

Pantheon Report

Generated at 2018-07-18 07:33:10 (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.

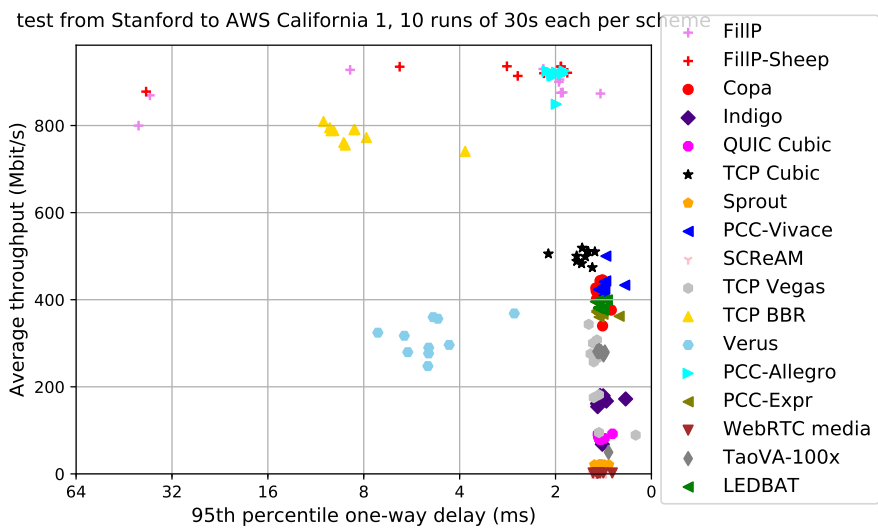
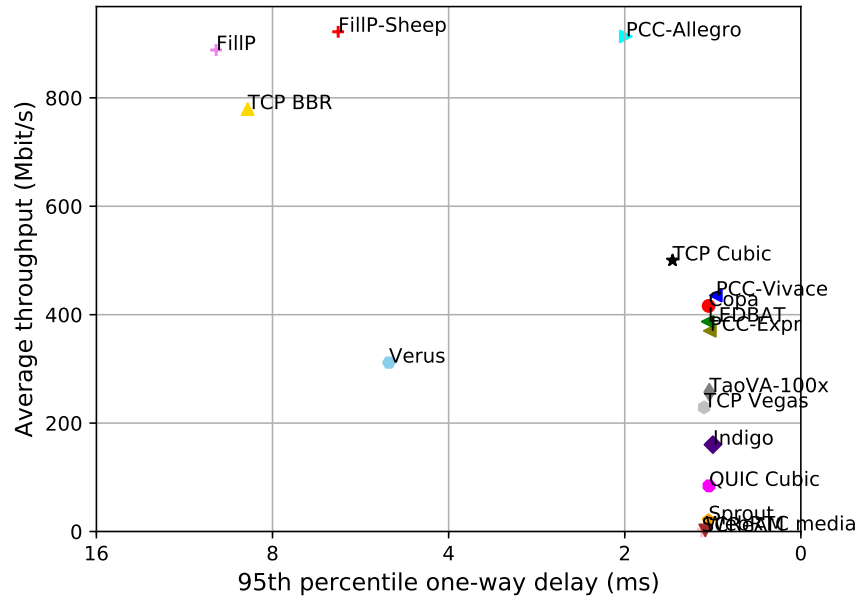
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ f7befc2d8410f41949e0ad8143a9aab40bab7edb
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
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-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Stanford to AWS California 1, 10 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	779.18	8.82	0.08
Copa	10	416.10	1.05	0.07
TCP Cubic	10	500.04	1.46	0.06
FillP	10	888.17	9.99	0.80
FillP-Sheep	10	921.84	6.18	0.48
Indigo	10	160.29	1.00	0.06
LEDBAT	10	387.20	1.06	0.07
PCC-Allegro	10	913.32	1.99	0.07
PCC-Expr	10	370.24	1.03	0.06
QUIC Cubic	10	84.21	1.04	0.07
SCReAM	10	0.22	1.13	0.12
Sprout	10	20.88	1.05	0.06
TaoVA-100x	10	257.02	1.04	0.06
TCP Vegas	10	229.03	1.10	0.04
Verus	10	311.59	5.06	0.05
PCC-Vivace	10	435.26	0.97	0.06
WebRTC media	10	2.15	1.09	0.09

Run 1: Statistics of TCP BBR

Start at: 2018-07-18 01:10:01

End at: 2018-07-18 01:10:31

Local clock offset: 1.096 ms

Remote clock offset: 0.699 ms

Below is generated by plot.py at 2018-07-18 05:49:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 795.15 Mbit/s

95th percentile per-packet one-way delay: 10.233 ms

Loss rate: 0.10%

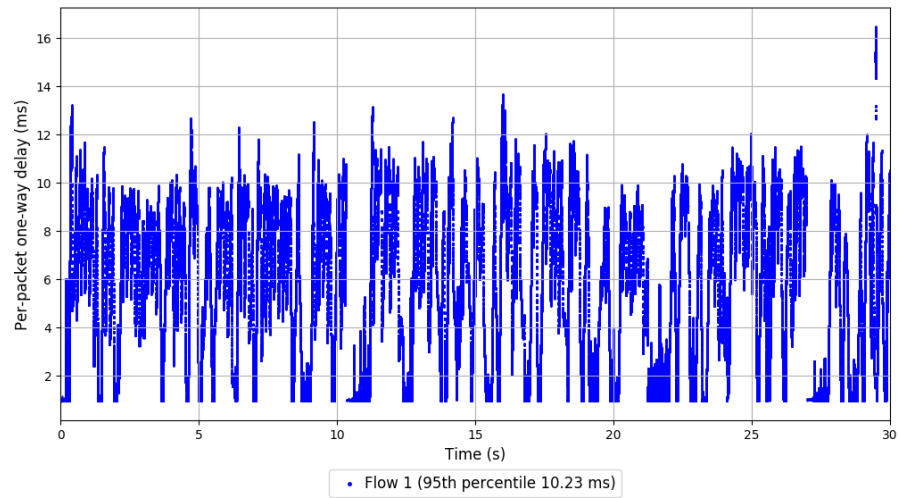
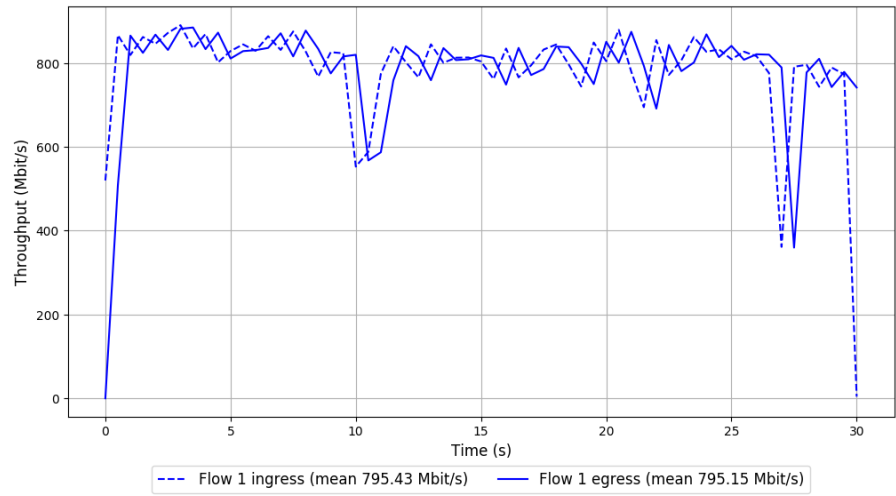
-- Flow 1:

Average throughput: 795.15 Mbit/s

95th percentile per-packet one-way delay: 10.233 ms

Loss rate: 0.10%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-18 01:35:56

End at: 2018-07-18 01:36:26

Local clock offset: 1.067 ms

Remote clock offset: 1.591 ms

Below is generated by plot.py at 2018-07-18 05:49:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.99 Mbit/s

95th percentile per-packet one-way delay: 9.244 ms

Loss rate: 0.08%

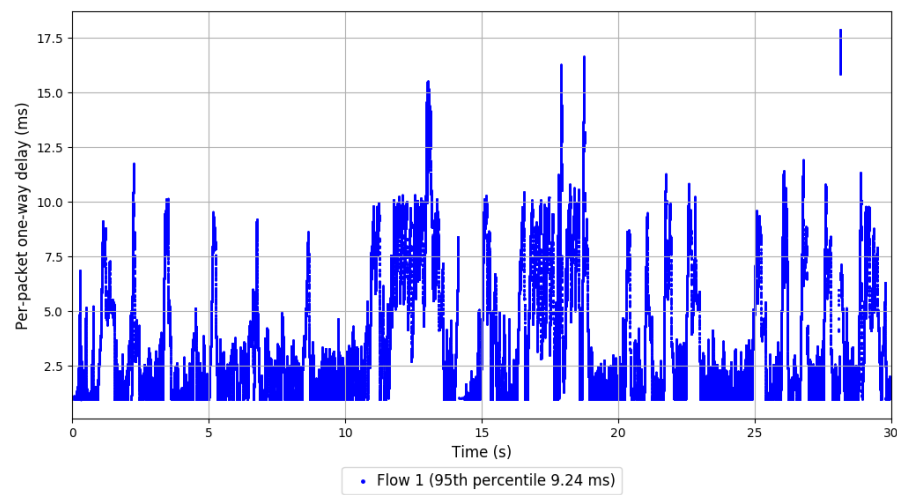
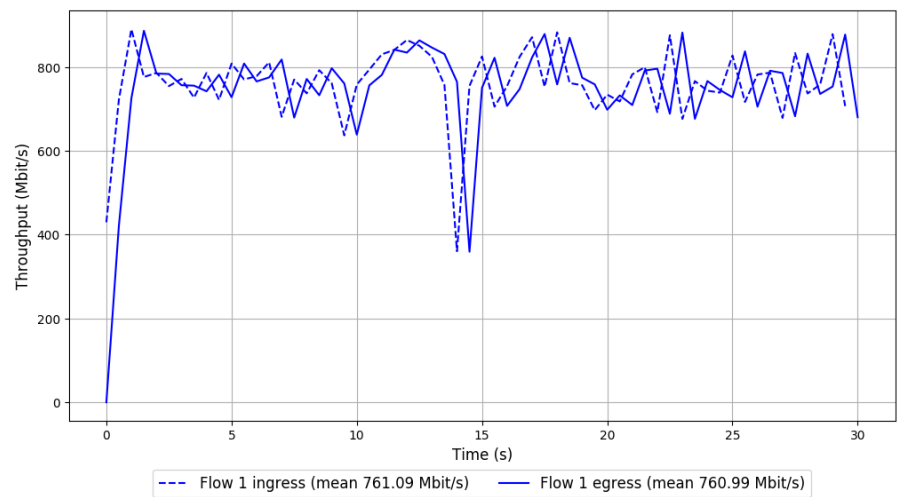
-- Flow 1:

Average throughput: 760.99 Mbit/s

95th percentile per-packet one-way delay: 9.244 ms

Loss rate: 0.08%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-18 02:01:54

End at: 2018-07-18 02:02:24

Local clock offset: 0.349 ms

Remote clock offset: 2.324 ms

Below is generated by plot.py at 2018-07-18 05:49:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.20 Mbit/s

95th percentile per-packet one-way delay: 10.134 ms

Loss rate: 0.07%

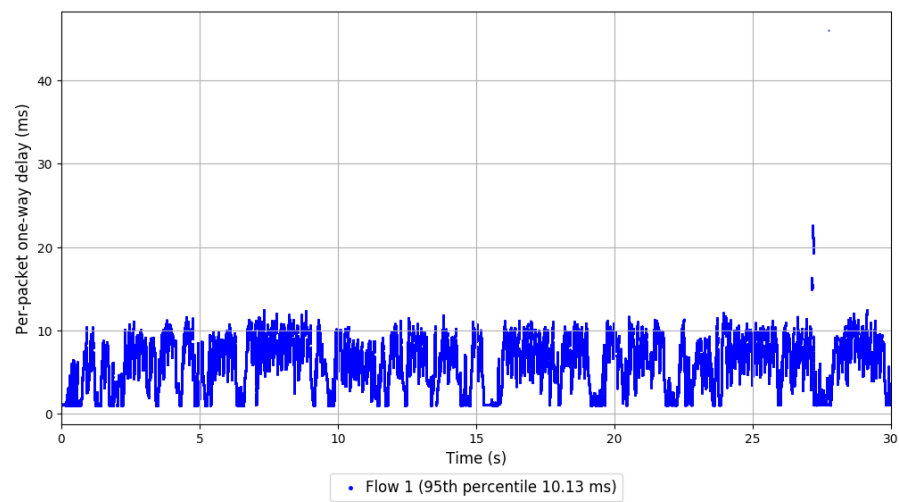
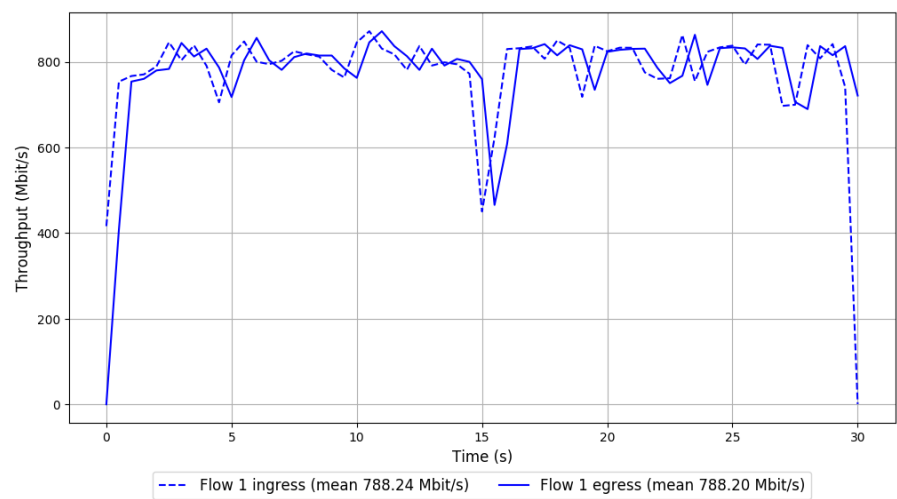
-- Flow 1:

Average throughput: 788.20 Mbit/s

95th percentile per-packet one-way delay: 10.134 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-18 02:27:45

End at: 2018-07-18 02:28:15

Local clock offset: 1.191 ms

Remote clock offset: 2.797 ms

Below is generated by plot.py at 2018-07-18 05:49:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 788.64 Mbit/s

95th percentile per-packet one-way delay: 9.941 ms

Loss rate: 0.10%

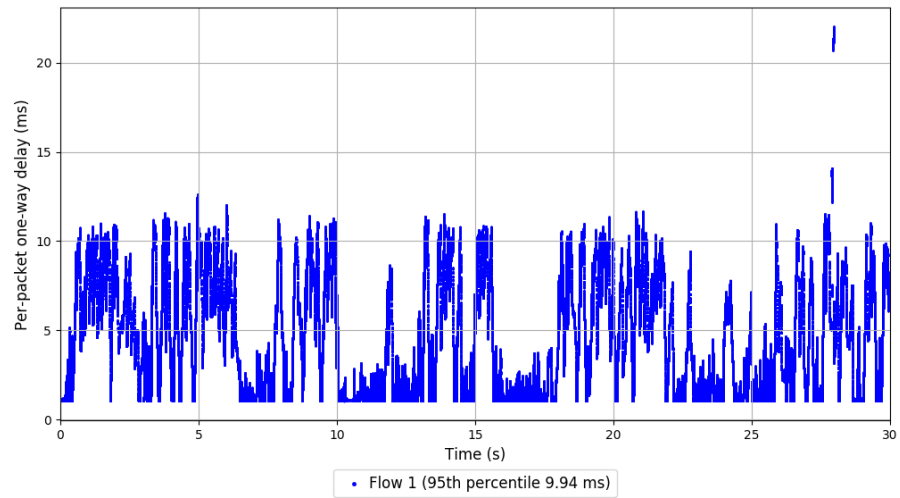
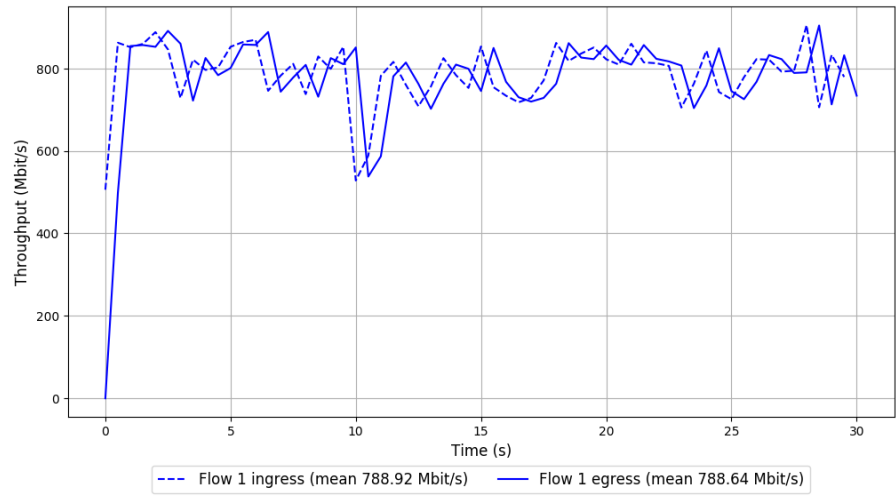
-- Flow 1:

Average throughput: 788.64 Mbit/s

95th percentile per-packet one-way delay: 9.941 ms

Loss rate: 0.10%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-18 02:53:44

End at: 2018-07-18 02:54:14

Local clock offset: 0.97 ms

Remote clock offset: 2.787 ms

Below is generated by plot.py at 2018-07-18 05:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.45 Mbit/s

95th percentile per-packet one-way delay: 8.583 ms

Loss rate: 0.08%

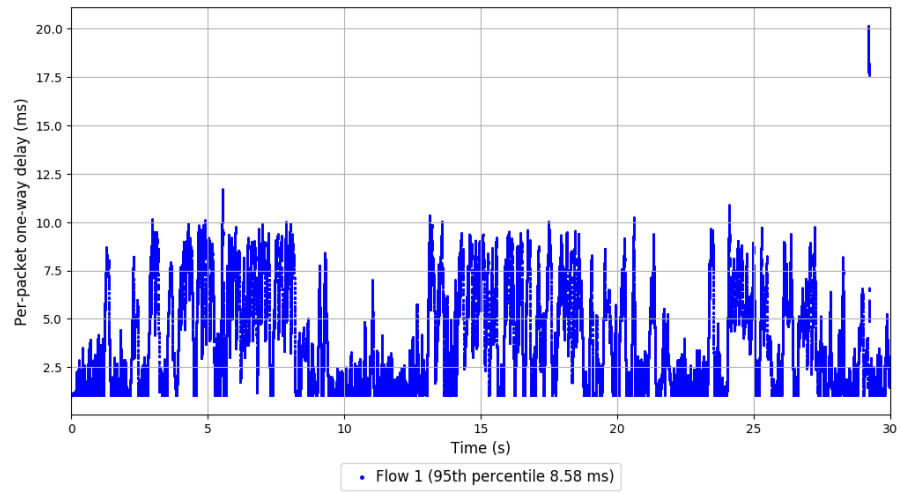
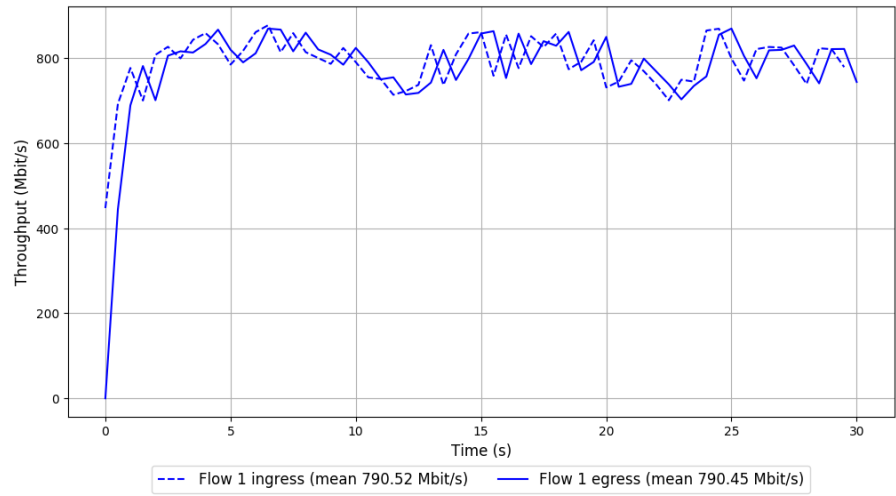
-- Flow 1:

Average throughput: 790.45 Mbit/s

95th percentile per-packet one-way delay: 8.583 ms

Loss rate: 0.08%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-07-18 03:19:33

End at: 2018-07-18 03:20:03

Local clock offset: 0.502 ms

Remote clock offset: 2.62 ms

Below is generated by plot.py at 2018-07-18 05:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 740.77 Mbit/s

95th percentile per-packet one-way delay: 3.844 ms

Loss rate: 0.08%

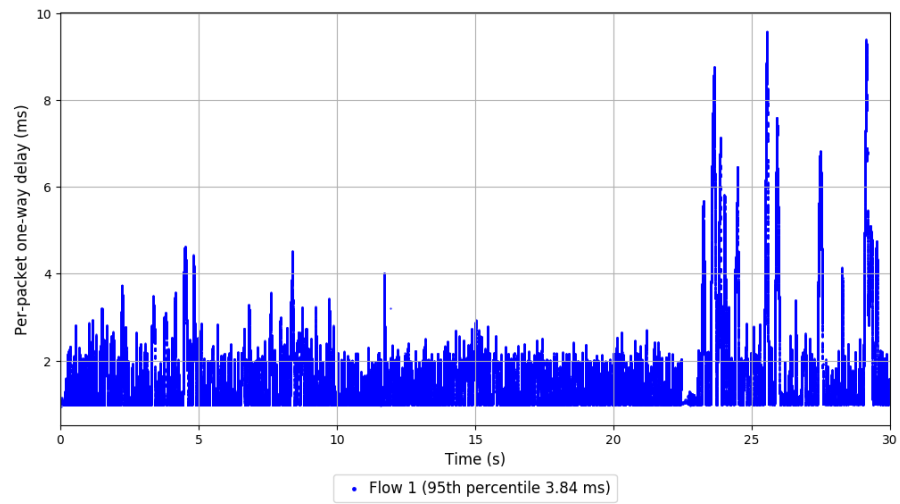
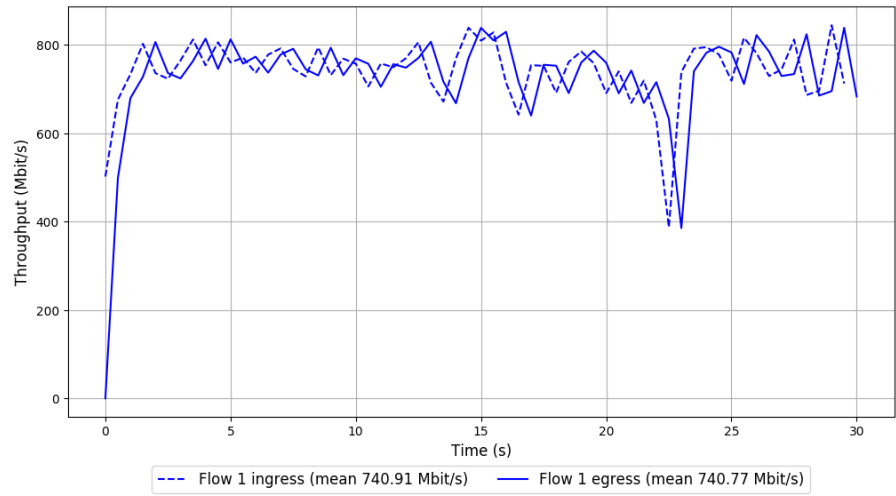
-- Flow 1:

Average throughput: 740.77 Mbit/s

95th percentile per-packet one-way delay: 3.844 ms

Loss rate: 0.08%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-07-18 03:45:26

End at: 2018-07-18 03:45:56

Local clock offset: 0.054 ms

Remote clock offset: 2.674 ms

Below is generated by plot.py at 2018-07-18 05:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.88 Mbit/s

95th percentile per-packet one-way delay: 8.535 ms

Loss rate: 0.10%

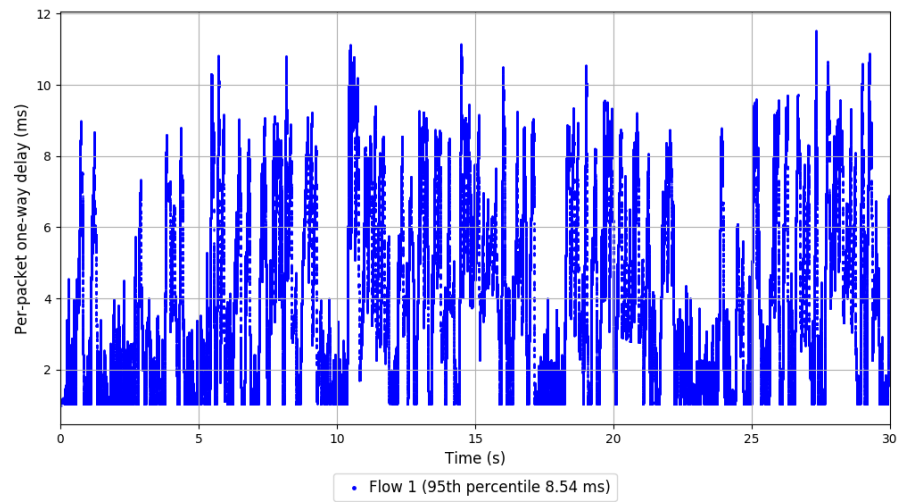
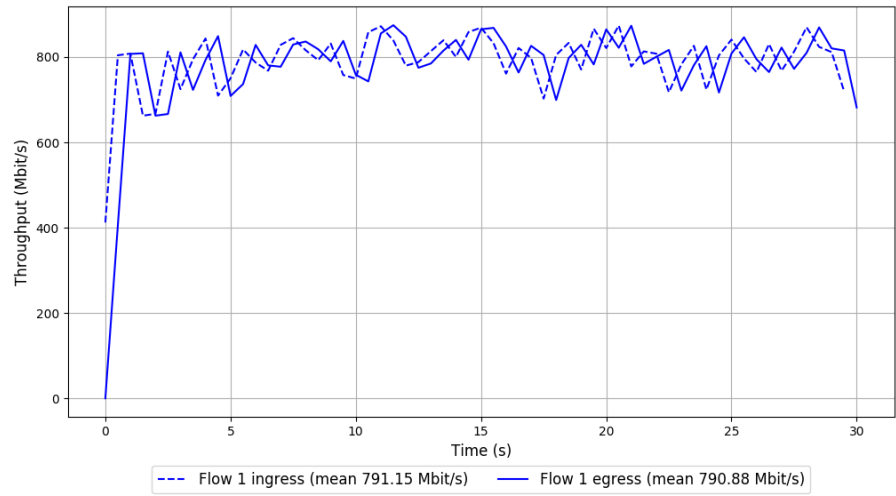
-- Flow 1:

Average throughput: 790.88 Mbit/s

95th percentile per-packet one-way delay: 8.535 ms

Loss rate: 0.10%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-18 04:11:06

End at: 2018-07-18 04:11:36

Local clock offset: 0.298 ms

Remote clock offset: 2.709 ms

Below is generated by plot.py at 2018-07-18 05:49:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 772.39 Mbit/s

95th percentile per-packet one-way delay: 7.848 ms

Loss rate: 0.08%

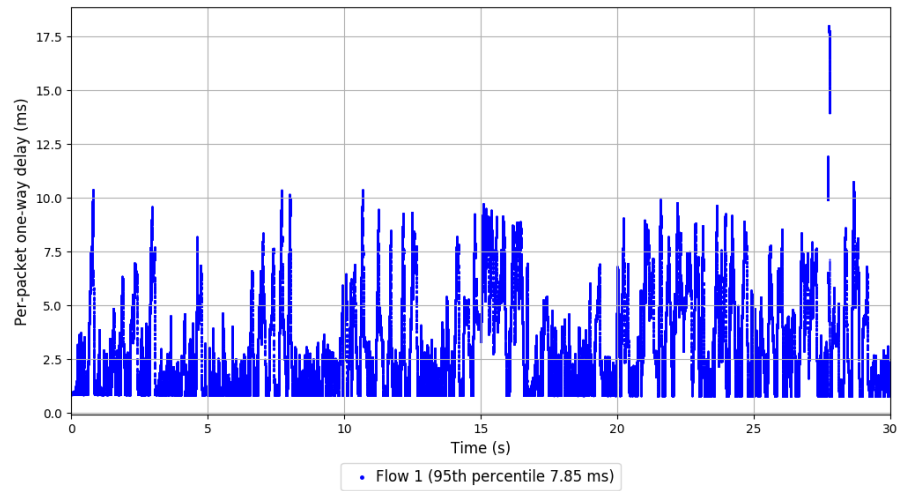
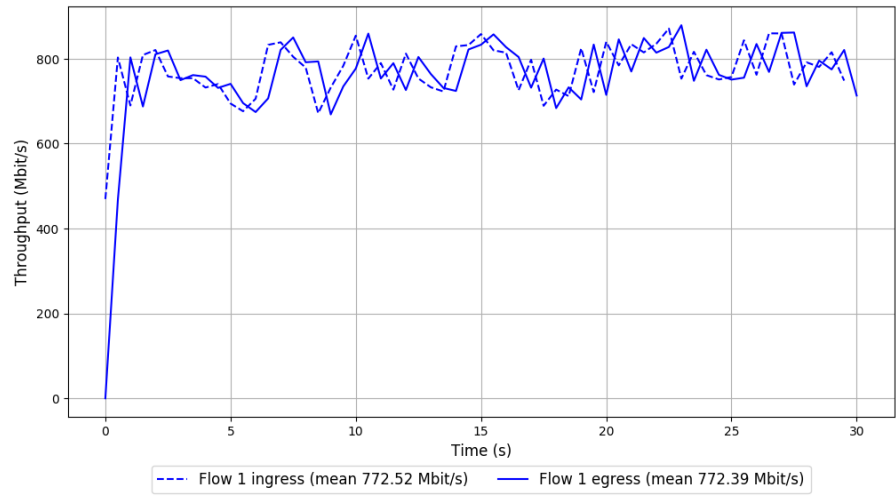
-- Flow 1:

Average throughput: 772.39 Mbit/s

95th percentile per-packet one-way delay: 7.848 ms

Loss rate: 0.08%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-18 04:37:07

End at: 2018-07-18 04:37:37

Local clock offset: 1.354 ms

Remote clock offset: 2.366 ms

Below is generated by plot.py at 2018-07-18 05:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 809.24 Mbit/s

95th percentile per-packet one-way delay: 10.699 ms

Loss rate: 0.07%

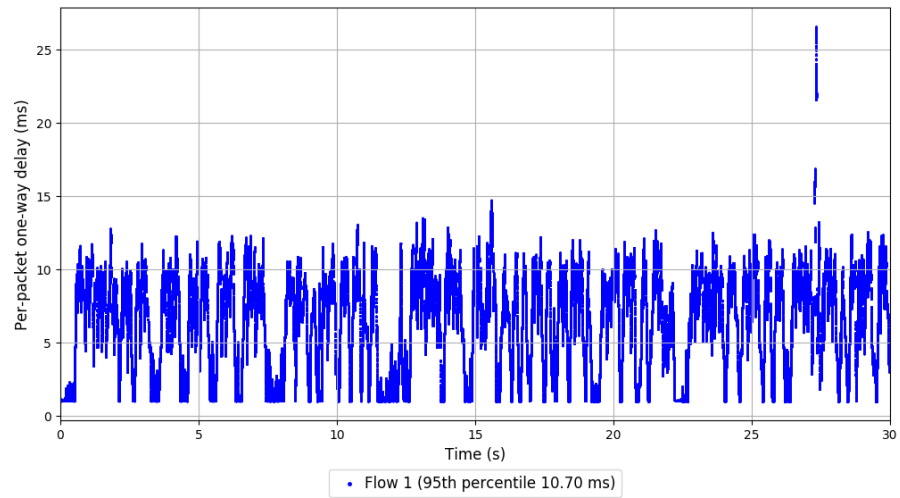
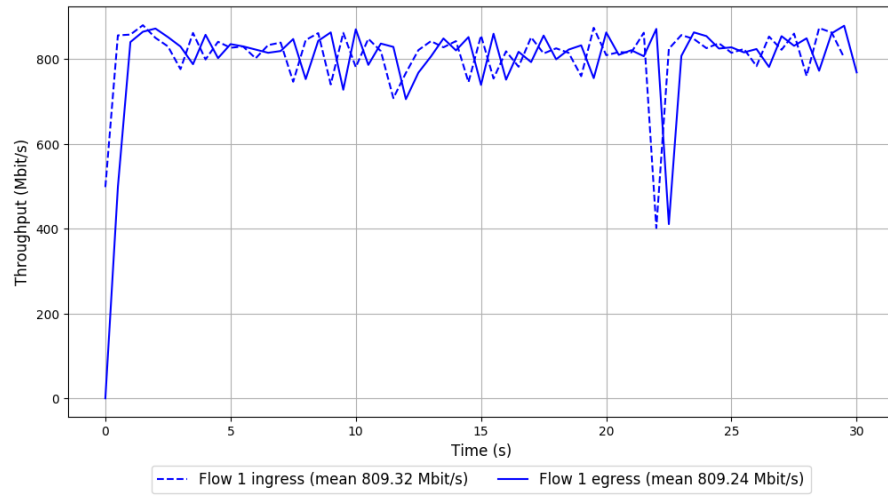
-- Flow 1:

Average throughput: 809.24 Mbit/s

95th percentile per-packet one-way delay: 10.699 ms

Loss rate: 0.07%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-18 05:03:07

End at: 2018-07-18 05:03:37

Local clock offset: 0.826 ms

Remote clock offset: 1.976 ms

Below is generated by plot.py at 2018-07-18 05:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 755.14 Mbit/s

95th percentile per-packet one-way delay: 9.143 ms

Loss rate: 0.08%

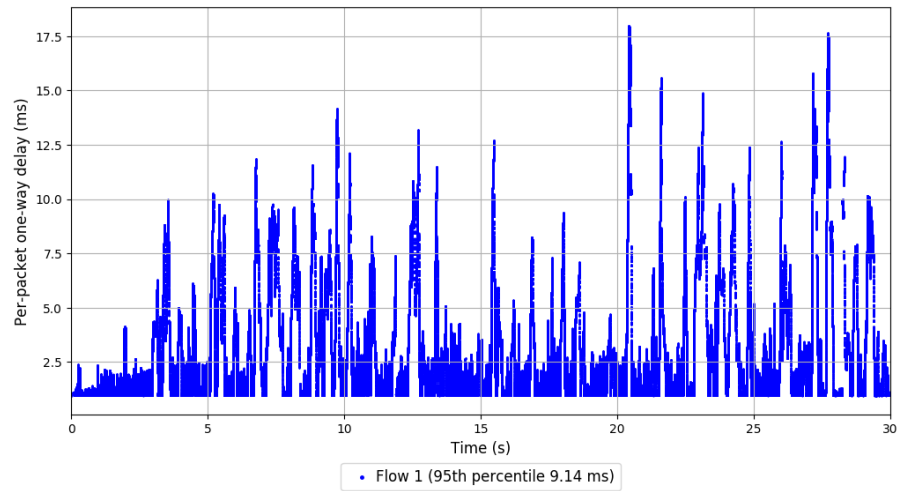
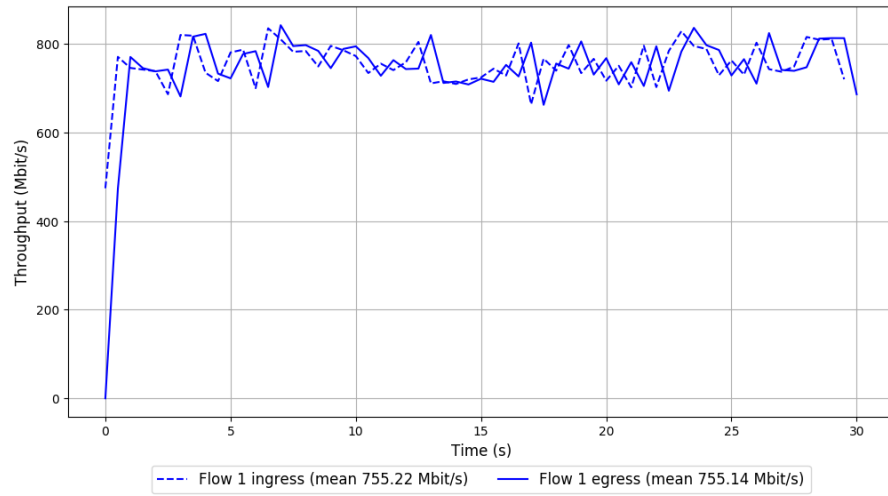
-- Flow 1:

Average throughput: 755.14 Mbit/s

95th percentile per-packet one-way delay: 9.143 ms

Loss rate: 0.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-18 01:11:44

End at: 2018-07-18 01:12:14

Local clock offset: 1.159 ms

Remote clock offset: 0.746 ms

Below is generated by plot.py at 2018-07-18 05:58:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.59 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.06%

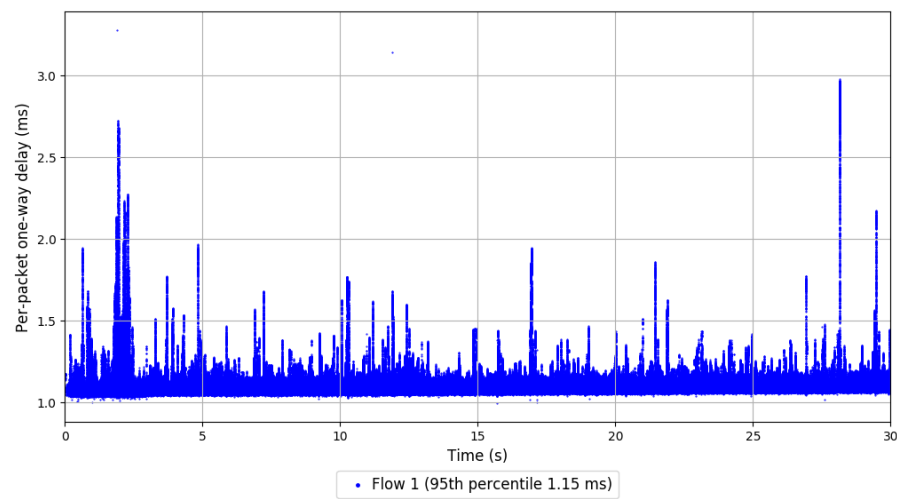
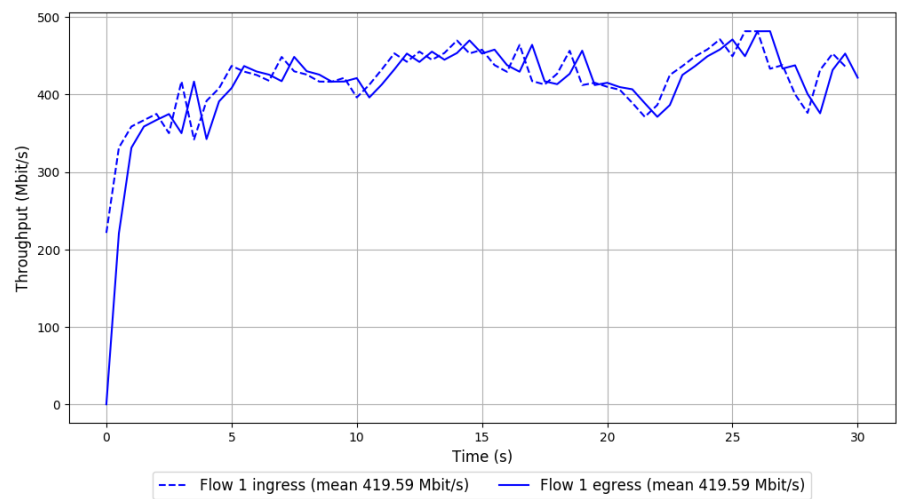
-- Flow 1:

Average throughput: 419.59 Mbit/s

95th percentile per-packet one-way delay: 1.151 ms

Loss rate: 0.06%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-18 01:37:39

End at: 2018-07-18 01:38:09

Local clock offset: 1.146 ms

Remote clock offset: 1.725 ms

Below is generated by plot.py at 2018-07-18 05:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.42 Mbit/s

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

Loss rate: 0.06%

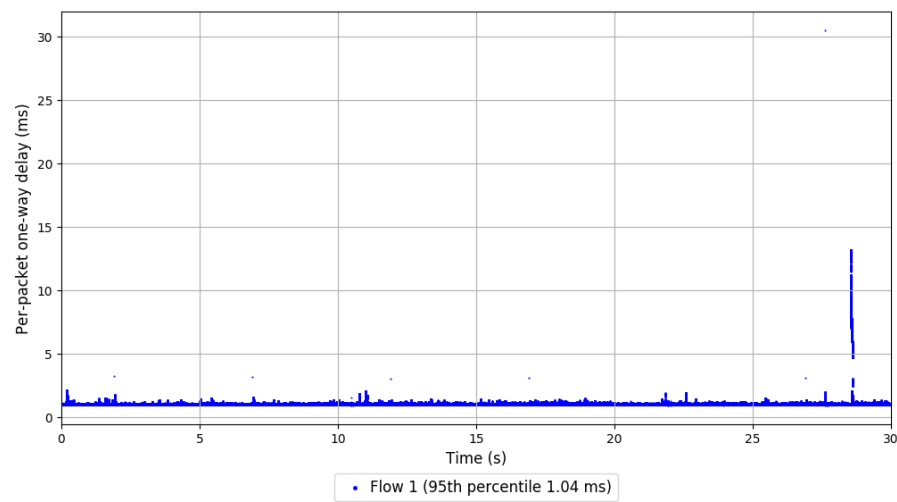
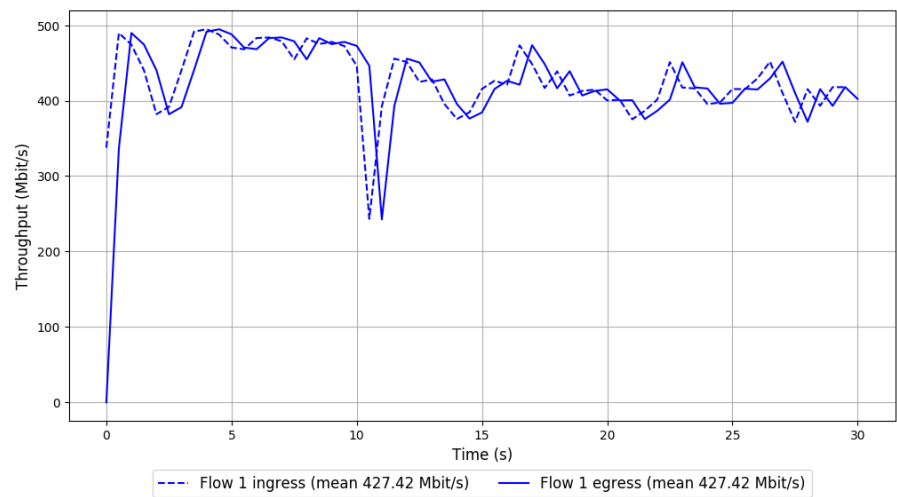
-- Flow 1:

Average throughput: 427.42 Mbit/s

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

Loss rate: 0.06%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-18 02:03:37

End at: 2018-07-18 02:04:07

Local clock offset: 0.337 ms

Remote clock offset: 2.461 ms

Below is generated by plot.py at 2018-07-18 05:58:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 339.93 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.06%

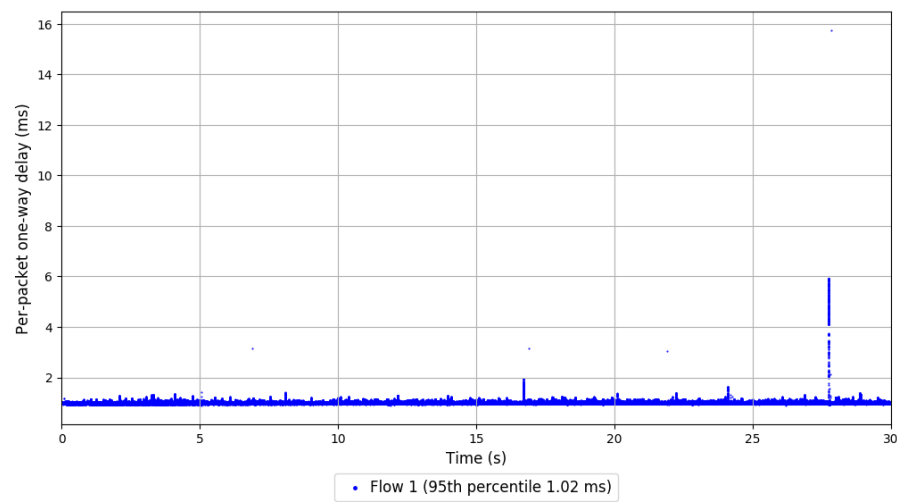
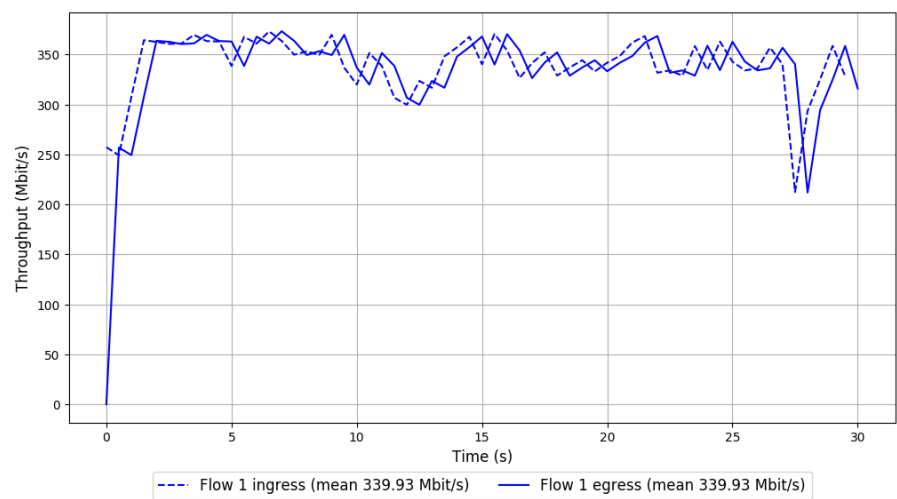
-- Flow 1:

Average throughput: 339.93 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.06%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-07-18 02:29:28

End at: 2018-07-18 02:29:58

Local clock offset: 1.193 ms

Remote clock offset: 2.818 ms

Below is generated by plot.py at 2018-07-18 05:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.87 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.06%

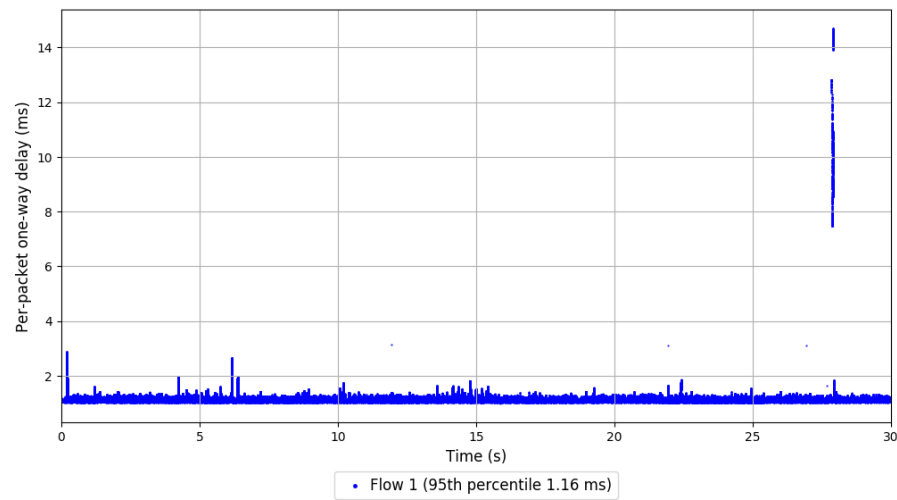
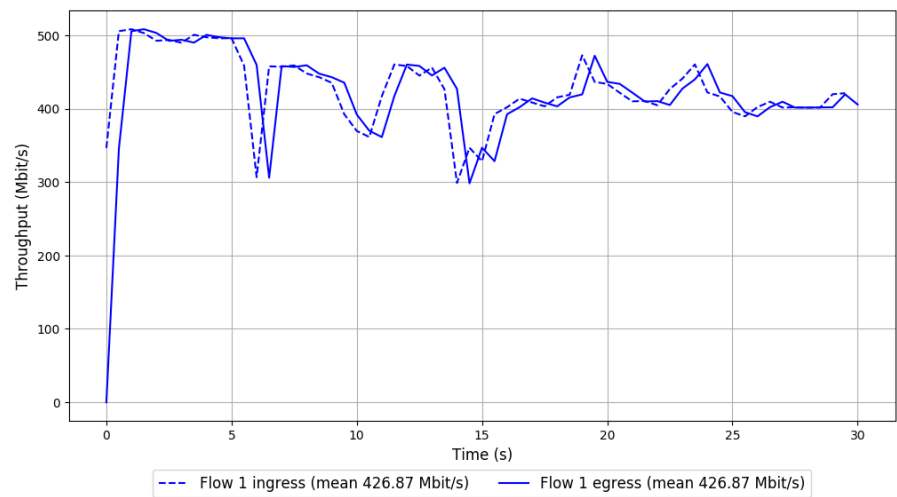
-- Flow 1:

Average throughput: 426.87 Mbit/s

95th percentile per-packet one-way delay: 1.160 ms

Loss rate: 0.06%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-07-18 02:55:27

End at: 2018-07-18 02:55:57

Local clock offset: 0.959 ms

Remote clock offset: 2.751 ms

Below is generated by plot.py at 2018-07-18 05:58:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.29 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.06%

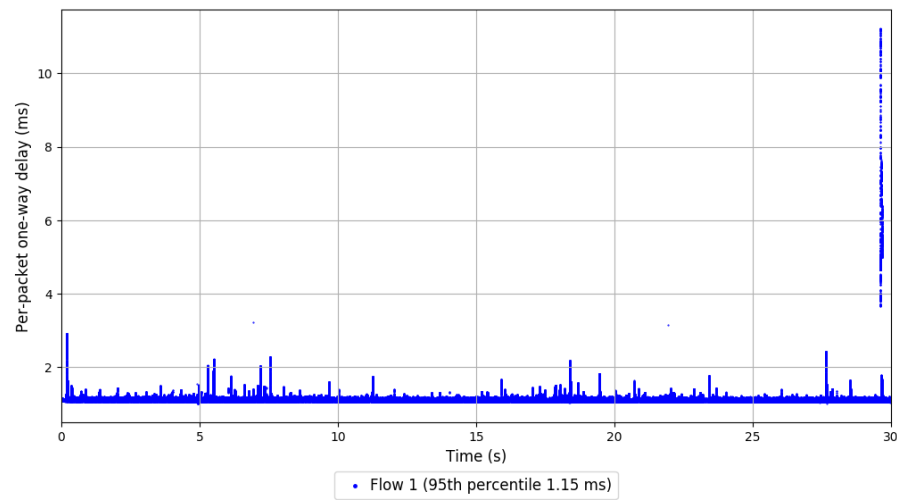
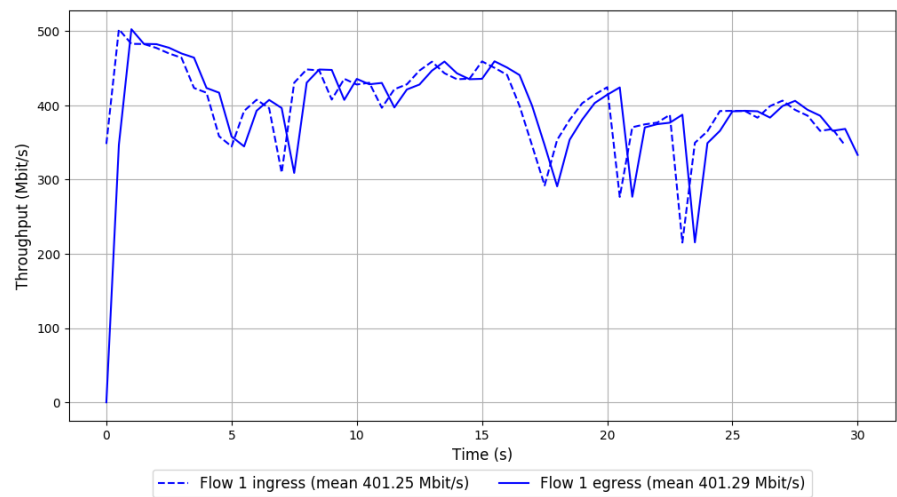
-- Flow 1:

Average throughput: 401.29 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-18 03:21:16

End at: 2018-07-18 03:21:46

Local clock offset: 0.465 ms

Remote clock offset: 2.658 ms

Below is generated by plot.py at 2018-07-18 05:58:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.78 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.07%

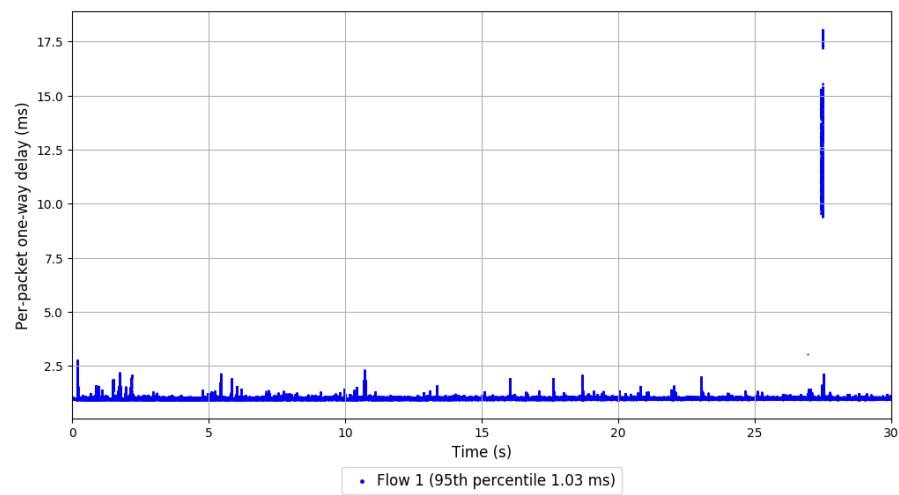
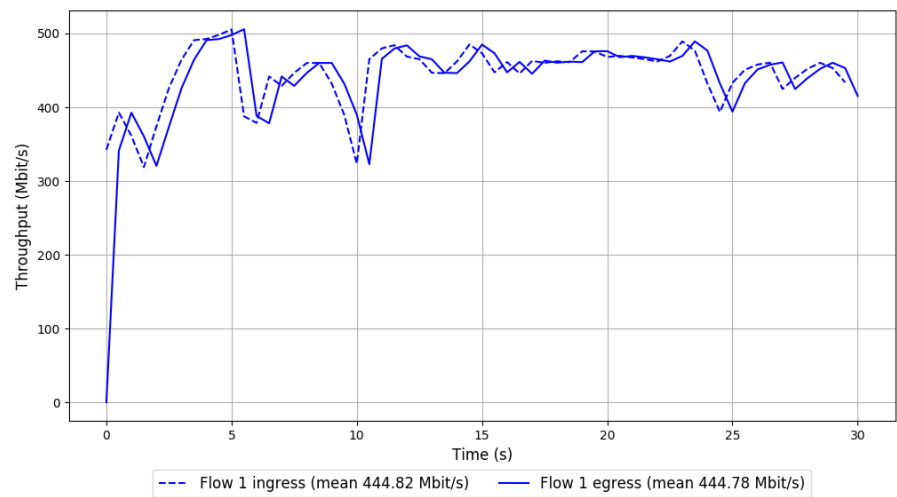
-- Flow 1:

Average throughput: 444.78 Mbit/s

95th percentile per-packet one-way delay: 1.031 ms

Loss rate: 0.07%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-07-18 03:47:09

End at: 2018-07-18 03:47:39

Local clock offset: 0.032 ms

Remote clock offset: 2.723 ms

Below is generated by plot.py at 2018-07-18 06:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.63 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.07%

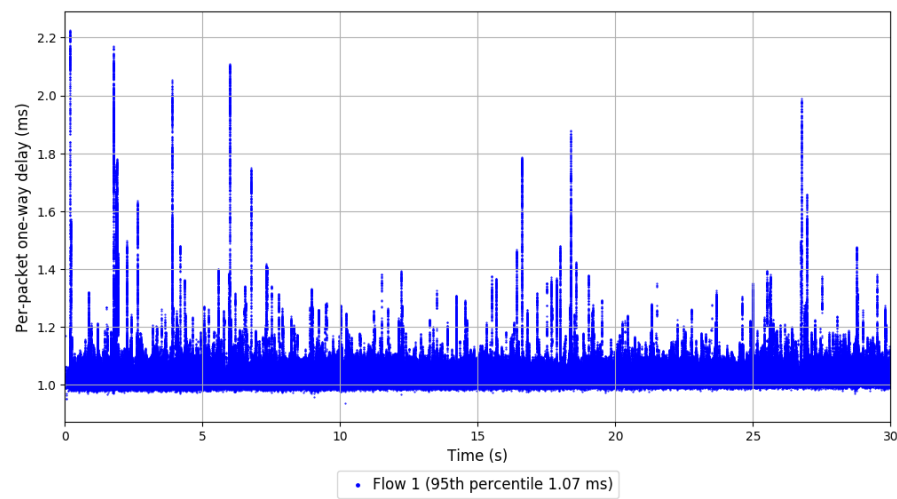
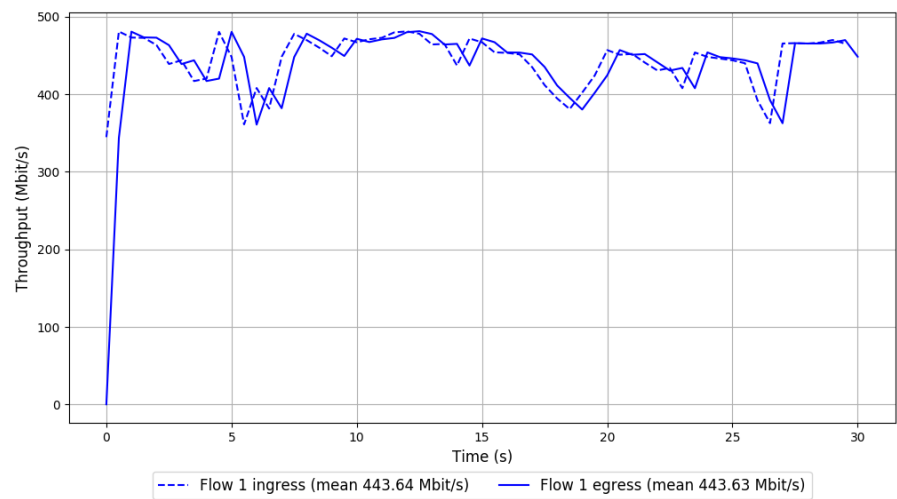
-- Flow 1:

Average throughput: 443.63 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.07%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-18 04:12:49

End at: 2018-07-18 04:13:19

Local clock offset: 0.394 ms

Remote clock offset: 2.655 ms

Below is generated by plot.py at 2018-07-18 06:05:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.25 Mbit/s

95th percentile per-packet one-way delay: 0.837 ms

Loss rate: 0.07%

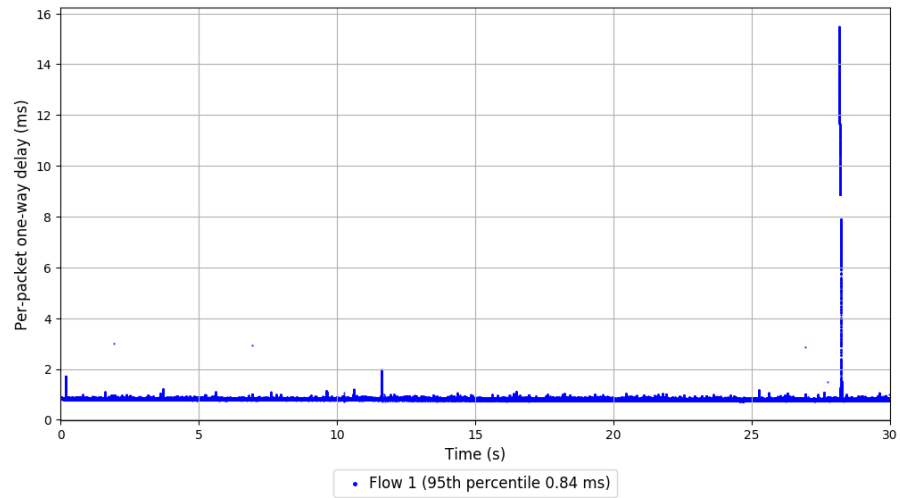
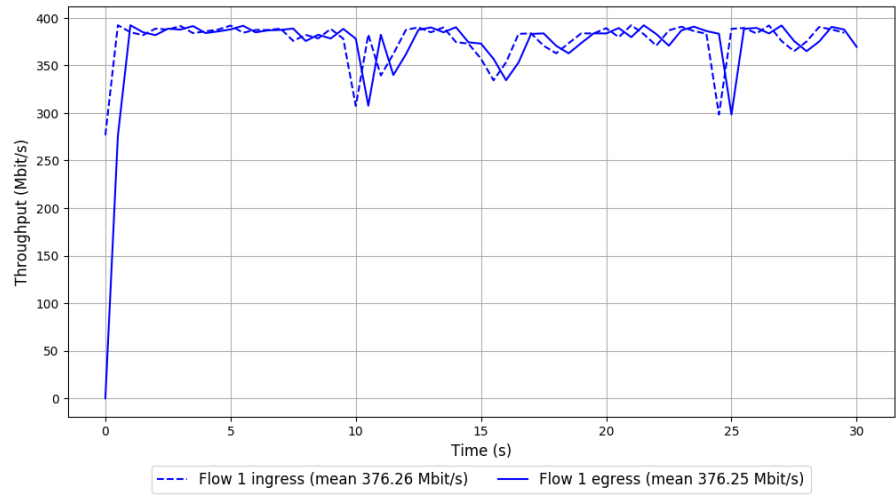
-- Flow 1:

Average throughput: 376.25 Mbit/s

95th percentile per-packet one-way delay: 0.837 ms

Loss rate: 0.07%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-18 04:38:50

End at: 2018-07-18 04:39:20

Local clock offset: 1.294 ms

Remote clock offset: 2.425 ms

Below is generated by plot.py at 2018-07-18 06:06:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.34 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.07%

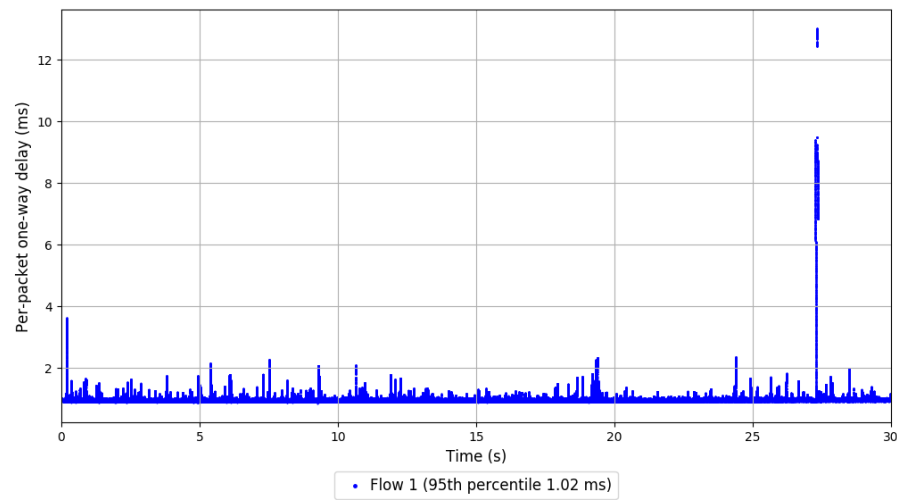
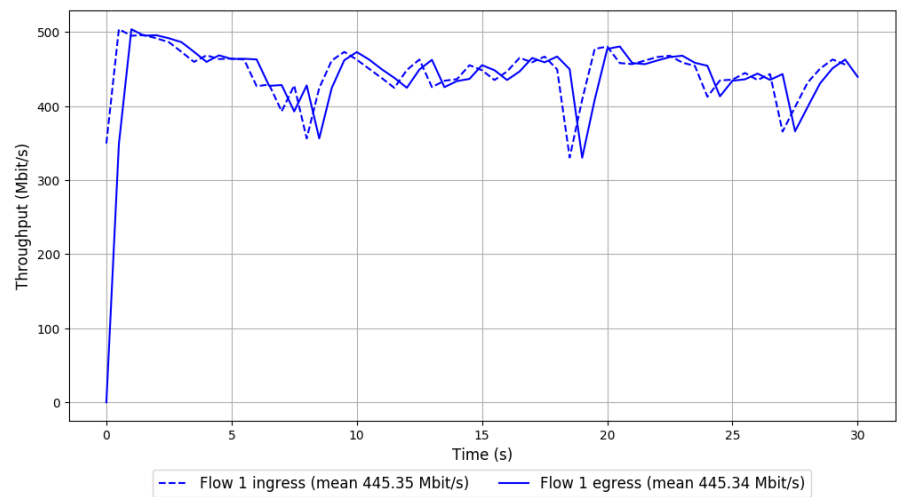
-- Flow 1:

Average throughput: 445.34 Mbit/s

95th percentile per-packet one-way delay: 1.019 ms

Loss rate: 0.07%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-18 05:04:50

End at: 2018-07-18 05:05:20

Local clock offset: 0.858 ms

Remote clock offset: 2.012 ms

Below is generated by plot.py at 2018-07-18 06:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.92 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.07%

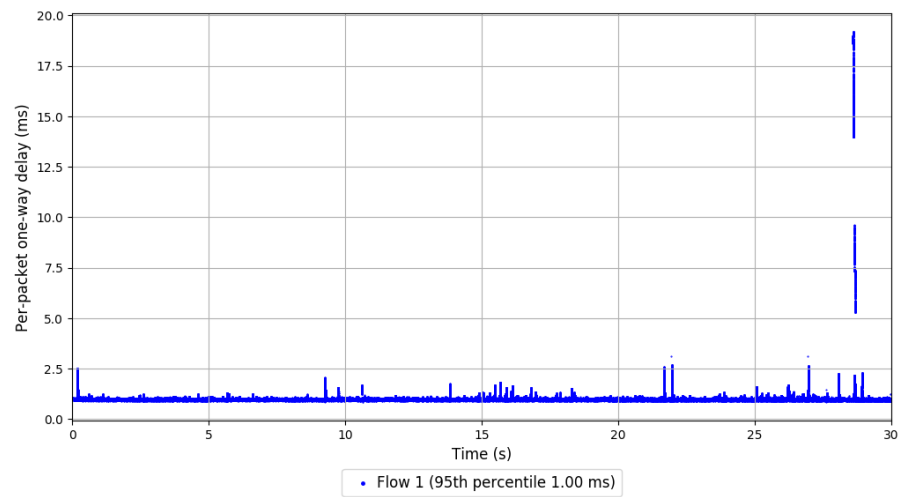
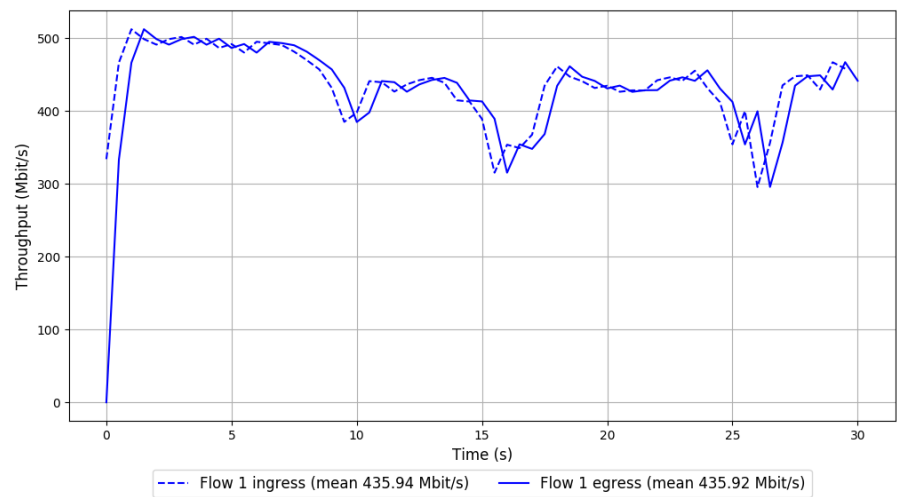
-- Flow 1:

Average throughput: 435.92 Mbit/s

95th percentile per-packet one-way delay: 0.998 ms

Loss rate: 0.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-18 01:14:59

End at: 2018-07-18 01:15:29

Local clock offset: 1.141 ms

Remote clock offset: 0.851 ms

Below is generated by plot.py at 2018-07-18 06:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.74 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 0.08%

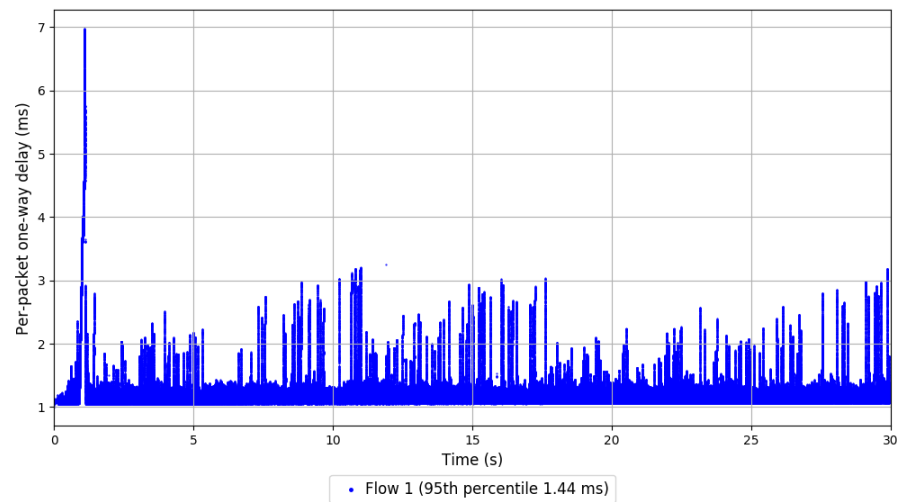
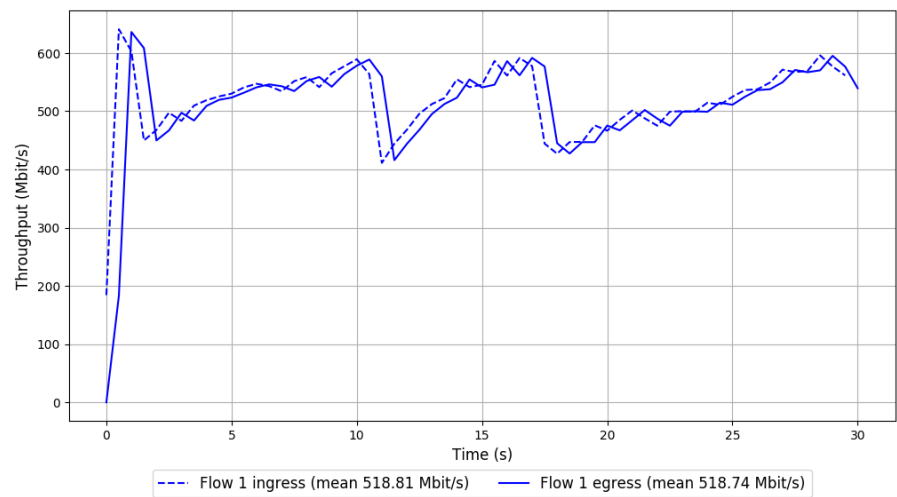
-- Flow 1:

Average throughput: 518.74 Mbit/s

95th percentile per-packet one-way delay: 1.444 ms

Loss rate: 0.08%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-18 01:40:54

End at: 2018-07-18 01:41:24

Local clock offset: 1.03 ms

Remote clock offset: 1.773 ms

Below is generated by plot.py at 2018-07-18 06:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.97 Mbit/s

95th percentile per-packet one-way delay: 1.455 ms

Loss rate: 0.06%

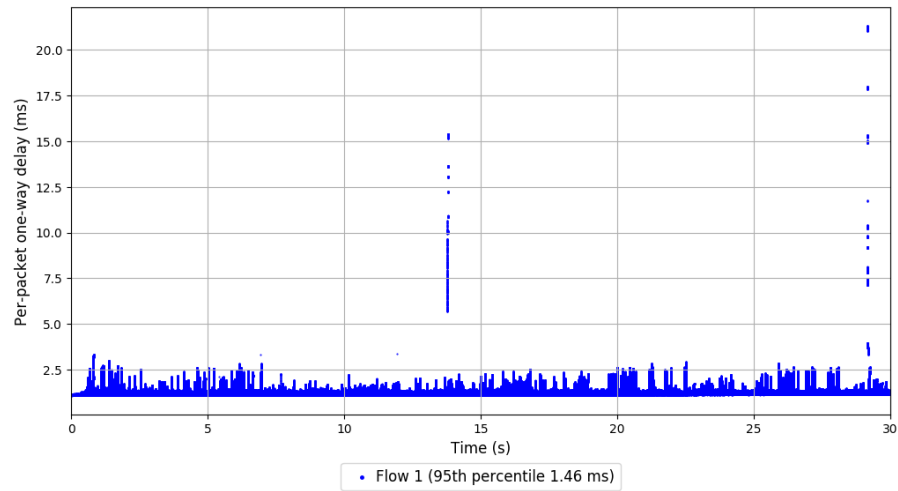
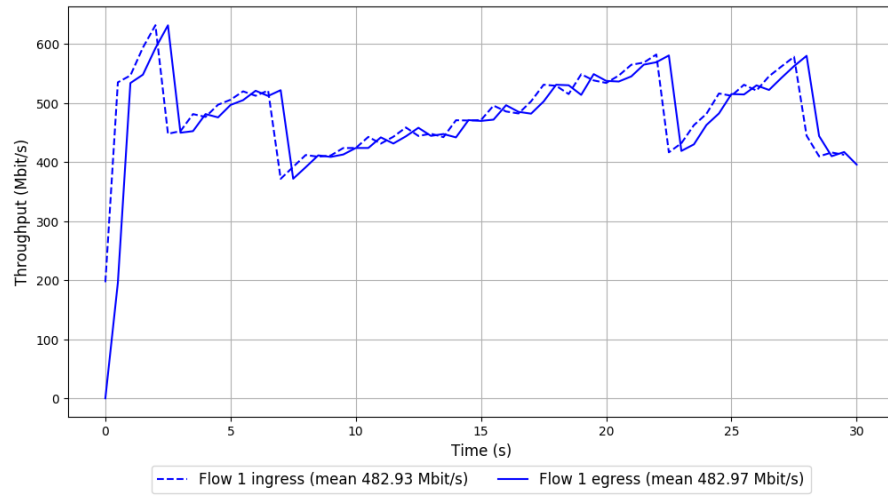
-- Flow 1:

Average throughput: 482.97 Mbit/s

95th percentile per-packet one-way delay: 1.455 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-18 02:06:47

End at: 2018-07-18 02:07:17

Local clock offset: 0.194 ms

Remote clock offset: 2.418 ms

Below is generated by plot.py at 2018-07-18 06:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 473.92 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.07%

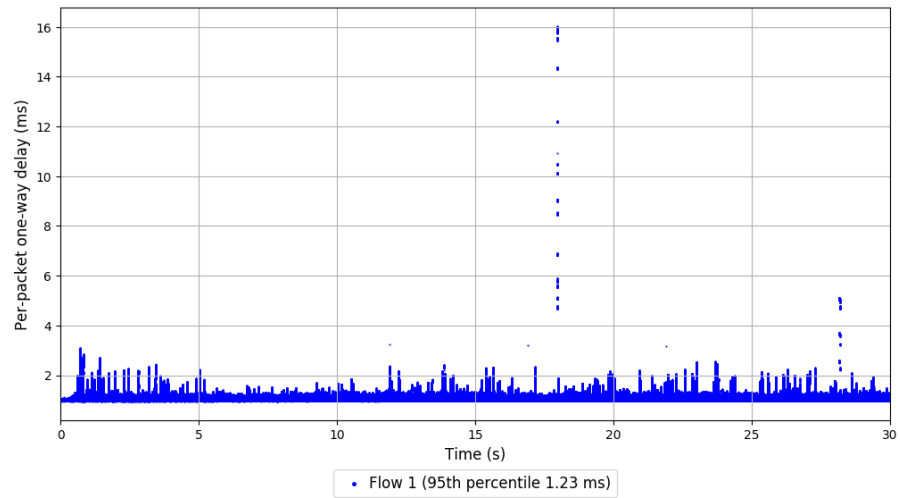
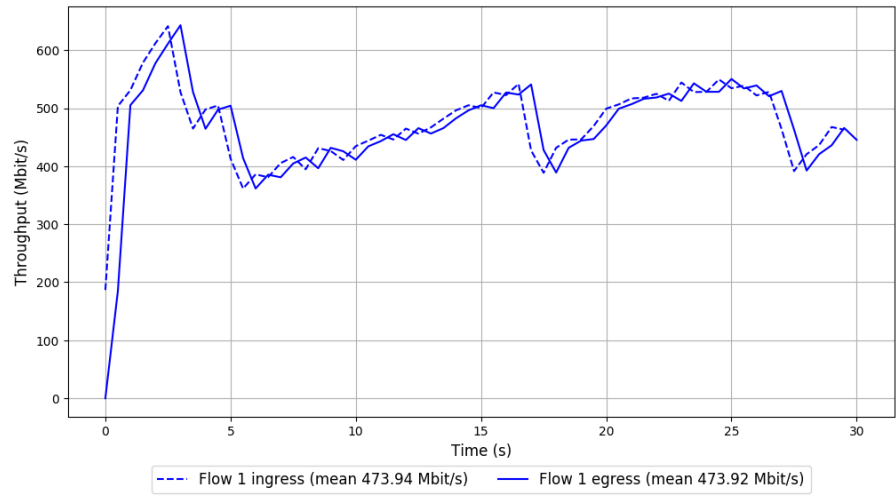
-- Flow 1:

Average throughput: 473.92 Mbit/s

95th percentile per-packet one-way delay: 1.232 ms

Loss rate: 0.07%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-07-18 02:32:43

End at: 2018-07-18 02:33:13

Local clock offset: 1.245 ms

Remote clock offset: 2.865 ms

Below is generated by plot.py at 2018-07-18 06:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.26 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.04%

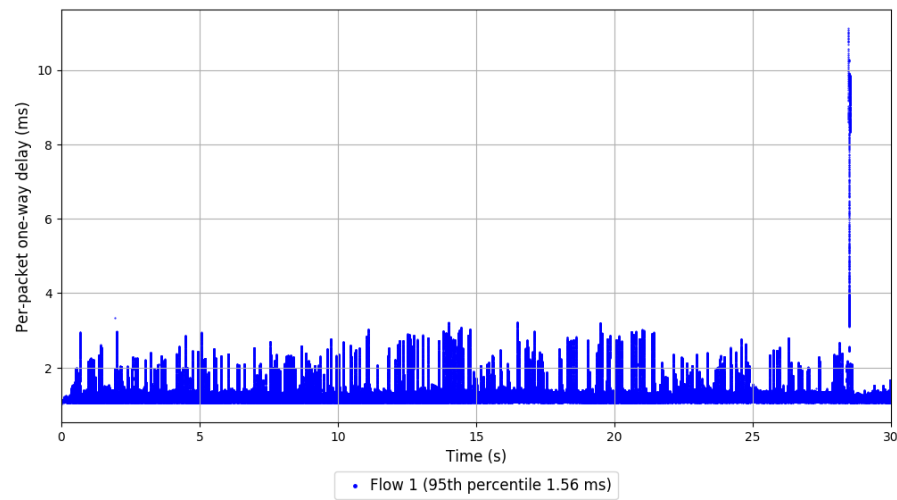
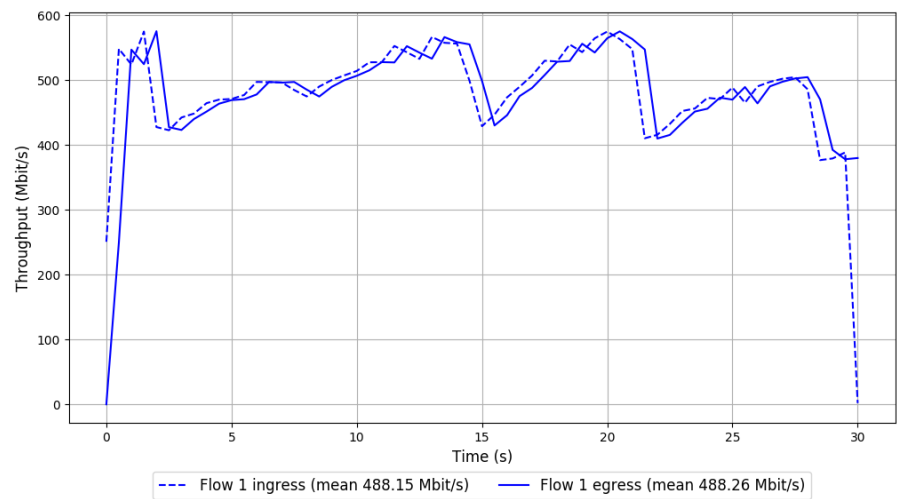
-- Flow 1:

Average throughput: 488.26 Mbit/s

95th percentile per-packet one-way delay: 1.559 ms

Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-07-18 02:58:40

End at: 2018-07-18 02:59:10

Local clock offset: 0.916 ms

Remote clock offset: 2.714 ms

Below is generated by plot.py at 2018-07-18 06:08:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.69 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 0.06%

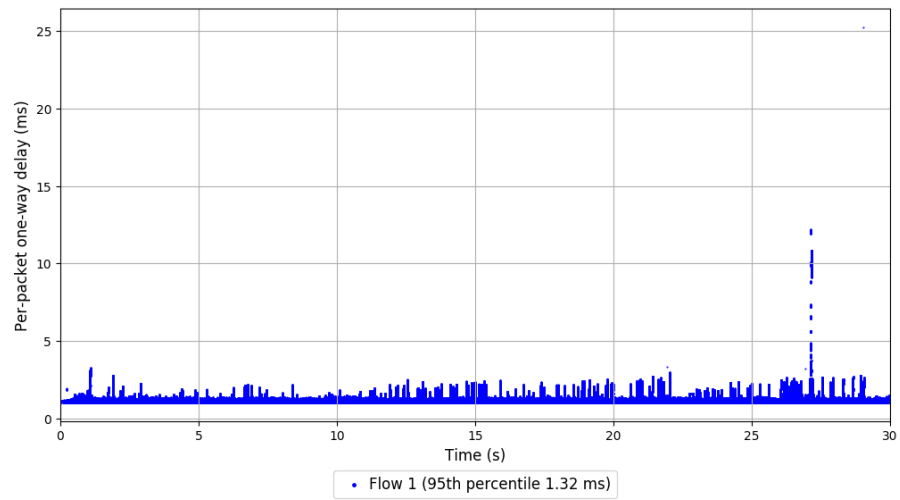
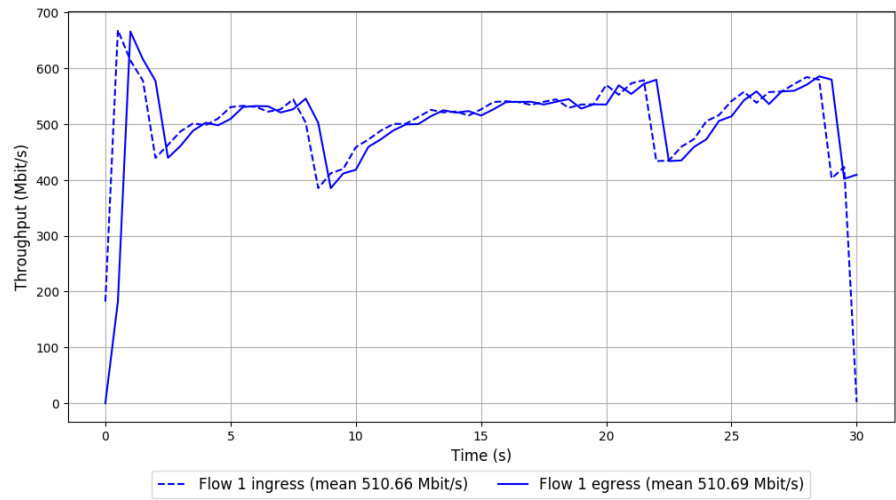
-- Flow 1:

Average throughput: 510.69 Mbit/s

95th percentile per-packet one-way delay: 1.318 ms

Loss rate: 0.06%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-07-18 03:24:31

End at: 2018-07-18 03:25:01

Local clock offset: 0.511 ms

Remote clock offset: 2.774 ms

Below is generated by plot.py at 2018-07-18 06:08:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.36 Mbit/s

95th percentile per-packet one-way delay: 1.560 ms

Loss rate: 0.05%

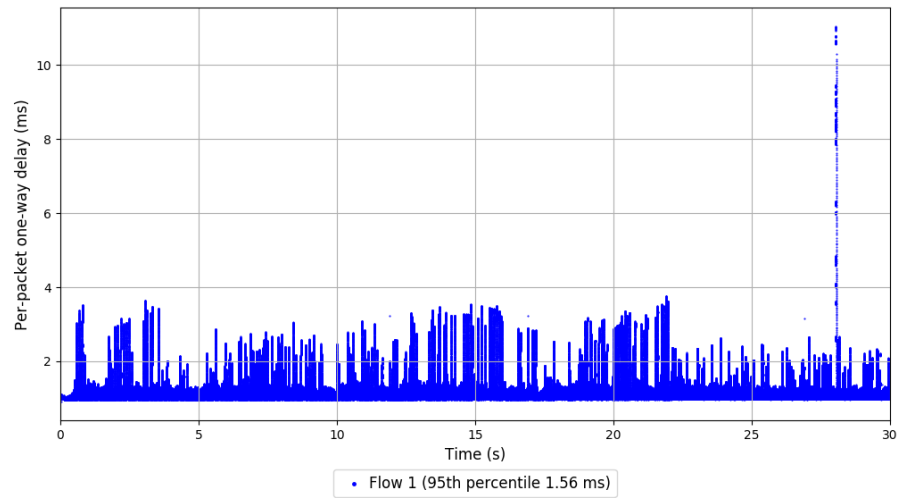
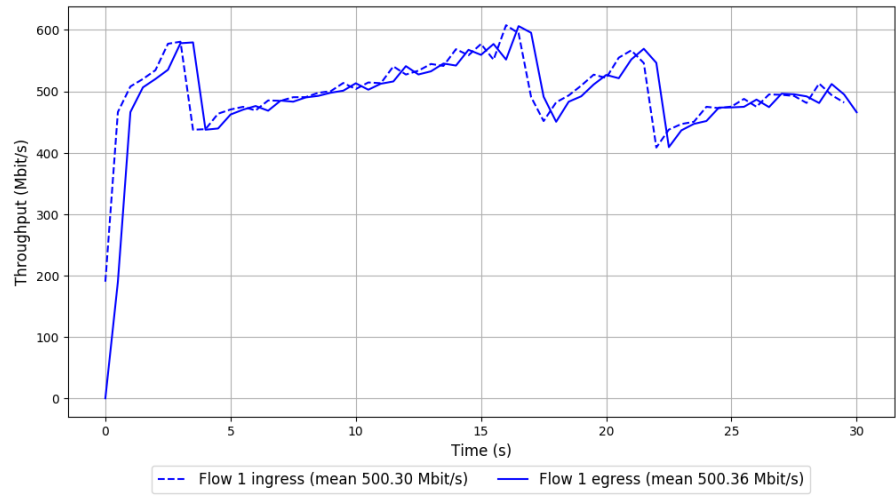
-- Flow 1:

Average throughput: 500.36 Mbit/s

95th percentile per-packet one-way delay: 1.560 ms

Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link

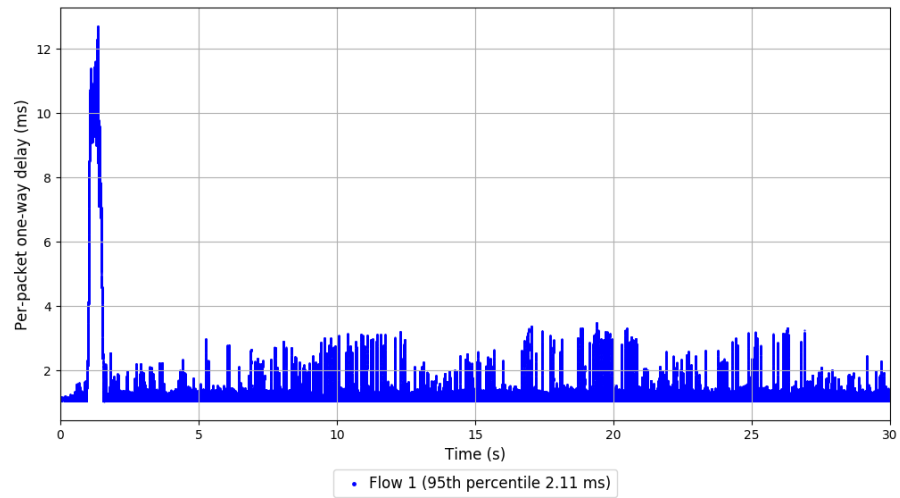
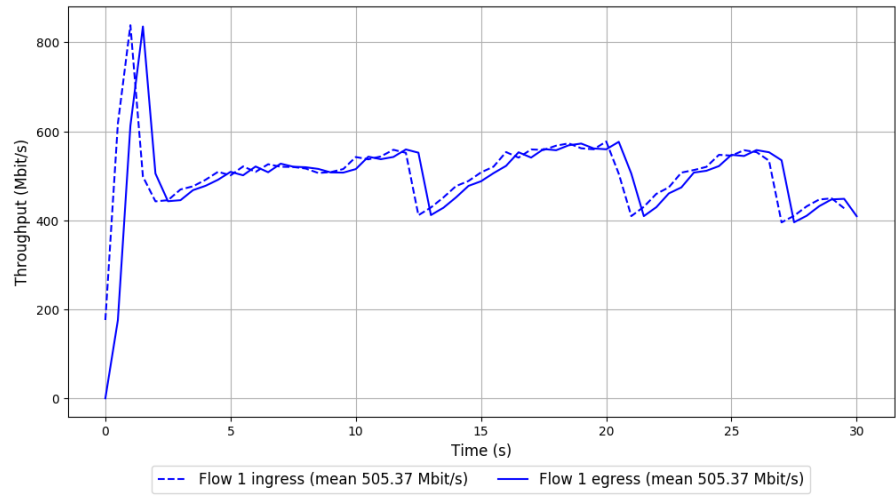


Run 7: Statistics of TCP Cubic

Start at: 2018-07-18 03:50:26
End at: 2018-07-18 03:50:56
Local clock offset: -0.028 ms
Remote clock offset: 2.666 ms

Below is generated by plot.py at 2018-07-18 06:09:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 505.37 Mbit/s
95th percentile per-packet one-way delay: 2.106 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 505.37 Mbit/s
95th percentile per-packet one-way delay: 2.106 ms
Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-18 04:16:02

End at: 2018-07-18 04:16:32

Local clock offset: 0.628 ms

Remote clock offset: 2.529 ms

Below is generated by plot.py at 2018-07-18 06:10:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.19 Mbit/s

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

Loss rate: 0.07%

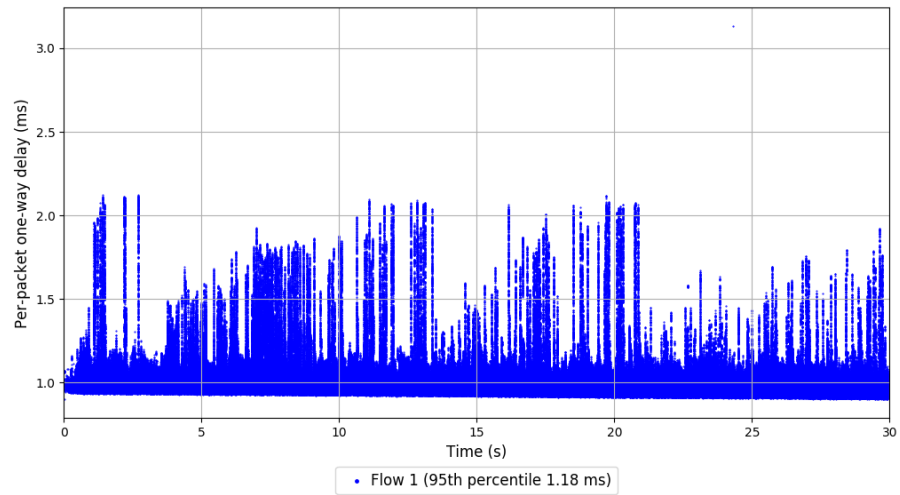
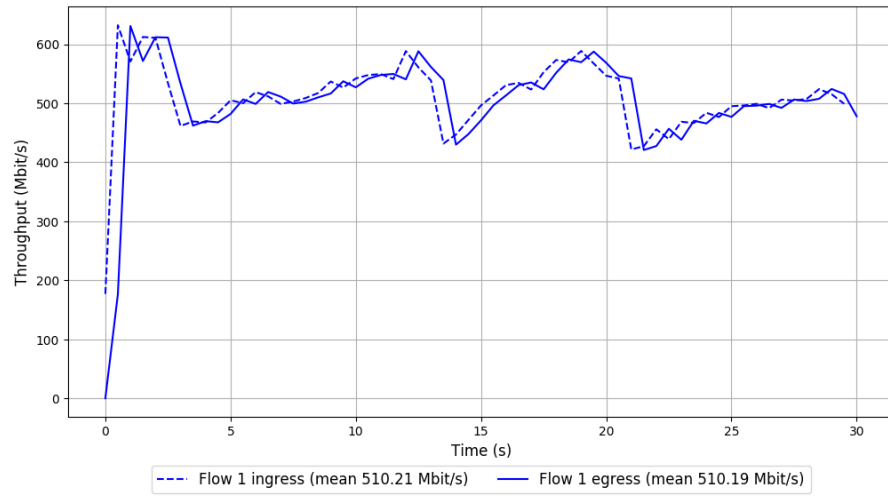
-- Flow 1:

Average throughput: 510.19 Mbit/s

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

Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-18 04:42:07

End at: 2018-07-18 04:42:37

Local clock offset: 1.236 ms

Remote clock offset: 2.341 ms

Below is generated by plot.py at 2018-07-18 06:10:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 511.05 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.07%

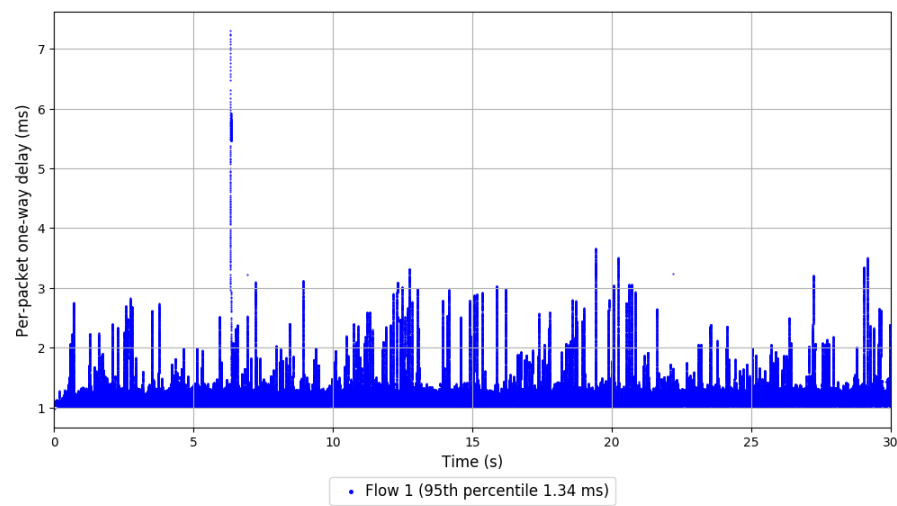
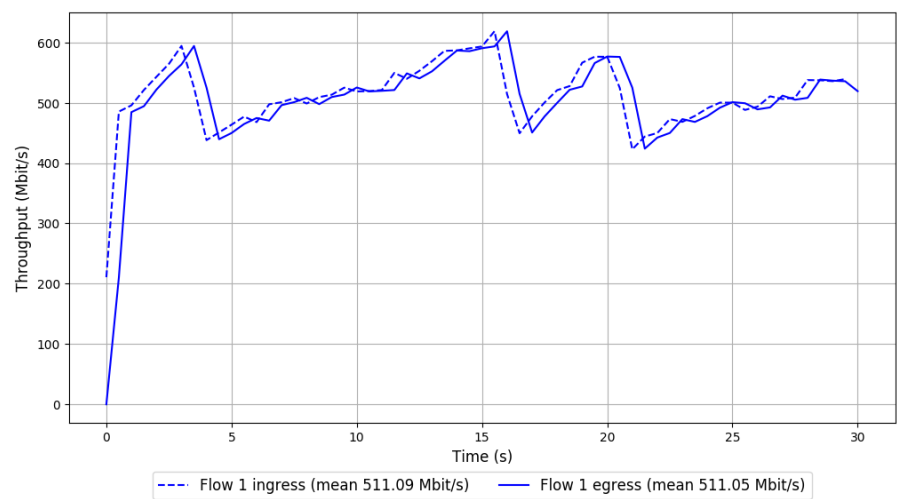
-- Flow 1:

Average throughput: 511.05 Mbit/s

95th percentile per-packet one-way delay: 1.341 ms

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-18 05:08:06

End at: 2018-07-18 05:08:36

Local clock offset: 0.898 ms

Remote clock offset: 1.868 ms

Below is generated by plot.py at 2018-07-18 06:11:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 498.86 Mbit/s

95th percentile per-packet one-way delay: 1.378 ms

Loss rate: 0.06%

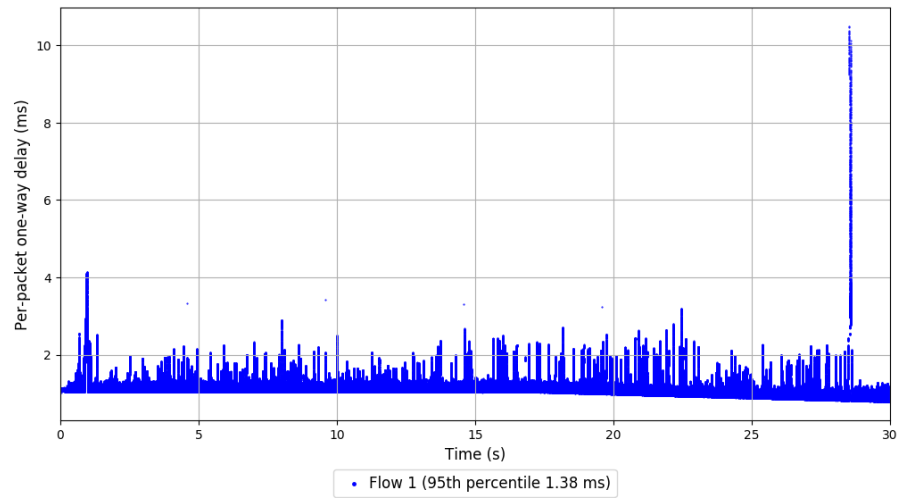
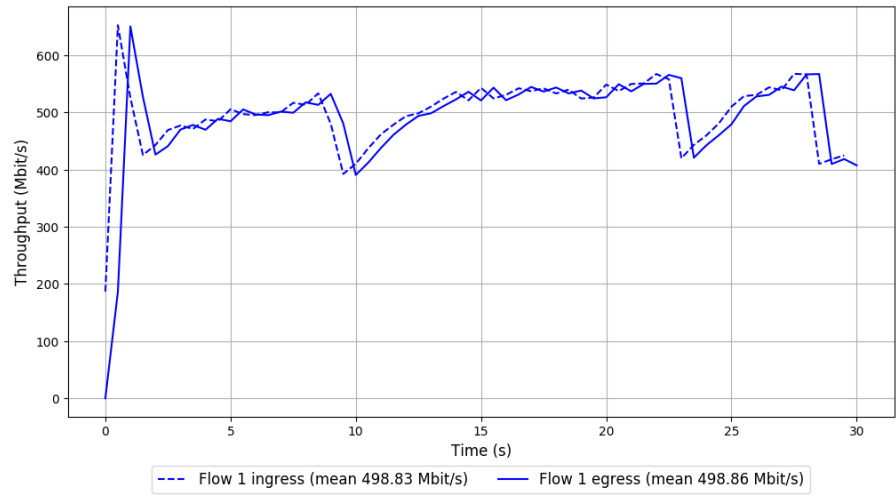
-- Flow 1:

Average throughput: 498.86 Mbit/s

95th percentile per-packet one-way delay: 1.378 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-18 01:19:25

End at: 2018-07-18 01:19:55

Local clock offset: 1.12 ms

Remote clock offset: 1.092 ms

Below is generated by plot.py at 2018-07-18 06:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 876.01 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.07%

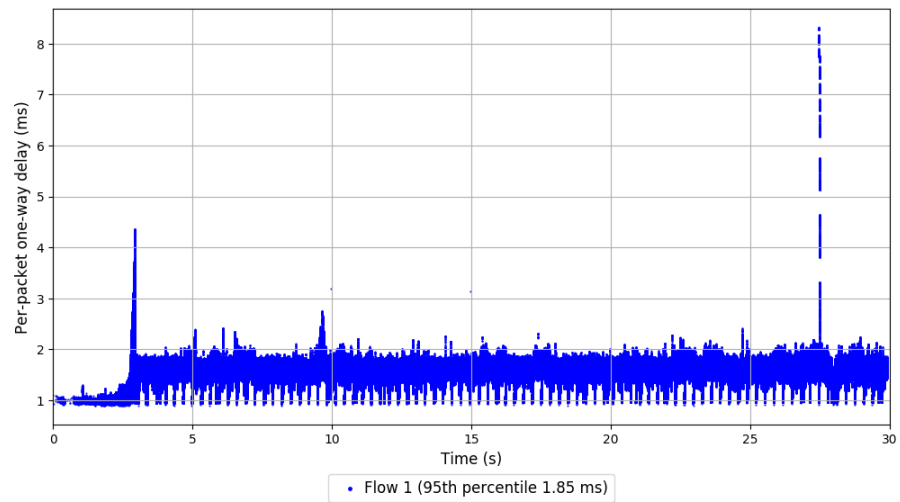
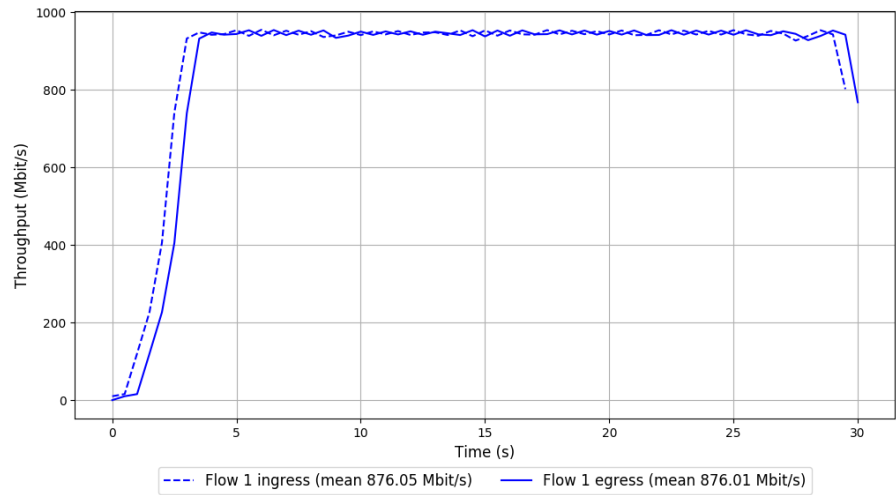
-- Flow 1:

Average throughput: 876.01 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.07%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-18 01:45:17

End at: 2018-07-18 01:45:47

Local clock offset: 0.762 ms

Remote clock offset: 1.918 ms

Below is generated by plot.py at 2018-07-18 06:19:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 799.76 Mbit/s

95th percentile per-packet one-way delay: 40.745 ms

Loss rate: 4.81%

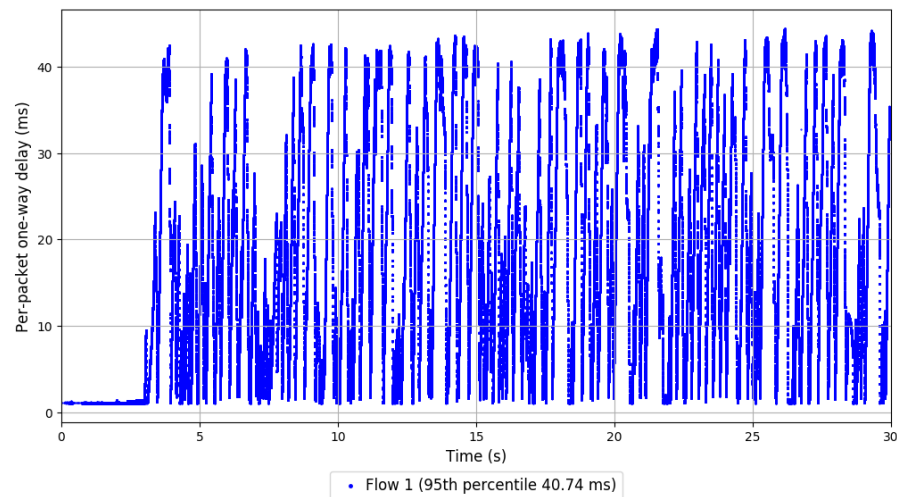
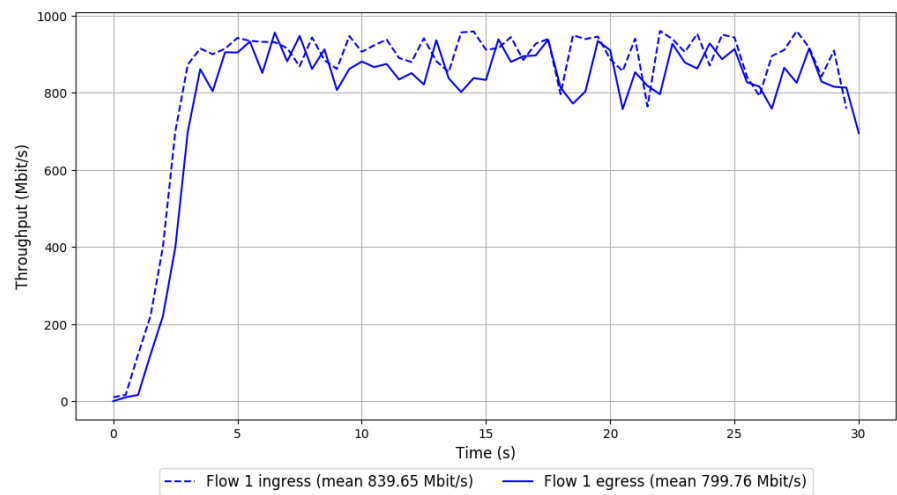
-- Flow 1:

Average throughput: 799.76 Mbit/s

95th percentile per-packet one-way delay: 40.745 ms

Loss rate: 4.81%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-07-18 02:11:07

End at: 2018-07-18 02:11:37

Local clock offset: 0.468 ms

Remote clock offset: 2.468 ms

Below is generated by plot.py at 2018-07-18 06:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 929.89 Mbit/s

95th percentile per-packet one-way delay: 2.184 ms

Loss rate: 0.08%

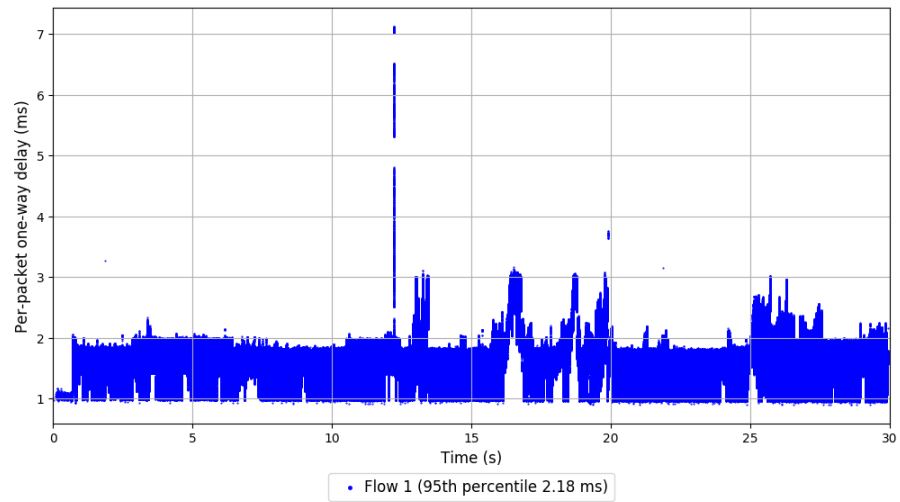
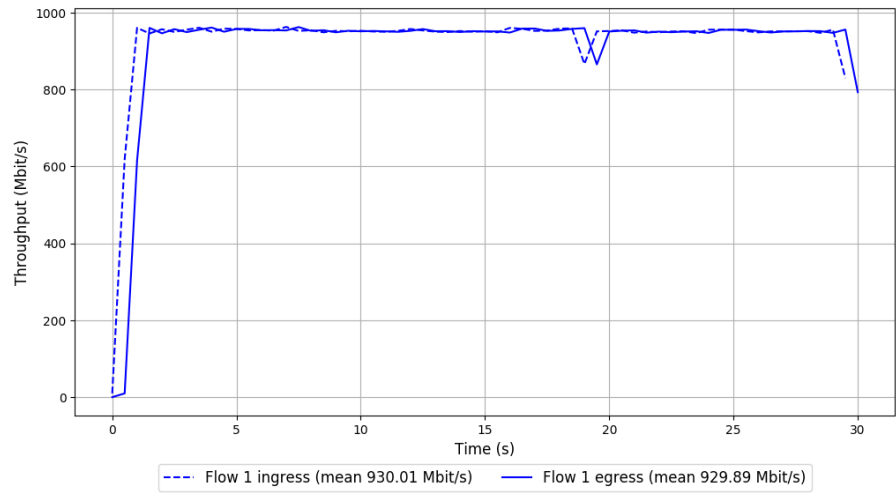
-- Flow 1:

Average throughput: 929.89 Mbit/s

95th percentile per-packet one-way delay: 2.184 ms

Loss rate: 0.08%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-07-18 02:37:09

End at: 2018-07-18 02:37:39

Local clock offset: 1.259 ms

Remote clock offset: 2.938 ms

Below is generated by plot.py at 2018-07-18 06:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 900.22 Mbit/s

95th percentile per-packet one-way delay: 1.929 ms

Loss rate: 0.07%

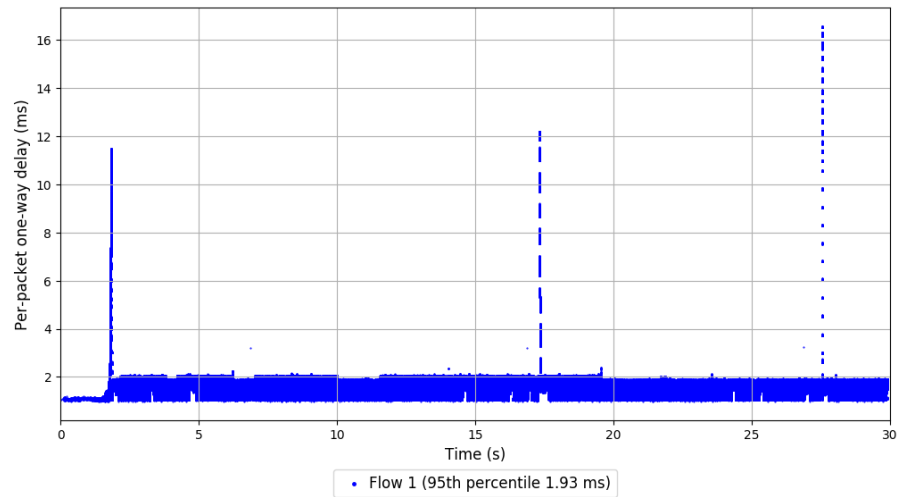
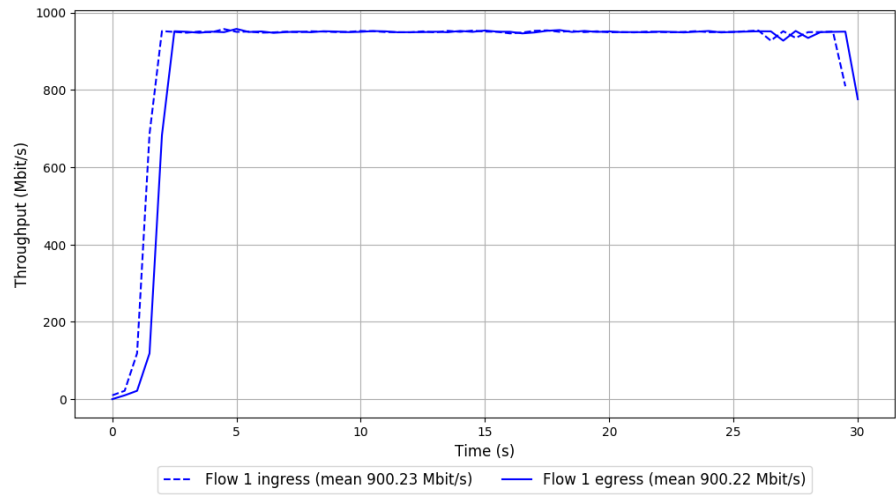
-- Flow 1:

Average throughput: 900.22 Mbit/s

95th percentile per-packet one-way delay: 1.929 ms

Loss rate: 0.07%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-07-18 03:02:59

End at: 2018-07-18 03:03:29

Local clock offset: 0.917 ms

Remote clock offset: 2.644 ms

Below is generated by plot.py at 2018-07-18 06:21:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 869.33 Mbit/s

95th percentile per-packet one-way delay: 37.541 ms

Loss rate: 2.39%

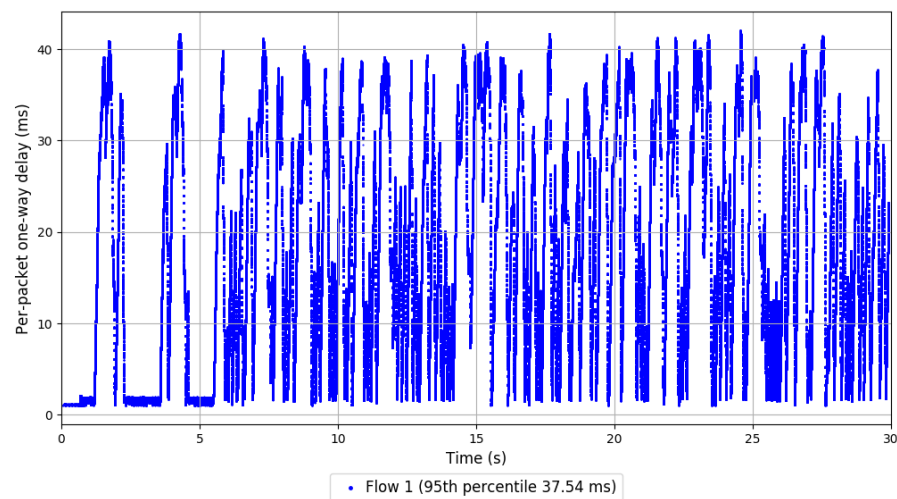
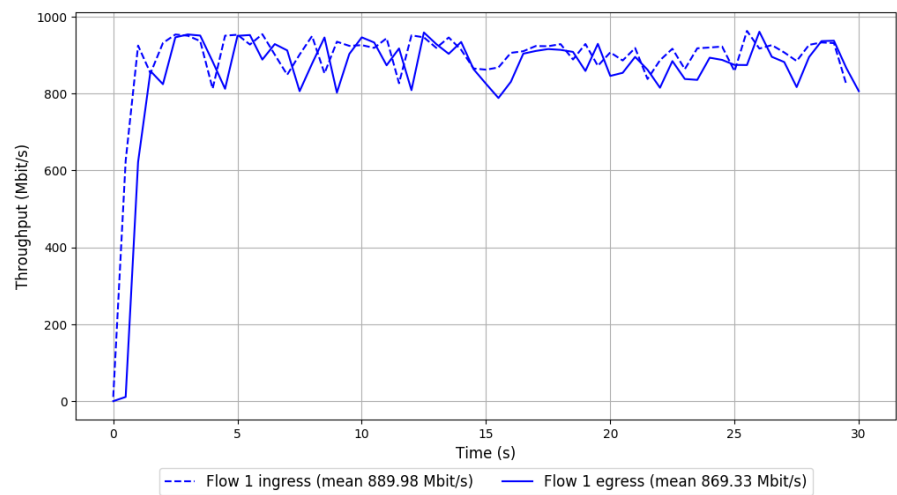
-- Flow 1:

Average throughput: 869.33 Mbit/s

95th percentile per-packet one-way delay: 37.541 ms

Loss rate: 2.39%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-07-18 03:28:52

End at: 2018-07-18 03:29:22

Local clock offset: 0.363 ms

Remote clock offset: 2.749 ms

Below is generated by plot.py at 2018-07-18 06:22:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 905.61 Mbit/s

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

Loss rate: 0.07%

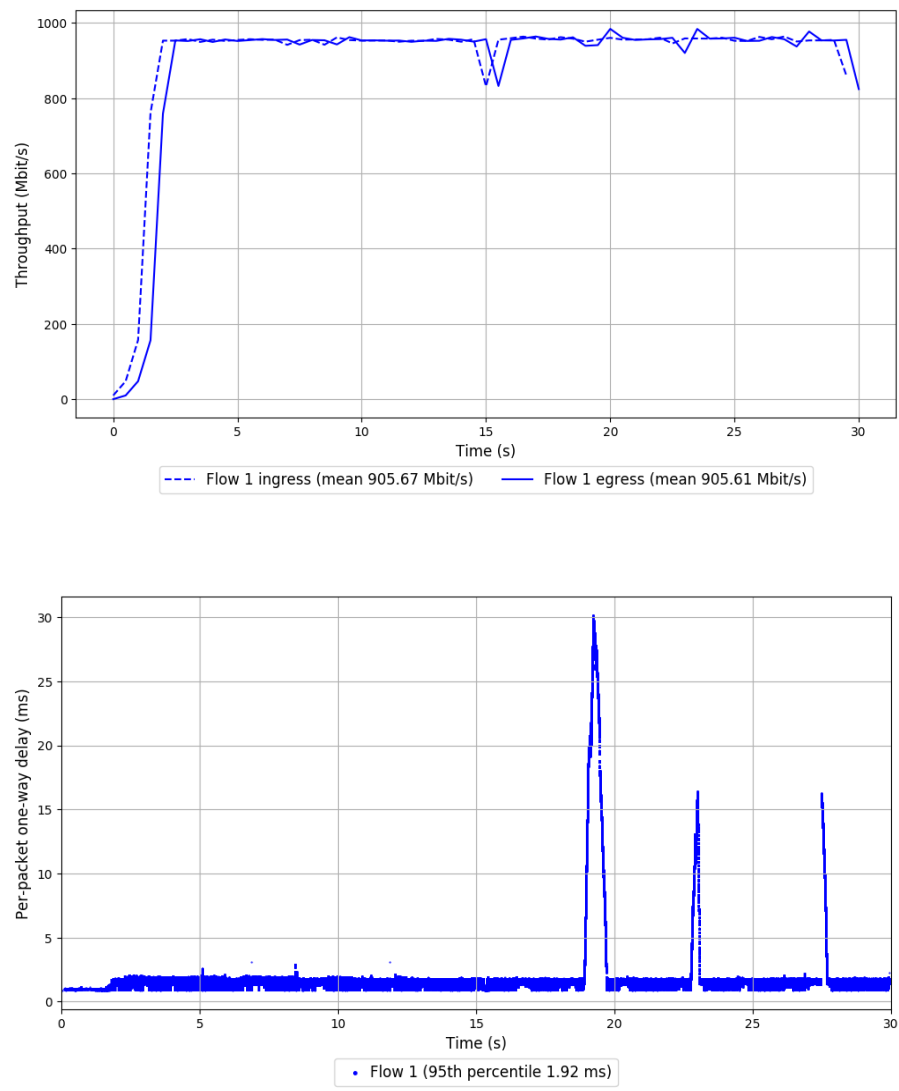
-- Flow 1:

Average throughput: 905.61 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-18 03:54:44

End at: 2018-07-18 03:55:14

Local clock offset: -0.059 ms

Remote clock offset: 2.703 ms

Below is generated by plot.py at 2018-07-18 06:22:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 875.16 Mbit/s

95th percentile per-packet one-way delay: 1.887 ms

Loss rate: 0.07%

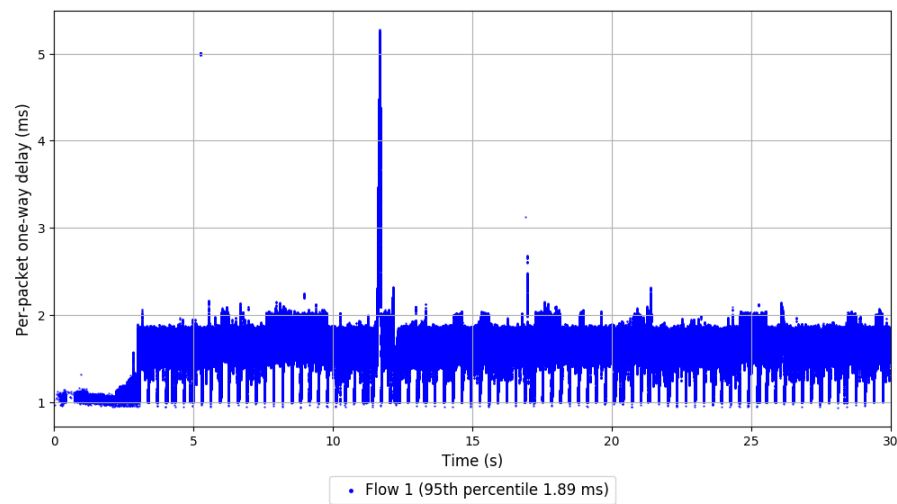
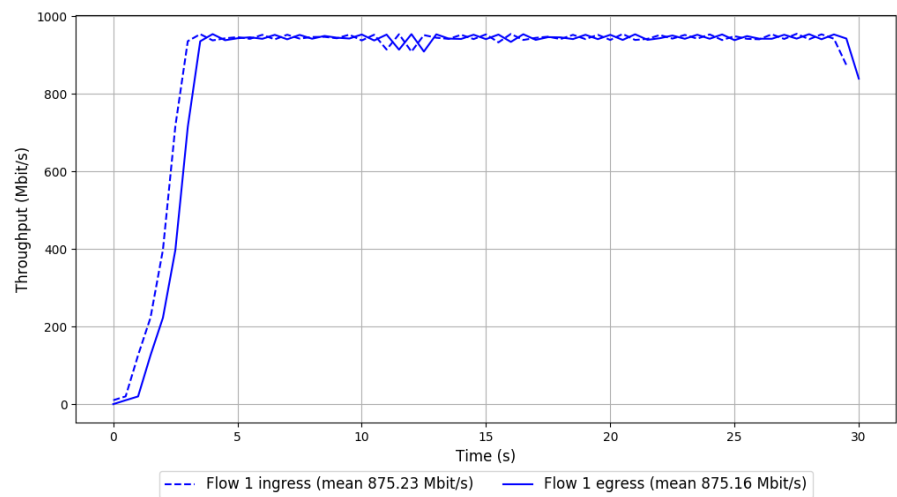
-- Flow 1:

Average throughput: 875.16 Mbit/s

95th percentile per-packet one-way delay: 1.887 ms

Loss rate: 0.07%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-18 04:20:28

End at: 2018-07-18 04:20:58

Local clock offset: 0.892 ms

Remote clock offset: 2.469 ms

Below is generated by plot.py at 2018-07-18 06:23:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.48 Mbit/s

95th percentile per-packet one-way delay: 1.918 ms

Loss rate: 0.18%

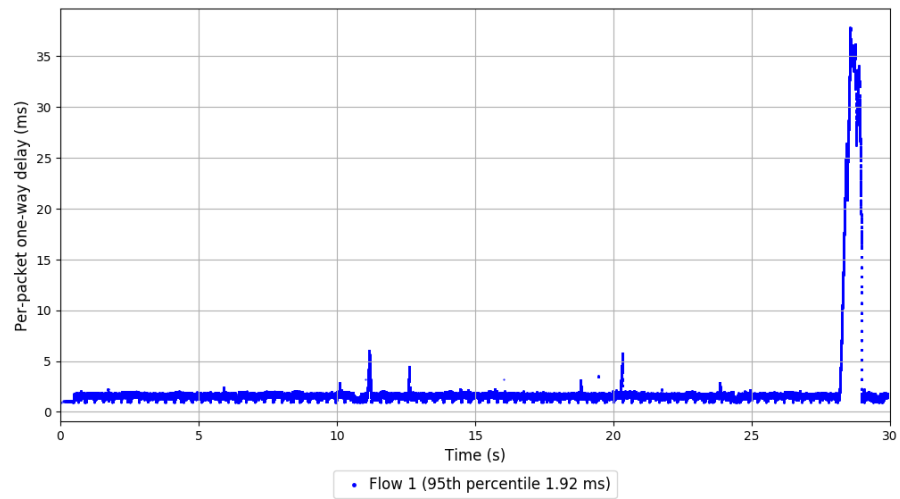
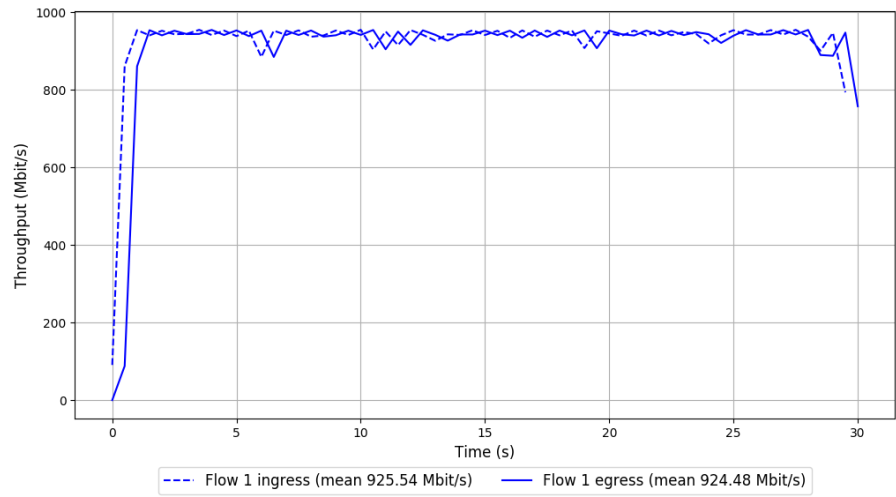
-- Flow 1:

Average throughput: 924.48 Mbit/s

95th percentile per-packet one-way delay: 1.918 ms

Loss rate: 0.18%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-18 04:46:30

End at: 2018-07-18 04:47:00

Local clock offset: 1.097 ms

Remote clock offset: 2.296 ms

Below is generated by plot.py at 2018-07-18 06:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 927.86 Mbit/s

95th percentile per-packet one-way delay: 8.829 ms

Loss rate: 0.17%

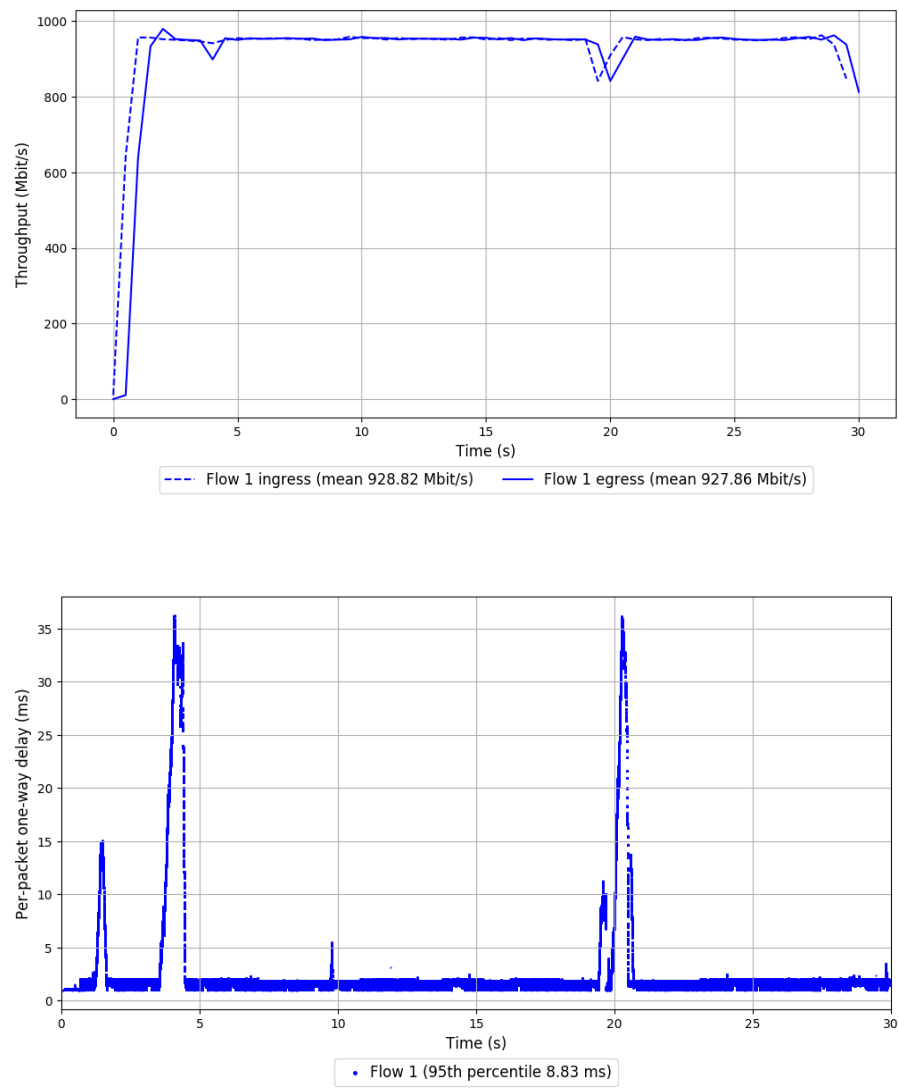
-- Flow 1:

Average throughput: 927.86 Mbit/s

95th percentile per-packet one-way delay: 8.829 ms

Loss rate: 0.17%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-18 05:12:25

End at: 2018-07-18 05:12:55

Local clock offset: 4.172 ms

Remote clock offset: 1.873 ms

Below is generated by plot.py at 2018-07-18 06:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.37 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.08%

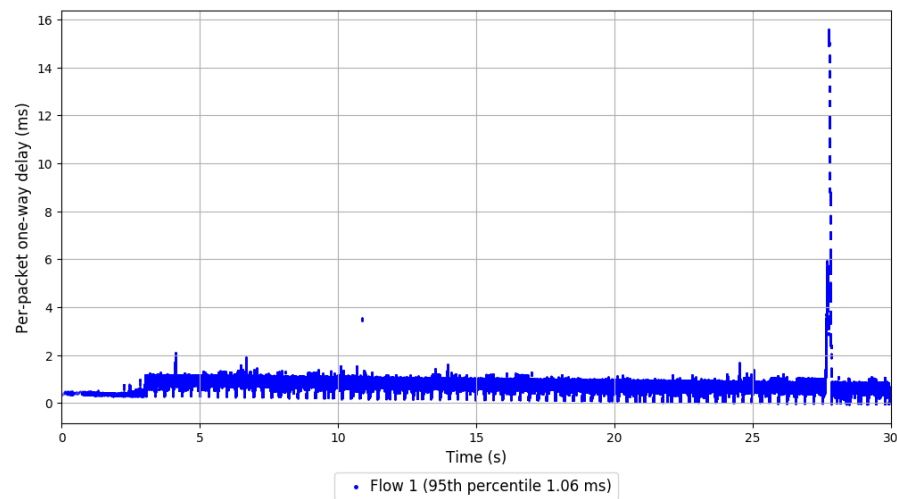
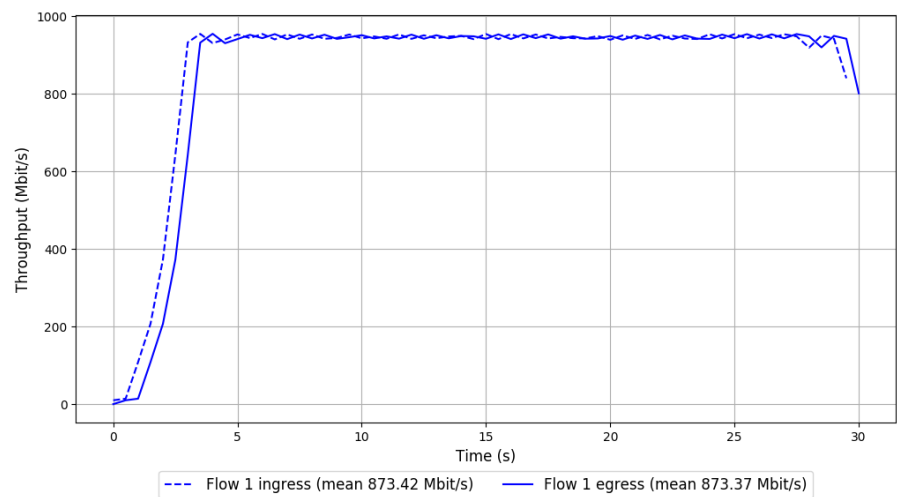
-- Flow 1:

Average throughput: 873.37 Mbit/s

95th percentile per-packet one-way delay: 1.063 ms

Loss rate: 0.08%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-18 01:32:41

End at: 2018-07-18 01:33:11

Local clock offset: 1.054 ms

Remote clock offset: 1.469 ms

Below is generated by plot.py at 2018-07-18 06:33:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 935.03 Mbit/s

95th percentile per-packet one-way delay: 6.170 ms

Loss rate: 0.07%

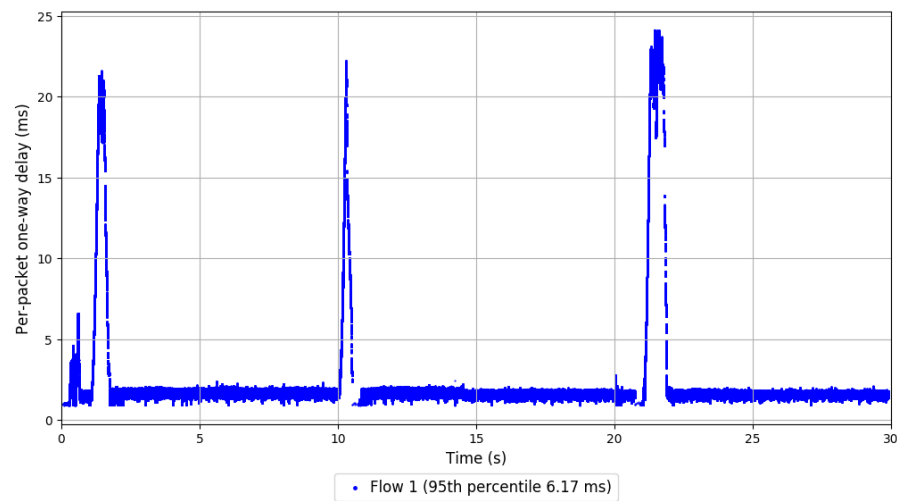
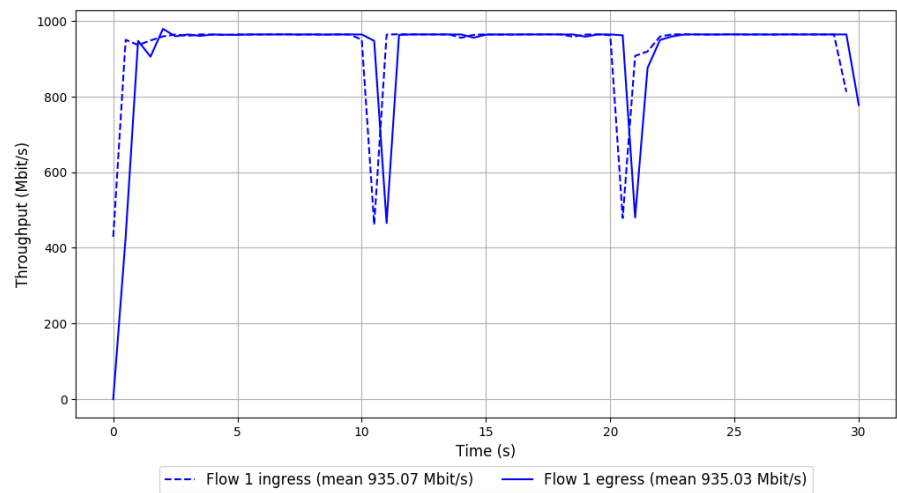
-- Flow 1:

Average throughput: 935.03 Mbit/s

95th percentile per-packet one-way delay: 6.170 ms

Loss rate: 0.07%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-18 01:58:38

End at: 2018-07-18 01:59:08

Local clock offset: 0.413 ms

Remote clock offset: 2.246 ms

Below is generated by plot.py at 2018-07-18 06:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 935.39 Mbit/s

95th percentile per-packet one-way delay: 1.887 ms

Loss rate: 0.07%

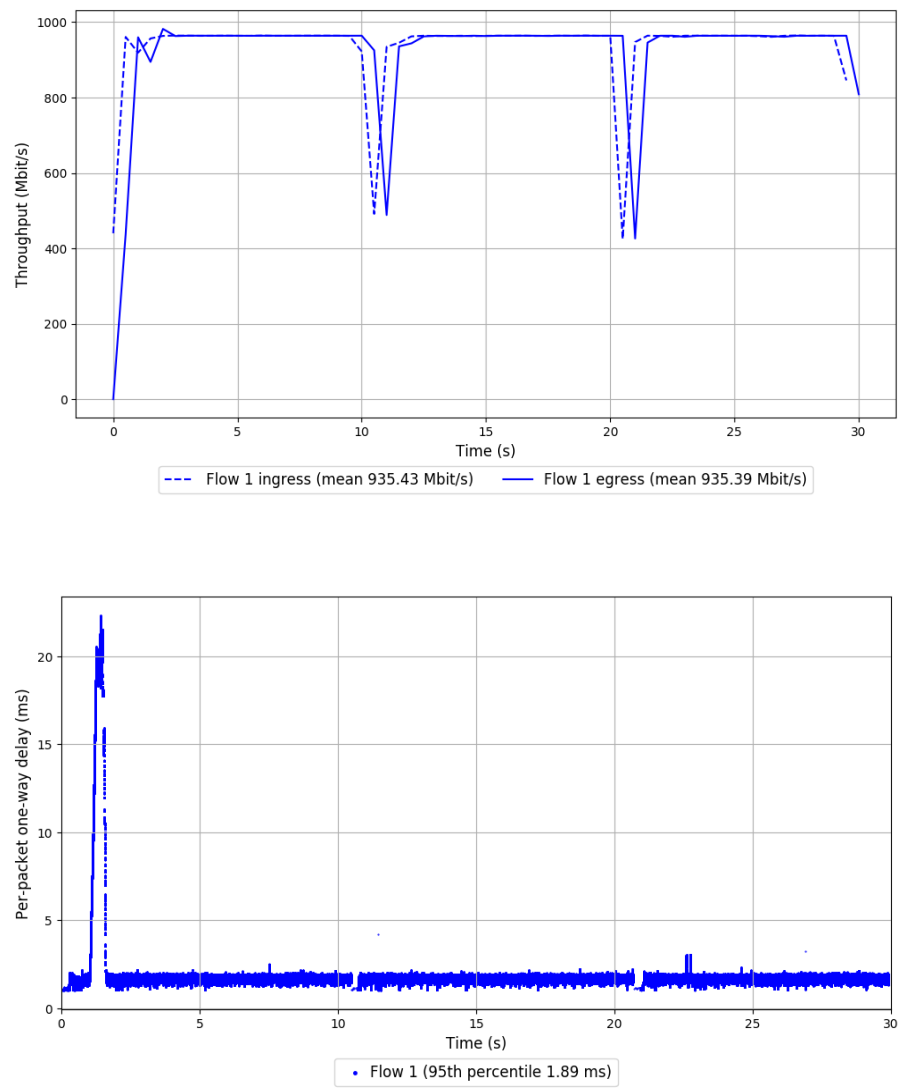
-- Flow 1:

Average throughput: 935.39 Mbit/s

95th percentile per-packet one-way delay: 1.887 ms

Loss rate: 0.07%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-18 02:24:29

End at: 2018-07-18 02:24:59

Local clock offset: 1.099 ms

Remote clock offset: 2.733 ms

Below is generated by plot.py at 2018-07-18 06:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.90 Mbit/s

95th percentile per-packet one-way delay: 2.628 ms

Loss rate: 0.08%

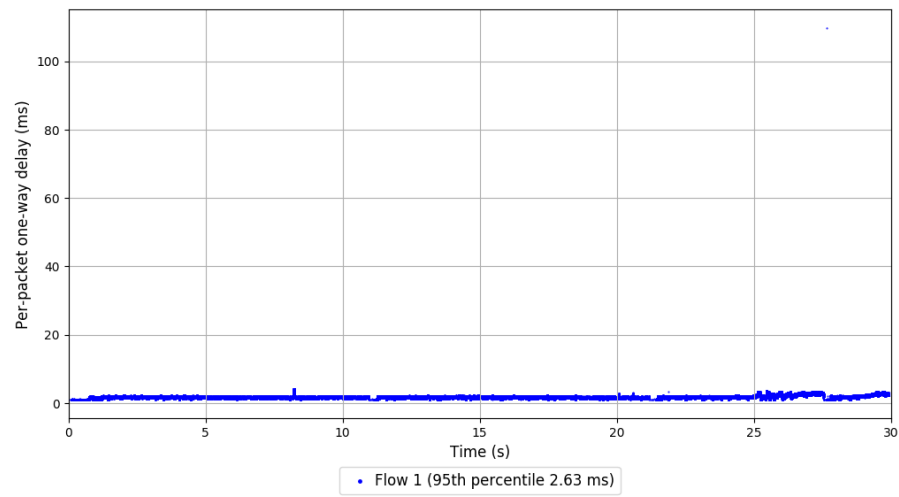
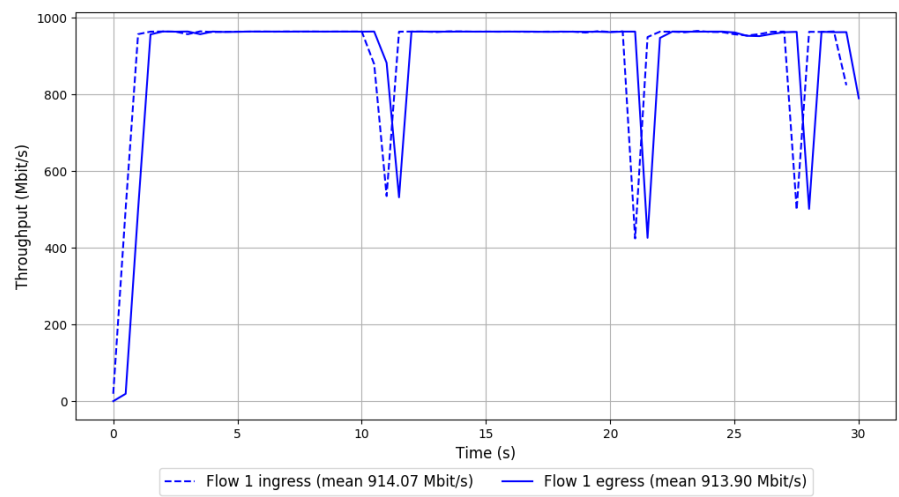
-- Flow 1:

Average throughput: 913.90 Mbit/s

95th percentile per-packet one-way delay: 2.628 ms

Loss rate: 0.08%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-18 02:50:29

End at: 2018-07-18 02:50:59

Local clock offset: 1.016 ms

Remote clock offset: 2.827 ms

Below is generated by plot.py at 2018-07-18 06:34:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.18 Mbit/s

95th percentile per-packet one-way delay: 2.018 ms

Loss rate: 0.07%

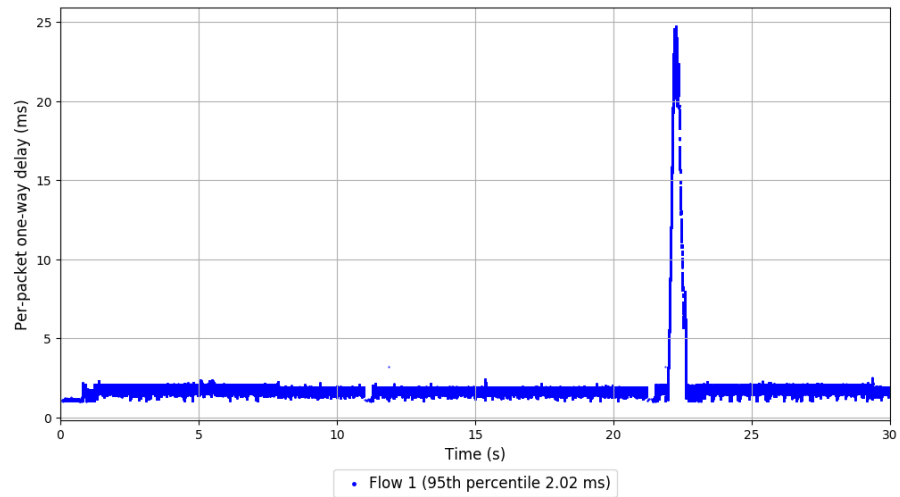
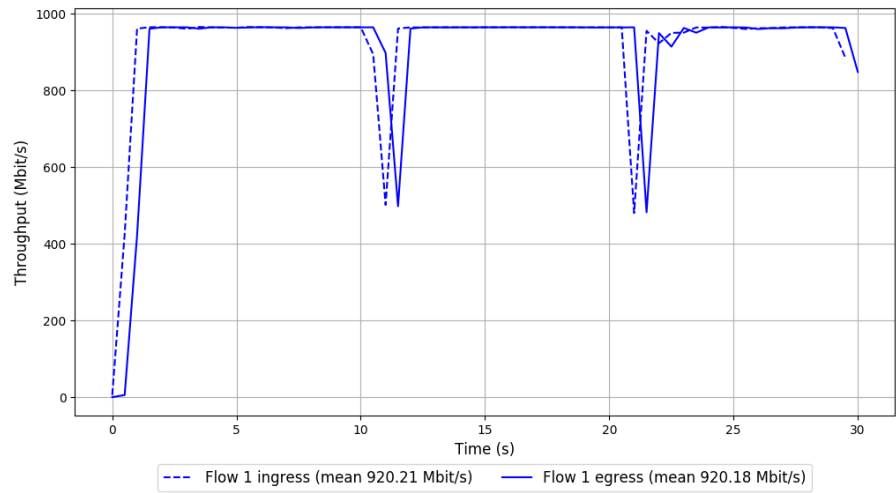
-- Flow 1:

Average throughput: 920.18 Mbit/s

95th percentile per-packet one-way delay: 2.018 ms

Loss rate: 0.07%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-18 03:16:18

End at: 2018-07-18 03:16:48

Local clock offset: 0.67 ms

Remote clock offset: 2.684 ms

Below is generated by plot.py at 2018-07-18 06:35:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 935.46 Mbit/s

95th percentile per-packet one-way delay: 1.889 ms

Loss rate: 0.07%

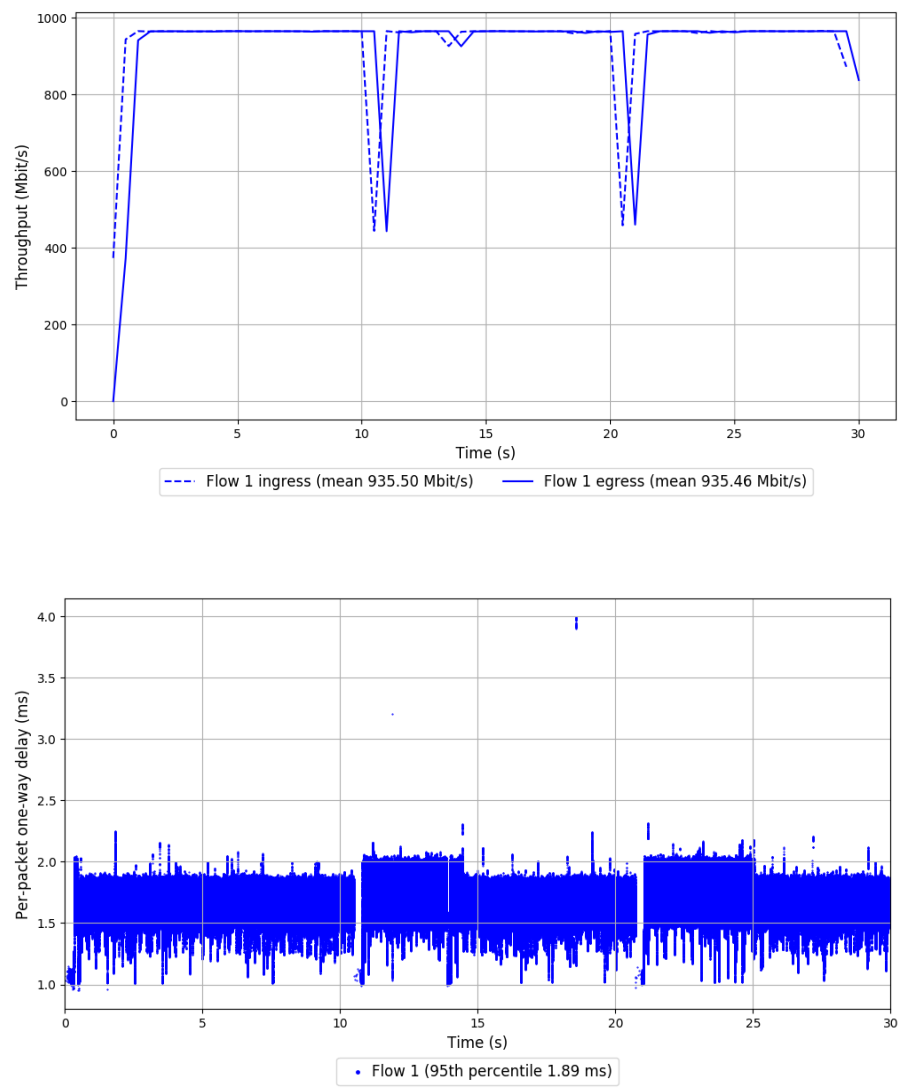
-- Flow 1:

Average throughput: 935.46 Mbit/s

95th percentile per-packet one-way delay: 1.889 ms

Loss rate: 0.07%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-18 03:42:11

End at: 2018-07-18 03:42:41

Local clock offset: 0.028 ms

Remote clock offset: 2.681 ms

Below is generated by plot.py at 2018-07-18 06:35:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 877.88 Mbit/s

95th percentile per-packet one-way delay: 38.584 ms

Loss rate: 4.13%

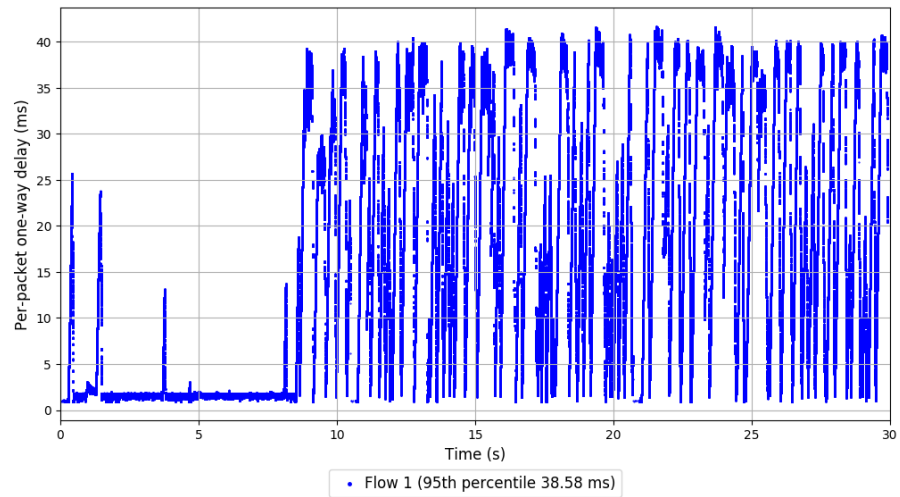
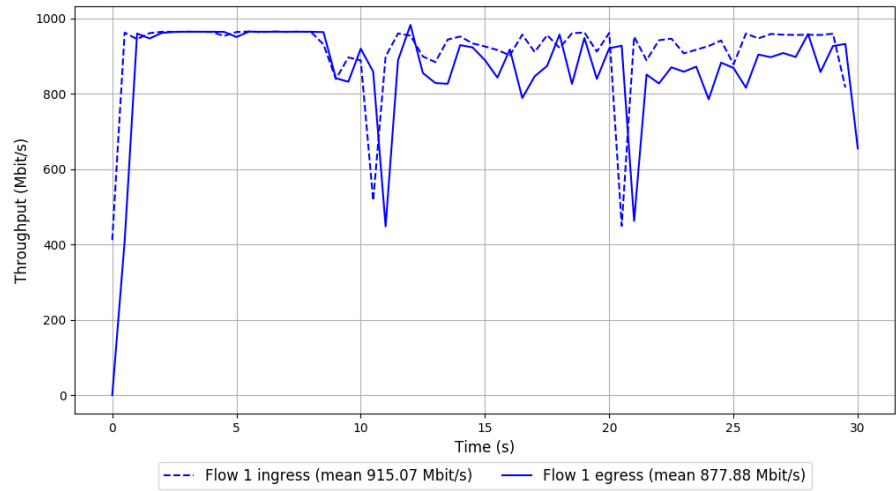
-- Flow 1:

Average throughput: 877.88 Mbit/s

95th percentile per-packet one-way delay: 38.584 ms

Loss rate: 4.13%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-07-18 04:08:04

End at: 2018-07-18 04:08:34

Local clock offset: 0.025 ms

Remote clock offset: 2.705 ms

Below is generated by plot.py at 2018-07-18 06:44:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.01 Mbit/s

95th percentile per-packet one-way delay: 2.175 ms

Loss rate: 0.07%

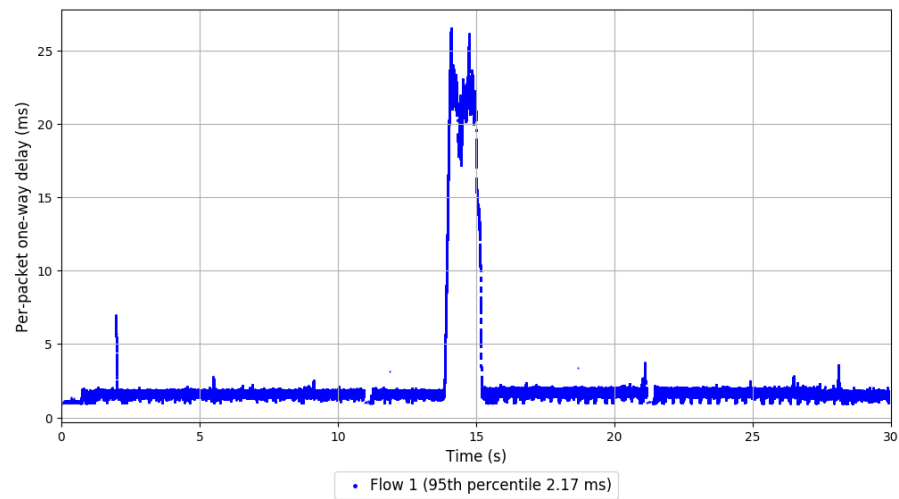
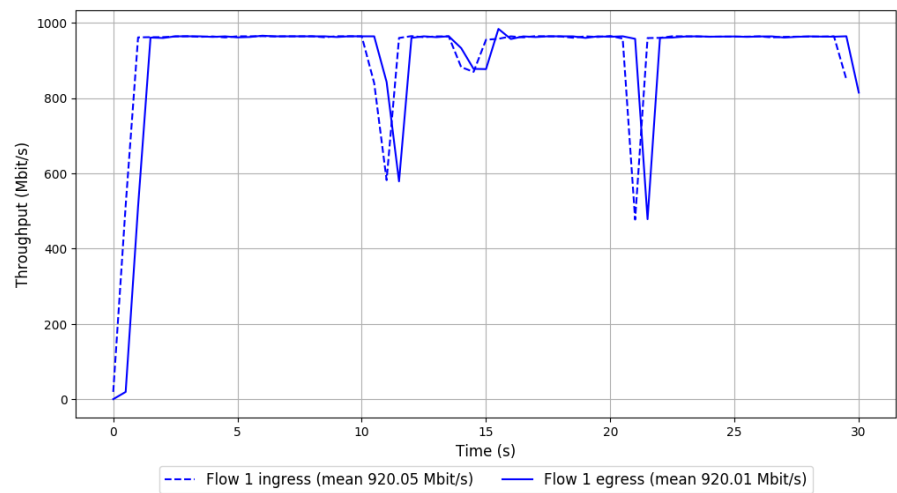
-- Flow 1:

Average throughput: 920.01 Mbit/s

95th percentile per-packet one-way delay: 2.175 ms

Loss rate: 0.07%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-18 04:33:51

End at: 2018-07-18 04:34:21

Local clock offset: 1.315 ms

Remote clock offset: 2.384 ms

Below is generated by plot.py at 2018-07-18 06:44:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 936.06 Mbit/s

95th percentile per-packet one-way delay: 2.842 ms

Loss rate: 0.08%

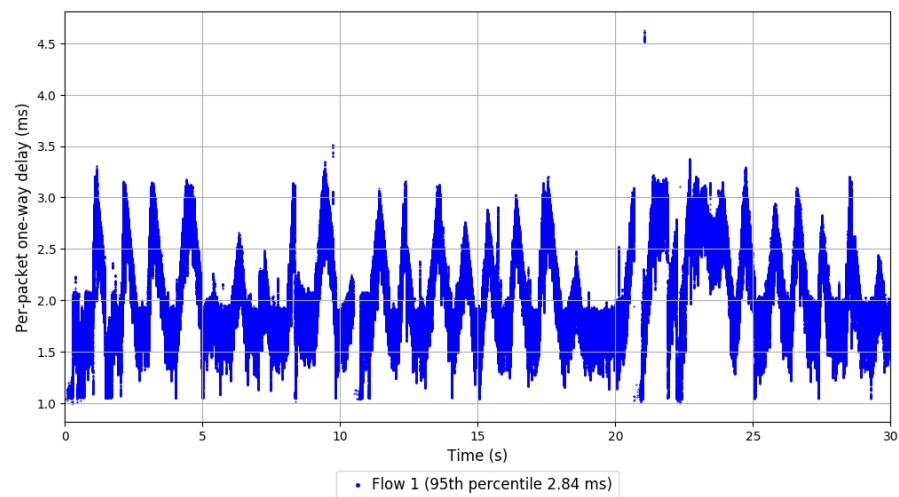
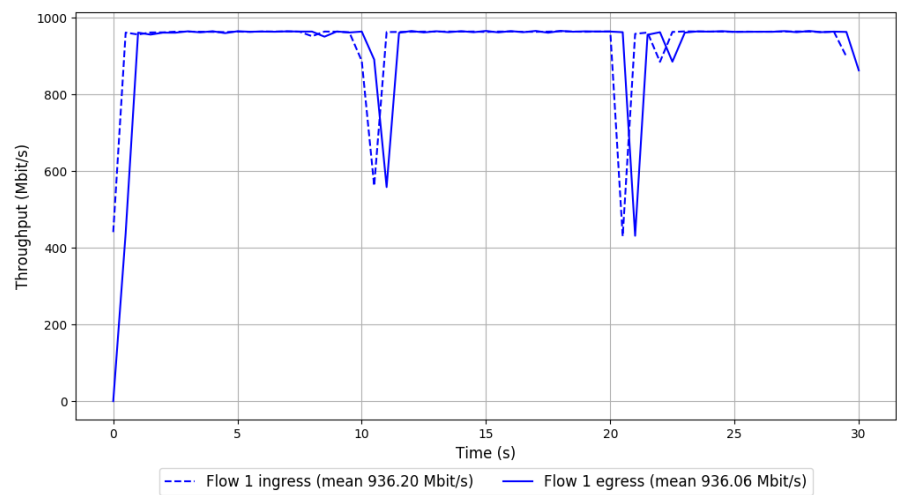
-- Flow 1:

Average throughput: 936.06 Mbit/s

95th percentile per-packet one-way delay: 2.842 ms

Loss rate: 0.08%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-18 04:59:52

End at: 2018-07-18 05:00:22

Local clock offset: 0.897 ms

Remote clock offset: 2.056 ms

Below is generated by plot.py at 2018-07-18 06:45:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 923.32 Mbit/s

95th percentile per-packet one-way delay: 1.833 ms

Loss rate: 0.07%

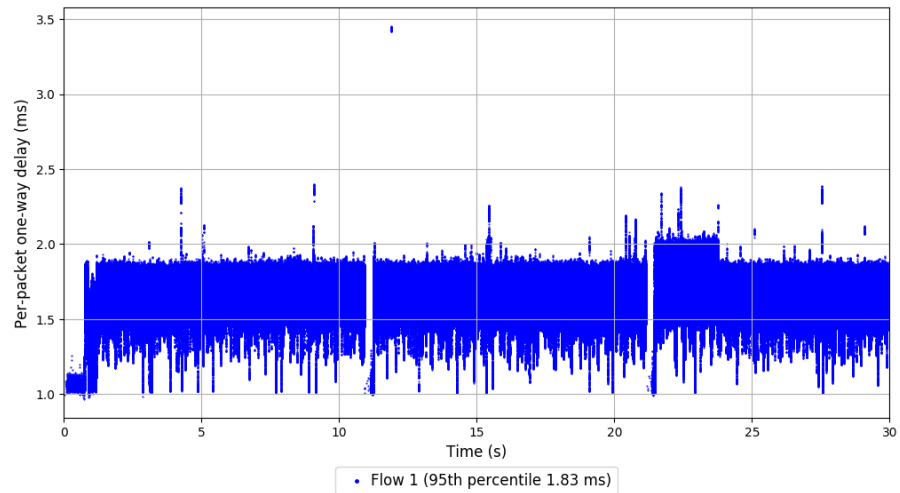
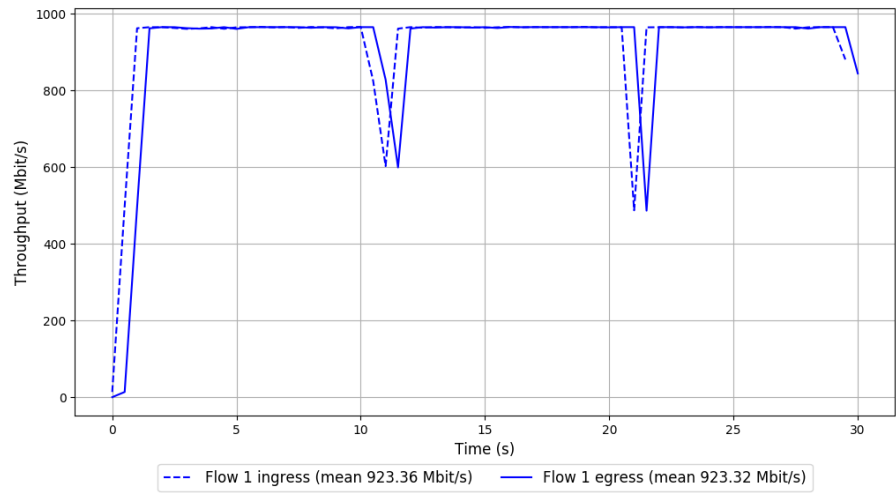
-- Flow 1:

Average throughput: 923.32 Mbit/s

95th percentile per-packet one-way delay: 1.833 ms

Loss rate: 0.07%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-18 05:25:45

End at: 2018-07-18 05:26:15

Local clock offset: 10.822 ms

Remote clock offset: 1.617 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.18 Mbit/s

95th percentile per-packet one-way delay: 1.755 ms

Loss rate: 0.07%

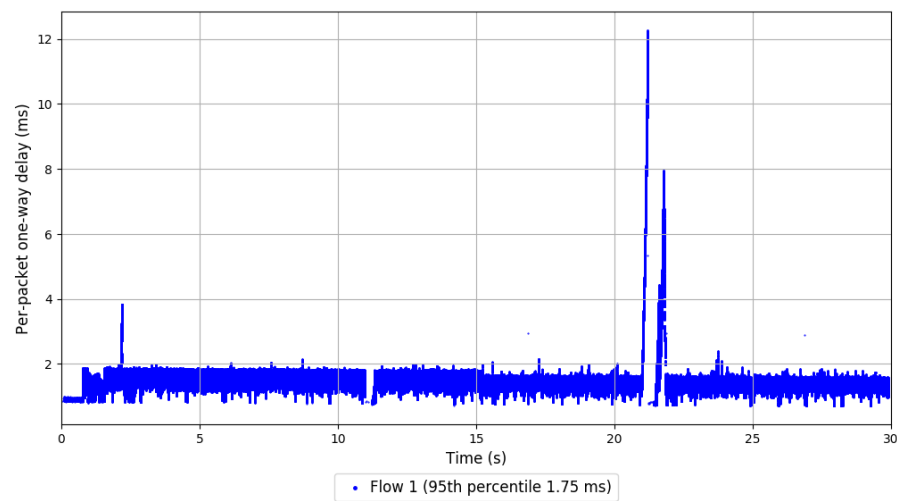
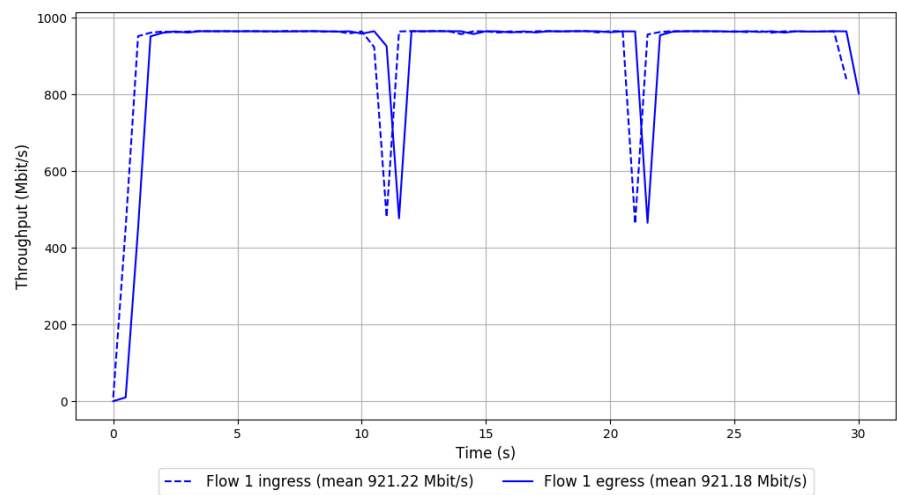
-- Flow 1:

Average throughput: 921.18 Mbit/s

95th percentile per-packet one-way delay: 1.755 ms

Loss rate: 0.07%

Run 10: Report of FillP-Sheep — Data Link

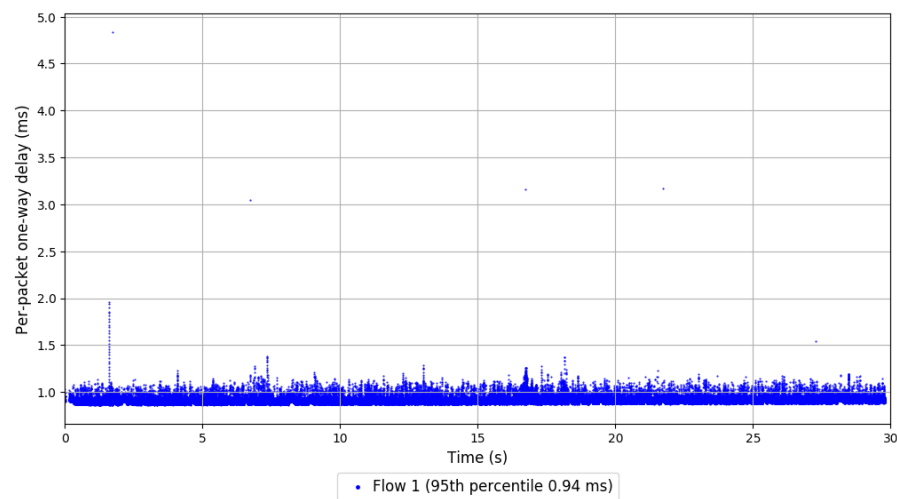
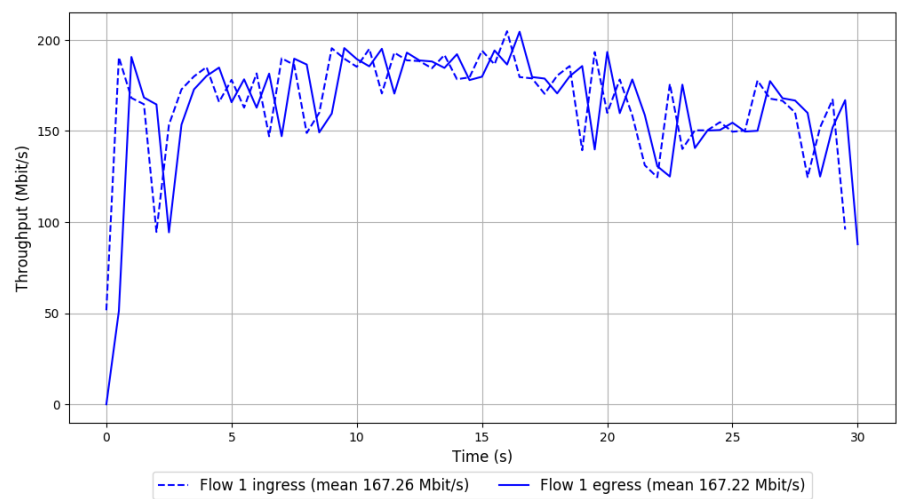


```
Run 1: Statistics of Indigo

Start at: 2018-07-18 01:18:01
End at: 2018-07-18 01:18:31
Local clock offset: 1.046 ms
Remote clock offset: 1.053 ms

# Below is generated by plot.py at 2018-07-18 06:46:21
# Datalink statistics
-- Total of 1 flow:
Average throughput: 167.22 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 167.22 Mbit/s
95th percentile per-packet one-way delay: 0.939 ms
Loss rate: 0.09%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-18 01:43:52

End at: 2018-07-18 01:44:22

Local clock offset: 0.799 ms

Remote clock offset: 1.874 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.20 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.03%

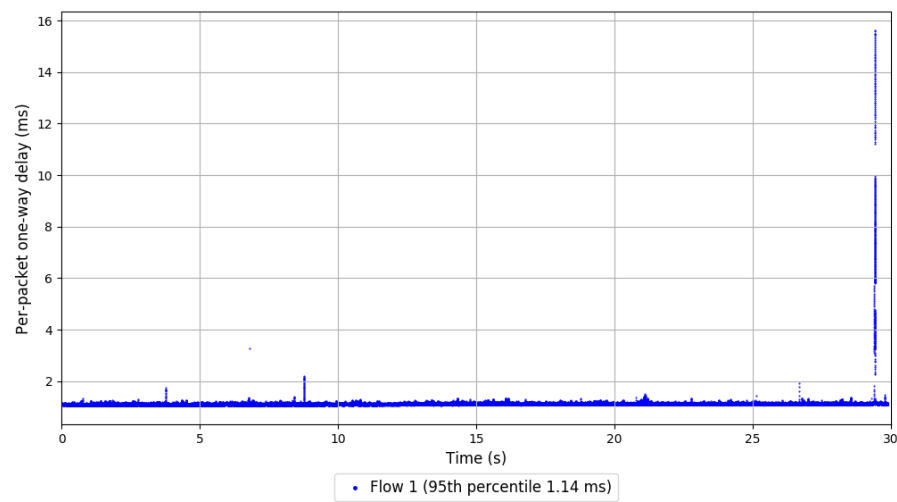
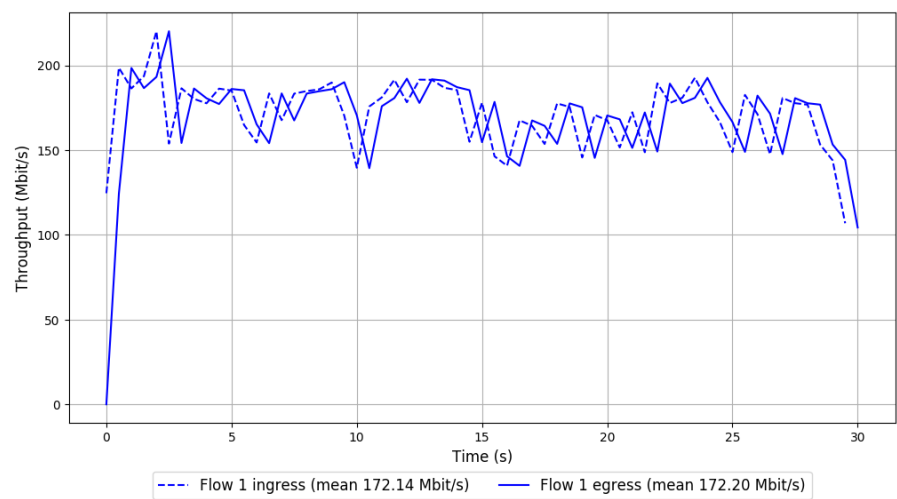
-- Flow 1:

Average throughput: 172.20 Mbit/s

95th percentile per-packet one-way delay: 1.137 ms

Loss rate: 0.03%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-18 02:09:42

End at: 2018-07-18 02:10:12

Local clock offset: 0.357 ms

Remote clock offset: 2.502 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.89 Mbit/s

95th percentile per-packet one-way delay: 0.997 ms

Loss rate: 0.09%

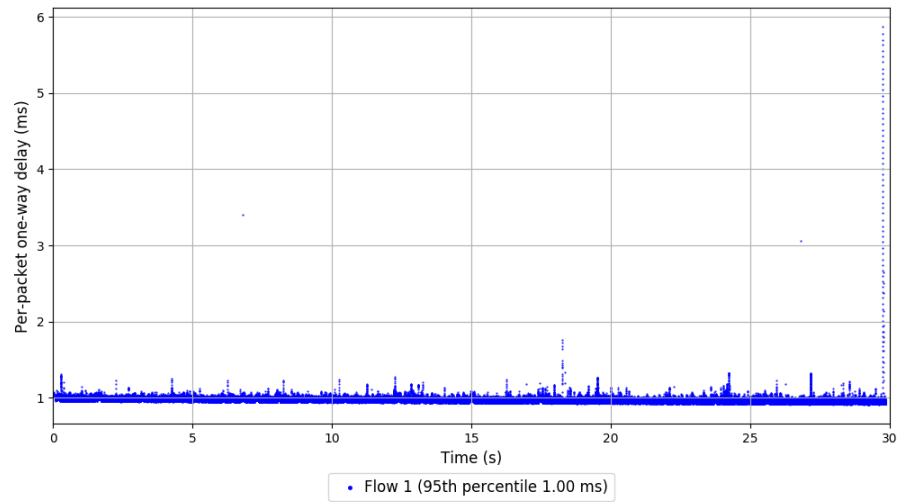
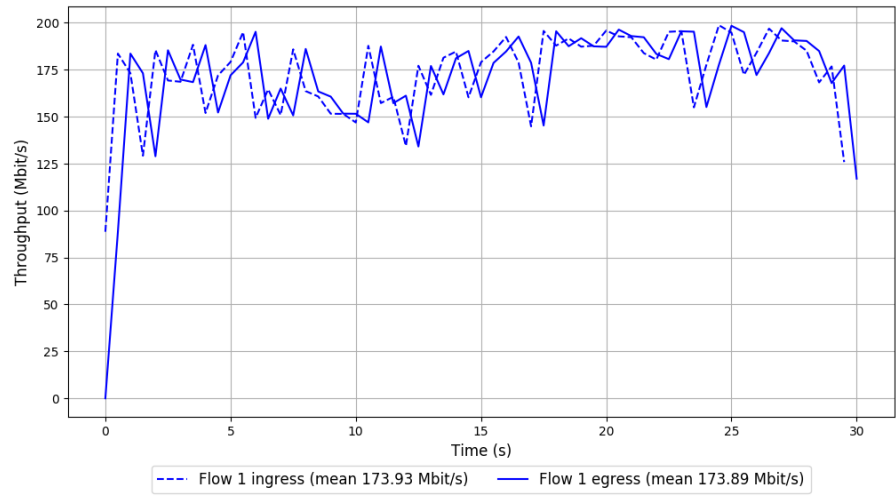
-- Flow 1:

Average throughput: 173.89 Mbit/s

95th percentile per-packet one-way delay: 0.997 ms

Loss rate: 0.09%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-07-18 02:35:44

End at: 2018-07-18 02:36:14

Local clock offset: 1.162 ms

Remote clock offset: 2.936 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.46 Mbit/s

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

Loss rate: 0.04%

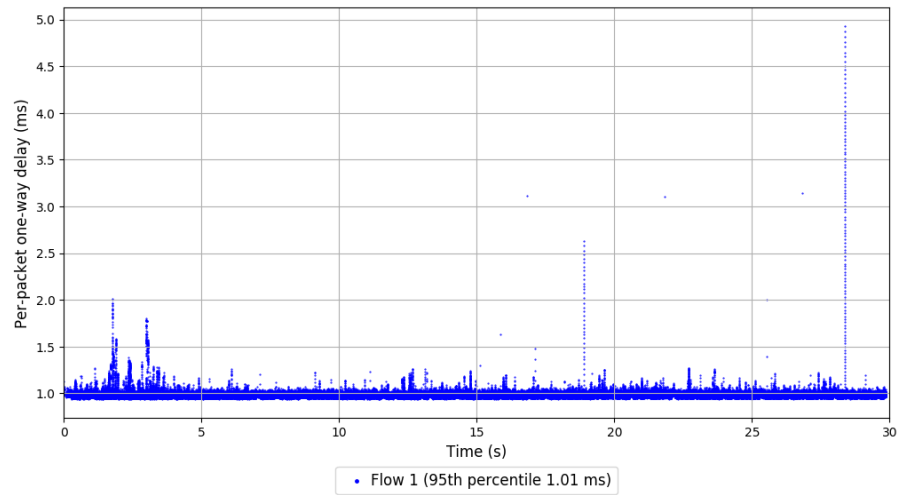
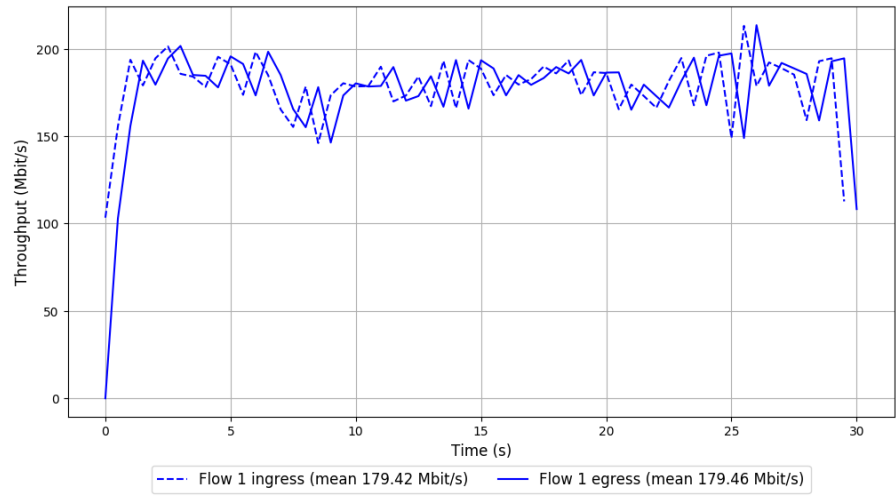
-- Flow 1:

Average throughput: 179.46 Mbit/s

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

Loss rate: 0.04%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-07-18 03:01:38

End at: 2018-07-18 03:02:08

Local clock offset: 0.831 ms

Remote clock offset: 2.703 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 68.06 Mbit/s

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

Loss rate: 0.06%

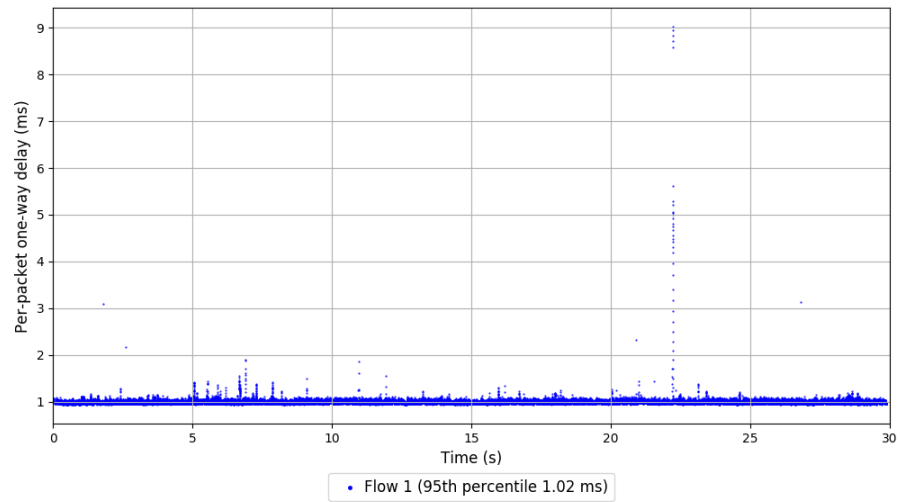
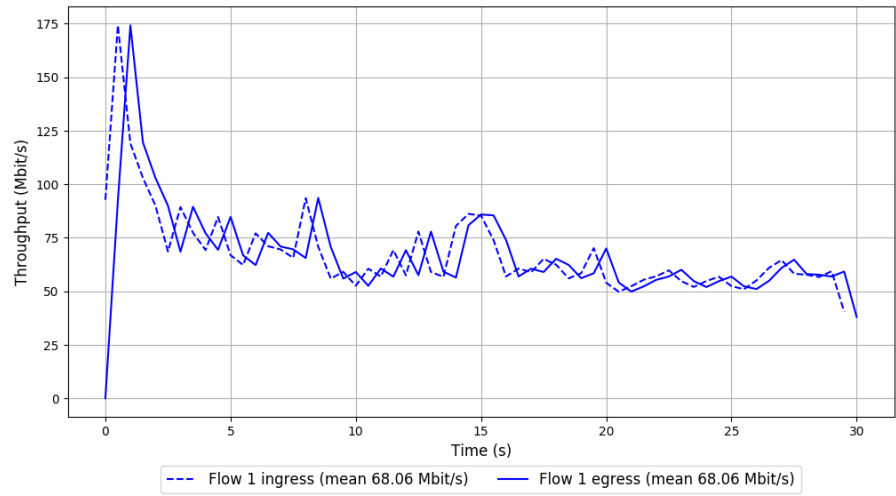
-- Flow 1:

Average throughput: 68.06 Mbit/s

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

Loss rate: 0.06%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-18 03:27:28

End at: 2018-07-18 03:27:58

Local clock offset: 0.397 ms

Remote clock offset: 2.699 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.19 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.08%

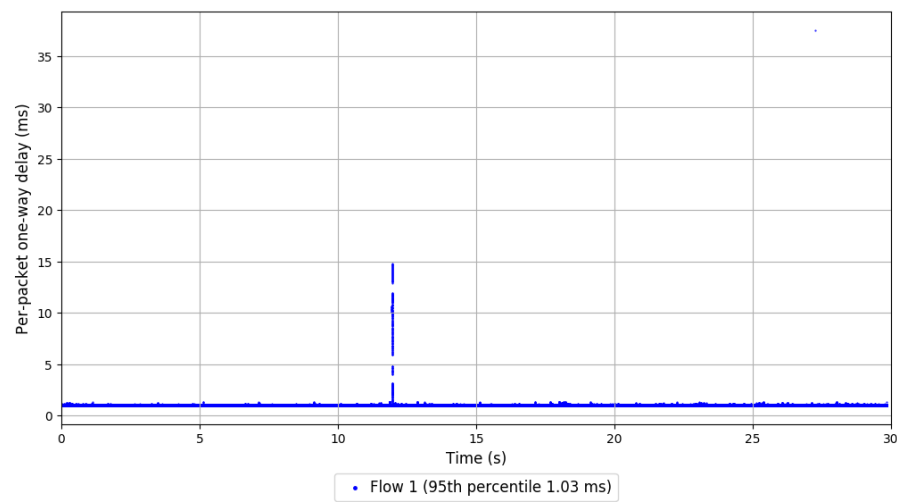
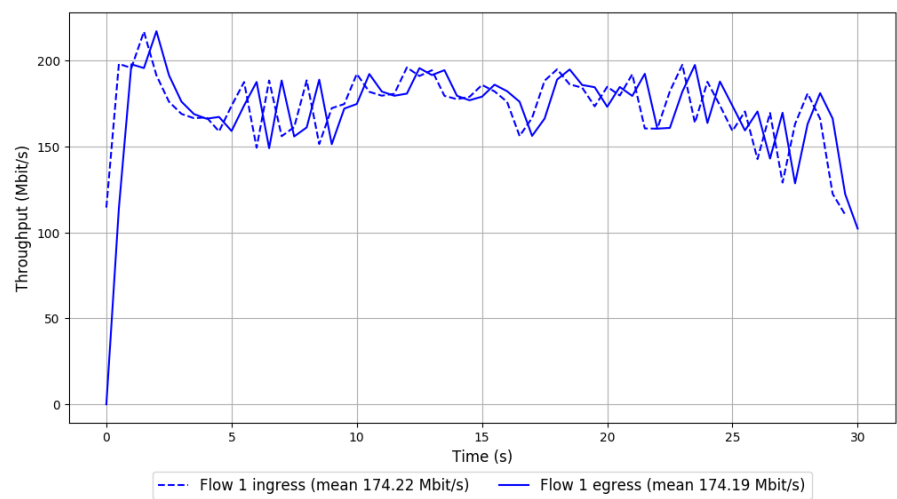
-- Flow 1:

Average throughput: 174.19 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.08%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-07-18 03:53:20

End at: 2018-07-18 03:53:50

Local clock offset: -0.05 ms

Remote clock offset: 2.645 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.41 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.08%

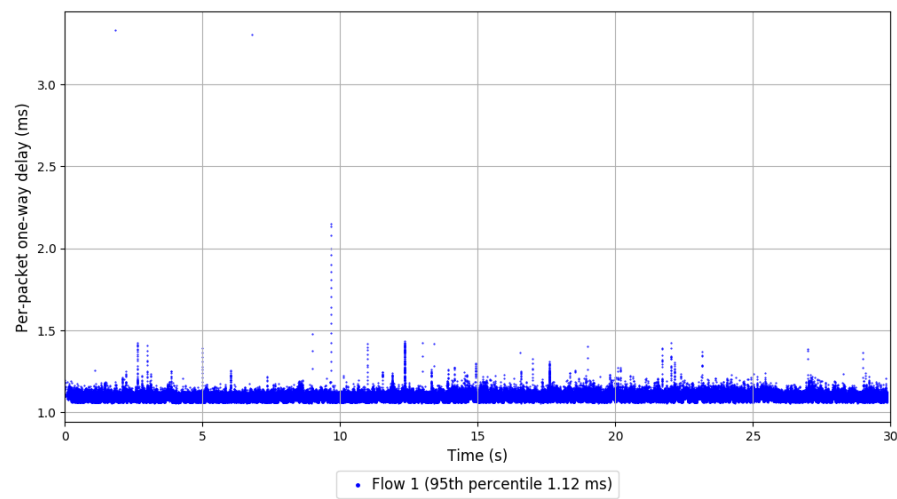
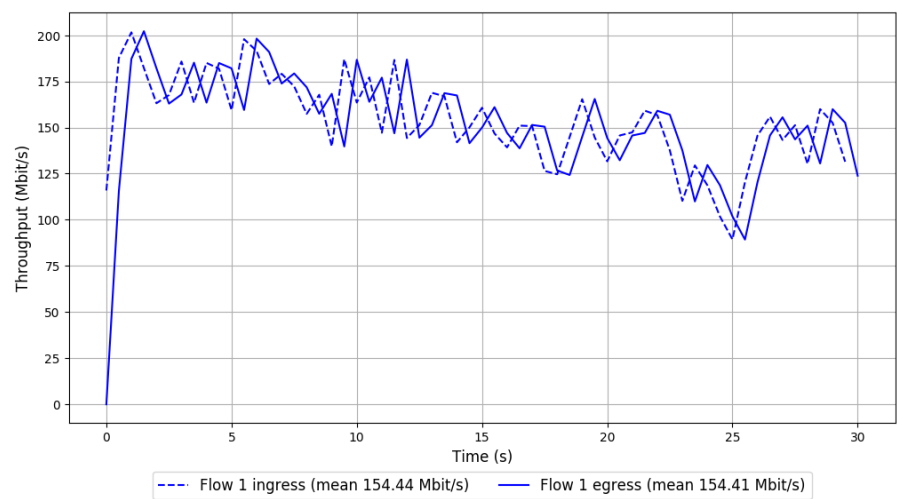
-- Flow 1:

Average throughput: 154.41 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.08%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-18 04:19:03

End at: 2018-07-18 04:19:33

Local clock offset: 0.911 ms

Remote clock offset: 2.495 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.95 Mbit/s

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

Loss rate: 0.06%

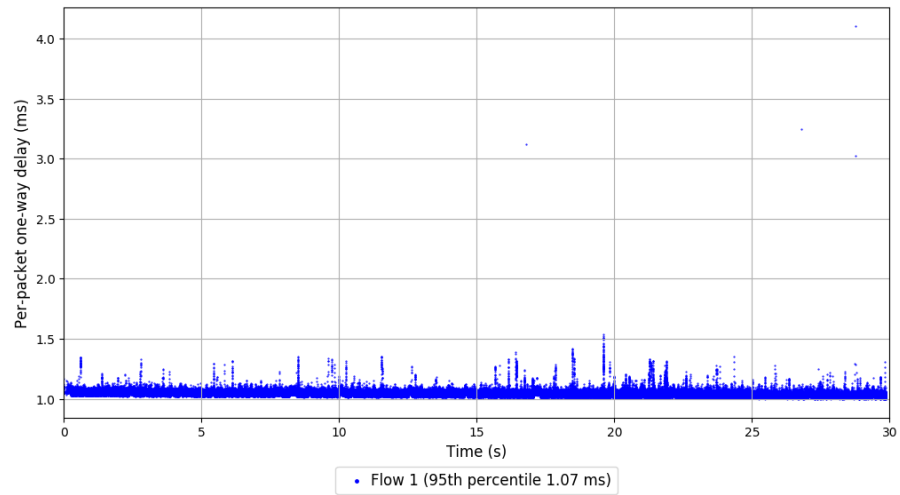
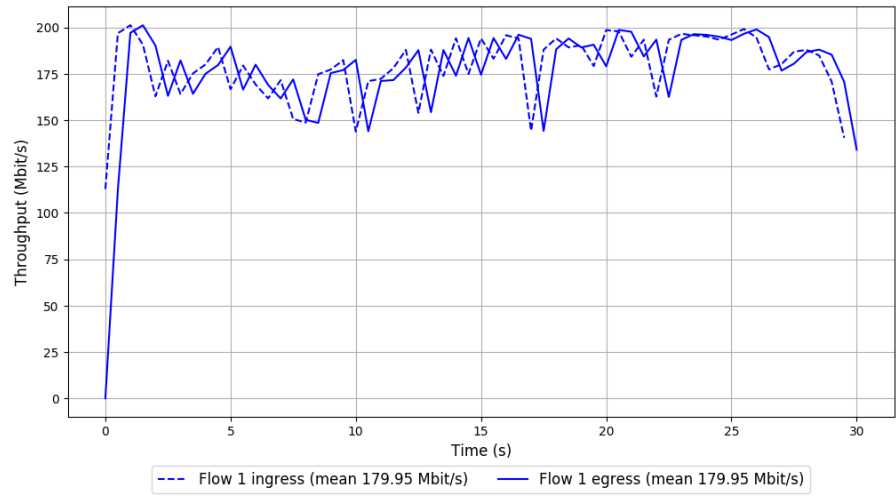
-- Flow 1:

Average throughput: 179.95 Mbit/s

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

Loss rate: 0.06%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-18 04:45:06

End at: 2018-07-18 04:45:36

Local clock offset: 1.139 ms

Remote clock offset: 2.271 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.39 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.02%

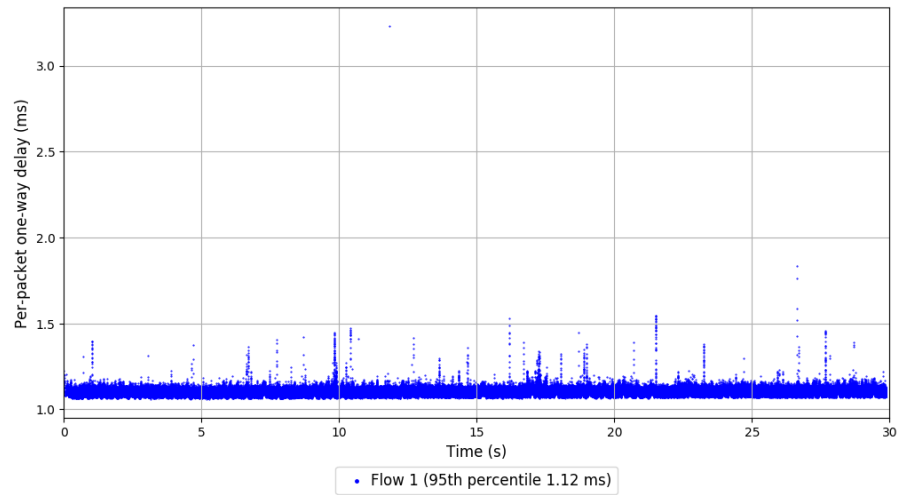
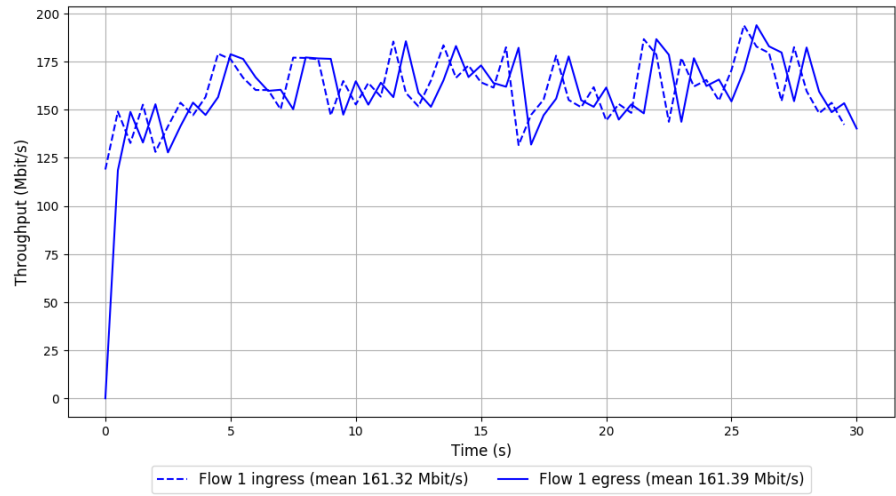
-- Flow 1:

Average throughput: 161.39 Mbit/s

95th percentile per-packet one-way delay: 1.125 ms

Loss rate: 0.02%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-18 05:11:00

End at: 2018-07-18 05:11:30

Local clock offset: 3.088 ms

Remote clock offset: 1.837 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.09 Mbit/s

95th percentile per-packet one-way delay: 0.538 ms

Loss rate: 0.02%

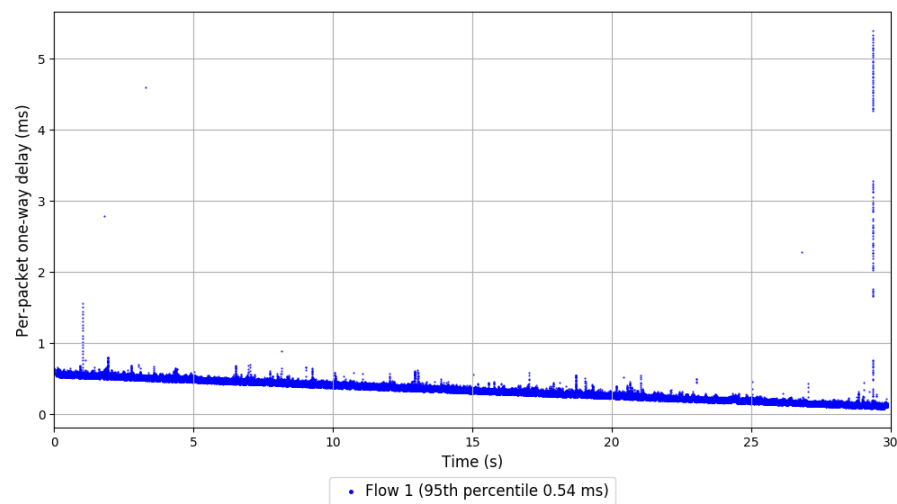
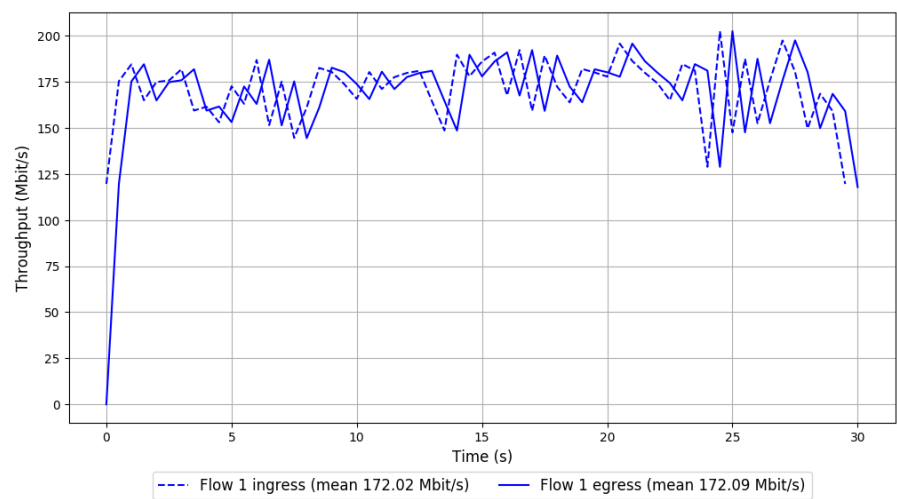
-- Flow 1:

Average throughput: 172.09 Mbit/s

95th percentile per-packet one-way delay: 0.538 ms

Loss rate: 0.02%

Run 10: Report of Indigo — Data Link



Run 1: Statistics of LEDBAT

Start at: 2018-07-18 01:13:26

End at: 2018-07-18 01:13:56

Local clock offset: 1.17 ms

Remote clock offset: 0.788 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 395.55 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.07%

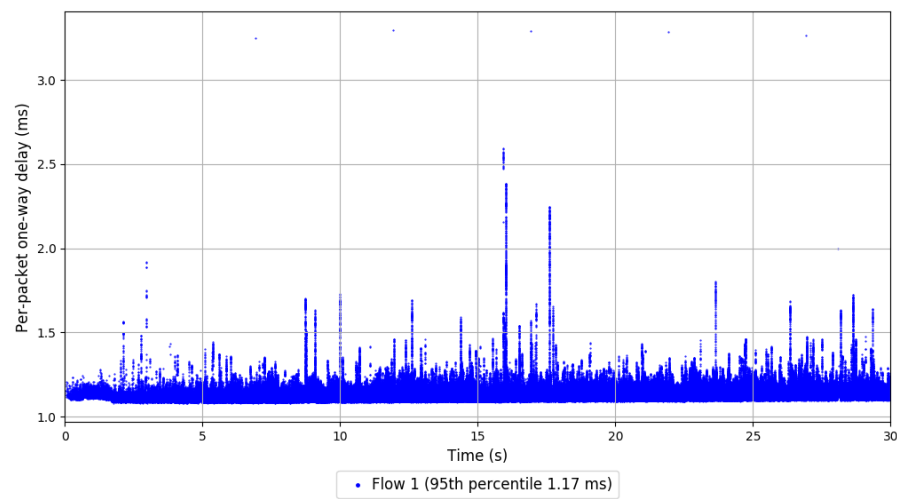
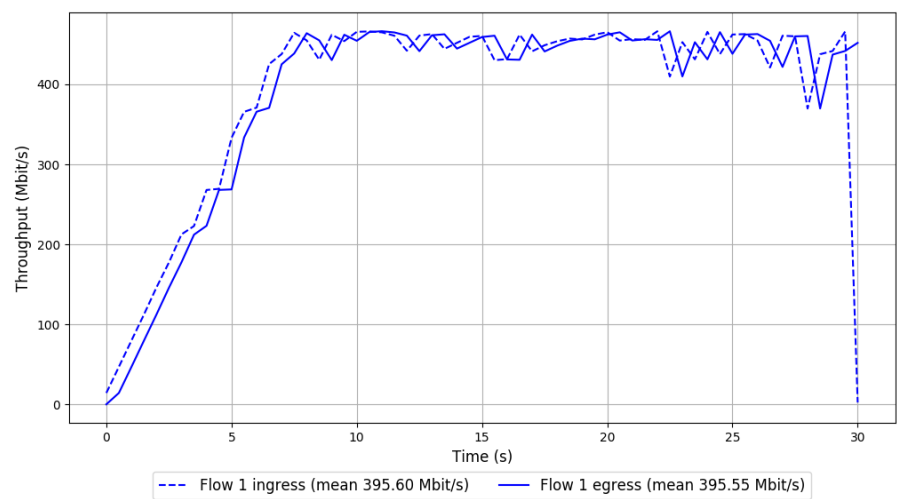
-- Flow 1:

Average throughput: 395.55 Mbit/s

95th percentile per-packet one-way delay: 1.169 ms

Loss rate: 0.07%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-07-18 01:39:21

End at: 2018-07-18 01:39:51

Local clock offset: 1.05 ms

Remote clock offset: 1.705 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.48 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.07%

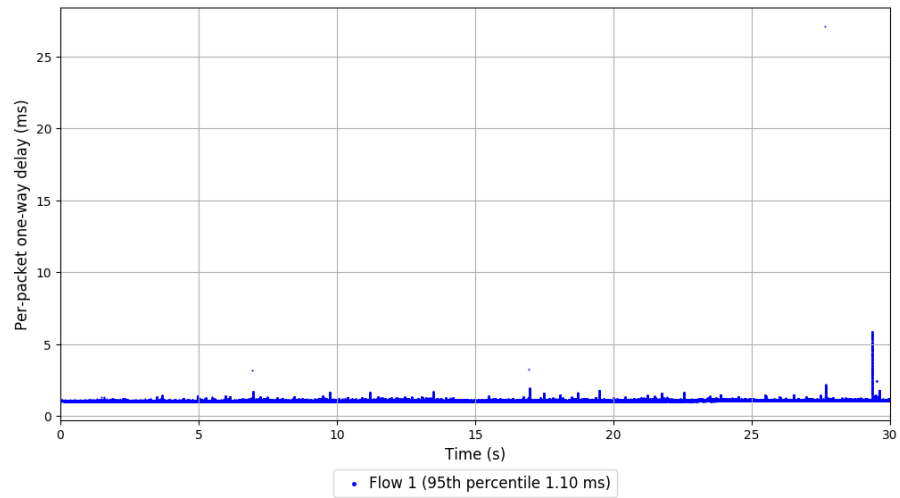
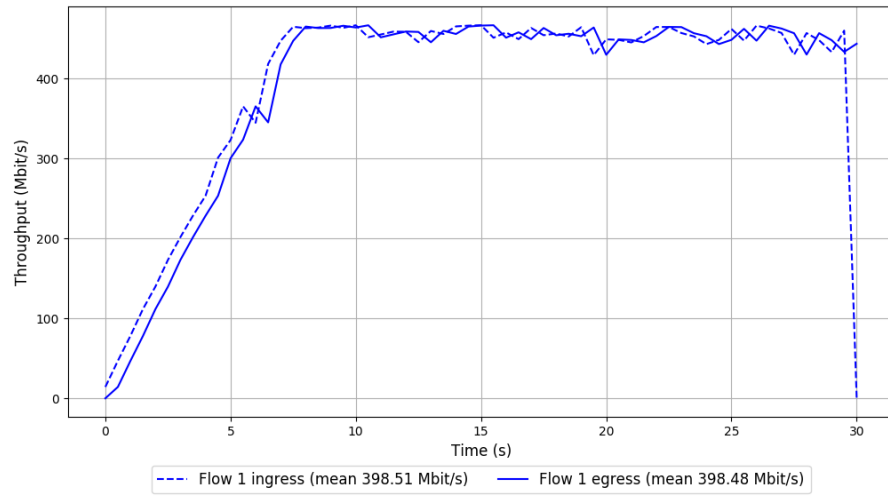
-- Flow 1:

Average throughput: 398.48 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.07%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-18 02:05:14

End at: 2018-07-18 02:05:44

Local clock offset: 0.31 ms

Remote clock offset: 2.418 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.48 Mbit/s

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

Loss rate: 0.08%

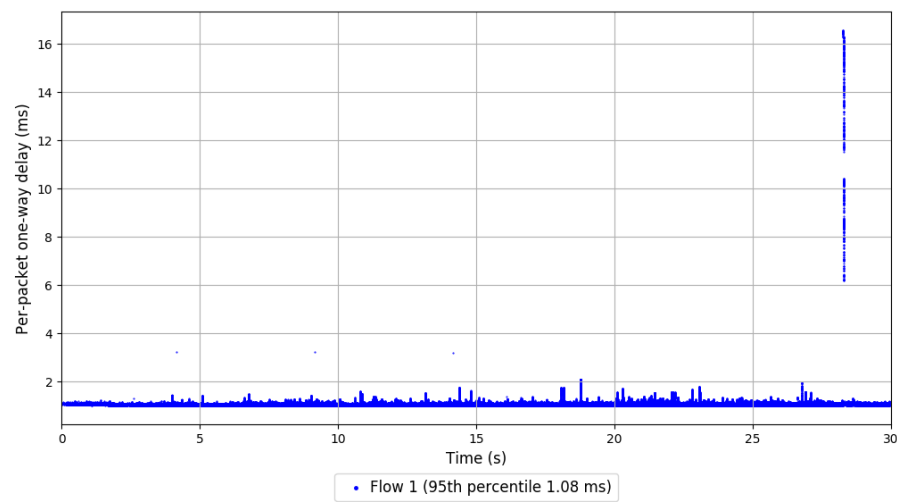
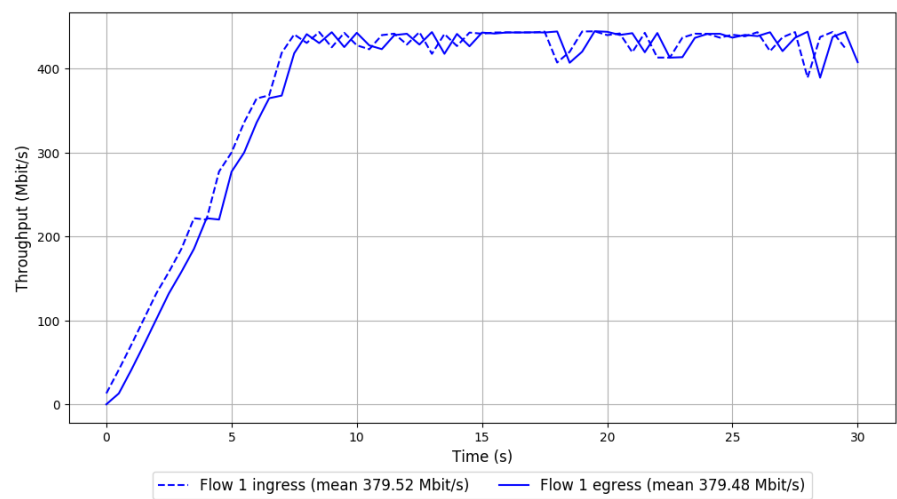
-- Flow 1:

Average throughput: 379.48 Mbit/s

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

Loss rate: 0.08%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-07-18 02:31:11

End at: 2018-07-18 02:31:41

Local clock offset: 1.128 ms

Remote clock offset: 2.87 ms

Below is generated by plot.py at 2018-07-18 06:46:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.03 Mbit/s

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

Loss rate: 0.07%

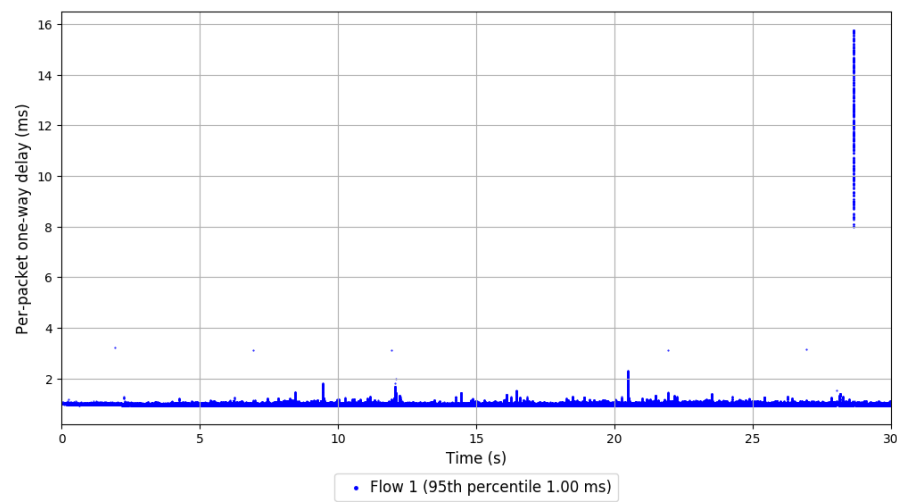
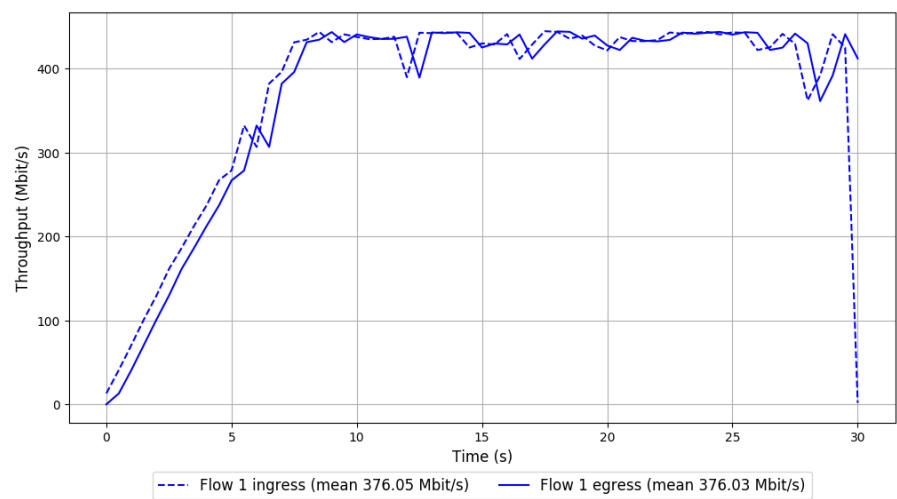
-- Flow 1:

Average throughput: 376.03 Mbit/s

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

Loss rate: 0.07%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-07-18 02:57:08

End at: 2018-07-18 02:57:38

Local clock offset: 0.948 ms

Remote clock offset: 2.747 ms

Below is generated by plot.py at 2018-07-18 06:47:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.45 Mbit/s

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

Loss rate: 0.08%

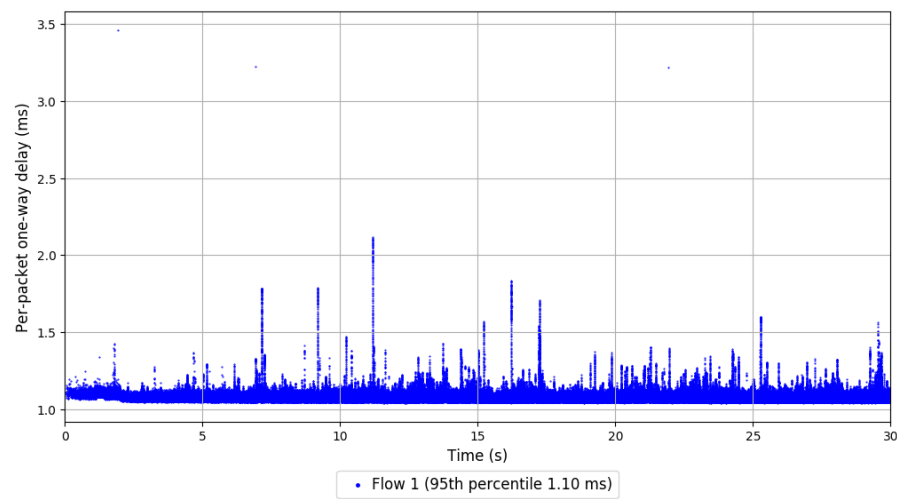
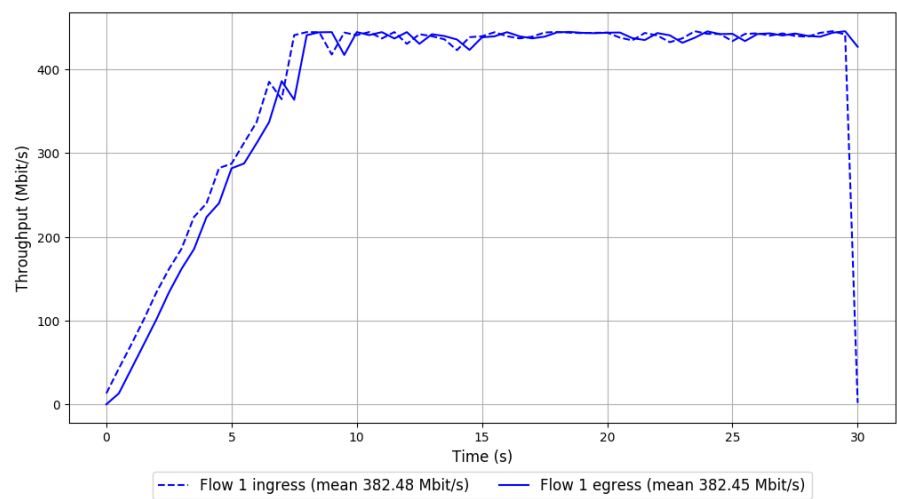
-- Flow 1:

Average throughput: 382.45 Mbit/s

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

Loss rate: 0.08%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-18 03:22:59

End at: 2018-07-18 03:23:29

Local clock offset: 0.538 ms

Remote clock offset: 2.656 ms

Below is generated by plot.py at 2018-07-18 06:48:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.30 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.08%

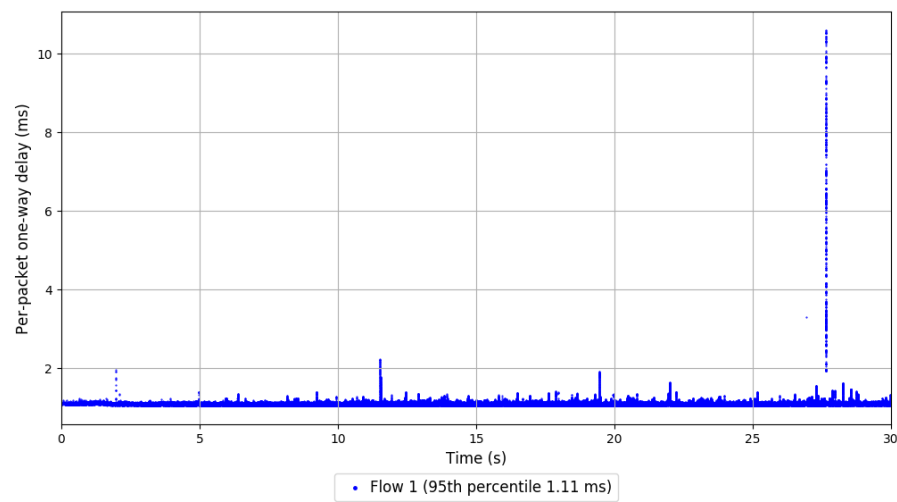
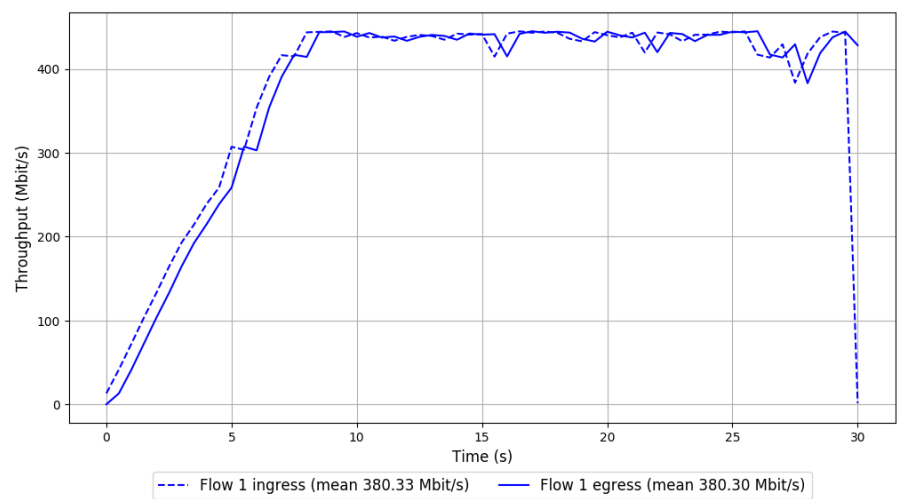
-- Flow 1:

Average throughput: 380.30 Mbit/s

95th percentile per-packet one-way delay: 1.108 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-07-18 03:48:53

End at: 2018-07-18 03:49:23

Local clock offset: -0.096 ms

Remote clock offset: 2.661 ms

Below is generated by plot.py at 2018-07-18 06:48:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.18 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.08%

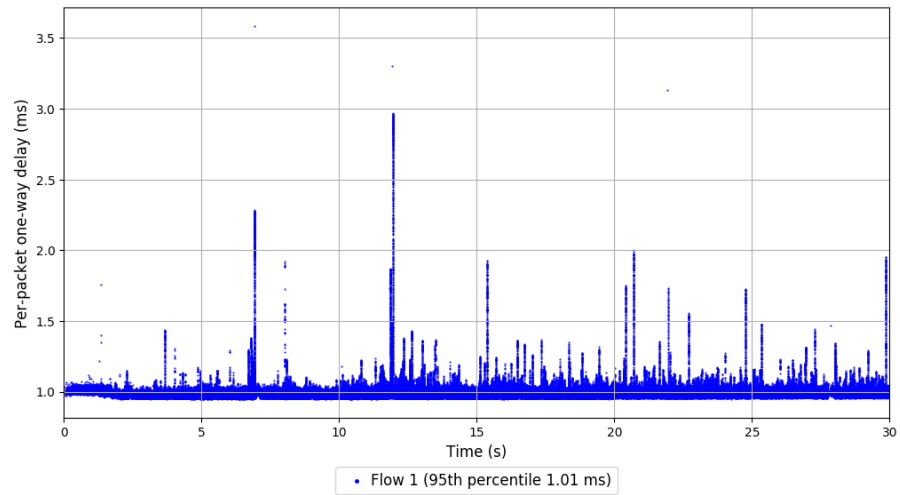
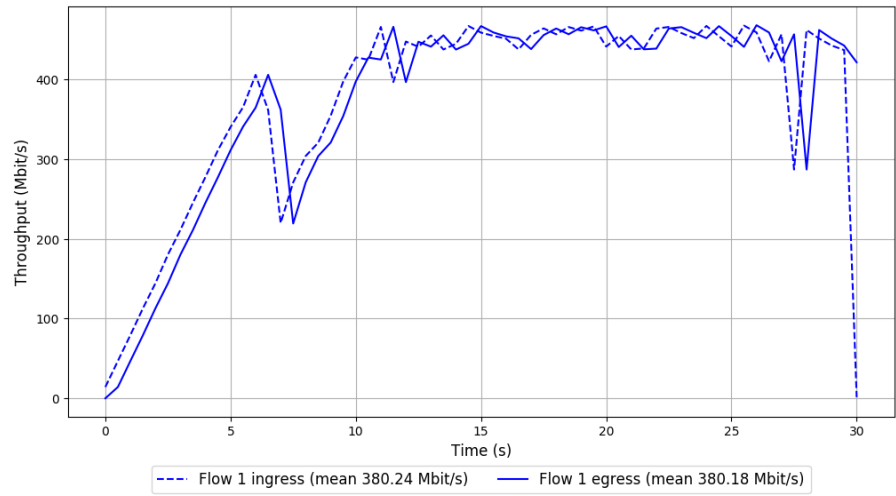
-- Flow 1:

Average throughput: 380.18 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.08%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-18 04:14:29

End at: 2018-07-18 04:14:59

Local clock offset: 0.632 ms

Remote clock offset: 2.628 ms

Below is generated by plot.py at 2018-07-18 06:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.51 Mbit/s

95th percentile per-packet one-way delay: 0.972 ms

Loss rate: 0.07%

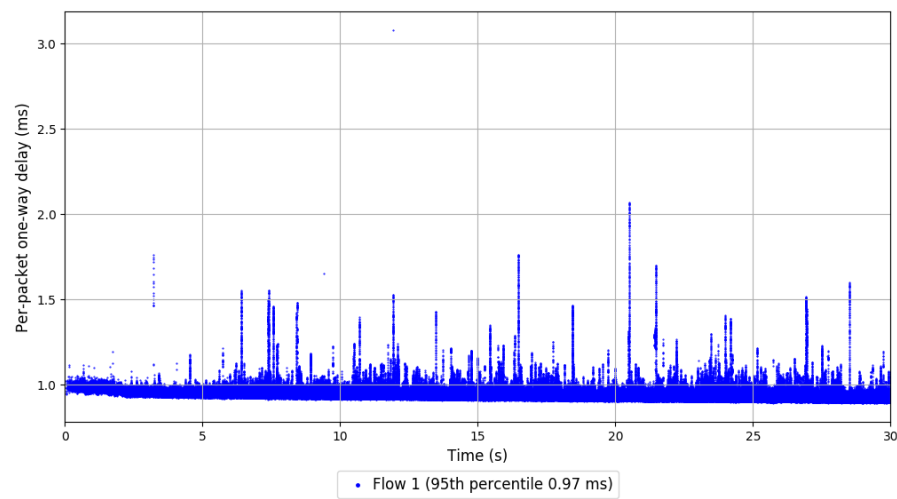
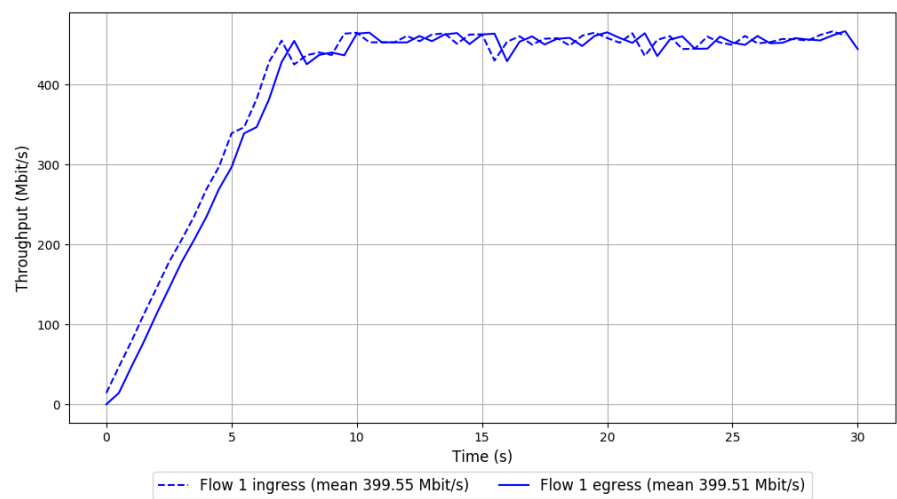
-- Flow 1:

Average throughput: 399.51 Mbit/s

95th percentile per-packet one-way delay: 0.972 ms

Loss rate: 0.07%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-18 04:40:34

End at: 2018-07-18 04:41:04

Local clock offset: 1.336 ms

Remote clock offset: 2.414 ms

Below is generated by plot.py at 2018-07-18 06:48:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.39 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

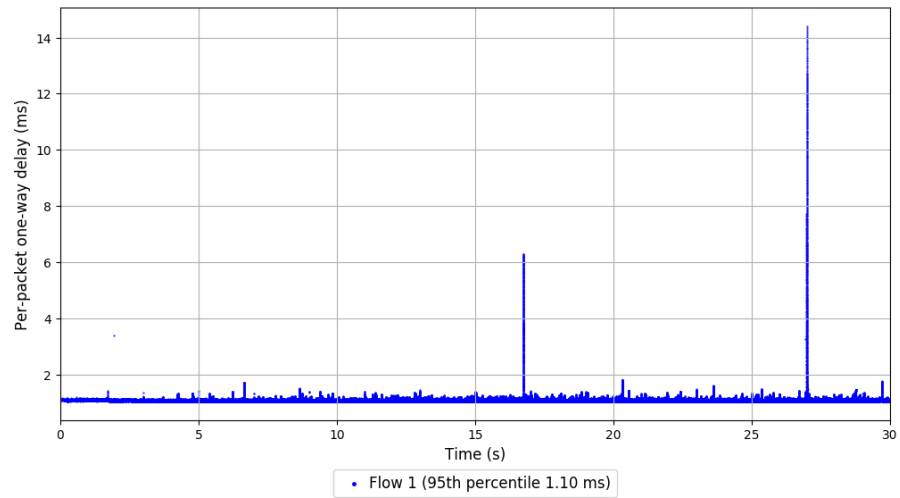
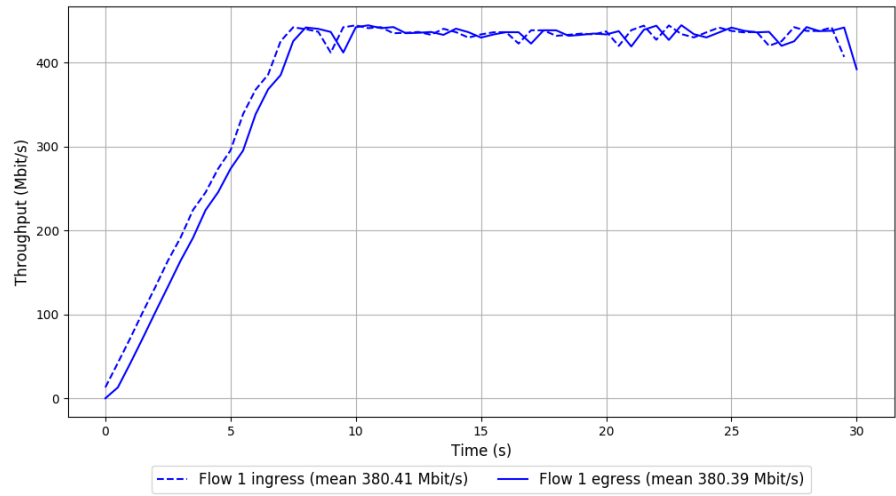
-- Flow 1:

Average throughput: 380.39 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-18 05:06:33

End at: 2018-07-18 05:07:03

Local clock offset: 0.797 ms

Remote clock offset: 1.971 ms

Below is generated by plot.py at 2018-07-18 06:49:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.60 Mbit/s

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

Loss rate: 0.07%

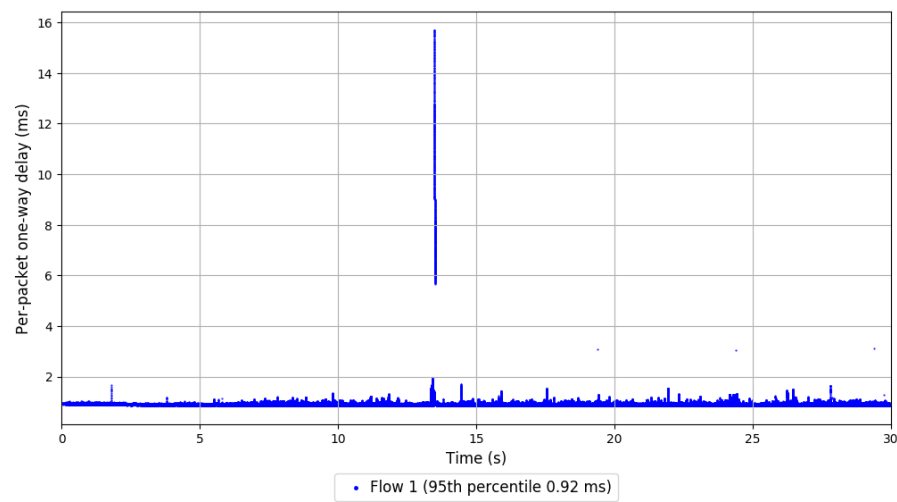
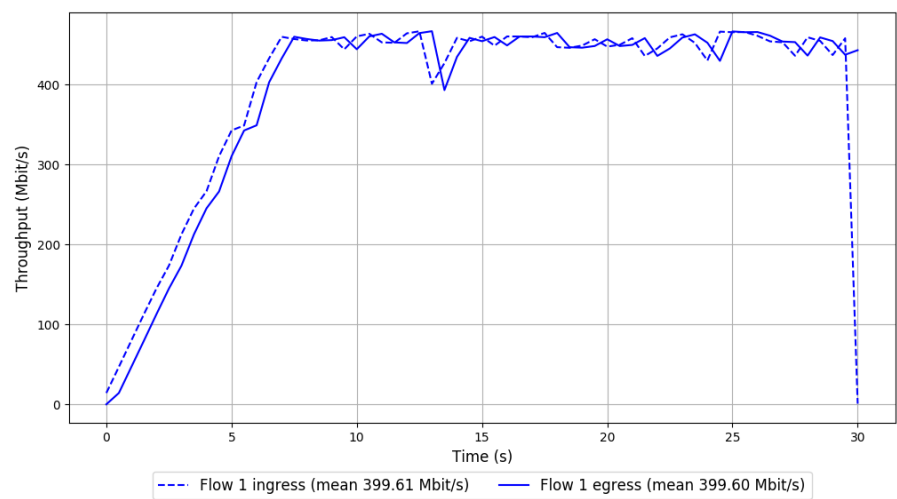
-- Flow 1:

Average throughput: 399.60 Mbit/s

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

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link

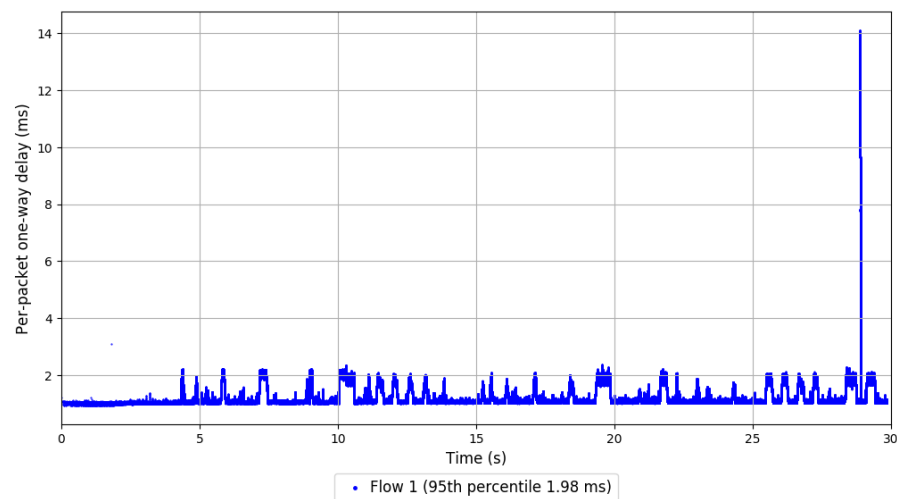
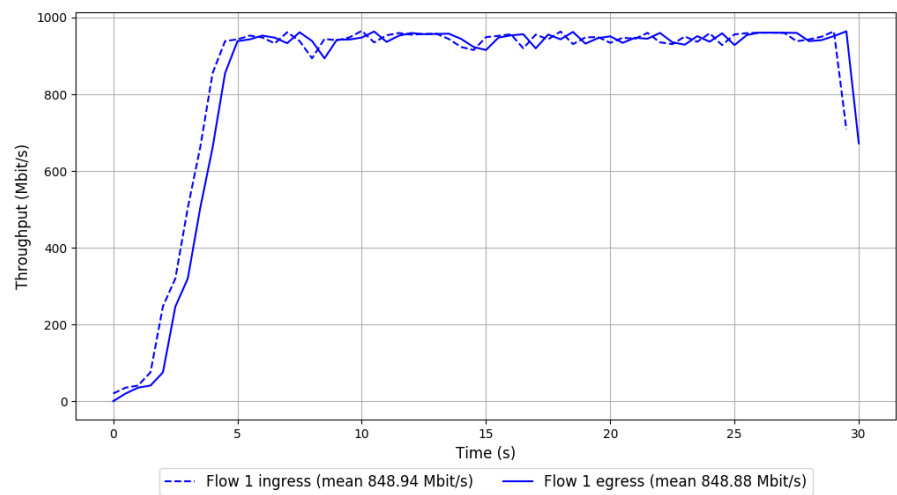


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-07-18 01:28:28
End at: 2018-07-18 01:28:58
Local clock offset: 1.107 ms
Remote clock offset: 1.348 ms

# Below is generated by plot.py at 2018-07-18 06:56:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 848.88 Mbit/s
95th percentile per-packet one-way delay: 1.984 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 848.88 Mbit/s
95th percentile per-packet one-way delay: 1.984 ms
Loss rate: 0.08%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-18 01:54:23

End at: 2018-07-18 01:54:53

Local clock offset: 0.482 ms

Remote clock offset: 2.138 ms

Below is generated by plot.py at 2018-07-18 06:57:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.72 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.07%

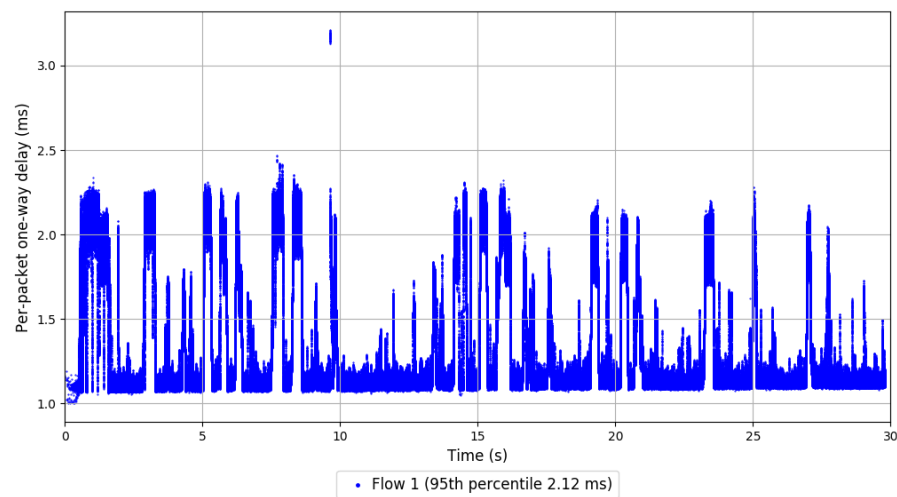
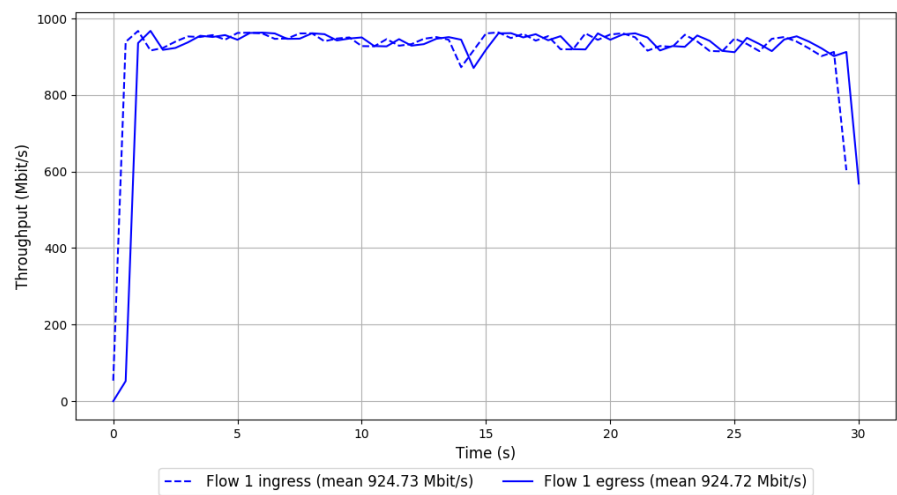
-- Flow 1:

Average throughput: 924.72 Mbit/s

95th percentile per-packet one-way delay: 2.123 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-18 02:20:14

End at: 2018-07-18 02:20:44

Local clock offset: 0.914 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2018-07-18 06:58:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.85 Mbit/s

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

Loss rate: 0.07%

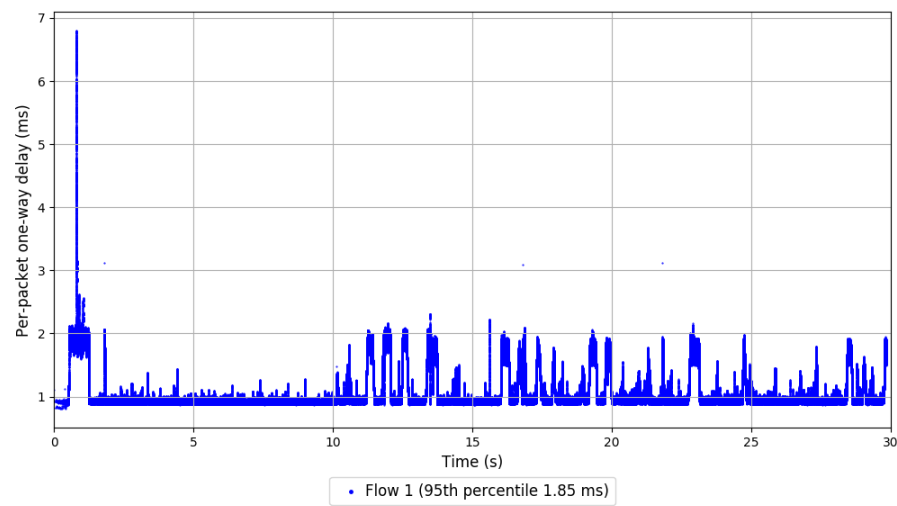
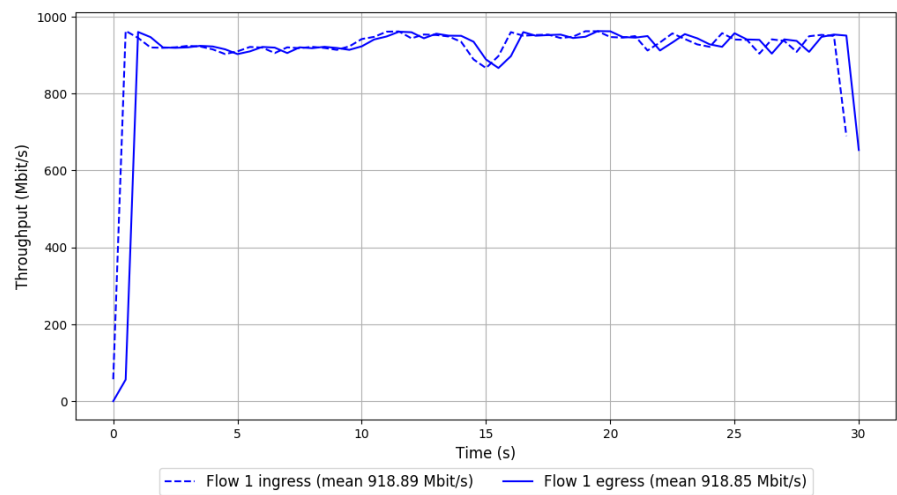
-- Flow 1:

Average throughput: 918.85 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-18 02:46:15

End at: 2018-07-18 02:46:45

Local clock offset: 0.986 ms

Remote clock offset: 2.956 ms

Below is generated by plot.py at 2018-07-18 06:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.34 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.07%

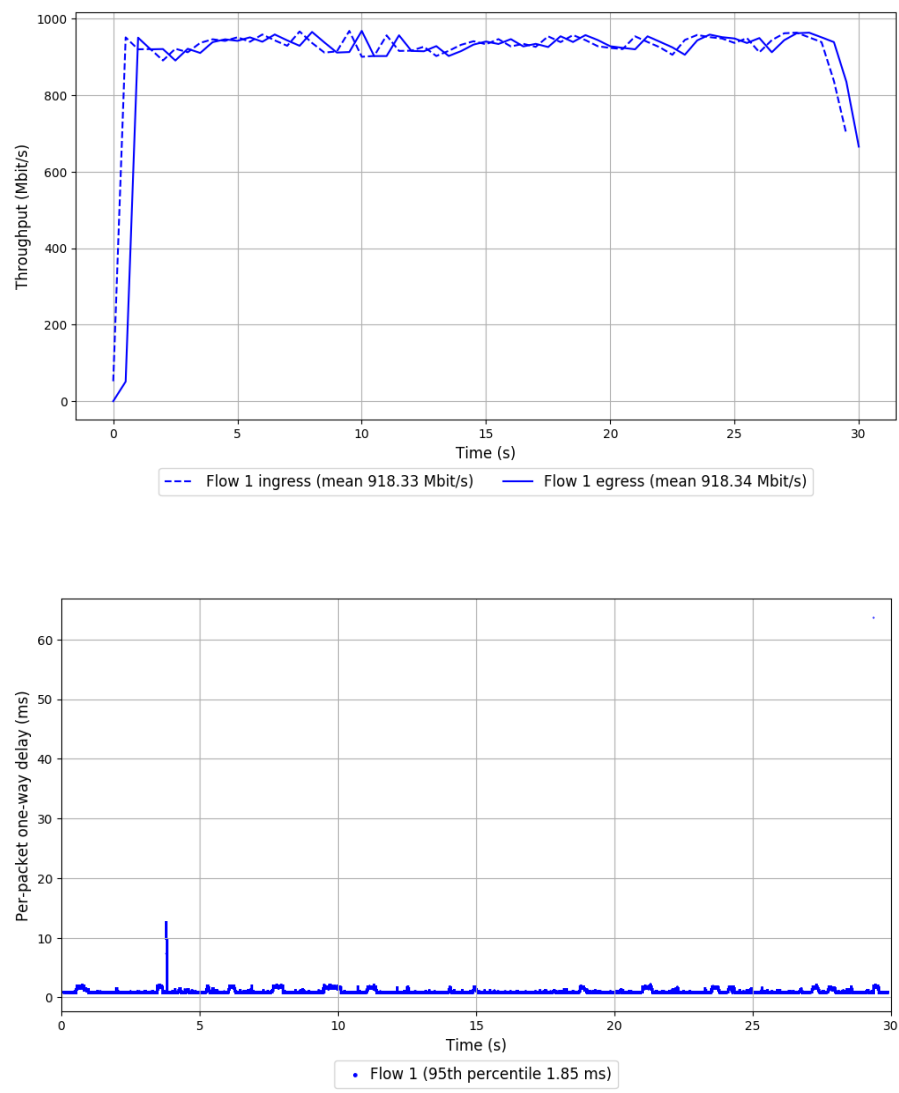
-- Flow 1:

Average throughput: 918.34 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.07%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-07-18 03:12:03

End at: 2018-07-18 03:12:33

Local clock offset: 0.759 ms

Remote clock offset: 2.614 ms

Below is generated by plot.py at 2018-07-18 06:58:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.59 Mbit/s

95th percentile per-packet one-way delay: 2.029 ms

Loss rate: 0.07%

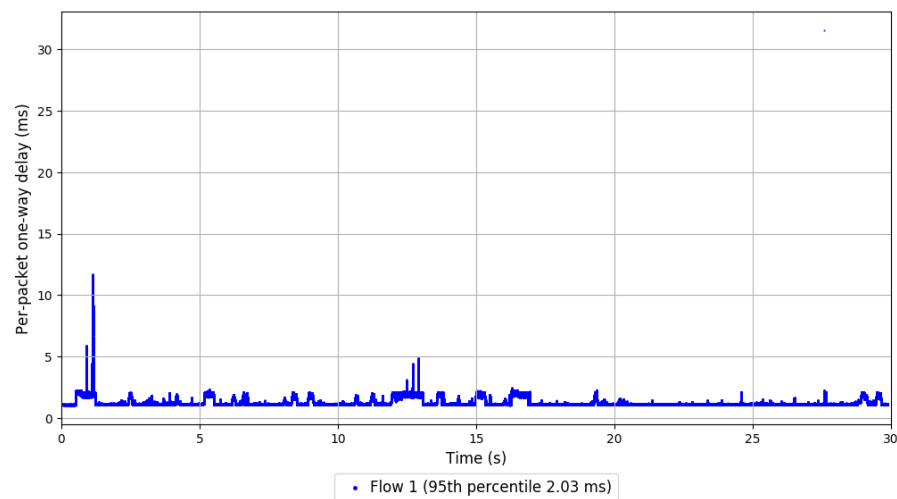
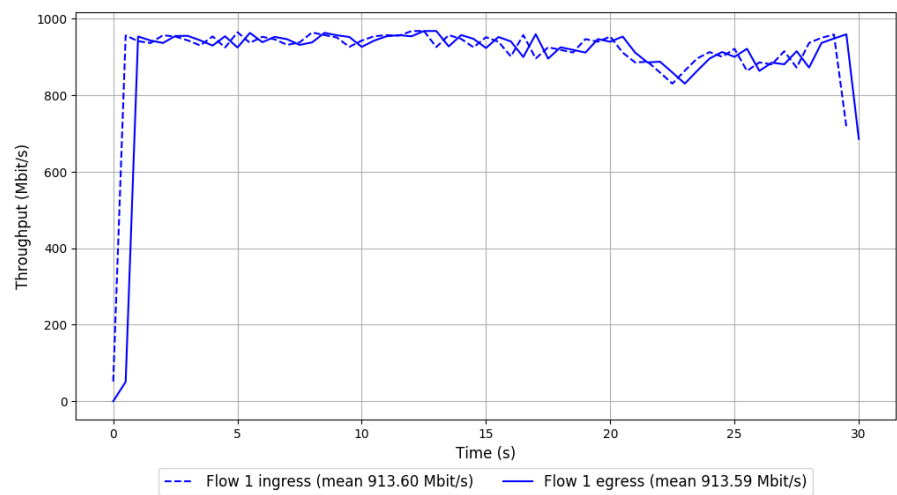
-- Flow 1:

Average throughput: 913.59 Mbit/s

95th percentile per-packet one-way delay: 2.029 ms

Loss rate: 0.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-18 03:37:56

End at: 2018-07-18 03:38:26

Local clock offset: 0.184 ms

Remote clock offset: 2.691 ms

Below is generated by plot.py at 2018-07-18 06:58:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.88 Mbit/s

95th percentile per-packet one-way delay: 2.064 ms

Loss rate: 0.07%

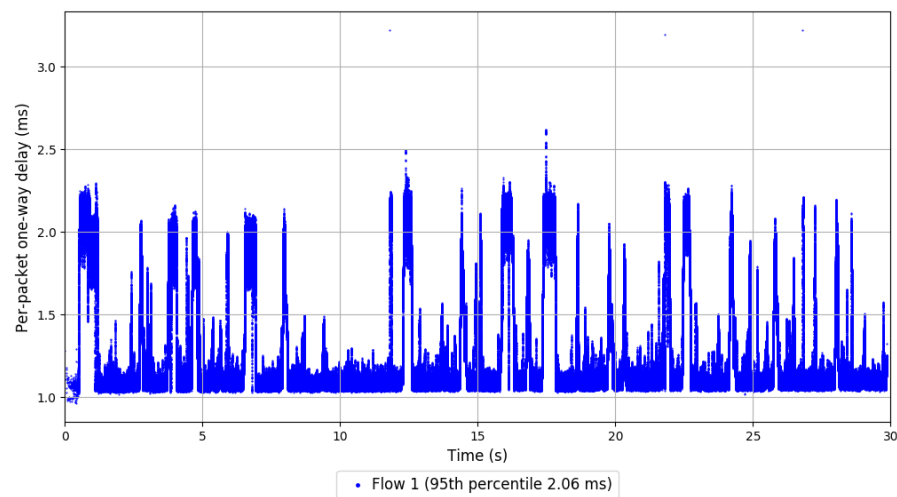
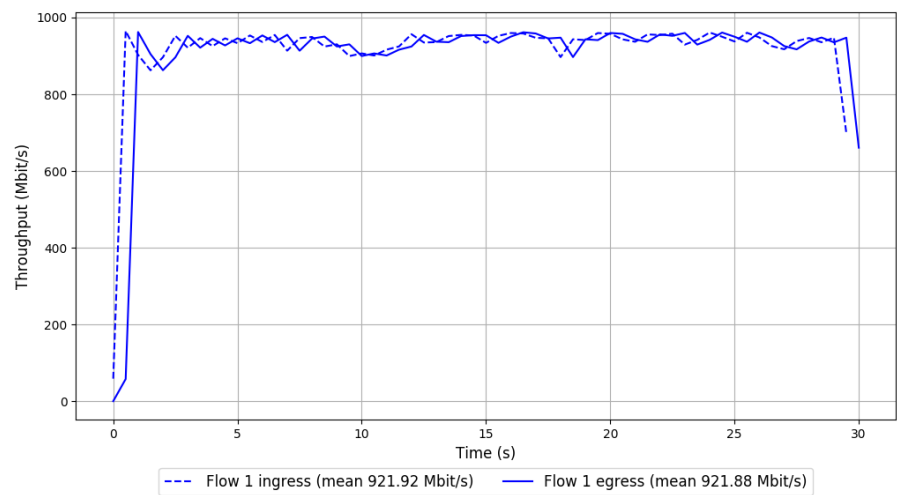
-- Flow 1:

Average throughput: 921.88 Mbit/s

95th percentile per-packet one-way delay: 2.064 ms

Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-18 04:03:49

End at: 2018-07-18 04:04:19

Local clock offset: -0.016 ms

Remote clock offset: 2.672 ms

Below is generated by plot.py at 2018-07-18 06:58:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 914.60 Mbit/s

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

Loss rate: 0.07%

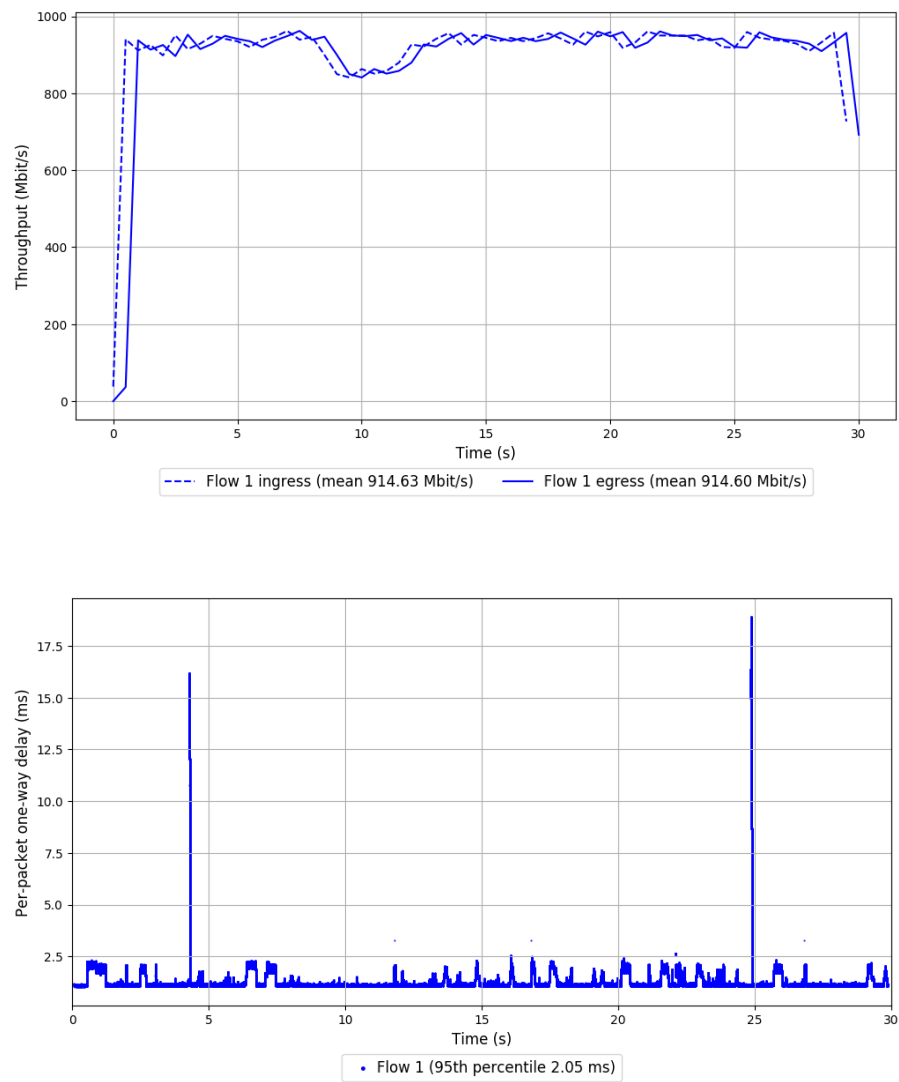
-- Flow 1:

Average throughput: 914.60 Mbit/s

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

Loss rate: 0.07%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-18 04:29:36

End at: 2018-07-18 04:30:06

Local clock offset: 1.228 ms

Remote clock offset: 2.409 ms

Below is generated by plot.py at 2018-07-18 06:59:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.69 Mbit/s

95th percentile per-packet one-way delay: 2.126 ms

Loss rate: 0.07%

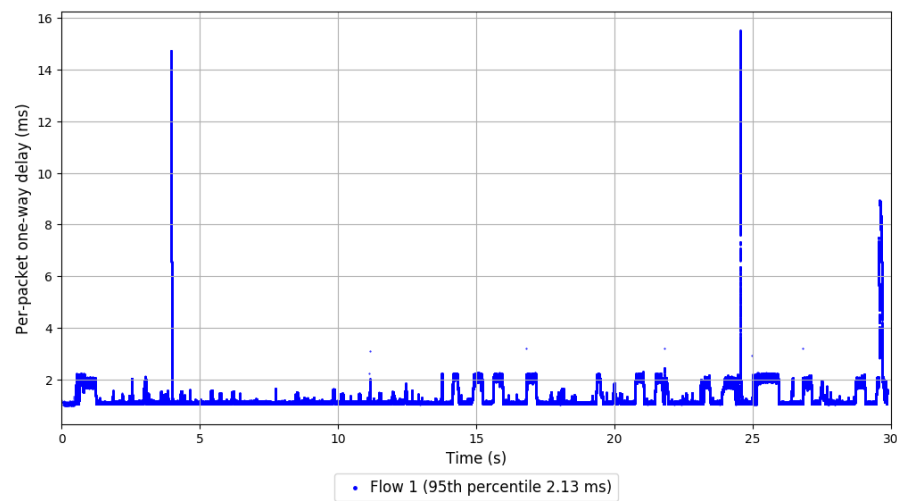
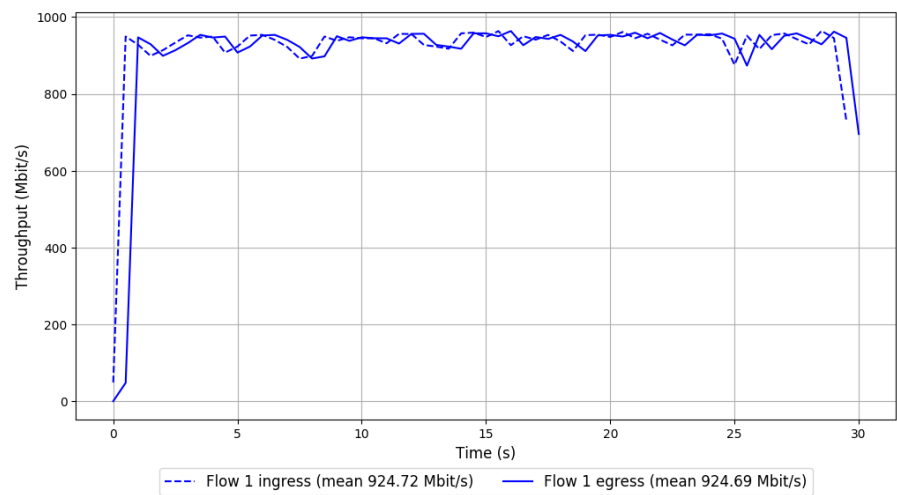
-- Flow 1:

Average throughput: 924.69 Mbit/s

95th percentile per-packet one-way delay: 2.126 ms

Loss rate: 0.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-18 04:55:36

End at: 2018-07-18 04:56:07

Local clock offset: 0.904 ms

Remote clock offset: 2.115 ms

Below is generated by plot.py at 2018-07-18 07:06:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.36 Mbit/s

95th percentile per-packet one-way delay: 1.976 ms

Loss rate: 0.06%

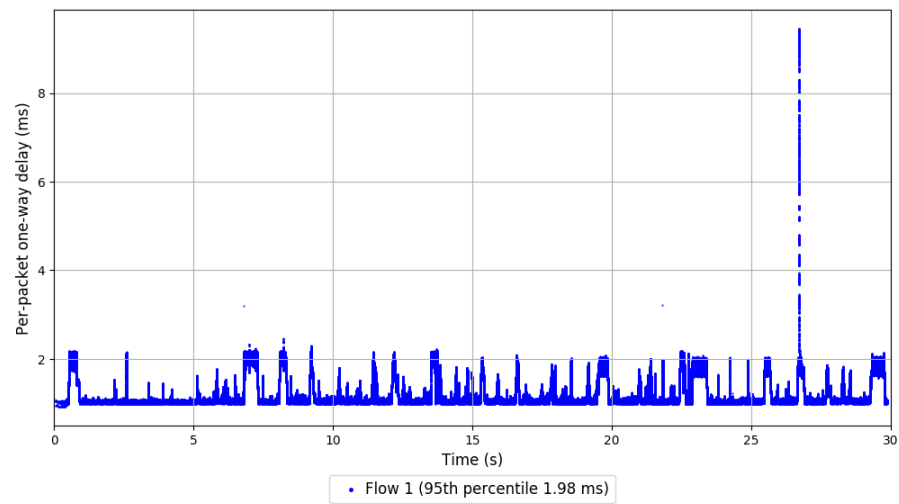
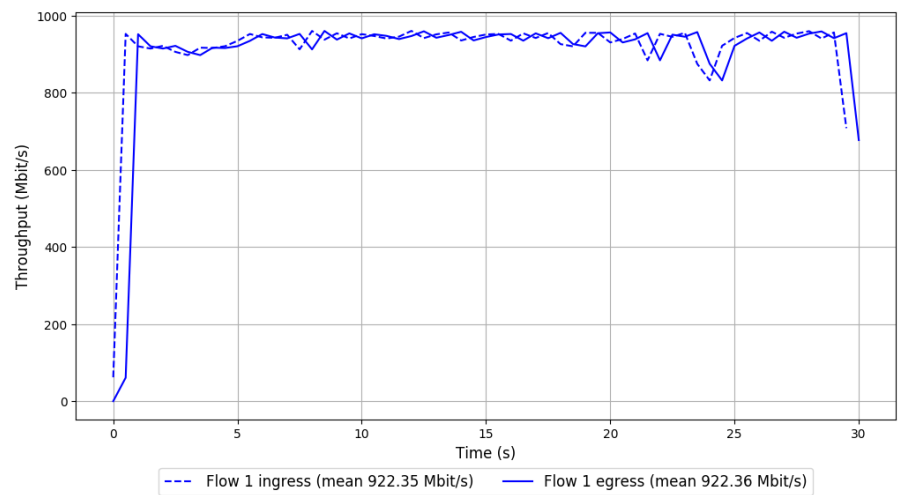
-- Flow 1:

Average throughput: 922.36 Mbit/s

95th percentile per-packet one-way delay: 1.976 ms

Loss rate: 0.06%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-18 05:21:31

End at: 2018-07-18 05:22:01

Local clock offset: 9.469 ms

Remote clock offset: 1.699 ms

Below is generated by plot.py at 2018-07-18 07:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.30 Mbit/s

95th percentile per-packet one-way delay: 1.819 ms

Loss rate: 0.07%

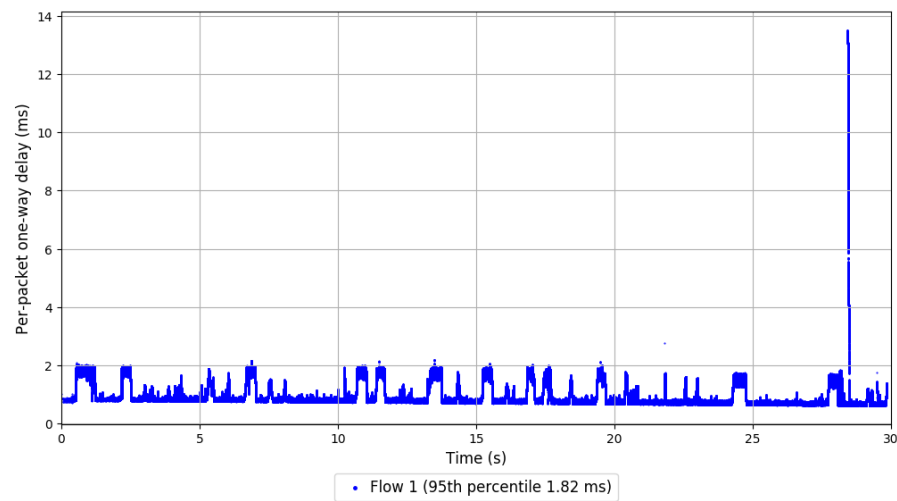
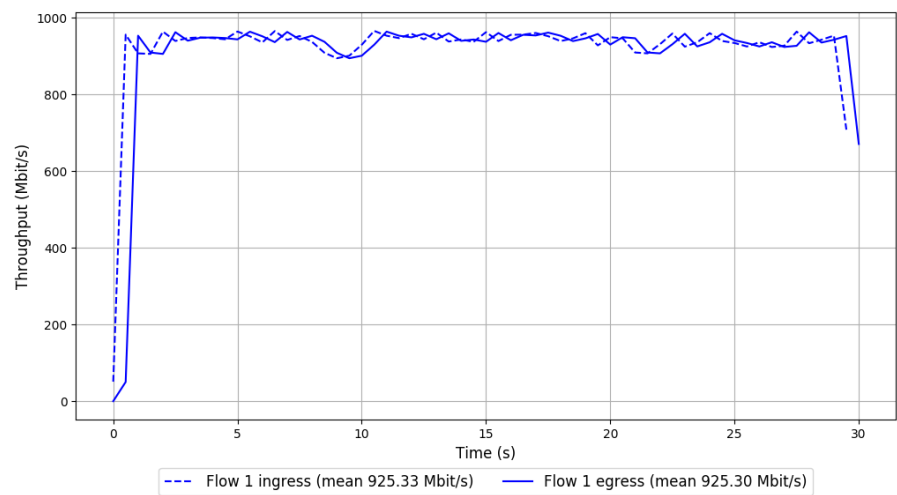
-- Flow 1:

Average throughput: 925.30 Mbit/s

95th percentile per-packet one-way delay: 1.819 ms

Loss rate: 0.07%

Run 10: Report of PCC-Allegro — Data Link

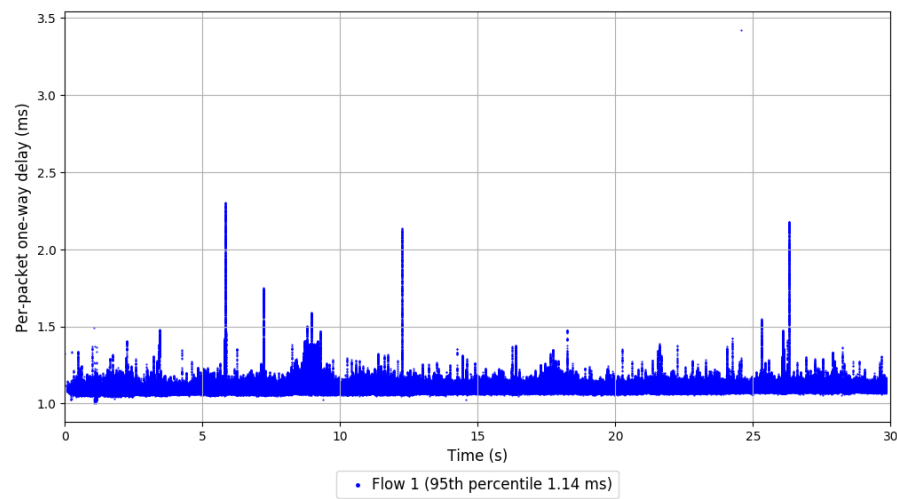
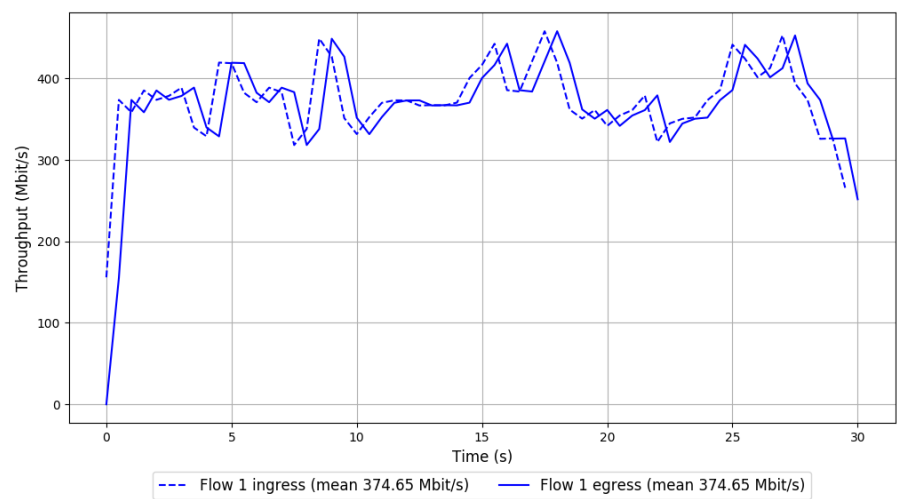


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-18 01:24:10
End at: 2018-07-18 01:24:40
Local clock offset: 1.128 ms
Remote clock offset: 1.154 ms

# Below is generated by plot.py at 2018-07-18 07:07:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 374.65 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 374.65 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.07%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-18 01:50:05

End at: 2018-07-18 01:50:35

Local clock offset: 0.581 ms

Remote clock offset: 2.03 ms

Below is generated by plot.py at 2018-07-18 07:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 371.60 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.07%

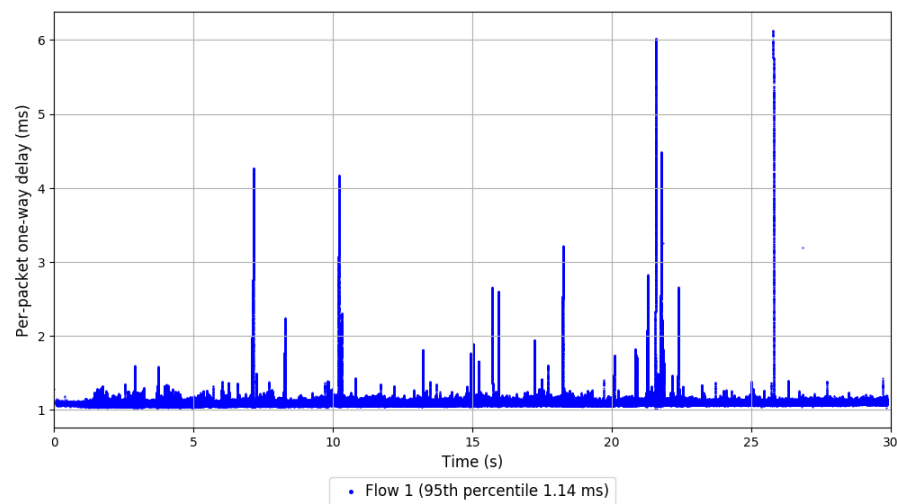
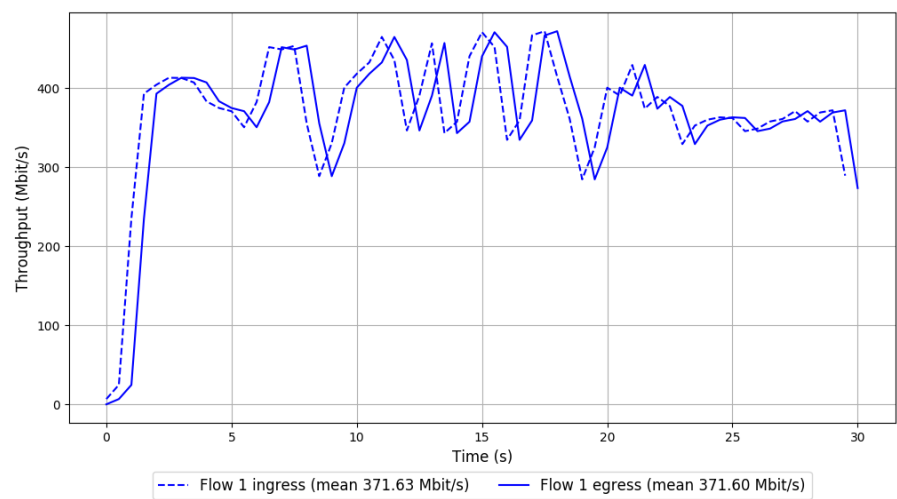
-- Flow 1:

Average throughput: 371.60 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.07%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-18 02:15:57

End at: 2018-07-18 02:16:27

Local clock offset: 0.823 ms

Remote clock offset: 2.544 ms

Below is generated by plot.py at 2018-07-18 07:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 360.22 Mbit/s

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

Loss rate: 0.07%

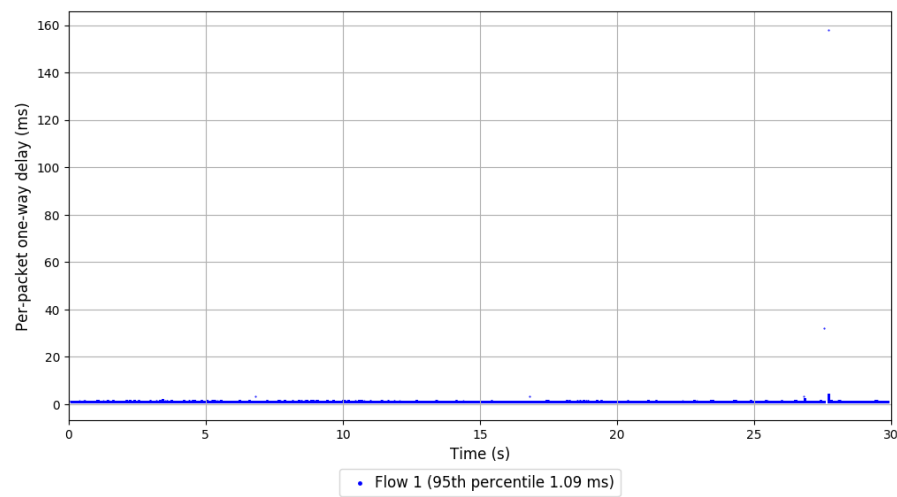
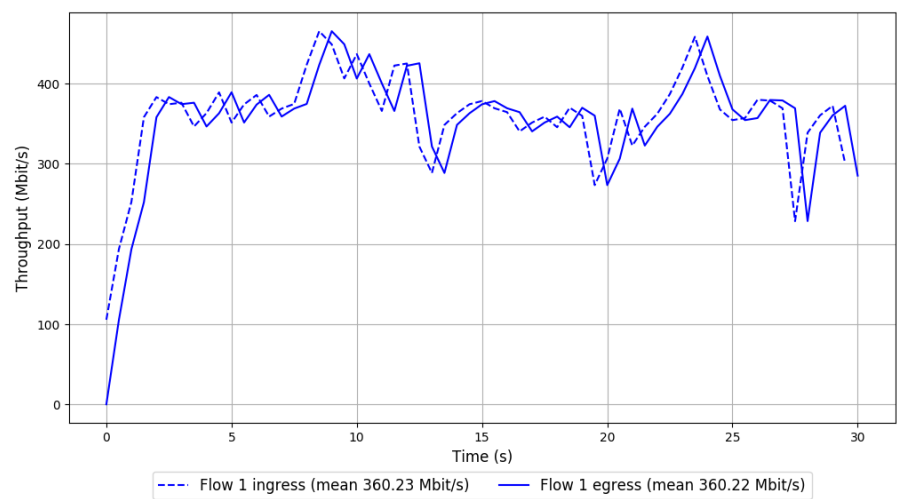
-- Flow 1:

Average throughput: 360.22 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-07-18 02:41:58

End at: 2018-07-18 02:42:28

Local clock offset: 1.191 ms

Remote clock offset: 3.01 ms

Below is generated by plot.py at 2018-07-18 07:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 377.72 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.04%

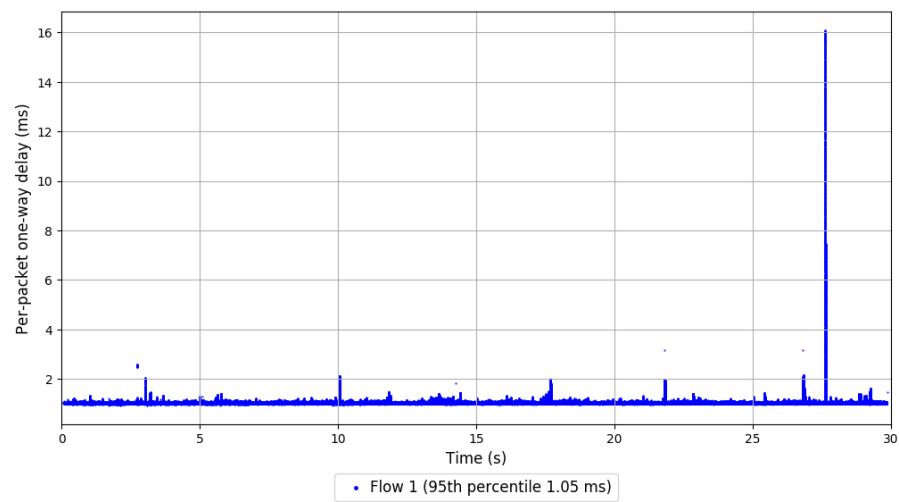
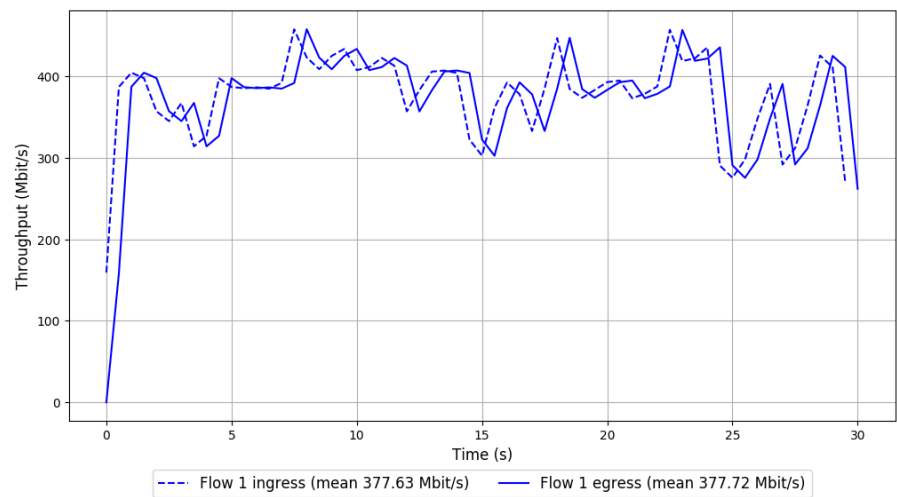
-- Flow 1:

Average throughput: 377.72 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.04%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-18 03:07:47

End at: 2018-07-18 03:08:17

Local clock offset: 0.873 ms

Remote clock offset: 2.619 ms

Below is generated by plot.py at 2018-07-18 07:07:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.09 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.06%

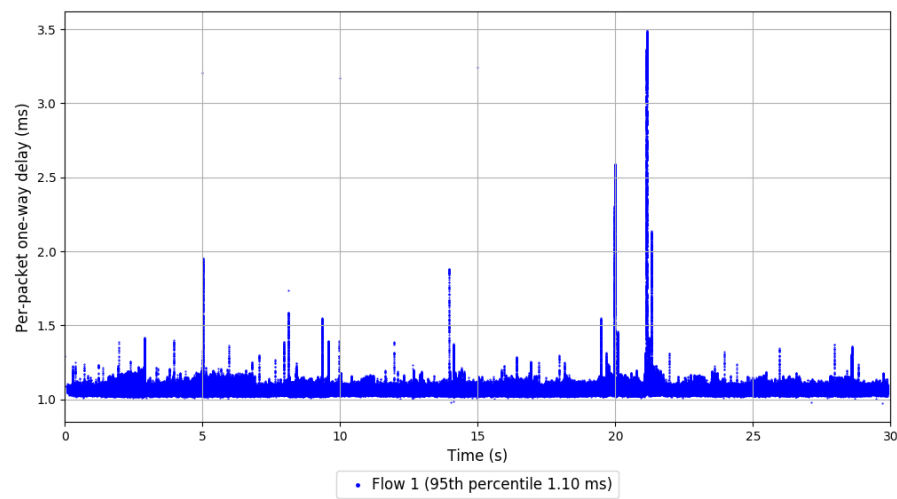
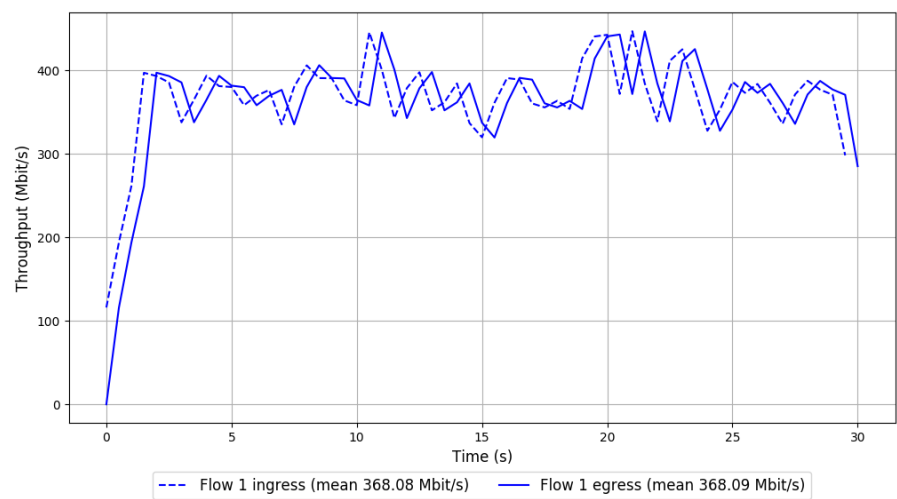
-- Flow 1:

Average throughput: 368.09 Mbit/s

95th percentile per-packet one-way delay: 1.096 ms

Loss rate: 0.06%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-18 03:33:39

End at: 2018-07-18 03:34:09

Local clock offset: 0.257 ms

Remote clock offset: 2.703 ms

Below is generated by plot.py at 2018-07-18 07:08:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.78 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.07%

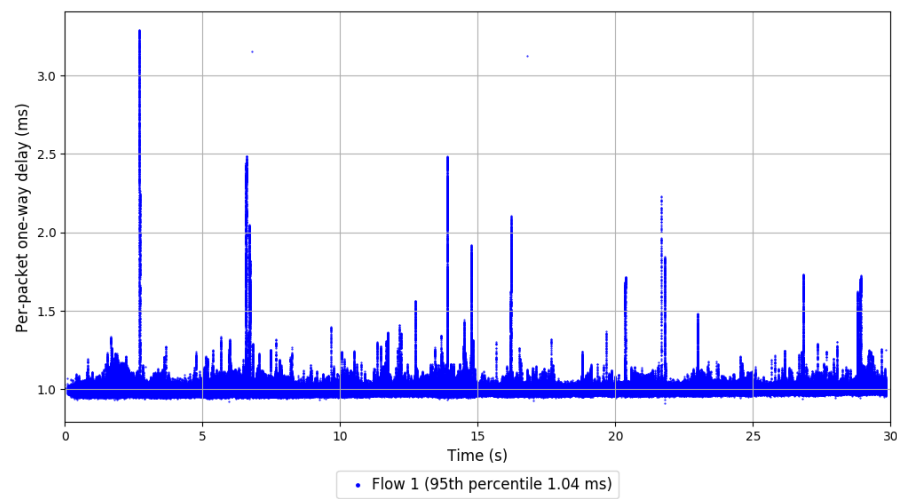
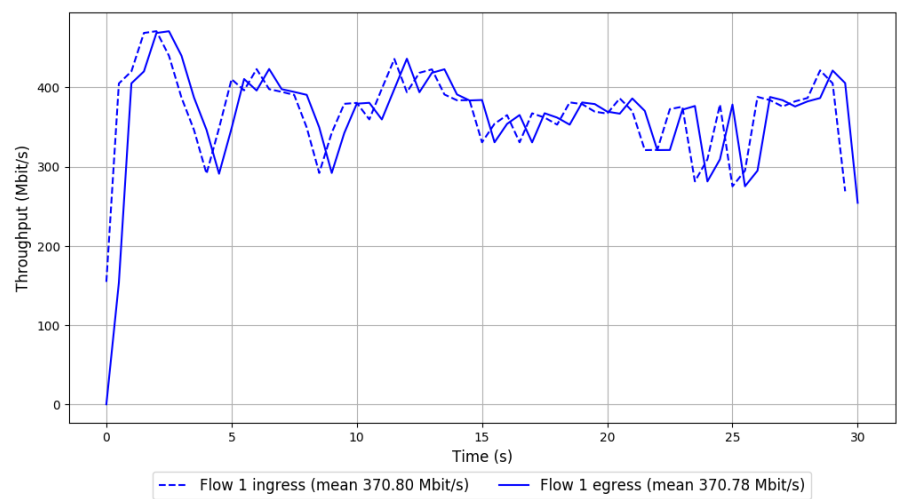
-- Flow 1:

Average throughput: 370.78 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.07%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-18 03:59:31

End at: 2018-07-18 04:00:02

Local clock offset: -0.168 ms

Remote clock offset: 2.651 ms

Below is generated by plot.py at 2018-07-18 07:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.61 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.06%

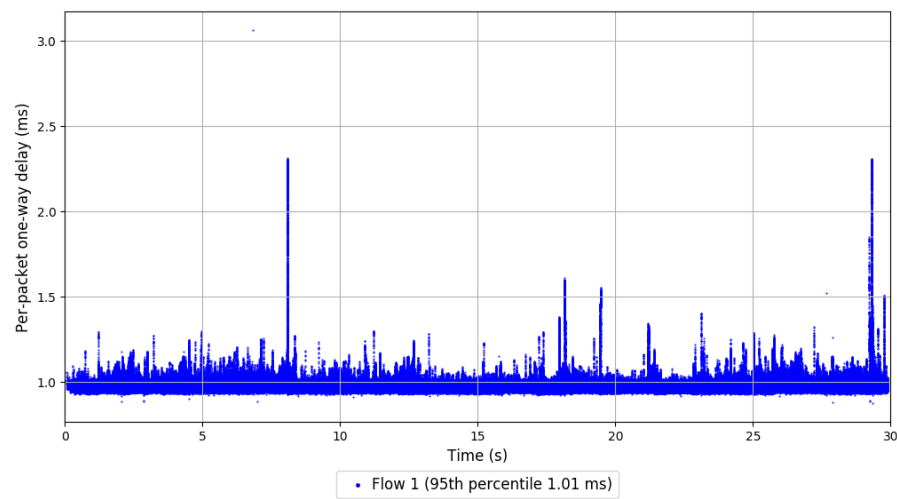
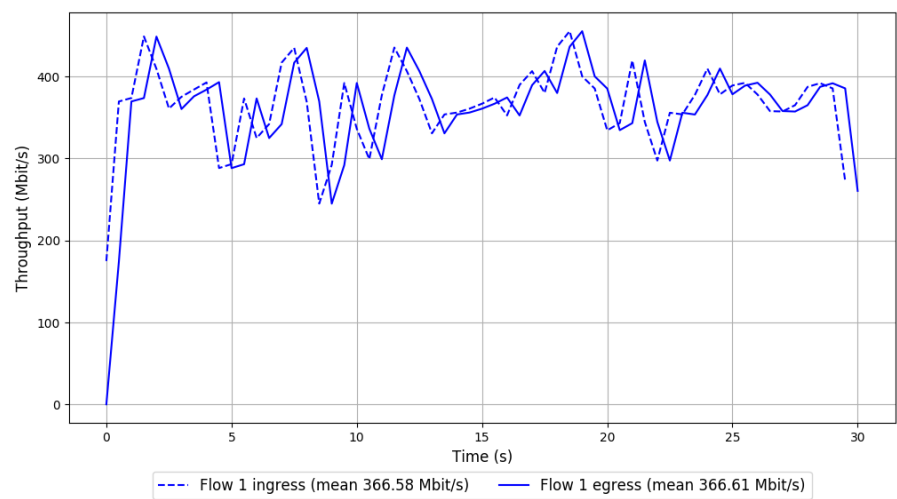
-- Flow 1:

Average throughput: 366.61 Mbit/s

95th percentile per-packet one-way delay: 1.010 ms

Loss rate: 0.06%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-18 04:25:19

End at: 2018-07-18 04:25:49

Local clock offset: 0.994 ms

Remote clock offset: 2.426 ms

Below is generated by plot.py at 2018-07-18 07:13:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.40 Mbit/s

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

Loss rate: 0.07%

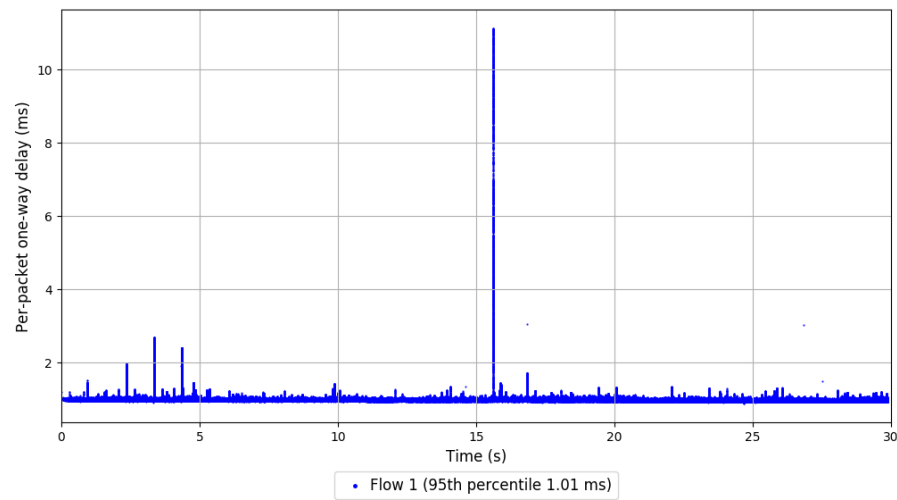
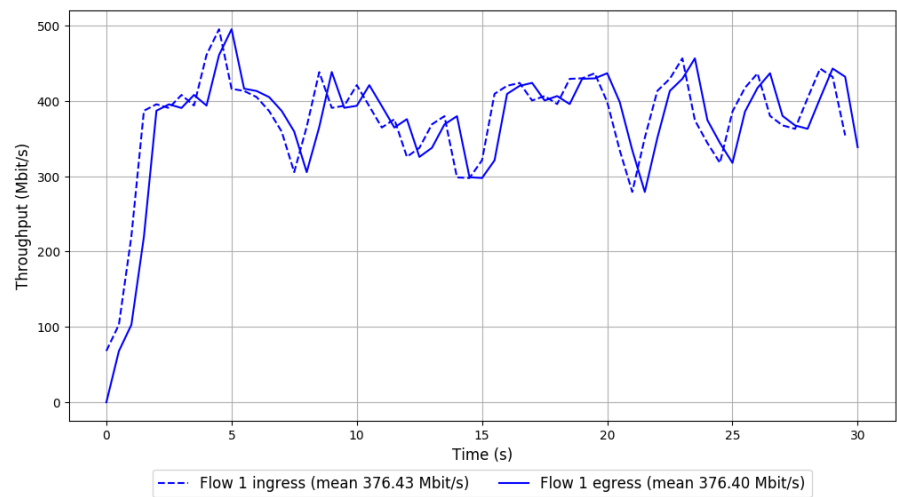
-- Flow 1:

Average throughput: 376.40 Mbit/s

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

Loss rate: 0.07%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-18 04:51:19

End at: 2018-07-18 04:51:49

Local clock offset: 0.972 ms

Remote clock offset: 2.161 ms

Below is generated by plot.py at 2018-07-18 07:13:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.33 Mbit/s

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

Loss rate: 0.06%

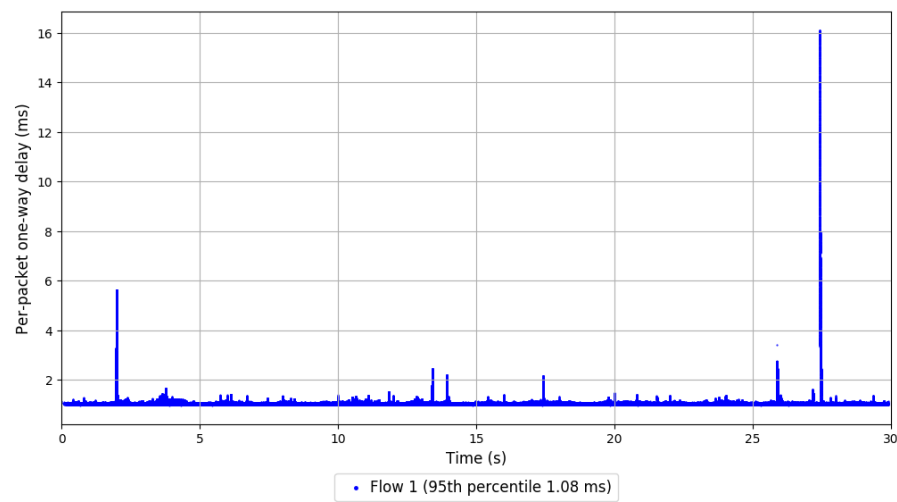
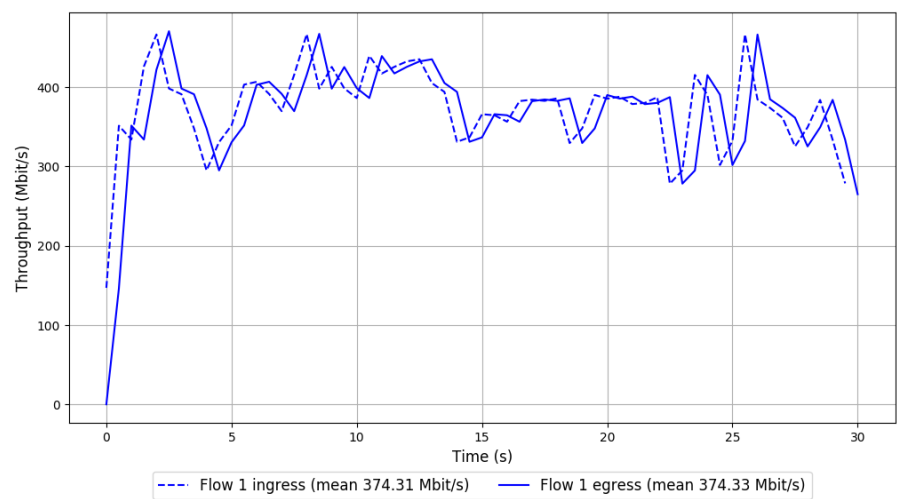
-- Flow 1:

Average throughput: 374.33 Mbit/s

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

Loss rate: 0.06%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-18 05:17:15

End at: 2018-07-18 05:17:45

Local clock offset: 7.507 ms

Remote clock offset: 1.772 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.99 Mbit/s

95th percentile per-packet one-way delay: 0.674 ms

Loss rate: 0.06%

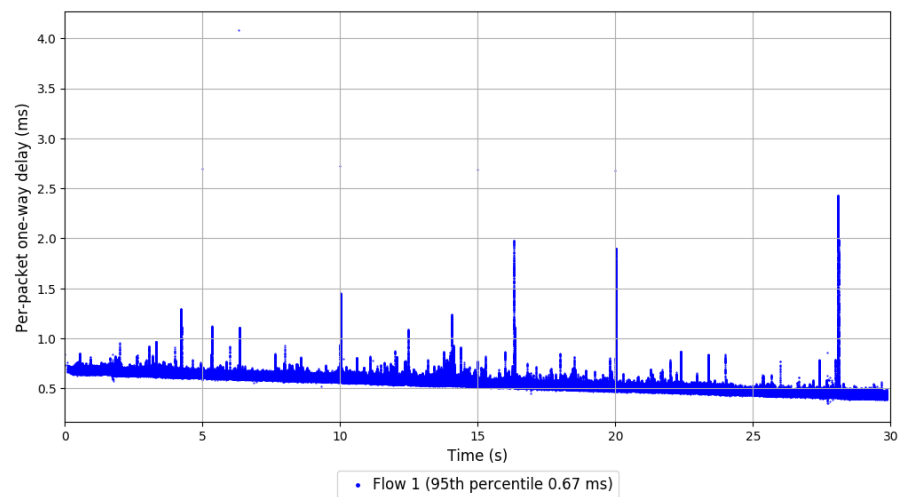
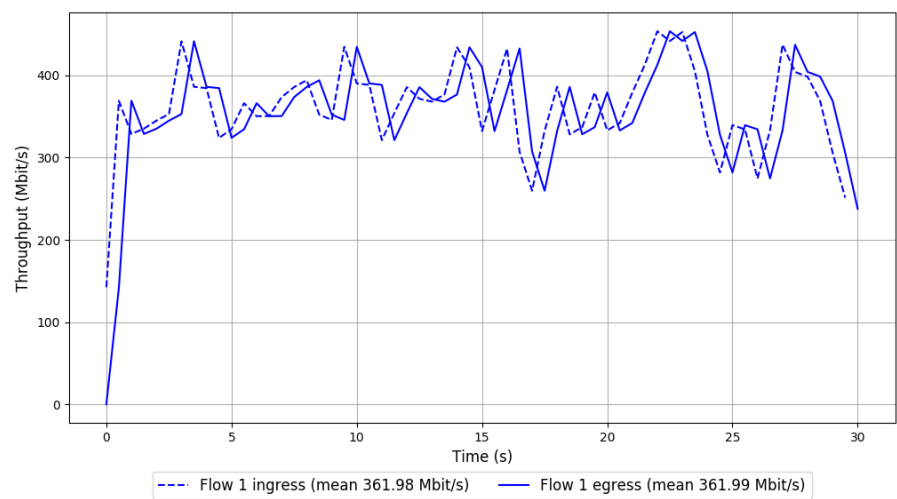
-- Flow 1:

Average throughput: 361.99 Mbit/s

95th percentile per-packet one-way delay: 0.674 ms

Loss rate: 0.06%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-18 01:25:50

End at: 2018-07-18 01:26:20

Local clock offset: 1.032 ms

Remote clock offset: 1.266 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.58 Mbit/s

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

Loss rate: 0.08%

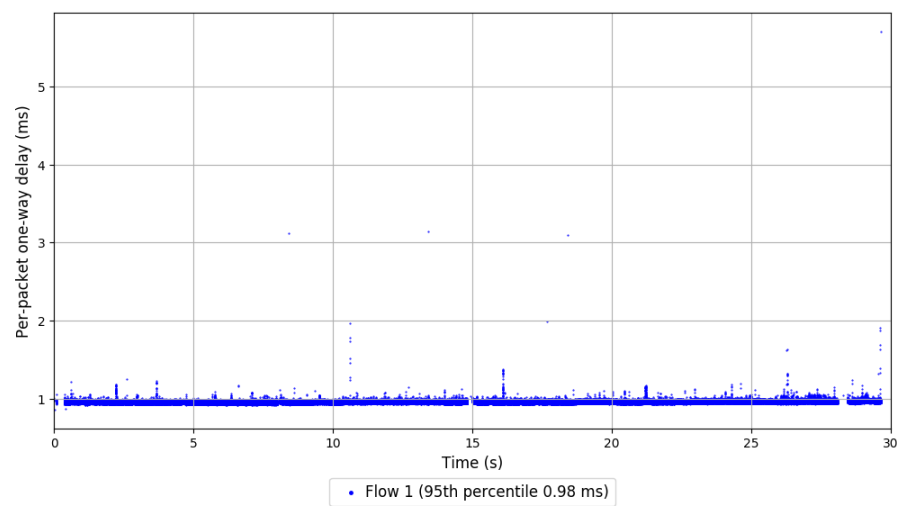
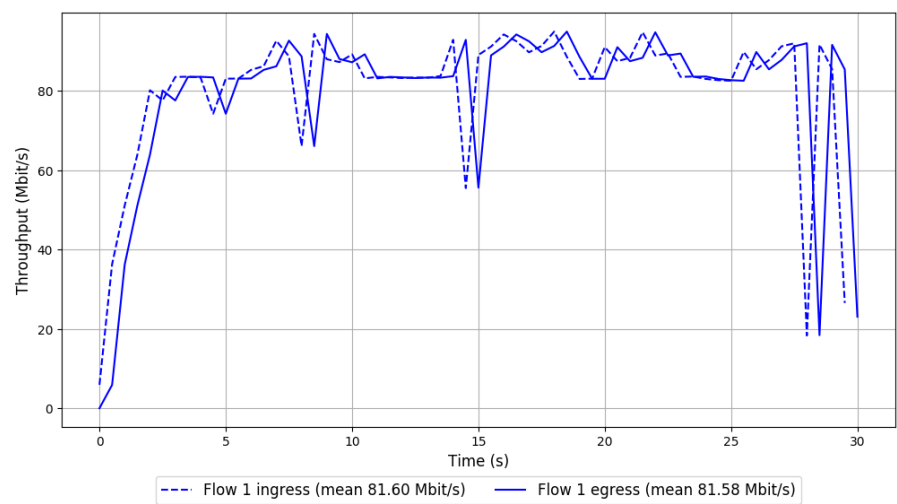
-- Flow 1:

Average throughput: 81.58 Mbit/s

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

Loss rate: 0.08%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-18 01:51:45

End at: 2018-07-18 01:52:15

Local clock offset: 0.526 ms

Remote clock offset: 2.061 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.07%

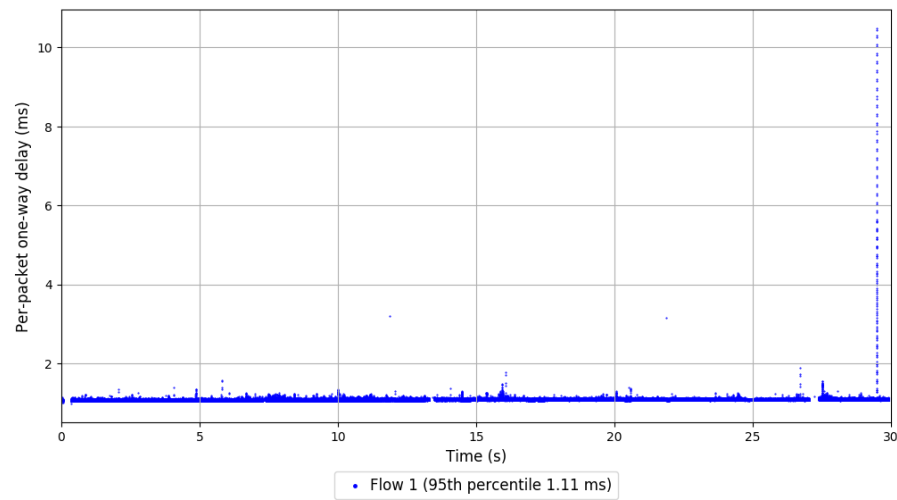
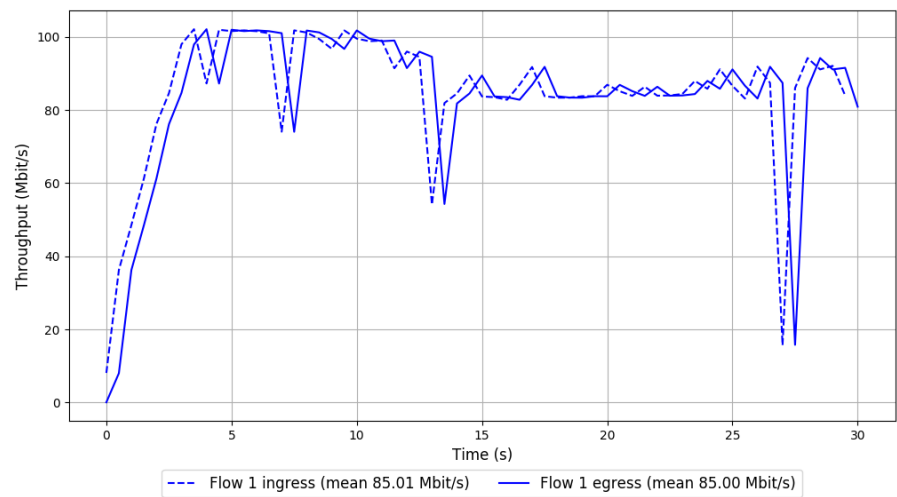
-- Flow 1:

Average throughput: 85.00 Mbit/s

95th percentile per-packet one-way delay: 1.106 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-18 02:17:36

End at: 2018-07-18 02:18:06

Local clock offset: 0.885 ms

Remote clock offset: 2.624 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.07%

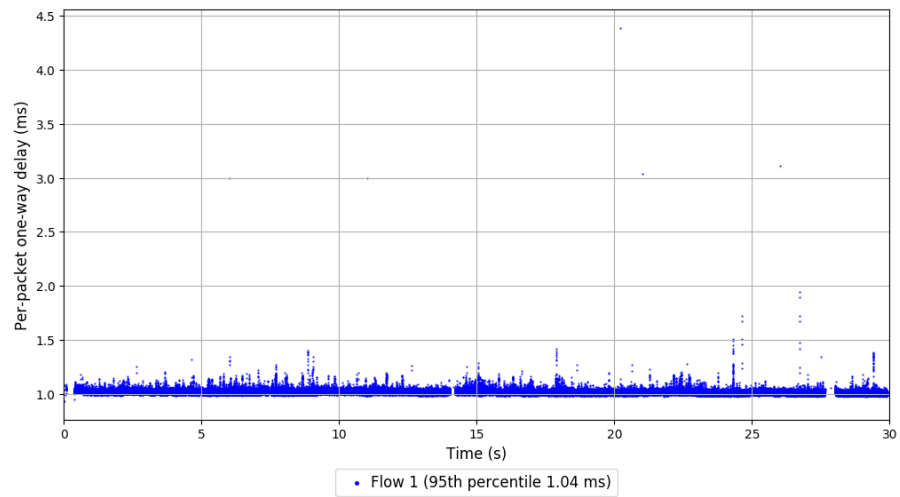
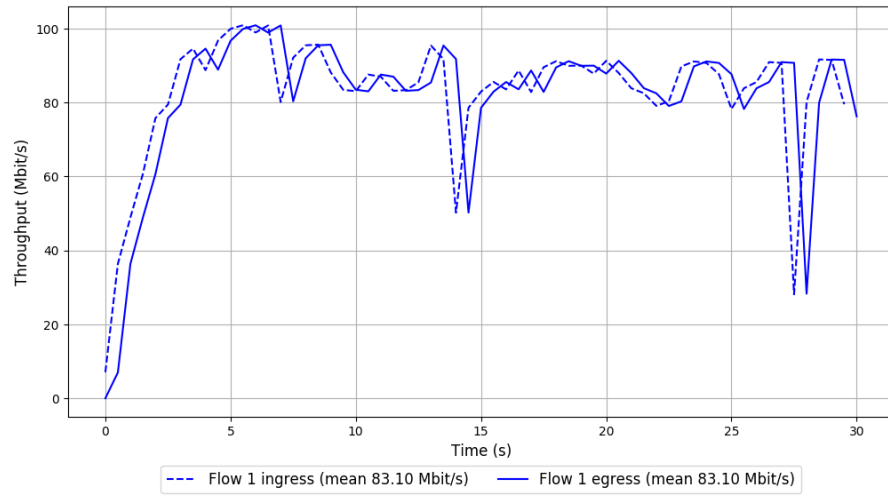
-- Flow 1:

Average throughput: 83.10 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-18 02:43:38

End at: 2018-07-18 02:44:08

Local clock offset: 1.132 ms

Remote clock offset: 2.93 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.16 Mbit/s

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

Loss rate: 0.07%

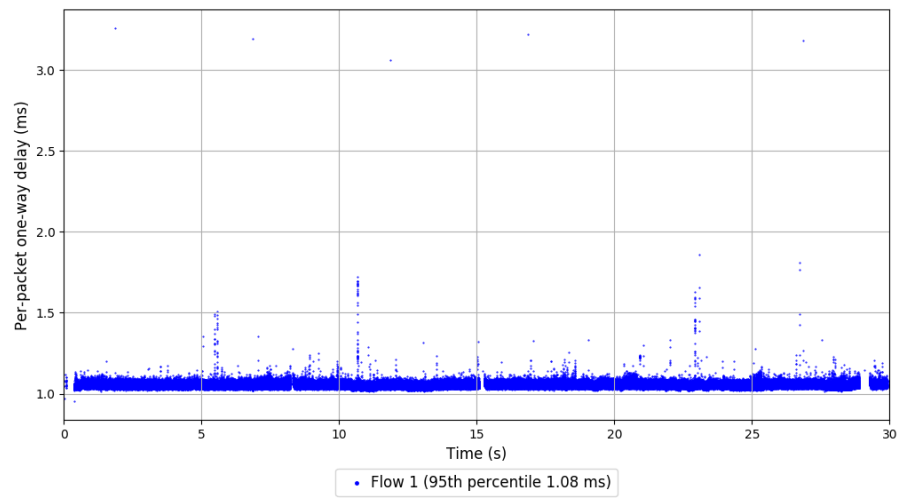
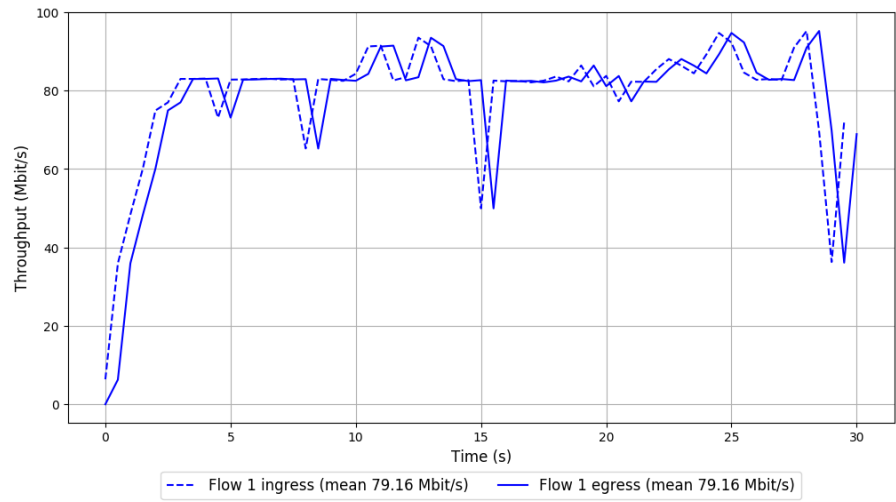
-- Flow 1:

Average throughput: 79.16 Mbit/s

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

Loss rate: 0.07%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-18 03:09:26

End at: 2018-07-18 03:09:56

Local clock offset: 0.853 ms

Remote clock offset: 2.626 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 91.92 Mbit/s

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

Loss rate: 0.07%

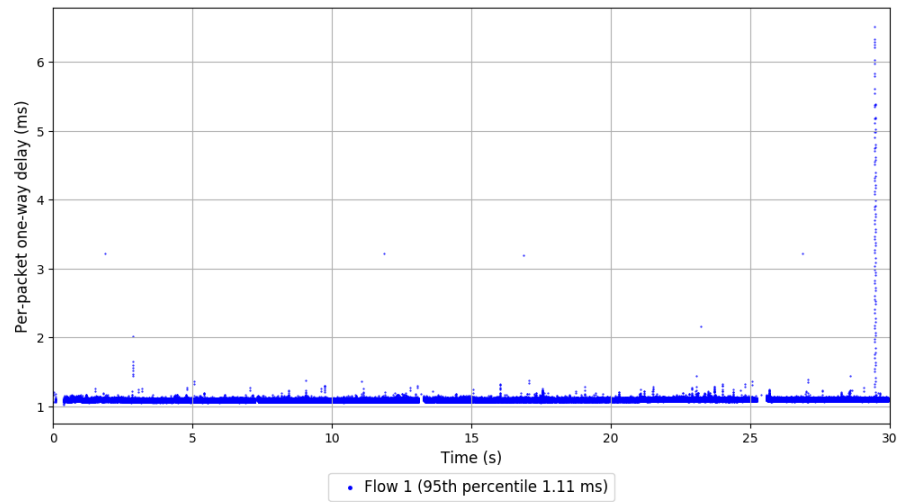
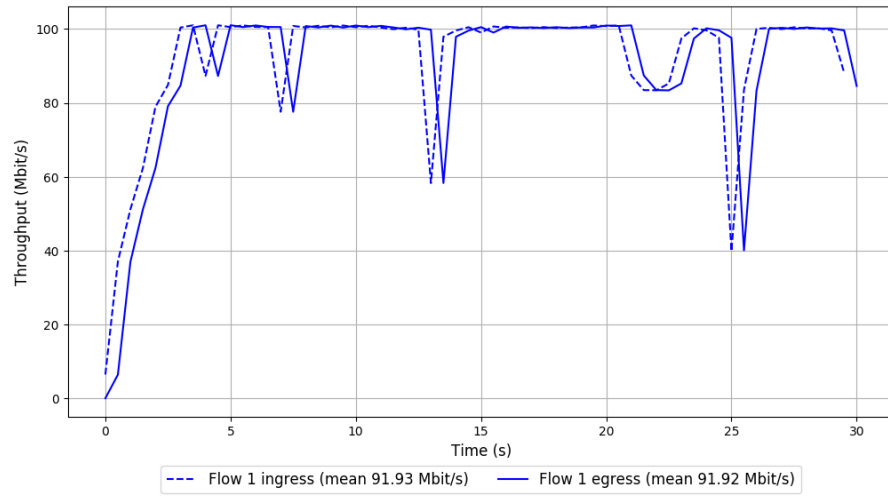
-- Flow 1:

Average throughput: 91.92 Mbit/s

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

Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-18 03:35:18

End at: 2018-07-18 03:35:48

Local clock offset: 0.283 ms

Remote clock offset: 2.705 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.07%

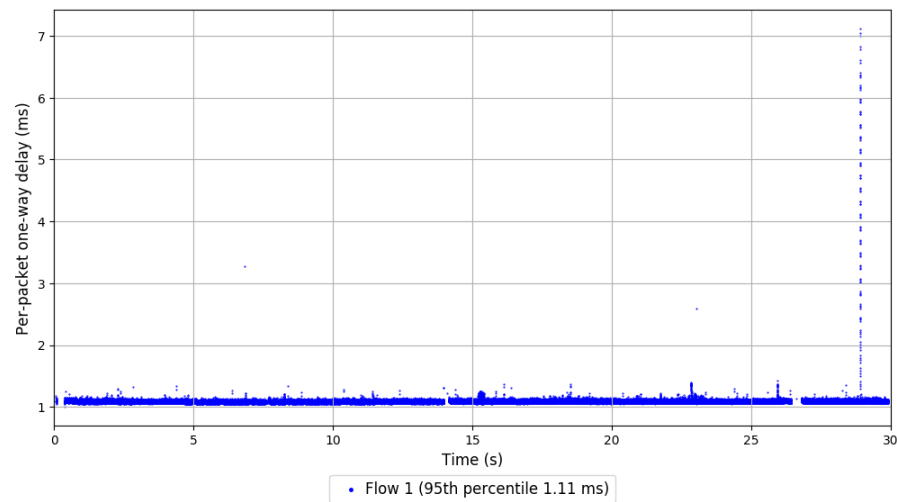
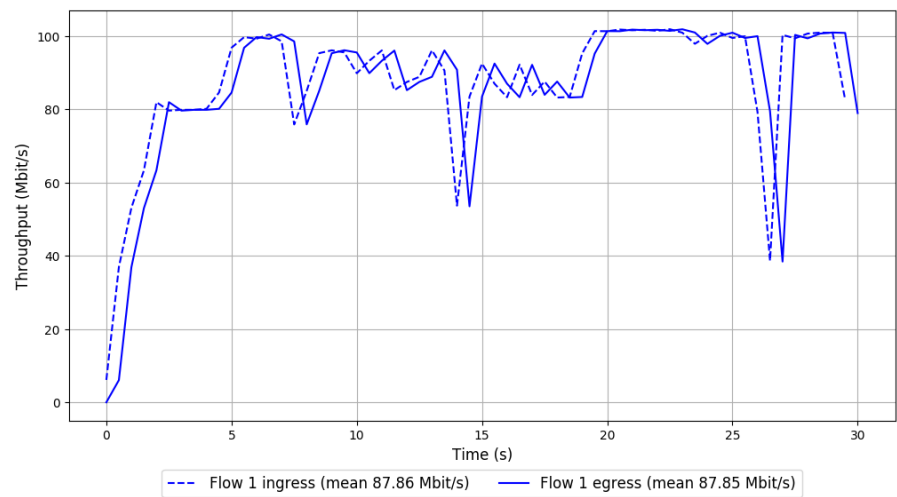
-- Flow 1:

Average throughput: 87.85 Mbit/s

95th percentile per-packet one-way delay: 1.111 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-18 04:01:11

End at: 2018-07-18 04:01:41

Local clock offset: -0.052 ms

Remote clock offset: 2.685 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.08%

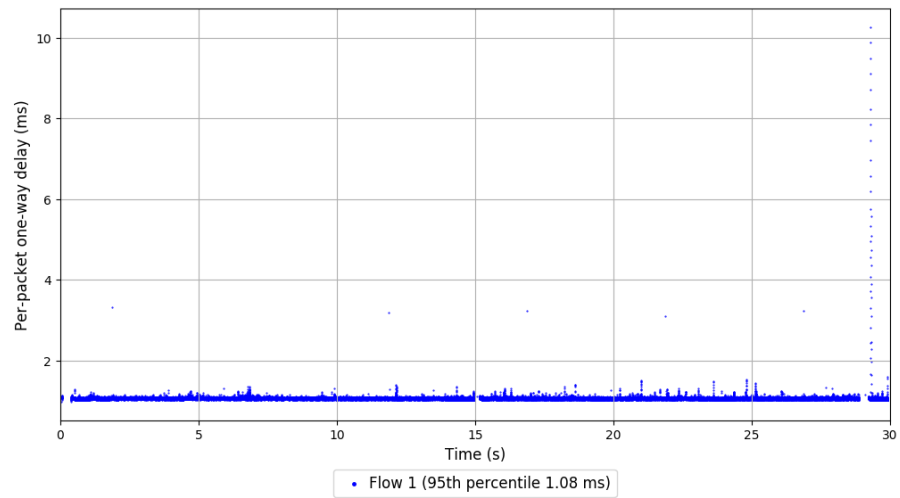
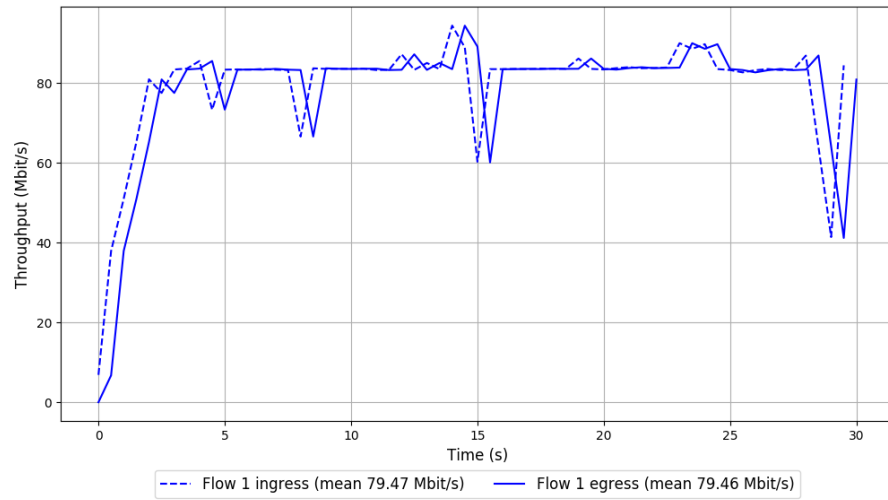
-- Flow 1:

Average throughput: 79.46 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.08%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-18 04:26:58

End at: 2018-07-18 04:27:29

Local clock offset: 1.122 ms

Remote clock offset: 2.432 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.20 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.06%

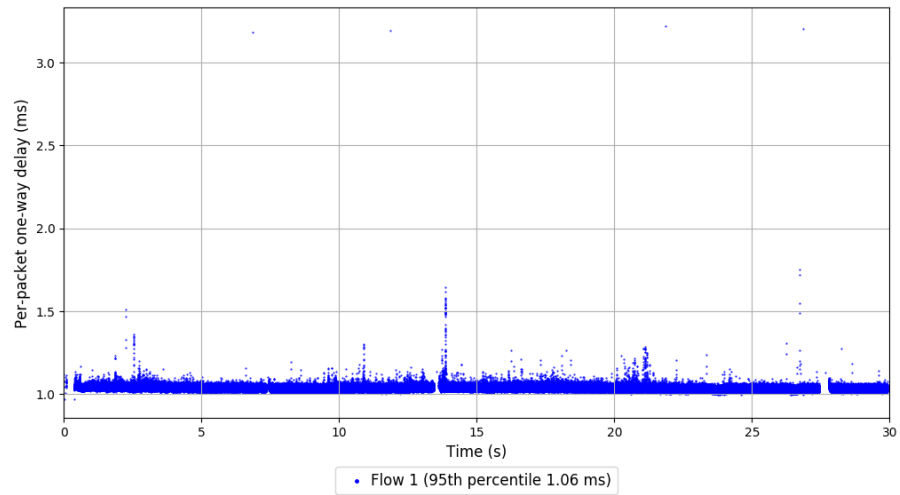
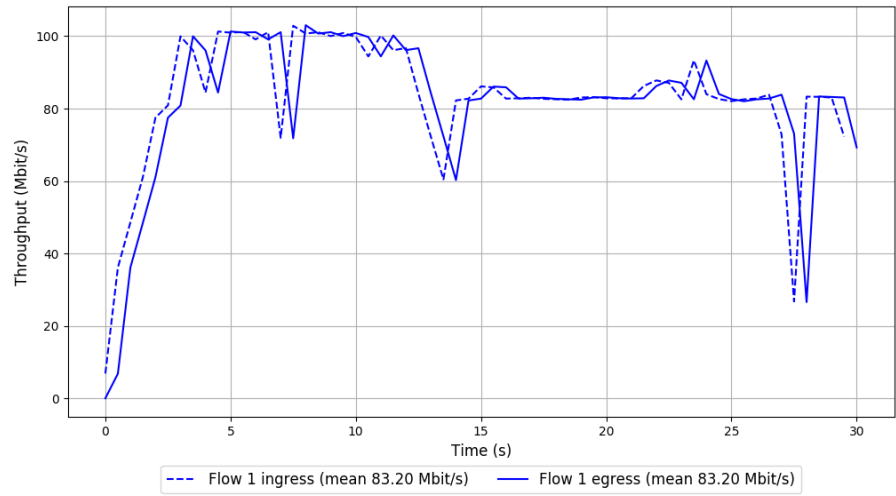
-- Flow 1:

Average throughput: 83.20 Mbit/s

95th percentile per-packet one-way delay: 1.060 ms

Loss rate: 0.06%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-18 04:52:58

End at: 2018-07-18 04:53:28

Local clock offset: 0.943 ms

Remote clock offset: 2.181 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.07%

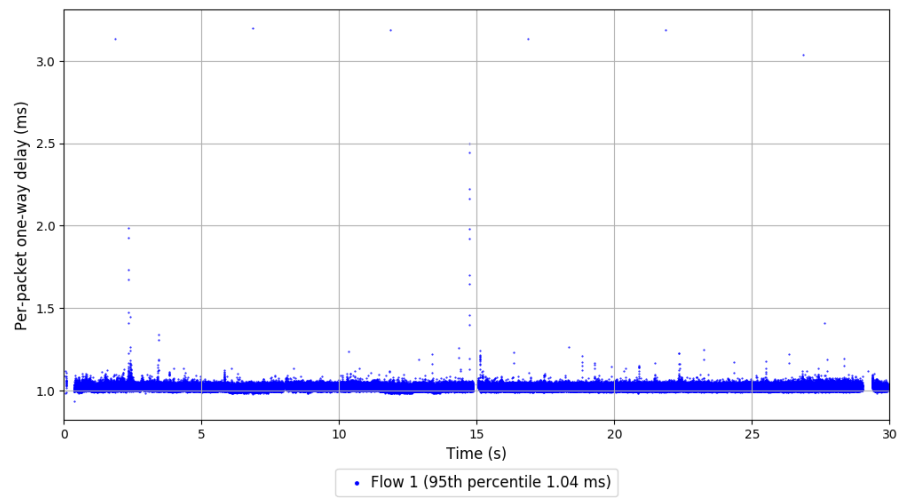
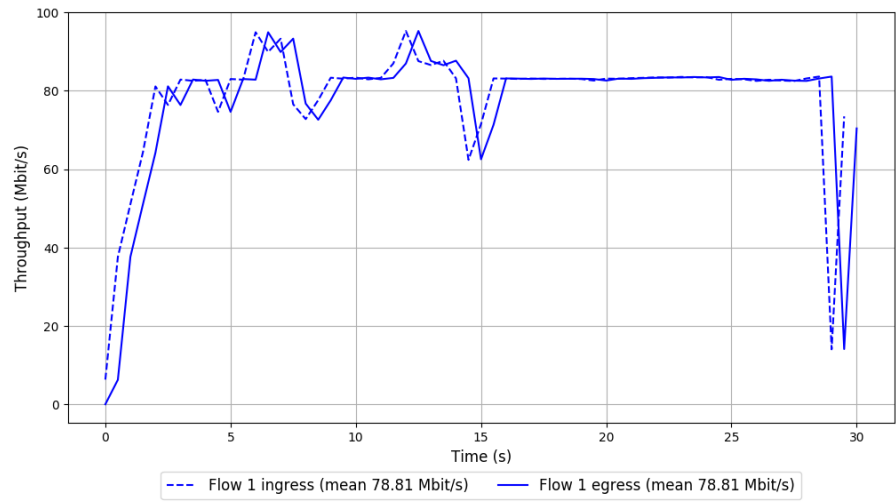
-- Flow 1:

Average throughput: 78.81 Mbit/s

95th percentile per-packet one-way delay: 1.042 ms

Loss rate: 0.07%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-18 05:18:53

End at: 2018-07-18 05:19:23

Local clock offset: 8.376 ms

Remote clock offset: 1.687 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 0.812 ms

Loss rate: 0.07%

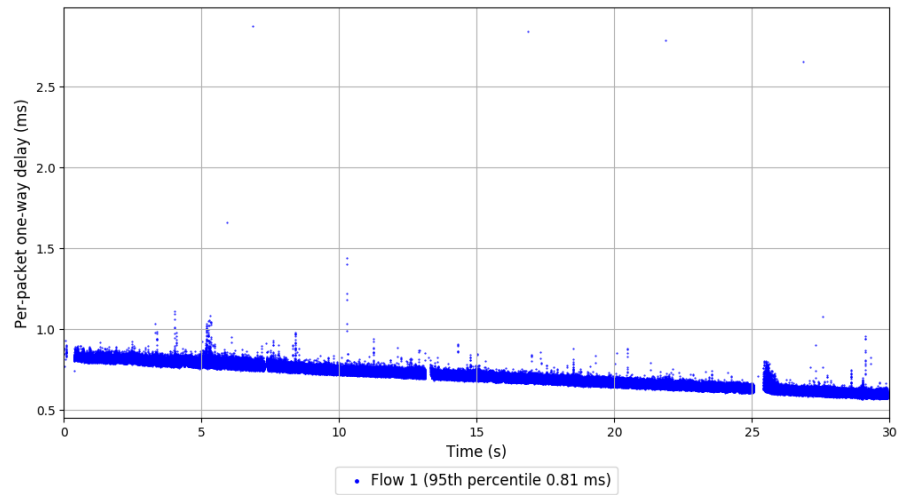
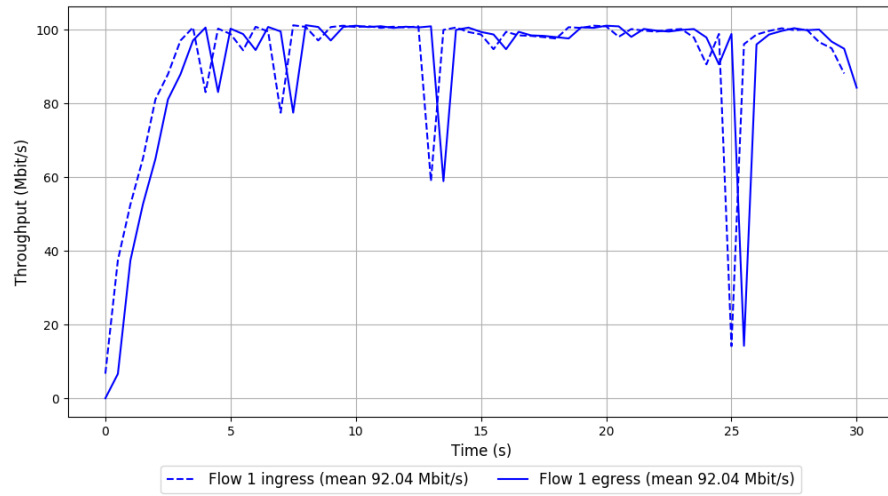
-- Flow 1:

Average throughput: 92.04 Mbit/s

95th percentile per-packet one-way delay: 0.812 ms

Loss rate: 0.07%

Run 10: Report of QUIC Cubic — Data Link

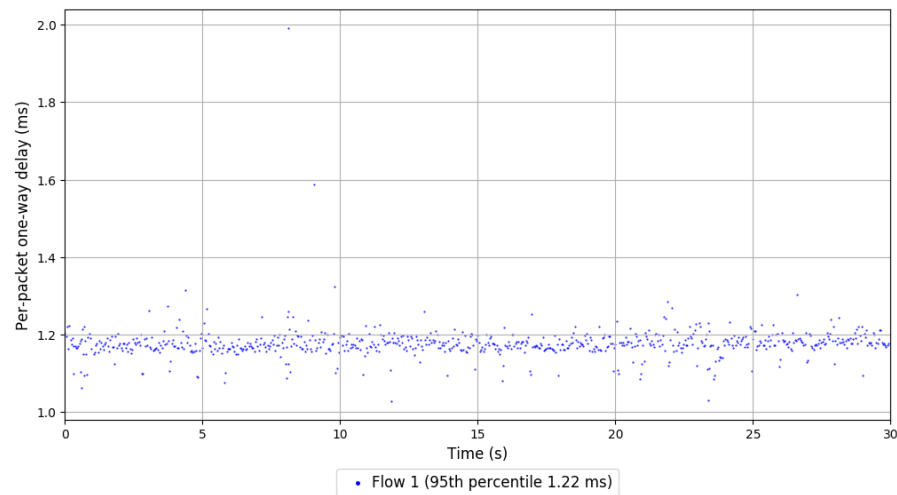
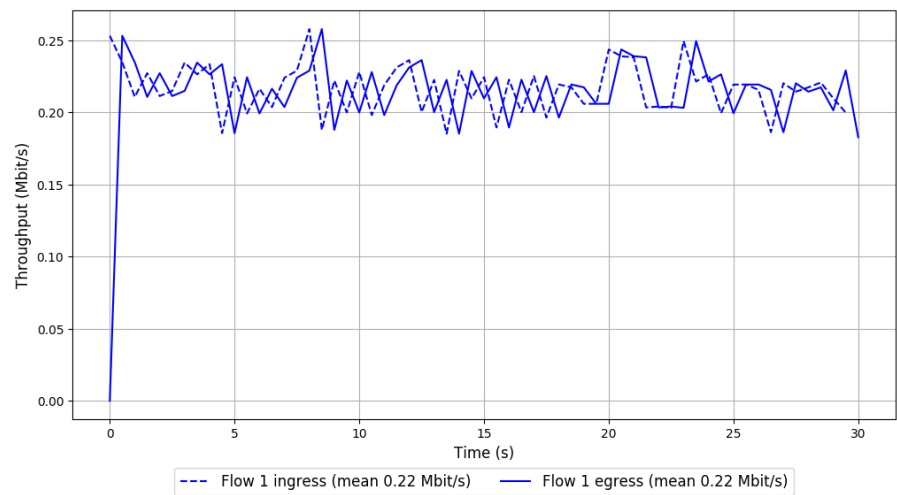


```
Run 1: Statistics of SCReAM

Start at: 2018-07-18 01:30:05
End at: 2018-07-18 01:30:35
Local clock offset: 1.136 ms
Remote clock offset: 1.405 ms

# Below is generated by plot.py at 2018-07-18 07:13:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.221 ms
Loss rate: 0.13%
```

Run 1: Report of SCReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-07-18 01:56:02

End at: 2018-07-18 01:56:32

Local clock offset: 0.361 ms

Remote clock offset: 2.222 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.13%

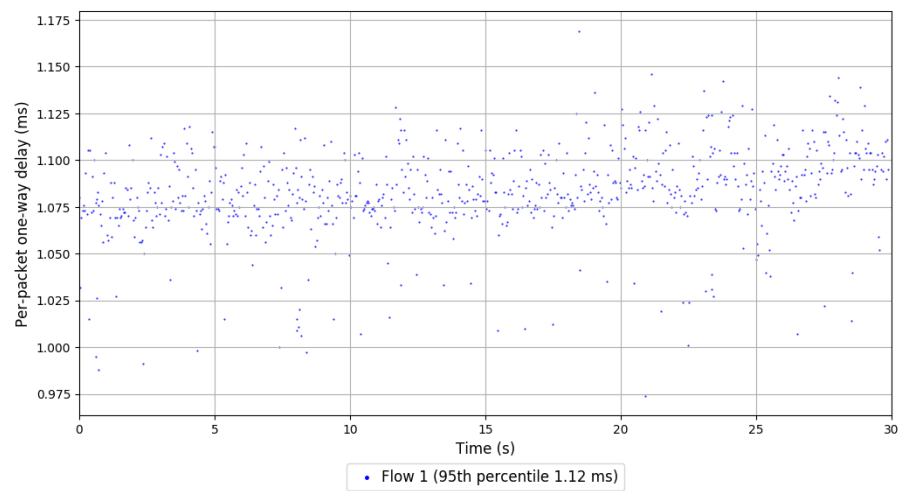
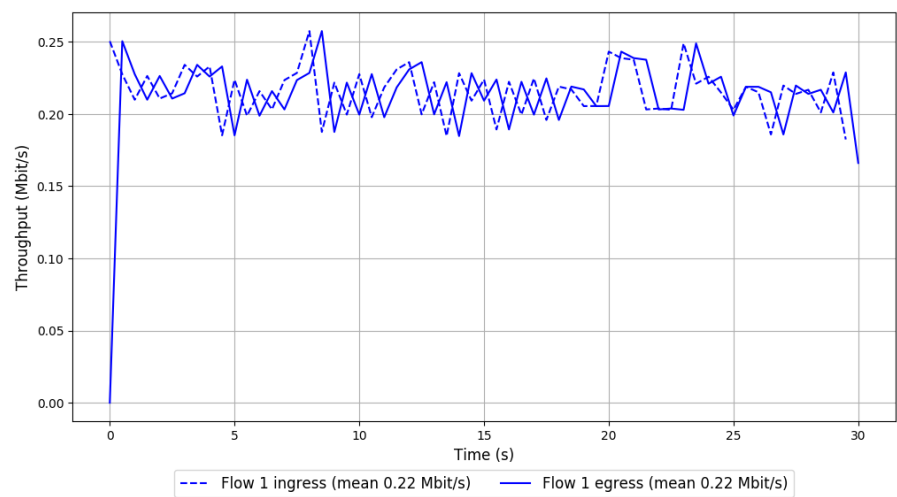
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-18 02:21:53

End at: 2018-07-18 02:22:23

Local clock offset: 1.06 ms

Remote clock offset: 2.728 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.13%

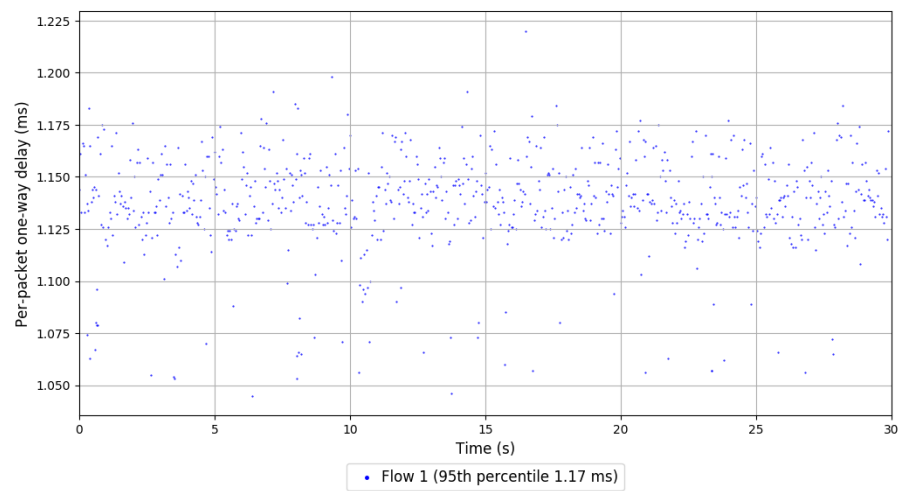
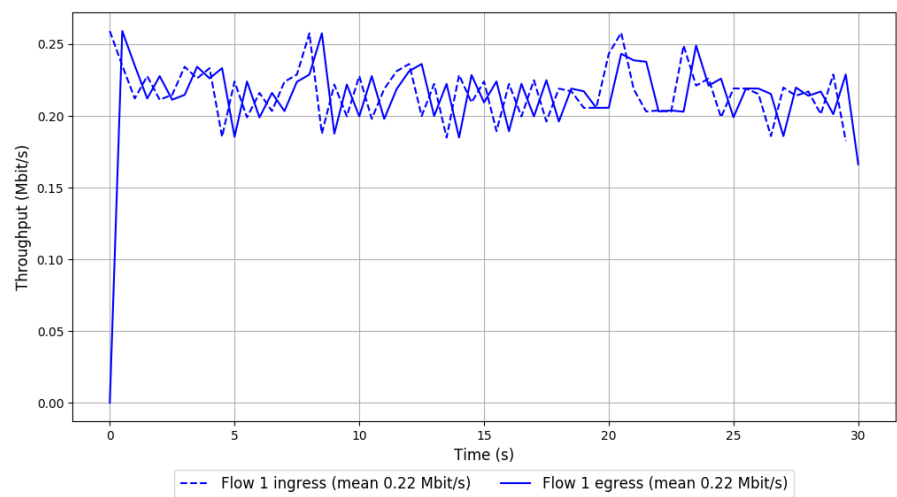
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.170 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-07-18 02:47:54

End at: 2018-07-18 02:48:24

Local clock offset: 1.048 ms

Remote clock offset: 2.889 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.13%

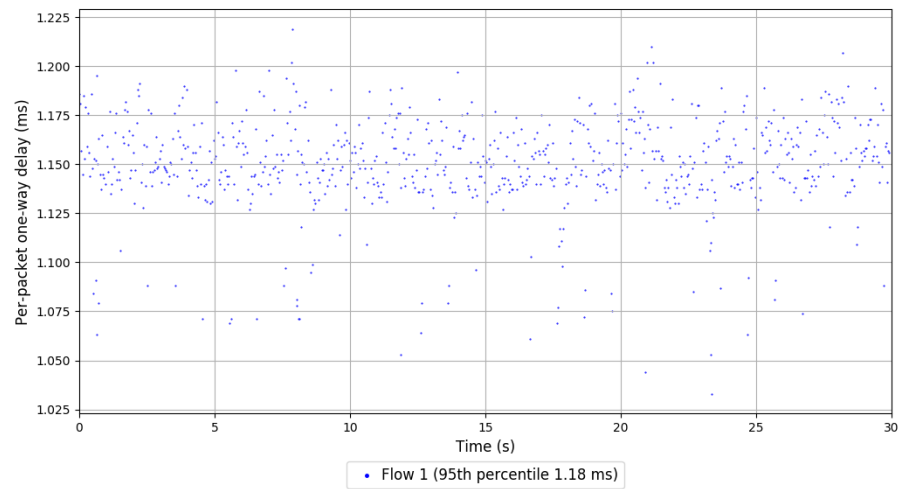
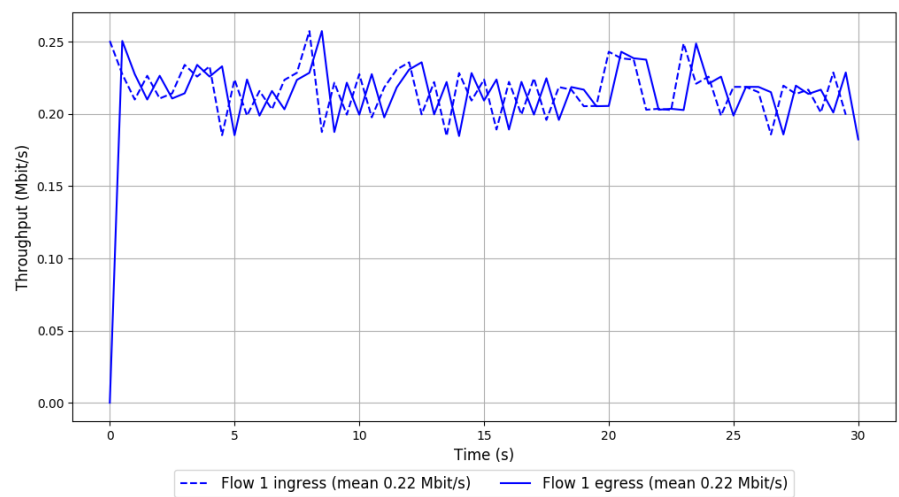
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-07-18 03:13:42

End at: 2018-07-18 03:14:12

Local clock offset: 0.631 ms

Remote clock offset: 2.673 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

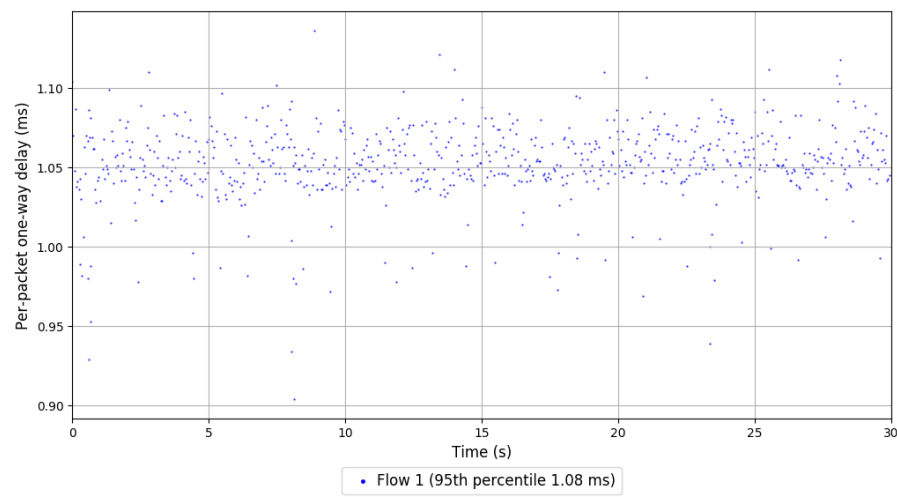
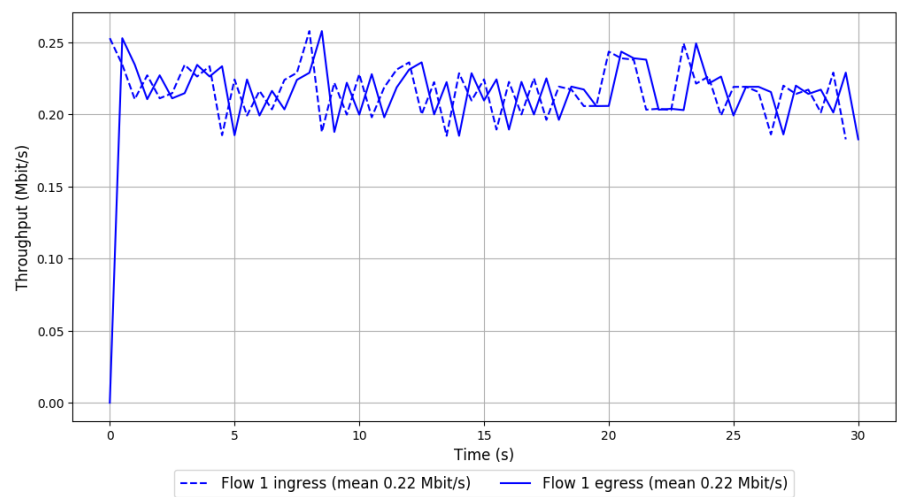
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-07-18 03:39:35

End at: 2018-07-18 03:40:05

Local clock offset: 0.075 ms

Remote clock offset: 2.788 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.13%

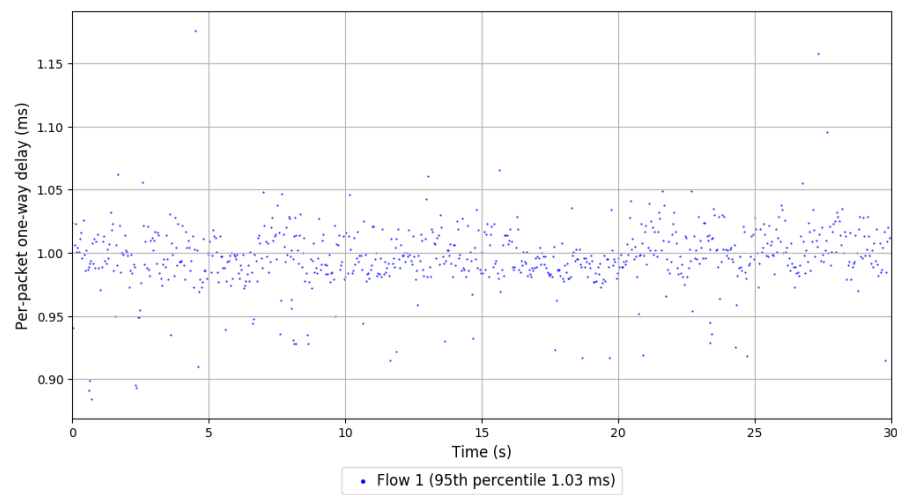
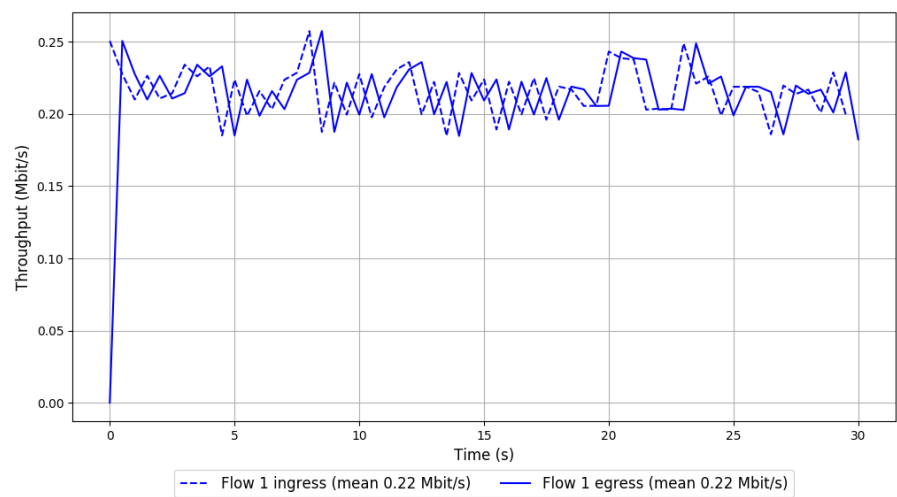
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.13%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-07-18 04:05:28

End at: 2018-07-18 04:05:58

Local clock offset: -0.019 ms

Remote clock offset: 2.725 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.13%

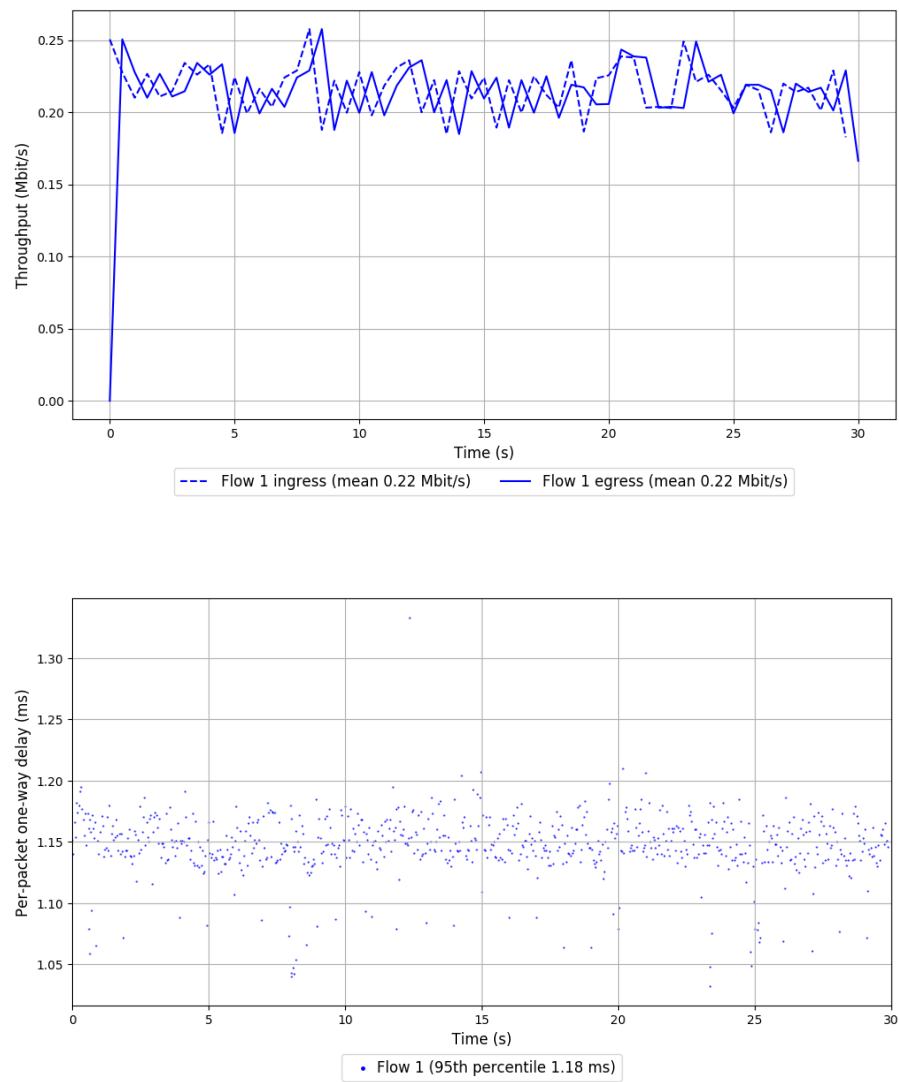
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.179 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-18 04:31:15

End at: 2018-07-18 04:31:45

Local clock offset: 1.146 ms

Remote clock offset: 2.414 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

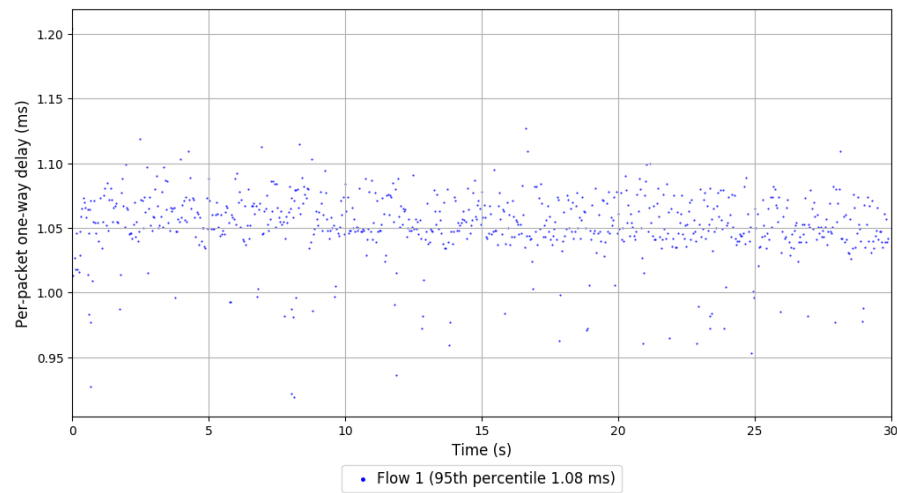
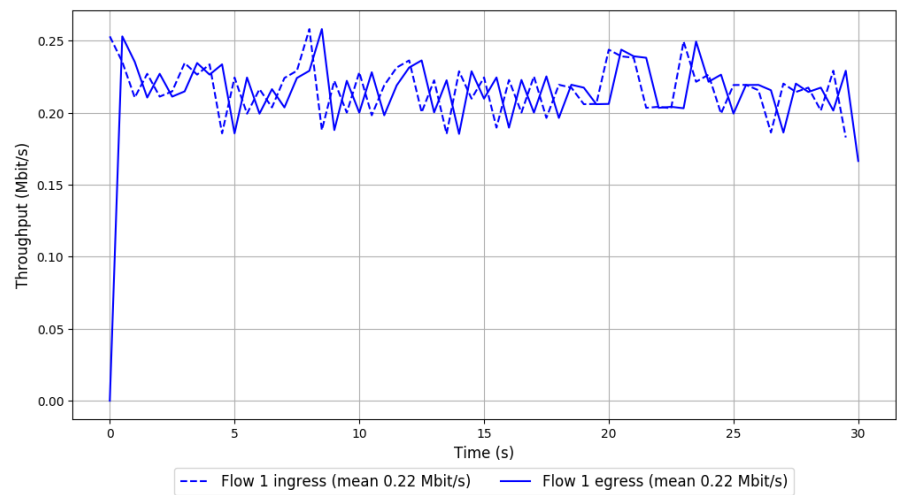
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-18 04:57:16

End at: 2018-07-18 04:57:46

Local clock offset: 0.924 ms

Remote clock offset: 2.057 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.238 ms

Loss rate: 0.13%

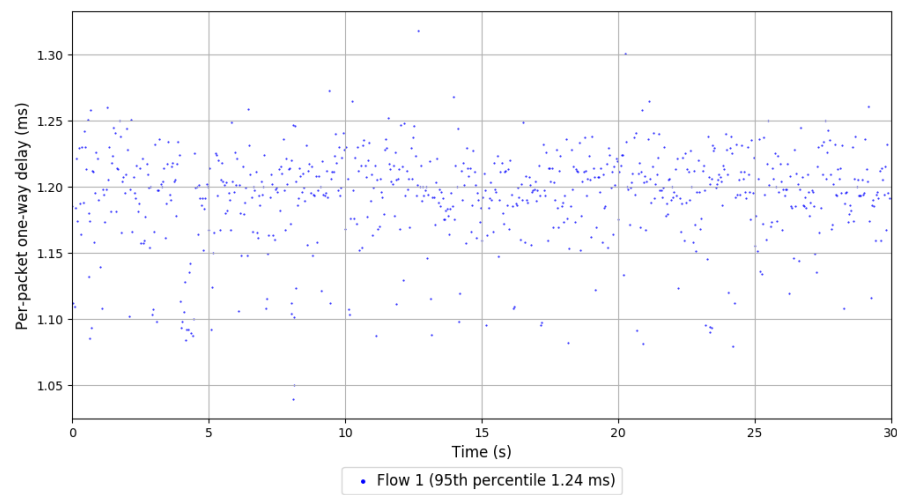
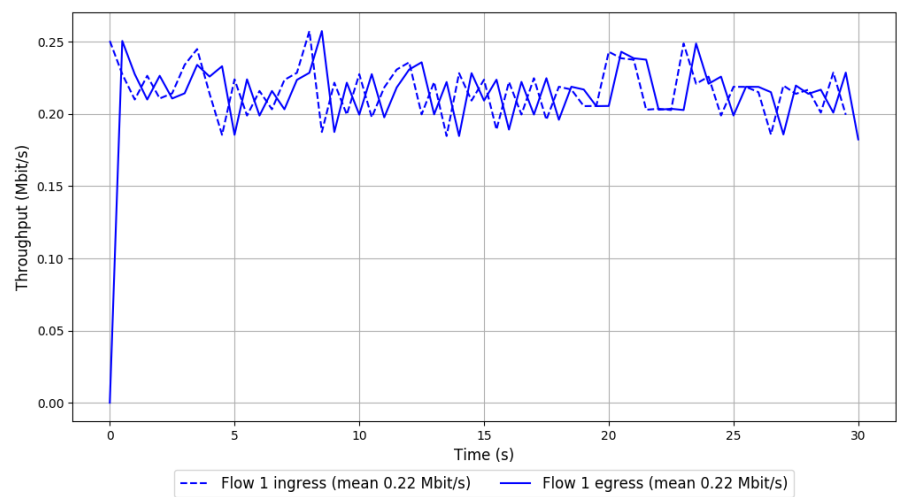
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.238 ms

Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-07-18 05:23:10

End at: 2018-07-18 05:23:40

Local clock offset: 10.027 ms

Remote clock offset: 1.645 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

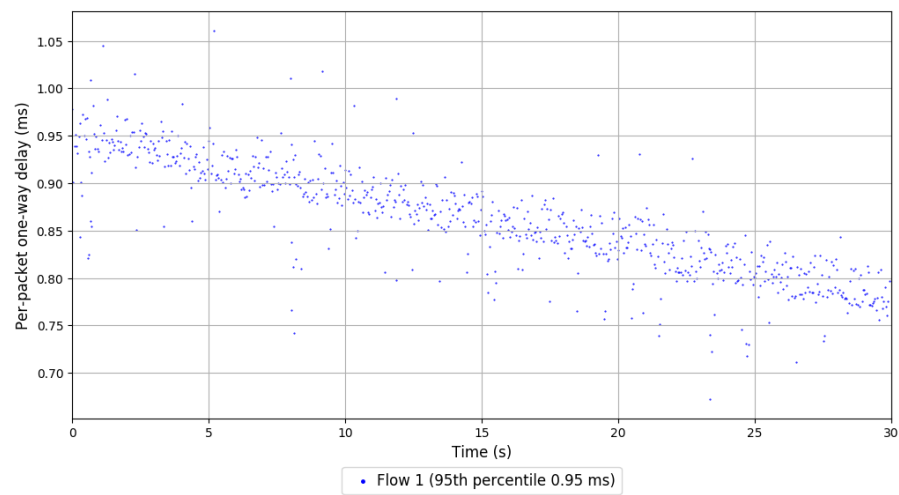
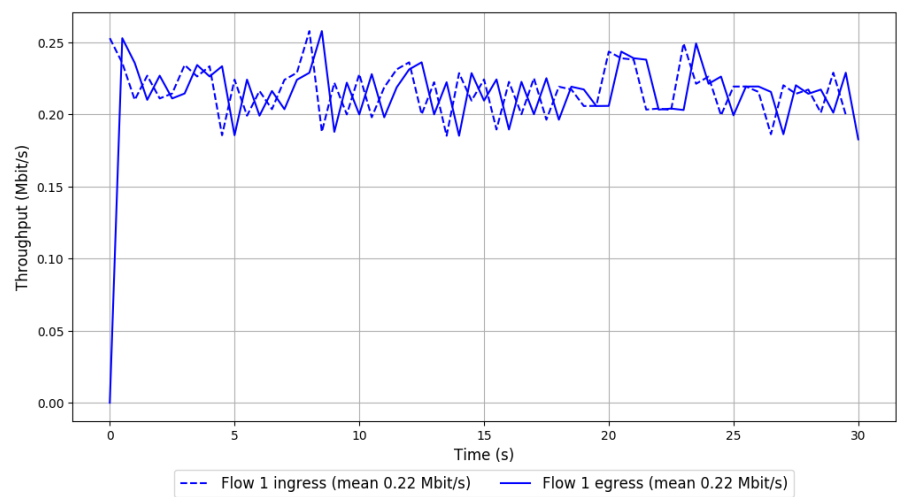
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-18 01:31:22

End at: 2018-07-18 01:31:52

Local clock offset: 1.056 ms

Remote clock offset: 1.43 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.89 Mbit/s

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

Loss rate: 0.01%

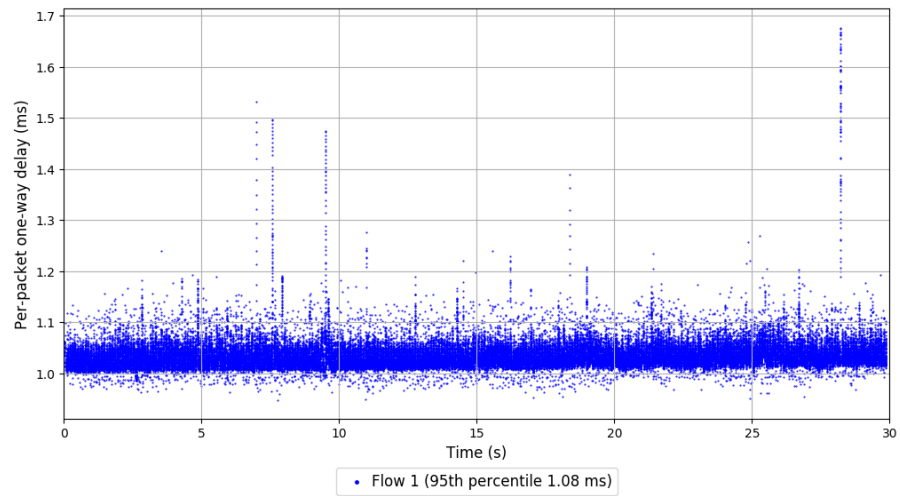
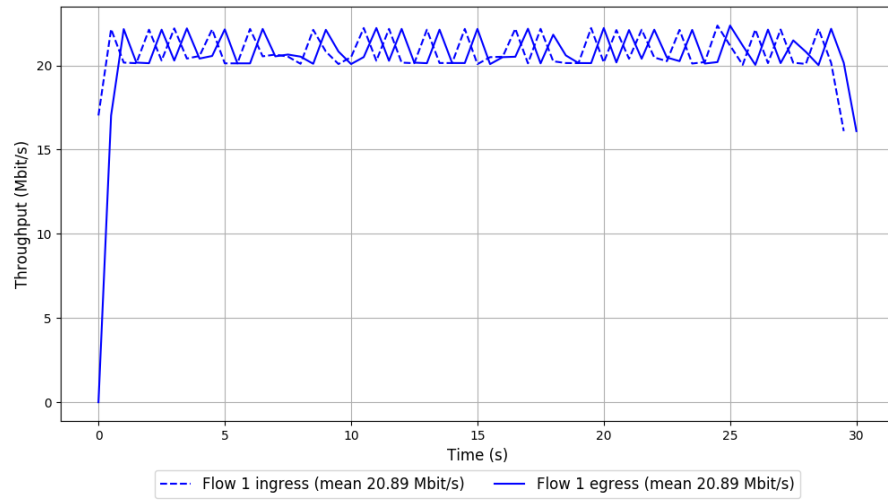
-- Flow 1:

Average throughput: 20.89 Mbit/s

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

Loss rate: 0.01%

Run 1: Report of Sprout — Data Link

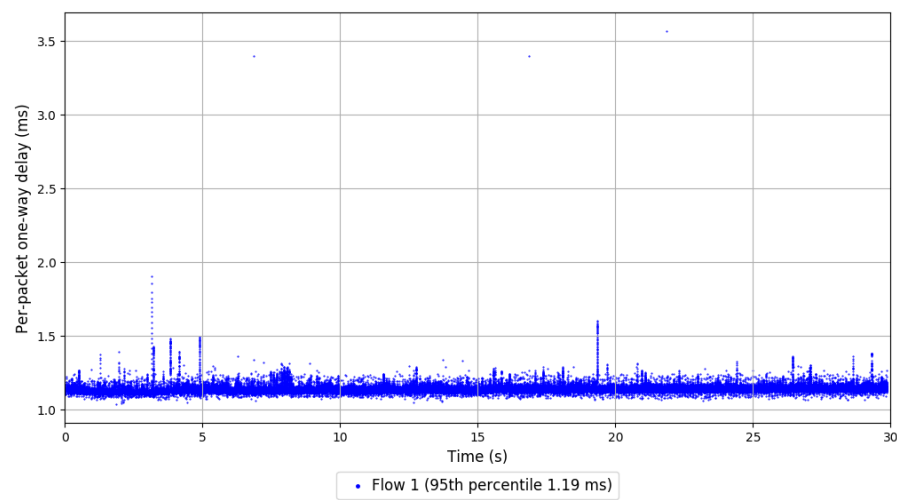
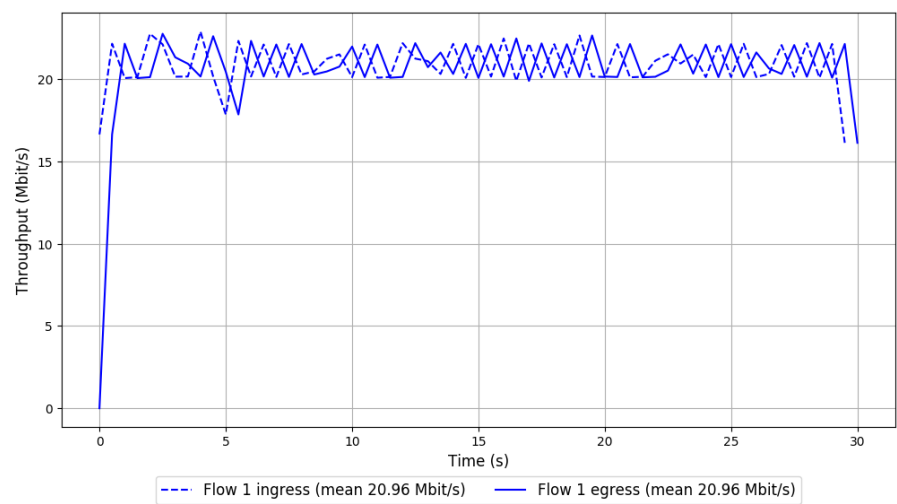


Run 2: Statistics of Sprout

Start at: 2018-07-18 01:57:19
End at: 2018-07-18 01:57:49
Local clock offset: 0.428 ms
Remote clock offset: 2.209 ms

Below is generated by plot.py at 2018-07-18 07:13:51
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.96 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.96 Mbit/s
95th percentile per-packet one-way delay: 1.188 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-18 02:23:11

End at: 2018-07-18 02:23:41

Local clock offset: 1.063 ms

Remote clock offset: 2.784 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.04%

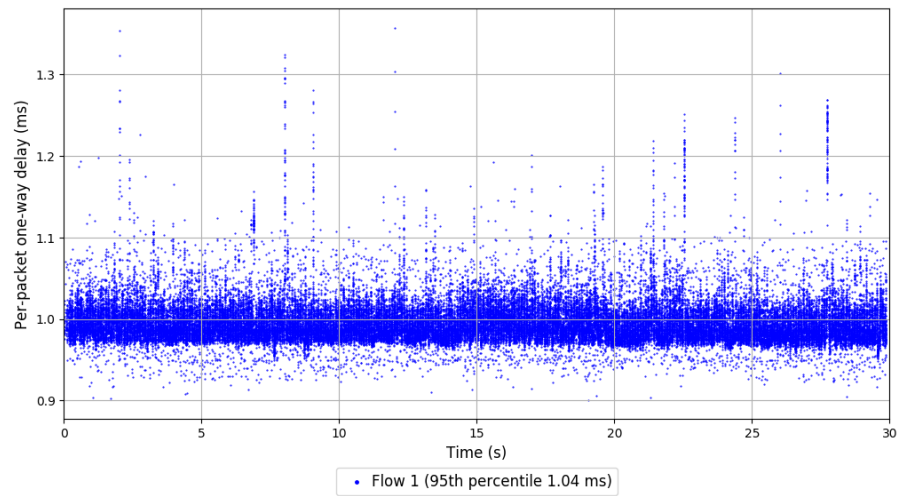
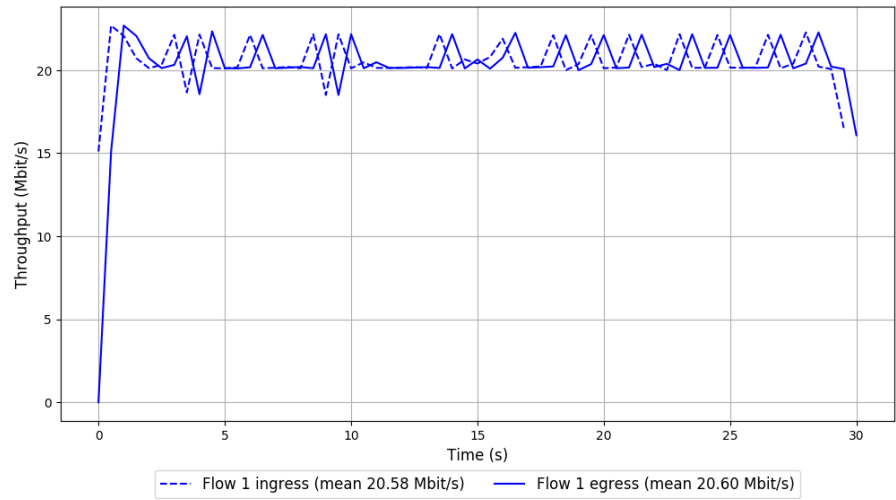
-- Flow 1:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 1.041 ms

Loss rate: 0.04%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-07-18 02:49:11

End at: 2018-07-18 02:49:41

Local clock offset: 0.938 ms

Remote clock offset: 2.911 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.96 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.00%

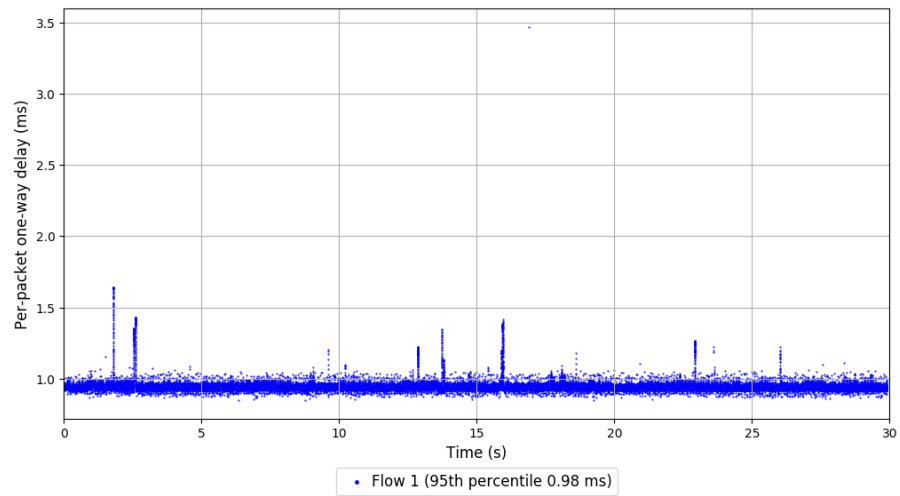
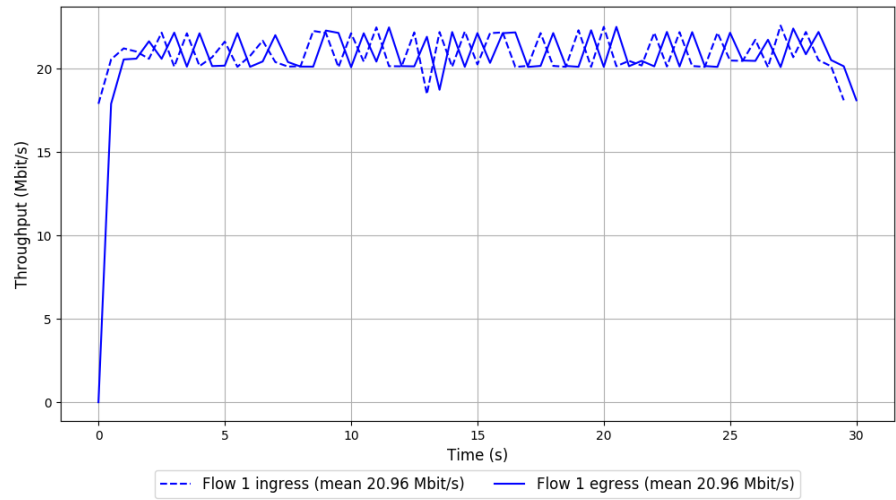
-- Flow 1:

Average throughput: 20.96 Mbit/s

95th percentile per-packet one-way delay: 0.978 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-07-18 03:14:59

End at: 2018-07-18 03:15:29

Local clock offset: 0.609 ms

Remote clock offset: 2.608 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.94 Mbit/s

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

Loss rate: 0.16%

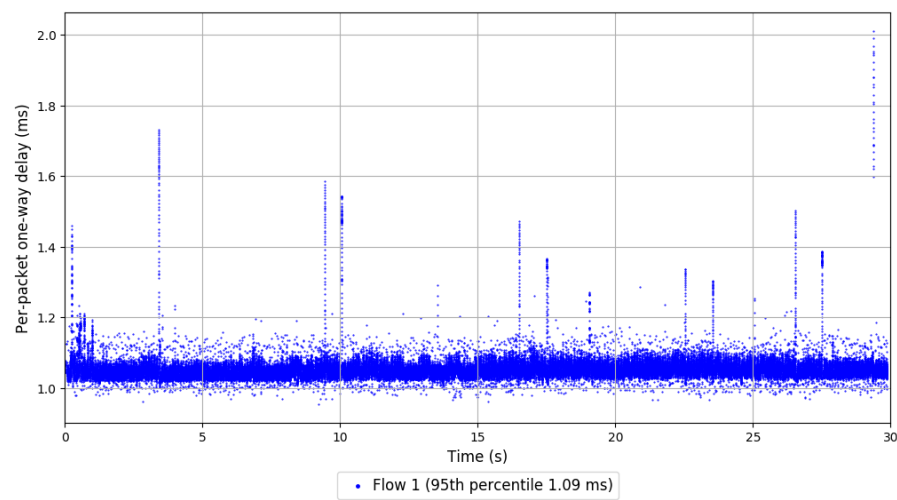
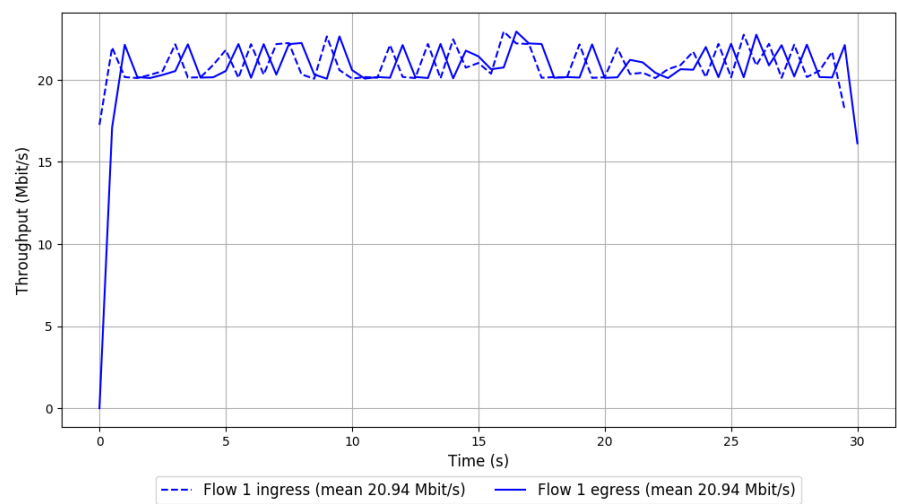
-- Flow 1:

Average throughput: 20.94 Mbit/s

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

Loss rate: 0.16%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-07-18 03:40:53

End at: 2018-07-18 03:41:23

Local clock offset: 0.138 ms

Remote clock offset: 2.723 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.16%

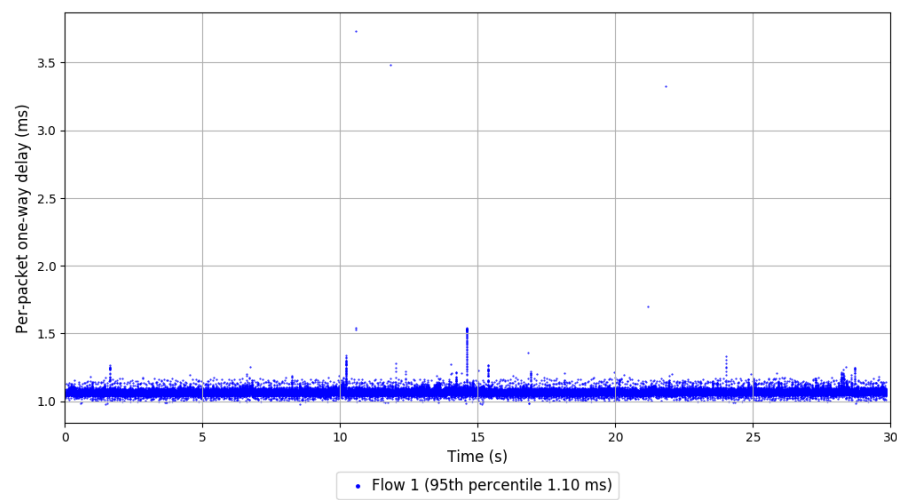
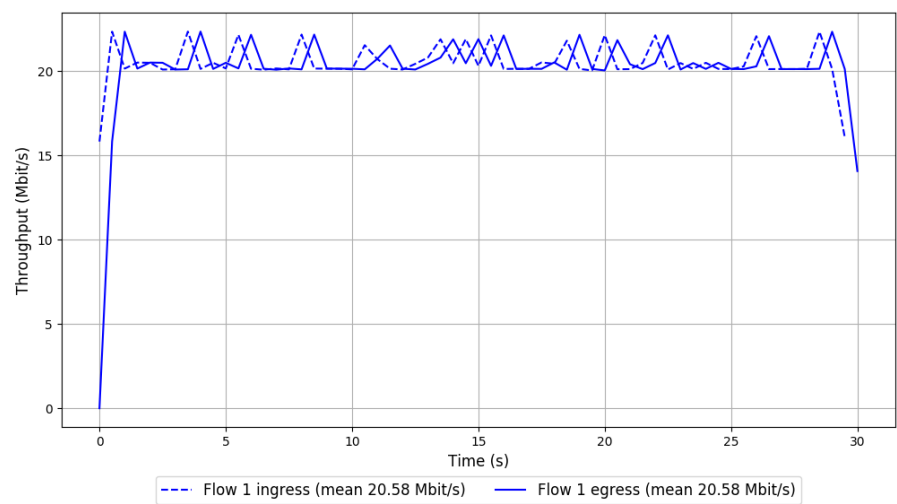
-- Flow 1:

Average throughput: 20.58 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.16%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-07-18 04:06:45

End at: 2018-07-18 04:07:15

Local clock offset: 0.001 ms

Remote clock offset: 2.744 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.07%

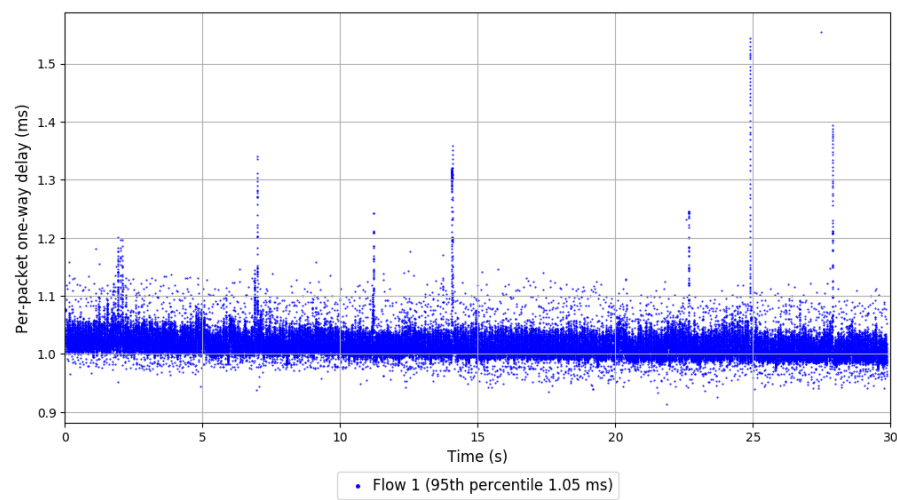
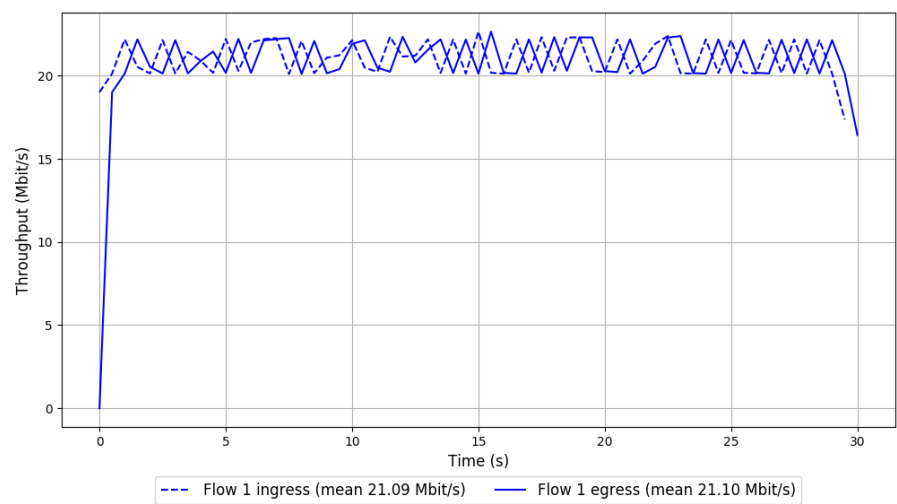
-- Flow 1:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.07%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-18 04:32:33

End at: 2018-07-18 04:33:03

Local clock offset: 1.272 ms

Remote clock offset: 2.49 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

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

Loss rate: 0.16%

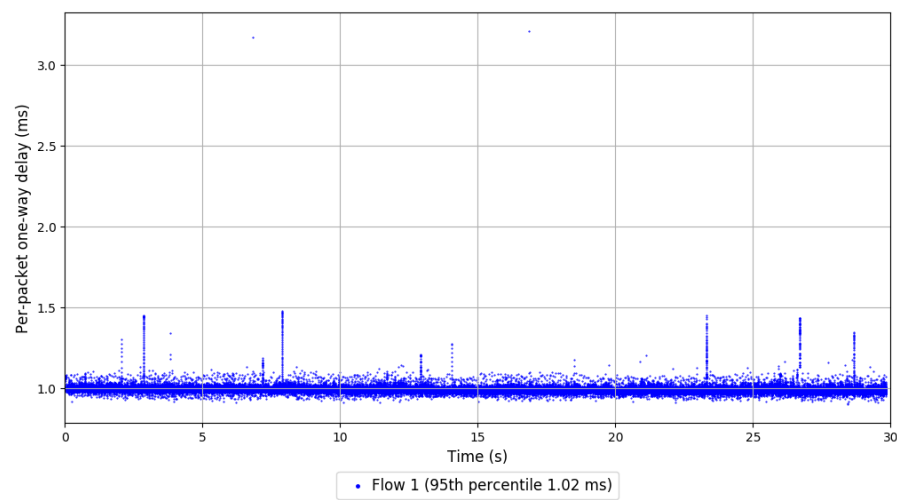
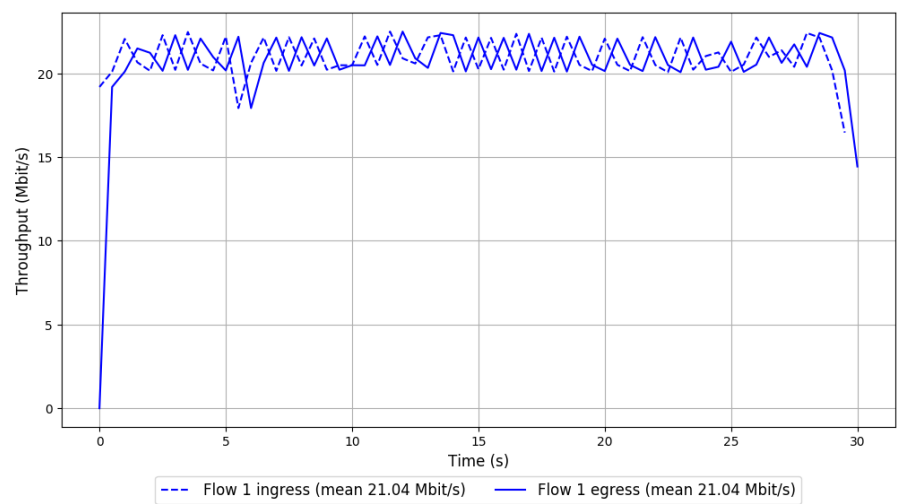
-- Flow 1:

Average throughput: 21.04 Mbit/s

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

Loss rate: 0.16%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-18 04:58:33

End at: 2018-07-18 04:59:03

Local clock offset: 0.808 ms

Remote clock offset: 2.026 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.67 Mbit/s

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

Loss rate: 0.00%

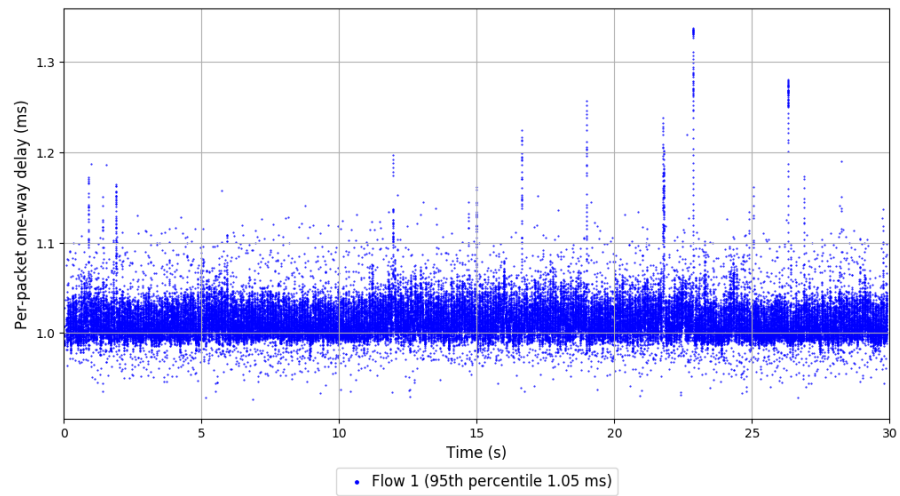
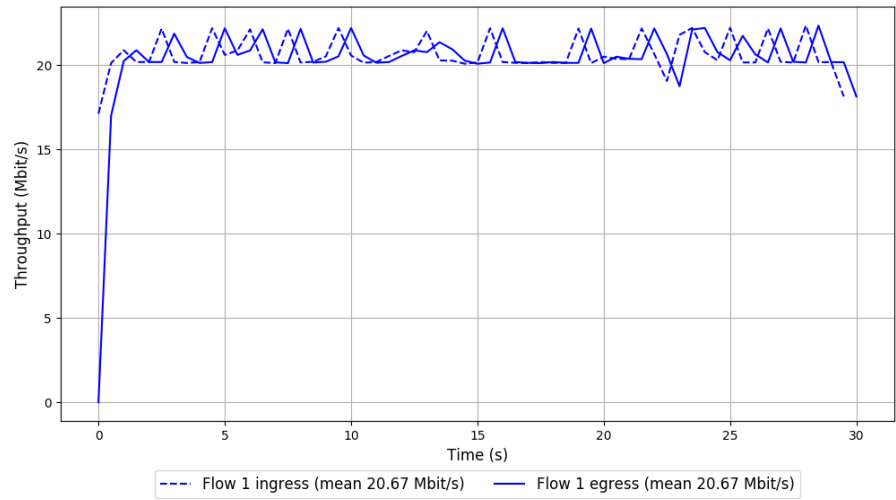
-- Flow 1:

Average throughput: 20.67 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-18 05:24:27

End at: 2018-07-18 05:24:57

Local clock offset: 10.425 ms

Remote clock offset: 1.598 ms

Below is generated by plot.py at 2018-07-18 07:13:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 0.888 ms

Loss rate: 0.00%

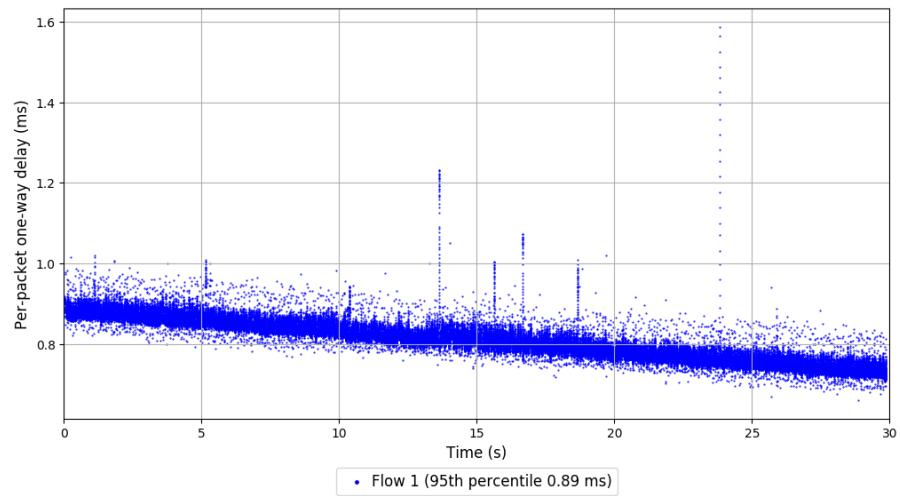
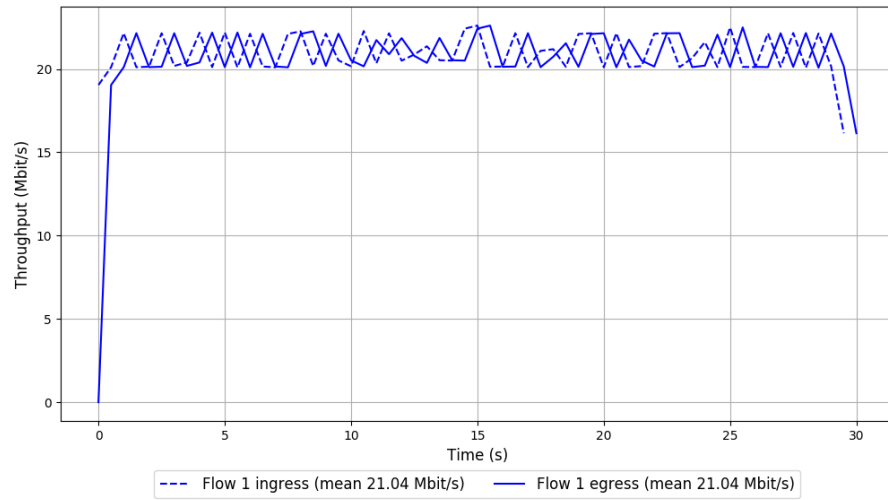
-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 0.888 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

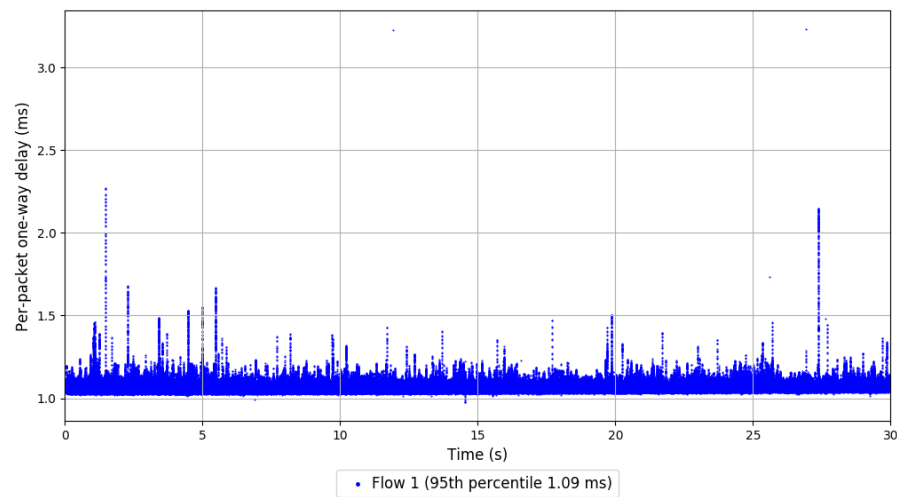
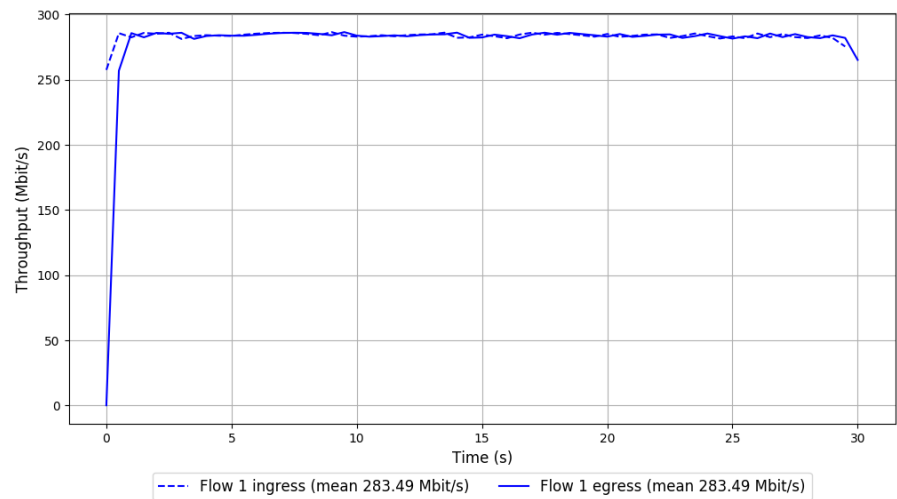


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-18 01:08:27
End at: 2018-07-18 01:08:57
Local clock offset: 1.202 ms
Remote clock offset: 0.672 ms

# Below is generated by plot.py at 2018-07-18 07:16:15
# Datalink statistics
-- Total of 1 flow:
Average throughput: 283.49 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 283.49 Mbit/s
95th percentile per-packet one-way delay: 1.092 ms
Loss rate: 0.06%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-18 01:34:23

End at: 2018-07-18 01:34:53

Local clock offset: 1.059 ms

Remote clock offset: 1.582 ms

Below is generated by plot.py at 2018-07-18 07:16:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.09 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.06%

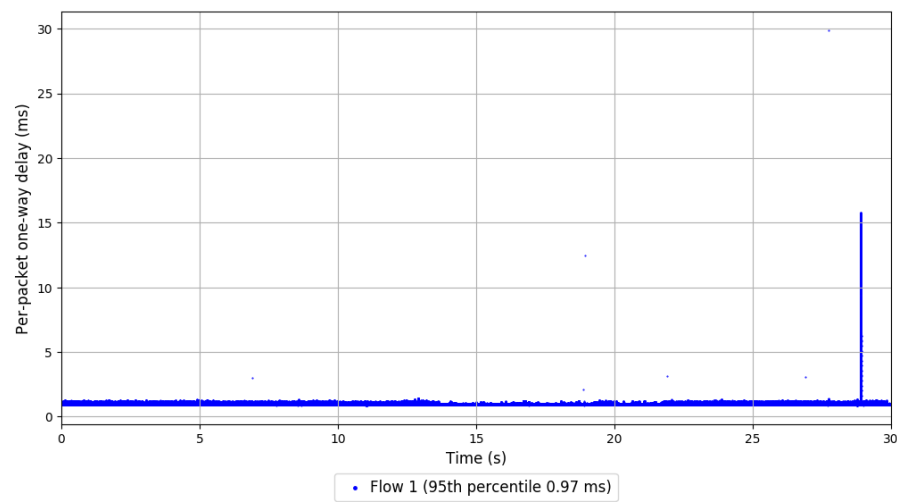
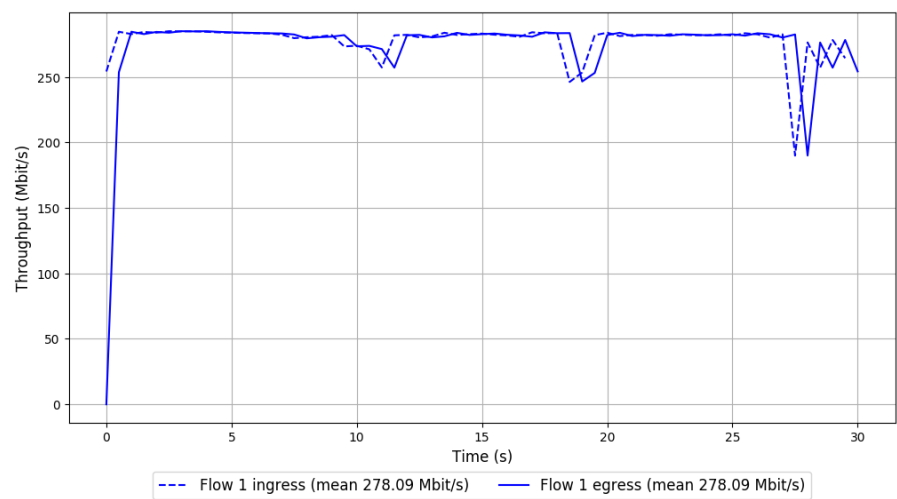
-- Flow 1:

Average throughput: 278.09 Mbit/s

95th percentile per-packet one-way delay: 0.975 ms

Loss rate: 0.06%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-07-18 02:00:20

End at: 2018-07-18 02:00:50

Local clock offset: 0.374 ms

Remote clock offset: 2.351 ms

Below is generated by plot.py at 2018-07-18 07:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.85 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.07%

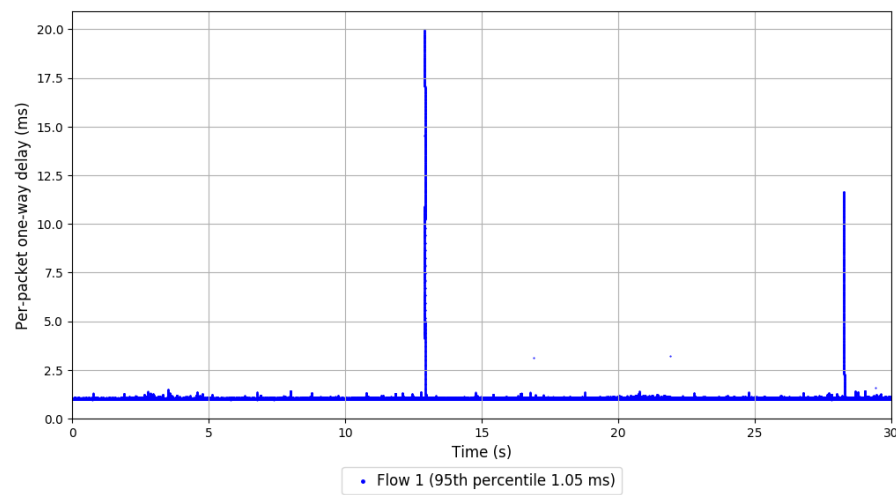
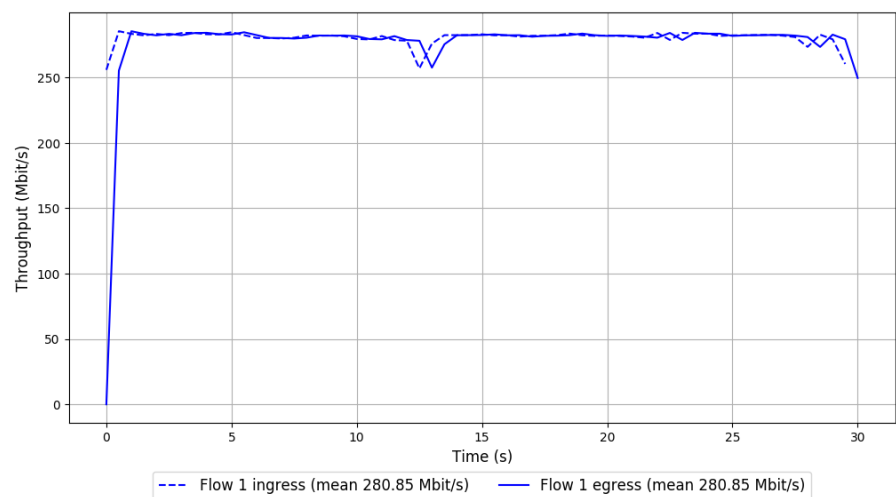
-- Flow 1:

Average throughput: 280.85 Mbit/s

95th percentile per-packet one-way delay: 1.049 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-18 02:26:11

End at: 2018-07-18 02:26:41

Local clock offset: 1.148 ms

Remote clock offset: 2.871 ms

Below is generated by plot.py at 2018-07-18 07:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.06 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 0.06%

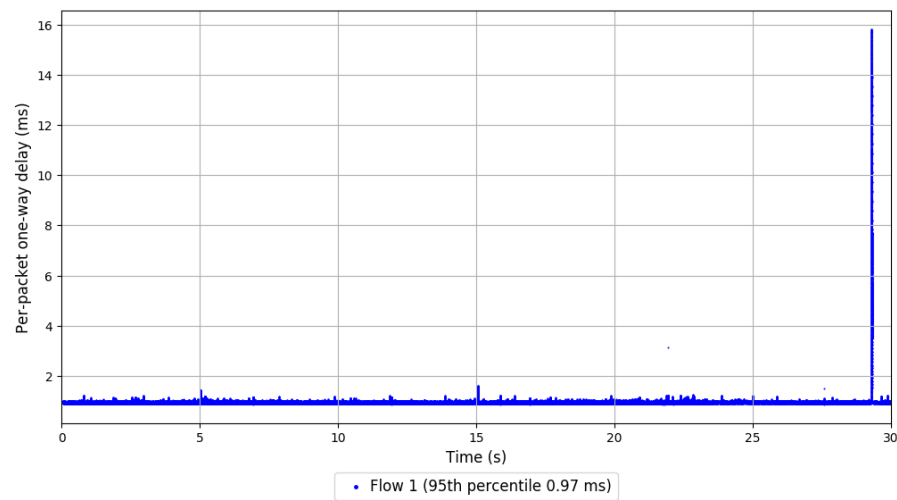
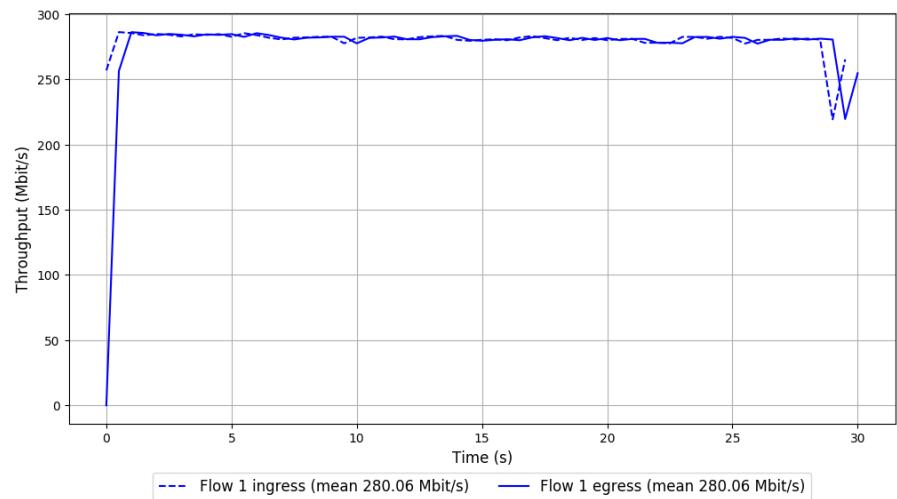
-- Flow 1:

Average throughput: 280.06 Mbit/s

95th percentile per-packet one-way delay: 0.971 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-07-18 02:52:11

End at: 2018-07-18 02:52:41

Local clock offset: 0.906 ms

Remote clock offset: 2.82 ms

Below is generated by plot.py at 2018-07-18 07:19:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.16 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.07%

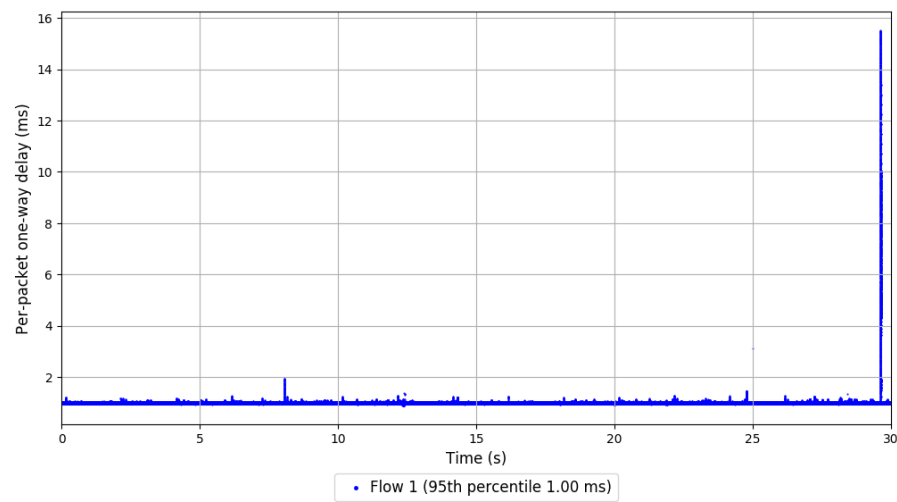
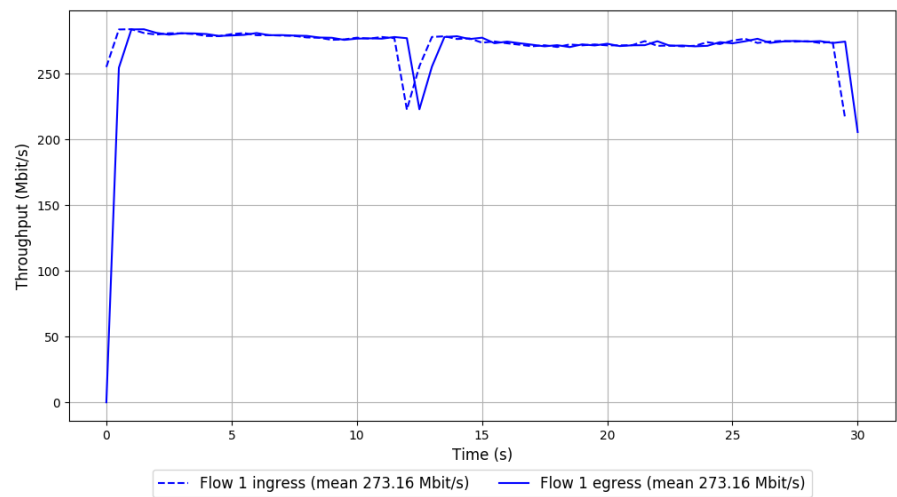
-- Flow 1:

Average throughput: 273.16 Mbit/s

95th percentile per-packet one-way delay: 0.999 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-18 03:17:59

End at: 2018-07-18 03:18:29

Local clock offset: 0.631 ms

Remote clock offset: 2.635 ms

Below is generated by plot.py at 2018-07-18 07:19:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 280.07 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.06%

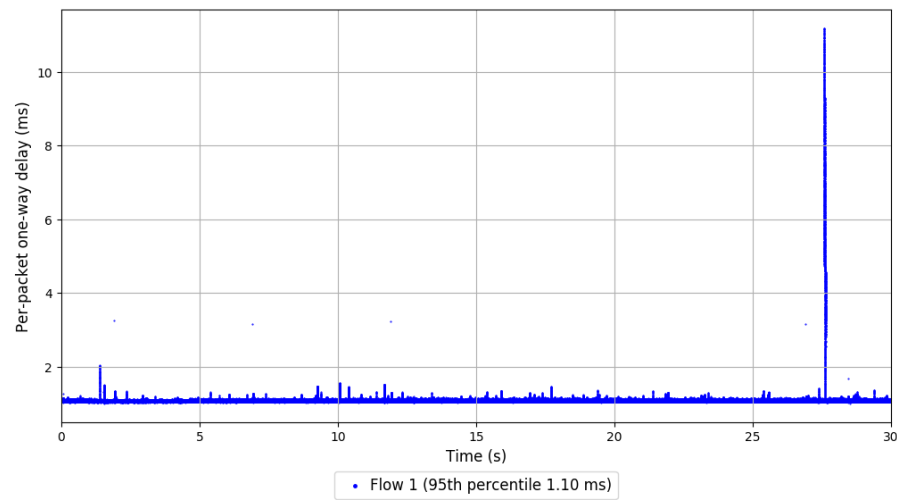
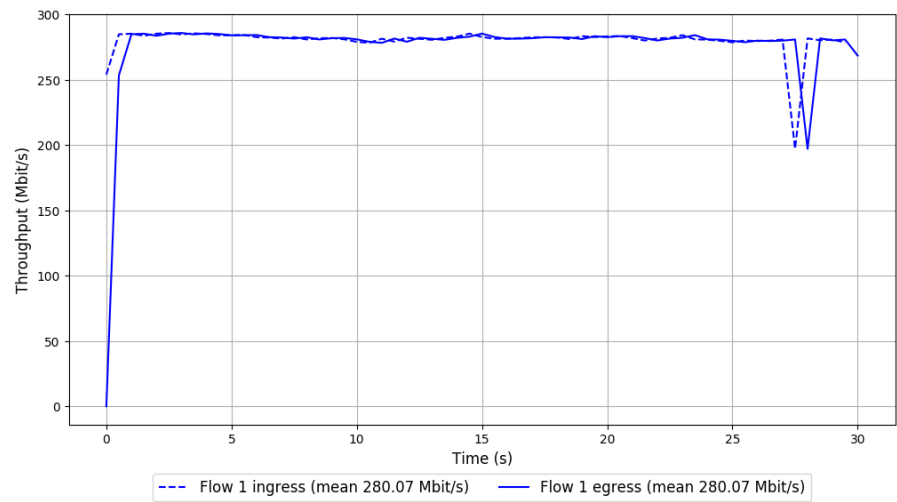
-- Flow 1:

Average throughput: 280.07 Mbit/s

95th percentile per-packet one-way delay: 1.101 ms

Loss rate: 0.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-07-18 03:43:52

End at: 2018-07-18 03:44:22

Local clock offset: 0.112 ms

Remote clock offset: 2.664 ms

Below is generated by plot.py at 2018-07-18 07:19:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.14 Mbit/s

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

Loss rate: 0.06%

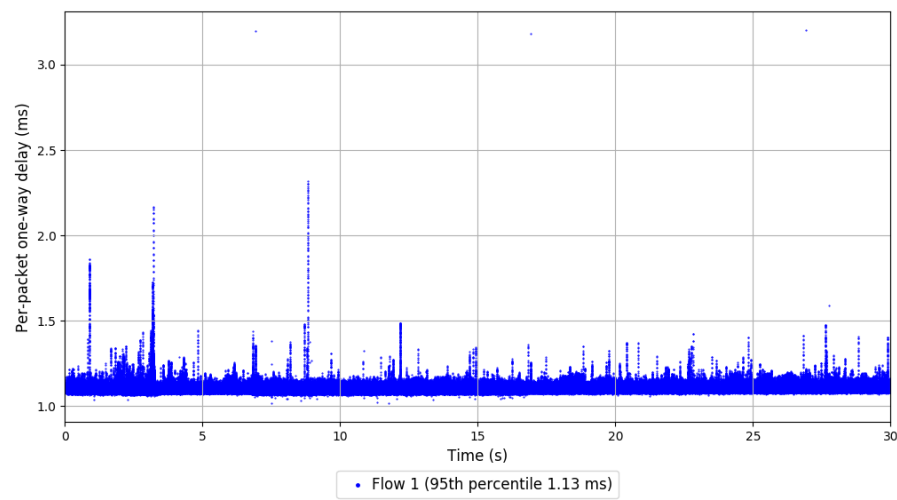
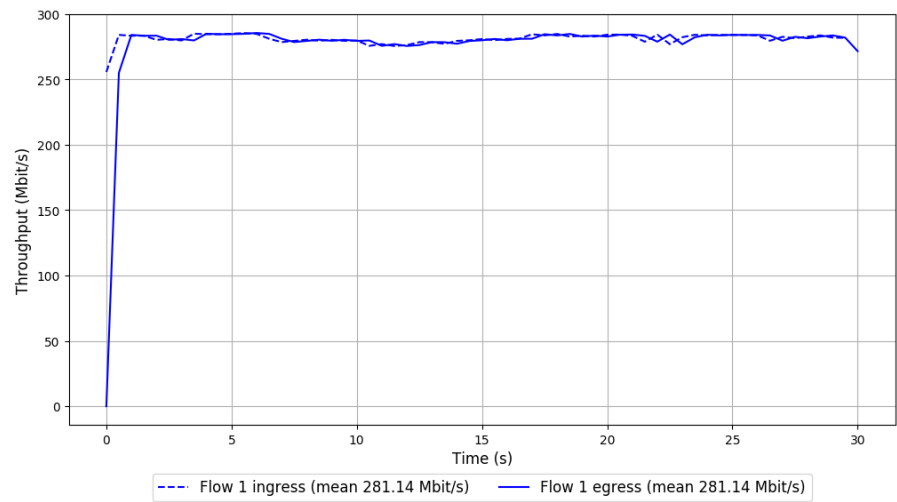
-- Flow 1:

Average throughput: 281.14 Mbit/s

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

Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-18 04:09:46

End at: 2018-07-18 04:10:16

Local clock offset: 0.118 ms

Remote clock offset: 2.732 ms

Below is generated by plot.py at 2018-07-18 07:19:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.01%

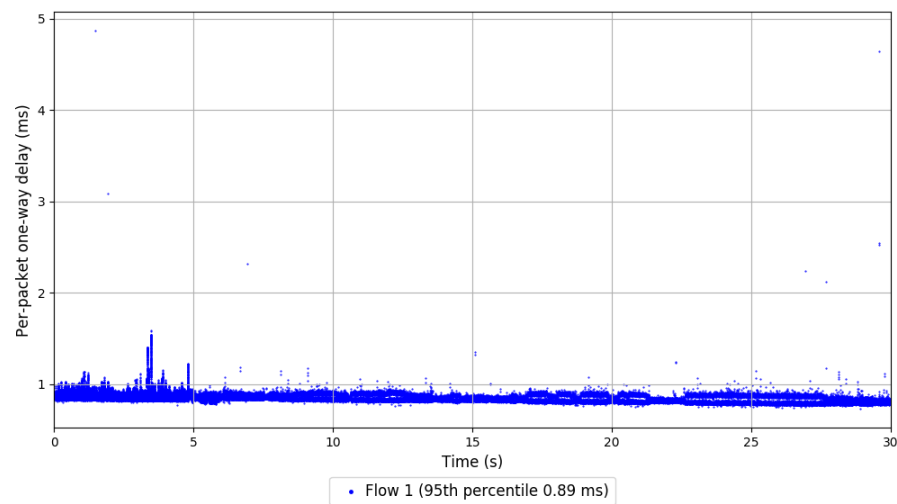
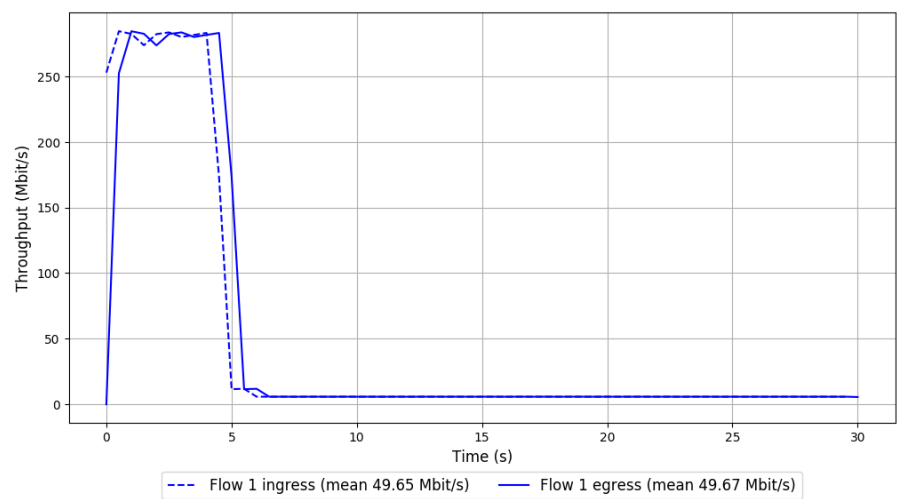
-- Flow 1:

Average throughput: 49.67 Mbit/s

95th percentile per-packet one-way delay: 0.894 ms

Loss rate: 0.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-18 04:35:33

End at: 2018-07-18 04:36:03

Local clock offset: 1.34 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2018-07-18 07:21:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.74 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.07%

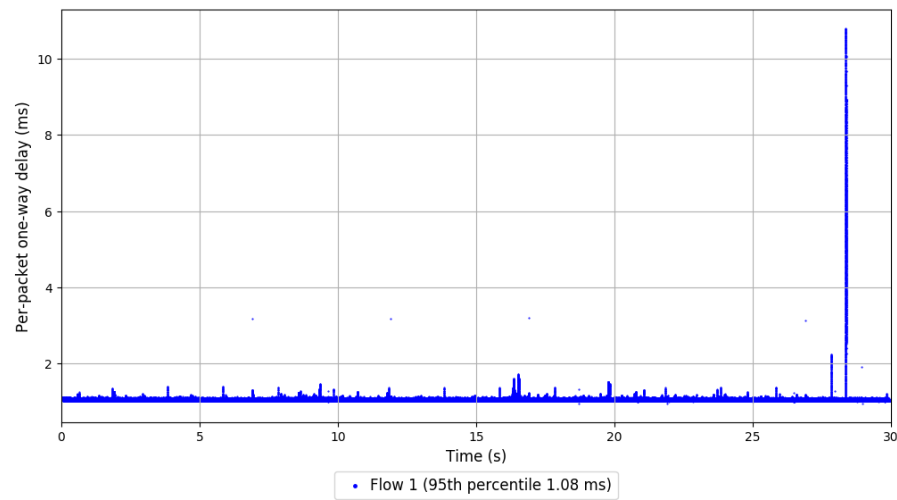
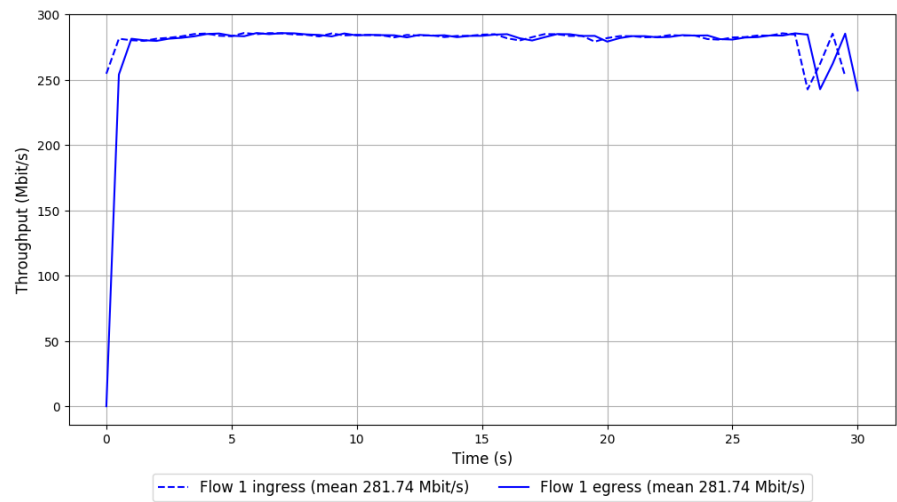
-- Flow 1:

Average throughput: 281.74 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.07%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-18 05:01:33

End at: 2018-07-18 05:02:03

Local clock offset: 0.858 ms

Remote clock offset: 1.959 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 281.98 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.07%

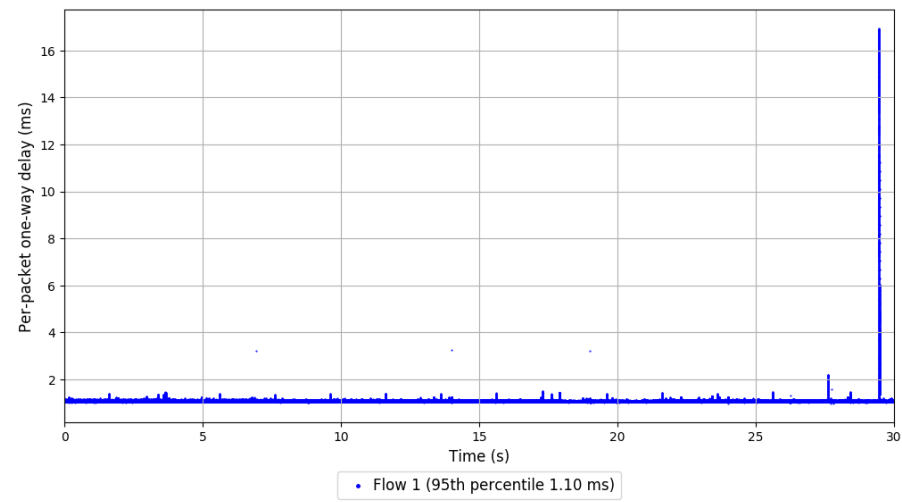
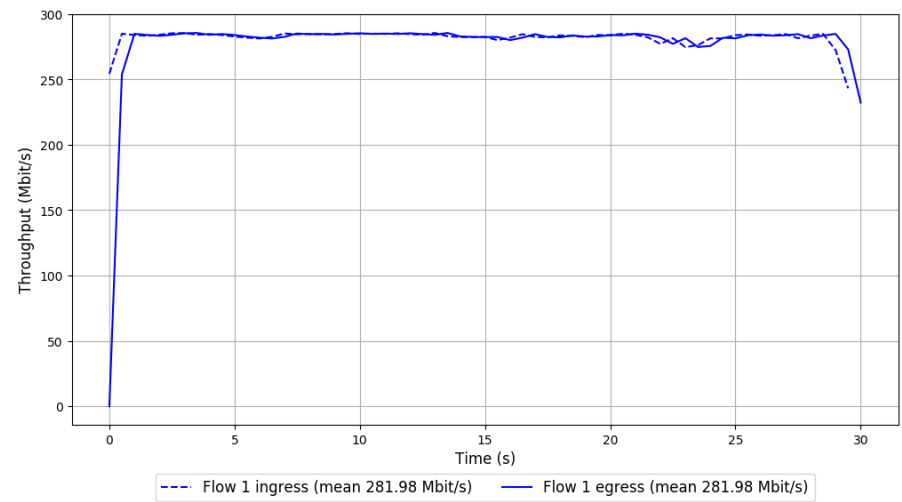
-- Flow 1:

Average throughput: 281.98 Mbit/s

95th percentile per-packet one-way delay: 1.098 ms

Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-18 01:16:33

End at: 2018-07-18 01:17:03

Local clock offset: 1.13 ms

Remote clock offset: 0.903 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.45 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.06%

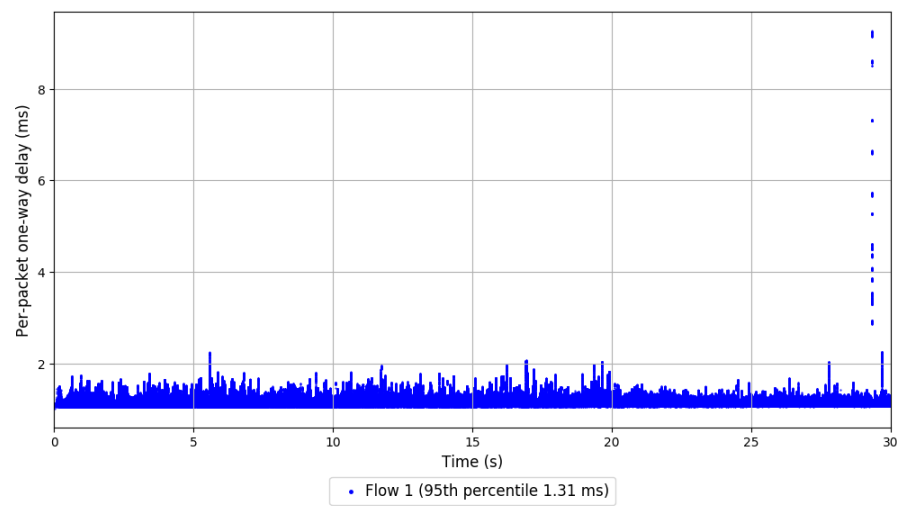
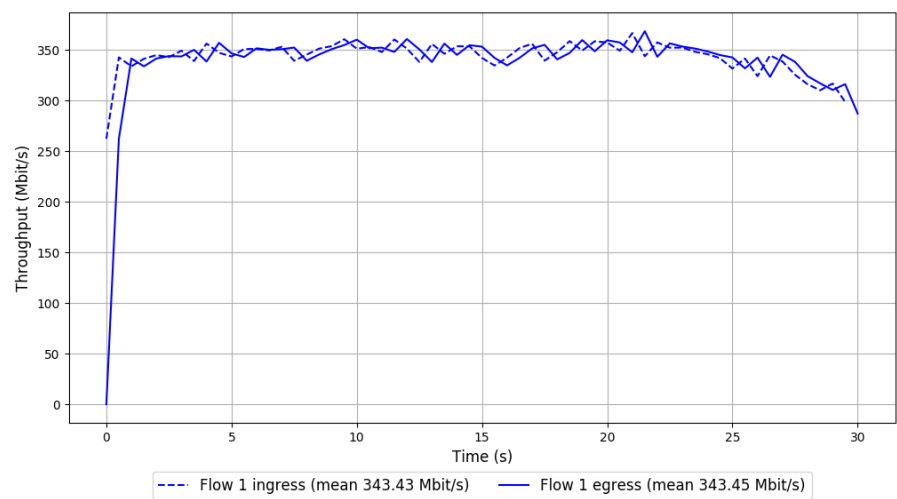
-- Flow 1:

Average throughput: 343.45 Mbit/s

95th percentile per-packet one-way delay: 1.308 ms

Loss rate: 0.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-18 01:42:27

End at: 2018-07-18 01:42:57

Local clock offset: 0.841 ms

Remote clock offset: 1.829 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 257.23 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.03%

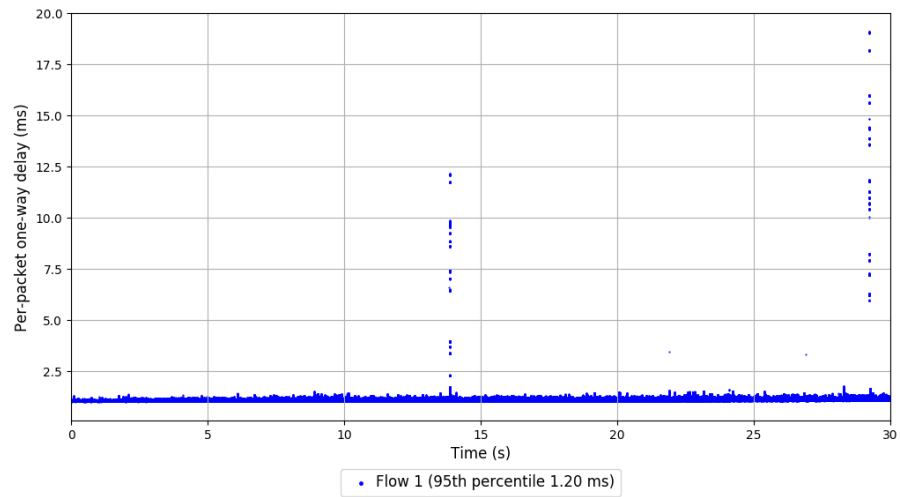
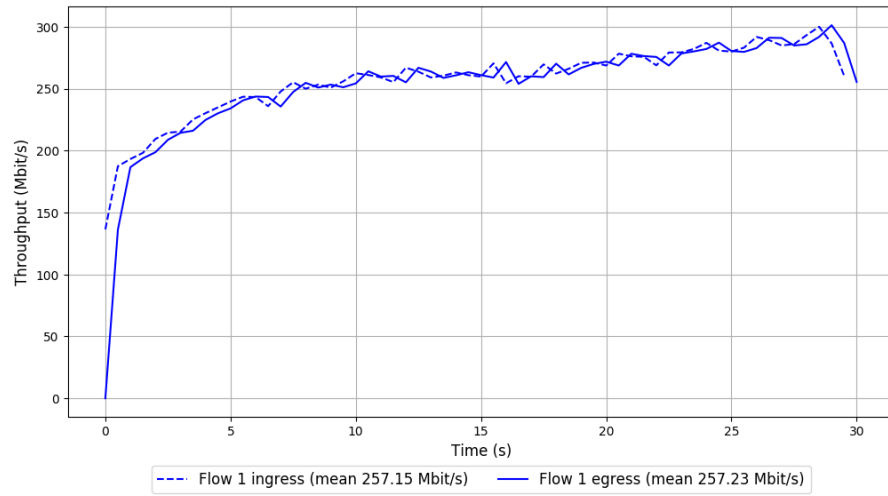
-- Flow 1:

Average throughput: 257.23 Mbit/s

95th percentile per-packet one-way delay: 1.204 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-18 02:08:19

End at: 2018-07-18 02:08:49

Local clock offset: 0.267 ms

Remote clock offset: 2.469 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.11 Mbit/s

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

Loss rate: 0.01%

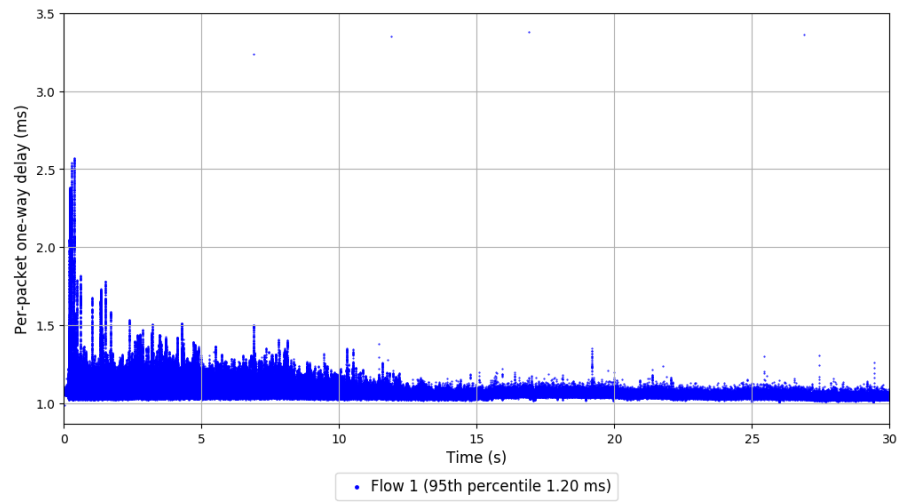
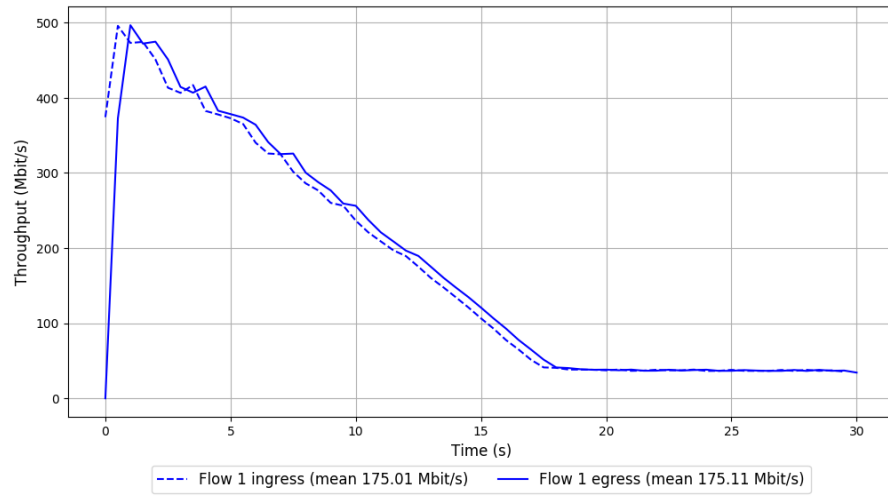
-- Flow 1:

Average throughput: 175.11 Mbit/s

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

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-18 02:34:16

End at: 2018-07-18 02:34:46

Local clock offset: 1.259 ms

Remote clock offset: 2.912 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.30 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.06%

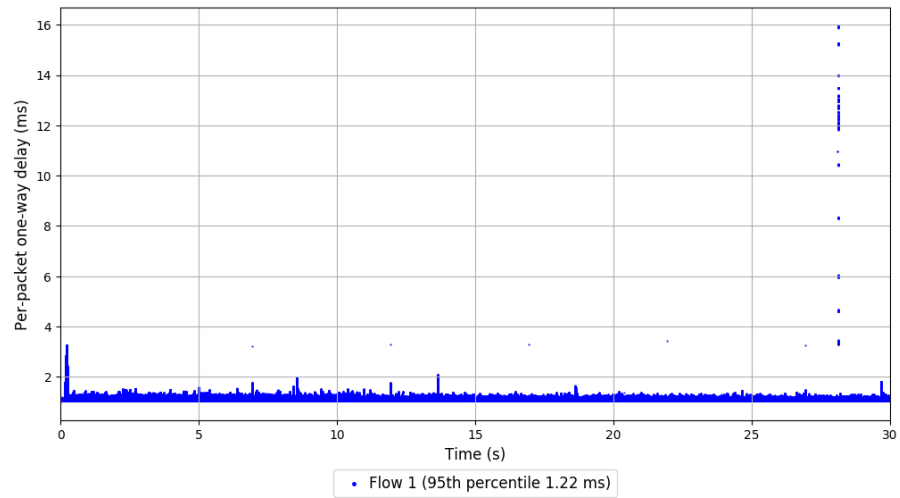
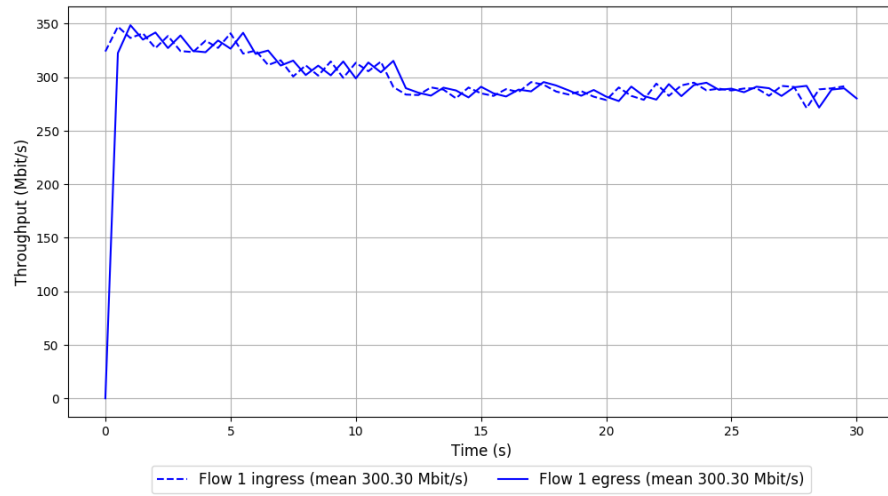
-- Flow 1:

Average throughput: 300.30 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.06%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-18 03:00:13

End at: 2018-07-18 03:00:43

Local clock offset: 0.83 ms

Remote clock offset: 2.709 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.43 Mbit/s

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

Loss rate: 0.06%

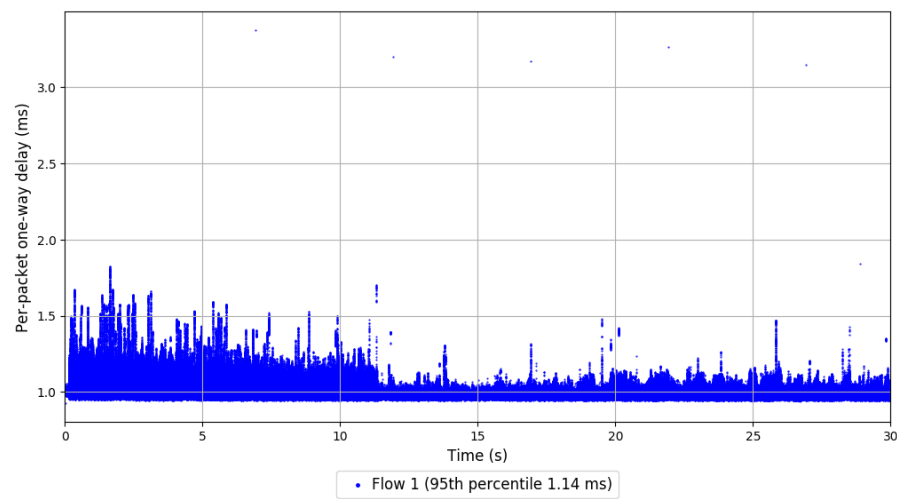
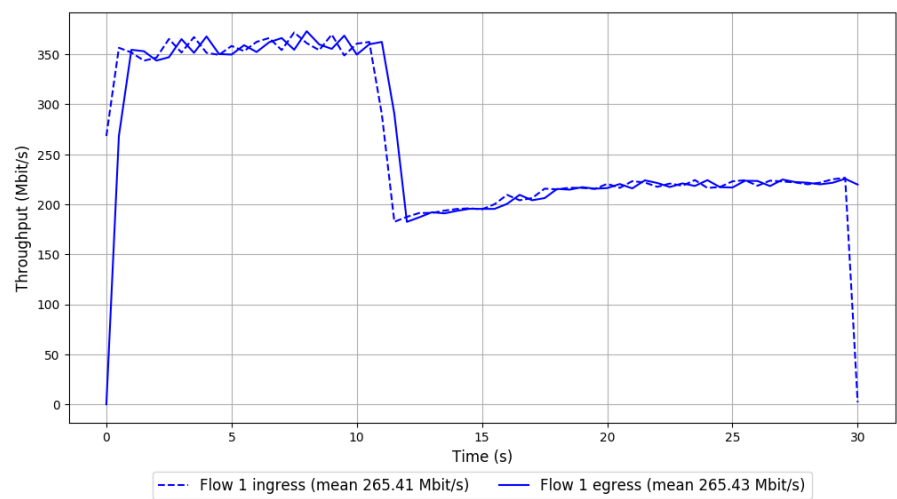
-- Flow 1:

Average throughput: 265.43 Mbit/s

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

Loss rate: 0.06%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-07-18 03:26:04

End at: 2018-07-18 03:26:34

Local clock offset: 0.407 ms

Remote clock offset: 2.767 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.70 Mbit/s

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

Loss rate: 0.01%

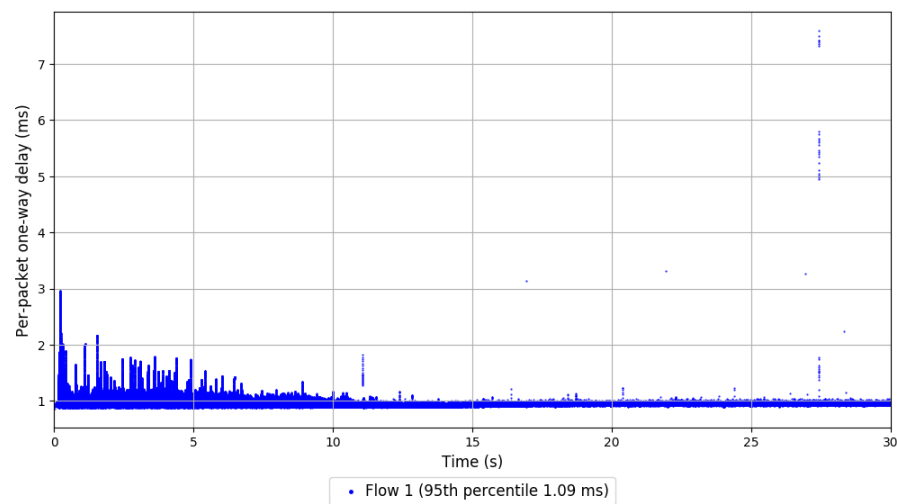
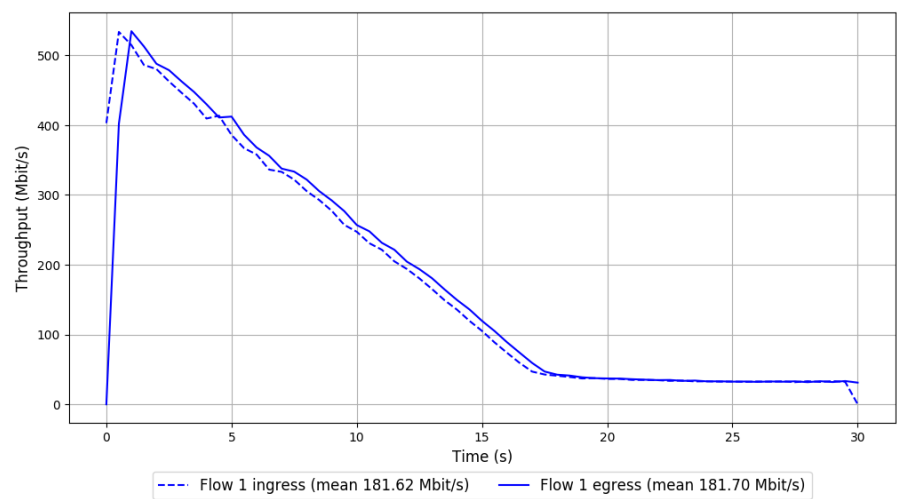
-- Flow 1:

Average throughput: 181.70 Mbit/s

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

Loss rate: 0.01%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-18 03:51:59

End at: 2018-07-18 03:52:29

Local clock offset: -0.132 ms

Remote clock offset: 2.676 ms

Below is generated by plot.py at 2018-07-18 07:22:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.88 Mbit/s

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

Loss rate: 0.02%

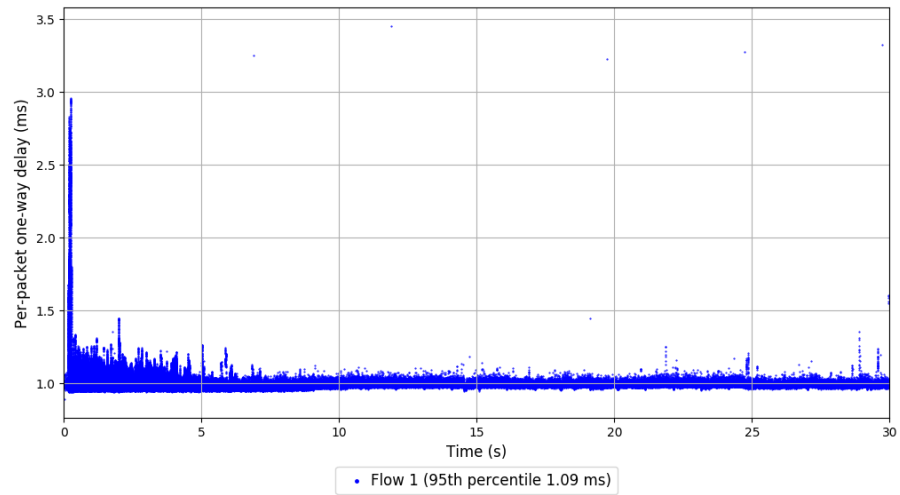
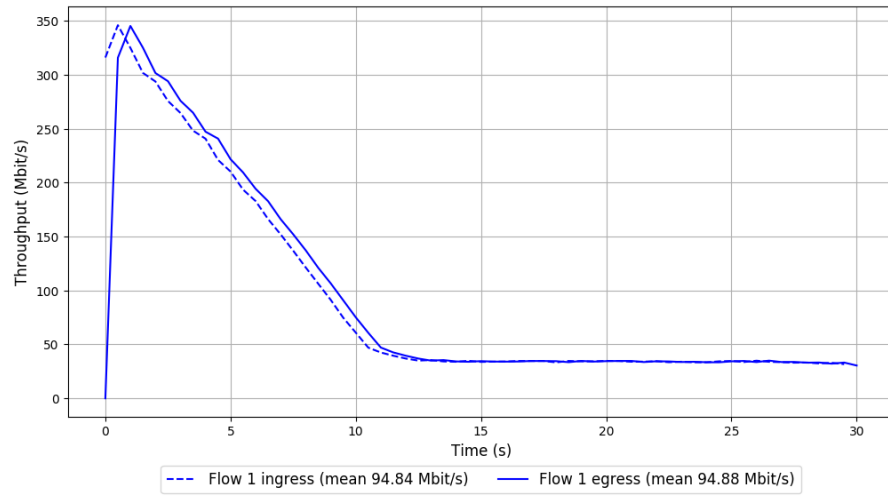
-- Flow 1:

Average throughput: 94.88 Mbit/s

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

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-18 04:17:36

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

Local clock offset: 0.819 ms

Remote clock offset: 2.55 ms

Below is generated by plot.py at 2018-07-18 07:23:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 307.54 Mbit/s

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

Loss rate: 0.07%

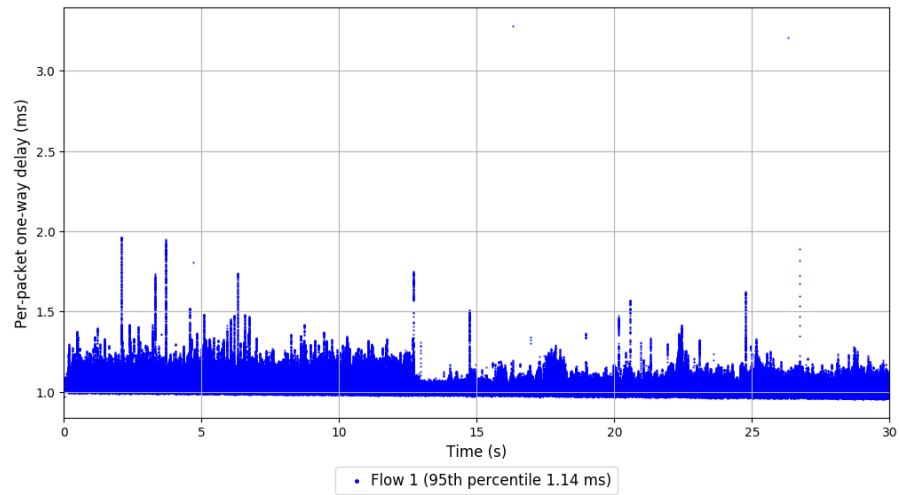
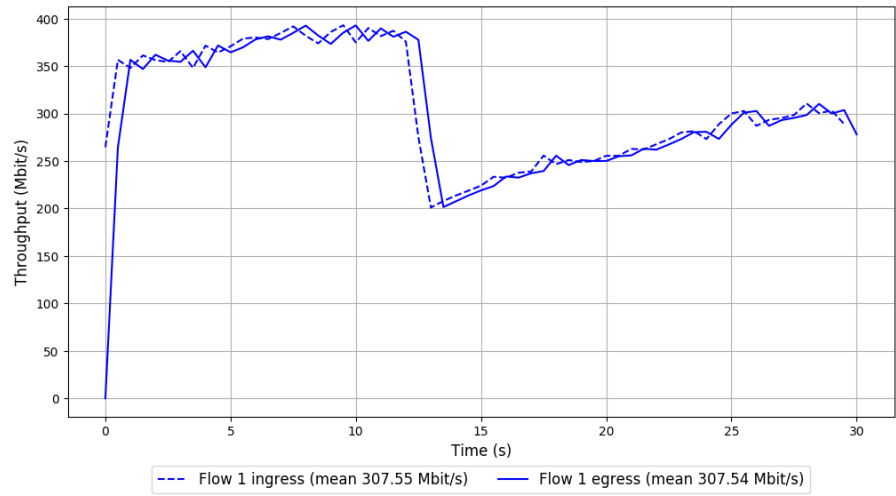
-- Flow 1:

Average throughput: 307.54 Mbit/s

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

Loss rate: 0.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-18 04:43:40

End at: 2018-07-18 04:44:10

Local clock offset: 1.203 ms

Remote clock offset: 2.286 ms

Below is generated by plot.py at 2018-07-18 07:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.64 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.05%

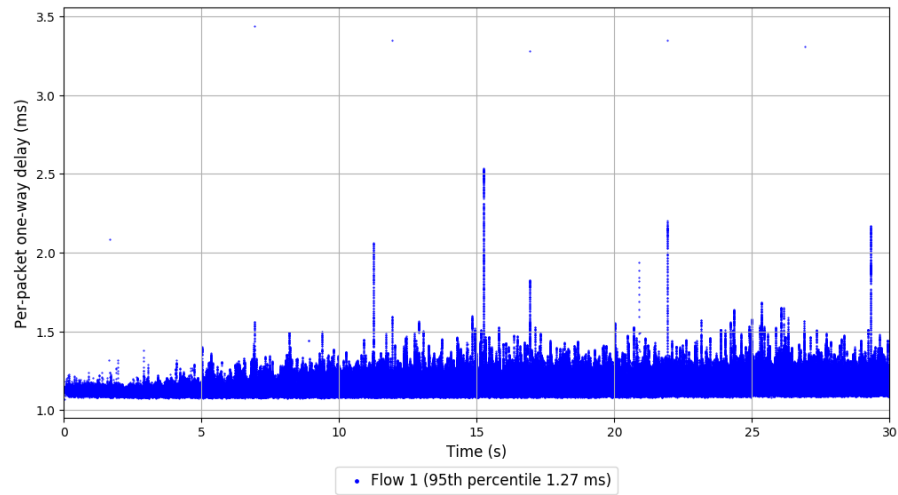
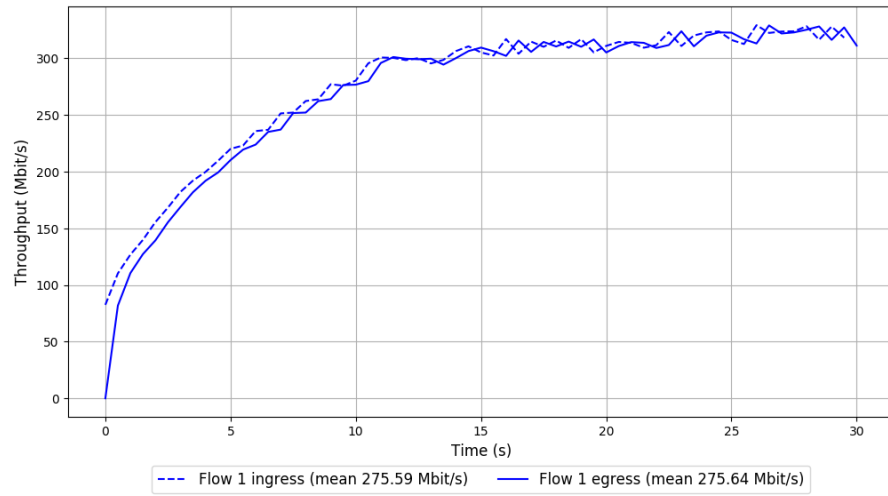
-- Flow 1:

Average throughput: 275.64 Mbit/s

95th percentile per-packet one-way delay: 1.270 ms

Loss rate: 0.05%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-18 05:09:39

End at: 2018-07-18 05:10:09

Local clock offset: 1.531 ms

Remote clock offset: 1.876 ms

Below is generated by plot.py at 2018-07-18 07:23:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 0.328 ms

Loss rate: 0.03%

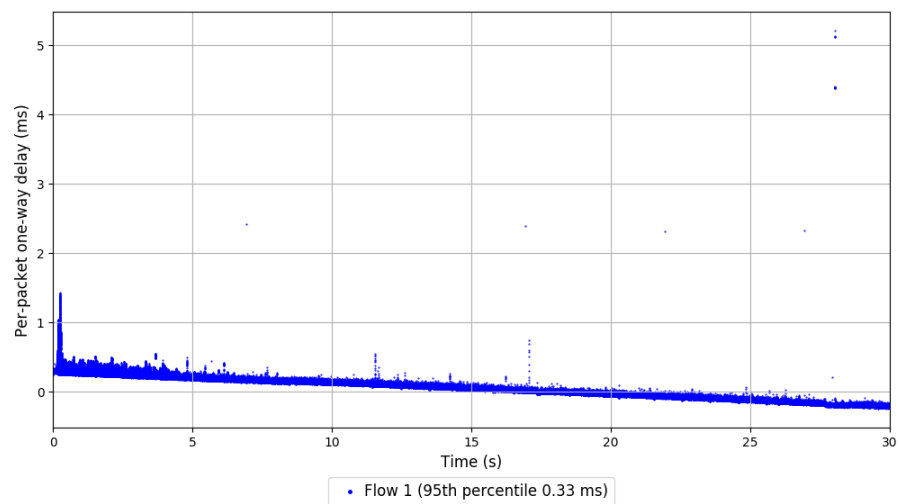
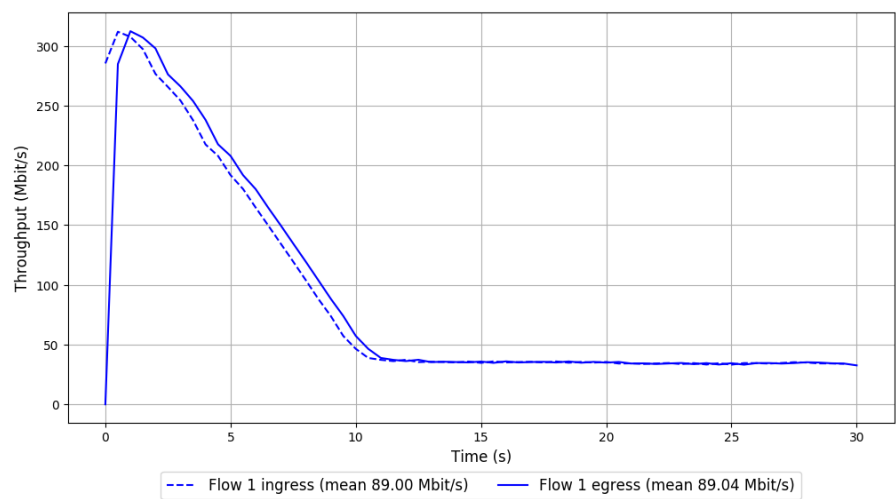
-- Flow 1:

Average throughput: 89.04 Mbit/s

95th percentile per-packet one-way delay: 0.328 ms

Loss rate: 0.03%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-18 01:22:42

End at: 2018-07-18 01:23:12

Local clock offset: 1.111 ms

Remote clock offset: 1.114 ms

Below is generated by plot.py at 2018-07-18 07:23:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 247.56 Mbit/s

95th percentile per-packet one-way delay: 5.031 ms

Loss rate: 0.12%

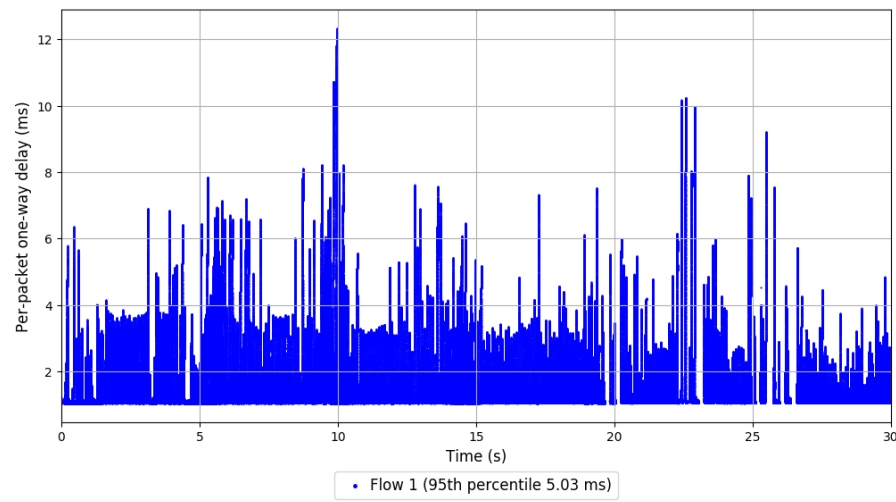
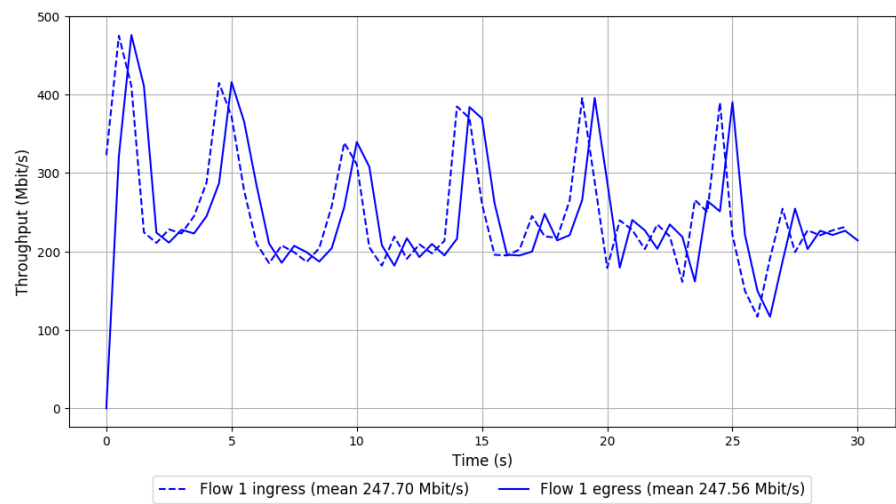
-- Flow 1:

Average throughput: 247.56 Mbit/s

95th percentile per-packet one-way delay: 5.031 ms

Loss rate: 0.12%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-18 01:48:36

End at: 2018-07-18 01:49:06

Local clock offset: 0.644 ms

Remote clock offset: 1.986 ms

Below is generated by plot.py at 2018-07-18 07:24:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.62 Mbit/s

95th percentile per-packet one-way delay: 5.007 ms

Loss rate: 0.00%

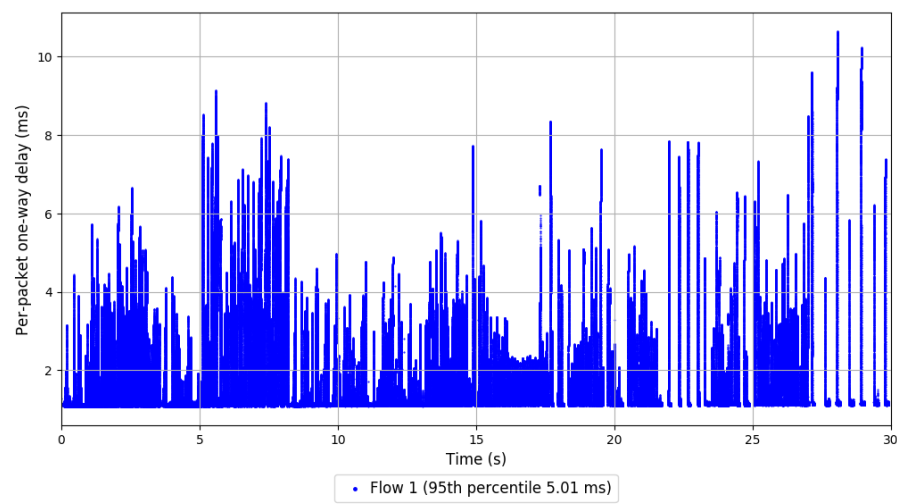
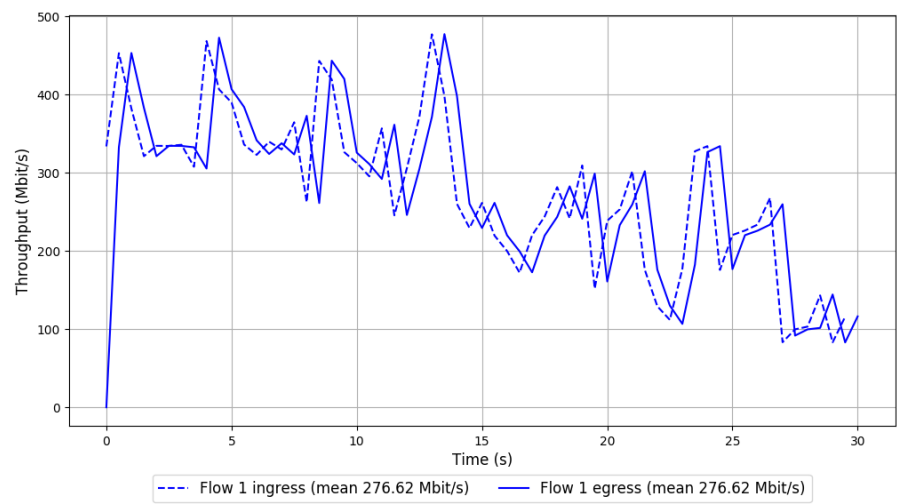
-- Flow 1:

Average throughput: 276.62 Mbit/s

95th percentile per-packet one-way delay: 5.007 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-18 02:14:26

End at: 2018-07-18 02:14:56

Local clock offset: 0.721 ms

Remote clock offset: 2.549 ms

Below is generated by plot.py at 2018-07-18 07:25:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.34 Mbit/s

95th percentile per-packet one-way delay: 7.224 ms

Loss rate: 0.00%

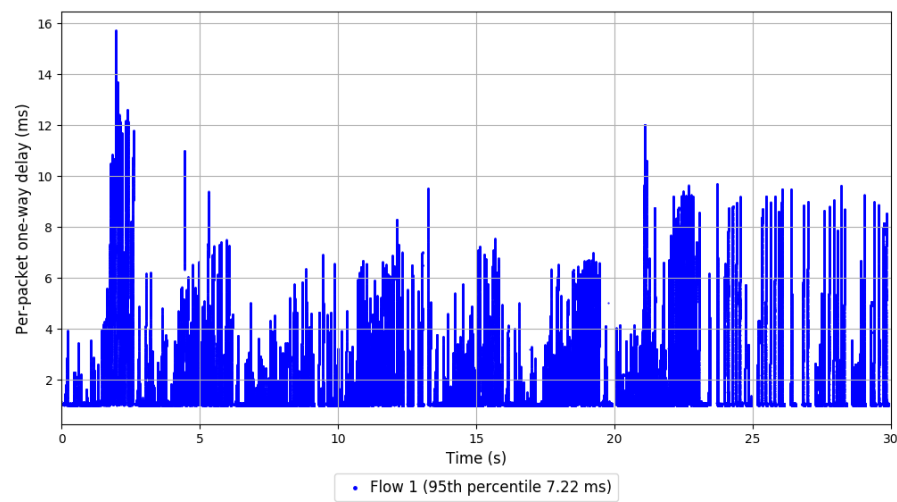
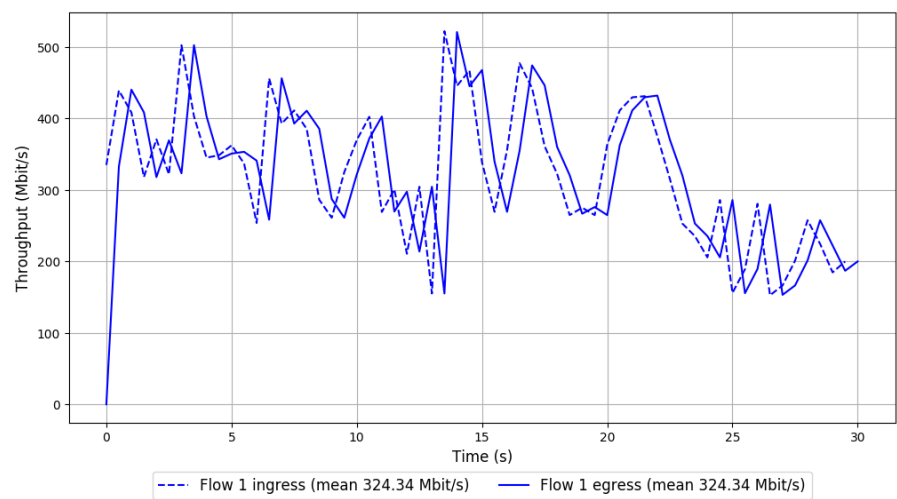
-- Flow 1:

Average throughput: 324.34 Mbit/s

95th percentile per-packet one-way delay: 7.224 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-07-18 02:40:26

End at: 2018-07-18 02:40:56

Local clock offset: 1.228 ms

Remote clock offset: 2.927 ms

Below is generated by plot.py at 2018-07-18 07:25:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.19 Mbit/s

95th percentile per-packet one-way delay: 5.967 ms

Loss rate: 0.00%

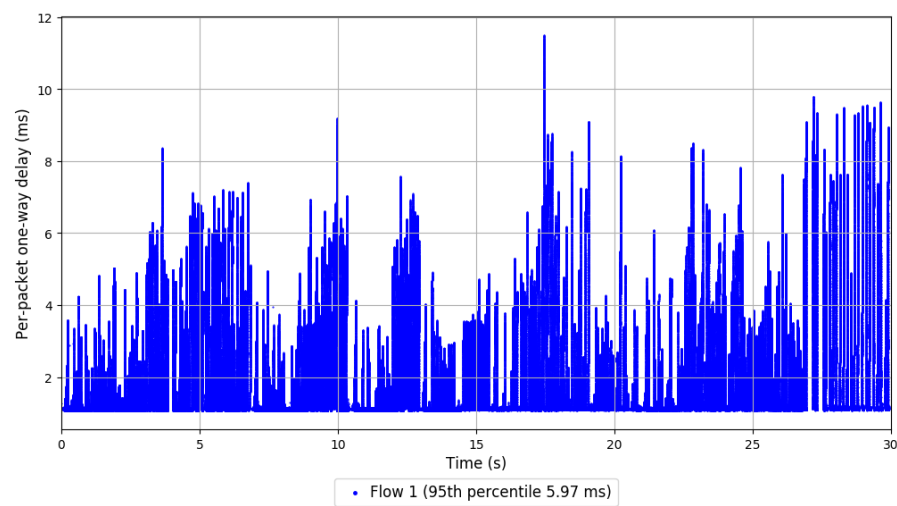
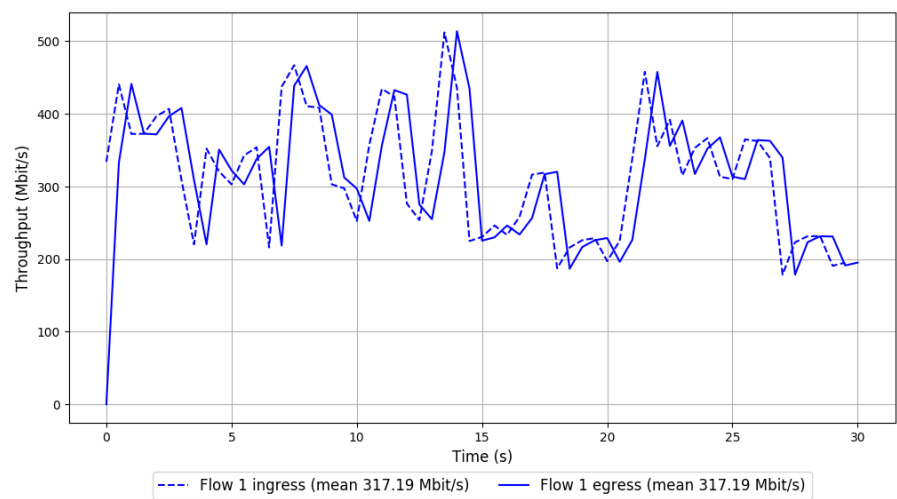
-- Flow 1:

Average throughput: 317.19 Mbit/s

95th percentile per-packet one-way delay: 5.967 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-07-18 03:06:14

End at: 2018-07-18 03:06:44

Local clock offset: 0.791 ms

Remote clock offset: 2.611 ms

Below is generated by plot.py at 2018-07-18 07:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.30 Mbit/s

95th percentile per-packet one-way delay: 4.683 ms

Loss rate: 0.02%

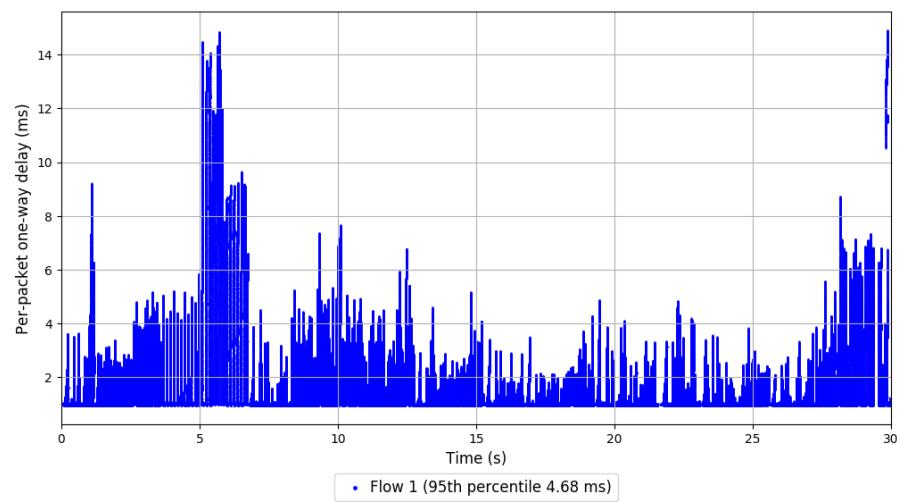
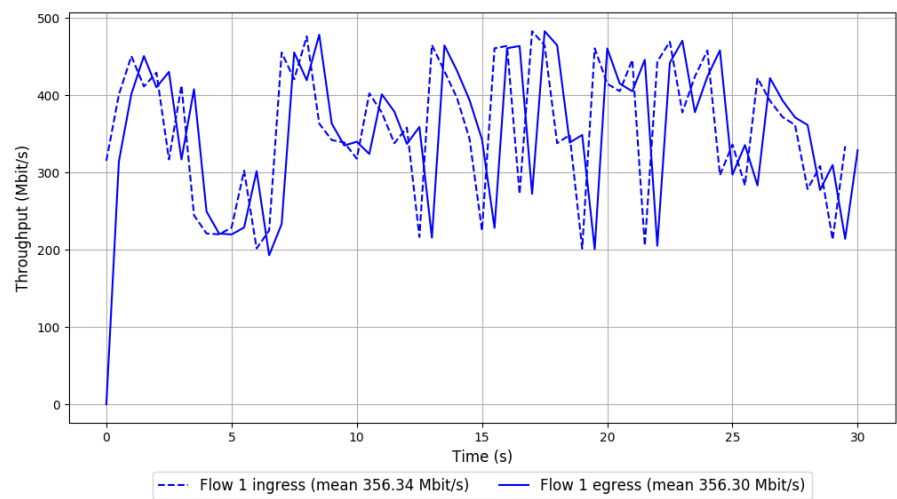
-- Flow 1:

Average throughput: 356.30 Mbit/s

95th percentile per-packet one-way delay: 4.683 ms

Loss rate: 0.02%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-07-18 03:32:10

End at: 2018-07-18 03:32:40

Local clock offset: 0.305 ms

Remote clock offset: 2.771 ms

Below is generated by plot.py at 2018-07-18 07:26:11

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 5.819 ms

Loss rate: 0.11%

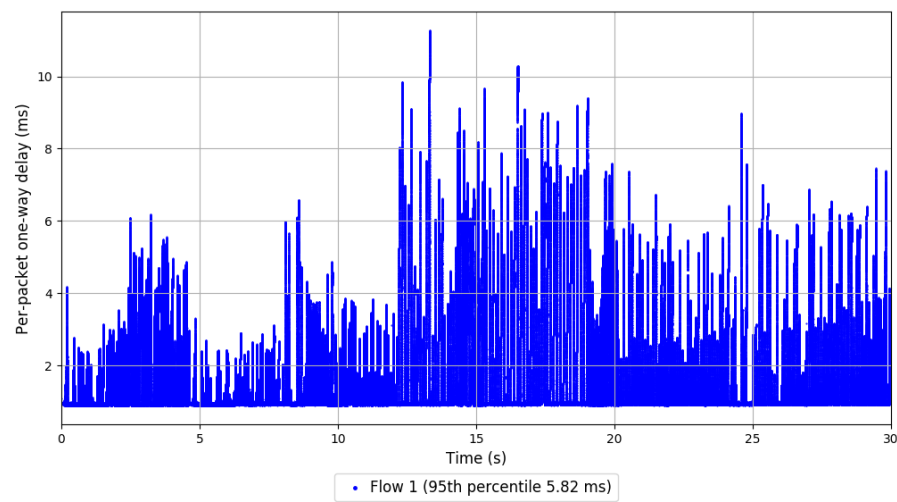
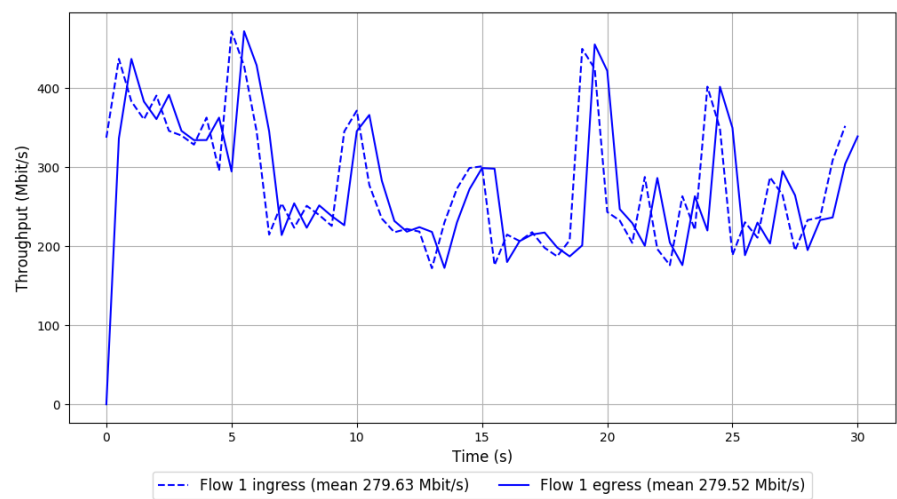
-- Flow 1:

Average throughput: 279.52 Mbit/s

95th percentile per-packet one-way delay: 5.819 ms

Loss rate: 0.11%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-18 03:58:01

End at: 2018-07-18 03:58:31

Local clock offset: -0.158 ms

Remote clock offset: 2.663 ms

Below is generated by plot.py at 2018-07-18 07:26:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 289.89 Mbit/s

95th percentile per-packet one-way delay: 5.002 ms

Loss rate: 0.11%

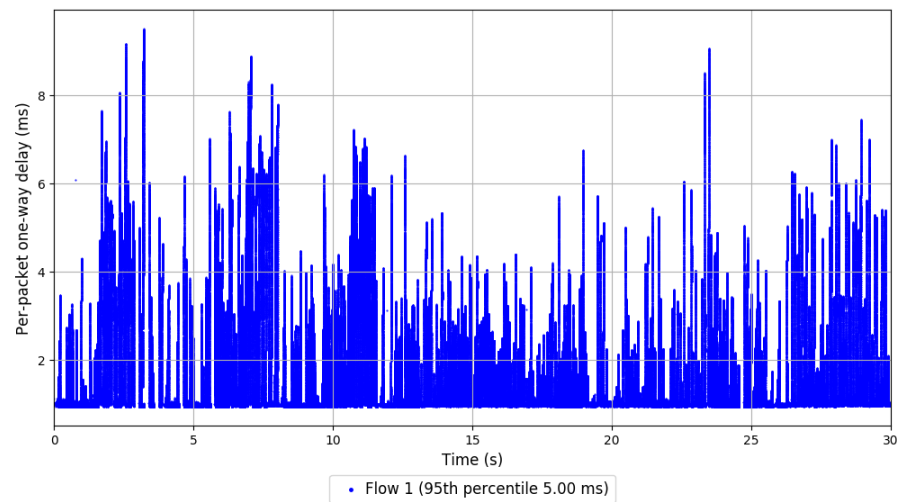
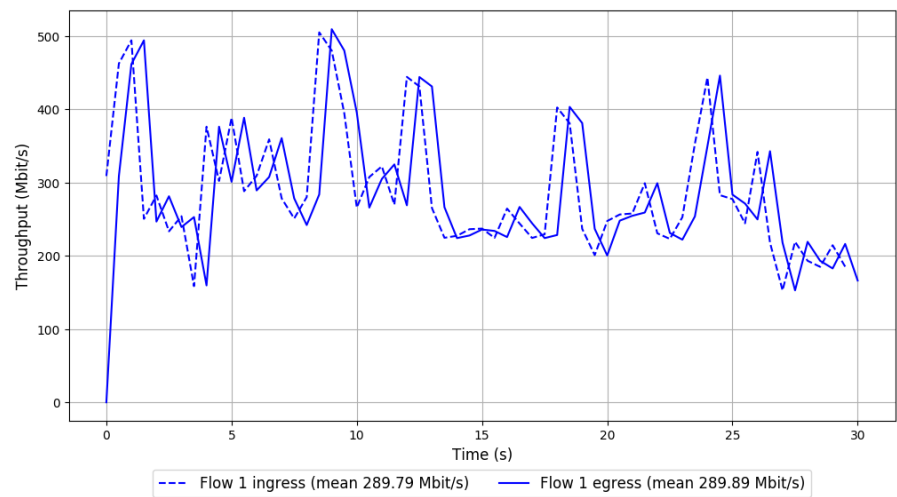
-- Flow 1:

Average throughput: 289.89 Mbit/s

95th percentile per-packet one-way delay: 5.002 ms

Loss rate: 0.11%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-18 04:23:46

End at: 2018-07-18 04:24:16

Local clock offset: 1.064 ms

Remote clock offset: 2.445 ms

Below is generated by plot.py at 2018-07-18 07:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 368.45 Mbit/s

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

Loss rate: 0.06%

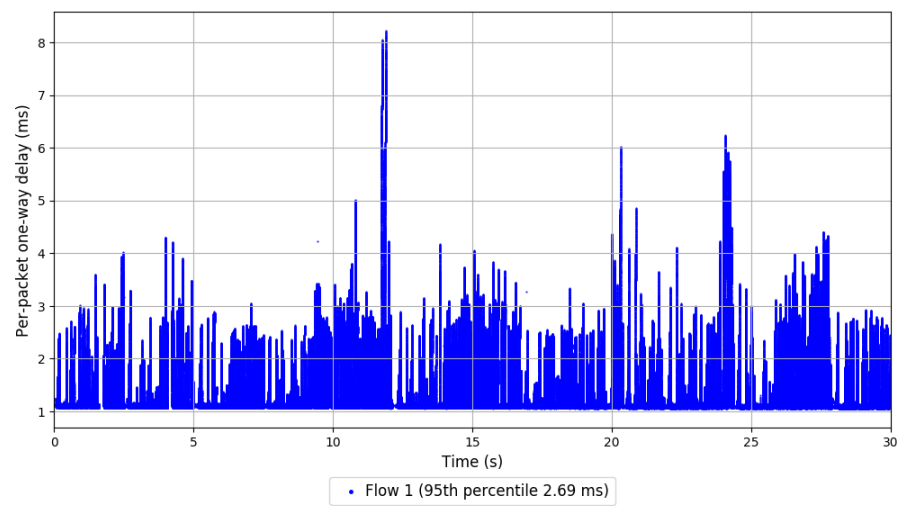
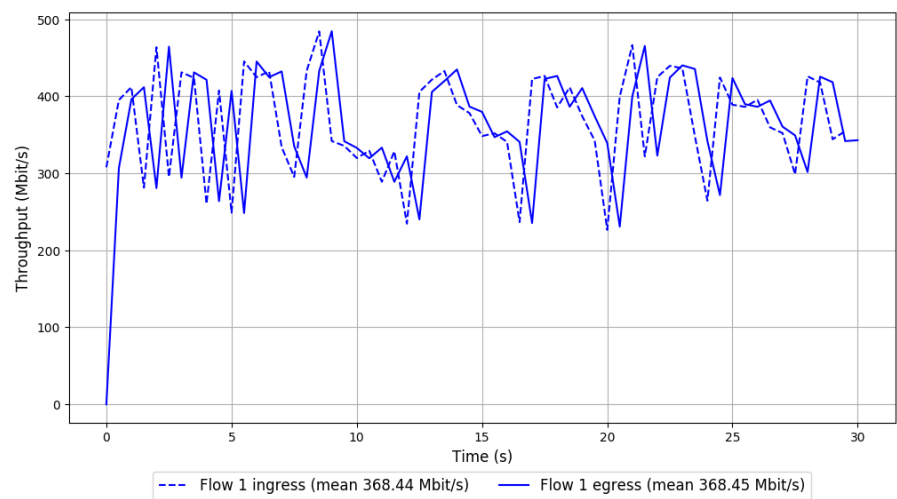
-- Flow 1:

Average throughput: 368.45 Mbit/s

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

Loss rate: 0.06%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-18 04:49:49

End at: 2018-07-18 04:50:19

Local clock offset: 0.905 ms

Remote clock offset: 2.177 ms

Below is generated by plot.py at 2018-07-18 07:27:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 296.18 Mbit/s

95th percentile per-packet one-way delay: 4.315 ms

Loss rate: 0.02%

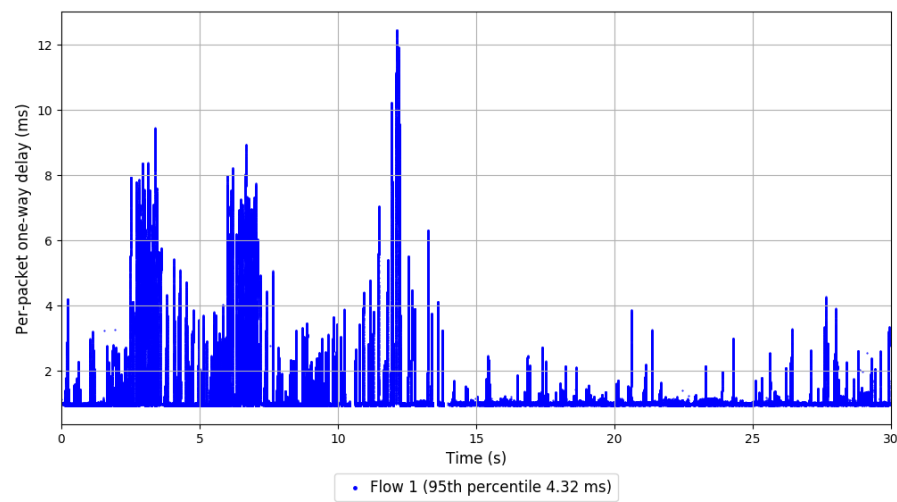
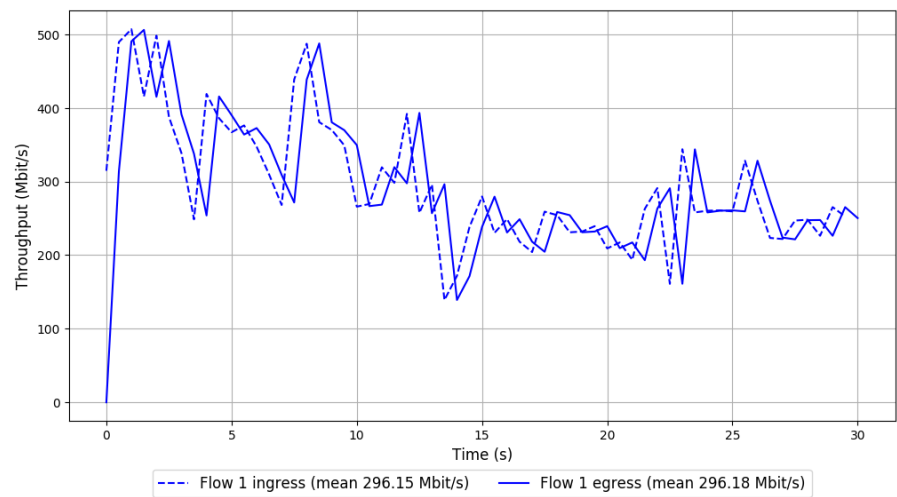
-- Flow 1:

Average throughput: 296.18 Mbit/s

95th percentile per-packet one-way delay: 4.315 ms

Loss rate: 0.02%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-18 05:15:42

End at: 2018-07-18 05:16:12

Local clock offset: 6.575 ms

Remote clock offset: 1.749 ms

Below is generated by plot.py at 2018-07-18 07:28:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.90 Mbit/s

95th percentile per-packet one-way delay: 4.844 ms

Loss rate: 0.08%

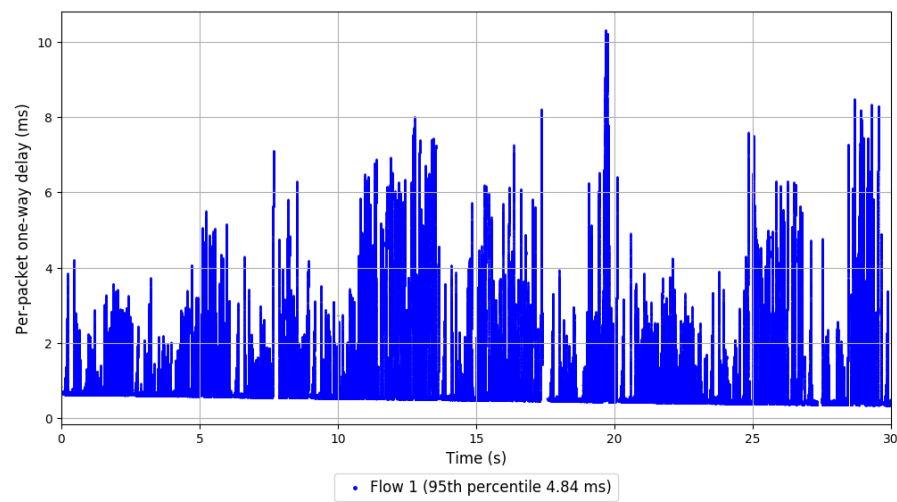
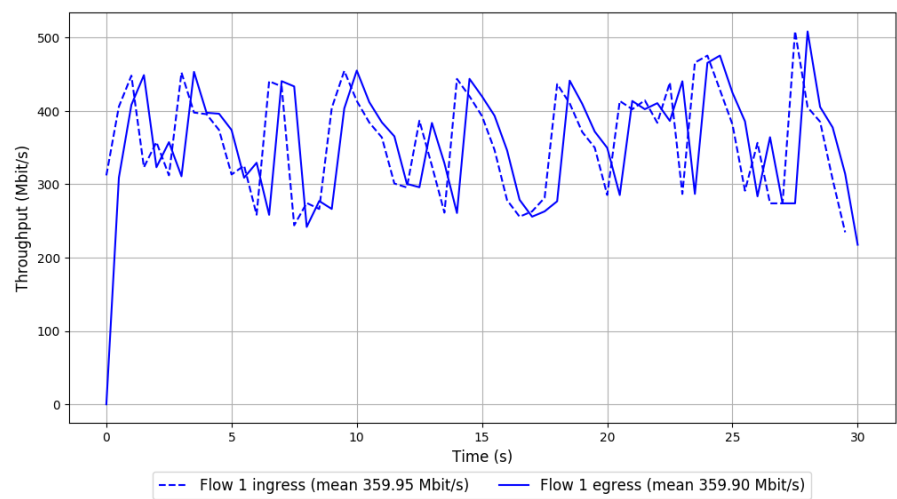
-- Flow 1:

Average throughput: 359.90 Mbit/s

95th percentile per-packet one-way delay: 4.844 ms

Loss rate: 0.08%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-07-18 01:21:06

End at: 2018-07-18 01:21:36

Local clock offset: 1.029 ms

Remote clock offset: 1.041 ms

Below is generated by plot.py at 2018-07-18 07:30:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 430.50 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.07%

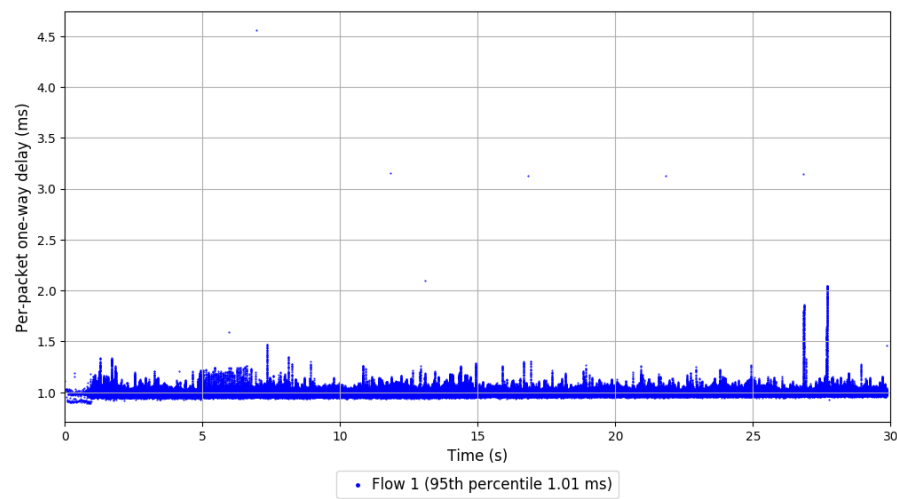
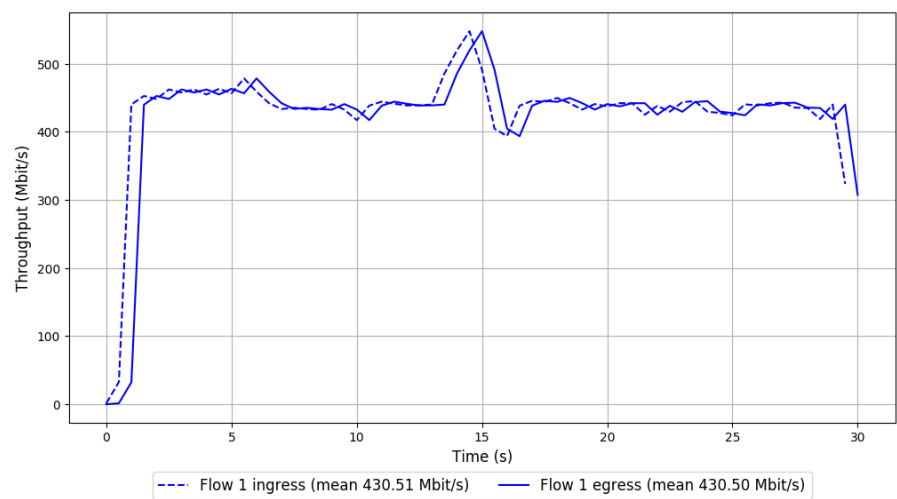
-- Flow 1:

Average throughput: 430.50 Mbit/s

95th percentile per-packet one-way delay: 1.013 ms

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-18 01:46:56

End at: 2018-07-18 01:47:26

Local clock offset: 0.585 ms

Remote clock offset: 2.029 ms

Below is generated by plot.py at 2018-07-18 07:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 500.08 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.06%

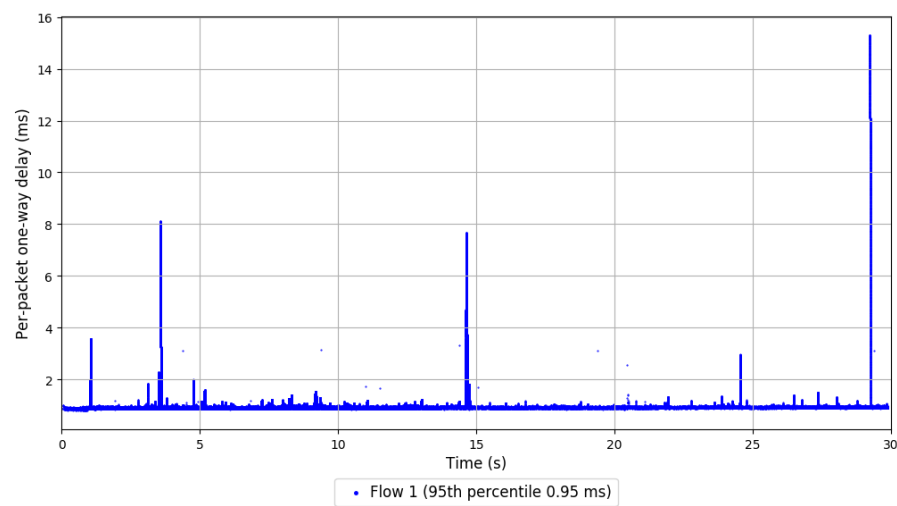
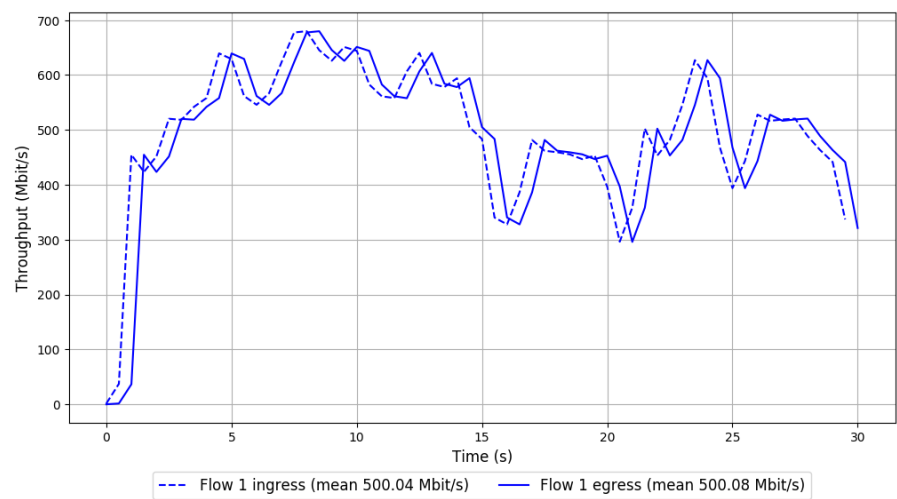
-- Flow 1:

Average throughput: 500.08 Mbit/s

95th percentile per-packet one-way delay: 0.951 ms

Loss rate: 0.06%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-18 02:12:49

End at: 2018-07-18 02:13:19

Local clock offset: 0.627 ms

Remote clock offset: 2.604 ms

Below is generated by plot.py at 2018-07-18 07:31:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.10 Mbit/s

95th percentile per-packet one-way delay: 0.953 ms

Loss rate: 0.06%

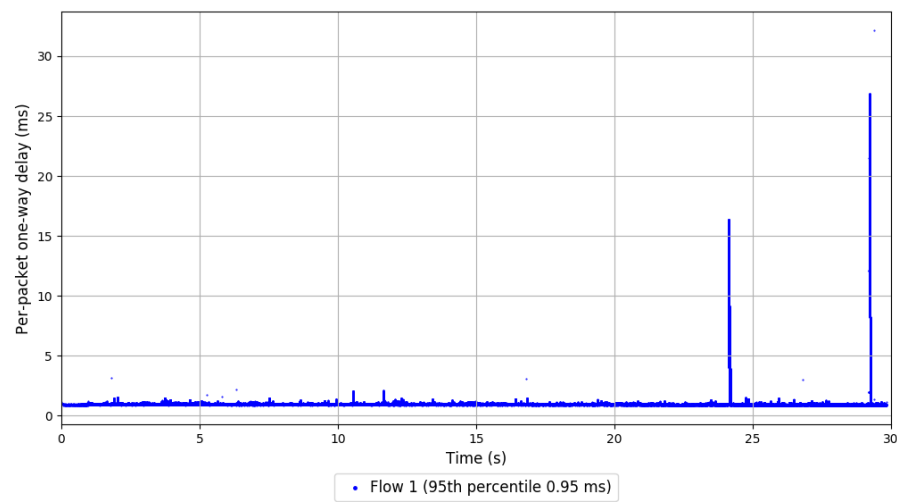
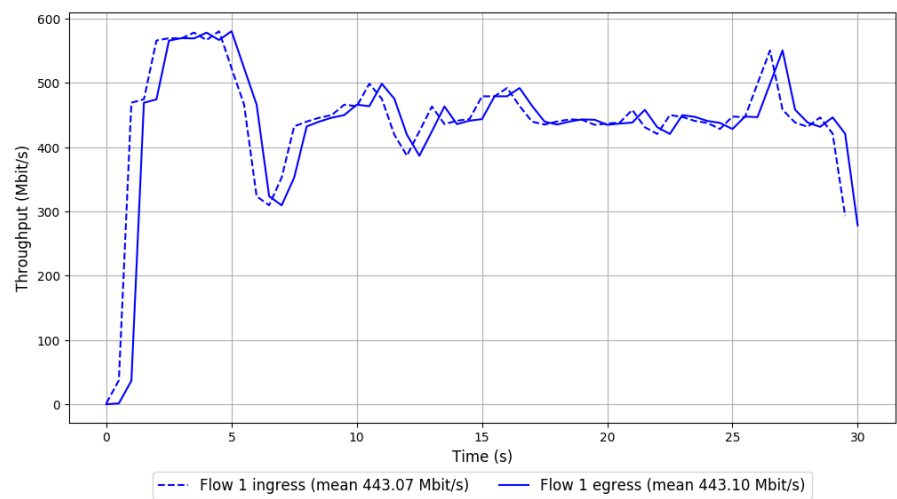
-- Flow 1:

Average throughput: 443.10 Mbit/s

95th percentile per-packet one-way delay: 0.953 ms

Loss rate: 0.06%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-18 02:38:50

End at: 2018-07-18 02:39:20

Local clock offset: 1.176 ms

Remote clock offset: 2.994 ms

Below is generated by plot.py at 2018-07-18 07:31:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.37 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.07%

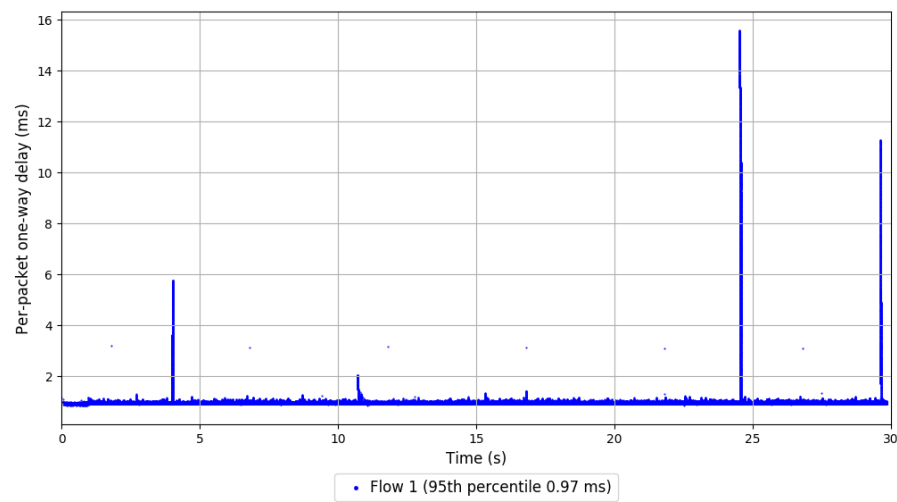
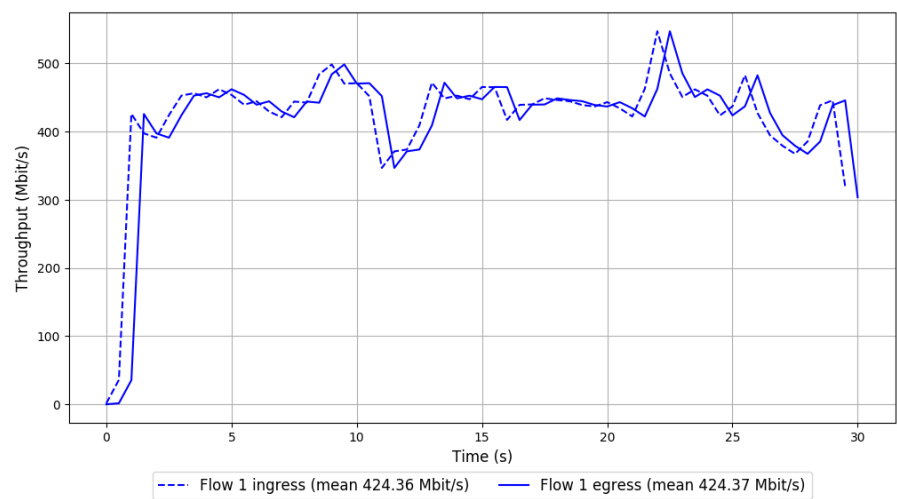
-- Flow 1:

Average throughput: 424.37 Mbit/s

95th percentile per-packet one-way delay: 0.973 ms

Loss rate: 0.07%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-18 03:04:38

End at: 2018-07-18 03:05:09

Local clock offset: 0.898 ms

Remote clock offset: 2.628 ms

Below is generated by plot.py at 2018-07-18 07:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.40 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.07%

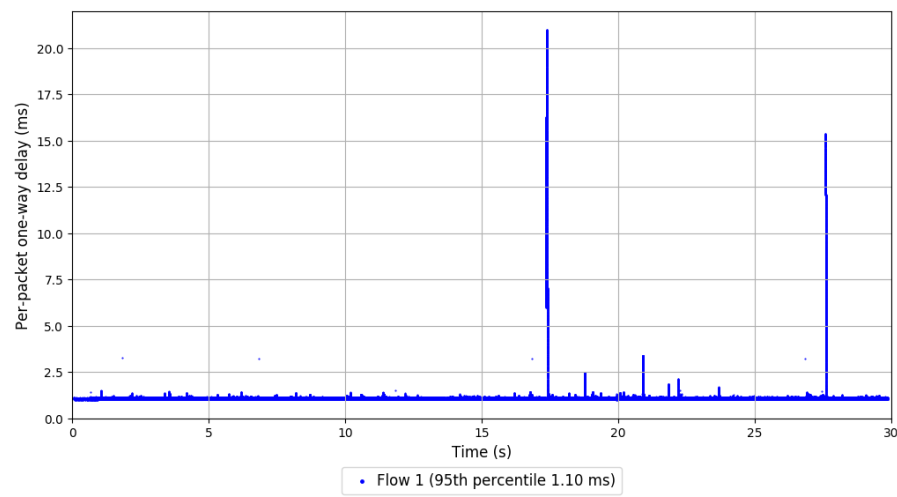
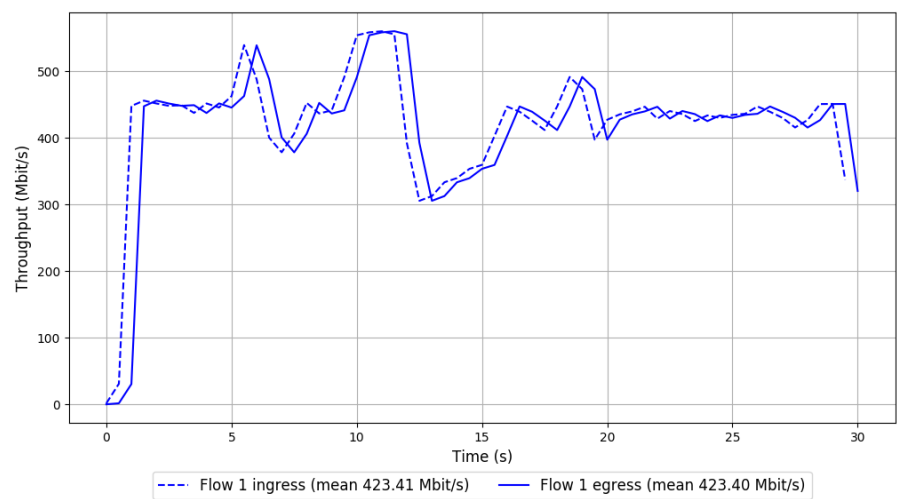
-- Flow 1:

Average throughput: 423.40 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.07%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-18 03:30:33

End at: 2018-07-18 03:31:03

Local clock offset: 0.427 ms

Remote clock offset: 2.735 ms

Below is generated by plot.py at 2018-07-18 07:32:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.75 Mbit/s

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

Loss rate: 0.04%

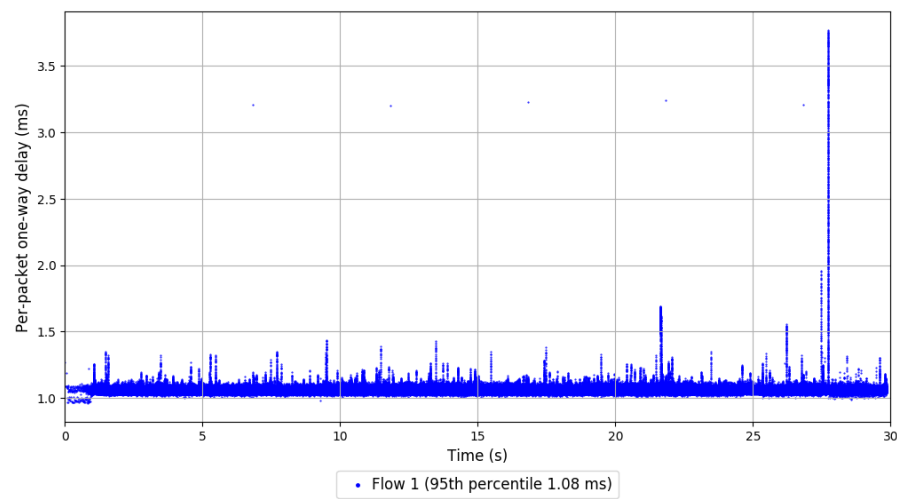
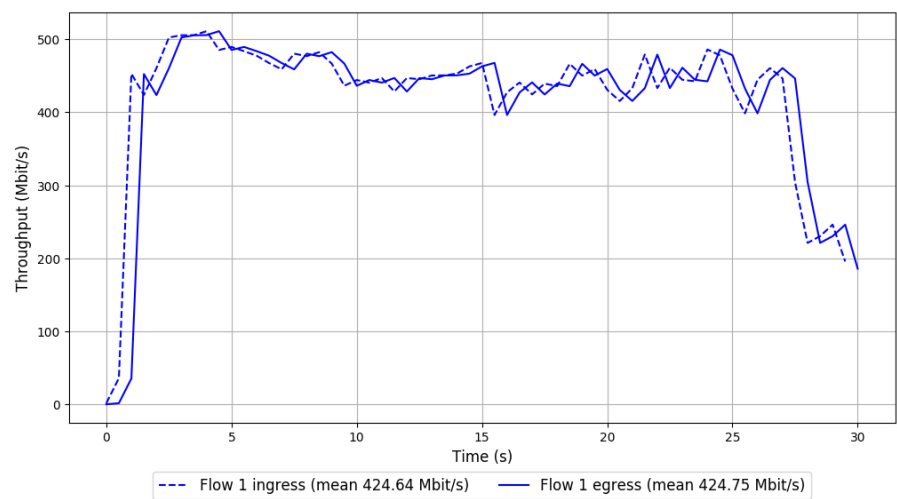
-- Flow 1:

Average throughput: 424.75 Mbit/s

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

Loss rate: 0.04%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-07-18 03:56:24

End at: 2018-07-18 03:56:54

Local clock offset: -0.174 ms

Remote clock offset: 2.659 ms

Below is generated by plot.py at 2018-07-18 07:32:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.29 Mbit/s

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

Loss rate: 0.06%

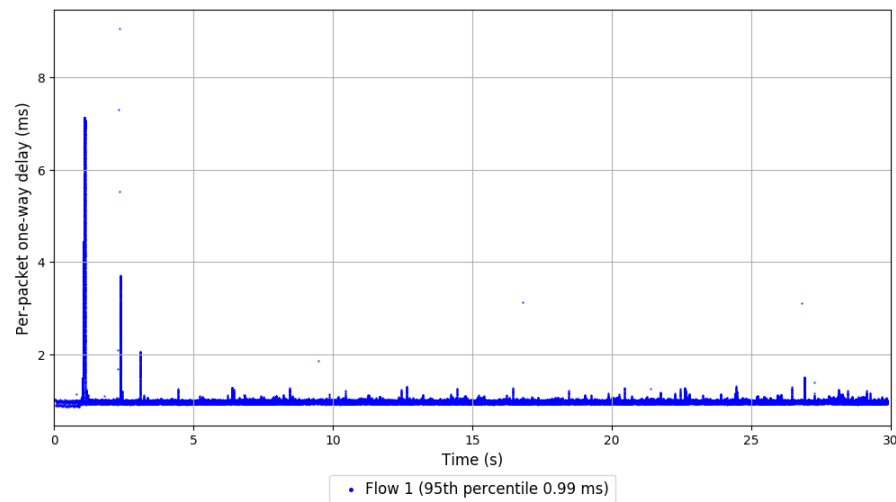
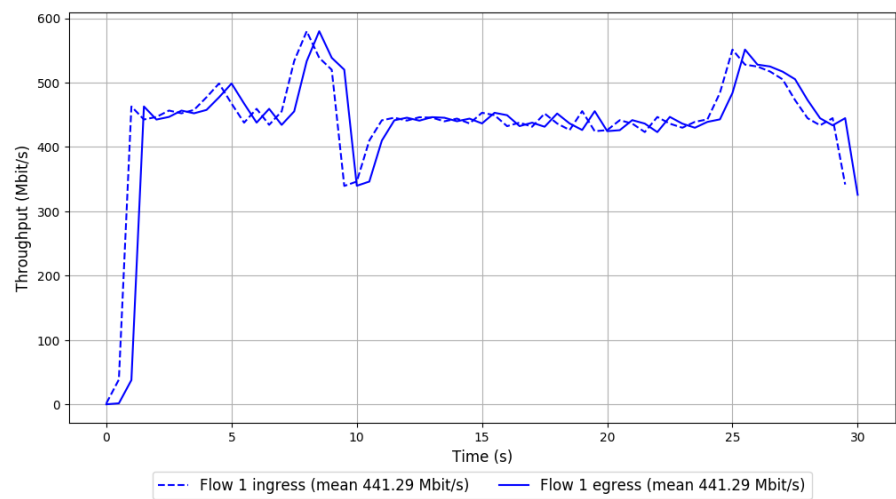
-- Flow 1:

Average throughput: 441.29 Mbit/s

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

Loss rate: 0.06%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-18 04:22:10

End at: 2018-07-18 04:22:40

Local clock offset: 0.997 ms

Remote clock offset: 2.524 ms

Below is generated by plot.py at 2018-07-18 07:32:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.76 Mbit/s

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

Loss rate: 0.06%

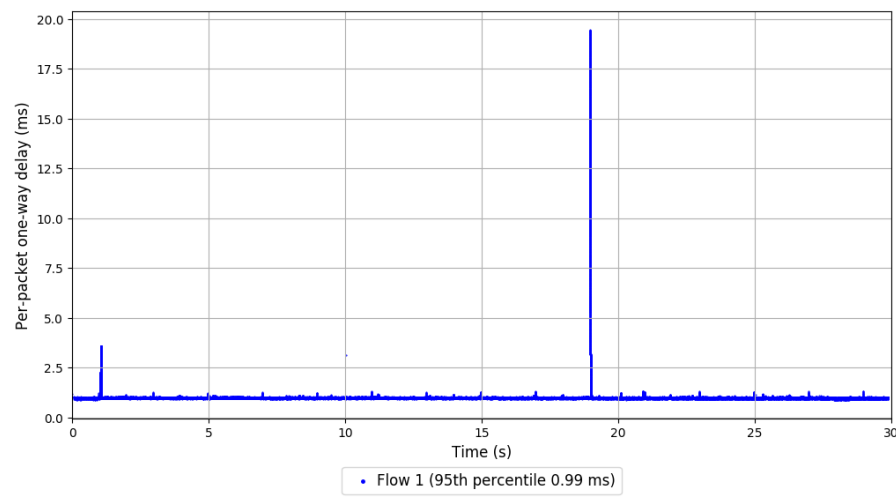
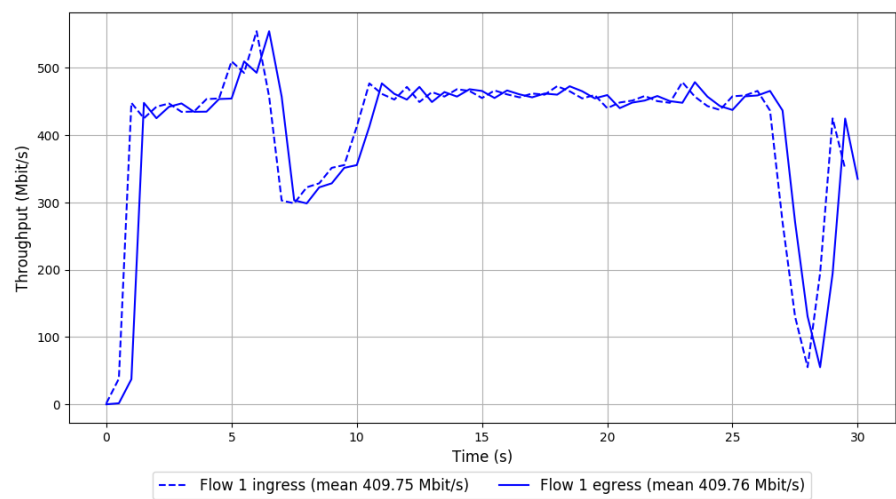
-- Flow 1:

Average throughput: 409.76 Mbit/s

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

Loss rate: 0.06%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-18 04:48:12

End at: 2018-07-18 04:48:42

Local clock offset: 1.04 ms

Remote clock offset: 2.248 ms

Below is generated by plot.py at 2018-07-18 07:33:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.89 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.08%

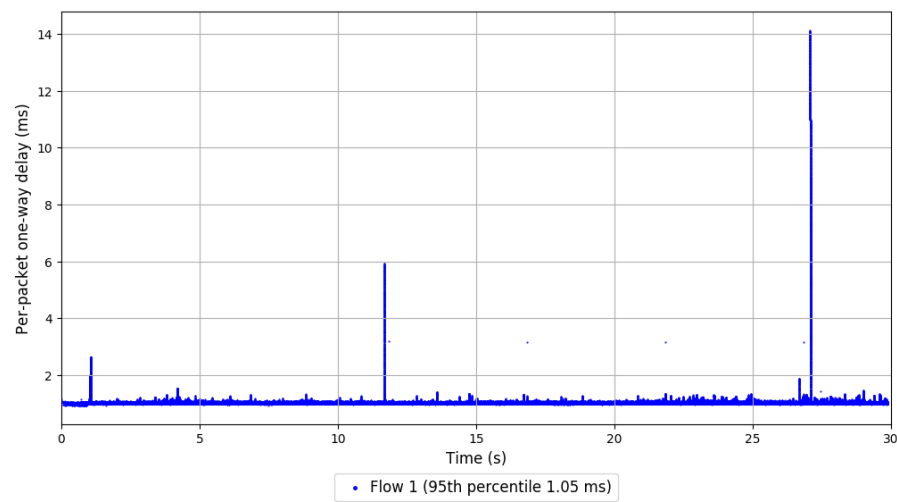
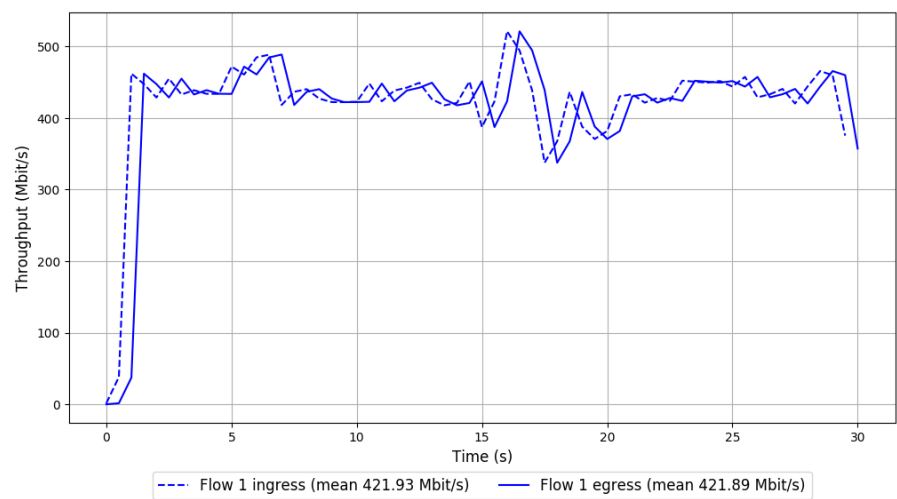
-- Flow 1:

Average throughput: 421.89 Mbit/s

95th percentile per-packet one-way delay: 1.051 ms

Loss rate: 0.08%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-18 05:14:05

End at: 2018-07-18 05:14:35

Local clock offset: 5.512 ms

Remote clock offset: 1.771 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.42 Mbit/s

95th percentile per-packet one-way delay: 0.557 ms

Loss rate: 0.07%

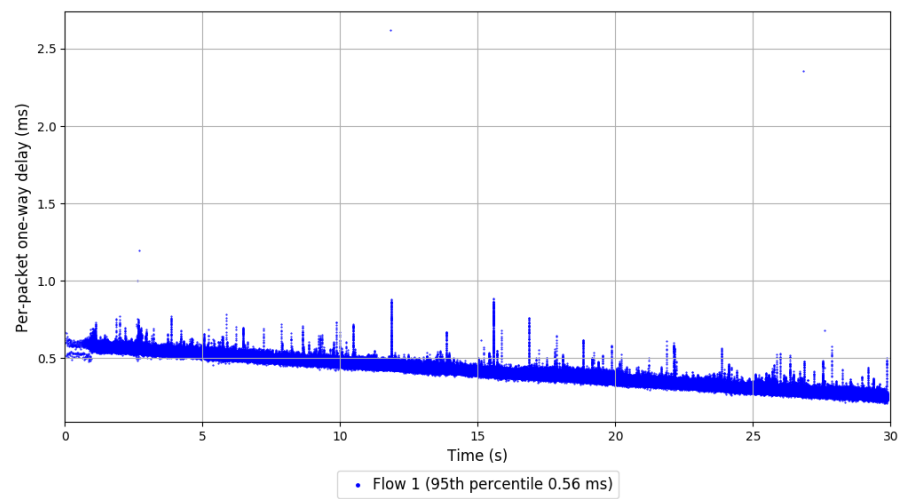
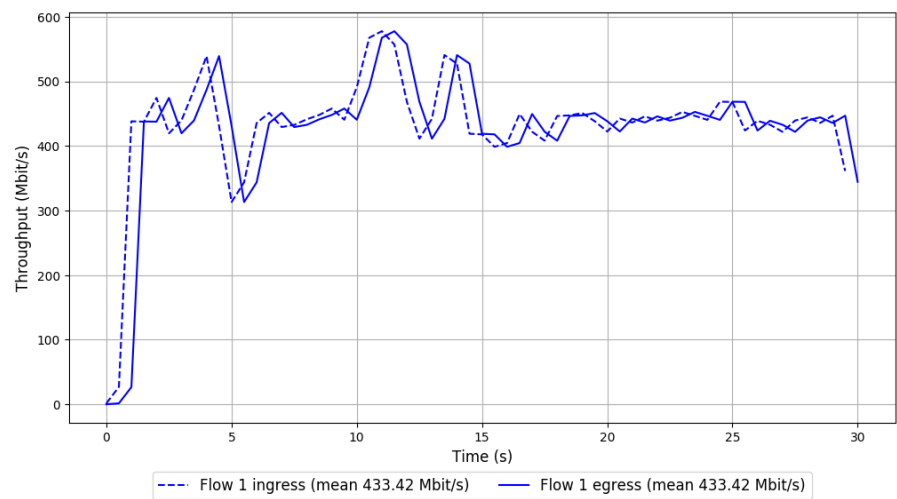
-- Flow 1:

Average throughput: 433.42 Mbit/s

95th percentile per-packet one-way delay: 0.557 ms

Loss rate: 0.07%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-18 01:27:10

End at: 2018-07-18 01:27:40

Local clock offset: 1.125 ms

Remote clock offset: 1.335 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.17 Mbit/s

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

Loss rate: 0.14%

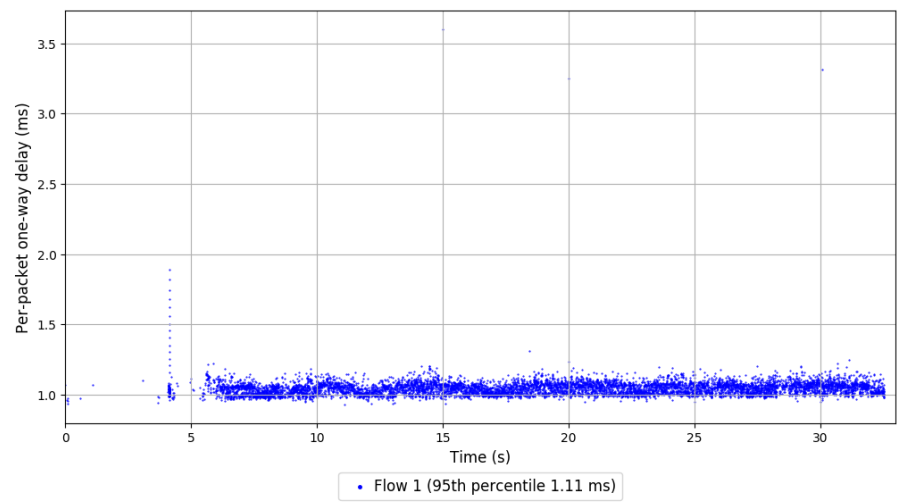
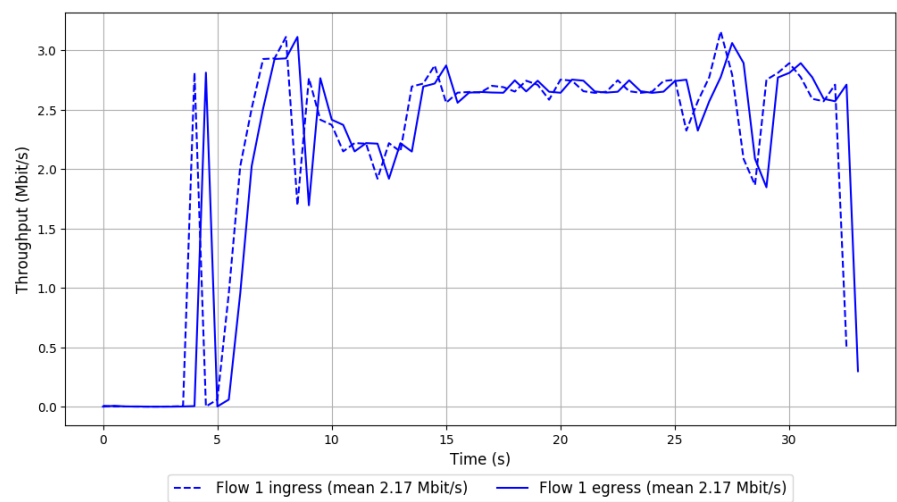
-- Flow 1:

Average throughput: 2.17 Mbit/s

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

Loss rate: 0.14%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-18 01:53:05

End at: 2018-07-18 01:53:35

Local clock offset: 0.427 ms

Remote clock offset: 2.093 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 0.14%

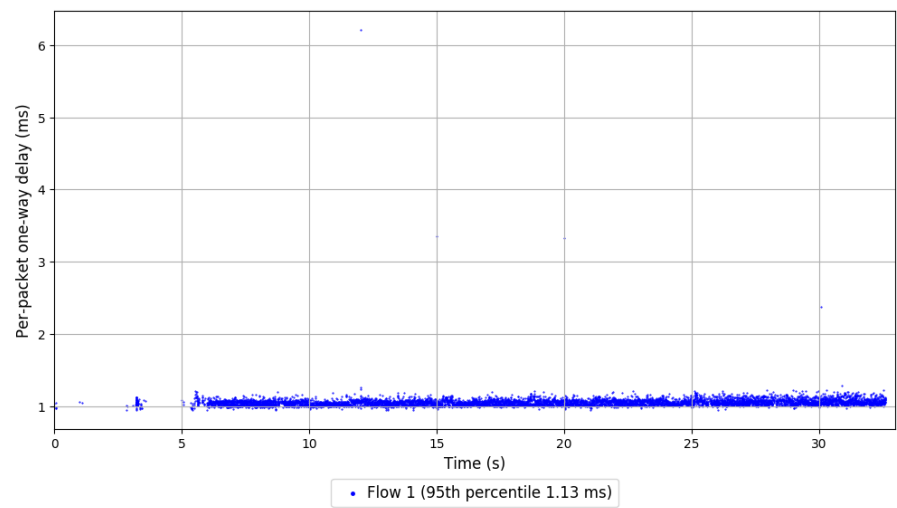
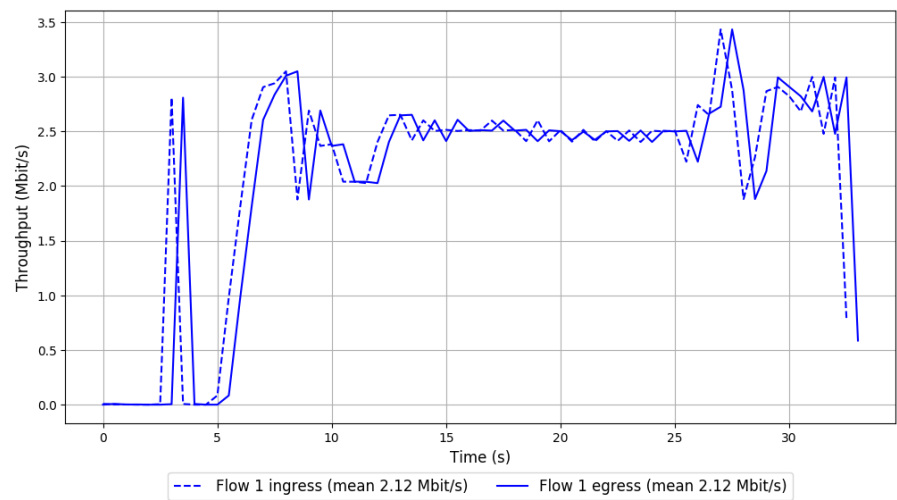
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 0.14%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-18 02:18:57

End at: 2018-07-18 02:19:27

Local clock offset: 0.978 ms

Remote clock offset: 2.672 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.07%

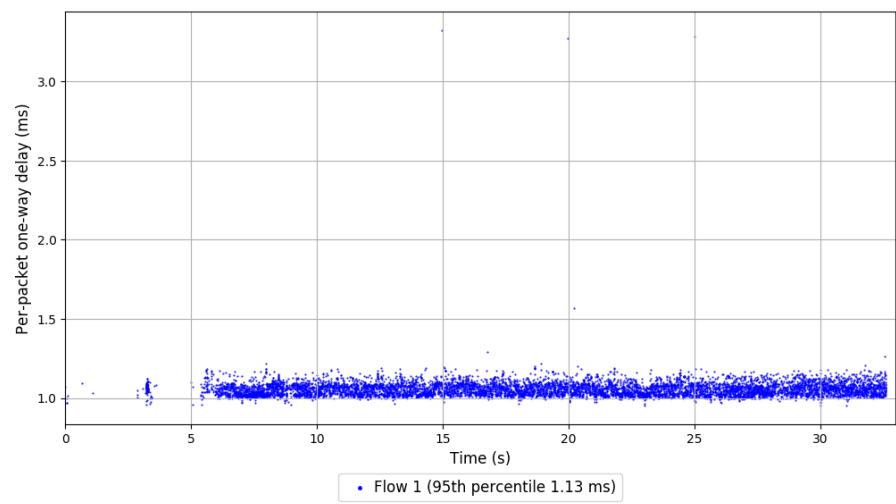
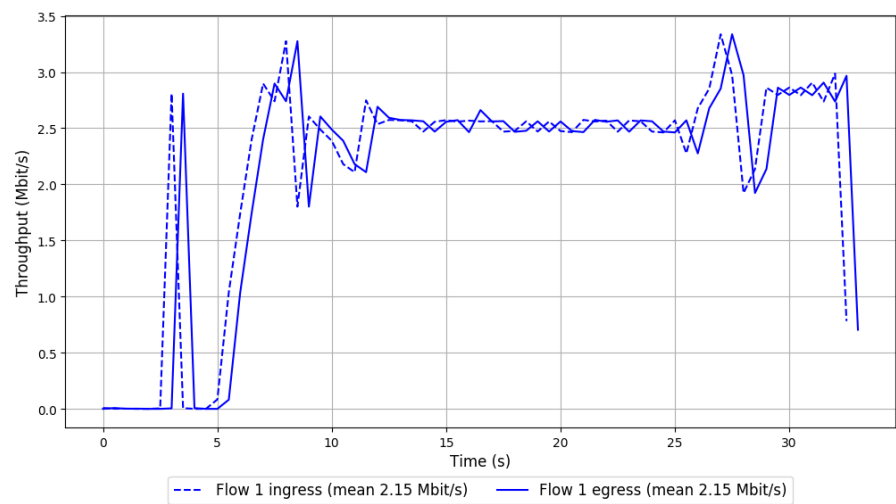
-- Flow 1:

Average throughput: 2.15 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-18 02:44:58

End at: 2018-07-18 02:45:28

Local clock offset: 1.016 ms

Remote clock offset: 2.9 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.07%

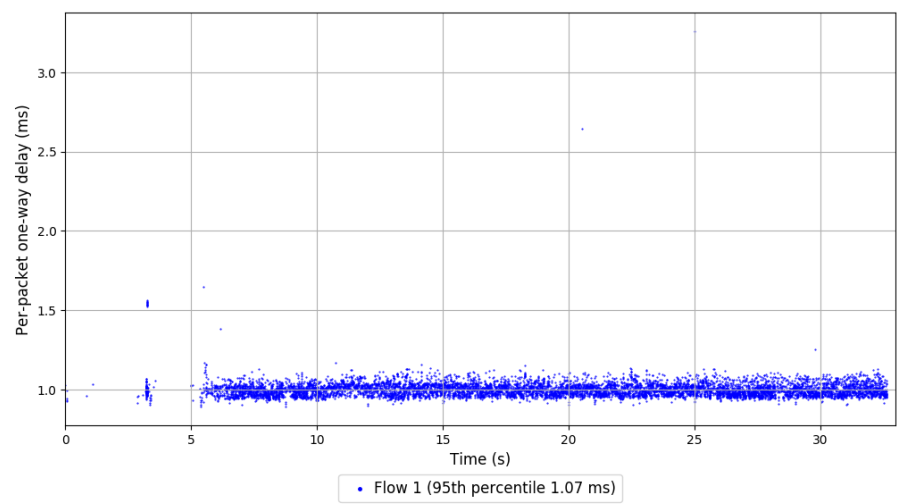
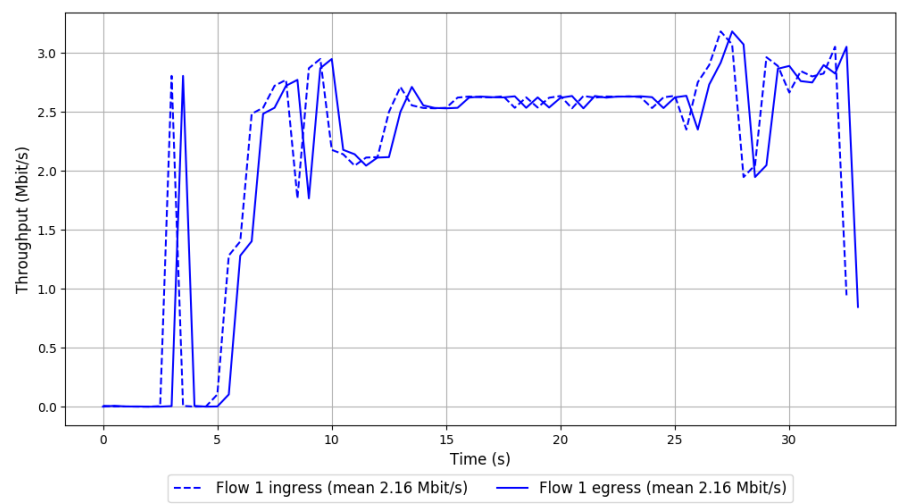
-- Flow 1:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-07-18 03:10:46

End at: 2018-07-18 03:11:16

Local clock offset: 0.734 ms

Remote clock offset: 2.608 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.07%

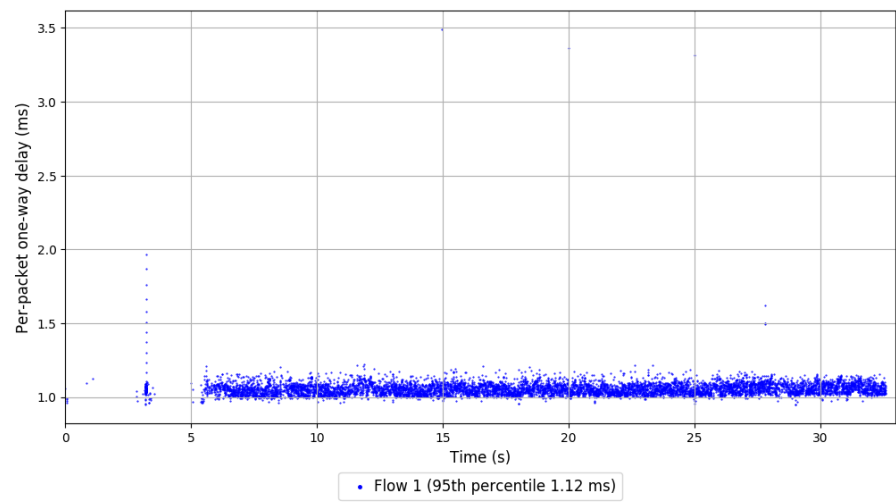
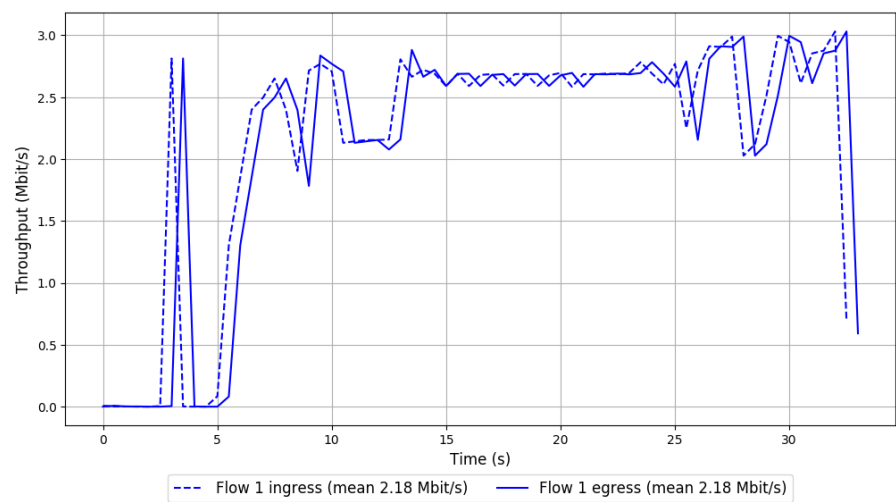
-- Flow 1:

Average throughput: 2.18 Mbit/s

95th percentile per-packet one-way delay: 1.121 ms

Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-07-18 03:36:39

End at: 2018-07-18 03:37:09

Local clock offset: 0.239 ms

Remote clock offset: 2.677 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.07%

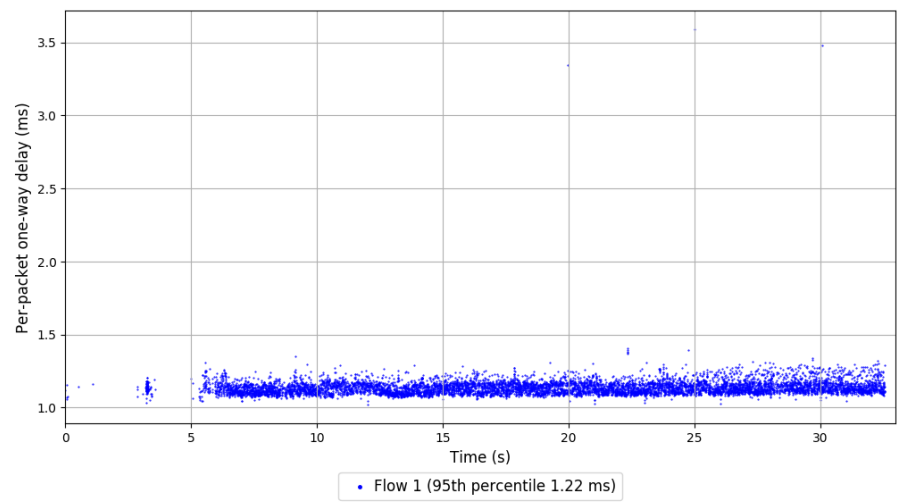
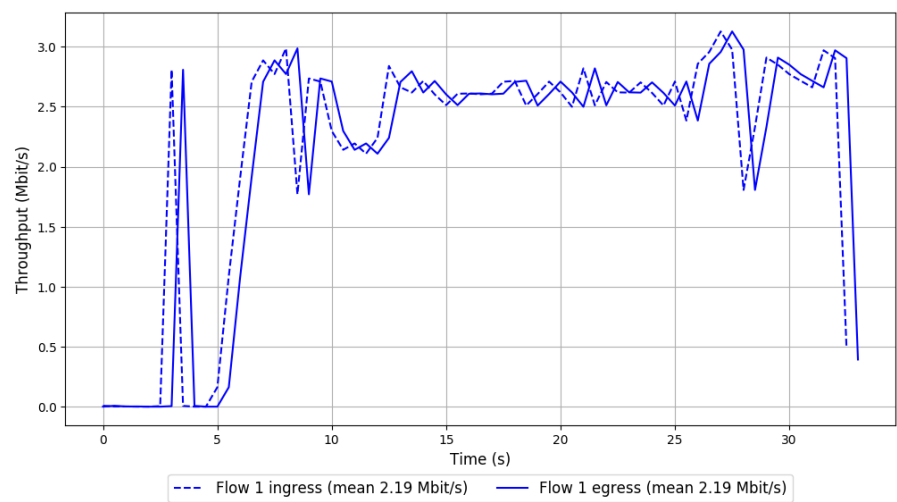
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.07%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-07-18 04:02:31

End at: 2018-07-18 04:03:01

Local clock offset: -0.065 ms

Remote clock offset: 2.677 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

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

Loss rate: 0.08%

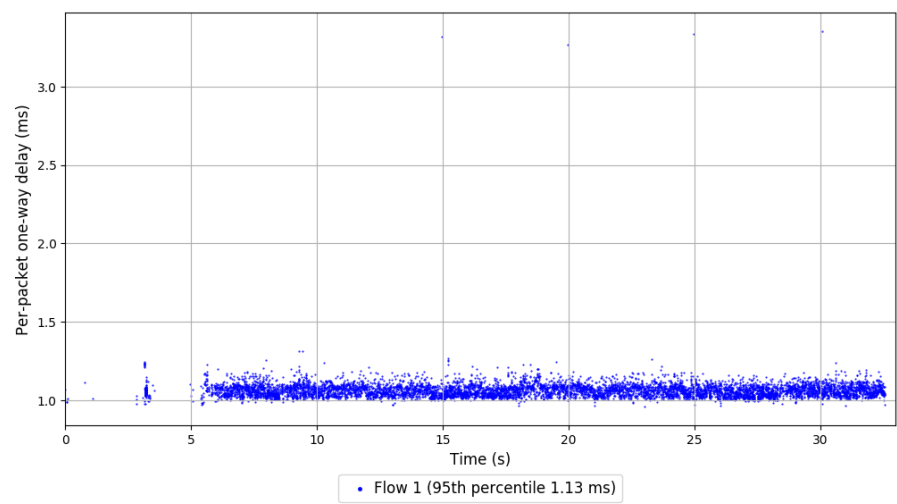
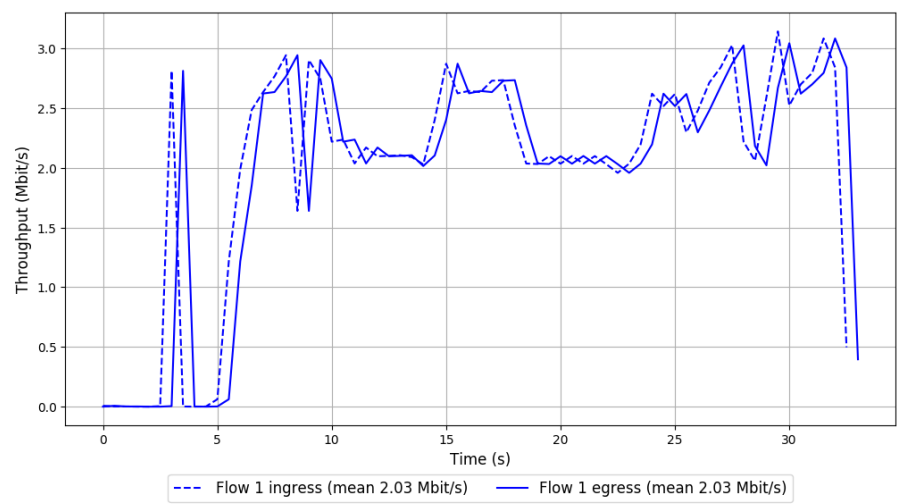
-- Flow 1:

Average throughput: 2.03 Mbit/s

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

Loss rate: 0.08%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-18 04:28:19

End at: 2018-07-18 04:28:49

Local clock offset: 1.084 ms

Remote clock offset: 2.447 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.07%

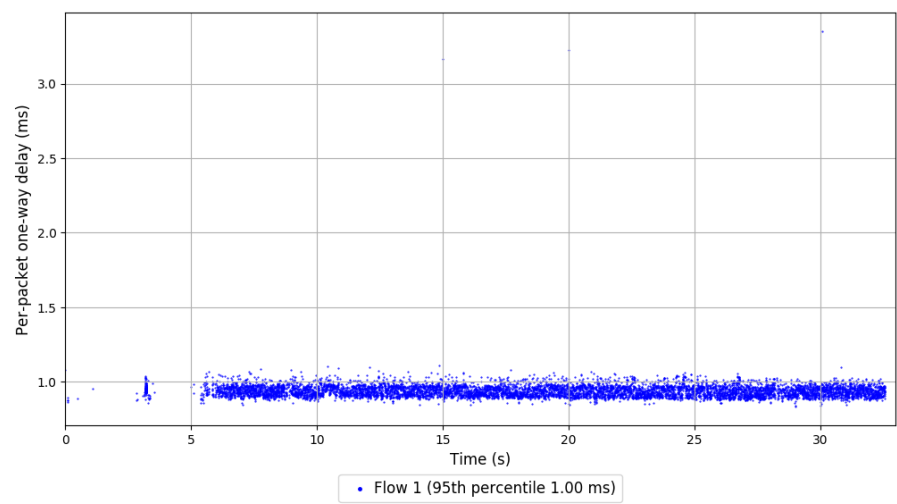
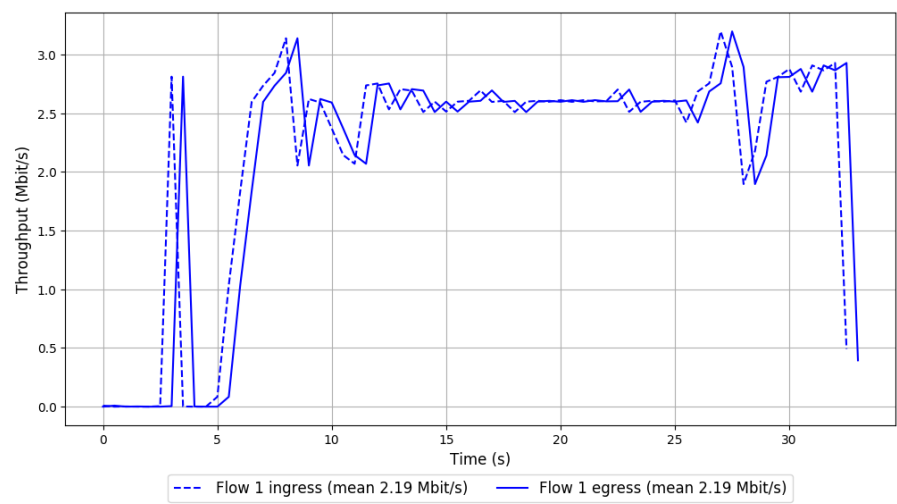
-- Flow 1:

Average throughput: 2.19 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-18 04:54:19

End at: 2018-07-18 04:54:49

Local clock offset: 0.939 ms

Remote clock offset: 2.136 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

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

Loss rate: 0.07%

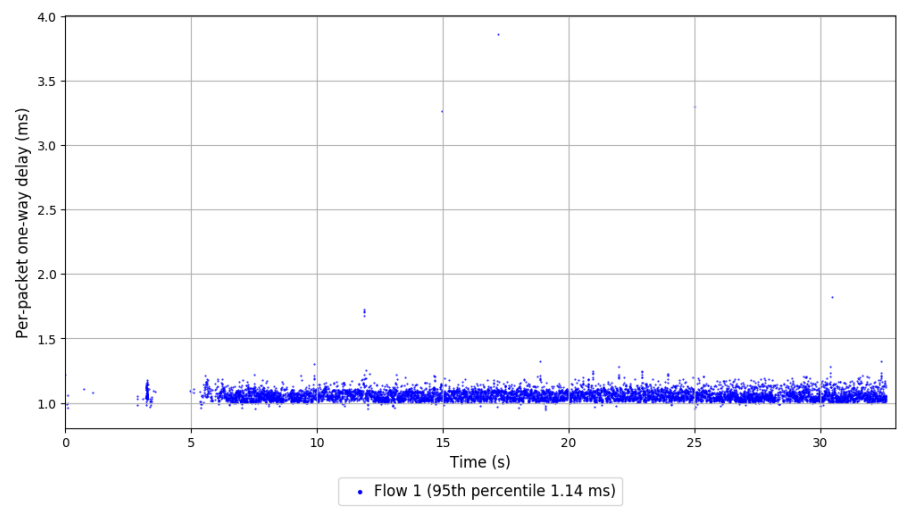
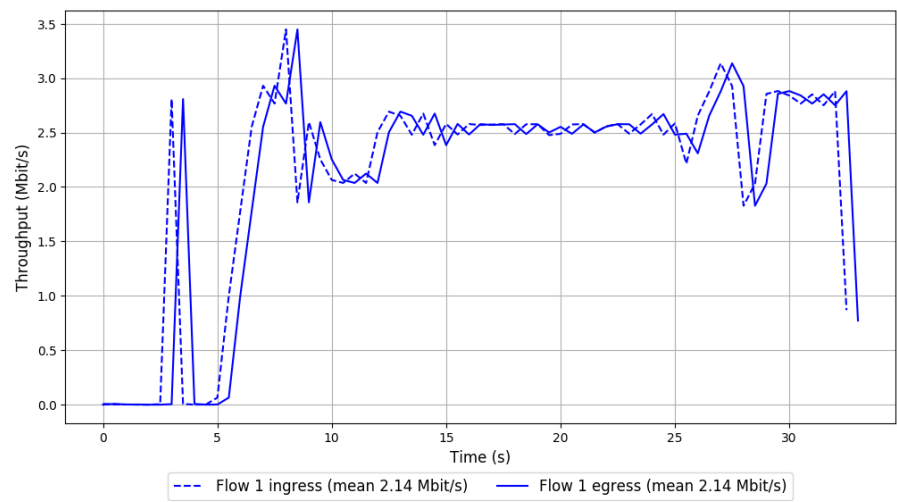
-- Flow 1:

Average throughput: 2.14 Mbit/s

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

Loss rate: 0.07%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-18 05:20:14

End at: 2018-07-18 05:20:44

Local clock offset: 8.925 ms

Remote clock offset: 1.684 ms

Below is generated by plot.py at 2018-07-18 07:33:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 0.816 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 0.816 ms

Loss rate: 0.07%

Run 10: Report of WebRTC media — Data Link

