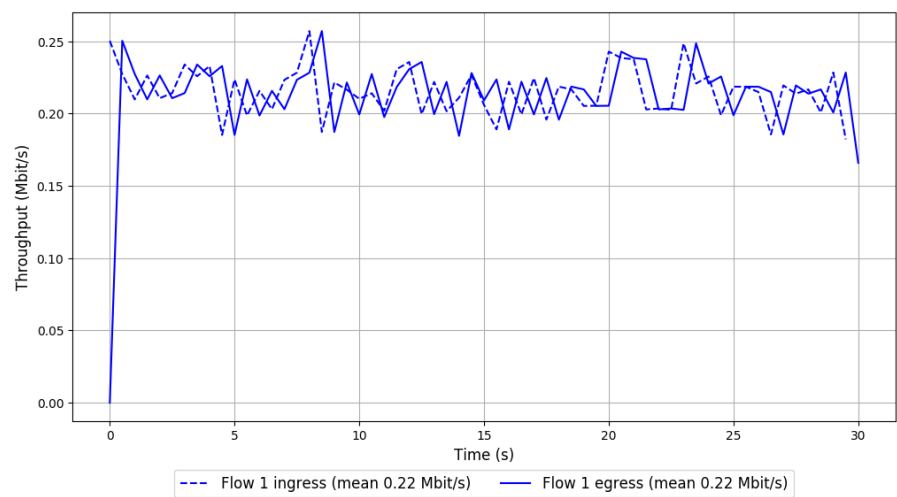
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.448 ms

Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-04 06:26:55

End at: 2018-07-04 06:27:25

Local clock offset: 0.21 ms

Remote clock offset: 5.131 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 0.00%

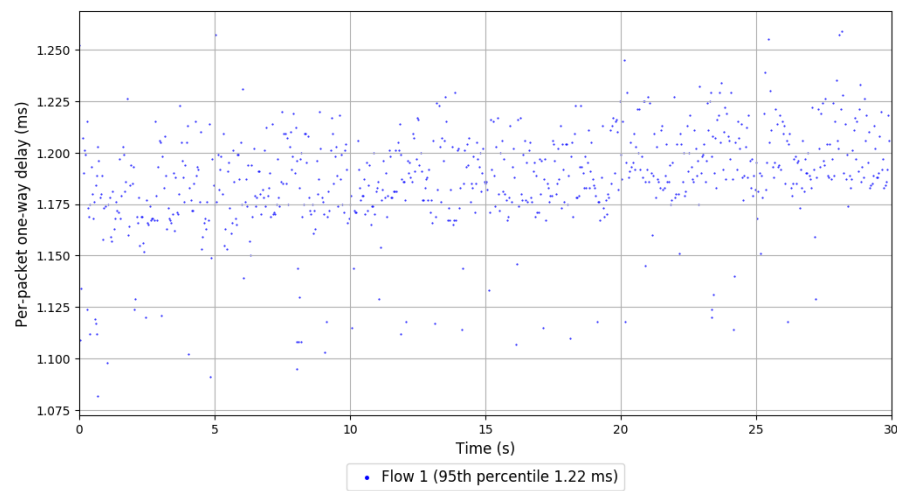
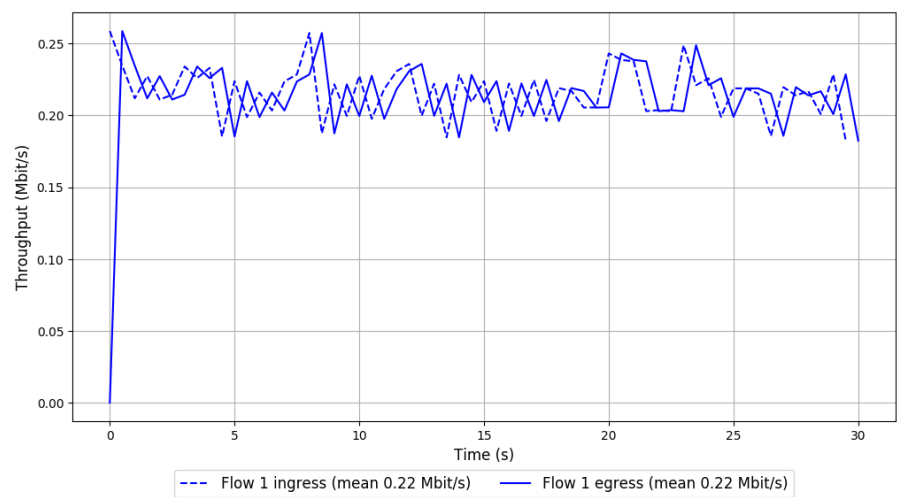
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.222 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-04 06:52:55

End at: 2018-07-04 06:53:25

Local clock offset: -3.094 ms

Remote clock offset: -1.005 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.13%

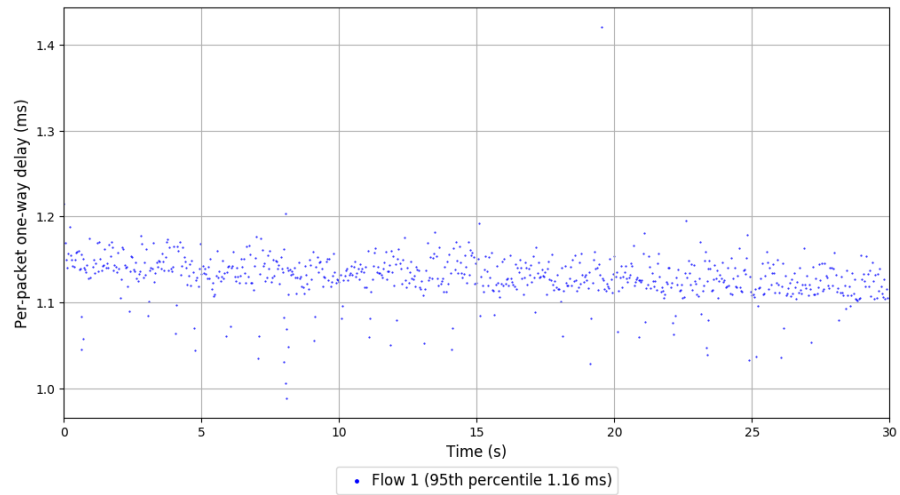
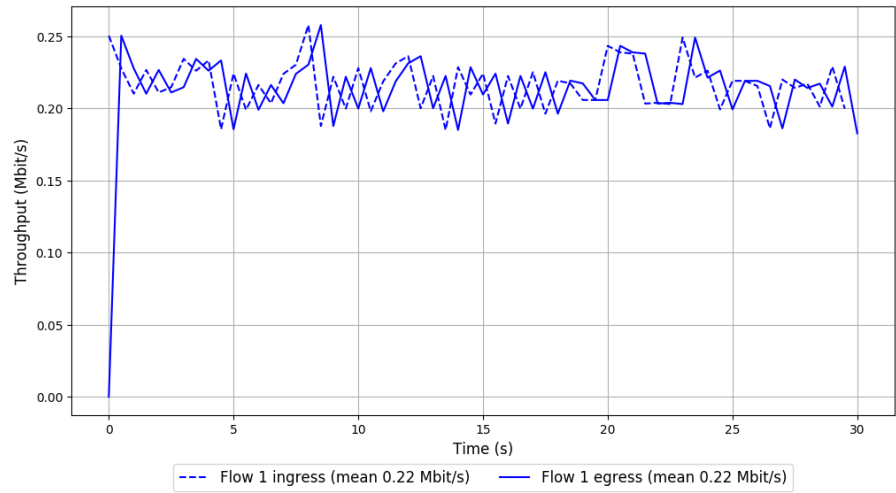
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.13%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-04 03:00:49

End at: 2018-07-04 03:01:19

Local clock offset: -3.969 ms

Remote clock offset: 4.583 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.16%

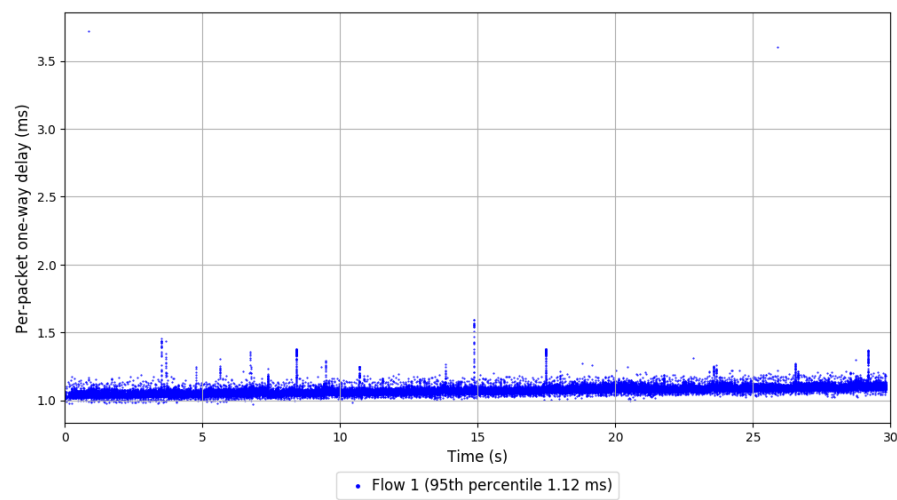
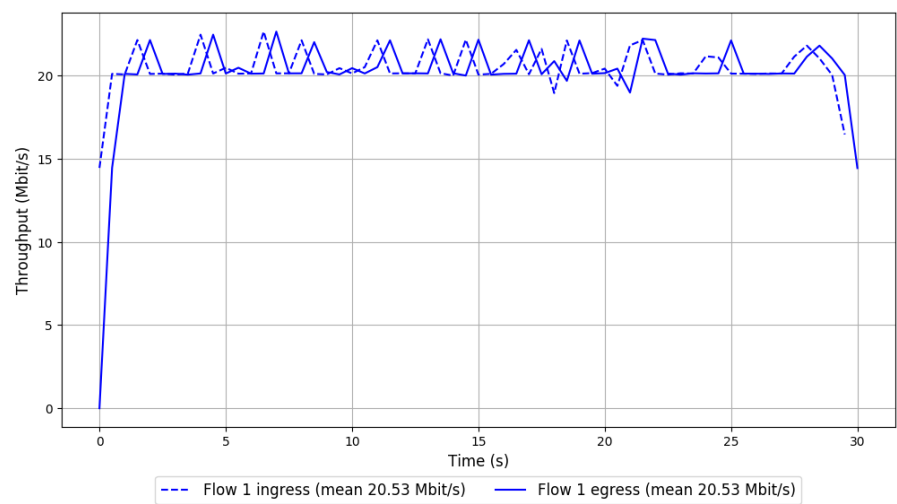
-- Flow 1:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.119 ms

Loss rate: 0.16%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-07-04 03:26:40

End at: 2018-07-04 03:27:10

Local clock offset: 0.184 ms

Remote clock offset: 0.844 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 0.899 ms

Loss rate: 0.00%

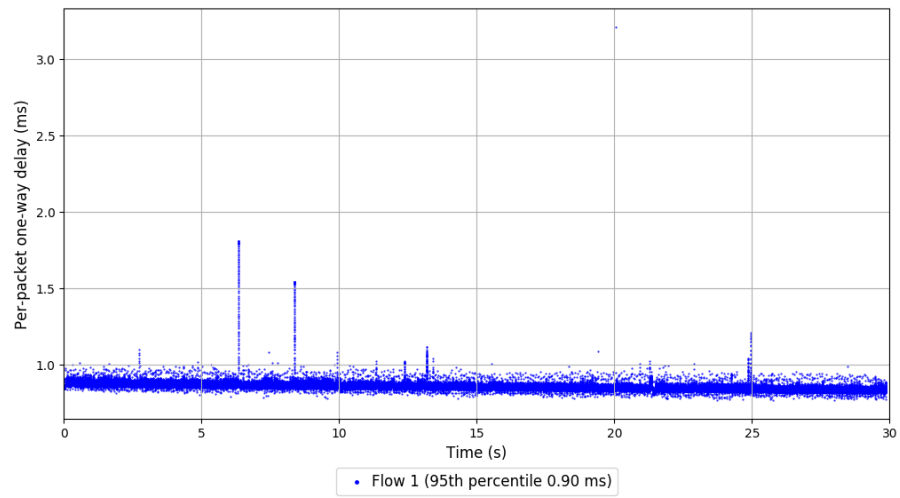
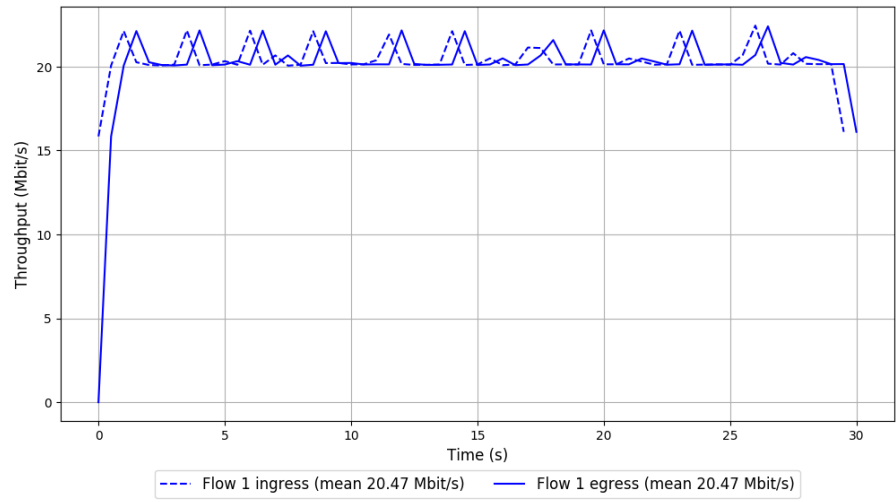
-- Flow 1:

Average throughput: 20.47 Mbit/s

95th percentile per-packet one-way delay: 0.899 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-04 03:52:37

End at: 2018-07-04 03:53:07

Local clock offset: 0.49 ms

Remote clock offset: 3.029 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.46 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 0.16%

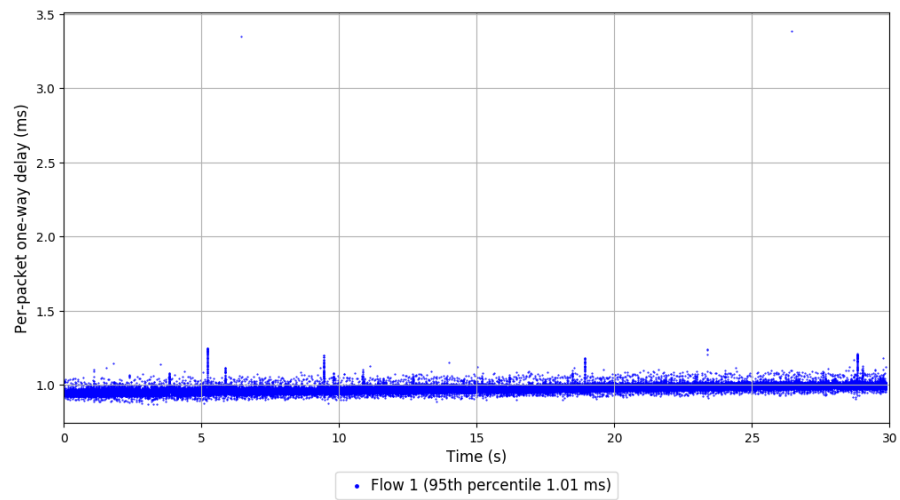
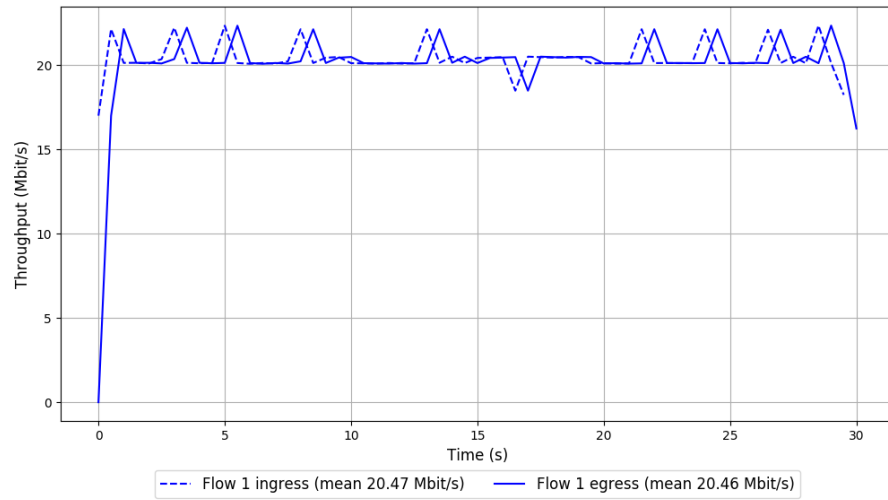
-- Flow 1:

Average throughput: 20.46 Mbit/s

95th percentile per-packet one-way delay: 1.011 ms

Loss rate: 0.16%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-04 04:18:36

End at: 2018-07-04 04:19:06

Local clock offset: 0.07 ms

Remote clock offset: 3.082 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.00%

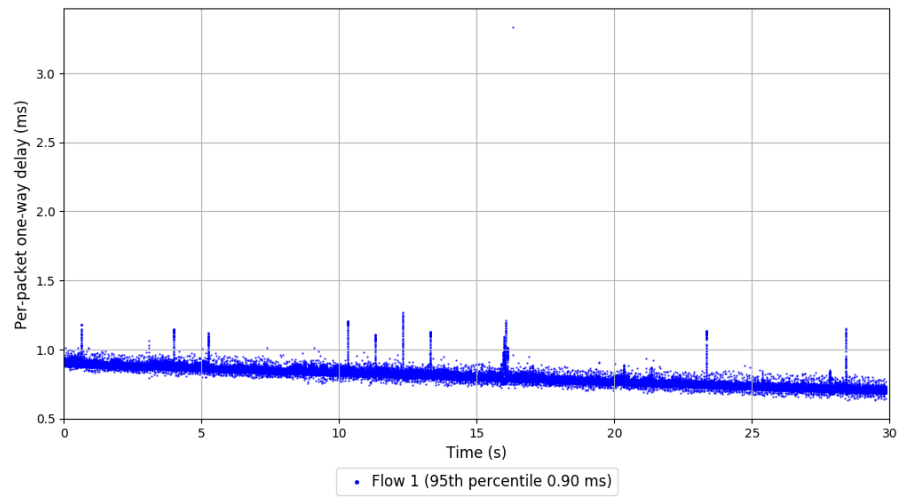
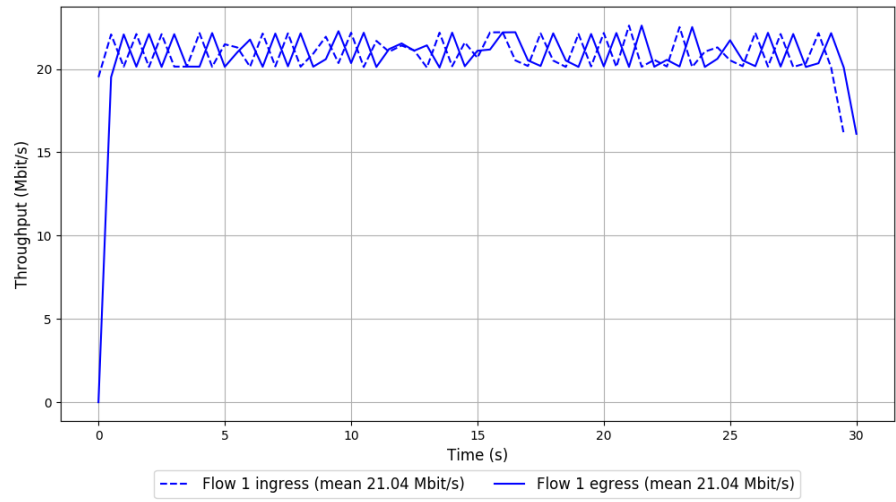
-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 0.900 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link

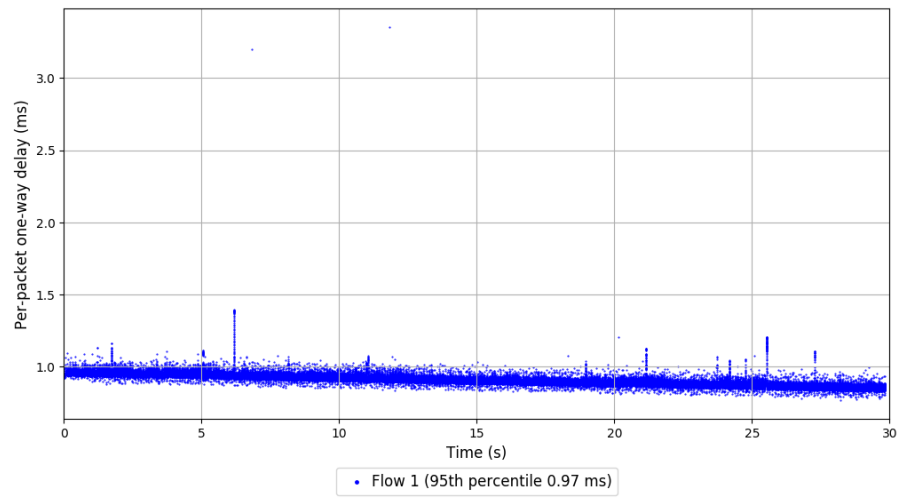
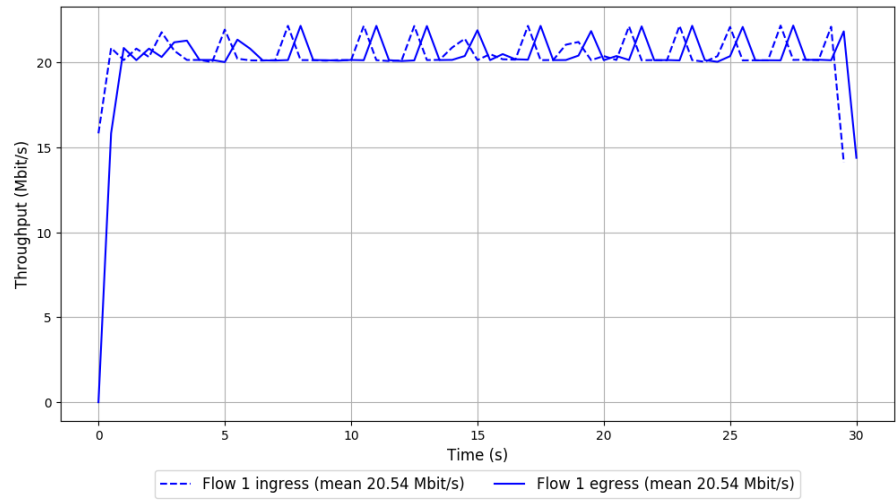


Run 5: Statistics of Sprout

Start at: 2018-07-04 04:44:32
End at: 2018-07-04 04:45:02
Local clock offset: 2.977 ms
Remote clock offset: -1.177 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.54 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

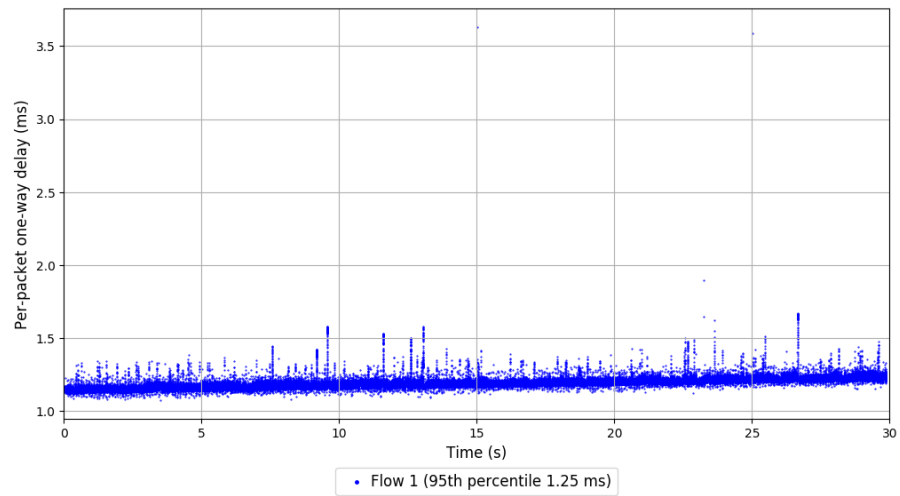
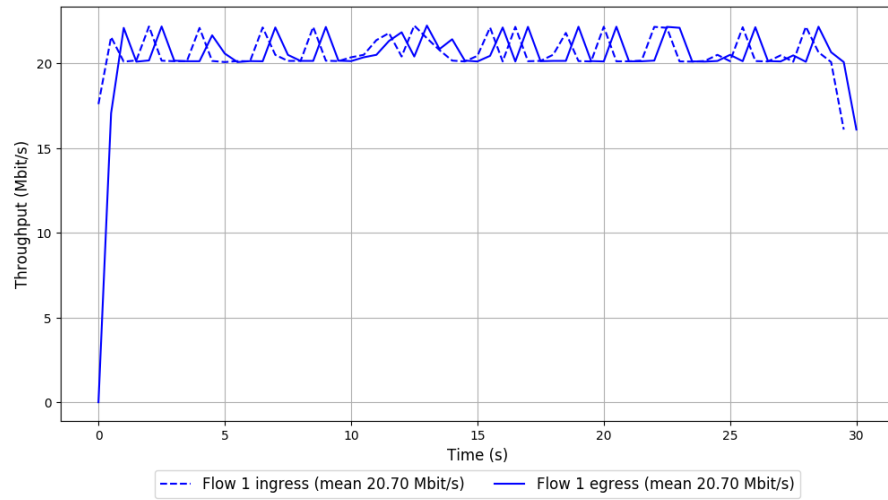


Run 6: Statistics of Sprout

Start at: 2018-07-04 05:10:27
End at: 2018-07-04 05:10:57
Local clock offset: 2.366 ms
Remote clock offset: -0.767 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 1.250 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

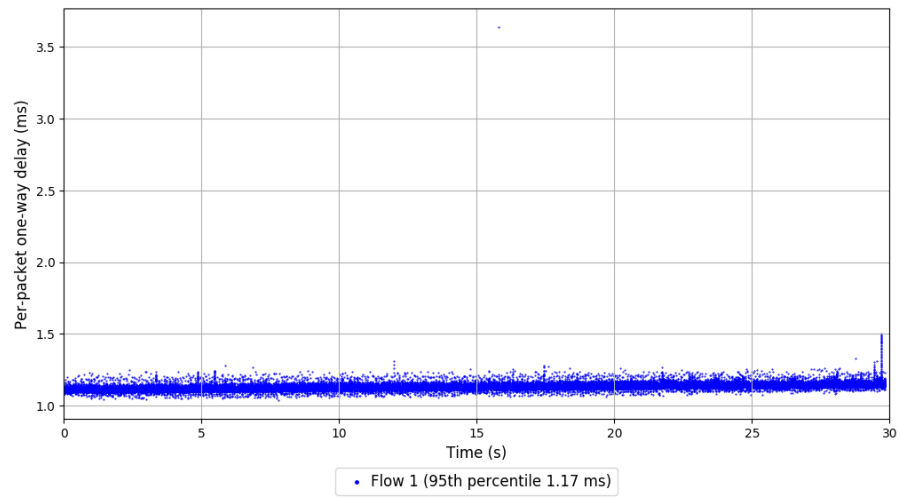
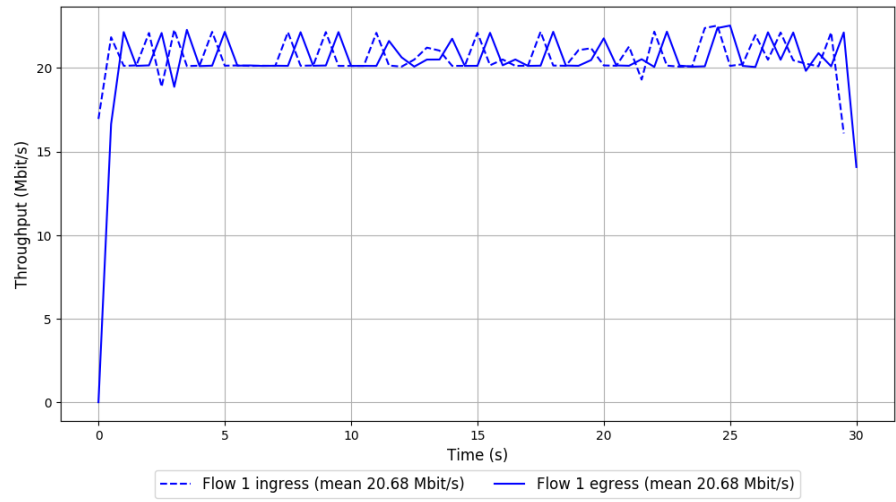


Run 7: Statistics of Sprout

Start at: 2018-07-04 05:36:27
End at: 2018-07-04 05:36:57
Local clock offset: 0.377 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-07-04 09:00:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.68 Mbit/s
95th percentile per-packet one-way delay: 1.168 ms
Loss rate: 0.16%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-04 06:02:11

End at: 2018-07-04 06:02:41

Local clock offset: -0.466 ms

Remote clock offset: 1.568 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 1.329 ms

Loss rate: 0.00%

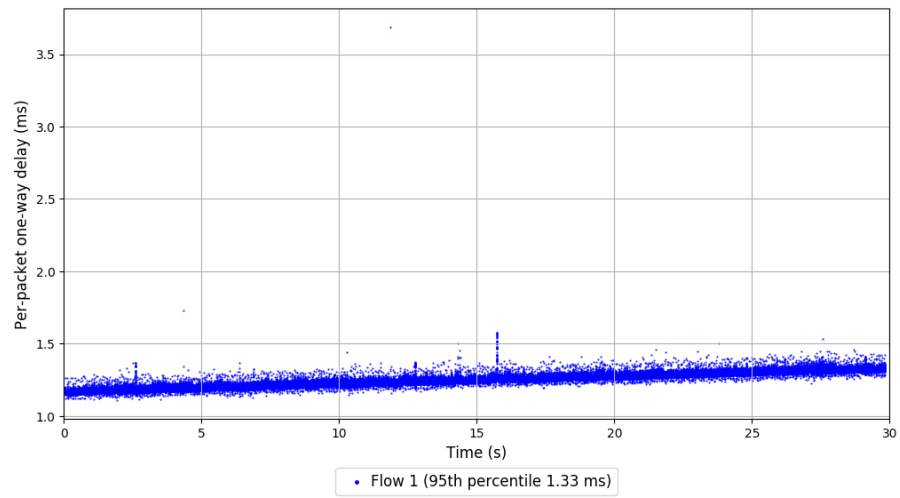
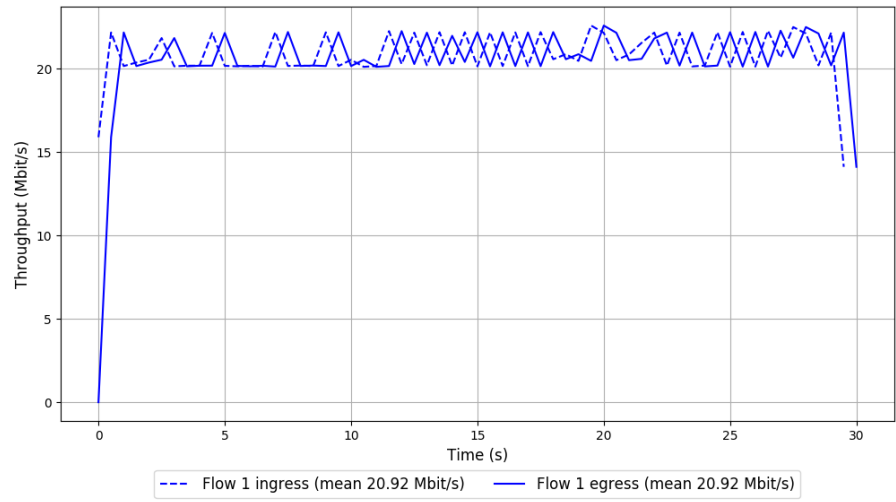
-- Flow 1:

Average throughput: 20.92 Mbit/s

95th percentile per-packet one-way delay: 1.329 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-04 06:28:12

End at: 2018-07-04 06:28:42

Local clock offset: 0.136 ms

Remote clock offset: 5.219 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.00%

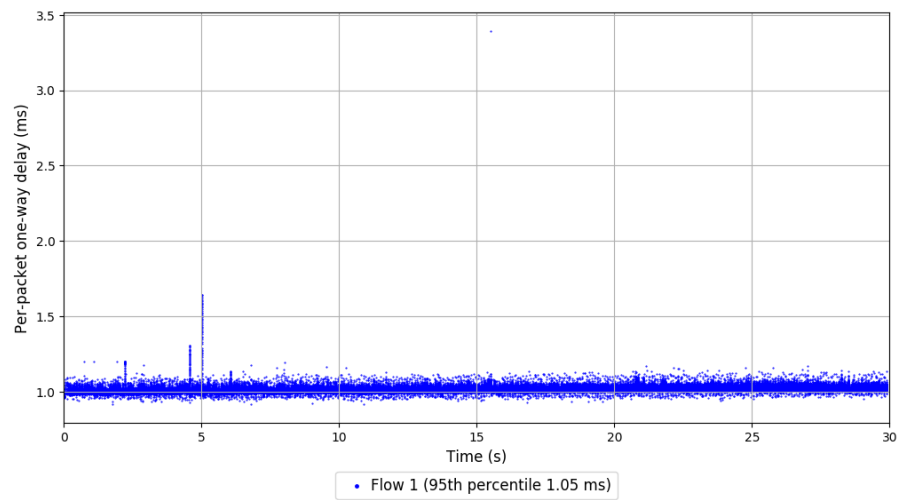
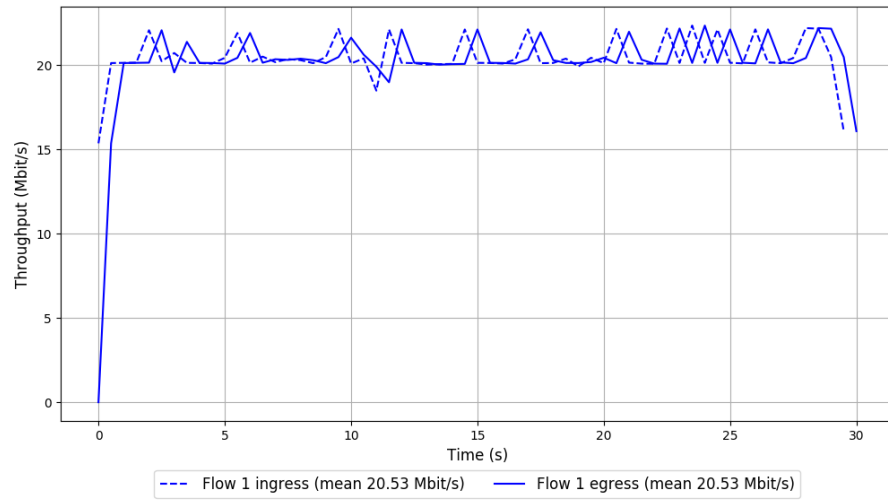
-- Flow 1:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-04 06:54:12

End at: 2018-07-04 06:54:42

Local clock offset: -3.17 ms

Remote clock offset: -1.08 ms

Below is generated by plot.py at 2018-07-04 09:00:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.00%

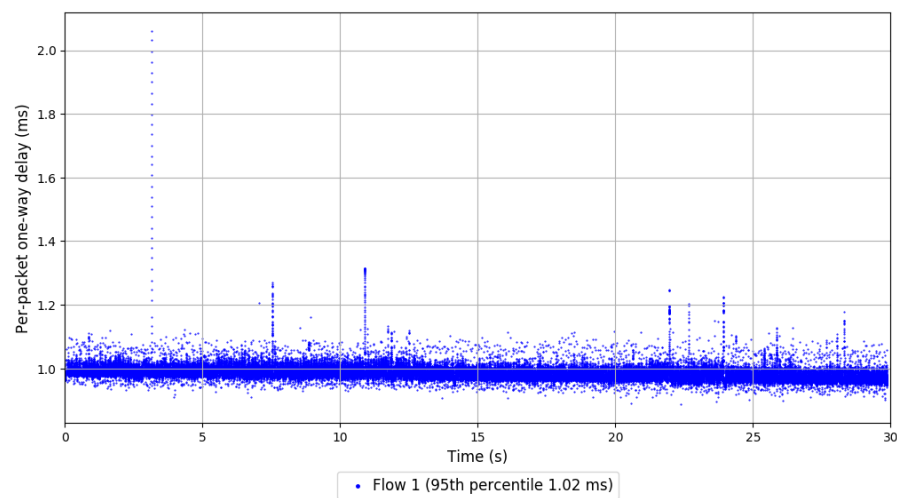
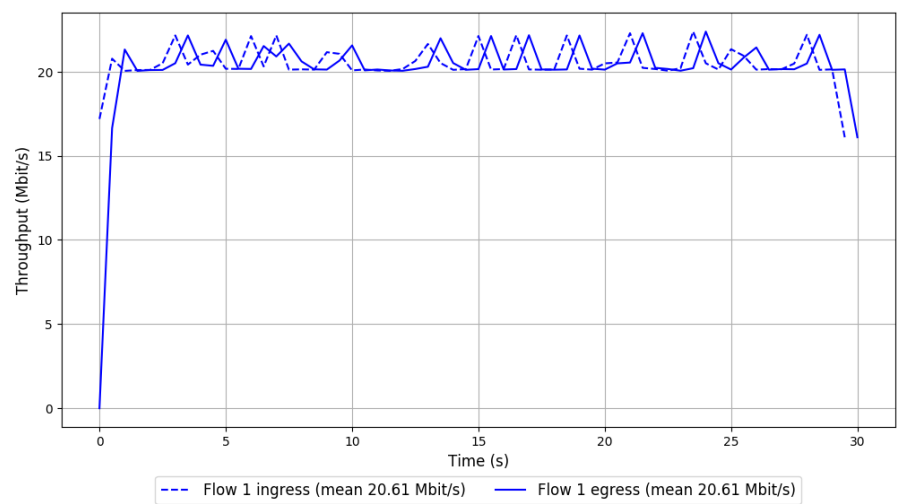
-- Flow 1:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 1.023 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

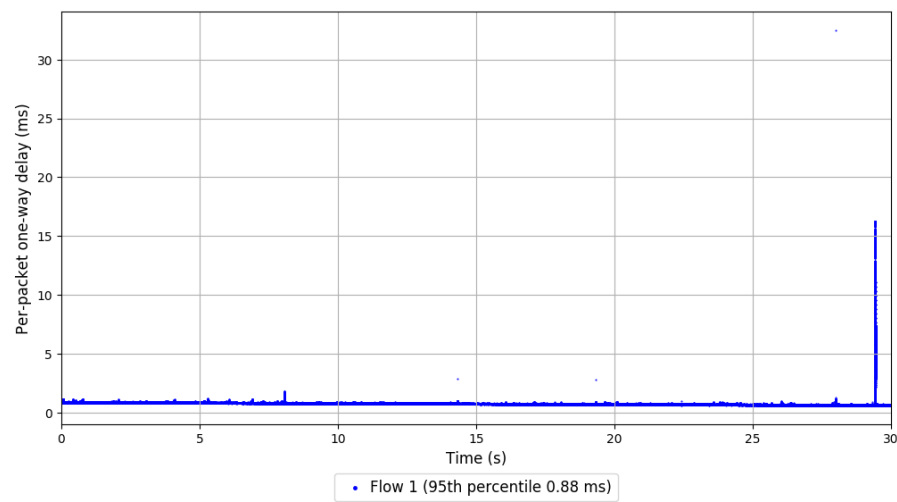
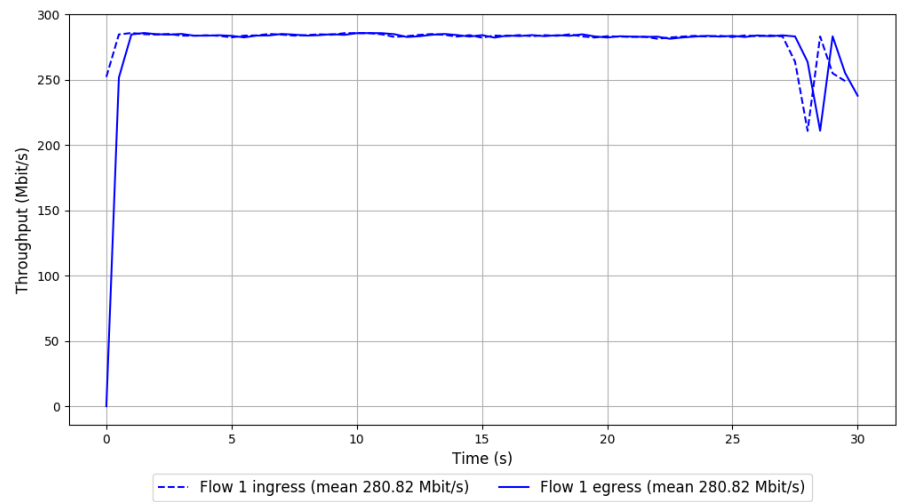


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-04 03:11:32
End at: 2018-07-04 03:12:02
Local clock offset: -1.264 ms
Remote clock offset: 3.013 ms

# Below is generated by plot.py at 2018-07-04 09:02:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 280.82 Mbit/s
95th percentile per-packet one-way delay: 0.881 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 280.82 Mbit/s
95th percentile per-packet one-way delay: 0.881 ms
Loss rate: 0.07%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-04 03:37:23

End at: 2018-07-04 03:37:53

Local clock offset: 0.507 ms

Remote clock offset: 0.64 ms

Below is generated by plot.py at 2018-07-04 09:02:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.58 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.07%

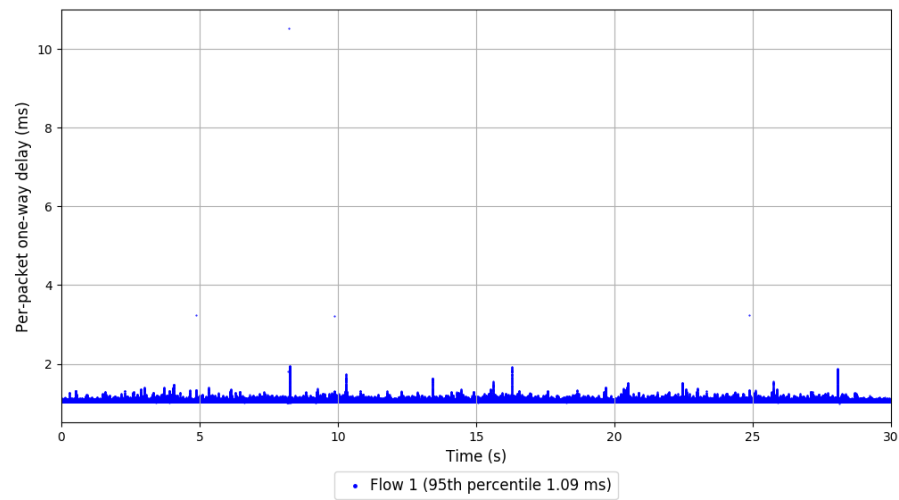
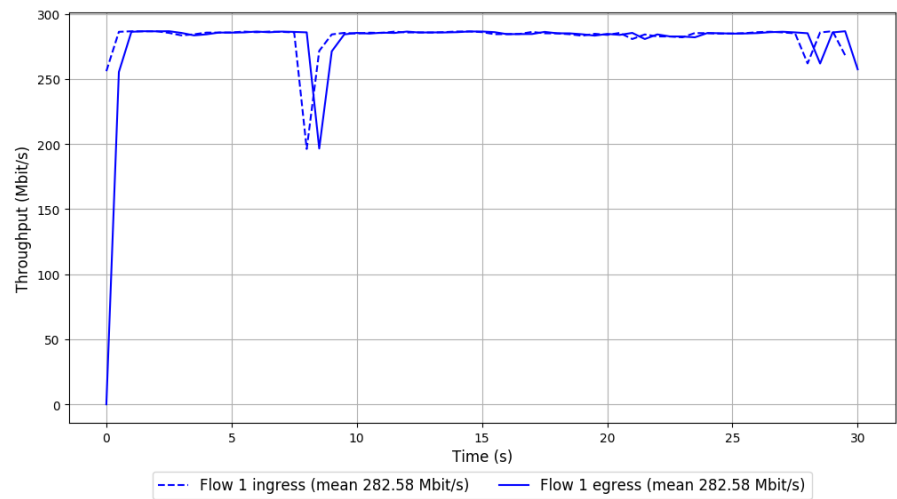
-- Flow 1:

Average throughput: 282.58 Mbit/s

95th percentile per-packet one-way delay: 1.093 ms

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-04 04:03:21

End at: 2018-07-04 04:03:51

Local clock offset: 0.618 ms

Remote clock offset: 3.995 ms

Below is generated by plot.py at 2018-07-04 09:02:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.70 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.07%

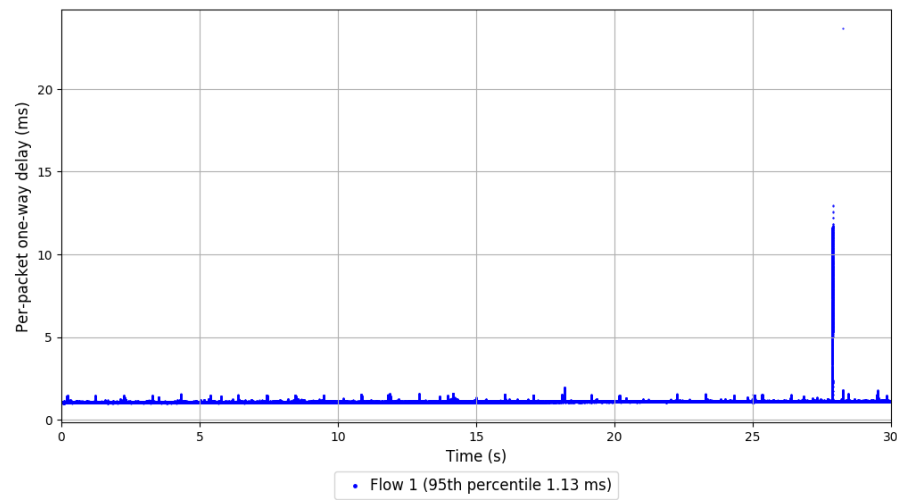
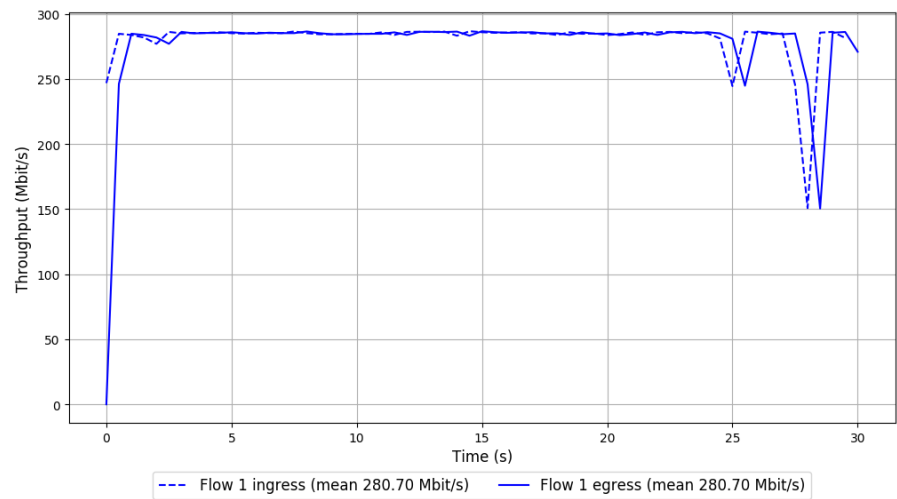
-- Flow 1:

Average throughput: 280.70 Mbit/s

95th percentile per-packet one-way delay: 1.127 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-04 04:29:23

End at: 2018-07-04 04:29:53

Local clock offset: 0.04 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-07-04 09:02:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.04 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.06%

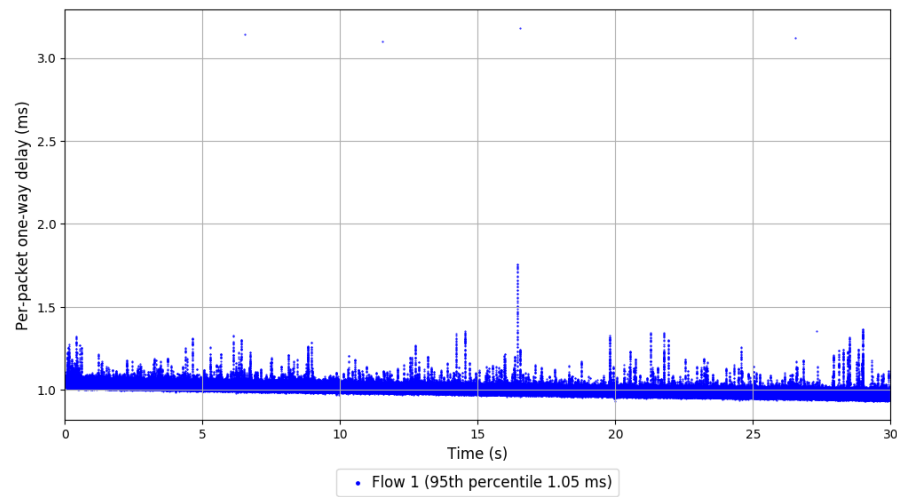
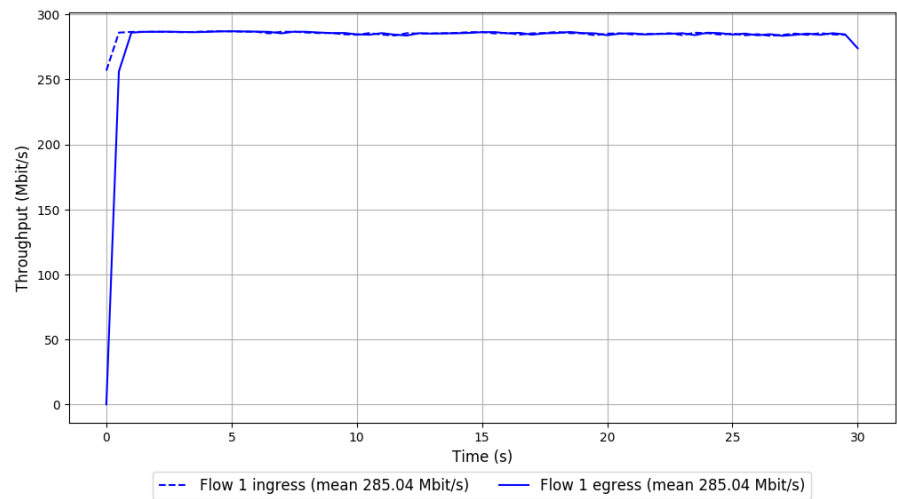
-- Flow 1:

Average throughput: 285.04 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-04 04:55:19

End at: 2018-07-04 04:55:49

Local clock offset: 4.241 ms

Remote clock offset: -0.981 ms

Below is generated by plot.py at 2018-07-04 09:05:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.40 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.07%

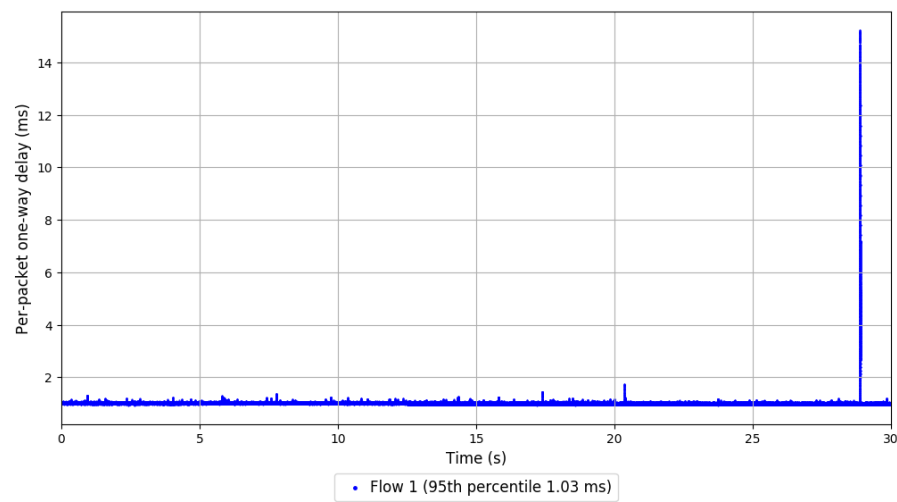
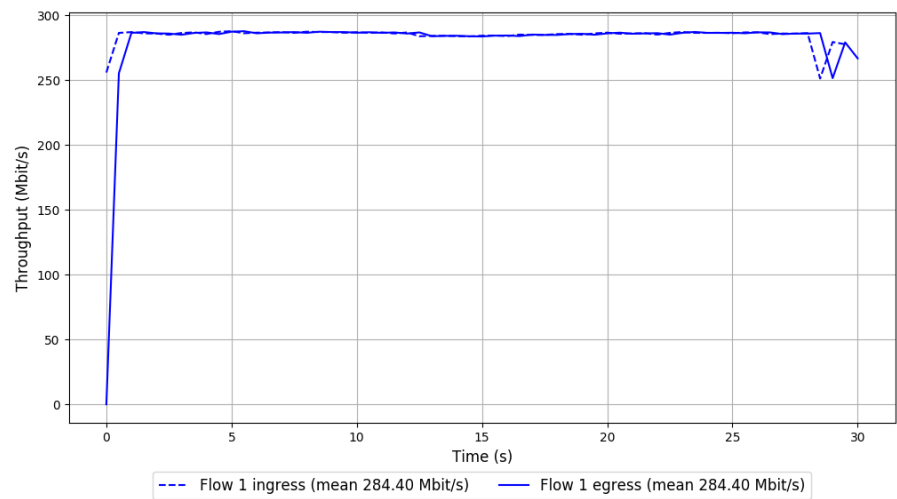
-- Flow 1:

Average throughput: 284.40 Mbit/s

95th percentile per-packet one-way delay: 1.032 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-04 05:21:14

End at: 2018-07-04 05:21:44

Local clock offset: 1.04 ms

Remote clock offset: -1.045 ms

Below is generated by plot.py at 2018-07-04 09:05:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.59 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.07%

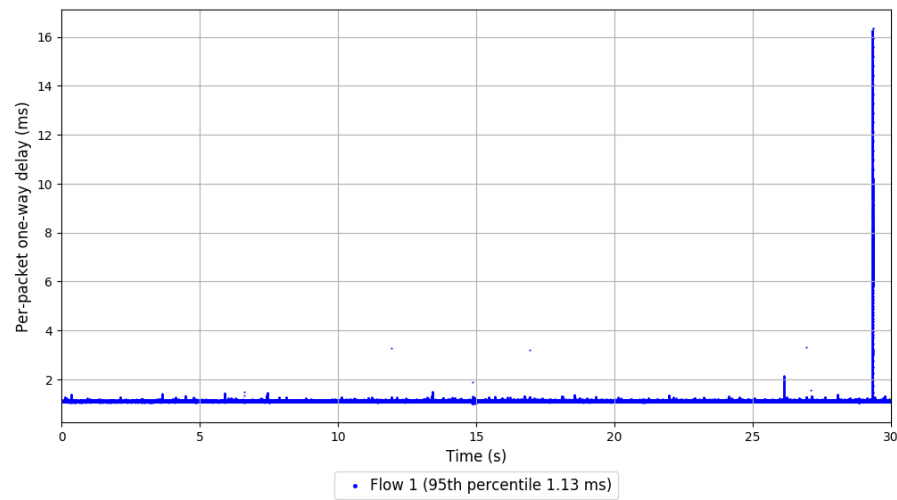
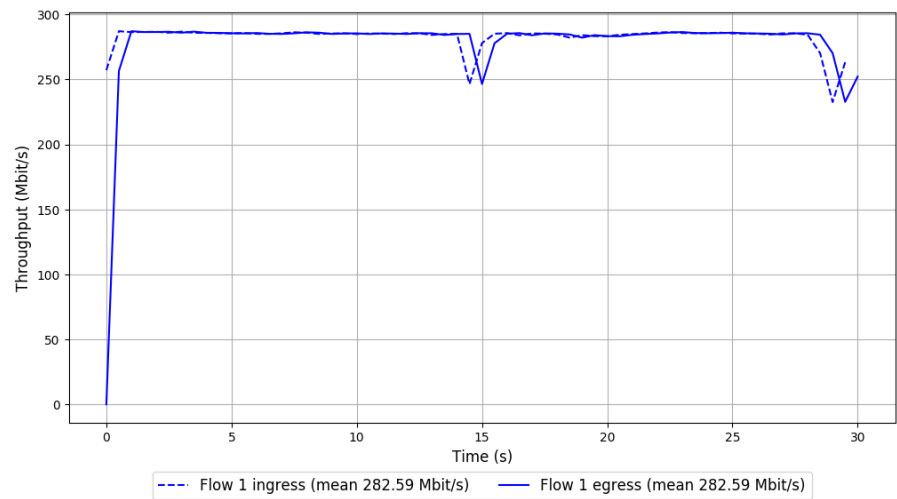
-- Flow 1:

Average throughput: 282.59 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.07%

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

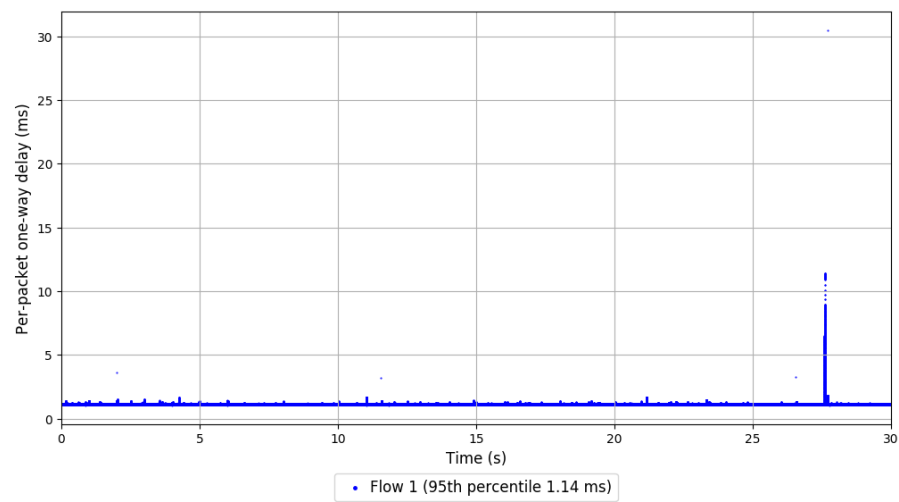
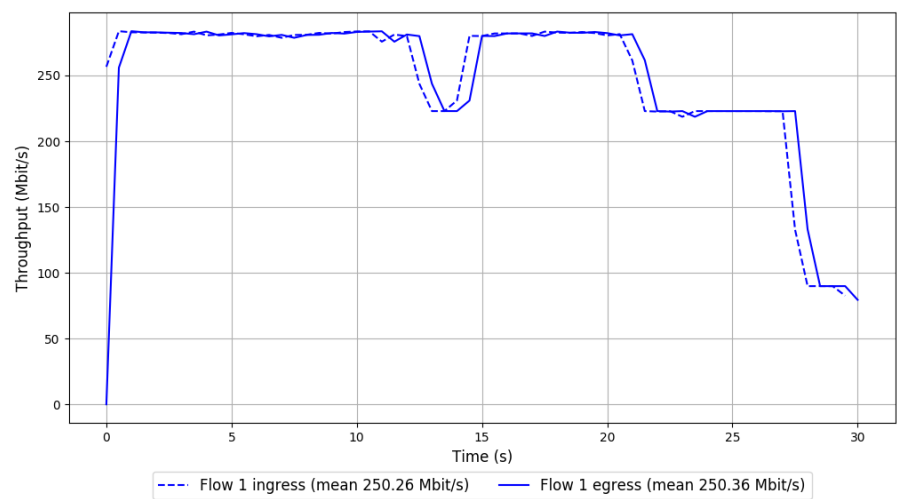


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-04 05:47:08
End at: 2018-07-04 05:47:38
Local clock offset: -0.159 ms
Remote clock offset: -0.349 ms

Below is generated by plot.py at 2018-07-04 09:05:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 250.36 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 250.36 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.02%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-04 06:13:00

End at: 2018-07-04 06:13:30

Local clock offset: -0.071 ms

Remote clock offset: 3.833 ms

Below is generated by plot.py at 2018-07-04 09:06:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.87 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.07%

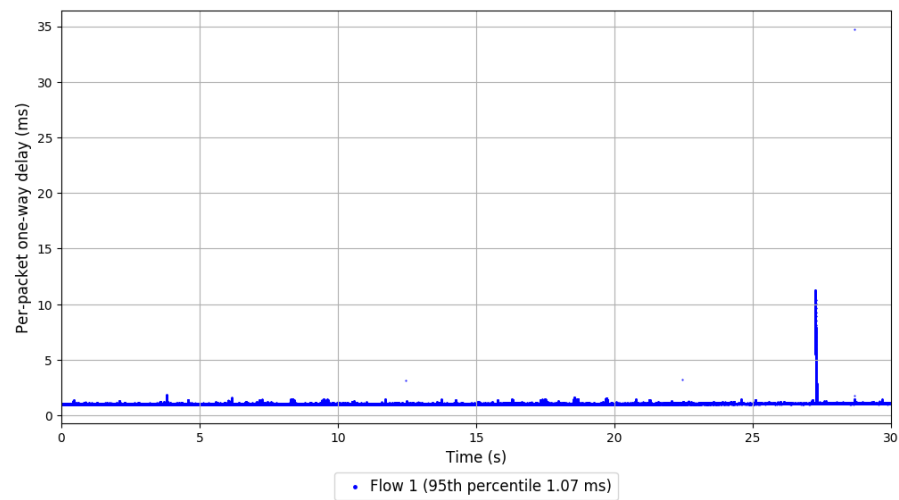
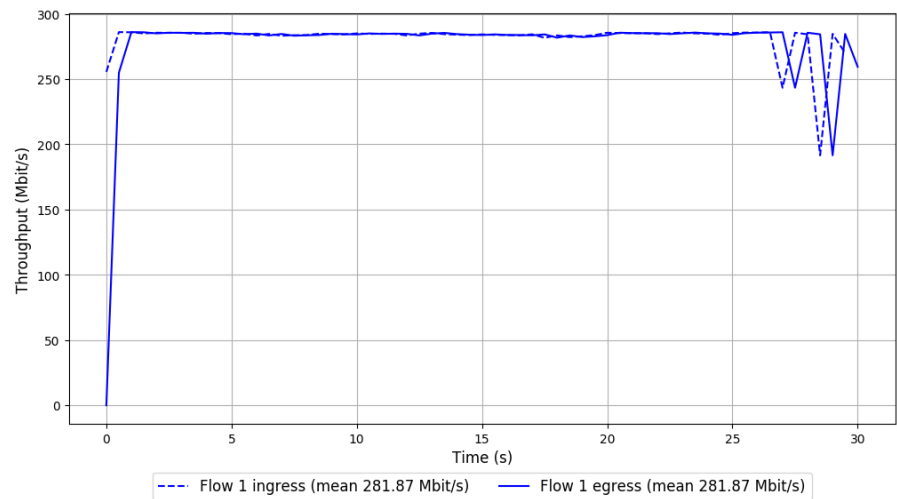
-- Flow 1:

Average throughput: 281.87 Mbit/s

95th percentile per-packet one-way delay: 1.071 ms

Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-04 06:38:59

End at: 2018-07-04 06:39:29

Local clock offset: -1.333 ms

Remote clock offset: 1.873 ms

Below is generated by plot.py at 2018-07-04 09:08:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.70 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.06%

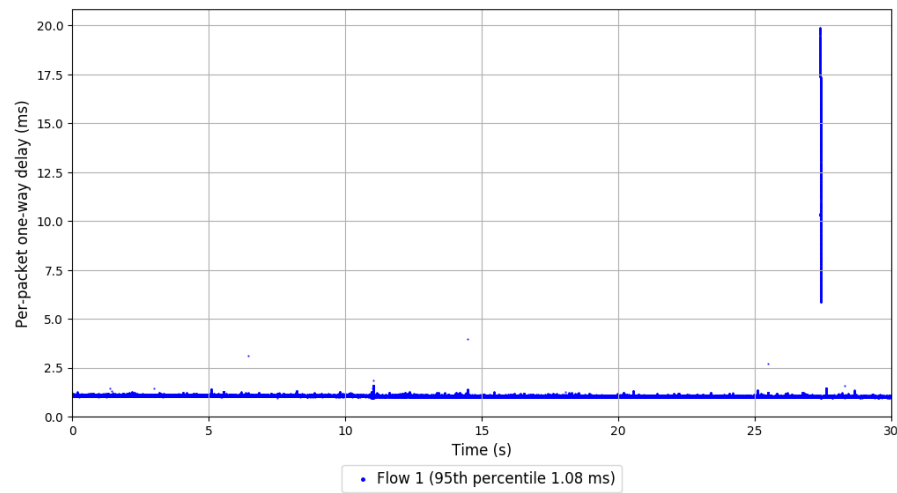
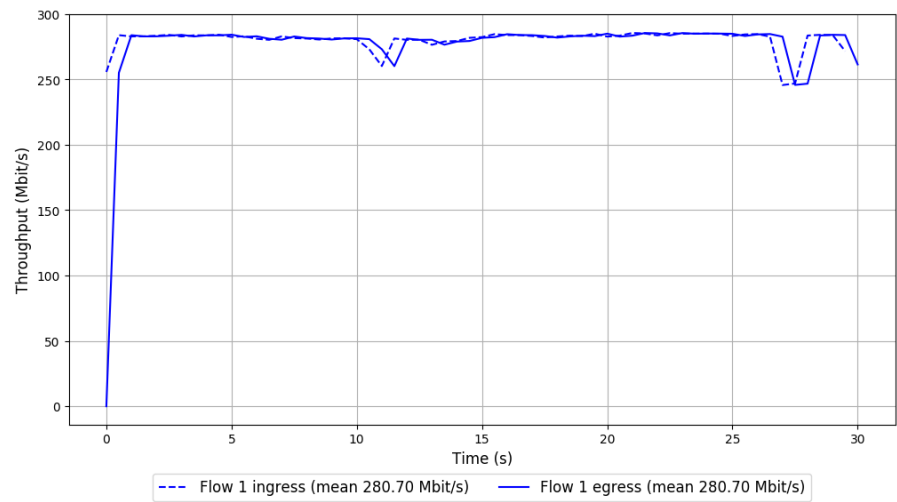
-- Flow 1:

Average throughput: 280.70 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.06%

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

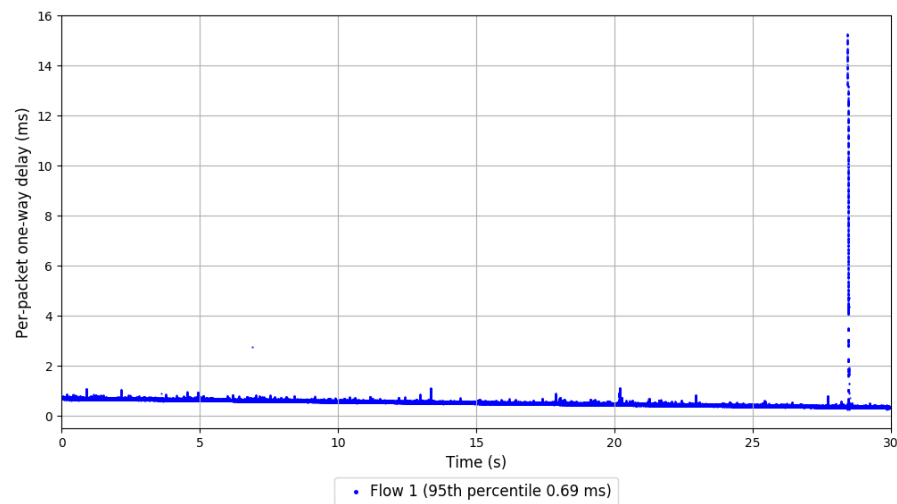
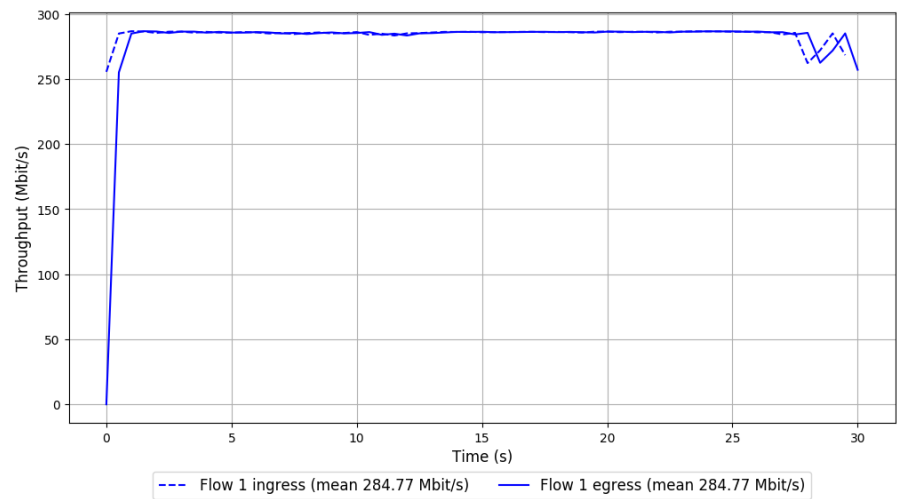


Run 10: Statistics of TaoVA-100x

Start at: 2018-07-04 07:04:57
End at: 2018-07-04 07:05:27
Local clock offset: -2.381 ms
Remote clock offset: -2.237 ms

Below is generated by plot.py at 2018-07-04 09:08:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 284.77 Mbit/s
95th percentile per-packet one-way delay: 0.688 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 284.77 Mbit/s
95th percentile per-packet one-way delay: 0.688 ms
Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-04 02:54:56

End at: 2018-07-04 02:55:26

Local clock offset: -3.694 ms

Remote clock offset: 4.128 ms

Below is generated by plot.py at 2018-07-04 09:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.51 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.01%

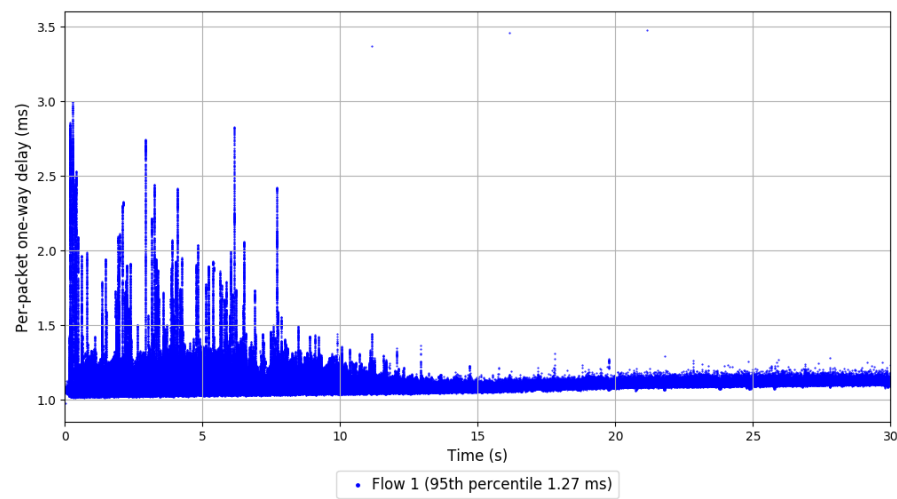
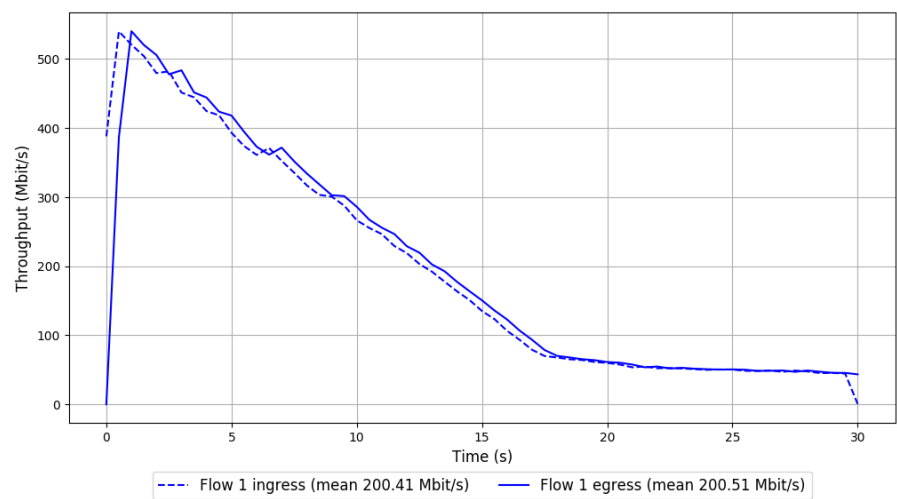
-- Flow 1:

Average throughput: 200.51 Mbit/s

95th percentile per-packet one-way delay: 1.267 ms

Loss rate: 0.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-04 03:20:50

End at: 2018-07-04 03:21:20

Local clock offset: -0.078 ms

Remote clock offset: 1.167 ms

Below is generated by plot.py at 2018-07-04 09:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 102.29 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.03%

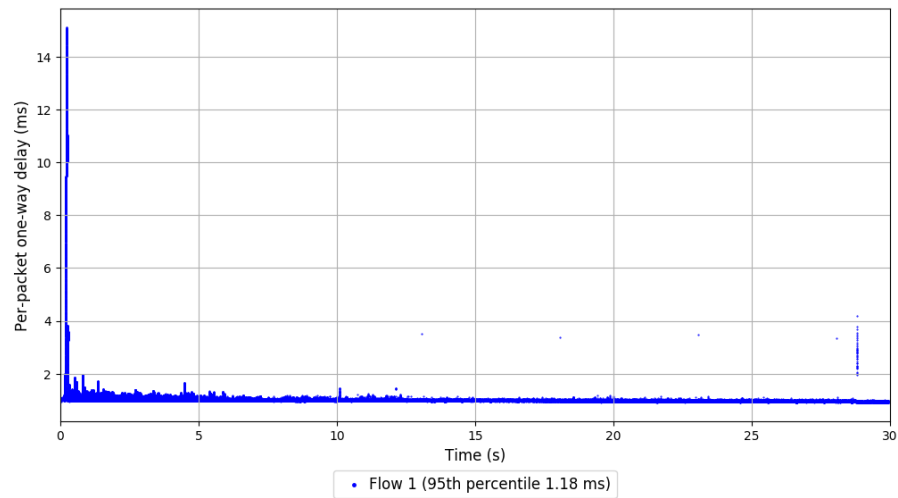
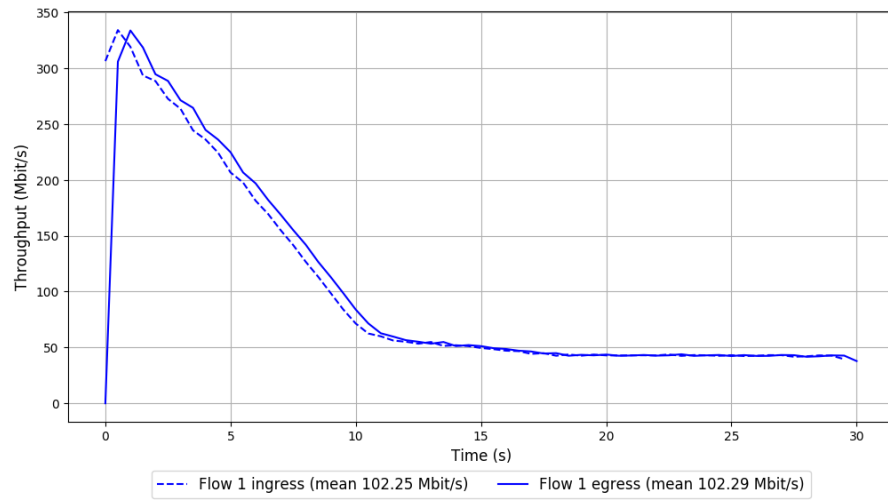
-- Flow 1:

Average throughput: 102.29 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-04 03:46:42

End at: 2018-07-04 03:47:12

Local clock offset: 0.54 ms

Remote clock offset: 2.129 ms

Below is generated by plot.py at 2018-07-04 09:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.90 Mbit/s

95th percentile per-packet one-way delay: 1.288 ms

Loss rate: 0.08%

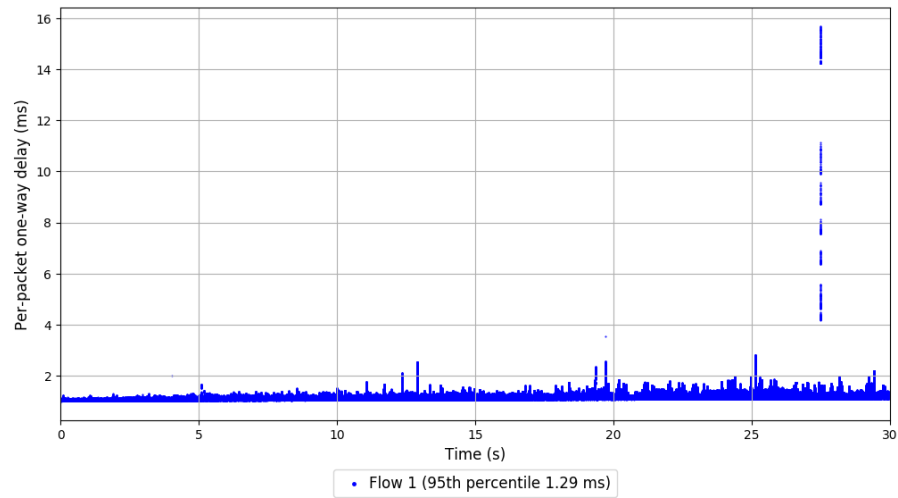
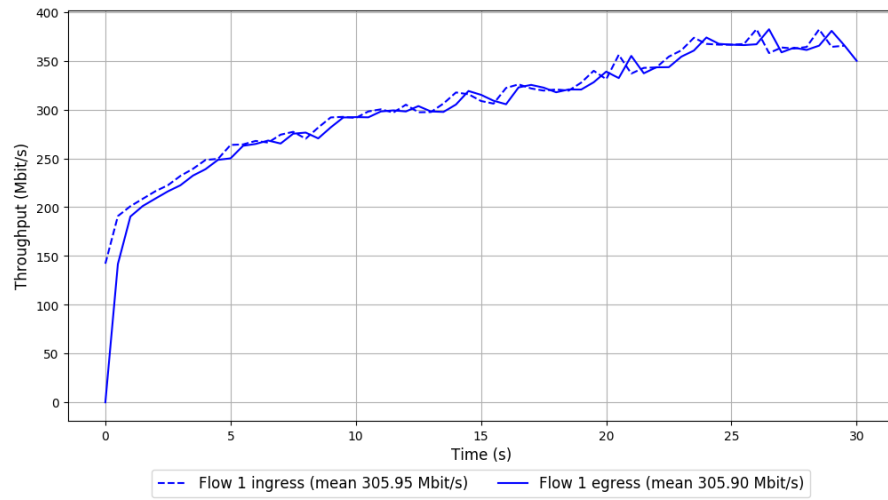
-- Flow 1:

Average throughput: 305.90 Mbit/s

95th percentile per-packet one-way delay: 1.288 ms

Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-04 04:12:40

End at: 2018-07-04 04:13:10

Local clock offset: 0.205 ms

Remote clock offset: 4.631 ms

Below is generated by plot.py at 2018-07-04 09:08:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.91 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.08%

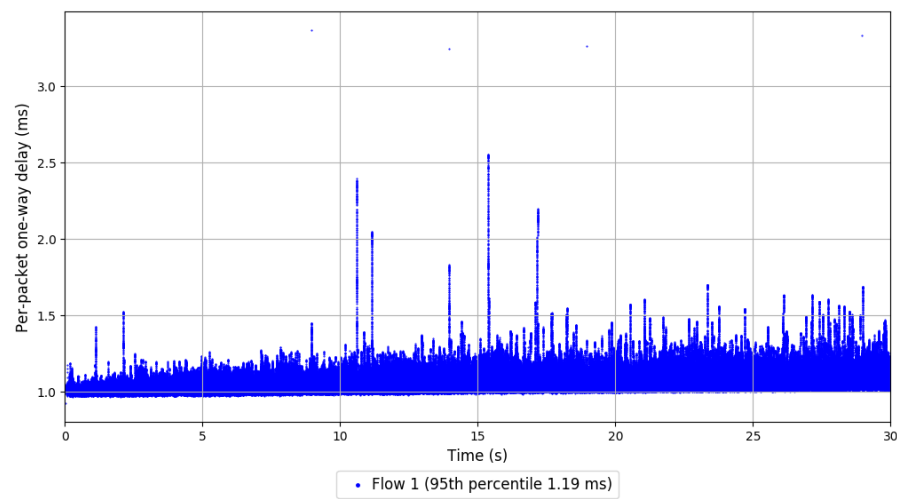
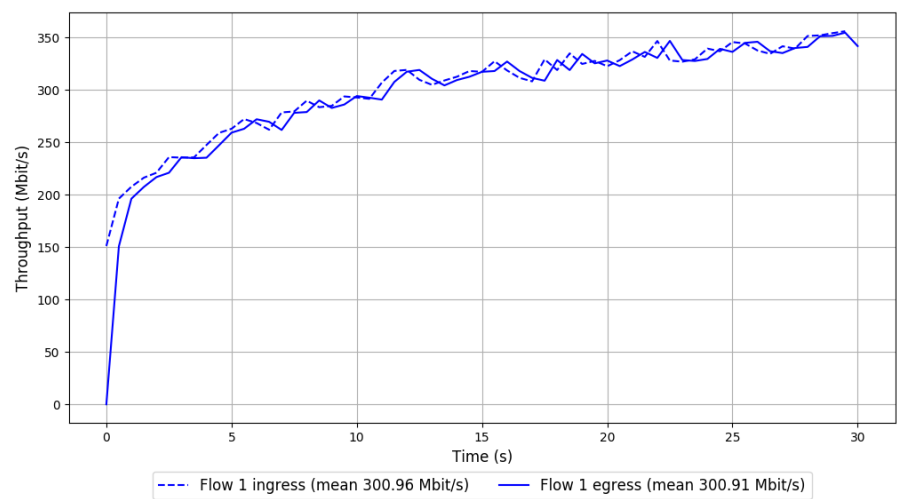
-- Flow 1:

Average throughput: 300.91 Mbit/s

95th percentile per-packet one-way delay: 1.188 ms

Loss rate: 0.08%

Run 4: Report of TCP Vegas — Data Link

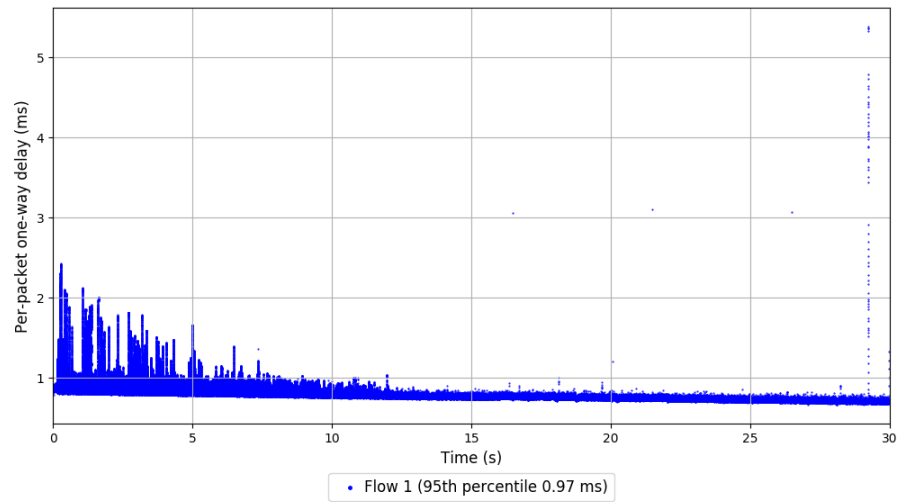
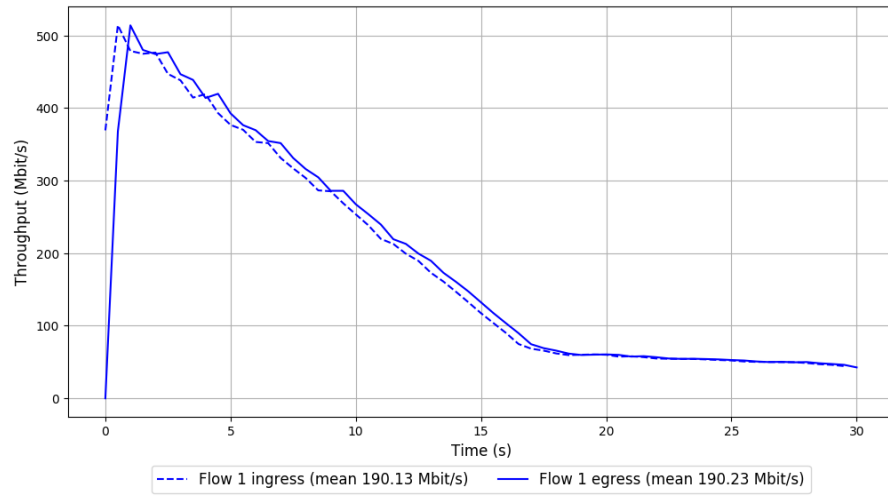


Run 5: Statistics of TCP Vegas

Start at: 2018-07-04 04:38:41
End at: 2018-07-04 04:39:11
Local clock offset: 1.761 ms
Remote clock offset: -0.701 ms

Below is generated by plot.py at 2018-07-04 09:08:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 190.23 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 190.23 Mbit/s
95th percentile per-packet one-way delay: 0.974 ms
Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link

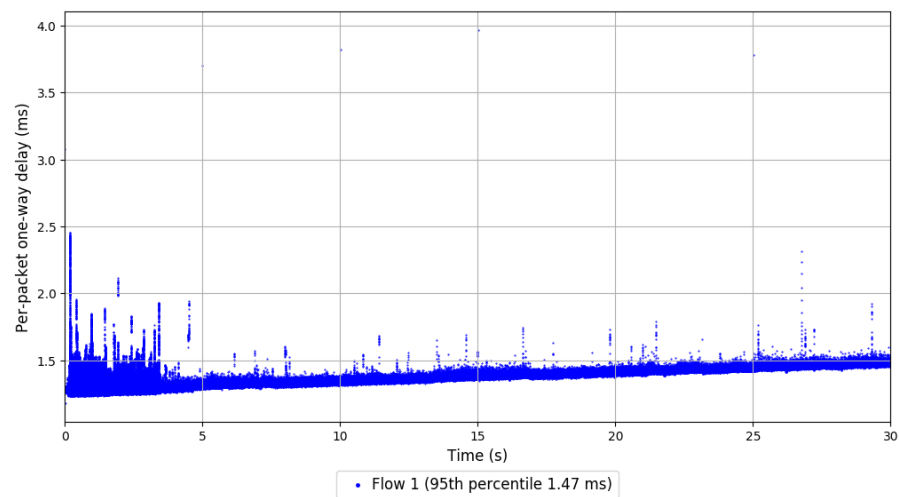
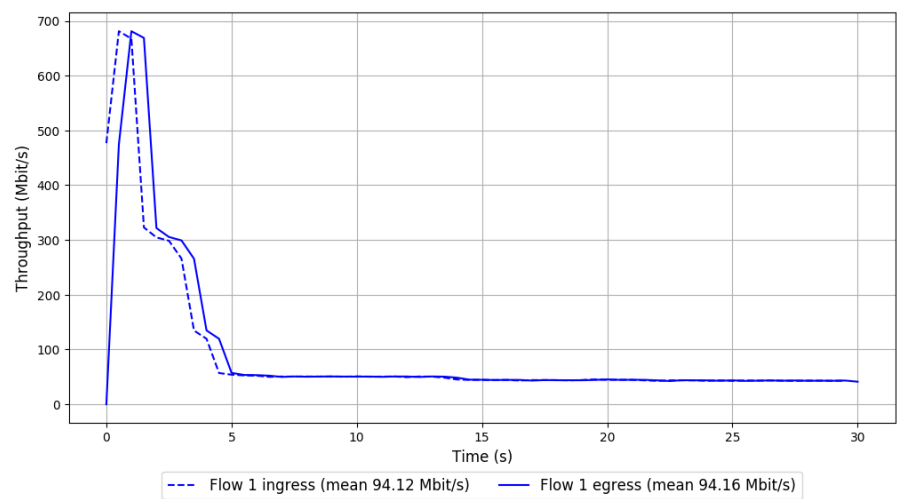


Run 6: Statistics of TCP Vegas

Start at: 2018-07-04 05:04:38
End at: 2018-07-04 05:05:08
Local clock offset: 4.205 ms
Remote clock offset: -0.749 ms

Below is generated by plot.py at 2018-07-04 09:08:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 1.470 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 94.16 Mbit/s
95th percentile per-packet one-way delay: 1.470 ms
Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link

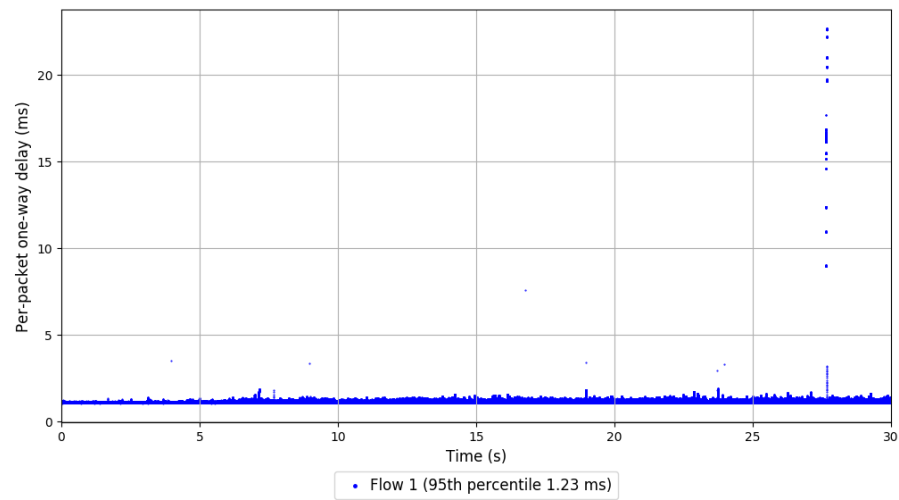
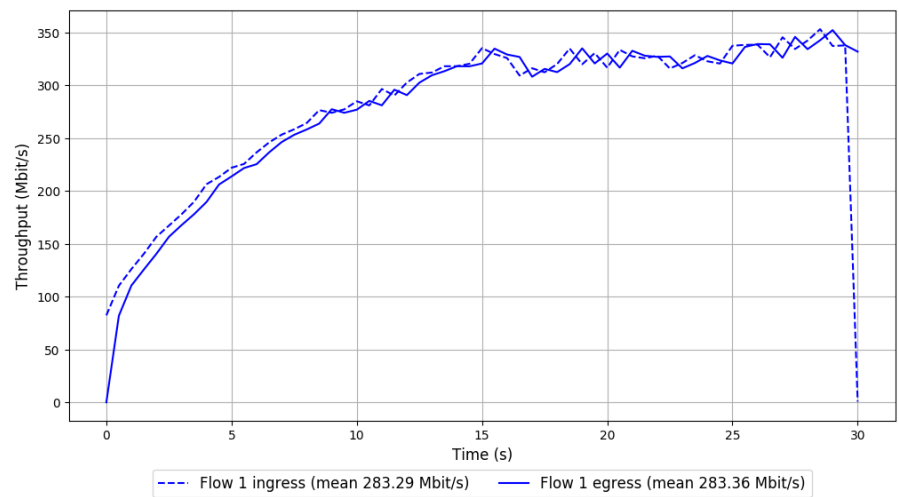


Run 7: Statistics of TCP Vegas

Start at: 2018-07-04 05:30:32
End at: 2018-07-04 05:31:02
Local clock offset: 0.692 ms
Remote clock offset: -0.537 ms

Below is generated by plot.py at 2018-07-04 09:09:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.36 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 283.36 Mbit/s
95th percentile per-packet one-way delay: 1.233 ms
Loss rate: 0.04%

Run 7: Report of TCP Vegas — Data Link

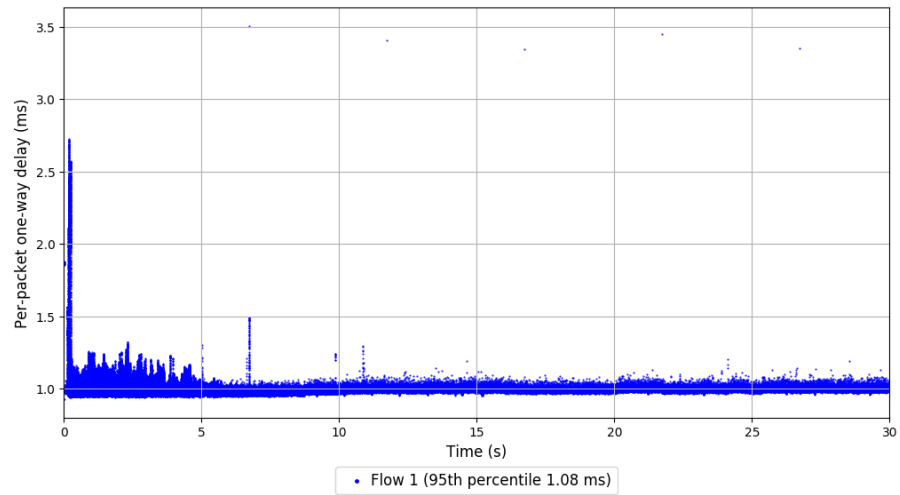
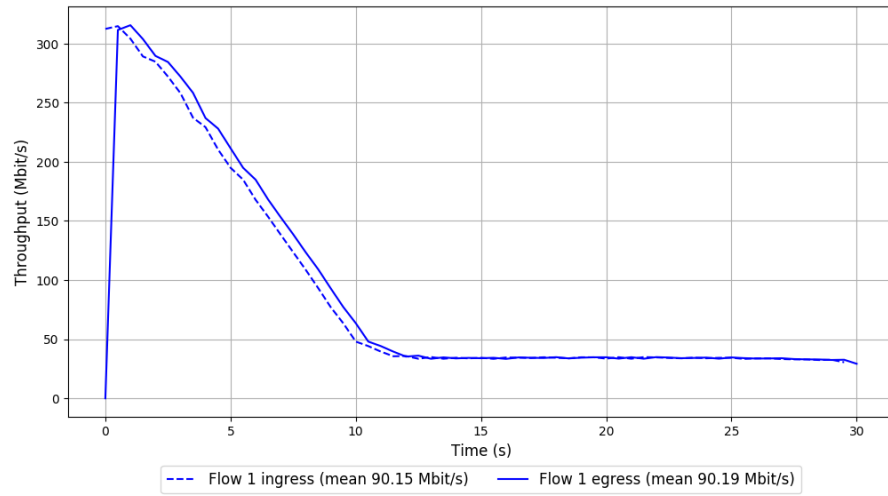


Run 8: Statistics of TCP Vegas

Start at: 2018-07-04 05:56:21
End at: 2018-07-04 05:56:51
Local clock offset: -0.48 ms
Remote clock offset: -0.325 ms

Below is generated by plot.py at 2018-07-04 09:09:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 90.19 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.02%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-04 06:22:18

End at: 2018-07-04 06:22:48

Local clock offset: 0.186 ms

Remote clock offset: 4.828 ms

Below is generated by plot.py at 2018-07-04 09:09:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.26 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.04%

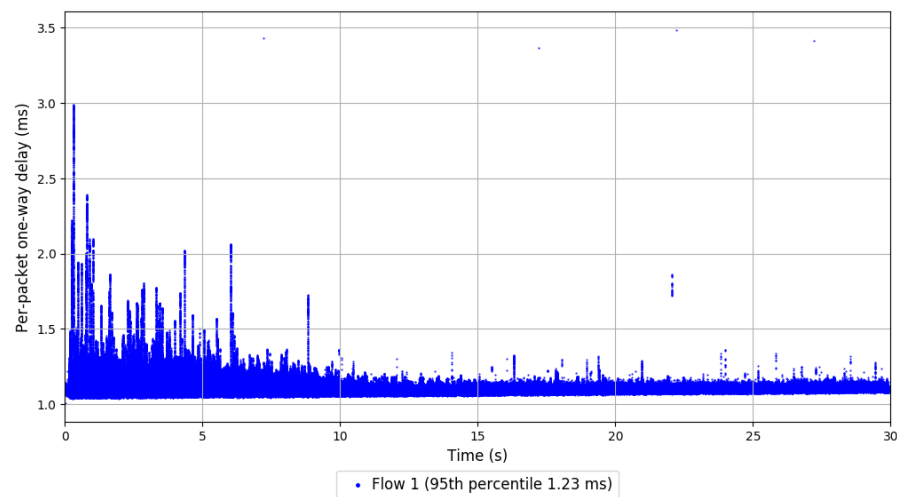
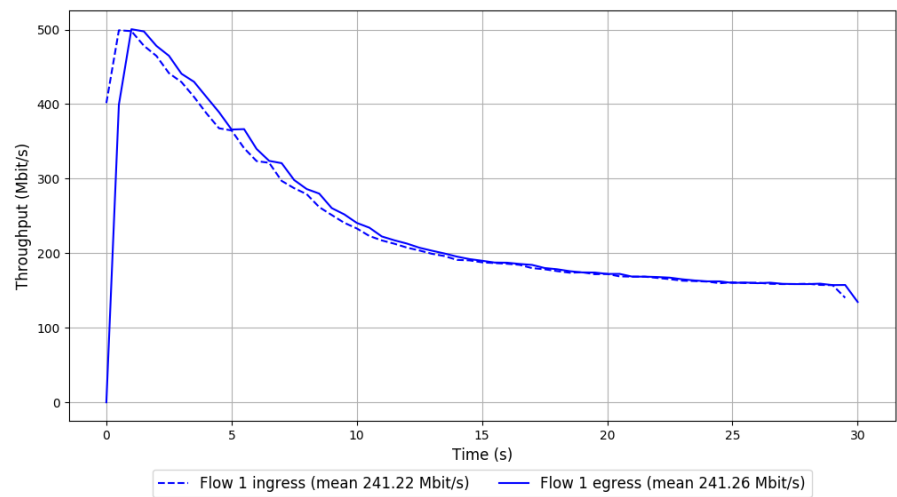
-- Flow 1:

Average throughput: 241.26 Mbit/s

95th percentile per-packet one-way delay: 1.231 ms

Loss rate: 0.04%

Run 9: Report of TCP Vegas — Data Link

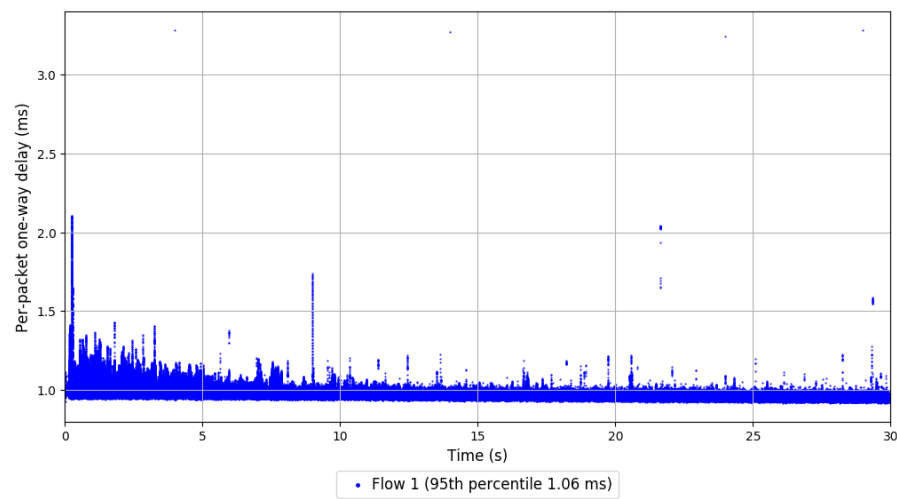
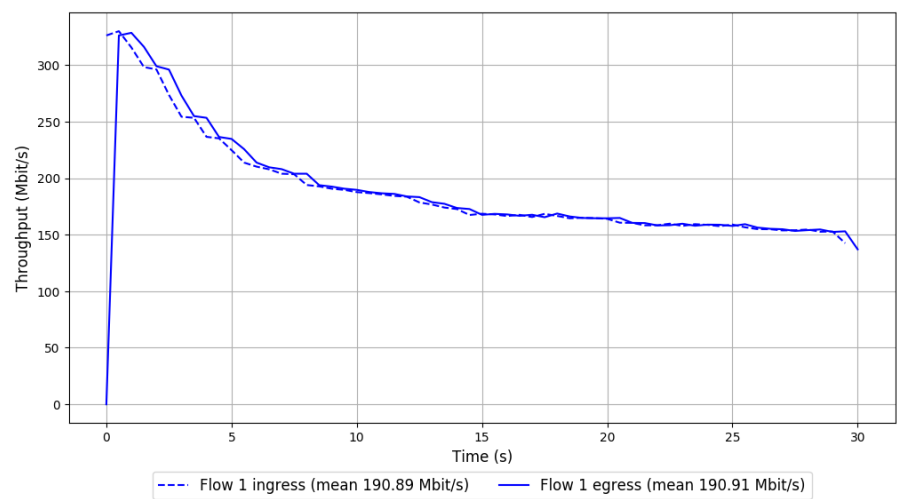


Run 10: Statistics of TCP Vegas

Start at: 2018-07-04 06:48:18
End at: 2018-07-04 06:48:48
Local clock offset: -2.779 ms
Remote clock offset: -0.341 ms

Below is generated by plot.py at 2018-07-04 09:09:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 190.91 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 190.91 Mbit/s
95th percentile per-packet one-way delay: 1.061 ms
Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-04 03:10:03

End at: 2018-07-04 03:10:33

Local clock offset: -1.558 ms

Remote clock offset: 3.619 ms

Below is generated by plot.py at 2018-07-04 09:10:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 261.27 Mbit/s

95th percentile per-packet one-way delay: 8.237 ms

Loss rate: 0.08%

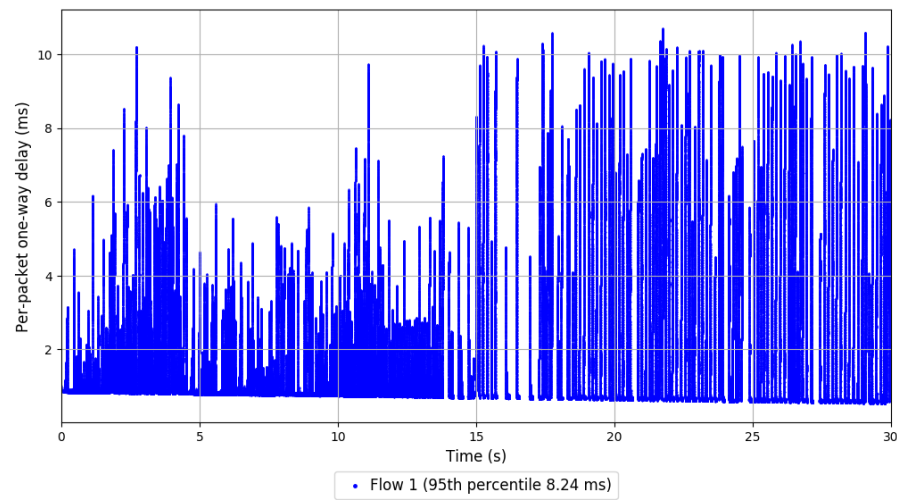
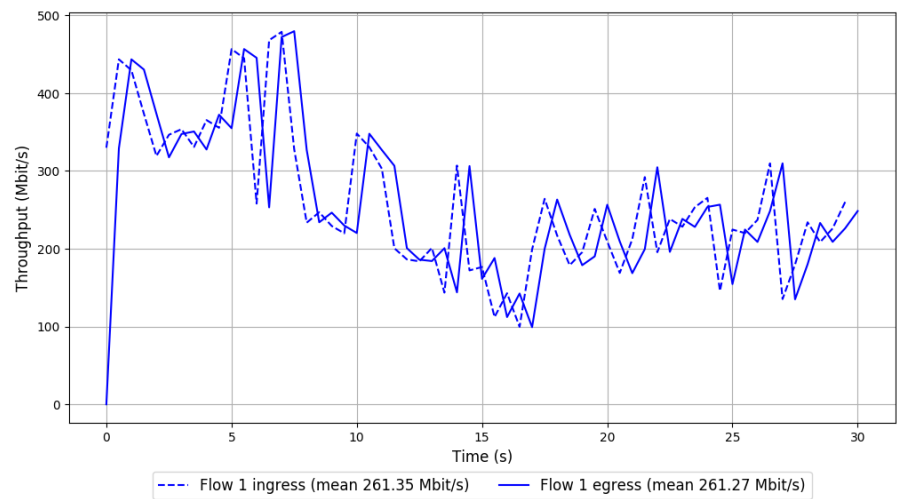
-- Flow 1:

Average throughput: 261.27 Mbit/s

95th percentile per-packet one-way delay: 8.237 ms

Loss rate: 0.08%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-04 03:35:55

End at: 2018-07-04 03:36:25

Local clock offset: 0.484 ms

Remote clock offset: 0.697 ms

Below is generated by plot.py at 2018-07-04 09:10:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.88 Mbit/s

95th percentile per-packet one-way delay: 4.199 ms

Loss rate: 0.14%

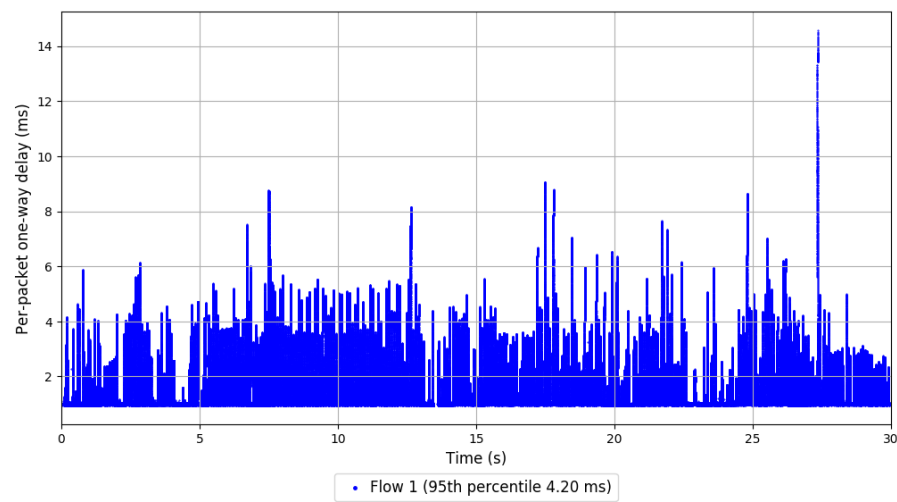
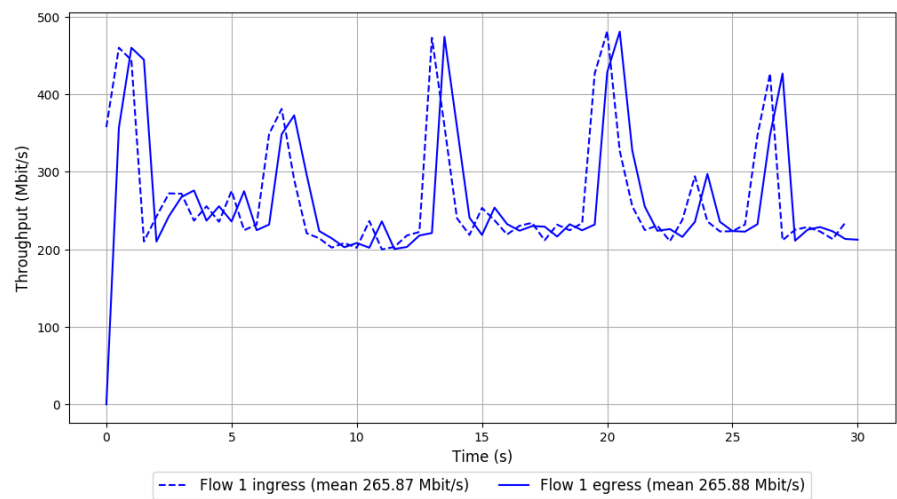
-- Flow 1:

Average throughput: 265.88 Mbit/s

95th percentile per-packet one-way delay: 4.199 ms

Loss rate: 0.14%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-04 04:01:50

End at: 2018-07-04 04:02:20

Local clock offset: 0.601 ms

Remote clock offset: 3.915 ms

Below is generated by plot.py at 2018-07-04 09:12:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.36 Mbit/s

95th percentile per-packet one-way delay: 7.247 ms

Loss rate: 0.08%

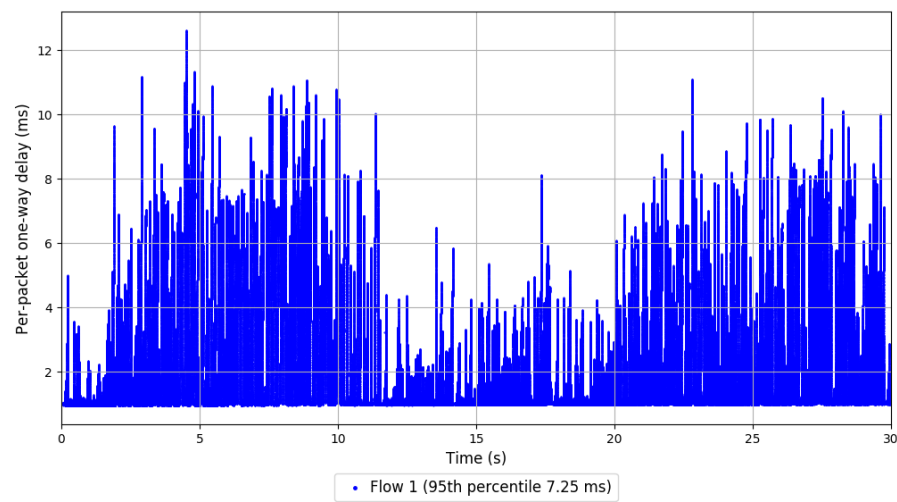
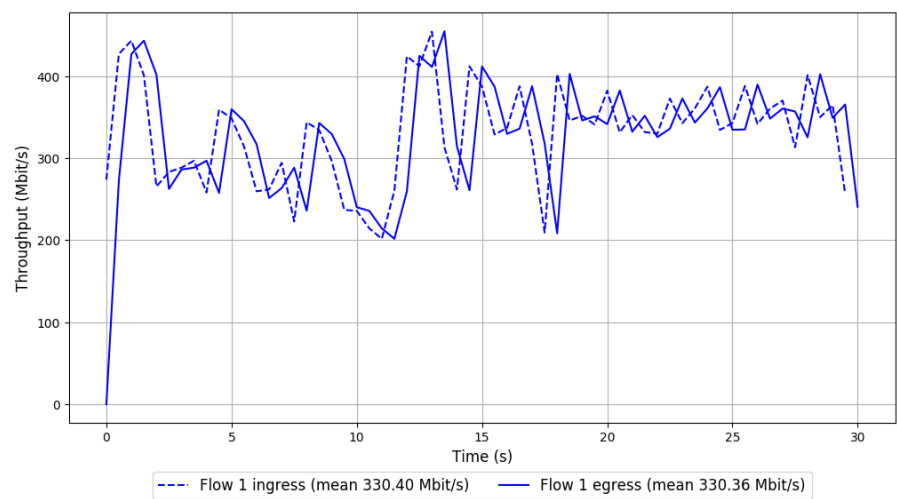
-- Flow 1:

Average throughput: 330.36 Mbit/s

95th percentile per-packet one-way delay: 7.247 ms

Loss rate: 0.08%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-04 04:27:51

End at: 2018-07-04 04:28:21

Local clock offset: 0.04 ms

Remote clock offset: 0.554 ms

Below is generated by plot.py at 2018-07-04 09:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.63 Mbit/s

95th percentile per-packet one-way delay: 6.916 ms

Loss rate: 0.00%

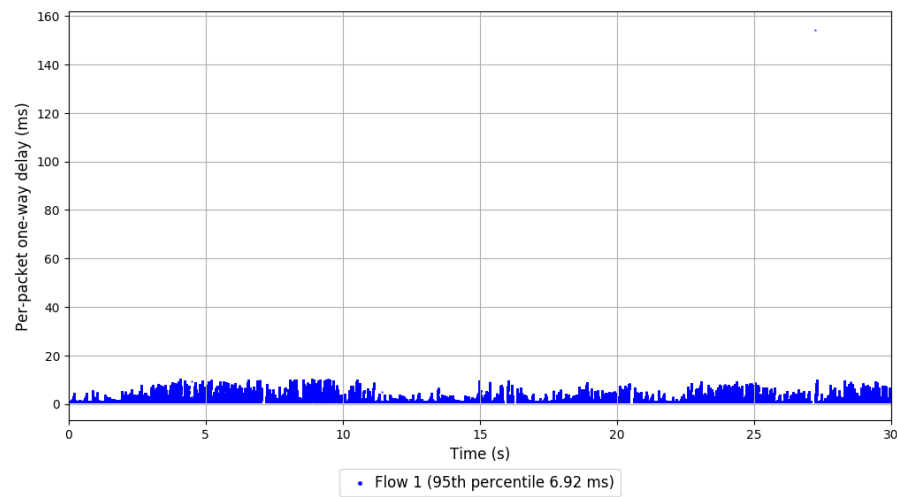
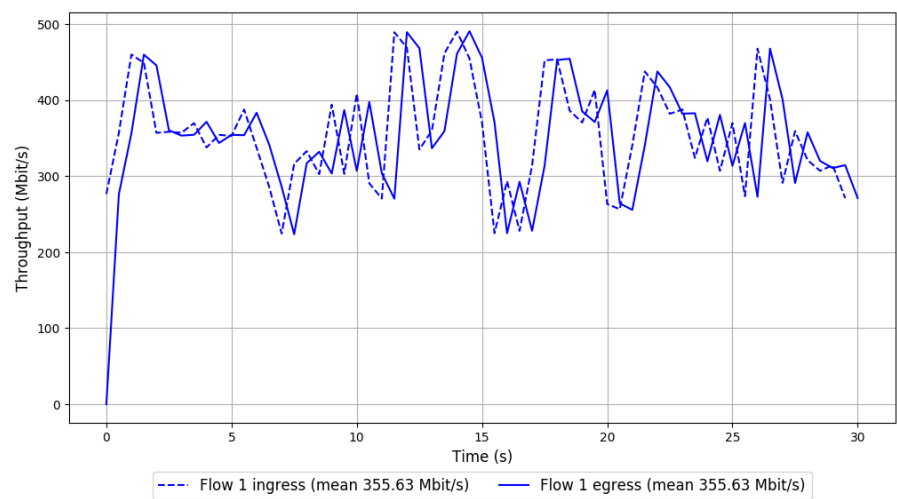
-- Flow 1:

Average throughput: 355.63 Mbit/s

95th percentile per-packet one-way delay: 6.916 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link

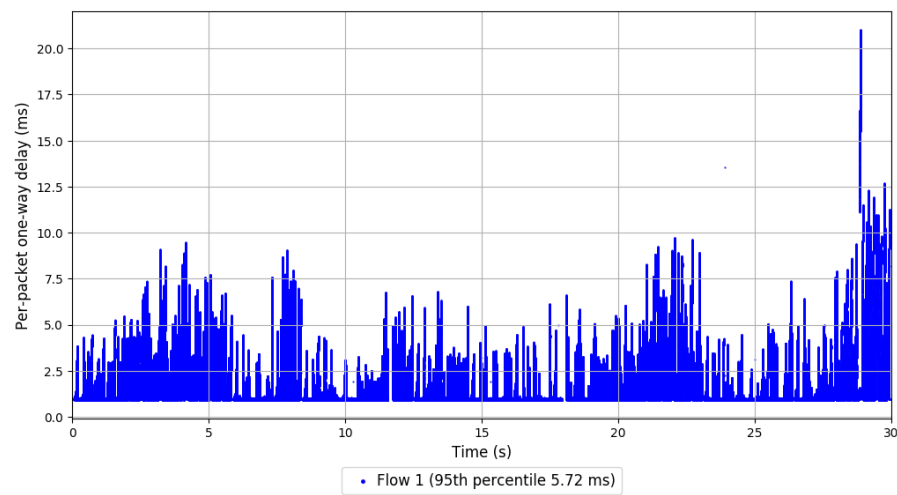
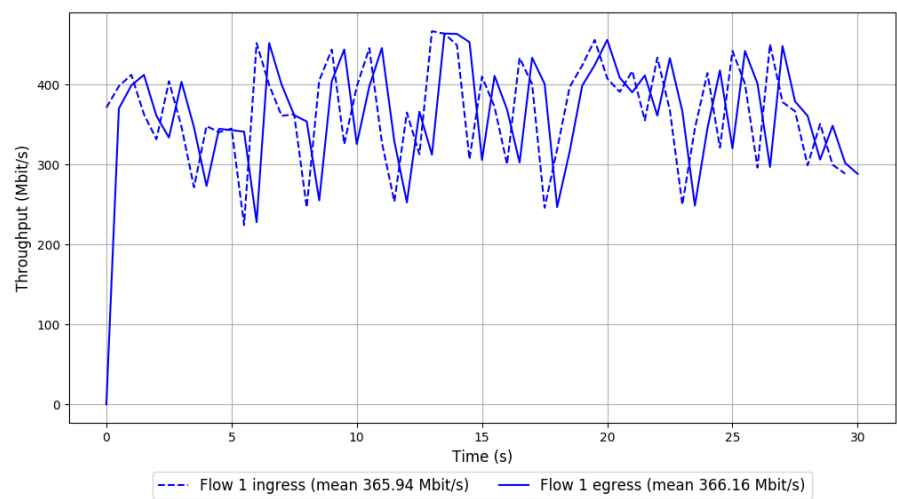


Run 5: Statistics of Verus

Start at: 2018-07-04 04:53:47
End at: 2018-07-04 04:54:17
Local clock offset: 4.097 ms
Remote clock offset: -1.021 ms

Below is generated by plot.py at 2018-07-04 09:12:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 366.16 Mbit/s
95th percentile per-packet one-way delay: 5.725 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 366.16 Mbit/s
95th percentile per-packet one-way delay: 5.725 ms
Loss rate: 0.00%

Run 5: Report of Verus — Data Link

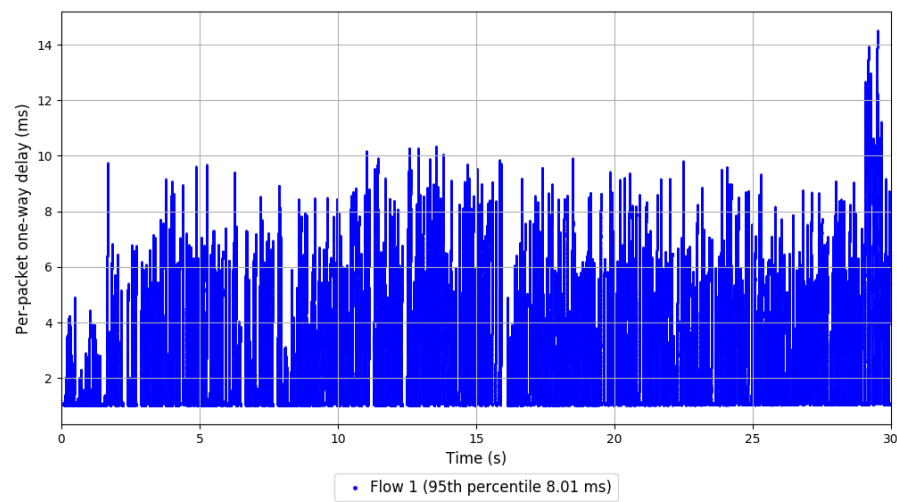
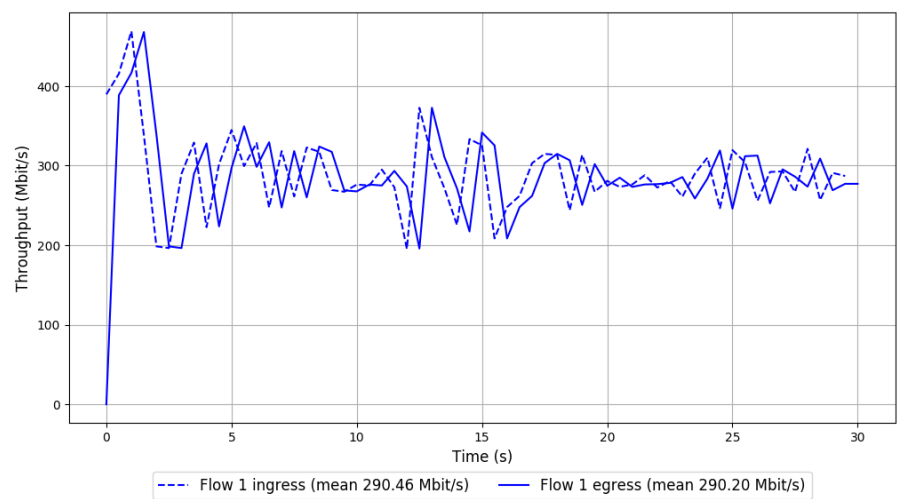


Run 6: Statistics of Verus

Start at: 2018-07-04 05:19:44
End at: 2018-07-04 05:20:14
Local clock offset: 1.034 ms
Remote clock offset: -1.028 ms

Below is generated by plot.py at 2018-07-04 09:12:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 290.20 Mbit/s
95th percentile per-packet one-way delay: 8.013 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 290.20 Mbit/s
95th percentile per-packet one-way delay: 8.013 ms
Loss rate: 0.14%

Run 6: Report of Verus — Data Link

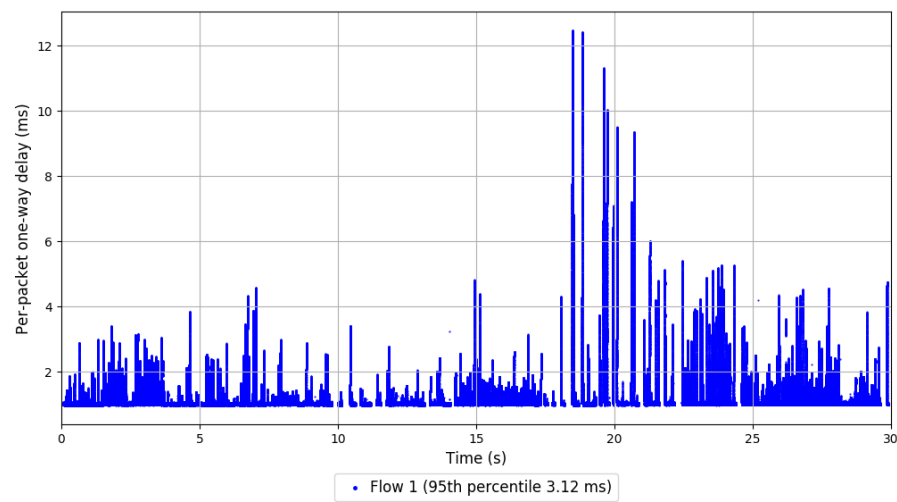
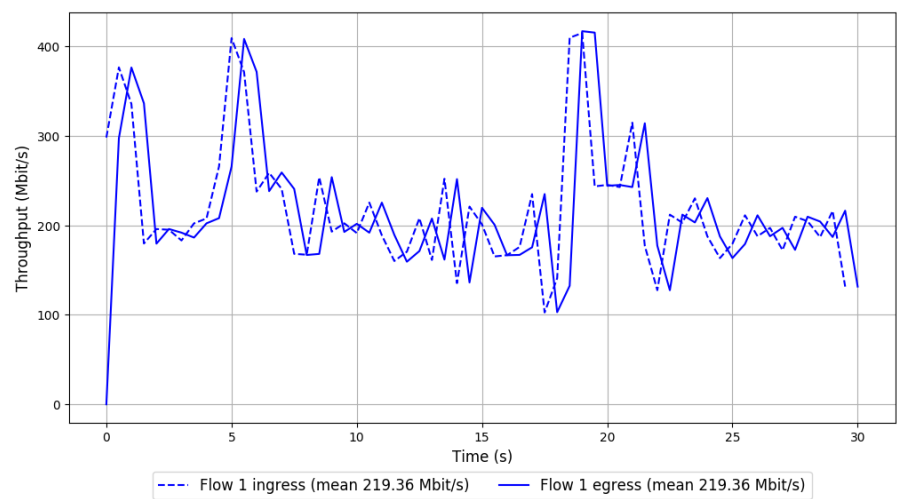


Run 7: Statistics of Verus

Start at: 2018-07-04 05:45:41
End at: 2018-07-04 05:46:11
Local clock offset: -0.115 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-07-04 09:12:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.36 Mbit/s
95th percentile per-packet one-way delay: 3.119 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.36 Mbit/s
95th percentile per-packet one-way delay: 3.119 ms
Loss rate: 0.00%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-04 06:11:26

End at: 2018-07-04 06:11:56

Local clock offset: -0.04 ms

Remote clock offset: 3.7 ms

Below is generated by plot.py at 2018-07-04 09:14:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.64 Mbit/s

95th percentile per-packet one-way delay: 5.235 ms

Loss rate: 0.01%

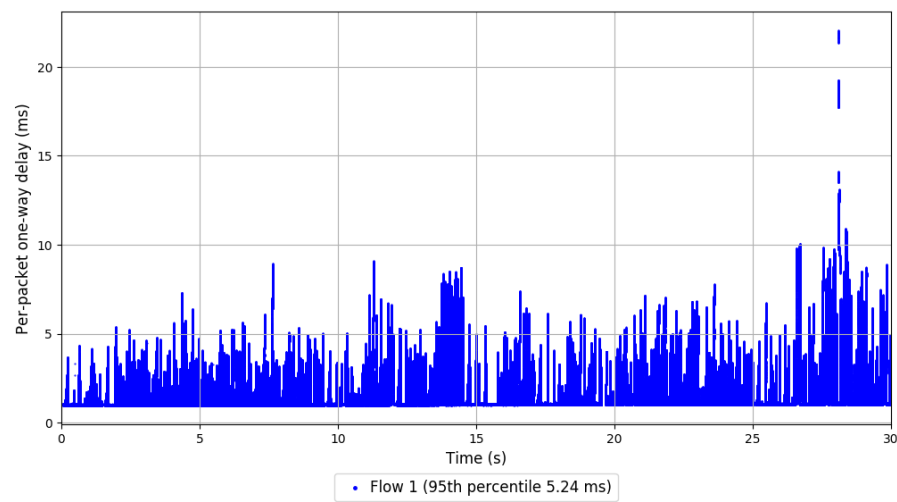
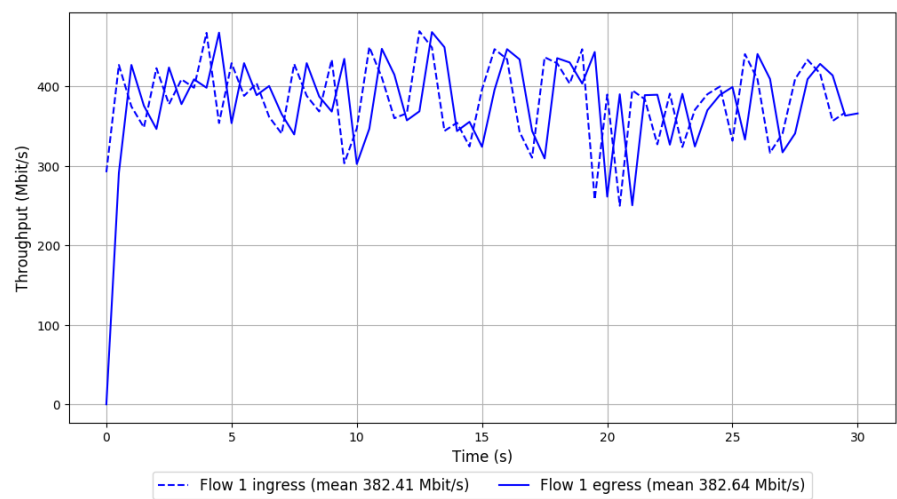
-- Flow 1:

Average throughput: 382.64 Mbit/s

95th percentile per-packet one-way delay: 5.235 ms

Loss rate: 0.01%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-04 06:37:27

End at: 2018-07-04 06:37:57

Local clock offset: -0.99 ms

Remote clock offset: 2.442 ms

Below is generated by plot.py at 2018-07-04 09:14:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.43 Mbit/s

95th percentile per-packet one-way delay: 4.936 ms

Loss rate: 0.02%

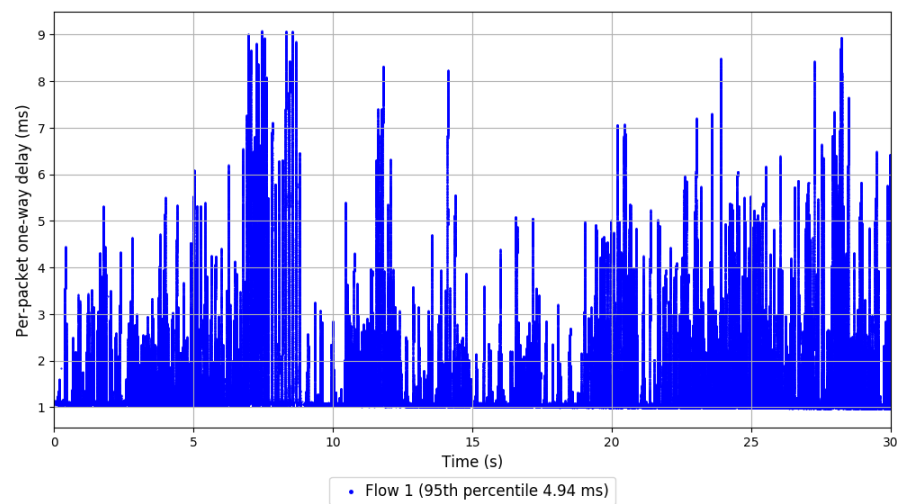
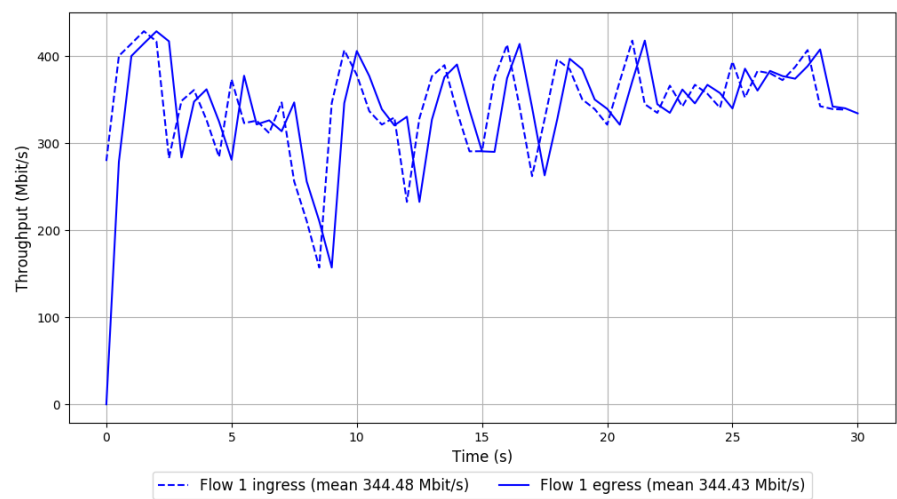
-- Flow 1:

Average throughput: 344.43 Mbit/s

95th percentile per-packet one-way delay: 4.936 ms

Loss rate: 0.02%

Run 9: Report of Verus — Data Link

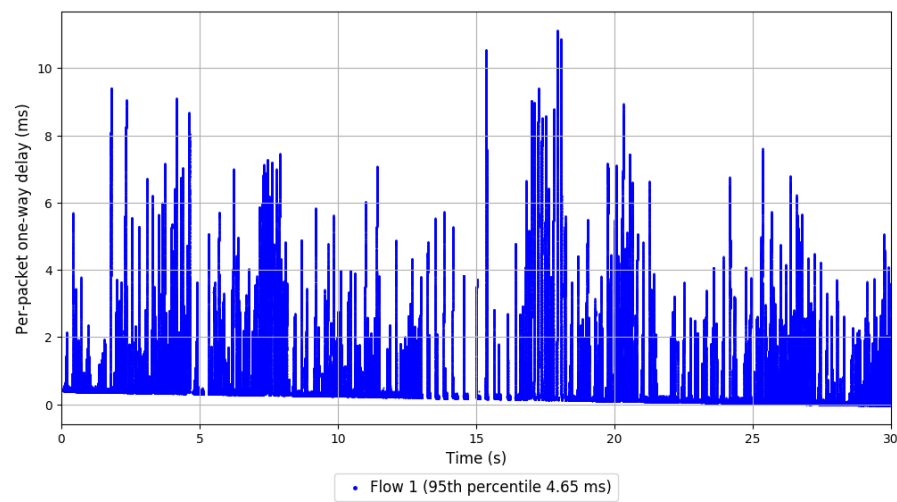
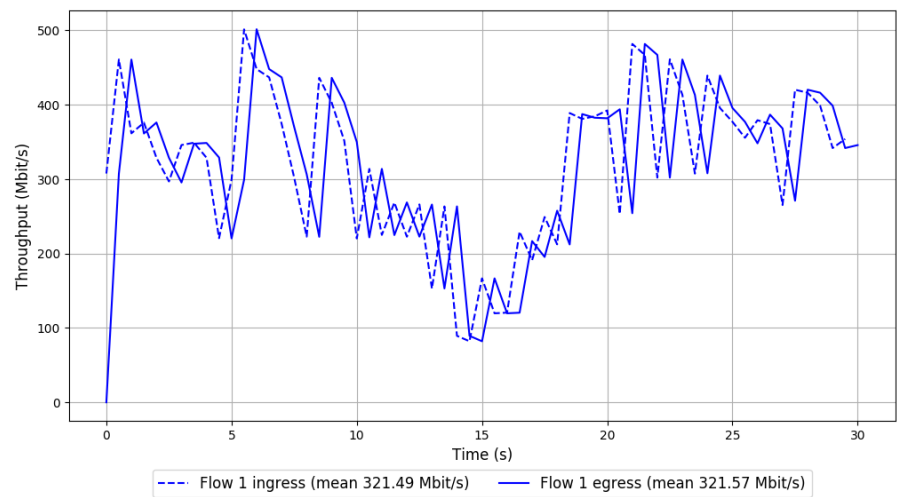


Run 10: Statistics of Verus

Start at: 2018-07-04 07:03:26
End at: 2018-07-04 07:03:56
Local clock offset: -3.694 ms
Remote clock offset: -2.043 ms

Below is generated by plot.py at 2018-07-04 09:14:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 321.57 Mbit/s
95th percentile per-packet one-way delay: 4.649 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 321.57 Mbit/s
95th percentile per-packet one-way delay: 4.649 ms
Loss rate: 0.04%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-04 03:02:07

End at: 2018-07-04 03:02:37

Local clock offset: -3.928 ms

Remote clock offset: 4.786 ms

Below is generated by plot.py at 2018-07-04 09:17:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.14 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.07%

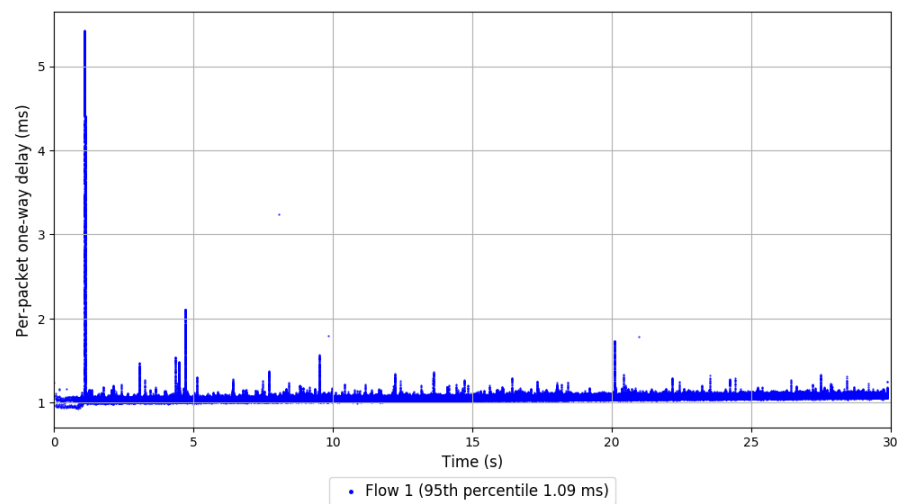
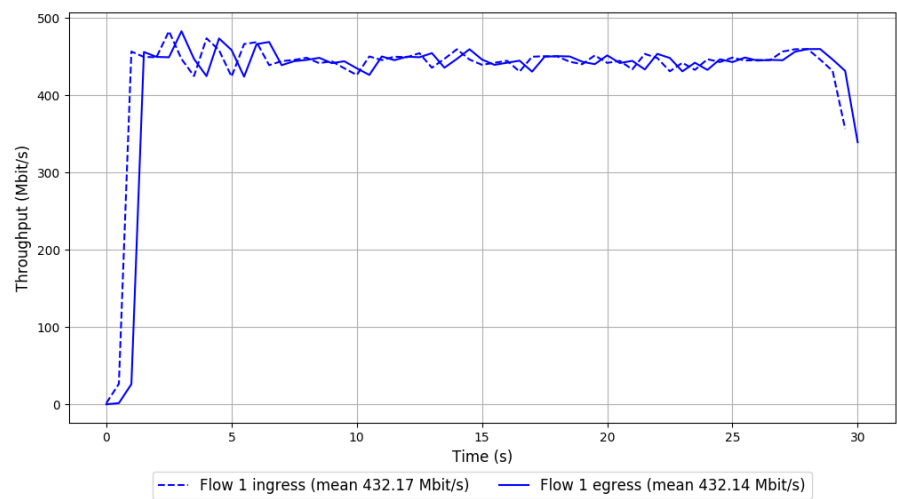
-- Flow 1:

Average throughput: 432.14 Mbit/s

95th percentile per-packet one-way delay: 1.091 ms

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-04 03:27:58

End at: 2018-07-04 03:28:28

Local clock offset: 0.322 ms

Remote clock offset: 0.786 ms

Below is generated by plot.py at 2018-07-04 09:17:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.81 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.06%

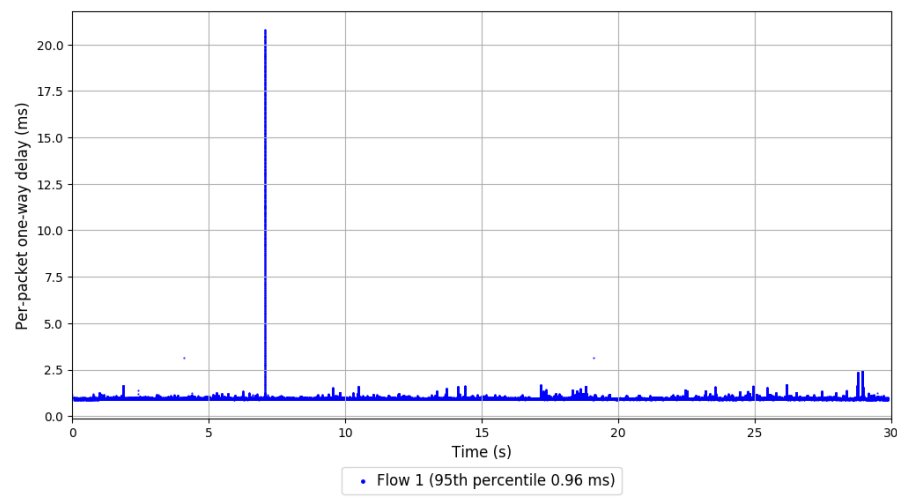
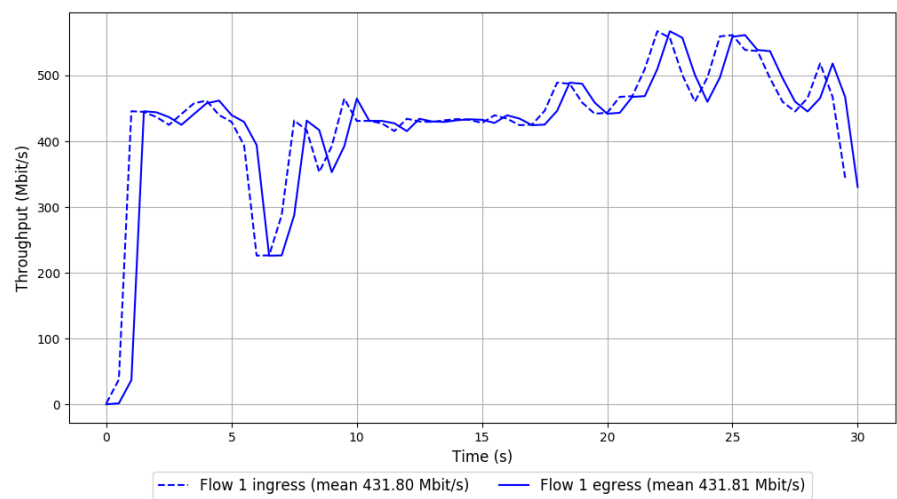
-- Flow 1:

Average throughput: 431.81 Mbit/s

95th percentile per-packet one-way delay: 0.964 ms

Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-04 03:53:56

End at: 2018-07-04 03:54:26

Local clock offset: 0.577 ms

Remote clock offset: 3.131 ms

Below is generated by plot.py at 2018-07-04 09:17:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.84 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.07%

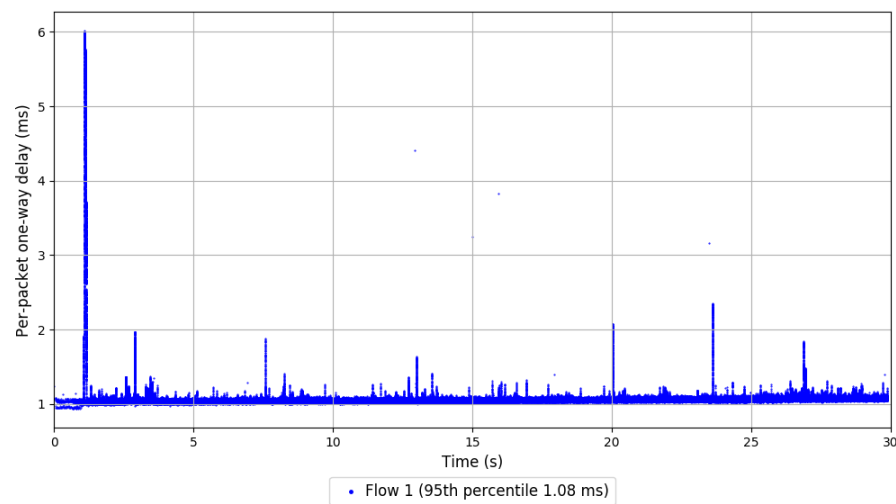
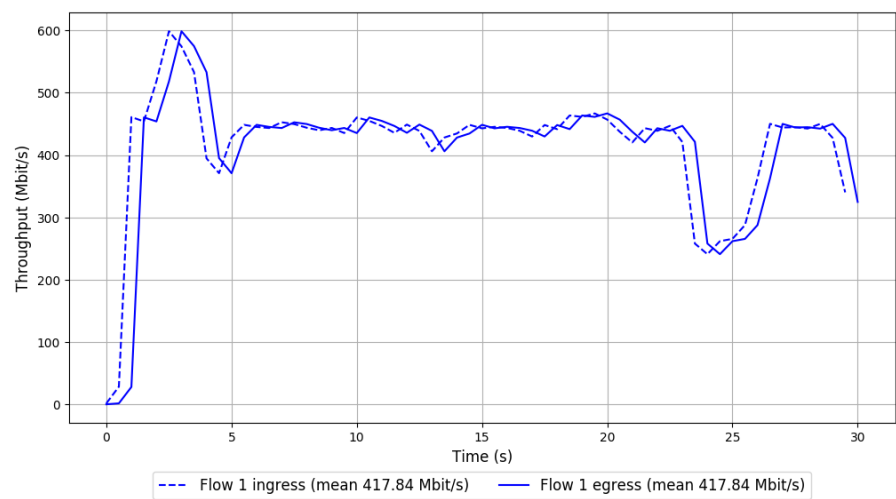
-- Flow 1:

Average throughput: 417.84 Mbit/s

95th percentile per-packet one-way delay: 1.080 ms

Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-04 04:19:54

End at: 2018-07-04 04:20:24

Local clock offset: 0.15 ms

Remote clock offset: 2.554 ms

Below is generated by plot.py at 2018-07-04 09:18:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.03 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.07%

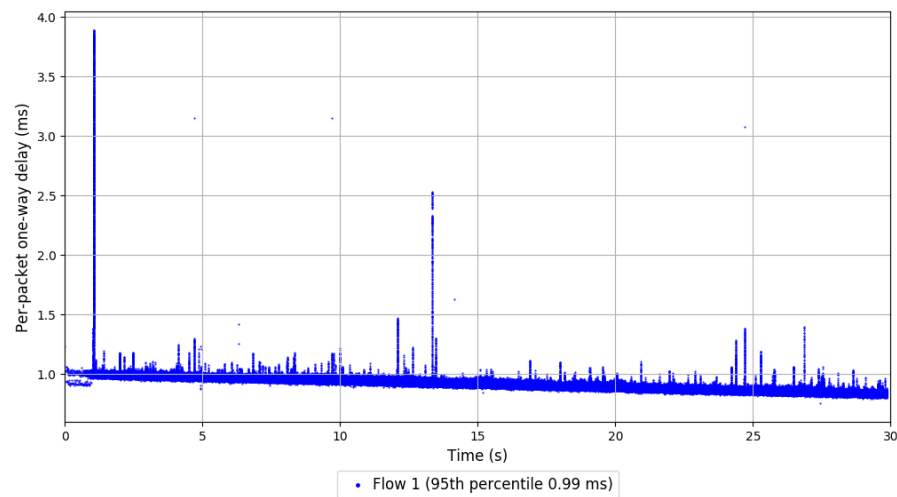
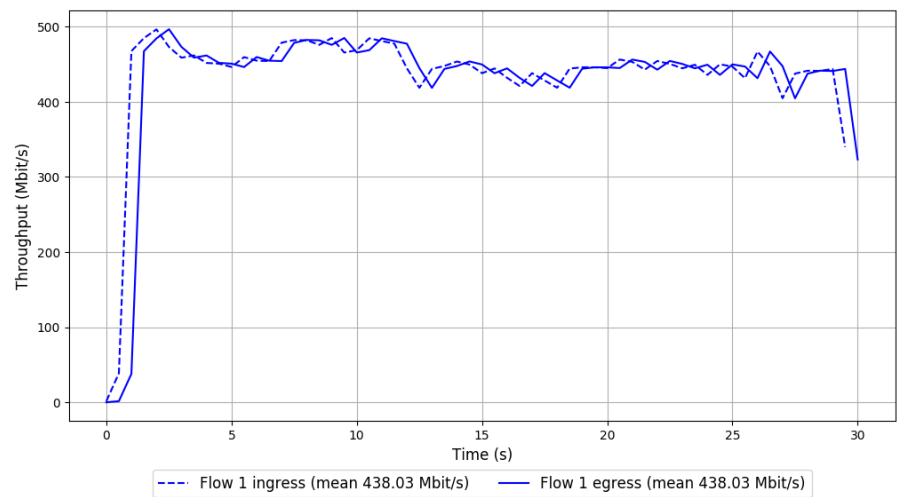
-- Flow 1:

Average throughput: 438.03 Mbit/s

95th percentile per-packet one-way delay: 0.988 ms

Loss rate: 0.07%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-04 04:45:50

End at: 2018-07-04 04:46:20

Local clock offset: 3.186 ms

Remote clock offset: -1.277 ms

Below is generated by plot.py at 2018-07-04 09:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.89 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.07%

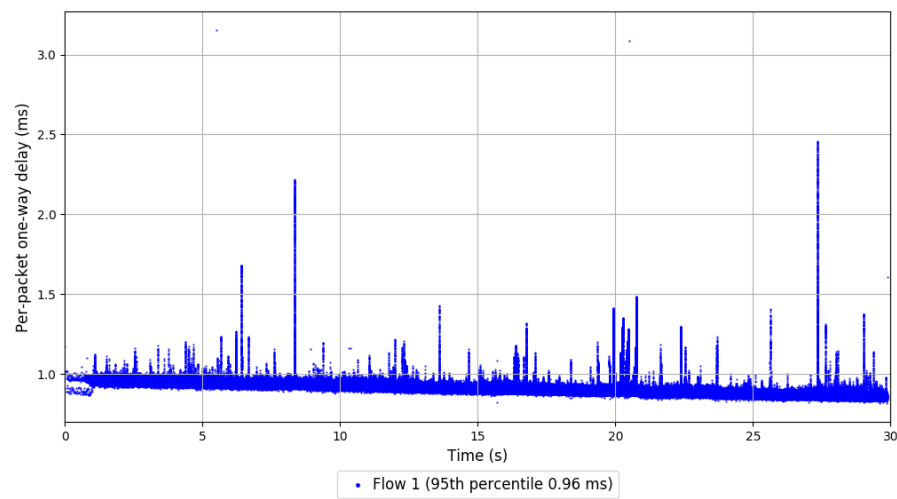
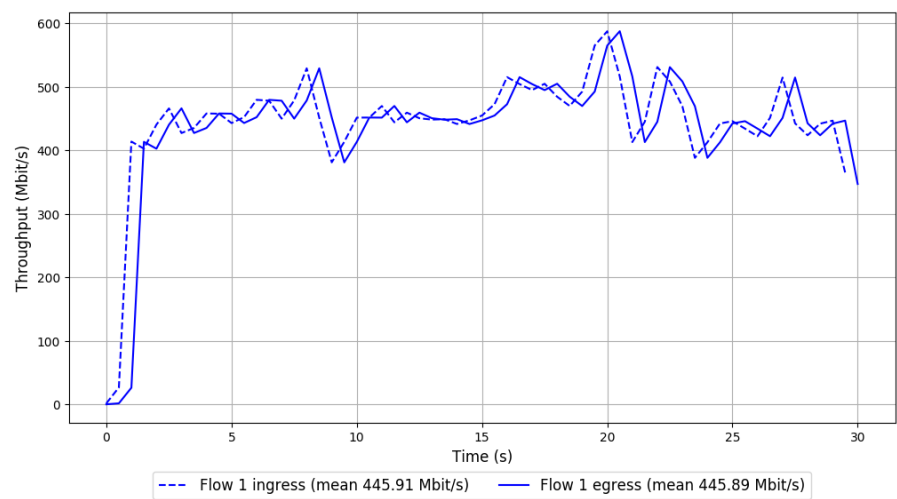
-- Flow 1:

Average throughput: 445.89 Mbit/s

95th percentile per-packet one-way delay: 0.959 ms

Loss rate: 0.07%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-04 05:11:45

End at: 2018-07-04 05:12:15

Local clock offset: 2.12 ms

Remote clock offset: -0.811 ms

Below is generated by plot.py at 2018-07-04 09:19:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.11 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.06%

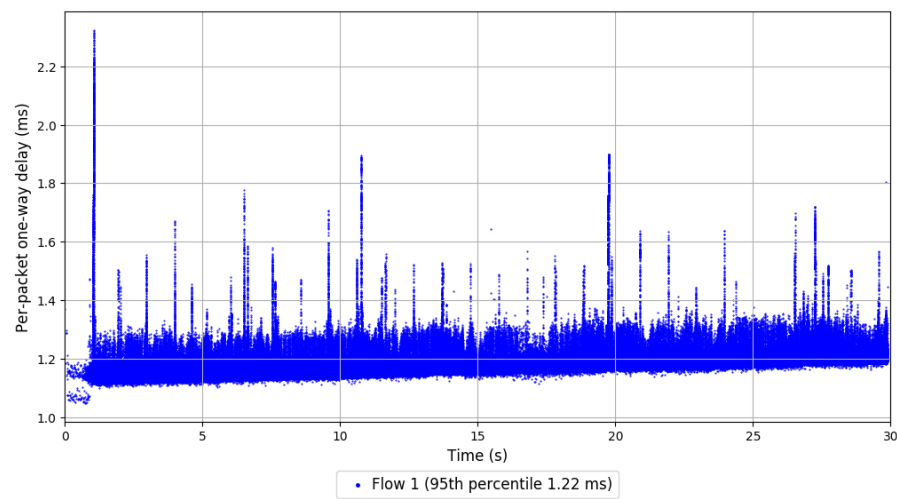
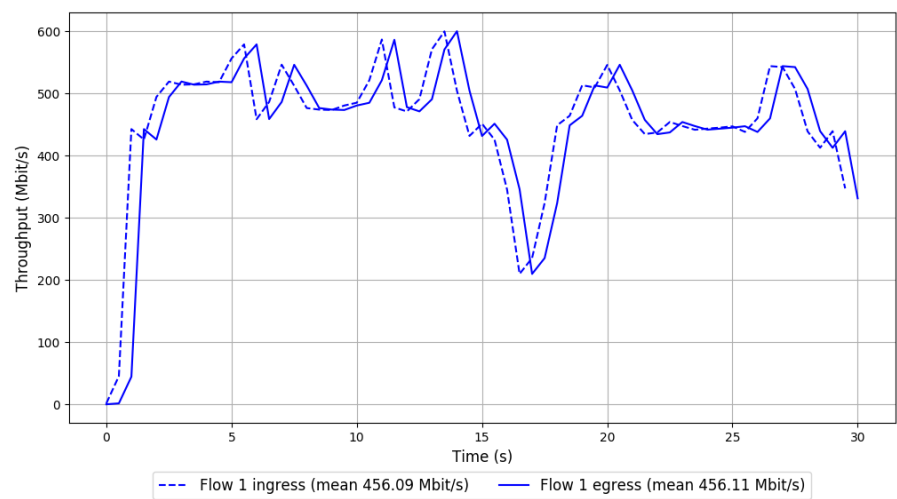
-- Flow 1:

Average throughput: 456.11 Mbit/s

95th percentile per-packet one-way delay: 1.223 ms

Loss rate: 0.06%

Run 6: Report of PCC-Vivace — Data Link

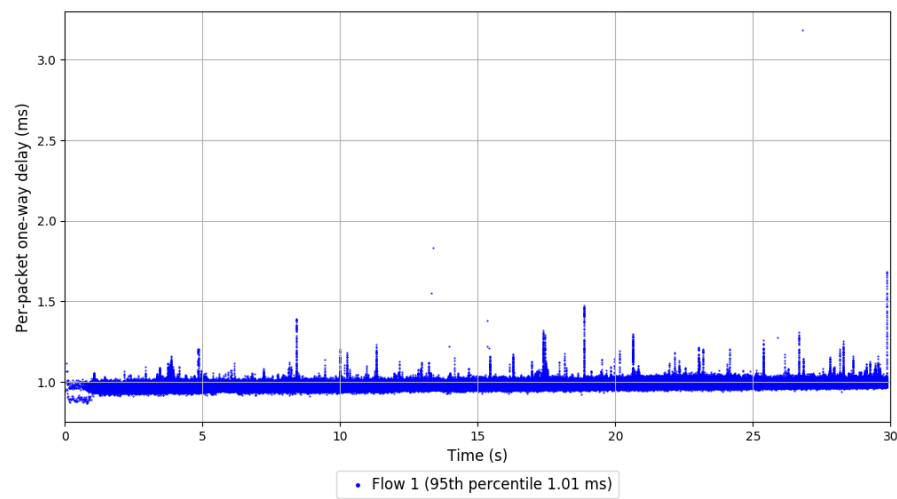
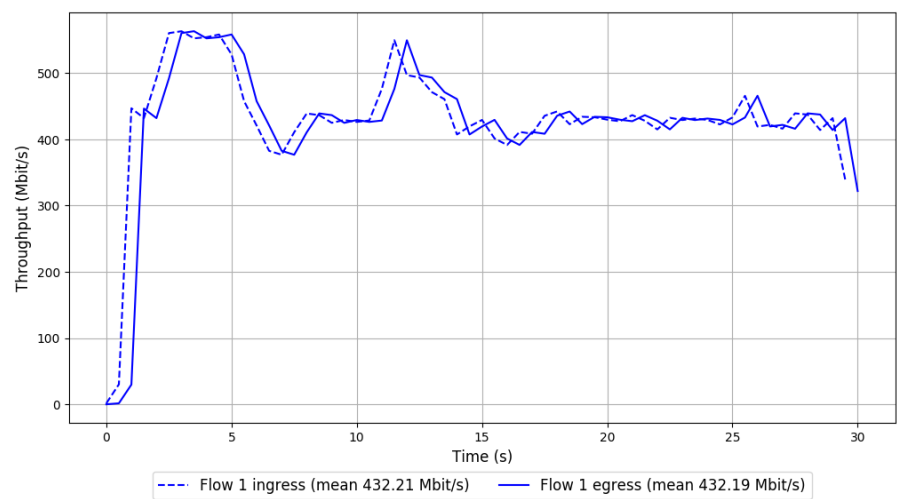


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-04 05:37:45
End at: 2018-07-04 05:38:15
Local clock offset: 0.194 ms
Remote clock offset: -0.333 ms

Below is generated by plot.py at 2018-07-04 09:19:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 432.19 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 432.19 Mbit/s
95th percentile per-packet one-way delay: 1.006 ms
Loss rate: 0.07%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-04 06:03:30

End at: 2018-07-04 06:04:00

Local clock offset: -0.485 ms

Remote clock offset: 1.962 ms

Below is generated by plot.py at 2018-07-04 09:19:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.47 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.07%

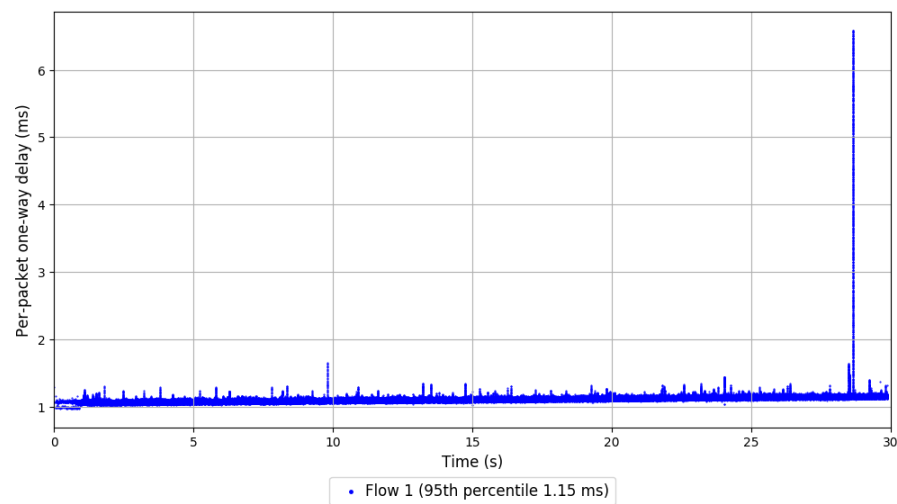
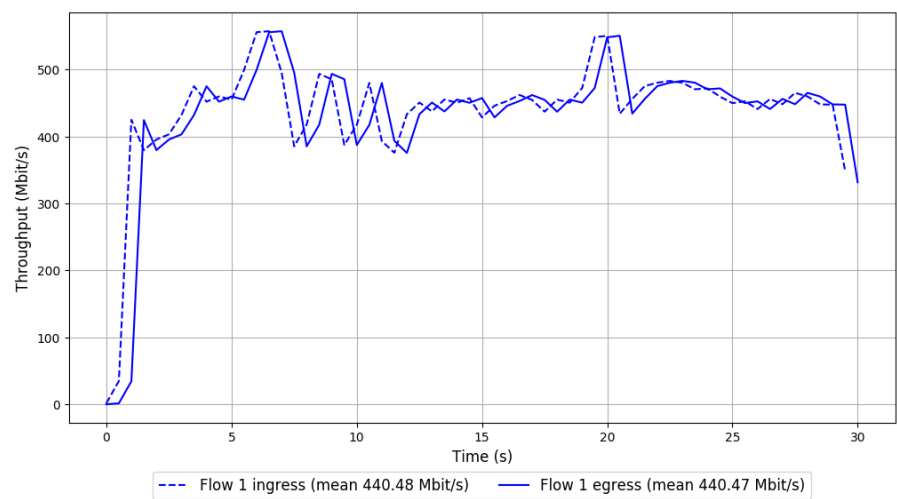
-- Flow 1:

Average throughput: 440.47 Mbit/s

95th percentile per-packet one-way delay: 1.148 ms

Loss rate: 0.07%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-04 06:29:30

End at: 2018-07-04 06:30:00

Local clock offset: 0.225 ms

Remote clock offset: 5.384 ms

Below is generated by plot.py at 2018-07-04 09:20:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 425.67 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.07%

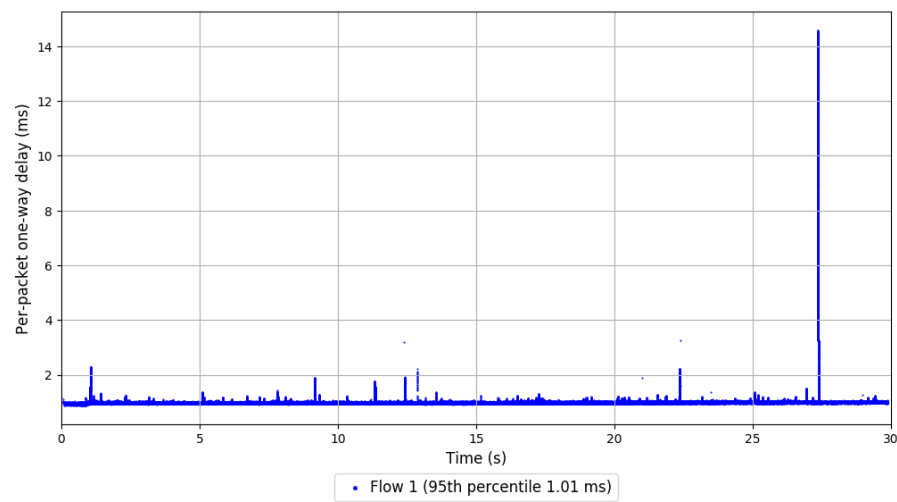
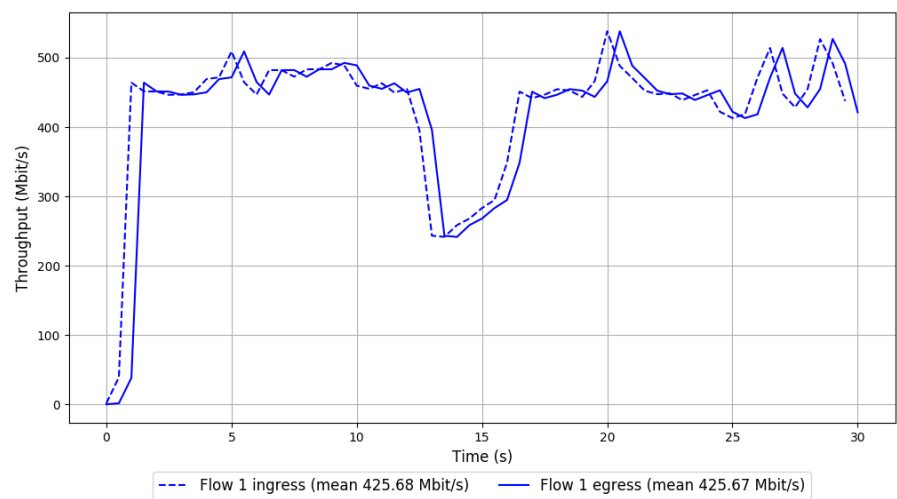
-- Flow 1:

Average throughput: 425.67 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.07%

Run 9: Report of PCC-Vivace — Data Link

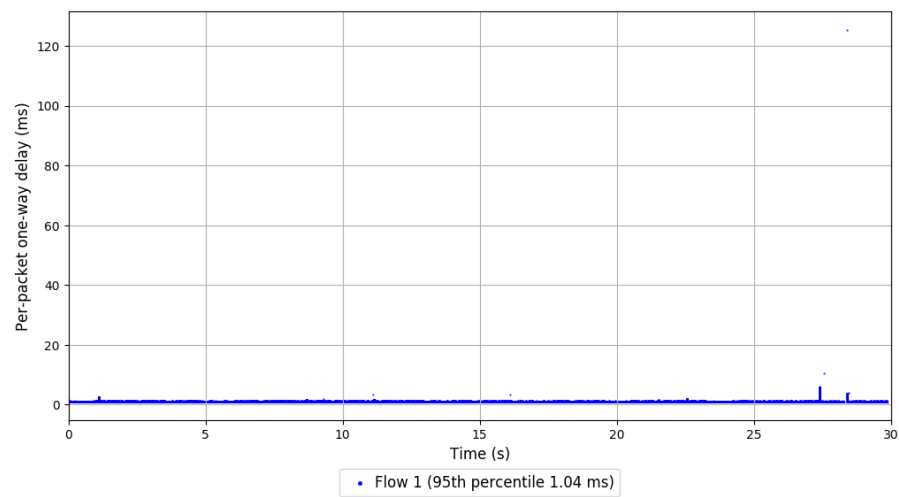
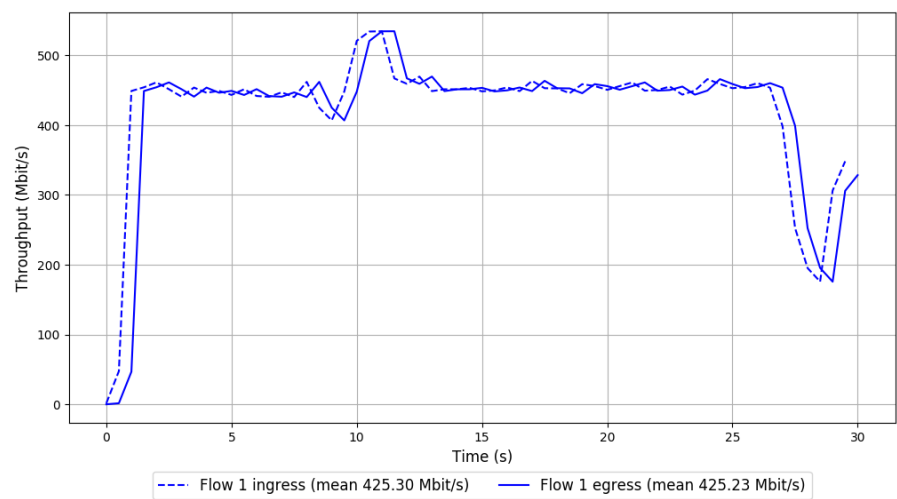


Run 10: Statistics of PCC-Vivace

Start at: 2018-07-04 06:55:31
End at: 2018-07-04 06:56:01
Local clock offset: -3.267 ms
Remote clock offset: -1.304 ms

Below is generated by plot.py at 2018-07-04 09:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 425.23 Mbit/s
95th percentile per-packet one-way delay: 1.043 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 425.23 Mbit/s
95th percentile per-packet one-way delay: 1.043 ms
Loss rate: 0.08%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-04 02:50:17

End at: 2018-07-04 02:50:47

Local clock offset: -3.666 ms

Remote clock offset: 3.66 ms

Below is generated by plot.py at 2018-07-04 09:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.07%

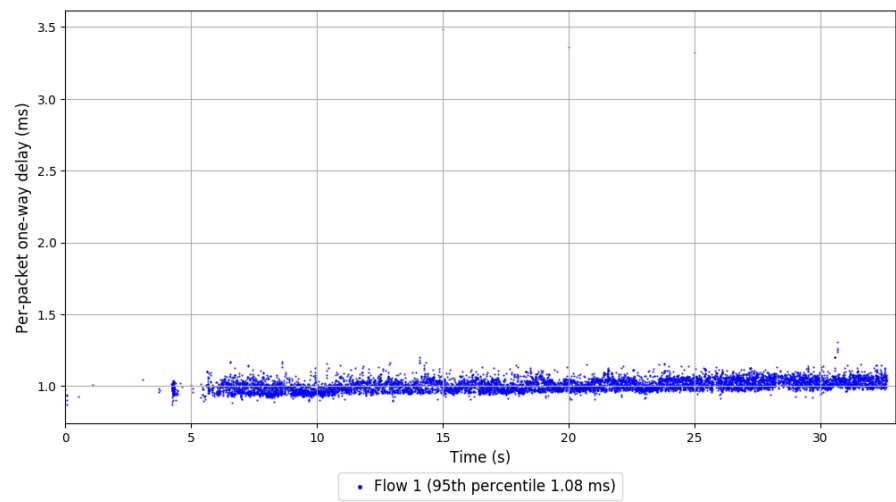
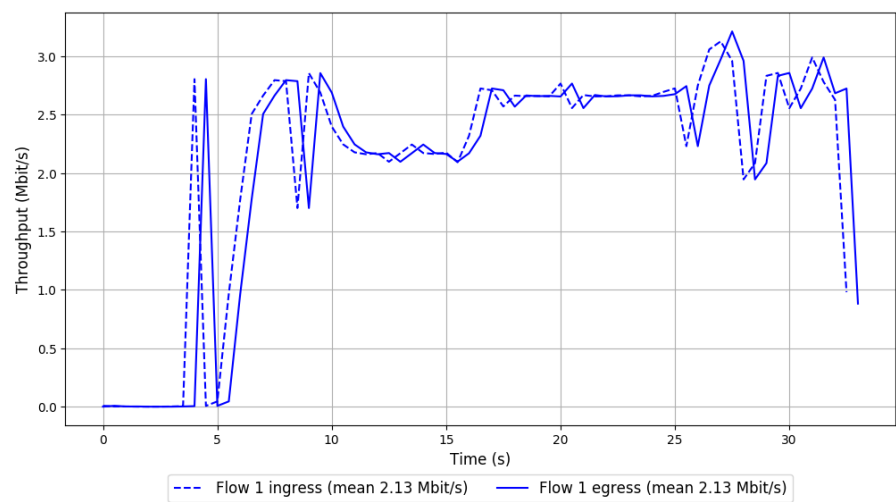
-- Flow 1:

Average throughput: 2.13 Mbit/s

95th percentile per-packet one-way delay: 1.079 ms

Loss rate: 0.07%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-04 03:16:10

End at: 2018-07-04 03:16:40

Local clock offset: -0.615 ms

Remote clock offset: 1.846 ms

Below is generated by plot.py at 2018-07-04 09:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 0.863 ms

Loss rate: 0.07%

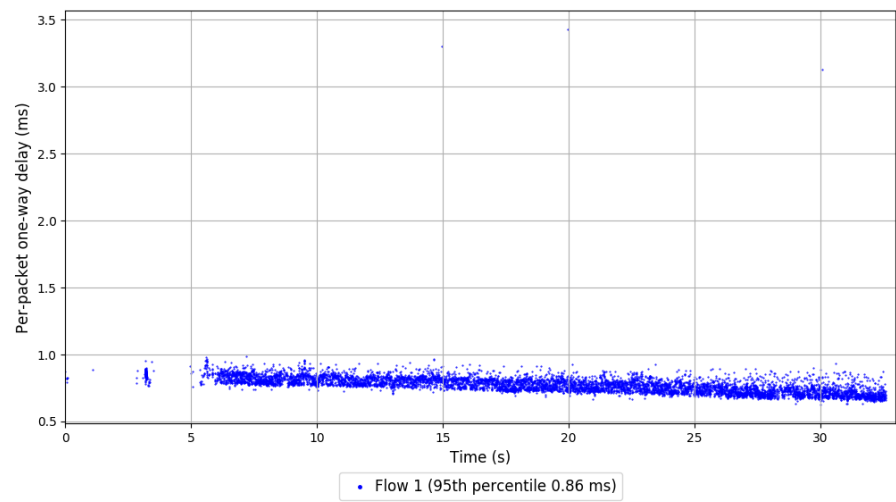
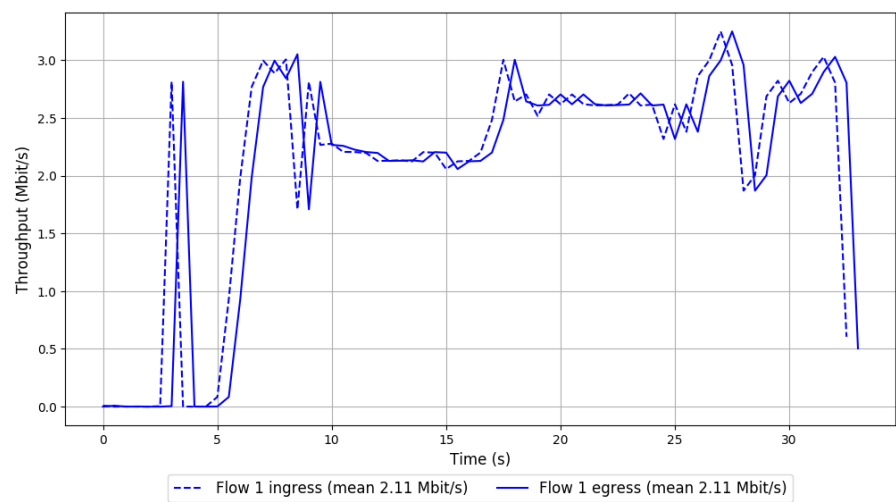
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 0.863 ms

Loss rate: 0.07%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-04 03:42:01

End at: 2018-07-04 03:42:31

Local clock offset: 0.43 ms

Remote clock offset: 0.981 ms

Below is generated by plot.py at 2018-07-04 09:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.14%

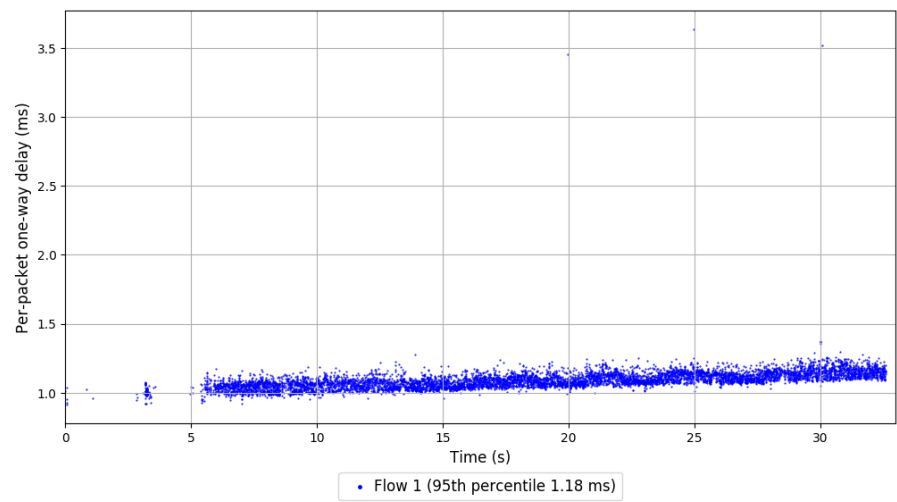
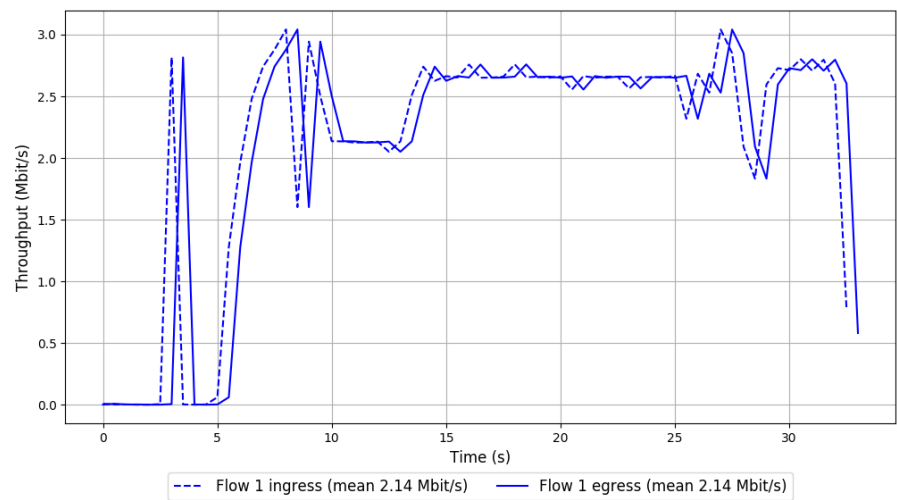
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 1.182 ms

Loss rate: 0.14%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-04 04:07:58

End at: 2018-07-04 04:08:28

Local clock offset: 0.419 ms

Remote clock offset: 4.323 ms

Below is generated by plot.py at 2018-07-04 09:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.07%

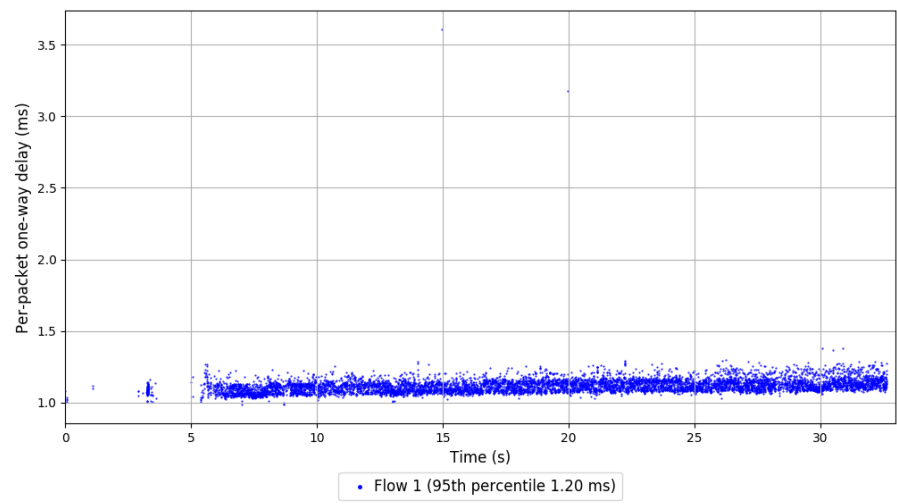
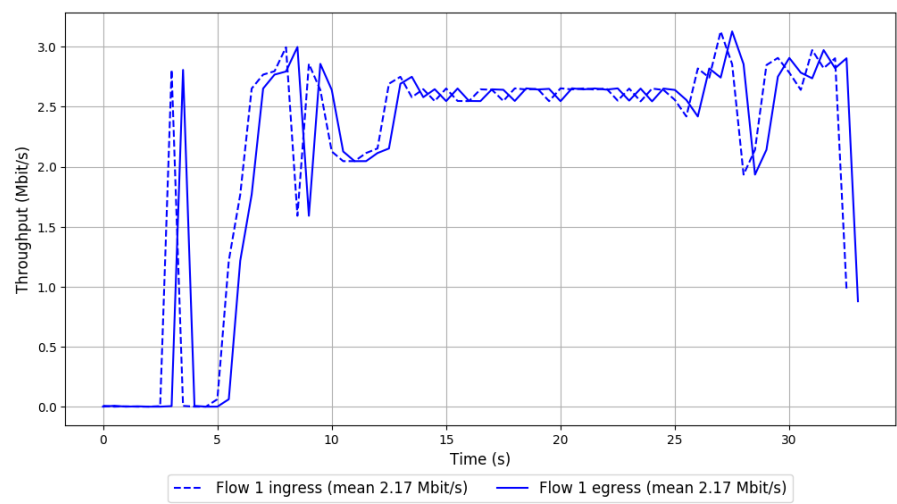
-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.199 ms

Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link

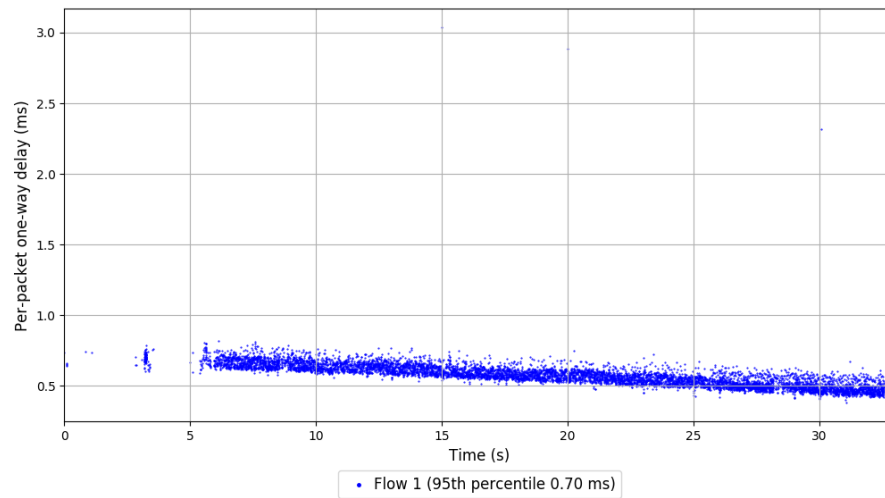
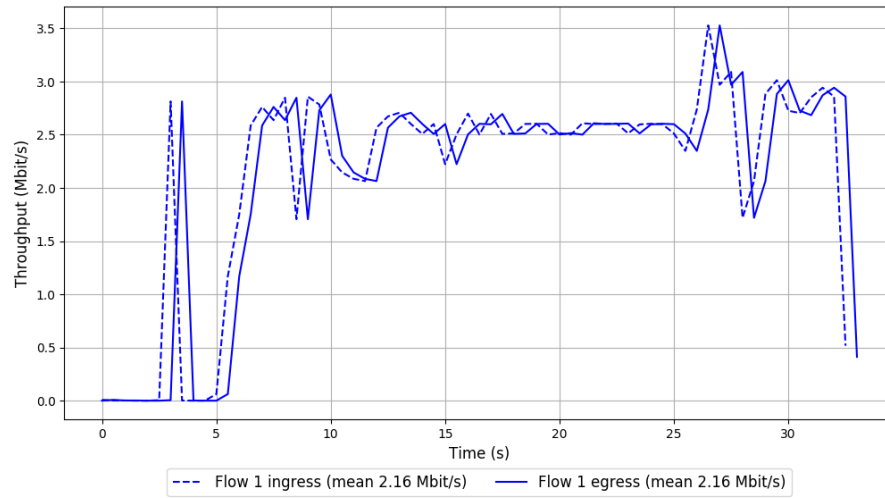


Run 5: Statistics of WebRTC media

Start at: 2018-07-04 04:34:01
End at: 2018-07-04 04:34:31
Local clock offset: 0.195 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-07-04 09:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 0.696 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 0.696 ms
Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link

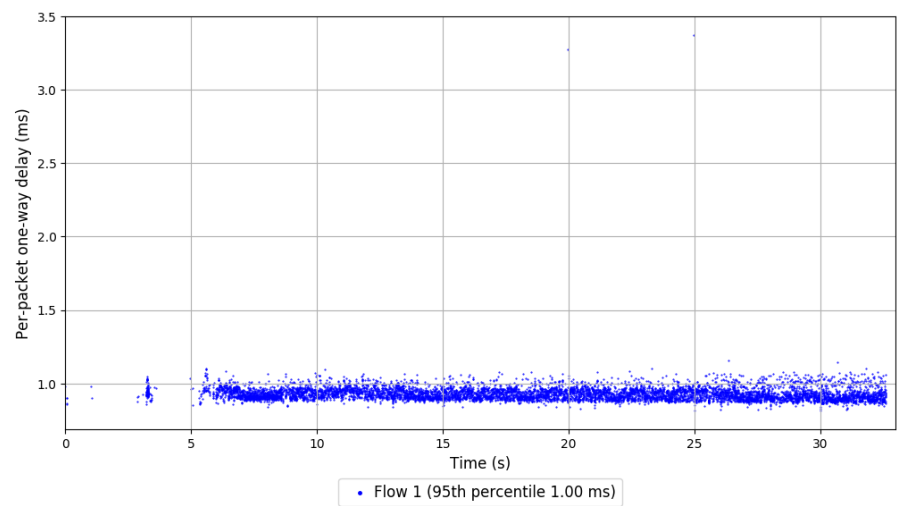
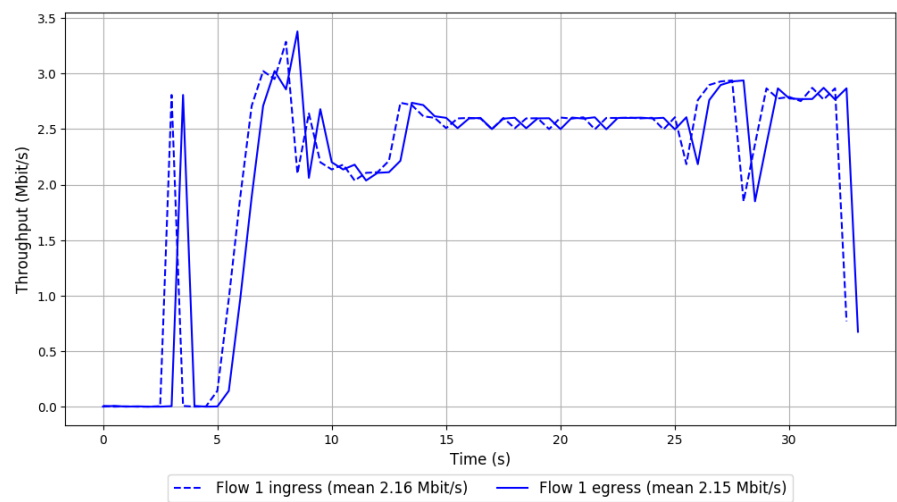


Run 6: Statistics of WebRTC media

Start at: 2018-07-04 04:59:57
End at: 2018-07-04 05:00:27
Local clock offset: 4.538 ms
Remote clock offset: -0.808 ms

Below is generated by plot.py at 2018-07-04 09:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 1.005 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 1.005 ms
Loss rate: 0.07%

Run 6: Report of WebRTC media — Data Link

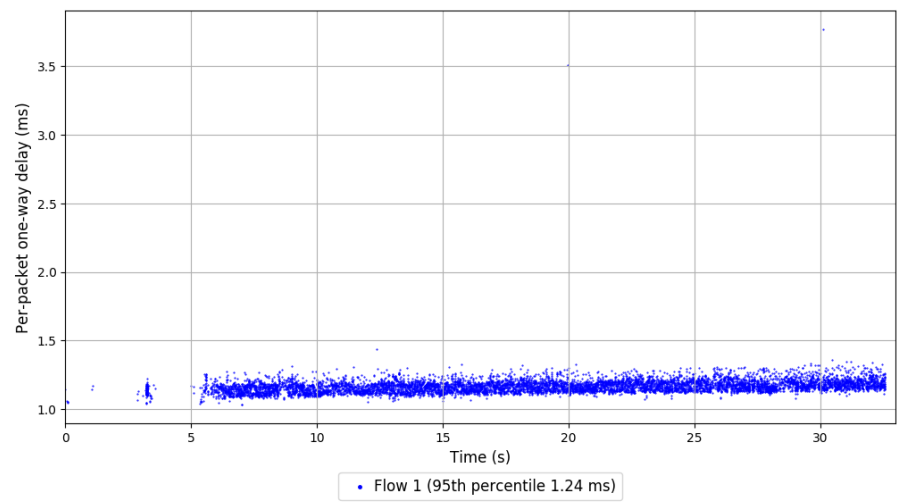
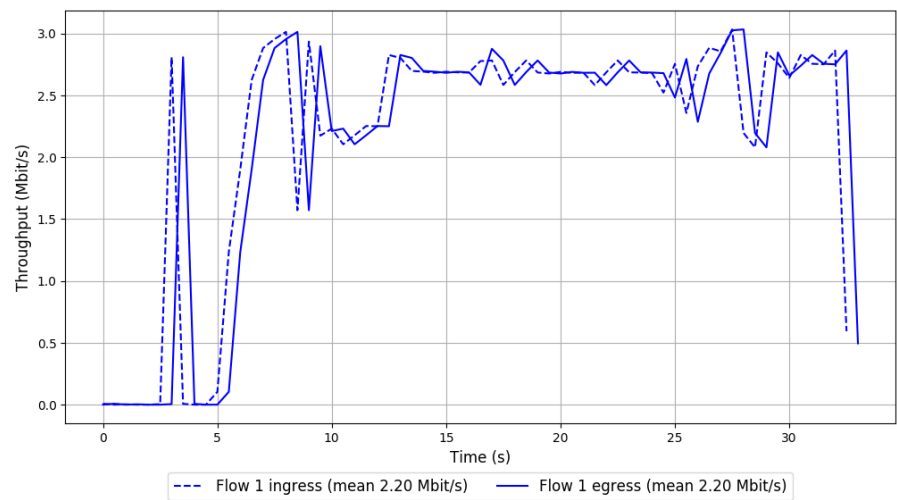


Run 7: Statistics of WebRTC media

Start at: 2018-07-04 05:25:51
End at: 2018-07-04 05:26:21
Local clock offset: 0.818 ms
Remote clock offset: -0.872 ms

Below is generated by plot.py at 2018-07-04 09:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 1.240 ms
Loss rate: 0.07%

Run 7: Report of WebRTC media — Data Link

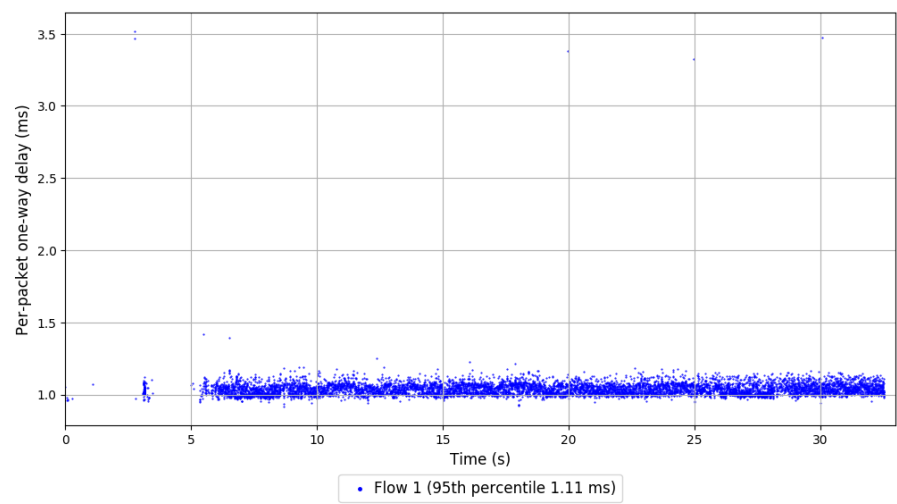
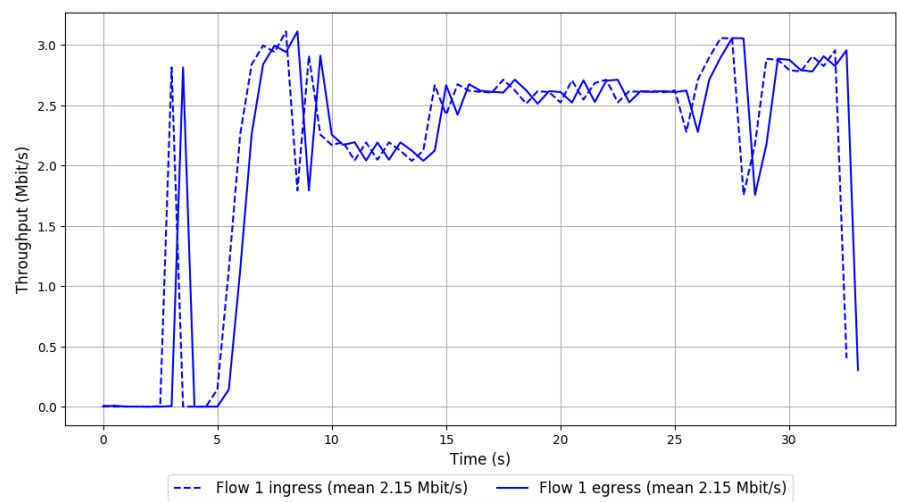


Run 8: Statistics of WebRTC media

Start at: 2018-07-04 05:51:43
End at: 2018-07-04 05:52:13
Local clock offset: -0.378 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-07-04 09:20:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.15 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-04 06:17:38

End at: 2018-07-04 06:18:08

Local clock offset: 0.12 ms

Remote clock offset: 4.447 ms

Below is generated by plot.py at 2018-07-04 09:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.05%

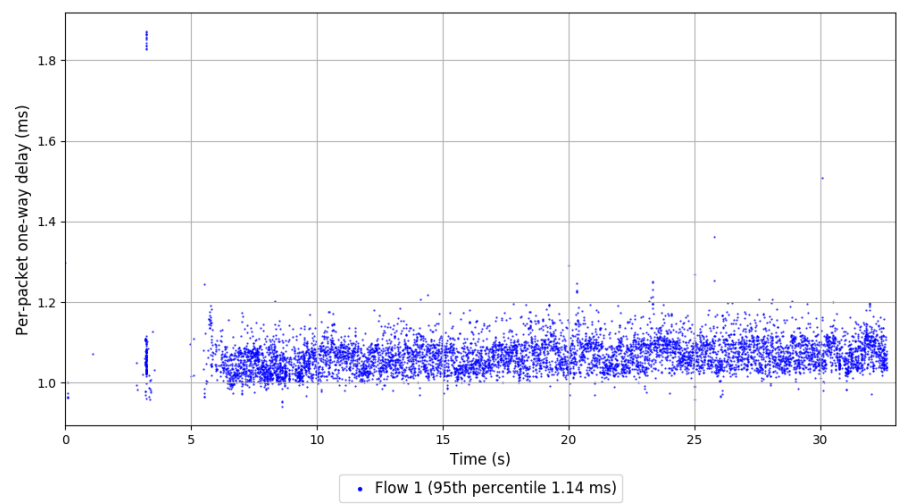
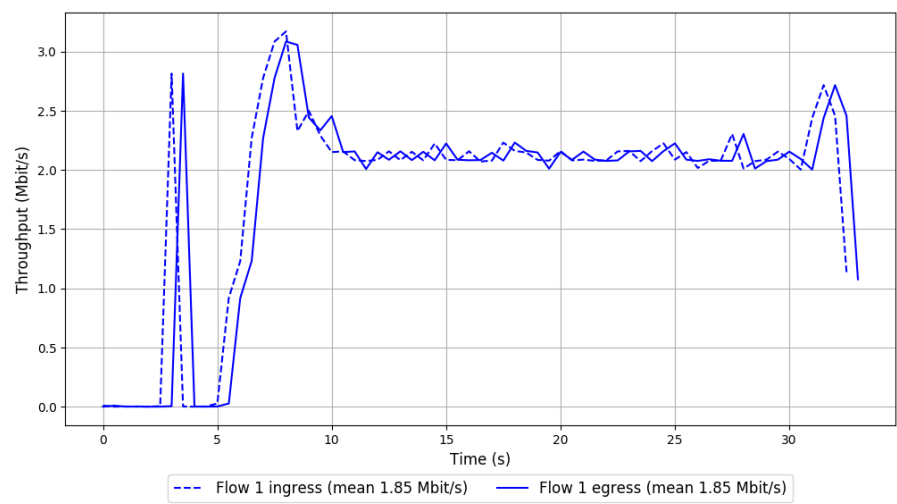
-- Flow 1:

Average throughput: 1.85 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.05%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-04 06:43:37

End at: 2018-07-04 06:44:07

Local clock offset: -2.193 ms

Remote clock offset: 0.48 ms

Below is generated by plot.py at 2018-07-04 09:20:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 1.149 ms

Loss rate: 0.07%

Run 10: Report of WebRTC media — Data Link

