

Pantheon Report

Generated at 2018-08-28 02:08:54 (UTC).

Data path: AWS California 1 ens5 (*local*) → Stanford eno1 (*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.

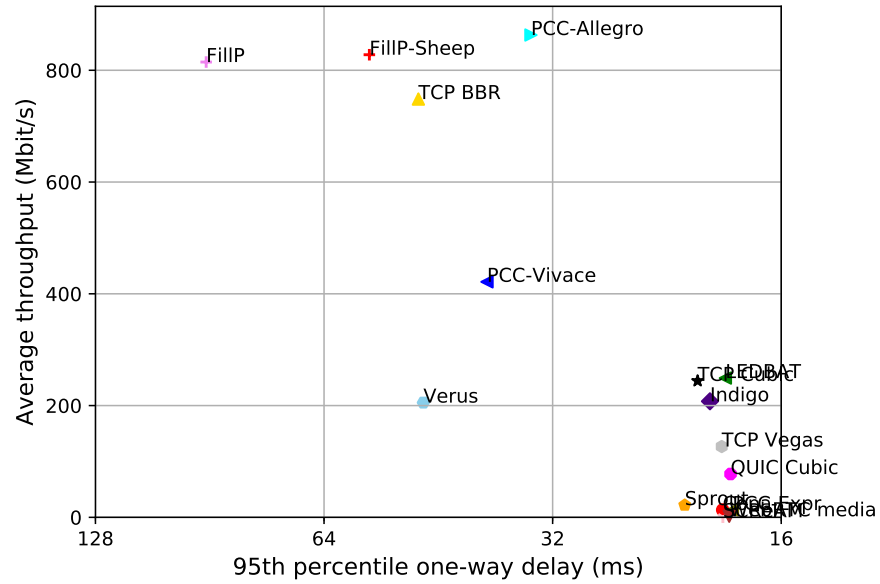
System info:

```
Linux 4.15.0-1019-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

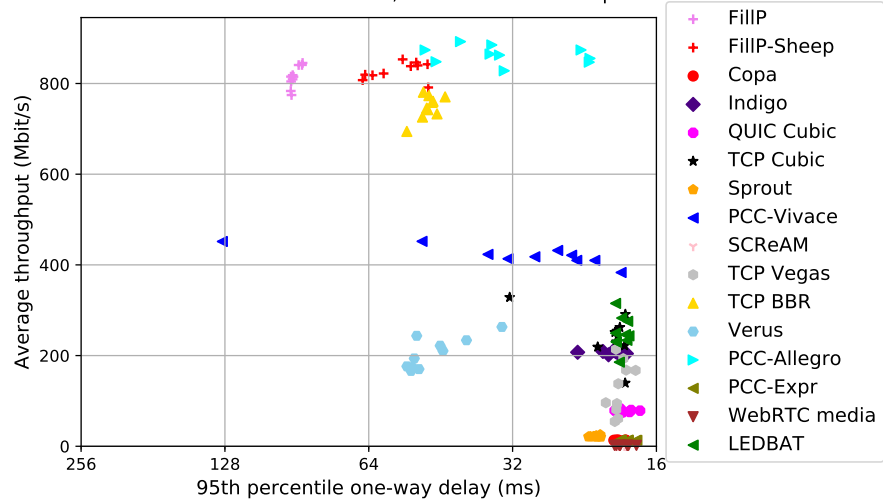
Git summary:

```
branch: master @ 8f31687904b612ba36b45467ab20eda73108da68
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 @ 5386469677b75a7fdc5fe25d8daccce7950d8a69
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)



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	748.49	48.07	0.51
Copa	9	13.22	19.11	63.82
TCP Cubic	10	244.12	20.62	0.02
FillP	10	814.73	91.49	3.78
FillP-Sheep	10	827.81	55.78	4.72
Indigo	10	207.65	19.86	0.01
LEDBAT	10	249.21	18.95	0.01
PCC-Allegro	10	863.10	34.17	0.50
PCC-Expr	10	13.08	18.55	48.98
QUIC Cubic	10	77.56	18.66	0.00
SCReAM	10	0.22	19.10	0.00
Sprout	10	21.90	21.44	0.05
TaoVA-100x	0	N/A	N/A	N/A
TCP Vegas	10	126.69	19.16	0.12
Verus	10	205.31	47.36	21.59
PCC-Vivace	10	421.41	39.05	0.04
WebRTC media	10	1.95	18.73	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 20:47:04

End at: 2018-08-27 20:47:34

Local clock offset: -3.803 ms

Remote clock offset: 3.228 ms

Below is generated by plot.py at 2018-08-28 01:00:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 694.34 Mbit/s

95th percentile per-packet one-way delay: 53.267 ms

Loss rate: 0.22%

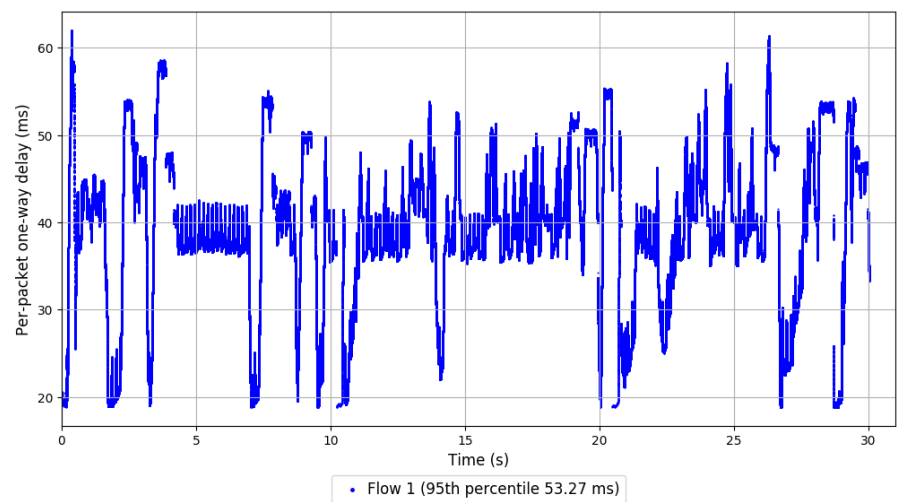
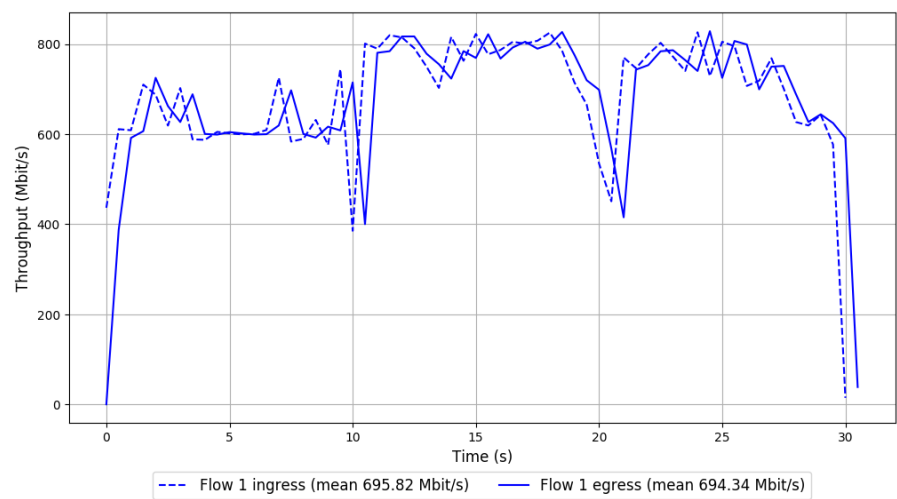
-- Flow 1:

Average throughput: 694.34 Mbit/s

95th percentile per-packet one-way delay: 53.267 ms

Loss rate: 0.22%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-27 21:11:31

End at: 2018-08-27 21:12:02

Local clock offset: -1.39 ms

Remote clock offset: 3.527 ms

Below is generated by plot.py at 2018-08-28 01:00:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 725.94 Mbit/s

95th percentile per-packet one-way delay: 49.402 ms

Loss rate: 0.27%

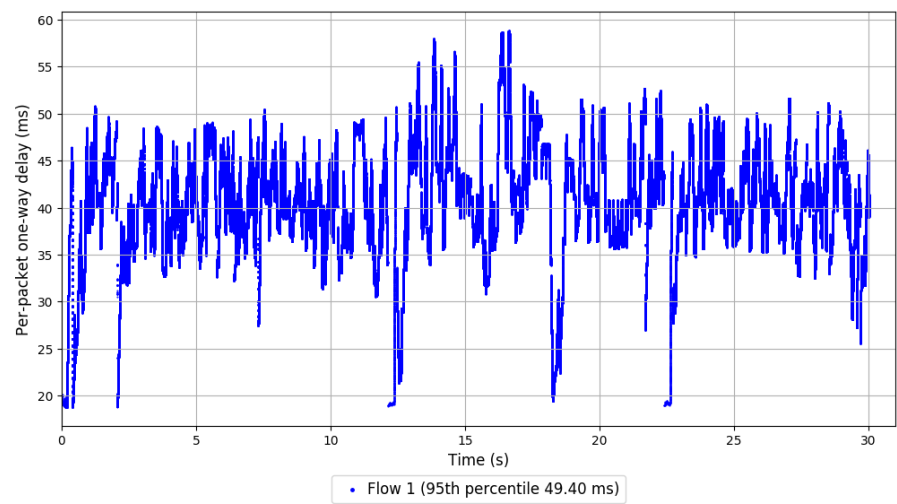
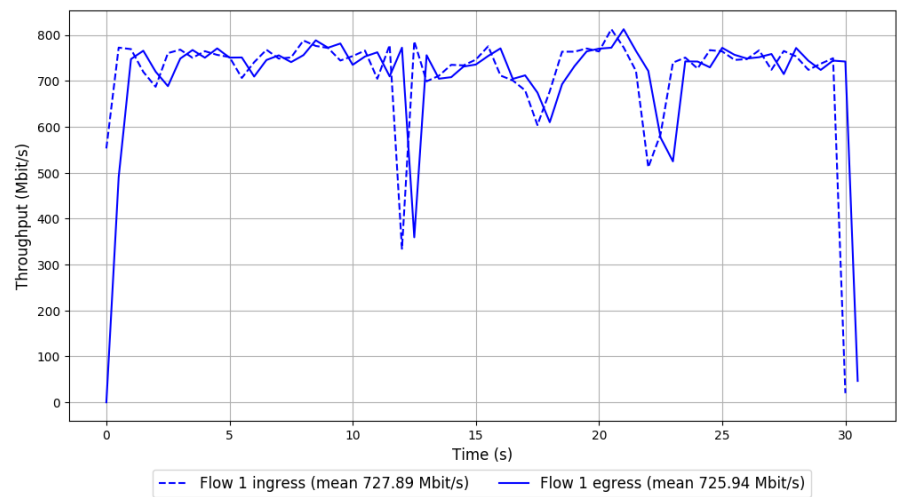
-- Flow 1:

Average throughput: 725.94 Mbit/s

95th percentile per-packet one-way delay: 49.402 ms

Loss rate: 0.27%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 21:36:04

End at: 2018-08-27 21:36:34

Local clock offset: 0.266 ms

Remote clock offset: -1.006 ms

Below is generated by plot.py at 2018-08-28 01:01:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 780.72 Mbit/s

95th percentile per-packet one-way delay: 49.185 ms

Loss rate: 0.75%

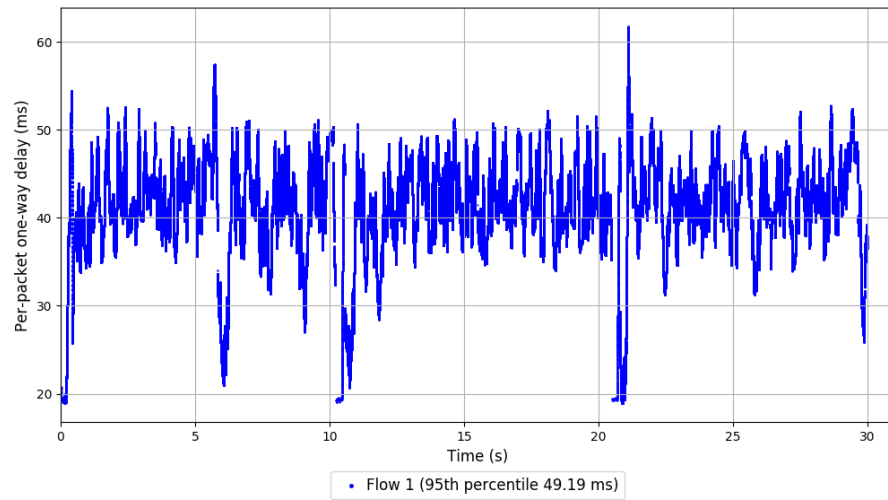
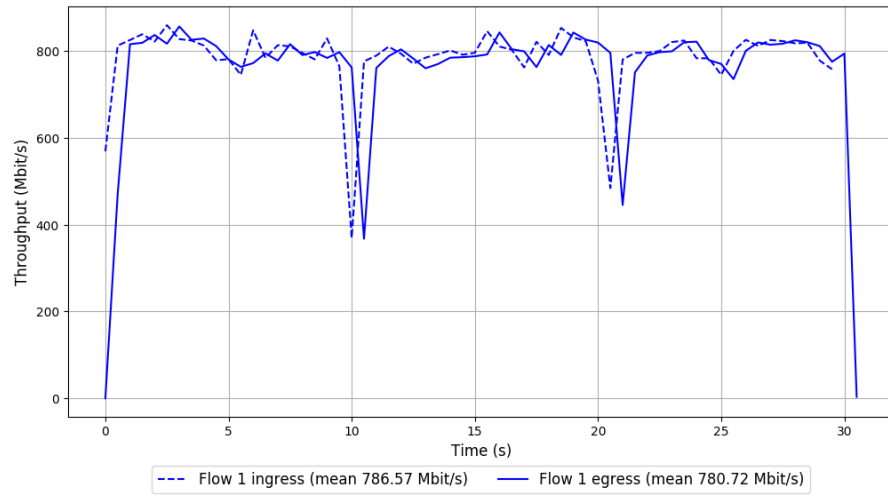
-- Flow 1:

Average throughput: 780.72 Mbit/s

95th percentile per-packet one-way delay: 49.185 ms

Loss rate: 0.75%

Run 3: Report of TCP BBR — Data Link

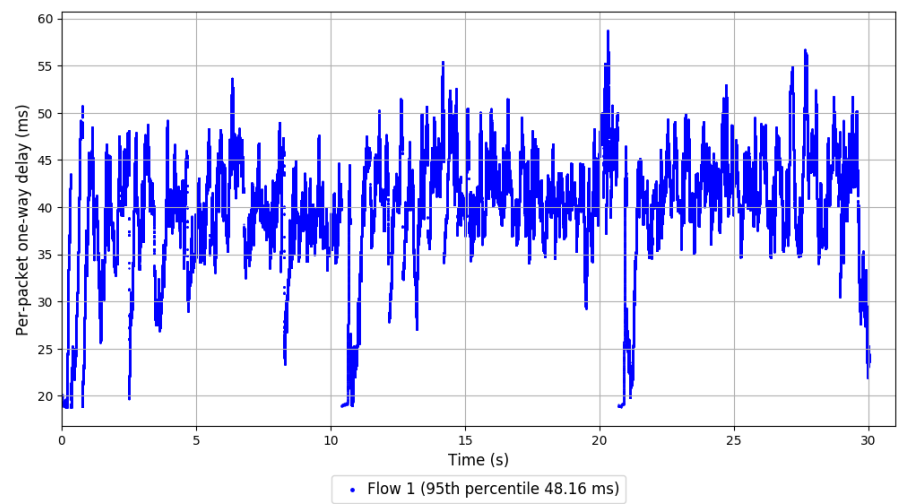
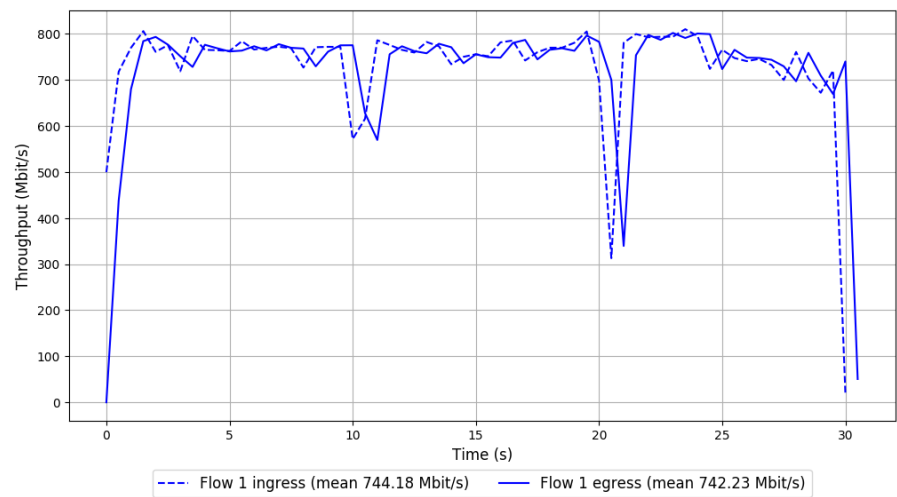


Run 4: Statistics of TCP BBR

Start at: 2018-08-27 22:00:40
End at: 2018-08-27 22:01:10
Local clock offset: 0.313 ms
Remote clock offset: -0.603 ms

Below is generated by plot.py at 2018-08-28 01:01:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 742.23 Mbit/s
95th percentile per-packet one-way delay: 48.156 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 742.23 Mbit/s
95th percentile per-packet one-way delay: 48.156 ms
Loss rate: 0.26%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-27 22:25:07

End at: 2018-08-27 22:25:37

Local clock offset: 0.411 ms

Remote clock offset: -0.588 ms

Below is generated by plot.py at 2018-08-28 01:01:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 770.51 Mbit/s

95th percentile per-packet one-way delay: 44.298 ms

Loss rate: 0.41%

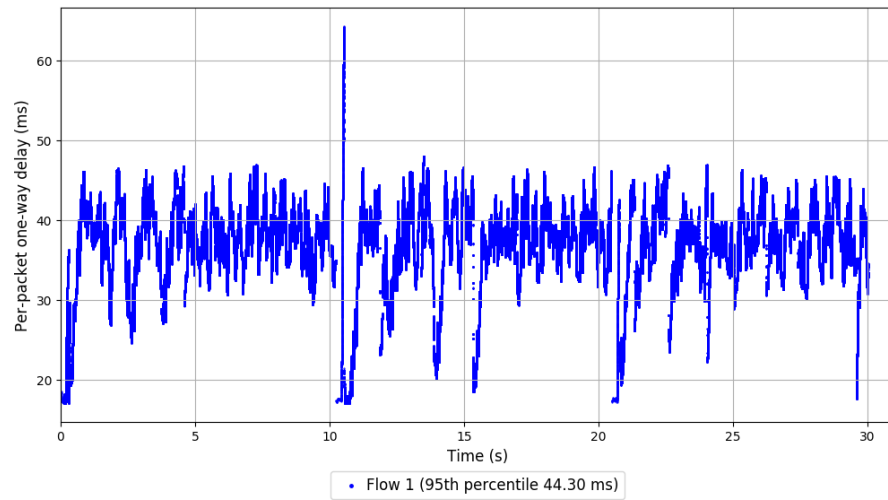
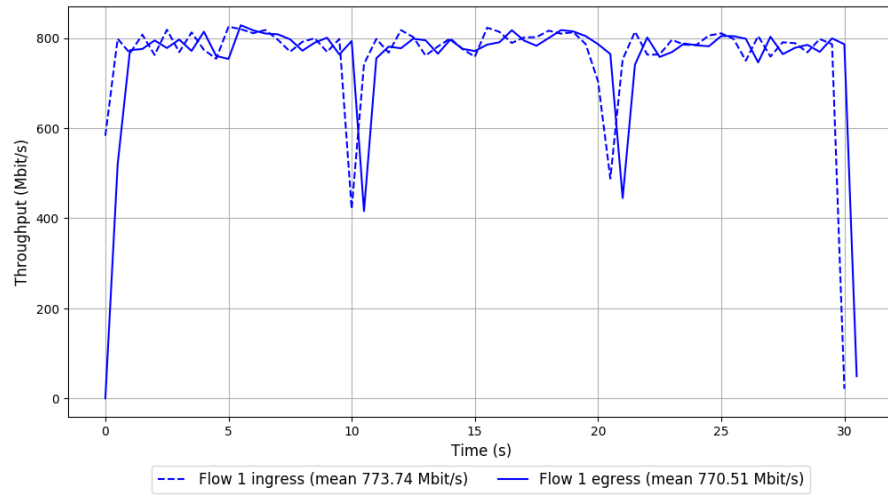
-- Flow 1:

Average throughput: 770.51 Mbit/s

95th percentile per-packet one-way delay: 44.298 ms

Loss rate: 0.41%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 22:49:36

End at: 2018-08-27 22:50:06

Local clock offset: 0.378 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-08-28 01:01:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 760.80 Mbit/s

95th percentile per-packet one-way delay: 46.954 ms

Loss rate: 0.51%

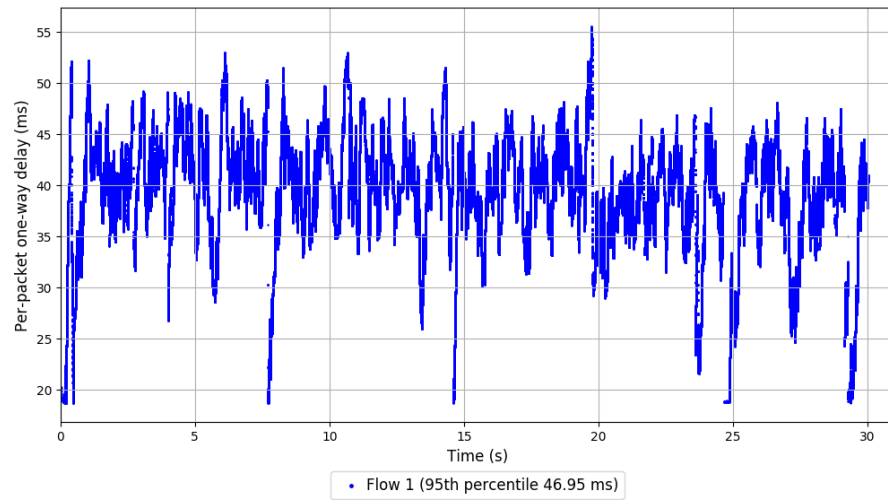
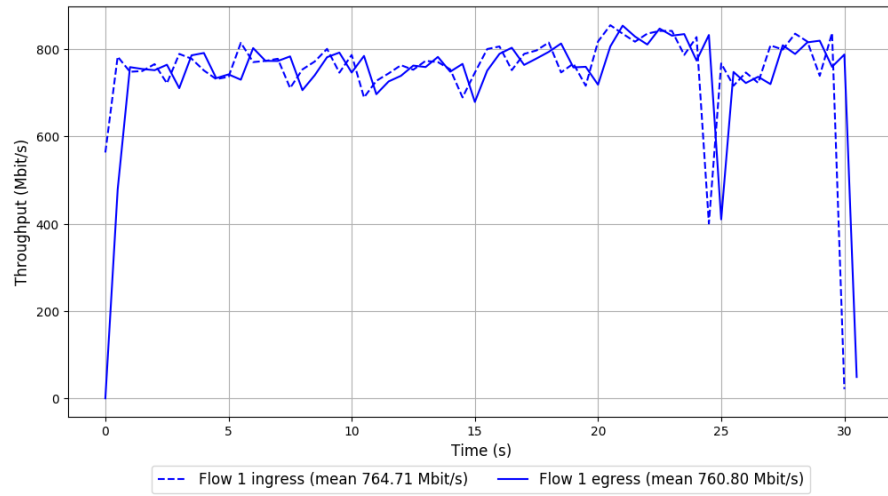
-- Flow 1:

Average throughput: 760.80 Mbit/s

95th percentile per-packet one-way delay: 46.954 ms

Loss rate: 0.51%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-27 23:14:07

End at: 2018-08-27 23:14:37

Local clock offset: 0.374 ms

Remote clock offset: 3.486 ms

Below is generated by plot.py at 2018-08-28 01:01:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 745.71 Mbit/s

95th percentile per-packet one-way delay: 48.395 ms

Loss rate: 1.27%

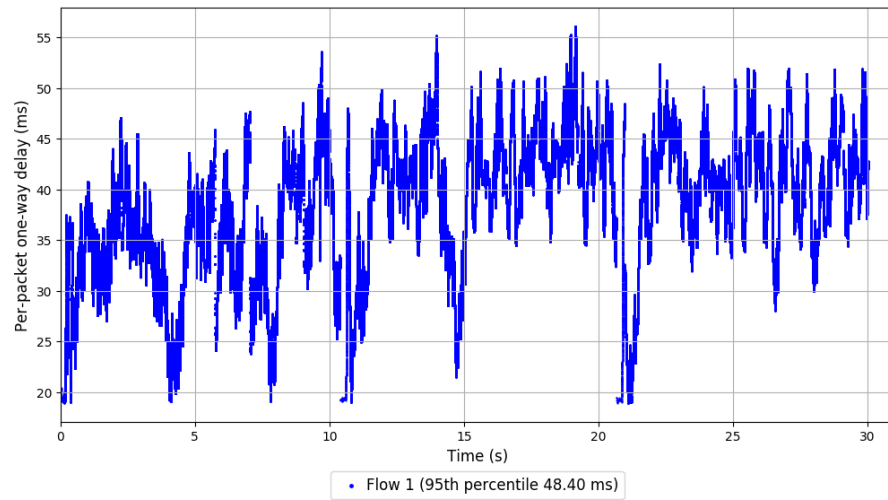
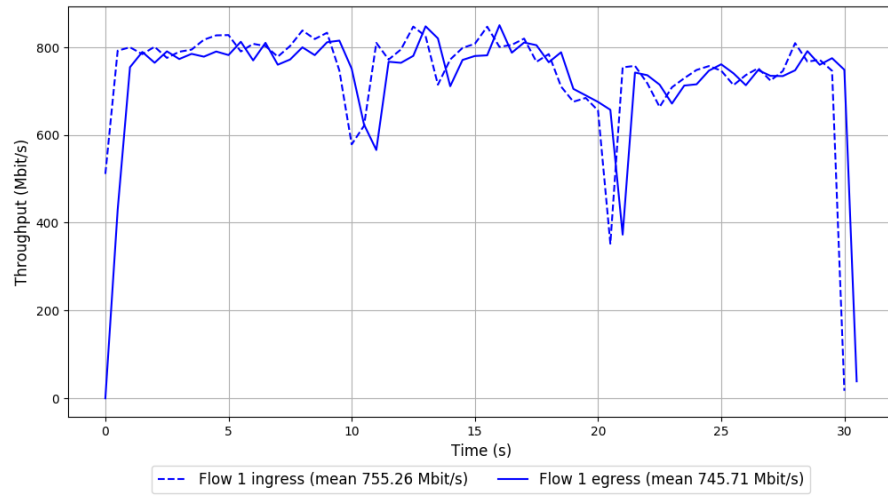
-- Flow 1:

Average throughput: 745.71 Mbit/s

95th percentile per-packet one-way delay: 48.395 ms

Loss rate: 1.27%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-27 23:38:39

End at: 2018-08-27 23:39:09

Local clock offset: 0.266 ms

Remote clock offset: 1.769 ms

Below is generated by plot.py at 2018-08-28 01:01:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 758.36 Mbit/s

95th percentile per-packet one-way delay: 47.140 ms

Loss rate: 0.55%

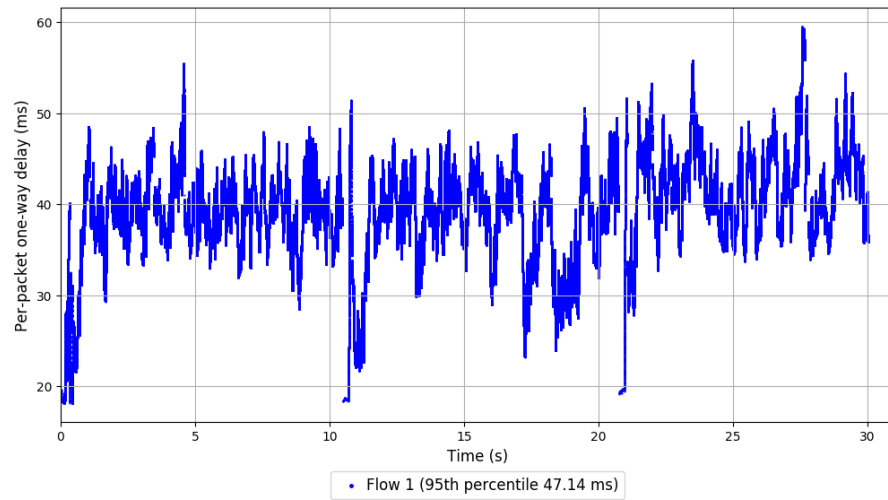
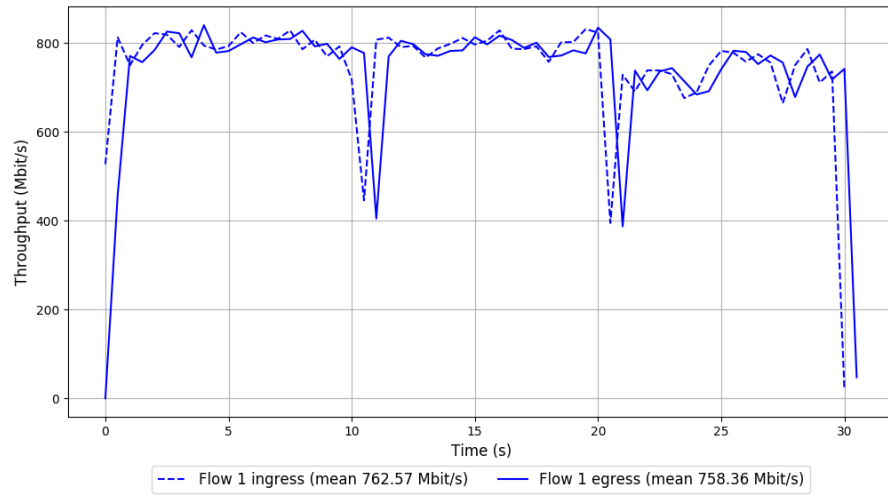
-- Flow 1:

Average throughput: 758.36 Mbit/s

95th percentile per-packet one-way delay: 47.140 ms

Loss rate: 0.55%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-28 00:03:08

End at: 2018-08-28 00:03:38

Local clock offset: 0.127 ms

Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 773.27 Mbit/s

95th percentile per-packet one-way delay: 47.895 ms

Loss rate: 0.60%

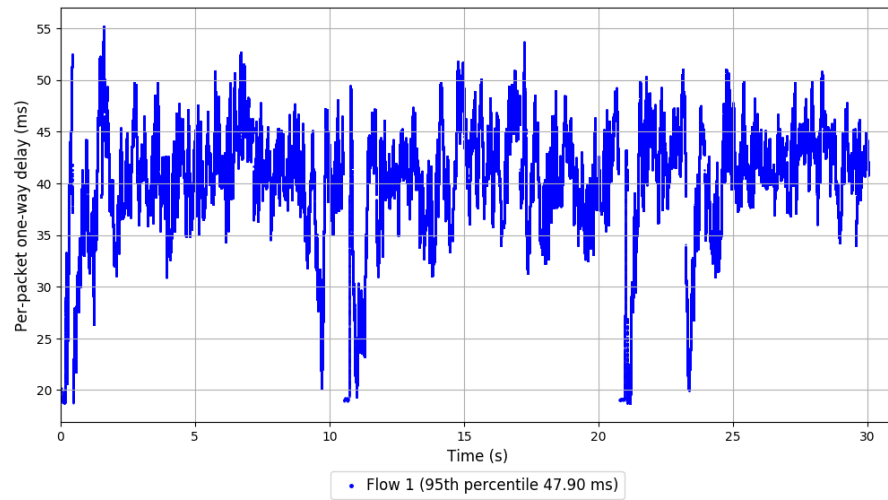
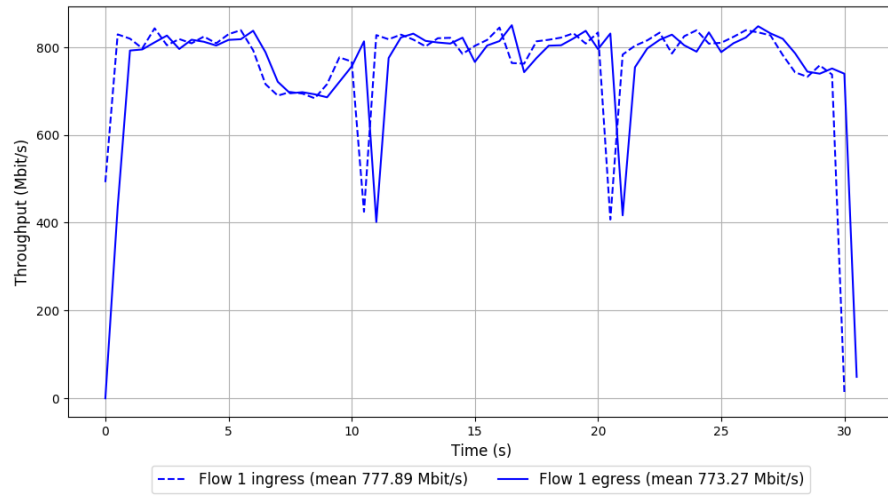
-- Flow 1:

Average throughput: 773.27 Mbit/s

95th percentile per-packet one-way delay: 47.895 ms

Loss rate: 0.60%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-28 00:27:46

End at: 2018-08-28 00:28:16

Local clock offset: -0.04 ms

Remote clock offset: -1.083 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 733.02 Mbit/s

95th percentile per-packet one-way delay: 46.055 ms

Loss rate: 0.29%

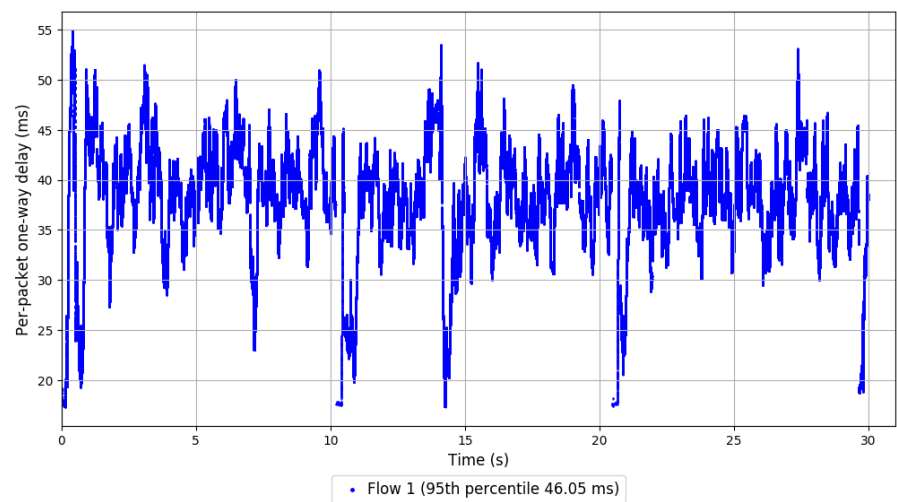
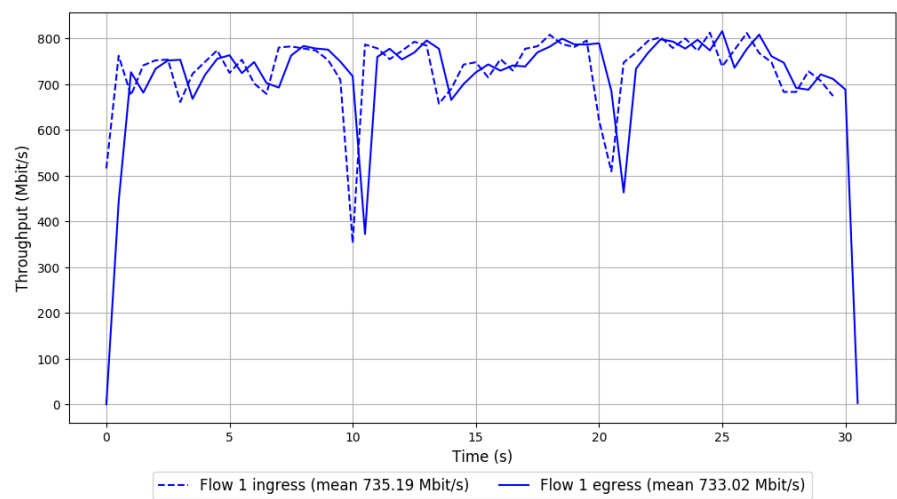
-- Flow 1:

Average throughput: 733.02 Mbit/s

95th percentile per-packet one-way delay: 46.055 ms

Loss rate: 0.29%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

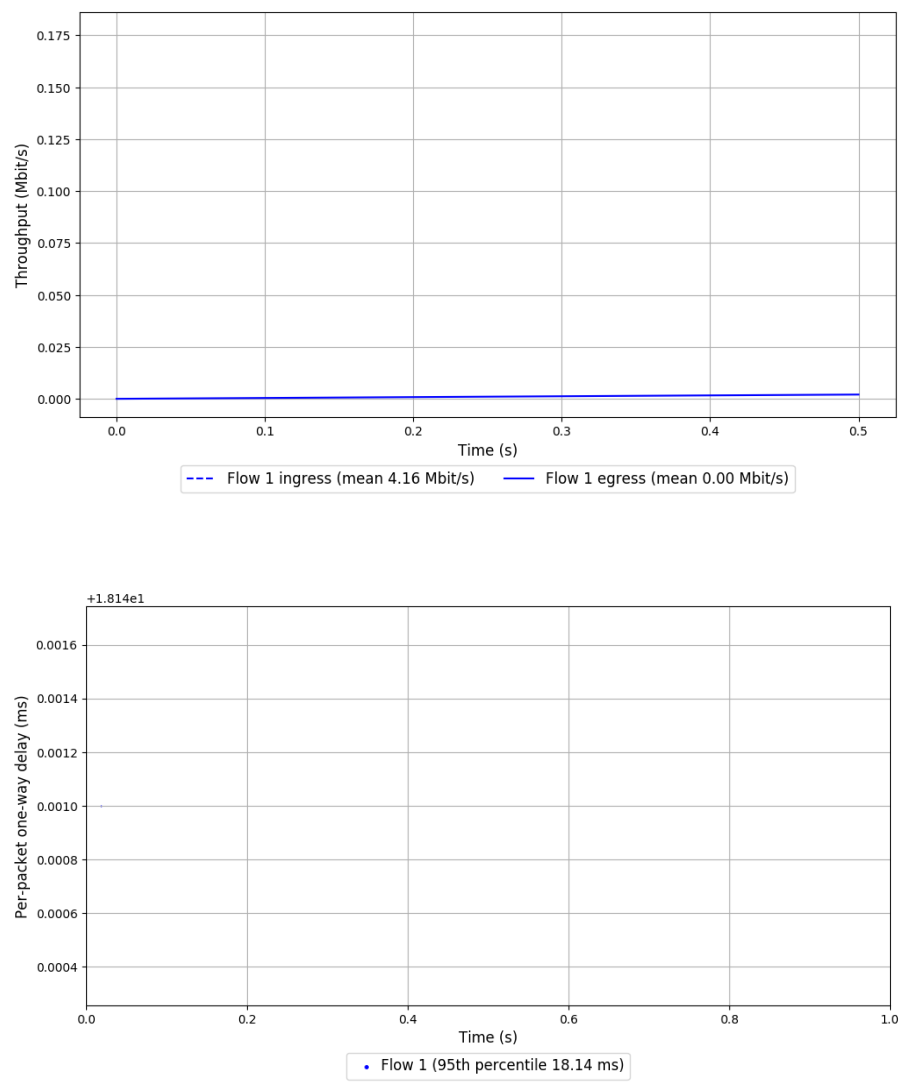
Start at: 2018-08-27 20:42:52

End at: 2018-08-27 20:43:22

Local clock offset: -3.53 ms

Remote clock offset: 3.361 ms

Run 1: Report of Copa — Data Link

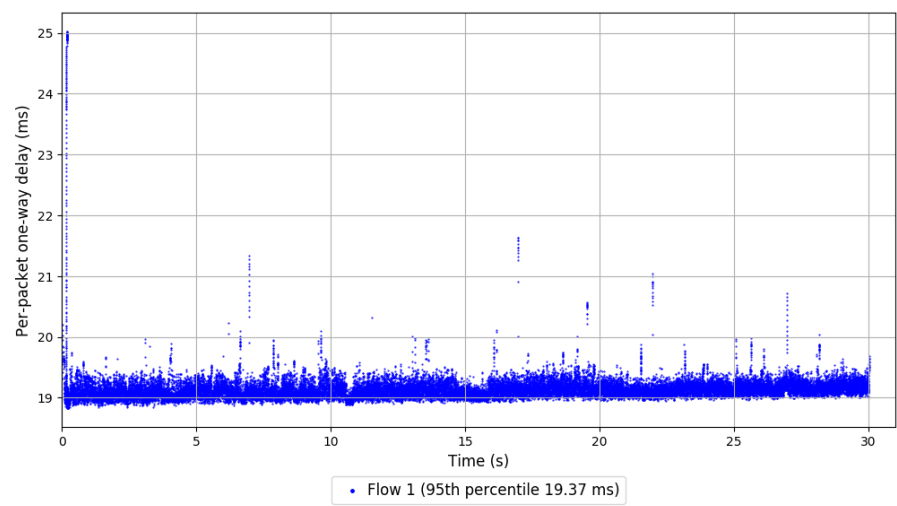
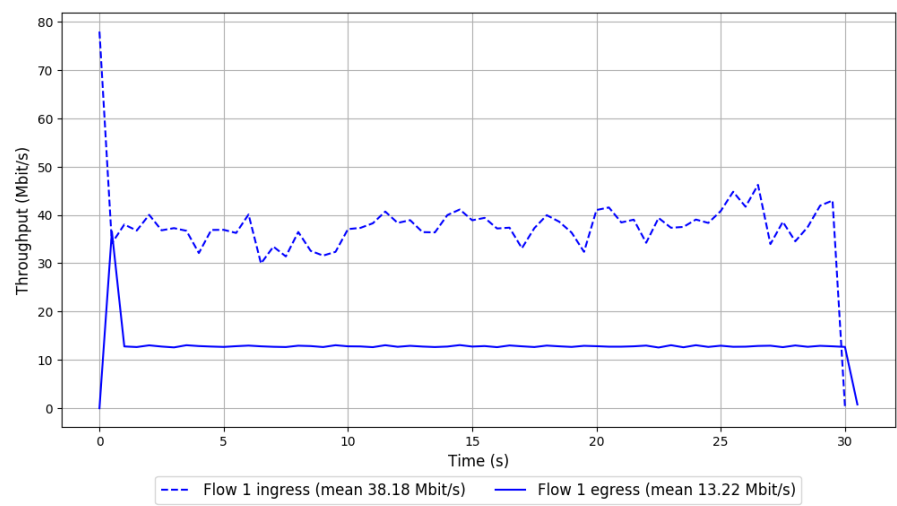


Run 2: Statistics of Copa

Start at: 2018-08-27 21:07:20
End at: 2018-08-27 21:07:50
Local clock offset: -2.537 ms
Remote clock offset: 3.419 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.371 ms
Loss rate: 65.39%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.371 ms
Loss rate: 65.39%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-27 21:31:53

End at: 2018-08-27 21:32:23

Local clock offset: 0.107 ms

Remote clock offset: -0.64 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 18.632 ms

Loss rate: 64.69%

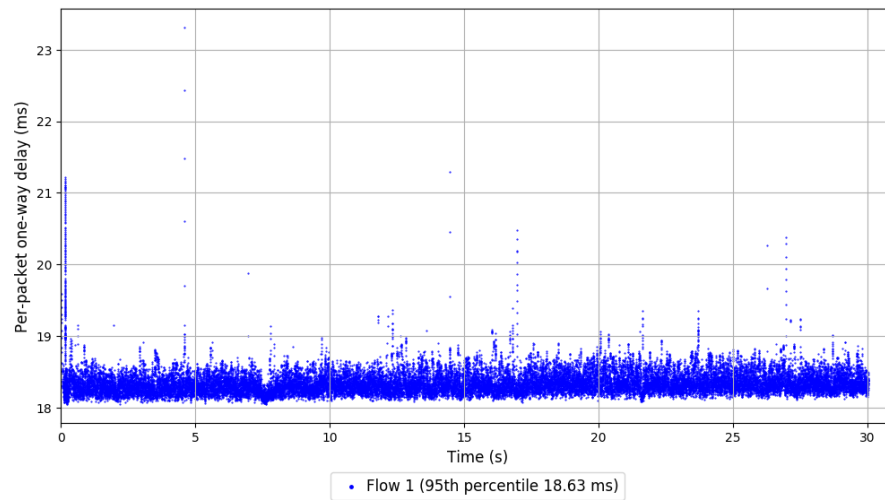
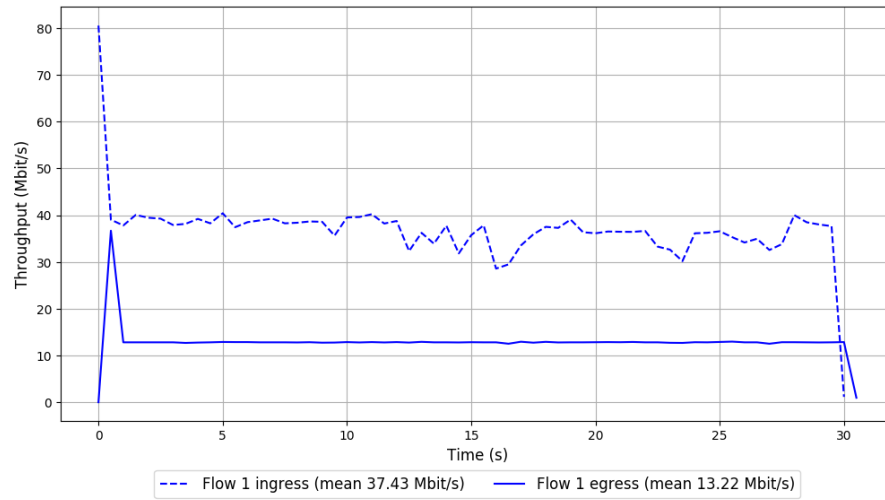
-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 18.632 ms

Loss rate: 64.69%

Run 3: Report of Copa — Data Link

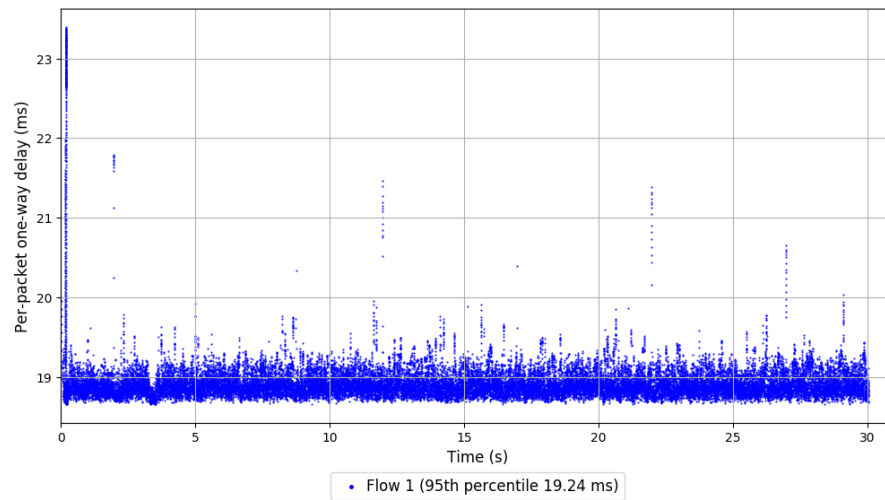
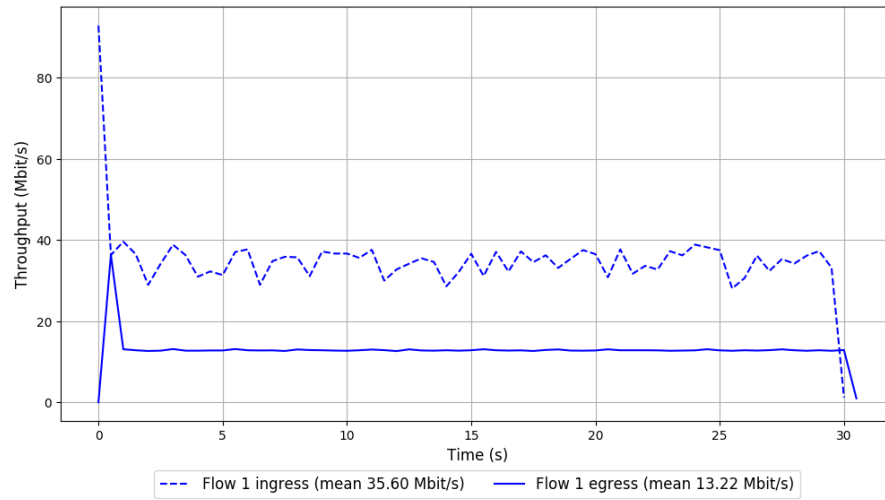


Run 4: Statistics of Copa

Start at: 2018-08-27 21:56:27
End at: 2018-08-27 21:56:57
Local clock offset: 0.39 ms
Remote clock offset: -0.753 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.239 ms
Loss rate: 62.87%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.239 ms
Loss rate: 62.87%

Run 4: Report of Copa — Data Link

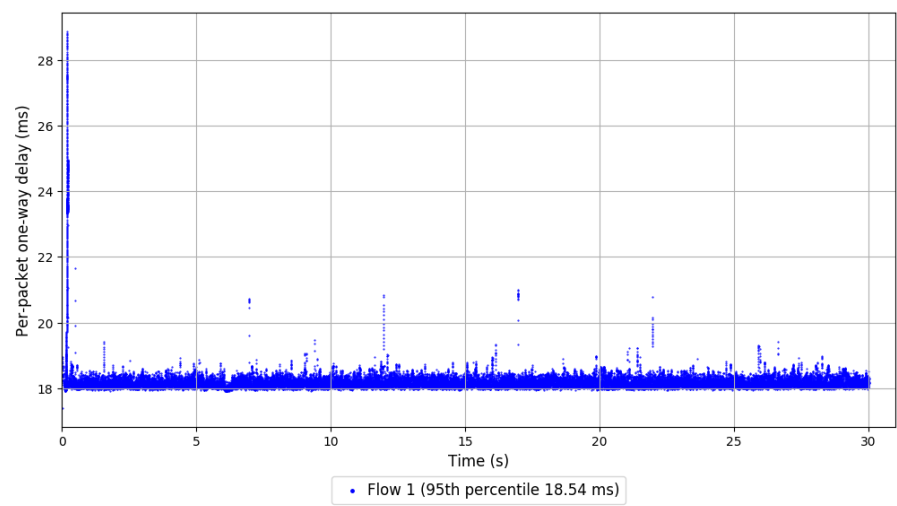
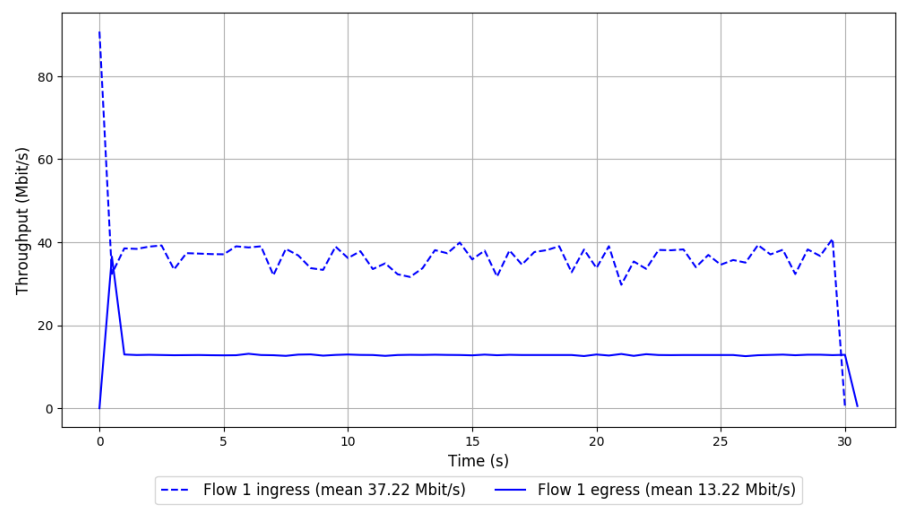


Run 5: Statistics of Copa

Start at: 2018-08-27 22:20:54
End at: 2018-08-27 22:21:24
Local clock offset: 0.396 ms
Remote clock offset: -0.848 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 18.542 ms
Loss rate: 64.49%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 18.542 ms
Loss rate: 64.49%

Run 5: Report of Copa — Data Link

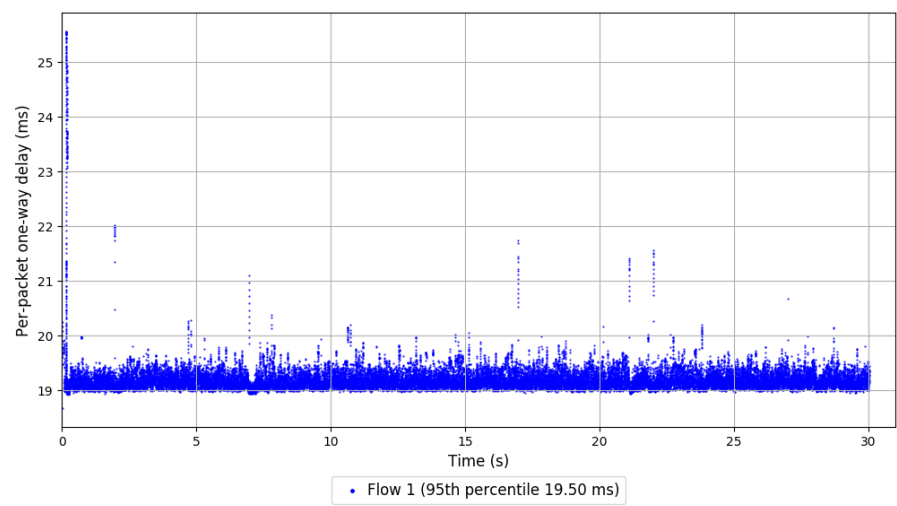
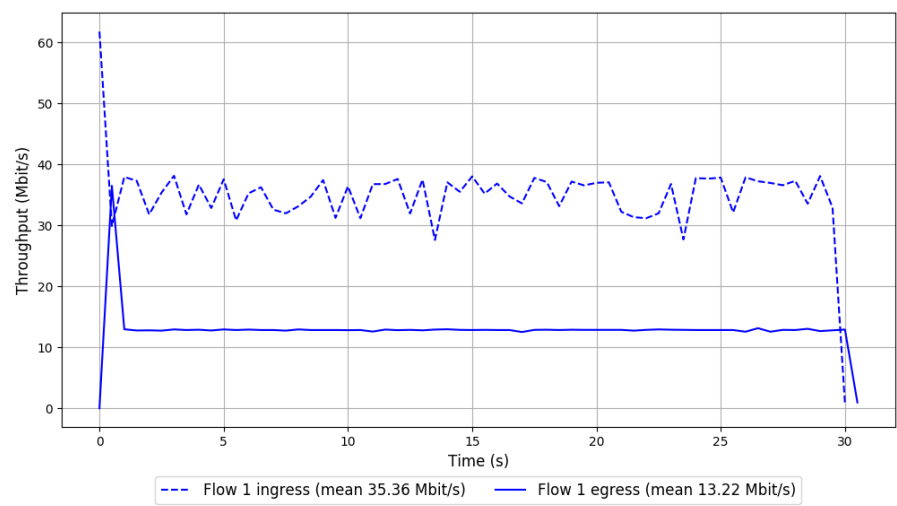


Run 6: Statistics of Copa

Start at: 2018-08-27 22:45:23
End at: 2018-08-27 22:45:53
Local clock offset: 0.297 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.500 ms
Loss rate: 62.62%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.500 ms
Loss rate: 62.62%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-27 23:09:57

End at: 2018-08-27 23:10:27

Local clock offset: 0.445 ms

Remote clock offset: 3.074 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 18.529 ms

Loss rate: 63.79%

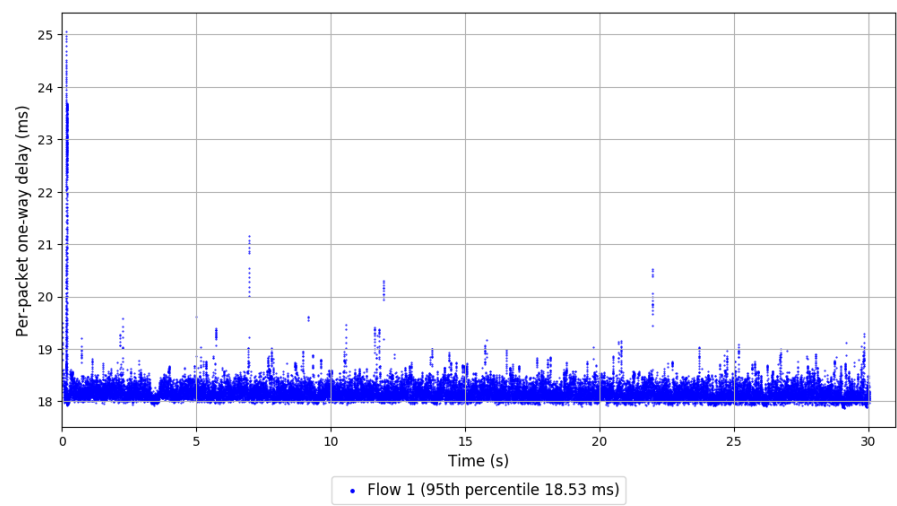
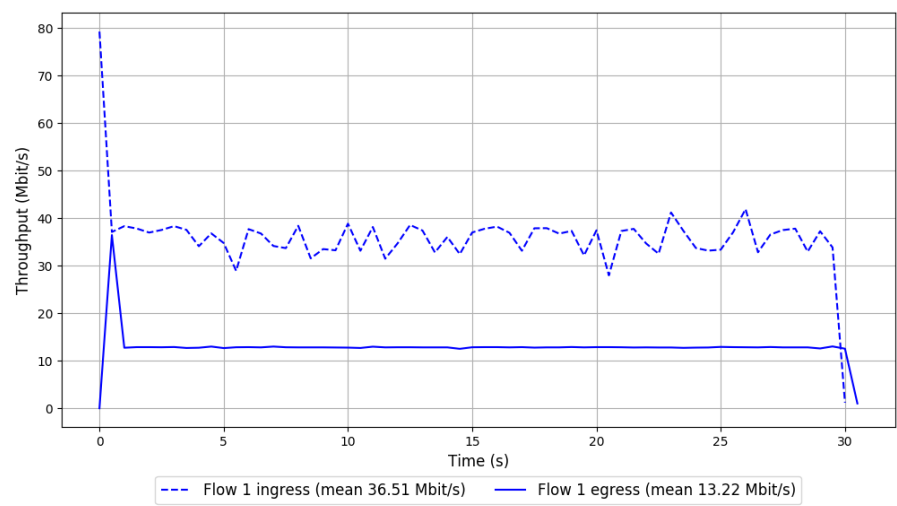
-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 18.529 ms

Loss rate: 63.79%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-08-27 23:34:27

End at: 2018-08-27 23:34:57

Local clock offset: 0.376 ms

Remote clock offset: 2.911 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 19.645 ms

Loss rate: 63.93%

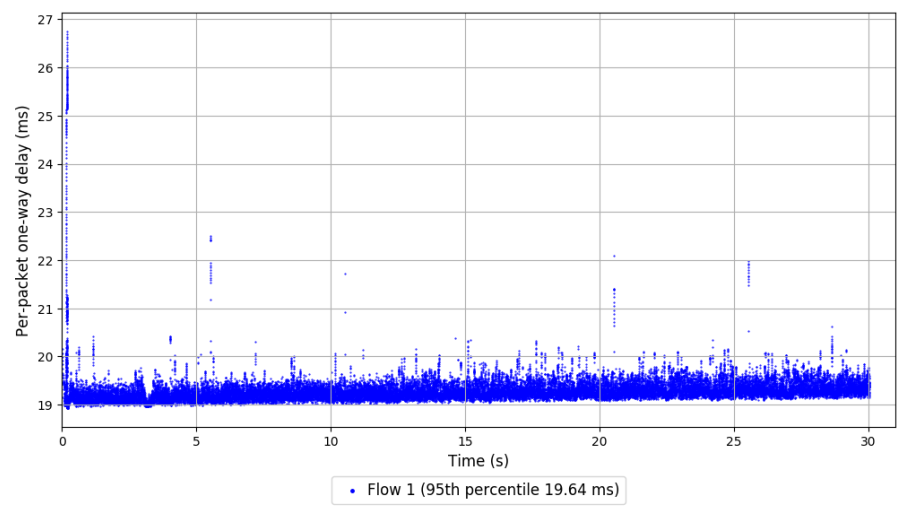
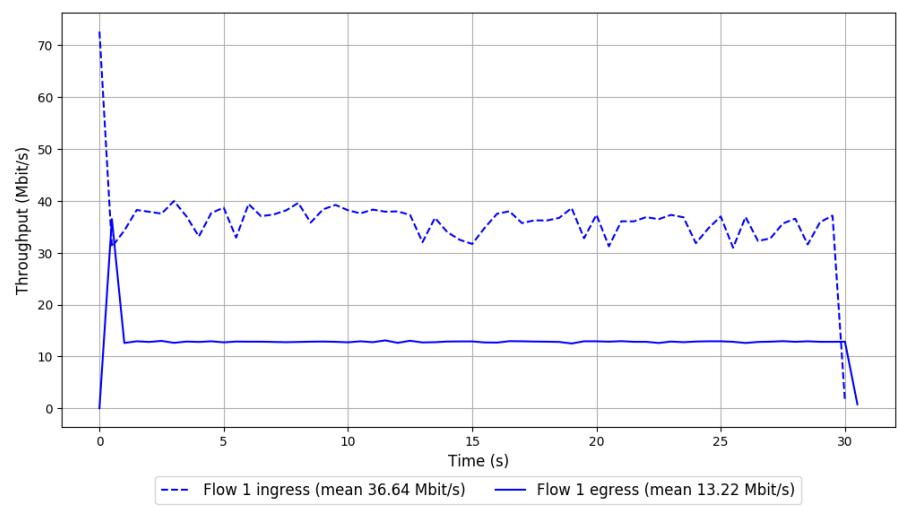
-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 19.645 ms

Loss rate: 63.93%

Run 8: Report of Copa — Data Link

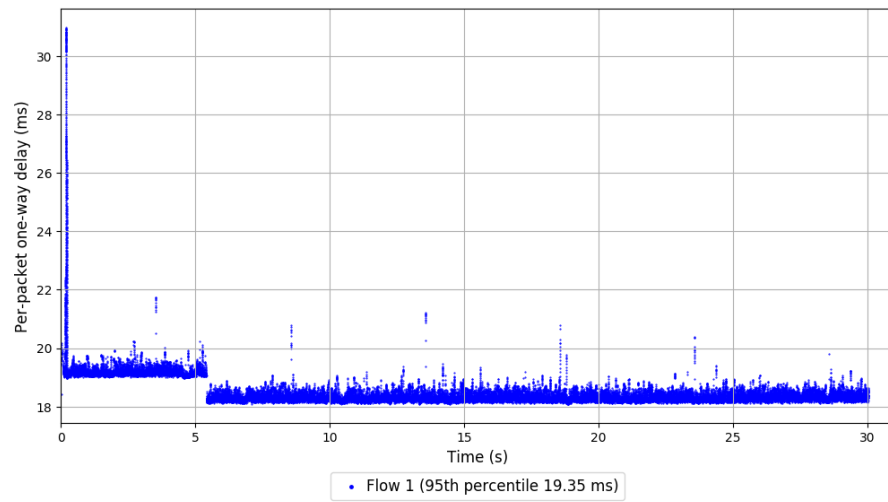
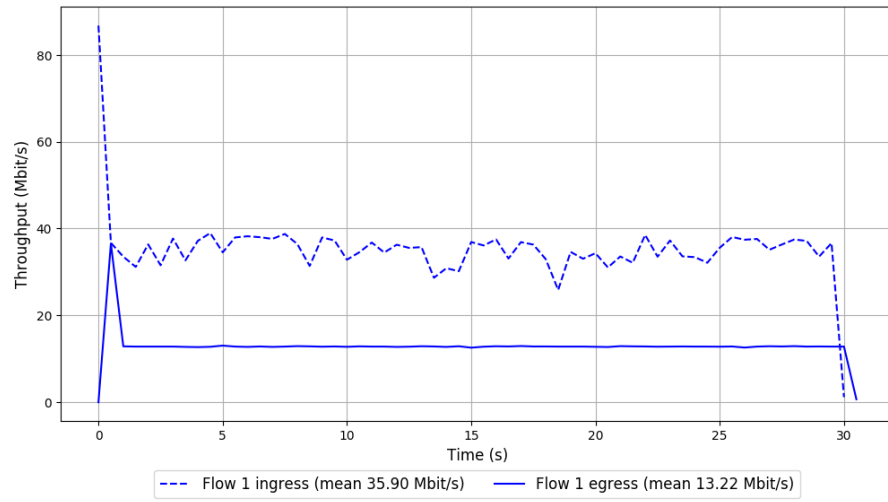


Run 9: Statistics of Copa

Start at: 2018-08-27 23:58:56
End at: 2018-08-27 23:59:26
Local clock offset: 0.035 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.352 ms
Loss rate: 63.18%
-- Flow 1:
Average throughput: 13.22 Mbit/s
95th percentile per-packet one-way delay: 19.352 ms
Loss rate: 63.18%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-08-28 00:23:34

End at: 2018-08-28 00:24:04

Local clock offset: 0.093 ms

Remote clock offset: -1.008 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 63.40%

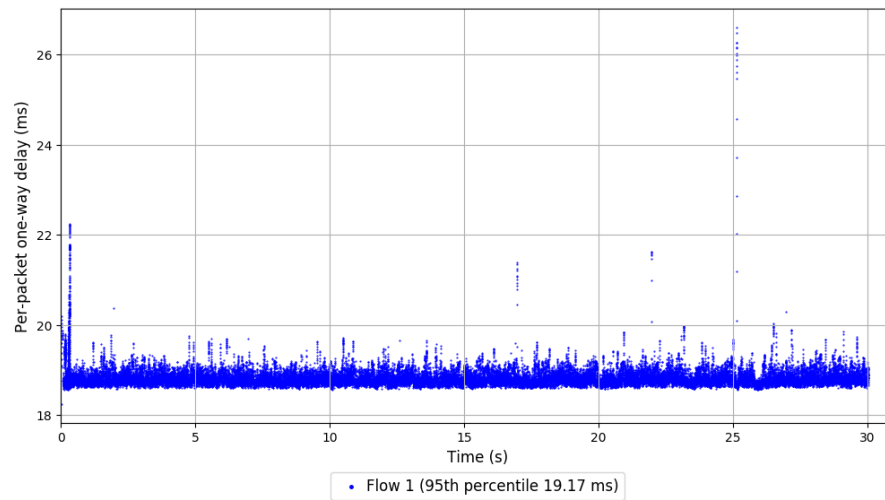
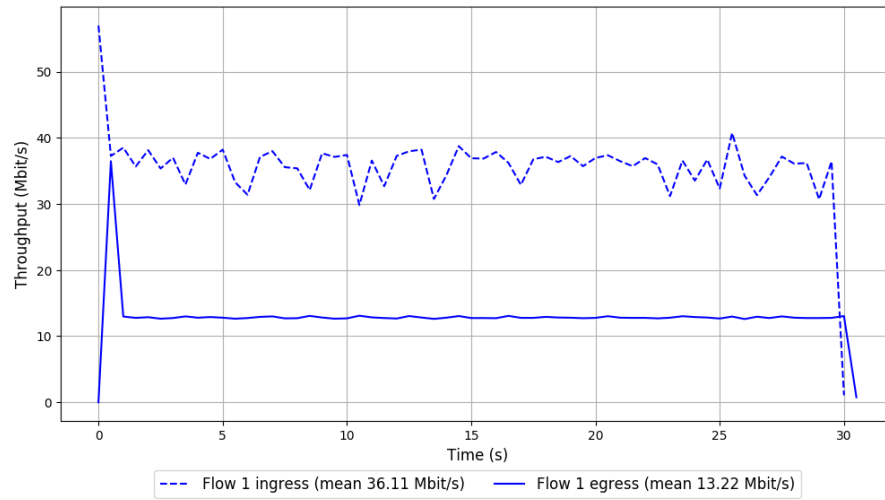
-- Flow 1:

Average throughput: 13.22 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 63.40%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 21:01:56

End at: 2018-08-27 21:02:26

Local clock offset: -4.942 ms

Remote clock offset: 3.33 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.31 Mbit/s

95th percentile per-packet one-way delay: 19.538 ms

Loss rate: 0.01%

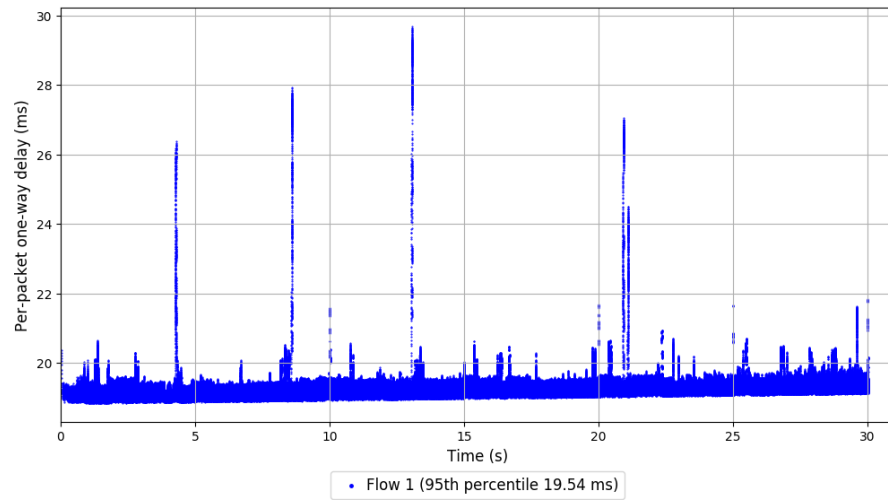
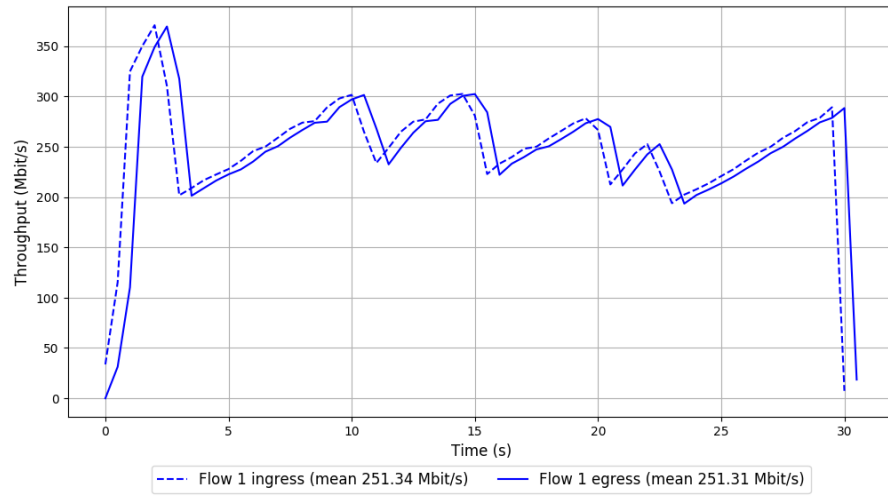
-- Flow 1:

Average throughput: 251.31 Mbit/s

95th percentile per-packet one-way delay: 19.538 ms

Loss rate: 0.01%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 21:26:27

End at: 2018-08-27 21:26:57

Local clock offset: -0.03 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 18.662 ms

Loss rate: 0.05%

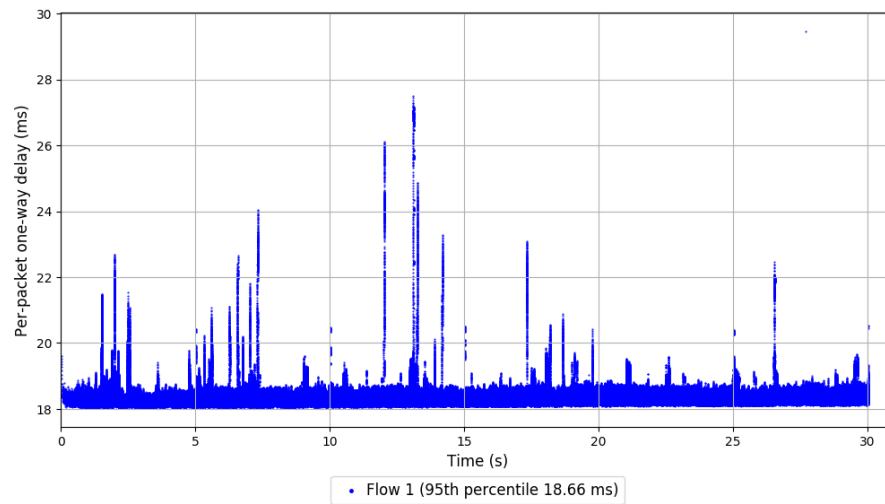
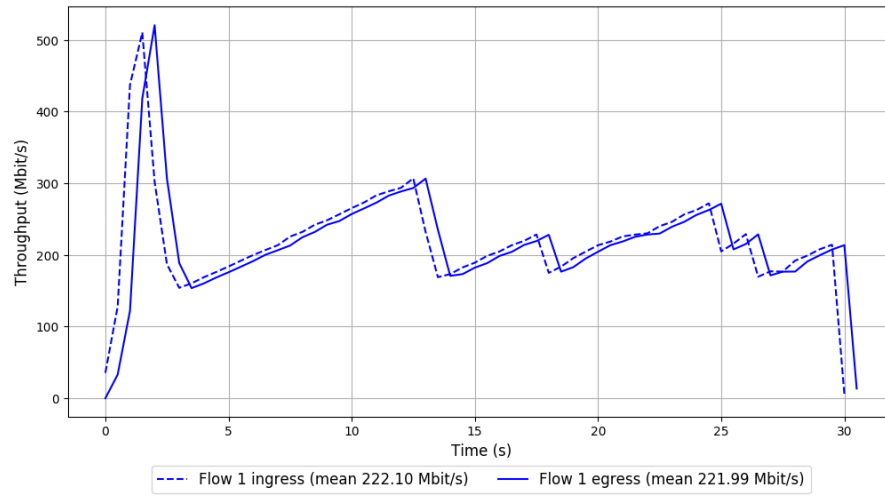
-- Flow 1:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 18.662 ms

Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link

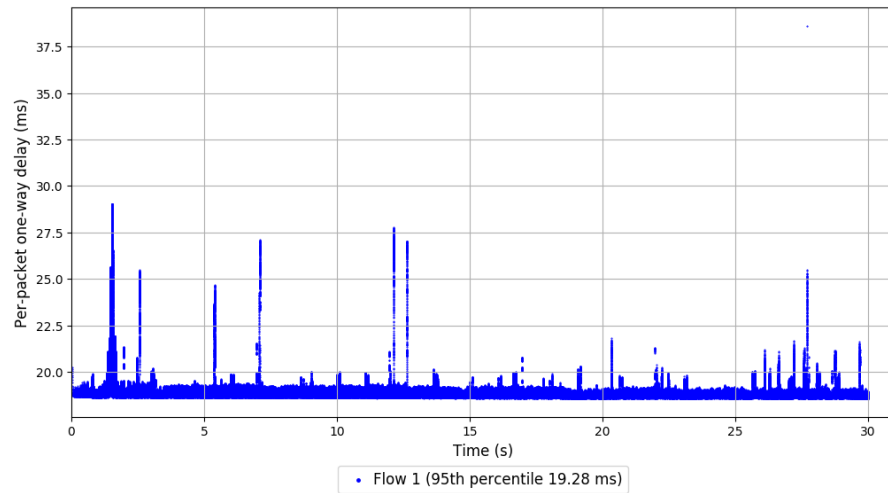
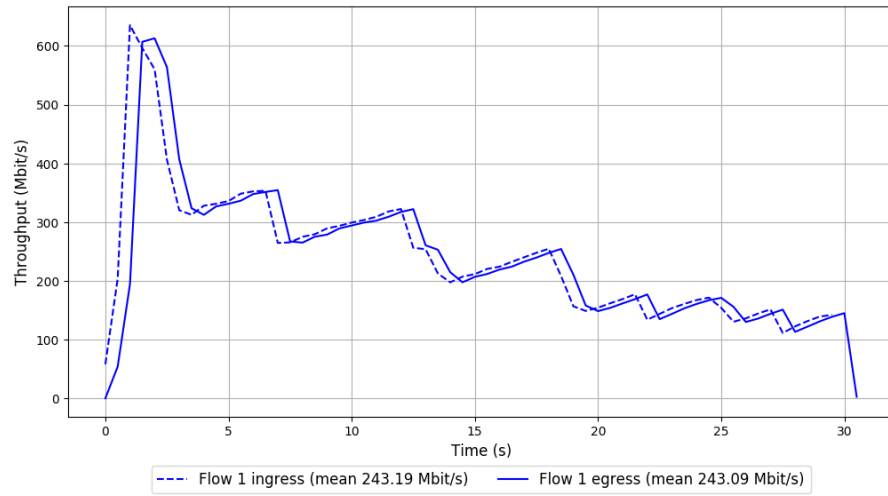


Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 21:51:02
End at: 2018-08-27 21:51:32
Local clock offset: 0.372 ms
Remote clock offset: -1.234 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.09 Mbit/s
95th percentile per-packet one-way delay: 19.276 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 243.09 Mbit/s
95th percentile per-packet one-way delay: 19.276 ms
Loss rate: 0.04%

Run 3: Report of TCP Cubic — Data Link

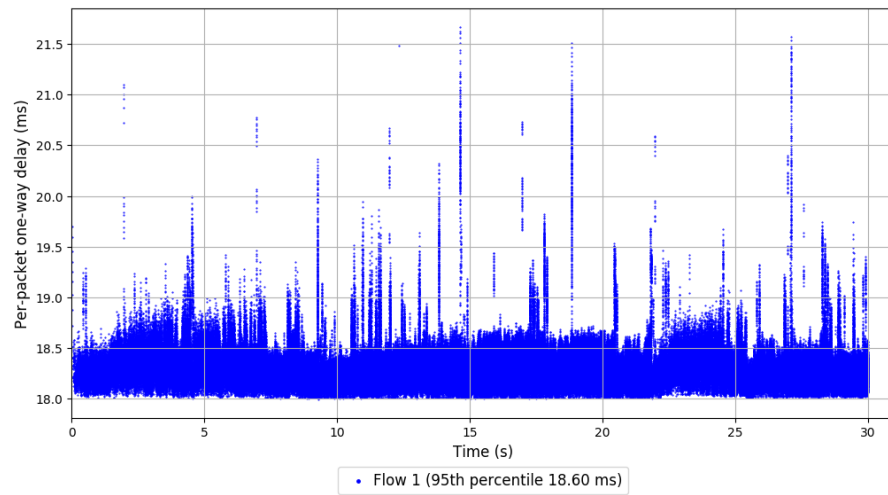
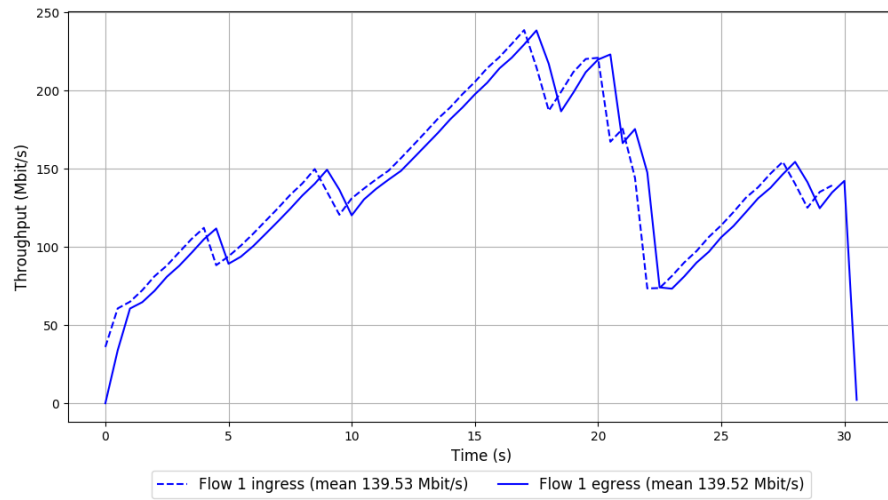


Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 22:15:35
End at: 2018-08-27 22:16:05
Local clock offset: 0.365 ms
Remote clock offset: -0.641 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 139.52 Mbit/s
95th percentile per-packet one-way delay: 18.600 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 139.52 Mbit/s
95th percentile per-packet one-way delay: 18.600 ms
Loss rate: 0.01%

Run 4: Report of TCP Cubic — Data Link

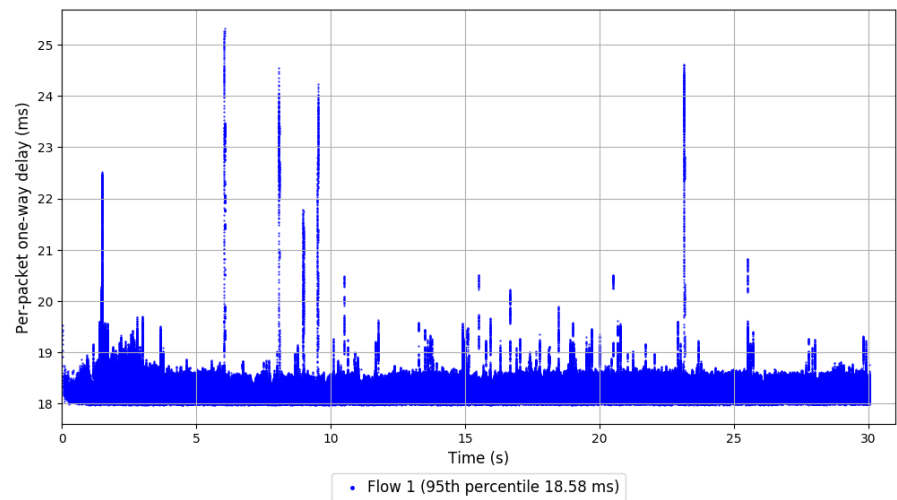
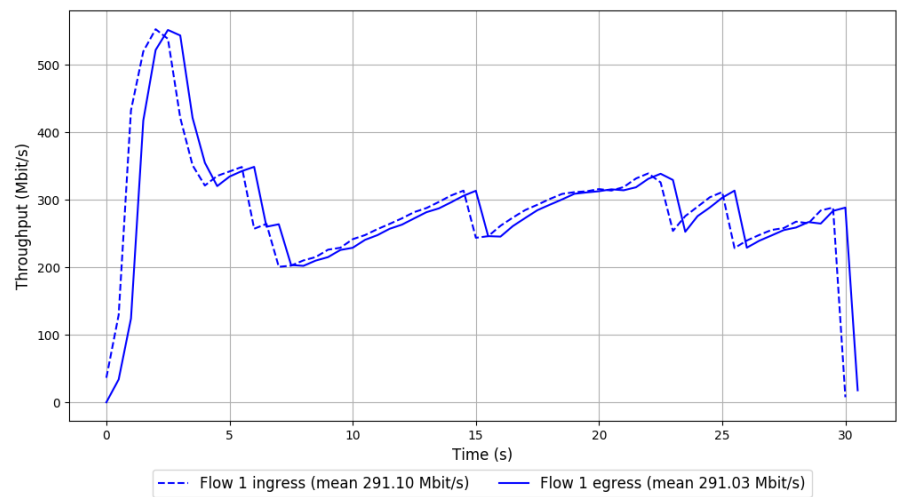


Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 22:39:59
End at: 2018-08-27 22:40:29
Local clock offset: 0.302 ms
Remote clock offset: -0.212 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 291.03 Mbit/s
95th percentile per-packet one-way delay: 18.582 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 291.03 Mbit/s
95th percentile per-packet one-way delay: 18.582 ms
Loss rate: 0.02%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-27 23:04:32

End at: 2018-08-27 23:05:02

Local clock offset: 0.433 ms

Remote clock offset: 2.195 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 219.03 Mbit/s

95th percentile per-packet one-way delay: 21.235 ms

Loss rate: 0.03%

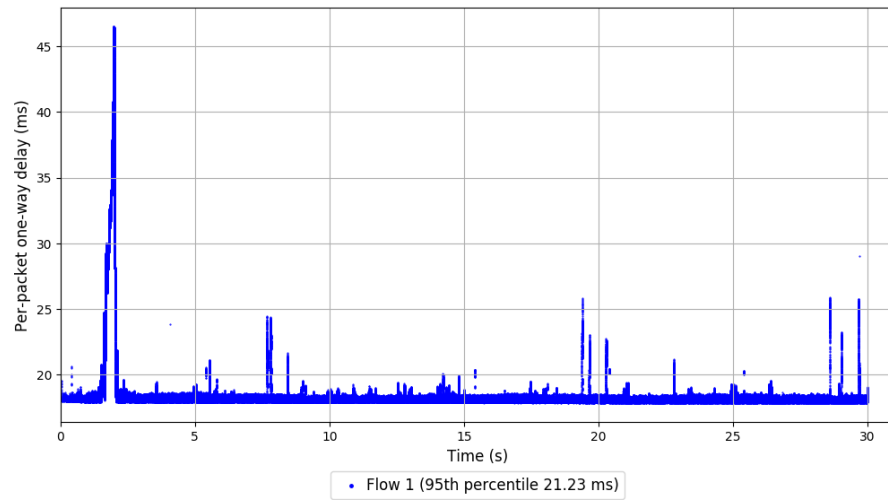
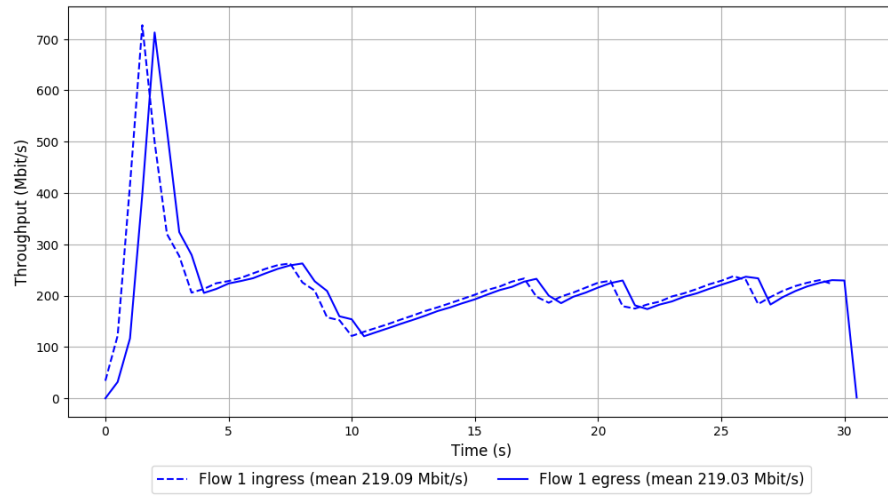
-- Flow 1:

Average throughput: 219.03 Mbit/s

95th percentile per-packet one-way delay: 21.235 ms

Loss rate: 0.03%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 23:29:03

End at: 2018-08-27 23:29:33

Local clock offset: 0.538 ms

Remote clock offset: 4.653 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 254.14 Mbit/s

95th percentile per-packet one-way delay: 19.352 ms

Loss rate: 0.01%

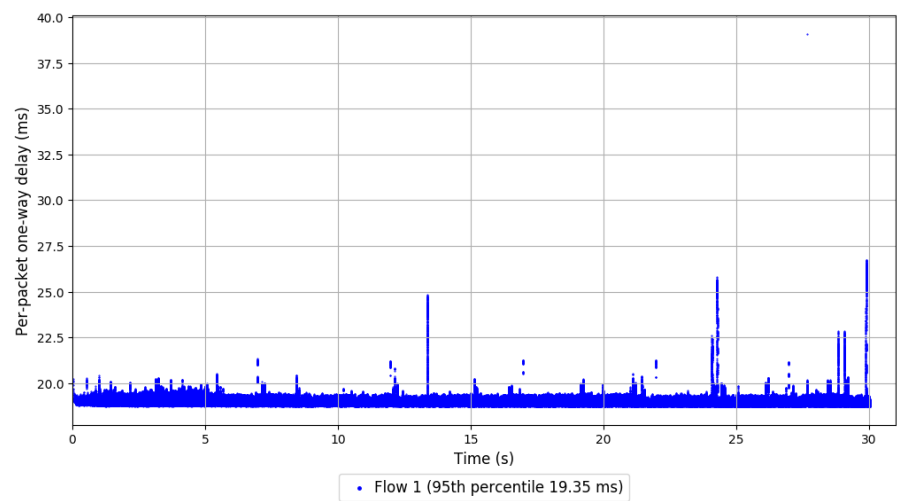
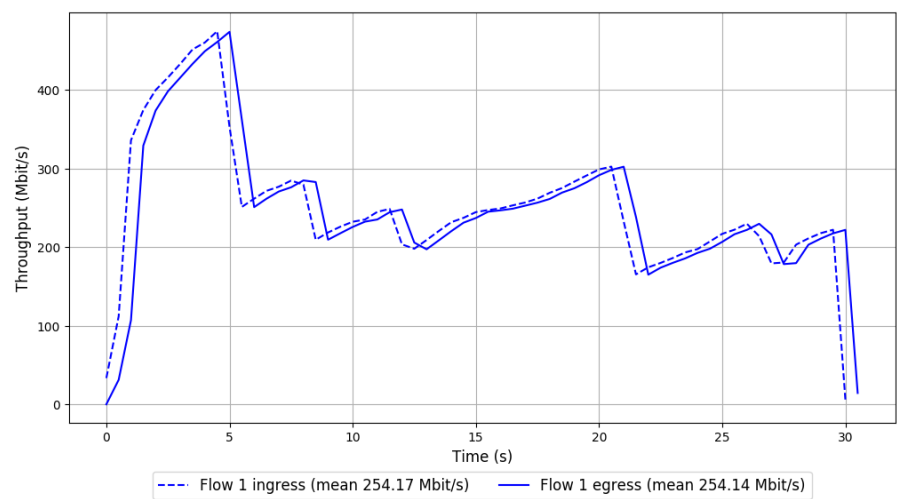
-- Flow 1:

Average throughput: 254.14 Mbit/s

95th percentile per-packet one-way delay: 19.352 ms

Loss rate: 0.01%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 23:53:33

End at: 2018-08-27 23:54:03

Local clock offset: 0.164 ms

Remote clock offset: 0.069 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.41 Mbit/s

95th percentile per-packet one-way delay: 19.397 ms

Loss rate: 0.01%

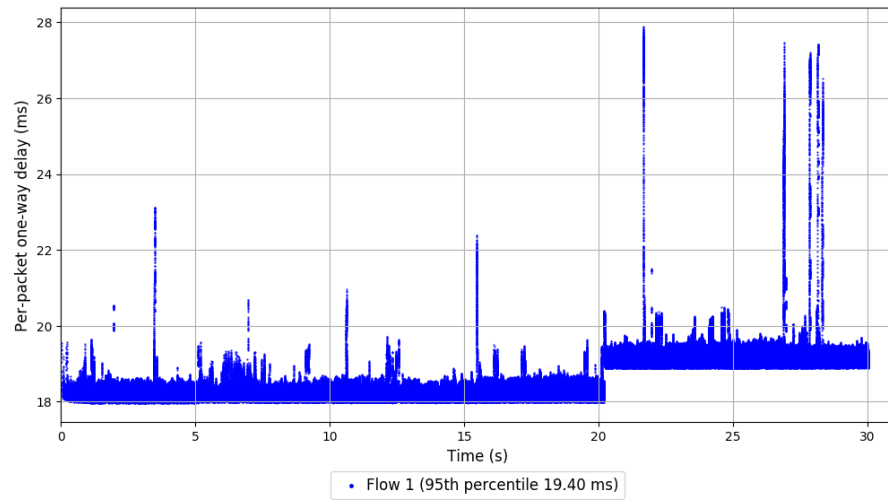
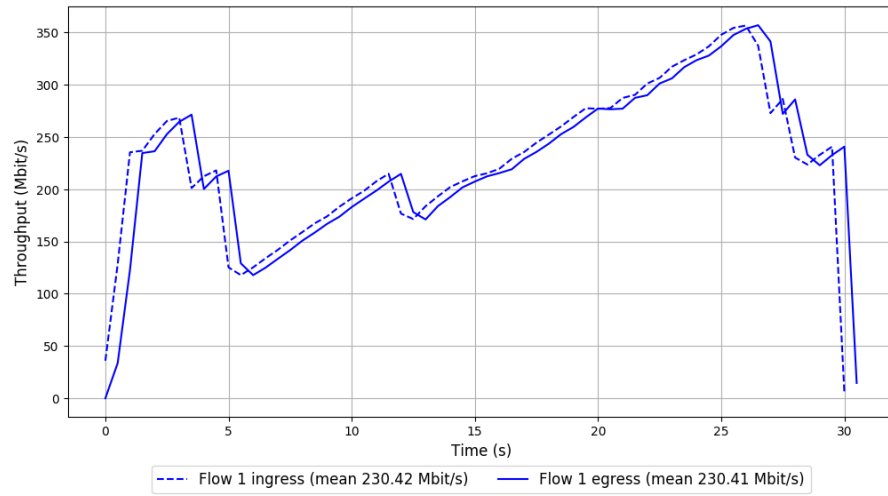
-- Flow 1:

Average throughput: 230.41 Mbit/s

95th percentile per-packet one-way delay: 19.397 ms

Loss rate: 0.01%

Run 8: Report of TCP Cubic — Data Link

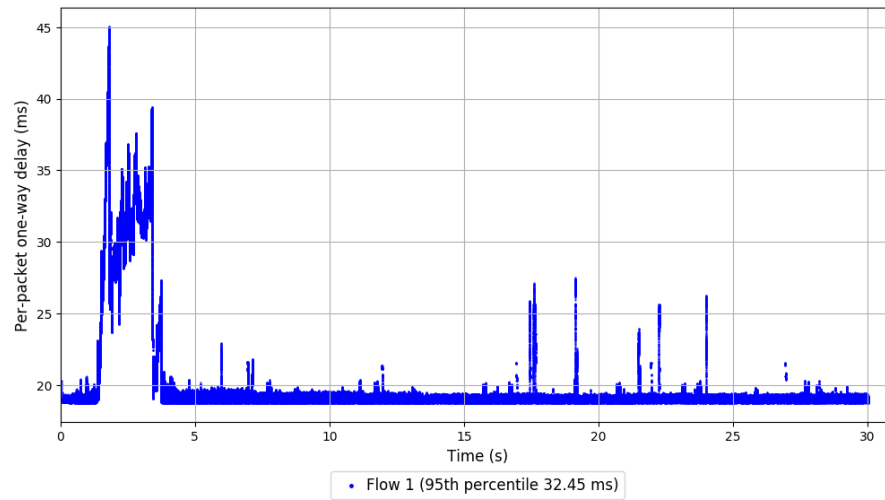
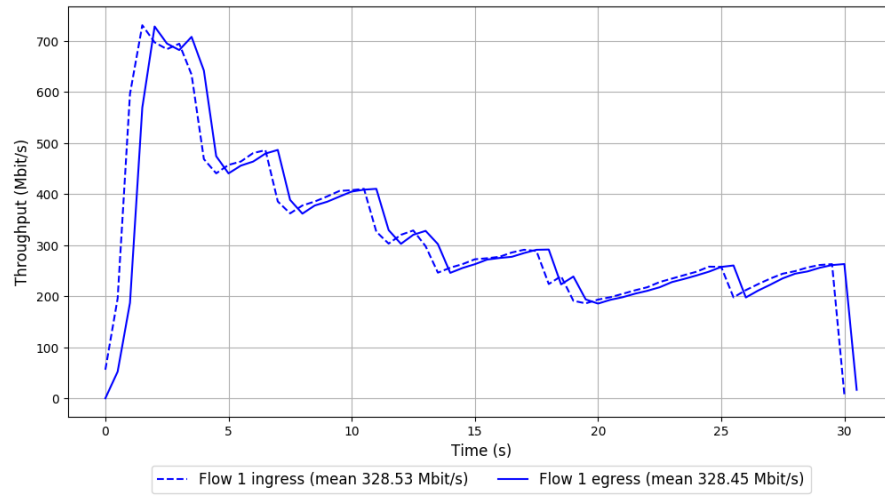


Run 9: Statistics of TCP Cubic

Start at: 2018-08-28 00:18:07
End at: 2018-08-28 00:18:37
Local clock offset: 0.027 ms
Remote clock offset: -0.779 ms

Below is generated by plot.py at 2018-08-28 01:08:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 328.45 Mbit/s
95th percentile per-packet one-way delay: 32.453 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 328.45 Mbit/s
95th percentile per-packet one-way delay: 32.453 ms
Loss rate: 0.03%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-28 00:42:37

End at: 2018-08-28 00:43:07

Local clock offset: -2.299 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-08-28 01:08:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.28 Mbit/s

95th percentile per-packet one-way delay: 19.085 ms

Loss rate: 0.03%

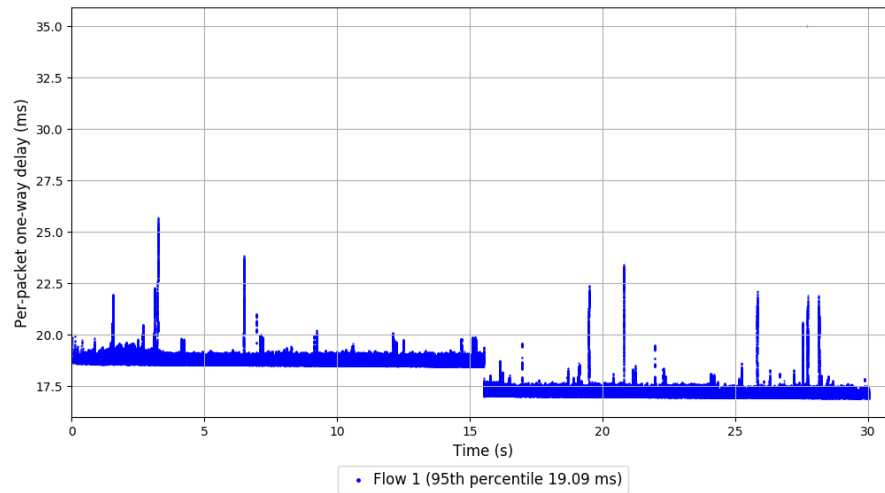
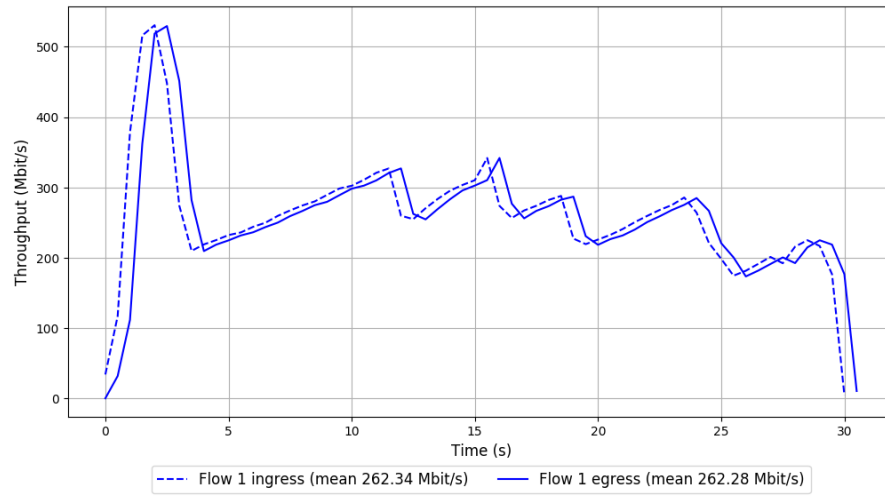
-- Flow 1:

Average throughput: 262.28 Mbit/s

95th percentile per-packet one-way delay: 19.085 ms

Loss rate: 0.03%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-08-27 20:54:56

End at: 2018-08-27 20:55:26

Local clock offset: -4.304 ms

Remote clock offset: 3.346 ms

Below is generated by plot.py at 2018-08-28 01:16:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 840.75 Mbit/s

95th percentile per-packet one-way delay: 89.722 ms

Loss rate: 4.68%

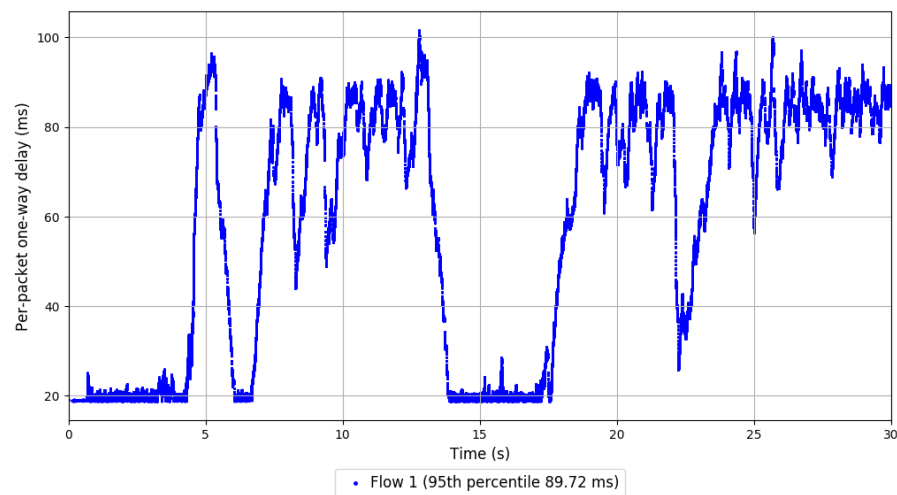
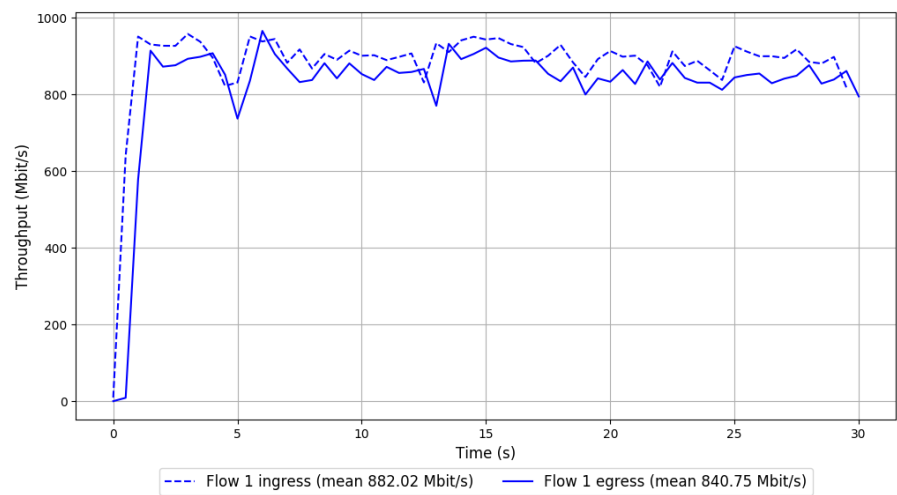
-- Flow 1:

Average throughput: 840.75 Mbit/s

95th percentile per-packet one-way delay: 89.722 ms

Loss rate: 4.68%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-27 21:19:27

End at: 2018-08-27 21:19:57

Local clock offset: -0.349 ms

Remote clock offset: 1.429 ms

Below is generated by plot.py at 2018-08-28 01:16:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 840.95 Mbit/s

95th percentile per-packet one-way delay: 88.287 ms

Loss rate: 4.07%

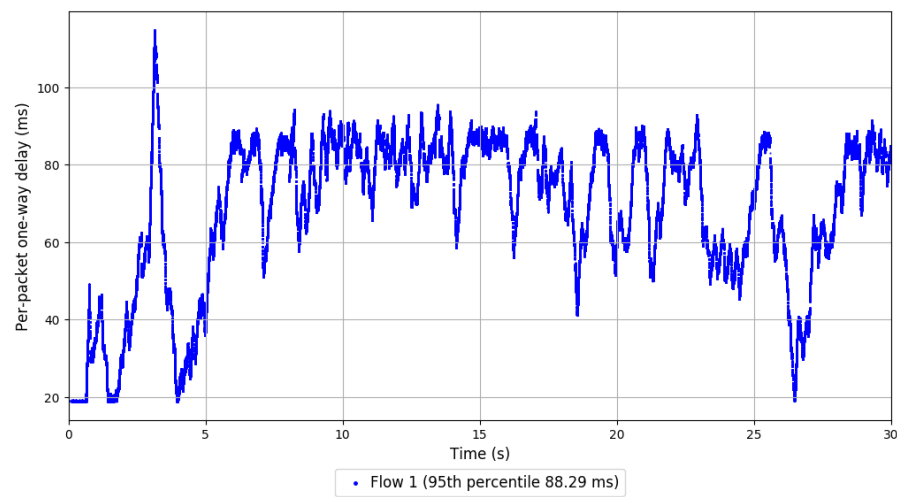
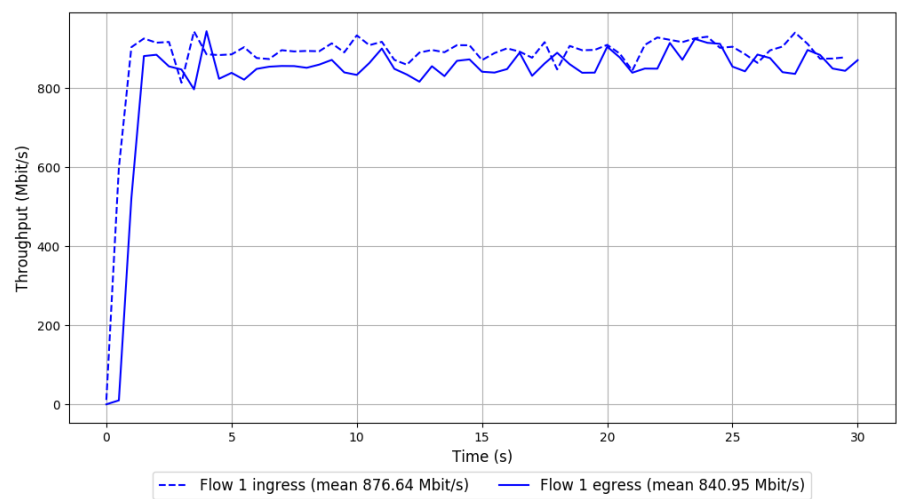
-- Flow 1:

Average throughput: 840.95 Mbit/s

95th percentile per-packet one-way delay: 88.287 ms

Loss rate: 4.07%

Run 2: Report of FillP — Data Link

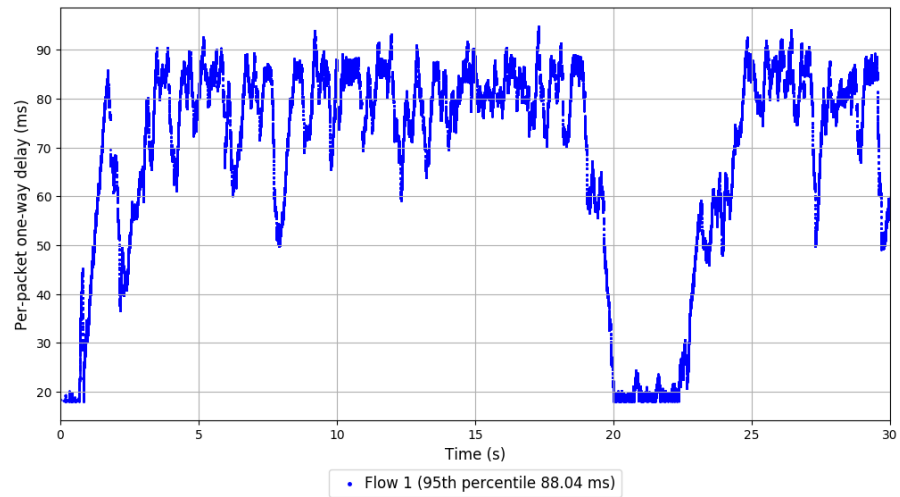
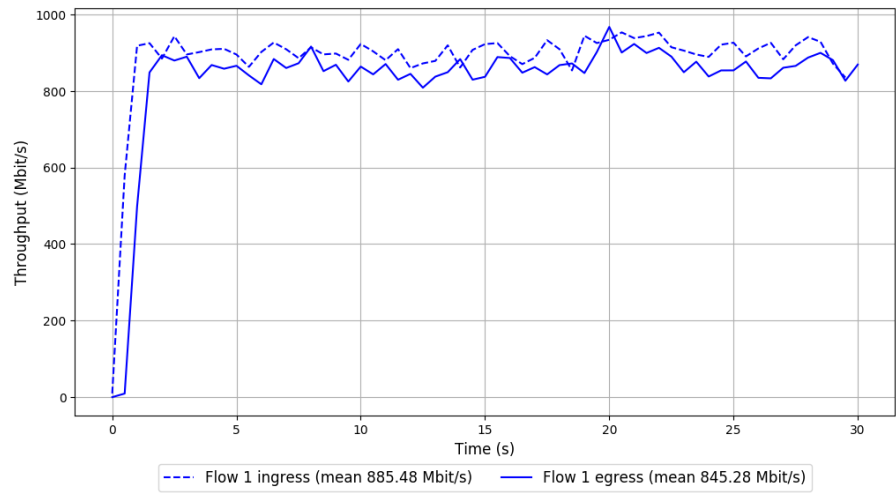


Run 3: Statistics of FillP

Start at: 2018-08-27 21:44:02
End at: 2018-08-27 21:44:32
Local clock offset: 0.324 ms
Remote clock offset: -1.582 ms

Below is generated by plot.py at 2018-08-28 01:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 845.28 Mbit/s
95th percentile per-packet one-way delay: 88.039 ms
Loss rate: 4.54%
-- Flow 1:
Average throughput: 845.28 Mbit/s
95th percentile per-packet one-way delay: 88.039 ms
Loss rate: 4.54%

Run 3: Report of FillP — Data Link

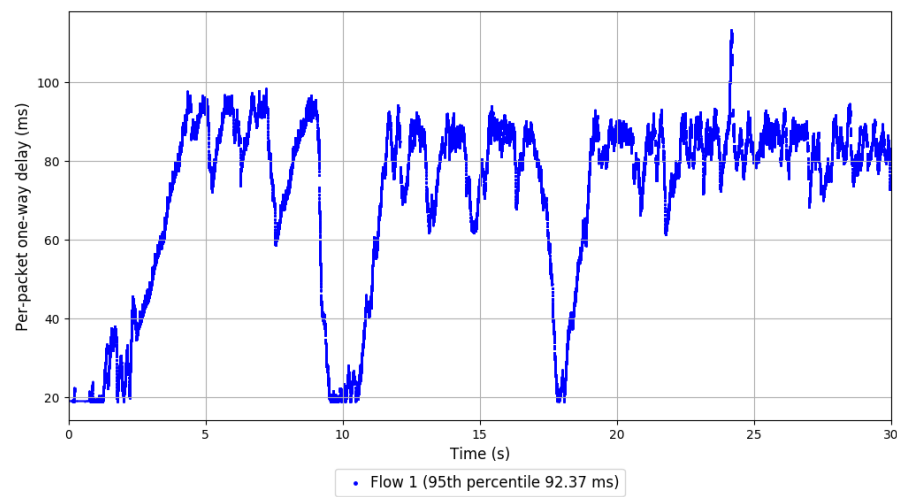
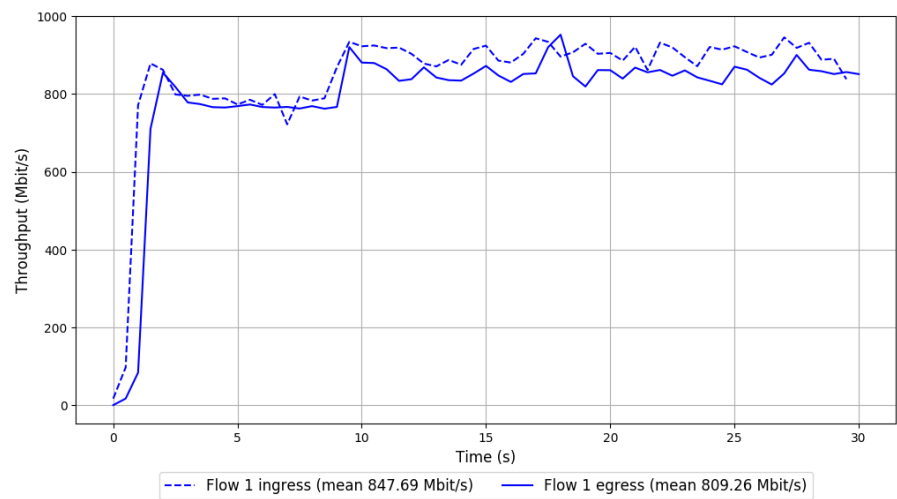


Run 4: Statistics of FillP

Start at: 2018-08-27 22:08:35
End at: 2018-08-27 22:09:05
Local clock offset: 0.304 ms
Remote clock offset: -0.563 ms

Below is generated by plot.py at 2018-08-28 01:18:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 809.26 Mbit/s
95th percentile per-packet one-way delay: 92.366 ms
Loss rate: 4.53%
-- Flow 1:
Average throughput: 809.26 Mbit/s
95th percentile per-packet one-way delay: 92.366 ms
Loss rate: 4.53%

Run 4: Report of FillP — Data Link

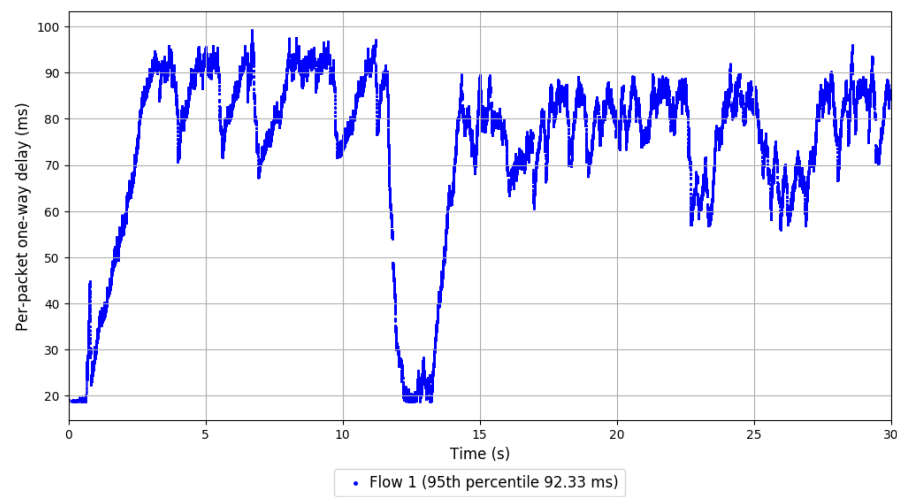
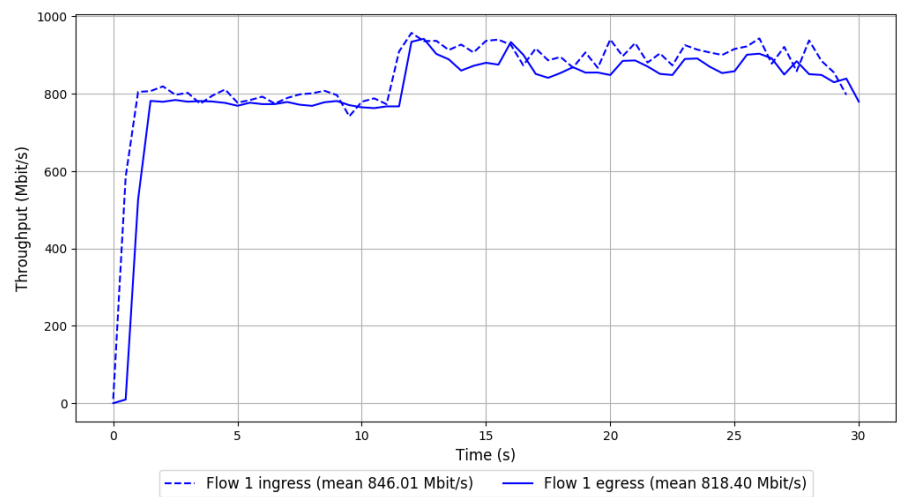


Run 5: Statistics of FillP

Start at: 2018-08-27 22:32:59
End at: 2018-08-27 22:33:29
Local clock offset: 0.339 ms
Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-08-28 01:18:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 818.40 Mbit/s
95th percentile per-packet one-way delay: 92.330 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 818.40 Mbit/s
95th percentile per-packet one-way delay: 92.330 ms
Loss rate: 3.26%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-27 22:57:31

End at: 2018-08-27 22:58:01

Local clock offset: 0.421 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-08-28 01:19:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.00 Mbit/s

95th percentile per-packet one-way delay: 91.985 ms

Loss rate: 4.62%

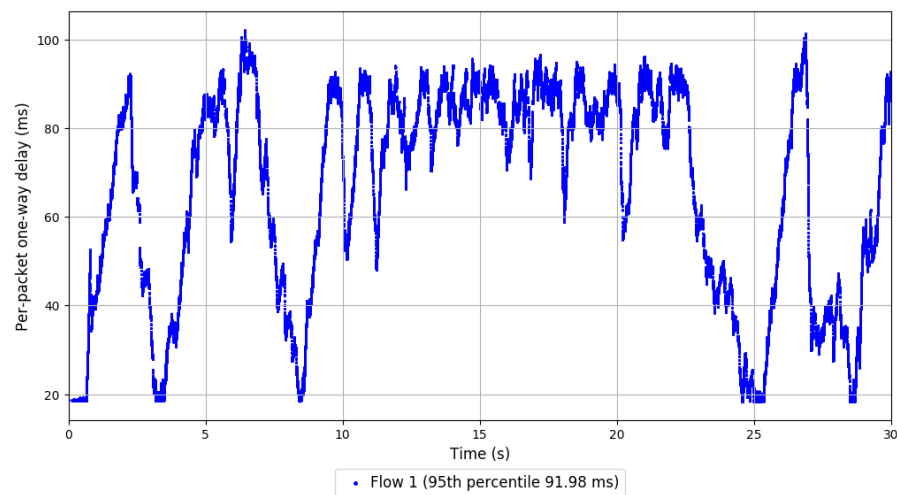
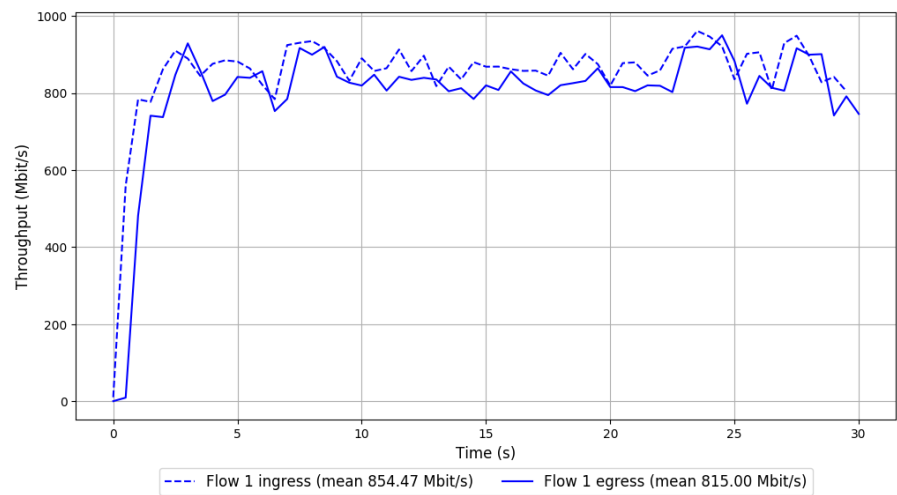
-- Flow 1:

Average throughput: 815.00 Mbit/s

95th percentile per-packet one-way delay: 91.985 ms

Loss rate: 4.62%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-27 23:22:03

End at: 2018-08-27 23:22:33

Local clock offset: 0.5 ms

Remote clock offset: 4.177 ms

Below is generated by plot.py at 2018-08-28 01:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 804.43 Mbit/s

95th percentile per-packet one-way delay: 93.046 ms

Loss rate: 2.82%

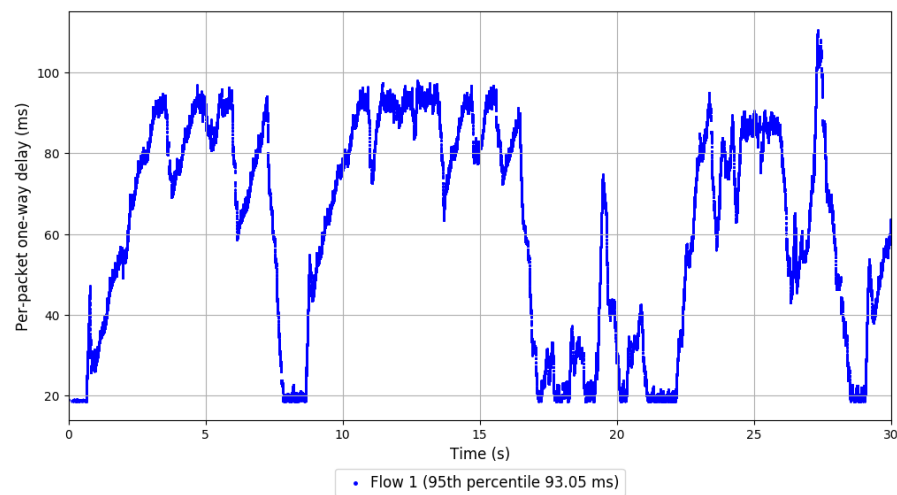
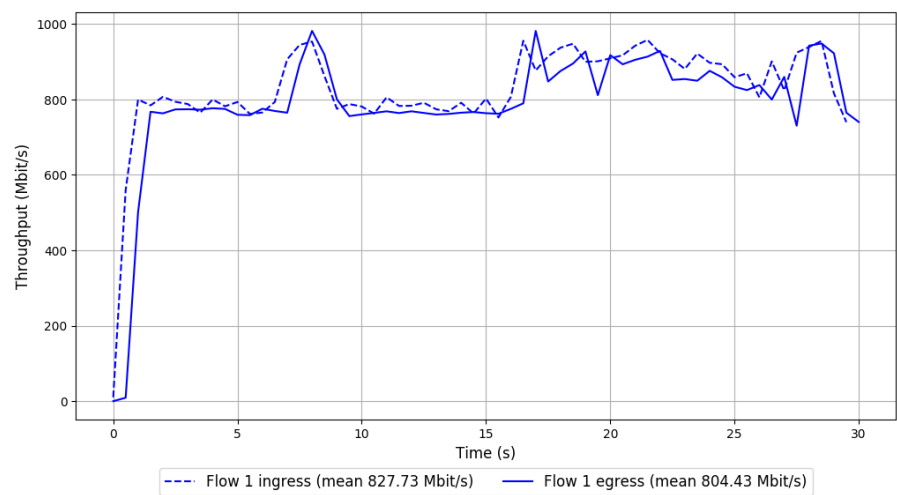
-- Flow 1:

Average throughput: 804.43 Mbit/s

95th percentile per-packet one-way delay: 93.046 ms

Loss rate: 2.82%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-27 23:46:34

End at: 2018-08-27 23:47:04

Local clock offset: 0.142 ms

Remote clock offset: 0.567 ms

Below is generated by plot.py at 2018-08-28 01:20:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 783.50 Mbit/s

95th percentile per-packet one-way delay: 93.197 ms

Loss rate: 2.50%

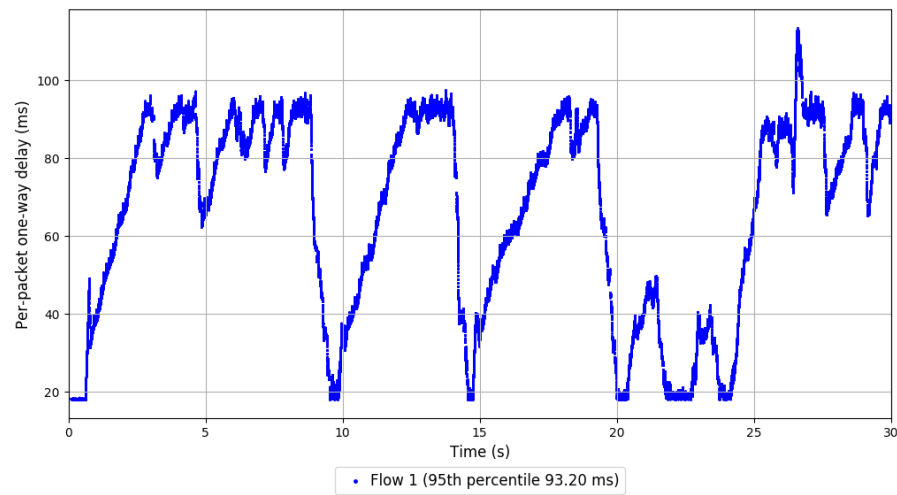
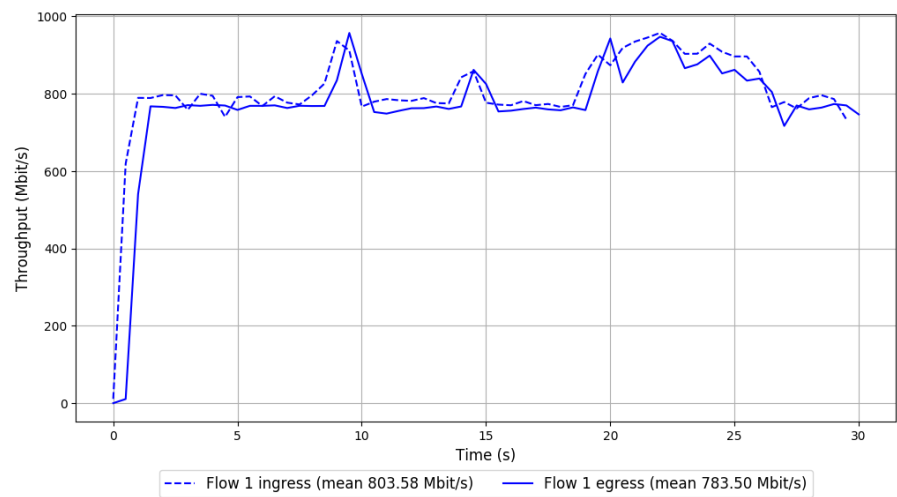
-- Flow 1:

Average throughput: 783.50 Mbit/s

95th percentile per-packet one-way delay: 93.197 ms

Loss rate: 2.50%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-08-28 00:11:07

End at: 2018-08-28 00:11:37

Local clock offset: 0.138 ms

Remote clock offset: -0.65 ms

Below is generated by plot.py at 2018-08-28 01:27:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 815.19 Mbit/s

95th percentile per-packet one-way delay: 93.103 ms

Loss rate: 4.29%

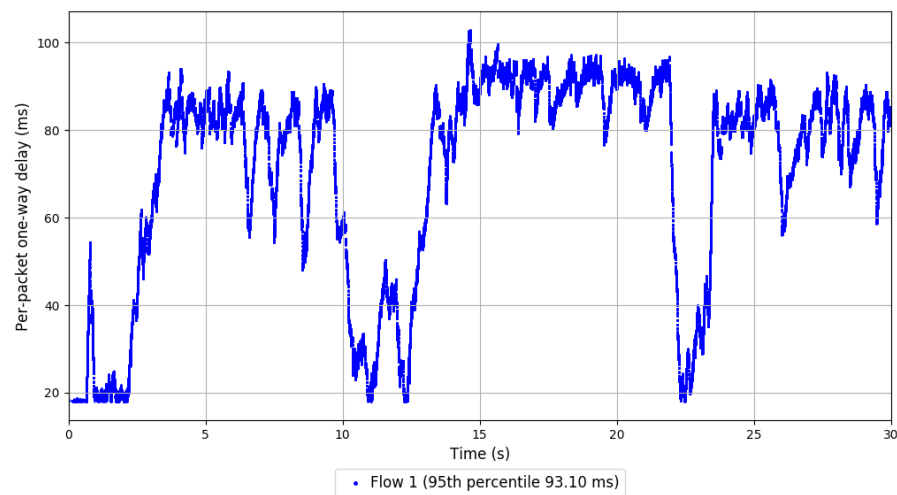
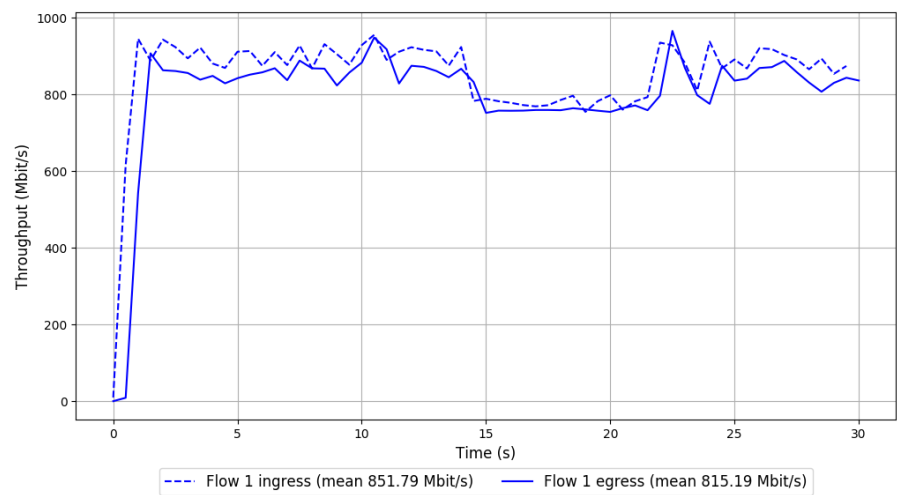
-- Flow 1:

Average throughput: 815.19 Mbit/s

95th percentile per-packet one-way delay: 93.103 ms

Loss rate: 4.29%

Run 9: Report of FillP — Data Link

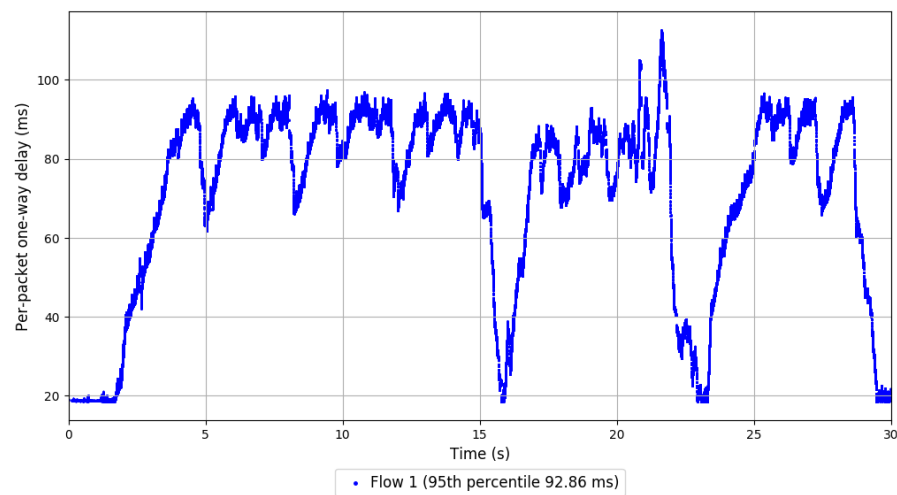
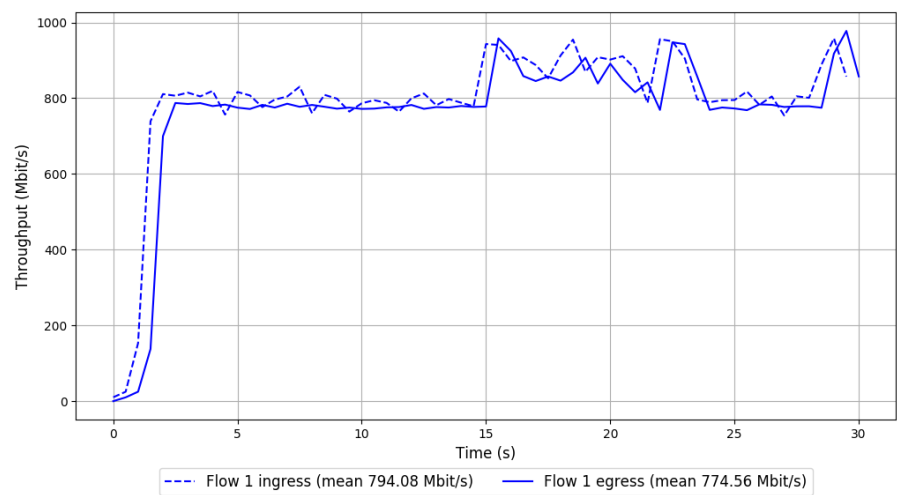


Run 10: Statistics of FillP

Start at: 2018-08-28 00:35:39
End at: 2018-08-28 00:36:09
Local clock offset: -0.963 ms
Remote clock offset: -1.141 ms

Below is generated by plot.py at 2018-08-28 01:27:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 774.56 Mbit/s
95th percentile per-packet one-way delay: 92.862 ms
Loss rate: 2.46%
-- Flow 1:
Average throughput: 774.56 Mbit/s
95th percentile per-packet one-way delay: 92.862 ms
Loss rate: 2.46%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 20:53:15

End at: 2018-08-27 20:53:45

Local clock offset: -4.16 ms

Remote clock offset: 3.224 ms

Below is generated by plot.py at 2018-08-28 01:30:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 839.83 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 5.07%

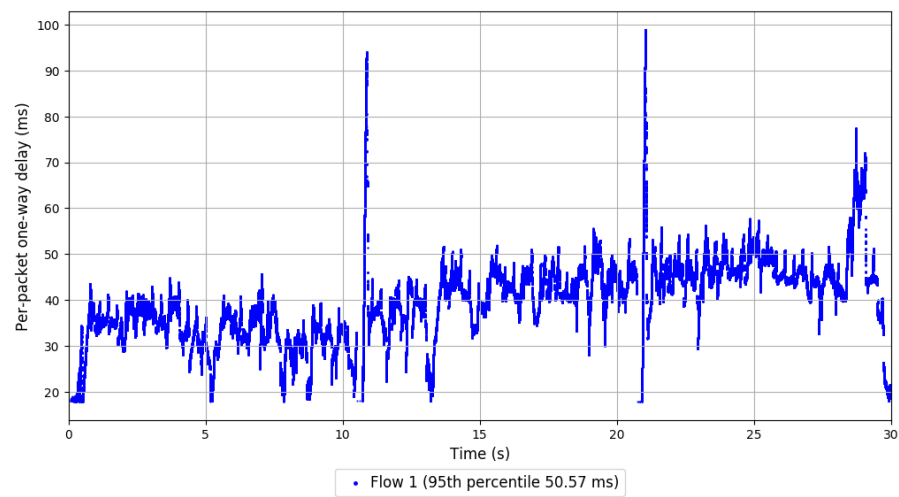
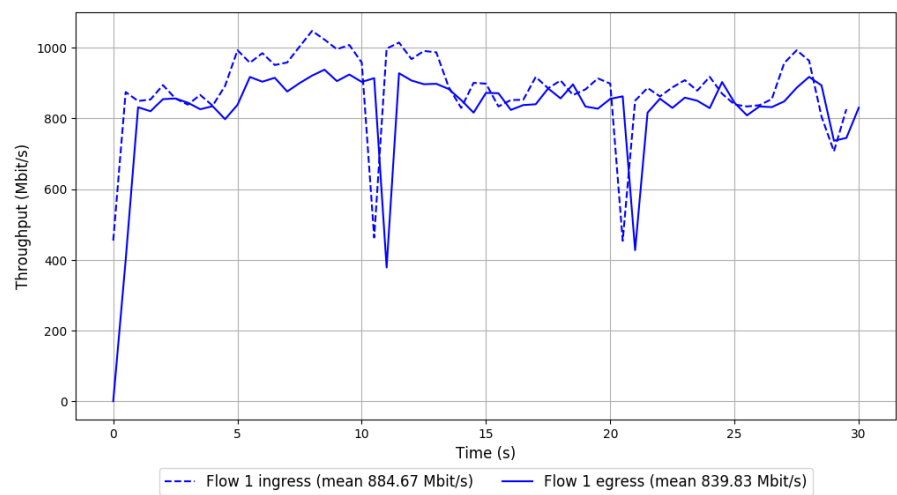
-- Flow 1:

Average throughput: 839.83 Mbit/s

95th percentile per-packet one-way delay: 50.566 ms

Loss rate: 5.07%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 21:17:46

End at: 2018-08-27 21:18:16

Local clock offset: -0.466 ms

Remote clock offset: 1.891 ms

Below is generated by plot.py at 2018-08-28 01:30:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 853.21 Mbit/s

95th percentile per-packet one-way delay: 54.349 ms

Loss rate: 5.71%

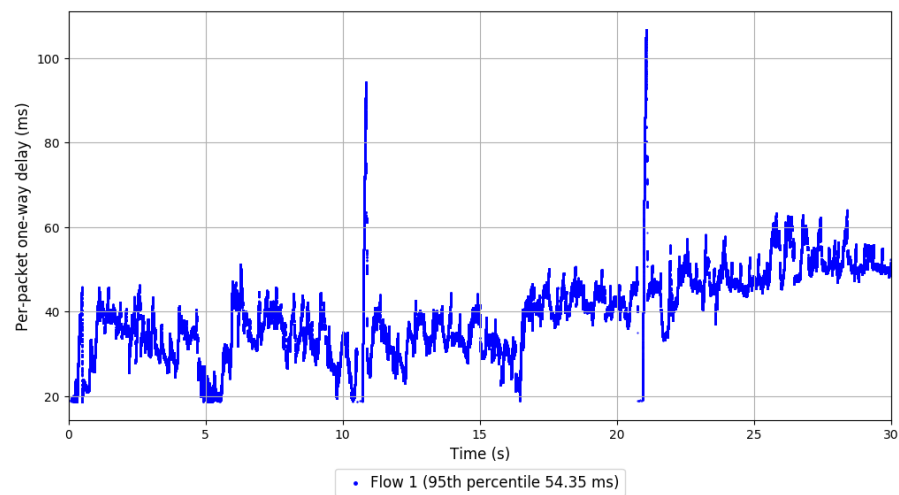
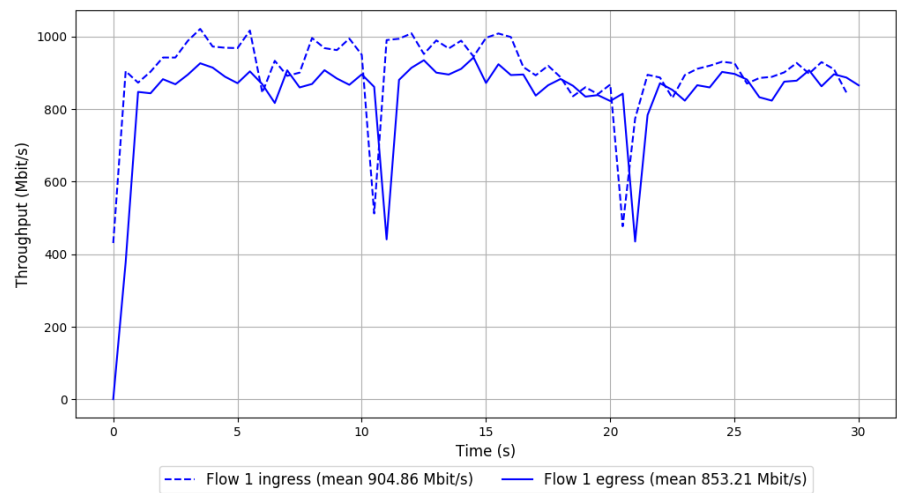
-- Flow 1:

Average throughput: 853.21 Mbit/s

95th percentile per-packet one-way delay: 54.349 ms

Loss rate: 5.71%

Run 2: Report of FillP-Sheep — Data Link

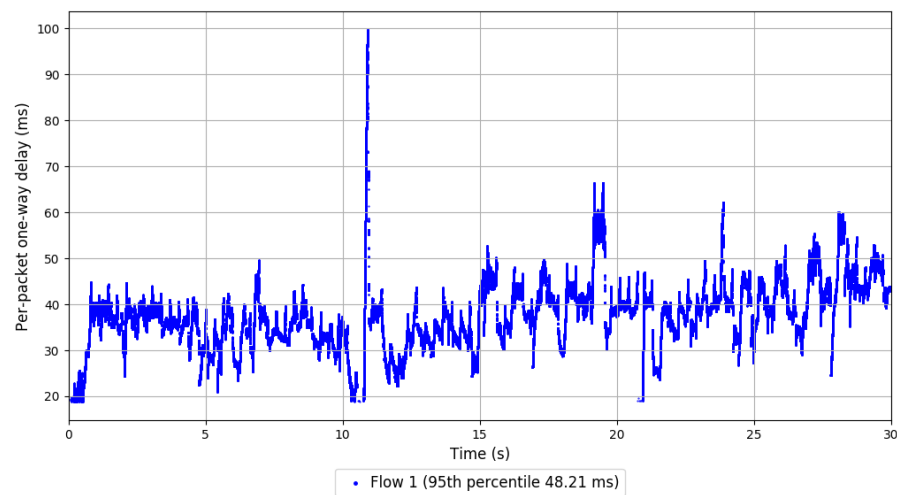
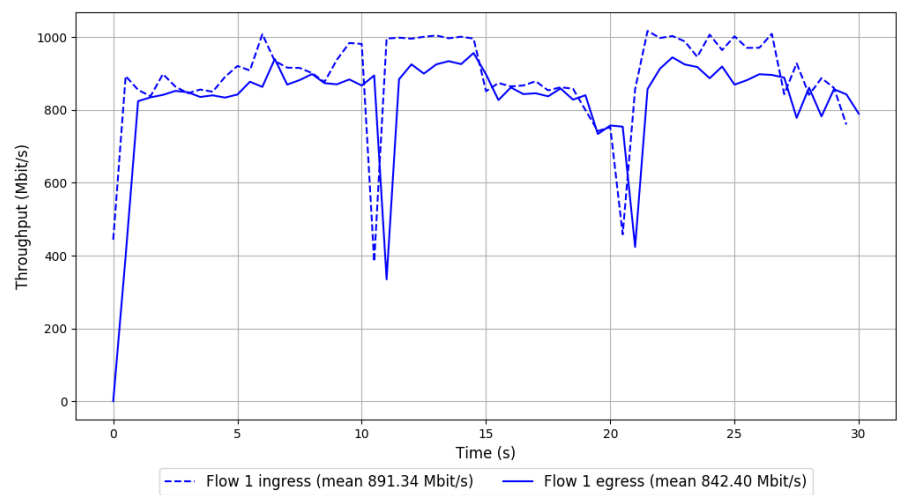


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 21:42:21
End at: 2018-08-27 21:42:51
Local clock offset: 0.33 ms
Remote clock offset: -1.562 ms

Below is generated by plot.py at 2018-08-28 01:30:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 842.40 Mbit/s
95th percentile per-packet one-way delay: 48.211 ms
Loss rate: 5.49%
-- Flow 1:
Average throughput: 842.40 Mbit/s
95th percentile per-packet one-way delay: 48.211 ms
Loss rate: 5.49%

Run 3: Report of FillP-Sheep — Data Link

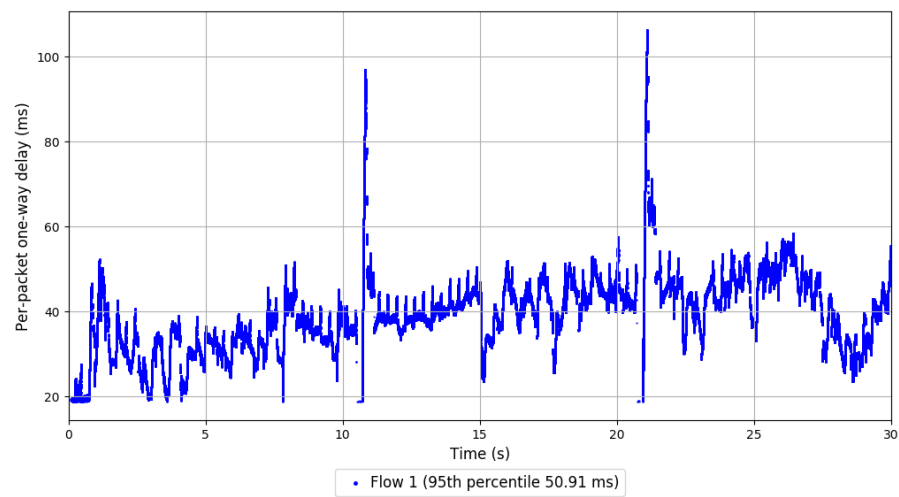
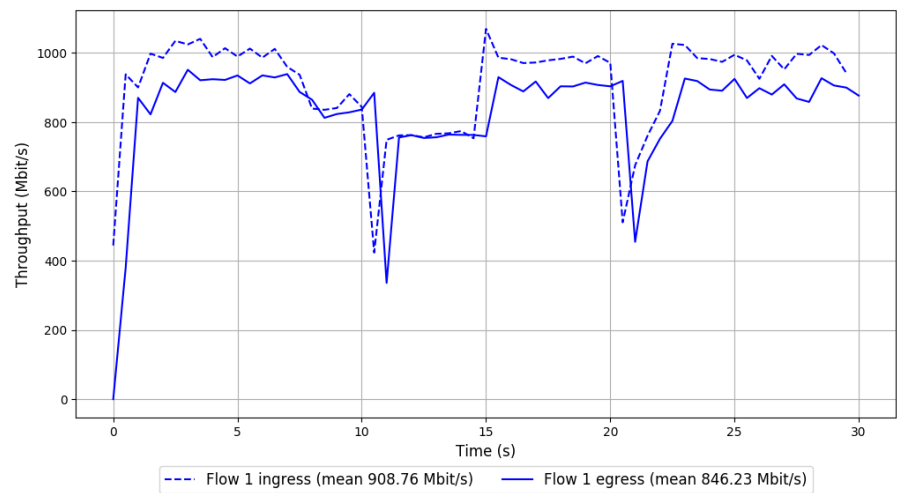


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-27 22:06:53
End at: 2018-08-27 22:07:23
Local clock offset: 0.395 ms
Remote clock offset: -0.582 ms

Below is generated by plot.py at 2018-08-28 01:31:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 846.23 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 6.88%
-- Flow 1:
Average throughput: 846.23 Mbit/s
95th percentile per-packet one-way delay: 50.915 ms
Loss rate: 6.88%

Run 4: Report of FillP-Sheep — Data Link

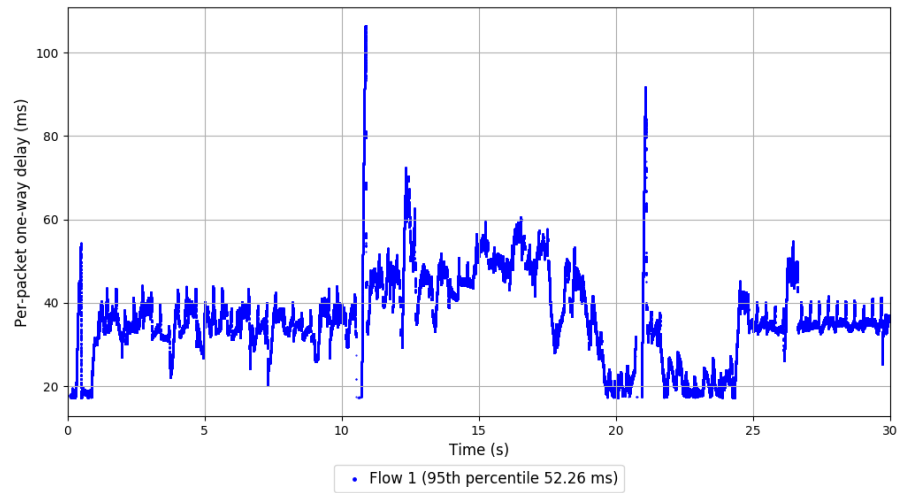
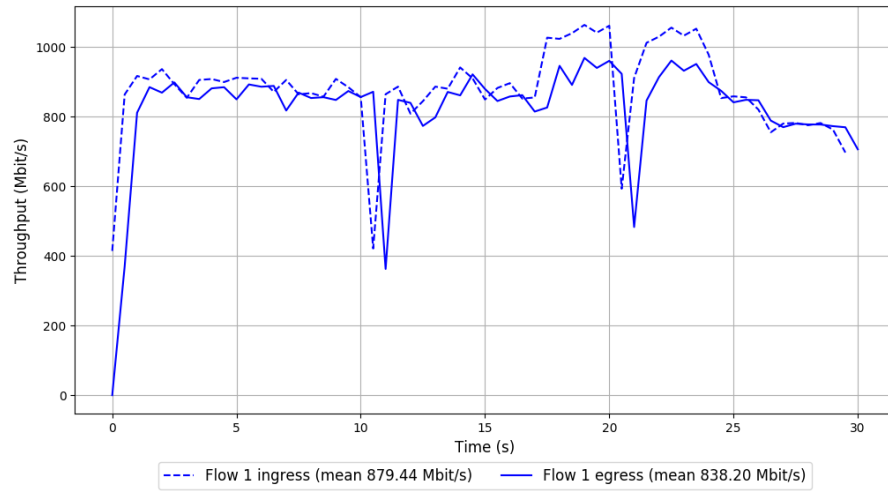


Run 5: Statistics of FillP-Sheep

Start at: 2018-08-27 22:31:18
End at: 2018-08-27 22:31:48
Local clock offset: 0.443 ms
Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-08-28 01:31:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 838.20 Mbit/s
95th percentile per-packet one-way delay: 52.264 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 838.20 Mbit/s
95th percentile per-packet one-way delay: 52.264 ms
Loss rate: 4.69%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 22:55:52

End at: 2018-08-27 22:56:22

Local clock offset: 0.418 ms

Remote clock offset: -0.393 ms

Below is generated by plot.py at 2018-08-28 01:31:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 819.43 Mbit/s

95th percentile per-packet one-way delay: 65.116 ms

Loss rate: 3.13%

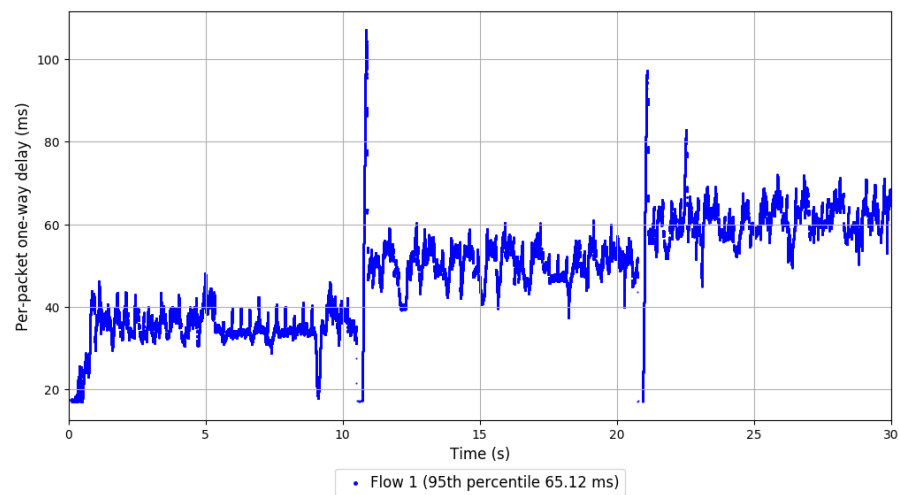
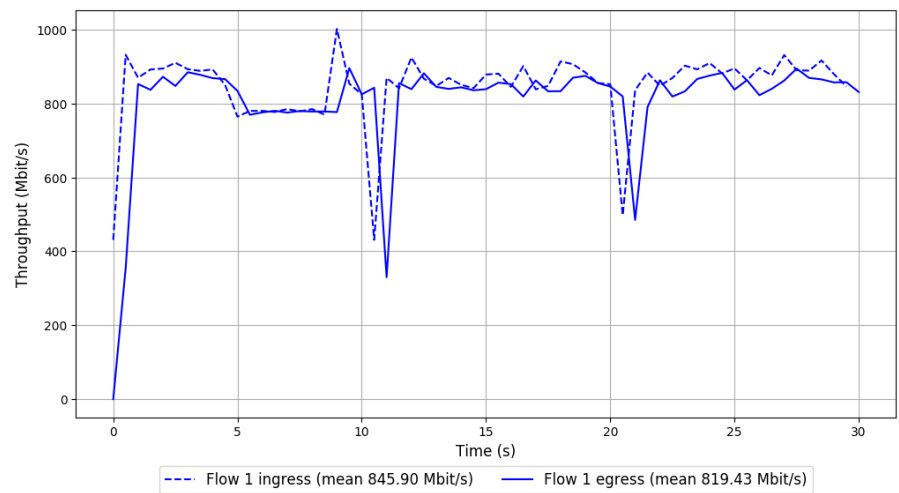
-- Flow 1:

Average throughput: 819.43 Mbit/s

95th percentile per-packet one-way delay: 65.116 ms

Loss rate: 3.13%

Run 6: Report of FillP-Sheep — Data Link

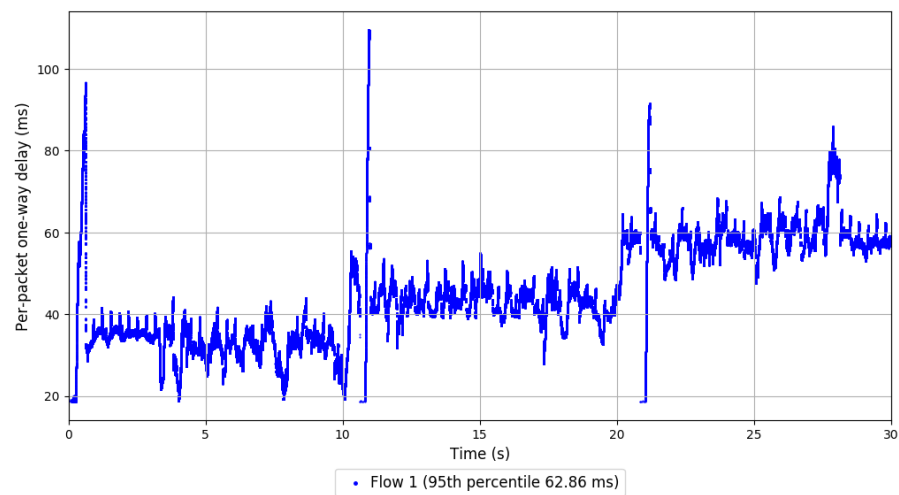
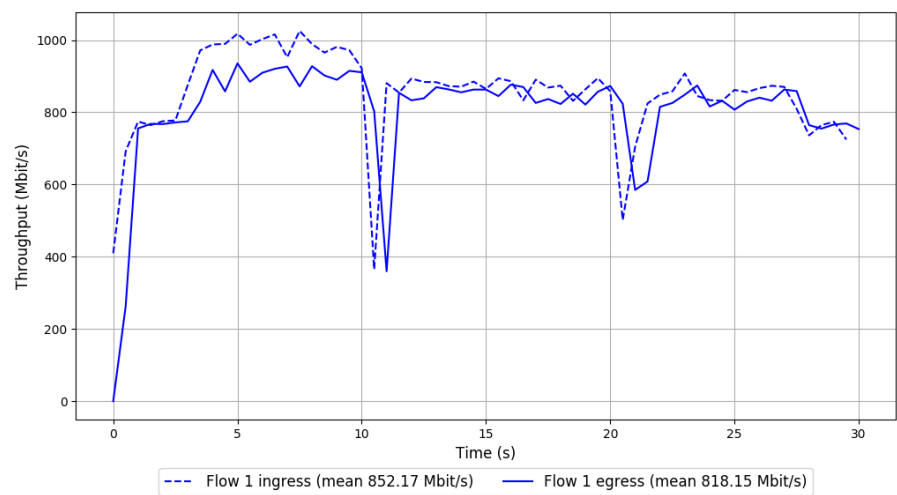


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 23:20:23
End at: 2018-08-27 23:20:53
Local clock offset: 0.491 ms
Remote clock offset: 4.113 ms

Below is generated by plot.py at 2018-08-28 01:39:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 818.15 Mbit/s
95th percentile per-packet one-way delay: 62.856 ms
Loss rate: 3.99%
-- Flow 1:
Average throughput: 818.15 Mbit/s
95th percentile per-packet one-way delay: 62.856 ms
Loss rate: 3.99%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 23:44:54

End at: 2018-08-27 23:45:24

Local clock offset: 0.172 ms

Remote clock offset: 0.72 ms

Below is generated by plot.py at 2018-08-28 01:39:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 807.41 Mbit/s

95th percentile per-packet one-way delay: 65.906 ms

Loss rate: 2.71%

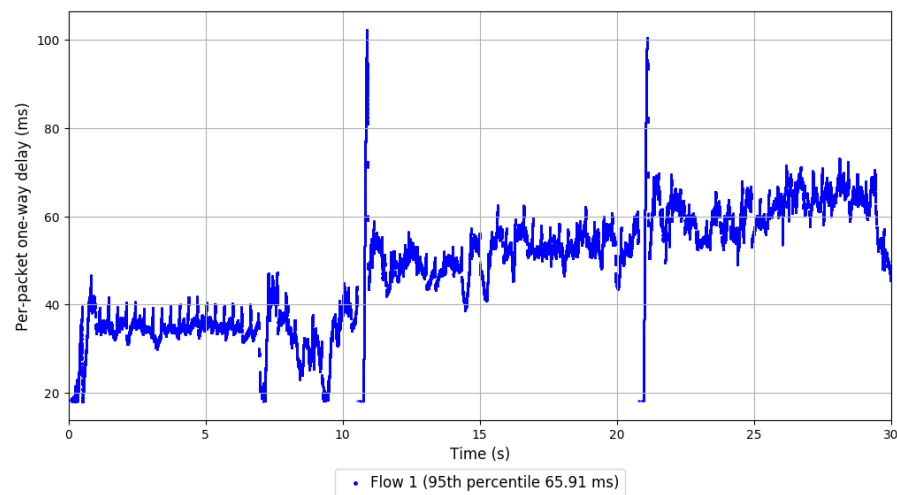
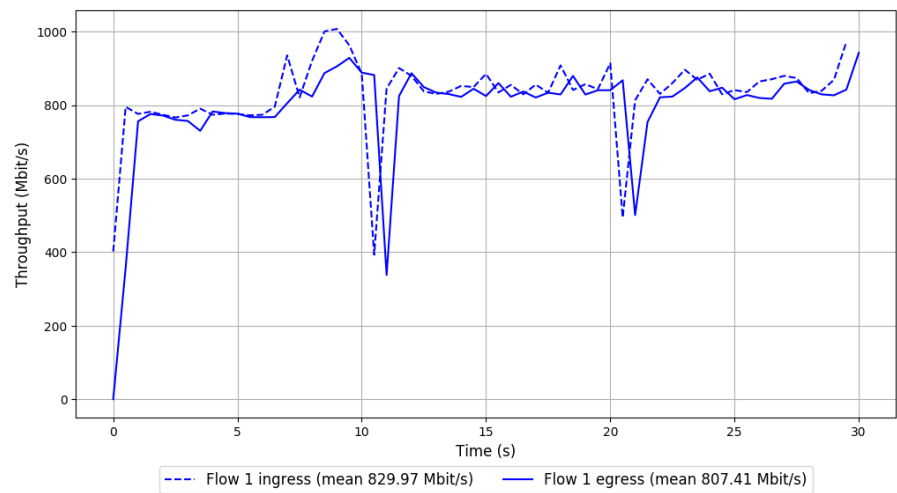
-- Flow 1:

Average throughput: 807.41 Mbit/s

95th percentile per-packet one-way delay: 65.906 ms

Loss rate: 2.71%

Run 8: Report of FillP-Sheep — Data Link



Run 9: Statistics of FillP-Sheep

Start at: 2018-08-28 00:09:26

End at: 2018-08-28 00:09:56

Local clock offset: 0.121 ms

Remote clock offset: -0.561 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.04 Mbit/s

95th percentile per-packet one-way delay: 59.577 ms

Loss rate: 5.57%

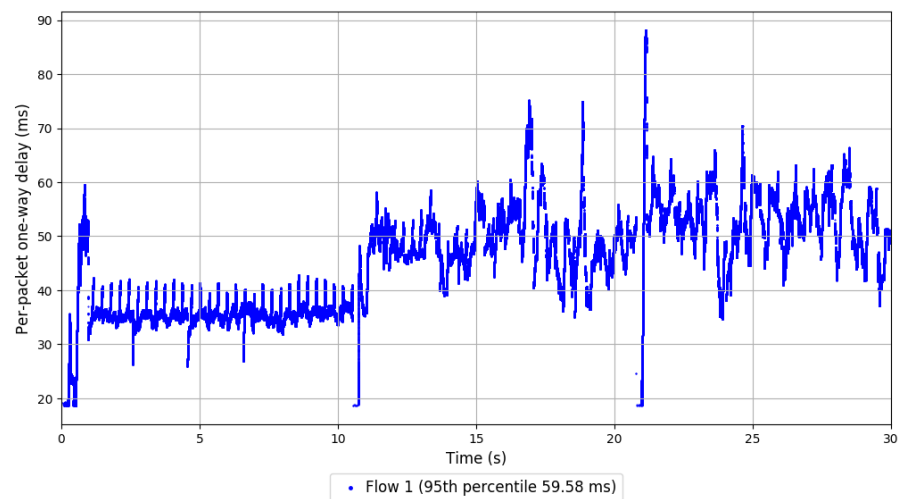
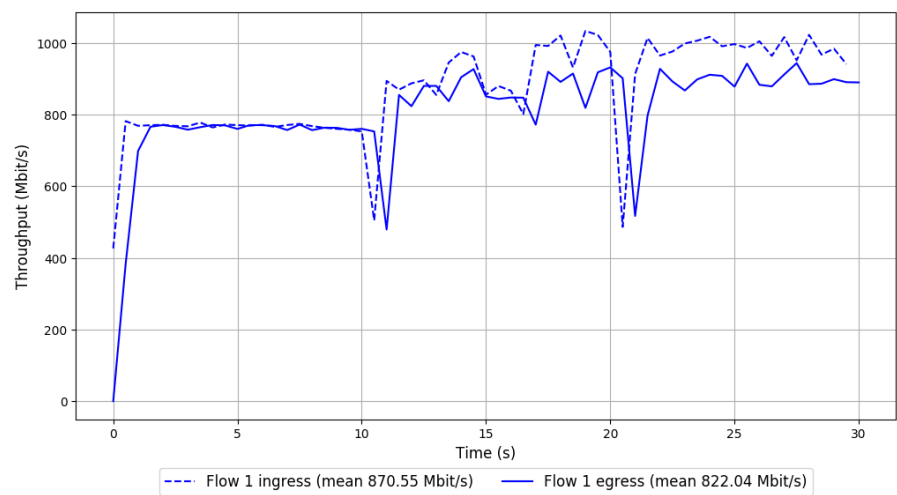
-- Flow 1:

Average throughput: 822.04 Mbit/s

95th percentile per-packet one-way delay: 59.577 ms

Loss rate: 5.57%

Run 9: Report of FillP-Sheep — Data Link

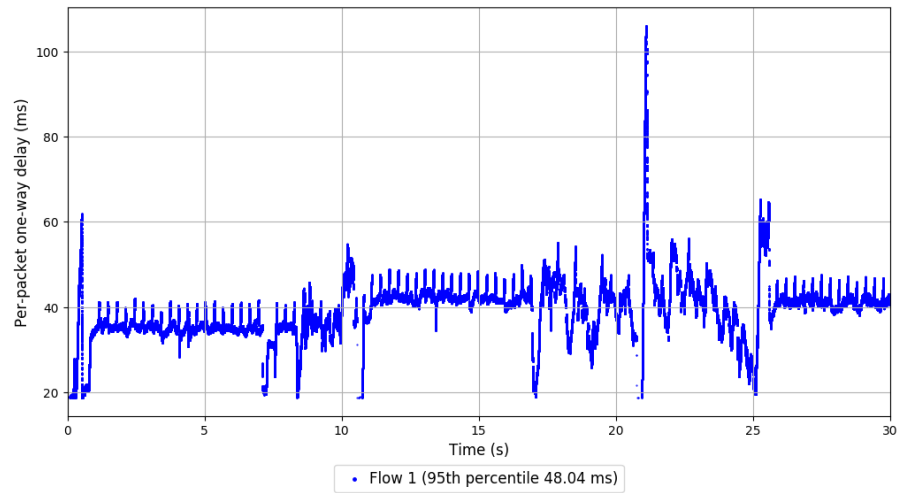
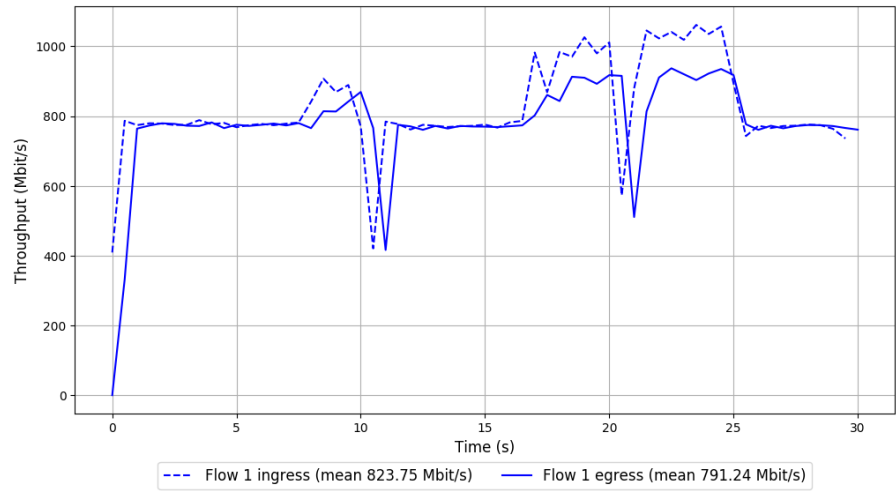


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-28 00:33:59
End at: 2018-08-28 00:34:29
Local clock offset: -0.632 ms
Remote clock offset: -1.192 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 791.24 Mbit/s
95th percentile per-packet one-way delay: 48.044 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 791.24 Mbit/s
95th percentile per-packet one-way delay: 48.044 ms
Loss rate: 3.95%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-08-27 20:56:36

End at: 2018-08-27 20:57:06

Local clock offset: -4.423 ms

Remote clock offset: 3.295 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.12 Mbit/s

95th percentile per-packet one-way delay: 20.706 ms

Loss rate: 0.00%

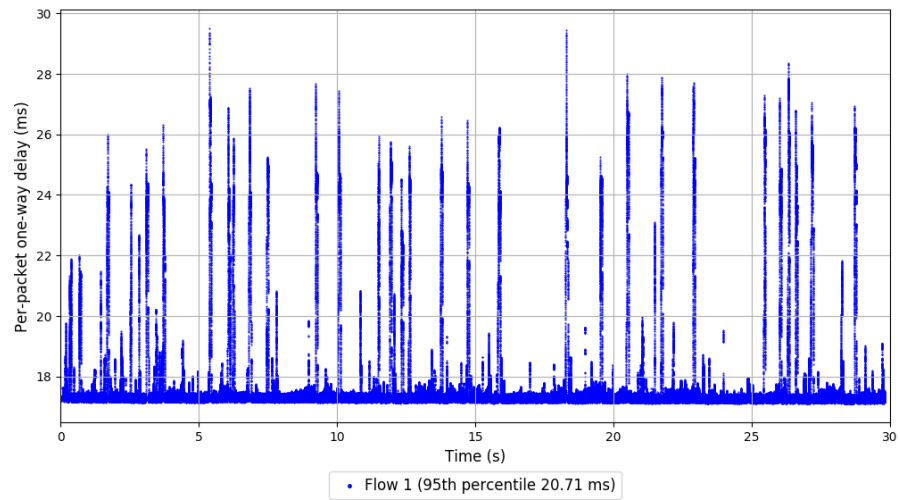
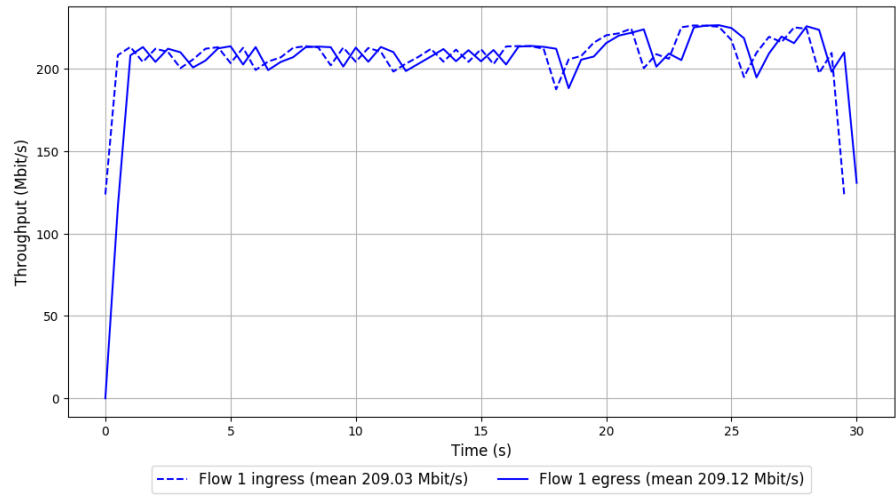
-- Flow 1:

Average throughput: 209.12 Mbit/s

95th percentile per-packet one-way delay: 20.706 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-27 21:21:07

End at: 2018-08-27 21:21:37

Local clock offset: -0.29 ms

Remote clock offset: 1.031 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 23.389 ms

Loss rate: 0.01%

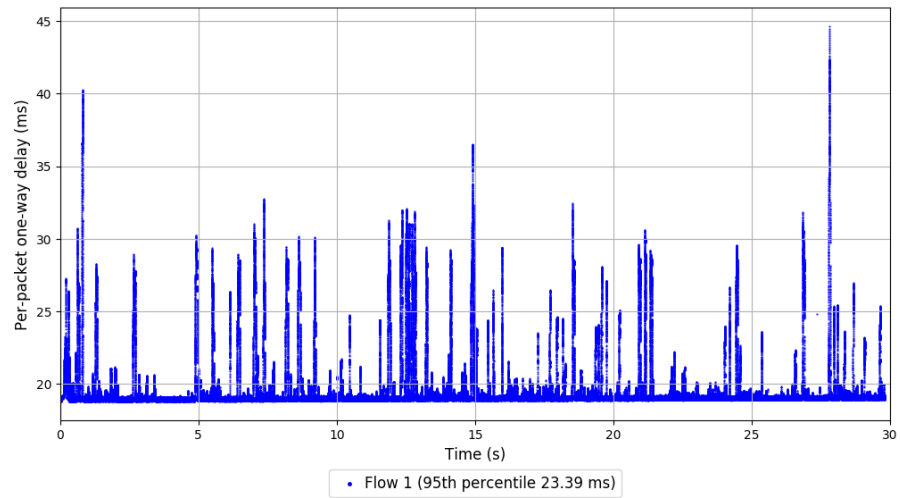
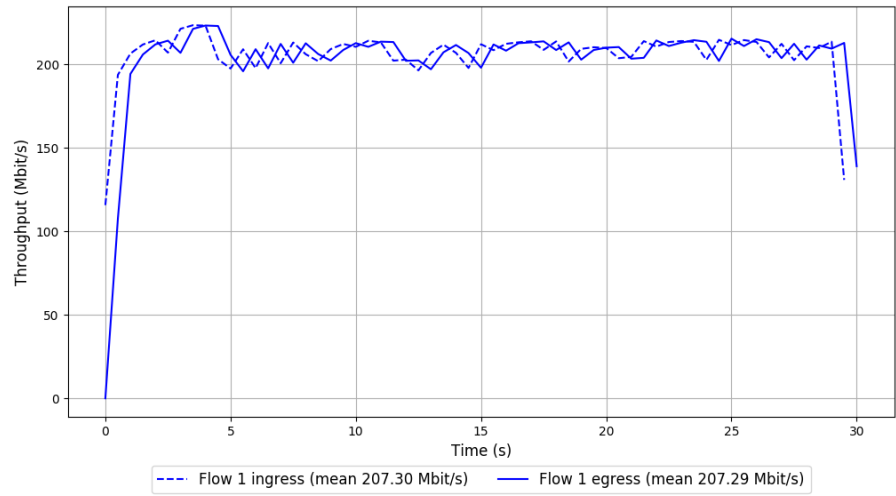
-- Flow 1:

Average throughput: 207.29 Mbit/s

95th percentile per-packet one-way delay: 23.389 ms

Loss rate: 0.01%

Run 2: Report of Indigo — Data Link

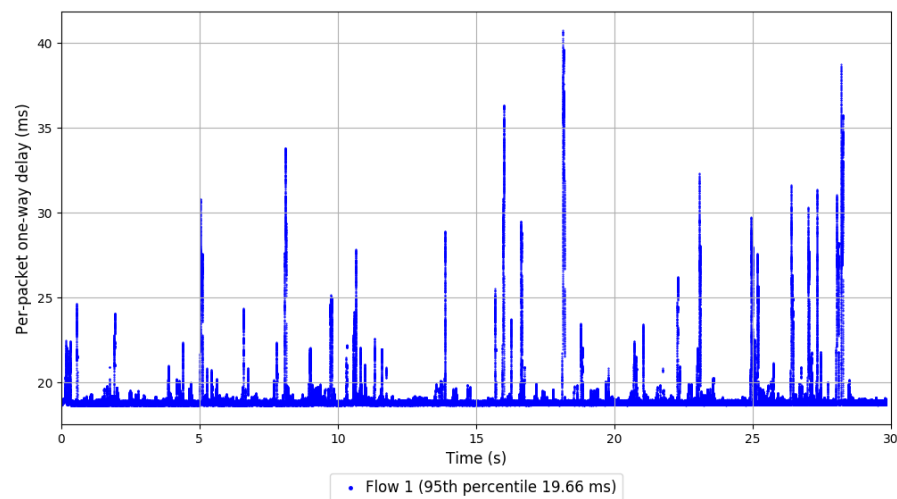
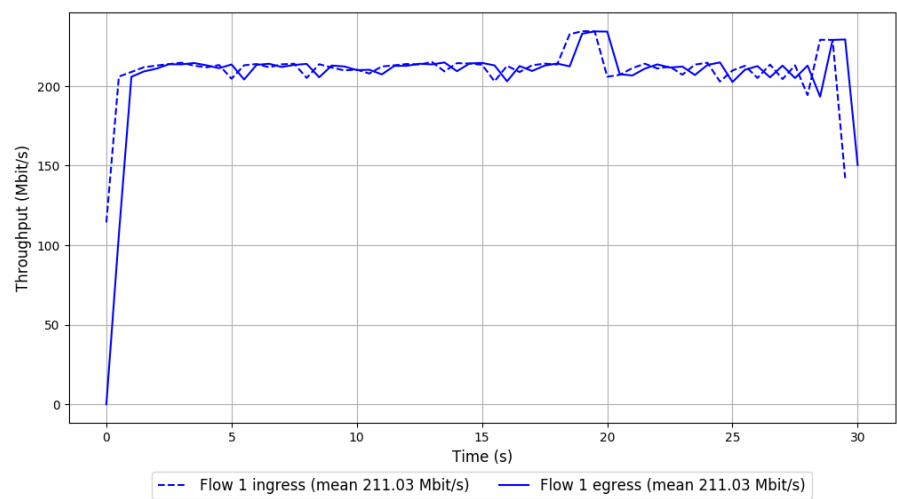


Run 3: Statistics of Indigo

Start at: 2018-08-27 21:45:42
End at: 2018-08-27 21:46:12
Local clock offset: 0.337 ms
Remote clock offset: -1.708 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 211.03 Mbit/s
95th percentile per-packet one-way delay: 19.657 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 211.03 Mbit/s
95th percentile per-packet one-way delay: 19.657 ms
Loss rate: 0.01%

Run 3: Report of Indigo — Data Link

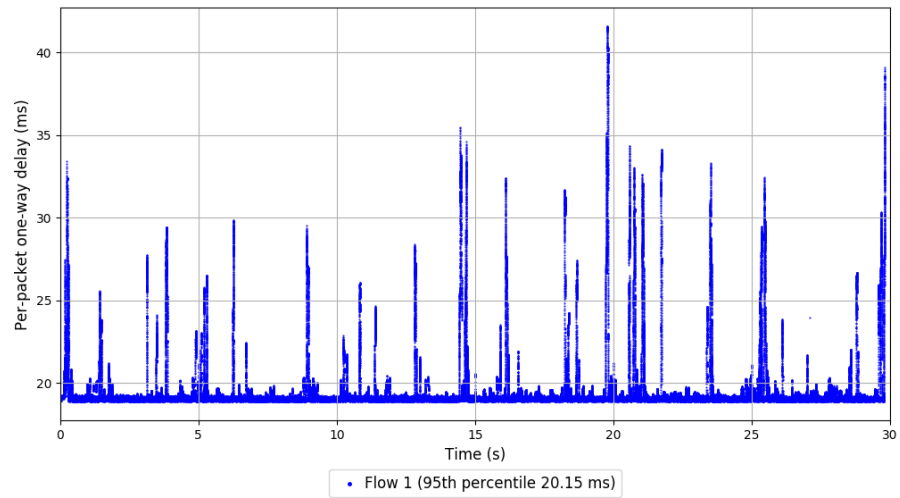
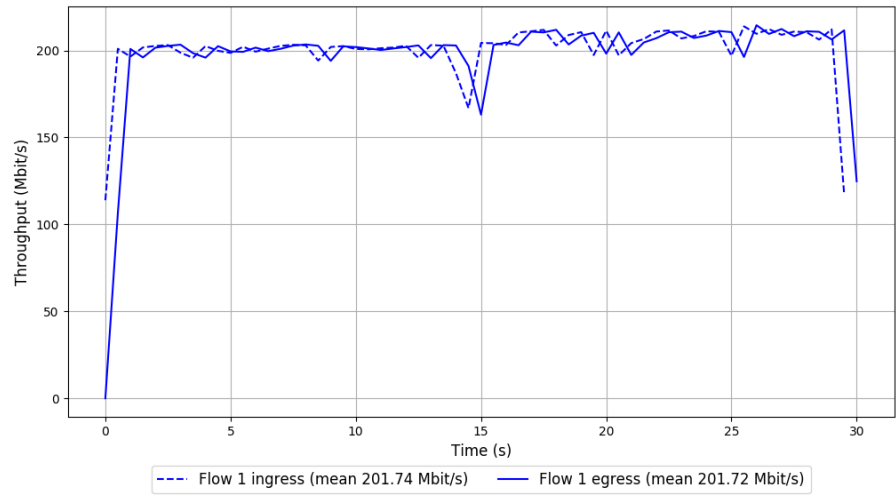


Run 4: Statistics of Indigo

Start at: 2018-08-27 22:10:15
End at: 2018-08-27 22:10:45
Local clock offset: 0.367 ms
Remote clock offset: -0.545 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 201.72 Mbit/s
95th percentile per-packet one-way delay: 20.154 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 201.72 Mbit/s
95th percentile per-packet one-way delay: 20.154 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-27 22:34:38

End at: 2018-08-27 22:35:08

Local clock offset: 0.415 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.63 Mbit/s

95th percentile per-packet one-way delay: 19.466 ms

Loss rate: 0.01%

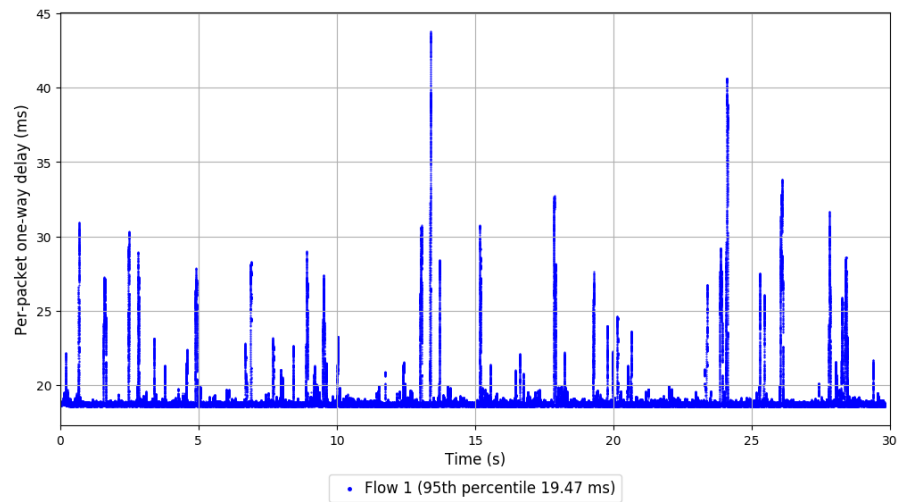
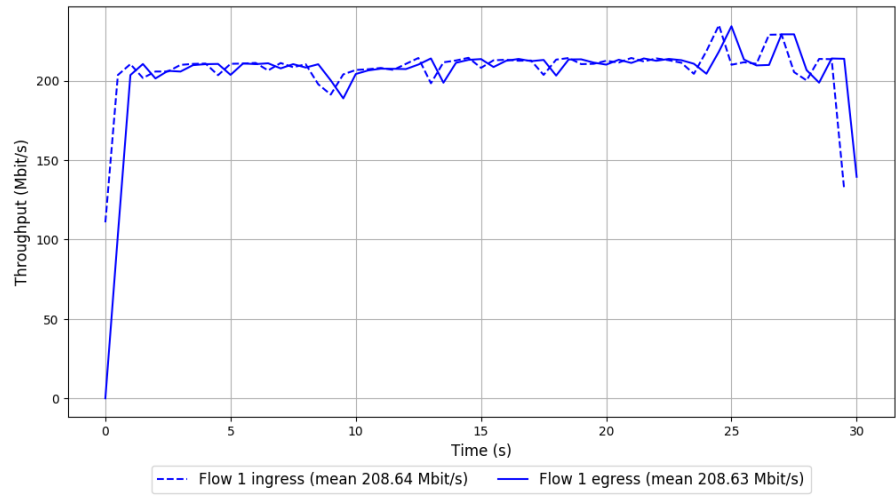
-- Flow 1:

Average throughput: 208.63 Mbit/s

95th percentile per-packet one-way delay: 19.466 ms

Loss rate: 0.01%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-27 22:59:11

End at: 2018-08-27 22:59:41

Local clock offset: 0.329 ms

Remote clock offset: 0.836 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 209.91 Mbit/s

95th percentile per-packet one-way delay: 19.317 ms

Loss rate: 0.01%

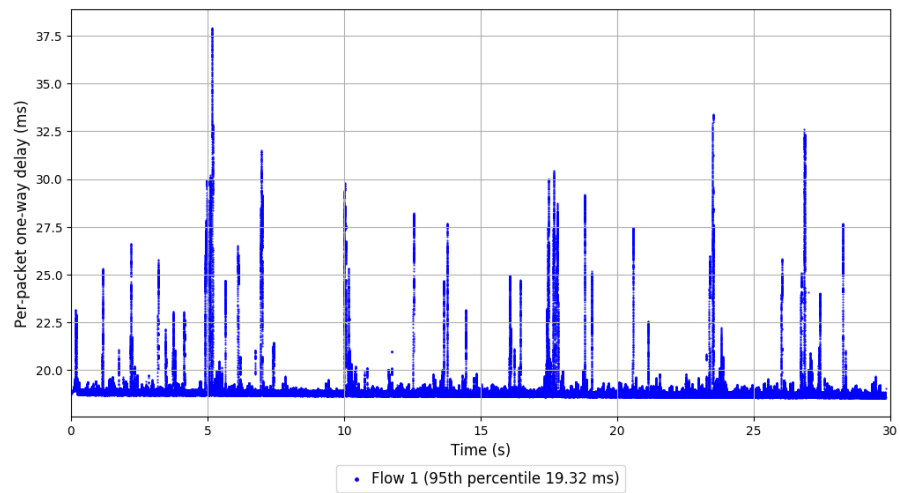
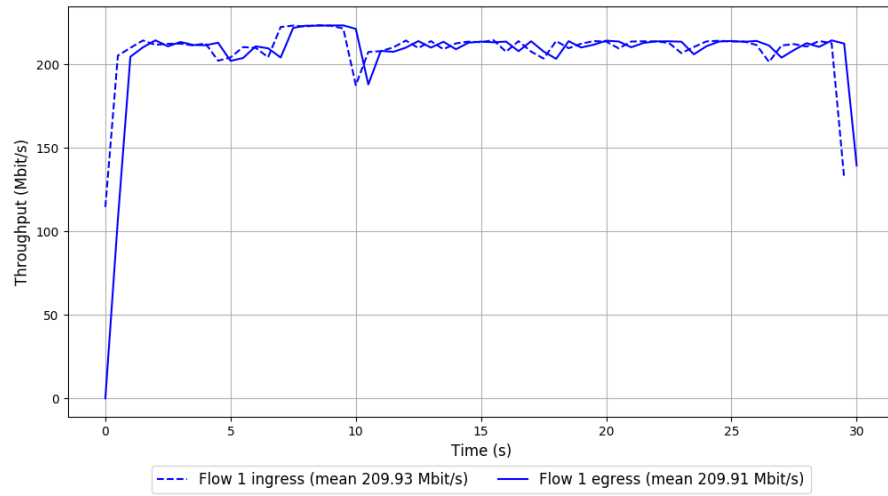
-- Flow 1:

Average throughput: 209.91 Mbit/s

95th percentile per-packet one-way delay: 19.317 ms

Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-27 23:23:42

End at: 2018-08-27 23:24:12

Local clock offset: 0.509 ms

Remote clock offset: 4.328 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.21 Mbit/s

95th percentile per-packet one-way delay: 19.108 ms

Loss rate: 0.00%

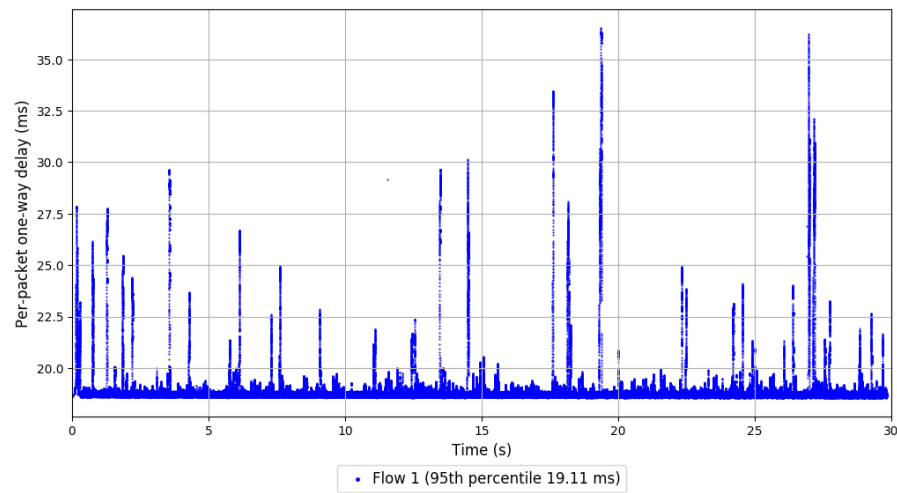
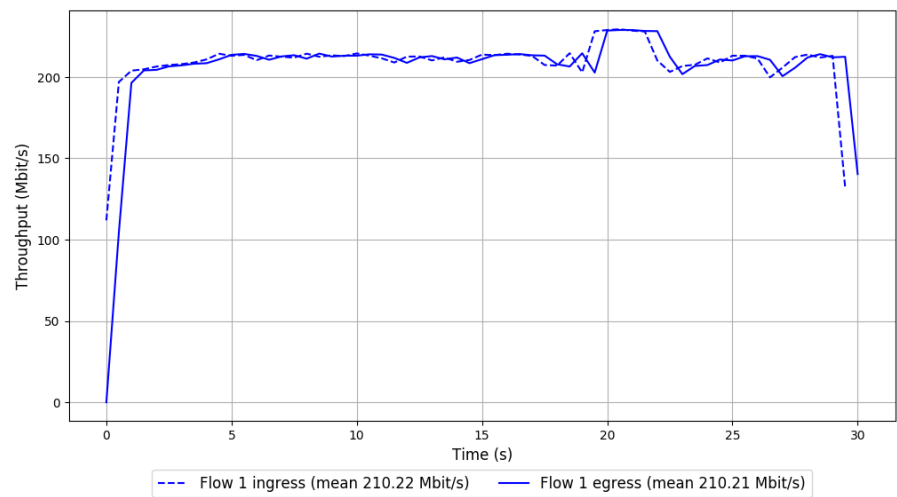
-- Flow 1:

Average throughput: 210.21 Mbit/s

95th percentile per-packet one-way delay: 19.108 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-27 23:48:12

End at: 2018-08-27 23:48:42

Local clock offset: 0.202 ms

Remote clock offset: 0.331 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.01%

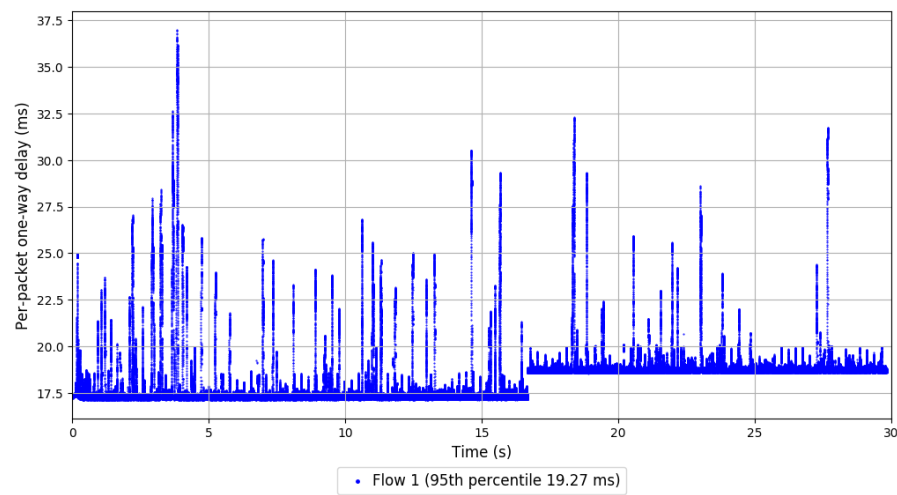
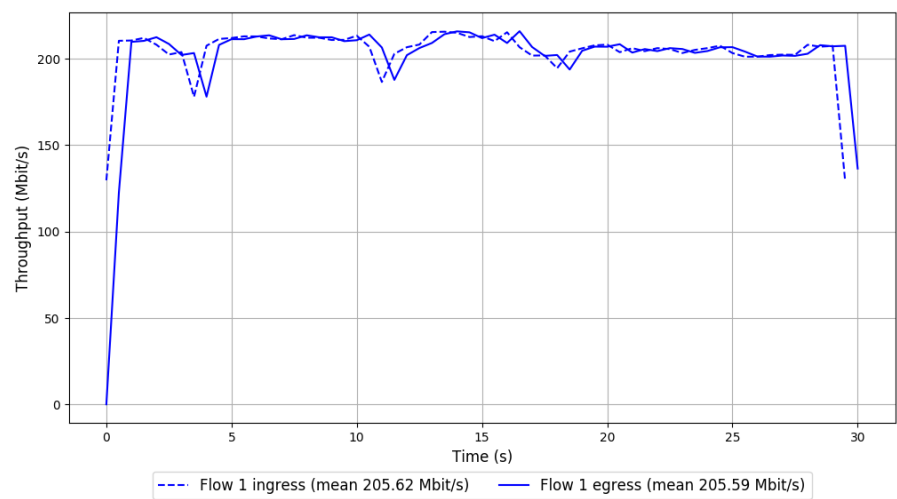
-- Flow 1:

Average throughput: 205.59 Mbit/s

95th percentile per-packet one-way delay: 19.274 ms

Loss rate: 0.01%

Run 8: Report of Indigo — Data Link

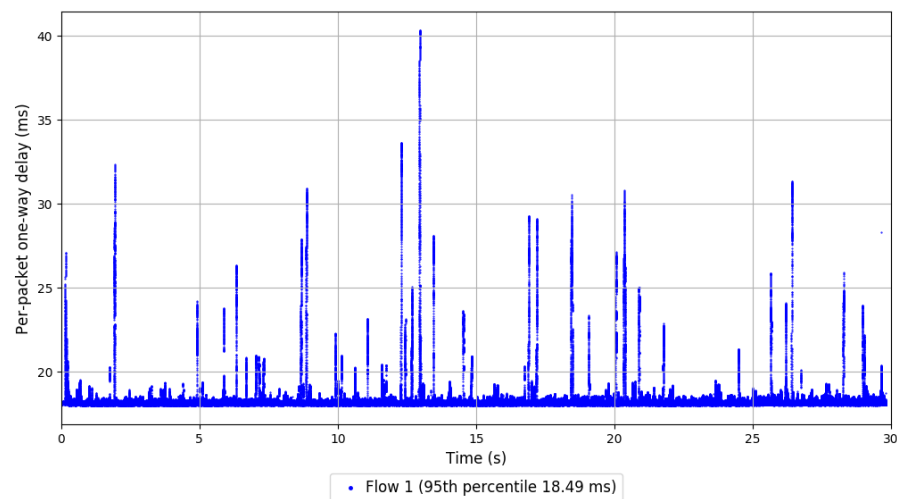
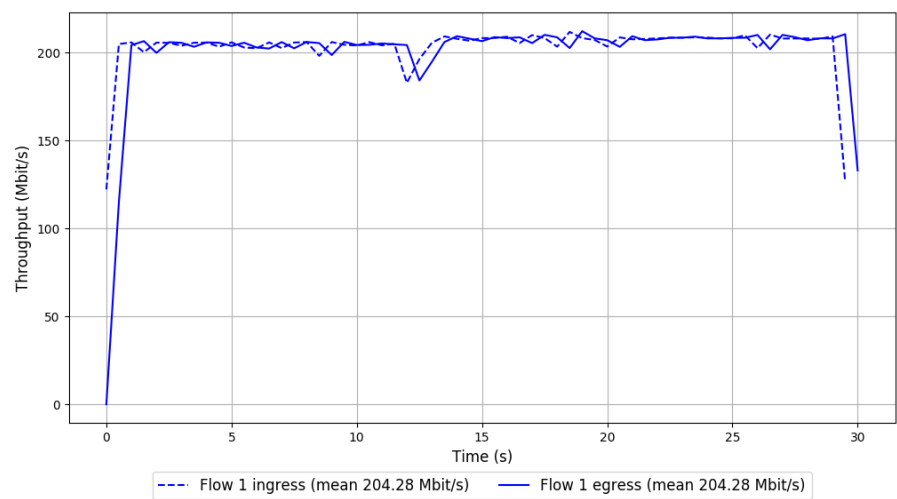


Run 9: Statistics of Indigo

Start at: 2018-08-28 00:12:46
End at: 2018-08-28 00:13:16
Local clock offset: 0.15 ms
Remote clock offset: -0.639 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 204.28 Mbit/s
95th percentile per-packet one-way delay: 18.491 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.28 Mbit/s
95th percentile per-packet one-way delay: 18.491 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

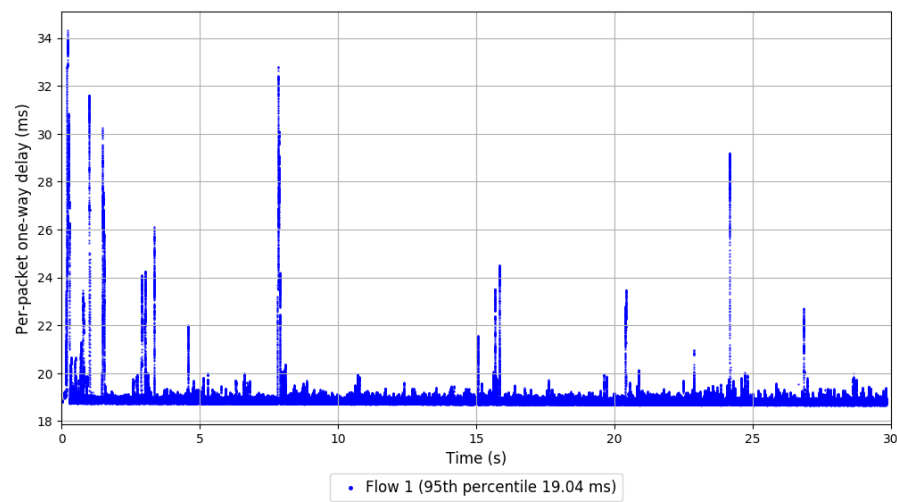
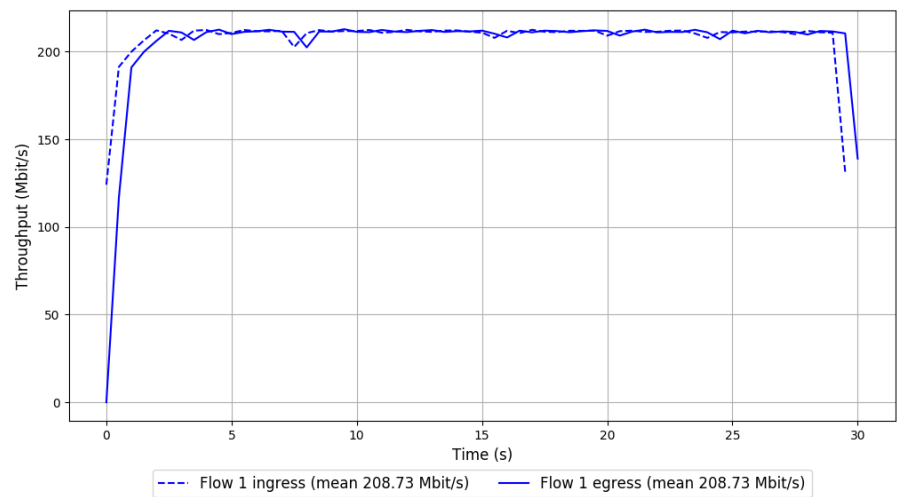


Run 10: Statistics of Indigo

Start at: 2018-08-28 00:37:17
End at: 2018-08-28 00:37:47
Local clock offset: -1.295 ms
Remote clock offset: -1.176 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.73 Mbit/s
95th percentile per-packet one-way delay: 19.038 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 208.73 Mbit/s
95th percentile per-packet one-way delay: 19.038 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

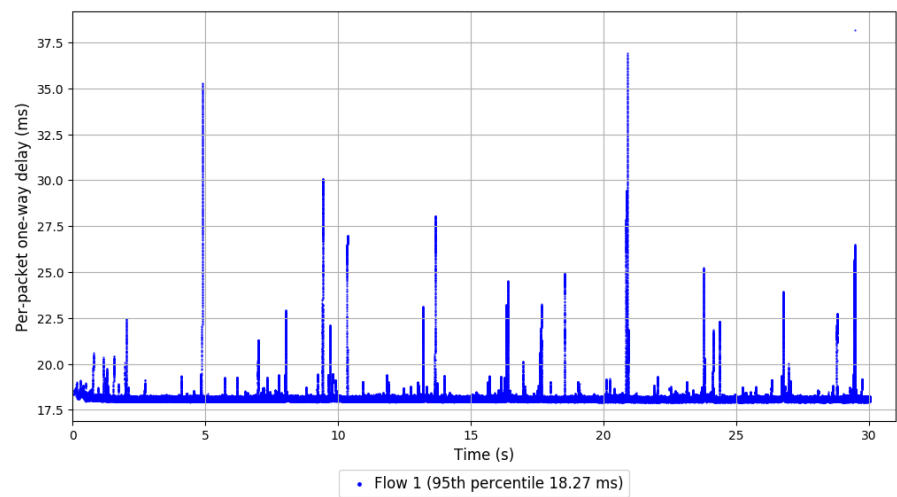
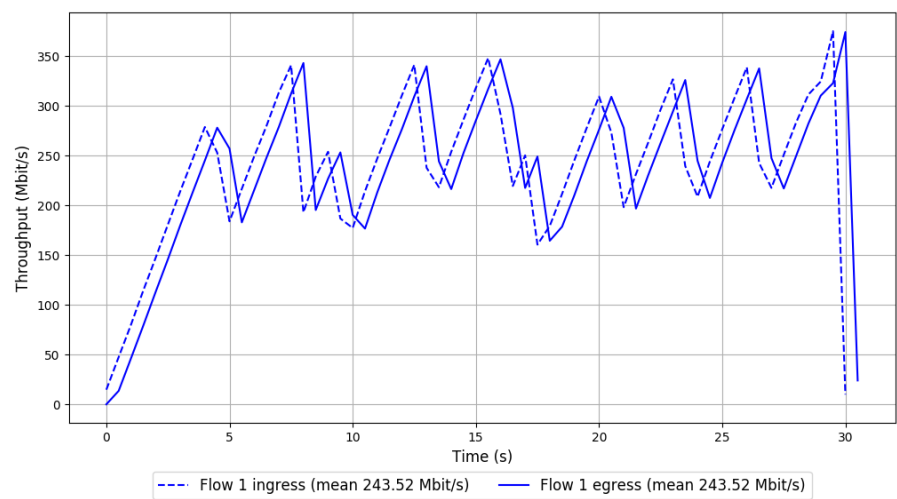


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-27 20:51:48
End at: 2018-08-27 20:52:18
Local clock offset: -4.155 ms
Remote clock offset: 3.229 ms

# Below is generated by plot.py at 2018-08-28 01:41:47
# Datalink statistics
-- Total of 1 flow:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 18.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 243.52 Mbit/s
95th percentile per-packet one-way delay: 18.268 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-27 21:16:18

End at: 2018-08-27 21:16:48

Local clock offset: -0.651 ms

Remote clock offset: 2.481 ms

Below is generated by plot.py at 2018-08-28 01:41:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 230.68 Mbit/s

95th percentile per-packet one-way delay: 19.441 ms

Loss rate: 0.01%

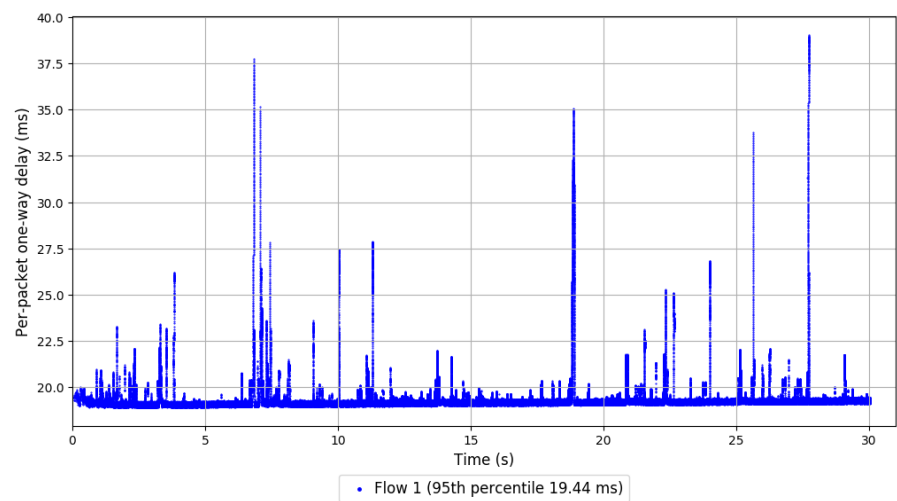
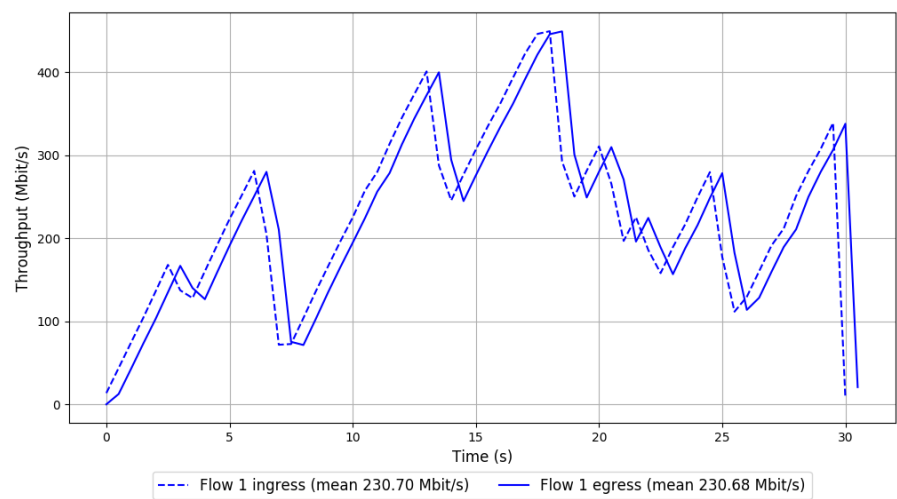
-- Flow 1:

Average throughput: 230.68 Mbit/s

95th percentile per-packet one-way delay: 19.441 ms

Loss rate: 0.01%

Run 2: Report of LEDBAT — Data Link

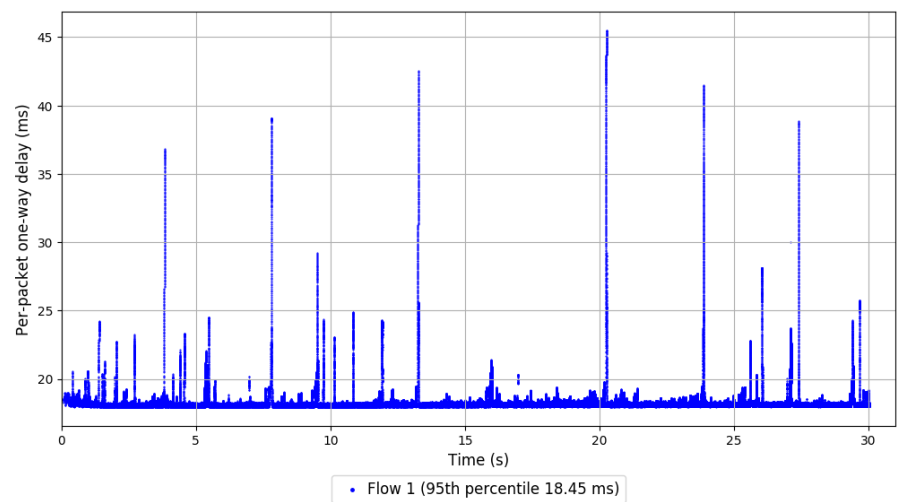
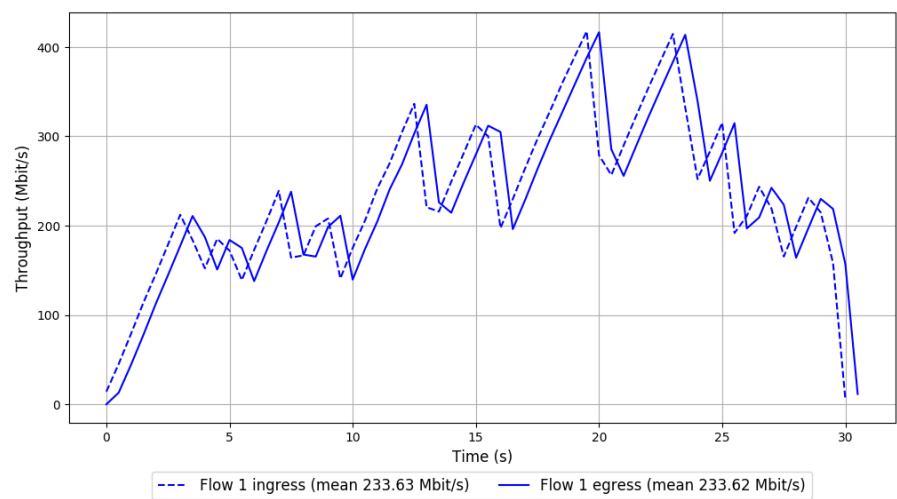


Run 3: Statistics of LEDBAT

Start at: 2018-08-27 21:40:53
End at: 2018-08-27 21:41:23
Local clock offset: 0.305 ms
Remote clock offset: -1.409 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.62 Mbit/s
95th percentile per-packet one-way delay: 18.446 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 233.62 Mbit/s
95th percentile per-packet one-way delay: 18.446 ms
Loss rate: 0.01%

Run 3: Report of LEDBAT — Data Link

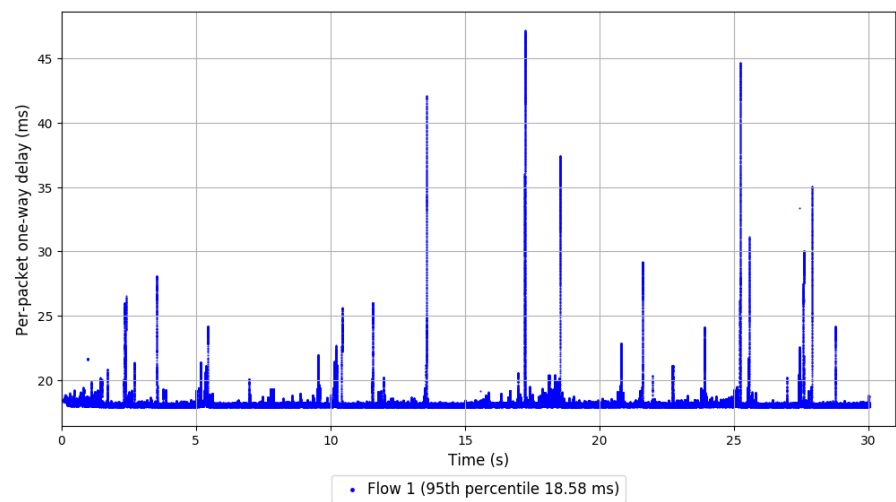
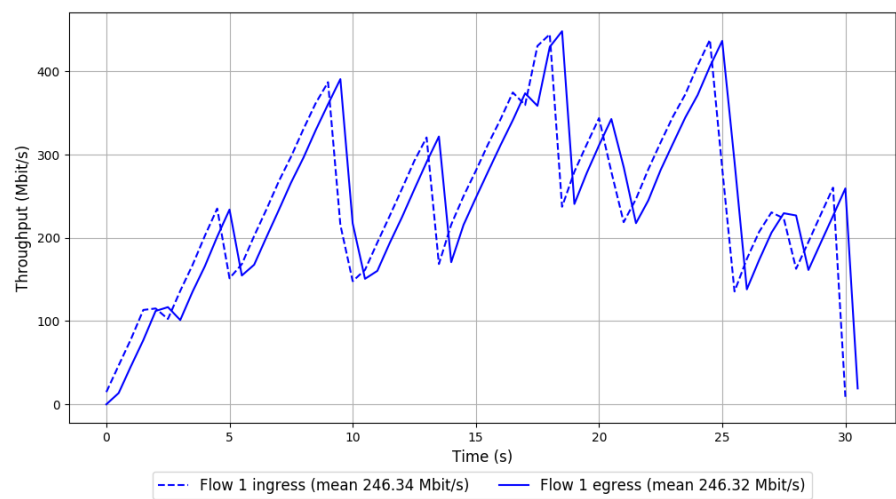


Run 4: Statistics of LEDBAT

Start at: 2018-08-27 22:05:25
End at: 2018-08-27 22:05:55
Local clock offset: 0.395 ms
Remote clock offset: -0.586 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 246.32 Mbit/s
95th percentile per-packet one-way delay: 18.577 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 246.32 Mbit/s
95th percentile per-packet one-way delay: 18.577 ms
Loss rate: 0.01%

Run 4: Report of LEDBAT — Data Link

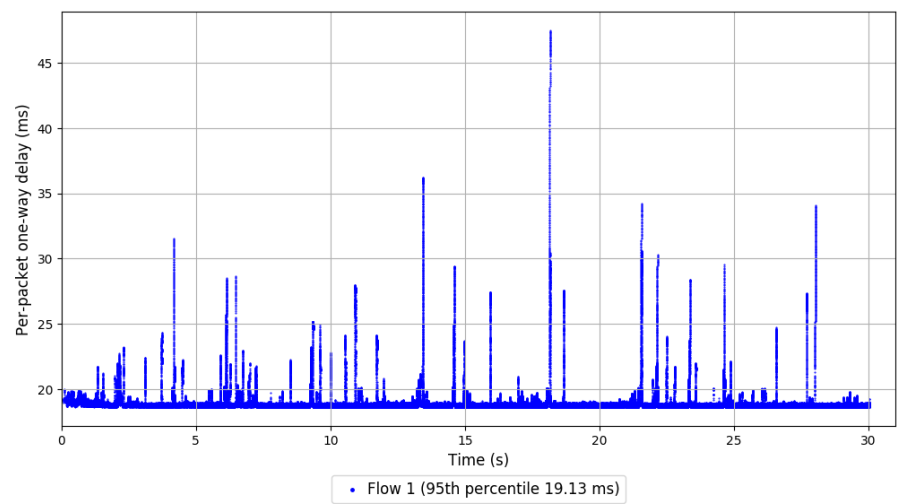
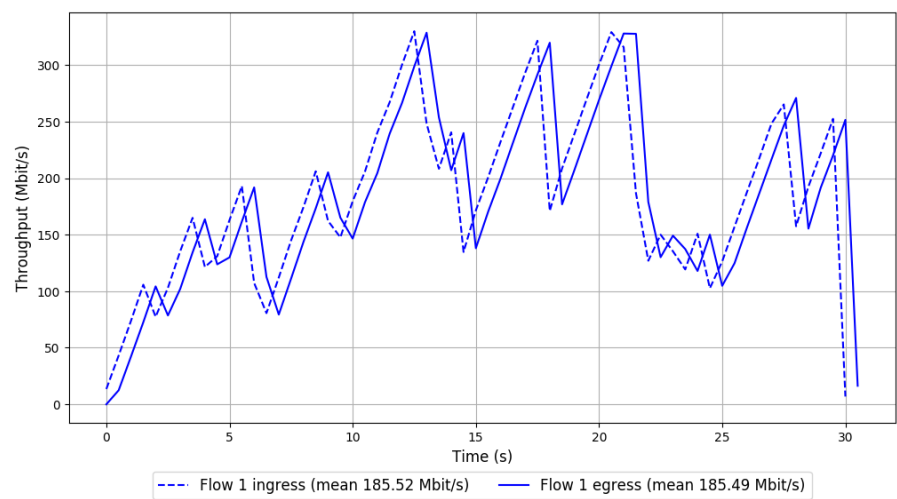


Run 5: Statistics of LEDBAT

Start at: 2018-08-27 22:29:52
End at: 2018-08-27 22:30:23
Local clock offset: 0.444 ms
Remote clock offset: -0.282 ms

Below is generated by plot.py at 2018-08-28 01:41:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.49 Mbit/s
95th percentile per-packet one-way delay: 19.132 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 185.49 Mbit/s
95th percentile per-packet one-way delay: 19.132 ms
Loss rate: 0.02%

Run 5: Report of LEDBAT — Data Link

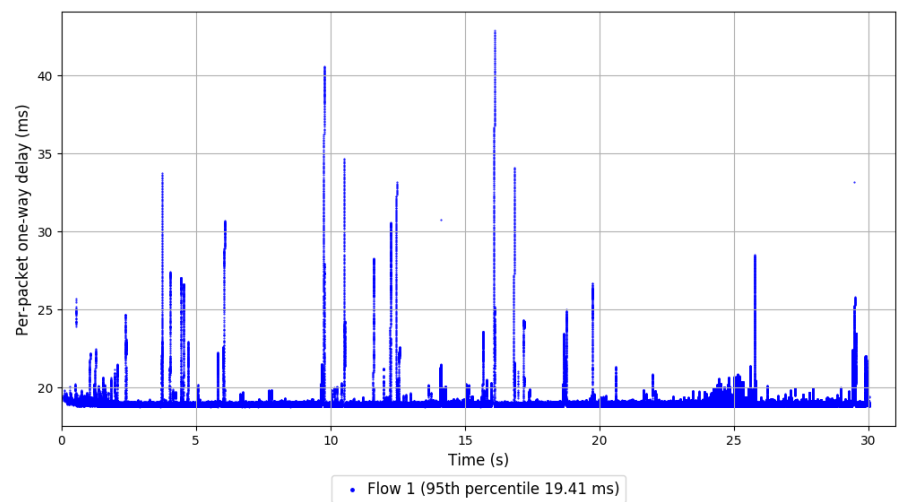
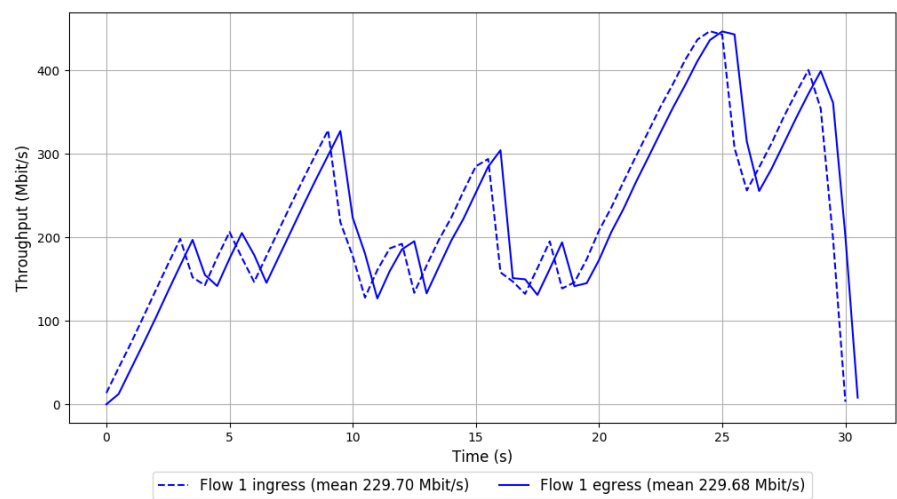


Run 6: Statistics of LEDBAT

Start at: 2018-08-27 22:54:25
End at: 2018-08-27 22:54:55
Local clock offset: 0.301 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-08-28 01:42:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 229.68 Mbit/s
95th percentile per-packet one-way delay: 19.408 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 229.68 Mbit/s
95th percentile per-packet one-way delay: 19.408 ms
Loss rate: 0.01%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-27 23:18:53

End at: 2018-08-27 23:19:23

Local clock offset: 0.463 ms

Remote clock offset: 3.941 ms

Below is generated by plot.py at 2018-08-28 01:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.76 Mbit/s

95th percentile per-packet one-way delay: 18.921 ms

Loss rate: 0.00%

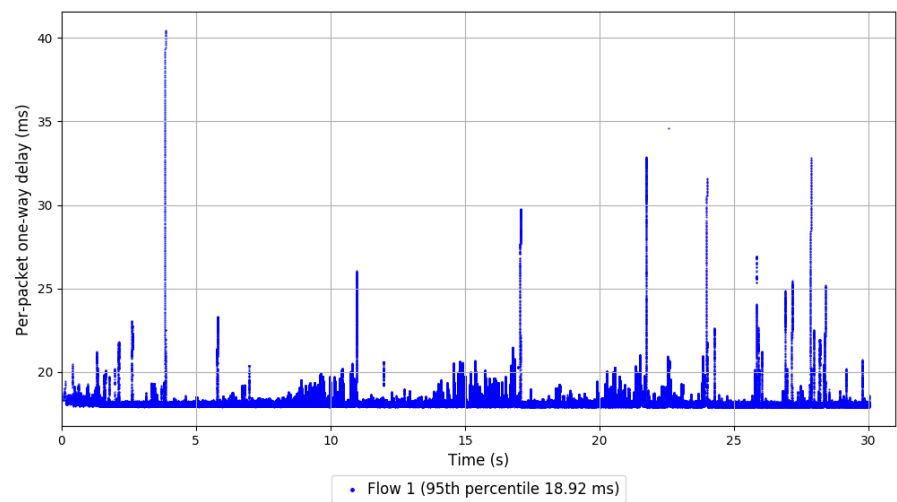
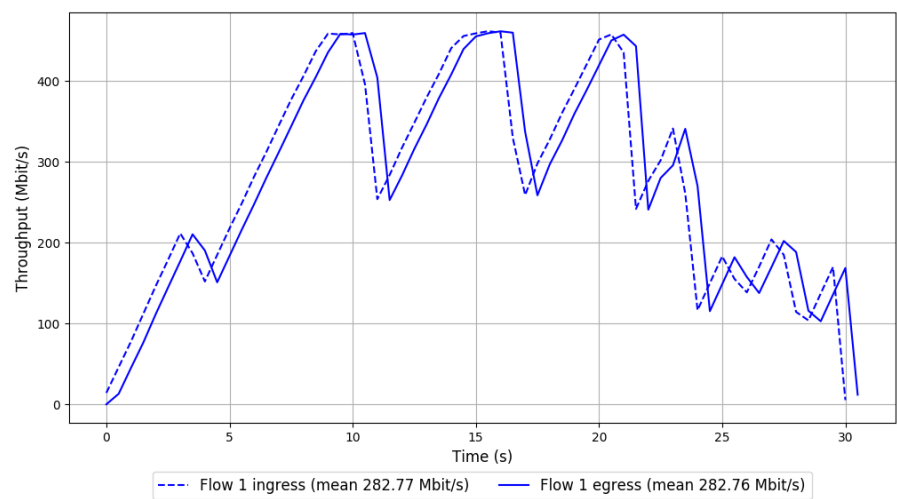
-- Flow 1:

Average throughput: 282.76 Mbit/s

95th percentile per-packet one-way delay: 18.921 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-27 23:43:26

End at: 2018-08-27 23:43:56

Local clock offset: 0.184 ms

Remote clock offset: 0.928 ms

Below is generated by plot.py at 2018-08-28 01:42:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.41 Mbit/s

95th percentile per-packet one-way delay: 19.485 ms

Loss rate: 0.01%

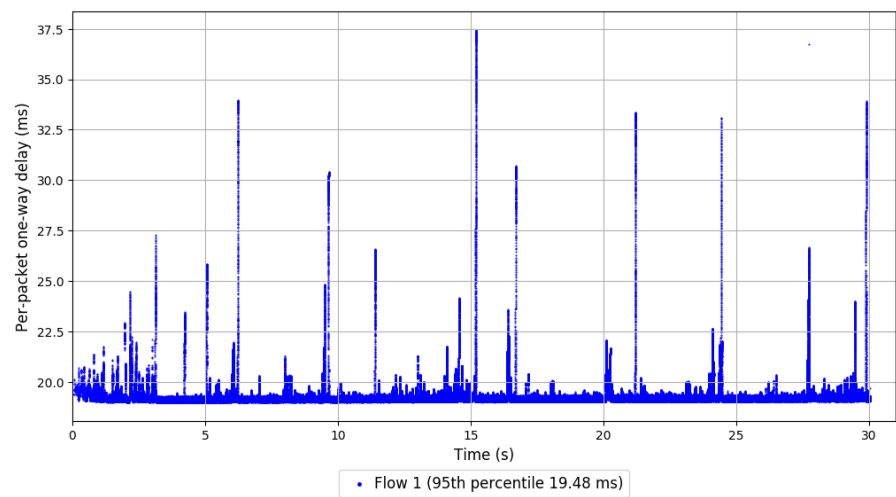
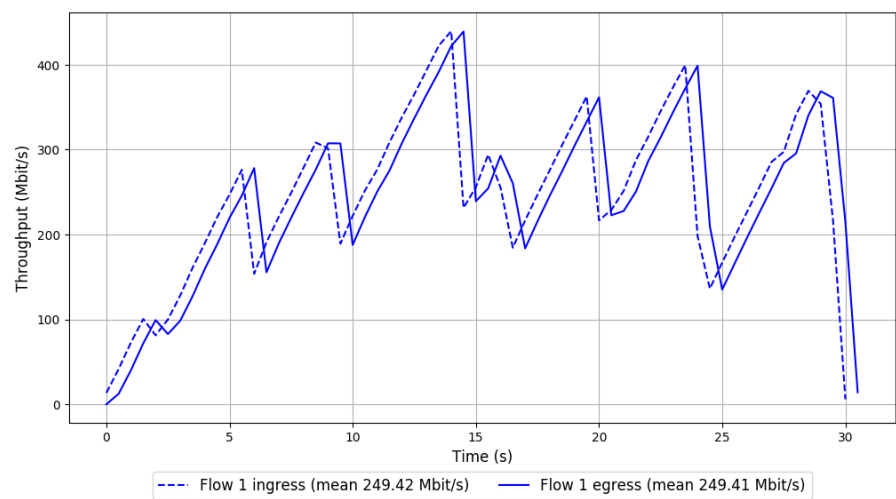
-- Flow 1:

Average throughput: 249.41 Mbit/s

95th percentile per-packet one-way delay: 19.485 ms

Loss rate: 0.01%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-28 00:07:55

End at: 2018-08-28 00:08:25

Local clock offset: 0.137 ms

Remote clock offset: -0.47 ms

Below is generated by plot.py at 2018-08-28 01:44:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.03 Mbit/s

95th percentile per-packet one-way delay: 19.482 ms

Loss rate: 0.01%

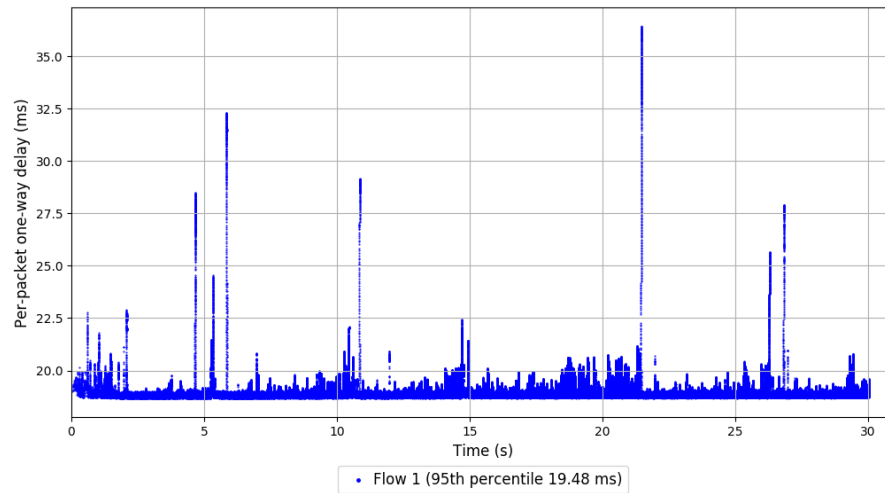
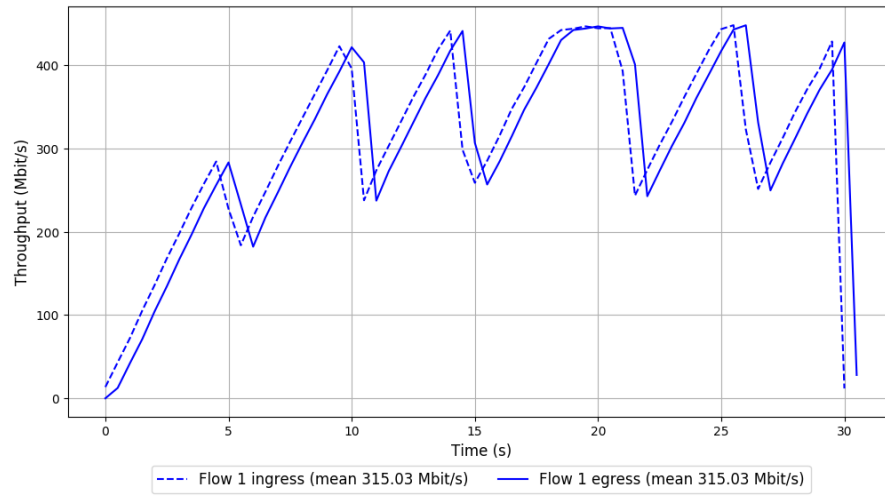
-- Flow 1:

Average throughput: 315.03 Mbit/s

95th percentile per-packet one-way delay: 19.482 ms

Loss rate: 0.01%

Run 9: Report of LEDBAT — Data Link

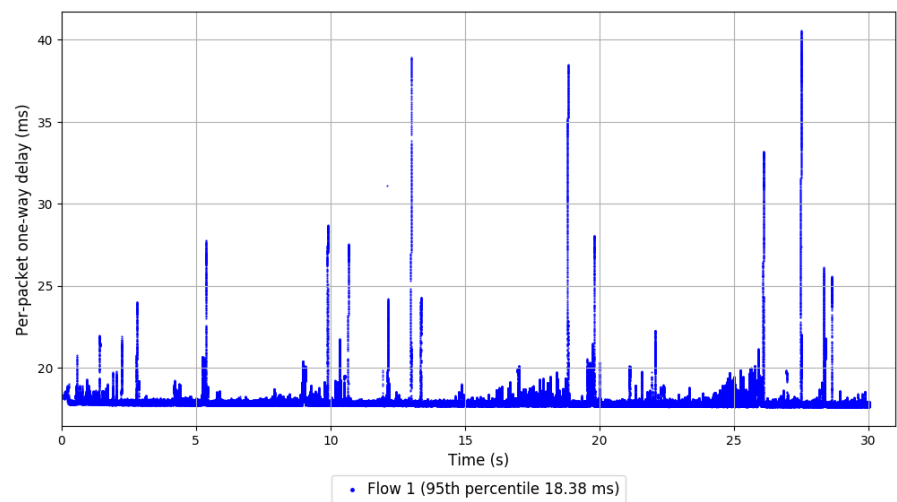
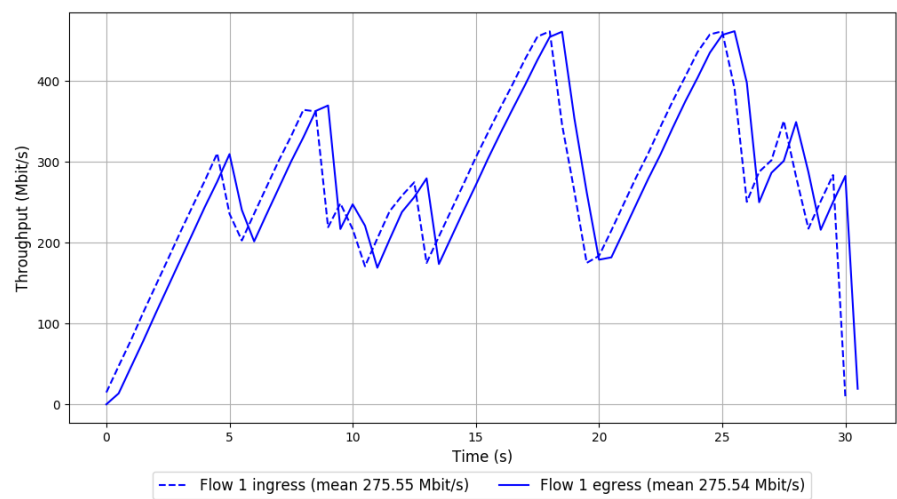


Run 10: Statistics of LEDBAT

Start at: 2018-08-28 00:32:30
End at: 2018-08-28 00:33:00
Local clock offset: -0.088 ms
Remote clock offset: -1.159 ms

Below is generated by plot.py at 2018-08-28 01:44:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 275.54 Mbit/s
95th percentile per-packet one-way delay: 18.377 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 275.54 Mbit/s
95th percentile per-packet one-way delay: 18.377 ms
Loss rate: 0.01%

Run 10: Report of LEDBAT — Data Link

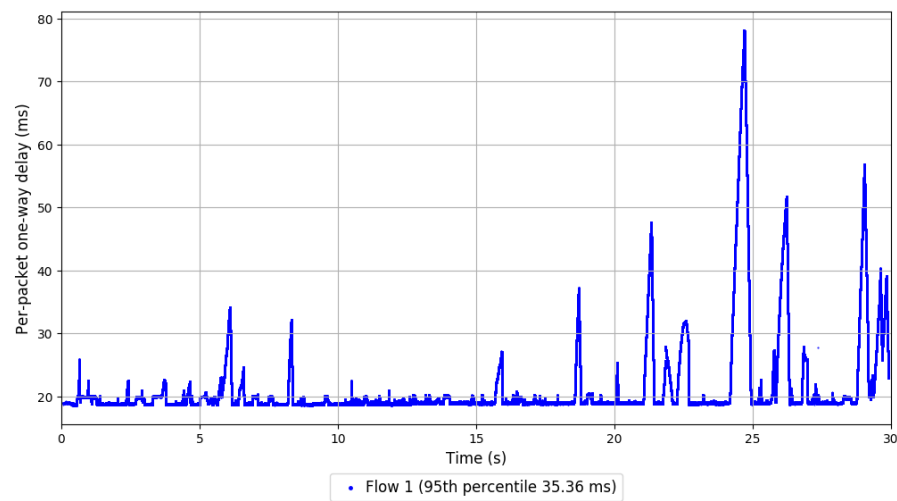
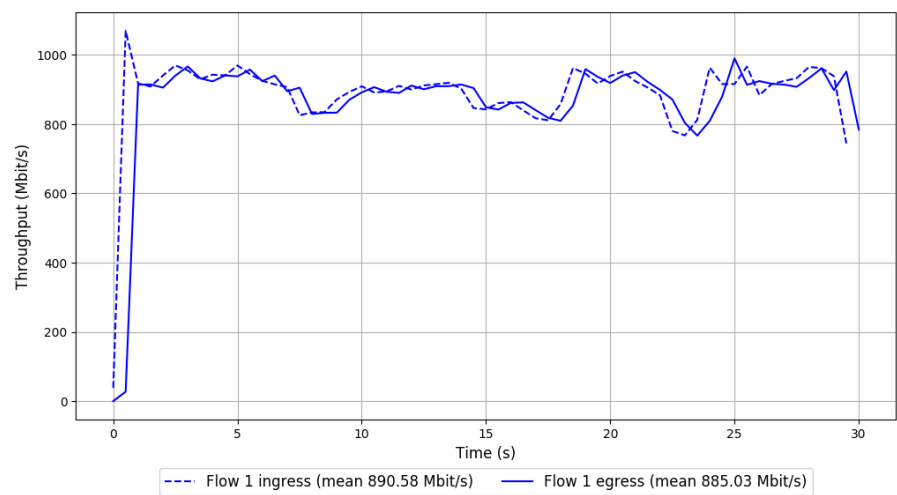


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 20:48:44
End at: 2018-08-27 20:49:14
Local clock offset: -3.909 ms
Remote clock offset: 3.205 ms

# Below is generated by plot.py at 2018-08-28 01:51:50
# Datalink statistics
-- Total of 1 flow:
Average throughput: 885.03 Mbit/s
95th percentile per-packet one-way delay: 35.360 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 885.03 Mbit/s
95th percentile per-packet one-way delay: 35.360 ms
Loss rate: 0.62%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 21:13:12

End at: 2018-08-27 21:13:42

Local clock offset: -1.104 ms

Remote clock offset: 3.48 ms

Below is generated by plot.py at 2018-08-28 01:51:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 862.63 Mbit/s

95th percentile per-packet one-way delay: 34.077 ms

Loss rate: 0.48%

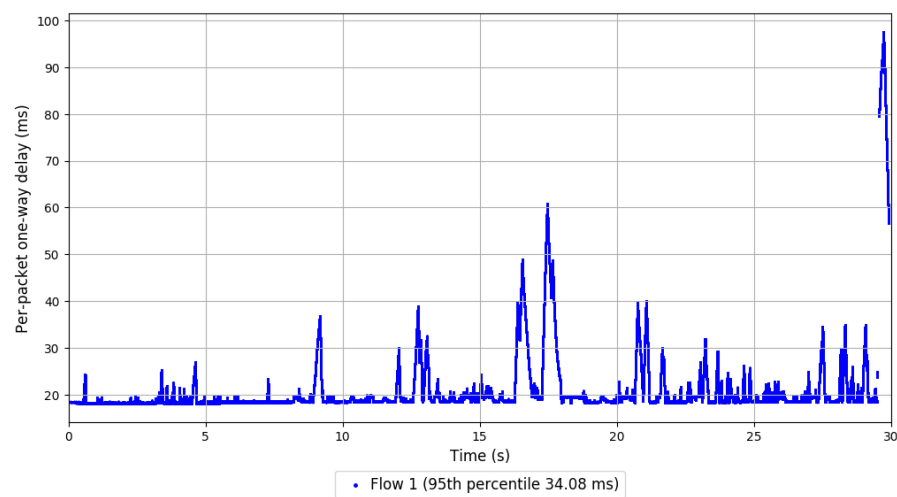
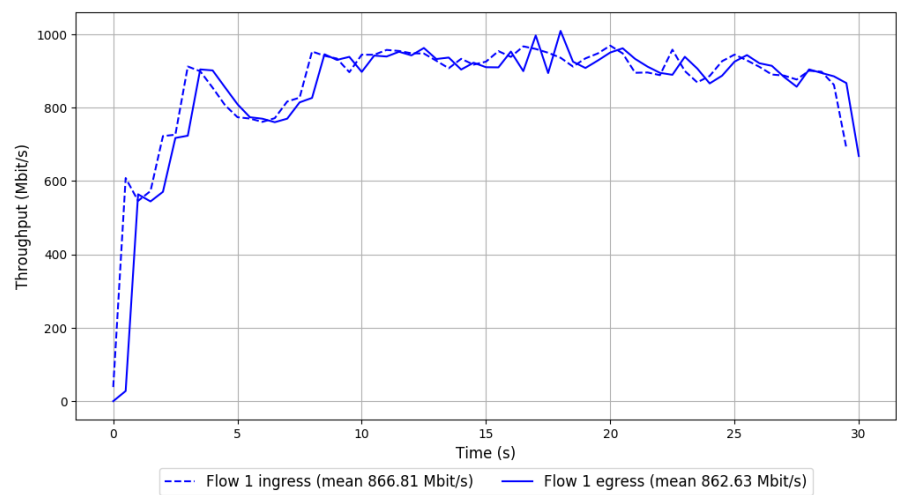
-- Flow 1:

Average throughput: 862.63 Mbit/s

95th percentile per-packet one-way delay: 34.077 ms

Loss rate: 0.48%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 21:37:48

End at: 2018-08-27 21:38:18

Local clock offset: 0.296 ms

Remote clock offset: -1.197 ms

Below is generated by plot.py at 2018-08-28 01:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 892.35 Mbit/s

95th percentile per-packet one-way delay: 41.131 ms

Loss rate: 0.55%

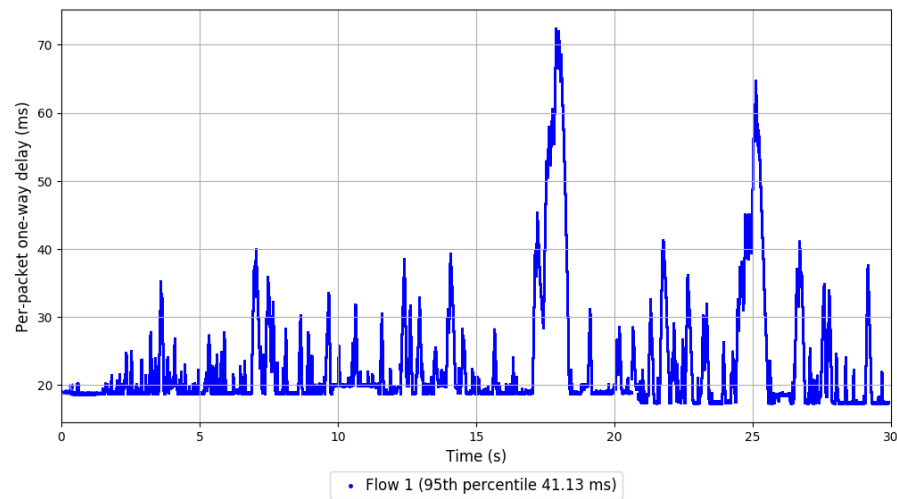
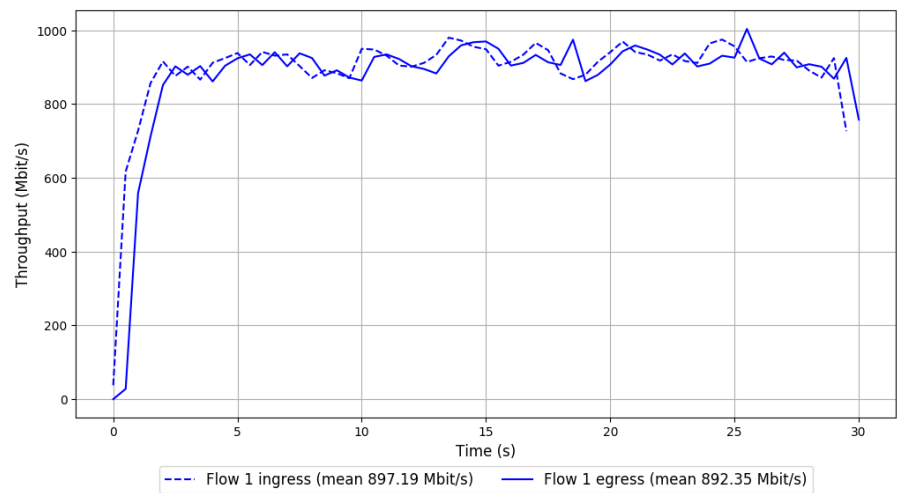
-- Flow 1:

Average throughput: 892.35 Mbit/s

95th percentile per-packet one-way delay: 41.131 ms

Loss rate: 0.55%

Run 3: Report of PCC-Allegro — Data Link

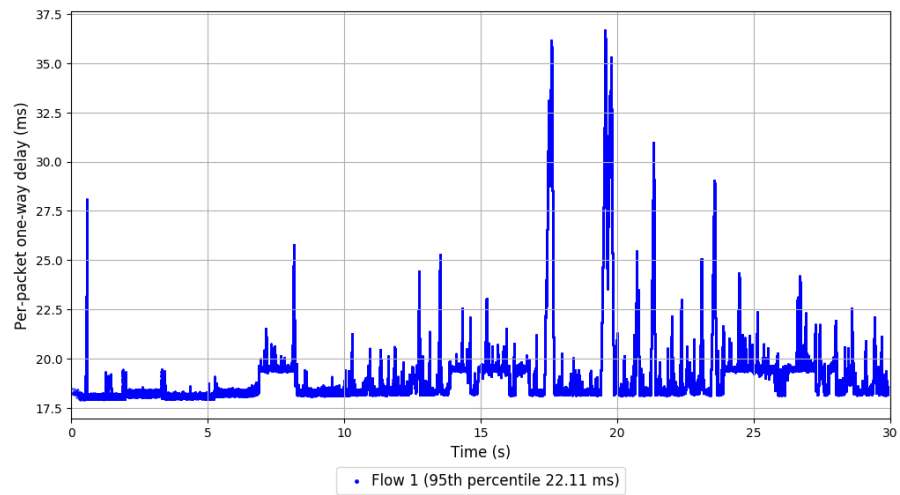
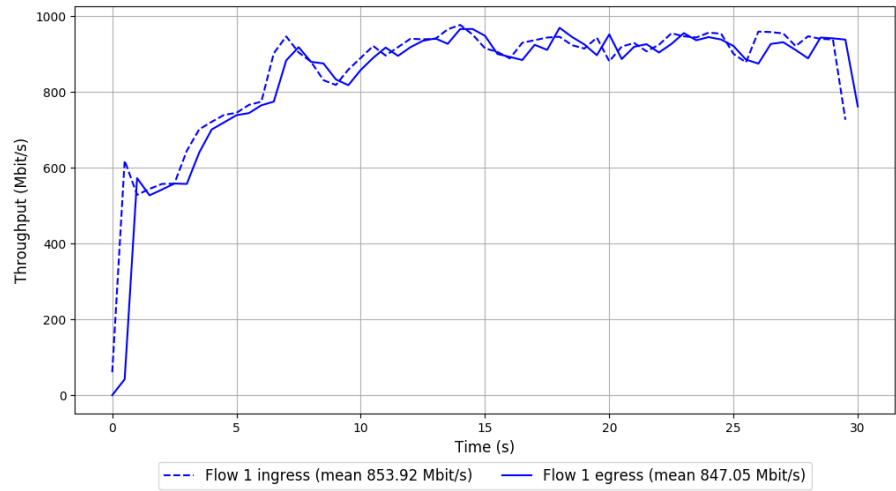


Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 22:02:21
End at: 2018-08-27 22:02:51
Local clock offset: 0.414 ms
Remote clock offset: -0.613 ms

Below is generated by plot.py at 2018-08-28 01:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 847.05 Mbit/s
95th percentile per-packet one-way delay: 22.114 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 847.05 Mbit/s
95th percentile per-packet one-way delay: 22.114 ms
Loss rate: 0.81%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 22:26:50

End at: 2018-08-27 22:27:20

Local clock offset: 0.345 ms

Remote clock offset: -0.438 ms

Below is generated by plot.py at 2018-08-28 01:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 828.06 Mbit/s

95th percentile per-packet one-way delay: 33.310 ms

Loss rate: 0.20%

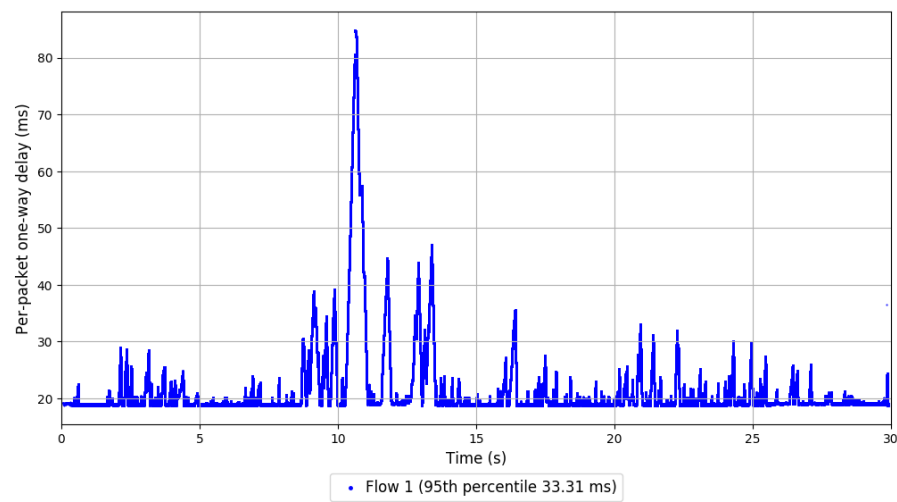
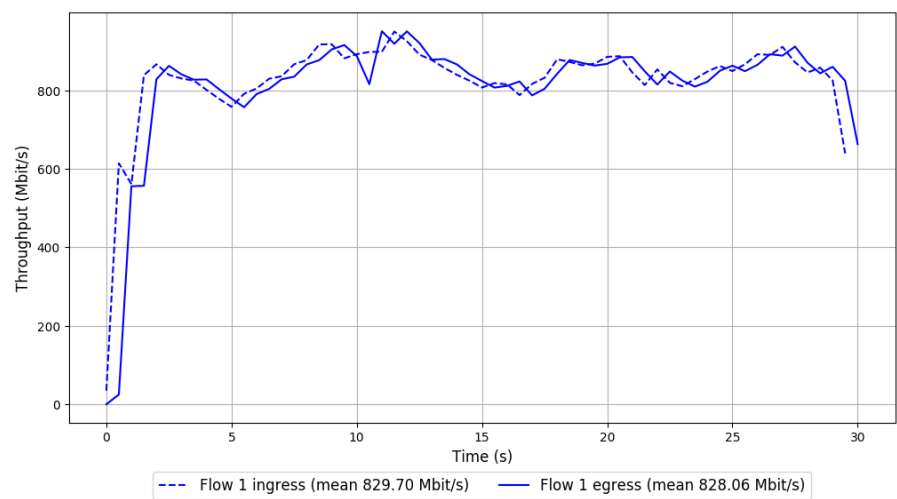
-- Flow 1:

Average throughput: 828.06 Mbit/s

95th percentile per-packet one-way delay: 33.310 ms

Loss rate: 0.20%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-27 22:51:18

End at: 2018-08-27 22:51:48

Local clock offset: 0.301 ms

Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-08-28 01:53:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 847.99 Mbit/s

95th percentile per-packet one-way delay: 46.266 ms

Loss rate: 0.59%

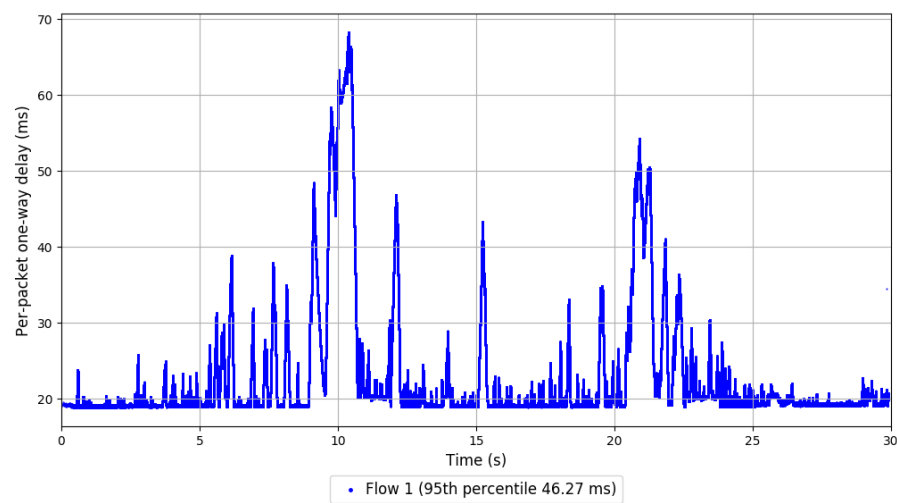
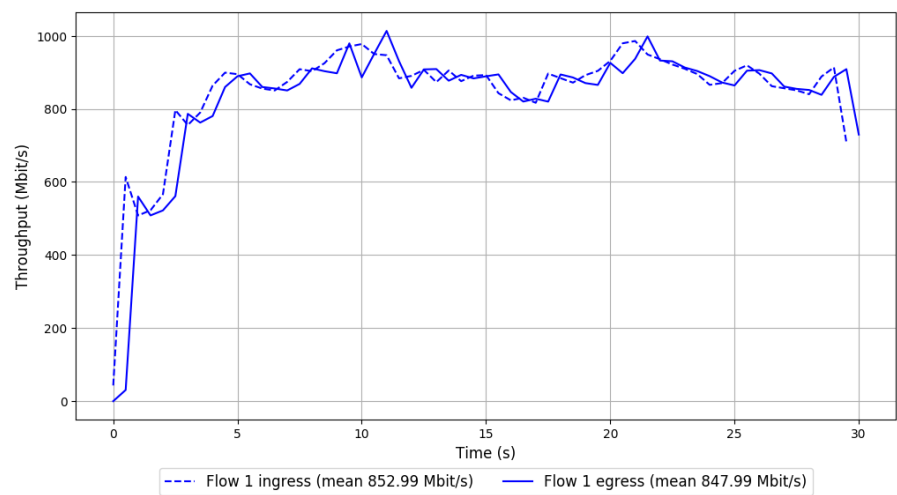
-- Flow 1:

Average throughput: 847.99 Mbit/s

95th percentile per-packet one-way delay: 46.266 ms

Loss rate: 0.59%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 23:15:50

End at: 2018-08-27 23:16:21

Local clock offset: 0.447 ms

Remote clock offset: 3.672 ms

Below is generated by plot.py at 2018-08-28 01:54:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 864.79 Mbit/s

95th percentile per-packet one-way delay: 35.668 ms

Loss rate: 0.45%

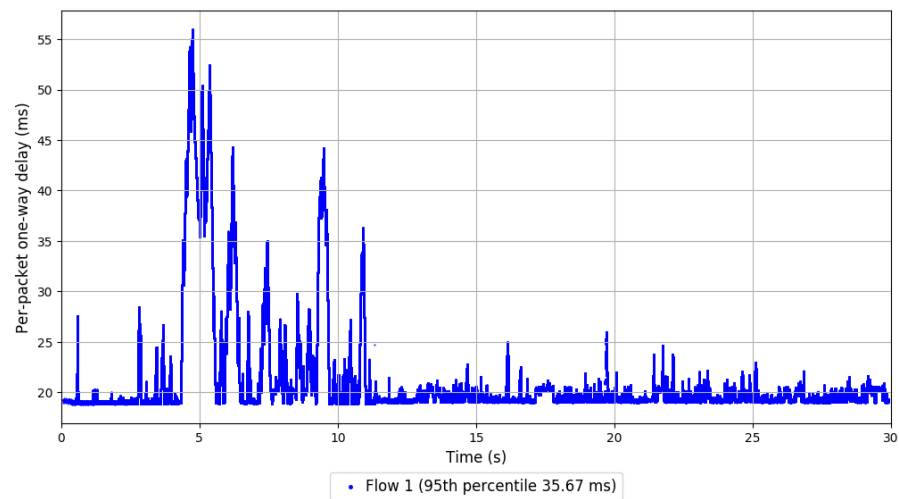
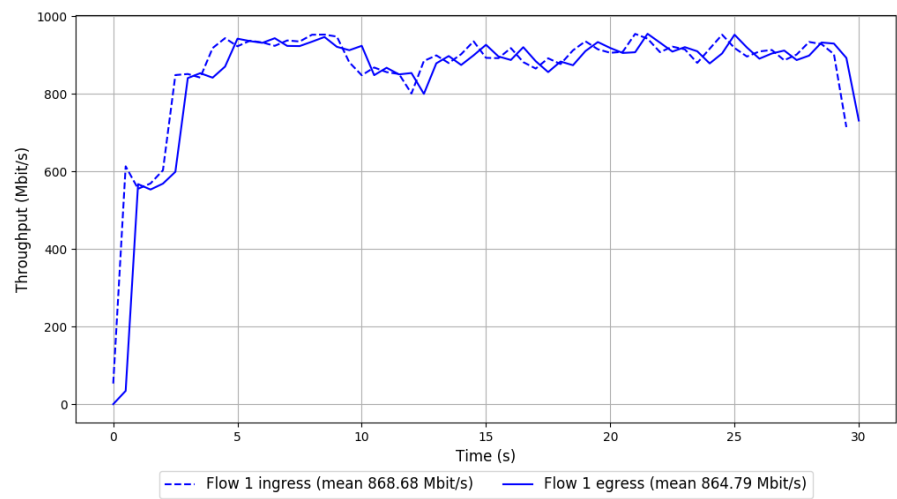
-- Flow 1:

Average throughput: 864.79 Mbit/s

95th percentile per-packet one-way delay: 35.668 ms

Loss rate: 0.45%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 23:40:22

End at: 2018-08-27 23:40:52

Local clock offset: 0.235 ms

Remote clock offset: 1.389 ms

Below is generated by plot.py at 2018-08-28 01:55:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.90 Mbit/s

95th percentile per-packet one-way delay: 23.004 ms

Loss rate: 0.36%

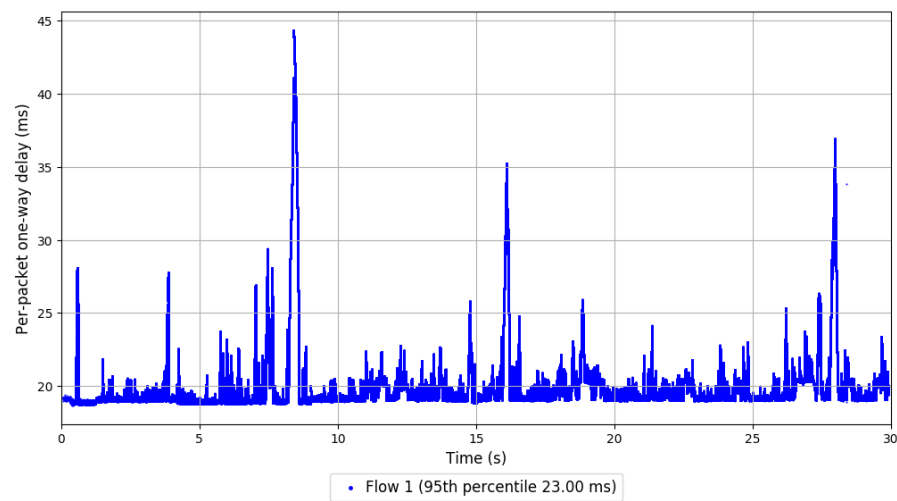
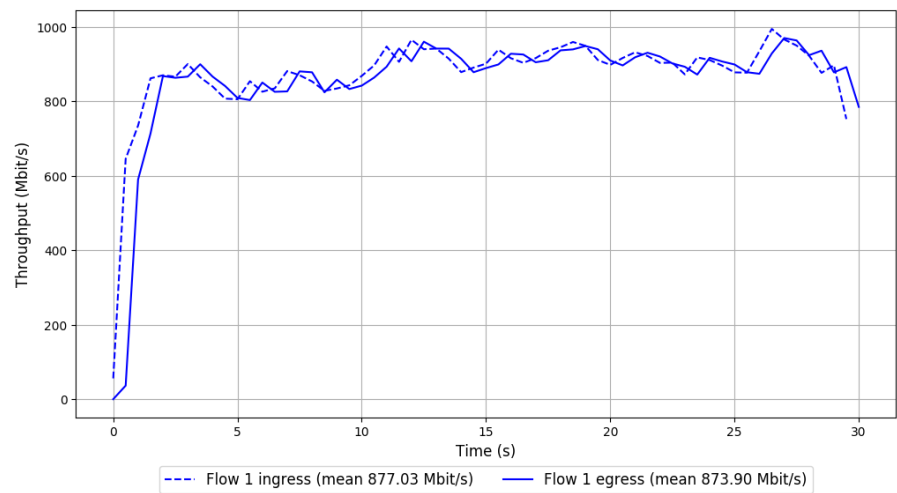
-- Flow 1:

Average throughput: 873.90 Mbit/s

95th percentile per-packet one-way delay: 23.004 ms

Loss rate: 0.36%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-28 00:04:52

End at: 2018-08-28 00:05:22

Local clock offset: 0.123 ms

Remote clock offset: -0.432 ms

Below is generated by plot.py at 2018-08-28 02:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 873.87 Mbit/s

95th percentile per-packet one-way delay: 48.773 ms

Loss rate: 0.45%

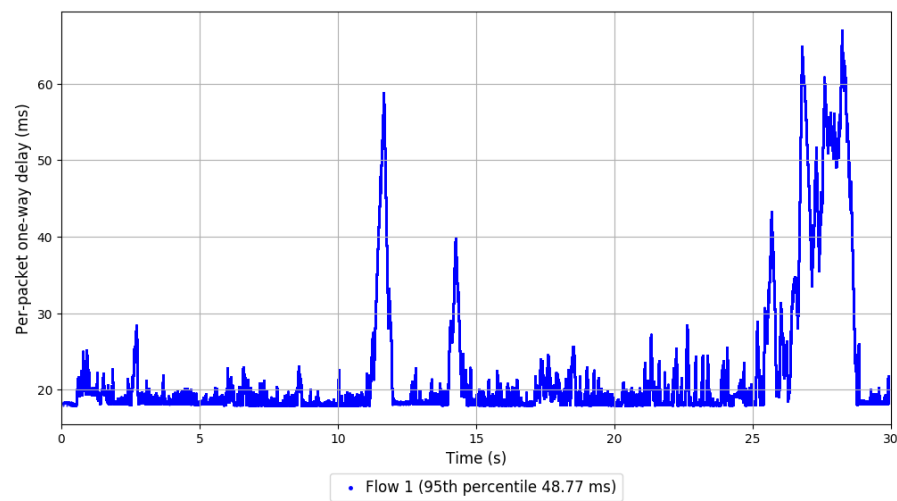
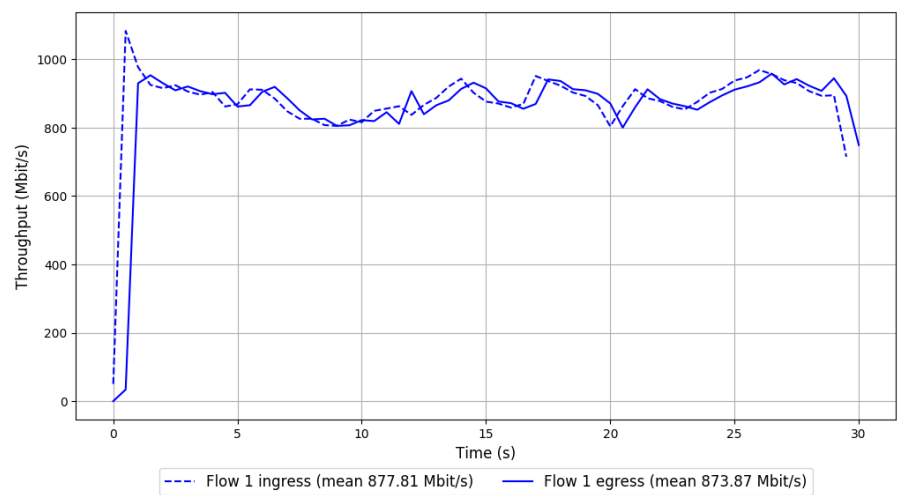
-- Flow 1:

Average throughput: 873.87 Mbit/s

95th percentile per-packet one-way delay: 48.773 ms

Loss rate: 0.45%

Run 9: Report of PCC-Allegro — Data Link

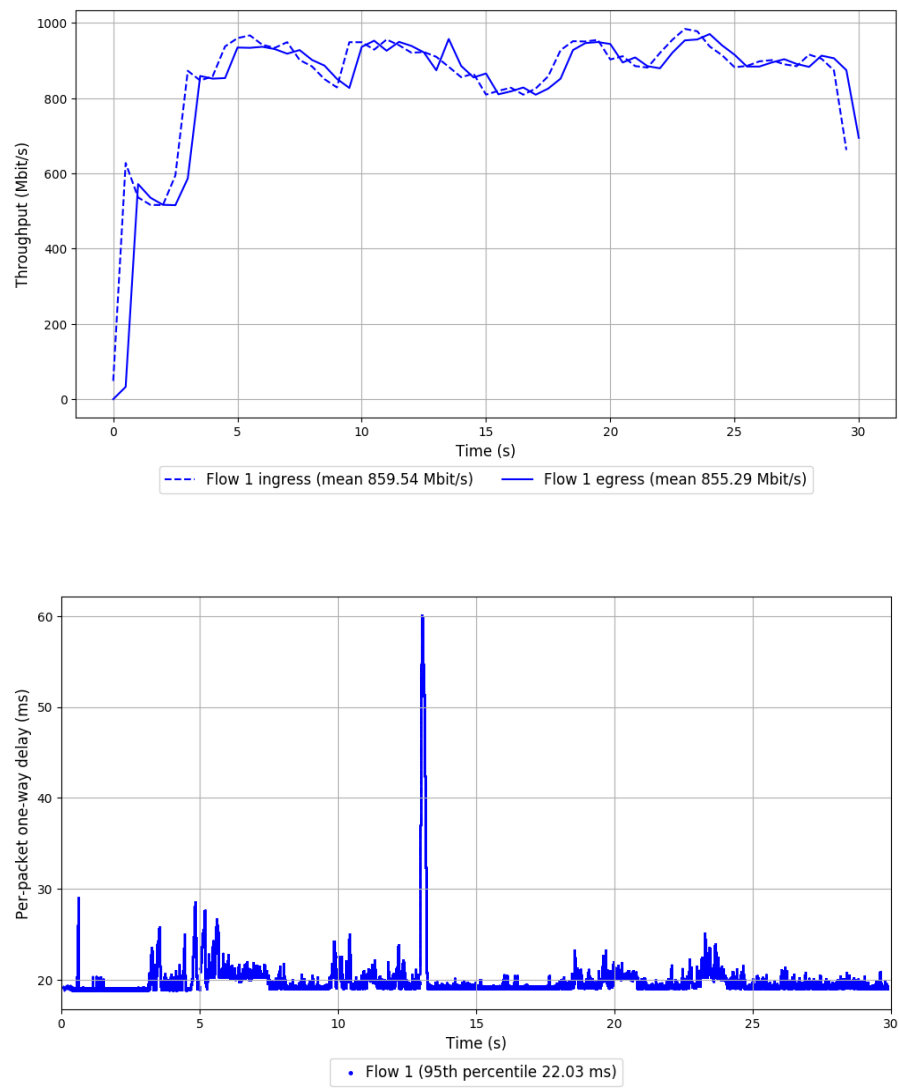


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-28 00:29:28
End at: 2018-08-28 00:29:58
Local clock offset: 0.04 ms
Remote clock offset: -1.103 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 855.29 Mbit/s
95th percentile per-packet one-way delay: 22.031 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 855.29 Mbit/s
95th percentile per-packet one-way delay: 22.031 ms
Loss rate: 0.50%

Run 10: Report of PCC-Allegro — Data Link

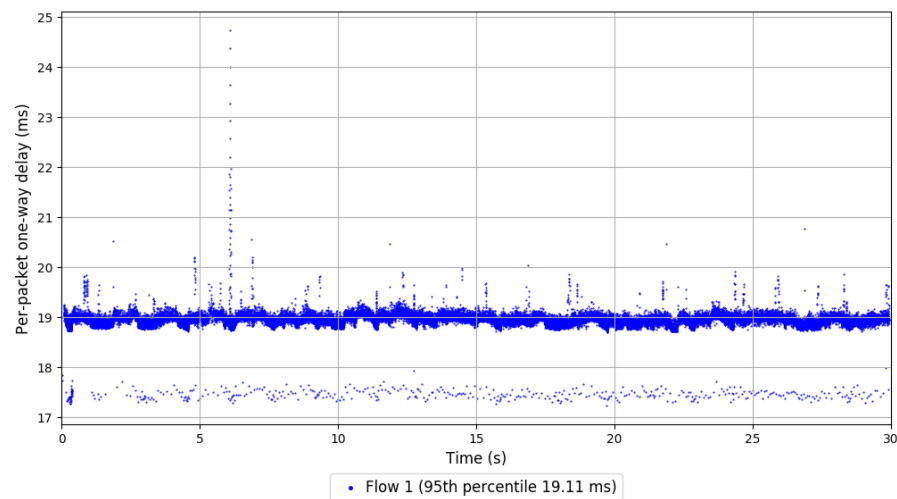
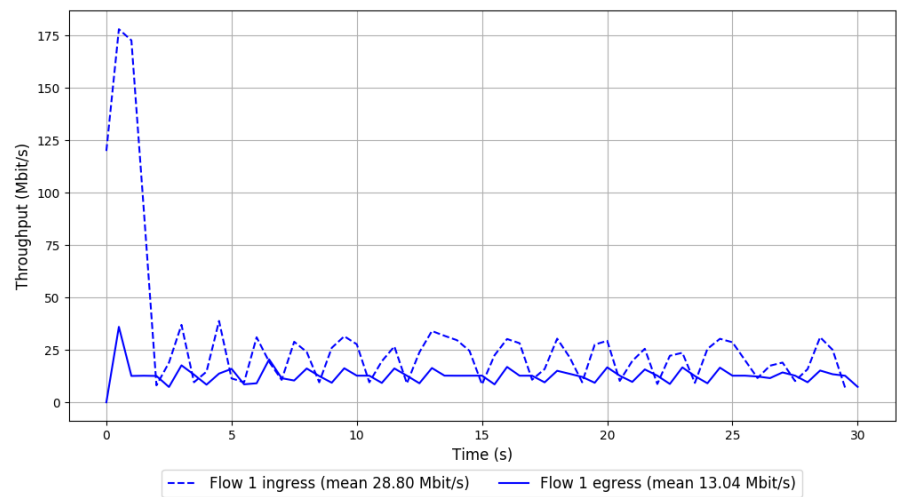


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-27 21:00:38
End at: 2018-08-27 21:01:08
Local clock offset: -4.839 ms
Remote clock offset: 3.401 ms

# Below is generated by plot.py at 2018-08-28 02:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 19.115 ms
Loss rate: 54.71%
-- Flow 1:
Average throughput: 13.04 Mbit/s
95th percentile per-packet one-way delay: 19.115 ms
Loss rate: 54.71%
```

Run 1: Report of PCC-Expr — Data Link

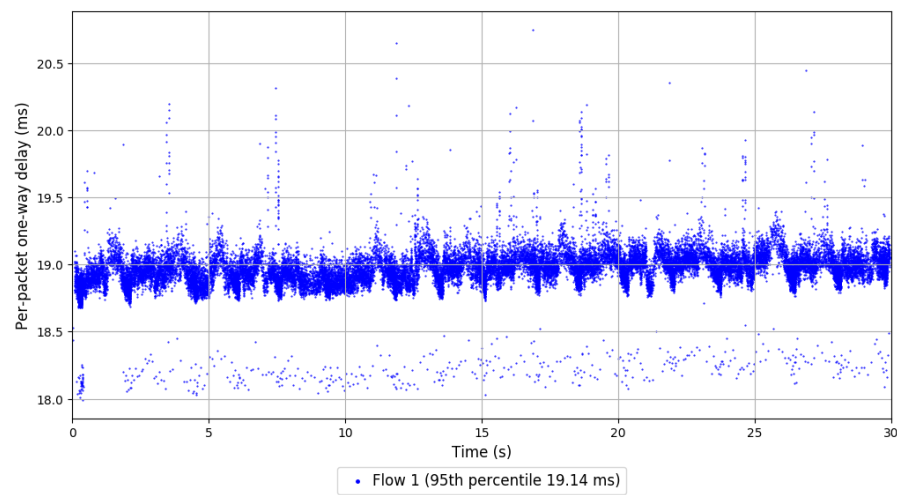
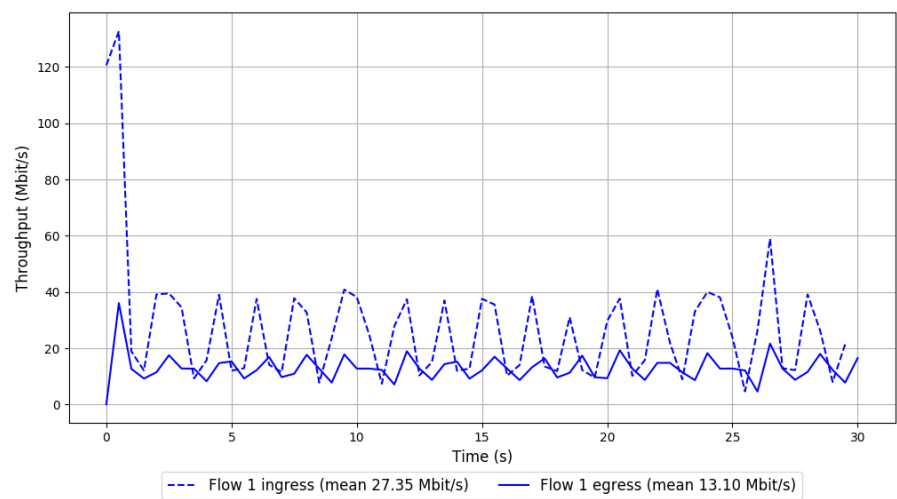


```
Run 2: Statistics of PCC-Expr

Start at: 2018-08-27 21:25:09
End at: 2018-08-27 21:25:39
Local clock offset: 0.004 ms
Remote clock offset: 0.267 ms

# Below is generated by plot.py at 2018-08-28 02:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 19.142 ms
Loss rate: 52.08%
-- Flow 1:
Average throughput: 13.10 Mbit/s
95th percentile per-packet one-way delay: 19.142 ms
Loss rate: 52.08%
```

Run 2: Report of PCC-Expr — Data Link

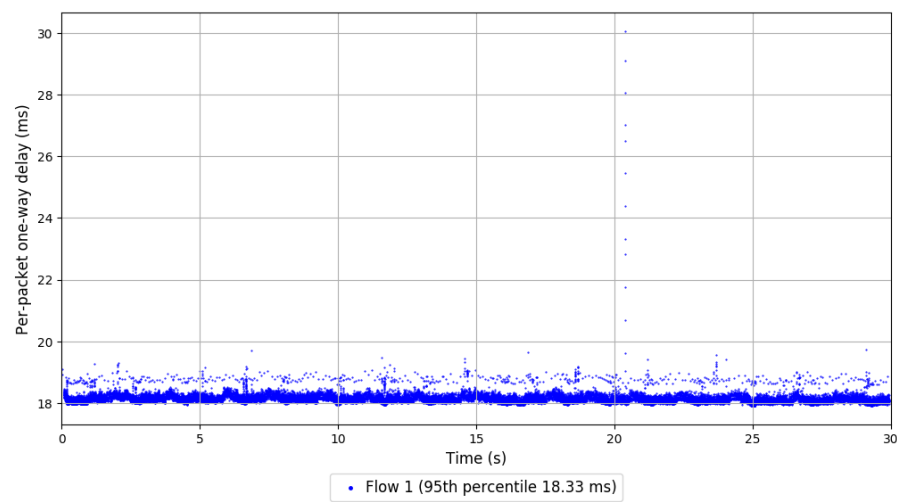
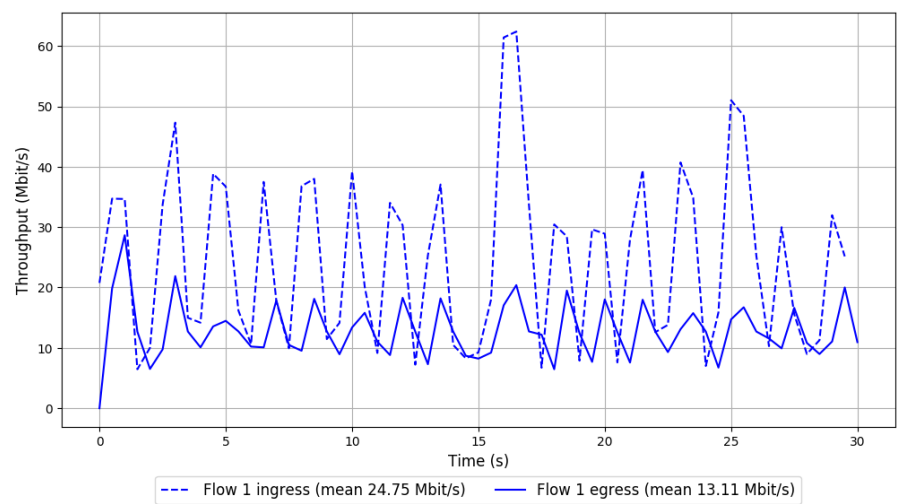


Run 3: Statistics of PCC-Expr

Start at: 2018-08-27 21:49:44
End at: 2018-08-27 21:50:14
Local clock offset: 0.36 ms
Remote clock offset: -1.386 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 18.333 ms
Loss rate: 47.04%
-- Flow 1:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 18.333 ms
Loss rate: 47.04%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-27 22:14:17

End at: 2018-08-27 22:14:47

Local clock offset: 0.369 ms

Remote clock offset: -0.7 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 18.997 ms

Loss rate: 43.03%

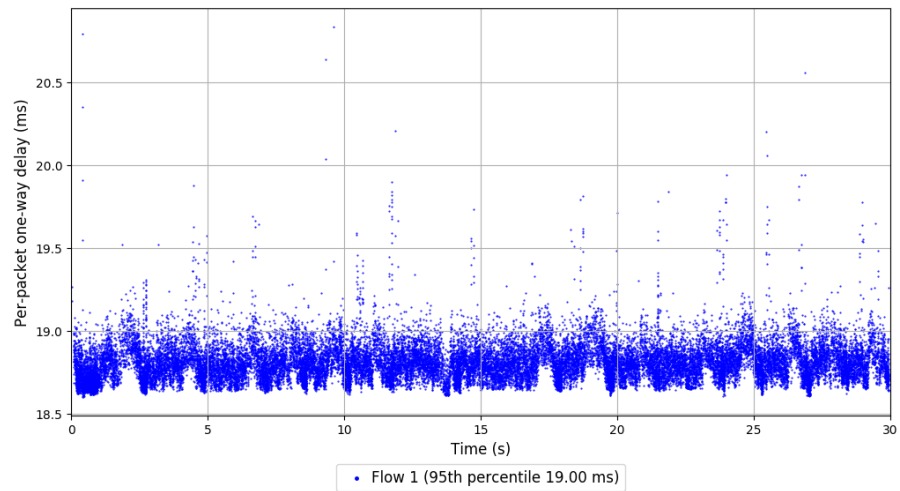
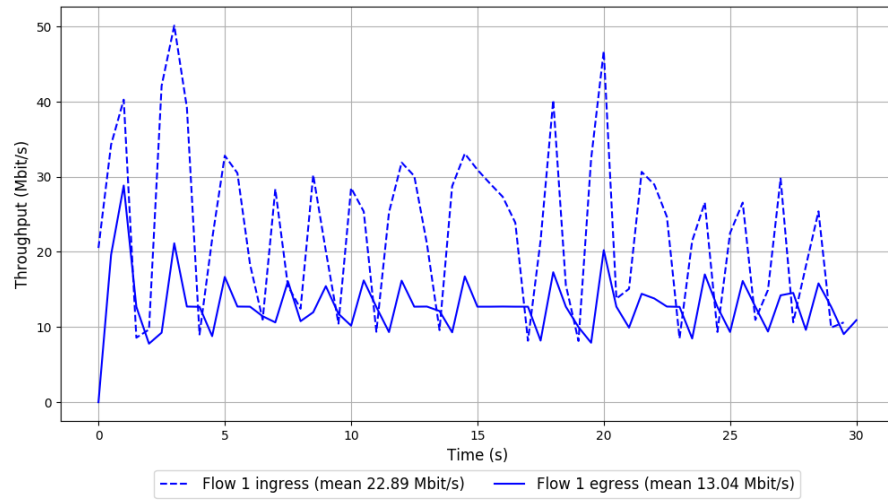
-- Flow 1:

Average throughput: 13.04 Mbit/s

95th percentile per-packet one-way delay: 18.997 ms

Loss rate: 43.03%

Run 4: Report of PCC-Expr — Data Link

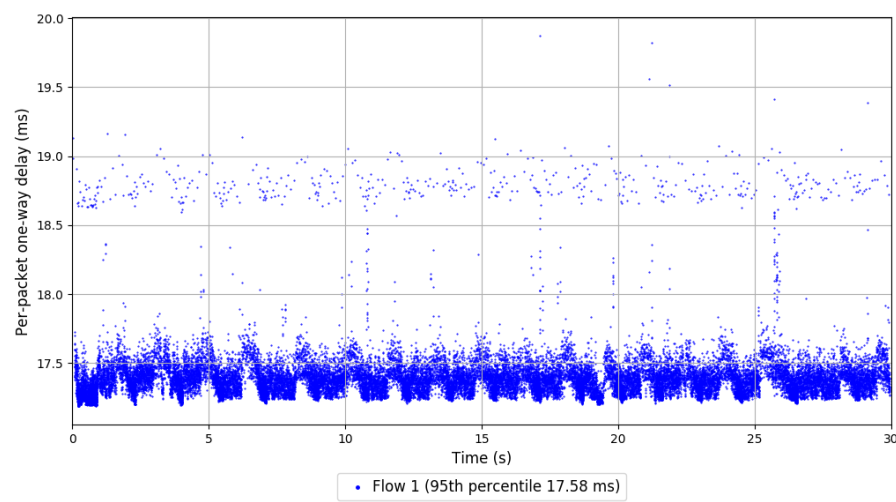
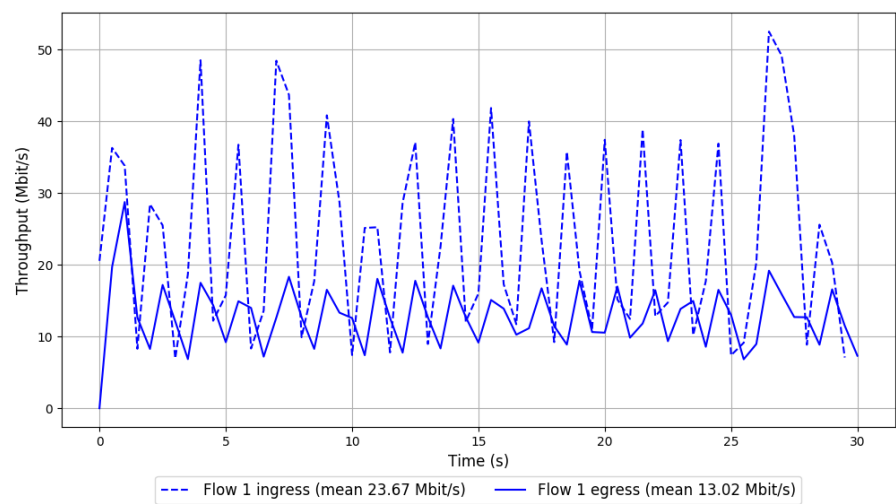


Run 5: Statistics of PCC-Expr

Start at: 2018-08-27 22:38:41
End at: 2018-08-27 22:39:11
Local clock offset: 0.393 ms
Remote clock offset: -0.158 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 17.583 ms
Loss rate: 44.99%
-- Flow 1:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 17.583 ms
Loss rate: 44.99%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-27 23:03:13

End at: 2018-08-27 23:03:43

Local clock offset: 0.333 ms

Remote clock offset: 1.947 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 17.667 ms

Loss rate: 39.79%

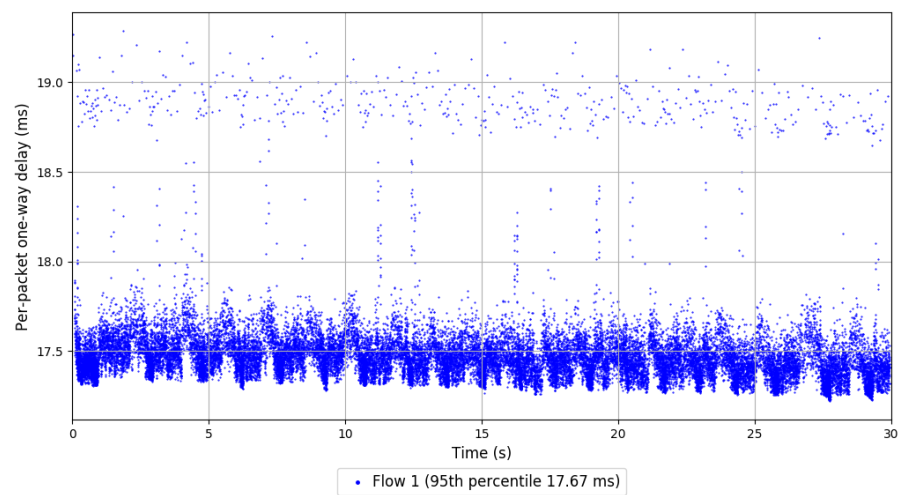
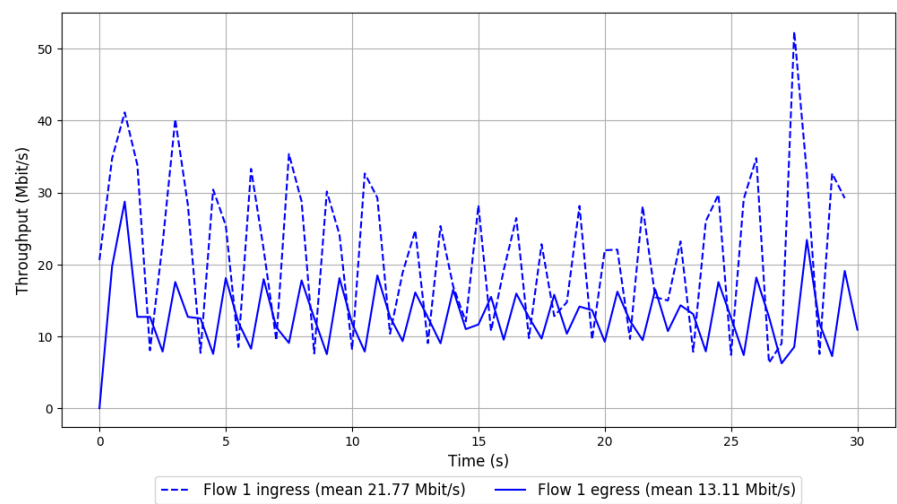
-- Flow 1:

Average throughput: 13.11 Mbit/s

95th percentile per-packet one-way delay: 17.667 ms

Loss rate: 39.79%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-27 23:27:45

End at: 2018-08-27 23:28:15

Local clock offset: 0.436 ms

Remote clock offset: 4.607 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 18.390 ms

Loss rate: 44.09%

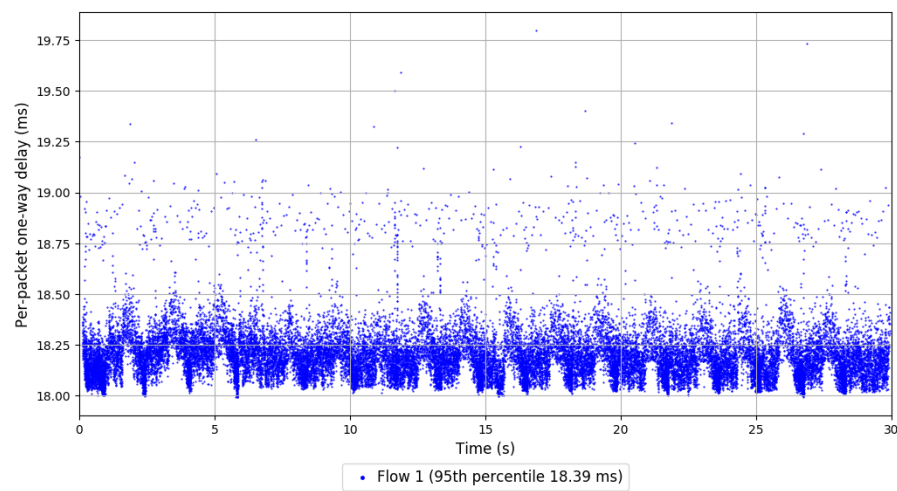
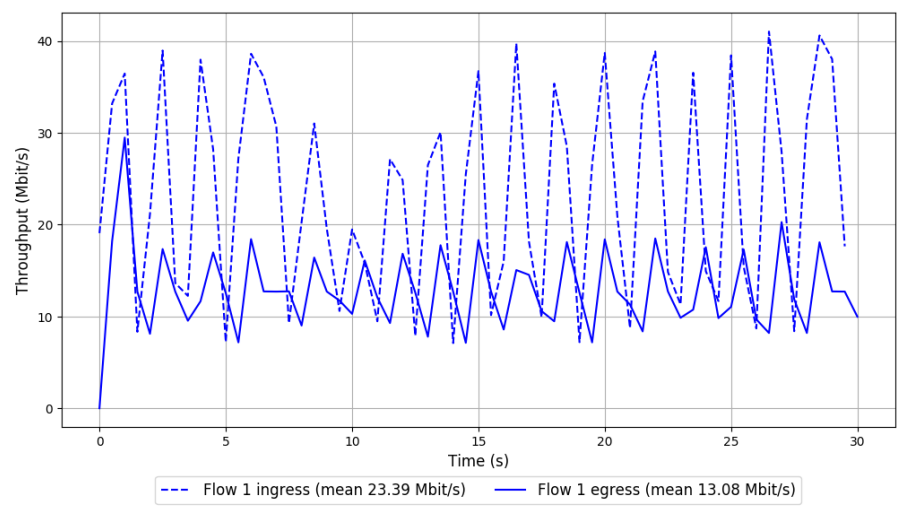
-- Flow 1:

Average throughput: 13.08 Mbit/s

95th percentile per-packet one-way delay: 18.390 ms

Loss rate: 44.09%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-27 23:52:14

End at: 2018-08-27 23:52:44

Local clock offset: 0.167 ms

Remote clock offset: 0.103 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 19.027 ms

Loss rate: 49.43%

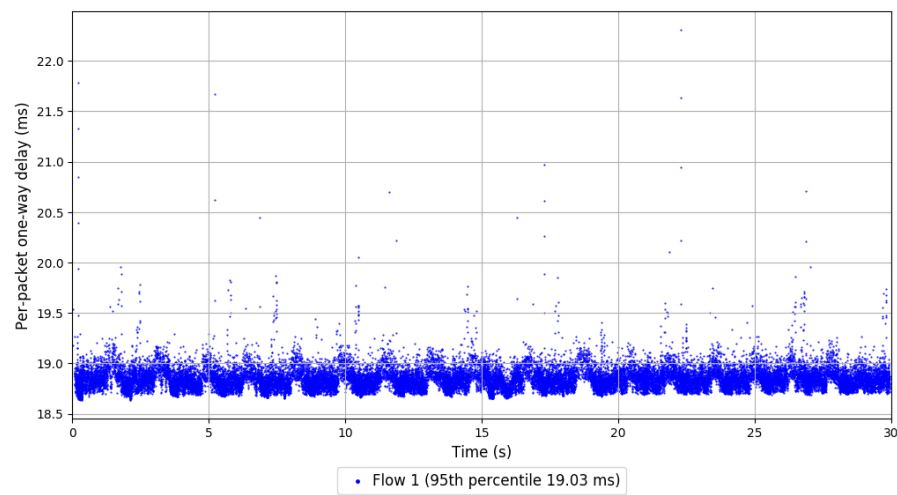
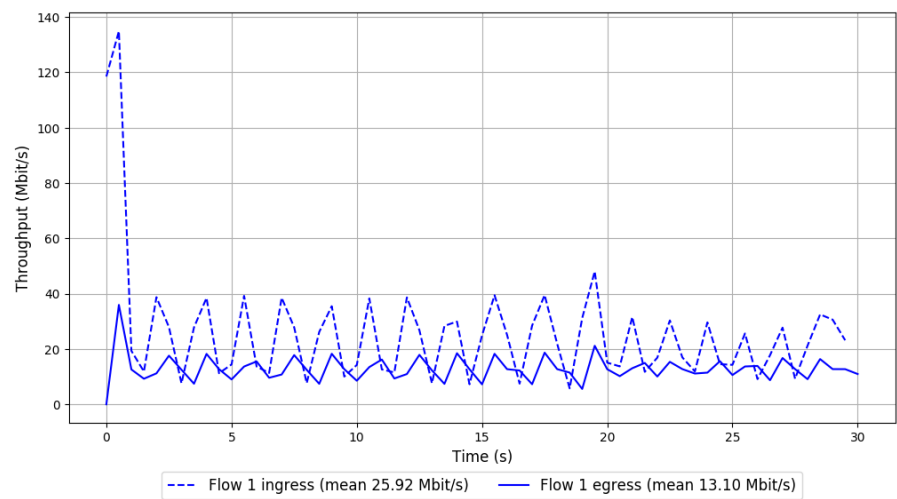
-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 19.027 ms

Loss rate: 49.43%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-28 00:16:48

End at: 2018-08-28 00:17:18

Local clock offset: 0.129 ms

Remote clock offset: -0.75 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 18.339 ms

Loss rate: 59.50%

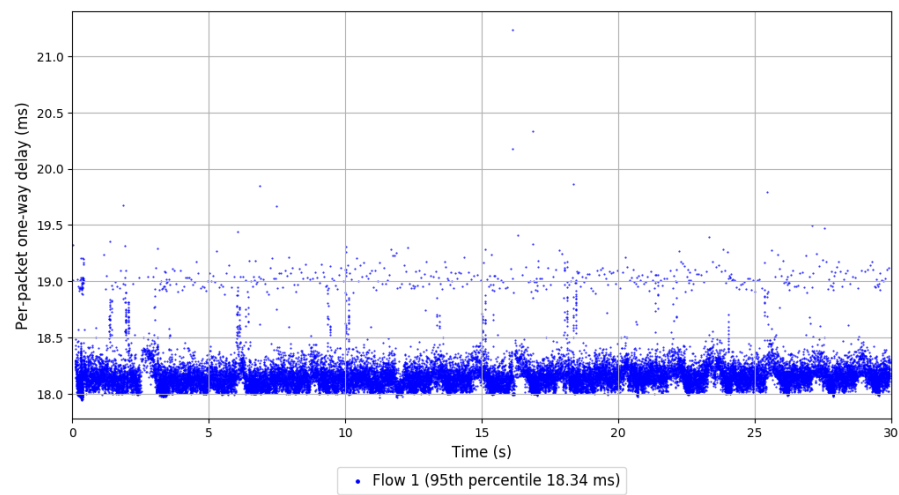
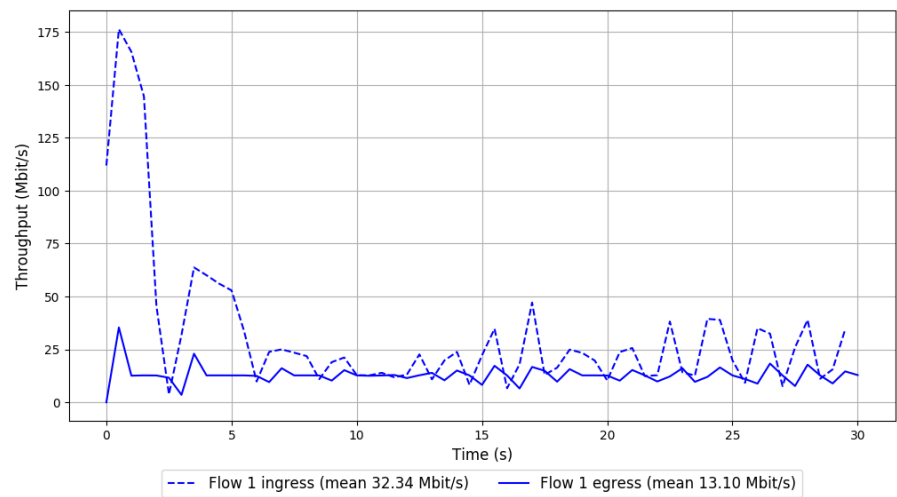
-- Flow 1:

Average throughput: 13.10 Mbit/s

95th percentile per-packet one-way delay: 18.339 ms

Loss rate: 59.50%

Run 9: Report of PCC-Expr — Data Link

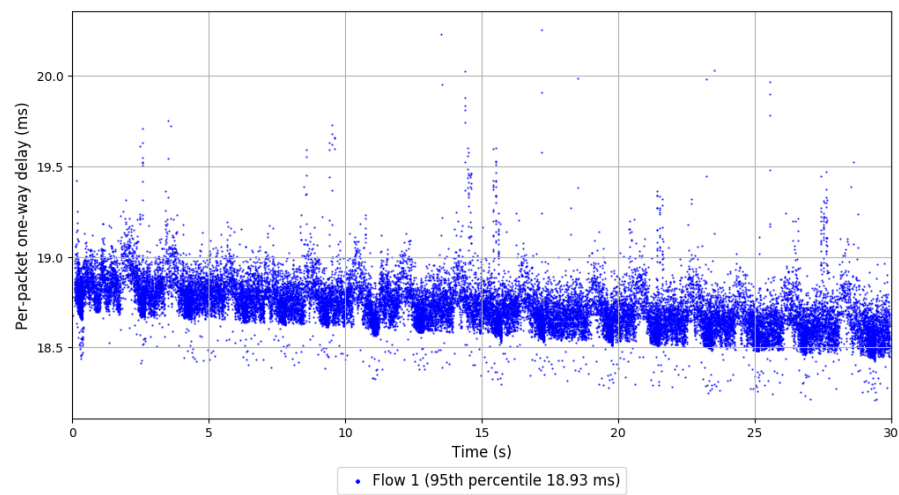
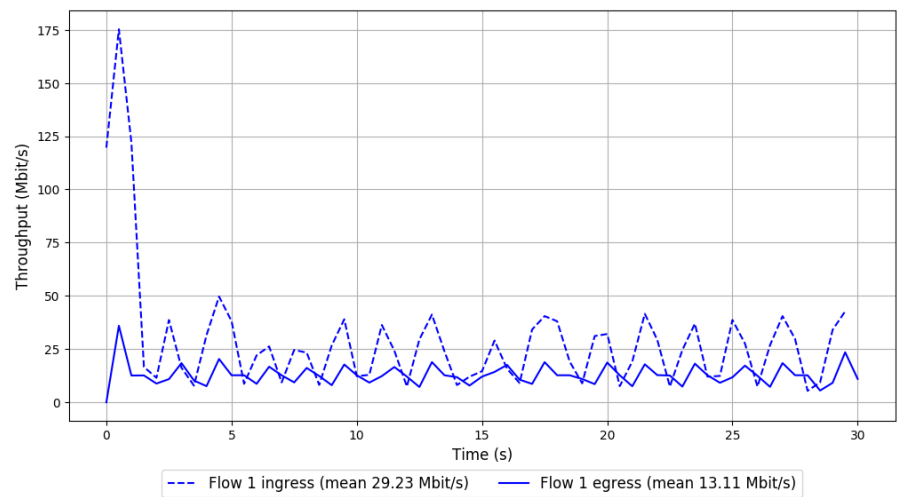


Run 10: Statistics of PCC-Expr

Start at: 2018-08-28 00:41:19
End at: 2018-08-28 00:41:49
Local clock offset: -2.008 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 18.932 ms
Loss rate: 55.17%
-- Flow 1:
Average throughput: 13.11 Mbit/s
95th percentile per-packet one-way delay: 18.932 ms
Loss rate: 55.17%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-08-27 20:38:51

End at: 2018-08-27 20:39:21

Local clock offset: -3.275 ms

Remote clock offset: 3.66 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 18.945 ms

Loss rate: 0.01%

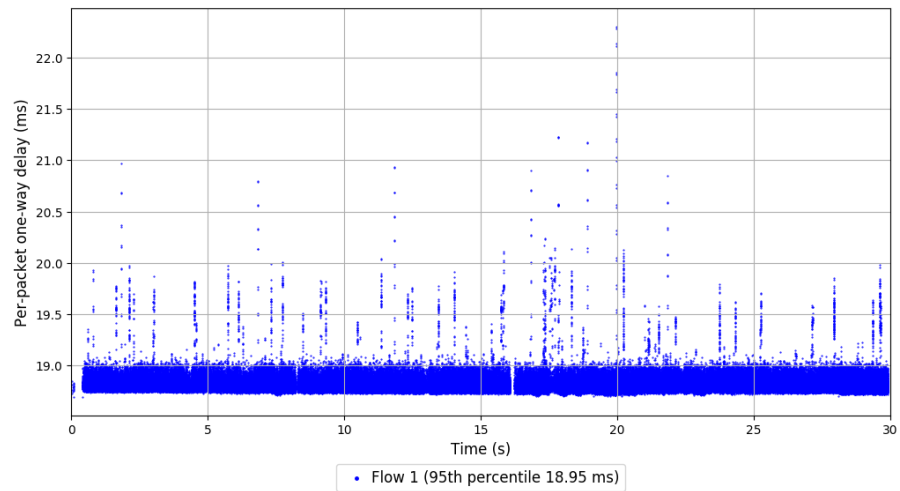
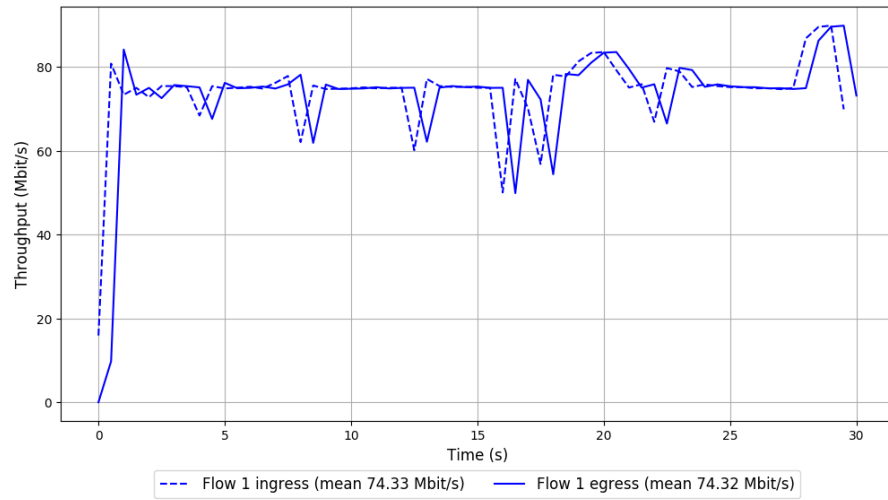
-- Flow 1:

Average throughput: 74.32 Mbit/s

95th percentile per-packet one-way delay: 18.945 ms

Loss rate: 0.01%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 21:03:22

End at: 2018-08-27 21:03:52

Local clock offset: -4.279 ms

Remote clock offset: 3.361 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 19.569 ms

Loss rate: 0.00%

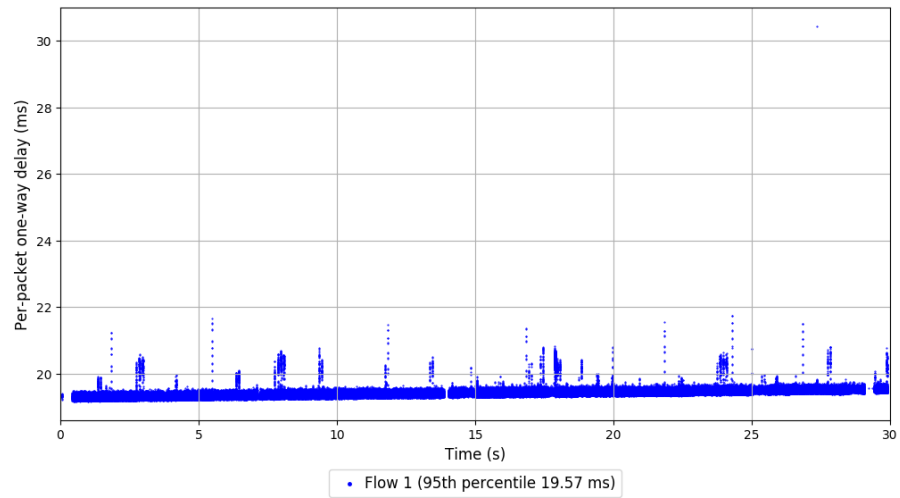
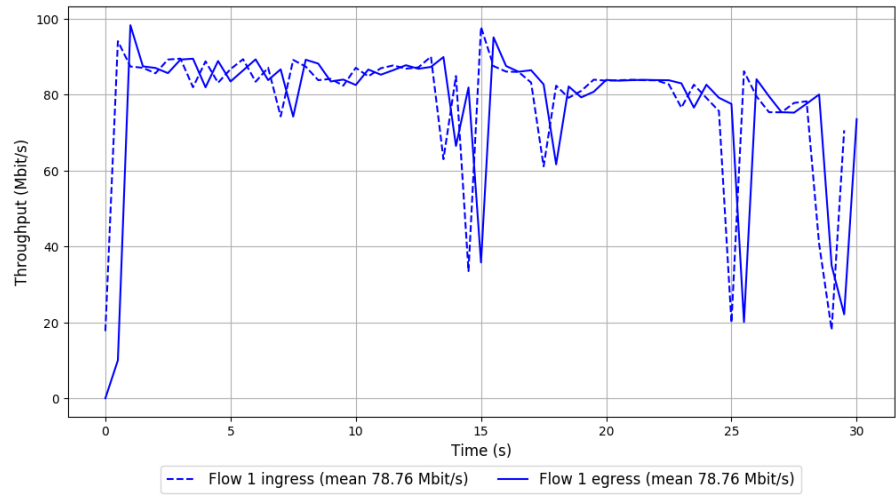
-- Flow 1:

Average throughput: 78.76 Mbit/s

95th percentile per-packet one-way delay: 19.569 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-08-27 21:27:52

End at: 2018-08-27 21:28:22

Local clock offset: 0.005 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.70 Mbit/s

95th percentile per-packet one-way delay: 19.014 ms

Loss rate: 0.01%

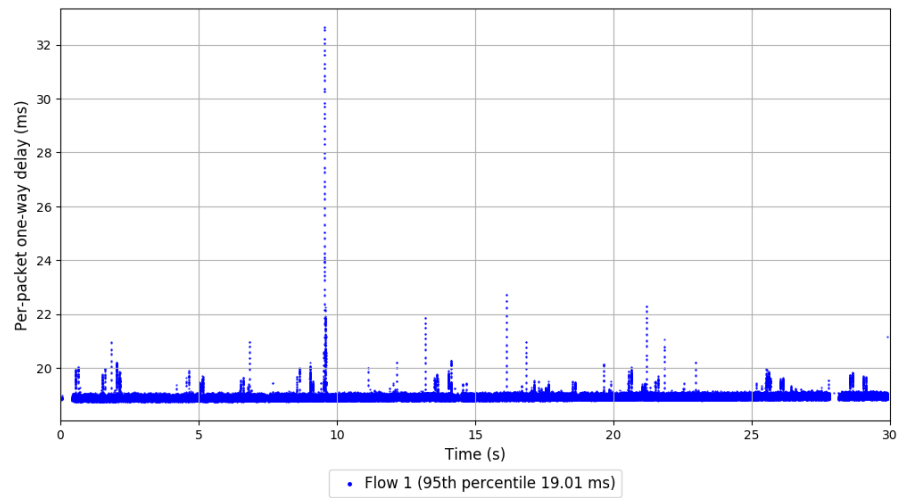
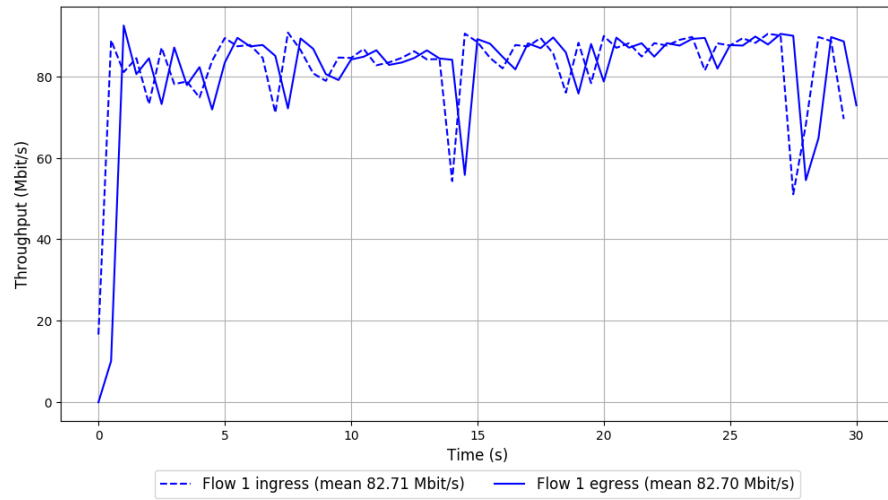
-- Flow 1:

Average throughput: 82.70 Mbit/s

95th percentile per-packet one-way delay: 19.014 ms

Loss rate: 0.01%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-27 21:52:27

End at: 2018-08-27 21:52:57

Local clock offset: 0.275 ms

Remote clock offset: -1.066 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 18.207 ms

Loss rate: 0.00%

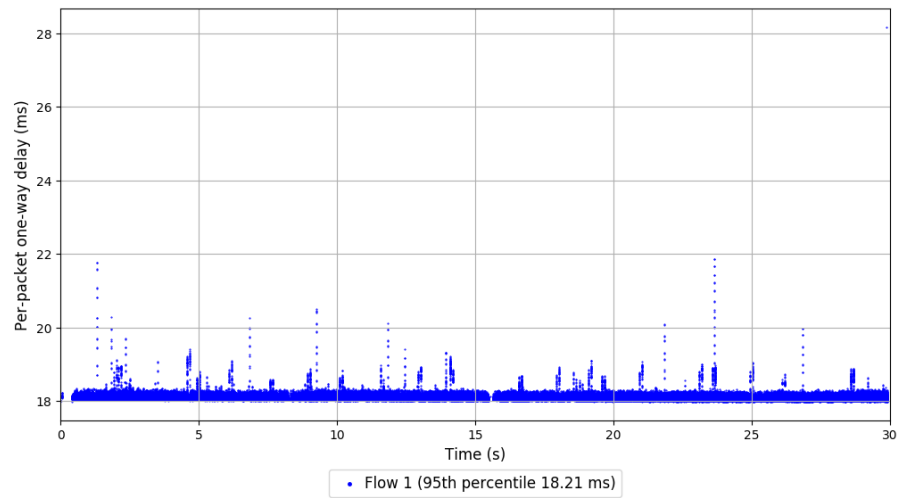
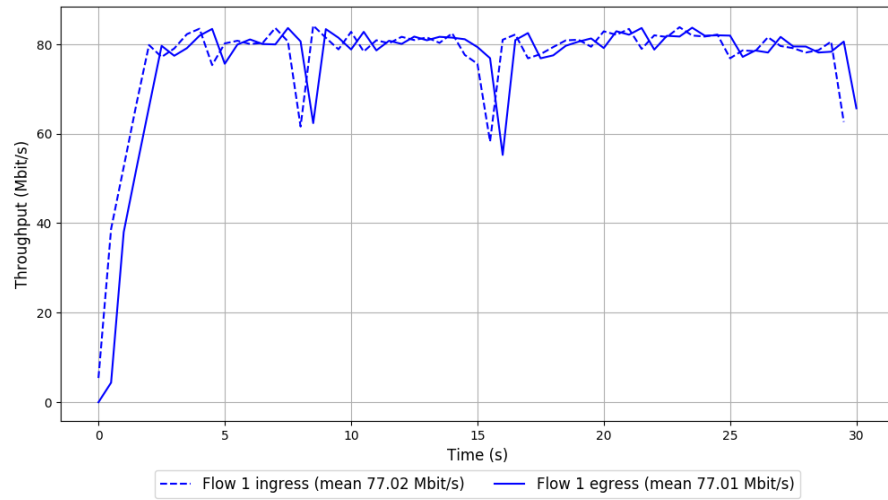
-- Flow 1:

Average throughput: 77.01 Mbit/s

95th percentile per-packet one-way delay: 18.207 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-27 22:16:57

End at: 2018-08-27 22:17:27

Local clock offset: 0.378 ms

Remote clock offset: -0.677 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 18.203 ms

Loss rate: 0.00%

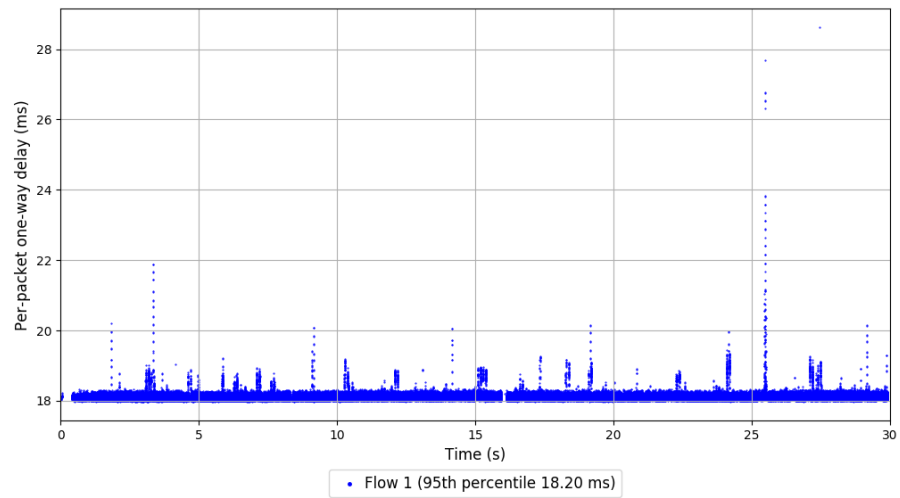
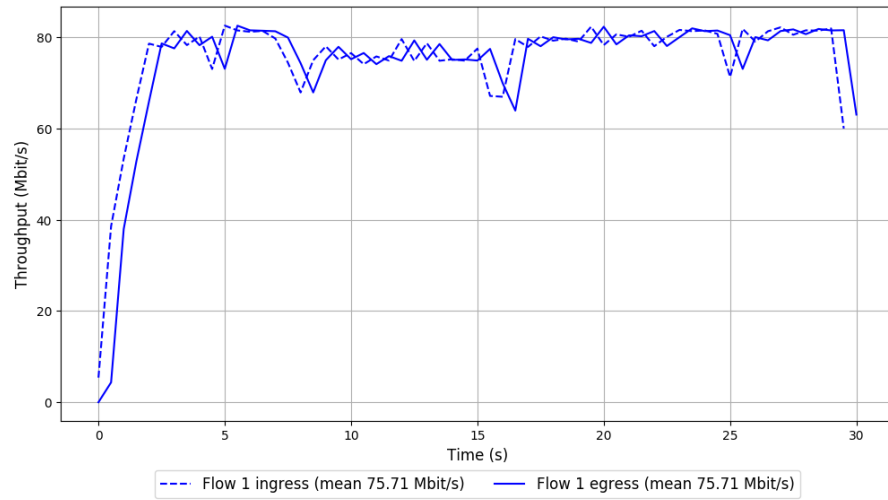
-- Flow 1:

Average throughput: 75.71 Mbit/s

95th percentile per-packet one-way delay: 18.203 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 22:41:26

End at: 2018-08-27 22:41:56

Local clock offset: 0.378 ms

Remote clock offset: -0.248 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 17.313 ms

Loss rate: 0.01%

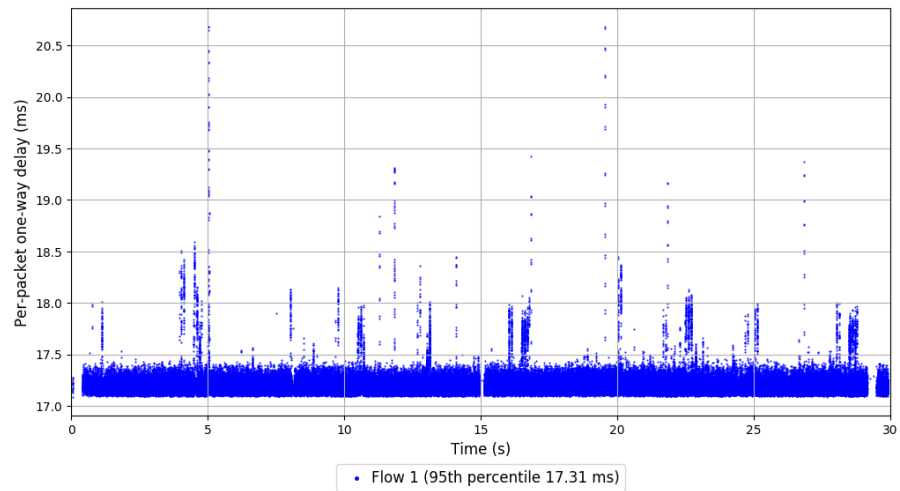
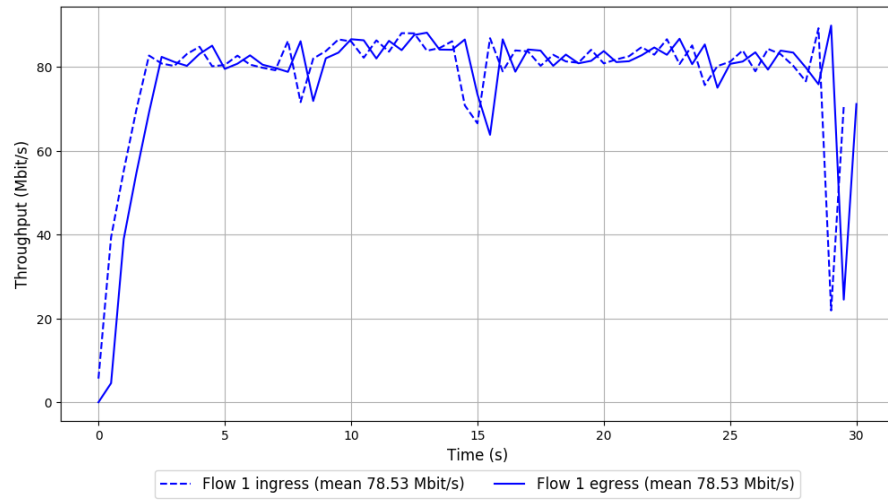
-- Flow 1:

Average throughput: 78.53 Mbit/s

95th percentile per-packet one-way delay: 17.313 ms

Loss rate: 0.01%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-08-27 23:05:56

End at: 2018-08-27 23:06:26

Local clock offset: 0.444 ms

Remote clock offset: 2.432 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.91 Mbit/s

95th percentile per-packet one-way delay: 18.076 ms

Loss rate: 0.00%

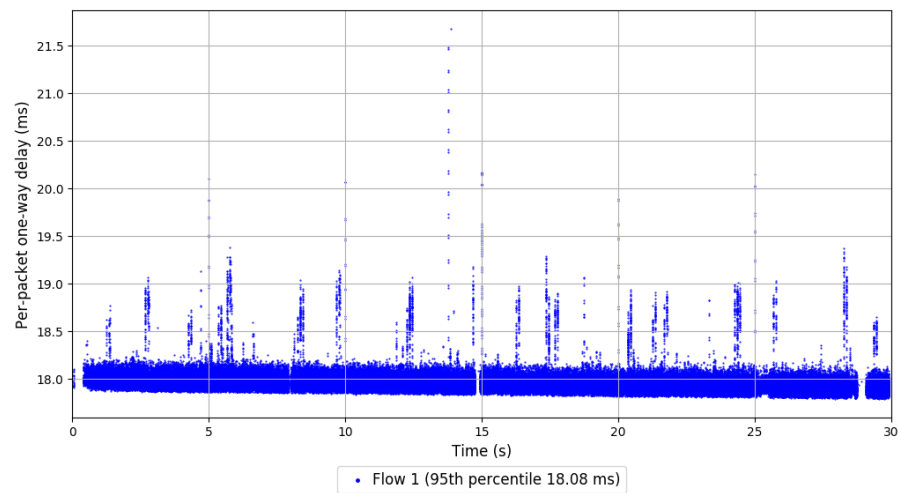
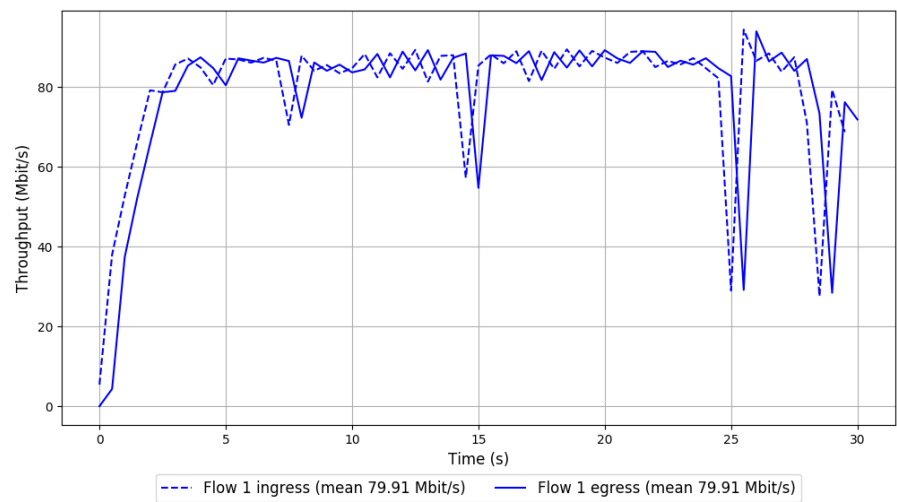
-- Flow 1:

Average throughput: 79.91 Mbit/s

95th percentile per-packet one-way delay: 18.076 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-27 23:30:29

End at: 2018-08-27 23:30:59

Local clock offset: 0.521 ms

Remote clock offset: 4.704 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 19.276 ms

Loss rate: 0.01%

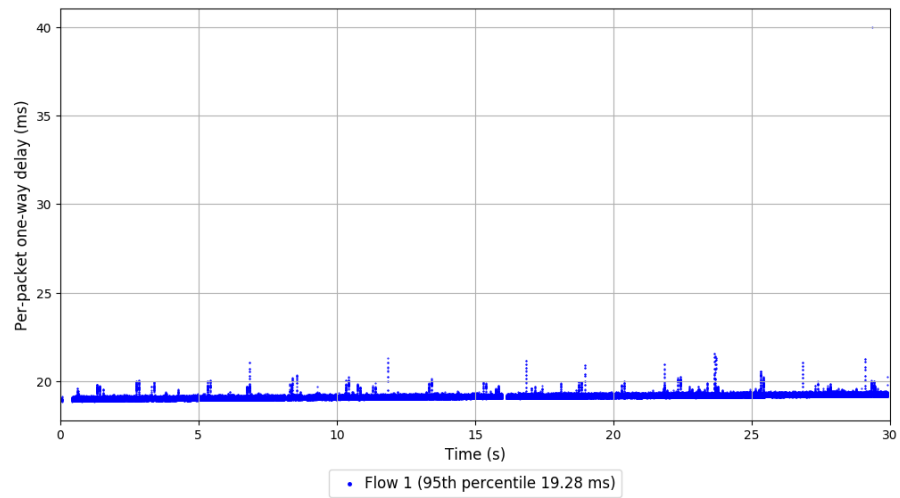
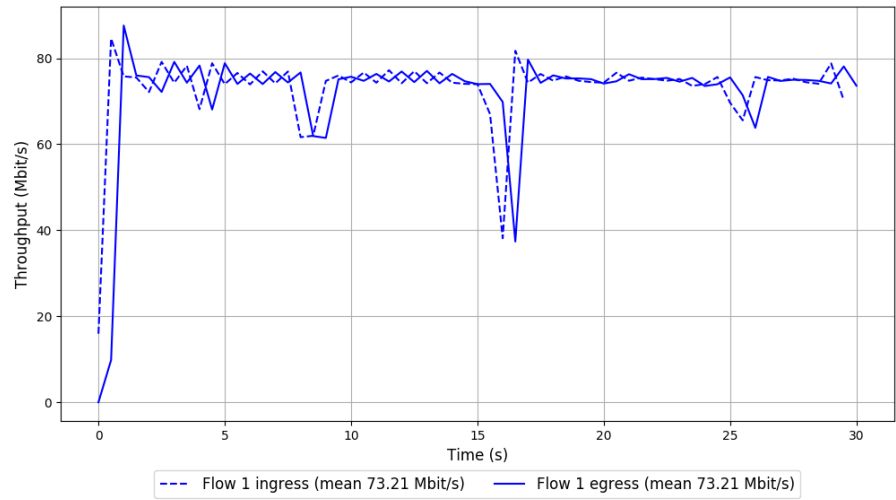
-- Flow 1:

Average throughput: 73.21 Mbit/s

95th percentile per-packet one-way delay: 19.276 ms

Loss rate: 0.01%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-27 23:54:57

End at: 2018-08-27 23:55:27

Local clock offset: 0.076 ms

Remote clock offset: -0.029 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 0.00%

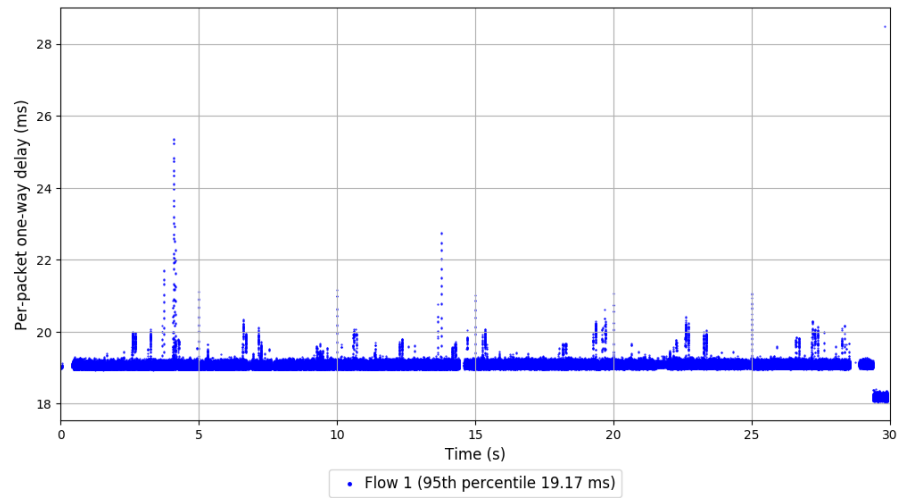
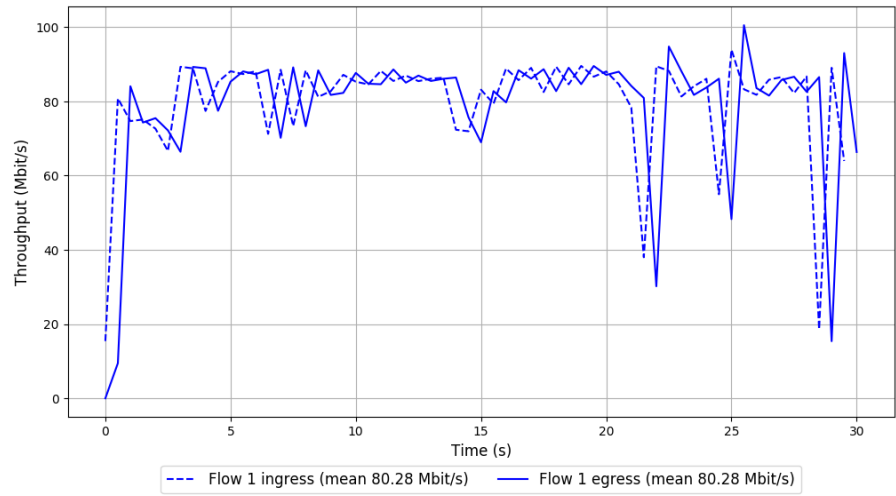
-- Flow 1:

Average throughput: 80.28 Mbit/s

95th percentile per-packet one-way delay: 19.173 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-28 00:19:35

End at: 2018-08-28 00:20:05

Local clock offset: 0.106 ms

Remote clock offset: -0.921 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.00%

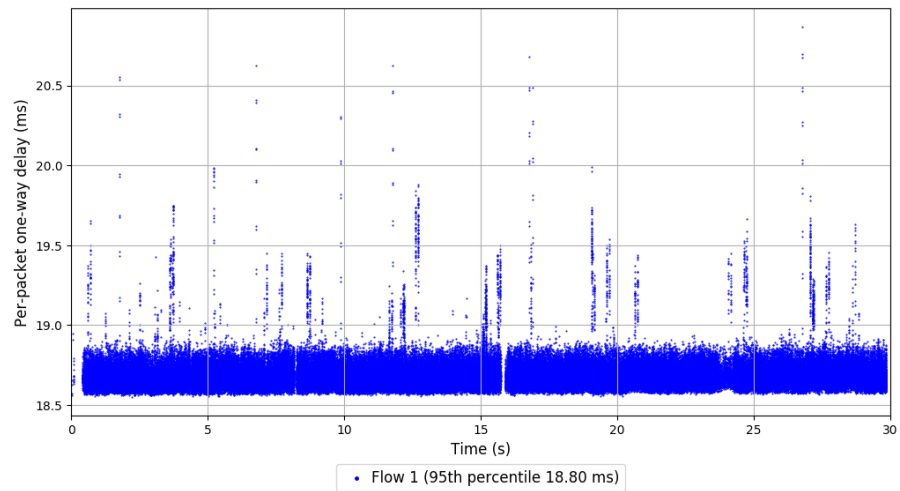
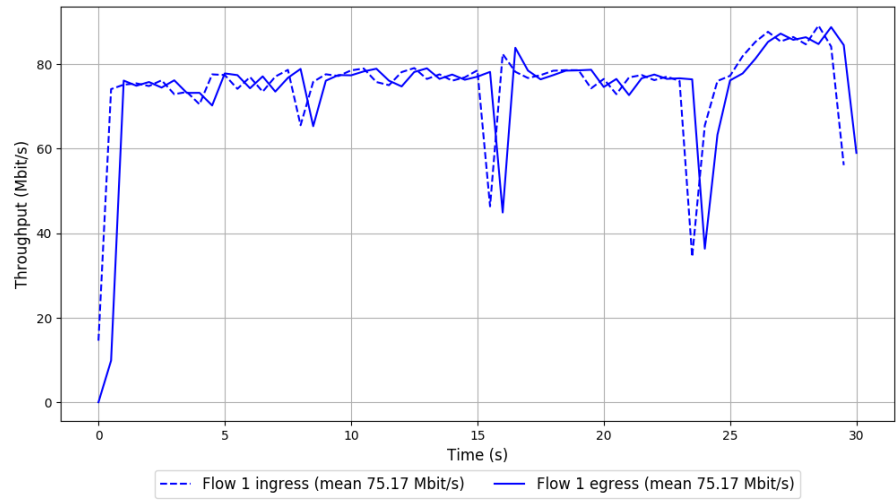
-- Flow 1:

Average throughput: 75.17 Mbit/s

95th percentile per-packet one-way delay: 18.797 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

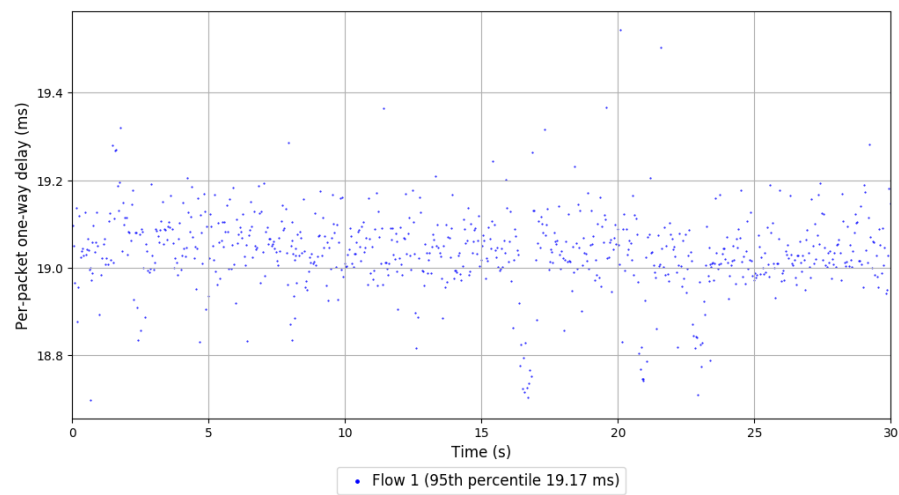
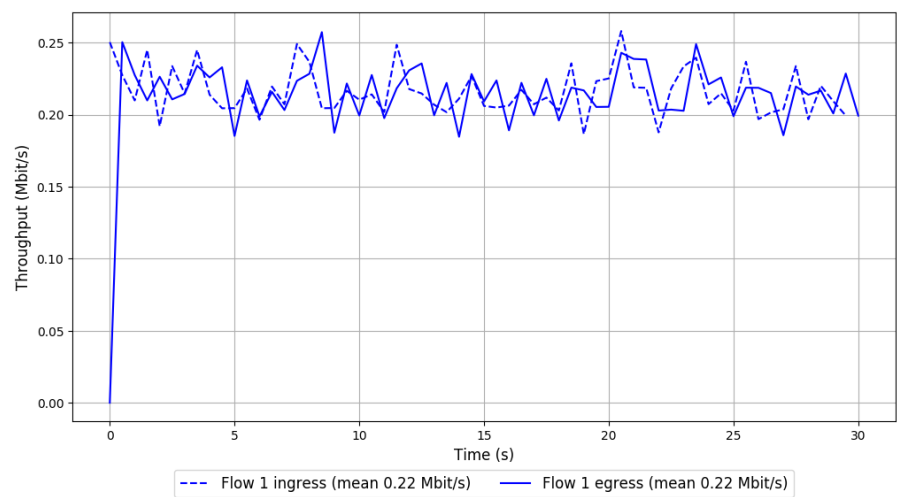


```
Run 1: Statistics of SCReAM

Start at: 2018-08-27 20:44:10
End at: 2018-08-27 20:44:40
Local clock offset: -3.514 ms
Remote clock offset: 3.412 ms

# Below is generated by plot.py at 2018-08-28 02:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.169 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.169 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

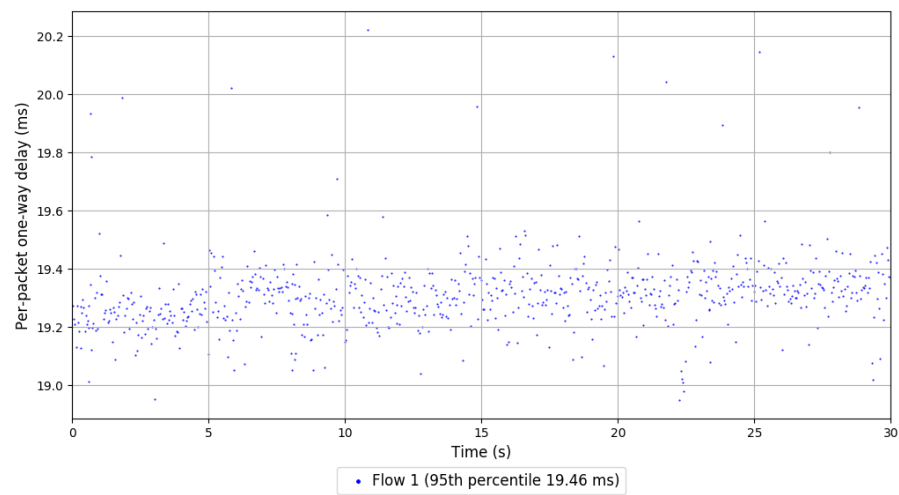
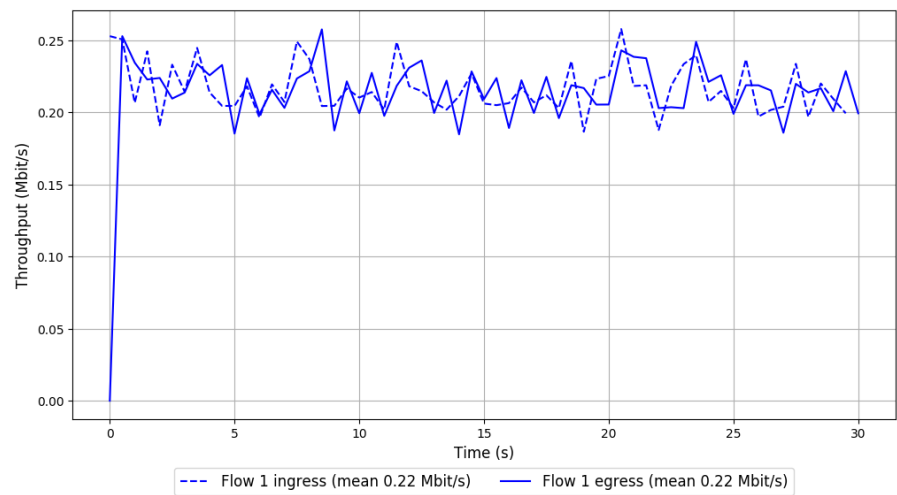


```
Run 2: Statistics of SCReAM

Start at: 2018-08-27 21:08:38
End at: 2018-08-27 21:09:08
Local clock offset: -2.129 ms
Remote clock offset: 3.472 ms

# Below is generated by plot.py at 2018-08-28 02:02:16
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.465 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.465 ms
Loss rate: 0.00%
```

Run 2: Report of SReAM — Data Link

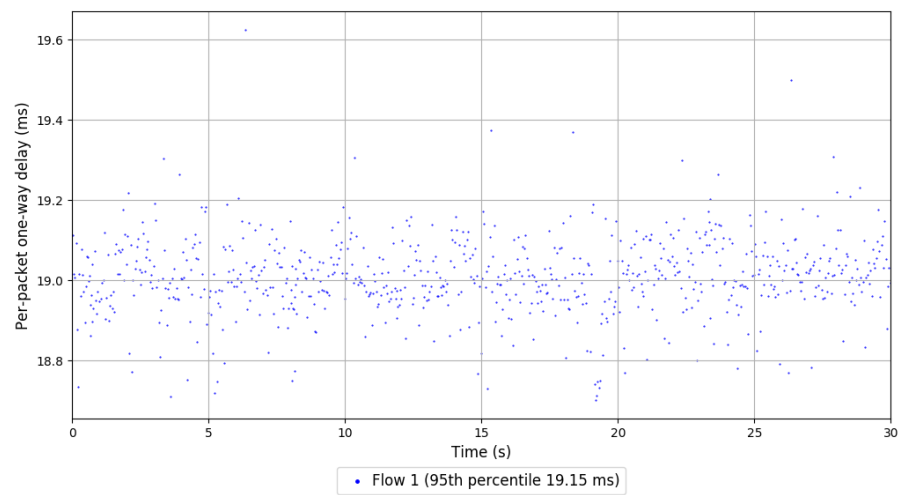
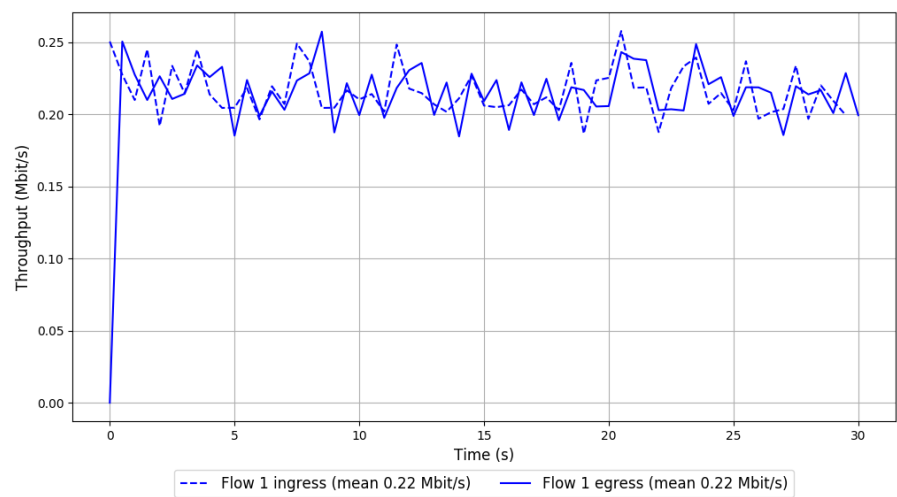


Run 3: Statistics of SCReAM

Start at: 2018-08-27 21:33:11
End at: 2018-08-27 21:33:41
Local clock offset: 0.223 ms
Remote clock offset: -0.842 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.152 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

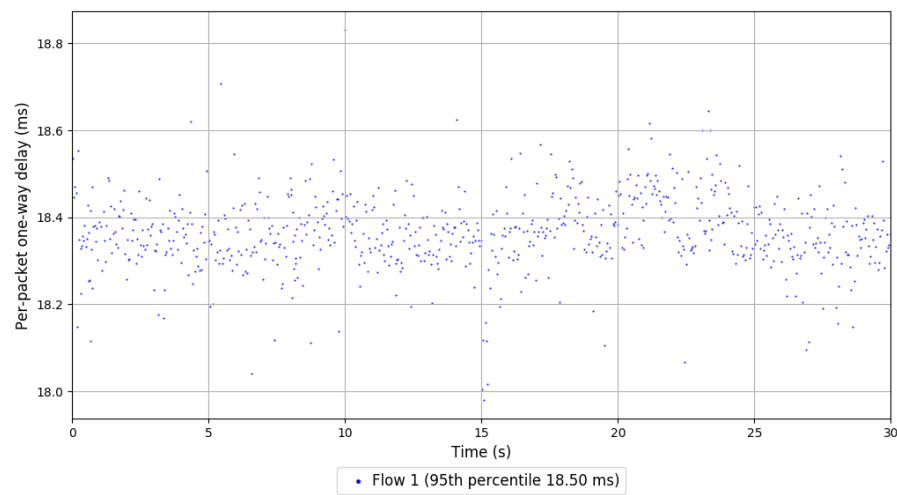
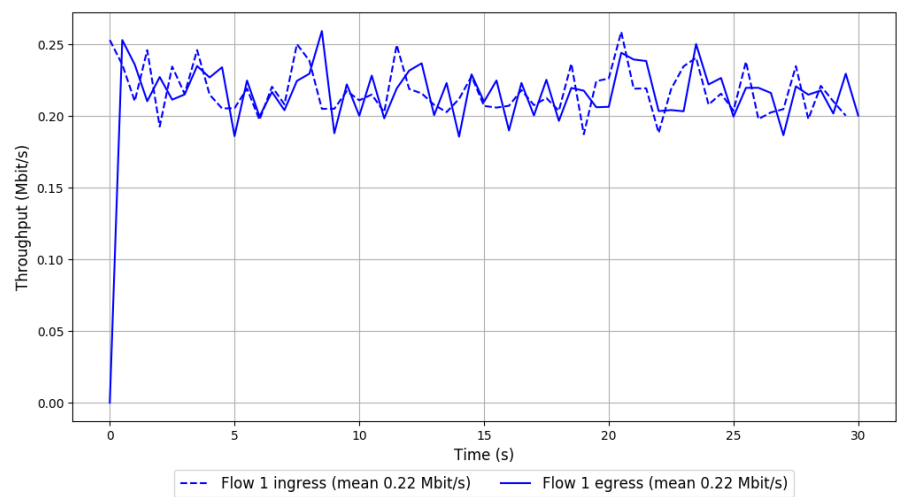


Run 4: Statistics of SCReAM

Start at: 2018-08-27 21:57:45
End at: 2018-08-27 21:58:15
Local clock offset: 0.295 ms
Remote clock offset: -0.769 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.497 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.497 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

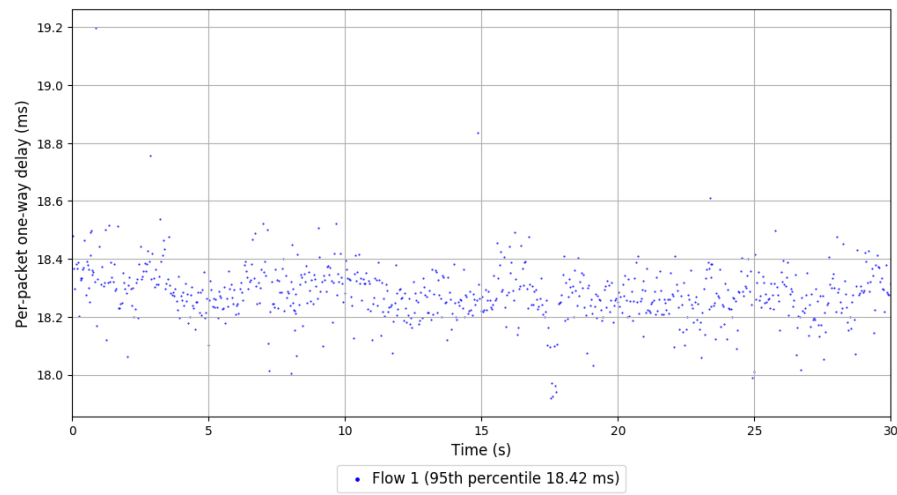
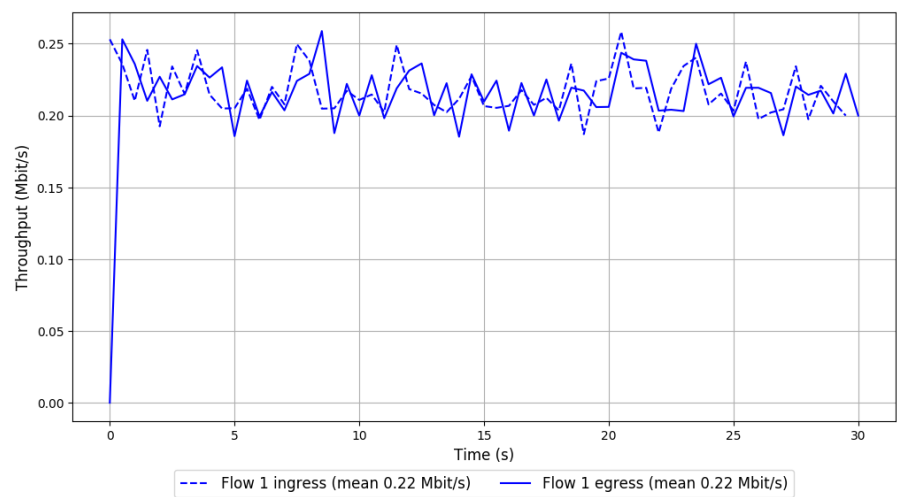


Run 5: Statistics of SCReAM

Start at: 2018-08-27 22:22:13
End at: 2018-08-27 22:22:43
Local clock offset: 0.398 ms
Remote clock offset: -0.813 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.418 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 18.418 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

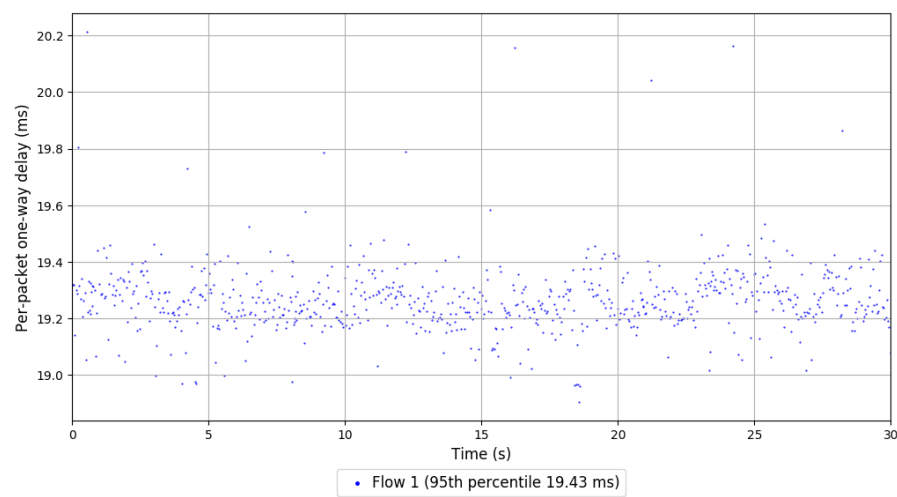
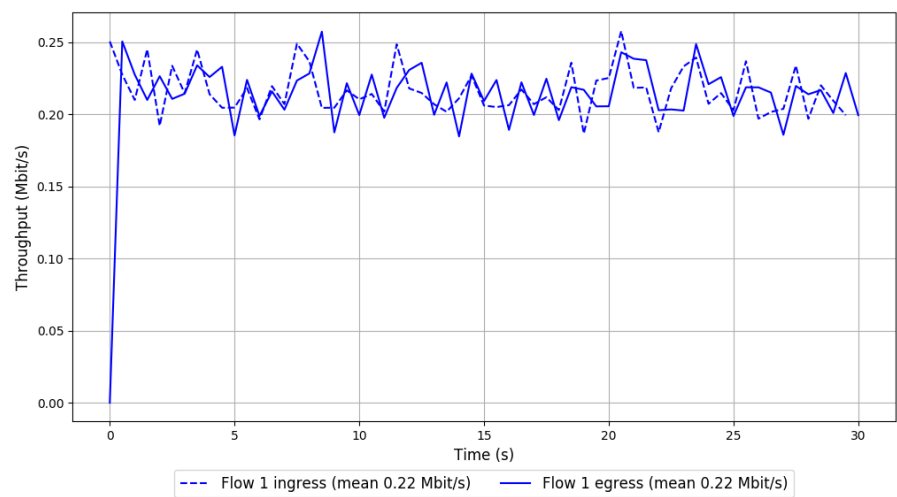


Run 6: Statistics of SCReAM

Start at: 2018-08-27 22:46:42
End at: 2018-08-27 22:47:12
Local clock offset: 0.379 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.425 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-27 23:11:15

End at: 2018-08-27 23:11:45

Local clock offset: 0.437 ms

Remote clock offset: 3.159 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.308 ms

Loss rate: 0.00%

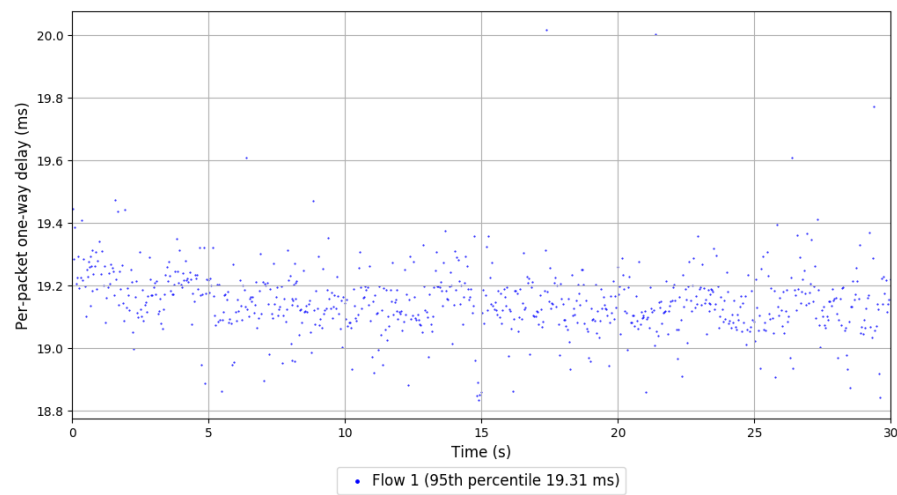
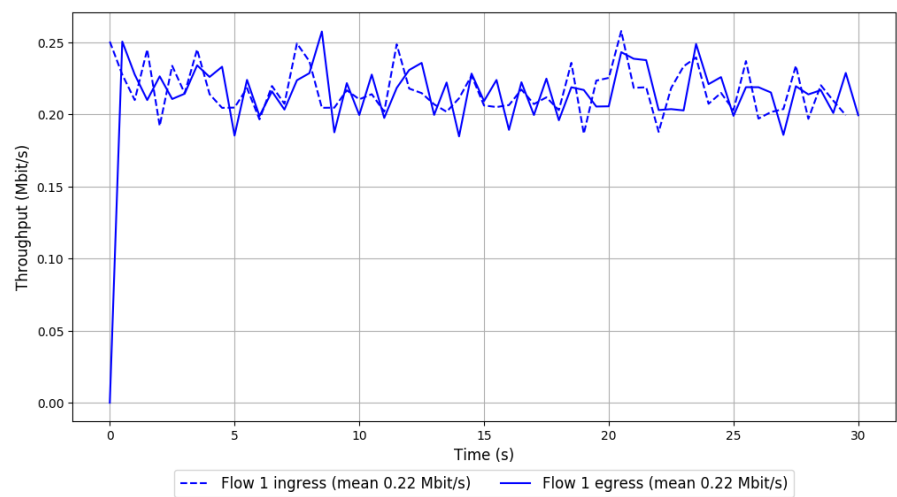
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 19.308 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-27 23:35:46

End at: 2018-08-27 23:36:16

Local clock offset: 0.432 ms

Remote clock offset: 2.565 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.656 ms

Loss rate: 0.00%

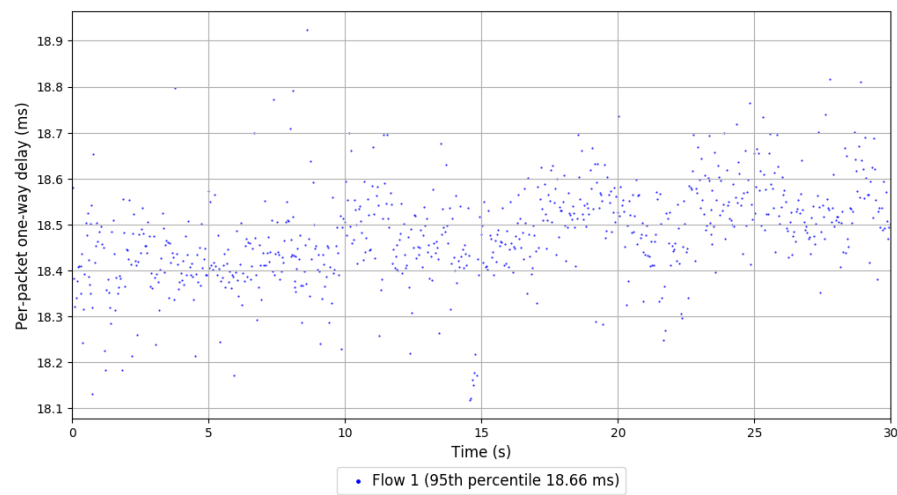
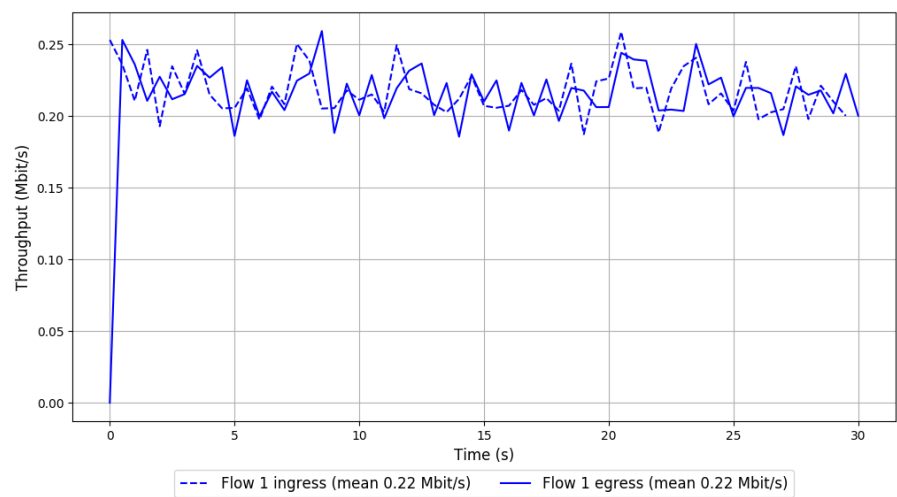
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 18.656 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

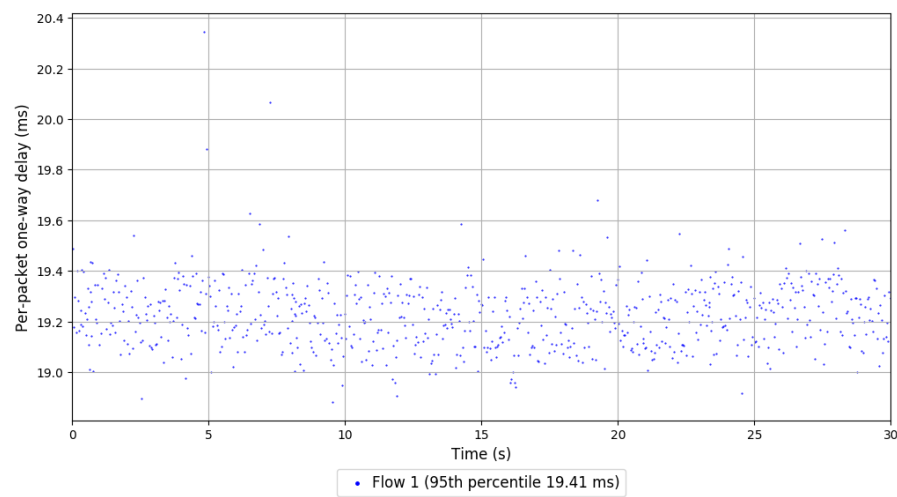
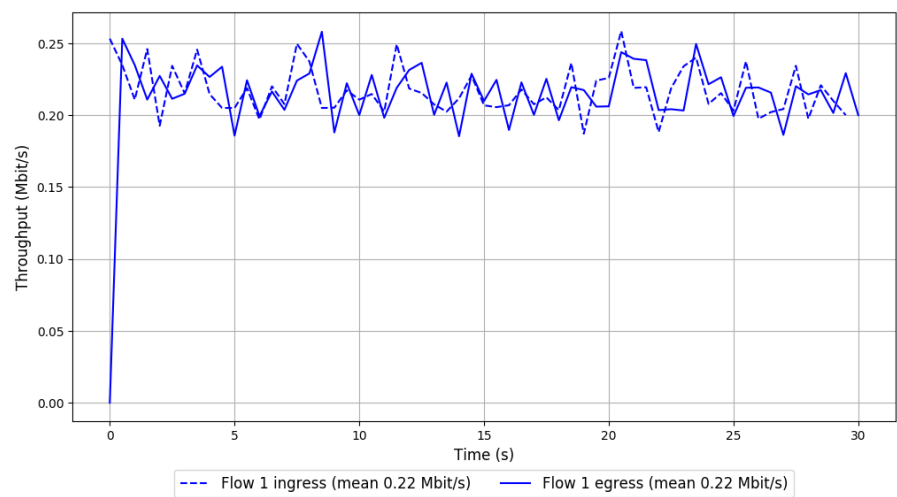


Run 9: Statistics of SCReAM

Start at: 2018-08-28 00:00:14
End at: 2018-08-28 00:00:44
Local clock offset: 0.128 ms
Remote clock offset: -0.217 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.405 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

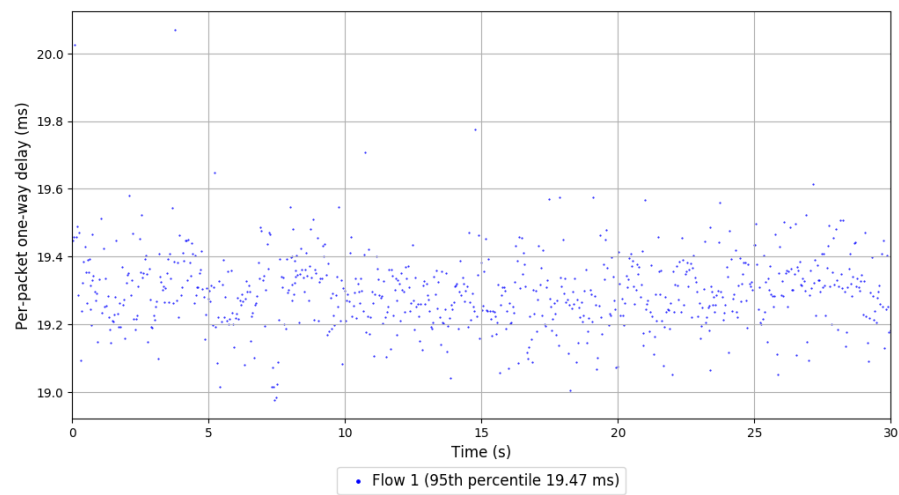
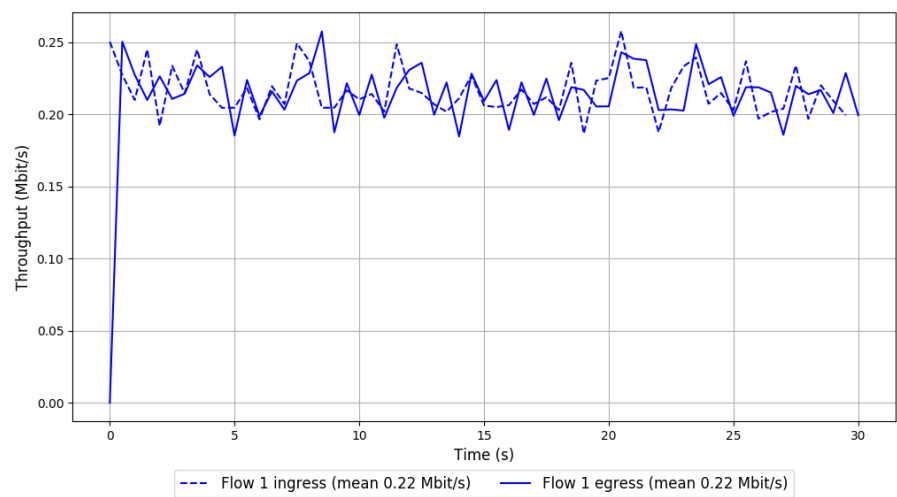


Run 10: Statistics of SReAM

Start at: 2018-08-28 00:24:53
End at: 2018-08-28 00:25:23
Local clock offset: -0.019 ms
Remote clock offset: -1.047 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.470 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 19.470 ms
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-08-27 20:59:20

End at: 2018-08-27 20:59:50

Local clock offset: -4.644 ms

Remote clock offset: 3.296 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 21.376 ms

Loss rate: 0.04%

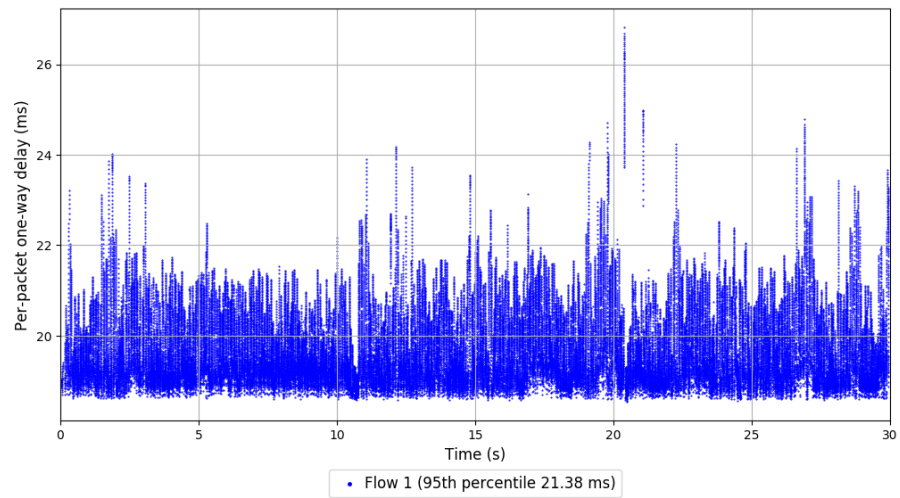
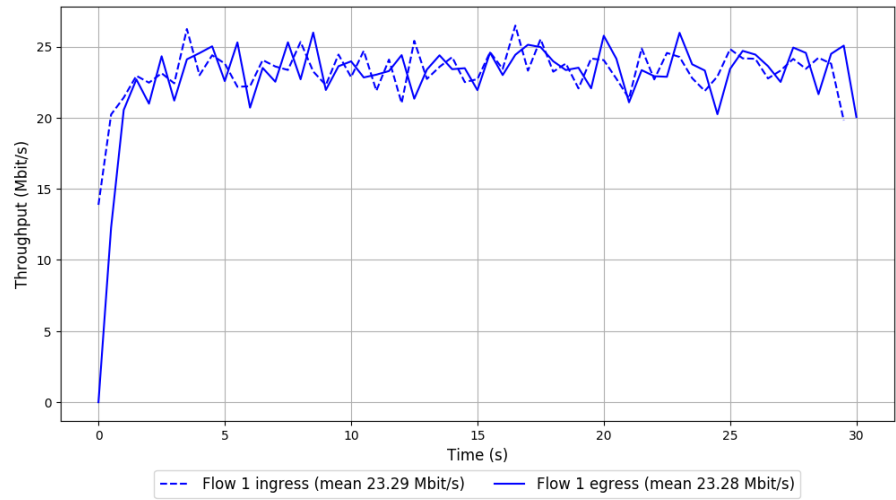
-- Flow 1:

Average throughput: 23.28 Mbit/s

95th percentile per-packet one-way delay: 21.376 ms

Loss rate: 0.04%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-27 21:23:51

End at: 2018-08-27 21:24:21

Local clock offset: -0.148 ms

Remote clock offset: 0.478 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 21.348 ms

Loss rate: 0.04%

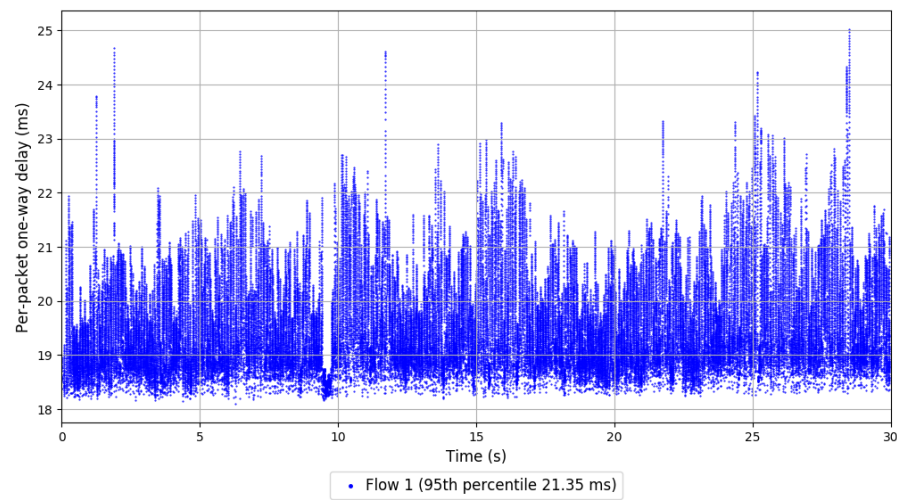
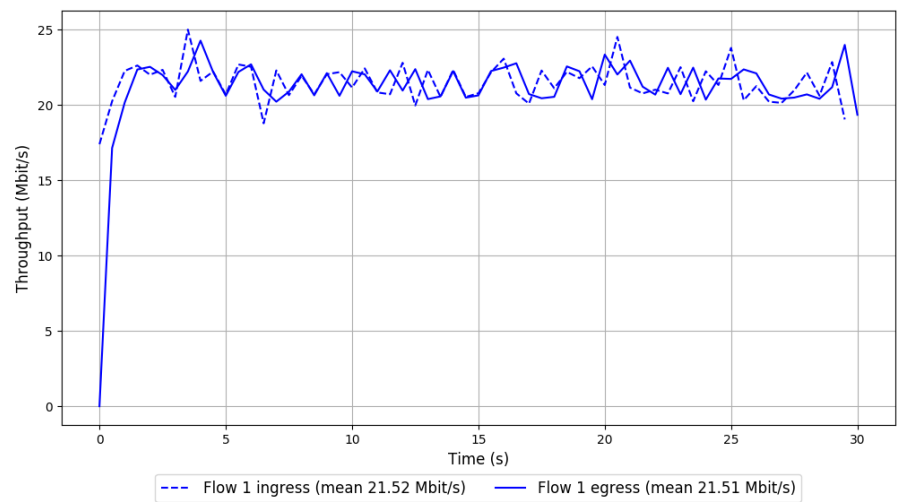
-- Flow 1:

Average throughput: 21.51 Mbit/s

95th percentile per-packet one-way delay: 21.348 ms

Loss rate: 0.04%

Run 2: Report of Sprout — Data Link

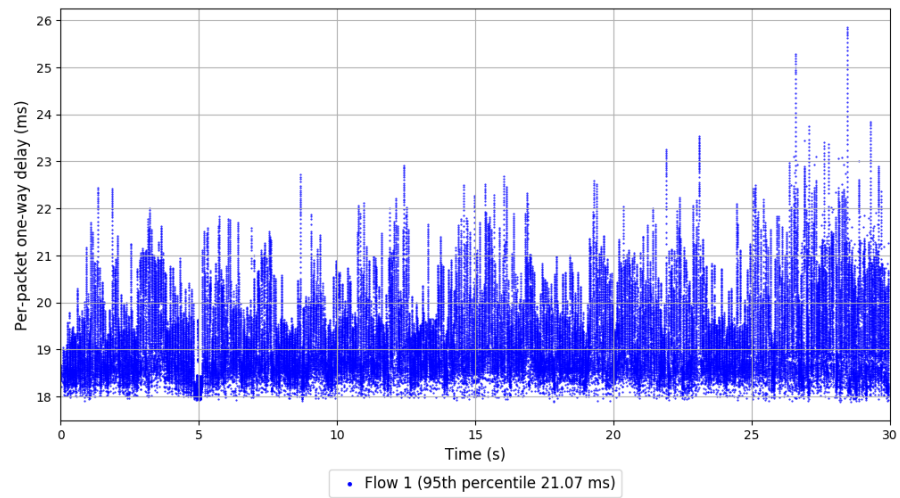
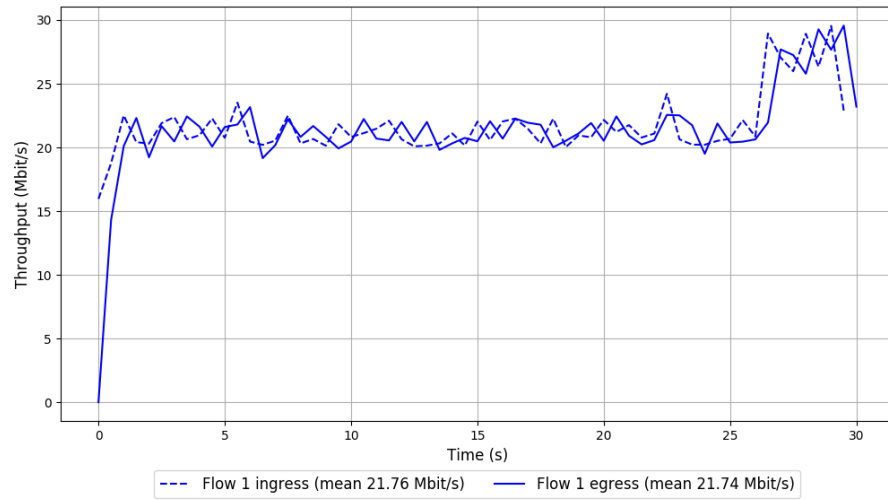


Run 3: Statistics of Sprout

Start at: 2018-08-27 21:48:25
End at: 2018-08-27 21:48:55
Local clock offset: 0.279 ms
Remote clock offset: -1.725 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 21.069 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 21.74 Mbit/s
95th percentile per-packet one-way delay: 21.069 ms
Loss rate: 0.11%

Run 3: Report of Sprout — Data Link

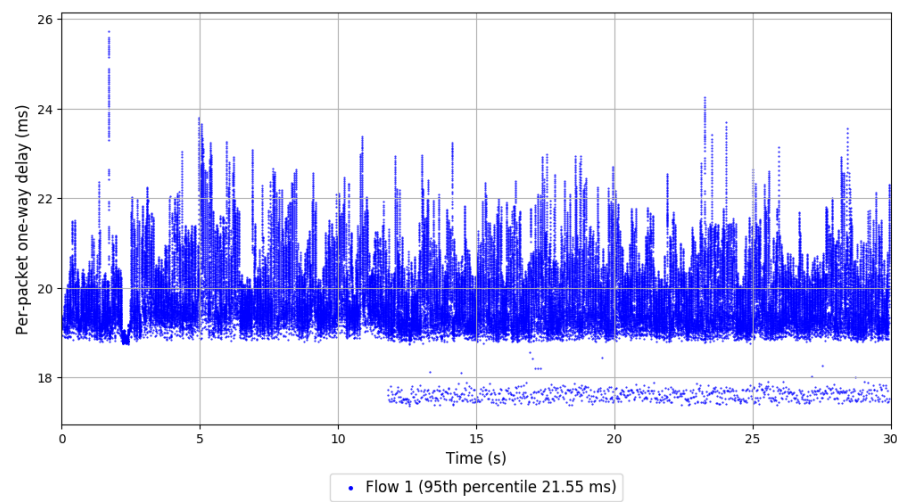
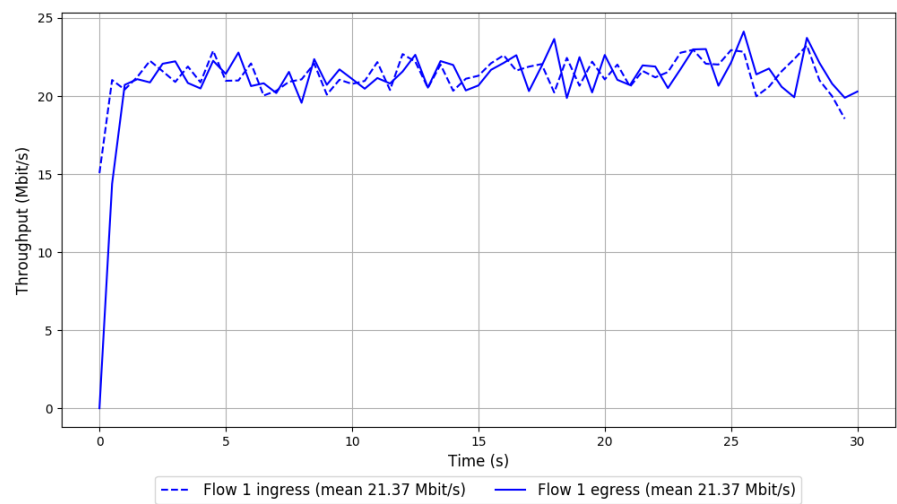


Run 4: Statistics of Sprout

Start at: 2018-08-27 22:12:58
End at: 2018-08-27 22:13:28
Local clock offset: 0.293 ms
Remote clock offset: -0.614 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 21.550 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.37 Mbit/s
95th percentile per-packet one-way delay: 21.550 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-27 22:37:22

End at: 2018-08-27 22:37:52

Local clock offset: 0.394 ms

Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 21.995 ms

Loss rate: 0.02%

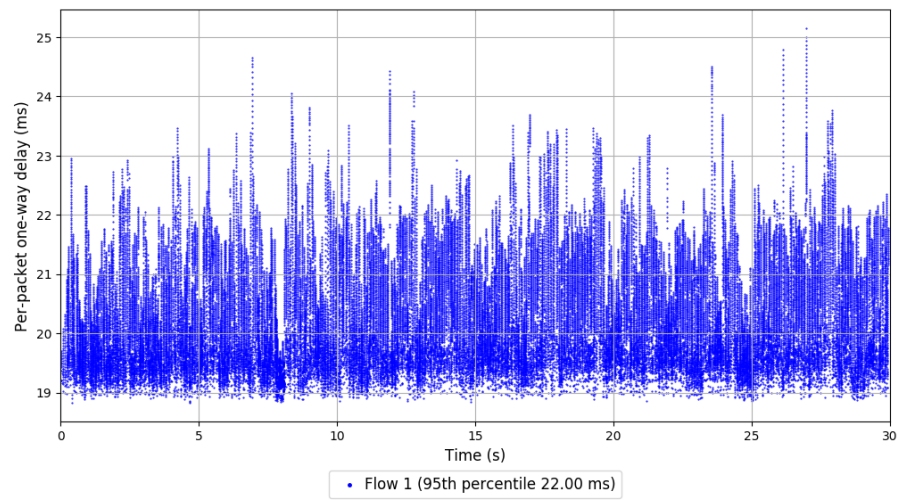
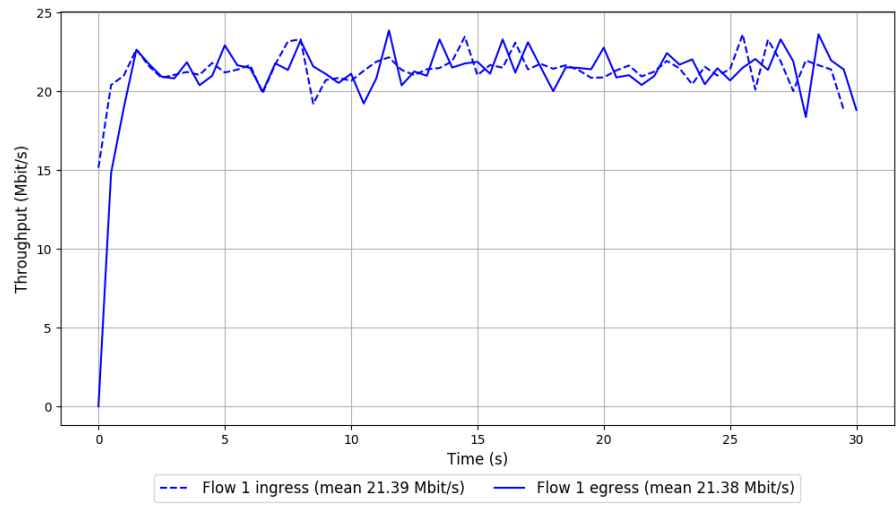
-- Flow 1:

Average throughput: 21.38 Mbit/s

95th percentile per-packet one-way delay: 21.995 ms

Loss rate: 0.02%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-27 23:01:55

End at: 2018-08-27 23:02:25

Local clock offset: 0.426 ms

Remote clock offset: 1.553 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 20.981 ms

Loss rate: 0.18%

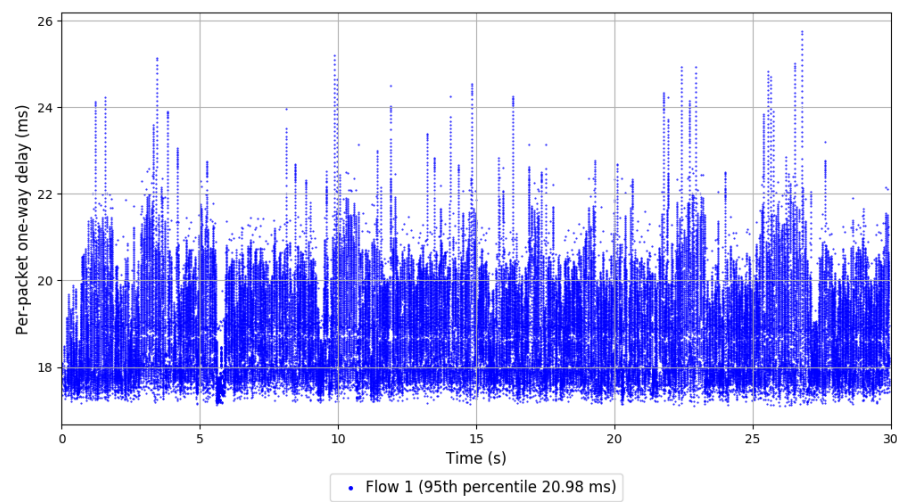
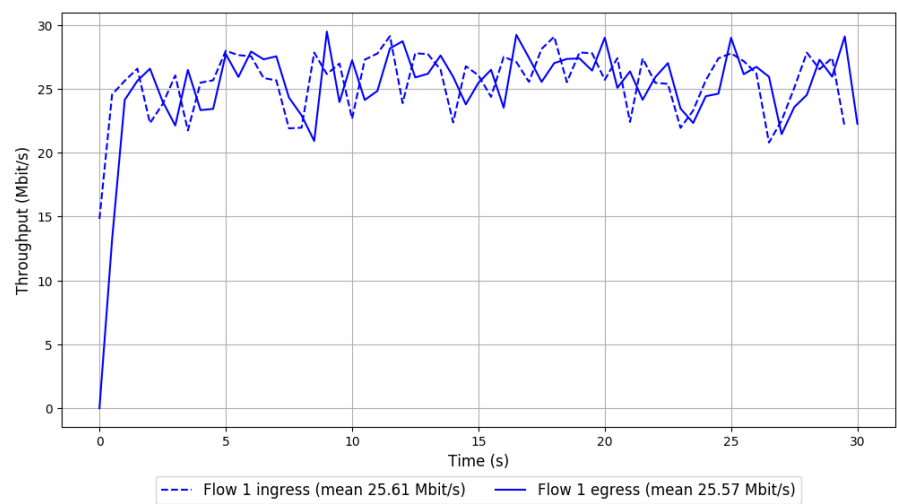
-- Flow 1:

Average throughput: 25.57 Mbit/s

95th percentile per-packet one-way delay: 20.981 ms

Loss rate: 0.18%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-08-27 23:26:26

End at: 2018-08-27 23:26:56

Local clock offset: 0.523 ms

Remote clock offset: 4.521 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 21.273 ms

Loss rate: 0.03%

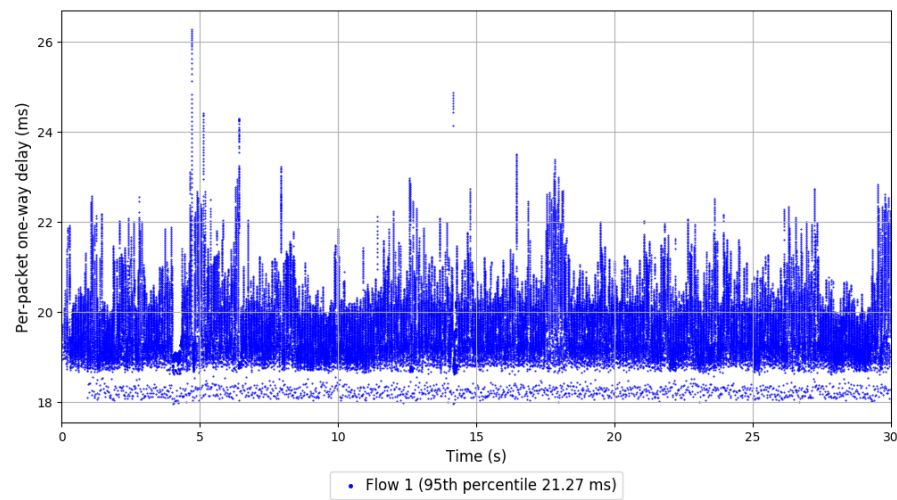
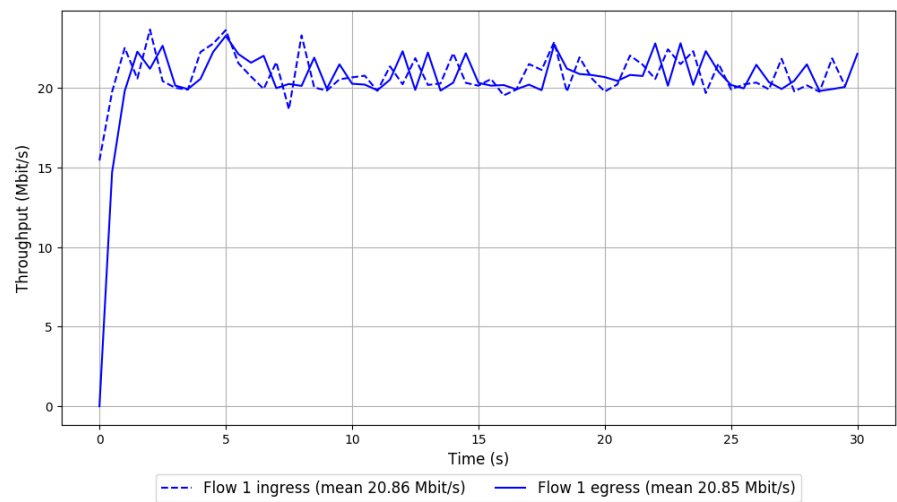
-- Flow 1:

Average throughput: 20.85 Mbit/s

95th percentile per-packet one-way delay: 21.273 ms

Loss rate: 0.03%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-27 23:50:56

End at: 2018-08-27 23:51:26

Local clock offset: 0.091 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 22.193 ms

Loss rate: 0.04%

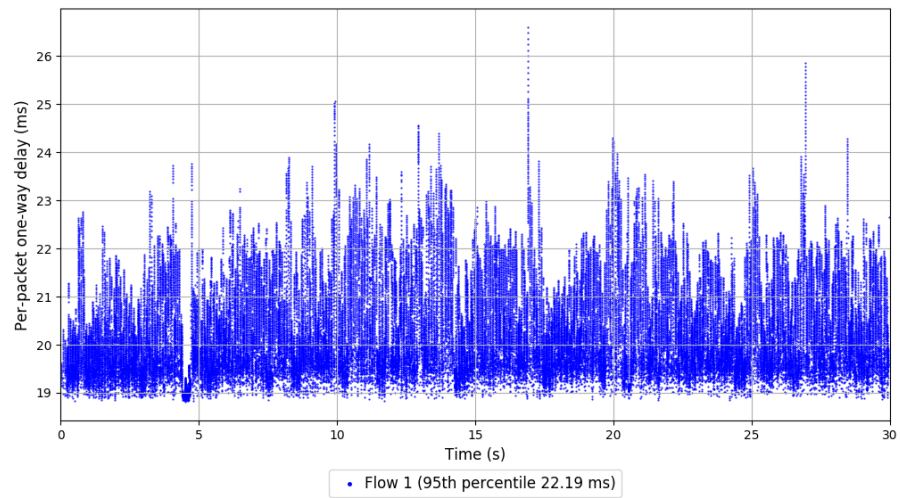
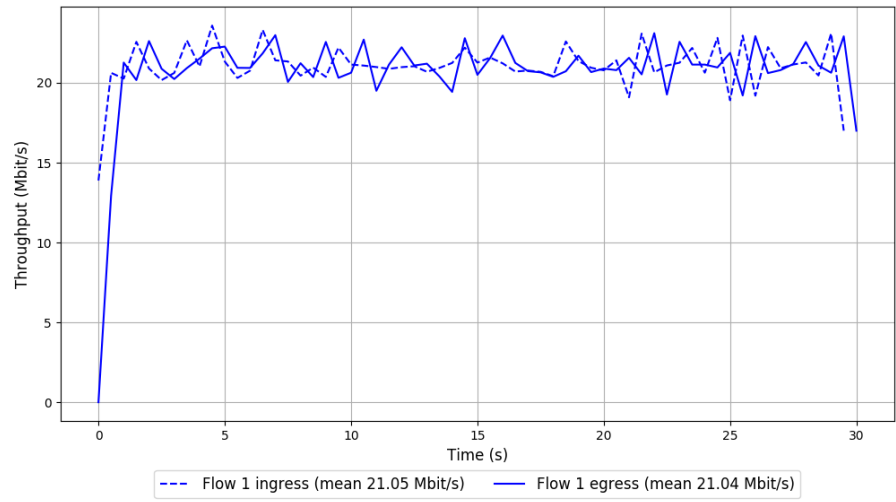
-- Flow 1:

Average throughput: 21.04 Mbit/s

95th percentile per-packet one-way delay: 22.193 ms

Loss rate: 0.04%

Run 8: Report of Sprout — Data Link

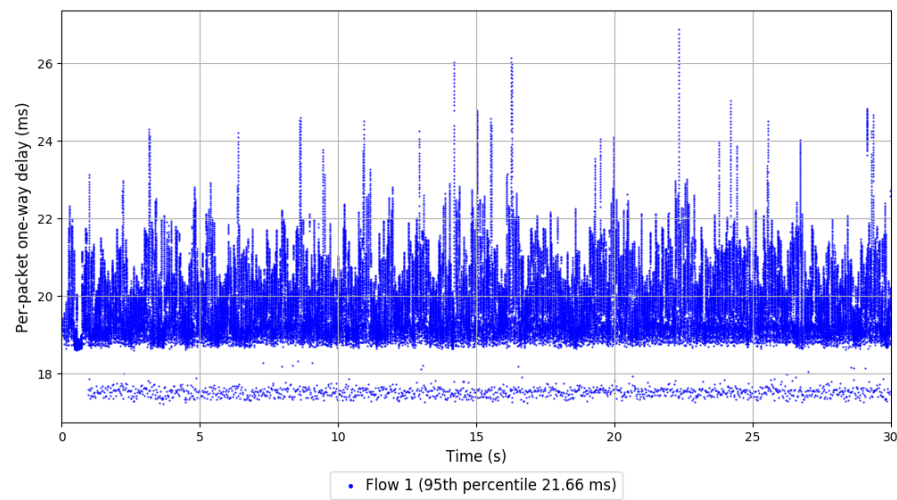
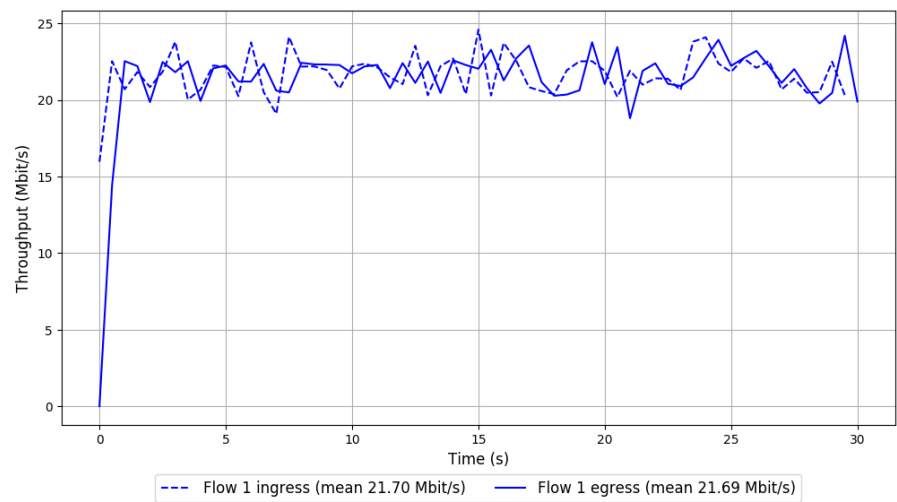


Run 9: Statistics of Sprout

Start at: 2018-08-28 00:15:30
End at: 2018-08-28 00:16:00
Local clock offset: 0.131 ms
Remote clock offset: -0.782 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 21.665 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 21.69 Mbit/s
95th percentile per-packet one-way delay: 21.665 ms
Loss rate: 0.04%

Run 9: Report of Sprout — Data Link

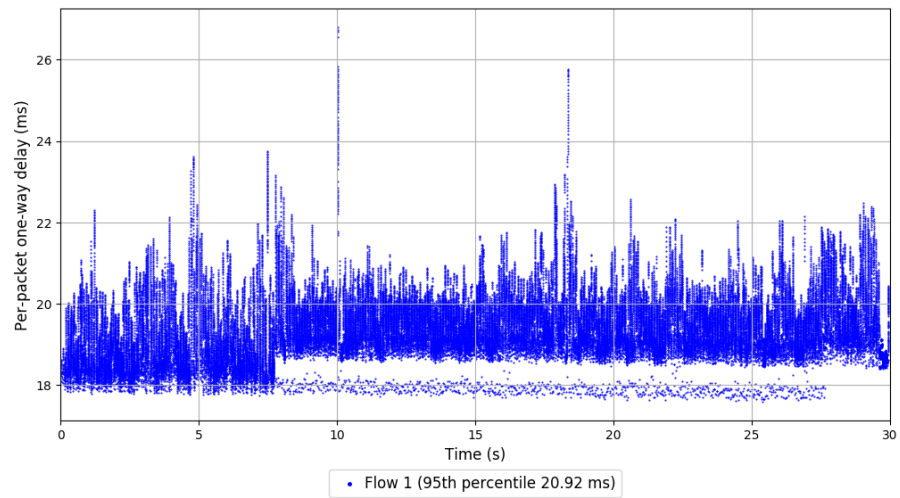
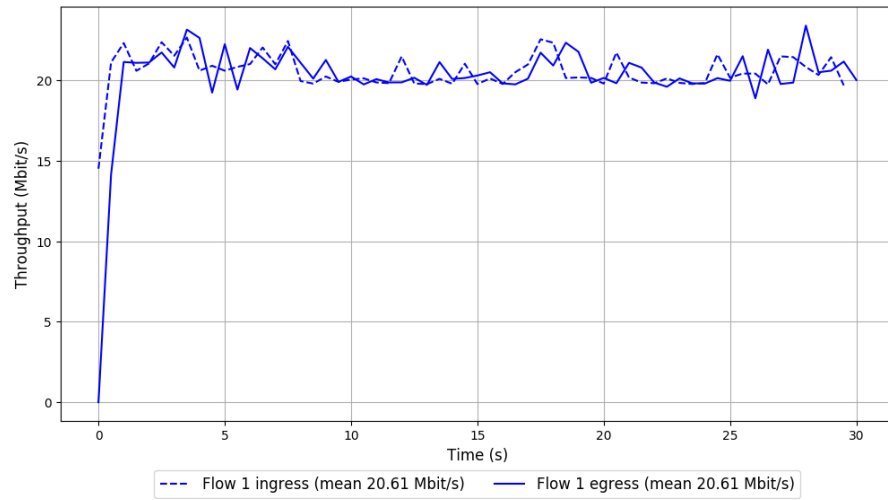


Run 10: Statistics of Sprout

Start at: 2018-08-28 00:40:00
End at: 2018-08-28 00:40:30
Local clock offset: -1.81 ms
Remote clock offset: -0.631 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 20.920 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 20.61 Mbit/s
95th percentile per-packet one-way delay: 20.920 ms
Loss rate: 0.02%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

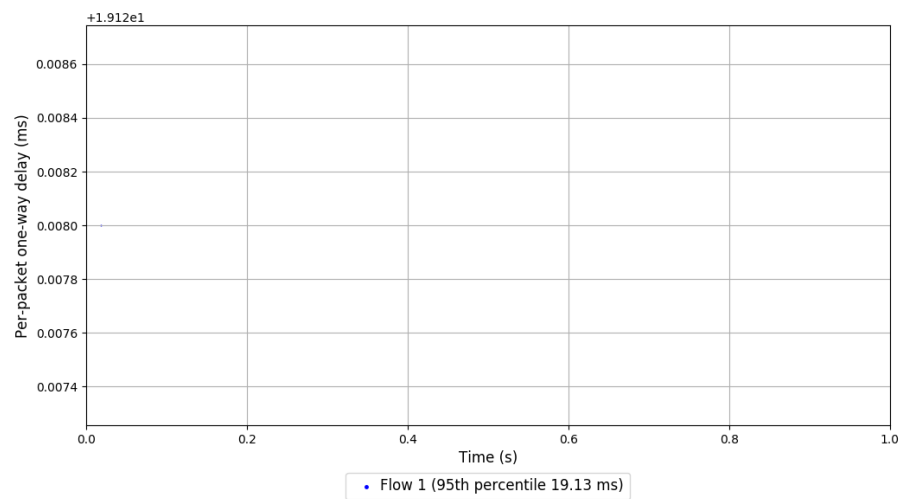
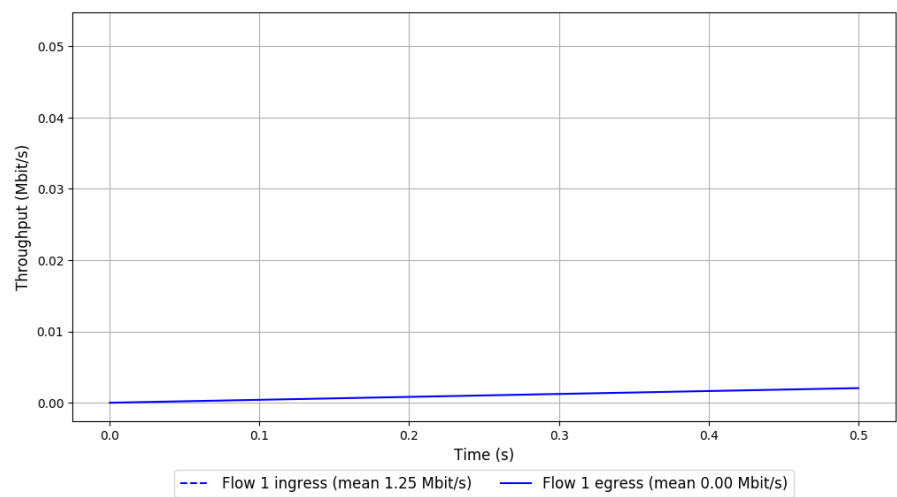
Start at: 2018-08-27 20:58:02

End at: 2018-08-27 20:58:32

Local clock offset: -4.533 ms

Remote clock offset: 3.301 ms

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



Run 2: Statistics of TaoVA-100x

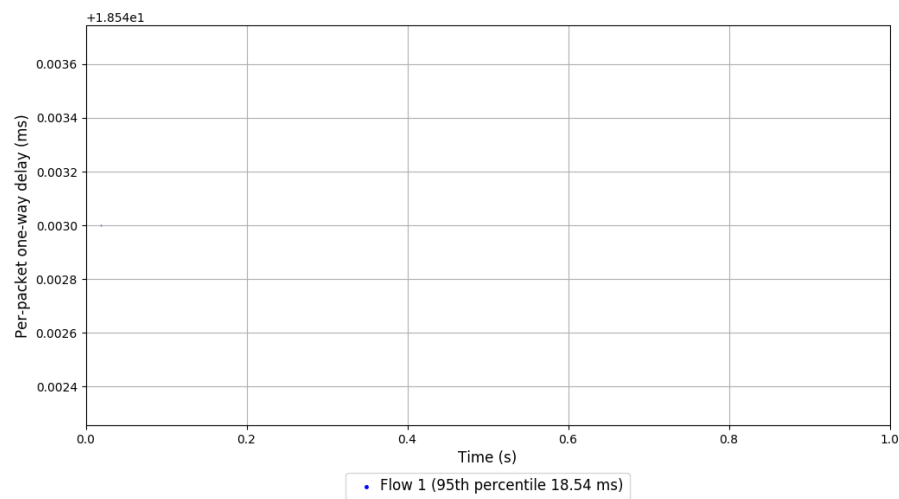
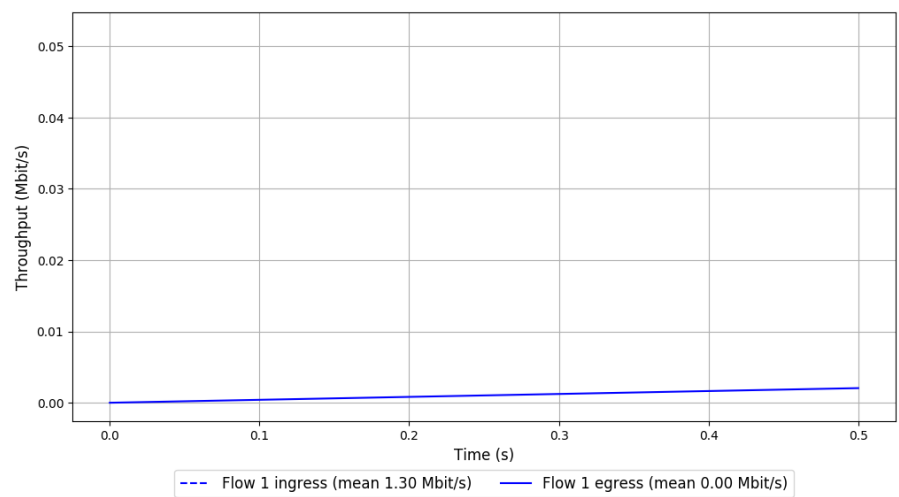
Start at: 2018-08-27 21:22:33

End at: 2018-08-27 21:23:03

Local clock offset: -0.125 ms

Remote clock offset: 0.795 ms

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



Run 3: Statistics of TaoVA-100x

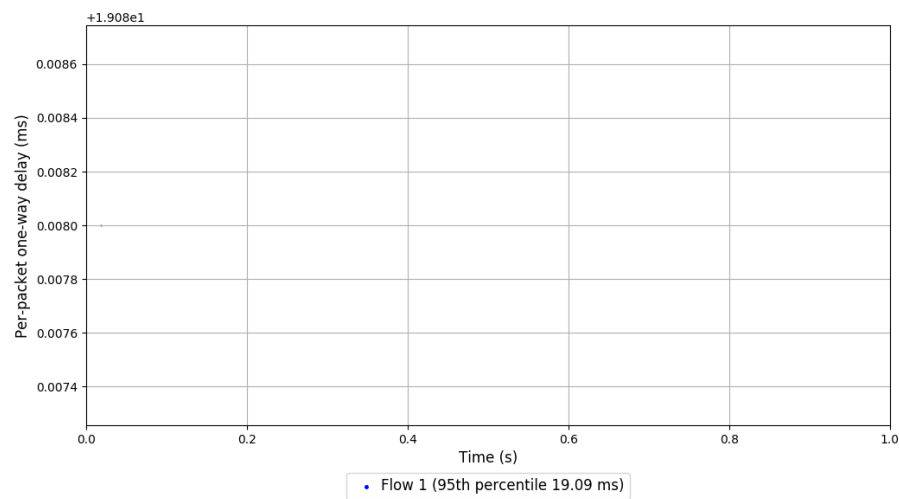
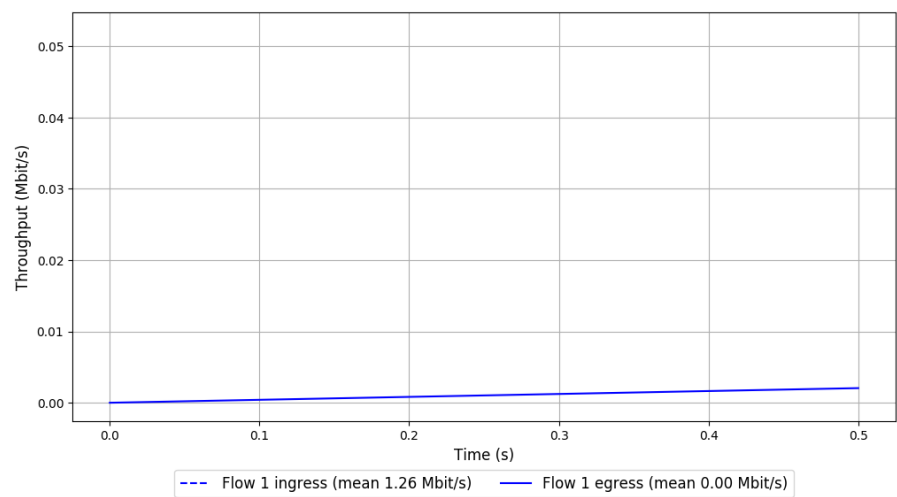
Start at: 2018-08-27 21:47:08

End at: 2018-08-27 21:47:38

Local clock offset: 0.345 ms

Remote clock offset: -1.797 ms

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



Run 4: Statistics of TaoVA-100x

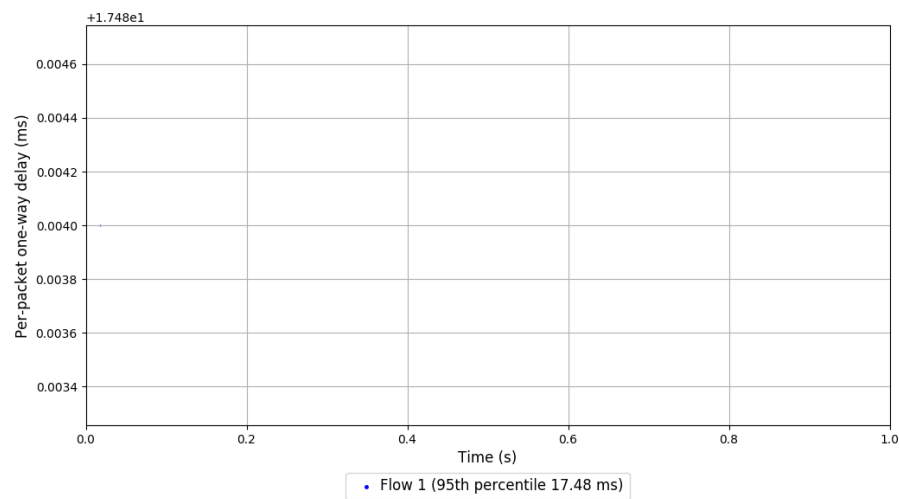
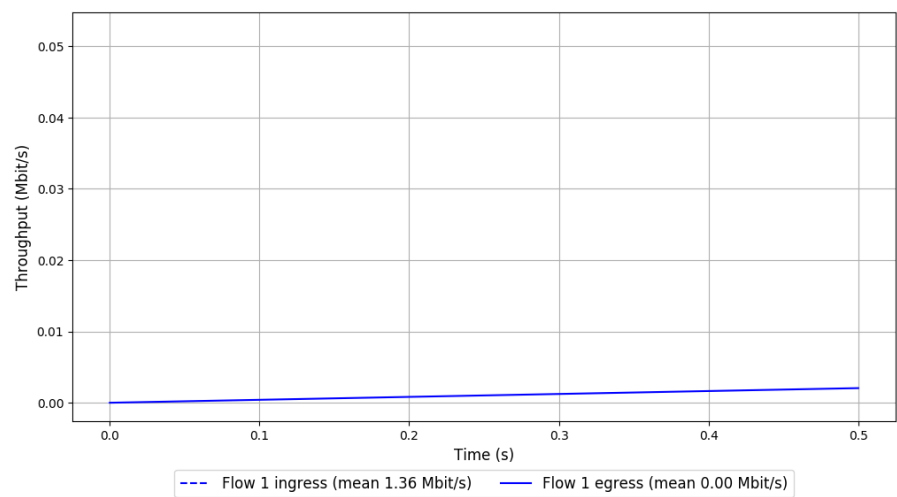
Start at: 2018-08-27 22:11:41

End at: 2018-08-27 22:12:11

Local clock offset: 0.369 ms

Remote clock offset: -0.649 ms

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



Run 5: Statistics of TaoVA-100x

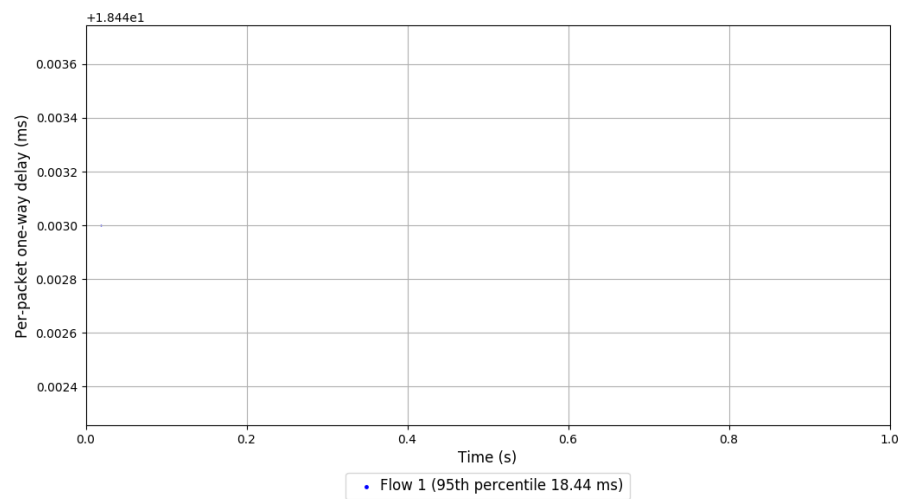
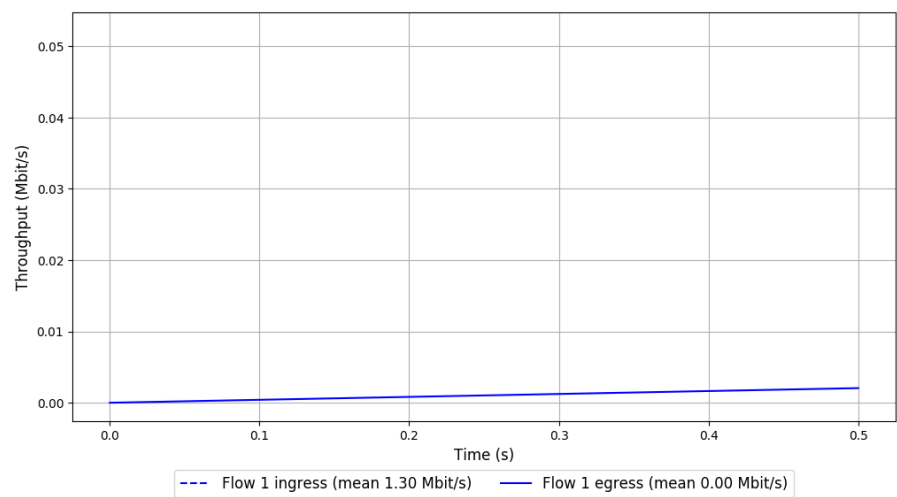
Start at: 2018-08-27 22:36:05

End at: 2018-08-27 22:36:35

Local clock offset: 0.327 ms

Remote clock offset: -0.221 ms

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



Run 6: Statistics of TaoVA-100x

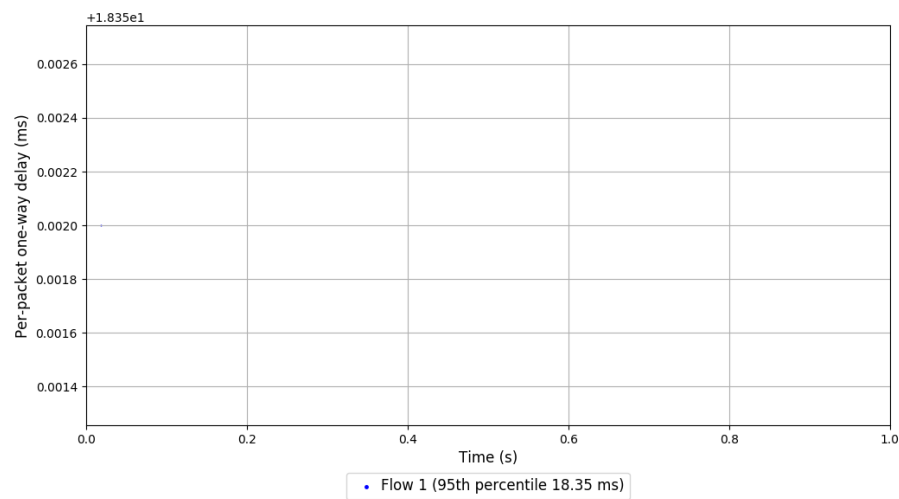
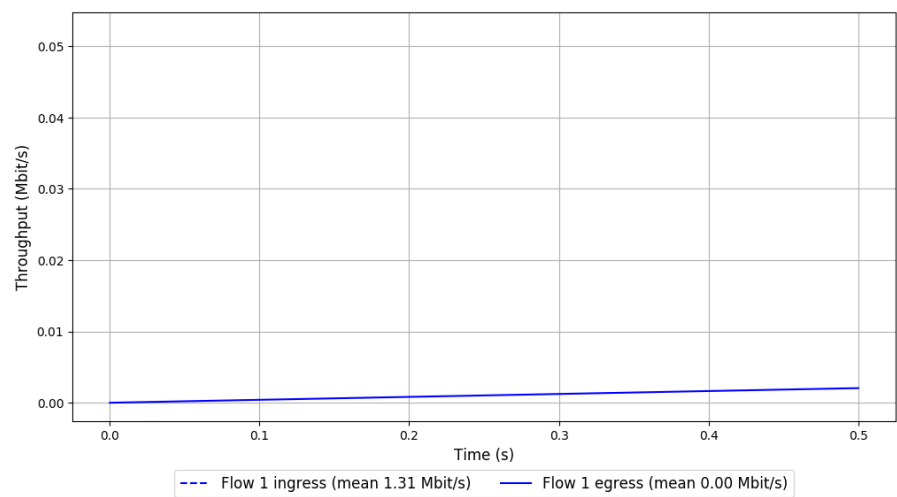
Start at: 2018-08-27 23:00:37

End at: 2018-08-27 23:01:07

Local clock offset: 0.324 ms

Remote clock offset: 1.237 ms

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



Run 7: Statistics of TaoVA-100x

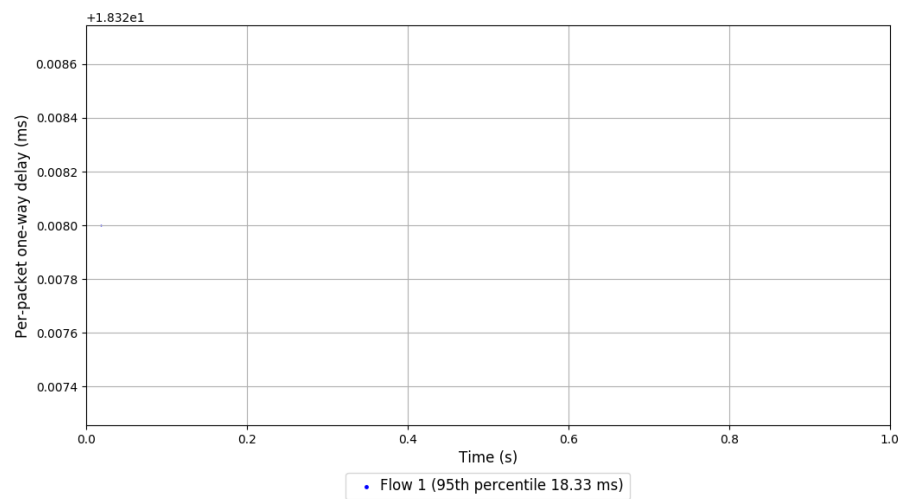
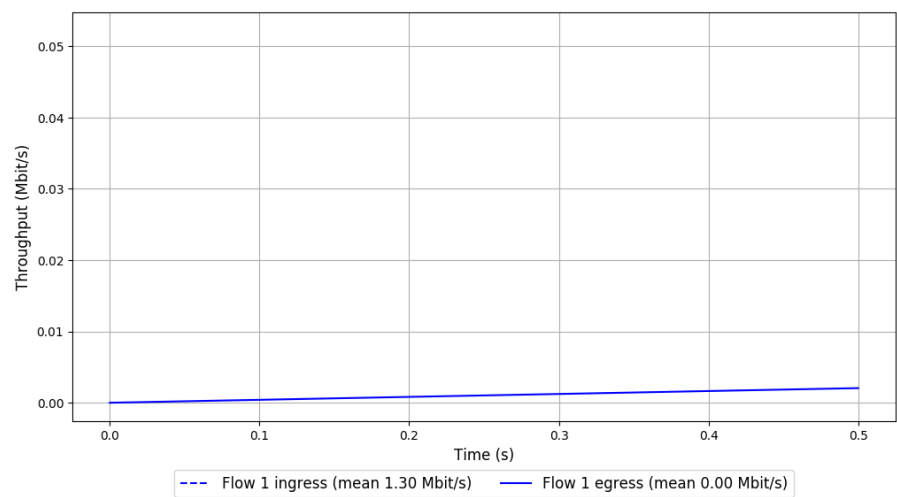
Start at: 2018-08-27 23:25:09

End at: 2018-08-27 23:25:39

Local clock offset: 0.513 ms

Remote clock offset: 4.383 ms

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



Run 8: Statistics of TaoVA-100x

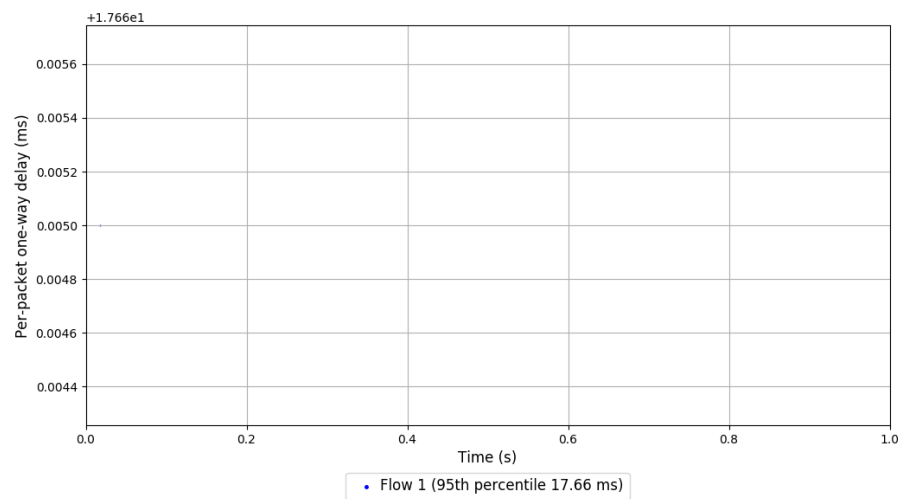
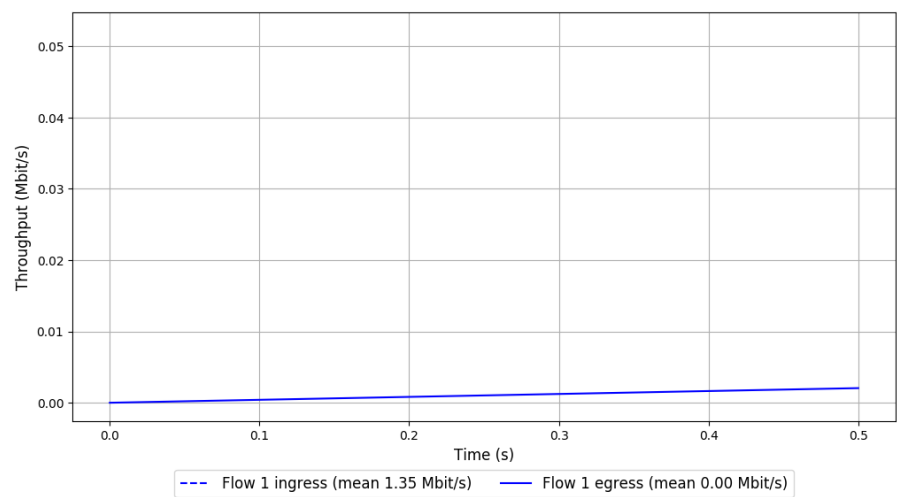
Start at: 2018-08-27 23:49:38

End at: 2018-08-27 23:50:08

Local clock offset: 0.19 ms

Remote clock offset: 0.267 ms

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



Run 9: Statistics of TaoVA-100x

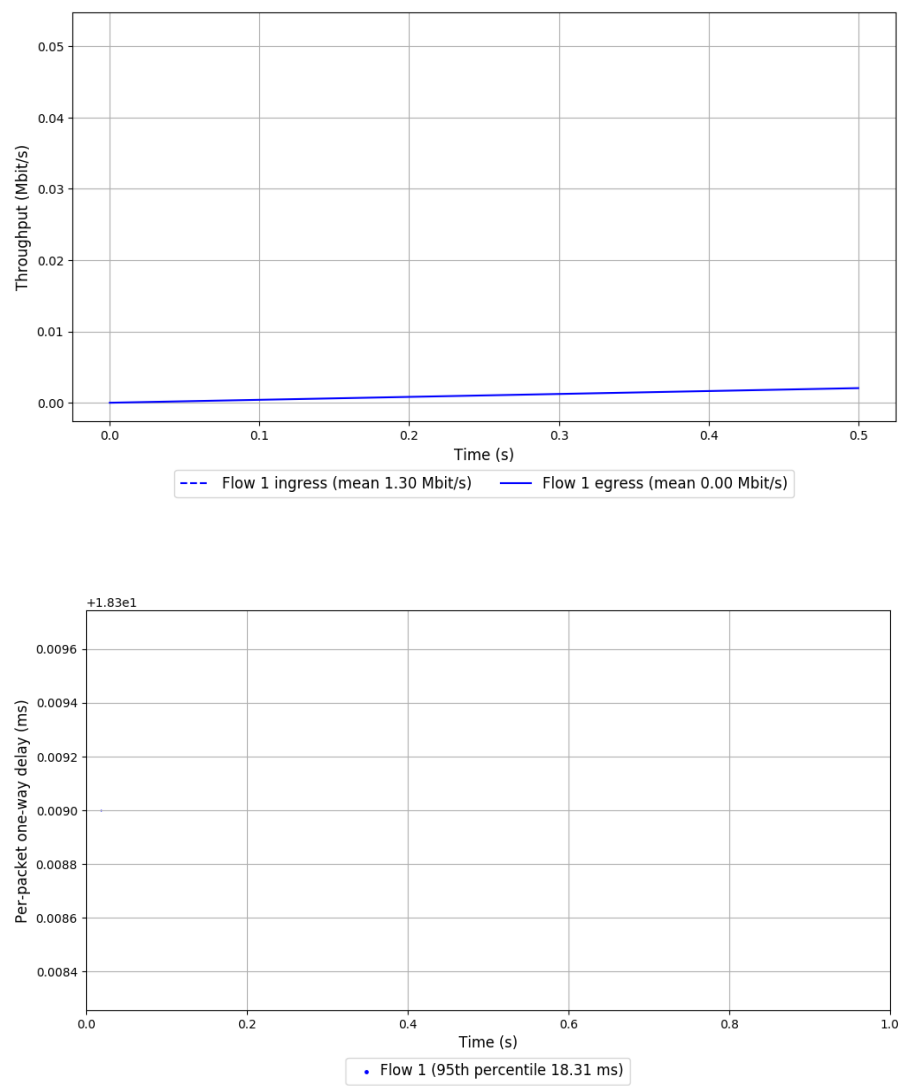
Start at: 2018-08-28 00:14:12

End at: 2018-08-28 00:14:42

Local clock offset: 0.135 ms

Remote clock offset: -0.702 ms

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



Run 10: Statistics of TaoVA-100x

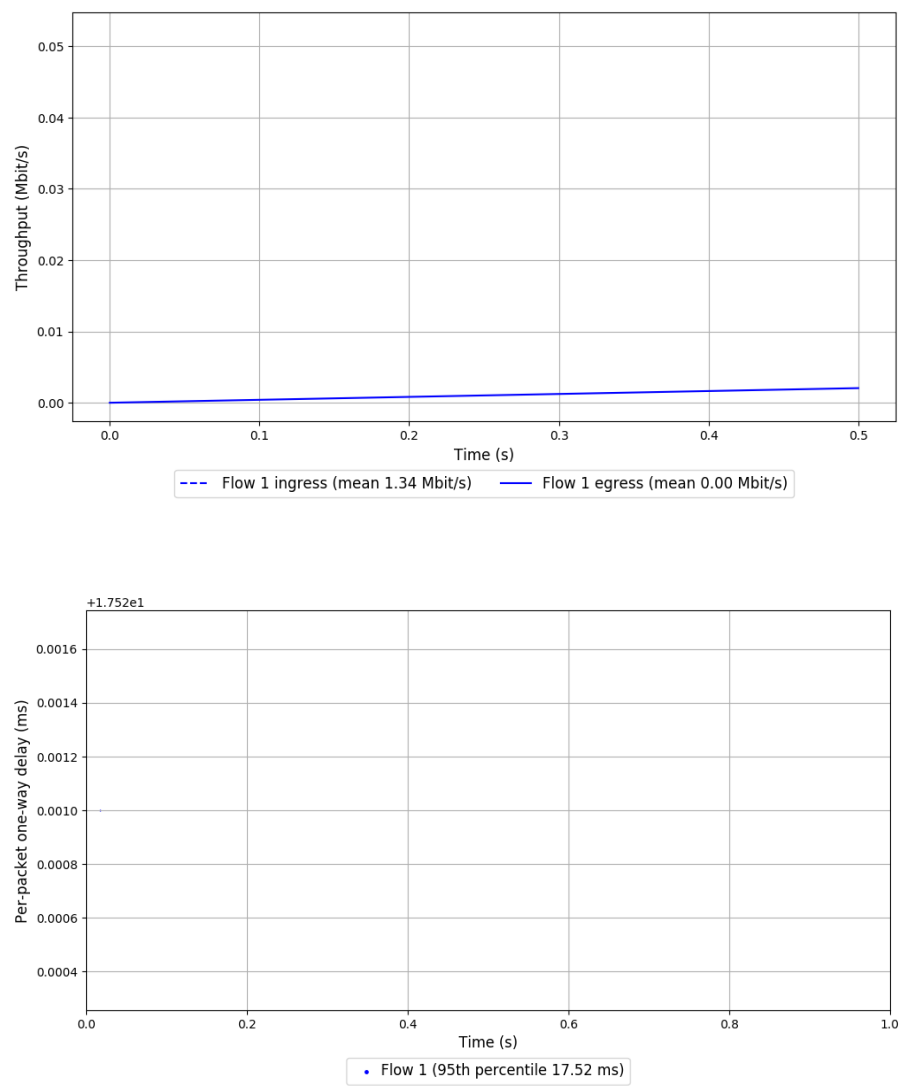
Start at: 2018-08-28 00:38:43

End at: 2018-08-28 00:39:13

Local clock offset: -1.606 ms

Remote clock offset: -1.206 ms

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 20:40:11

End at: 2018-08-27 20:40:41

Local clock offset: -3.267 ms

Remote clock offset: 3.492 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.88 Mbit/s

95th percentile per-packet one-way delay: 19.445 ms

Loss rate: 0.22%

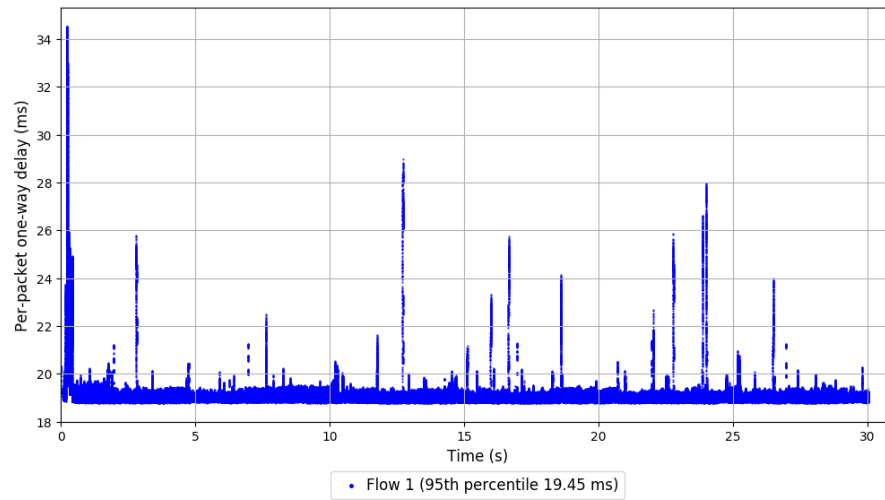
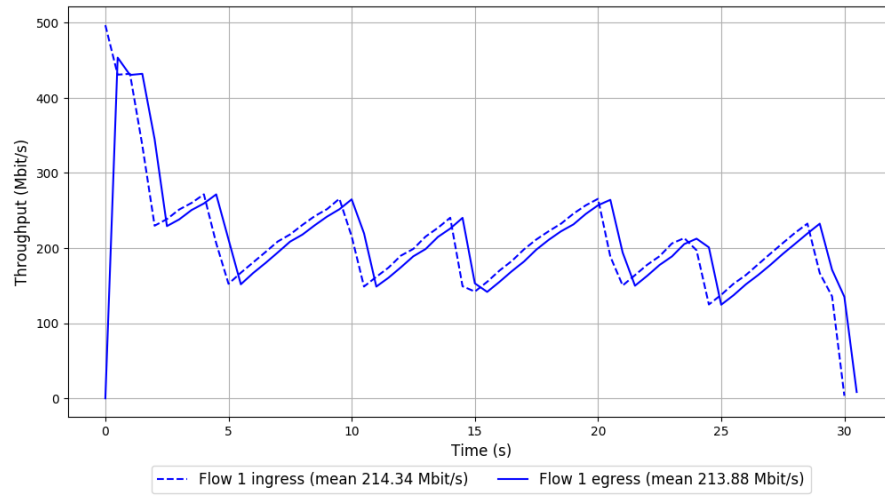
-- Flow 1:

Average throughput: 213.88 Mbit/s

95th percentile per-packet one-way delay: 19.445 ms

Loss rate: 0.22%

Run 1: Report of TCP Vegas — Data Link

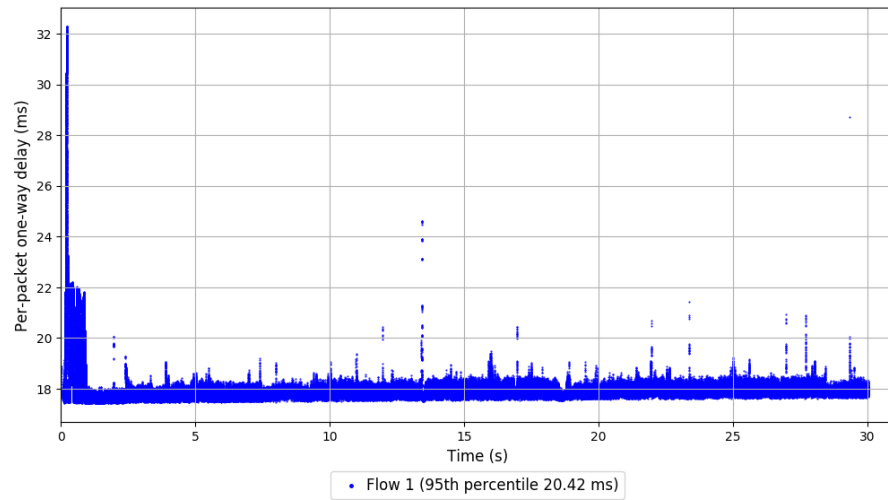
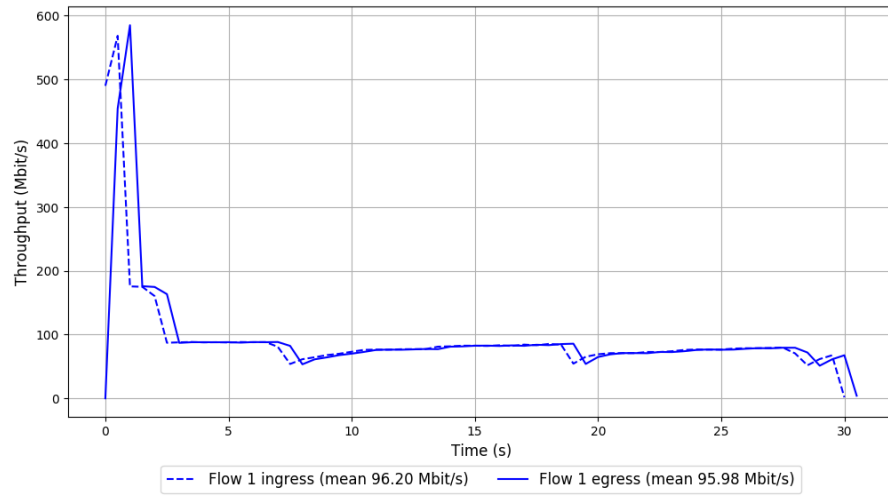


Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 21:04:42
End at: 2018-08-27 21:05:12
Local clock offset: -3.562 ms
Remote clock offset: 3.359 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 20.419 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 95.98 Mbit/s
95th percentile per-packet one-way delay: 20.419 ms
Loss rate: 0.23%

Run 2: Report of TCP Vegas — Data Link

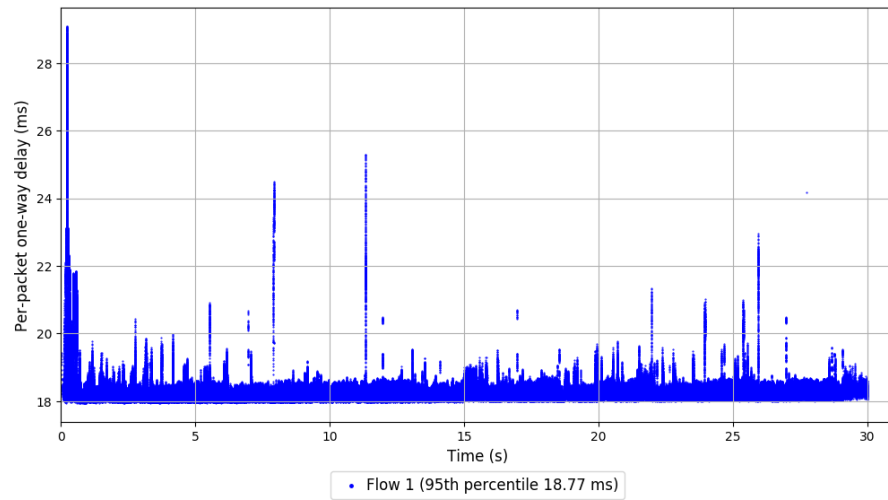
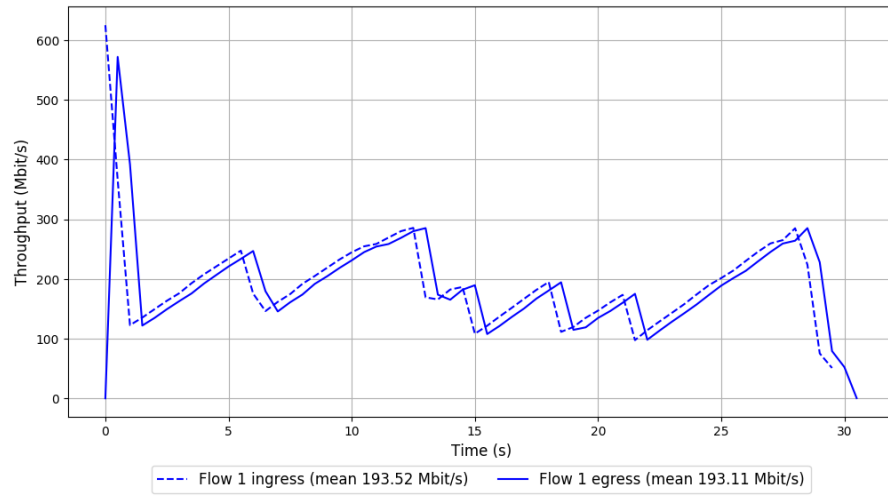


Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 21:29:12
End at: 2018-08-27 21:29:42
Local clock offset: 0.133 ms
Remote clock offset: -0.326 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 18.770 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 193.11 Mbit/s
95th percentile per-packet one-way delay: 18.770 ms
Loss rate: 0.21%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-27 21:53:47

End at: 2018-08-27 21:54:17

Local clock offset: 0.384 ms

Remote clock offset: -0.93 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.01 Mbit/s

95th percentile per-packet one-way delay: 18.520 ms

Loss rate: 0.01%

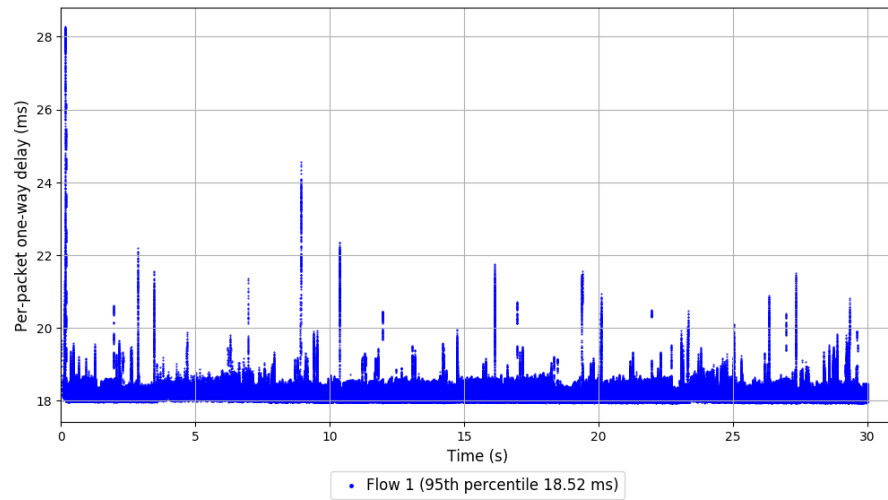
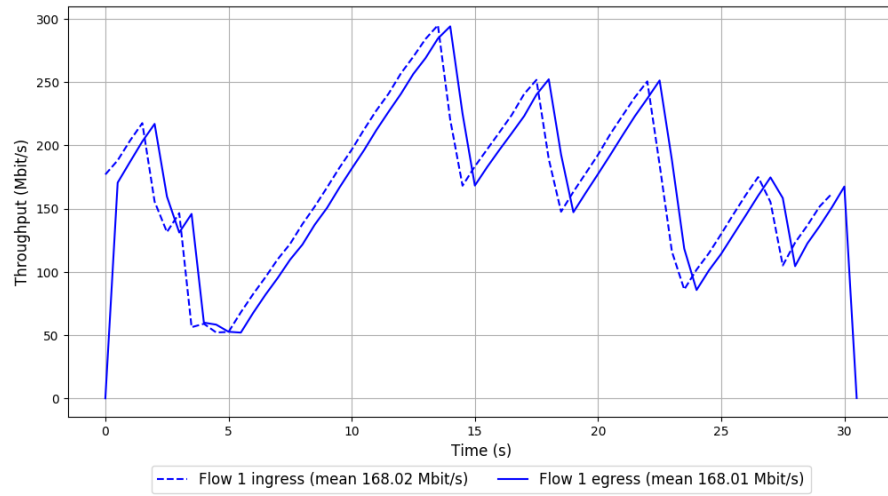
-- Flow 1:

Average throughput: 168.01 Mbit/s

95th percentile per-packet one-way delay: 18.520 ms

Loss rate: 0.01%

Run 4: Report of TCP Vegas — Data Link

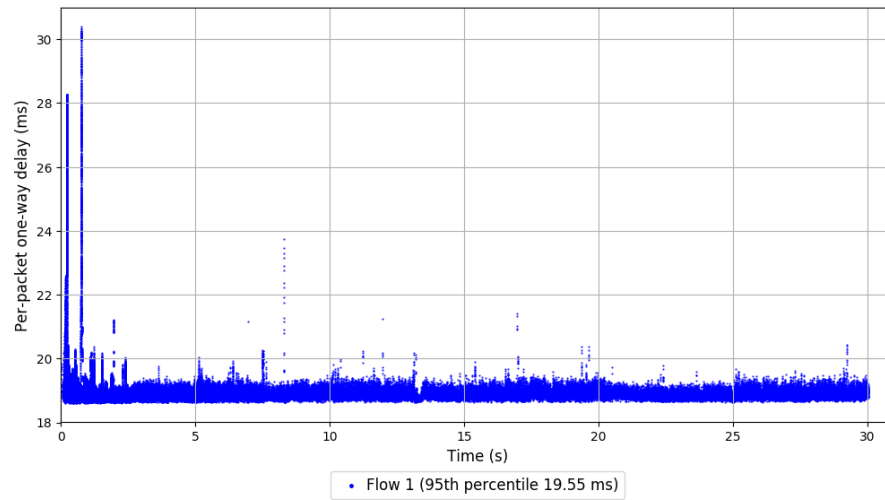
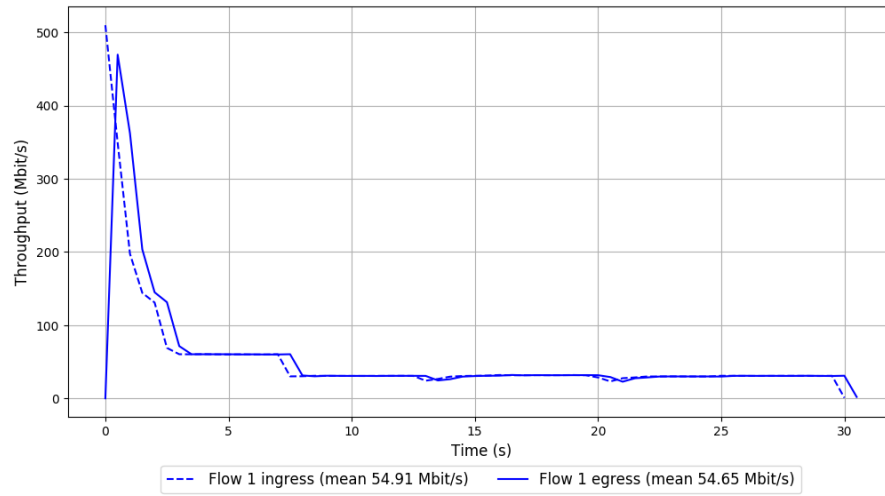


Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 22:18:17
End at: 2018-08-27 22:18:47
Local clock offset: 0.387 ms
Remote clock offset: -0.766 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 54.65 Mbit/s
95th percentile per-packet one-way delay: 19.554 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 54.65 Mbit/s
95th percentile per-packet one-way delay: 19.554 ms
Loss rate: 0.47%

Run 5: Report of TCP Vegas — Data Link

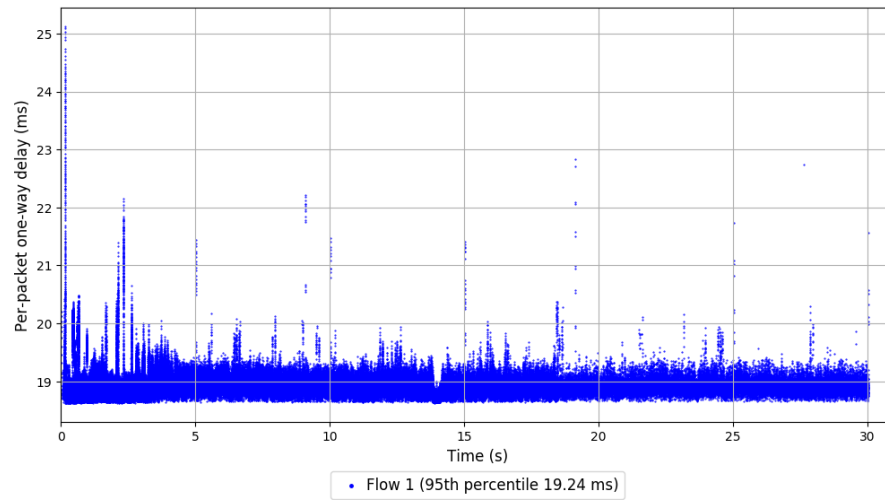
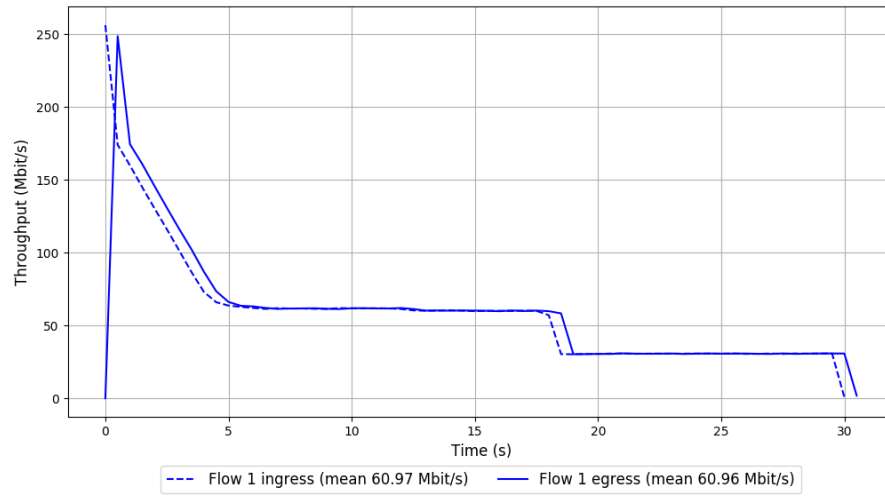


Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 22:42:46
End at: 2018-08-27 22:43:16
Local clock offset: 0.389 ms
Remote clock offset: -0.184 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 19.244 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 60.96 Mbit/s
95th percentile per-packet one-way delay: 19.244 ms
Loss rate: 0.02%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 23:07:16

End at: 2018-08-27 23:07:46

Local clock offset: 0.438 ms

Remote clock offset: 2.707 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 17.685 ms

Loss rate: 0.01%

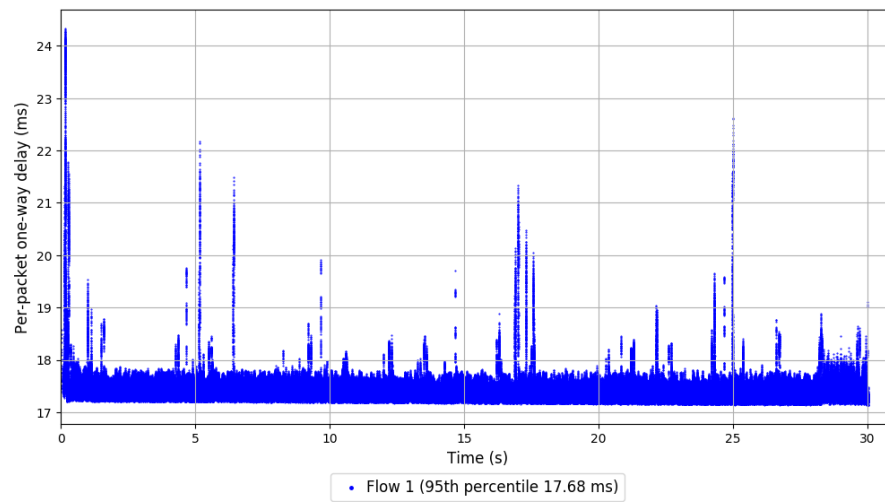
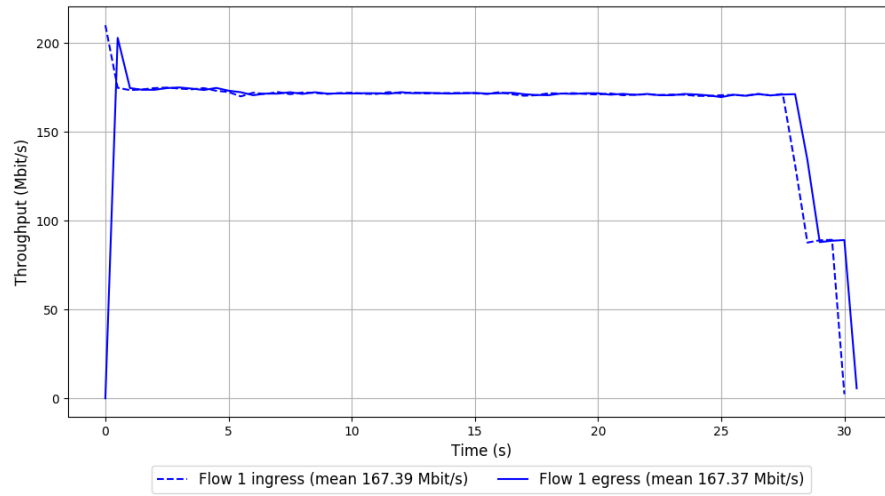
-- Flow 1:

Average throughput: 167.37 Mbit/s

95th percentile per-packet one-way delay: 17.685 ms

Loss rate: 0.01%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 23:31:49

End at: 2018-08-27 23:32:19

Local clock offset: 0.541 ms

Remote clock offset: 4.061 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 94.07 Mbit/s

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

Loss rate: 0.03%

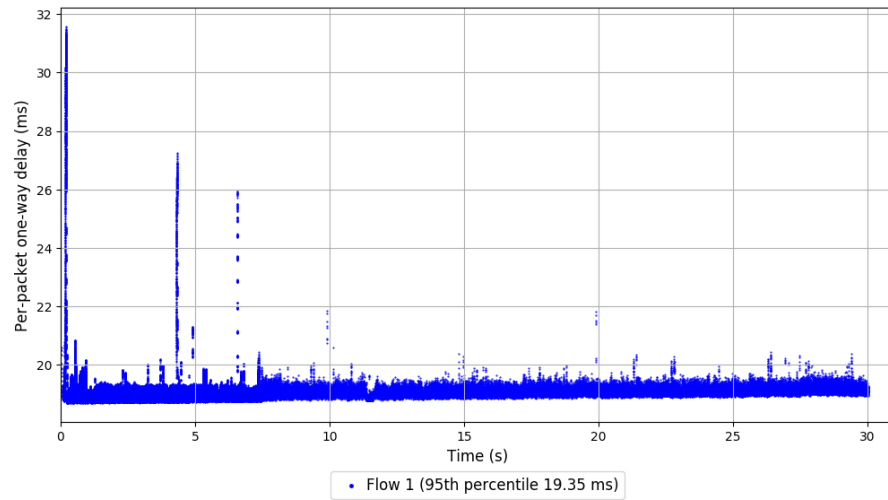
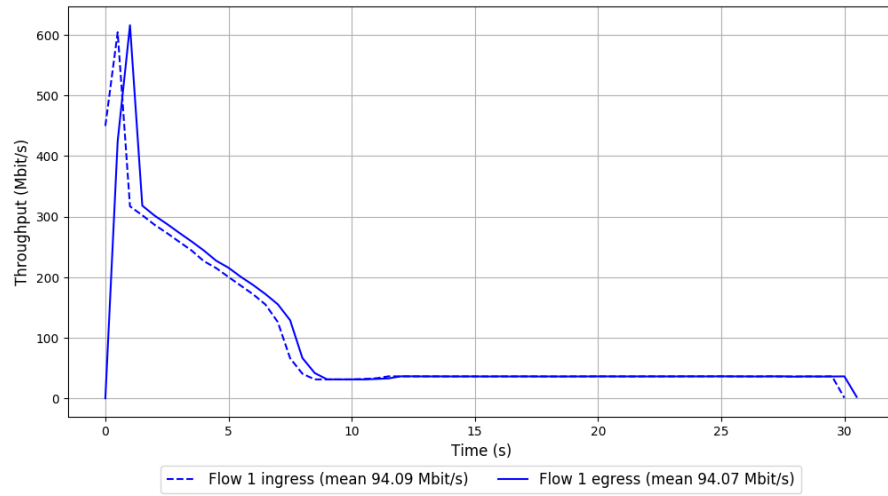
-- Flow 1:

Average throughput: 94.07 Mbit/s

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

Loss rate: 0.03%

Run 8: Report of TCP Vegas — Data Link

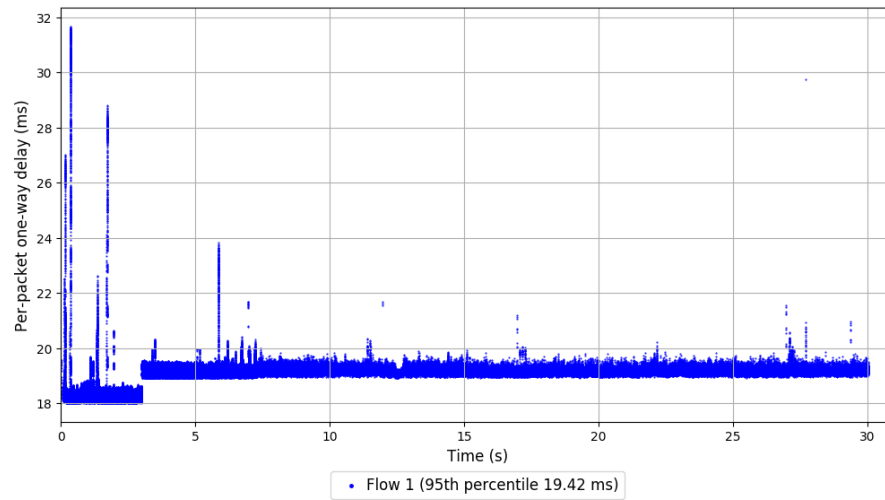
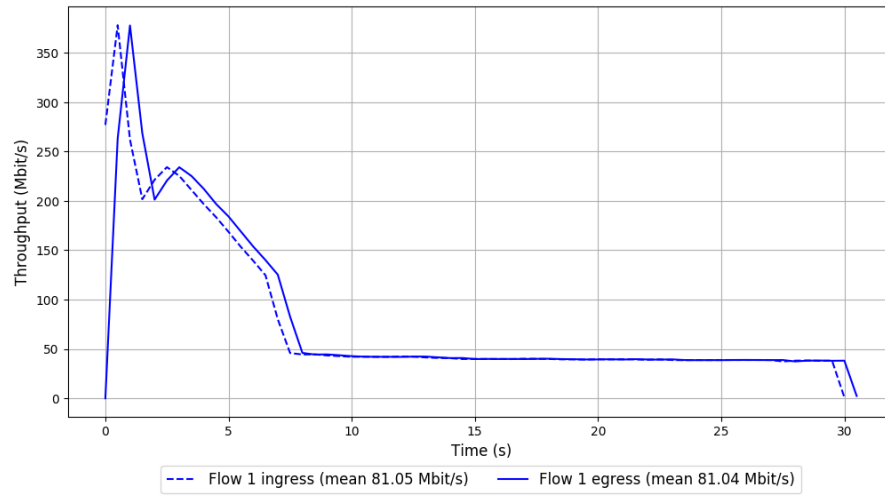


Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 23:56:18
End at: 2018-08-27 23:56:48
Local clock offset: 0.143 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 81.04 Mbit/s
95th percentile per-packet one-way delay: 19.416 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 81.04 Mbit/s
95th percentile per-packet one-way delay: 19.416 ms
Loss rate: 0.01%

Run 9: Report of TCP Vegas — Data Link

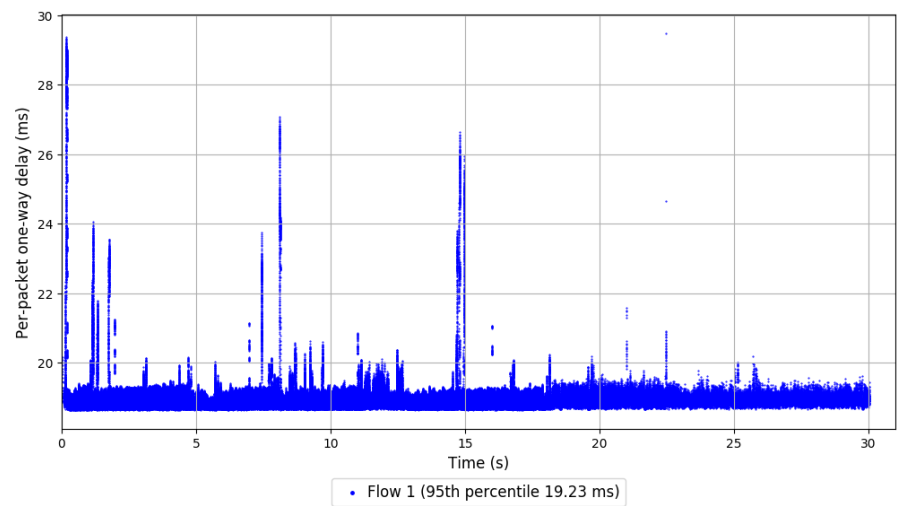
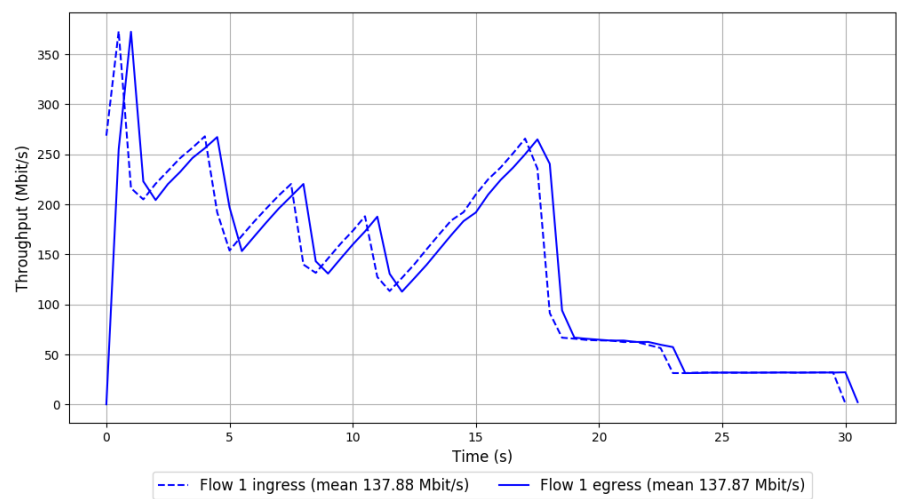


Run 10: Statistics of TCP Vegas

Start at: 2018-08-28 00:20:55
End at: 2018-08-28 00:21:25
Local clock offset: 0.098 ms
Remote clock offset: -0.879 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 137.87 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 137.87 Mbit/s
95th percentile per-packet one-way delay: 19.226 ms
Loss rate: 0.01%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-27 20:50:21

End at: 2018-08-27 20:50:52

Local clock offset: -4.05 ms

Remote clock offset: 3.214 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 193.67 Mbit/s

95th percentile per-packet one-way delay: 51.392 ms

Loss rate: 19.62%

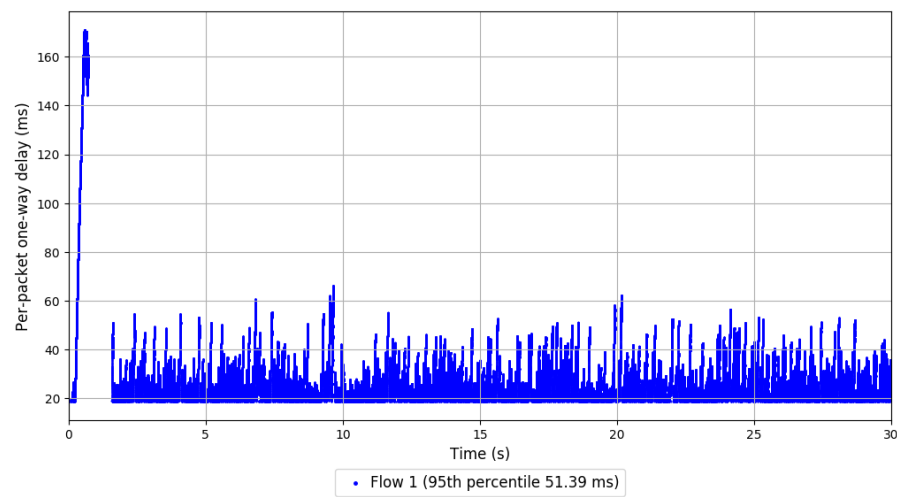
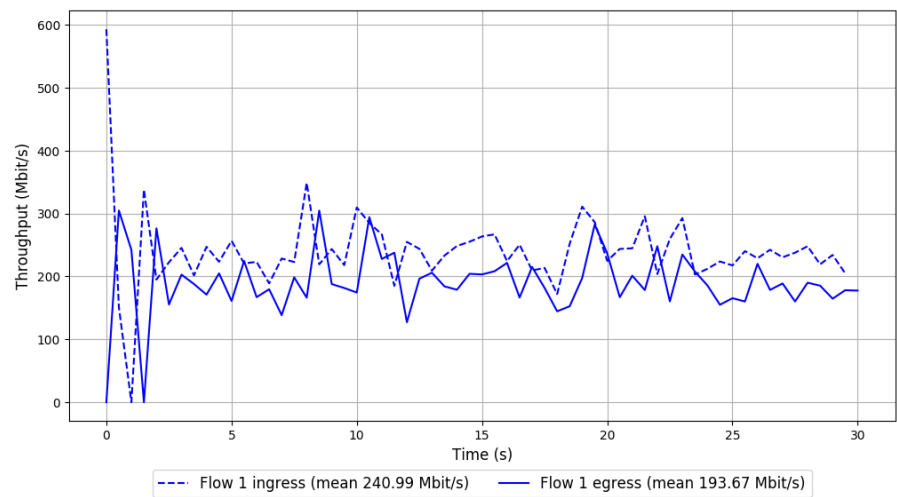
-- Flow 1:

Average throughput: 193.67 Mbit/s

95th percentile per-packet one-way delay: 51.392 ms

Loss rate: 19.62%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-27 21:14:49

End at: 2018-08-27 21:15:19

Local clock offset: -0.934 ms

Remote clock offset: 3.004 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.15 Mbit/s

95th percentile per-packet one-way delay: 33.685 ms

Loss rate: 15.72%

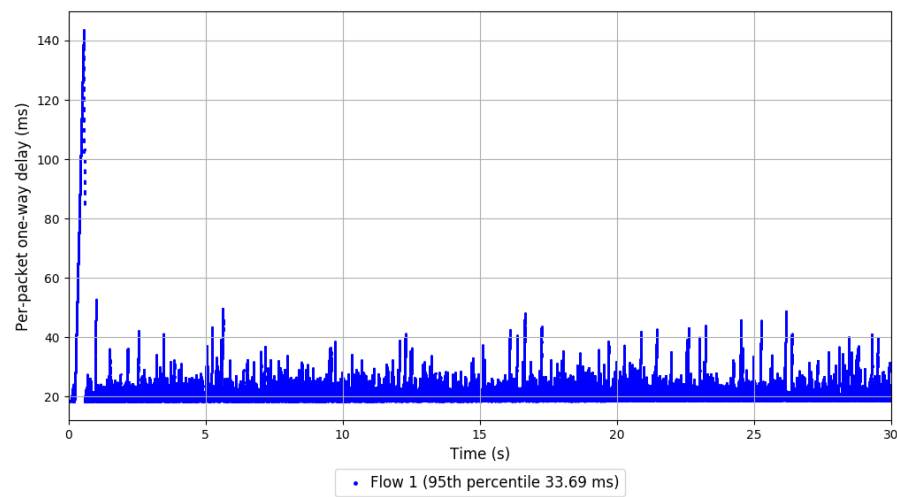
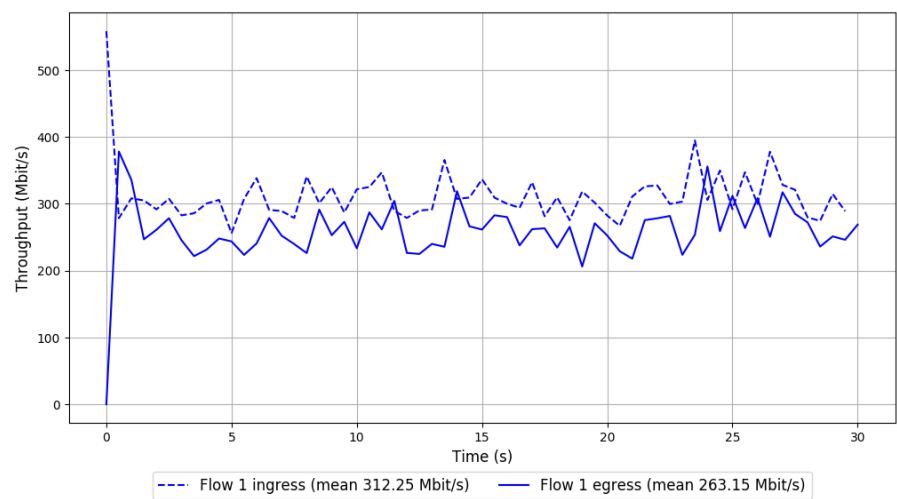
-- Flow 1:

Average throughput: 263.15 Mbit/s

95th percentile per-packet one-way delay: 33.685 ms

Loss rate: 15.72%

Run 2: Report of Verus — Data Link

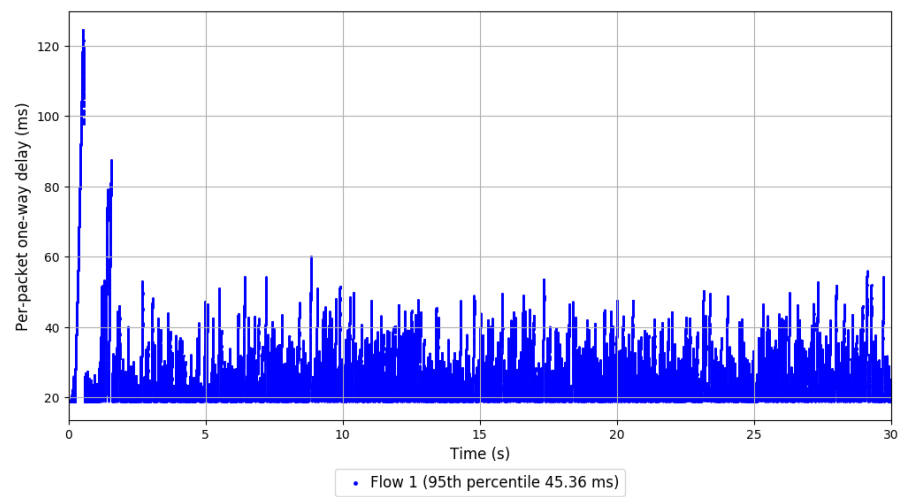
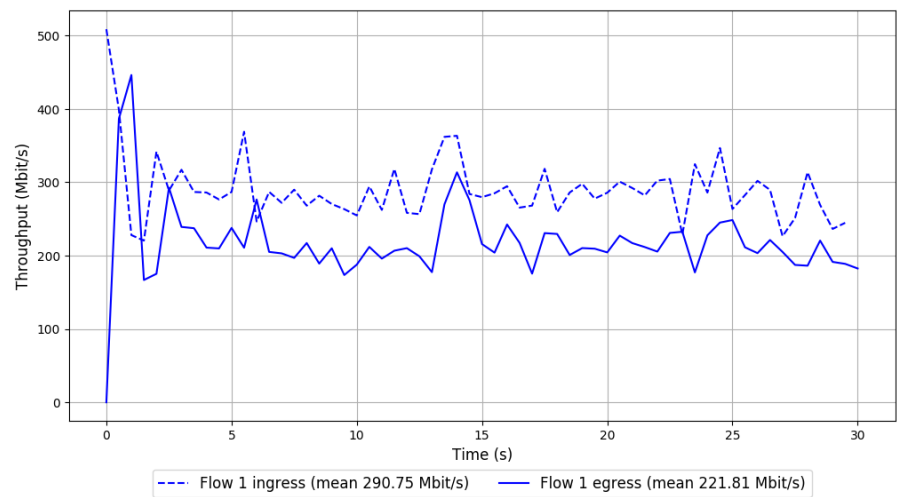


Run 3: Statistics of Verus

Start at: 2018-08-27 21:39:26
End at: 2018-08-27 21:39:56
Local clock offset: 0.217 ms
Remote clock offset: -1.254 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 221.81 Mbit/s
95th percentile per-packet one-way delay: 45.357 ms
Loss rate: 23.71%
-- Flow 1:
Average throughput: 221.81 Mbit/s
95th percentile per-packet one-way delay: 45.357 ms
Loss rate: 23.71%

Run 3: Report of Verus — Data Link

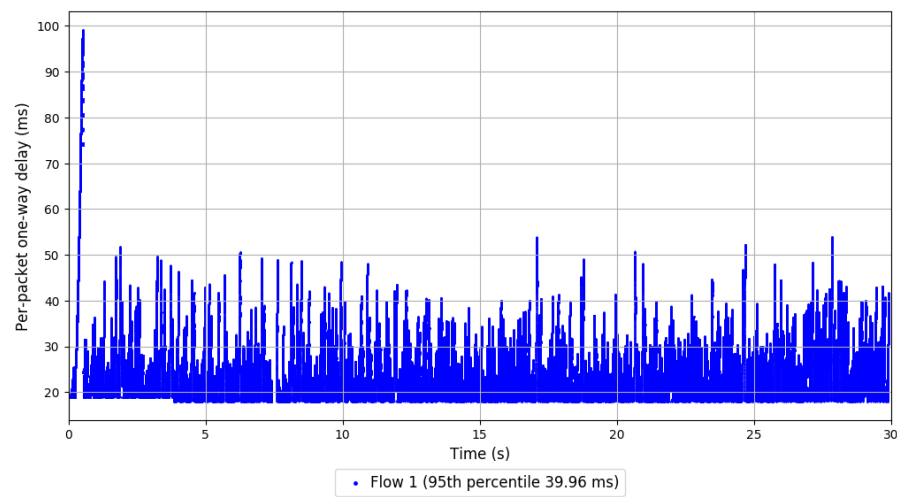
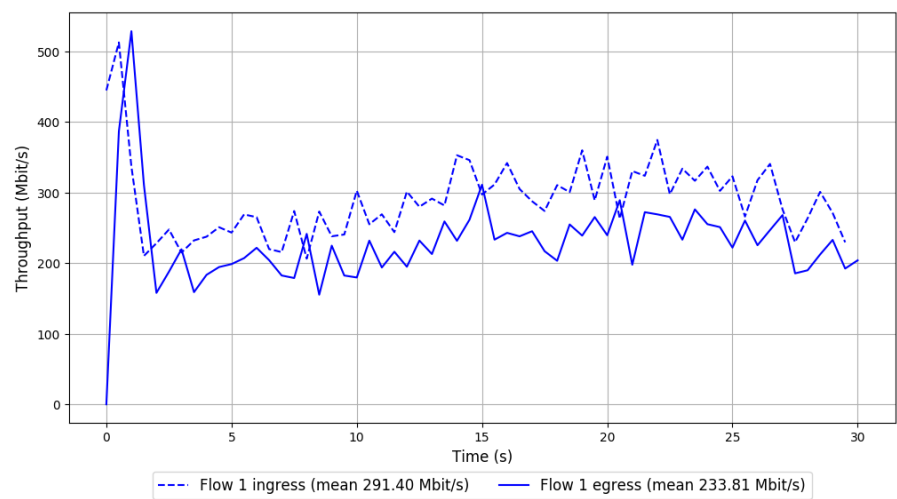


Run 4: Statistics of Verus

Start at: 2018-08-27 22:03:58
End at: 2018-08-27 22:04:28
Local clock offset: 0.407 ms
Remote clock offset: -0.609 ms

Below is generated by plot.py at 2018-08-28 02:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.81 Mbit/s
95th percentile per-packet one-way delay: 39.961 ms
Loss rate: 19.72%
-- Flow 1:
Average throughput: 233.81 Mbit/s
95th percentile per-packet one-way delay: 39.961 ms
Loss rate: 19.72%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-27 22:28:27

End at: 2018-08-27 22:28:57

Local clock offset: 0.434 ms

Remote clock offset: -0.33 ms

Below is generated by plot.py at 2018-08-28 02:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.21 Mbit/s

95th percentile per-packet one-way delay: 53.255 ms

Loss rate: 27.57%

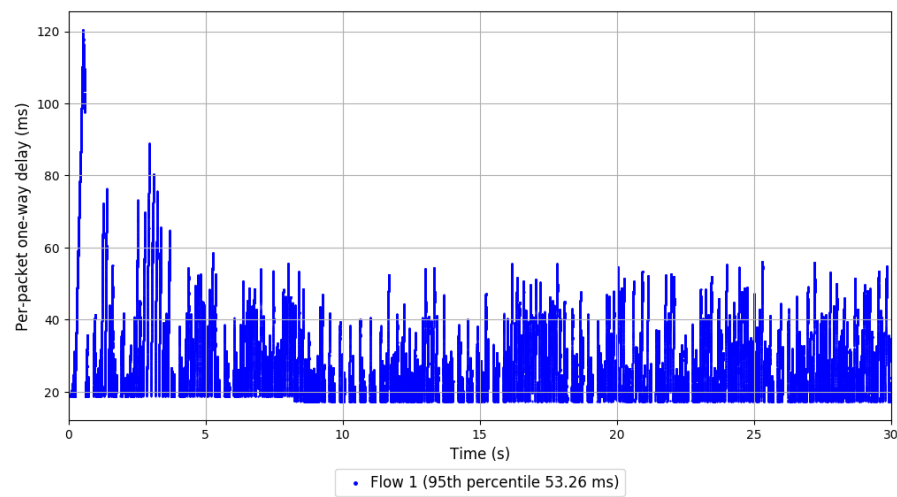
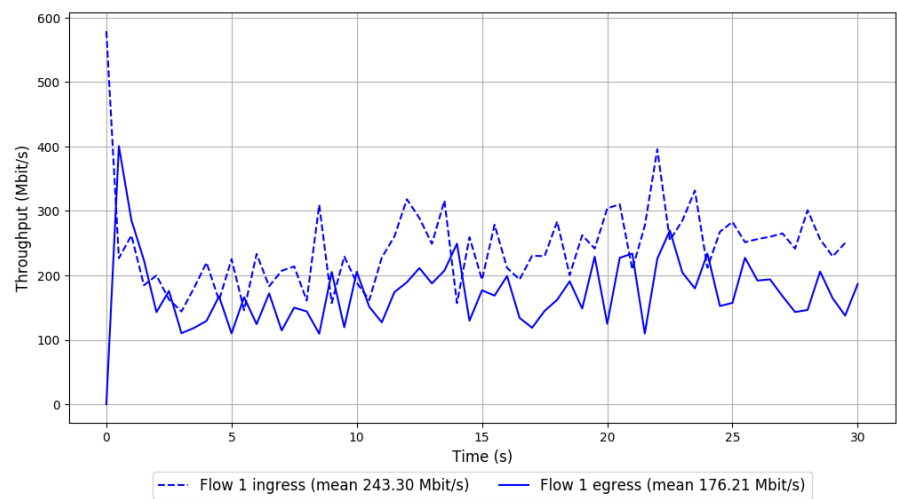
-- Flow 1:

Average throughput: 176.21 Mbit/s

95th percentile per-packet one-way delay: 53.255 ms

Loss rate: 27.57%

Run 5: Report of Verus — Data Link

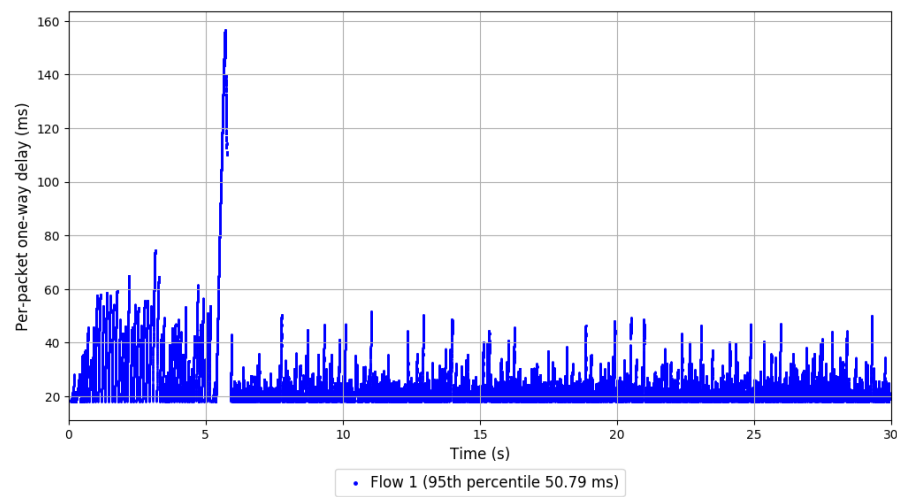
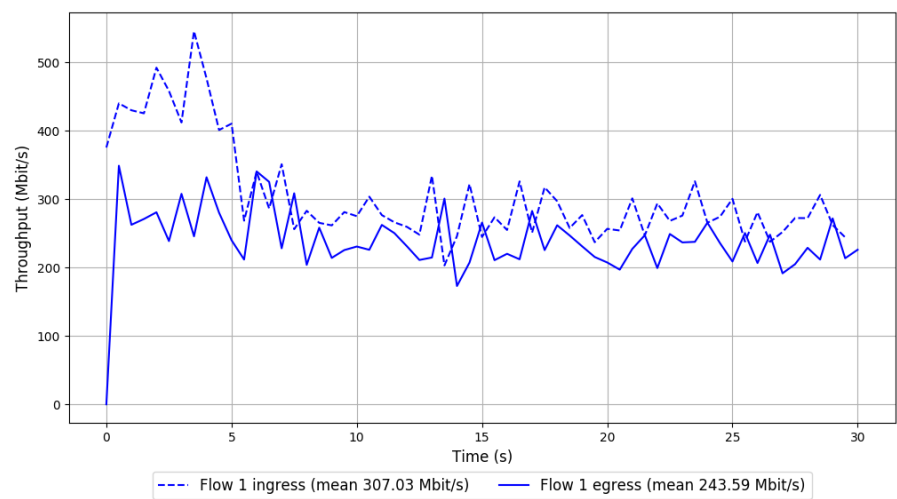


Run 6: Statistics of Verus

Start at: 2018-08-27 22:52:56
End at: 2018-08-27 22:53:26
Local clock offset: 0.393 ms
Remote clock offset: -0.249 ms

Below is generated by plot.py at 2018-08-28 02:02:20
Datalink statistics
-- Total of 1 flow:
Average throughput: 243.59 Mbit/s
95th percentile per-packet one-way delay: 50.794 ms
Loss rate: 20.66%
-- Flow 1:
Average throughput: 243.59 Mbit/s
95th percentile per-packet one-way delay: 50.794 ms
Loss rate: 20.66%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-27 23:17:28

End at: 2018-08-27 23:17:58

Local clock offset: 0.468 ms

Remote clock offset: 3.833 ms

Below is generated by plot.py at 2018-08-28 02:02:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 170.15 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 23.38%

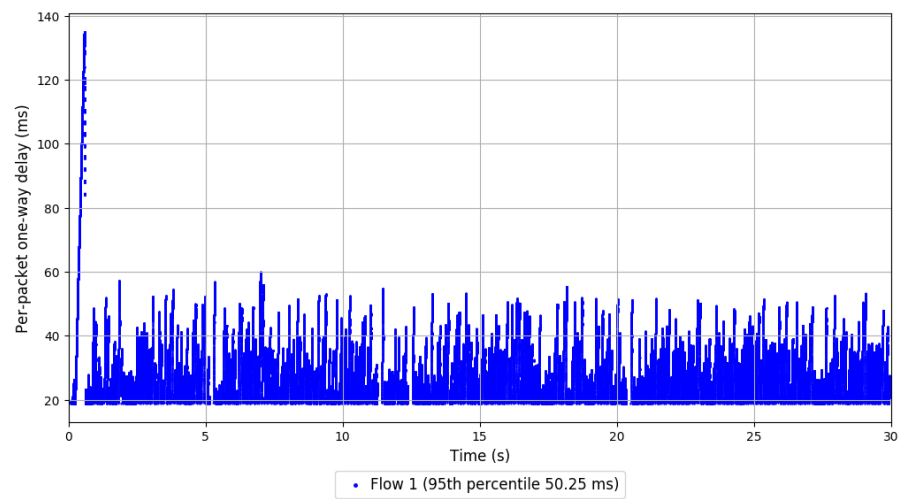
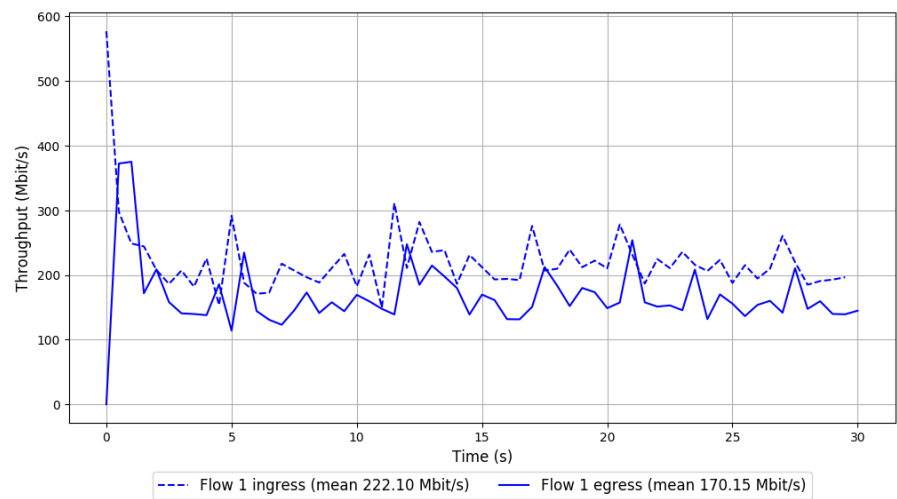
-- Flow 1:

Average throughput: 170.15 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 23.38%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-27 23:42:00

End at: 2018-08-27 23:42:30

Local clock offset: 0.283 ms

Remote clock offset: 1.122 ms

Below is generated by plot.py at 2018-08-28 02:03:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 210.30 Mbit/s

95th percentile per-packet one-way delay: 44.757 ms

Loss rate: 18.57%

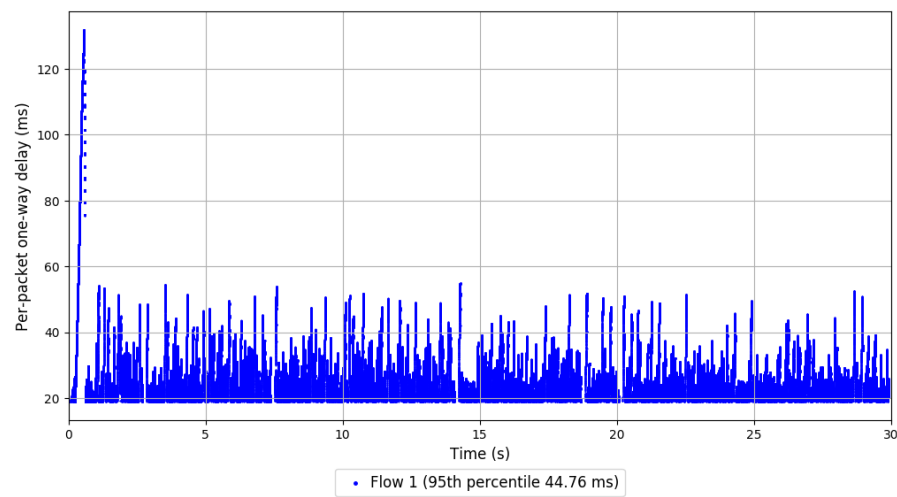
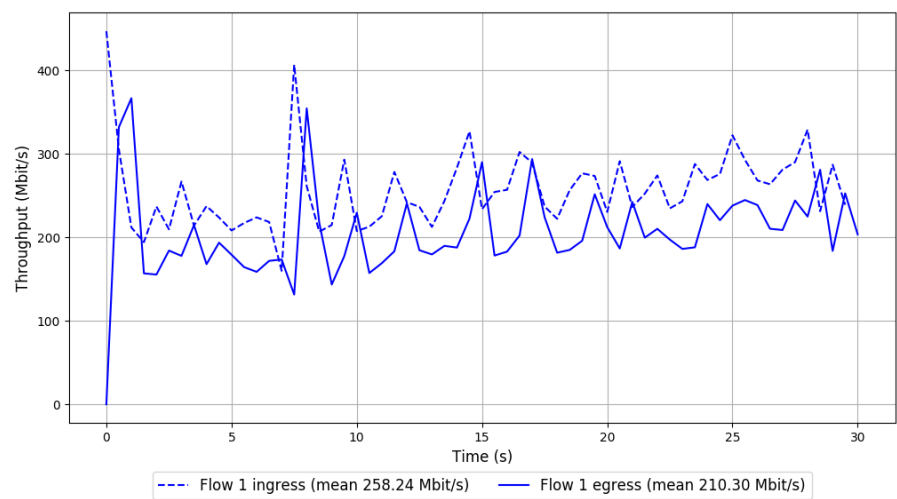
-- Flow 1:

Average throughput: 210.30 Mbit/s

95th percentile per-packet one-way delay: 44.757 ms

Loss rate: 18.57%

Run 8: Report of Verus — Data Link

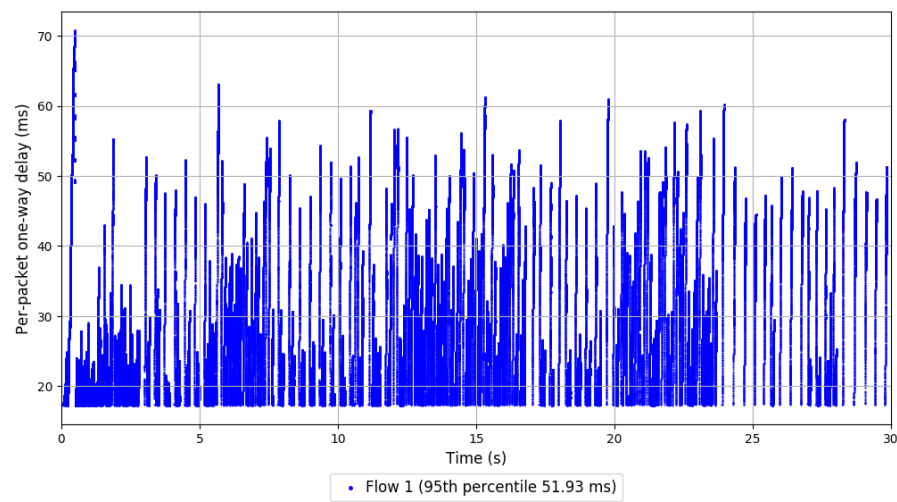
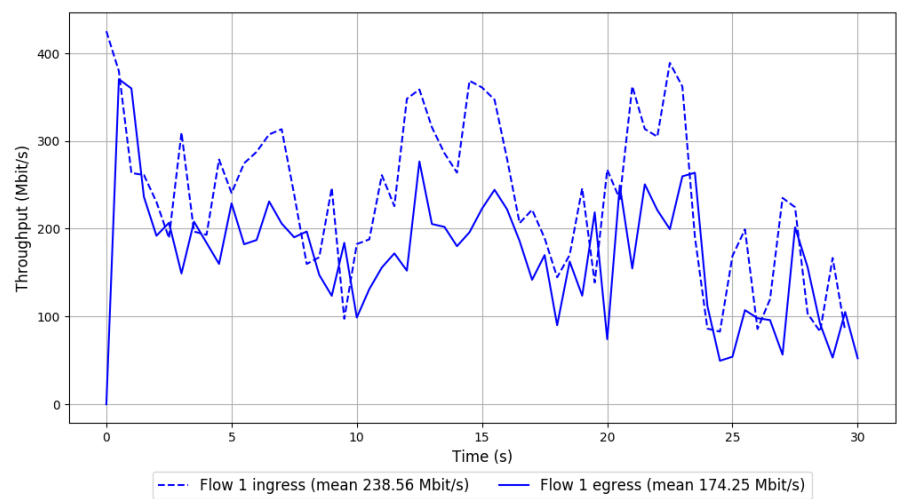


Run 9: Statistics of Verus

Start at: 2018-08-28 00:06:29
End at: 2018-08-28 00:06:59
Local clock offset: 0.153 ms
Remote clock offset: -0.453 ms

Below is generated by plot.py at 2018-08-28 02:03:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.25 Mbit/s
95th percentile per-packet one-way delay: 51.932 ms
Loss rate: 26.87%
-- Flow 1:
Average throughput: 174.25 Mbit/s
95th percentile per-packet one-way delay: 51.932 ms
Loss rate: 26.87%

Run 9: Report of Verus — Data Link

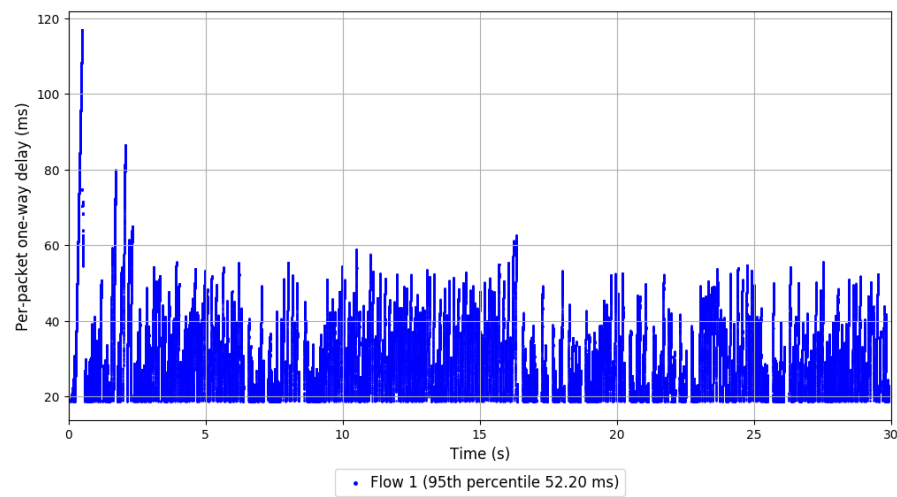
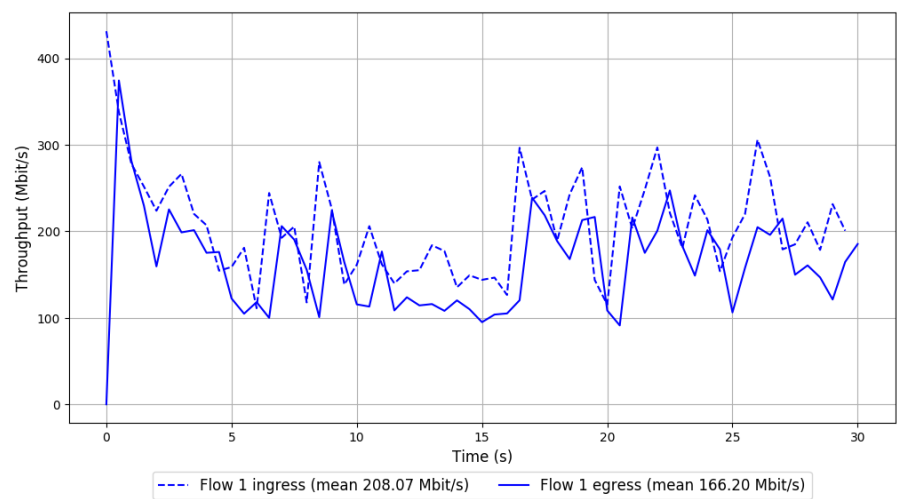


Run 10: Statistics of Verus

Start at: 2018-08-28 00:31:05
End at: 2018-08-28 00:31:35
Local clock offset: 0.012 ms
Remote clock offset: -1.151 ms

Below is generated by plot.py at 2018-08-28 02:03:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 166.20 Mbit/s
95th percentile per-packet one-way delay: 52.201 ms
Loss rate: 20.11%
-- Flow 1:
Average throughput: 166.20 Mbit/s
95th percentile per-packet one-way delay: 52.201 ms
Loss rate: 20.11%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 20:45:27

End at: 2018-08-27 20:45:57

Local clock offset: -3.603 ms

Remote clock offset: 3.404 ms

Below is generated by plot.py at 2018-08-28 02:06:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.89 Mbit/s

95th percentile per-packet one-way delay: 49.516 ms

Loss rate: 0.01%

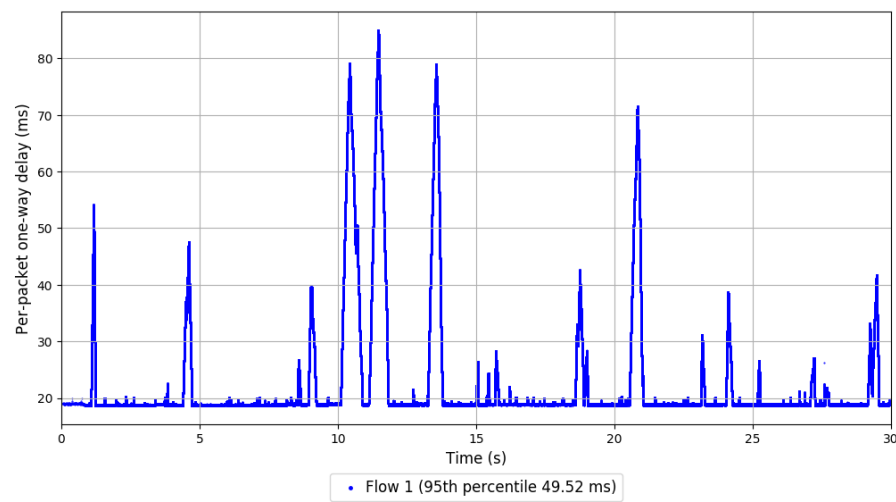
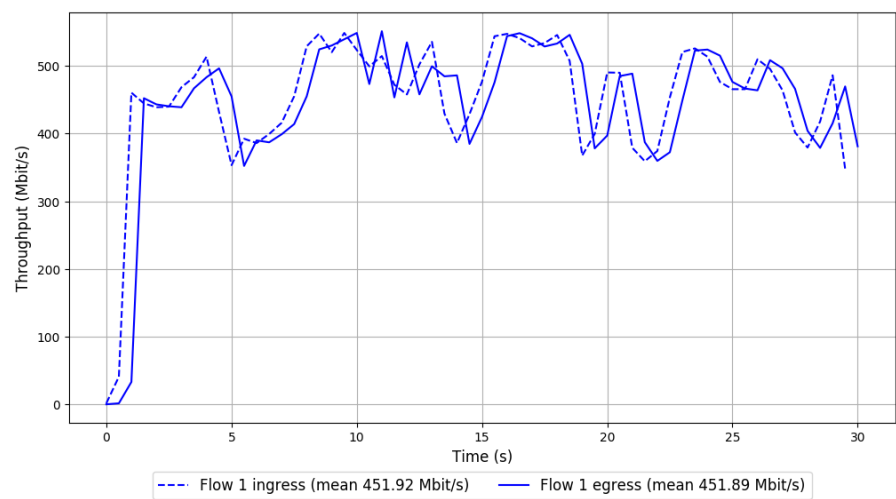
-- Flow 1:

Average throughput: 451.89 Mbit/s

95th percentile per-packet one-way delay: 49.516 ms

Loss rate: 0.01%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 21:09:55

End at: 2018-08-27 21:10:25

Local clock offset: -1.767 ms

Remote clock offset: 3.499 ms

Below is generated by plot.py at 2018-08-28 02:07:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 423.16 Mbit/s

95th percentile per-packet one-way delay: 36.035 ms

Loss rate: 0.01%

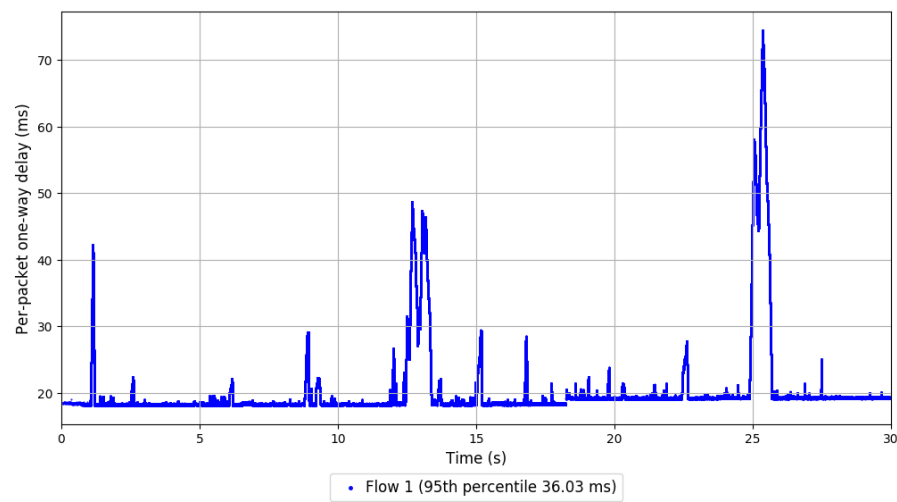
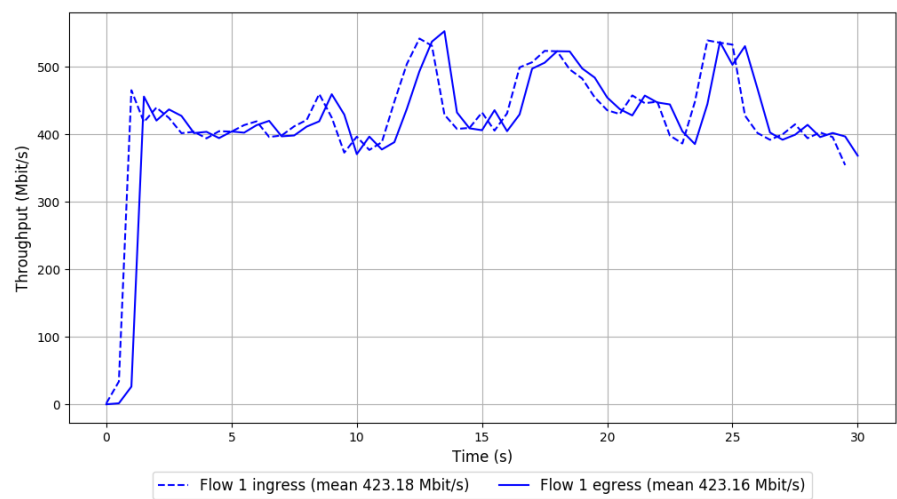
-- Flow 1:

Average throughput: 423.16 Mbit/s

95th percentile per-packet one-way delay: 36.035 ms

Loss rate: 0.01%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-27 21:34:29

End at: 2018-08-27 21:34:59

Local clock offset: 0.229 ms

Remote clock offset: -0.867 ms

Below is generated by plot.py at 2018-08-28 02:07:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 413.51 Mbit/s

95th percentile per-packet one-way delay: 32.720 ms

Loss rate: 0.01%

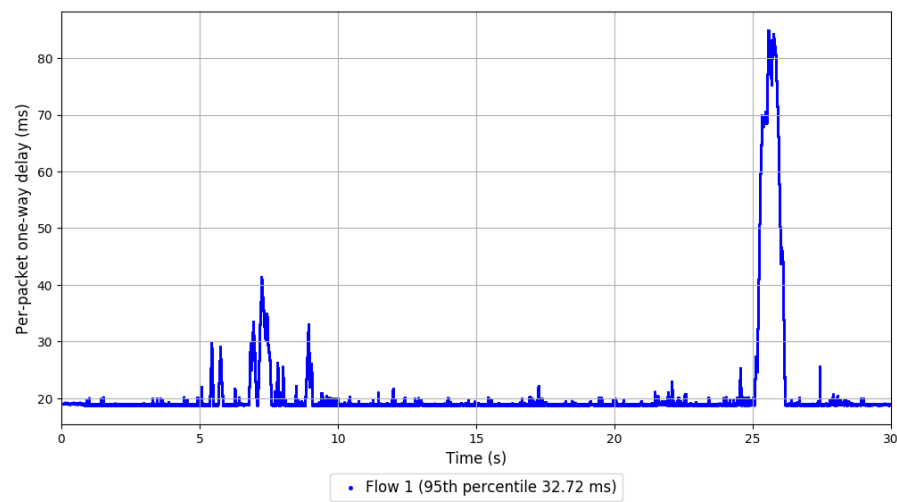
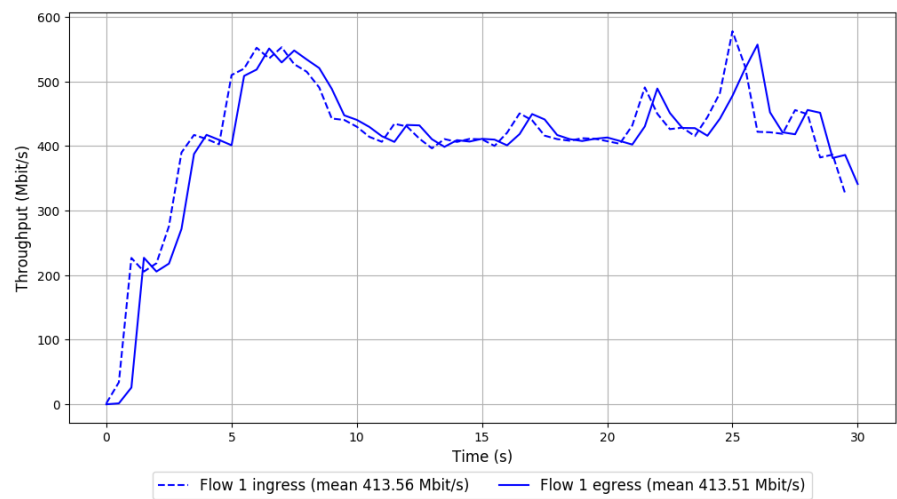
-- Flow 1:

Average throughput: 413.51 Mbit/s

95th percentile per-packet one-way delay: 32.720 ms

Loss rate: 0.01%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 21:59:03

End at: 2018-08-27 21:59:33

Local clock offset: 0.309 ms

Remote clock offset: -0.609 ms

Below is generated by plot.py at 2018-08-28 02:07:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 451.61 Mbit/s

95th percentile per-packet one-way delay: 129.634 ms

Loss rate: 0.20%

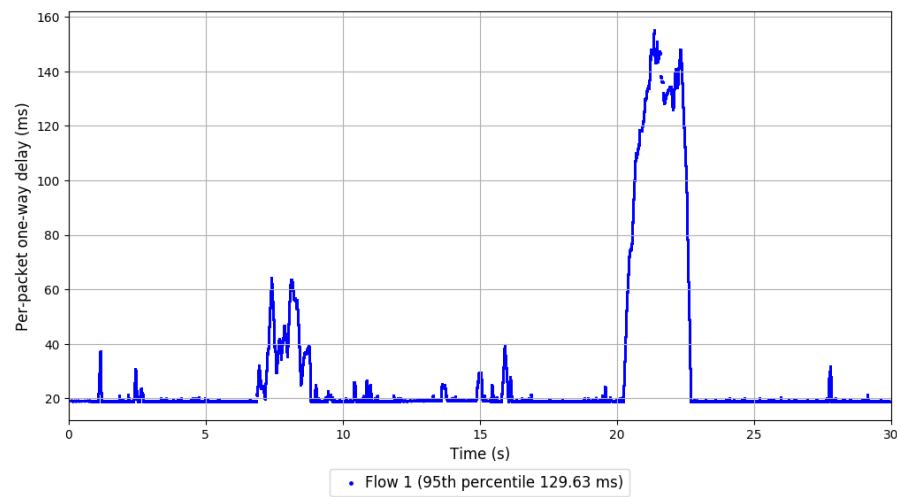
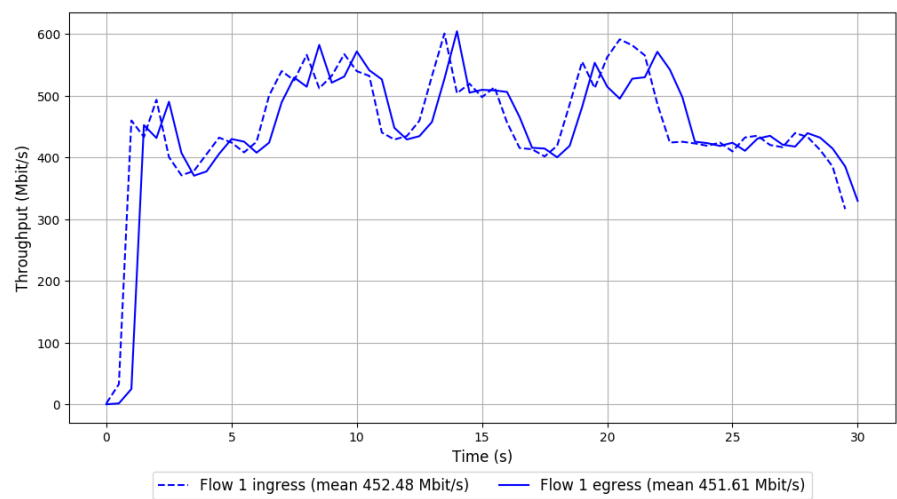
-- Flow 1:

Average throughput: 451.61 Mbit/s

95th percentile per-packet one-way delay: 129.634 ms

Loss rate: 0.20%

Run 4: Report of PCC-Vivace — Data Link

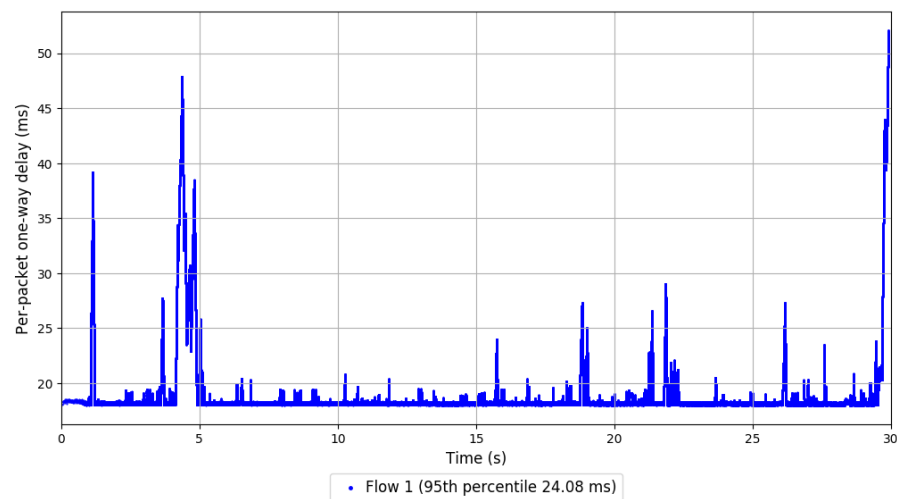
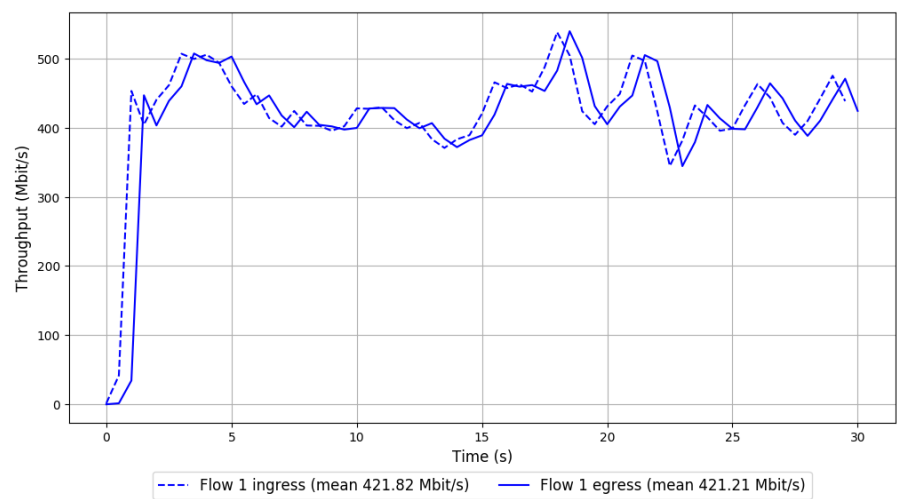


Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 22:23:30
End at: 2018-08-27 22:24:00
Local clock offset: 0.32 ms
Remote clock offset: -0.662 ms

Below is generated by plot.py at 2018-08-28 02:07:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 421.21 Mbit/s
95th percentile per-packet one-way delay: 24.077 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 421.21 Mbit/s
95th percentile per-packet one-way delay: 24.077 ms
Loss rate: 0.15%

Run 5: Report of PCC-Vivace — Data Link

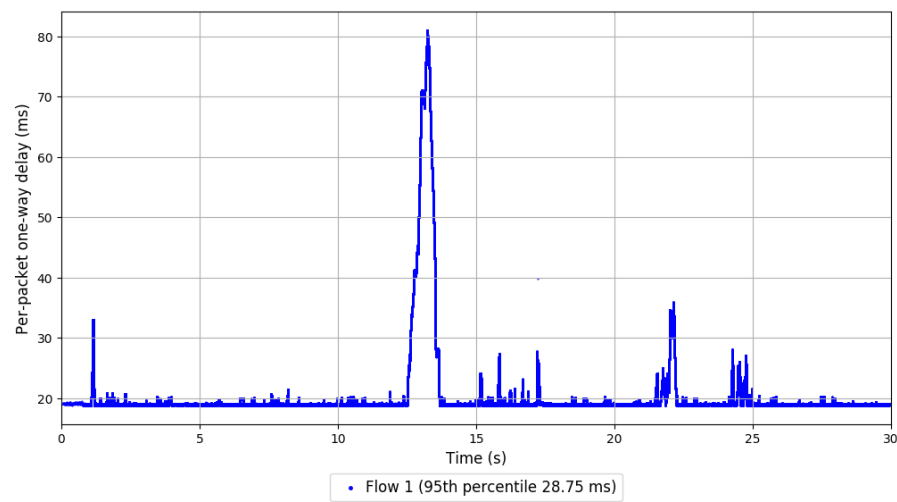
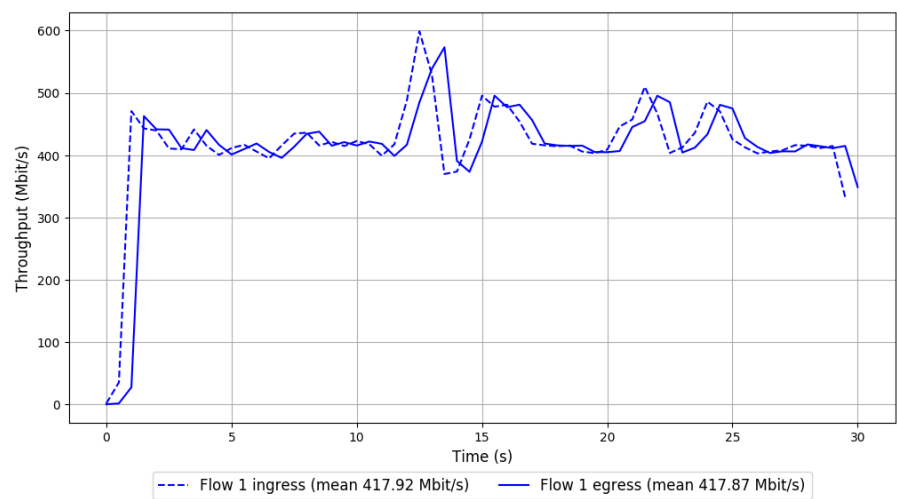


Run 6: Statistics of PCC-Vivace

Start at: 2018-08-27 22:47:59
End at: 2018-08-27 22:48:29
Local clock offset: 0.395 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-08-28 02:08:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 417.87 Mbit/s
95th percentile per-packet one-way delay: 28.749 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 417.87 Mbit/s
95th percentile per-packet one-way delay: 28.749 ms
Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 23:12:33

End at: 2018-08-27 23:13:03

Local clock offset: 0.443 ms

Remote clock offset: 3.387 ms

Below is generated by plot.py at 2018-08-28 02:08:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 383.23 Mbit/s

95th percentile per-packet one-way delay: 18.973 ms

Loss rate: 0.01%

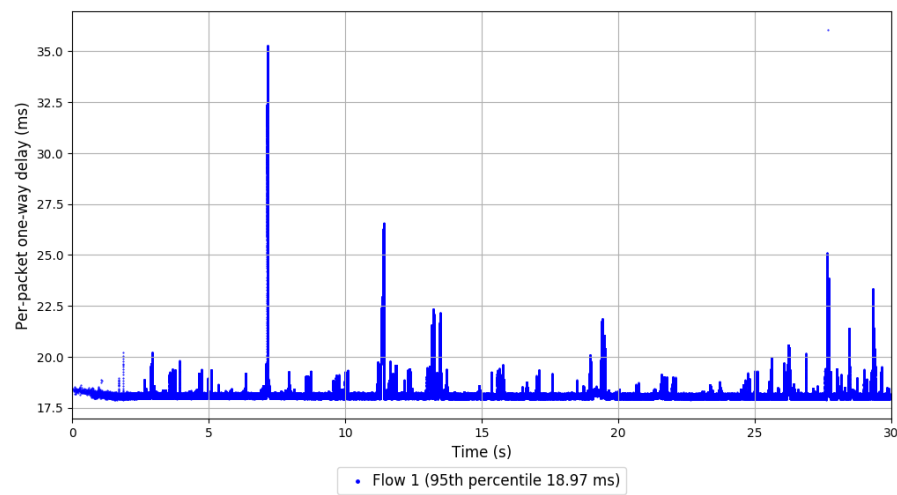
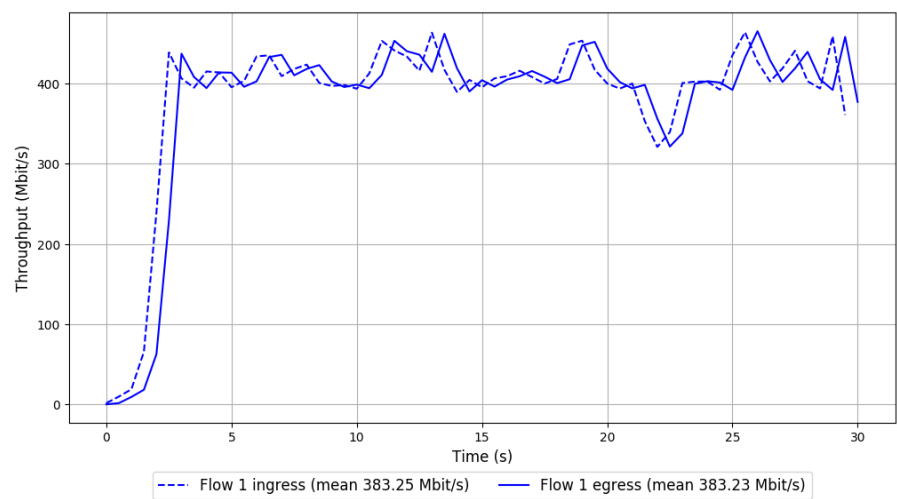
-- Flow 1:

Average throughput: 383.23 Mbit/s

95th percentile per-packet one-way delay: 18.973 ms

Loss rate: 0.01%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 23:37:03

End at: 2018-08-27 23:37:33

Local clock offset: 0.393 ms

Remote clock offset: 2.205 ms

Below is generated by plot.py at 2018-08-28 02:08:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.85 Mbit/s

95th percentile per-packet one-way delay: 21.533 ms

Loss rate: 0.01%

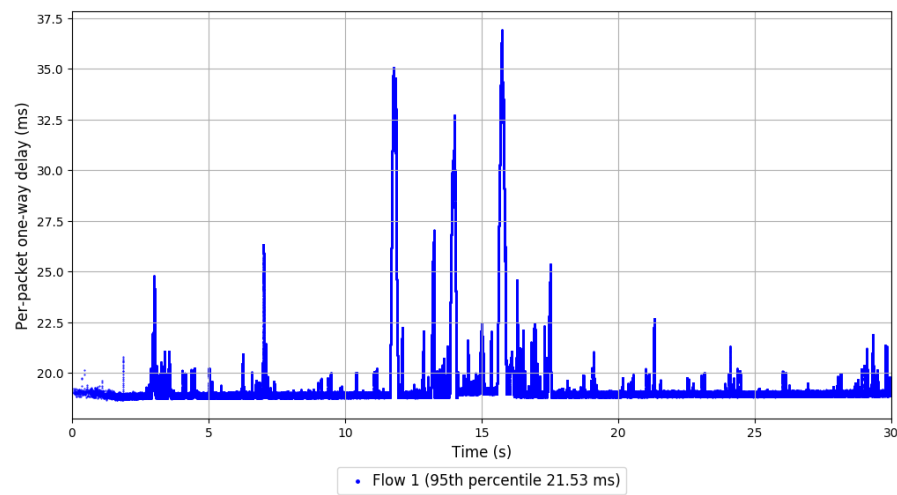
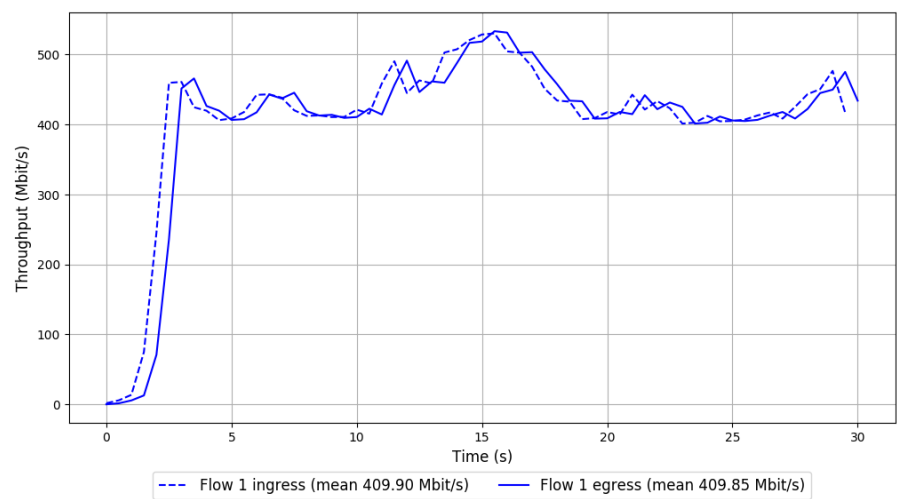
-- Flow 1:

Average throughput: 409.85 Mbit/s

95th percentile per-packet one-way delay: 21.533 ms

Loss rate: 0.01%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-28 00:01:32

End at: 2018-08-28 00:02:02

Local clock offset: 0.036 ms

Remote clock offset: -0.295 ms

Below is generated by plot.py at 2018-08-28 02:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 431.84 Mbit/s

95th percentile per-packet one-way delay: 25.753 ms

Loss rate: 0.02%

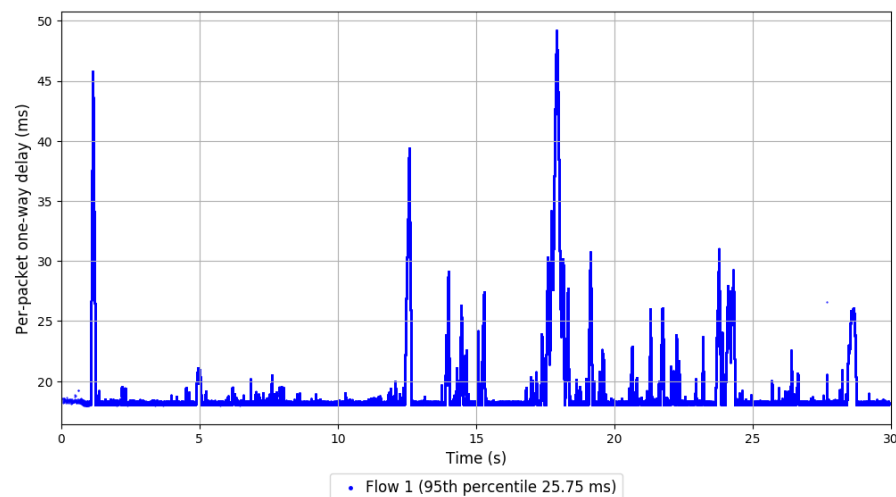
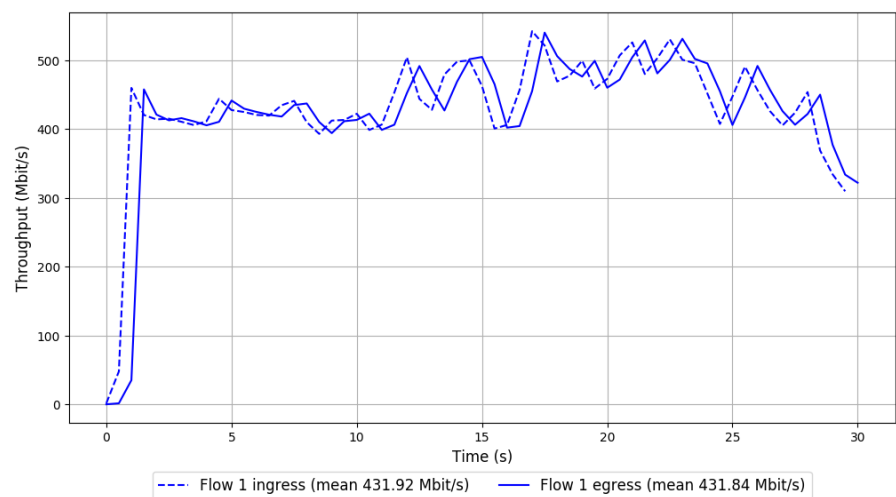
-- Flow 1:

Average throughput: 431.84 Mbit/s

95th percentile per-packet one-way delay: 25.753 ms

Loss rate: 0.02%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-28 00:26:10

End at: 2018-08-28 00:26:41

Local clock offset: -0.038 ms

Remote clock offset: -1.05 ms

Below is generated by plot.py at 2018-08-28 02:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.92 Mbit/s

95th percentile per-packet one-way delay: 23.492 ms

Loss rate: 0.01%

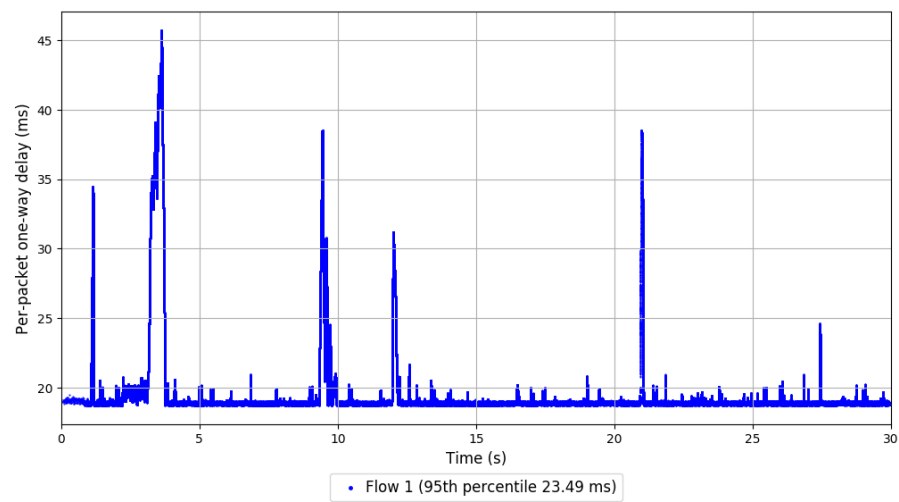
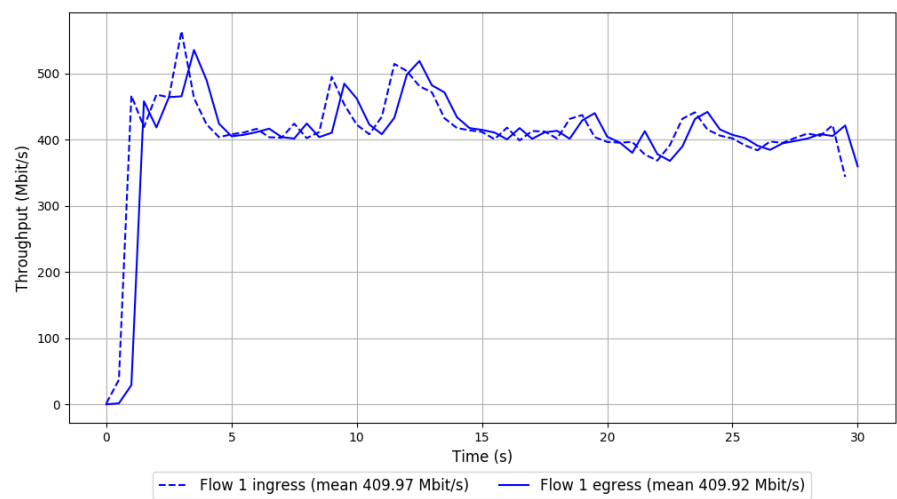
-- Flow 1:

Average throughput: 409.92 Mbit/s

95th percentile per-packet one-way delay: 23.492 ms

Loss rate: 0.01%

Run 10: Report of PCC-Vivace — Data Link

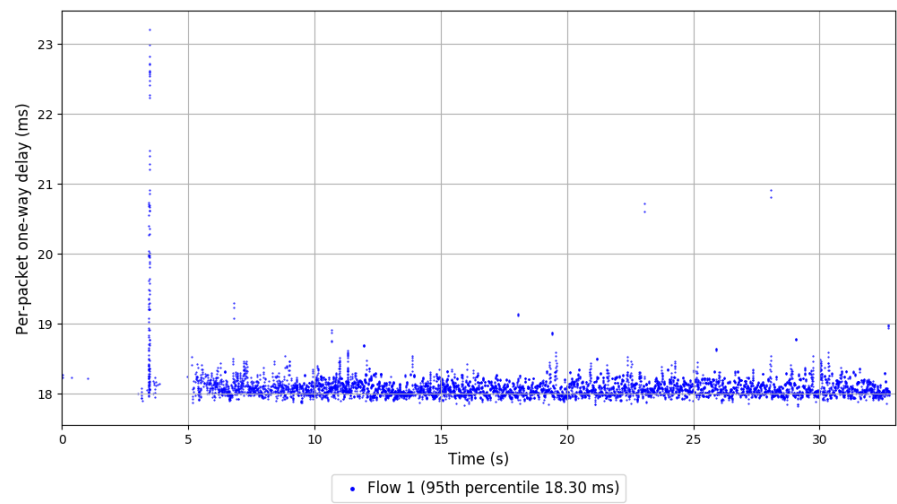
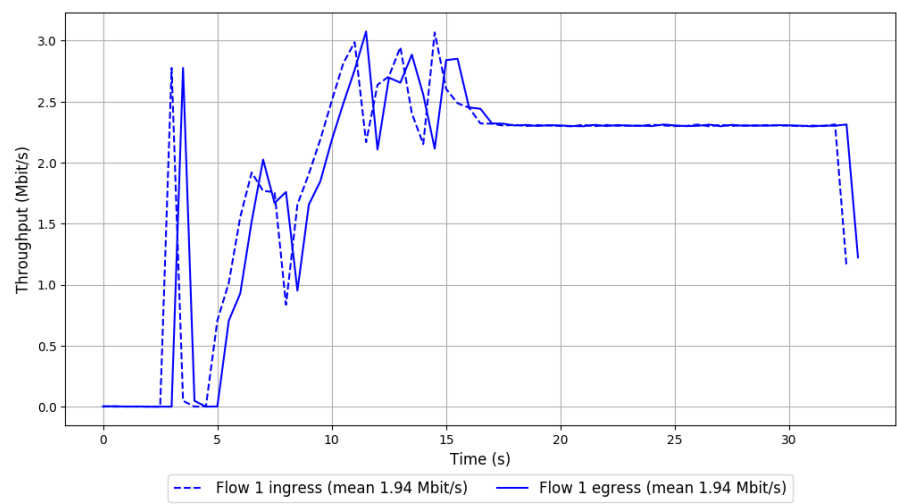


```
Run 1: Statistics of WebRTC media

Start at: 2018-08-27 20:41:35
End at: 2018-08-27 20:42:05
Local clock offset: -3.333 ms
Remote clock offset: 3.416 ms

# Below is generated by plot.py at 2018-08-28 02:08:52
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.305 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.305 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 21:06:02

End at: 2018-08-27 21:06:32

Local clock offset: -3.093 ms

Remote clock offset: 3.459 ms

Below is generated by plot.py at 2018-08-28 02:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 19.575 ms

Loss rate: 0.00%

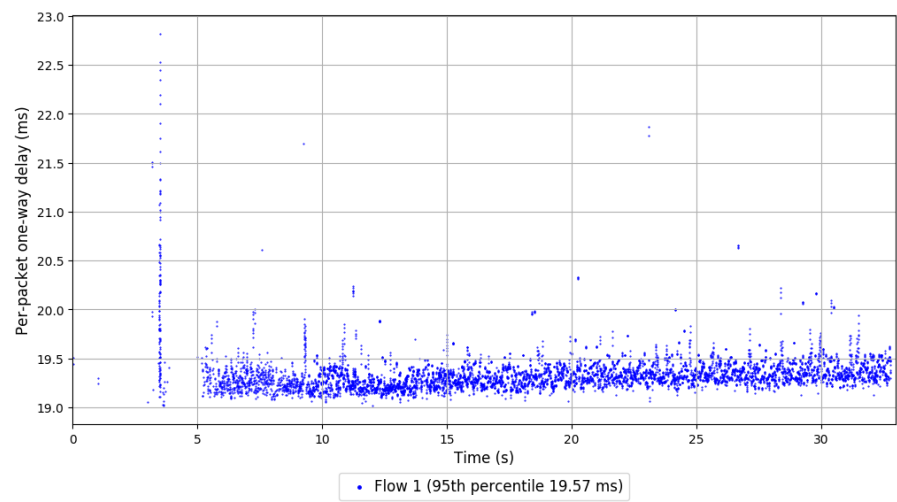
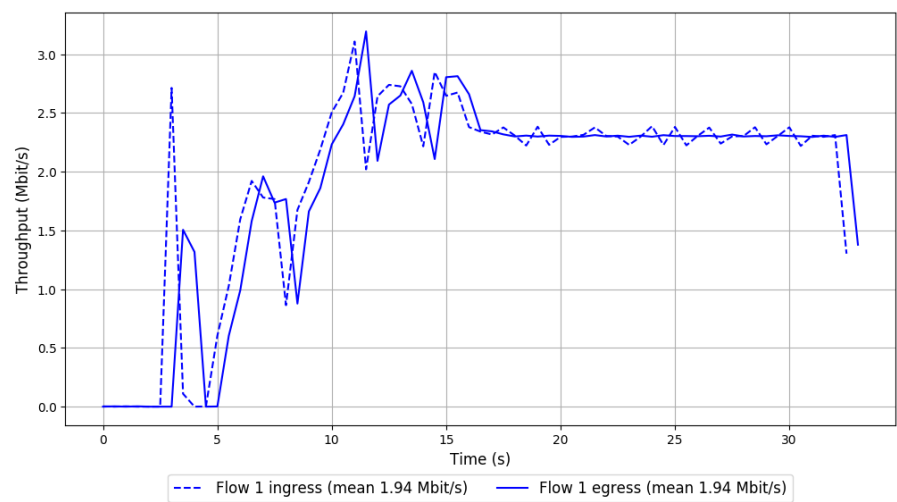
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 19.575 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

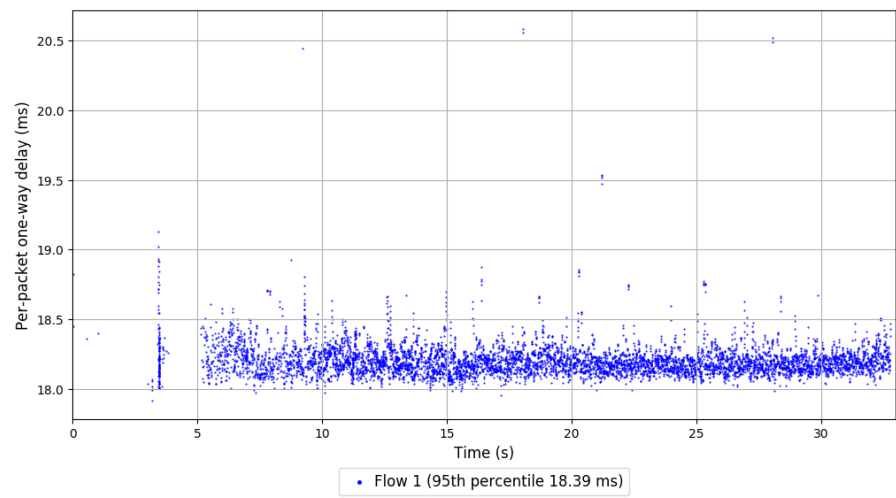
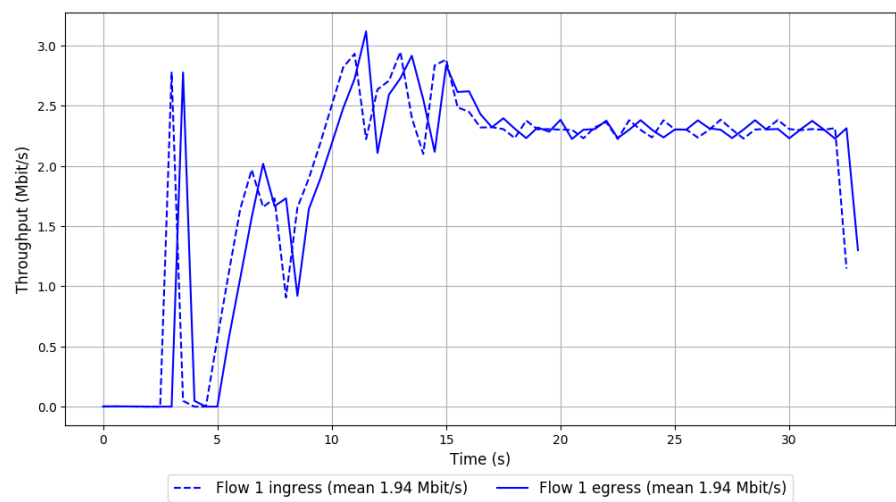


Run 3: Statistics of WebRTC media

Start at: 2018-08-27 21:30:35
End at: 2018-08-27 21:31:05
Local clock offset: 0.162 ms
Remote clock offset: -0.504 ms

Below is generated by plot.py at 2018-08-28 02:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.386 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.386 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

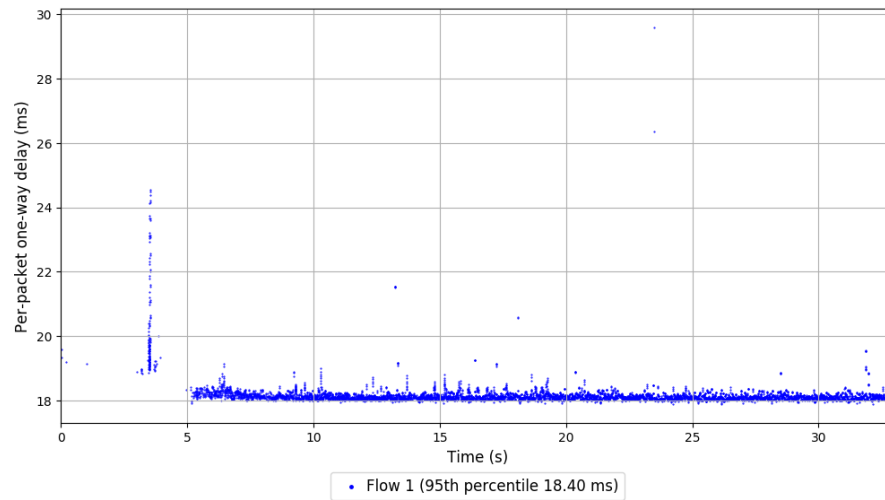
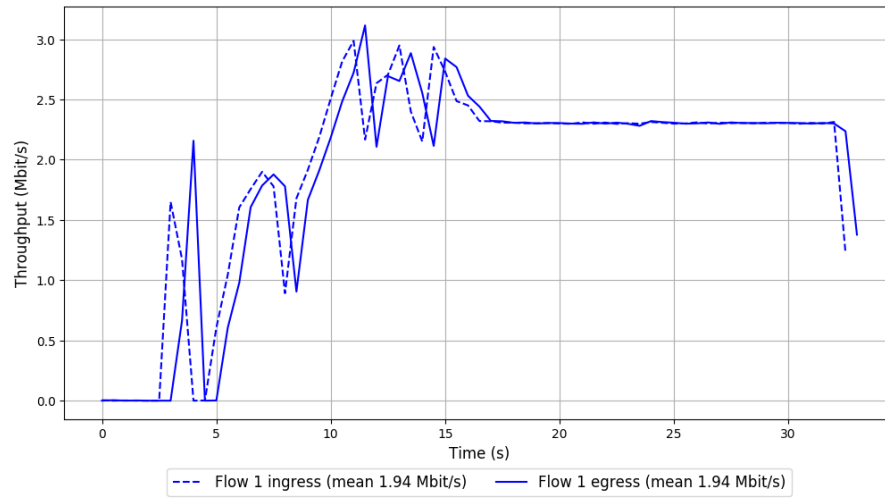


Run 4: Statistics of WebRTC media

Start at: 2018-08-27 21:55:10
End at: 2018-08-27 21:55:40
Local clock offset: 0.293 ms
Remote clock offset: -0.917 ms

Below is generated by plot.py at 2018-08-28 02:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.397 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

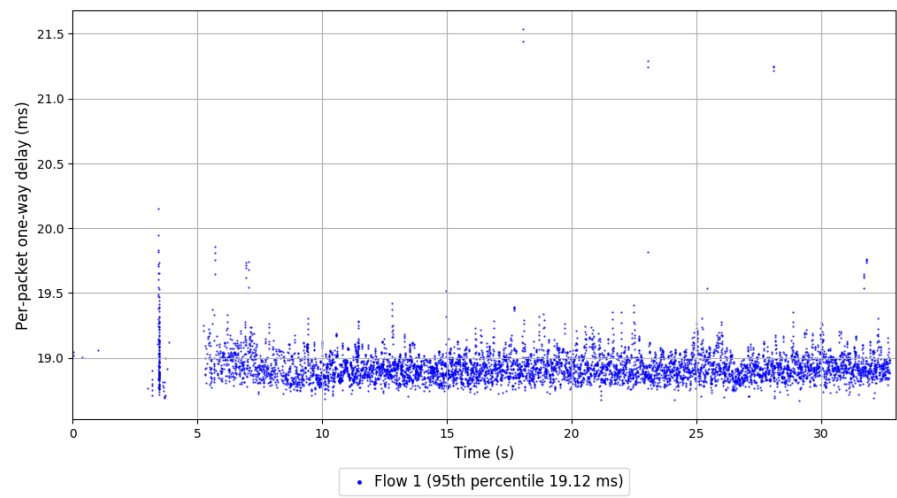
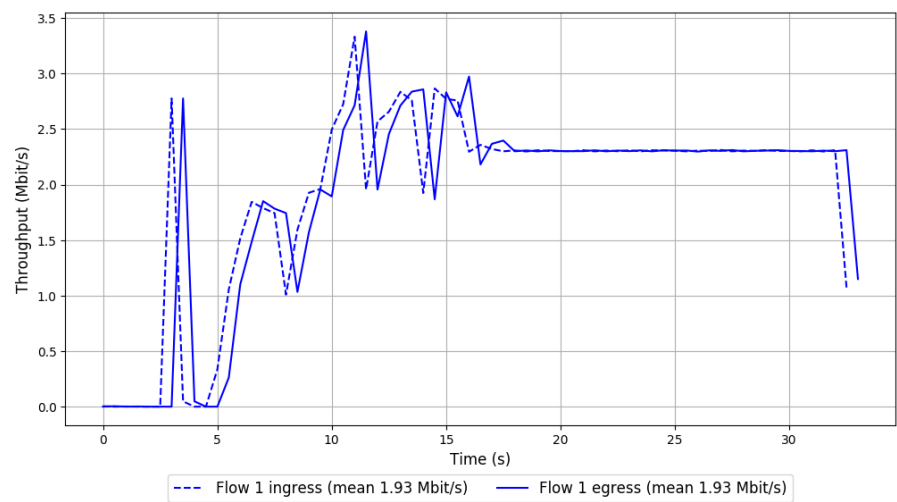


Run 5: Statistics of WebRTC media

Start at: 2018-08-27 22:19:37
End at: 2018-08-27 22:20:07
Local clock offset: 0.305 ms
Remote clock offset: -0.801 ms

Below is generated by plot.py at 2018-08-28 02:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 19.122 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 19.122 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

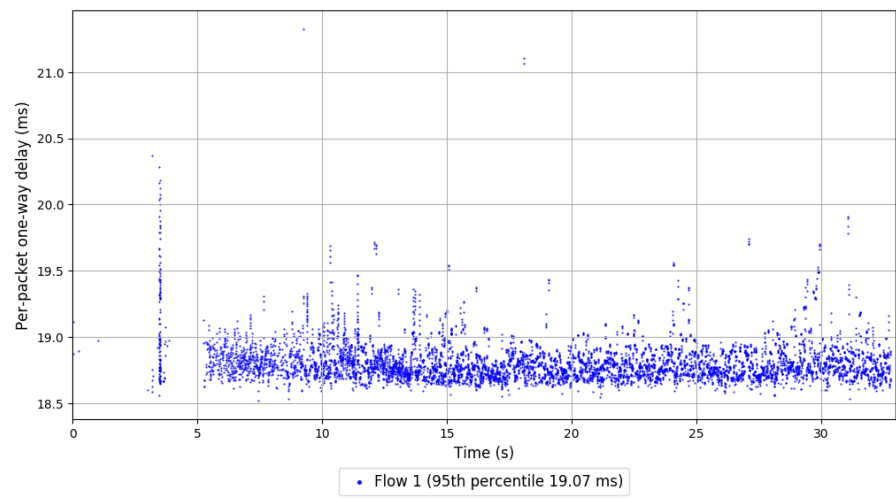
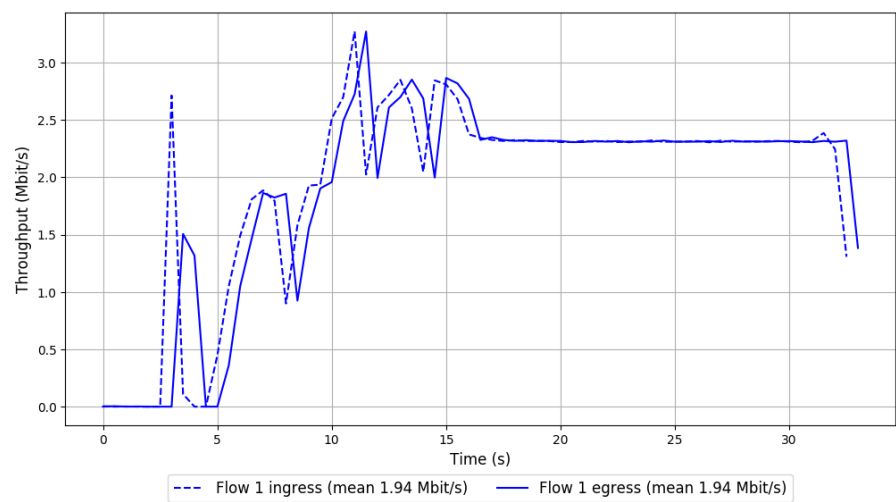


Run 6: Statistics of WebRTC media

Start at: 2018-08-27 22:44:06
End at: 2018-08-27 22:44:36
Local clock offset: 0.38 ms
Remote clock offset: -0.246 ms

Below is generated by plot.py at 2018-08-28 02:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 19.066 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 19.066 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-27 23:08:39

End at: 2018-08-27 23:09:09

Local clock offset: 0.349 ms

Remote clock offset: 2.825 ms

Below is generated by plot.py at 2018-08-28 02:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 19.055 ms

Loss rate: 0.00%

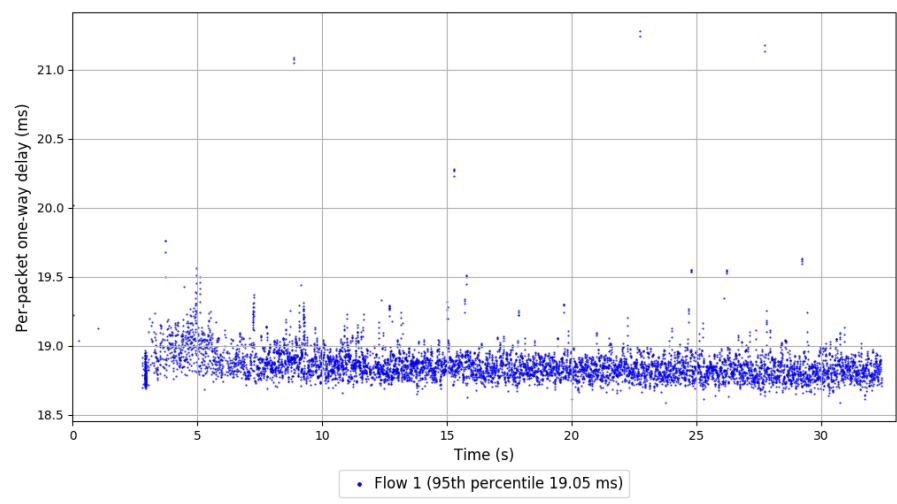
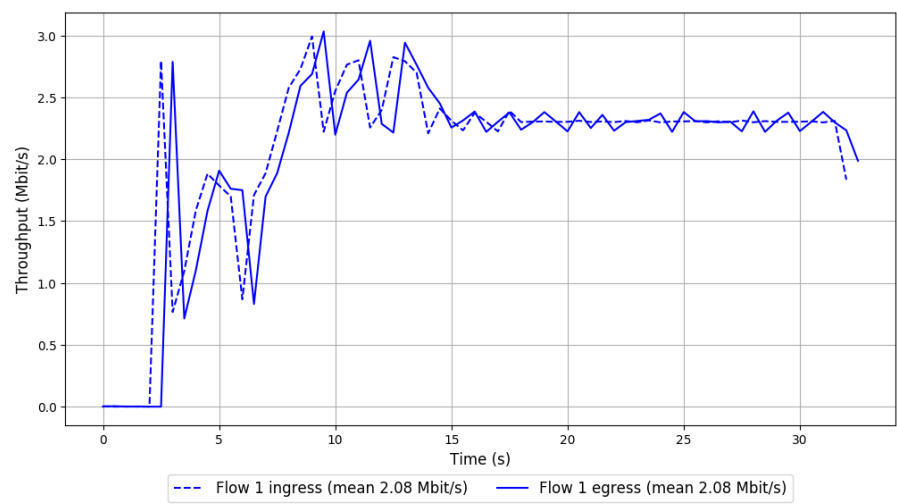
-- Flow 1:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 19.055 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-27 23:33:09

End at: 2018-08-27 23:33:39

Local clock offset: 0.519 ms

Remote clock offset: 3.474 ms

Below is generated by plot.py at 2018-08-28 02:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 19.411 ms

Loss rate: 0.03%

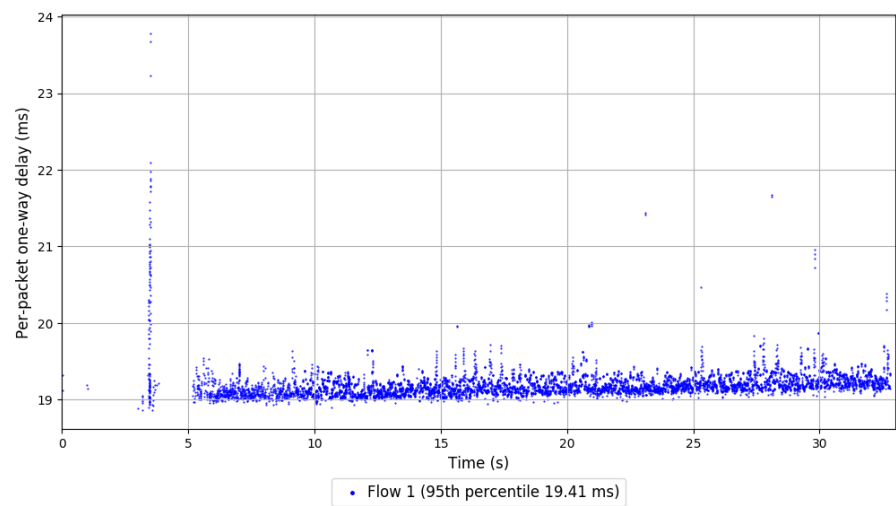
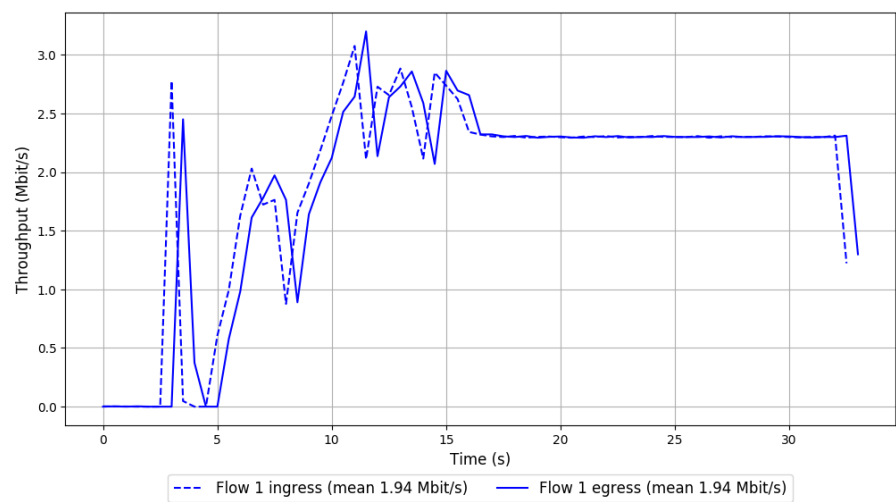
-- Flow 1:

Average throughput: 1.94 Mbit/s

95th percentile per-packet one-way delay: 19.411 ms

Loss rate: 0.03%

Run 8: Report of WebRTC media — Data Link

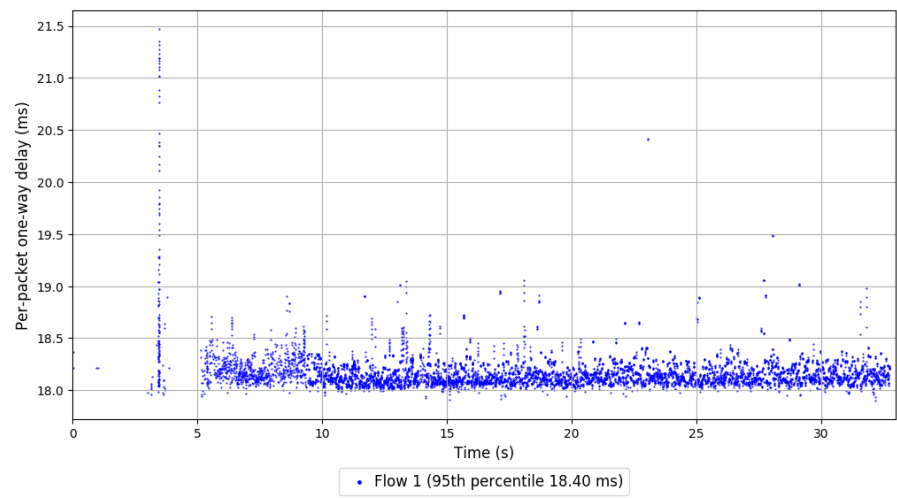
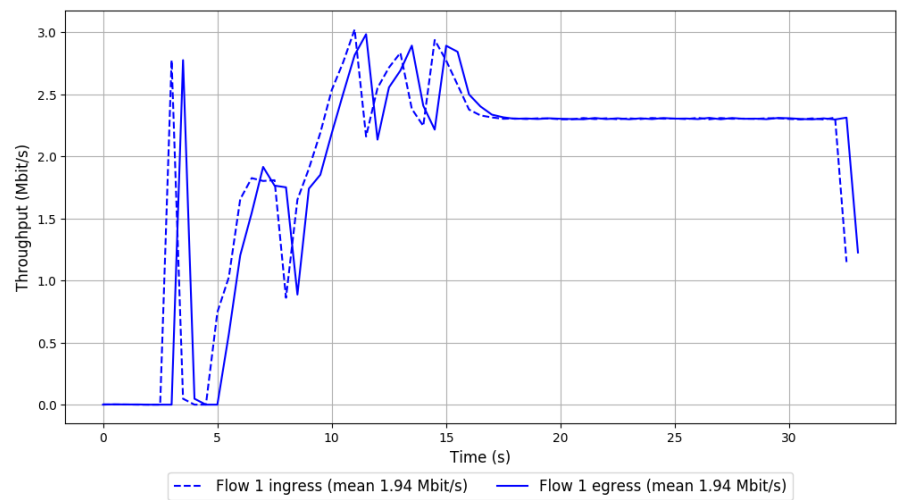


Run 9: Statistics of WebRTC media

Start at: 2018-08-27 23:57:38
End at: 2018-08-27 23:58:08
Local clock offset: 0.167 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-08-28 02:08:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.400 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 18.400 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-28 00:22:17

End at: 2018-08-28 00:22:47

Local clock offset: 0.089 ms

Remote clock offset: -0.955 ms

Below is generated by plot.py at 2018-08-28 02:08:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 17.617 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 17.617 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

