

Pantheon Report

Generated at 2018-07-10 02:06:30 (UTC).

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

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

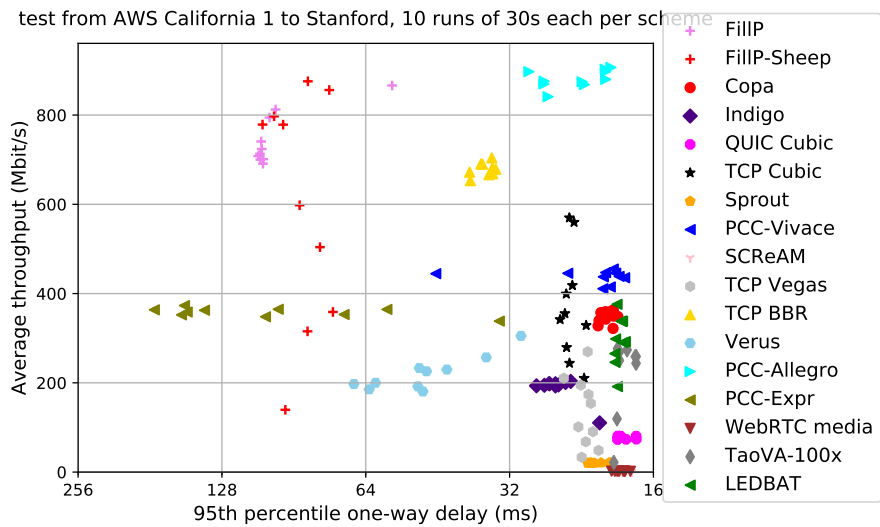
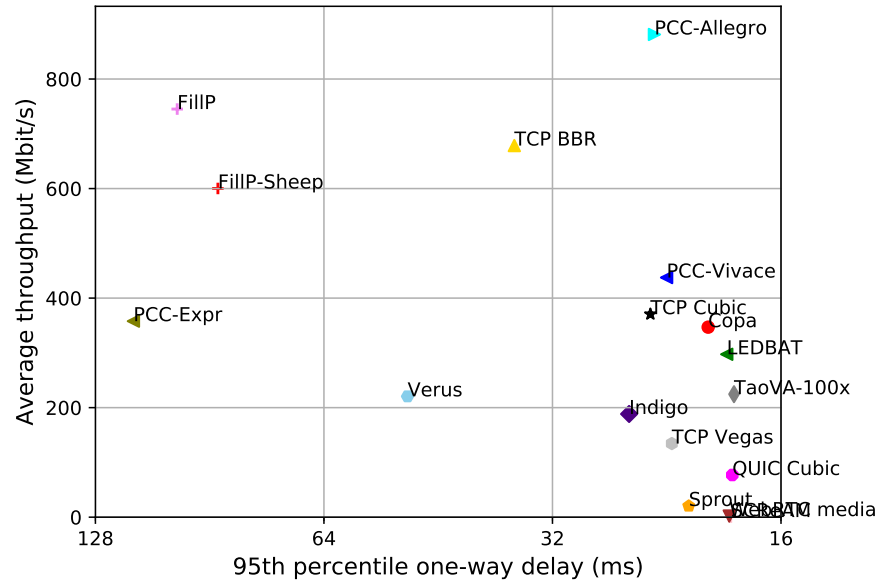
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 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 AWS California 1 to Stanford, 10 runs of 30s each per scheme
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	678.54	35.92	0.63
Copa	10	346.94	19.96	0.08
TCP Cubic	10	370.67	23.78	0.08
FillP	10	745.16	99.87	4.53
FillP-Sheep	10	600.19	88.28	11.11
Indigo	10	188.43	25.36	0.09
LEDBAT	10	297.42	18.86	0.02
PCC-Allegro	10	881.35	23.49	0.64
PCC-Expr	10	357.88	114.07	0.82
QUIC Cubic	10	77.03	18.55	0.05
SCReAM	10	0.21	18.64	0.08
Sprout	10	20.45	21.17	0.09
TaoVA-100x	10	224.54	18.45	0.15
TCP Vegas	10	134.41	22.28	0.16
Verus	10	220.61	49.67	18.64
PCC-Vivace	10	437.51	22.64	0.15
WebRTC media	10	2.00	18.72	0.04

Run 1: Statistics of TCP BBR

Start at: 2018-07-09 20:02:47

End at: 2018-07-09 20:03:17

Local clock offset: 0.483 ms

Remote clock offset: 2.212 ms

Below is generated by plot.py at 2018-07-10 00:31:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 653.07 Mbit/s

95th percentile per-packet one-way delay: 38.653 ms

Loss rate: 0.84%

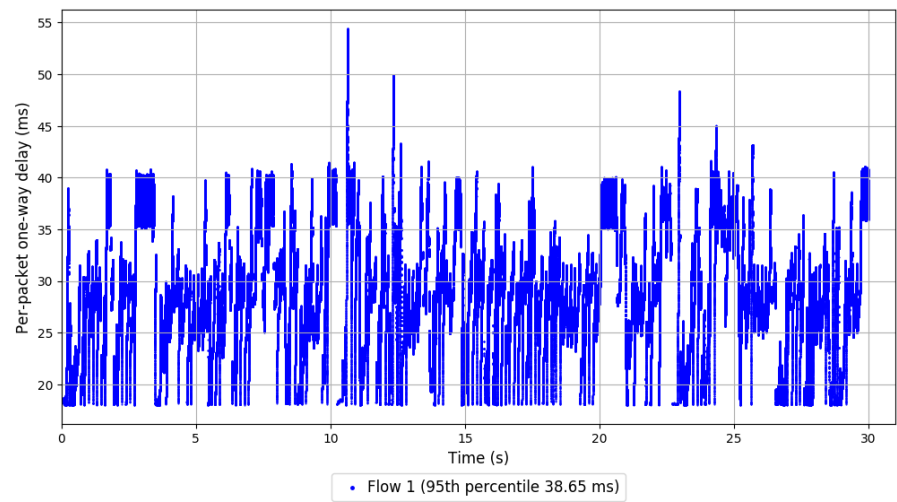
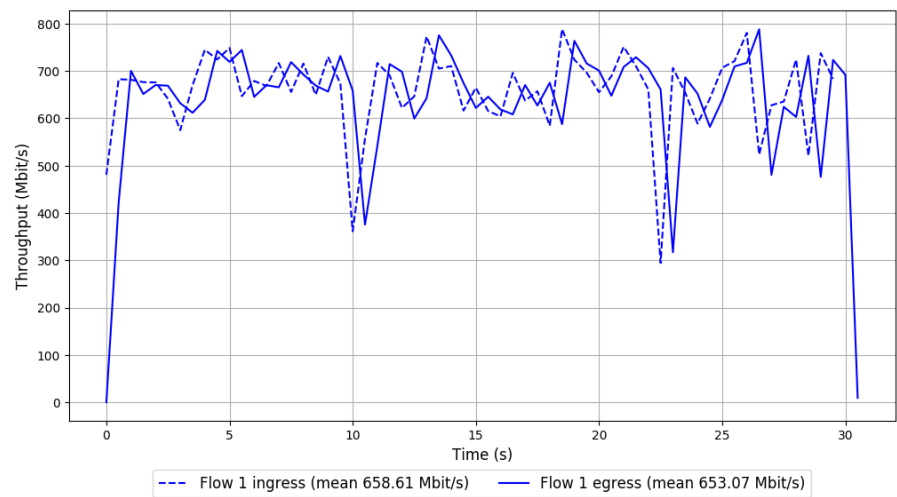
-- Flow 1:

Average throughput: 653.07 Mbit/s

95th percentile per-packet one-way delay: 38.653 ms

Loss rate: 0.84%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-07-09 20:28:30

End at: 2018-07-09 20:29:00

Local clock offset: 0.901 ms

Remote clock offset: 2.801 ms

Below is generated by plot.py at 2018-07-10 00:31:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 672.07 Mbit/s

95th percentile per-packet one-way delay: 38.788 ms

Loss rate: 0.71%

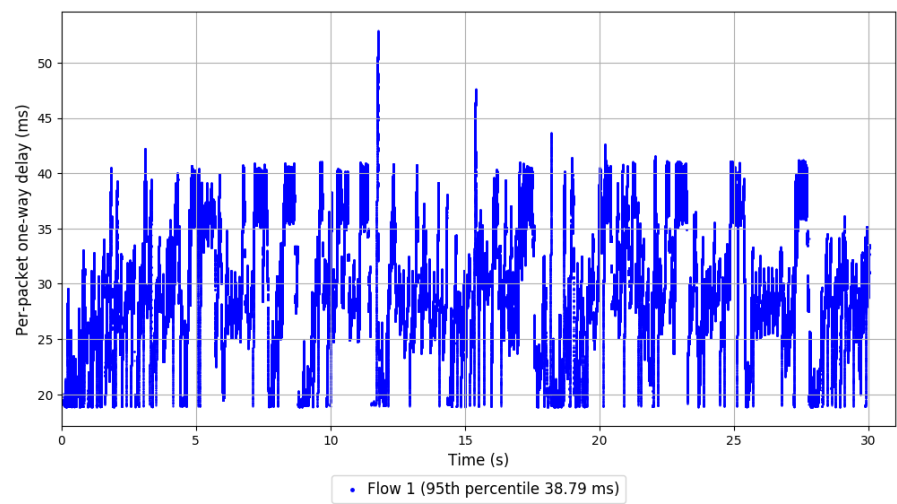
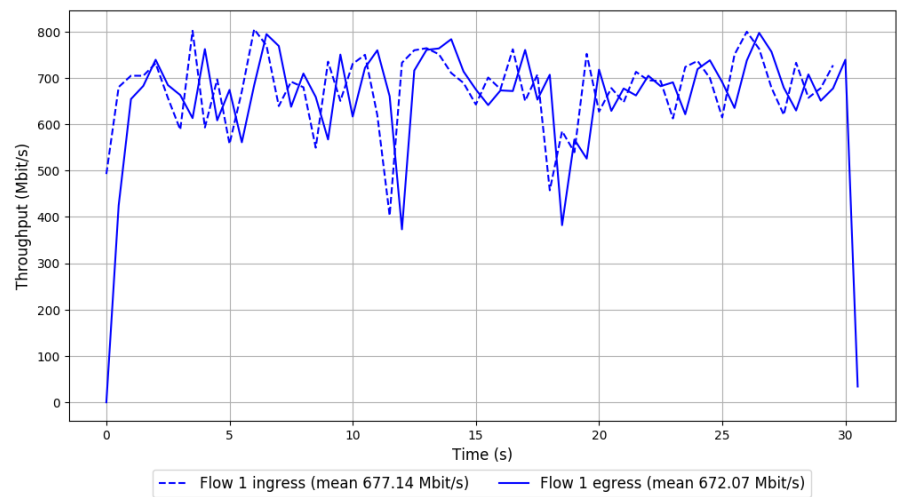
-- Flow 1:

Average throughput: 672.07 Mbit/s

95th percentile per-packet one-way delay: 38.788 ms

Loss rate: 0.71%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-07-09 20:53:50

End at: 2018-07-09 20:54:20

Local clock offset: 1.023 ms

Remote clock offset: 1.473 ms

Below is generated by plot.py at 2018-07-10 00:32:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 690.32 Mbit/s

95th percentile per-packet one-way delay: 36.737 ms

Loss rate: 0.43%

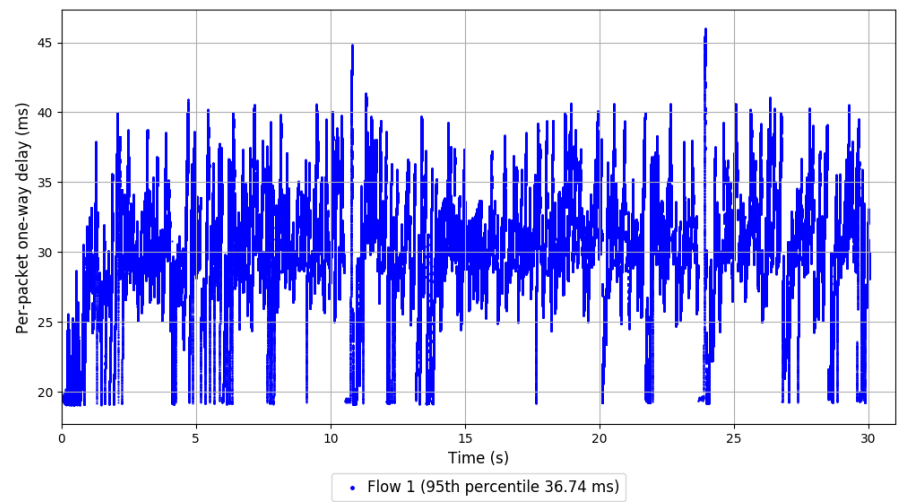
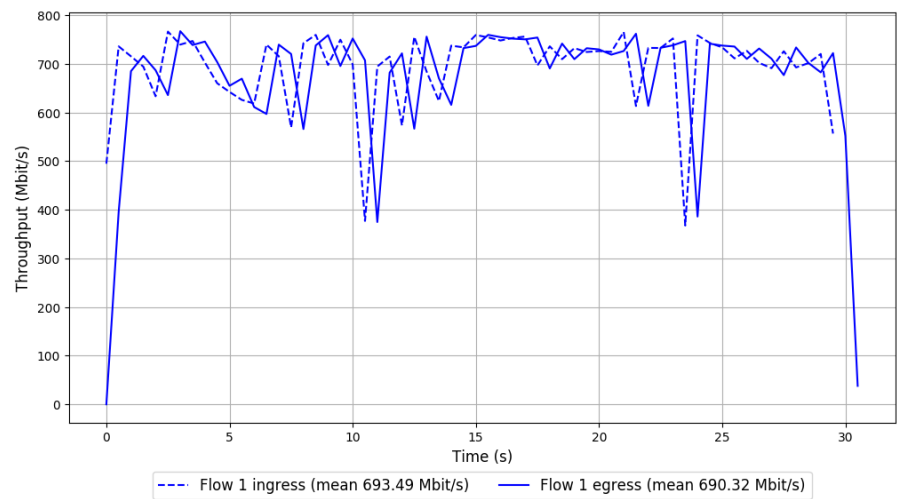
-- Flow 1:

Average throughput: 690.32 Mbit/s

95th percentile per-packet one-way delay: 36.737 ms

Loss rate: 0.43%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-07-09 21:19:08

End at: 2018-07-09 21:19:38

Local clock offset: 0.976 ms

Remote clock offset: -1.416 ms

Below is generated by plot.py at 2018-07-10 00:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 704.13 Mbit/s

95th percentile per-packet one-way delay: 34.859 ms

Loss rate: 0.48%

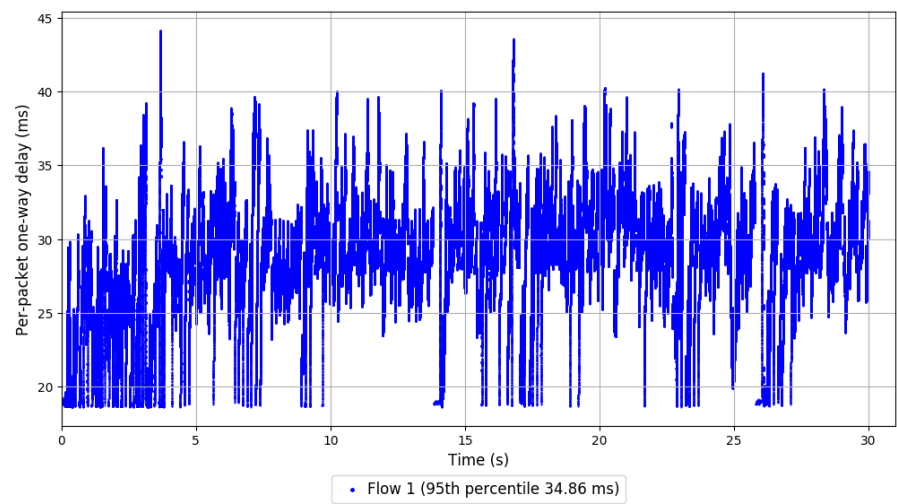
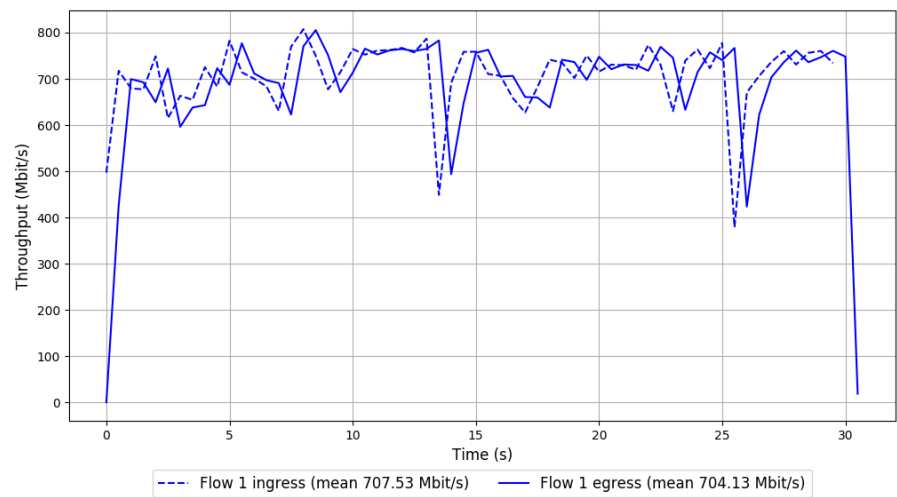
-- Flow 1:

Average throughput: 704.13 Mbit/s

95th percentile per-packet one-way delay: 34.859 ms

Loss rate: 0.48%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-07-09 21:44:49

End at: 2018-07-09 21:45:19

Local clock offset: 1.301 ms

Remote clock offset: -0.55 ms

Below is generated by plot.py at 2018-07-10 00:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 690.17 Mbit/s

95th percentile per-packet one-way delay: 36.472 ms

Loss rate: 0.45%

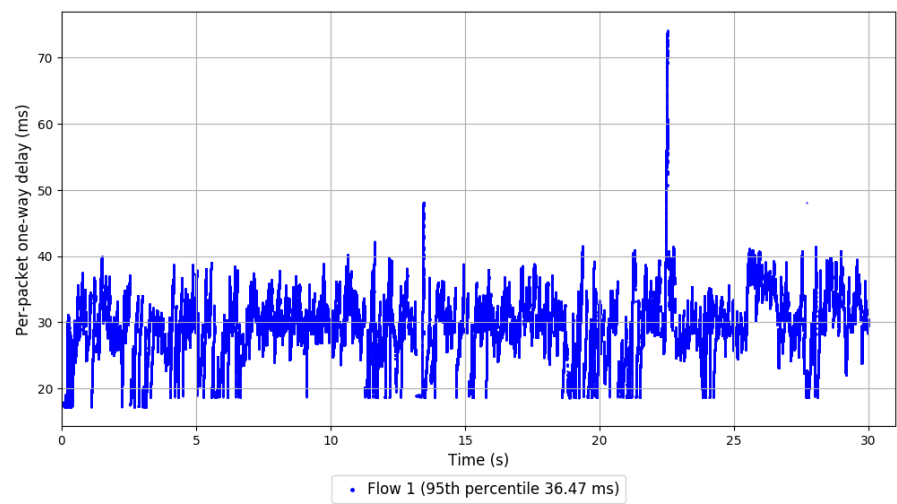
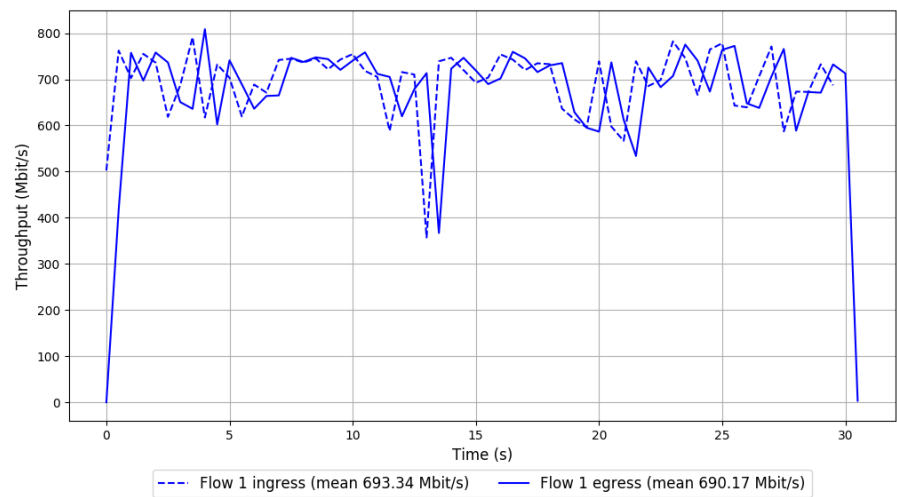
-- Flow 1:

Average throughput: 690.17 Mbit/s

95th percentile per-packet one-way delay: 36.472 ms

Loss rate: 0.45%

Run 5: Report of TCP BBR — Data Link

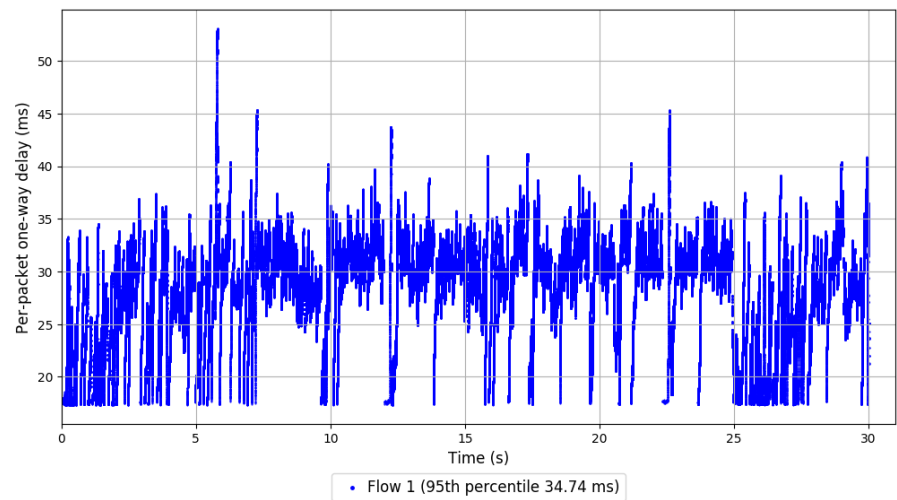
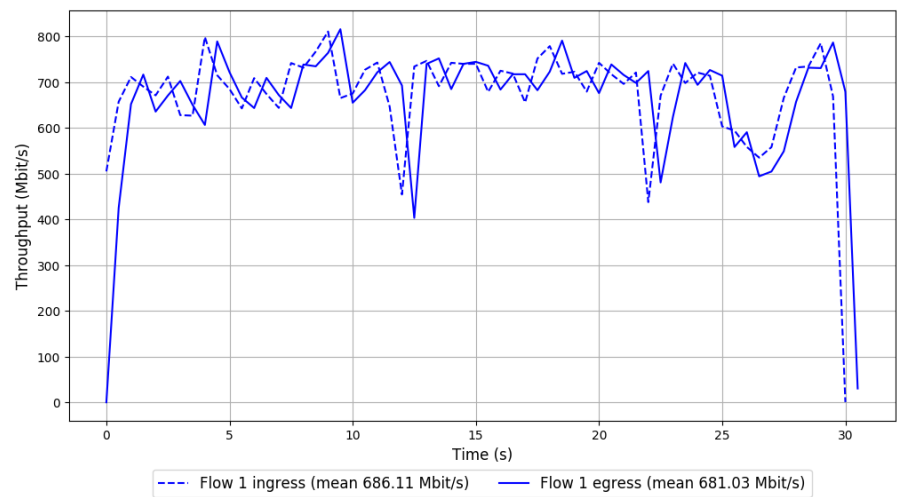


Run 6: Statistics of TCP BBR

Start at: 2018-07-09 22:10:17
End at: 2018-07-09 22:10:47
Local clock offset: 1.186 ms
Remote clock offset: -2.266 ms

Below is generated by plot.py at 2018-07-10 00:32:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 681.03 Mbit/s
95th percentile per-packet one-way delay: 34.738 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 681.03 Mbit/s
95th percentile per-packet one-way delay: 34.738 ms
Loss rate: 0.73%

Run 6: Report of TCP BBR — Data Link

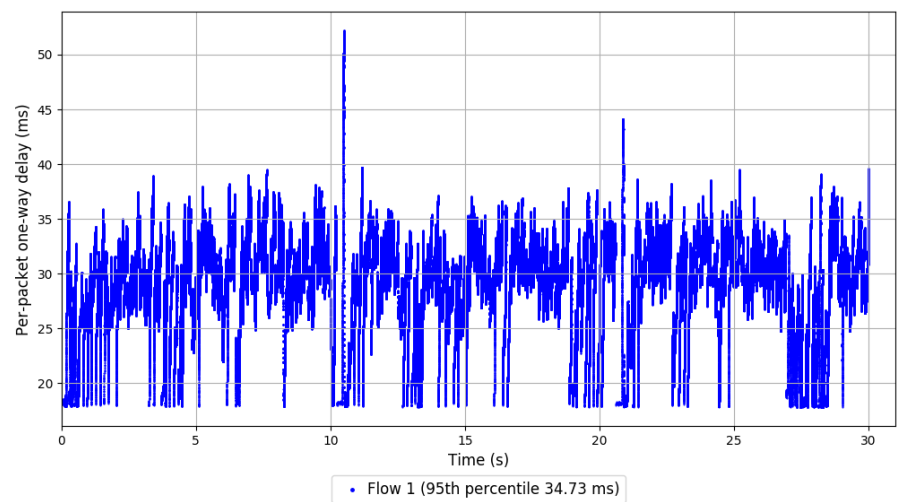
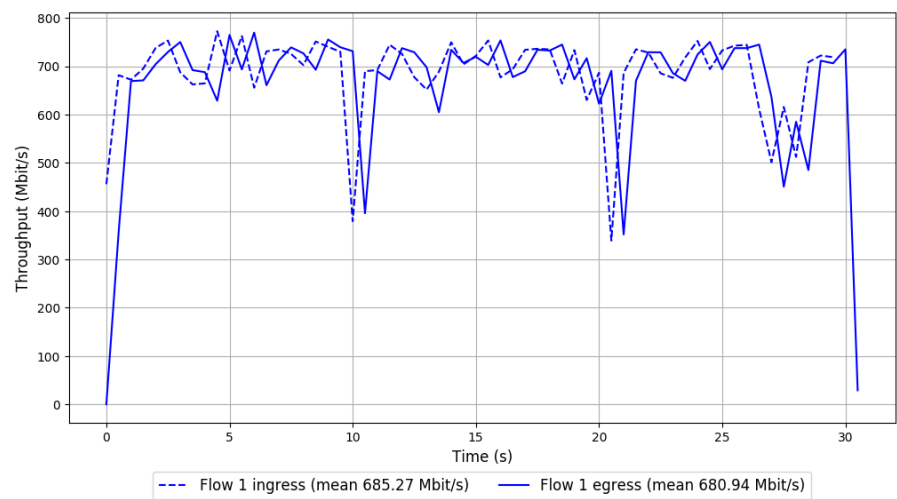


Run 7: Statistics of TCP BBR

Start at: 2018-07-09 22:35:48
End at: 2018-07-09 22:36:18
Local clock offset: 0.791 ms
Remote clock offset: -1.757 ms

Below is generated by plot.py at 2018-07-10 00:32:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 680.94 Mbit/s
95th percentile per-packet one-way delay: 34.732 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 680.94 Mbit/s
95th percentile per-packet one-way delay: 34.732 ms
Loss rate: 0.58%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-07-09 23:01:24

End at: 2018-07-09 23:01:54

Local clock offset: 0.771 ms

Remote clock offset: 0.934 ms

Below is generated by plot.py at 2018-07-10 00:32:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 666.31 Mbit/s

95th percentile per-packet one-way delay: 35.348 ms

Loss rate: 0.50%

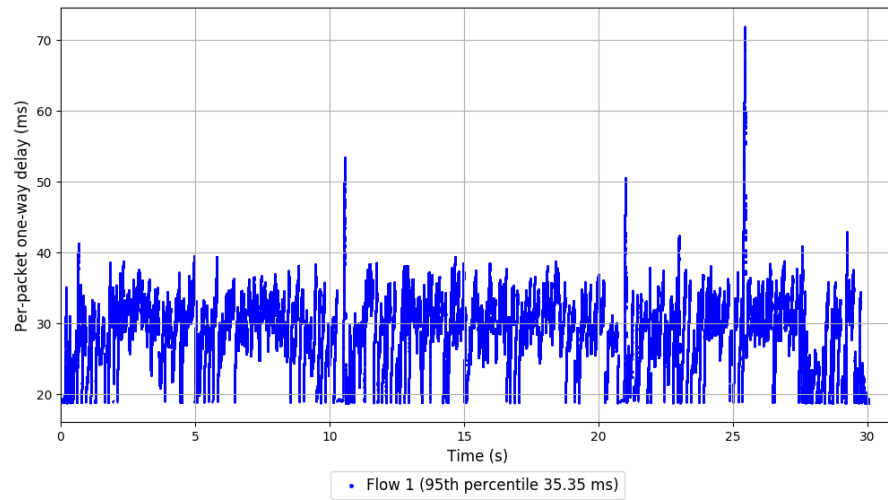
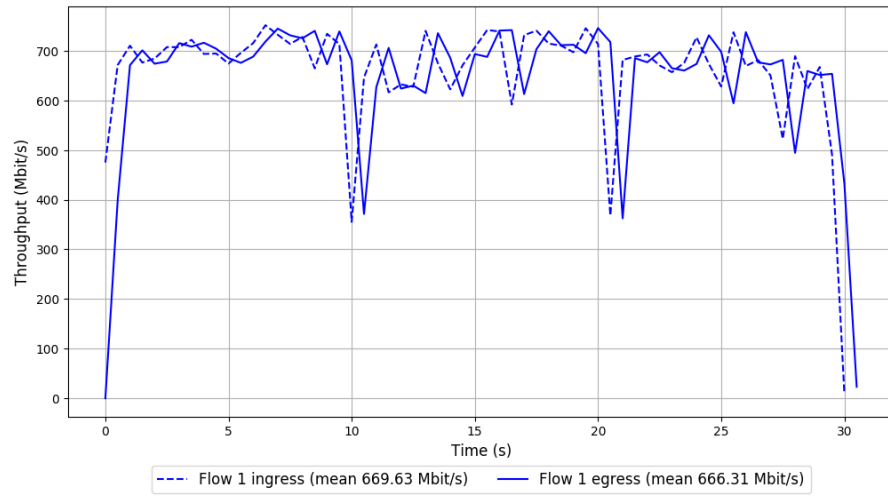
-- Flow 1:

Average throughput: 666.31 Mbit/s

95th percentile per-packet one-way delay: 35.348 ms

Loss rate: 0.50%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-07-09 23:26:26

End at: 2018-07-09 23:26:56

Local clock offset: 1.057 ms

Remote clock offset: 3.854 ms

Below is generated by plot.py at 2018-07-10 00:39:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 668.71 Mbit/s

95th percentile per-packet one-way delay: 34.722 ms

Loss rate: 0.94%

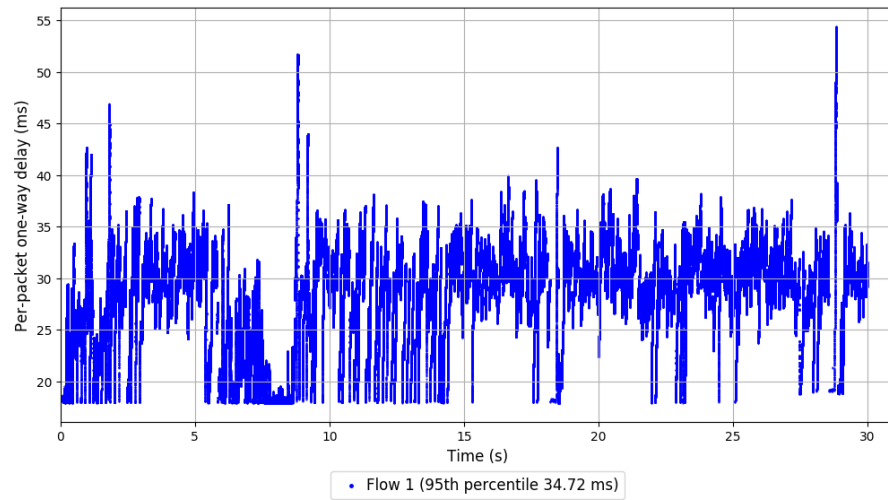
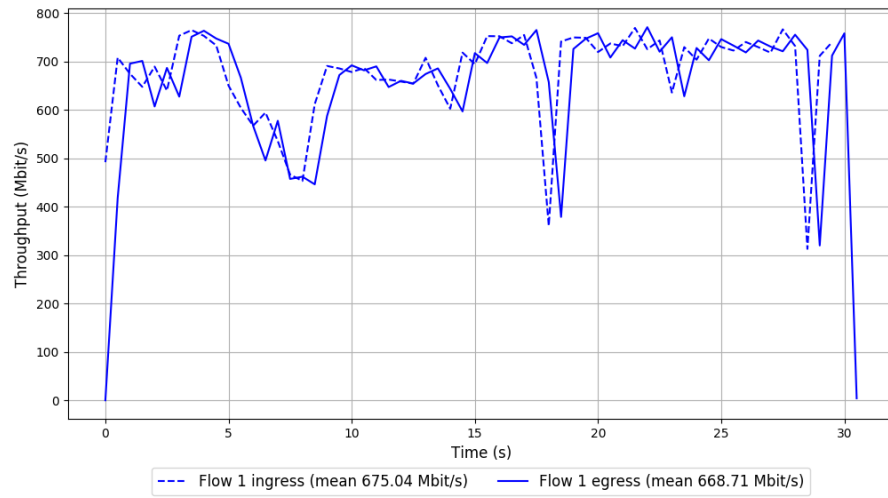
-- Flow 1:

Average throughput: 668.71 Mbit/s

95th percentile per-packet one-way delay: 34.722 ms

Loss rate: 0.94%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-07-09 23:51:54

End at: 2018-07-09 23:52:24

Local clock offset: 0.675 ms

Remote clock offset: 3.72 ms

Below is generated by plot.py at 2018-07-10 00:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 678.61 Mbit/s

95th percentile per-packet one-way delay: 34.198 ms

Loss rate: 0.67%

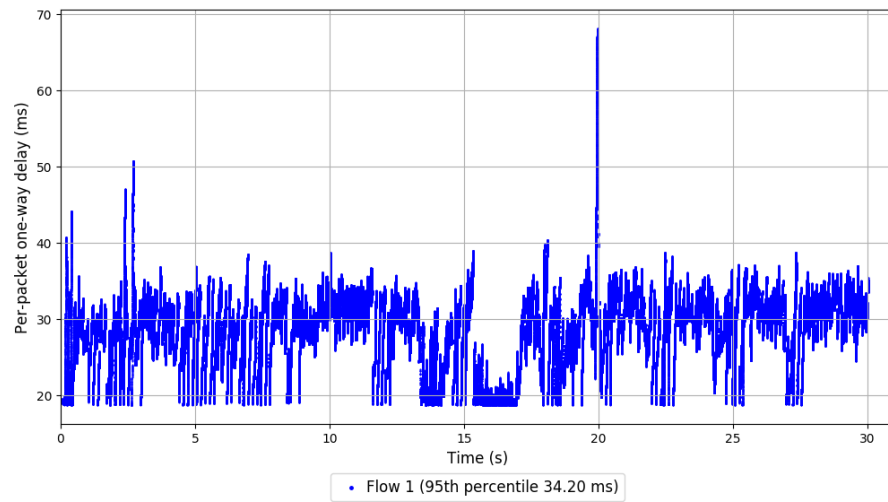
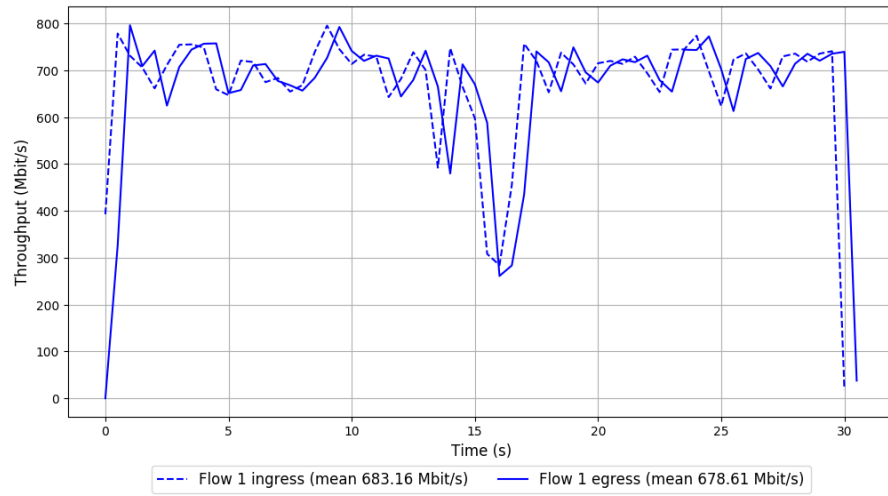
-- Flow 1:

Average throughput: 678.61 Mbit/s

95th percentile per-packet one-way delay: 34.198 ms

Loss rate: 0.67%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-07-09 20:07:34

End at: 2018-07-09 20:08:04

Local clock offset: 0.543 ms

Remote clock offset: 2.276 ms

Below is generated by plot.py at 2018-07-10 00:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.25 Mbit/s

95th percentile per-packet one-way delay: 20.614 ms

Loss rate: 0.05%

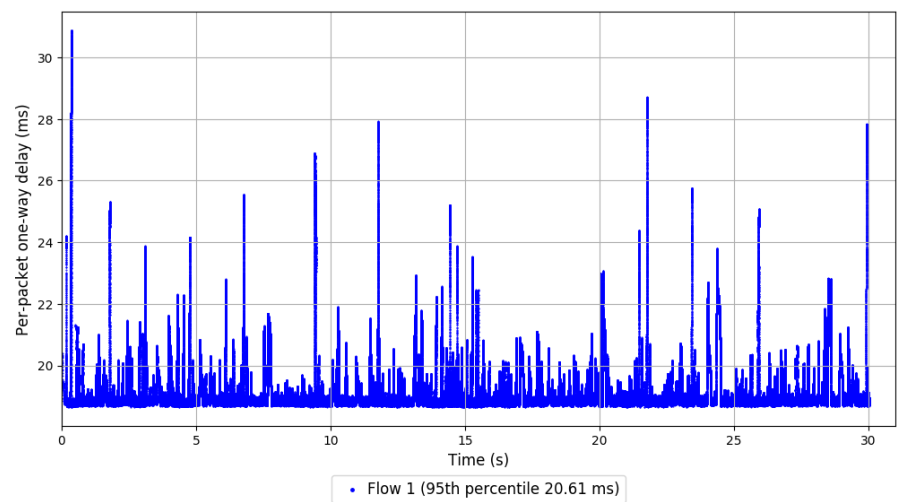
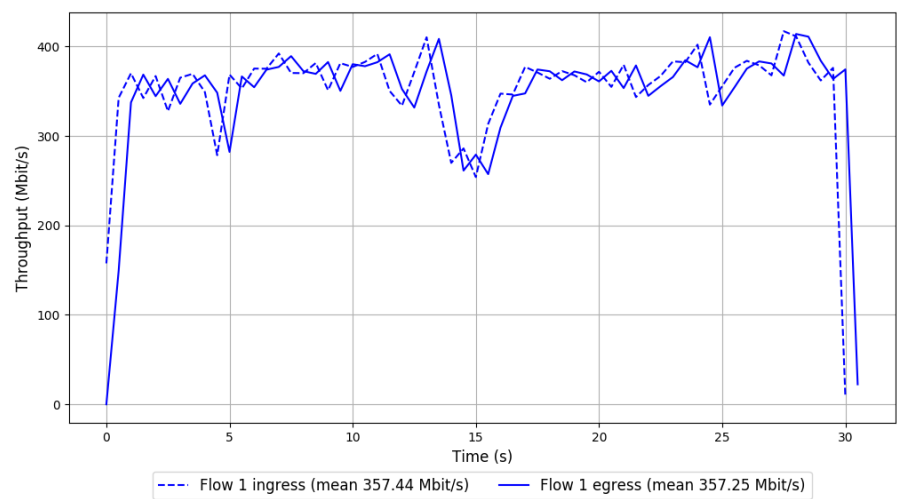
-- Flow 1:

Average throughput: 357.25 Mbit/s

95th percentile per-packet one-way delay: 20.614 ms

Loss rate: 0.05%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-07-09 20:32:50

End at: 2018-07-09 20:33:20

Local clock offset: 0.949 ms

Remote clock offset: 2.899 ms

Below is generated by plot.py at 2018-07-10 00:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.48 Mbit/s

95th percentile per-packet one-way delay: 19.386 ms

Loss rate: 0.00%

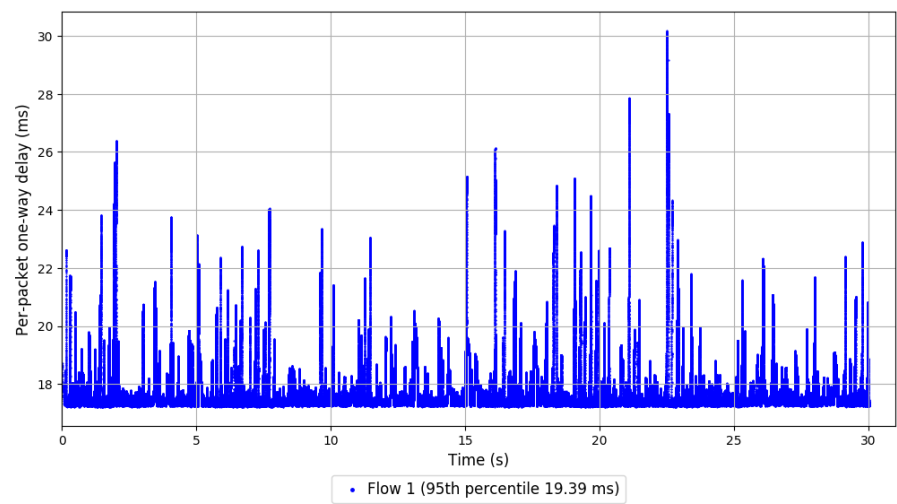
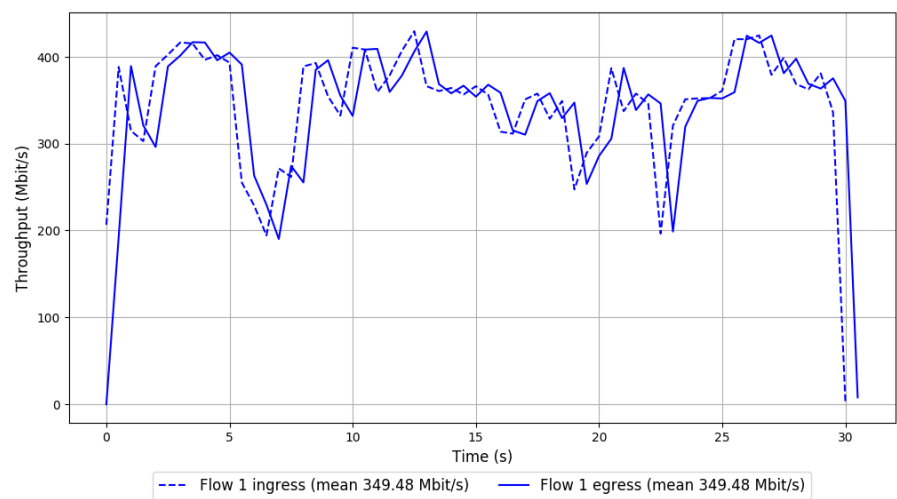
-- Flow 1:

Average throughput: 349.48 Mbit/s

95th percentile per-packet one-way delay: 19.386 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-07-09 20:58:25

End at: 2018-07-09 20:58:55

Local clock offset: 1.179 ms

Remote clock offset: 0.406 ms

Below is generated by plot.py at 2018-07-10 00:39:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 321.91 Mbit/s

95th percentile per-packet one-way delay: 19.438 ms

Loss rate: 0.01%

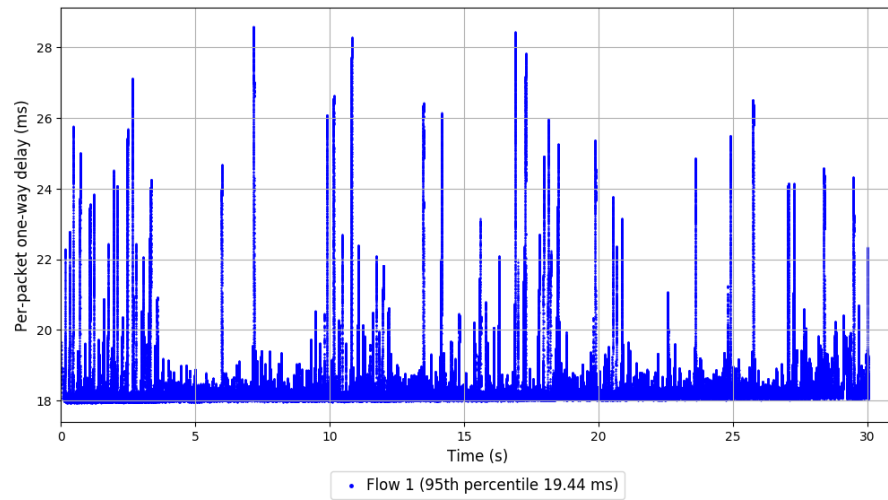
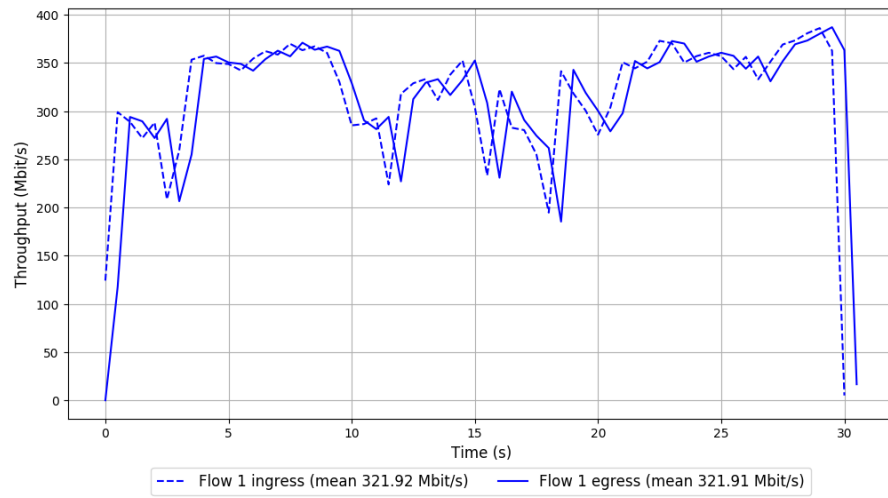
-- Flow 1:

Average throughput: 321.91 Mbit/s

95th percentile per-packet one-way delay: 19.438 ms

Loss rate: 0.01%

Run 3: Report of Copa — Data Link

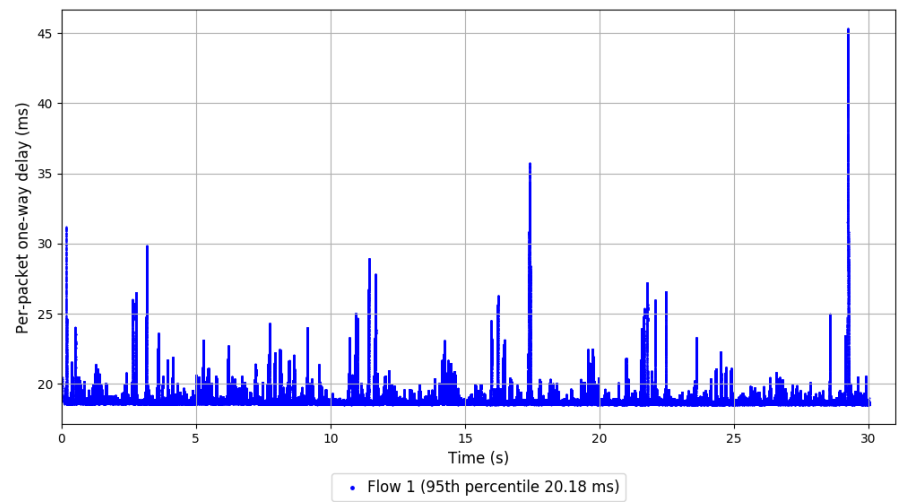
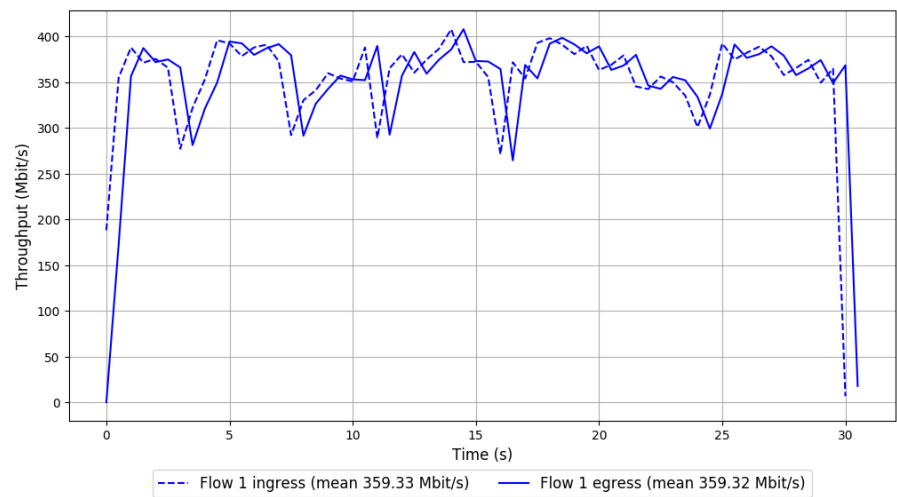


Run 4: Statistics of Copa

Start at: 2018-07-09 21:23:54
End at: 2018-07-09 21:24:24
Local clock offset: 0.999 ms
Remote clock offset: -1.506 ms

Below is generated by plot.py at 2018-07-10 00:39:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.32 Mbit/s
95th percentile per-packet one-way delay: 20.180 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.32 Mbit/s
95th percentile per-packet one-way delay: 20.180 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

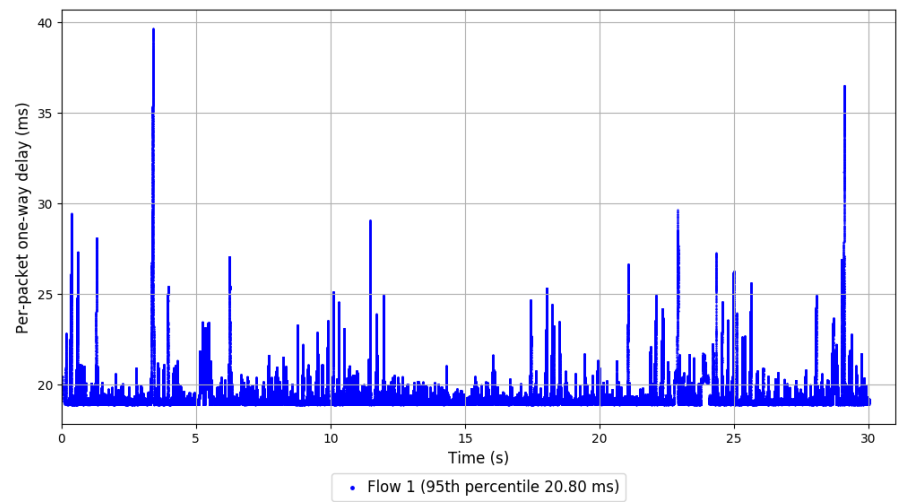
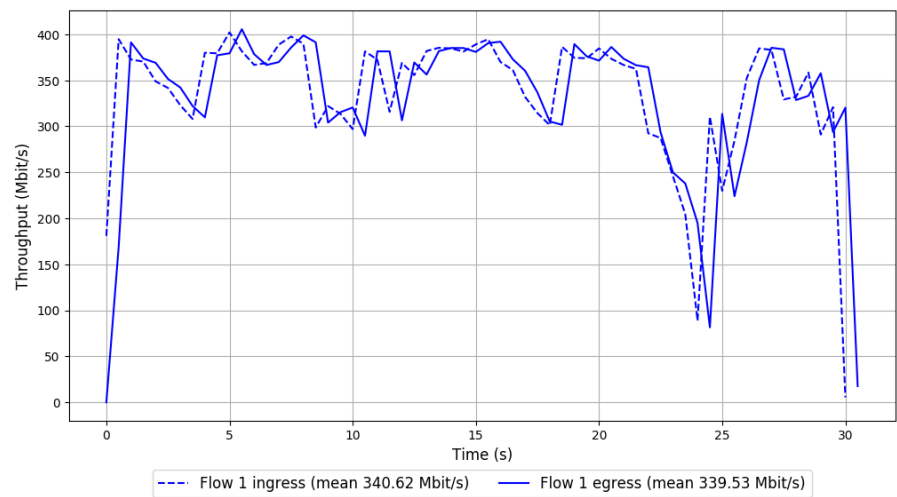


Run 5: Statistics of Copa

Start at: 2018-07-09 21:49:19
End at: 2018-07-09 21:49:49
Local clock offset: 1.276 ms
Remote clock offset: -0.532 ms

Below is generated by plot.py at 2018-07-10 00:39:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 339.53 Mbit/s
95th percentile per-packet one-way delay: 20.795 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 339.53 Mbit/s
95th percentile per-packet one-way delay: 20.795 ms
Loss rate: 0.32%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-07-09 22:14:58

End at: 2018-07-09 22:15:28

Local clock offset: 1.091 ms

Remote clock offset: -2.62 ms

Below is generated by plot.py at 2018-07-10 00:39:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.72 Mbit/s

95th percentile per-packet one-way delay: 20.890 ms

Loss rate: 0.25%

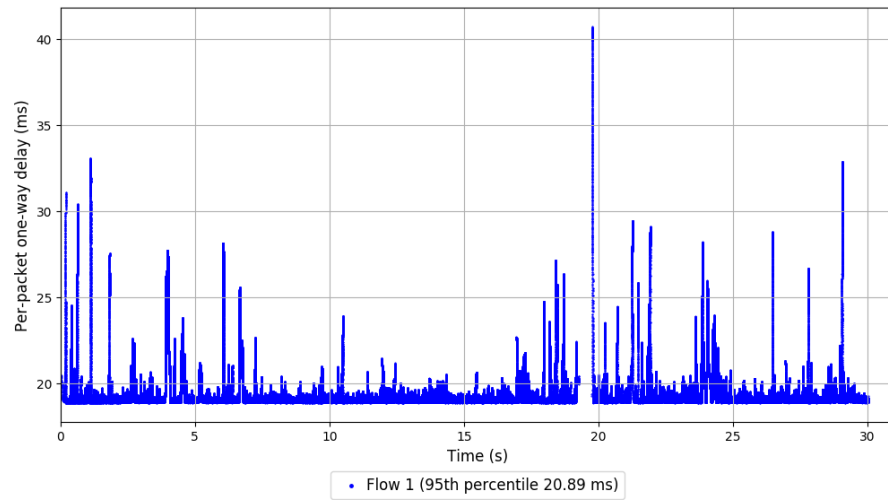
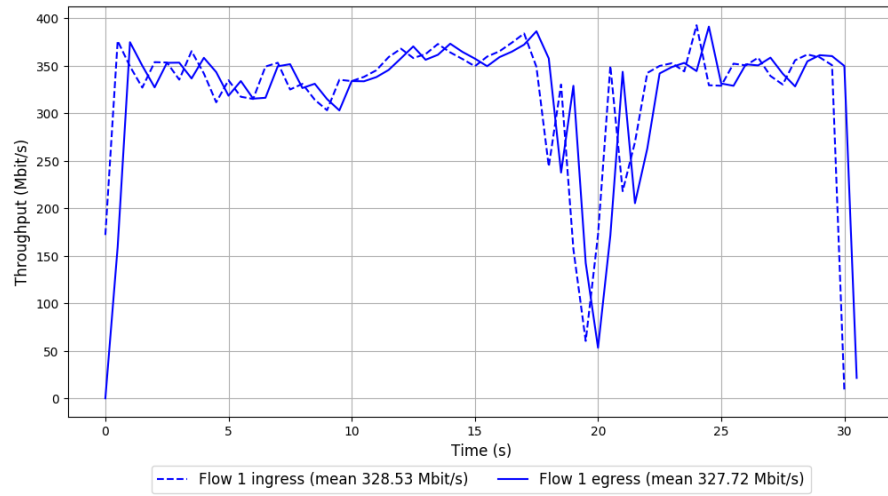
-- Flow 1:

Average throughput: 327.72 Mbit/s

95th percentile per-packet one-way delay: 20.890 ms

Loss rate: 0.25%

Run 6: Report of Copa — Data Link

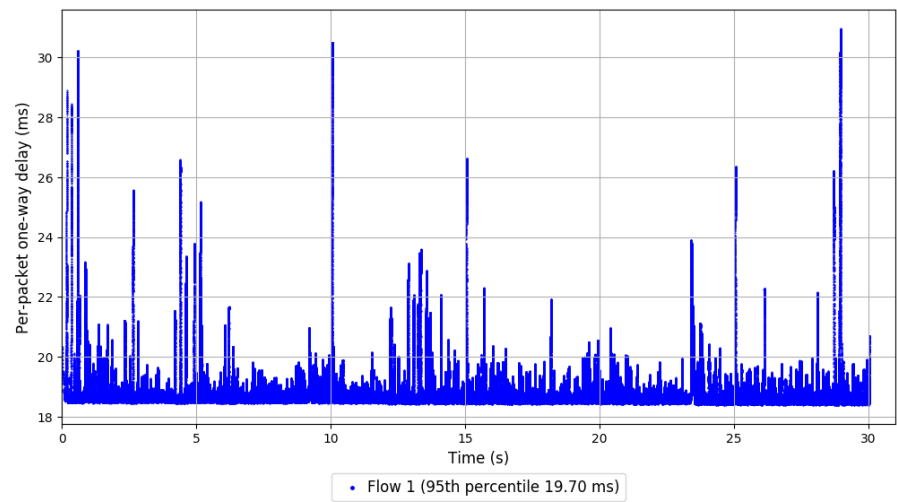
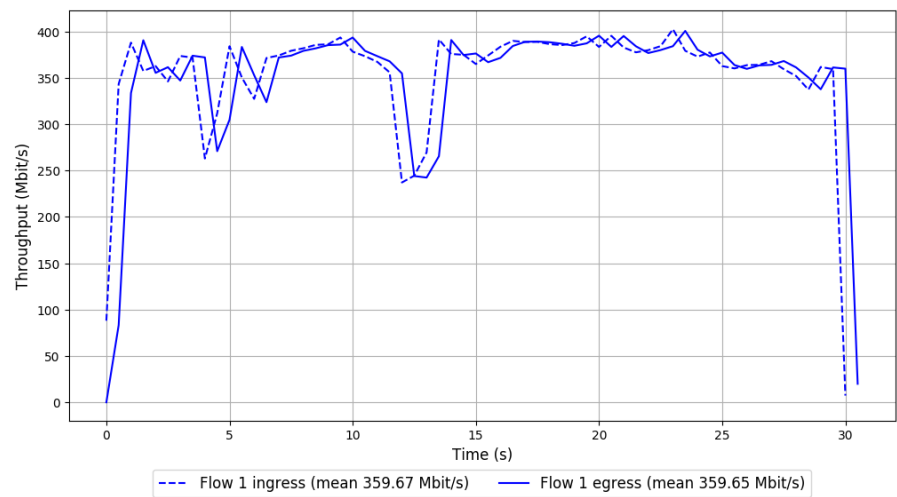


Run 7: Statistics of Copa

Start at: 2018-07-09 22:40:21
End at: 2018-07-09 22:40:51
Local clock offset: 0.746 ms
Remote clock offset: -0.901 ms

Below is generated by plot.py at 2018-07-10 00:46:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 359.65 Mbit/s
95th percentile per-packet one-way delay: 19.704 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.65 Mbit/s
95th percentile per-packet one-way delay: 19.704 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-07-09 23:05:50

End at: 2018-07-09 23:06:20

Local clock offset: 0.728 ms

Remote clock offset: 1.263 ms

Below is generated by plot.py at 2018-07-10 00:46:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.75 Mbit/s

95th percentile per-packet one-way delay: 20.141 ms

Loss rate: 0.00%

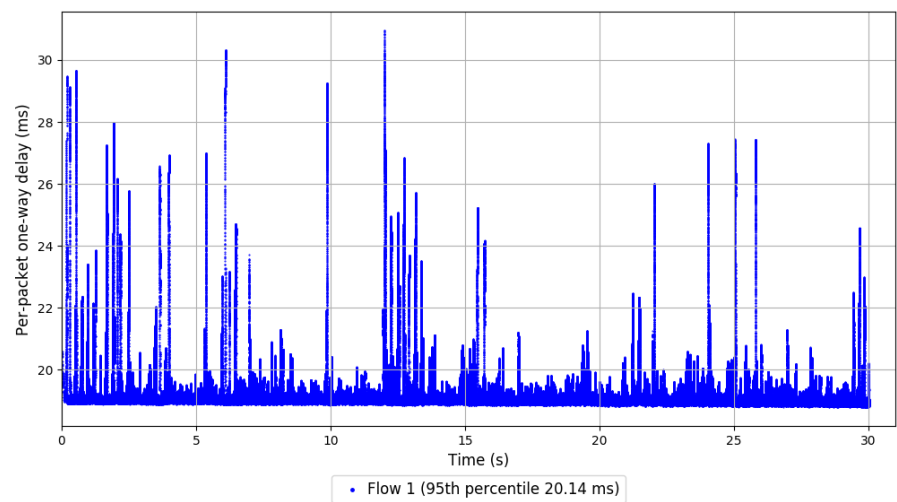
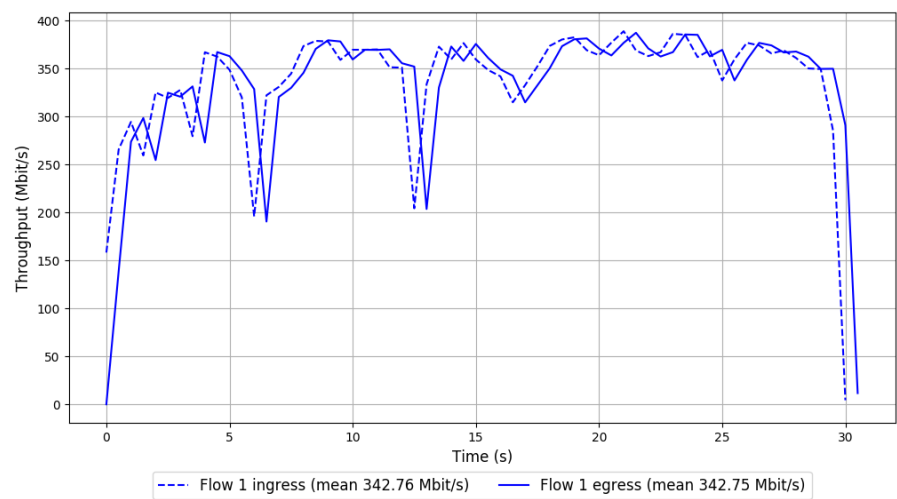
-- Flow 1:

Average throughput: 342.75 Mbit/s

95th percentile per-packet one-way delay: 20.141 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-07-09 23:31:10

End at: 2018-07-09 23:31:40

Local clock offset: 1.063 ms

Remote clock offset: 4.151 ms

Below is generated by plot.py at 2018-07-10 00:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.19 Mbit/s

95th percentile per-packet one-way delay: 19.413 ms

Loss rate: 0.00%

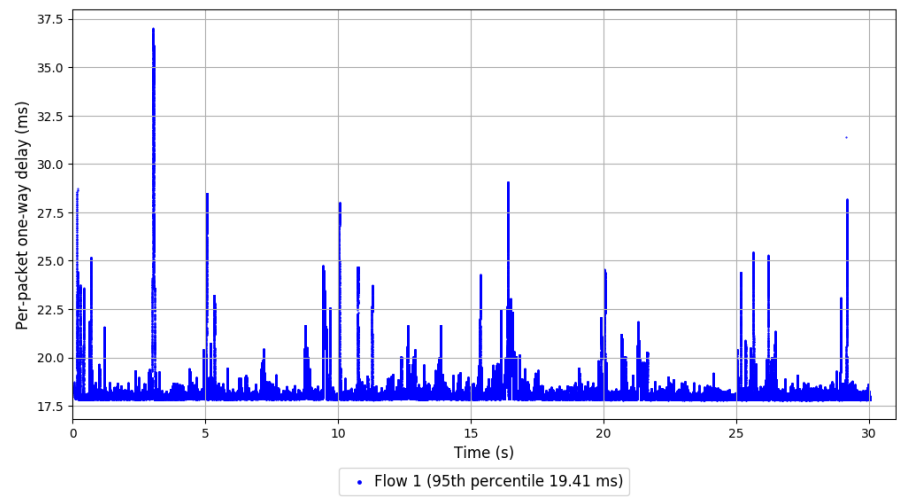
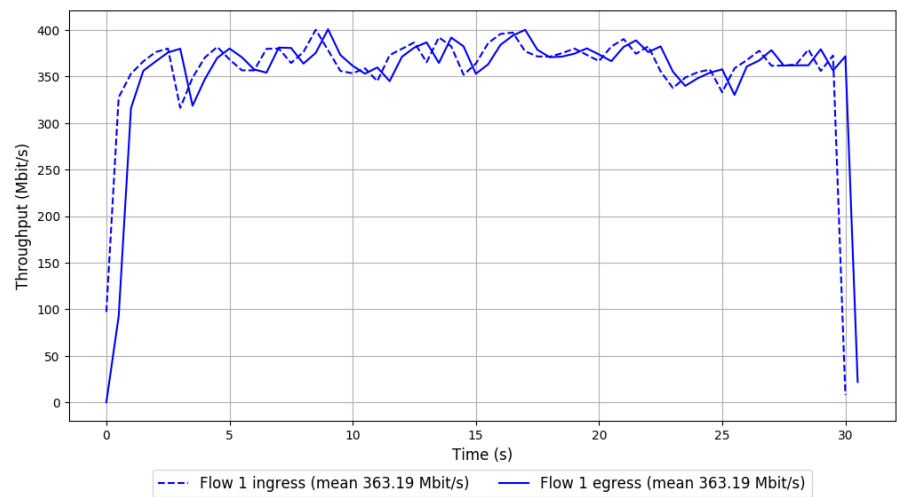
-- Flow 1:

Average throughput: 363.19 Mbit/s

95th percentile per-packet one-way delay: 19.413 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-07-09 23:56:34

End at: 2018-07-09 23:57:04

Local clock offset: 0.603 ms

Remote clock offset: 3.665 ms

Below is generated by plot.py at 2018-07-10 00:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.60 Mbit/s

95th percentile per-packet one-way delay: 18.995 ms

Loss rate: 0.12%

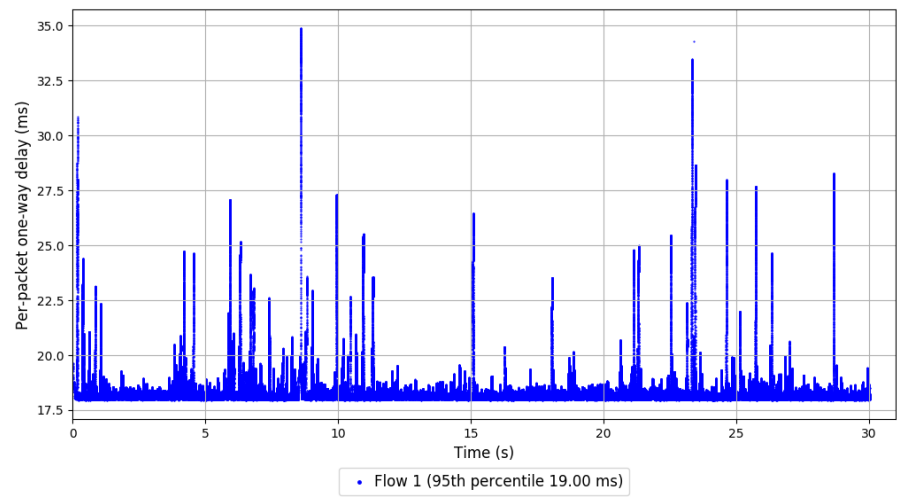
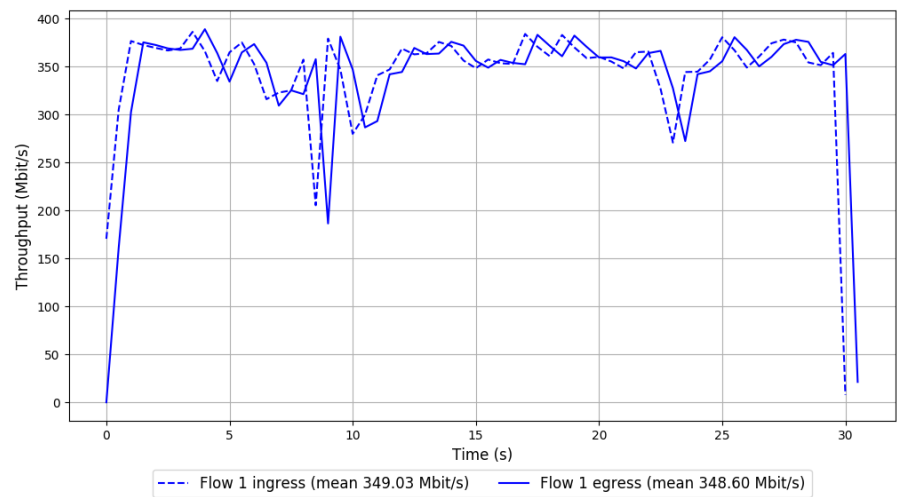
-- Flow 1:

Average throughput: 348.60 Mbit/s

95th percentile per-packet one-way delay: 18.995 ms

Loss rate: 0.12%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-07-09 20:09:12

End at: 2018-07-09 20:09:42

Local clock offset: 0.544 ms

Remote clock offset: 2.265 ms

Below is generated by plot.py at 2018-07-10 00:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.19 Mbit/s

95th percentile per-packet one-way delay: 24.513 ms

Loss rate: 0.12%

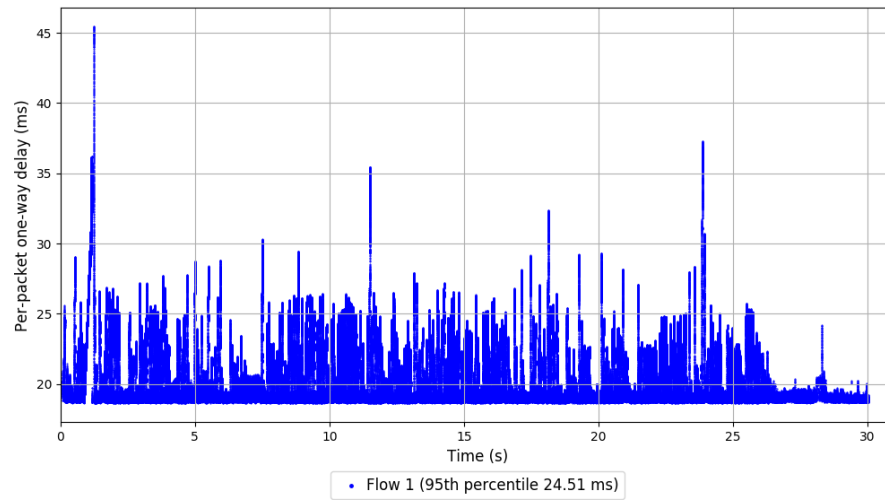
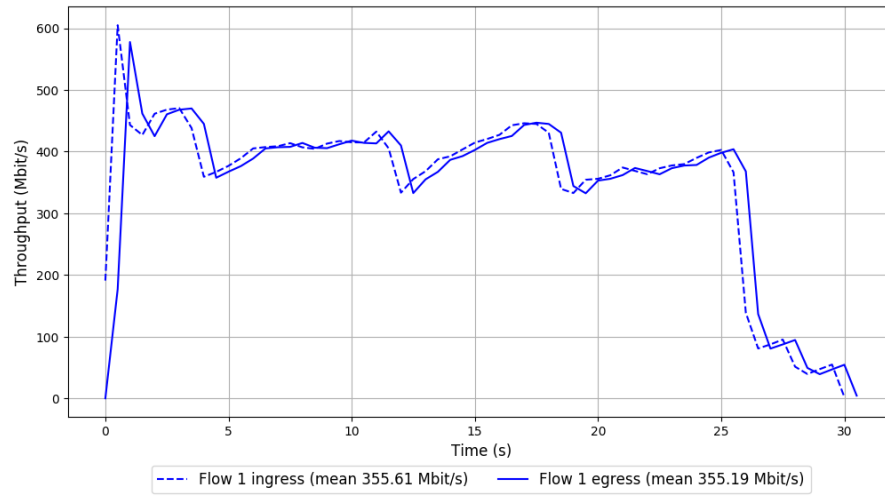
-- Flow 1:

Average throughput: 355.19 Mbit/s

95th percentile per-packet one-way delay: 24.513 ms

Loss rate: 0.12%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-07-09 20:34:28

End at: 2018-07-09 20:34:58

Local clock offset: 0.959 ms

Remote clock offset: 2.882 ms

Below is generated by plot.py at 2018-07-10 00:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 399.19 Mbit/s

95th percentile per-packet one-way delay: 24.350 ms

Loss rate: 0.07%

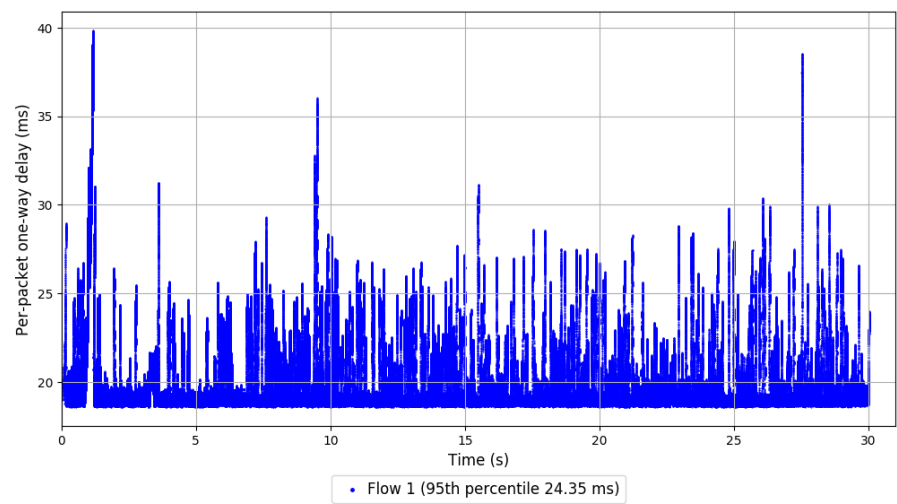
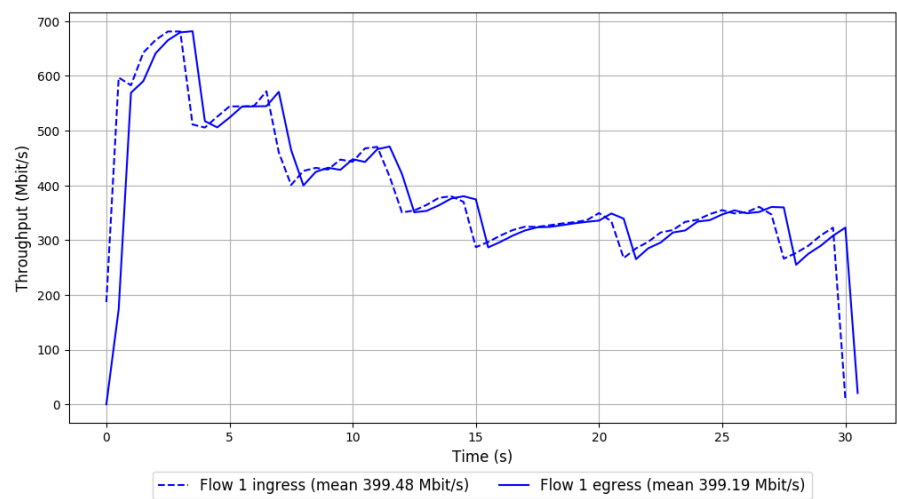
-- Flow 1:

Average throughput: 399.19 Mbit/s

95th percentile per-packet one-way delay: 24.350 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-07-09 21:00:01

End at: 2018-07-09 21:00:31

Local clock offset: 1.227 ms

Remote clock offset: 0.126 ms

Below is generated by plot.py at 2018-07-10 00:47:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.26 Mbit/s

95th percentile per-packet one-way delay: 22.338 ms

Loss rate: 0.03%

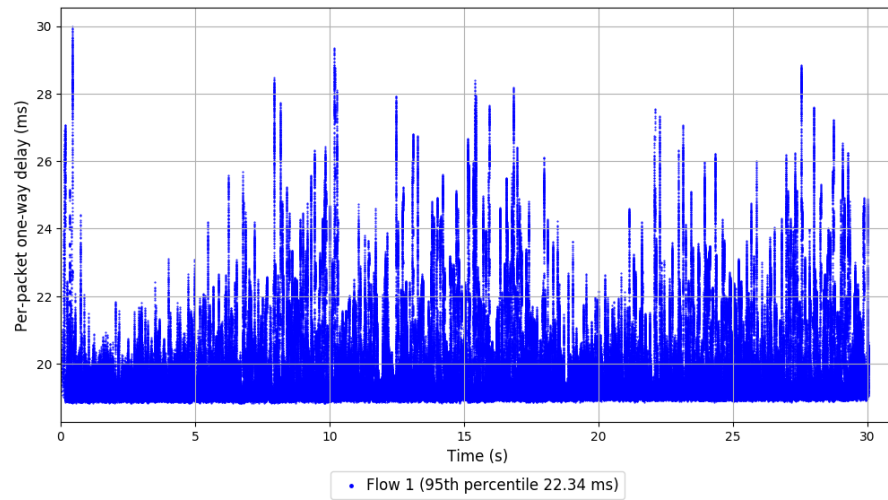
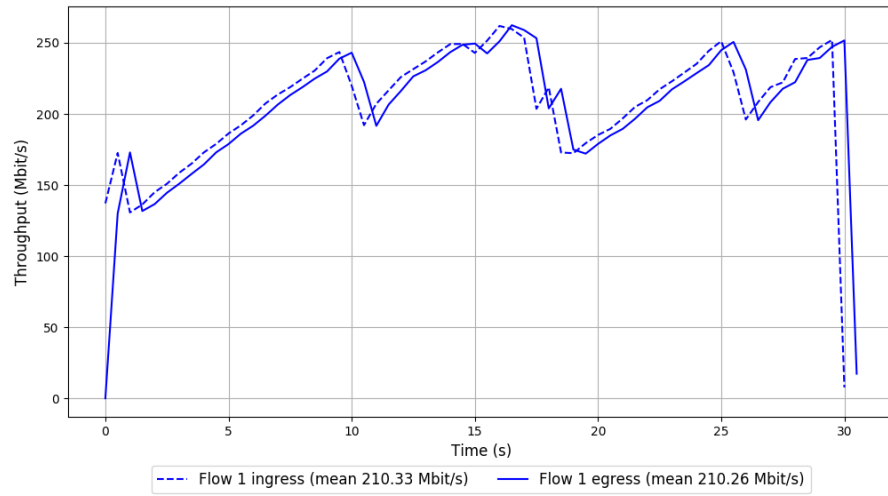
-- Flow 1:

Average throughput: 210.26 Mbit/s

95th percentile per-packet one-way delay: 22.338 ms

Loss rate: 0.03%

Run 3: Report of TCP Cubic — Data Link

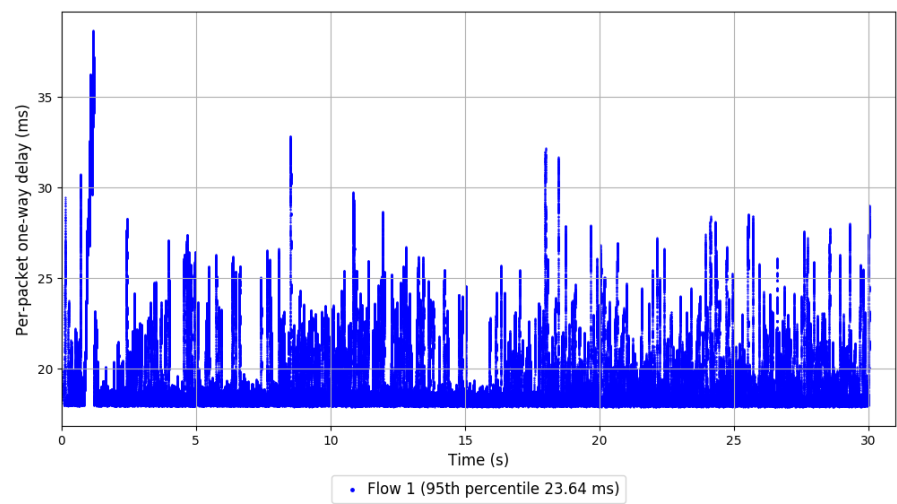
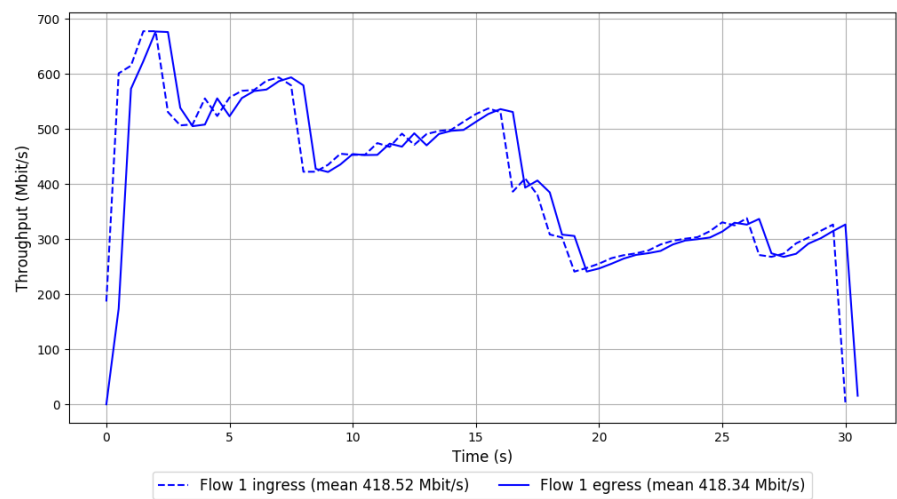


Run 4: Statistics of TCP Cubic

Start at: 2018-07-09 21:25:33
End at: 2018-07-09 21:26:03
Local clock offset: 1.032 ms
Remote clock offset: -1.235 ms

Below is generated by plot.py at 2018-07-10 00:47:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 418.34 Mbit/s
95th percentile per-packet one-way delay: 23.644 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 418.34 Mbit/s
95th percentile per-packet one-way delay: 23.644 ms
Loss rate: 0.04%

Run 4: Report of TCP Cubic — Data Link

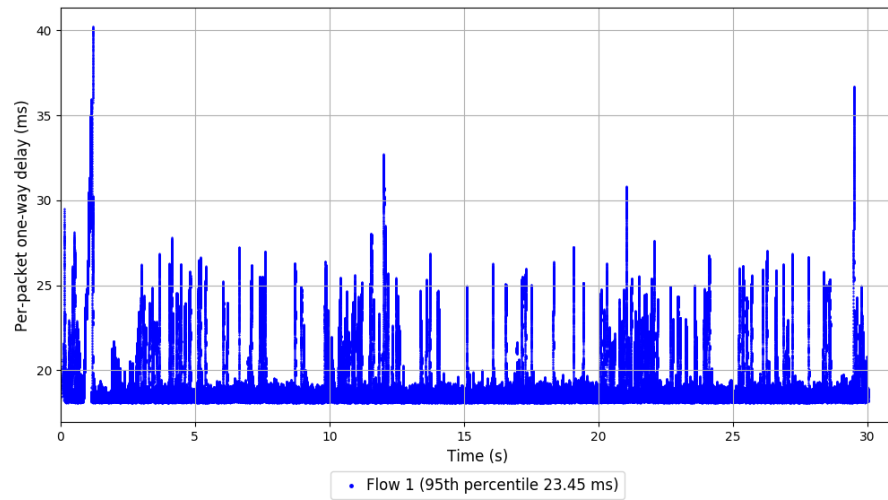
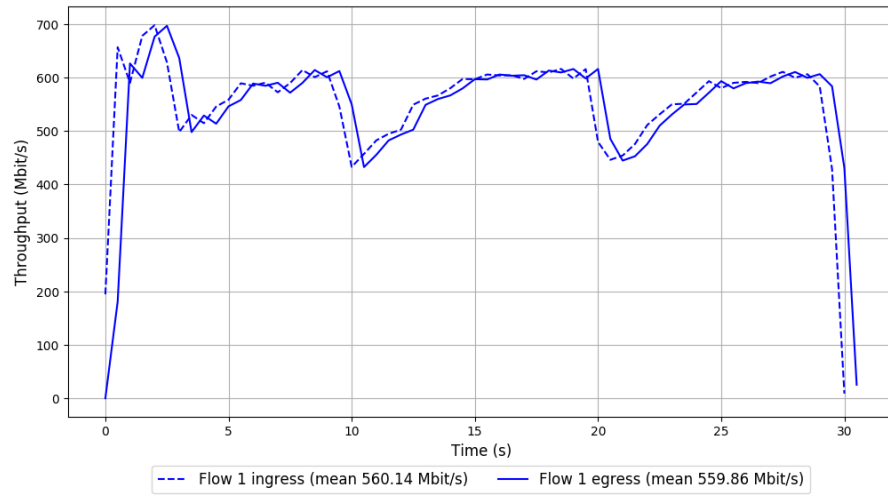


Run 5: Statistics of TCP Cubic

Start at: 2018-07-09 21:50:57
End at: 2018-07-09 21:51:27
Local clock offset: 1.281 ms
Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-07-10 00:48:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 559.86 Mbit/s
95th percentile per-packet one-way delay: 23.454 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 559.86 Mbit/s
95th percentile per-packet one-way delay: 23.454 ms
Loss rate: 0.05%

Run 5: Report of TCP Cubic — Data Link

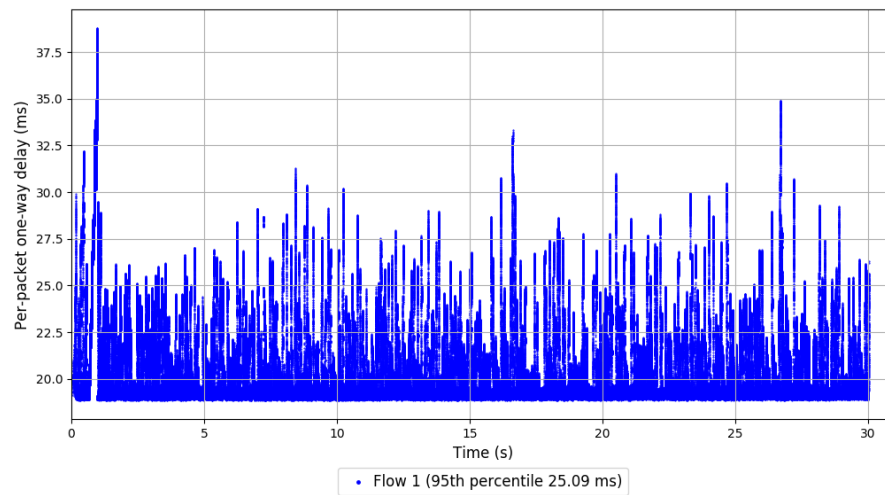
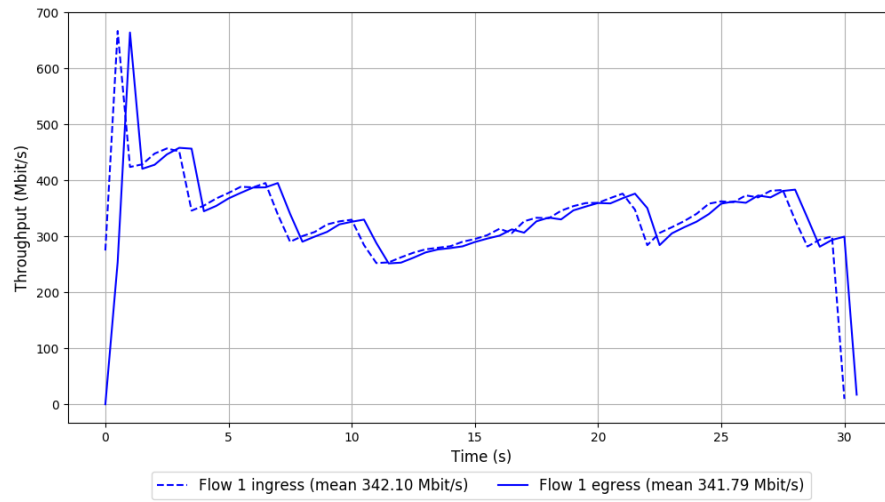


Run 6: Statistics of TCP Cubic

Start at: 2018-07-09 22:16:34
End at: 2018-07-09 22:17:04
Local clock offset: 1.162 ms
Remote clock offset: -2.651 ms

Below is generated by plot.py at 2018-07-10 00:48:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 341.79 Mbit/s
95th percentile per-packet one-way delay: 25.088 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 341.79 Mbit/s
95th percentile per-packet one-way delay: 25.088 ms
Loss rate: 0.09%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-07-09 22:41:59

End at: 2018-07-09 22:42:29

Local clock offset: 0.734 ms

Remote clock offset: -0.58 ms

Below is generated by plot.py at 2018-07-10 00:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 569.83 Mbit/s

95th percentile per-packet one-way delay: 23.987 ms

Loss rate: 0.04%

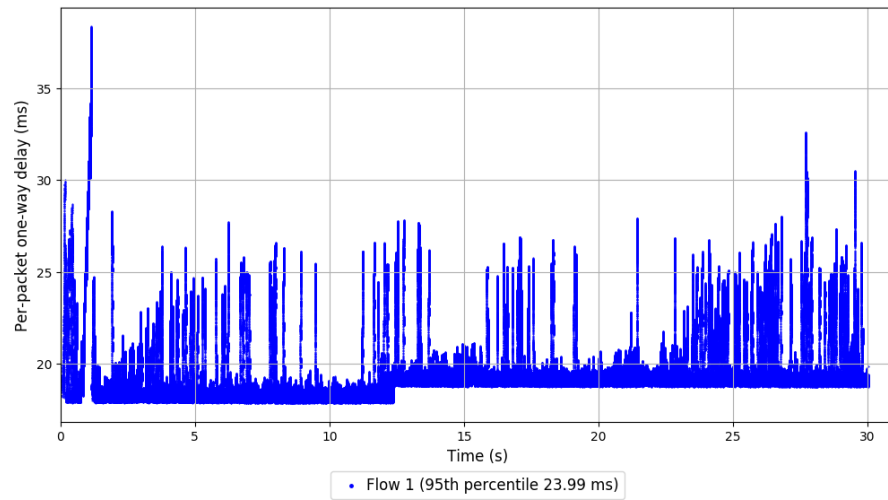
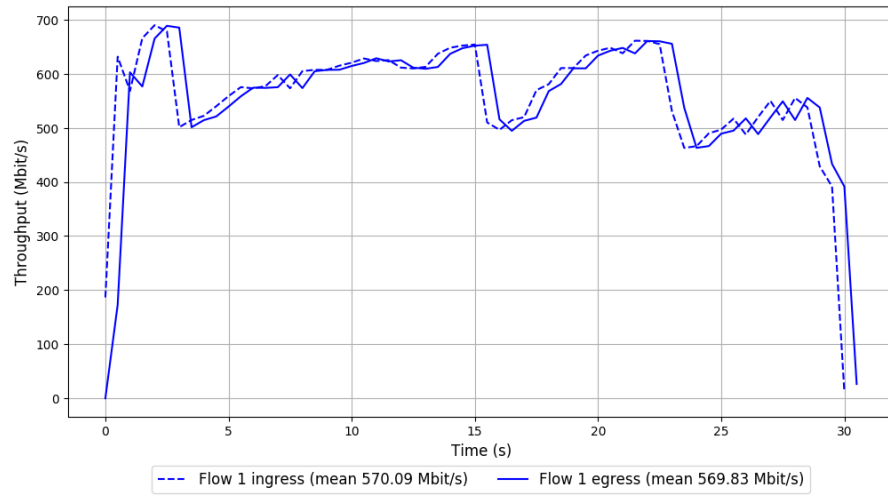
-- Flow 1:

Average throughput: 569.83 Mbit/s

95th percentile per-packet one-way delay: 23.987 ms

Loss rate: 0.04%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-07-09 23:07:32

End at: 2018-07-09 23:08:02

Local clock offset: 0.84 ms

Remote clock offset: 1.558 ms

Below is generated by plot.py at 2018-07-10 00:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.44 Mbit/s

95th percentile per-packet one-way delay: 24.312 ms

Loss rate: 0.08%

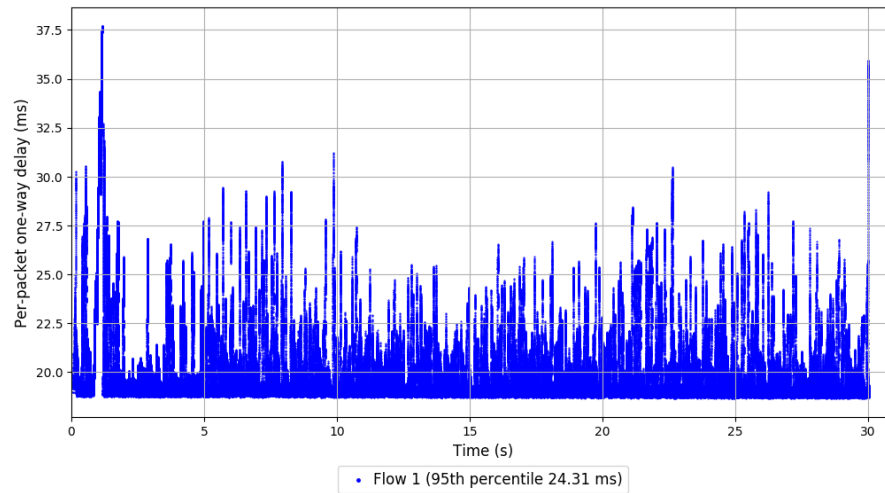
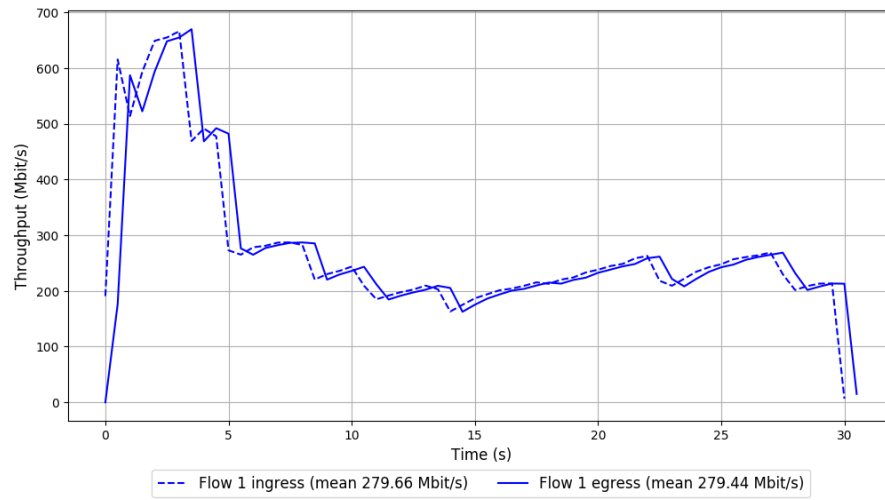
-- Flow 1:

Average throughput: 279.44 Mbit/s

95th percentile per-packet one-way delay: 24.312 ms

Loss rate: 0.08%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-07-09 23:32:49

End at: 2018-07-09 23:33:19

Local clock offset: 1.038 ms

Remote clock offset: 4.246 ms

Below is generated by plot.py at 2018-07-10 00:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 328.69 Mbit/s

95th percentile per-packet one-way delay: 22.124 ms

Loss rate: 0.13%

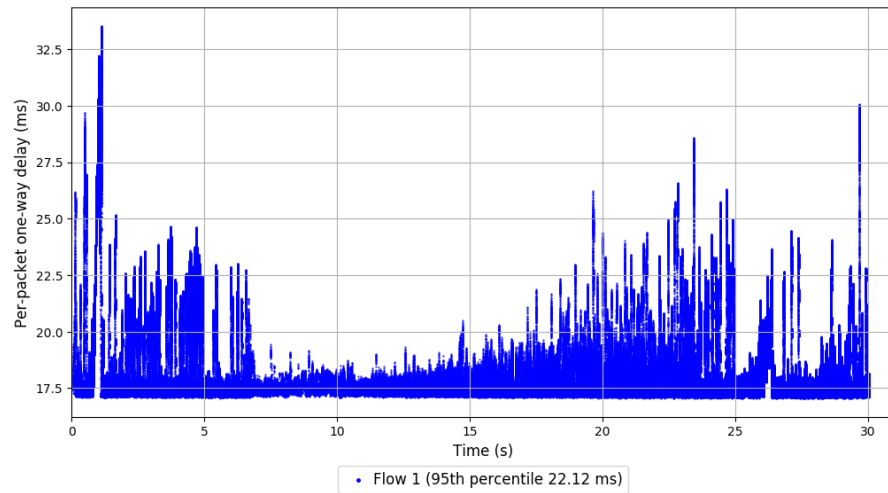
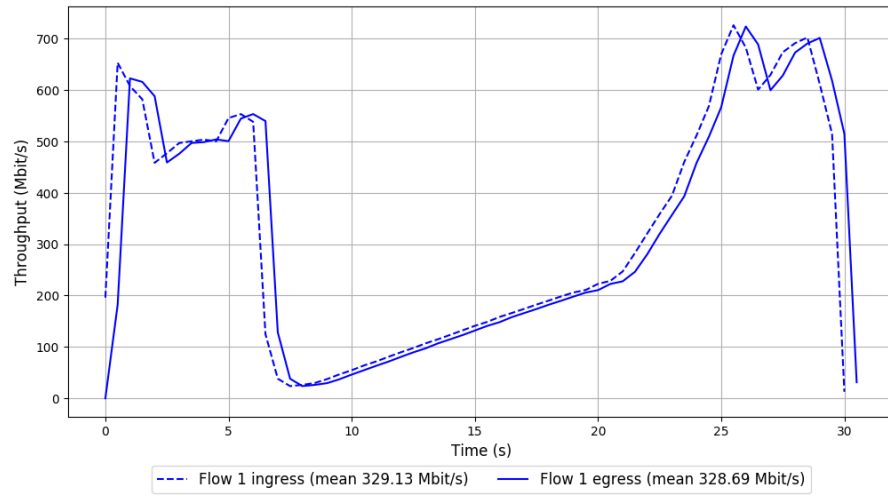
-- Flow 1:

Average throughput: 328.69 Mbit/s

95th percentile per-packet one-way delay: 22.124 ms

Loss rate: 0.13%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-07-09 23:58:12

End at: 2018-07-09 23:58:42

Local clock offset: 0.455 ms

Remote clock offset: 3.669 ms

Below is generated by plot.py at 2018-07-10 00:50:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 244.08 Mbit/s

95th percentile per-packet one-way delay: 23.975 ms

Loss rate: 0.18%

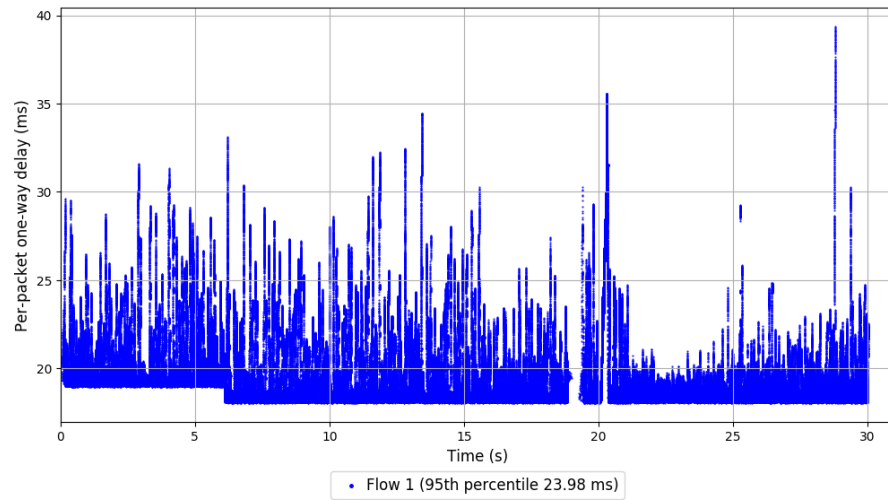
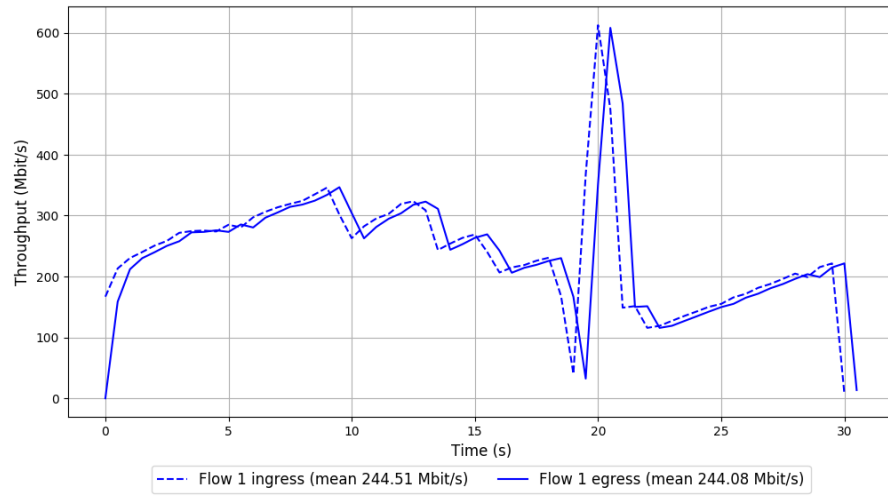
-- Flow 1:

Average throughput: 244.08 Mbit/s

95th percentile per-packet one-way delay: 23.975 ms

Loss rate: 0.18%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-07-09 20:15:08

End at: 2018-07-09 20:15:38

Local clock offset: 0.578 ms

Remote clock offset: 2.315 ms

Below is generated by plot.py at 2018-07-10 01:00:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 866.29 Mbit/s

95th percentile per-packet one-way delay: 56.359 ms

Loss rate: 5.01%

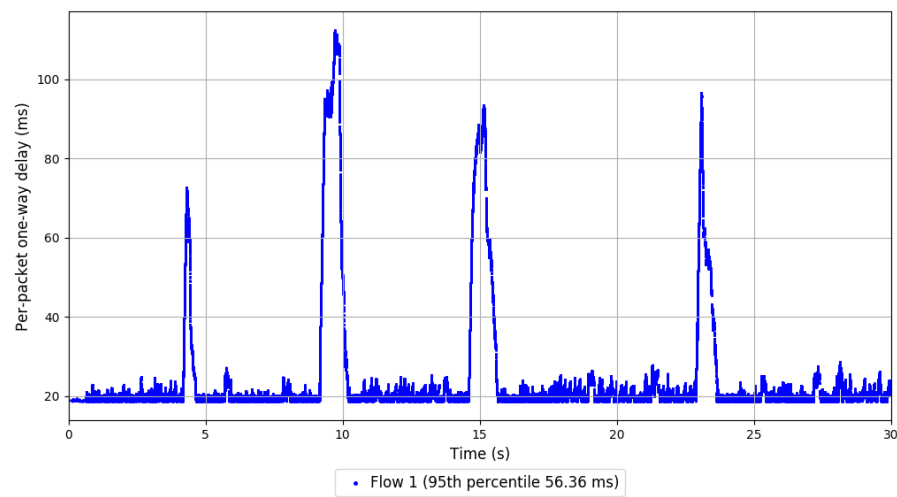
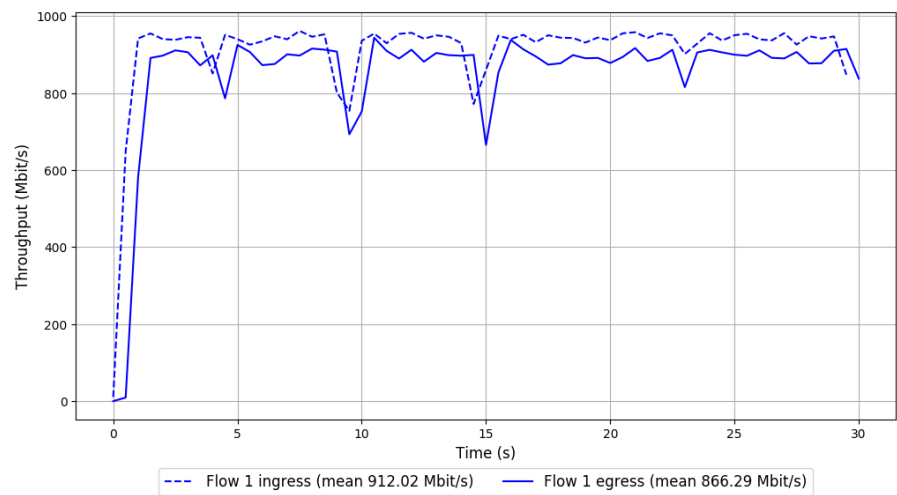
-- Flow 1:

Average throughput: 866.29 Mbit/s

95th percentile per-packet one-way delay: 56.359 ms

Loss rate: 5.01%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-07-09 20:40:32

End at: 2018-07-09 20:41:02

Local clock offset: 0.992 ms

Remote clock offset: 2.999 ms

Below is generated by plot.py at 2018-07-10 01:00:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 794.36 Mbit/s

95th percentile per-packet one-way delay: 101.795 ms

Loss rate: 3.90%

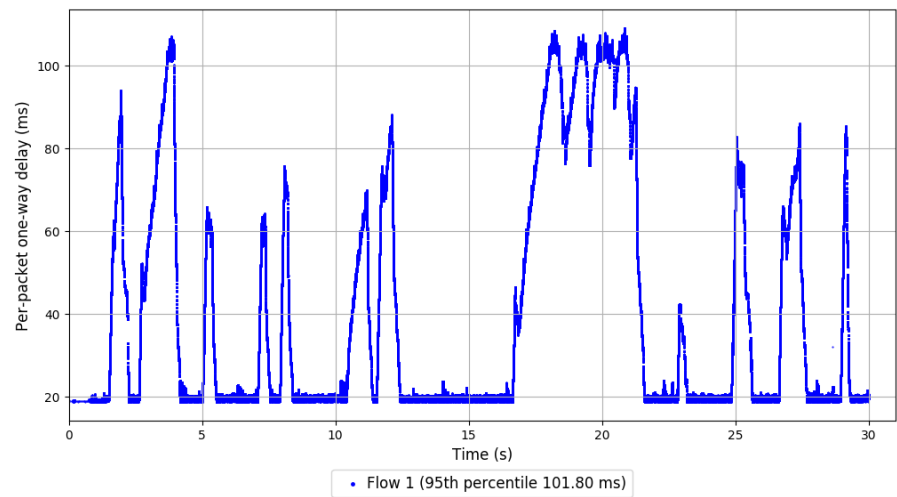
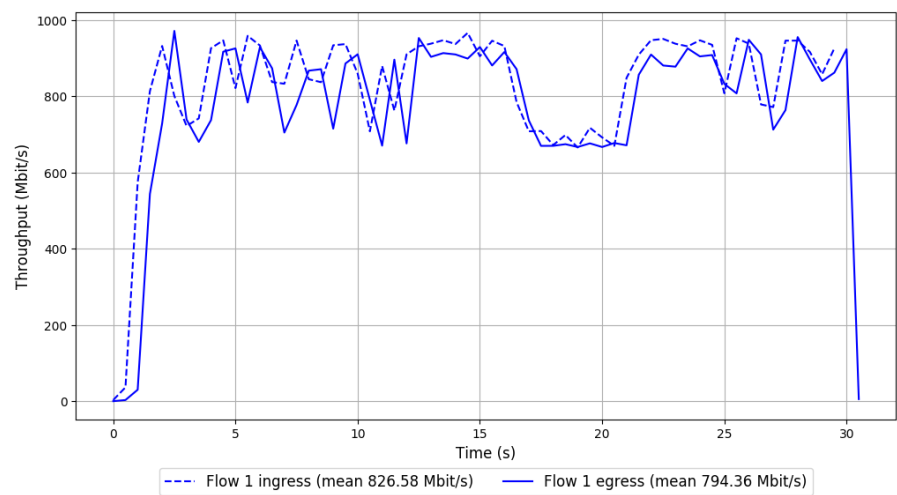
-- Flow 1:

Average throughput: 794.36 Mbit/s

95th percentile per-packet one-way delay: 101.795 ms

Loss rate: 3.90%

Run 2: Report of FillP — Data Link

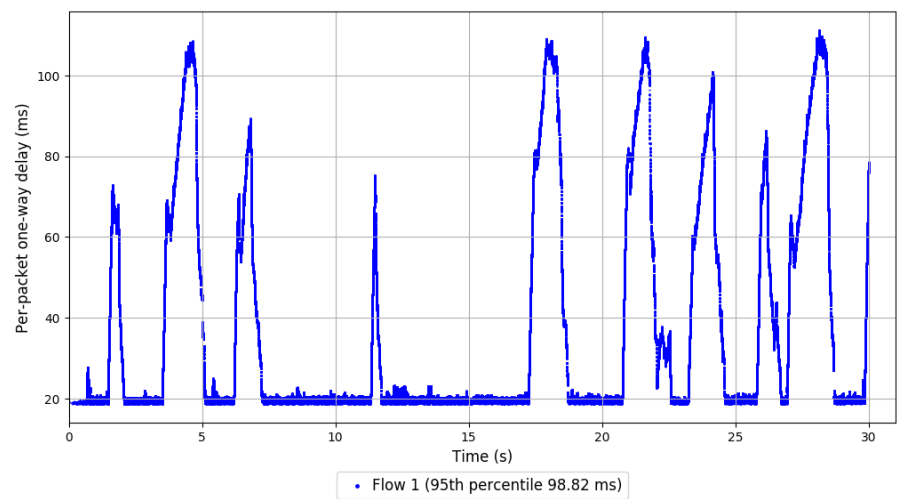
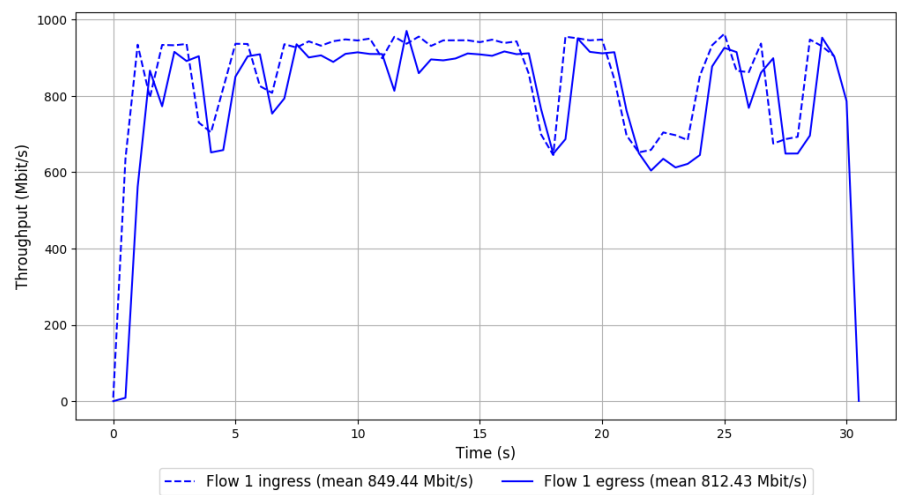


Run 3: Statistics of FillP

Start at: 2018-07-09 21:05:53
End at: 2018-07-09 21:06:23
Local clock offset: 1.019 ms
Remote clock offset: -0.579 ms

Below is generated by plot.py at 2018-07-10 01:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 812.43 Mbit/s
95th percentile per-packet one-way delay: 98.822 ms
Loss rate: 4.36%
-- Flow 1:
Average throughput: 812.43 Mbit/s
95th percentile per-packet one-way delay: 98.822 ms
Loss rate: 4.36%

Run 3: Report of FillP — Data Link

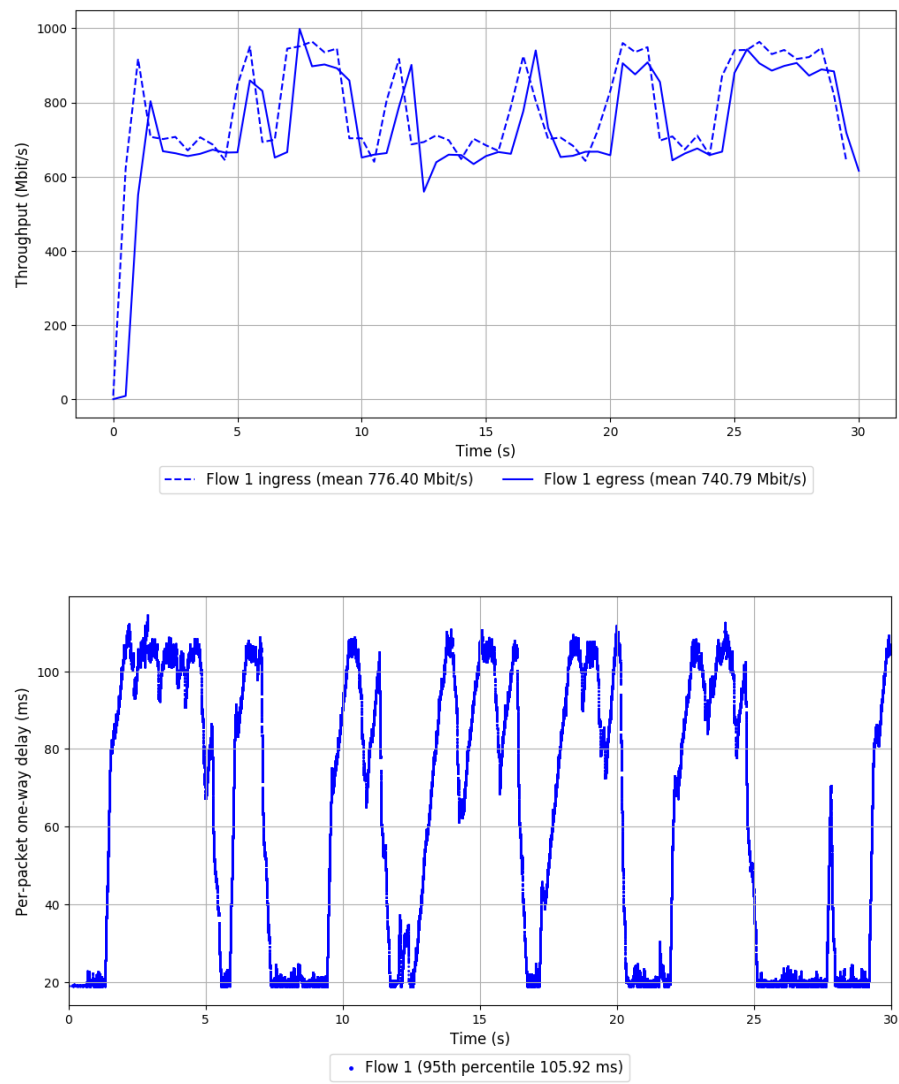


Run 4: Statistics of FillP

Start at: 2018-07-09 21:31:38
End at: 2018-07-09 21:32:08
Local clock offset: 1.007 ms
Remote clock offset: -0.807 ms

Below is generated by plot.py at 2018-07-10 01:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 740.79 Mbit/s
95th percentile per-packet one-way delay: 105.921 ms
Loss rate: 4.59%
-- Flow 1:
Average throughput: 740.79 Mbit/s
95th percentile per-packet one-way delay: 105.921 ms
Loss rate: 4.59%

Run 4: Report of FillP — Data Link

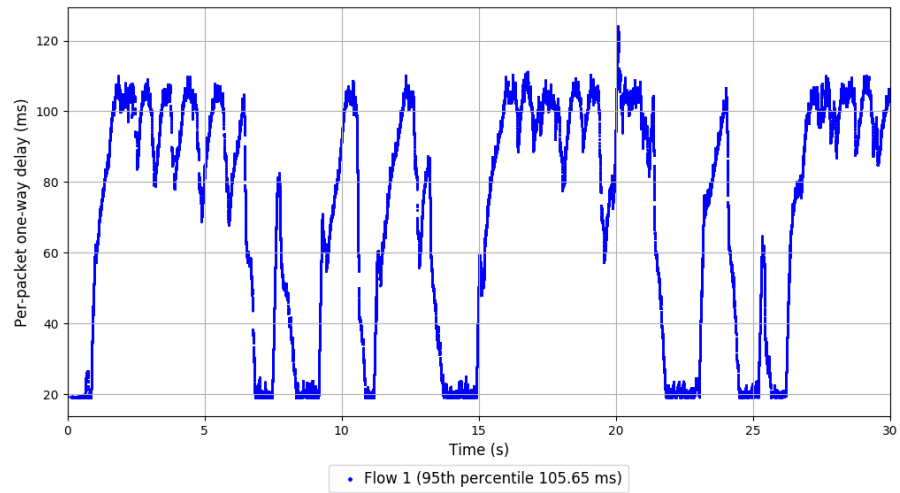
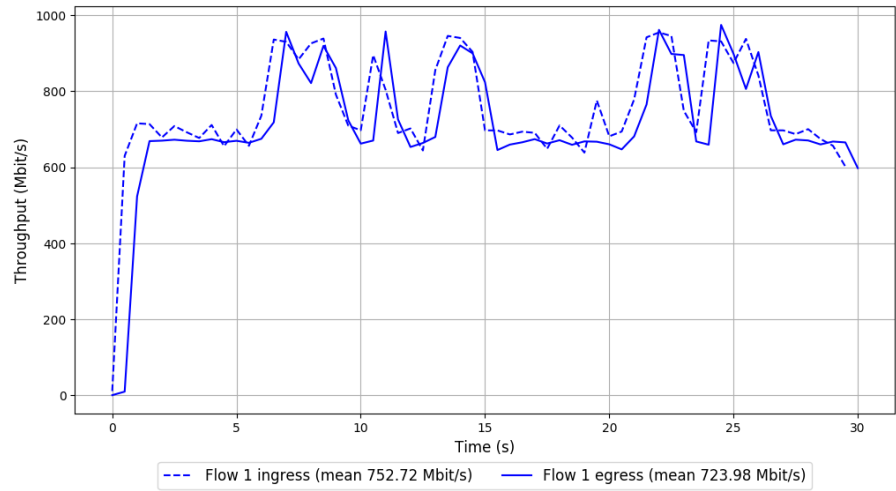


Run 5: Statistics of FillP

Start at: 2018-07-09 21:57:04
End at: 2018-07-09 21:57:34
Local clock offset: 1.466 ms
Remote clock offset: -0.502 ms

Below is generated by plot.py at 2018-07-10 01:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 723.98 Mbit/s
95th percentile per-packet one-way delay: 105.650 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 723.98 Mbit/s
95th percentile per-packet one-way delay: 105.650 ms
Loss rate: 3.82%

Run 5: Report of FillP — Data Link

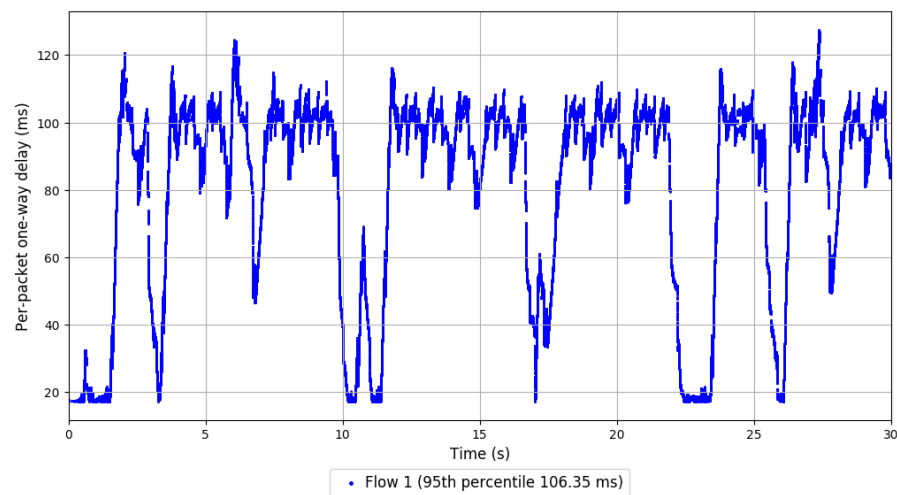
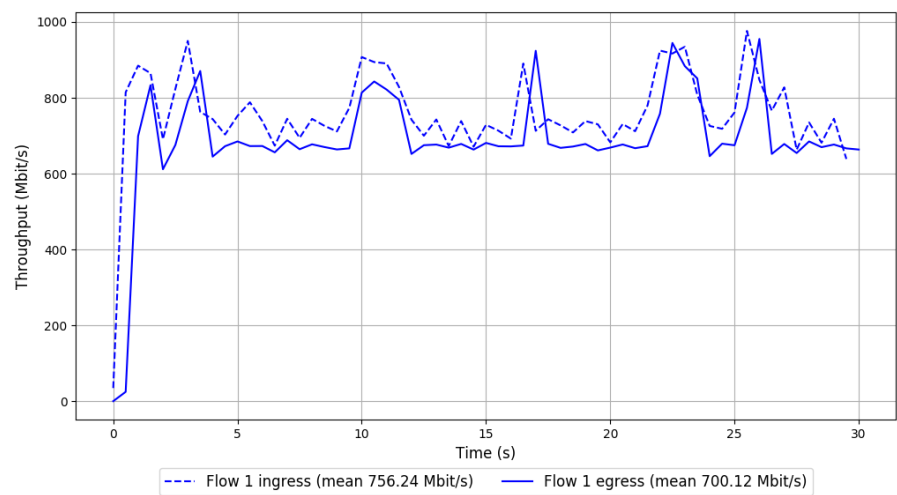


Run 6: Statistics of FillP

Start at: 2018-07-09 22:22:35
End at: 2018-07-09 22:23:05
Local clock offset: 1.023 ms
Remote clock offset: -2.953 ms

Below is generated by plot.py at 2018-07-10 01:00:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 700.12 Mbit/s
95th percentile per-packet one-way delay: 106.353 ms
Loss rate: 7.42%
-- Flow 1:
Average throughput: 700.12 Mbit/s
95th percentile per-packet one-way delay: 106.353 ms
Loss rate: 7.42%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-07-09 22:48:12

End at: 2018-07-09 22:48:42

Local clock offset: 0.69 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-07-10 01:01:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 691.15 Mbit/s

95th percentile per-packet one-way delay: 105.036 ms

Loss rate: 3.87%

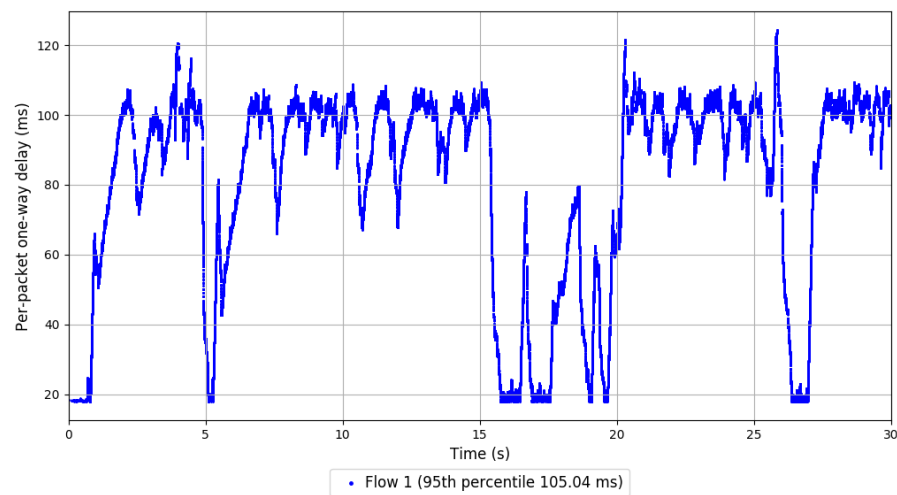
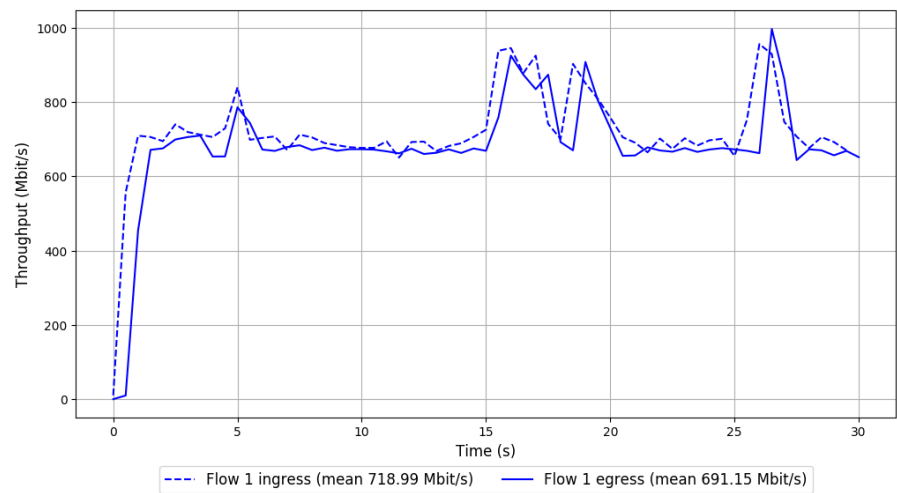
-- Flow 1:

Average throughput: 691.15 Mbit/s

95th percentile per-packet one-way delay: 105.036 ms

Loss rate: 3.87%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-07-09 23:13:15

End at: 2018-07-09 23:13:45

Local clock offset: 0.89 ms

Remote clock offset: 2.647 ms

Below is generated by plot.py at 2018-07-10 01:01:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 701.08 Mbit/s

95th percentile per-packet one-way delay: 104.845 ms

Loss rate: 4.38%

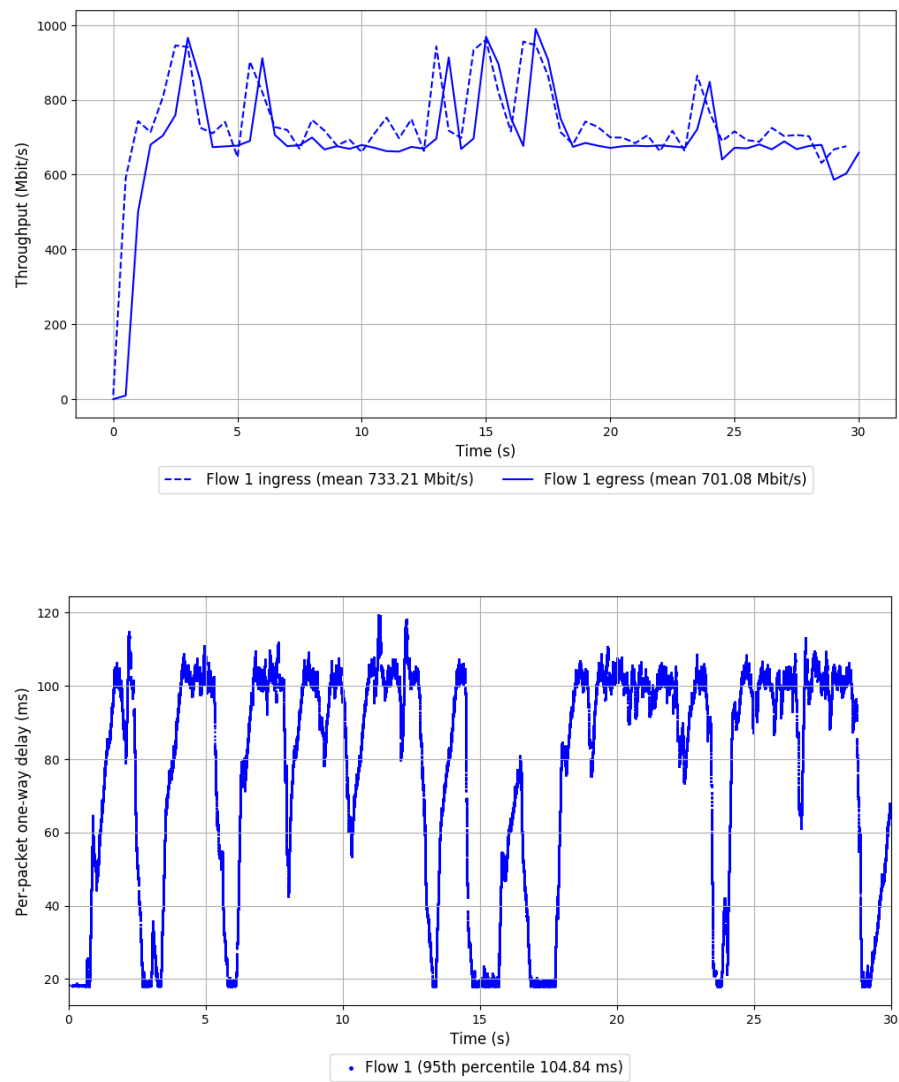
-- Flow 1:

Average throughput: 701.08 Mbit/s

95th percentile per-packet one-way delay: 104.845 ms

Loss rate: 4.38%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-07-09 23:38:43

End at: 2018-07-09 23:39:13

Local clock offset: 0.992 ms

Remote clock offset: 4.747 ms

Below is generated by plot.py at 2018-07-10 01:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 713.34 Mbit/s

95th percentile per-packet one-way delay: 106.561 ms

Loss rate: 3.72%

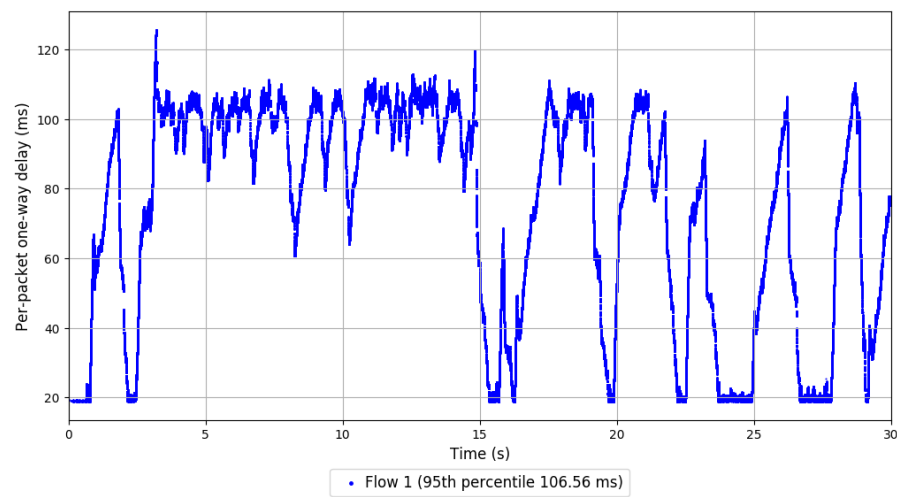
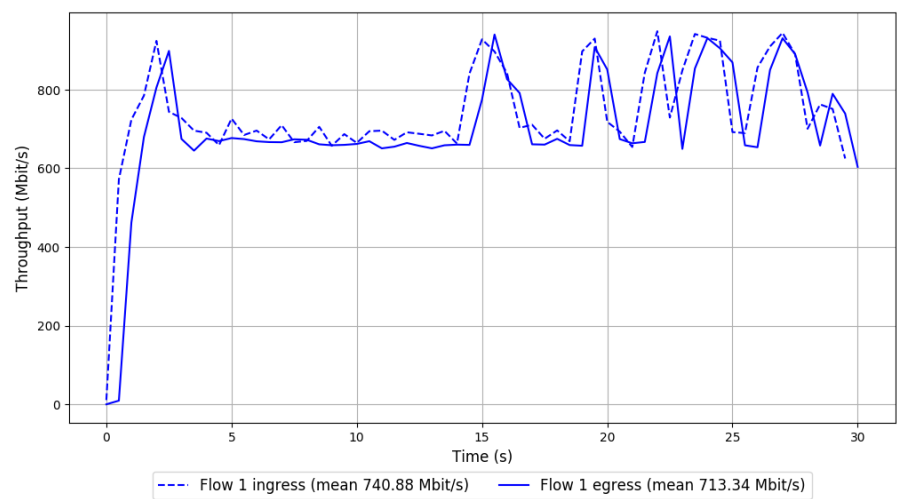
-- Flow 1:

Average throughput: 713.34 Mbit/s

95th percentile per-packet one-way delay: 106.561 ms

Loss rate: 3.72%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-07-10 00:04:05

End at: 2018-07-10 00:04:35

Local clock offset: 0.448 ms

Remote clock offset: 3.718 ms

Below is generated by plot.py at 2018-07-10 01:09:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 708.10 Mbit/s

95th percentile per-packet one-way delay: 107.403 ms

Loss rate: 4.27%

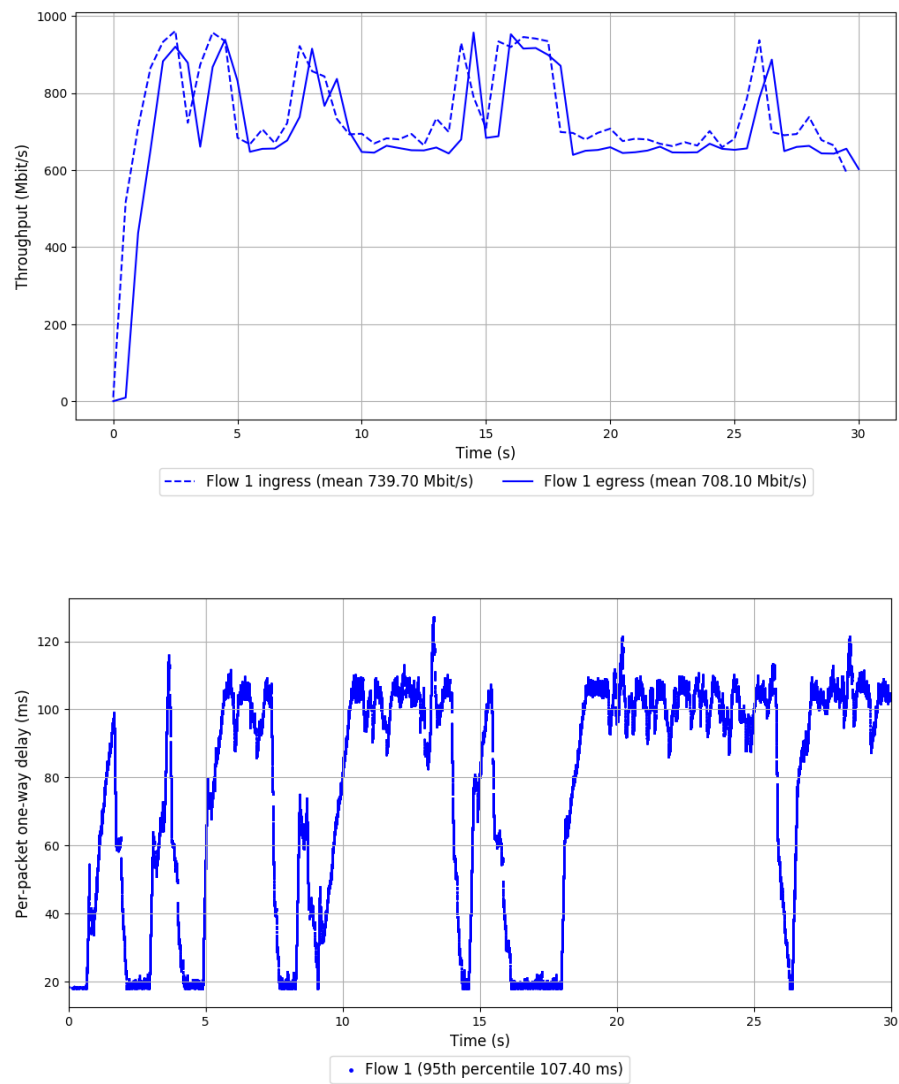
-- Flow 1:

Average throughput: 708.10 Mbit/s

95th percentile per-packet one-way delay: 107.403 ms

Loss rate: 4.27%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-07-09 20:05:47

End at: 2018-07-09 20:06:17

Local clock offset: 0.548 ms

Remote clock offset: 2.21 ms

Below is generated by plot.py at 2018-07-10 01:12:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 856.08 Mbit/s

95th percentile per-packet one-way delay: 76.306 ms

Loss rate: 13.18%

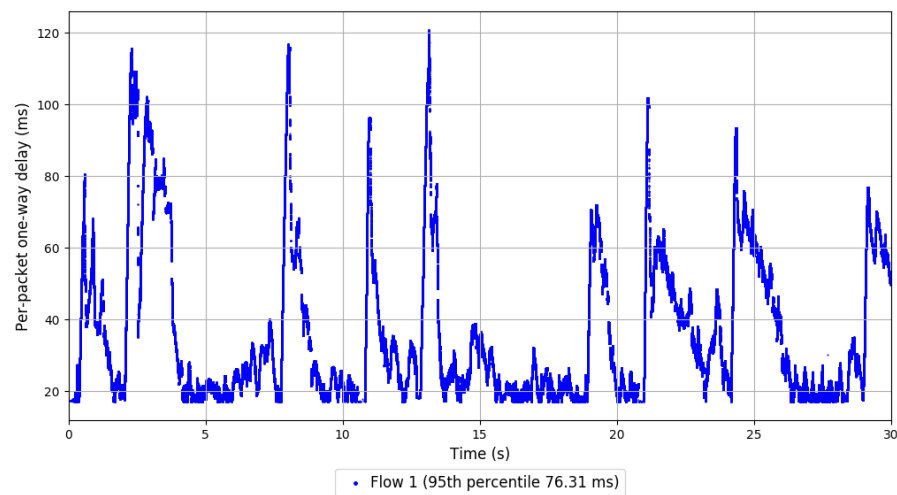
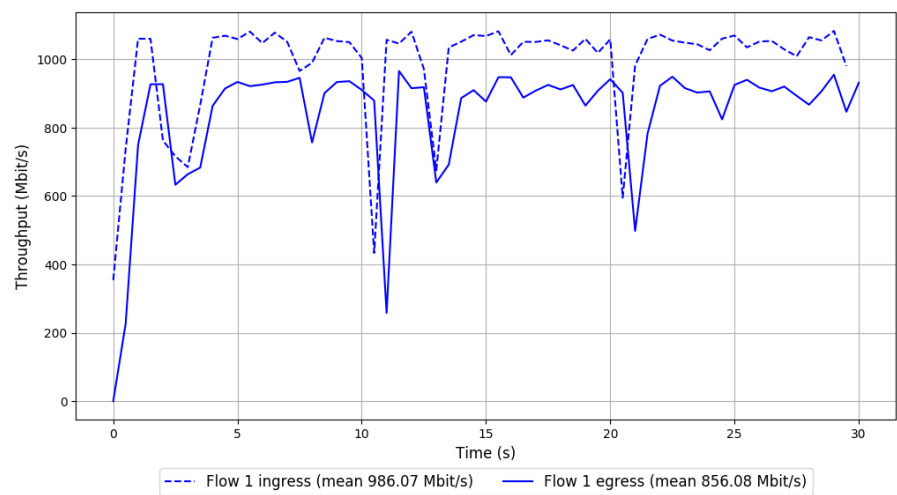
-- Flow 1:

Average throughput: 856.08 Mbit/s

95th percentile per-packet one-way delay: 76.306 ms

Loss rate: 13.18%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-07-09 20:31:28

End at: 2018-07-09 20:31:58

Local clock offset: 0.849 ms

Remote clock offset: 2.861 ms

Below is generated by plot.py at 2018-07-10 01:12:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 139.57 Mbit/s

95th percentile per-packet one-way delay: 94.295 ms

Loss rate: 13.16%

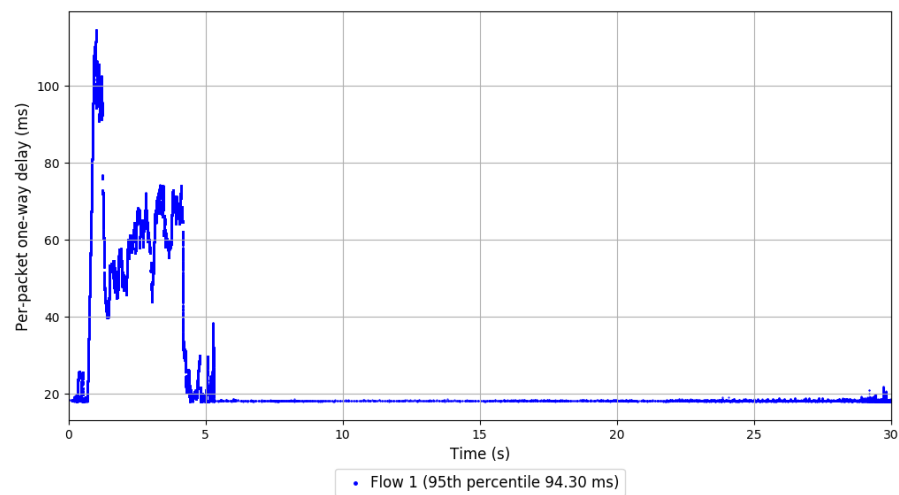
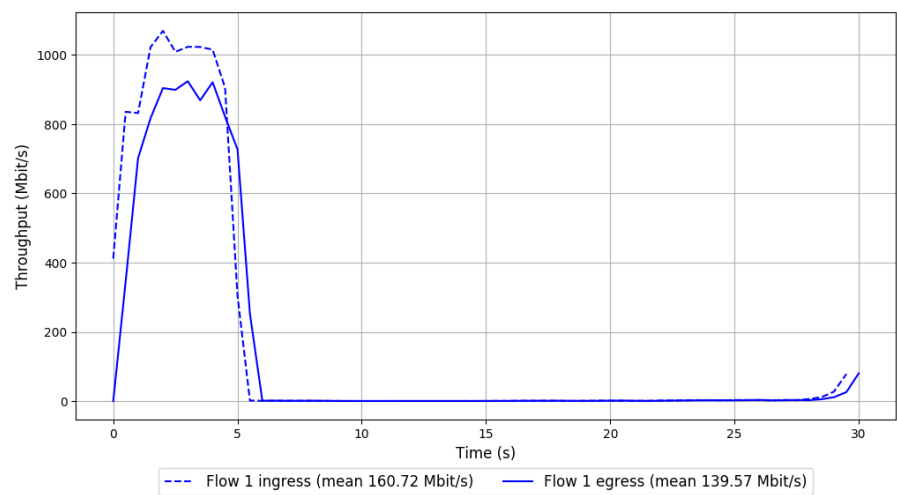
-- Flow 1:

Average throughput: 139.57 Mbit/s

95th percentile per-packet one-way delay: 94.295 ms

Loss rate: 13.16%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-07-09 20:56:48

End at: 2018-07-09 20:57:18

Local clock offset: 1.156 ms

Remote clock offset: 0.686 ms

Below is generated by plot.py at 2018-07-10 01:12:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.95 Mbit/s

95th percentile per-packet one-way delay: 88.015 ms

Loss rate: 12.88%

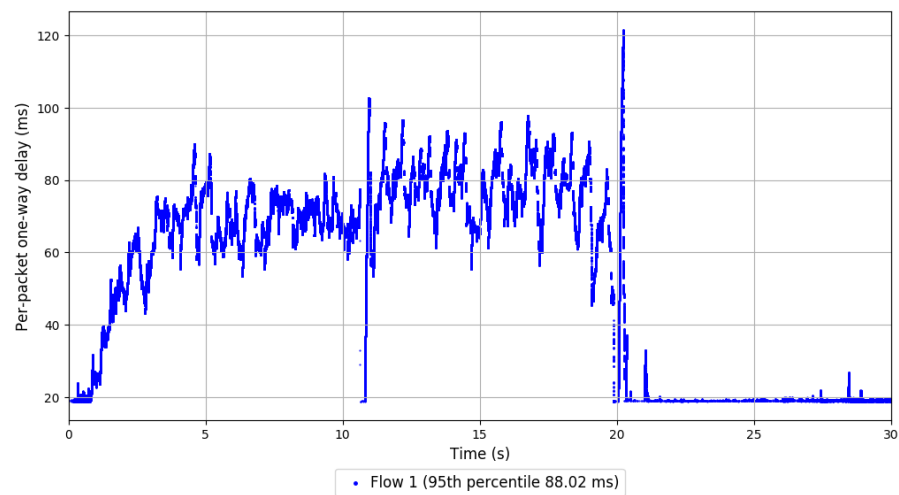
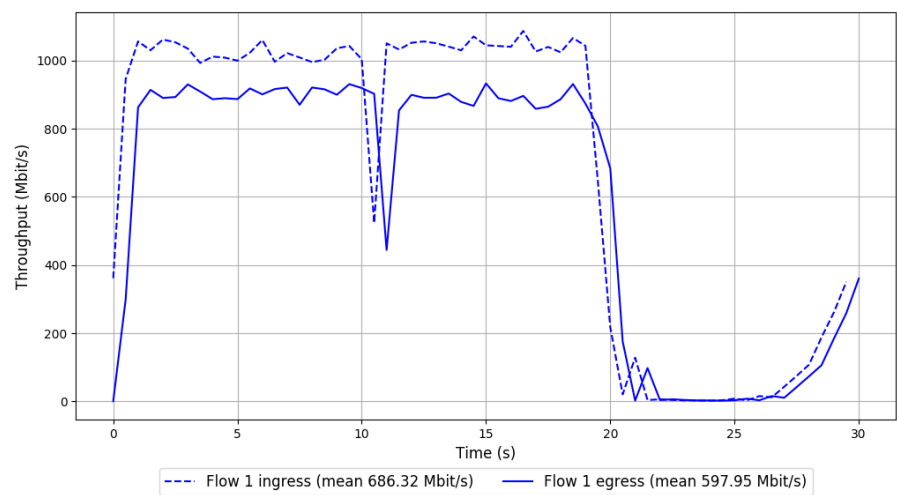
-- Flow 1:

Average throughput: 597.95 Mbit/s

95th percentile per-packet one-way delay: 88.015 ms

Loss rate: 12.88%

Run 3: Report of FillP-Sheep — Data Link

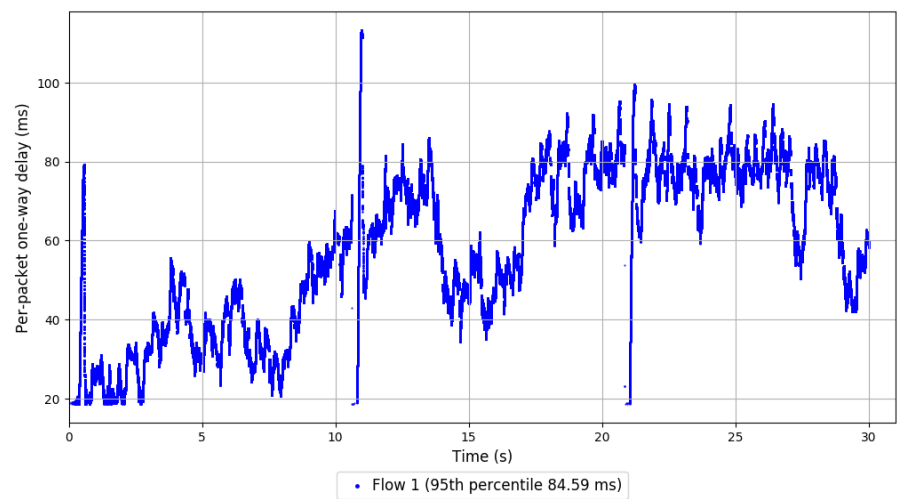
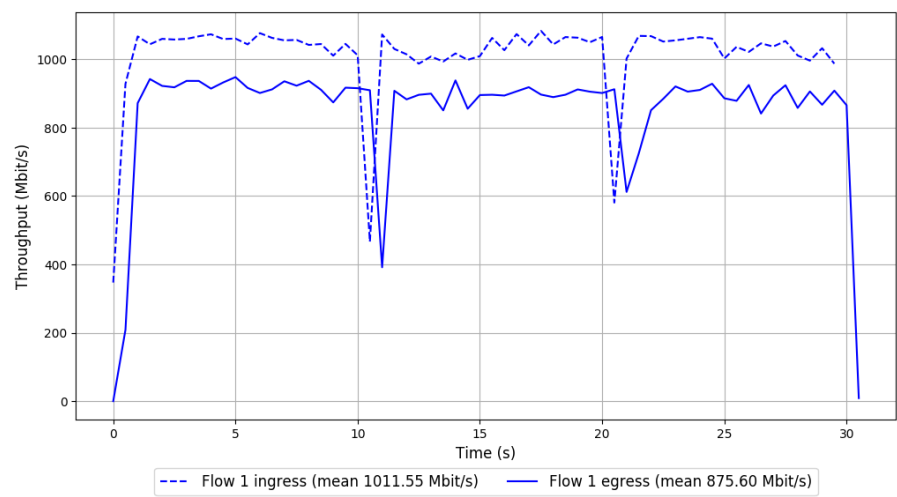


Run 4: Statistics of FillP-Sheep

Start at: 2018-07-09 21:22:07
End at: 2018-07-09 21:22:37
Local clock offset: 0.992 ms
Remote clock offset: -1.518 ms

Below is generated by plot.py at 2018-07-10 01:13:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 875.60 Mbit/s
95th percentile per-packet one-way delay: 84.591 ms
Loss rate: 13.44%
-- Flow 1:
Average throughput: 875.60 Mbit/s
95th percentile per-packet one-way delay: 84.591 ms
Loss rate: 13.44%

Run 4: Report of FillP-Sheep — Data Link

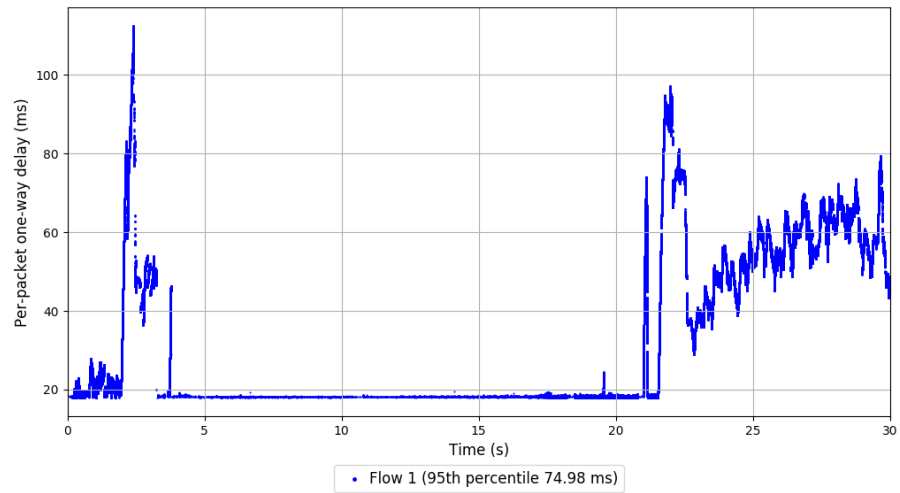
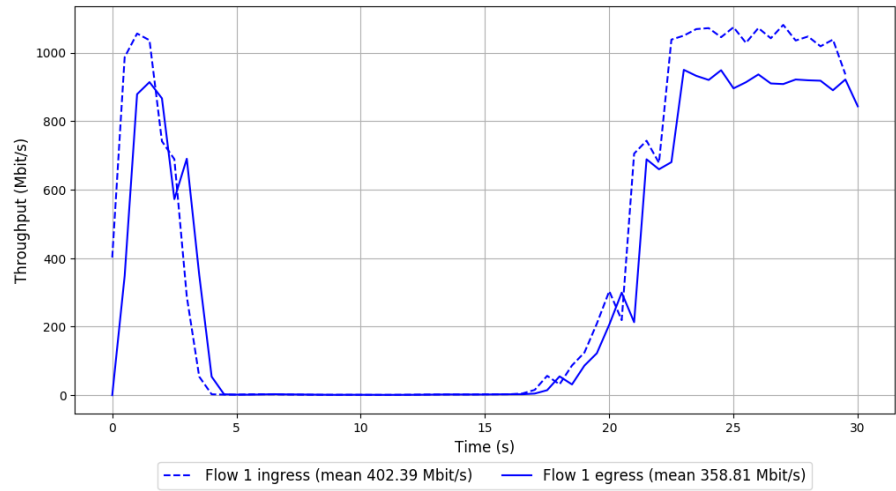


Run 5: Statistics of FillP-Sheep

Start at: 2018-07-09 21:47:50
End at: 2018-07-09 21:48:20
Local clock offset: 1.325 ms
Remote clock offset: -0.524 ms

Below is generated by plot.py at 2018-07-10 01:13:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 358.81 Mbit/s
95th percentile per-packet one-way delay: 74.976 ms
Loss rate: 10.83%
-- Flow 1:
Average throughput: 358.81 Mbit/s
95th percentile per-packet one-way delay: 74.976 ms
Loss rate: 10.83%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-07-09 22:13:16

End at: 2018-07-09 22:13:46

Local clock offset: 1.22 ms

Remote clock offset: -2.473 ms

Below is generated by plot.py at 2018-07-10 01:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.50 Mbit/s

95th percentile per-packet one-way delay: 95.300 ms

Loss rate: 9.78%

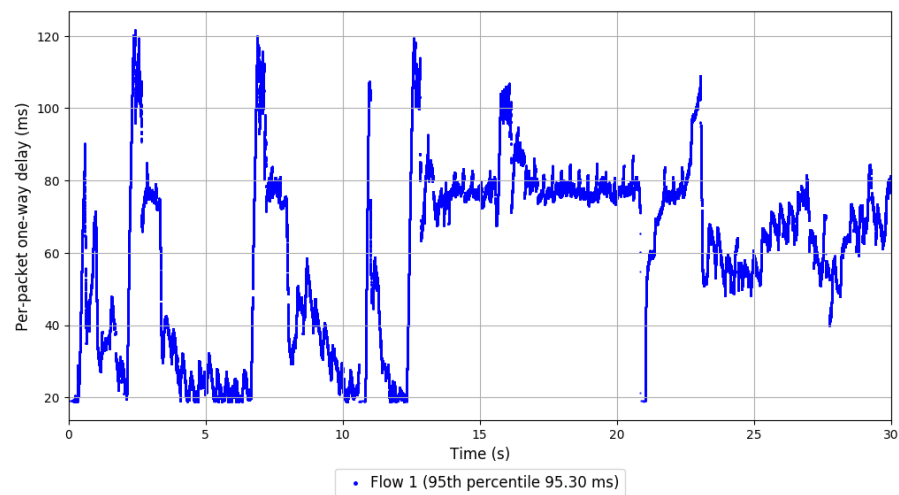
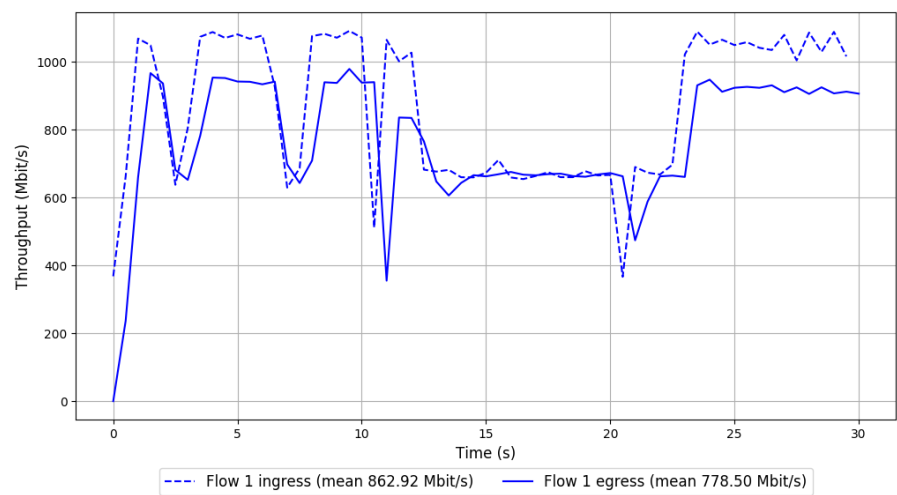
-- Flow 1:

Average throughput: 778.50 Mbit/s

95th percentile per-packet one-way delay: 95.300 ms

Loss rate: 9.78%

Run 6: Report of FillP-Sheep — Data Link

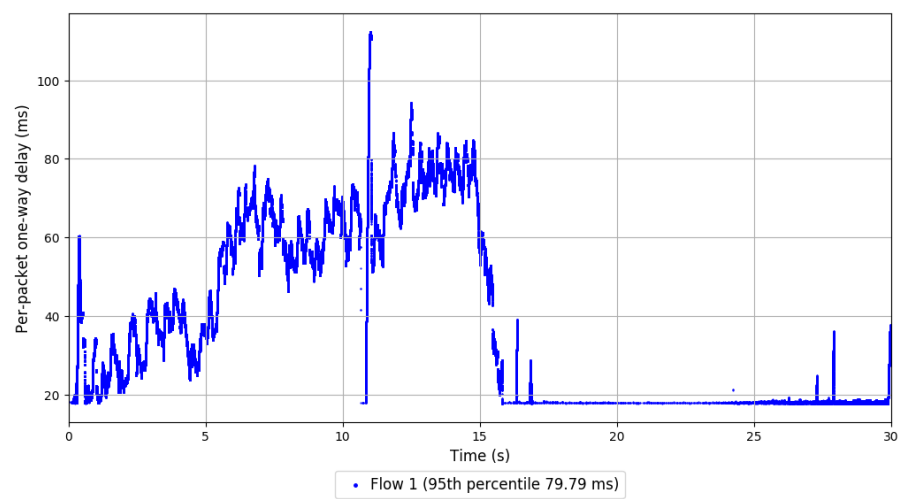
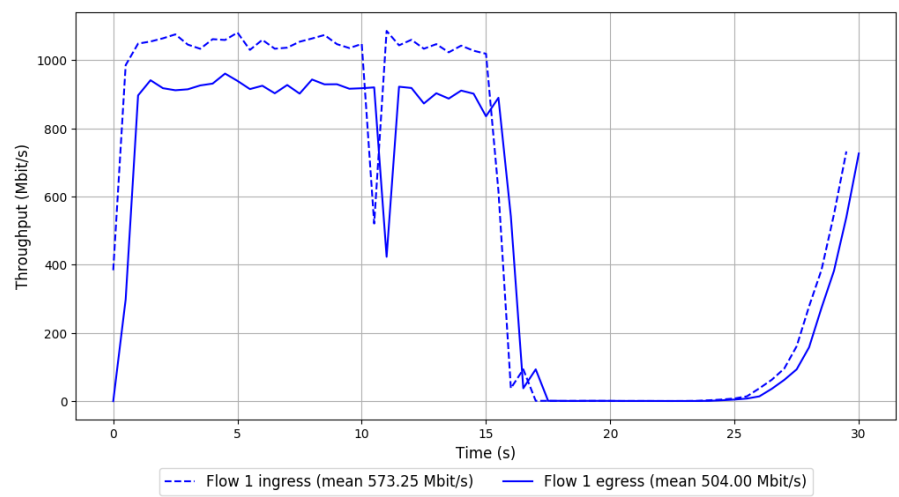


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-09 22:38:46
End at: 2018-07-09 22:39:16
Local clock offset: 0.772 ms
Remote clock offset: -1.085 ms

Below is generated by plot.py at 2018-07-10 01:13:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 504.00 Mbit/s
95th percentile per-packet one-way delay: 79.790 ms
Loss rate: 12.08%
-- Flow 1:
Average throughput: 504.00 Mbit/s
95th percentile per-packet one-way delay: 79.790 ms
Loss rate: 12.08%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-07-09 23:04:23

End at: 2018-07-09 23:04:53

Local clock offset: 0.791 ms

Remote clock offset: 1.125 ms

Below is generated by plot.py at 2018-07-10 01:13:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.40 Mbit/s

95th percentile per-packet one-way delay: 84.723 ms

Loss rate: 4.55%

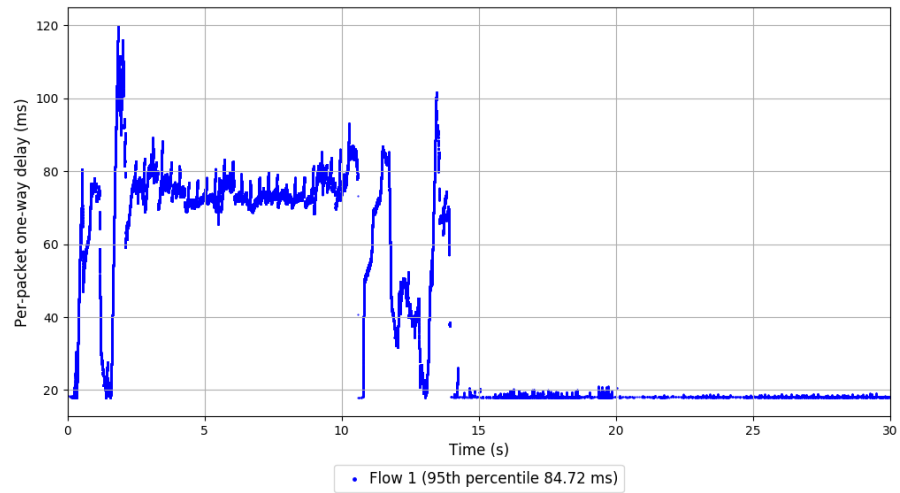
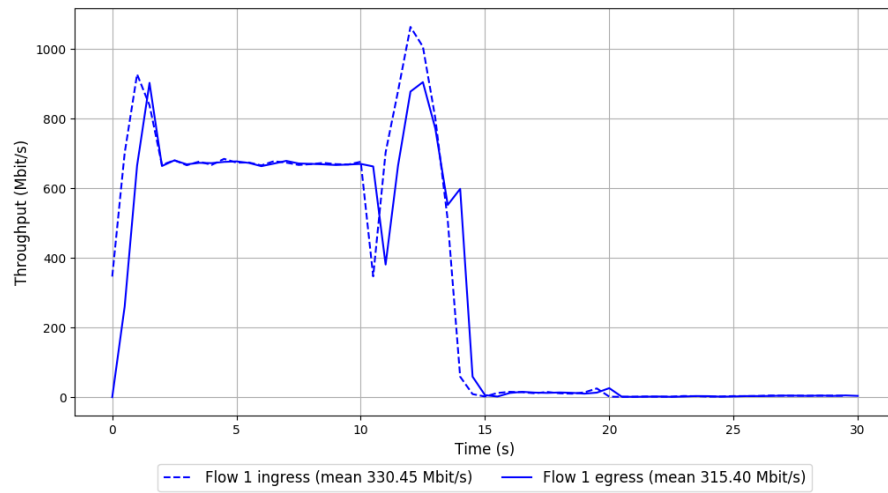
-- Flow 1:

Average throughput: 315.40 Mbit/s

95th percentile per-packet one-way delay: 84.723 ms

Loss rate: 4.55%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-07-09 23:29:28

End at: 2018-07-09 23:29:58

Local clock offset: 0.968 ms

Remote clock offset: 4.084 ms

Below is generated by plot.py at 2018-07-10 01:21:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.66 Mbit/s

95th percentile per-packet one-way delay: 105.238 ms

Loss rate: 10.90%

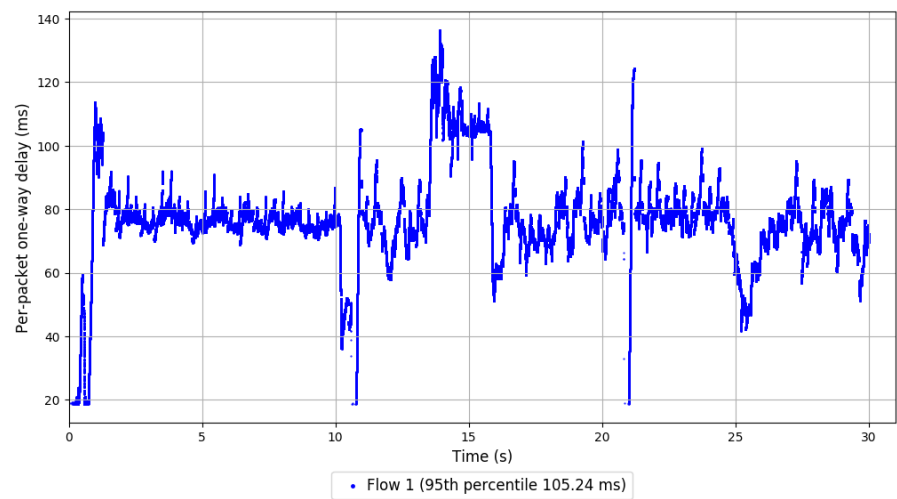
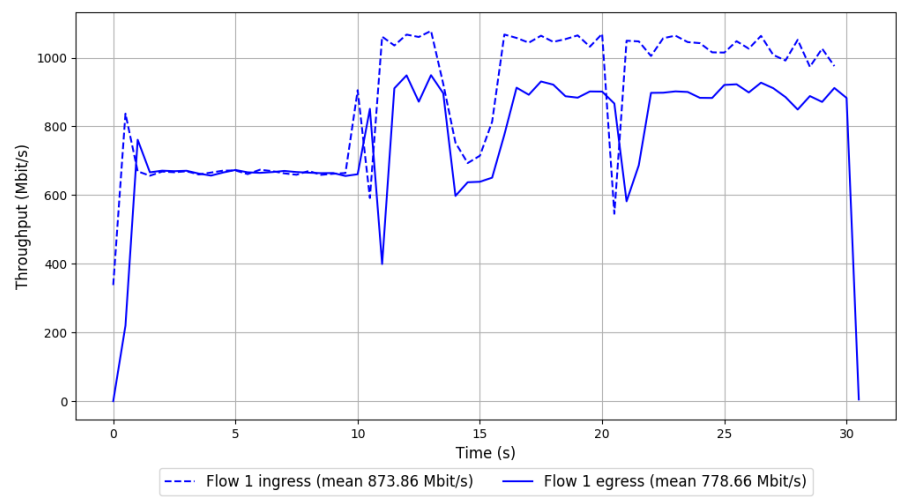
-- Flow 1:

Average throughput: 778.66 Mbit/s

95th percentile per-packet one-way delay: 105.238 ms

Loss rate: 10.90%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-07-09 23:54:52

End at: 2018-07-09 23:55:22

Local clock offset: 0.545 ms

Remote clock offset: 3.601 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 797.29 Mbit/s

95th percentile per-packet one-way delay: 99.564 ms

Loss rate: 10.34%

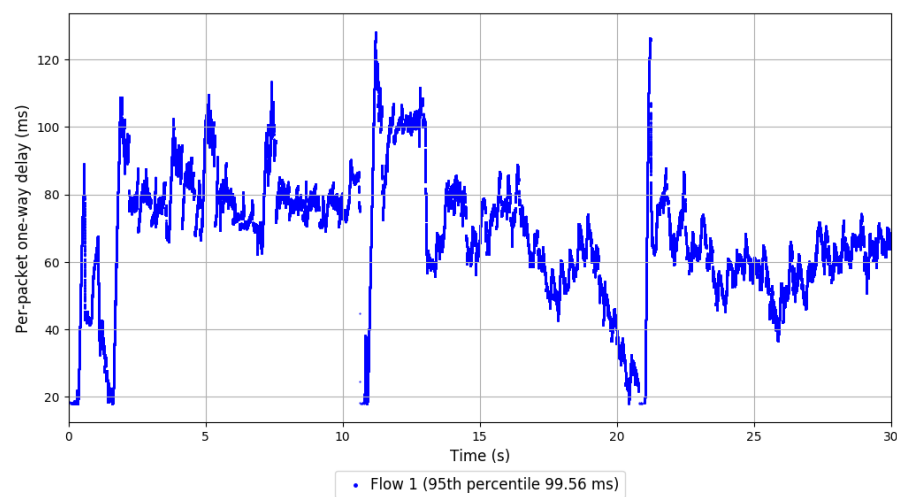
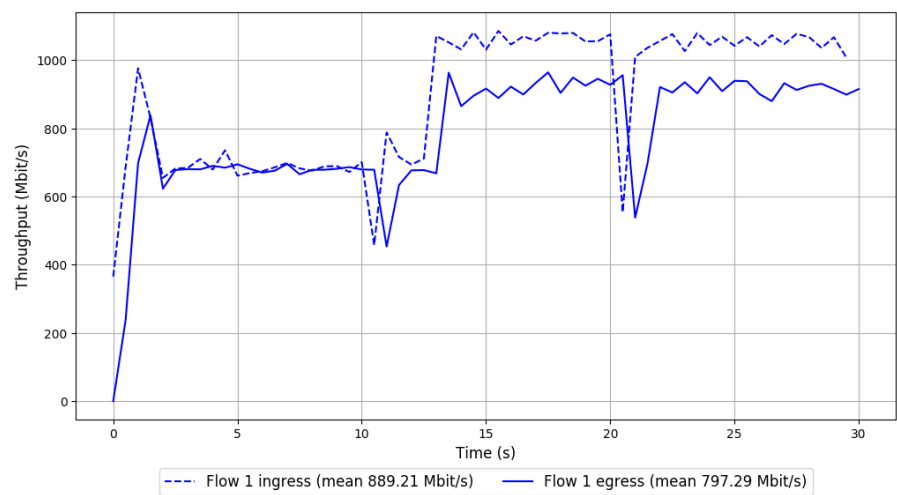
-- Flow 1:

Average throughput: 797.29 Mbit/s

95th percentile per-packet one-way delay: 99.564 ms

Loss rate: 10.34%

Run 10: Report of FillP-Sheep — Data Link

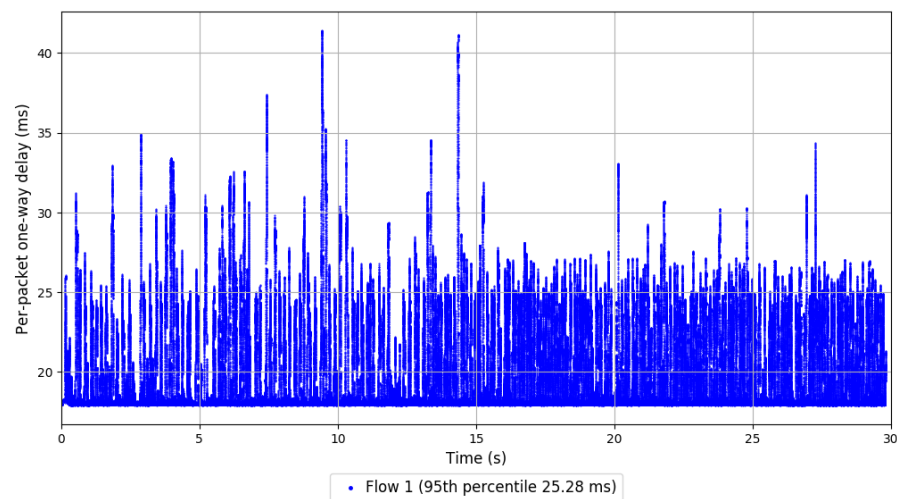
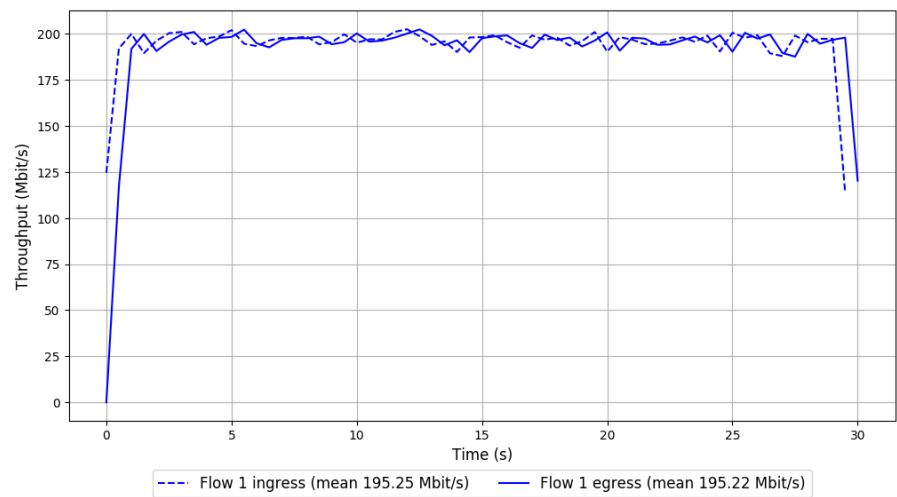


```
Run 1: Statistics of Indigo

Start at: 2018-07-09 19:58:47
End at: 2018-07-09 19:59:17
Local clock offset: 0.64 ms
Remote clock offset: 2.271 ms

# Below is generated by plot.py at 2018-07-10 01:22:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 195.22 Mbit/s
95th percentile per-packet one-way delay: 25.284 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 195.22 Mbit/s
95th percentile per-packet one-way delay: 25.284 ms
Loss rate: 0.01%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-07-09 20:24:29

End at: 2018-07-09 20:24:59

Local clock offset: 0.804 ms

Remote clock offset: 2.658 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.10 Mbit/s

95th percentile per-packet one-way delay: 25.653 ms

Loss rate: 0.00%

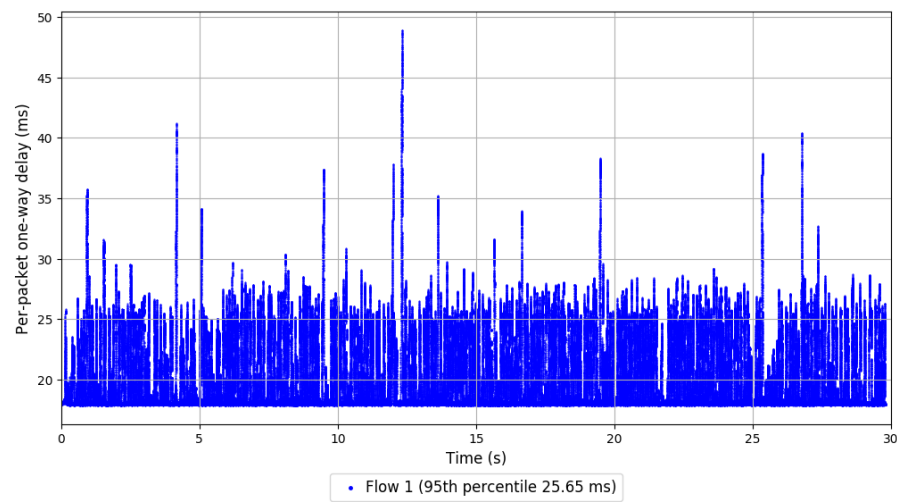
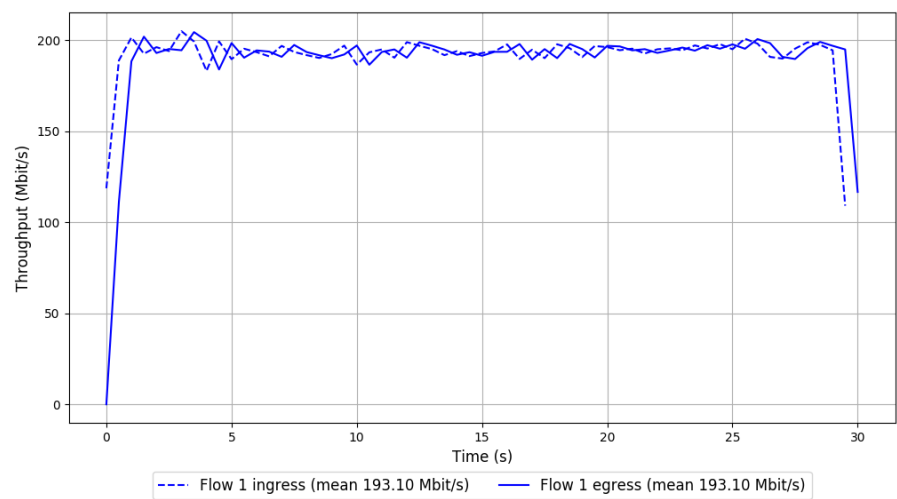
-- Flow 1:

Average throughput: 193.10 Mbit/s

95th percentile per-packet one-way delay: 25.653 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-07-09 20:49:49

End at: 2018-07-09 20:50:19

Local clock offset: 1.051 ms

Remote clock offset: 2.711 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.37 Mbit/s

95th percentile per-packet one-way delay: 28.114 ms

Loss rate: 0.00%

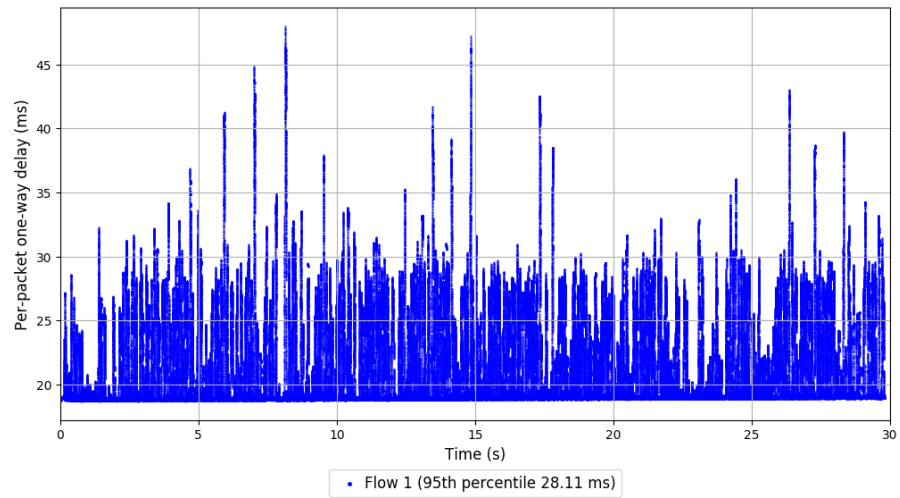
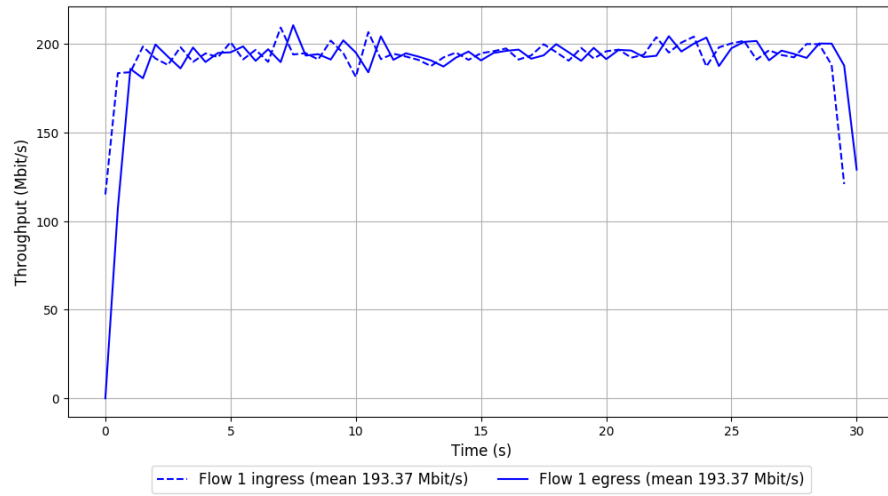
-- Flow 1:

Average throughput: 193.37 Mbit/s

95th percentile per-packet one-way delay: 28.114 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

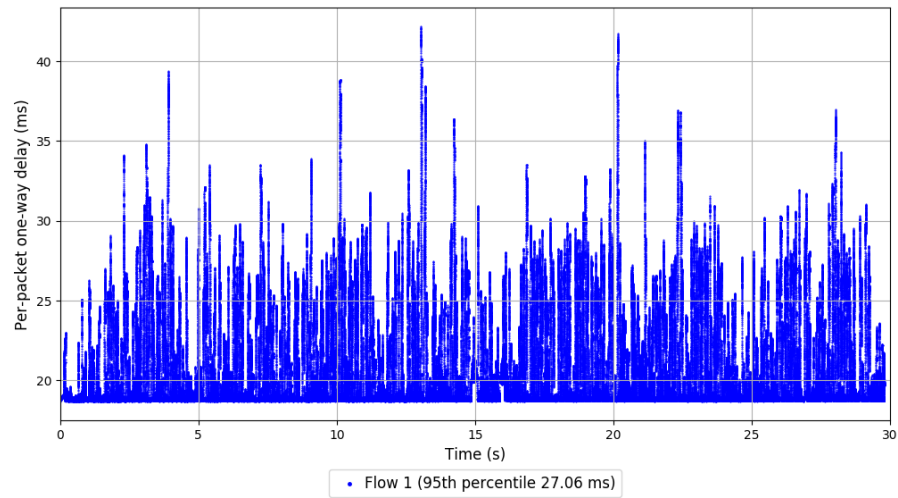
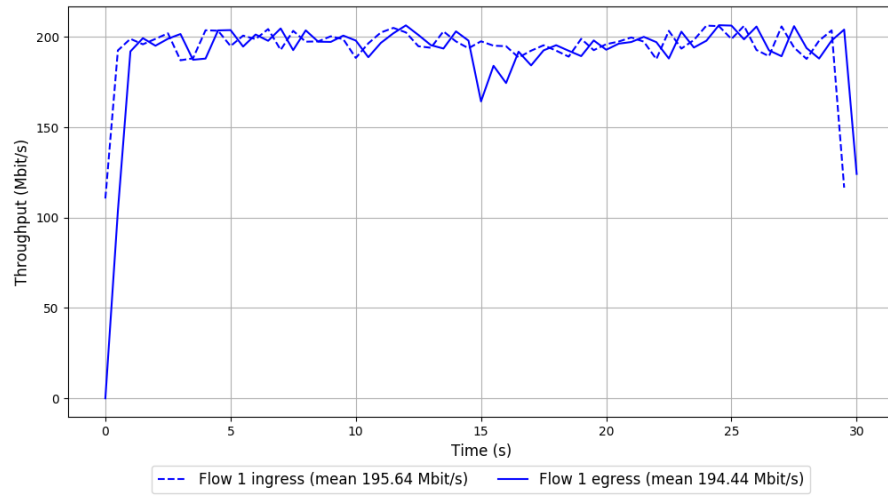


Run 4: Statistics of Indigo

Start at: 2018-07-09 21:15:08
End at: 2018-07-09 21:15:38
Local clock offset: 0.984 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-07-10 01:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.44 Mbit/s
95th percentile per-packet one-way delay: 27.061 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 194.44 Mbit/s
95th percentile per-packet one-way delay: 27.061 ms
Loss rate: 0.61%

Run 4: Report of Indigo — Data Link

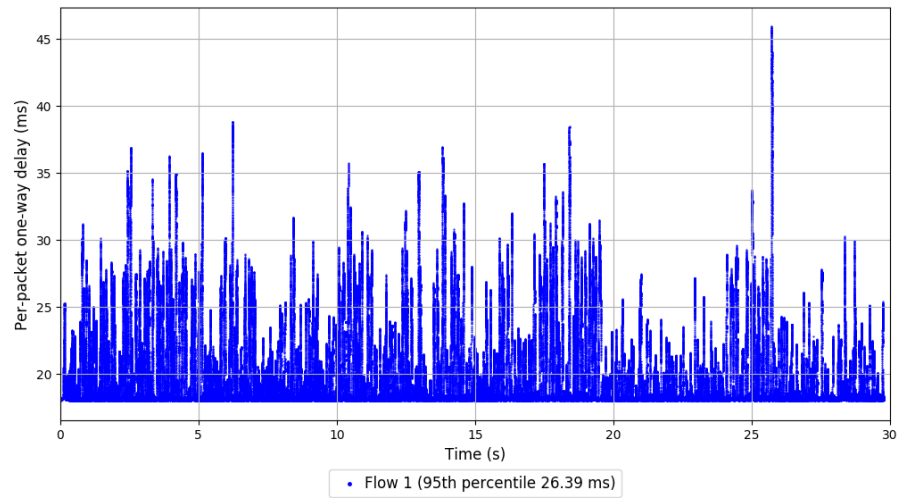
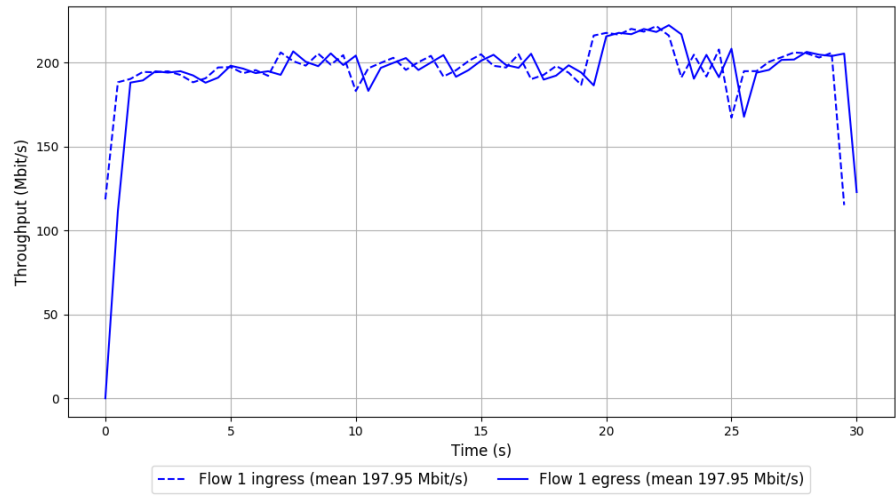


Run 5: Statistics of Indigo

Start at: 2018-07-09 21:40:48
End at: 2018-07-09 21:41:18
Local clock offset: 1.244 ms
Remote clock offset: -0.452 ms

Below is generated by plot.py at 2018-07-10 01:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.95 Mbit/s
95th percentile per-packet one-way delay: 26.388 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 197.95 Mbit/s
95th percentile per-packet one-way delay: 26.388 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-07-09 22:06:16

End at: 2018-07-09 22:06:46

Local clock offset: 1.365 ms

Remote clock offset: -1.912 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.02 Mbit/s

95th percentile per-packet one-way delay: 25.654 ms

Loss rate: 0.00%

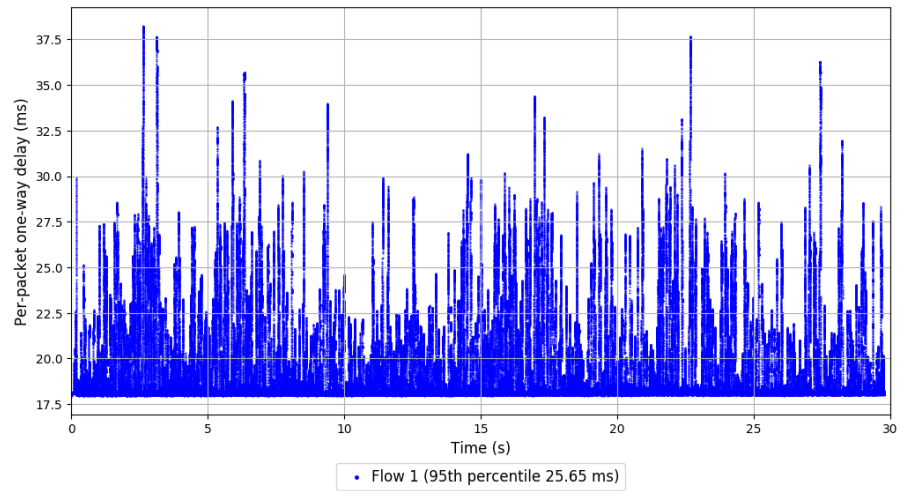
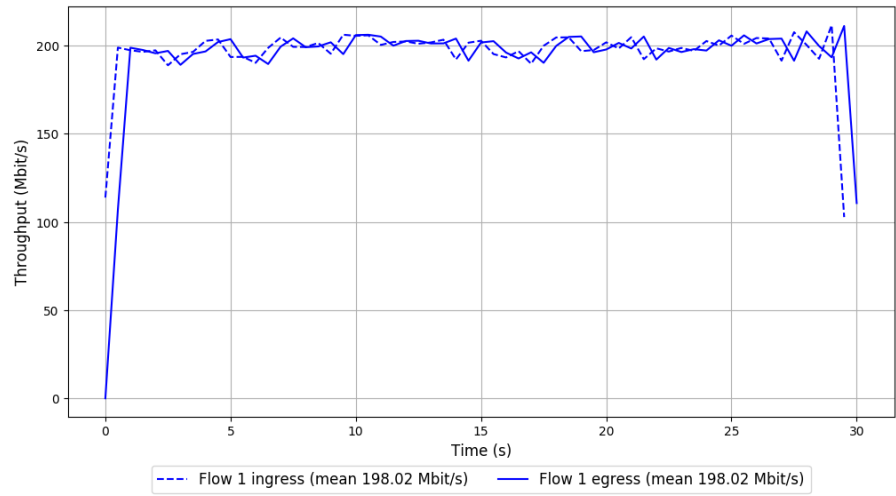
-- Flow 1:

Average throughput: 198.02 Mbit/s

95th percentile per-packet one-way delay: 25.654 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link

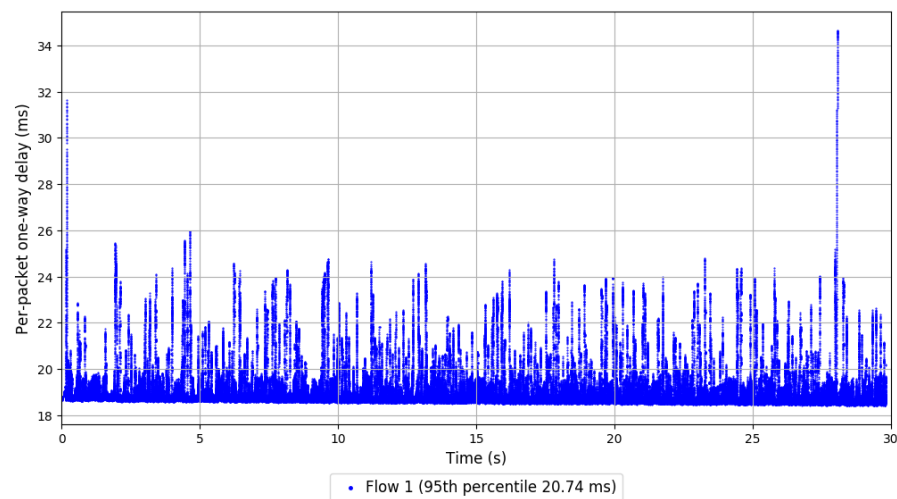
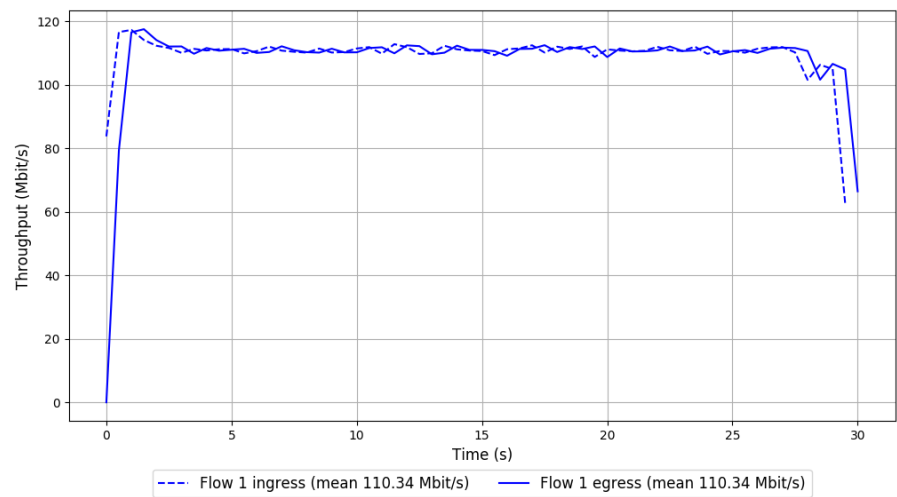


Run 7: Statistics of Indigo

Start at: 2018-07-09 22:31:50
End at: 2018-07-09 22:32:20
Local clock offset: 0.862 ms
Remote clock offset: -3.145 ms

Below is generated by plot.py at 2018-07-10 01:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 110.34 Mbit/s
95th percentile per-packet one-way delay: 20.737 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 110.34 Mbit/s
95th percentile per-packet one-way delay: 20.737 ms
Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-07-09 22:57:23

End at: 2018-07-09 22:57:53

Local clock offset: 0.66 ms

Remote clock offset: 0.77 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.96 Mbit/s

95th percentile per-packet one-way delay: 26.466 ms

Loss rate: 0.00%

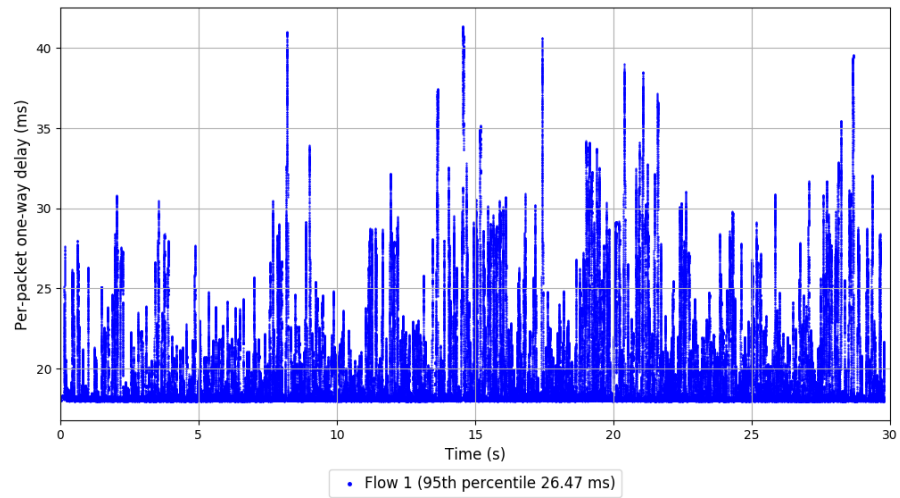
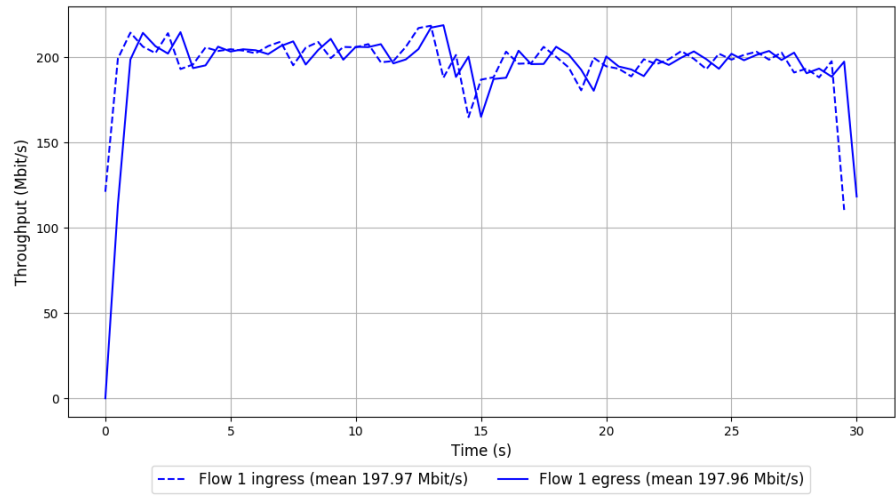
-- Flow 1:

Average throughput: 197.96 Mbit/s

95th percentile per-packet one-way delay: 26.466 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-07-09 23:22:25

End at: 2018-07-09 23:22:55

Local clock offset: 1.036 ms

Remote clock offset: 3.616 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 203.15 Mbit/s

95th percentile per-packet one-way delay: 23.835 ms

Loss rate: 0.26%

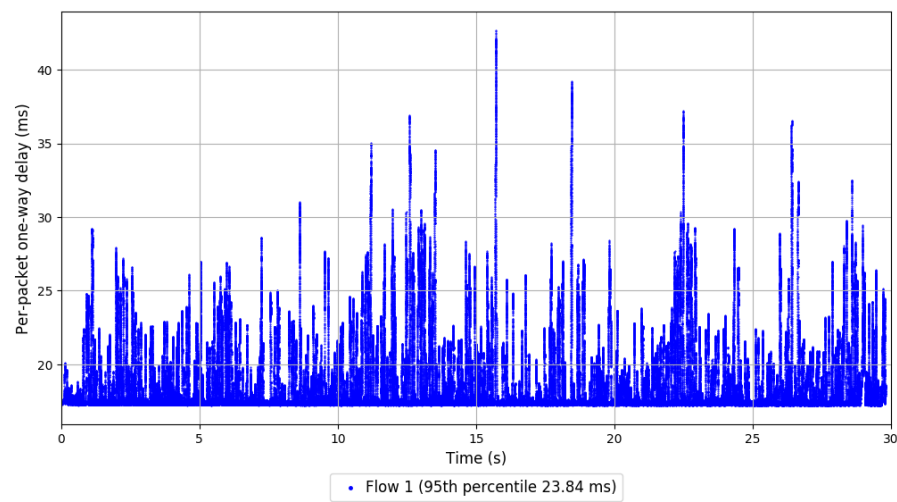
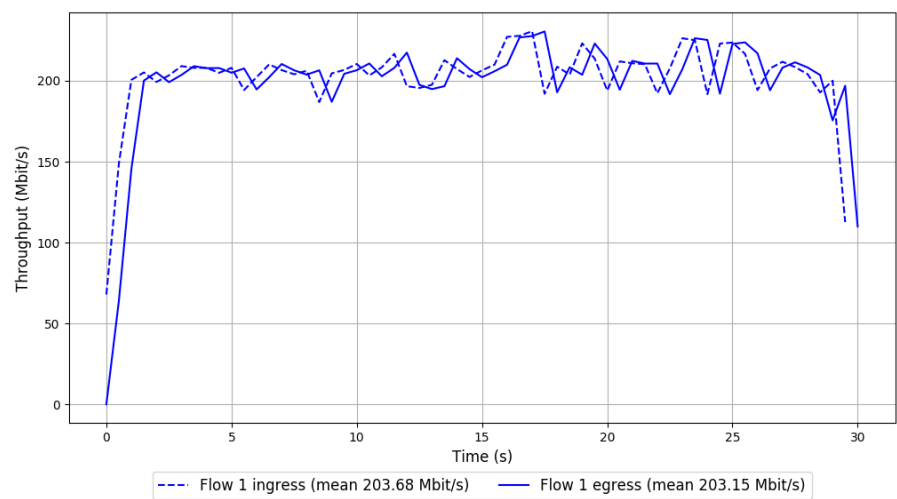
-- Flow 1:

Average throughput: 203.15 Mbit/s

95th percentile per-packet one-way delay: 23.835 ms

Loss rate: 0.26%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-09 23:47:52

End at: 2018-07-09 23:48:22

Local clock offset: 0.688 ms

Remote clock offset: 3.803 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.75 Mbit/s

95th percentile per-packet one-way delay: 24.436 ms

Loss rate: 0.01%

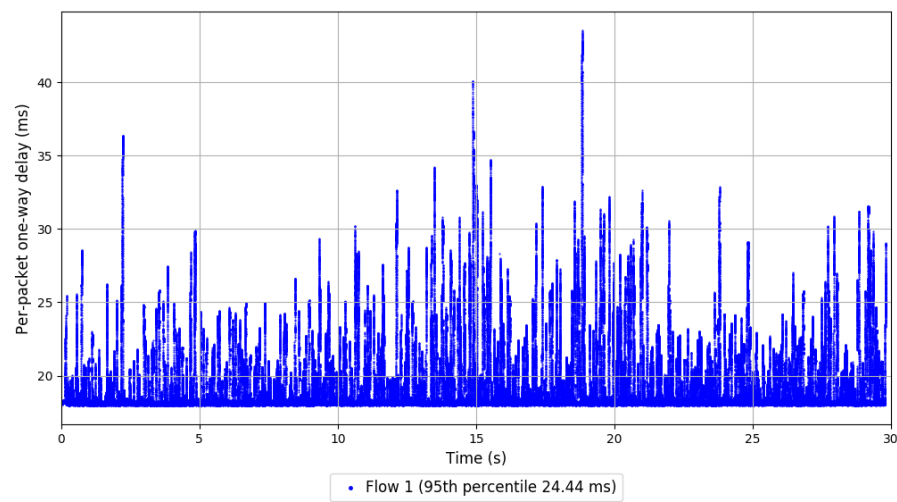
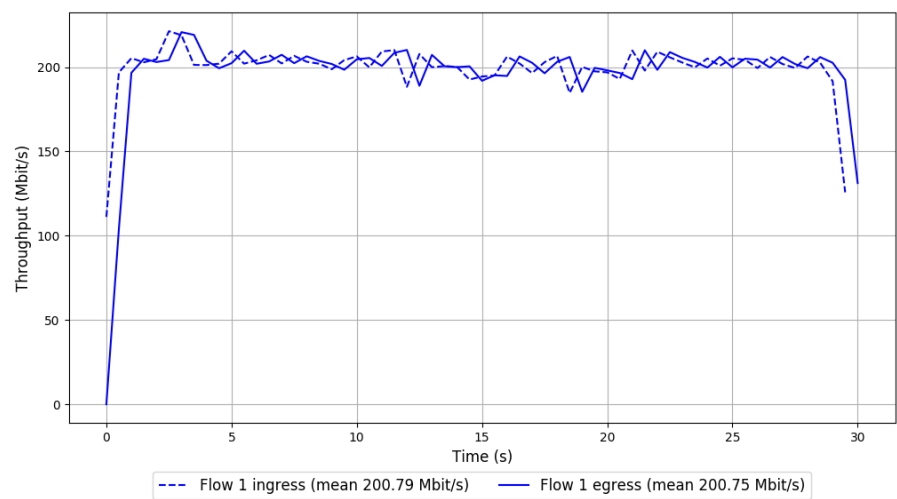
-- Flow 1:

Average throughput: 200.75 Mbit/s

95th percentile per-packet one-way delay: 24.436 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

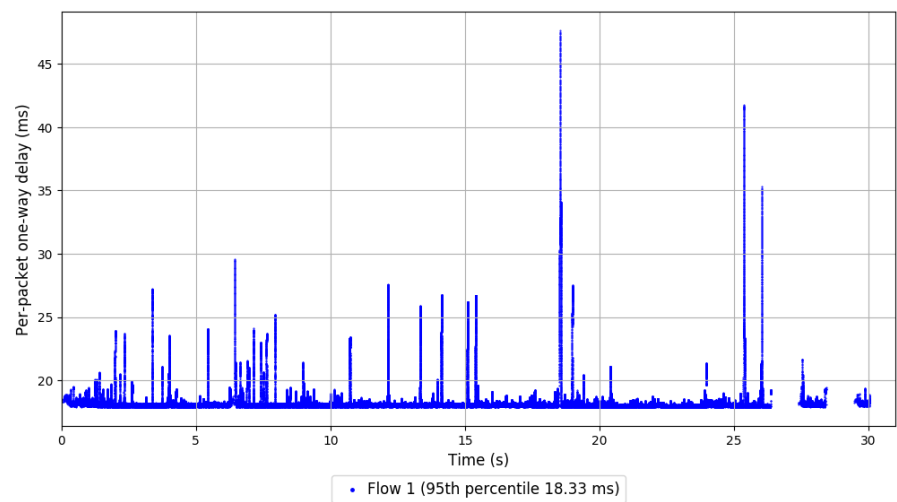
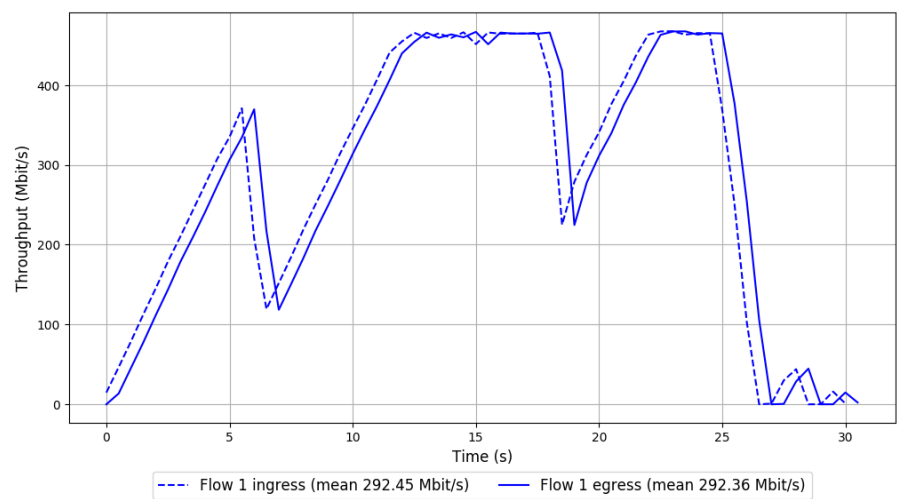


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-09 19:57:18
End at: 2018-07-09 19:57:48
Local clock offset: 0.689 ms
Remote clock offset: 2.293 ms

# Below is generated by plot.py at 2018-07-10 01:22:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 292.36 Mbit/s
95th percentile per-packet one-way delay: 18.326 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 292.36 Mbit/s
95th percentile per-packet one-way delay: 18.326 ms
Loss rate: 0.03%
```

Run 1: Report of LEDBAT — Data Link

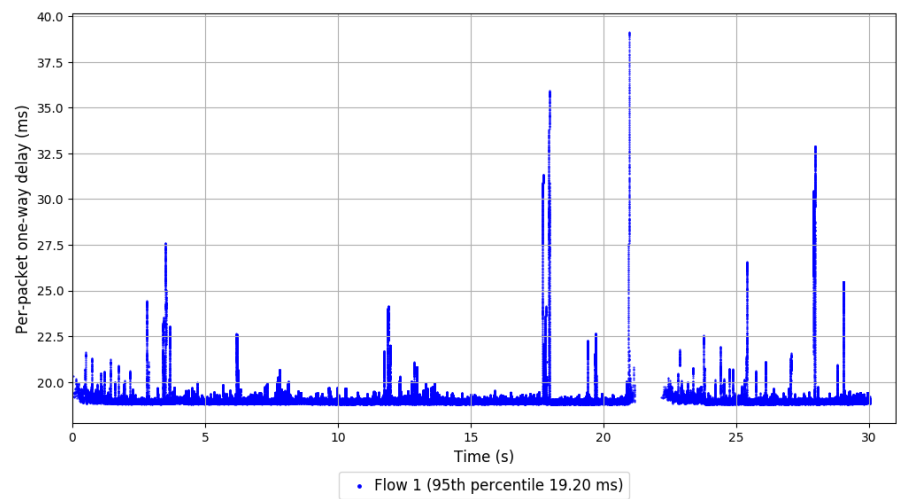
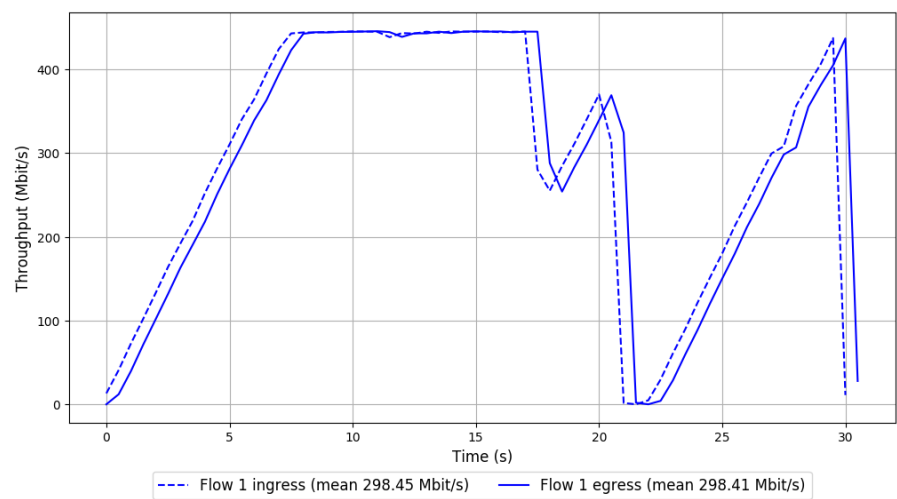


```
Run 2: Statistics of LEDBAT

Start at: 2018-07-09 20:22:59
End at: 2018-07-09 20:23:29
Local clock offset: 0.755 ms
Remote clock offset: 2.623 ms

# Below is generated by plot.py at 2018-07-10 01:22:05
# Datalink statistics
-- Total of 1 flow:
Average throughput: 298.41 Mbit/s
95th percentile per-packet one-way delay: 19.200 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 298.41 Mbit/s
95th percentile per-packet one-way delay: 19.200 ms
Loss rate: 0.02%
```

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-07-09 20:48:16

End at: 2018-07-09 20:48:46

Local clock offset: 1.043 ms

Remote clock offset: 3.18 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 375.89 Mbit/s

95th percentile per-packet one-way delay: 19.067 ms

Loss rate: 0.00%

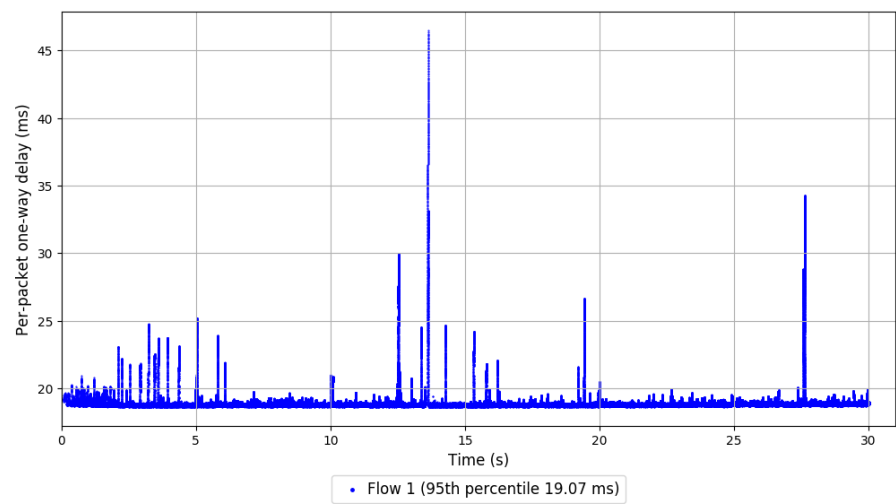
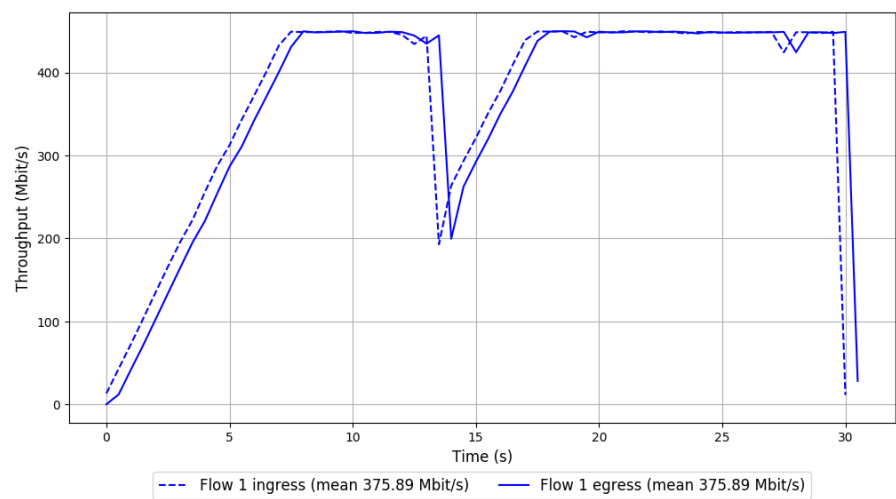
-- Flow 1:

Average throughput: 375.89 Mbit/s

95th percentile per-packet one-way delay: 19.067 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

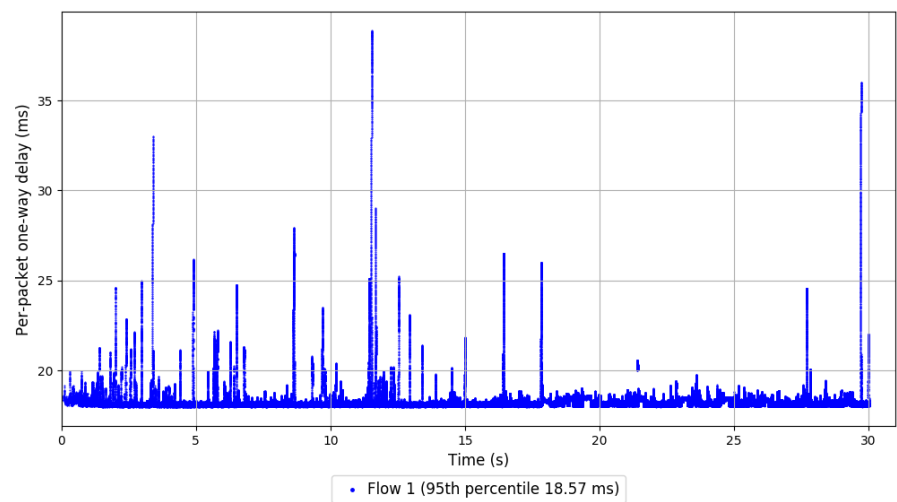
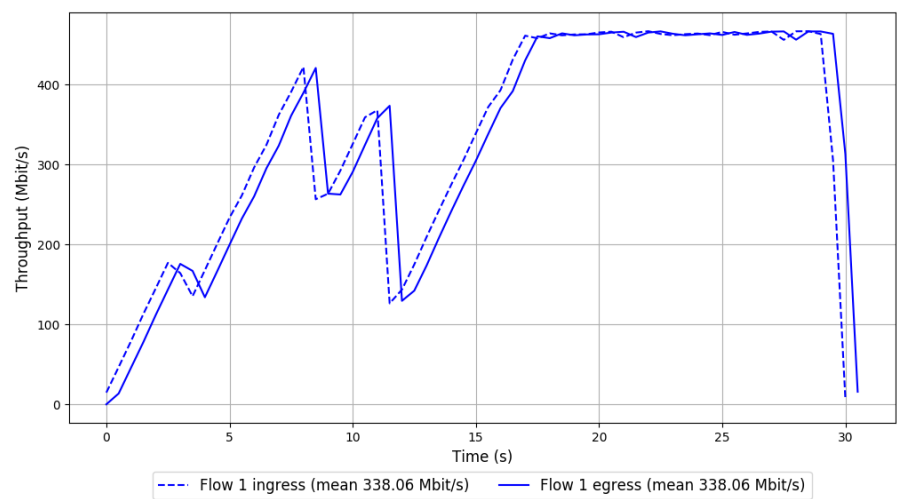


Run 4: Statistics of LEDBAT

Start at: 2018-07-09 21:13:36
End at: 2018-07-09 21:14:06
Local clock offset: 0.997 ms
Remote clock offset: -1.077 ms

Below is generated by plot.py at 2018-07-10 01:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 338.06 Mbit/s
95th percentile per-packet one-way delay: 18.567 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 338.06 Mbit/s
95th percentile per-packet one-way delay: 18.567 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

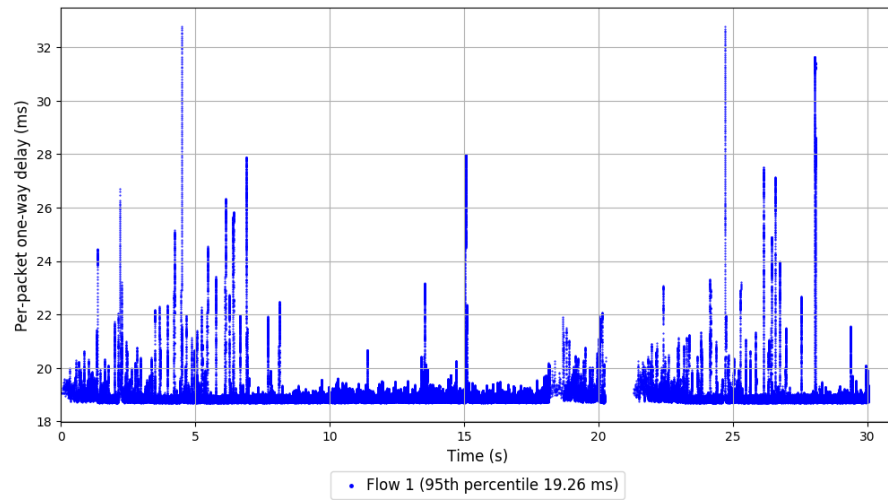
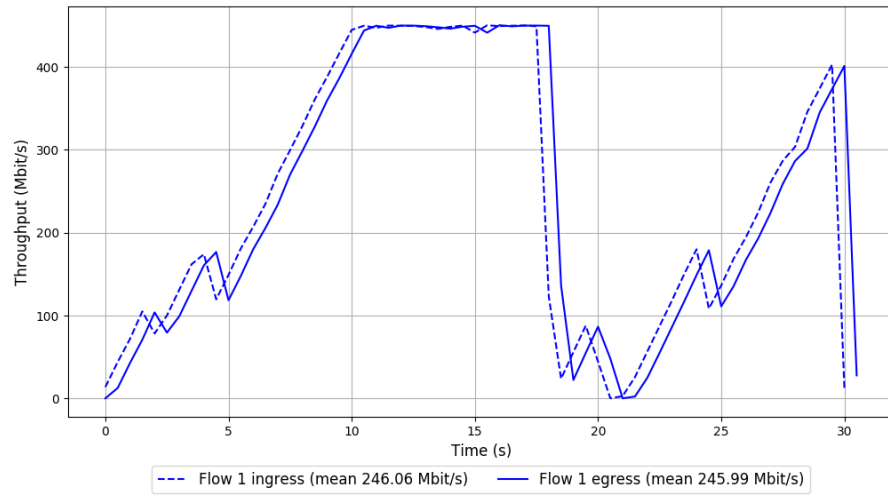


Run 5: Statistics of LEDBAT

Start at: 2018-07-09 21:39:20
End at: 2018-07-09 21:39:50
Local clock offset: 1.1 ms
Remote clock offset: -0.542 ms

Below is generated by plot.py at 2018-07-10 01:22:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 19.257 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 245.99 Mbit/s
95th percentile per-packet one-way delay: 19.257 ms
Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-07-09 22:04:47

End at: 2018-07-09 22:05:17

Local clock offset: 1.396 ms

Remote clock offset: -1.8 ms

Below is generated by plot.py at 2018-07-10 01:22:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.55 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.03%

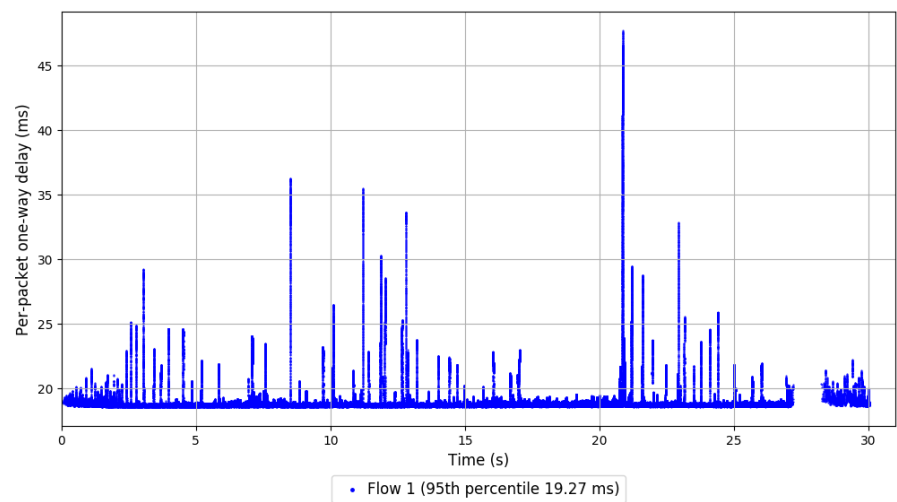
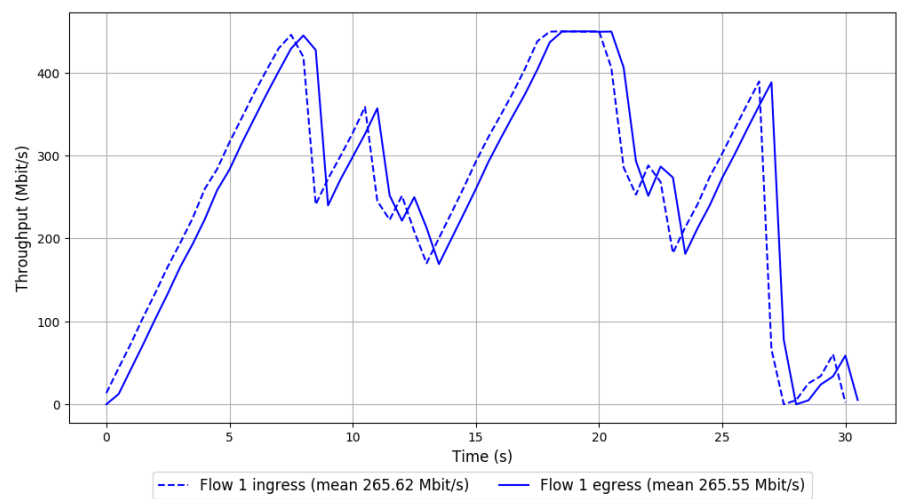
-- Flow 1:

Average throughput: 265.55 Mbit/s

95th percentile per-packet one-way delay: 19.273 ms

Loss rate: 0.03%

Run 6: Report of LEDBAT — Data Link

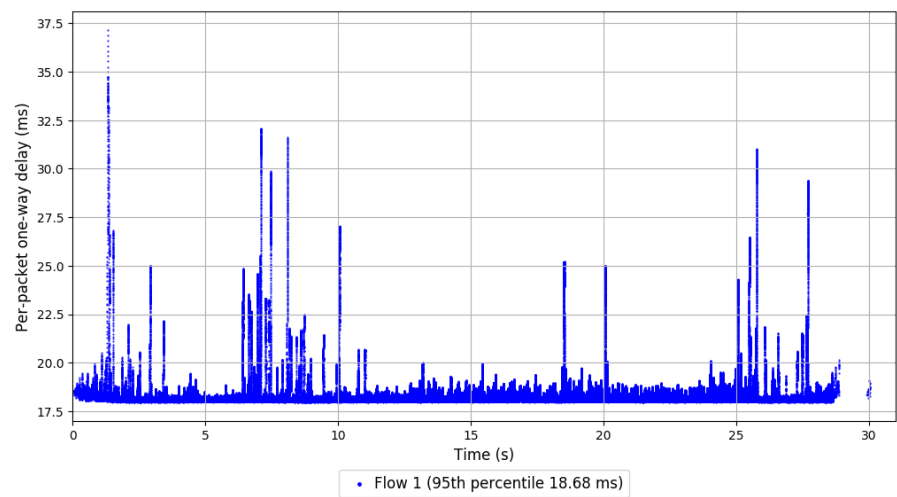
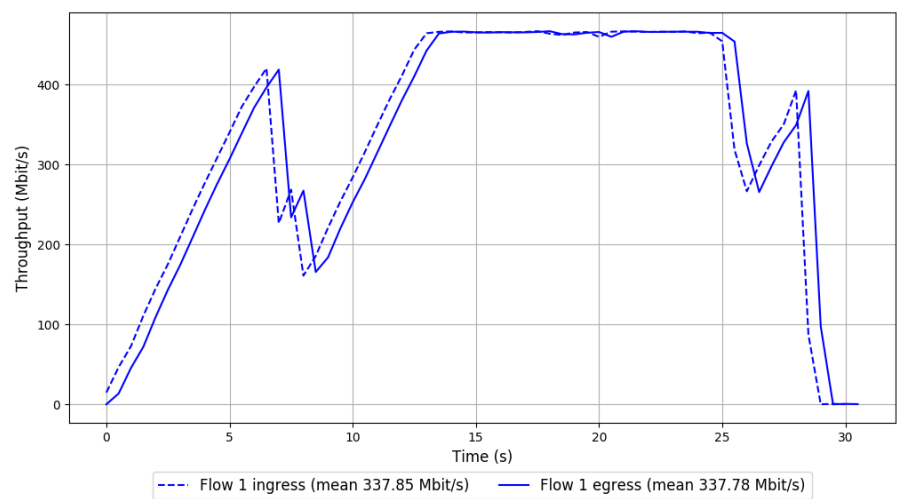


Run 7: Statistics of LEDBAT

Start at: 2018-07-09 22:30:18
End at: 2018-07-09 22:30:48
Local clock offset: 0.79 ms
Remote clock offset: -3.285 ms

Below is generated by plot.py at 2018-07-10 01:22:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 337.78 Mbit/s
95th percentile per-packet one-way delay: 18.678 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 337.78 Mbit/s
95th percentile per-packet one-way delay: 18.678 ms
Loss rate: 0.02%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-07-09 22:55:51

End at: 2018-07-09 22:56:21

Local clock offset: 0.653 ms

Remote clock offset: 0.722 ms

Below is generated by plot.py at 2018-07-10 01:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.39 Mbit/s

95th percentile per-packet one-way delay: 18.667 ms

Loss rate: 0.00%

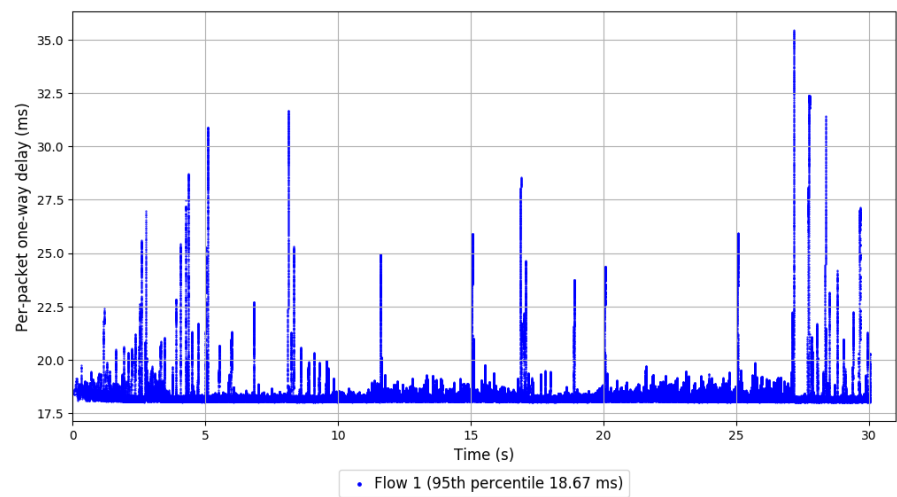
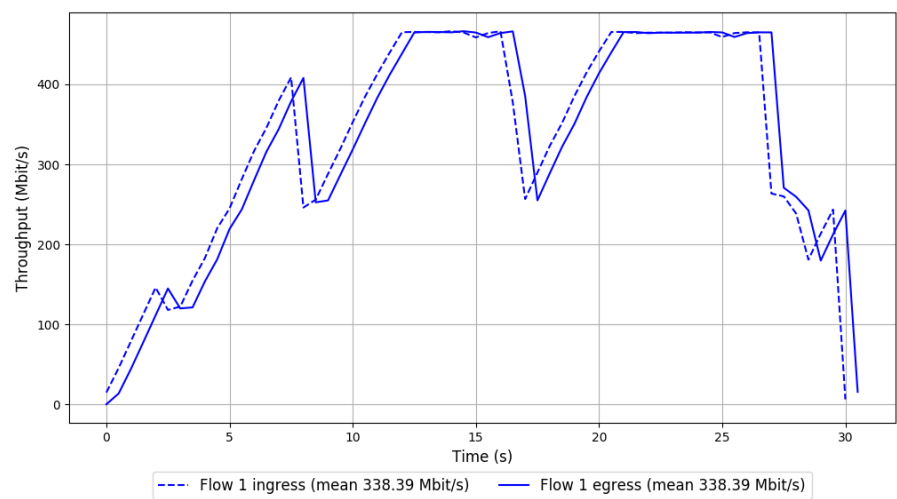
-- Flow 1:

Average throughput: 338.39 Mbit/s

95th percentile per-packet one-way delay: 18.667 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-07-09 23:20:59

End at: 2018-07-09 23:21:29

Local clock offset: 1.011 ms

Remote clock offset: 3.459 ms

Below is generated by plot.py at 2018-07-10 01:23:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.56 Mbit/s

95th percentile per-packet one-way delay: 19.038 ms

Loss rate: 0.04%

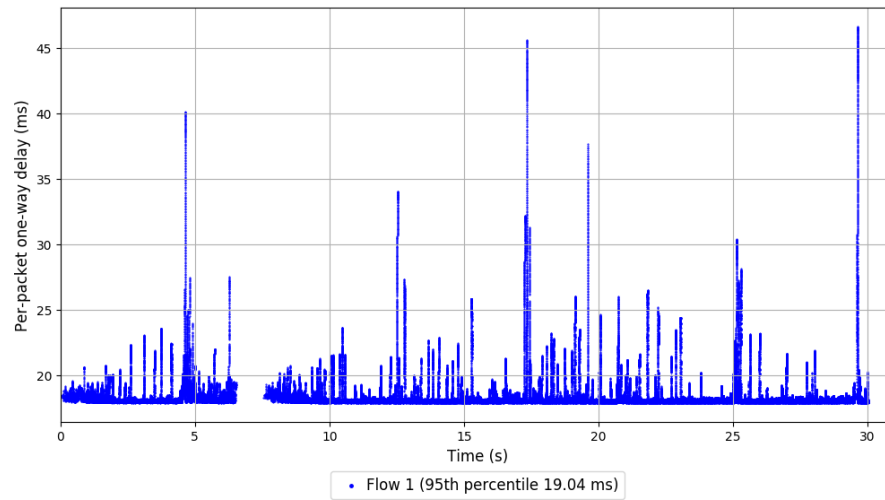
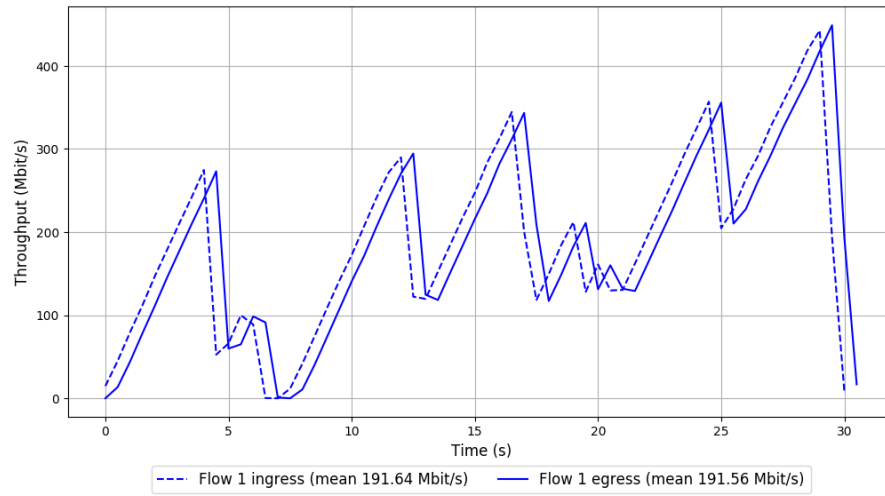
-- Flow 1:

Average throughput: 191.56 Mbit/s

95th percentile per-packet one-way delay: 19.038 ms

Loss rate: 0.04%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-07-09 23:46:22

End at: 2018-07-09 23:46:52

Local clock offset: 0.713 ms

Remote clock offset: 3.86 ms

Below is generated by plot.py at 2018-07-10 01:23:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 290.25 Mbit/s

95th percentile per-packet one-way delay: 18.546 ms

Loss rate: 0.05%

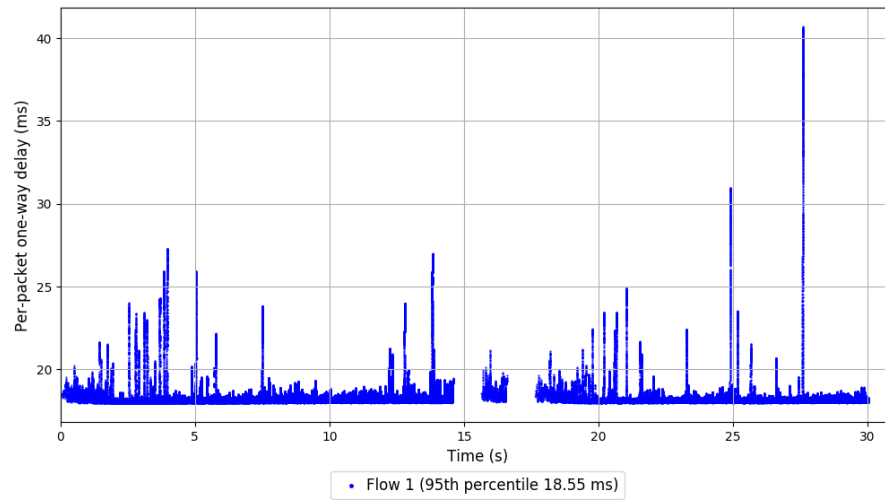
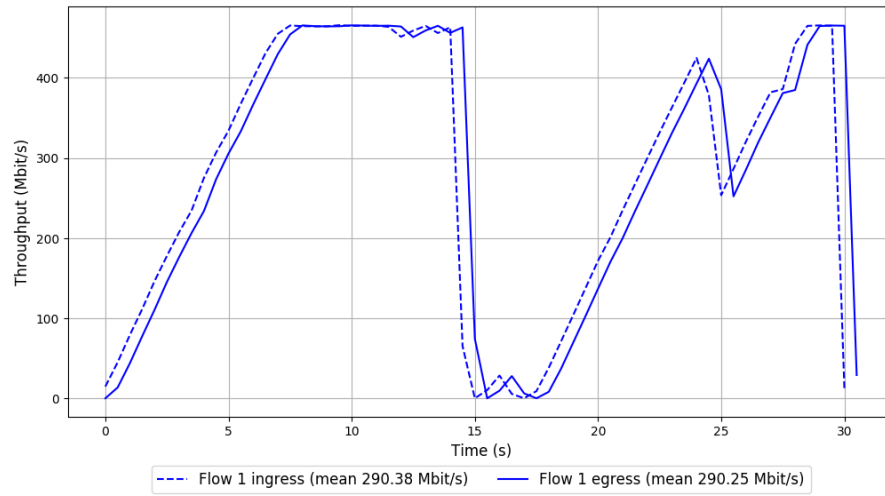
-- Flow 1:

Average throughput: 290.25 Mbit/s

95th percentile per-packet one-way delay: 18.546 ms

Loss rate: 0.05%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-07-09 20:19:49

End at: 2018-07-09 20:20:19

Local clock offset: 0.669 ms

Remote clock offset: 2.531 ms

Below is generated by plot.py at 2018-07-10 01:31:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 897.29 Mbit/s

95th percentile per-packet one-way delay: 29.158 ms

Loss rate: 0.40%

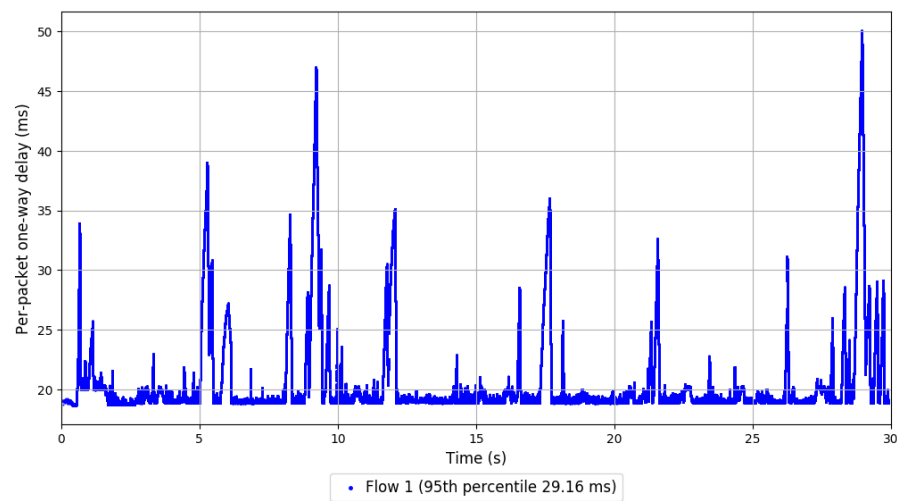
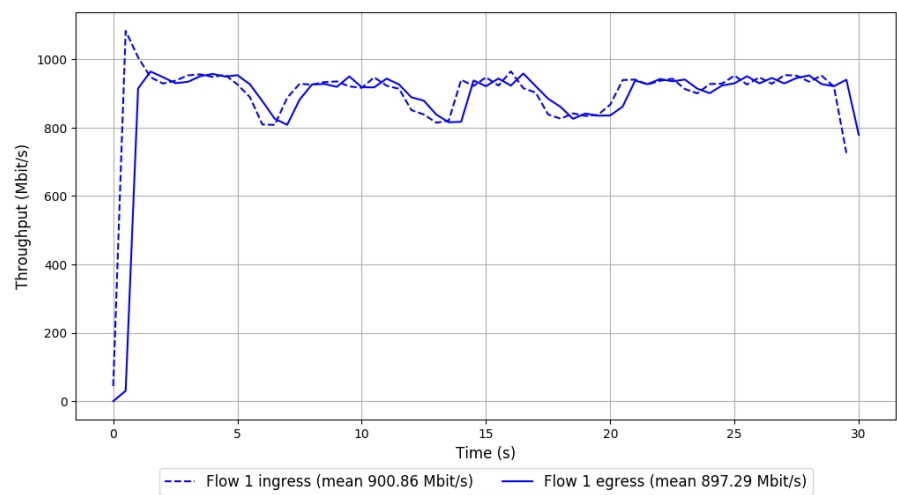
-- Flow 1:

Average throughput: 897.29 Mbit/s

95th percentile per-packet one-way delay: 29.158 ms

Loss rate: 0.40%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-07-09 20:45:11

End at: 2018-07-09 20:45:41

Local clock offset: 1.023 ms

Remote clock offset: 3.097 ms

Below is generated by plot.py at 2018-07-10 01:31:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 869.62 Mbit/s

95th percentile per-packet one-way delay: 27.122 ms

Loss rate: 0.97%

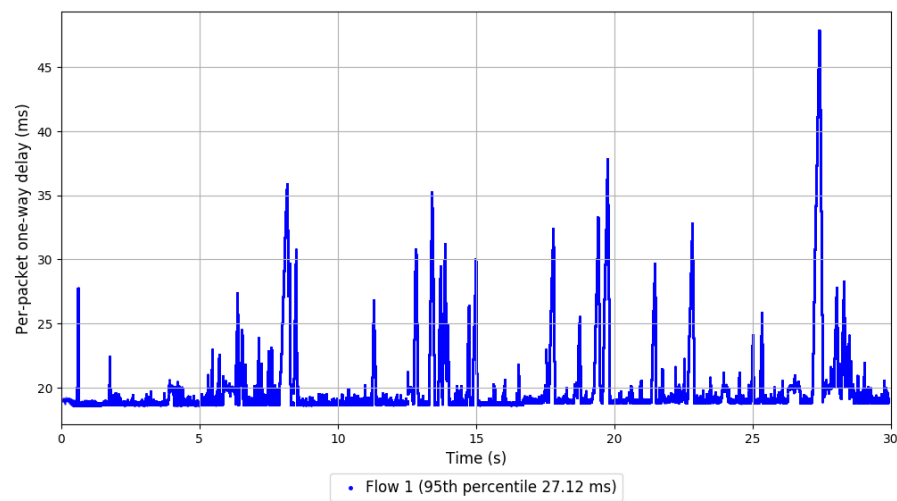
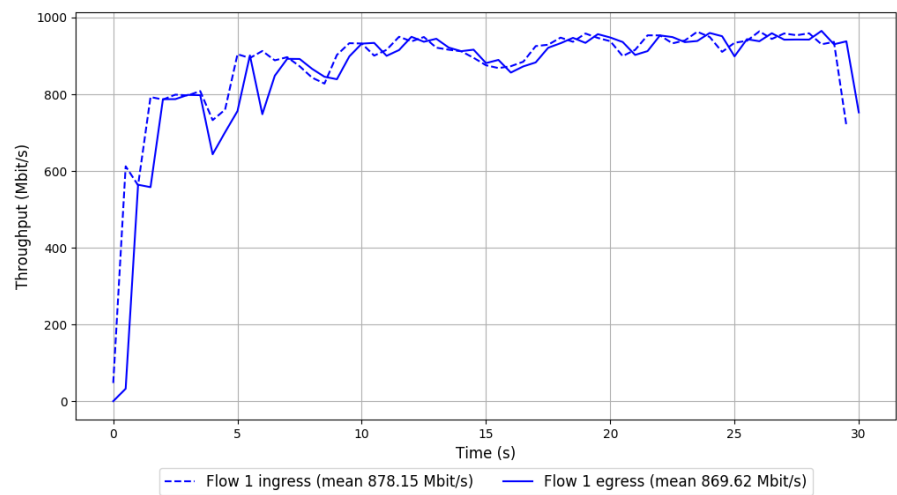
-- Flow 1:

Average throughput: 869.62 Mbit/s

95th percentile per-packet one-way delay: 27.122 ms

Loss rate: 0.97%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-07-09 21:10:32

End at: 2018-07-09 21:11:02

Local clock offset: 1.035 ms

Remote clock offset: -0.926 ms

Below is generated by plot.py at 2018-07-10 01:31:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 841.19 Mbit/s

95th percentile per-packet one-way delay: 26.579 ms

Loss rate: 1.79%

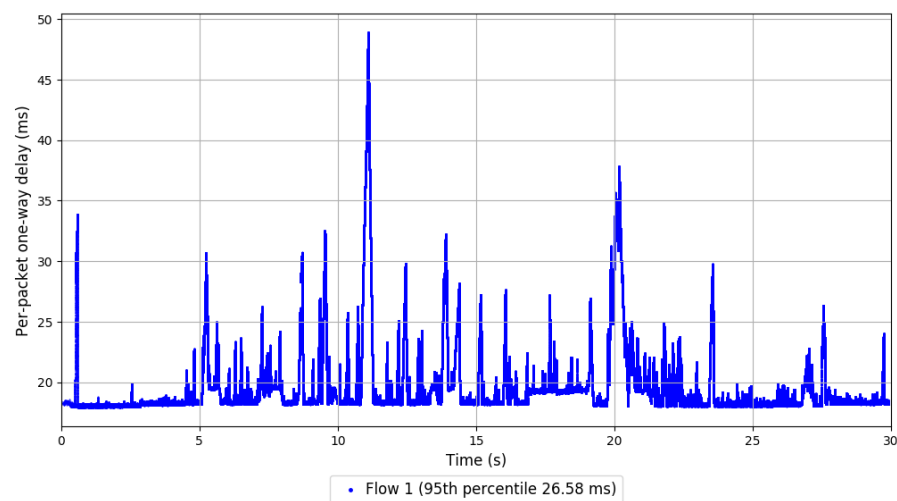
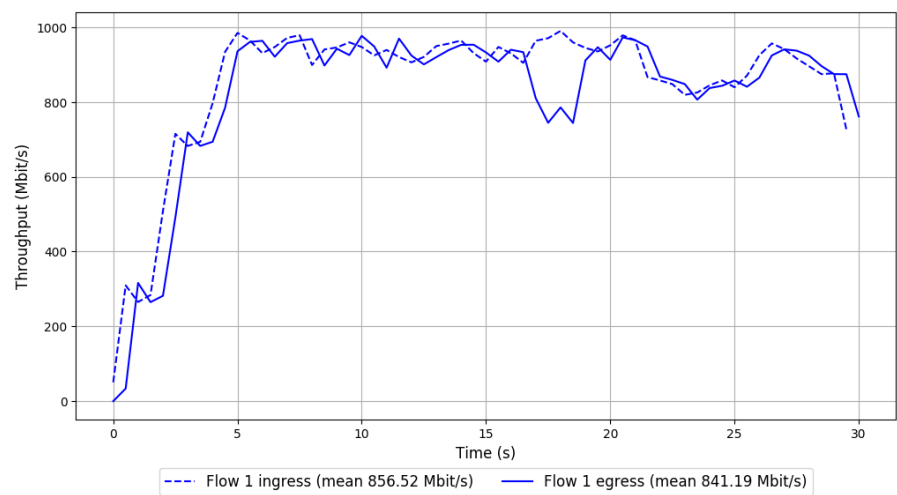
-- Flow 1:

Average throughput: 841.19 Mbit/s

95th percentile per-packet one-way delay: 26.579 ms

Loss rate: 1.79%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-07-09 21:36:16

End at: 2018-07-09 21:36:46

Local clock offset: 1.062 ms

Remote clock offset: -0.605 ms

Below is generated by plot.py at 2018-07-10 01:32:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 875.71 Mbit/s

95th percentile per-packet one-way delay: 27.082 ms

Loss rate: 0.84%

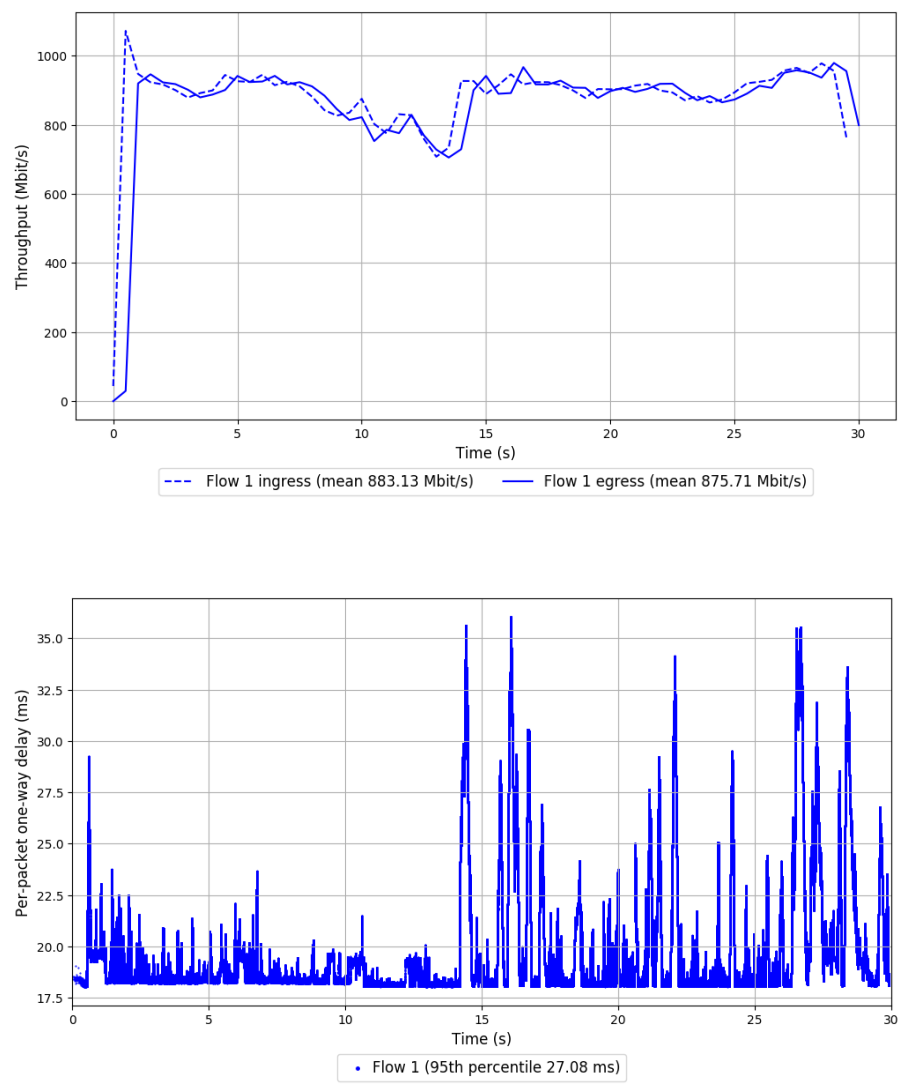
-- Flow 1:

Average throughput: 875.71 Mbit/s

95th percentile per-packet one-way delay: 27.082 ms

Loss rate: 0.84%

Run 4: Report of PCC-Allegro — Data Link

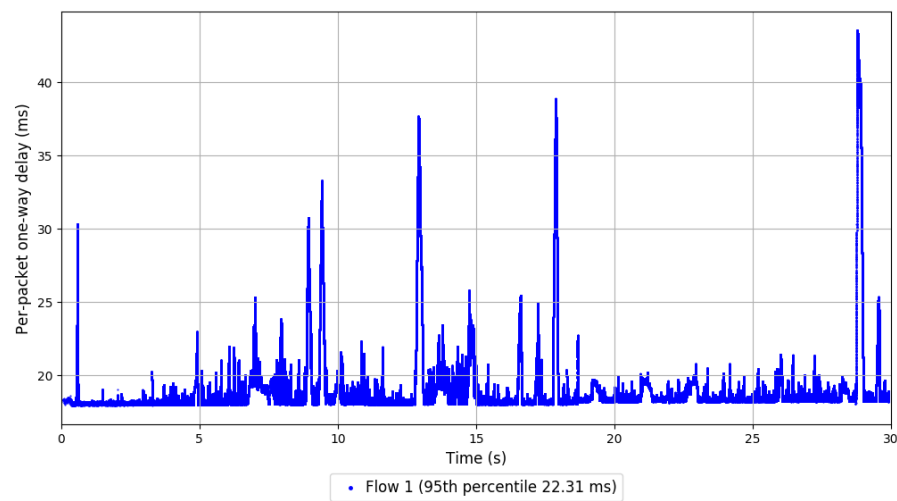
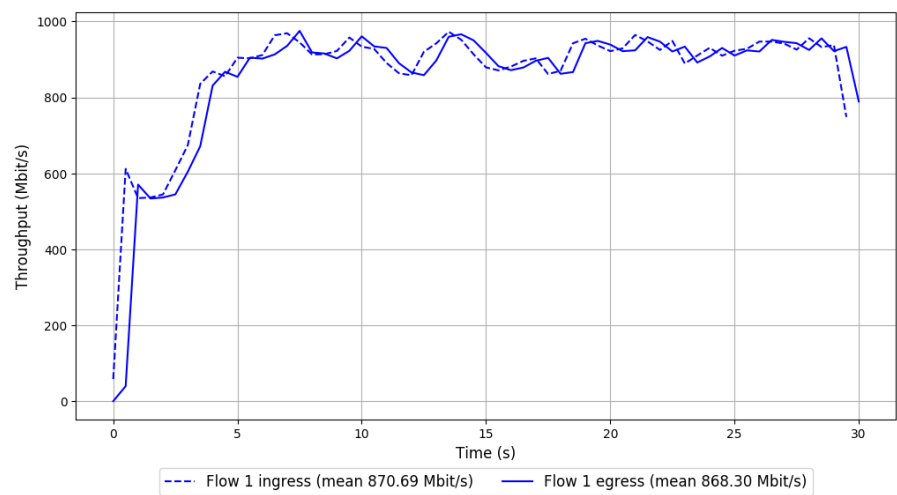


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-09 22:01:41
End at: 2018-07-09 22:02:11
Local clock offset: 1.468 ms
Remote clock offset: -1.381 ms

Below is generated by plot.py at 2018-07-10 01:32:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 868.30 Mbit/s
95th percentile per-packet one-way delay: 22.308 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 868.30 Mbit/s
95th percentile per-packet one-way delay: 22.308 ms
Loss rate: 0.27%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-07-09 22:27:12

End at: 2018-07-09 22:27:42

Local clock offset: 0.941 ms

Remote clock offset: -3.173 ms

Below is generated by plot.py at 2018-07-10 01:33:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 897.61 Mbit/s

95th percentile per-packet one-way delay: 20.122 ms

Loss rate: 0.31%

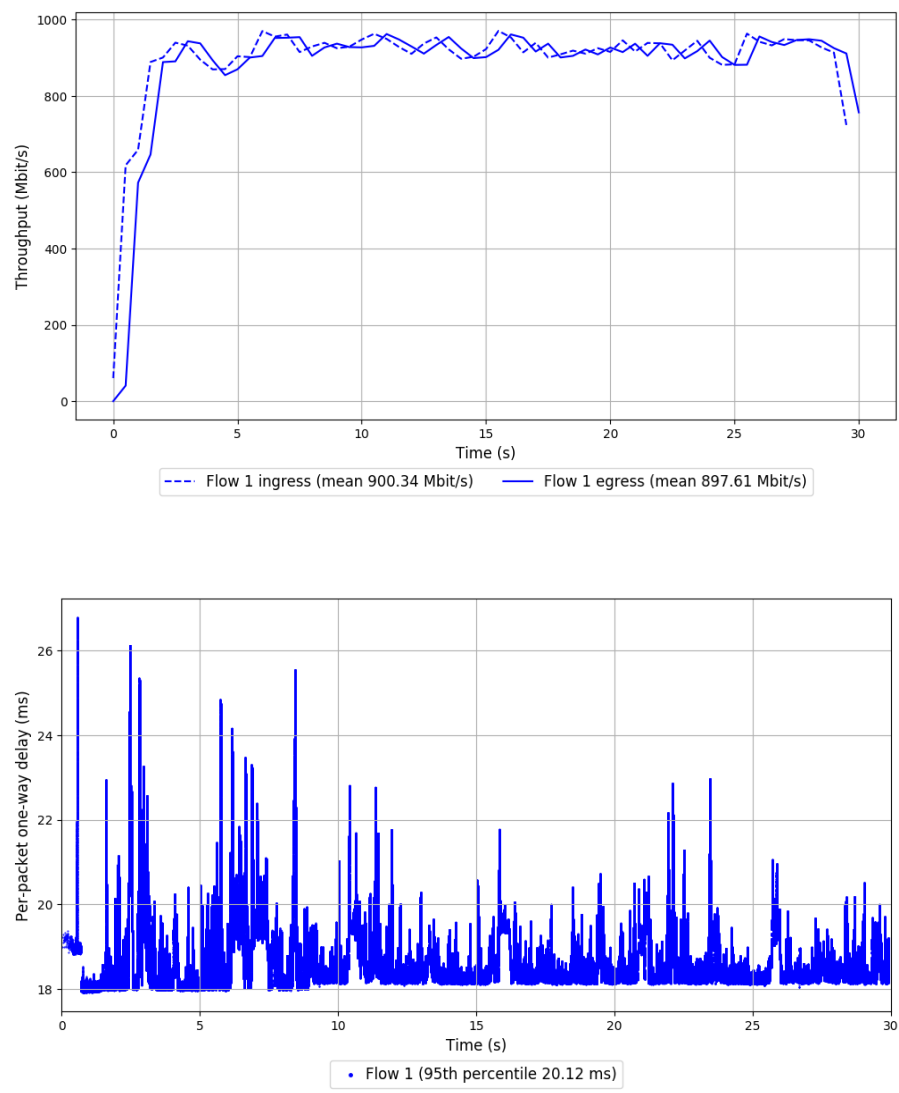
-- Flow 1:

Average throughput: 897.61 Mbit/s

95th percentile per-packet one-way delay: 20.122 ms

Loss rate: 0.31%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-07-09 22:52:48

End at: 2018-07-09 22:53:18

Local clock offset: 0.722 ms

Remote clock offset: 0.528 ms

Below is generated by plot.py at 2018-07-10 01:33:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 874.58 Mbit/s

95th percentile per-packet one-way delay: 22.554 ms

Loss rate: 0.32%

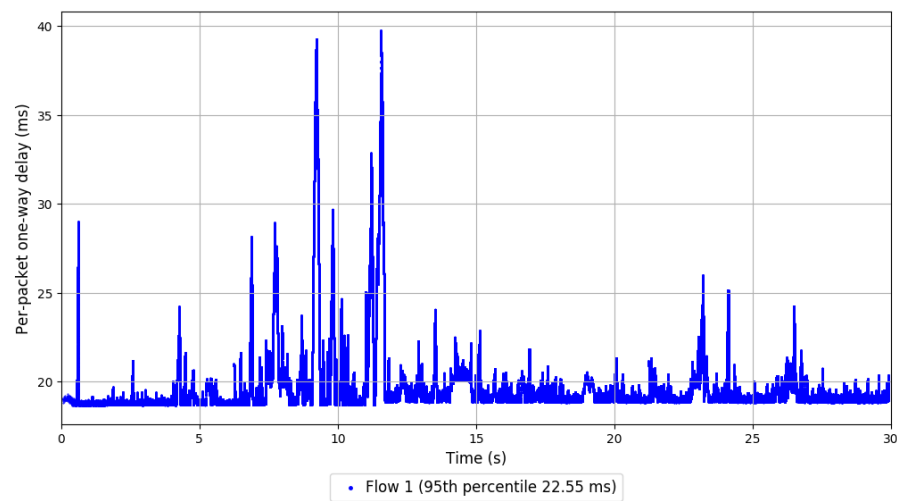
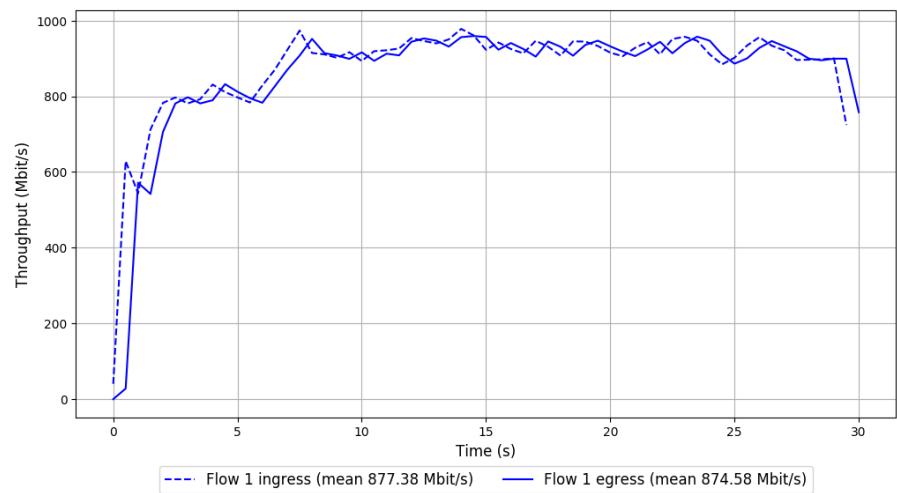
-- Flow 1:

Average throughput: 874.58 Mbit/s

95th percentile per-packet one-way delay: 22.554 ms

Loss rate: 0.32%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-07-09 23:17:51

End at: 2018-07-09 23:18:21

Local clock offset: 0.886 ms

Remote clock offset: 3.165 ms

Below is generated by plot.py at 2018-07-10 01:34:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 880.00 Mbit/s

95th percentile per-packet one-way delay: 20.138 ms

Loss rate: 0.97%

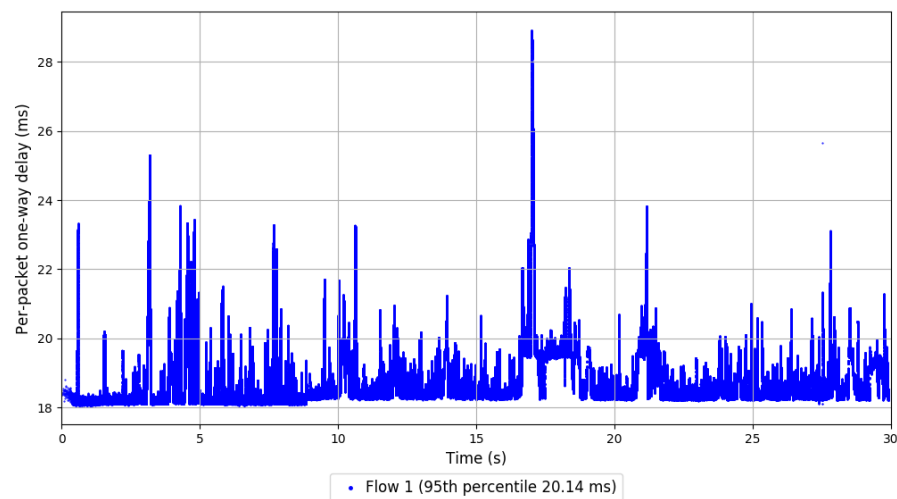
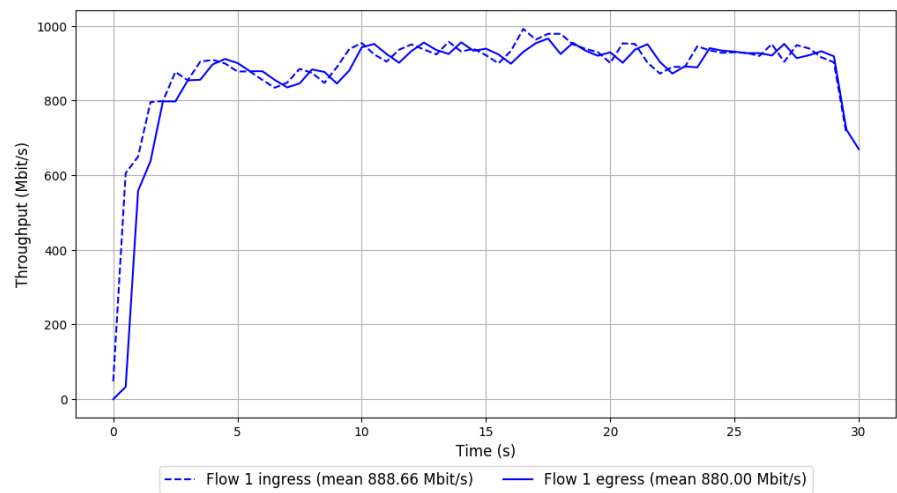
-- Flow 1:

Average throughput: 880.00 Mbit/s

95th percentile per-packet one-way delay: 20.138 ms

Loss rate: 0.97%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-09 23:43:18

End at: 2018-07-09 23:43:48

Local clock offset: 0.781 ms

Remote clock offset: 4.186 ms

Below is generated by plot.py at 2018-07-10 01:42:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 902.58 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 0.23%

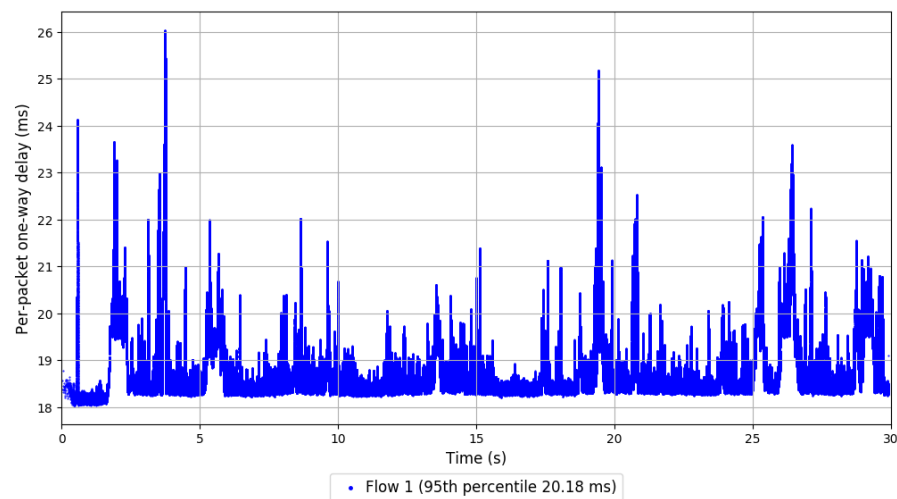
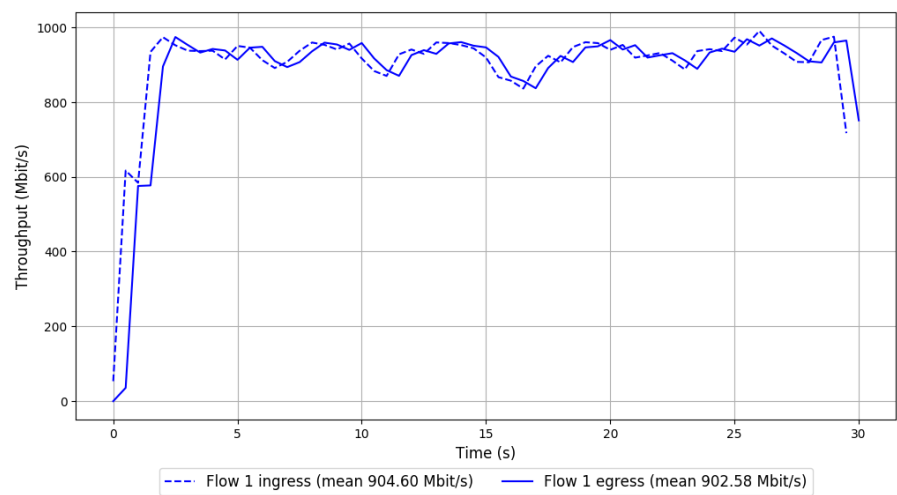
-- Flow 1:

Average throughput: 902.58 Mbit/s

95th percentile per-packet one-way delay: 20.180 ms

Loss rate: 0.23%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-07-10 00:08:40

End at: 2018-07-10 00:09:10

Local clock offset: 0.375 ms

Remote clock offset: 3.835 ms

Below is generated by plot.py at 2018-07-10 01:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 906.64 Mbit/s

95th percentile per-packet one-way delay: 19.637 ms

Loss rate: 0.28%

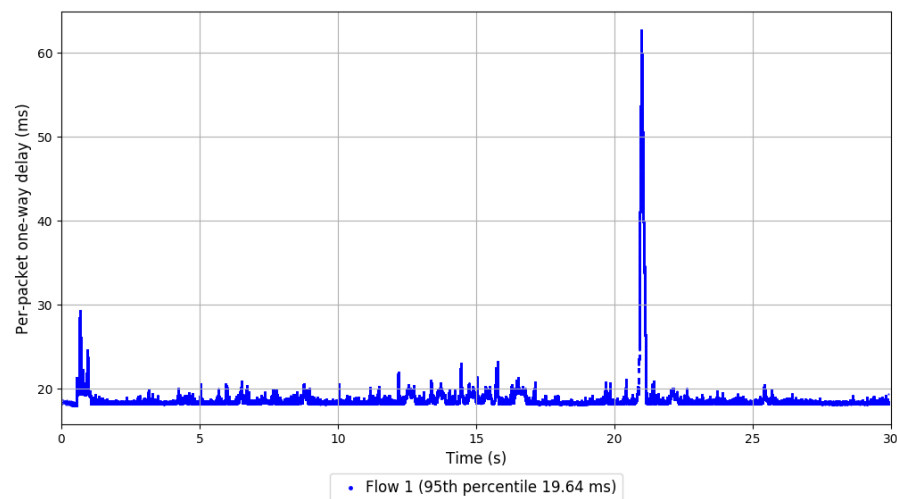
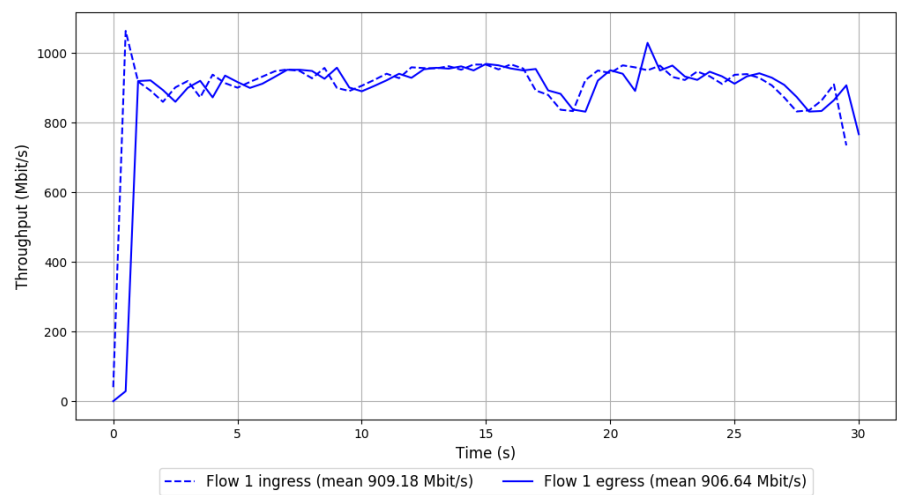
-- Flow 1:

Average throughput: 906.64 Mbit/s

95th percentile per-packet one-way delay: 19.637 ms

Loss rate: 0.28%

Run 10: Report of PCC-Allegro — Data Link

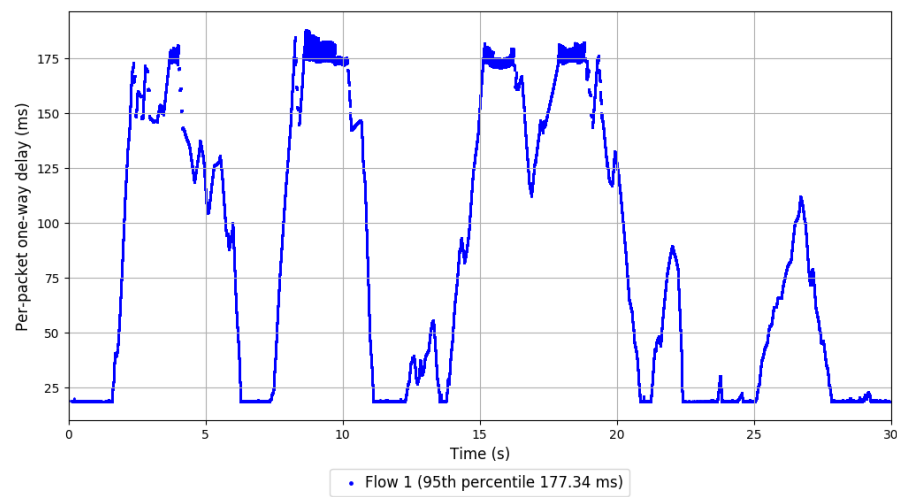
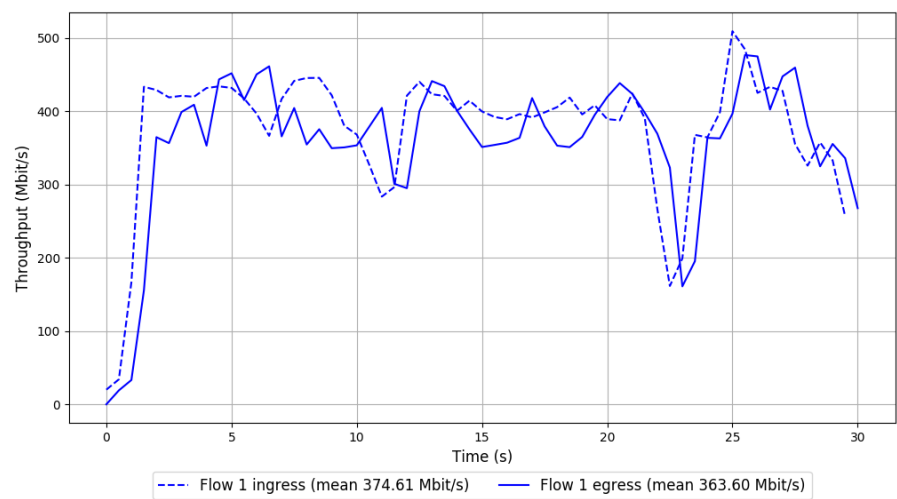


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-09 20:18:10
End at: 2018-07-09 20:18:40
Local clock offset: 0.609 ms
Remote clock offset: 2.528 ms

# Below is generated by plot.py at 2018-07-10 01:42:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 363.60 Mbit/s
95th percentile per-packet one-way delay: 177.335 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 363.60 Mbit/s
95th percentile per-packet one-way delay: 177.335 ms
Loss rate: 2.94%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-07-09 20:43:32

End at: 2018-07-09 20:44:02

Local clock offset: 1.024 ms

Remote clock offset: 3.02 ms

Below is generated by plot.py at 2018-07-10 01:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 364.78 Mbit/s

95th percentile per-packet one-way delay: 97.611 ms

Loss rate: 0.00%

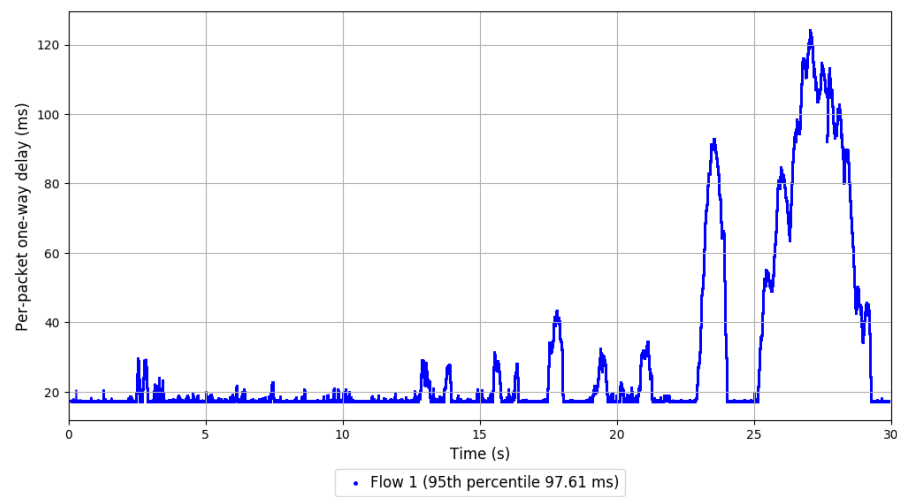
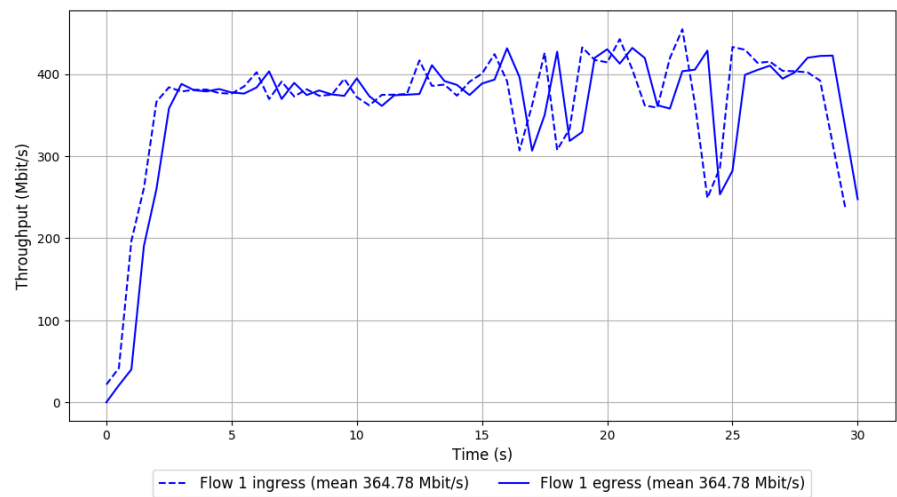
-- Flow 1:

Average throughput: 364.78 Mbit/s

95th percentile per-packet one-way delay: 97.611 ms

Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-07-09 21:08:54

End at: 2018-07-09 21:09:24

Local clock offset: 1.062 ms

Remote clock offset: -0.835 ms

Below is generated by plot.py at 2018-07-10 01:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 353.10 Mbit/s

95th percentile per-packet one-way delay: 71.051 ms

Loss rate: 0.37%

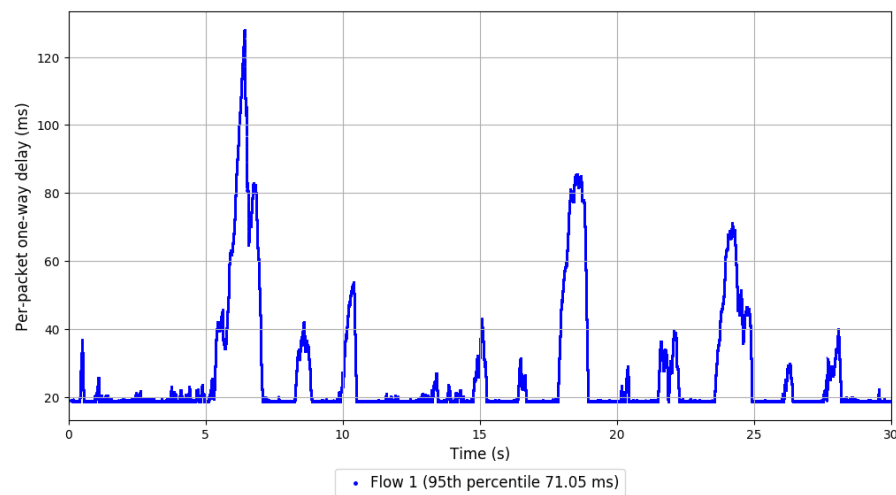
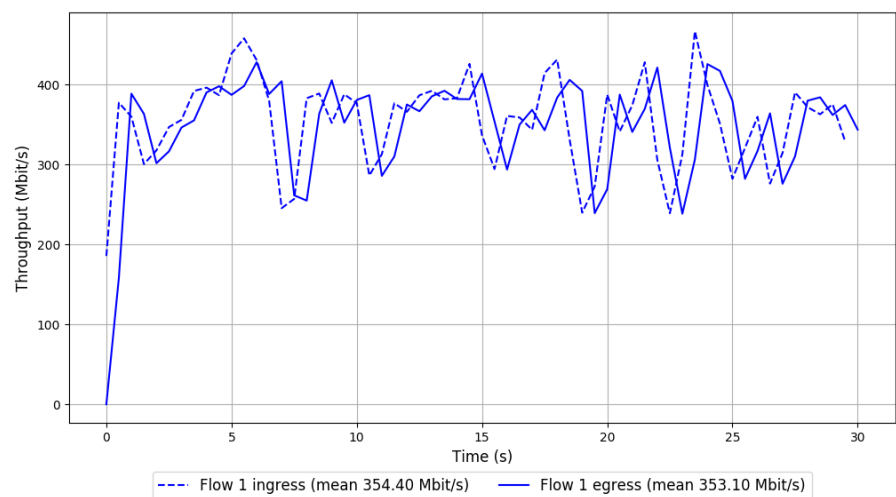
-- Flow 1:

Average throughput: 353.10 Mbit/s

95th percentile per-packet one-way delay: 71.051 ms

Loss rate: 0.37%

Run 3: Report of PCC-Expr — Data Link

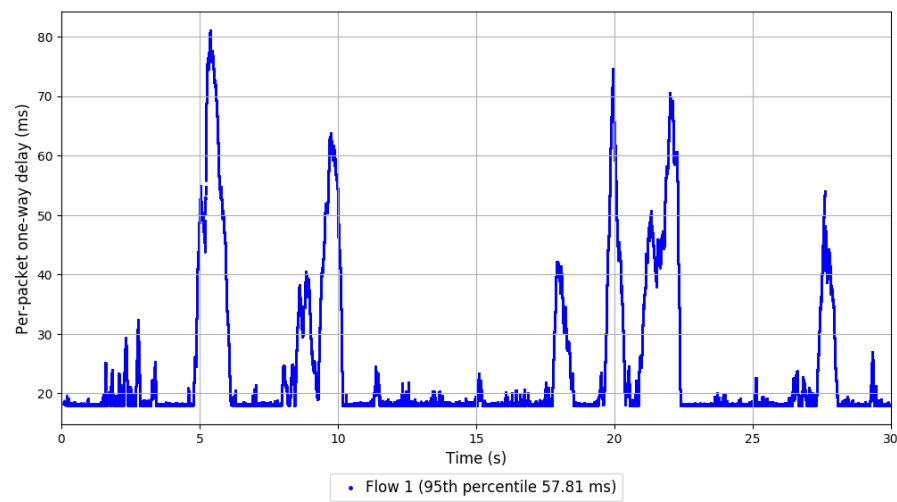
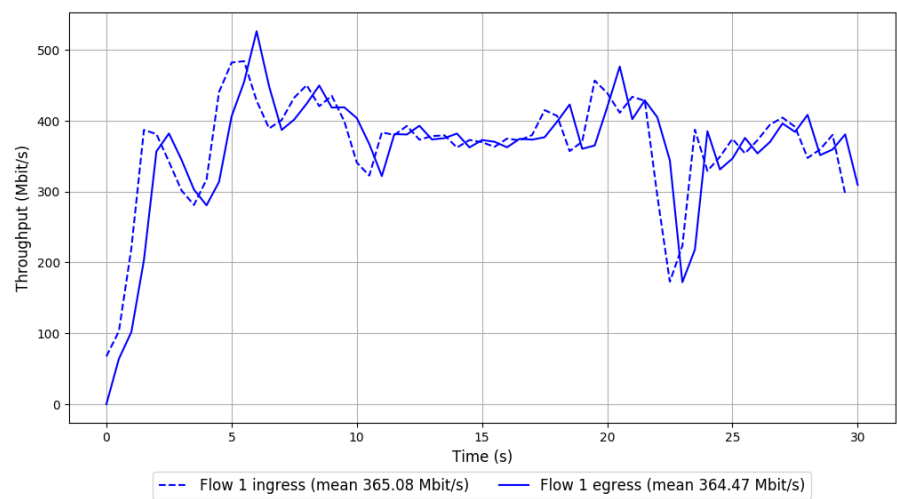


Run 4: Statistics of PCC-Expr

Start at: 2018-07-09 21:34:36
End at: 2018-07-09 21:35:06
Local clock offset: 1.032 ms
Remote clock offset: -0.679 ms

Below is generated by plot.py at 2018-07-10 01:42:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 364.47 Mbit/s
95th percentile per-packet one-way delay: 57.807 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 364.47 Mbit/s
95th percentile per-packet one-way delay: 57.807 ms
Loss rate: 0.17%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-07-09 22:00:02

End at: 2018-07-09 22:00:32

Local clock offset: 1.473 ms

Remote clock offset: -1.13 ms

Below is generated by plot.py at 2018-07-10 01:42:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 151.337 ms

Loss rate: 1.21%

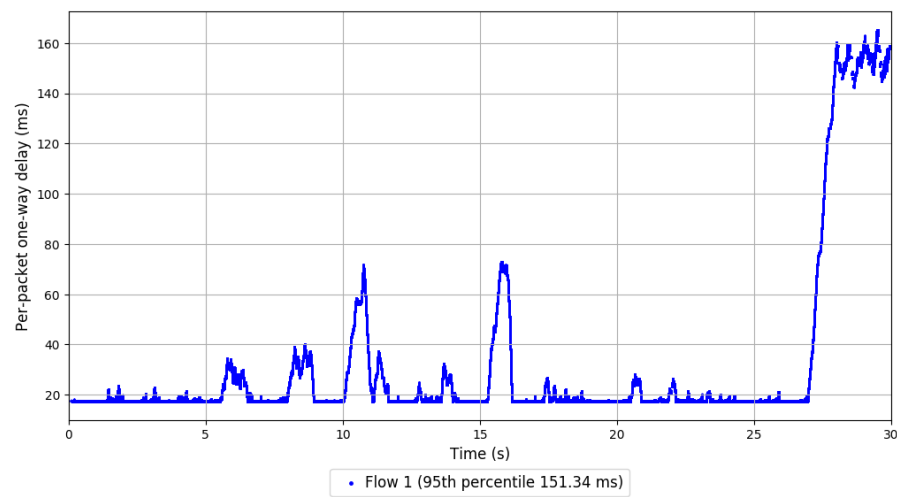
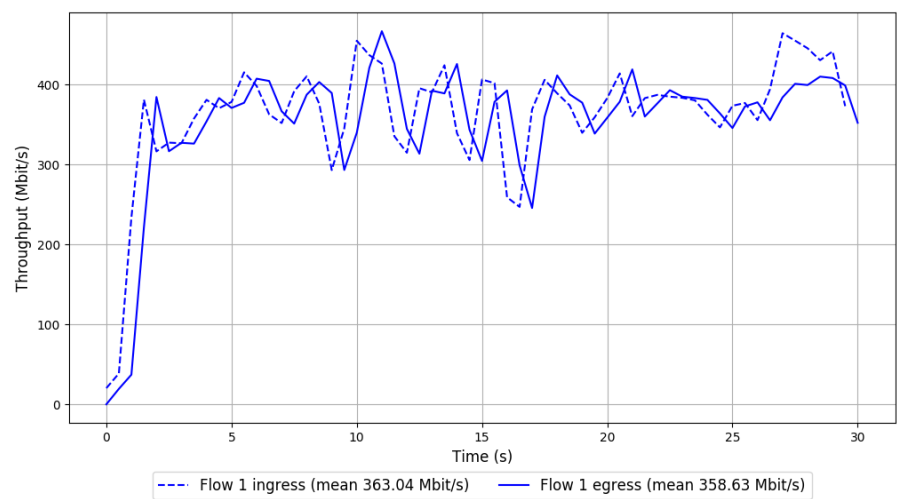
-- Flow 1:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 151.337 ms

Loss rate: 1.21%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-07-09 22:25:32

End at: 2018-07-09 22:26:02

Local clock offset: 0.871 ms

Remote clock offset: -3.037 ms

Below is generated by plot.py at 2018-07-10 01:43:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 373.11 Mbit/s

95th percentile per-packet one-way delay: 153.343 ms

Loss rate: 0.88%

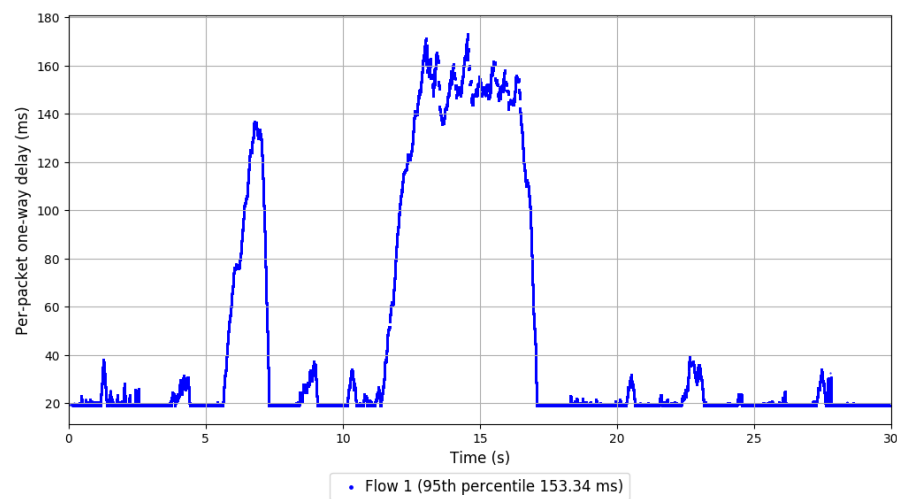
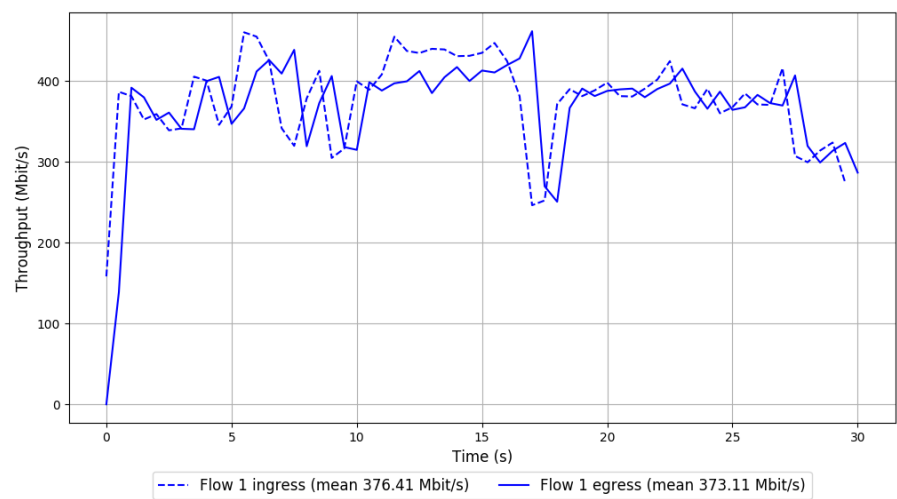
-- Flow 1:

Average throughput: 373.11 Mbit/s

95th percentile per-packet one-way delay: 153.343 ms

Loss rate: 0.88%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-07-09 22:51:09

End at: 2018-07-09 22:51:39

Local clock offset: 0.629 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-07-10 01:48:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.63 Mbit/s

95th percentile per-packet one-way delay: 139.262 ms

Loss rate: 0.21%

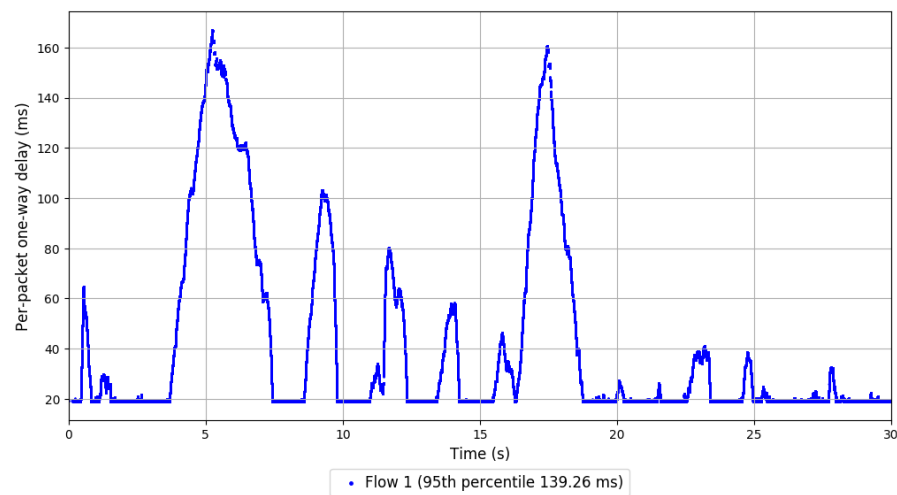
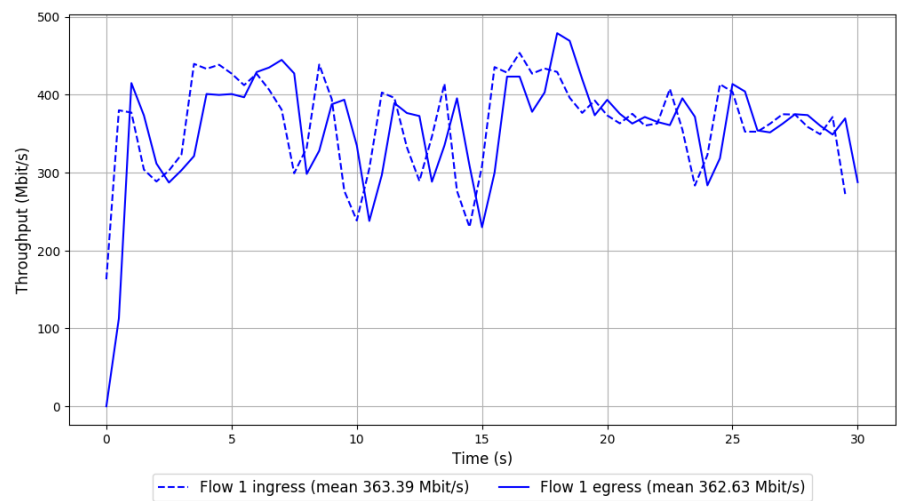
-- Flow 1:

Average throughput: 362.63 Mbit/s

95th percentile per-packet one-way delay: 139.262 ms

Loss rate: 0.21%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-07-09 23:16:12

End at: 2018-07-09 23:16:42

Local clock offset: 0.86 ms

Remote clock offset: 2.93 ms

Below is generated by plot.py at 2018-07-10 01:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.02 Mbit/s

95th percentile per-packet one-way delay: 103.790 ms

Loss rate: 0.39%

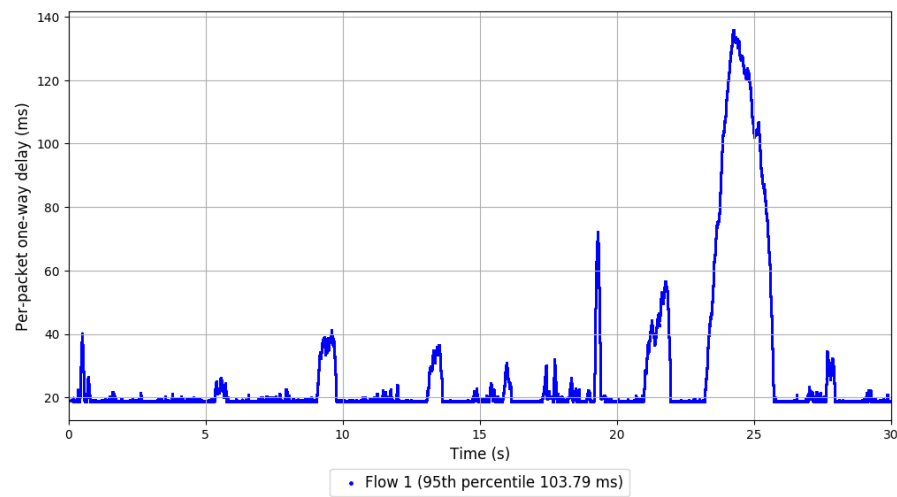
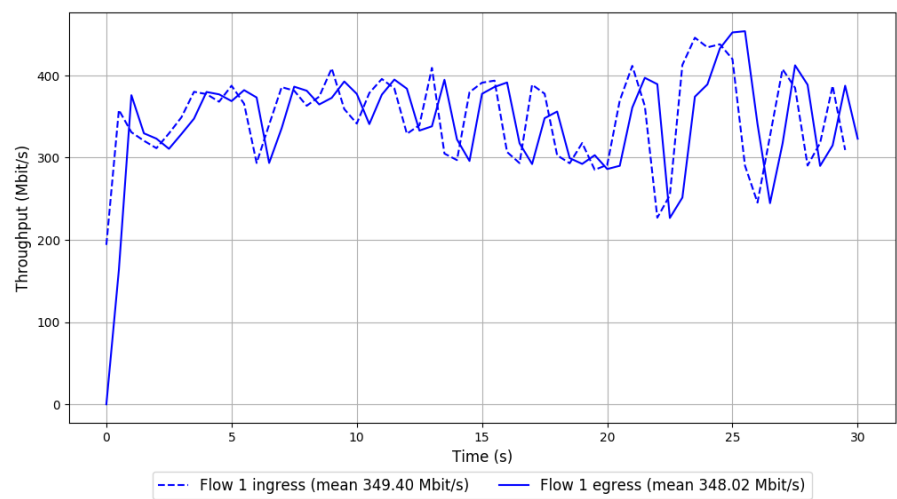
-- Flow 1:

Average throughput: 348.02 Mbit/s

95th percentile per-packet one-way delay: 103.790 ms

Loss rate: 0.39%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-07-09 23:41:40

End at: 2018-07-09 23:42:10

Local clock offset: 0.924 ms

Remote clock offset: 4.377 ms

Below is generated by plot.py at 2018-07-10 01:48:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.30 Mbit/s

95th percentile per-packet one-way delay: 33.634 ms

Loss rate: 0.32%

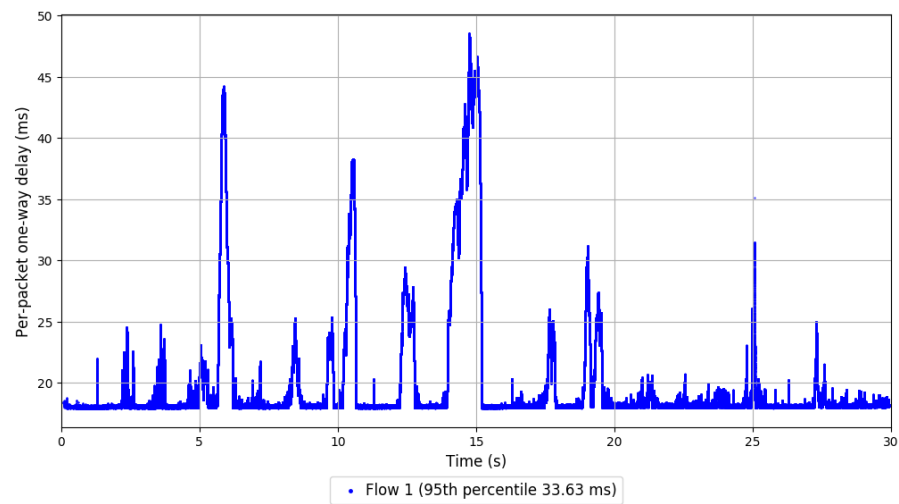
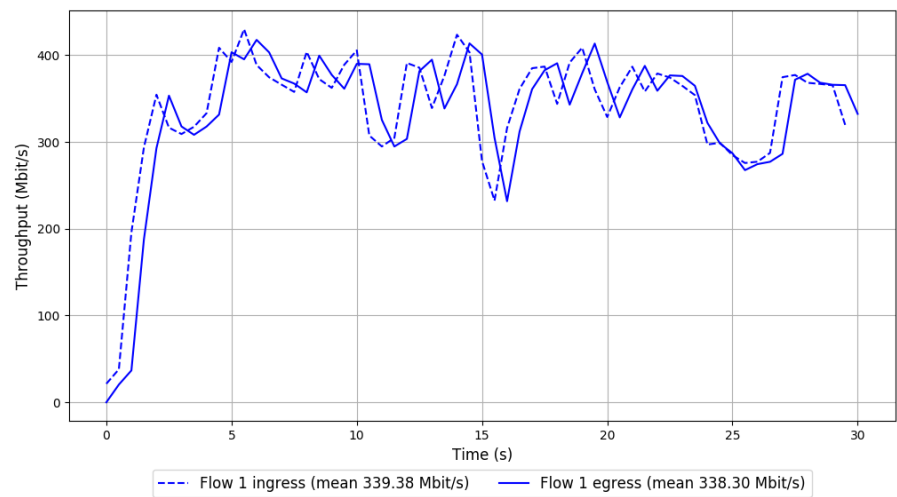
-- Flow 1:

Average throughput: 338.30 Mbit/s

95th percentile per-packet one-way delay: 33.634 ms

Loss rate: 0.32%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-07-10 00:07:02

End at: 2018-07-10 00:07:32

Local clock offset: 0.318 ms

Remote clock offset: 3.782 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.20 Mbit/s

95th percentile per-packet one-way delay: 155.563 ms

Loss rate: 1.68%

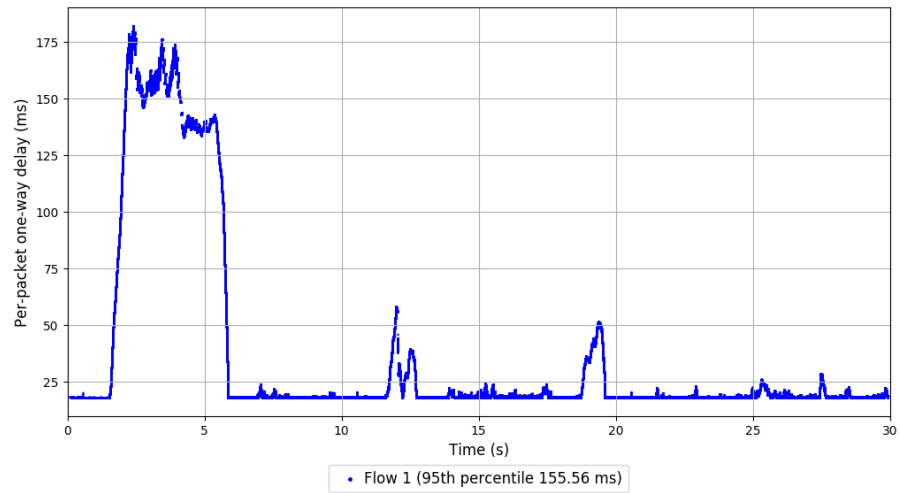
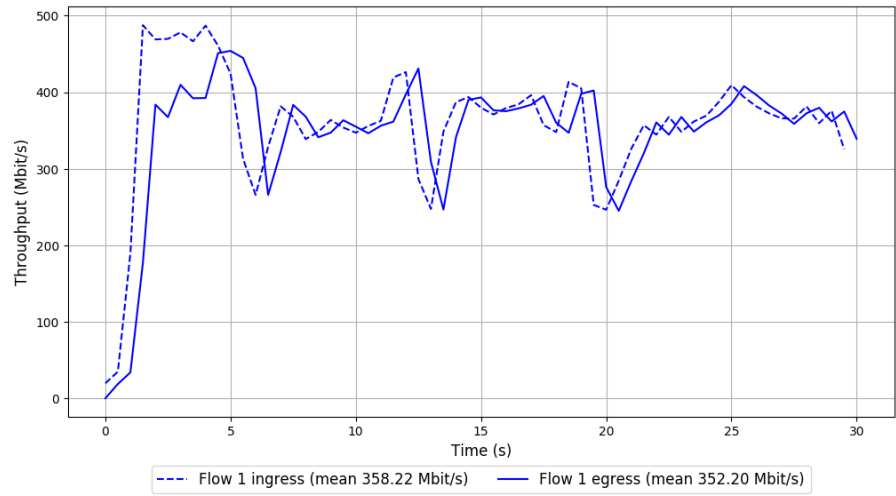
-- Flow 1:

Average throughput: 352.20 Mbit/s

95th percentile per-packet one-way delay: 155.563 ms

Loss rate: 1.68%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-07-09 20:16:51

End at: 2018-07-09 20:17:21

Local clock offset: 0.583 ms

Remote clock offset: 2.375 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 18.993 ms

Loss rate: 0.10%

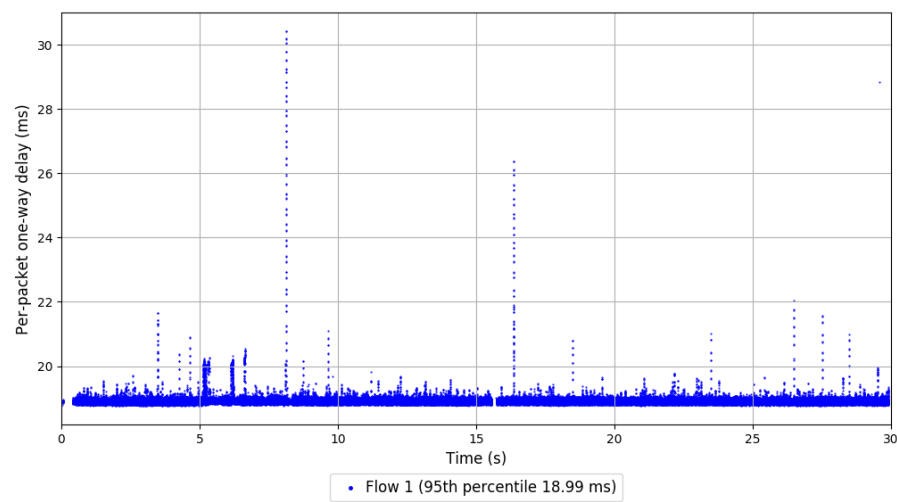
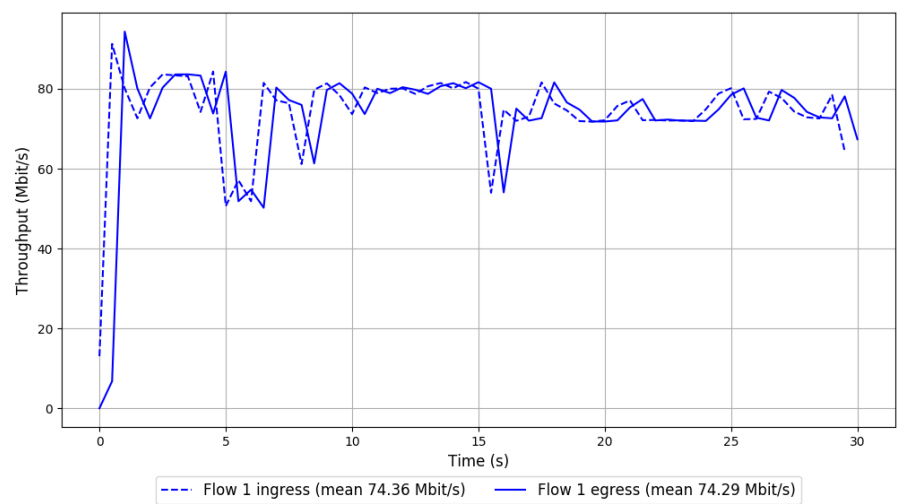
-- Flow 1:

Average throughput: 74.29 Mbit/s

95th percentile per-packet one-way delay: 18.993 ms

Loss rate: 0.10%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-07-09 20:42:12

End at: 2018-07-09 20:42:42

Local clock offset: 1.008 ms

Remote clock offset: 3.048 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 17.373 ms

Loss rate: 0.03%

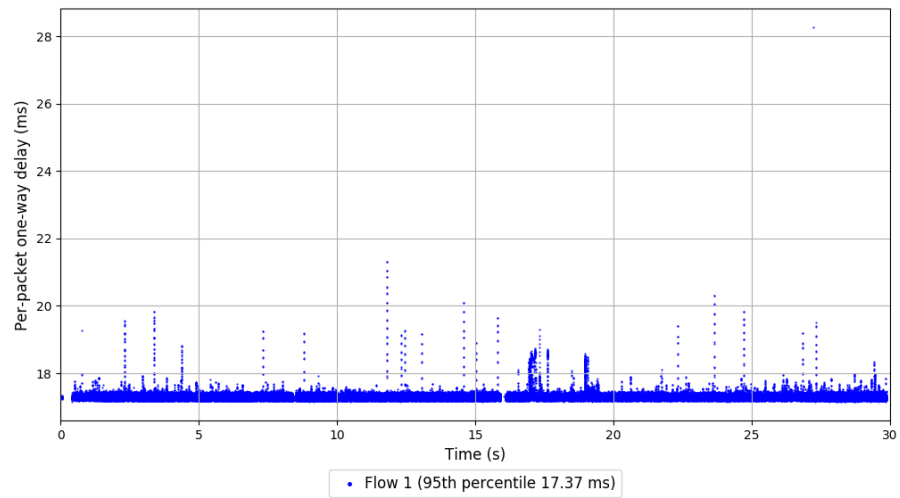
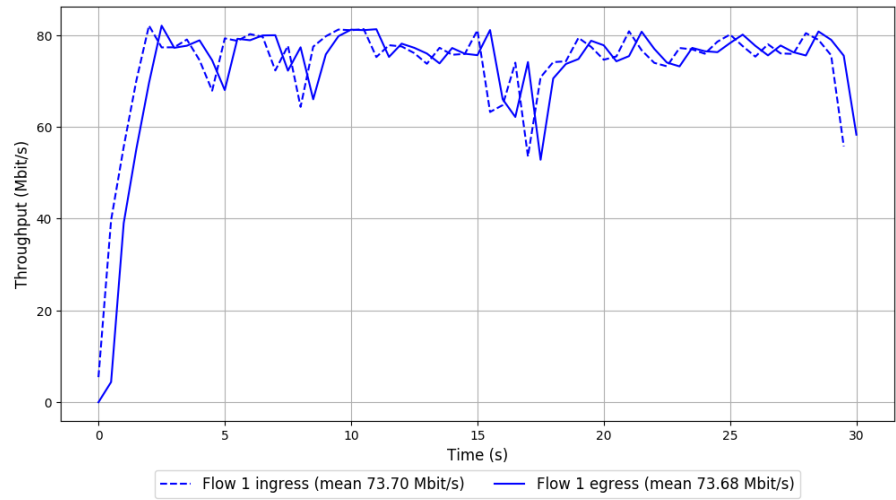
-- Flow 1:

Average throughput: 73.68 Mbit/s

95th percentile per-packet one-way delay: 17.373 ms

Loss rate: 0.03%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-07-09 21:07:33

End at: 2018-07-09 21:08:03

Local clock offset: 1.087 ms

Remote clock offset: -0.706 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 17.389 ms

Loss rate: 0.00%

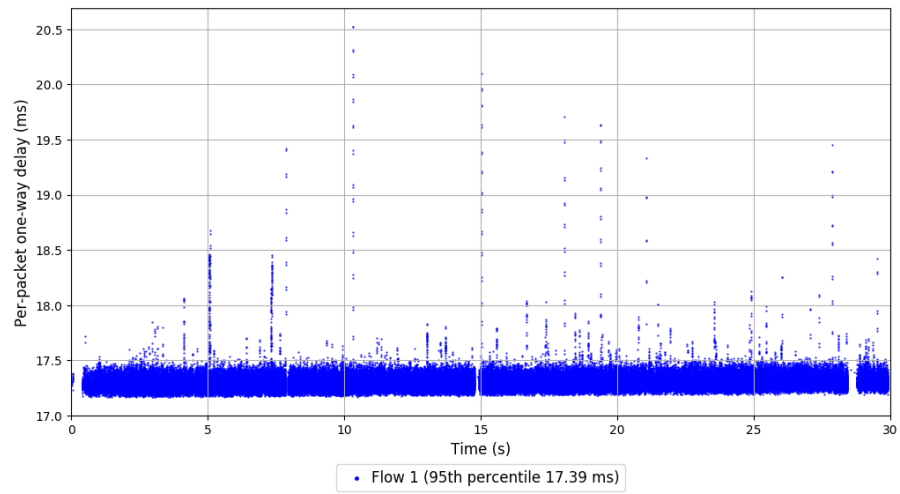
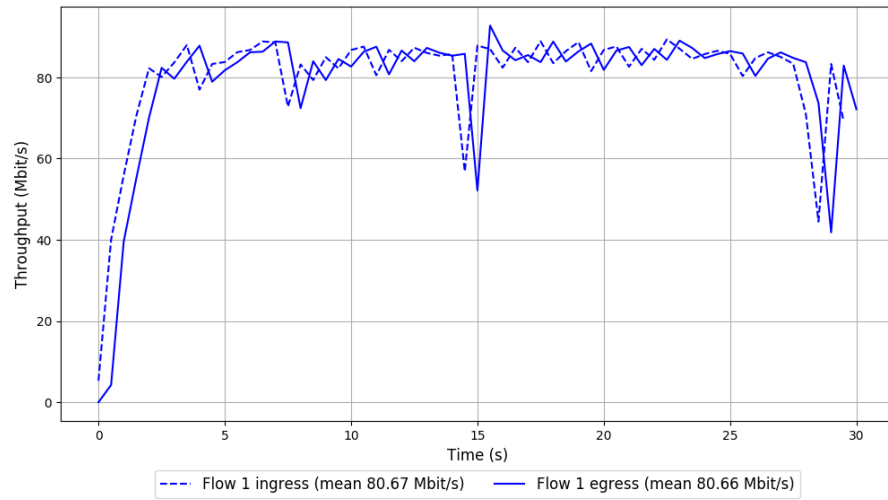
-- Flow 1:

Average throughput: 80.66 Mbit/s

95th percentile per-packet one-way delay: 17.389 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-07-09 21:33:16

End at: 2018-07-09 21:33:46

Local clock offset: 1.118 ms

Remote clock offset: -0.675 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.00 Mbit/s

95th percentile per-packet one-way delay: 19.018 ms

Loss rate: 0.09%

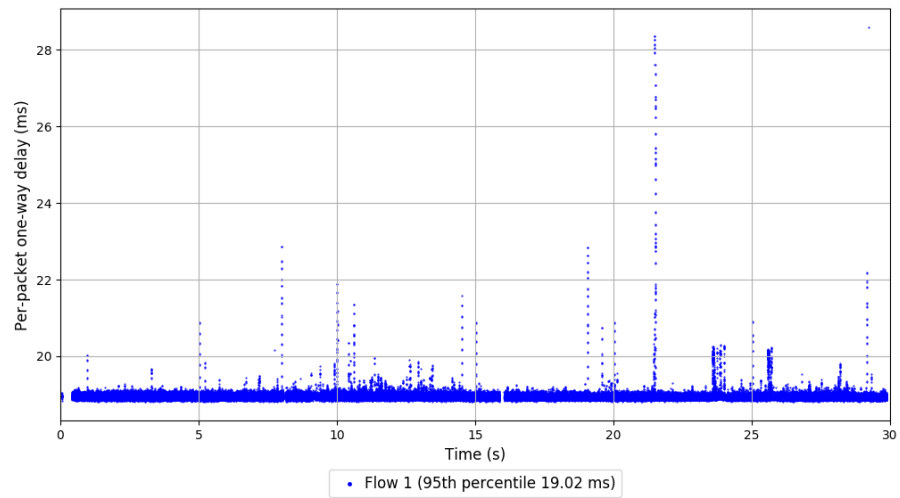
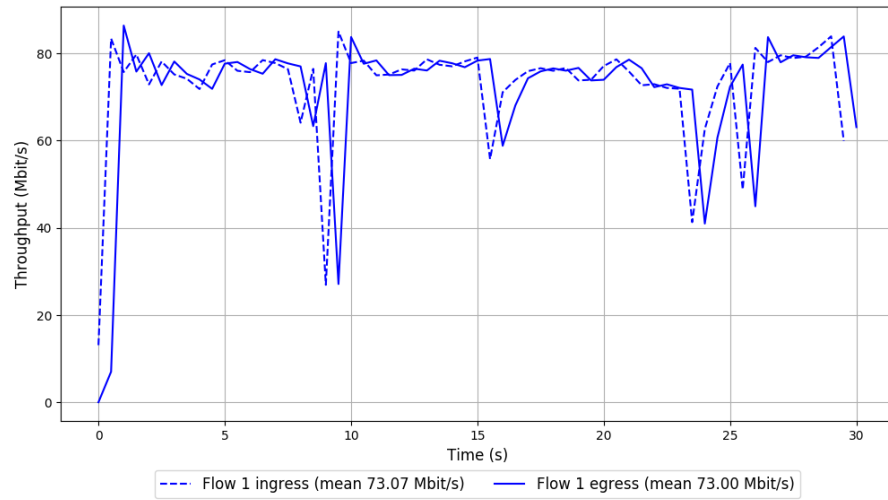
-- Flow 1:

Average throughput: 73.00 Mbit/s

95th percentile per-packet one-way delay: 19.018 ms

Loss rate: 0.09%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-07-09 21:58:42

End at: 2018-07-09 21:59:12

Local clock offset: 1.377 ms

Remote clock offset: -0.934 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 18.252 ms

Loss rate: 0.08%

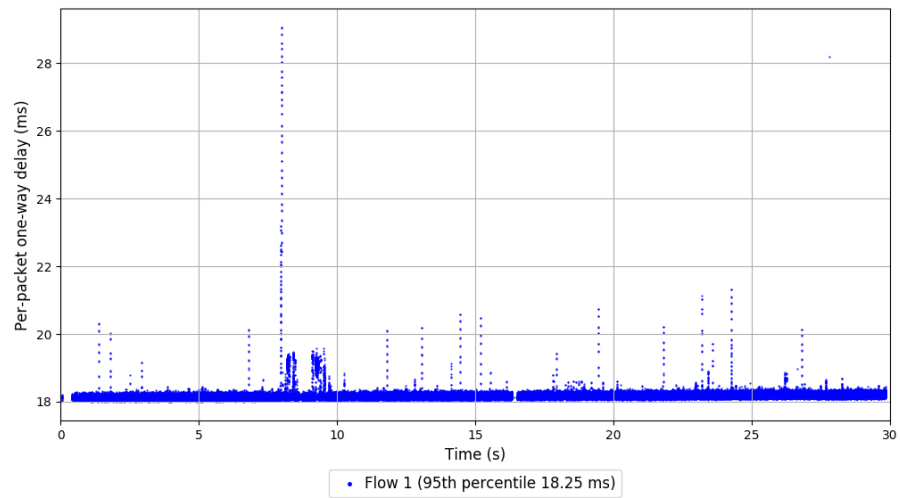
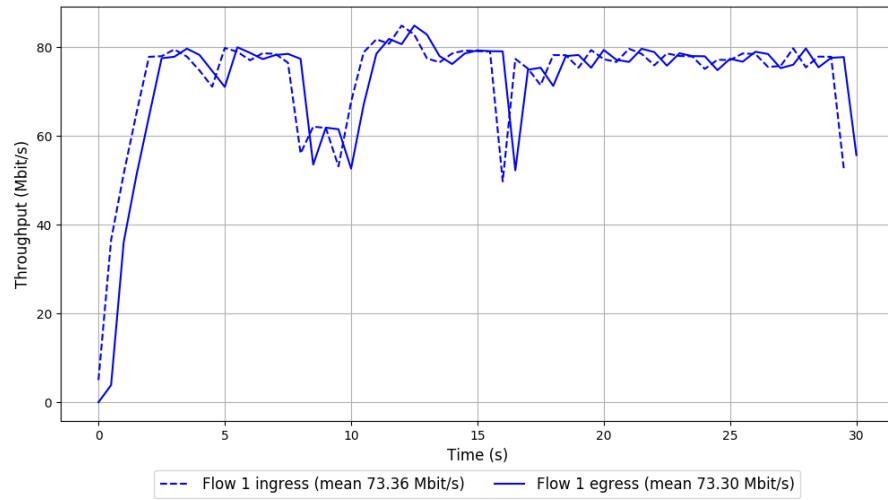
-- Flow 1:

Average throughput: 73.30 Mbit/s

95th percentile per-packet one-way delay: 18.252 ms

Loss rate: 0.08%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-07-09 22:24:12

End at: 2018-07-09 22:24:42

Local clock offset: 1.006 ms

Remote clock offset: -3.059 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.77 Mbit/s

95th percentile per-packet one-way delay: 18.986 ms

Loss rate: 0.02%

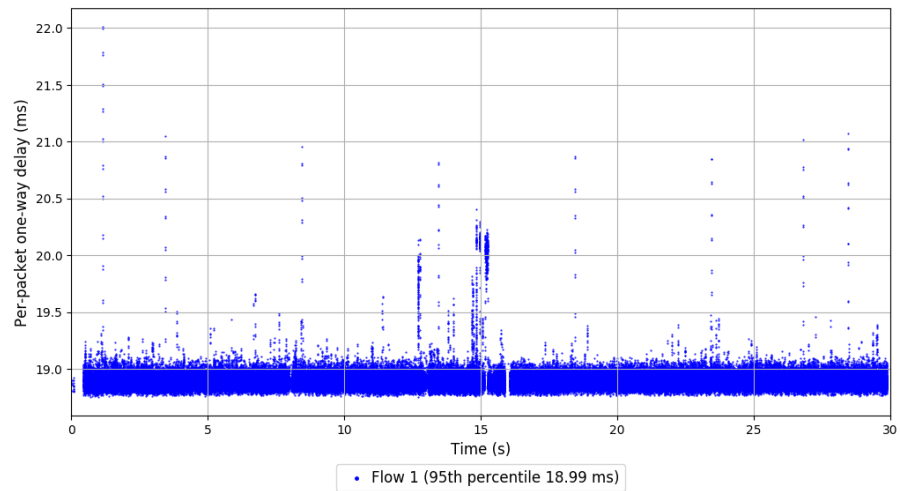
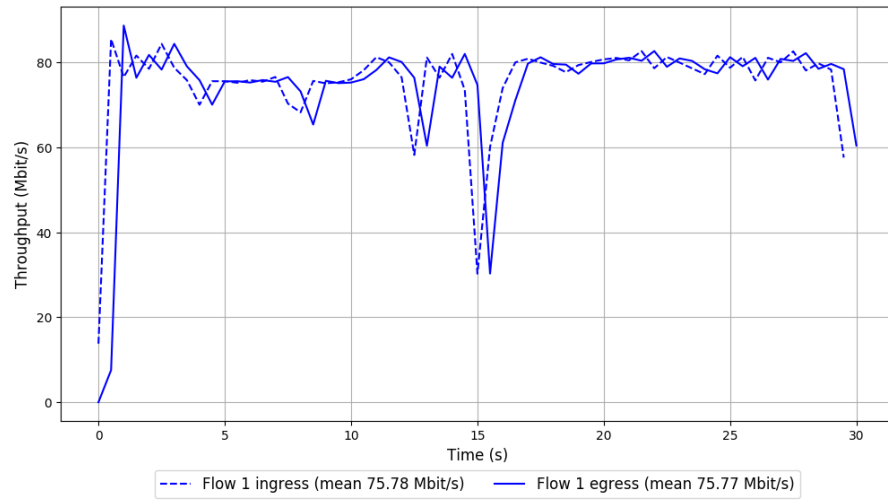
-- Flow 1:

Average throughput: 75.77 Mbit/s

95th percentile per-packet one-way delay: 18.986 ms

Loss rate: 0.02%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-07-09 22:49:48

End at: 2018-07-09 22:50:18

Local clock offset: 0.711 ms

Remote clock offset: 0.216 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 18.733 ms

Loss rate: 0.09%

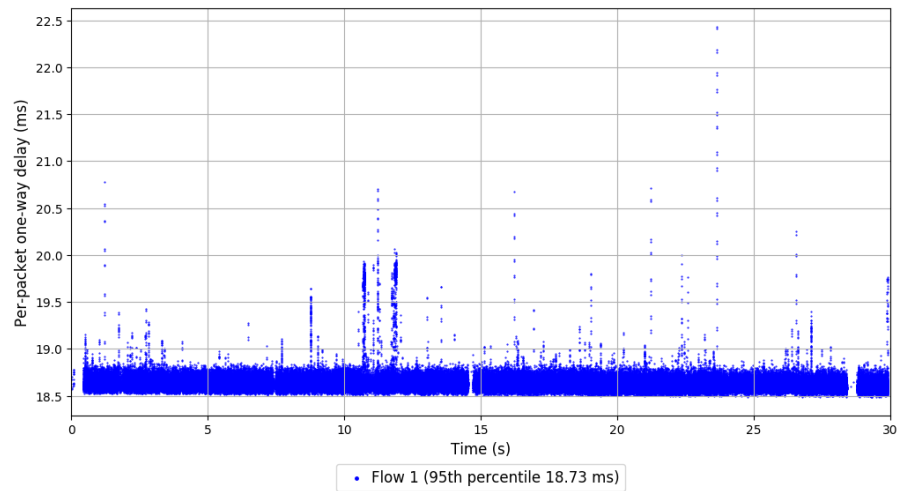
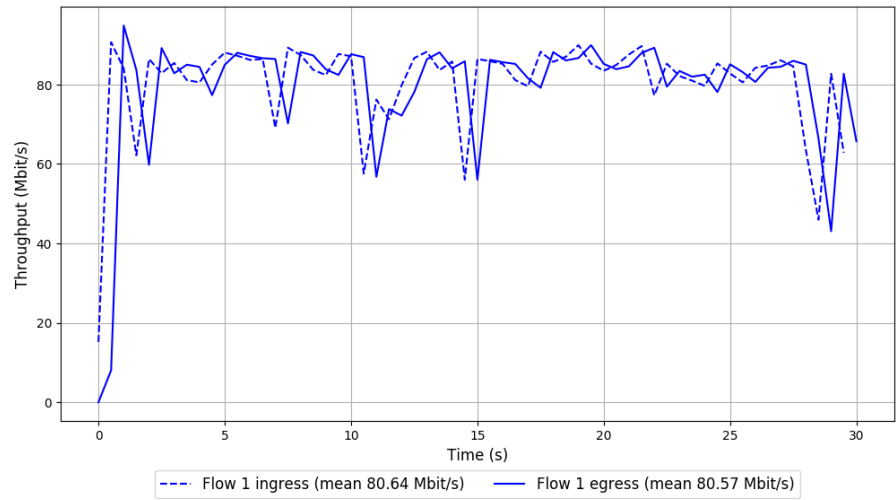
-- Flow 1:

Average throughput: 80.57 Mbit/s

95th percentile per-packet one-way delay: 18.733 ms

Loss rate: 0.09%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-07-09 23:14:52

End at: 2018-07-09 23:15:22

Local clock offset: 0.907 ms

Remote clock offset: 2.747 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 18.754 ms

Loss rate: 0.00%

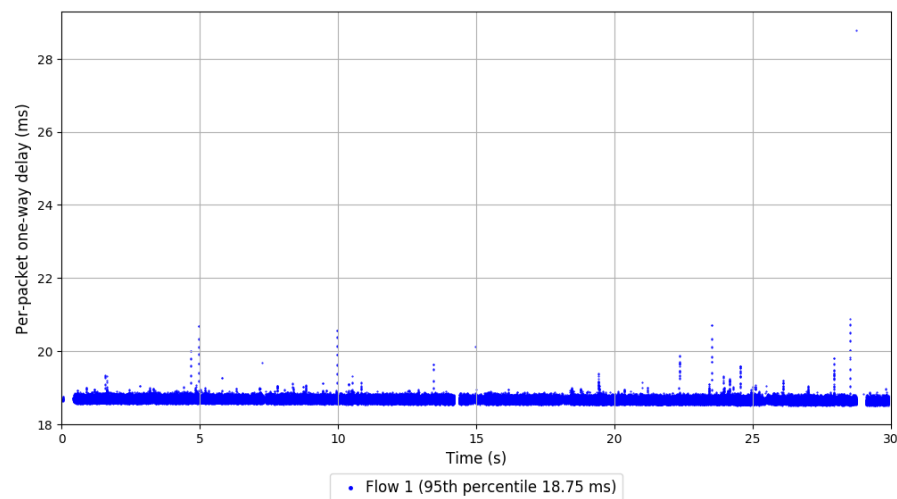
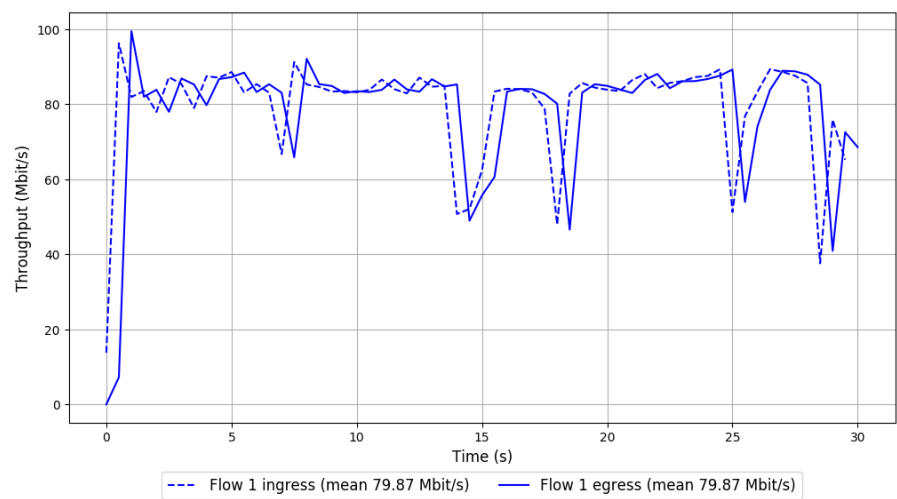
-- Flow 1:

Average throughput: 79.87 Mbit/s

95th percentile per-packet one-way delay: 18.754 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-07-09 23:40:20

End at: 2018-07-09 23:40:50

Local clock offset: 0.838 ms

Remote clock offset: 4.61 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 19.000 ms

Loss rate: 0.01%

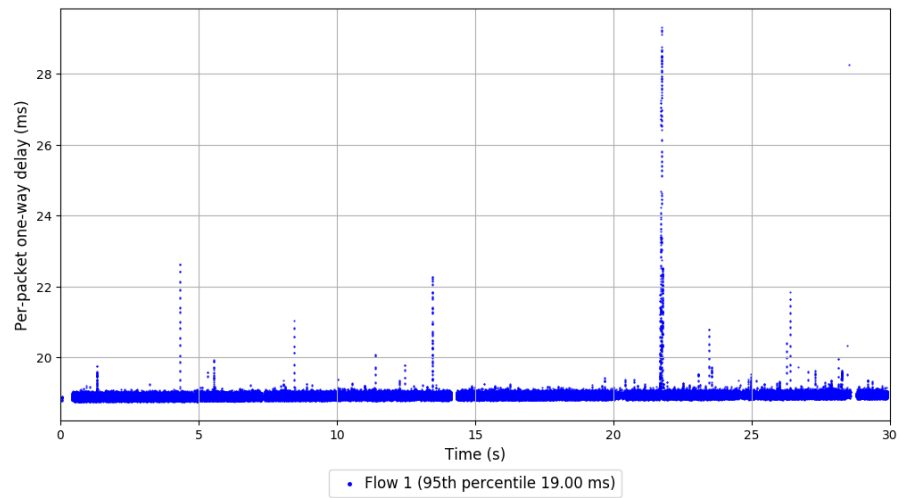
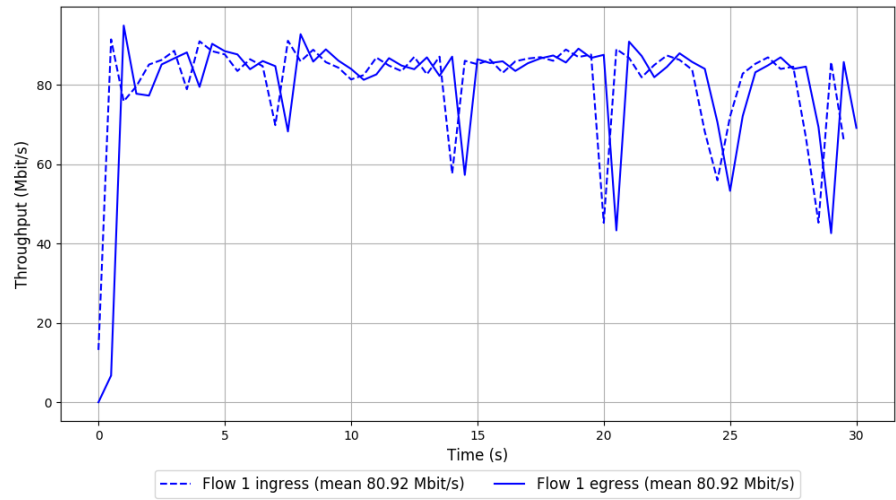
-- Flow 1:

Average throughput: 80.92 Mbit/s

95th percentile per-packet one-way delay: 19.000 ms

Loss rate: 0.01%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-10 00:05:42

End at: 2018-07-10 00:06:12

Local clock offset: 0.421 ms

Remote clock offset: 3.702 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 18.980 ms

Loss rate: 0.07%

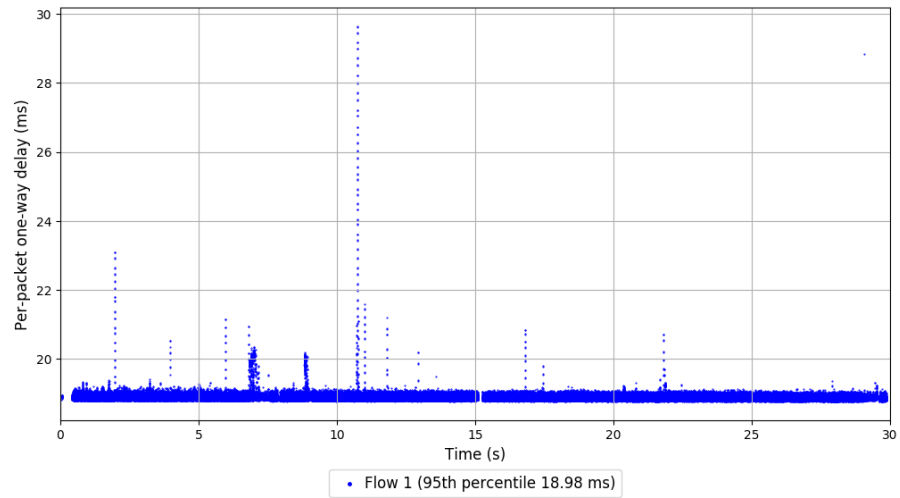
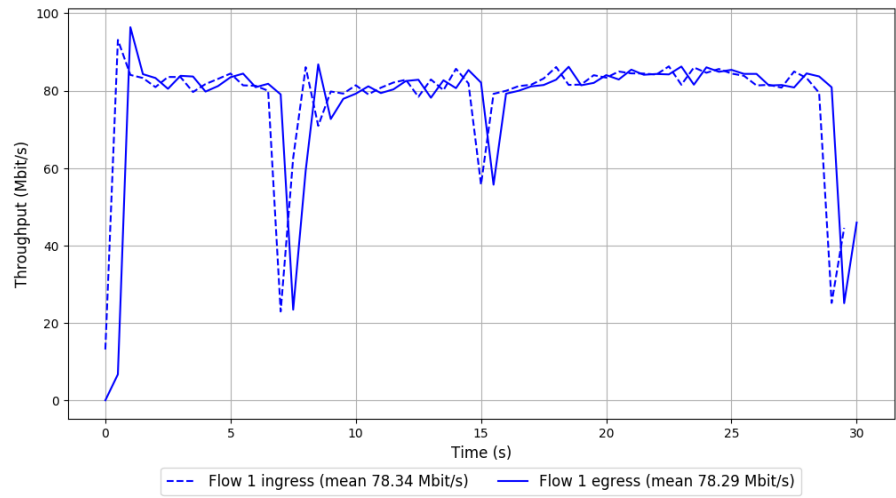
-- Flow 1:

Average throughput: 78.29 Mbit/s

95th percentile per-packet one-way delay: 18.980 ms

Loss rate: 0.07%

Run 10: Report of QUIC Cubic — Data Link

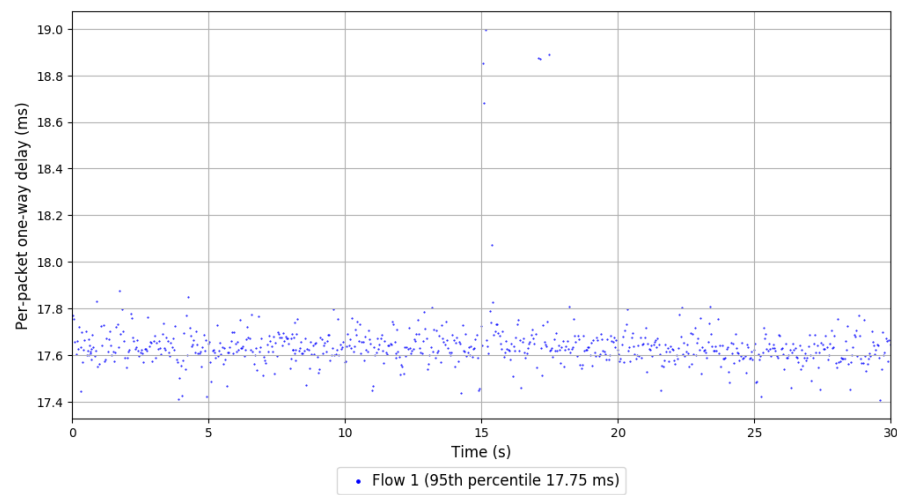
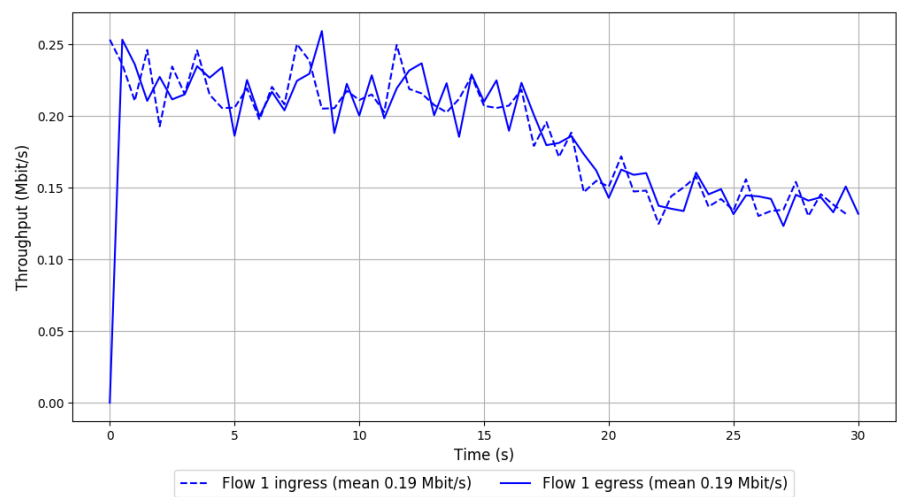


```
Run 1: Statistics of SCReAM

Start at: 2018-07-09 20:00:13
End at: 2018-07-09 20:00:43
Local clock offset: 0.514 ms
Remote clock offset: 2.27 ms

# Below is generated by plot.py at 2018-07-10 01:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 17.752 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 17.752 ms
Loss rate: 0.15%
```

Run 1: Report of SReAM — Data Link

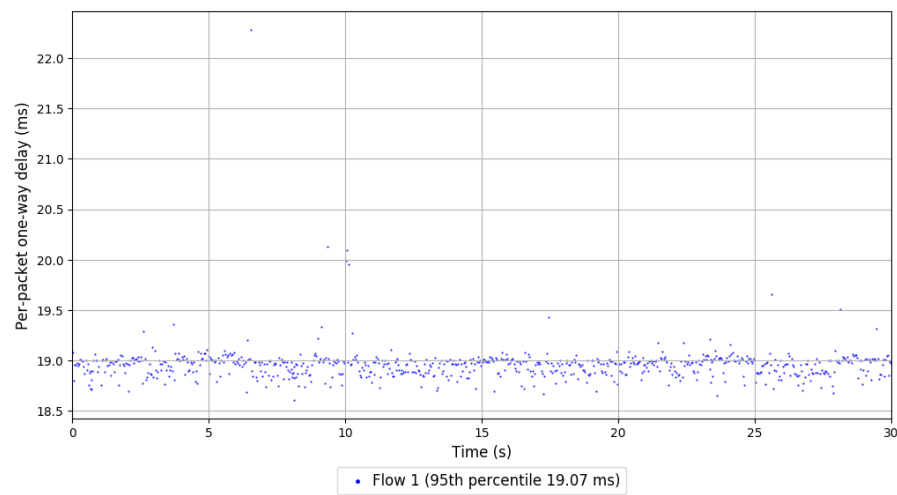
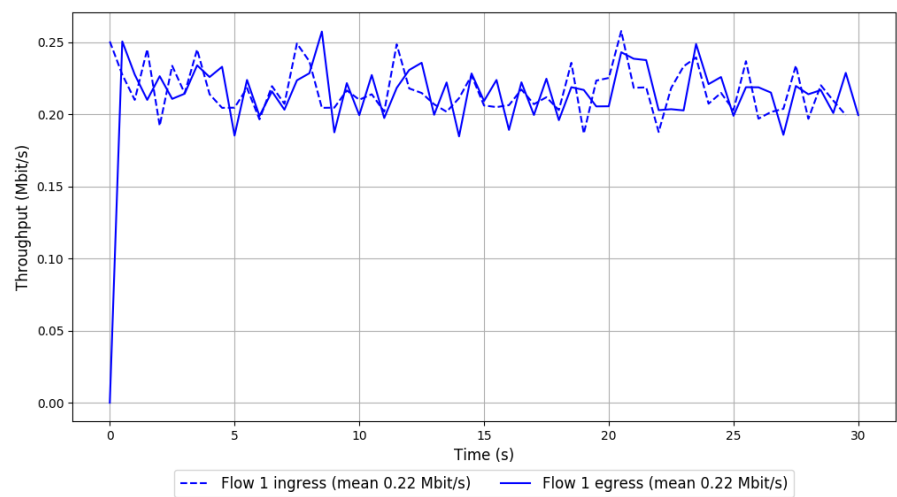


```
Run 2: Statistics of SCReAM

Start at: 2018-07-09 20:25:55
End at: 2018-07-09 20:26:25
Local clock offset: 0.863 ms
Remote clock offset: 2.66 ms

# Below is generated by plot.py at 2018-07-10 01:49:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.071 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.071 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-07-09 20:51:15

End at: 2018-07-09 20:51:45

Local clock offset: 1.068 ms

Remote clock offset: 2.115 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 19.278 ms

Loss rate: 0.45%

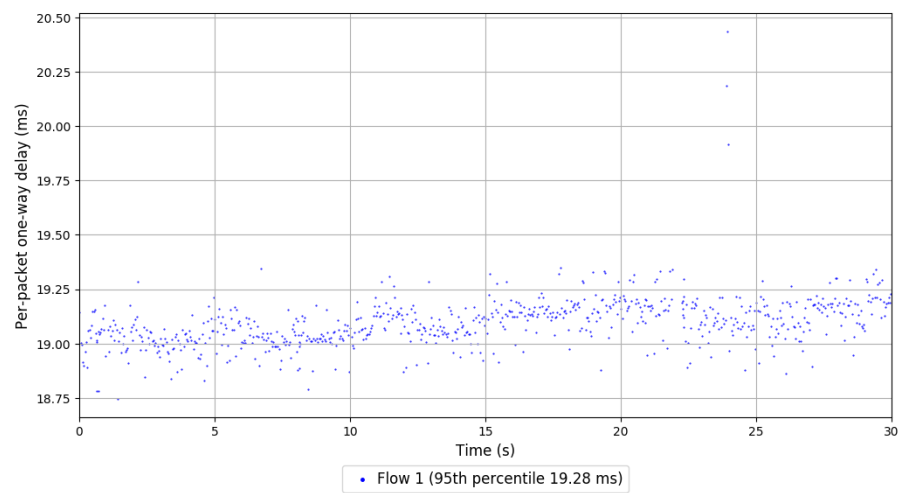
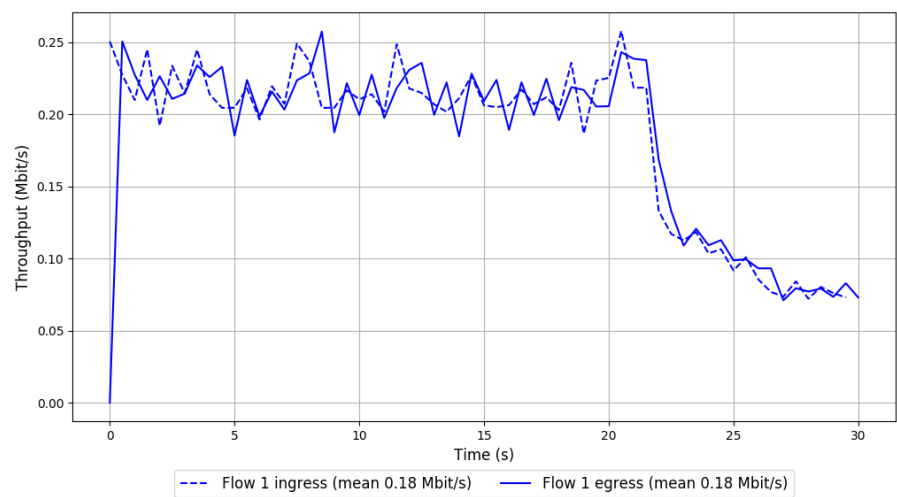
-- Flow 1:

Average throughput: 0.18 Mbit/s

95th percentile per-packet one-way delay: 19.278 ms

Loss rate: 0.45%

Run 3: Report of SReAM — Data Link

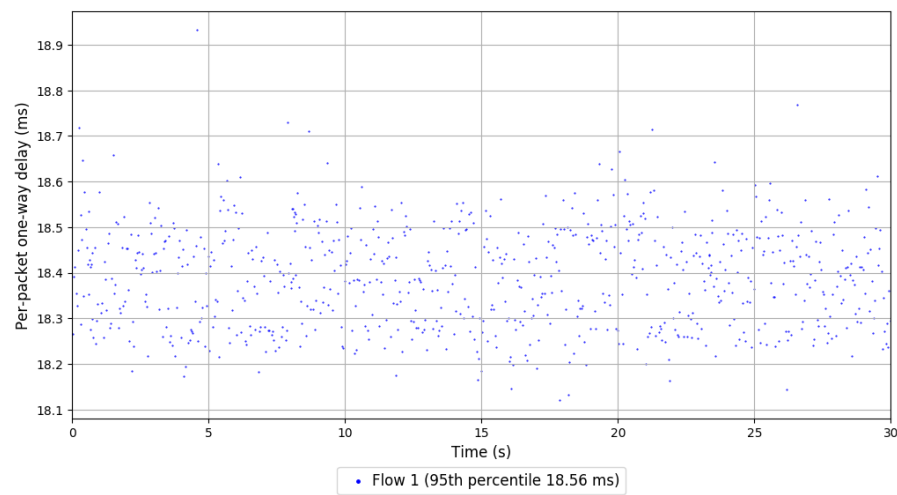
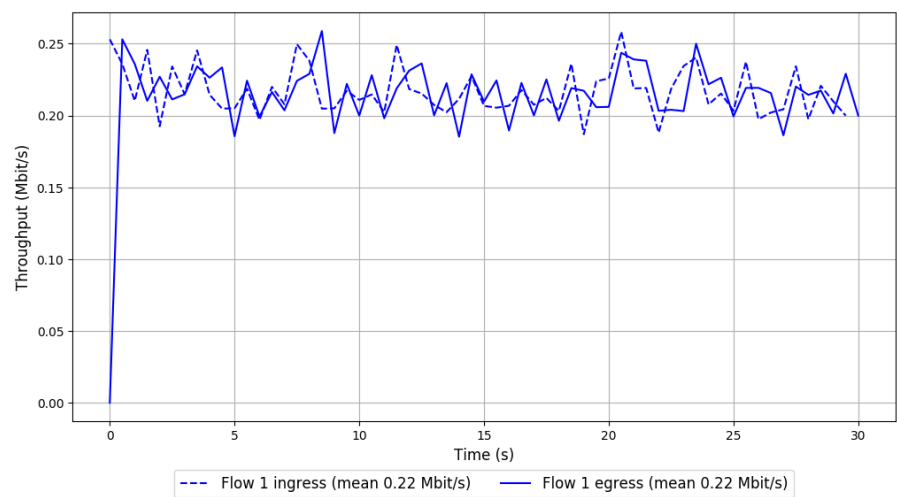


Run 4: Statistics of SCReAM

Start at: 2018-07-09 21:16:33
End at: 2018-07-09 21:17:03
Local clock offset: 0.889 ms
Remote clock offset: -1.255 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.559 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

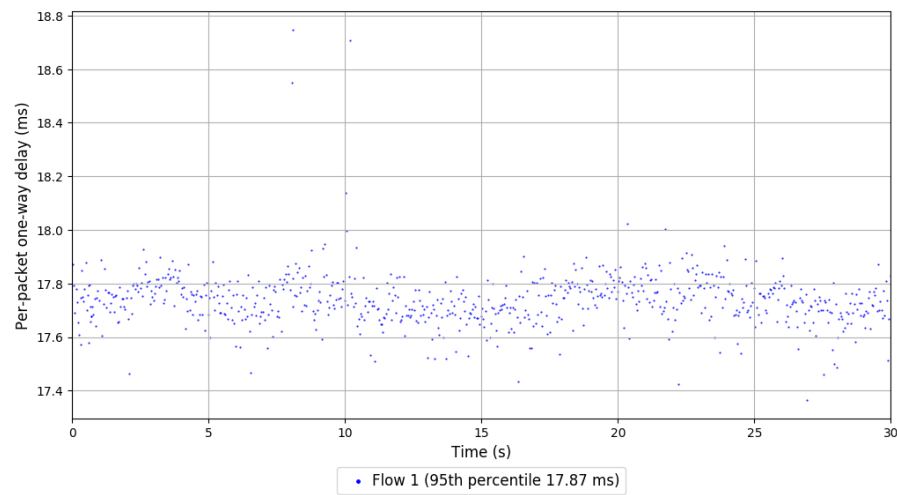
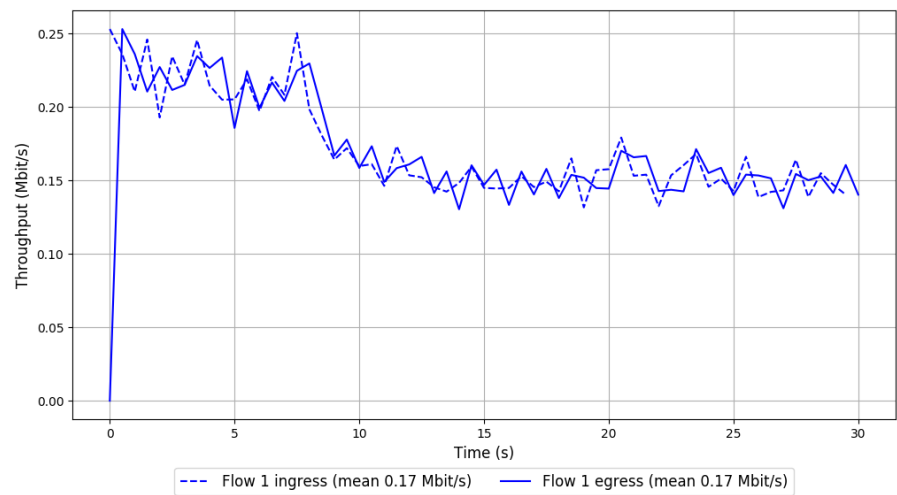


Run 5: Statistics of SCReAM

Start at: 2018-07-09 21:42:14
End at: 2018-07-09 21:42:44
Local clock offset: 1.166 ms
Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 17.866 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 17.866 ms
Loss rate: 0.20%

Run 5: Report of SReAM — Data Link

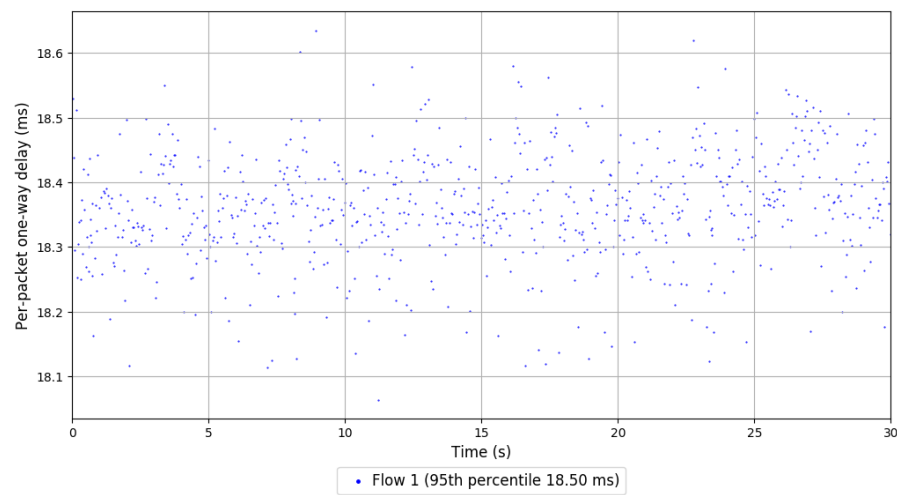
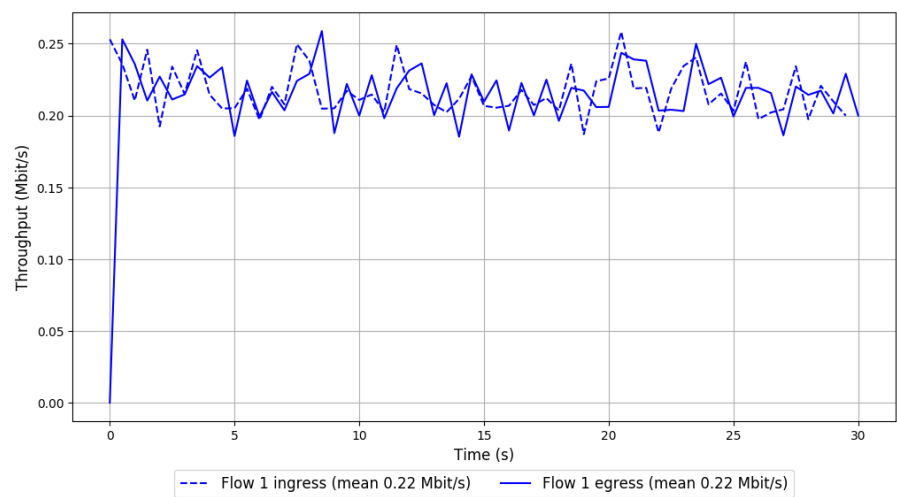


Run 6: Statistics of SCReAM

Start at: 2018-07-09 22:07:42
End at: 2018-07-09 22:08:12
Local clock offset: 1.34 ms
Remote clock offset: -2.016 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.497 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

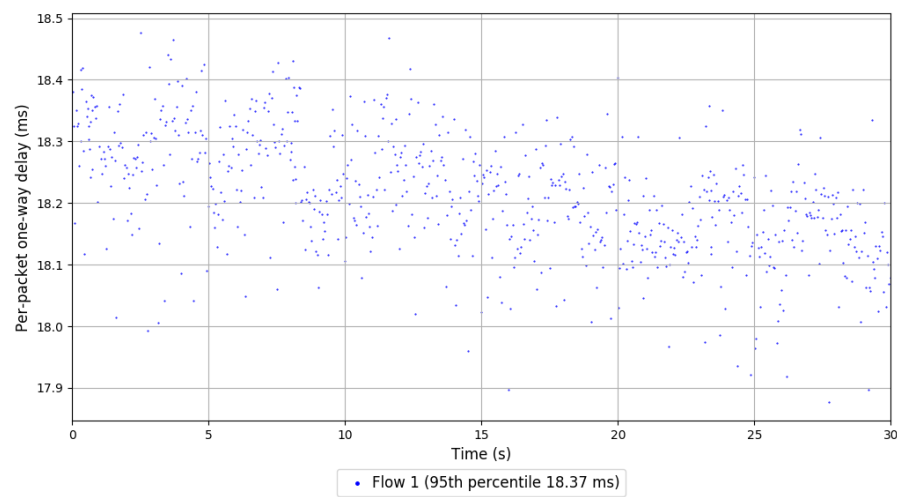
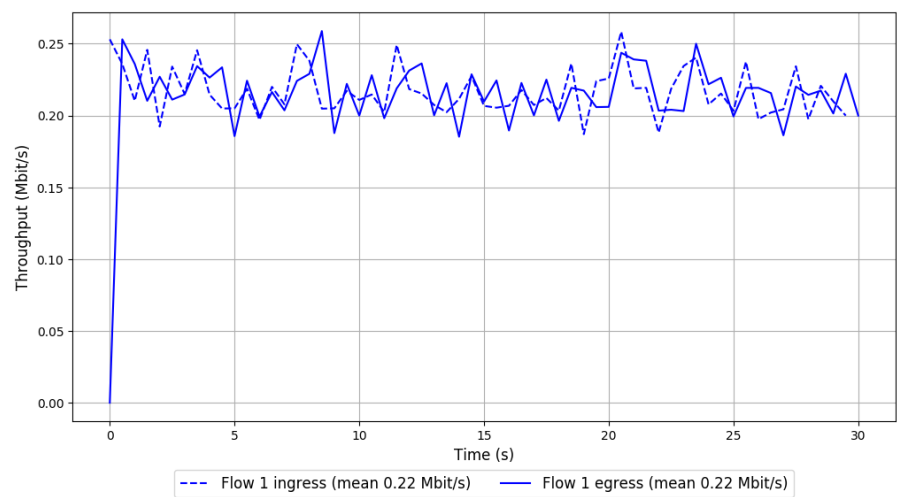


Run 7: Statistics of SCReAM

Start at: 2018-07-09 22:33:13
End at: 2018-07-09 22:33:43
Local clock offset: 0.839 ms
Remote clock offset: -2.503 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.369 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.369 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-07-09 22:58:49

End at: 2018-07-09 22:59:19

Local clock offset: 0.76 ms

Remote clock offset: 0.834 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.325 ms

Loss rate: 0.00%

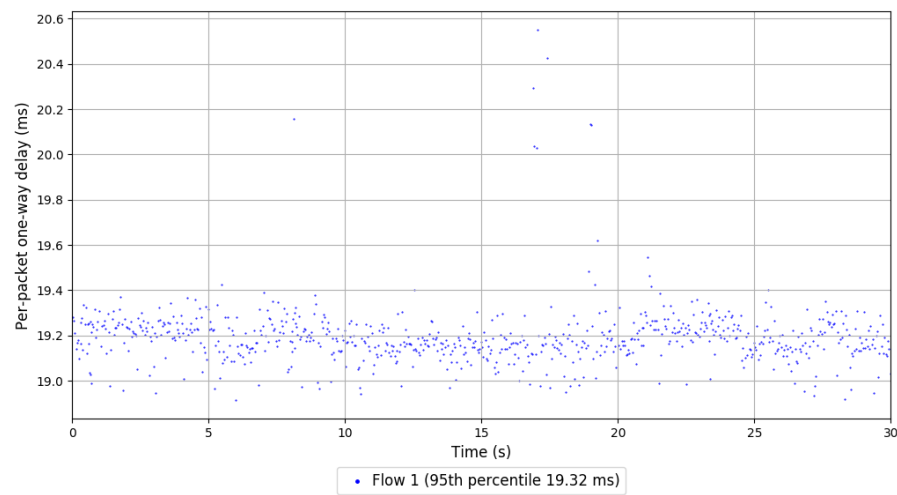
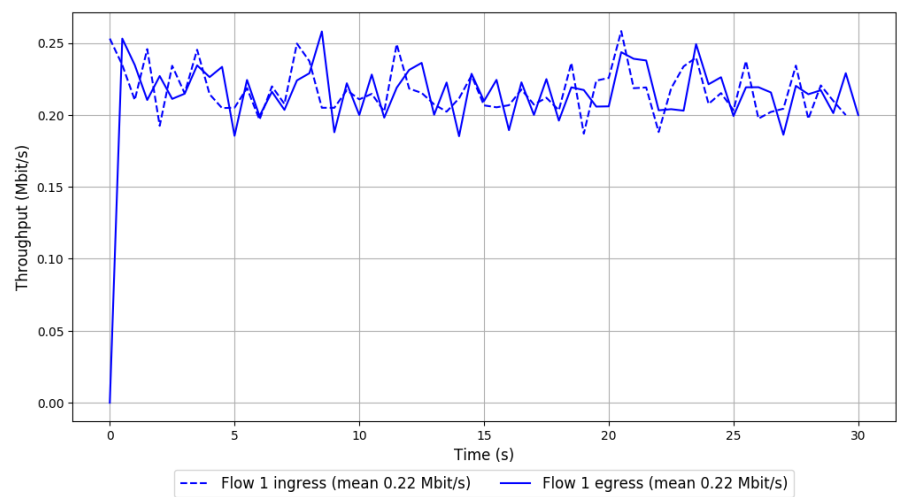
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.325 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-07-09 23:23:51

End at: 2018-07-09 23:24:21

Local clock offset: 1.039 ms

Remote clock offset: 3.708 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.444 ms

Loss rate: 0.00%

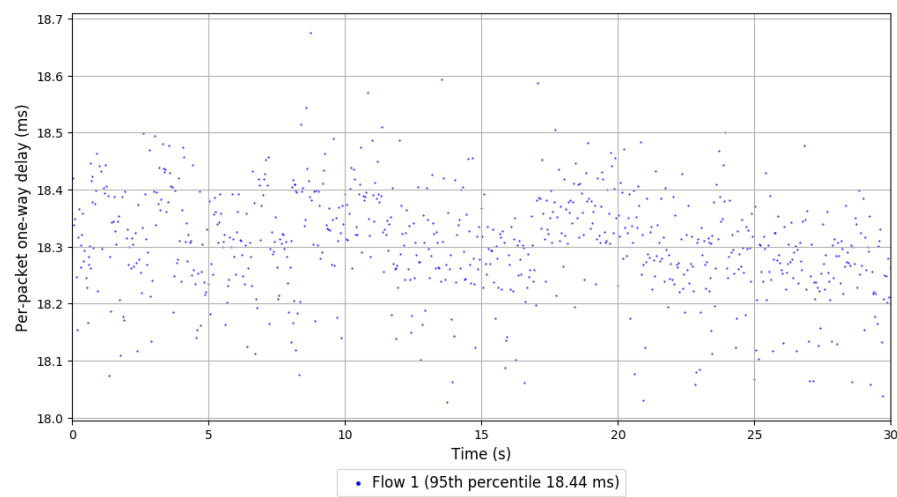
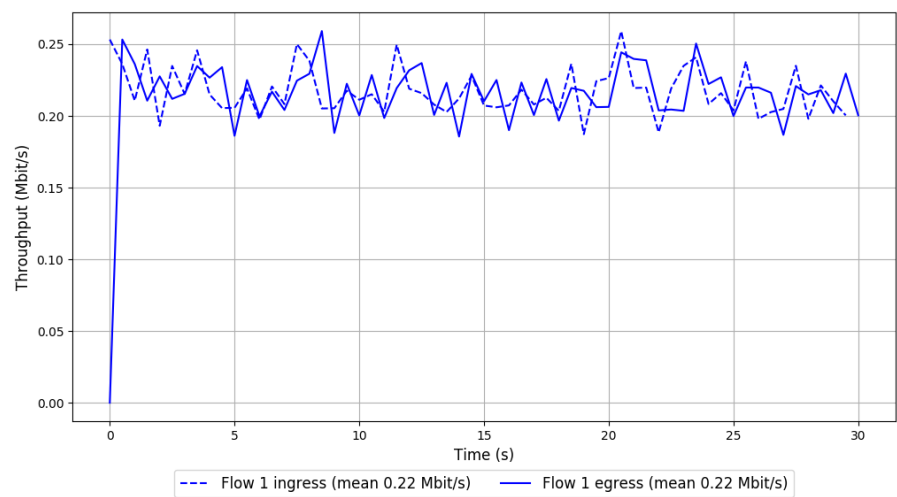
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.444 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-07-09 23:49:18

End at: 2018-07-09 23:49:48

Local clock offset: 0.743 ms

Remote clock offset: 3.782 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

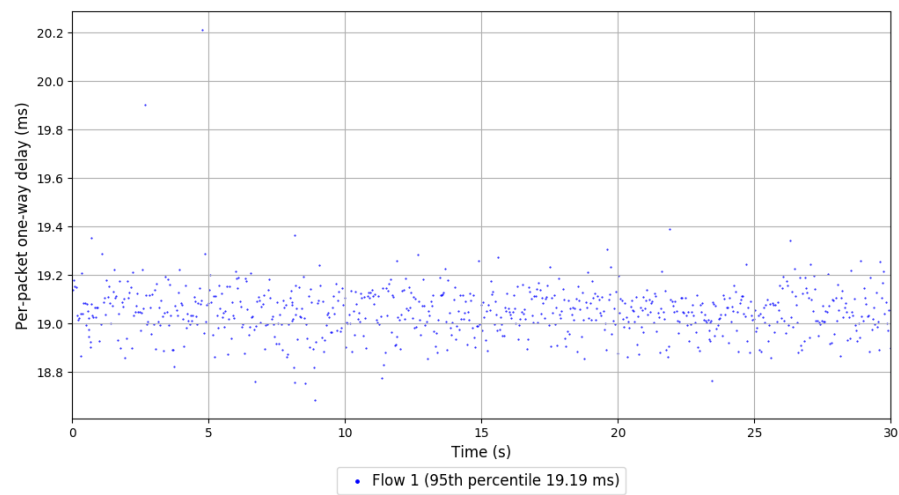
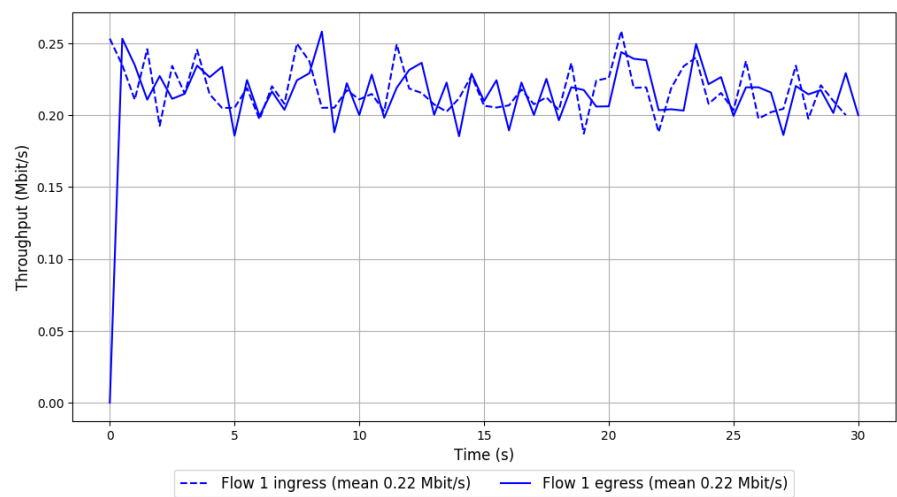
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.192 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-07-09 20:04:29

End at: 2018-07-09 20:04:59

Local clock offset: 0.562 ms

Remote clock offset: 2.282 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 21.694 ms

Loss rate: 0.00%

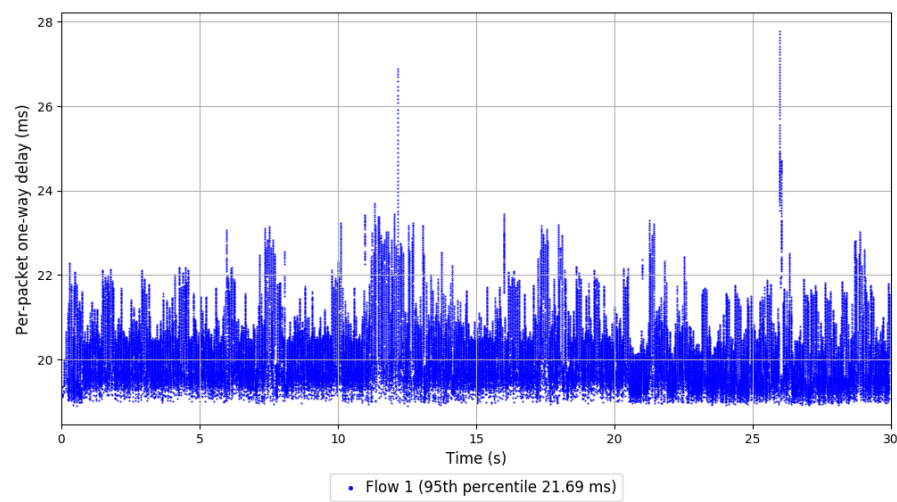
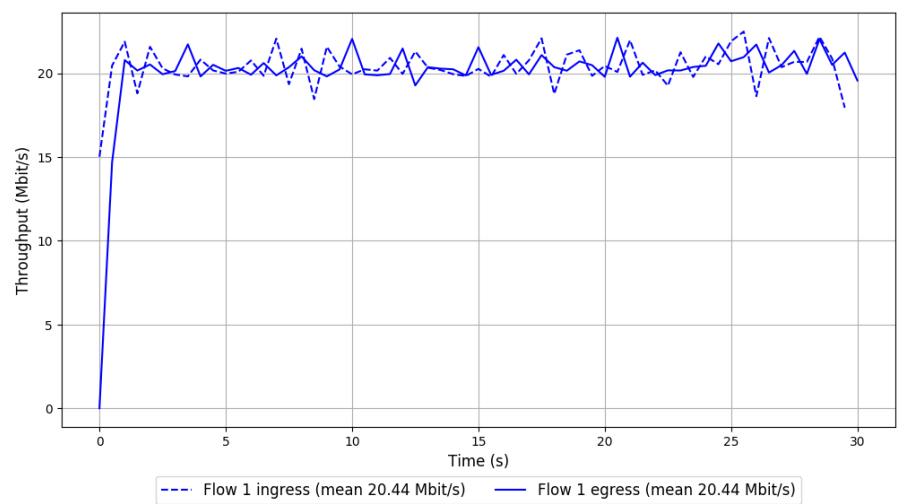
-- Flow 1:

Average throughput: 20.44 Mbit/s

95th percentile per-packet one-way delay: 21.694 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

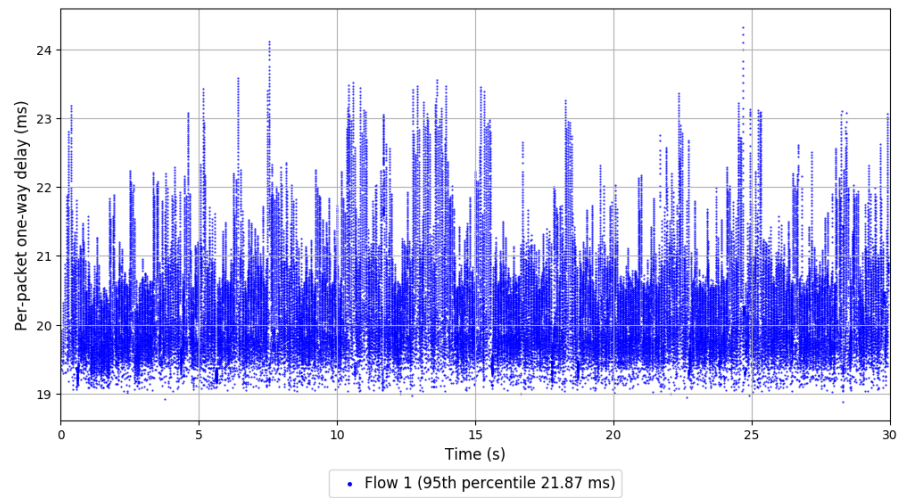
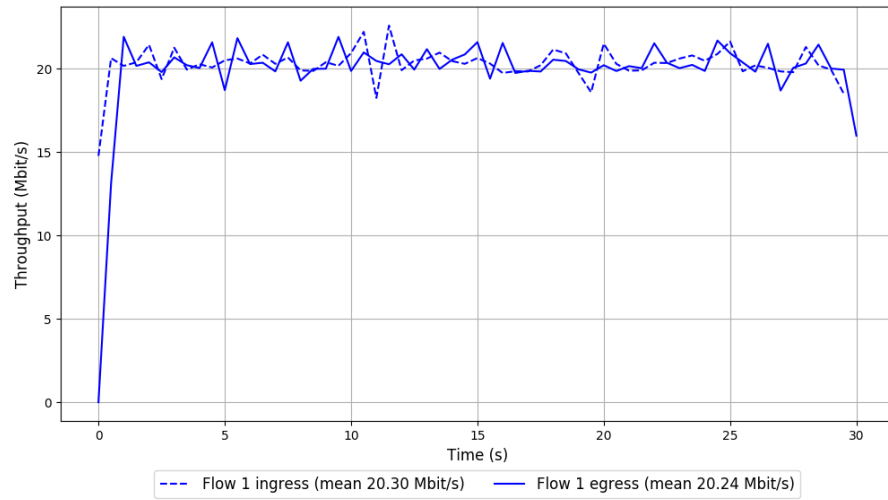


Run 2: Statistics of Sprout

Start at: 2018-07-09 20:30:09
End at: 2018-07-09 20:30:39
Local clock offset: 0.838 ms
Remote clock offset: 2.859 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 21.868 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 20.24 Mbit/s
95th percentile per-packet one-way delay: 21.868 ms
Loss rate: 0.29%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-07-09 20:55:29

End at: 2018-07-09 20:56:00

Local clock offset: 1.147 ms

Remote clock offset: 1.009 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.87 Mbit/s

95th percentile per-packet one-way delay: 20.598 ms

Loss rate: 0.02%

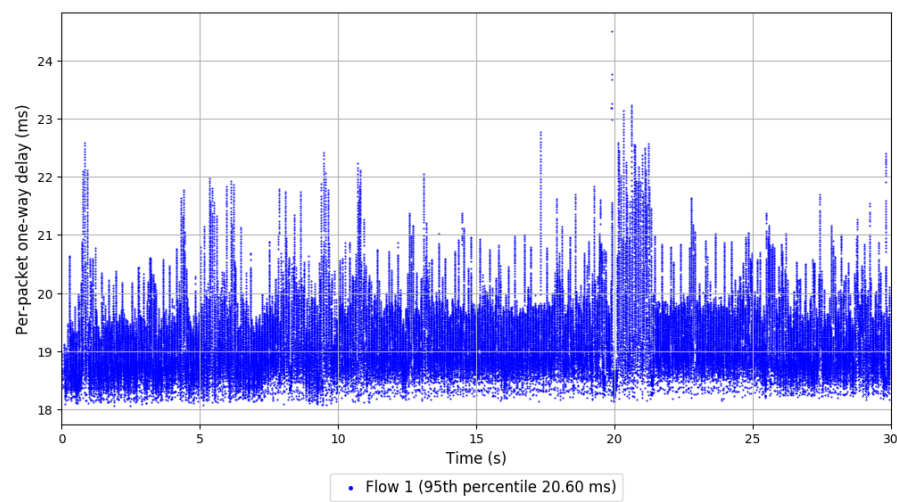
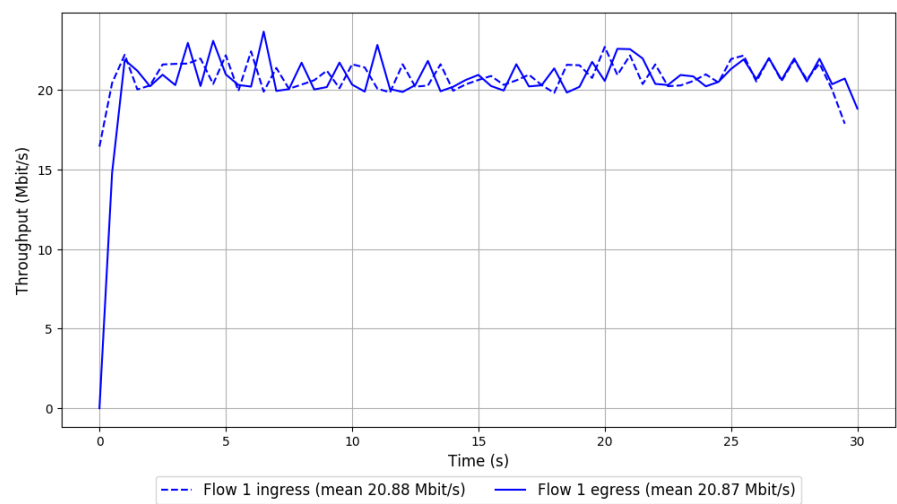
-- Flow 1:

Average throughput: 20.87 Mbit/s

95th percentile per-packet one-way delay: 20.598 ms

Loss rate: 0.02%

Run 3: Report of Sprout — Data Link

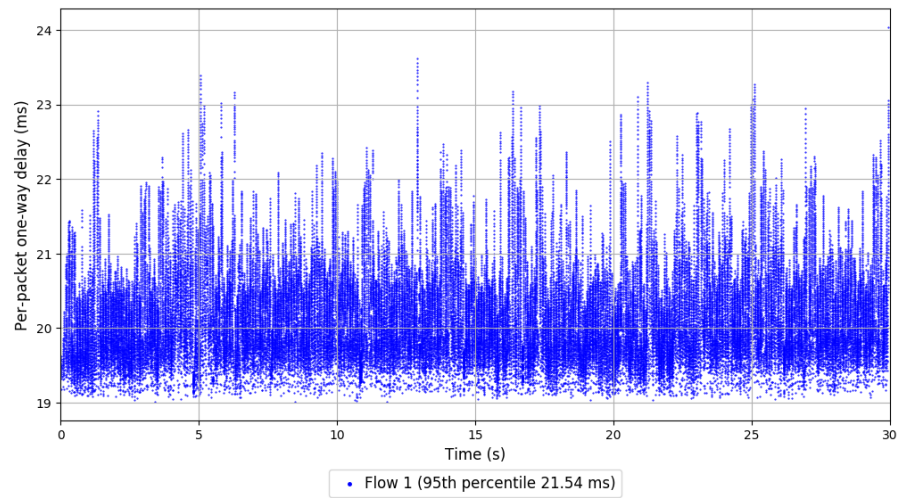
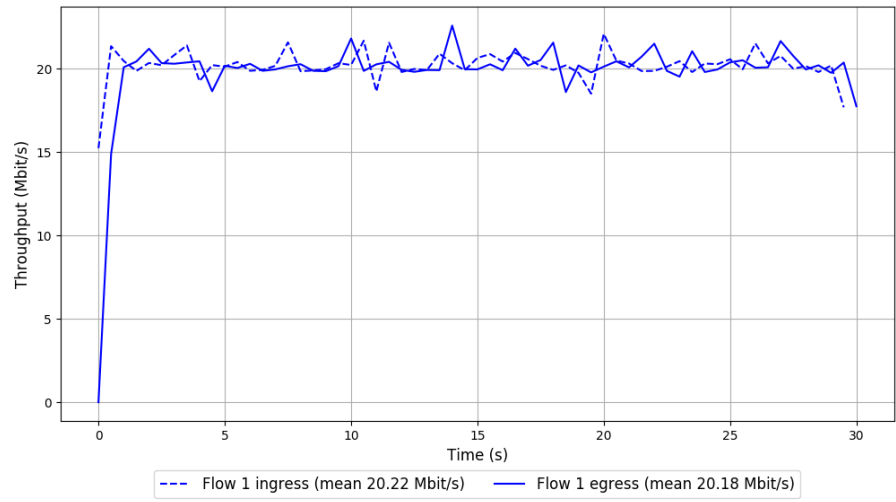


Run 4: Statistics of Sprout

Start at: 2018-07-09 21:20:49
End at: 2018-07-09 21:21:19
Local clock offset: 0.901 ms
Remote clock offset: -1.437 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 21.544 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 20.18 Mbit/s
95th percentile per-packet one-way delay: 21.544 ms
Loss rate: 0.19%

Run 4: Report of Sprout — Data Link

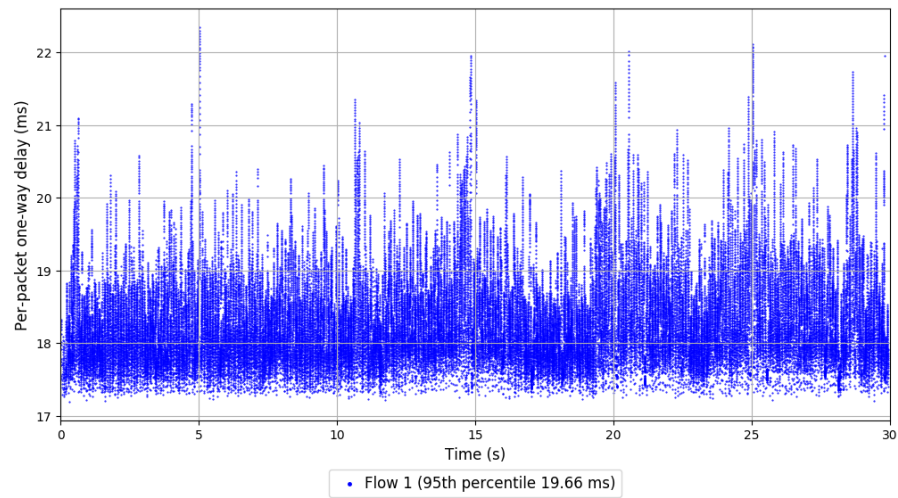
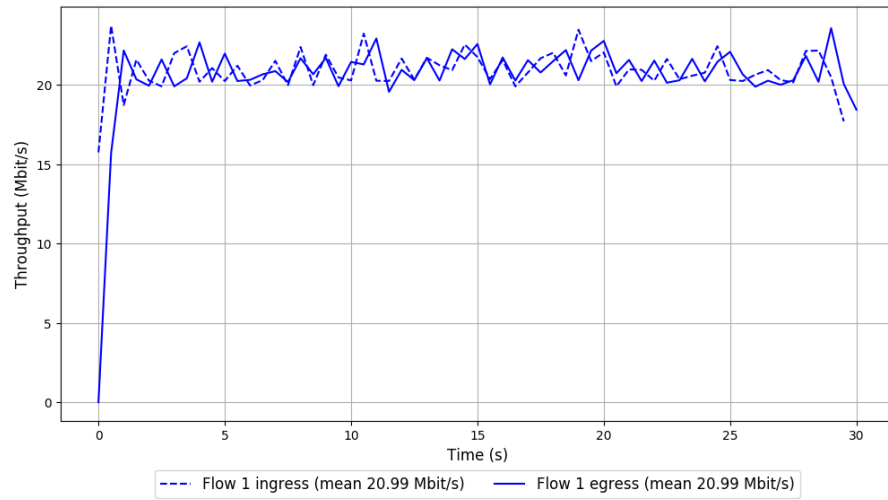


Run 5: Statistics of Sprout

Start at: 2018-07-09 21:46:31
End at: 2018-07-09 21:47:01
Local clock offset: 1.332 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 19.658 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 20.99 Mbit/s
95th percentile per-packet one-way delay: 19.658 ms
Loss rate: 0.02%

Run 5: Report of Sprout — Data Link

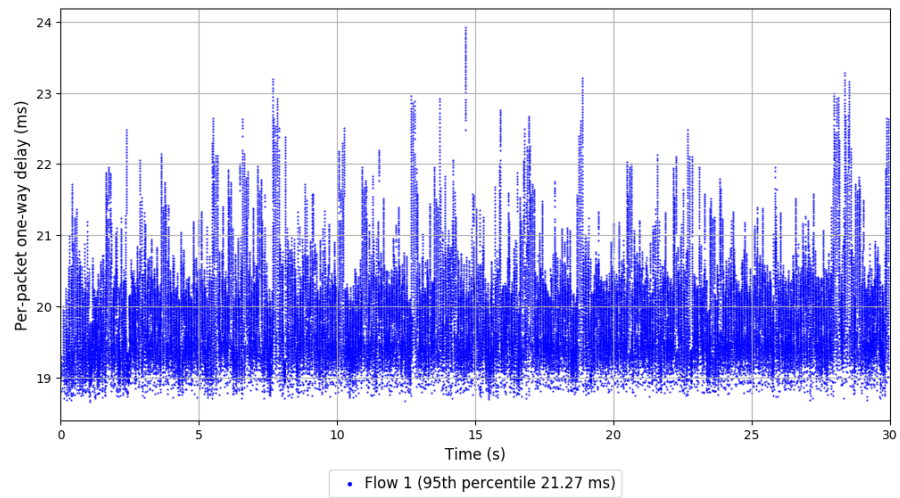
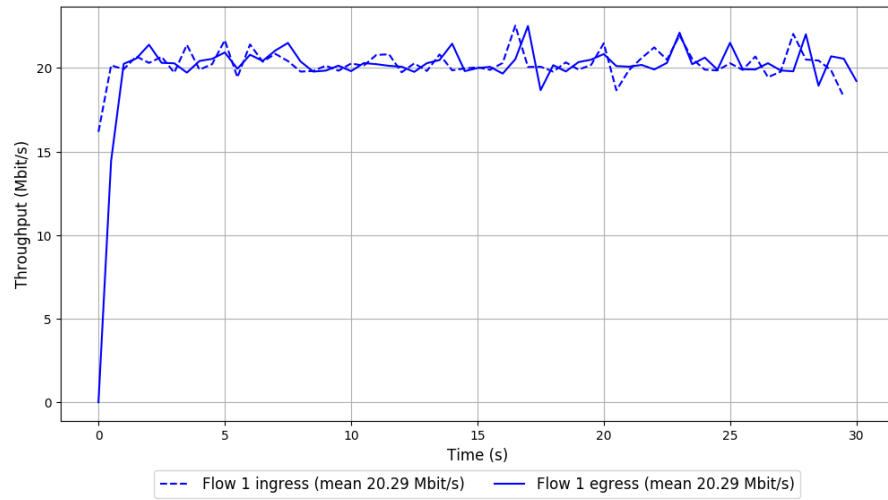


Run 6: Statistics of Sprout

Start at: 2018-07-09 22:11:57
End at: 2018-07-09 22:12:27
Local clock offset: 1.249 ms
Remote clock offset: -2.396 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.29 Mbit/s
95th percentile per-packet one-way delay: 21.269 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.29 Mbit/s
95th percentile per-packet one-way delay: 21.269 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

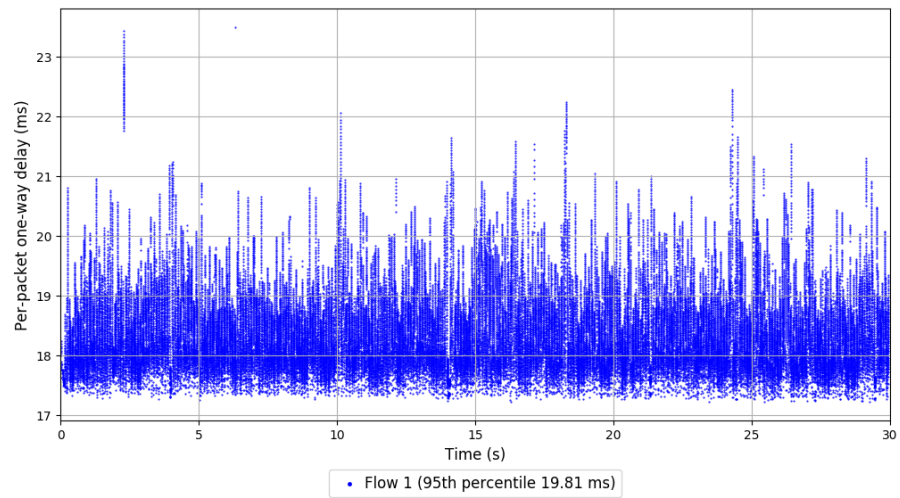
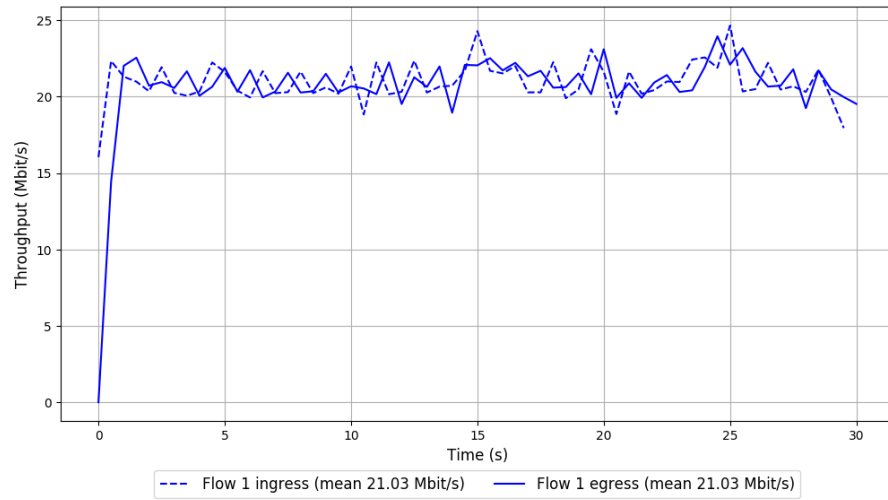


Run 7: Statistics of Sprout

Start at: 2018-07-09 22:37:28
End at: 2018-07-09 22:37:58
Local clock offset: 0.673 ms
Remote clock offset: -1.381 ms

Below is generated by plot.py at 2018-07-10 01:49:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 19.812 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.03 Mbit/s
95th percentile per-packet one-way delay: 19.812 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-07-09 23:03:05

End at: 2018-07-09 23:03:35

Local clock offset: 0.68 ms

Remote clock offset: 1.063 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 21.957 ms

Loss rate: 0.03%

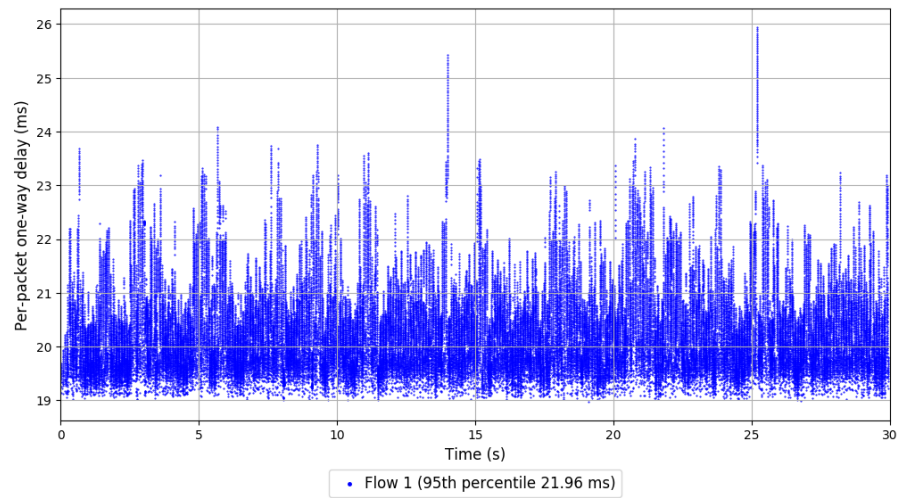
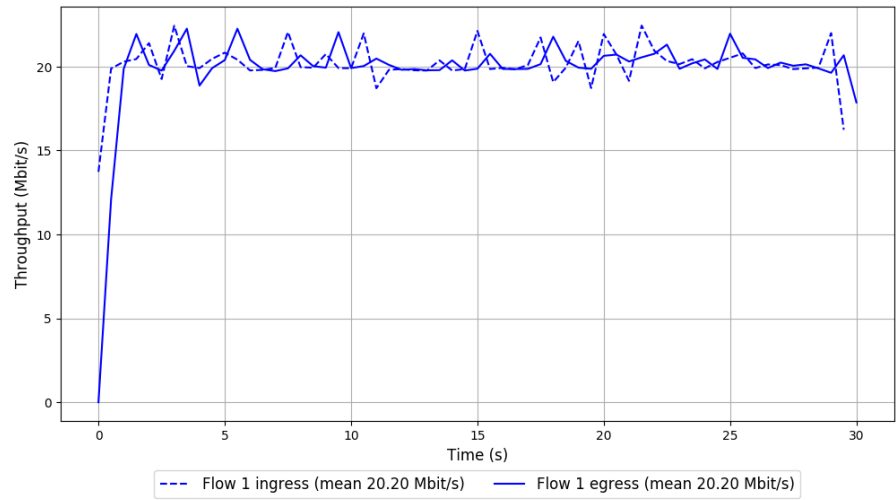
-- Flow 1:

Average throughput: 20.20 Mbit/s

95th percentile per-packet one-way delay: 21.957 ms

Loss rate: 0.03%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-07-09 23:28:10

End at: 2018-07-09 23:28:40

Local clock offset: 0.966 ms

Remote clock offset: 4.009 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 21.624 ms

Loss rate: 0.17%

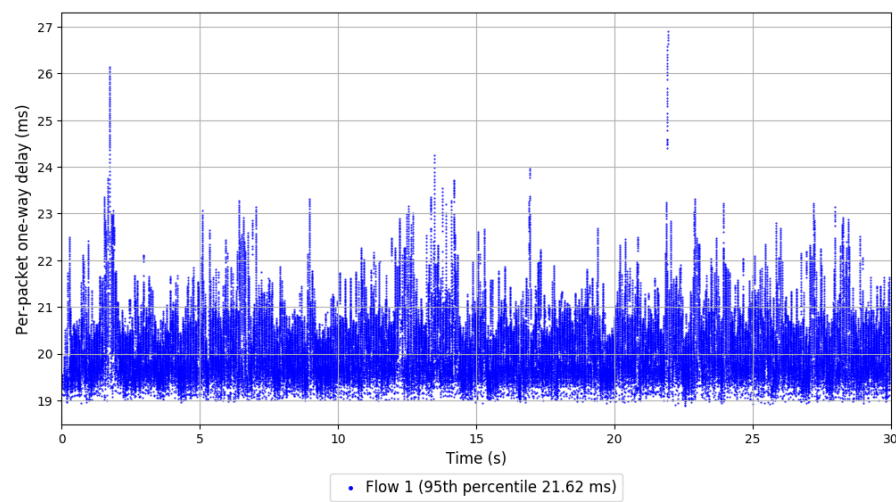
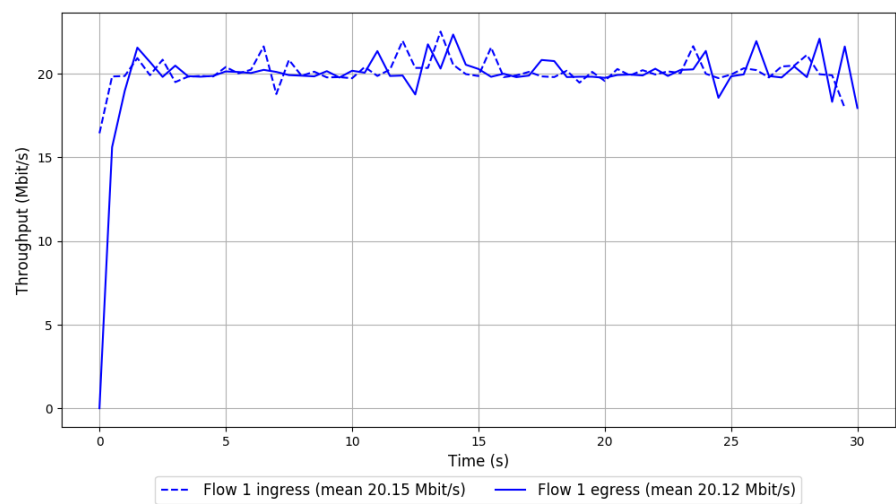
-- Flow 1:

Average throughput: 20.12 Mbit/s

95th percentile per-packet one-way delay: 21.624 ms

Loss rate: 0.17%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-07-09 23:53:33

End at: 2018-07-09 23:54:03

Local clock offset: 0.561 ms

Remote clock offset: 3.669 ms

Below is generated by plot.py at 2018-07-10 01:49:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.10 Mbit/s

95th percentile per-packet one-way delay: 21.640 ms

Loss rate: 0.18%

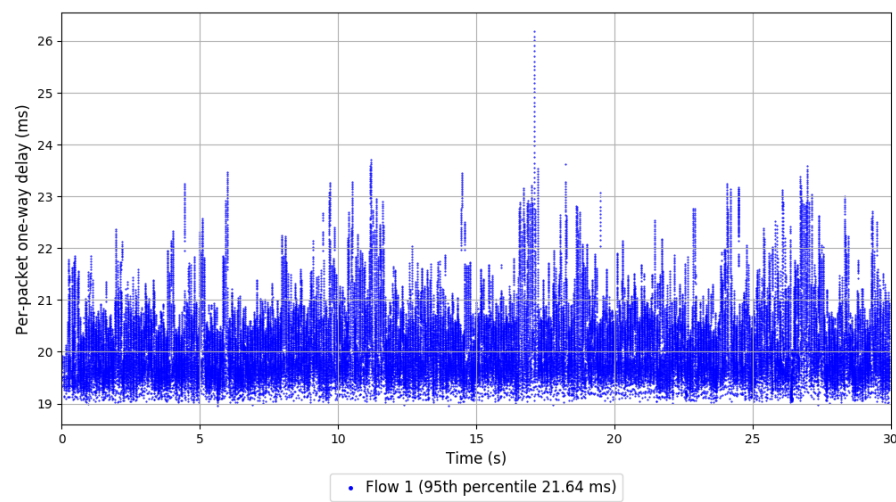
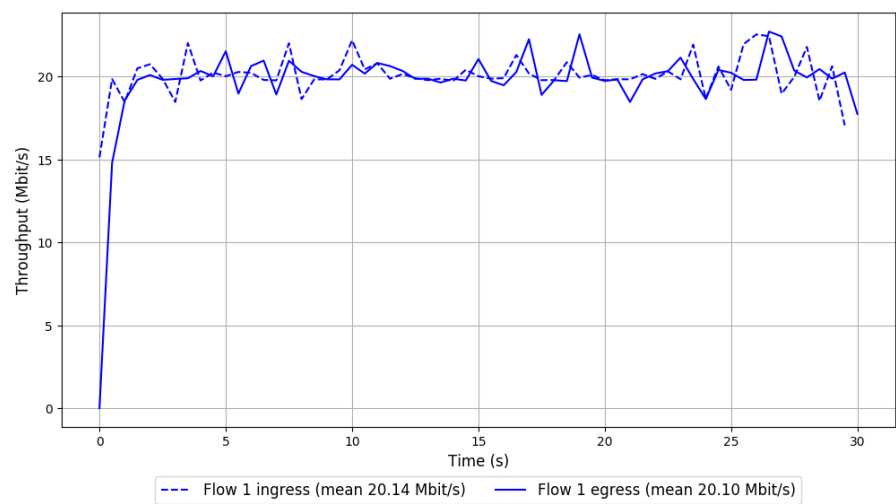
-- Flow 1:

Average throughput: 20.10 Mbit/s

95th percentile per-packet one-way delay: 21.640 ms

Loss rate: 0.18%

Run 10: Report of Sprout — Data Link

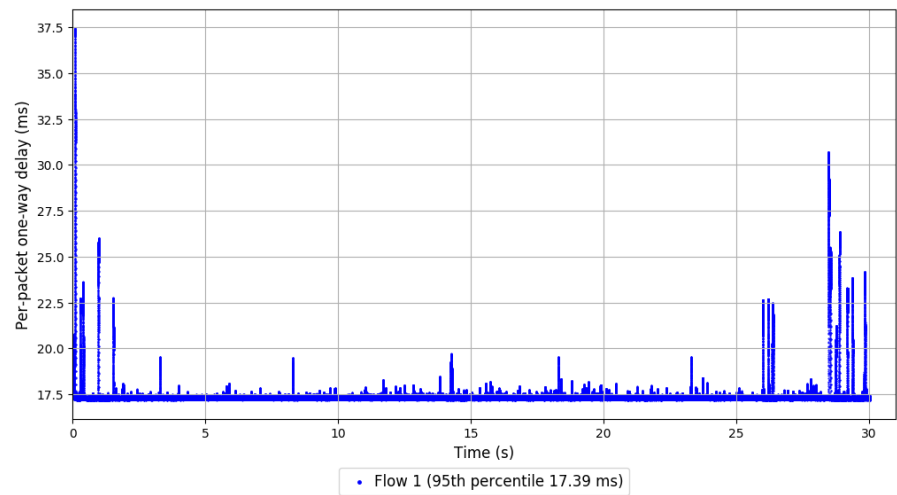
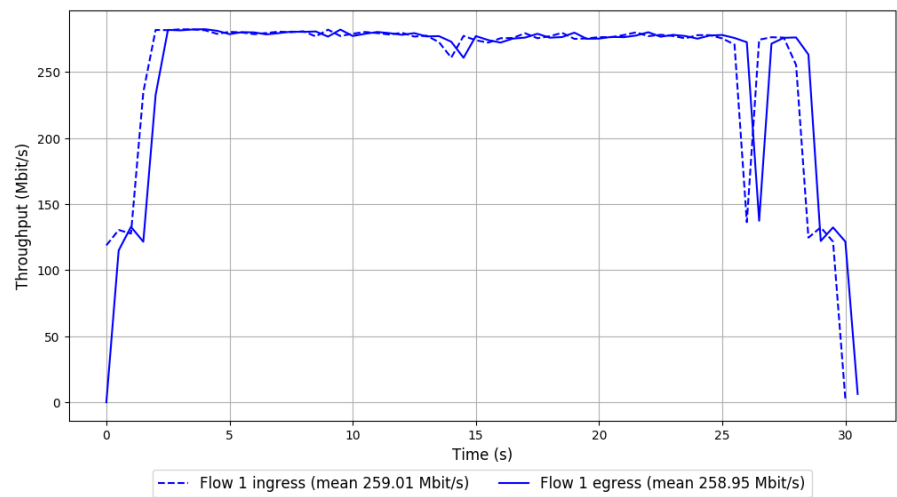


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-09 20:13:36
End at: 2018-07-09 20:14:06
Local clock offset: 0.551 ms
Remote clock offset: 2.268 ms

# Below is generated by plot.py at 2018-07-10 01:51:23
# Datalink statistics
-- Total of 1 flow:
Average throughput: 258.95 Mbit/s
95th percentile per-packet one-way delay: 17.392 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 258.95 Mbit/s
95th percentile per-packet one-way delay: 17.392 ms
Loss rate: 0.03%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-09 20:38:59

End at: 2018-07-09 20:39:29

Local clock offset: 0.991 ms

Remote clock offset: 2.951 ms

Below is generated by plot.py at 2018-07-10 01:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.68 Mbit/s

95th percentile per-packet one-way delay: 19.020 ms

Loss rate: 0.00%

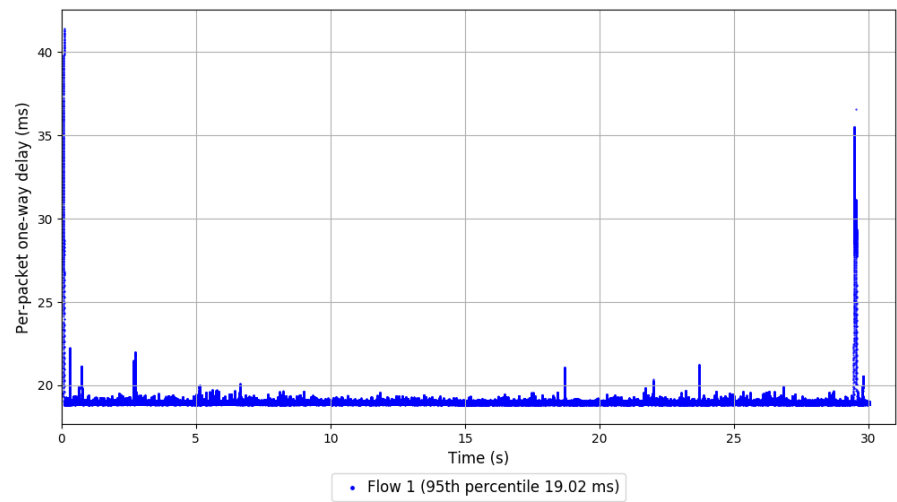
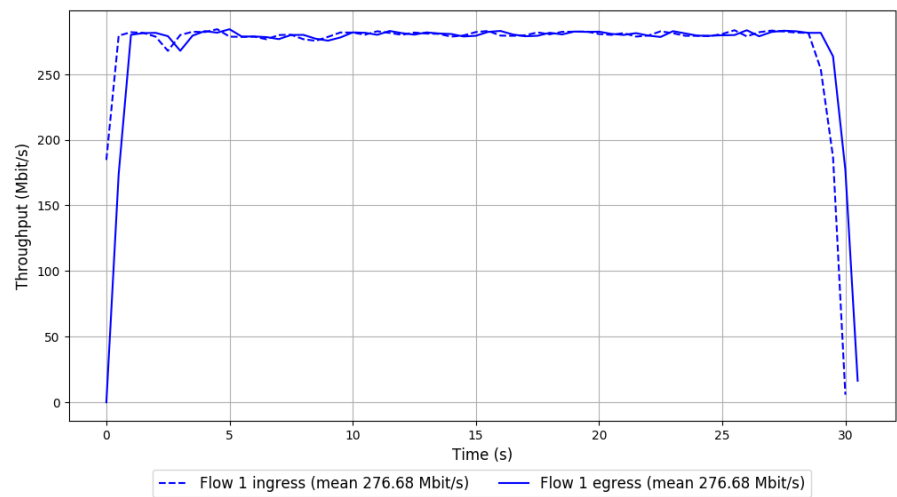
-- Flow 1:

Average throughput: 276.68 Mbit/s

95th percentile per-packet one-way delay: 19.020 ms

Loss rate: 0.00%

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

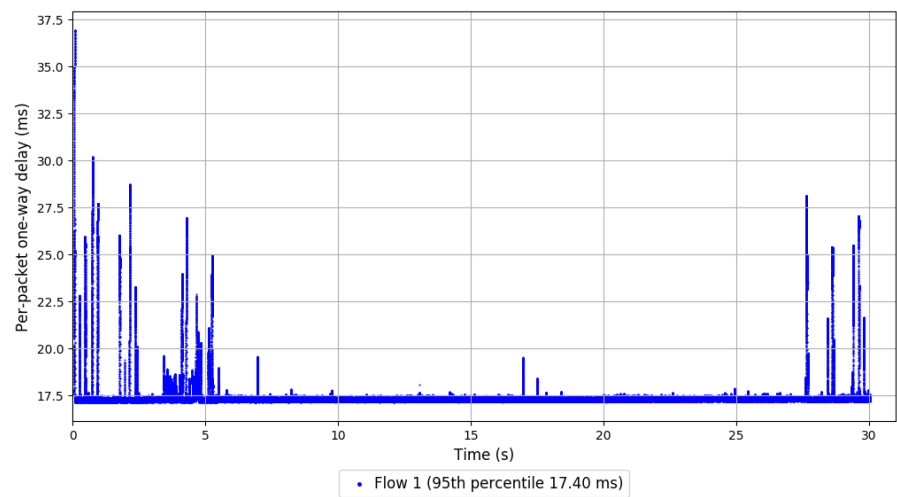
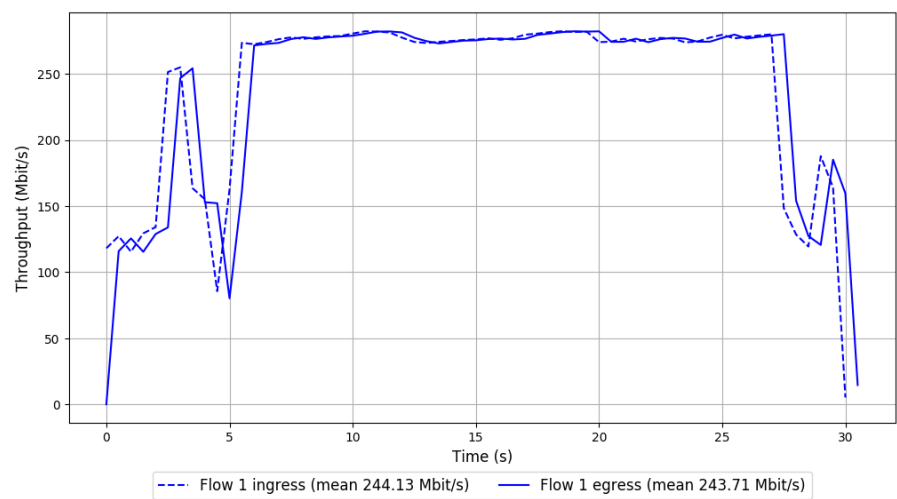


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-09 21:04:21
End at: 2018-07-09 21:04:51
Local clock offset: 1.158 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2018-07-10 01:51:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.71 Mbit/s
95th percentile per-packet one-way delay: 17.396 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 243.71 Mbit/s
95th percentile per-packet one-way delay: 17.396 ms
Loss rate: 0.17%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-07-09 21:30:04

End at: 2018-07-09 21:30:34

Local clock offset: 0.983 ms

Remote clock offset: -0.806 ms

Below is generated by plot.py at 2018-07-10 01:51:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.97 Mbit/s

95th percentile per-packet one-way delay: 18.952 ms

Loss rate: 0.02%

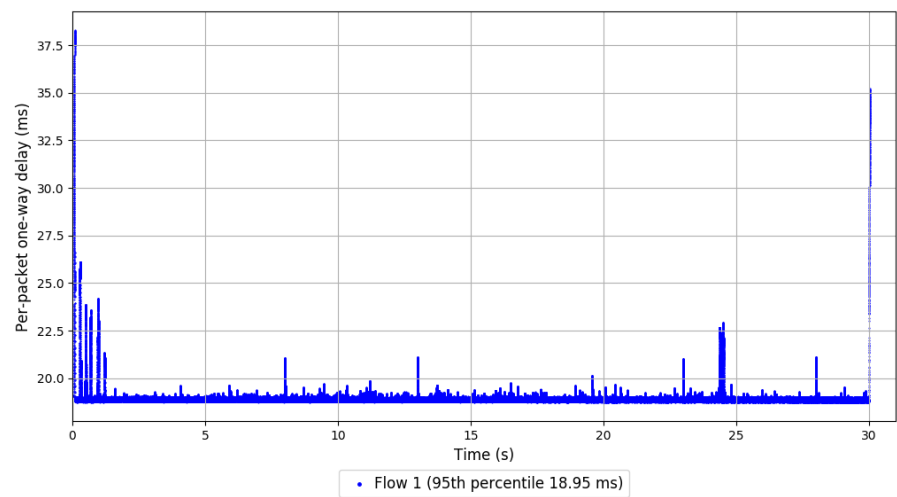
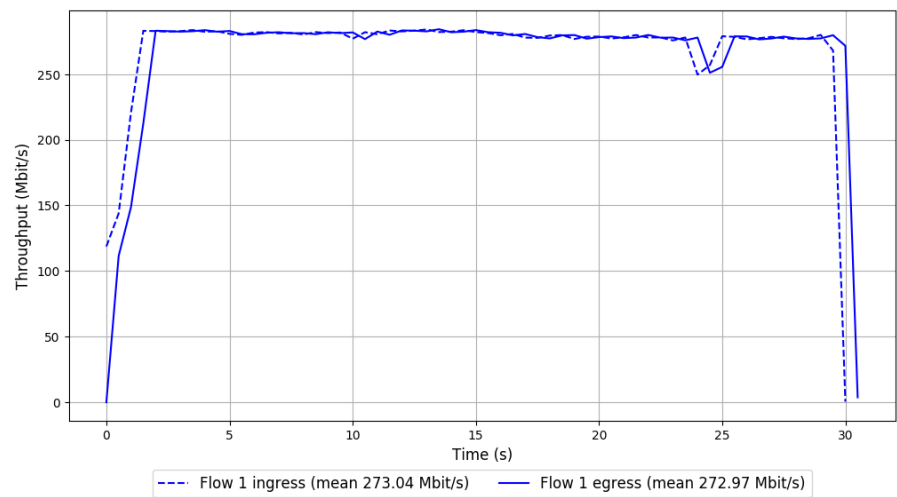
-- Flow 1:

Average throughput: 272.97 Mbit/s

95th percentile per-packet one-way delay: 18.952 ms

Loss rate: 0.02%

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

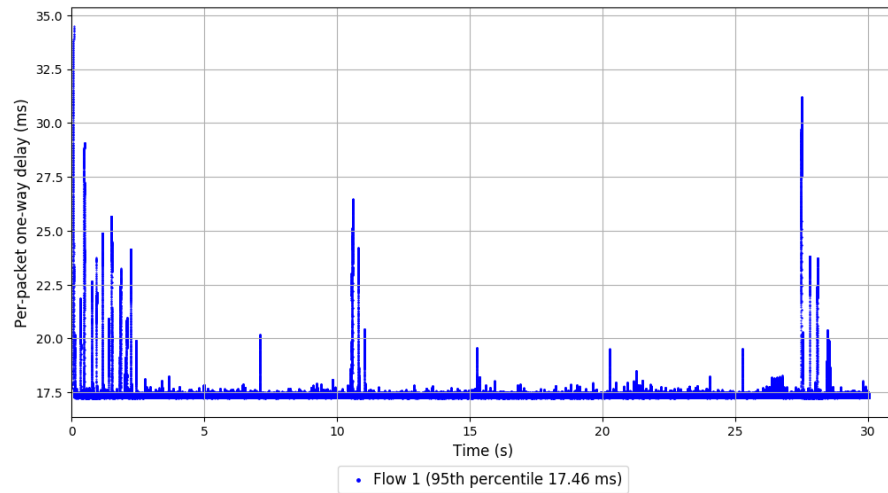
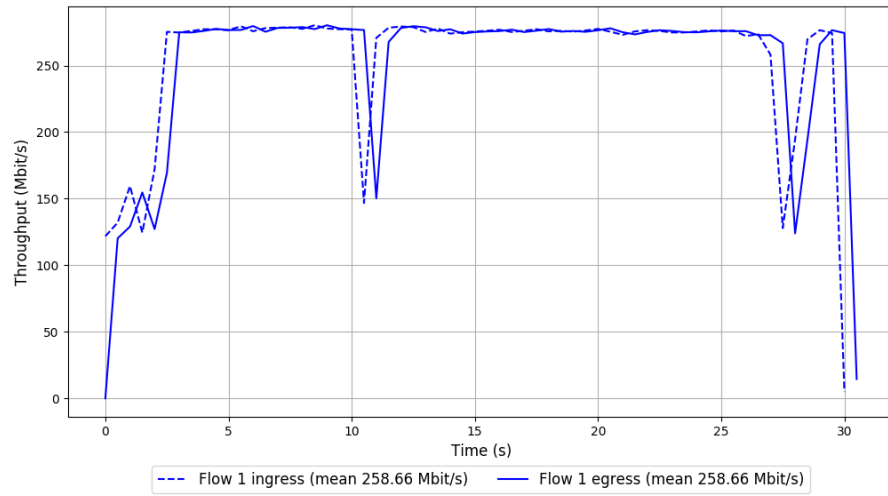


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-09 21:55:31
End at: 2018-07-09 21:56:01
Local clock offset: 1.37 ms
Remote clock offset: -0.581 ms

Below is generated by plot.py at 2018-07-10 01:54:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 258.66 Mbit/s
95th percentile per-packet one-way delay: 17.458 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 258.66 Mbit/s
95th percentile per-packet one-way delay: 17.458 ms
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-07-09 22:21:02

End at: 2018-07-09 22:21:32

Local clock offset: 1.049 ms

Remote clock offset: -2.896 ms

Below is generated by plot.py at 2018-07-10 01:54:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.53 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.00%

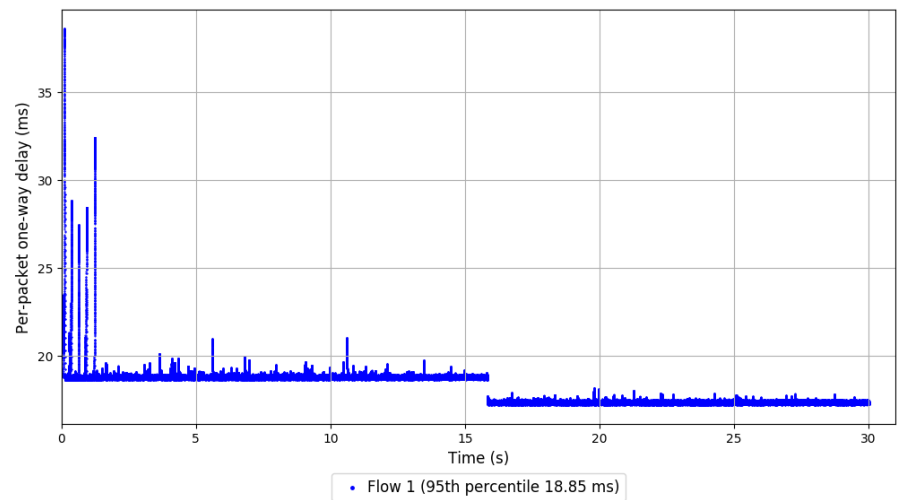
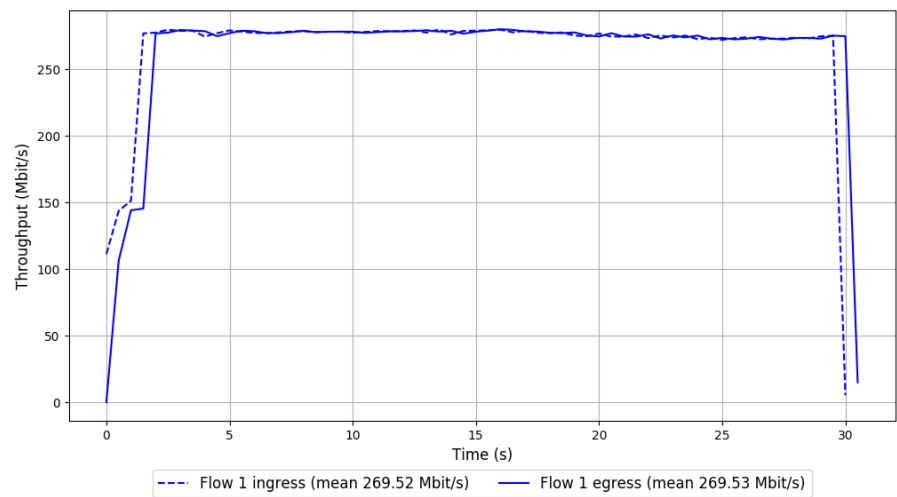
-- Flow 1:

Average throughput: 269.53 Mbit/s

95th percentile per-packet one-way delay: 18.849 ms

Loss rate: 0.00%

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

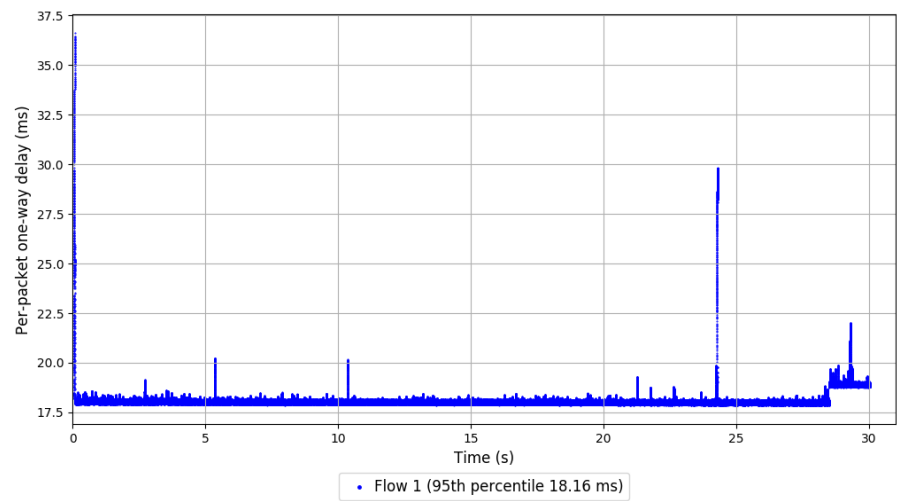
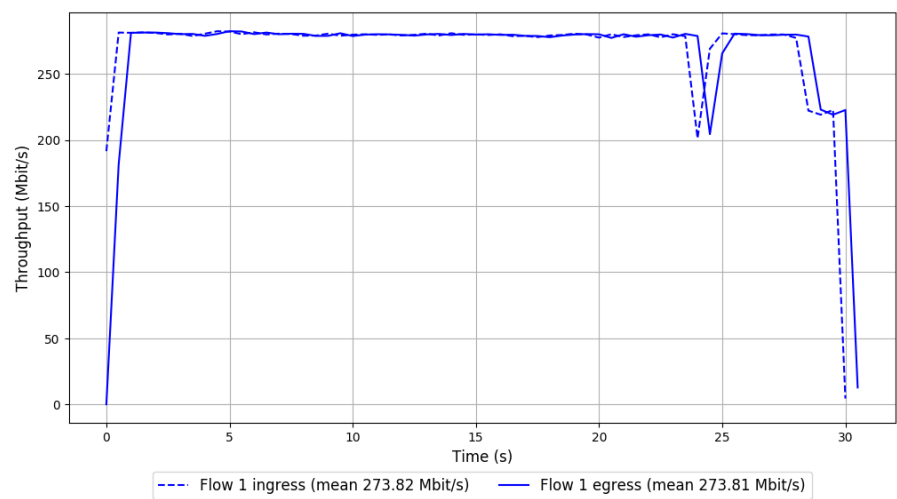


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-09 22:46:38
End at: 2018-07-09 22:47:08
Local clock offset: 0.686 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-07-10 01:54:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 273.81 Mbit/s
95th percentile per-packet one-way delay: 18.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 273.81 Mbit/s
95th percentile per-packet one-way delay: 18.163 ms
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-07-09 23:11:56

End at: 2018-07-09 23:12:26

Local clock offset: 0.875 ms

Remote clock offset: 2.366 ms

Below is generated by plot.py at 2018-07-10 01:54:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 19.366 ms

Loss rate: 1.01%

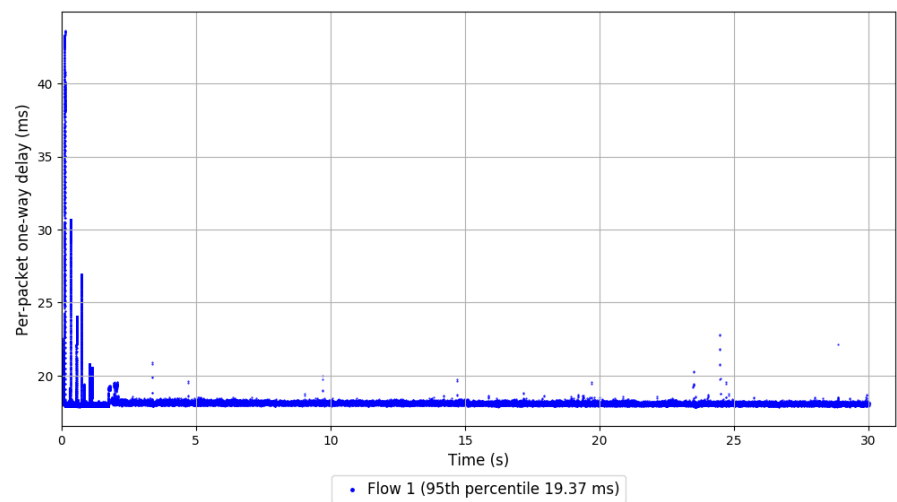
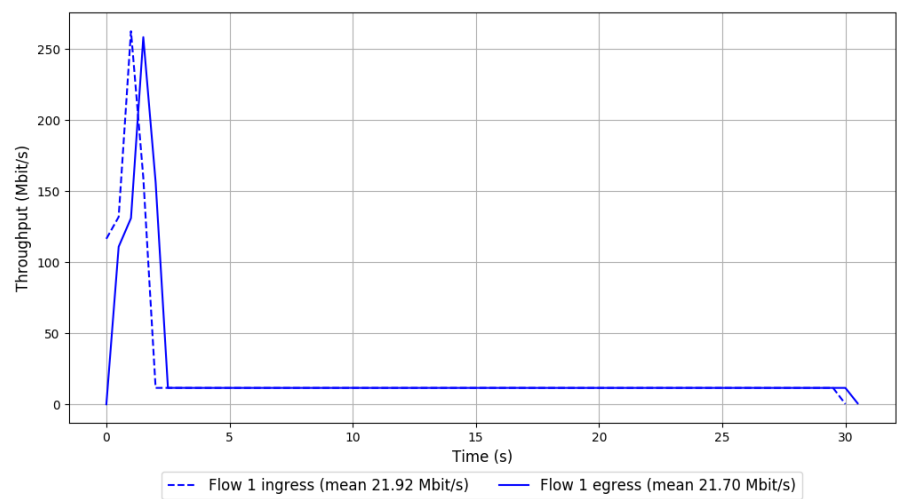
-- Flow 1:

Average throughput: 21.70 Mbit/s

95th percentile per-packet one-way delay: 19.366 ms

Loss rate: 1.01%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-07-09 23:37:18

End at: 2018-07-09 23:37:48

Local clock offset: 0.999 ms

Remote clock offset: 4.625 ms

Below is generated by plot.py at 2018-07-10 01:54:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 119.23 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.23%

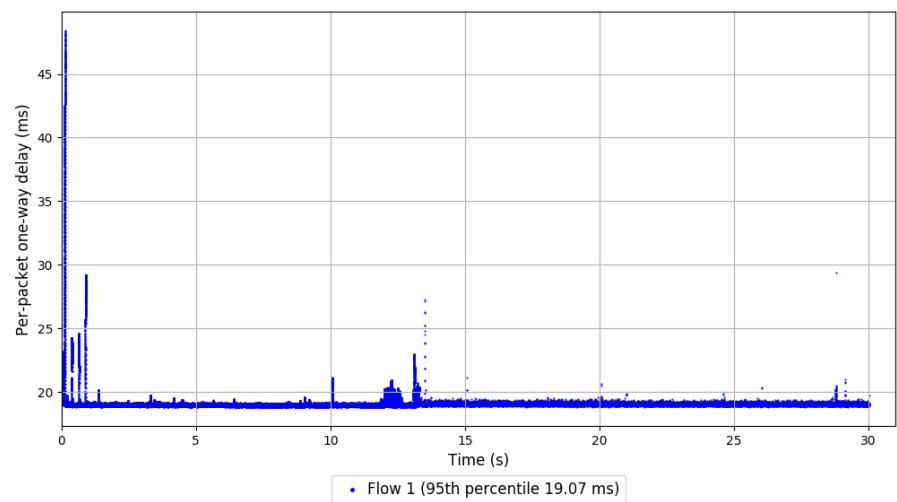
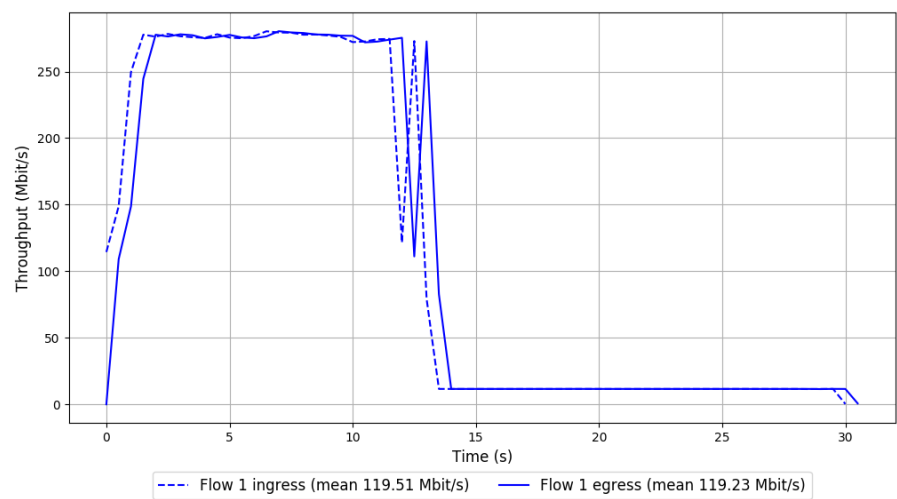
-- Flow 1:

Average throughput: 119.23 Mbit/s

95th percentile per-packet one-way delay: 19.070 ms

Loss rate: 0.23%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-07-10 00:02:33

End at: 2018-07-10 00:03:03

Local clock offset: 0.465 ms

Remote clock offset: 3.695 ms

Below is generated by plot.py at 2018-07-10 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.19 Mbit/s

95th percentile per-packet one-way delay: 18.854 ms

Loss rate: 0.01%

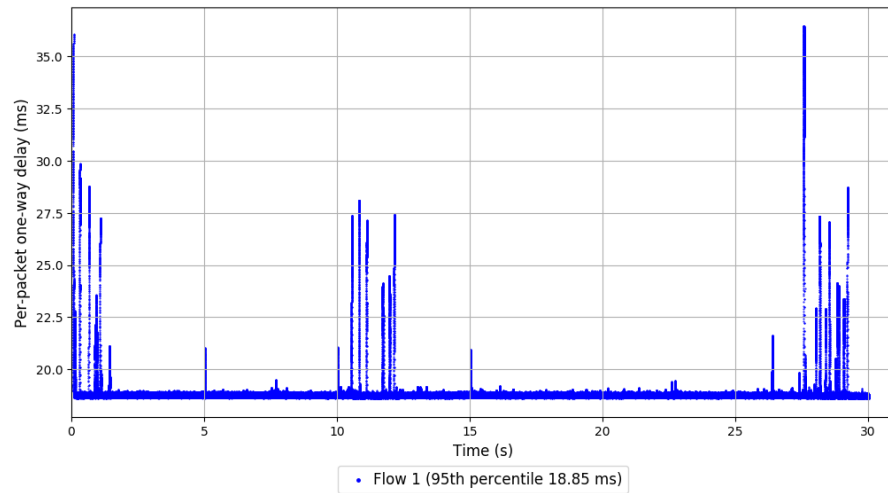
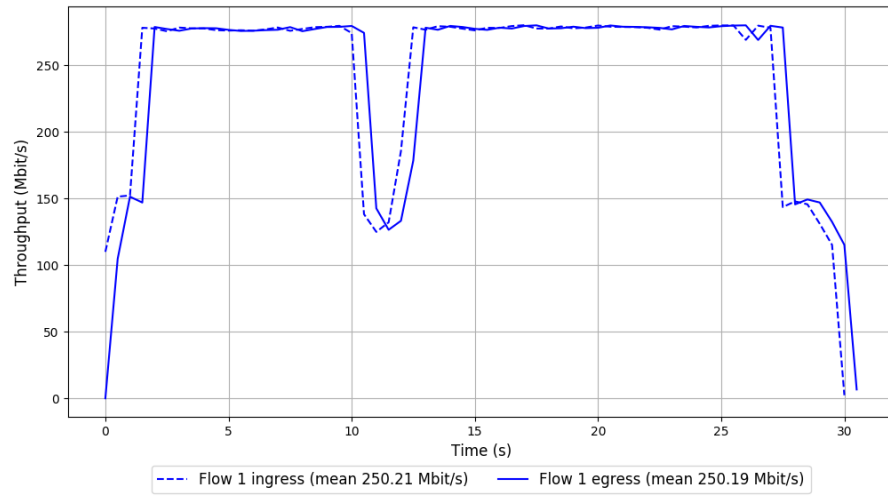
-- Flow 1:

Average throughput: 250.19 Mbit/s

95th percentile per-packet one-way delay: 18.854 ms

Loss rate: 0.01%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-07-09 20:12:17

End at: 2018-07-09 20:12:47

Local clock offset: 0.463 ms

Remote clock offset: 2.213 ms

Below is generated by plot.py at 2018-07-10 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 20.843 ms

Loss rate: 0.40%

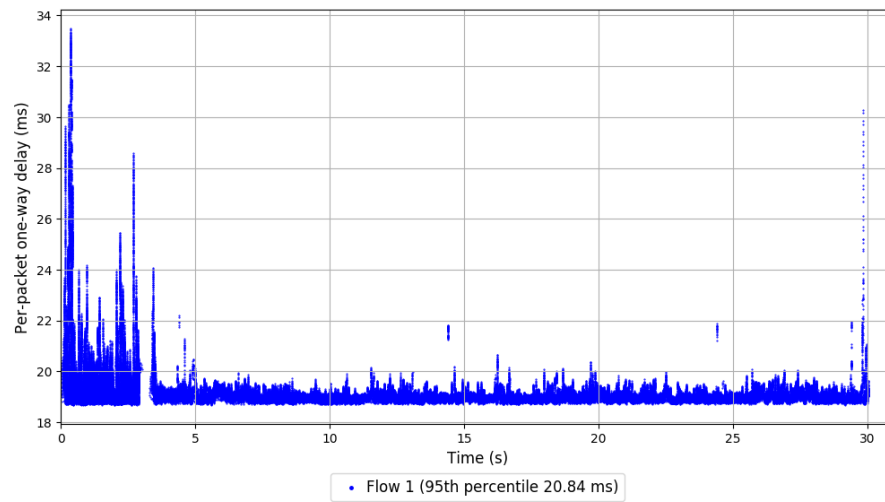
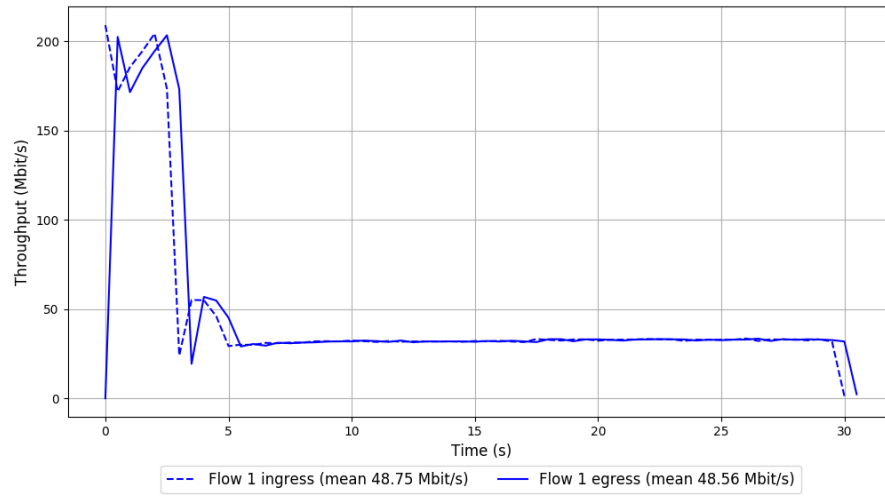
-- Flow 1:

Average throughput: 48.56 Mbit/s

95th percentile per-packet one-way delay: 20.843 ms

Loss rate: 0.40%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-07-09 20:37:35

End at: 2018-07-09 20:38:05

Local clock offset: 0.898 ms

Remote clock offset: 2.96 ms

Below is generated by plot.py at 2018-07-10 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.82 Mbit/s

95th percentile per-packet one-way delay: 22.701 ms

Loss rate: 0.09%

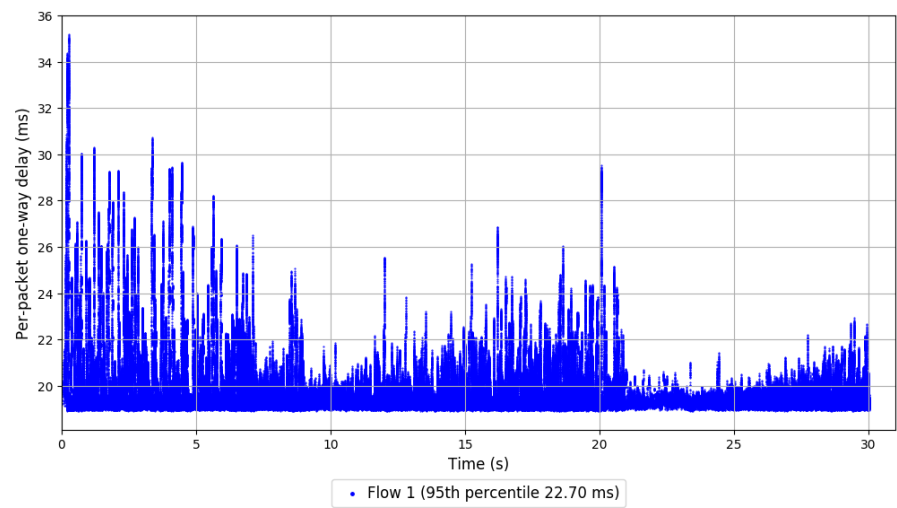
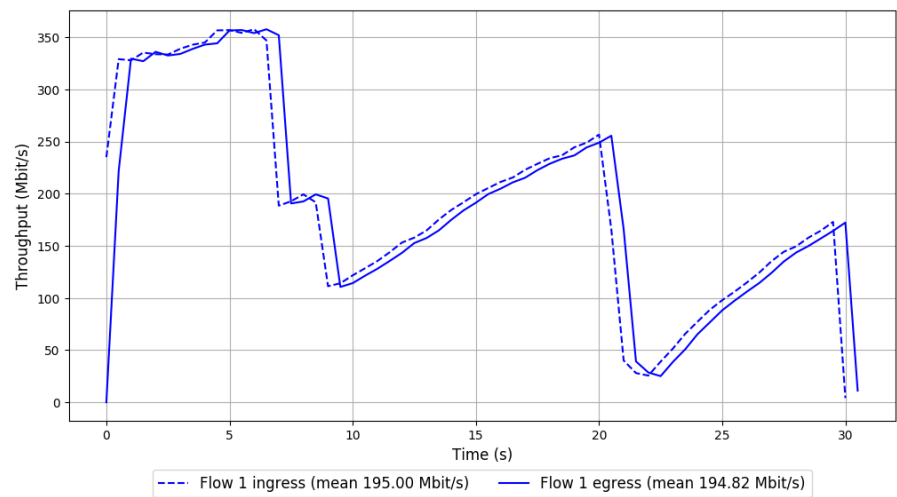
-- Flow 1:

Average throughput: 194.82 Mbit/s

95th percentile per-packet one-way delay: 22.701 ms

Loss rate: 0.09%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-07-09 21:03:01

End at: 2018-07-09 21:03:31

Local clock offset: 1.172 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-07-10 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 21.412 ms

Loss rate: 0.03%

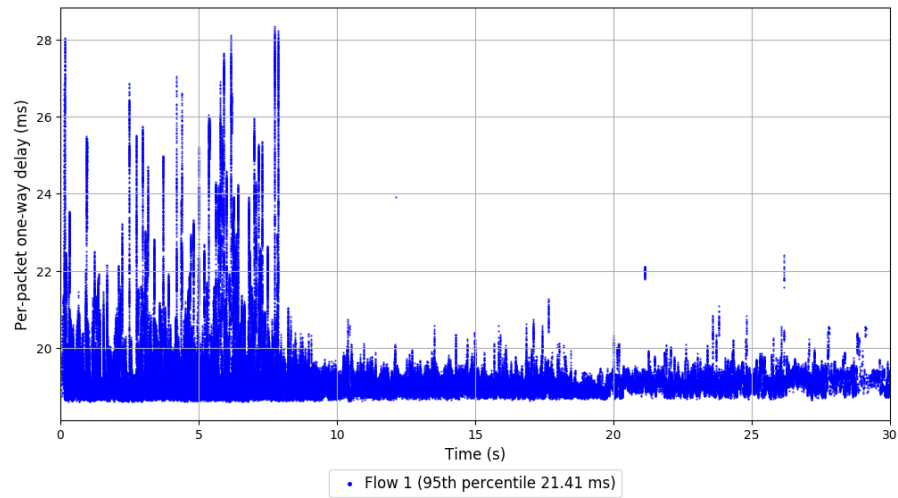
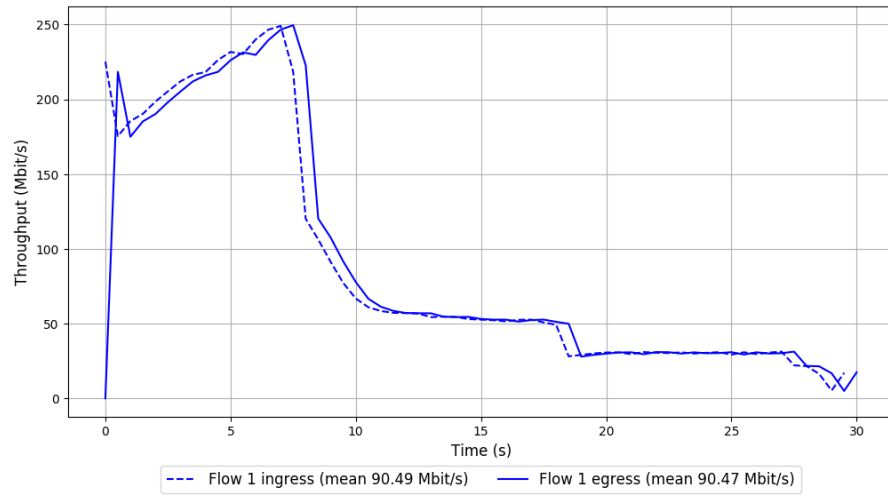
-- Flow 1:

Average throughput: 90.47 Mbit/s

95th percentile per-packet one-way delay: 21.412 ms

Loss rate: 0.03%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-07-09 21:28:41

End at: 2018-07-09 21:29:11

Local clock offset: 1.043 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2018-07-10 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.91 Mbit/s

95th percentile per-packet one-way delay: 21.878 ms

Loss rate: 0.11%

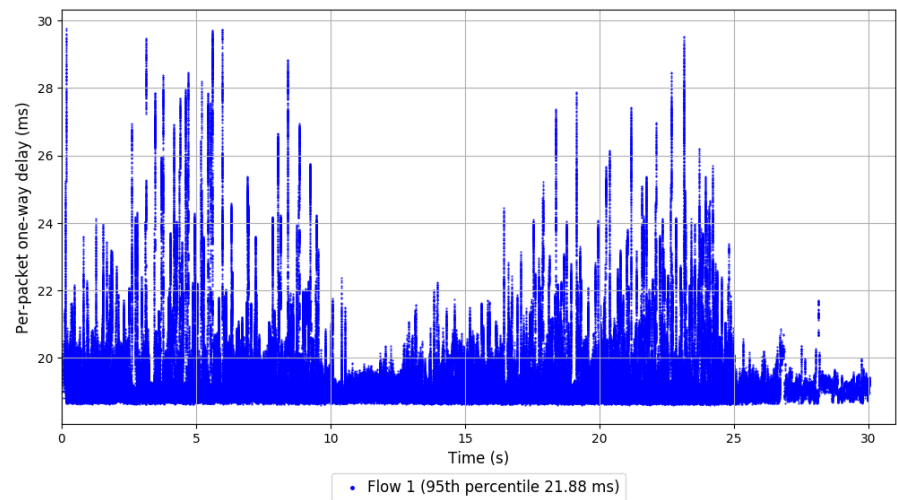
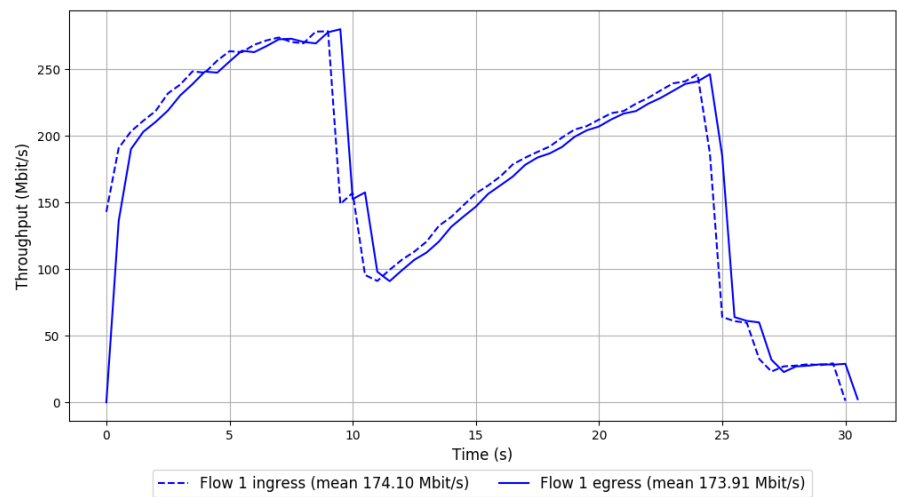
-- Flow 1:

Average throughput: 173.91 Mbit/s

95th percentile per-packet one-way delay: 21.878 ms

Loss rate: 0.11%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-07-09 21:54:09

End at: 2018-07-09 21:54:39

Local clock offset: 1.435 ms

Remote clock offset: -0.53 ms

Below is generated by plot.py at 2018-07-10 01:57:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 153.93 Mbit/s

95th percentile per-packet one-way delay: 21.632 ms

Loss rate: 0.17%

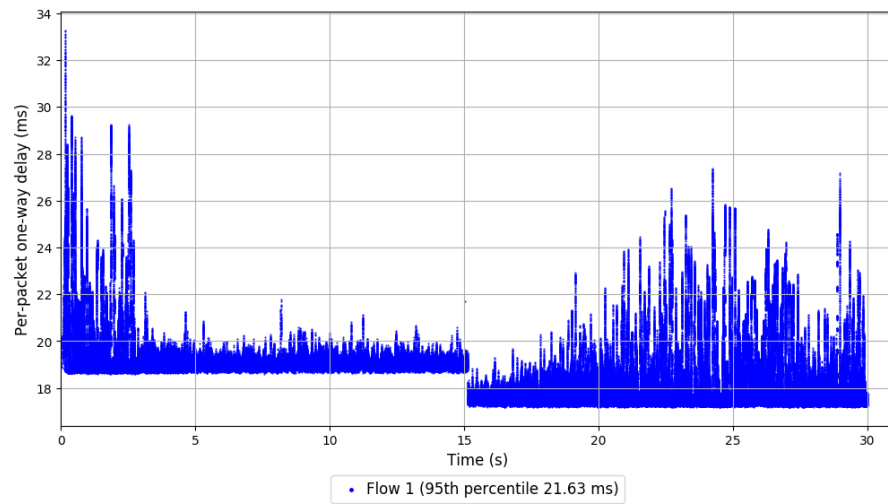
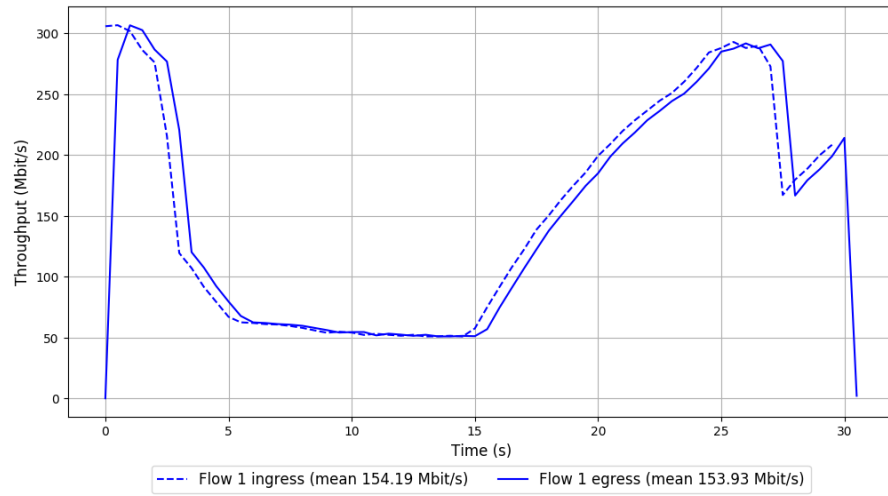
-- Flow 1:

Average throughput: 153.93 Mbit/s

95th percentile per-packet one-way delay: 21.632 ms

Loss rate: 0.17%

Run 5: Report of TCP Vegas — Data Link

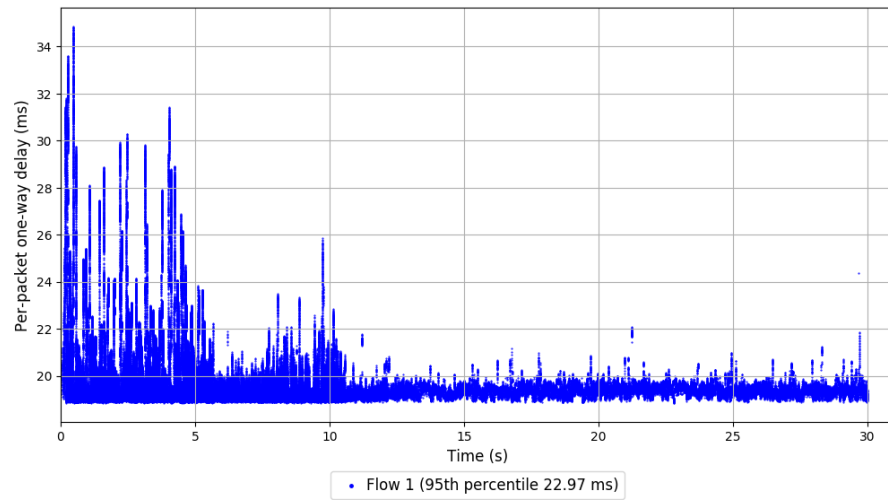
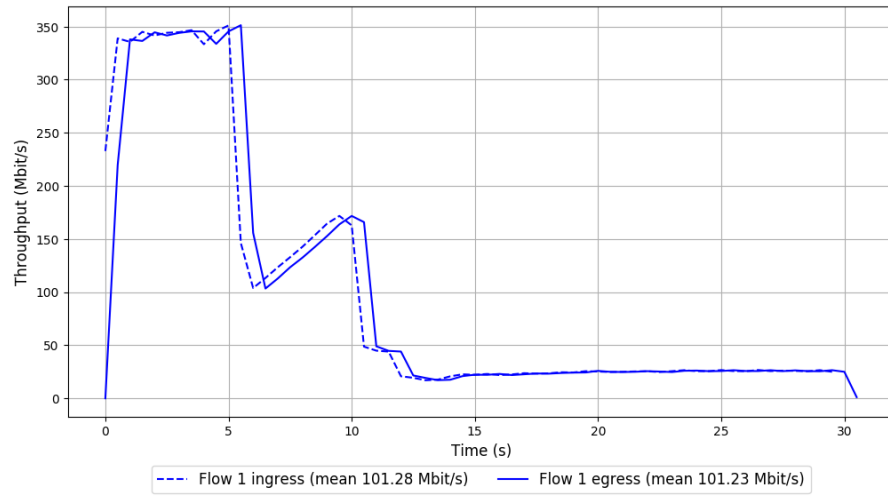


Run 6: Statistics of TCP Vegas

Start at: 2018-07-09 22:19:41
End at: 2018-07-09 22:20:11
Local clock offset: 1.11 ms
Remote clock offset: -2.786 ms

Below is generated by plot.py at 2018-07-10 01:57:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 101.23 Mbit/s
95th percentile per-packet one-way delay: 22.973 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 101.23 Mbit/s
95th percentile per-packet one-way delay: 22.973 ms
Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-07-09 22:45:12

End at: 2018-07-09 22:45:42

Local clock offset: 0.731 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-07-10 01:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.71 Mbit/s

95th percentile per-packet one-way delay: 21.961 ms

Loss rate: 0.02%

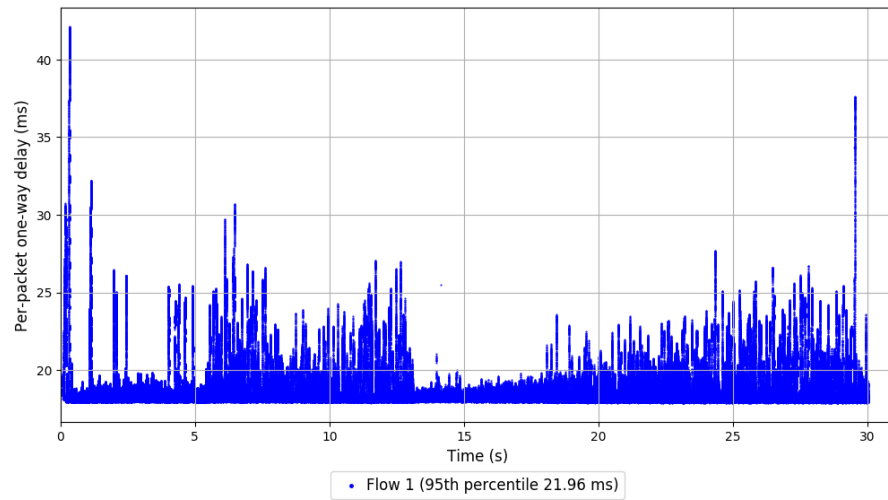
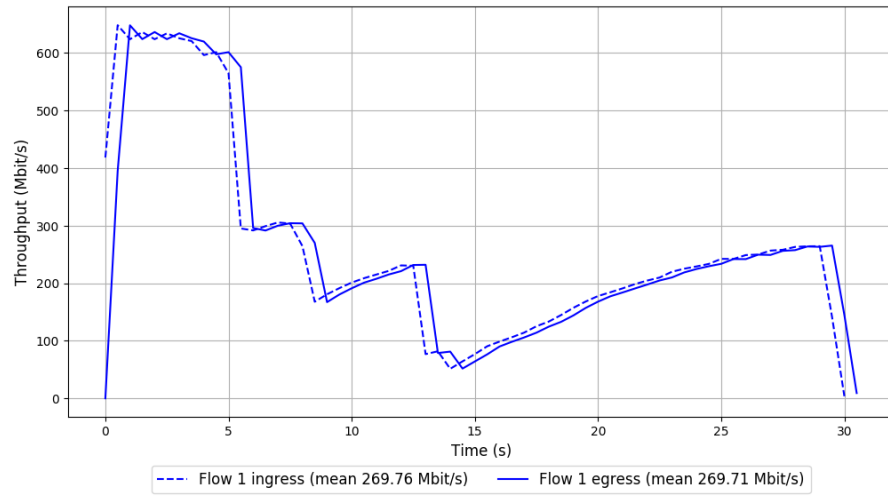
-- Flow 1:

Average throughput: 269.71 Mbit/s

95th percentile per-packet one-way delay: 21.961 ms

Loss rate: 0.02%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-07-09 23:10:36

End at: 2018-07-09 23:11:06

Local clock offset: 0.869 ms

Remote clock offset: 2.175 ms

Below is generated by plot.py at 2018-07-10 01:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 22.161 ms

Loss rate: 0.12%

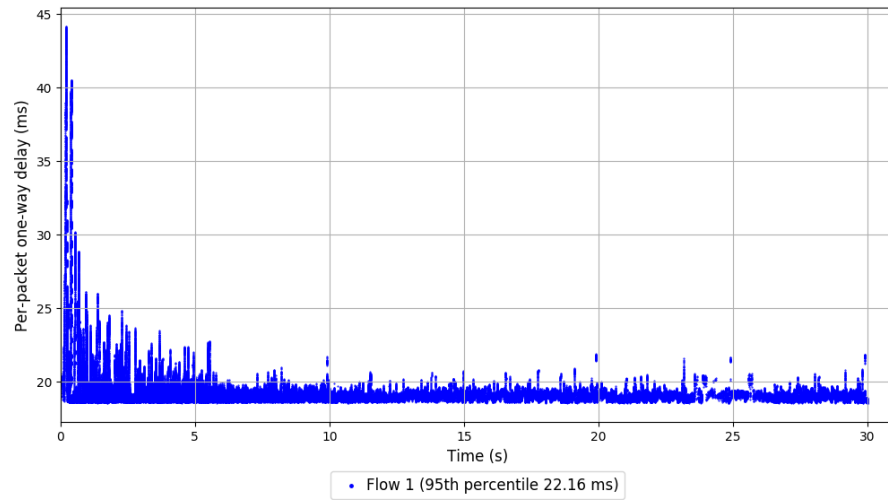
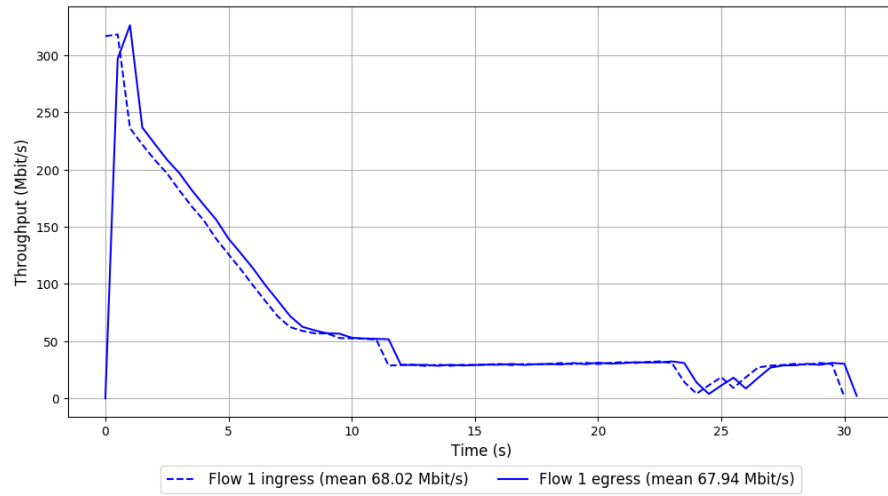
-- Flow 1:

Average throughput: 67.94 Mbit/s

95th percentile per-packet one-way delay: 22.161 ms

Loss rate: 0.12%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-07-09 23:35:54

End at: 2018-07-09 23:36:24

Local clock offset: 0.93 ms

Remote clock offset: 4.527 ms

Below is generated by plot.py at 2018-07-10 01:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.25 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.01%

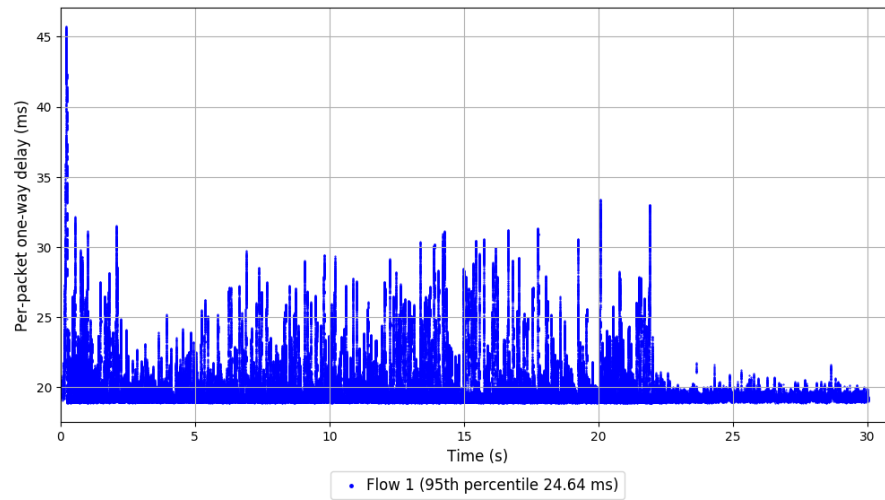
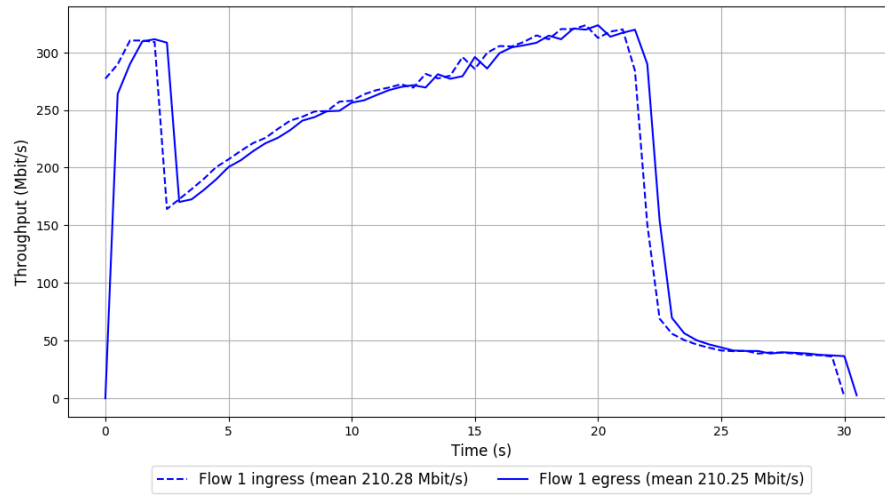
-- Flow 1:

Average throughput: 210.25 Mbit/s

95th percentile per-packet one-way delay: 24.640 ms

Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-07-10 00:01:15

End at: 2018-07-10 00:01:45

Local clock offset: 0.502 ms

Remote clock offset: 3.693 ms

Below is generated by plot.py at 2018-07-10 01:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 22.606 ms

Loss rate: 0.58%

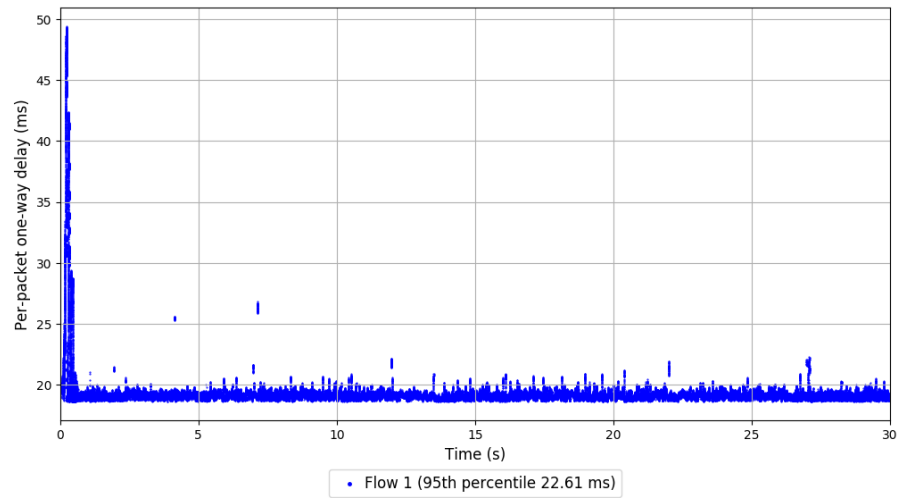
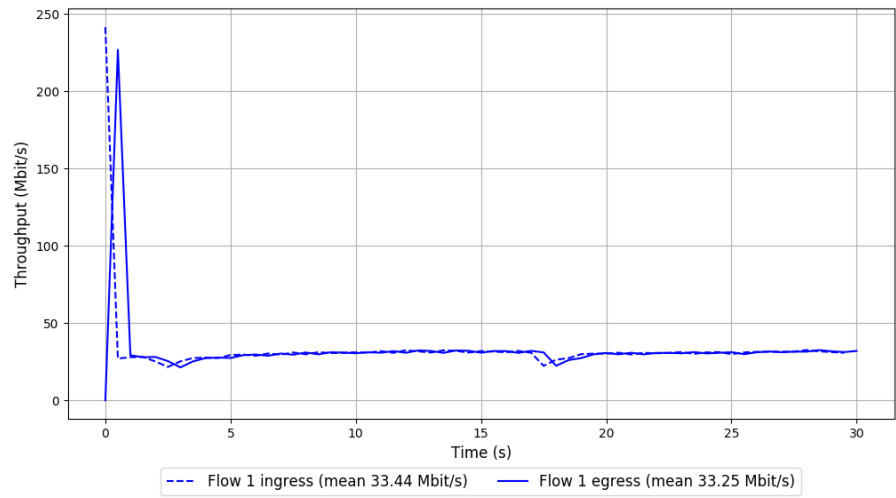
-- Flow 1:

Average throughput: 33.25 Mbit/s

95th percentile per-packet one-way delay: 22.606 ms

Loss rate: 0.58%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-07-09 20:21:33

End at: 2018-07-09 20:22:03

Local clock offset: 0.708 ms

Remote clock offset: 2.595 ms

Below is generated by plot.py at 2018-07-10 01:57:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.06 Mbit/s

95th percentile per-packet one-way delay: 61.030 ms

Loss rate: 20.91%

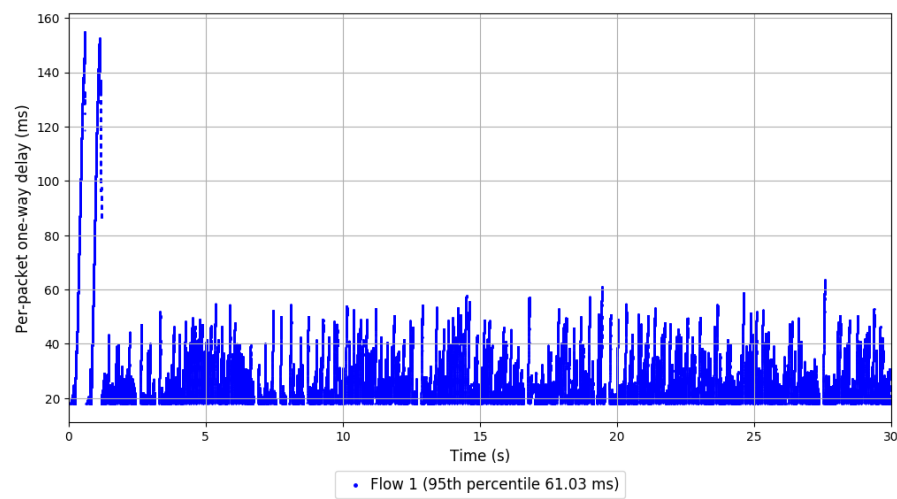
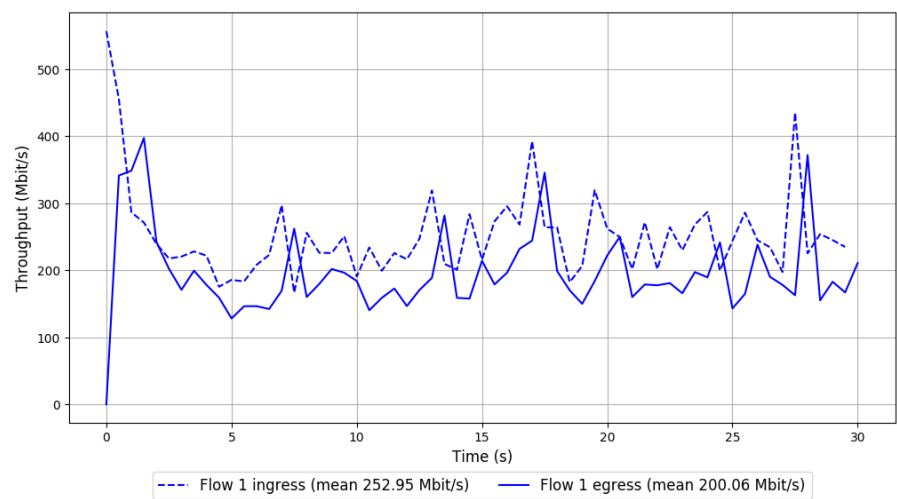
-- Flow 1:

Average throughput: 200.06 Mbit/s

95th percentile per-packet one-way delay: 61.030 ms

Loss rate: 20.91%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-07-09 20:46:48

End at: 2018-07-09 20:47:18

Local clock offset: 1.029 ms

Remote clock offset: 3.137 ms

Below is generated by plot.py at 2018-07-10 01:57:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.83 Mbit/s

95th percentile per-packet one-way delay: 47.752 ms

Loss rate: 14.08%

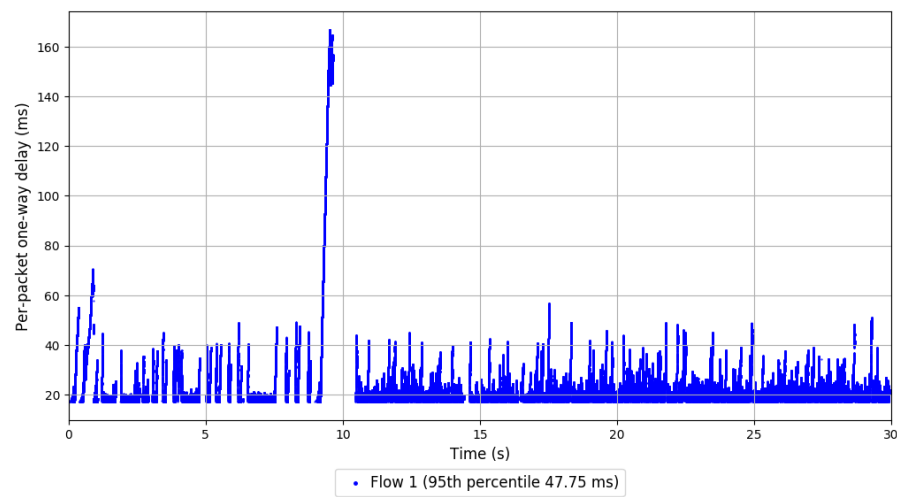
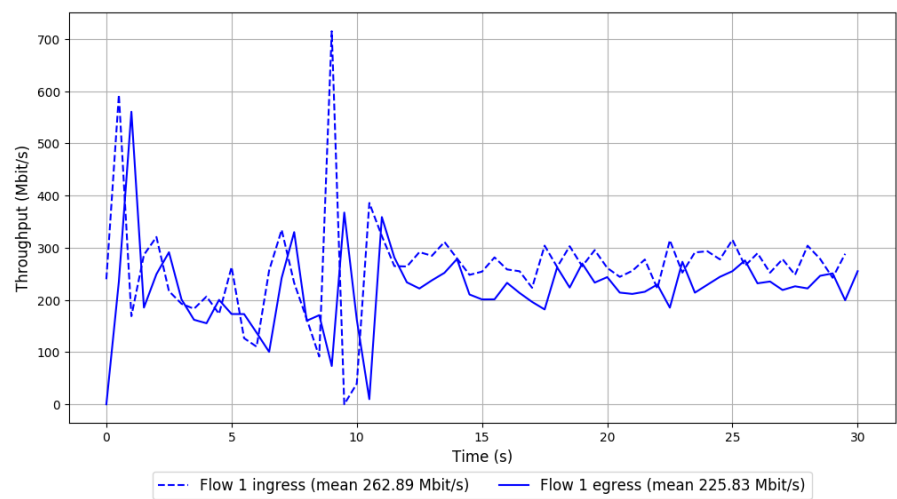
-- Flow 1:

Average throughput: 225.83 Mbit/s

95th percentile per-packet one-way delay: 47.752 ms

Loss rate: 14.08%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-07-09 21:12:09

End at: 2018-07-09 21:12:39

Local clock offset: 1.01 ms

Remote clock offset: -1.01 ms

Below is generated by plot.py at 2018-07-10 01:57:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.27 Mbit/s

95th percentile per-packet one-way delay: 67.762 ms

Loss rate: 33.00%

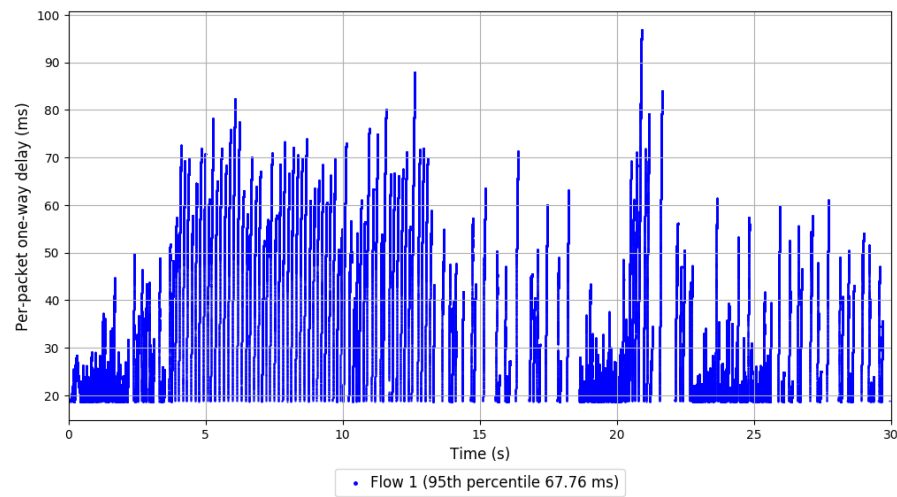
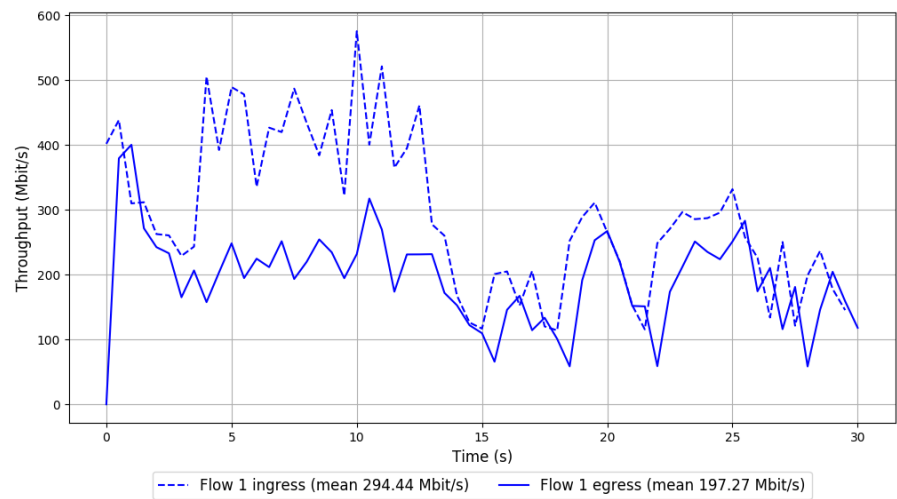
-- Flow 1:

Average throughput: 197.27 Mbit/s

95th percentile per-packet one-way delay: 67.762 ms

Loss rate: 33.00%

Run 3: Report of Verus — Data Link

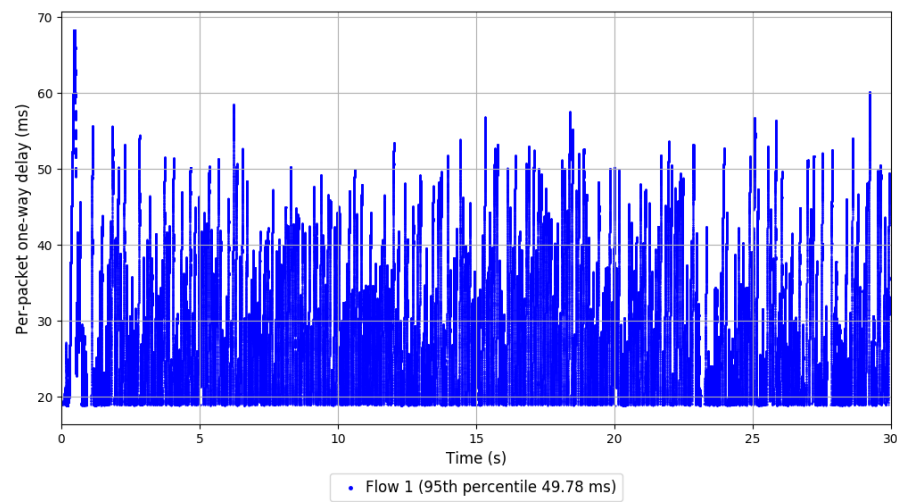
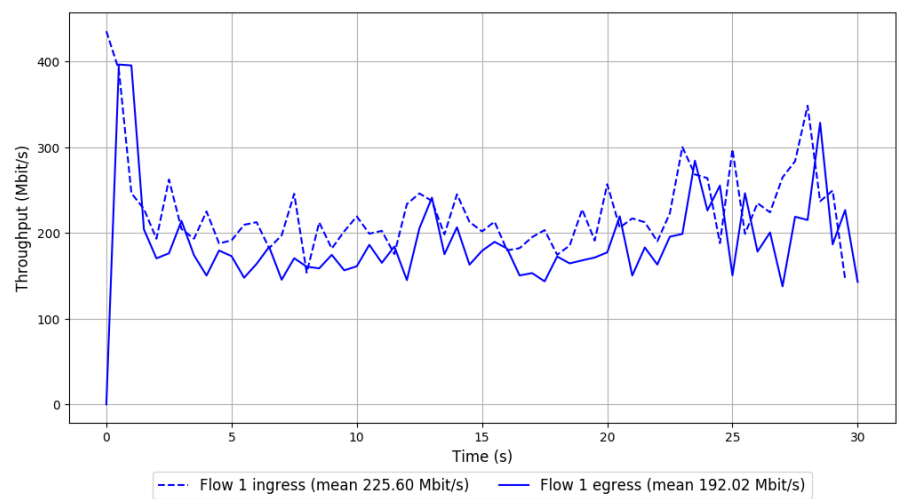


Run 4: Statistics of Verus

Start at: 2018-07-09 21:37:53
End at: 2018-07-09 21:38:23
Local clock offset: 1.177 ms
Remote clock offset: -0.522 ms

Below is generated by plot.py at 2018-07-10 01:57:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 192.02 Mbit/s
95th percentile per-packet one-way delay: 49.785 ms
Loss rate: 14.84%
-- Flow 1:
Average throughput: 192.02 Mbit/s
95th percentile per-packet one-way delay: 49.785 ms
Loss rate: 14.84%

Run 4: Report of Verus — Data Link

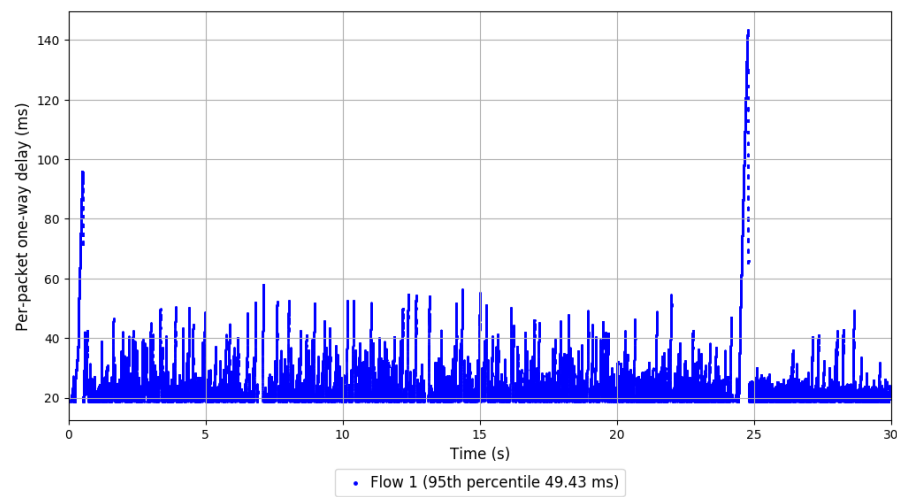
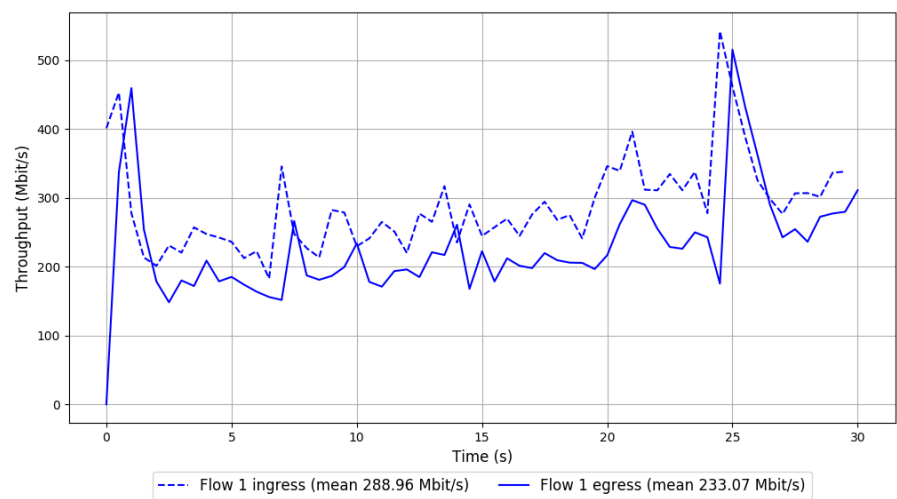


Run 5: Statistics of Verus

Start at: 2018-07-09 22:03:19
End at: 2018-07-09 22:03:49
Local clock offset: 1.422 ms
Remote clock offset: -1.599 ms

Below is generated by plot.py at 2018-07-10 01:58:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.07 Mbit/s
95th percentile per-packet one-way delay: 49.430 ms
Loss rate: 19.34%
-- Flow 1:
Average throughput: 233.07 Mbit/s
95th percentile per-packet one-way delay: 49.430 ms
Loss rate: 19.34%

Run 5: Report of Verus — Data Link

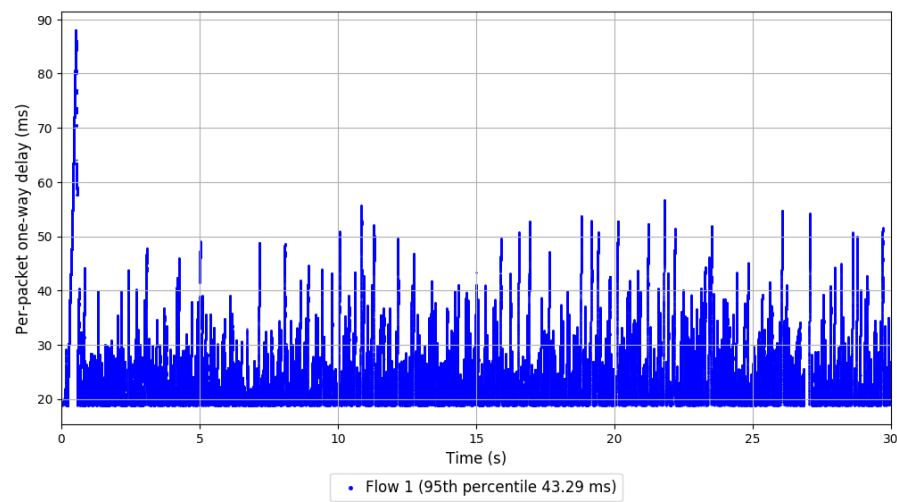
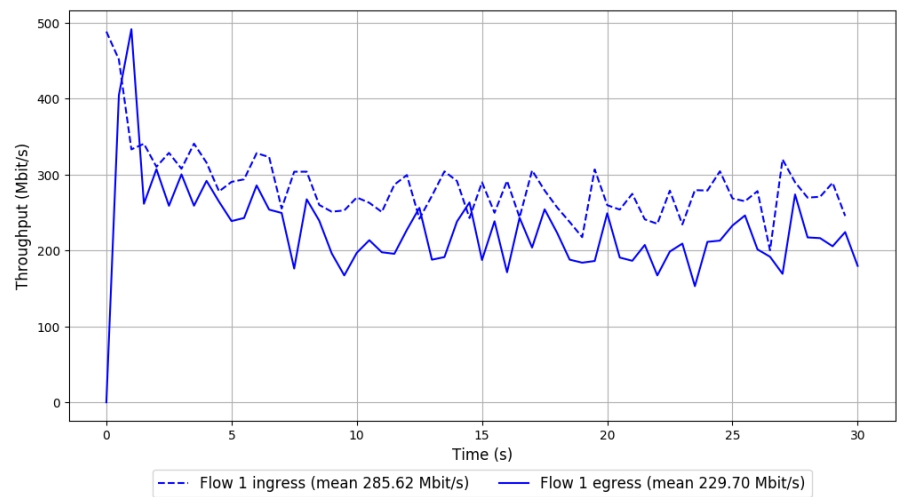


Run 6: Statistics of Verus

Start at: 2018-07-09 22:28:50
End at: 2018-07-09 22:29:20
Local clock offset: 0.915 ms
Remote clock offset: -3.278 ms

Below is generated by plot.py at 2018-07-10 01:59:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.70 Mbit/s
95th percentile per-packet one-way delay: 43.293 ms
Loss rate: 19.58%
-- Flow 1:
Average throughput: 229.70 Mbit/s
95th percentile per-packet one-way delay: 43.293 ms
Loss rate: 19.58%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-07-09 22:54:25

End at: 2018-07-09 22:54:55

Local clock offset: 0.743 ms

Remote clock offset: 0.649 ms

Below is generated by plot.py at 2018-07-10 01:59:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.54 Mbit/s

95th percentile per-packet one-way delay: 48.585 ms

Loss rate: 19.97%

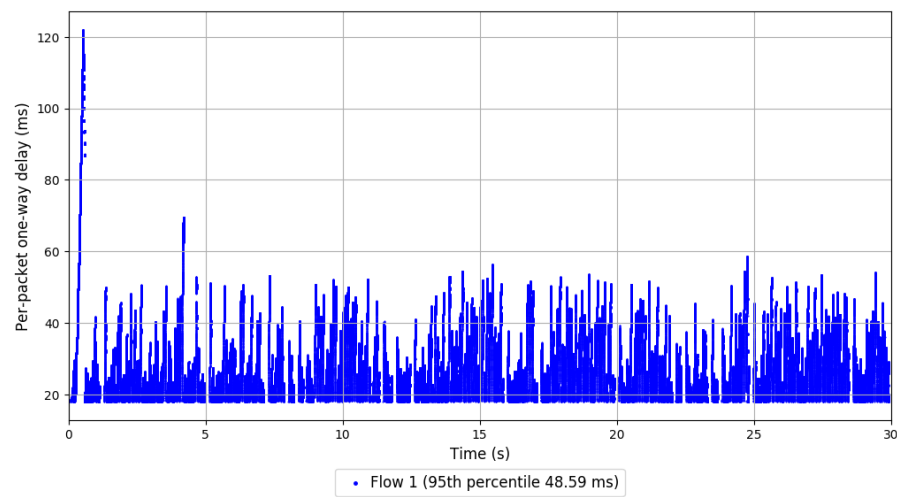
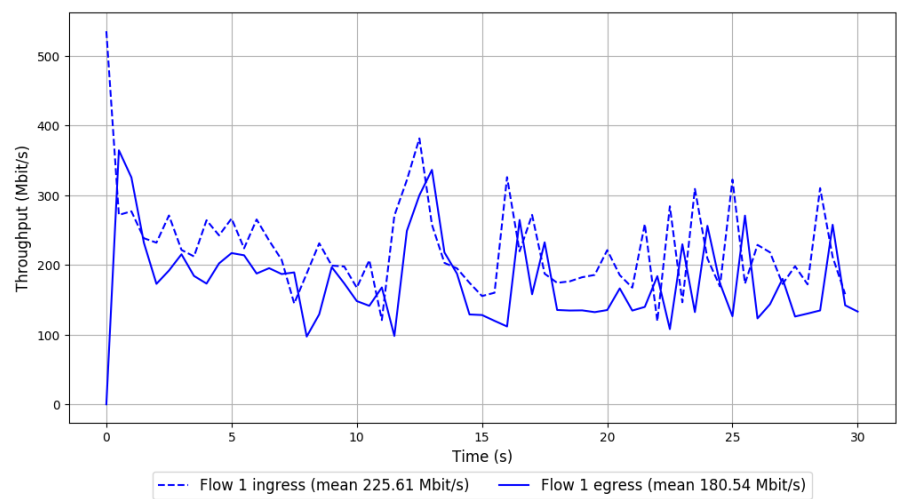
-- Flow 1:

Average throughput: 180.54 Mbit/s

95th percentile per-packet one-way delay: 48.585 ms

Loss rate: 19.97%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-07-09 23:19:29

End at: 2018-07-09 23:19:59

Local clock offset: 0.988 ms

Remote clock offset: 3.349 ms

Below is generated by plot.py at 2018-07-10 02:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.20 Mbit/s

95th percentile per-packet one-way delay: 30.290 ms

Loss rate: 7.50%

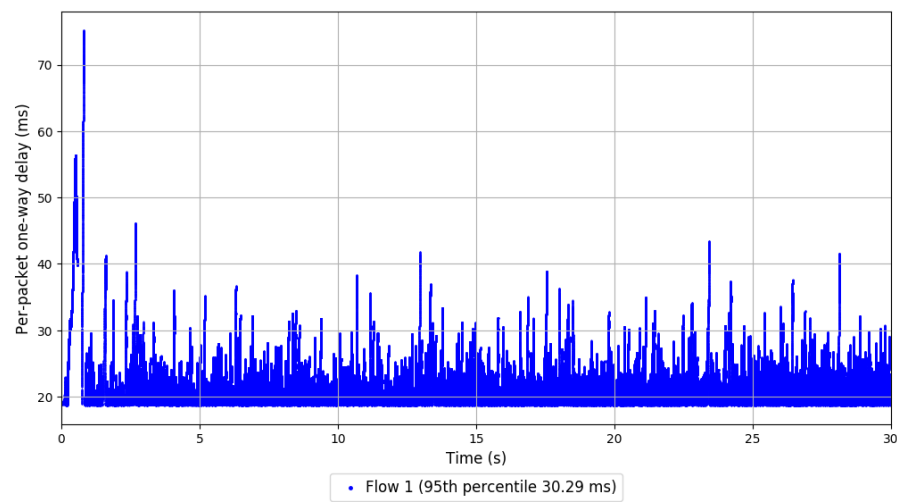
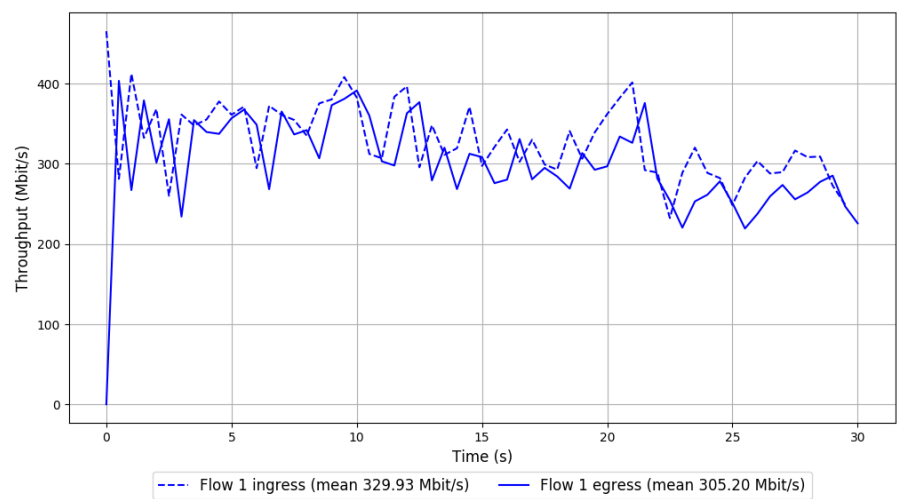
-- Flow 1:

Average throughput: 305.20 Mbit/s

95th percentile per-packet one-way delay: 30.290 ms

Loss rate: 7.50%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-09 23:44:56

End at: 2018-07-09 23:45:26

Local clock offset: 0.761 ms

Remote clock offset: 4.003 ms

Below is generated by plot.py at 2018-07-10 02:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 185.40 Mbit/s

95th percentile per-packet one-way delay: 62.953 ms

Loss rate: 18.30%

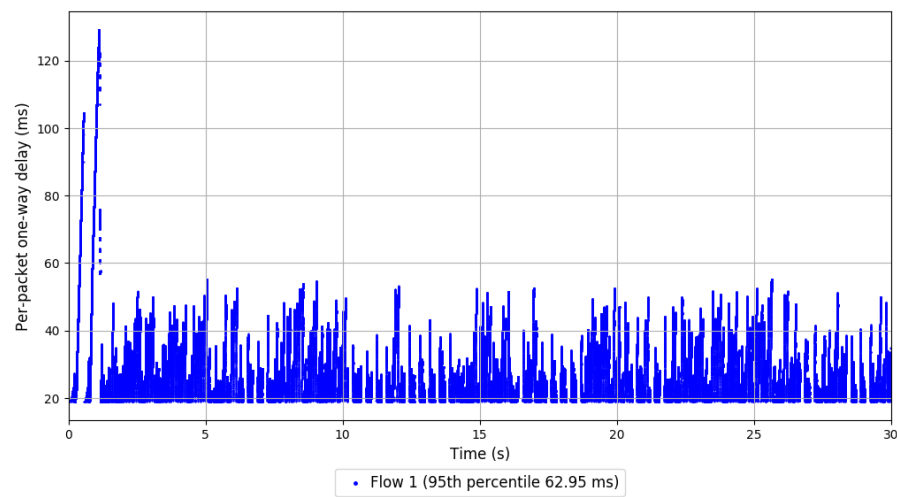
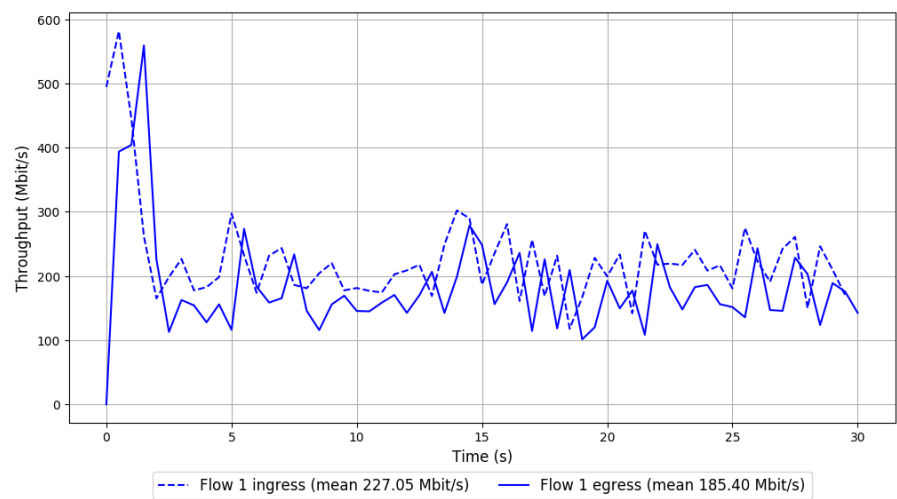
-- Flow 1:

Average throughput: 185.40 Mbit/s

95th percentile per-packet one-way delay: 62.953 ms

Loss rate: 18.30%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-07-10 00:10:19

End at: 2018-07-10 00:10:49

Local clock offset: 0.347 ms

Remote clock offset: 3.908 ms

Below is generated by plot.py at 2018-07-10 02:00:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.99 Mbit/s

95th percentile per-packet one-way delay: 35.803 ms

Loss rate: 18.92%

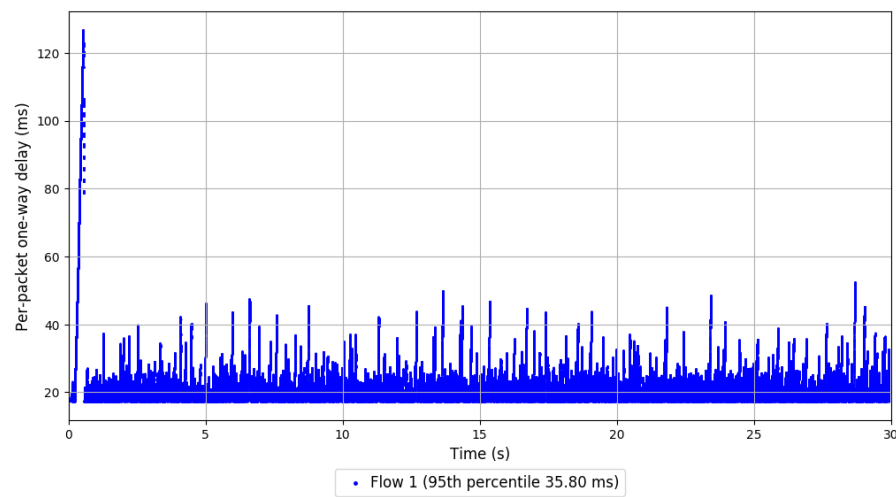
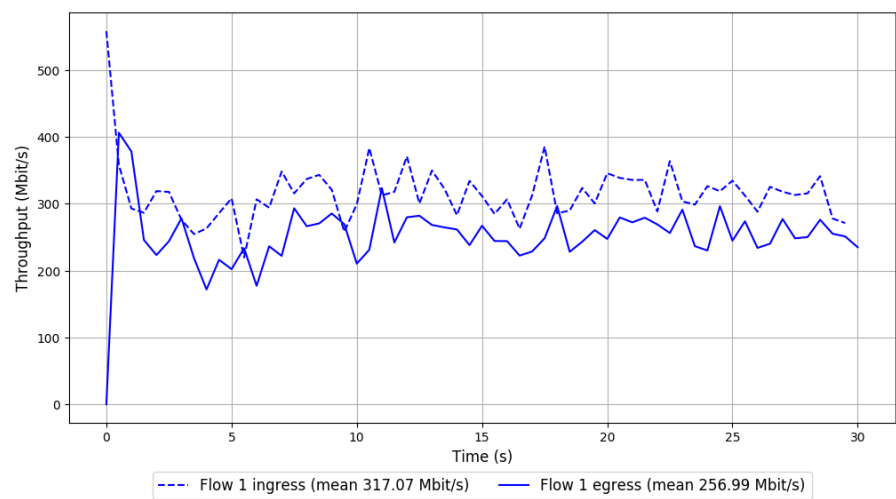
-- Flow 1:

Average throughput: 256.99 Mbit/s

95th percentile per-packet one-way delay: 35.803 ms

Loss rate: 18.92%

Run 10: Report of Verus — Data Link

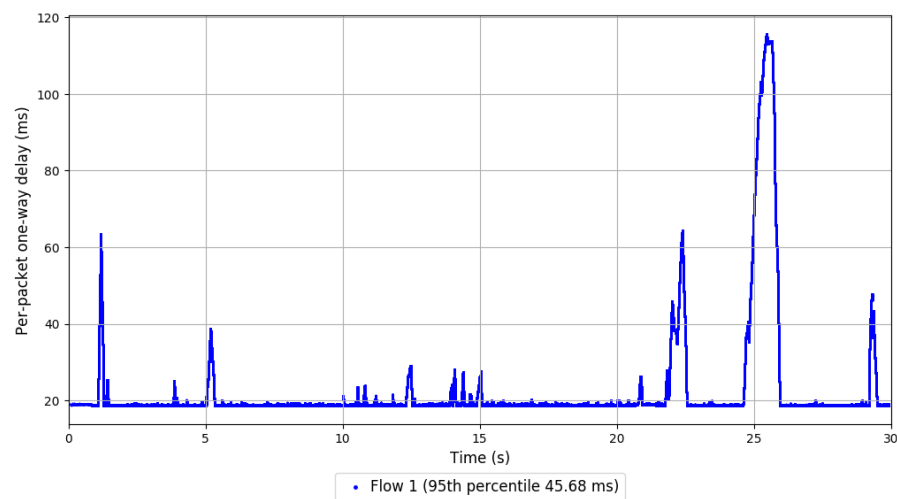
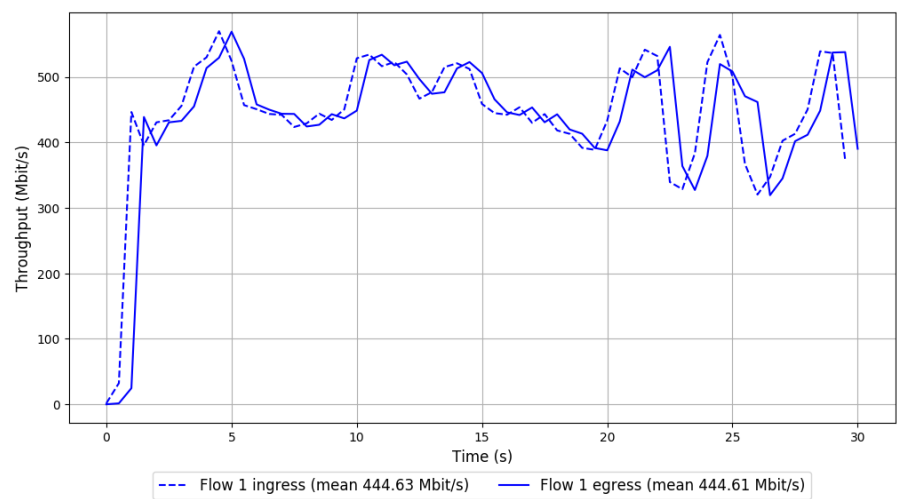


```
Run 1: Statistics of PCC-Vivace

Start at: 2018-07-09 20:10:40
End at: 2018-07-09 20:11:10
Local clock offset: 0.463 ms
Remote clock offset: 2.193 ms

# Below is generated by plot.py at 2018-07-10 02:03:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 444.61 Mbit/s
95th percentile per-packet one-way delay: 45.680 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 444.61 Mbit/s
95th percentile per-packet one-way delay: 45.680 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-07-09 20:35:58

End at: 2018-07-09 20:36:28

Local clock offset: 0.968 ms

Remote clock offset: 2.919 ms

Below is generated by plot.py at 2018-07-10 02:03:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.40 Mbit/s

95th percentile per-packet one-way delay: 24.179 ms

Loss rate: 0.48%

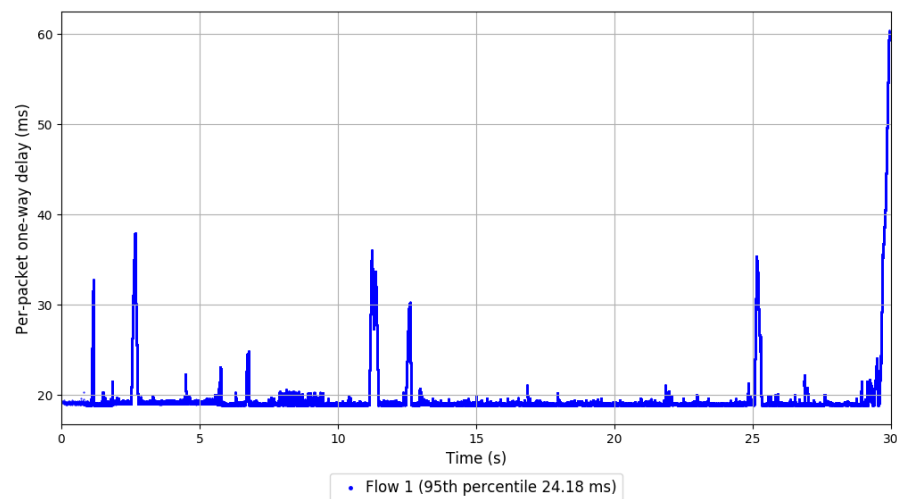
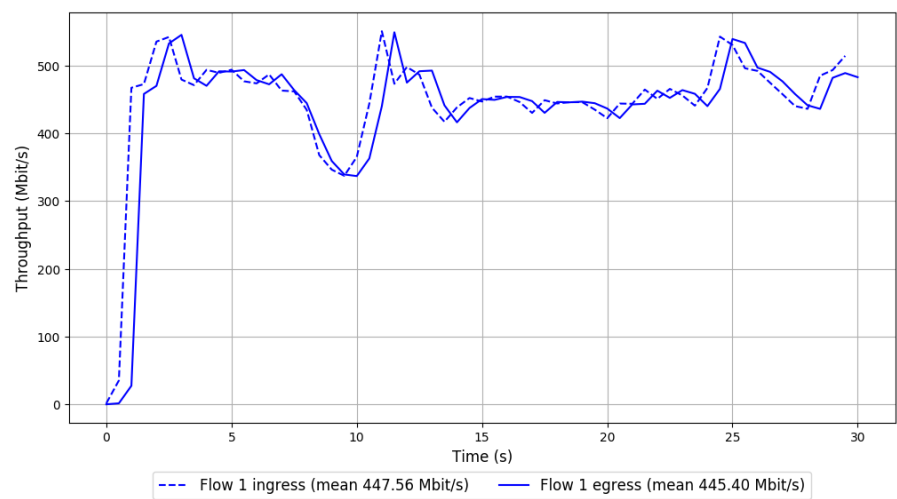
-- Flow 1:

Average throughput: 445.40 Mbit/s

95th percentile per-packet one-way delay: 24.179 ms

Loss rate: 0.48%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-07-09 21:01:25

End at: 2018-07-09 21:01:55

Local clock offset: 1.087 ms

Remote clock offset: -0.114 ms

Below is generated by plot.py at 2018-07-10 02:03:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 410.81 Mbit/s

95th percentile per-packet one-way delay: 20.419 ms

Loss rate: 0.20%

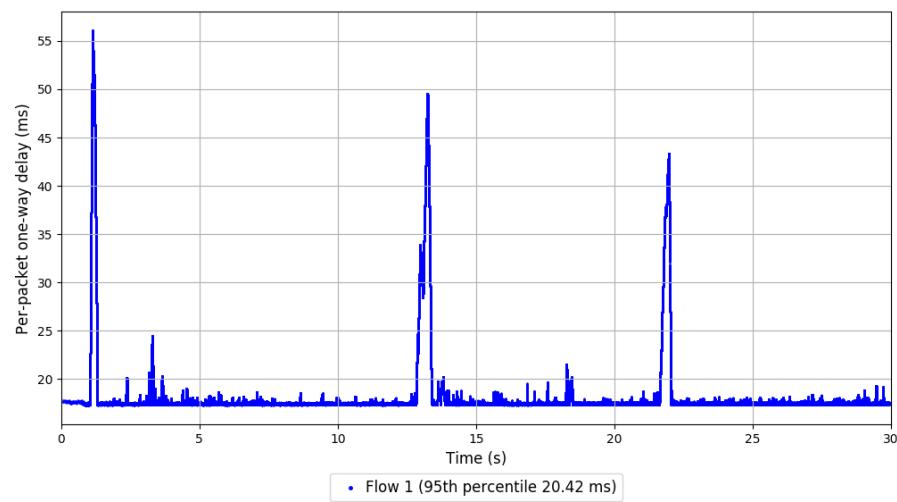
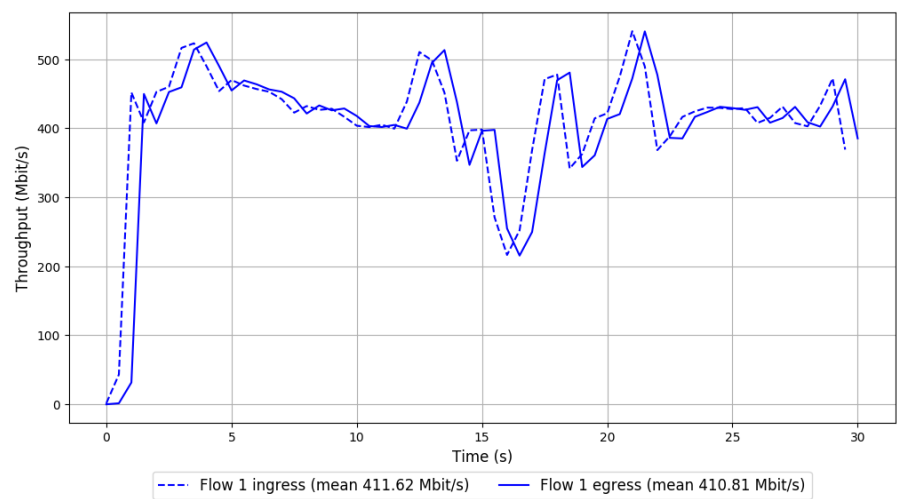
-- Flow 1:

Average throughput: 410.81 Mbit/s

95th percentile per-packet one-way delay: 20.419 ms

Loss rate: 0.20%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-07-09 21:27:04

End at: 2018-07-09 21:27:34

Local clock offset: 1.04 ms

Remote clock offset: -1.015 ms

Below is generated by plot.py at 2018-07-10 02:05:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 437.55 Mbit/s

95th percentile per-packet one-way delay: 20.375 ms

Loss rate: 0.13%

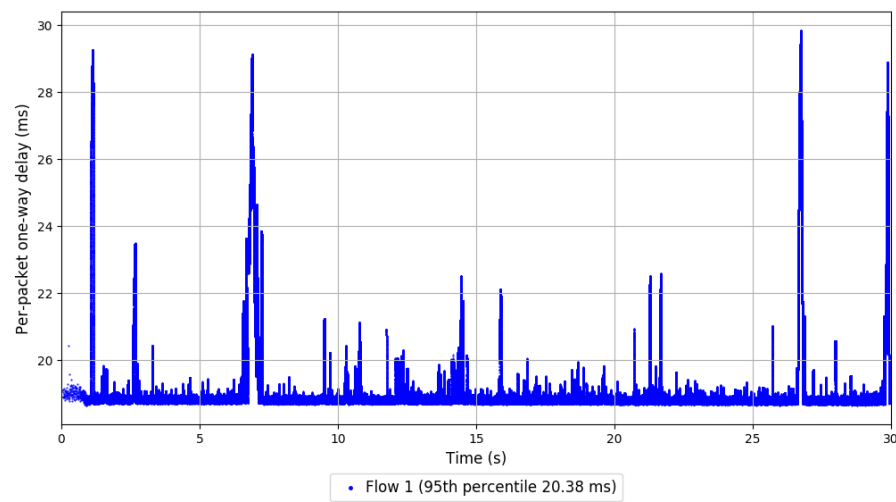
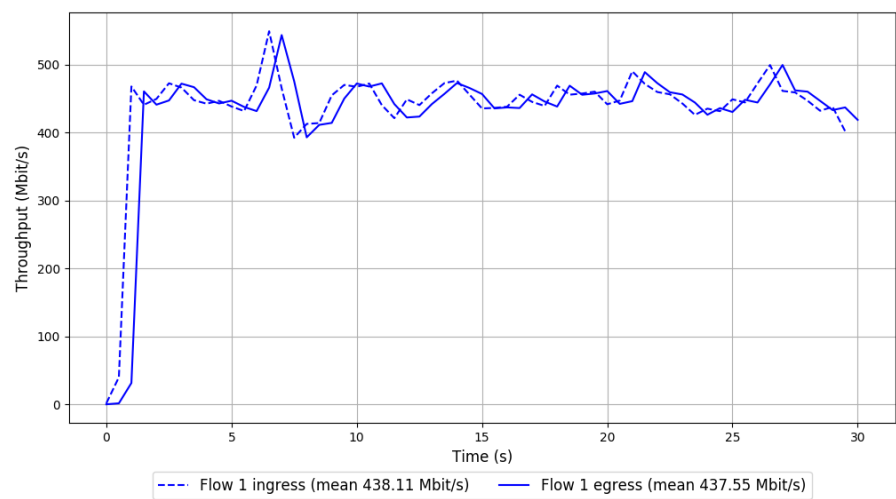
-- Flow 1:

Average throughput: 437.55 Mbit/s

95th percentile per-packet one-way delay: 20.375 ms

Loss rate: 0.13%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-07-09 21:52:32

End at: 2018-07-09 21:53:02

Local clock offset: 1.326 ms

Remote clock offset: -0.557 ms

Below is generated by plot.py at 2018-07-10 02:05:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 435.50 Mbit/s

95th percentile per-packet one-way delay: 18.380 ms

Loss rate: 0.01%

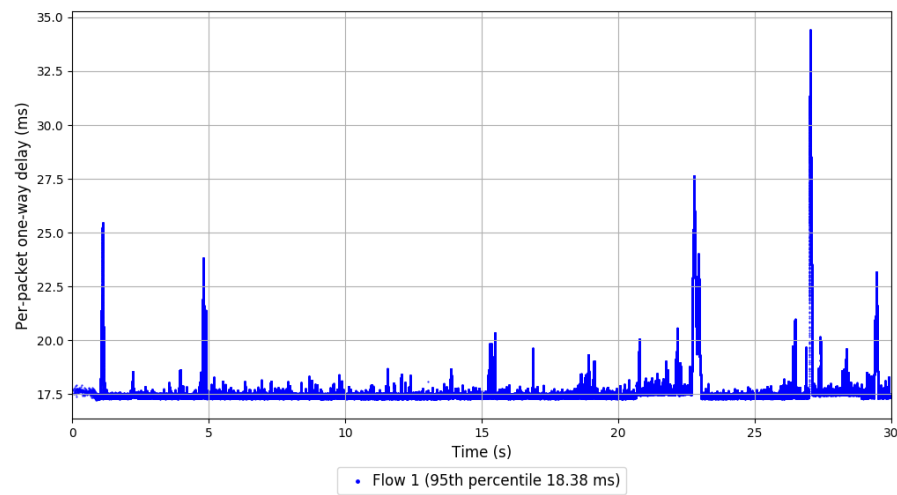
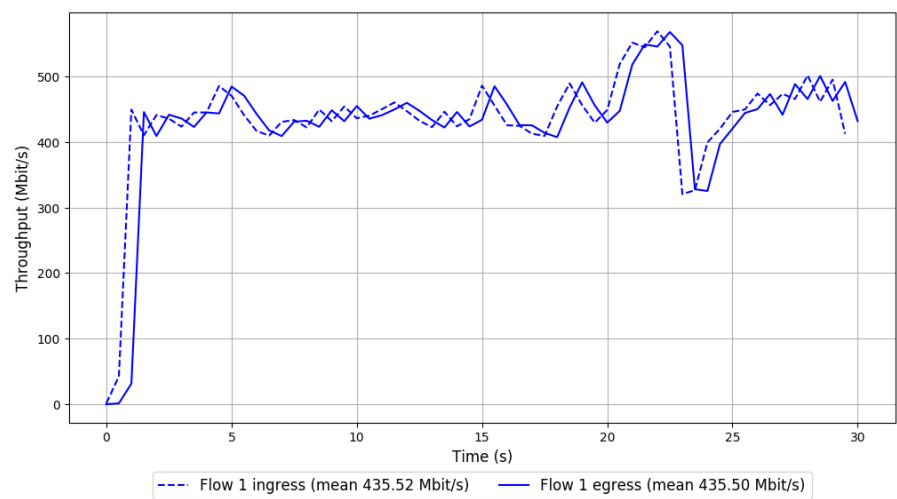
-- Flow 1:

Average throughput: 435.50 Mbit/s

95th percentile per-packet one-way delay: 18.380 ms

Loss rate: 0.01%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-07-09 22:18:03

End at: 2018-07-09 22:18:33

Local clock offset: 1.039 ms

Remote clock offset: -2.771 ms

Below is generated by plot.py at 2018-07-10 02:05:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.98 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.01%

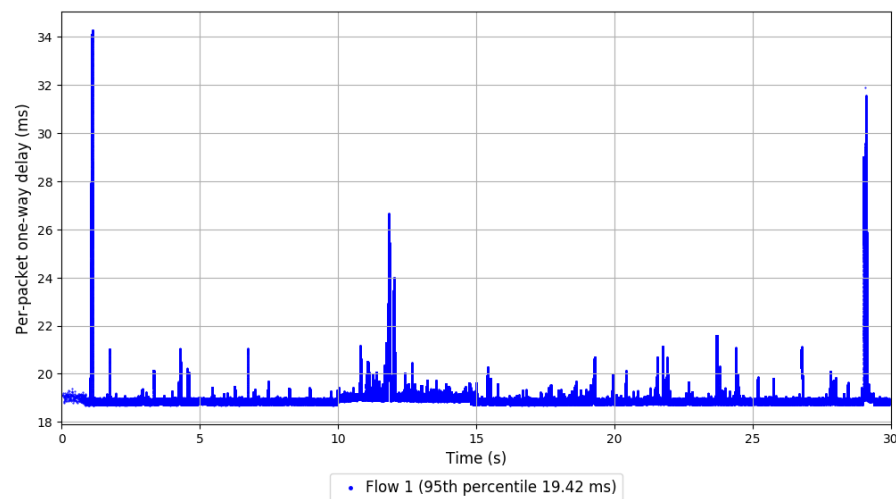
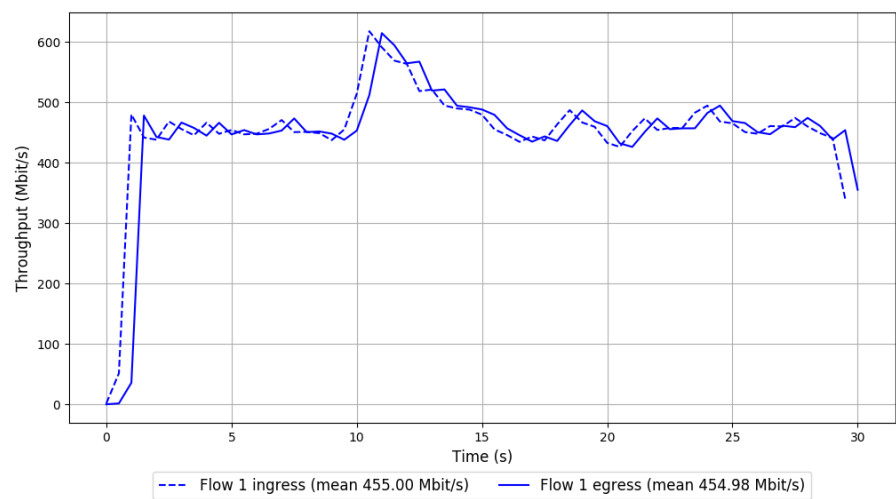
-- Flow 1:

Average throughput: 454.98 Mbit/s

95th percentile per-packet one-way delay: 19.419 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link

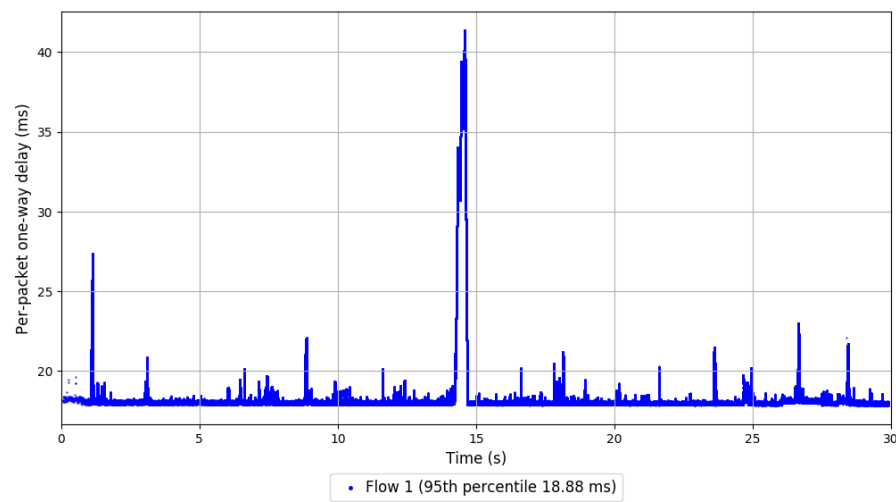
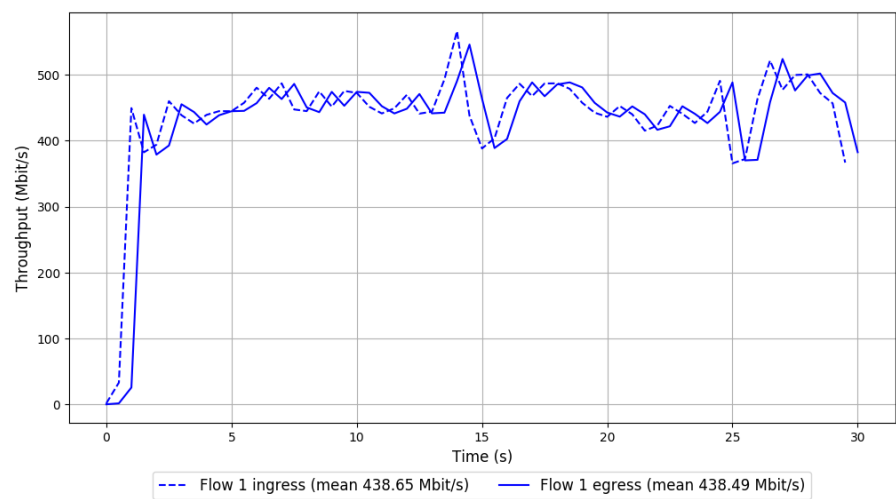


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-09 22:43:35
End at: 2018-07-09 22:44:05
Local clock offset: 0.72 ms
Remote clock offset: -0.391 ms

Below is generated by plot.py at 2018-07-10 02:05:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 438.49 Mbit/s
95th percentile per-packet one-way delay: 18.880 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 438.49 Mbit/s
95th percentile per-packet one-way delay: 18.880 ms
Loss rate: 0.04%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-07-09 23:08:59

End at: 2018-07-09 23:09:29

Local clock offset: 0.844 ms

Remote clock offset: 1.903 ms

Below is generated by plot.py at 2018-07-10 02:05:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 445.80 Mbit/s

95th percentile per-packet one-way delay: 19.193 ms

Loss rate: 0.36%

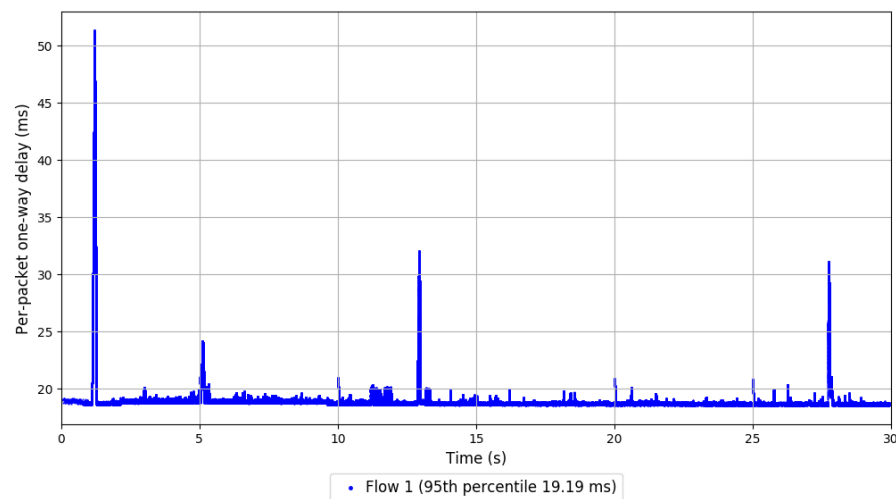
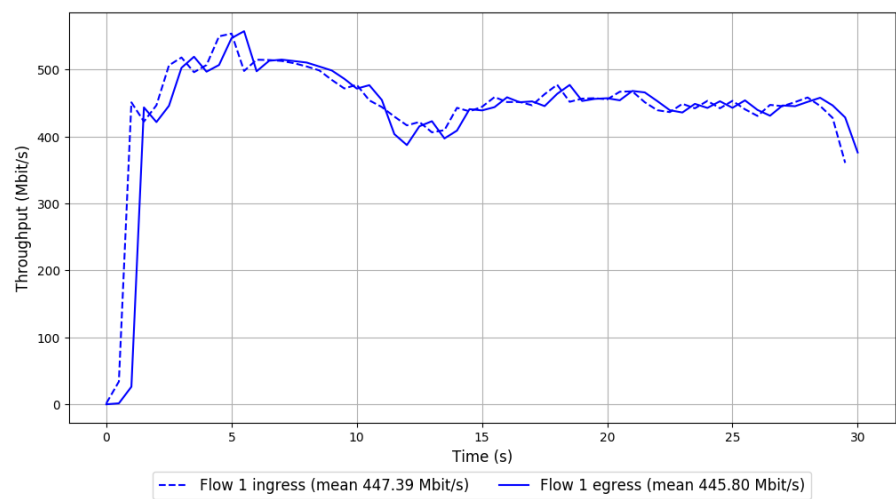
-- Flow 1:

Average throughput: 445.80 Mbit/s

95th percentile per-packet one-way delay: 19.193 ms

Loss rate: 0.36%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-07-09 23:34:17

End at: 2018-07-09 23:34:47

Local clock offset: 1.02 ms

Remote clock offset: 4.37 ms

Below is generated by plot.py at 2018-07-10 02:06:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 414.86 Mbit/s

95th percentile per-packet one-way delay: 19.702 ms

Loss rate: 0.24%

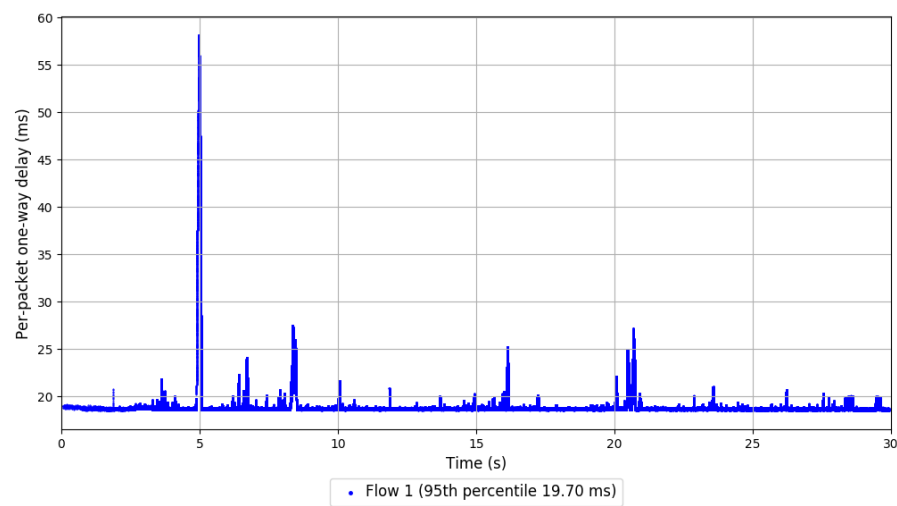
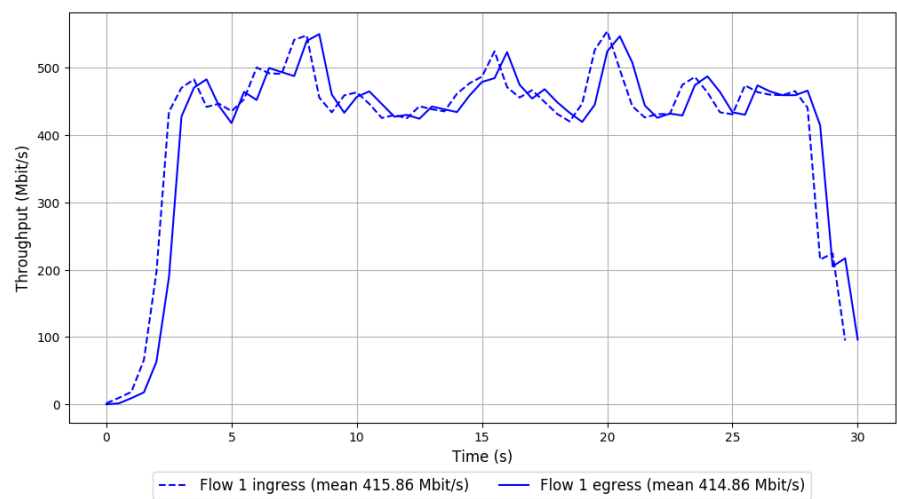
-- Flow 1:

Average throughput: 414.86 Mbit/s

95th percentile per-packet one-way delay: 19.702 ms

Loss rate: 0.24%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-07-09 23:59:37

End at: 2018-07-10 00:00:07

Local clock offset: 0.44 ms

Remote clock offset: 3.702 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 447.12 Mbit/s

95th percentile per-packet one-way delay: 20.148 ms

Loss rate: 0.00%

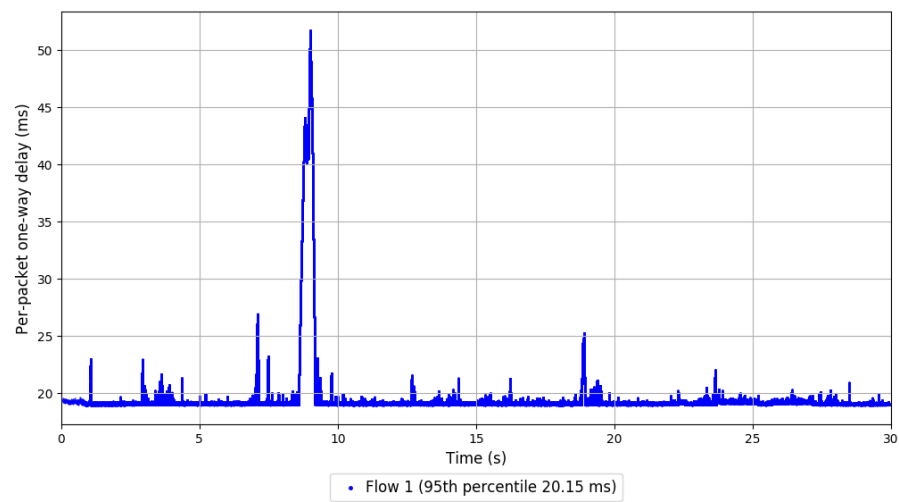
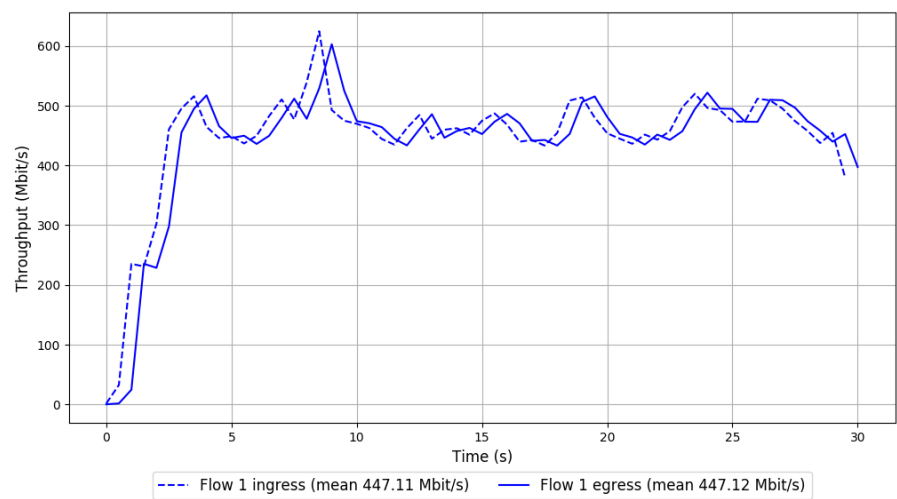
-- Flow 1:

Average throughput: 447.12 Mbit/s

95th percentile per-packet one-way delay: 20.148 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-07-09 20:01:30

End at: 2018-07-09 20:02:00

Local clock offset: 0.501 ms

Remote clock offset: 2.242 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.00%

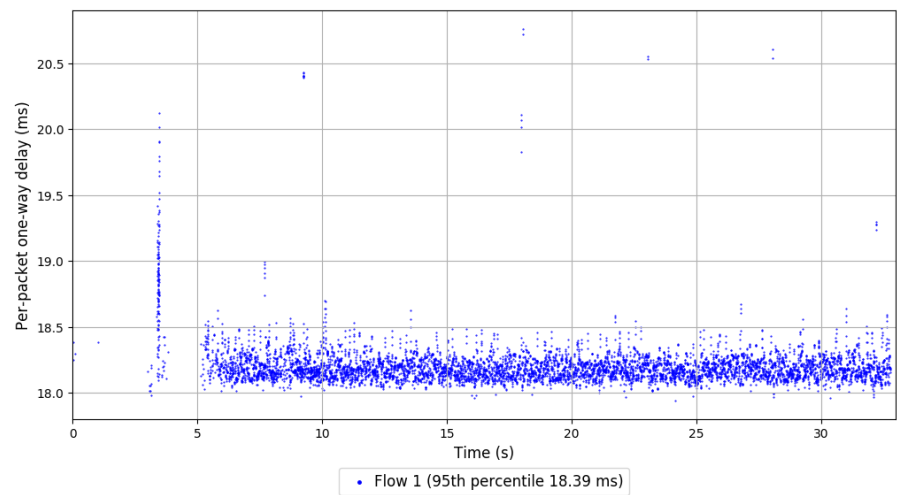
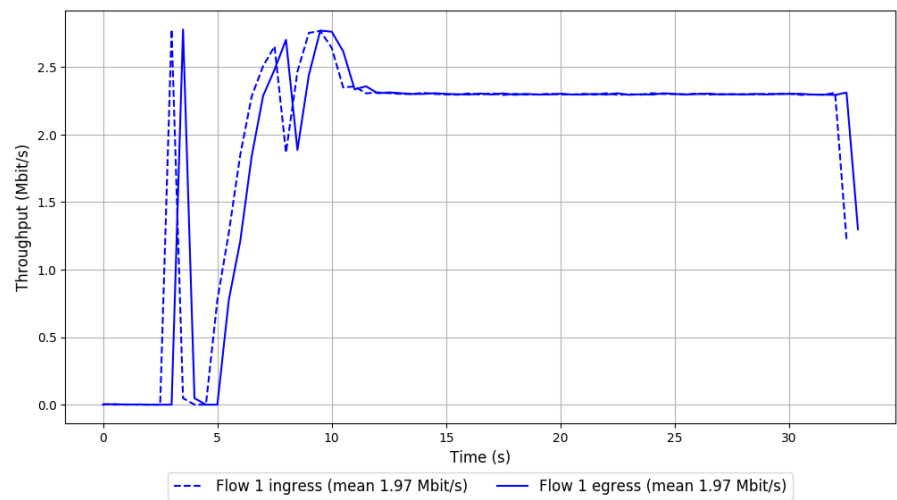
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 18.389 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-09 20:27:12

End at: 2018-07-09 20:27:42

Local clock offset: 0.869 ms

Remote clock offset: 2.781 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.415 ms

Loss rate: 0.00%

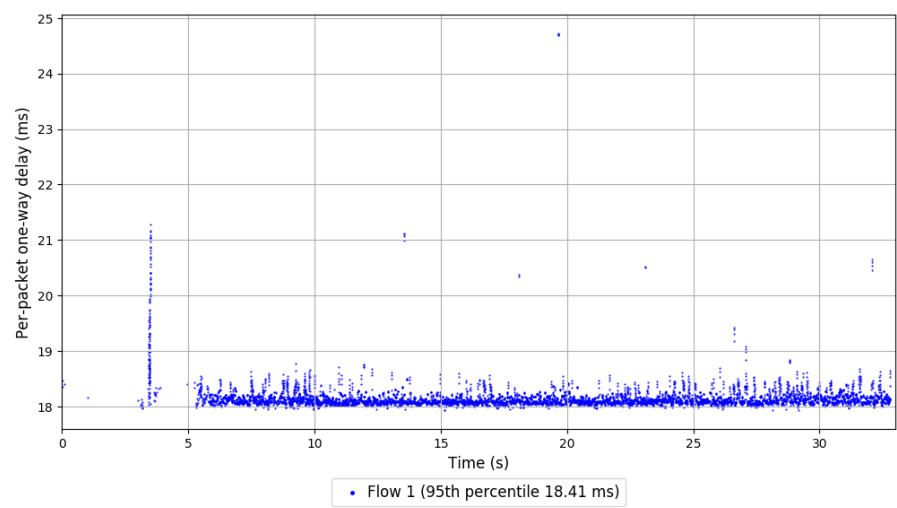
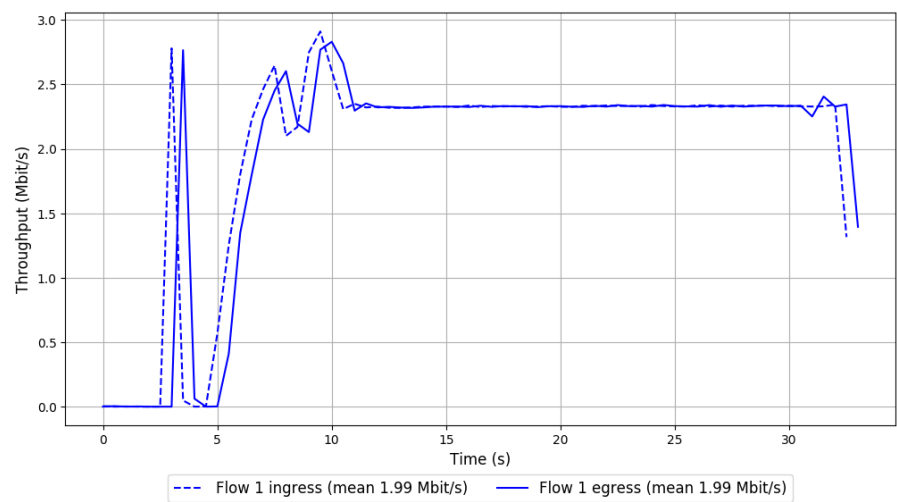
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 18.415 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-07-09 20:52:32

End at: 2018-07-09 20:53:02

Local clock offset: 1.098 ms

Remote clock offset: 1.741 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 17.877 ms

Loss rate: 0.03%

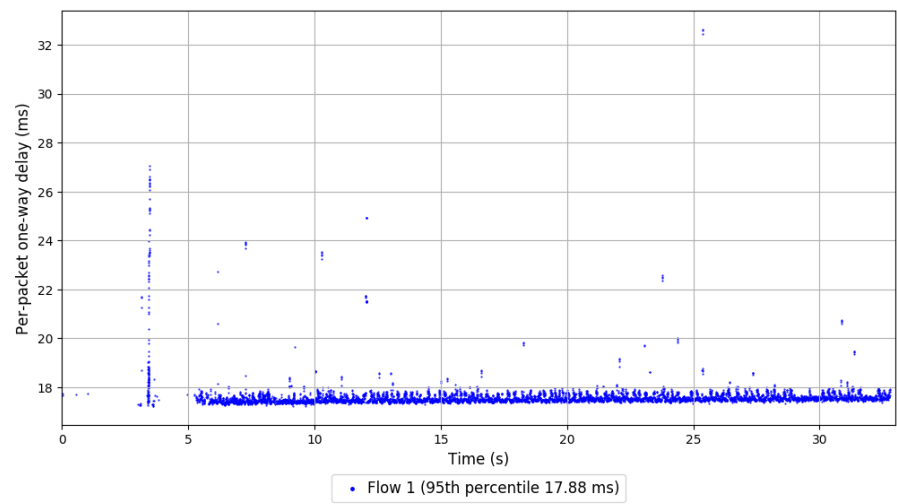
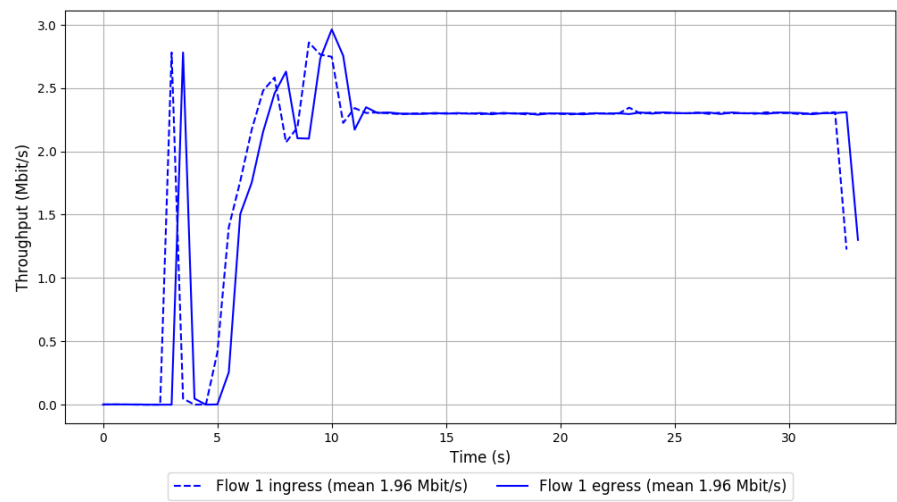
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 17.877 ms

Loss rate: 0.03%

Run 3: Report of WebRTC media — Data Link

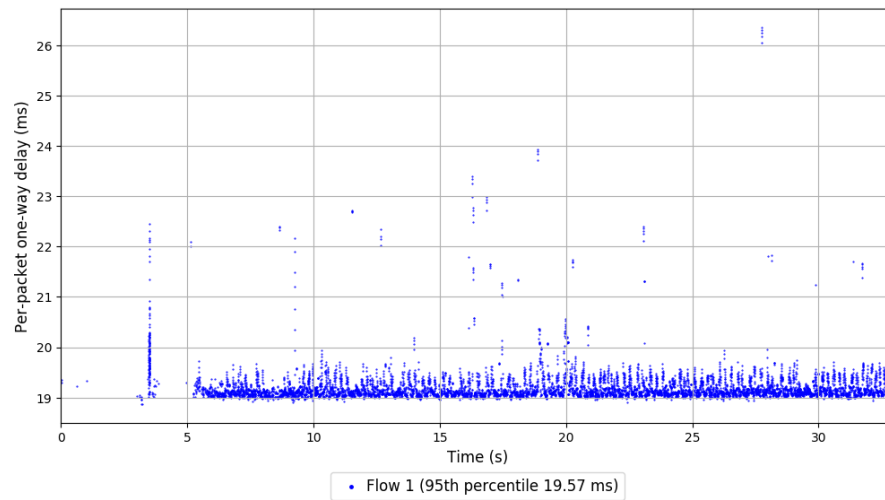
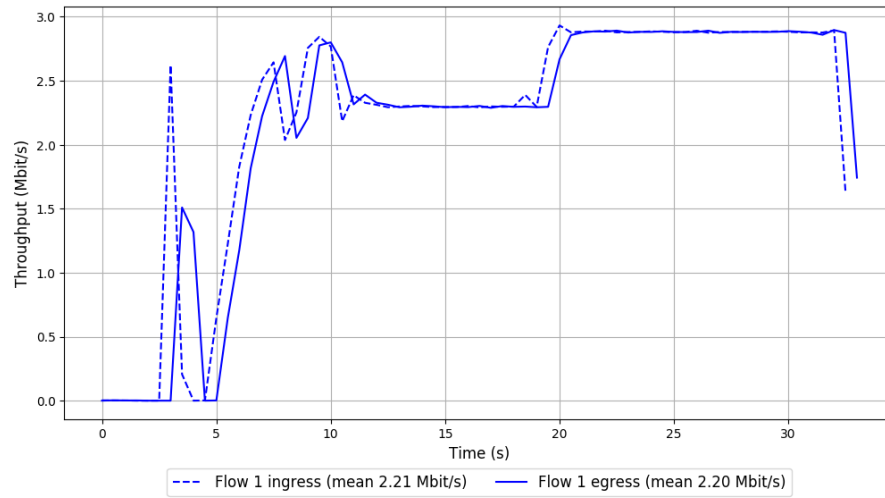


Run 4: Statistics of WebRTC media

Start at: 2018-07-09 21:17:51
End at: 2018-07-09 21:18:21
Local clock offset: 0.882 ms
Remote clock offset: -1.351 ms

Below is generated by plot.py at 2018-07-10 02:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 19.571 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 2.20 Mbit/s
95th percentile per-packet one-way delay: 19.571 ms
Loss rate: 0.17%

Run 4: Report of WebRTC media — Data Link

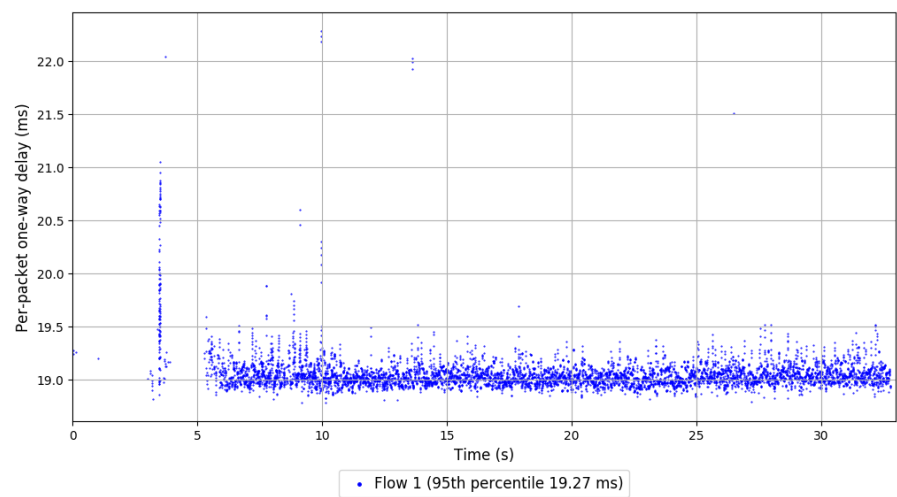
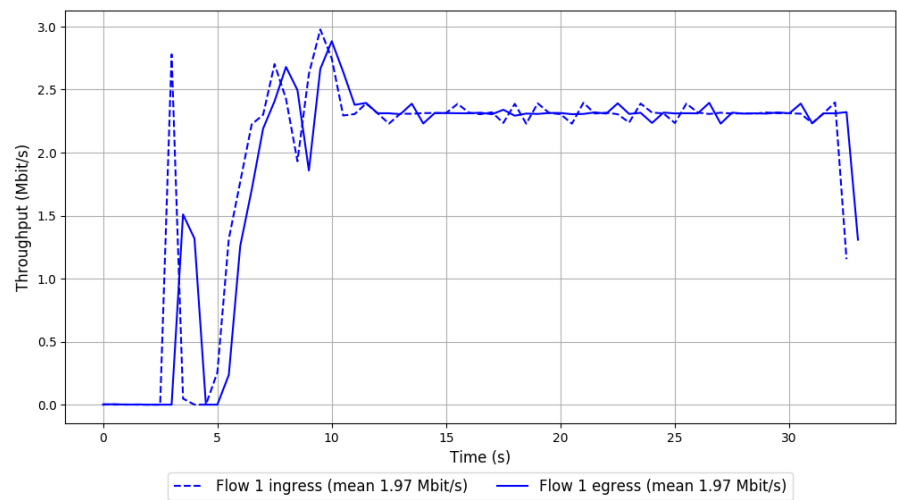


Run 5: Statistics of WebRTC media

Start at: 2018-07-09 21:43:31
End at: 2018-07-09 21:44:01
Local clock offset: 1.265 ms
Remote clock offset: -0.523 ms

Below is generated by plot.py at 2018-07-10 02:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 19.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 19.265 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

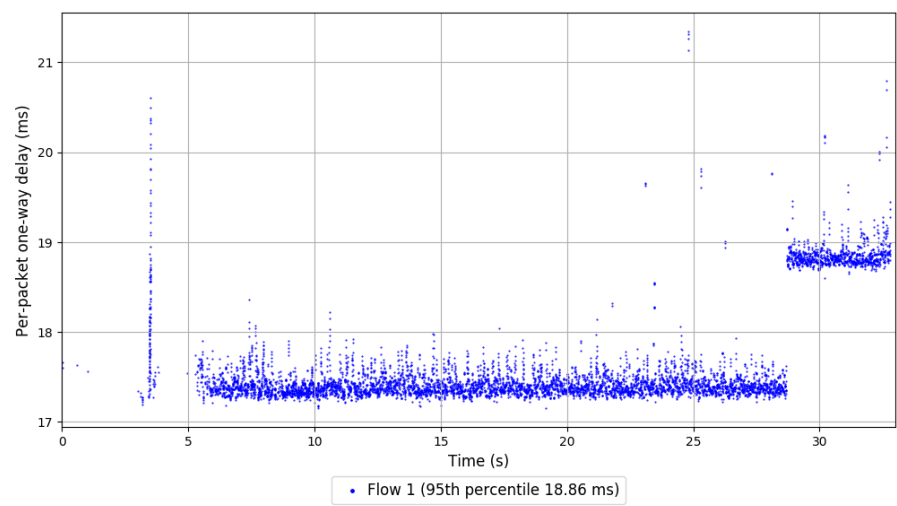
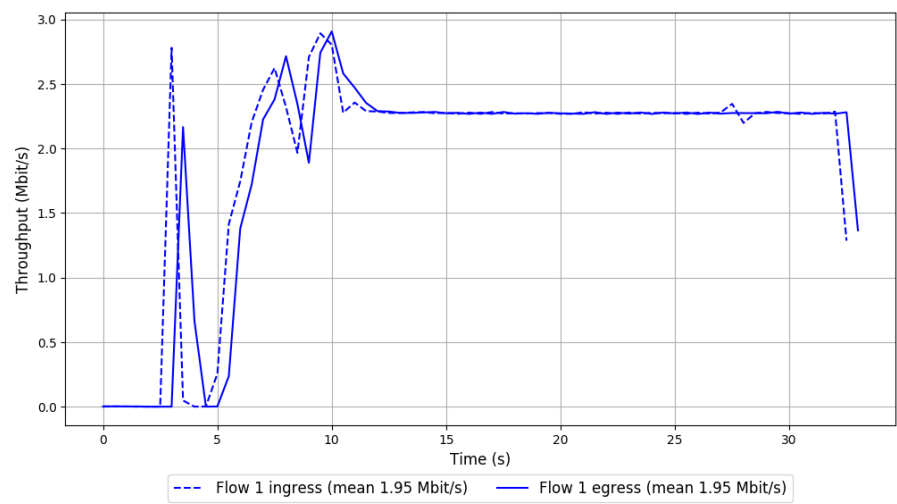


Run 6: Statistics of WebRTC media

Start at: 2018-07-09 22:08:59
End at: 2018-07-09 22:09:29
Local clock offset: 1.286 ms
Remote clock offset: -2.191 ms

Below is generated by plot.py at 2018-07-10 02:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 18.865 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 18.865 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

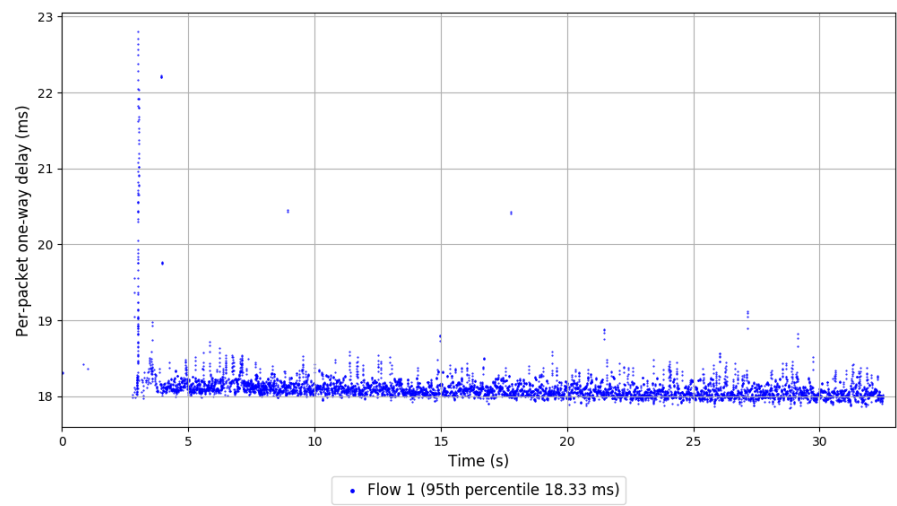
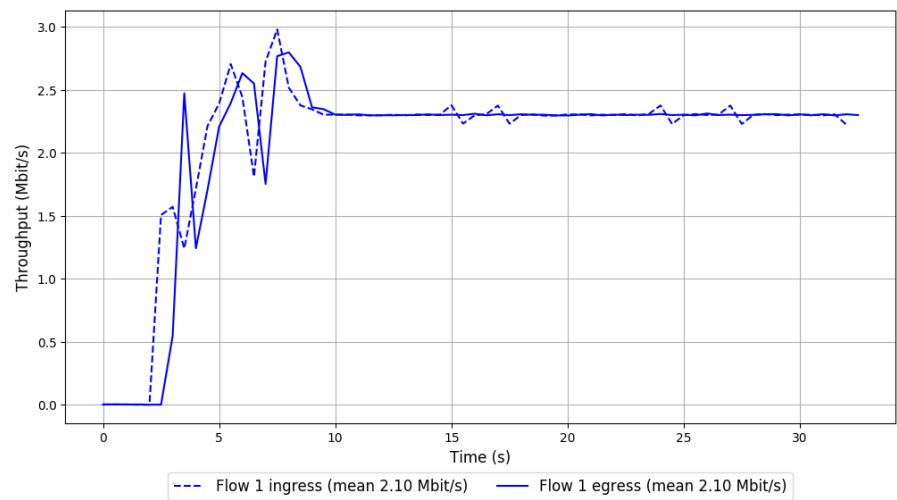


Run 7: Statistics of WebRTC media

Start at: 2018-07-09 22:34:30
End at: 2018-07-09 22:35:00
Local clock offset: 0.728 ms
Remote clock offset: -2.118 ms

Below is generated by plot.py at 2018-07-10 02:06:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 18.331 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 18.331 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-07-09 23:00:07

End at: 2018-07-09 23:00:37

Local clock offset: 0.761 ms

Remote clock offset: 0.928 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 18.488 ms

Loss rate: 0.00%

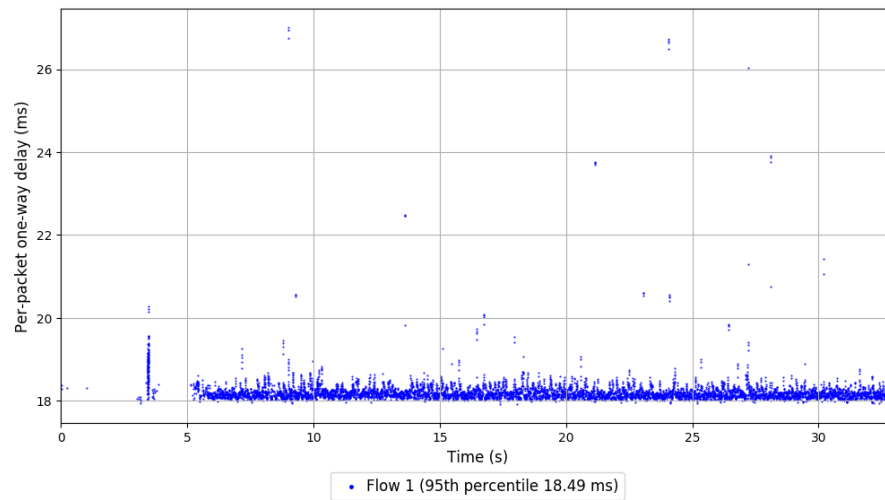
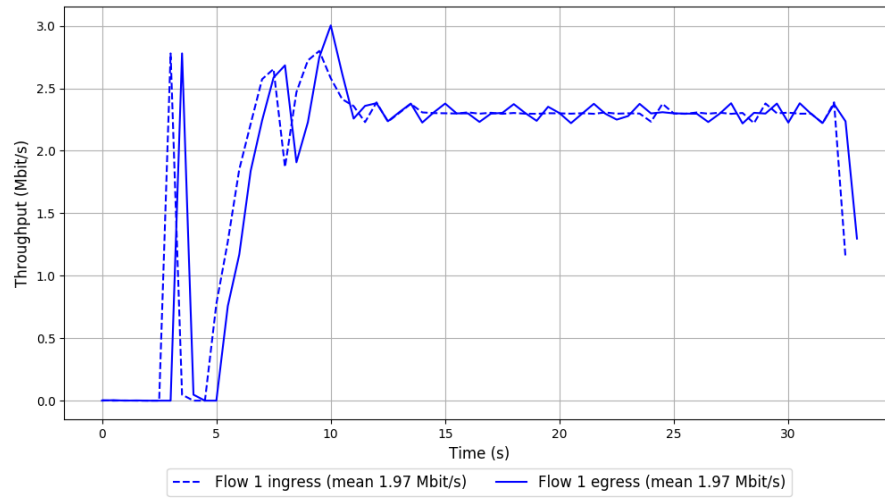
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 18.488 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-07-09 23:25:08

End at: 2018-07-09 23:25:38

Local clock offset: 0.957 ms

Remote clock offset: 3.749 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 19.056 ms

Loss rate: 0.15%

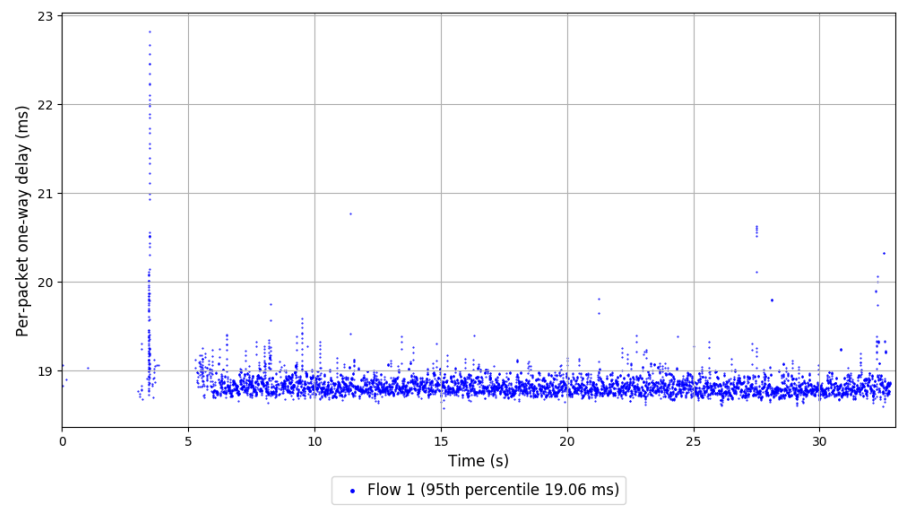
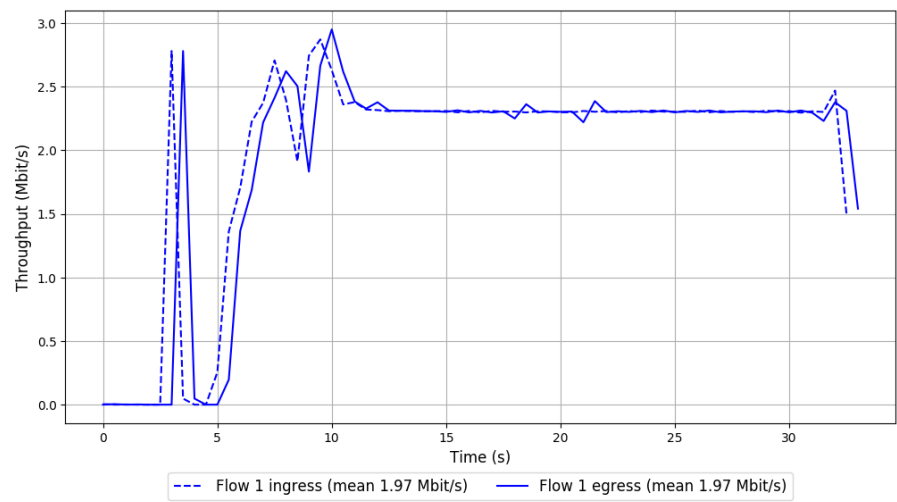
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 19.056 ms

Loss rate: 0.15%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-09 23:50:36

End at: 2018-07-09 23:51:06

Local clock offset: 0.714 ms

Remote clock offset: 3.669 ms

Below is generated by plot.py at 2018-07-10 02:06:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 18.940 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 18.940 ms

Loss rate: 0.04%

Run 10: Report of WebRTC media — Data Link

