

Pantheon Report

Generated at 2018-08-22 00:56:02 (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.

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

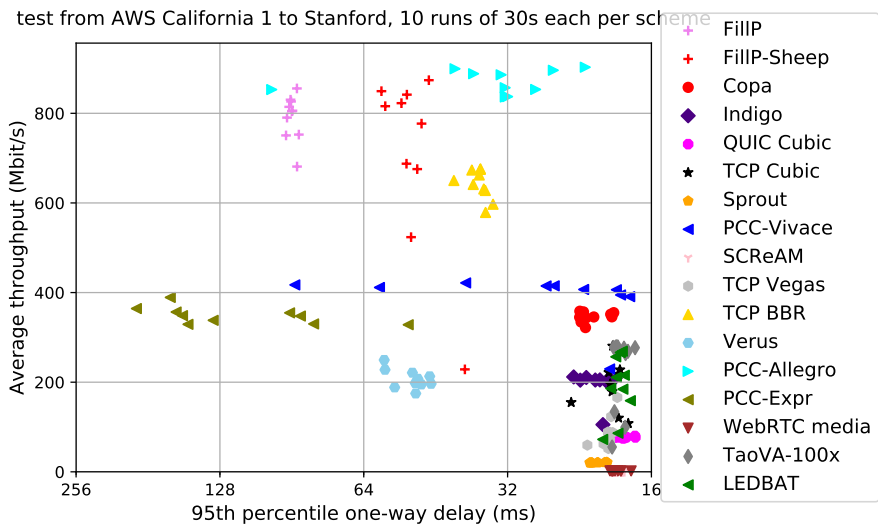
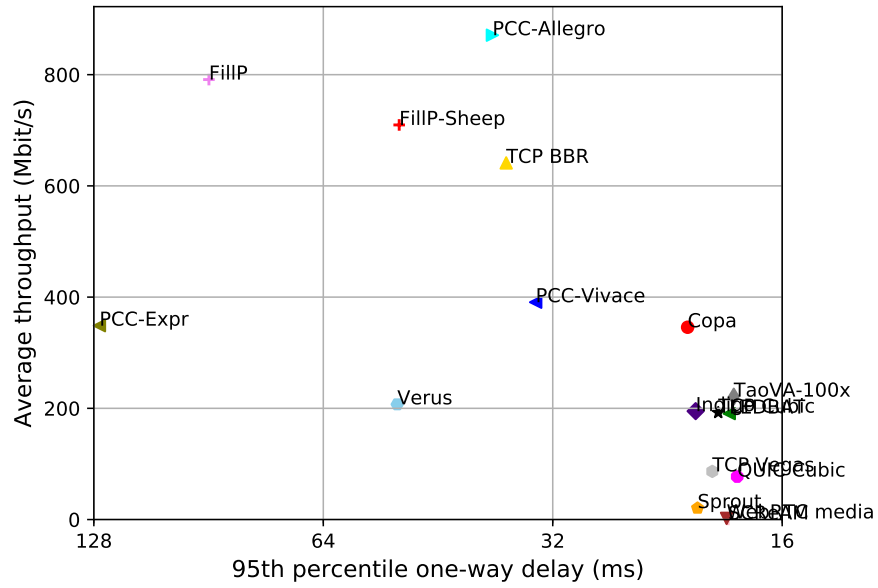
System info:

```
Linux 4.15.0-1017-aws
net.core.default_qdisc = fq_codel
net.core.rmem_default = 16777216
net.core.rmem_max = 33554432
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 87380 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304
```

Git summary:

```
branch: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
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	641.32	36.83	0.78
Copa	10	345.80	21.29	0.13
TCP Cubic	10	192.24	19.41	0.08
FillP	10	791.18	90.41	4.30
FillP-Sheep	10	709.59	50.89	5.39
Indigo	10	194.95	20.78	0.12
LEDBAT	10	190.57	18.78	0.02
PCC-Allegro	10	870.98	38.40	0.90
PCC-Expr	10	348.63	125.88	2.10
QUIC Cubic	10	77.29	18.33	0.06
SCReAM	10	0.21	18.84	0.02
Sprout	10	20.64	20.66	0.21
TaoVA-100x	10	221.00	18.52	0.07
TCP Vegas	10	86.59	19.76	0.23
Verus	10	207.18	51.19	20.88
PCC-Vivace	10	390.81	33.69	0.21
WebRTC media	10	2.08	18.93	0.17

Run 1: Statistics of TCP BBR

Start at: 2018-08-21 19:17:26

End at: 2018-08-21 19:17:56

Local clock offset: 0.134 ms

Remote clock offset: 0.453 ms

Below is generated by plot.py at 2018-08-21 23:27:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 650.11 Mbit/s

95th percentile per-packet one-way delay: 41.452 ms

Loss rate: 0.50%

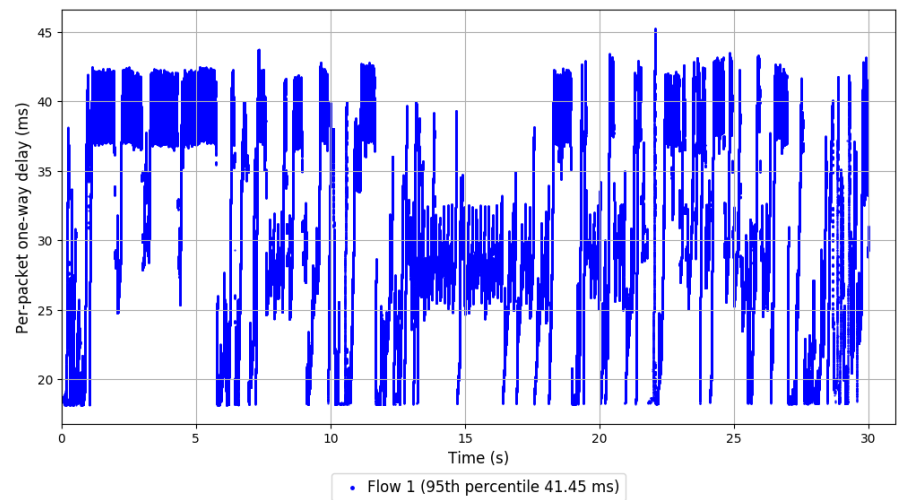
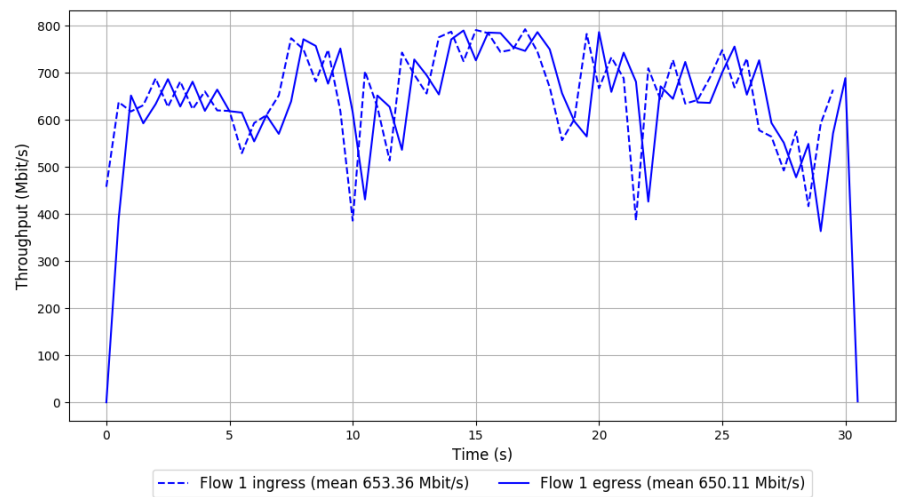
-- Flow 1:

Average throughput: 650.11 Mbit/s

95th percentile per-packet one-way delay: 41.452 ms

Loss rate: 0.50%

Run 1: Report of TCP BBR — Data Link

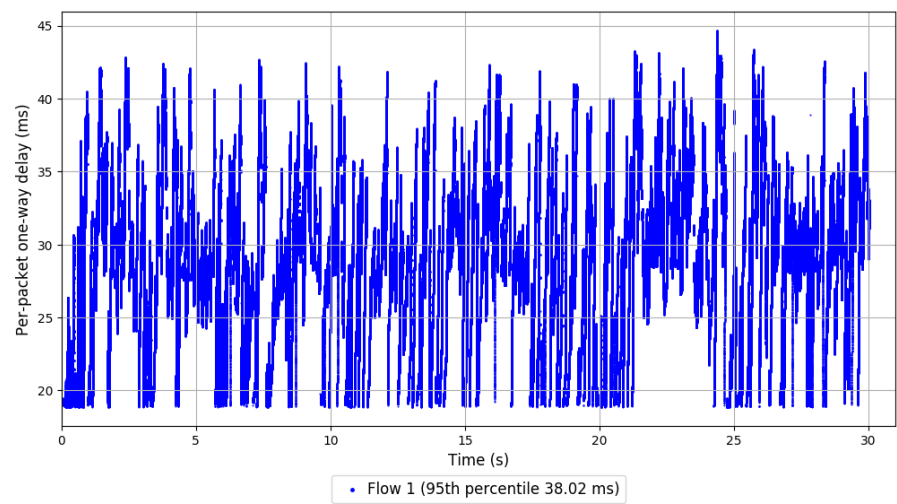
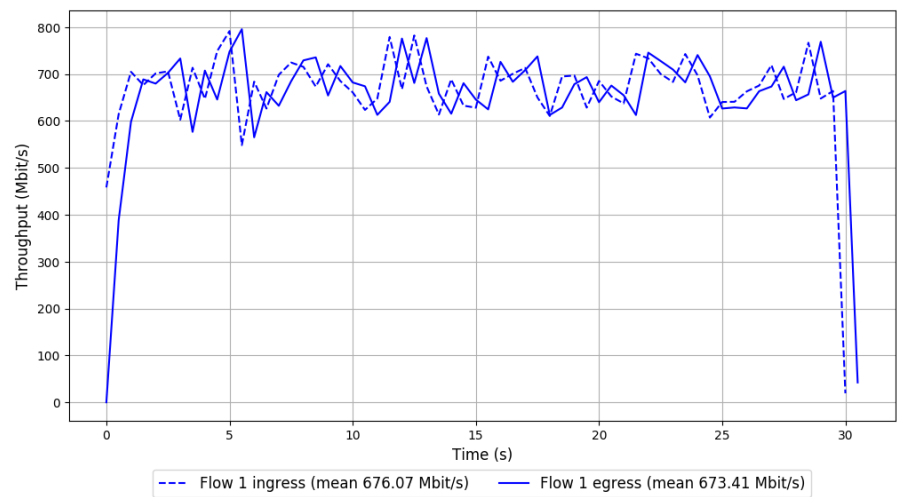


Run 2: Statistics of TCP BBR

Start at: 2018-08-21 19:42:45
End at: 2018-08-21 19:43:15
Local clock offset: 2.038 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-08-21 23:27:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 673.41 Mbit/s
95th percentile per-packet one-way delay: 38.019 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 673.41 Mbit/s
95th percentile per-packet one-way delay: 38.019 ms
Loss rate: 0.39%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-21 20:07:53

End at: 2018-08-21 20:08:23

Local clock offset: 2.878 ms

Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-08-21 23:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 641.27 Mbit/s

95th percentile per-packet one-way delay: 37.760 ms

Loss rate: 0.82%

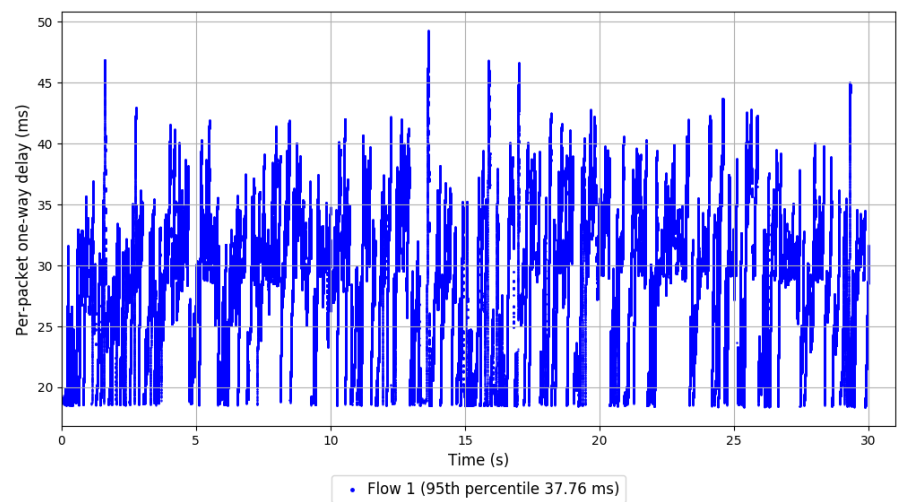
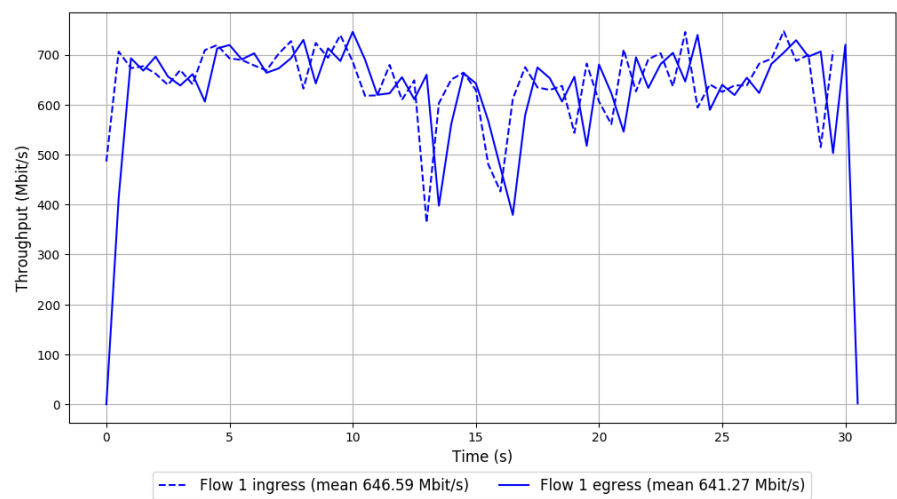
-- Flow 1:

Average throughput: 641.27 Mbit/s

95th percentile per-packet one-way delay: 37.760 ms

Loss rate: 0.82%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-21 20:33:10

End at: 2018-08-21 20:33:40

Local clock offset: 1.08 ms

Remote clock offset: 3.631 ms

Below is generated by plot.py at 2018-08-21 23:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 627.86 Mbit/s

95th percentile per-packet one-way delay: 35.621 ms

Loss rate: 0.92%

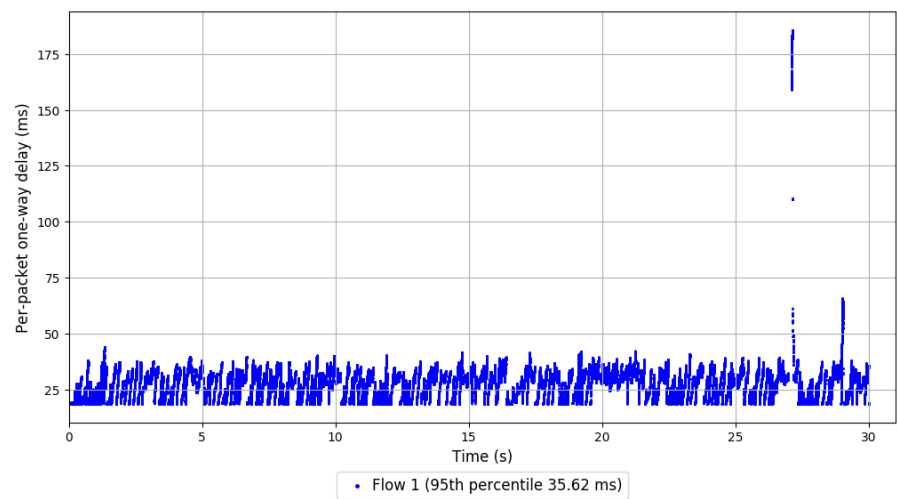
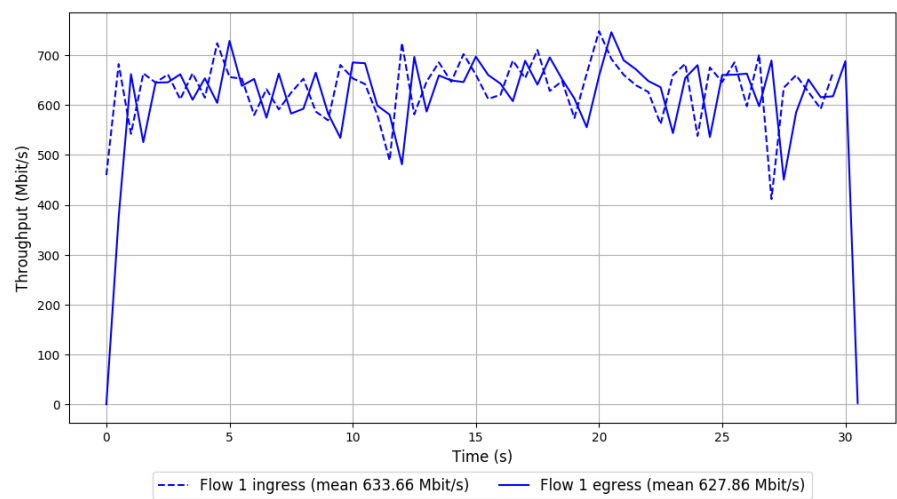
-- Flow 1:

Average throughput: 627.86 Mbit/s

95th percentile per-packet one-way delay: 35.621 ms

Loss rate: 0.92%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-21 20:57:57

End at: 2018-08-21 20:58:27

Local clock offset: 0.737 ms

Remote clock offset: 3.329 ms

Below is generated by plot.py at 2018-08-21 23:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 578.79 Mbit/s

95th percentile per-packet one-way delay: 35.585 ms

Loss rate: 1.58%

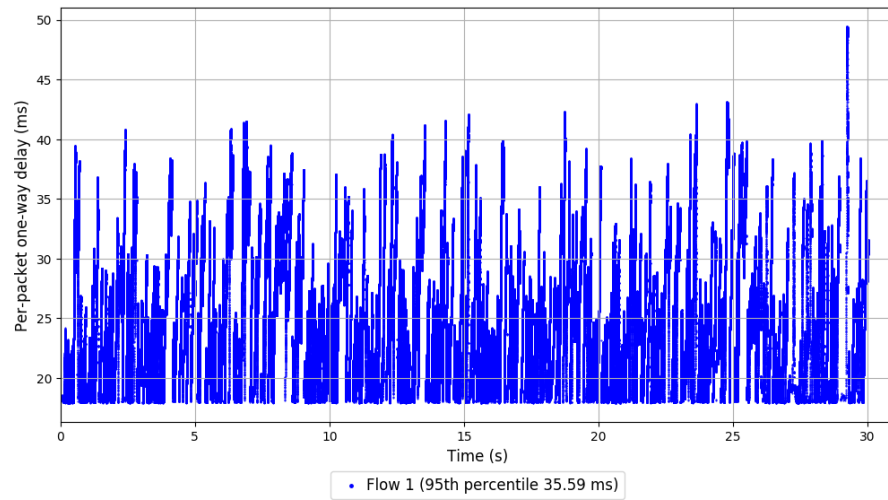
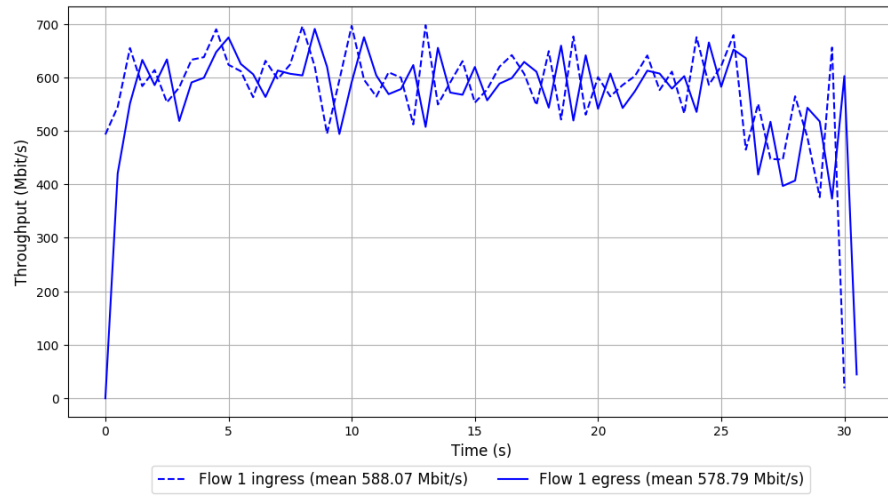
-- Flow 1:

Average throughput: 578.79 Mbit/s

95th percentile per-packet one-way delay: 35.585 ms

Loss rate: 1.58%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-21 21:23:01

End at: 2018-08-21 21:23:31

Local clock offset: 1.278 ms

Remote clock offset: 1.485 ms

Below is generated by plot.py at 2018-08-21 23:27:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 674.91 Mbit/s

95th percentile per-packet one-way delay: 36.503 ms

Loss rate: 0.69%

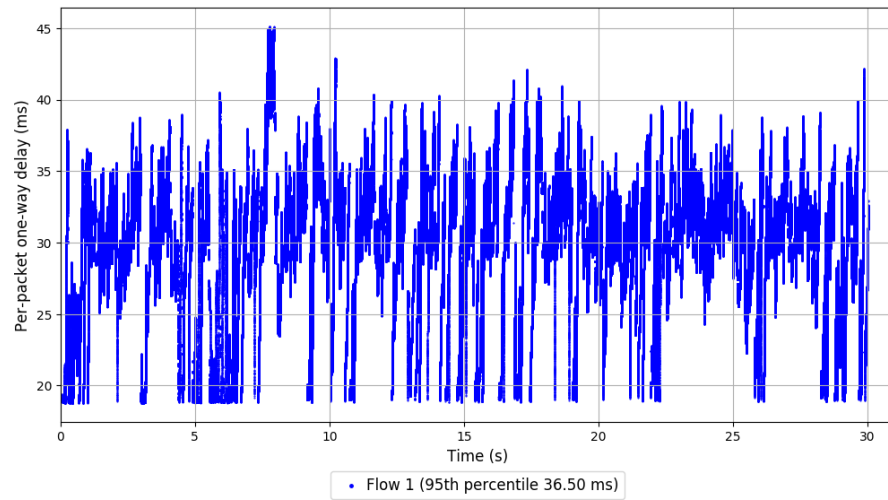
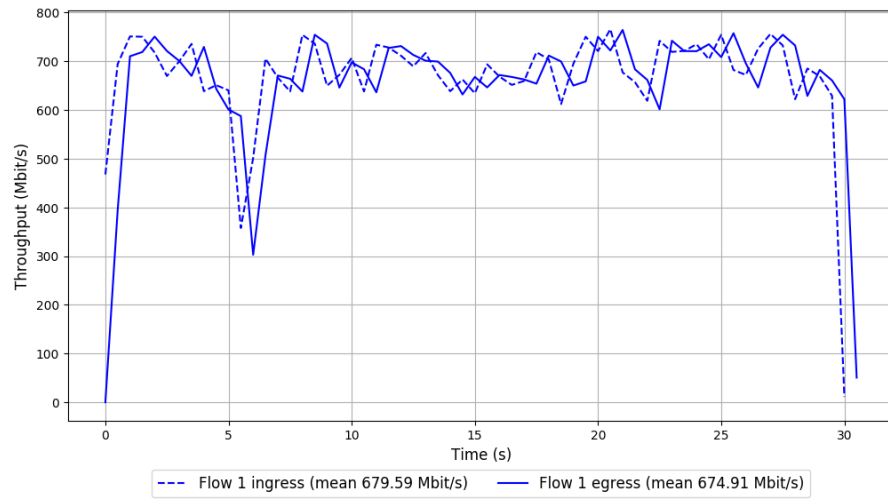
-- Flow 1:

Average throughput: 674.91 Mbit/s

95th percentile per-packet one-way delay: 36.503 ms

Loss rate: 0.69%

Run 6: Report of TCP BBR — Data Link

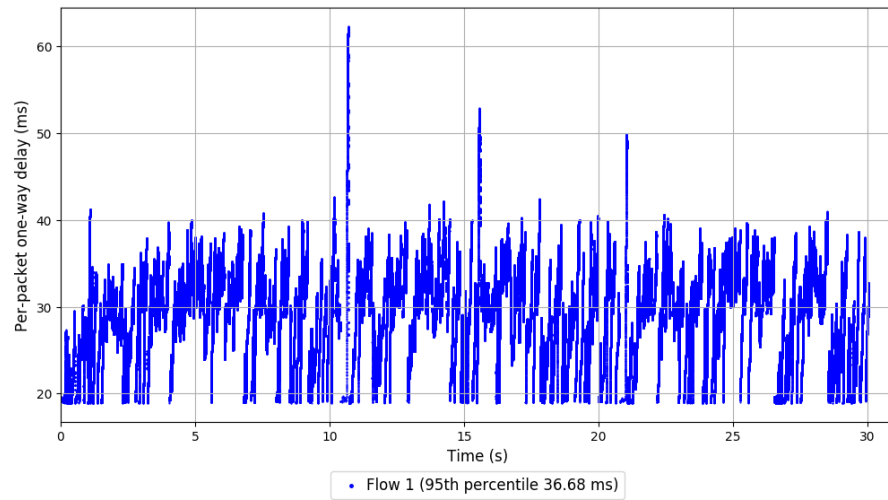
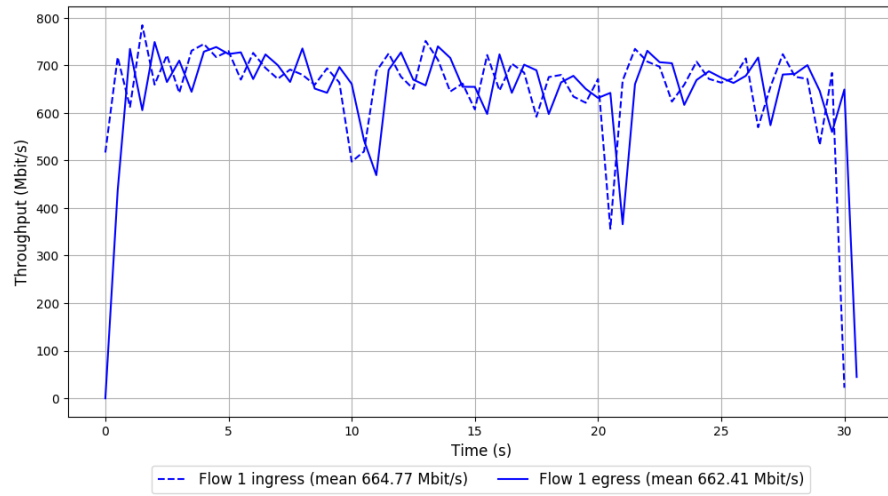


Run 7: Statistics of TCP BBR

Start at: 2018-08-21 21:48:19
End at: 2018-08-21 21:48:49
Local clock offset: 0.471 ms
Remote clock offset: -0.835 ms

Below is generated by plot.py at 2018-08-21 23:27:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 662.41 Mbit/s
95th percentile per-packet one-way delay: 36.682 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 662.41 Mbit/s
95th percentile per-packet one-way delay: 36.682 ms
Loss rate: 0.36%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-21 22:13:28

End at: 2018-08-21 22:13:58

Local clock offset: -1.316 ms

Remote clock offset: 3.886 ms

Below is generated by plot.py at 2018-08-21 23:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 676.13 Mbit/s

95th percentile per-packet one-way delay: 36.474 ms

Loss rate: 0.68%

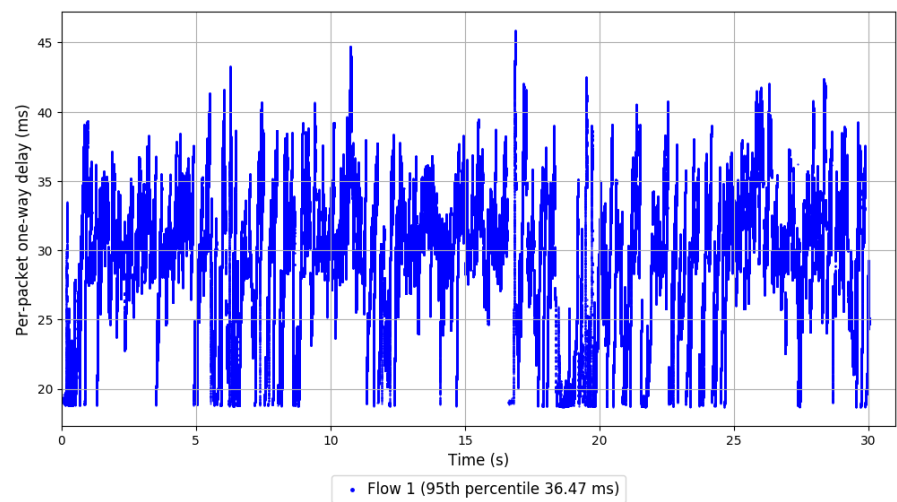
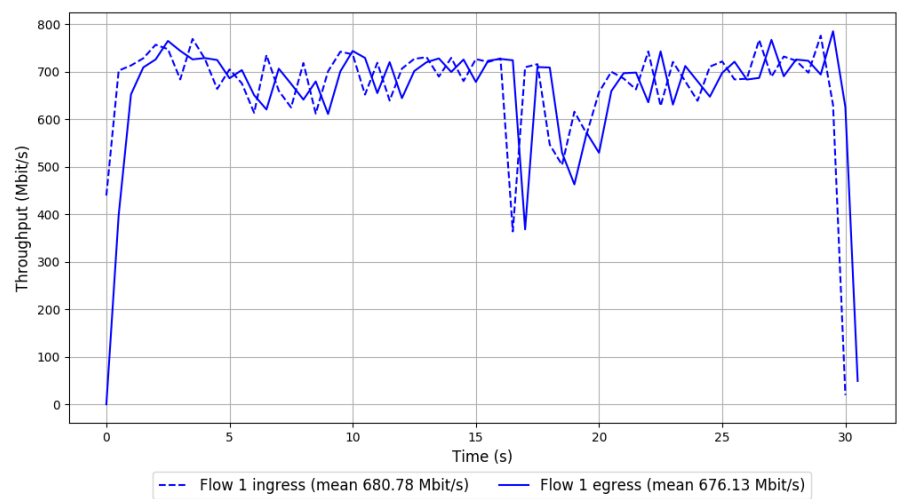
-- Flow 1:

Average throughput: 676.13 Mbit/s

95th percentile per-packet one-way delay: 36.474 ms

Loss rate: 0.68%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-21 22:38:53

End at: 2018-08-21 22:39:23

Local clock offset: -2.719 ms

Remote clock offset: 0.669 ms

Below is generated by plot.py at 2018-08-21 23:34:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 597.17 Mbit/s

95th percentile per-packet one-way delay: 34.322 ms

Loss rate: 1.11%

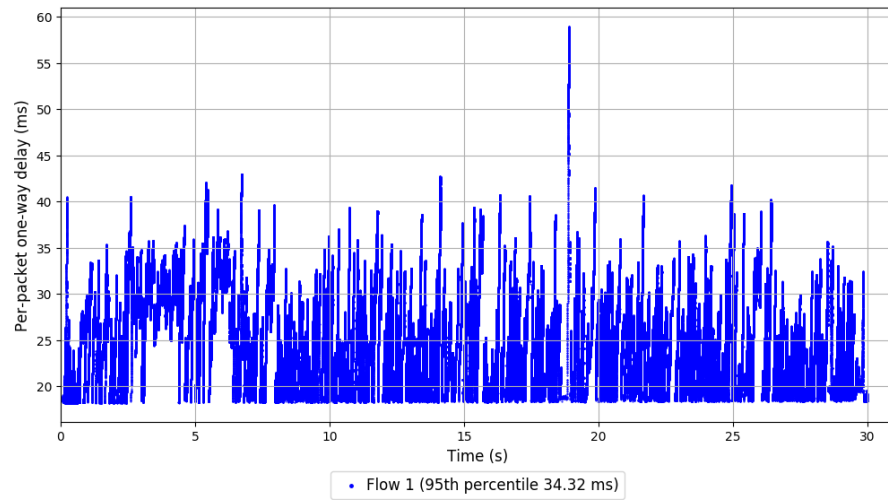
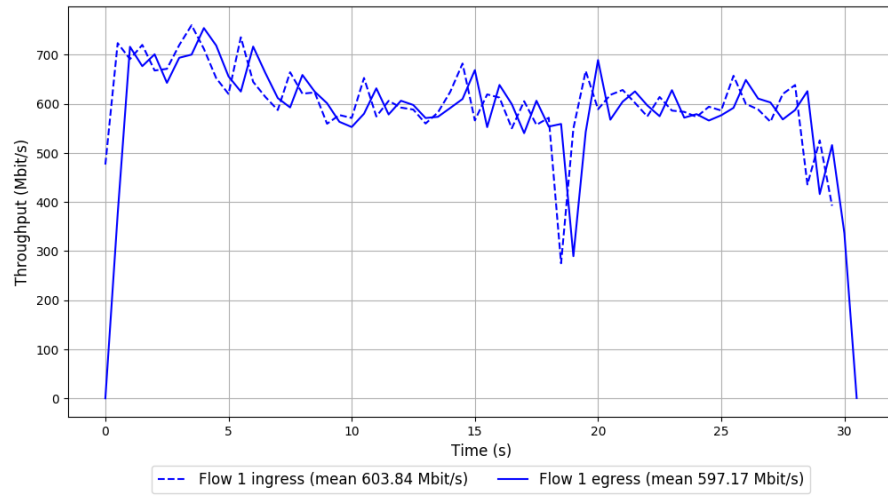
-- Flow 1:

Average throughput: 597.17 Mbit/s

95th percentile per-packet one-way delay: 34.322 ms

Loss rate: 1.11%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-21 23:04:02

End at: 2018-08-21 23:04:32

Local clock offset: 0.665 ms

Remote clock offset: 1.264 ms

Below is generated by plot.py at 2018-08-21 23:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 631.13 Mbit/s

95th percentile per-packet one-way delay: 35.892 ms

Loss rate: 0.76%

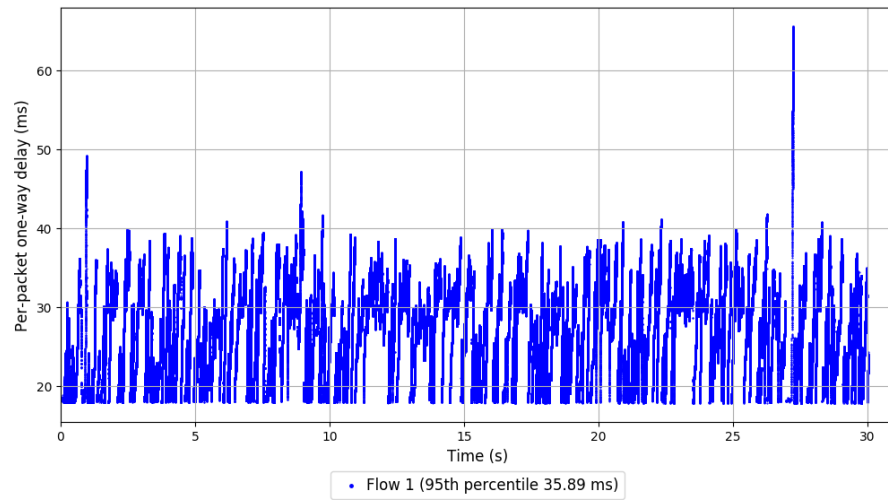
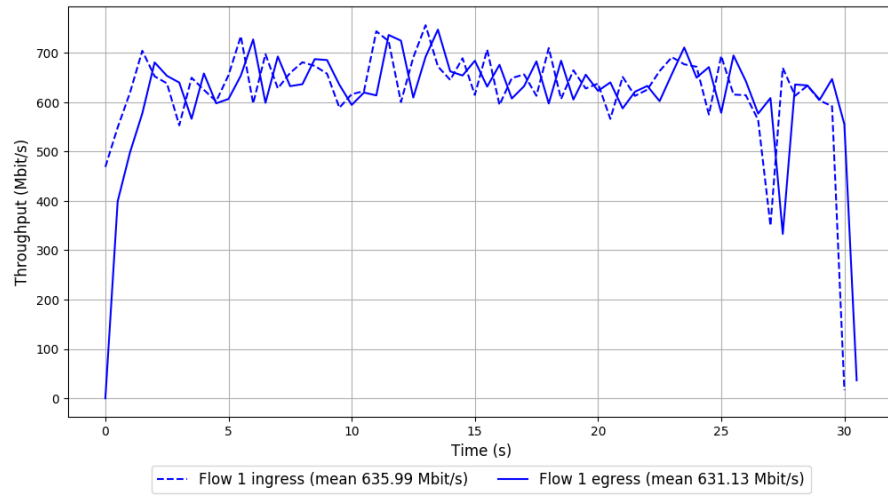
-- Flow 1:

Average throughput: 631.13 Mbit/s

95th percentile per-packet one-way delay: 35.892 ms

Loss rate: 0.76%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-21 19:04:06

End at: 2018-08-21 19:04:36

Local clock offset: -2.051 ms

Remote clock offset: 2.606 ms

Below is generated by plot.py at 2018-08-21 23:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.88 Mbit/s

95th percentile per-packet one-way delay: 22.198 ms

Loss rate: 0.10%

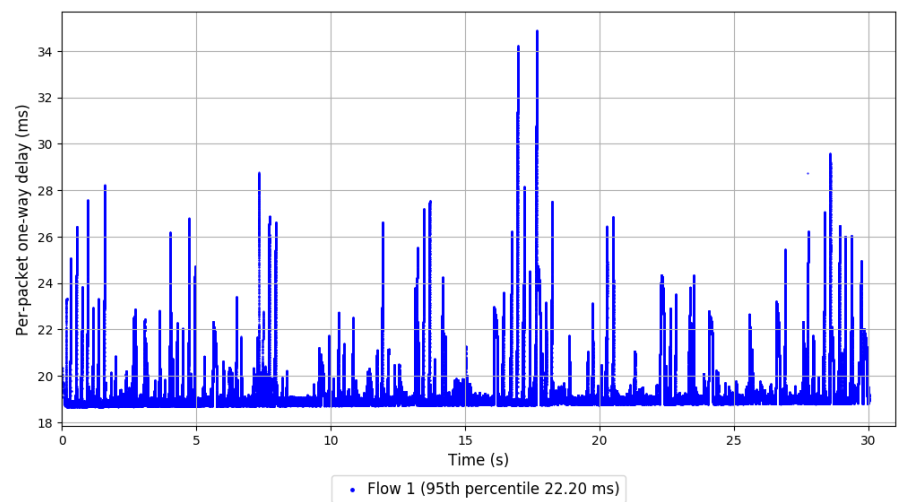
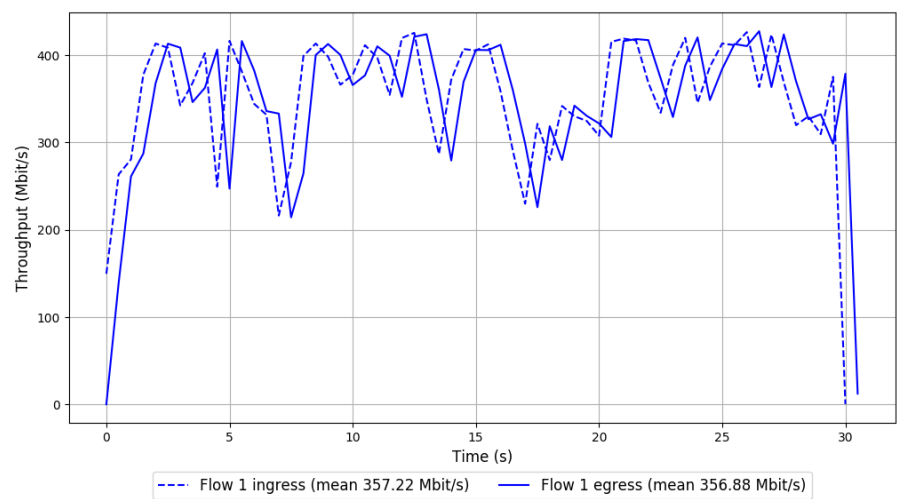
-- Flow 1:

Average throughput: 356.88 Mbit/s

95th percentile per-packet one-way delay: 22.198 ms

Loss rate: 0.10%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-21 19:29:31

End at: 2018-08-21 19:30:01

Local clock offset: 1.492 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-08-21 23:34:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.40 Mbit/s

95th percentile per-packet one-way delay: 22.456 ms

Loss rate: 0.29%

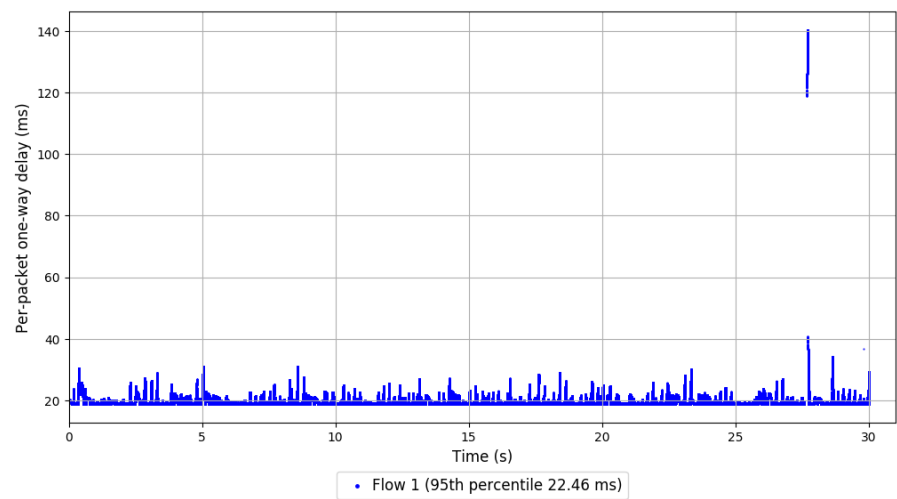
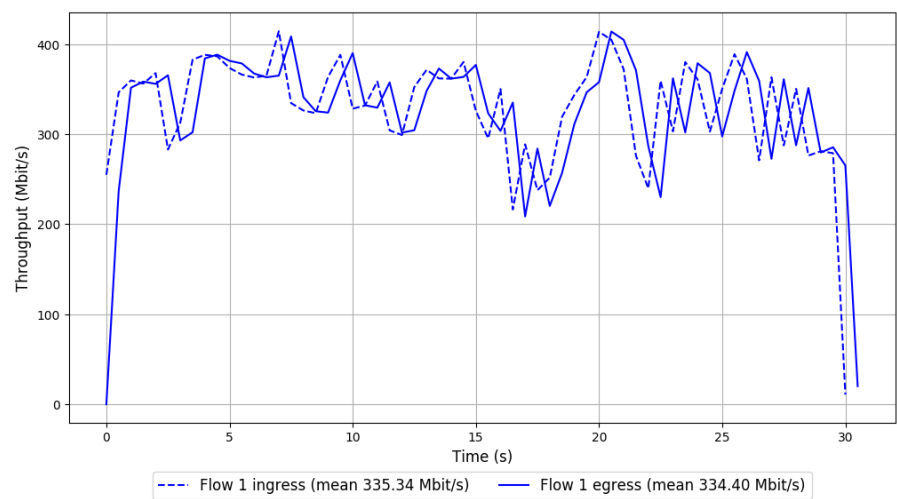
-- Flow 1:

Average throughput: 334.40 Mbit/s

95th percentile per-packet one-way delay: 22.456 ms

Loss rate: 0.29%

Run 2: Report of Copa — Data Link

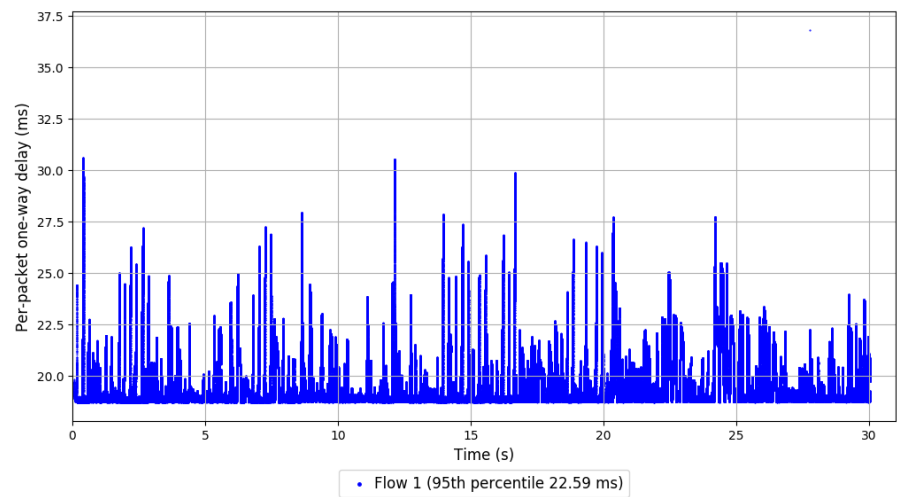
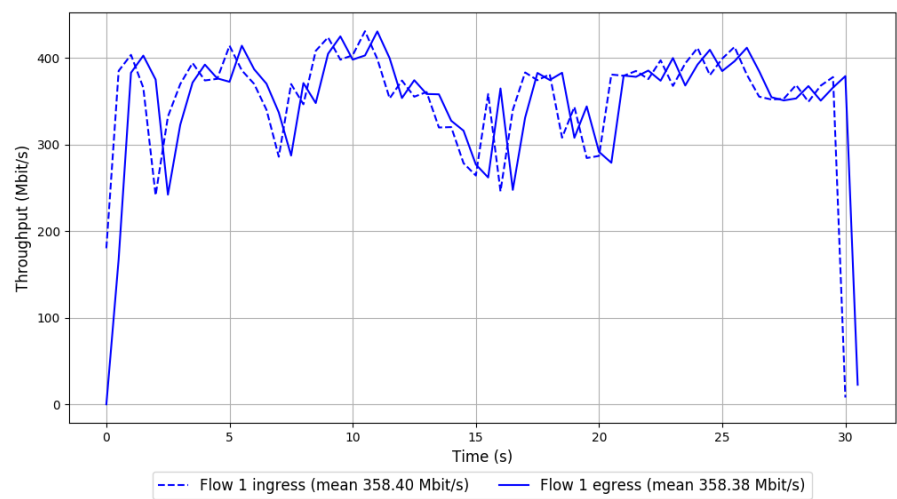


Run 3: Statistics of Copa

Start at: 2018-08-21 19:54:39
End at: 2018-08-21 19:55:09
Local clock offset: 2.324 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-08-21 23:35:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 358.38 Mbit/s
95th percentile per-packet one-way delay: 22.592 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 358.38 Mbit/s
95th percentile per-packet one-way delay: 22.592 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-21 20:19:53

End at: 2018-08-21 20:20:23

Local clock offset: 1.355 ms

Remote clock offset: 2.589 ms

Below is generated by plot.py at 2018-08-21 23:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.81 Mbit/s

95th percentile per-packet one-way delay: 19.359 ms

Loss rate: 0.16%

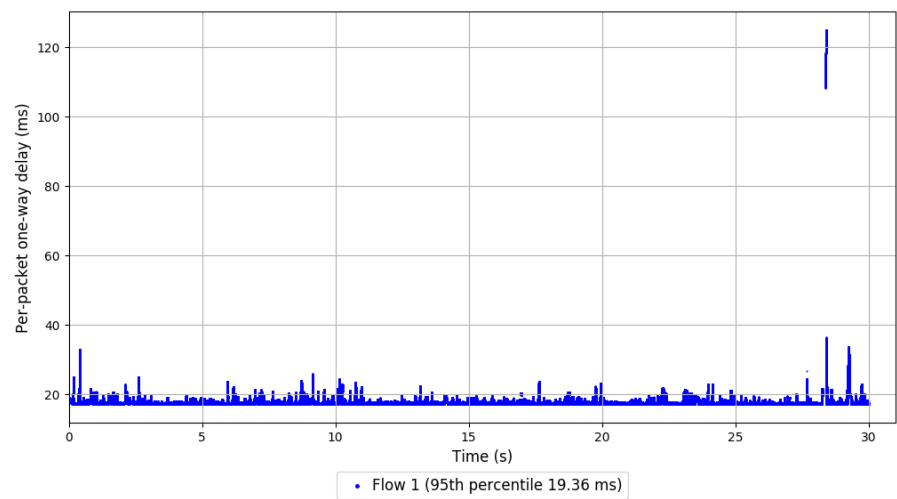
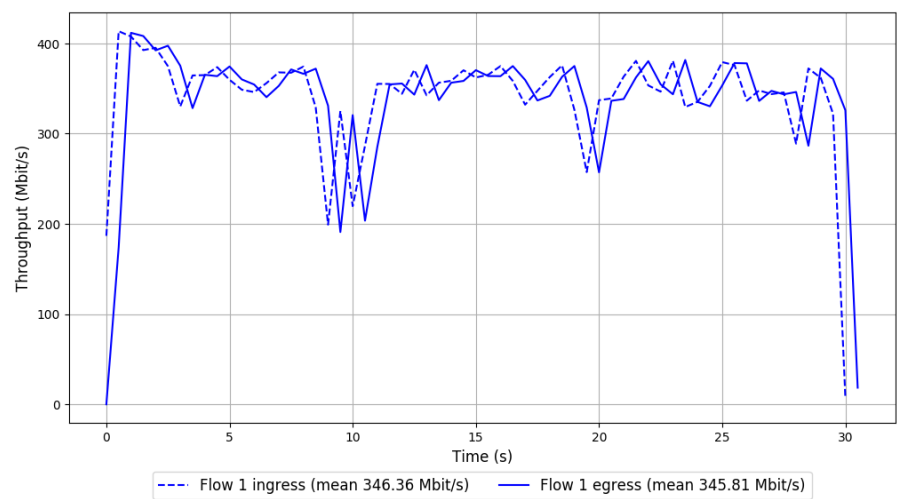
-- Flow 1:

Average throughput: 345.81 Mbit/s

95th percentile per-packet one-way delay: 19.359 ms

Loss rate: 0.16%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-21 20:44:46

End at: 2018-08-21 20:45:16

Local clock offset: 0.681 ms

Remote clock offset: 3.96 ms

Below is generated by plot.py at 2018-08-21 23:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.97 Mbit/s

95th percentile per-packet one-way delay: 22.611 ms

Loss rate: 0.00%

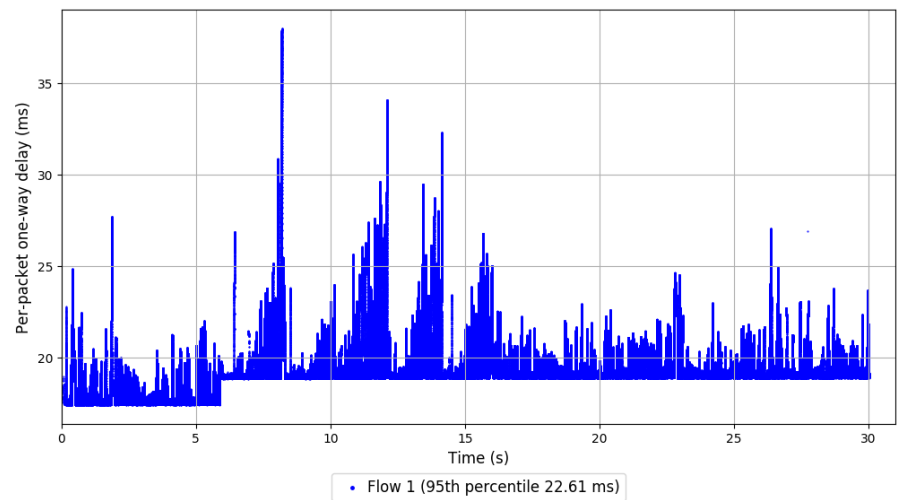
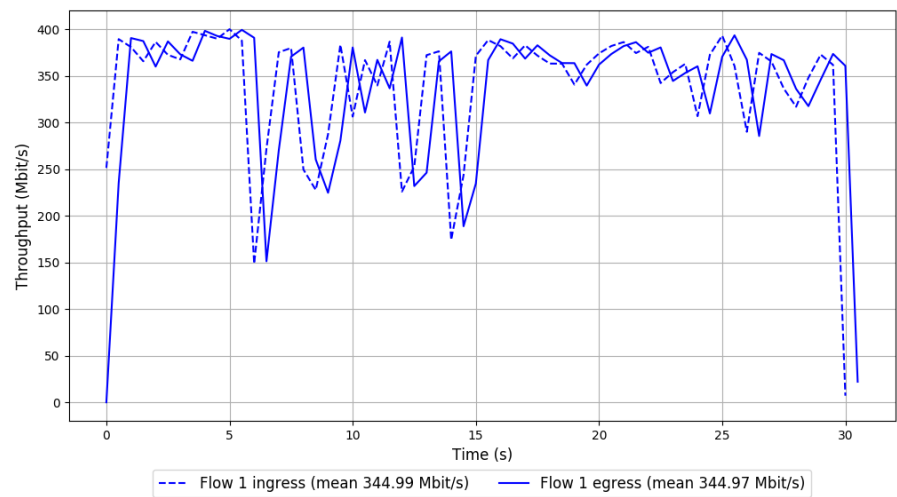
-- Flow 1:

Average throughput: 344.97 Mbit/s

95th percentile per-packet one-way delay: 22.611 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-21 21:09:51

End at: 2018-08-21 21:10:21

Local clock offset: 0.924 ms

Remote clock offset: 3.455 ms

Below is generated by plot.py at 2018-08-21 23:35:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.55 Mbit/s

95th percentile per-packet one-way delay: 21.121 ms

Loss rate: 0.17%

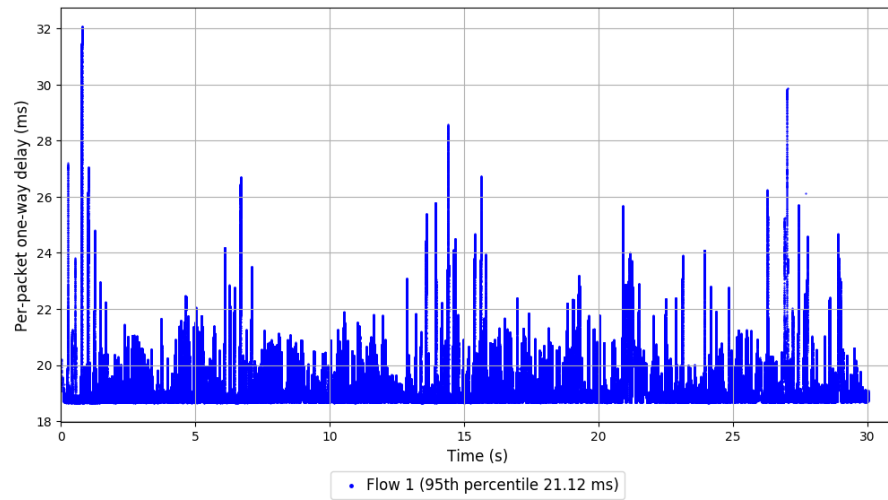
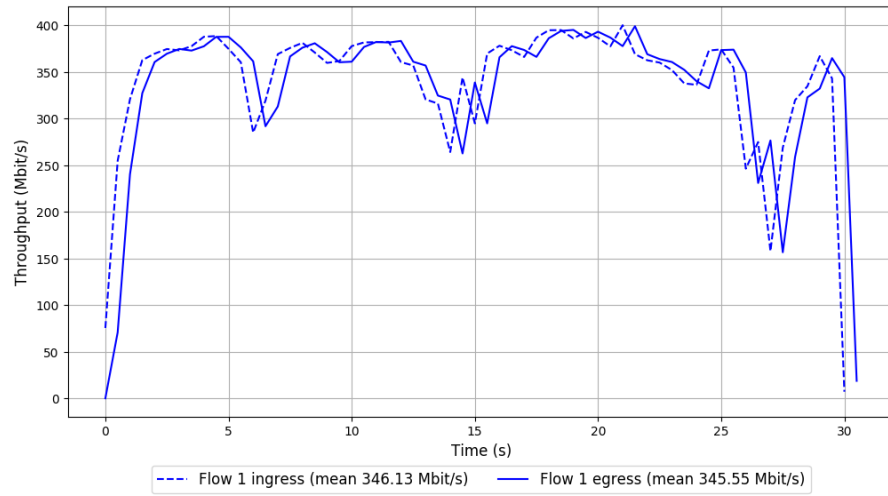
-- Flow 1:

Average throughput: 345.55 Mbit/s

95th percentile per-packet one-way delay: 21.121 ms

Loss rate: 0.17%

Run 6: Report of Copa — Data Link

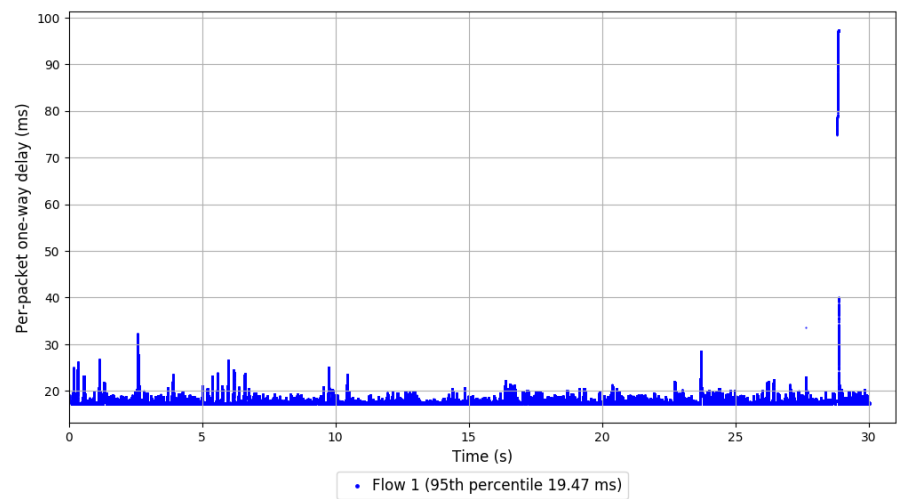
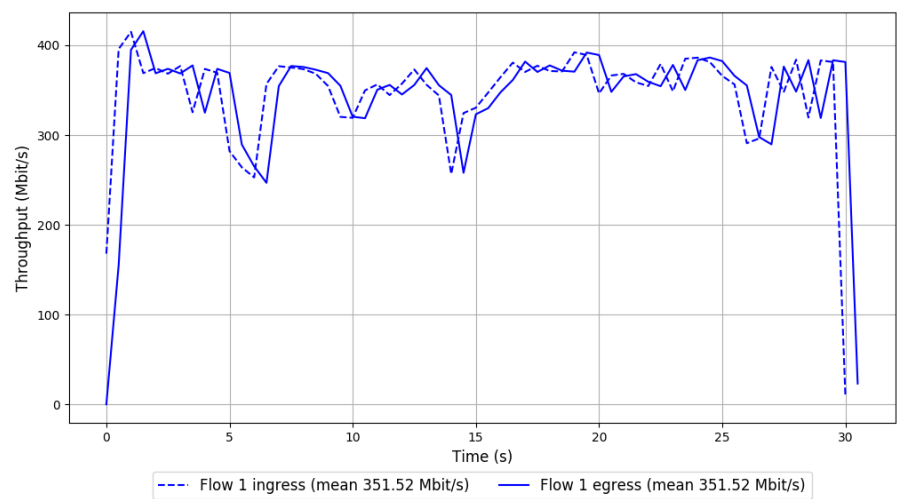


Run 7: Statistics of Copa

Start at: 2018-08-21 21:34:53
End at: 2018-08-21 21:35:23
Local clock offset: 1.638 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-08-21 23:41:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 351.52 Mbit/s
95th percentile per-packet one-way delay: 19.469 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.52 Mbit/s
95th percentile per-packet one-way delay: 19.469 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-21 22:00:15

End at: 2018-08-21 22:00:45

Local clock offset: 0.029 ms

Remote clock offset: 2.083 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.14 Mbit/s

95th percentile per-packet one-way delay: 19.187 ms

Loss rate: 0.00%

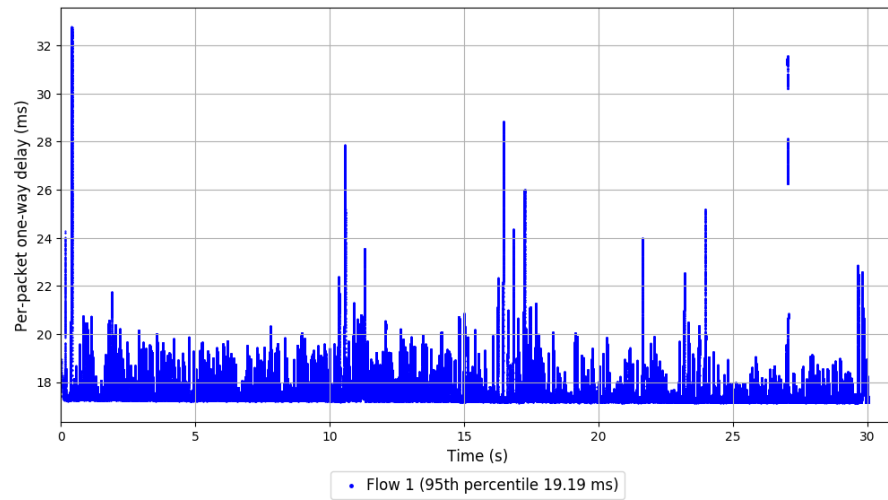
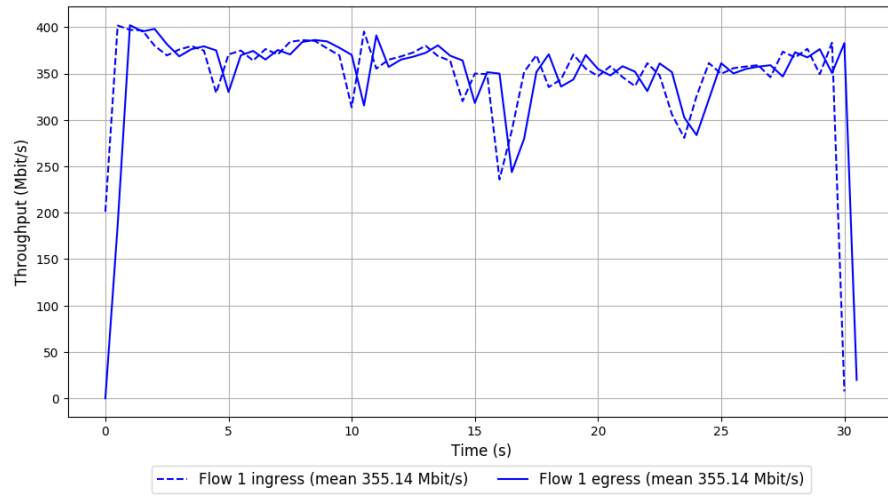
-- Flow 1:

Average throughput: 355.14 Mbit/s

95th percentile per-packet one-way delay: 19.187 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-08-21 22:25:32

End at: 2018-08-21 22:26:02

Local clock offset: -2.7 ms

Remote clock offset: 4.286 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.49 Mbit/s

95th percentile per-packet one-way delay: 21.927 ms

Loss rate: 0.21%

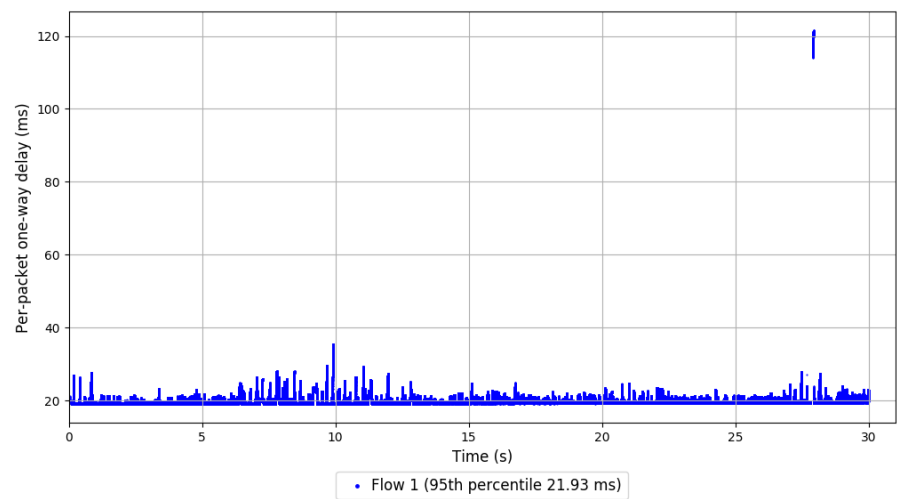
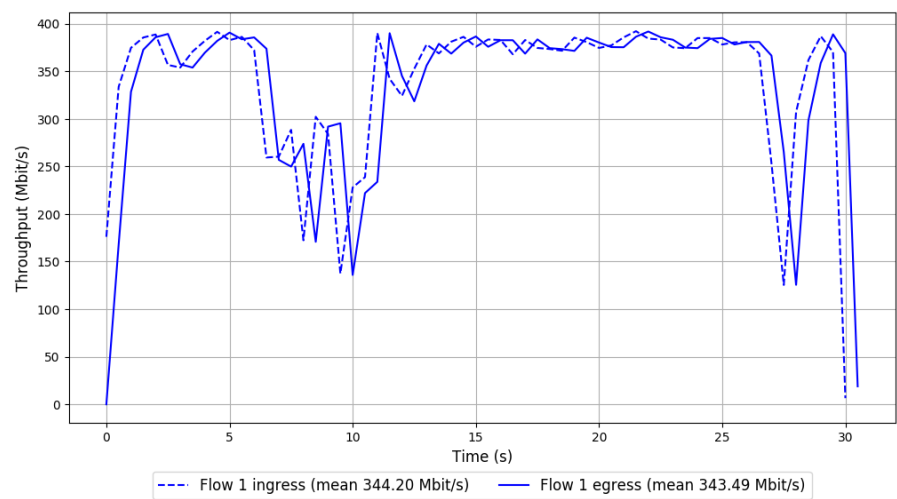
-- Flow 1:

Average throughput: 343.49 Mbit/s

95th percentile per-packet one-way delay: 21.927 ms

Loss rate: 0.21%

Run 9: Report of Copa — Data Link

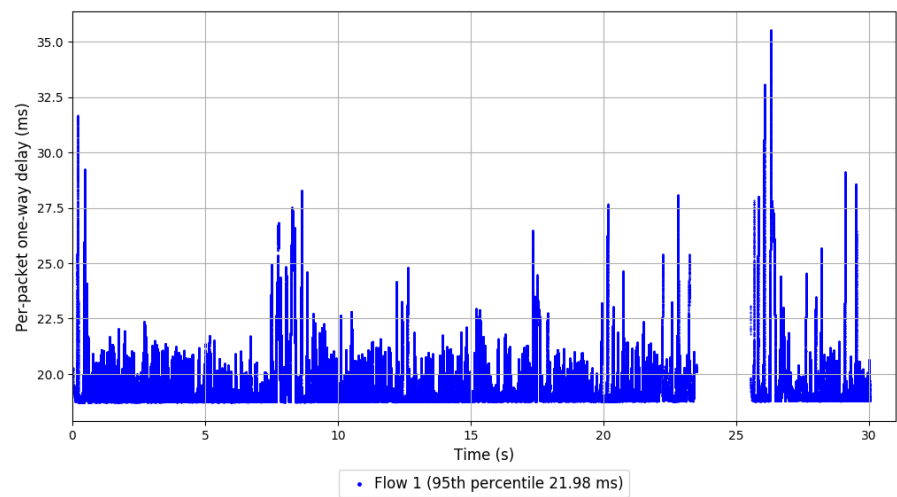
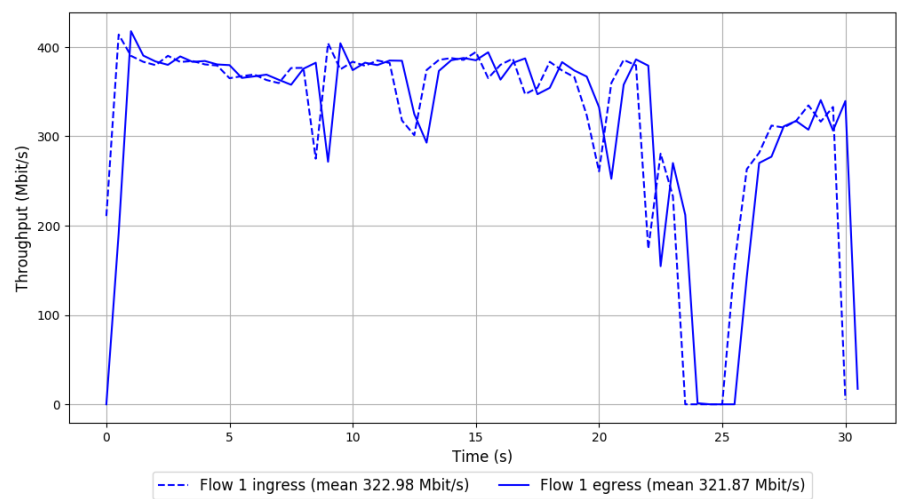


Run 10: Statistics of Copa

Start at: 2018-08-21 22:50:51
End at: 2018-08-21 22:51:21
Local clock offset: -0.229 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-08-21 23:42:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 321.87 Mbit/s
95th percentile per-packet one-way delay: 21.984 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 321.87 Mbit/s
95th percentile per-packet one-way delay: 21.984 ms
Loss rate: 0.35%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

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

End at: 2018-08-21 19:07:51

Local clock offset: -2.102 ms

Remote clock offset: 1.79 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.61 Mbit/s

95th percentile per-packet one-way delay: 19.644 ms

Loss rate: 0.02%

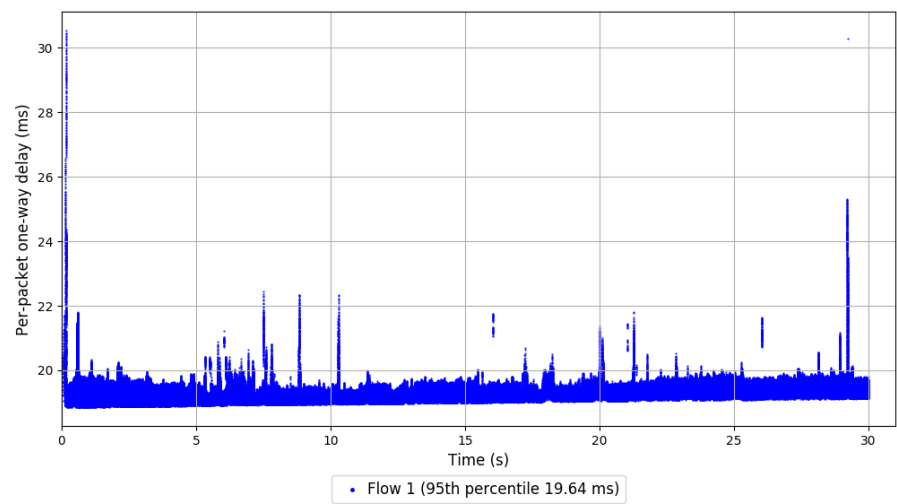
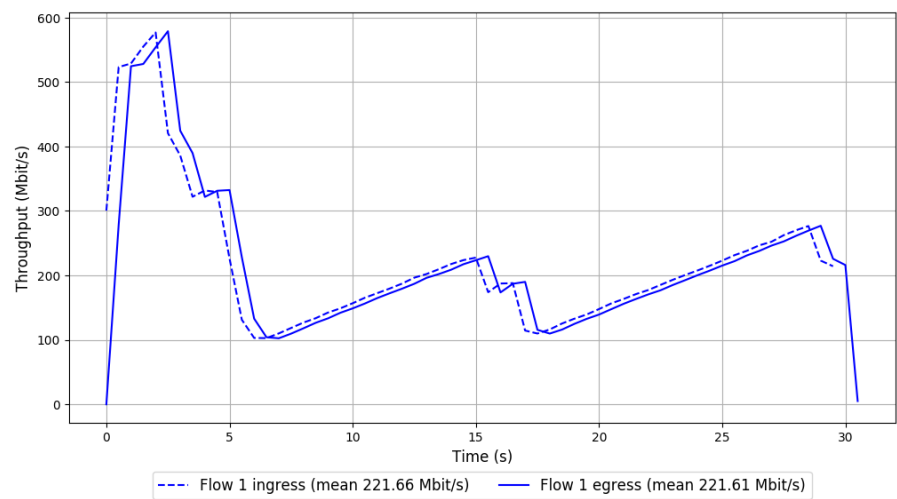
-- Flow 1:

Average throughput: 221.61 Mbit/s

95th percentile per-packet one-way delay: 19.644 ms

Loss rate: 0.02%

Run 1: Report of TCP Cubic — Data Link

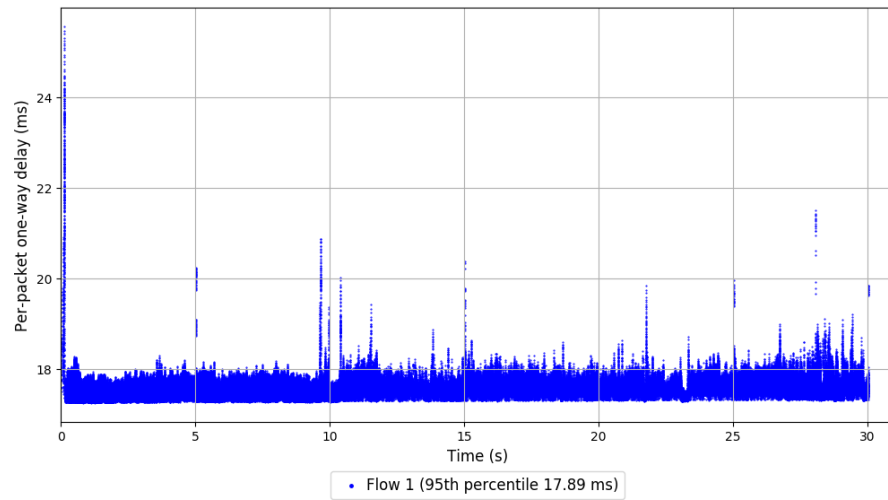
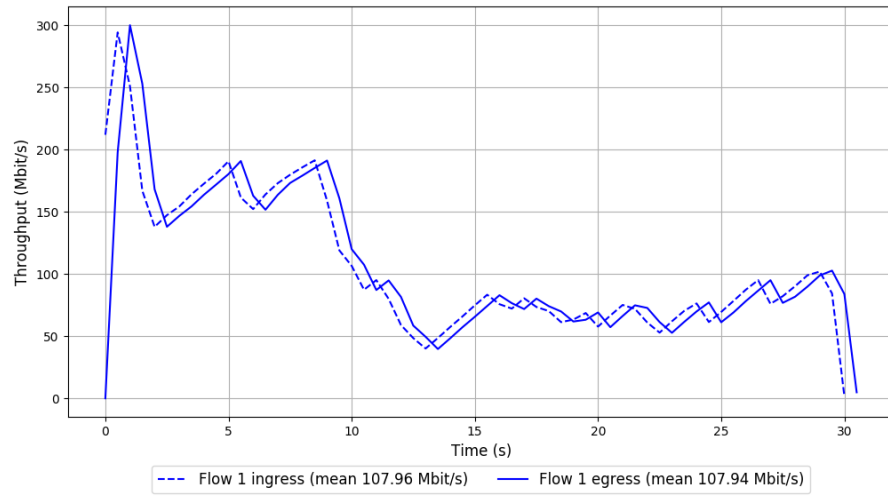


Run 2: Statistics of TCP Cubic

Start at: 2018-08-21 19:32:46
End at: 2018-08-21 19:33:16
Local clock offset: 1.836 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-08-21 23:42:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 107.94 Mbit/s
95th percentile per-packet one-way delay: 17.889 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 107.94 Mbit/s
95th percentile per-packet one-way delay: 17.889 ms
Loss rate: 0.01%

Run 2: Report of TCP Cubic — Data Link

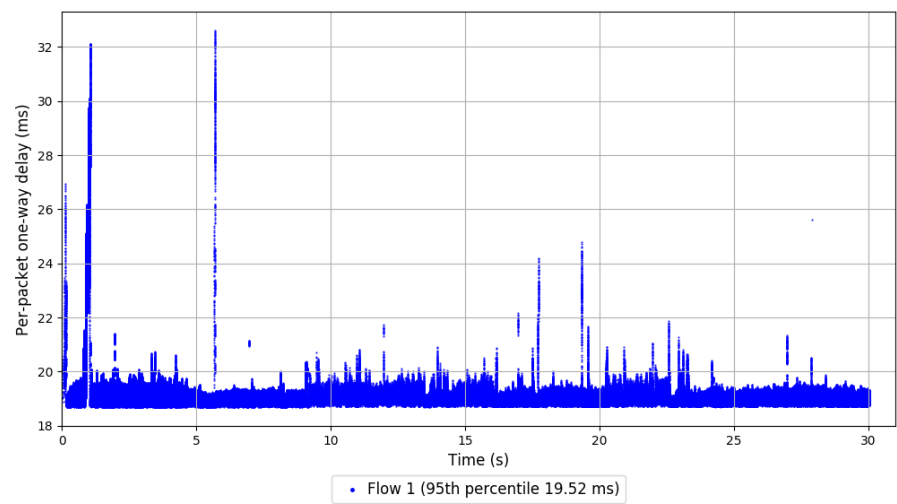
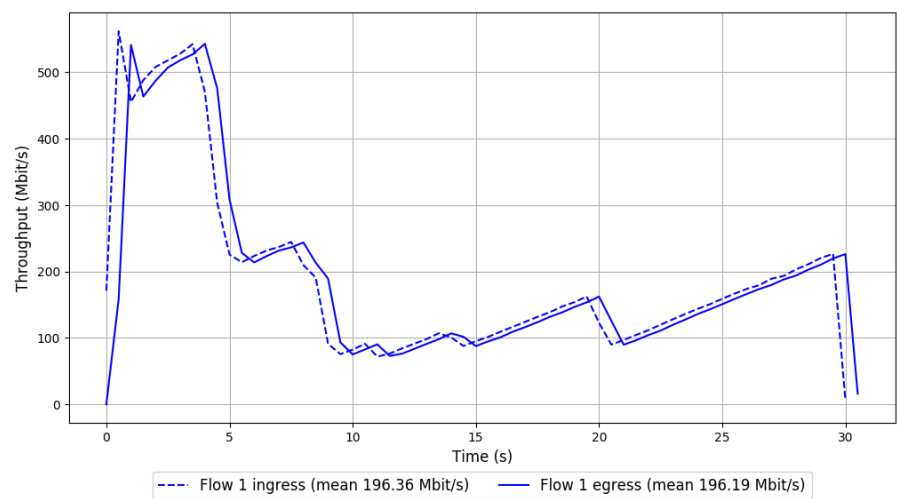


Run 3: Statistics of TCP Cubic

Start at: 2018-08-21 19:57:55
End at: 2018-08-21 19:58:25
Local clock offset: 2.49 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-08-21 23:42:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 19.515 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 196.19 Mbit/s
95th percentile per-packet one-way delay: 19.515 ms
Loss rate: 0.09%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-21 20:23:07

End at: 2018-08-21 20:23:37

Local clock offset: 1.235 ms

Remote clock offset: 2.894 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 178.97 Mbit/s

95th percentile per-packet one-way delay: 19.339 ms

Loss rate: 0.01%

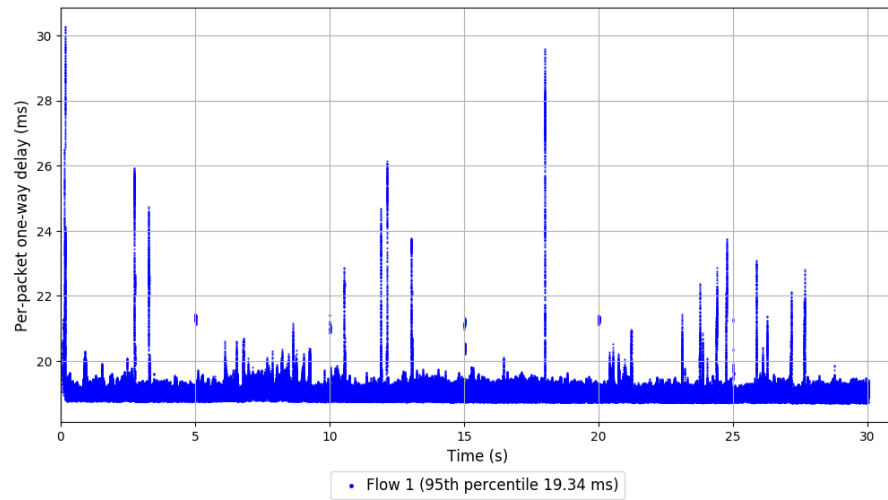
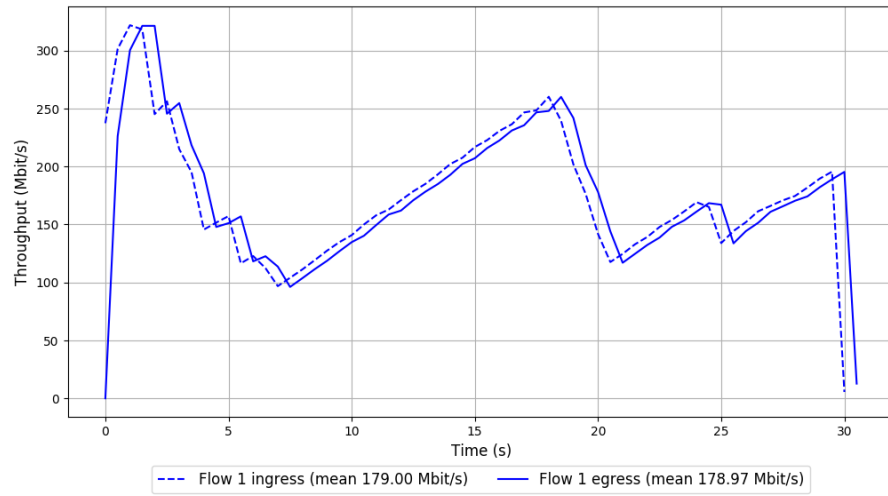
-- Flow 1:

Average throughput: 178.97 Mbit/s

95th percentile per-packet one-way delay: 19.339 ms

Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-21 20:48:01

End at: 2018-08-21 20:48:31

Local clock offset: 0.769 ms

Remote clock offset: 3.616 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.86 Mbit/s

95th percentile per-packet one-way delay: 23.554 ms

Loss rate: 0.23%

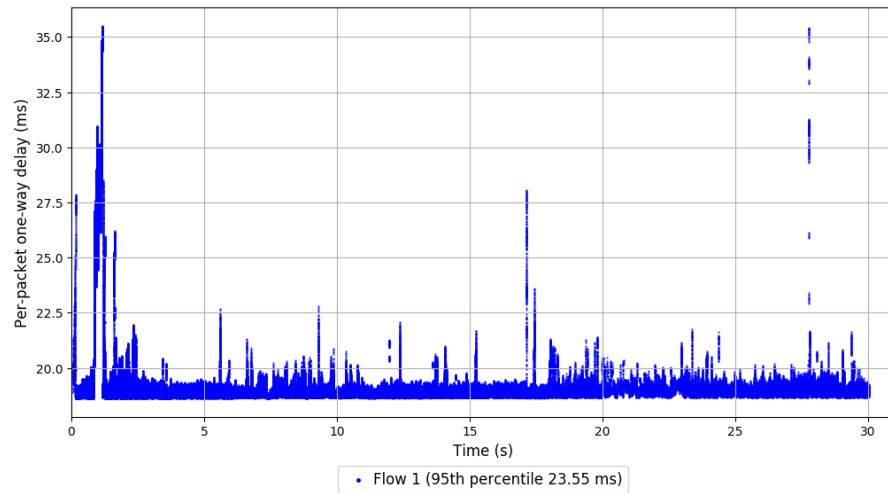
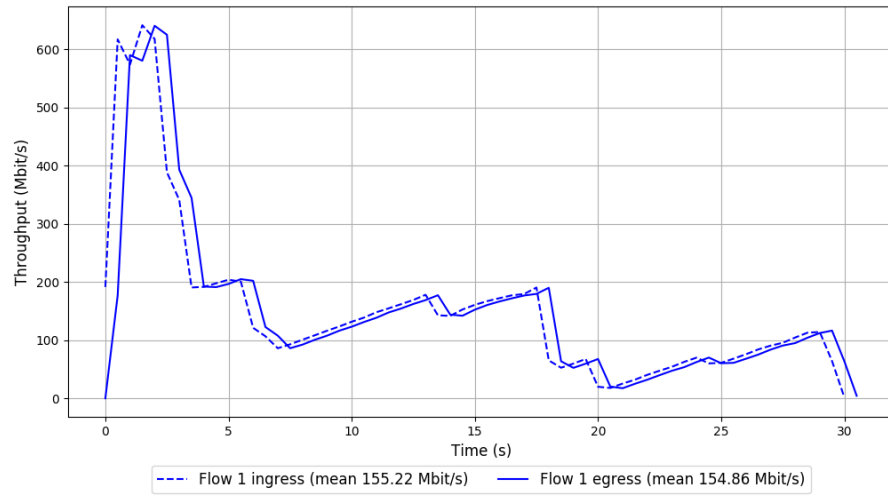
-- Flow 1:

Average throughput: 154.86 Mbit/s

95th percentile per-packet one-way delay: 23.554 ms

Loss rate: 0.23%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-21 21:13:07

End at: 2018-08-21 21:13:37

Local clock offset: 1.061 ms

Remote clock offset: 3.504 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.03 Mbit/s

95th percentile per-packet one-way delay: 18.702 ms

Loss rate: 0.11%

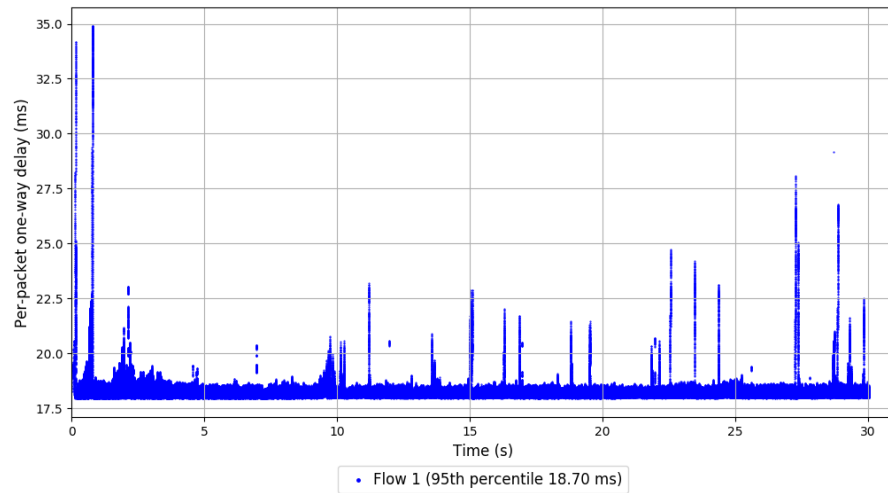
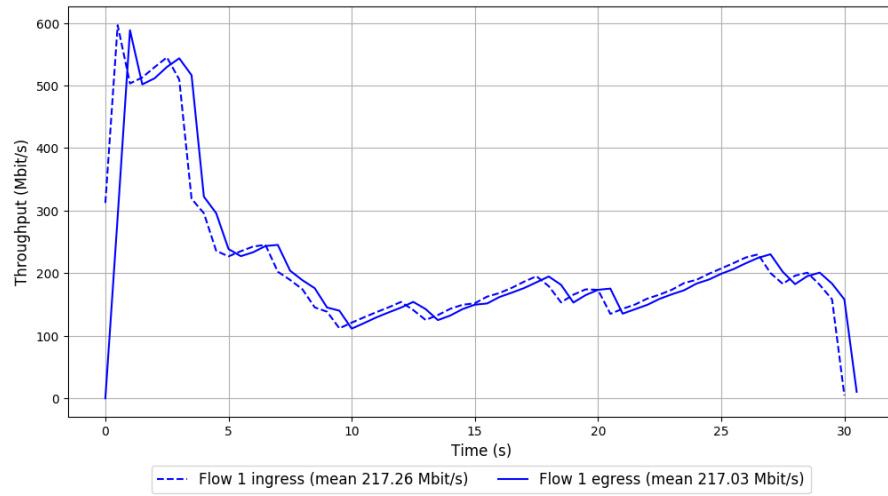
-- Flow 1:

Average throughput: 217.03 Mbit/s

95th percentile per-packet one-way delay: 18.702 ms

Loss rate: 0.11%

Run 6: Report of TCP Cubic — Data Link

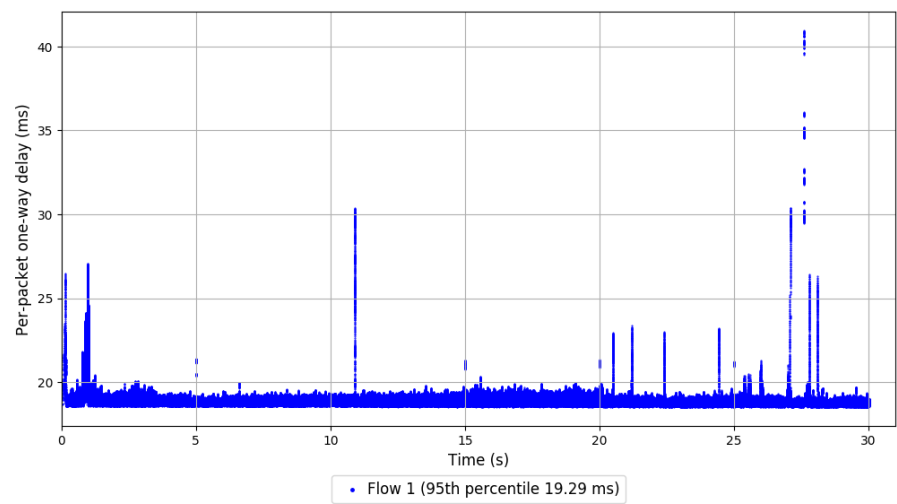
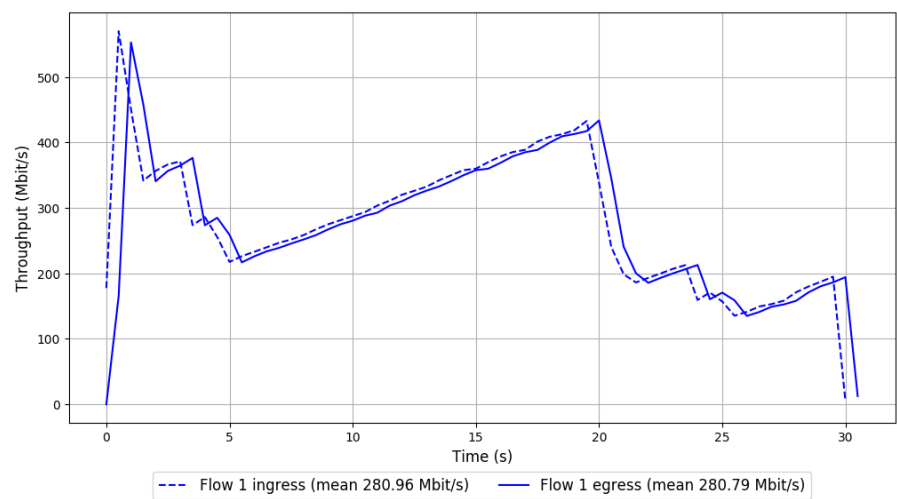


Run 7: Statistics of TCP Cubic

Start at: 2018-08-21 21:38:10
End at: 2018-08-21 21:38:40
Local clock offset: 1.552 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-08-21 23:42:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 280.79 Mbit/s
95th percentile per-packet one-way delay: 19.288 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 280.79 Mbit/s
95th percentile per-packet one-way delay: 19.288 ms
Loss rate: 0.06%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-21 22:03:30

End at: 2018-08-21 22:04:00

Local clock offset: 0.058 ms

Remote clock offset: 2.75 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.73 Mbit/s

95th percentile per-packet one-way delay: 18.624 ms

Loss rate: 0.16%

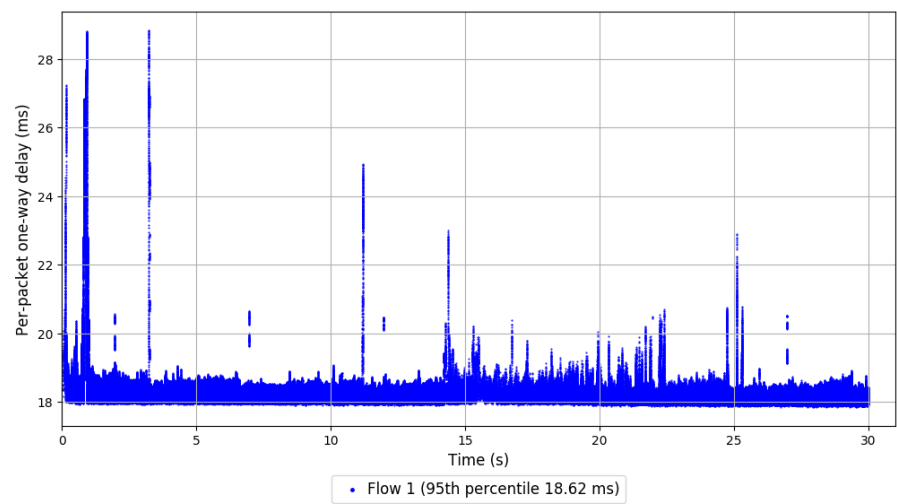
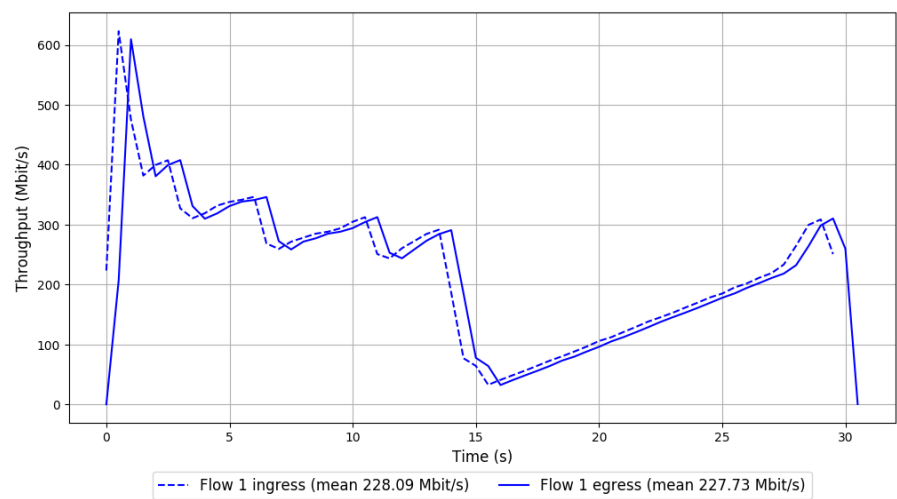
-- Flow 1:

Average throughput: 227.73 Mbit/s

95th percentile per-packet one-way delay: 18.624 ms

Loss rate: 0.16%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-08-21 22:28:47

End at: 2018-08-21 22:29:17

Local clock offset: -2.81 ms

Remote clock offset: 2.953 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.18 Mbit/s

95th percentile per-packet one-way delay: 18.802 ms

Loss rate: 0.06%

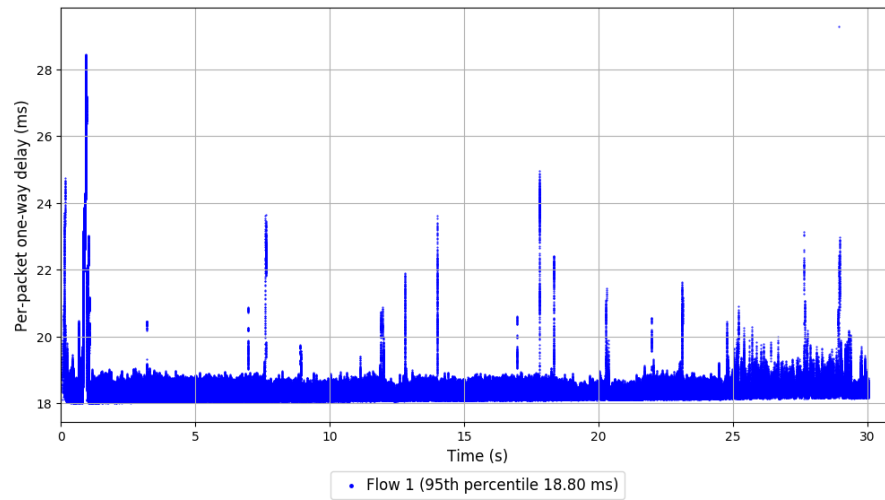
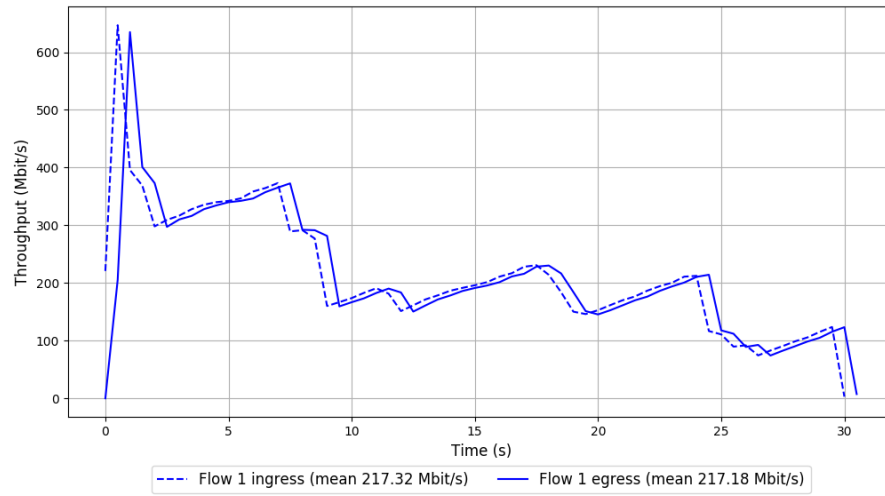
-- Flow 1:

Average throughput: 217.18 Mbit/s

95th percentile per-packet one-way delay: 18.802 ms

Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-21 22:54:06

End at: 2018-08-21 22:54:36

Local clock offset: 0.08 ms

Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-08-21 23:42:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 120.13 Mbit/s

95th percentile per-packet one-way delay: 18.740 ms

Loss rate: 0.02%

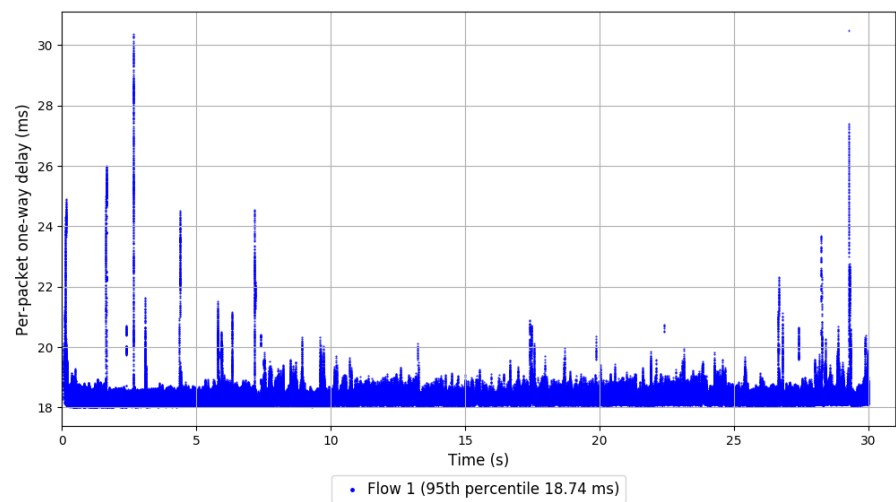
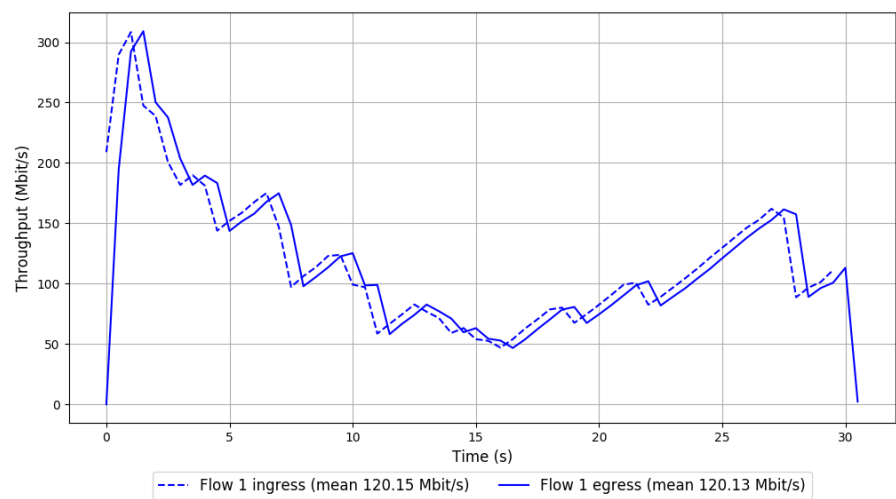
-- Flow 1:

Average throughput: 120.13 Mbit/s

95th percentile per-packet one-way delay: 18.740 ms

Loss rate: 0.02%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-21 18:58:18

End at: 2018-08-21 18:58:48

Local clock offset: -1.91 ms

Remote clock offset: 4.178 ms

Below is generated by plot.py at 2018-08-21 23:49:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 681.16 Mbit/s

95th percentile per-packet one-way delay: 88.266 ms

Loss rate: 4.65%

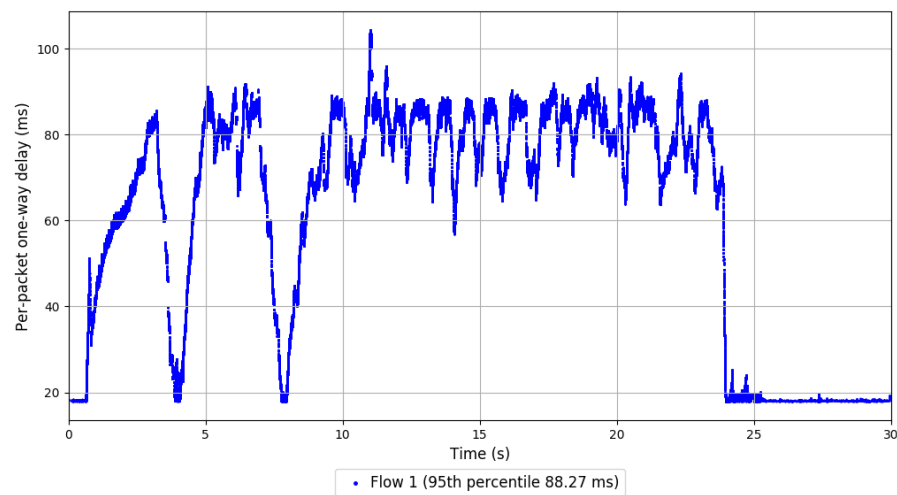
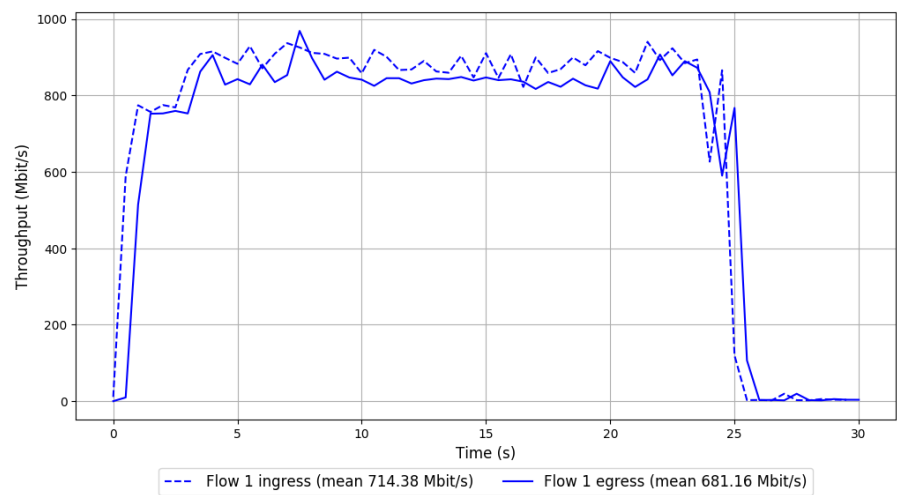
-- Flow 1:

Average throughput: 681.16 Mbit/s

95th percentile per-packet one-way delay: 88.266 ms

Loss rate: 4.65%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-21 19:23:39

End at: 2018-08-21 19:24:09

Local clock offset: 1.012 ms

Remote clock offset: 0.175 ms

Below is generated by plot.py at 2018-08-21 23:52:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 855.50 Mbit/s

95th percentile per-packet one-way delay: 88.323 ms

Loss rate: 3.28%

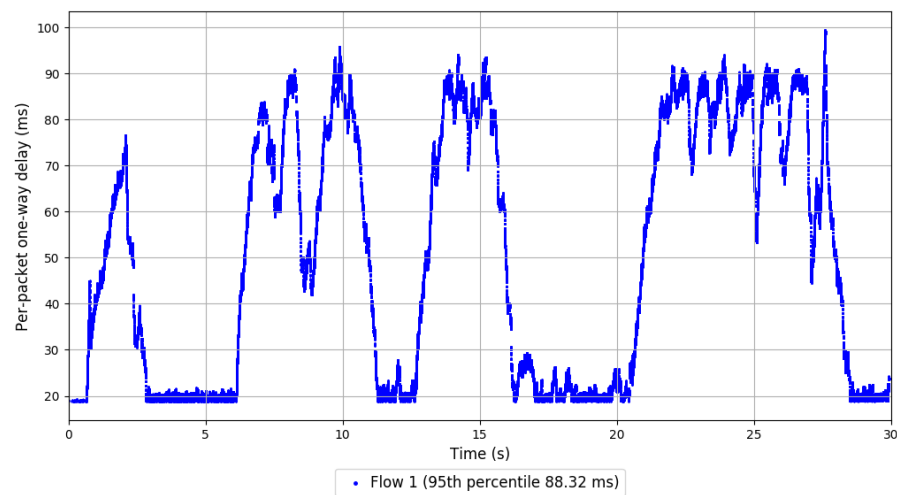
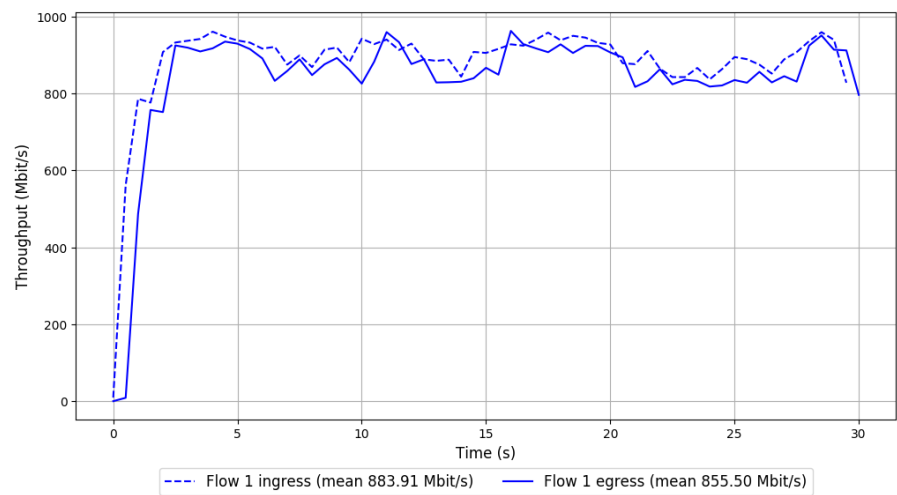
-- Flow 1:

Average throughput: 855.50 Mbit/s

95th percentile per-packet one-way delay: 88.323 ms

Loss rate: 3.28%

Run 2: Report of FillP — Data Link

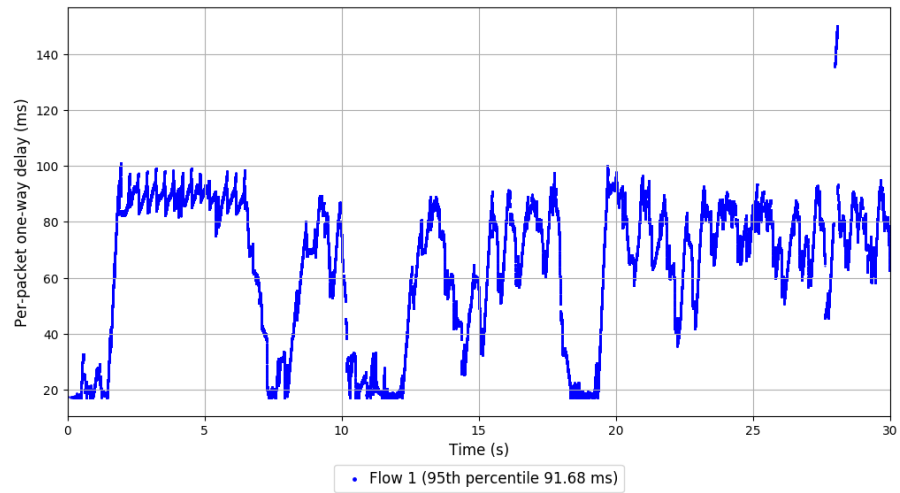
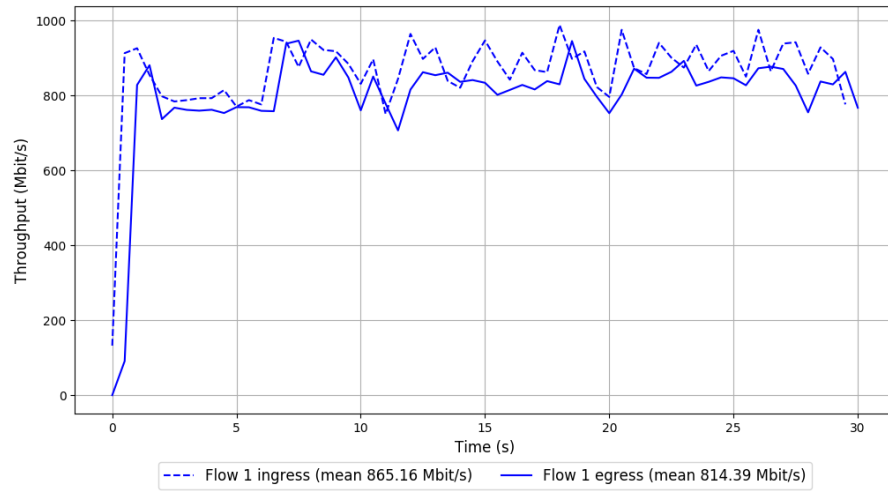


Run 3: Statistics of FillP

Start at: 2018-08-21 19:48:48
End at: 2018-08-21 19:49:18
Local clock offset: 2.123 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-08-21 23:52:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 814.39 Mbit/s
95th percentile per-packet one-way delay: 91.676 ms
Loss rate: 5.86%
-- Flow 1:
Average throughput: 814.39 Mbit/s
95th percentile per-packet one-way delay: 91.676 ms
Loss rate: 5.86%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-21 20:14:04

End at: 2018-08-21 20:14:34

Local clock offset: 1.824 ms

Remote clock offset: 1.567 ms

Below is generated by plot.py at 2018-08-21 23:52:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 804.53 Mbit/s

95th percentile per-packet one-way delay: 90.513 ms

Loss rate: 5.13%

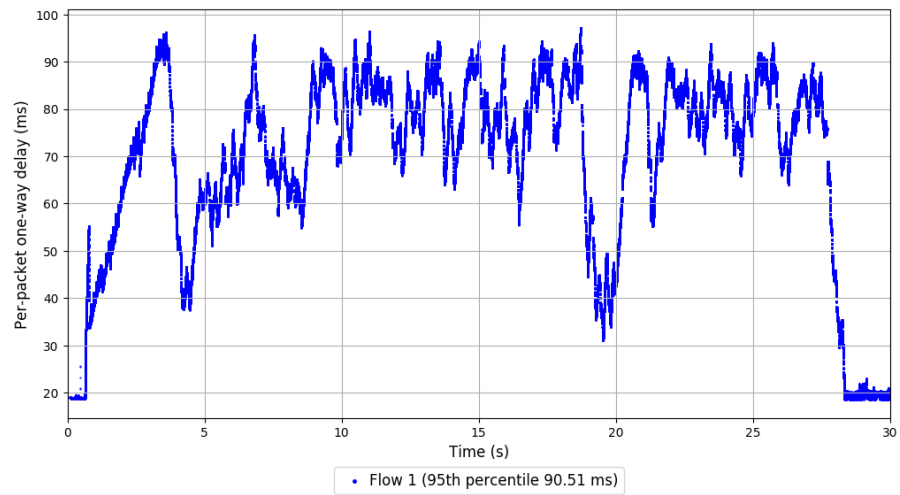
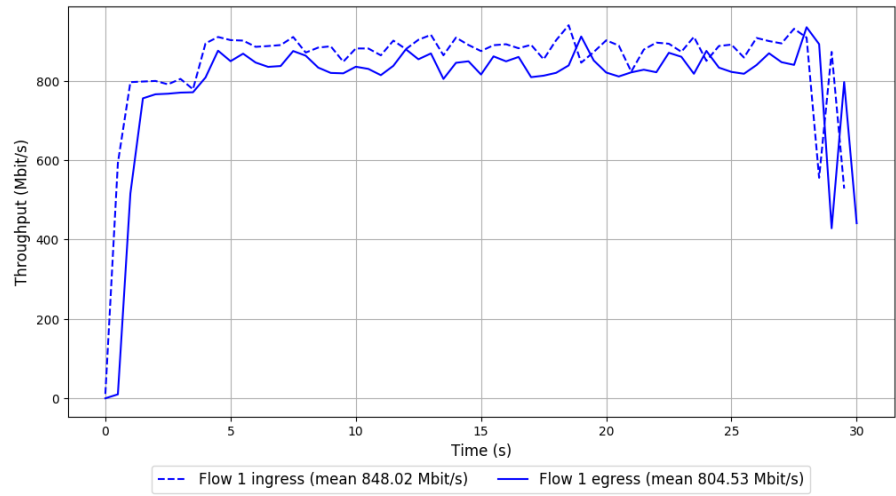
-- Flow 1:

Average throughput: 804.53 Mbit/s

95th percentile per-packet one-way delay: 90.513 ms

Loss rate: 5.13%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-21 20:39:02

End at: 2018-08-21 20:39:33

Local clock offset: 0.997 ms

Remote clock offset: 4.018 ms

Below is generated by plot.py at 2018-08-21 23:52:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 752.55 Mbit/s

95th percentile per-packet one-way delay: 87.507 ms

Loss rate: 4.49%

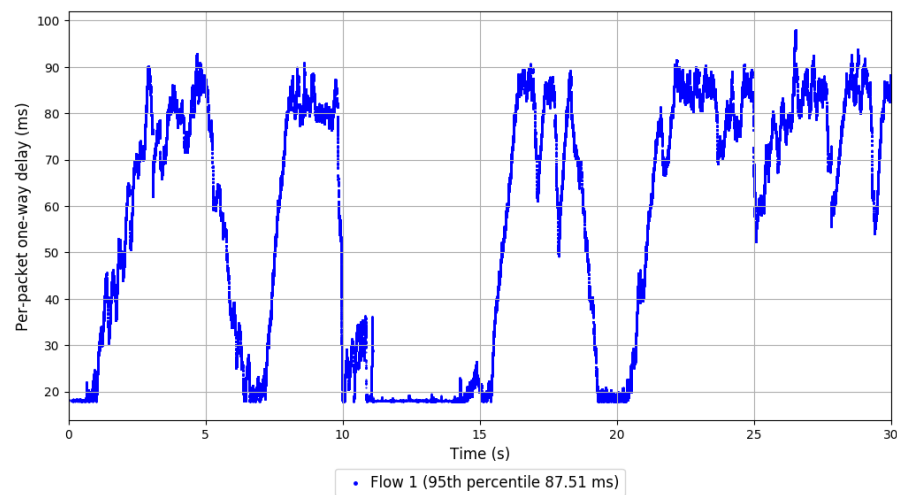
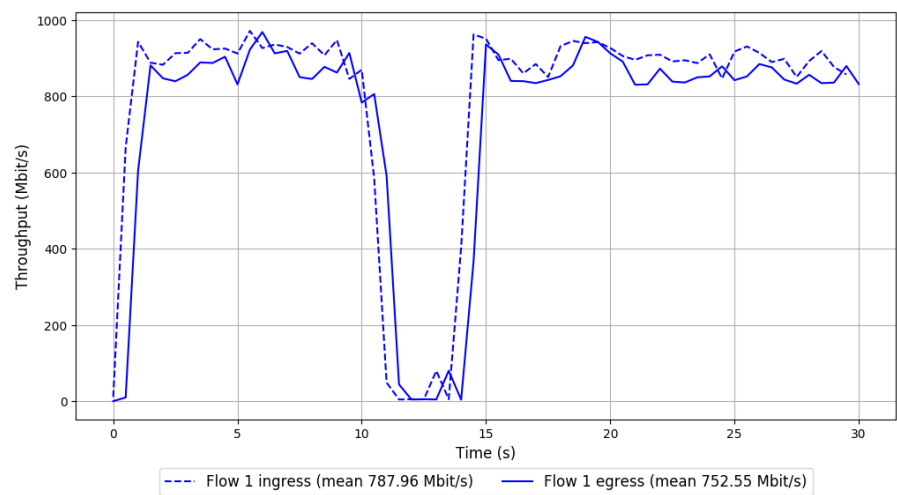
-- Flow 1:

Average throughput: 752.55 Mbit/s

95th percentile per-packet one-way delay: 87.507 ms

Loss rate: 4.49%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-21 21:04:02

End at: 2018-08-21 21:04:32

Local clock offset: 0.741 ms

Remote clock offset: 3.349 ms

Below is generated by plot.py at 2018-08-21 23:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 805.87 Mbit/s

95th percentile per-packet one-way delay: 90.235 ms

Loss rate: 4.27%

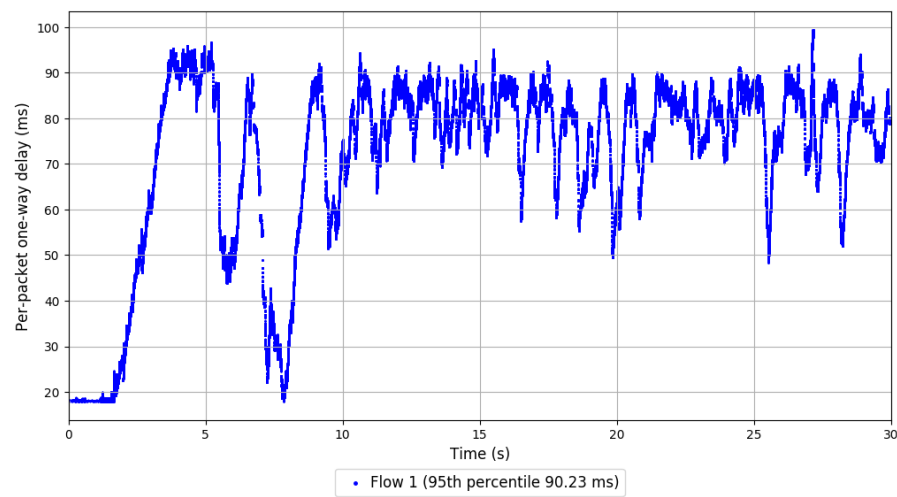
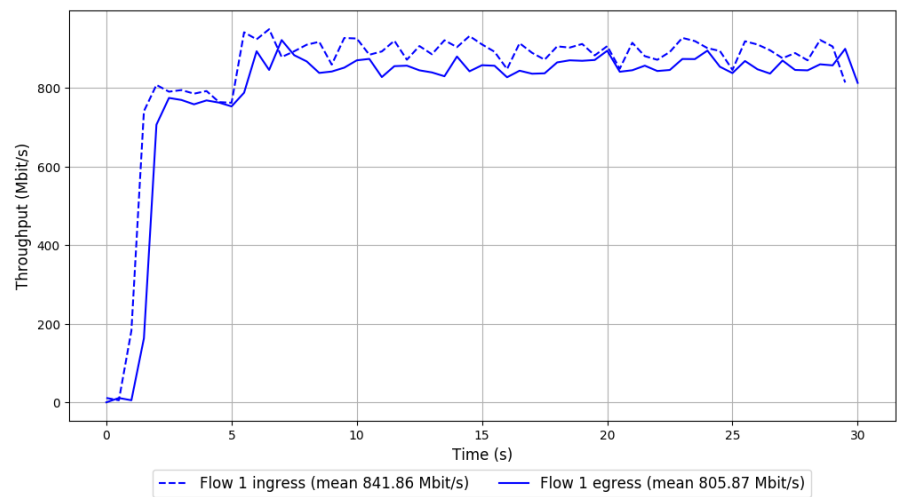
-- Flow 1:

Average throughput: 805.87 Mbit/s

95th percentile per-packet one-way delay: 90.235 ms

Loss rate: 4.27%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-21 21:29:03

End at: 2018-08-21 21:29:33

Local clock offset: 1.501 ms

Remote clock offset: 0.412 ms

Below is generated by plot.py at 2018-08-21 23:53:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 790.41 Mbit/s

95th percentile per-packet one-way delay: 92.634 ms

Loss rate: 3.01%

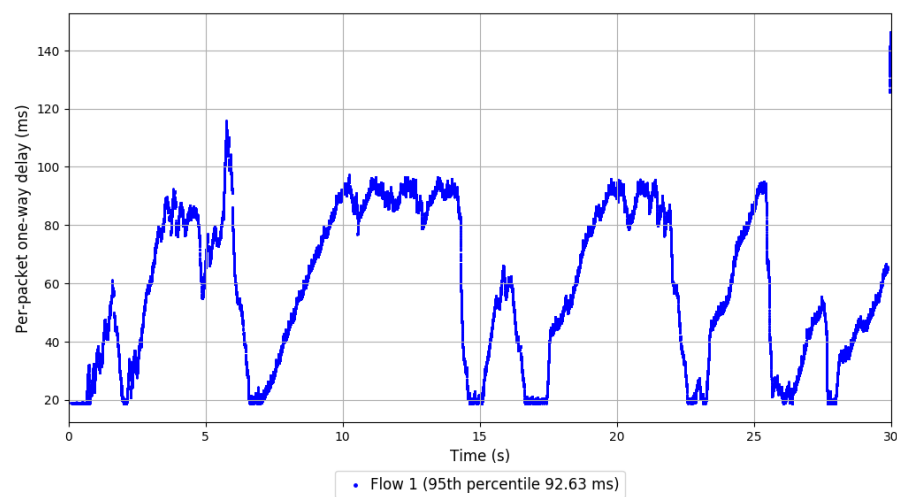
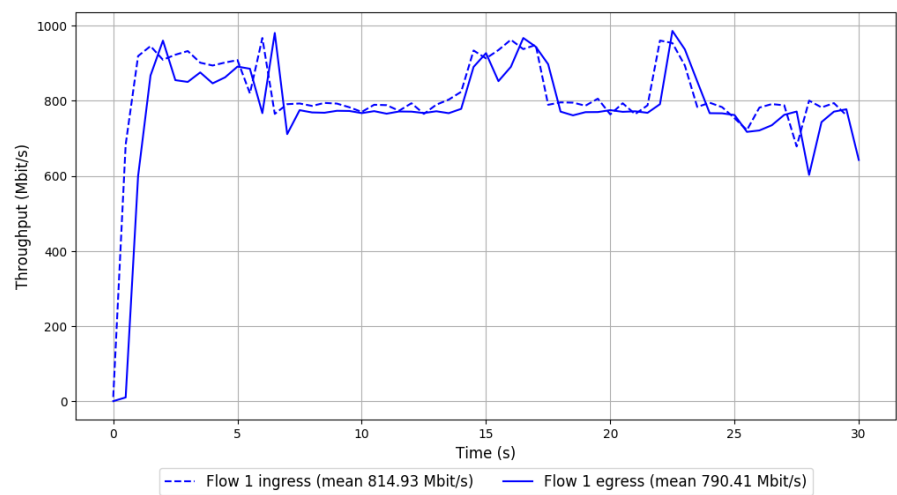
-- Flow 1:

Average throughput: 790.41 Mbit/s

95th percentile per-packet one-way delay: 92.634 ms

Loss rate: 3.01%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

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

End at: 2018-08-21 21:54:51

Local clock offset: 0.161 ms

Remote clock offset: 0.512 ms

Below is generated by plot.py at 2018-08-21 23:54:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 830.36 Mbit/s

95th percentile per-packet one-way delay: 91.074 ms

Loss rate: 5.53%

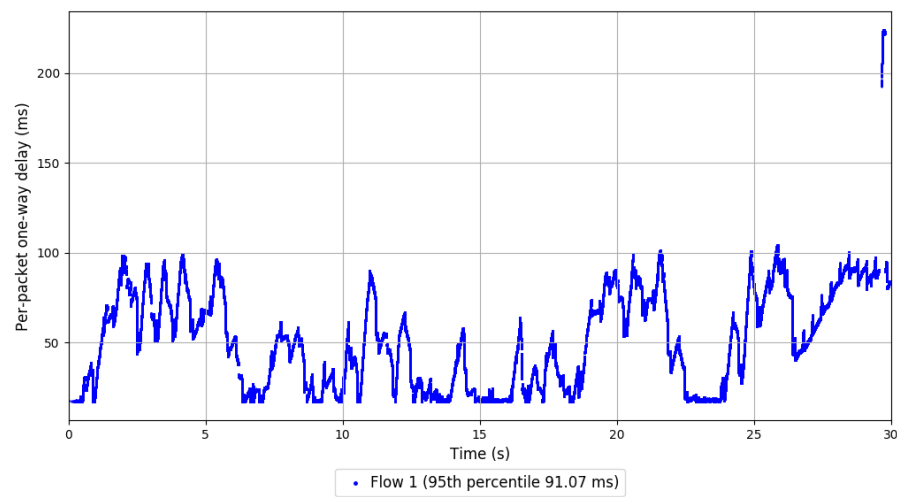
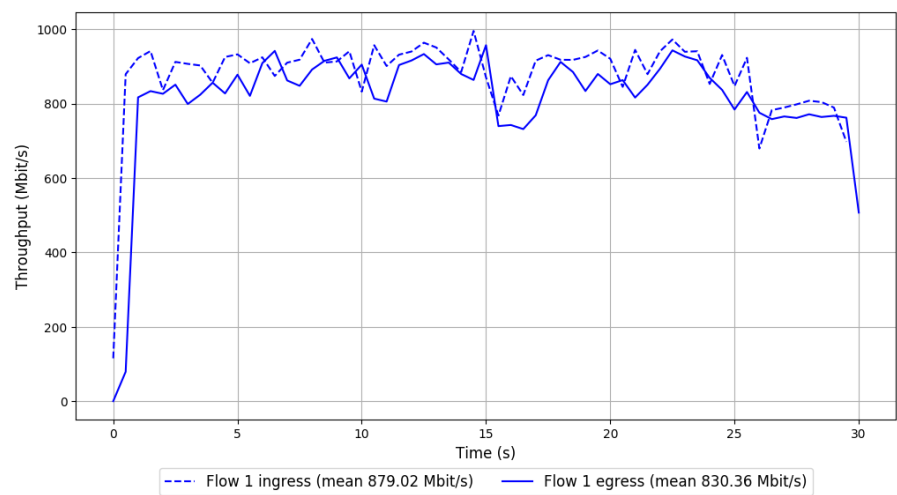
-- Flow 1:

Average throughput: 830.36 Mbit/s

95th percentile per-packet one-way delay: 91.074 ms

Loss rate: 5.53%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-21 22:19:41

End at: 2018-08-21 22:20:11

Local clock offset: -2.102 ms

Remote clock offset: 4.336 ms

Below is generated by plot.py at 2018-08-22 00:02:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 826.38 Mbit/s

95th percentile per-packet one-way delay: 90.847 ms

Loss rate: 3.97%

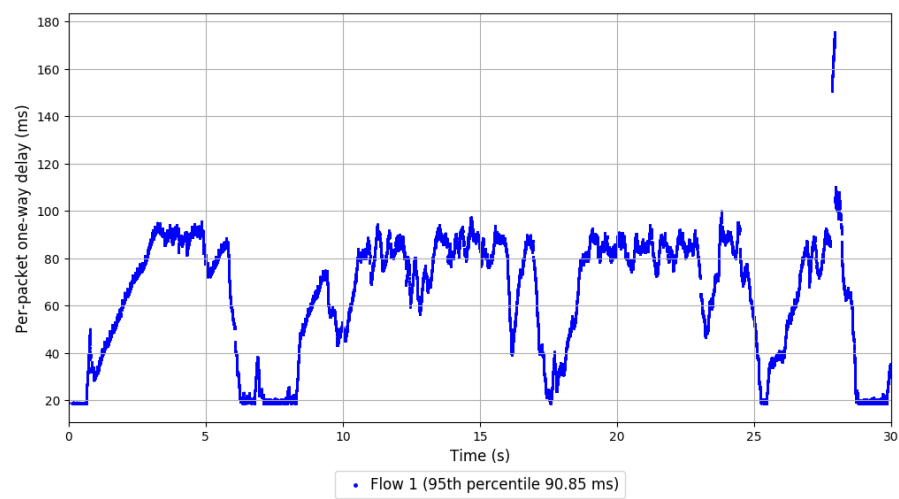
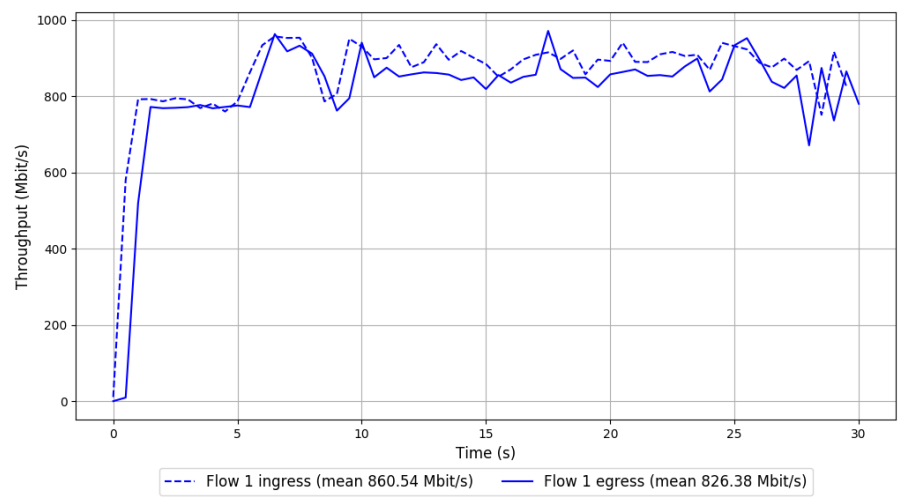
-- Flow 1:

Average throughput: 826.38 Mbit/s

95th percentile per-packet one-way delay: 90.847 ms

Loss rate: 3.97%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-08-21 22:45:00

End at: 2018-08-21 22:45:30

Local clock offset: -0.97 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-08-22 00:03:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 750.67 Mbit/s

95th percentile per-packet one-way delay: 93.073 ms

Loss rate: 2.84%

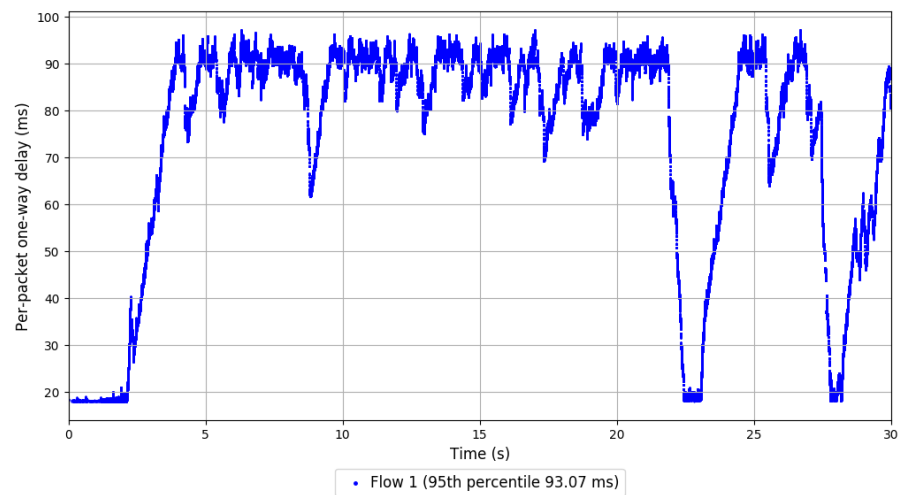
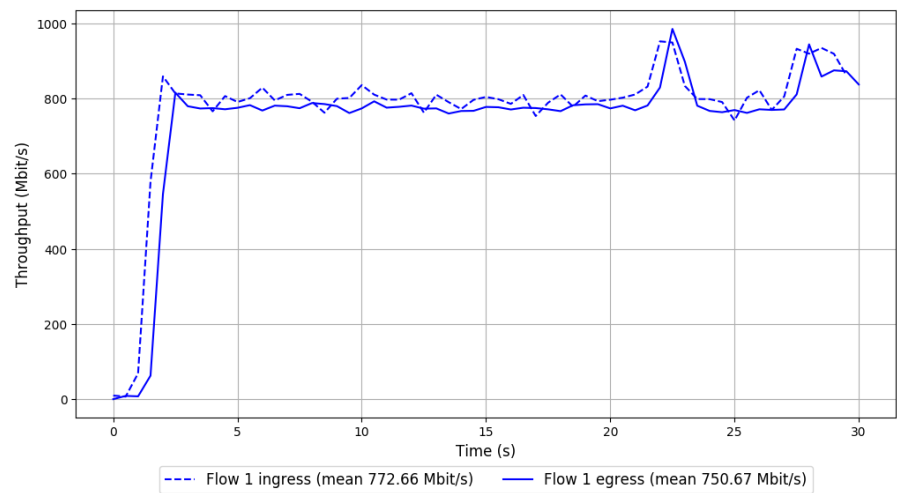
-- Flow 1:

Average throughput: 750.67 Mbit/s

95th percentile per-packet one-way delay: 93.073 ms

Loss rate: 2.84%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-21 19:20:38

End at: 2018-08-21 19:21:08

Local clock offset: 0.547 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2018-08-22 00:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.91 Mbit/s

95th percentile per-packet one-way delay: 46.766 ms

Loss rate: 7.40%

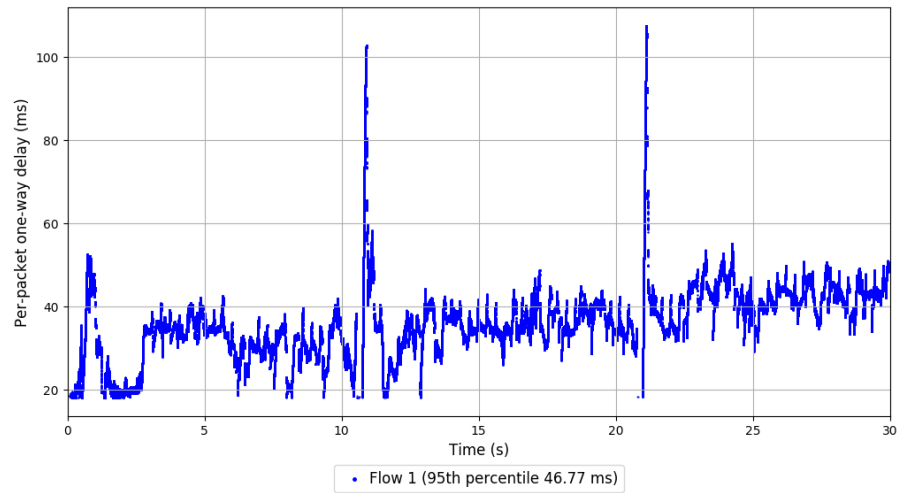
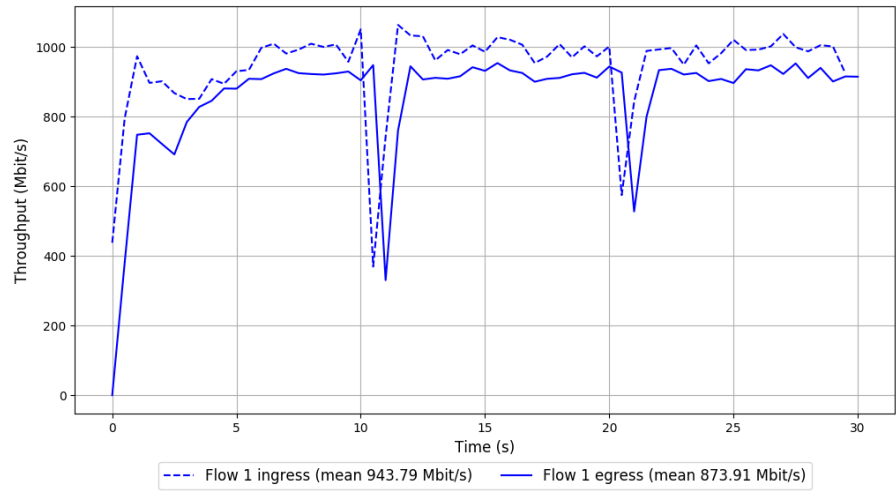
-- Flow 1:

Average throughput: 873.91 Mbit/s

95th percentile per-packet one-way delay: 46.766 ms

Loss rate: 7.40%

Run 1: Report of FillP-Sheep — Data Link

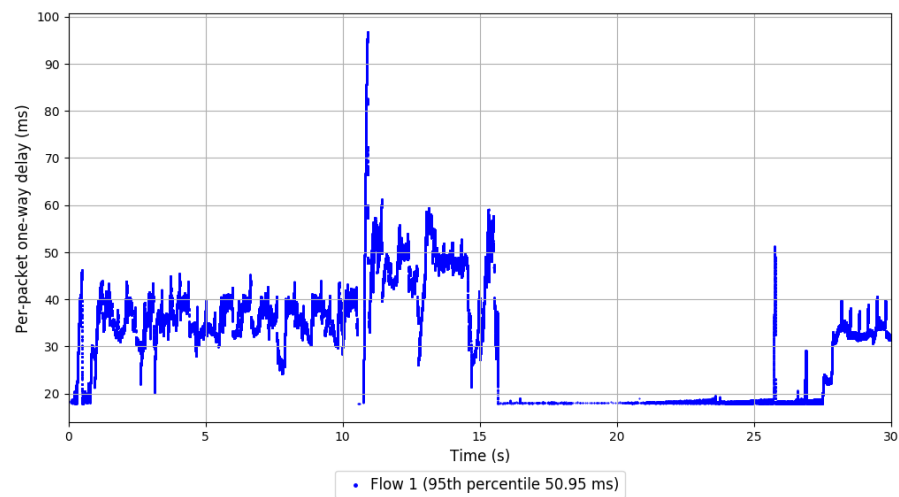
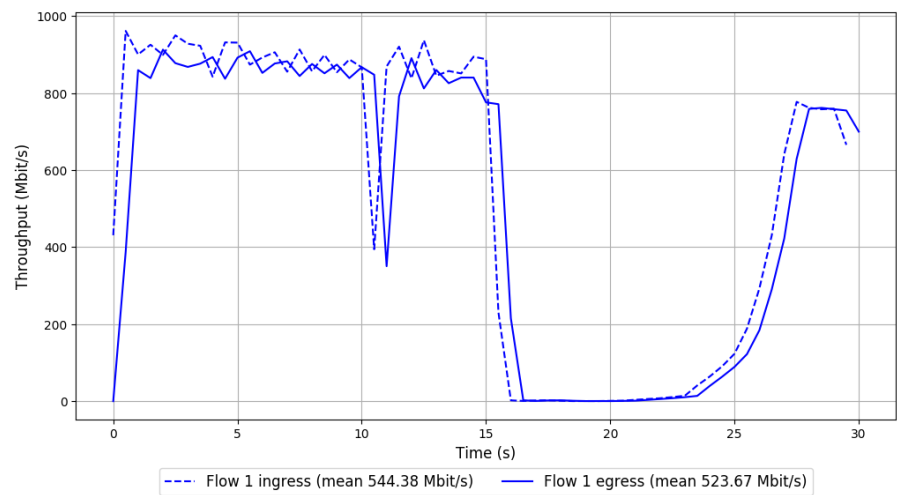


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-21 19:45:59
End at: 2018-08-21 19:46:29
Local clock offset: 2.06 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-08-22 00:04:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 523.67 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 523.67 Mbit/s
95th percentile per-packet one-way delay: 50.950 ms
Loss rate: 3.80%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-21 20:11:05

End at: 2018-08-21 20:11:35

Local clock offset: 2.249 ms

Remote clock offset: 0.769 ms

Below is generated by plot.py at 2018-08-22 00:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 841.66 Mbit/s

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 6.92%

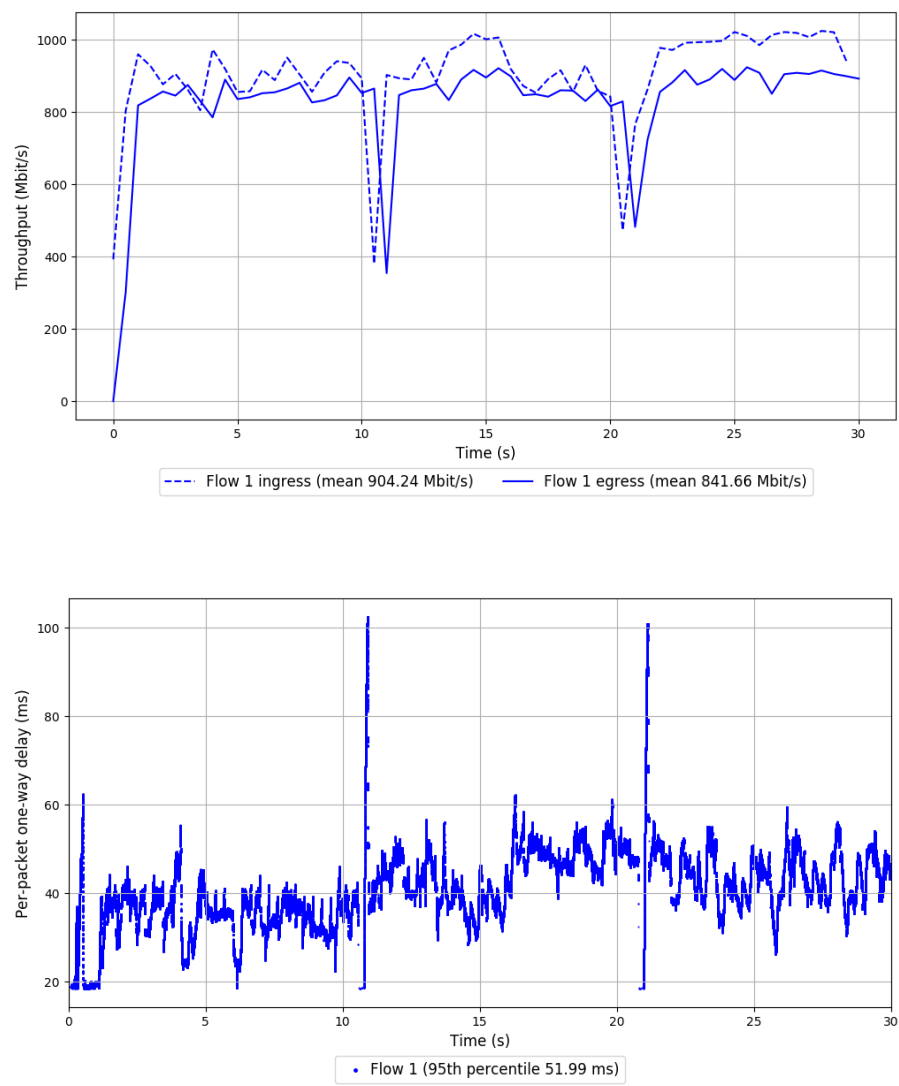
-- Flow 1:

Average throughput: 841.66 Mbit/s

95th percentile per-packet one-way delay: 51.991 ms

Loss rate: 6.92%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-08-21 20:36:21

End at: 2018-08-21 20:36:51

Local clock offset: 1.101 ms

Remote clock offset: 3.767 ms

Below is generated by plot.py at 2018-08-22 00:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 228.60 Mbit/s

95th percentile per-packet one-way delay: 39.312 ms

Loss rate: 8.23%

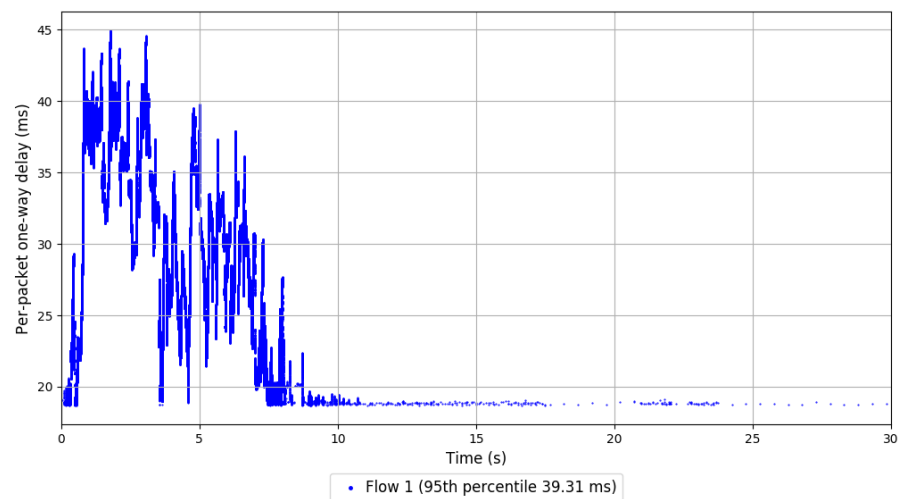
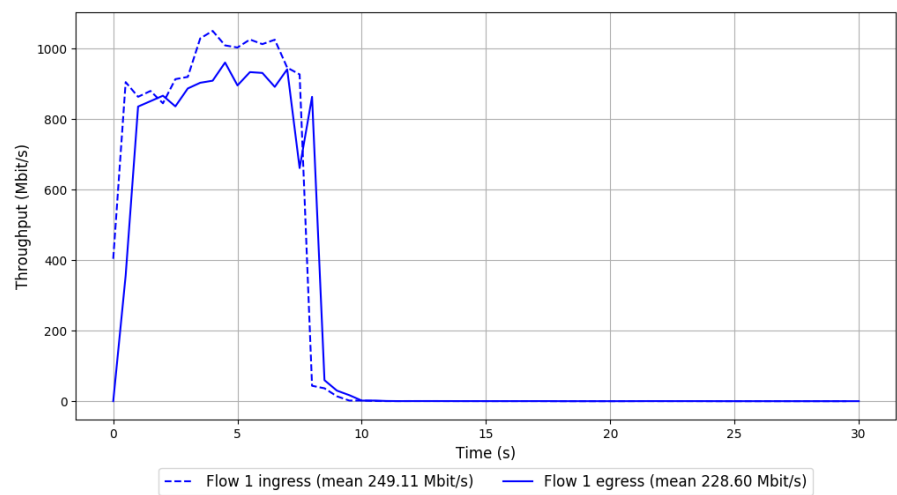
-- Flow 1:

Average throughput: 228.60 Mbit/s

95th percentile per-packet one-way delay: 39.312 ms

Loss rate: 8.23%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-21 21:01:08

End at: 2018-08-21 21:01:38

Local clock offset: 0.761 ms

Remote clock offset: 3.338 ms

Below is generated by plot.py at 2018-08-22 00:04:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 675.52 Mbit/s

95th percentile per-packet one-way delay: 49.460 ms

Loss rate: 6.83%

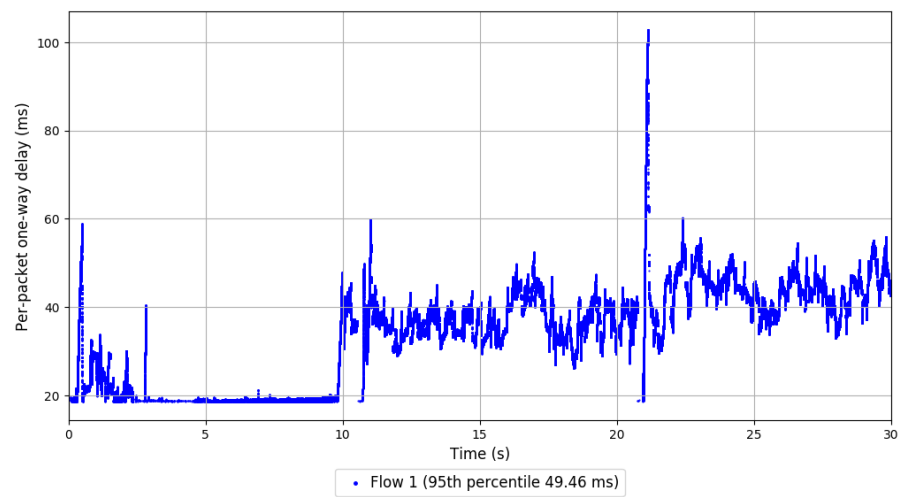
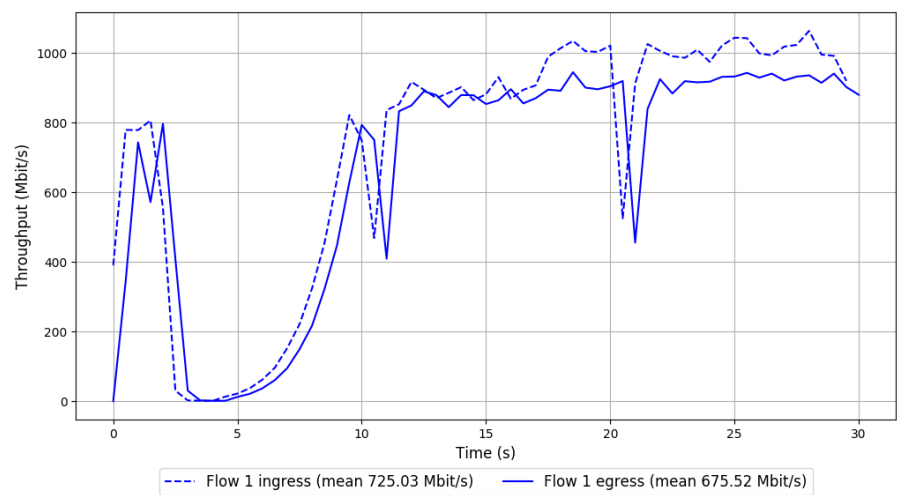
-- Flow 1:

Average throughput: 675.52 Mbit/s

95th percentile per-packet one-way delay: 49.460 ms

Loss rate: 6.83%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-21 21:26:06

End at: 2018-08-21 21:26:36

Local clock offset: 1.351 ms

Remote clock offset: 0.9 ms

Below is generated by plot.py at 2018-08-22 00:06:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.89 Mbit/s

95th percentile per-packet one-way delay: 57.700 ms

Loss rate: 2.99%

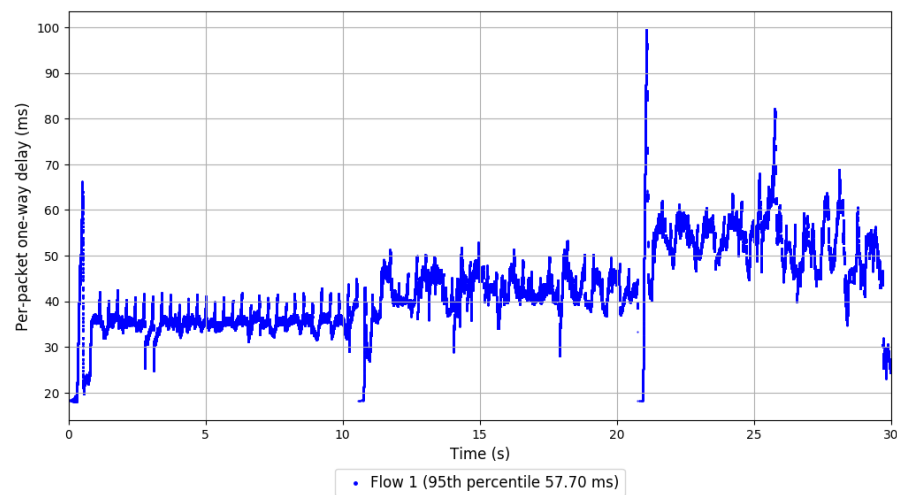
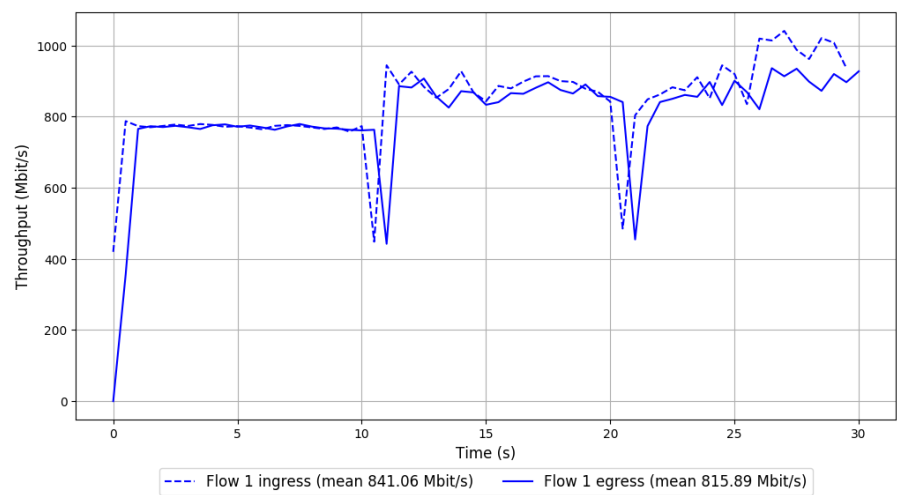
-- Flow 1:

Average throughput: 815.89 Mbit/s

95th percentile per-packet one-way delay: 57.700 ms

Loss rate: 2.99%

Run 6: Report of FillP-Sheep — Data Link

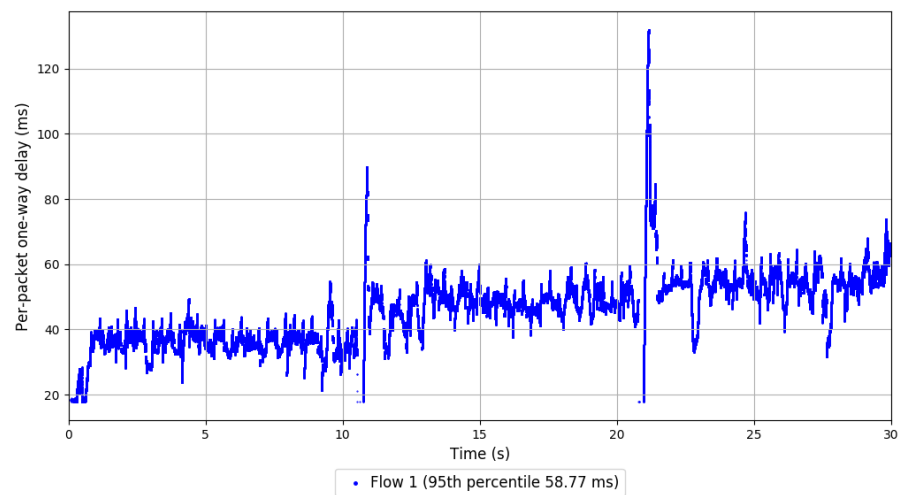
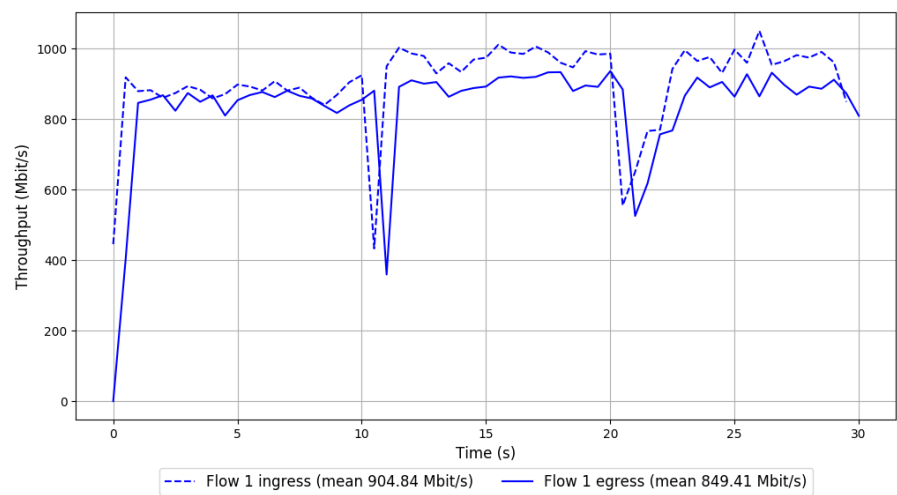


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-21 21:51:20
End at: 2018-08-21 21:51:50
Local clock offset: 0.352 ms
Remote clock offset: -0.658 ms

Below is generated by plot.py at 2018-08-22 00:09:12
Datalink statistics
-- Total of 1 flow:
Average throughput: 849.41 Mbit/s
95th percentile per-packet one-way delay: 58.772 ms
Loss rate: 6.12%
-- Flow 1:
Average throughput: 849.41 Mbit/s
95th percentile per-packet one-way delay: 58.772 ms
Loss rate: 6.12%

Run 7: Report of FillP-Sheep — Data Link

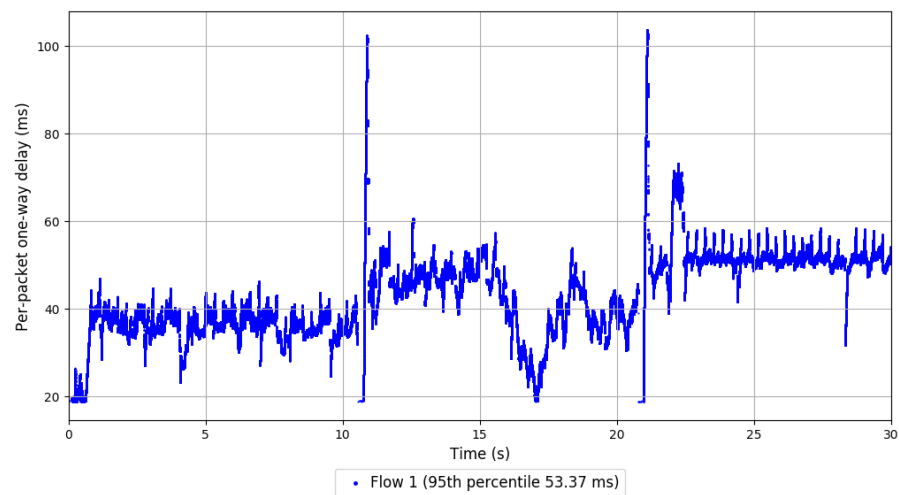
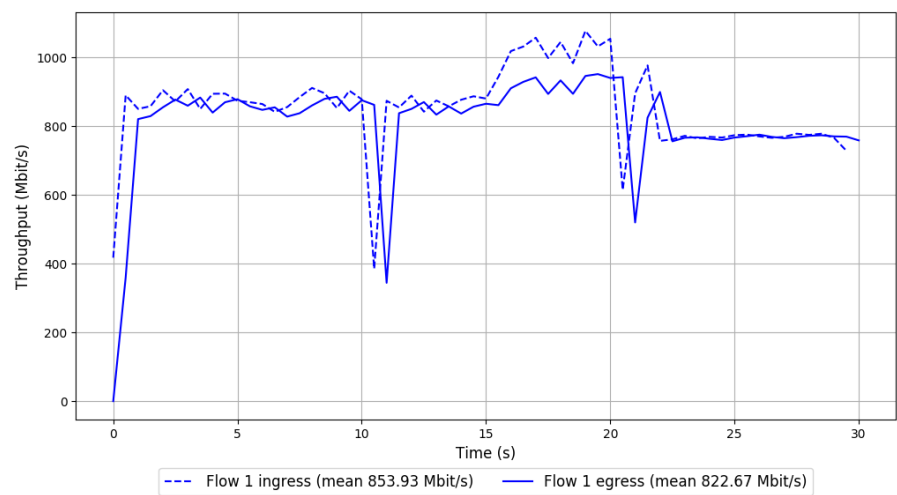


Run 8: Statistics of FillP-Sheep

Start at: 2018-08-21 22:16:43
End at: 2018-08-21 22:17:13
Local clock offset: -1.801 ms
Remote clock offset: 4.122 ms

Below is generated by plot.py at 2018-08-22 00:12:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 822.67 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 3.66%
-- Flow 1:
Average throughput: 822.67 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 3.66%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-21 22:42:06

End at: 2018-08-21 22:42:36

Local clock offset: -1.629 ms

Remote clock offset: 0.407 ms

Below is generated by plot.py at 2018-08-22 00:12:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 687.56 Mbit/s

95th percentile per-packet one-way delay: 52.090 ms

Loss rate: 3.02%

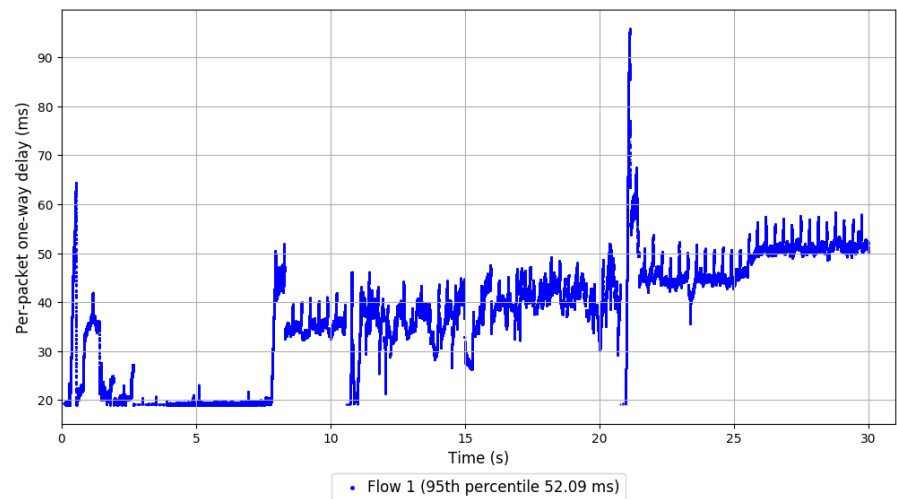
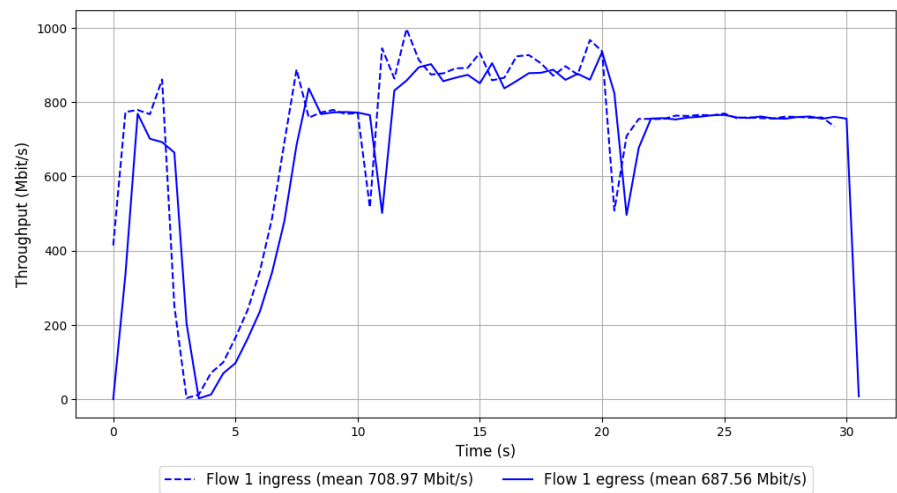
-- Flow 1:

Average throughput: 687.56 Mbit/s

95th percentile per-packet one-way delay: 52.090 ms

Loss rate: 3.02%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-21 23:07:05

End at: 2018-08-21 23:07:35

Local clock offset: 0.673 ms

Remote clock offset: 1.948 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 777.02 Mbit/s

95th percentile per-packet one-way delay: 48.445 ms

Loss rate: 4.90%

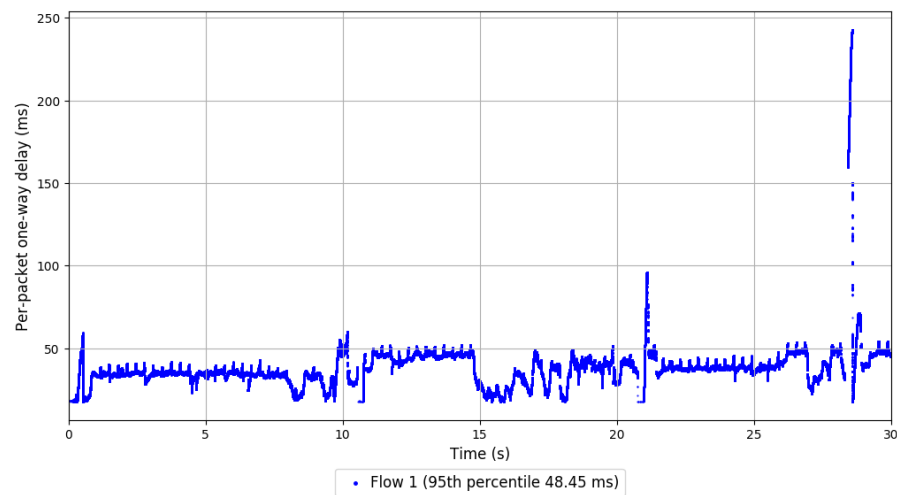
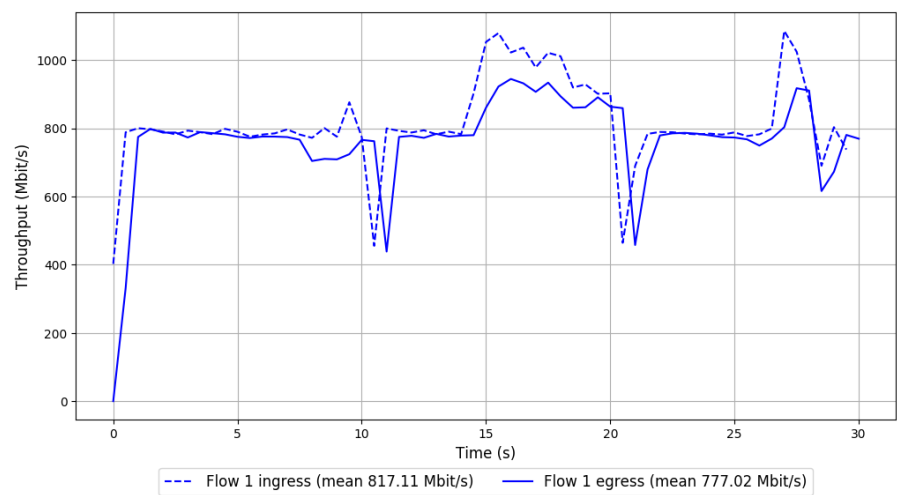
-- Flow 1:

Average throughput: 777.02 Mbit/s

95th percentile per-packet one-way delay: 48.445 ms

Loss rate: 4.90%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-08-21 19:01:22

End at: 2018-08-21 19:01:52

Local clock offset: -1.97 ms

Remote clock offset: 3.621 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 211.74 Mbit/s

95th percentile per-packet one-way delay: 23.272 ms

Loss rate: 0.09%

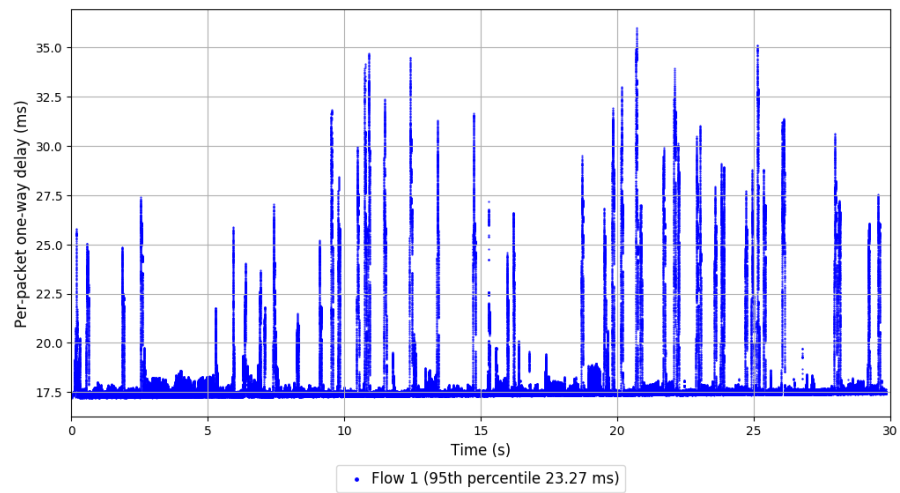
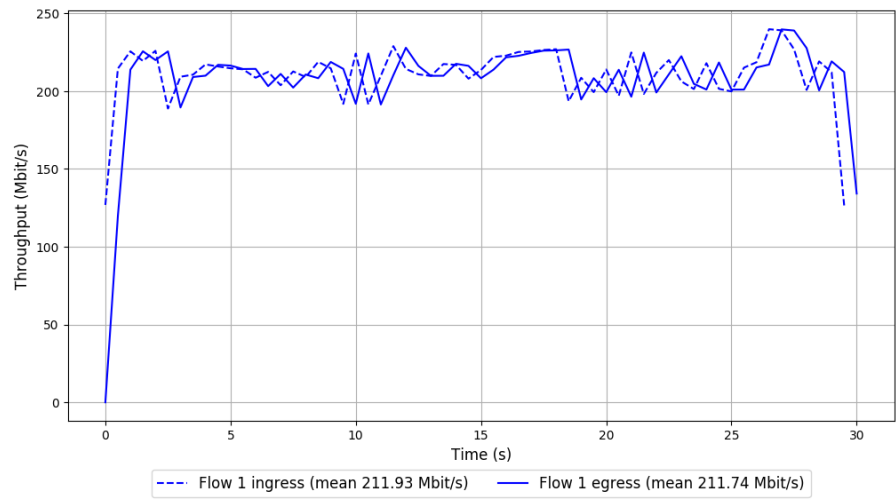
-- Flow 1:

Average throughput: 211.74 Mbit/s

95th percentile per-packet one-way delay: 23.272 ms

Loss rate: 0.09%

Run 1: Report of Indigo — Data Link

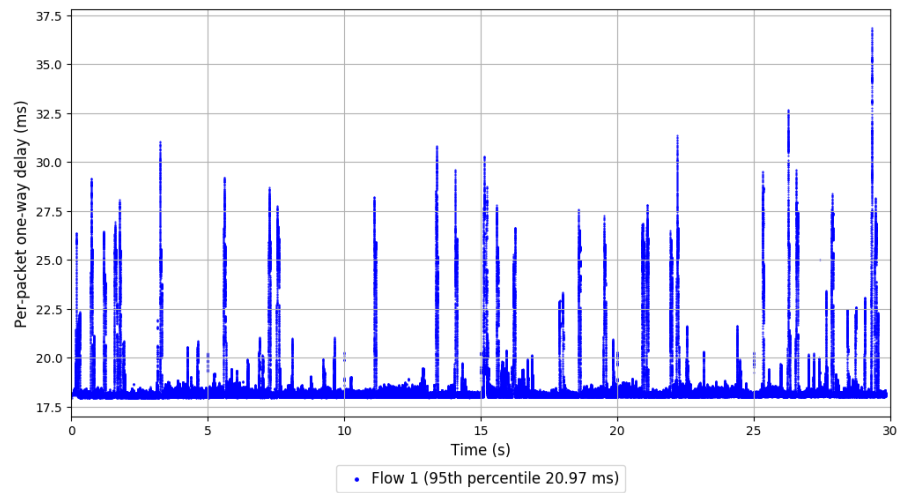
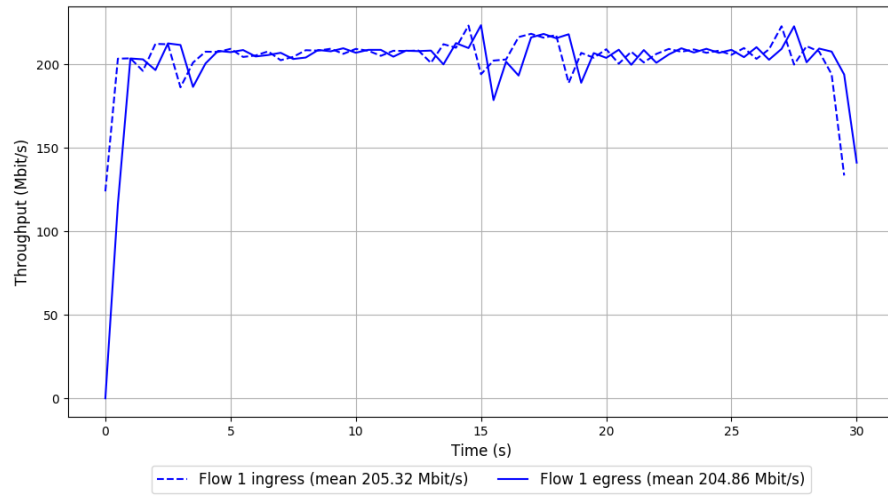


Run 2: Statistics of Indigo

Start at: 2018-08-21 19:26:46
End at: 2018-08-21 19:27:16
Local clock offset: 1.343 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-08-22 00:14:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.86 Mbit/s
95th percentile per-packet one-way delay: 20.968 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 204.86 Mbit/s
95th percentile per-packet one-way delay: 20.968 ms
Loss rate: 0.23%

Run 2: Report of Indigo — Data Link

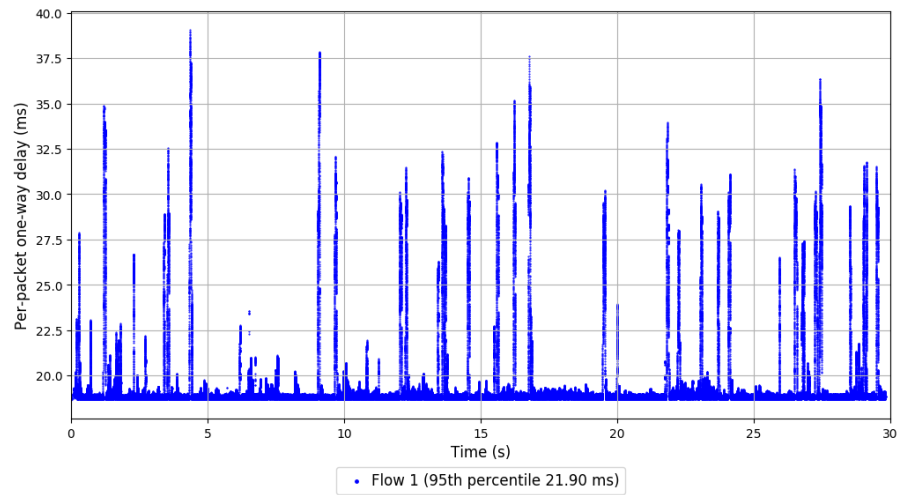
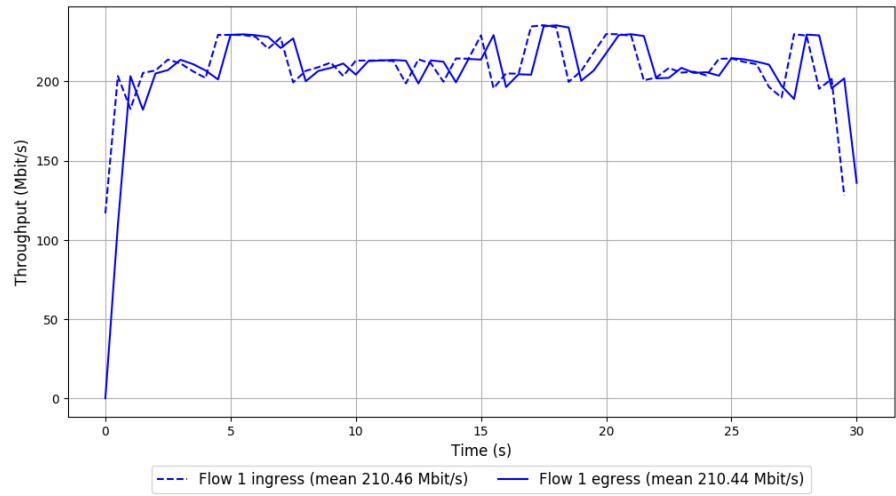


Run 3: Statistics of Indigo

Start at: 2018-08-21 19:51:55
End at: 2018-08-21 19:52:25
Local clock offset: 2.203 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-08-22 00:14:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 210.44 Mbit/s
95th percentile per-packet one-way delay: 21.899 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 210.44 Mbit/s
95th percentile per-packet one-way delay: 21.899 ms
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-21 20:17:09

End at: 2018-08-21 20:17:39

Local clock offset: 1.437 ms

Remote clock offset: 2.214 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.78 Mbit/s

95th percentile per-packet one-way delay: 19.425 ms

Loss rate: 0.09%

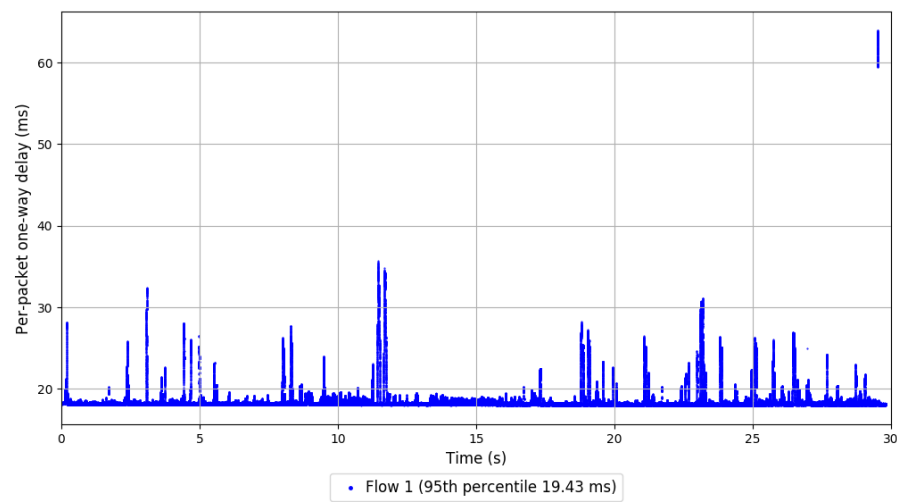
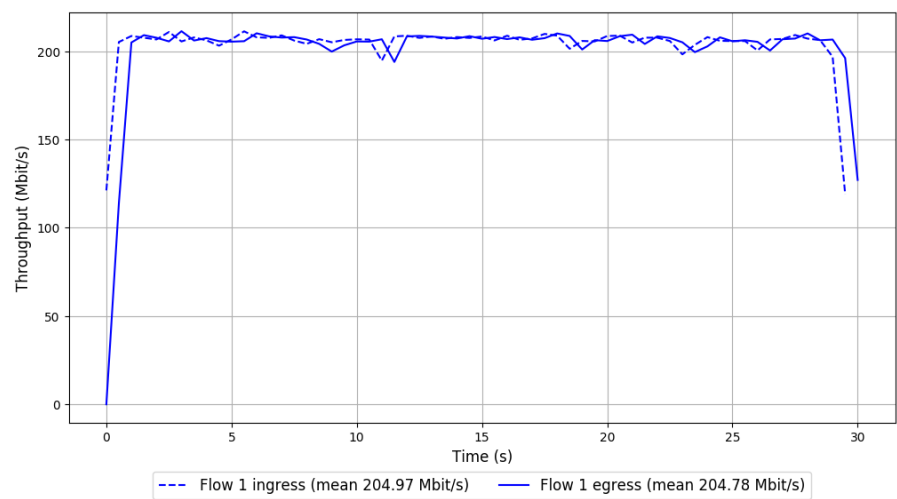
-- Flow 1:

Average throughput: 204.78 Mbit/s

95th percentile per-packet one-way delay: 19.425 ms

Loss rate: 0.09%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-21 20:42:06

End at: 2018-08-21 20:42:36

Local clock offset: 0.88 ms

Remote clock offset: 4.122 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.37 Mbit/s

95th percentile per-packet one-way delay: 20.212 ms

Loss rate: 0.00%

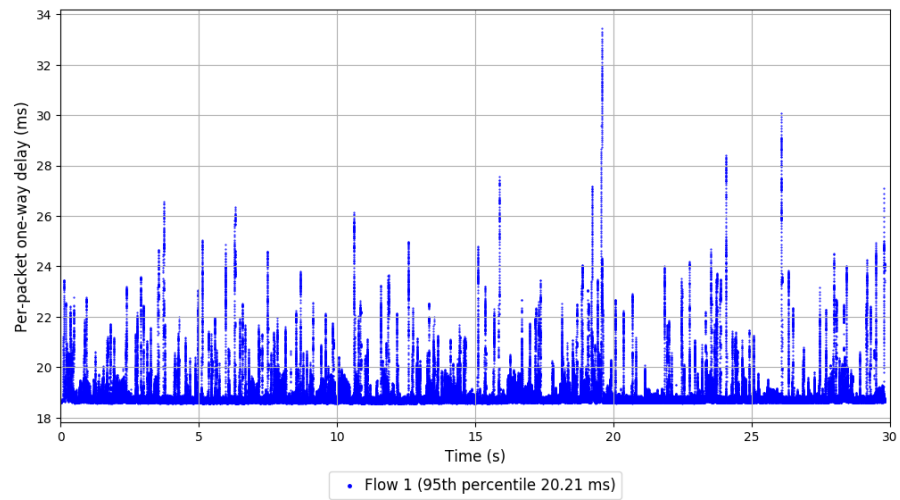
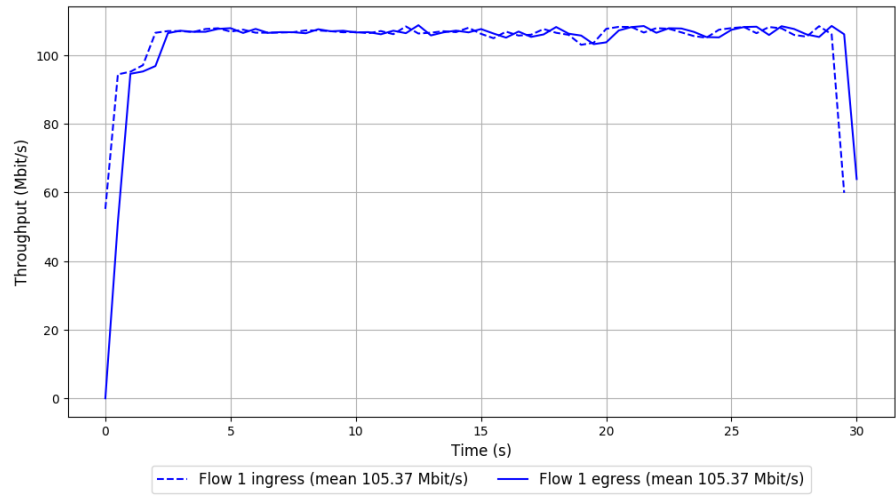
-- Flow 1:

Average throughput: 105.37 Mbit/s

95th percentile per-packet one-way delay: 20.212 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

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

End at: 2018-08-21 21:07:38

Local clock offset: 0.689 ms

Remote clock offset: 3.418 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 204.53 Mbit/s

95th percentile per-packet one-way delay: 22.541 ms

Loss rate: 0.30%

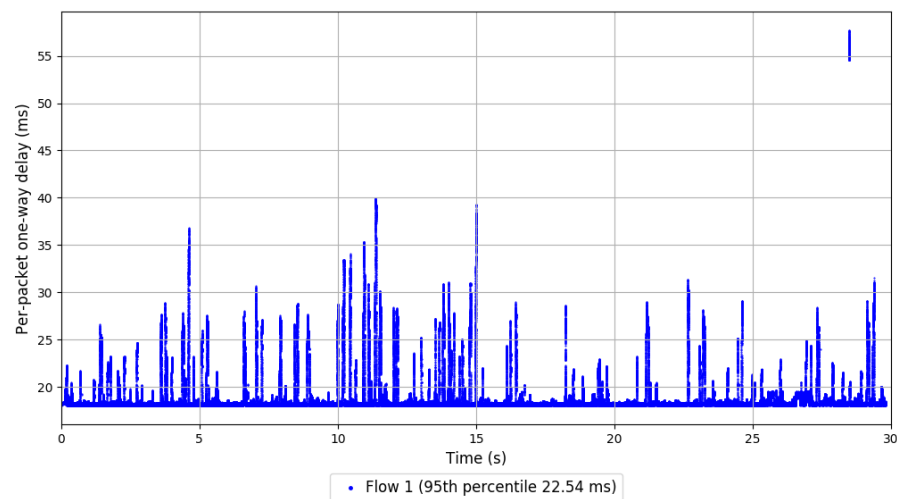
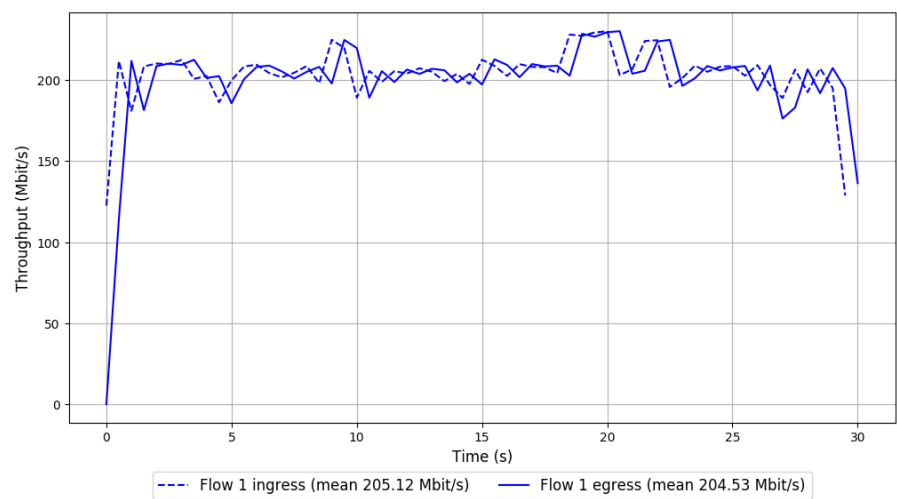
-- Flow 1:

Average throughput: 204.53 Mbit/s

95th percentile per-packet one-way delay: 22.541 ms

Loss rate: 0.30%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-21 21:32:08

End at: 2018-08-21 21:32:38

Local clock offset: 1.584 ms

Remote clock offset: 0.114 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.98 Mbit/s

95th percentile per-packet one-way delay: 19.696 ms

Loss rate: 0.01%

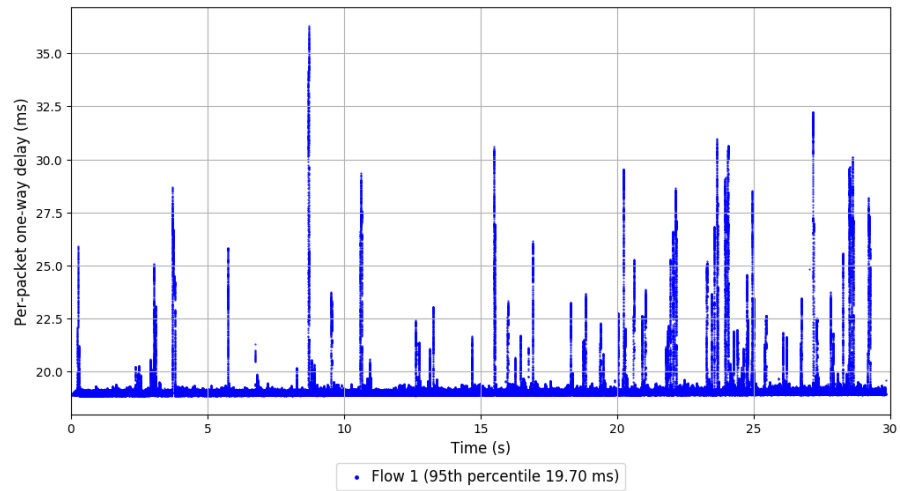
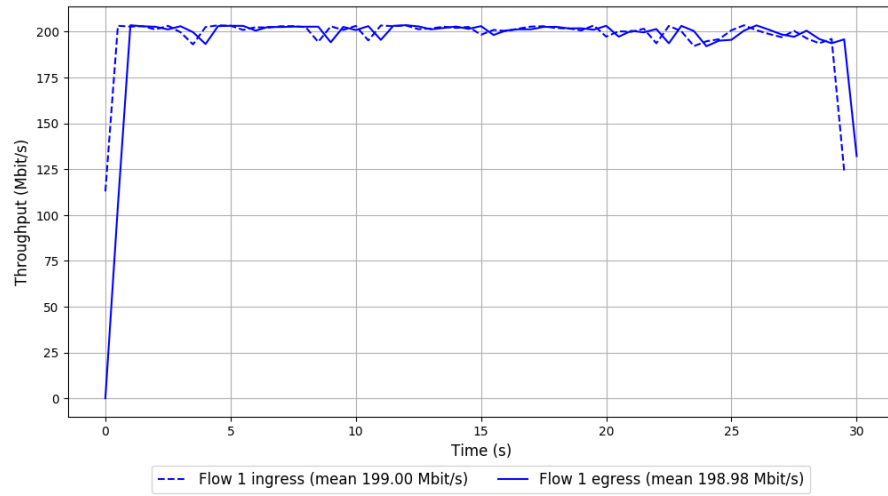
-- Flow 1:

Average throughput: 198.98 Mbit/s

95th percentile per-packet one-way delay: 19.696 ms

Loss rate: 0.01%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-21 21:57:30

End at: 2018-08-21 21:58:00

Local clock offset: 0.188 ms

Remote clock offset: 1.427 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 201.56 Mbit/s

95th percentile per-packet one-way delay: 19.424 ms

Loss rate: 0.00%

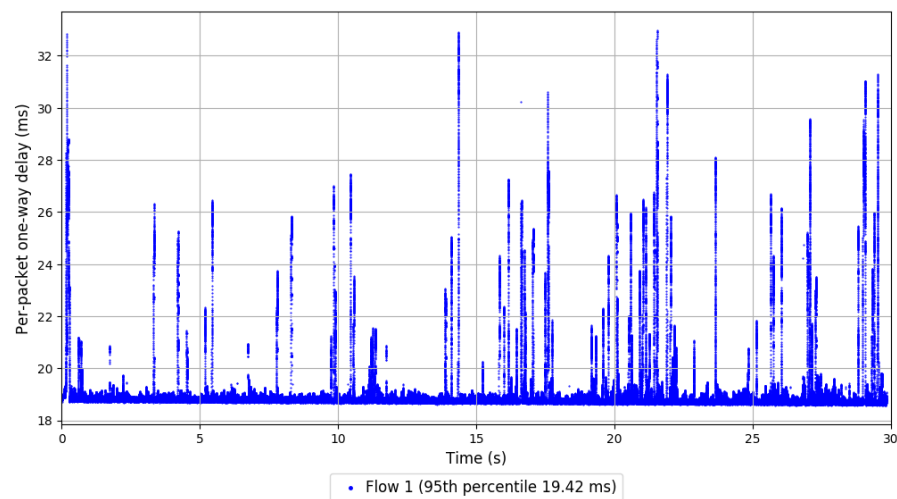
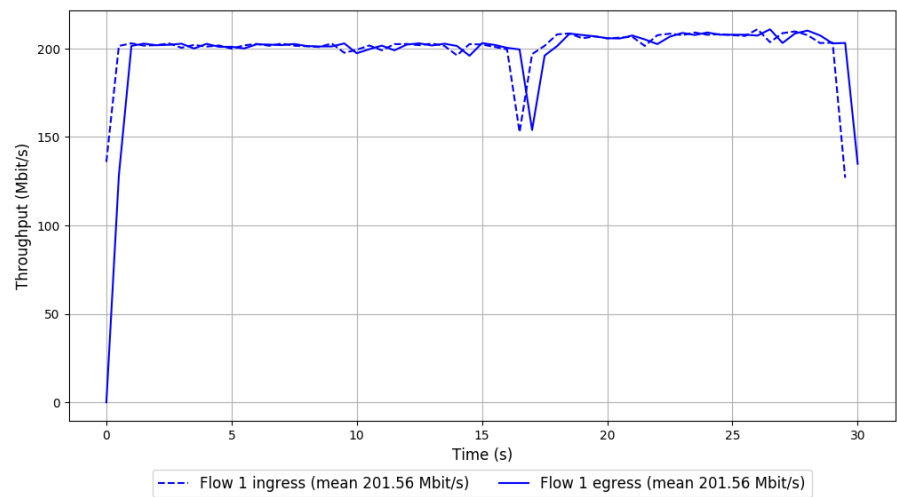
-- Flow 1:

Average throughput: 201.56 Mbit/s

95th percentile per-packet one-way delay: 19.424 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-21 22:22:47

End at: 2018-08-21 22:23:17

Local clock offset: -2.395 ms

Remote clock offset: 4.469 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 20.512 ms

Loss rate: 0.15%

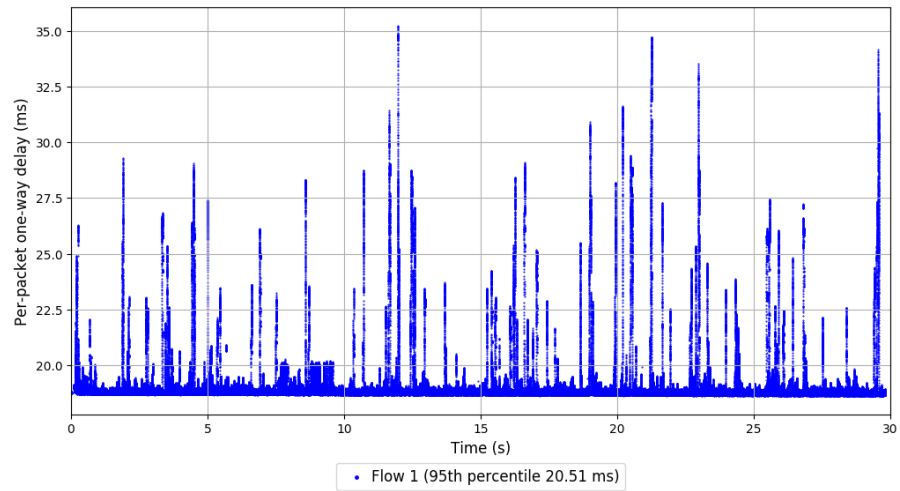
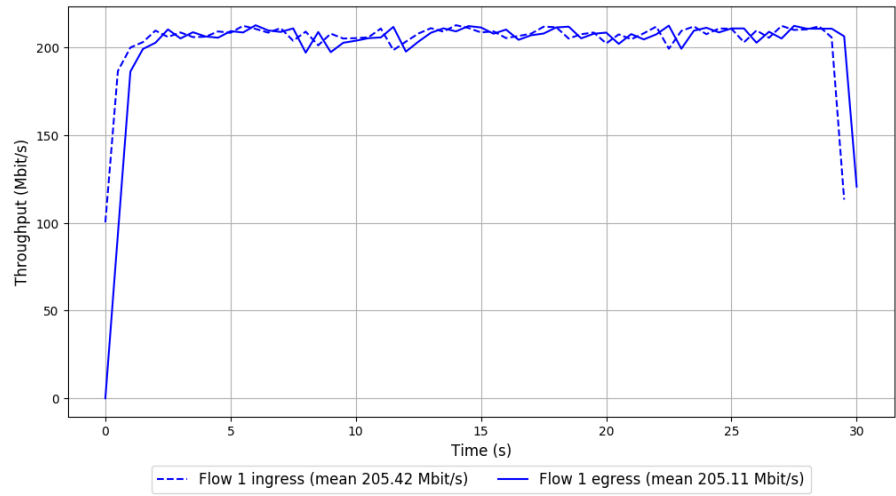
-- Flow 1:

Average throughput: 205.11 Mbit/s

95th percentile per-packet one-way delay: 20.512 ms

Loss rate: 0.15%

Run 9: Report of Indigo — Data Link

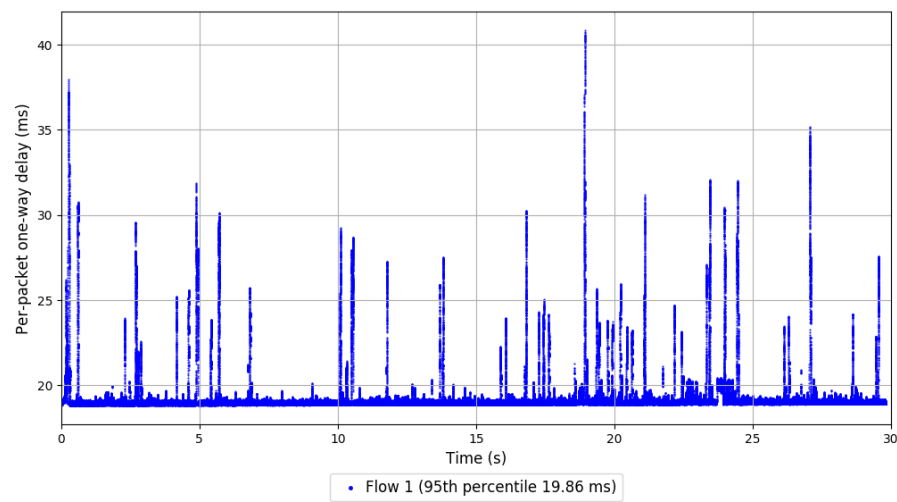
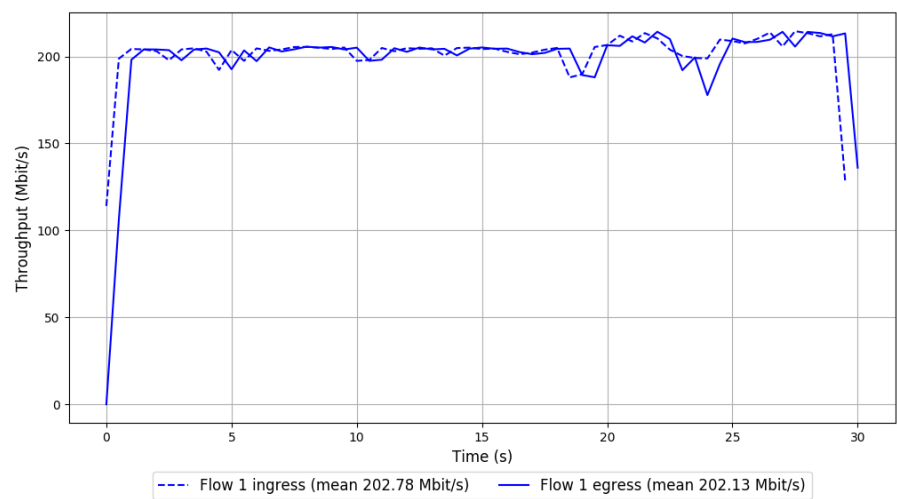


Run 10: Statistics of Indigo

Start at: 2018-08-21 22:48:06
End at: 2018-08-21 22:48:37
Local clock offset: -0.574 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-08-22 00:14:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.13 Mbit/s
95th percentile per-packet one-way delay: 19.863 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 202.13 Mbit/s
95th percentile per-packet one-way delay: 19.863 ms
Loss rate: 0.32%

Run 10: Report of Indigo — Data Link

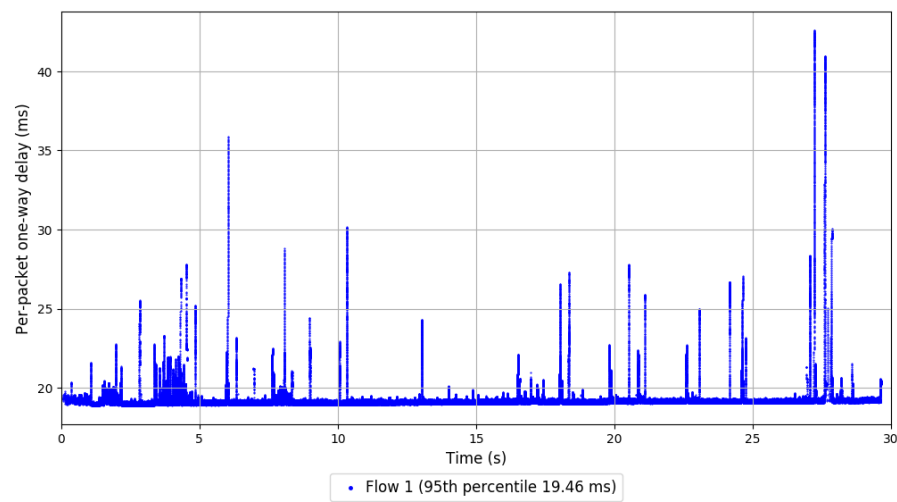
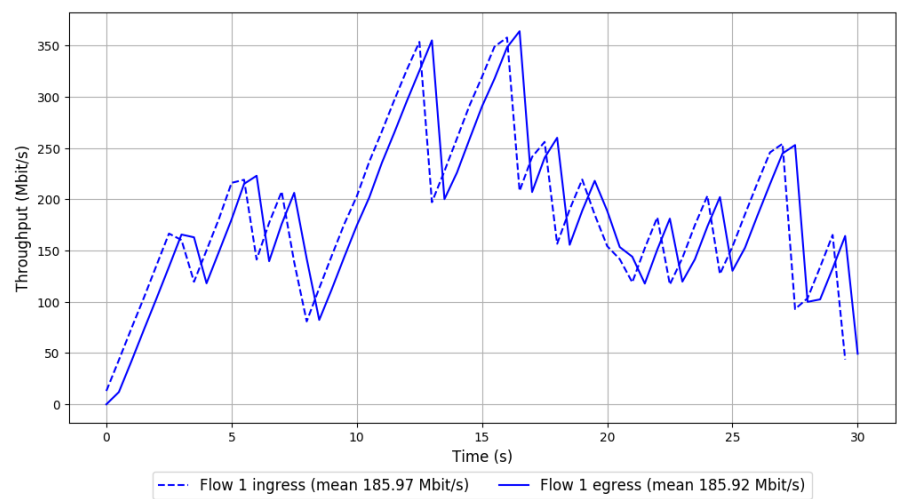


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-21 19:10:08
End at: 2018-08-21 19:10:38
Local clock offset: -1.25 ms
Remote clock offset: 1.301 ms

# Below is generated by plot.py at 2018-08-22 00:14:31
# Datalink statistics
-- Total of 1 flow:
Average throughput: 185.92 Mbit/s
95th percentile per-packet one-way delay: 19.464 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 185.92 Mbit/s
95th percentile per-packet one-way delay: 19.464 ms
Loss rate: 0.02%
```


Run 1: Report of LEDBAT — Data Link

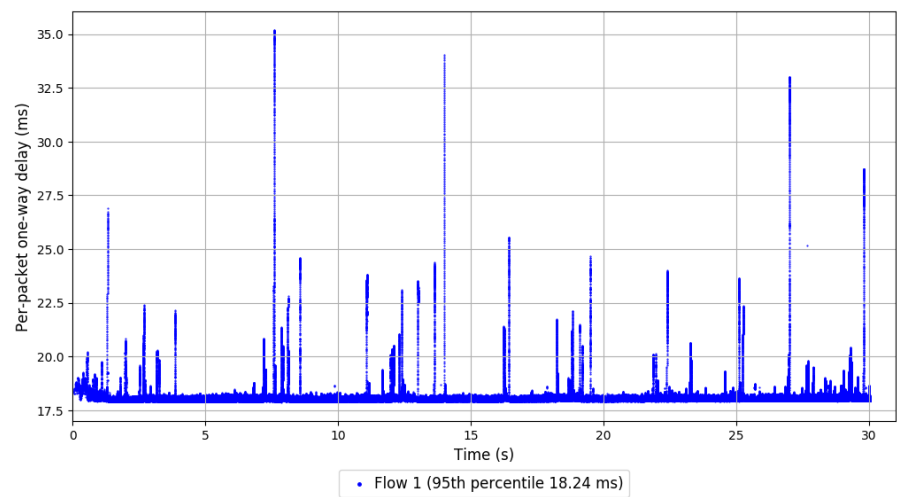
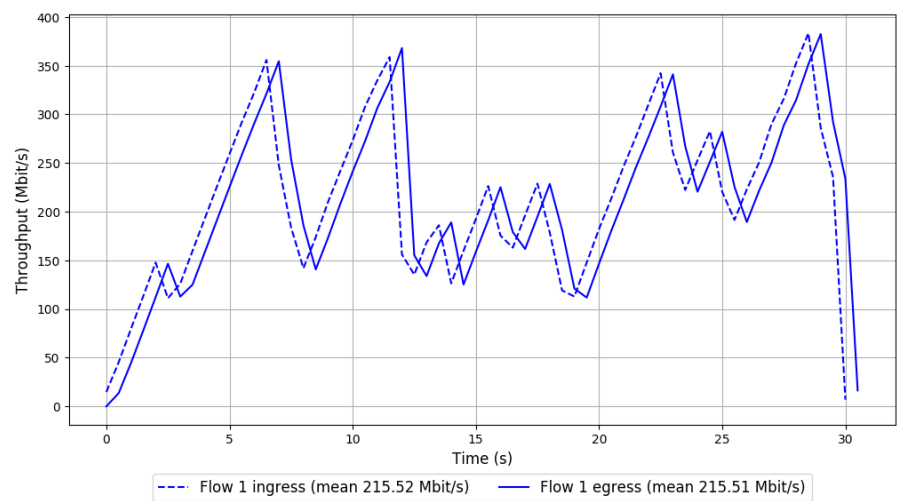


Run 2: Statistics of LEDBAT

Start at: 2018-08-21 19:35:27
End at: 2018-08-21 19:35:57
Local clock offset: 2.053 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-08-22 00:14:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 215.51 Mbit/s
95th percentile per-packet one-way delay: 18.237 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 215.51 Mbit/s
95th percentile per-packet one-way delay: 18.237 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

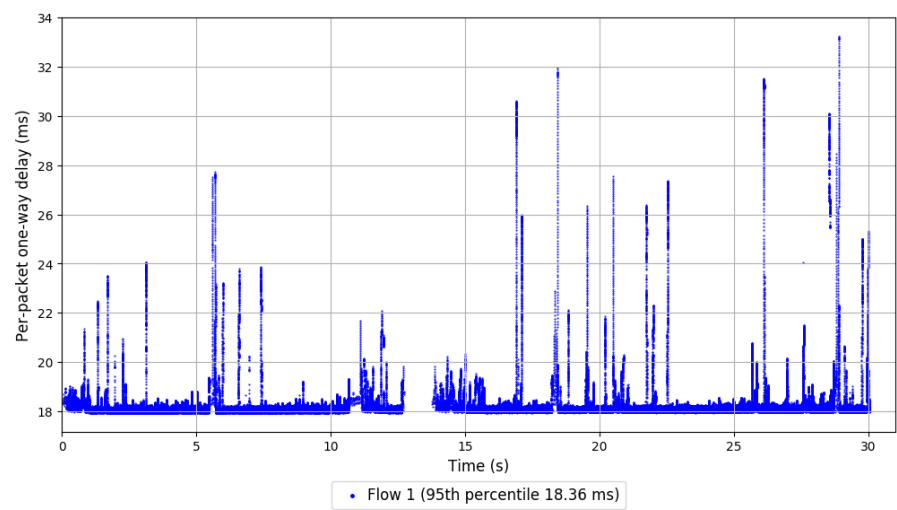
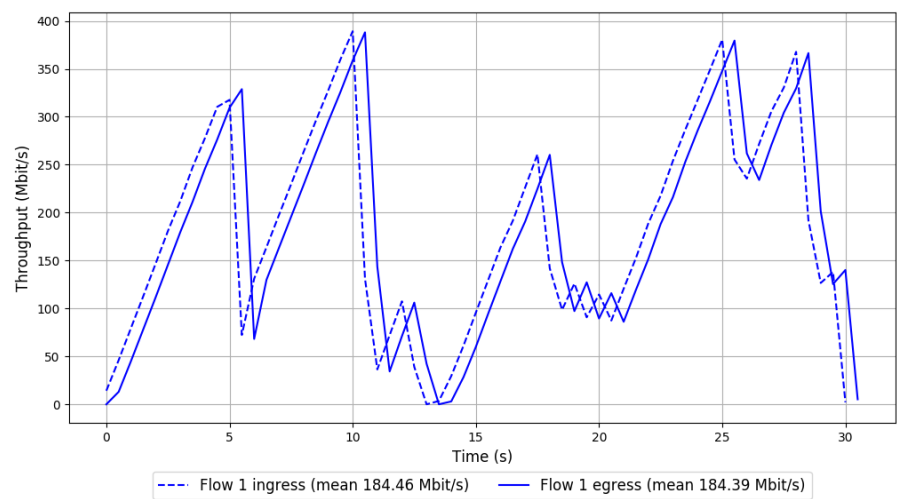


Run 3: Statistics of LEDBAT

Start at: 2018-08-21 20:00:38
End at: 2018-08-21 20:01:08
Local clock offset: 2.616 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-08-22 00:14:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.39 Mbit/s
95th percentile per-packet one-way delay: 18.359 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 184.39 Mbit/s
95th percentile per-packet one-way delay: 18.359 ms
Loss rate: 0.04%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-21 20:25:50

End at: 2018-08-21 20:26:20

Local clock offset: 1.07 ms

Remote clock offset: 3.149 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.75 Mbit/s

95th percentile per-packet one-way delay: 18.946 ms

Loss rate: 0.01%

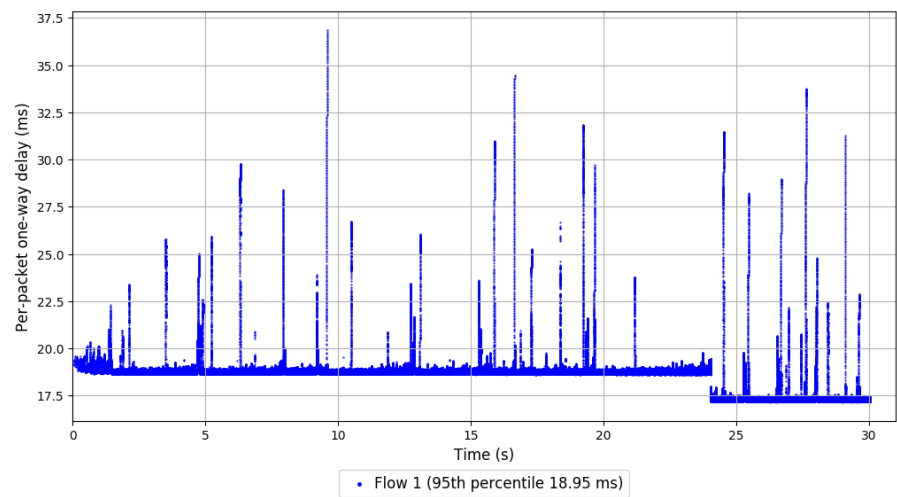
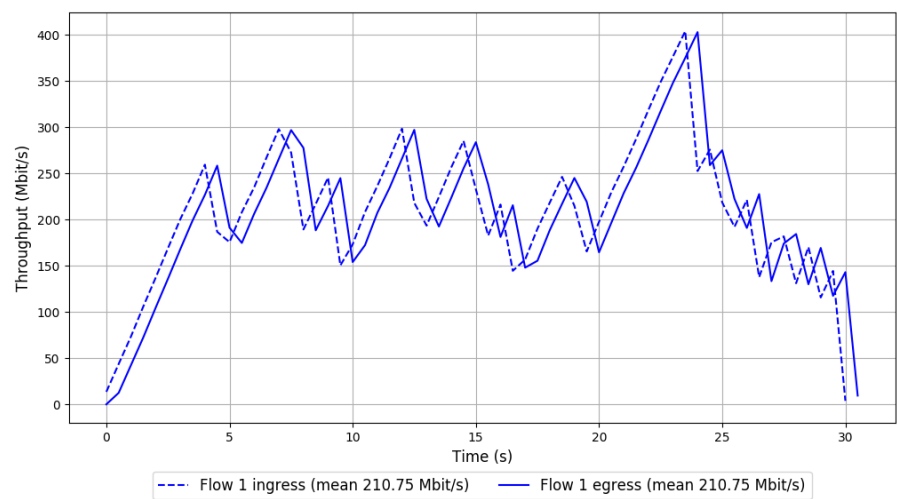
-- Flow 1:

Average throughput: 210.75 Mbit/s

95th percentile per-packet one-way delay: 18.946 ms

Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-21 20:50:43

End at: 2018-08-21 20:51:13

Local clock offset: 0.727 ms

Remote clock offset: 3.486 ms

Below is generated by plot.py at 2018-08-22 00:14:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.74 Mbit/s

95th percentile per-packet one-way delay: 17.713 ms

Loss rate: 0.03%

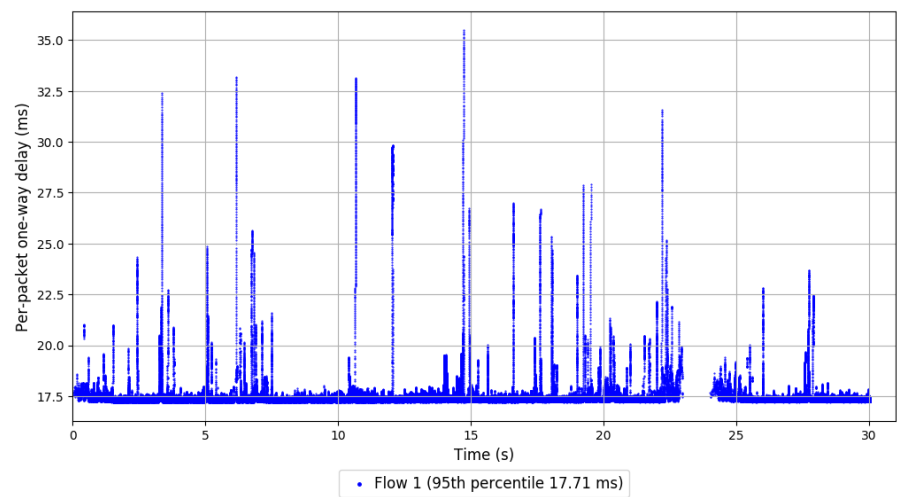
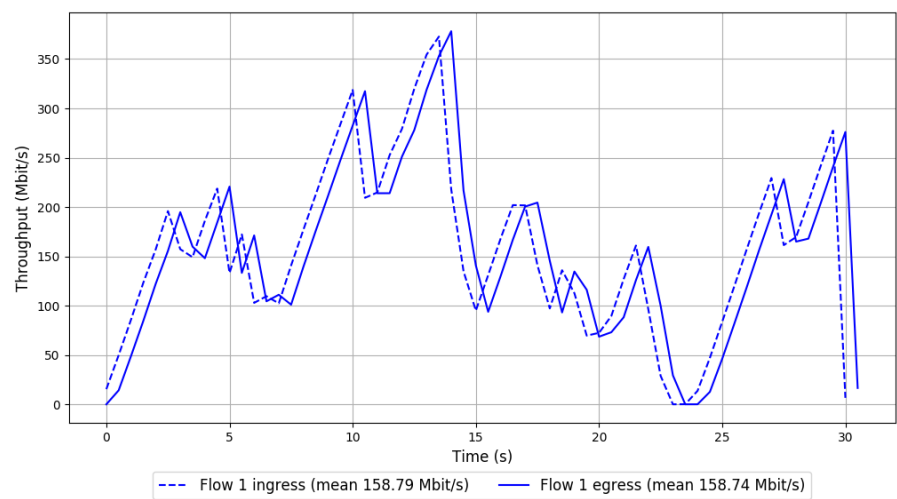
-- Flow 1:

Average throughput: 158.74 Mbit/s

95th percentile per-packet one-way delay: 17.713 ms

Loss rate: 0.03%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-21 21:15:50

End at: 2018-08-21 21:16:20

Local clock offset: 1.157 ms

Remote clock offset: 3.488 ms

Below is generated by plot.py at 2018-08-22 00:15:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.61 Mbit/s

95th percentile per-packet one-way delay: 19.002 ms

Loss rate: 0.01%

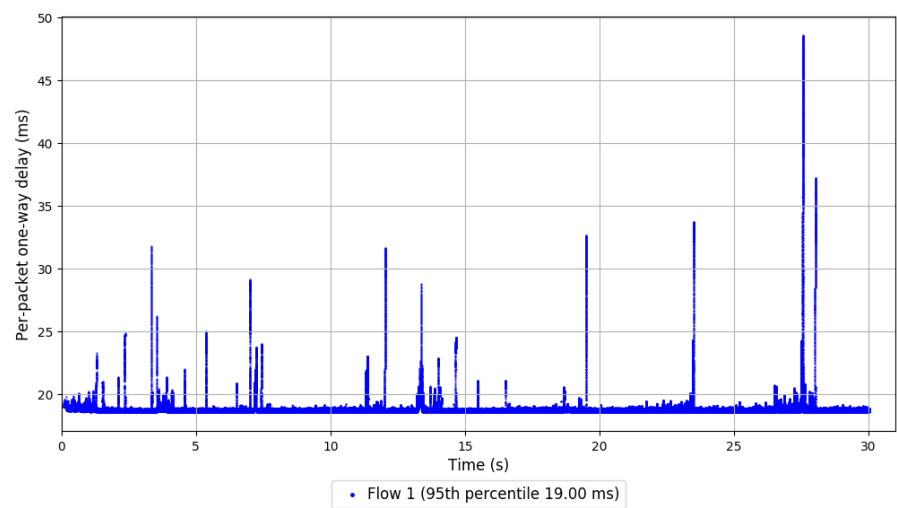
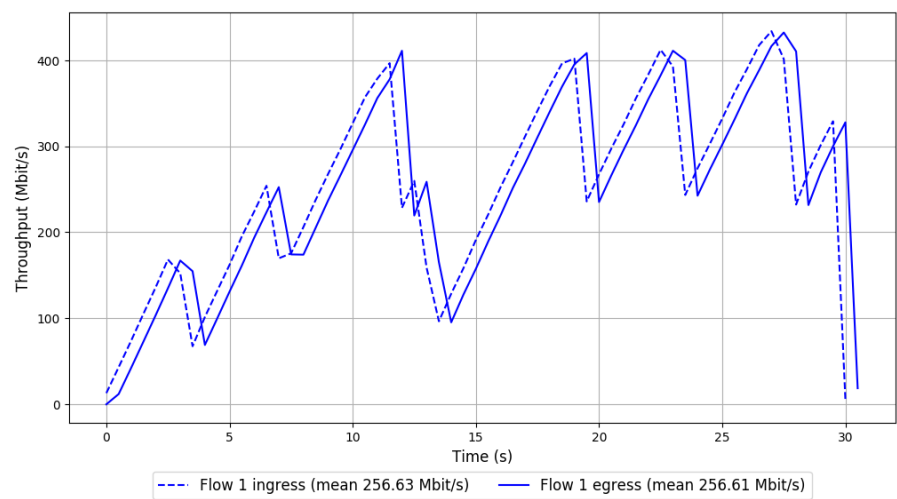
-- Flow 1:

Average throughput: 256.61 Mbit/s

95th percentile per-packet one-way delay: 19.002 ms

Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link

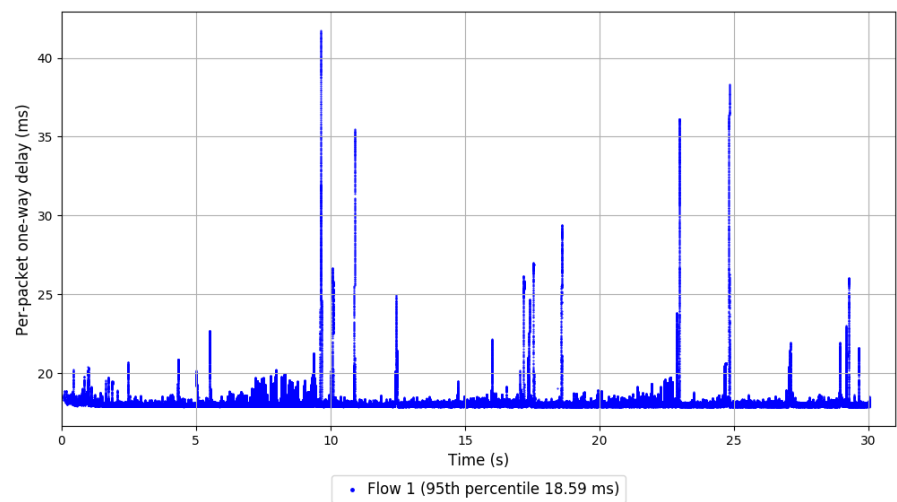
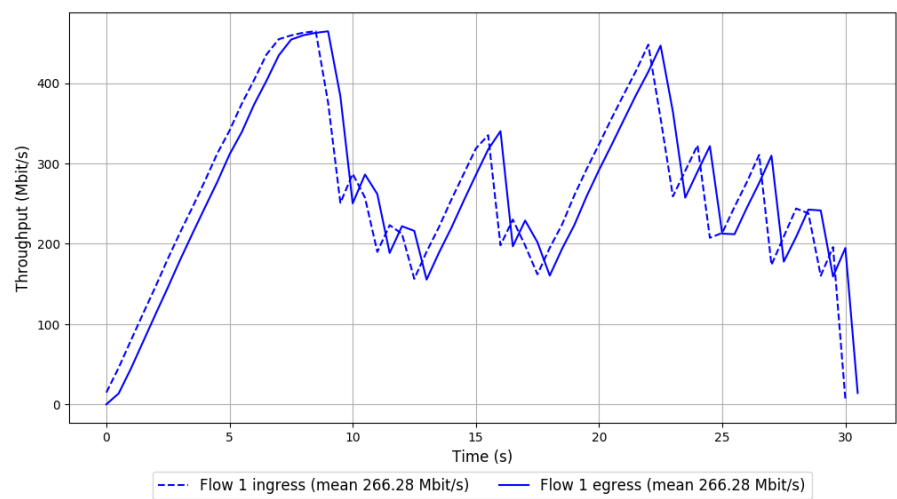


Run 7: Statistics of LEDBAT

Start at: 2018-08-21 21:40:57
End at: 2018-08-21 21:41:27
Local clock offset: 1.134 ms
Remote clock offset: -0.521 ms

Below is generated by plot.py at 2018-08-22 00:15:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 266.28 Mbit/s
95th percentile per-packet one-way delay: 18.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 266.28 Mbit/s
95th percentile per-packet one-way delay: 18.594 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-21 22:06:16

End at: 2018-08-21 22:06:46

Local clock offset: 0.033 ms

Remote clock offset: 3.06 ms

Below is generated by plot.py at 2018-08-22 00:15:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.28 Mbit/s

95th percentile per-packet one-way delay: 20.236 ms

Loss rate: 0.04%

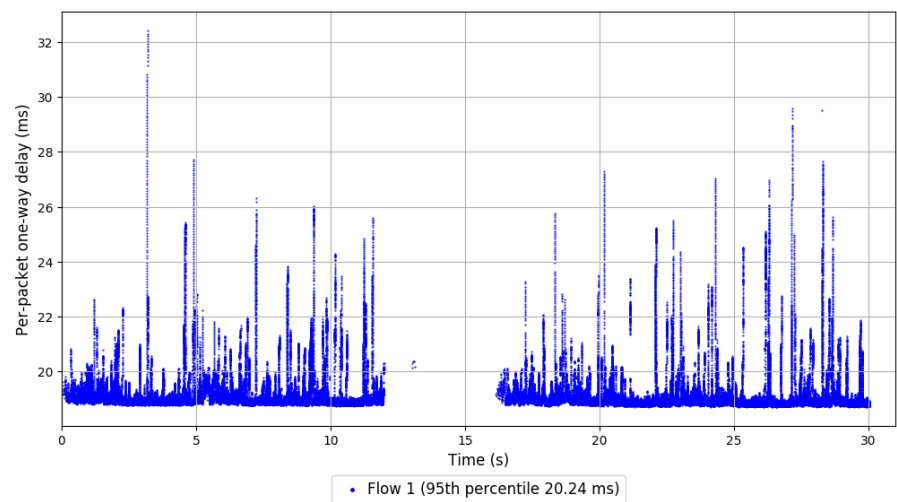
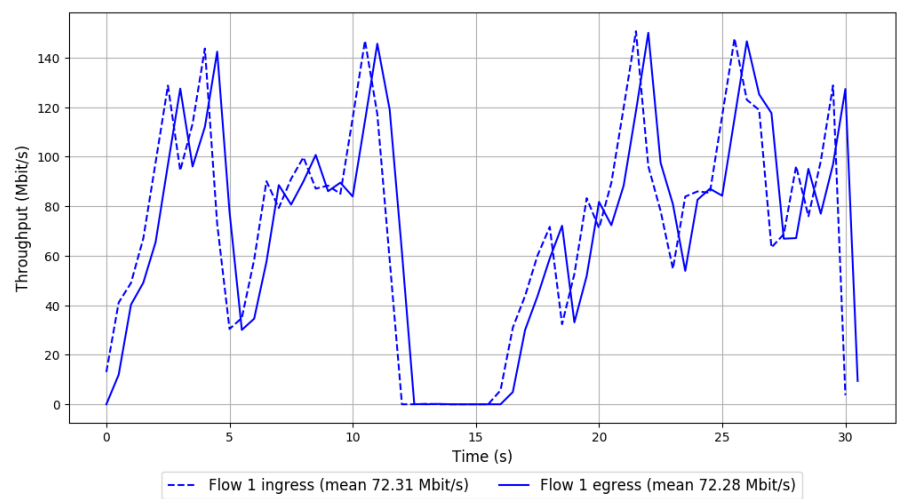
-- Flow 1:

Average throughput: 72.28 Mbit/s

95th percentile per-packet one-way delay: 20.236 ms

Loss rate: 0.04%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-21 22:31:31

End at: 2018-08-21 22:32:01

Local clock offset: -2.979 ms

Remote clock offset: 2.027 ms

Below is generated by plot.py at 2018-08-22 00:15:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 269.16 Mbit/s

95th percentile per-packet one-way delay: 18.414 ms

Loss rate: 0.02%

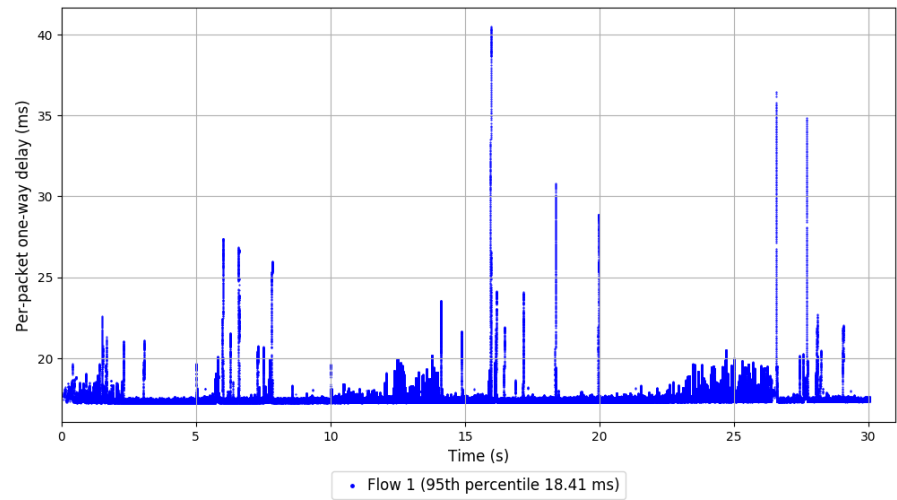
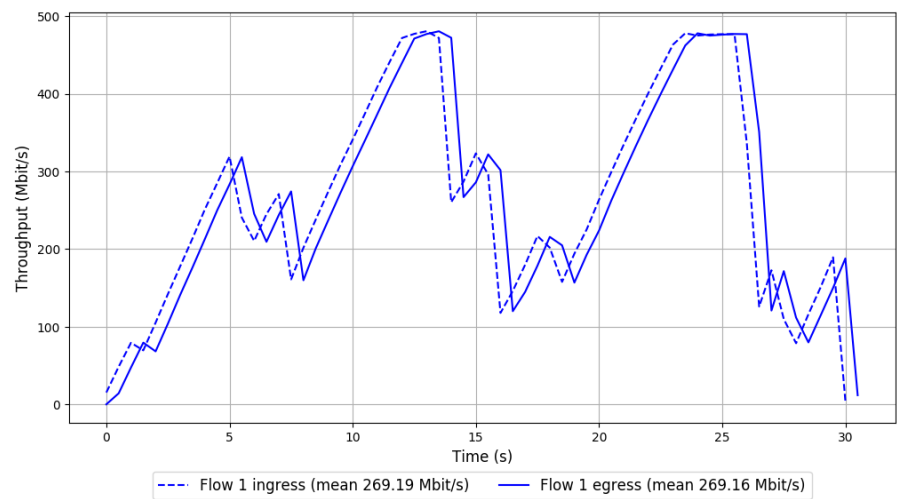
-- Flow 1:

Average throughput: 269.16 Mbit/s

95th percentile per-packet one-way delay: 18.414 ms

Loss rate: 0.02%

Run 9: Report of LEDBAT — Data Link

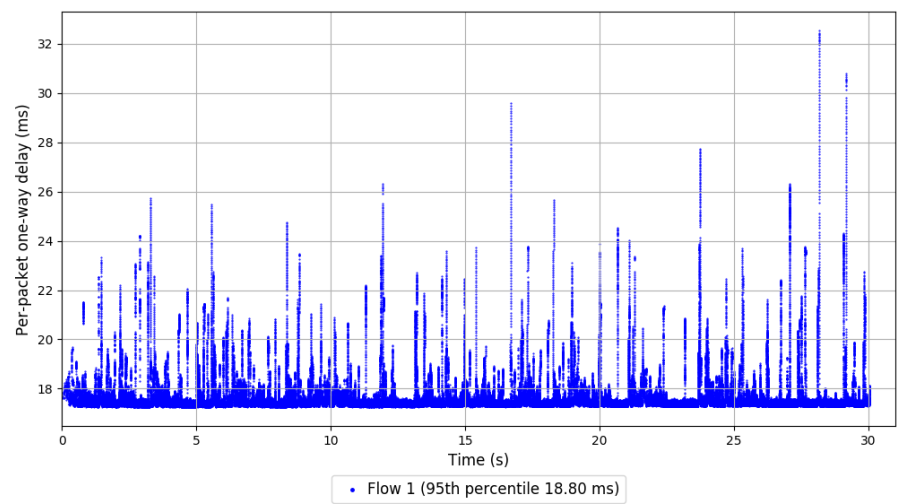
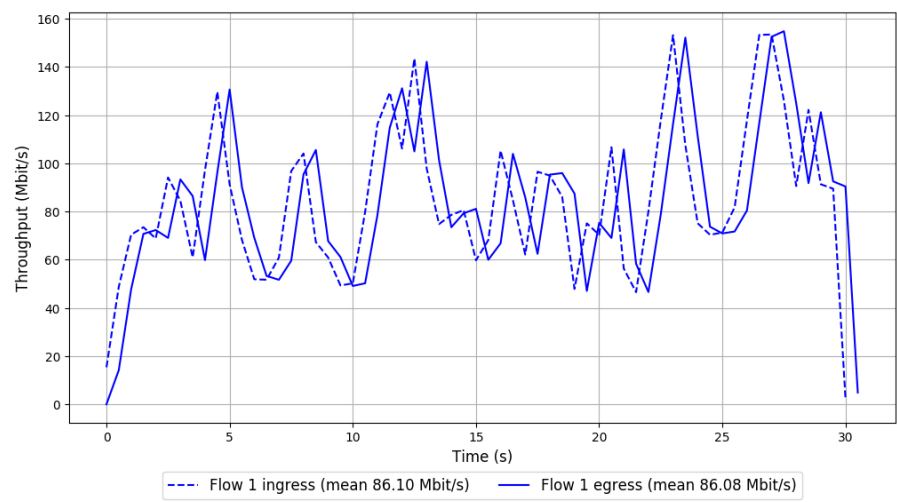


Run 10: Statistics of LEDBAT

Start at: 2018-08-21 22:56:48
End at: 2018-08-21 22:57:18
Local clock offset: 0.337 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-08-22 00:15:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 18.799 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 18.799 ms
Loss rate: 0.03%

Run 10: Report of LEDBAT — Data Link

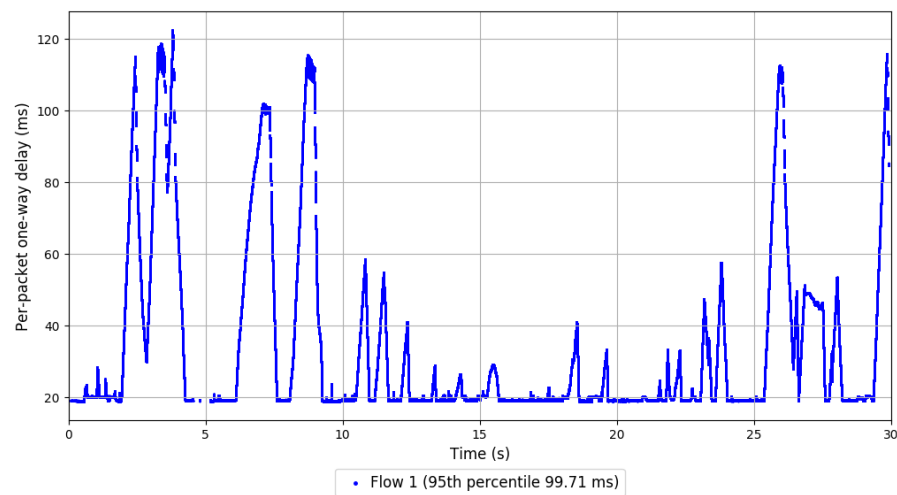
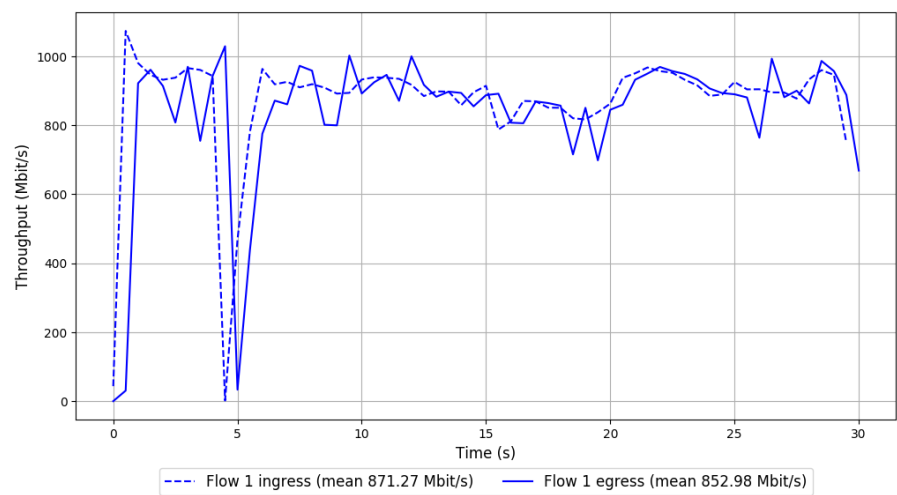


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-21 19:05:44
End at: 2018-08-21 19:06:14
Local clock offset: -2.103 ms
Remote clock offset: 2.207 ms

# Below is generated by plot.py at 2018-08-22 00:24:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 852.98 Mbit/s
95th percentile per-packet one-way delay: 99.709 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 852.98 Mbit/s
95th percentile per-packet one-way delay: 99.709 ms
Loss rate: 2.10%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-21 19:31:08

End at: 2018-08-21 19:31:38

Local clock offset: 1.677 ms

Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-08-22 00:24:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 888.35 Mbit/s

95th percentile per-packet one-way delay: 37.691 ms

Loss rate: 0.62%

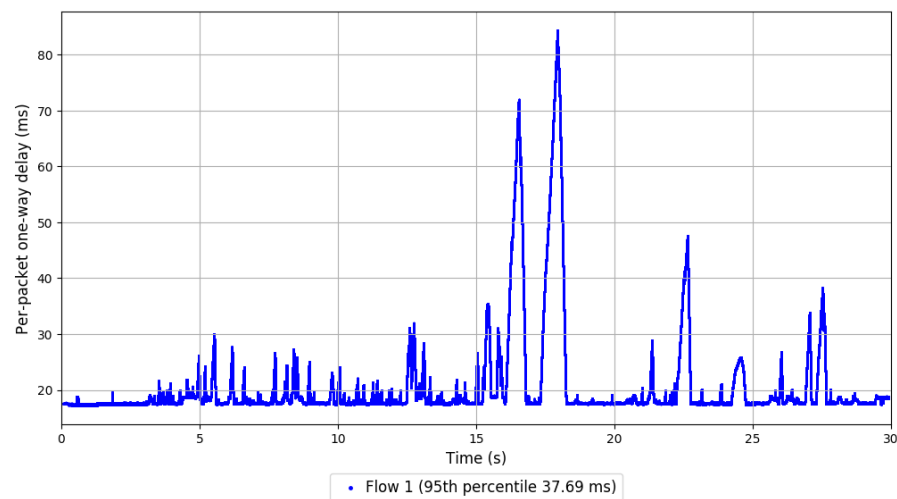
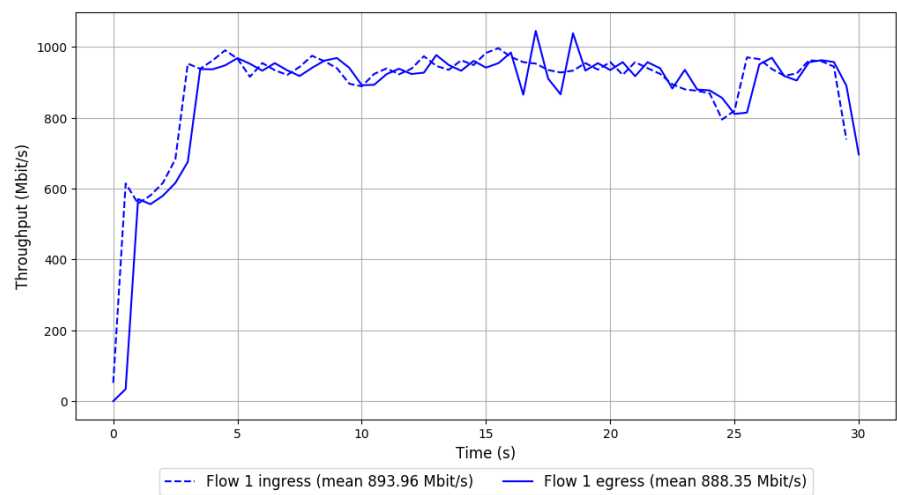
-- Flow 1:

Average throughput: 888.35 Mbit/s

95th percentile per-packet one-way delay: 37.691 ms

Loss rate: 0.62%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-21 19:56:17

End at: 2018-08-21 19:56:47

Local clock offset: 2.399 ms

Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-08-22 00:24:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 899.44 Mbit/s

95th percentile per-packet one-way delay: 41.218 ms

Loss rate: 0.58%

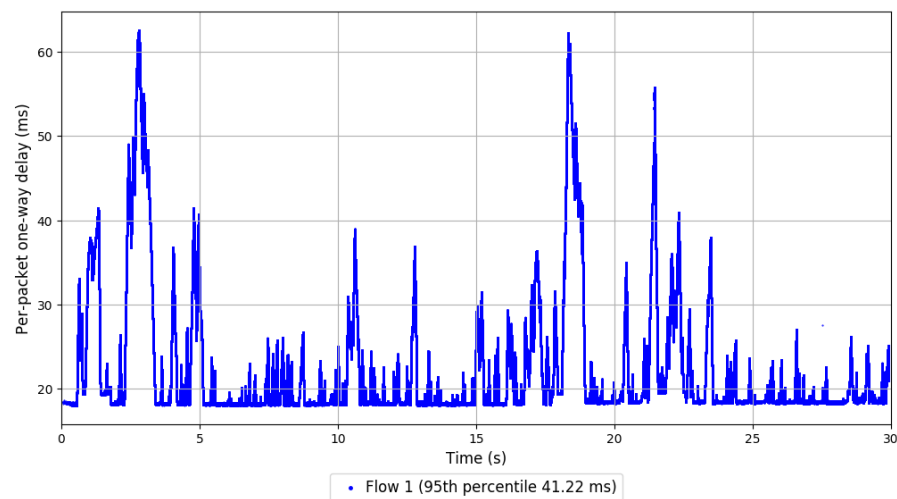
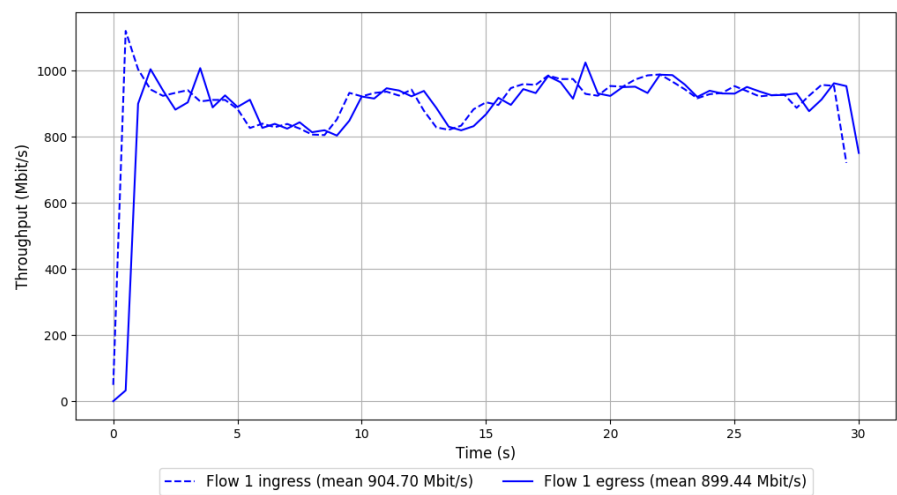
-- Flow 1:

Average throughput: 899.44 Mbit/s

95th percentile per-packet one-way delay: 41.218 ms

Loss rate: 0.58%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-21 20:21:31

End at: 2018-08-21 20:22:01

Local clock offset: 1.256 ms

Remote clock offset: 2.698 ms

Below is generated by plot.py at 2018-08-22 00:24:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 837.26 Mbit/s

95th percentile per-packet one-way delay: 31.990 ms

Loss rate: 0.98%

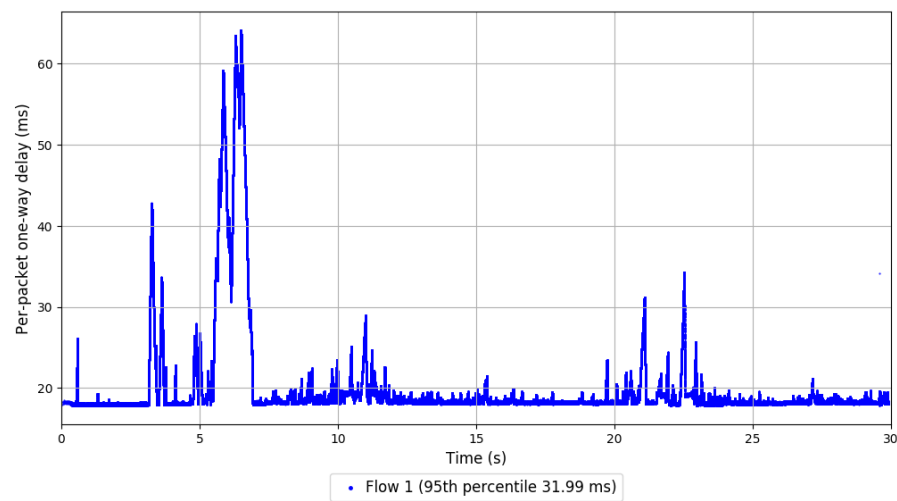
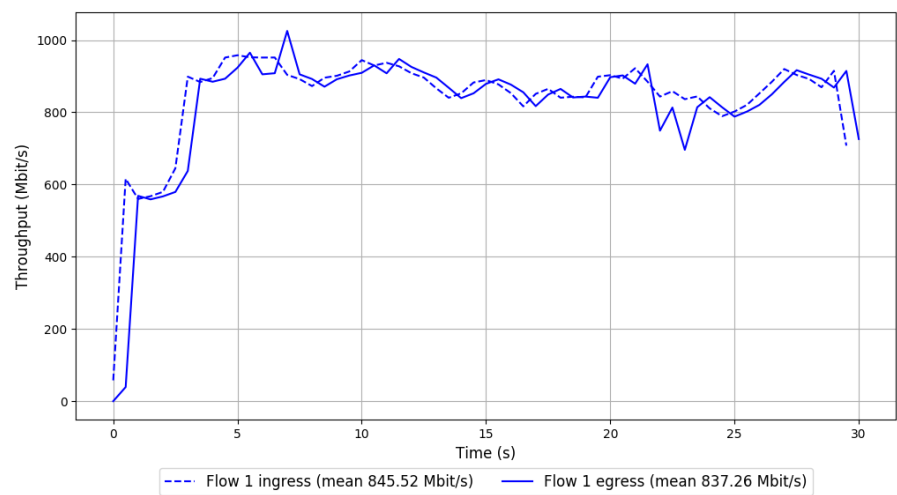
-- Flow 1:

Average throughput: 837.26 Mbit/s

95th percentile per-packet one-way delay: 31.990 ms

Loss rate: 0.98%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-21 20:46:23

End at: 2018-08-21 20:46:53

Local clock offset: 0.788 ms

Remote clock offset: 3.724 ms

Below is generated by plot.py at 2018-08-22 00:25:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 885.98 Mbit/s

95th percentile per-packet one-way delay: 33.008 ms

Loss rate: 1.53%

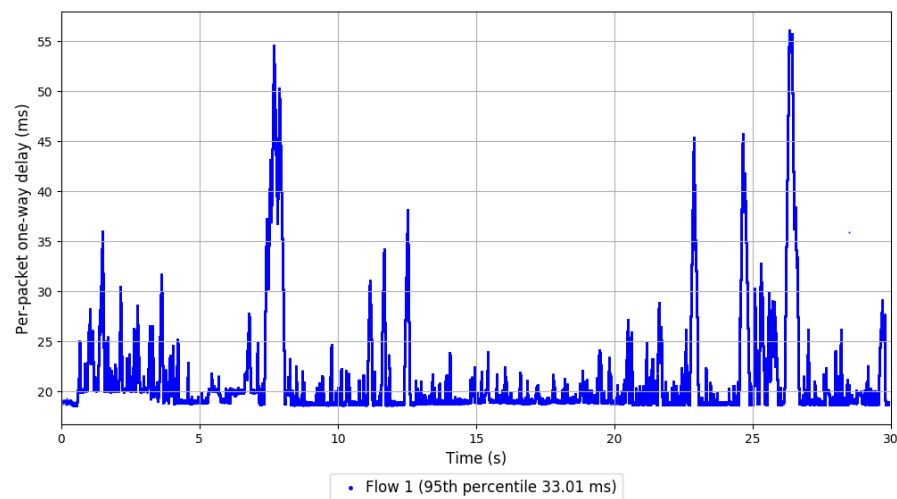
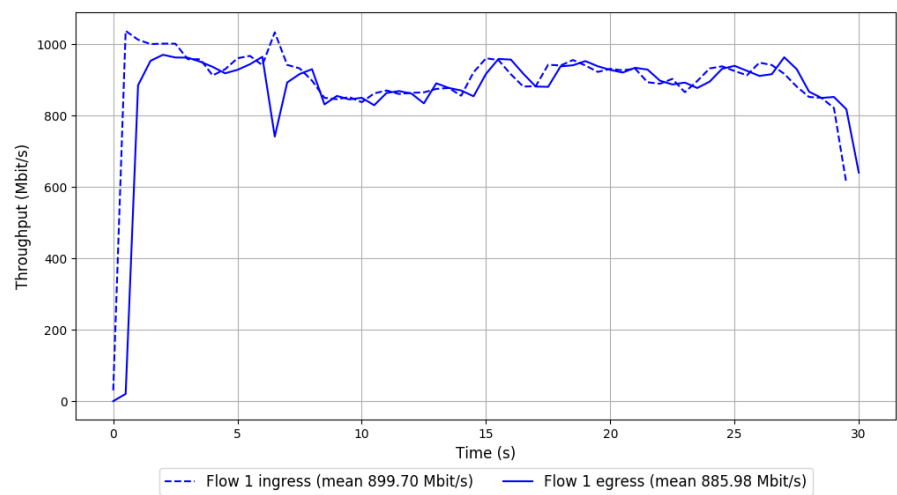
-- Flow 1:

Average throughput: 885.98 Mbit/s

95th percentile per-packet one-way delay: 33.008 ms

Loss rate: 1.53%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-21 21:11:29

End at: 2018-08-21 21:11:59

Local clock offset: 0.969 ms

Remote clock offset: 3.491 ms

Below is generated by plot.py at 2018-08-22 00:25:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 896.06 Mbit/s

95th percentile per-packet one-way delay: 25.667 ms

Loss rate: 0.40%

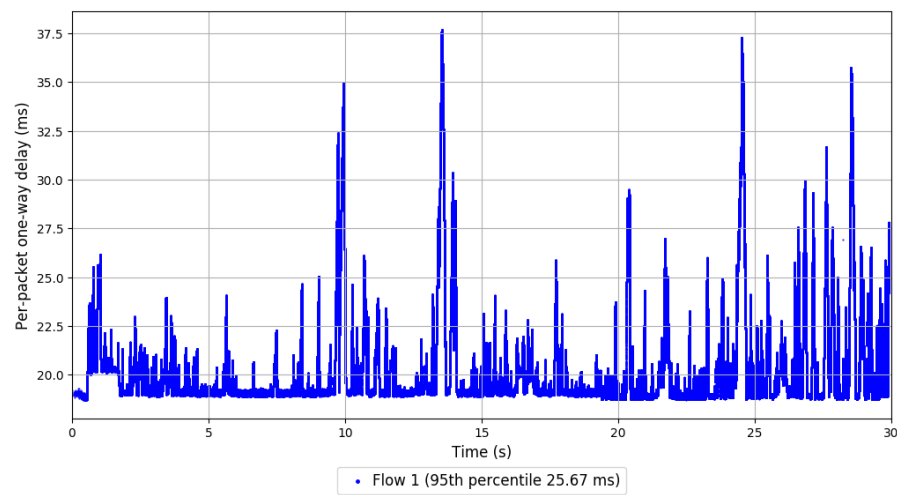
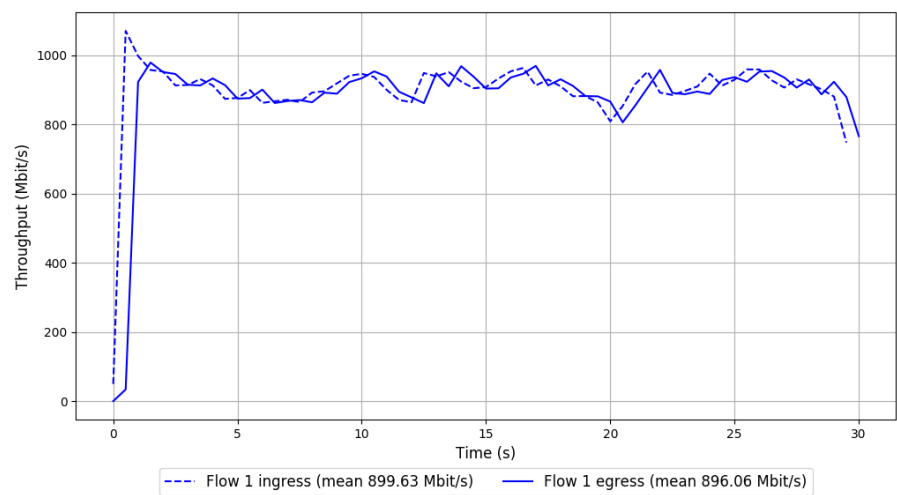
-- Flow 1:

Average throughput: 896.06 Mbit/s

95th percentile per-packet one-way delay: 25.667 ms

Loss rate: 0.40%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-21 21:36:32

End at: 2018-08-21 21:37:02

Local clock offset: 1.551 ms

Remote clock offset: -0.291 ms

Below is generated by plot.py at 2018-08-22 00:25:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 857.16 Mbit/s

95th percentile per-packet one-way delay: 32.368 ms

Loss rate: 0.12%

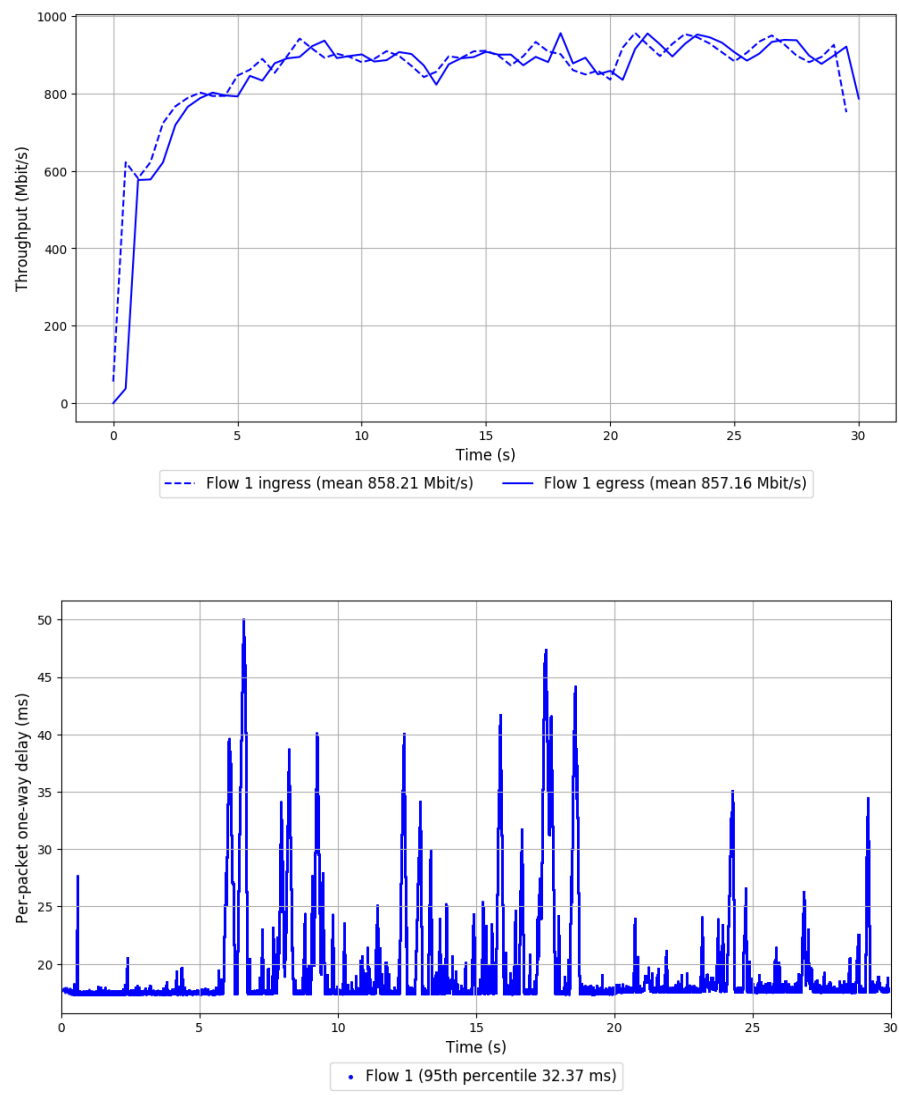
-- Flow 1:

Average throughput: 857.16 Mbit/s

95th percentile per-packet one-way delay: 32.368 ms

Loss rate: 0.12%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-21 22:01:53

End at: 2018-08-21 22:02:23

Local clock offset: 0.008 ms

Remote clock offset: 2.473 ms

Below is generated by plot.py at 2018-08-22 00:25:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 836.43 Mbit/s

95th percentile per-packet one-way delay: 32.358 ms

Loss rate: 0.57%

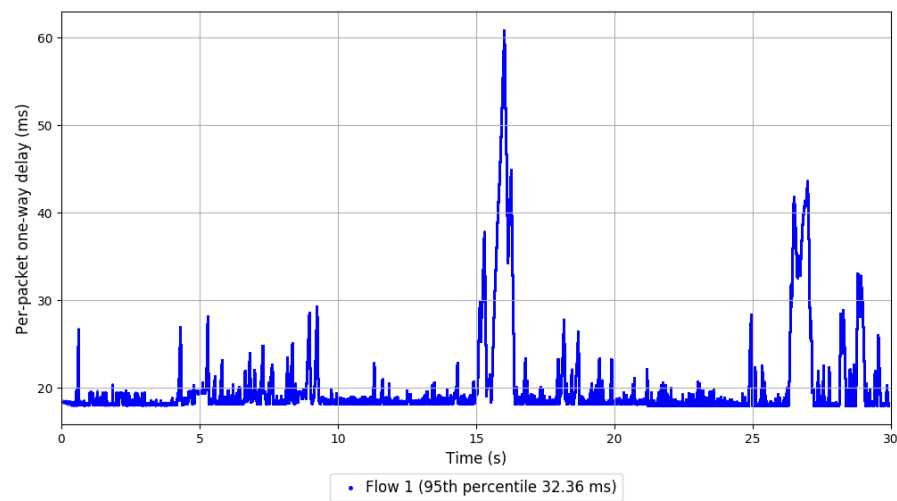
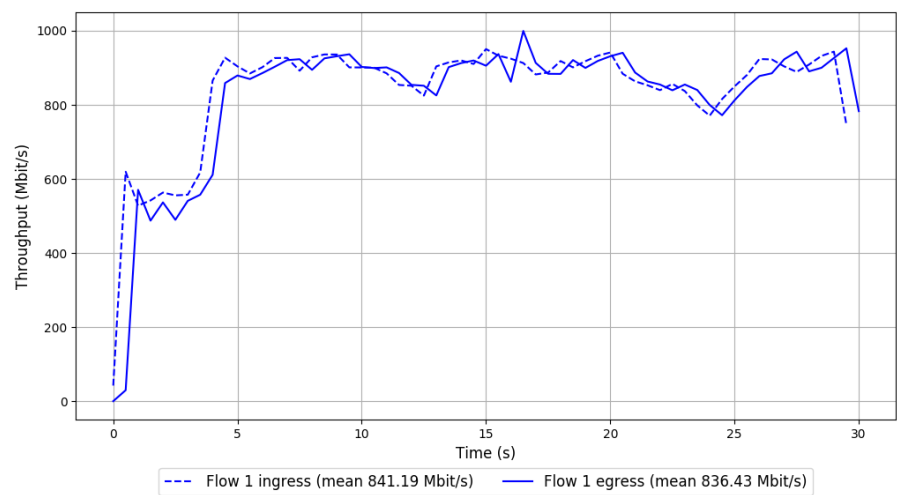
-- Flow 1:

Average throughput: 836.43 Mbit/s

95th percentile per-packet one-way delay: 32.358 ms

Loss rate: 0.57%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-21 22:27:10

End at: 2018-08-21 22:27:40

Local clock offset: -2.717 ms

Remote clock offset: 3.534 ms

Below is generated by plot.py at 2018-08-22 00:33:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.28 Mbit/s

95th percentile per-packet one-way delay: 27.953 ms

Loss rate: 1.52%

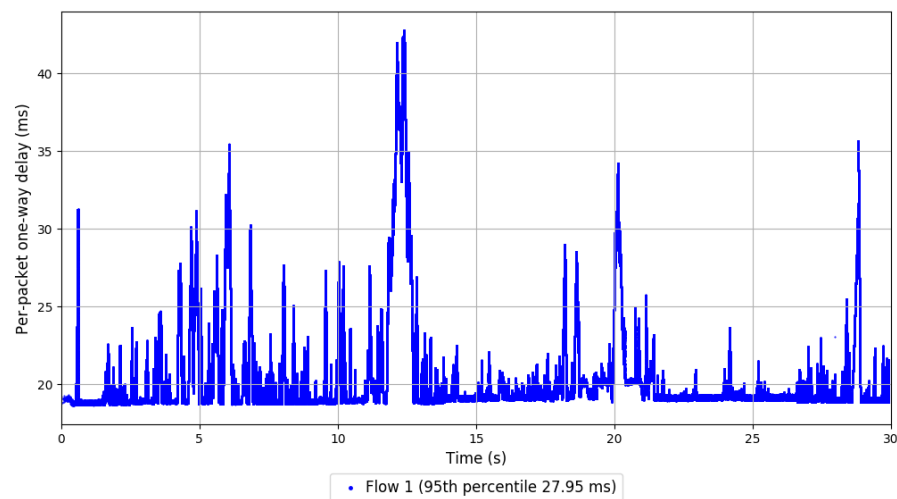
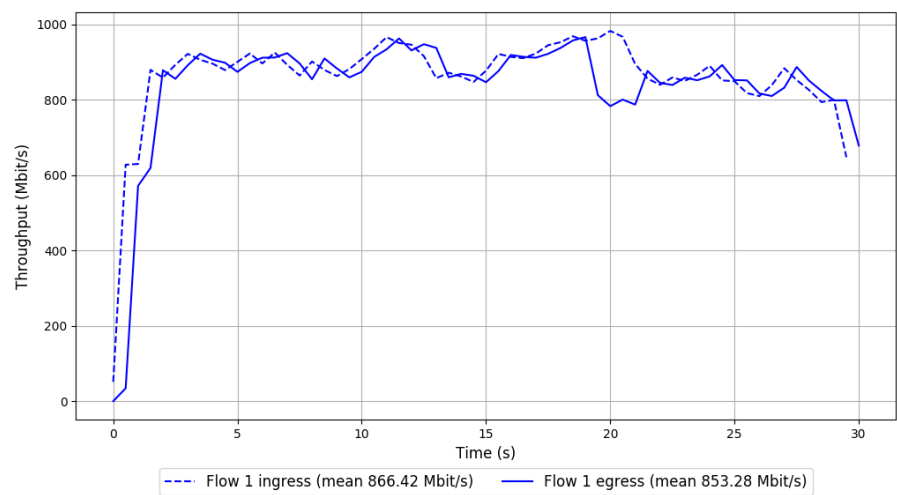
-- Flow 1:

Average throughput: 853.28 Mbit/s

95th percentile per-packet one-way delay: 27.953 ms

Loss rate: 1.52%

Run 9: Report of PCC-Allegro — Data Link

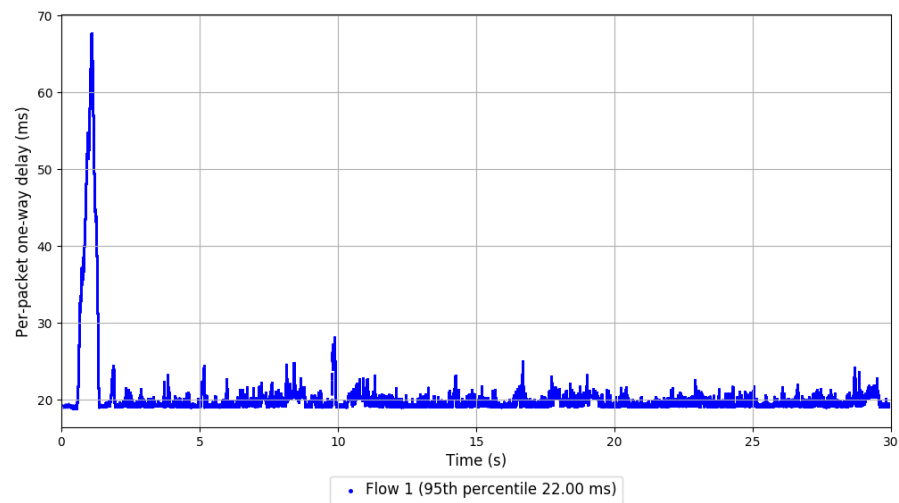
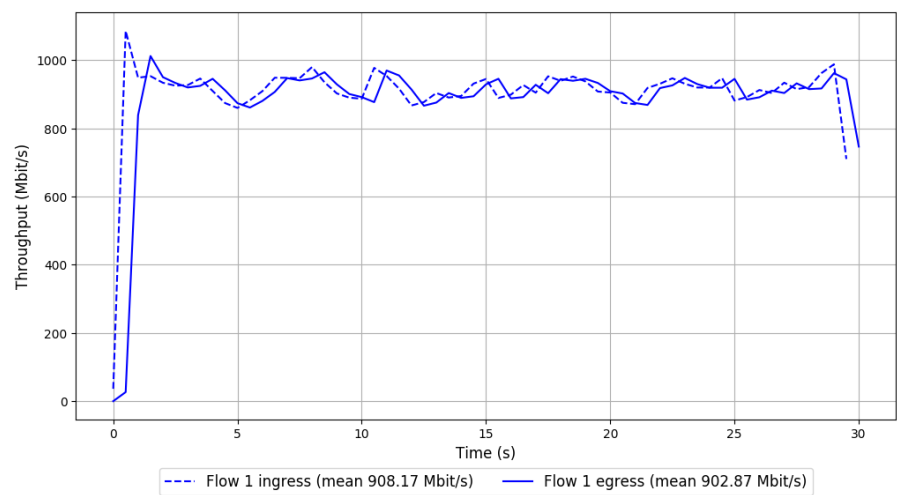


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-21 22:52:27
End at: 2018-08-21 22:52:58
Local clock offset: 0.03 ms
Remote clock offset: -0.226 ms

Below is generated by plot.py at 2018-08-22 00:34:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 902.87 Mbit/s
95th percentile per-packet one-way delay: 22.004 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 902.87 Mbit/s
95th percentile per-packet one-way delay: 22.004 ms
Loss rate: 0.58%

Run 10: Report of PCC-Allegro — Data Link

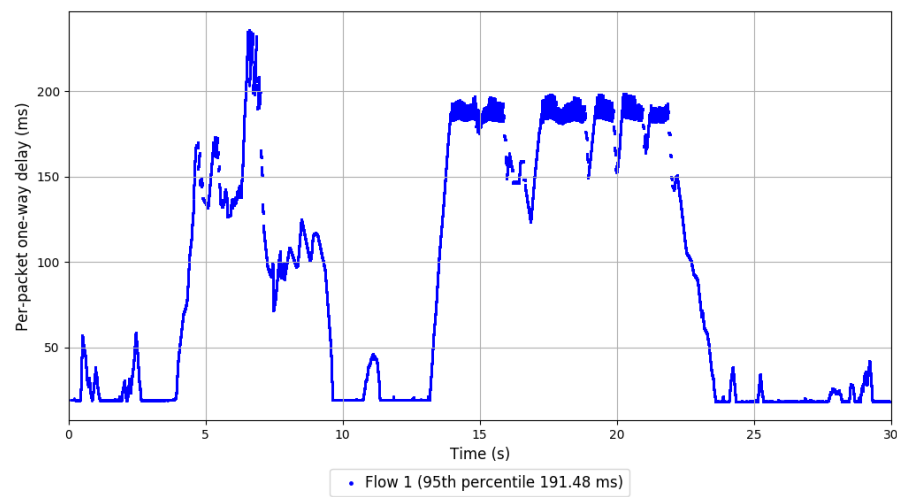
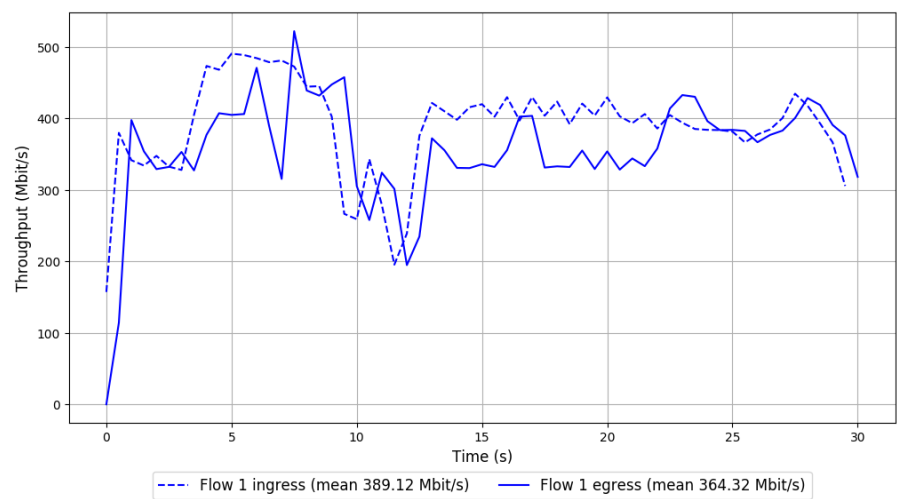


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-21 19:14:10
End at: 2018-08-21 19:14:40
Local clock offset: -0.318 ms
Remote clock offset: 0.676 ms

# Below is generated by plot.py at 2018-08-22 00:34:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 364.32 Mbit/s
95th percentile per-packet one-way delay: 191.483 ms
Loss rate: 6.38%
-- Flow 1:
Average throughput: 364.32 Mbit/s
95th percentile per-packet one-way delay: 191.483 ms
Loss rate: 6.38%
```


Run 1: Report of PCC-Expr — Data Link

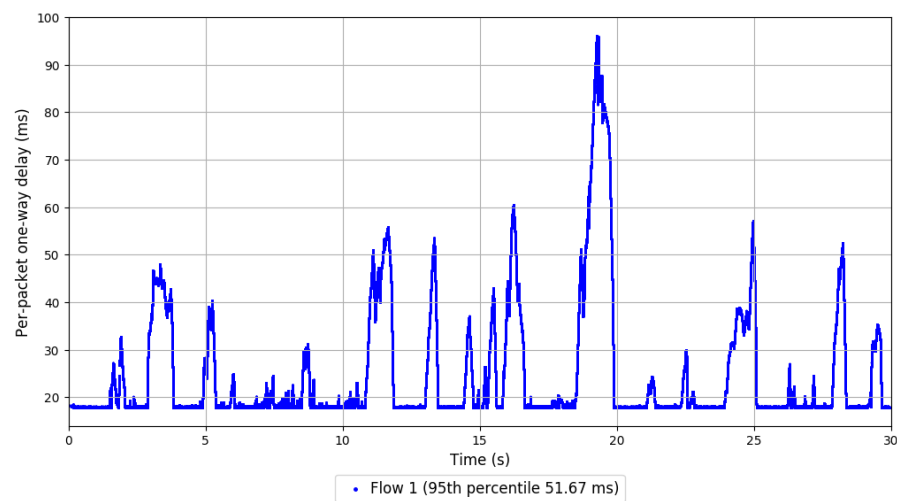
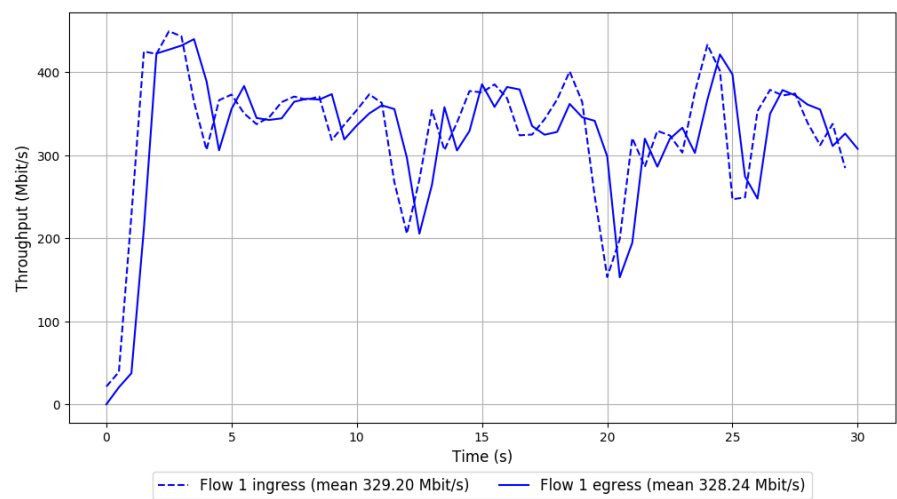


Run 2: Statistics of PCC-Expr

Start at: 2018-08-21 19:39:32
End at: 2018-08-21 19:40:02
Local clock offset: 2.118 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-08-22 00:34:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 328.24 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 328.24 Mbit/s
95th percentile per-packet one-way delay: 51.672 ms
Loss rate: 0.29%

Run 2: Report of PCC-Expr — Data Link

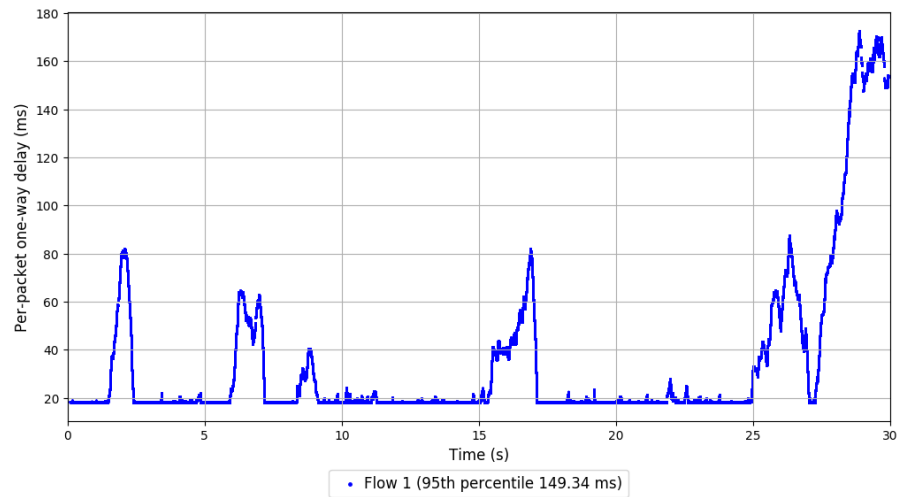
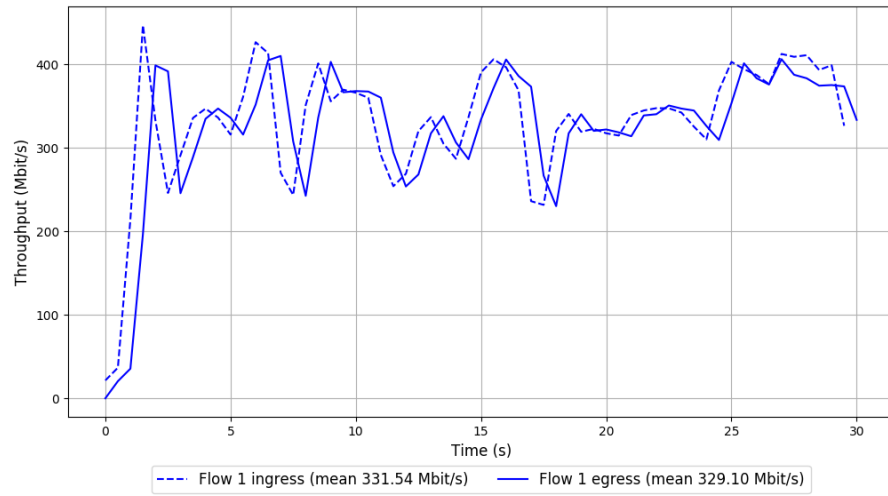


Run 3: Statistics of PCC-Expr

Start at: 2018-08-21 20:04:40
End at: 2018-08-21 20:05:10
Local clock offset: 2.745 ms
Remote clock offset: -0.168 ms

Below is generated by plot.py at 2018-08-22 00:34:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 329.10 Mbit/s
95th percentile per-packet one-way delay: 149.340 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 329.10 Mbit/s
95th percentile per-packet one-way delay: 149.340 ms
Loss rate: 0.73%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-21 20:29:54

End at: 2018-08-21 20:30:24

Local clock offset: 1.114 ms

Remote clock offset: 3.473 ms

Below is generated by plot.py at 2018-08-22 00:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 389.14 Mbit/s

95th percentile per-packet one-way delay: 162.651 ms

Loss rate: 7.49%

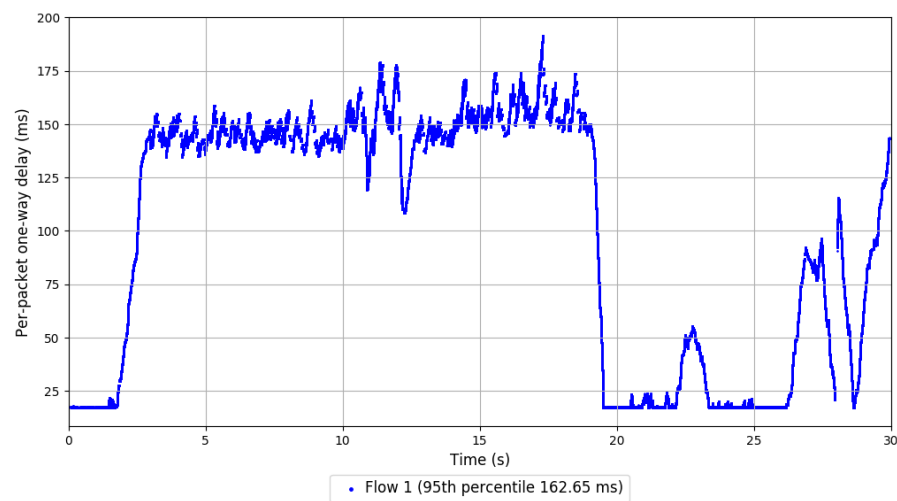
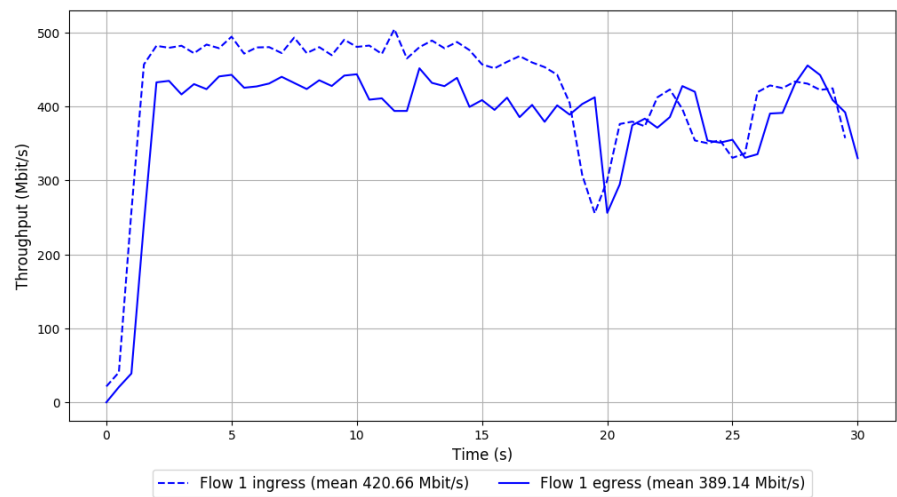
-- Flow 1:

Average throughput: 389.14 Mbit/s

95th percentile per-packet one-way delay: 162.651 ms

Loss rate: 7.49%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-21 20:54:44

End at: 2018-08-21 20:55:14

Local clock offset: 0.731 ms

Remote clock offset: 3.336 ms

Below is generated by plot.py at 2018-08-22 00:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 348.52 Mbit/s

95th percentile per-packet one-way delay: 153.332 ms

Loss rate: 0.49%

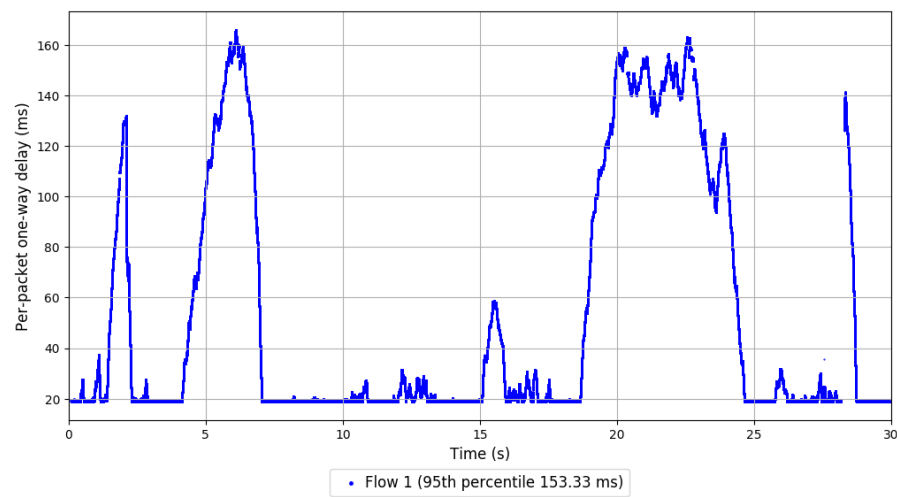
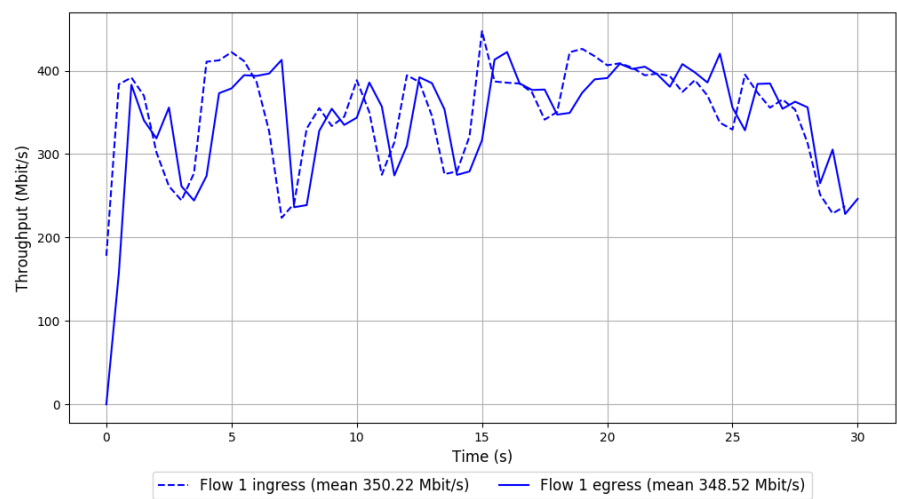
-- Flow 1:

Average throughput: 348.52 Mbit/s

95th percentile per-packet one-way delay: 153.332 ms

Loss rate: 0.49%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-21 21:19:56

End at: 2018-08-21 21:20:26

Local clock offset: 1.27 ms

Remote clock offset: 2.287 ms

Below is generated by plot.py at 2018-08-22 00:34:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.04 Mbit/s

95th percentile per-packet one-way delay: 132.266 ms

Loss rate: 0.93%

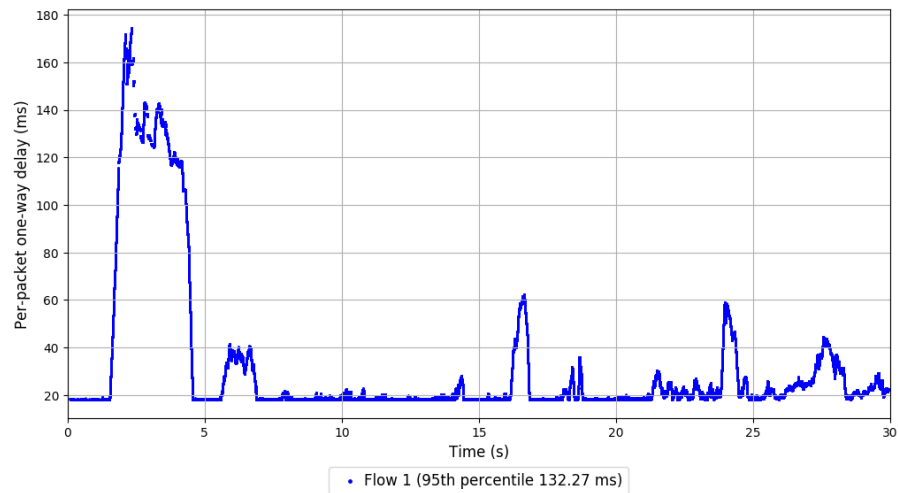
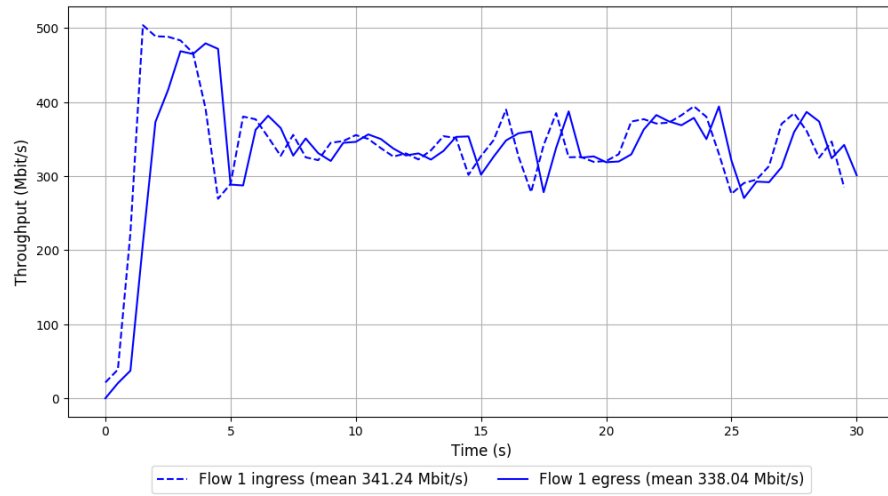
-- Flow 1:

Average throughput: 338.04 Mbit/s

95th percentile per-packet one-way delay: 132.266 ms

Loss rate: 0.93%

Run 6: Report of PCC-Expr — Data Link

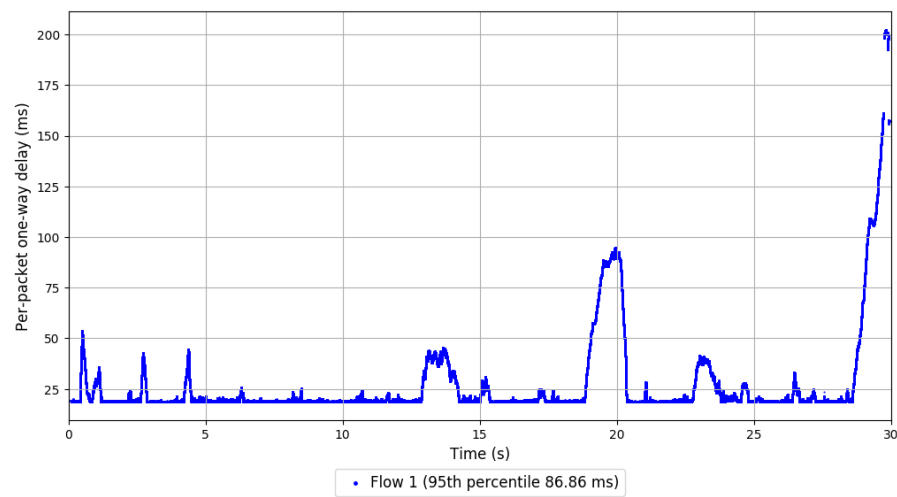
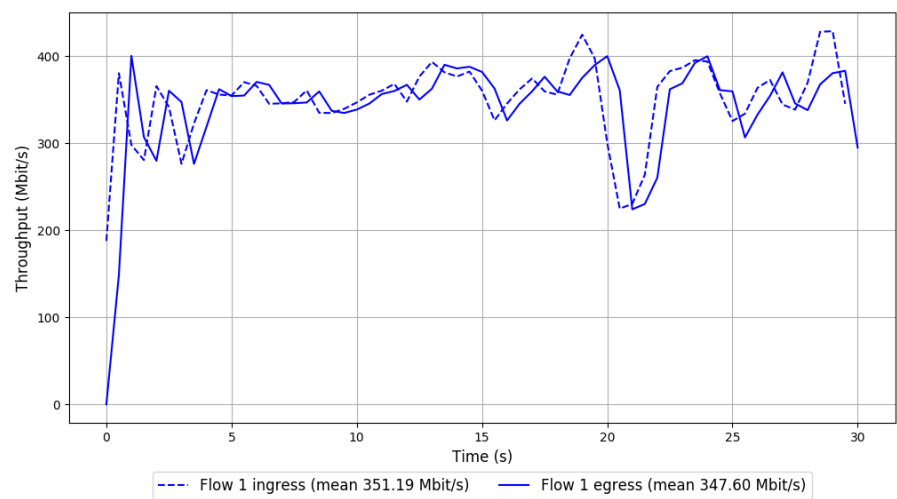


Run 7: Statistics of PCC-Expr

Start at: 2018-08-21 21:45:04
End at: 2018-08-21 21:45:34
Local clock offset: 0.62 ms
Remote clock offset: -0.755 ms

Below is generated by plot.py at 2018-08-22 00:39:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 347.60 Mbit/s
95th percentile per-packet one-way delay: 86.863 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 347.60 Mbit/s
95th percentile per-packet one-way delay: 86.863 ms
Loss rate: 1.02%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-21 22:10:15

End at: 2018-08-21 22:10:45

Local clock offset: -0.693 ms

Remote clock offset: 3.552 ms

Below is generated by plot.py at 2018-08-22 00:39:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.01 Mbit/s

95th percentile per-packet one-way delay: 81.510 ms

Loss rate: 0.26%

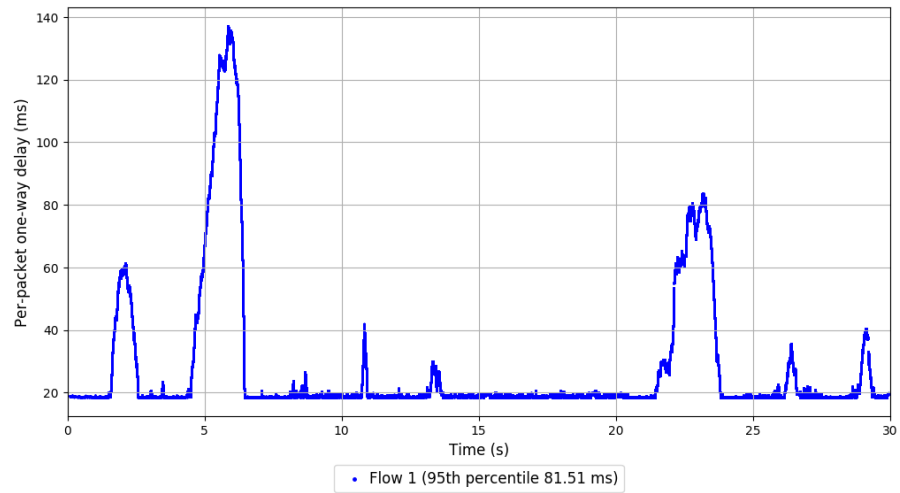
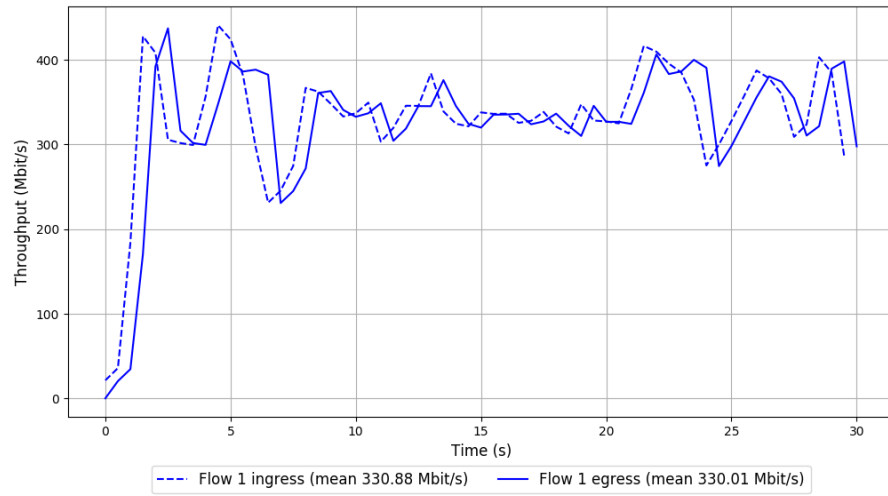
-- Flow 1:

Average throughput: 330.01 Mbit/s

95th percentile per-packet one-way delay: 81.510 ms

Loss rate: 0.26%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-21 22:35:38

End at: 2018-08-21 22:36:08

Local clock offset: -3.287 ms

Remote clock offset: 1.162 ms

Below is generated by plot.py at 2018-08-22 00:40:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 356.60 Mbit/s

95th percentile per-packet one-way delay: 158.122 ms

Loss rate: 3.33%

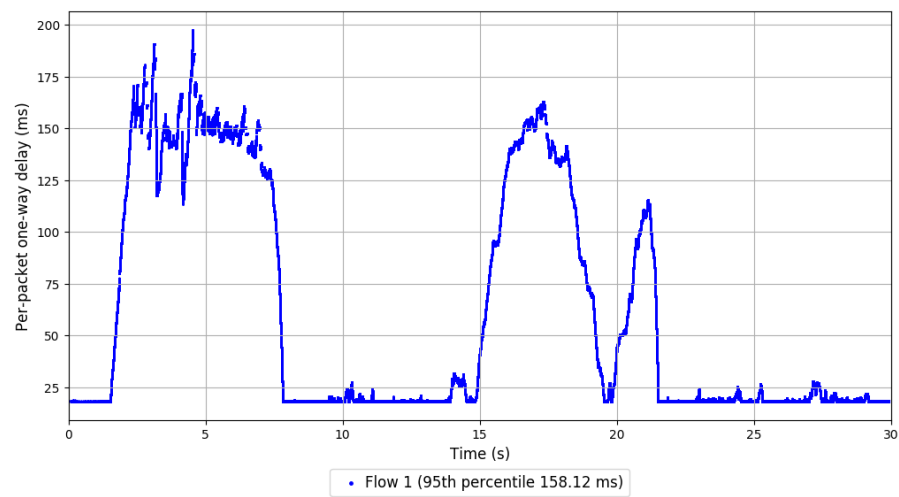
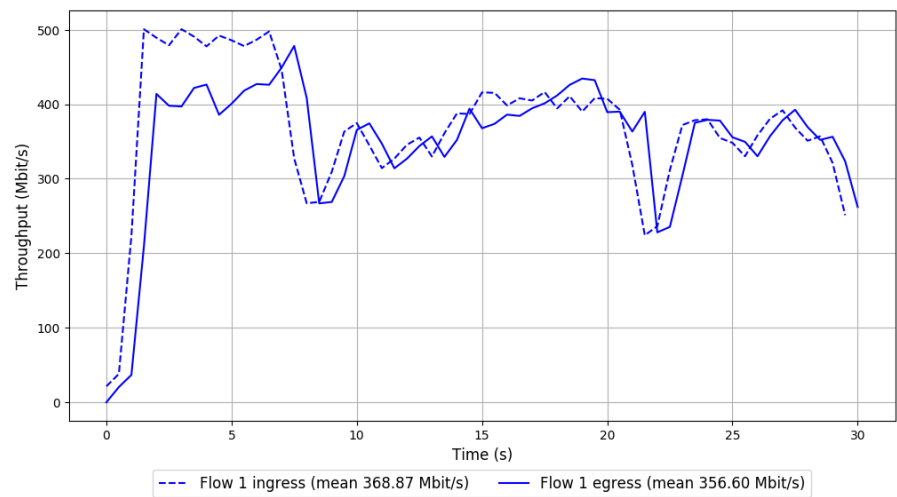
-- Flow 1:

Average throughput: 356.60 Mbit/s

95th percentile per-packet one-way delay: 158.122 ms

Loss rate: 3.33%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-08-21 23:00:47

End at: 2018-08-21 23:01:17

Local clock offset: 0.553 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.70 Mbit/s

95th percentile per-packet one-way delay: 91.513 ms

Loss rate: 0.12%

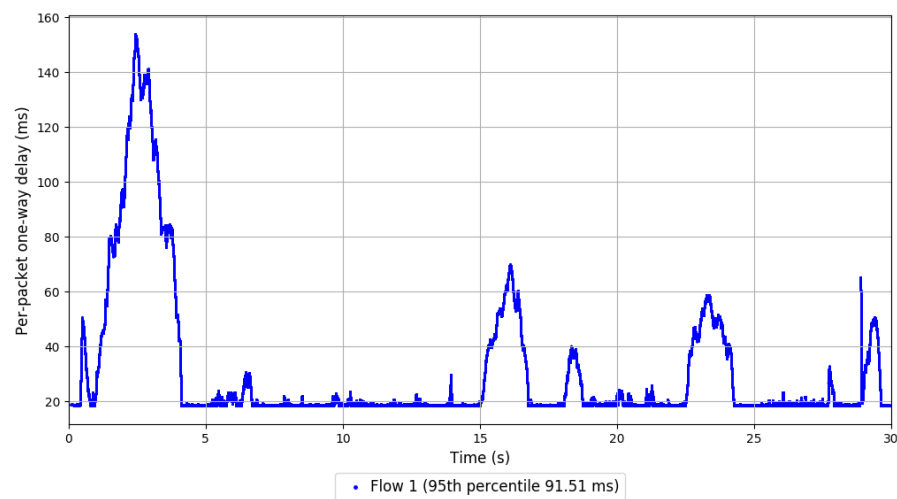
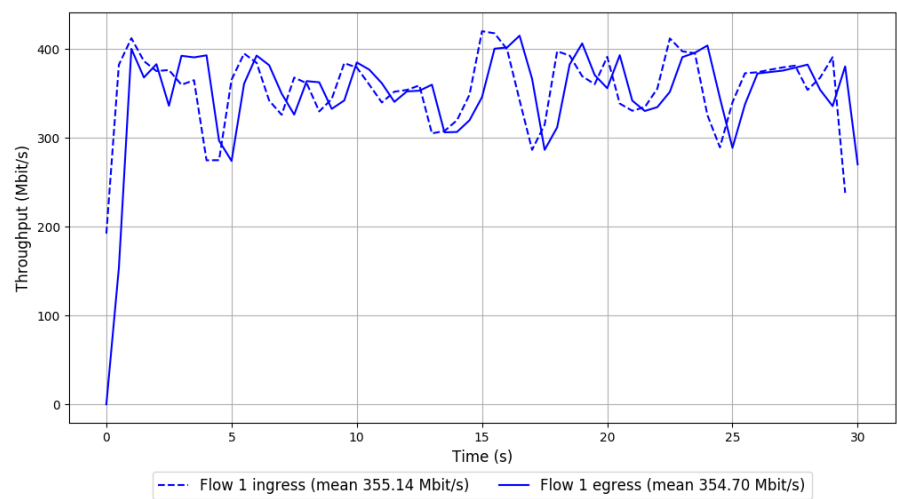
-- Flow 1:

Average throughput: 354.70 Mbit/s

95th percentile per-packet one-way delay: 91.513 ms

Loss rate: 0.12%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-21 19:12:50

End at: 2018-08-21 19:13:20

Local clock offset: -0.593 ms

Remote clock offset: 0.838 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 18.341 ms

Loss rate: 0.03%

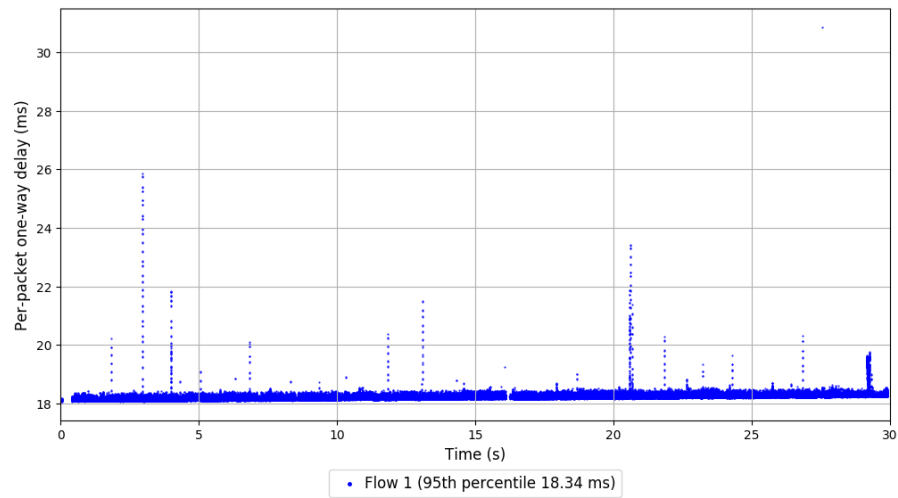
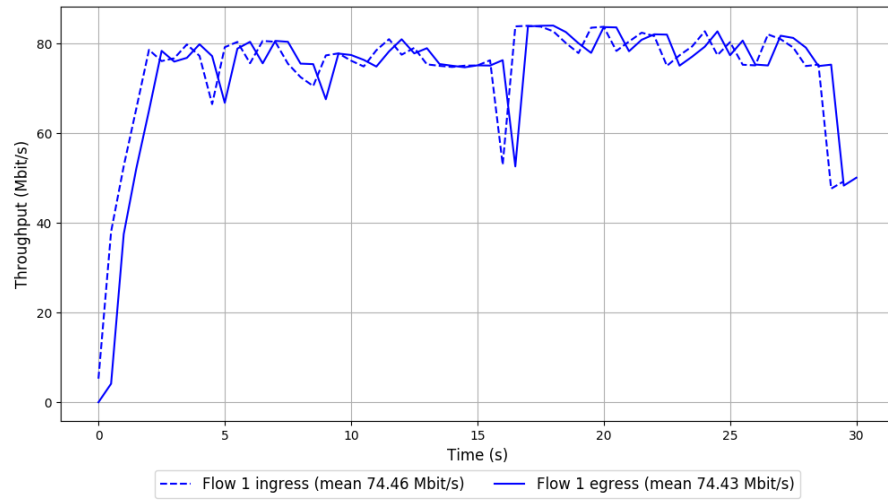
-- Flow 1:

Average throughput: 74.43 Mbit/s

95th percentile per-packet one-way delay: 18.341 ms

Loss rate: 0.03%

Run 1: Report of QUIC Cubic — Data Link

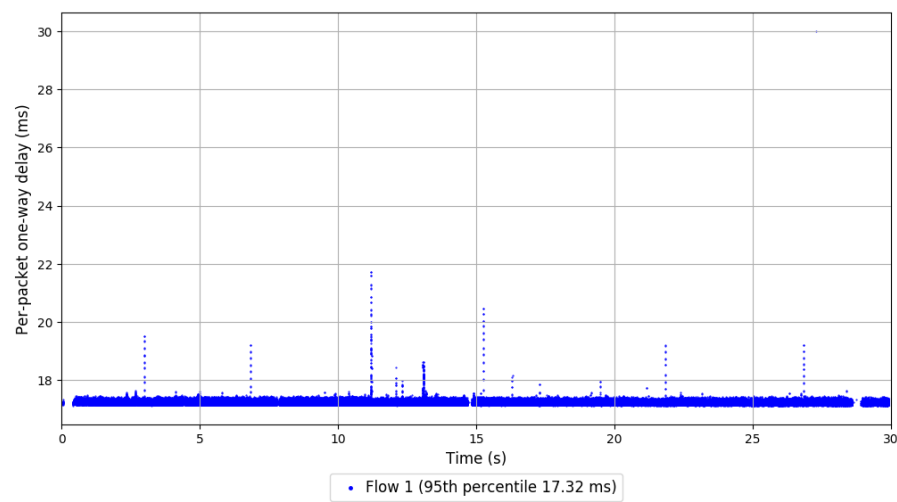
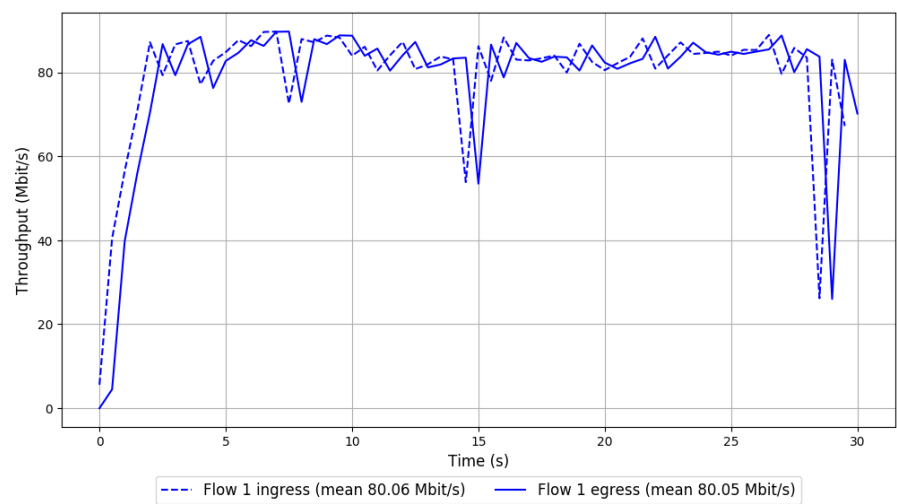


Run 2: Statistics of QUIC Cubic

Start at: 2018-08-21 19:38:11
End at: 2018-08-21 19:38:41
Local clock offset: 2.176 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-08-22 00:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 17.324 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 80.05 Mbit/s
95th percentile per-packet one-way delay: 17.324 ms
Loss rate: 0.01%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-21 20:03:20

End at: 2018-08-21 20:03:50

Local clock offset: 2.741 ms

Remote clock offset: -0.116 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 19.120 ms

Loss rate: 0.11%

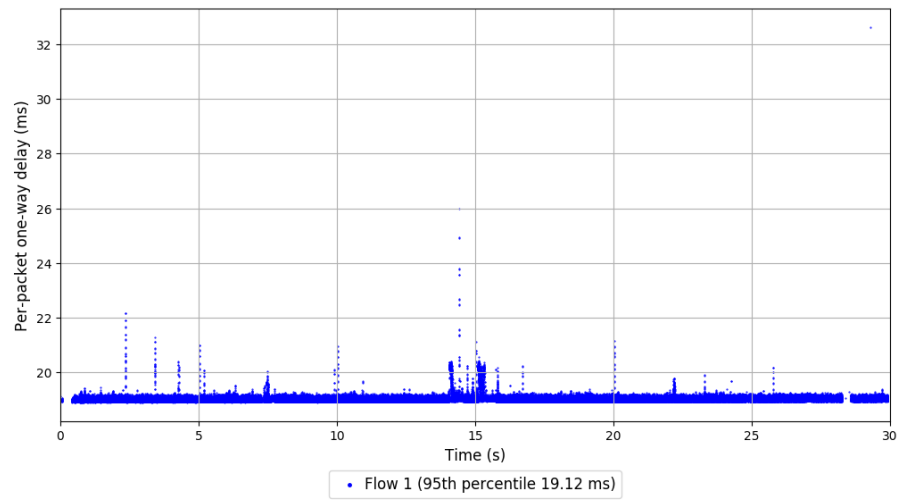
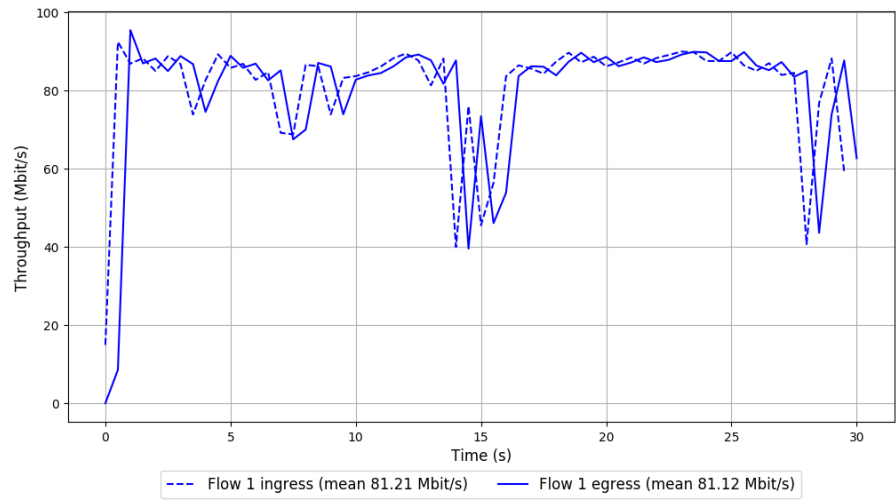
-- Flow 1:

Average throughput: 81.12 Mbit/s

95th percentile per-packet one-way delay: 19.120 ms

Loss rate: 0.11%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-21 20:28:34

End at: 2018-08-21 20:29:04

Local clock offset: 1.107 ms

Remote clock offset: 3.331 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 17.289 ms

Loss rate: 0.00%

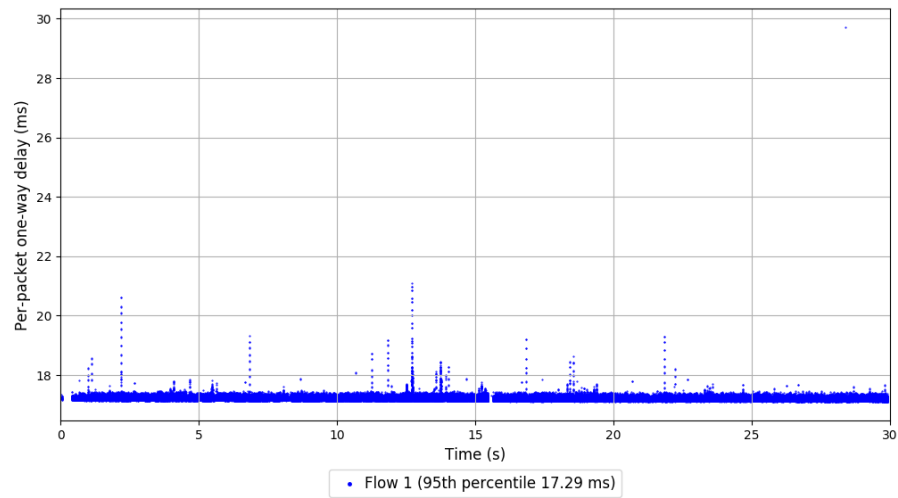
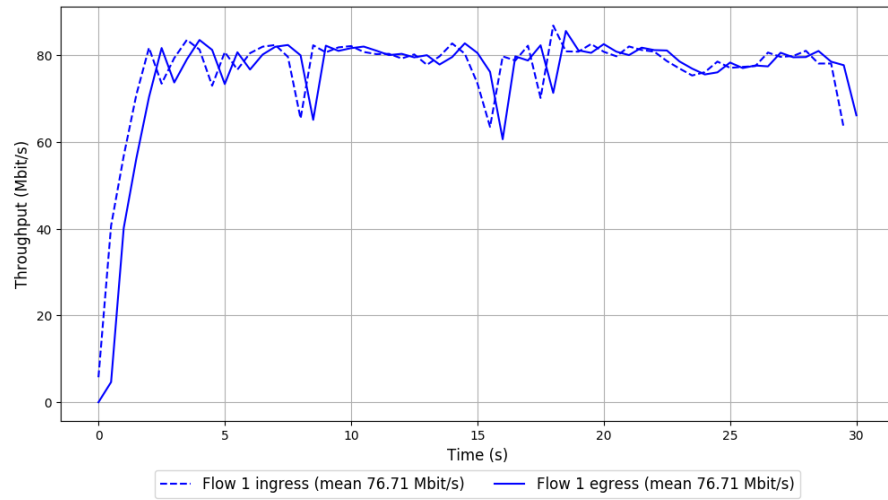
-- Flow 1:

Average throughput: 76.71 Mbit/s

95th percentile per-packet one-way delay: 17.289 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-21 20:53:24

End at: 2018-08-21 20:53:54

Local clock offset: 0.634 ms

Remote clock offset: 3.372 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 18.868 ms

Loss rate: 0.11%

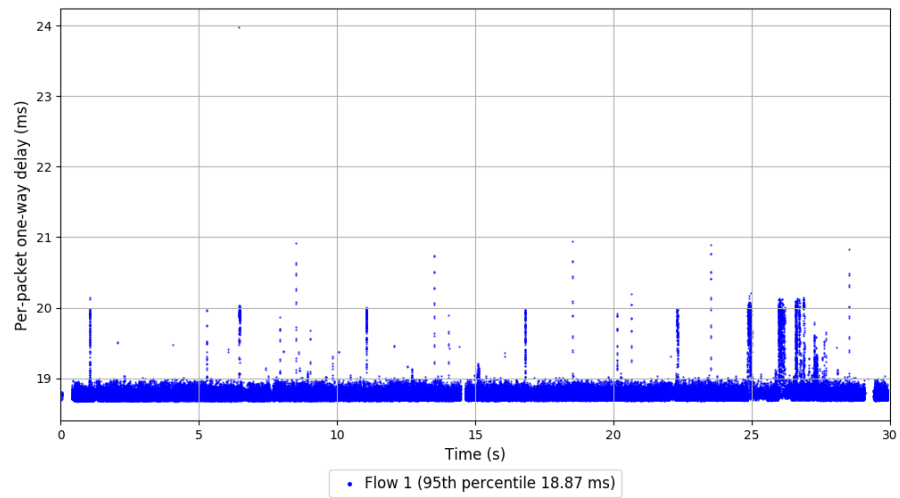
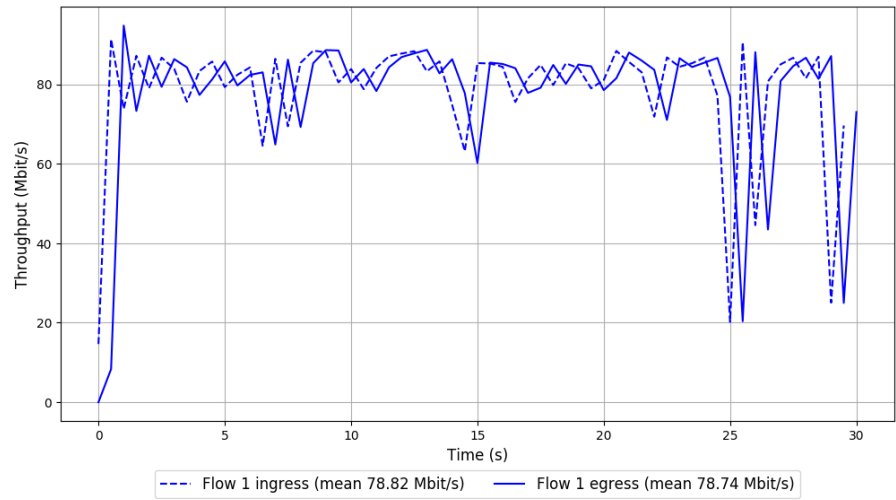
-- Flow 1:

Average throughput: 78.74 Mbit/s

95th percentile per-packet one-way delay: 18.868 ms

Loss rate: 0.11%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-21 21:18:36

End at: 2018-08-21 21:19:06

Local clock offset: 1.156 ms

Remote clock offset: 2.775 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.33 Mbit/s

95th percentile per-packet one-way delay: 19.139 ms

Loss rate: 0.01%

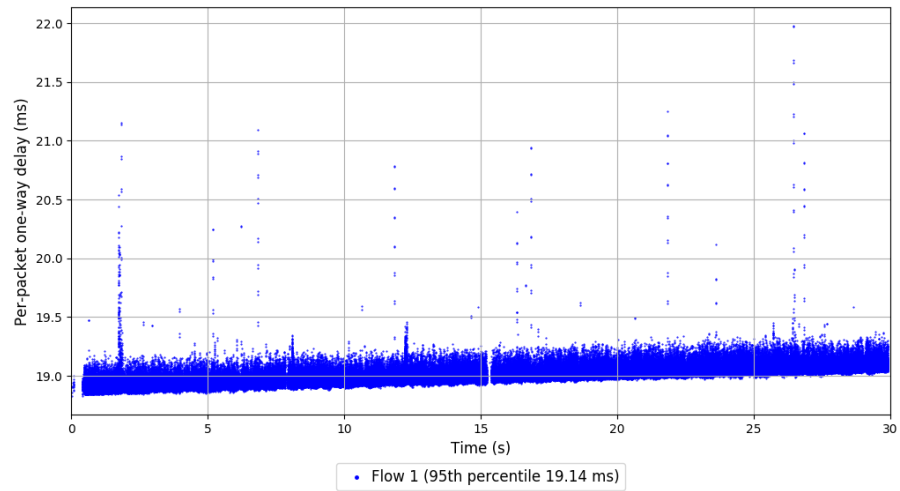
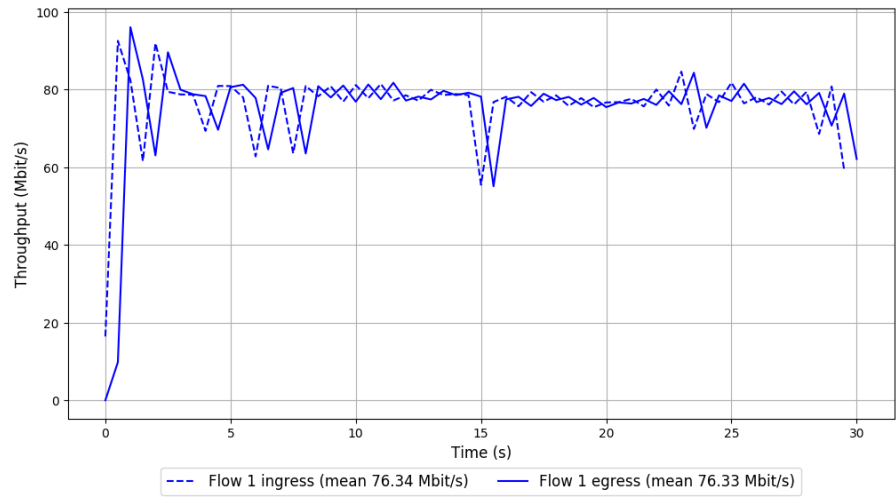
-- Flow 1:

Average throughput: 76.33 Mbit/s

95th percentile per-packet one-way delay: 19.139 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-21 21:43:44

End at: 2018-08-21 21:44:14

Local clock offset: 0.728 ms

Remote clock offset: -0.703 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.65 Mbit/s

95th percentile per-packet one-way delay: 18.198 ms

Loss rate: 0.00%

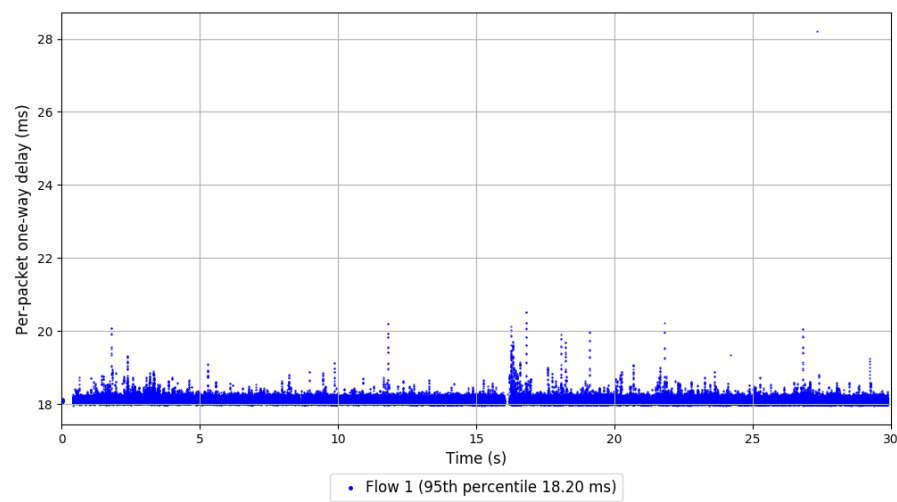
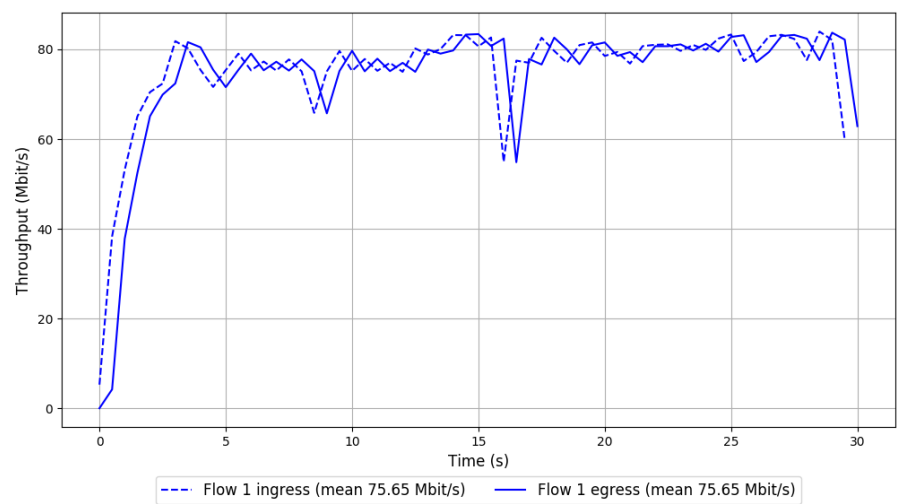
-- Flow 1:

Average throughput: 75.65 Mbit/s

95th percentile per-packet one-way delay: 18.198 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-21 22:08:55

End at: 2018-08-21 22:09:25

Local clock offset: -0.445 ms

Remote clock offset: 3.424 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.08 Mbit/s

95th percentile per-packet one-way delay: 18.208 ms

Loss rate: 0.10%

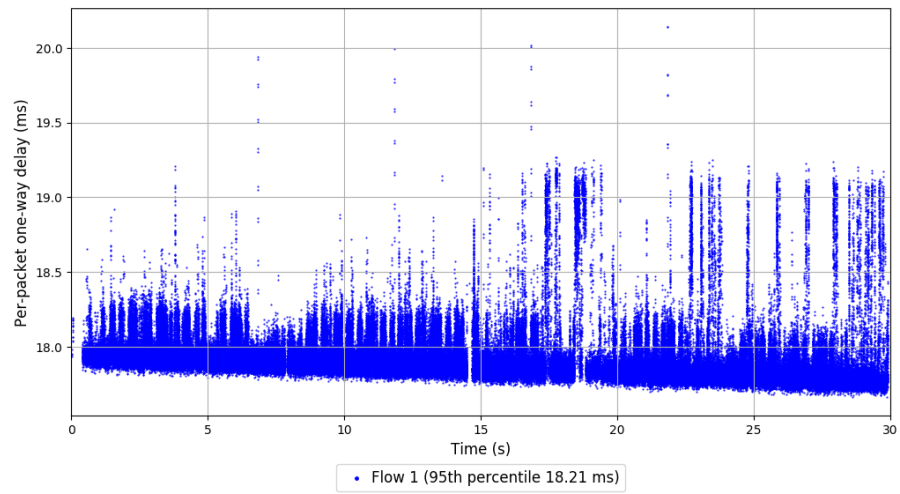
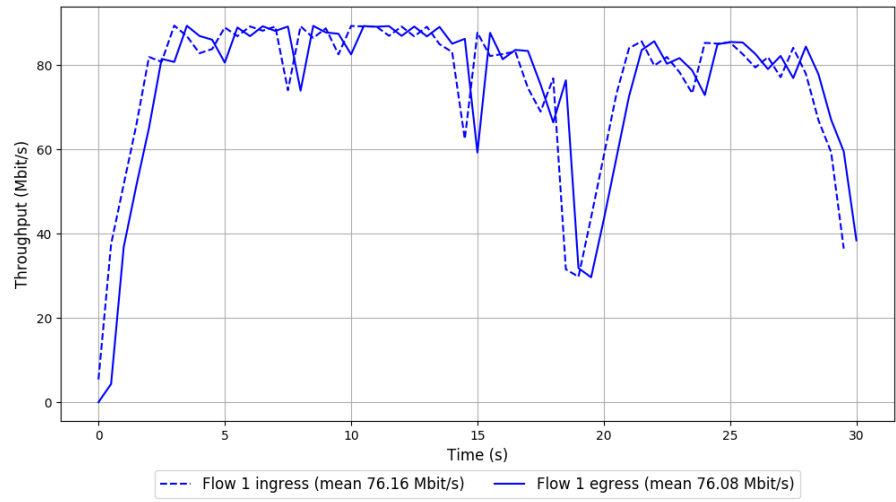
-- Flow 1:

Average throughput: 76.08 Mbit/s

95th percentile per-packet one-way delay: 18.208 ms

Loss rate: 0.10%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-21 22:34:18

End at: 2018-08-21 22:34:48

Local clock offset: -3.131 ms

Remote clock offset: 1.345 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 18.777 ms

Loss rate: 0.13%

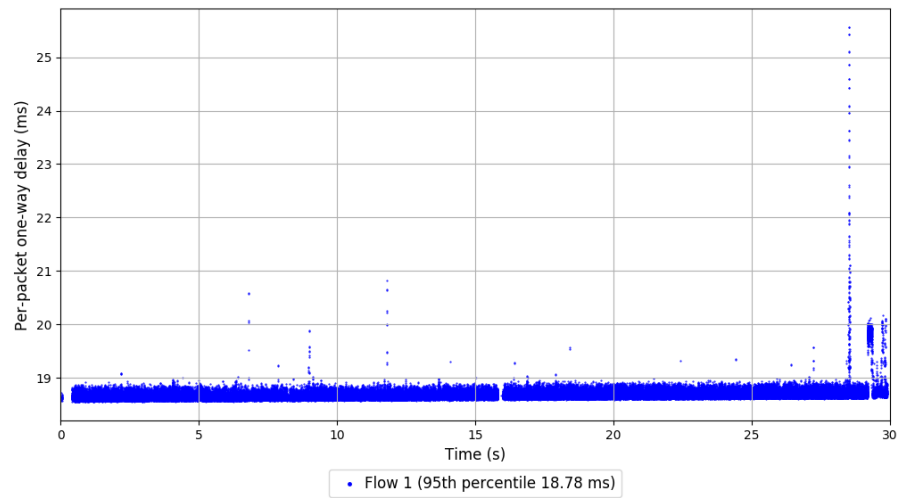
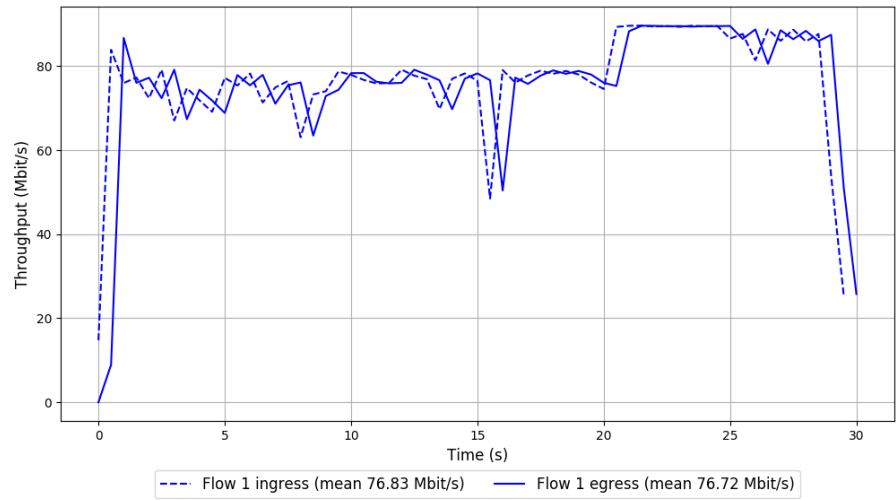
-- Flow 1:

Average throughput: 76.72 Mbit/s

95th percentile per-packet one-way delay: 18.777 ms

Loss rate: 0.13%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-21 22:59:27

End at: 2018-08-21 22:59:57

Local clock offset: 0.496 ms

Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 18.028 ms

Loss rate: 0.05%

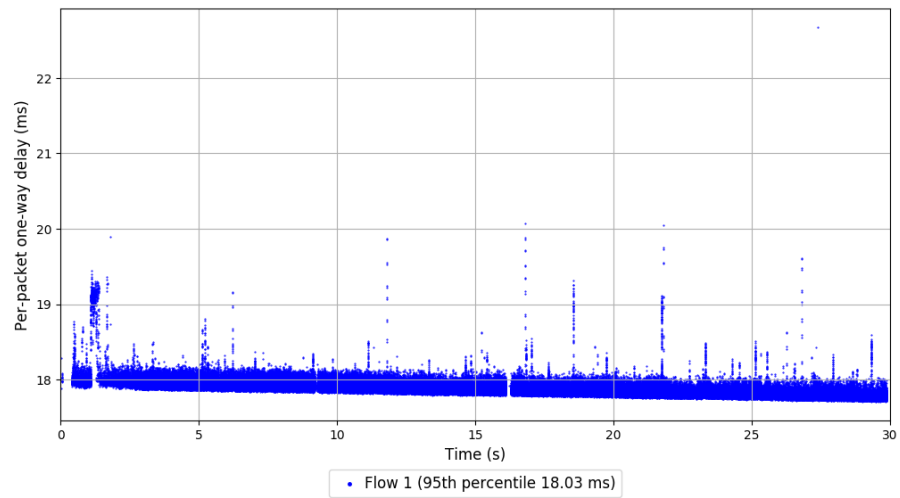
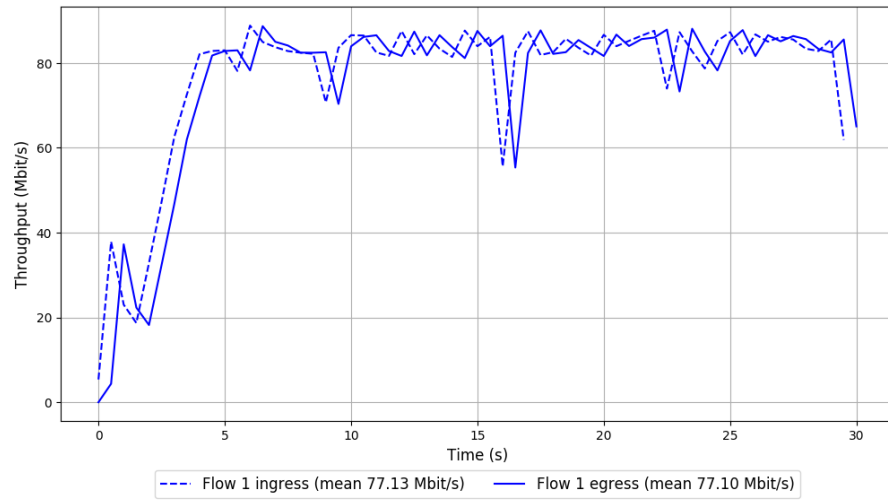
-- Flow 1:

Average throughput: 77.10 Mbit/s

95th percentile per-packet one-way delay: 18.028 ms

Loss rate: 0.05%

Run 10: Report of QUIC Cubic — Data Link

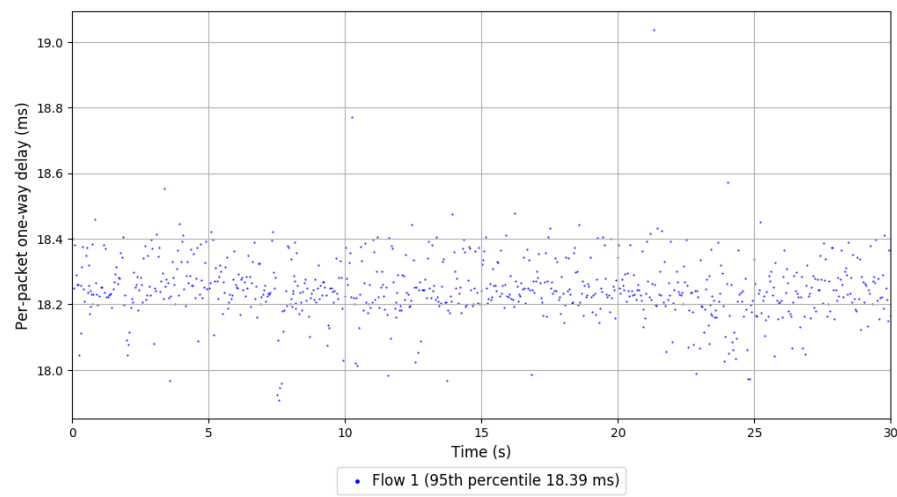
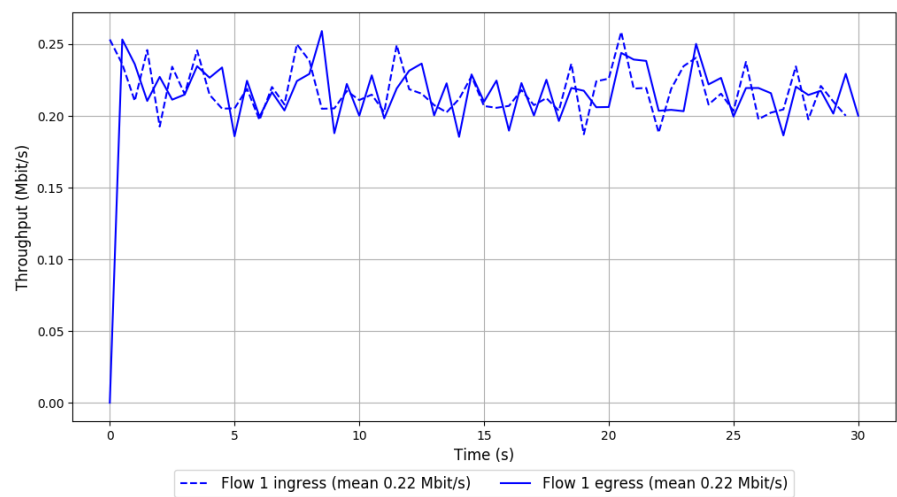


```
Run 1: Statistics of SCReAM

Start at: 2018-08-21 18:57:01
End at: 2018-08-21 18:57:31
Local clock offset: -1.767 ms
Remote clock offset: 4.162 ms

# Below is generated by plot.py at 2018-08-22 00:41:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.393 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.393 ms
Loss rate: 0.00%
```


Run 1: Report of SReAM — Data Link

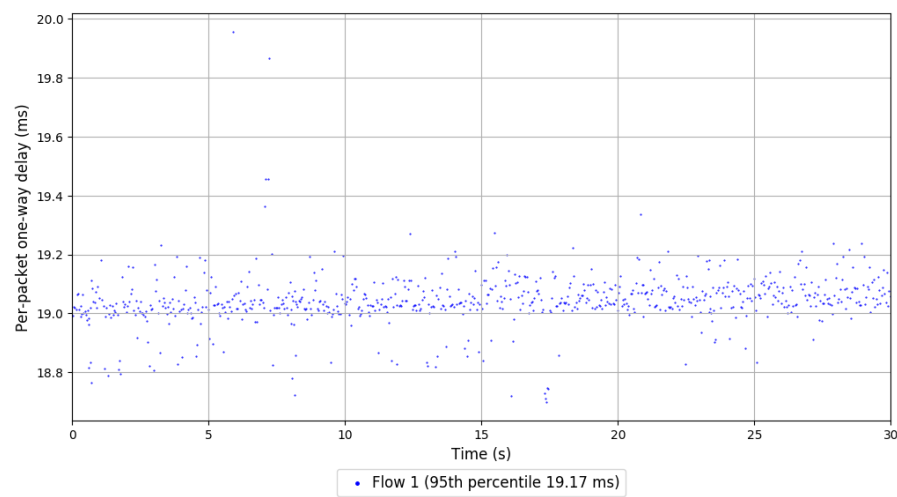
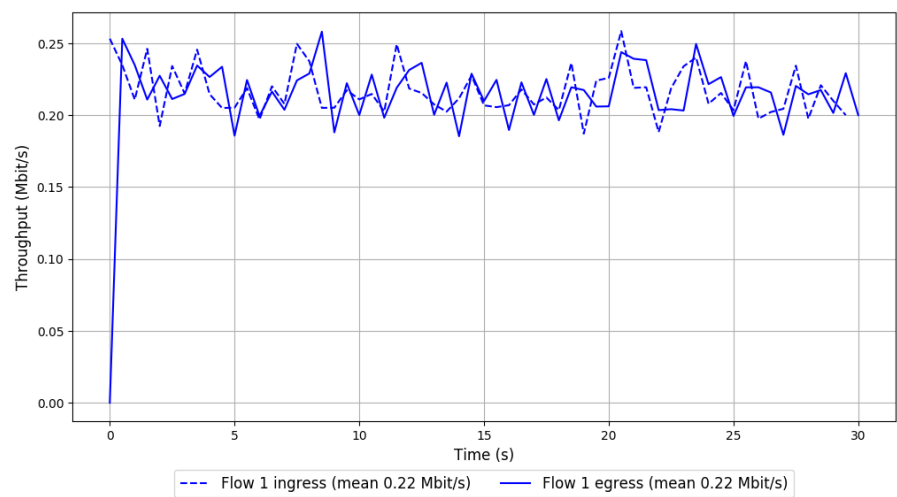


```
Run 2: Statistics of SCReAM

Start at: 2018-08-21 19:22:21
End at: 2018-08-21 19:22:51
Local clock offset: 0.887 ms
Remote clock offset: 0.12 ms

# Below is generated by plot.py at 2018-08-22 00:41:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.174 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.174 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

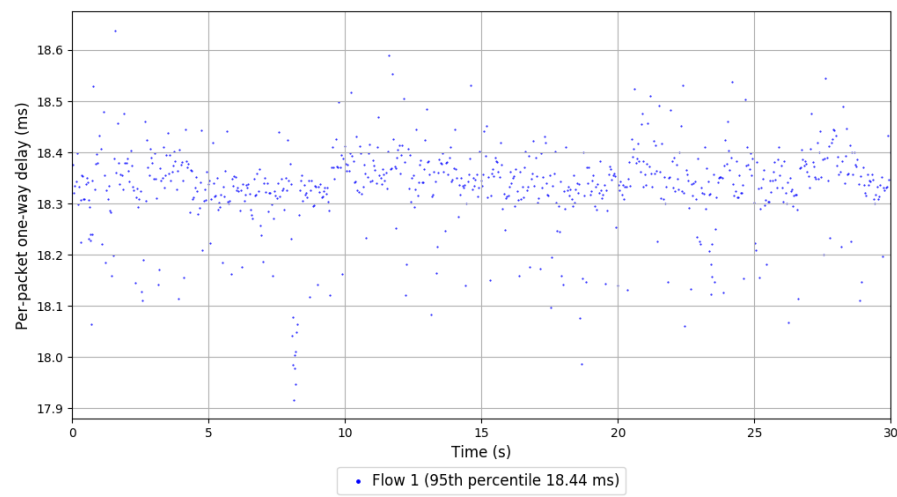
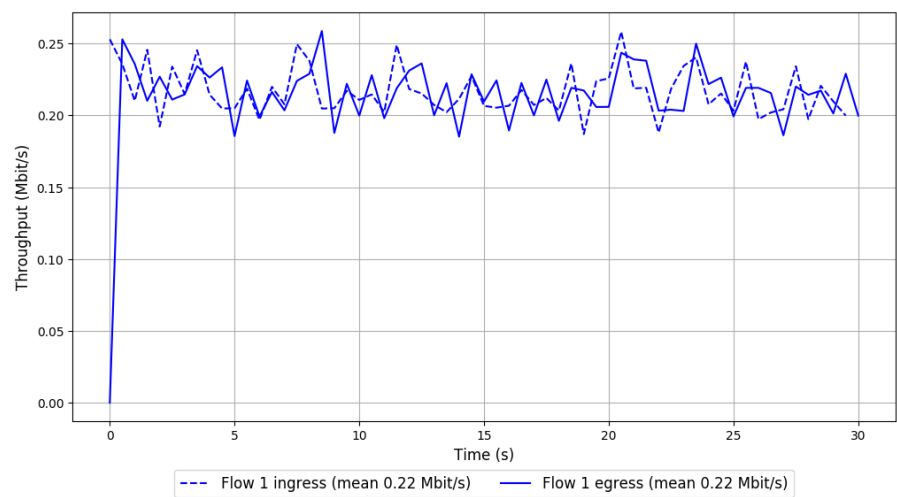


Run 3: Statistics of SCReAM

Start at: 2018-08-21 19:47:31
End at: 2018-08-21 19:48:01
Local clock offset: 2.014 ms
Remote clock offset: -0.166 ms

Below is generated by plot.py at 2018-08-22 00:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.441 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.441 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

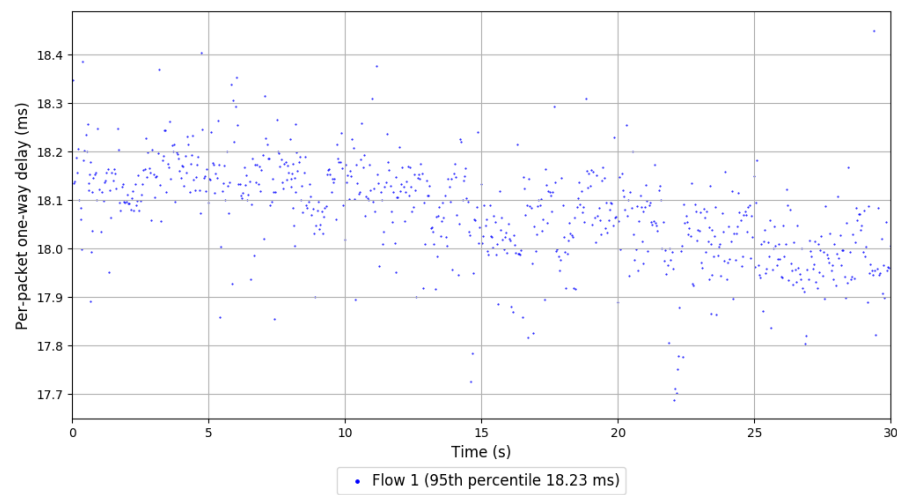
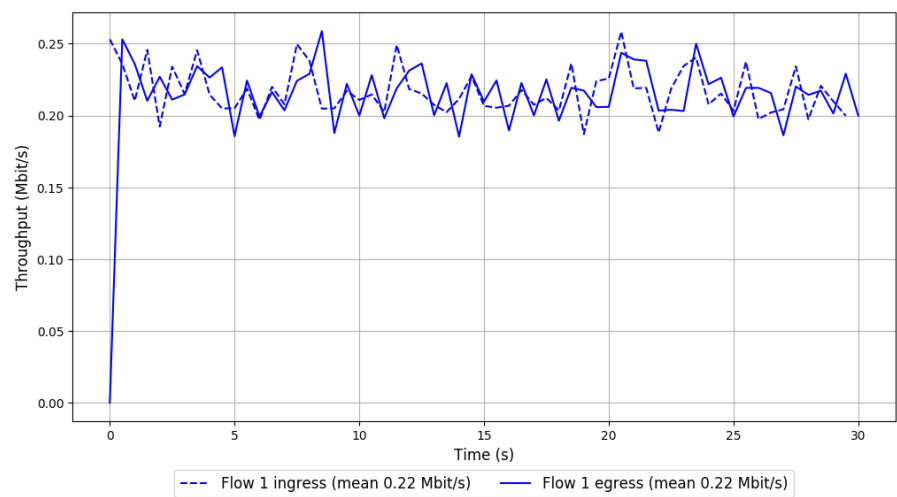


```
Run 4: Statistics of SCReAM

Start at: 2018-08-21 20:12:47
End at: 2018-08-21 20:13:17
Local clock offset: 1.99 ms
Remote clock offset: 1.23 ms

# Below is generated by plot.py at 2018-08-22 00:41:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.225 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.225 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-21 20:37:45

End at: 2018-08-21 20:38:15

Local clock offset: 0.973 ms

Remote clock offset: 3.862 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.117 ms

Loss rate: 0.00%

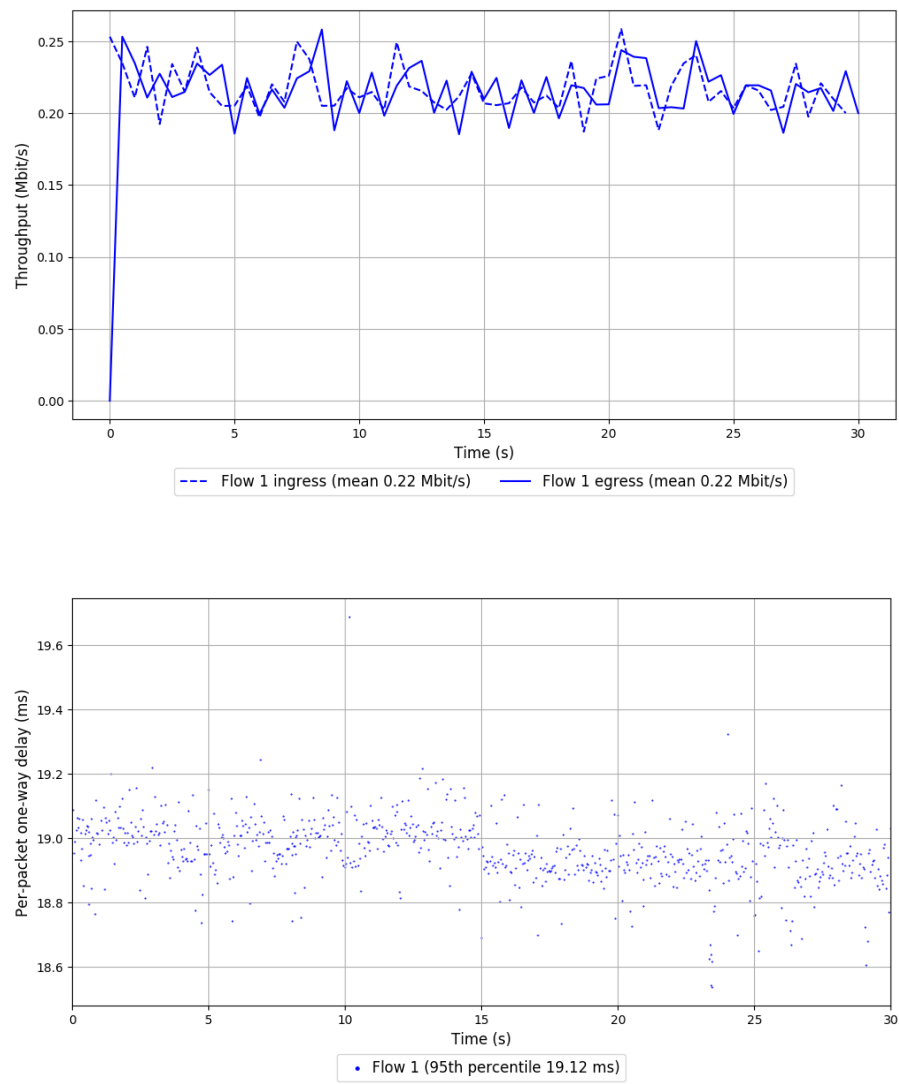
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.117 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-21 21:02:45

End at: 2018-08-21 21:03:15

Local clock offset: 0.755 ms

Remote clock offset: 3.313 ms

Below is generated by plot.py at 2018-08-22 00:41:25

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%

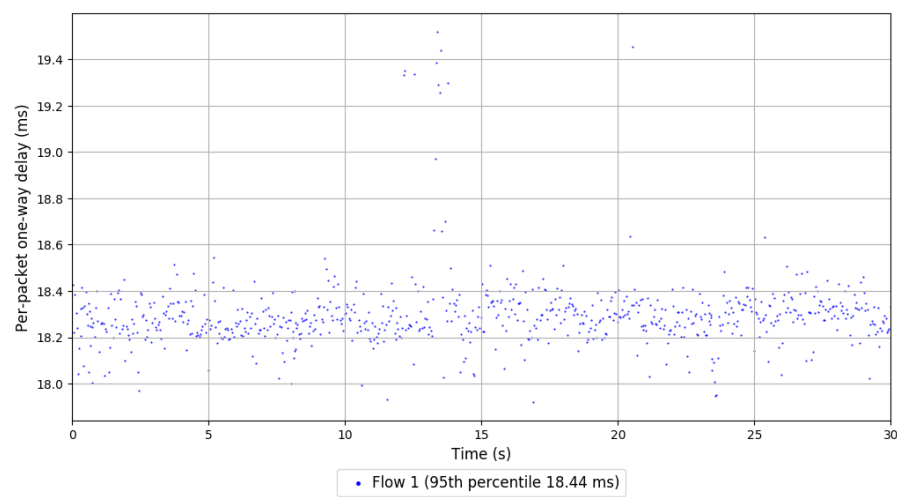
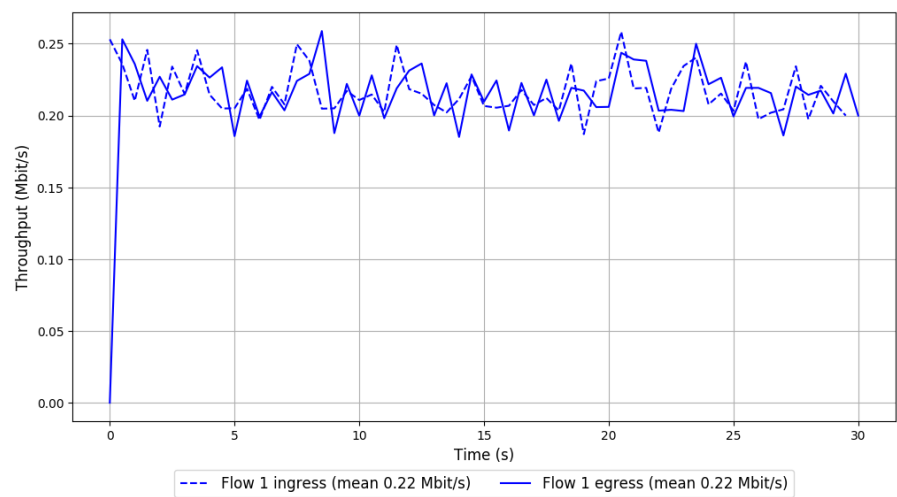
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-21 21:27:45

End at: 2018-08-21 21:28:15

Local clock offset: 1.48 ms

Remote clock offset: 0.693 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.349 ms

Loss rate: 0.00%

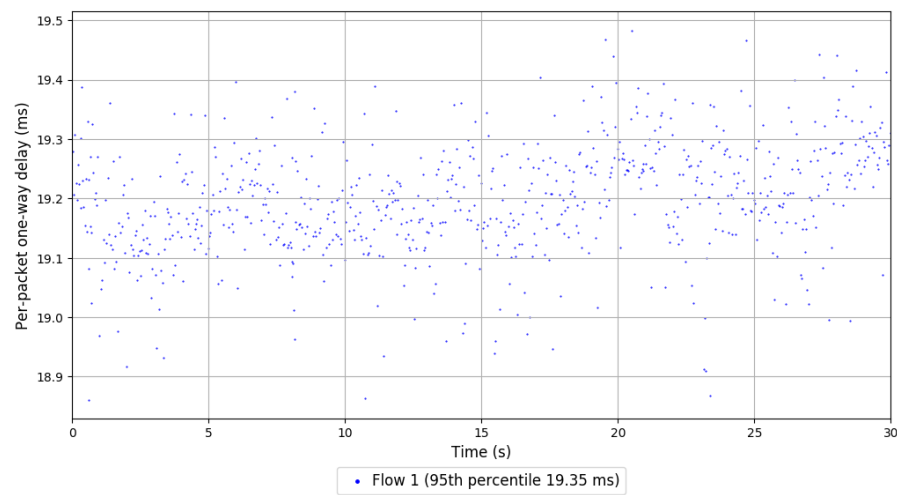
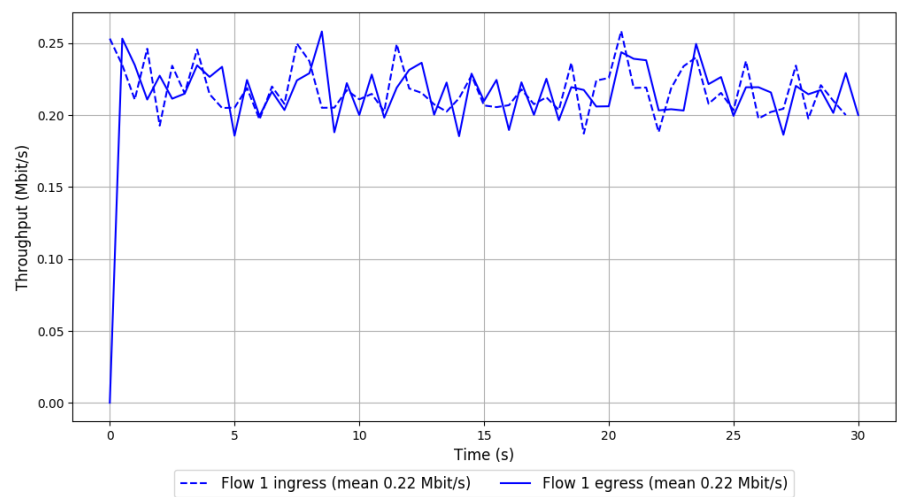
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.349 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-21 21:53:03

End at: 2018-08-21 21:53:33

Local clock offset: 0.306 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.936 ms

Loss rate: 0.00%

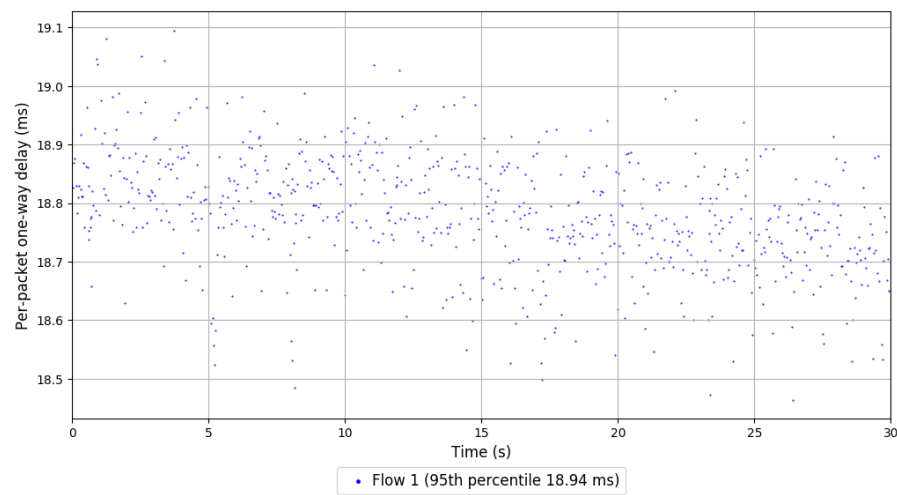
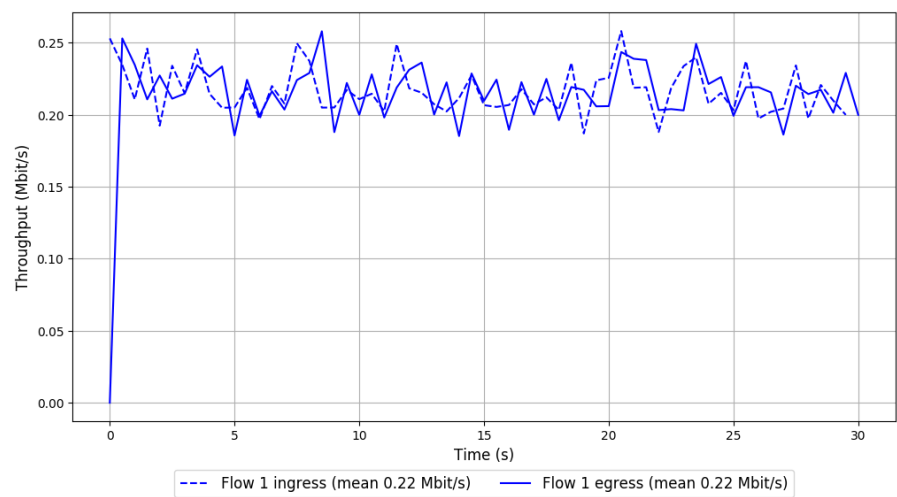
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.936 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-08-21 22:18:23

End at: 2018-08-21 22:18:53

Local clock offset: -2.07 ms

Remote clock offset: 4.149 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.935 ms

Loss rate: 0.00%

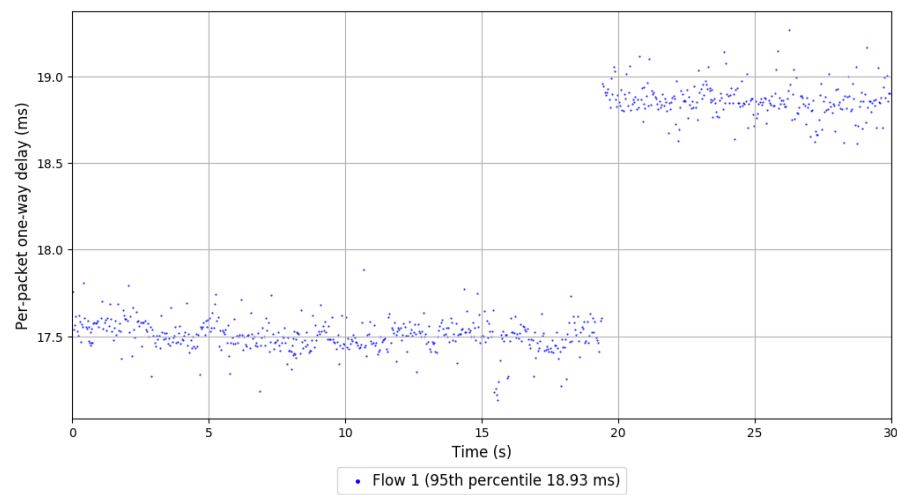
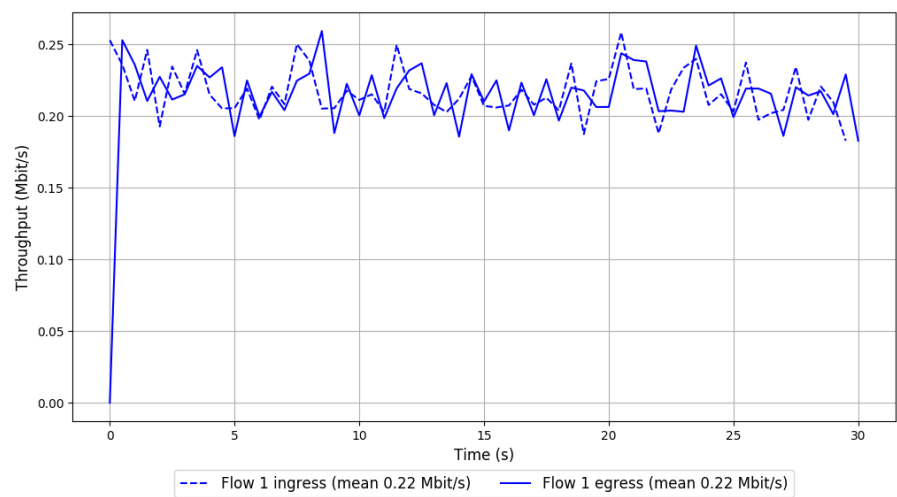
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.935 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-21 22:43:42

End at: 2018-08-21 22:44:12

Local clock offset: -1.242 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 19.353 ms

Loss rate: 0.17%

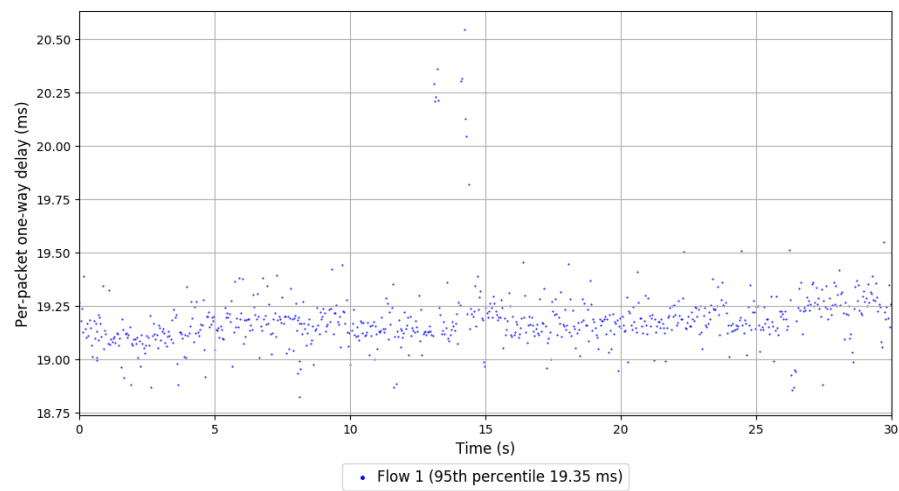
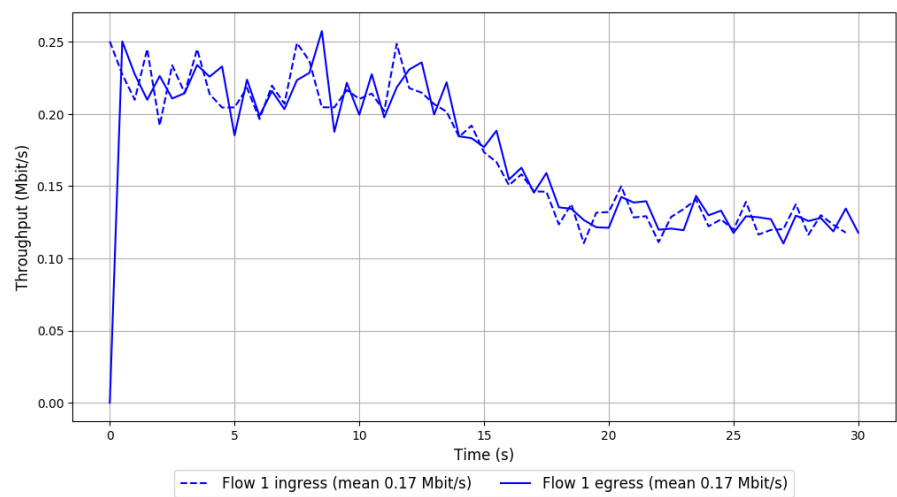
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 19.353 ms

Loss rate: 0.17%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-21 19:02:48

End at: 2018-08-21 19:03:18

Local clock offset: -2.018 ms

Remote clock offset: 3.081 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 20.766 ms

Loss rate: 0.49%

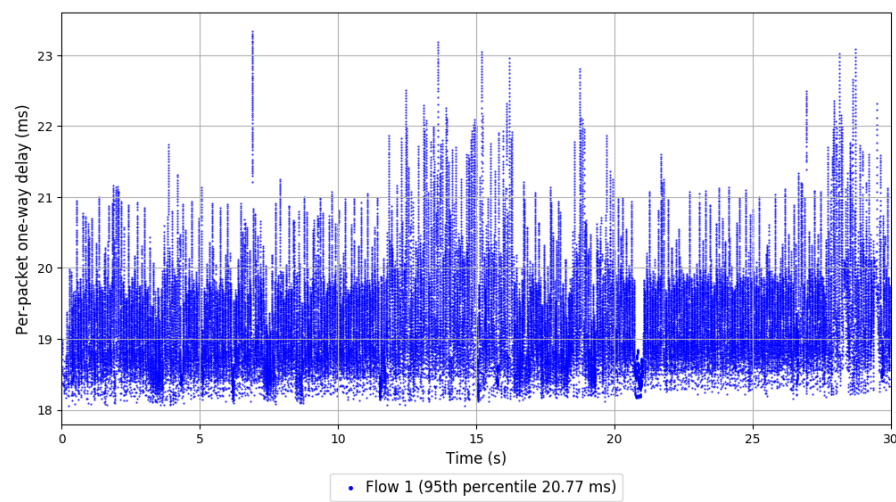
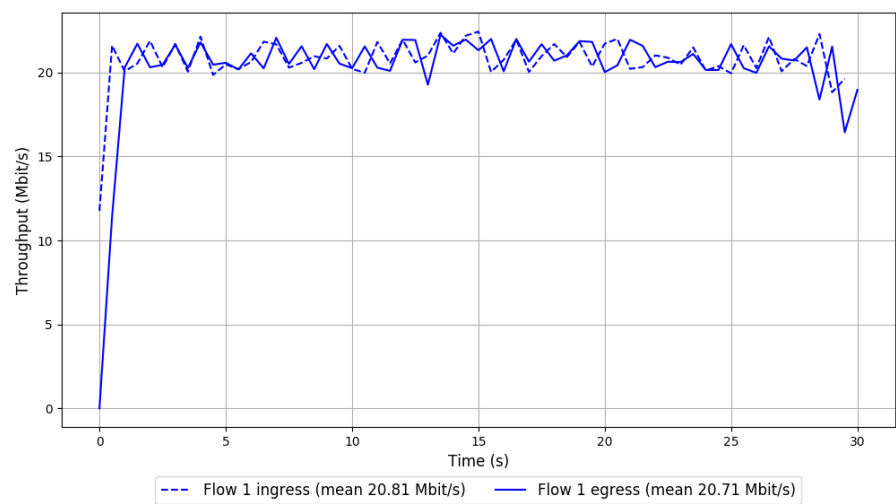
-- Flow 1:

Average throughput: 20.71 Mbit/s

95th percentile per-packet one-way delay: 20.766 ms

Loss rate: 0.49%

Run 1: Report of Sprout — Data Link

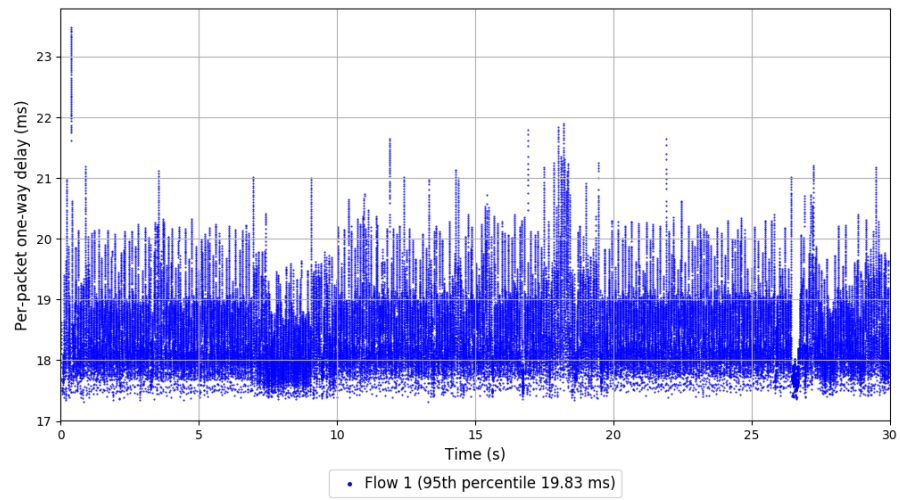
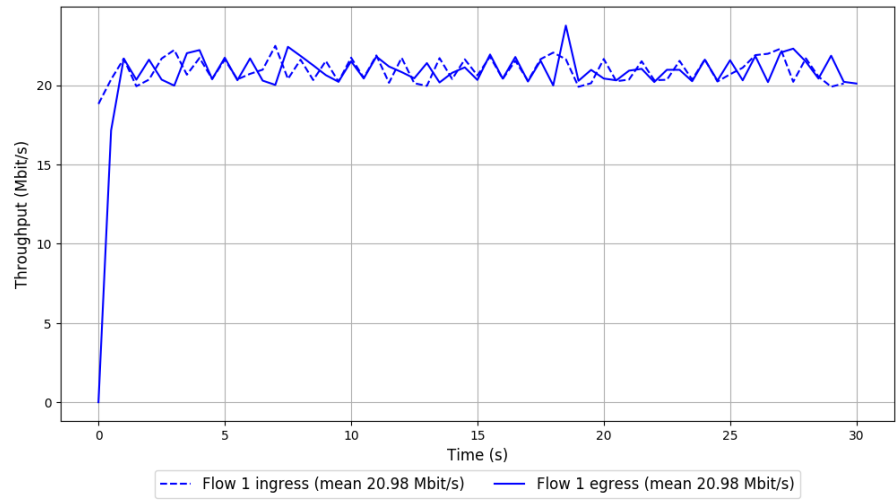


Run 2: Statistics of Sprout

Start at: 2018-08-21 19:28:12
End at: 2018-08-21 19:28:42
Local clock offset: 1.468 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-08-22 00:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 19.834 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 20.98 Mbit/s
95th percentile per-packet one-way delay: 19.834 ms
Loss rate: 0.01%

Run 2: Report of Sprout — Data Link

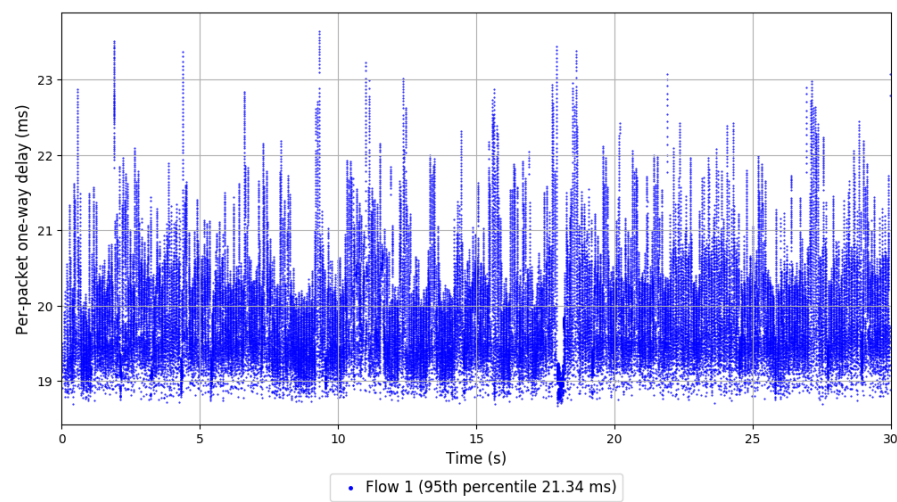
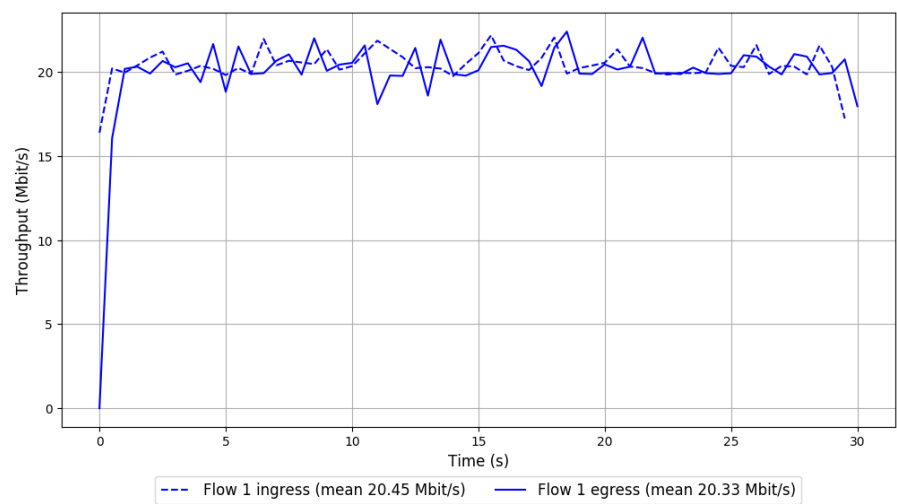


Run 3: Statistics of Sprout

Start at: 2018-08-21 19:53:21
End at: 2018-08-21 19:53:51
Local clock offset: 2.281 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-08-22 00:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 21.336 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 20.33 Mbit/s
95th percentile per-packet one-way delay: 21.336 ms
Loss rate: 0.57%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-08-21 20:18:35

End at: 2018-08-21 20:19:05

Local clock offset: 1.433 ms

Remote clock offset: 2.323 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 19.860 ms

Loss rate: 0.10%

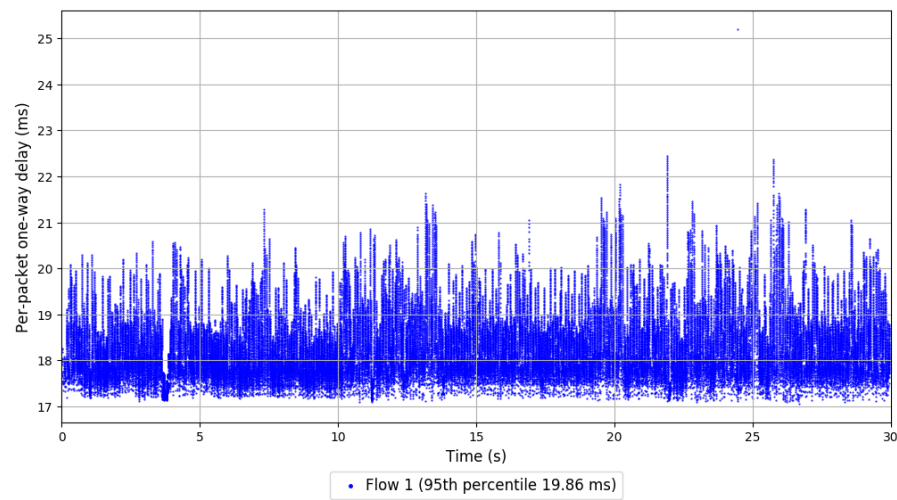
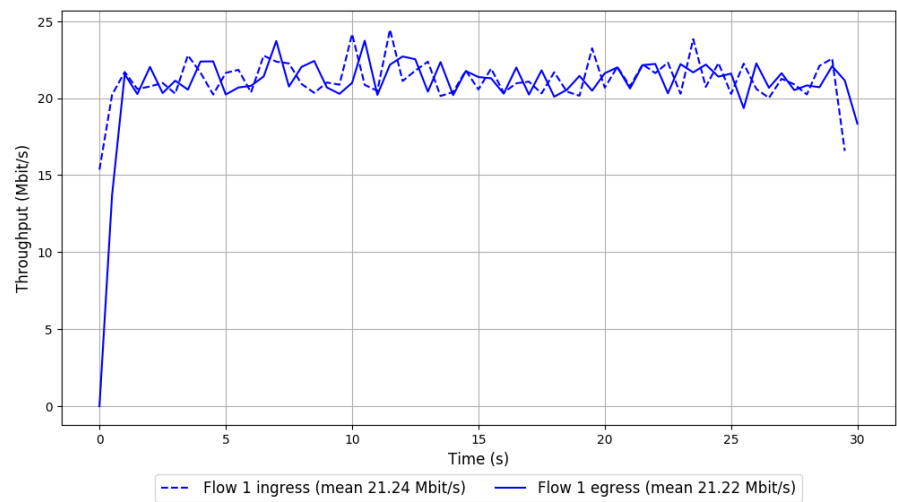
-- Flow 1:

Average throughput: 21.22 Mbit/s

95th percentile per-packet one-way delay: 19.860 ms

Loss rate: 0.10%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-21 20:43:28

End at: 2018-08-21 20:43:58

Local clock offset: 0.829 ms

Remote clock offset: 3.974 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 21.466 ms

Loss rate: 0.72%

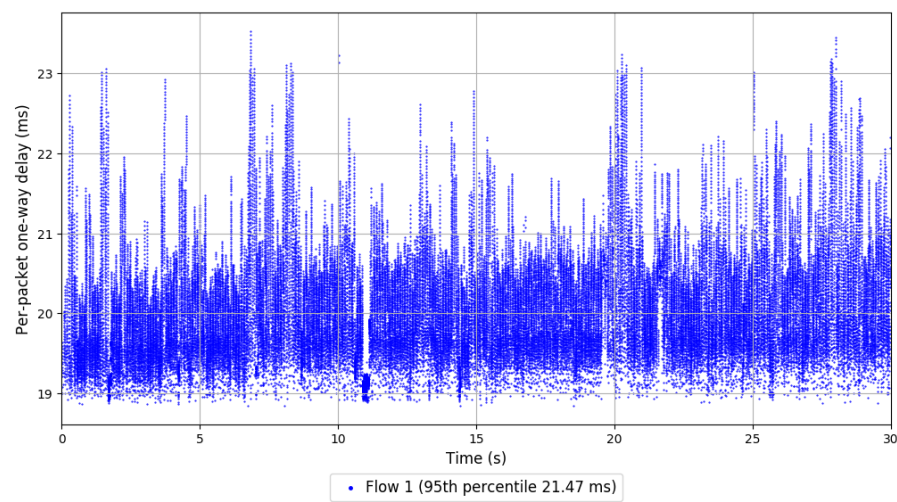
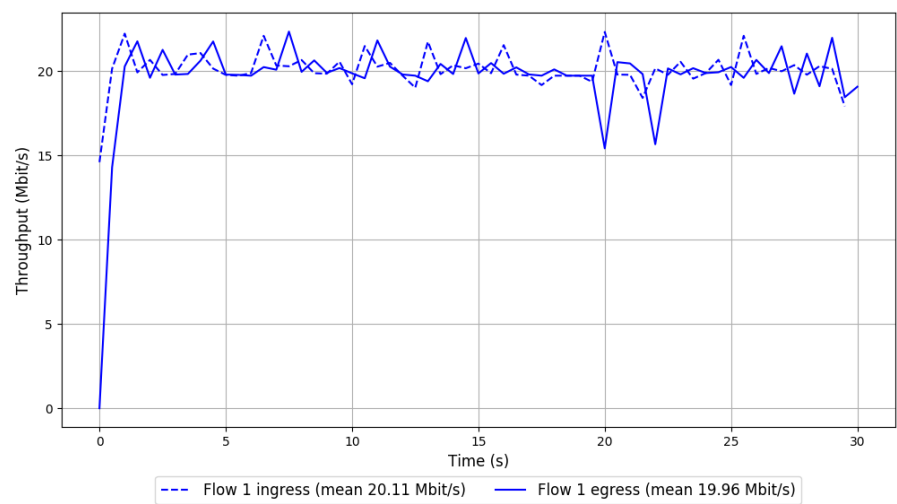
-- Flow 1:

Average throughput: 19.96 Mbit/s

95th percentile per-packet one-way delay: 21.466 ms

Loss rate: 0.72%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-21 21:08:33

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

Local clock offset: 0.853 ms

Remote clock offset: 3.386 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 20.694 ms

Loss rate: 0.00%

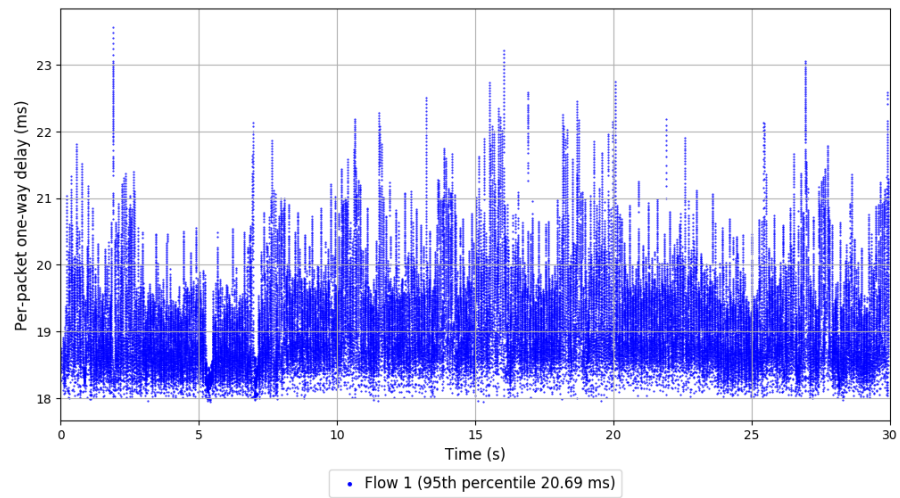
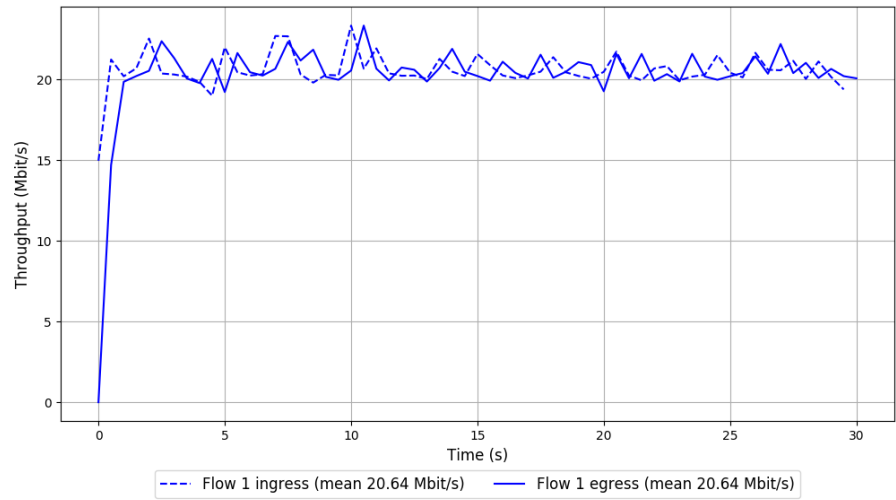
-- Flow 1:

Average throughput: 20.64 Mbit/s

95th percentile per-packet one-way delay: 20.694 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

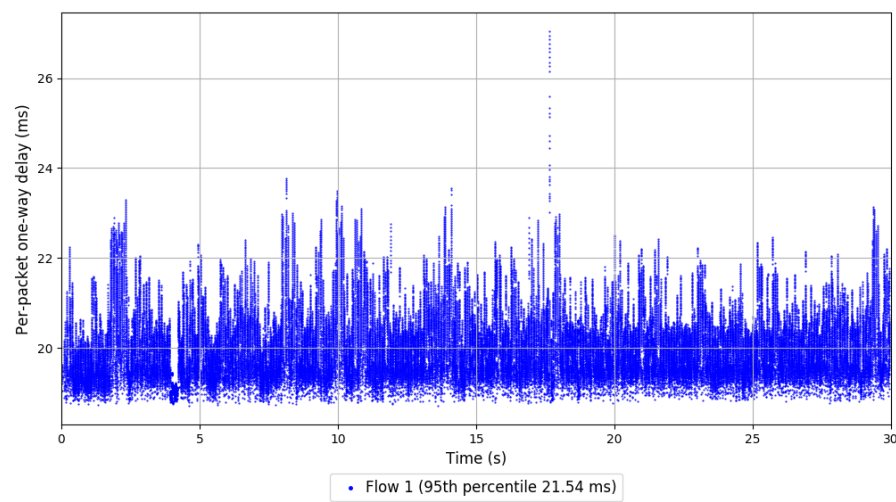
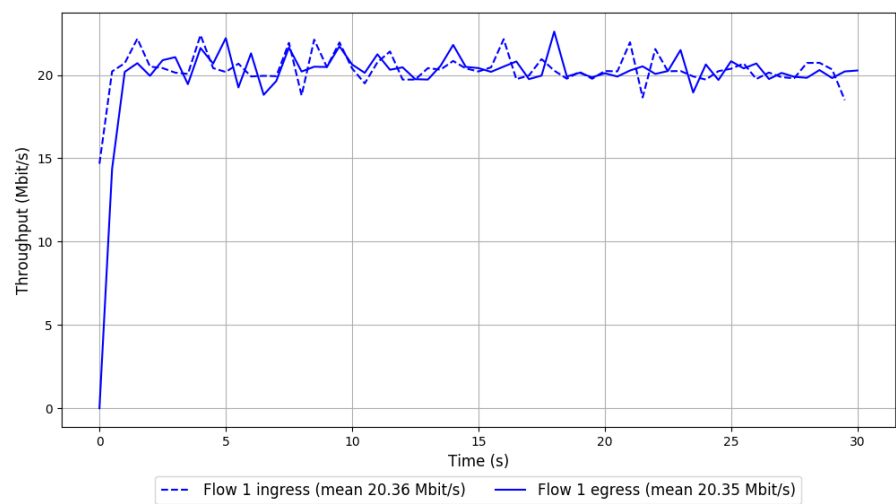


Run 7: Statistics of Sprout

Start at: 2018-08-21 21:33:35
End at: 2018-08-21 21:34:05
Local clock offset: 1.532 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-08-22 00:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 21.541 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 20.35 Mbit/s
95th percentile per-packet one-way delay: 21.541 ms
Loss rate: 0.05%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-21 21:58:56

End at: 2018-08-21 21:59:26

Local clock offset: 0.16 ms

Remote clock offset: 1.815 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 21.306 ms

Loss rate: 0.13%

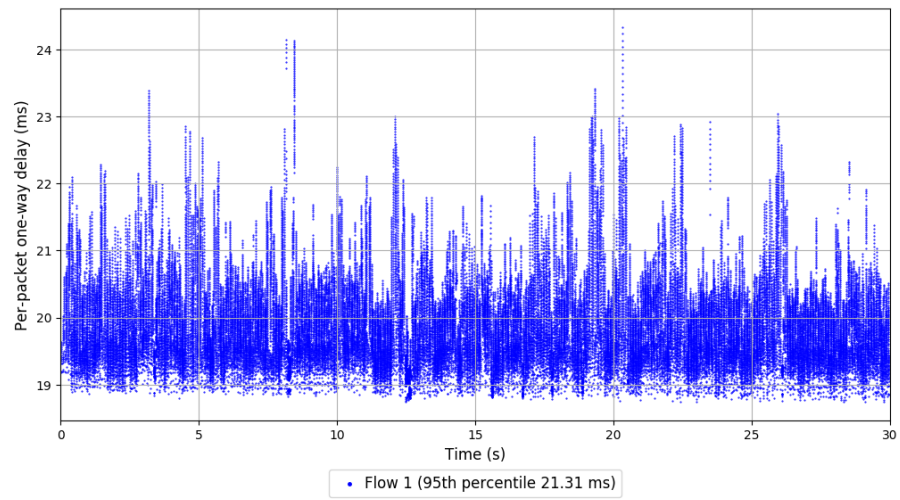
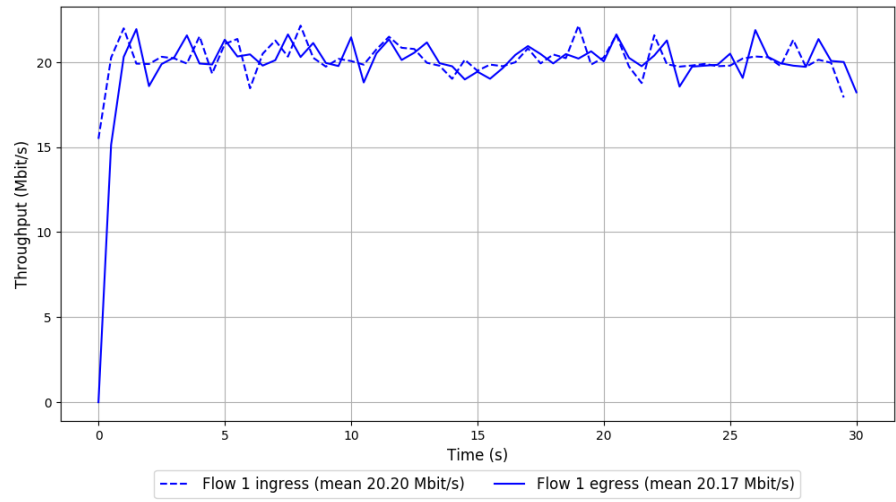
-- Flow 1:

Average throughput: 20.17 Mbit/s

95th percentile per-packet one-way delay: 21.306 ms

Loss rate: 0.13%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-08-21 22:24:14

End at: 2018-08-21 22:24:44

Local clock offset: -2.596 ms

Remote clock offset: 4.544 ms

Below is generated by plot.py at 2018-08-22 00:41:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 19.802 ms

Loss rate: 0.03%

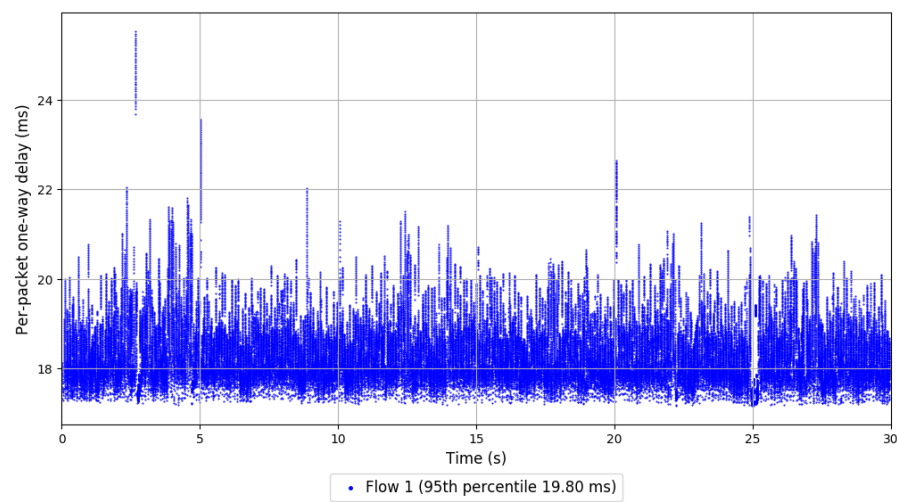
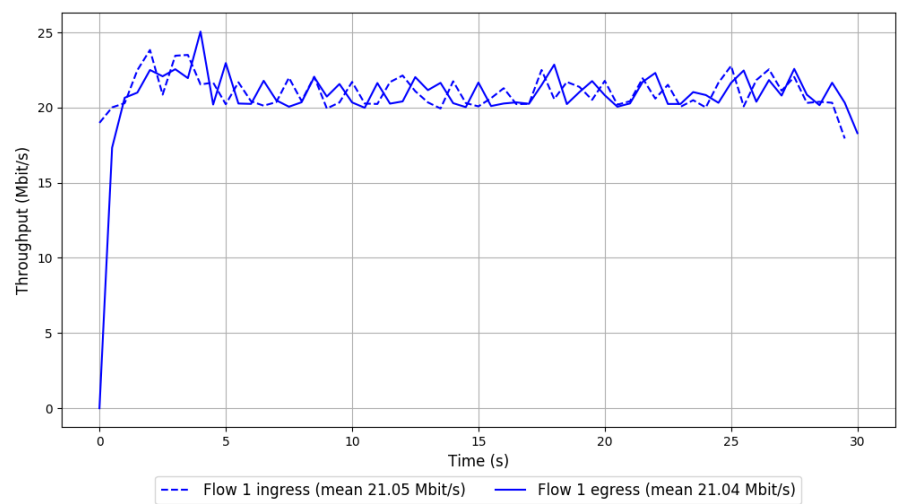
-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 19.802 ms

Loss rate: 0.03%

Run 9: Report of Sprout — Data Link

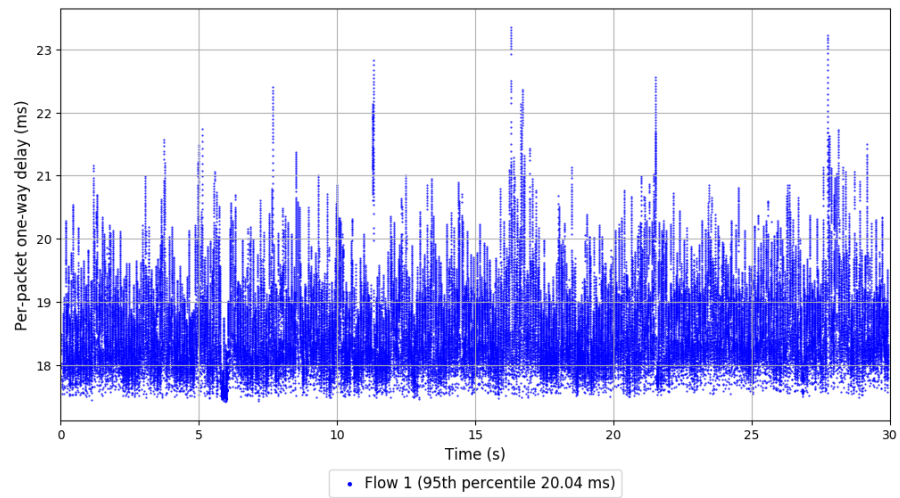
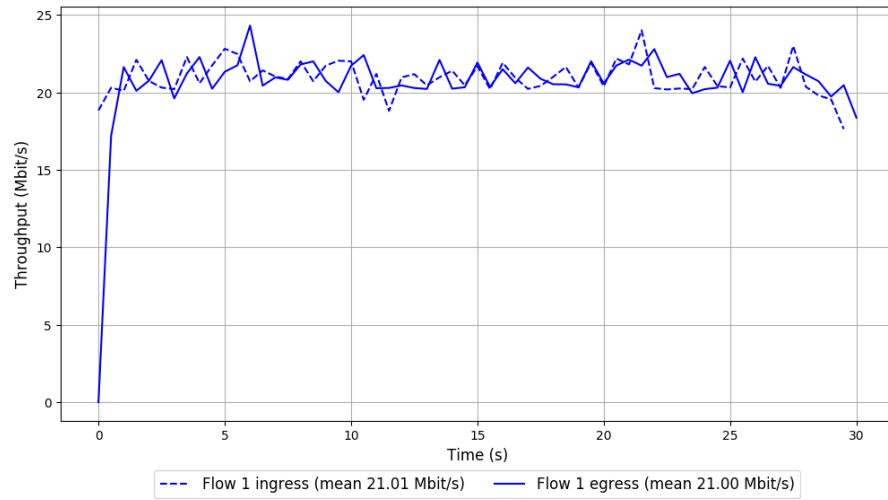


Run 10: Statistics of Sprout

Start at: 2018-08-21 22:49:33
End at: 2018-08-21 22:50:03
Local clock offset: -0.367 ms
Remote clock offset: -0.072 ms

Below is generated by plot.py at 2018-08-22 00:41:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 20.042 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 21.00 Mbit/s
95th percentile per-packet one-way delay: 20.042 ms
Loss rate: 0.03%

Run 10: Report of Sprout — Data Link

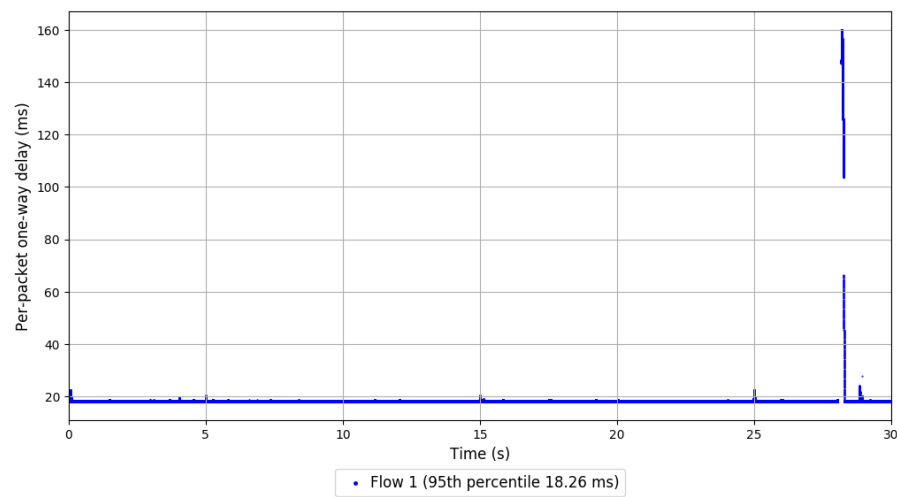
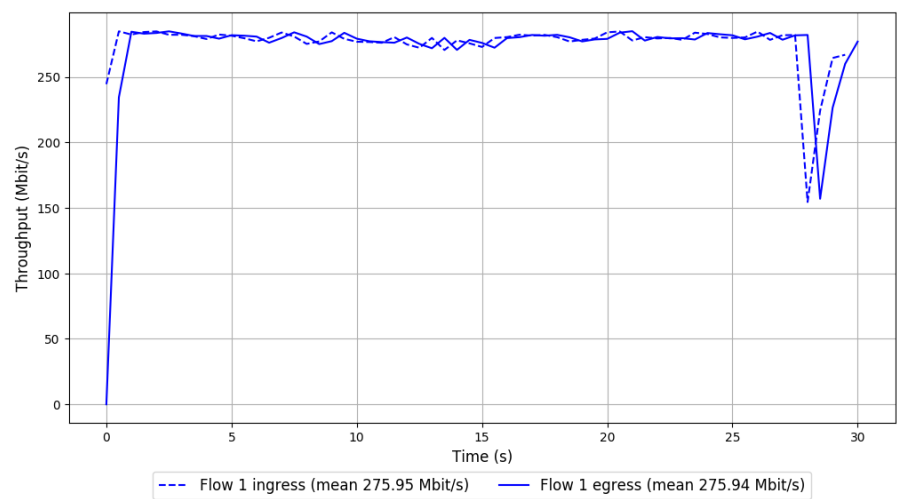


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-21 19:19:04
End at: 2018-08-21 19:19:34
Local clock offset: 0.454 ms
Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2018-08-22 00:43:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 275.94 Mbit/s
95th percentile per-packet one-way delay: 18.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 275.94 Mbit/s
95th percentile per-packet one-way delay: 18.261 ms
Loss rate: 0.00%
```


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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-21 19:44:25

End at: 2018-08-21 19:44:55

Local clock offset: 2.041 ms

Remote clock offset: -0.118 ms

Below is generated by plot.py at 2018-08-22 00:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.72 Mbit/s

95th percentile per-packet one-way delay: 18.817 ms

Loss rate: 0.00%

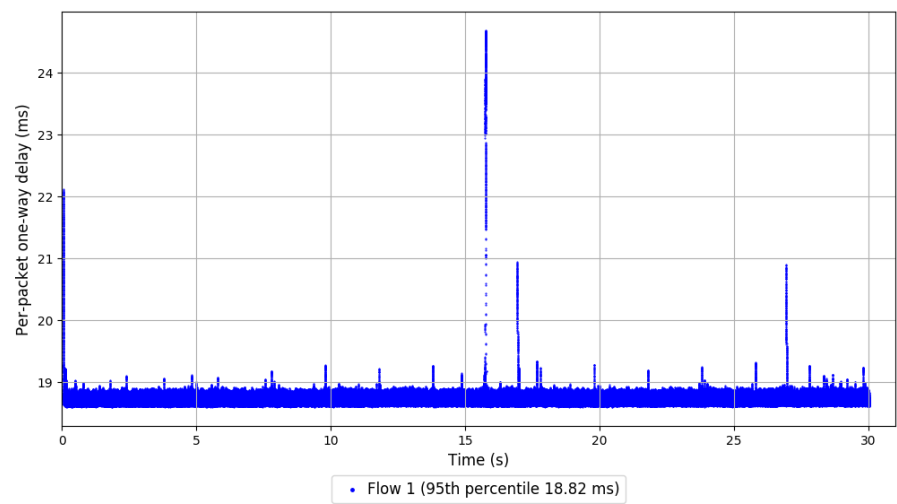
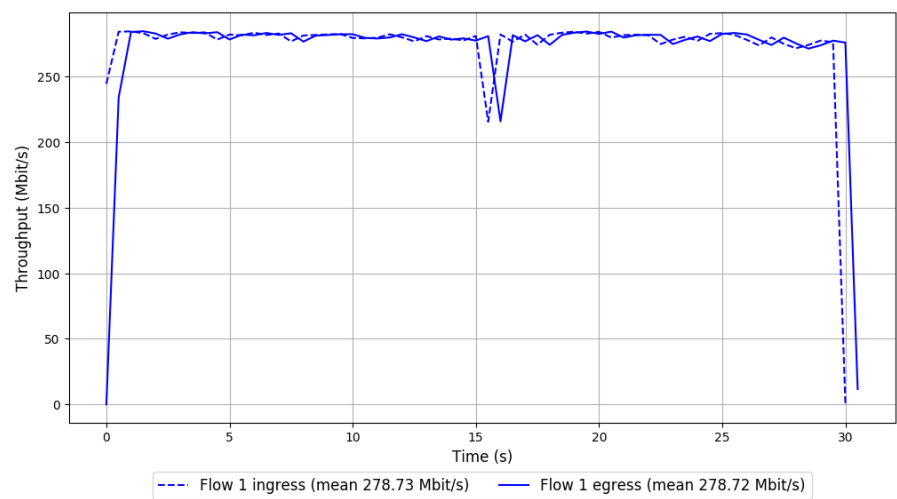
-- Flow 1:

Average throughput: 278.72 Mbit/s

95th percentile per-packet one-way delay: 18.817 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-21 20:09:32

End at: 2018-08-21 20:10:02

Local clock offset: 2.43 ms

Remote clock offset: 0.219 ms

Below is generated by plot.py at 2018-08-22 00:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.89 Mbit/s

95th percentile per-packet one-way delay: 17.913 ms

Loss rate: 0.08%

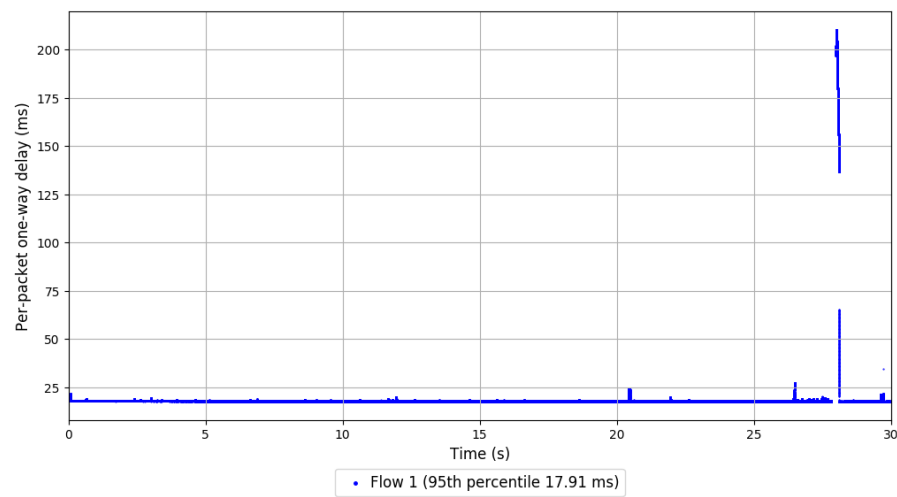
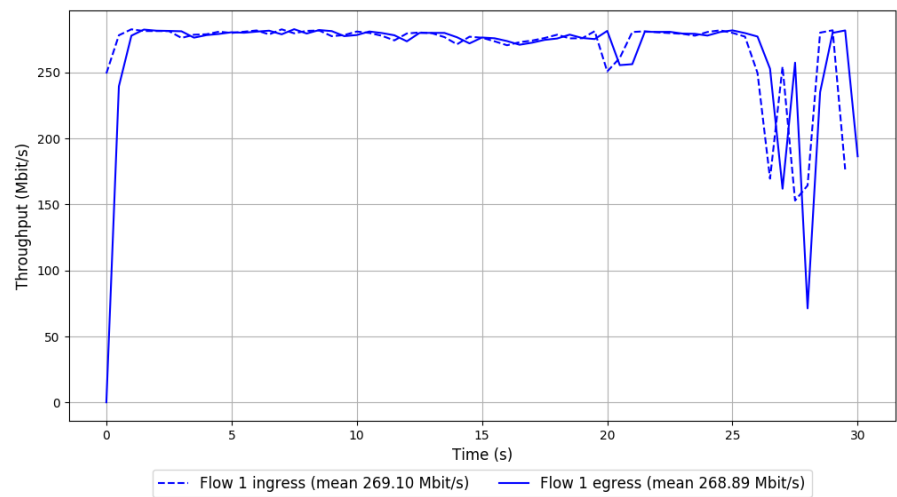
-- Flow 1:

Average throughput: 268.89 Mbit/s

95th percentile per-packet one-way delay: 17.913 ms

Loss rate: 0.08%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-08-21 20:34:48

End at: 2018-08-21 20:35:18

Local clock offset: 1.074 ms

Remote clock offset: 3.726 ms

Below is generated by plot.py at 2018-08-22 00:43:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.00 Mbit/s

95th percentile per-packet one-way delay: 17.309 ms

Loss rate: 0.01%

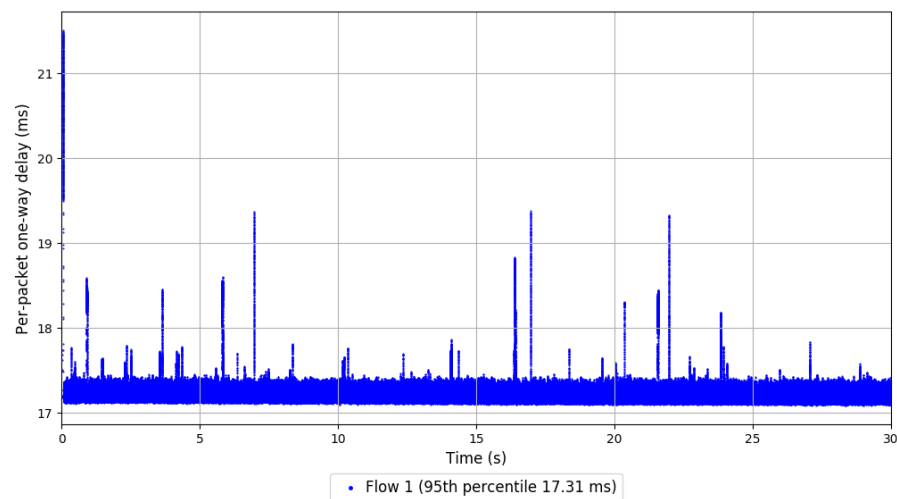
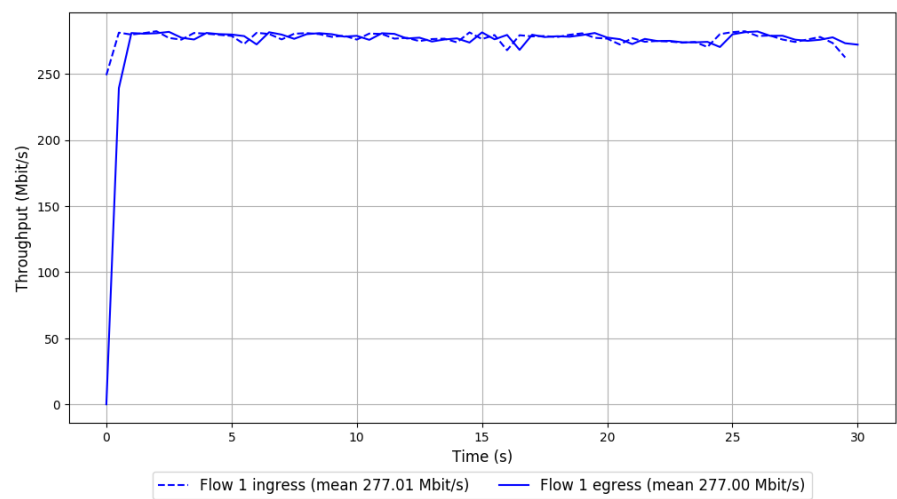
-- Flow 1:

Average throughput: 277.00 Mbit/s

95th percentile per-packet one-way delay: 17.309 ms

Loss rate: 0.01%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-21 20:59:35

End at: 2018-08-21 21:00:05

Local clock offset: 0.743 ms

Remote clock offset: 3.256 ms

Below is generated by plot.py at 2018-08-22 00:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.12 Mbit/s

95th percentile per-packet one-way delay: 18.963 ms

Loss rate: 0.01%

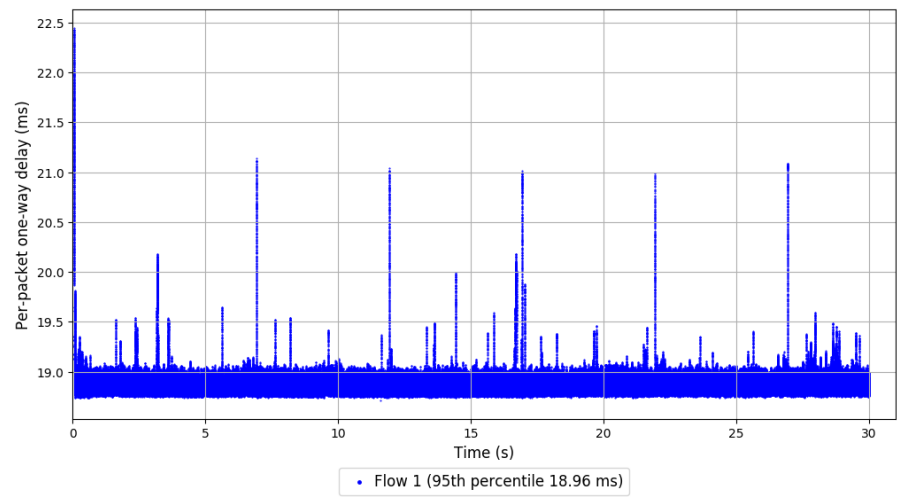
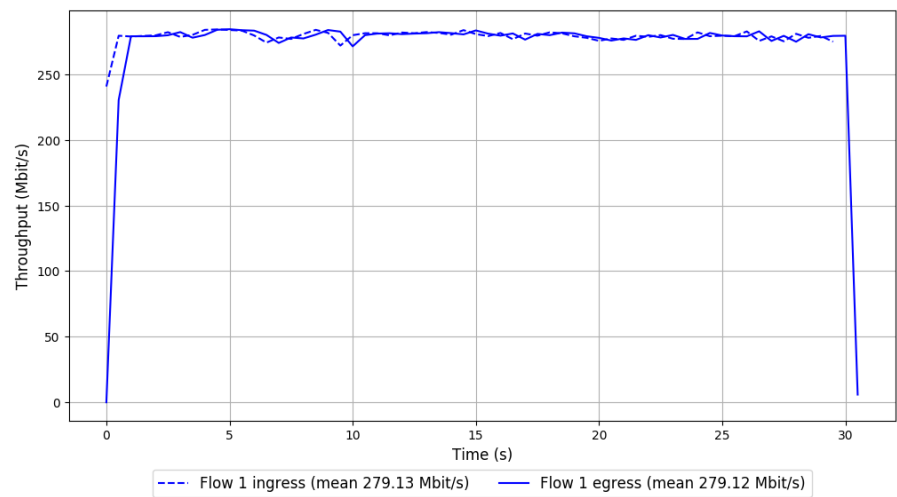
-- Flow 1:

Average throughput: 279.12 Mbit/s

95th percentile per-packet one-way delay: 18.963 ms

Loss rate: 0.01%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-21 21:24:40

End at: 2018-08-21 21:25:10

Local clock offset: 1.395 ms

Remote clock offset: 1.131 ms

Below is generated by plot.py at 2018-08-22 00:45:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.17 Mbit/s

95th percentile per-packet one-way delay: 19.119 ms

Loss rate: 0.14%

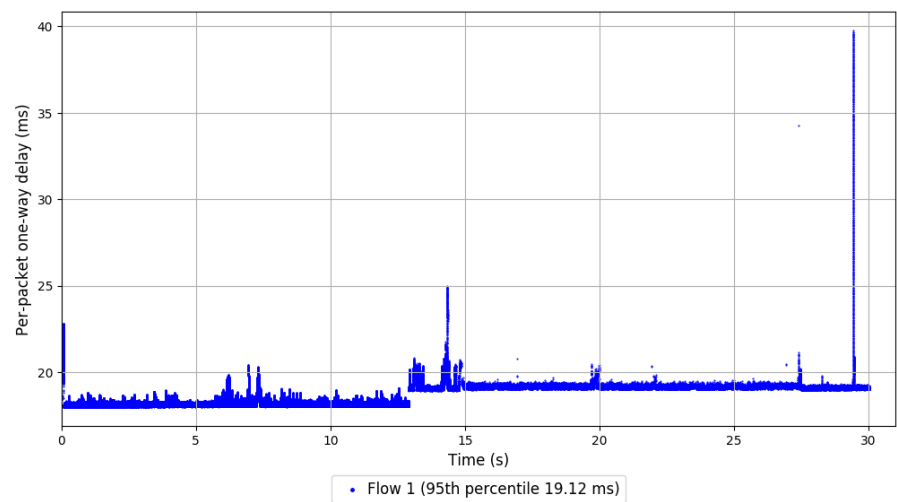
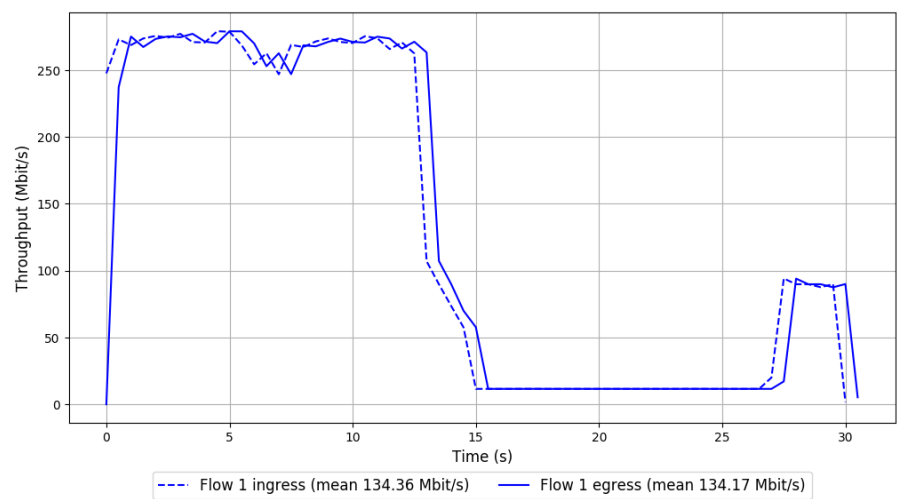
-- Flow 1:

Average throughput: 134.17 Mbit/s

95th percentile per-packet one-way delay: 19.119 ms

Loss rate: 0.14%

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

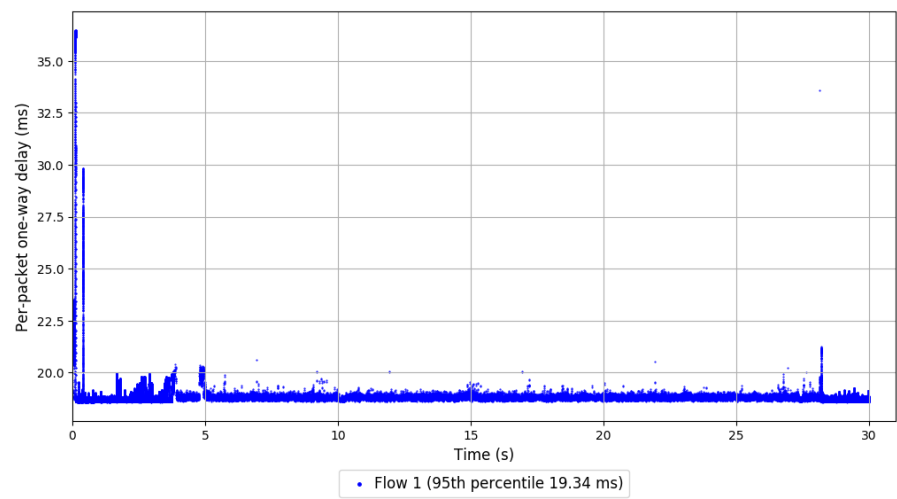
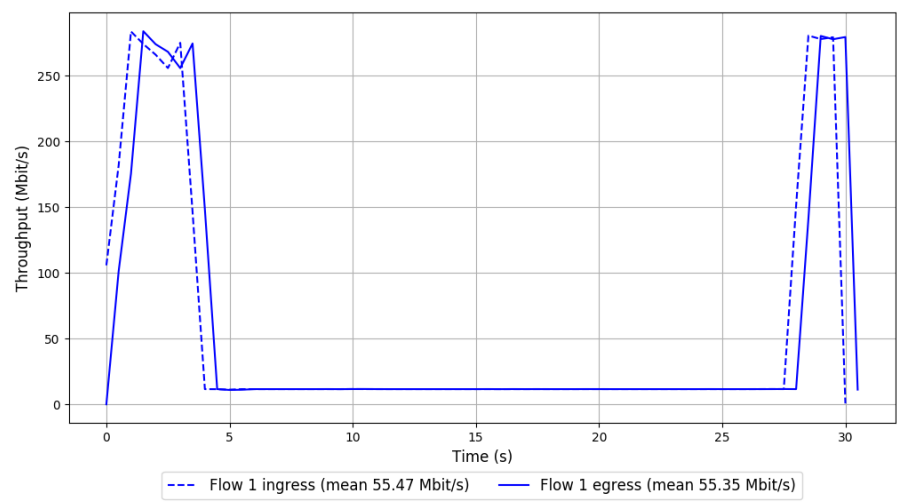


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-21 21:49:59
End at: 2018-08-21 21:50:29
Local clock offset: 0.393 ms
Remote clock offset: -1.007 ms

Below is generated by plot.py at 2018-08-22 00:45:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 19.335 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 55.35 Mbit/s
95th percentile per-packet one-way delay: 19.335 ms
Loss rate: 0.22%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-21 22:15:10

End at: 2018-08-21 22:15:40

Local clock offset: -1.58 ms

Remote clock offset: 4.041 ms

Below is generated by plot.py at 2018-08-22 00:47:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.86 Mbit/s

95th percentile per-packet one-way delay: 18.124 ms

Loss rate: 0.07%

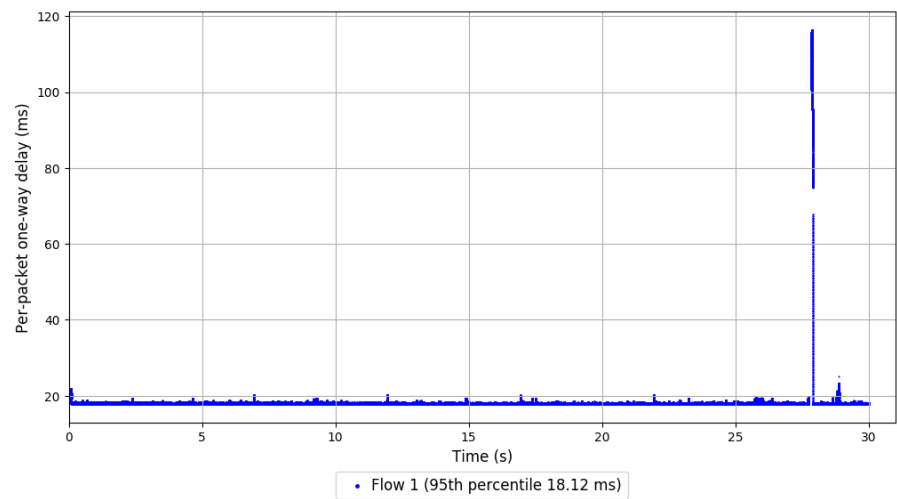
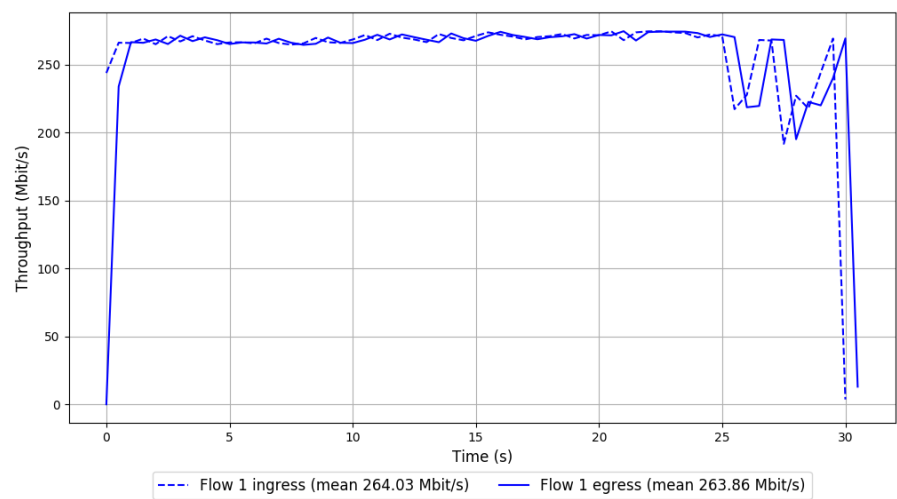
-- Flow 1:

Average throughput: 263.86 Mbit/s

95th percentile per-packet one-way delay: 18.124 ms

Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-21 22:40:31

End at: 2018-08-21 22:41:01

Local clock offset: -2.136 ms

Remote clock offset: 0.549 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.62 Mbit/s

95th percentile per-packet one-way delay: 19.190 ms

Loss rate: 0.01%

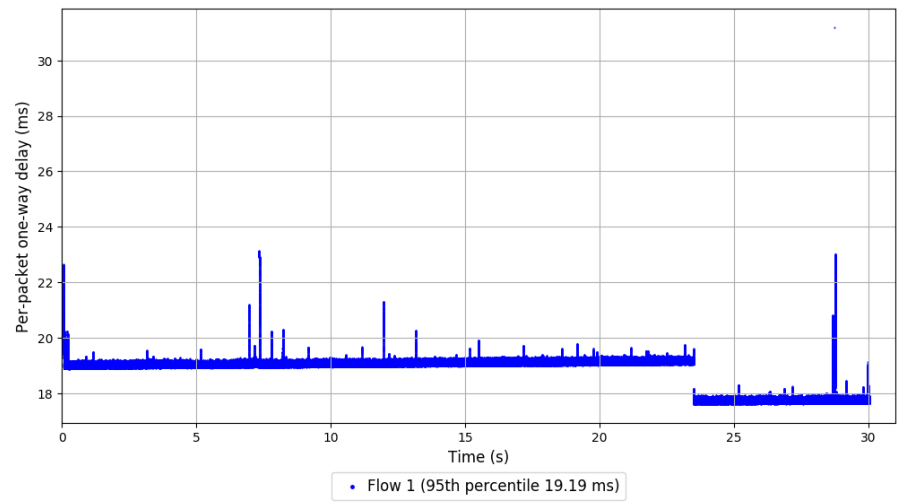
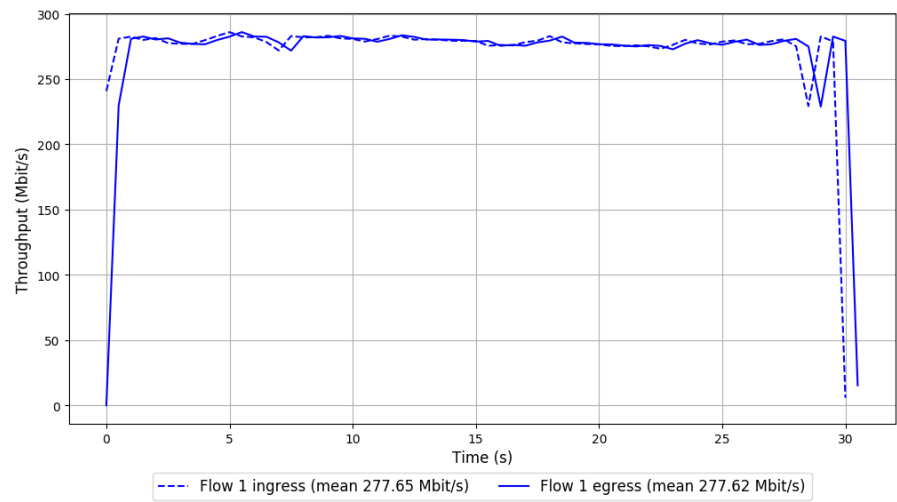
-- Flow 1:

Average throughput: 277.62 Mbit/s

95th percentile per-packet one-way delay: 19.190 ms

Loss rate: 0.01%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-21 23:05:40

End at: 2018-08-21 23:06:10

Local clock offset: 0.626 ms

Remote clock offset: 1.612 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 99.36 Mbit/s

95th percentile per-packet one-way delay: 18.164 ms

Loss rate: 0.11%

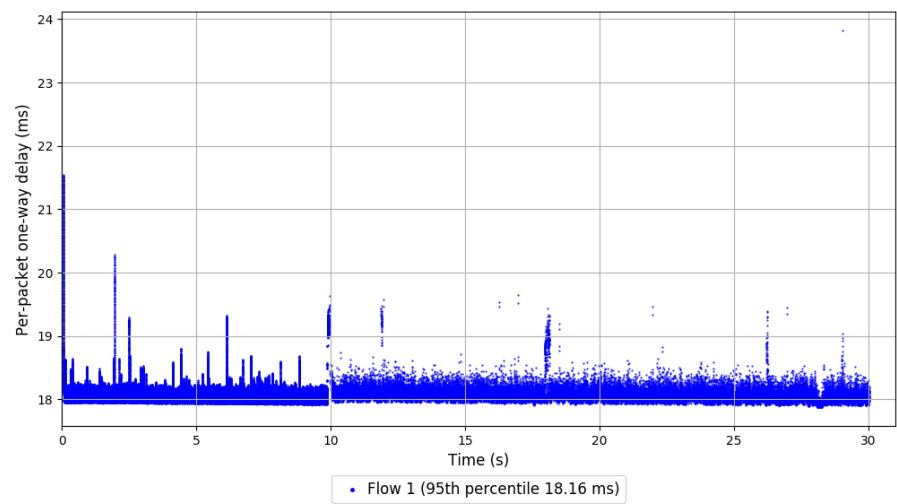
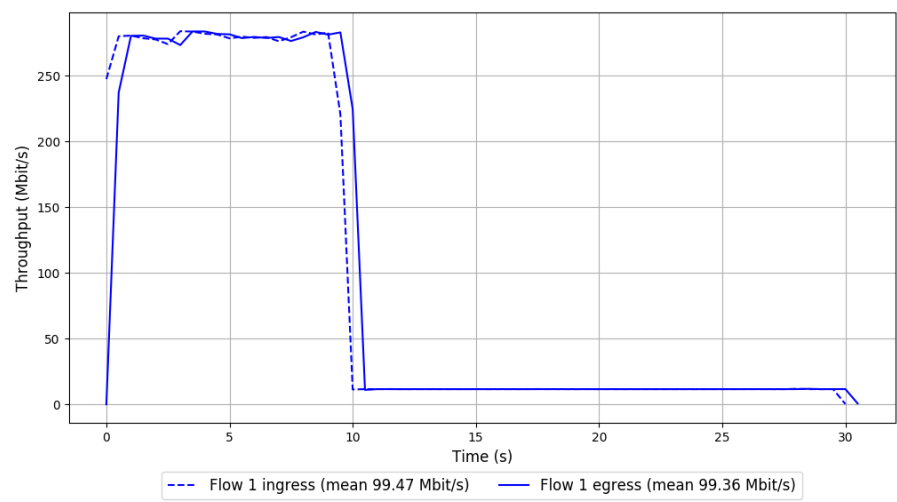
-- Flow 1:

Average throughput: 99.36 Mbit/s

95th percentile per-packet one-way delay: 18.164 ms

Loss rate: 0.11%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-21 19:08:45

End at: 2018-08-21 19:09:15

Local clock offset: -1.642 ms

Remote clock offset: 1.468 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 165.87 Mbit/s

95th percentile per-packet one-way delay: 18.860 ms

Loss rate: 0.04%

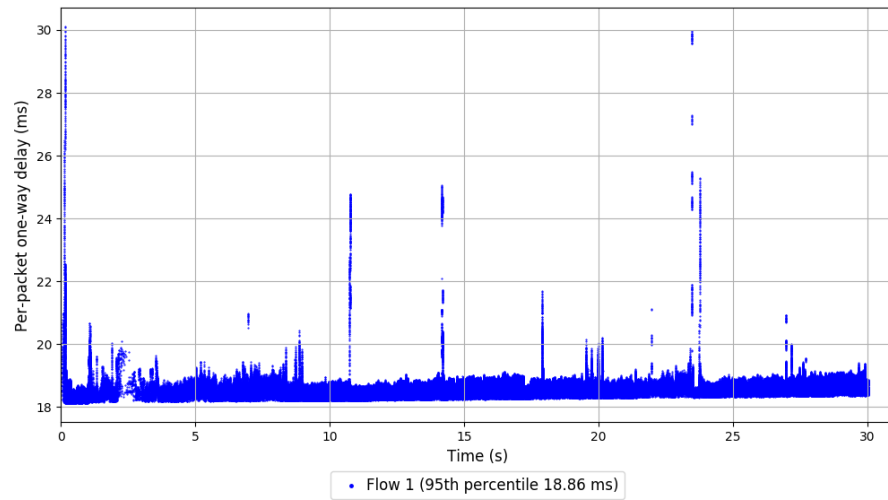
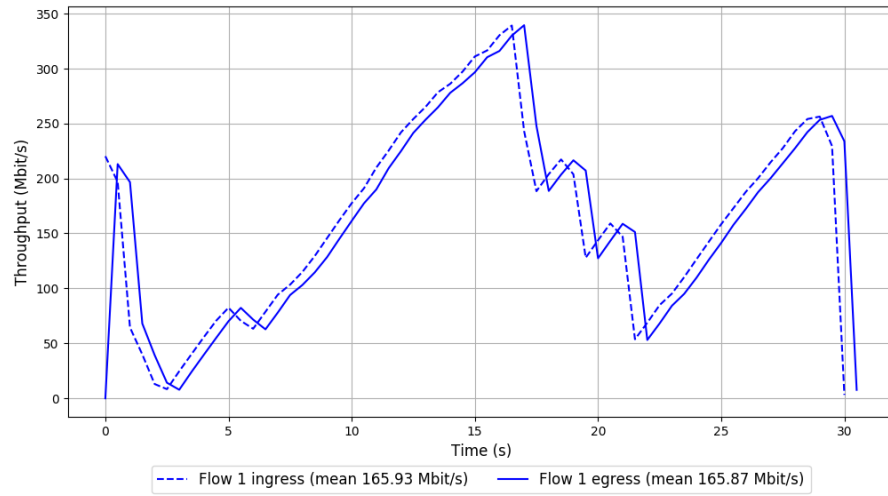
-- Flow 1:

Average throughput: 165.87 Mbit/s

95th percentile per-packet one-way delay: 18.860 ms

Loss rate: 0.04%

Run 1: Report of TCP Vegas — Data Link

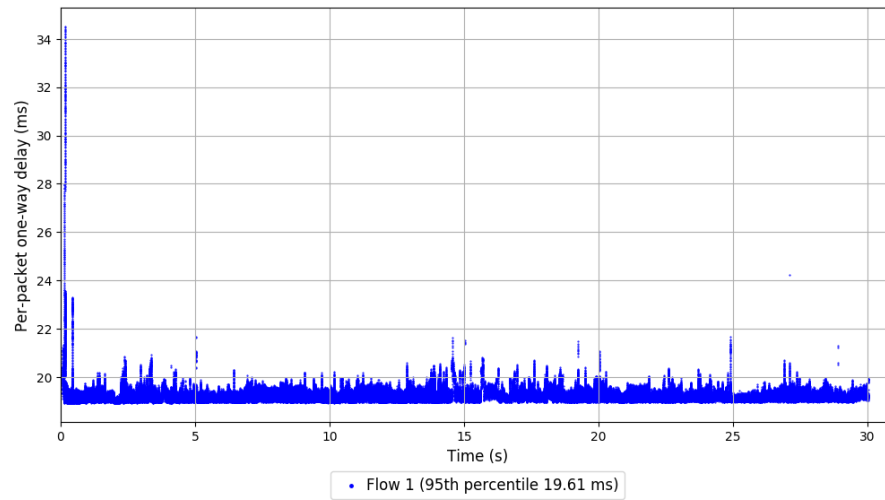
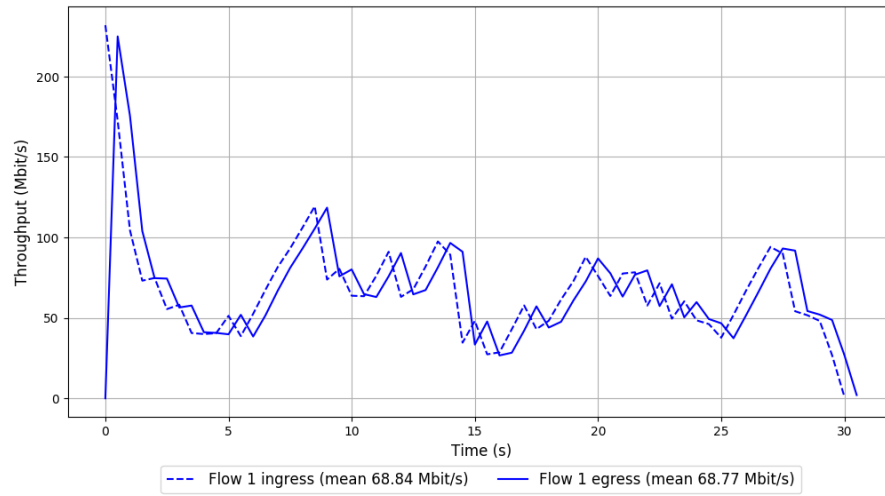


Run 2: Statistics of TCP Vegas

Start at: 2018-08-21 19:34:07
End at: 2018-08-21 19:34:37
Local clock offset: 1.871 ms
Remote clock offset: -0.199 ms

Below is generated by plot.py at 2018-08-22 00:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 19.607 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 68.77 Mbit/s
95th percentile per-packet one-way delay: 19.607 ms
Loss rate: 0.11%

Run 2: Report of TCP Vegas — Data Link

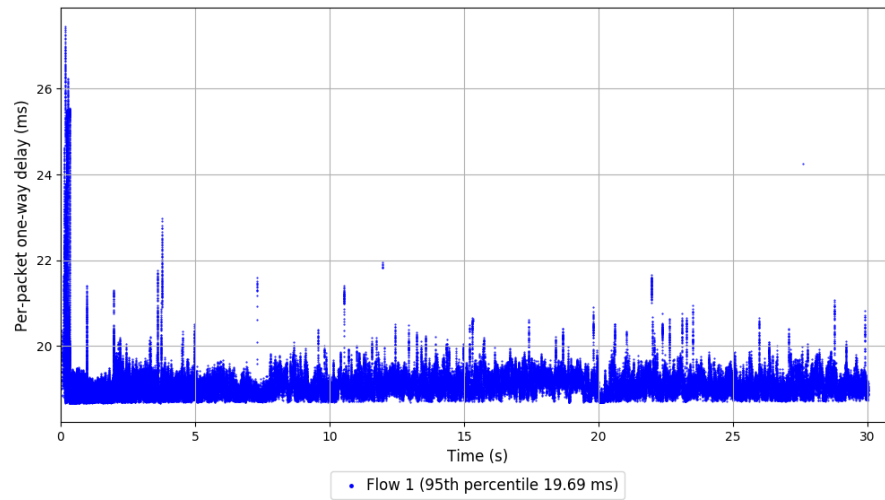
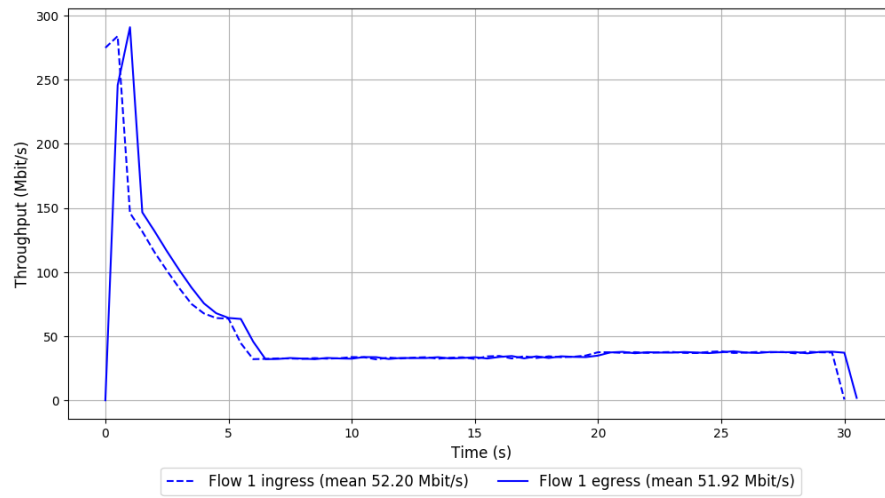


Run 3: Statistics of TCP Vegas

Start at: 2018-08-21 19:59:19
End at: 2018-08-21 19:59:49
Local clock offset: 2.535 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-08-22 00:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 19.687 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 51.92 Mbit/s
95th percentile per-packet one-way delay: 19.687 ms
Loss rate: 0.53%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-21 20:24:30

End at: 2018-08-21 20:25:00

Local clock offset: 1.166 ms

Remote clock offset: 3.032 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 19.557 ms

Loss rate: 0.43%

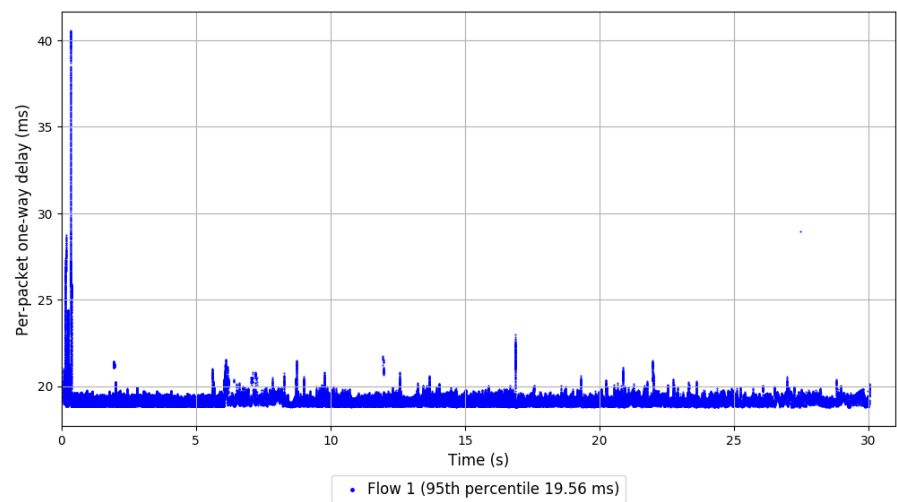
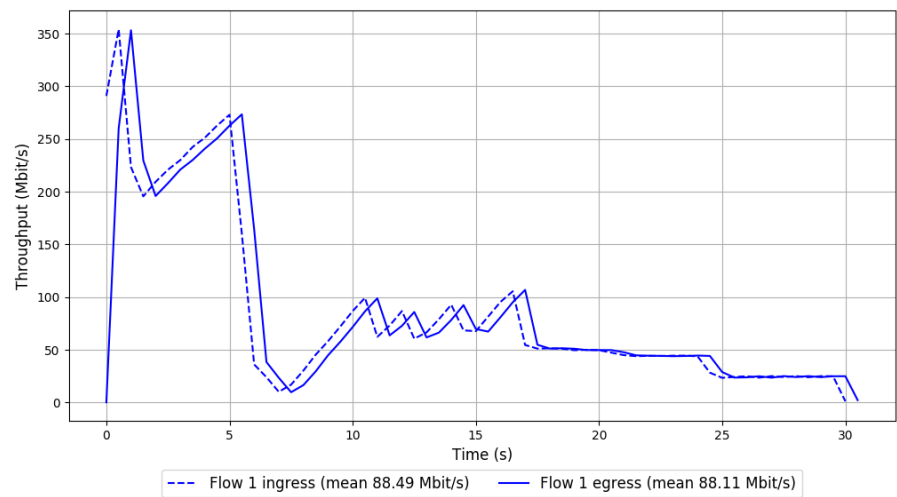
-- Flow 1:

Average throughput: 88.11 Mbit/s

95th percentile per-packet one-way delay: 19.557 ms

Loss rate: 0.43%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-21 20:49:24

End at: 2018-08-21 20:49:54

Local clock offset: 0.749 ms

Remote clock offset: 3.597 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 19.529 ms

Loss rate: 0.01%

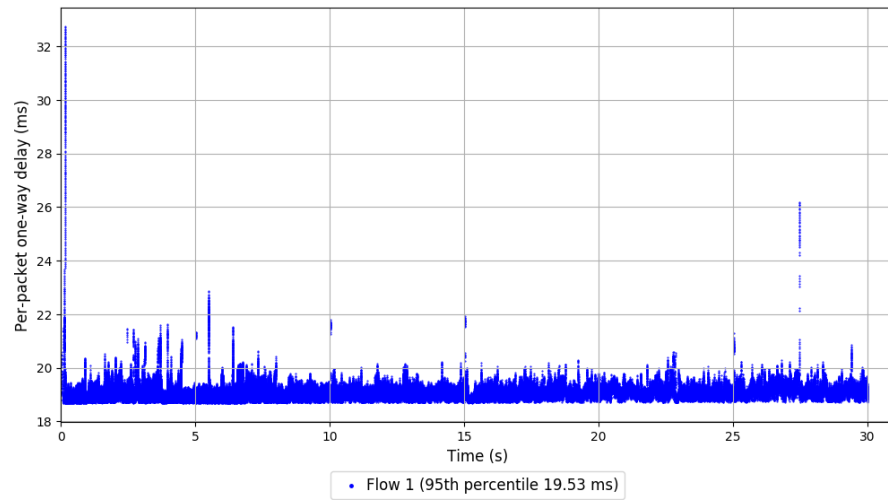
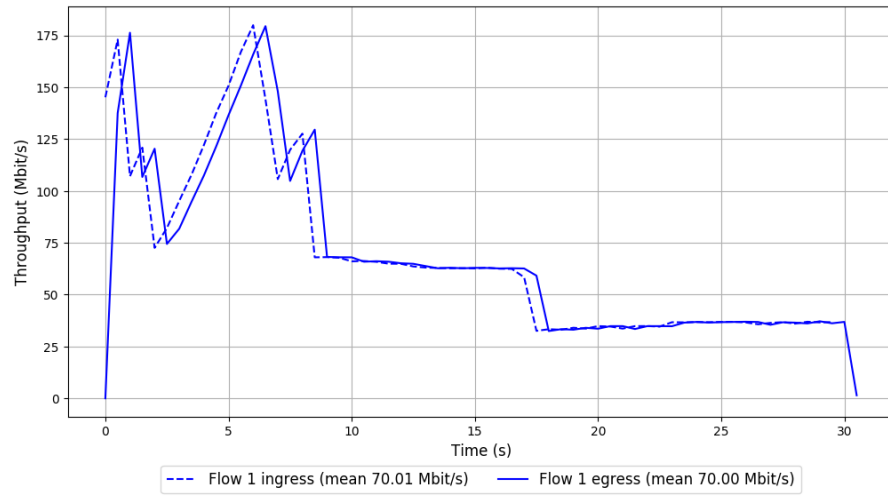
-- Flow 1:

Average throughput: 70.00 Mbit/s

95th percentile per-packet one-way delay: 19.529 ms

Loss rate: 0.01%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-21 21:14:31

End at: 2018-08-21 21:15:01

Local clock offset: 1.014 ms

Remote clock offset: 3.484 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.54 Mbit/s

95th percentile per-packet one-way delay: 21.786 ms

Loss rate: 0.49%

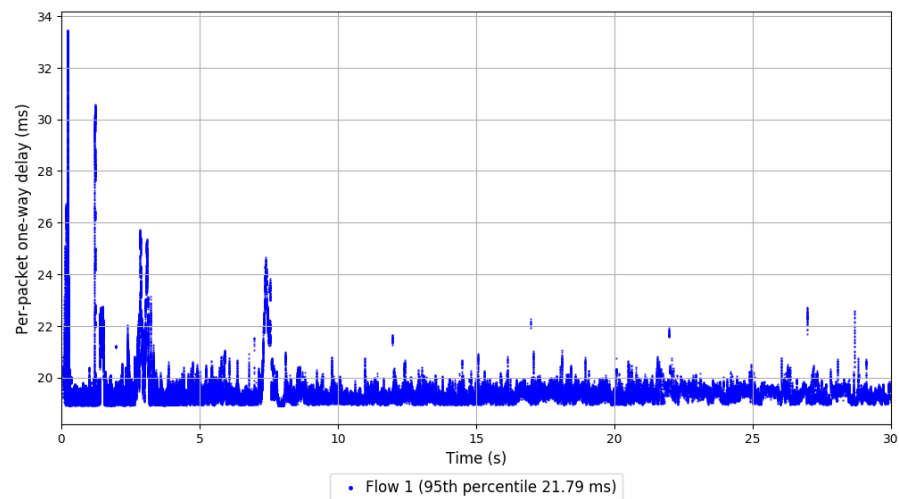
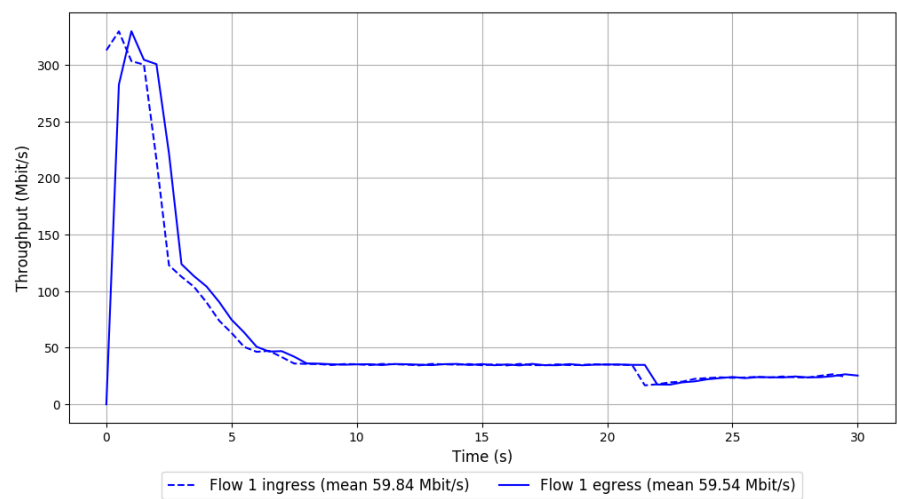
-- Flow 1:

Average throughput: 59.54 Mbit/s

95th percentile per-packet one-way delay: 21.786 ms

Loss rate: 0.49%

Run 6: Report of TCP Vegas — Data Link

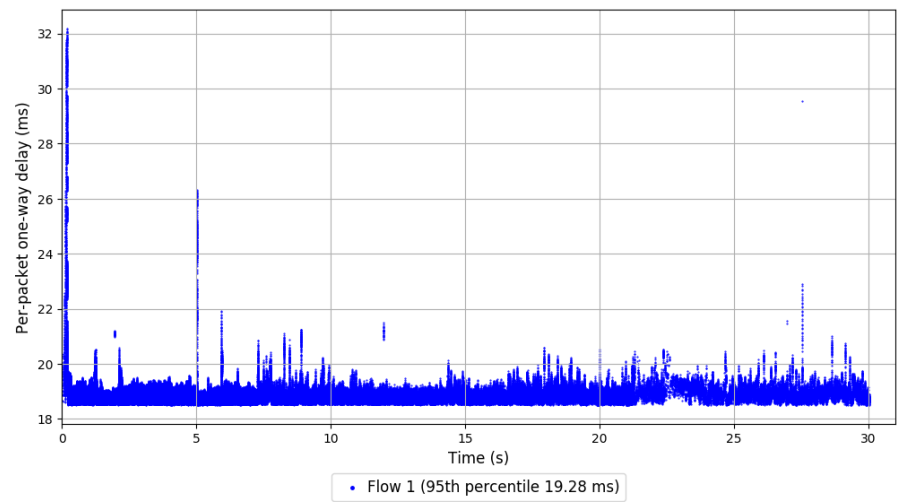
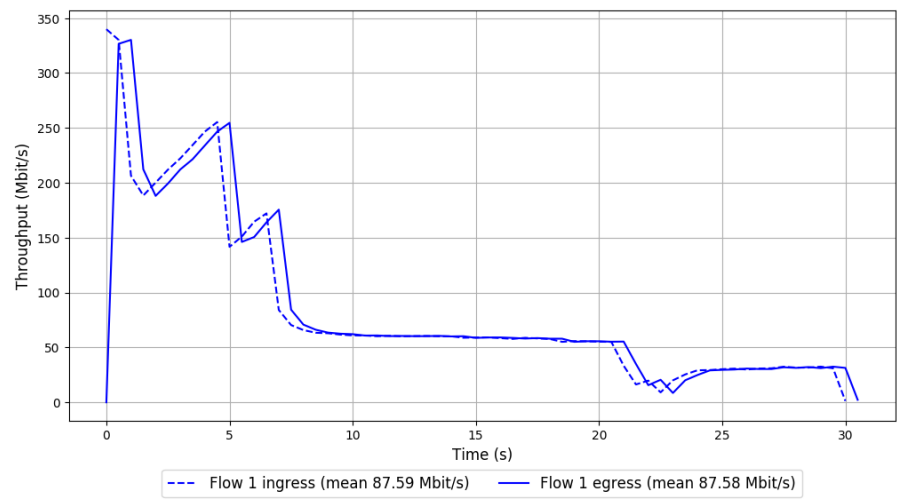


Run 7: Statistics of TCP Vegas

Start at: 2018-08-21 21:39:37
End at: 2018-08-21 21:40:07
Local clock offset: 1.298 ms
Remote clock offset: -0.526 ms

Below is generated by plot.py at 2018-08-22 00:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 19.284 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 87.58 Mbit/s
95th percentile per-packet one-way delay: 19.284 ms
Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-21 22:04:55

End at: 2018-08-21 22:05:25

Local clock offset: 0.041 ms

Remote clock offset: 2.89 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 123.13 Mbit/s

95th percentile per-packet one-way delay: 19.428 ms

Loss rate: 0.30%

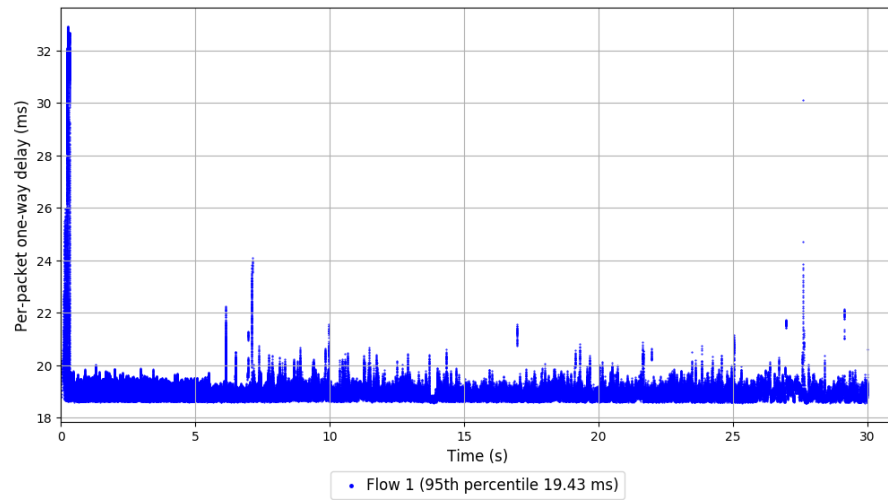
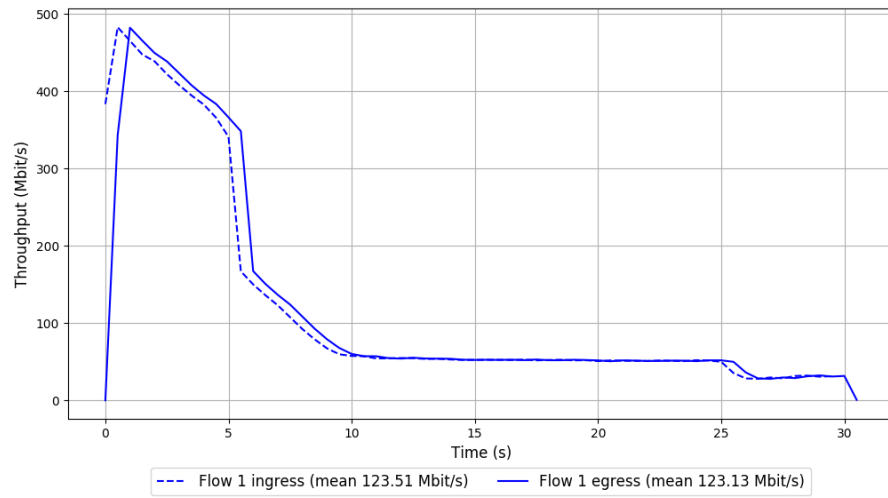
-- Flow 1:

Average throughput: 123.13 Mbit/s

95th percentile per-packet one-way delay: 19.428 ms

Loss rate: 0.30%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-21 22:30:12

End at: 2018-08-21 22:30:42

Local clock offset: -2.931 ms

Remote clock offset: 2.445 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 20.150 ms

Loss rate: 0.32%

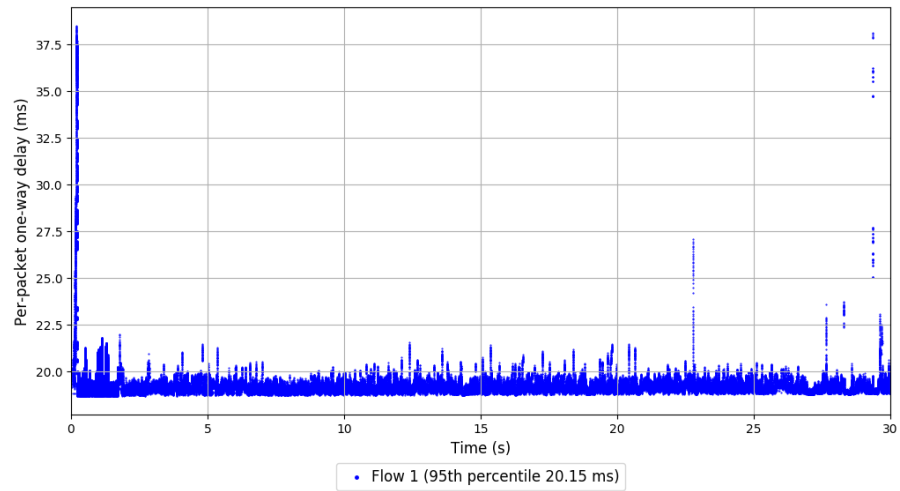
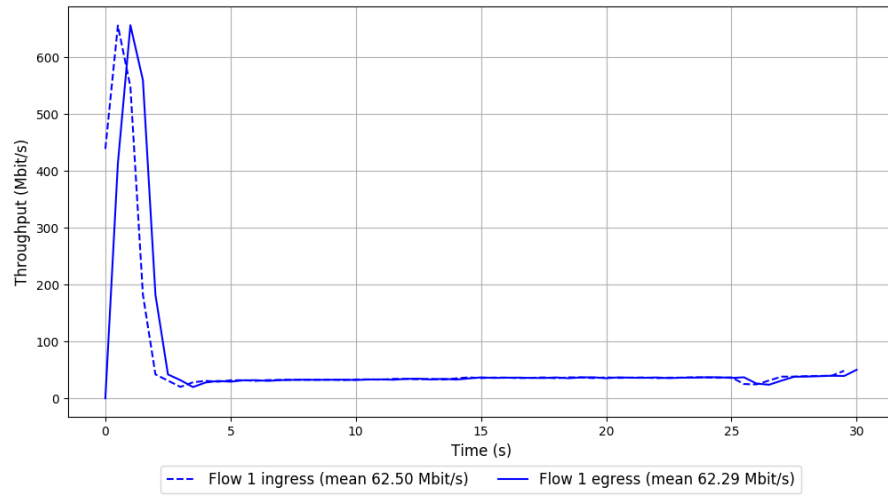
-- Flow 1:

Average throughput: 62.29 Mbit/s

95th percentile per-packet one-way delay: 20.150 ms

Loss rate: 0.32%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-21 22:55:28

End at: 2018-08-21 22:55:58

Local clock offset: 0.254 ms

Remote clock offset: -0.325 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 19.730 ms

Loss rate: 0.08%

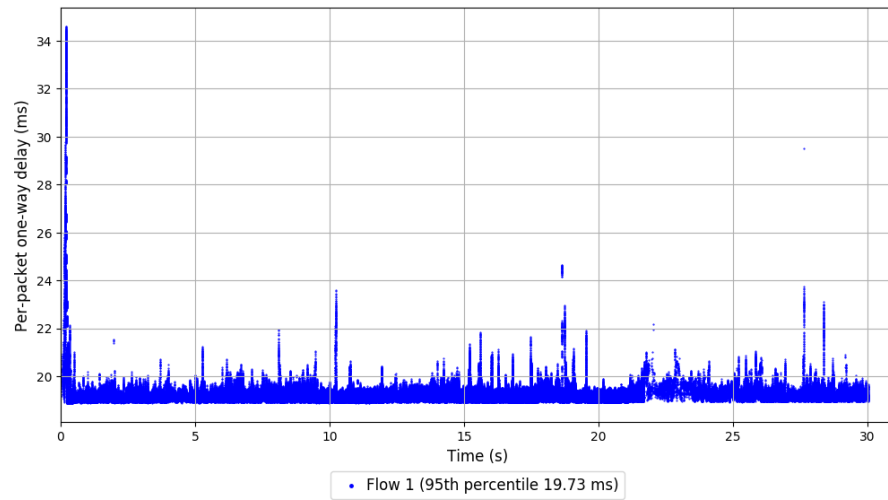
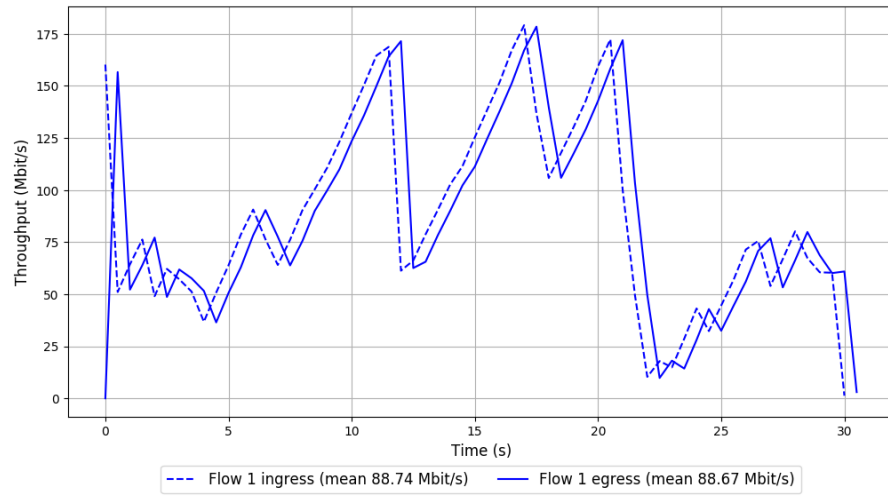
-- Flow 1:

Average throughput: 88.67 Mbit/s

95th percentile per-packet one-way delay: 19.730 ms

Loss rate: 0.08%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-21 18:59:55

End at: 2018-08-21 19:00:25

Local clock offset: -1.981 ms

Remote clock offset: 4.251 ms

Below is generated by plot.py at 2018-08-22 00:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.14 Mbit/s

95th percentile per-packet one-way delay: 50.626 ms

Loss rate: 16.21%

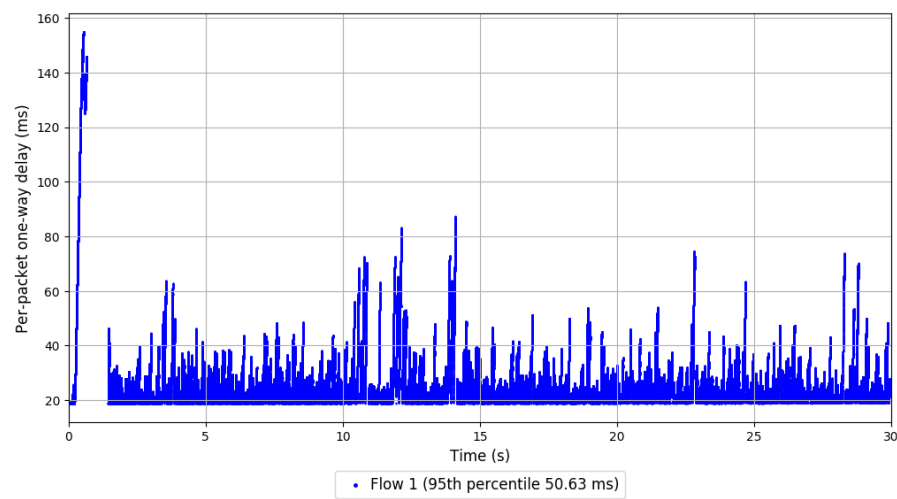
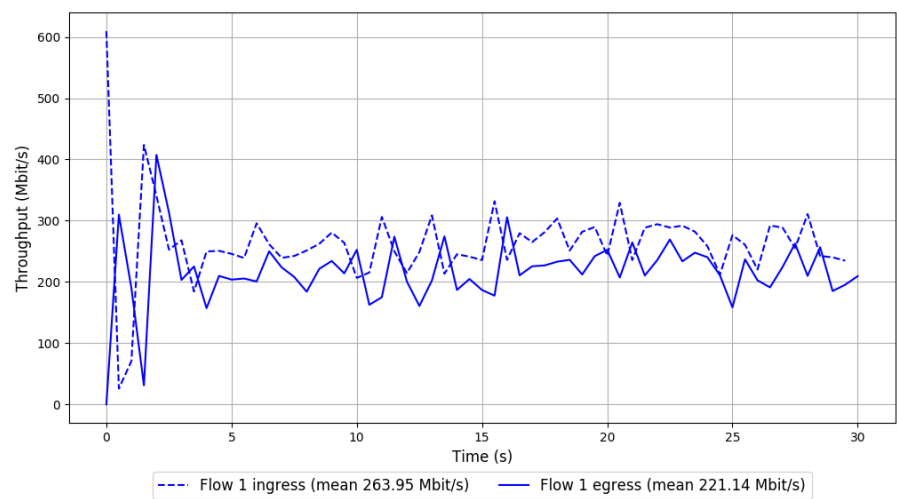
-- Flow 1:

Average throughput: 221.14 Mbit/s

95th percentile per-packet one-way delay: 50.626 ms

Loss rate: 16.21%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-21 19:25:20

End at: 2018-08-21 19:25:50

Local clock offset: 1.168 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-08-22 00:48:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 46.262 ms

Loss rate: 19.68%

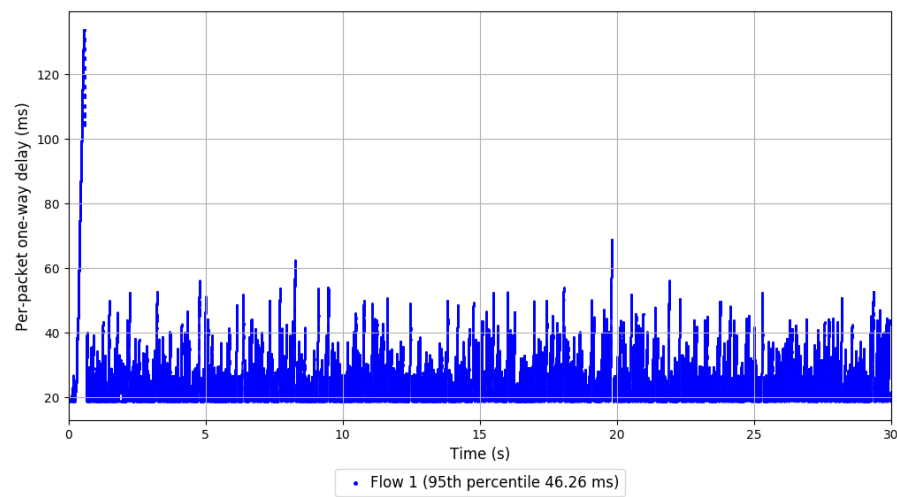
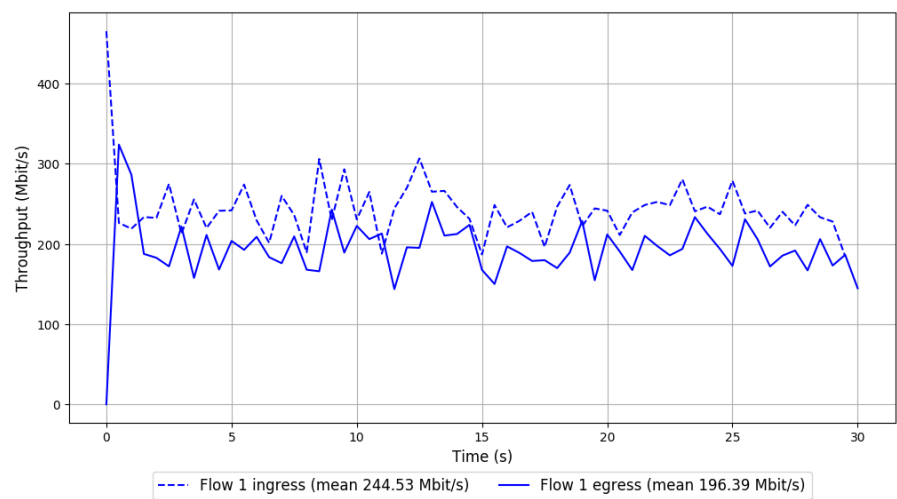
-- Flow 1:

Average throughput: 196.39 Mbit/s

95th percentile per-packet one-way delay: 46.262 ms

Loss rate: 19.68%

Run 2: Report of Verus — Data Link

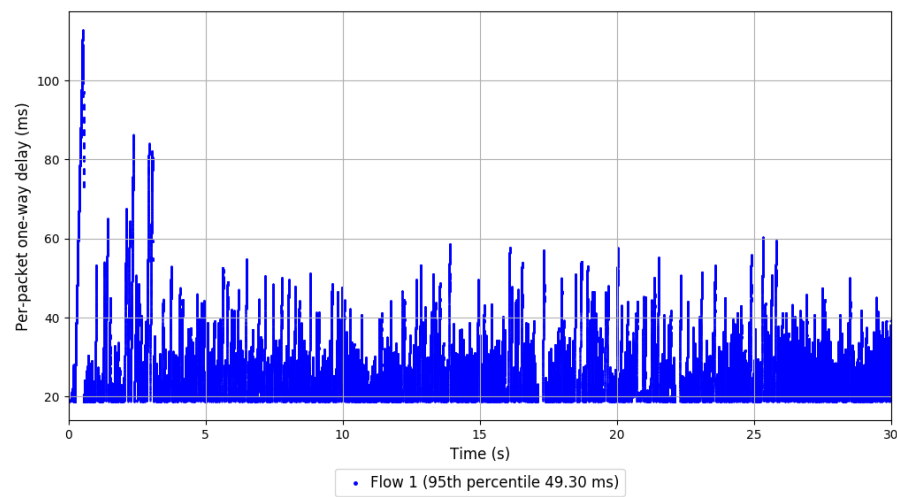
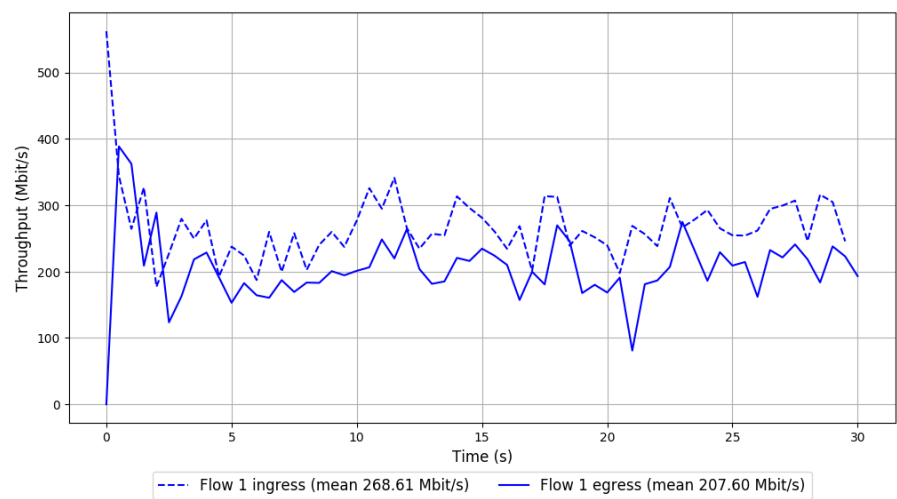


Run 3: Statistics of Verus

Start at: 2018-08-21 19:50:28
End at: 2018-08-21 19:50:58
Local clock offset: 2.18 ms
Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-08-22 00:48:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.60 Mbit/s
95th percentile per-packet one-way delay: 49.304 ms
Loss rate: 22.69%
-- Flow 1:
Average throughput: 207.60 Mbit/s
95th percentile per-packet one-way delay: 49.304 ms
Loss rate: 22.69%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-21 20:15:44

End at: 2018-08-21 20:16:14

Local clock offset: 1.546 ms

Remote clock offset: 1.853 ms

Below is generated by plot.py at 2018-08-22 00:48:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 49.821 ms

Loss rate: 20.91%

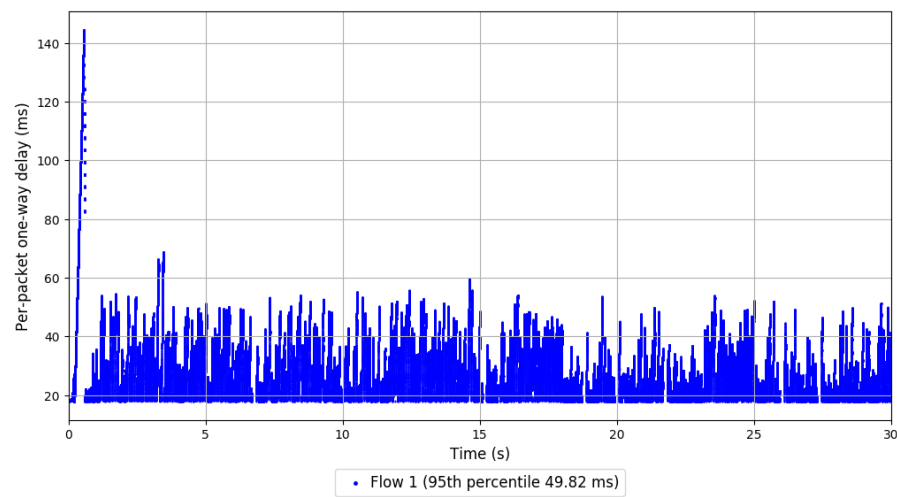
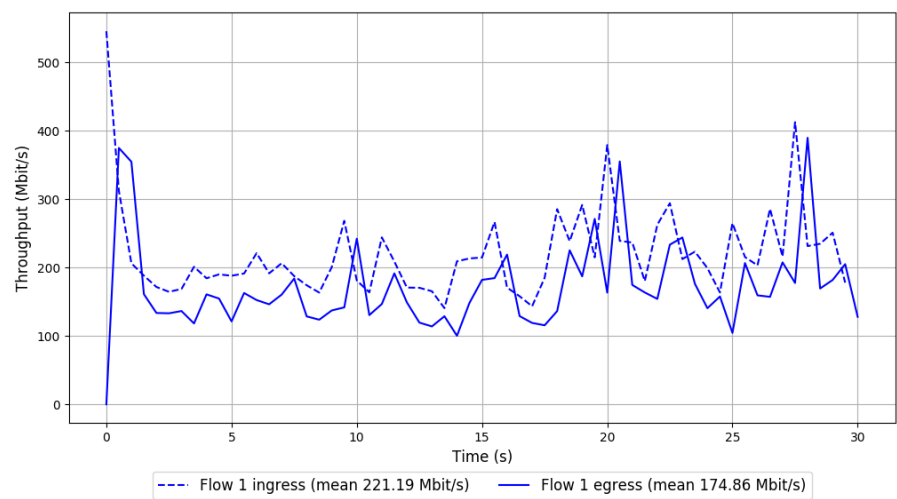
-- Flow 1:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 49.821 ms

Loss rate: 20.91%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-21 20:40:40

End at: 2018-08-21 20:41:10

Local clock offset: 0.827 ms

Remote clock offset: 4.021 ms

Below is generated by plot.py at 2018-08-22 00:48:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 188.41 Mbit/s

95th percentile per-packet one-way delay: 55.138 ms

Loss rate: 23.49%

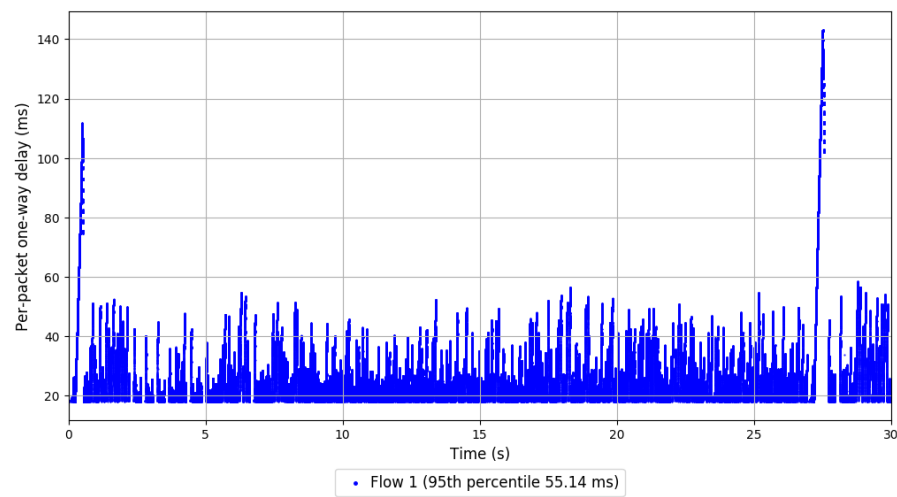
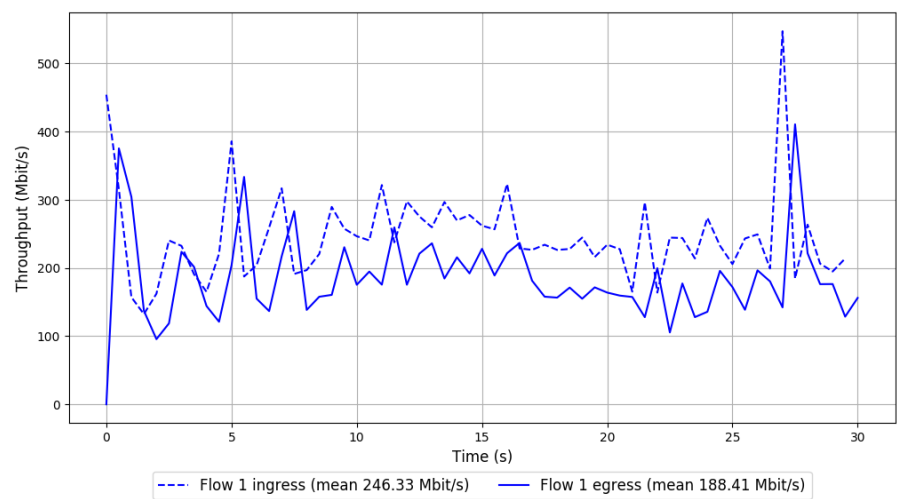
-- Flow 1:

Average throughput: 188.41 Mbit/s

95th percentile per-packet one-way delay: 55.138 ms

Loss rate: 23.49%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-21 21:05:41

End at: 2018-08-21 21:06:11

Local clock offset: 0.69 ms

Remote clock offset: 3.405 ms

Below is generated by plot.py at 2018-08-22 00:49:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 197.99 Mbit/s

95th percentile per-packet one-way delay: 49.925 ms

Loss rate: 19.01%

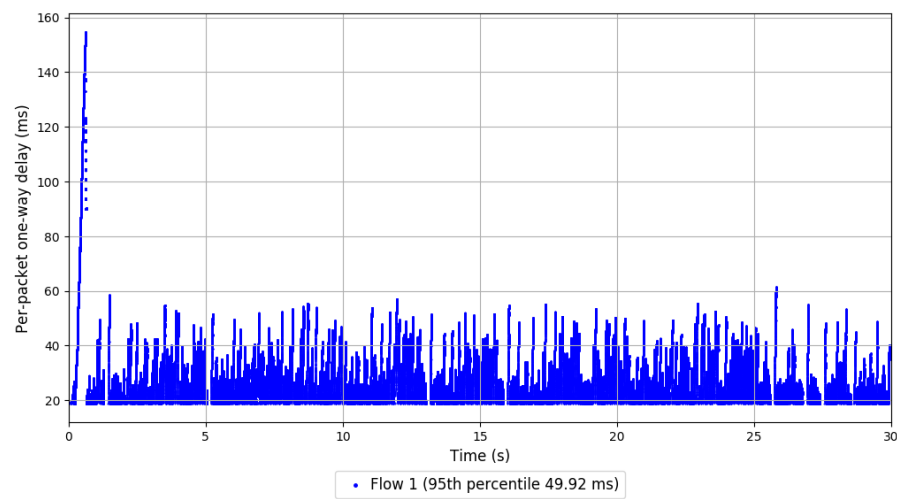
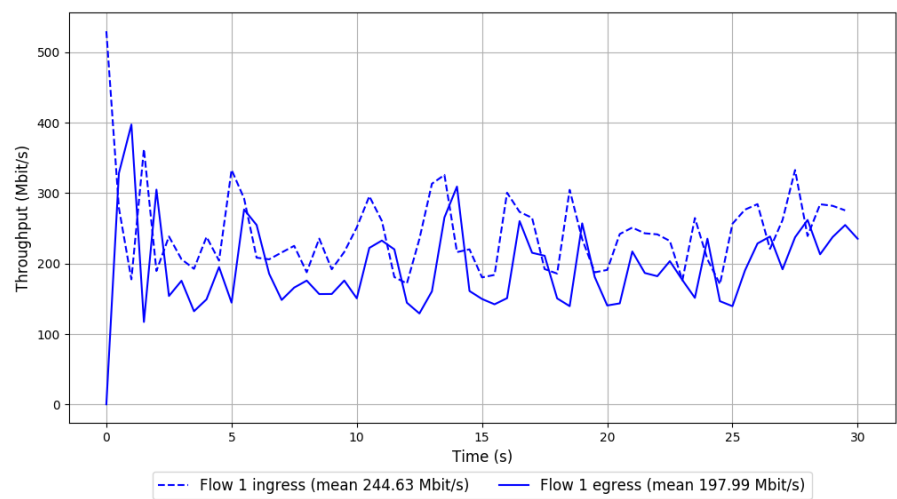
-- Flow 1:

Average throughput: 197.99 Mbit/s

95th percentile per-packet one-way delay: 49.925 ms

Loss rate: 19.01%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-21 21:30:42

End at: 2018-08-21 21:31:12

Local clock offset: 1.449 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2018-08-22 00:50:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 194.99 Mbit/s

95th percentile per-packet one-way delay: 48.488 ms

Loss rate: 18.61%

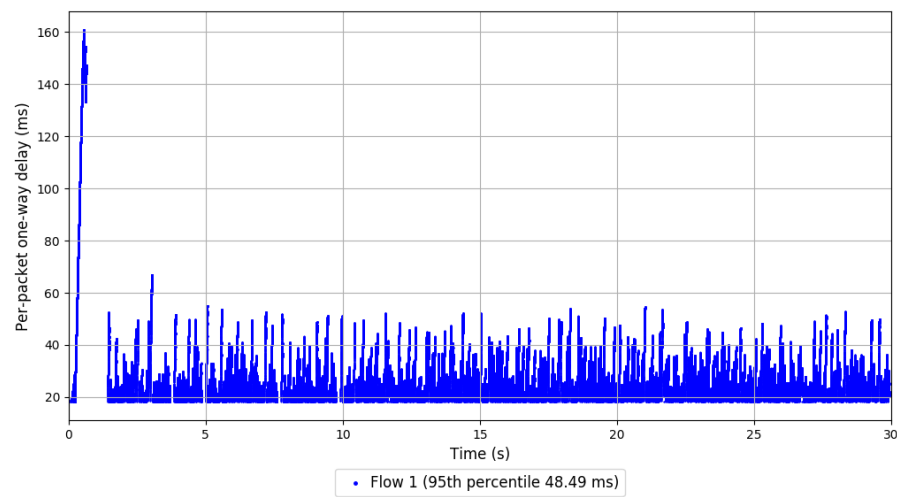
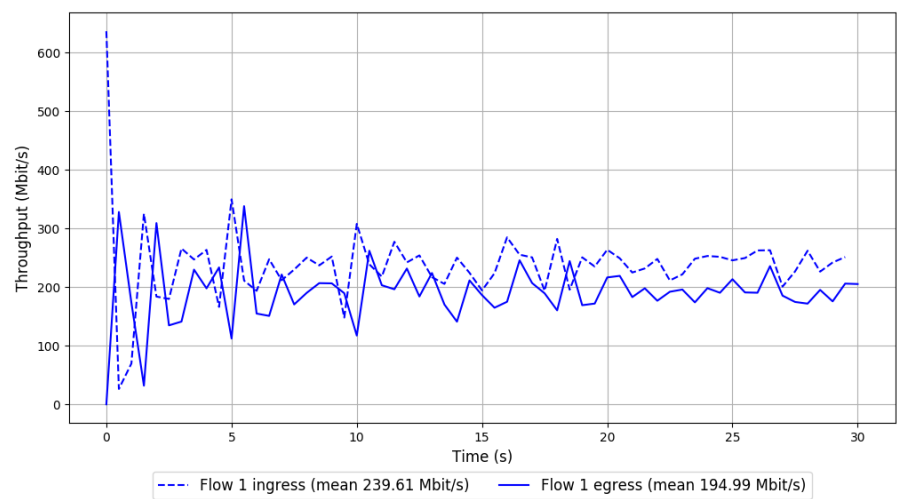
-- Flow 1:

Average throughput: 194.99 Mbit/s

95th percentile per-packet one-way delay: 48.488 ms

Loss rate: 18.61%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-21 21:56:02

End at: 2018-08-21 21:56:32

Local clock offset: 0.128 ms

Remote clock offset: 1.143 ms

Below is generated by plot.py at 2018-08-22 00:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.74 Mbit/s

95th percentile per-packet one-way delay: 57.766 ms

Loss rate: 22.10%

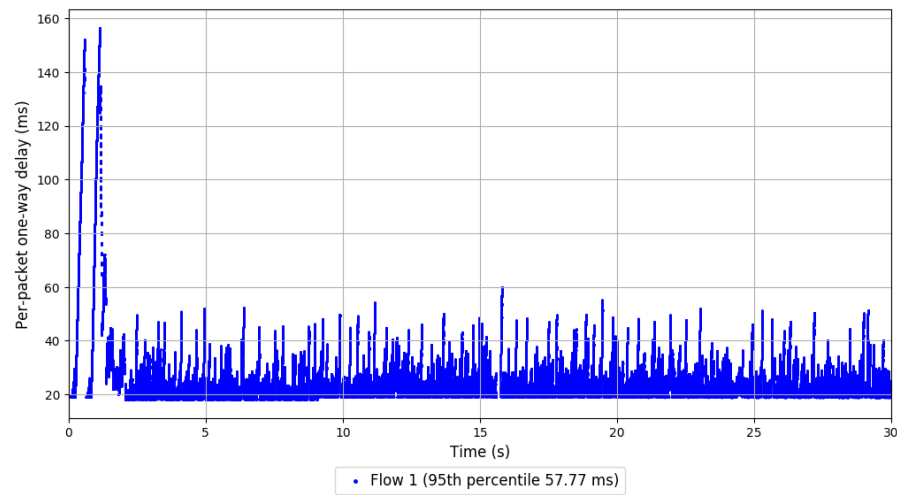
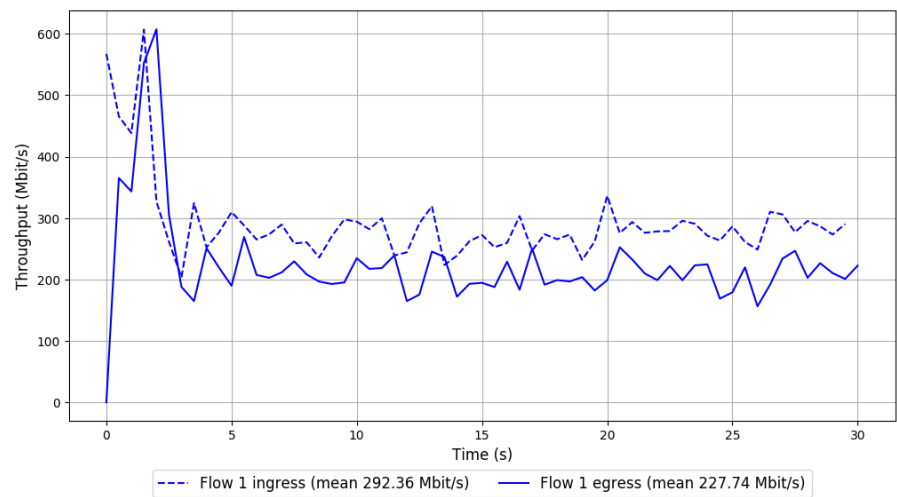
-- Flow 1:

Average throughput: 227.74 Mbit/s

95th percentile per-packet one-way delay: 57.766 ms

Loss rate: 22.10%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-08-21 22:21:20

End at: 2018-08-21 22:21:50

Local clock offset: -2.283 ms

Remote clock offset: 4.417 ms

Below is generated by plot.py at 2018-08-22 00:50:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.10 Mbit/s

95th percentile per-packet one-way delay: 46.576 ms

Loss rate: 19.00%

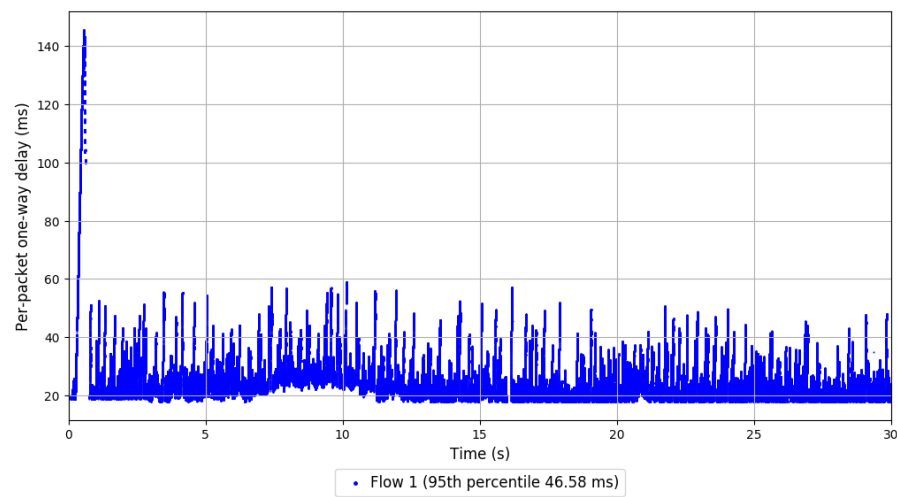
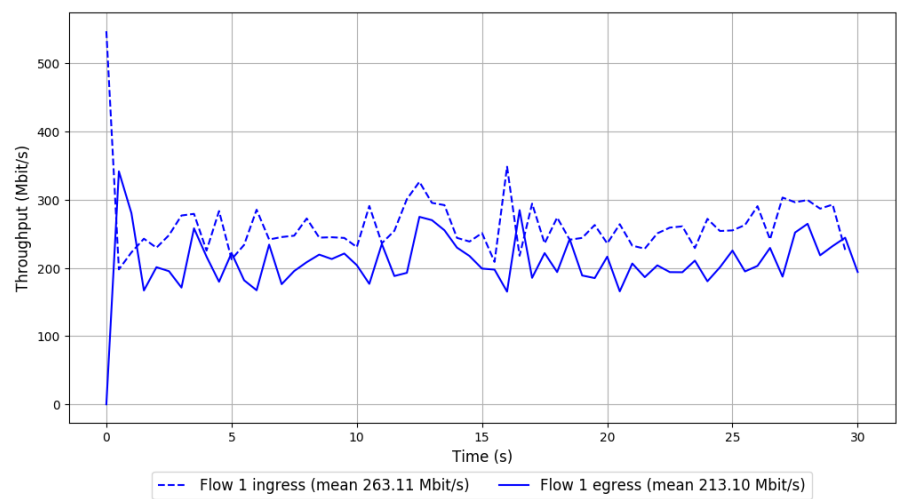
-- Flow 1:

Average throughput: 213.10 Mbit/s

95th percentile per-packet one-way delay: 46.576 ms

Loss rate: 19.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-08-21 22:46:37

End at: 2018-08-21 22:47:07

Local clock offset: -0.689 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-08-22 00:51:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.56 Mbit/s

95th percentile per-packet one-way delay: 57.991 ms

Loss rate: 27.06%

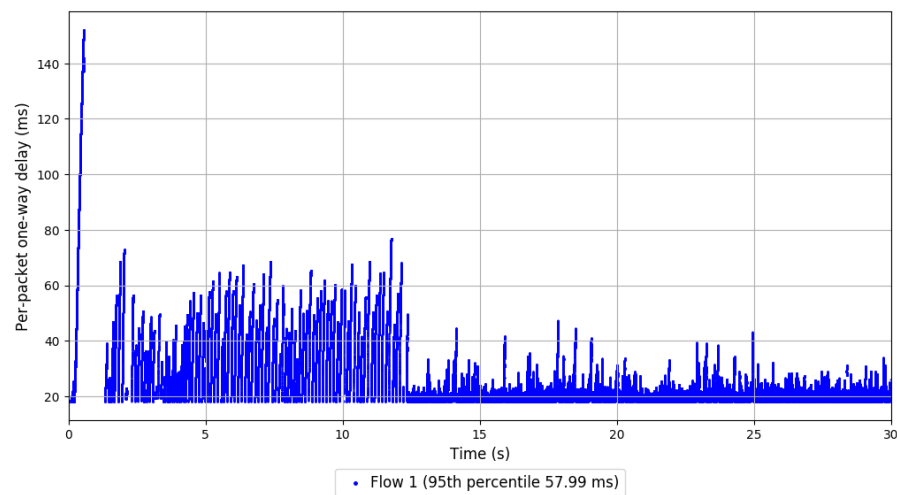
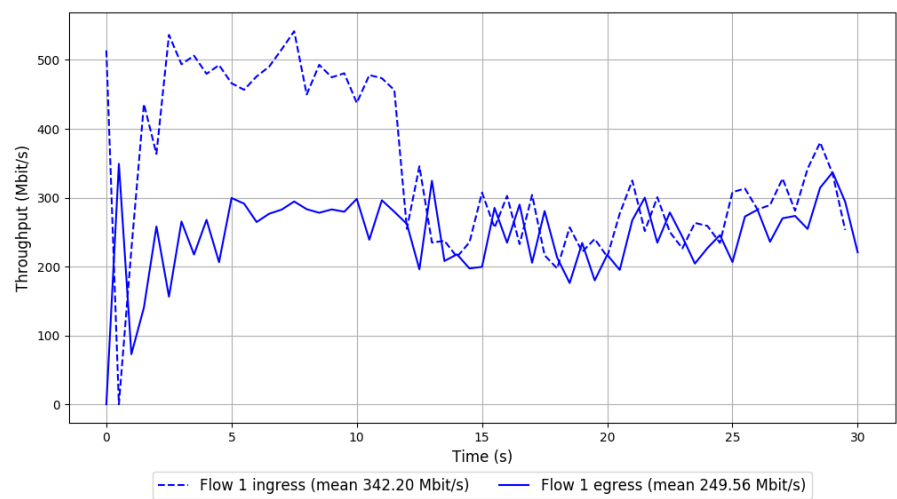
-- Flow 1:

Average throughput: 249.56 Mbit/s

95th percentile per-packet one-way delay: 57.991 ms

Loss rate: 27.06%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-21 19:15:49

End at: 2018-08-21 19:16:19

Local clock offset: -0.025 ms

Remote clock offset: 0.507 ms

Below is generated by plot.py at 2018-08-22 00:53:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 421.51 Mbit/s

95th percentile per-packet one-way delay: 39.175 ms

Loss rate: 0.25%

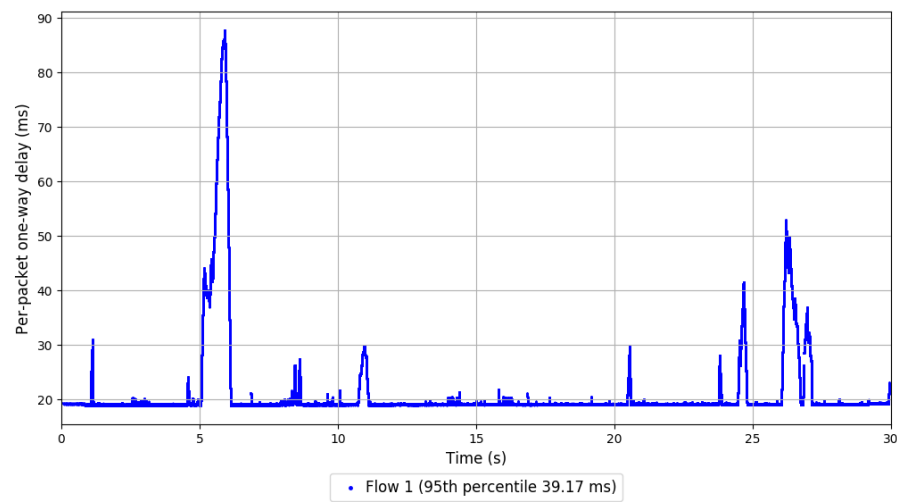
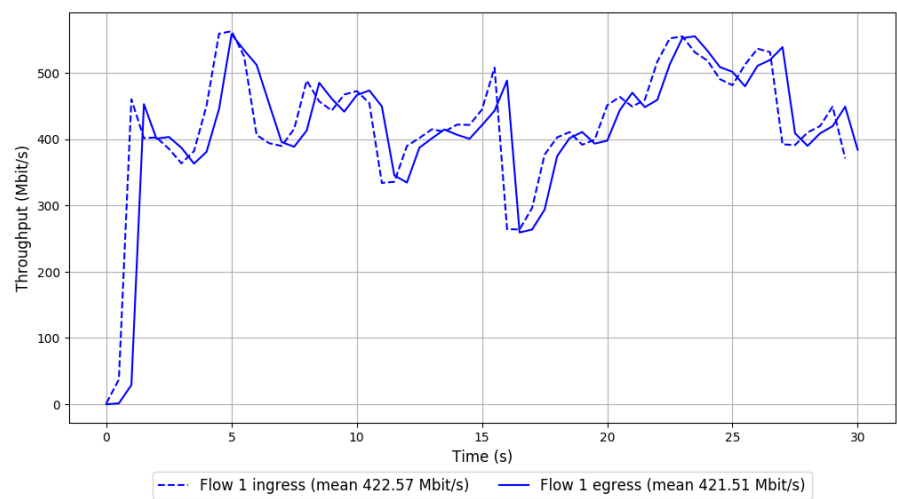
-- Flow 1:

Average throughput: 421.51 Mbit/s

95th percentile per-packet one-way delay: 39.175 ms

Loss rate: 0.25%

Run 1: Report of PCC-Vivace — Data Link

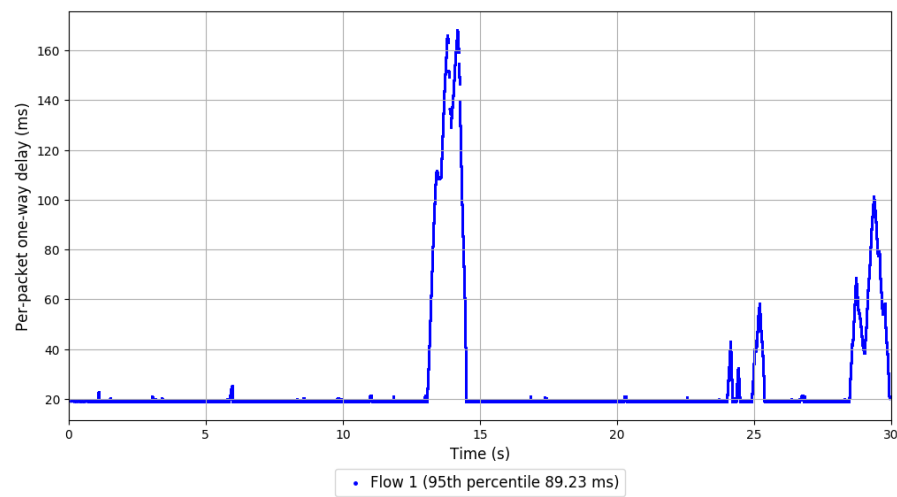
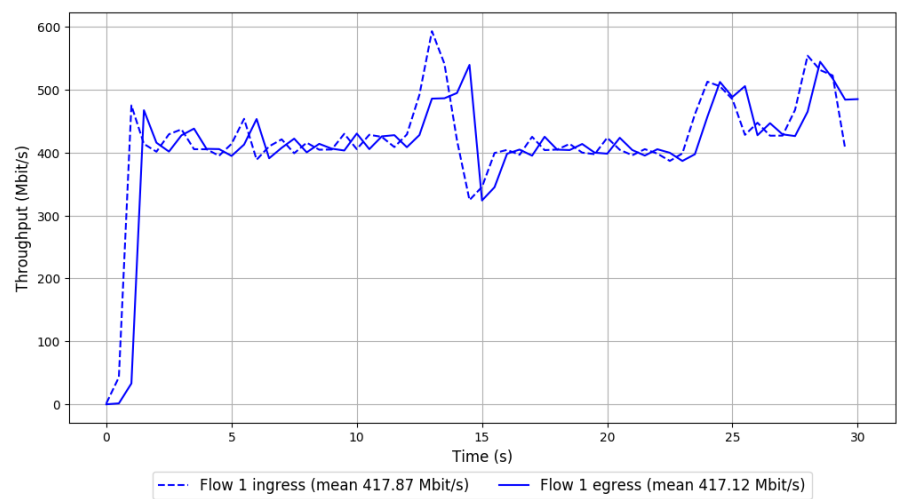


Run 2: Statistics of PCC-Vivace

Start at: 2018-08-21 19:41:09
End at: 2018-08-21 19:41:39
Local clock offset: 2.063 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-08-22 00:53:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 417.12 Mbit/s
95th percentile per-packet one-way delay: 89.228 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 417.12 Mbit/s
95th percentile per-packet one-way delay: 89.228 ms
Loss rate: 0.18%

Run 2: Report of PCC-Vivace — Data Link

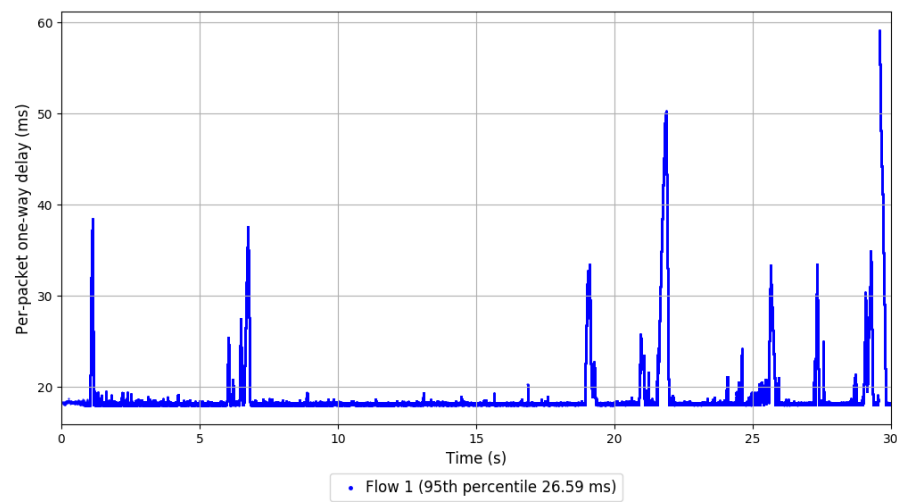
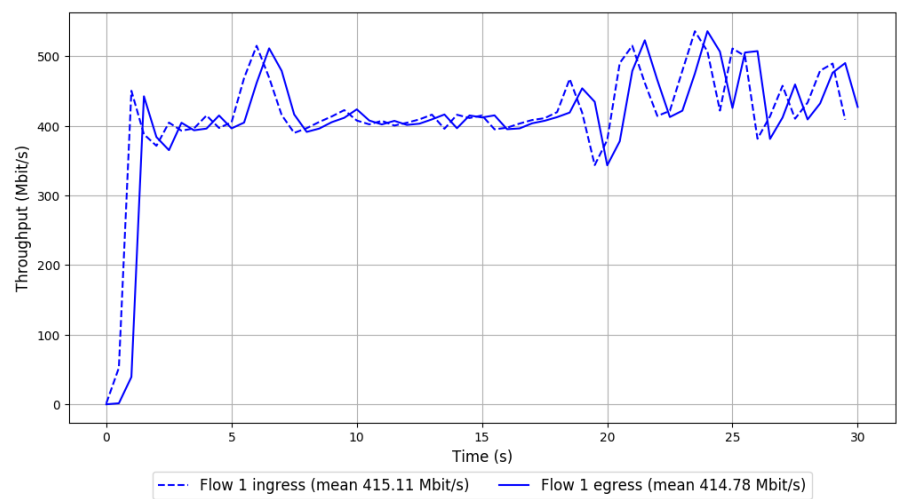


Run 3: Statistics of PCC-Vivace

Start at: 2018-08-21 20:06:17
End at: 2018-08-21 20:06:47
Local clock offset: 2.917 ms
Remote clock offset: -0.155 ms

Below is generated by plot.py at 2018-08-22 00:53:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 414.78 Mbit/s
95th percentile per-packet one-way delay: 26.586 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 414.78 Mbit/s
95th percentile per-packet one-way delay: 26.586 ms
Loss rate: 0.08%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-21 20:31:34

End at: 2018-08-21 20:32:04

Local clock offset: 1.082 ms

Remote clock offset: 3.52 ms

Below is generated by plot.py at 2018-08-22 00:54:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 415.04 Mbit/s

95th percentile per-packet one-way delay: 25.565 ms

Loss rate: 0.29%

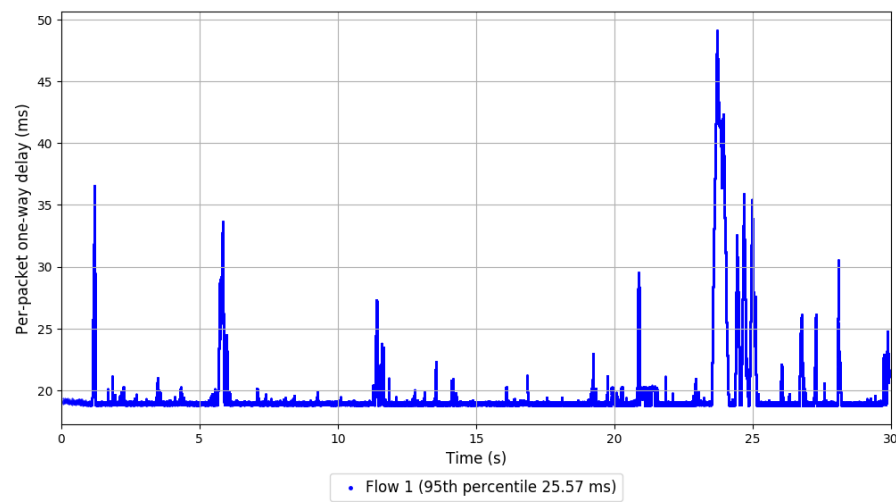
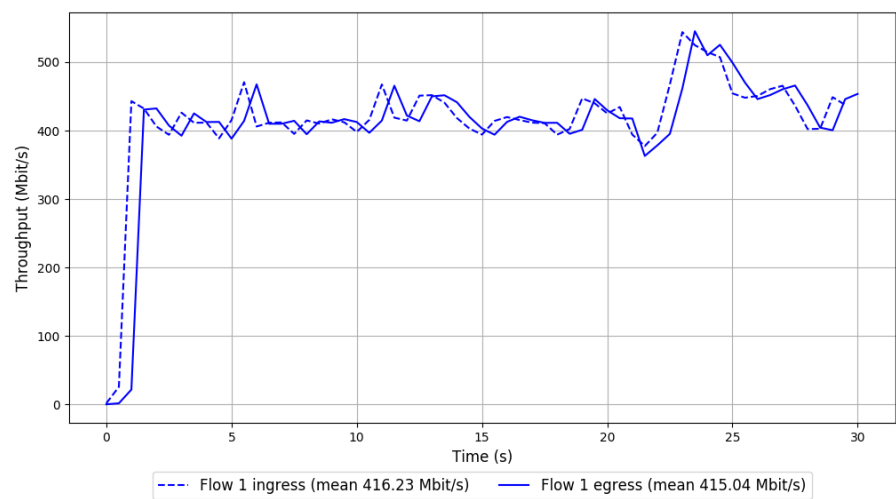
-- Flow 1:

Average throughput: 415.04 Mbit/s

95th percentile per-packet one-way delay: 25.565 ms

Loss rate: 0.29%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-21 20:56:23

End at: 2018-08-21 20:56:53

Local clock offset: 0.647 ms

Remote clock offset: 3.321 ms

Below is generated by plot.py at 2018-08-22 00:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.65 Mbit/s

95th percentile per-packet one-way delay: 18.570 ms

Loss rate: 0.17%

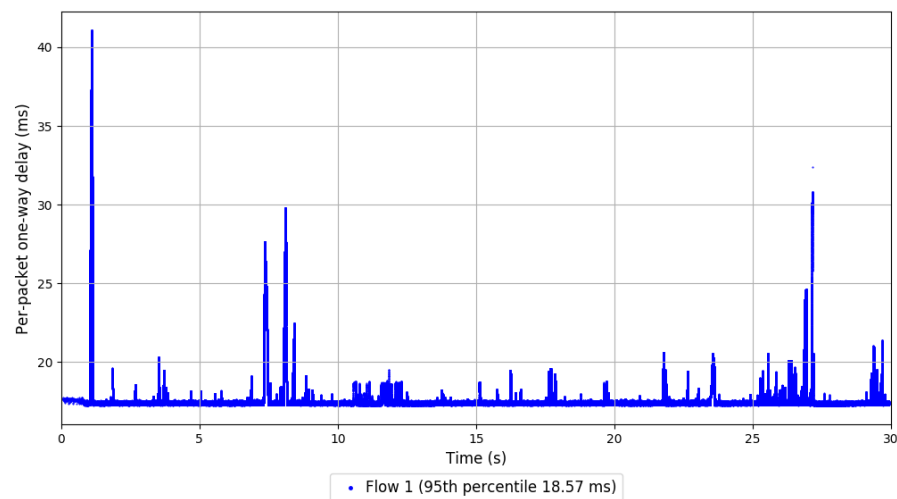
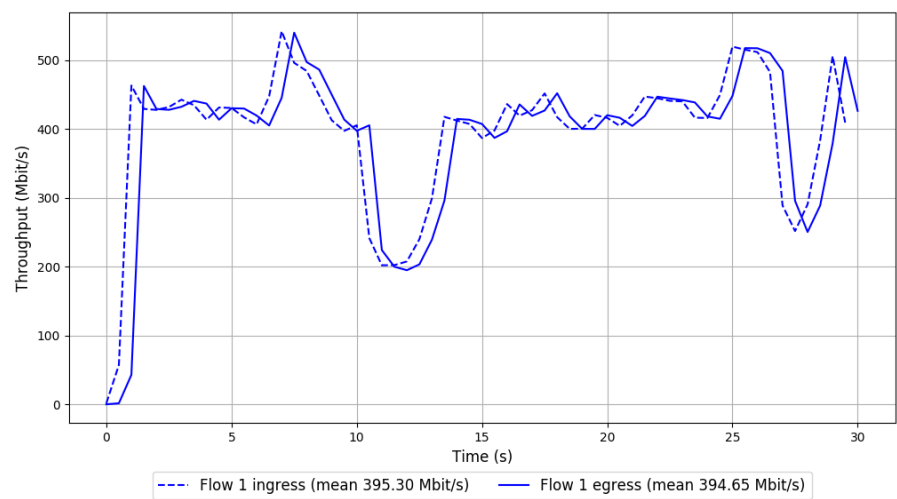
-- Flow 1:

Average throughput: 394.65 Mbit/s

95th percentile per-packet one-way delay: 18.570 ms

Loss rate: 0.17%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-21 21:21:33

End at: 2018-08-21 21:22:03

Local clock offset: 1.322 ms

Remote clock offset: 1.816 ms

Below is generated by plot.py at 2018-08-22 00:54:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 229.50 Mbit/s

95th percentile per-packet one-way delay: 19.572 ms

Loss rate: 0.00%

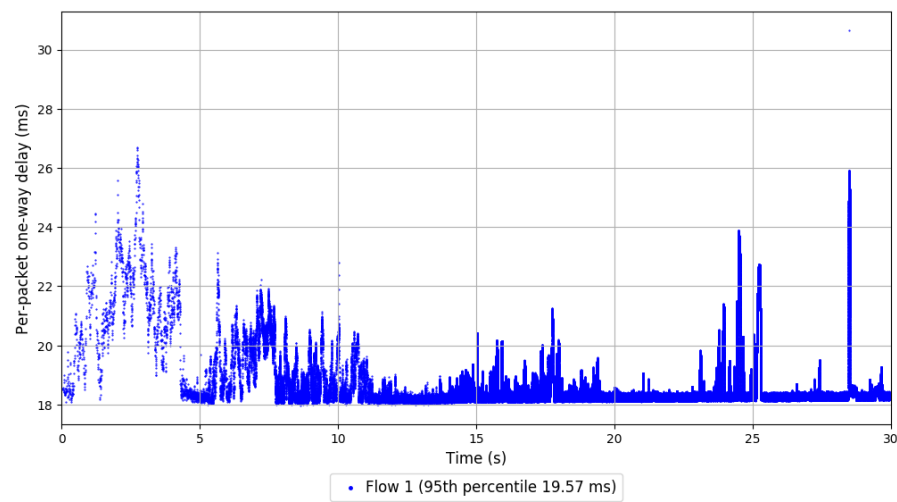
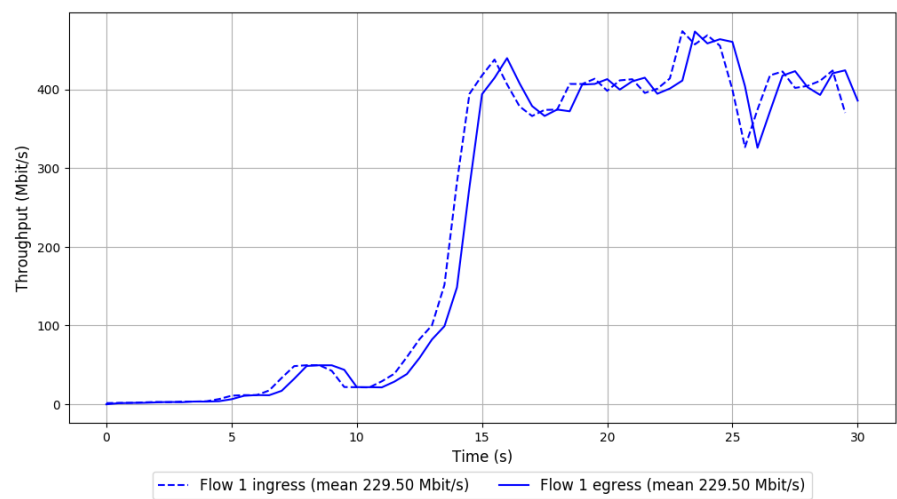
-- Flow 1:

Average throughput: 229.50 Mbit/s

95th percentile per-packet one-way delay: 19.572 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

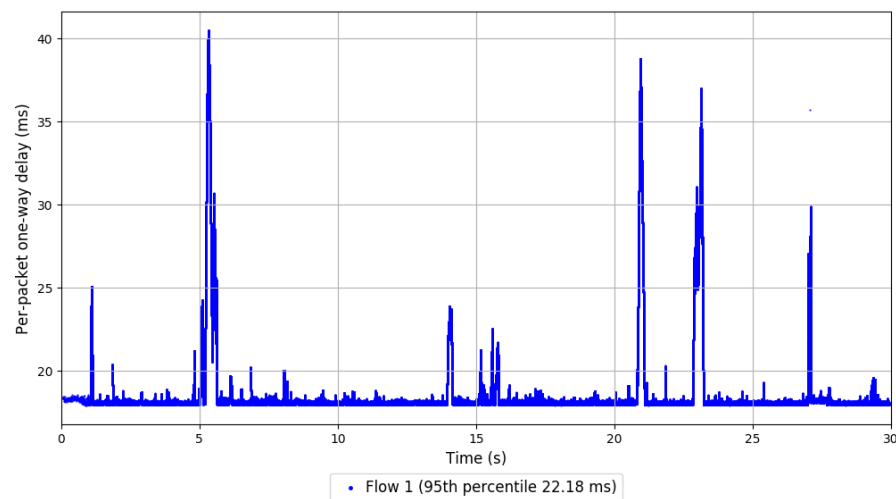
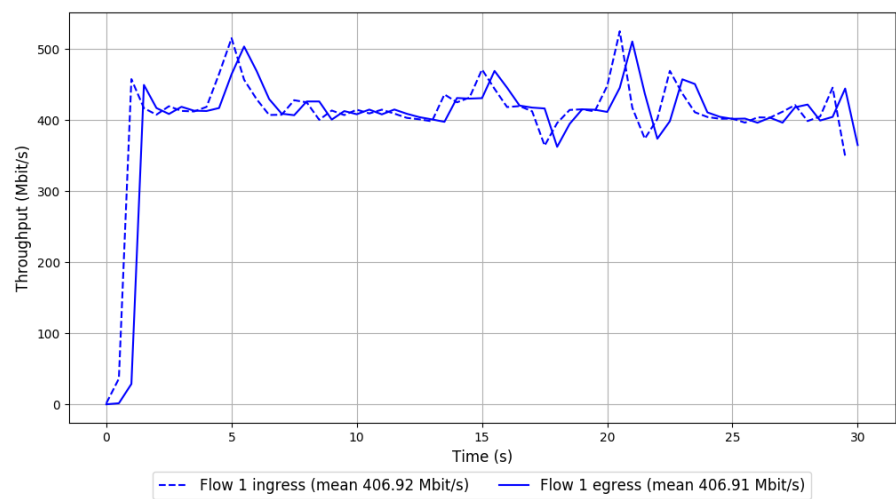


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-21 21:46:43
End at: 2018-08-21 21:47:13
Local clock offset: 0.597 ms
Remote clock offset: -0.811 ms

Below is generated by plot.py at 2018-08-22 00:55:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 406.91 Mbit/s
95th percentile per-packet one-way delay: 22.182 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 406.91 Mbit/s
95th percentile per-packet one-way delay: 22.182 ms
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-21 22:11:52

End at: 2018-08-21 22:12:22

Local clock offset: -1.034 ms

Remote clock offset: 3.615 ms

Below is generated by plot.py at 2018-08-22 00:55:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.37 Mbit/s

95th percentile per-packet one-way delay: 59.352 ms

Loss rate: 0.79%

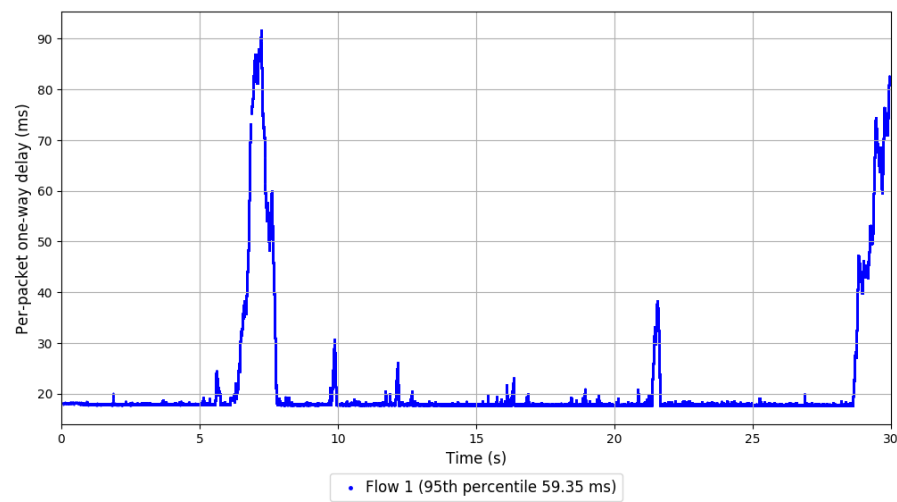
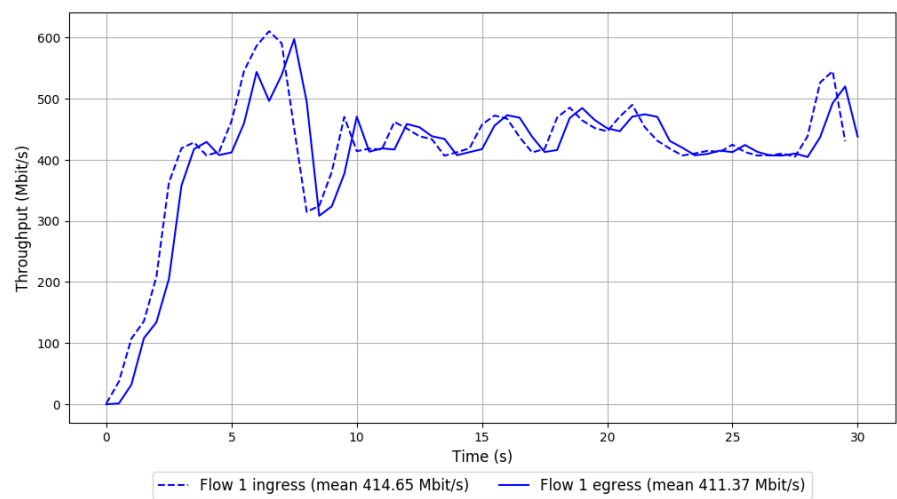
-- Flow 1:

Average throughput: 411.37 Mbit/s

95th percentile per-packet one-way delay: 59.352 ms

Loss rate: 0.79%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-21 22:37:17

End at: 2018-08-21 22:37:47

Local clock offset: -3.278 ms

Remote clock offset: 0.869 ms

Below is generated by plot.py at 2018-08-22 00:55:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 406.31 Mbit/s

95th percentile per-packet one-way delay: 18.947 ms

Loss rate: 0.33%

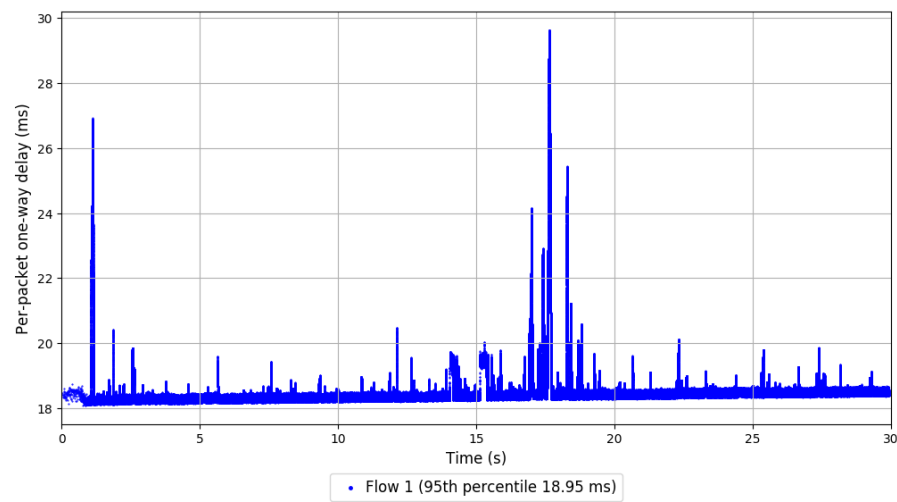
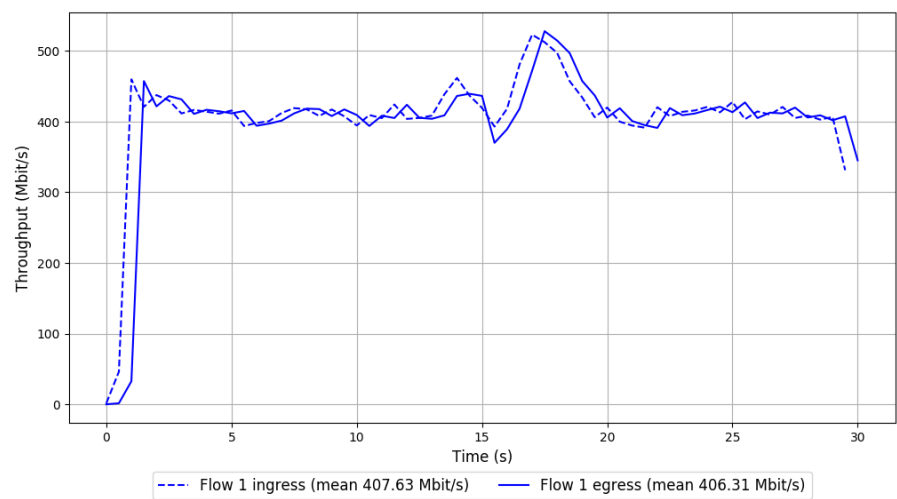
-- Flow 1:

Average throughput: 406.31 Mbit/s

95th percentile per-packet one-way delay: 18.947 ms

Loss rate: 0.33%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-21 23:02:26

End at: 2018-08-21 23:02:56

Local clock offset: 0.587 ms

Remote clock offset: 0.771 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 390.93 Mbit/s

95th percentile per-packet one-way delay: 17.766 ms

Loss rate: 0.03%

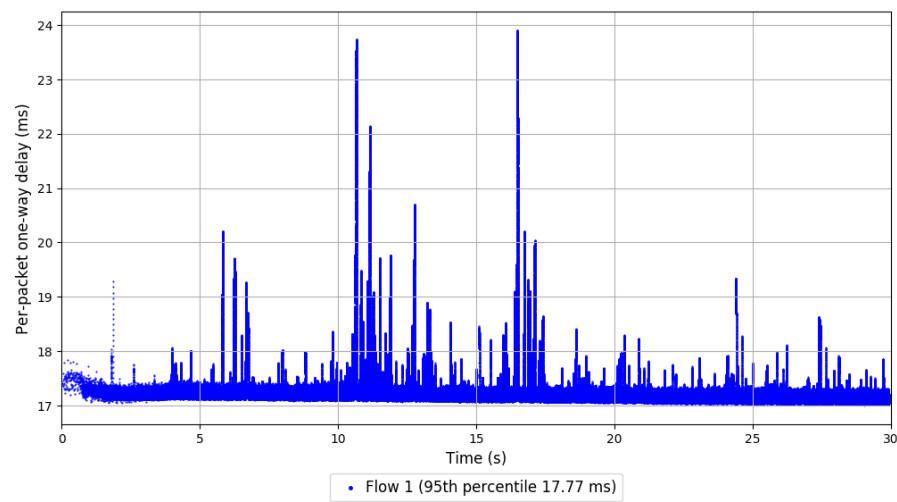
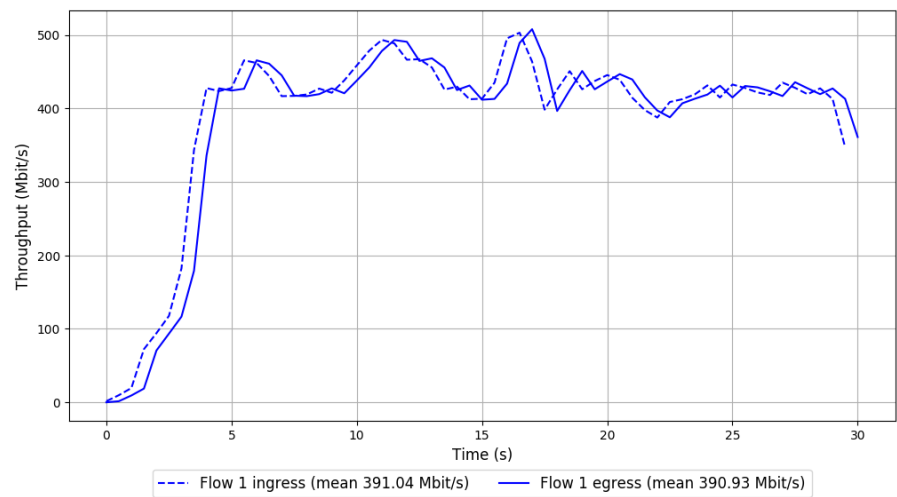
-- Flow 1:

Average throughput: 390.93 Mbit/s

95th percentile per-packet one-way delay: 17.766 ms

Loss rate: 0.03%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-08-21 19:11:33

End at: 2018-08-21 19:12:03

Local clock offset: -0.936 ms

Remote clock offset: 0.951 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 19.270 ms

Loss rate: 0.00%

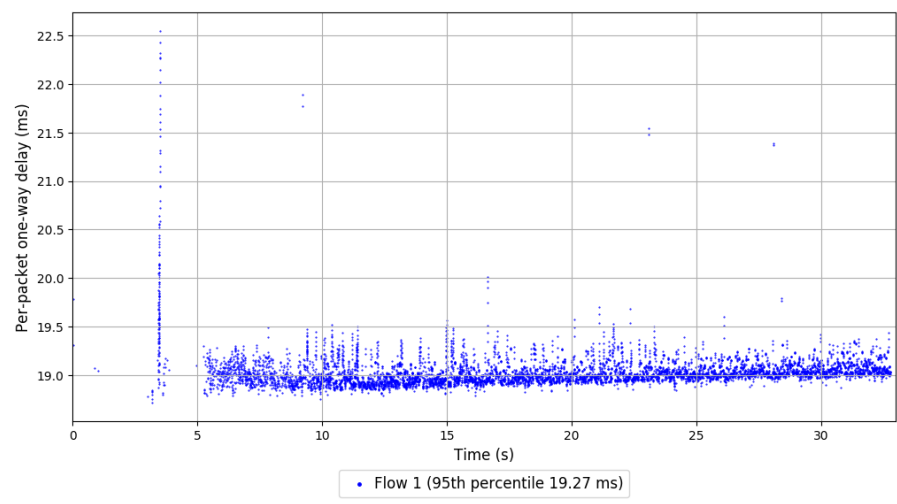
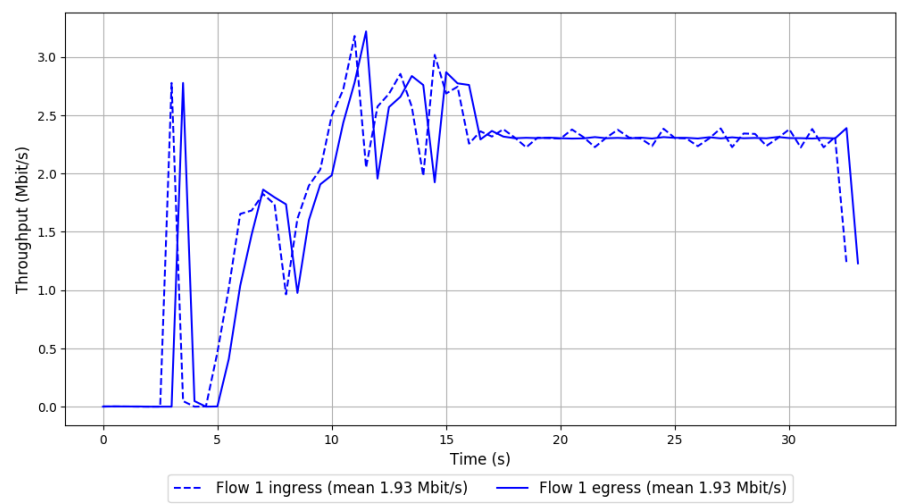
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 19.270 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

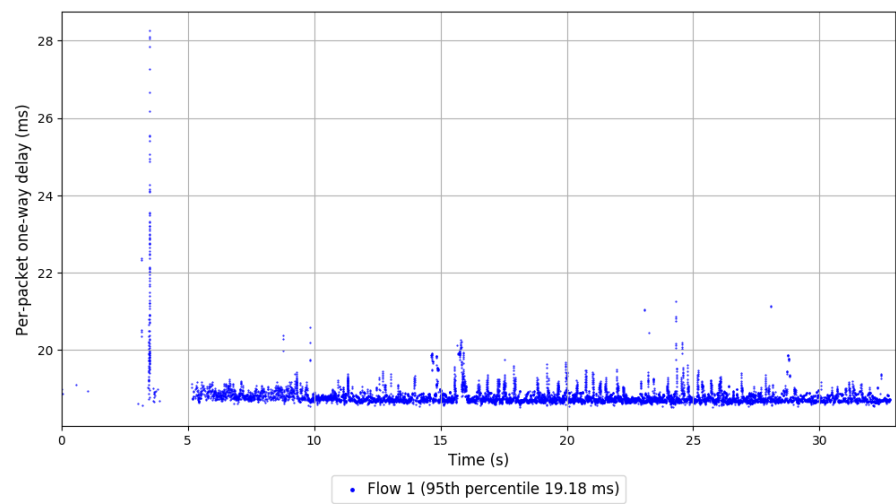
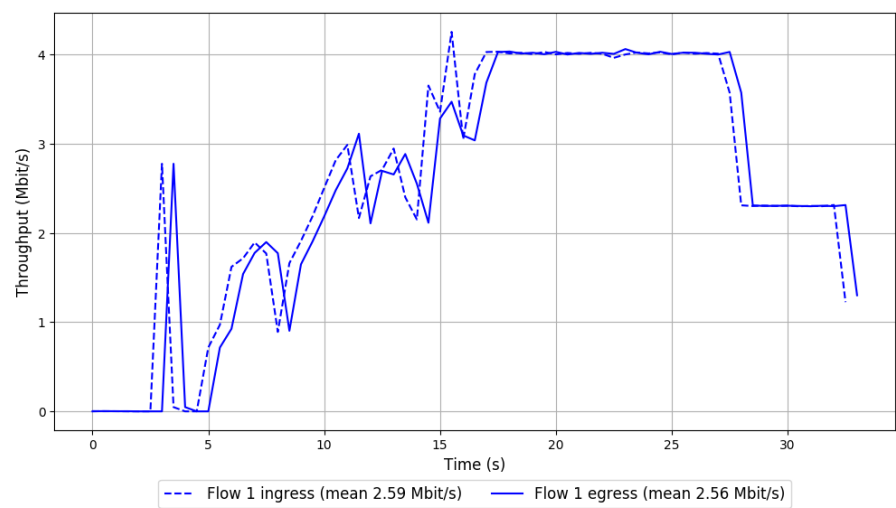


Run 2: Statistics of WebRTC media

Start at: 2018-08-21 19:36:53
End at: 2018-08-21 19:37:23
Local clock offset: 2.171 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-08-22 00:56:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 19.182 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 19.182 ms
Loss rate: 0.82%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-21 20:02:03

End at: 2018-08-21 20:02:33

Local clock offset: 2.681 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 18.516 ms

Loss rate: 0.00%

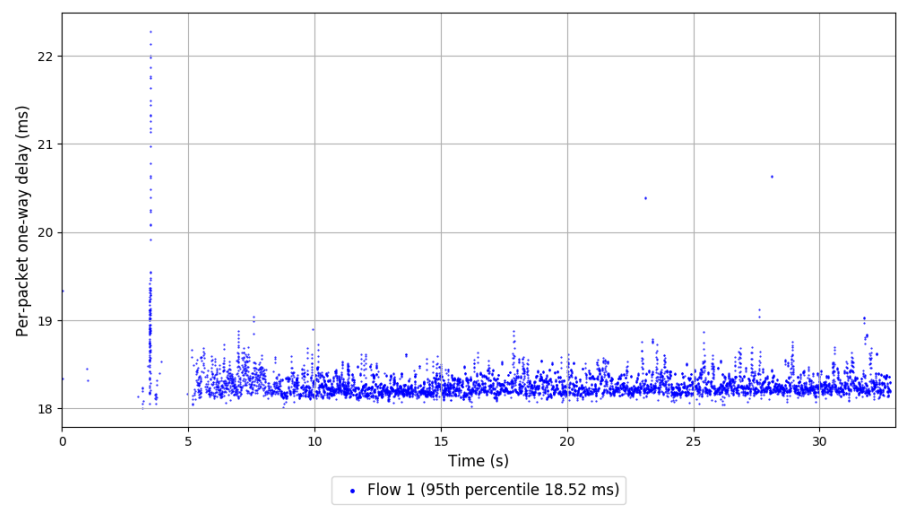
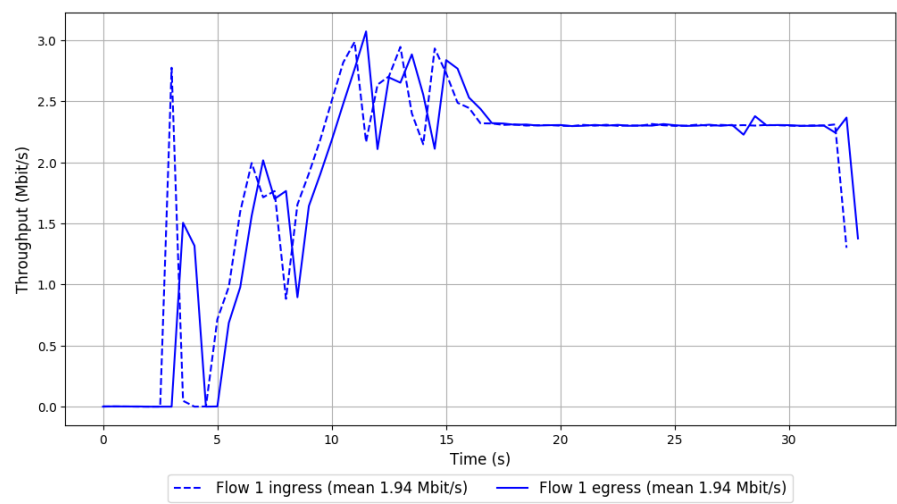
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 18.516 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-08-21 20:27:16

End at: 2018-08-21 20:27:46

Local clock offset: 1.144 ms

Remote clock offset: 3.291 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 17.642 ms

Loss rate: 0.20%

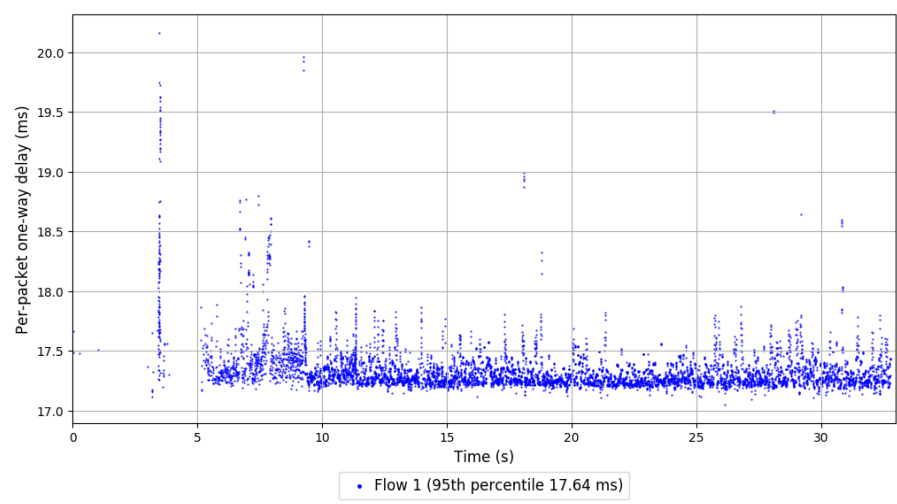
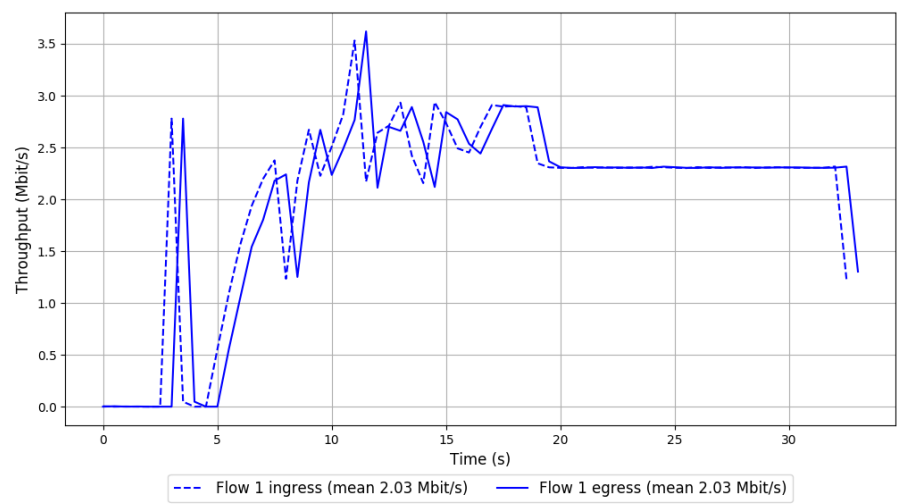
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 17.642 ms

Loss rate: 0.20%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-21 20:52:07

End at: 2018-08-21 20:52:37

Local clock offset: 0.638 ms

Remote clock offset: 3.426 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 19.324 ms

Loss rate: 0.00%

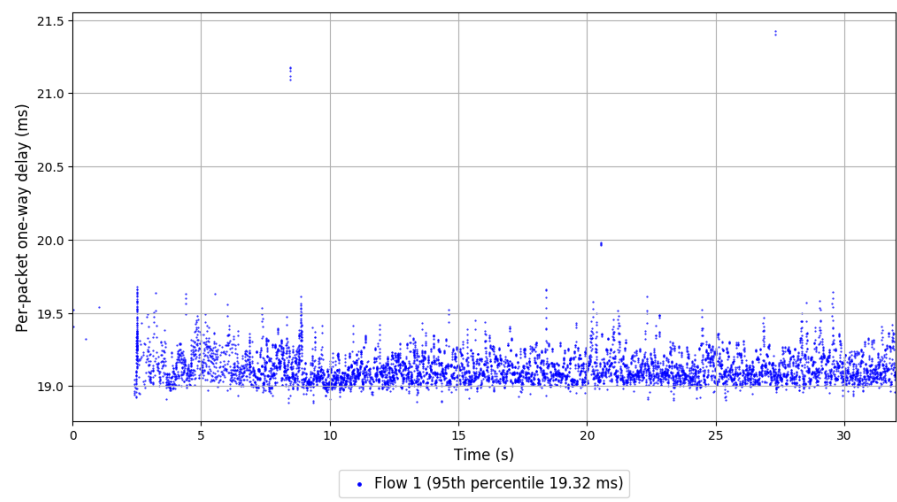
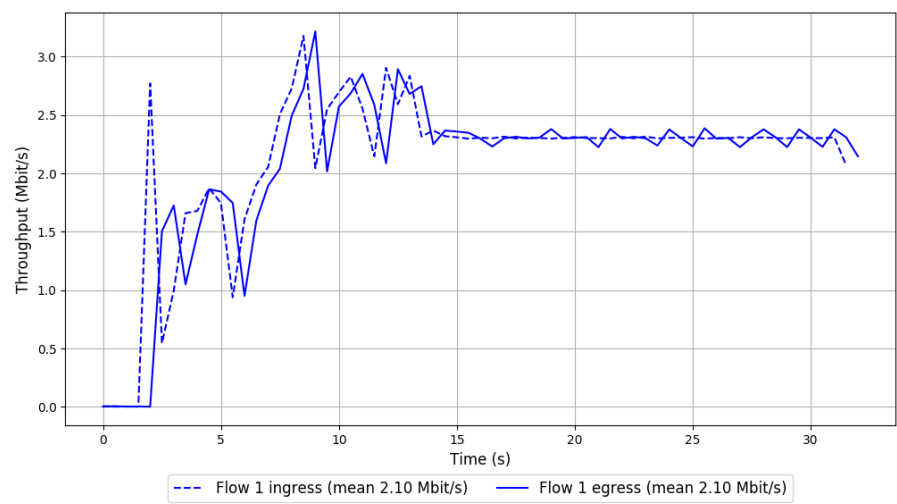
-- Flow 1:

Average throughput: 2.10 Mbit/s

95th percentile per-packet one-way delay: 19.324 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-21 21:17:18

End at: 2018-08-21 21:17:48

Local clock offset: 1.112 ms

Remote clock offset: 3.337 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 19.535 ms

Loss rate: 0.18%

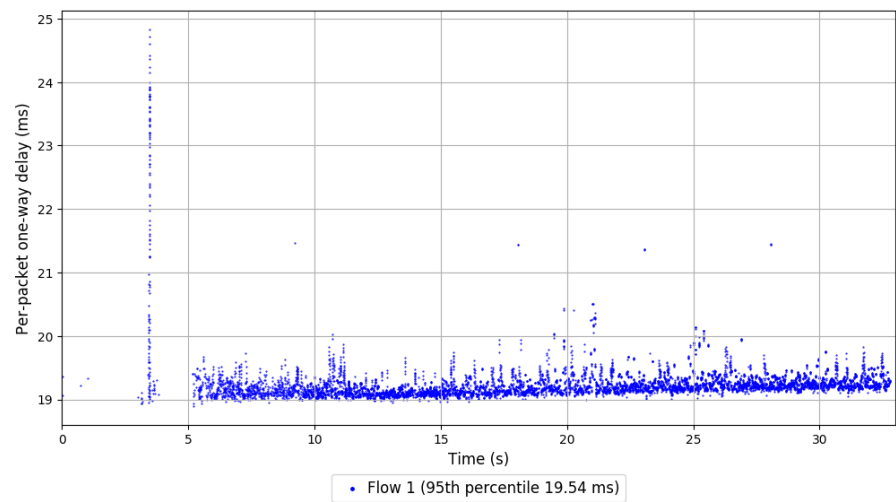
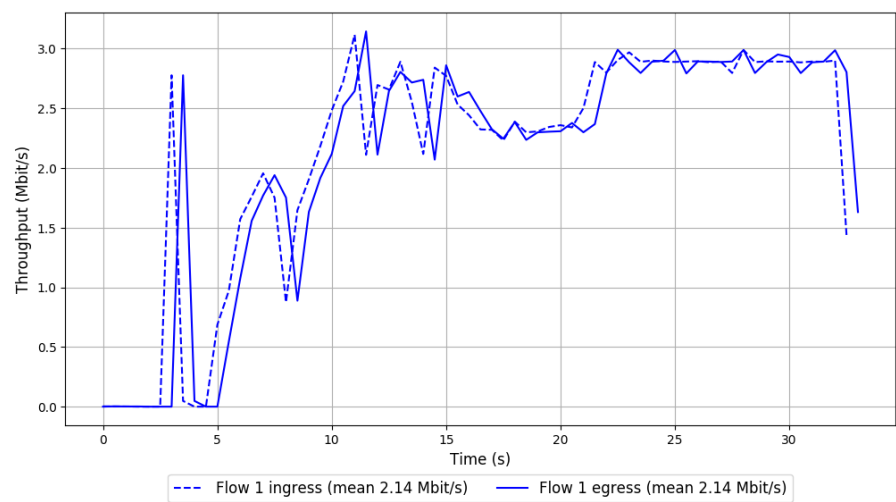
-- Flow 1:

Average throughput: 2.14 Mbit/s

95th percentile per-packet one-way delay: 19.535 ms

Loss rate: 0.18%

Run 6: Report of WebRTC media — Data Link

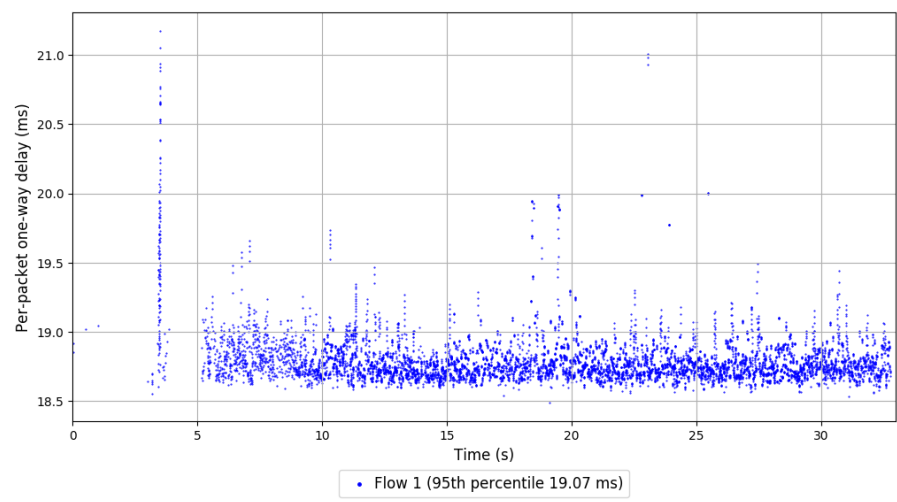
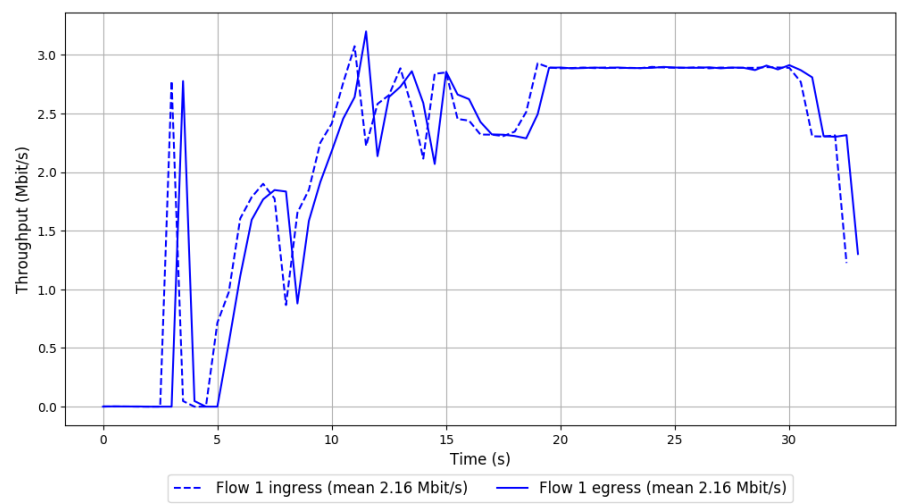


Run 7: Statistics of WebRTC media

Start at: 2018-08-21 21:42:27
End at: 2018-08-21 21:42:57
Local clock offset: 0.962 ms
Remote clock offset: -0.633 ms

Below is generated by plot.py at 2018-08-22 00:56:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 19.067 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 2.16 Mbit/s
95th percentile per-packet one-way delay: 19.067 ms
Loss rate: 0.07%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-21 22:07:37

End at: 2018-08-21 22:08:07

Local clock offset: -0.036 ms

Remote clock offset: 3.176 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 18.802 ms

Loss rate: 0.00%

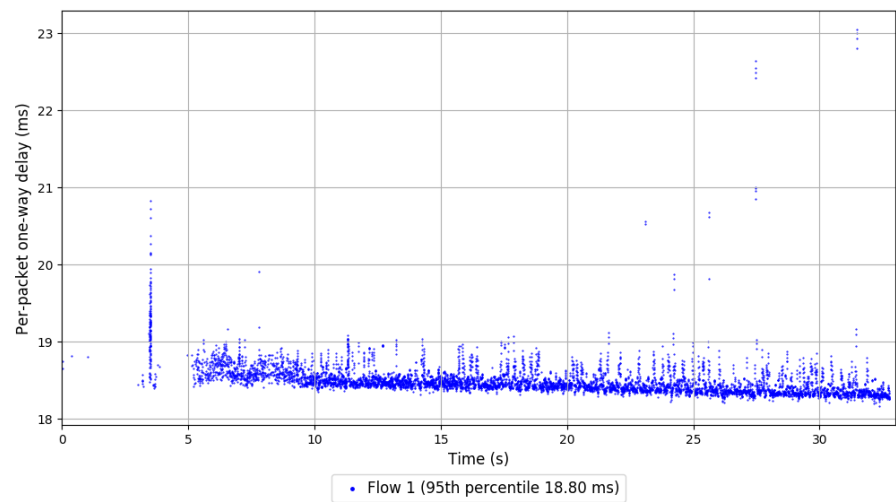
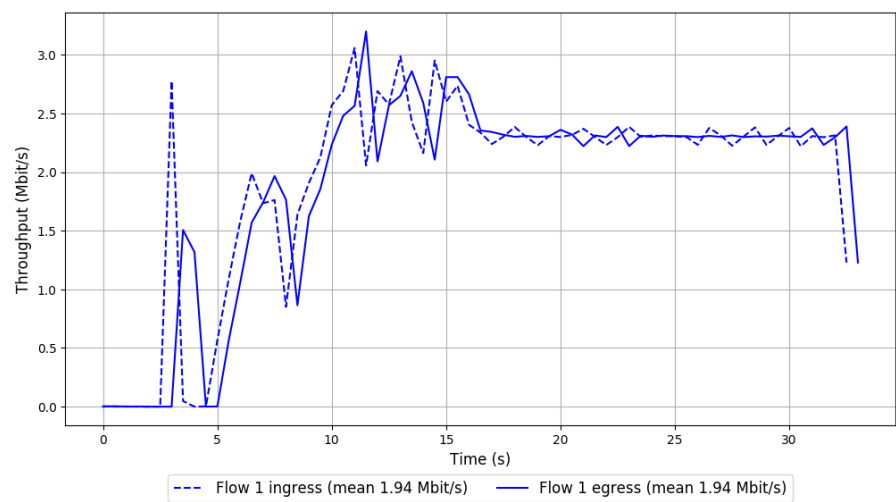
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 18.802 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-21 22:33:00

End at: 2018-08-21 22:33:30

Local clock offset: -3.149 ms

Remote clock offset: 1.645 ms

Below is generated by plot.py at 2018-08-22 00:56:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 19.359 ms

Loss rate: 0.00%

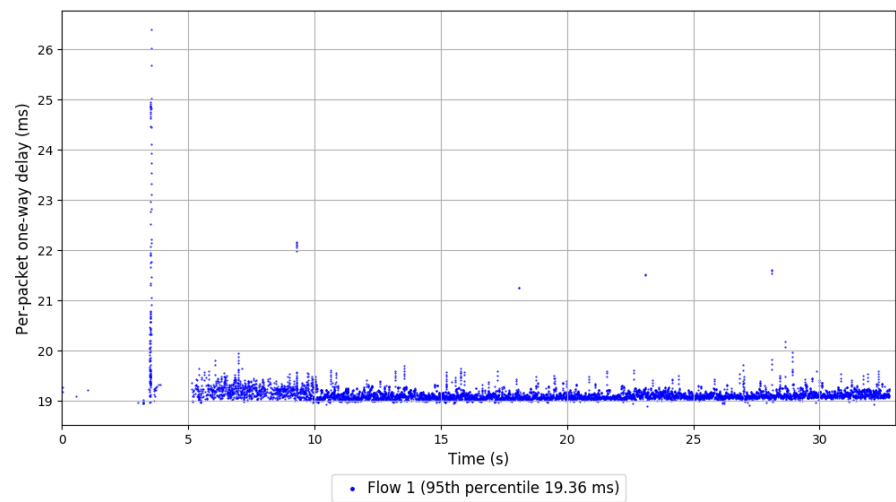
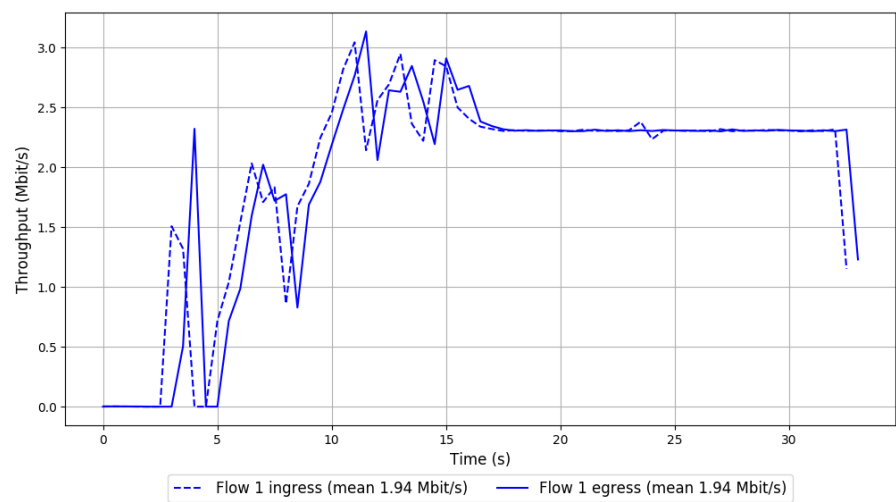
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 19.359 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-21 22:58:09
End at: 2018-08-21 22:58:39
Local clock offset: 0.33 ms
Remote clock offset: -0.373 ms

Below is generated by plot.py at 2018-08-22 00:56:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 18.567 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 2.07 Mbit/s
95th percentile per-packet one-way delay: 18.567 ms
Loss rate: 0.42%

Run 10: Report of WebRTC media — Data Link

