

Pantheon Report

Generated at 2018-06-19 07:37:43 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

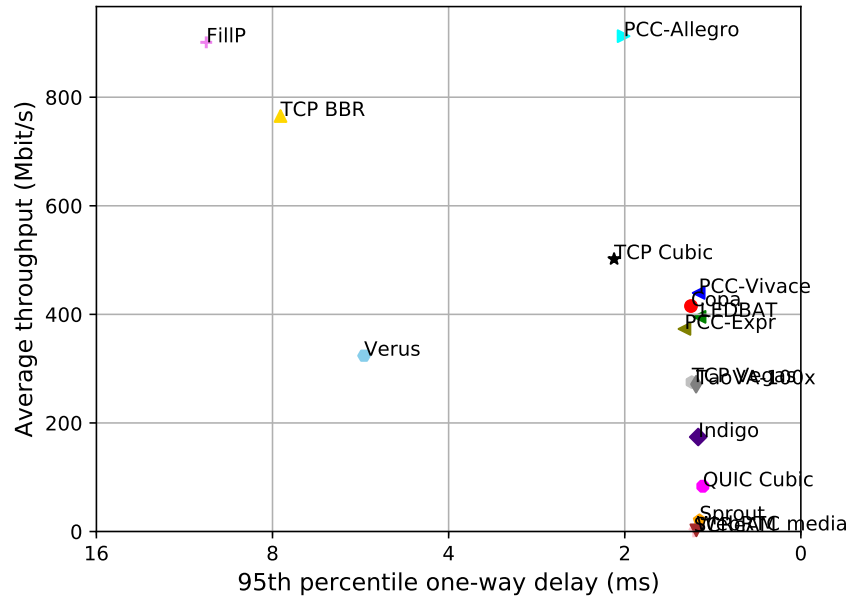
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

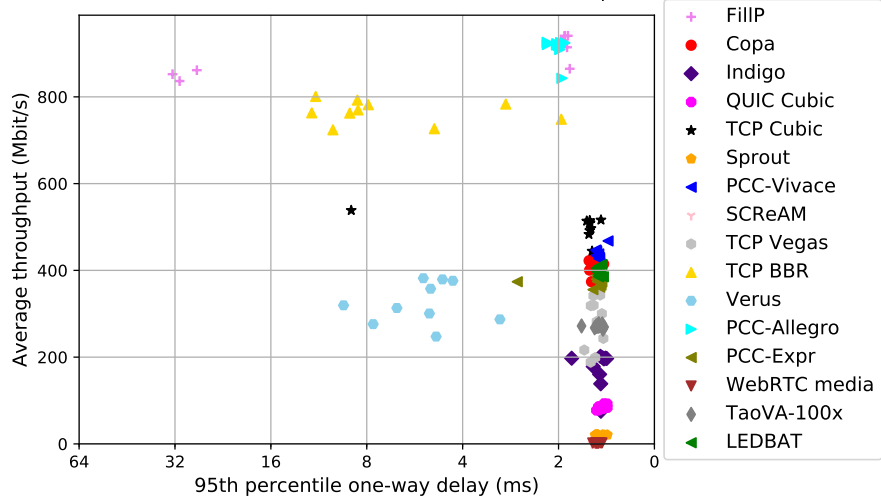
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	765.39	7.75	0.07
Copa	10	415.29	1.25	0.06
TCP Cubic	10	501.87	2.09	0.07
FillP	10	901.08	10.38	0.18
Indigo	10	174.11	1.17	0.07
LEDBAT	10	395.38	1.15	0.07
PCC-Allegro	10	912.43	2.01	0.07
PCC-Expr	10	373.19	1.32	0.07
QUIC Cubic	10	83.41	1.11	0.07
SCReAM	10	0.22	1.22	0.09
Sprout	10	20.75	1.15	0.11
TaoVA-100x	10	271.27	1.19	0.07
TCP Vegas	10	275.19	1.24	0.05
Verus	10	323.88	5.58	0.08
PCC-Vivace	10	439.50	1.16	0.07
WebRTC media	10	2.12	1.19	0.08

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 01:53:56

End at: 2018-06-19 01:54:26

Local clock offset: 3.678 ms

Remote clock offset: 2.551 ms

Below is generated by plot.py at 2018-06-19 06:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.44 Mbit/s

95th percentile per-packet one-way delay: 2.929 ms

Loss rate: 0.08%

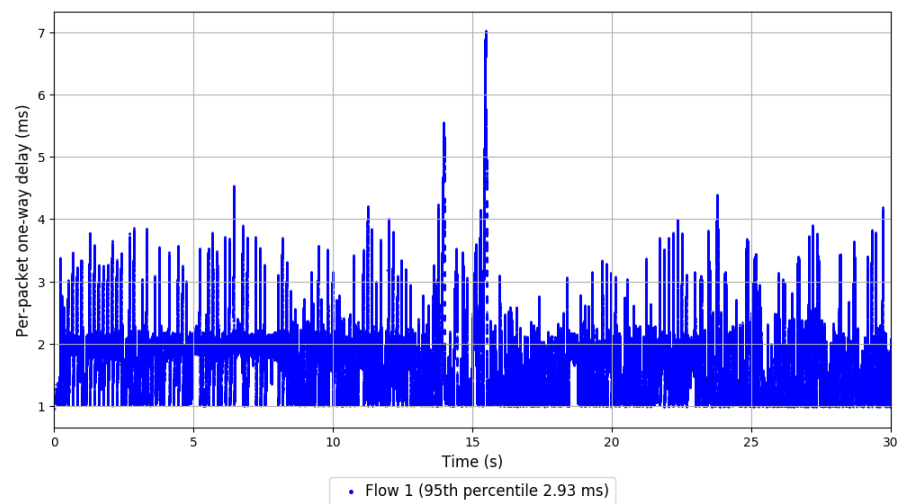
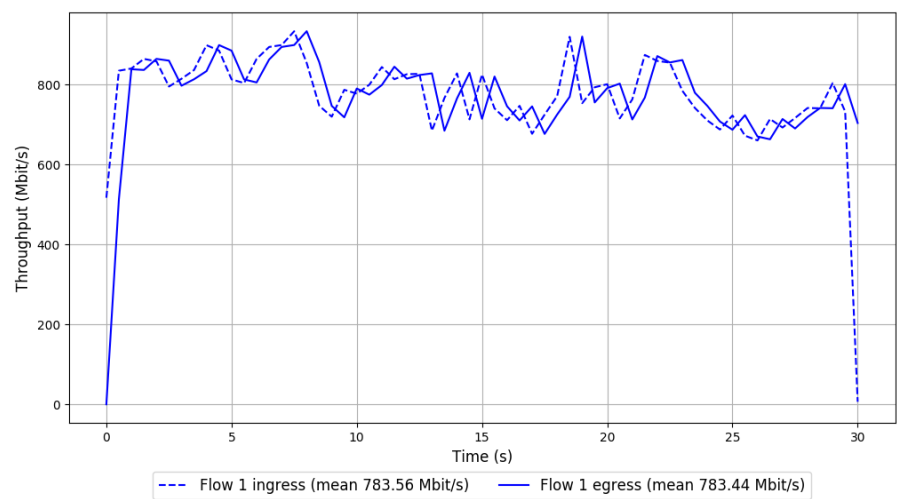
-- Flow 1:

Average throughput: 783.44 Mbit/s

95th percentile per-packet one-way delay: 2.929 ms

Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 02:18:17

End at: 2018-06-19 02:18:47

Local clock offset: 3.644 ms

Remote clock offset: 2.423 ms

Below is generated by plot.py at 2018-06-19 06:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 769.95 Mbit/s

95th percentile per-packet one-way delay: 8.518 ms

Loss rate: 0.04%

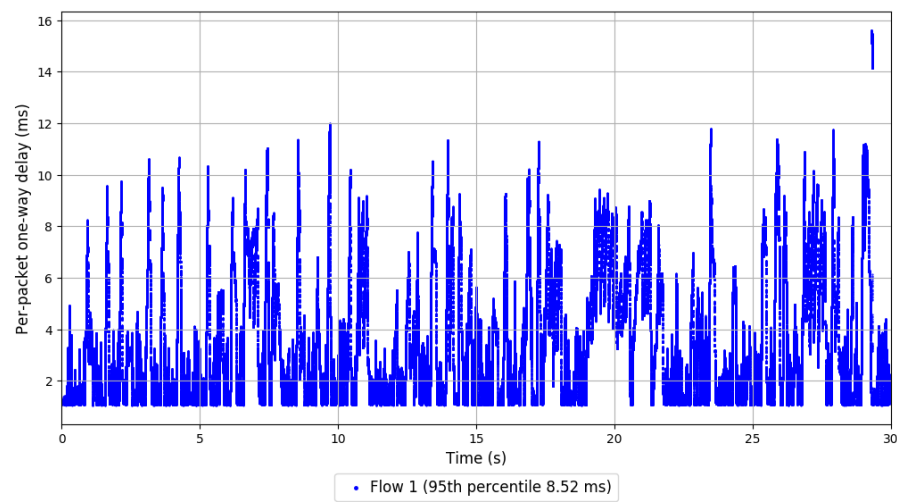
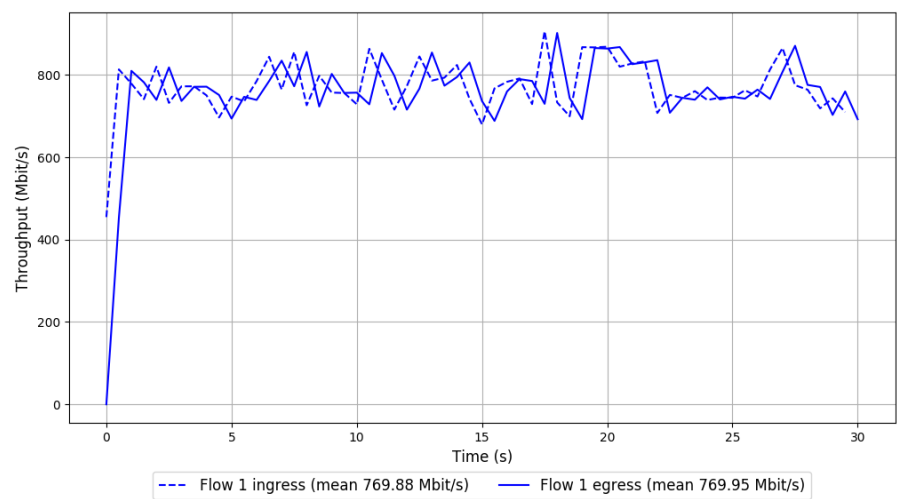
-- Flow 1:

Average throughput: 769.95 Mbit/s

95th percentile per-packet one-way delay: 8.518 ms

Loss rate: 0.04%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 02:42:28

End at: 2018-06-19 02:42:58

Local clock offset: 3.486 ms

Remote clock offset: 3.028 ms

Below is generated by plot.py at 2018-06-19 06:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 748.46 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.02%

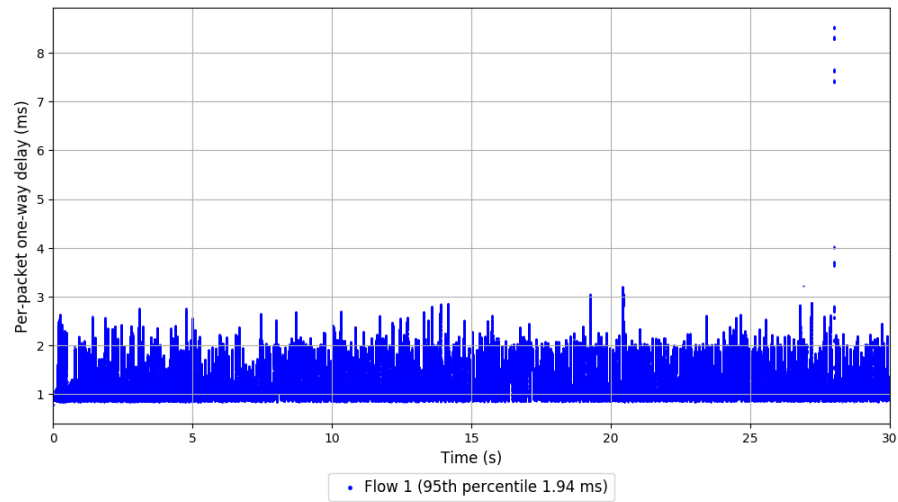
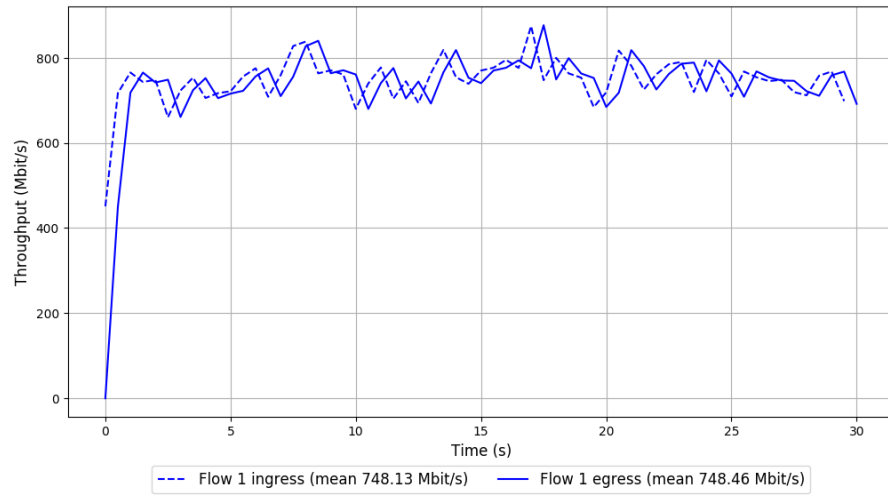
-- Flow 1:

Average throughput: 748.46 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.02%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 03:06:47

End at: 2018-06-19 03:07:17

Local clock offset: 3.479 ms

Remote clock offset: 3.073 ms

Below is generated by plot.py at 2018-06-19 06:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 763.19 Mbit/s

95th percentile per-packet one-way delay: 11.909 ms

Loss rate: 0.09%

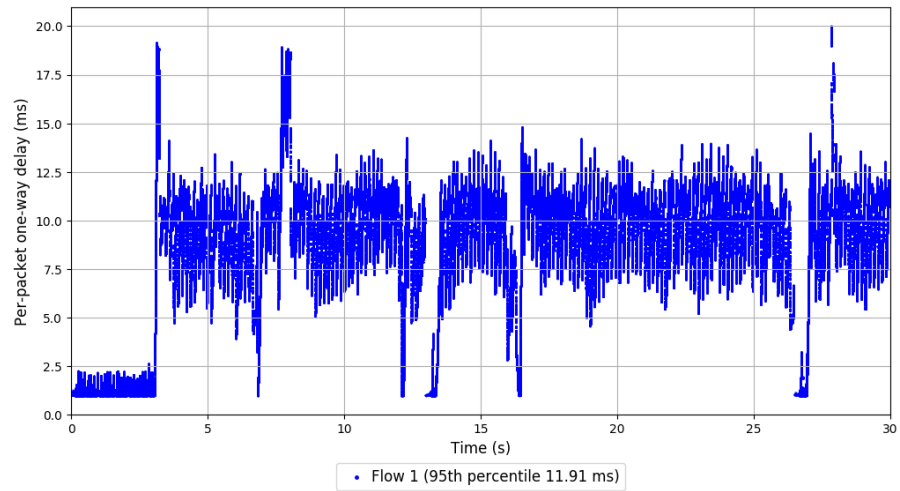
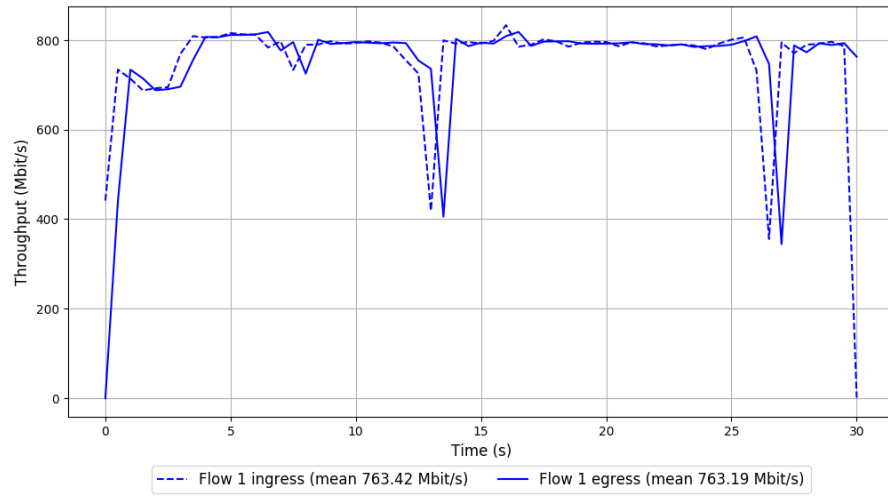
-- Flow 1:

Average throughput: 763.19 Mbit/s

95th percentile per-packet one-way delay: 11.909 ms

Loss rate: 0.09%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 03:30:59

End at: 2018-06-19 03:31:29

Local clock offset: 3.462 ms

Remote clock offset: 3.34 ms

Below is generated by plot.py at 2018-06-19 06:06:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 781.93 Mbit/s

95th percentile per-packet one-way delay: 7.911 ms

Loss rate: 0.08%

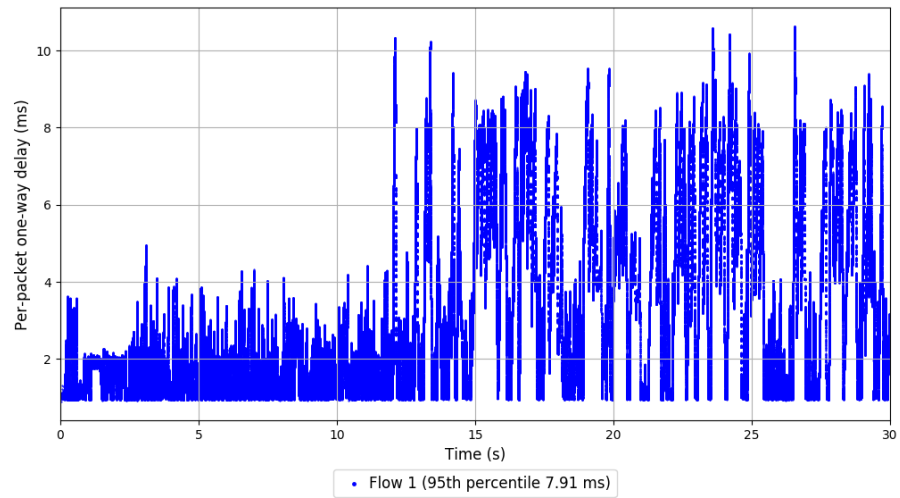
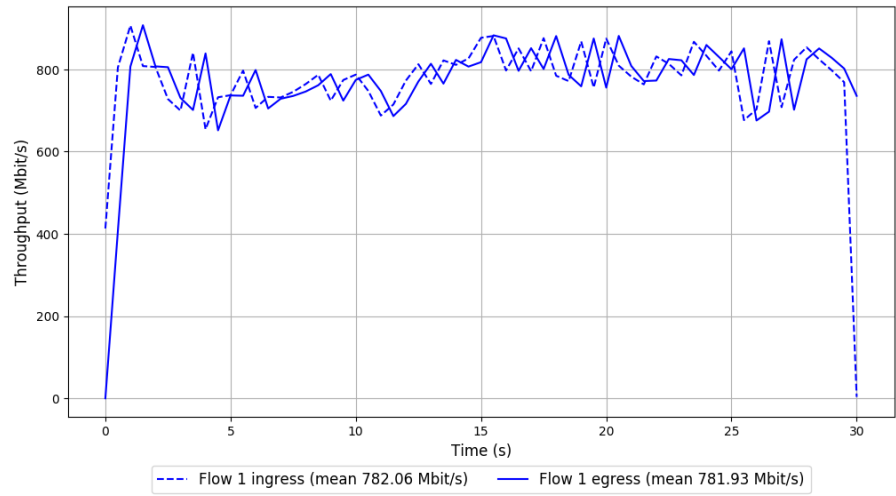
-- Flow 1:

Average throughput: 781.93 Mbit/s

95th percentile per-packet one-way delay: 7.911 ms

Loss rate: 0.08%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 03:55:13

End at: 2018-06-19 03:55:43

Local clock offset: 3.765 ms

Remote clock offset: 3.612 ms

Below is generated by plot.py at 2018-06-19 06:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 800.99 Mbit/s

95th percentile per-packet one-way delay: 11.574 ms

Loss rate: 0.09%

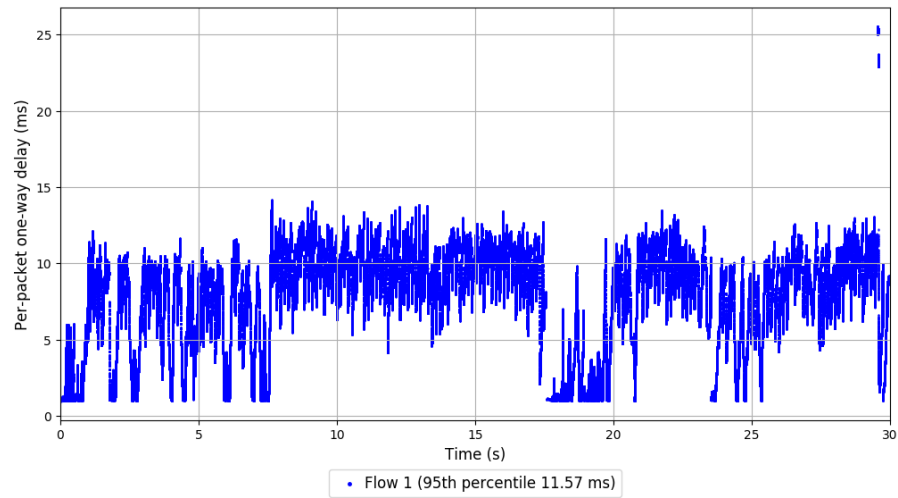
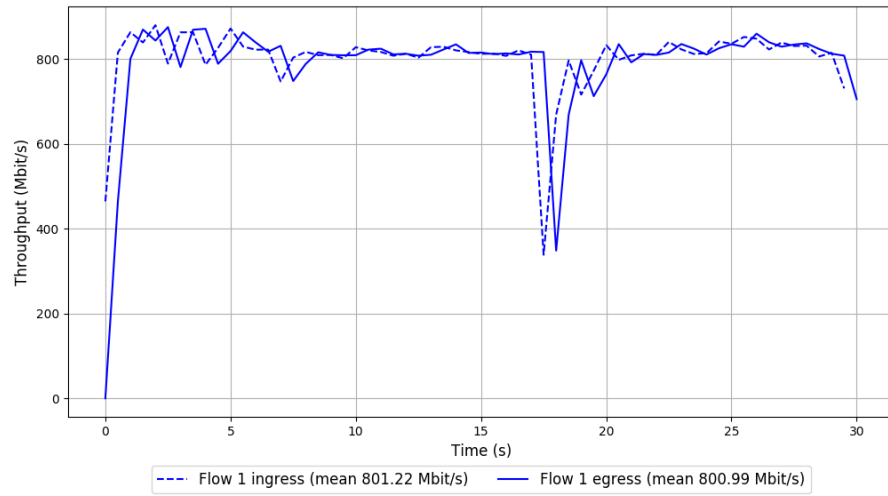
-- Flow 1:

Average throughput: 800.99 Mbit/s

95th percentile per-packet one-way delay: 11.574 ms

Loss rate: 0.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-06-19 04:19:28

End at: 2018-06-19 04:19:58

Local clock offset: 3.755 ms

Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-19 06:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.63 Mbit/s

95th percentile per-packet one-way delay: 9.047 ms

Loss rate: 0.06%

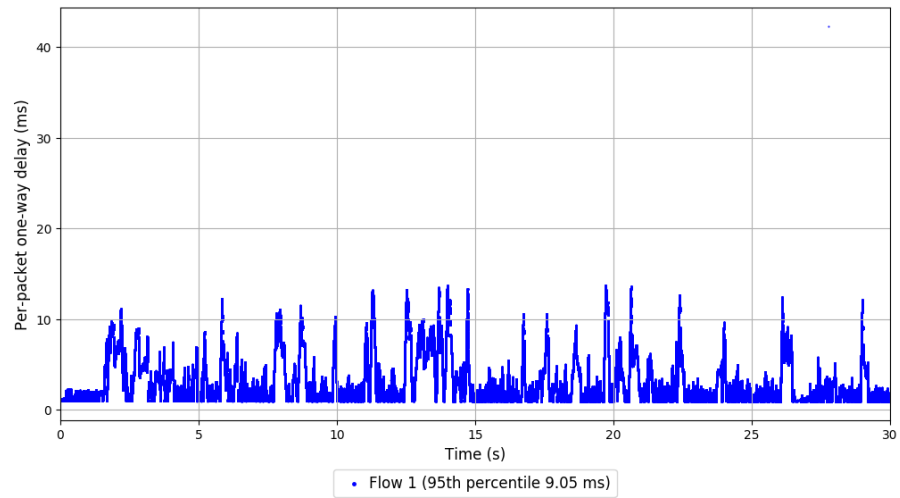
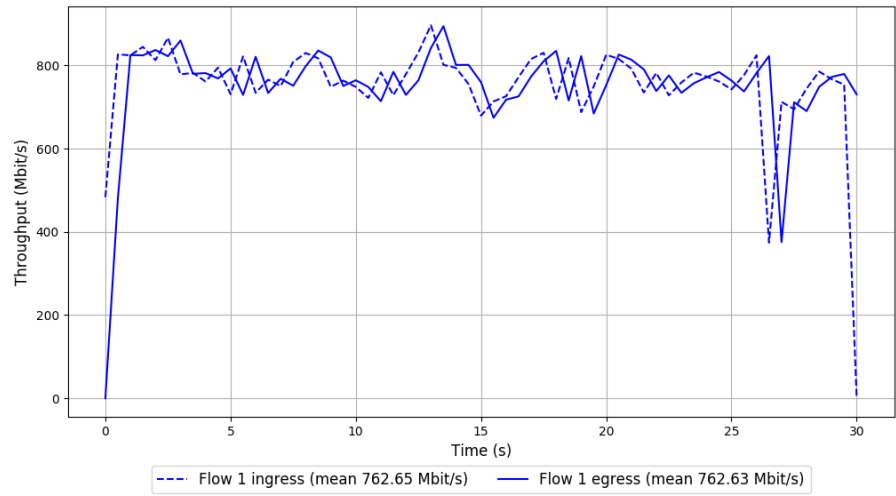
-- Flow 1:

Average throughput: 762.63 Mbit/s

95th percentile per-packet one-way delay: 9.047 ms

Loss rate: 0.06%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-19 04:43:44

End at: 2018-06-19 04:44:14

Local clock offset: 3.73 ms

Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-06-19 06:06:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 726.57 Mbit/s

95th percentile per-packet one-way delay: 4.908 ms

Loss rate: 0.10%

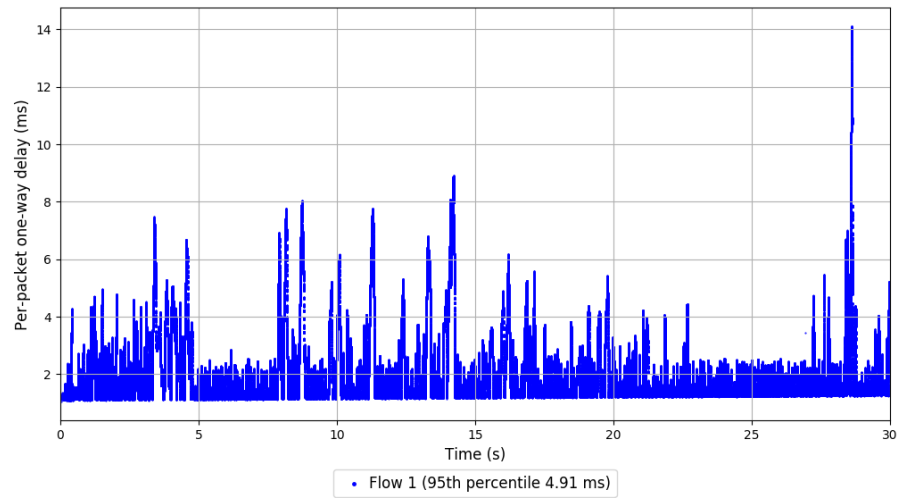
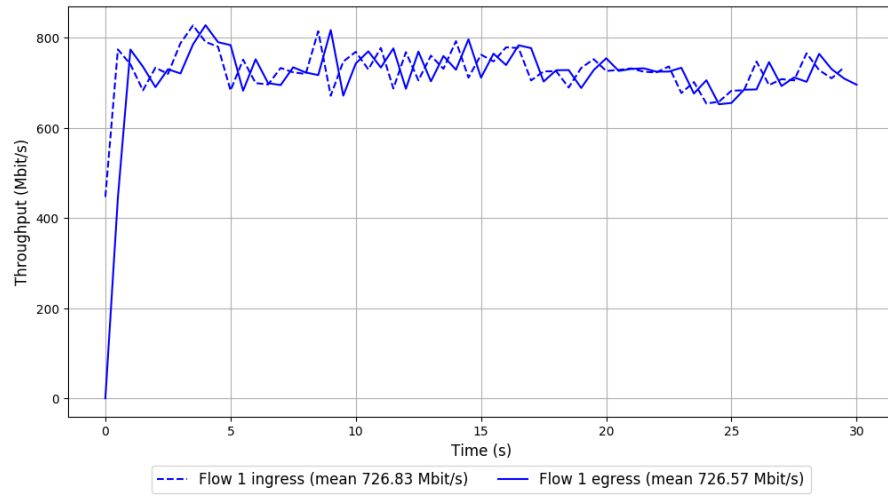
-- Flow 1:

Average throughput: 726.57 Mbit/s

95th percentile per-packet one-way delay: 4.908 ms

Loss rate: 0.10%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-06-19 05:08:03

End at: 2018-06-19 05:08:33

Local clock offset: 3.628 ms

Remote clock offset: 2.821 ms

Below is generated by plot.py at 2018-06-19 06:14:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 724.09 Mbit/s

95th percentile per-packet one-way delay: 10.218 ms

Loss rate: 0.10%

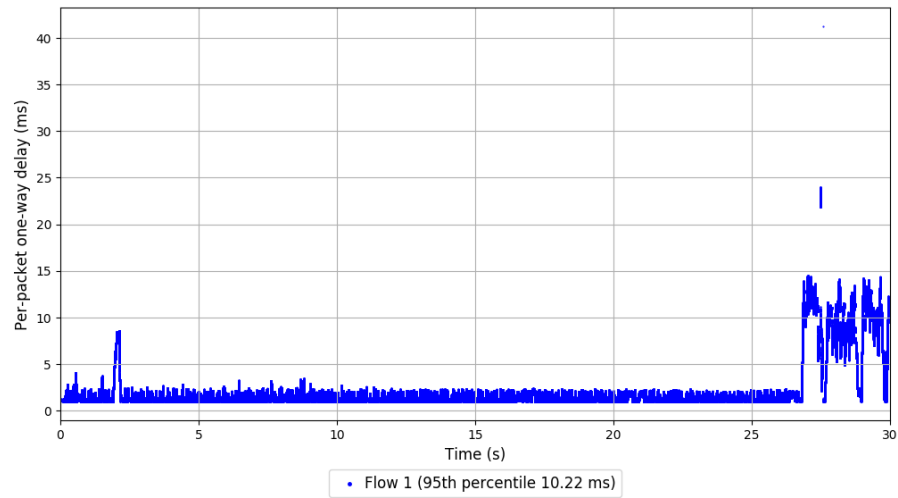
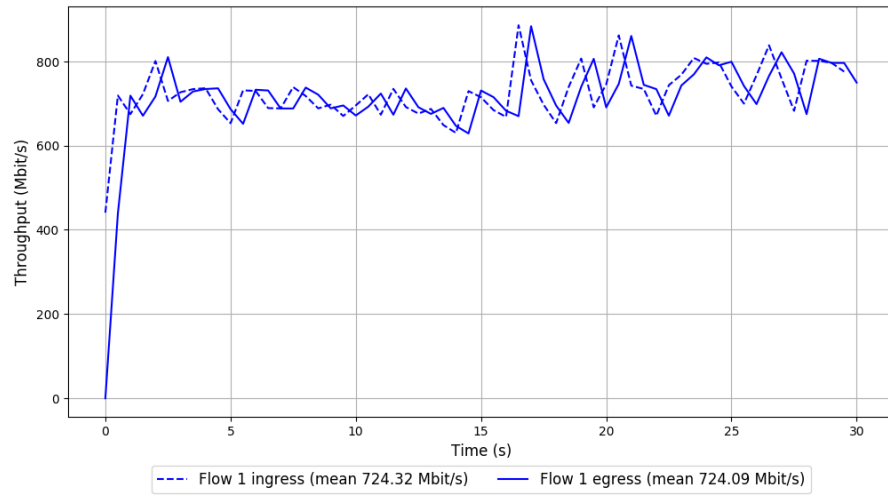
-- Flow 1:

Average throughput: 724.09 Mbit/s

95th percentile per-packet one-way delay: 10.218 ms

Loss rate: 0.10%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 05:32:21

End at: 2018-06-19 05:32:51

Local clock offset: 3.638 ms

Remote clock offset: -0.716 ms

Below is generated by plot.py at 2018-06-19 06:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.62 Mbit/s

95th percentile per-packet one-way delay: 8.558 ms

Loss rate: 0.08%

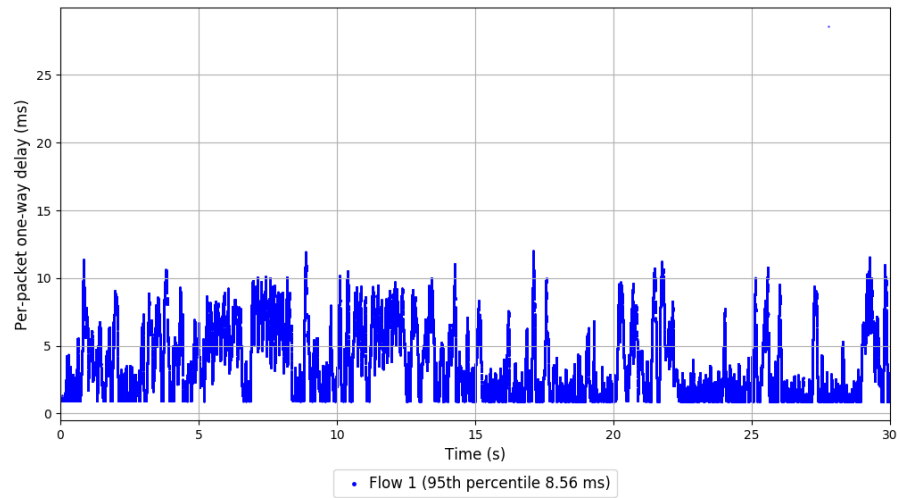
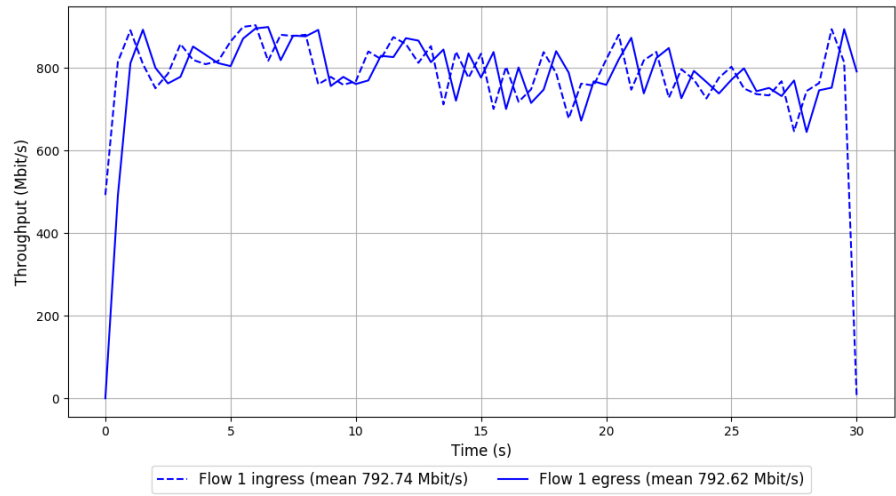
-- Flow 1:

Average throughput: 792.62 Mbit/s

95th percentile per-packet one-way delay: 8.558 ms

Loss rate: 0.08%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-19 01:52:16

End at: 2018-06-19 01:52:46

Local clock offset: 3.694 ms

Remote clock offset: 2.628 ms

Below is generated by plot.py at 2018-06-19 06:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.87 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.04%

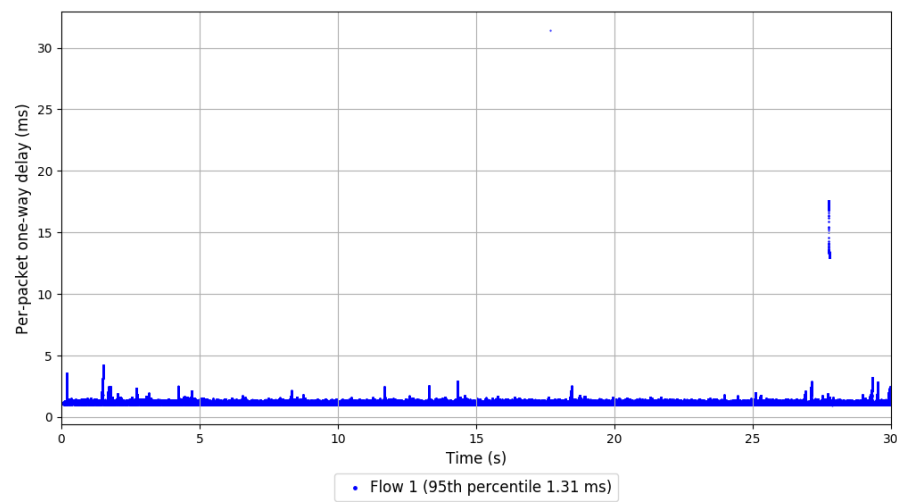
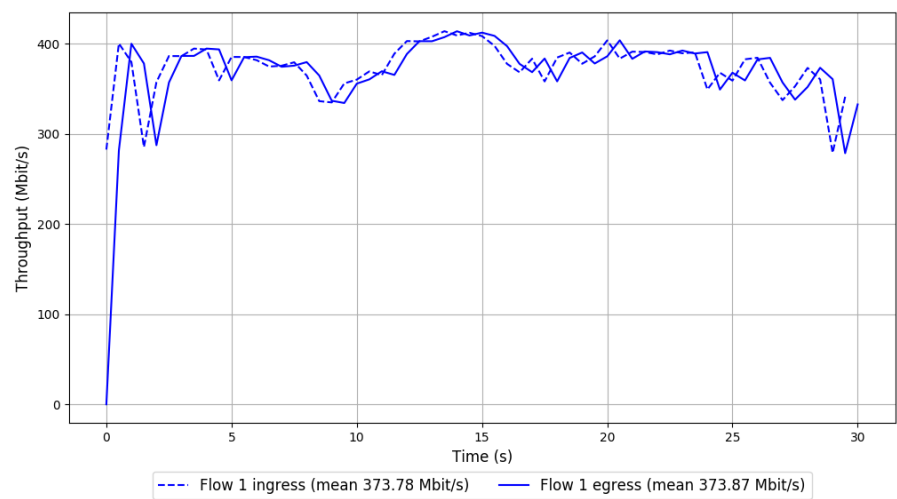
-- Flow 1:

Average throughput: 373.87 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.04%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 02:16:36

End at: 2018-06-19 02:17:06

Local clock offset: 3.652 ms

Remote clock offset: 2.442 ms

Below is generated by plot.py at 2018-06-19 06:14:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.30 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.07%

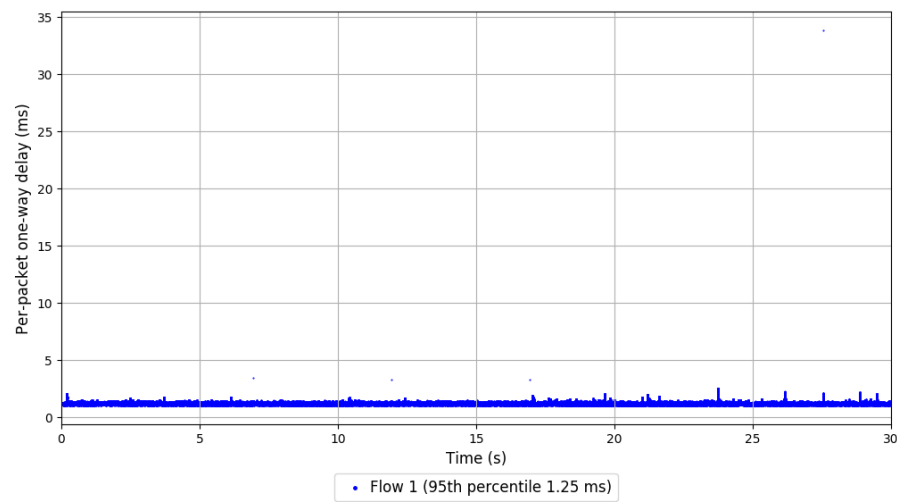
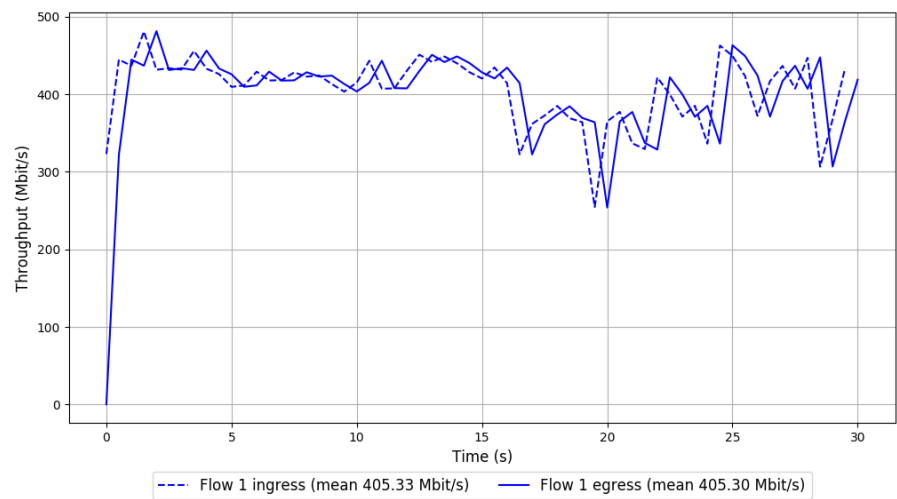
-- Flow 1:

Average throughput: 405.30 Mbit/s

95th percentile per-packet one-way delay: 1.245 ms

Loss rate: 0.07%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-19 02:40:46

End at: 2018-06-19 02:41:16

Local clock offset: 3.582 ms

Remote clock offset: 2.985 ms

Below is generated by plot.py at 2018-06-19 06:14:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.17 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.07%

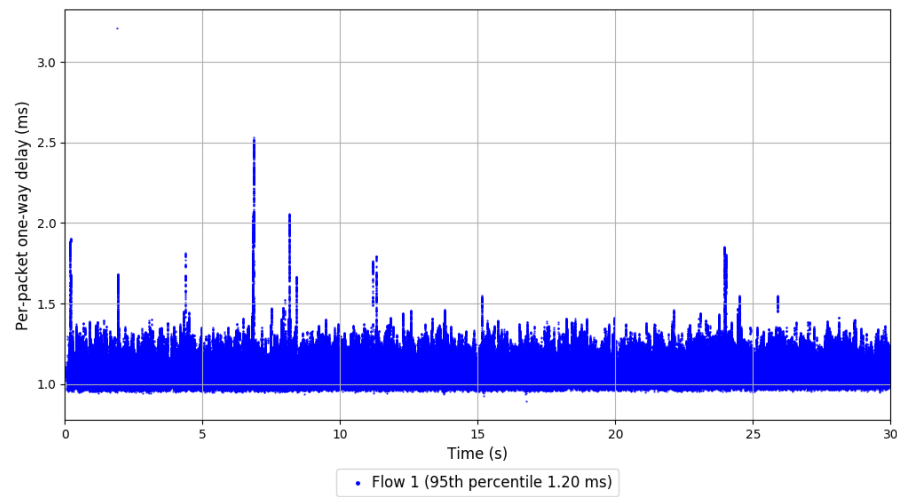
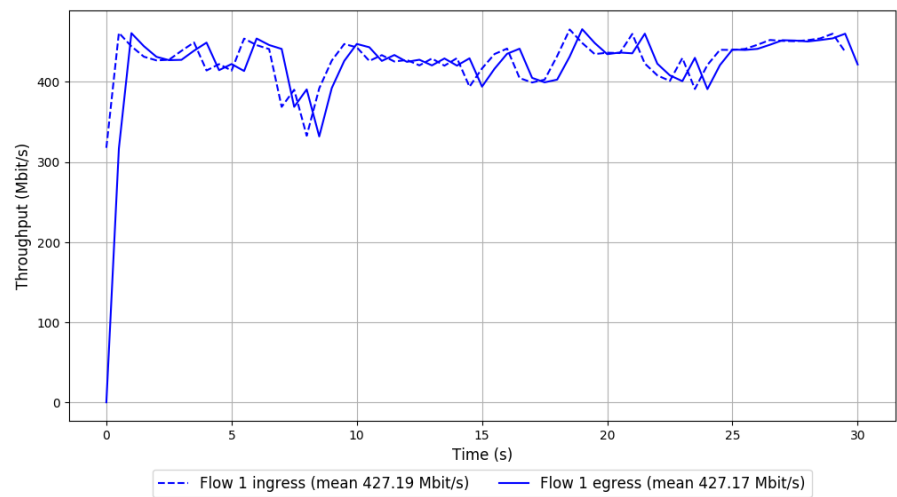
-- Flow 1:

Average throughput: 427.17 Mbit/s

95th percentile per-packet one-way delay: 1.196 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-06-19 03:05:05

End at: 2018-06-19 03:05:35

Local clock offset: 3.485 ms

Remote clock offset: 3.051 ms

Below is generated by plot.py at 2018-06-19 06:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 433.96 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.07%

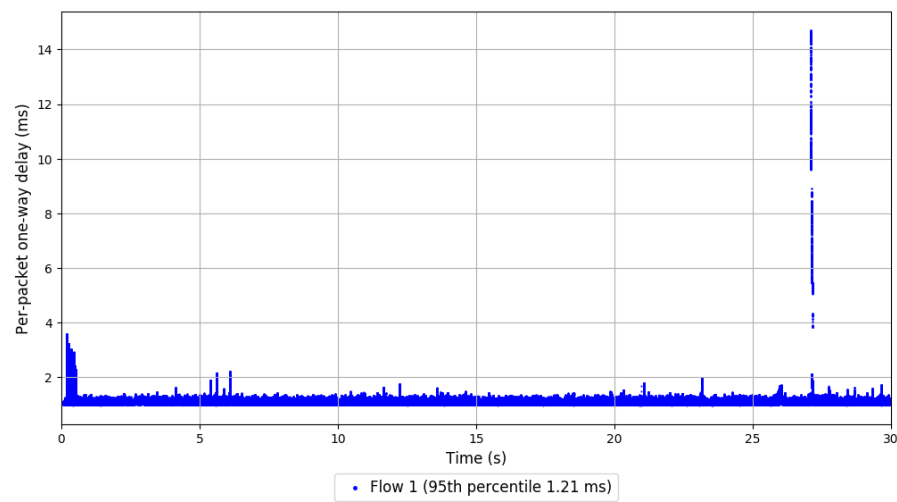
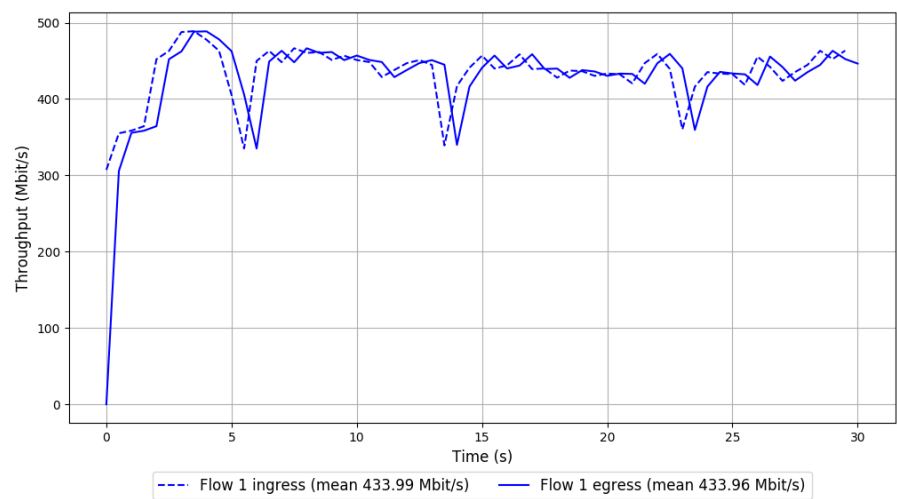
-- Flow 1:

Average throughput: 433.96 Mbit/s

95th percentile per-packet one-way delay: 1.206 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-19 03:29:18

End at: 2018-06-19 03:29:48

Local clock offset: 3.358 ms

Remote clock offset: 3.266 ms

Below is generated by plot.py at 2018-06-19 06:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.78 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.06%

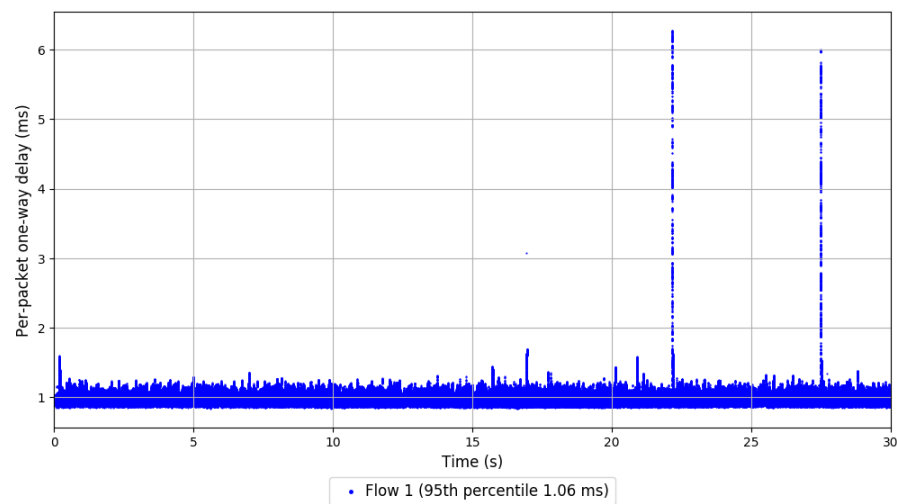
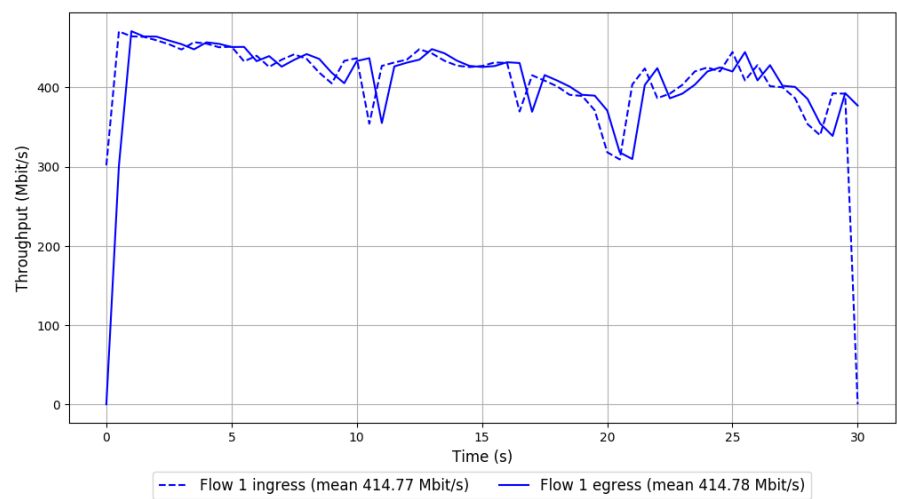
-- Flow 1:

Average throughput: 414.78 Mbit/s

95th percentile per-packet one-way delay: 1.059 ms

Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-19 03:53:32

End at: 2018-06-19 03:54:03

Local clock offset: 3.766 ms

Remote clock offset: 3.568 ms

Below is generated by plot.py at 2018-06-19 06:15:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 400.63 Mbit/s

95th percentile per-packet one-way delay: 1.352 ms

Loss rate: 0.06%

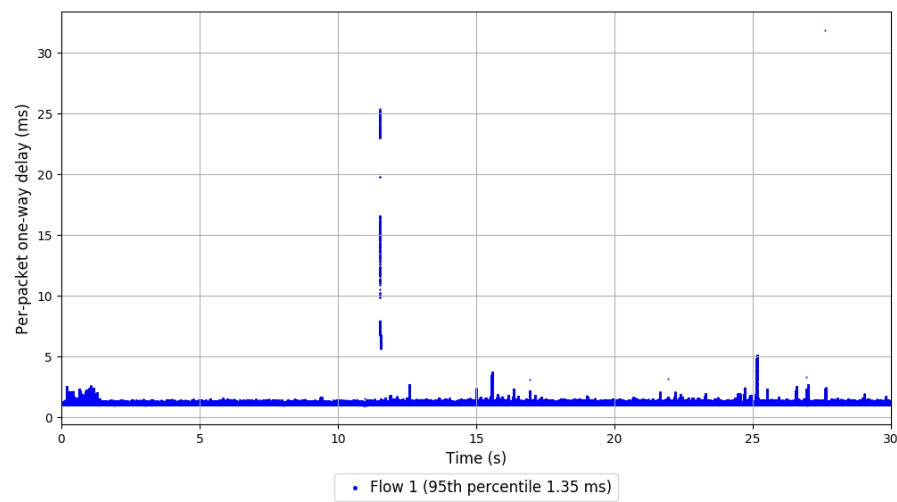
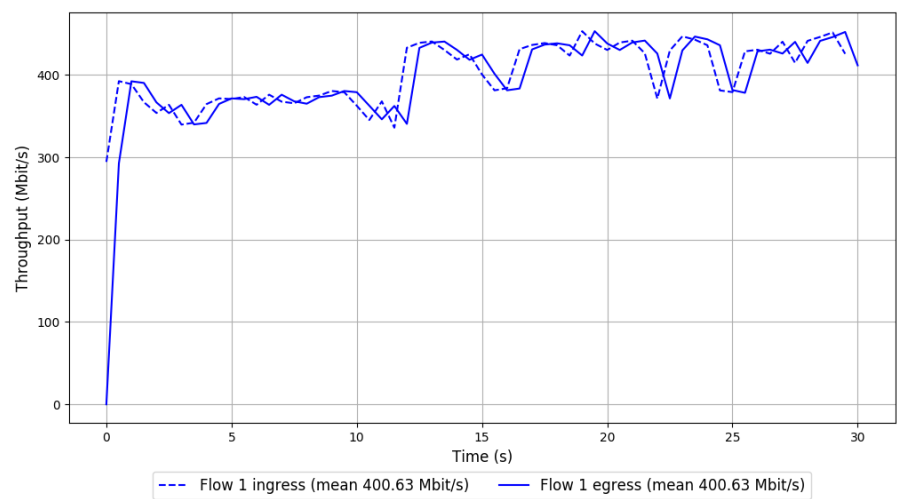
-- Flow 1:

Average throughput: 400.63 Mbit/s

95th percentile per-packet one-way delay: 1.352 ms

Loss rate: 0.06%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-19 04:17:45

End at: 2018-06-19 04:18:15

Local clock offset: 3.762 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2018-06-19 06:22:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.66 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.07%

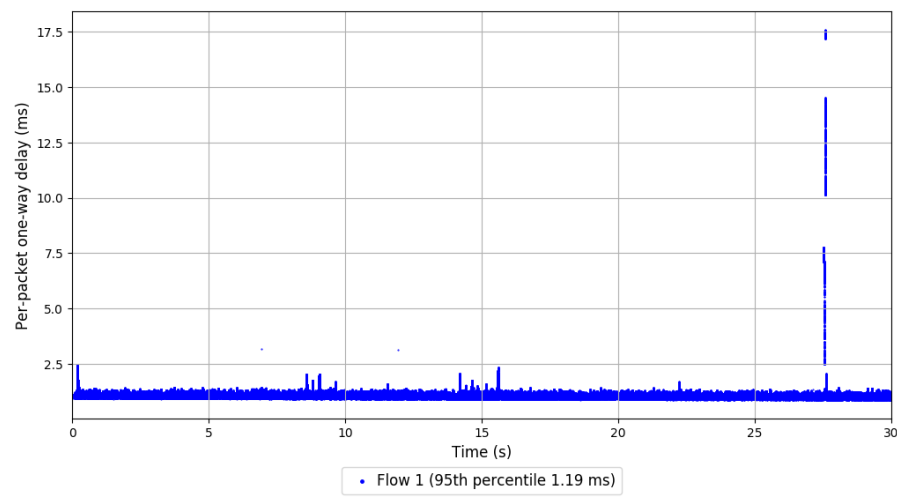
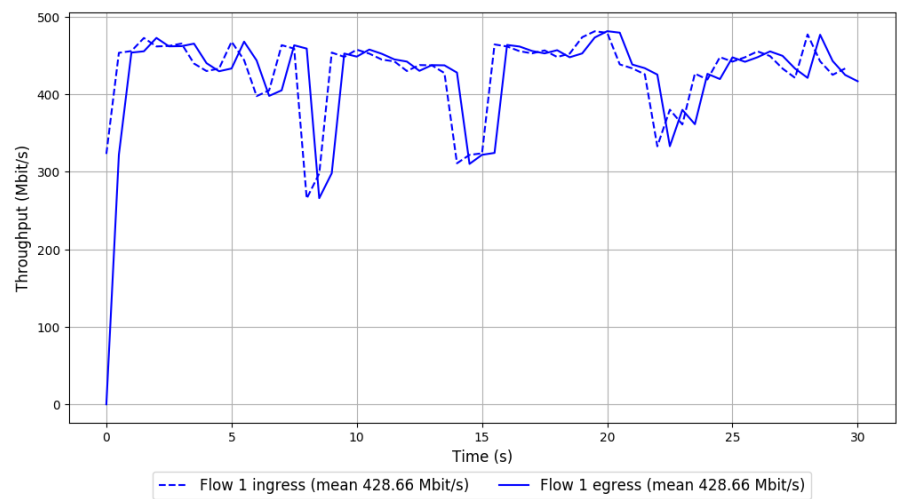
-- Flow 1:

Average throughput: 428.66 Mbit/s

95th percentile per-packet one-way delay: 1.192 ms

Loss rate: 0.07%

Run 7: Report of Copa — Data Link

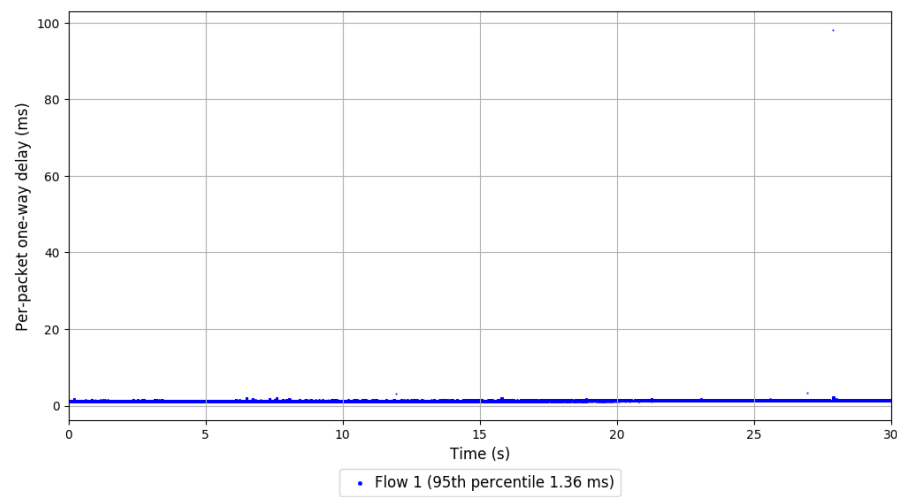
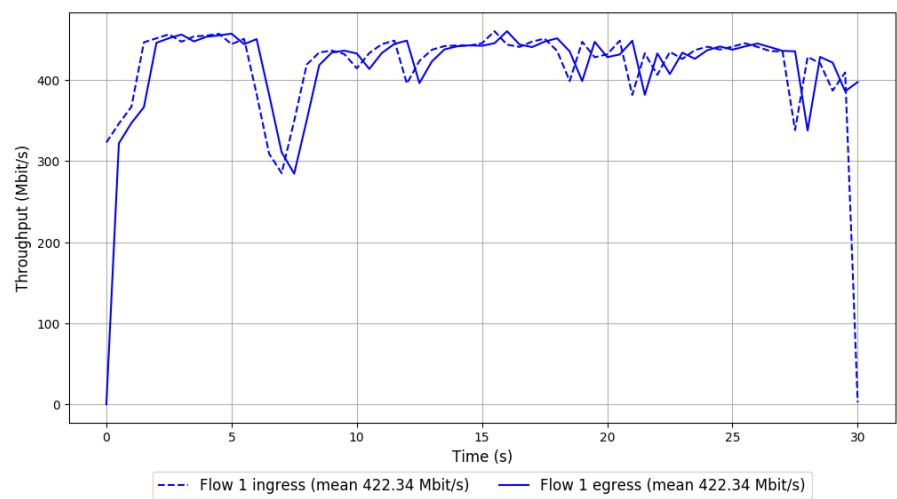


Run 8: Statistics of Copa

Start at: 2018-06-19 04:42:01
End at: 2018-06-19 04:42:32
Local clock offset: 3.723 ms
Remote clock offset: -0.772 ms

Below is generated by plot.py at 2018-06-19 06:22:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 422.34 Mbit/s
95th percentile per-packet one-way delay: 1.362 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 422.34 Mbit/s
95th percentile per-packet one-way delay: 1.362 ms
Loss rate: 0.06%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-06-19 05:06:20

End at: 2018-06-19 05:06:50

Local clock offset: 3.712 ms

Remote clock offset: 2.835 ms

Below is generated by plot.py at 2018-06-19 06:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.05 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.06%

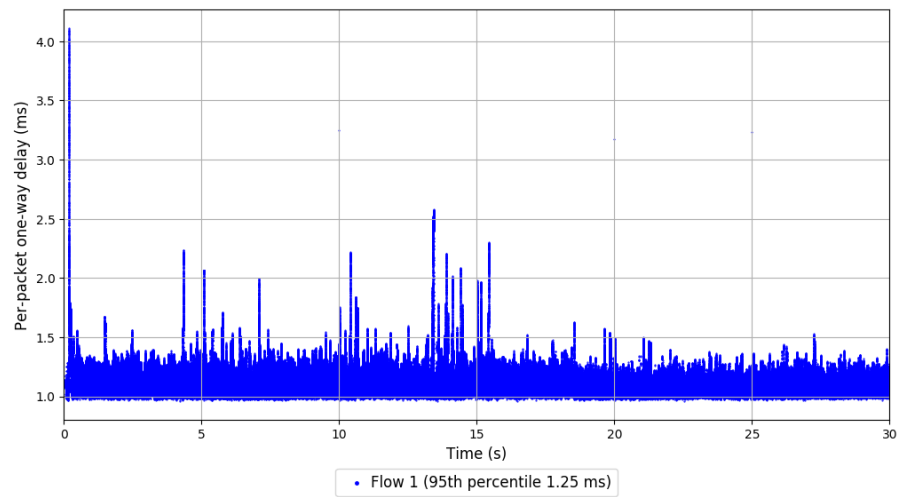
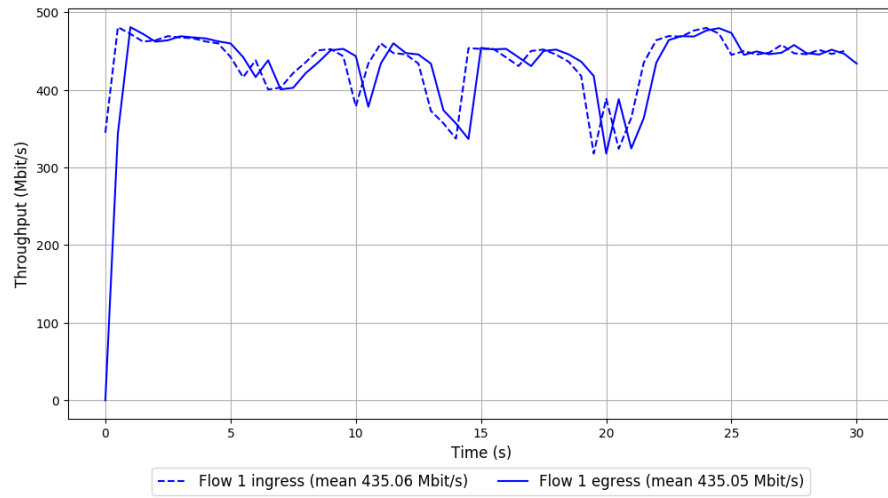
-- Flow 1:

Average throughput: 435.05 Mbit/s

95th percentile per-packet one-way delay: 1.255 ms

Loss rate: 0.06%

Run 9: Report of Copa — Data Link

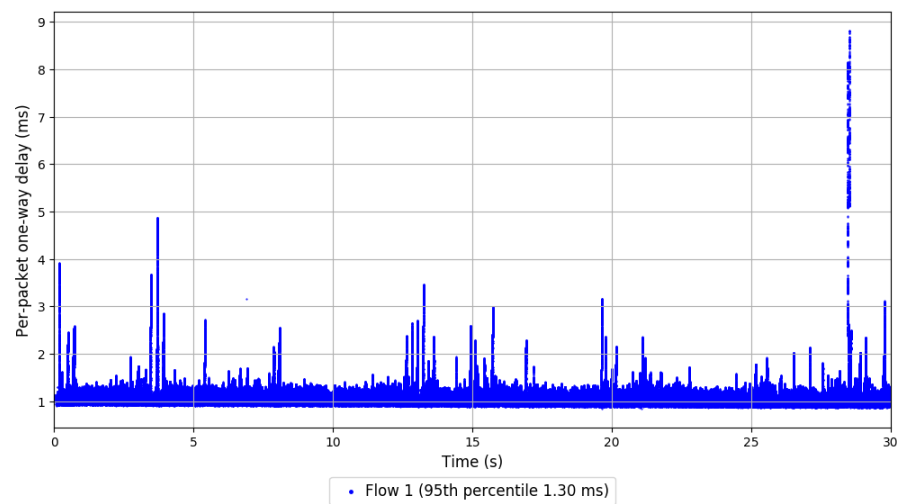
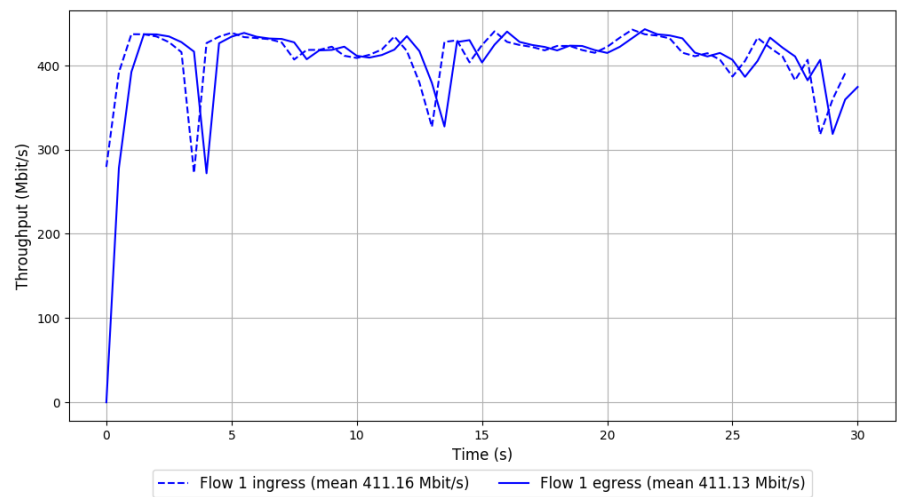


Run 10: Statistics of Copa

Start at: 2018-06-19 05:30:40
End at: 2018-06-19 05:31:10
Local clock offset: 3.711 ms
Remote clock offset: -0.456 ms

Below is generated by plot.py at 2018-06-19 06:23:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 411.13 Mbit/s
95th percentile per-packet one-way delay: 1.300 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 411.13 Mbit/s
95th percentile per-packet one-way delay: 1.300 ms
Loss rate: 0.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 01:59:57

End at: 2018-06-19 02:00:27

Local clock offset: 3.674 ms

Remote clock offset: 2.422 ms

Below is generated by plot.py at 2018-06-19 06:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 508.77 Mbit/s

95th percentile per-packet one-way delay: 1.344 ms

Loss rate: 0.07%

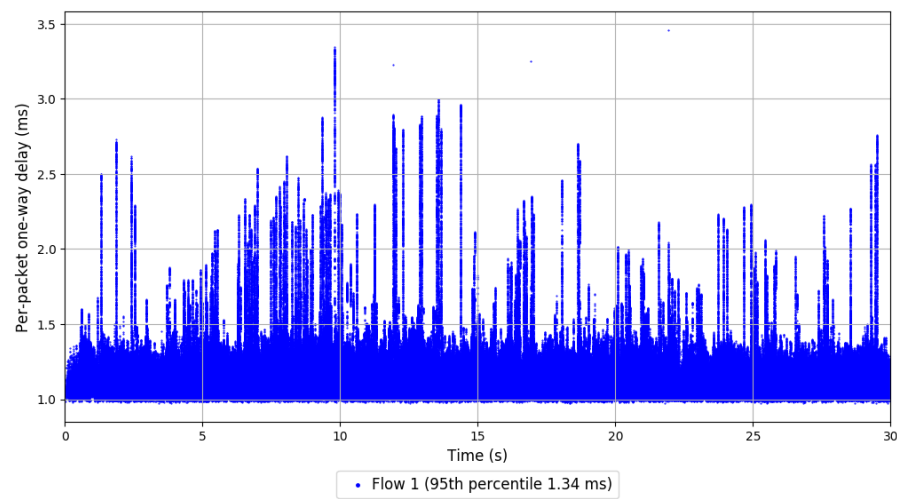
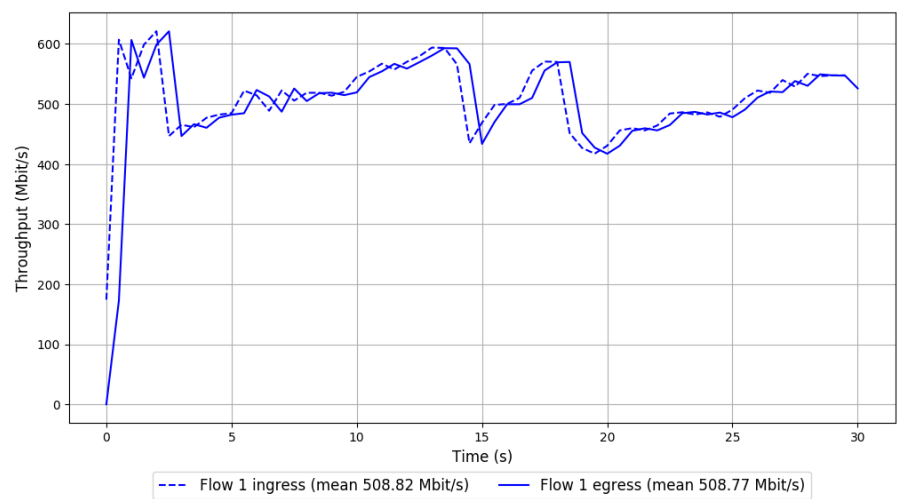
-- Flow 1:

Average throughput: 508.77 Mbit/s

95th percentile per-packet one-way delay: 1.344 ms

Loss rate: 0.07%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 02:24:15

End at: 2018-06-19 02:24:45

Local clock offset: 3.617 ms

Remote clock offset: 2.519 ms

Below is generated by plot.py at 2018-06-19 06:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 513.85 Mbit/s

95th percentile per-packet one-way delay: 1.412 ms

Loss rate: 0.07%

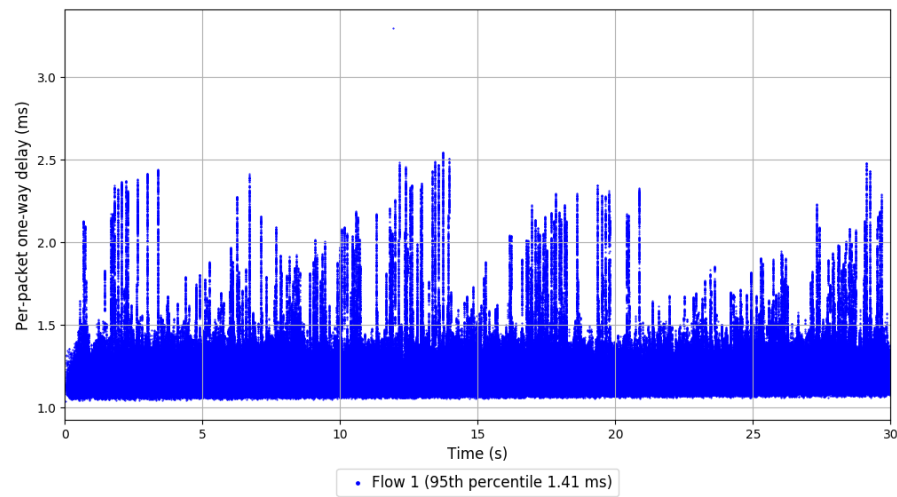
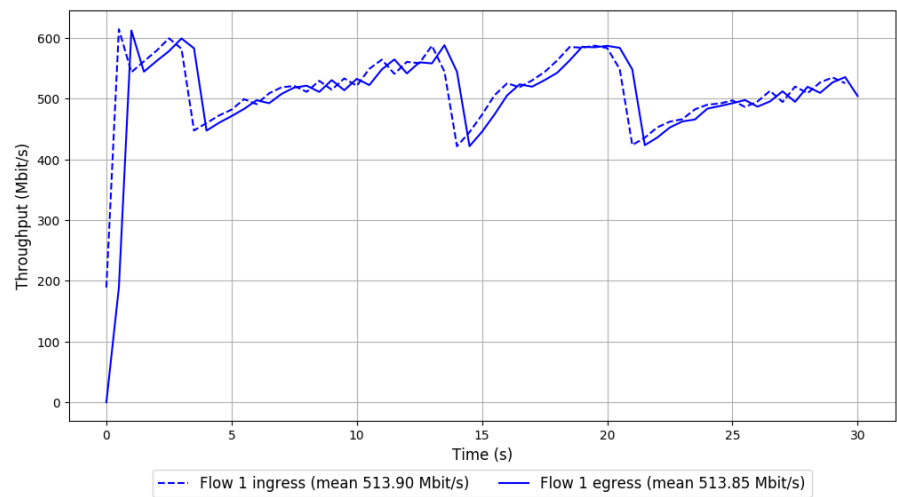
-- Flow 1:

Average throughput: 513.85 Mbit/s

95th percentile per-packet one-way delay: 1.412 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 02:48:26

End at: 2018-06-19 02:48:56

Local clock offset: 3.561 ms

Remote clock offset: 3.063 ms

Below is generated by plot.py at 2018-06-19 06:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.52 Mbit/s

95th percentile per-packet one-way delay: 1.324 ms

Loss rate: 0.06%

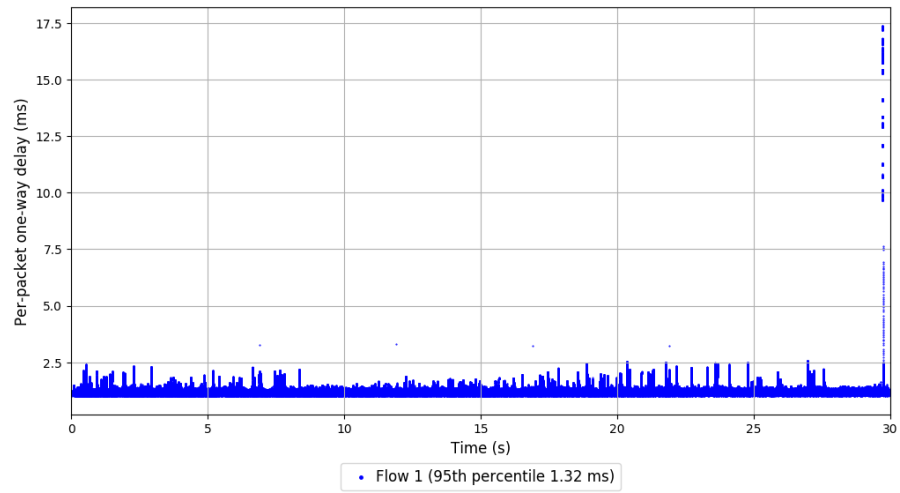
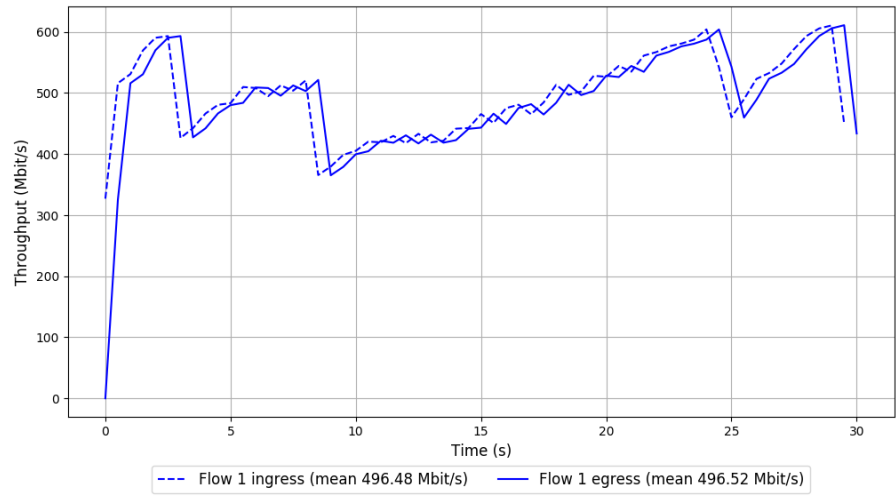
-- Flow 1:

Average throughput: 496.52 Mbit/s

95th percentile per-packet one-way delay: 1.324 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 03:12:46

End at: 2018-06-19 03:13:16

Local clock offset: 3.497 ms

Remote clock offset: 3.05 ms

Below is generated by plot.py at 2018-06-19 06:23:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.40 Mbit/s

95th percentile per-packet one-way delay: 8.950 ms

Loss rate: 0.05%

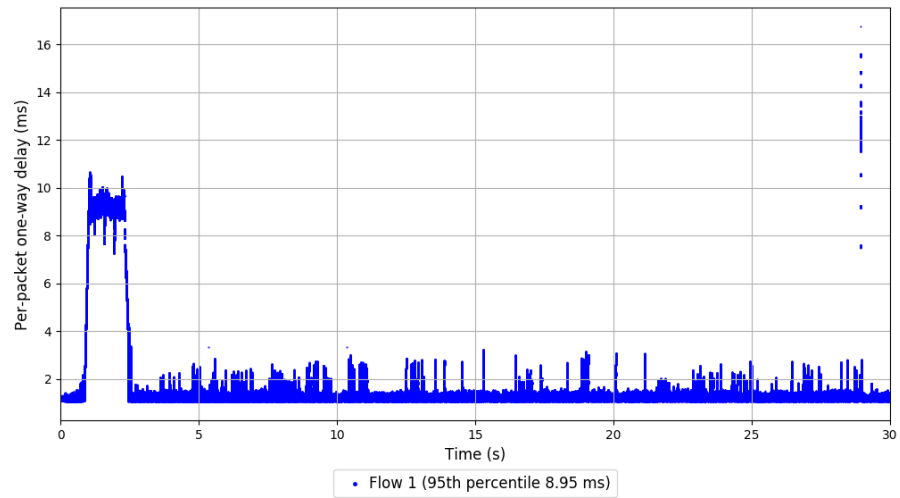
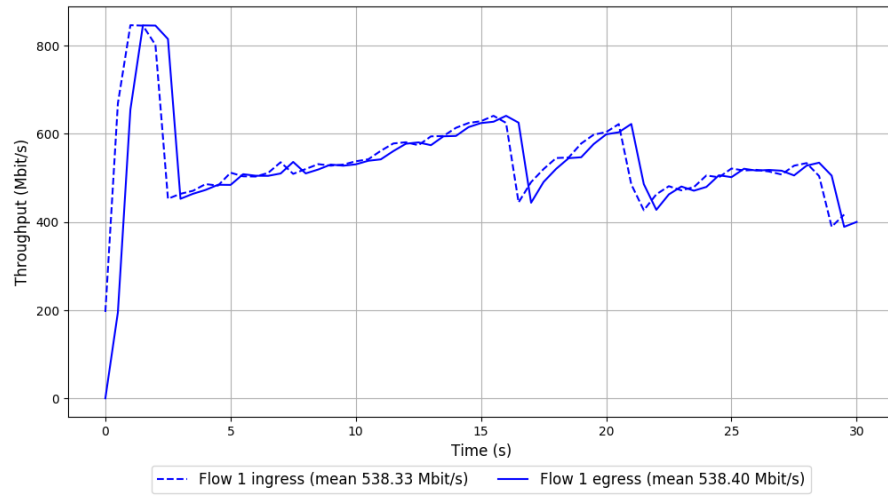
-- Flow 1:

Average throughput: 538.40 Mbit/s

95th percentile per-packet one-way delay: 8.950 ms

Loss rate: 0.05%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 03:36:58

End at: 2018-06-19 03:37:28

Local clock offset: 3.545 ms

Remote clock offset: 3.392 ms

Below is generated by plot.py at 2018-06-19 06:25:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 510.33 Mbit/s

95th percentile per-packet one-way delay: 1.347 ms

Loss rate: 0.07%

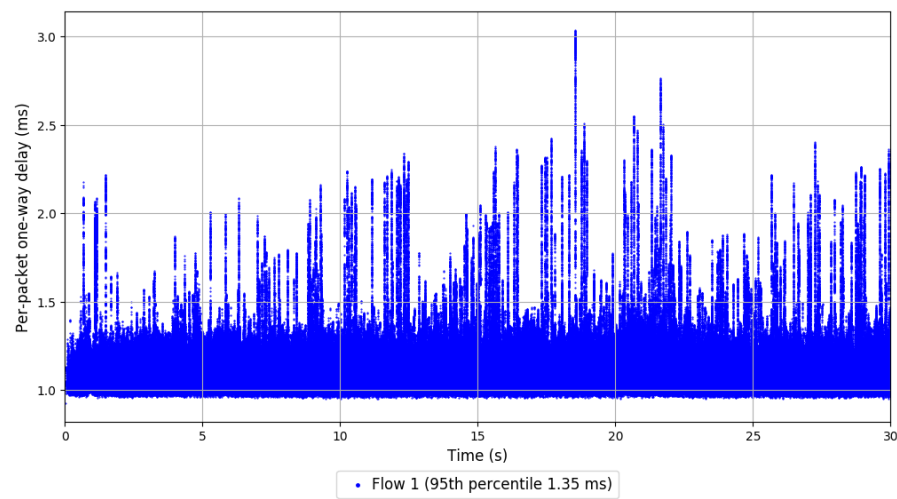
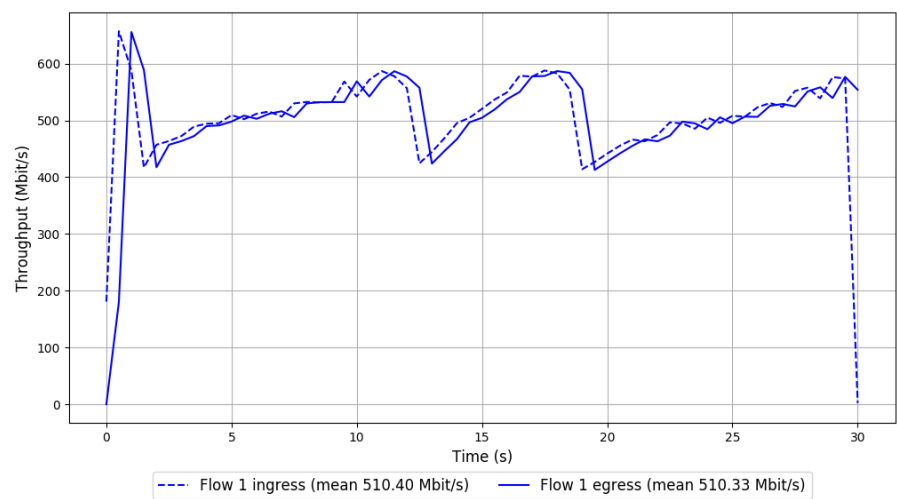
-- Flow 1:

Average throughput: 510.33 Mbit/s

95th percentile per-packet one-way delay: 1.347 ms

Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 04:01:06

End at: 2018-06-19 04:01:36

Local clock offset: 3.799 ms

Remote clock offset: 3.683 ms

Below is generated by plot.py at 2018-06-19 06:25:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 515.02 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.07%

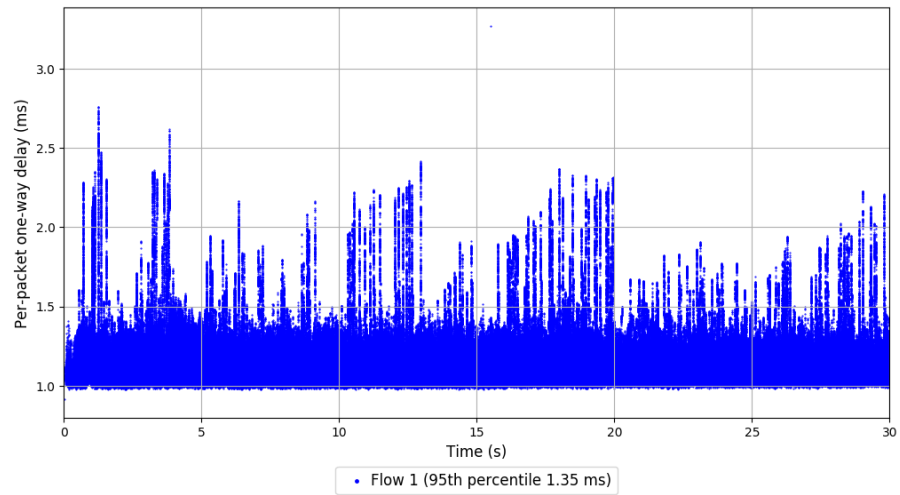
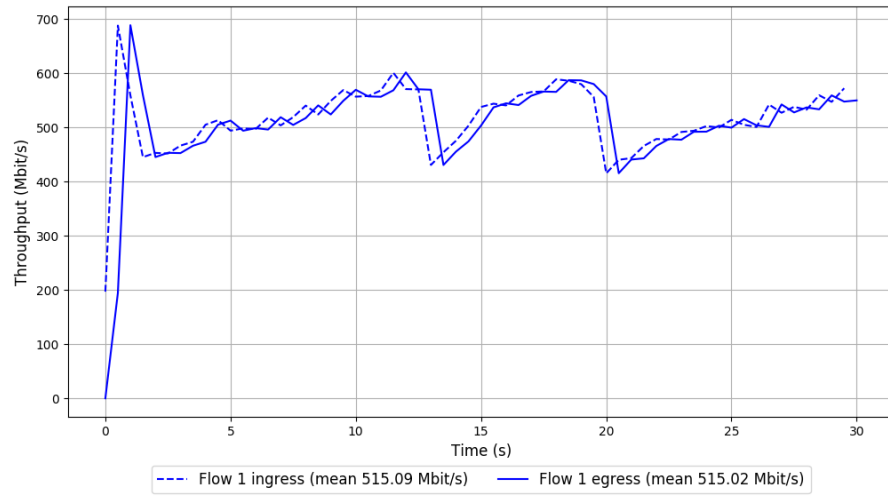
-- Flow 1:

Average throughput: 515.02 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.07%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 04:25:27

End at: 2018-06-19 04:25:57

Local clock offset: 3.768 ms

Remote clock offset: -0.8 ms

Below is generated by plot.py at 2018-06-19 06:25:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 491.87 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.07%

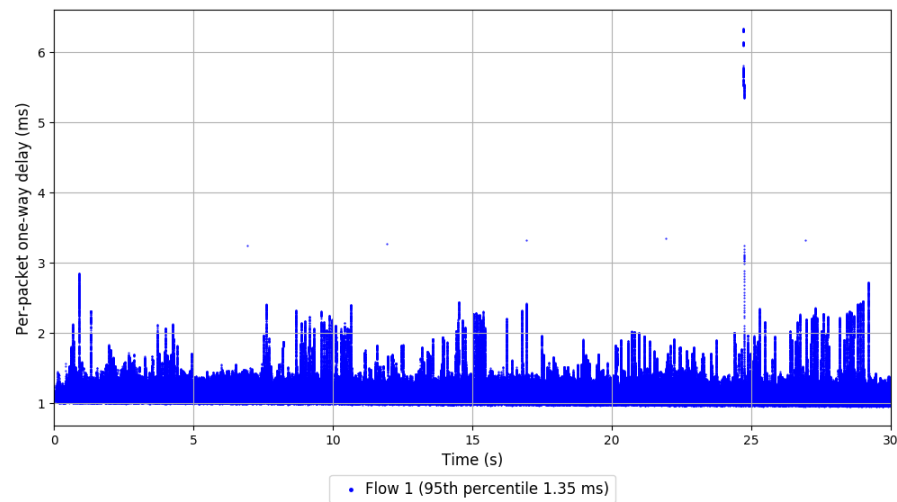
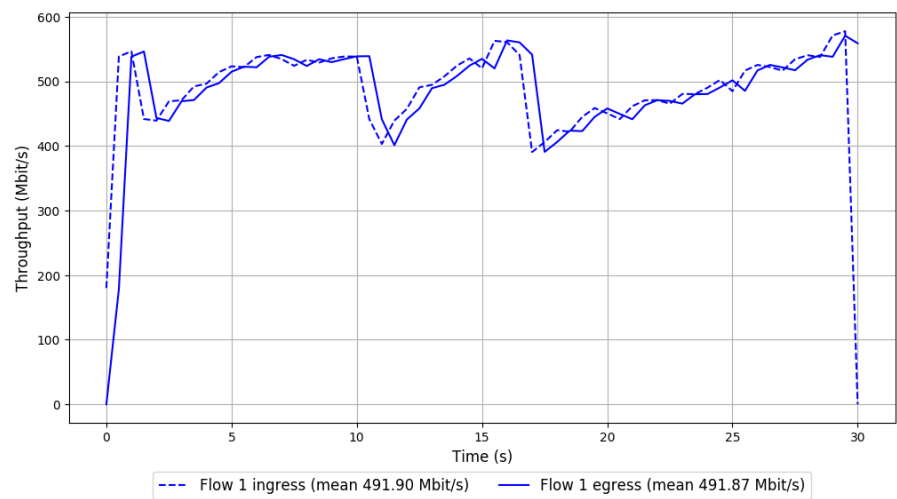
-- Flow 1:

Average throughput: 491.87 Mbit/s

95th percentile per-packet one-way delay: 1.349 ms

Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 04:49:43

End at: 2018-06-19 04:50:13

Local clock offset: 3.712 ms

Remote clock offset: 1.424 ms

Below is generated by plot.py at 2018-06-19 06:26:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 483.17 Mbit/s

95th percentile per-packet one-way delay: 1.367 ms

Loss rate: 0.08%

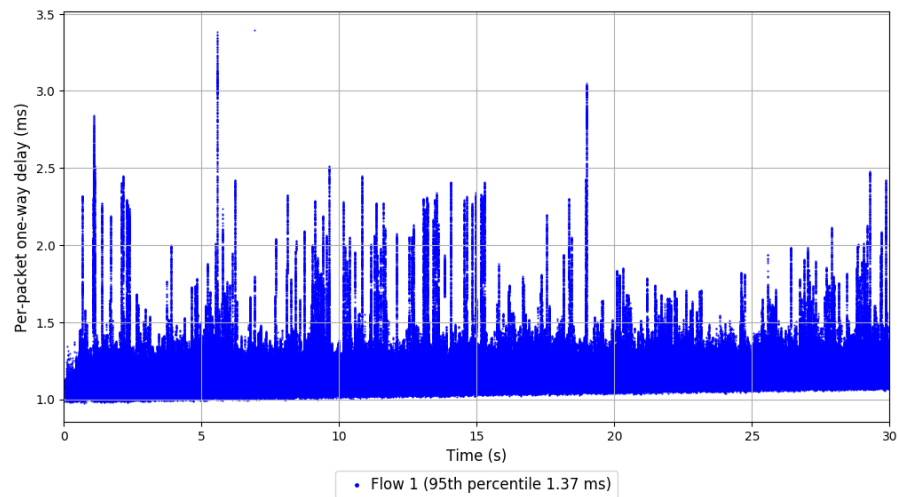
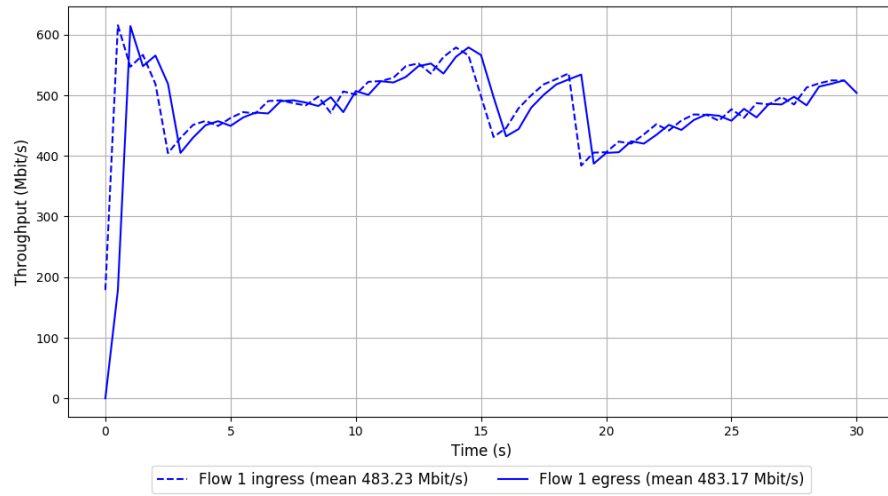
-- Flow 1:

Average throughput: 483.17 Mbit/s

95th percentile per-packet one-way delay: 1.367 ms

Loss rate: 0.08%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 05:14:00

End at: 2018-06-19 05:14:31

Local clock offset: 3.614 ms

Remote clock offset: 2.982 ms

Below is generated by plot.py at 2018-06-19 06:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 516.31 Mbit/s

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

Loss rate: 0.07%

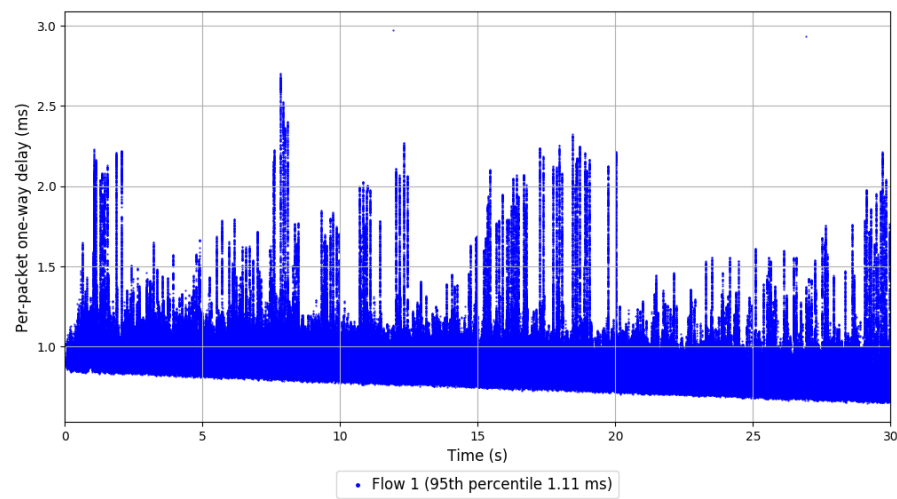
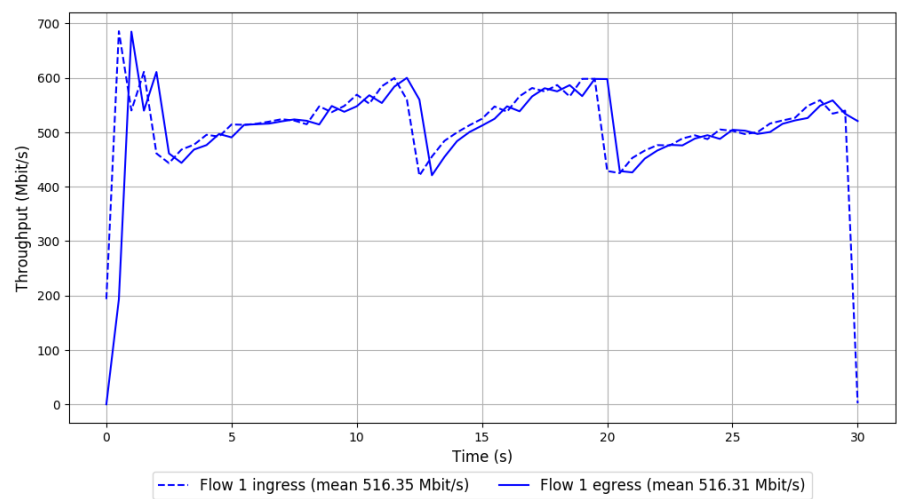
-- Flow 1:

Average throughput: 516.31 Mbit/s

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

Loss rate: 0.07%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 05:38:23

End at: 2018-06-19 05:38:53

Local clock offset: 3.644 ms

Remote clock offset: -1.174 ms

Below is generated by plot.py at 2018-06-19 06:28:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 444.42 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.07%

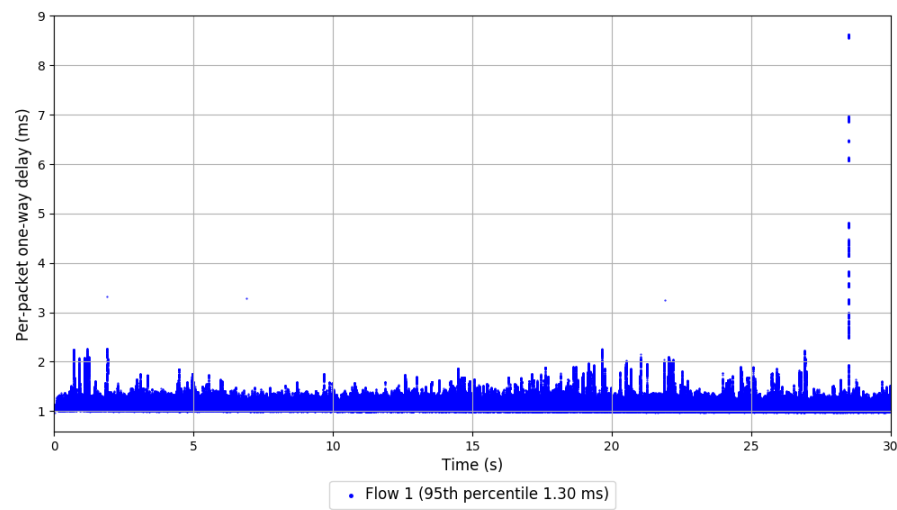
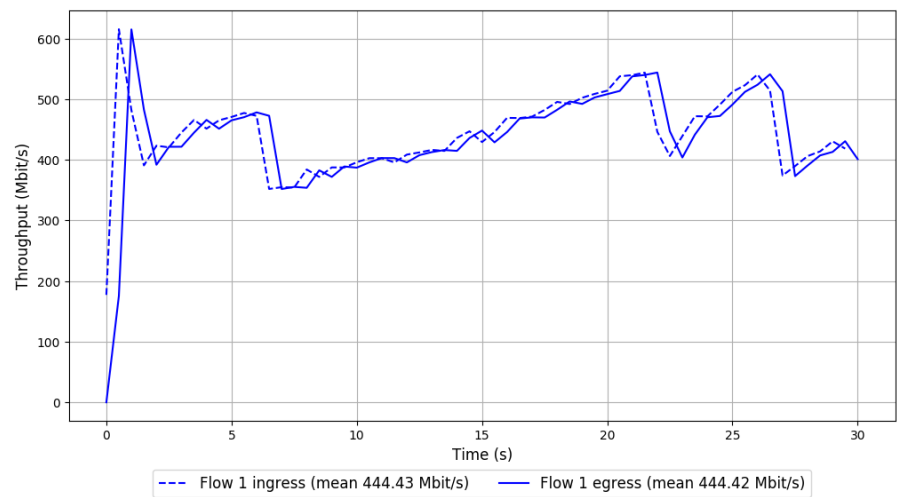
-- Flow 1:

Average throughput: 444.42 Mbit/s

95th percentile per-packet one-way delay: 1.299 ms

Loss rate: 0.07%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-19 01:41:50

End at: 2018-06-19 01:42:20

Local clock offset: 3.561 ms

Remote clock offset: 2.81 ms

Below is generated by plot.py at 2018-06-19 06:34:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 852.27 Mbit/s

95th percentile per-packet one-way delay: 32.572 ms

Loss rate: 0.66%

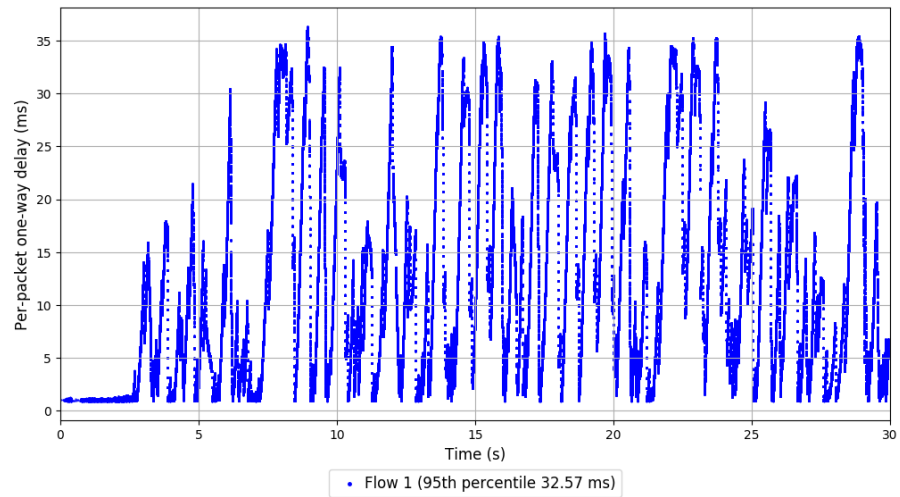
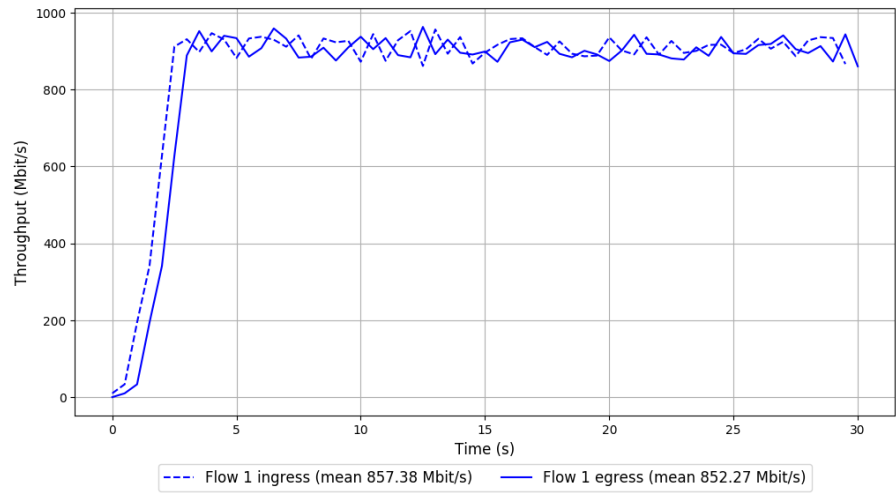
-- Flow 1:

Average throughput: 852.27 Mbit/s

95th percentile per-packet one-way delay: 32.572 ms

Loss rate: 0.66%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-19 02:06:08

End at: 2018-06-19 02:06:38

Local clock offset: 3.665 ms

Remote clock offset: 2.472 ms

Below is generated by plot.py at 2018-06-19 06:36:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.80 Mbit/s

95th percentile per-packet one-way delay: 1.805 ms

Loss rate: 0.07%

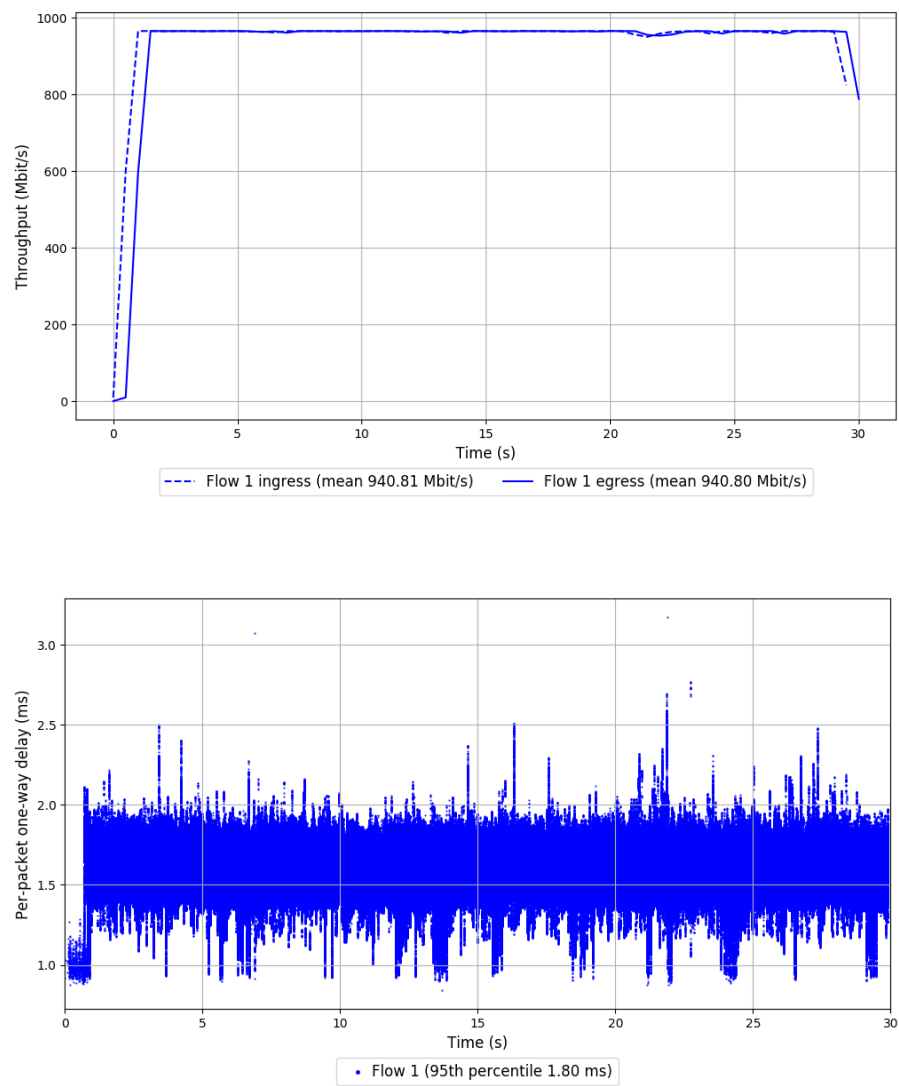
-- Flow 1:

Average throughput: 940.80 Mbit/s

95th percentile per-packet one-way delay: 1.805 ms

Loss rate: 0.07%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-06-19 02:30:26

End at: 2018-06-19 02:30:56

Local clock offset: 3.472 ms

Remote clock offset: 2.746 ms

Below is generated by plot.py at 2018-06-19 06:38:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 836.40 Mbit/s

95th percentile per-packet one-way delay: 30.946 ms

Loss rate: 0.45%

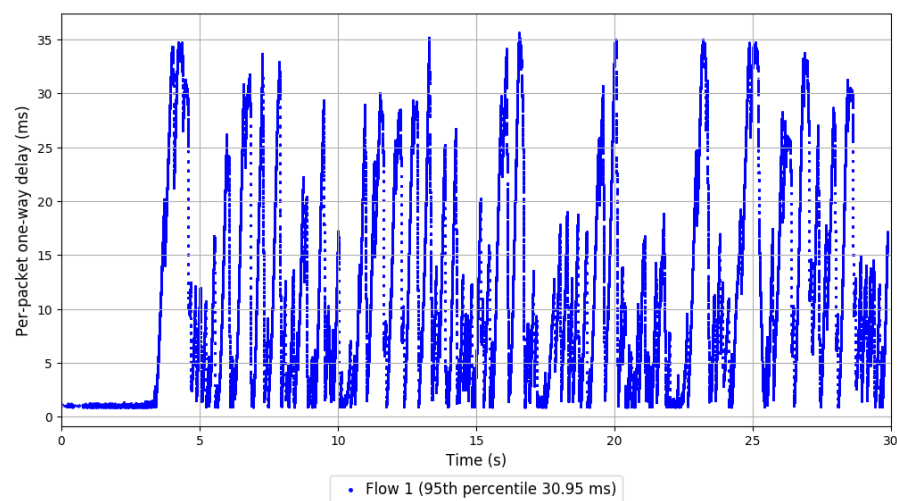
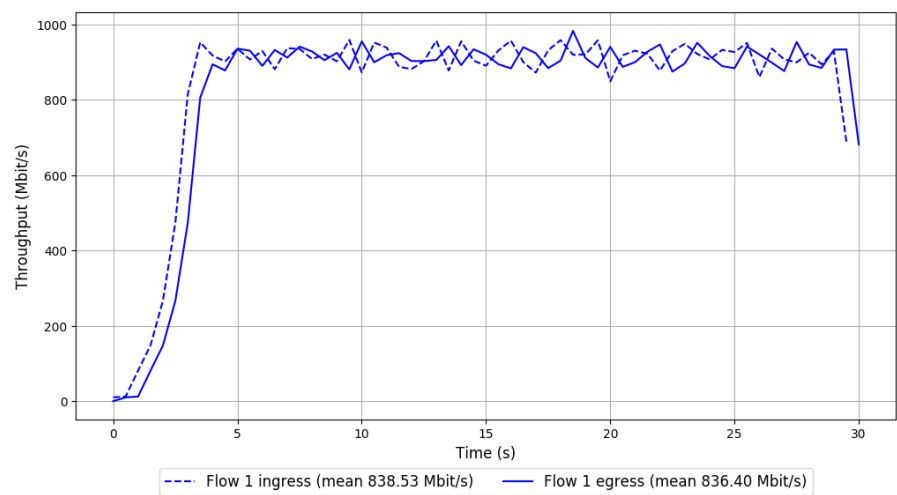
-- Flow 1:

Average throughput: 836.40 Mbit/s

95th percentile per-packet one-way delay: 30.946 ms

Loss rate: 0.45%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-06-19 02:54:36

End at: 2018-06-19 02:55:06

Local clock offset: 3.457 ms

Remote clock offset: 3.232 ms

Below is generated by plot.py at 2018-06-19 06:38:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.81 Mbit/s

95th percentile per-packet one-way delay: 1.766 ms

Loss rate: 0.08%

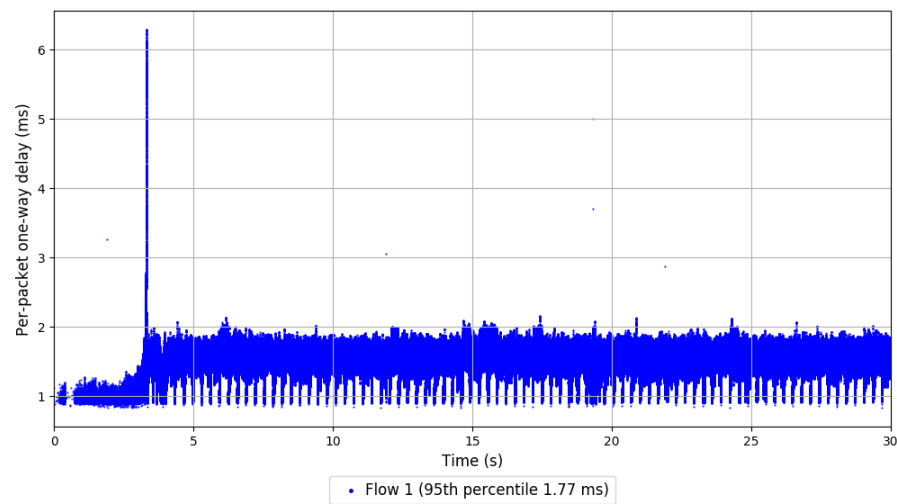
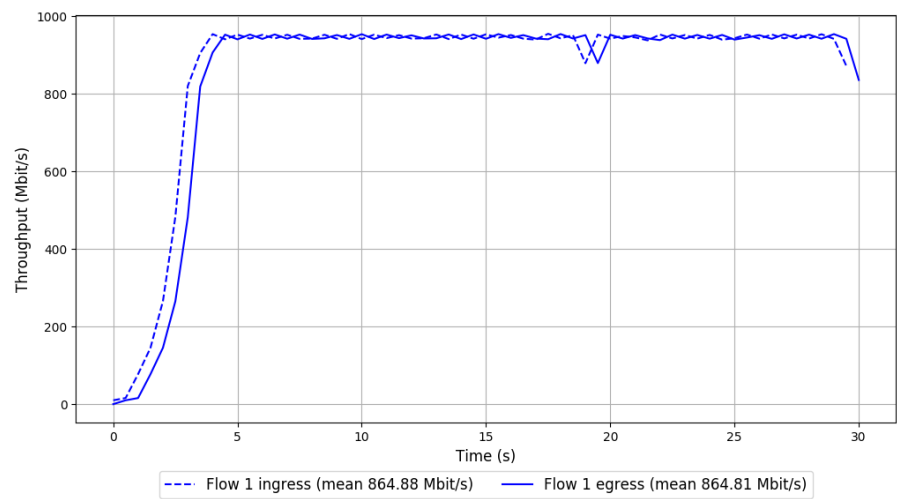
-- Flow 1:

Average throughput: 864.81 Mbit/s

95th percentile per-packet one-way delay: 1.766 ms

Loss rate: 0.08%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-19 03:18:56

End at: 2018-06-19 03:19:26

Local clock offset: 3.452 ms

Remote clock offset: 3.119 ms

Below is generated by plot.py at 2018-06-19 06:39:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 930.37 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.07%

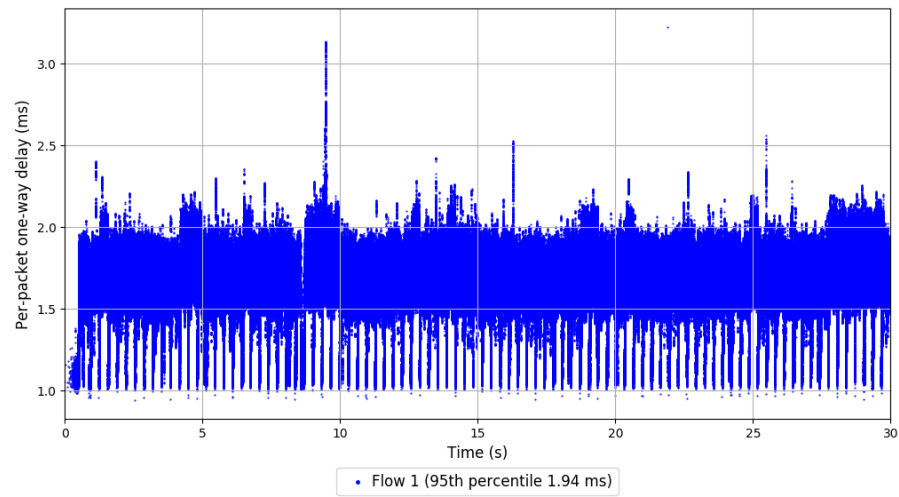
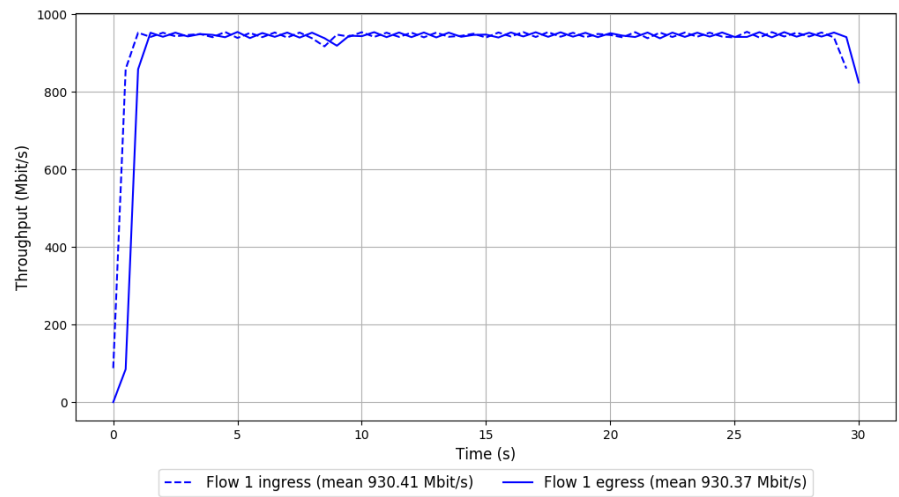
-- Flow 1:

Average throughput: 930.37 Mbit/s

95th percentile per-packet one-way delay: 1.943 ms

Loss rate: 0.07%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-19 03:43:08

End at: 2018-06-19 03:43:38

Local clock offset: 3.669 ms

Remote clock offset: 3.452 ms

Below is generated by plot.py at 2018-06-19 06:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 930.13 Mbit/s

95th percentile per-packet one-way delay: 1.913 ms

Loss rate: 0.05%

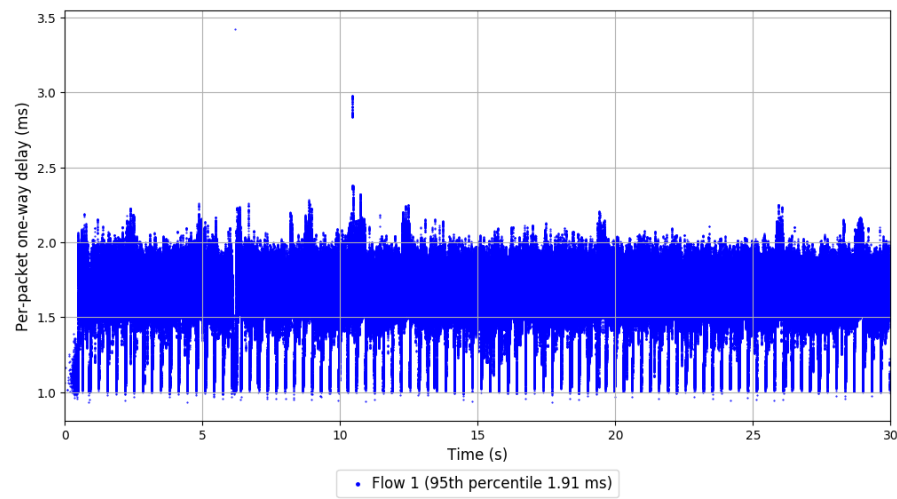
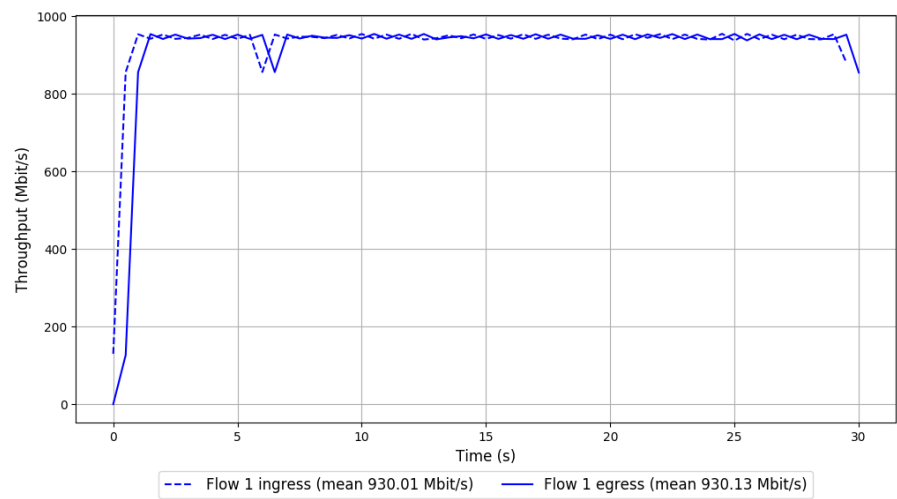
-- Flow 1:

Average throughput: 930.13 Mbit/s

95th percentile per-packet one-way delay: 1.913 ms

Loss rate: 0.05%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 04:07:16

End at: 2018-06-19 04:07:46

Local clock offset: 3.759 ms

Remote clock offset: 3.011 ms

Below is generated by plot.py at 2018-06-19 06:40:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 939.50 Mbit/s

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

Loss rate: 0.07%

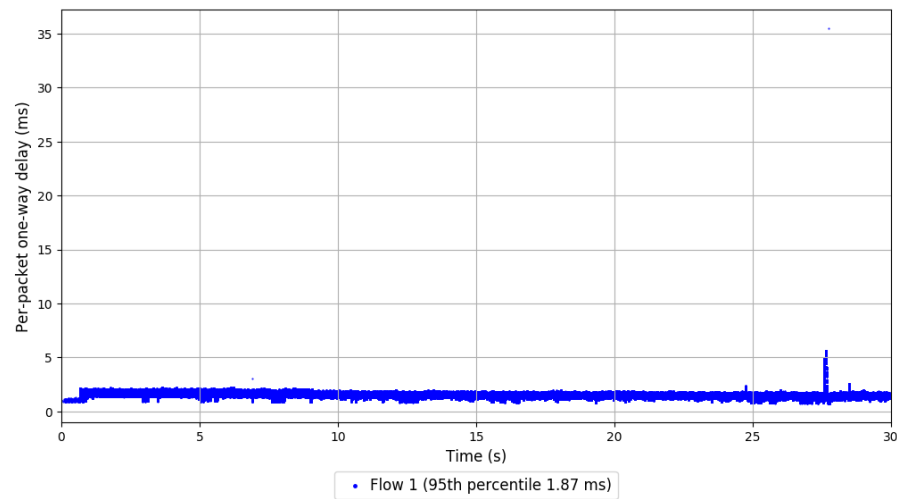
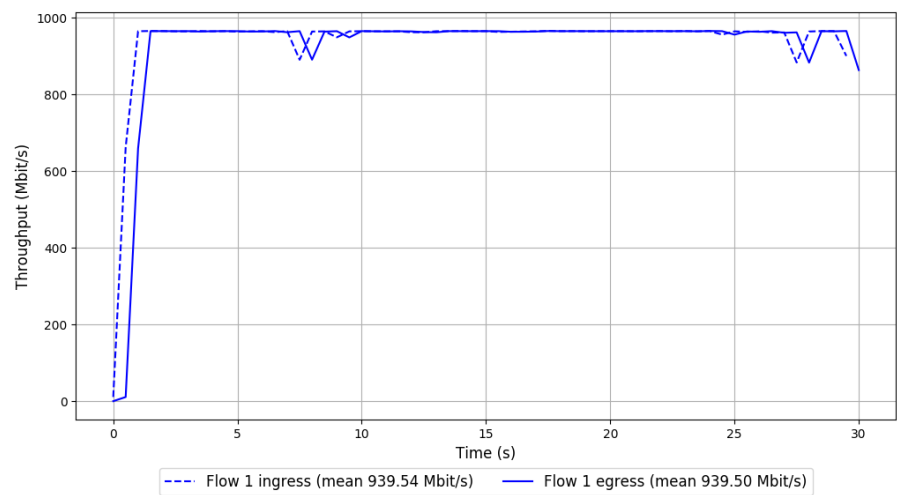
-- Flow 1:

Average throughput: 939.50 Mbit/s

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

Loss rate: 0.07%

Run 7: Report of FillP — Data Link

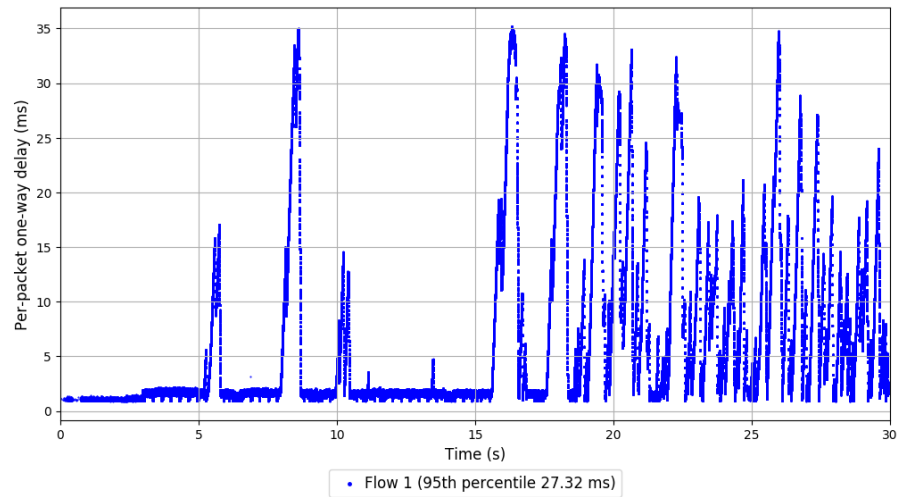
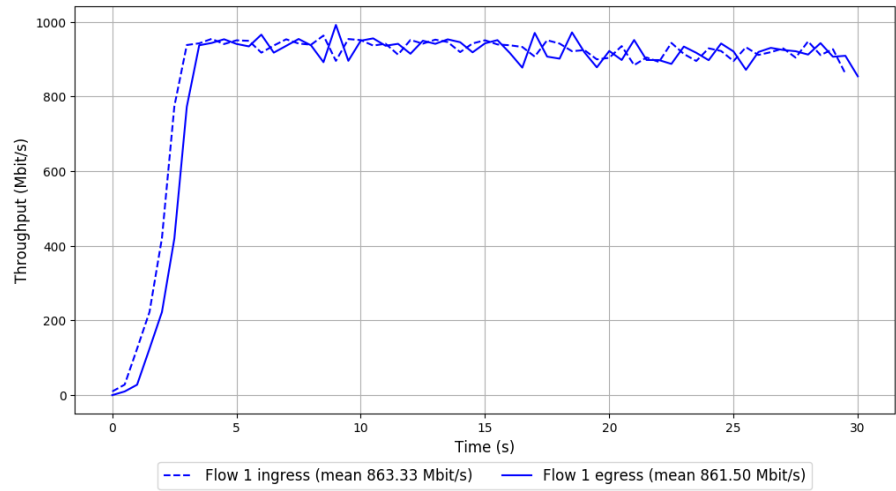


Run 8: Statistics of FillP

Start at: 2018-06-19 04:31:36
End at: 2018-06-19 04:32:06
Local clock offset: 3.775 ms
Remote clock offset: -1.282 ms

Below is generated by plot.py at 2018-06-19 06:40:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 861.50 Mbit/s
95th percentile per-packet one-way delay: 27.317 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 861.50 Mbit/s
95th percentile per-packet one-way delay: 27.317 ms
Loss rate: 0.28%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-06-19 04:55:53

End at: 2018-06-19 04:56:23

Local clock offset: 3.632 ms

Remote clock offset: 2.209 ms

Below is generated by plot.py at 2018-06-19 06:48:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 914.27 Mbit/s

95th percentile per-packet one-way delay: 1.822 ms

Loss rate: 0.07%

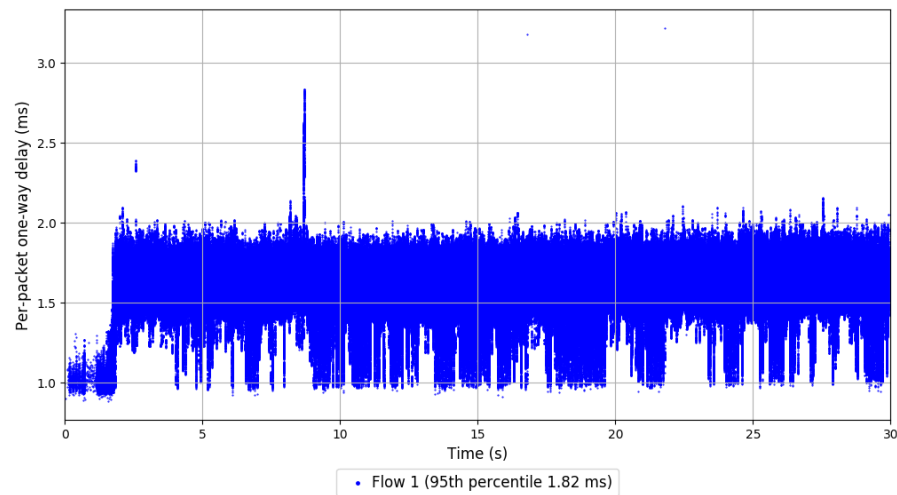
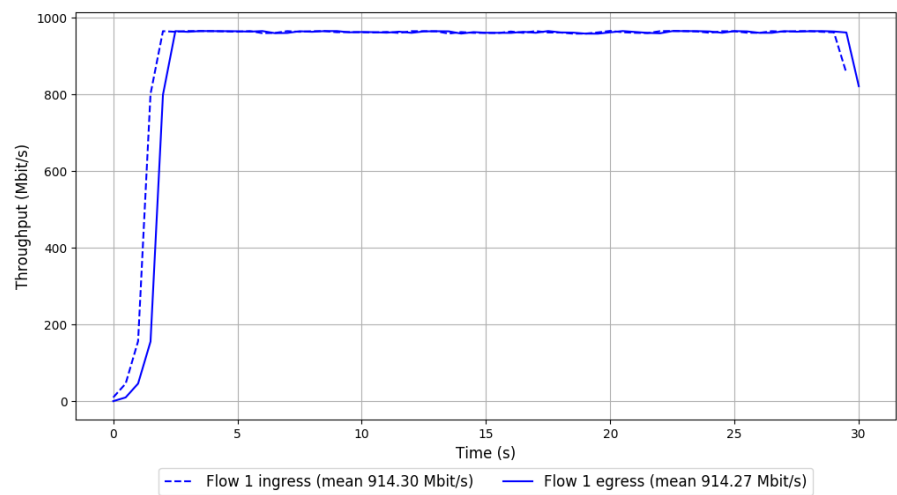
-- Flow 1:

Average throughput: 914.27 Mbit/s

95th percentile per-packet one-way delay: 1.822 ms

Loss rate: 0.07%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-06-19 05:20:12

End at: 2018-06-19 05:20:42

Local clock offset: 3.616 ms

Remote clock offset: 1.101 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 940.74 Mbit/s

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

Loss rate: 0.01%

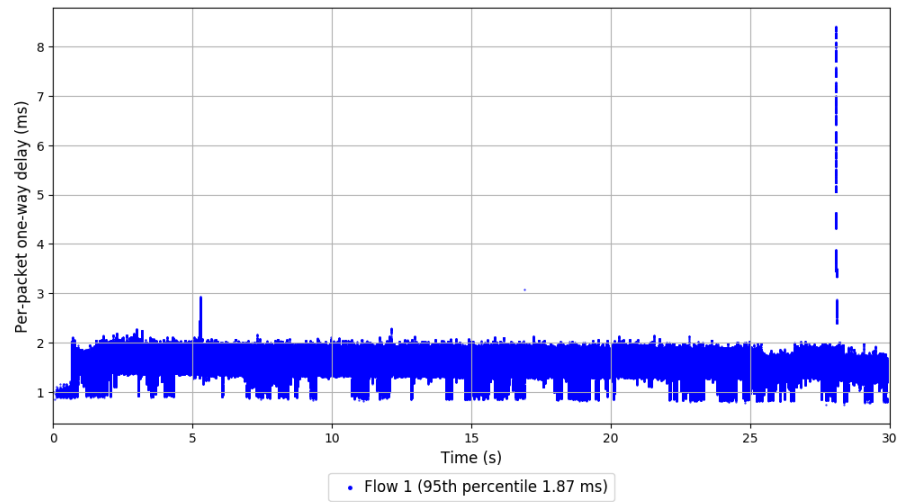
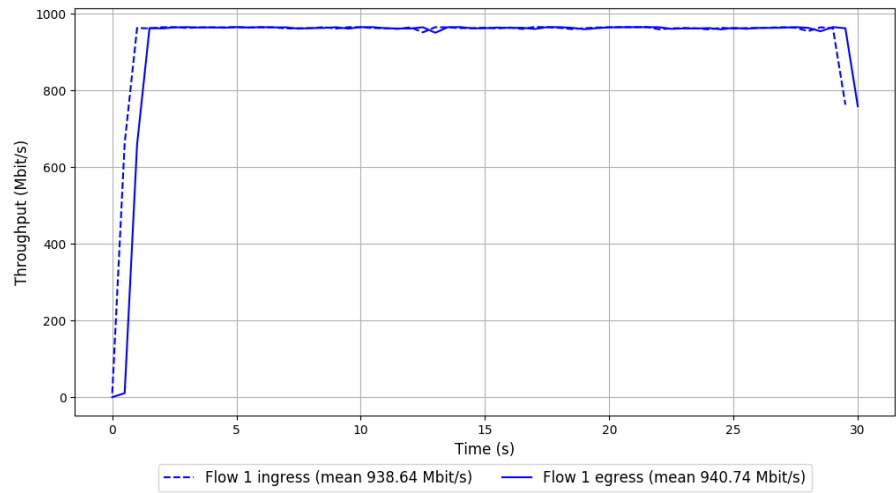
-- Flow 1:

Average throughput: 940.74 Mbit/s

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

Loss rate: 0.01%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2018-06-19 01:55:40

End at: 2018-06-19 01:56:10

Local clock offset: 3.594 ms

Remote clock offset: 2.571 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.49 Mbit/s

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

Loss rate: 0.07%

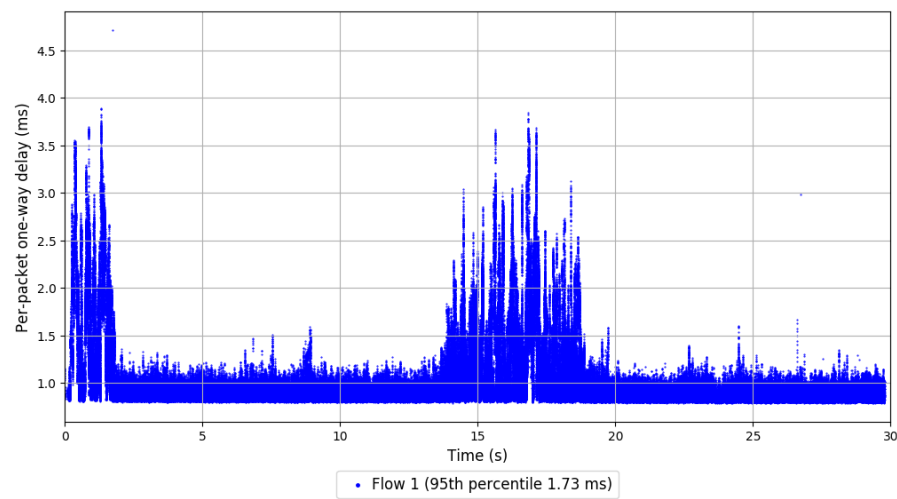
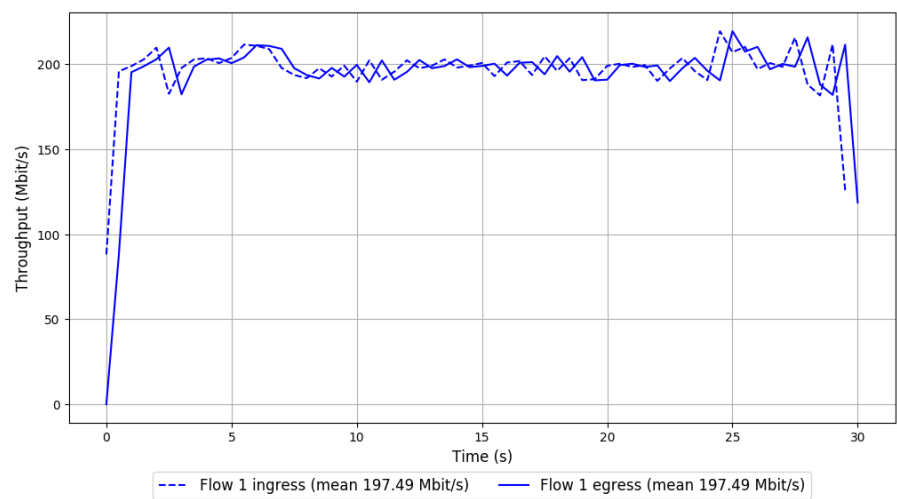
-- Flow 1:

Average throughput: 197.49 Mbit/s

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

Loss rate: 0.07%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-19 02:20:00

End at: 2018-06-19 02:20:30

Local clock offset: 3.536 ms

Remote clock offset: 2.458 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.08%

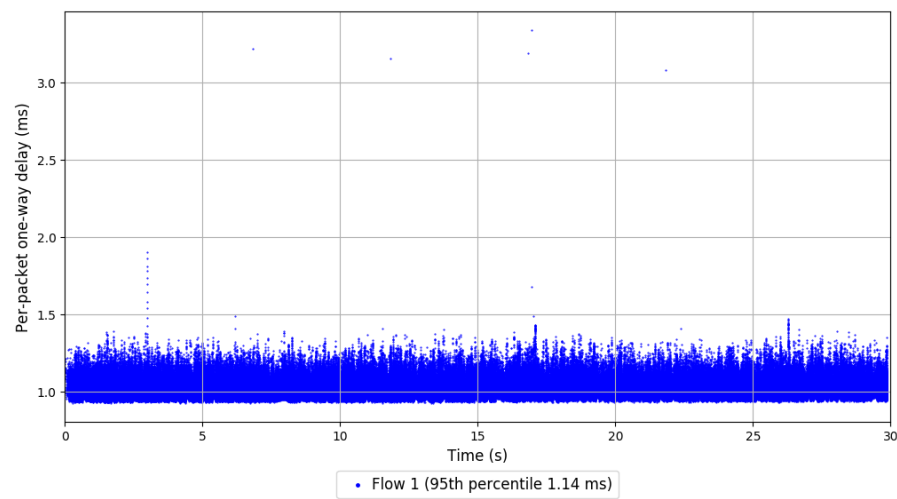
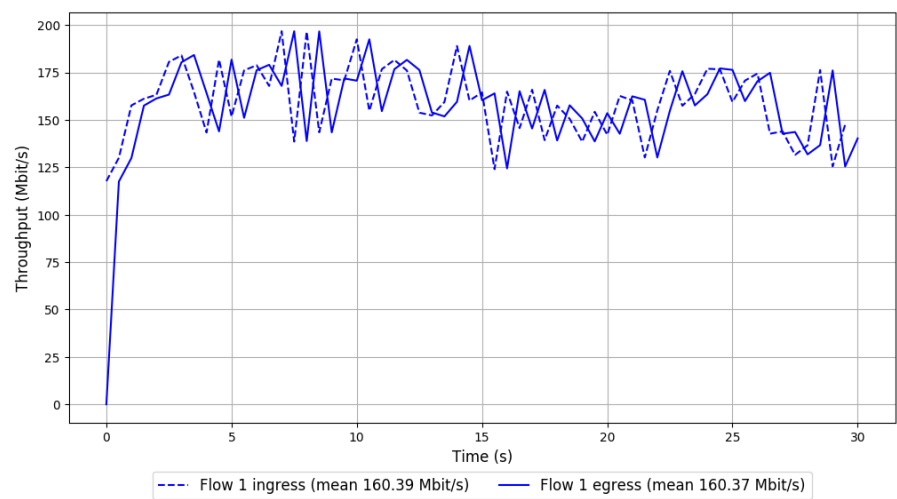
-- Flow 1:

Average throughput: 160.37 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.08%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-19 02:44:11

End at: 2018-06-19 02:44:41

Local clock offset: 3.577 ms

Remote clock offset: 3.042 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.60 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.09%

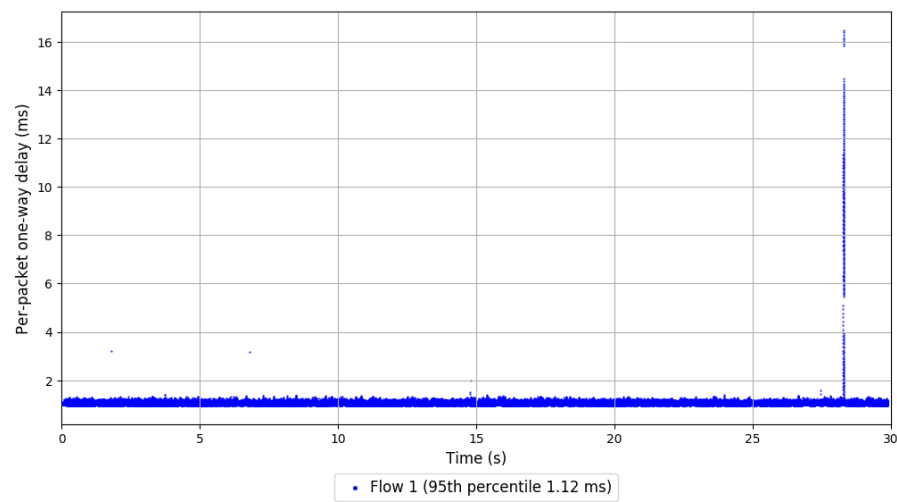
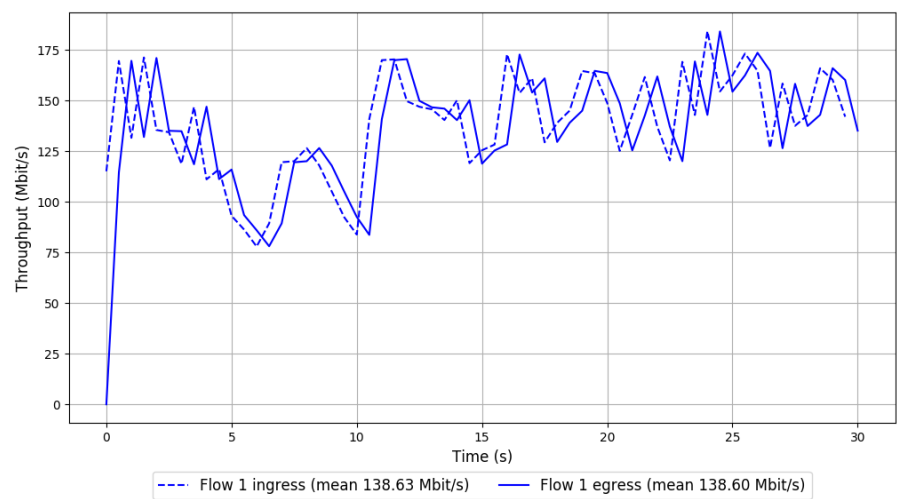
-- Flow 1:

Average throughput: 138.60 Mbit/s

95th percentile per-packet one-way delay: 1.120 ms

Loss rate: 0.09%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-19 03:08:29

End at: 2018-06-19 03:08:59

Local clock offset: 3.483 ms

Remote clock offset: 3.118 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.40 Mbit/s

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

Loss rate: 0.07%

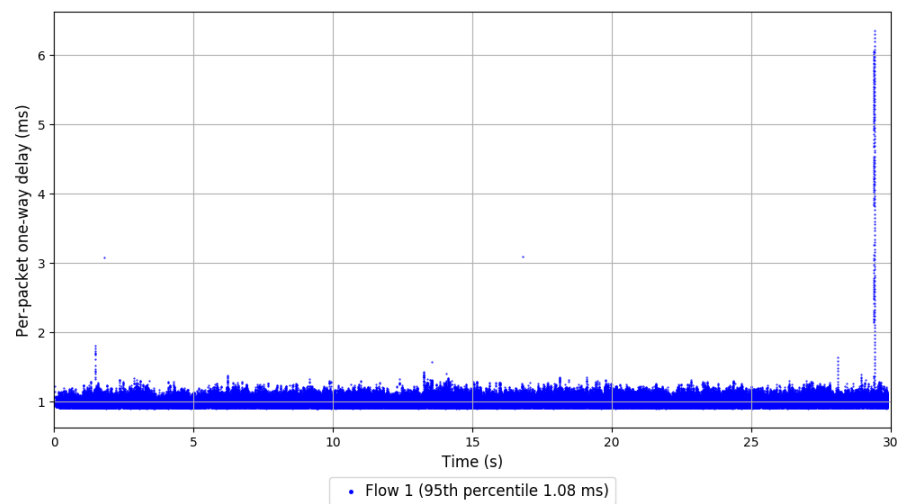
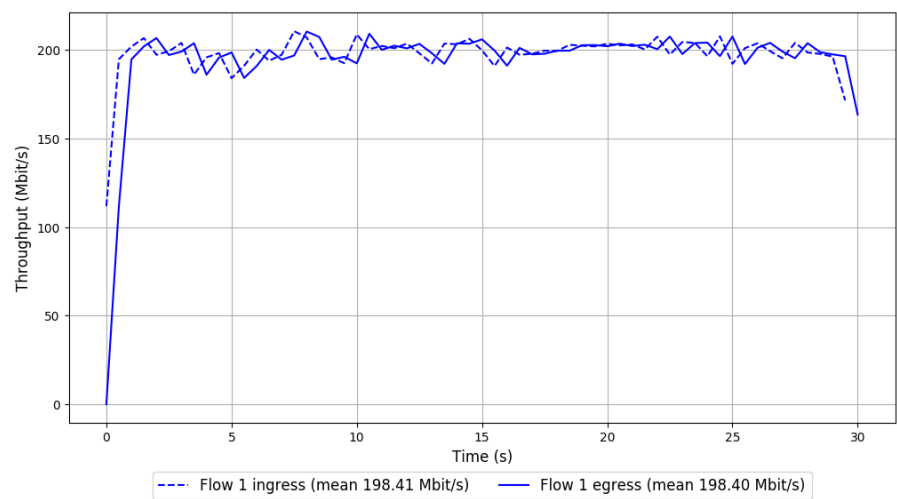
-- Flow 1:

Average throughput: 198.40 Mbit/s

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

Loss rate: 0.07%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 03:32:42

End at: 2018-06-19 03:33:12

Local clock offset: 3.347 ms

Remote clock offset: 3.355 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.72 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.07%

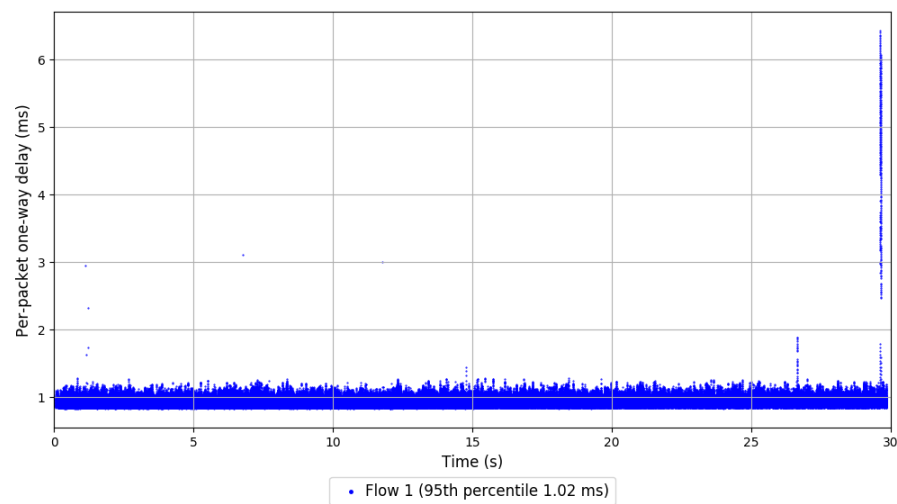
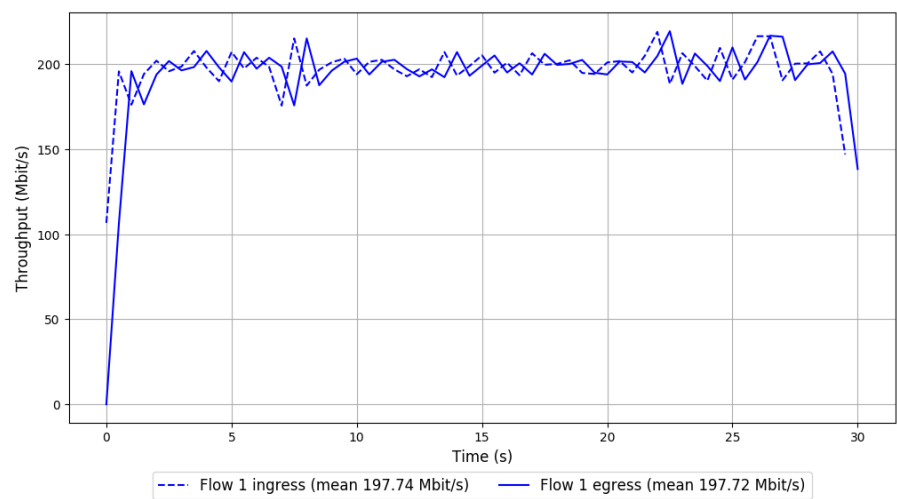
-- Flow 1:

Average throughput: 197.72 Mbit/s

95th percentile per-packet one-way delay: 1.022 ms

Loss rate: 0.07%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 03:56:56

End at: 2018-06-19 03:57:26

Local clock offset: 3.683 ms

Remote clock offset: 3.632 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.31 Mbit/s

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

Loss rate: 0.07%

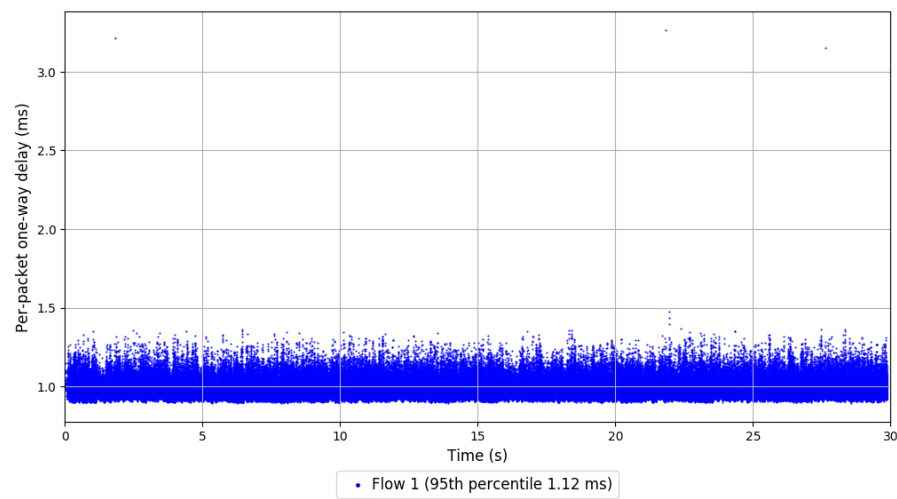
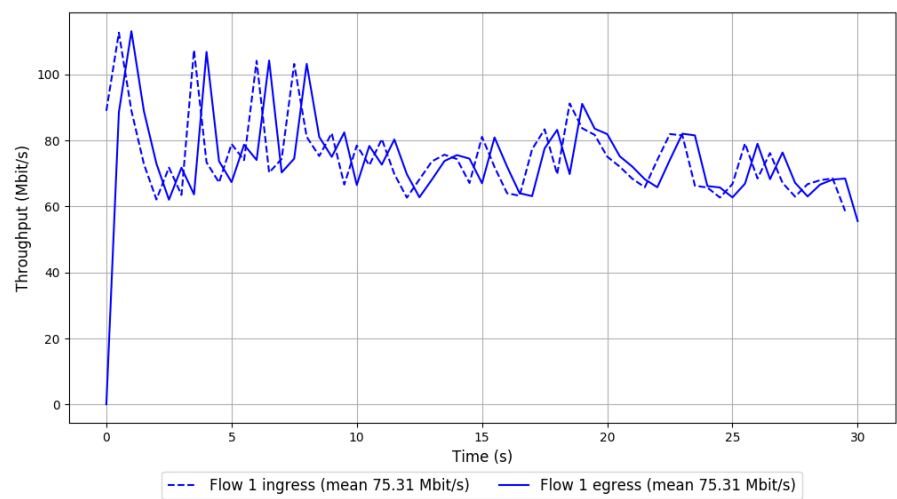
-- Flow 1:

Average throughput: 75.31 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of Indigo — Data Link

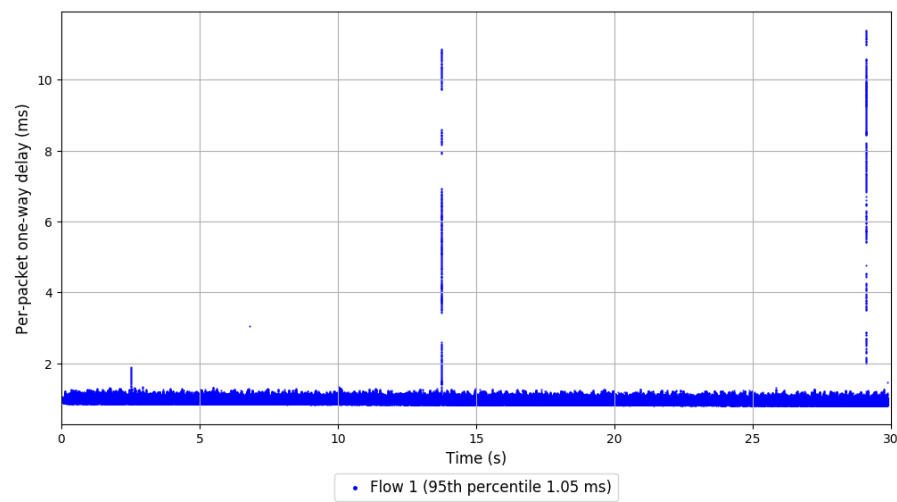
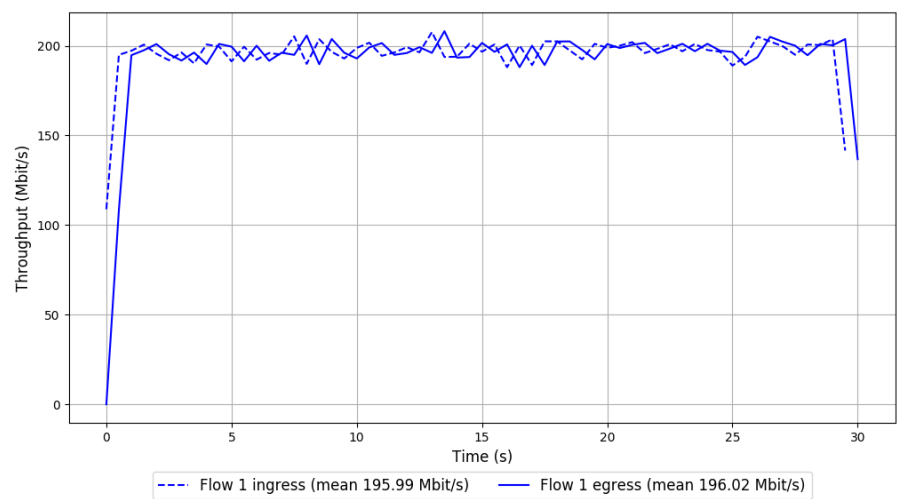


Run 7: Statistics of Indigo

Start at: 2018-06-19 04:21:10
End at: 2018-06-19 04:21:40
Local clock offset: 3.759 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-06-19 06:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.02 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 196.02 Mbit/s
95th percentile per-packet one-way delay: 1.053 ms
Loss rate: 0.04%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 04:45:27

End at: 2018-06-19 04:45:57

Local clock offset: 3.628 ms

Remote clock offset: 0.337 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.44 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.04%

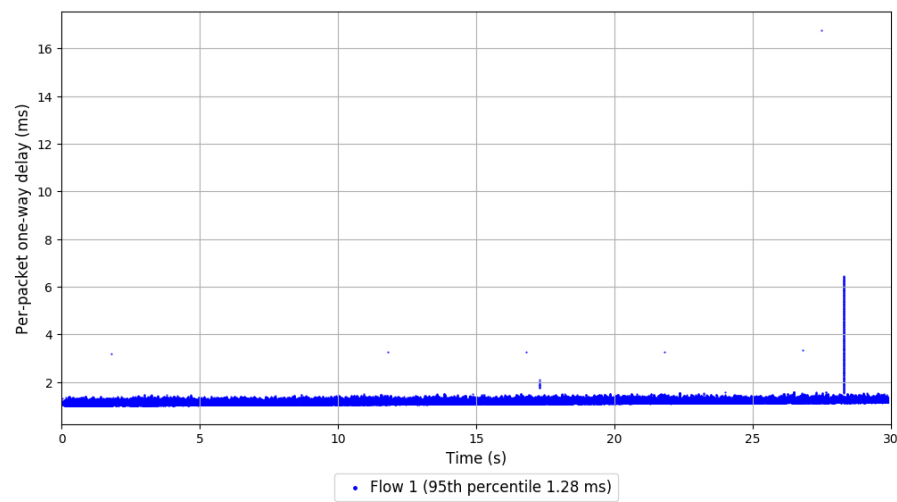
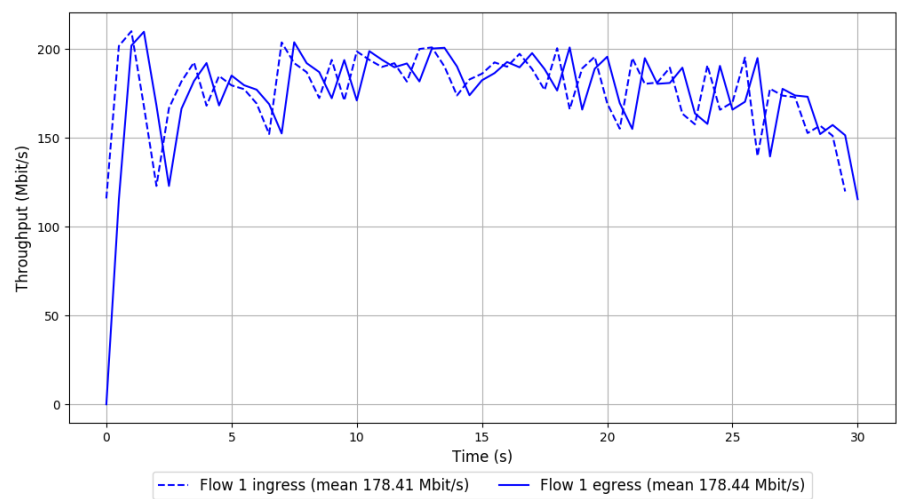
-- Flow 1:

Average throughput: 178.44 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.04%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-19 05:09:45

End at: 2018-06-19 05:10:15

Local clock offset: 3.725 ms

Remote clock offset: 2.966 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.82 Mbit/s

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

Loss rate: 0.06%

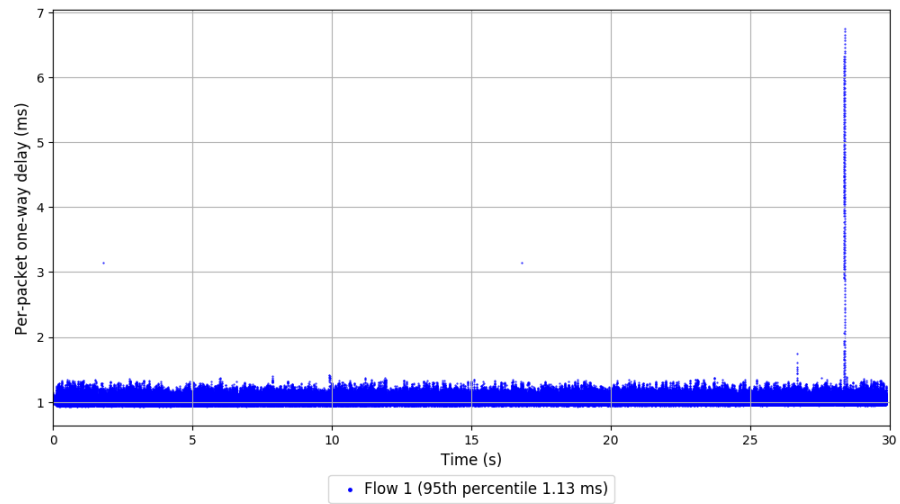
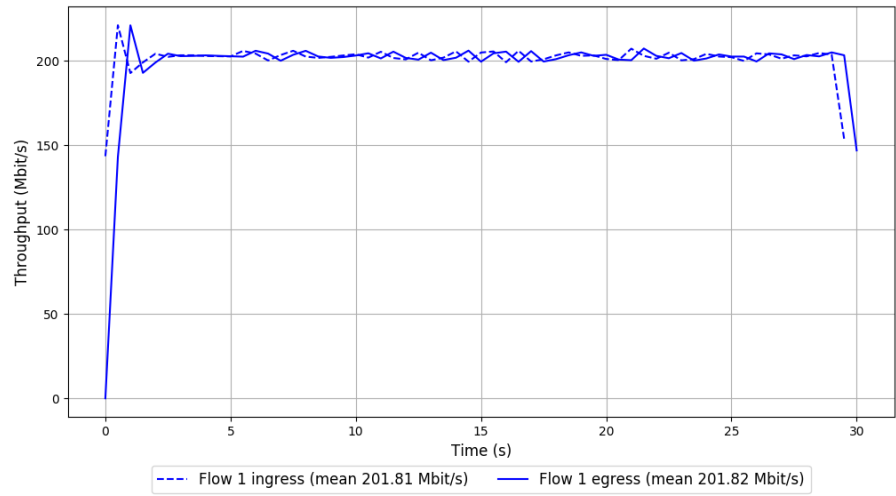
-- Flow 1:

Average throughput: 201.82 Mbit/s

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

Loss rate: 0.06%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 05:34:05

End at: 2018-06-19 05:34:35

Local clock offset: 3.632 ms

Remote clock offset: -0.759 ms

Below is generated by plot.py at 2018-06-19 06:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.94 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.06%

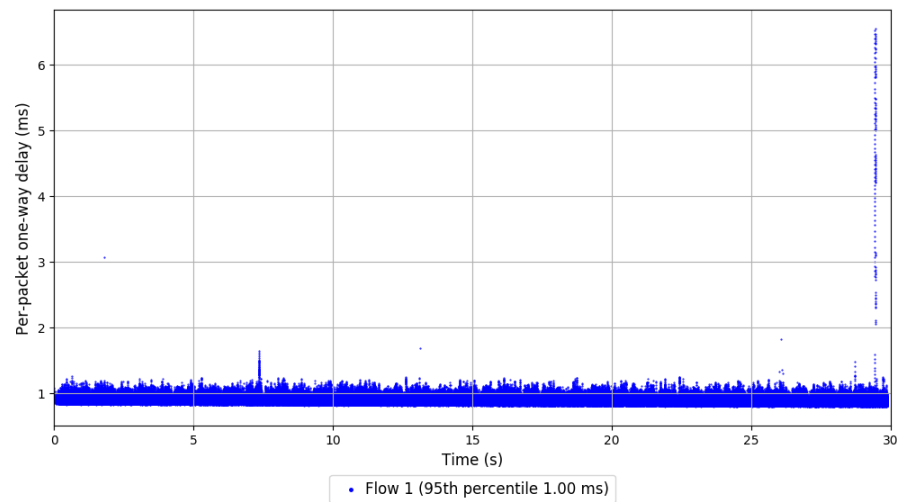
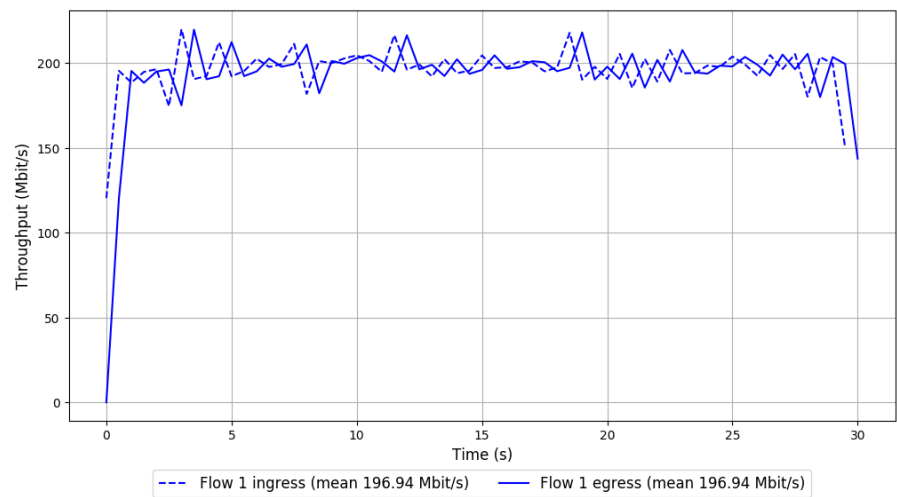
-- Flow 1:

Average throughput: 196.94 Mbit/s

95th percentile per-packet one-way delay: 0.996 ms

Loss rate: 0.06%

Run 10: Report of Indigo — Data Link

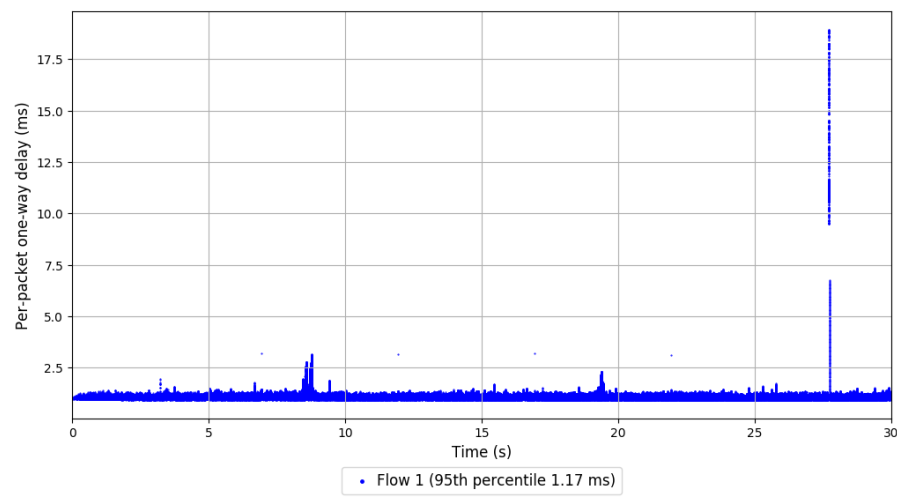
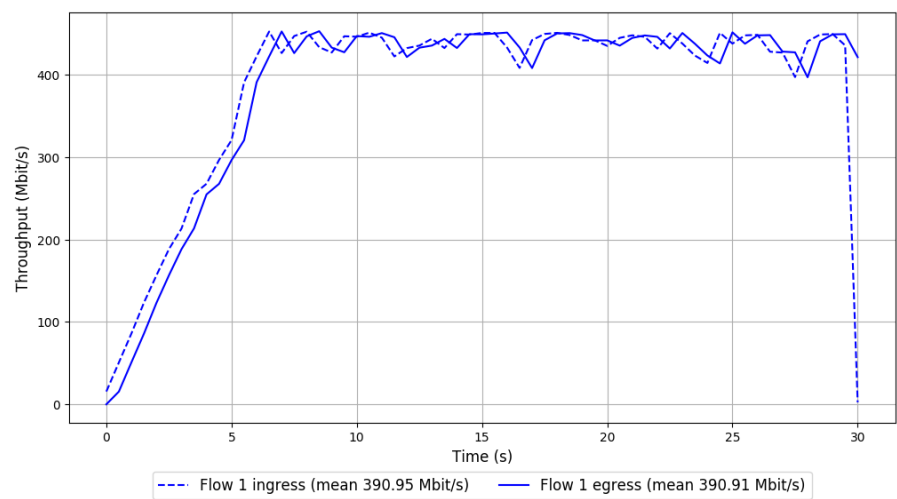


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 01:57:05
End at: 2018-06-19 01:57:35
Local clock offset: 3.688 ms
Remote clock offset: 2.504 ms

# Below is generated by plot.py at 2018-06-19 06:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 390.91 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 390.91 Mbit/s
95th percentile per-packet one-way delay: 1.169 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-06-19 02:21:24

End at: 2018-06-19 02:21:54

Local clock offset: 3.54 ms

Remote clock offset: 2.473 ms

Below is generated by plot.py at 2018-06-19 06:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.15 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.08%

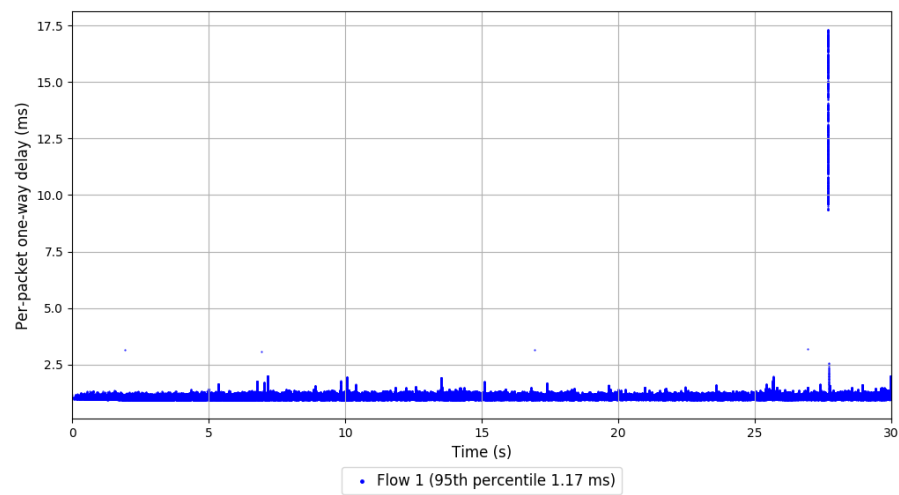
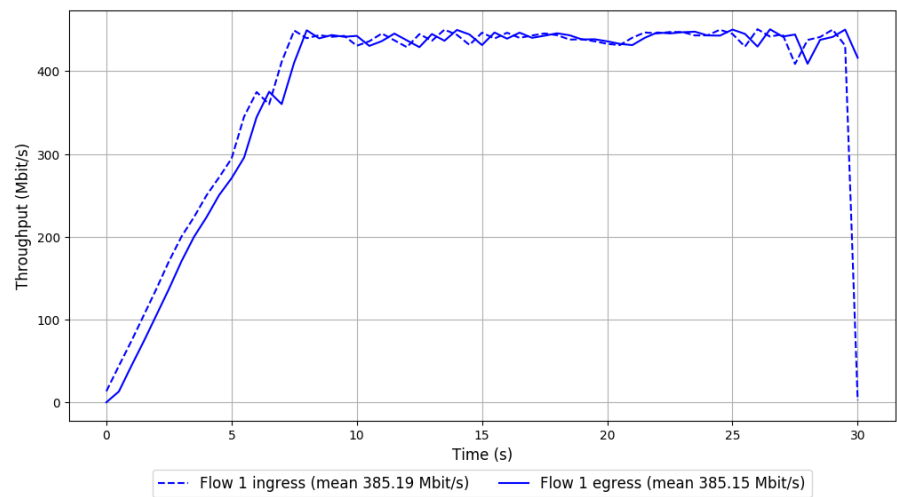
-- Flow 1:

Average throughput: 385.15 Mbit/s

95th percentile per-packet one-way delay: 1.166 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 02:45:34

End at: 2018-06-19 02:46:04

Local clock offset: 3.571 ms

Remote clock offset: 3.053 ms

Below is generated by plot.py at 2018-06-19 06:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.26 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.07%

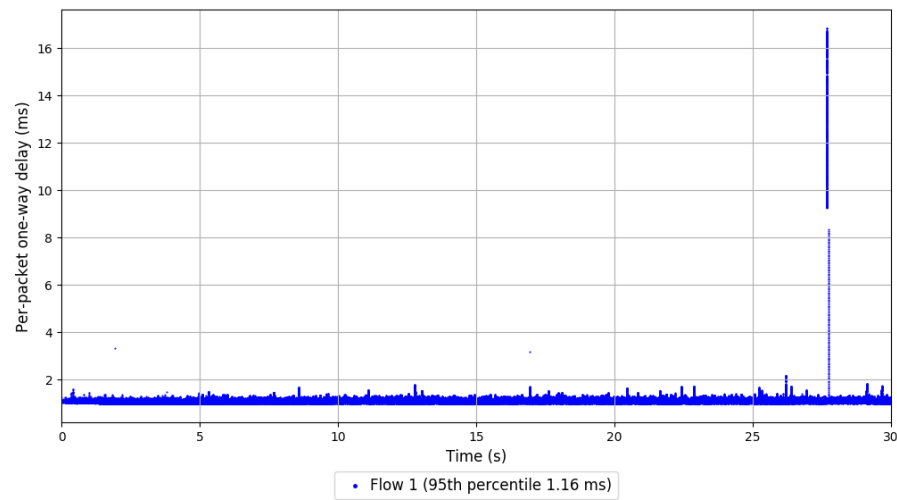
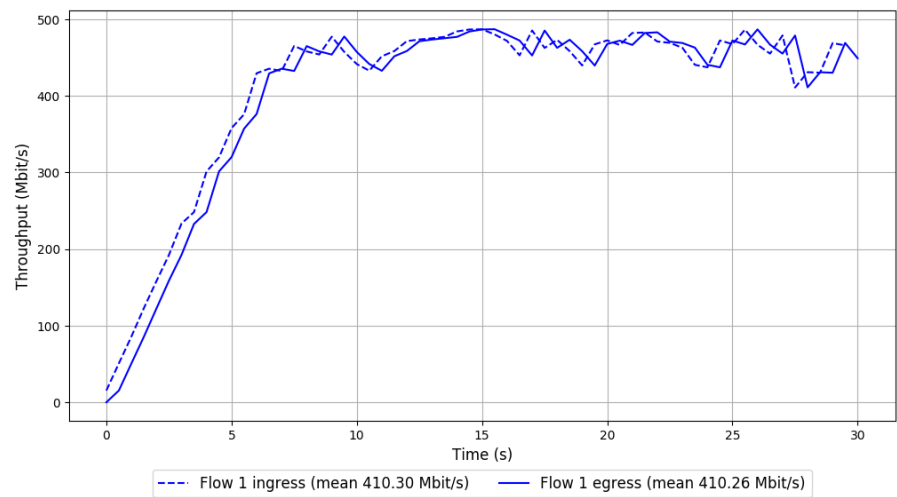
-- Flow 1:

Average throughput: 410.26 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-06-19 03:09:54

End at: 2018-06-19 03:10:25

Local clock offset: 3.493 ms

Remote clock offset: 3.036 ms

Below is generated by plot.py at 2018-06-19 06:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 405.04 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.05%

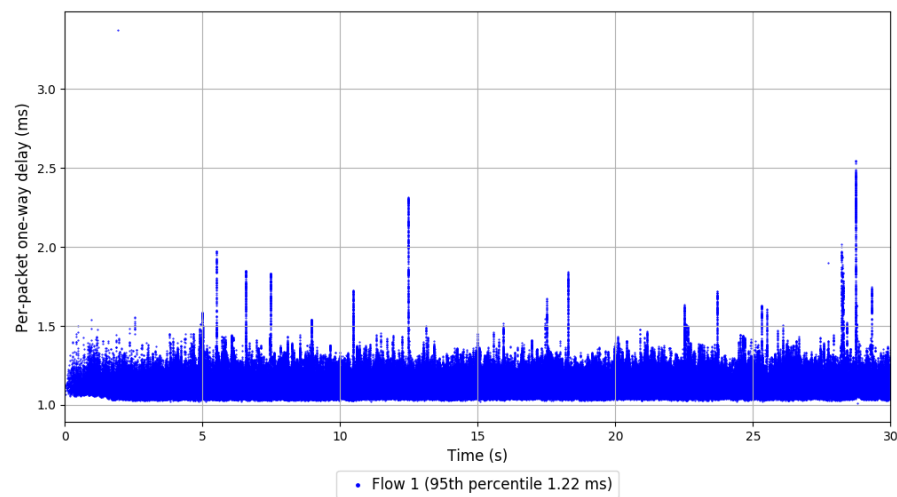
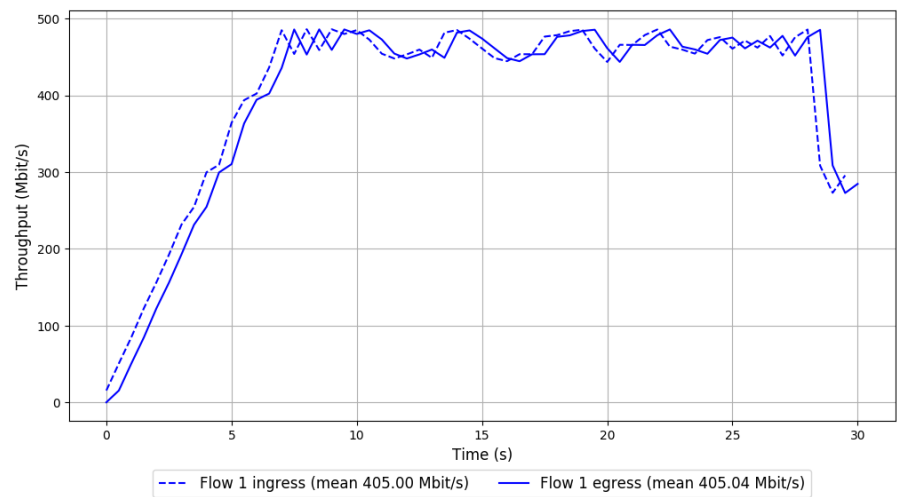
-- Flow 1:

Average throughput: 405.04 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-06-19 03:34:08

End at: 2018-06-19 03:34:38

Local clock offset: 3.369 ms

Remote clock offset: 3.299 ms

Below is generated by plot.py at 2018-06-19 06:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.27 Mbit/s

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

Loss rate: 0.07%

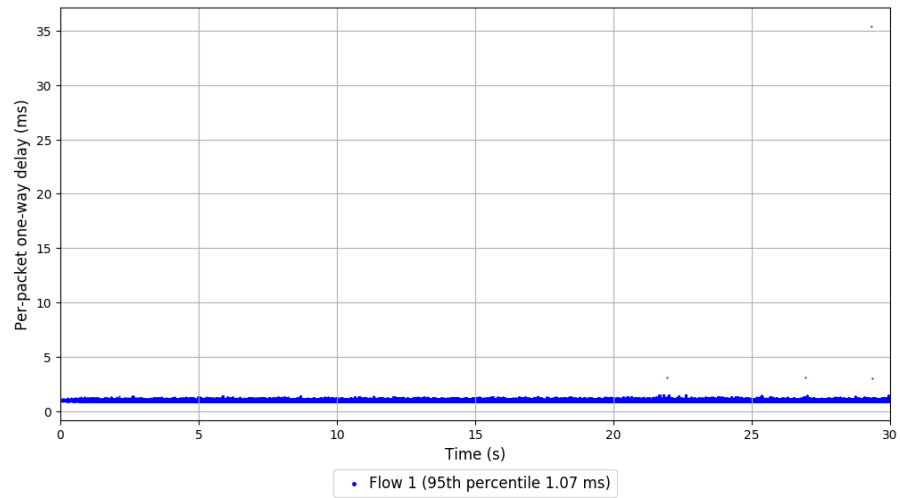
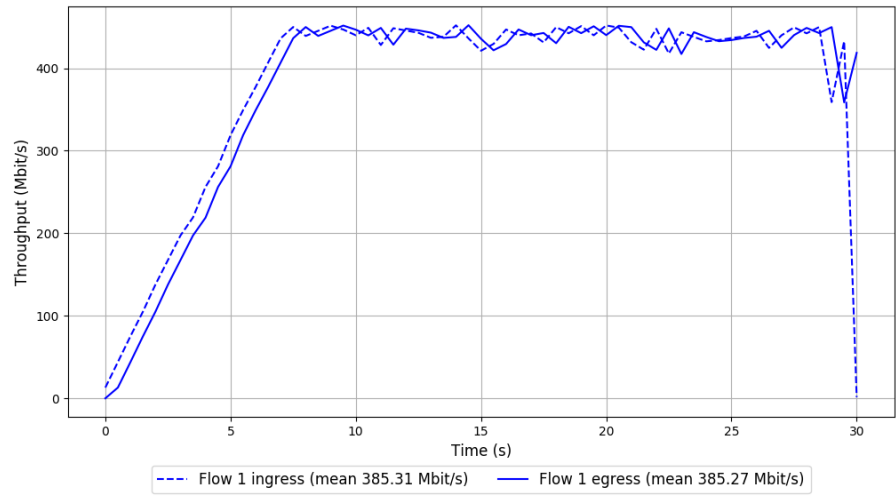
-- Flow 1:

Average throughput: 385.27 Mbit/s

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

Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 03:58:16

End at: 2018-06-19 03:58:46

Local clock offset: 3.781 ms

Remote clock offset: 3.674 ms

Below is generated by plot.py at 2018-06-19 06:49:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.46 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.08%

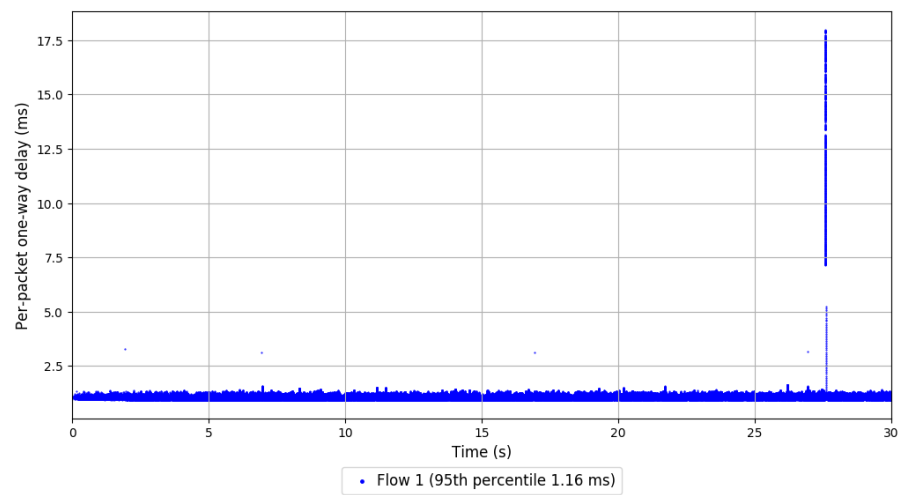
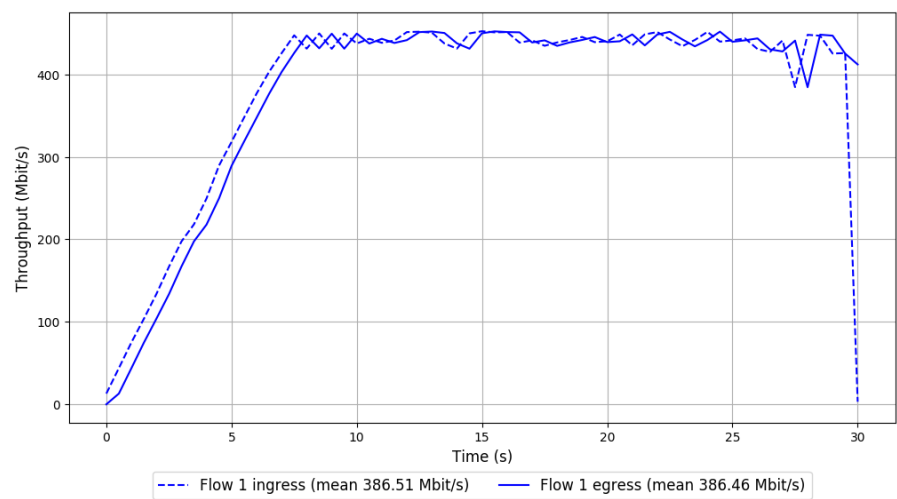
-- Flow 1:

Average throughput: 386.46 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link

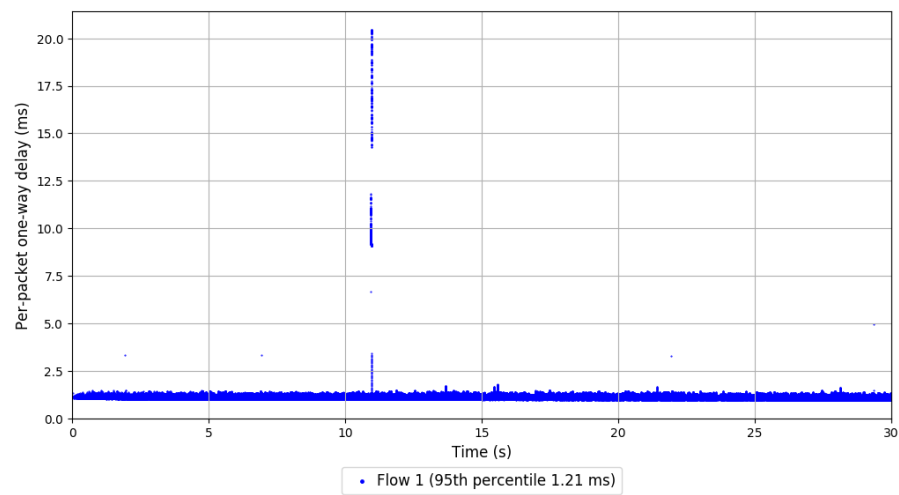
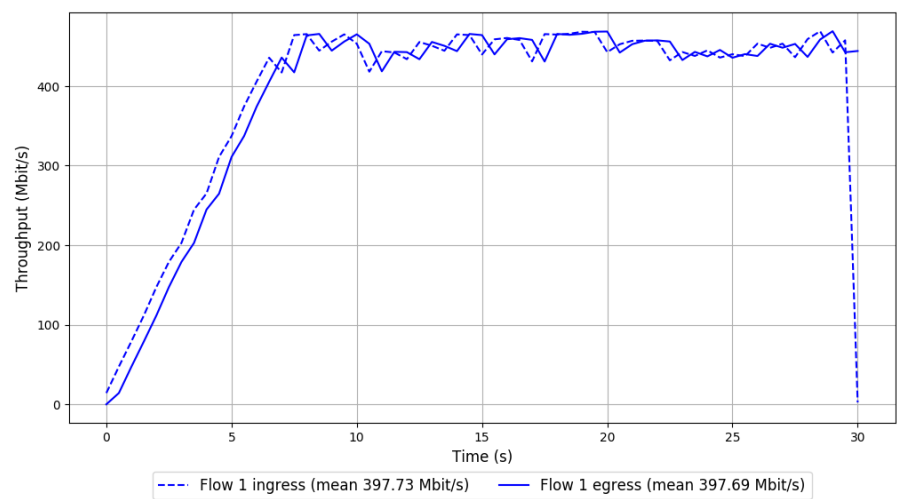


Run 7: Statistics of LEDBAT

Start at: 2018-06-19 04:22:36
End at: 2018-06-19 04:23:06
Local clock offset: 3.759 ms
Remote clock offset: -0.519 ms

Below is generated by plot.py at 2018-06-19 06:51:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 397.69 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 397.69 Mbit/s
95th percentile per-packet one-way delay: 1.209 ms
Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-19 04:46:52

End at: 2018-06-19 04:47:22

Local clock offset: 3.604 ms

Remote clock offset: 0.84 ms

Below is generated by plot.py at 2018-06-19 06:51:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.02 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.07%

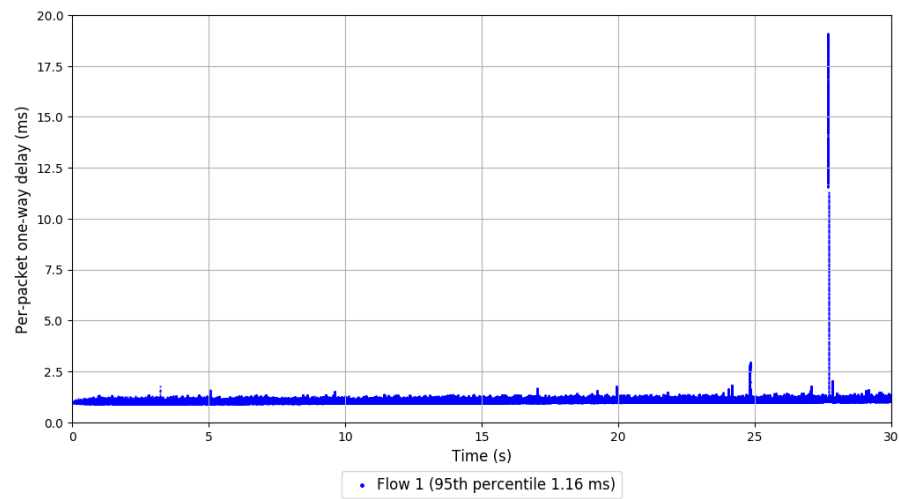
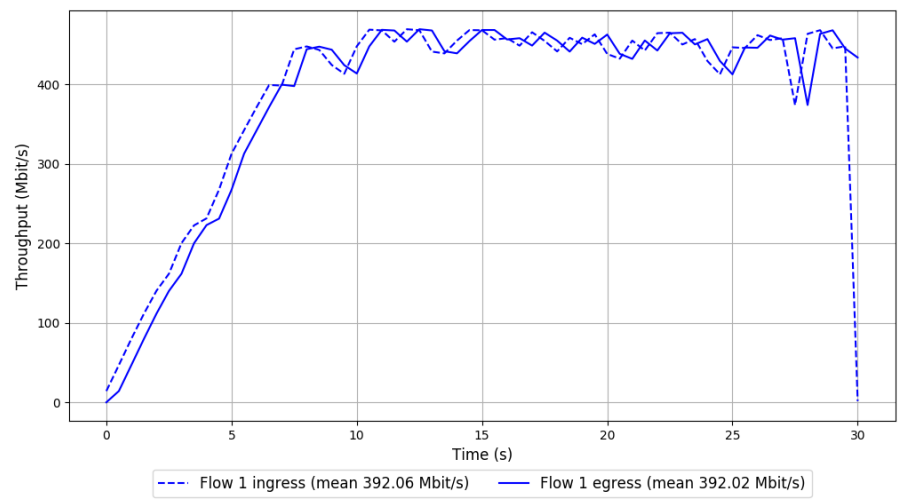
-- Flow 1:

Average throughput: 392.02 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.07%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-06-19 05:11:10

End at: 2018-06-19 05:11:40

Local clock offset: 3.614 ms

Remote clock offset: 2.923 ms

Below is generated by plot.py at 2018-06-19 06:51:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.38 Mbit/s

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

Loss rate: 0.08%

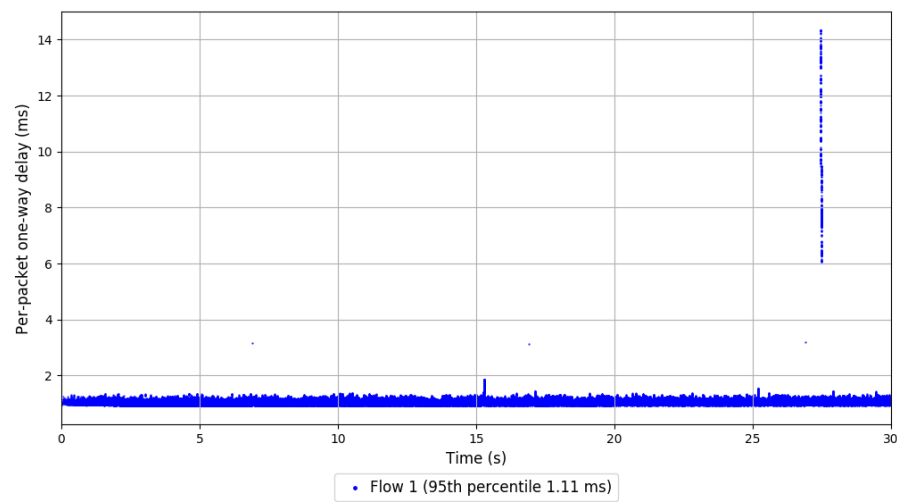
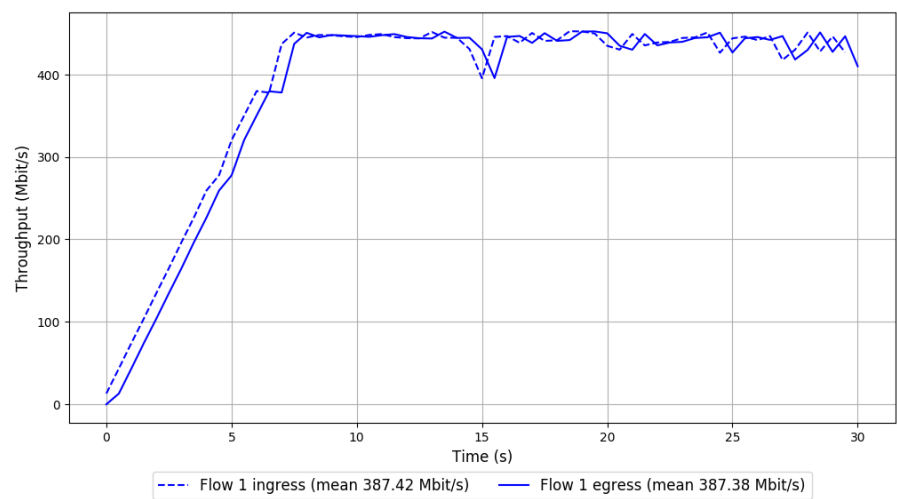
-- Flow 1:

Average throughput: 387.38 Mbit/s

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

Loss rate: 0.08%

Run 9: Report of LEDBAT — Data Link

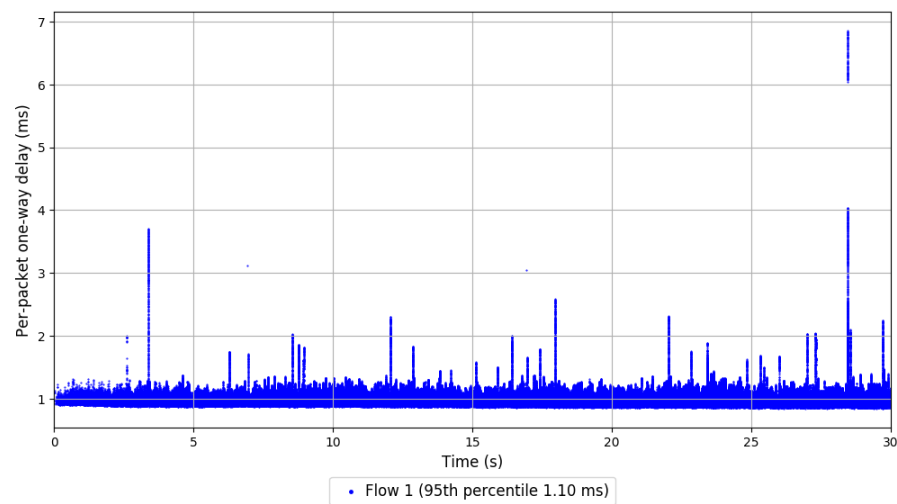
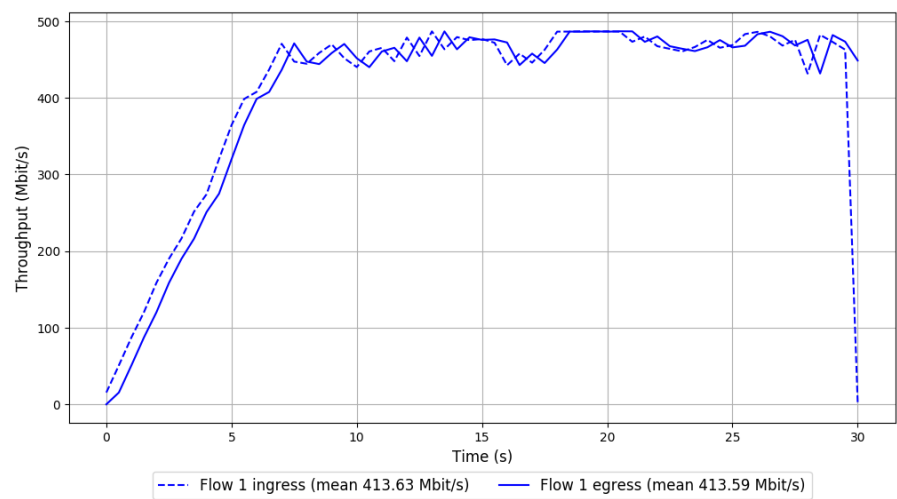


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 05:35:31
End at: 2018-06-19 05:36:01
Local clock offset: 3.613 ms
Remote clock offset: -0.914 ms

Below is generated by plot.py at 2018-06-19 06:51:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 413.59 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 413.59 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 01:46:29

End at: 2018-06-19 01:46:59

Local clock offset: 3.68 ms

Remote clock offset: 2.91 ms

Below is generated by plot.py at 2018-06-19 06:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 919.64 Mbit/s

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

Loss rate: 0.07%

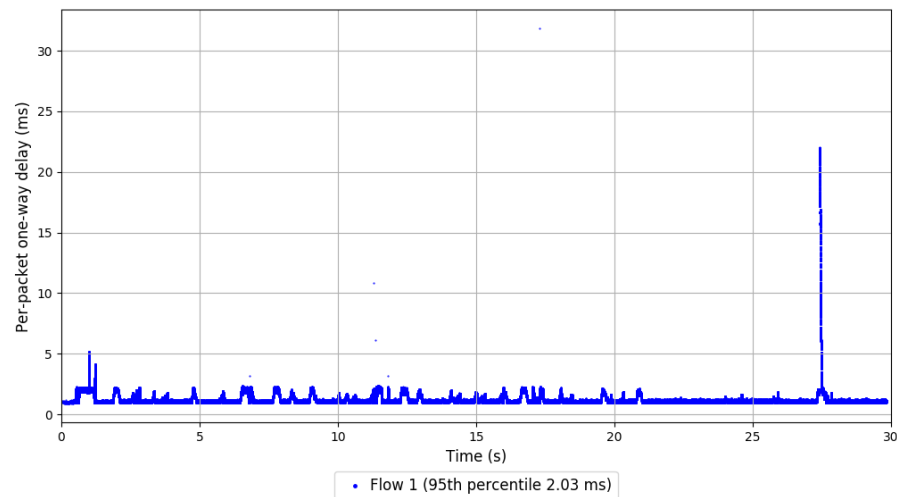
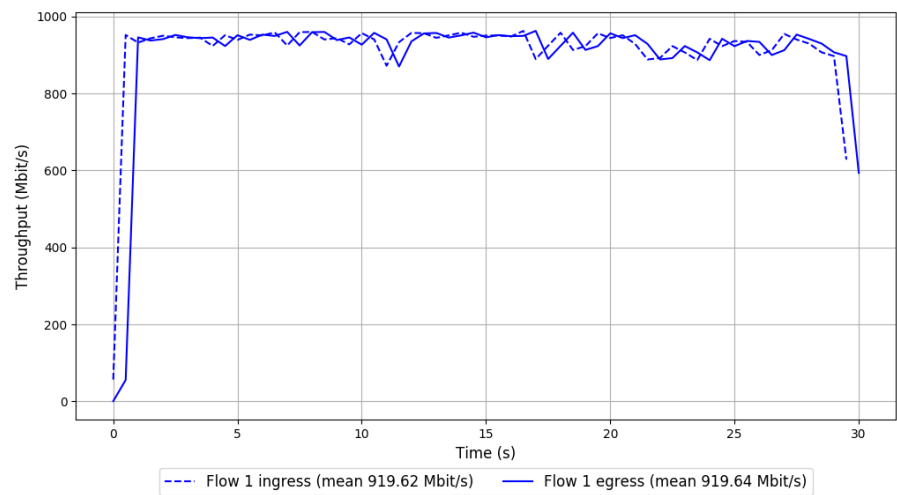
-- Flow 1:

Average throughput: 919.64 Mbit/s

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

Loss rate: 0.07%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 02:10:47

End at: 2018-06-19 02:11:17

Local clock offset: 3.651 ms

Remote clock offset: 2.383 ms

Below is generated by plot.py at 2018-06-19 06:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 920.61 Mbit/s

95th percentile per-packet one-way delay: 2.169 ms

Loss rate: 0.07%

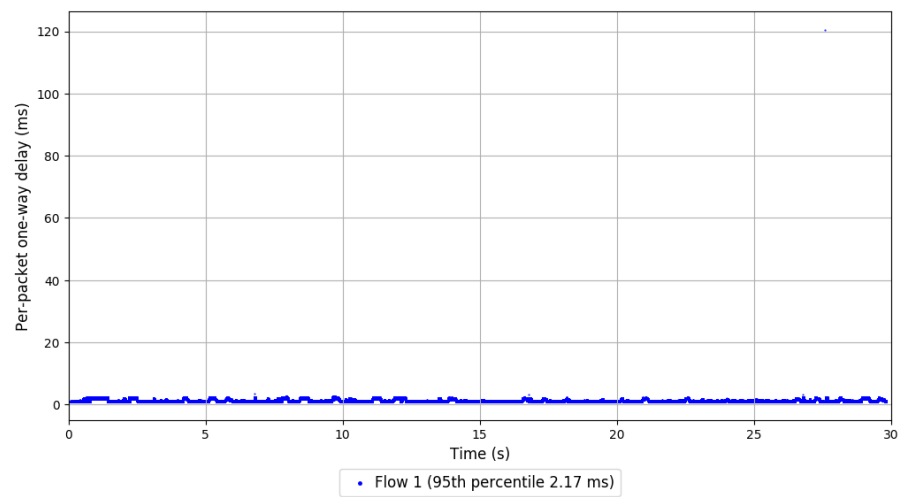
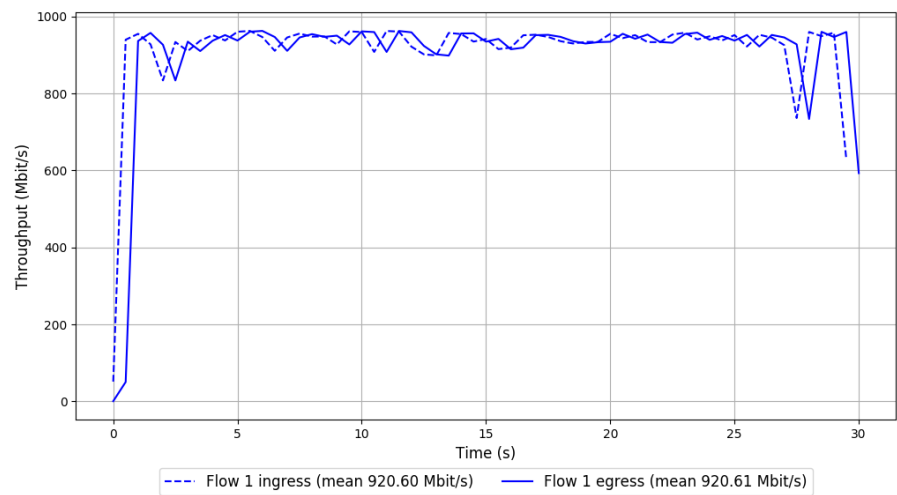
-- Flow 1:

Average throughput: 920.61 Mbit/s

95th percentile per-packet one-way delay: 2.169 ms

Loss rate: 0.07%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 02:34:59

End at: 2018-06-19 02:35:29

Local clock offset: 3.461 ms

Remote clock offset: 2.803 ms

Below is generated by plot.py at 2018-06-19 06:57:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 842.82 Mbit/s

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

Loss rate: 0.07%

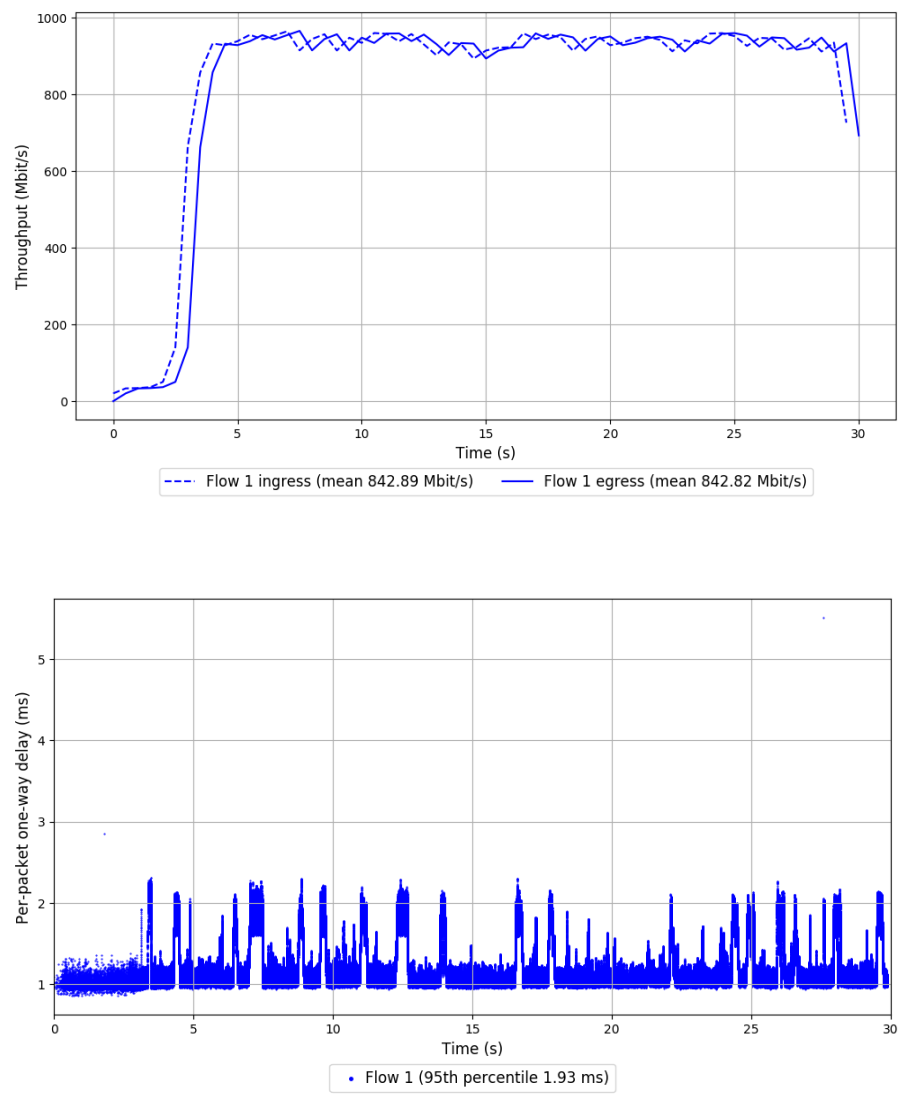
-- Flow 1:

Average throughput: 842.82 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 02:59:17

End at: 2018-06-19 02:59:47

Local clock offset: 3.404 ms

Remote clock offset: 3.244 ms

Below is generated by plot.py at 2018-06-19 07:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 915.53 Mbit/s

95th percentile per-packet one-way delay: 1.961 ms

Loss rate: 0.06%

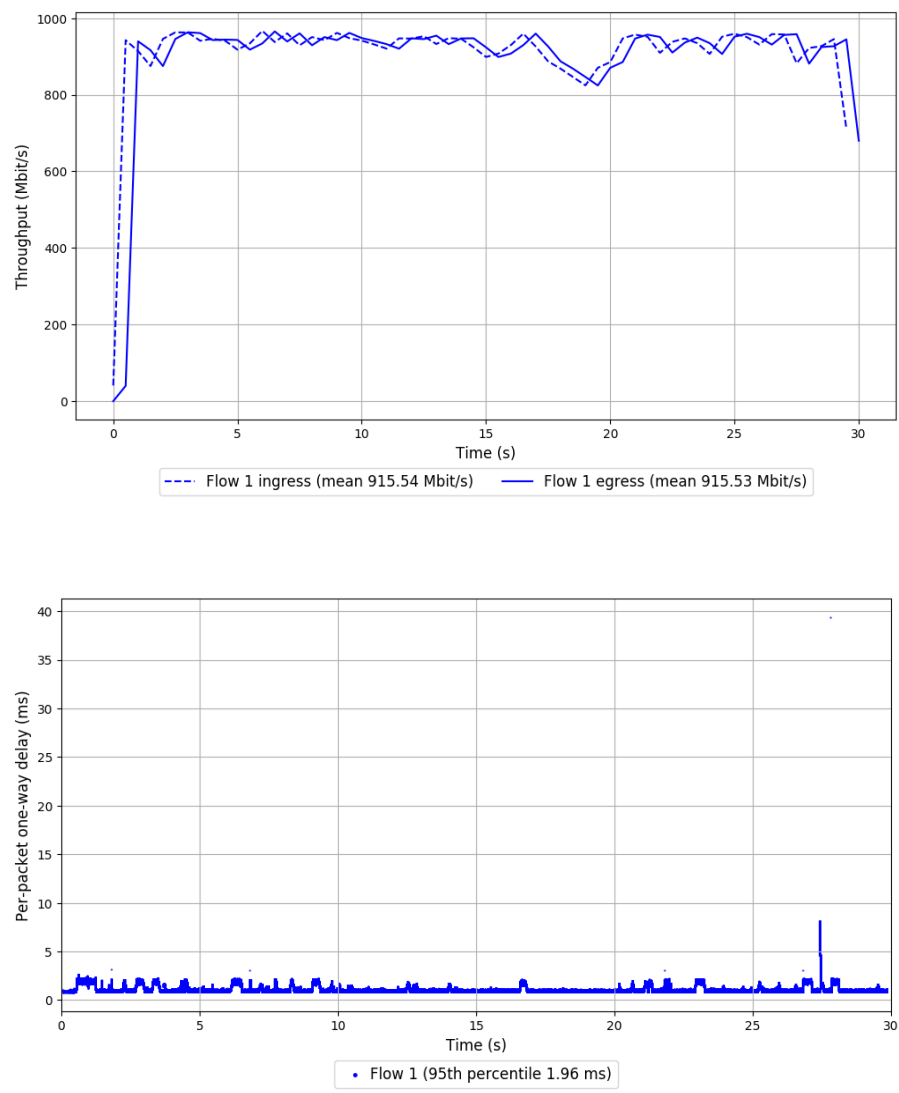
-- Flow 1:

Average throughput: 915.53 Mbit/s

95th percentile per-packet one-way delay: 1.961 ms

Loss rate: 0.06%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 03:23:31

End at: 2018-06-19 03:24:01

Local clock offset: 3.46 ms

Remote clock offset: 3.212 ms

Below is generated by plot.py at 2018-06-19 07:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.57 Mbit/s

95th percentile per-packet one-way delay: 2.025 ms

Loss rate: 0.07%

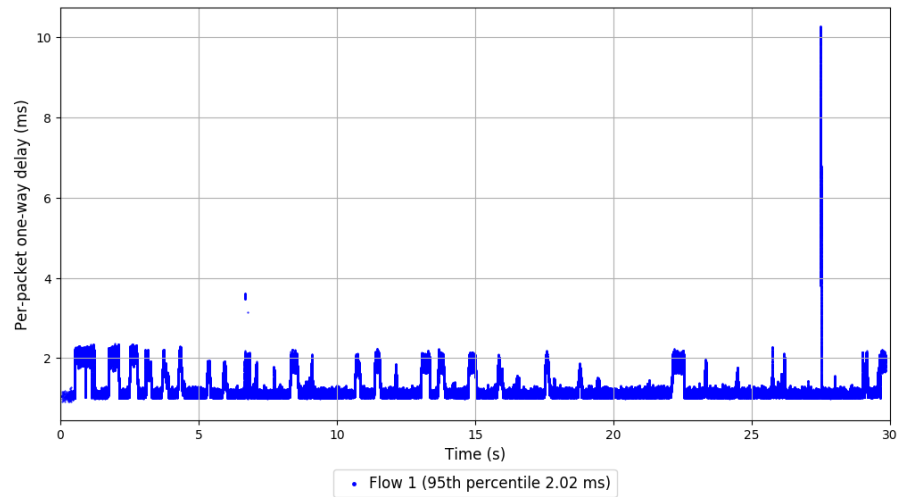
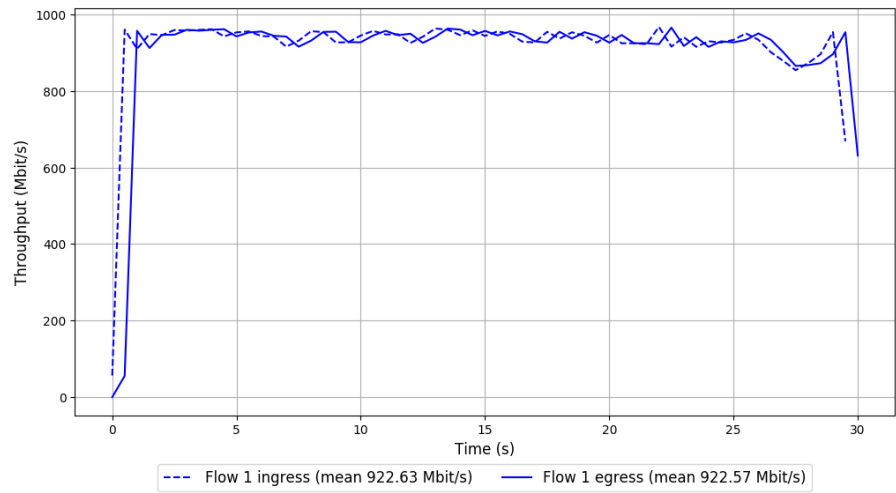
-- Flow 1:

Average throughput: 922.57 Mbit/s

95th percentile per-packet one-way delay: 2.025 ms

Loss rate: 0.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 03:47:46

End at: 2018-06-19 03:48:16

Local clock offset: 3.643 ms

Remote clock offset: 3.528 ms

Below is generated by plot.py at 2018-06-19 07:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 909.11 Mbit/s

95th percentile per-packet one-way delay: 1.974 ms

Loss rate: 0.07%

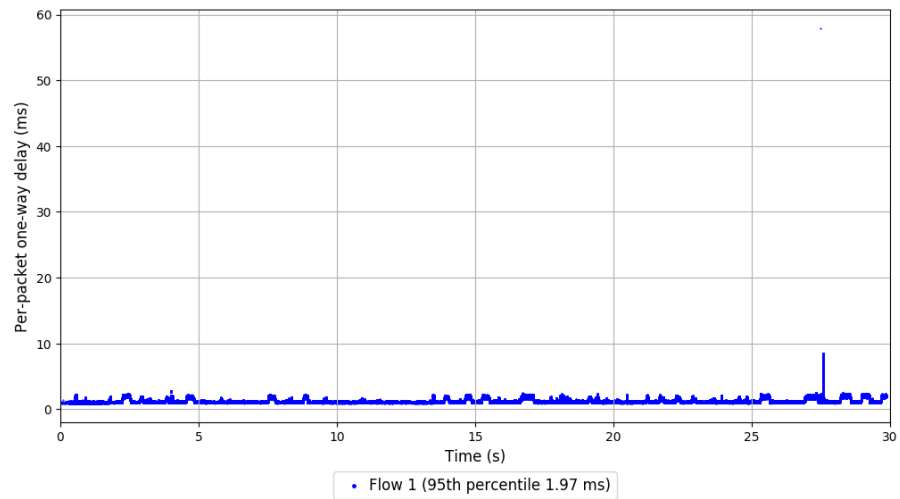
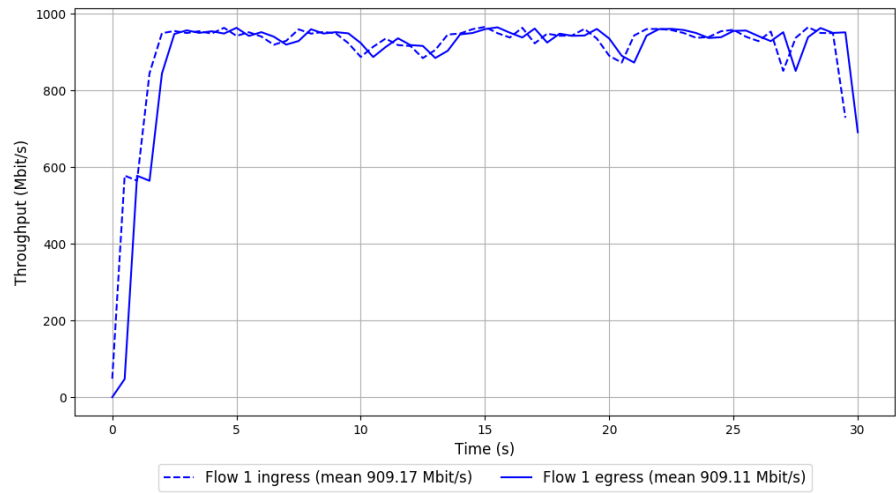
-- Flow 1:

Average throughput: 909.11 Mbit/s

95th percentile per-packet one-way delay: 1.974 ms

Loss rate: 0.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 04:11:58

End at: 2018-06-19 04:12:28

Local clock offset: 3.777 ms

Remote clock offset: 1.397 ms

Below is generated by plot.py at 2018-06-19 07:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.62 Mbit/s

95th percentile per-packet one-way delay: 2.007 ms

Loss rate: 0.07%

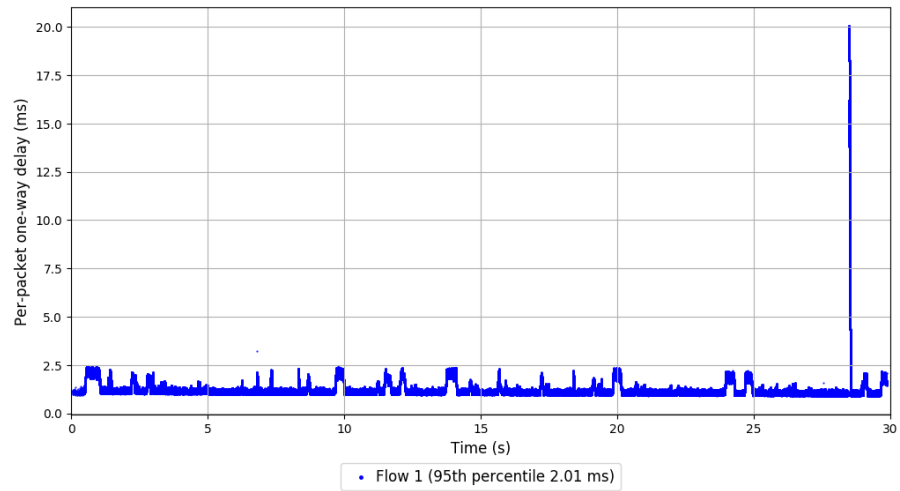
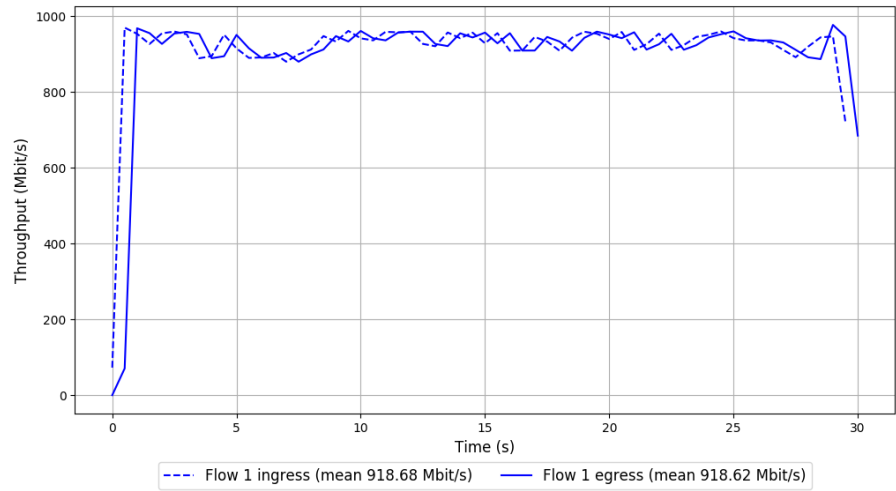
-- Flow 1:

Average throughput: 918.62 Mbit/s

95th percentile per-packet one-way delay: 2.007 ms

Loss rate: 0.07%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 04:36:13

End at: 2018-06-19 04:36:43

Local clock offset: 3.68 ms

Remote clock offset: -1.624 ms

Below is generated by plot.py at 2018-06-19 07:02:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.12 Mbit/s

95th percentile per-packet one-way delay: 1.956 ms

Loss rate: 0.07%

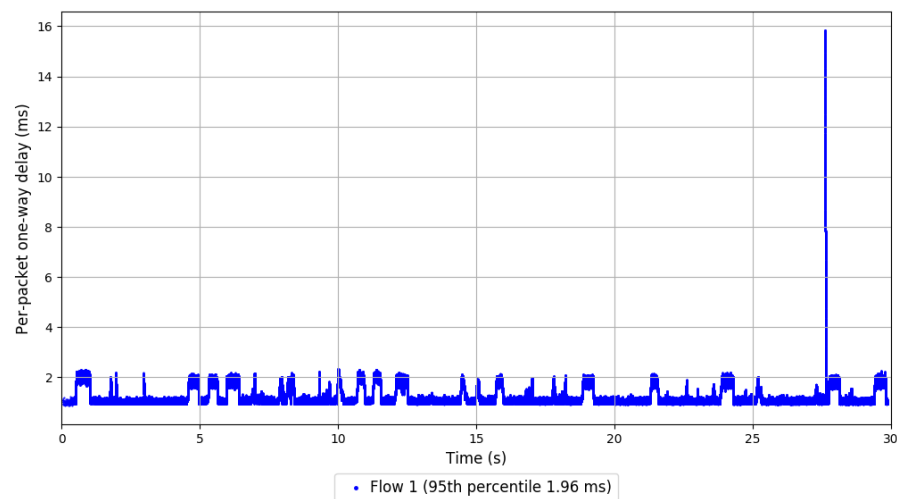
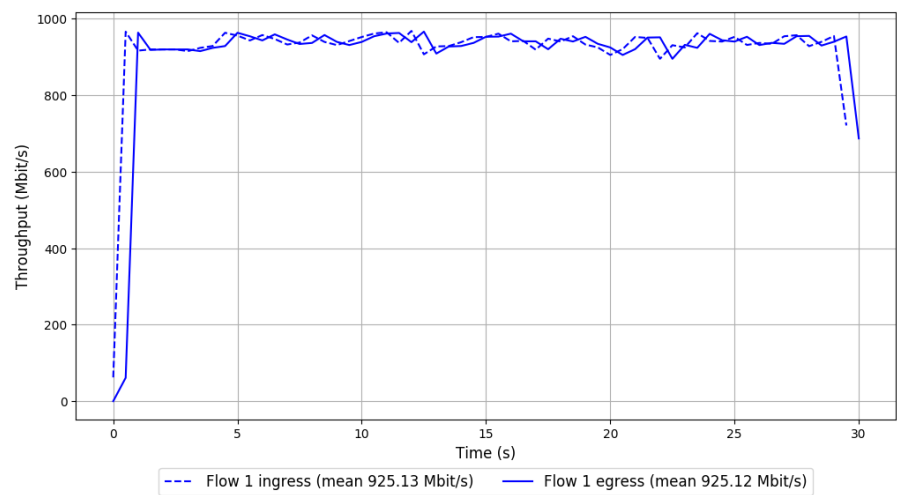
-- Flow 1:

Average throughput: 925.12 Mbit/s

95th percentile per-packet one-way delay: 1.956 ms

Loss rate: 0.07%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 05:00:33

End at: 2018-06-19 05:01:03

Local clock offset: 3.709 ms

Remote clock offset: 2.541 ms

Below is generated by plot.py at 2018-06-19 07:08:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 925.76 Mbit/s

95th percentile per-packet one-way delay: 2.172 ms

Loss rate: 0.06%

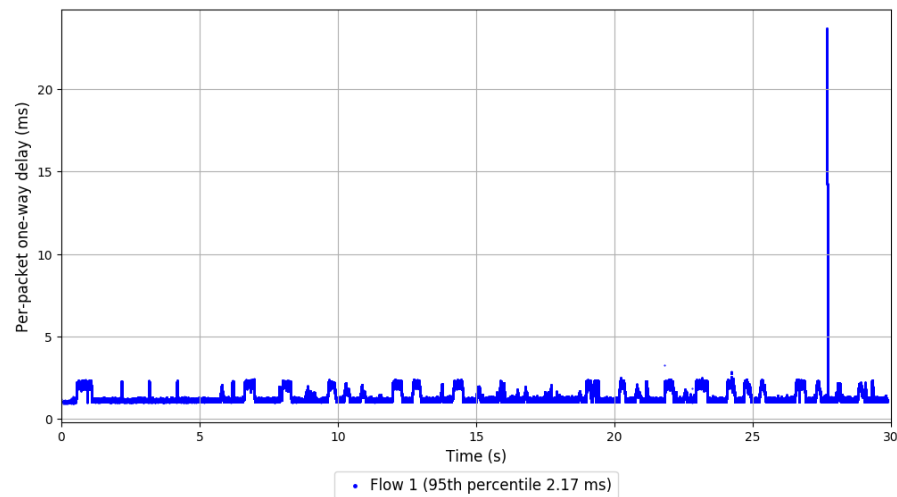
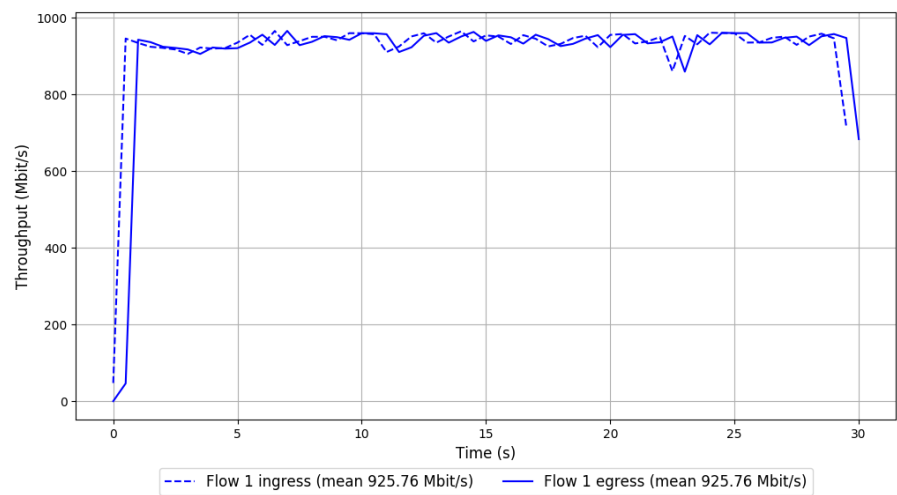
-- Flow 1:

Average throughput: 925.76 Mbit/s

95th percentile per-packet one-way delay: 2.172 ms

Loss rate: 0.06%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 05:24:51

End at: 2018-06-19 05:25:21

Local clock offset: 3.625 ms

Remote clock offset: 0.294 ms

Below is generated by plot.py at 2018-06-19 07:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 924.49 Mbit/s

95th percentile per-packet one-way delay: 1.867 ms

Loss rate: 0.07%

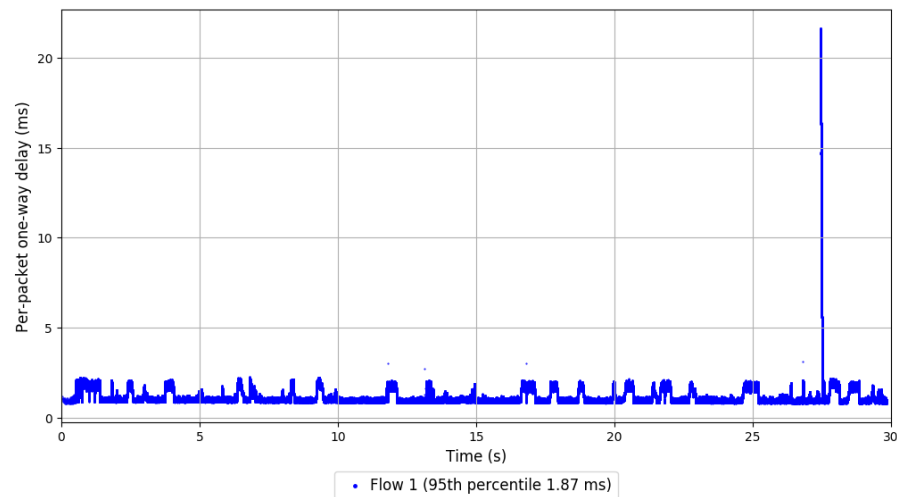
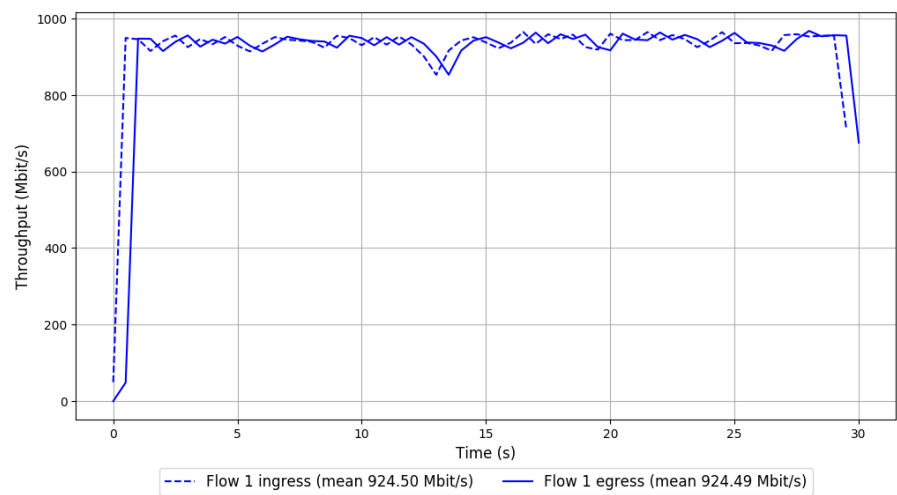
-- Flow 1:

Average throughput: 924.49 Mbit/s

95th percentile per-packet one-way delay: 1.867 ms

Loss rate: 0.07%

Run 10: Report of PCC-Allegro — Data Link

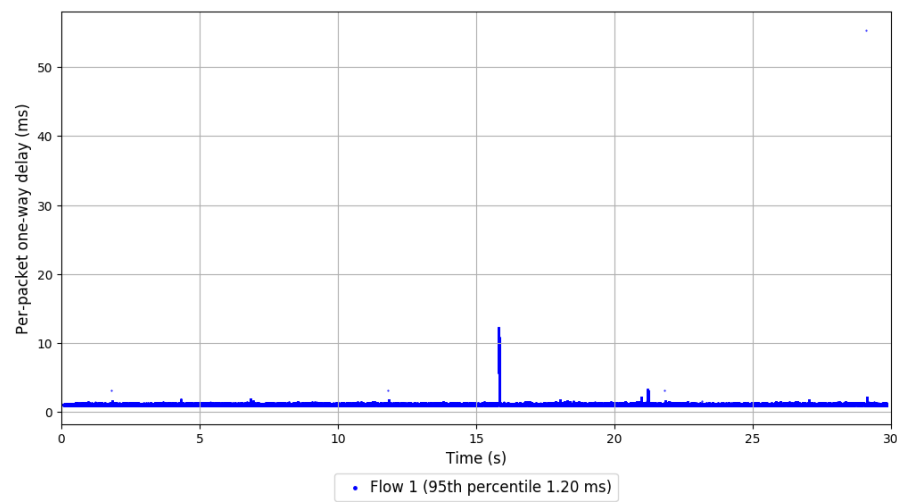
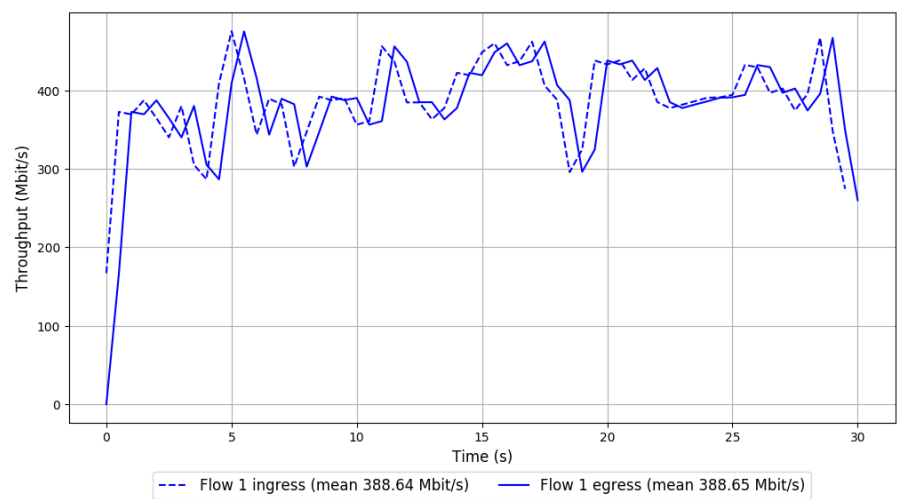


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 02:03:07
End at: 2018-06-19 02:03:37
Local clock offset: 3.686 ms
Remote clock offset: 2.413 ms

# Below is generated by plot.py at 2018-06-19 07:09:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 388.65 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 388.65 Mbit/s
95th percentile per-packet one-way delay: 1.200 ms
Loss rate: 0.07%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 02:27:25

End at: 2018-06-19 02:27:55

Local clock offset: 3.485 ms

Remote clock offset: 2.612 ms

Below is generated by plot.py at 2018-06-19 07:09:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.41 Mbit/s

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

Loss rate: 0.08%

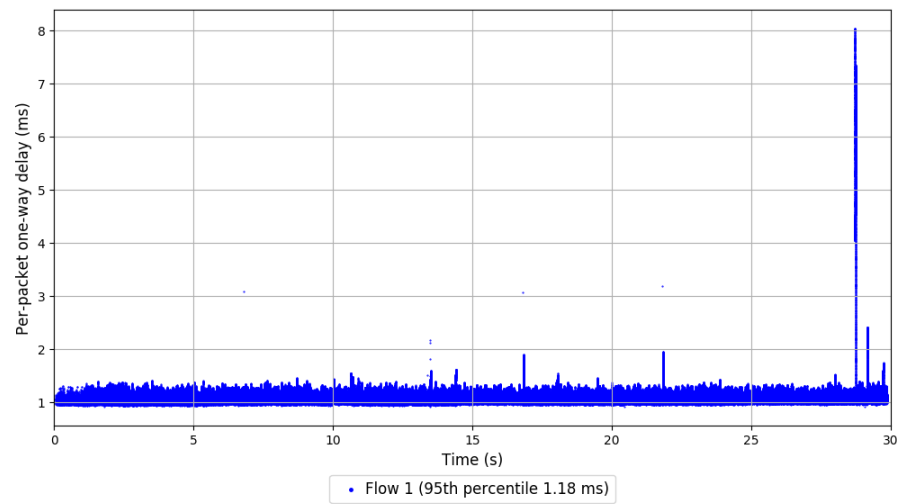
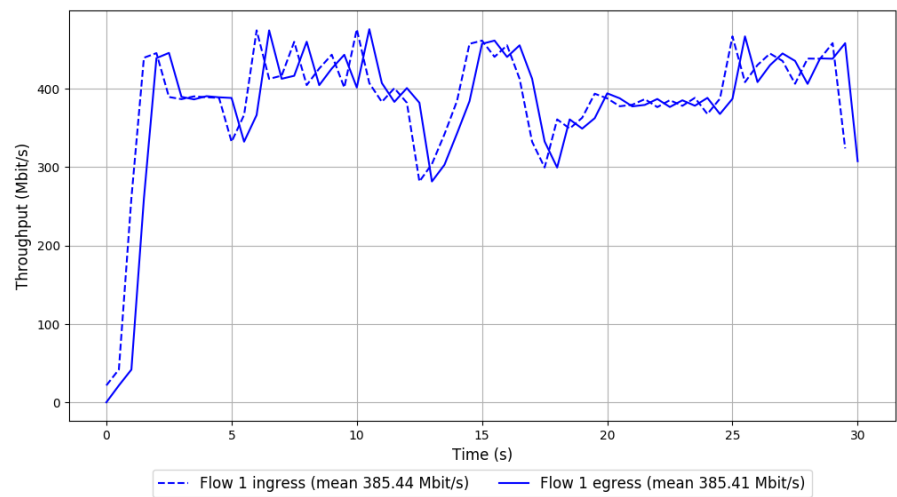
-- Flow 1:

Average throughput: 385.41 Mbit/s

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

Loss rate: 0.08%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 02:51:36

End at: 2018-06-19 02:52:06

Local clock offset: 3.562 ms

Remote clock offset: 3.13 ms

Below is generated by plot.py at 2018-06-19 07:09:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.20 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.06%

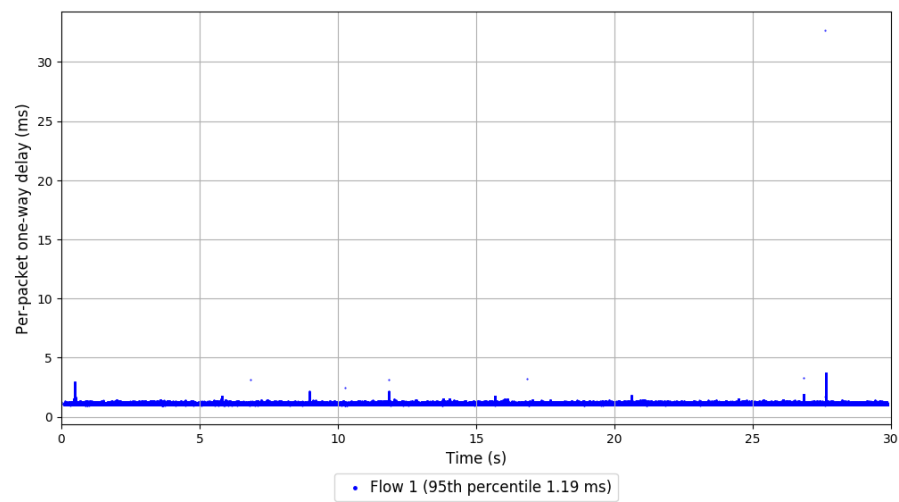
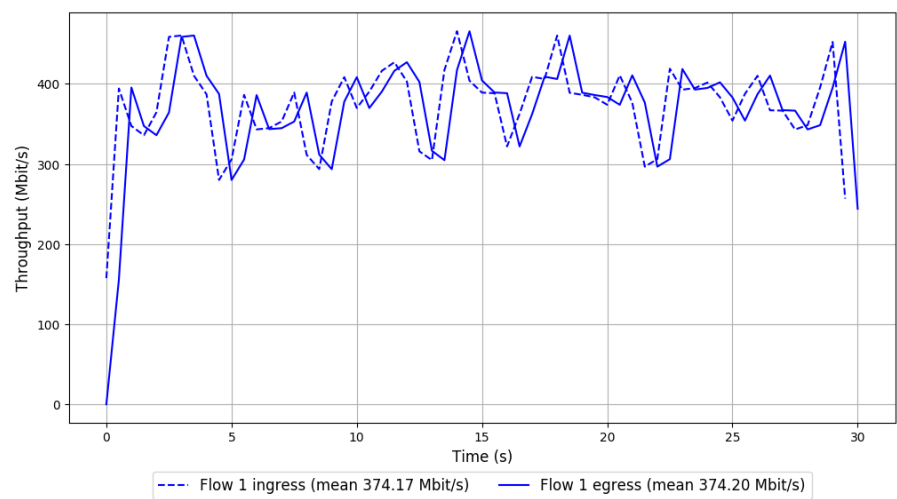
-- Flow 1:

Average throughput: 374.20 Mbit/s

95th percentile per-packet one-way delay: 1.189 ms

Loss rate: 0.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 03:15:57

End at: 2018-06-19 03:16:27

Local clock offset: 3.481 ms

Remote clock offset: 3.045 ms

Below is generated by plot.py at 2018-06-19 07:09:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.61 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 0.07%

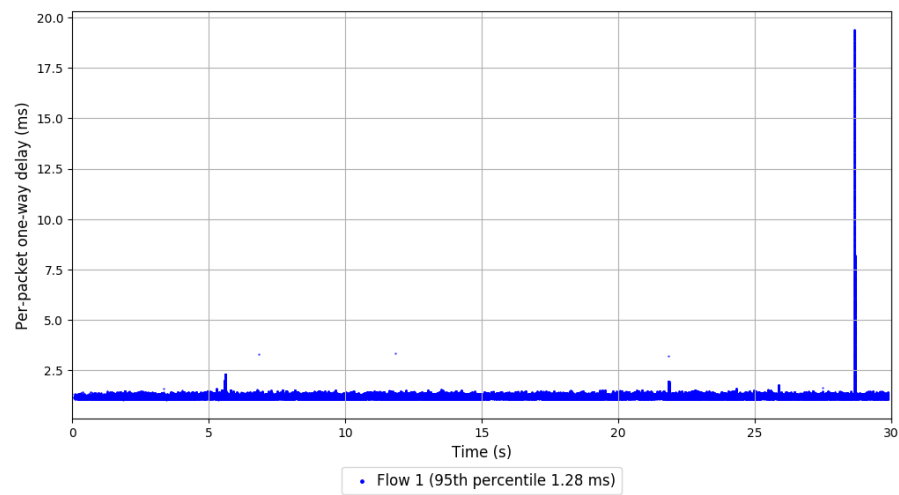
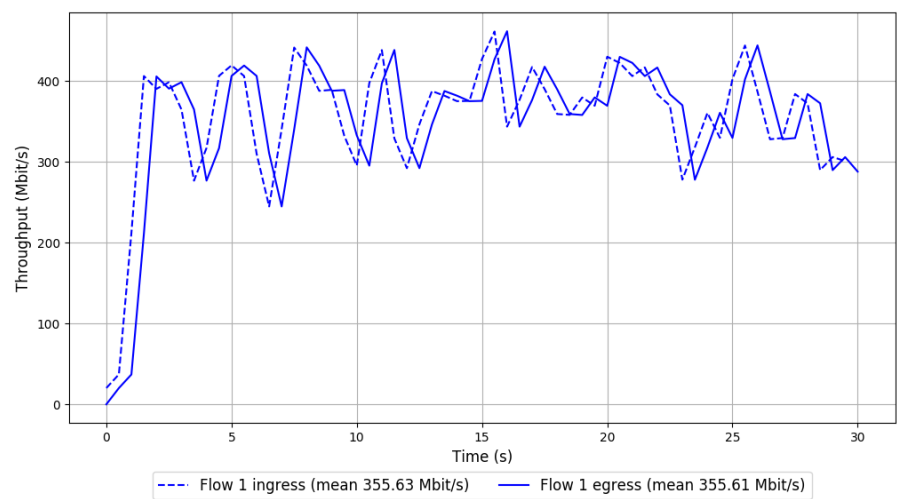
-- Flow 1:

Average throughput: 355.61 Mbit/s

95th percentile per-packet one-way delay: 1.283 ms

Loss rate: 0.07%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 03:40:08

End at: 2018-06-19 03:40:38

Local clock offset: 3.535 ms

Remote clock offset: 3.437 ms

Below is generated by plot.py at 2018-06-19 07:10:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.01 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.06%

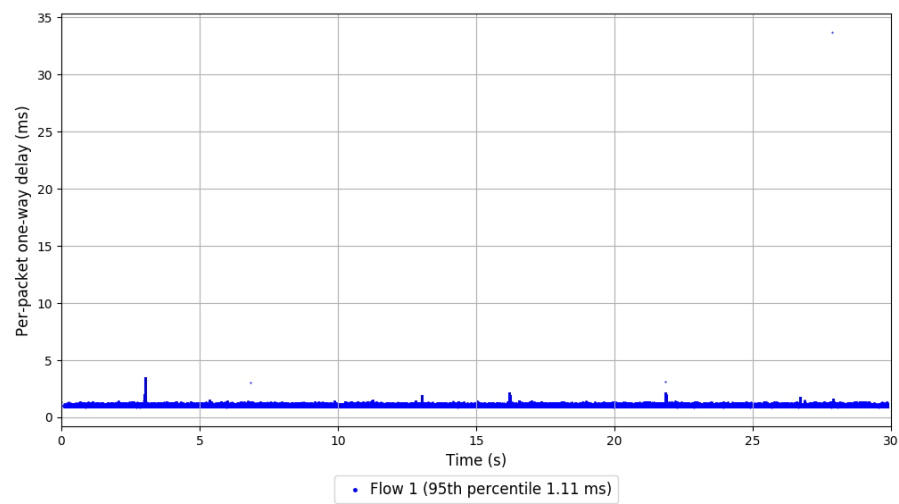
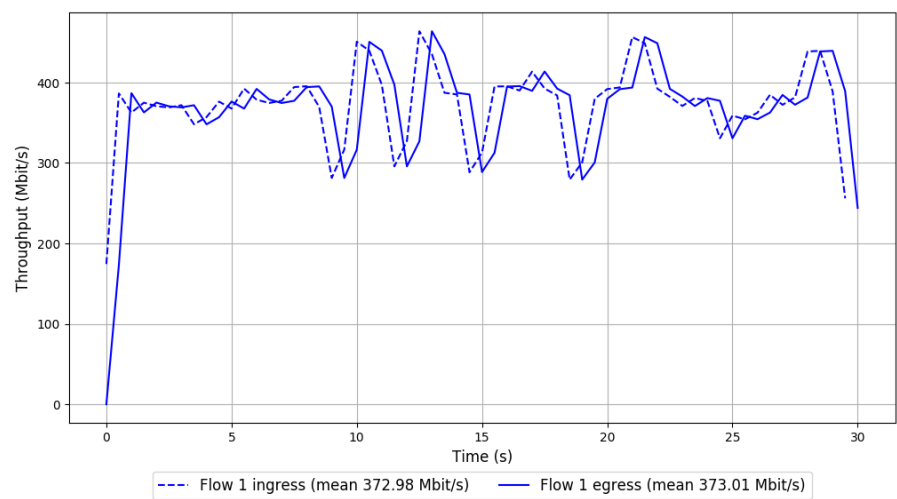
-- Flow 1:

Average throughput: 373.01 Mbit/s

95th percentile per-packet one-way delay: 1.109 ms

Loss rate: 0.06%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 04:04:17

End at: 2018-06-19 04:04:47

Local clock offset: 3.72 ms

Remote clock offset: 3.779 ms

Below is generated by plot.py at 2018-06-19 07:10:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 366.26 Mbit/s

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

Loss rate: 0.05%

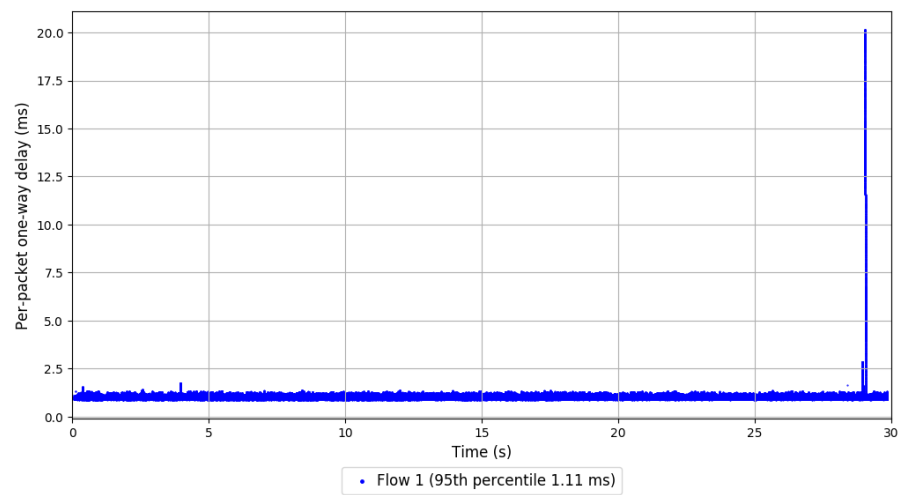
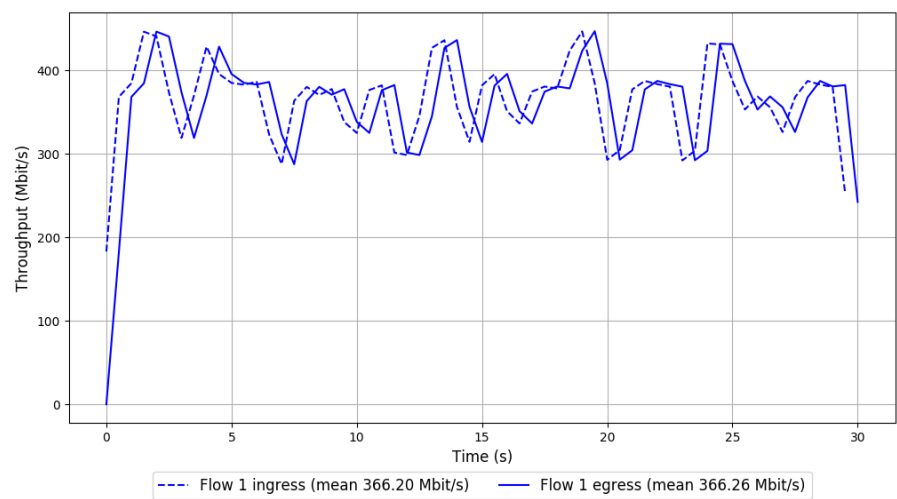
-- Flow 1:

Average throughput: 366.26 Mbit/s

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

Loss rate: 0.05%

Run 6: Report of PCC-Expr — Data Link

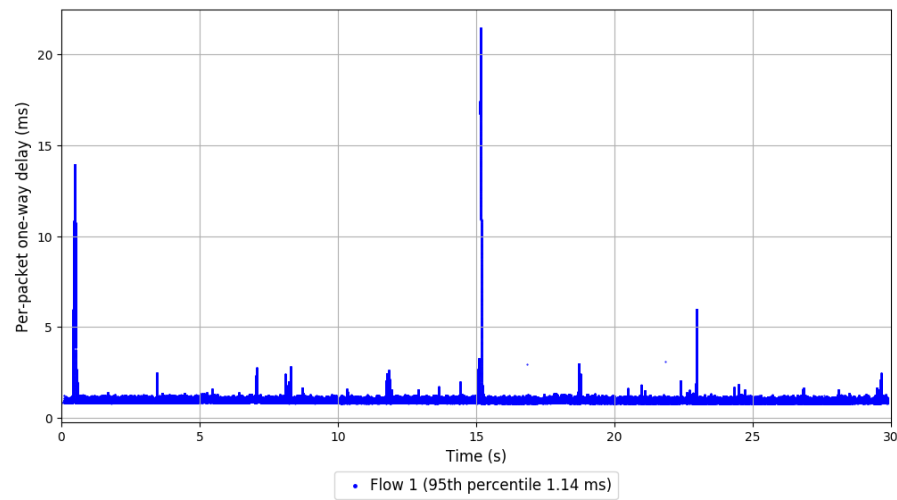
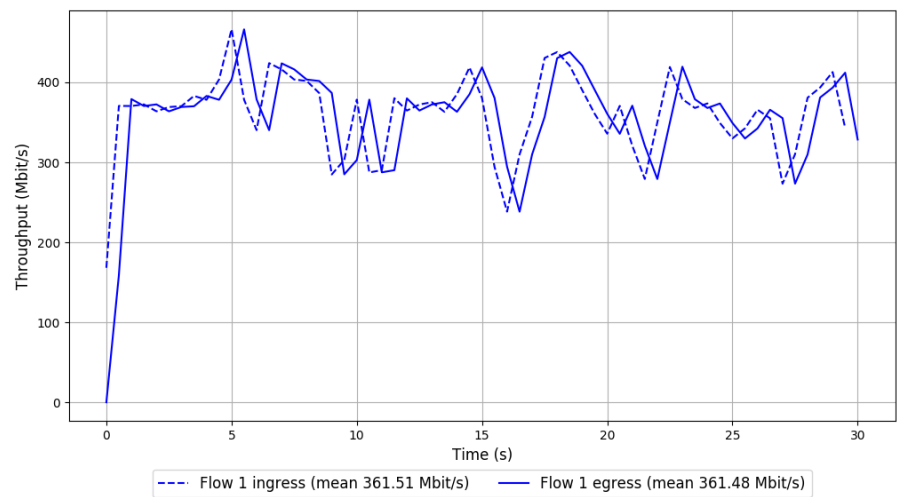


Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 04:28:36
End at: 2018-06-19 04:29:06
Local clock offset: 3.678 ms
Remote clock offset: -1.002 ms

Below is generated by plot.py at 2018-06-19 07:15:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 361.48 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 361.48 Mbit/s
95th percentile per-packet one-way delay: 1.140 ms
Loss rate: 0.07%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 04:52:53

End at: 2018-06-19 04:53:23

Local clock offset: 3.697 ms

Remote clock offset: 1.844 ms

Below is generated by plot.py at 2018-06-19 07:16:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.84 Mbit/s

95th percentile per-packet one-way delay: 2.696 ms

Loss rate: 0.07%

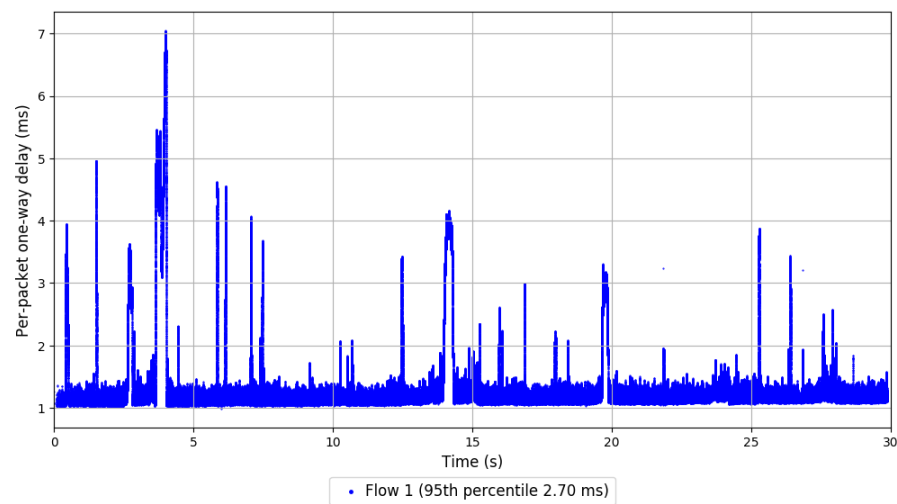
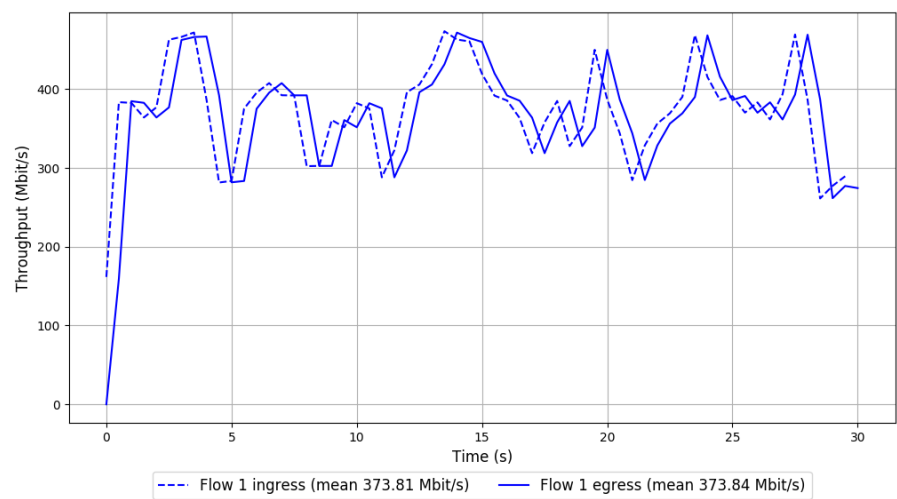
-- Flow 1:

Average throughput: 373.84 Mbit/s

95th percentile per-packet one-way delay: 2.696 ms

Loss rate: 0.07%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 05:17:12

End at: 2018-06-19 05:17:42

Local clock offset: 3.711 ms

Remote clock offset: 1.893 ms

Below is generated by plot.py at 2018-06-19 07:16:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.78 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.06%

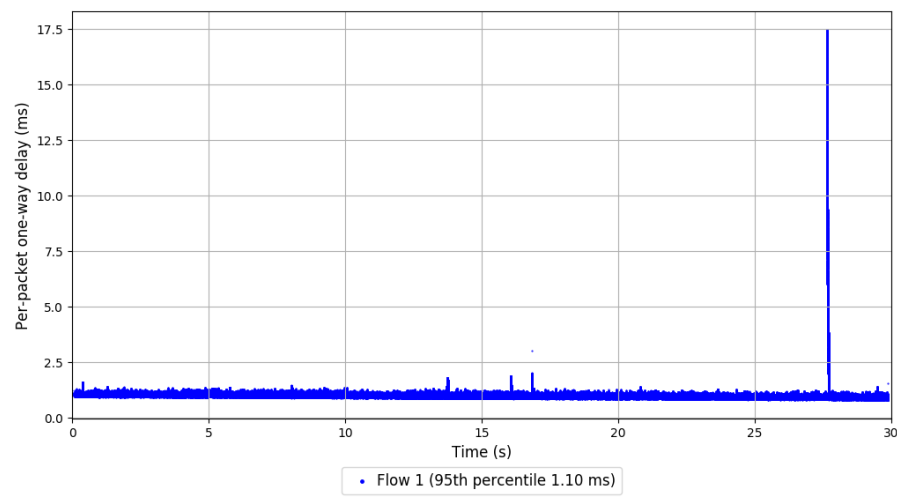
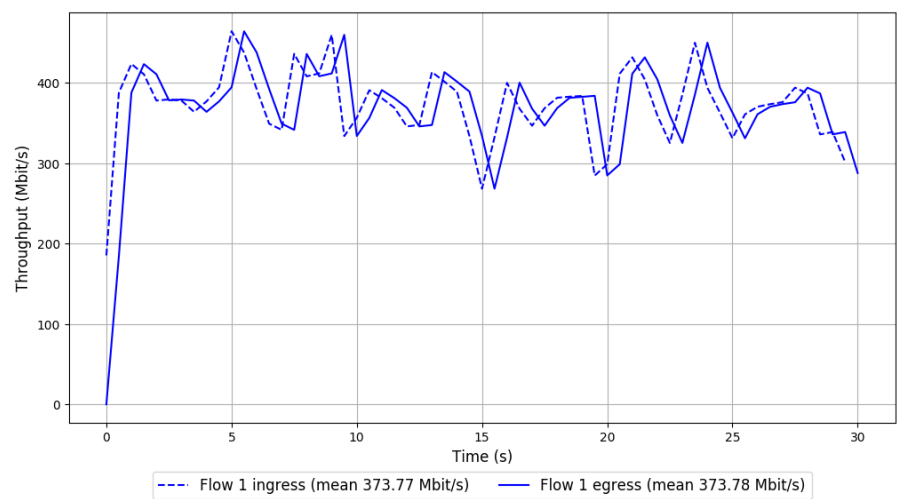
-- Flow 1:

Average throughput: 373.78 Mbit/s

95th percentile per-packet one-way delay: 1.097 ms

Loss rate: 0.06%

Run 9: Report of PCC-Expr — Data Link

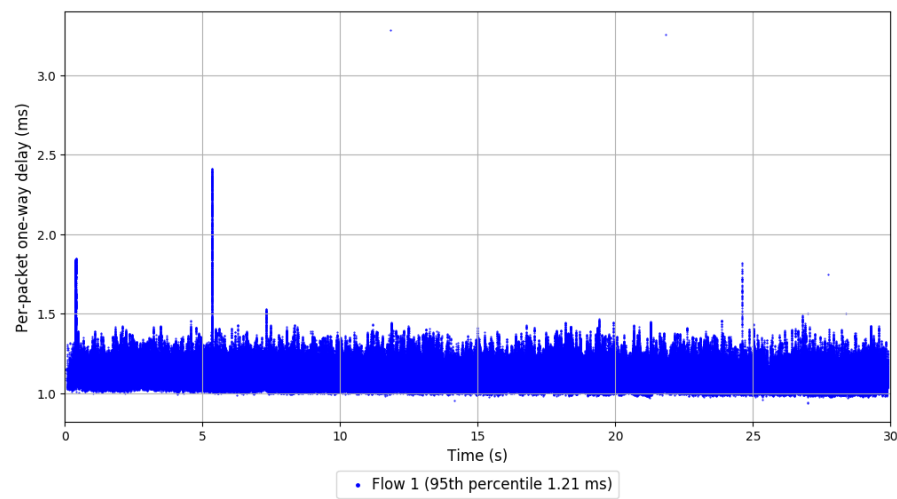
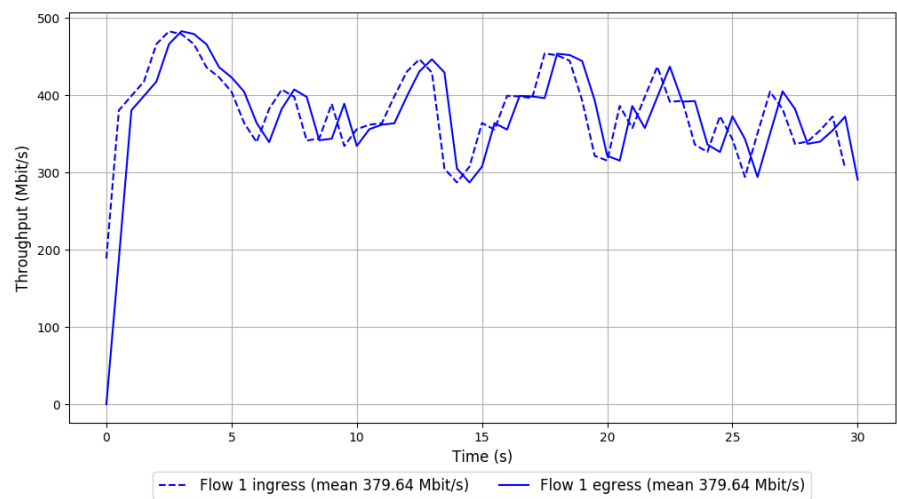


Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 05:41:32
End at: 2018-06-19 05:42:02
Local clock offset: 3.628 ms
Remote clock offset: -1.375 ms

Below is generated by plot.py at 2018-06-19 07:16:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 379.64 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 379.64 Mbit/s
95th percentile per-packet one-way delay: 1.208 ms
Loss rate: 0.07%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 02:04:48

End at: 2018-06-19 02:05:18

Local clock offset: 3.587 ms

Remote clock offset: 2.353 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.12 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.07%

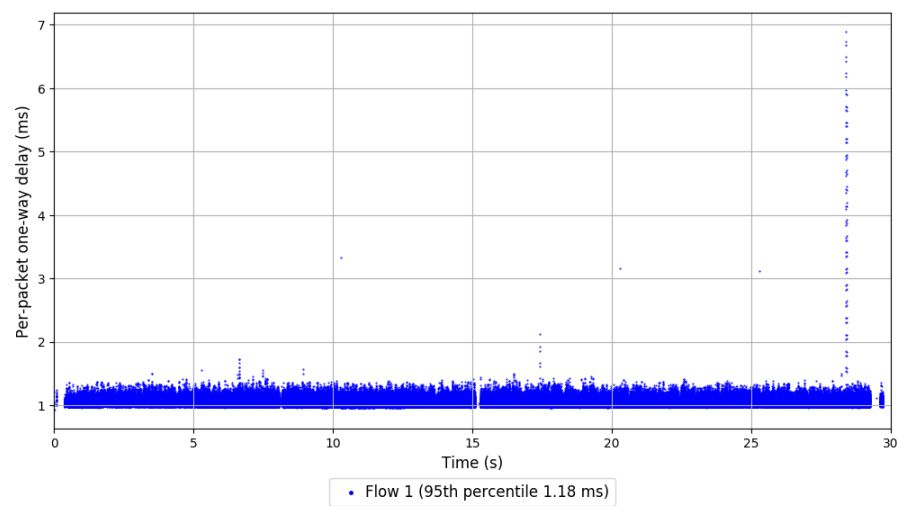
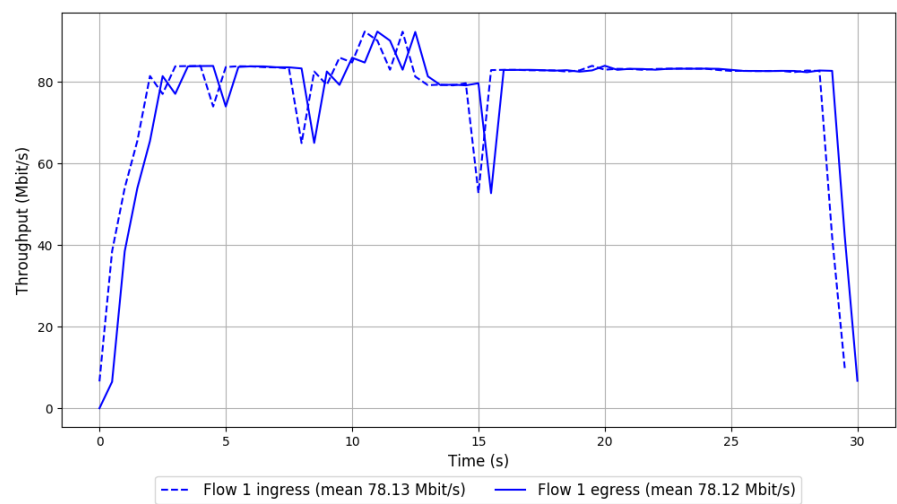
-- Flow 1:

Average throughput: 78.12 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 02:29:06

End at: 2018-06-19 02:29:36

Local clock offset: 3.575 ms

Remote clock offset: 2.742 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 85.51 Mbit/s

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

Loss rate: 0.07%

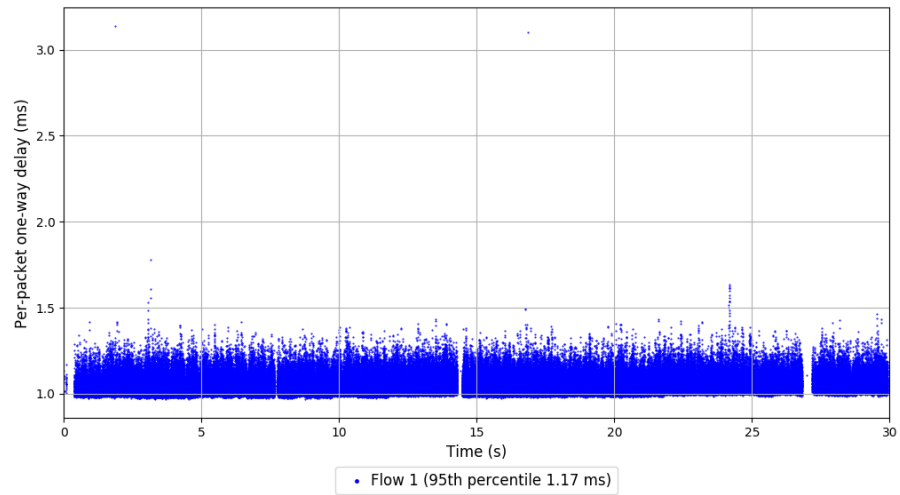
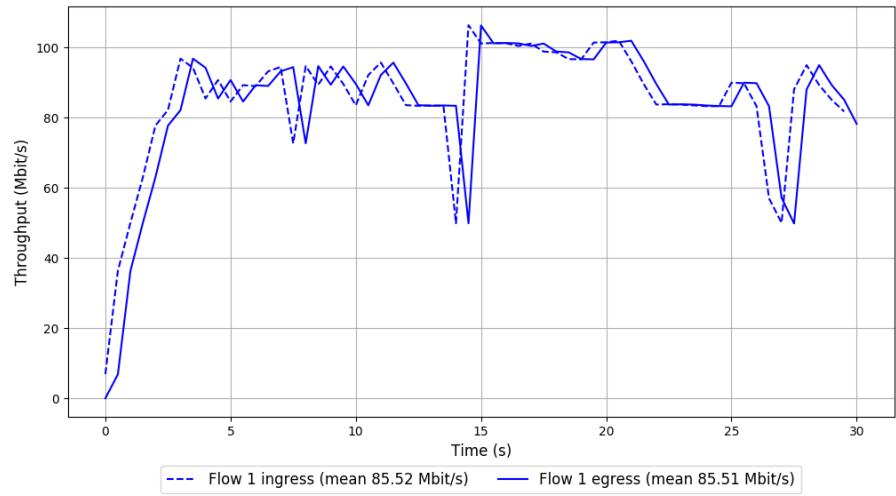
-- Flow 1:

Average throughput: 85.51 Mbit/s

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

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 02:53:16

End at: 2018-06-19 02:53:46

Local clock offset: 3.453 ms

Remote clock offset: 3.246 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.60 Mbit/s

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

Loss rate: 0.07%

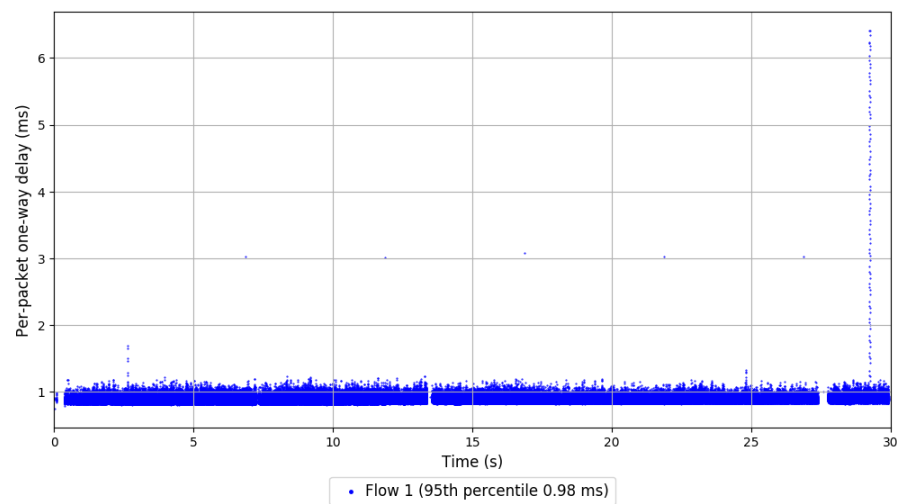
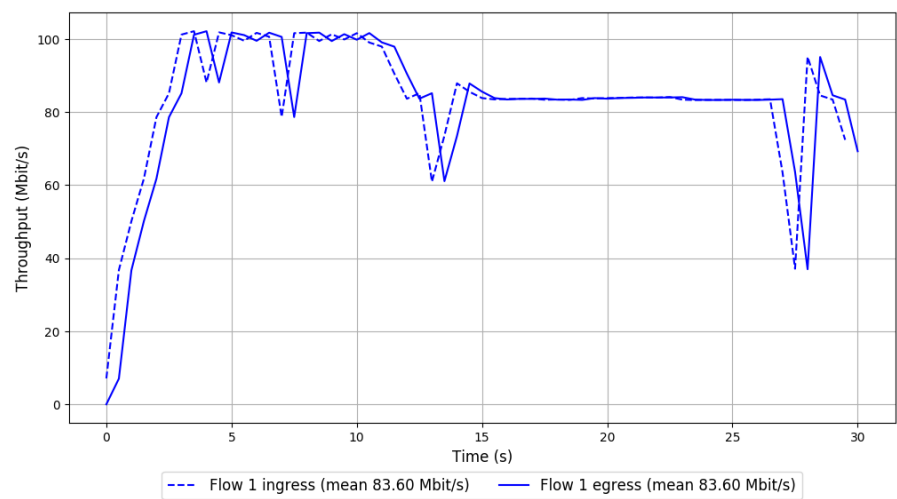
-- Flow 1:

Average throughput: 83.60 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 03:17:36

End at: 2018-06-19 03:18:06

Local clock offset: 3.453 ms

Remote clock offset: 3.108 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.43 Mbit/s

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

Loss rate: 0.06%

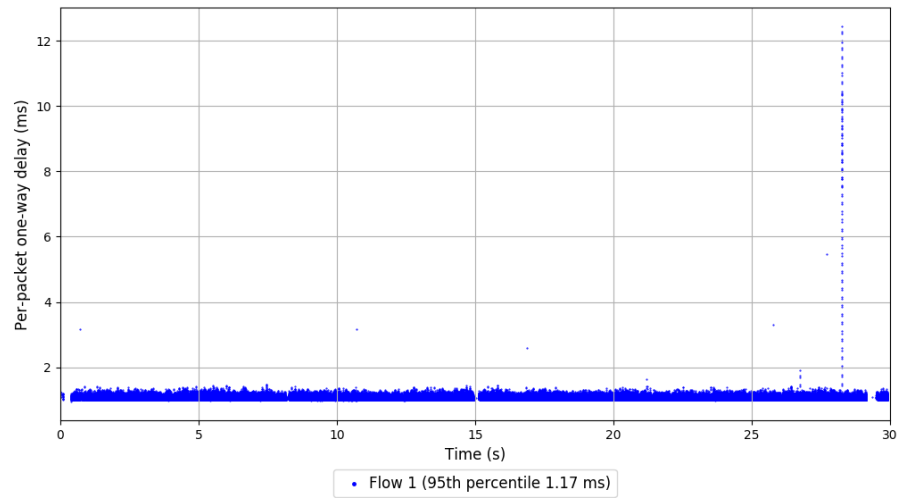
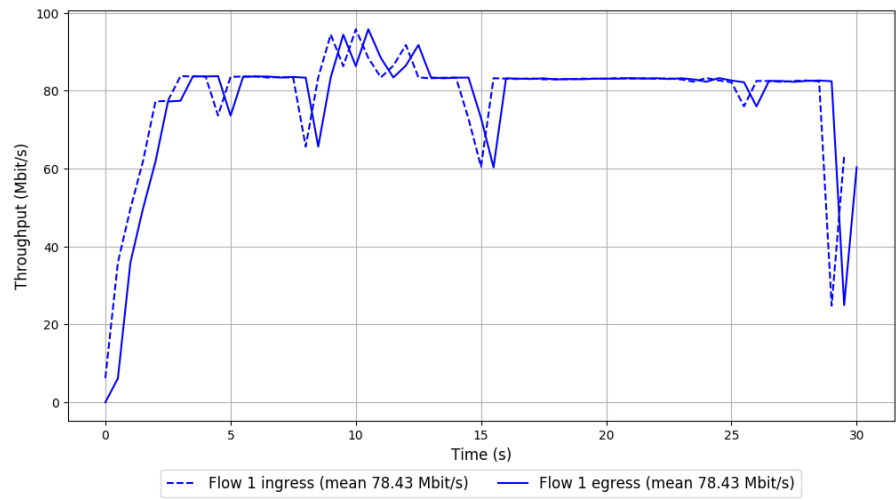
-- Flow 1:

Average throughput: 78.43 Mbit/s

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

Loss rate: 0.06%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 03:41:47

End at: 2018-06-19 03:42:17

Local clock offset: 3.56 ms

Remote clock offset: 3.39 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.26 Mbit/s

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

Loss rate: 0.08%

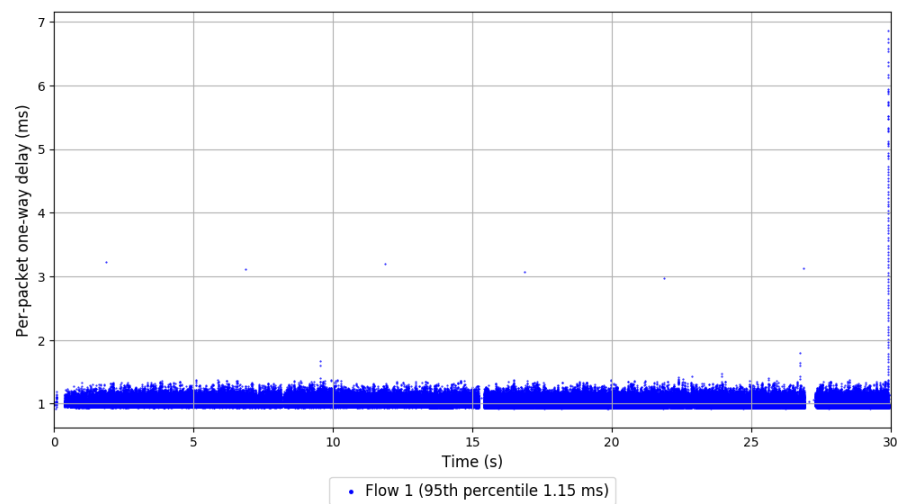
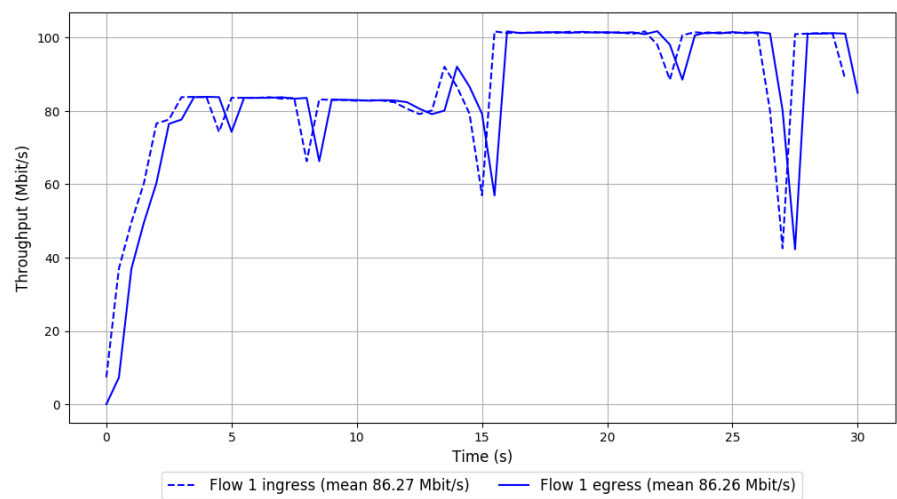
-- Flow 1:

Average throughput: 86.26 Mbit/s

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

Loss rate: 0.08%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-19 04:05:56

End at: 2018-06-19 04:06:26

Local clock offset: 3.787 ms

Remote clock offset: 3.689 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.07%

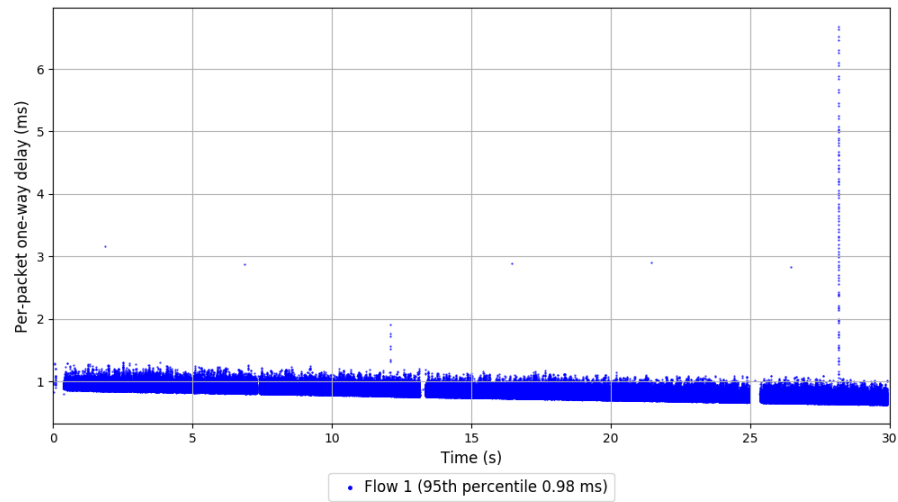
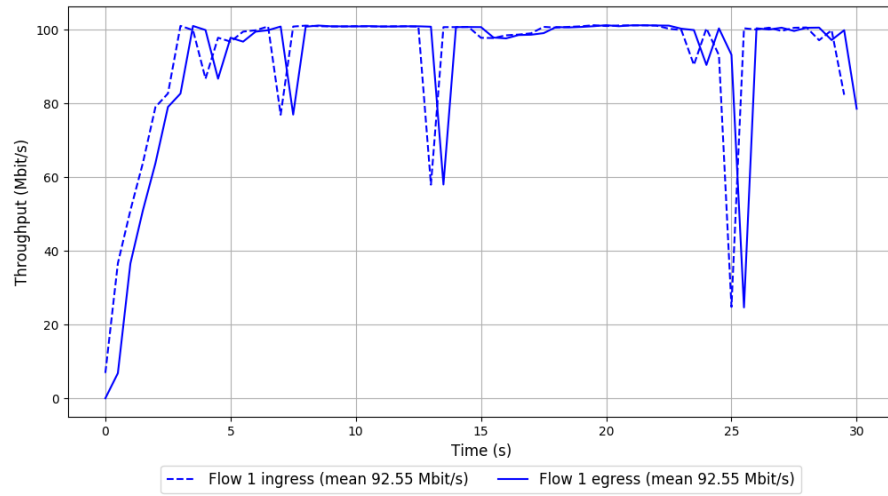
-- Flow 1:

Average throughput: 92.55 Mbit/s

95th percentile per-packet one-way delay: 0.983 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 04:30:16

End at: 2018-06-19 04:30:46

Local clock offset: 3.736 ms

Remote clock offset: -1.132 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.07%

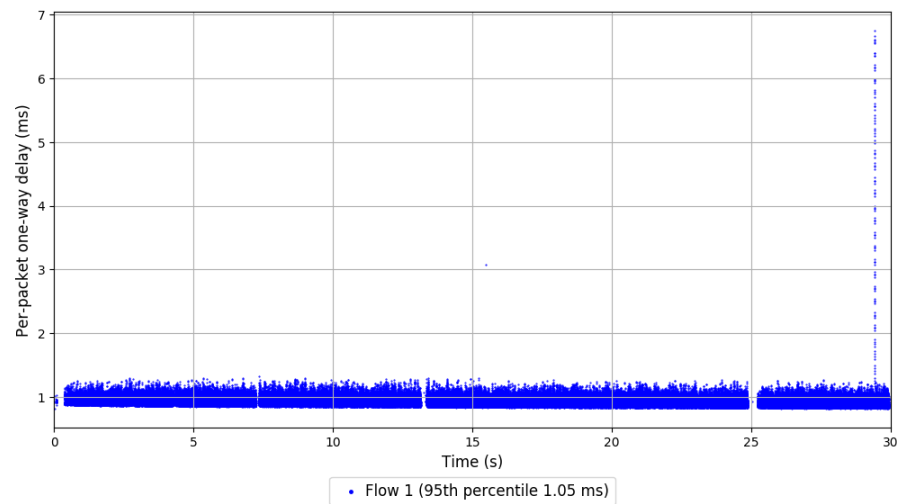
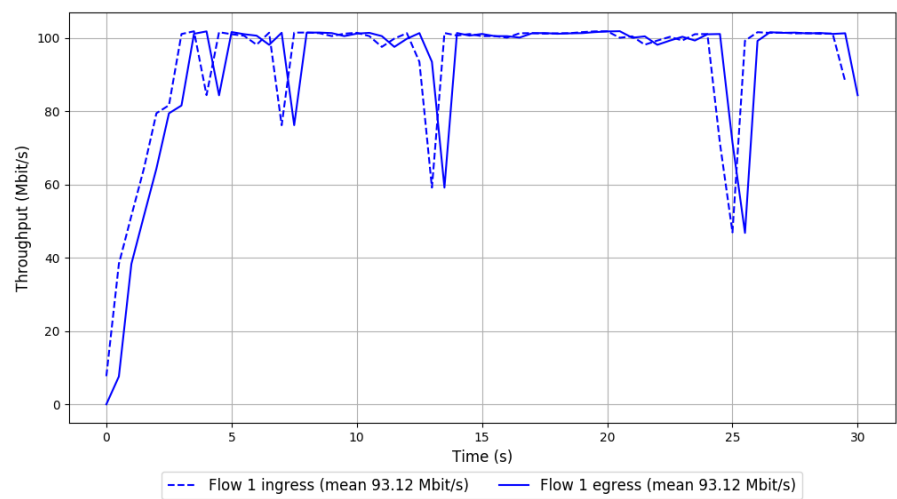
-- Flow 1:

Average throughput: 93.12 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 04:54:33

End at: 2018-06-19 04:55:03

Local clock offset: 3.711 ms

Remote clock offset: 2.085 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.02%

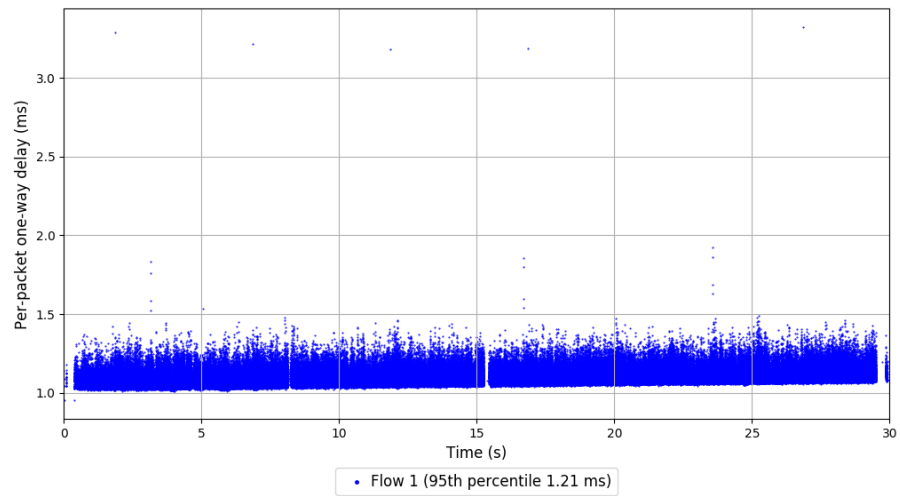
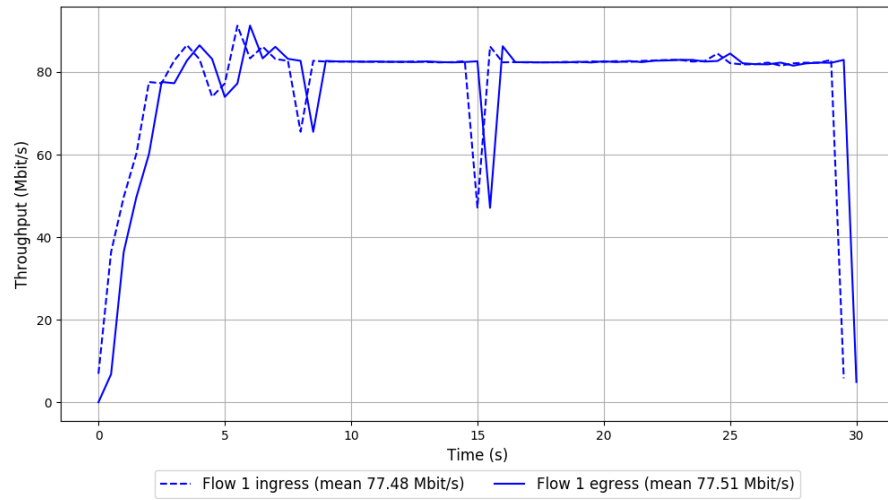
-- Flow 1:

Average throughput: 77.51 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.02%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 05:18:52

End at: 2018-06-19 05:19:22

Local clock offset: 3.715 ms

Remote clock offset: 1.453 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.87 Mbit/s

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

Loss rate: 0.07%

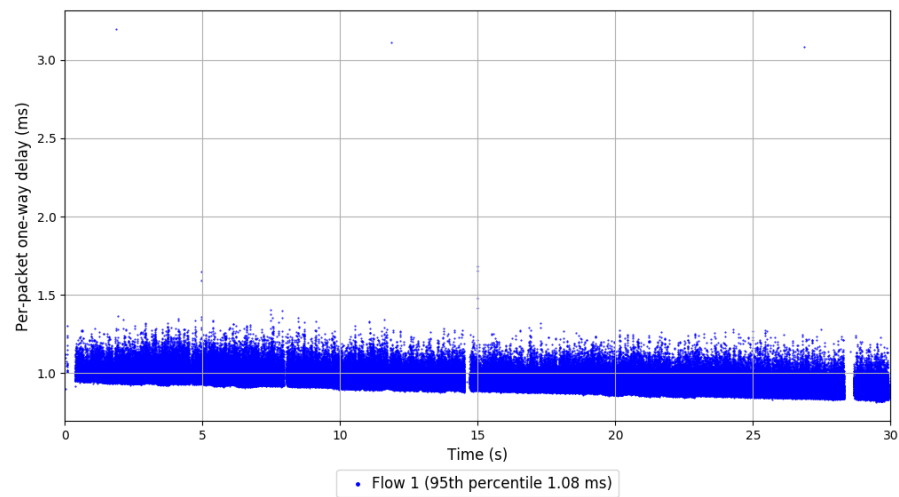
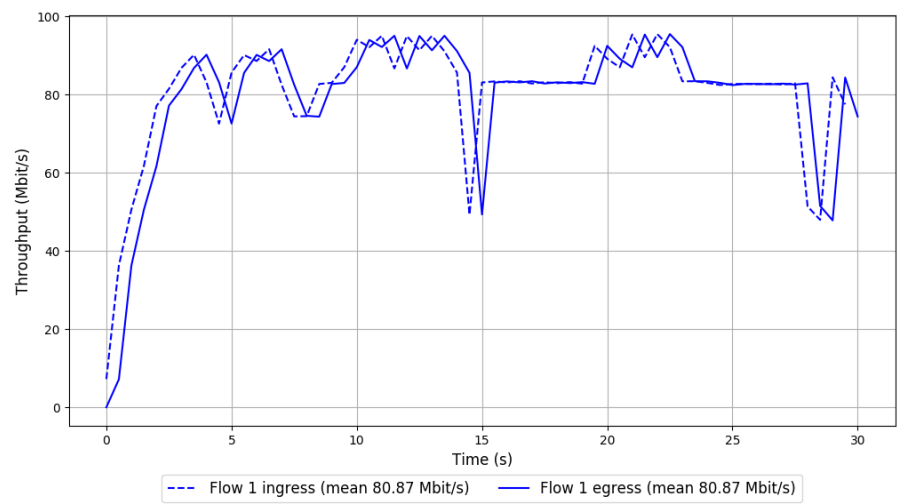
-- Flow 1:

Average throughput: 80.87 Mbit/s

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

Loss rate: 0.07%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 05:43:13

End at: 2018-06-19 05:43:43

Local clock offset: 3.6 ms

Remote clock offset: -1.473 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.08%

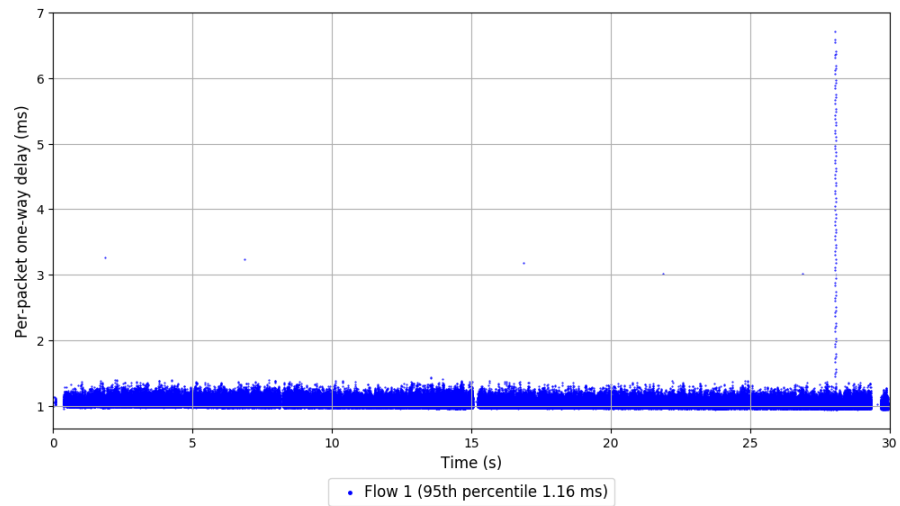
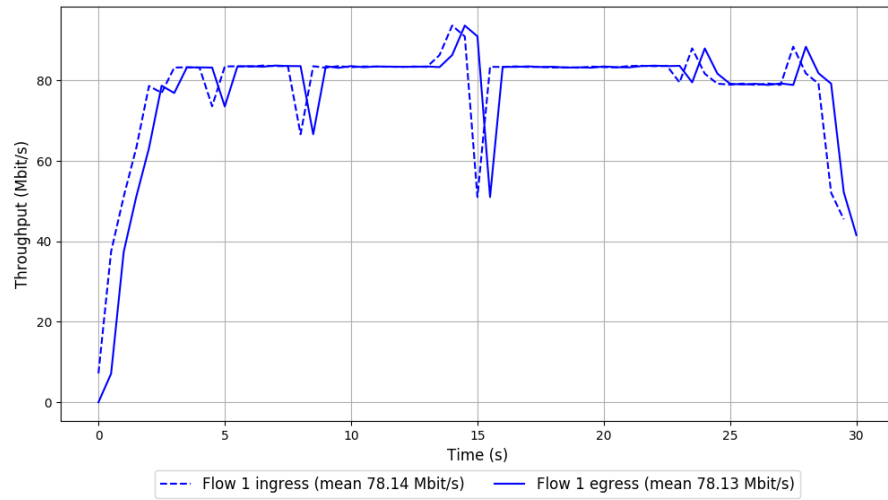
-- Flow 1:

Average throughput: 78.13 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.08%

Run 10: Report of QUIC Cubic — Data Link

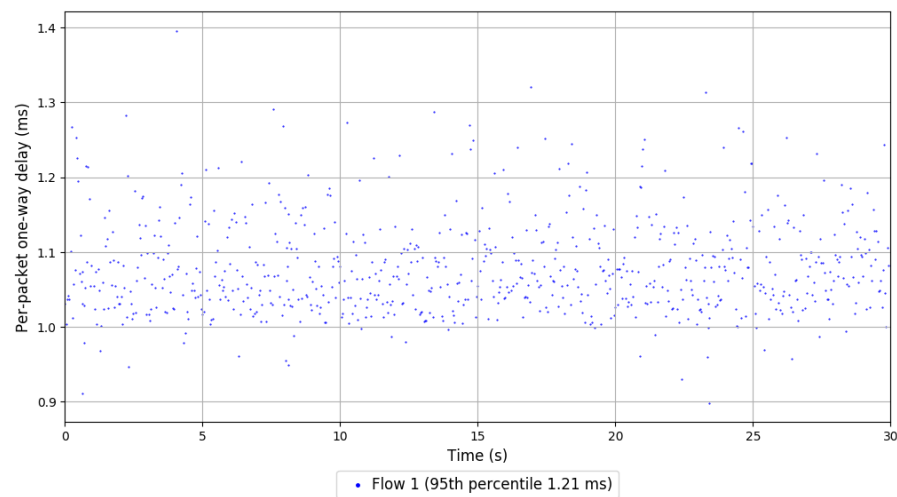
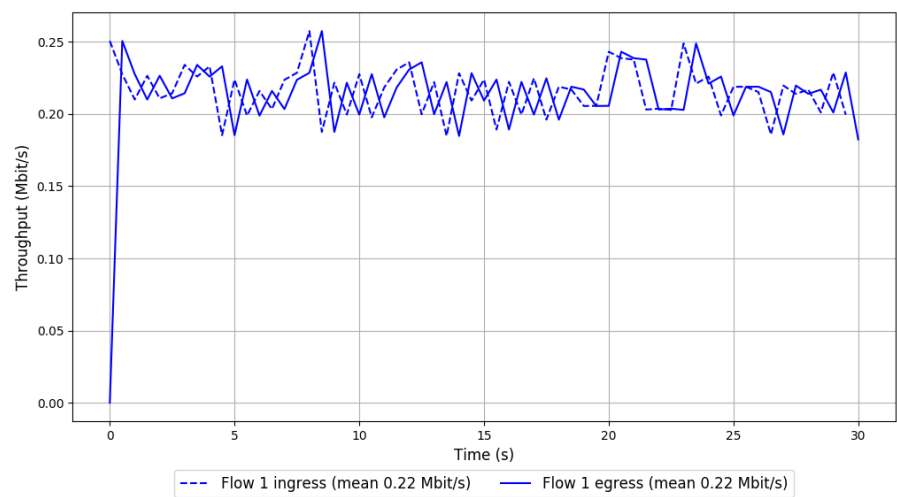


```
Run 1: Statistics of SCReAM

Start at: 2018-06-19 01:48:08
End at: 2018-06-19 01:48:38
Local clock offset: 3.598 ms
Remote clock offset: 2.925 ms

# Below is generated by plot.py at 2018-06-19 07:16:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.13%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-19 02:12:26

End at: 2018-06-19 02:12:56

Local clock offset: 3.654 ms

Remote clock offset: 2.405 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.13%

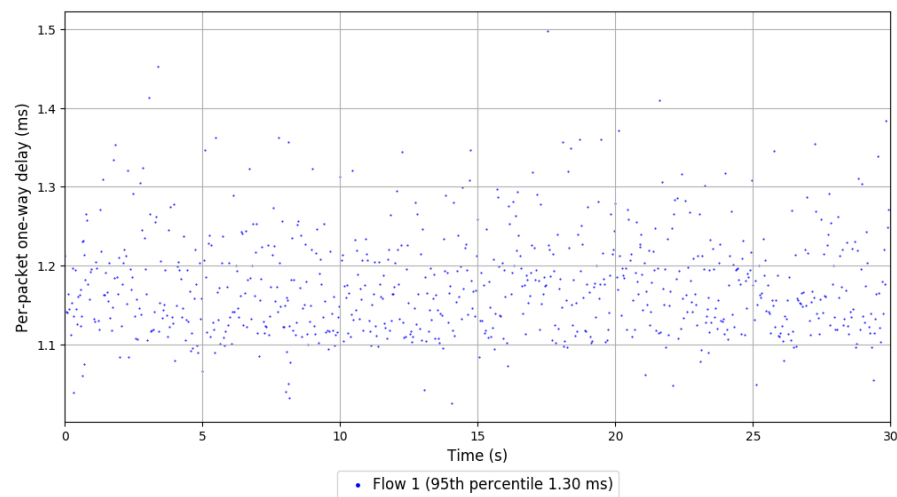
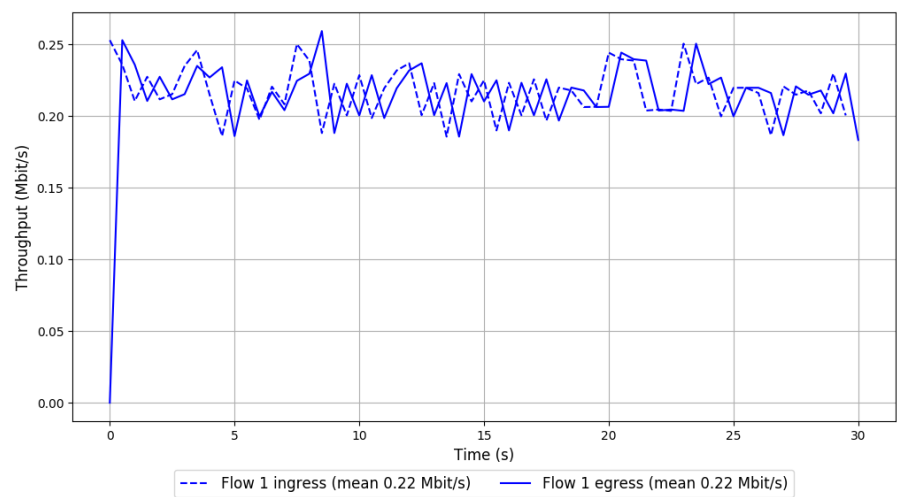
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.302 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-19 02:36:36

End at: 2018-06-19 02:37:06

Local clock offset: 3.462 ms

Remote clock offset: 2.84 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.13%

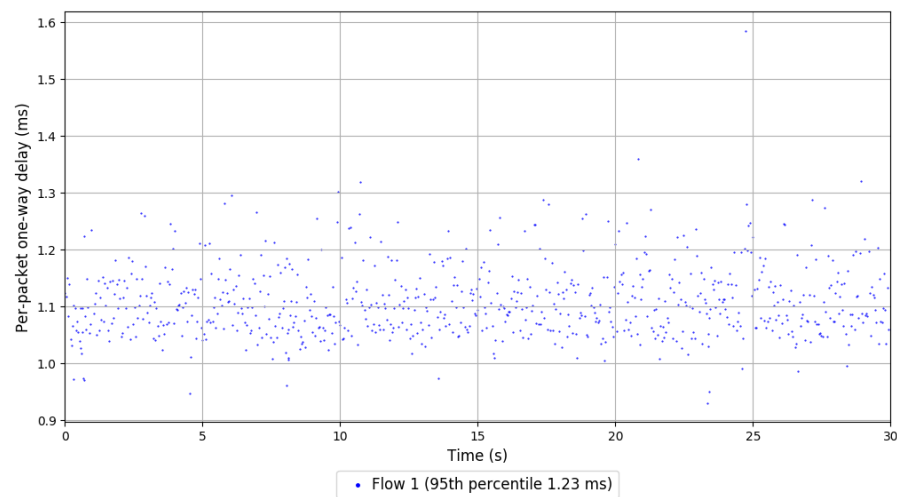
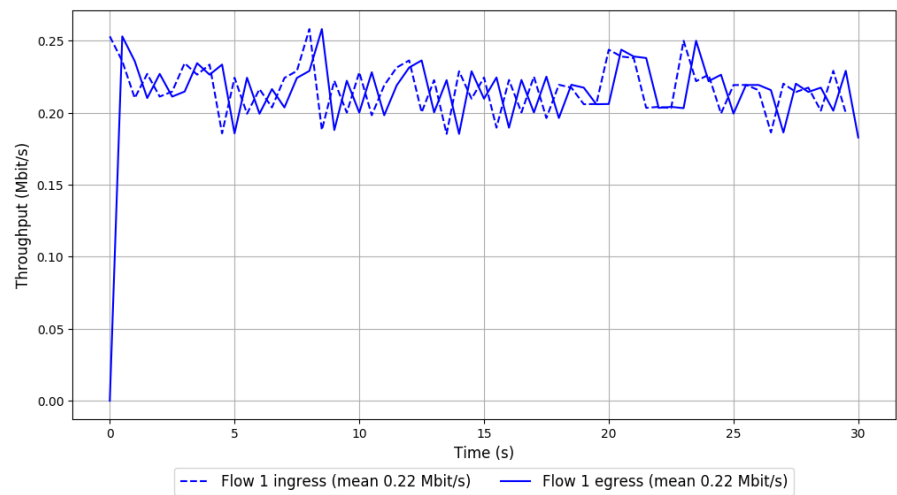
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.13%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-19 03:00:55

End at: 2018-06-19 03:01:25

Local clock offset: 3.411 ms

Remote clock offset: 3.136 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

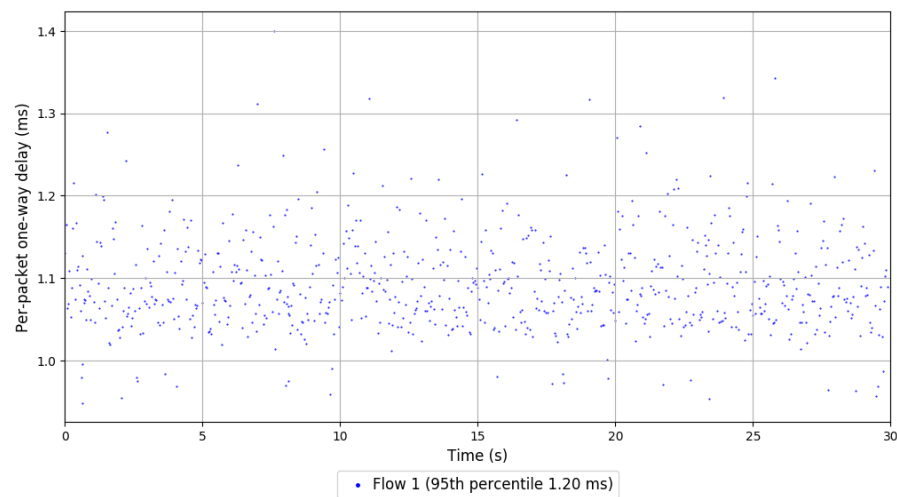
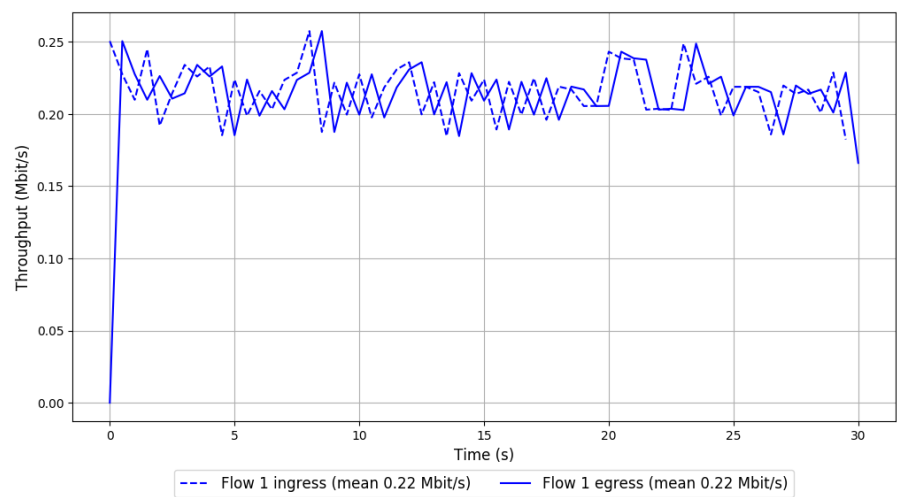
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.13%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-19 03:25:09

End at: 2018-06-19 03:25:39

Local clock offset: 3.362 ms

Remote clock offset: 3.221 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

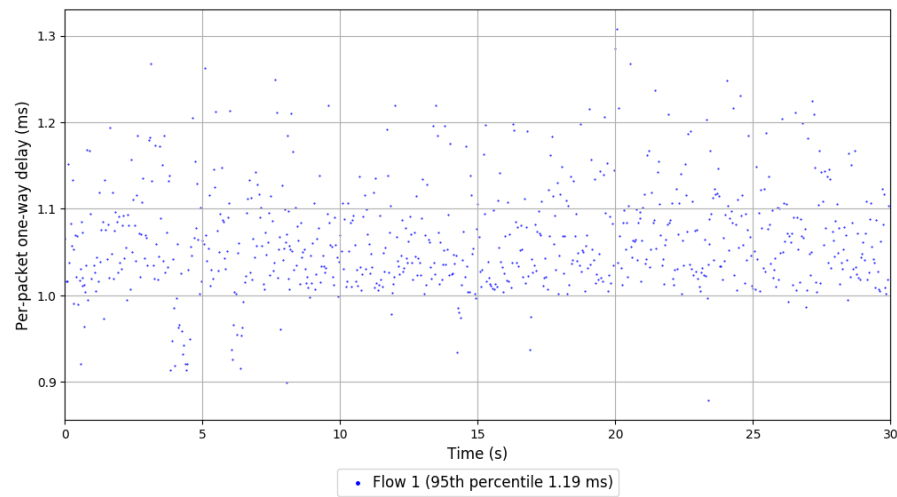
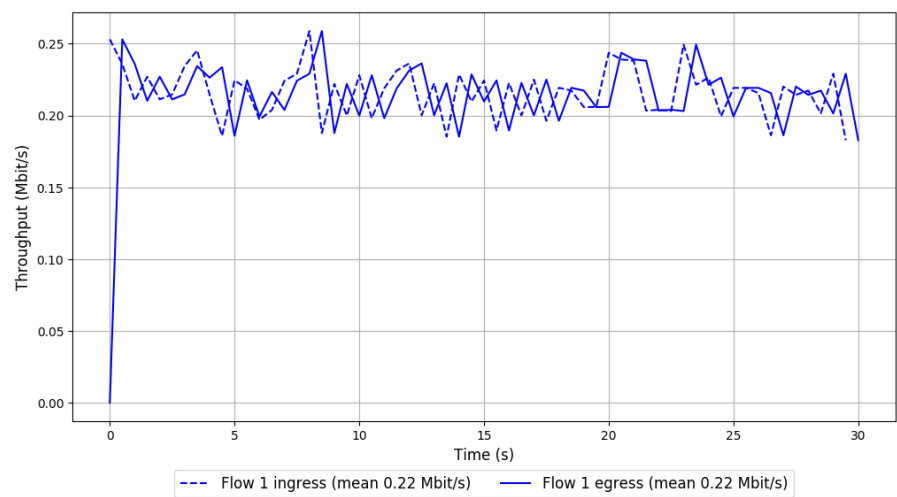
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-19 03:49:24

End at: 2018-06-19 03:49:54

Local clock offset: 3.739 ms

Remote clock offset: 3.584 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

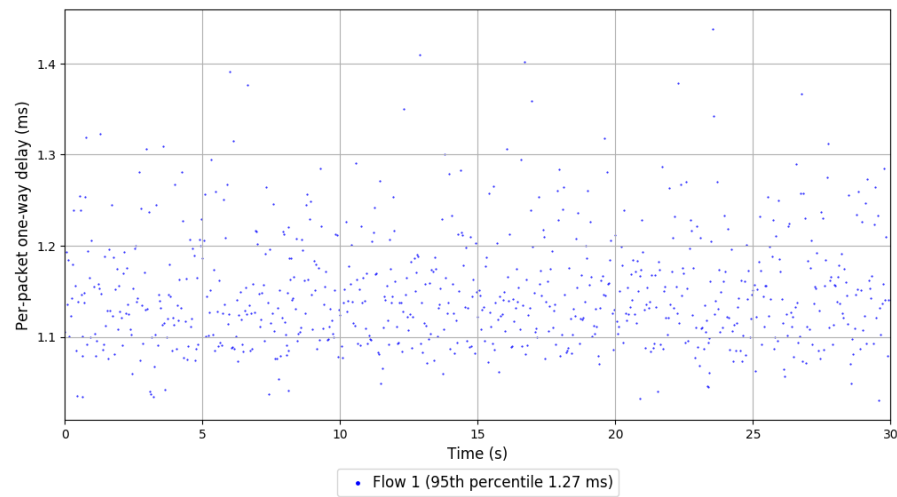
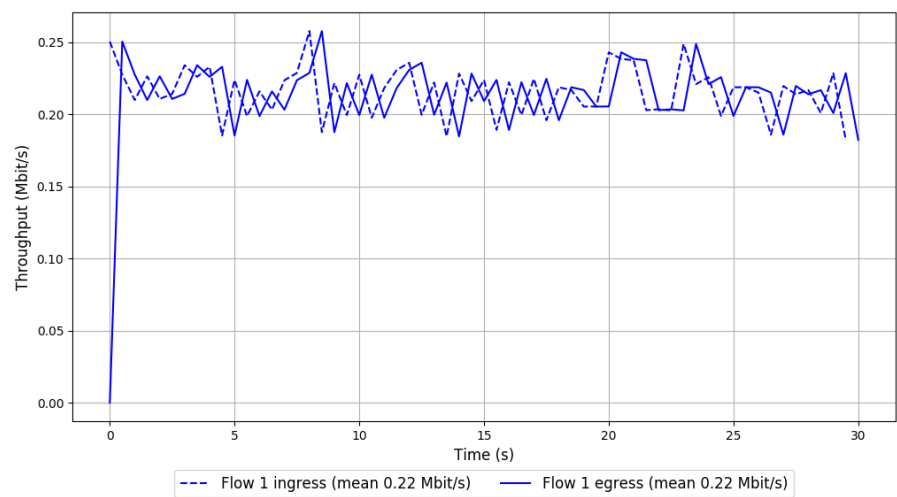
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-19 04:13:37

End at: 2018-06-19 04:14:07

Local clock offset: 3.765 ms

Remote clock offset: 1.024 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.13%

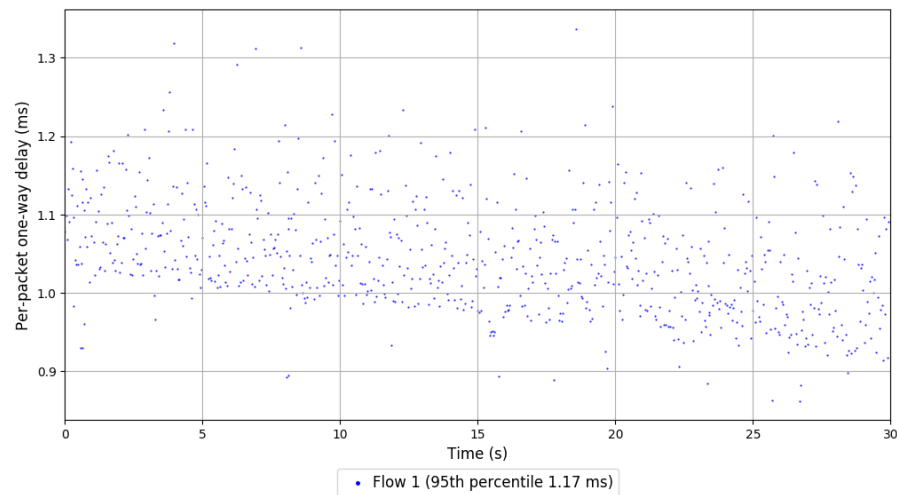
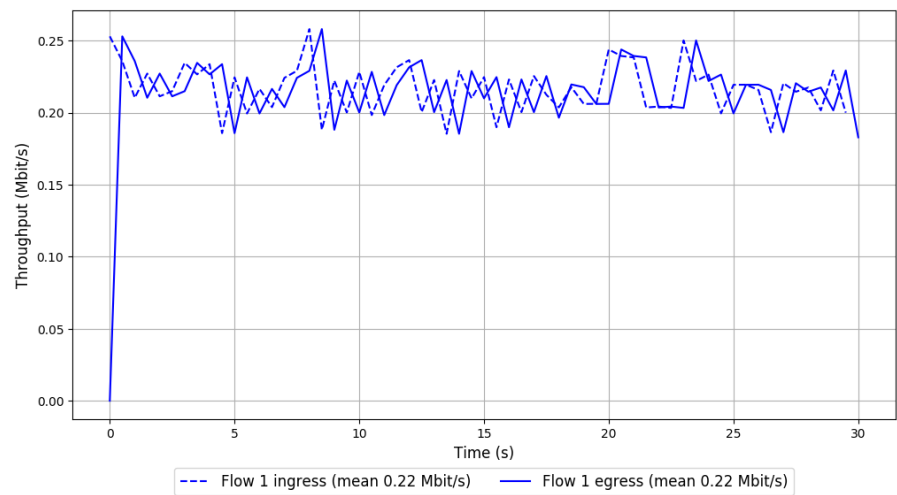
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.172 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

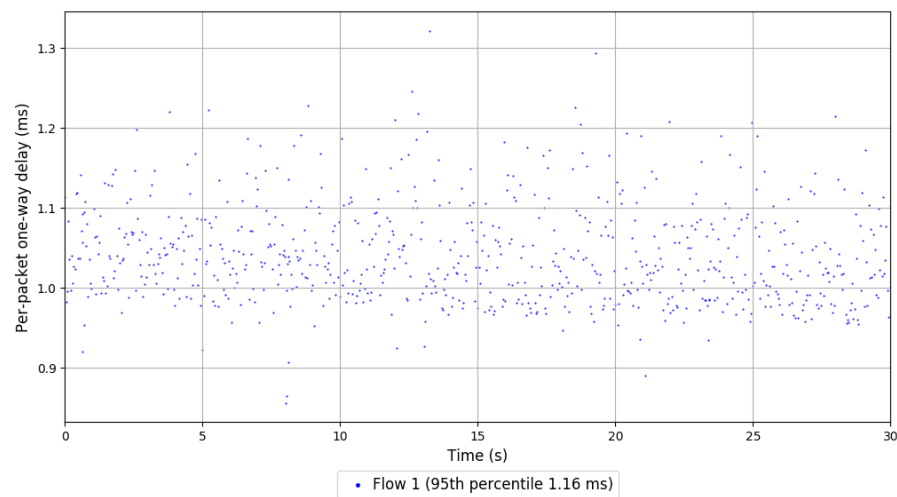
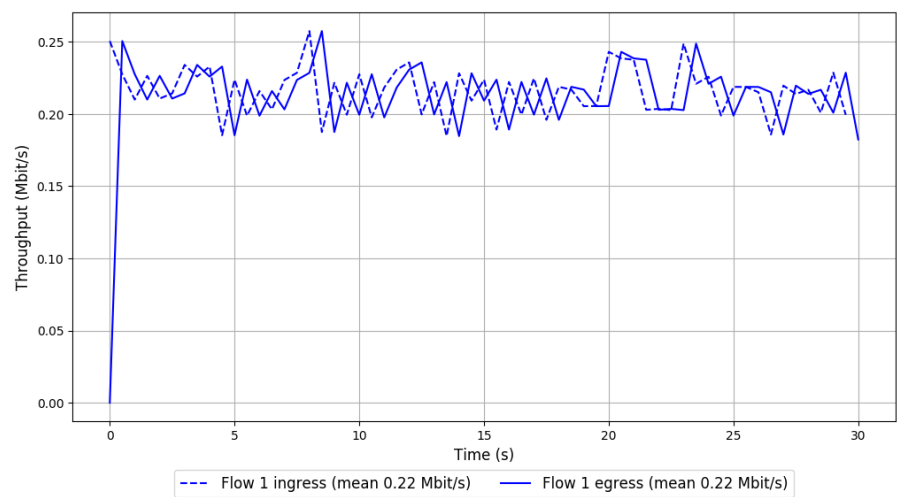


Run 8: Statistics of SCReAM

Start at: 2018-06-19 04:37:52
End at: 2018-06-19 04:38:22
Local clock offset: 3.675 ms
Remote clock offset: -1.686 ms

Below is generated by plot.py at 2018-06-19 07:16:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.157 ms
Loss rate: 0.13%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-19 05:02:11

End at: 2018-06-19 05:02:41

Local clock offset: 3.61 ms

Remote clock offset: 2.632 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.13%

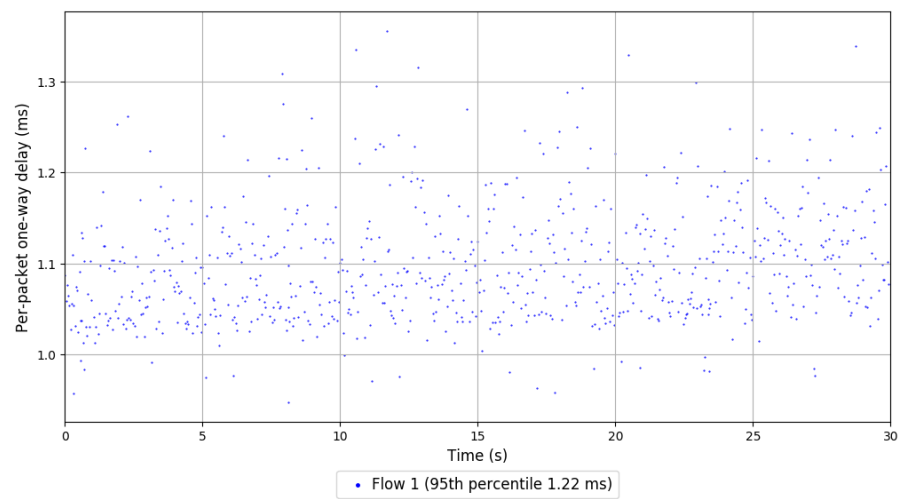
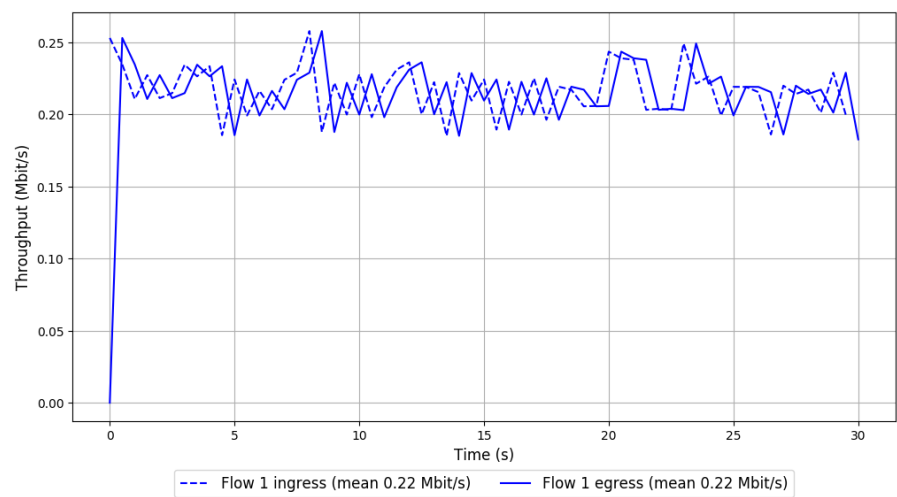
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.224 ms

Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-19 05:26:30

End at: 2018-06-19 05:27:00

Local clock offset: 3.716 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.00%

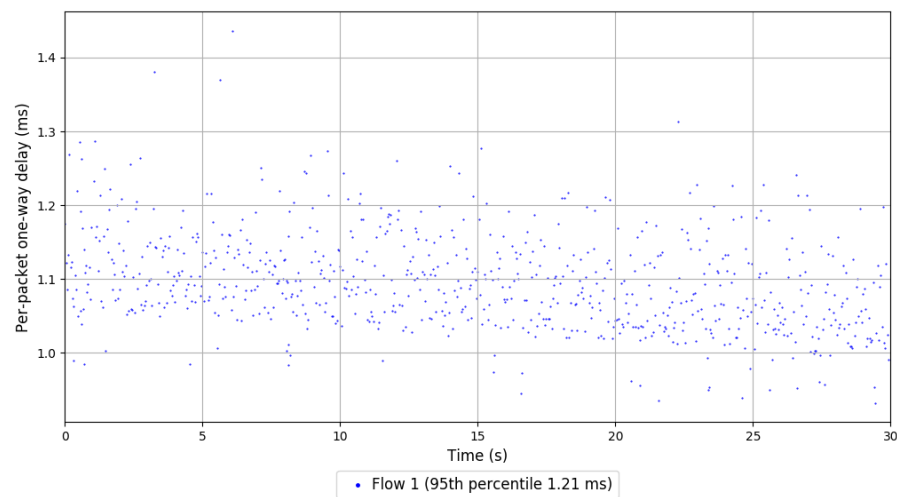
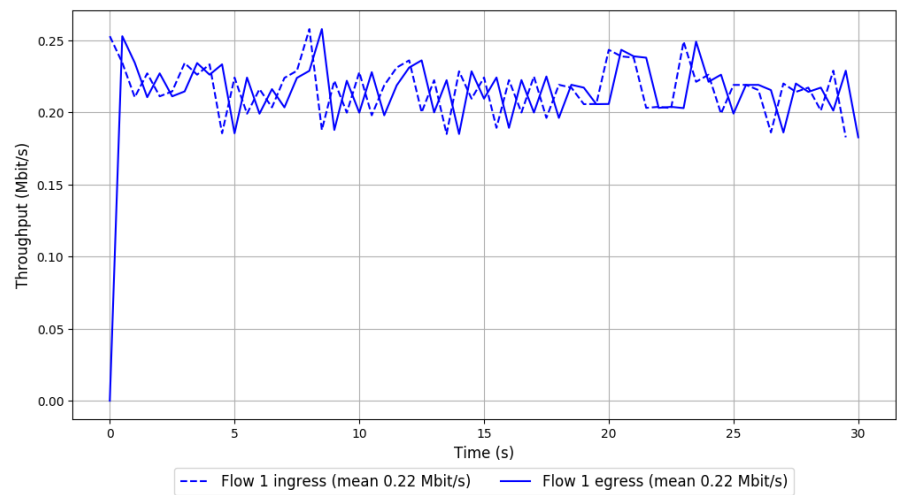
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-19 01:49:25

End at: 2018-06-19 01:49:55

Local clock offset: 3.677 ms

Remote clock offset: 2.896 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.59 Mbit/s

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

Loss rate: 0.00%

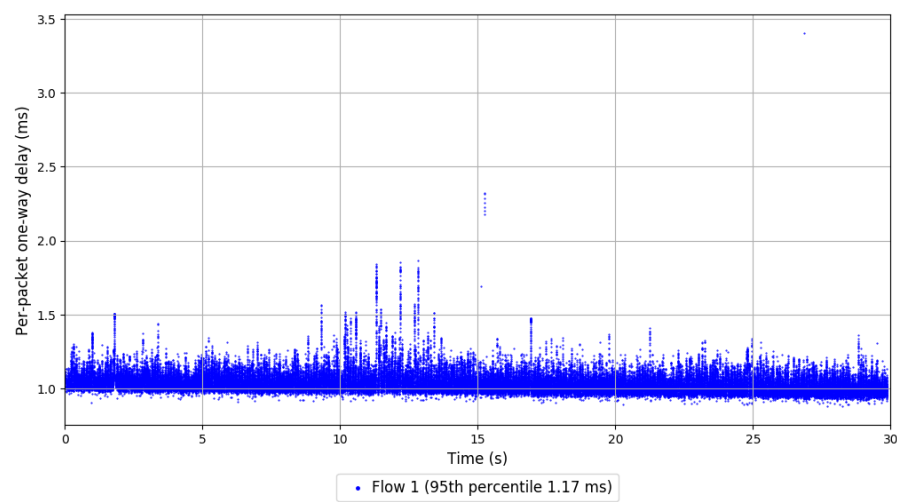
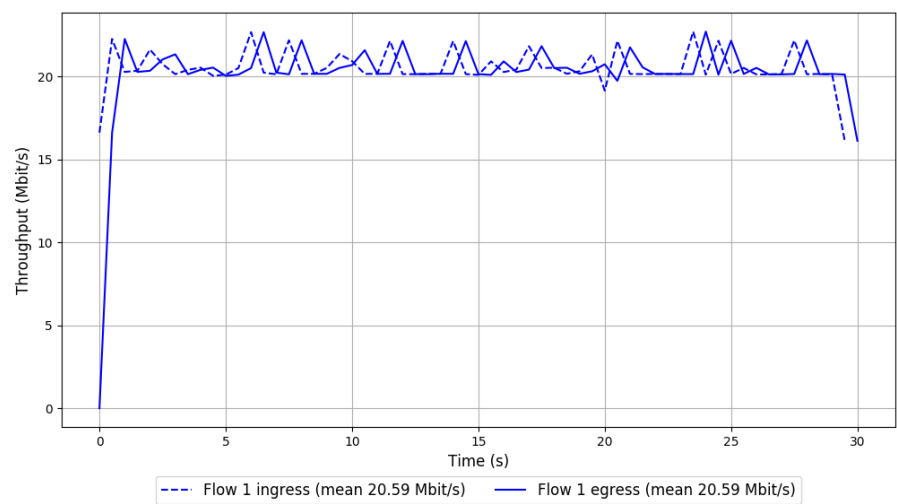
-- Flow 1:

Average throughput: 20.59 Mbit/s

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

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-06-19 02:13:44

End at: 2018-06-19 02:14:14

Local clock offset: 3.653 ms

Remote clock offset: 2.407 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.16%

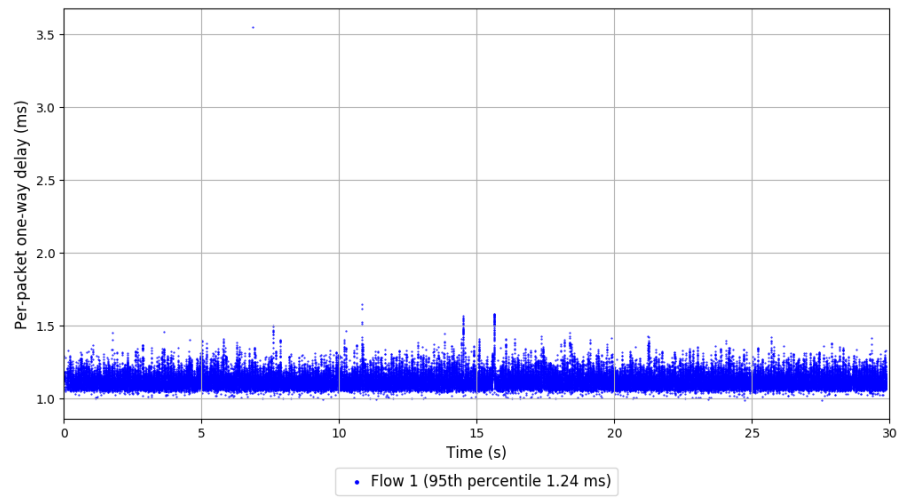
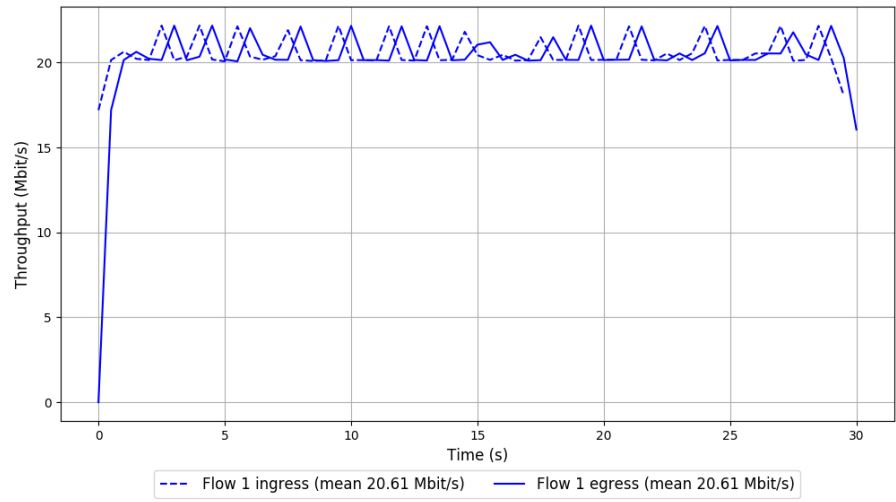
-- Flow 1:

Average throughput: 20.61 Mbit/s

95th percentile per-packet one-way delay: 1.236 ms

Loss rate: 0.16%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-06-19 02:37:54

End at: 2018-06-19 02:38:24

Local clock offset: 3.552 ms

Remote clock offset: 2.893 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.00%

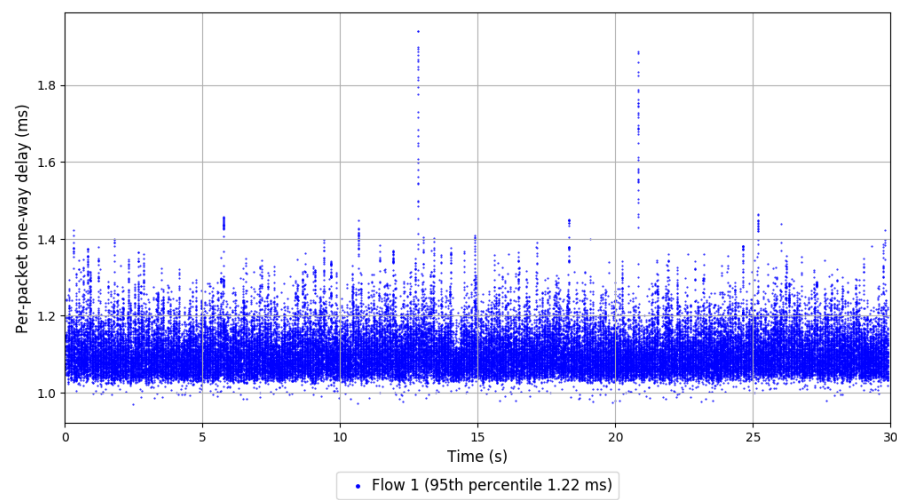
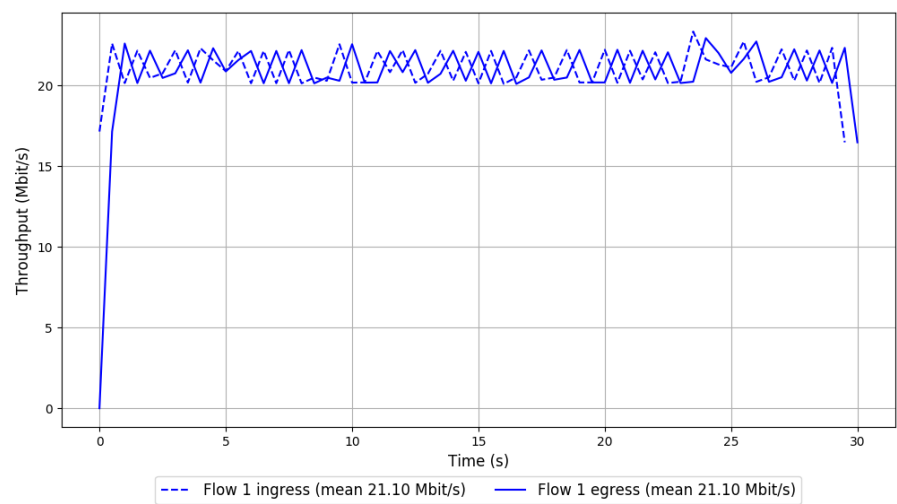
-- Flow 1:

Average throughput: 21.10 Mbit/s

95th percentile per-packet one-way delay: 1.221 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-19 03:02:13

End at: 2018-06-19 03:02:43

Local clock offset: 3.488 ms

Remote clock offset: 3.104 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.28 Mbit/s

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

Loss rate: 0.16%

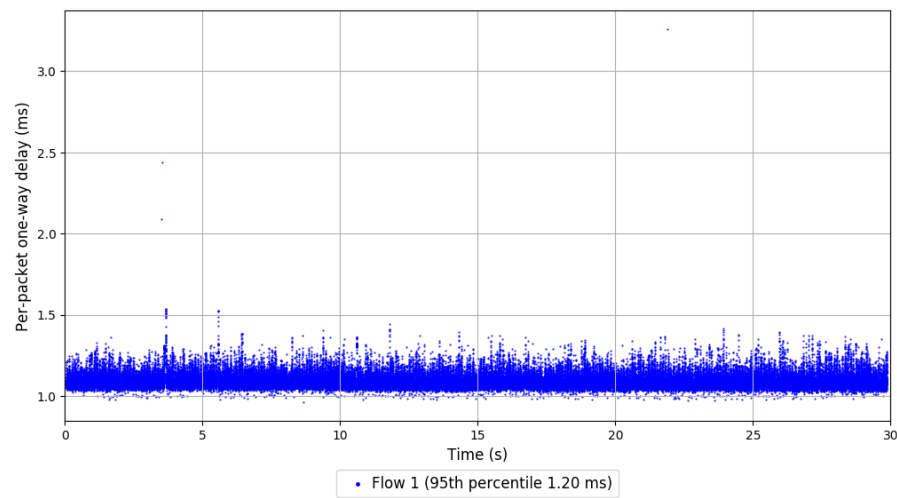
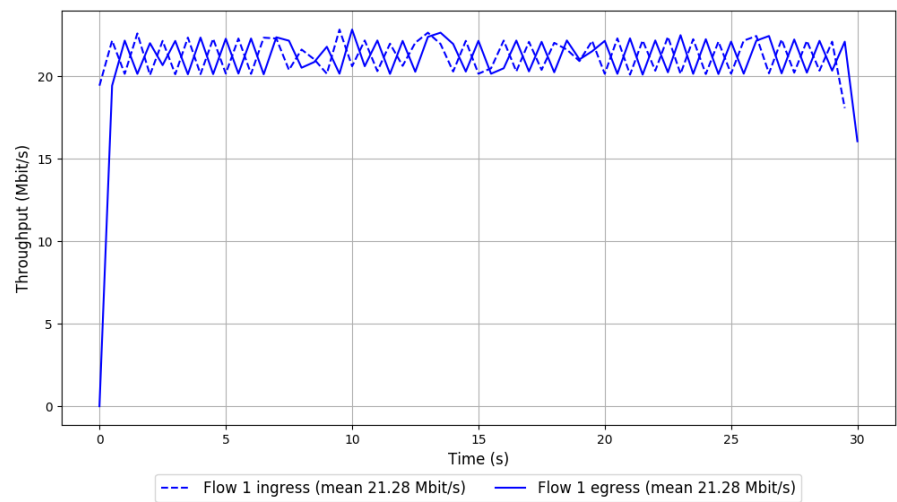
-- Flow 1:

Average throughput: 21.28 Mbit/s

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

Loss rate: 0.16%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 03:26:27

End at: 2018-06-19 03:26:57

Local clock offset: 3.361 ms

Remote clock offset: 3.289 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.49 Mbit/s

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

Loss rate: 0.14%

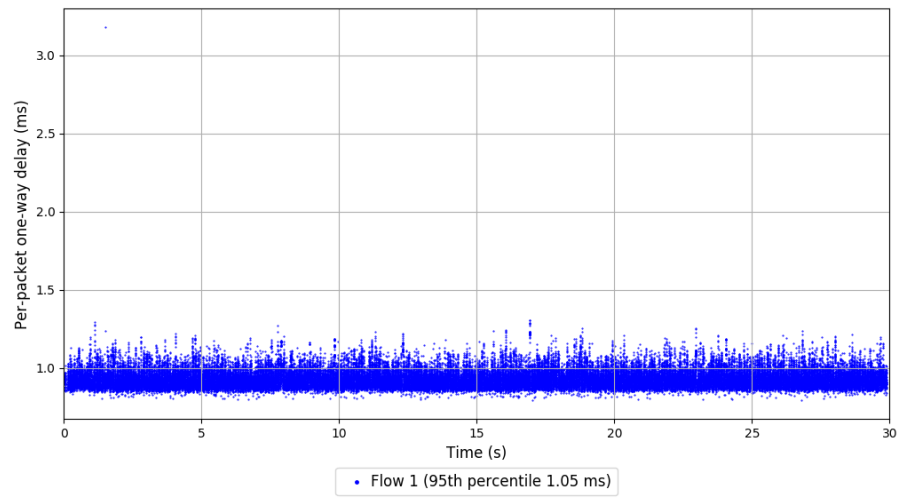
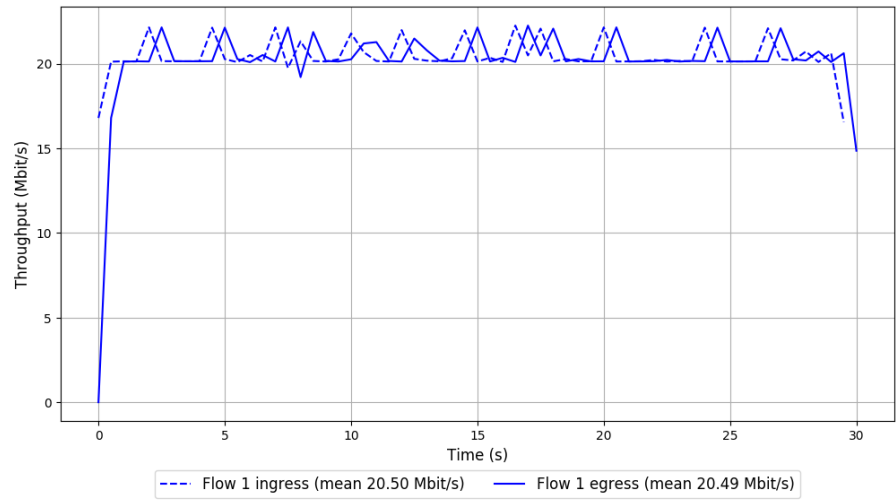
-- Flow 1:

Average throughput: 20.49 Mbit/s

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

Loss rate: 0.14%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-19 03:50:41

End at: 2018-06-19 03:51:11

Local clock offset: 3.748 ms

Remote clock offset: 3.586 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.16%

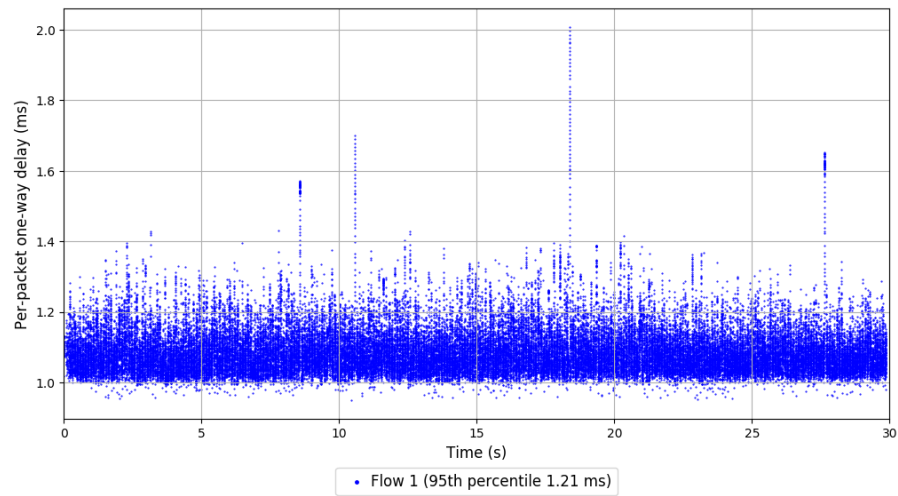
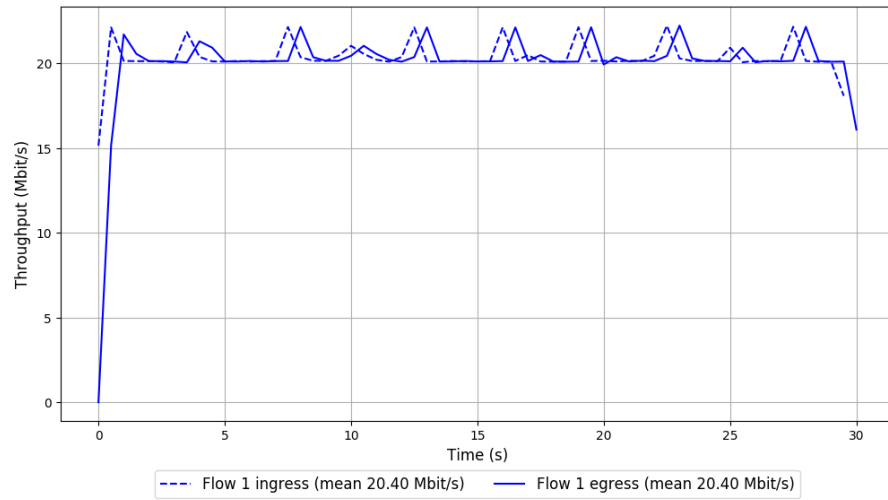
-- Flow 1:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.16%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-19 04:14:54

End at: 2018-06-19 04:15:24

Local clock offset: 3.67 ms

Remote clock offset: 0.803 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.16%

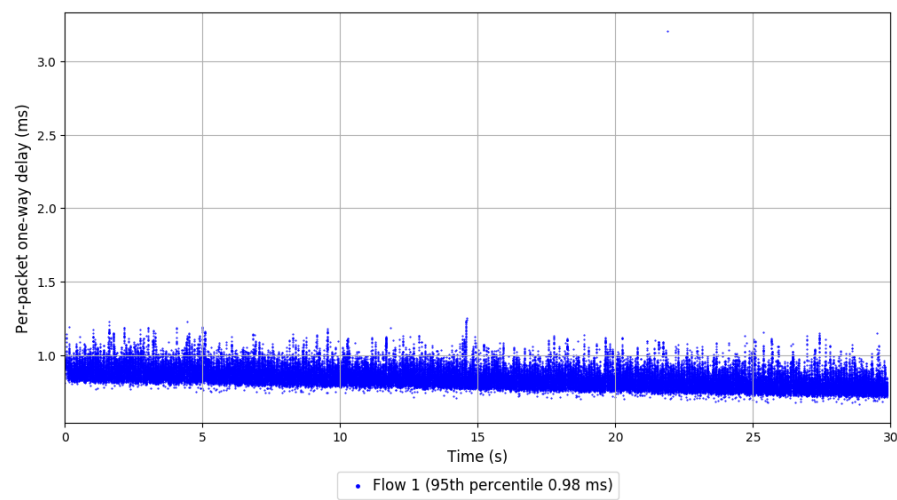
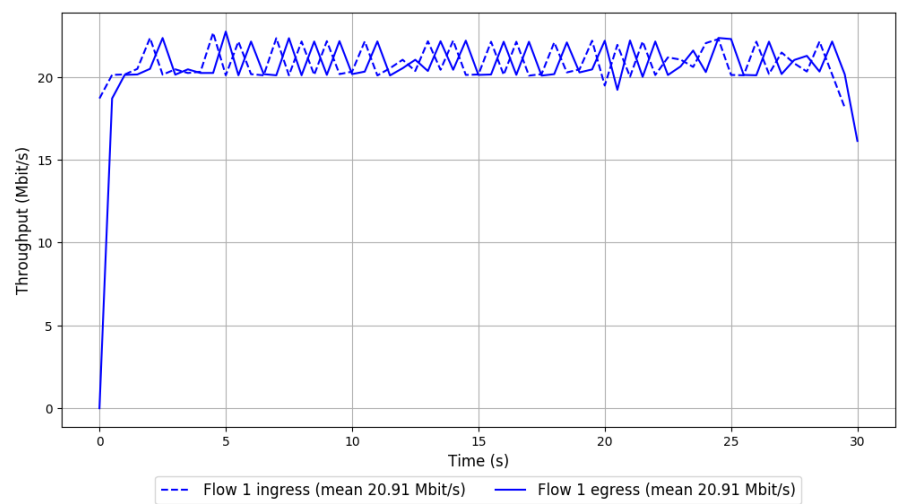
-- Flow 1:

Average throughput: 20.91 Mbit/s

95th percentile per-packet one-way delay: 0.982 ms

Loss rate: 0.16%

Run 7: Report of Sprout — Data Link

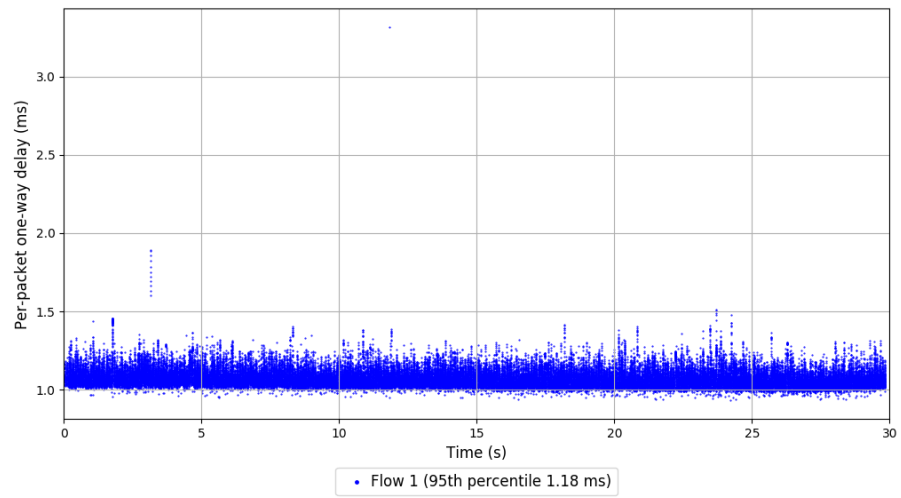
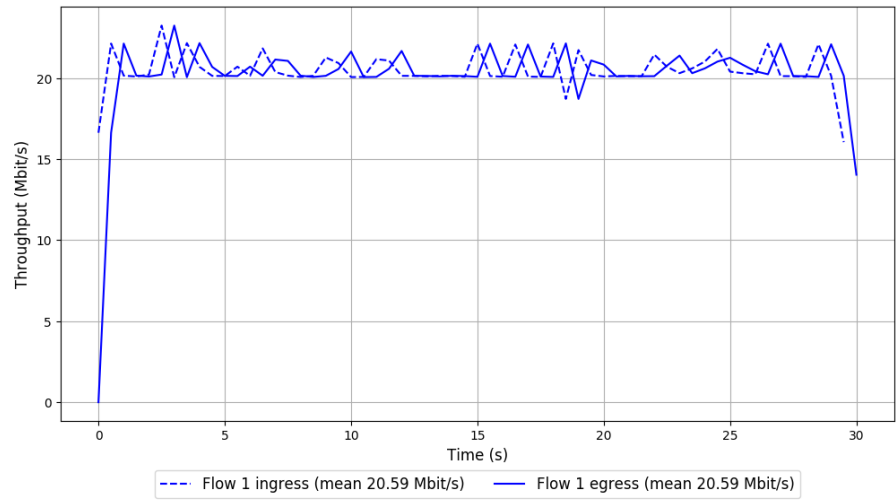


Run 8: Statistics of Sprout

Start at: 2018-06-19 04:39:10
End at: 2018-06-19 04:39:40
Local clock offset: 3.74 ms
Remote clock offset: -1.836 ms

Below is generated by plot.py at 2018-06-19 07:16:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 1.184 ms
Loss rate: 0.16%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-06-19 05:03:28

End at: 2018-06-19 05:03:58

Local clock offset: 3.706 ms

Remote clock offset: 2.763 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.51 Mbit/s

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

Loss rate: 0.00%

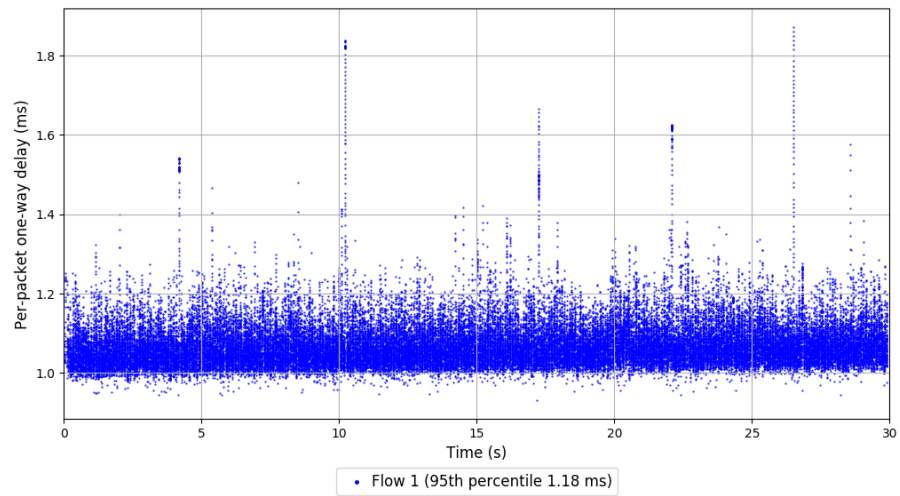
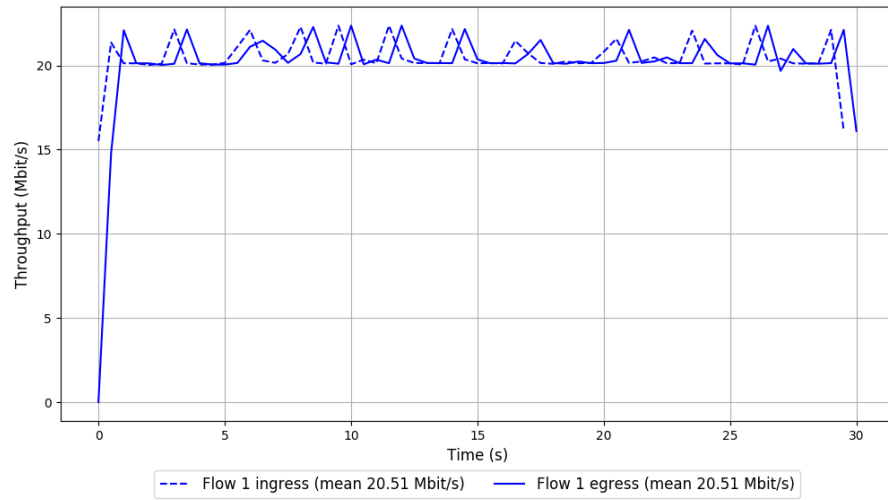
-- Flow 1:

Average throughput: 20.51 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-19 05:27:48

End at: 2018-06-19 05:28:18

Local clock offset: 3.72 ms

Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-19 07:16:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.05 Mbit/s

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

Loss rate: 0.16%

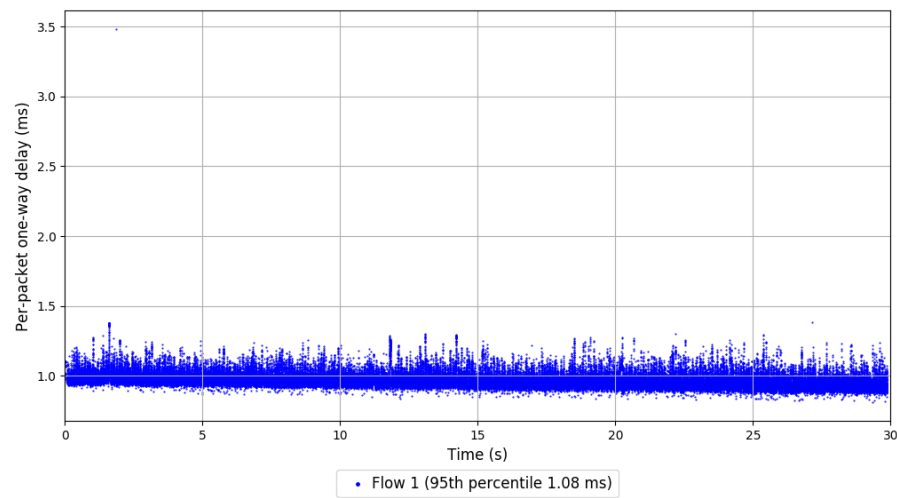
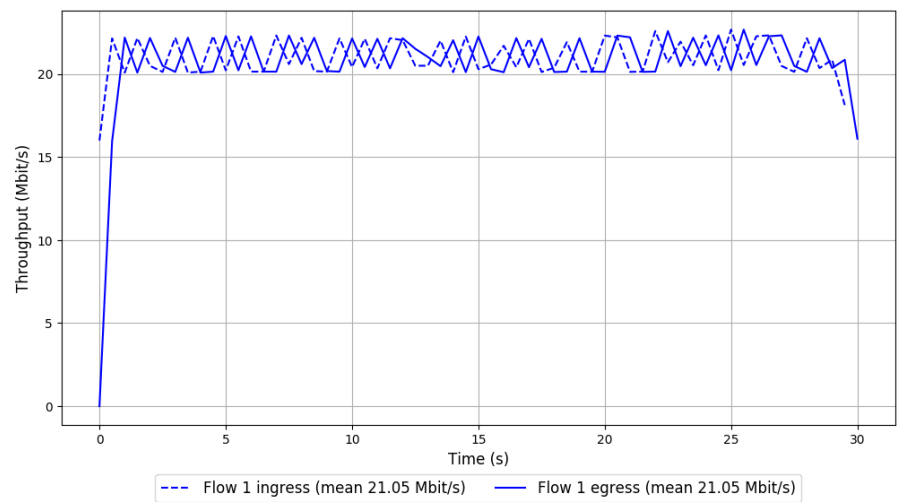
-- Flow 1:

Average throughput: 21.05 Mbit/s

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

Loss rate: 0.16%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 01:50:44

End at: 2018-06-19 01:51:14

Local clock offset: 3.604 ms

Remote clock offset: 2.754 ms

Below is generated by plot.py at 2018-06-19 07:18:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 264.35 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.07%

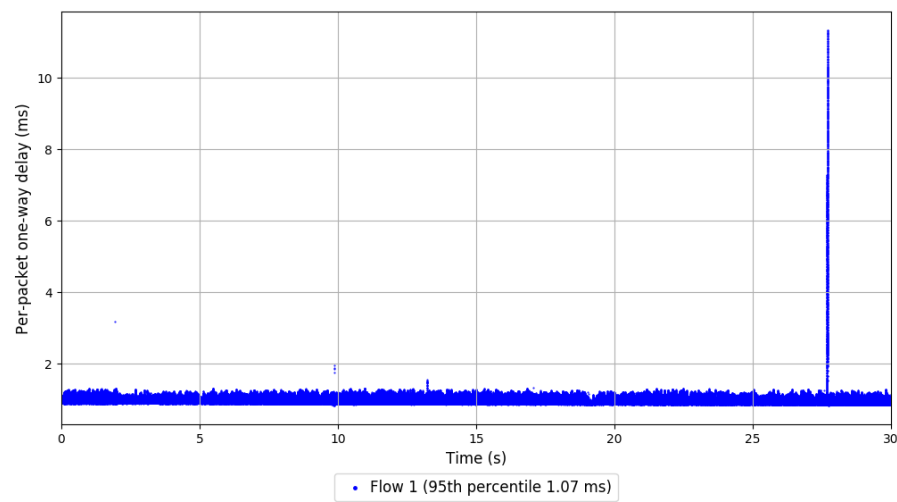
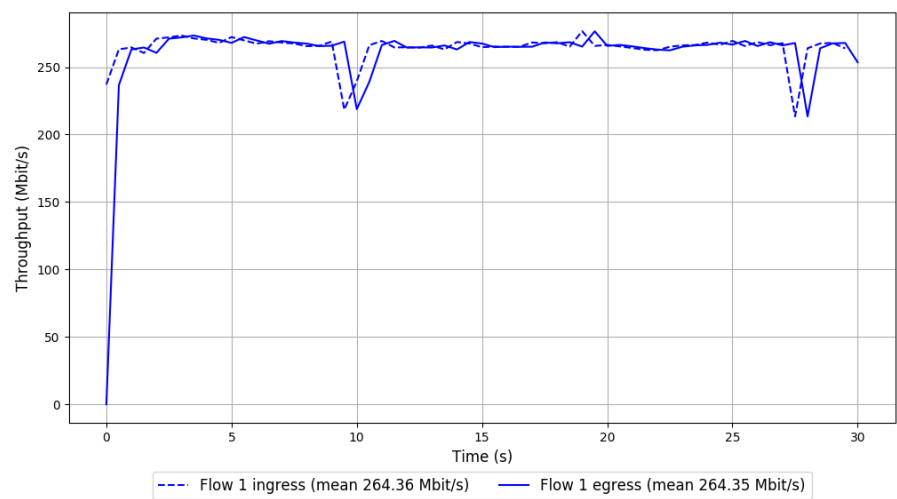
-- Flow 1:

Average throughput: 264.35 Mbit/s

95th percentile per-packet one-way delay: 1.073 ms

Loss rate: 0.07%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 02:15:02

End at: 2018-06-19 02:15:32

Local clock offset: 3.642 ms

Remote clock offset: 2.44 ms

Below is generated by plot.py at 2018-06-19 07:19:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.35 Mbit/s

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

Loss rate: 0.07%

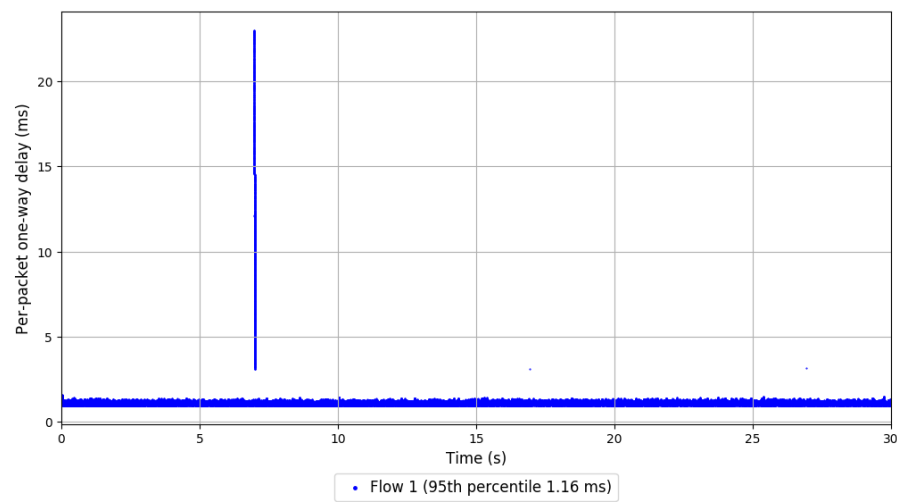
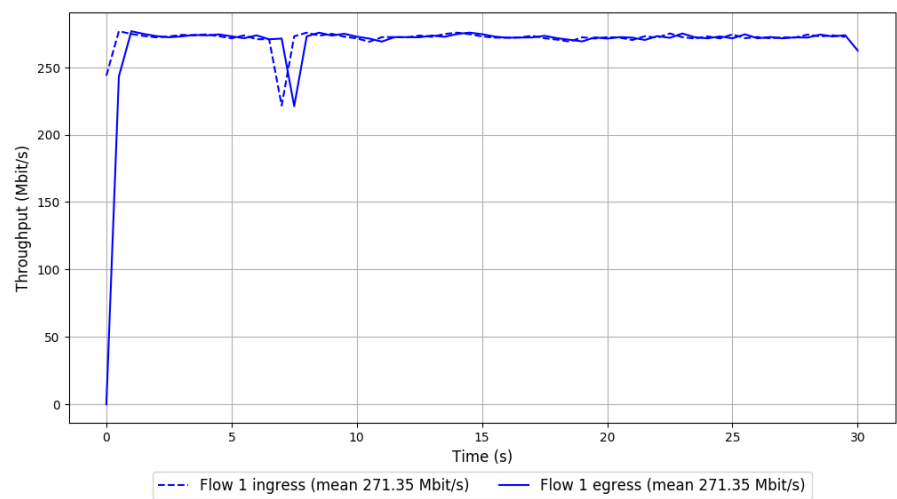
-- Flow 1:

Average throughput: 271.35 Mbit/s

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

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 02:39:12

End at: 2018-06-19 02:39:42

Local clock offset: 3.56 ms

Remote clock offset: 2.884 ms

Below is generated by plot.py at 2018-06-19 07:19:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.43 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.06%

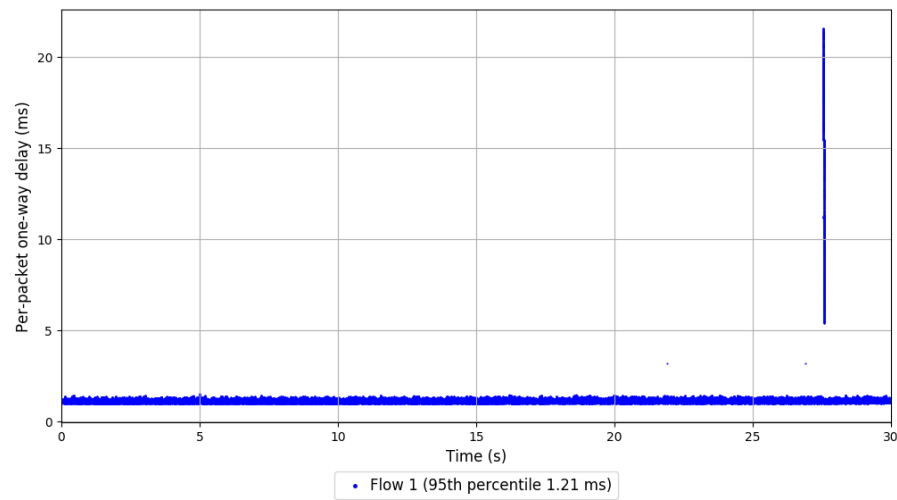
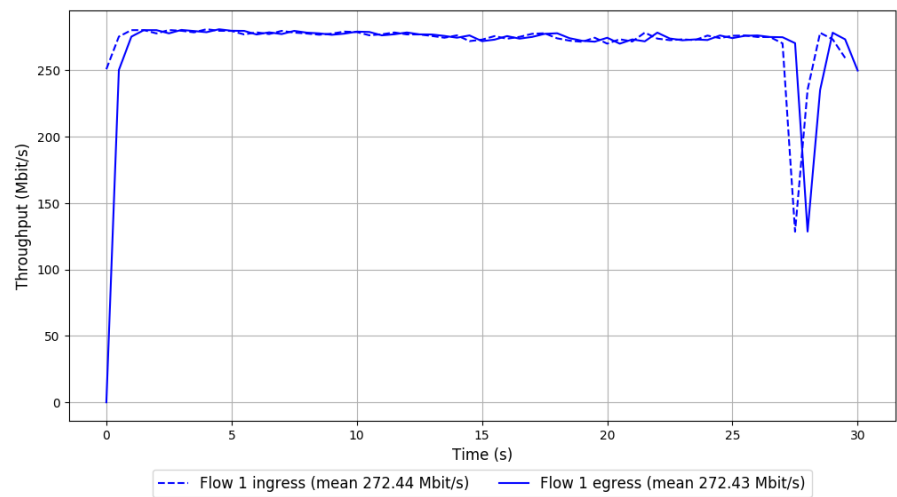
-- Flow 1:

Average throughput: 272.43 Mbit/s

95th percentile per-packet one-way delay: 1.207 ms

Loss rate: 0.06%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 03:03:31

End at: 2018-06-19 03:04:01

Local clock offset: 3.489 ms

Remote clock offset: 3.15 ms

Below is generated by plot.py at 2018-06-19 07:19:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.50 Mbit/s

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

Loss rate: 0.07%

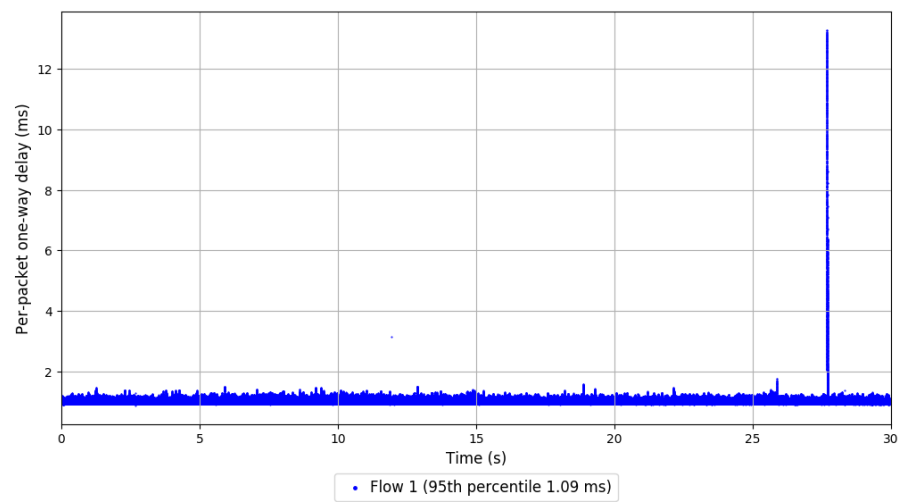
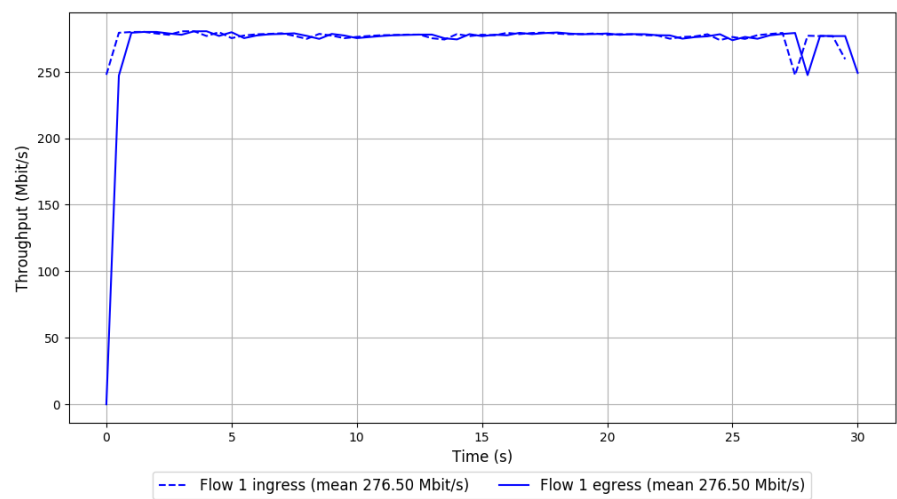
-- Flow 1:

Average throughput: 276.50 Mbit/s

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

Loss rate: 0.07%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 03:27:45

End at: 2018-06-19 03:28:15

Local clock offset: 3.459 ms

Remote clock offset: 3.192 ms

Below is generated by plot.py at 2018-06-19 07:20:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 270.72 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.07%

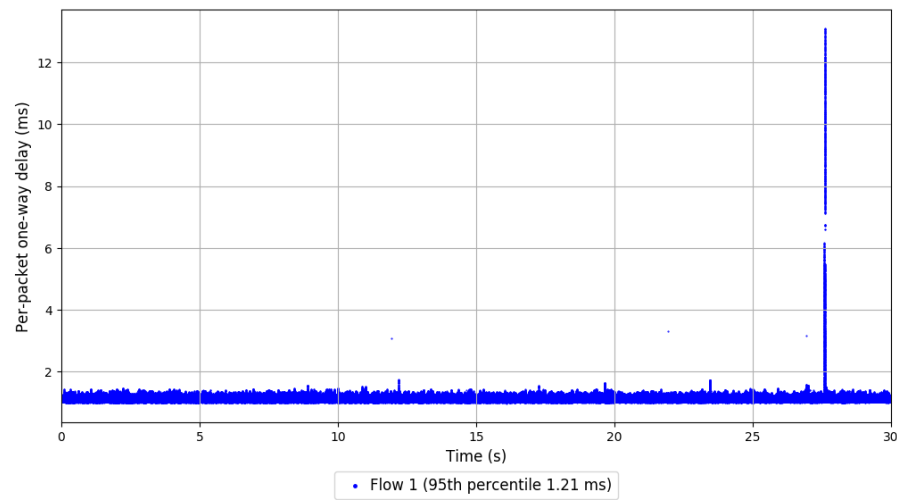
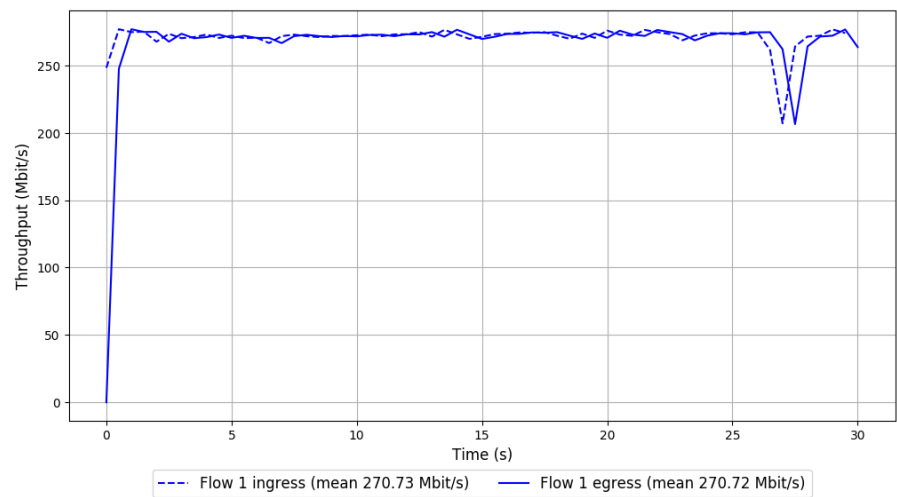
-- Flow 1:

Average throughput: 270.72 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 03:51:59

End at: 2018-06-19 03:52:29

Local clock offset: 3.756 ms

Remote clock offset: 3.555 ms

Below is generated by plot.py at 2018-06-19 07:22:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.67 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.06%

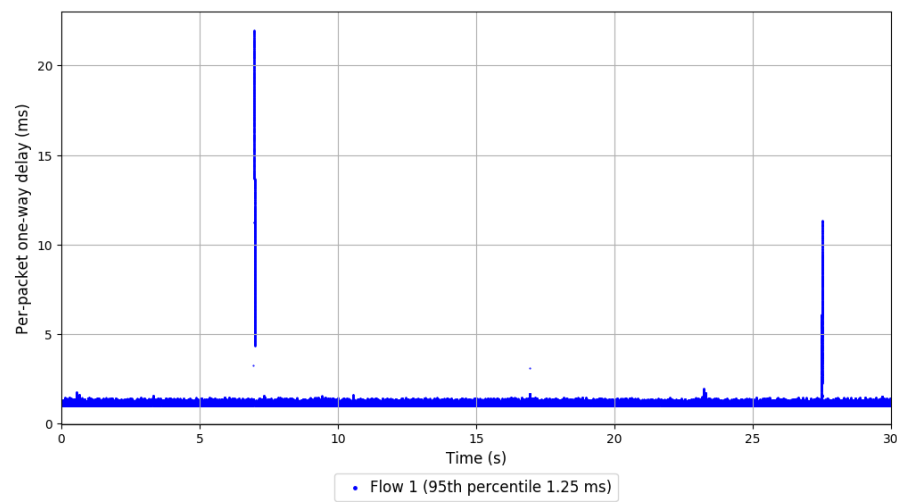
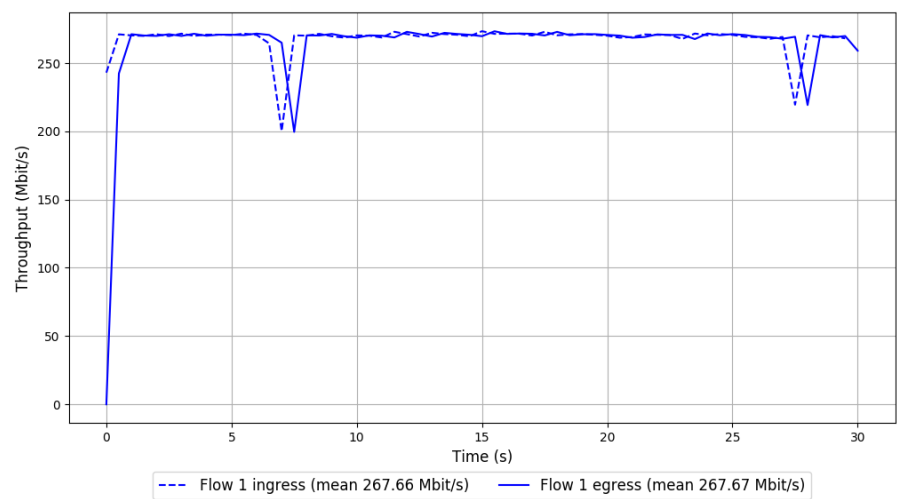
-- Flow 1:

Average throughput: 267.67 Mbit/s

95th percentile per-packet one-way delay: 1.247 ms

Loss rate: 0.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 04:16:13

End at: 2018-06-19 04:16:43

Local clock offset: 3.675 ms

Remote clock offset: 0.457 ms

Below is generated by plot.py at 2018-06-19 07:22:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.38 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.07%

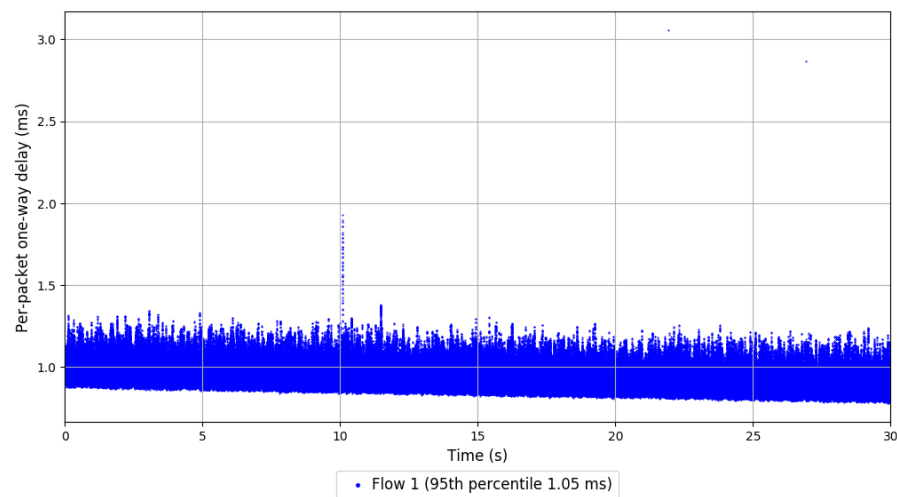
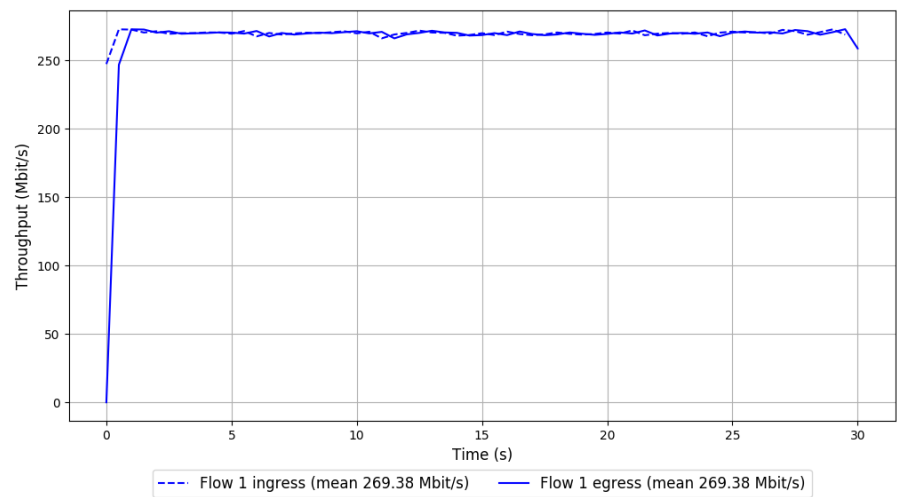
-- Flow 1:

Average throughput: 269.38 Mbit/s

95th percentile per-packet one-way delay: 1.048 ms

Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 04:40:28

End at: 2018-06-19 04:40:58

Local clock offset: 3.745 ms

Remote clock offset: -1.571 ms

Below is generated by plot.py at 2018-06-19 07:22:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.87 Mbit/s

95th percentile per-packet one-way delay: 1.520 ms

Loss rate: 0.06%

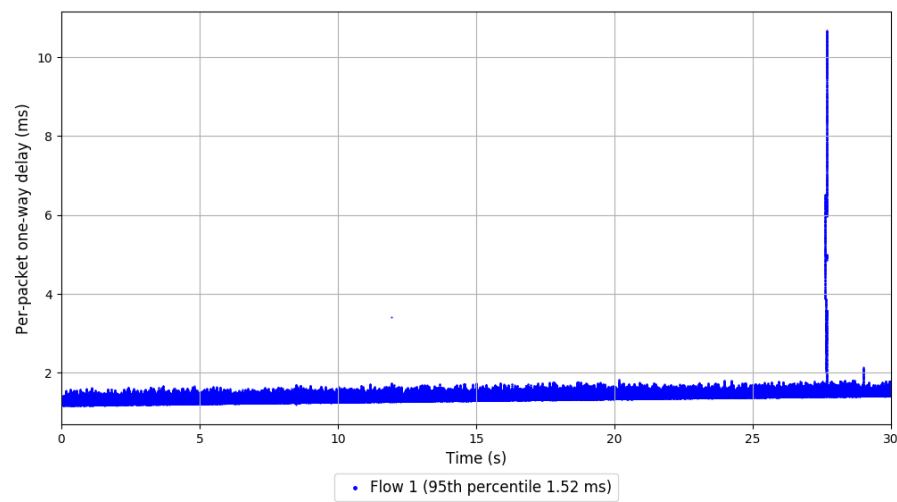
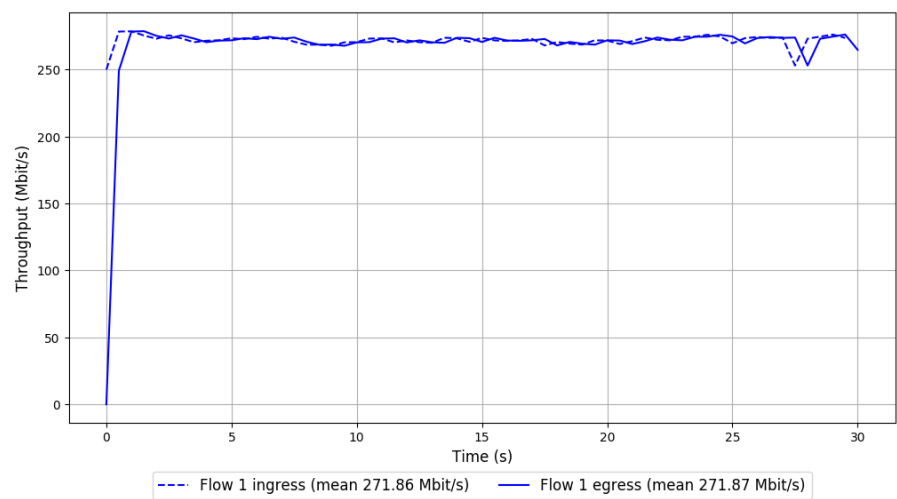
-- Flow 1:

Average throughput: 271.87 Mbit/s

95th percentile per-packet one-way delay: 1.520 ms

Loss rate: 0.06%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 05:04:47

End at: 2018-06-19 05:05:17

Local clock offset: 3.687 ms

Remote clock offset: 2.73 ms

Below is generated by plot.py at 2018-06-19 07:24:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.05 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.07%

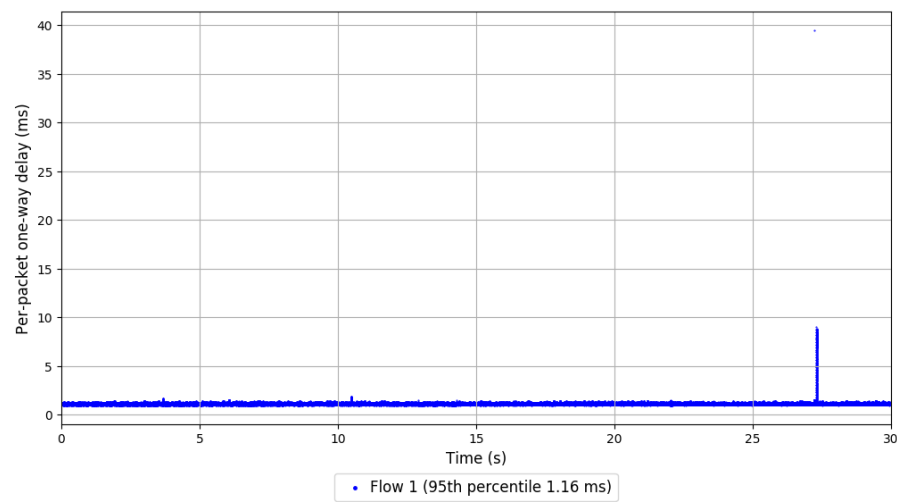
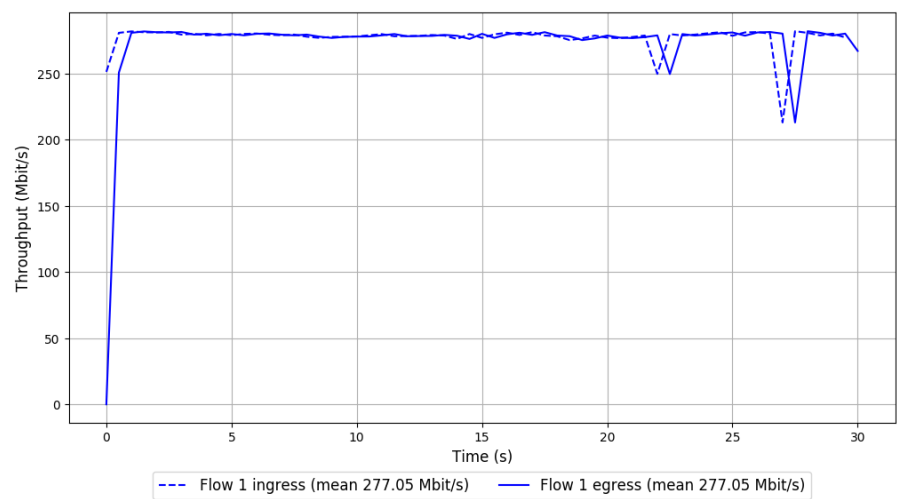
-- Flow 1:

Average throughput: 277.05 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.07%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 05:29:06

End at: 2018-06-19 05:29:36

Local clock offset: 3.719 ms

Remote clock offset: -0.346 ms

Below is generated by plot.py at 2018-06-19 07:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.33 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.06%

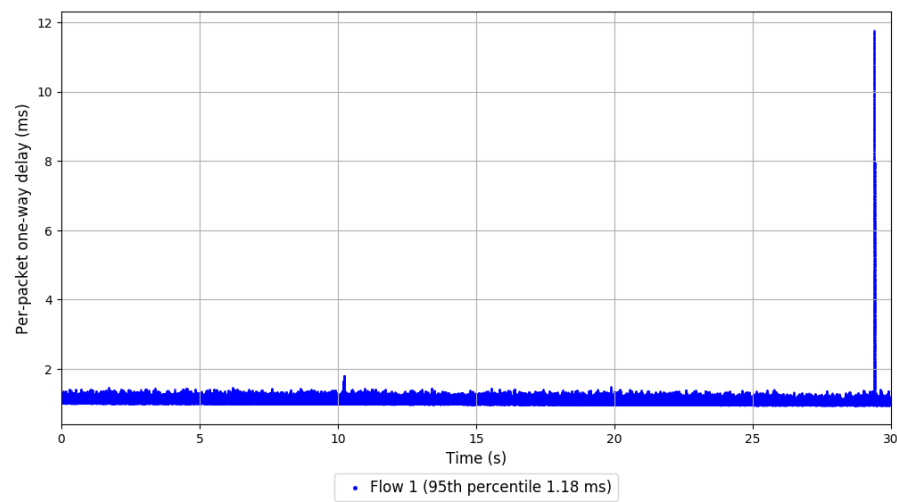
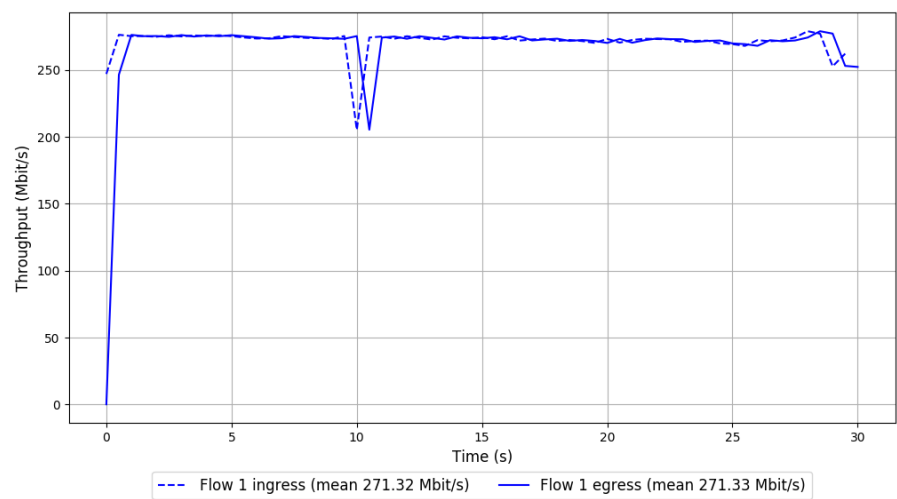
-- Flow 1:

Average throughput: 271.33 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.06%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 01:45:04

End at: 2018-06-19 01:45:34

Local clock offset: 3.58 ms

Remote clock offset: 2.937 ms

Below is generated by plot.py at 2018-06-19 07:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 243.09 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.07%

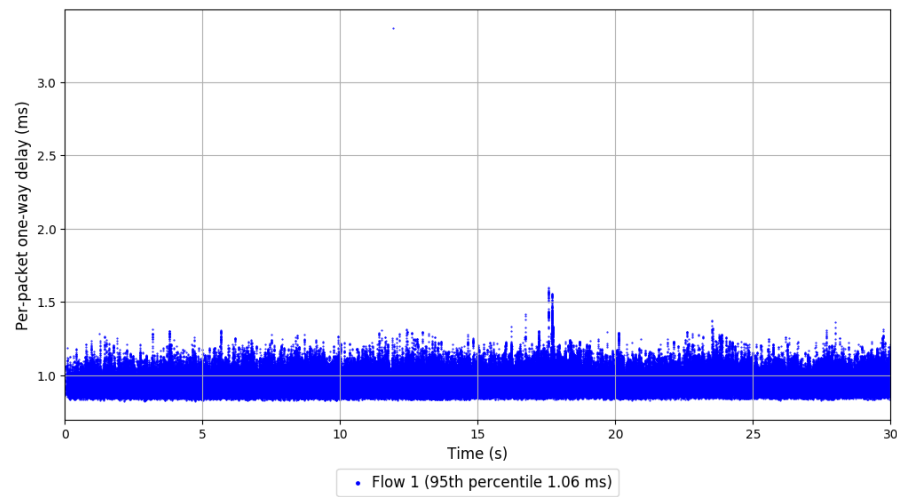
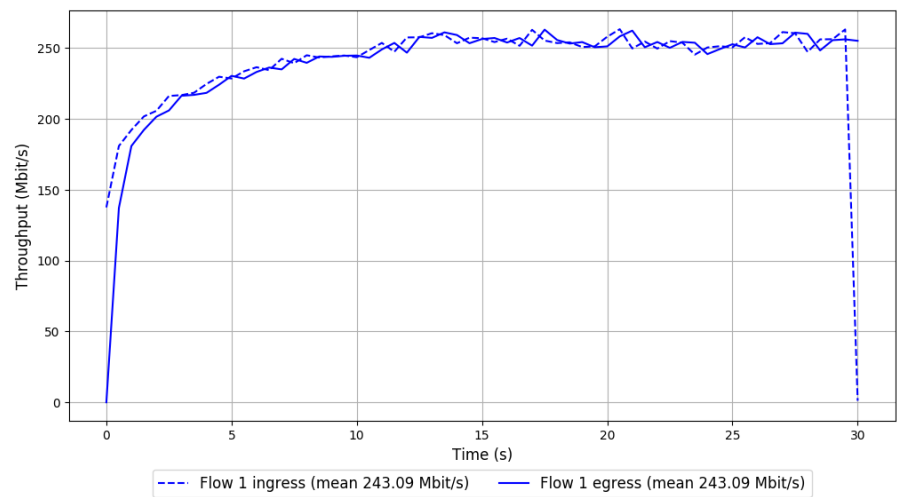
-- Flow 1:

Average throughput: 243.09 Mbit/s

95th percentile per-packet one-way delay: 1.065 ms

Loss rate: 0.07%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 02:09:24

End at: 2018-06-19 02:09:54

Local clock offset: 3.659 ms

Remote clock offset: 2.444 ms

Below is generated by plot.py at 2018-06-19 07:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.41 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.02%

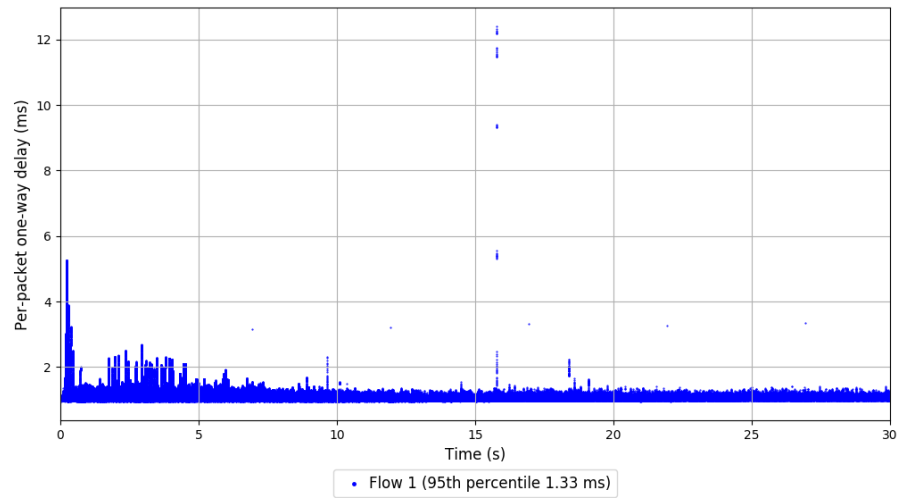
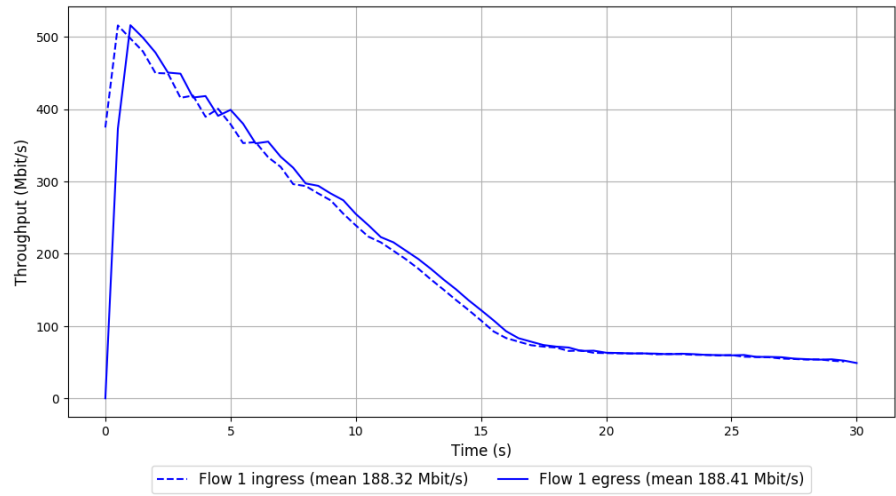
-- Flow 1:

Average throughput: 188.41 Mbit/s

95th percentile per-packet one-way delay: 1.330 ms

Loss rate: 0.02%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 02:33:34

End at: 2018-06-19 02:34:04

Local clock offset: 3.532 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-06-19 07:24:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.41 Mbit/s

95th percentile per-packet one-way delay: 1.463 ms

Loss rate: 0.01%

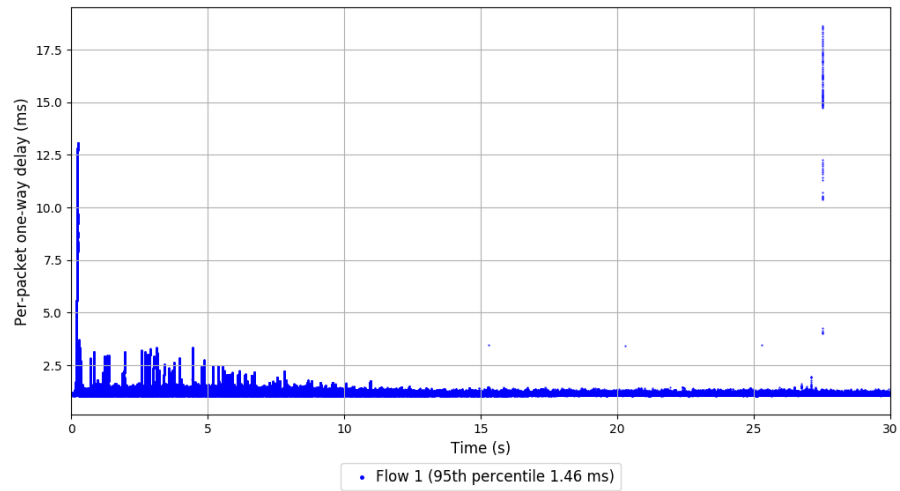
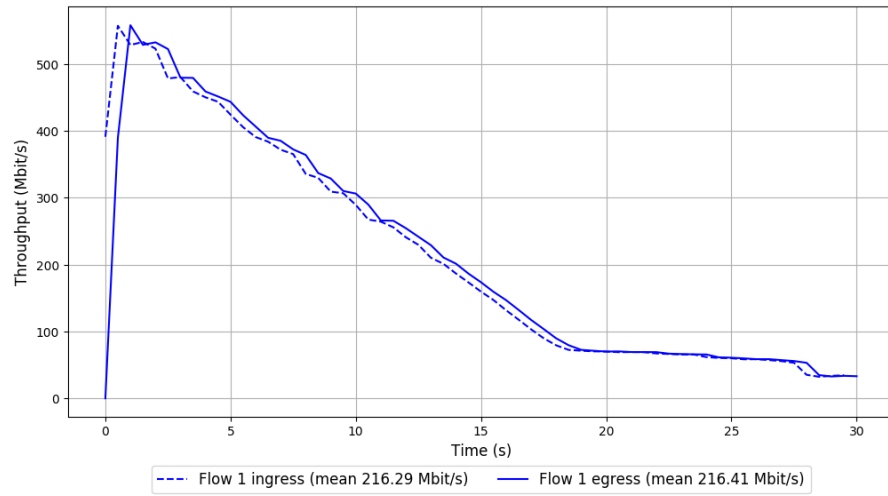
-- Flow 1:

Average throughput: 216.41 Mbit/s

95th percentile per-packet one-way delay: 1.463 ms

Loss rate: 0.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 02:57:50

End at: 2018-06-19 02:58:20

Local clock offset: 3.519 ms

Remote clock offset: 3.254 ms

Below is generated by plot.py at 2018-06-19 07:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.58 Mbit/s

95th percentile per-packet one-way delay: 1.327 ms

Loss rate: 0.05%

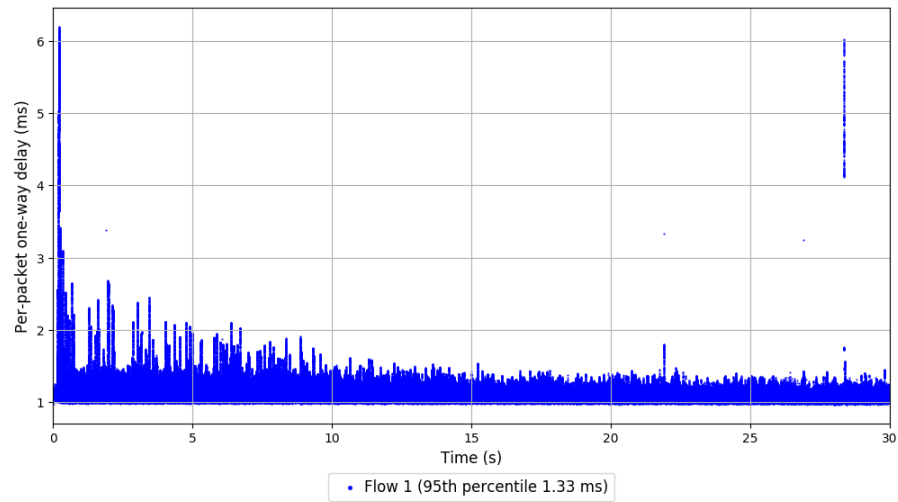
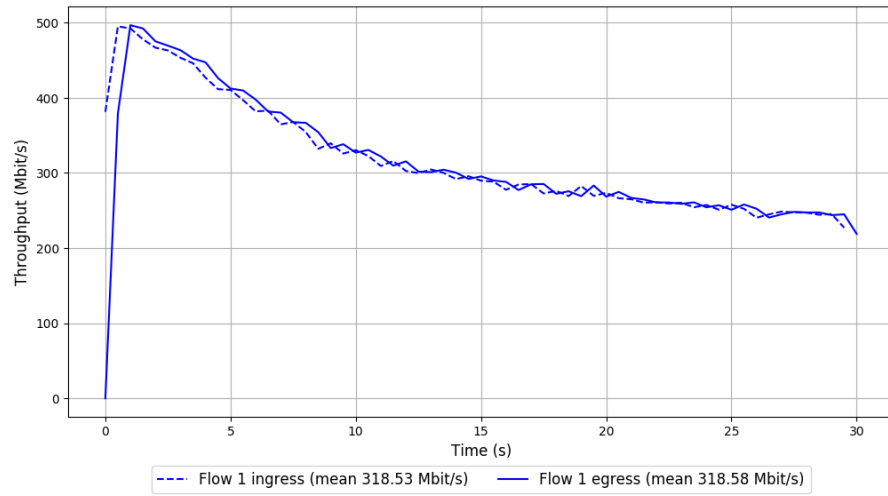
-- Flow 1:

Average throughput: 318.58 Mbit/s

95th percentile per-packet one-way delay: 1.327 ms

Loss rate: 0.05%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 03:22:07

End at: 2018-06-19 03:22:37

Local clock offset: 3.463 ms

Remote clock offset: 3.212 ms

Below is generated by plot.py at 2018-06-19 07:25:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.90 Mbit/s

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

Loss rate: 0.02%

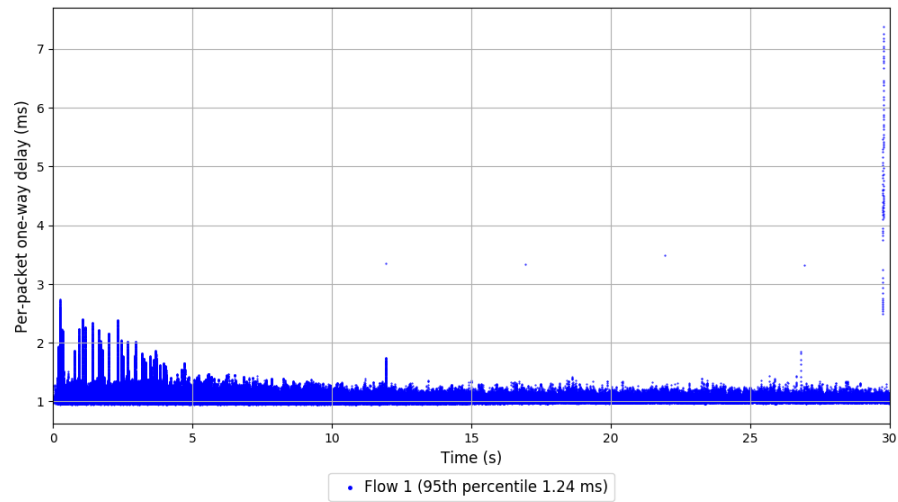
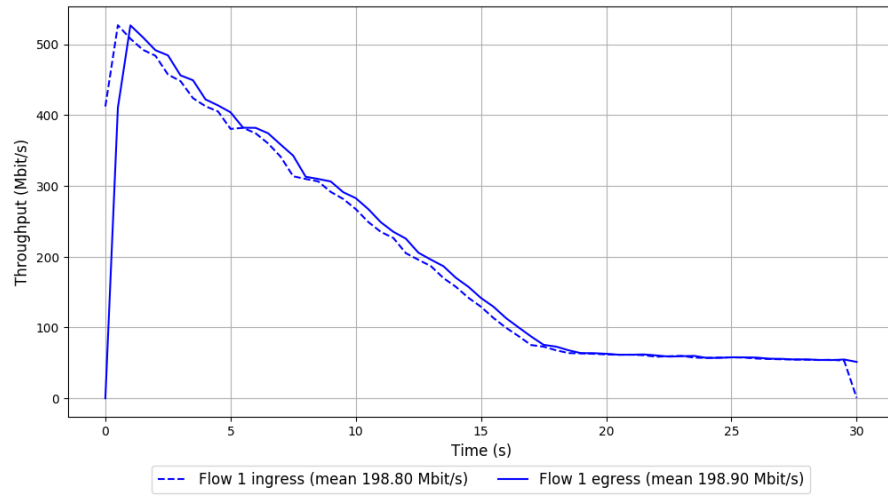
-- Flow 1:

Average throughput: 198.90 Mbit/s

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

Loss rate: 0.02%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 03:46:20

End at: 2018-06-19 03:46:50

Local clock offset: 3.725 ms

Remote clock offset: 3.557 ms

Below is generated by plot.py at 2018-06-19 07:25:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.05 Mbit/s

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

Loss rate: 0.07%

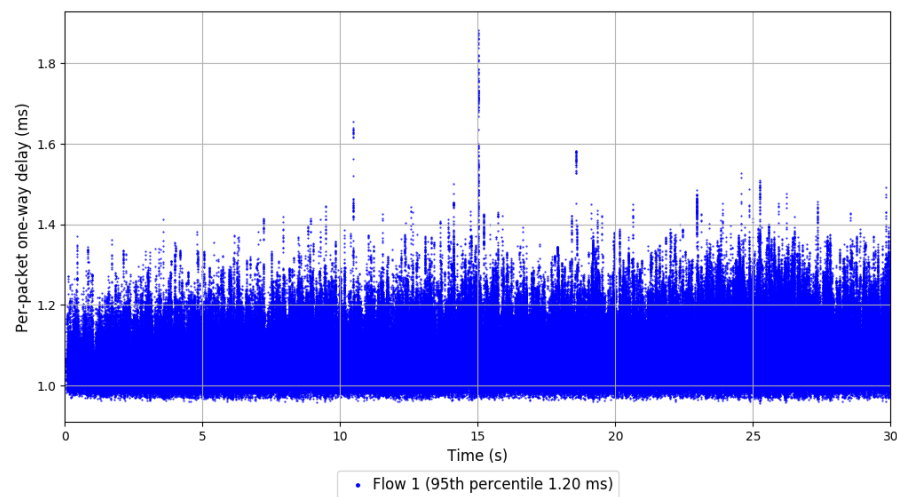
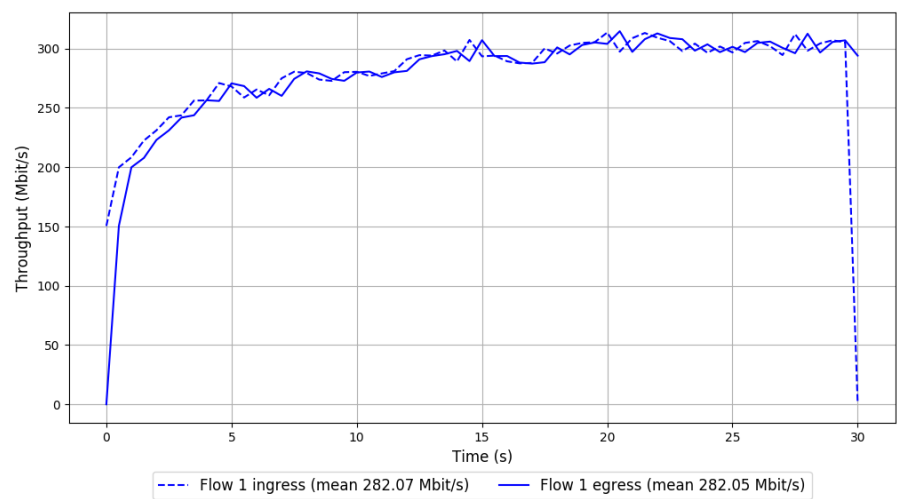
-- Flow 1:

Average throughput: 282.05 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 04:10:30

End at: 2018-06-19 04:11:00

Local clock offset: 3.757 ms

Remote clock offset: 1.874 ms

Below is generated by plot.py at 2018-06-19 07:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.22 Mbit/s

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

Loss rate: 0.07%

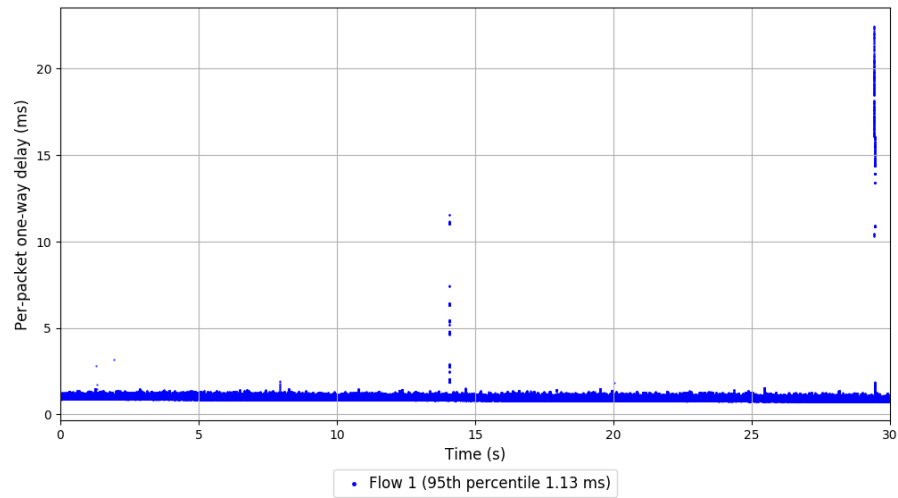
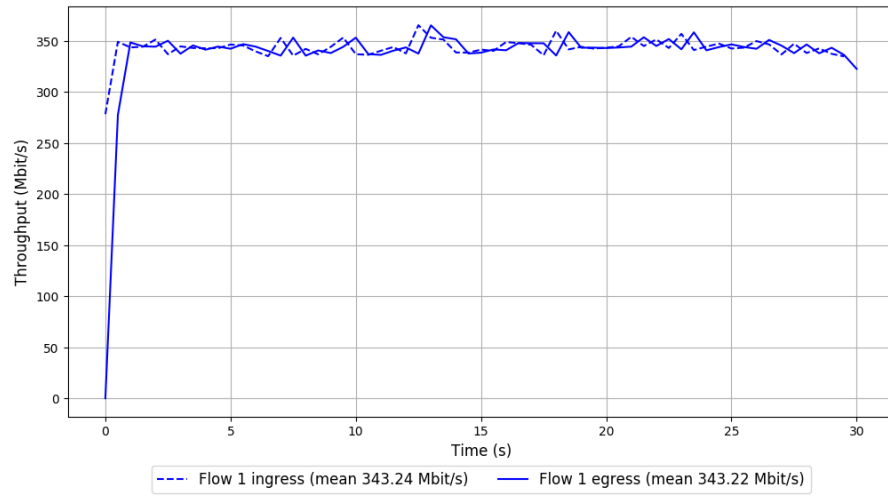
-- Flow 1:

Average throughput: 343.22 Mbit/s

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

Loss rate: 0.07%

Run 7: Report of TCP Vegas — Data Link

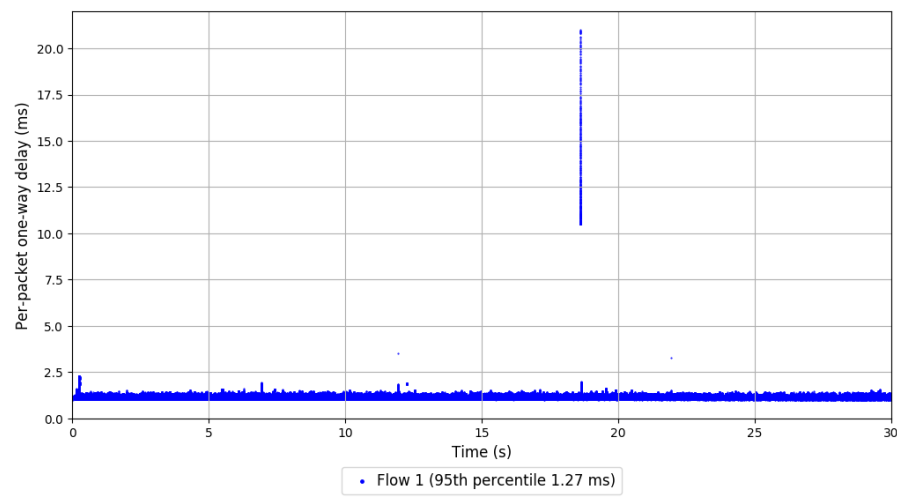
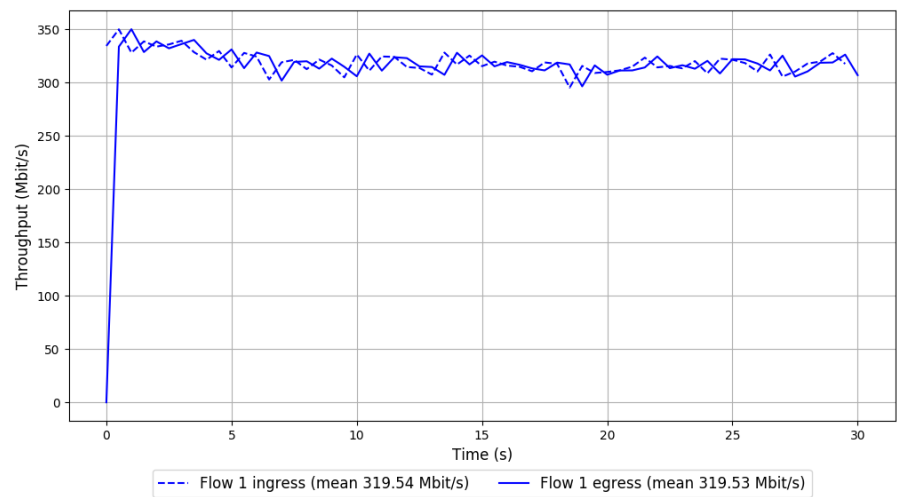


Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 04:34:45
End at: 2018-06-19 04:35:15
Local clock offset: 3.78 ms
Remote clock offset: -1.547 ms

Below is generated by plot.py at 2018-06-19 07:26:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 319.53 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 319.53 Mbit/s
95th percentile per-packet one-way delay: 1.268 ms
Loss rate: 0.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 04:59:05

End at: 2018-06-19 04:59:35

Local clock offset: 3.711 ms

Remote clock offset: 2.457 ms

Below is generated by plot.py at 2018-06-19 07:27:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.54 Mbit/s

95th percentile per-packet one-way delay: 1.272 ms

Loss rate: 0.07%

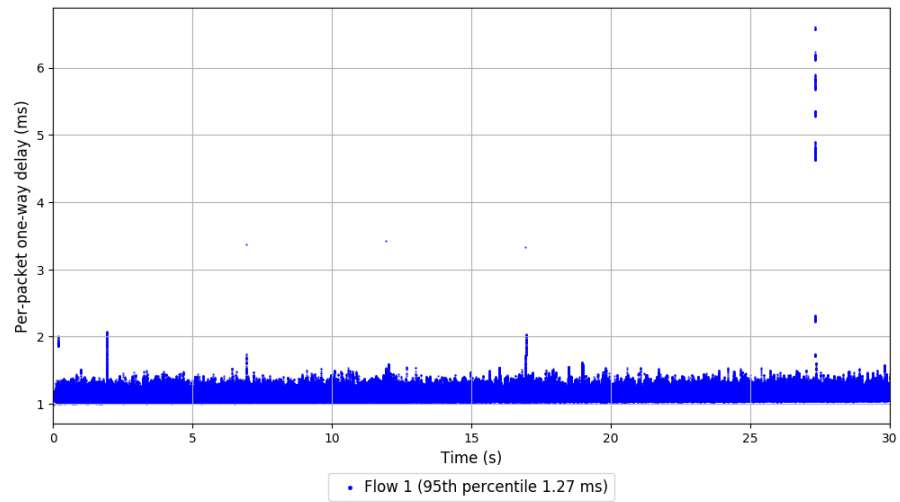
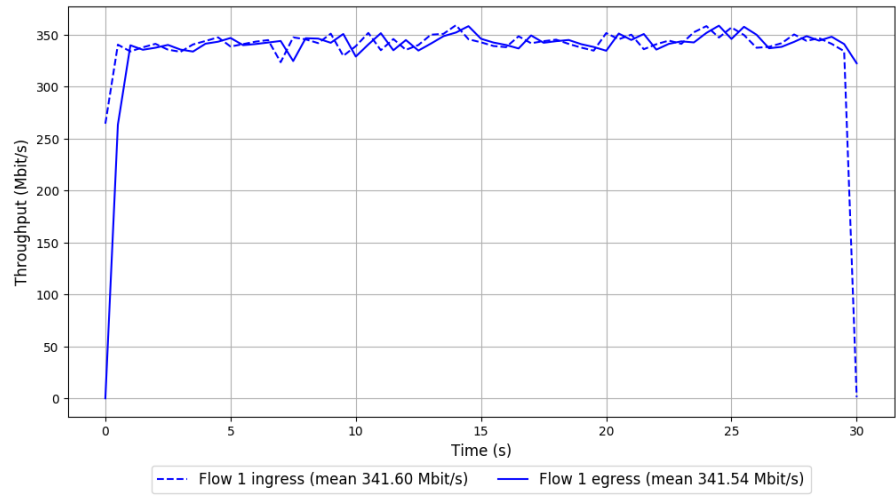
-- Flow 1:

Average throughput: 341.54 Mbit/s

95th percentile per-packet one-way delay: 1.272 ms

Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 05:23:24

End at: 2018-06-19 05:23:54

Local clock offset: 3.633 ms

Remote clock offset: 0.483 ms

Below is generated by plot.py at 2018-06-19 07:27:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.22 Mbit/s

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

Loss rate: 0.07%

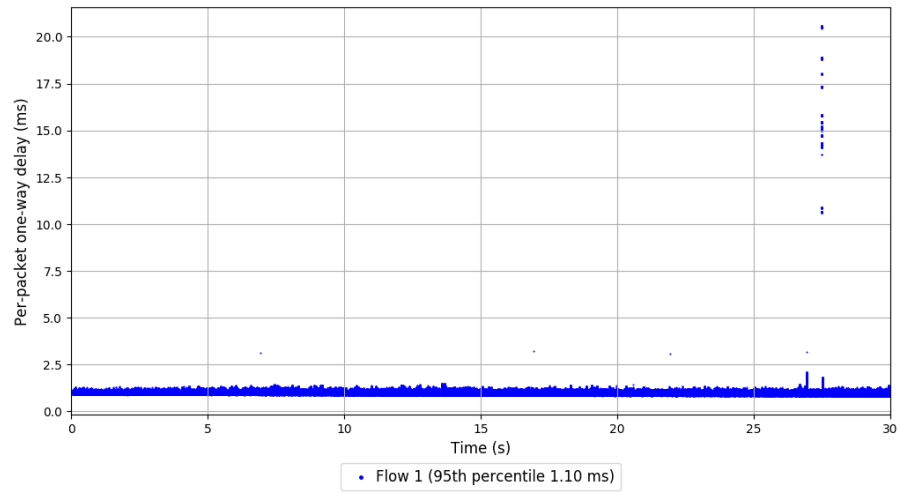
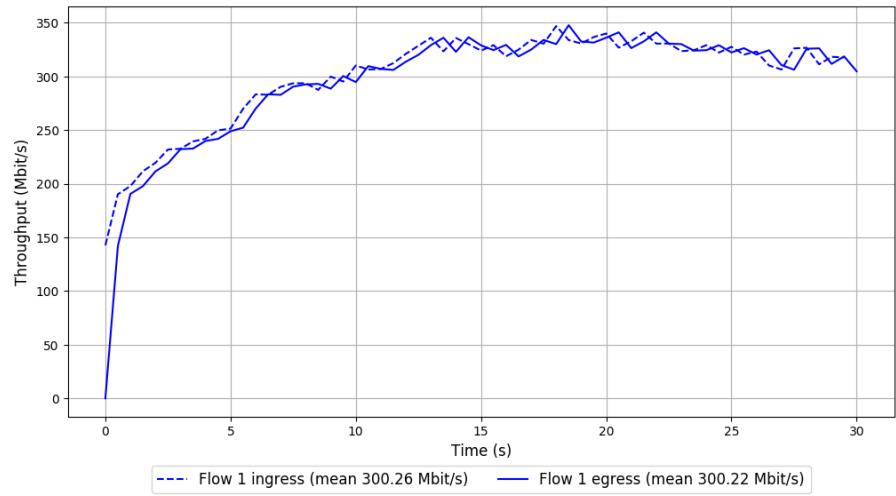
-- Flow 1:

Average throughput: 300.22 Mbit/s

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

Loss rate: 0.07%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-19 01:43:30

End at: 2018-06-19 01:44:00

Local clock offset: 3.647 ms

Remote clock offset: 2.809 ms

Below is generated by plot.py at 2018-06-19 07:29:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 376.06 Mbit/s

95th percentile per-packet one-way delay: 4.292 ms

Loss rate: 0.15%

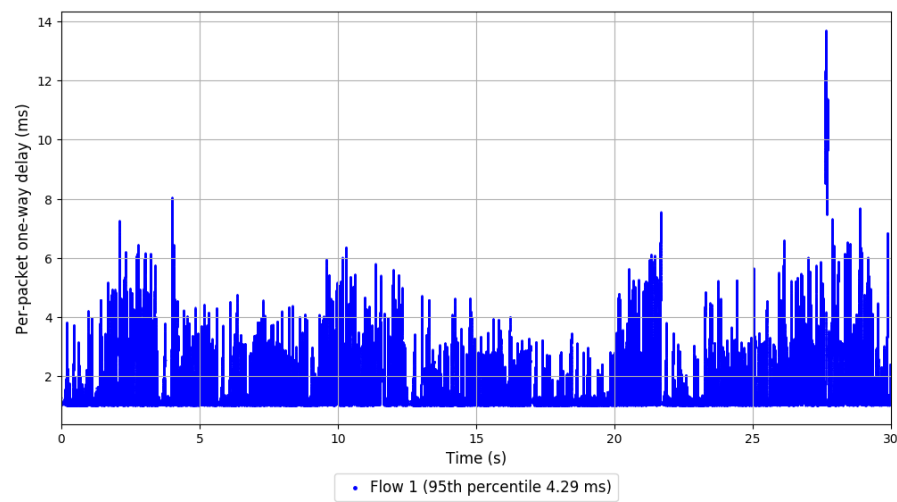
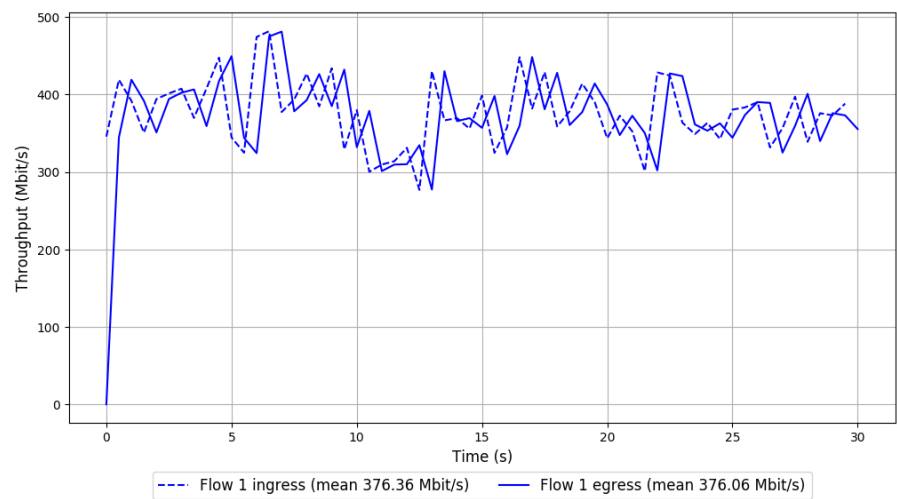
-- Flow 1:

Average throughput: 376.06 Mbit/s

95th percentile per-packet one-way delay: 4.292 ms

Loss rate: 0.15%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-19 02:07:50

End at: 2018-06-19 02:08:20

Local clock offset: 3.688 ms

Remote clock offset: 2.439 ms

Below is generated by plot.py at 2018-06-19 07:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.19 Mbit/s

95th percentile per-packet one-way delay: 4.627 ms

Loss rate: 0.08%

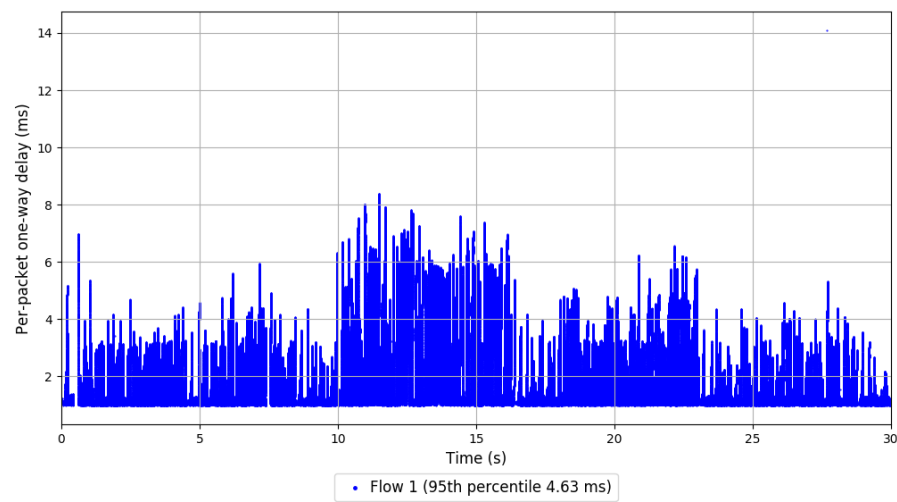
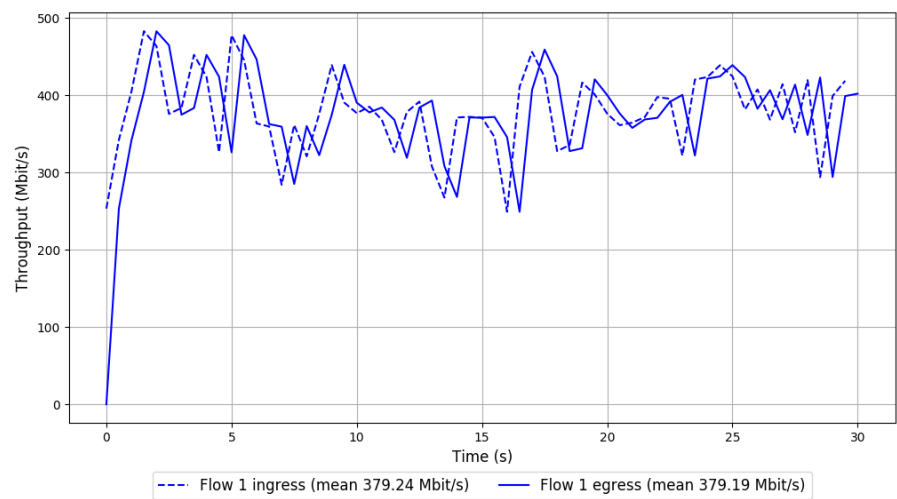
-- Flow 1:

Average throughput: 379.19 Mbit/s

95th percentile per-packet one-way delay: 4.627 ms

Loss rate: 0.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-19 02:32:05

End at: 2018-06-19 02:32:35

Local clock offset: 3.469 ms

Remote clock offset: 2.767 ms

Below is generated by plot.py at 2018-06-19 07:29:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.10 Mbit/s

95th percentile per-packet one-way delay: 7.639 ms

Loss rate: 0.02%

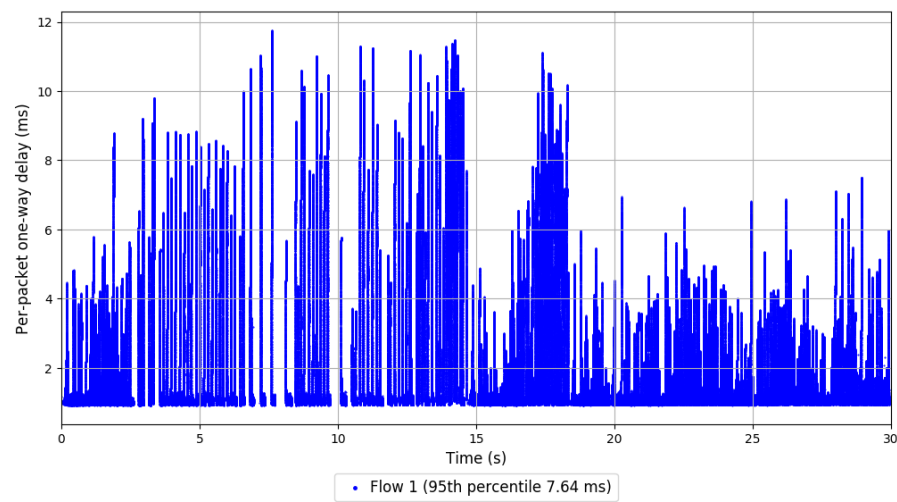
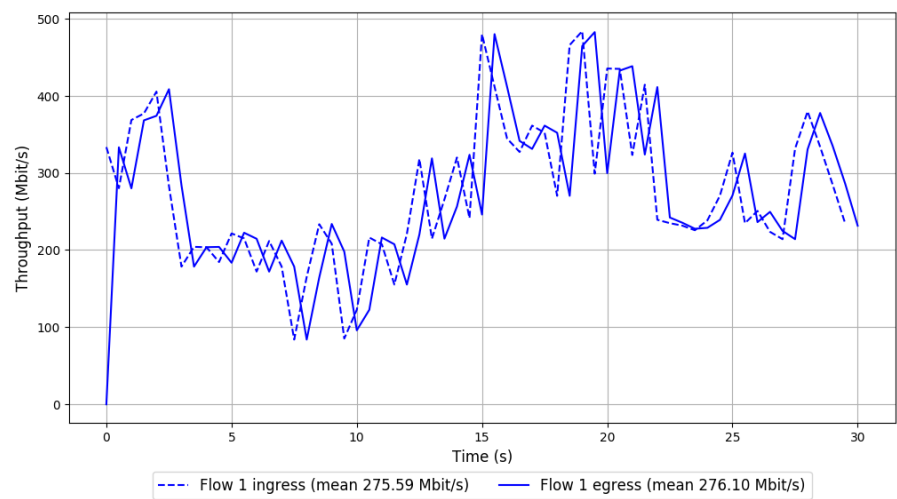
-- Flow 1:

Average throughput: 276.10 Mbit/s

95th percentile per-packet one-way delay: 7.639 ms

Loss rate: 0.02%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-19 02:56:16

End at: 2018-06-19 02:56:46

Local clock offset: 3.442 ms

Remote clock offset: 3.257 ms

Below is generated by plot.py at 2018-06-19 07:30:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.93 Mbit/s

95th percentile per-packet one-way delay: 5.315 ms

Loss rate: 0.08%

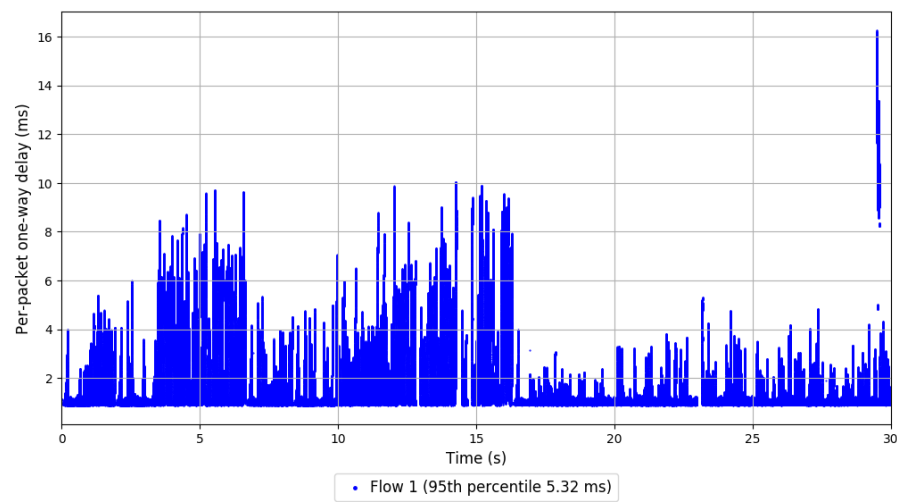
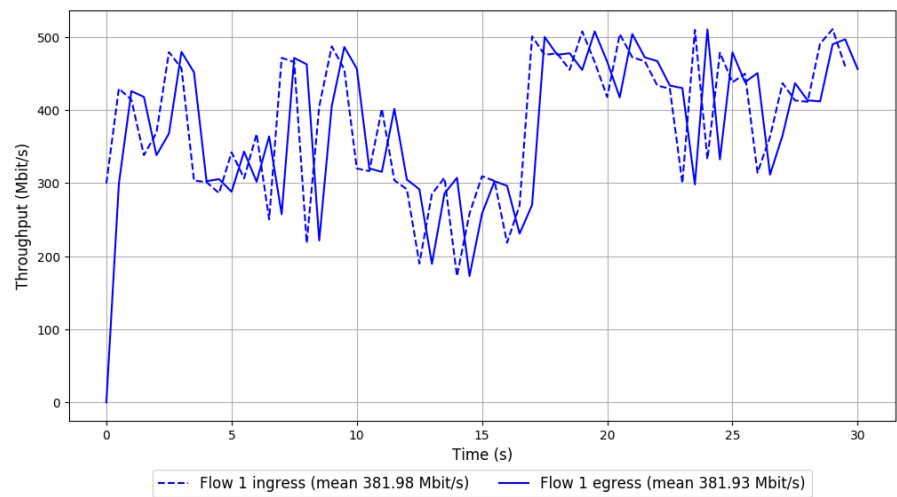
-- Flow 1:

Average throughput: 381.93 Mbit/s

95th percentile per-packet one-way delay: 5.315 ms

Loss rate: 0.08%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-19 03:20:37

End at: 2018-06-19 03:21:07

Local clock offset: 3.439 ms

Remote clock offset: 3.14 ms

Below is generated by plot.py at 2018-06-19 07:30:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.57 Mbit/s

95th percentile per-packet one-way delay: 5.087 ms

Loss rate: 0.07%

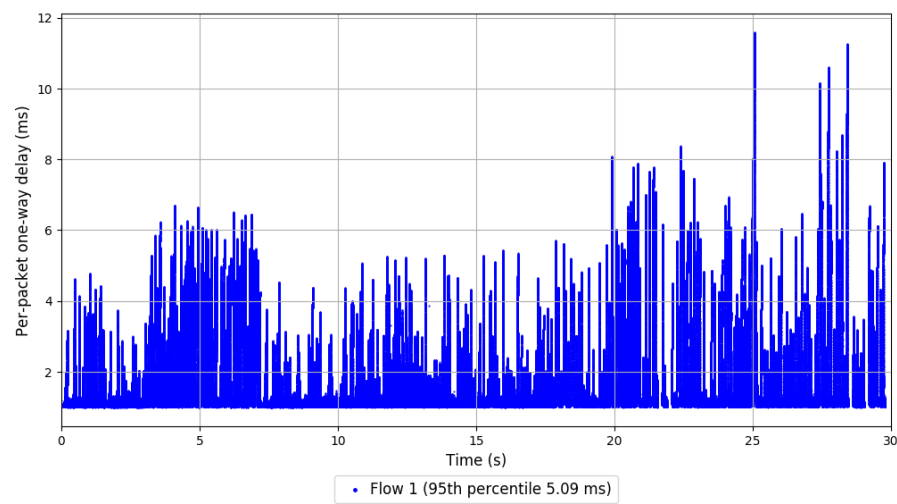
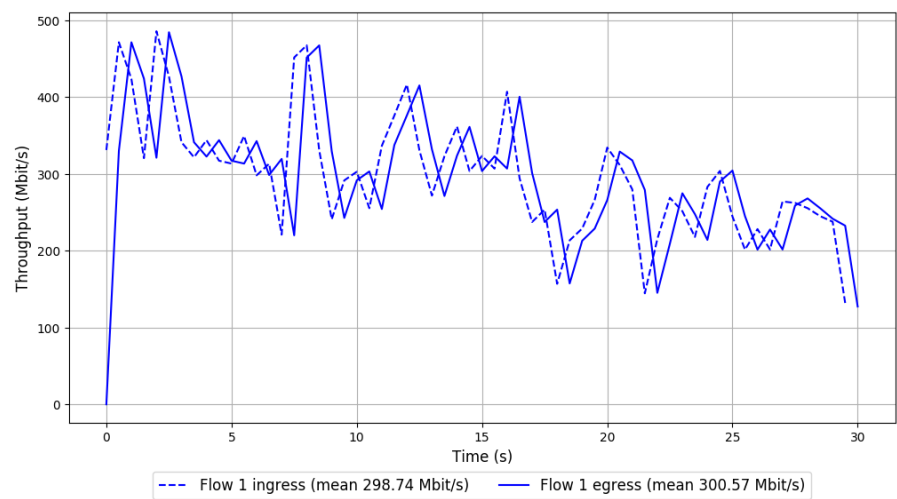
-- Flow 1:

Average throughput: 300.57 Mbit/s

95th percentile per-packet one-way delay: 5.087 ms

Loss rate: 0.07%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-19 03:44:49

End at: 2018-06-19 03:45:19

Local clock offset: 3.605 ms

Remote clock offset: 3.532 ms

Below is generated by plot.py at 2018-06-19 07:30:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 319.48 Mbit/s

95th percentile per-packet one-way delay: 9.461 ms

Loss rate: 0.05%

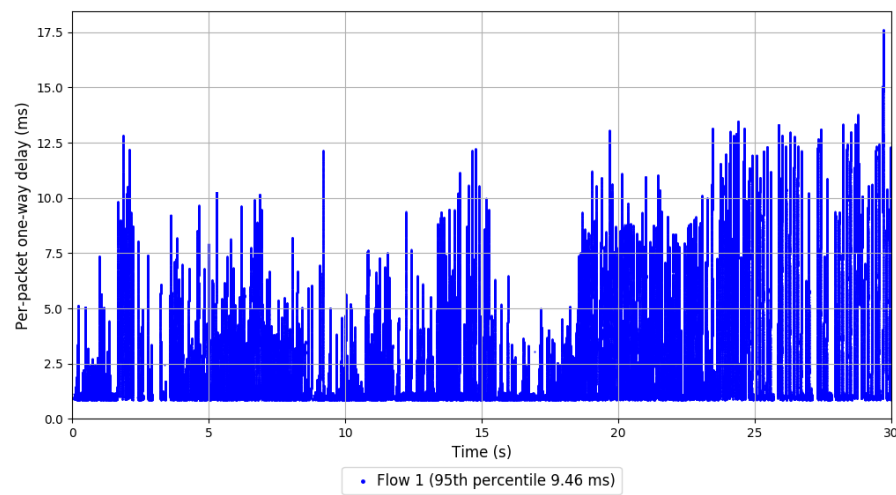
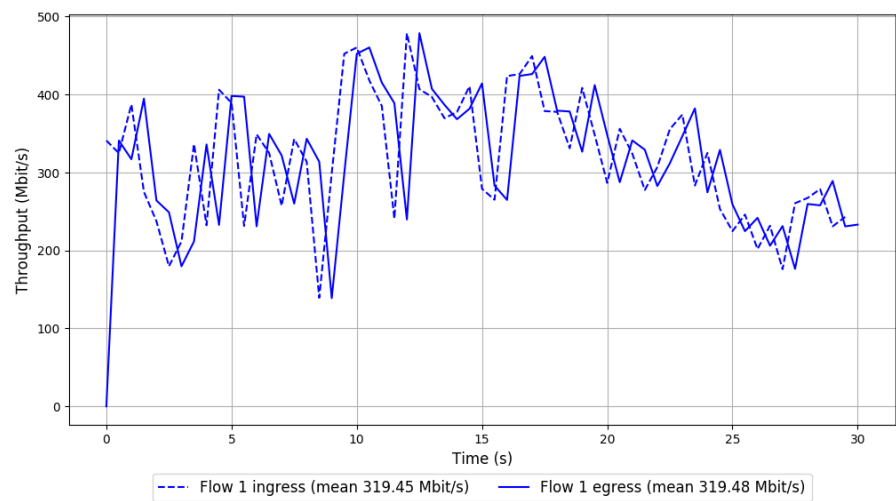
-- Flow 1:

Average throughput: 319.48 Mbit/s

95th percentile per-packet one-way delay: 9.461 ms

Loss rate: 0.05%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-19 04:08:58

End at: 2018-06-19 04:09:28

Local clock offset: 3.682 ms

Remote clock offset: 2.395 ms

Below is generated by plot.py at 2018-06-19 07:31:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.65 Mbit/s

95th percentile per-packet one-way delay: 5.042 ms

Loss rate: 0.08%

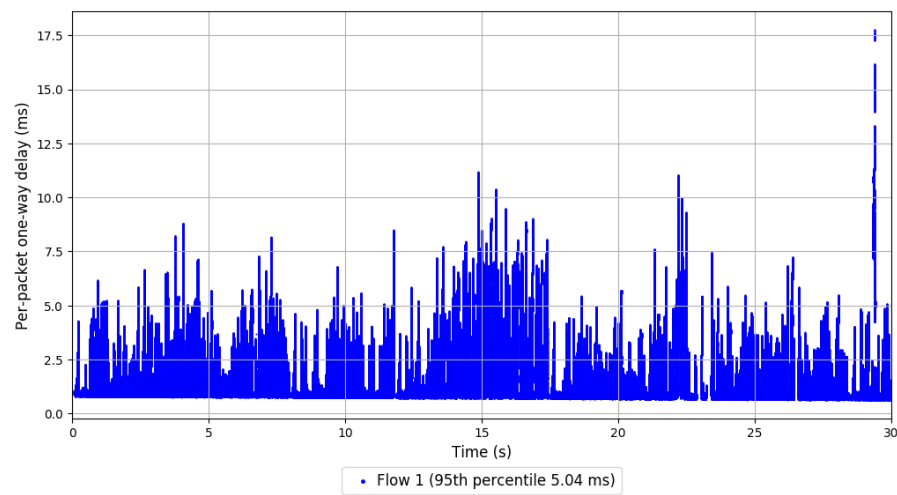
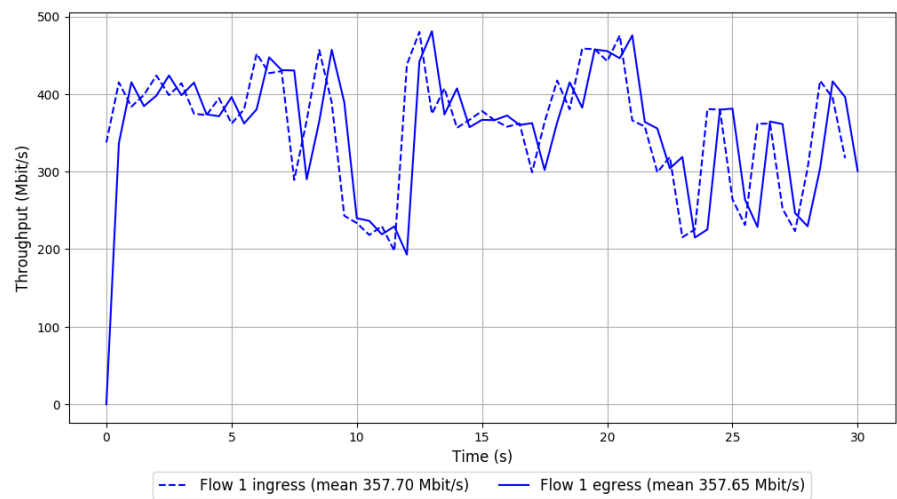
-- Flow 1:

Average throughput: 357.65 Mbit/s

95th percentile per-packet one-way delay: 5.042 ms

Loss rate: 0.08%

Run 7: Report of Verus — Data Link

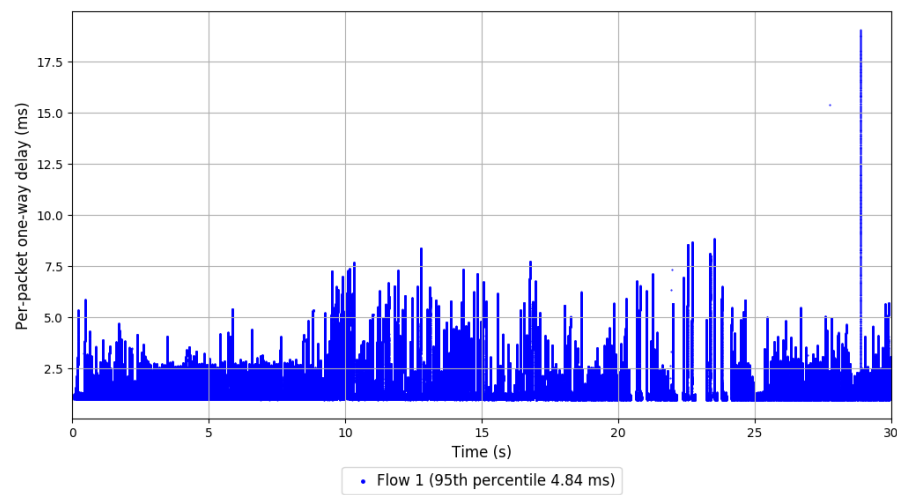
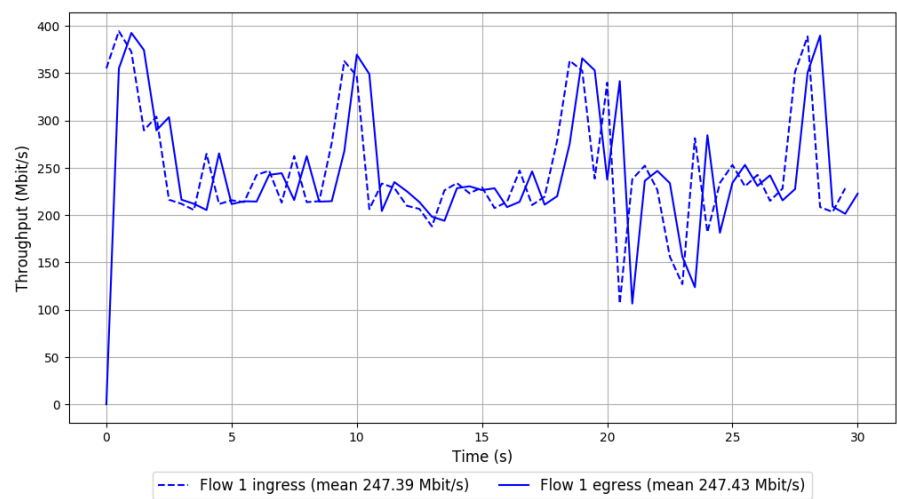


Run 8: Statistics of Verus

Start at: 2018-06-19 04:33:17
End at: 2018-06-19 04:33:47
Local clock offset: 3.781 ms
Remote clock offset: -1.413 ms

Below is generated by plot.py at 2018-06-19 07:31:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 247.43 Mbit/s
95th percentile per-packet one-way delay: 4.845 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 247.43 Mbit/s
95th percentile per-packet one-way delay: 4.845 ms
Loss rate: 0.05%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-19 04:57:34

End at: 2018-06-19 04:58:04

Local clock offset: 3.7 ms

Remote clock offset: 2.391 ms

Below is generated by plot.py at 2018-06-19 07:32:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 313.25 Mbit/s

95th percentile per-packet one-way delay: 6.434 ms

Loss rate: 0.13%

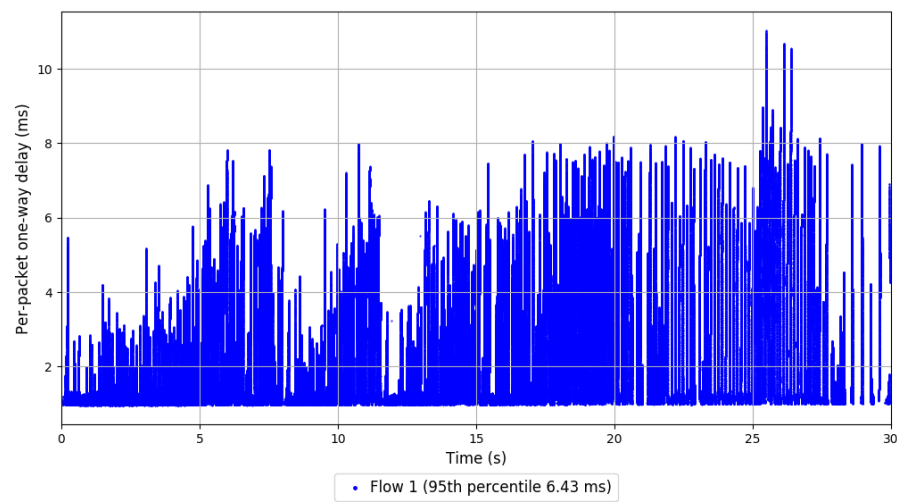
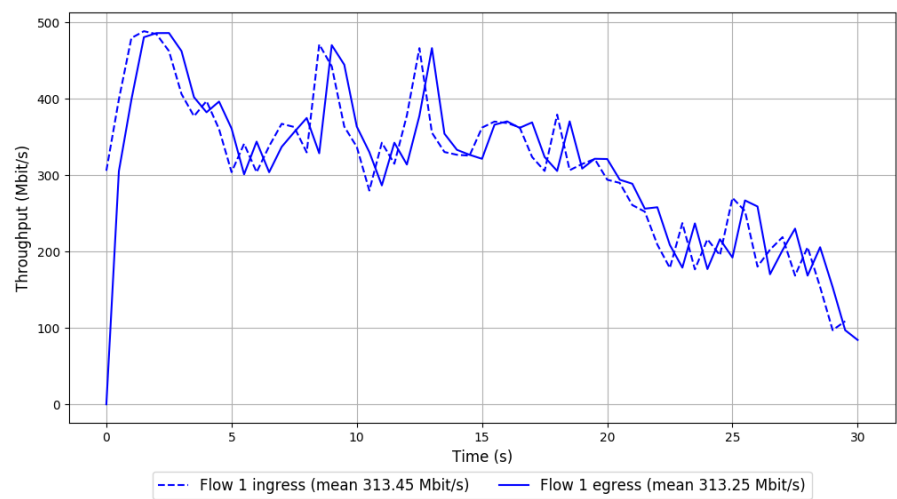
-- Flow 1:

Average throughput: 313.25 Mbit/s

95th percentile per-packet one-way delay: 6.434 ms

Loss rate: 0.13%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-06-19 05:21:55

End at: 2018-06-19 05:22:25

Local clock offset: 3.718 ms

Remote clock offset: 0.788 ms

Below is generated by plot.py at 2018-06-19 07:32:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 287.10 Mbit/s

95th percentile per-packet one-way delay: 3.055 ms

Loss rate: 0.09%

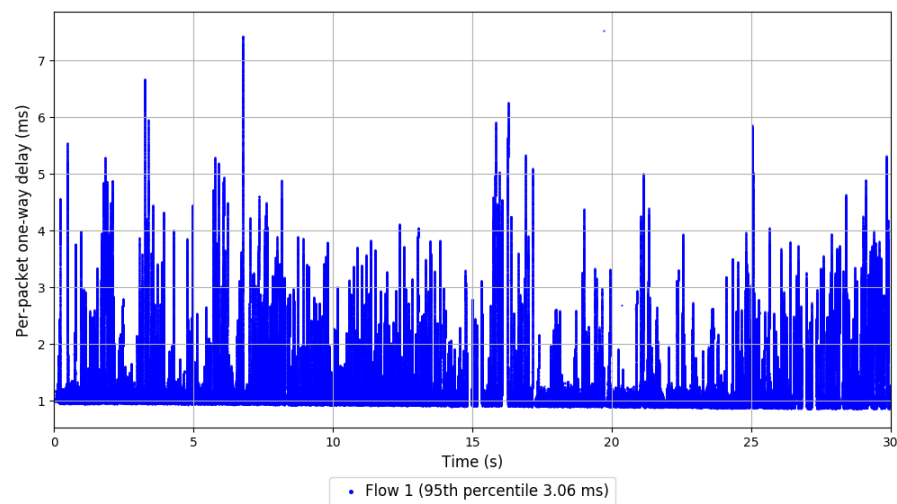
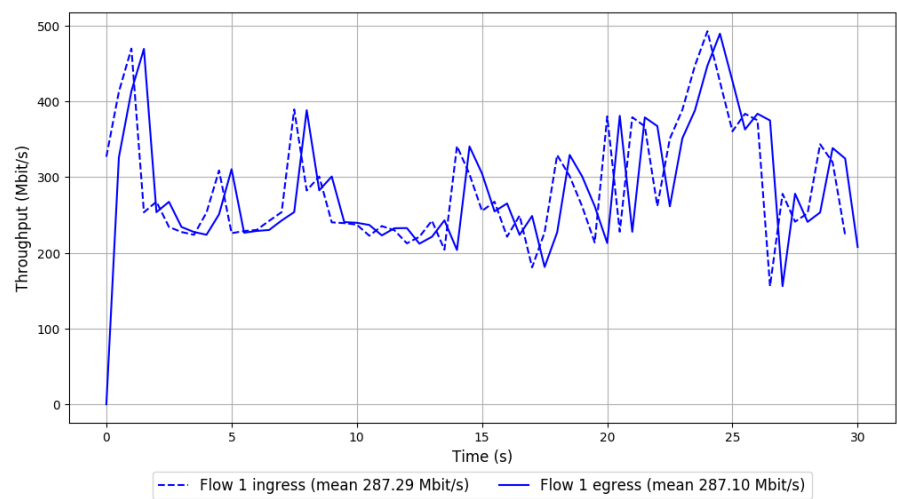
-- Flow 1:

Average throughput: 287.10 Mbit/s

95th percentile per-packet one-way delay: 3.055 ms

Loss rate: 0.09%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 02:01:31

End at: 2018-06-19 02:02:01

Local clock offset: 3.594 ms

Remote clock offset: 2.365 ms

Below is generated by plot.py at 2018-06-19 07:34:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 426.12 Mbit/s

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

Loss rate: 0.07%

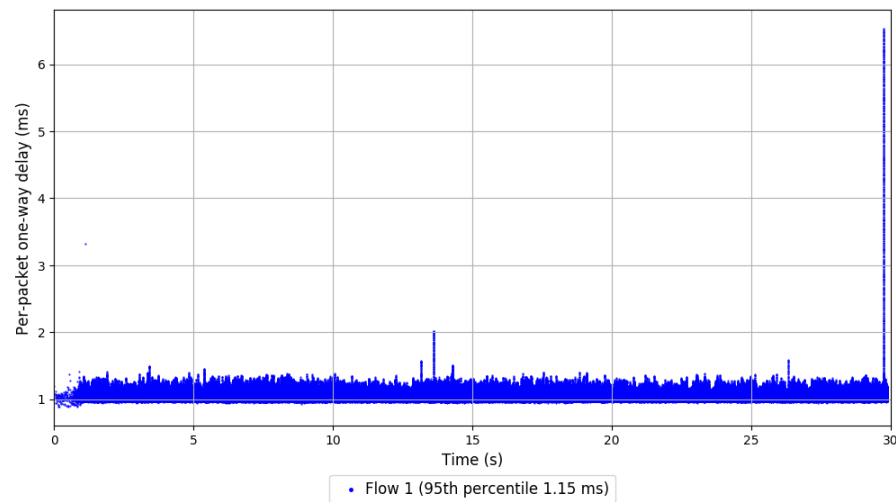
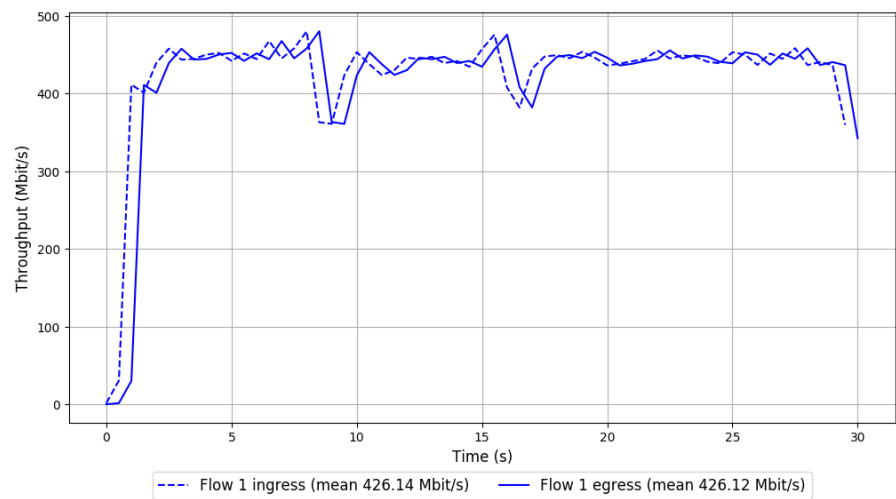
-- Flow 1:

Average throughput: 426.12 Mbit/s

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

Loss rate: 0.07%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 02:25:48

End at: 2018-06-19 02:26:18

Local clock offset: 3.494 ms

Remote clock offset: 2.579 ms

Below is generated by plot.py at 2018-06-19 07:35:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 429.20 Mbit/s

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

Loss rate: 0.07%

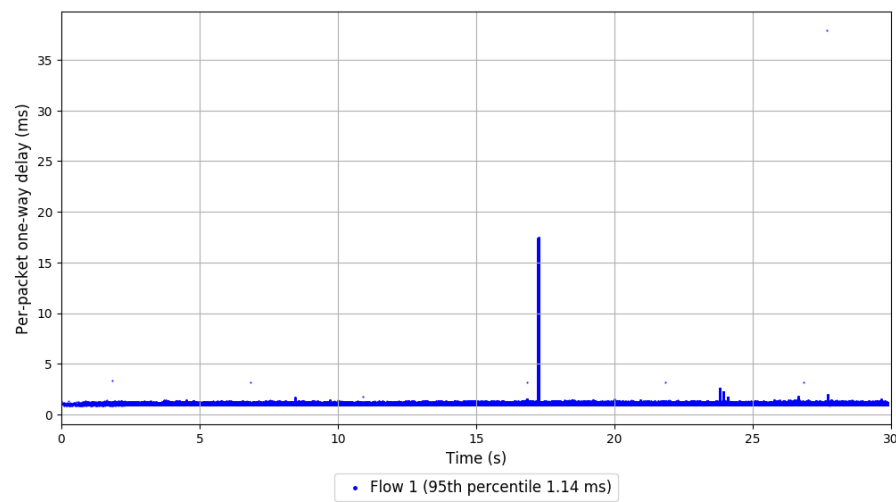
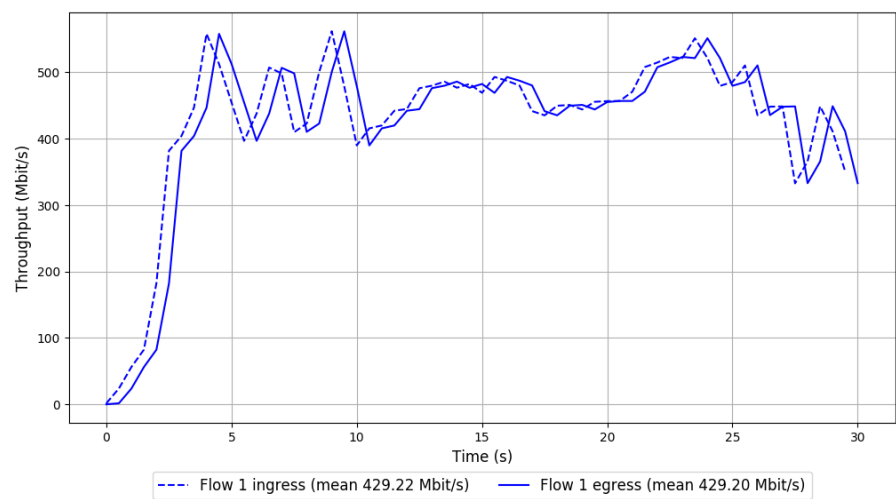
-- Flow 1:

Average throughput: 429.20 Mbit/s

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

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 02:50:00

End at: 2018-06-19 02:50:30

Local clock offset: 3.541 ms

Remote clock offset: 3.078 ms

Below is generated by plot.py at 2018-06-19 07:35:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 427.95 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.07%

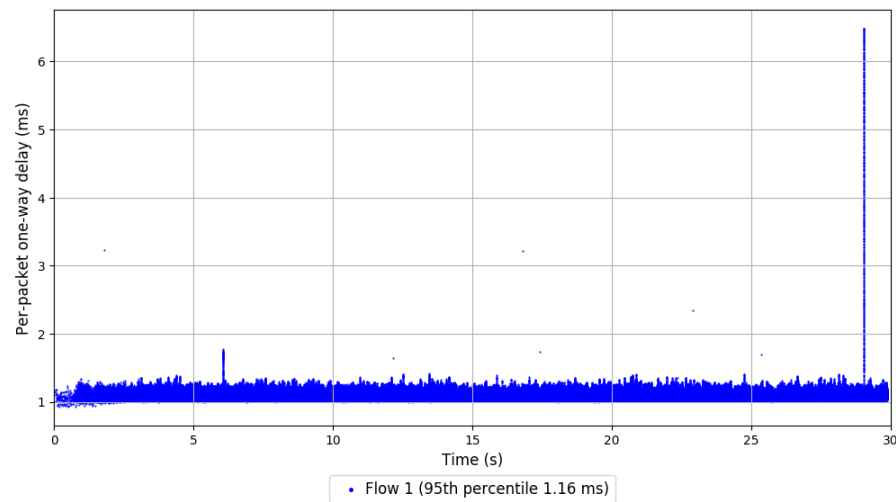
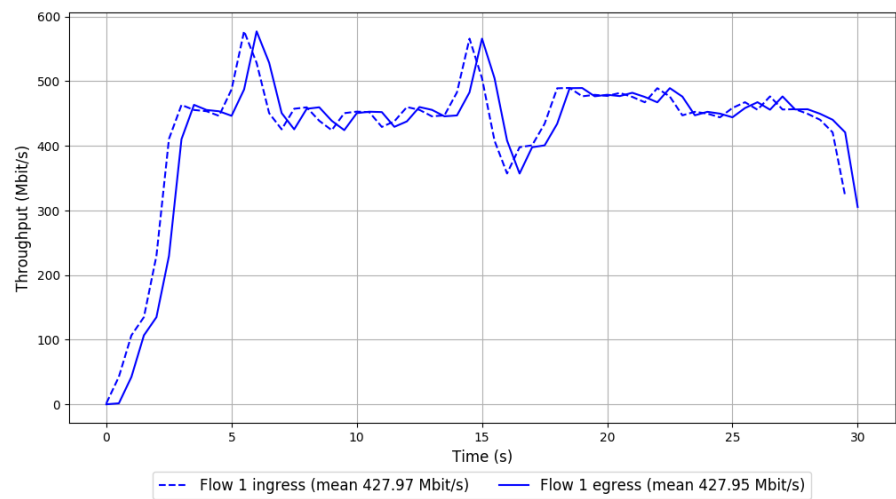
-- Flow 1:

Average throughput: 427.95 Mbit/s

95th percentile per-packet one-way delay: 1.159 ms

Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 03:14:20

End at: 2018-06-19 03:14:50

Local clock offset: 3.48 ms

Remote clock offset: 3.054 ms

Below is generated by plot.py at 2018-06-19 07:35:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.93 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.08%

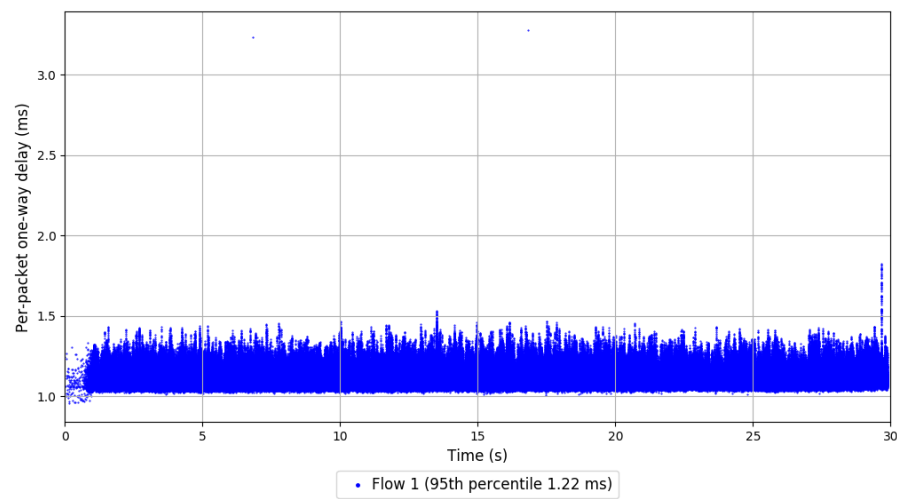
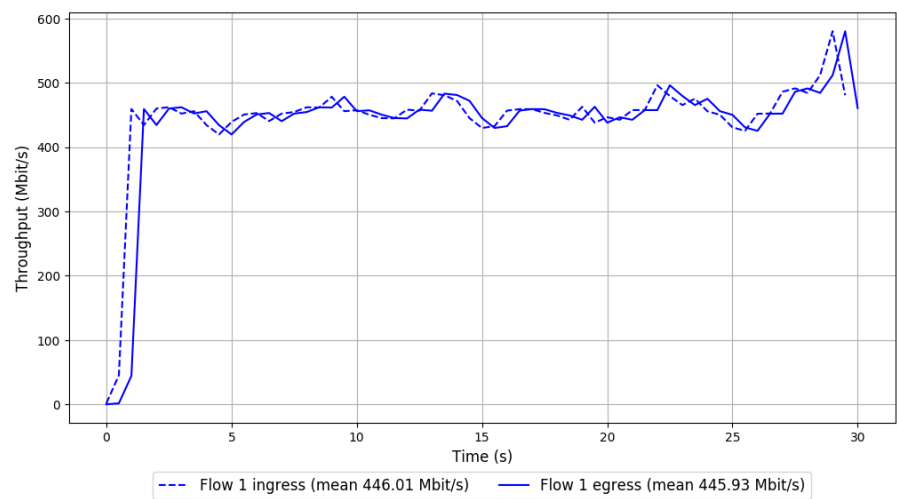
-- Flow 1:

Average throughput: 445.93 Mbit/s

95th percentile per-packet one-way delay: 1.215 ms

Loss rate: 0.08%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 03:38:31

End at: 2018-06-19 03:39:01

Local clock offset: 3.572 ms

Remote clock offset: 3.345 ms

Below is generated by plot.py at 2018-06-19 07:35:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 443.84 Mbit/s

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

Loss rate: 0.06%

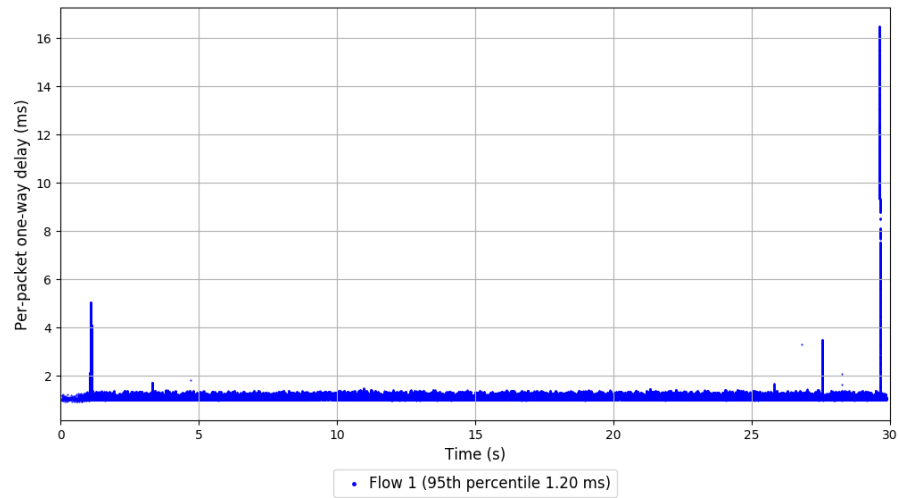
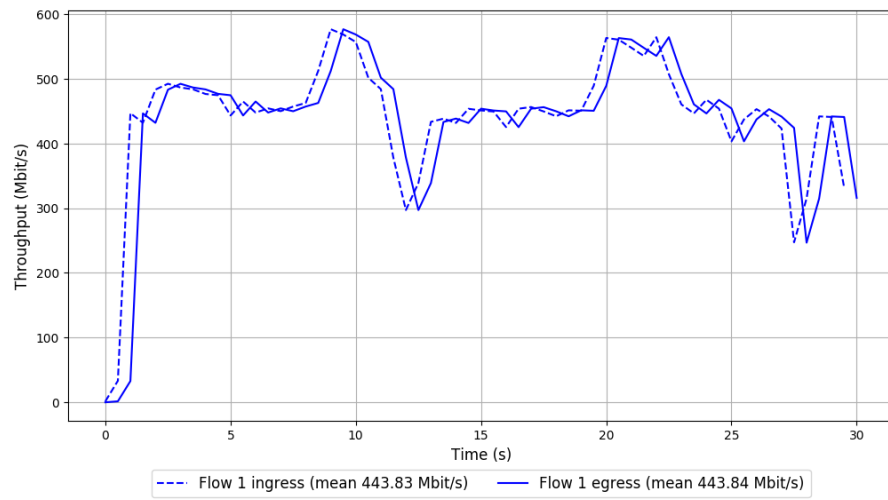
-- Flow 1:

Average throughput: 443.84 Mbit/s

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

Loss rate: 0.06%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 04:02:40

End at: 2018-06-19 04:03:10

Local clock offset: 3.807 ms

Remote clock offset: 3.717 ms

Below is generated by plot.py at 2018-06-19 07:36:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.38 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.07%

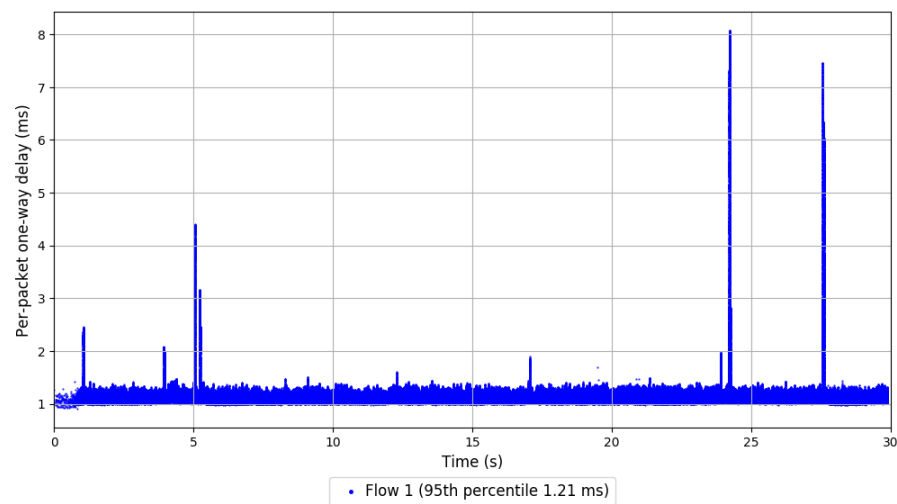
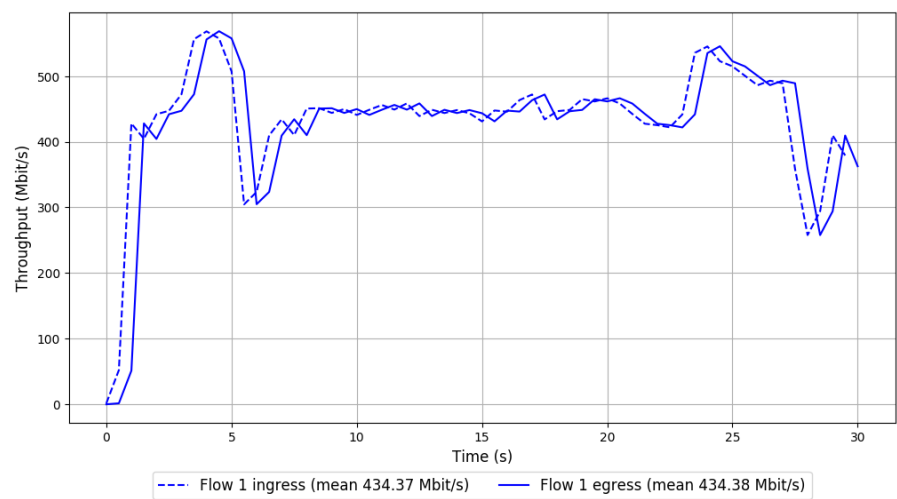
-- Flow 1:

Average throughput: 434.38 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.07%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 04:26:59

End at: 2018-06-19 04:27:29

Local clock offset: 3.763 ms

Remote clock offset: -0.908 ms

Below is generated by plot.py at 2018-06-19 07:36:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 434.90 Mbit/s

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

Loss rate: 0.07%

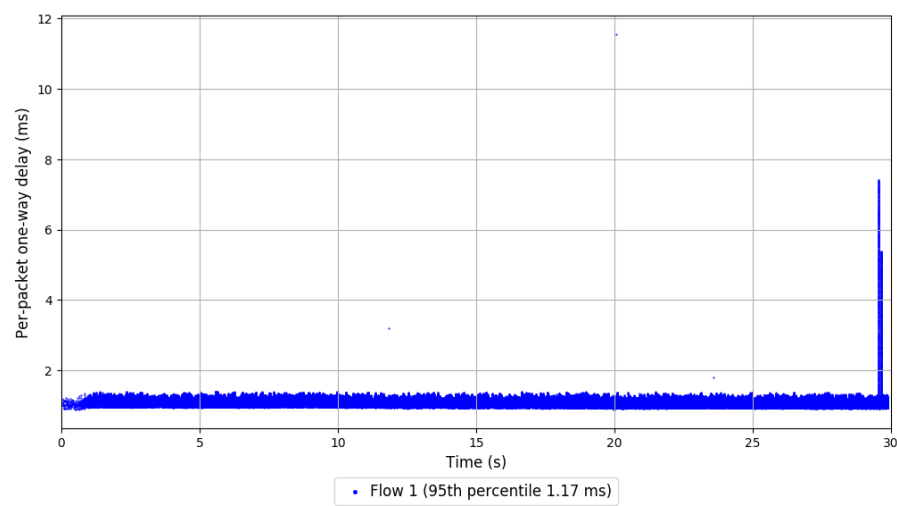
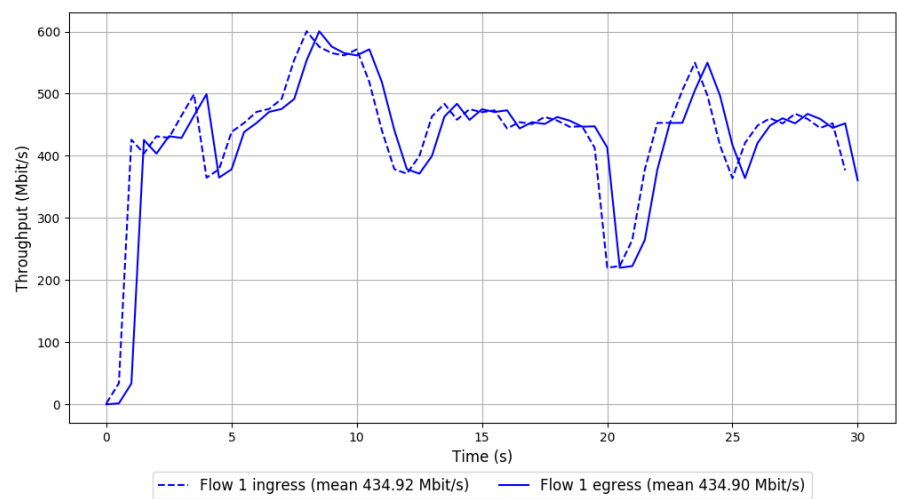
-- Flow 1:

Average throughput: 434.90 Mbit/s

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

Loss rate: 0.07%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 04:51:16

End at: 2018-06-19 04:51:46

Local clock offset: 3.697 ms

Remote clock offset: 1.72 ms

Below is generated by plot.py at 2018-06-19 07:37:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.93 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.07%

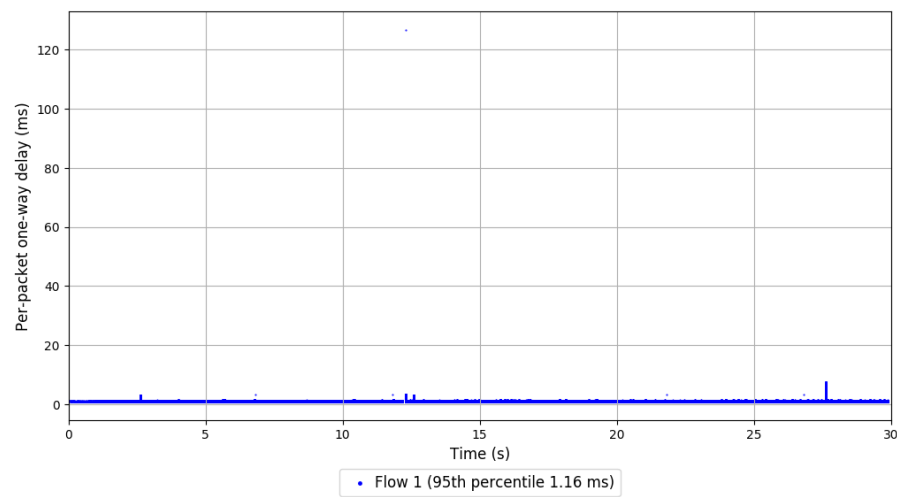
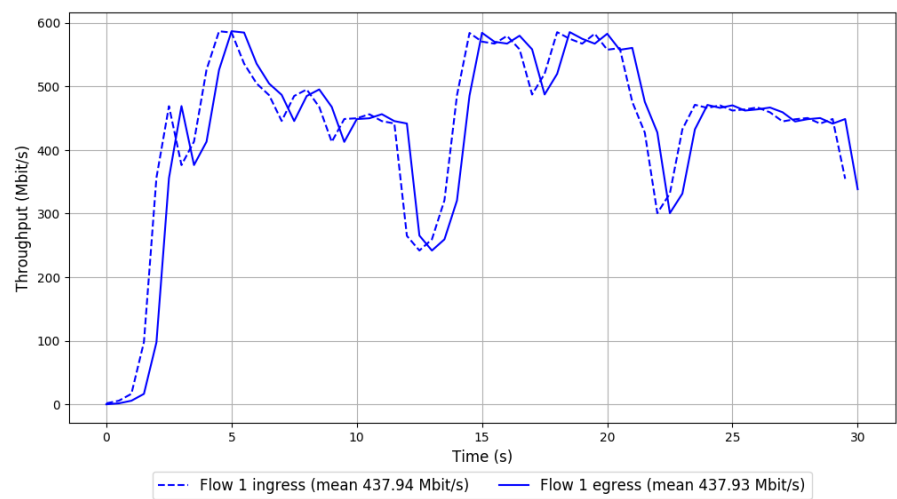
-- Flow 1:

Average throughput: 437.93 Mbit/s

95th percentile per-packet one-way delay: 1.162 ms

Loss rate: 0.07%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 05:15:34

End at: 2018-06-19 05:16:04

Local clock offset: 3.708 ms

Remote clock offset: 2.459 ms

Below is generated by plot.py at 2018-06-19 07:37:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 467.87 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.06%

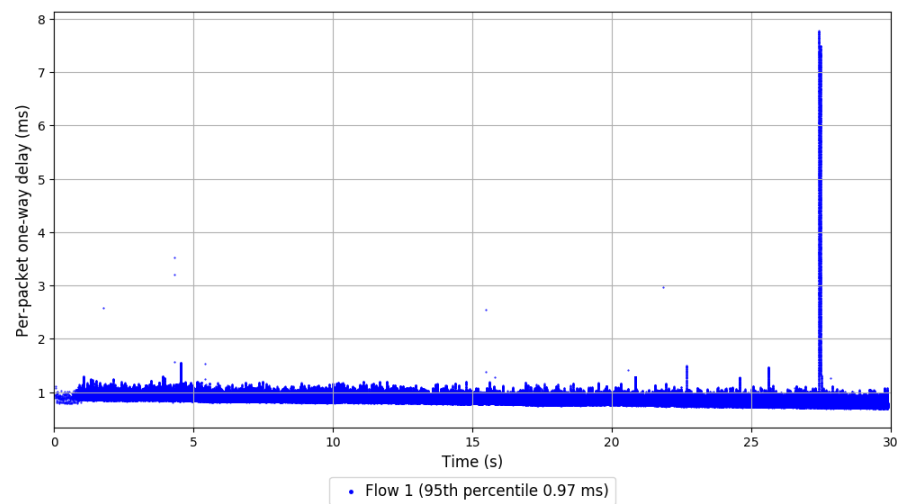
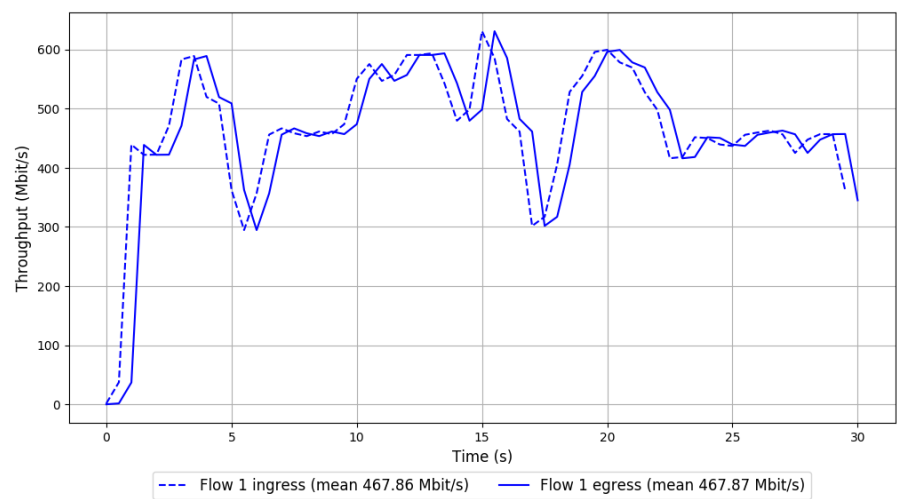
-- Flow 1:

Average throughput: 467.87 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.06%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 05:39:55

End at: 2018-06-19 05:40:25

Local clock offset: 3.65 ms

Remote clock offset: -1.288 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.88 Mbit/s

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

Loss rate: 0.07%

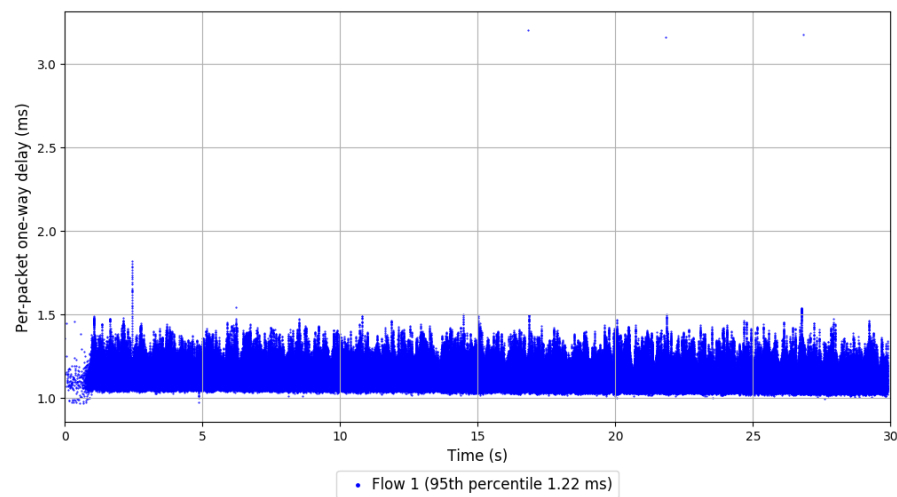
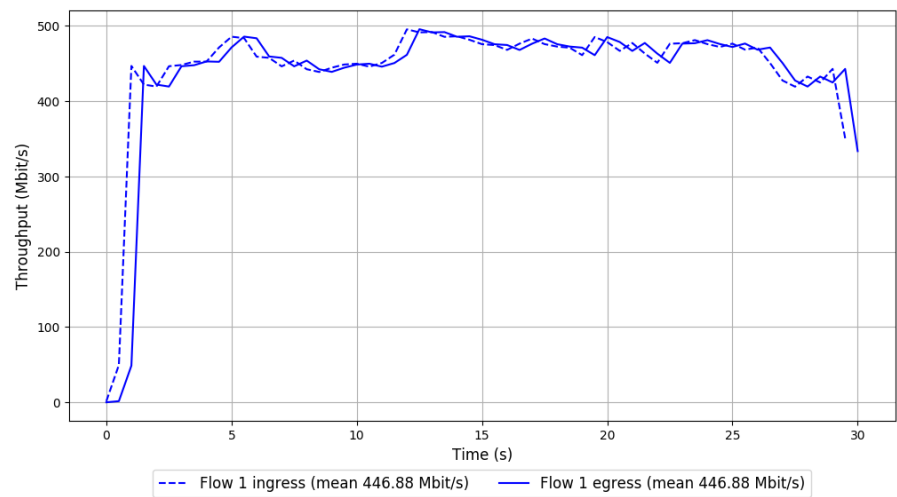
-- Flow 1:

Average throughput: 446.88 Mbit/s

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

Loss rate: 0.07%

Run 10: Report of PCC-Vivace — Data Link

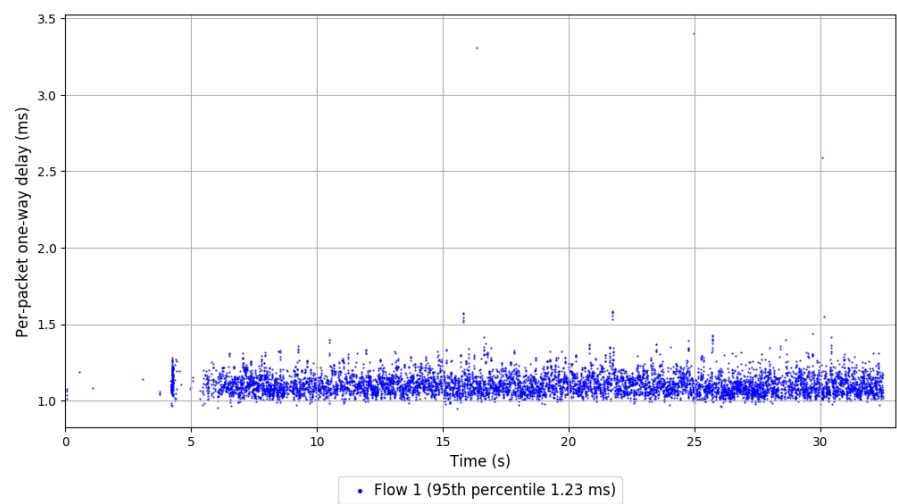
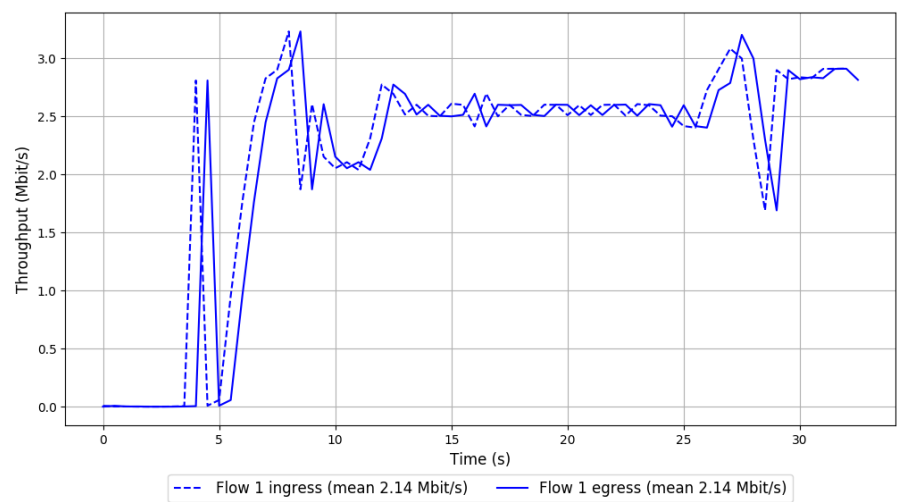


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-19 01:58:39
End at: 2018-06-19 01:59:09
Local clock offset: 3.682 ms
Remote clock offset: 2.421 ms

# Below is generated by plot.py at 2018-06-19 07:37:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.07%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-19 02:22:57

End at: 2018-06-19 02:23:27

Local clock offset: 3.526 ms

Remote clock offset: 2.474 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.07%

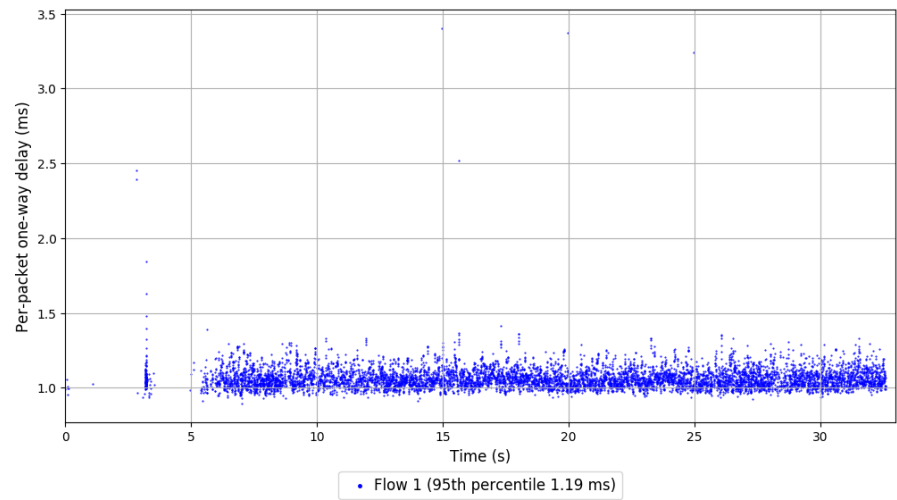
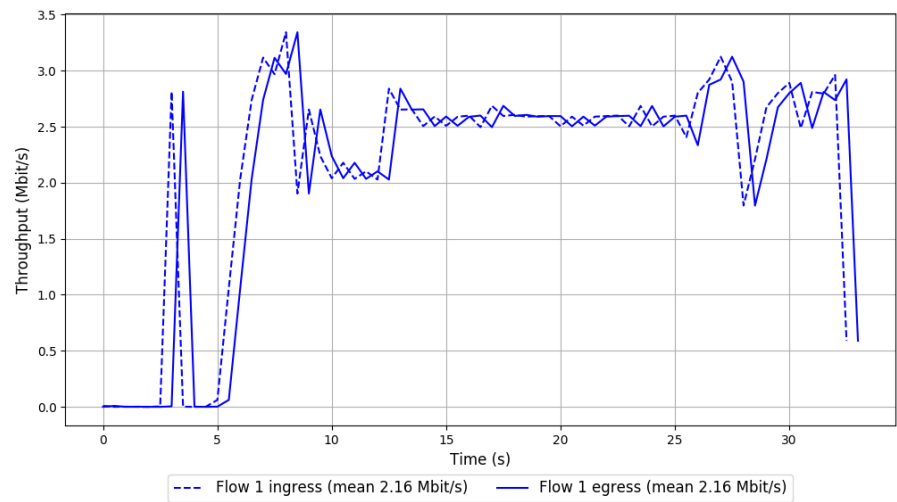
-- Flow 1:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.07%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 02:47:09

End at: 2018-06-19 02:47:39

Local clock offset: 3.57 ms

Remote clock offset: 3.072 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

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

Loss rate: 0.07%

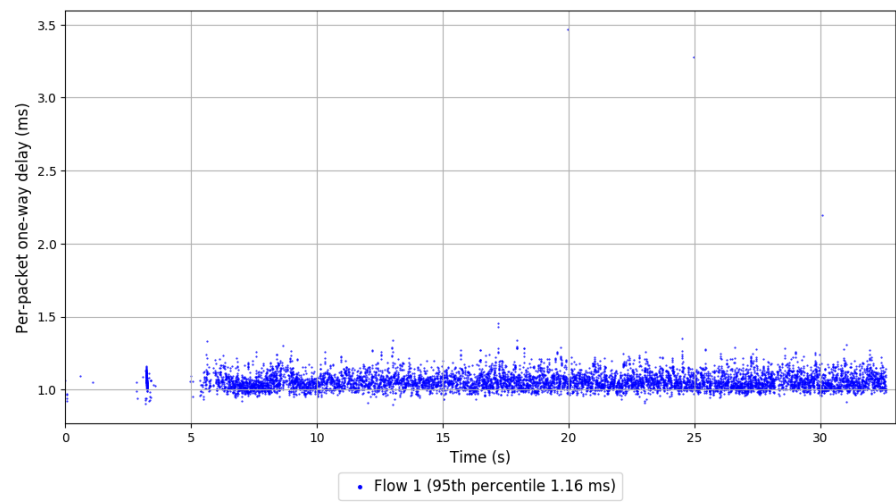
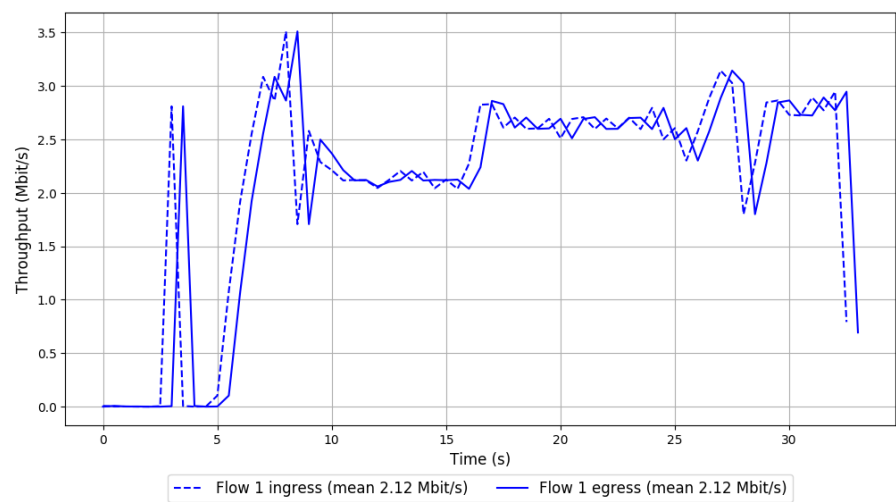
-- Flow 1:

Average throughput: 2.12 Mbit/s

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

Loss rate: 0.07%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 03:11:28

End at: 2018-06-19 03:11:59

Local clock offset: 3.495 ms

Remote clock offset: 3.039 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.07%

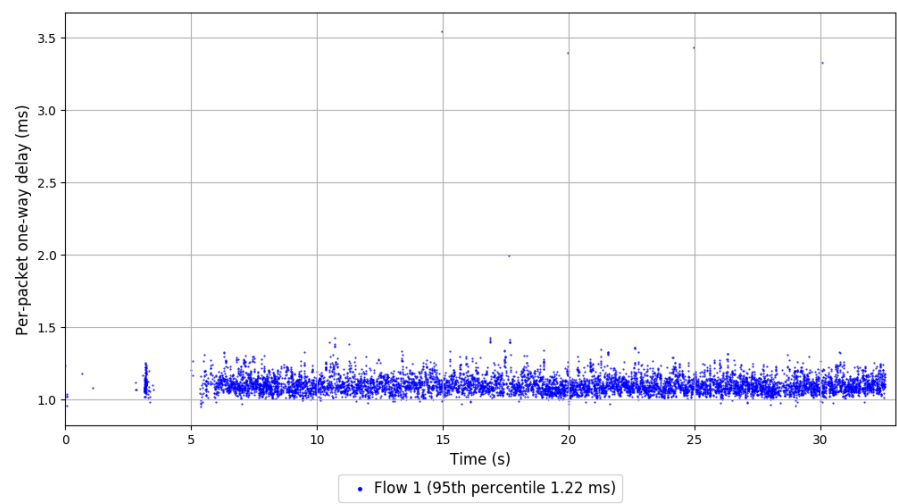
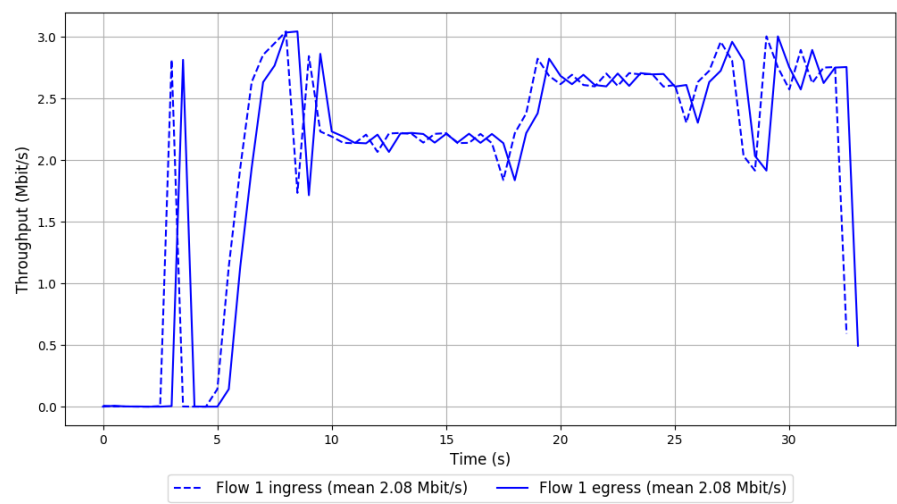
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.07%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-19 03:35:41

End at: 2018-06-19 03:36:11

Local clock offset: 3.509 ms

Remote clock offset: 3.338 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

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

Loss rate: 0.07%

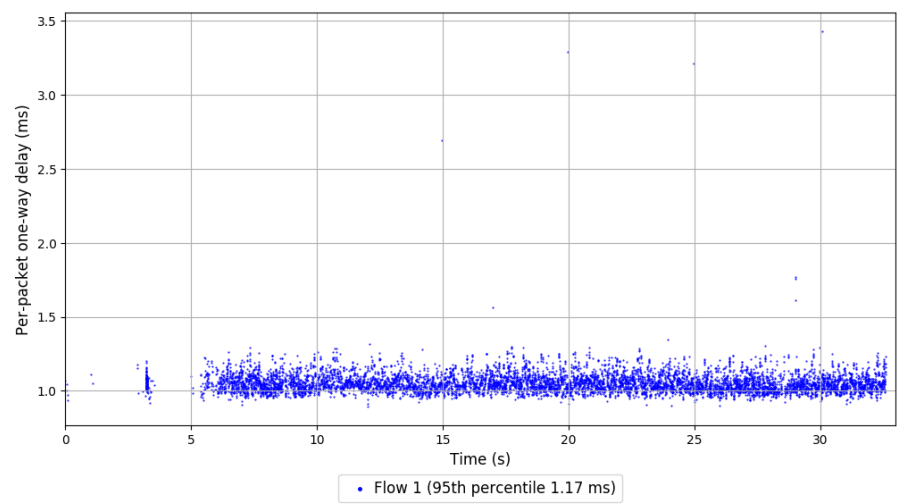
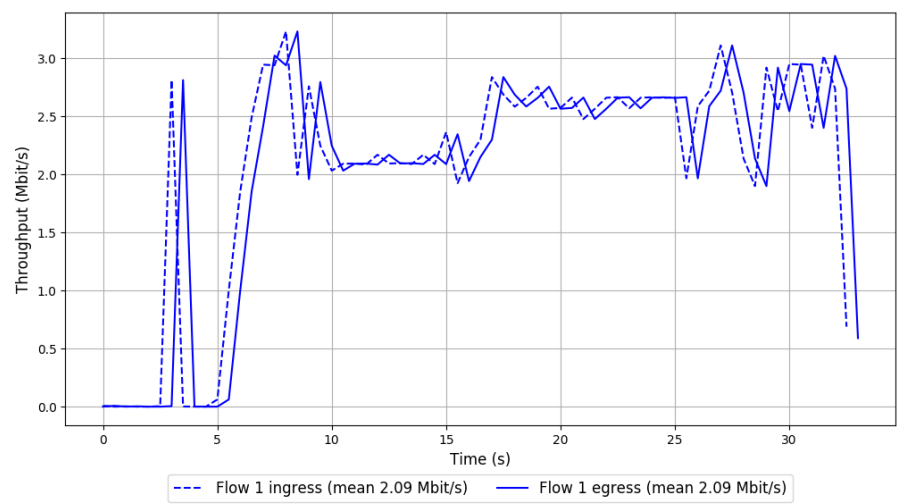
-- Flow 1:

Average throughput: 2.09 Mbit/s

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

Loss rate: 0.07%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-19 03:59:49

End at: 2018-06-19 04:00:19

Local clock offset: 3.711 ms

Remote clock offset: 3.622 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.07%

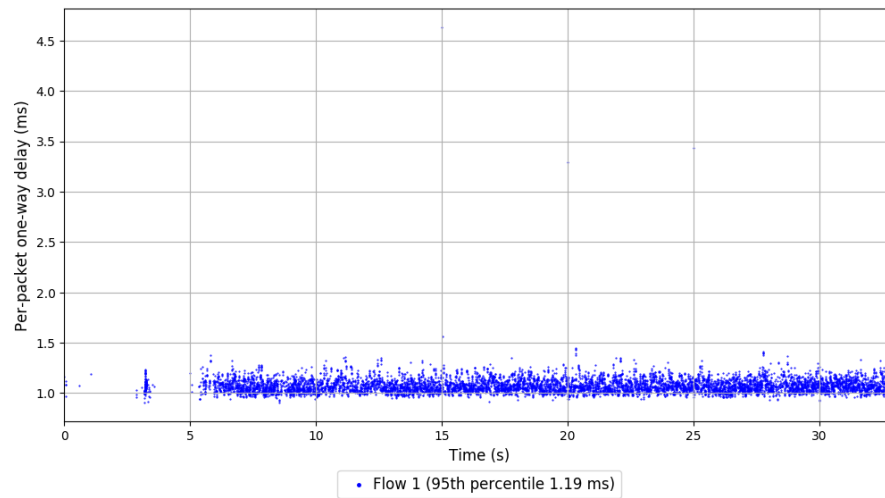
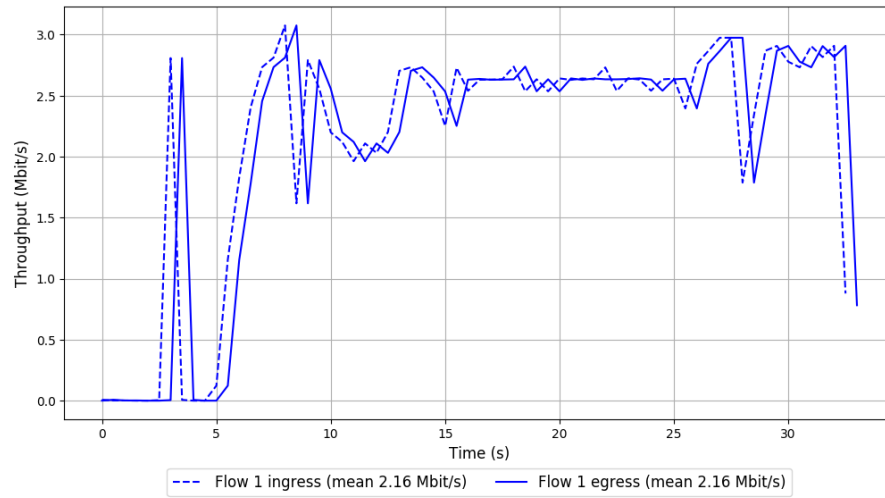
-- Flow 1:

Average throughput: 2.16 Mbit/s

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

Loss rate: 0.07%

Run 6: Report of WebRTC media — Data Link

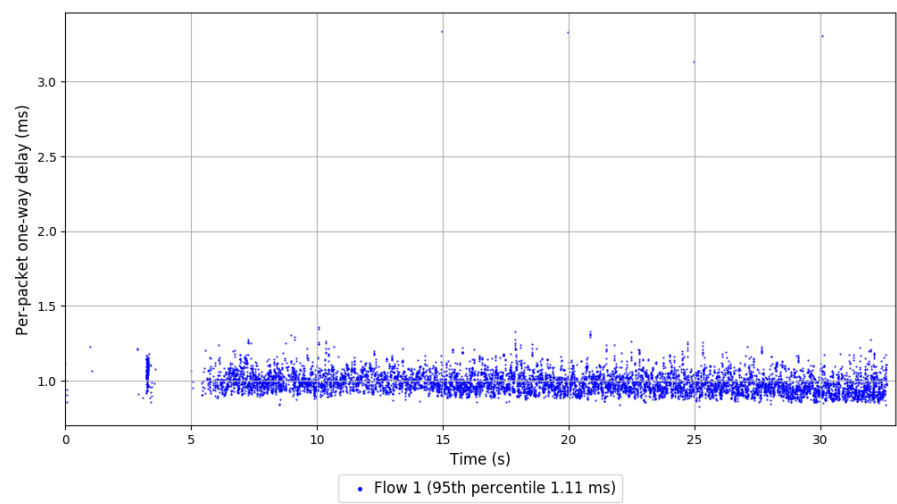
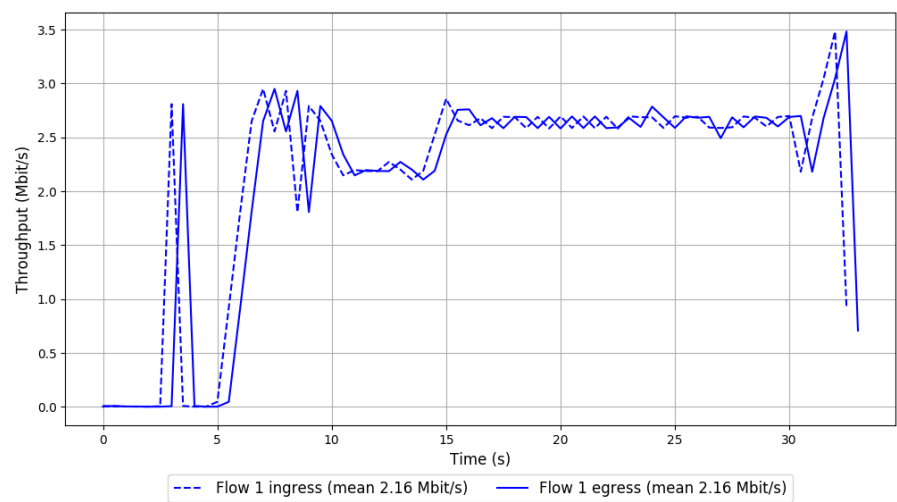


Run 7: Statistics of WebRTC media

Start at: 2018-06-19 04:24:09
End at: 2018-06-19 04:24:39
Local clock offset: 3.77 ms
Remote clock offset: -0.577 ms

Below is generated by plot.py at 2018-06-19 07:37:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 1.115 ms
Loss rate: 0.15%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-06-19 04:48:26

End at: 2018-06-19 04:48:56

Local clock offset: 3.713 ms

Remote clock offset: 1.134 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 1.287 ms

Loss rate: 0.07%

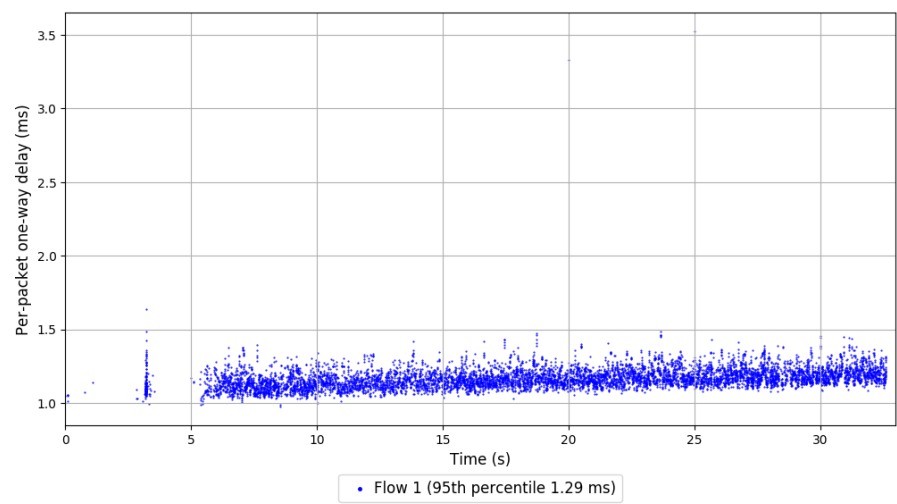
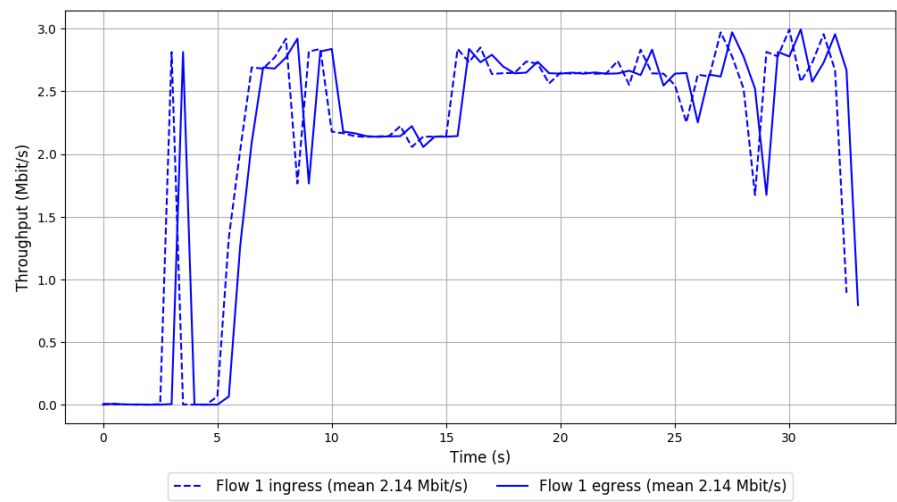
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 1.287 ms

Loss rate: 0.07%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-06-19 05:12:43

End at: 2018-06-19 05:13:13

Local clock offset: 3.713 ms

Remote clock offset: 2.993 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.08%

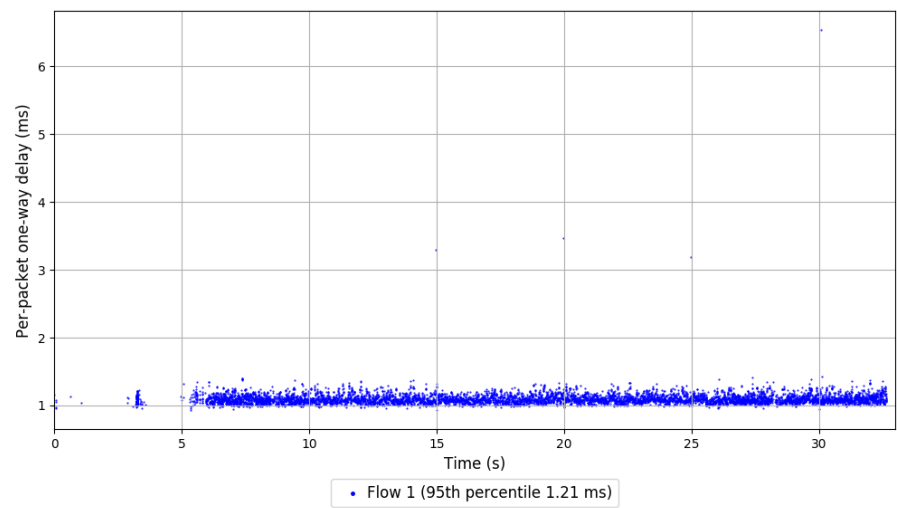
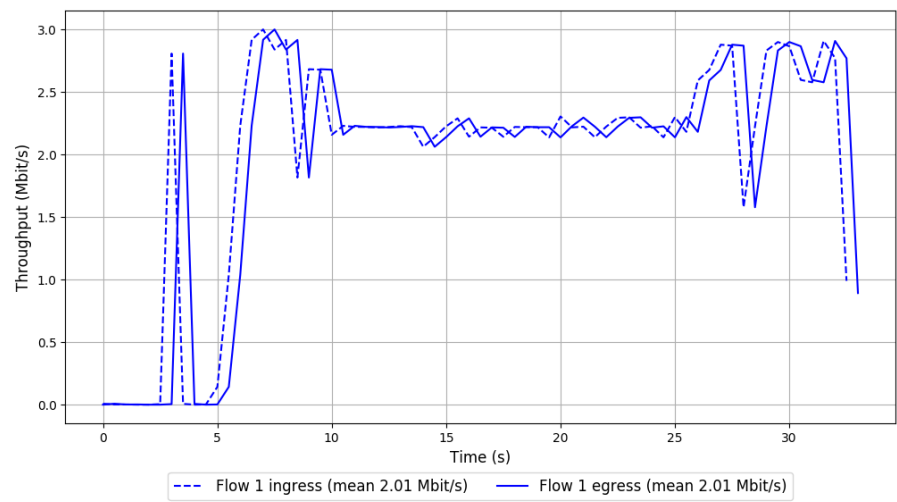
-- Flow 1:

Average throughput: 2.01 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.08%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 05:37:06

End at: 2018-06-19 05:37:36

Local clock offset: 3.586 ms

Remote clock offset: -1.07 ms

Below is generated by plot.py at 2018-06-19 07:37:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.18 Mbit/s

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

Loss rate: 0.07%

-- Flow 1:

Average throughput: 2.18 Mbit/s

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

Loss rate: 0.07%

Run 10: Report of WebRTC media — Data Link

