

Pantheon Report

Generated at 2018-06-30 12:40:10 (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.

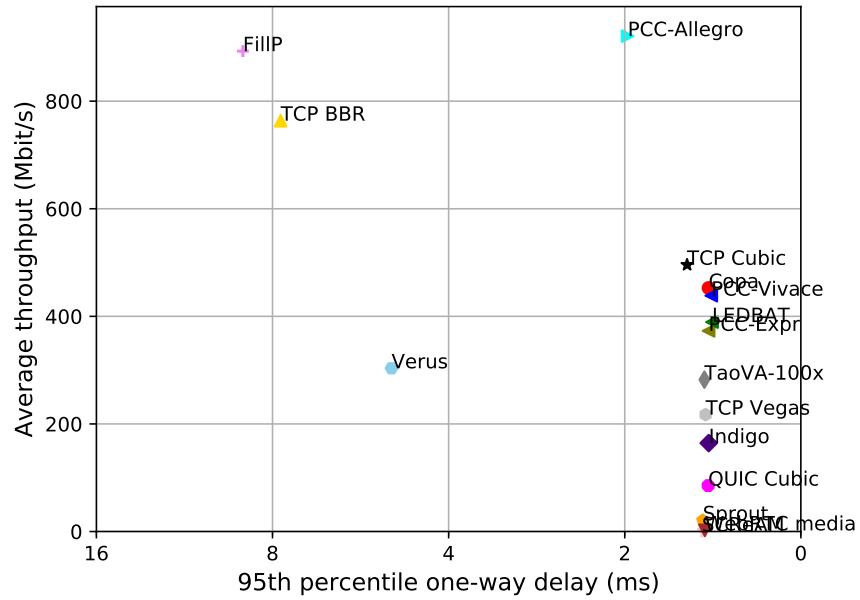
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

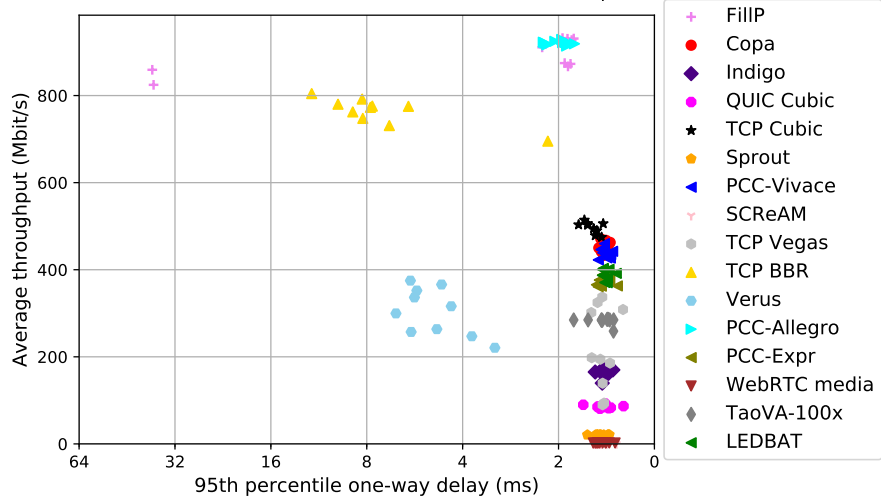
Git summary:

```
branch: master @ 715dc5f09d172e419699f6f17f1cb4c45064f212
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 30060ab034deb3424347f5cc3db86198eac35d2a
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)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	763.69	7.75	0.06
Copa	10	452.72	1.05	0.07
TCP Cubic	10	495.77	1.29	0.07
FillP	10	892.96	8.99	0.61
FillP-Sheep	0	N/A	N/A	N/A
Indigo	10	164.38	1.05	0.07
LEDBAT	10	389.35	1.01	0.07
PCC-Allegro	10	920.96	1.97	0.07
PCC-Expr	10	373.02	1.05	0.07
QUIC Cubic	10	85.35	1.05	0.07
SCReAM	10	0.22	1.12	0.08
Sprout	10	20.86	1.11	0.06
TaoVA-100x	10	282.28	1.10	0.07
TCP Vegas	10	217.28	1.08	0.03
Verus	10	303.41	5.01	0.07
PCC-Vivace	10	438.42	1.02	0.07
WebRTC media	10	2.12	1.09	0.07

Run 1: Statistics of TCP BBR

Start at: 2018-06-30 06:50:24

End at: 2018-06-30 06:50:54

Local clock offset: -0.021 ms

Remote clock offset: 11.764 ms

Below is generated by plot.py at 2018-06-30 11:09:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 772.86 Mbit/s

95th percentile per-packet one-way delay: 7.791 ms

Loss rate: 0.08%

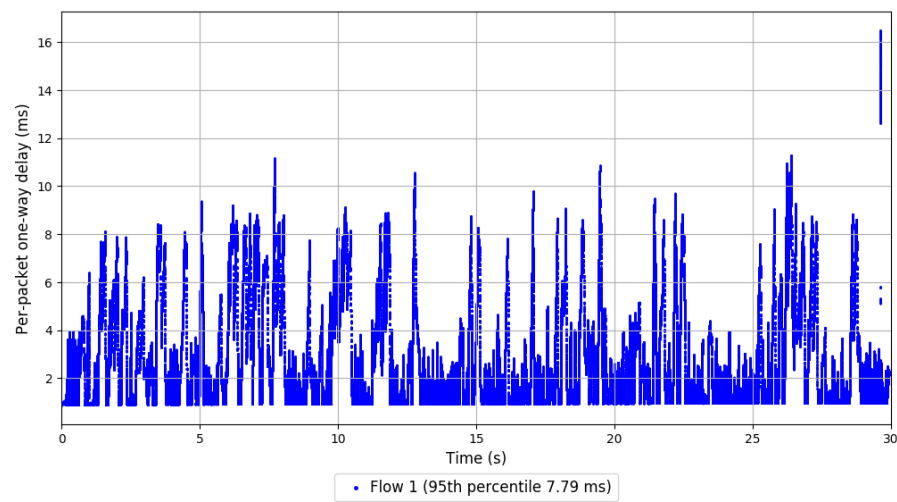
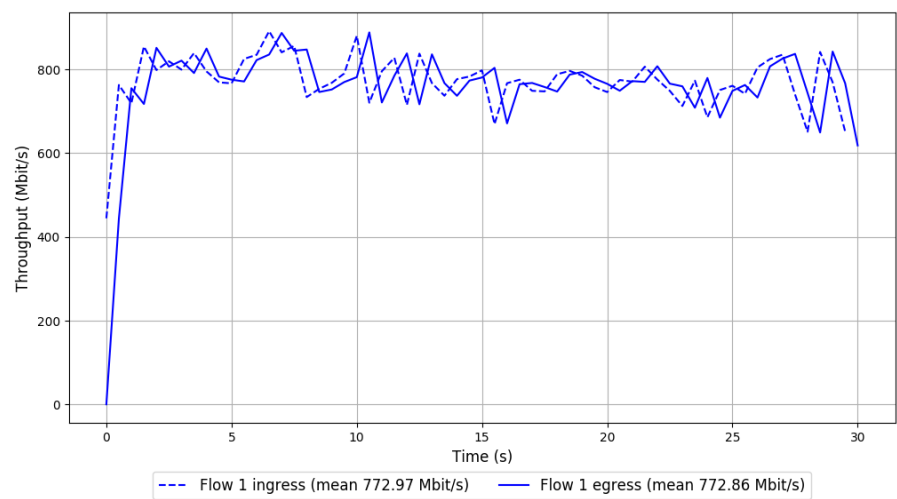
-- Flow 1:

Average throughput: 772.86 Mbit/s

95th percentile per-packet one-way delay: 7.791 ms

Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-30 07:16:03

End at: 2018-06-30 07:16:33

Local clock offset: 0.209 ms

Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-06-30 11:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 775.80 Mbit/s

95th percentile per-packet one-way delay: 7.684 ms

Loss rate: 0.09%

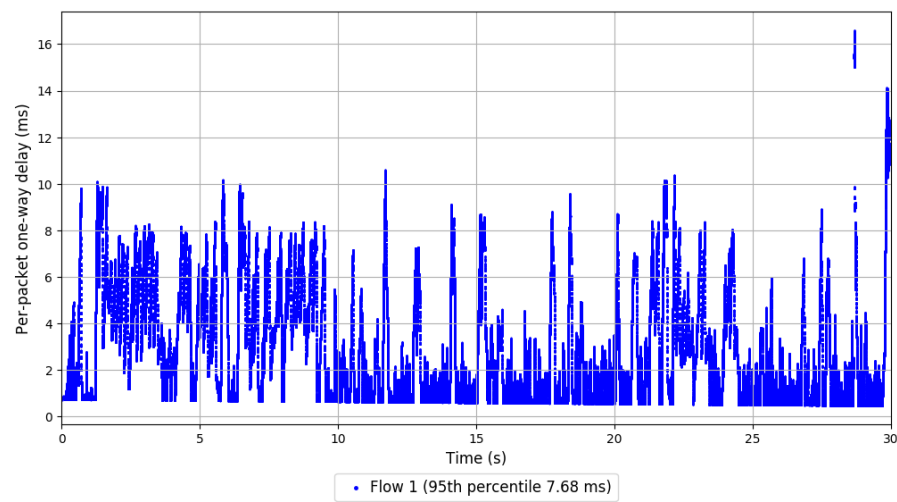
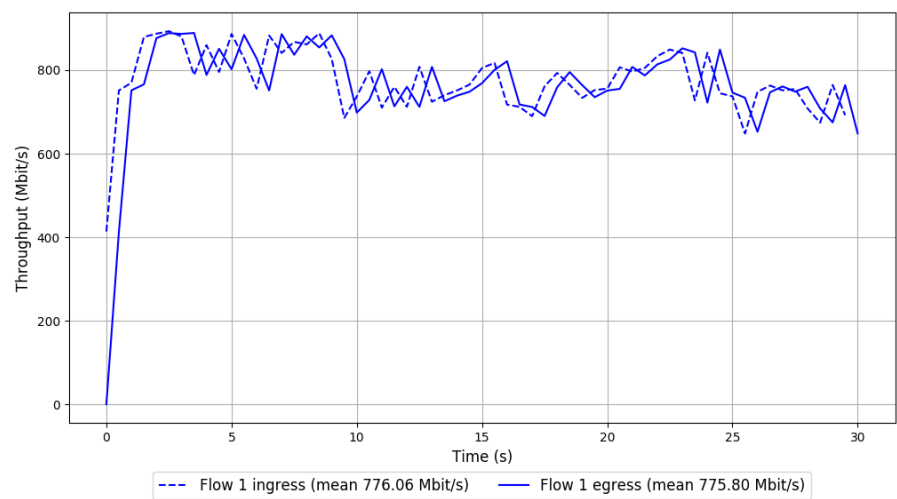
-- Flow 1:

Average throughput: 775.80 Mbit/s

95th percentile per-packet one-way delay: 7.684 ms

Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-30 07:41:46

End at: 2018-06-30 07:42:16

Local clock offset: 3.699 ms

Remote clock offset: 1.278 ms

Below is generated by plot.py at 2018-06-30 11:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 747.55 Mbit/s

95th percentile per-packet one-way delay: 8.231 ms

Loss rate: 0.06%

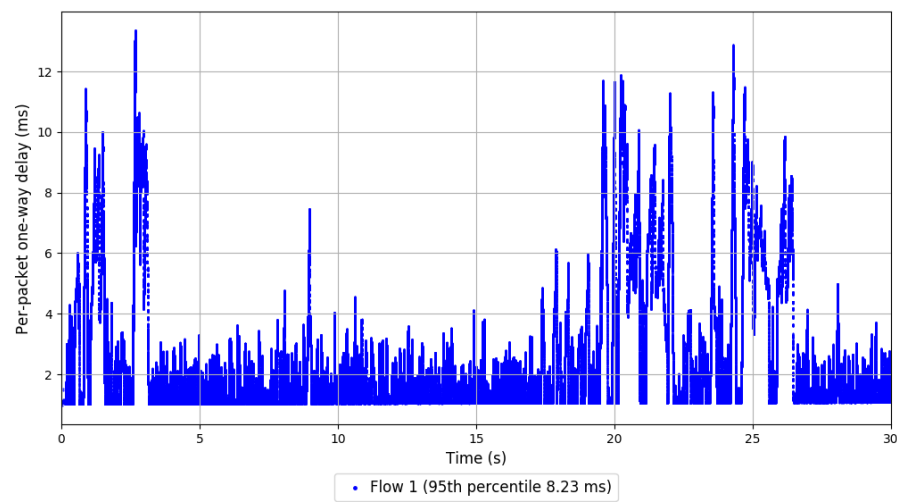
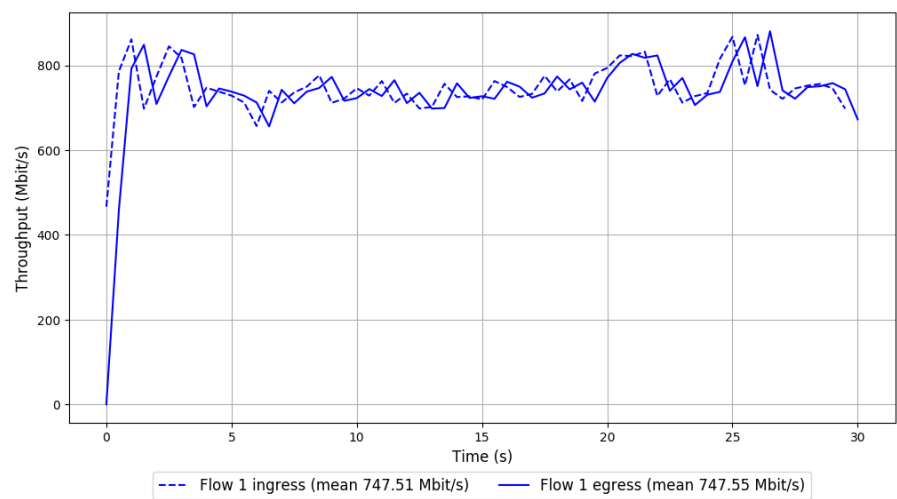
-- Flow 1:

Average throughput: 747.55 Mbit/s

95th percentile per-packet one-way delay: 8.231 ms

Loss rate: 0.06%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-30 08:07:19

End at: 2018-06-30 08:07:49

Local clock offset: 3.522 ms

Remote clock offset: 1.859 ms

Below is generated by plot.py at 2018-06-30 11:09:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 775.25 Mbit/s

95th percentile per-packet one-way delay: 5.919 ms

Loss rate: 0.07%

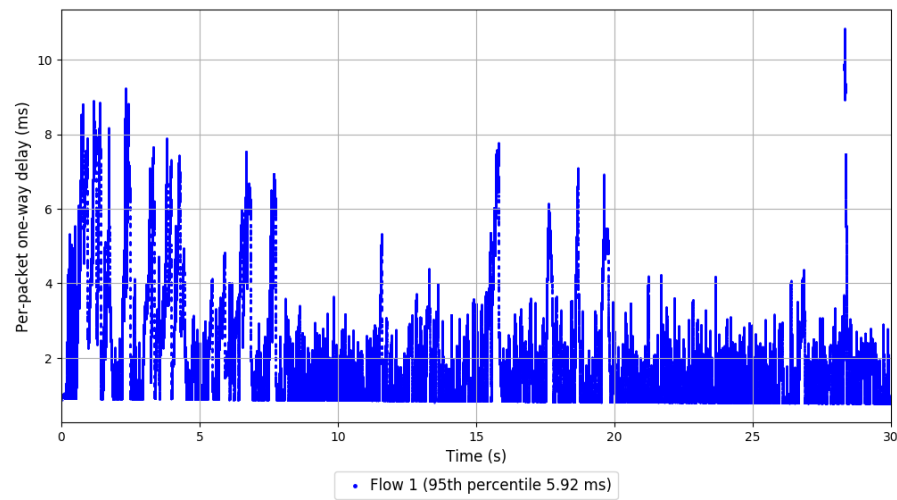
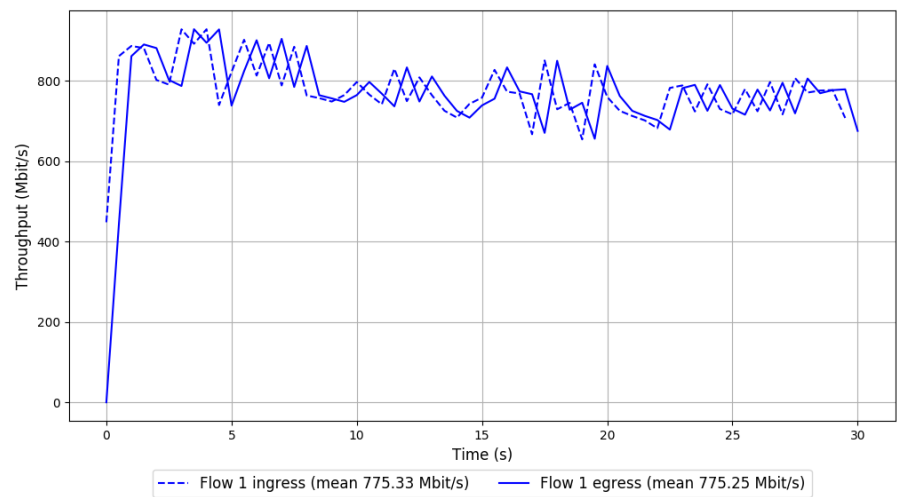
-- Flow 1:

Average throughput: 775.25 Mbit/s

95th percentile per-packet one-way delay: 5.919 ms

Loss rate: 0.07%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-30 08:33:00

End at: 2018-06-30 08:33:30

Local clock offset: 0.005 ms

Remote clock offset: -0.962 ms

Below is generated by plot.py at 2018-06-30 11:09:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.17 Mbit/s

95th percentile per-packet one-way delay: 9.847 ms

Loss rate: 0.10%

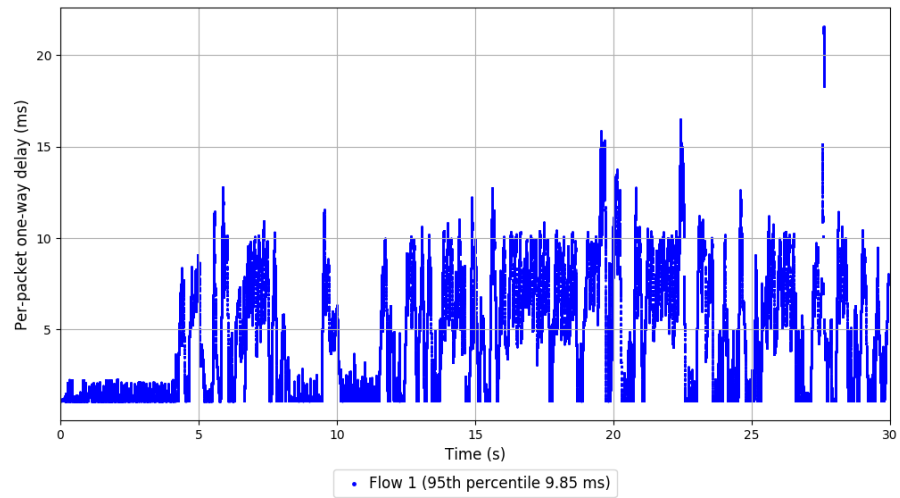
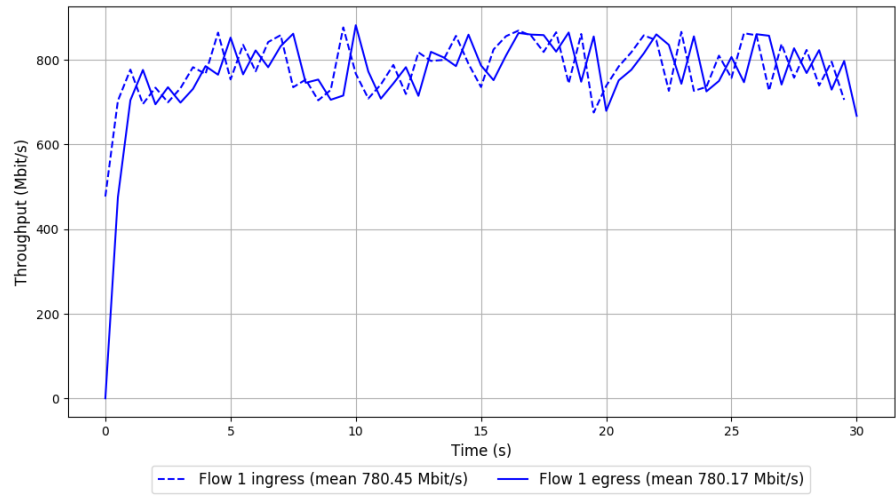
-- Flow 1:

Average throughput: 780.17 Mbit/s

95th percentile per-packet one-way delay: 9.847 ms

Loss rate: 0.10%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-30 08:58:38

End at: 2018-06-30 08:59:08

Local clock offset: -0.345 ms

Remote clock offset: 2.818 ms

Below is generated by plot.py at 2018-06-30 11:09:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 695.30 Mbit/s

95th percentile per-packet one-way delay: 2.161 ms

Loss rate: 0.03%

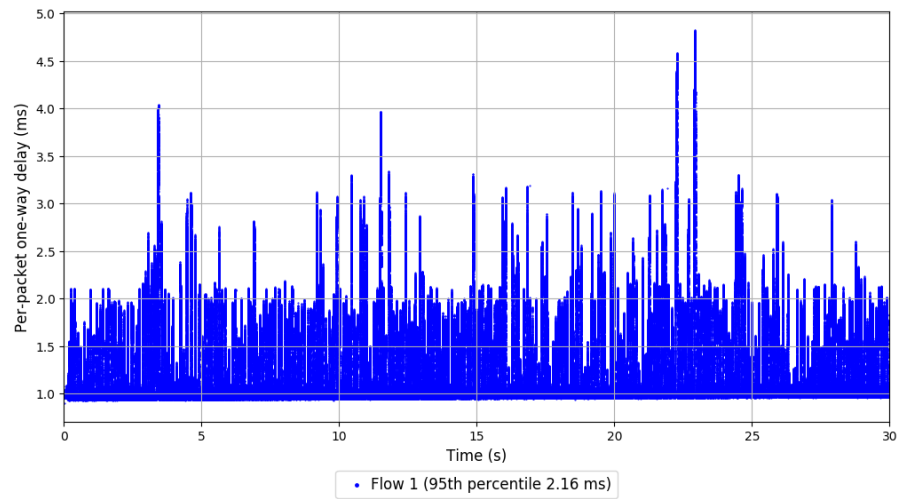
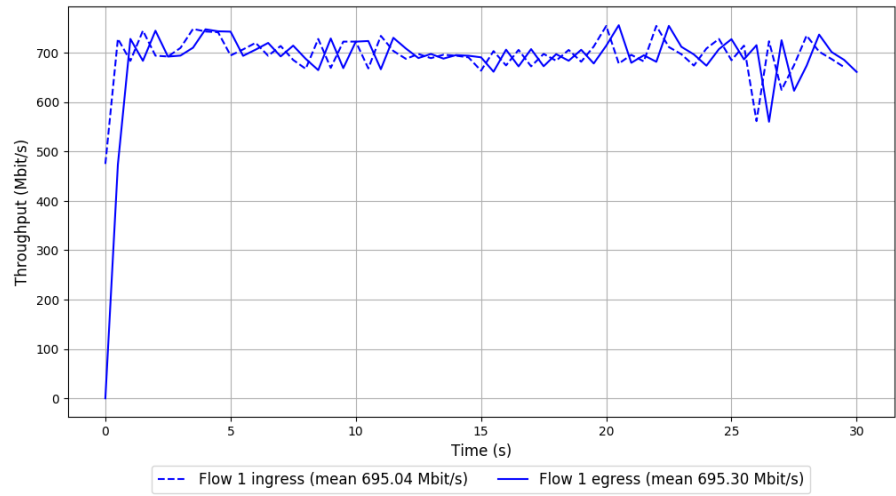
-- Flow 1:

Average throughput: 695.30 Mbit/s

95th percentile per-packet one-way delay: 2.161 ms

Loss rate: 0.03%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-30 09:24:05

End at: 2018-06-30 09:24:35

Local clock offset: 0.187 ms

Remote clock offset: -0.171 ms

Below is generated by plot.py at 2018-06-30 11:09:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 804.52 Mbit/s

95th percentile per-packet one-way delay: 11.912 ms

Loss rate: 0.09%

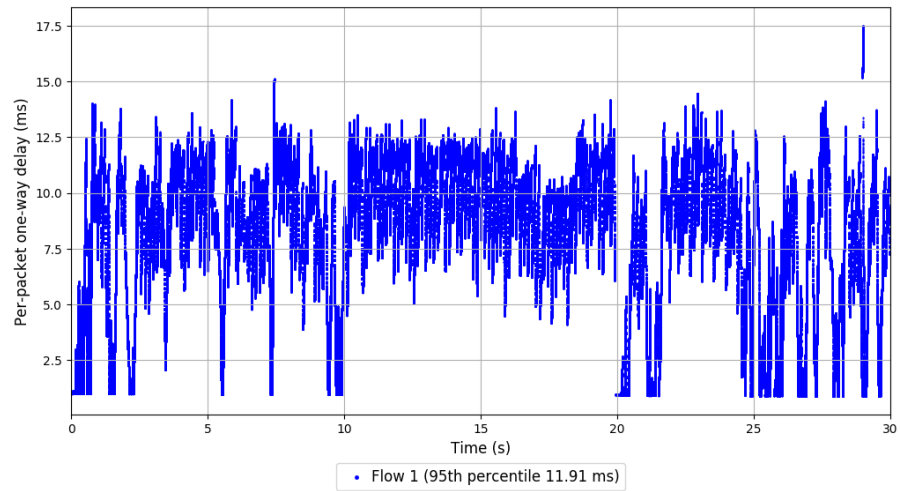
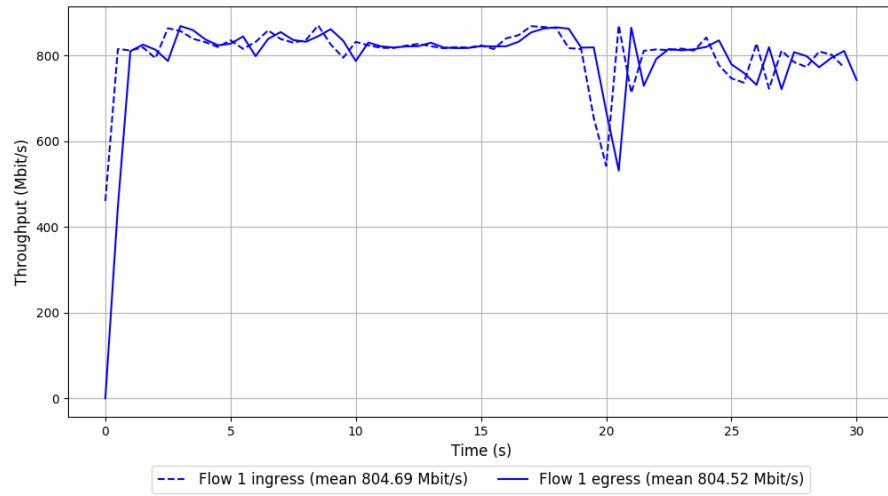
-- Flow 1:

Average throughput: 804.52 Mbit/s

95th percentile per-packet one-way delay: 11.912 ms

Loss rate: 0.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-30 09:49:30

End at: 2018-06-30 09:50:00

Local clock offset: 1.636 ms

Remote clock offset: -1.55 ms

Below is generated by plot.py at 2018-06-30 11:09:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.47 Mbit/s

95th percentile per-packet one-way delay: 8.852 ms

Loss rate: 0.02%

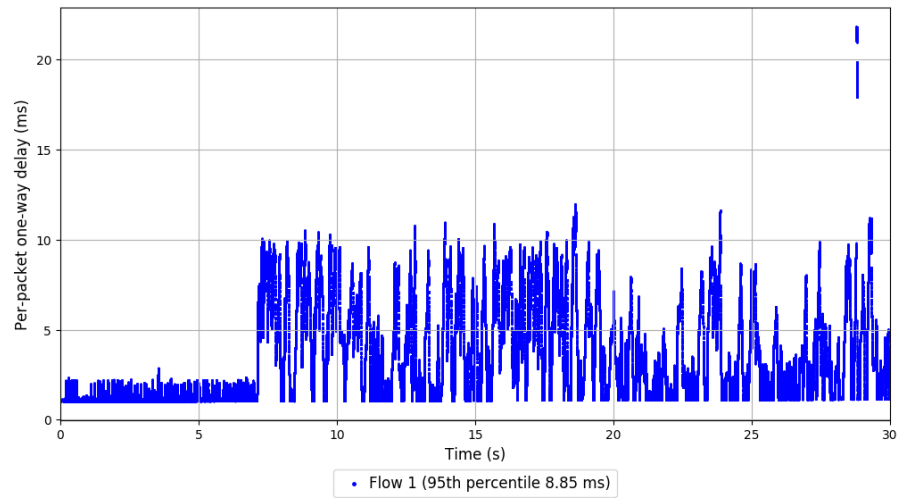
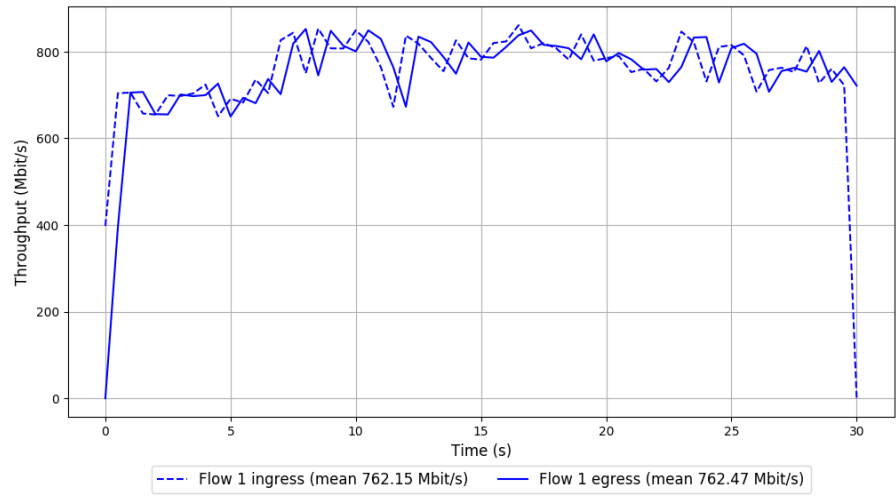
-- Flow 1:

Average throughput: 762.47 Mbit/s

95th percentile per-packet one-way delay: 8.852 ms

Loss rate: 0.02%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-30 10:15:01

End at: 2018-06-30 10:15:31

Local clock offset: 4.486 ms

Remote clock offset: 3.082 ms

Below is generated by plot.py at 2018-06-30 11:17:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 731.05 Mbit/s

95th percentile per-packet one-way delay: 6.795 ms

Loss rate: 0.08%

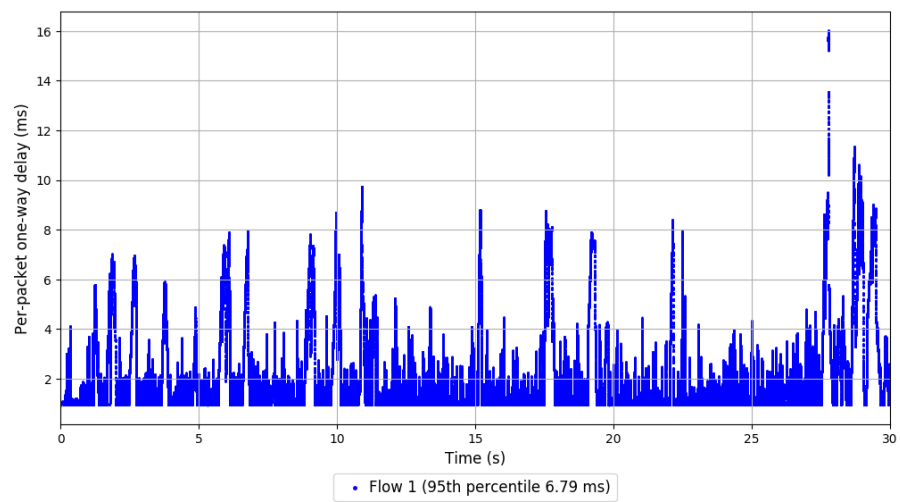
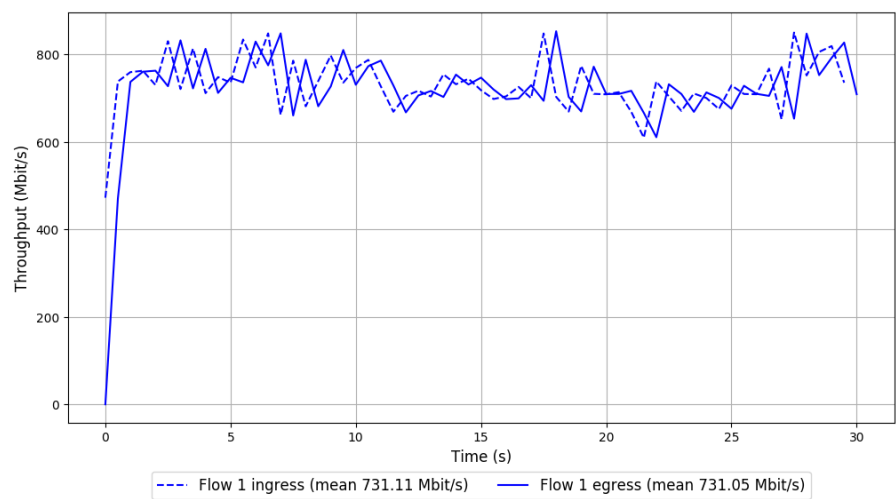
-- Flow 1:

Average throughput: 731.05 Mbit/s

95th percentile per-packet one-way delay: 6.795 ms

Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-30 10:40:38

End at: 2018-06-30 10:41:08

Local clock offset: 5.623 ms

Remote clock offset: -0.561 ms

Below is generated by plot.py at 2018-06-30 11:17:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 791.94 Mbit/s

95th percentile per-packet one-way delay: 8.269 ms

Loss rate: 0.01%

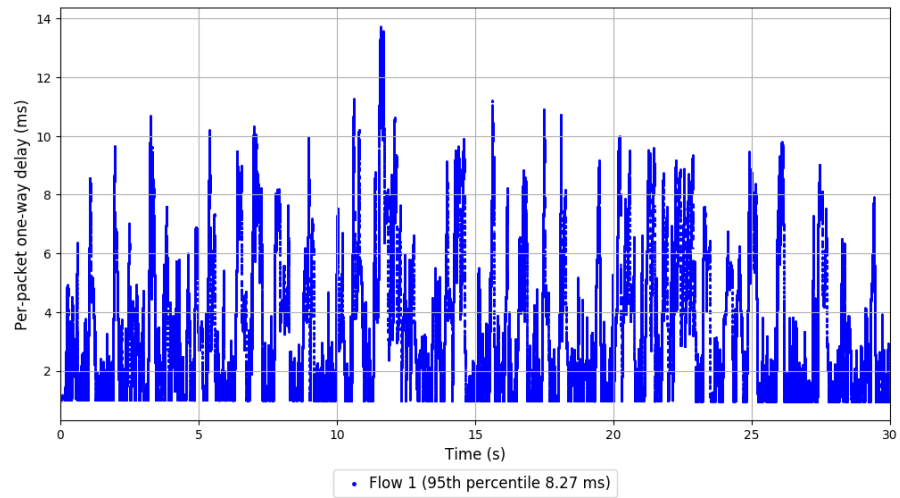
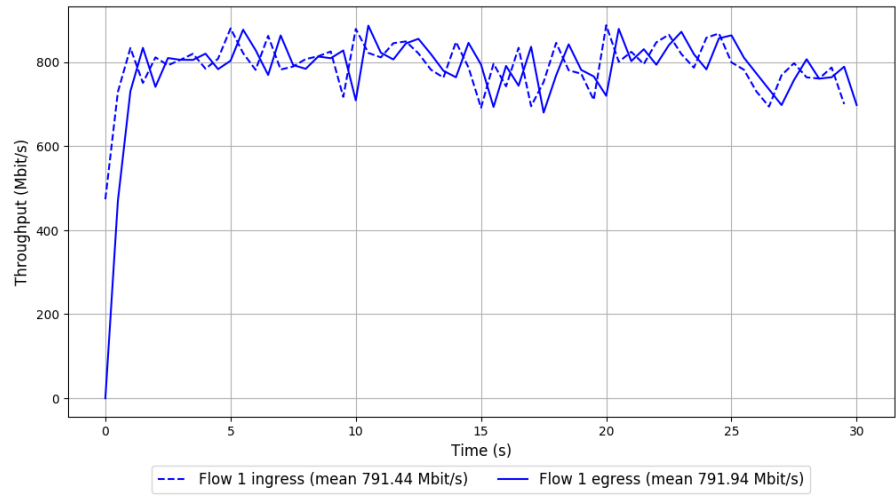
-- Flow 1:

Average throughput: 791.94 Mbit/s

95th percentile per-packet one-way delay: 8.269 ms

Loss rate: 0.01%

Run 10: Report of TCP BBR — Data Link

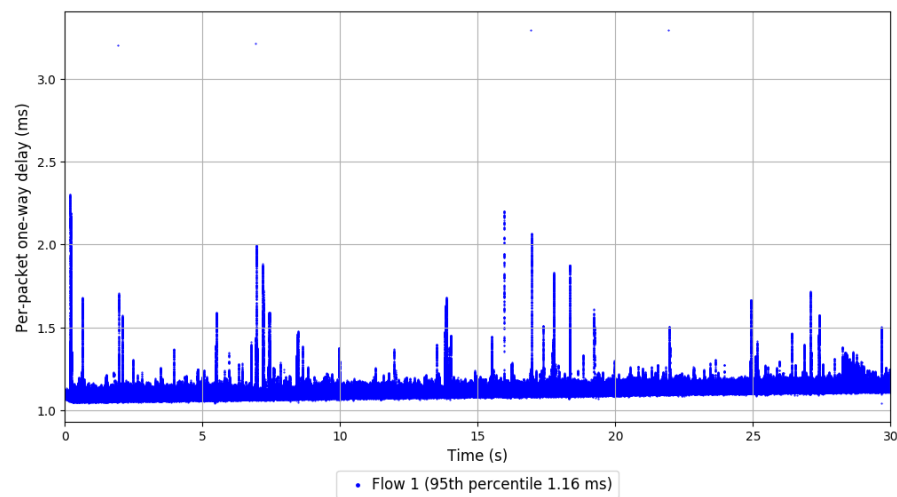
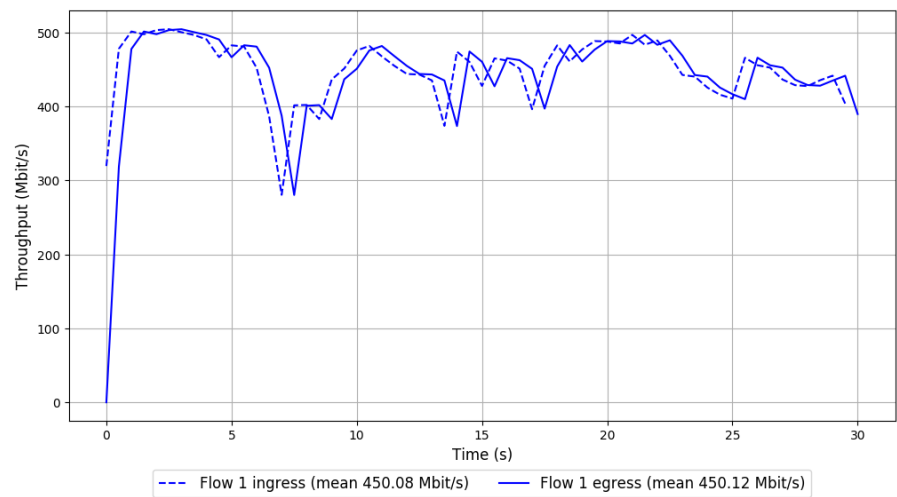


Run 1: Statistics of Copa

Start at: 2018-06-30 06:45:30
End at: 2018-06-30 06:46:00
Local clock offset: -0.098 ms
Remote clock offset: 10.867 ms

Below is generated by plot.py at 2018-06-30 11:18:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 450.12 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 450.12 Mbit/s
95th percentile per-packet one-way delay: 1.160 ms
Loss rate: 0.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-30 07:11:10

End at: 2018-06-30 07:11:40

Local clock offset: 0.126 ms

Remote clock offset: 1.067 ms

Below is generated by plot.py at 2018-06-30 11:18:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.66 Mbit/s

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

Loss rate: 0.06%

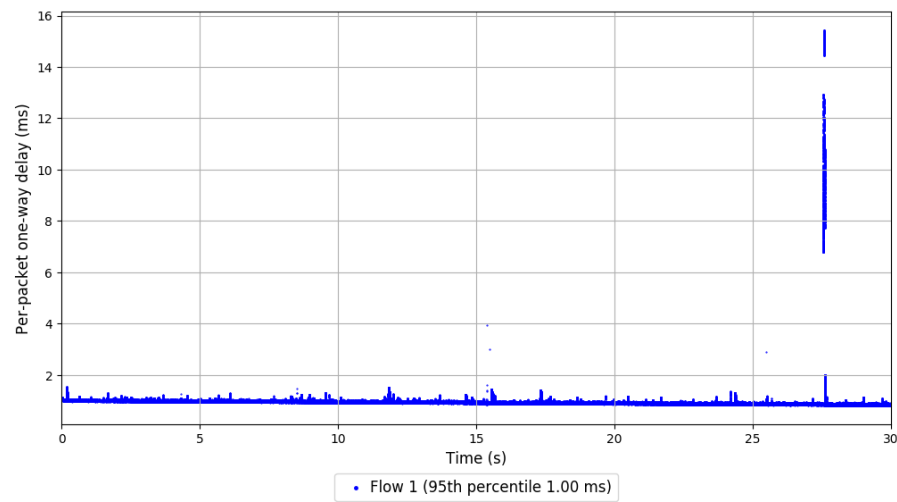
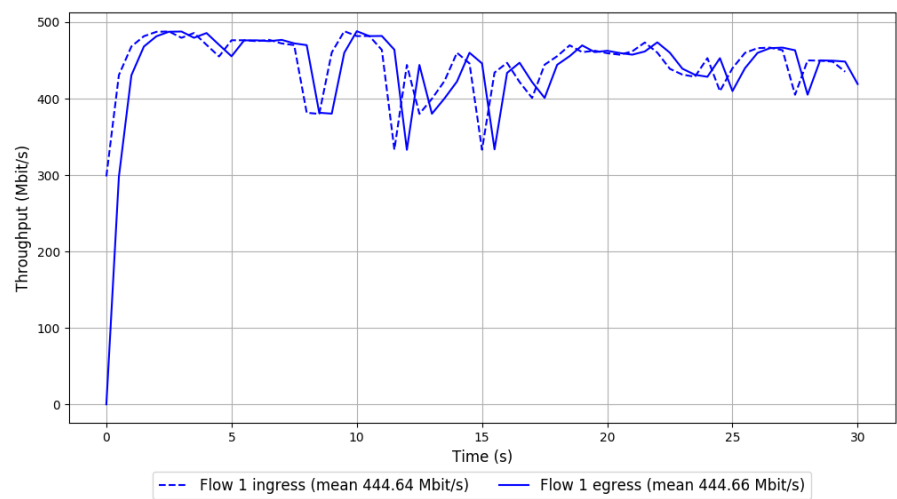
-- Flow 1:

Average throughput: 444.66 Mbit/s

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

Loss rate: 0.06%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-30 07:36:51

End at: 2018-06-30 07:37:22

Local clock offset: 3.321 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-06-30 11:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 470.95 Mbit/s

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

Loss rate: 0.08%

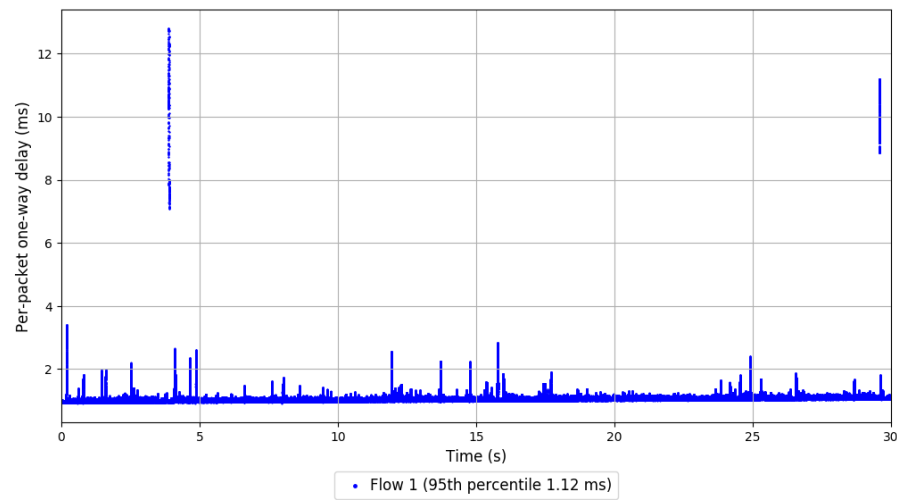
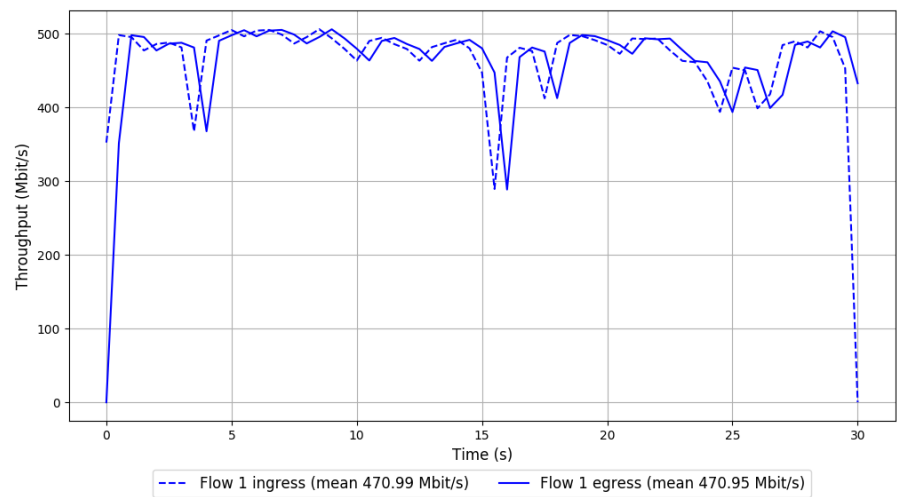
-- Flow 1:

Average throughput: 470.95 Mbit/s

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

Loss rate: 0.08%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-30 08:02:24

End at: 2018-06-30 08:02:54

Local clock offset: 3.482 ms

Remote clock offset: 2.666 ms

Below is generated by plot.py at 2018-06-30 11:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.68 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.05%

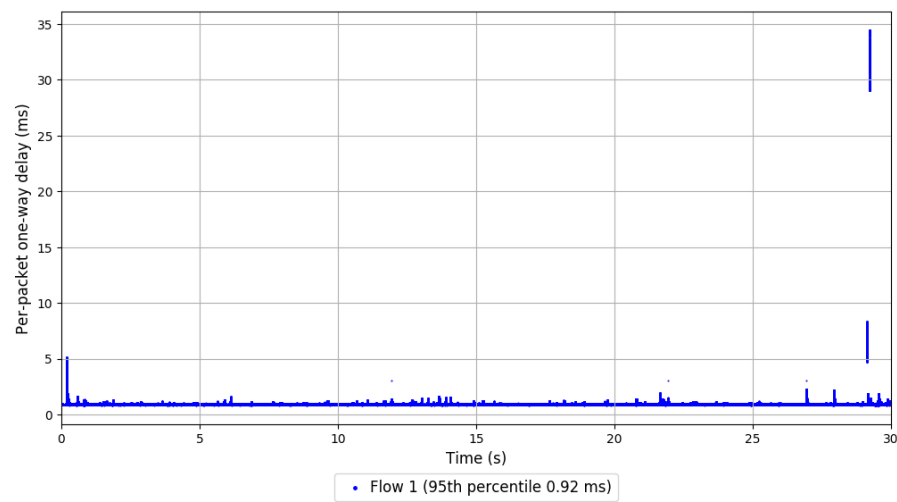
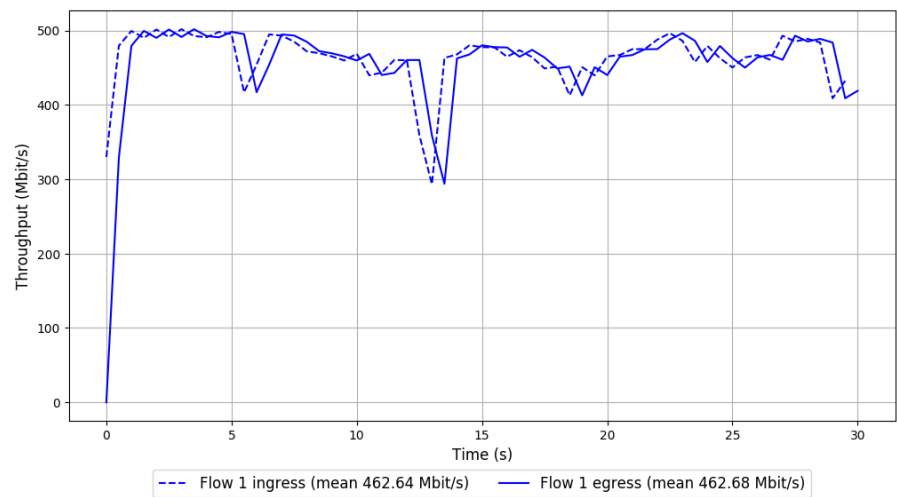
-- Flow 1:

Average throughput: 462.68 Mbit/s

95th percentile per-packet one-way delay: 0.923 ms

Loss rate: 0.05%

Run 4: Report of Copa — Data Link

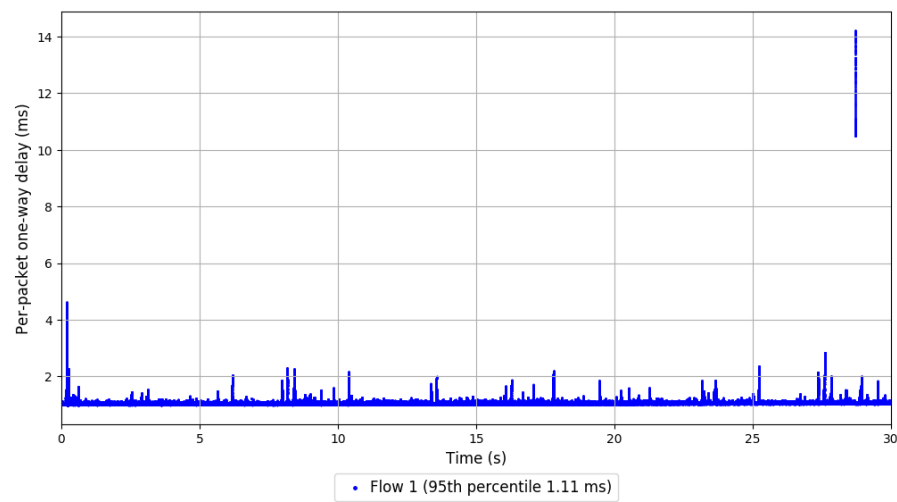
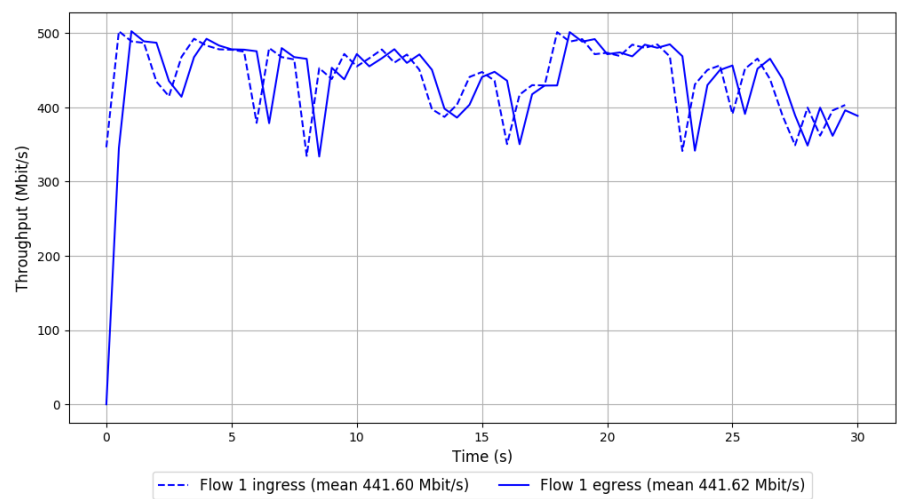


Run 5: Statistics of Copa

Start at: 2018-06-30 08:28:05
End at: 2018-06-30 08:28:35
Local clock offset: 0.451 ms
Remote clock offset: -0.696 ms

Below is generated by plot.py at 2018-06-30 11:18:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 441.62 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 441.62 Mbit/s
95th percentile per-packet one-way delay: 1.107 ms
Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-30 08:53:43

End at: 2018-06-30 08:54:13

Local clock offset: -0.32 ms

Remote clock offset: 2.394 ms

Below is generated by plot.py at 2018-06-30 11:18:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 448.23 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.07%

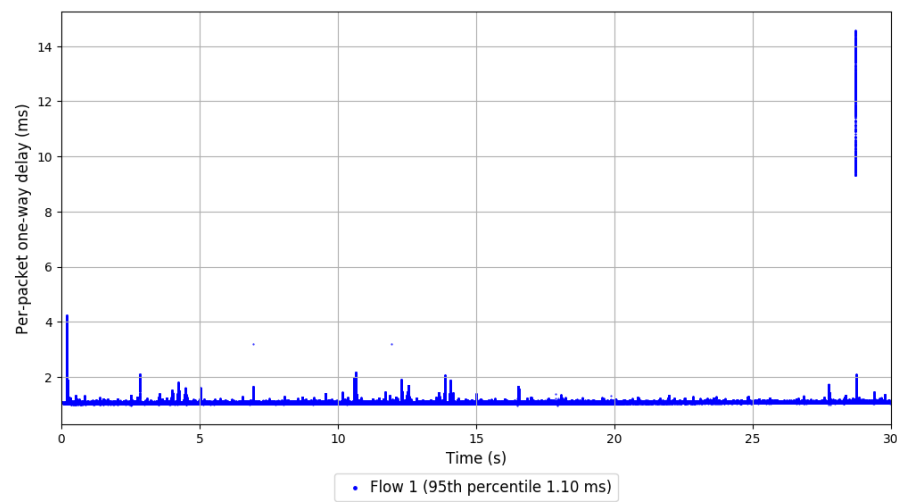
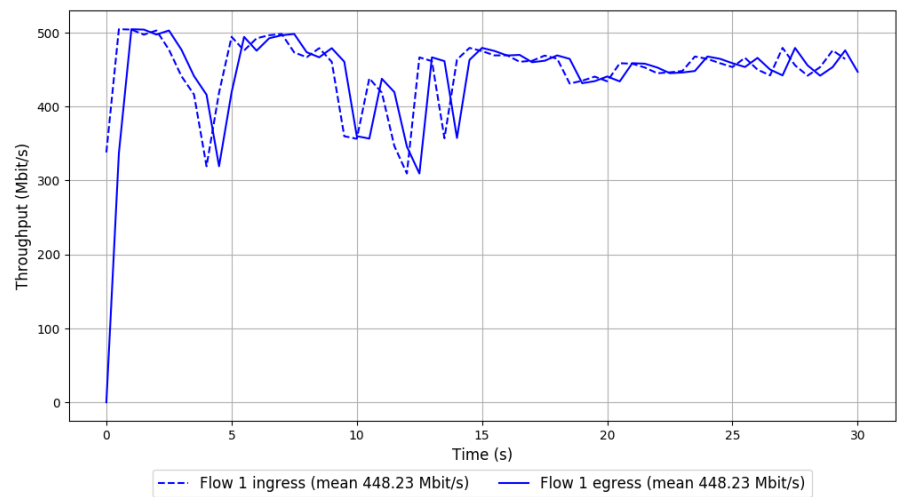
-- Flow 1:

Average throughput: 448.23 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.07%

Run 6: Report of Copa — Data Link

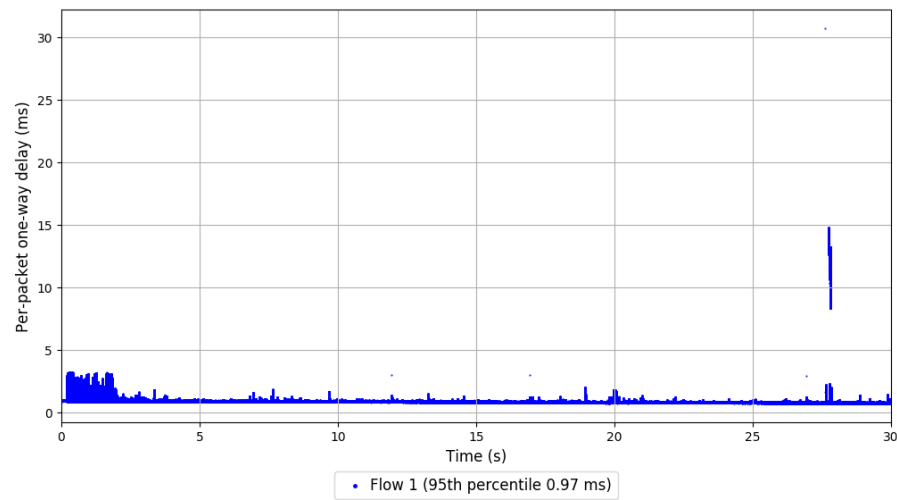
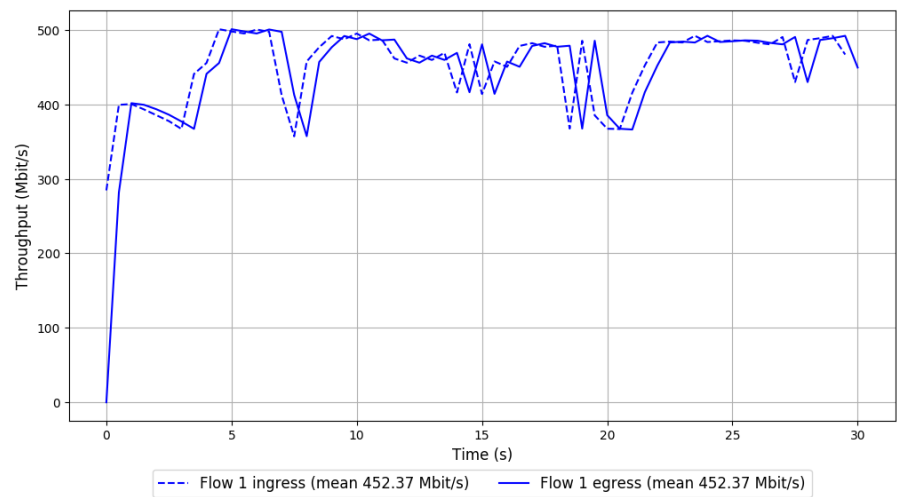


Run 7: Statistics of Copa

Start at: 2018-06-30 09:19:12
End at: 2018-06-30 09:19:42
Local clock offset: -0.094 ms
Remote clock offset: 1.02 ms

Below is generated by plot.py at 2018-06-30 11:26:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 452.37 Mbit/s
95th percentile per-packet one-way delay: 0.970 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 452.37 Mbit/s
95th percentile per-packet one-way delay: 0.970 ms
Loss rate: 0.07%

Run 7: Report of Copa — Data Link

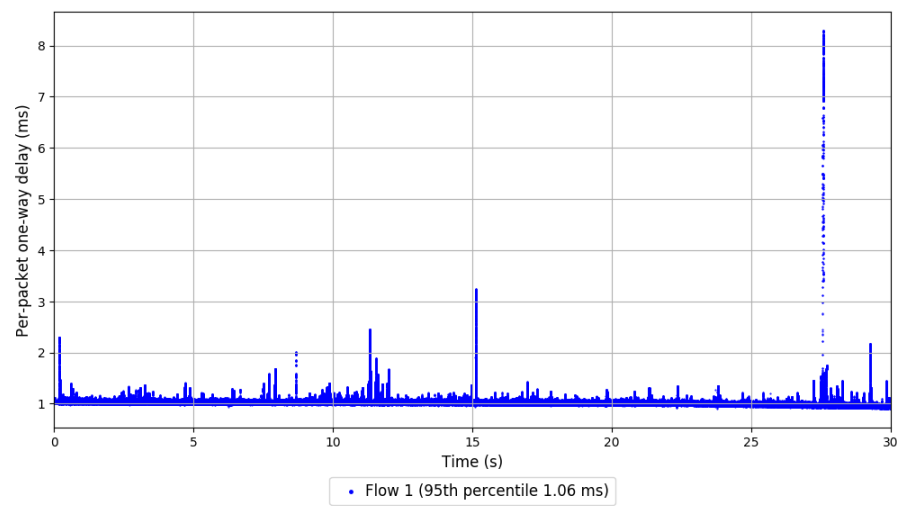
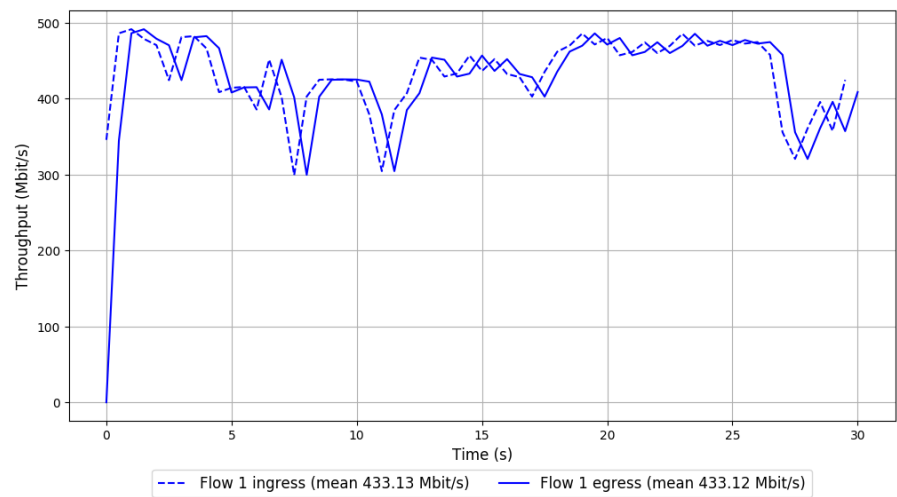


Run 8: Statistics of Copa

Start at: 2018-06-30 09:44:37
End at: 2018-06-30 09:45:07
Local clock offset: 0.397 ms
Remote clock offset: -2.525 ms

Below is generated by plot.py at 2018-06-30 11:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 433.12 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 433.12 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.07%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-30 10:10:07

End at: 2018-06-30 10:10:37

Local clock offset: 4.114 ms

Remote clock offset: 2.754 ms

Below is generated by plot.py at 2018-06-30 11:27:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 456.05 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.07%

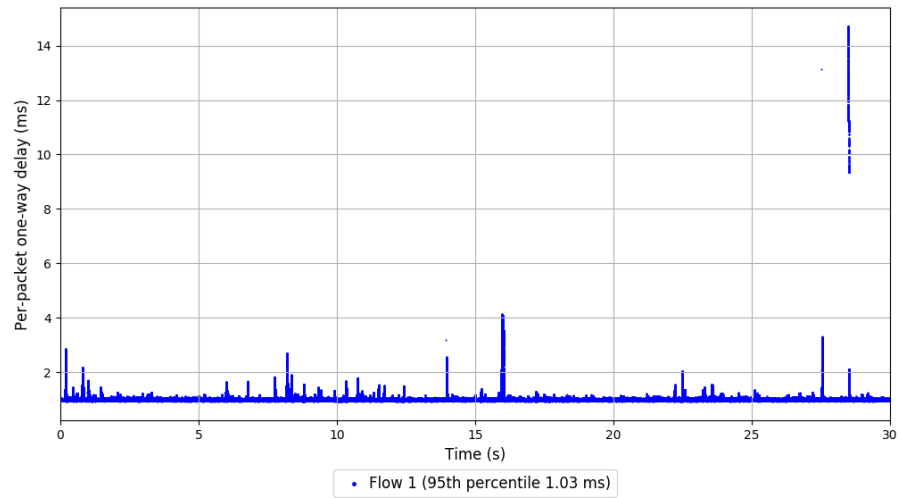
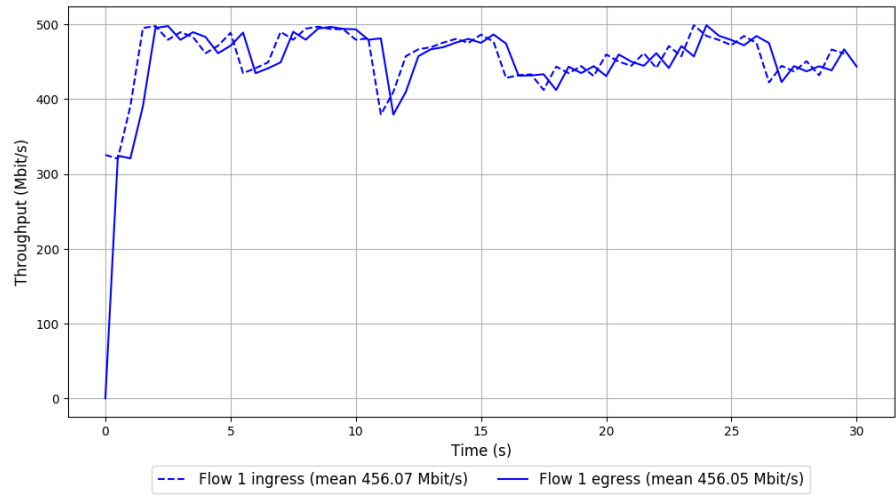
-- Flow 1:

Average throughput: 456.05 Mbit/s

95th percentile per-packet one-way delay: 1.028 ms

Loss rate: 0.07%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-06-30 10:35:42

End at: 2018-06-30 10:36:12

Local clock offset: 5.402 ms

Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-30 11:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.38 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.07%

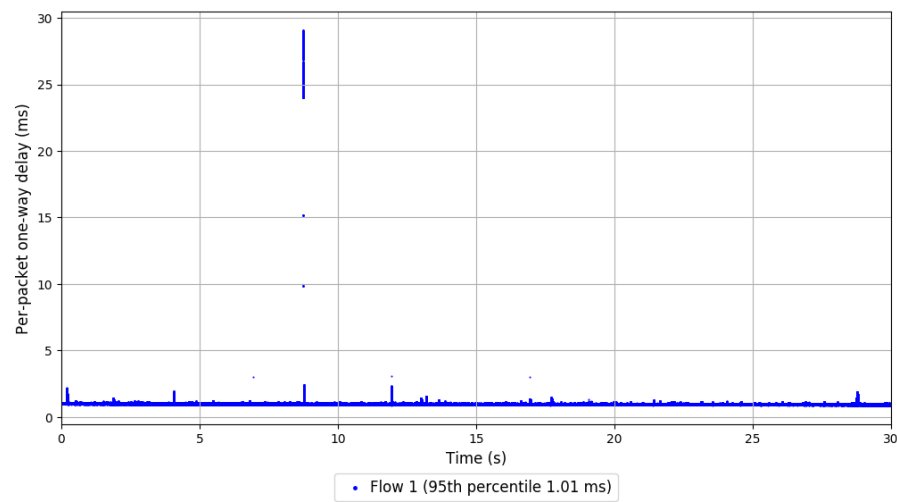
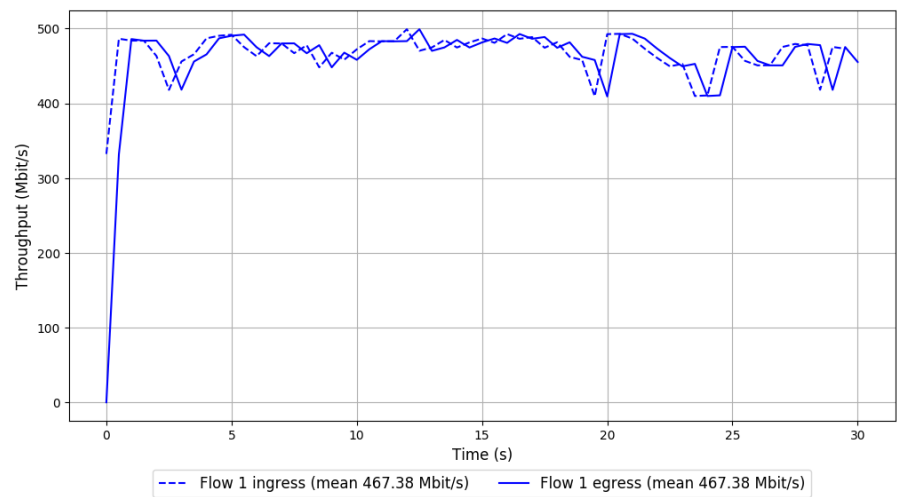
-- Flow 1:

Average throughput: 467.38 Mbit/s

95th percentile per-packet one-way delay: 1.009 ms

Loss rate: 0.07%

Run 10: Report of Copa — Data Link

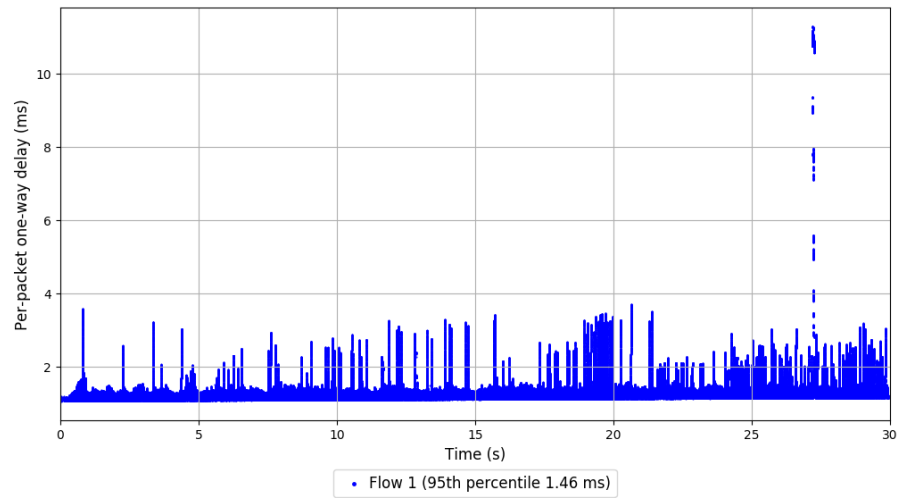
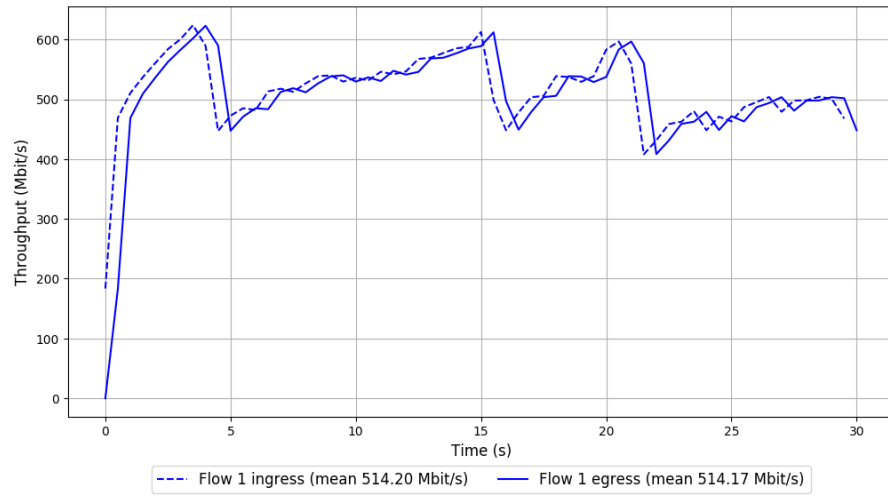


Run 1: Statistics of TCP Cubic

Start at: 2018-06-30 06:42:33
End at: 2018-06-30 06:43:03
Local clock offset: -0.056 ms
Remote clock offset: 10.418 ms

Below is generated by plot.py at 2018-06-30 11:27:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 514.17 Mbit/s
95th percentile per-packet one-way delay: 1.460 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 514.17 Mbit/s
95th percentile per-packet one-way delay: 1.460 ms
Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-30 07:08:12

End at: 2018-06-30 07:08:42

Local clock offset: 0.142 ms

Remote clock offset: 2.304 ms

Below is generated by plot.py at 2018-06-30 11:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 505.91 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.08%

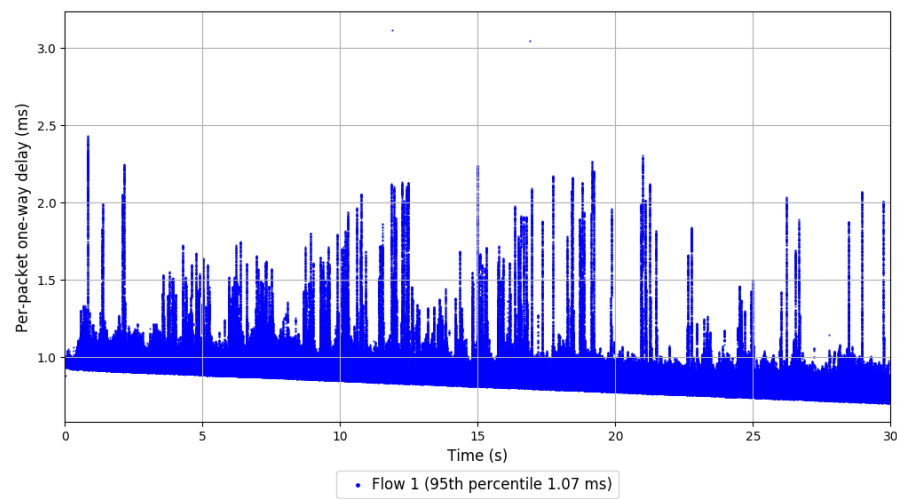
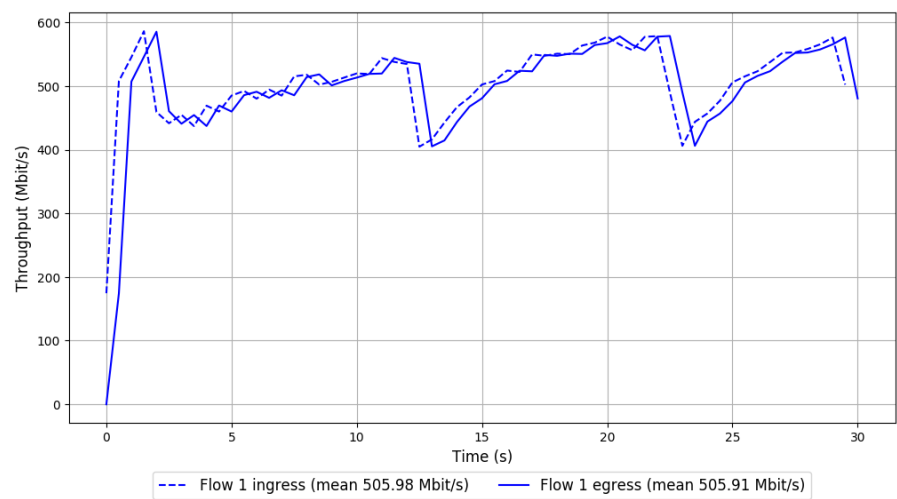
-- Flow 1:

Average throughput: 505.91 Mbit/s

95th percentile per-packet one-way delay: 1.068 ms

Loss rate: 0.08%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-30 07:33:54

End at: 2018-06-30 07:34:24

Local clock offset: 3.219 ms

Remote clock offset: -0.9 ms

Below is generated by plot.py at 2018-06-30 11:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.49 Mbit/s

95th percentile per-packet one-way delay: 1.393 ms

Loss rate: 0.08%

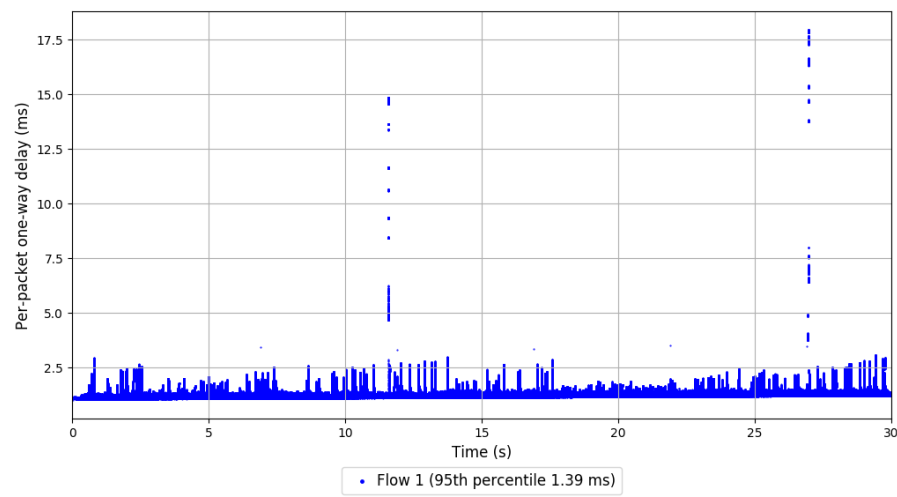
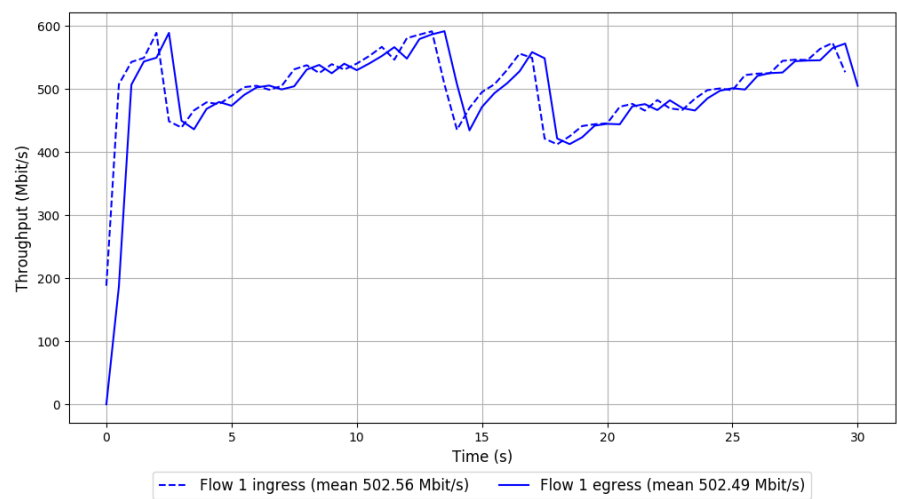
-- Flow 1:

Average throughput: 502.49 Mbit/s

95th percentile per-packet one-way delay: 1.393 ms

Loss rate: 0.08%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-30 07:59:26

End at: 2018-06-30 07:59:56

Local clock offset: 3.545 ms

Remote clock offset: 2.518 ms

Below is generated by plot.py at 2018-06-30 11:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 506.26 Mbit/s

95th percentile per-packet one-way delay: 1.392 ms

Loss rate: 0.07%

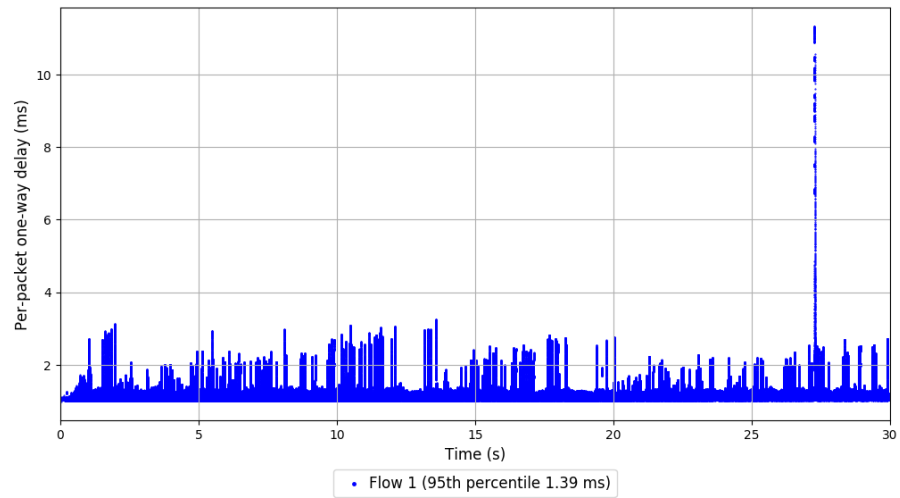
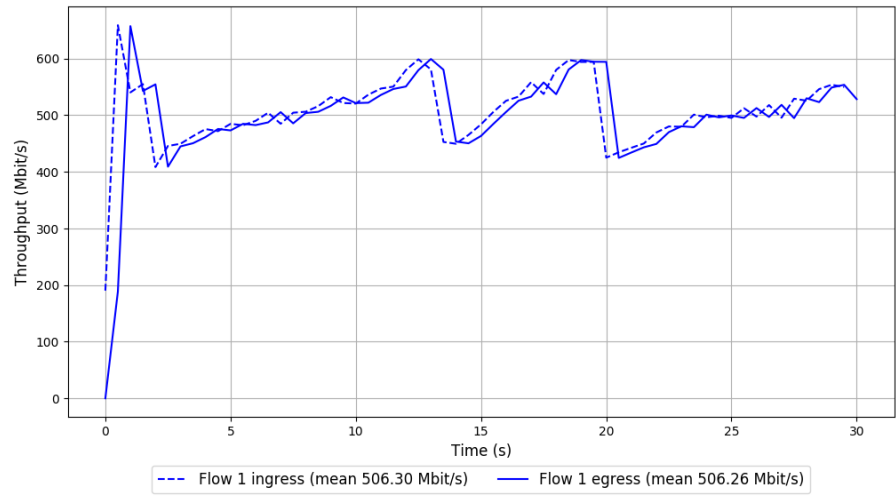
-- Flow 1:

Average throughput: 506.26 Mbit/s

95th percentile per-packet one-way delay: 1.392 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-30 08:25:07

End at: 2018-06-30 08:25:37

Local clock offset: 0.894 ms

Remote clock offset: -0.51 ms

Below is generated by plot.py at 2018-06-30 11:29:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 503.36 Mbit/s

95th percentile per-packet one-way delay: 1.582 ms

Loss rate: 0.07%

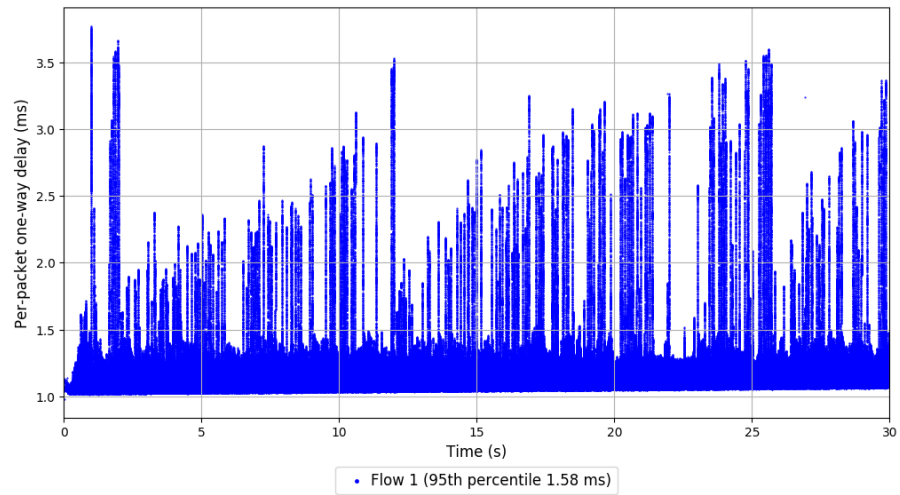
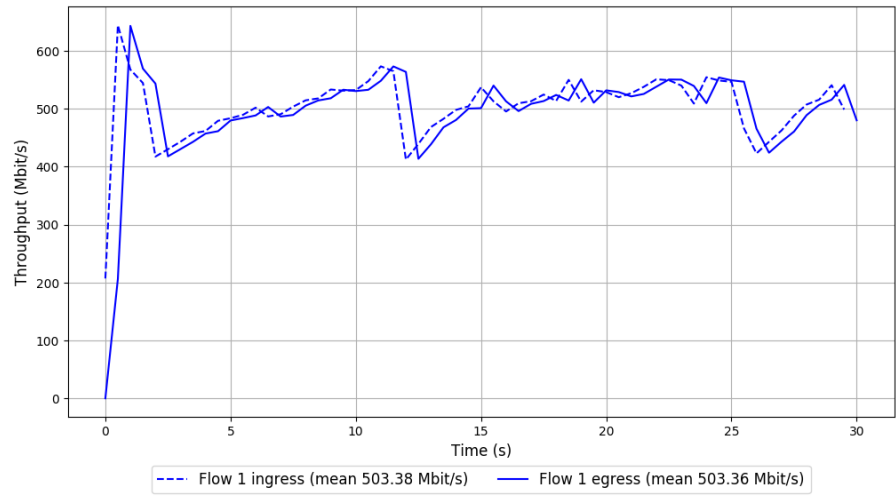
-- Flow 1:

Average throughput: 503.36 Mbit/s

95th percentile per-packet one-way delay: 1.582 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-30 08:50:45

End at: 2018-06-30 08:51:15

Local clock offset: -0.512 ms

Remote clock offset: 2.019 ms

Below is generated by plot.py at 2018-06-30 11:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 494.48 Mbit/s

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

Loss rate: 0.06%

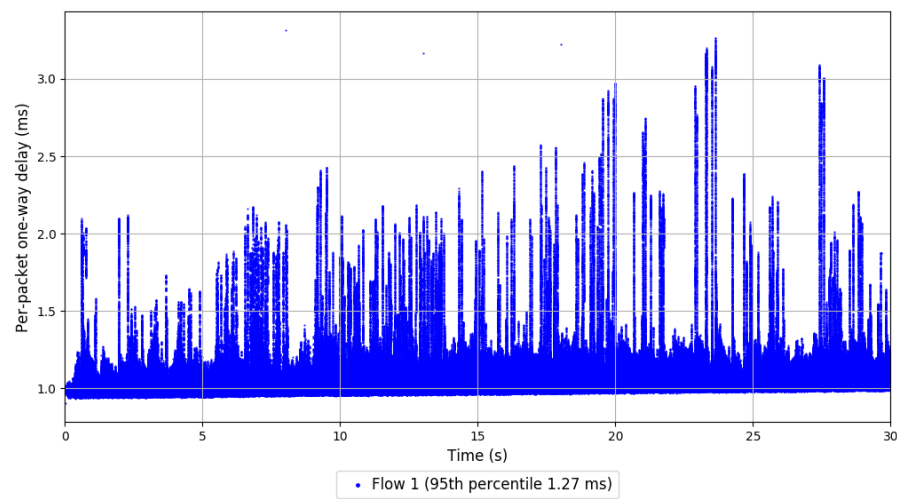
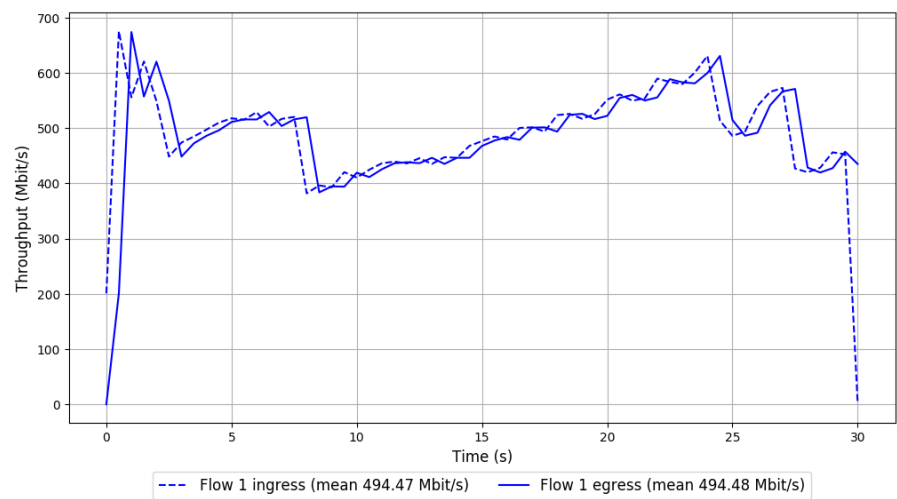
-- Flow 1:

Average throughput: 494.48 Mbit/s

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

Loss rate: 0.06%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-30 09:16:14

End at: 2018-06-30 09:16:44

Local clock offset: -0.328 ms

Remote clock offset: 2.114 ms

Below is generated by plot.py at 2018-06-30 11:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 474.69 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.06%

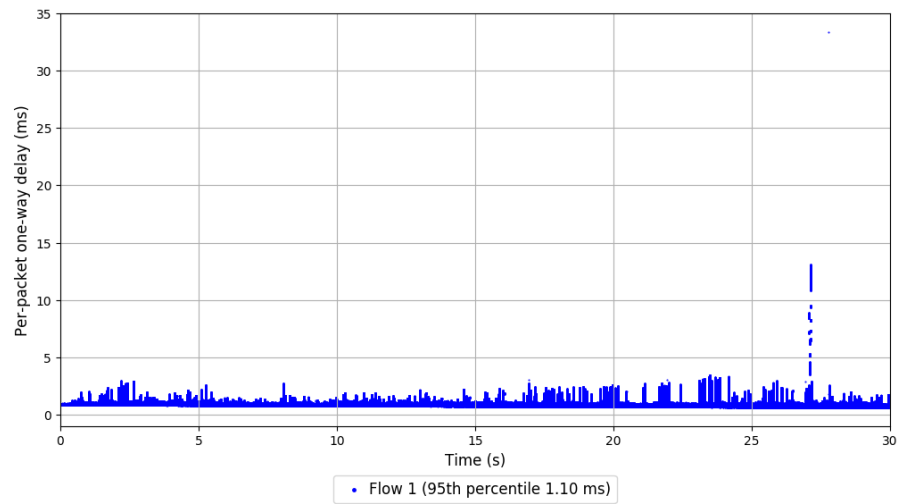
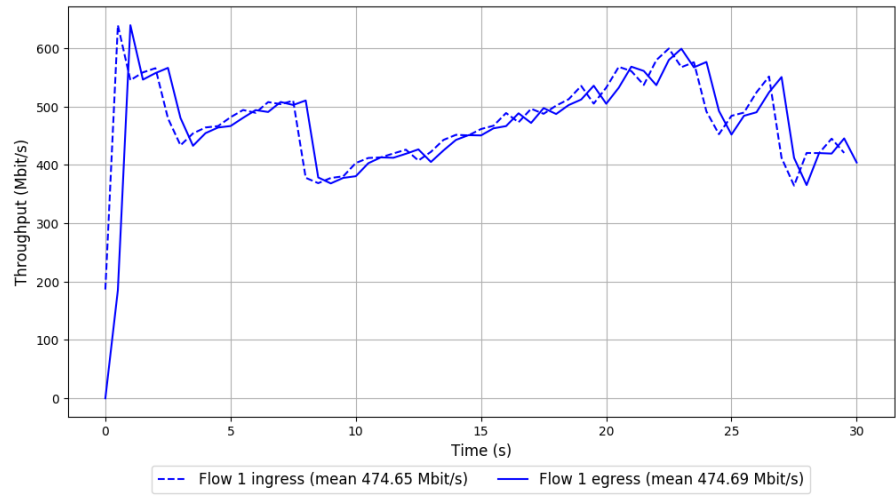
-- Flow 1:

Average throughput: 474.69 Mbit/s

95th percentile per-packet one-way delay: 1.102 ms

Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link

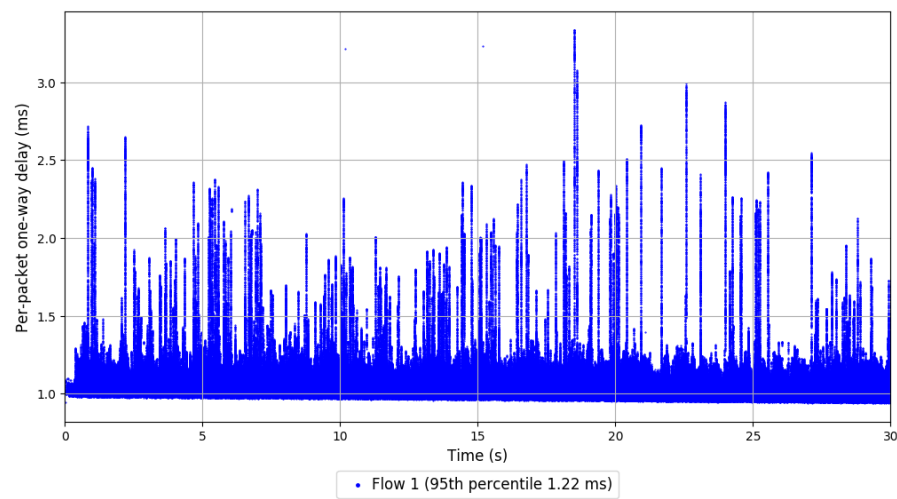
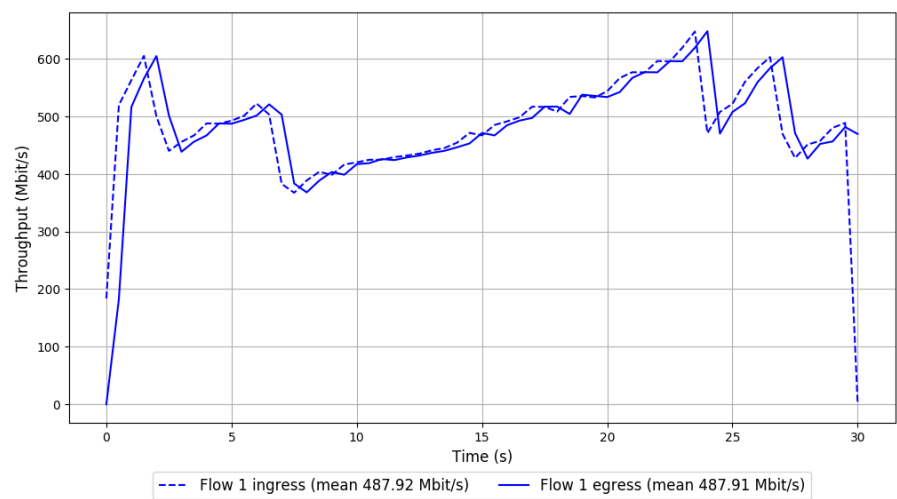


Run 8: Statistics of TCP Cubic

Start at: 2018-06-30 09:41:40
End at: 2018-06-30 09:42:10
Local clock offset: 0.398 ms
Remote clock offset: -2.262 ms

Below is generated by plot.py at 2018-06-30 11:29:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 487.91 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 487.91 Mbit/s
95th percentile per-packet one-way delay: 1.223 ms
Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-30 10:07:09

End at: 2018-06-30 10:07:39

Local clock offset: 3.929 ms

Remote clock offset: 2.606 ms

Below is generated by plot.py at 2018-06-30 11:31:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.53 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.06%

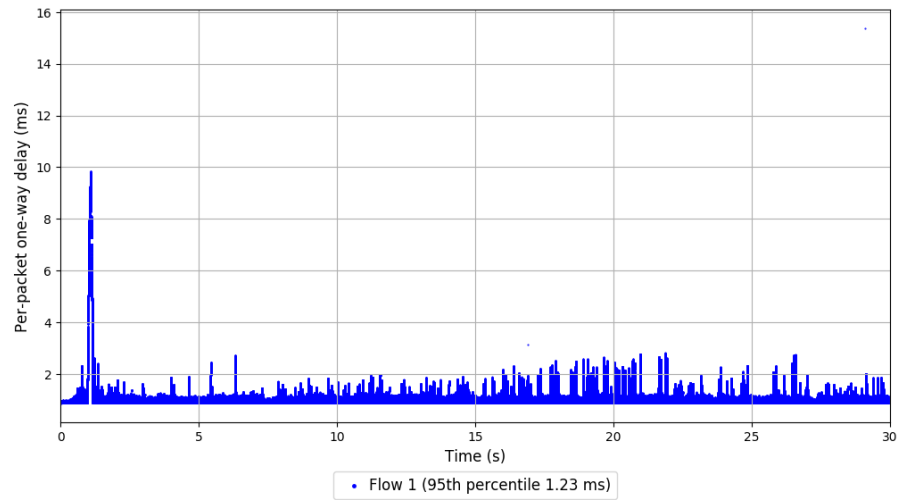
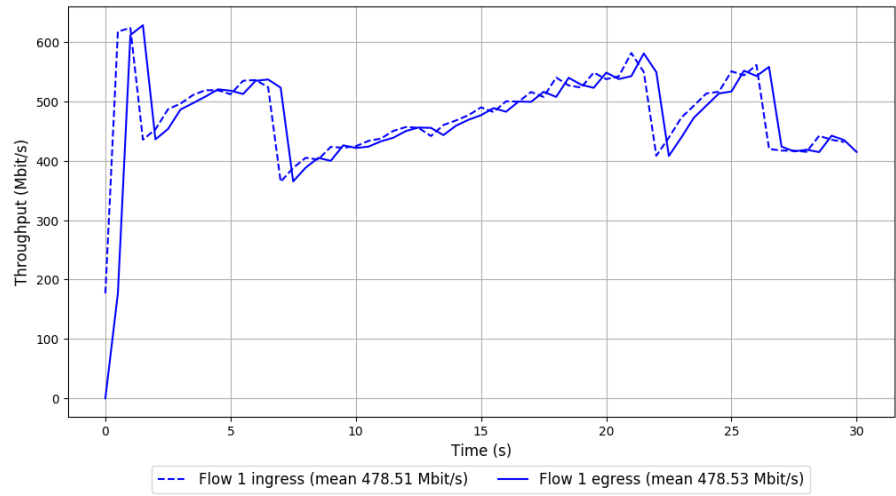
-- Flow 1:

Average throughput: 478.53 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-30 10:32:44

End at: 2018-06-30 10:33:14

Local clock offset: 5.281 ms

Remote clock offset: 0.273 ms

Below is generated by plot.py at 2018-06-30 11:31:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 489.90 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.08%

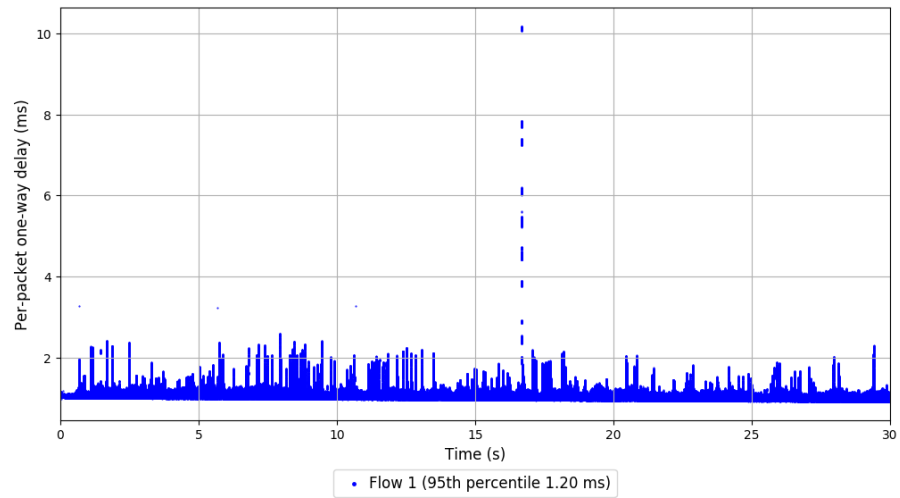
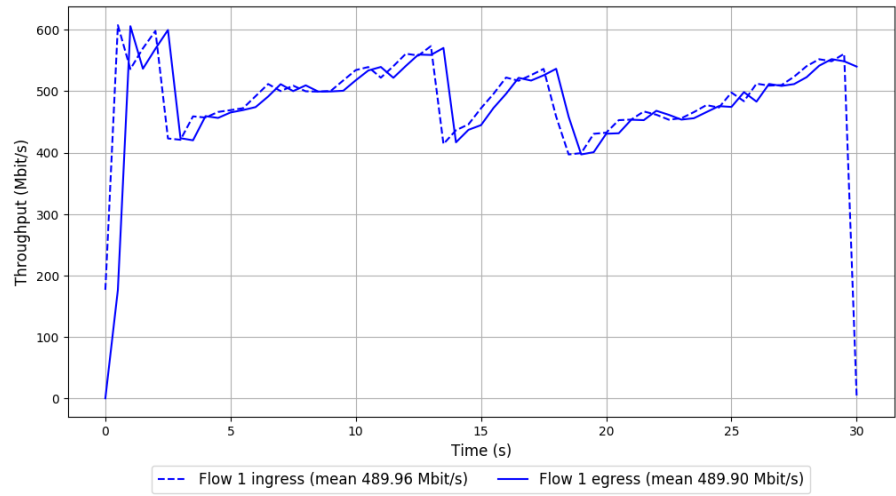
-- Flow 1:

Average throughput: 489.90 Mbit/s

95th percentile per-packet one-way delay: 1.200 ms

Loss rate: 0.08%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-30 06:35:06

End at: 2018-06-30 06:35:36

Local clock offset: 0.017 ms

Remote clock offset: 9.205 ms

Below is generated by plot.py at 2018-06-30 11:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 932.01 Mbit/s

95th percentile per-packet one-way delay: 1.917 ms

Loss rate: 0.07%

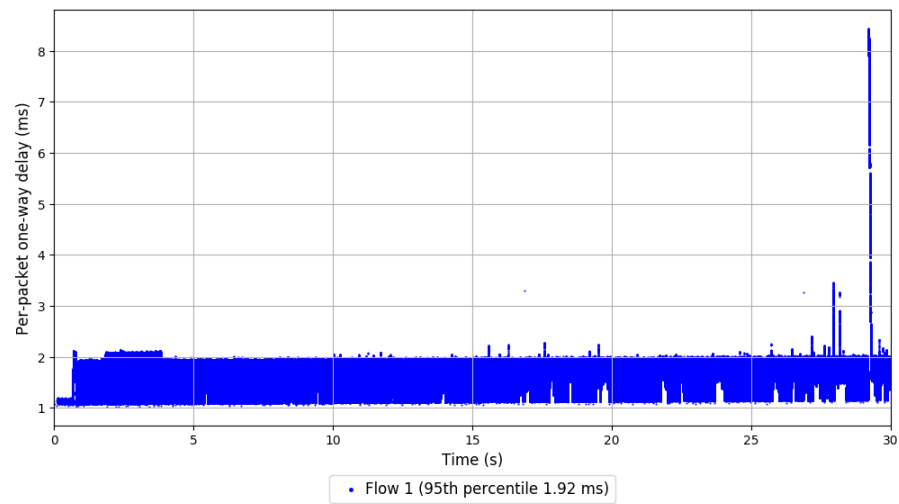
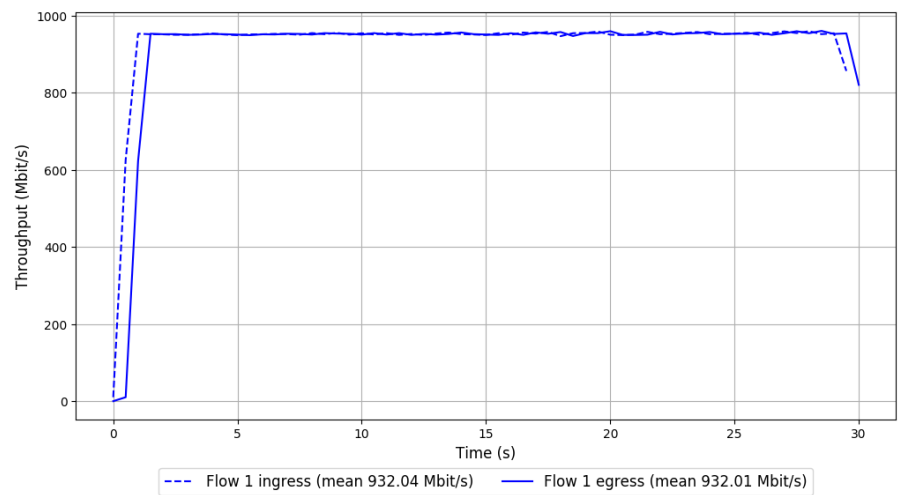
-- Flow 1:

Average throughput: 932.01 Mbit/s

95th percentile per-packet one-way delay: 1.917 ms

Loss rate: 0.07%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-30 07:00:46

End at: 2018-06-30 07:01:16

Local clock offset: 0.066 ms

Remote clock offset: 7.55 ms

Below is generated by plot.py at 2018-06-30 11:40:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 824.60 Mbit/s

95th percentile per-packet one-way delay: 37.359 ms

Loss rate: 2.97%

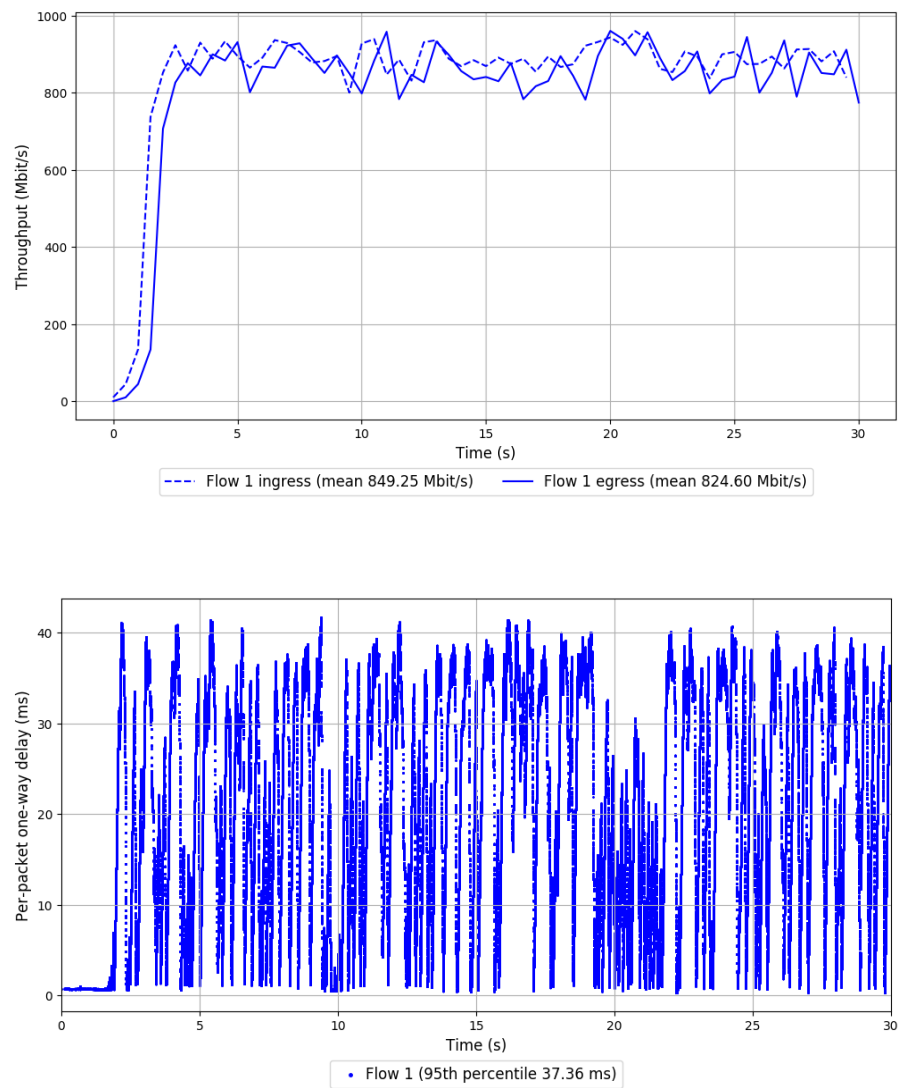
-- Flow 1:

Average throughput: 824.60 Mbit/s

95th percentile per-packet one-way delay: 37.359 ms

Loss rate: 2.97%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-30 07:26:23

End at: 2018-06-30 07:26:53

Local clock offset: 2.473 ms

Remote clock offset: -2.005 ms

Below is generated by plot.py at 2018-06-30 11:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 930.91 Mbit/s

95th percentile per-packet one-way delay: 1.683 ms

Loss rate: 0.06%

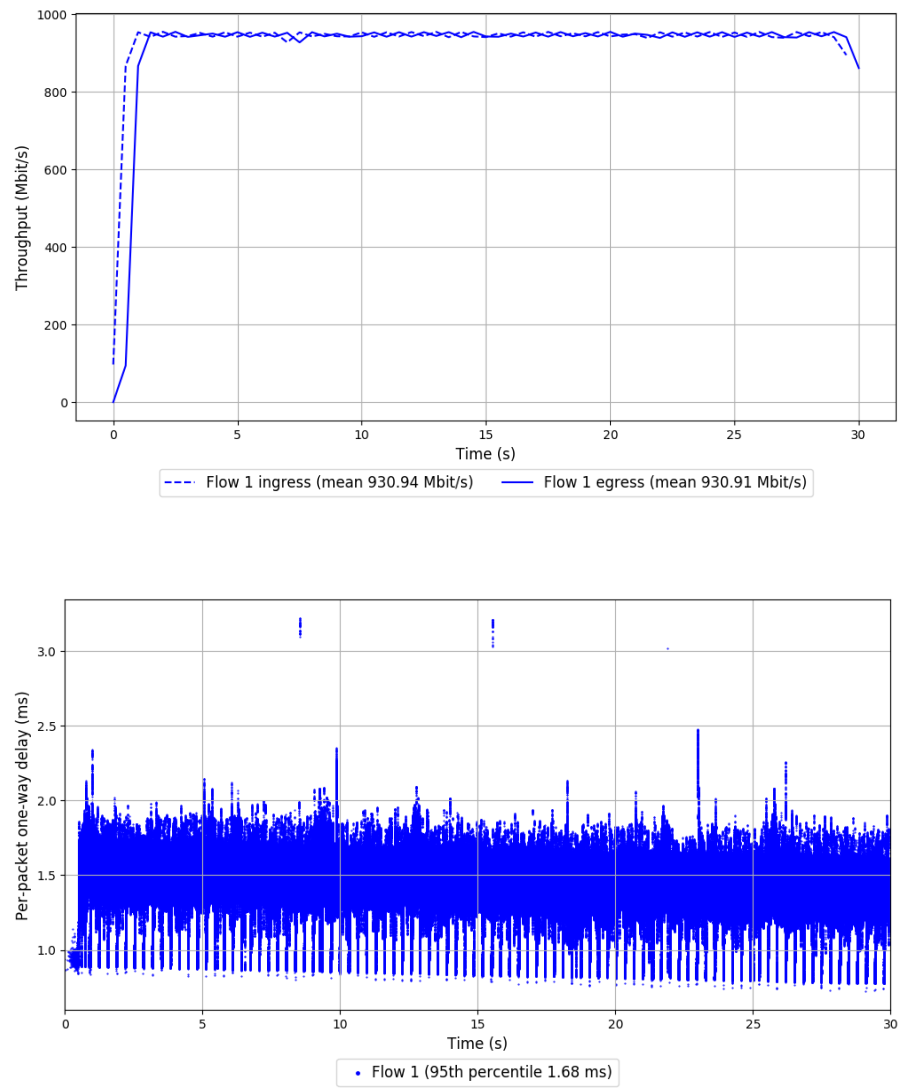
-- Flow 1:

Average throughput: 930.91 Mbit/s

95th percentile per-packet one-way delay: 1.683 ms

Loss rate: 0.06%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-30 07:52:01

End at: 2018-06-30 07:52:31

Local clock offset: 3.522 ms

Remote clock offset: 2.323 ms

Below is generated by plot.py at 2018-06-30 11:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.43 Mbit/s

95th percentile per-packet one-way delay: 1.726 ms

Loss rate: 0.07%

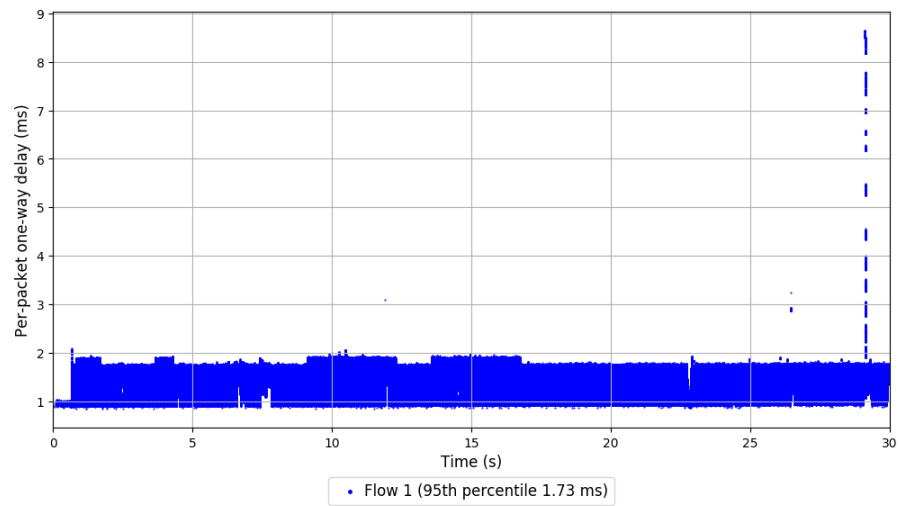
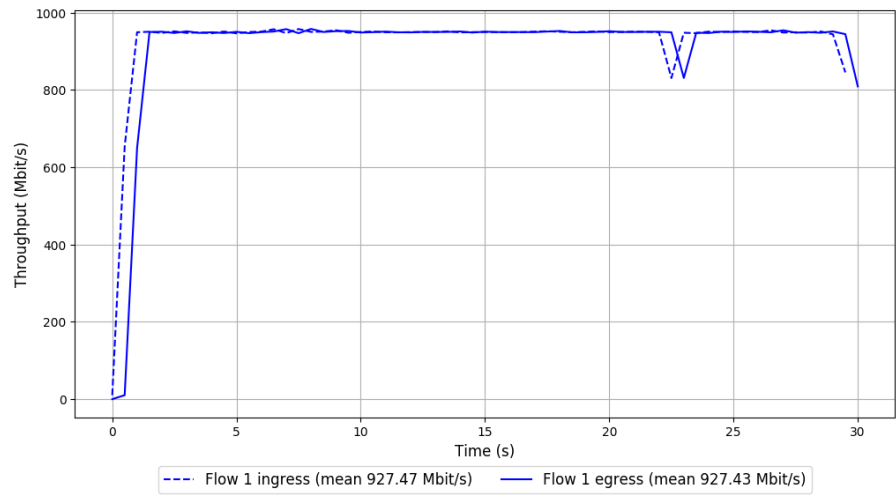
-- Flow 1:

Average throughput: 927.43 Mbit/s

95th percentile per-packet one-way delay: 1.726 ms

Loss rate: 0.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-30 08:17:39

End at: 2018-06-30 08:18:10

Local clock offset: 2.931 ms

Remote clock offset: 0.094 ms

Below is generated by plot.py at 2018-06-30 11:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 910.72 Mbit/s

95th percentile per-packet one-way delay: 2.251 ms

Loss rate: 0.07%

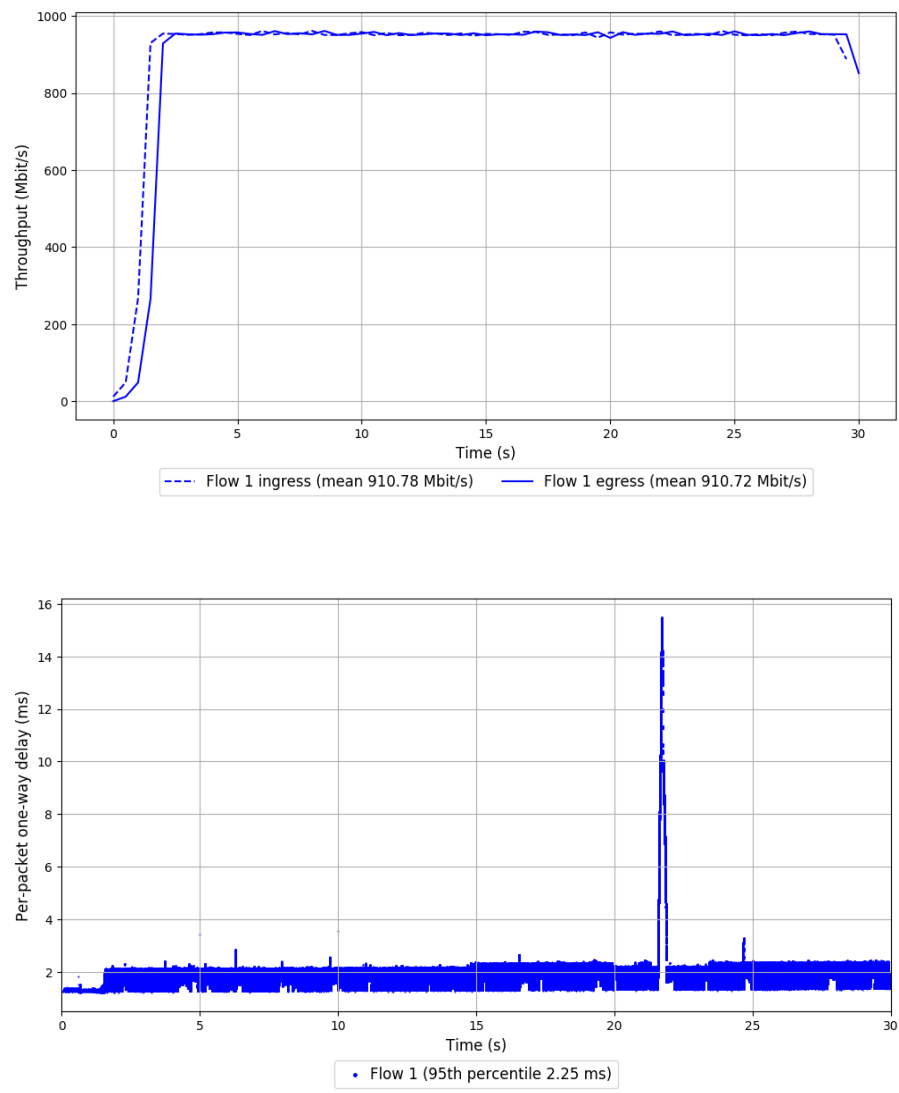
-- Flow 1:

Average throughput: 910.72 Mbit/s

95th percentile per-packet one-way delay: 2.251 ms

Loss rate: 0.07%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-30 08:43:16

End at: 2018-06-30 08:43:46

Local clock offset: -0.648 ms

Remote clock offset: 0.429 ms

Below is generated by plot.py at 2018-06-30 11:42:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 859.17 Mbit/s

95th percentile per-packet one-way delay: 37.707 ms

Loss rate: 2.54%

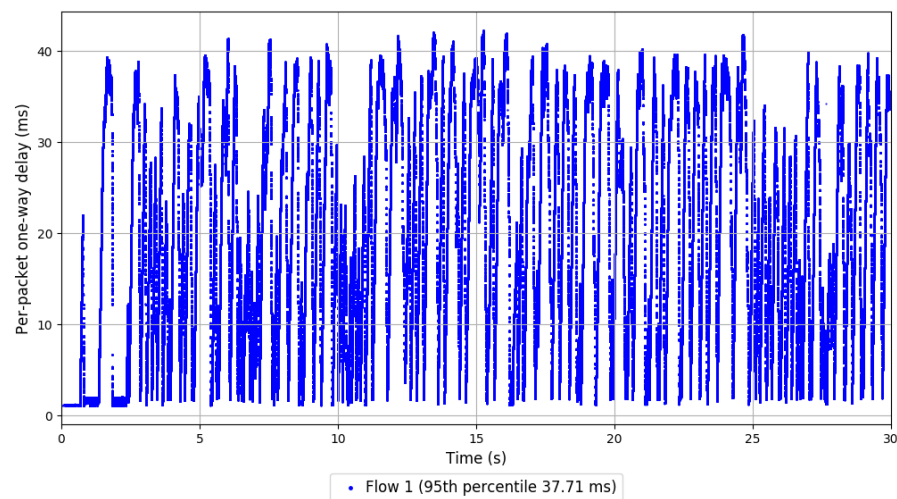
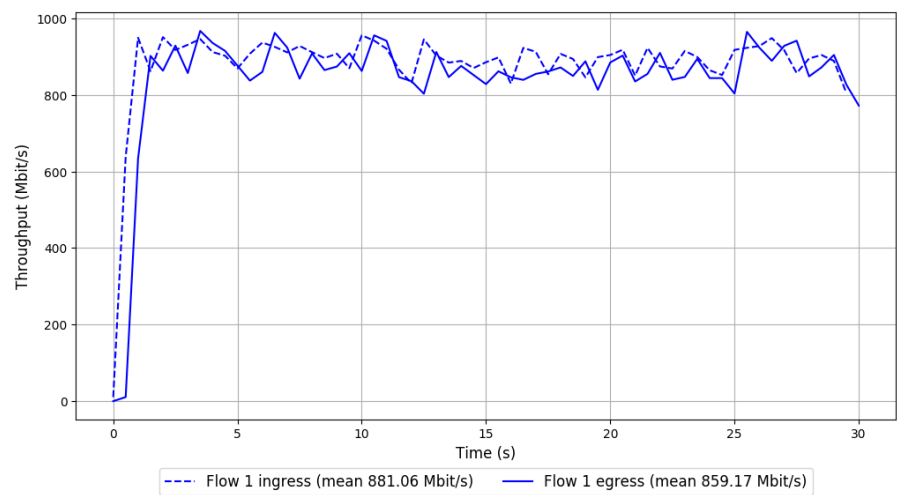
-- Flow 1:

Average throughput: 859.17 Mbit/s

95th percentile per-packet one-way delay: 37.707 ms

Loss rate: 2.54%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-30 09:08:51

End at: 2018-06-30 09:09:21

Local clock offset: -0.305 ms

Remote clock offset: 3.283 ms

Below is generated by plot.py at 2018-06-30 11:44:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.55 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.08%

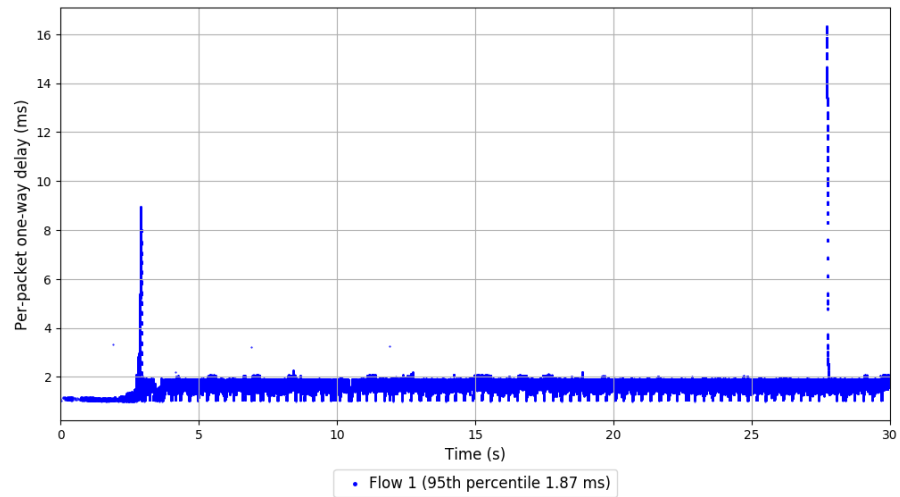
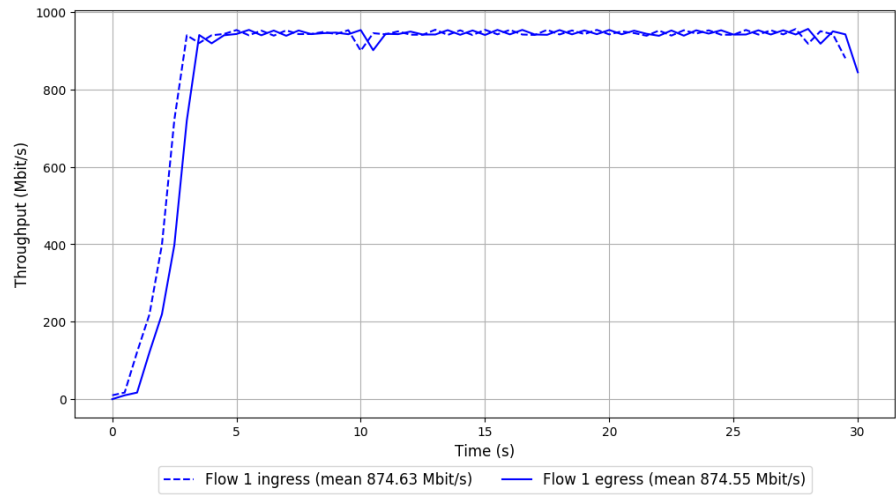
-- Flow 1:

Average throughput: 874.55 Mbit/s

95th percentile per-packet one-way delay: 1.872 ms

Loss rate: 0.08%

Run 7: Report of FillP — Data Link

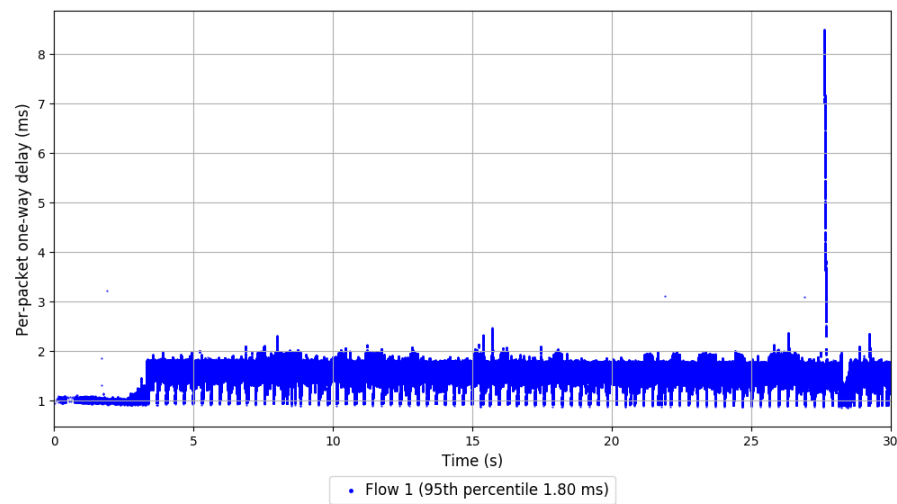
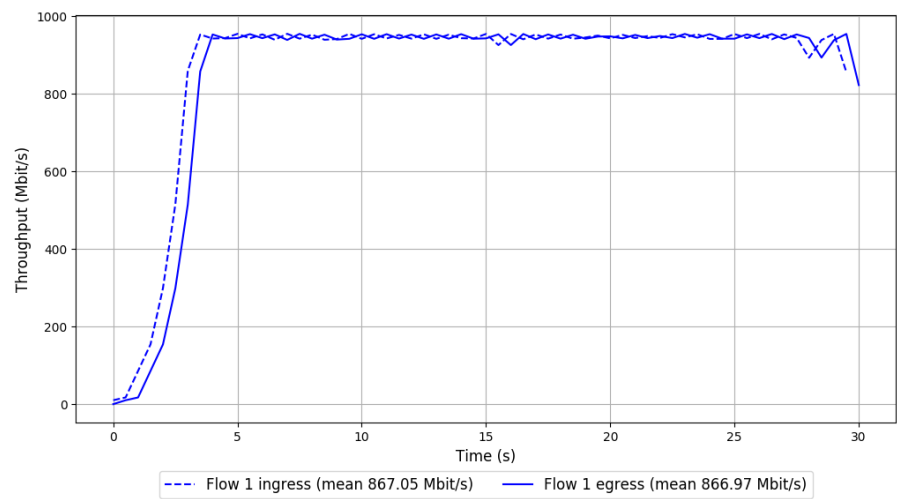


Run 8: Statistics of FillP

Start at: 2018-06-30 09:34:17
End at: 2018-06-30 09:34:47
Local clock offset: 0.366 ms
Remote clock offset: -1.585 ms

Below is generated by plot.py at 2018-06-30 11:44:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 866.97 Mbit/s
95th percentile per-packet one-way delay: 1.803 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 866.97 Mbit/s
95th percentile per-packet one-way delay: 1.803 ms
Loss rate: 0.07%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-30 09:59:44

End at: 2018-06-30 10:00:14

Local clock offset: 3.396 ms

Remote clock offset: 1.762 ms

Below is generated by plot.py at 2018-06-30 11:52:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 930.49 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.07%

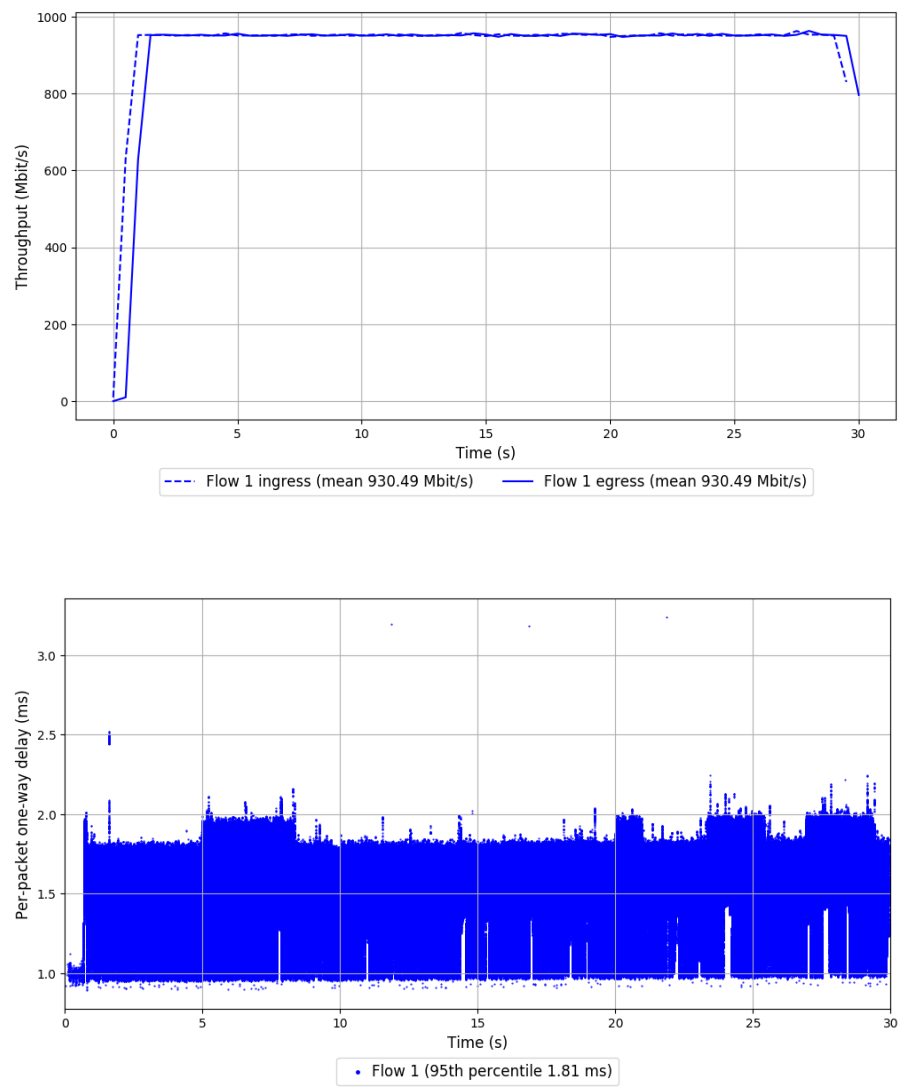
-- Flow 1:

Average throughput: 930.49 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.07%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-30 10:25:16

End at: 2018-06-30 10:25:46

Local clock offset: 4.873 ms

Remote clock offset: 1.887 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 872.77 Mbit/s

95th percentile per-packet one-way delay: 1.750 ms

Loss rate: 0.12%

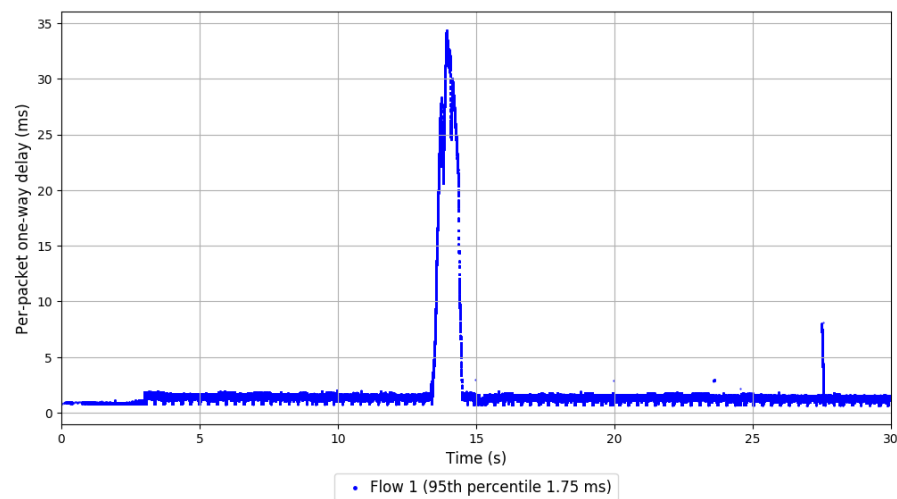
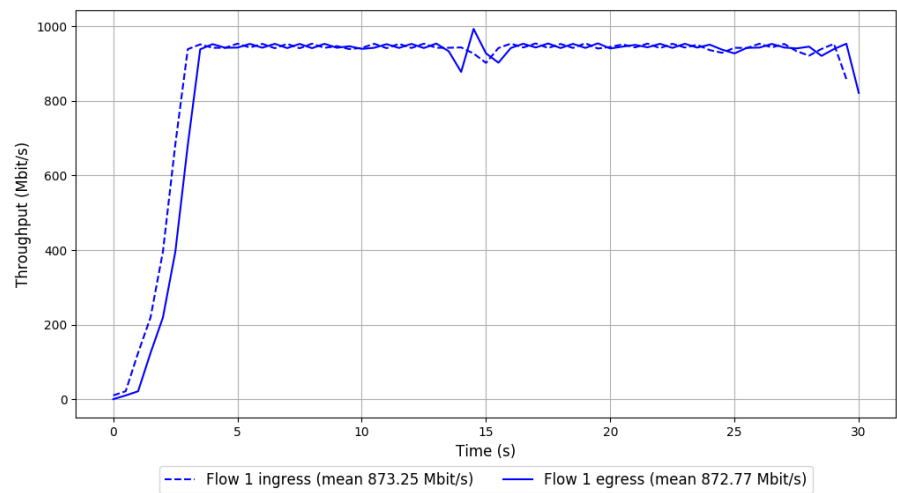
-- Flow 1:

Average throughput: 872.77 Mbit/s

95th percentile per-packet one-way delay: 1.750 ms

Loss rate: 0.12%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

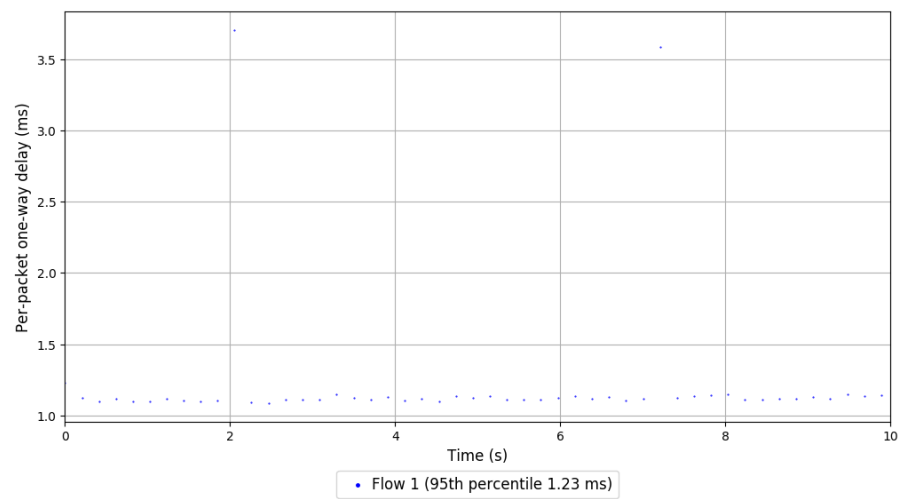
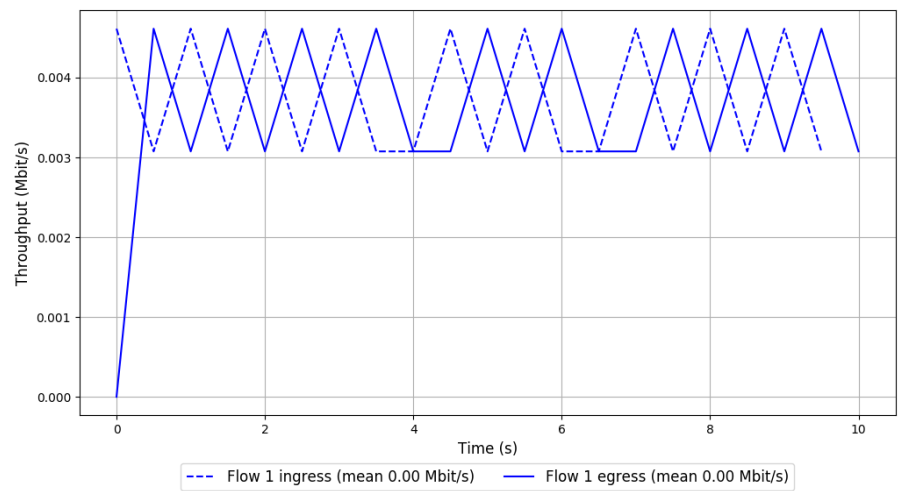
Start at: 2018-06-30 06:52:08

End at: 2018-06-30 06:52:38

Local clock offset: 0.079 ms

Remote clock offset: 11.971 ms

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

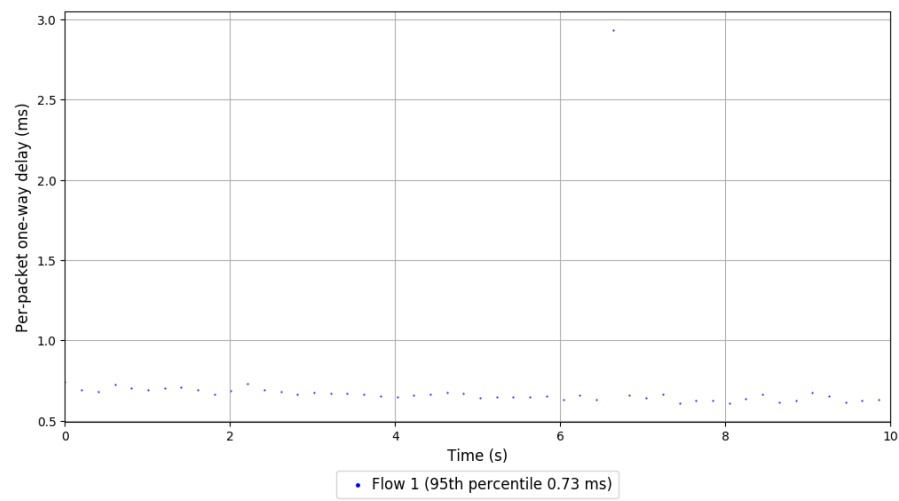
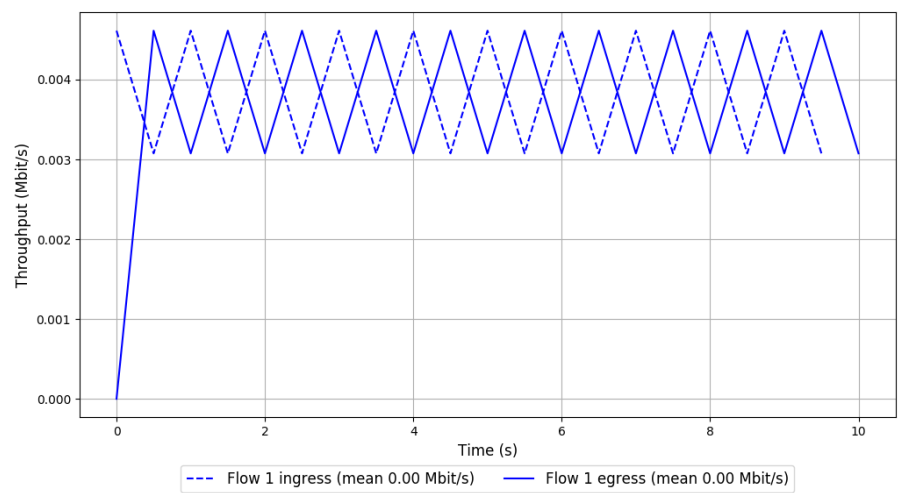
Start at: 2018-06-30 07:17:46

End at: 2018-06-30 07:18:16

Local clock offset: 0.801 ms

Remote clock offset: -0.563 ms

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

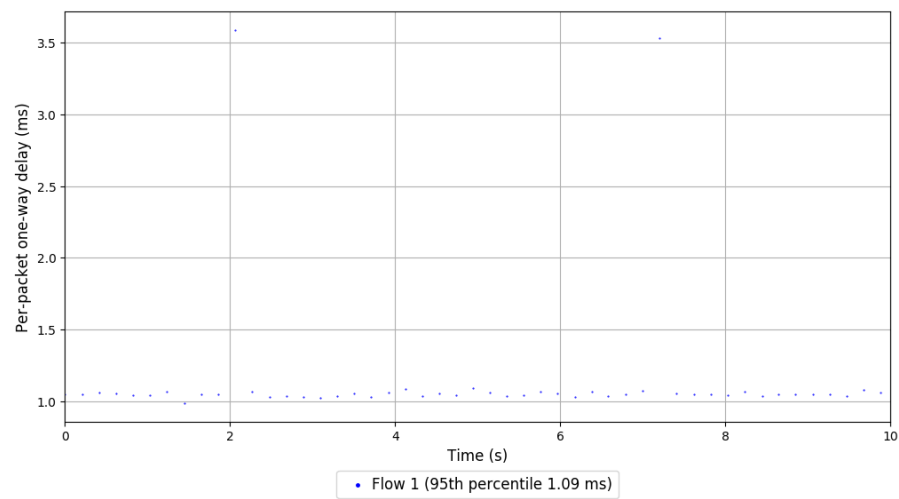
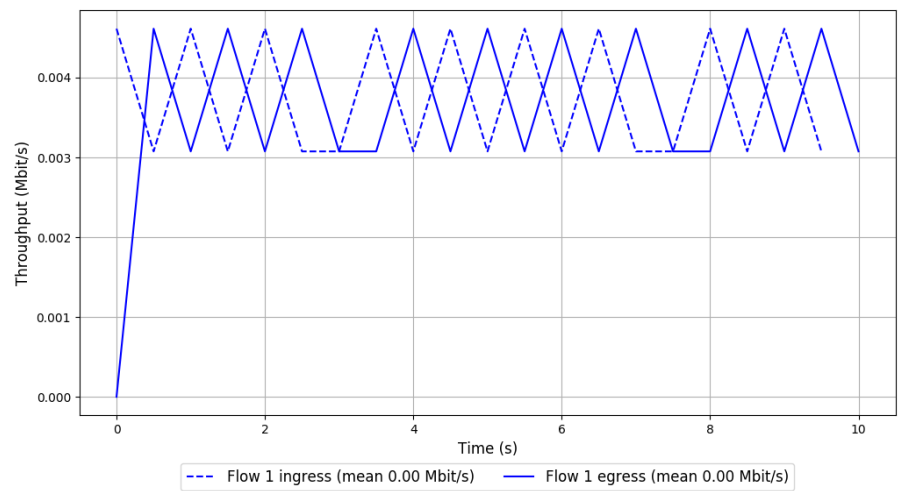
Start at: 2018-06-30 07:43:28

End at: 2018-06-30 07:43:58

Local clock offset: 3.79 ms

Remote clock offset: 1.587 ms

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

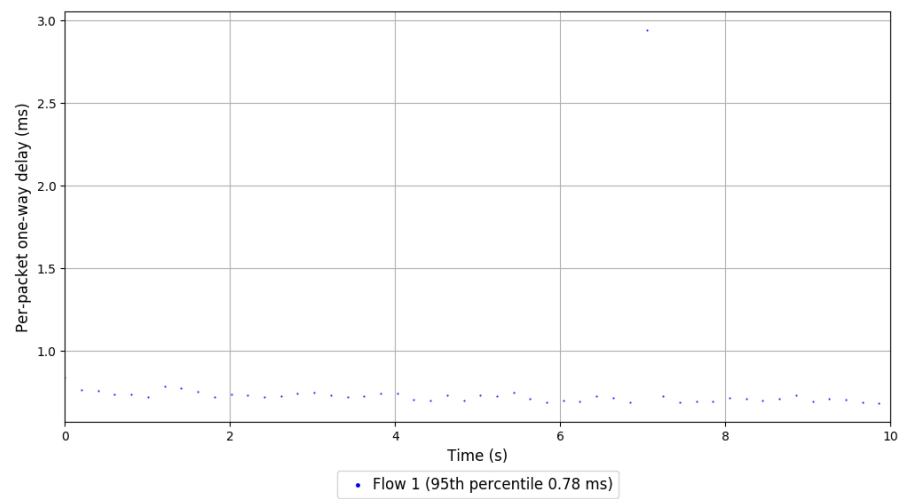
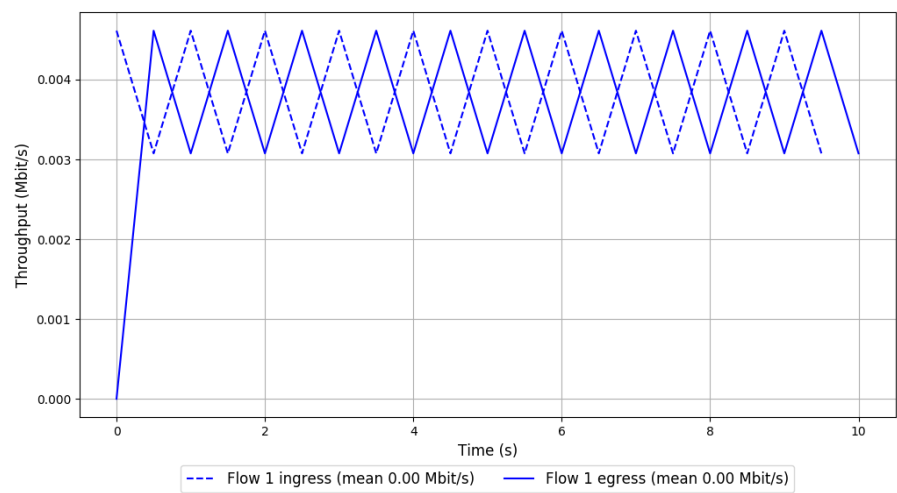
Start at: 2018-06-30 08:09:01

End at: 2018-06-30 08:09:31

Local clock offset: 3.538 ms

Remote clock offset: 1.601 ms

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

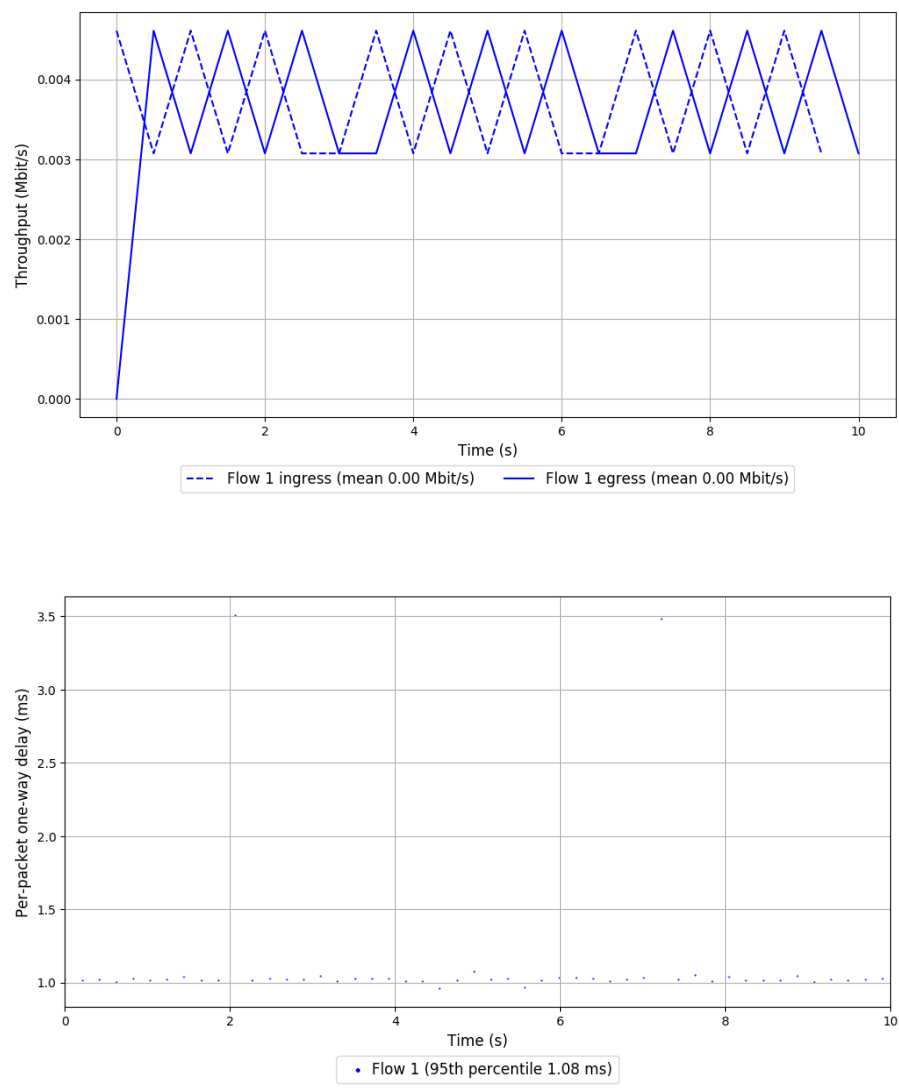
Start at: 2018-06-30 08:34:43

End at: 2018-06-30 08:35:13

Local clock offset: -0.215 ms

Remote clock offset: -1.027 ms

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

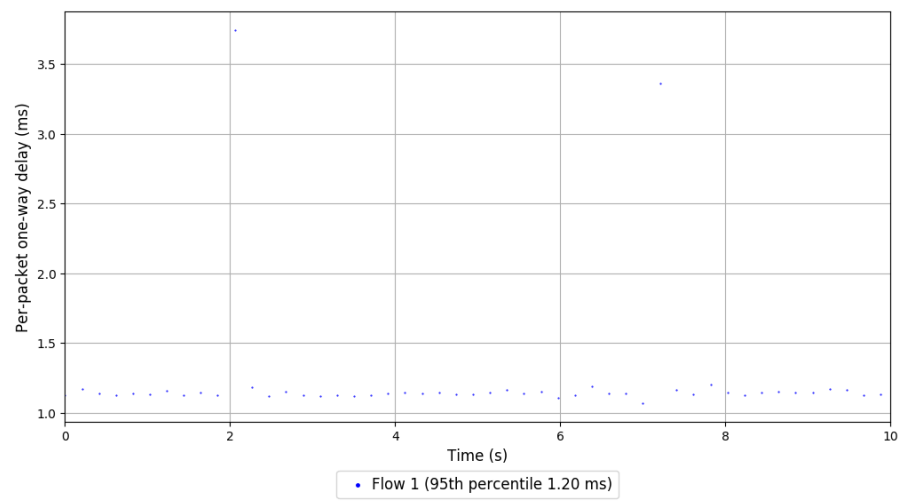
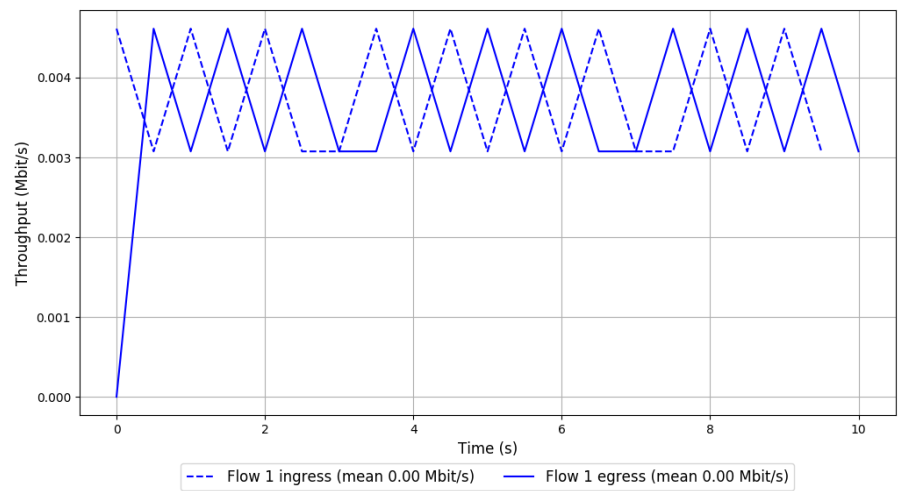
Start at: 2018-06-30 09:00:20

End at: 2018-06-30 09:00:50

Local clock offset: -0.226 ms

Remote clock offset: 2.914 ms

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

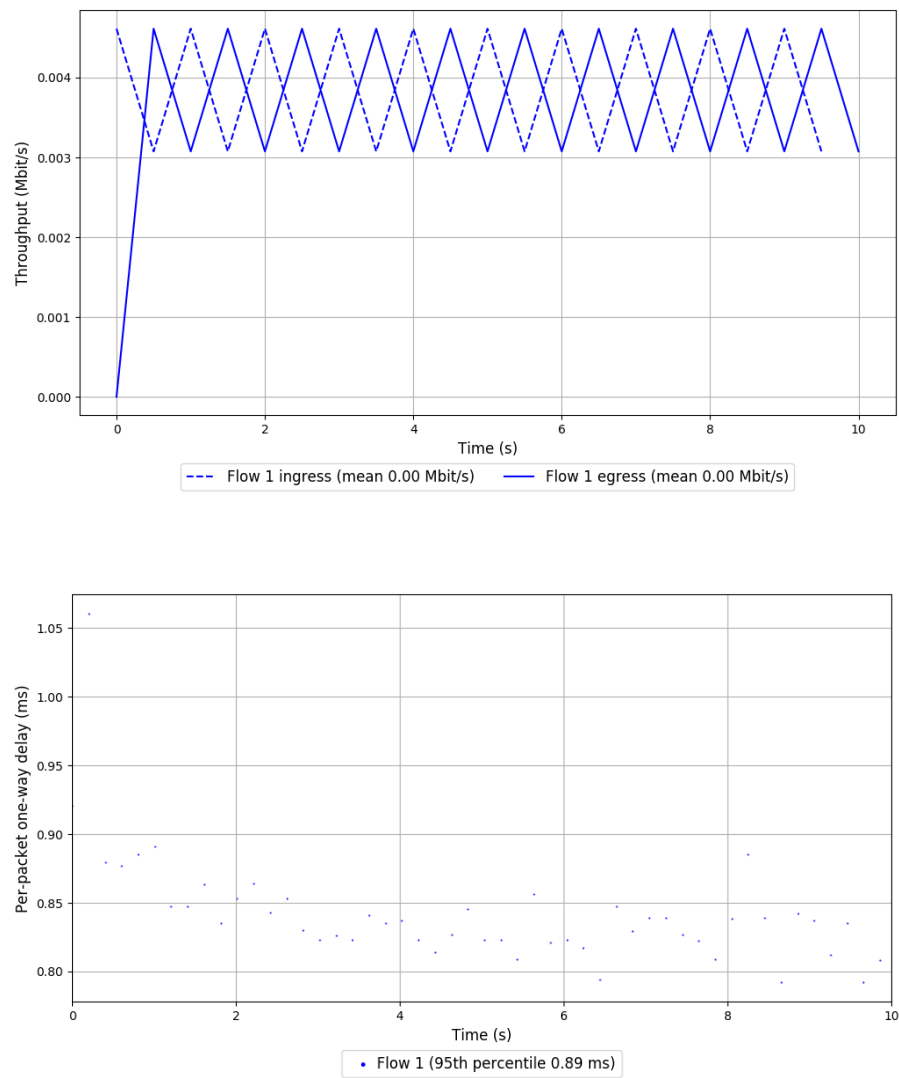
Start at: 2018-06-30 09:25:48

End at: 2018-06-30 09:26:18

Local clock offset: 0.218 ms

Remote clock offset: -0.393 ms

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

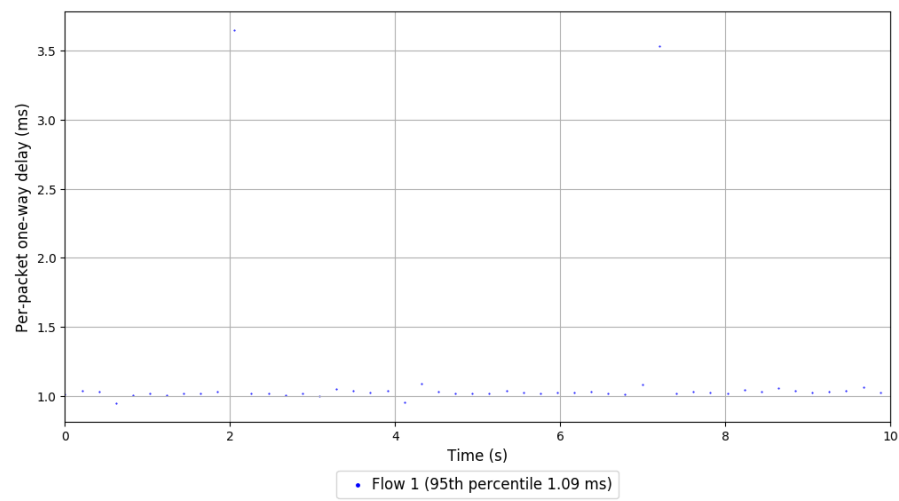
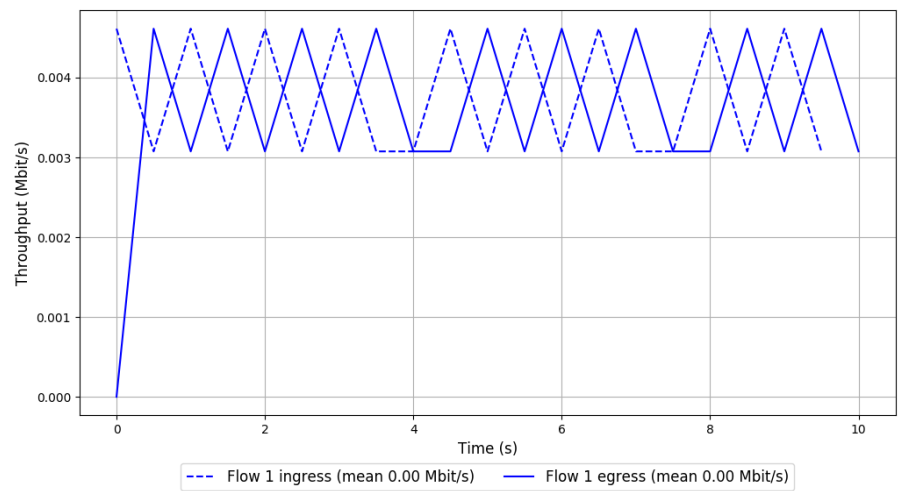
Start at: 2018-06-30 09:51:12

End at: 2018-06-30 09:51:42

Local clock offset: 2.04 ms

Remote clock offset: -0.658 ms

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

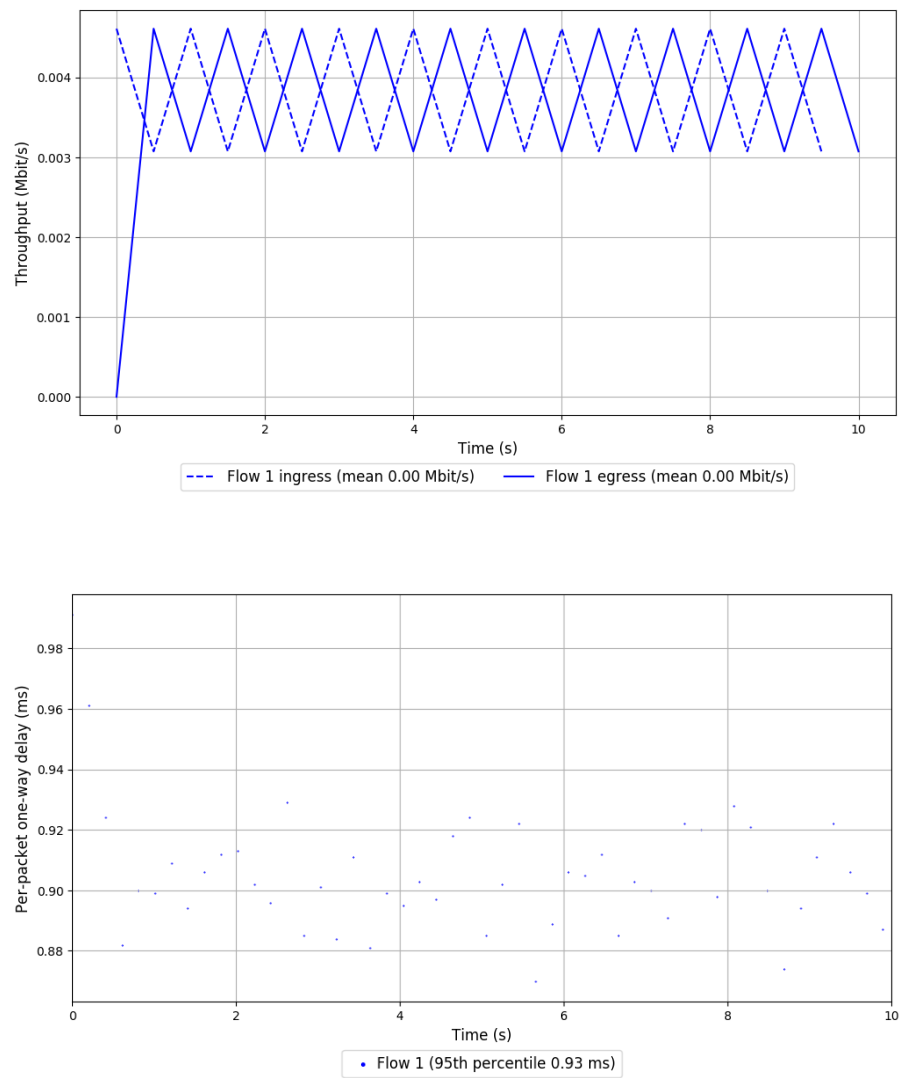
Start at: 2018-06-30 10:16:43

End at: 2018-06-30 10:17:13

Local clock offset: 4.549 ms

Remote clock offset: 3.173 ms

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

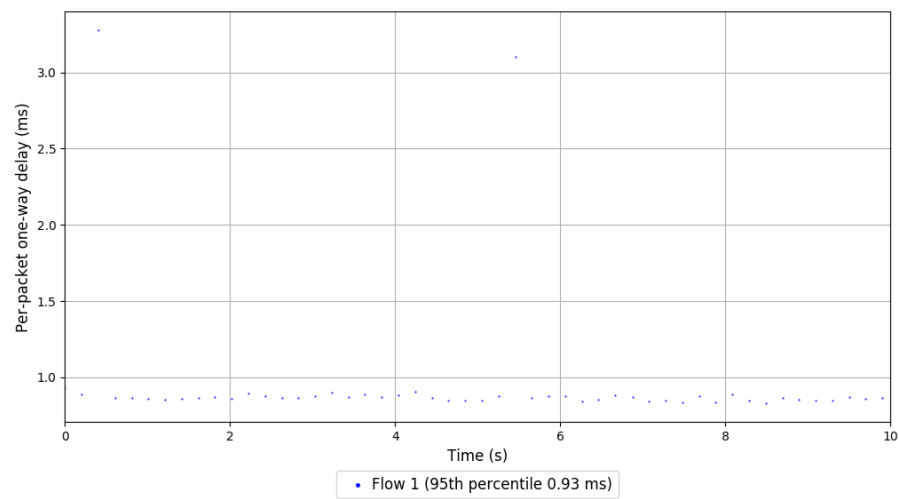
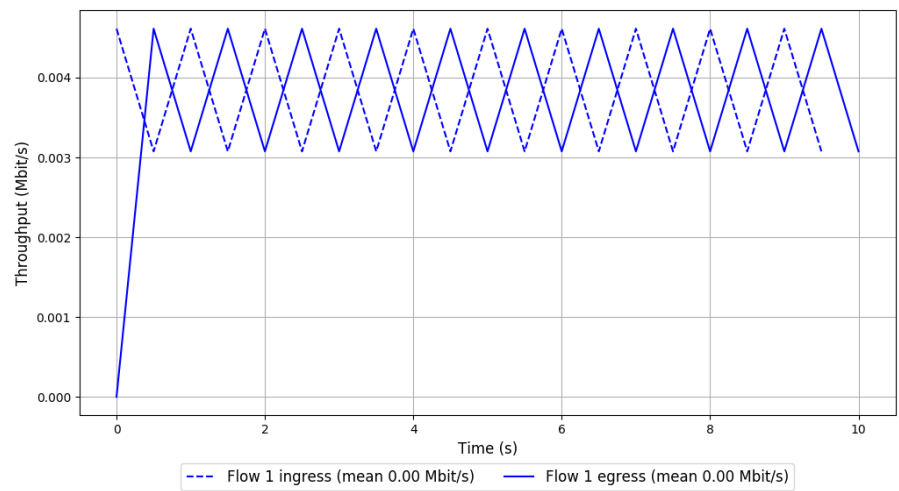
Start at: 2018-06-30 10:42:22

End at: 2018-06-30 10:42:52

Local clock offset: 5.674 ms

Remote clock offset: -0.585 ms

Run 10: Report of FillP-Sheep — Data Link

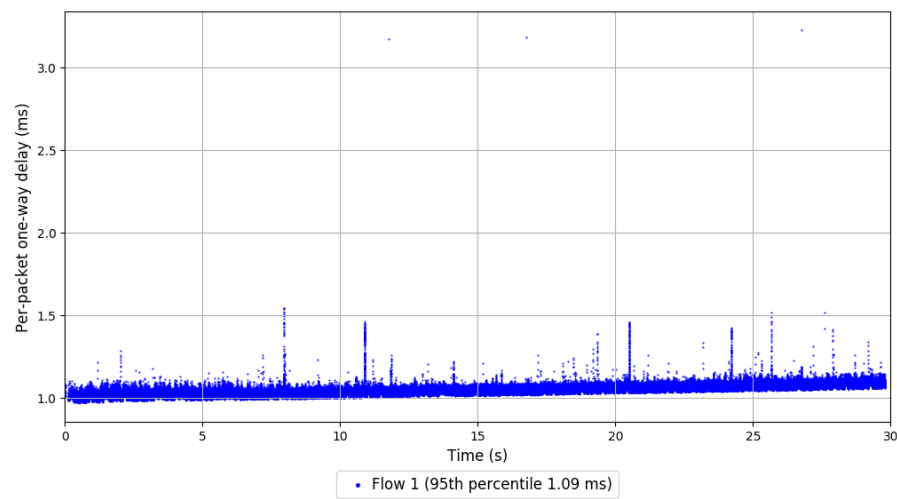
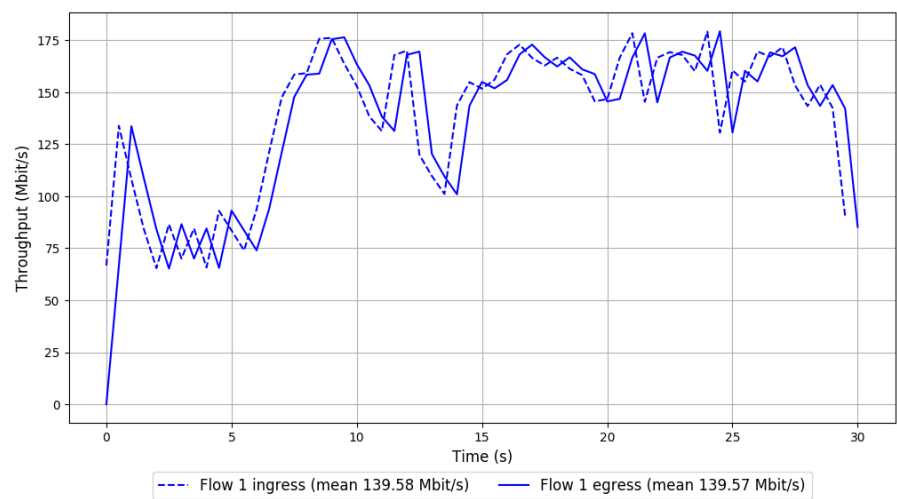


Run 1: Statistics of Indigo

Start at: 2018-06-30 06:44:06
End at: 2018-06-30 06:44:36
Local clock offset: -0.146 ms
Remote clock offset: 10.691 ms

Below is generated by plot.py at 2018-06-30 11:52:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 139.57 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 139.57 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.07%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-30 07:09:45

End at: 2018-06-30 07:10:15

Local clock offset: 0.05 ms

Remote clock offset: 1.551 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.54 Mbit/s

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

Loss rate: 0.10%

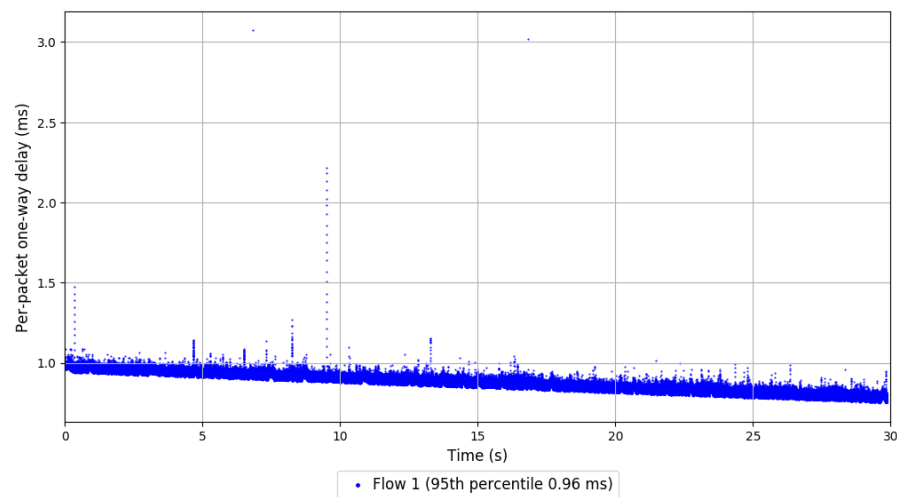
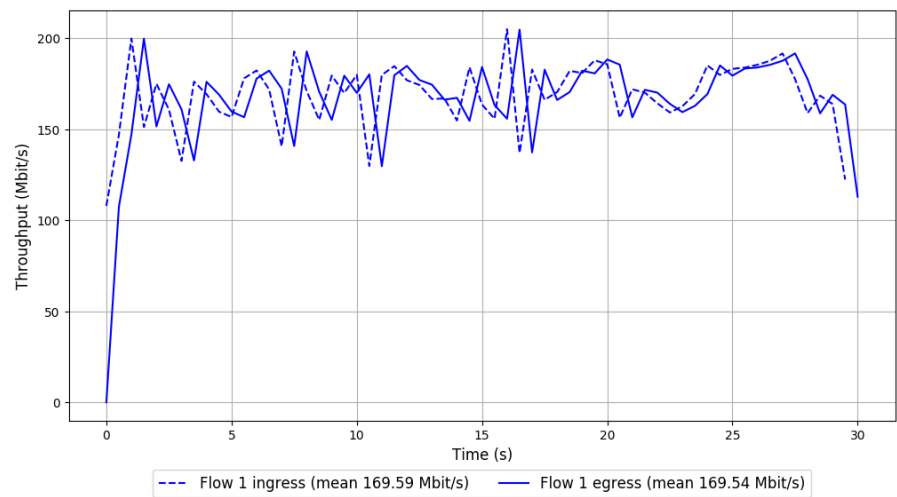
-- Flow 1:

Average throughput: 169.54 Mbit/s

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

Loss rate: 0.10%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-30 07:35:27

End at: 2018-06-30 07:35:57

Local clock offset: 3.331 ms

Remote clock offset: -0.354 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.13 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.03%

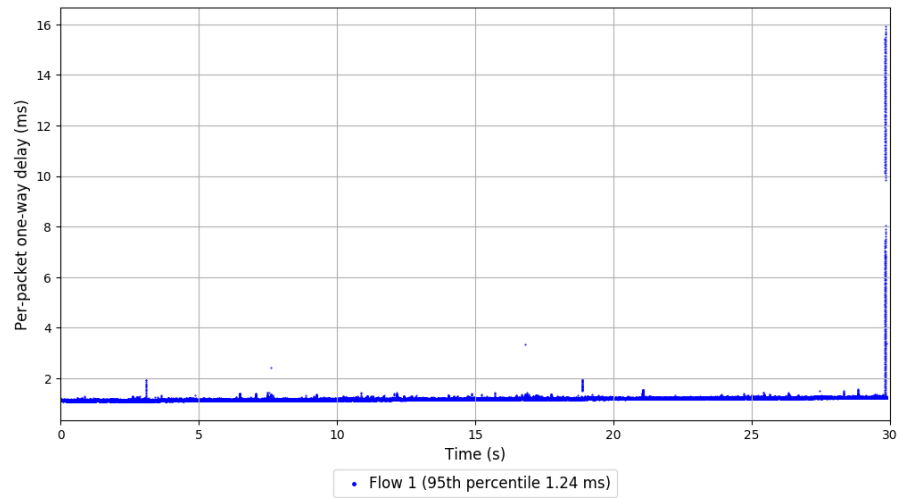
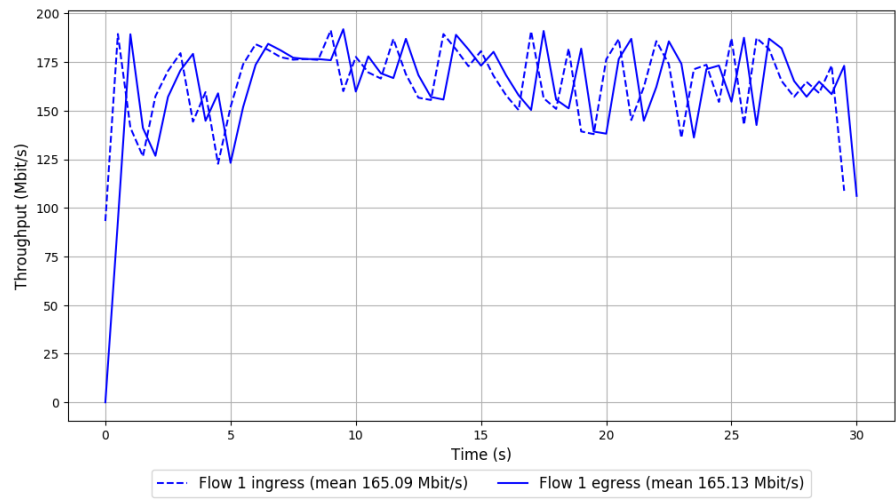
-- Flow 1:

Average throughput: 165.13 Mbit/s

95th percentile per-packet one-way delay: 1.235 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-30 08:01:00

End at: 2018-06-30 08:01:30

Local clock offset: 3.569 ms

Remote clock offset: 2.608 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.94 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.07%

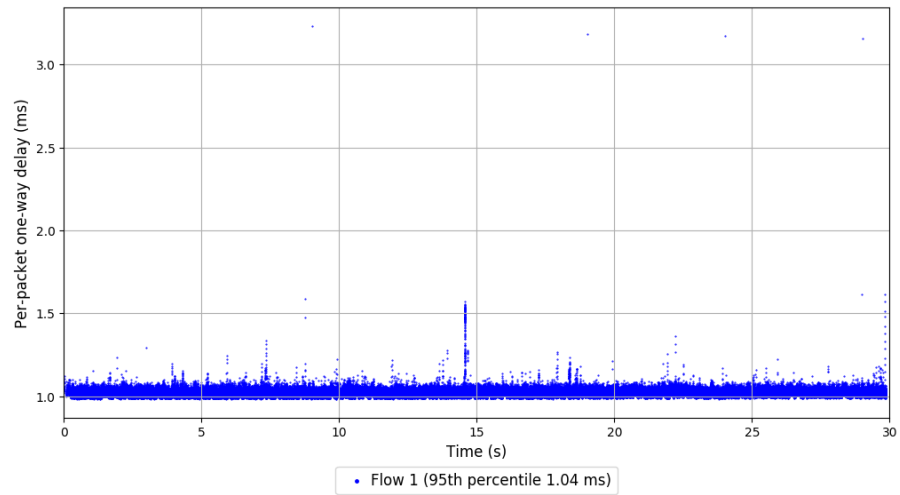
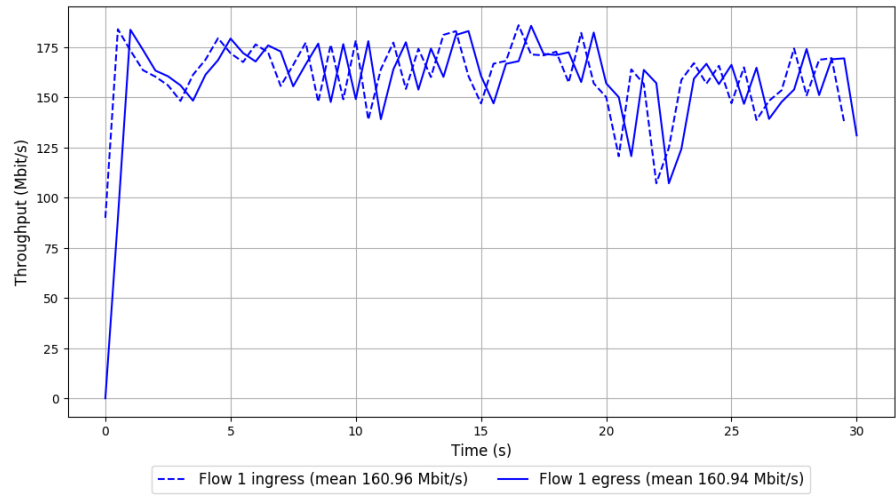
-- Flow 1:

Average throughput: 160.94 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.07%

Run 4: Report of Indigo — Data Link

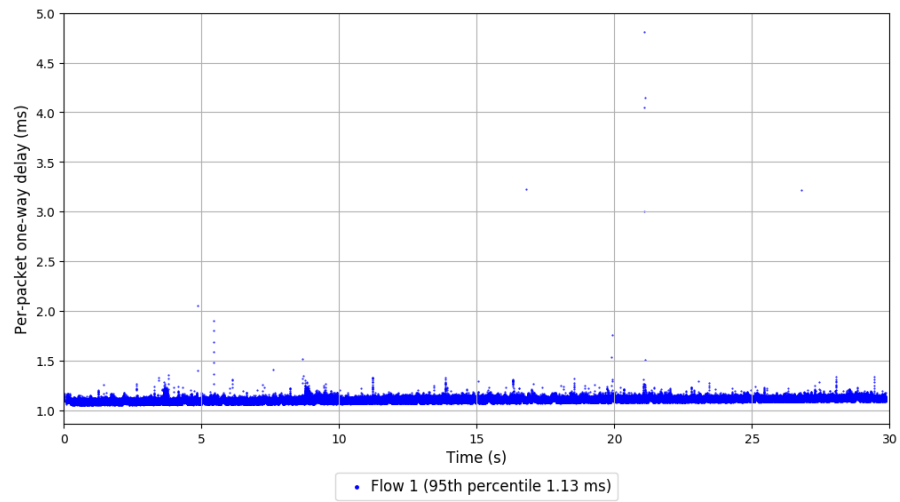
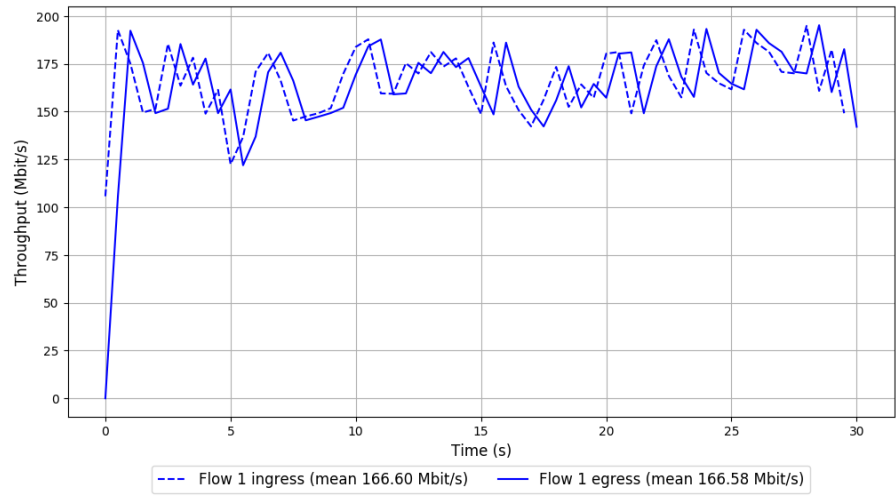


Run 5: Statistics of Indigo

Start at: 2018-06-30 08:26:40
End at: 2018-06-30 08:27:10
Local clock offset: 0.72 ms
Remote clock offset: -0.576 ms

Below is generated by plot.py at 2018-06-30 11:52:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 166.58 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 166.58 Mbit/s
95th percentile per-packet one-way delay: 1.131 ms
Loss rate: 0.08%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-30 08:52:18

End at: 2018-06-30 08:52:48

Local clock offset: -0.364 ms

Remote clock offset: 2.235 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.48 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.08%

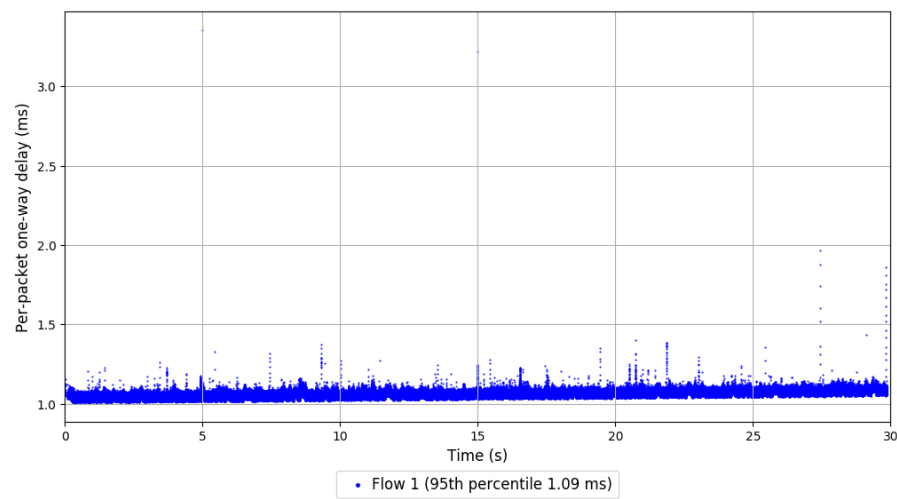
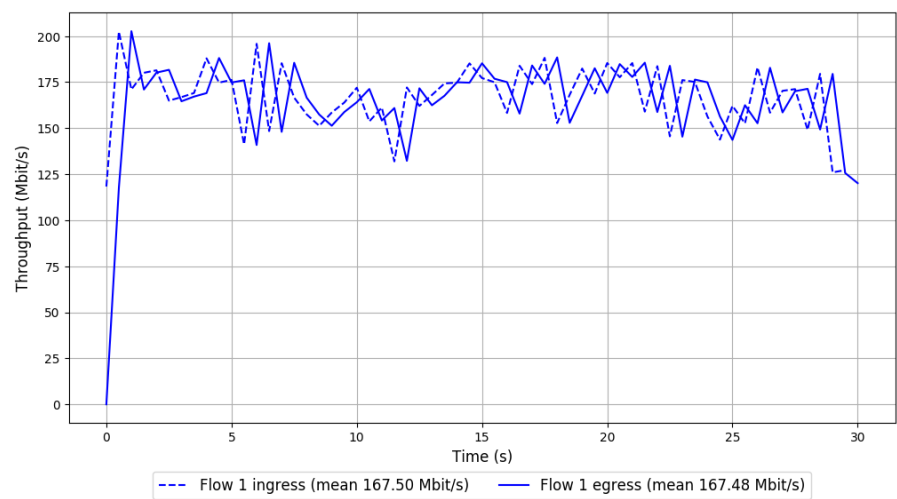
-- Flow 1:

Average throughput: 167.48 Mbit/s

95th percentile per-packet one-way delay: 1.092 ms

Loss rate: 0.08%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-30 09:17:47

End at: 2018-06-30 09:18:17

Local clock offset: -0.27 ms

Remote clock offset: 1.475 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.93 Mbit/s

95th percentile per-packet one-way delay: 0.867 ms

Loss rate: 0.06%

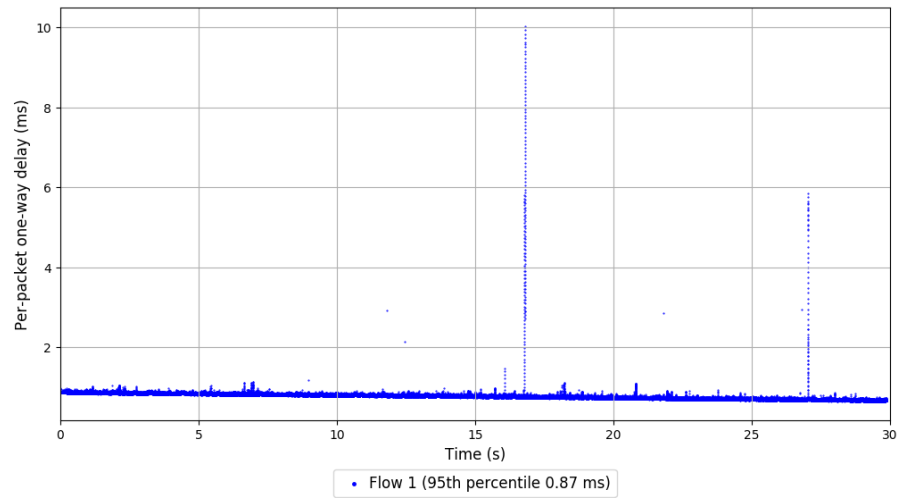
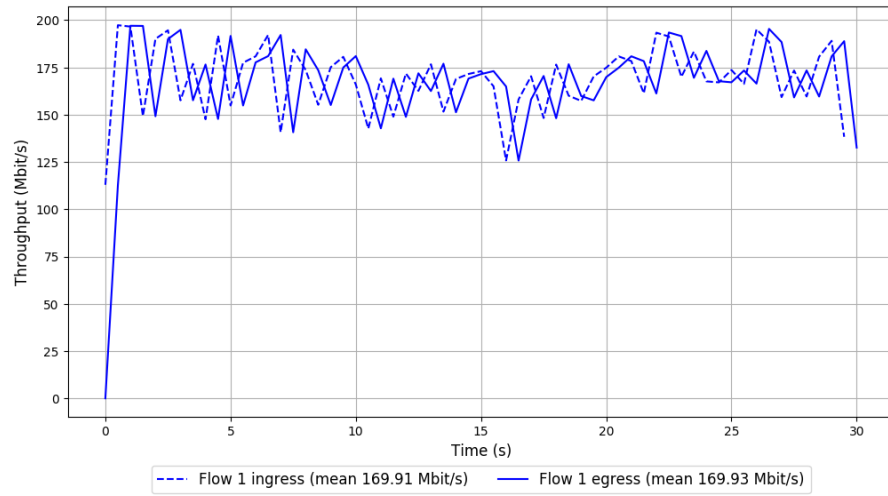
-- Flow 1:

Average throughput: 169.93 Mbit/s

95th percentile per-packet one-way delay: 0.867 ms

Loss rate: 0.06%

Run 7: Report of Indigo — Data Link

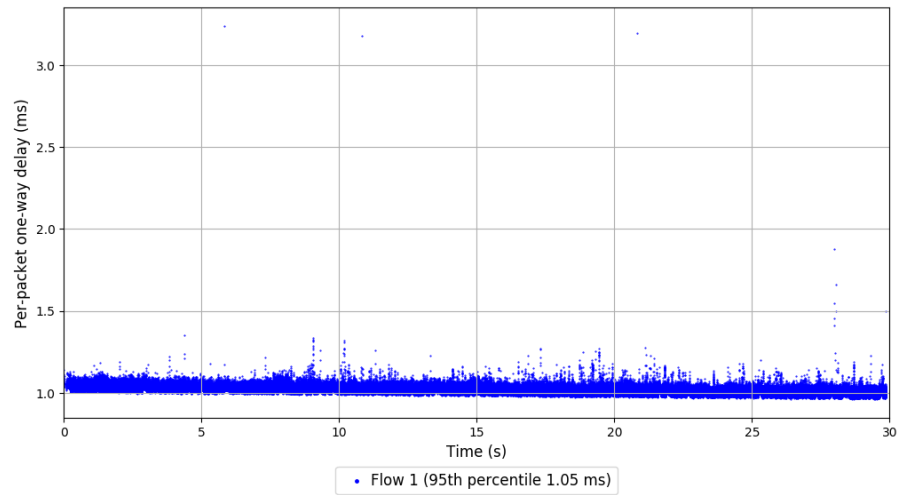
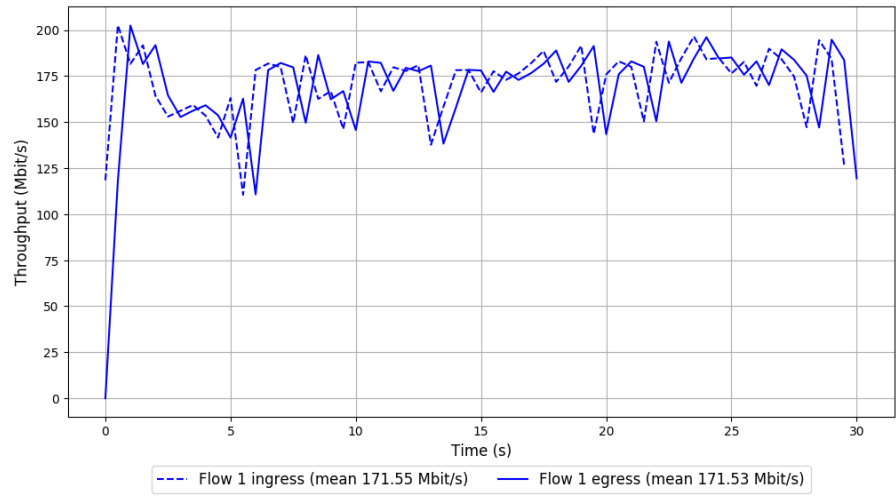


Run 8: Statistics of Indigo

Start at: 2018-06-30 09:43:12
End at: 2018-06-30 09:43:42
Local clock offset: 0.373 ms
Remote clock offset: -2.431 ms

Below is generated by plot.py at 2018-06-30 11:52:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 171.53 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 171.53 Mbit/s
95th percentile per-packet one-way delay: 1.052 ms
Loss rate: 0.07%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-30 10:08:42

End at: 2018-06-30 10:09:12

Local clock offset: 4.12 ms

Remote clock offset: 2.712 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.08 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.08%

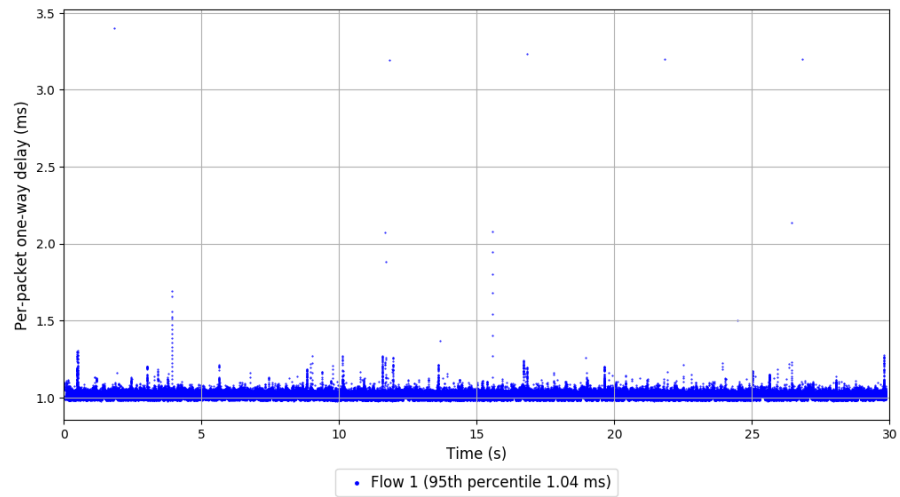
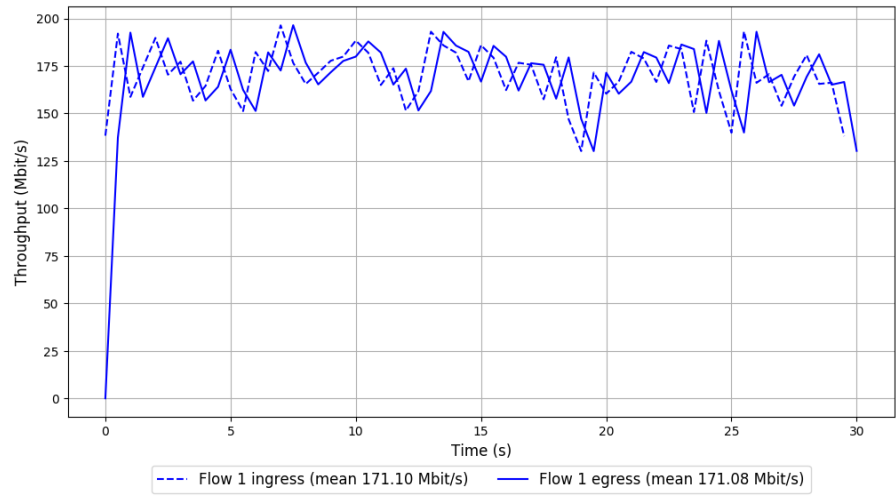
-- Flow 1:

Average throughput: 171.08 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.08%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-30 10:34:17

End at: 2018-06-30 10:34:47

Local clock offset: 5.351 ms

Remote clock offset: 0.155 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 162.05 Mbit/s

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

Loss rate: 0.08%

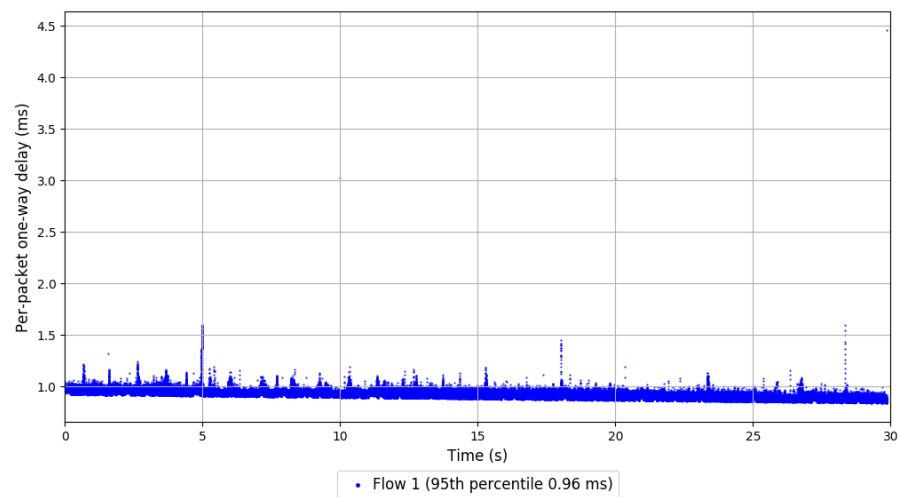
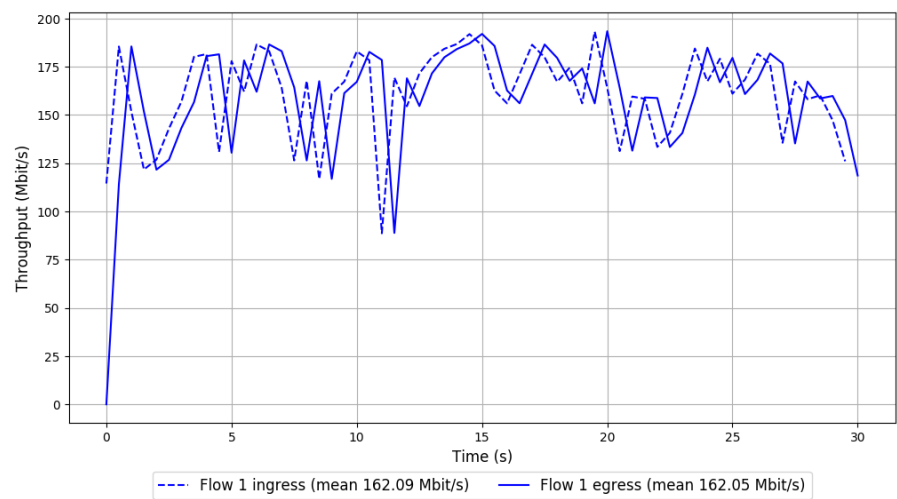
-- Flow 1:

Average throughput: 162.05 Mbit/s

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

Loss rate: 0.08%

Run 10: Report of Indigo — Data Link

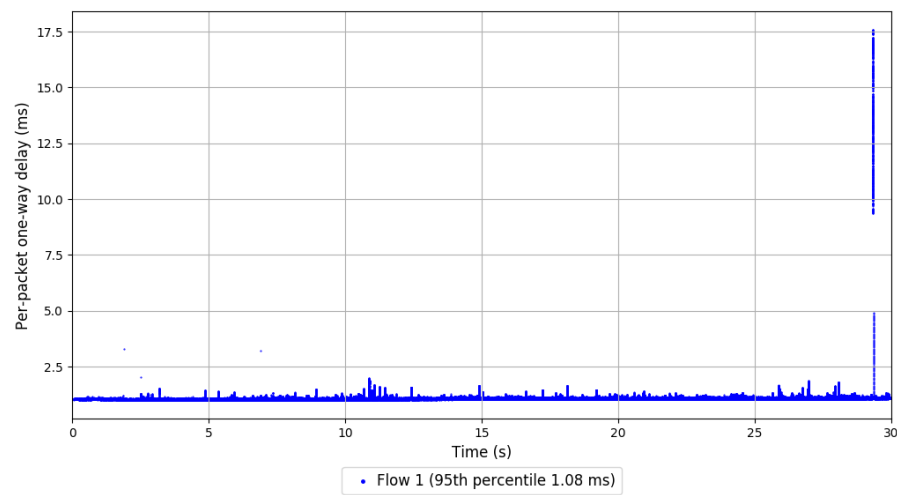
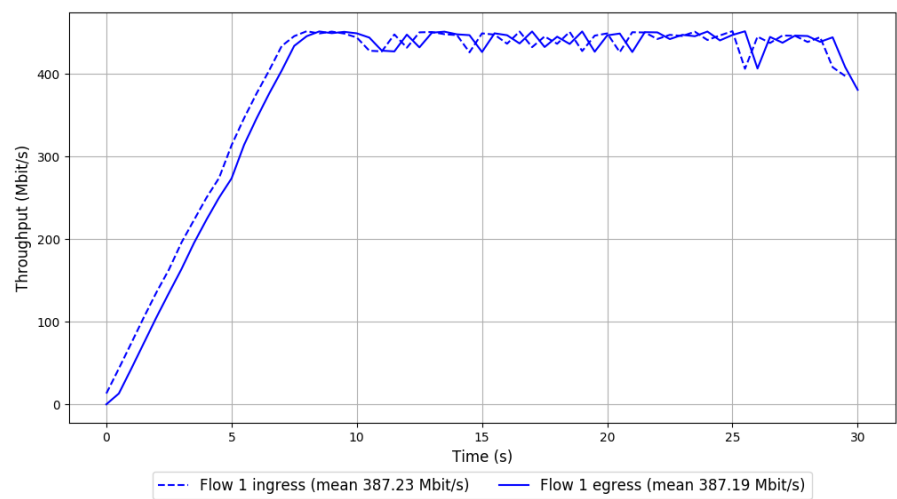


Run 1: Statistics of LEDBAT

Start at: 2018-06-30 06:47:14
End at: 2018-06-30 06:47:44
Local clock offset: -0.034 ms
Remote clock offset: 11.223 ms

Below is generated by plot.py at 2018-06-30 11:52:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 387.19 Mbit/s
95th percentile per-packet one-way delay: 1.085 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 387.19 Mbit/s
95th percentile per-packet one-way delay: 1.085 ms
Loss rate: 0.08%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-30 07:12:54

End at: 2018-06-30 07:13:24

Local clock offset: 0.11 ms

Remote clock offset: 0.467 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.71 Mbit/s

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

Loss rate: 0.08%

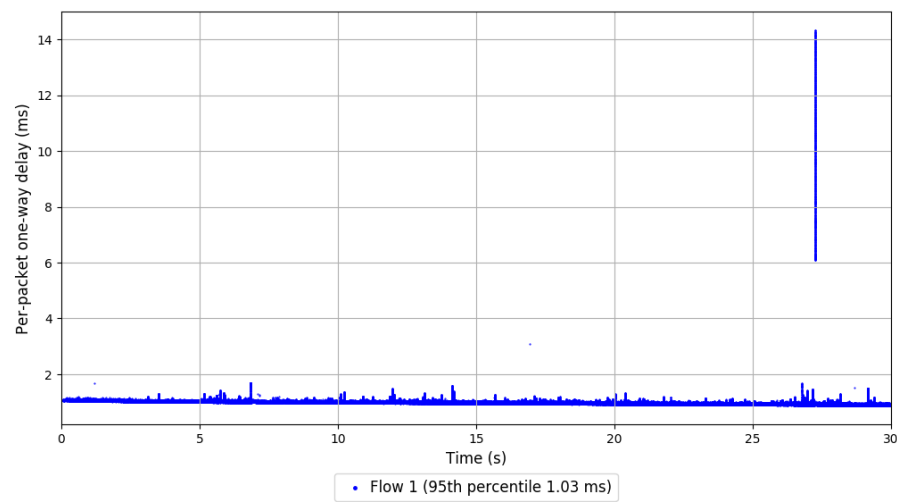
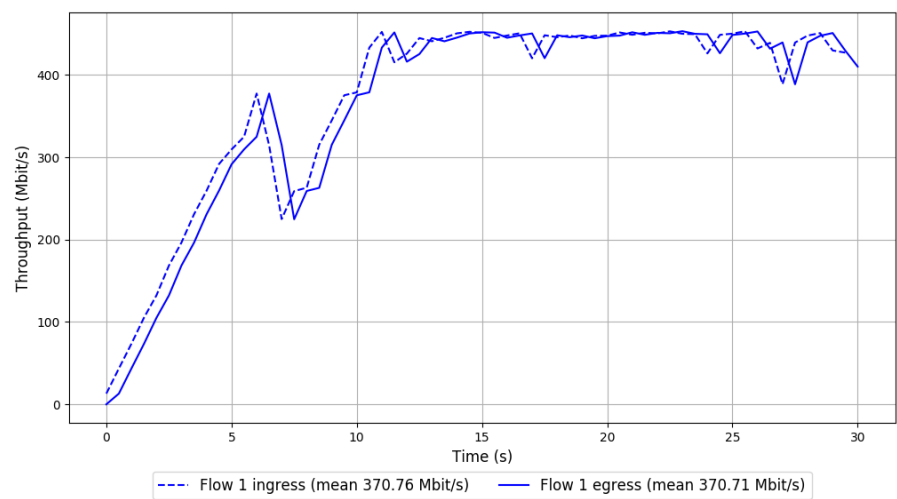
-- Flow 1:

Average throughput: 370.71 Mbit/s

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

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-30 07:38:36

End at: 2018-06-30 07:39:06

Local clock offset: 3.42 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.93 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.08%

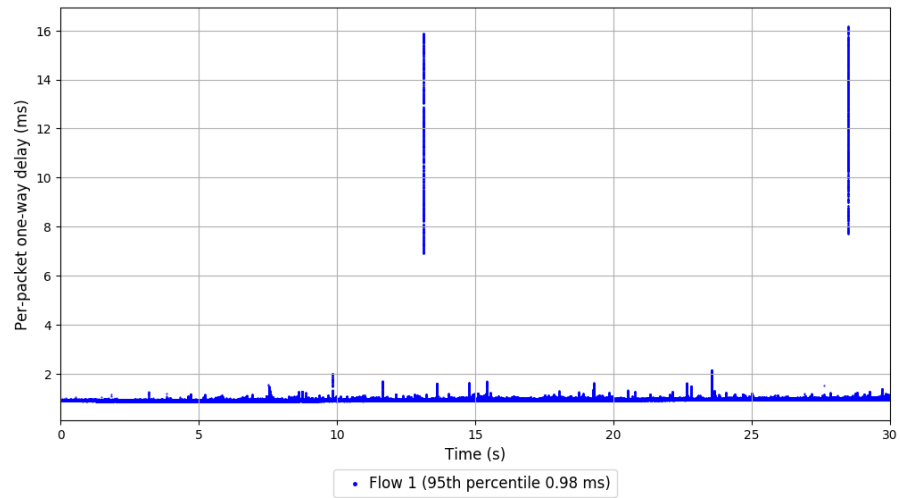
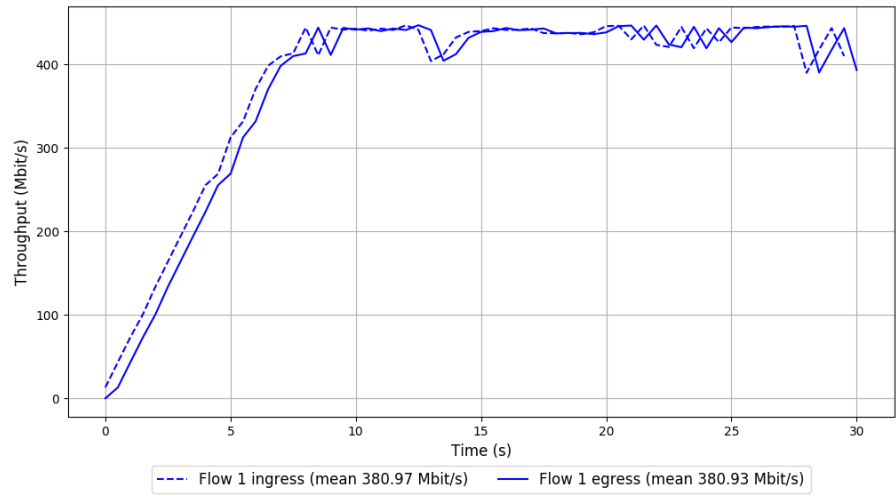
-- Flow 1:

Average throughput: 380.93 Mbit/s

95th percentile per-packet one-way delay: 0.980 ms

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-30 08:04:08

End at: 2018-06-30 08:04:38

Local clock offset: 3.58 ms

Remote clock offset: 2.597 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.59 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.07%

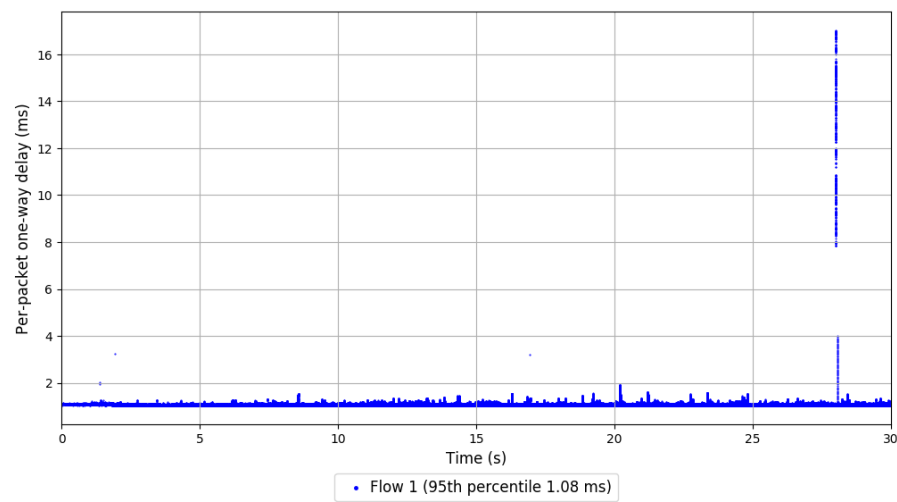
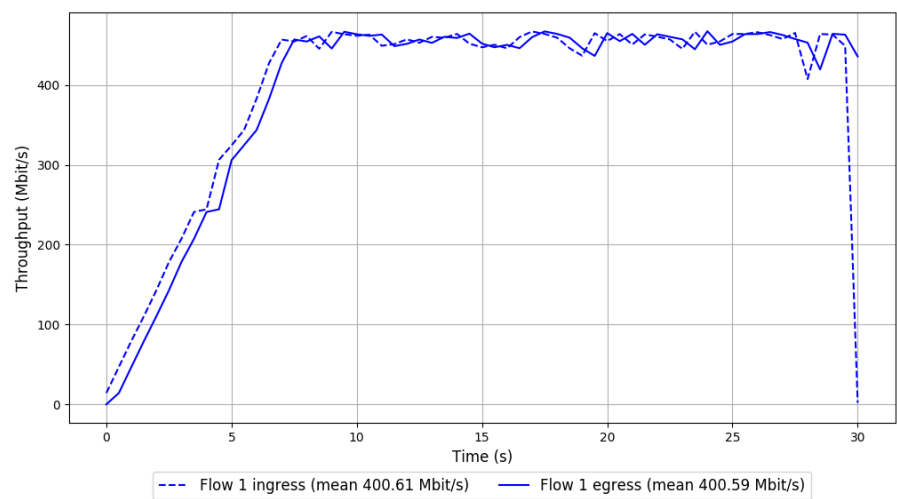
-- Flow 1:

Average throughput: 400.59 Mbit/s

95th percentile per-packet one-way delay: 1.085 ms

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link

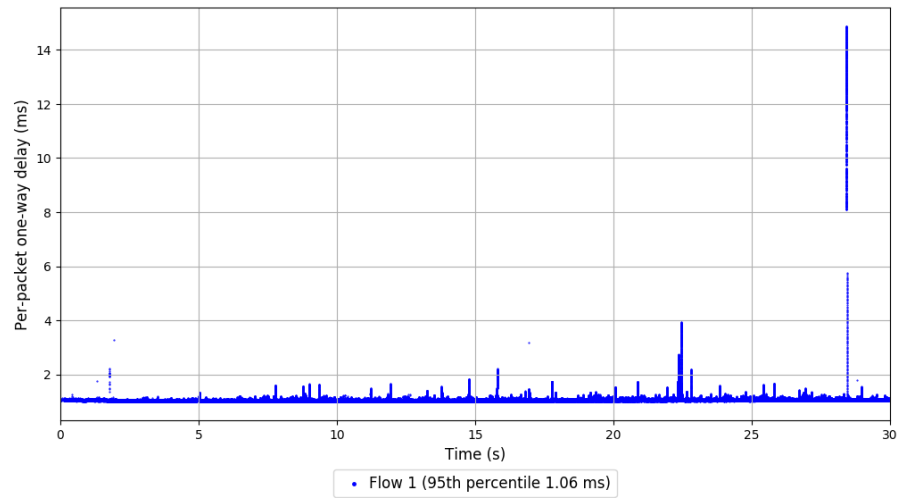
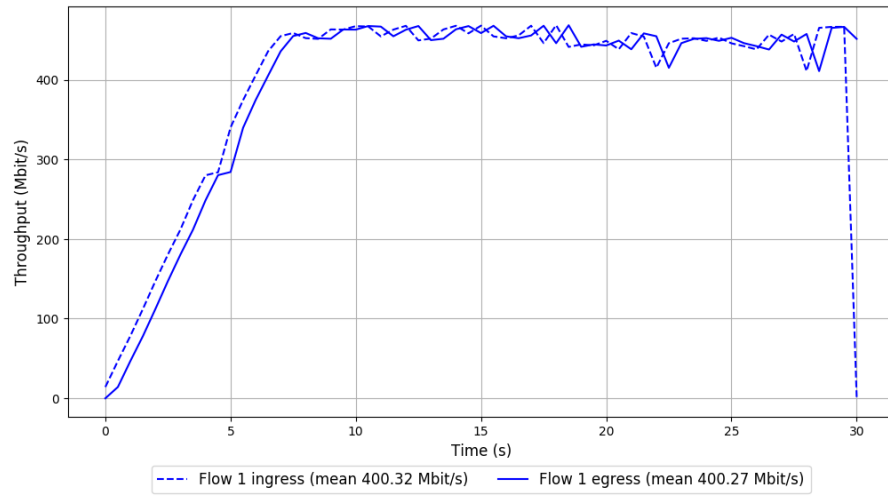


Run 5: Statistics of LEDBAT

Start at: 2018-06-30 08:29:48
End at: 2018-06-30 08:30:18
Local clock offset: 0.24 ms
Remote clock offset: -0.797 ms

Below is generated by plot.py at 2018-06-30 11:52:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 400.27 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 400.27 Mbit/s
95th percentile per-packet one-way delay: 1.065 ms
Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-30 08:55:27

End at: 2018-06-30 08:55:57

Local clock offset: -0.304 ms

Remote clock offset: 2.589 ms

Below is generated by plot.py at 2018-06-30 11:52:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 388.14 Mbit/s

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

Loss rate: 0.08%

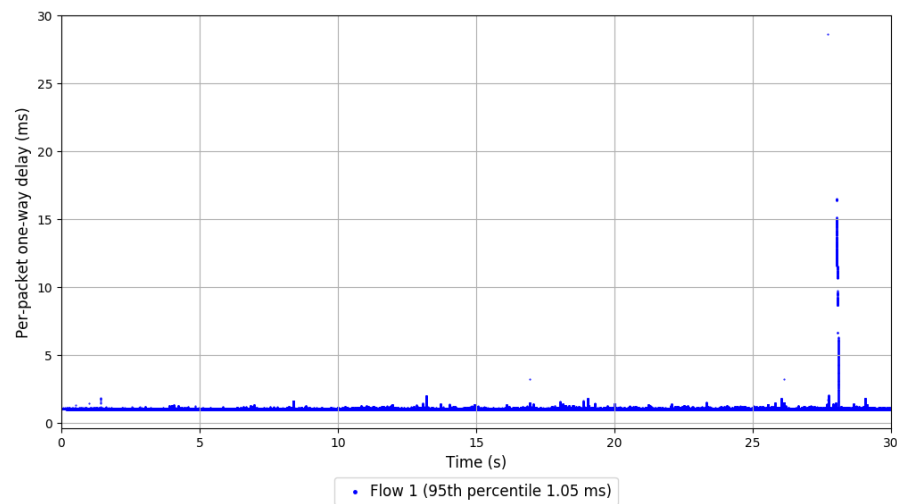
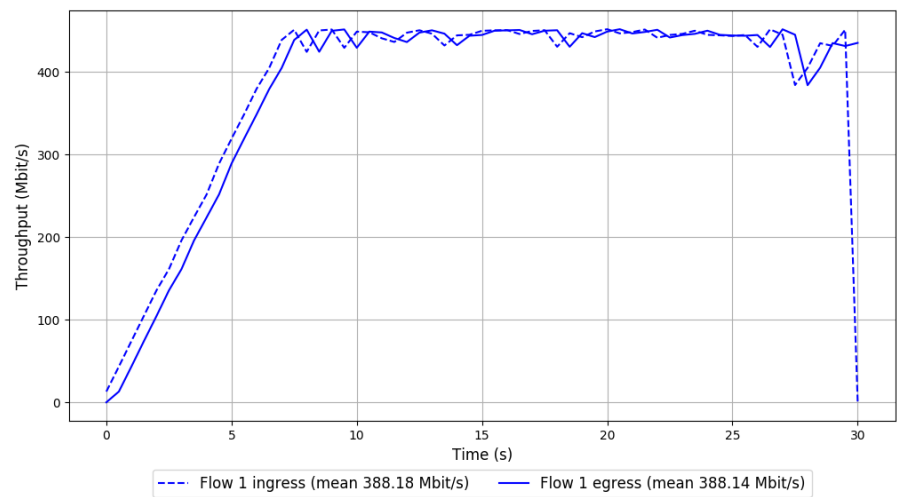
-- Flow 1:

Average throughput: 388.14 Mbit/s

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

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-30 09:20:56

End at: 2018-06-30 09:21:26

Local clock offset: 0.033 ms

Remote clock offset: 0.52 ms

Below is generated by plot.py at 2018-06-30 11:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.17 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.08%

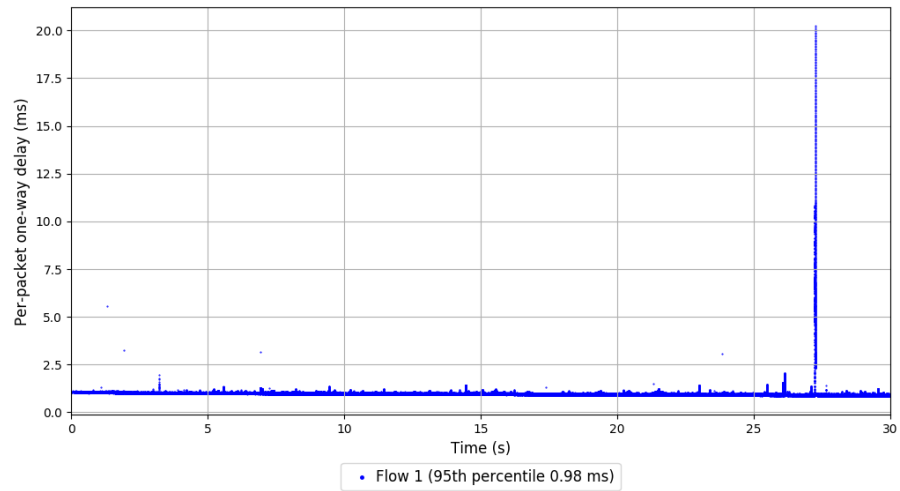
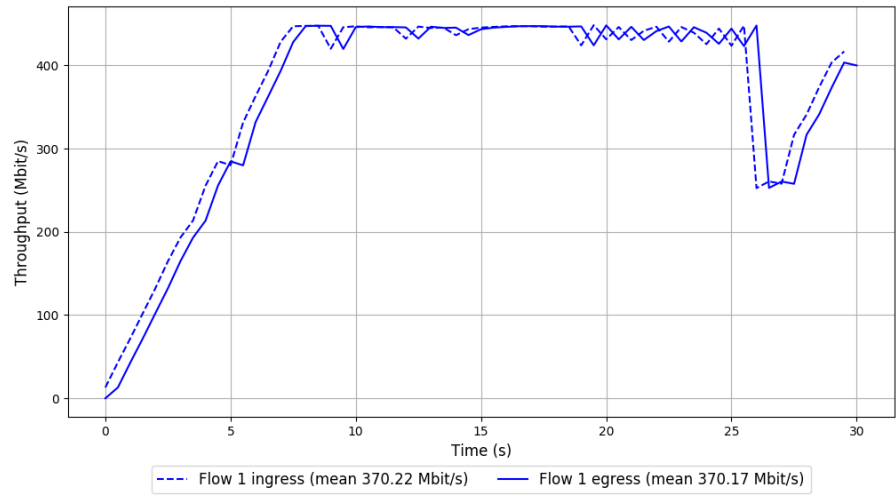
-- Flow 1:

Average throughput: 370.17 Mbit/s

95th percentile per-packet one-way delay: 0.985 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-30 09:46:20

End at: 2018-06-30 09:46:50

Local clock offset: 0.696 ms

Remote clock offset: -2.64 ms

Below is generated by plot.py at 2018-06-30 11:54:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.63 Mbit/s

95th percentile per-packet one-way delay: 0.796 ms

Loss rate: 0.04%

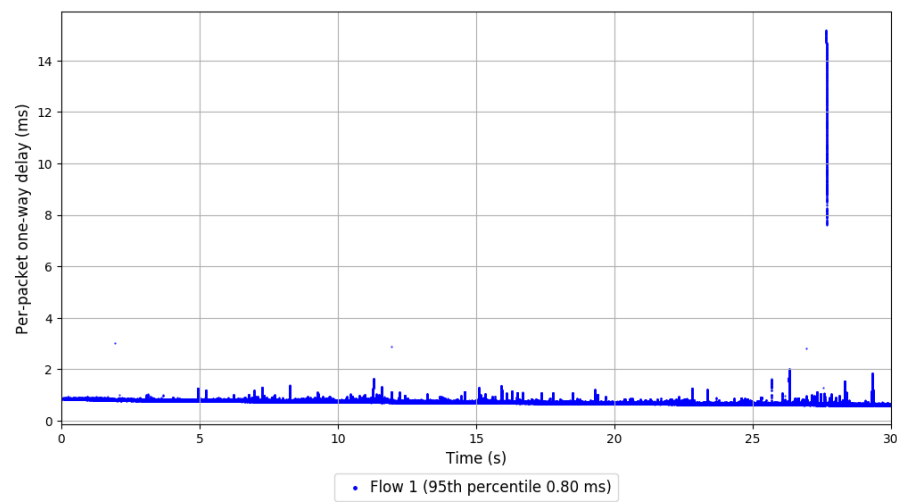
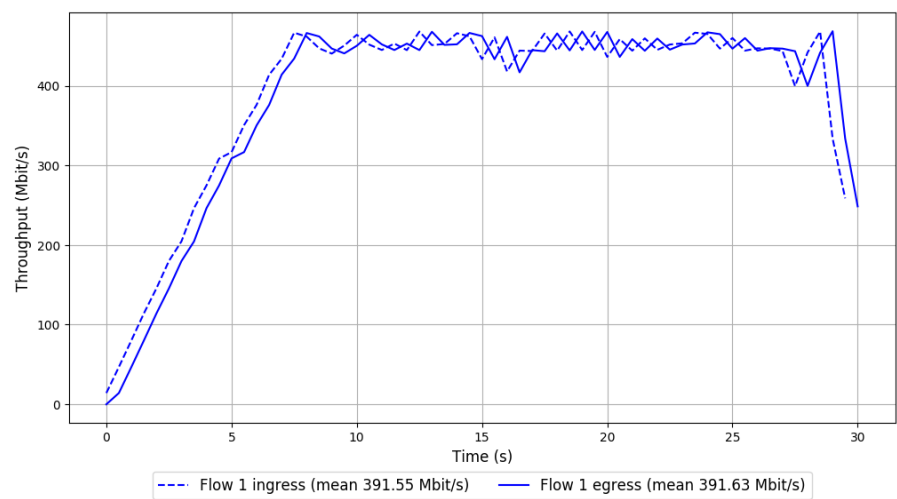
-- Flow 1:

Average throughput: 391.63 Mbit/s

95th percentile per-packet one-way delay: 0.796 ms

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-30 10:11:51

End at: 2018-06-30 10:12:21

Local clock offset: 4.294 ms

Remote clock offset: 2.871 ms

Below is generated by plot.py at 2018-06-30 11:54:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 402.93 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.07%

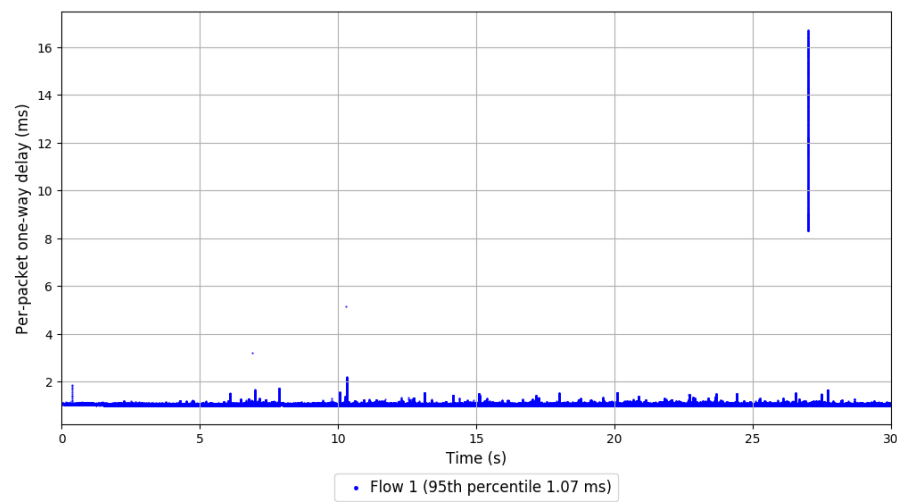
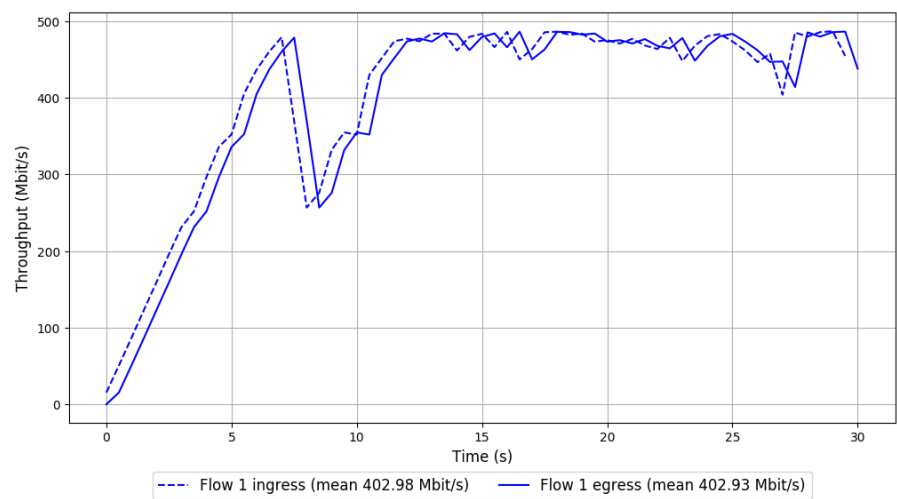
-- Flow 1:

Average throughput: 402.93 Mbit/s

95th percentile per-packet one-way delay: 1.066 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-30 10:37:27

End at: 2018-06-30 10:37:57

Local clock offset: 5.487 ms

Remote clock offset: -0.191 ms

Below is generated by plot.py at 2018-06-30 11:55:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.97 Mbit/s

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

Loss rate: 0.07%

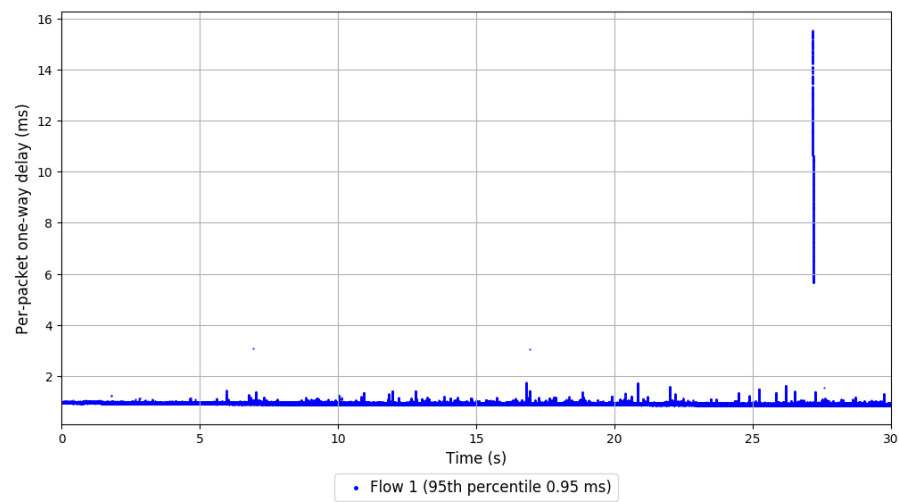
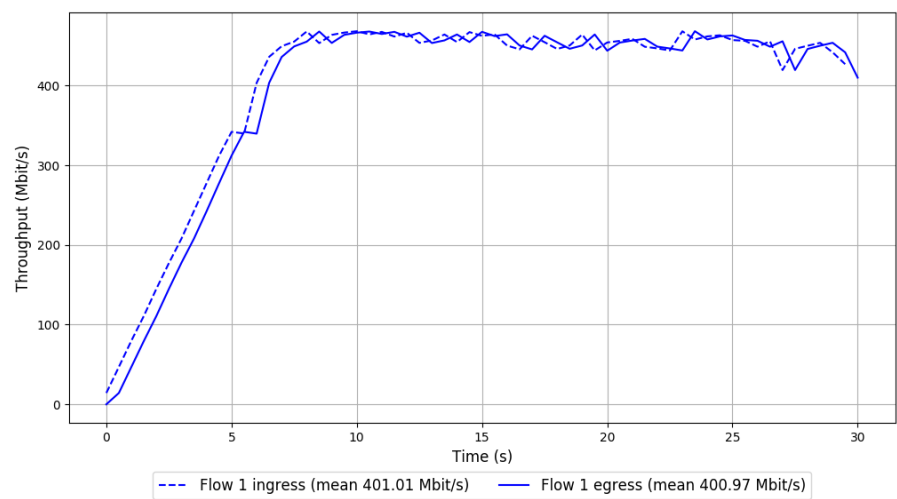
-- Flow 1:

Average throughput: 400.97 Mbit/s

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

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-30 06:40:54

End at: 2018-06-30 06:41:24

Local clock offset: -0.041 ms

Remote clock offset: 10.128 ms

Below is generated by plot.py at 2018-06-30 12:00:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 916.33 Mbit/s

95th percentile per-packet one-way delay: 2.176 ms

Loss rate: 0.06%

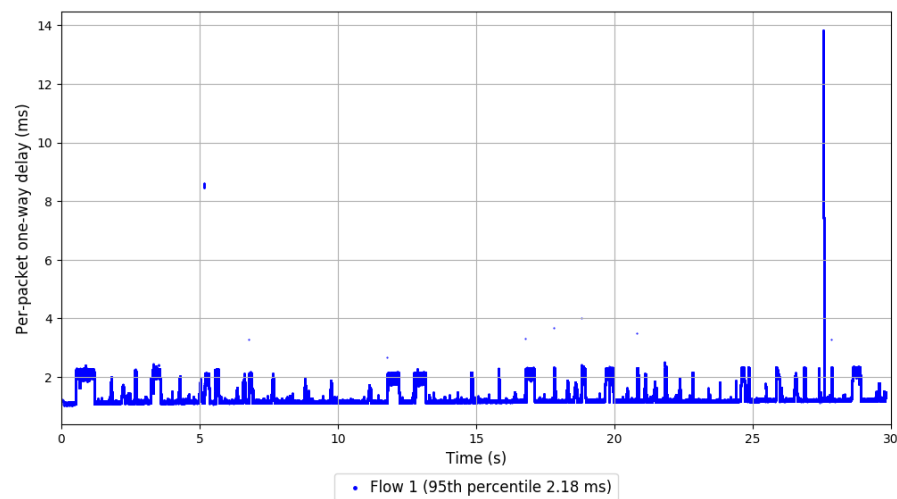
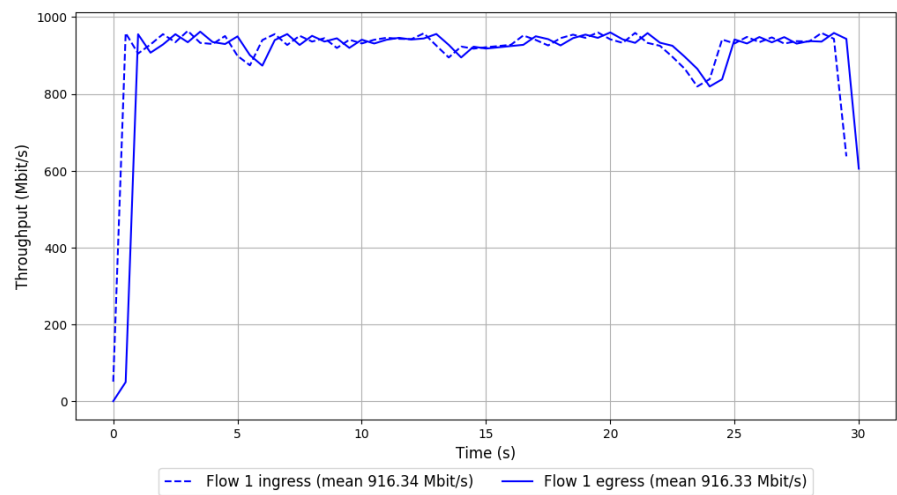
-- Flow 1:

Average throughput: 916.33 Mbit/s

95th percentile per-packet one-way delay: 2.176 ms

Loss rate: 0.06%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-30 07:06:34

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

Local clock offset: 0.056 ms

Remote clock offset: 3.214 ms

Below is generated by plot.py at 2018-06-30 12:01:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.89 Mbit/s

95th percentile per-packet one-way delay: 1.667 ms

Loss rate: 0.07%

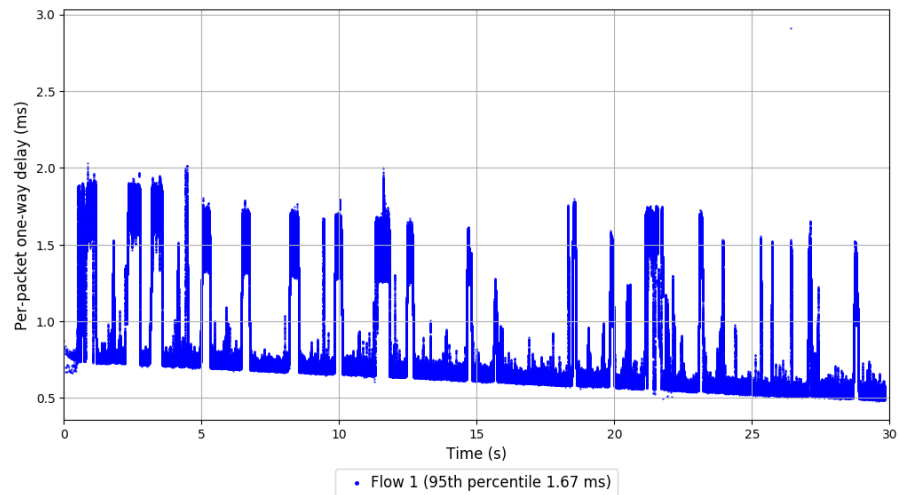
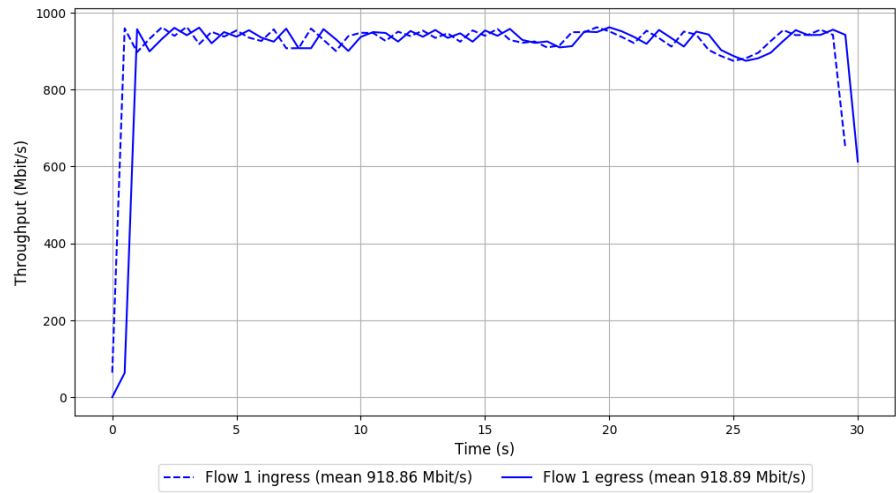
-- Flow 1:

Average throughput: 918.89 Mbit/s

95th percentile per-packet one-way delay: 1.667 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-30 07:32:15

End at: 2018-06-30 07:32:45

Local clock offset: 3.008 ms

Remote clock offset: -1.757 ms

Below is generated by plot.py at 2018-06-30 12:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.59 Mbit/s

95th percentile per-packet one-way delay: 2.206 ms

Loss rate: 0.06%

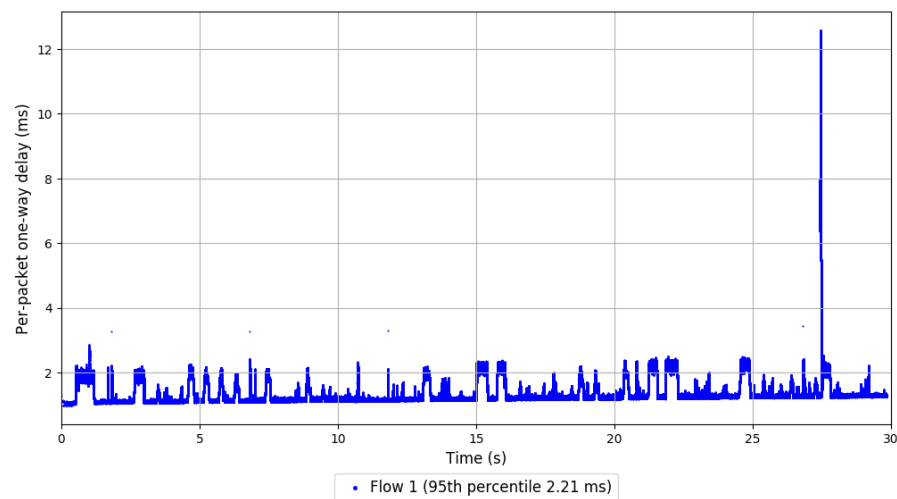
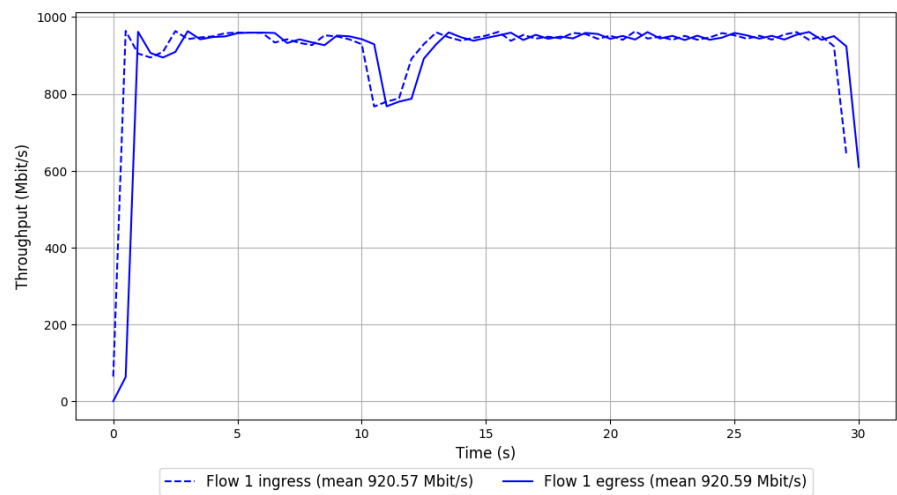
-- Flow 1:

Average throughput: 920.59 Mbit/s

95th percentile per-packet one-way delay: 2.206 ms

Loss rate: 0.06%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-30 07:57:47

End at: 2018-06-30 07:58:18

Local clock offset: 3.452 ms

Remote clock offset: 2.55 ms

Below is generated by plot.py at 2018-06-30 12:03:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.66 Mbit/s

95th percentile per-packet one-way delay: 1.832 ms

Loss rate: 0.07%

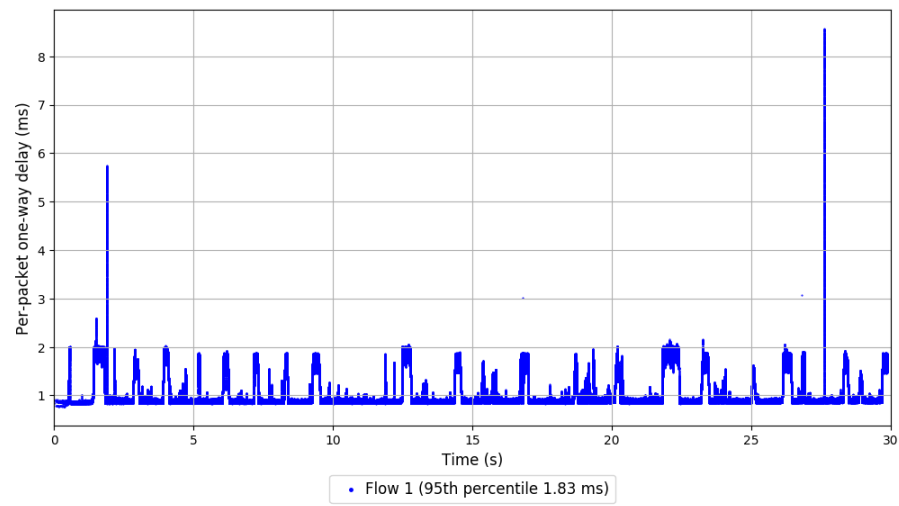
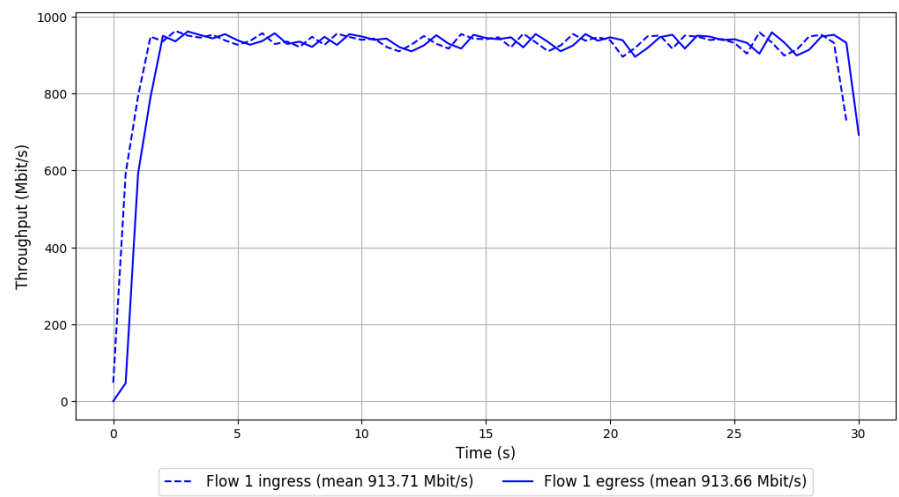
-- Flow 1:

Average throughput: 913.66 Mbit/s

95th percentile per-packet one-way delay: 1.832 ms

Loss rate: 0.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-30 08:23:28

End at: 2018-06-30 08:23:58

Local clock offset: 1.278 ms

Remote clock offset: -0.423 ms

Below is generated by plot.py at 2018-06-30 12:04:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.53 Mbit/s

95th percentile per-packet one-way delay: 2.233 ms

Loss rate: 0.06%

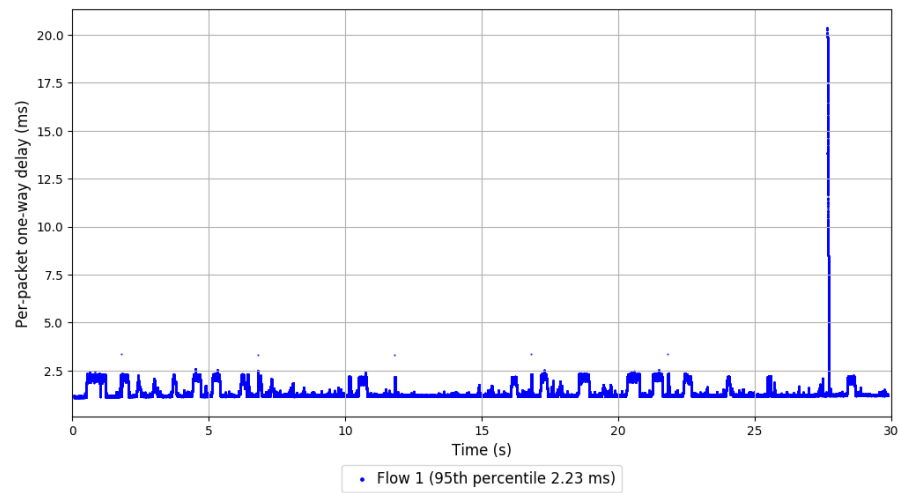
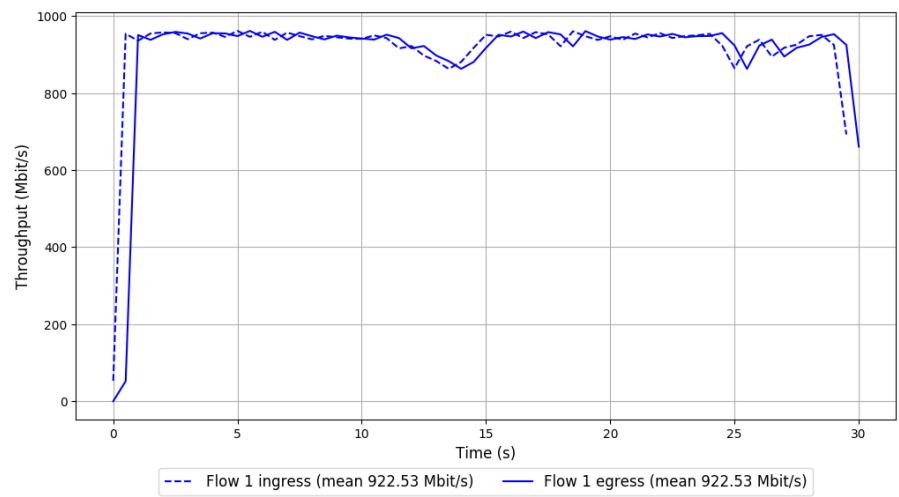
-- Flow 1:

Average throughput: 922.53 Mbit/s

95th percentile per-packet one-way delay: 2.233 ms

Loss rate: 0.06%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-30 08:49:06

End at: 2018-06-30 08:49:36

Local clock offset: -0.597 ms

Remote clock offset: 1.754 ms

Below is generated by plot.py at 2018-06-30 12:05:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.55 Mbit/s

95th percentile per-packet one-way delay: 1.915 ms

Loss rate: 0.07%

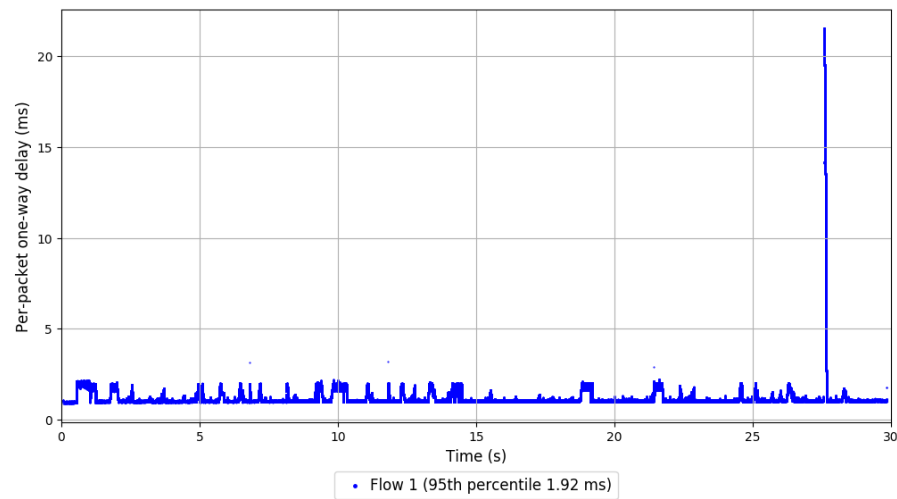
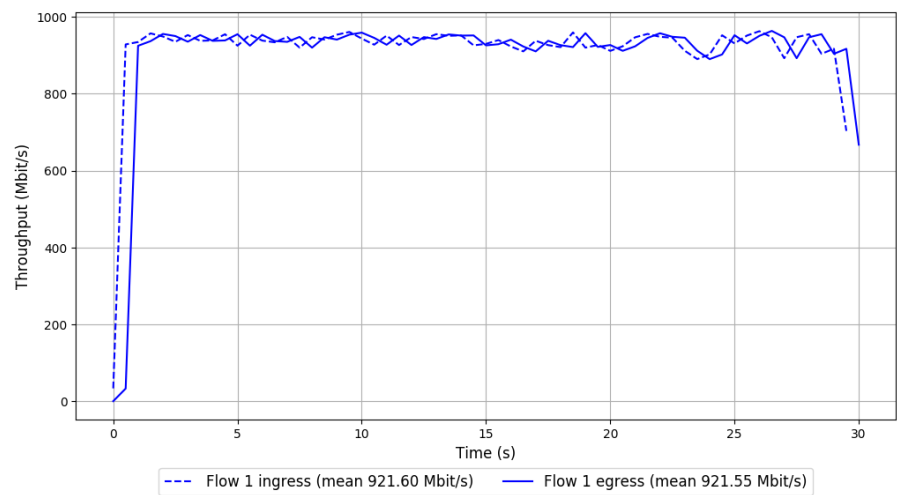
-- Flow 1:

Average throughput: 921.55 Mbit/s

95th percentile per-packet one-way delay: 1.915 ms

Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-30 09:14:36

End at: 2018-06-30 09:15:06

Local clock offset: -0.367 ms

Remote clock offset: 2.793 ms

Below is generated by plot.py at 2018-06-30 12:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 928.91 Mbit/s

95th percentile per-packet one-way delay: 1.933 ms

Loss rate: 0.07%

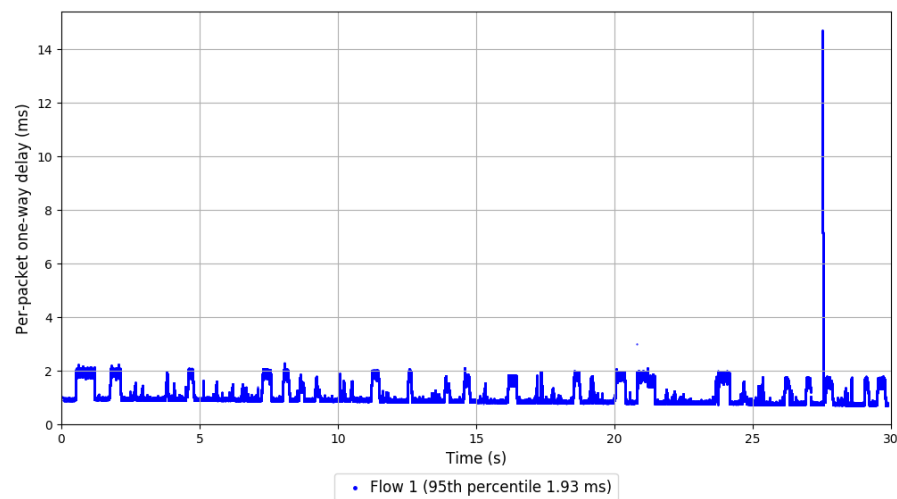
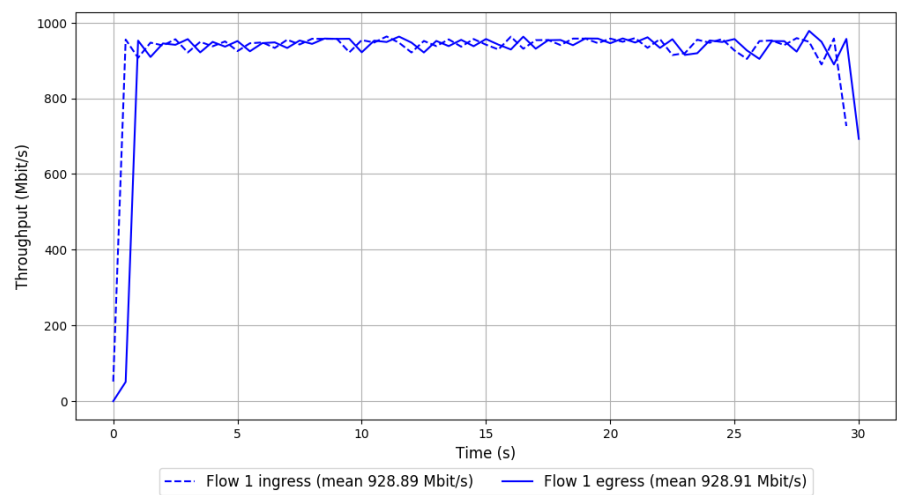
-- Flow 1:

Average throughput: 928.91 Mbit/s

95th percentile per-packet one-way delay: 1.933 ms

Loss rate: 0.07%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-30 09:40:01

End at: 2018-06-30 09:40:31

Local clock offset: 0.303 ms

Remote clock offset: -2.152 ms

Below is generated by plot.py at 2018-06-30 12:05:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.05 Mbit/s

95th percentile per-packet one-way delay: 1.860 ms

Loss rate: 0.07%

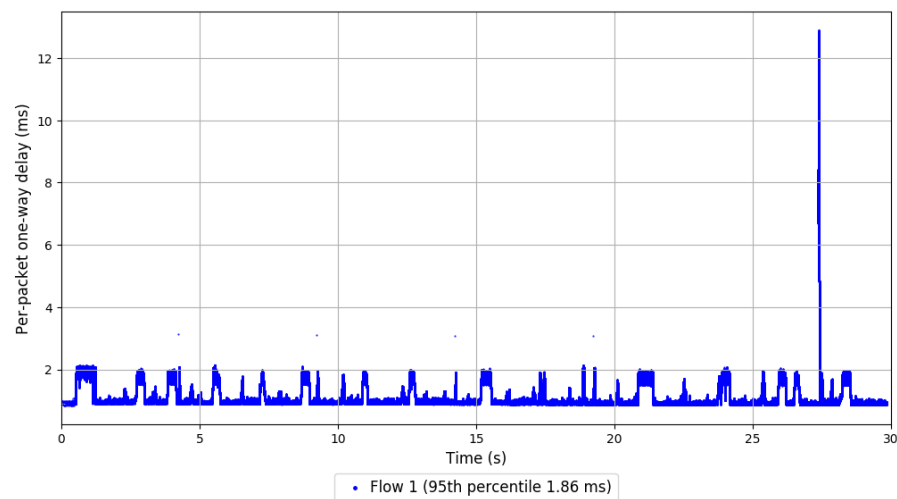
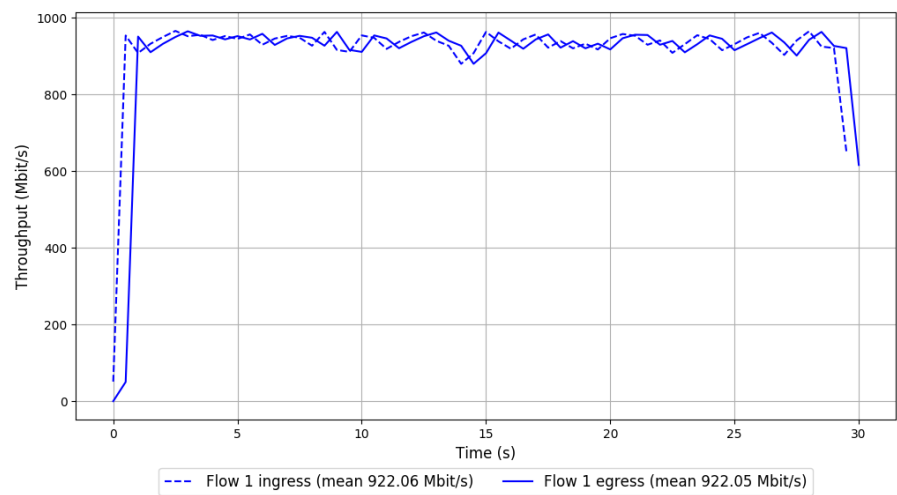
-- Flow 1:

Average throughput: 922.05 Mbit/s

95th percentile per-packet one-way delay: 1.860 ms

Loss rate: 0.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-30 10:05:29

End at: 2018-06-30 10:05:59

Local clock offset: 3.896 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-06-30 12:12:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.59 Mbit/s

95th percentile per-packet one-way delay: 2.054 ms

Loss rate: 0.07%

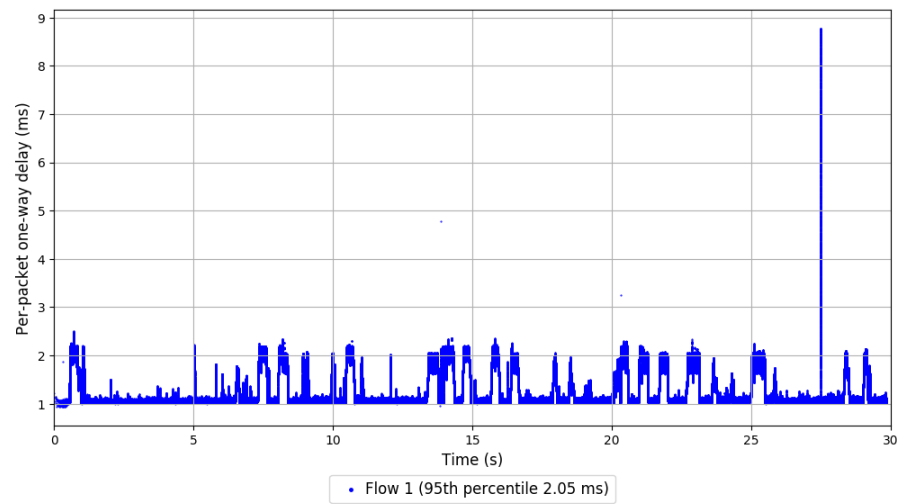
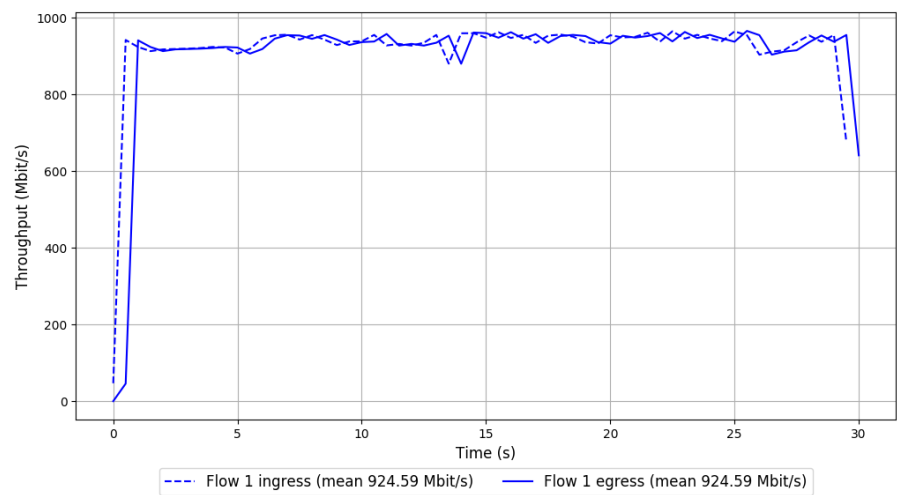
-- Flow 1:

Average throughput: 924.59 Mbit/s

95th percentile per-packet one-way delay: 2.054 ms

Loss rate: 0.07%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-30 10:31:05

End at: 2018-06-30 10:31:35

Local clock offset: 5.218 ms

Remote clock offset: 0.662 ms

Below is generated by plot.py at 2018-06-30 12:12:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.51 Mbit/s

95th percentile per-packet one-way delay: 1.786 ms

Loss rate: 0.07%

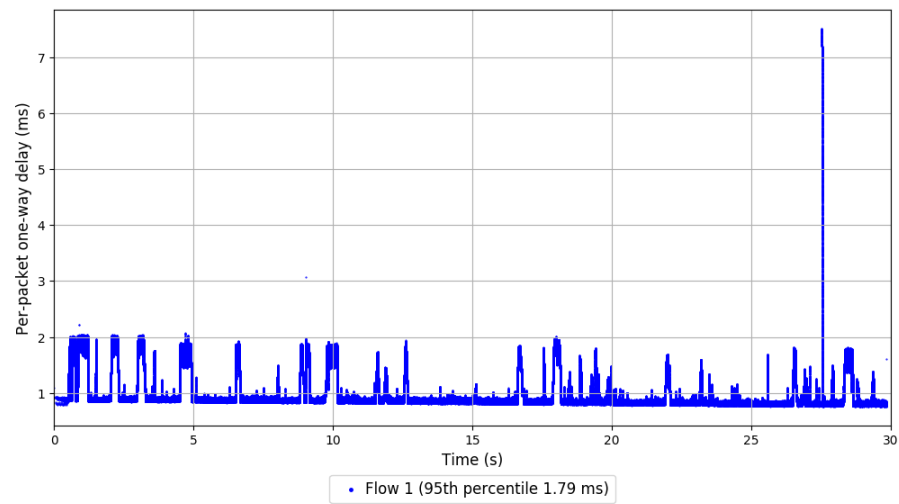
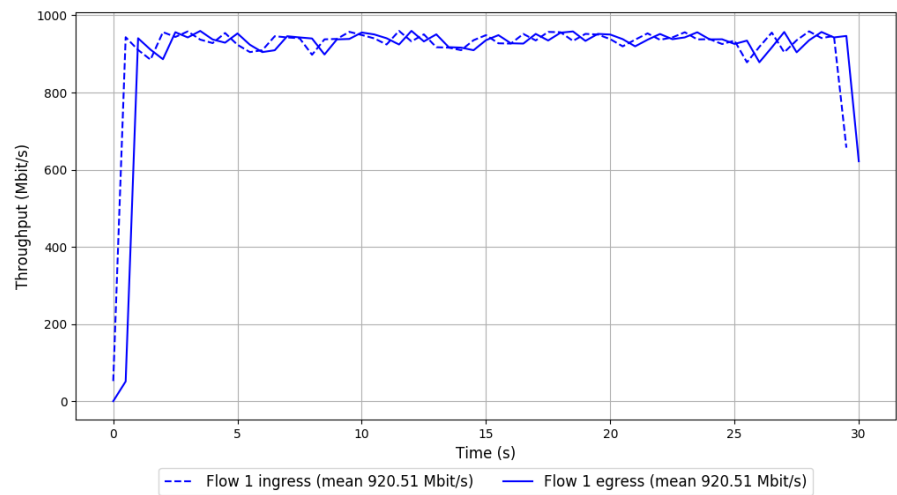
-- Flow 1:

Average throughput: 920.51 Mbit/s

95th percentile per-packet one-way delay: 1.786 ms

Loss rate: 0.07%

Run 10: Report of PCC-Allegro — Data Link

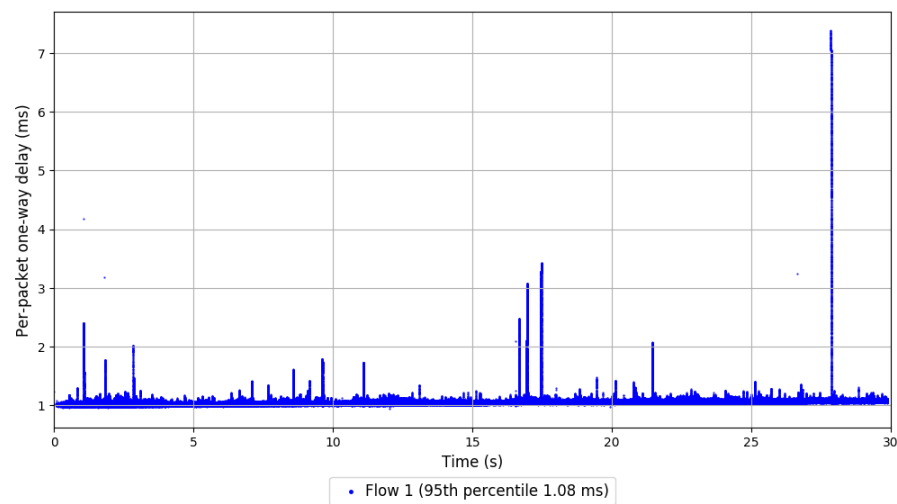
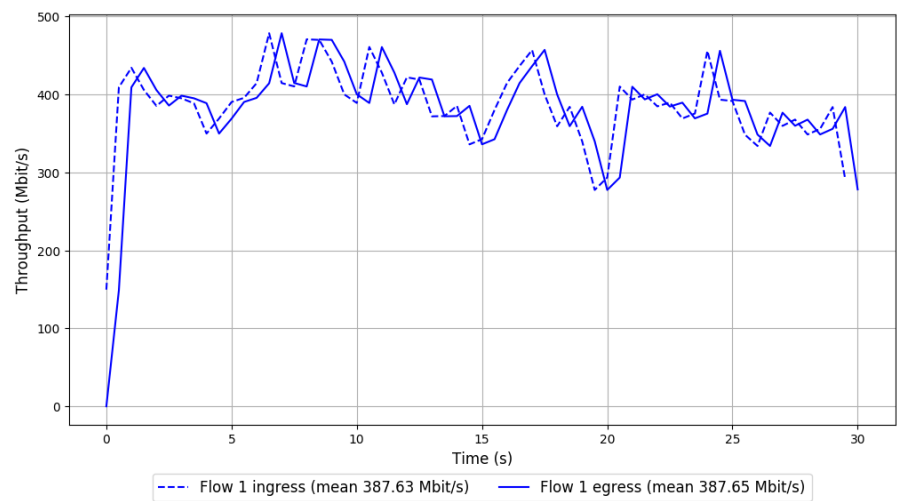


Run 1: Statistics of PCC-Expr

Start at: 2018-06-30 06:54:43
End at: 2018-06-30 06:55:13
Local clock offset: 0.053 ms
Remote clock offset: 12.396 ms

Below is generated by plot.py at 2018-06-30 12:12:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 387.65 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 387.65 Mbit/s
95th percentile per-packet one-way delay: 1.084 ms
Loss rate: 0.06%

Run 1: Report of PCC-Expr — Data Link

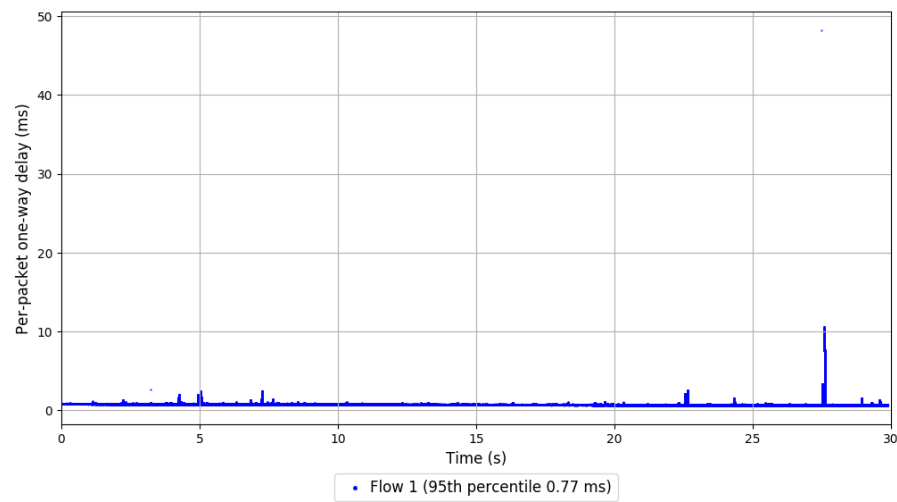
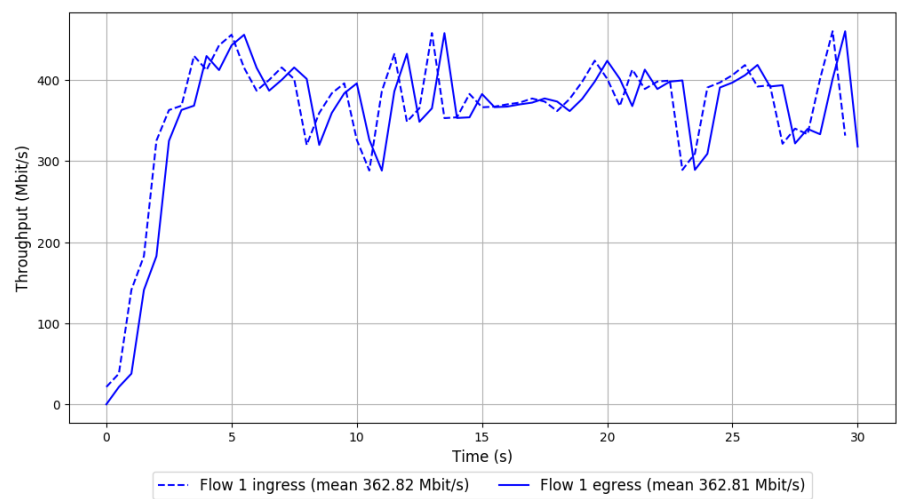


Run 2: Statistics of PCC-Expr

Start at: 2018-06-30 07:20:21
End at: 2018-06-30 07:20:51
Local clock offset: 1.388 ms
Remote clock offset: -1.127 ms

Below is generated by plot.py at 2018-06-30 12:12:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 362.81 Mbit/s
95th percentile per-packet one-way delay: 0.773 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 362.81 Mbit/s
95th percentile per-packet one-way delay: 0.773 ms
Loss rate: 0.07%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-30 07:46:04

End at: 2018-06-30 07:46:34

Local clock offset: 3.844 ms

Remote clock offset: 1.825 ms

Below is generated by plot.py at 2018-06-30 12:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.05 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.06%

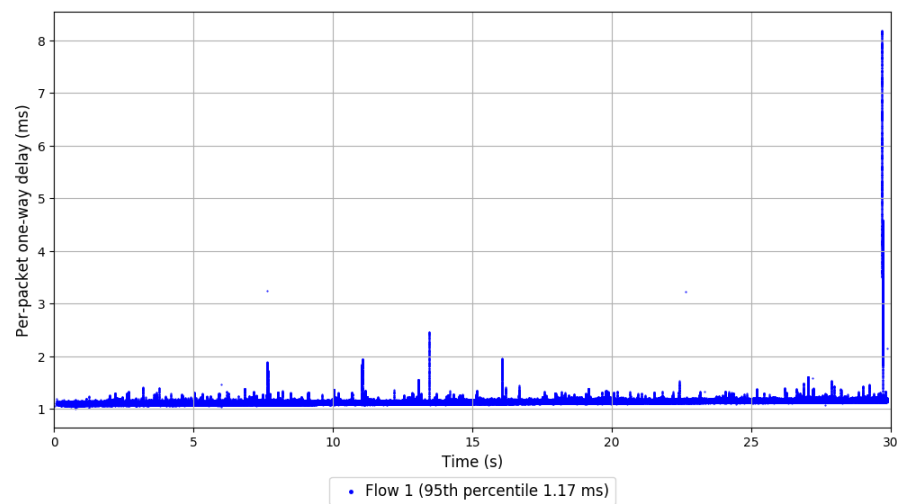
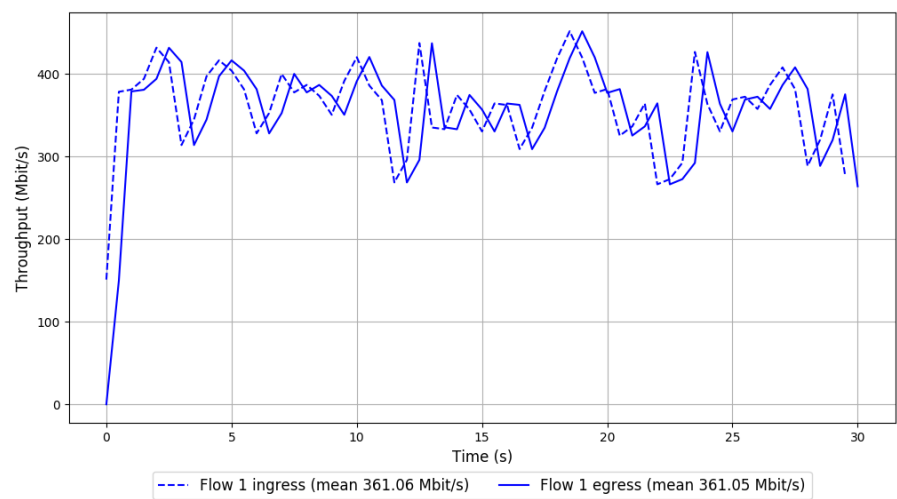
-- Flow 1:

Average throughput: 361.05 Mbit/s

95th percentile per-packet one-way delay: 1.174 ms

Loss rate: 0.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-30 08:11:37

End at: 2018-06-30 08:12:07

Local clock offset: 3.662 ms

Remote clock offset: 1.013 ms

Below is generated by plot.py at 2018-06-30 12:13:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.55 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.07%

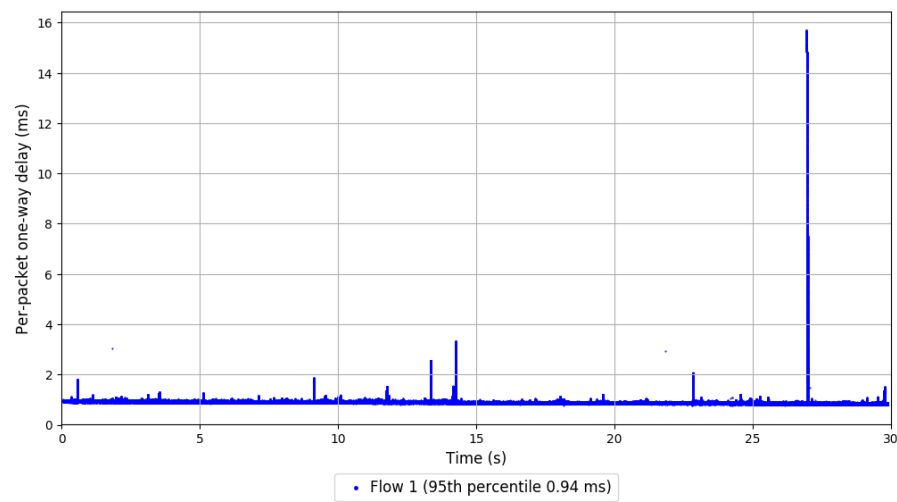
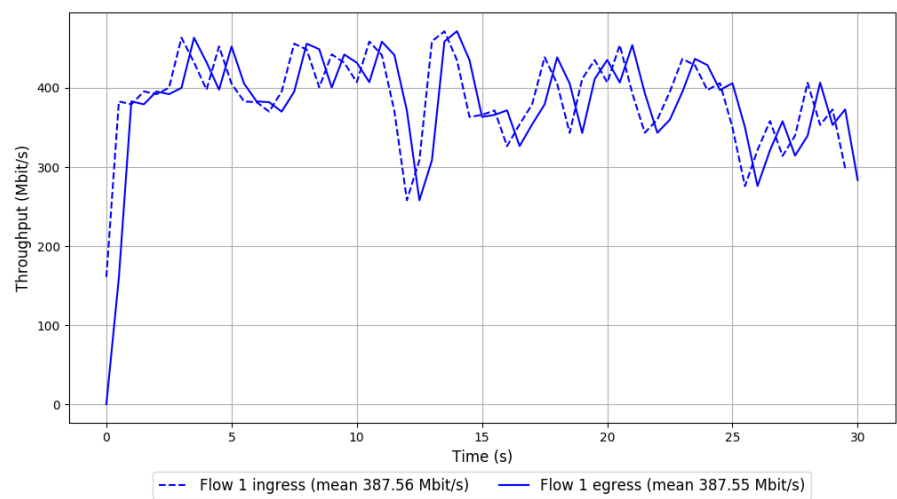
-- Flow 1:

Average throughput: 387.55 Mbit/s

95th percentile per-packet one-way delay: 0.939 ms

Loss rate: 0.07%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-30 08:37:18

End at: 2018-06-30 08:37:48

Local clock offset: -0.285 ms

Remote clock offset: -1.16 ms

Below is generated by plot.py at 2018-06-30 12:13:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.27 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.08%

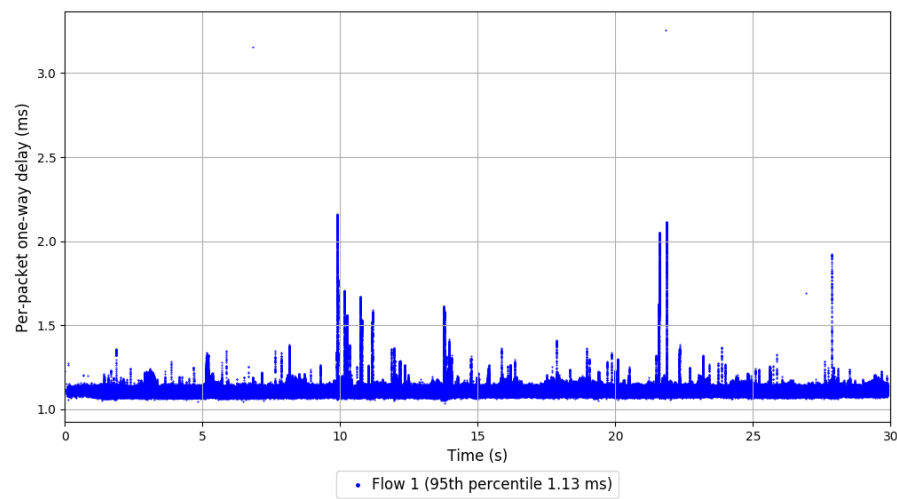
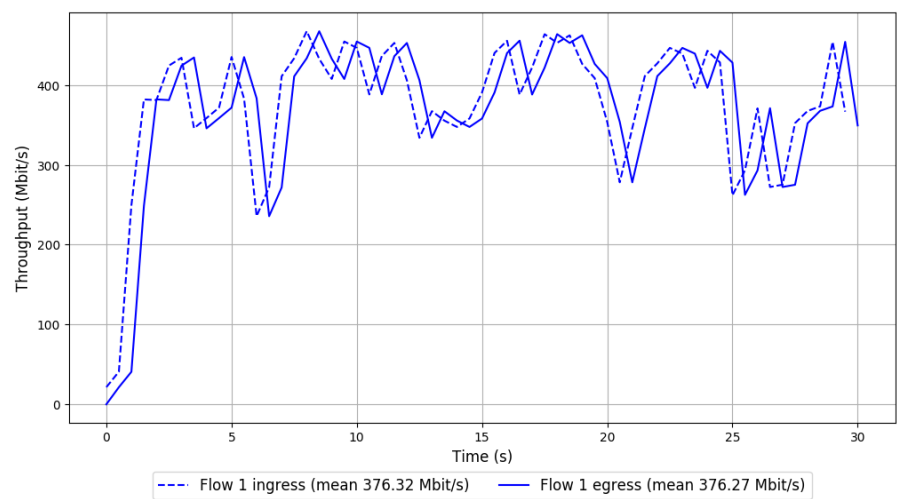
-- Flow 1:

Average throughput: 376.27 Mbit/s

95th percentile per-packet one-way delay: 1.133 ms

Loss rate: 0.08%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-30 09:02:55

End at: 2018-06-30 09:03:25

Local clock offset: -0.242 ms

Remote clock offset: 3.026 ms

Below is generated by plot.py at 2018-06-30 12:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.21 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.07%

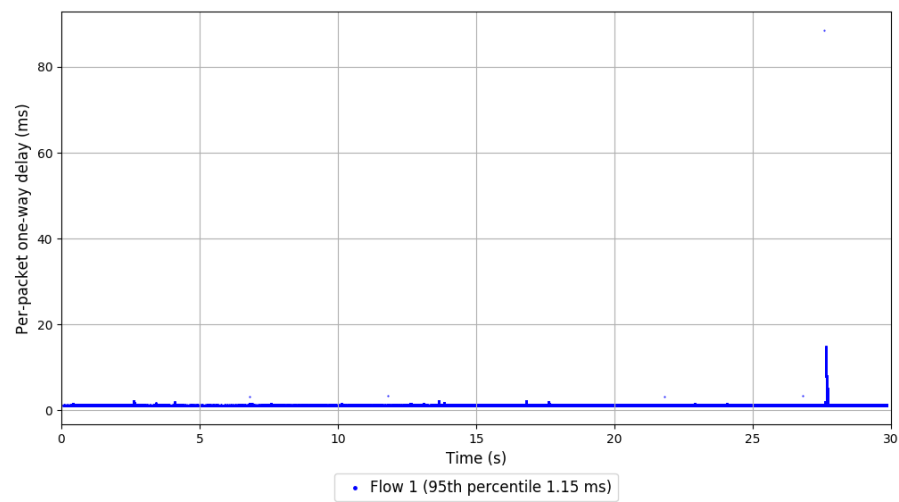
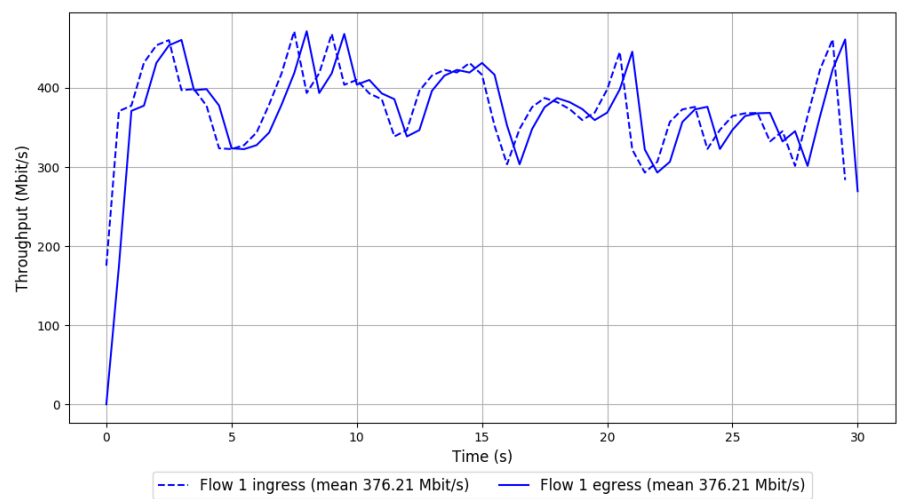
-- Flow 1:

Average throughput: 376.21 Mbit/s

95th percentile per-packet one-way delay: 1.150 ms

Loss rate: 0.07%

Run 6: Report of PCC-Expr — Data Link

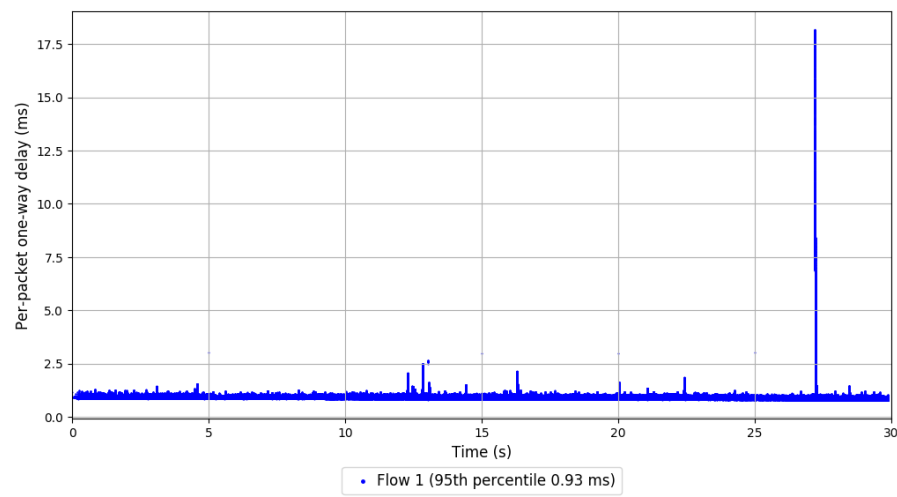
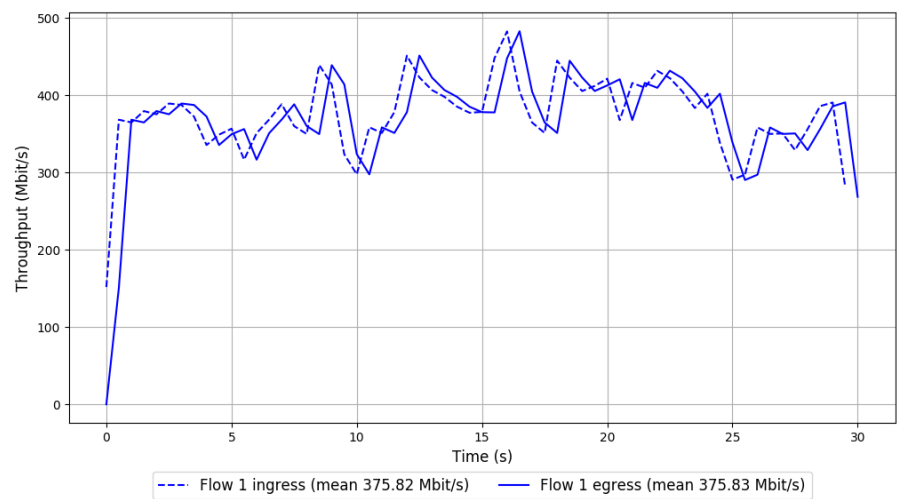


Run 7: Statistics of PCC-Expr

Start at: 2018-06-30 09:28:23
End at: 2018-06-30 09:28:53
Local clock offset: 0.208 ms
Remote clock offset: -0.877 ms

Below is generated by plot.py at 2018-06-30 12:19:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 375.83 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 375.83 Mbit/s
95th percentile per-packet one-way delay: 0.932 ms
Loss rate: 0.06%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-30 09:53:48

End at: 2018-06-30 09:54:18

Local clock offset: 2.458 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2018-06-30 12:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.10 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.06%

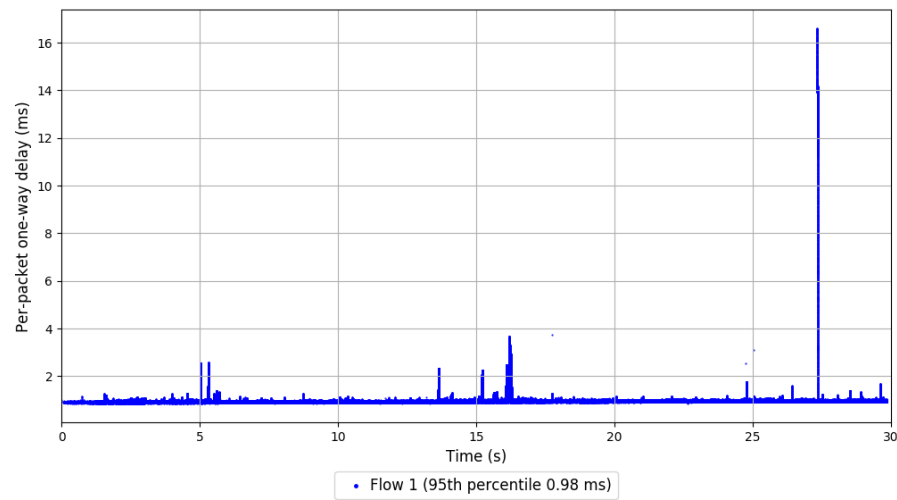
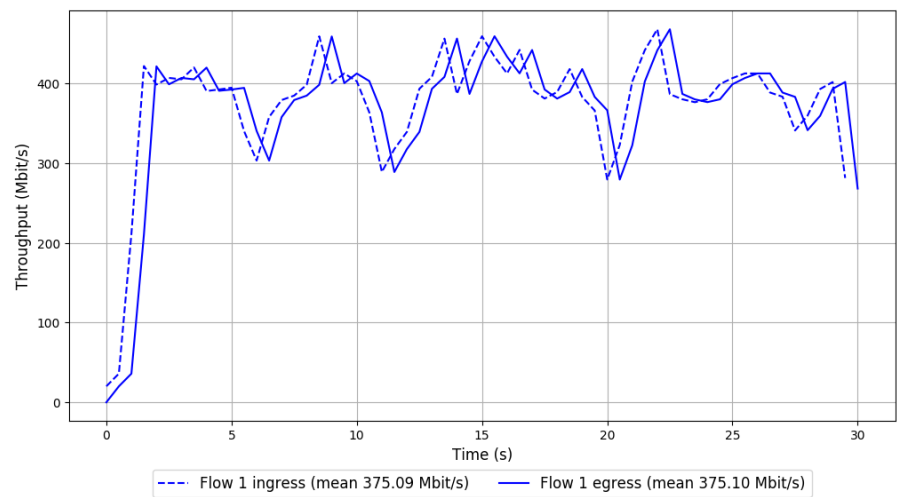
-- Flow 1:

Average throughput: 375.10 Mbit/s

95th percentile per-packet one-way delay: 0.981 ms

Loss rate: 0.06%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-30 10:19:18

End at: 2018-06-30 10:19:48

Local clock offset: 4.703 ms

Remote clock offset: 3.16 ms

Below is generated by plot.py at 2018-06-30 12:19:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.22 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.07%

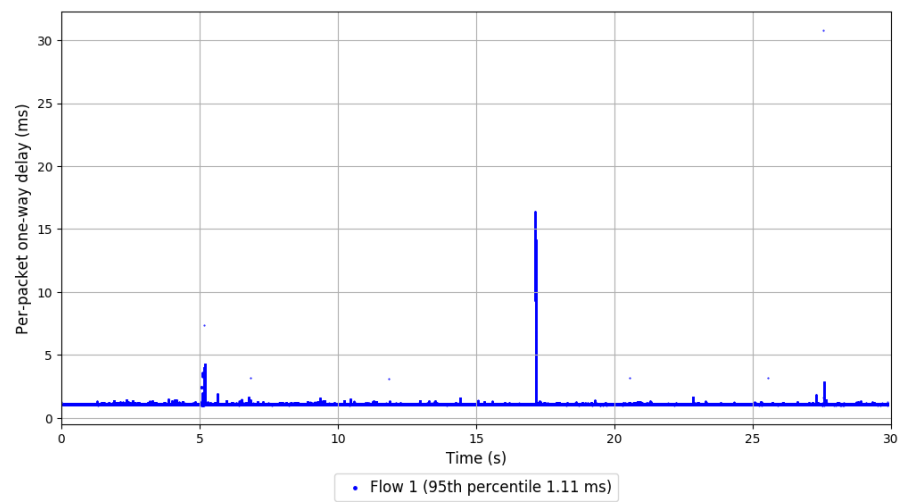
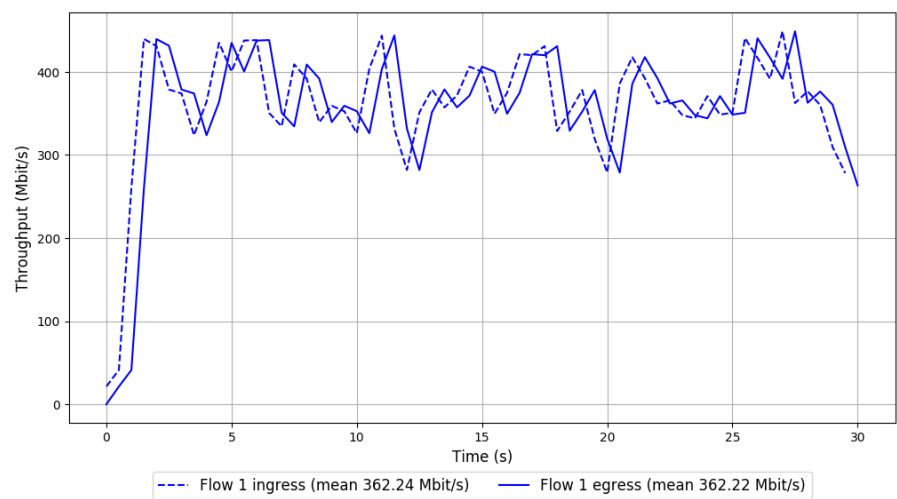
-- Flow 1:

Average throughput: 362.22 Mbit/s

95th percentile per-packet one-way delay: 1.107 ms

Loss rate: 0.07%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-30 10:44:56

End at: 2018-06-30 10:45:26

Local clock offset: 5.698 ms

Remote clock offset: -0.846 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 365.50 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.07%

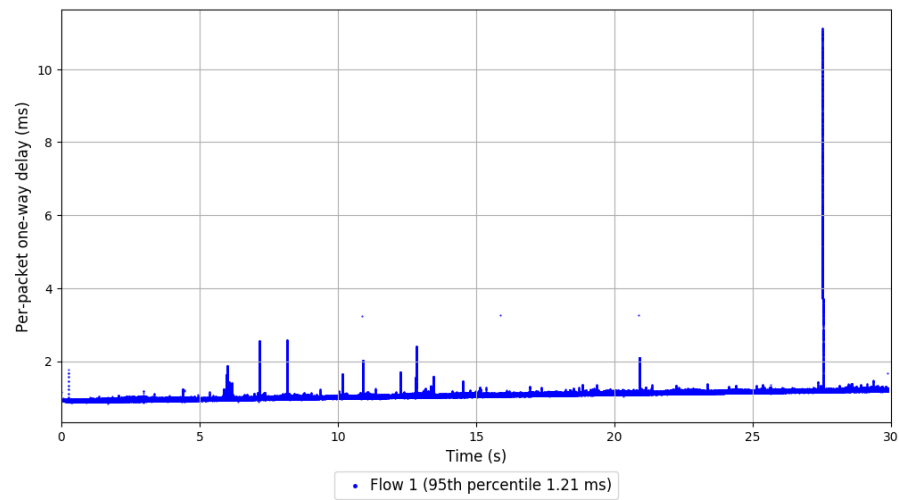
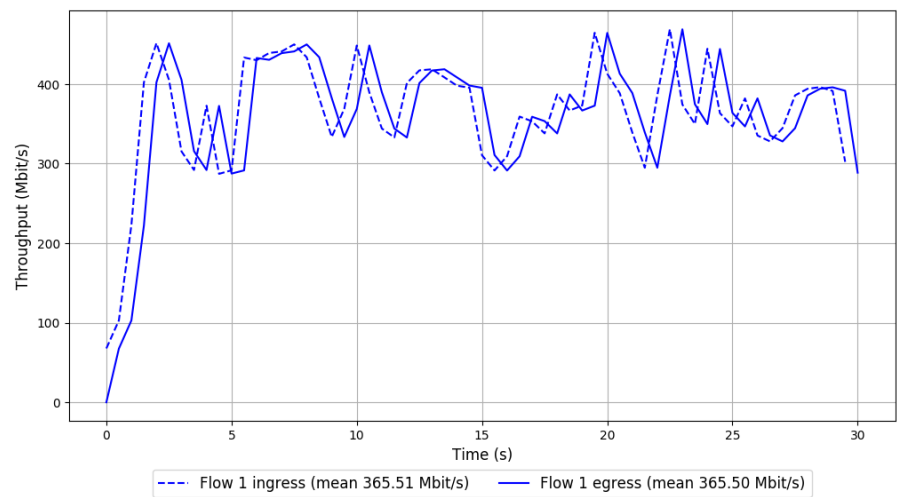
-- Flow 1:

Average throughput: 365.50 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.07%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-30 06:33:46

End at: 2018-06-30 06:34:16

Local clock offset: 0.022 ms

Remote clock offset: 9.019 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.97 Mbit/s

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

Loss rate: 0.07%

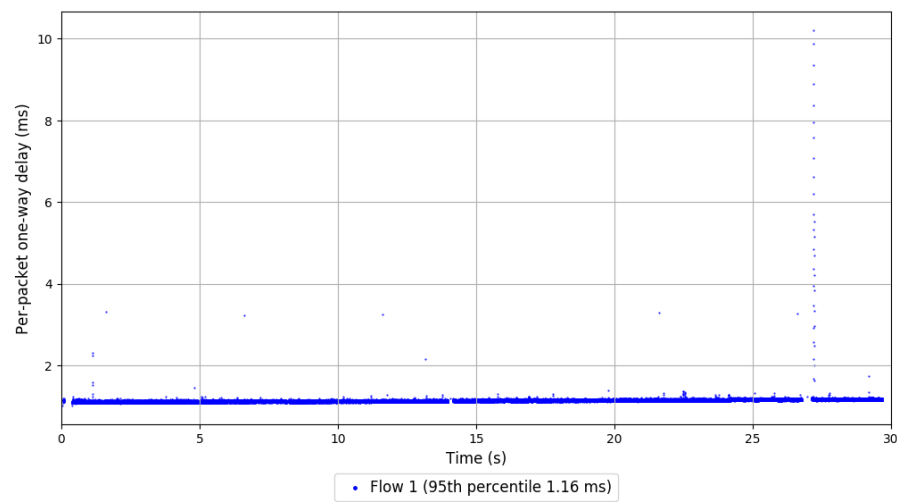
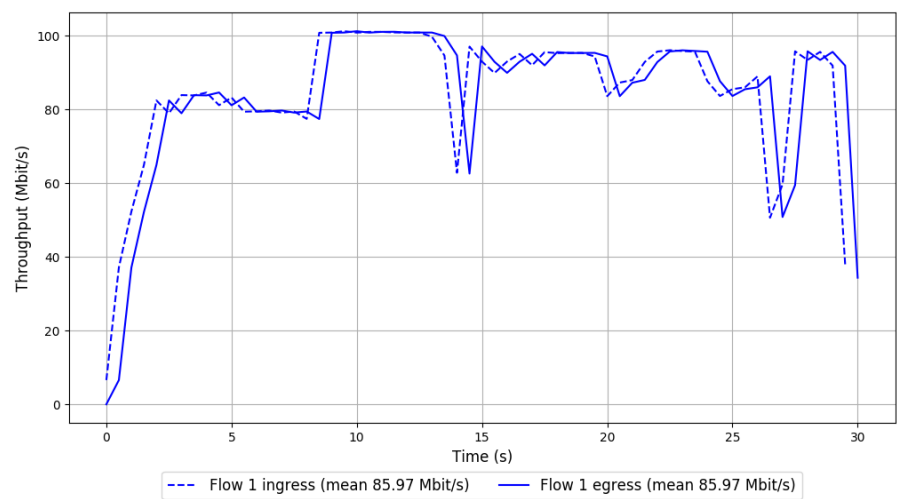
-- Flow 1:

Average throughput: 85.97 Mbit/s

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

Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-30 06:59:25

End at: 2018-06-30 06:59:55

Local clock offset: 0.173 ms

Remote clock offset: 9.14 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 0.645 ms

Loss rate: 0.06%

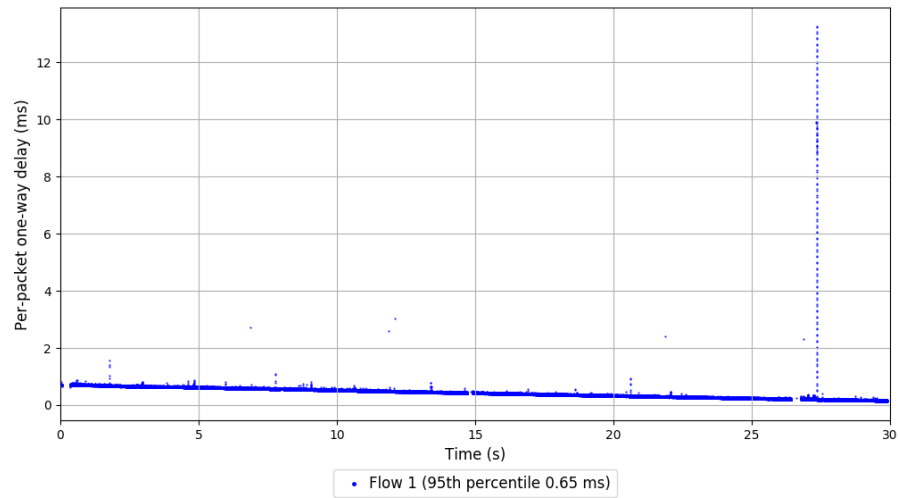
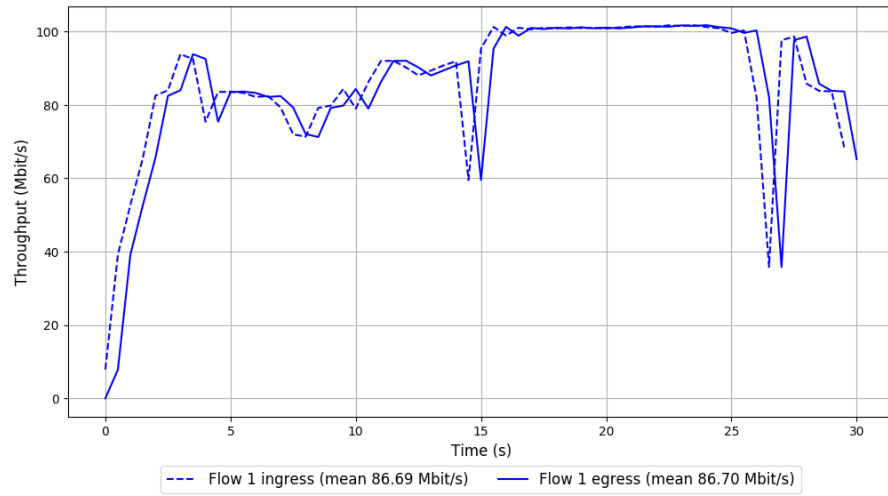
-- Flow 1:

Average throughput: 86.70 Mbit/s

95th percentile per-packet one-way delay: 0.645 ms

Loss rate: 0.06%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-30 07:25:02

End at: 2018-06-30 07:25:32

Local clock offset: 2.325 ms

Remote clock offset: -1.841 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.07%

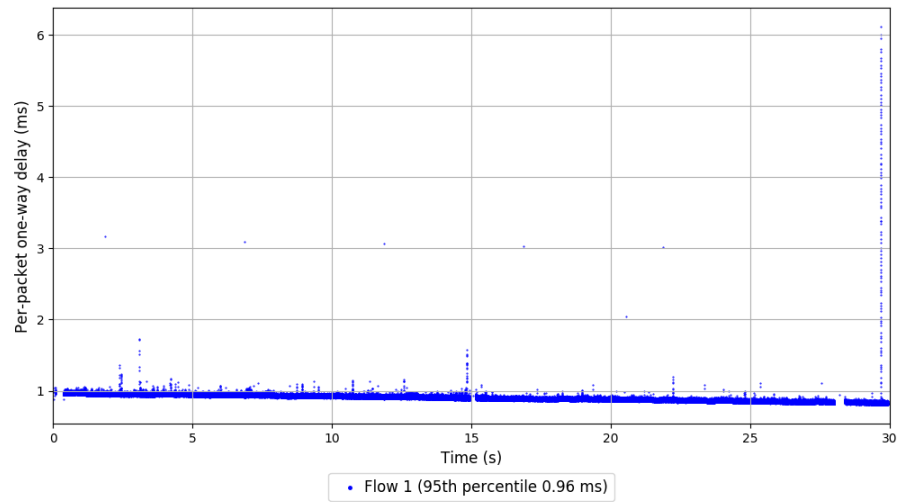
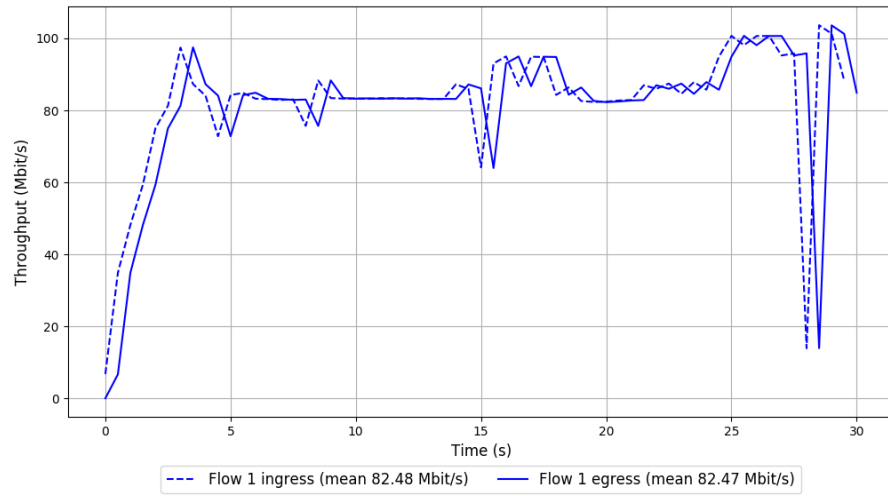
-- Flow 1:

Average throughput: 82.47 Mbit/s

95th percentile per-packet one-way delay: 0.957 ms

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-30 07:50:40

End at: 2018-06-30 07:51:10

Local clock offset: 3.647 ms

Remote clock offset: 2.188 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.87 Mbit/s

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

Loss rate: 0.07%

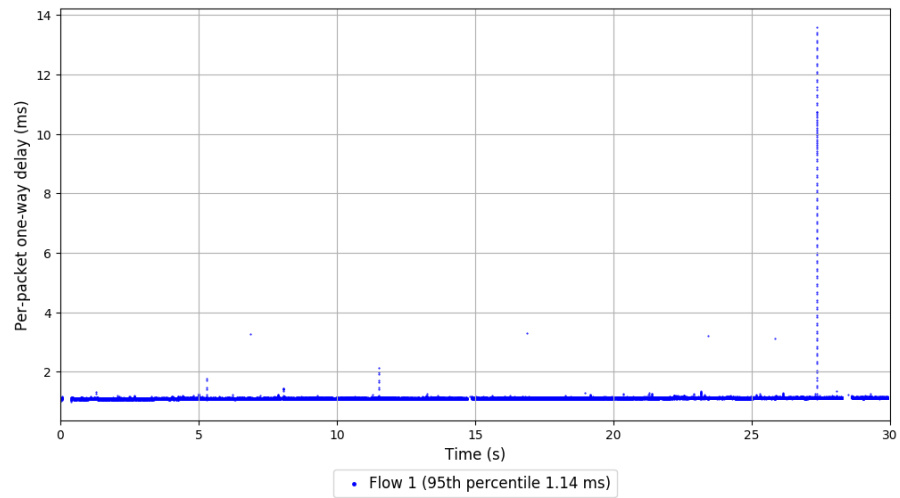
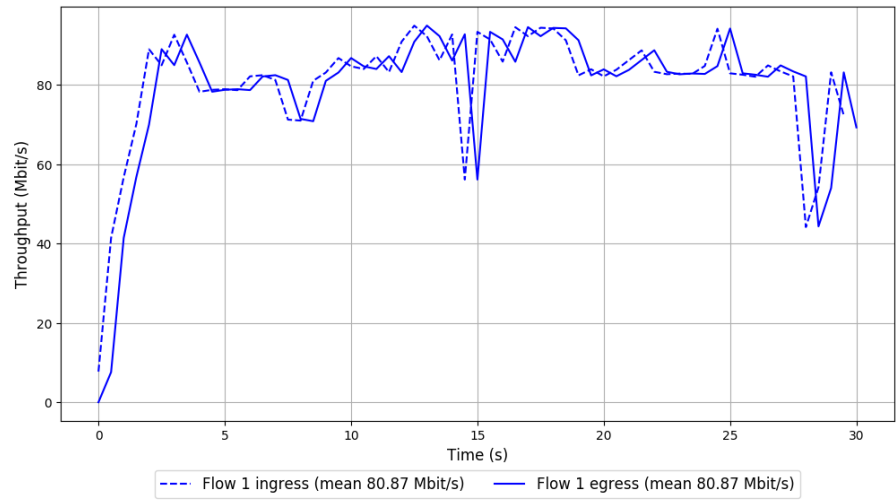
-- Flow 1:

Average throughput: 80.87 Mbit/s

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

Loss rate: 0.07%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-30 08:16:19

End at: 2018-06-30 08:16:49

Local clock offset: 3.472 ms

Remote clock offset: 0.235 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 1.484 ms

Loss rate: 0.07%

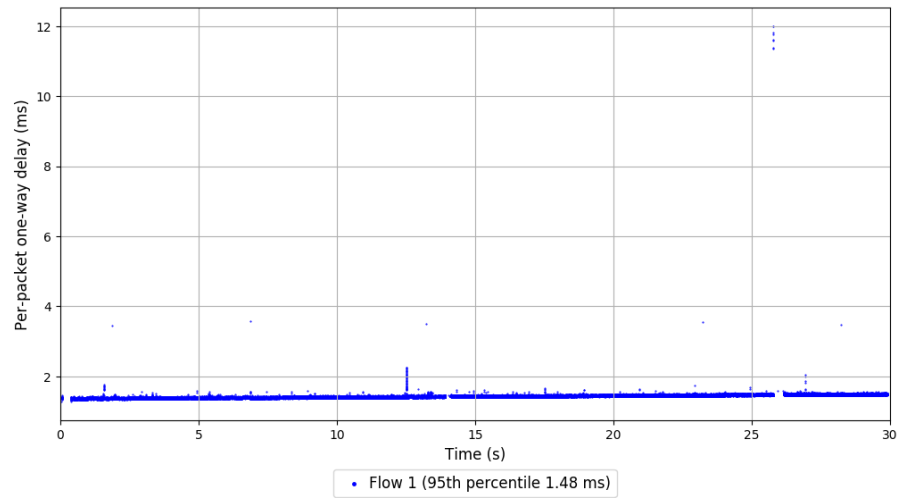
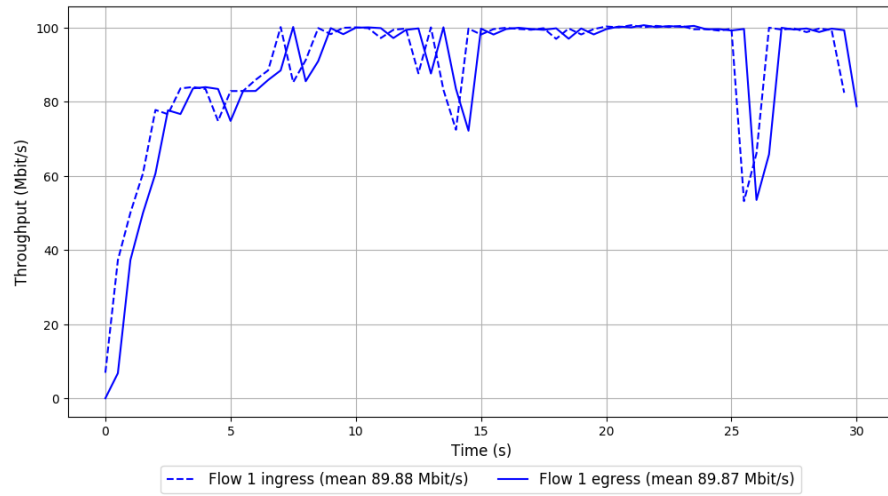
-- Flow 1:

Average throughput: 89.87 Mbit/s

95th percentile per-packet one-way delay: 1.484 ms

Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-30 08:41:56

End at: 2018-06-30 08:42:26

Local clock offset: -0.675 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.07%

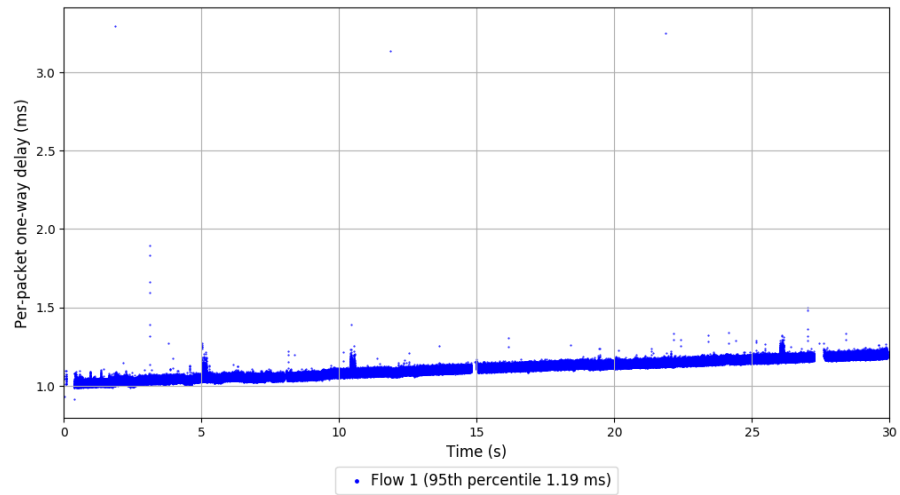
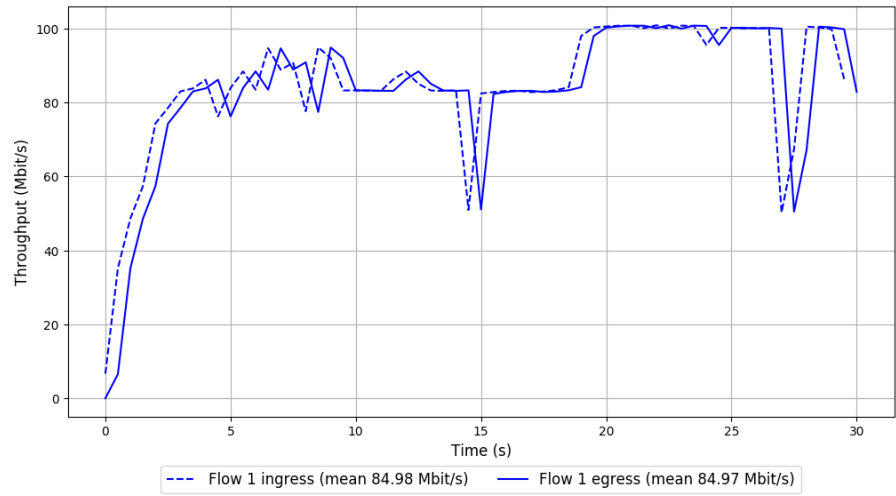
-- Flow 1:

Average throughput: 84.97 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-30 09:07:30

End at: 2018-06-30 09:08:00

Local clock offset: -0.371 ms

Remote clock offset: 3.248 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.07%

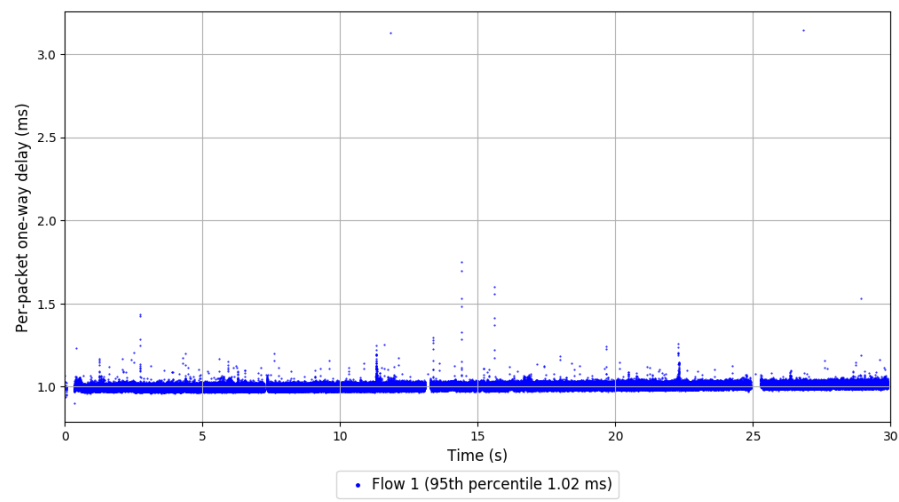
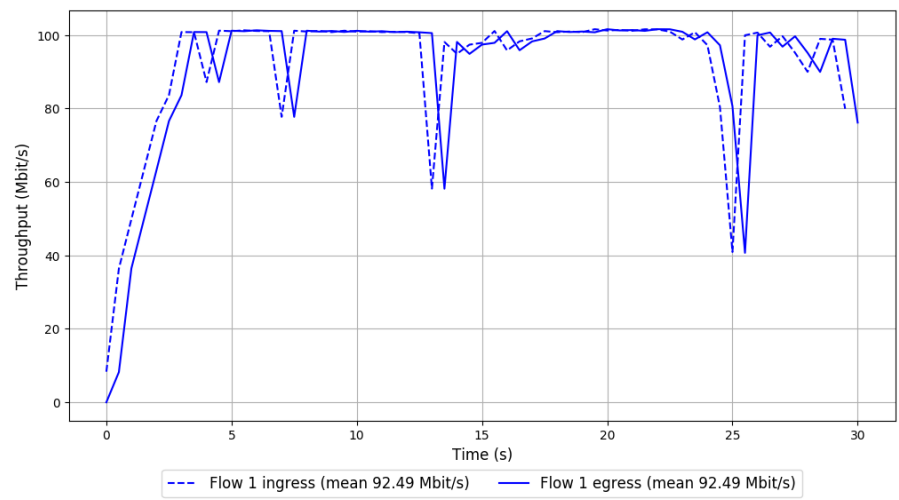
-- Flow 1:

Average throughput: 92.49 Mbit/s

95th percentile per-packet one-way delay: 1.024 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-30 09:32:56

End at: 2018-06-30 09:33:26

Local clock offset: 0.366 ms

Remote clock offset: -1.495 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.50 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.06%

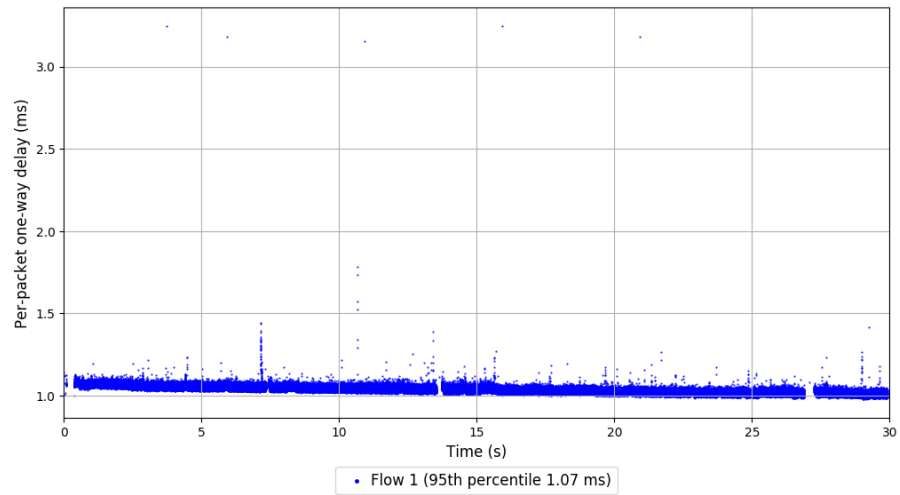
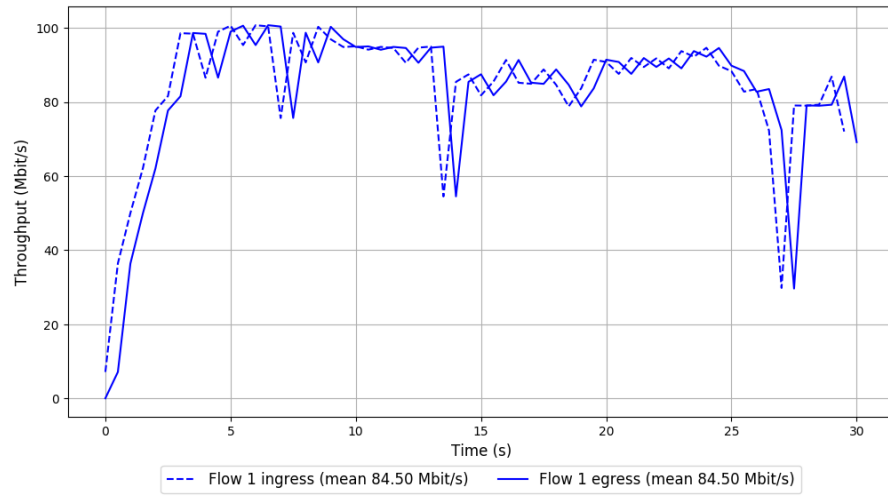
-- Flow 1:

Average throughput: 84.50 Mbit/s

95th percentile per-packet one-way delay: 1.069 ms

Loss rate: 0.06%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-30 09:58:24

End at: 2018-06-30 09:58:54

Local clock offset: 3.108 ms

Remote clock offset: 1.444 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.06%

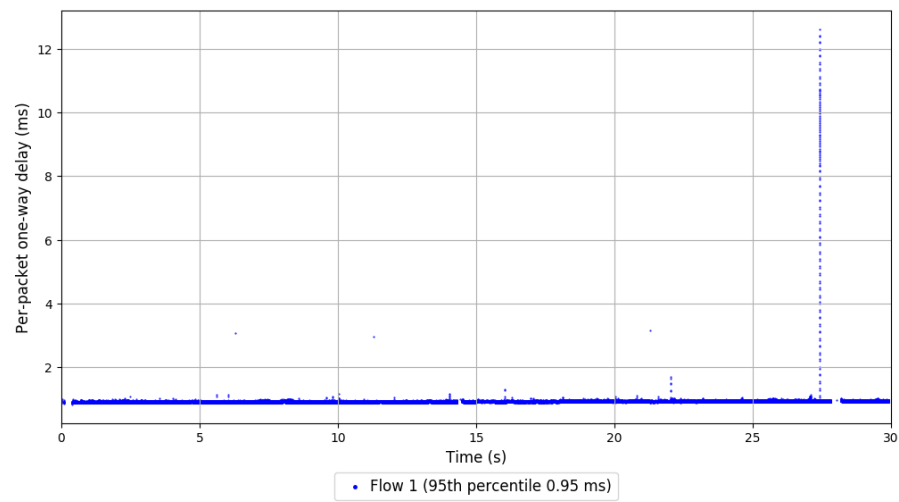
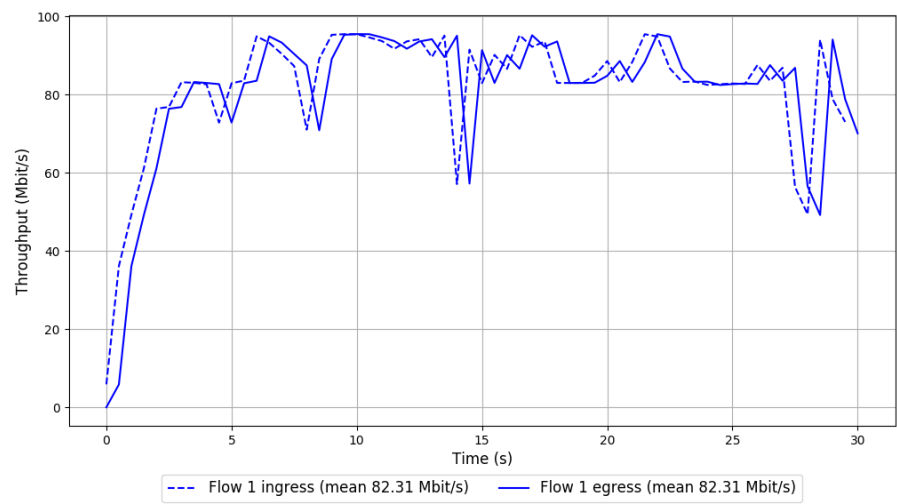
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 0.950 ms

Loss rate: 0.06%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-30 10:23:55

End at: 2018-06-30 10:24:25

Local clock offset: 4.905 ms

Remote clock offset: 2.341 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 0.910 ms

Loss rate: 0.06%

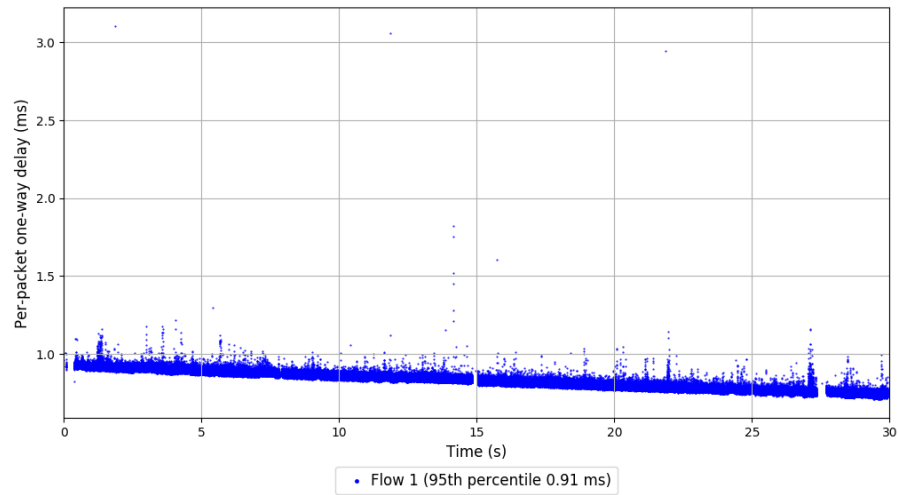
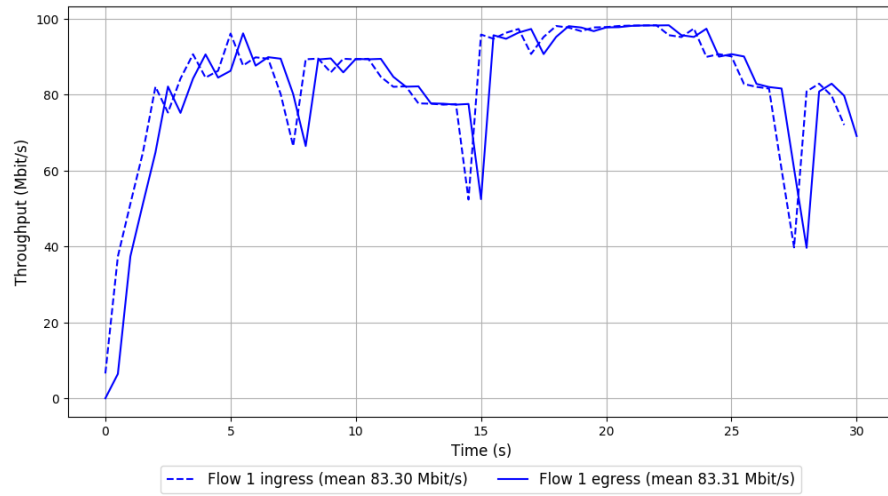
-- Flow 1:

Average throughput: 83.31 Mbit/s

95th percentile per-packet one-way delay: 0.910 ms

Loss rate: 0.06%

Run 10: Report of QUIC Cubic — Data Link

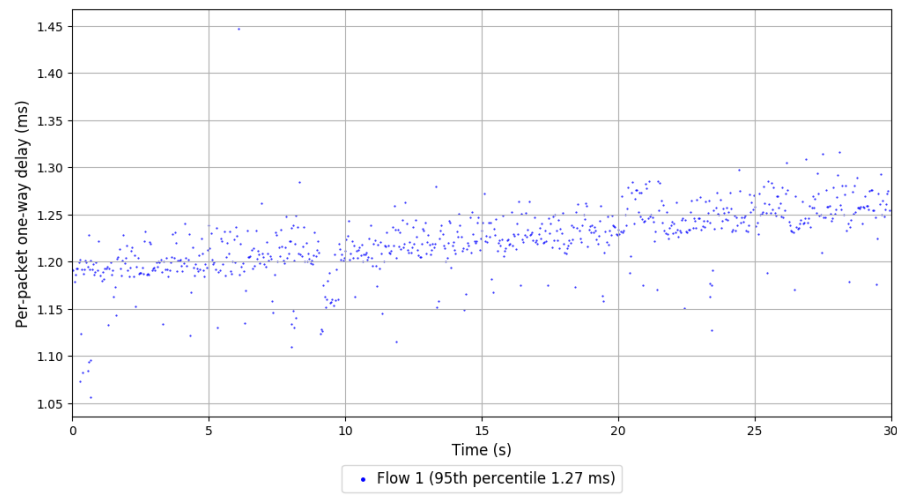
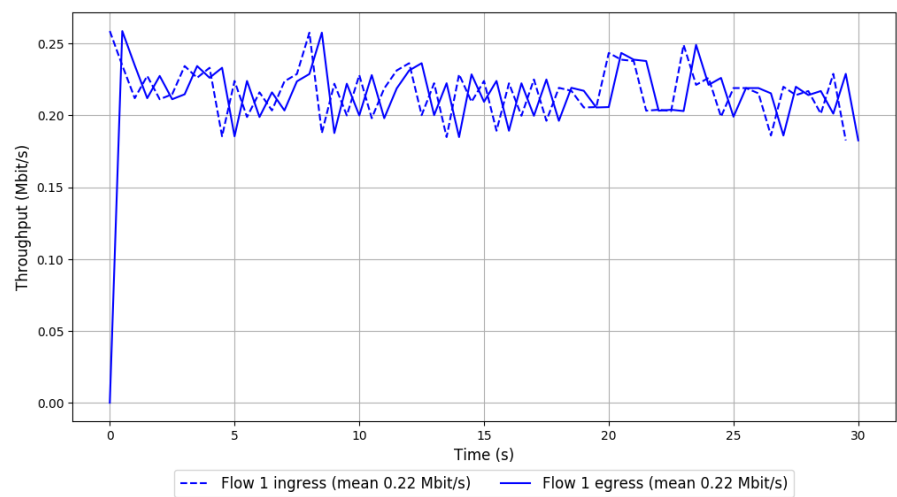


```
Run 1: Statistics of SCReAM

Start at: 2018-06-30 06:53:25
End at: 2018-06-30 06:53:55
Local clock offset: 0.132 ms
Remote clock offset: 12.192 ms

# Below is generated by plot.py at 2018-06-30 12:19:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.273 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

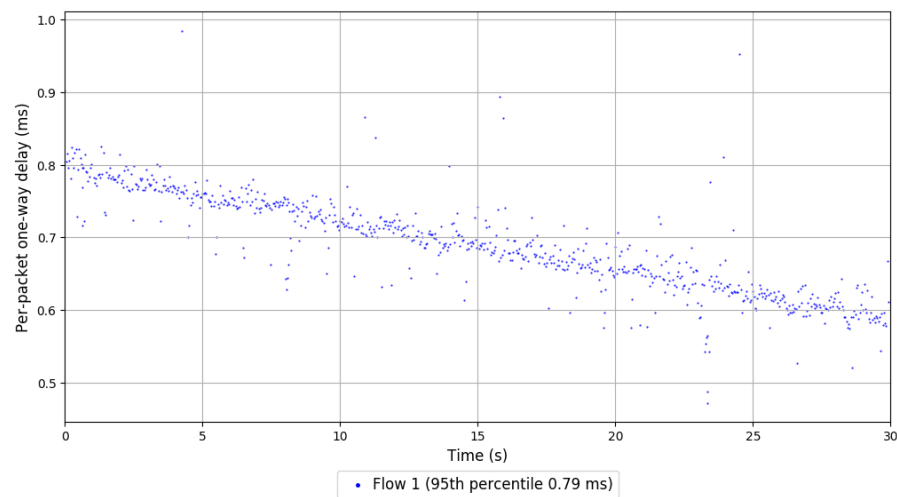
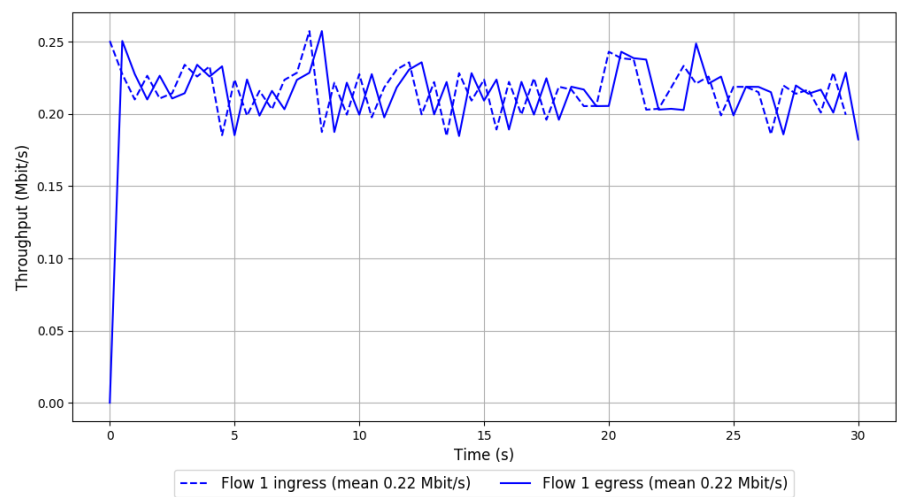


Run 2: Statistics of SCReAM

Start at: 2018-06-30 07:19:04
End at: 2018-06-30 07:19:34
Local clock offset: 1.078 ms
Remote clock offset: -0.822 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.791 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 0.791 ms
Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-30 07:44:46

End at: 2018-06-30 07:45:16

Local clock offset: 3.838 ms

Remote clock offset: 1.745 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.13%

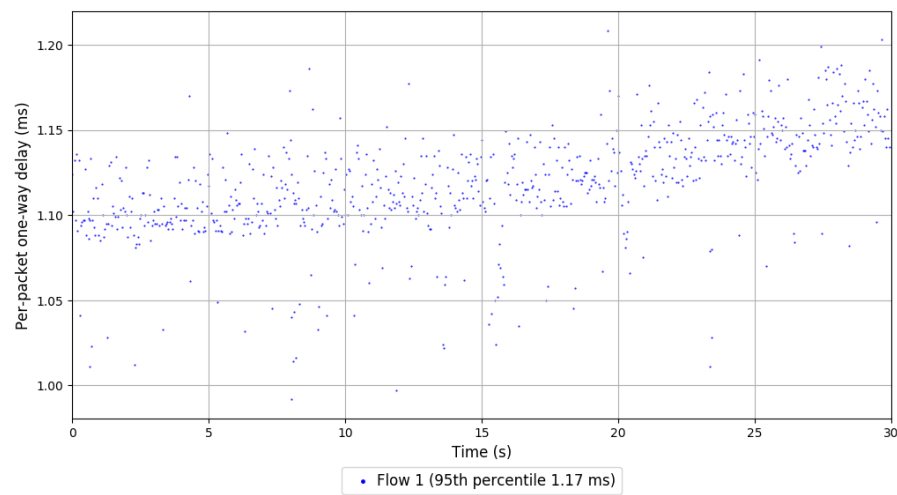
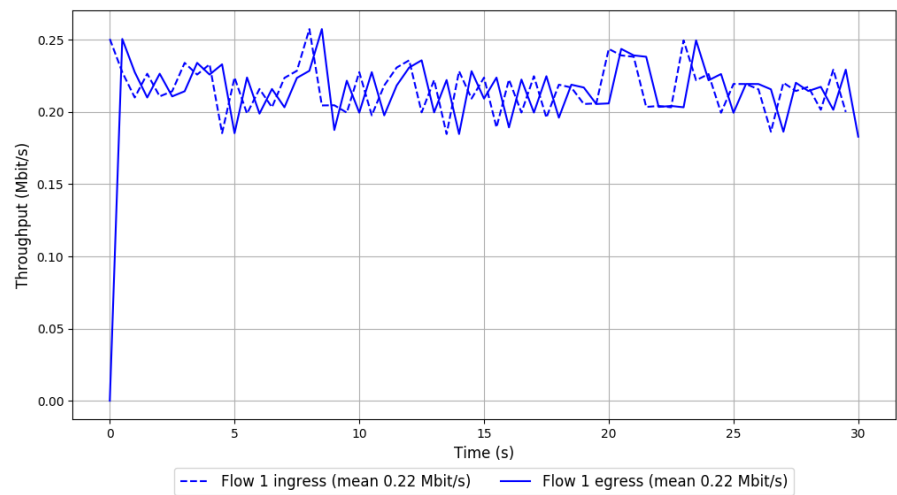
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.167 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-30 08:10:19

End at: 2018-06-30 08:10:49

Local clock offset: 3.555 ms

Remote clock offset: 1.223 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

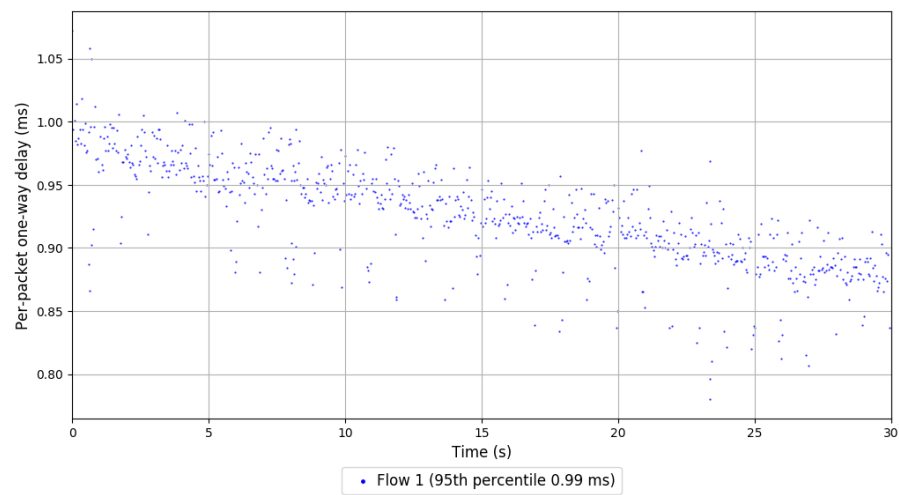
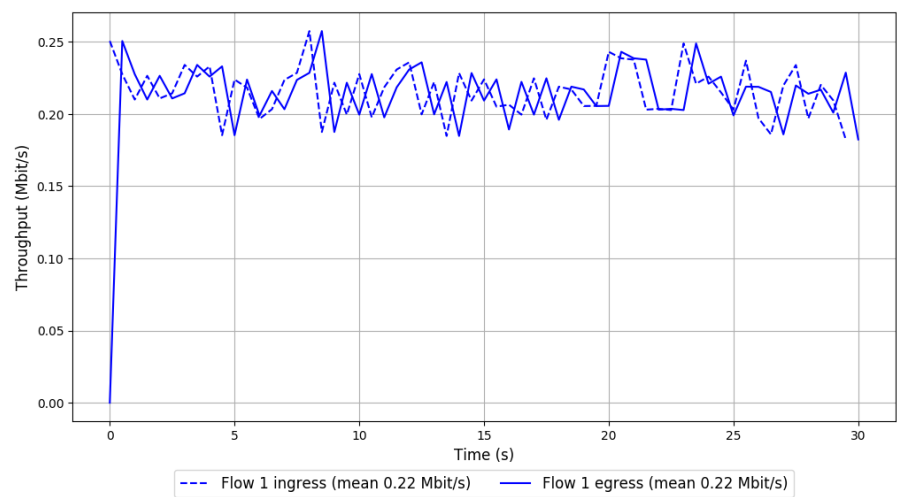
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

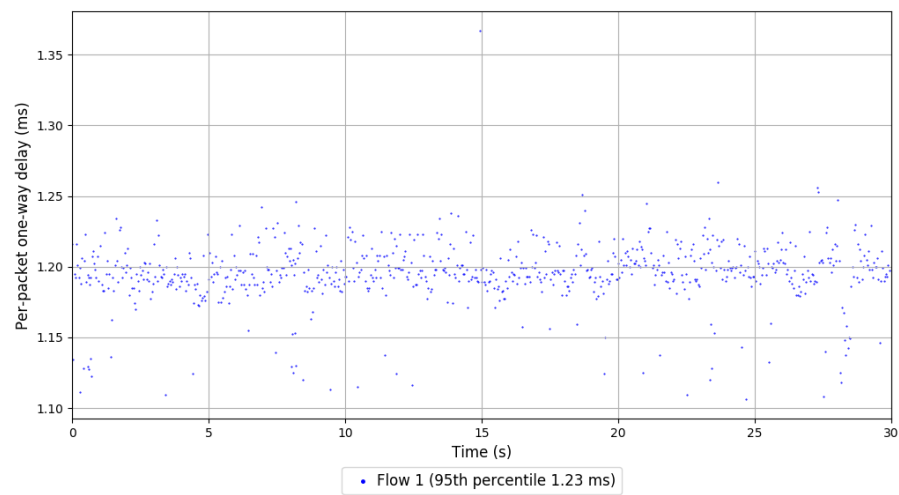
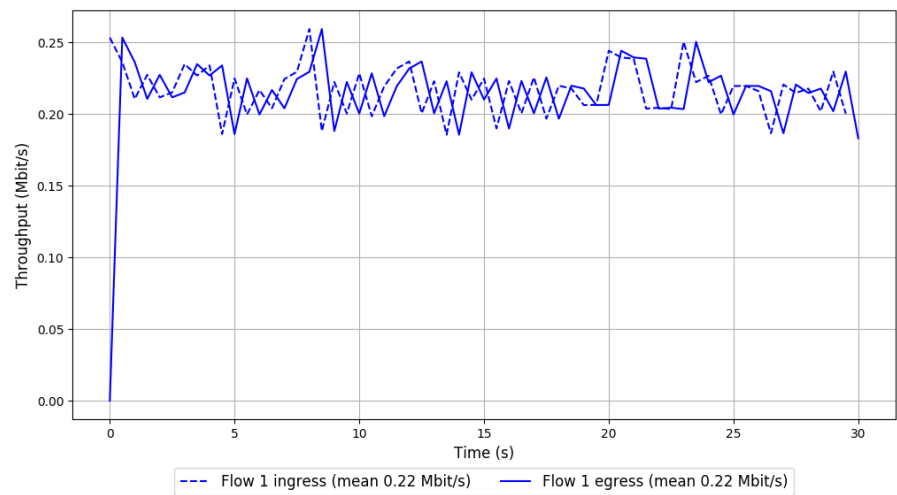


Run 5: Statistics of SCReAM

Start at: 2018-06-30 08:36:00
End at: 2018-06-30 08:36:30
Local clock offset: -0.219 ms
Remote clock offset: -1.093 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-30 09:01:38

End at: 2018-06-30 09:02:08

Local clock offset: -0.254 ms

Remote clock offset: 2.999 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.13%

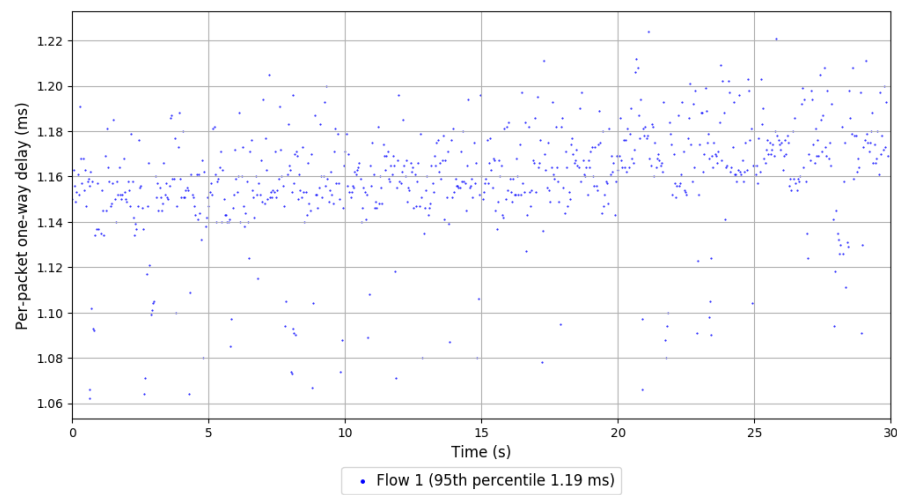
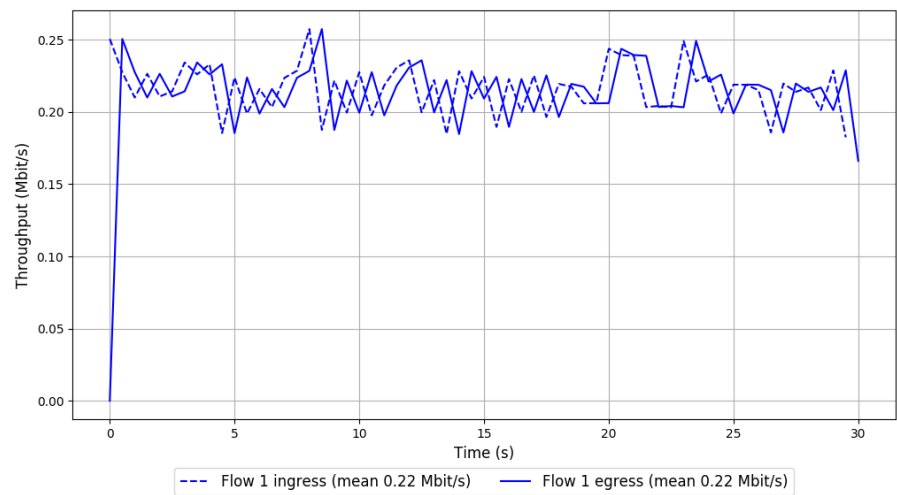
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link

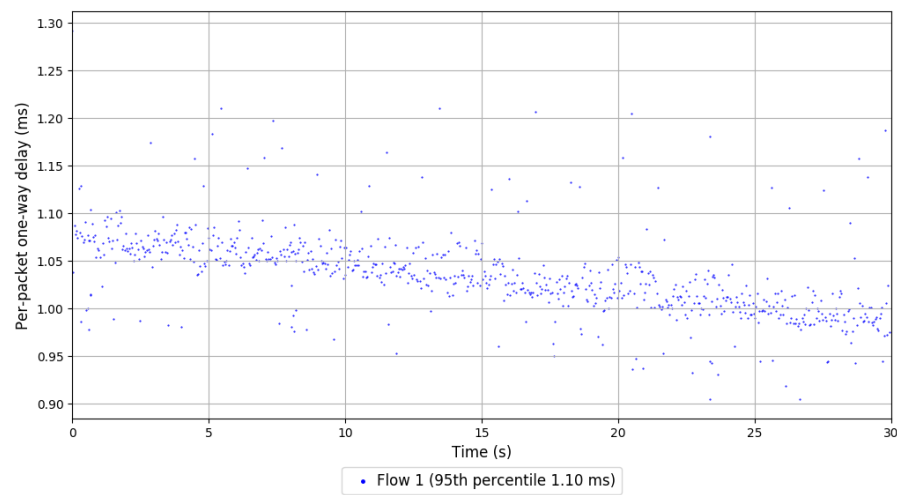
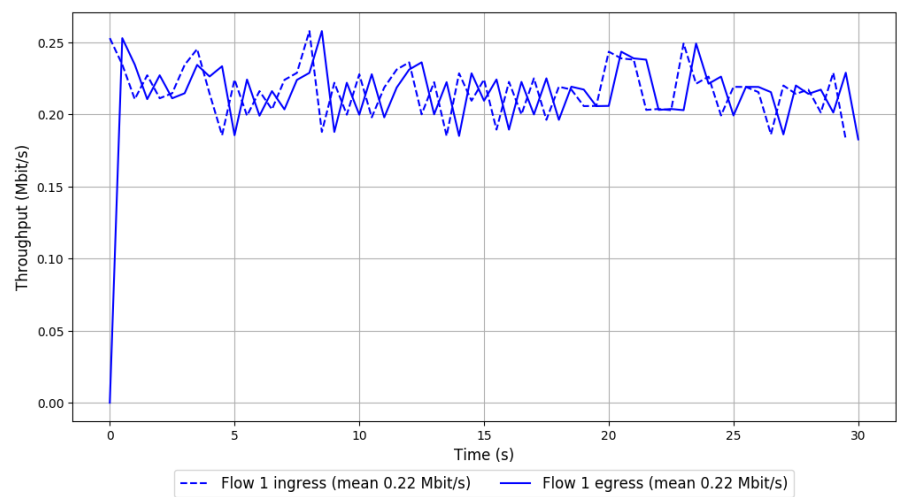


Run 7: Statistics of SCReAM

Start at: 2018-06-30 09:27:06
End at: 2018-06-30 09:27:36
Local clock offset: 0.28 ms
Remote clock offset: -0.641 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.096 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-30 09:52:30

End at: 2018-06-30 09:53:00

Local clock offset: 2.327 ms

Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.00%

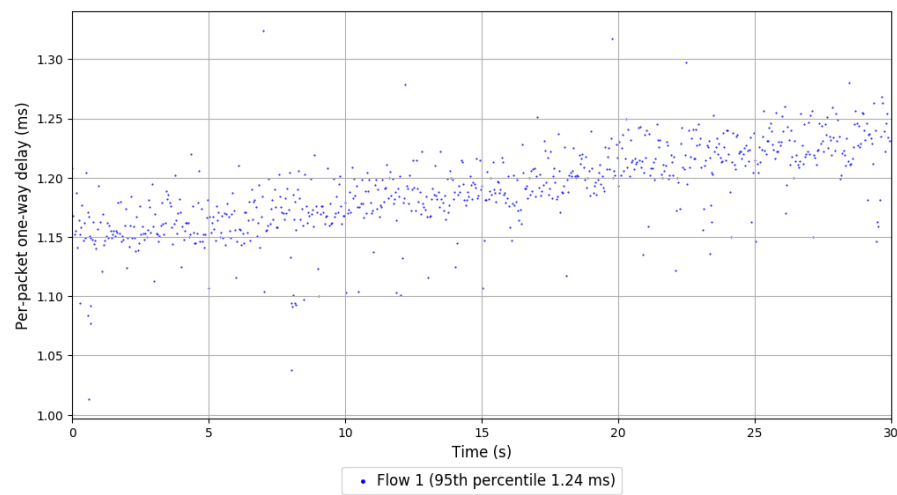
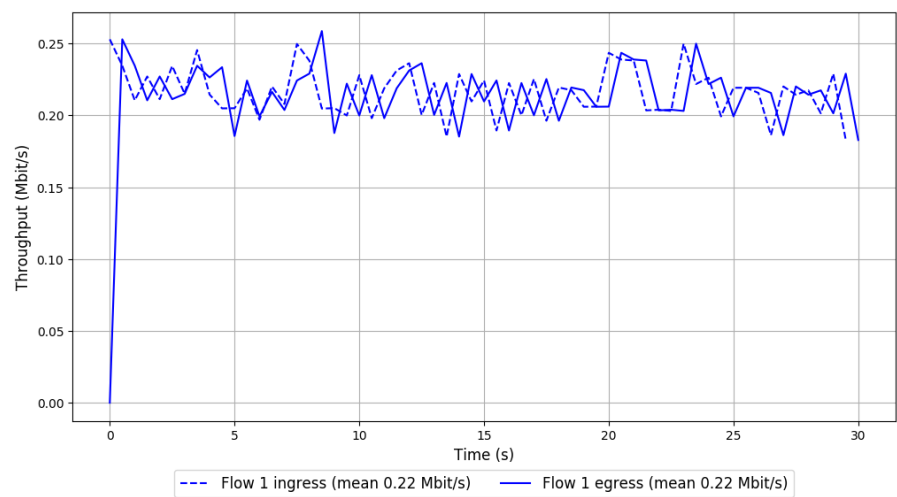
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.244 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-30 10:18:01

End at: 2018-06-30 10:18:31

Local clock offset: 4.632 ms

Remote clock offset: 3.199 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.13%

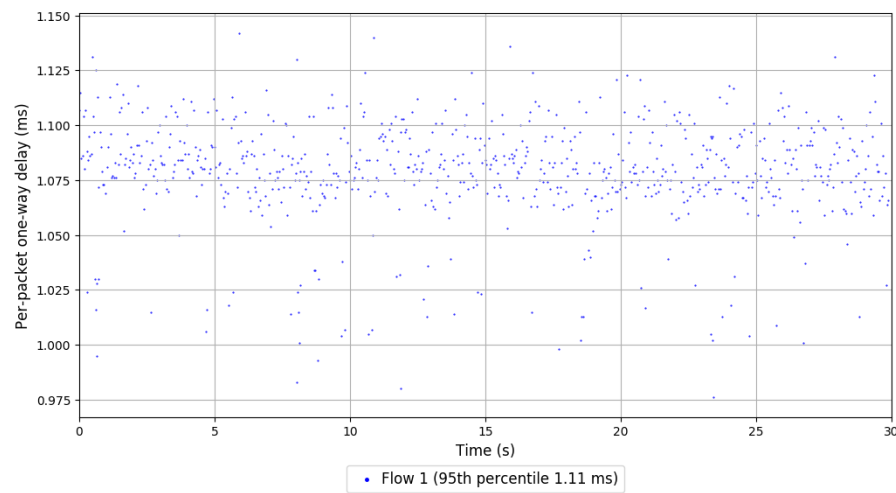
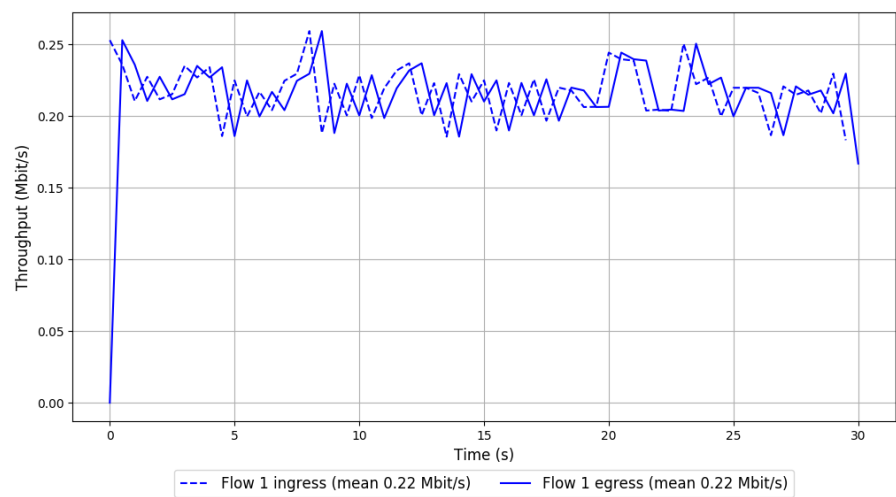
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.13%

Run 9: Report of SReAM — Data Link

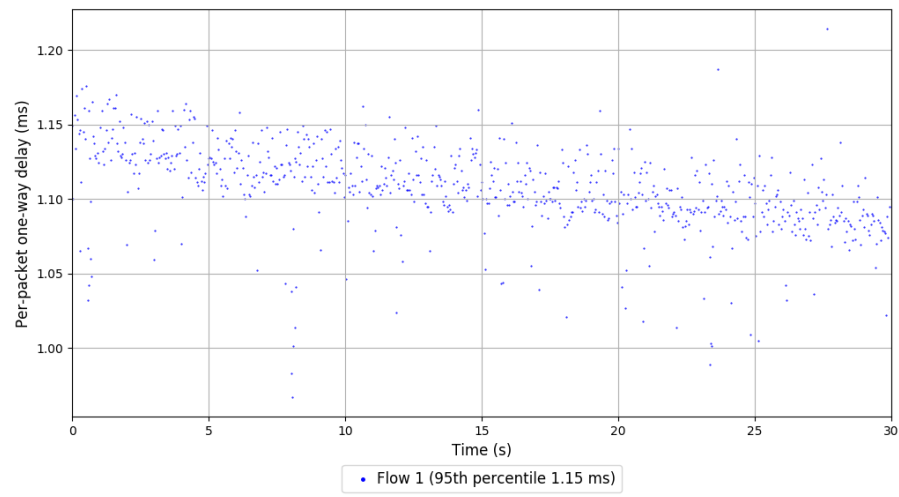
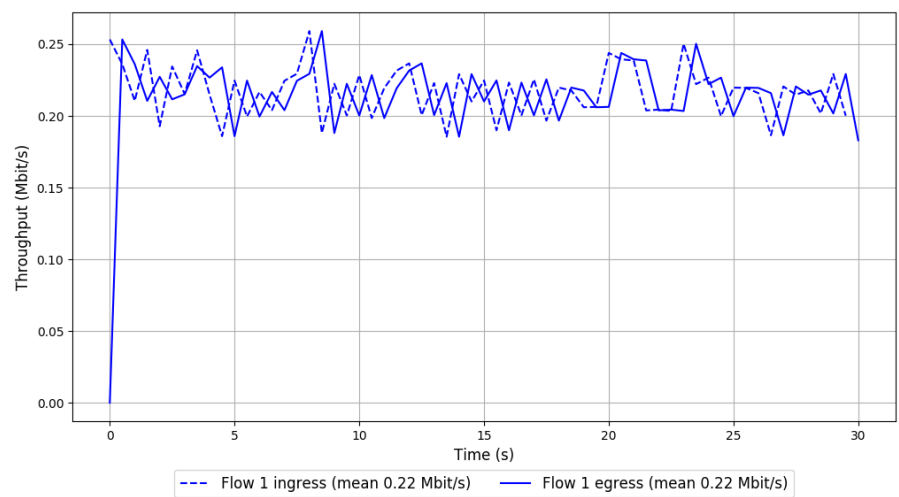


Run 10: Statistics of SReAM

Start at: 2018-06-30 10:43:39
End at: 2018-06-30 10:44:09
Local clock offset: 5.749 ms
Remote clock offset: -0.775 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.150 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.150 ms
Loss rate: 0.13%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-30 06:36:47

End at: 2018-06-30 06:37:17

Local clock offset: -0.003 ms

Remote clock offset: 9.491 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 1.190 ms

Loss rate: 0.00%

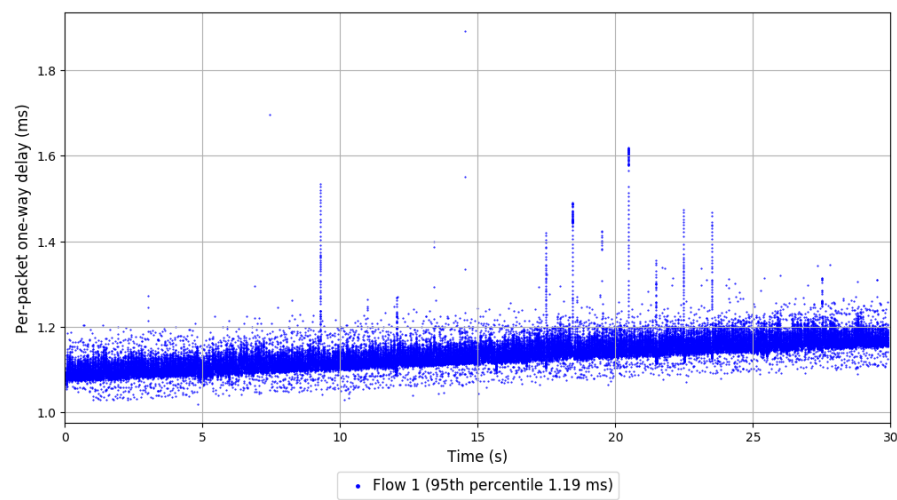
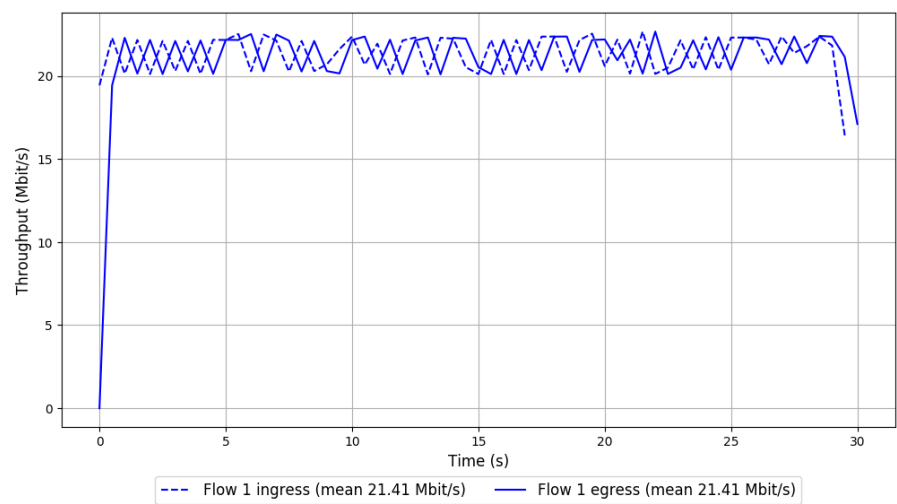
-- Flow 1:

Average throughput: 21.41 Mbit/s

95th percentile per-packet one-way delay: 1.190 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-30 07:02:25

End at: 2018-06-30 07:02:55

Local clock offset: 0.088 ms

Remote clock offset: 5.857 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.16%

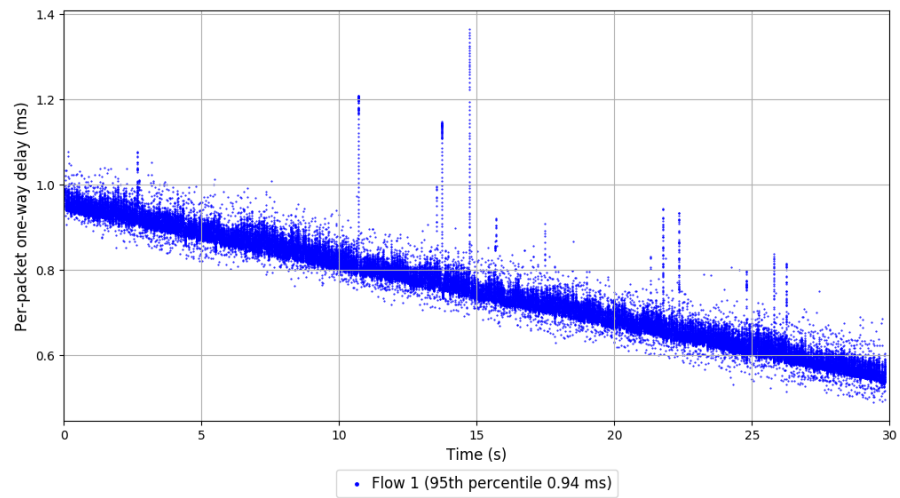
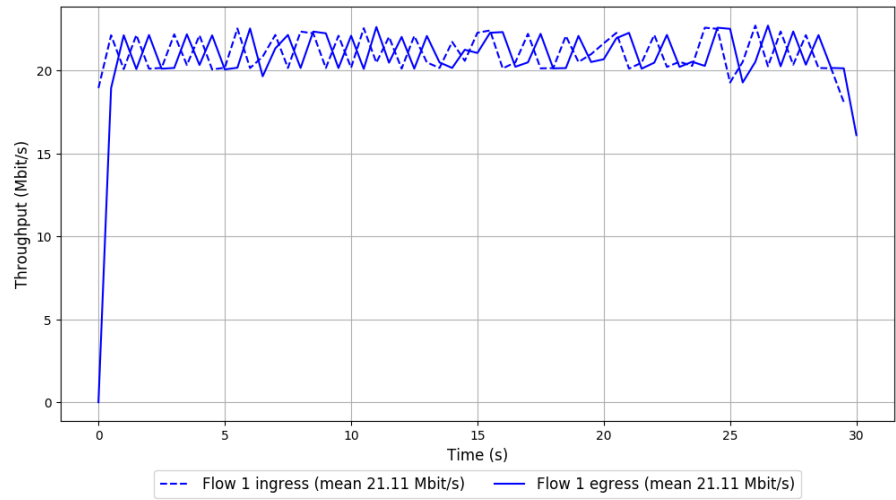
-- Flow 1:

Average throughput: 21.11 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.16%

Run 2: Report of Sprout — Data Link

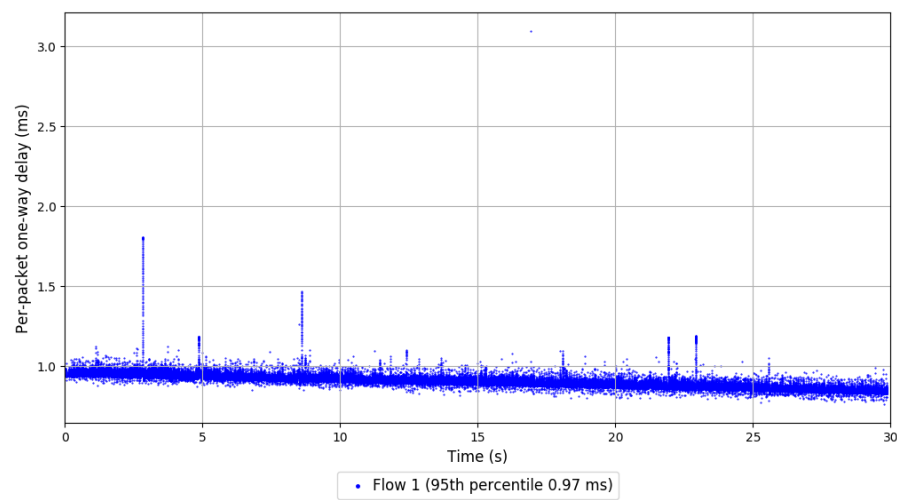
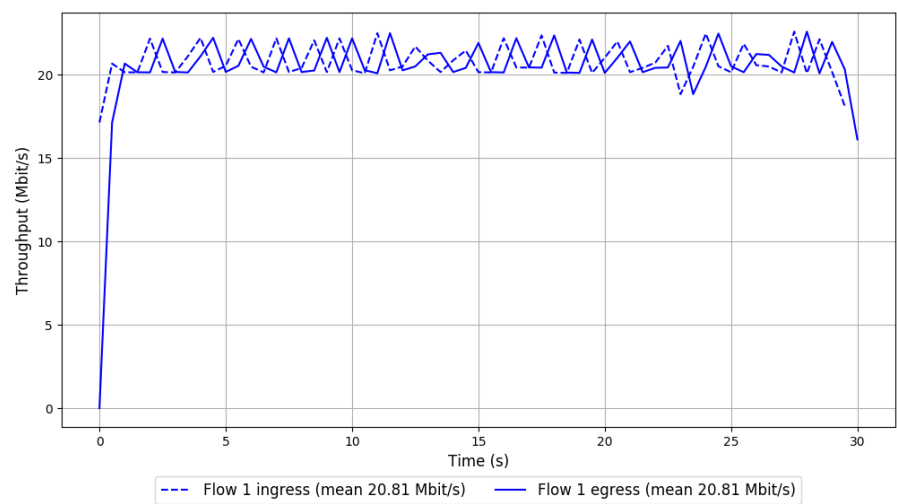


Run 3: Statistics of Sprout

Start at: 2018-06-30 07:28:05
End at: 2018-06-30 07:28:35
Local clock offset: 2.689 ms
Remote clock offset: -2.204 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 0.972 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.81 Mbit/s
95th percentile per-packet one-way delay: 0.972 ms
Loss rate: 0.16%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-30 07:53:42

End at: 2018-06-30 07:54:12

Local clock offset: 3.59 ms

Remote clock offset: 2.319 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.16%

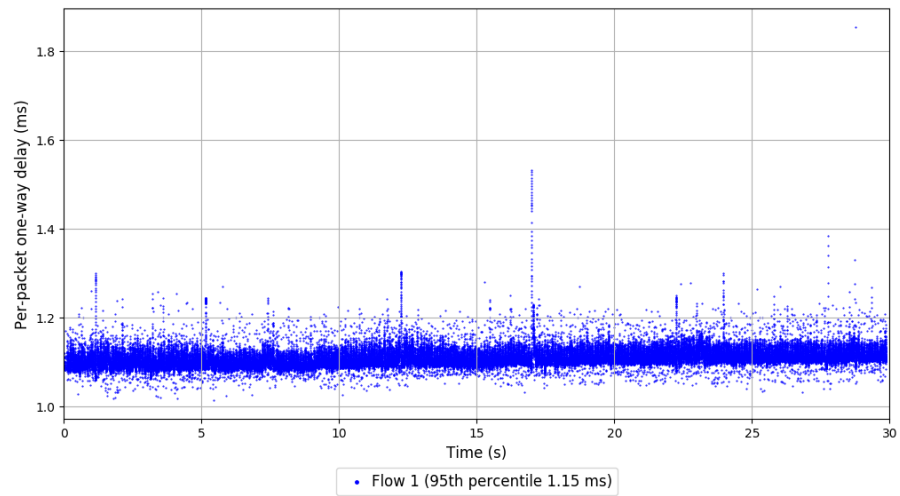
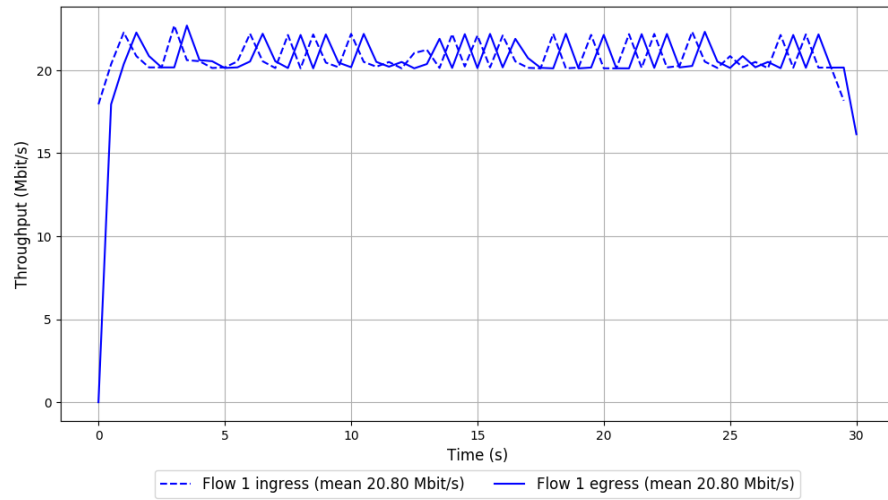
-- Flow 1:

Average throughput: 20.80 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.16%

Run 4: Report of Sprout — Data Link

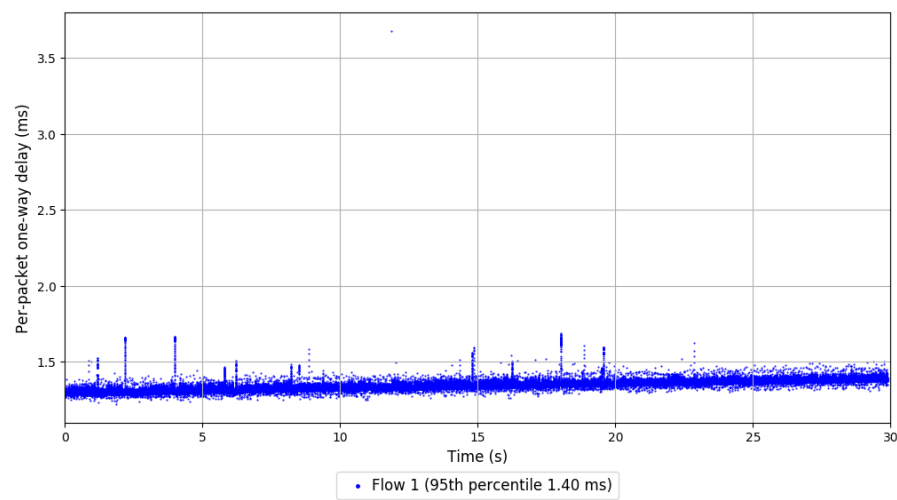
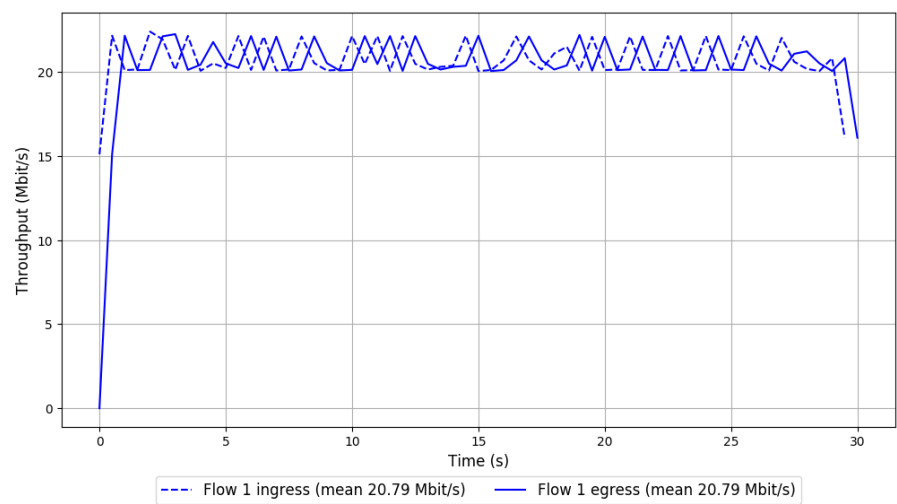


Run 5: Statistics of Sprout

Start at: 2018-06-30 08:19:21
End at: 2018-06-30 08:19:51
Local clock offset: 2.354 ms
Remote clock offset: -0.104 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 1.398 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.79 Mbit/s
95th percentile per-packet one-way delay: 1.398 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-30 08:44:57

End at: 2018-06-30 08:45:27

Local clock offset: -0.735 ms

Remote clock offset: 0.905 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.00%

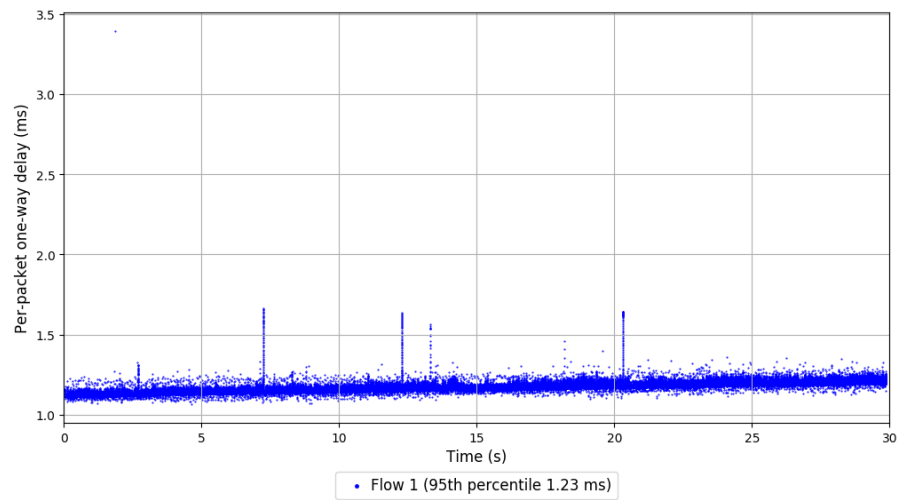
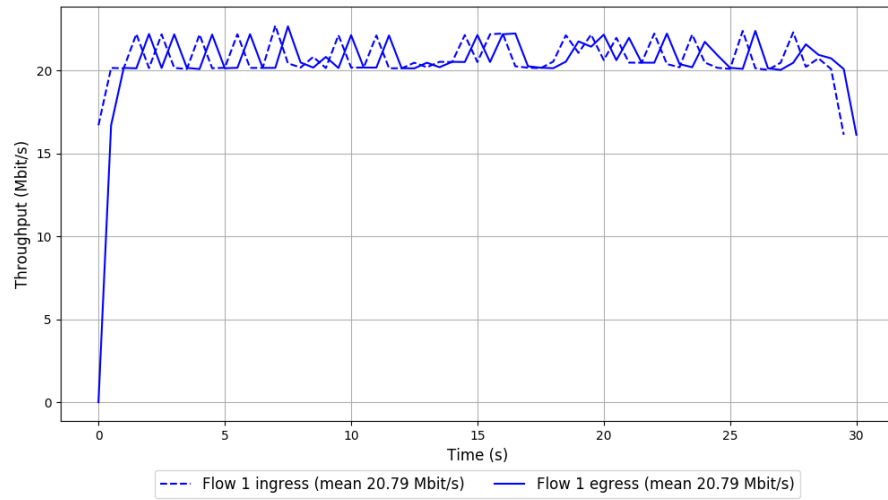
-- Flow 1:

Average throughput: 20.79 Mbit/s

95th percentile per-packet one-way delay: 1.225 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

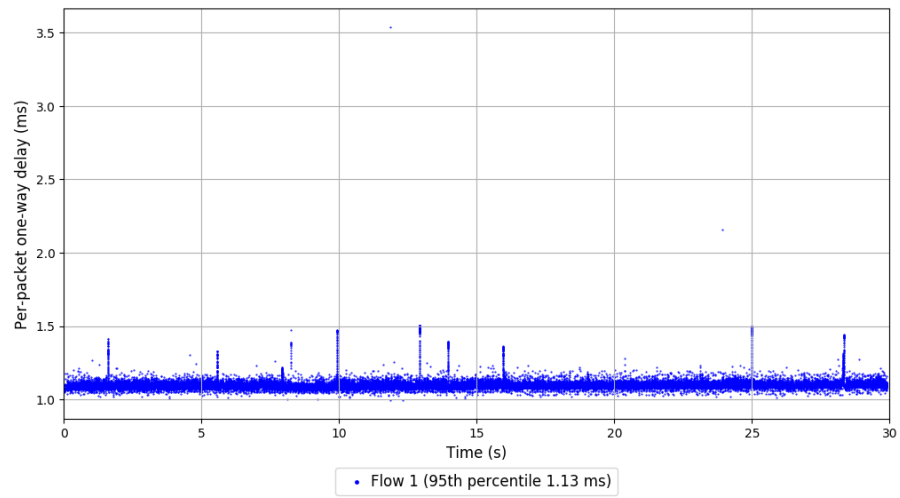
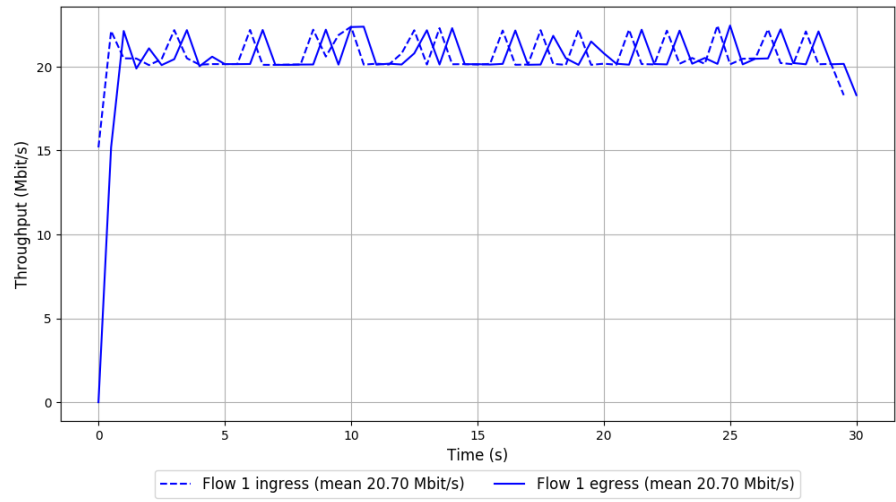


Run 7: Statistics of Sprout

Start at: 2018-06-30 09:10:31
End at: 2018-06-30 09:11:01
Local clock offset: -0.315 ms
Remote clock offset: 3.363 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.70 Mbit/s
95th percentile per-packet one-way delay: 1.132 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

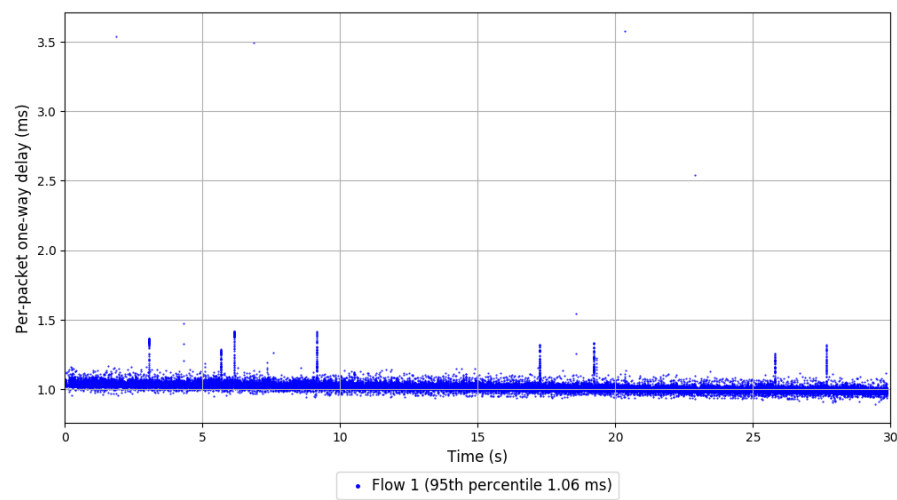
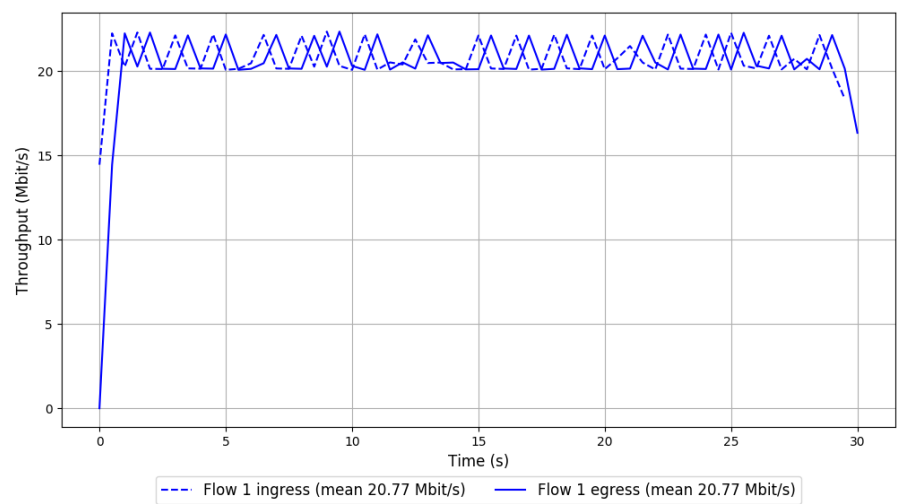


Run 8: Statistics of Sprout

Start at: 2018-06-30 09:35:56
End at: 2018-06-30 09:36:26
Local clock offset: 0.365 ms
Remote clock offset: -1.805 ms

Below is generated by plot.py at 2018-06-30 12:19:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.77 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.16%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-30 10:01:26

End at: 2018-06-30 10:01:56

Local clock offset: 3.545 ms

Remote clock offset: 1.915 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

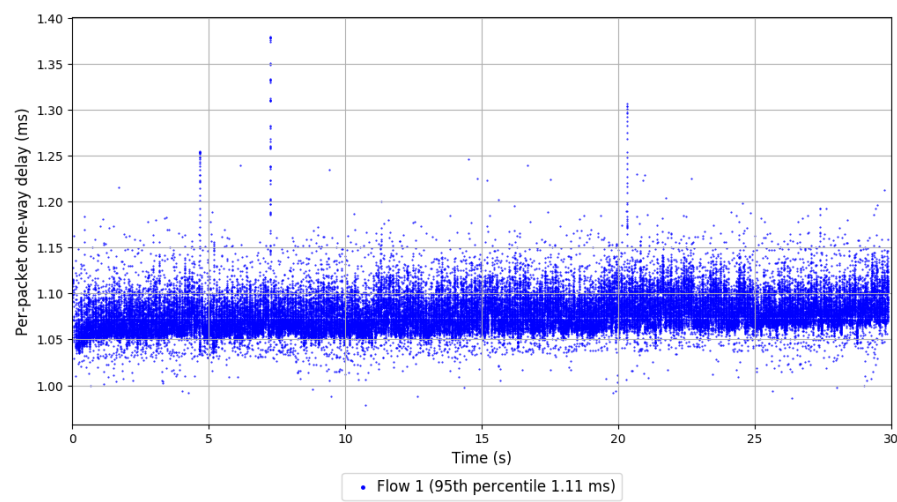
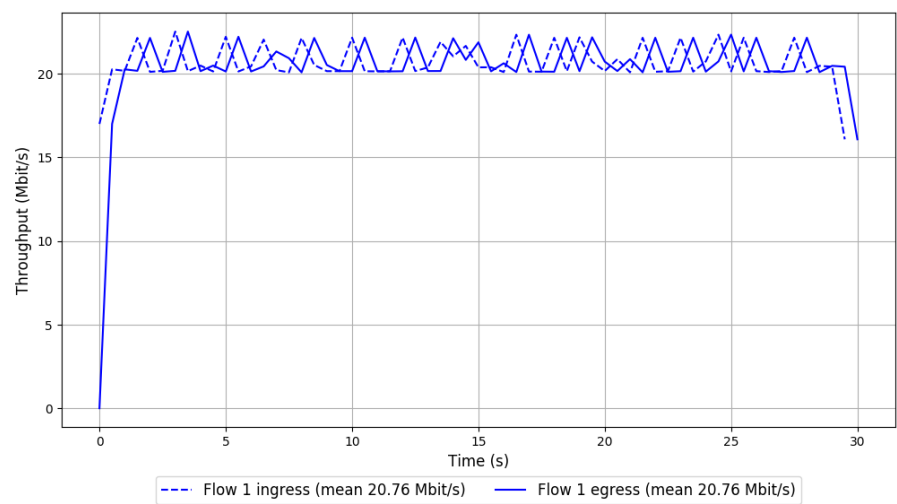
-- Flow 1:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-30 10:26:56

End at: 2018-06-30 10:27:26

Local clock offset: 5.046 ms

Remote clock offset: 1.451 ms

Below is generated by plot.py at 2018-06-30 12:19:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.00%

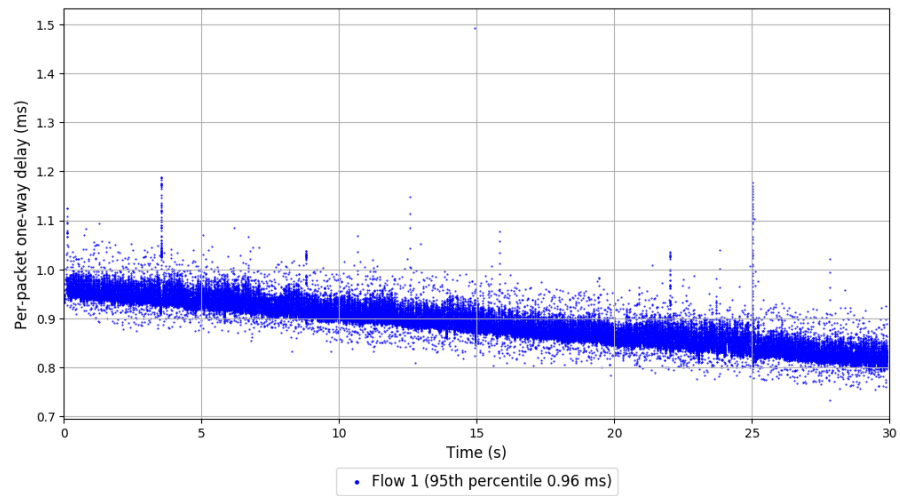
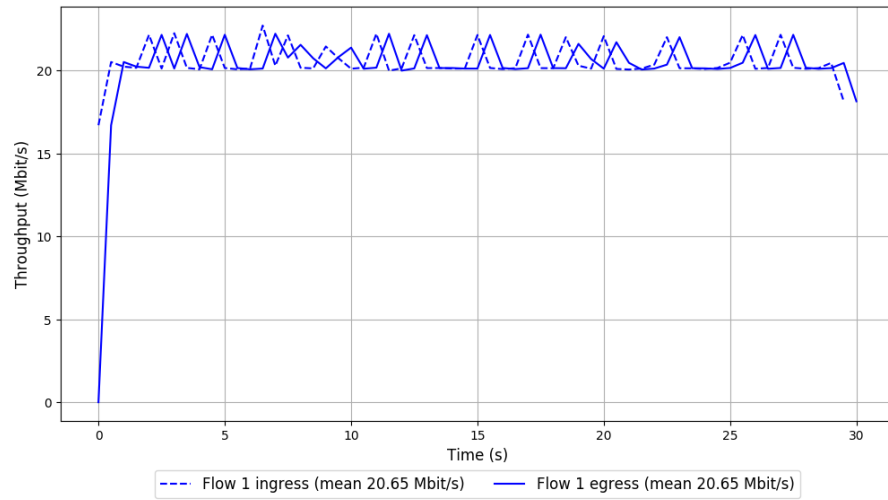
-- Flow 1:

Average throughput: 20.65 Mbit/s

95th percentile per-packet one-way delay: 0.962 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

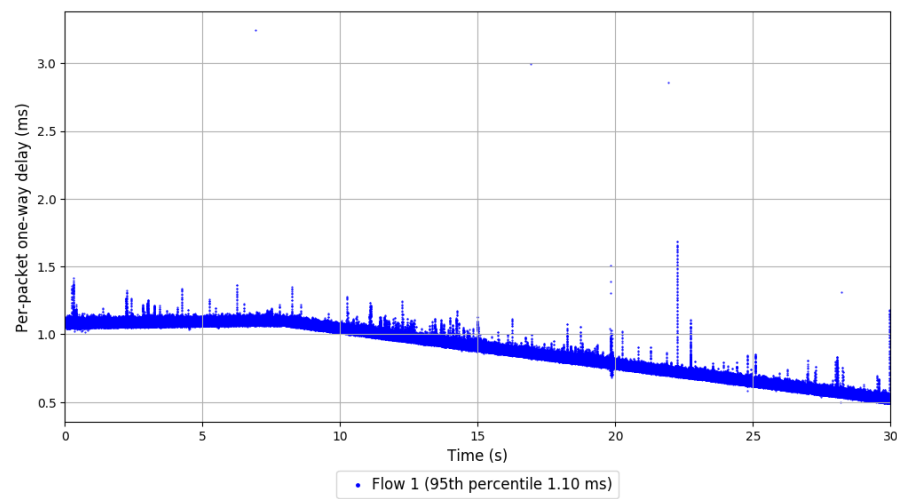
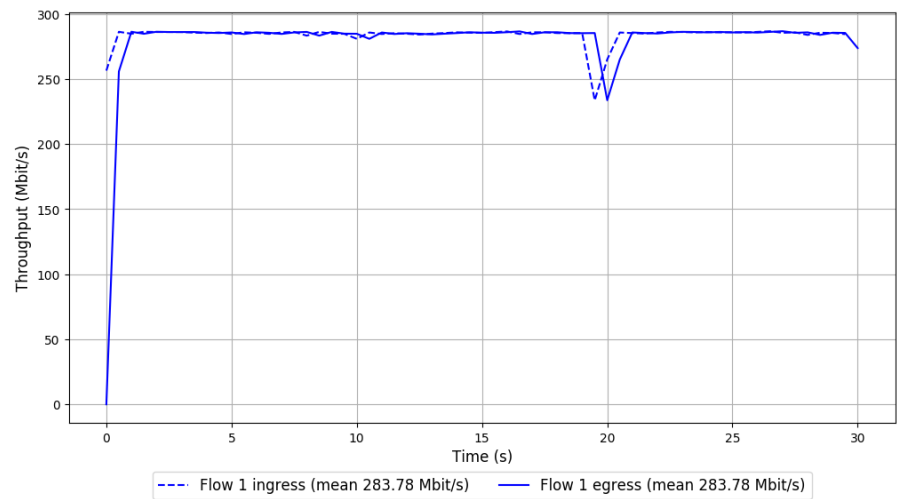


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-30 06:56:24
End at: 2018-06-30 06:56:54
Local clock offset: 0.143 ms
Remote clock offset: 12.651 ms

# Below is generated by plot.py at 2018-06-30 12:22:34
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.78 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 283.78 Mbit/s
95th percentile per-packet one-way delay: 1.103 ms
Loss rate: 0.06%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-30 07:22:00

End at: 2018-06-30 07:22:30

Local clock offset: 1.809 ms

Remote clock offset: -1.443 ms

Below is generated by plot.py at 2018-06-30 12:22:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.76 Mbit/s

95th percentile per-packet one-way delay: 0.934 ms

Loss rate: 0.06%

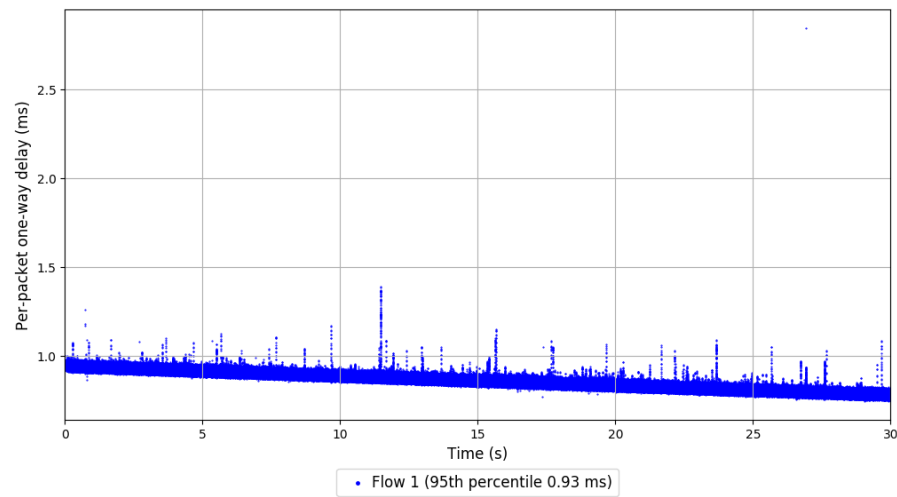
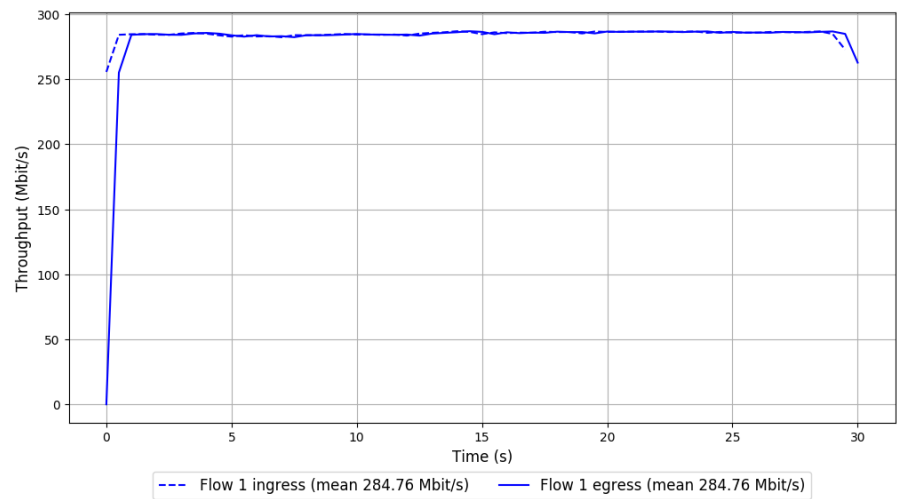
-- Flow 1:

Average throughput: 284.76 Mbit/s

95th percentile per-packet one-way delay: 0.934 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-30 07:47:42

End at: 2018-06-30 07:48:12

Local clock offset: 3.675 ms

Remote clock offset: 1.969 ms

Below is generated by plot.py at 2018-06-30 12:22:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.87 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.07%

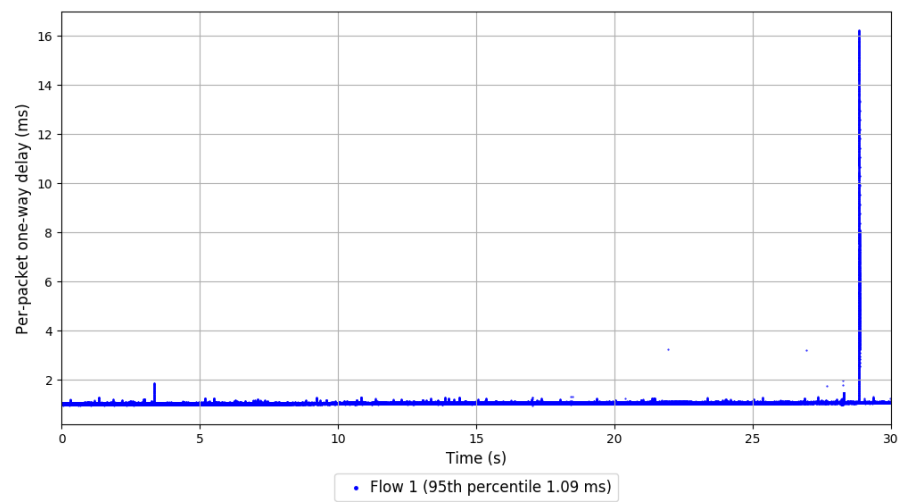
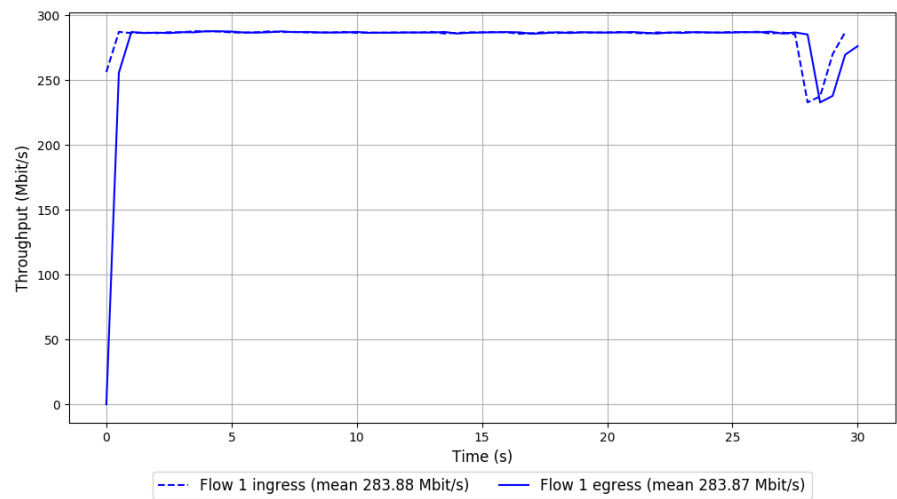
-- Flow 1:

Average throughput: 283.87 Mbit/s

95th percentile per-packet one-way delay: 1.087 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-30 08:13:17

End at: 2018-06-30 08:13:47

Local clock offset: 3.587 ms

Remote clock offset: 0.727 ms

Below is generated by plot.py at 2018-06-30 12:22:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.81 Mbit/s

95th percentile per-packet one-way delay: 0.851 ms

Loss rate: 0.07%

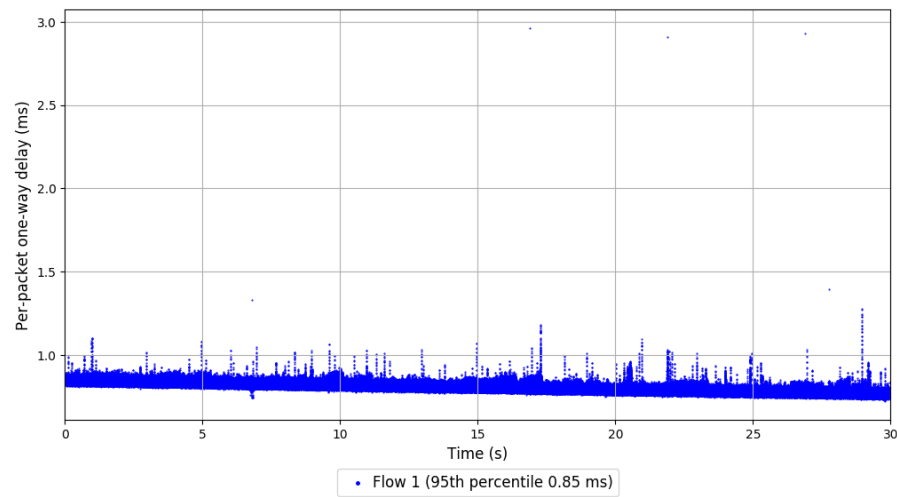
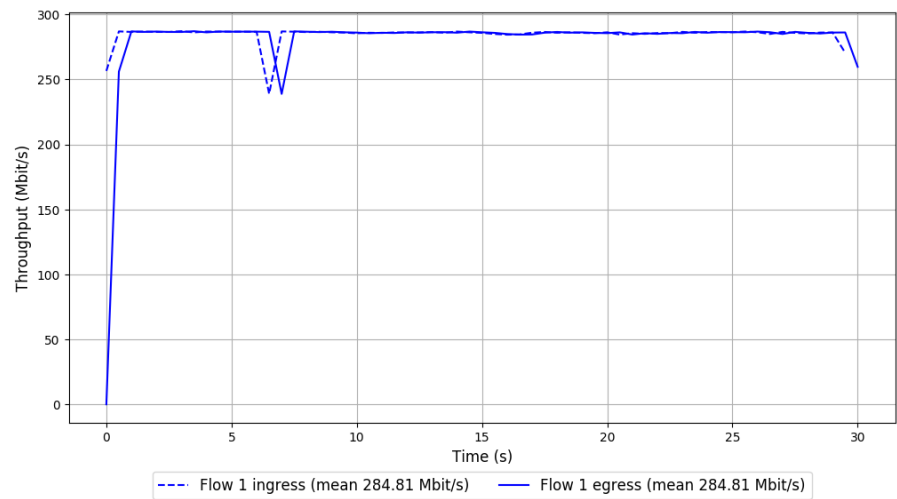
-- Flow 1:

Average throughput: 284.81 Mbit/s

95th percentile per-packet one-way delay: 0.851 ms

Loss rate: 0.07%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-30 08:38:58

End at: 2018-06-30 08:39:28

Local clock offset: -0.409 ms

Remote clock offset: -1.255 ms

Below is generated by plot.py at 2018-06-30 12:25:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.72 Mbit/s

95th percentile per-packet one-way delay: 1.383 ms

Loss rate: 0.06%

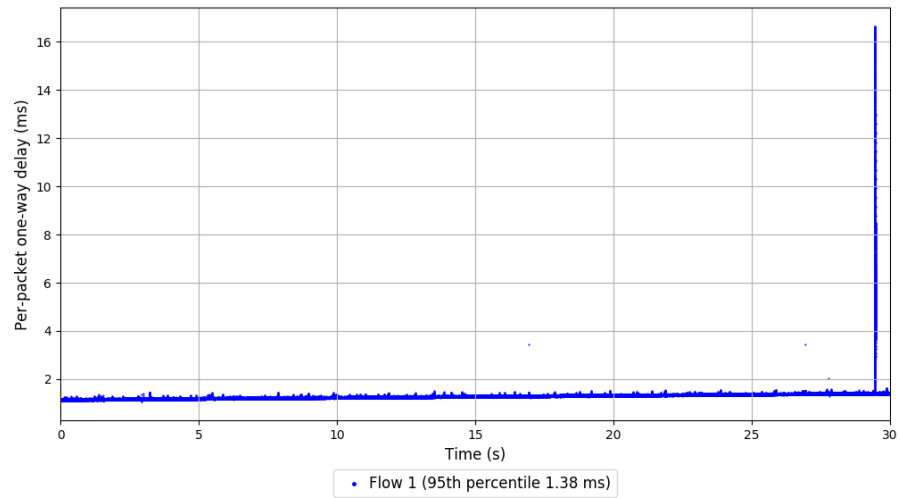
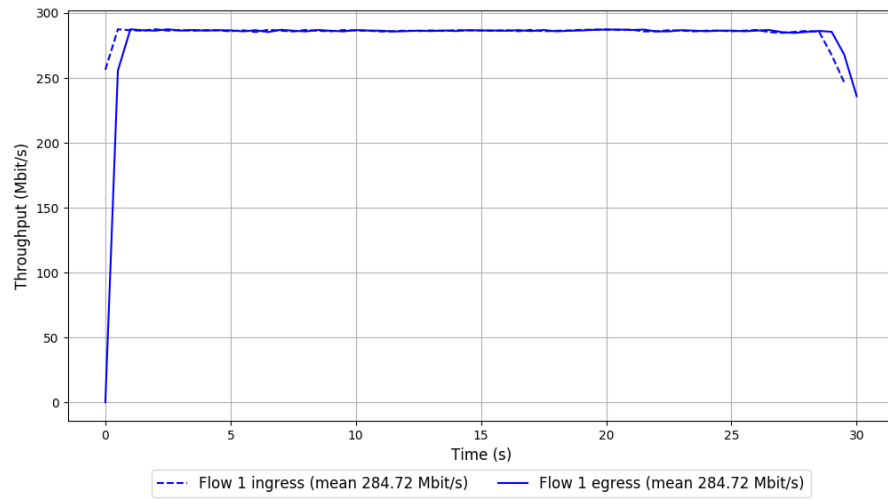
-- Flow 1:

Average throughput: 284.72 Mbit/s

95th percentile per-packet one-way delay: 1.383 ms

Loss rate: 0.06%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-30 09:04:35

End at: 2018-06-30 09:05:05

Local clock offset: -0.257 ms

Remote clock offset: 3.132 ms

Below is generated by plot.py at 2018-06-30 12:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.07 Mbit/s

95th percentile per-packet one-way delay: 1.103 ms

Loss rate: 0.07%

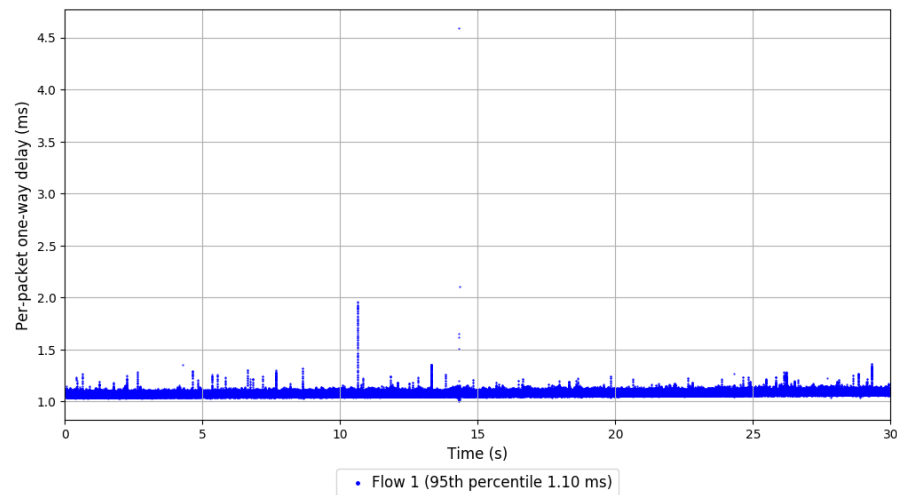
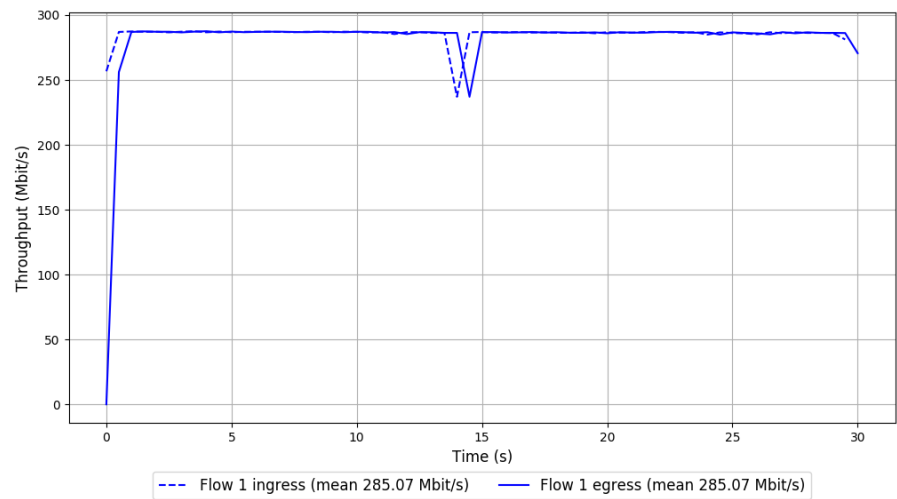
-- Flow 1:

Average throughput: 285.07 Mbit/s

95th percentile per-packet one-way delay: 1.103 ms

Loss rate: 0.07%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-30 09:30:03

End at: 2018-06-30 09:30:33

Local clock offset: 0.221 ms

Remote clock offset: -1.044 ms

Below is generated by plot.py at 2018-06-30 12:25:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.97 Mbit/s

95th percentile per-packet one-way delay: 0.854 ms

Loss rate: 0.05%

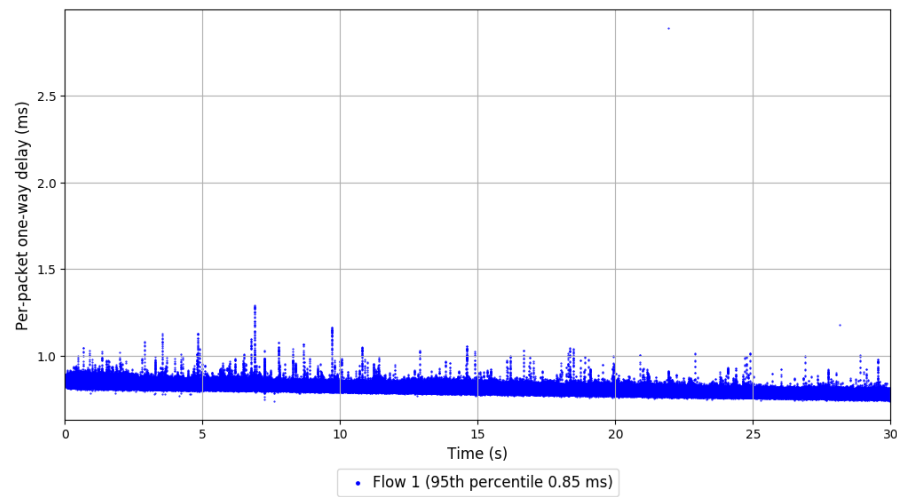
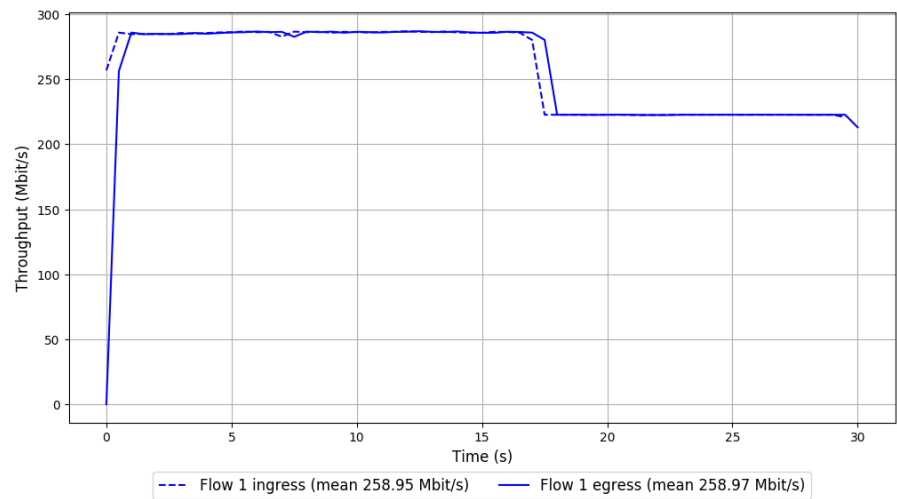
-- Flow 1:

Average throughput: 258.97 Mbit/s

95th percentile per-packet one-way delay: 0.854 ms

Loss rate: 0.05%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-30 09:55:27

End at: 2018-06-30 09:55:57

Local clock offset: 2.739 ms

Remote clock offset: 0.787 ms

Below is generated by plot.py at 2018-06-30 12:26:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 286.24 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.07%

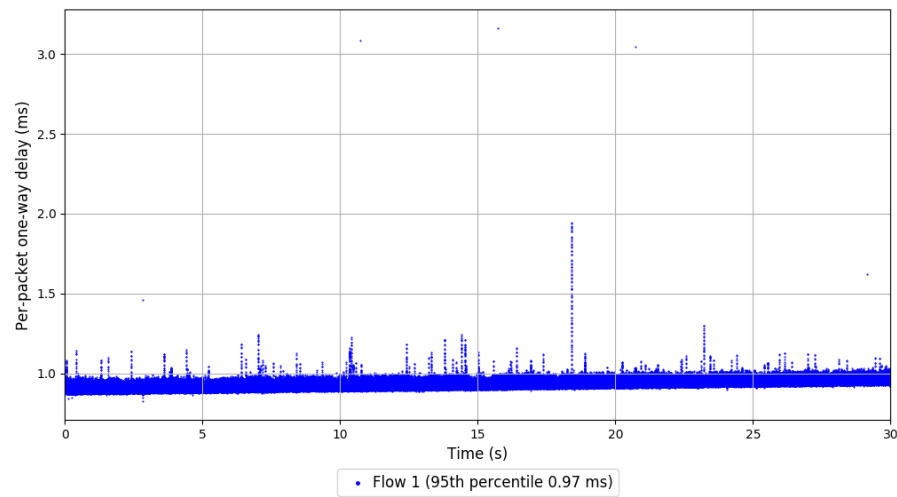
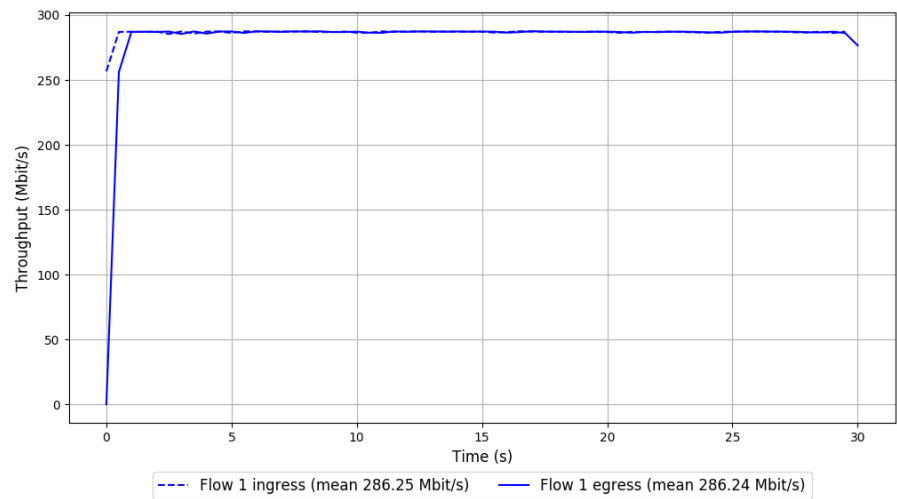
-- Flow 1:

Average throughput: 286.24 Mbit/s

95th percentile per-packet one-way delay: 0.969 ms

Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-30 10:20:58

End at: 2018-06-30 10:21:28

Local clock offset: 4.761 ms

Remote clock offset: 3.281 ms

Below is generated by plot.py at 2018-06-30 12:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.94 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.07%

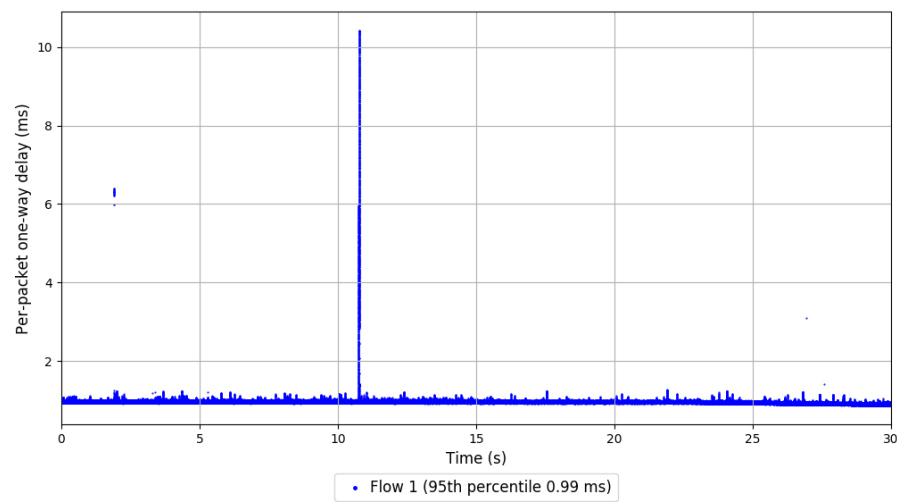
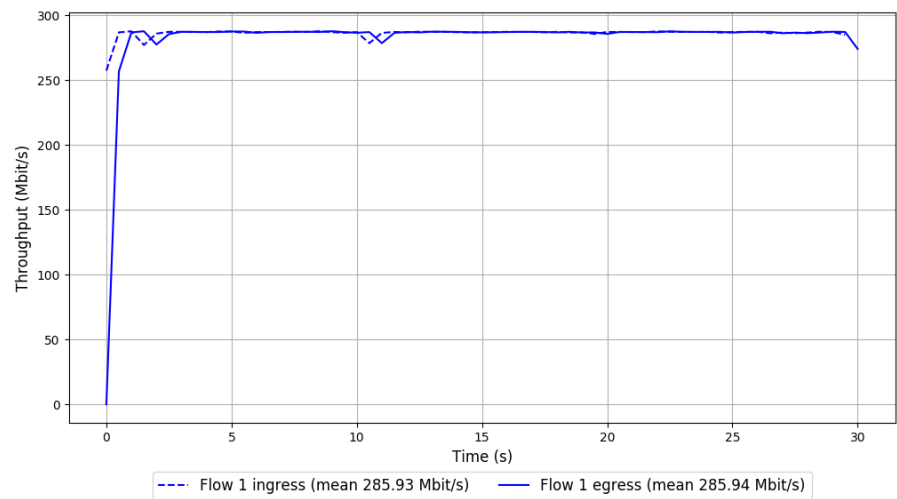
-- Flow 1:

Average throughput: 285.94 Mbit/s

95th percentile per-packet one-way delay: 0.987 ms

Loss rate: 0.07%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-30 10:46:35

End at: 2018-06-30 10:47:06

Local clock offset: 5.18 ms

Remote clock offset: -0.919 ms

Below is generated by plot.py at 2018-06-30 12:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 284.65 Mbit/s

95th percentile per-packet one-way delay: 1.684 ms

Loss rate: 0.07%

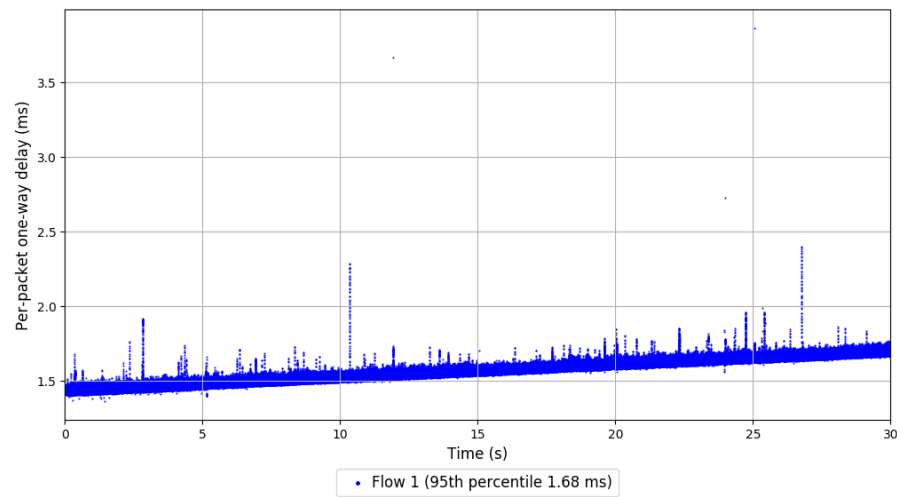
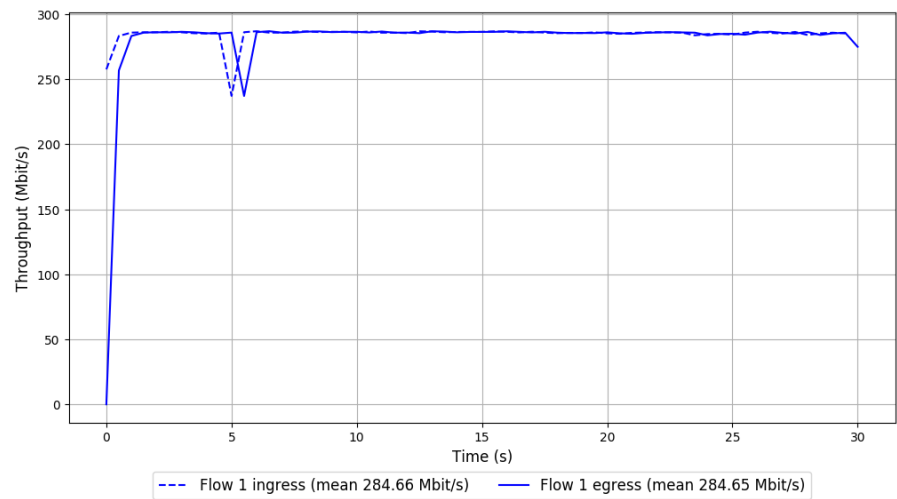
-- Flow 1:

Average throughput: 284.65 Mbit/s

95th percentile per-packet one-way delay: 1.684 ms

Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-30 06:32:19

End at: 2018-06-30 06:32:49

Local clock offset: 0.009 ms

Remote clock offset: 8.743 ms

Below is generated by plot.py at 2018-06-30 12:29:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.64 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.04%

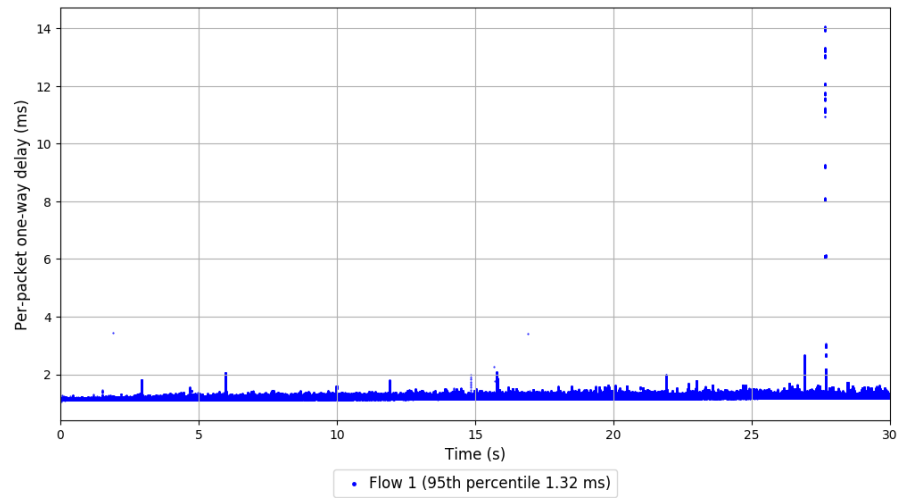
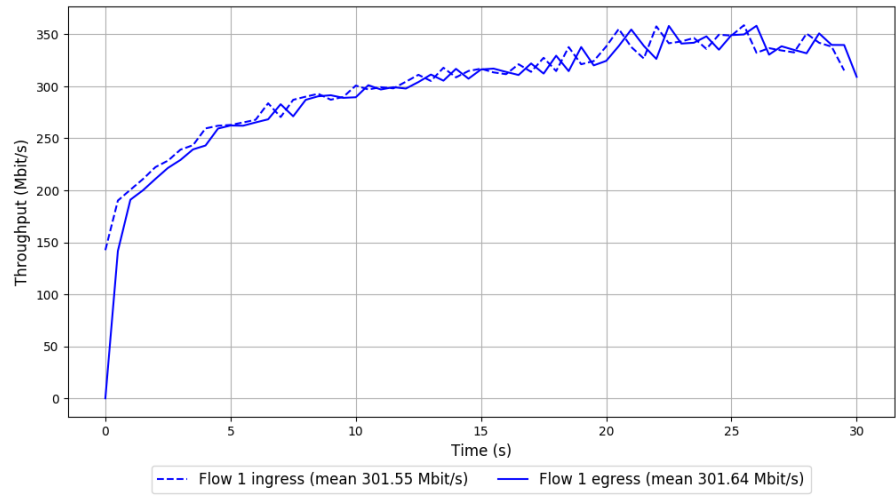
-- Flow 1:

Average throughput: 301.64 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link

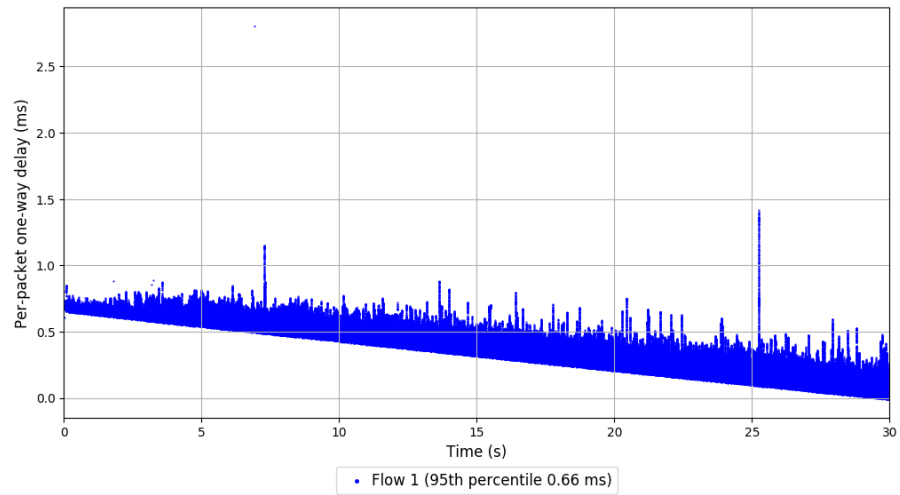
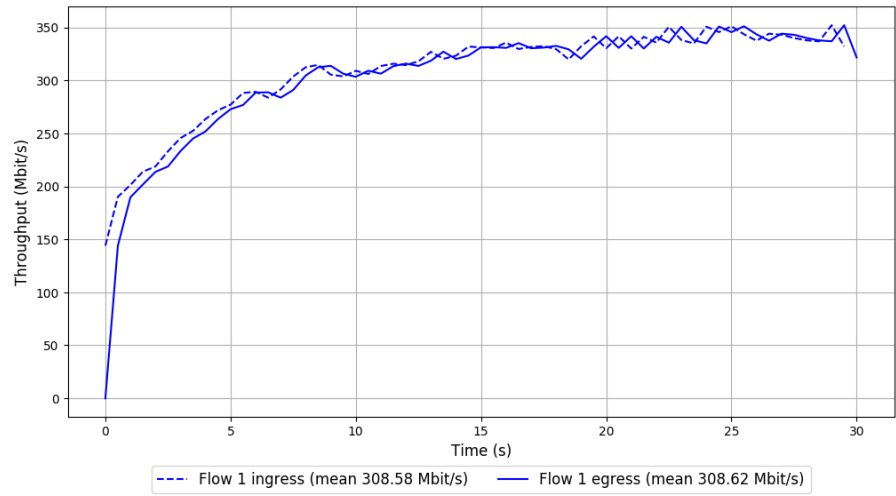


Run 2: Statistics of TCP Vegas

Start at: 2018-06-30 06:57:58
End at: 2018-06-30 06:58:28
Local clock offset: 0.071 ms
Remote clock offset: 10.884 ms

Below is generated by plot.py at 2018-06-30 12:29:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 308.62 Mbit/s
95th percentile per-packet one-way delay: 0.655 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 308.62 Mbit/s
95th percentile per-packet one-way delay: 0.655 ms
Loss rate: 0.06%

Run 2: Report of TCP Vegas — Data Link

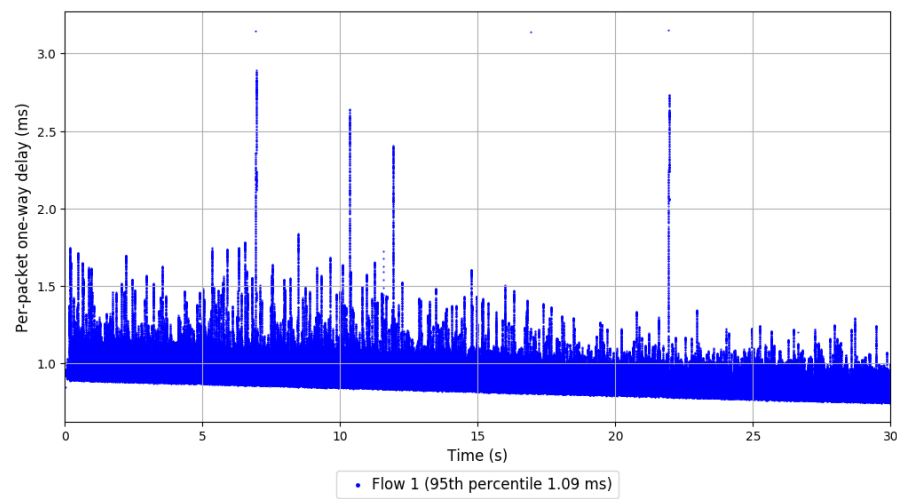
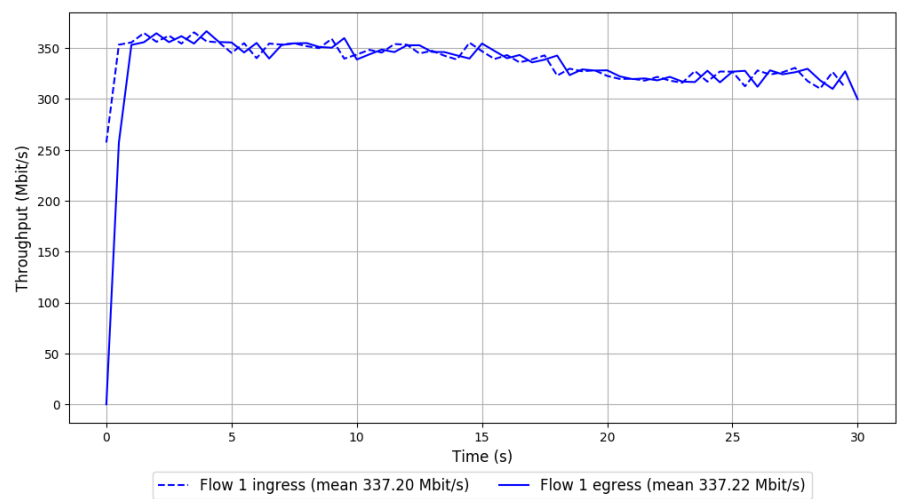


Run 3: Statistics of TCP Vegas

Start at: 2018-06-30 07:23:34
End at: 2018-06-30 07:24:04
Local clock offset: 2.068 ms
Remote clock offset: -1.648 ms

Below is generated by plot.py at 2018-06-30 12:29:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 337.22 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 337.22 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.06%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-30 07:49:17

End at: 2018-06-30 07:49:47

Local clock offset: 3.603 ms

Remote clock offset: 2.211 ms

Below is generated by plot.py at 2018-06-30 12:29:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.42 Mbit/s

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

Loss rate: 0.01%

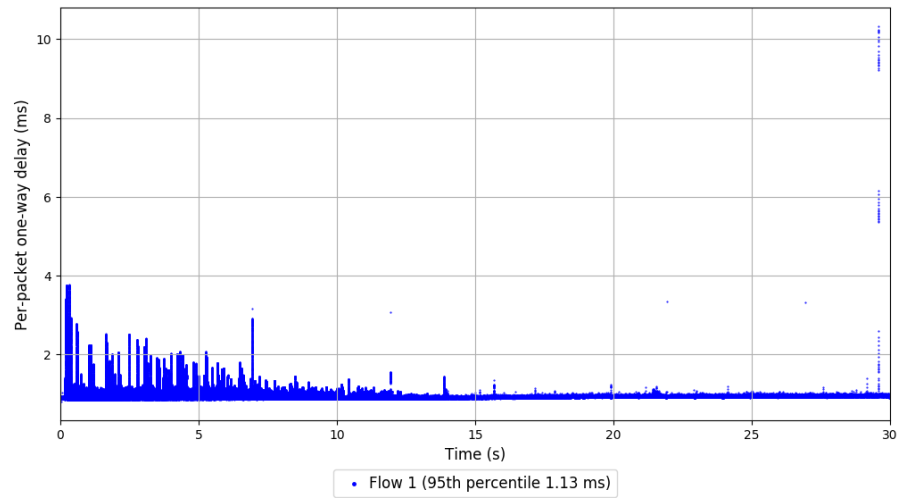
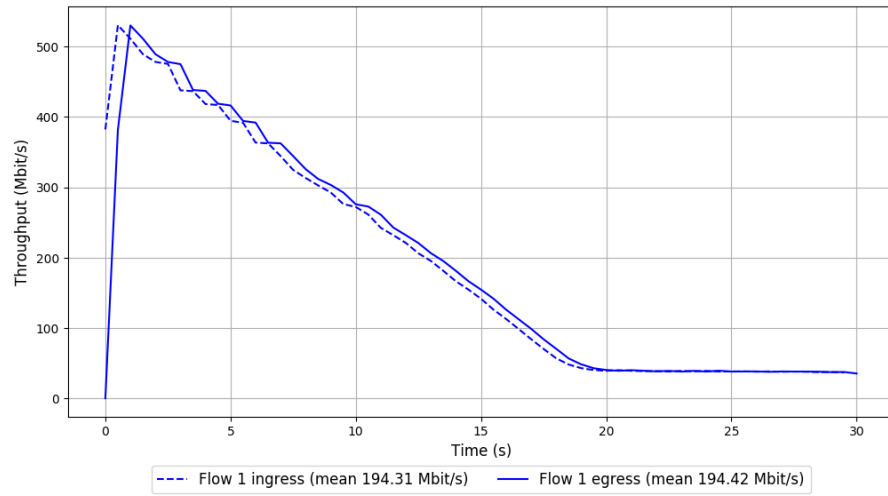
-- Flow 1:

Average throughput: 194.42 Mbit/s

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

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-30 08:14:51

End at: 2018-06-30 08:15:21

Local clock offset: 3.706 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-06-30 12:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.73 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.06%

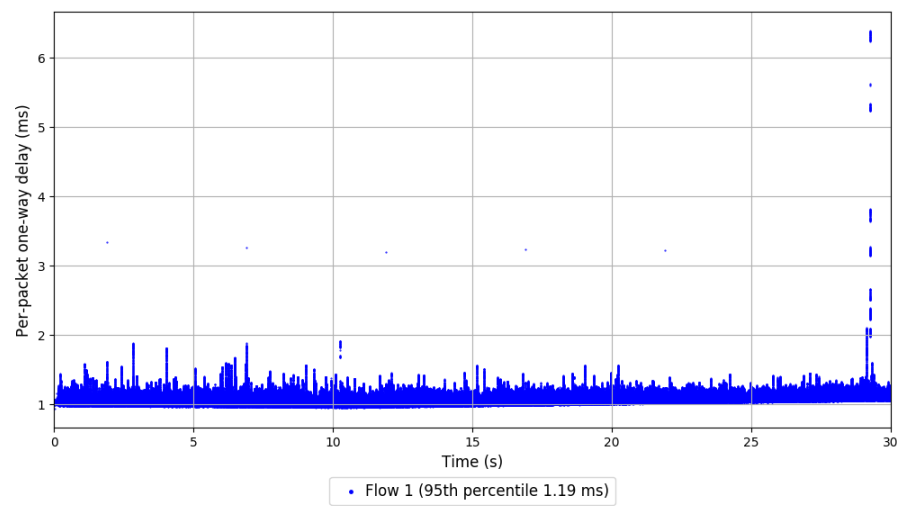
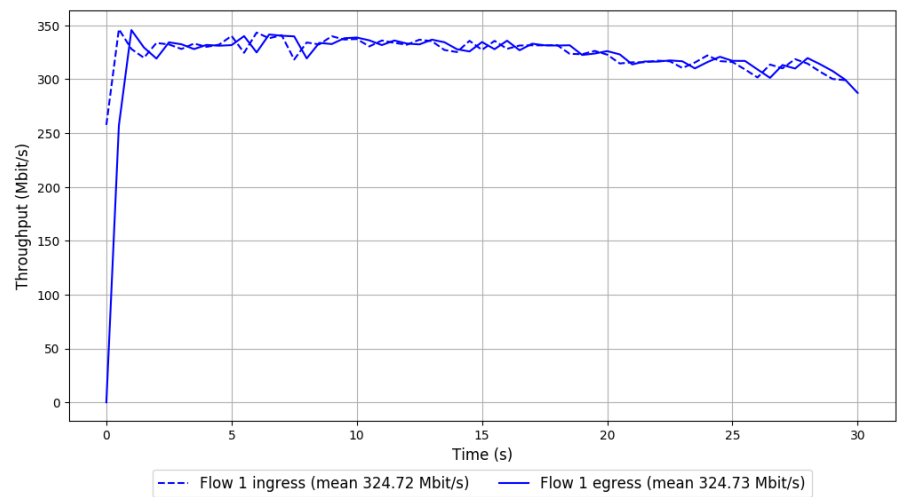
-- Flow 1:

Average throughput: 324.73 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link

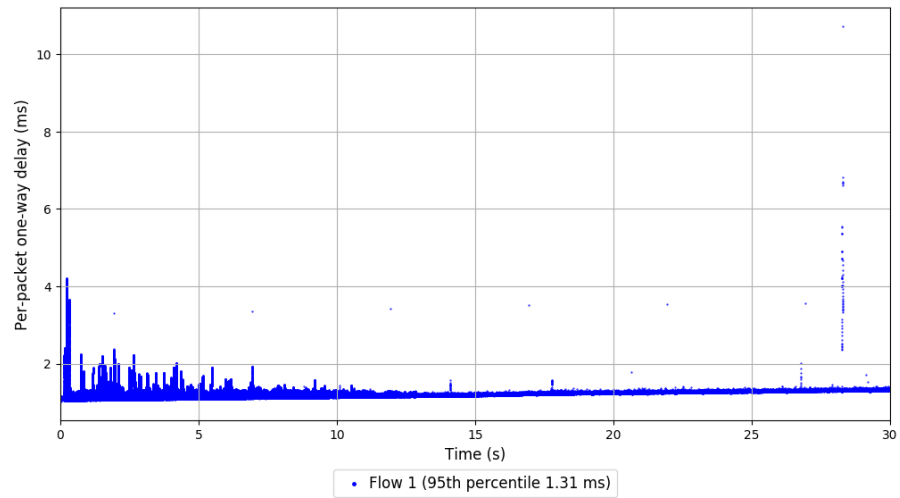
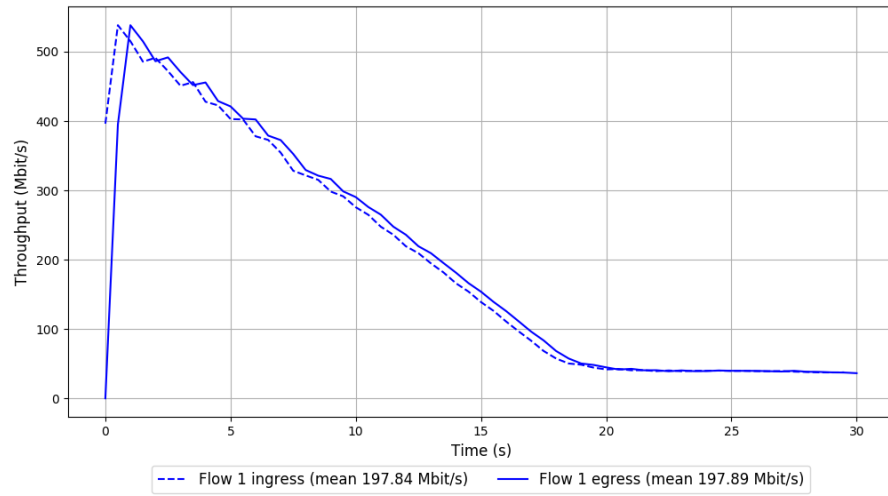


Run 6: Statistics of TCP Vegas

Start at: 2018-06-30 08:40:32
End at: 2018-06-30 08:41:02
Local clock offset: -0.508 ms
Remote clock offset: -0.506 ms

Below is generated by plot.py at 2018-06-30 12:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.89 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 197.89 Mbit/s
95th percentile per-packet one-way delay: 1.307 ms
Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-30 09:06:09

End at: 2018-06-30 09:06:40

Local clock offset: -0.365 ms

Remote clock offset: 3.225 ms

Below is generated by plot.py at 2018-06-30 12:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.61 Mbit/s

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

Loss rate: 0.03%

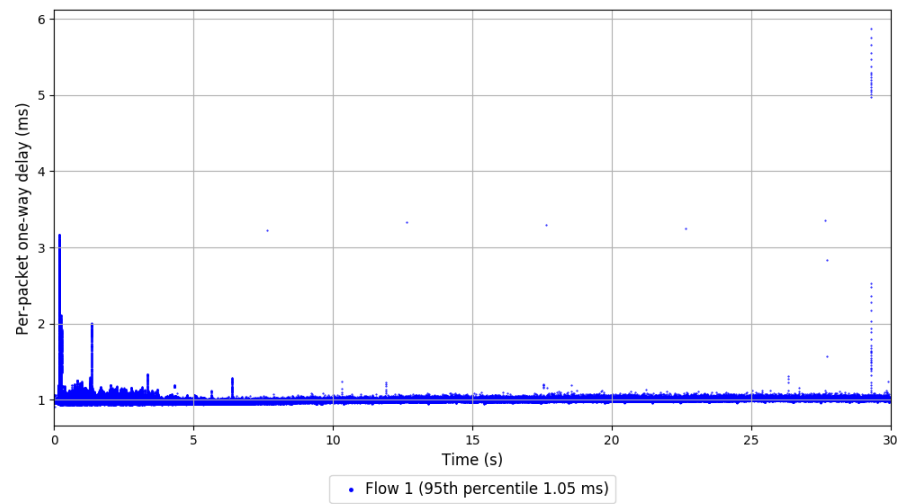
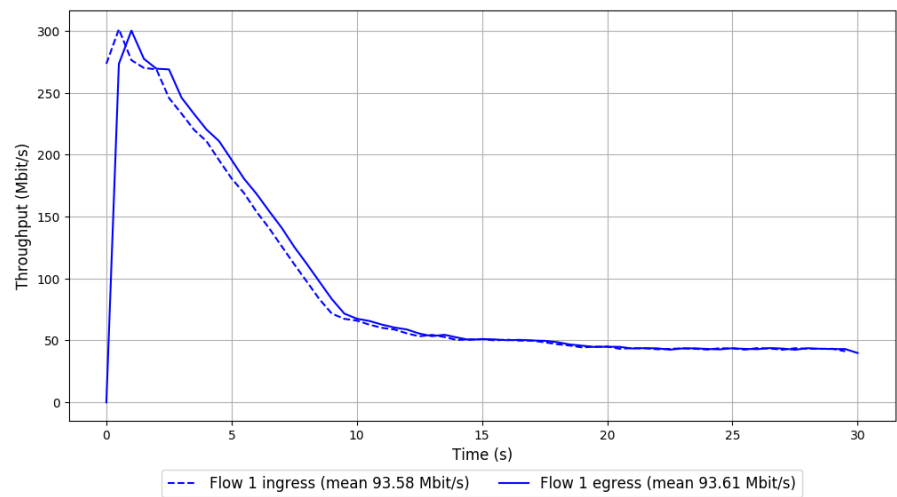
-- Flow 1:

Average throughput: 93.61 Mbit/s

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

Loss rate: 0.03%

Run 7: Report of TCP Vegas — Data Link

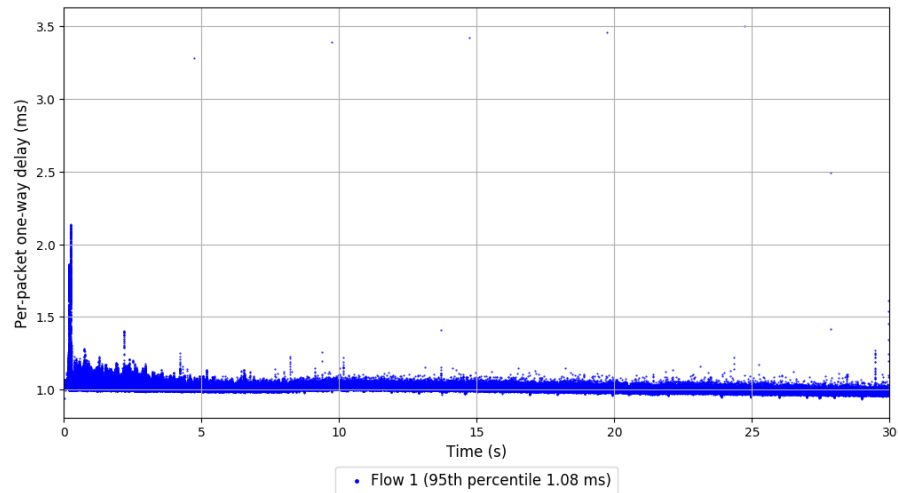
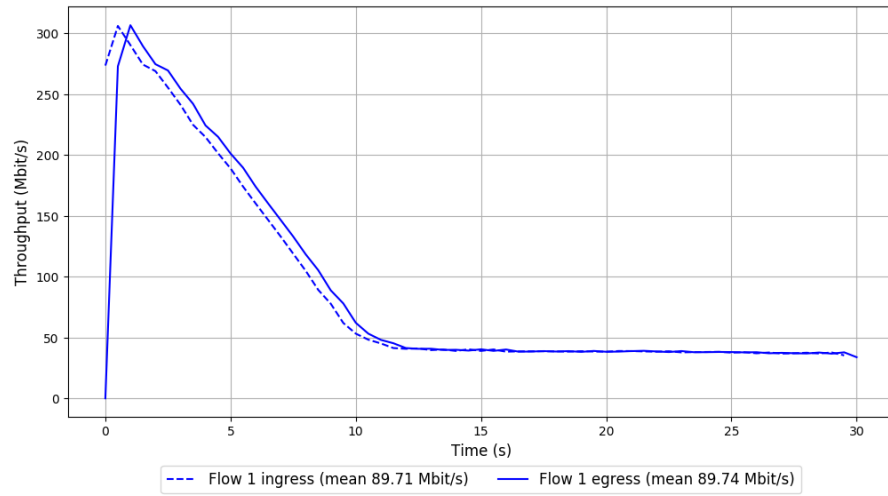


Run 8: Statistics of TCP Vegas

Start at: 2018-06-30 09:31:36
End at: 2018-06-30 09:32:06
Local clock offset: 0.344 ms
Remote clock offset: -1.313 ms

Below is generated by plot.py at 2018-06-30 12:29:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 89.74 Mbit/s
95th percentile per-packet one-way delay: 1.081 ms
Loss rate: 0.03%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-30 09:57:02

End at: 2018-06-30 09:57:32

Local clock offset: 2.941 ms

Remote clock offset: 1.142 ms

Below is generated by plot.py at 2018-06-30 12:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.33 Mbit/s

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

Loss rate: 0.03%

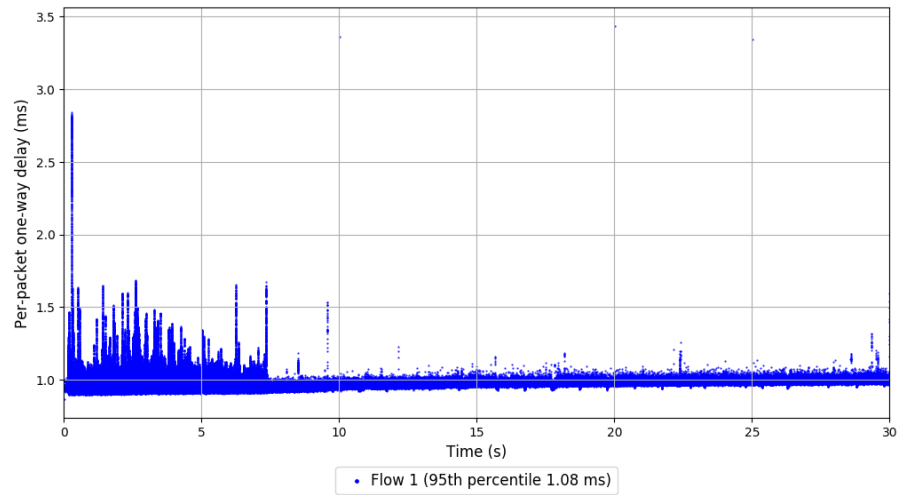
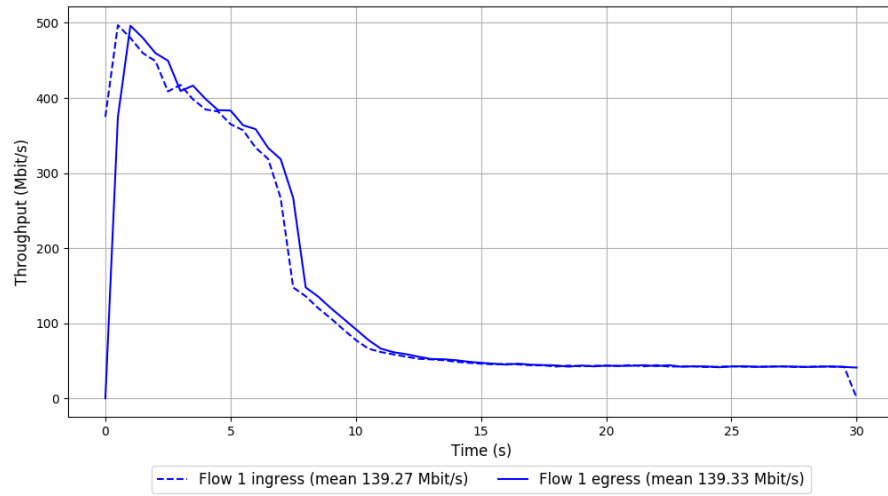
-- Flow 1:

Average throughput: 139.33 Mbit/s

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

Loss rate: 0.03%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-30 10:22:32

End at: 2018-06-30 10:23:02

Local clock offset: 4.753 ms

Remote clock offset: 2.853 ms

Below is generated by plot.py at 2018-06-30 12:29:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.60 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.02%

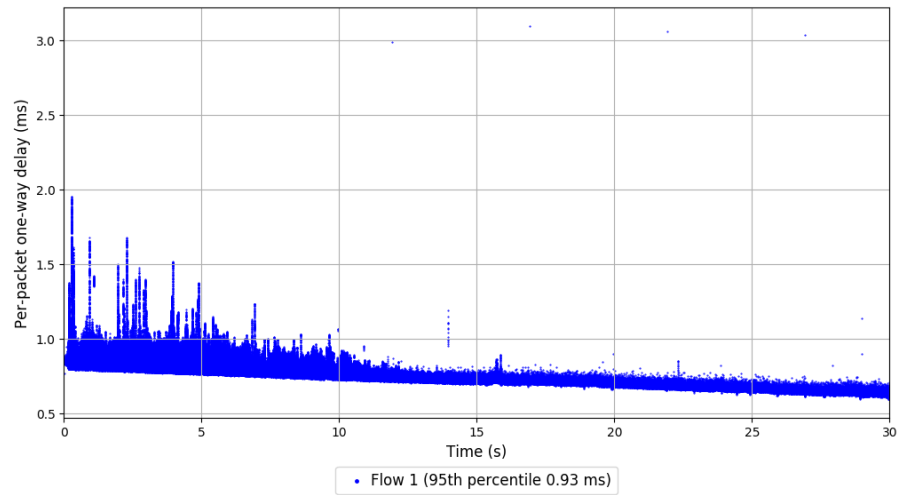
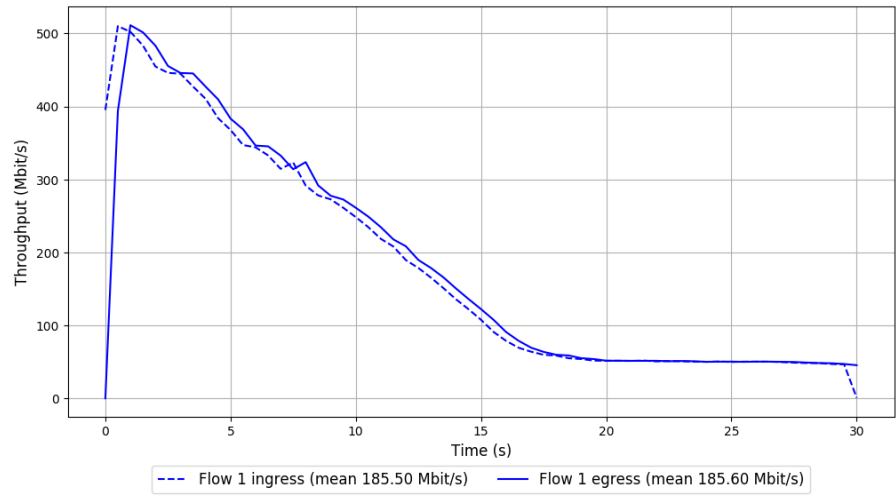
-- Flow 1:

Average throughput: 185.60 Mbit/s

95th percentile per-packet one-way delay: 0.926 ms

Loss rate: 0.02%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-30 06:39:24

End at: 2018-06-30 06:39:54

Local clock offset: -0.005 ms

Remote clock offset: 9.947 ms

Below is generated by plot.py at 2018-06-30 12:31:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 299.69 Mbit/s

95th percentile per-packet one-way delay: 6.478 ms

Loss rate: 0.02%

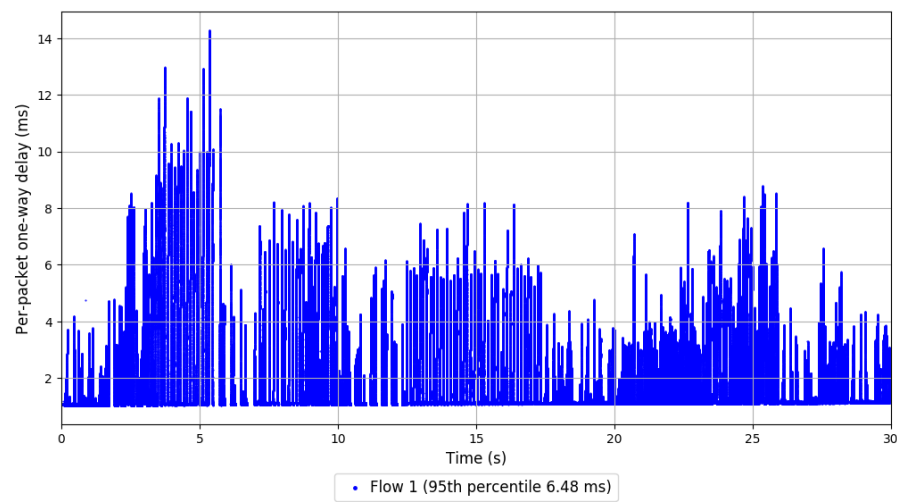
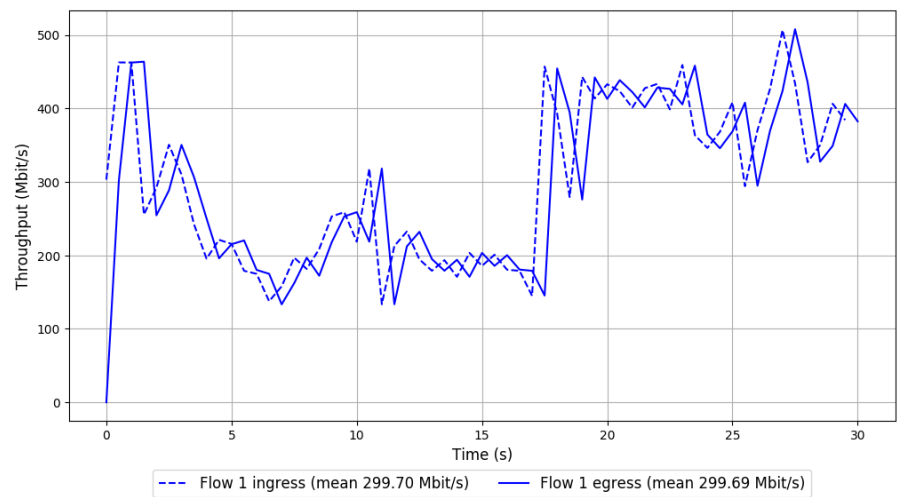
-- Flow 1:

Average throughput: 299.69 Mbit/s

95th percentile per-packet one-way delay: 6.478 ms

Loss rate: 0.02%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-30 07:05:02

End at: 2018-06-30 07:05:32

Local clock offset: 0.154 ms

Remote clock offset: 4.095 ms

Below is generated by plot.py at 2018-06-30 12:32:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 336.39 Mbit/s

95th percentile per-packet one-way delay: 5.668 ms

Loss rate: 0.15%

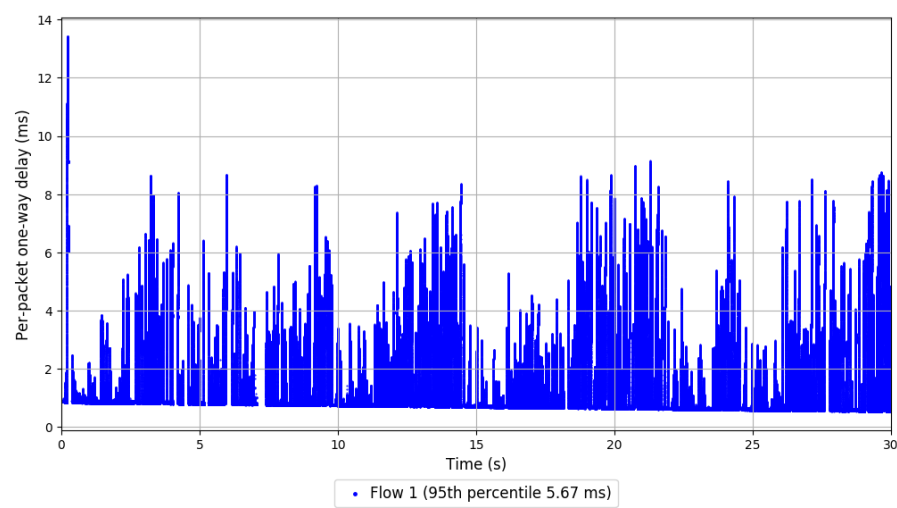
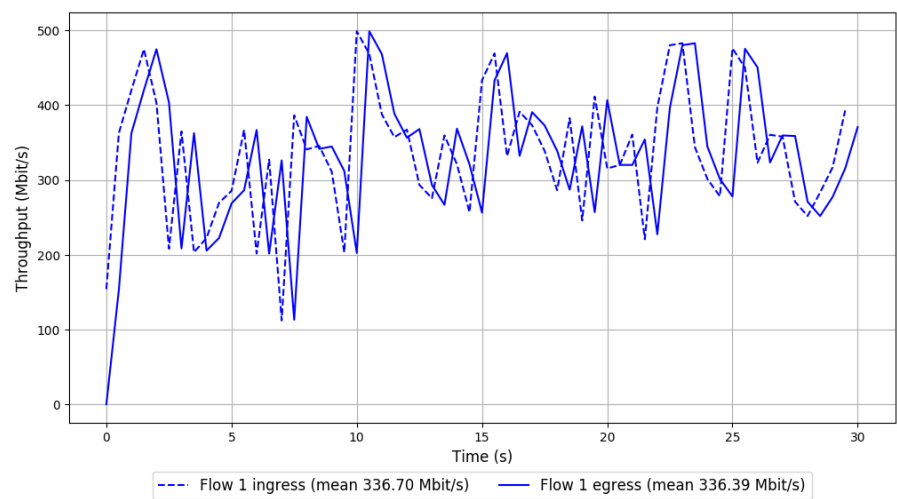
-- Flow 1:

Average throughput: 336.39 Mbit/s

95th percentile per-packet one-way delay: 5.668 ms

Loss rate: 0.15%

Run 2: Report of Verus — Data Link

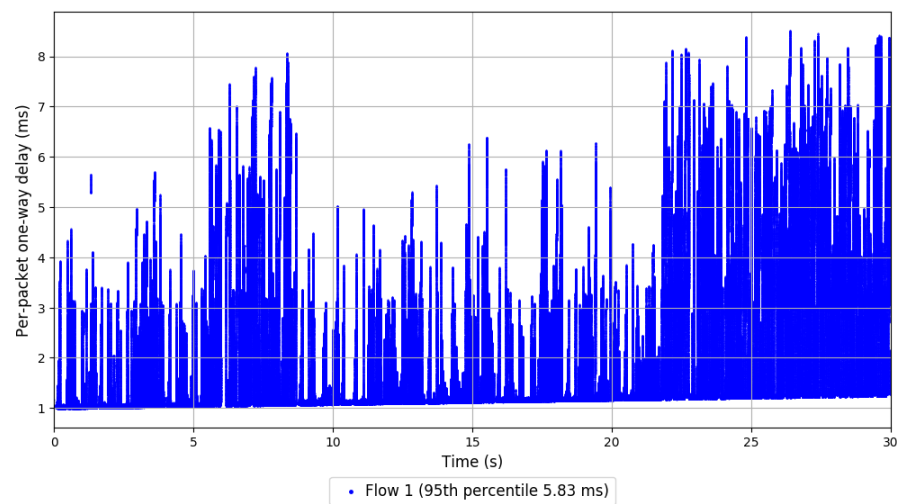
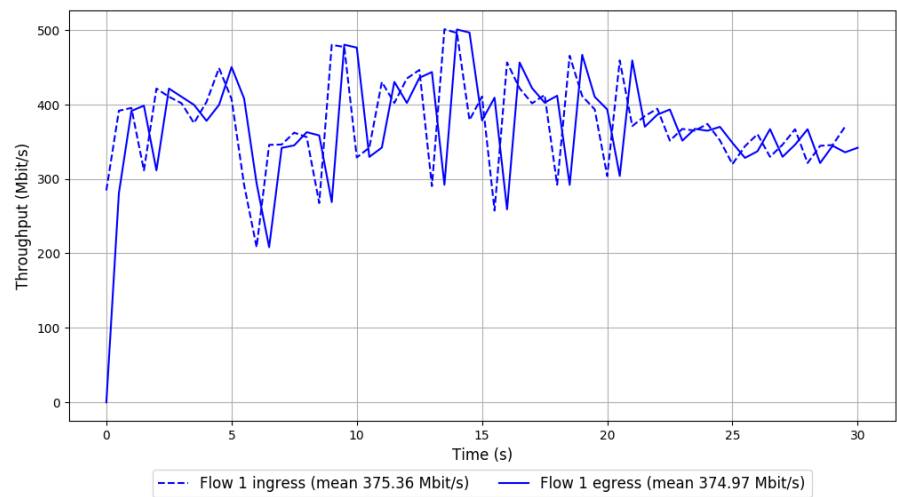


Run 3: Statistics of Verus

Start at: 2018-06-30 07:30:41
End at: 2018-06-30 07:31:11
Local clock offset: 2.966 ms
Remote clock offset: -2.489 ms

Below is generated by plot.py at 2018-06-30 12:33:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 374.97 Mbit/s
95th percentile per-packet one-way delay: 5.835 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 374.97 Mbit/s
95th percentile per-packet one-way delay: 5.835 ms
Loss rate: 0.17%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-30 07:56:19

End at: 2018-06-30 07:56:49

Local clock offset: 3.552 ms

Remote clock offset: 2.5 ms

Below is generated by plot.py at 2018-06-30 12:33:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.53 Mbit/s

95th percentile per-packet one-way delay: 4.820 ms

Loss rate: 0.07%

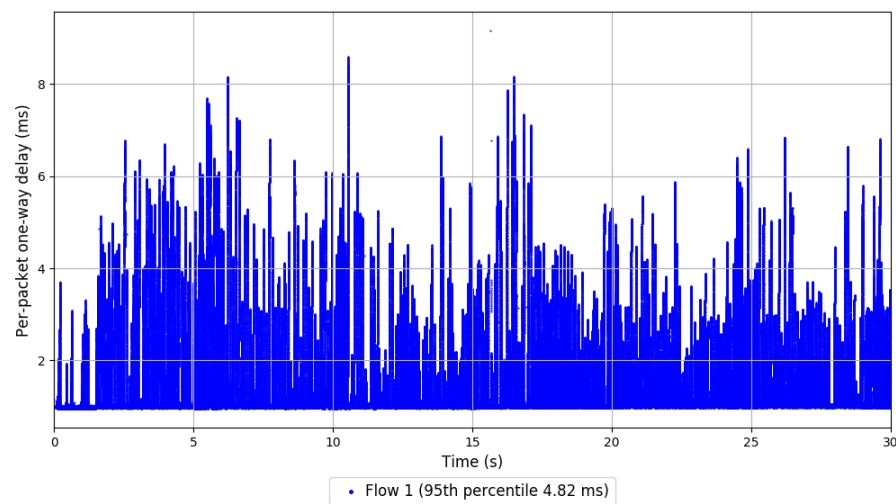
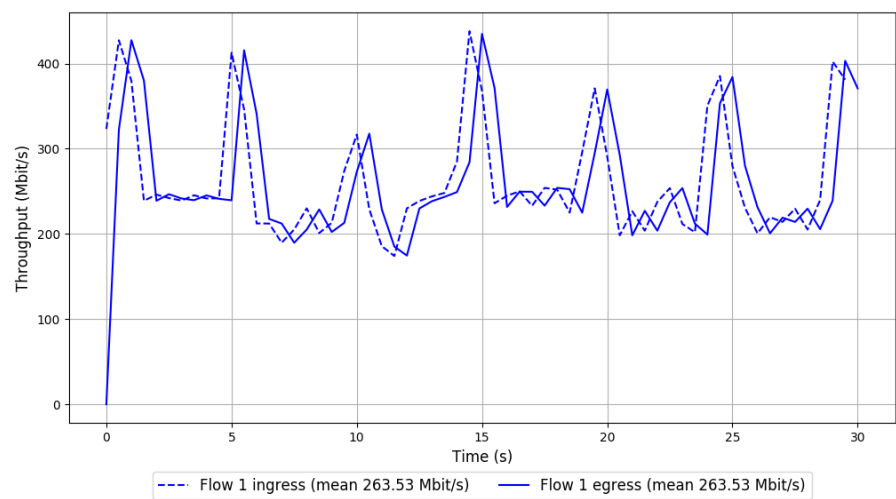
-- Flow 1:

Average throughput: 263.53 Mbit/s

95th percentile per-packet one-way delay: 4.820 ms

Loss rate: 0.07%

Run 4: Report of Verus — Data Link

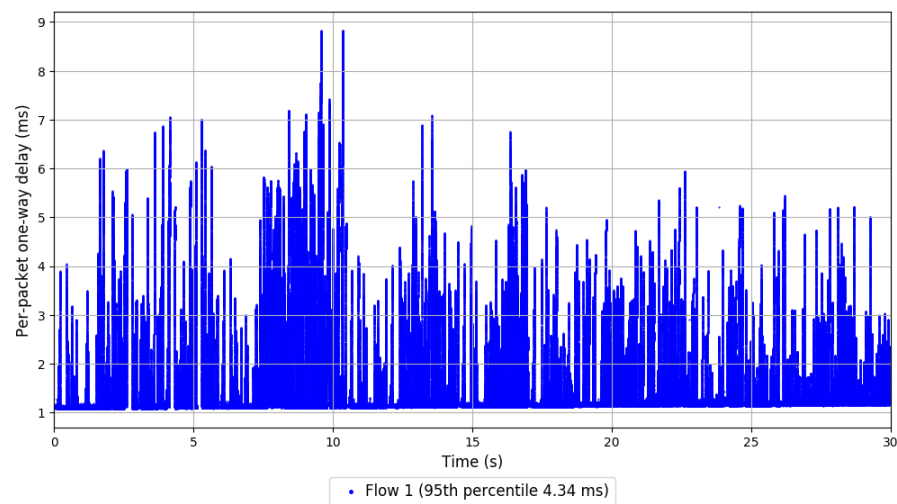
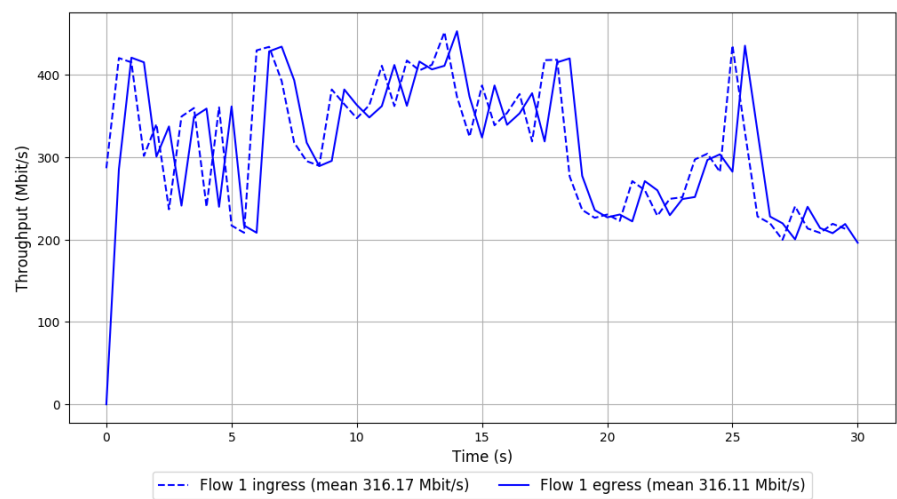


Run 5: Statistics of Verus

Start at: 2018-06-30 08:21:57
End at: 2018-06-30 08:22:27
Local clock offset: 1.515 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-06-30 12:33:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 316.11 Mbit/s
95th percentile per-packet one-way delay: 4.344 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 316.11 Mbit/s
95th percentile per-packet one-way delay: 4.344 ms
Loss rate: 0.09%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-30 08:47:33

End at: 2018-06-30 08:48:03

Local clock offset: -0.629 ms

Remote clock offset: 1.431 ms

Below is generated by plot.py at 2018-06-30 12:33:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.23 Mbit/s

95th percentile per-packet one-way delay: 5.570 ms

Loss rate: 0.03%

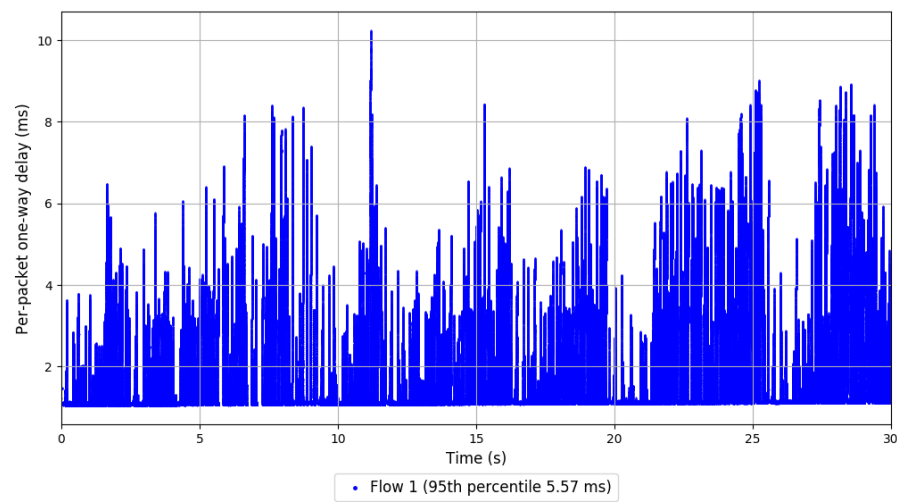
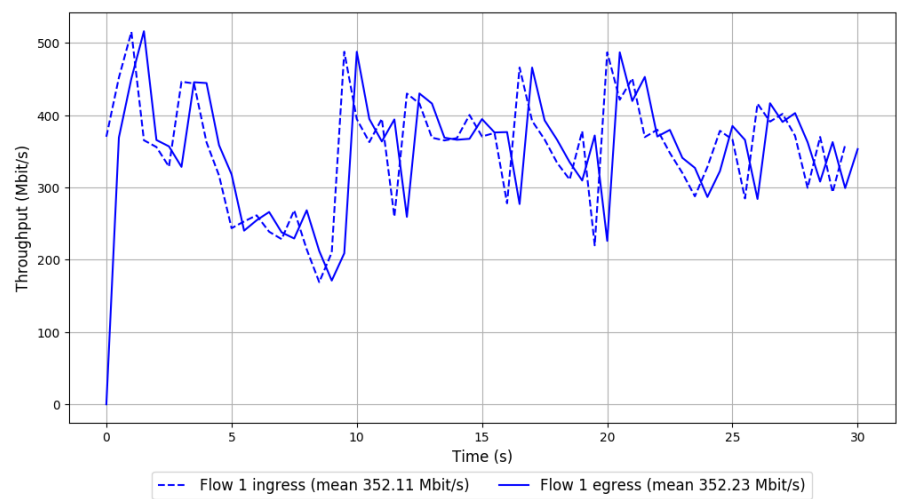
-- Flow 1:

Average throughput: 352.23 Mbit/s

95th percentile per-packet one-way delay: 5.570 ms

Loss rate: 0.03%

Run 6: Report of Verus — Data Link

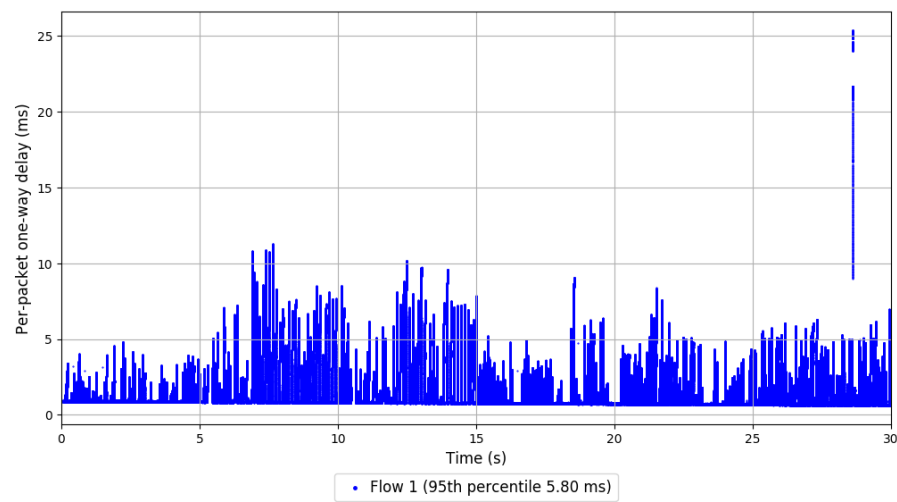
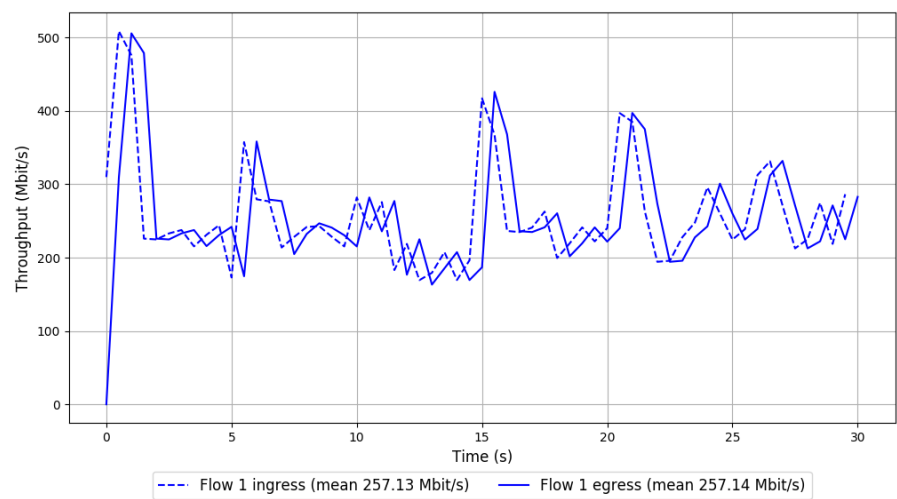


Run 7: Statistics of Verus

Start at: 2018-06-30 09:13:07
End at: 2018-06-30 09:13:37
Local clock offset: -0.434 ms
Remote clock offset: 3.487 ms

Below is generated by plot.py at 2018-06-30 12:33:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 257.14 Mbit/s
95th percentile per-packet one-way delay: 5.804 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 257.14 Mbit/s
95th percentile per-packet one-way delay: 5.804 ms
Loss rate: 0.02%

Run 7: Report of Verus — Data Link

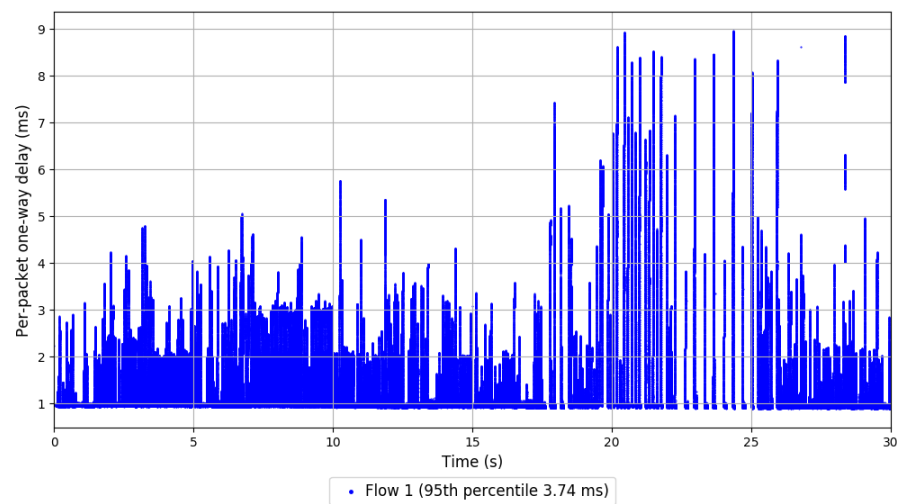
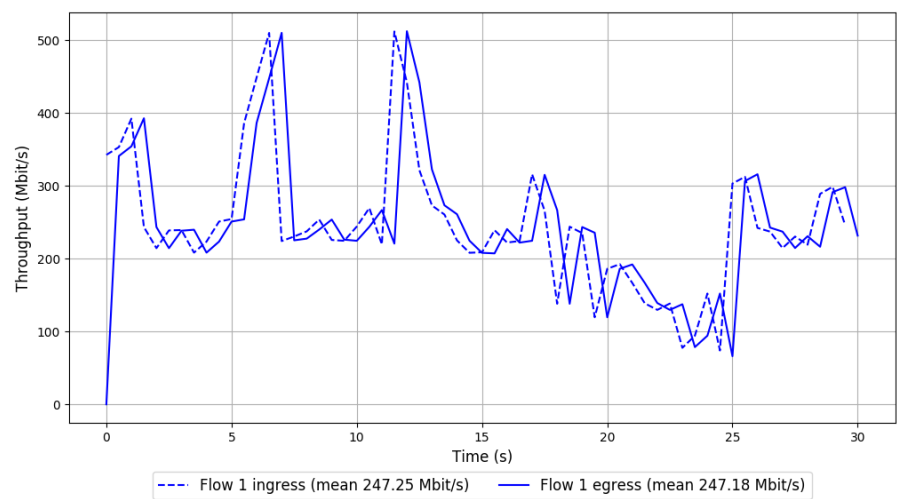


Run 8: Statistics of Verus

Start at: 2018-06-30 09:38:33
End at: 2018-06-30 09:39:03
Local clock offset: 0.387 ms
Remote clock offset: -1.979 ms

Below is generated by plot.py at 2018-06-30 12:33:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.18 Mbit/s
95th percentile per-packet one-way delay: 3.743 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 247.18 Mbit/s
95th percentile per-packet one-way delay: 3.743 ms
Loss rate: 0.10%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-30 10:04:02

End at: 2018-06-30 10:04:33

Local clock offset: 3.778 ms

Remote clock offset: 2.347 ms

Below is generated by plot.py at 2018-06-30 12:33:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 220.80 Mbit/s

95th percentile per-packet one-way delay: 3.169 ms

Loss rate: 0.00%

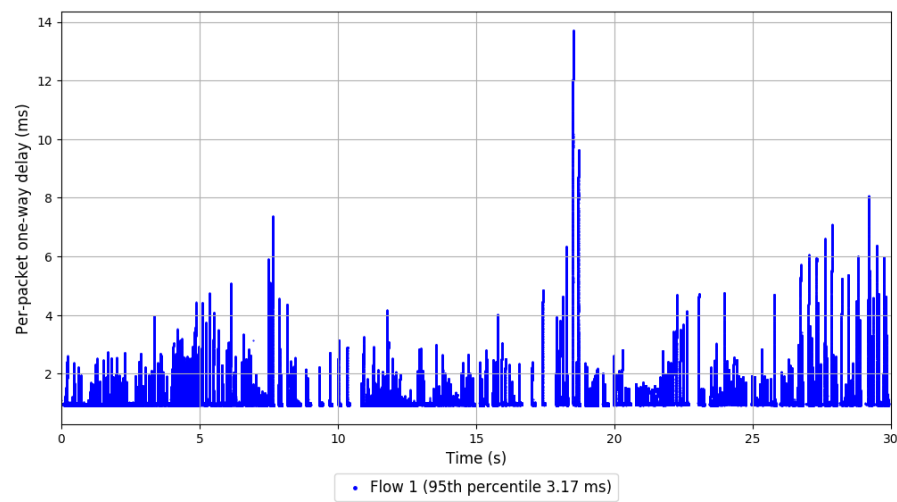
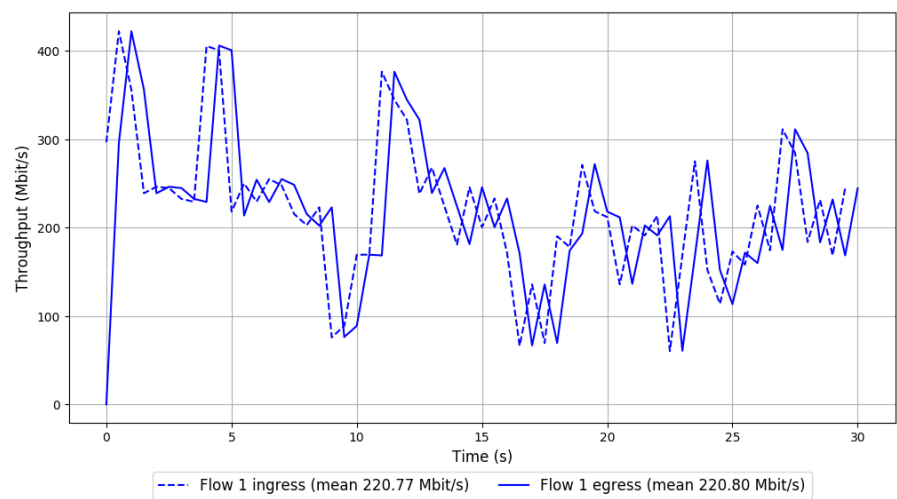
-- Flow 1:

Average throughput: 220.80 Mbit/s

95th percentile per-packet one-way delay: 3.169 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-30 10:29:32

End at: 2018-06-30 10:30:02

Local clock offset: 5.167 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2018-06-30 12:36:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.04 Mbit/s

95th percentile per-packet one-way delay: 4.657 ms

Loss rate: 0.05%

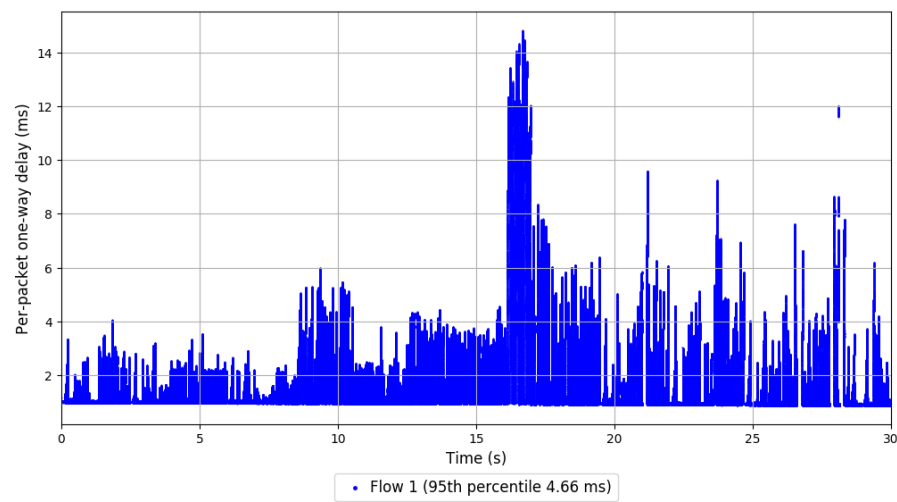
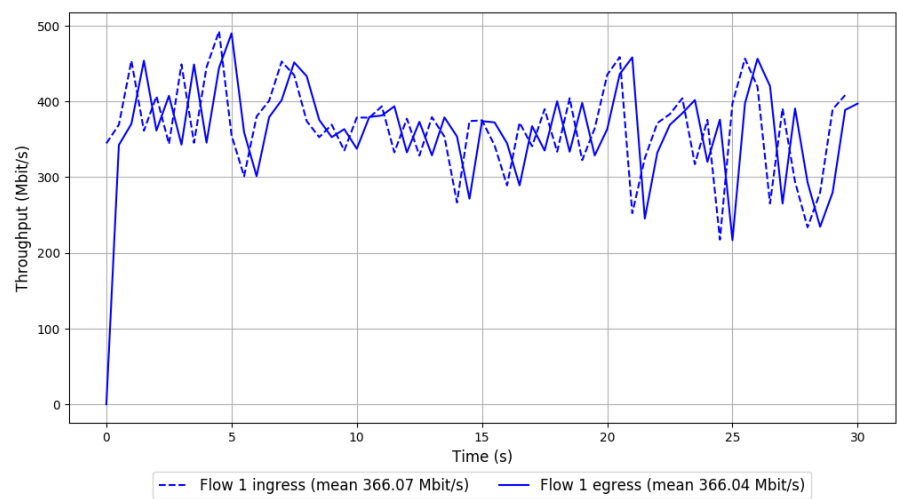
-- Flow 1:

Average throughput: 366.04 Mbit/s

95th percentile per-packet one-way delay: 4.657 ms

Loss rate: 0.05%

Run 10: Report of Verus — Data Link

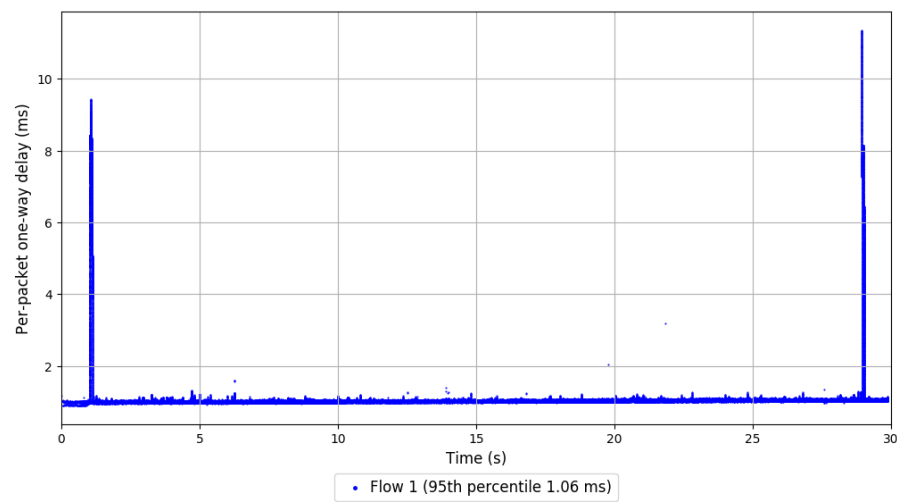
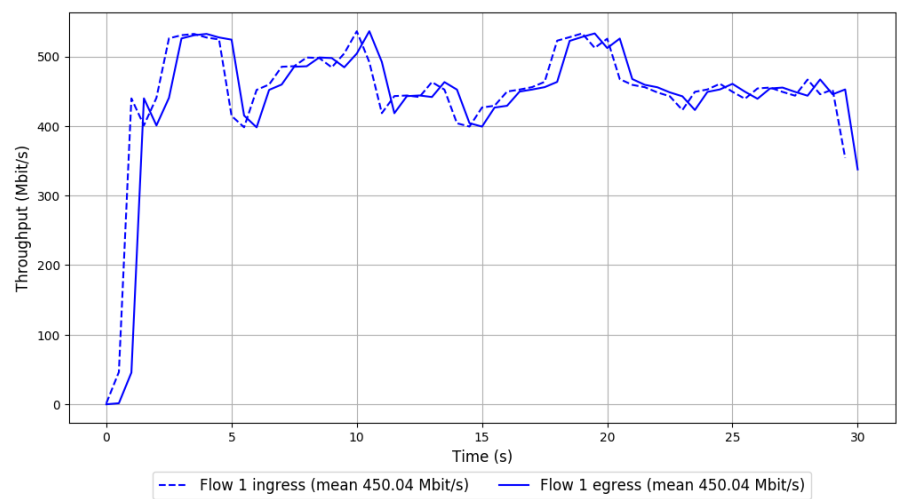


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-30 06:48:47
End at: 2018-06-30 06:49:17
Local clock offset: -0.065 ms
Remote clock offset: 11.425 ms

Below is generated by plot.py at 2018-06-30 12:37:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 450.04 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 450.04 Mbit/s
95th percentile per-packet one-way delay: 1.056 ms
Loss rate: 0.06%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-30 07:14:26

End at: 2018-06-30 07:14:56

Local clock offset: 0.102 ms

Remote clock offset: 0.102 ms

Below is generated by plot.py at 2018-06-30 12:37:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.17 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.07%

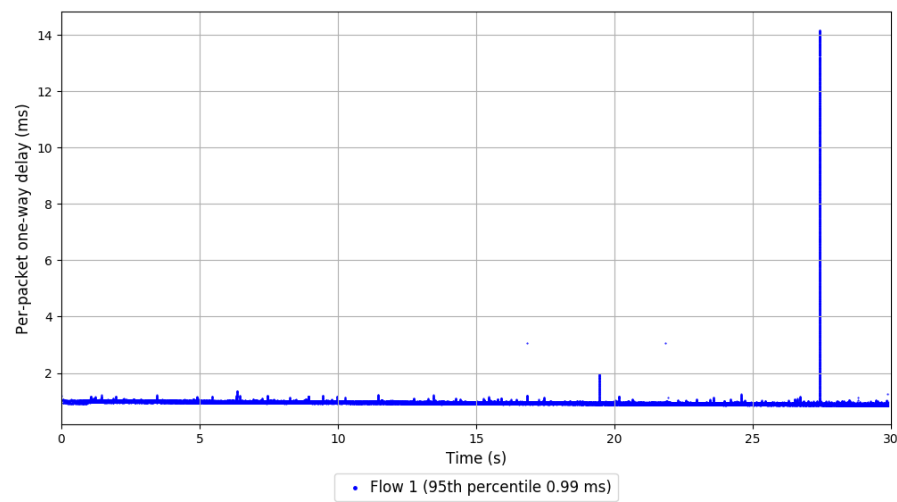
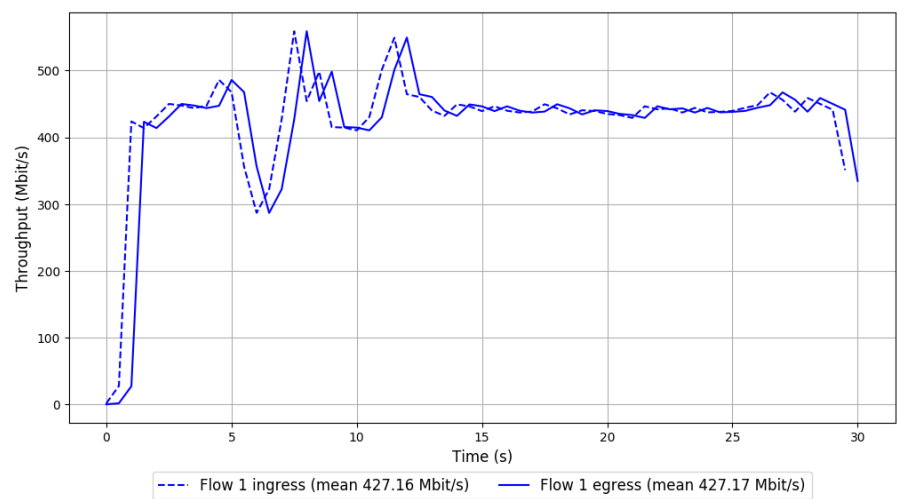
-- Flow 1:

Average throughput: 427.17 Mbit/s

95th percentile per-packet one-way delay: 0.992 ms

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-30 07:40:09

End at: 2018-06-30 07:40:39

Local clock offset: 3.598 ms

Remote clock offset: 0.995 ms

Below is generated by plot.py at 2018-06-30 12:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 438.85 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.06%

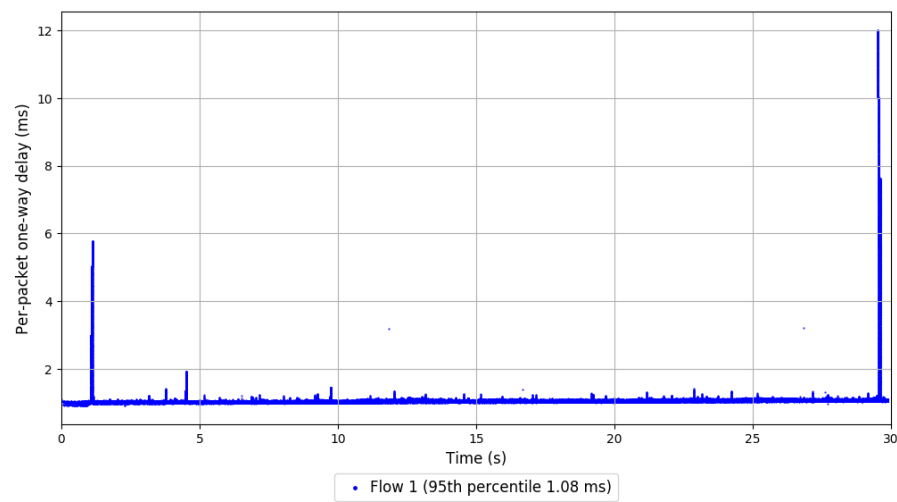
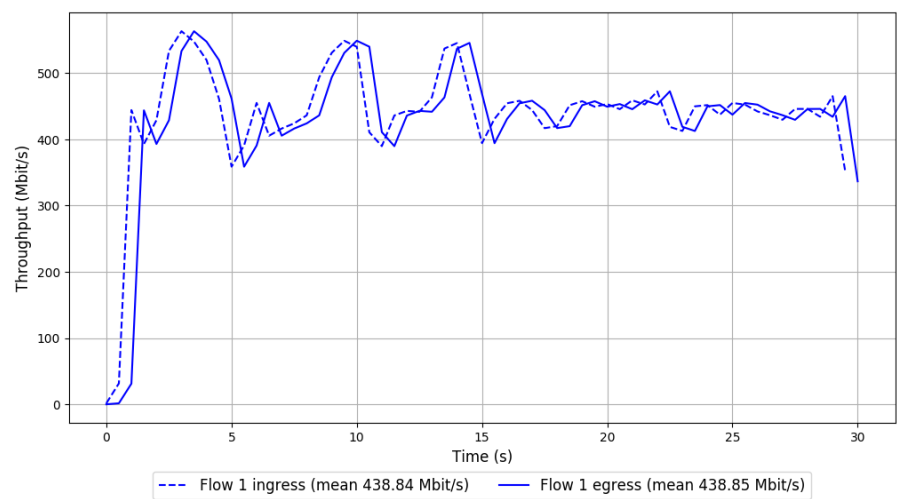
-- Flow 1:

Average throughput: 438.85 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.06%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-30 08:05:42

End at: 2018-06-30 08:06:12

Local clock offset: 3.514 ms

Remote clock offset: 2.346 ms

Below is generated by plot.py at 2018-06-30 12:37:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.71 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.06%

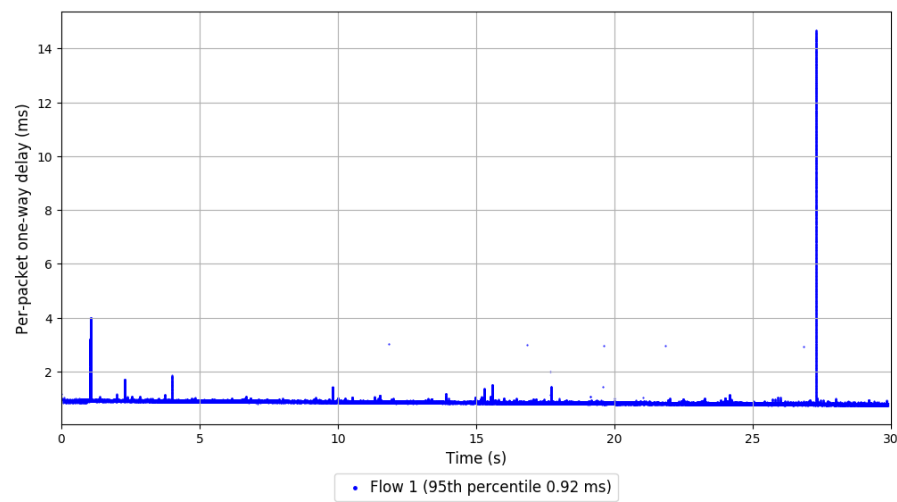
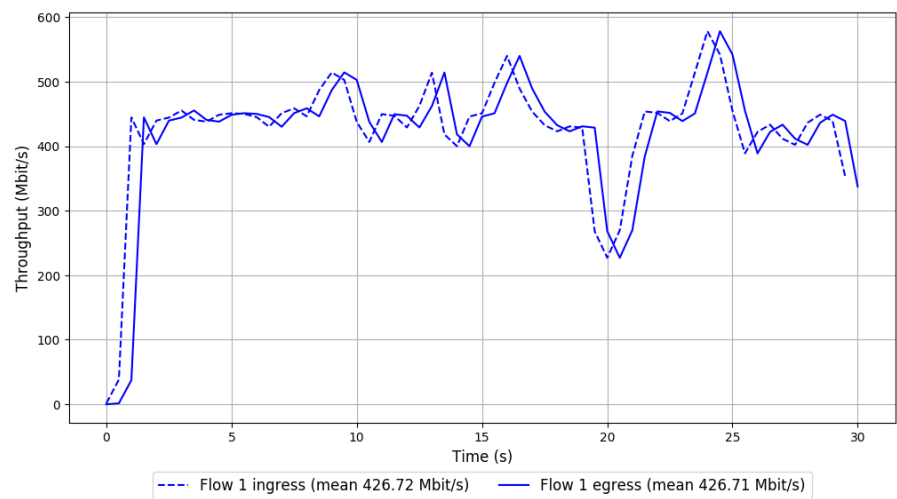
-- Flow 1:

Average throughput: 426.71 Mbit/s

95th percentile per-packet one-way delay: 0.920 ms

Loss rate: 0.06%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-30 08:31:22

End at: 2018-06-30 08:31:52

Local clock offset: 0.167 ms

Remote clock offset: -0.847 ms

Below is generated by plot.py at 2018-06-30 12:38:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.32 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.09%

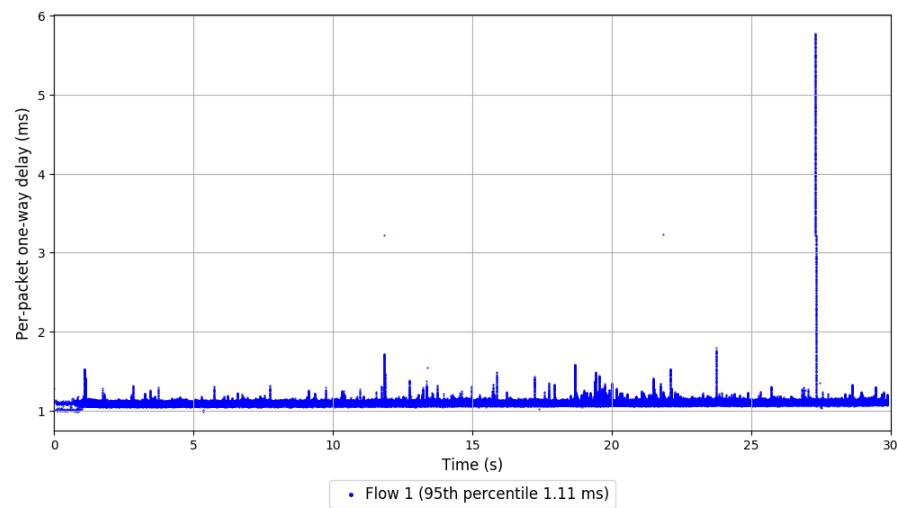
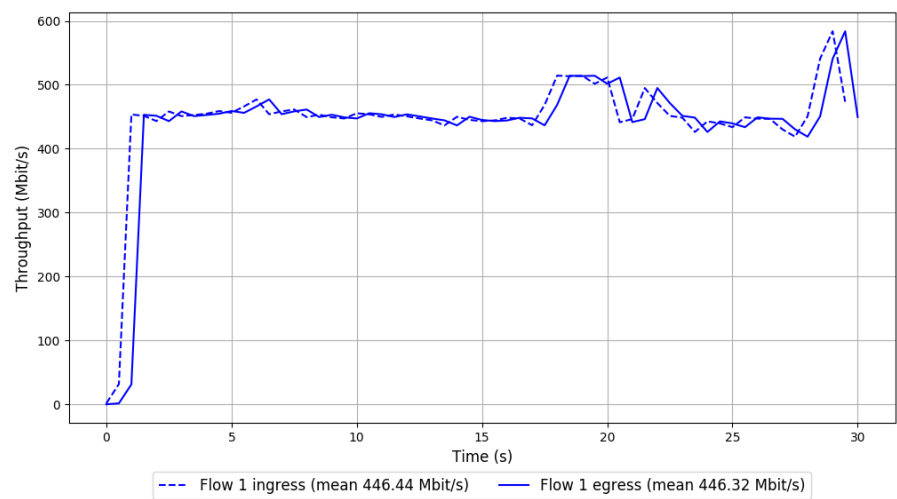
-- Flow 1:

Average throughput: 446.32 Mbit/s

95th percentile per-packet one-way delay: 1.115 ms

Loss rate: 0.09%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-30 08:57:00

End at: 2018-06-30 08:57:30

Local clock offset: -0.264 ms

Remote clock offset: 2.749 ms

Below is generated by plot.py at 2018-06-30 12:38:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 459.88 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.06%

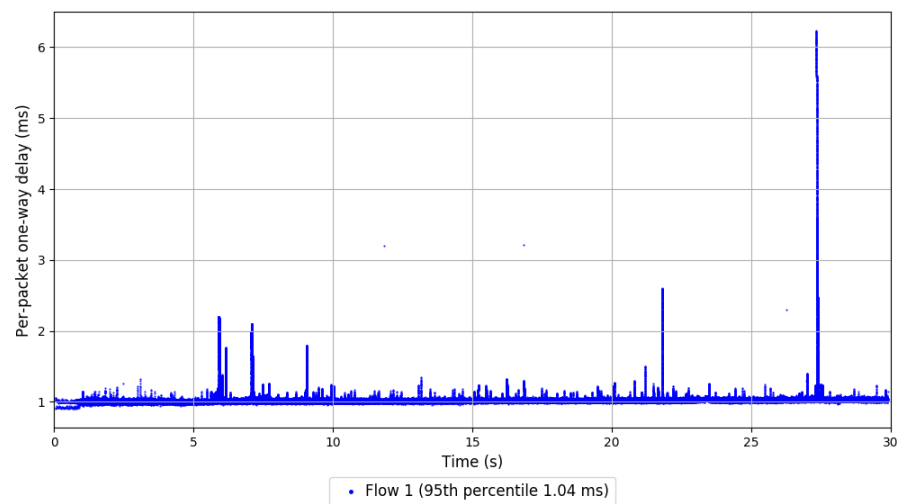
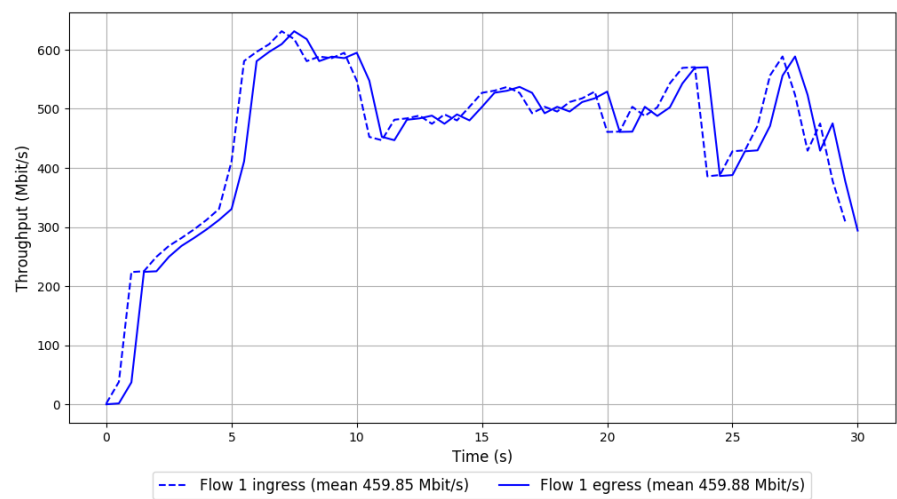
-- Flow 1:

Average throughput: 459.88 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.06%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-30 09:22:27

End at: 2018-06-30 09:22:58

Local clock offset: 0.01 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-06-30 12:39:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 442.27 Mbit/s

95th percentile per-packet one-way delay: 0.872 ms

Loss rate: 0.08%

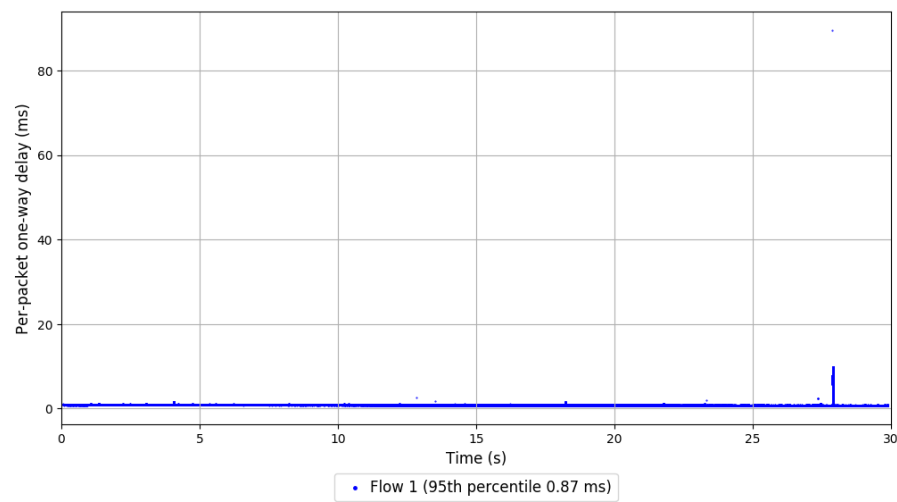
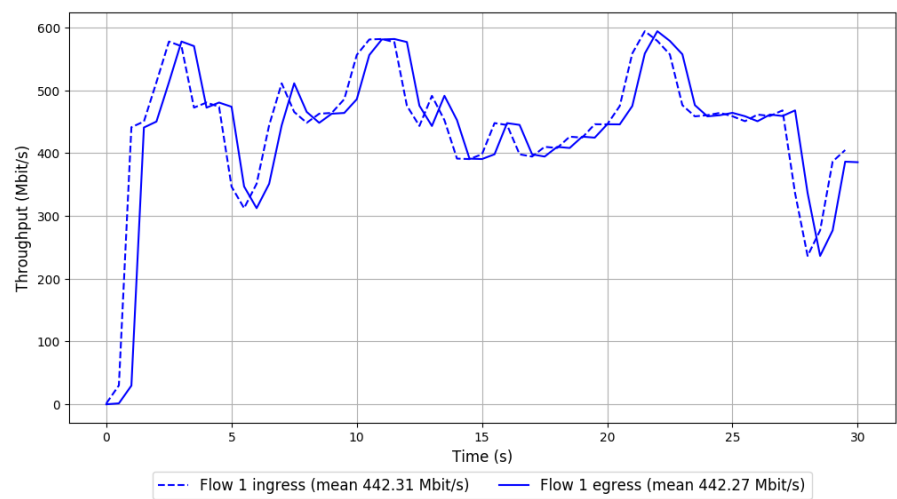
-- Flow 1:

Average throughput: 442.27 Mbit/s

95th percentile per-packet one-way delay: 0.872 ms

Loss rate: 0.08%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-30 09:47:53

End at: 2018-06-30 09:48:23

Local clock offset: 1.145 ms

Remote clock offset: -2.491 ms

Below is generated by plot.py at 2018-06-30 12:39:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.57 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.06%

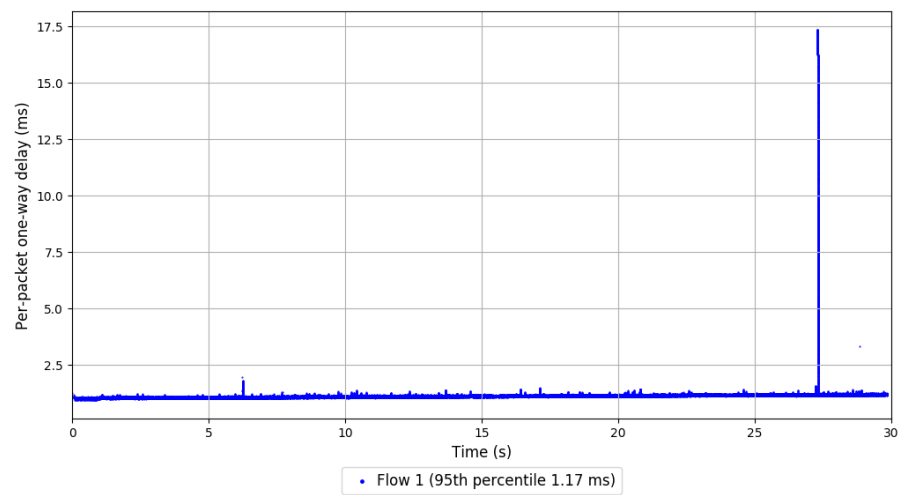
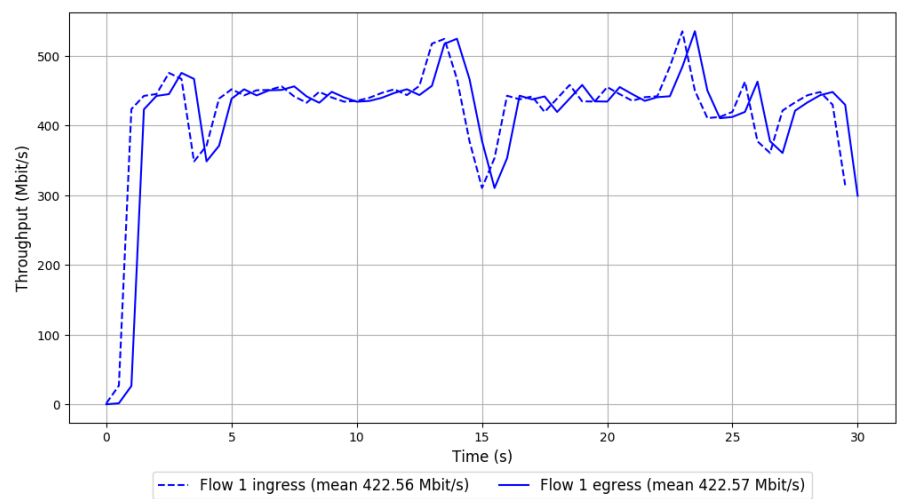
-- Flow 1:

Average throughput: 422.57 Mbit/s

95th percentile per-packet one-way delay: 1.171 ms

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-30 10:13:24

End at: 2018-06-30 10:13:54

Local clock offset: 4.396 ms

Remote clock offset: 2.993 ms

Below is generated by plot.py at 2018-06-30 12:40:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.43 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.07%

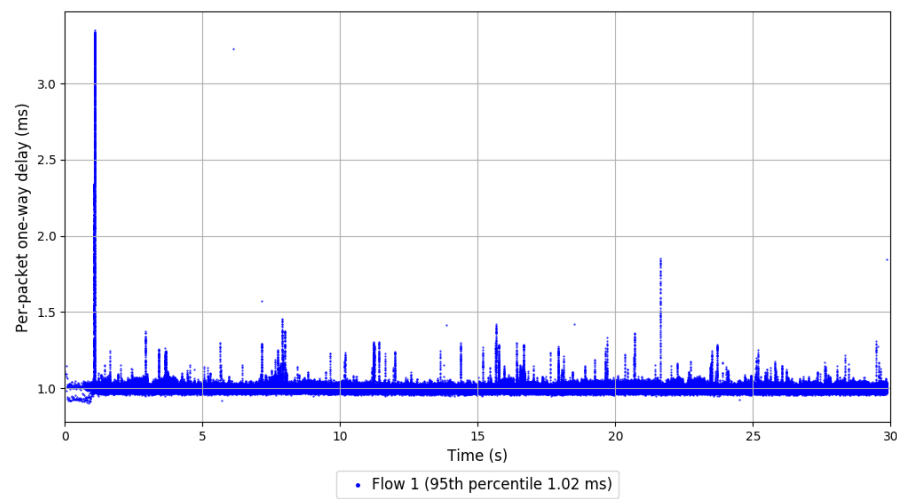
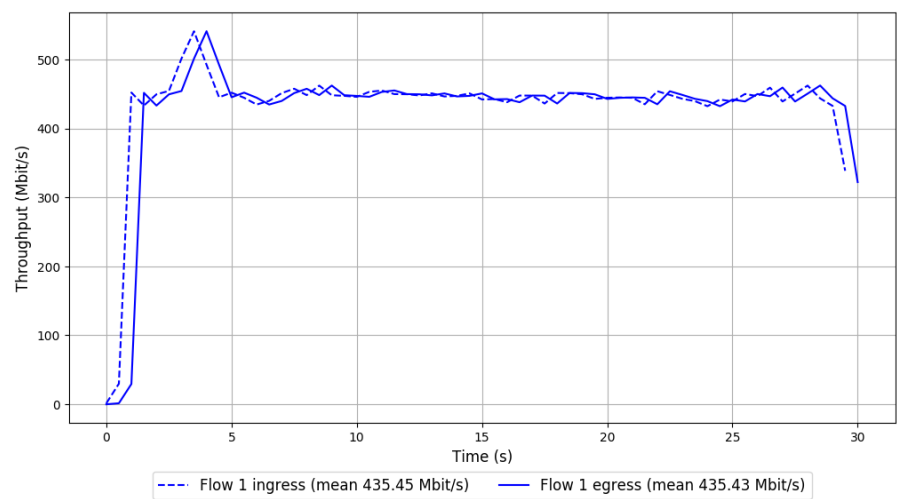
-- Flow 1:

Average throughput: 435.43 Mbit/s

95th percentile per-packet one-way delay: 1.018 ms

Loss rate: 0.07%

Run 9: Report of PCC-Vivace — Data Link

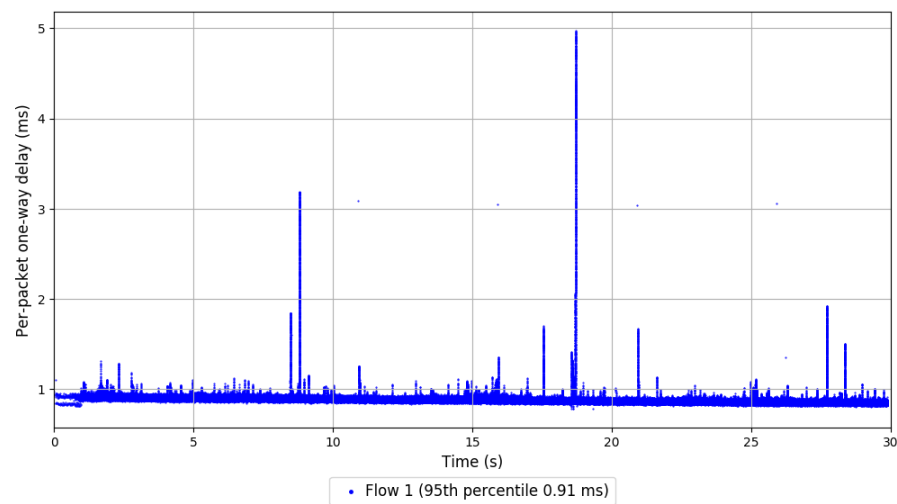
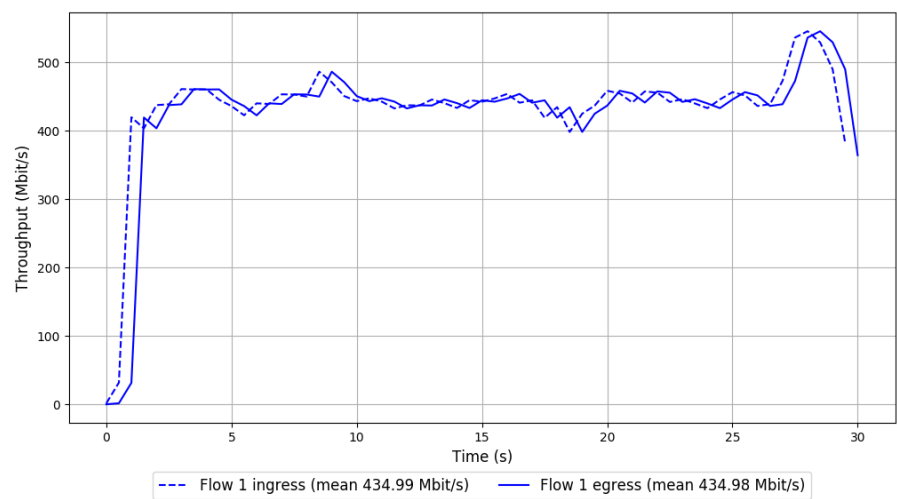


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-30 10:39:01
End at: 2018-06-30 10:39:31
Local clock offset: 5.442 ms
Remote clock offset: -0.412 ms

Below is generated by plot.py at 2018-06-30 12:40:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 434.98 Mbit/s
95th percentile per-packet one-way delay: 0.912 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 434.98 Mbit/s
95th percentile per-packet one-way delay: 0.912 ms
Loss rate: 0.07%

Run 10: Report of PCC-Vivace — Data Link

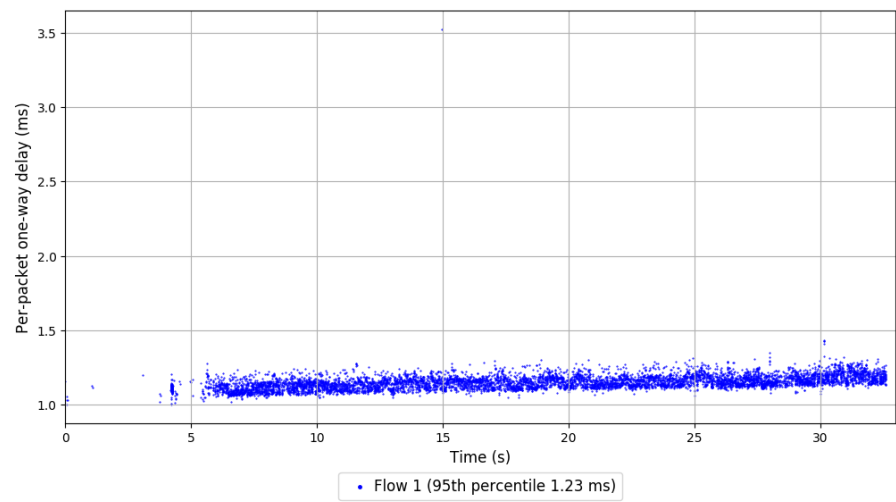
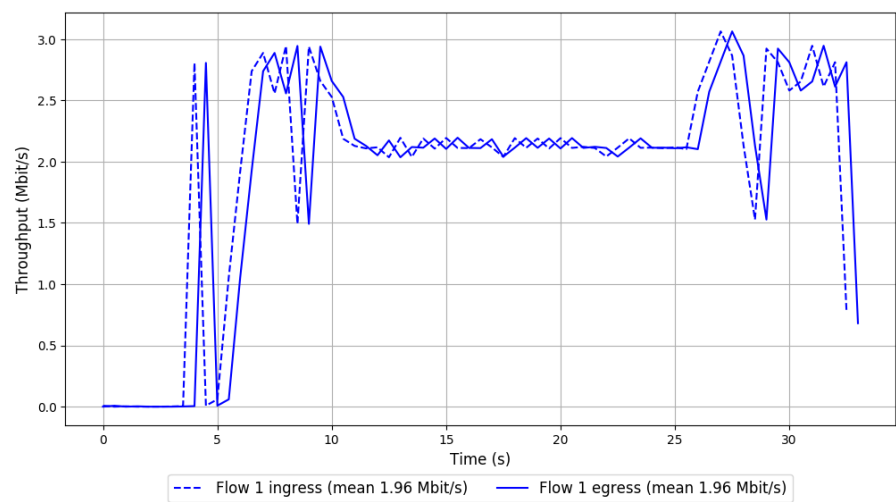


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-30 06:38:06
End at: 2018-06-30 06:38:36
Local clock offset: -0.004 ms
Remote clock offset: 9.693 ms

# Below is generated by plot.py at 2018-06-30 12:40:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 1.230 ms
Loss rate: 0.08%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-30 07:03:44

End at: 2018-06-30 07:04:14

Local clock offset: 0.152 ms

Remote clock offset: 5.007 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 0.820 ms

Loss rate: 0.07%

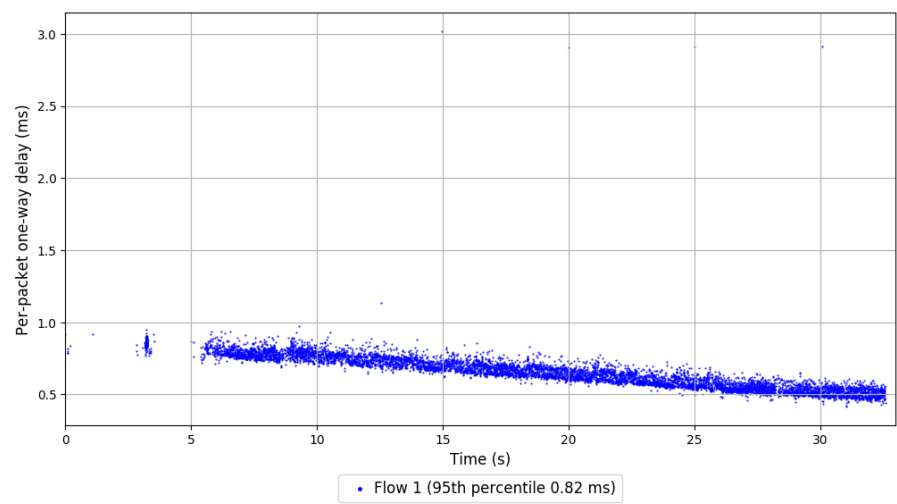
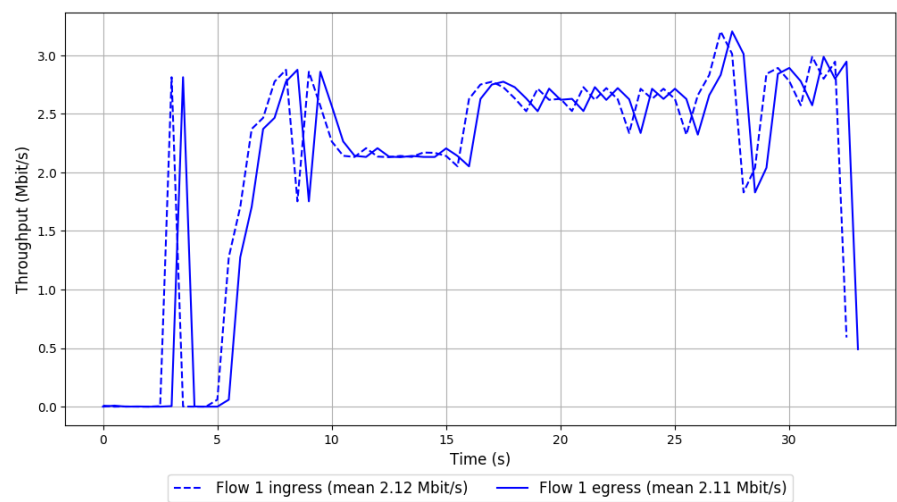
-- Flow 1:

Average throughput: 2.11 Mbit/s

95th percentile per-packet one-way delay: 0.820 ms

Loss rate: 0.07%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-30 07:29:23

End at: 2018-06-30 07:29:53

Local clock offset: 2.826 ms

Remote clock offset: -2.348 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

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

Loss rate: 0.07%

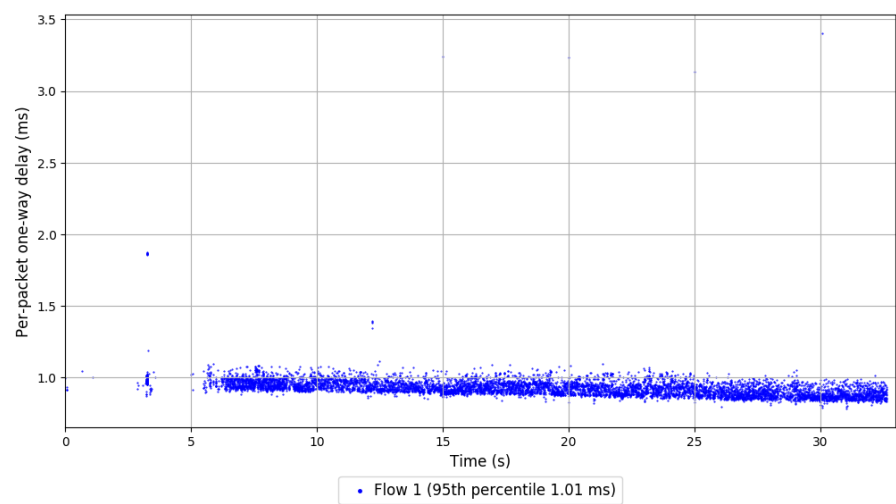
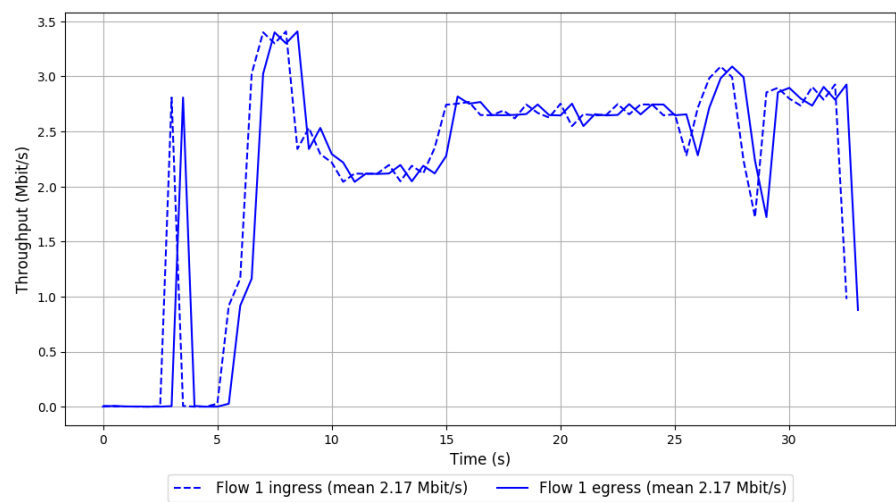
-- Flow 1:

Average throughput: 2.17 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-30 07:55:01

End at: 2018-06-30 07:55:31

Local clock offset: 3.59 ms

Remote clock offset: 2.375 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.07%

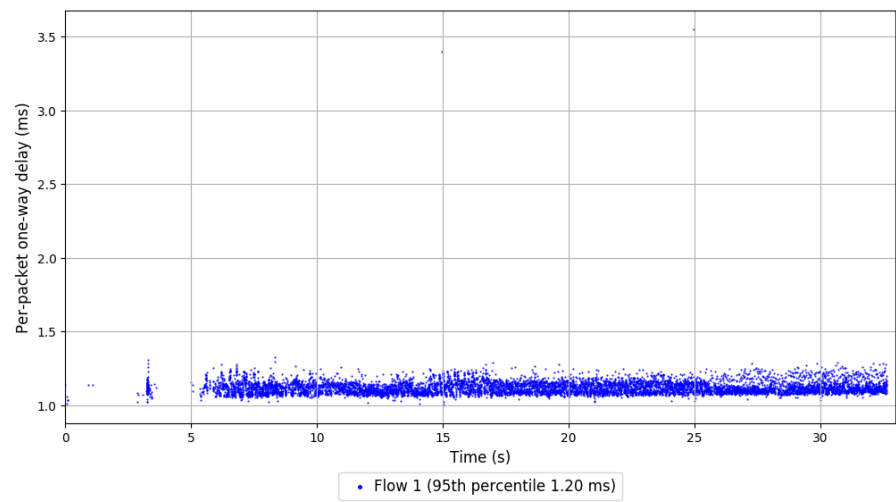
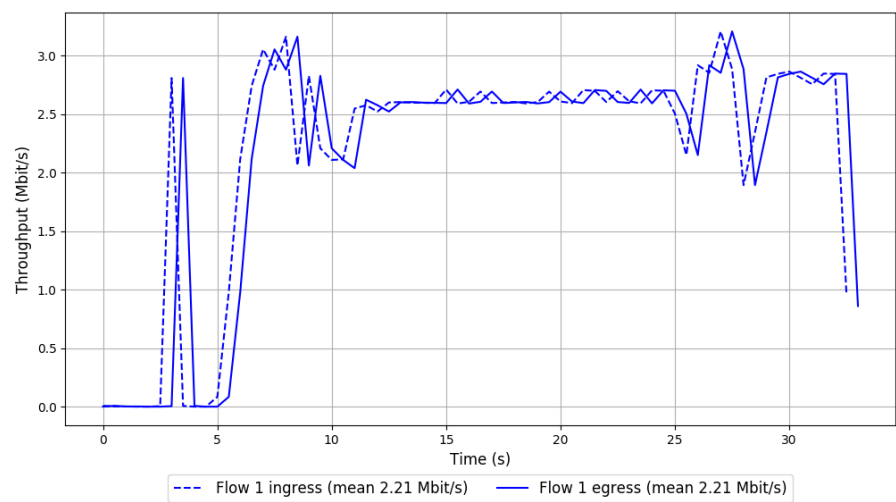
-- Flow 1:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 1.201 ms

Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link

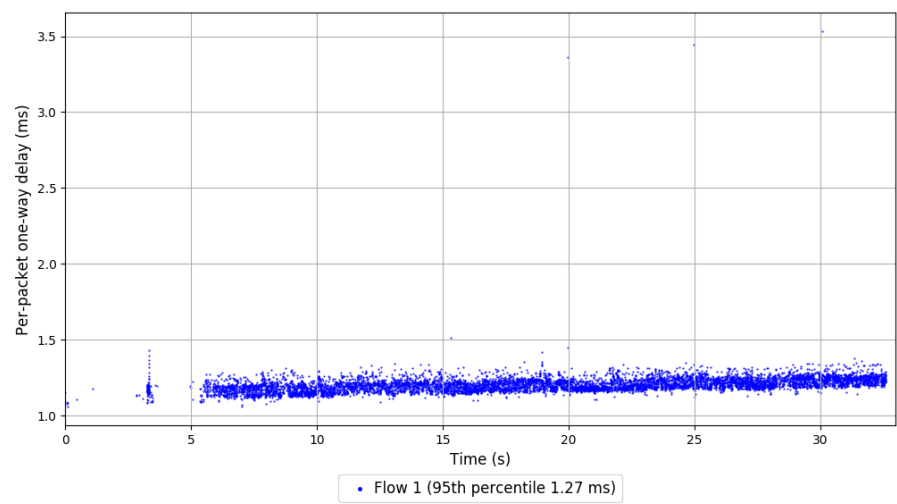
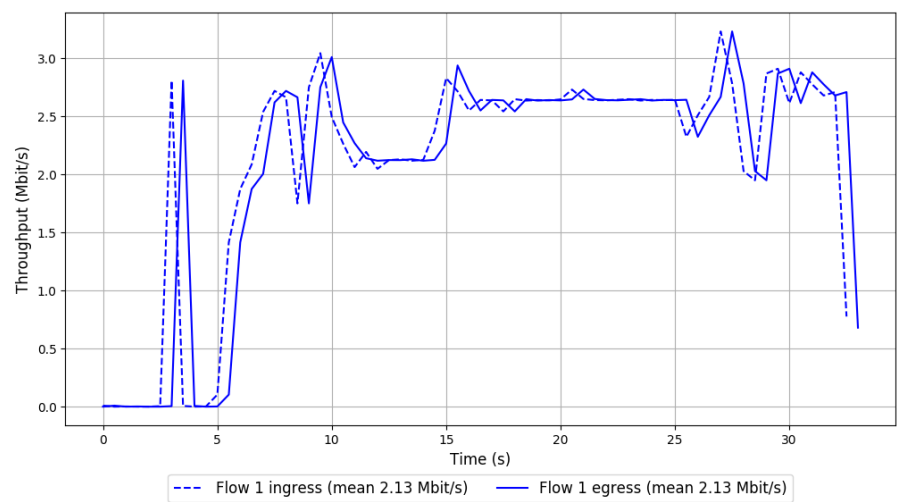


Run 5: Statistics of WebRTC media

Start at: 2018-06-30 08:20:39
End at: 2018-06-30 08:21:10
Local clock offset: 1.923 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2018-06-30 12:40:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-30 08:46:15

End at: 2018-06-30 08:46:45

Local clock offset: -0.737 ms

Remote clock offset: 1.153 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.13 Mbit/s

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

Loss rate: 0.07%

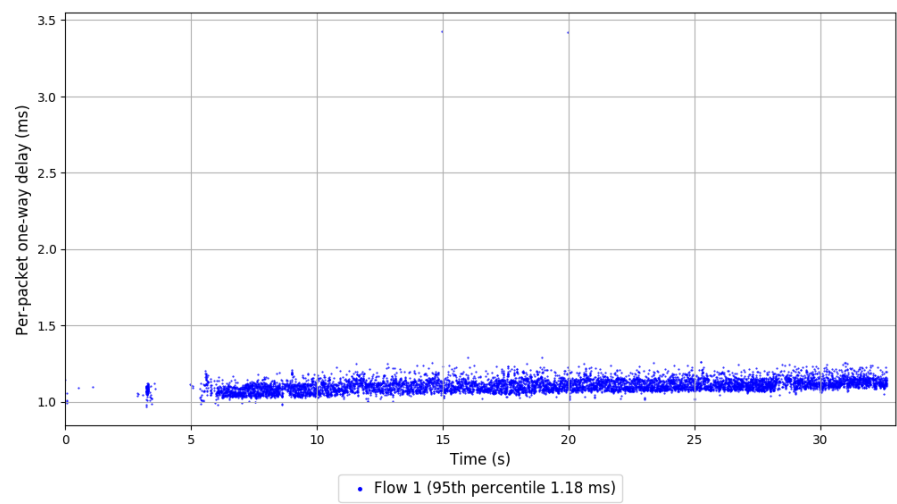
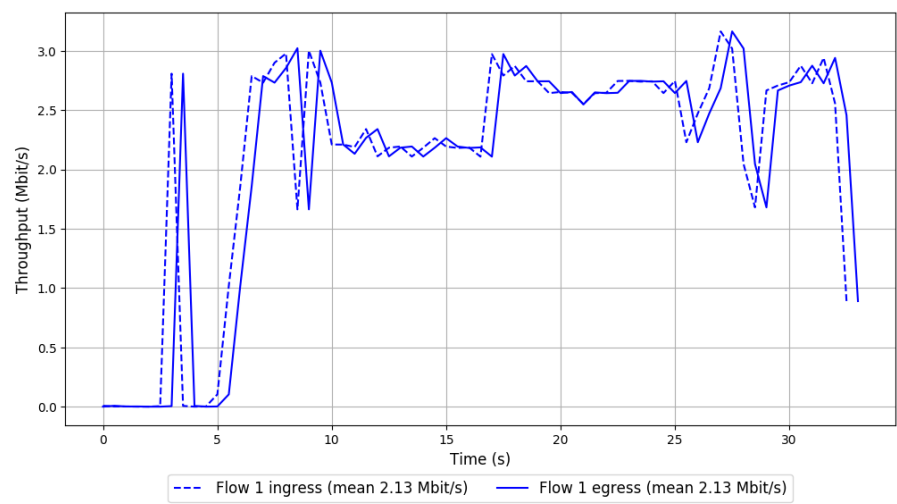
-- Flow 1:

Average throughput: 2.13 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-30 09:11:49

End at: 2018-06-30 09:12:19

Local clock offset: -0.327 ms

Remote clock offset: 3.412 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.07%

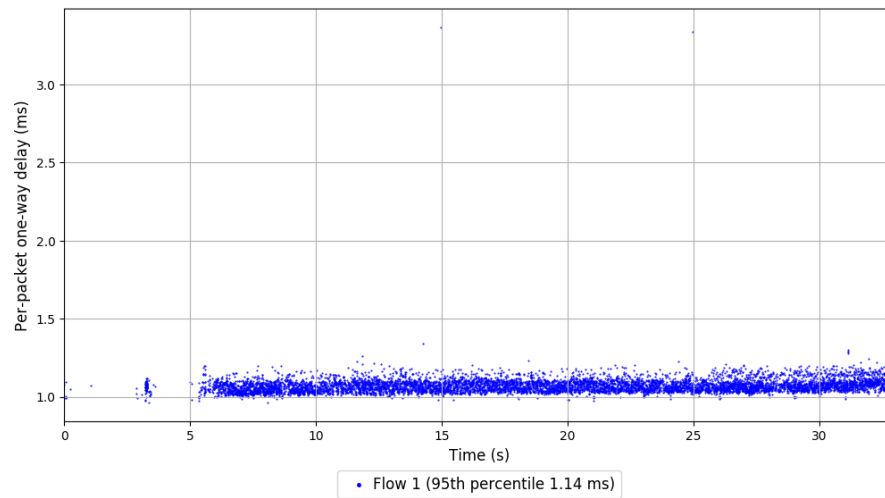
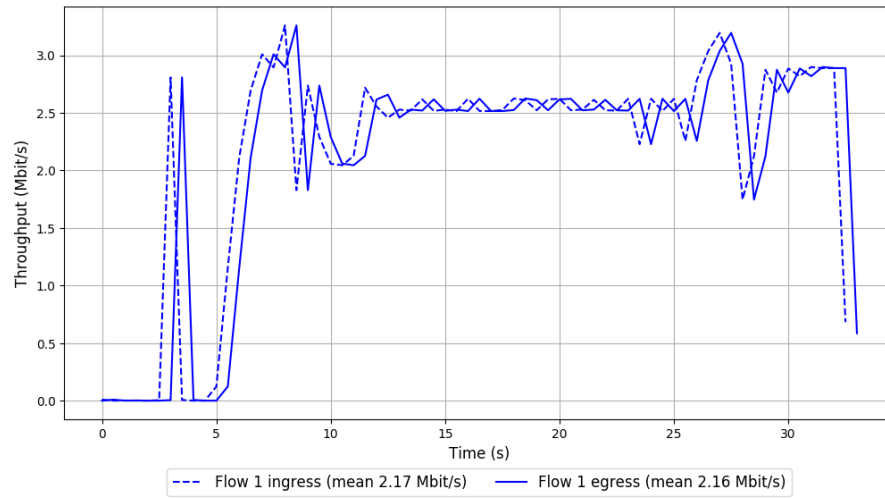
-- Flow 1:

Average throughput: 2.16 Mbit/s

95th percentile per-packet one-way delay: 1.144 ms

Loss rate: 0.07%

Run 7: Report of WebRTC media — Data Link

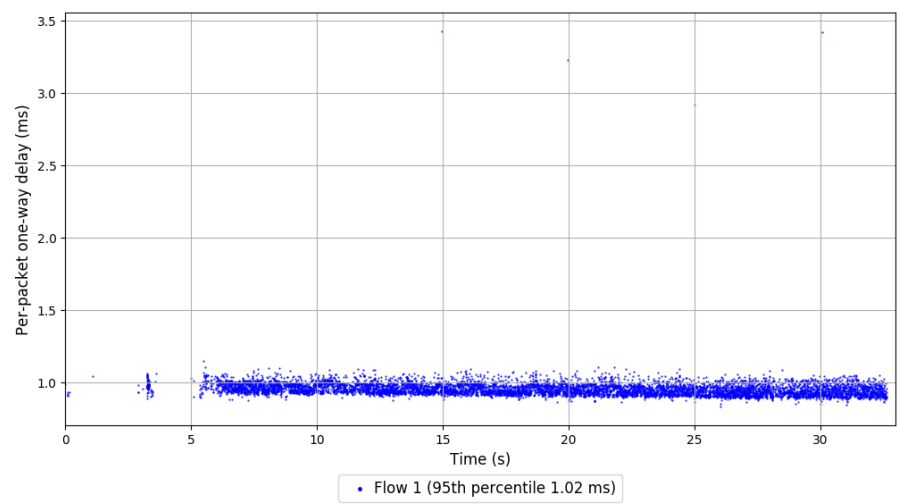
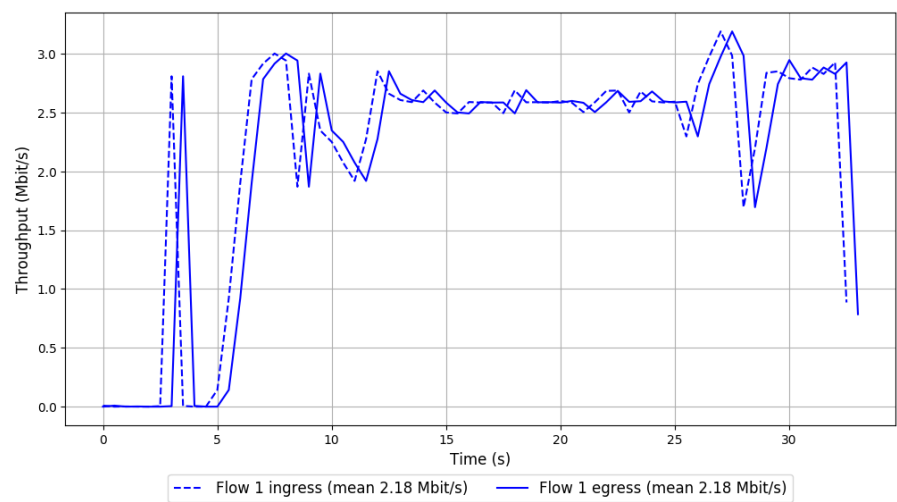


Run 8: Statistics of WebRTC media

Start at: 2018-06-30 09:37:15
End at: 2018-06-30 09:37:45
Local clock offset: 0.302 ms
Remote clock offset: -1.937 ms

Below is generated by plot.py at 2018-06-30 12:40:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.18 Mbit/s
95th percentile per-packet one-way delay: 1.020 ms
Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-30 10:02:45

End at: 2018-06-30 10:03:15

Local clock offset: 3.67 ms

Remote clock offset: 2.156 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.07%

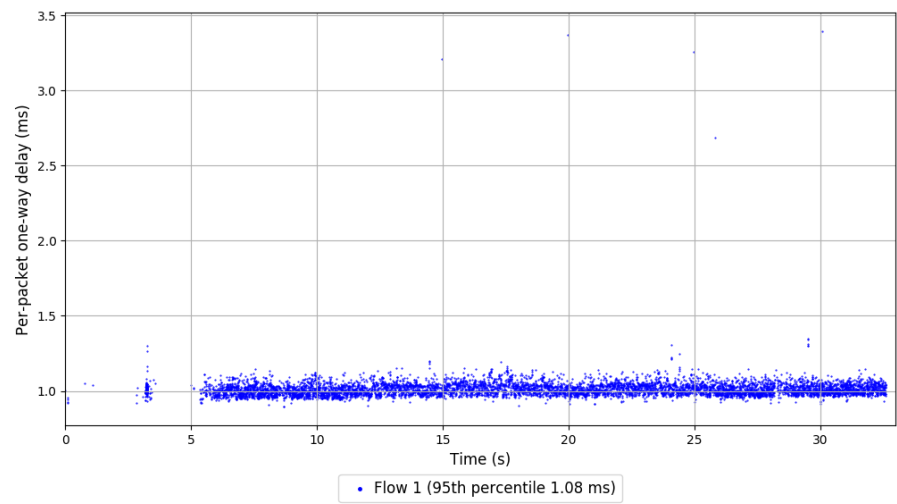
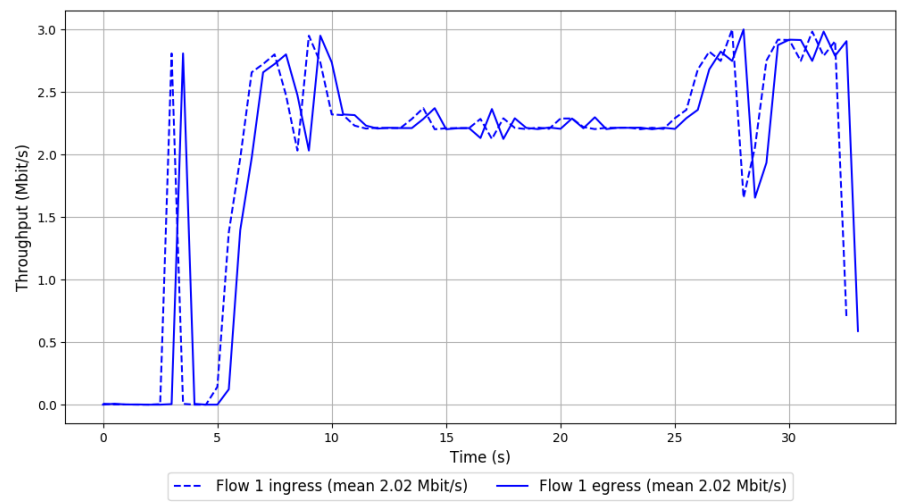
-- Flow 1:

Average throughput: 2.02 Mbit/s

95th percentile per-packet one-way delay: 1.081 ms

Loss rate: 0.07%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-30 10:28:14

End at: 2018-06-30 10:28:45

Local clock offset: 5.006 ms

Remote clock offset: 1.084 ms

Below is generated by plot.py at 2018-06-30 12:40:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.17 Mbit/s

95th percentile per-packet one-way delay: 0.941 ms

Loss rate: 0.07%

Run 10: Report of WebRTC media — Data Link

