

Pantheon Report

Generated at 2018-08-27 13:58:45 (UTC).

Data path: GCE Sydney ens4 (*local*) → GCE Iowa ens4 (*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.google.com` and have been applied to correct the timestamps in logs.

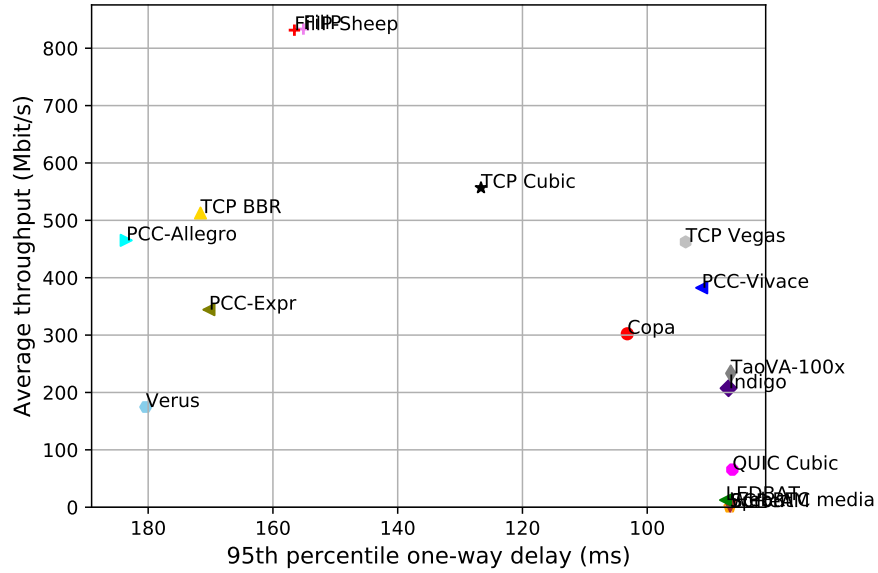
System info:

```
Linux 4.15.0-1015-gcp
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
```

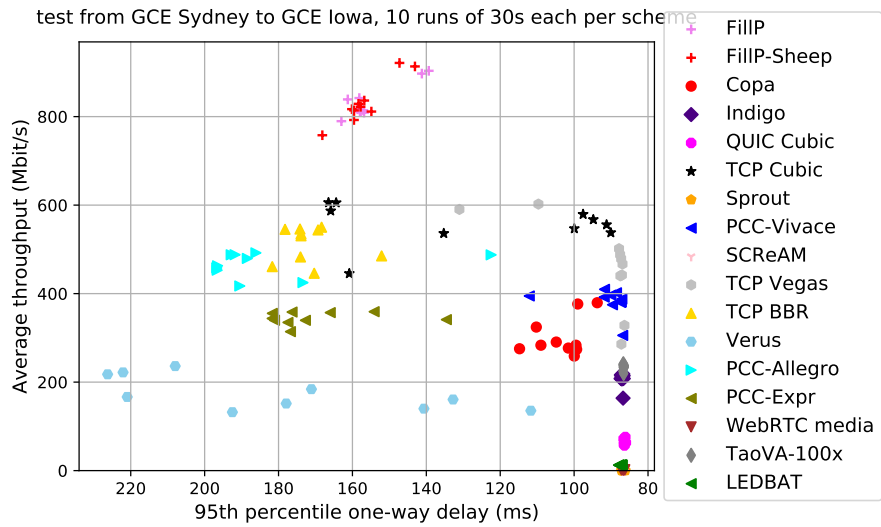
Git summary:

```
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 GCE Sydney to GCE Iowa, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney to GCE Iowa, 10 runs of 30s each per scheme



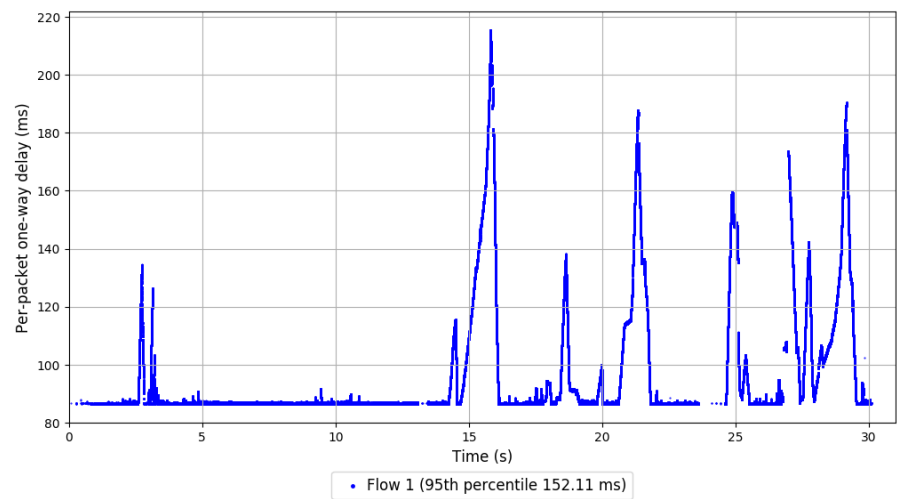
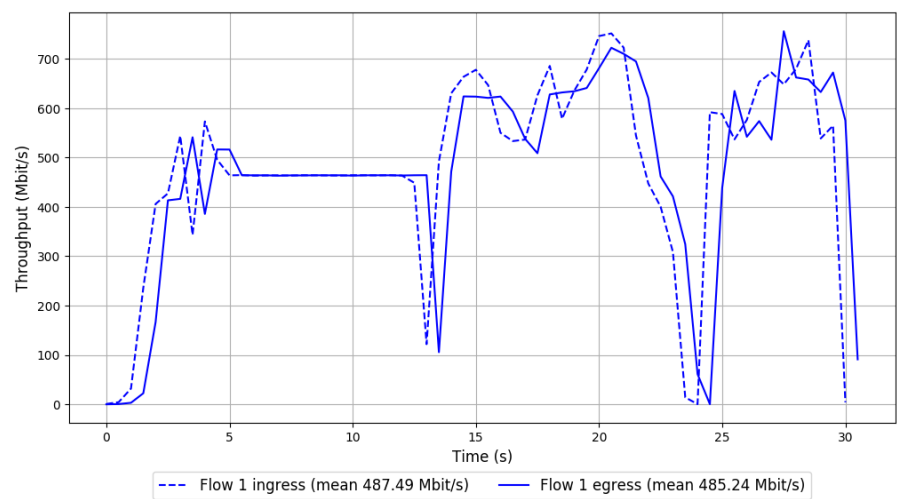
scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	512.63	171.61	0.73
Copa	10	302.29	103.19	0.00
TCP Cubic	10	556.67	126.65	0.06
FillP	10	833.42	155.12	4.00
FillP-Sheep	10	831.48	156.56	4.26
Indigo	10	207.36	86.97	0.00
LEDBAT	10	12.47	87.44	0.00
PCC-Allegro	10	465.12	183.52	1.73
PCC-Expr	10	344.33	170.26	1.97
QUIC Cubic	6	65.56	86.35	0.00
SCReAM	10	0.22	86.62	0.00
Sprout	10	0.33	86.78	0.00
TaoVA-100x	10	233.24	86.61	0.00
TCP Vegas	10	462.37	93.84	0.01
Verus	10	174.63	180.39	2.95
PCC-Vivace	10	382.42	91.27	0.00
WebRTC media	10	1.95	86.70	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-27 07:02:21
End at: 2018-08-27 07:02:51
Local clock offset: 19.605 ms
Remote clock offset: 20.211 ms

Below is generated by plot.py at 2018-08-27 11:28:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 485.24 Mbit/s
95th percentile per-packet one-way delay: 152.106 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 485.24 Mbit/s
95th percentile per-packet one-way delay: 152.106 ms
Loss rate: 0.46%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-08-27 07:26:29

End at: 2018-08-27 07:26:59

Local clock offset: 7.636 ms

Remote clock offset: 7.834 ms

Below is generated by plot.py at 2018-08-27 11:28:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 482.85 Mbit/s

95th percentile per-packet one-way delay: 174.058 ms

Loss rate: 0.71%

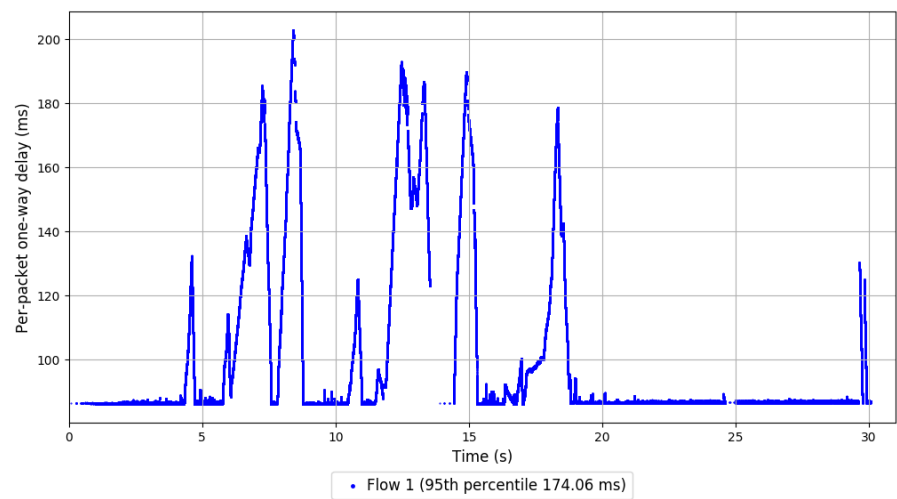
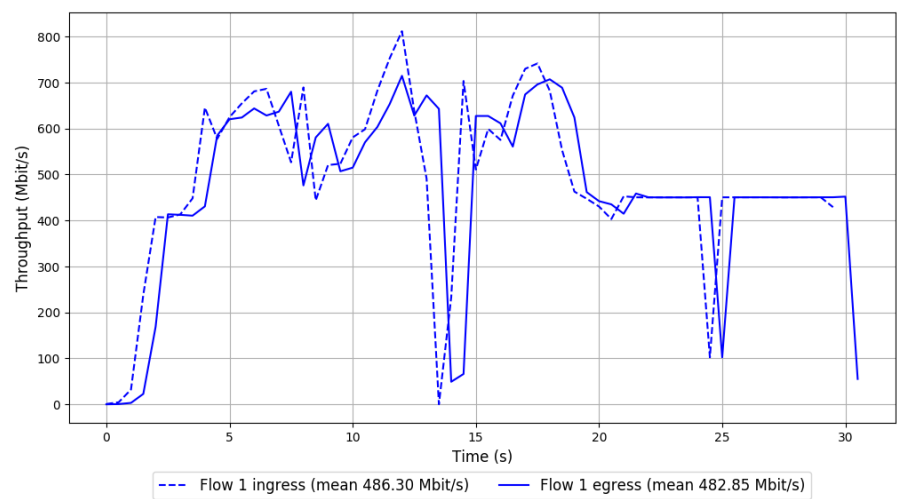
-- Flow 1:

Average throughput: 482.85 Mbit/s

95th percentile per-packet one-way delay: 174.058 ms

Loss rate: 0.71%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-27 07:51:00

End at: 2018-08-27 07:51:30

Local clock offset: 3.031 ms

Remote clock offset: 3.871 ms

Below is generated by plot.py at 2018-08-27 11:28:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.94 Mbit/s

95th percentile per-packet one-way delay: 169.317 ms

Loss rate: 0.82%

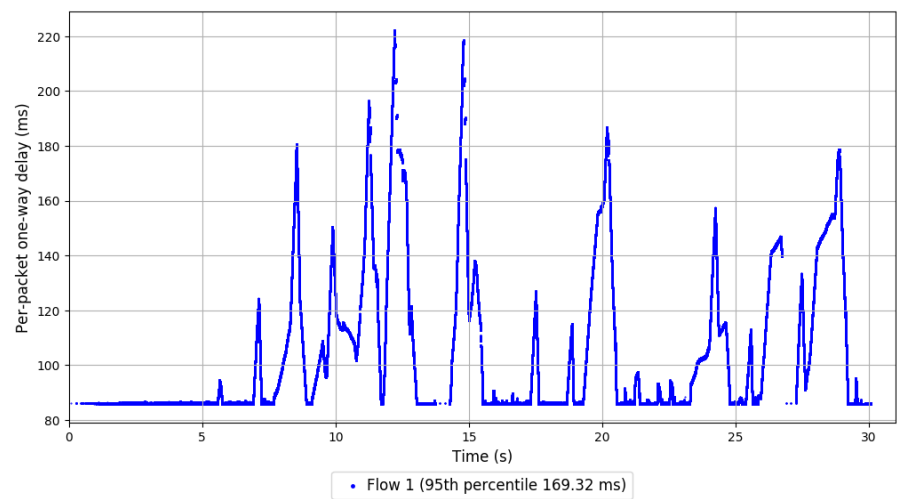
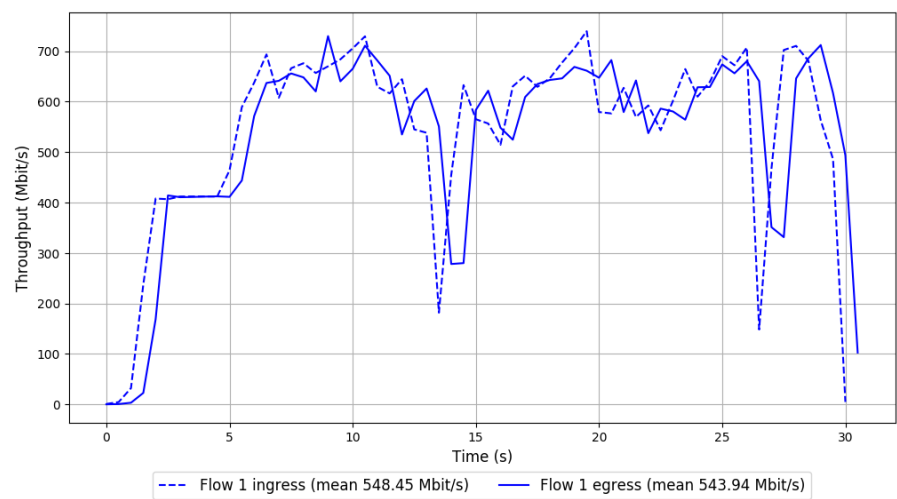
-- Flow 1:

Average throughput: 543.94 Mbit/s

95th percentile per-packet one-way delay: 169.317 ms

Loss rate: 0.82%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-08-27 08:15:14

End at: 2018-08-27 08:15:44

Local clock offset: 1.808 ms

Remote clock offset: 3.292 ms

Below is generated by plot.py at 2018-08-27 11:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.03 Mbit/s

95th percentile per-packet one-way delay: 174.196 ms

Loss rate: 0.57%

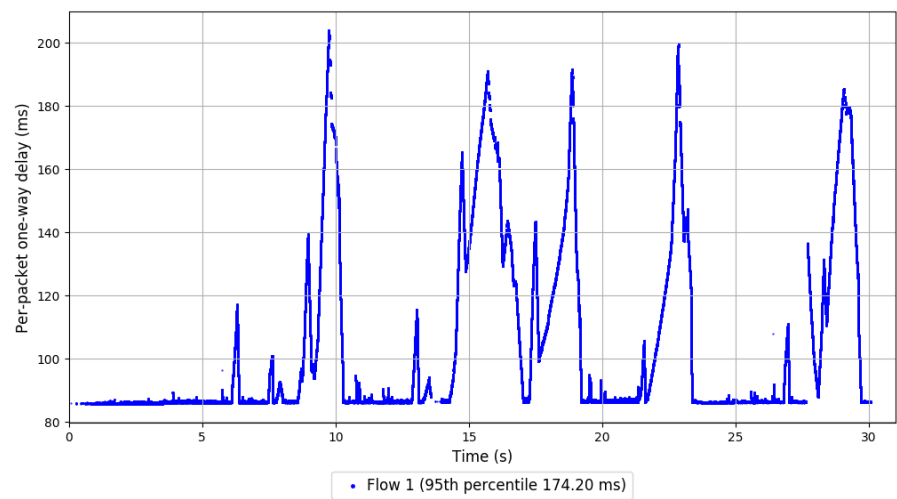
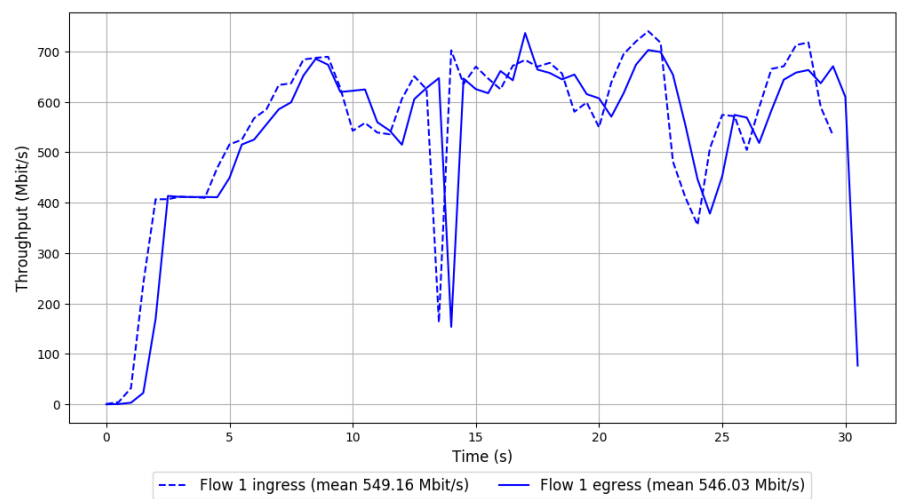
-- Flow 1:

Average throughput: 546.03 Mbit/s

95th percentile per-packet one-way delay: 174.196 ms

Loss rate: 0.57%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-27 08:39:22

End at: 2018-08-27 08:39:52

Local clock offset: 0.783 ms

Remote clock offset: 0.995 ms

Below is generated by plot.py at 2018-08-27 11:28:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 461.03 Mbit/s

95th percentile per-packet one-way delay: 181.696 ms

Loss rate: 1.33%

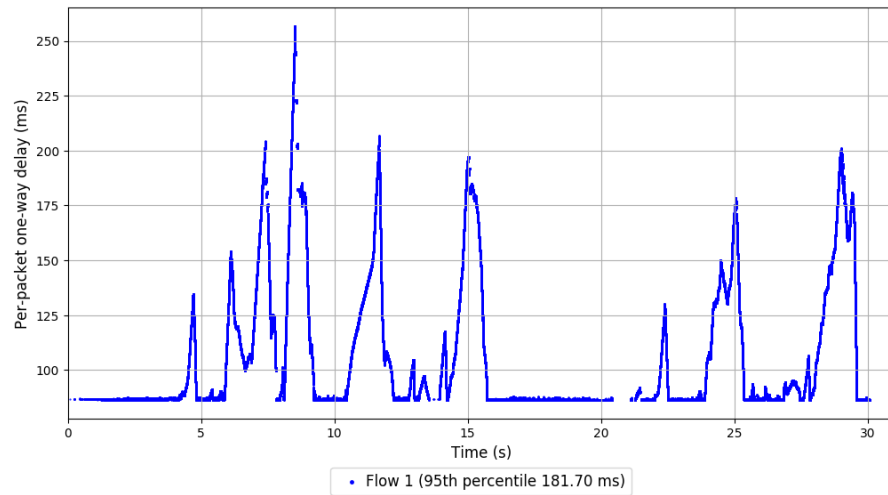
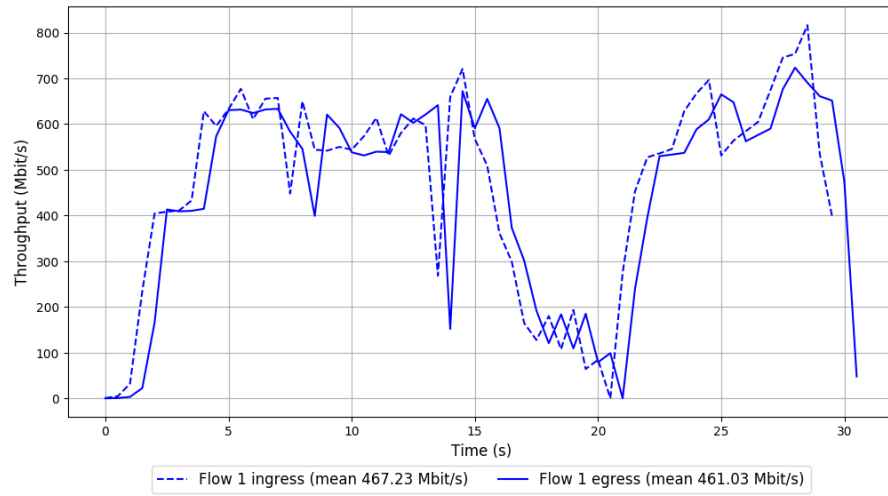
-- Flow 1:

Average throughput: 461.03 Mbit/s

95th percentile per-packet one-way delay: 181.696 ms

Loss rate: 1.33%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-27 09:03:50

End at: 2018-08-27 09:04:20

Local clock offset: 0.305 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-08-27 11:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 550.10 Mbit/s

95th percentile per-packet one-way delay: 168.351 ms

Loss rate: 0.38%

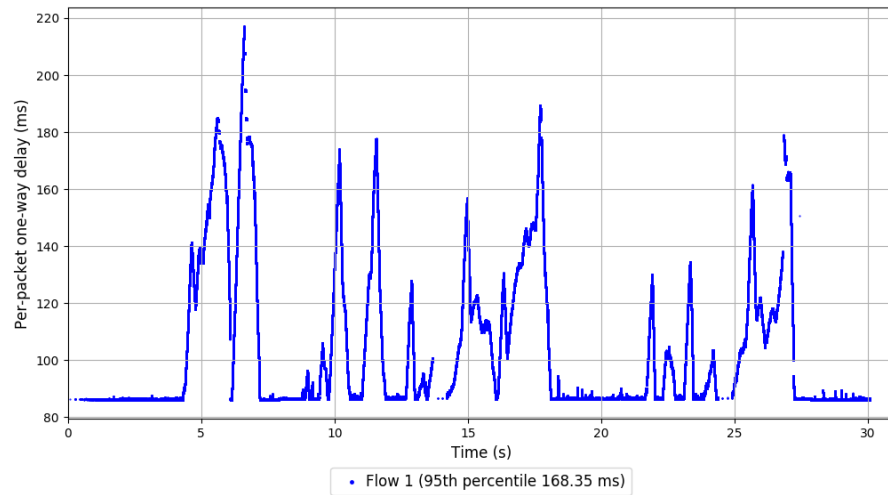
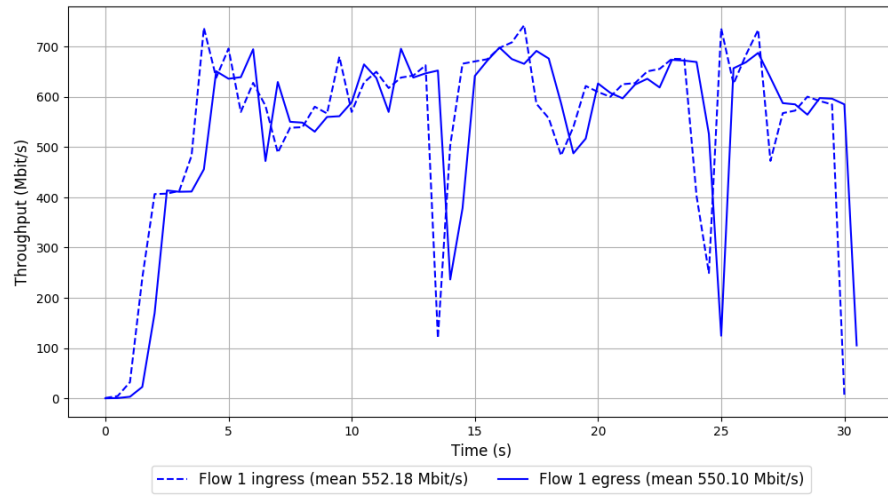
-- Flow 1:

Average throughput: 550.10 Mbit/s

95th percentile per-packet one-way delay: 168.351 ms

Loss rate: 0.38%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-08-27 09:28:22

End at: 2018-08-27 09:28:52

Local clock offset: 0.617 ms

Remote clock offset: 0.257 ms

Below is generated by plot.py at 2018-08-27 11:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 446.02 Mbit/s

95th percentile per-packet one-way delay: 170.338 ms

Loss rate: 0.68%

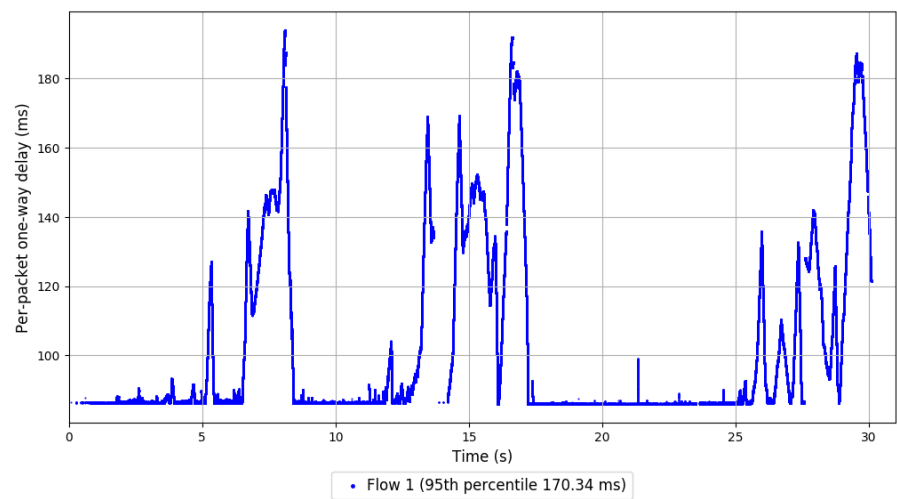
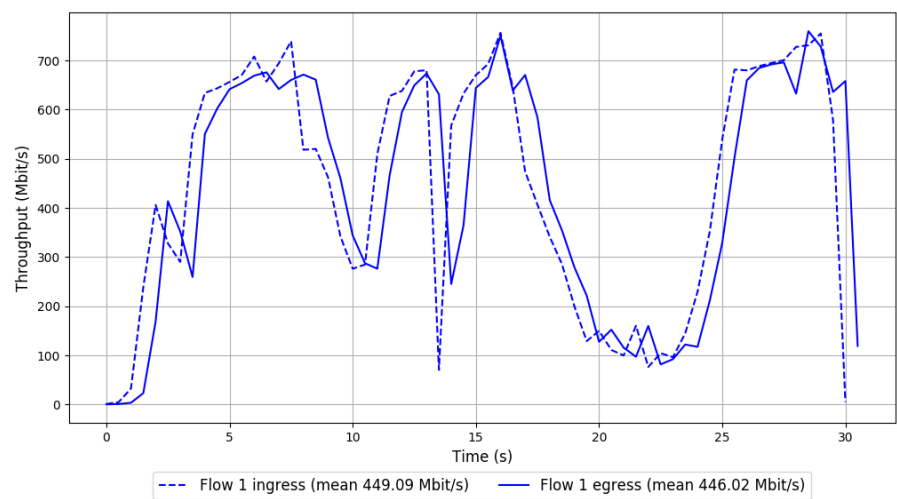
-- Flow 1:

Average throughput: 446.02 Mbit/s

95th percentile per-packet one-way delay: 170.338 ms

Loss rate: 0.68%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-27 09:52:38

End at: 2018-08-27 09:53:08

Local clock offset: 0.569 ms

Remote clock offset: 0.246 ms

Below is generated by plot.py at 2018-08-27 11:29:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.16 Mbit/s

95th percentile per-packet one-way delay: 173.914 ms

Loss rate: 0.65%

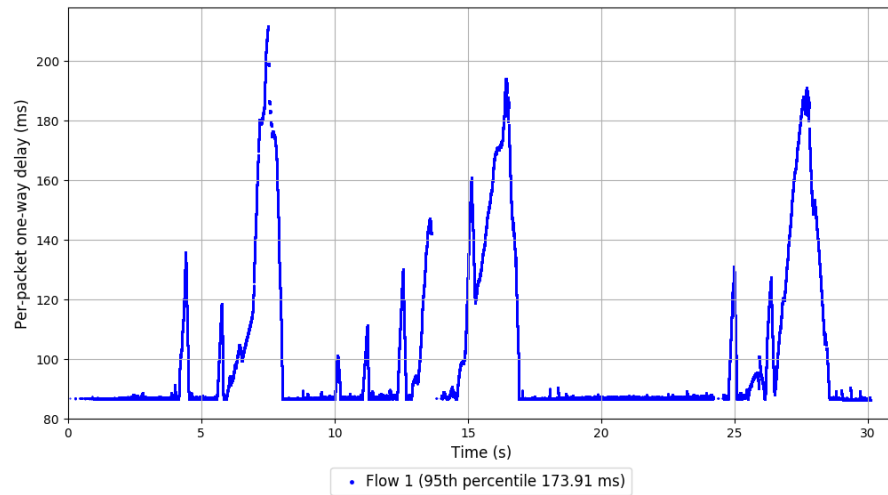
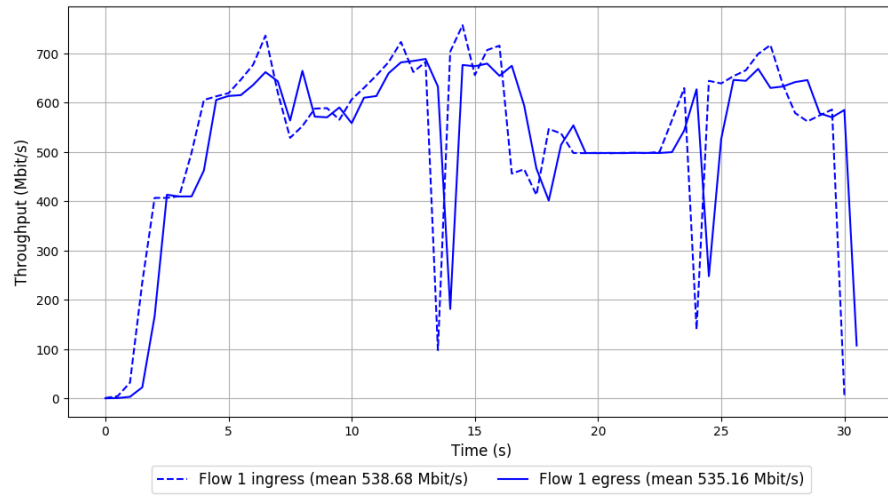
-- Flow 1:

Average throughput: 535.16 Mbit/s

95th percentile per-packet one-way delay: 173.914 ms

Loss rate: 0.65%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-08-27 10:17:03

End at: 2018-08-27 10:17:33

Local clock offset: 0.07 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-08-27 11:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 530.66 Mbit/s

95th percentile per-packet one-way delay: 173.917 ms

Loss rate: 0.89%

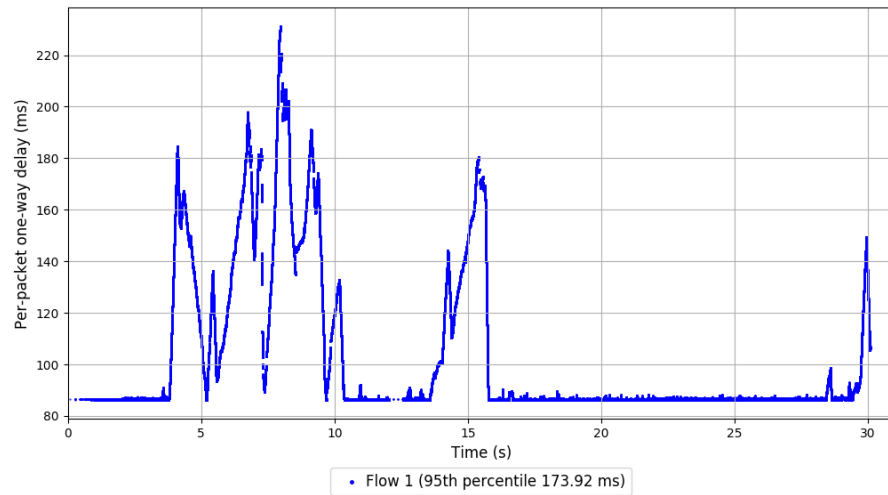
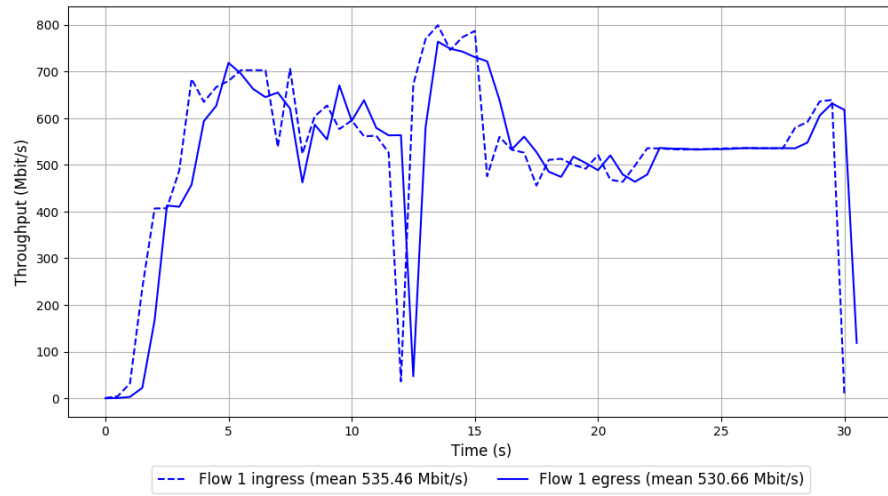
-- Flow 1:

Average throughput: 530.66 Mbit/s

95th percentile per-packet one-way delay: 173.917 ms

Loss rate: 0.89%

Run 9: Report of TCP BBR — Data Link

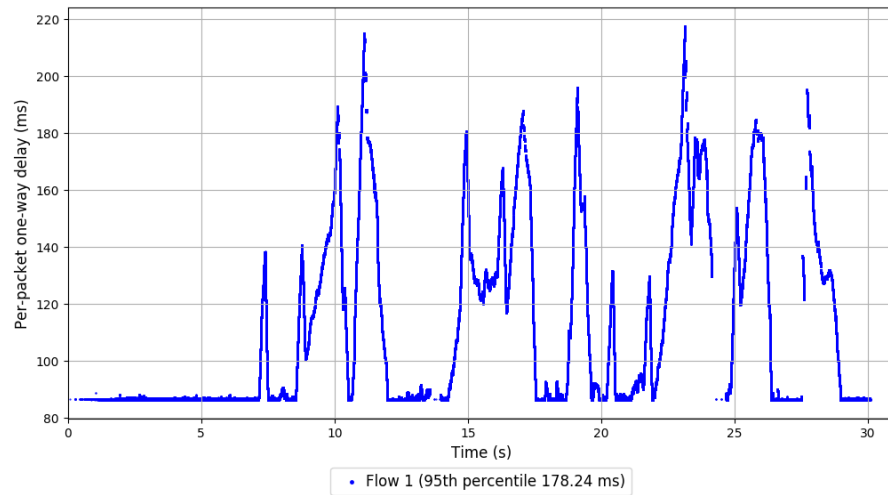
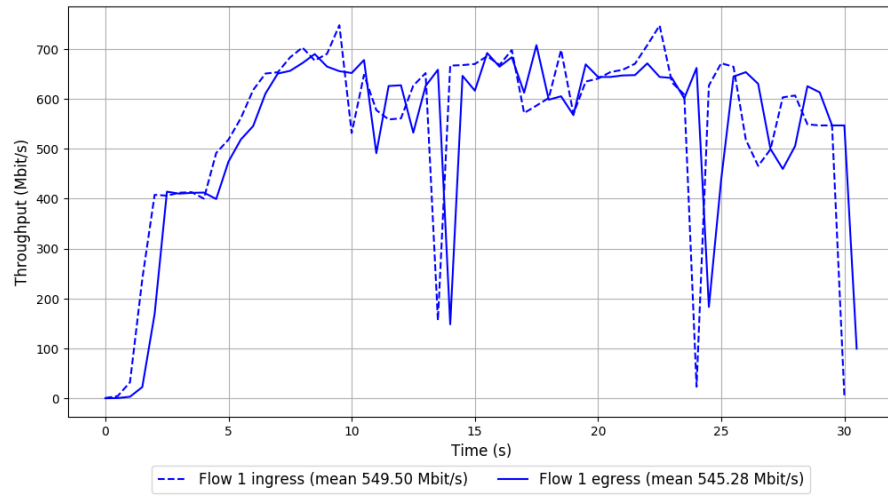


Run 10: Statistics of TCP BBR

Start at: 2018-08-27 10:41:25
End at: 2018-08-27 10:41:55
Local clock offset: -0.173 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-08-27 11:37:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 545.28 Mbit/s
95th percentile per-packet one-way delay: 178.242 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 545.28 Mbit/s
95th percentile per-packet one-way delay: 178.242 ms
Loss rate: 0.77%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-08-27 07:21:01

End at: 2018-08-27 07:21:31

Local clock offset: 7.468 ms

Remote clock offset: 7.604 ms

Below is generated by plot.py at 2018-08-27 11:37:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 283.34 Mbit/s

95th percentile per-packet one-way delay: 99.497 ms

Loss rate: 0.00%

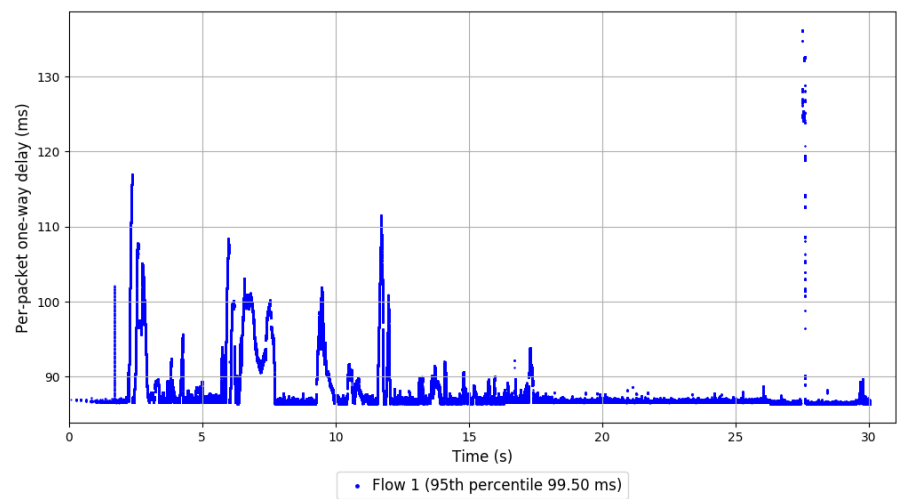
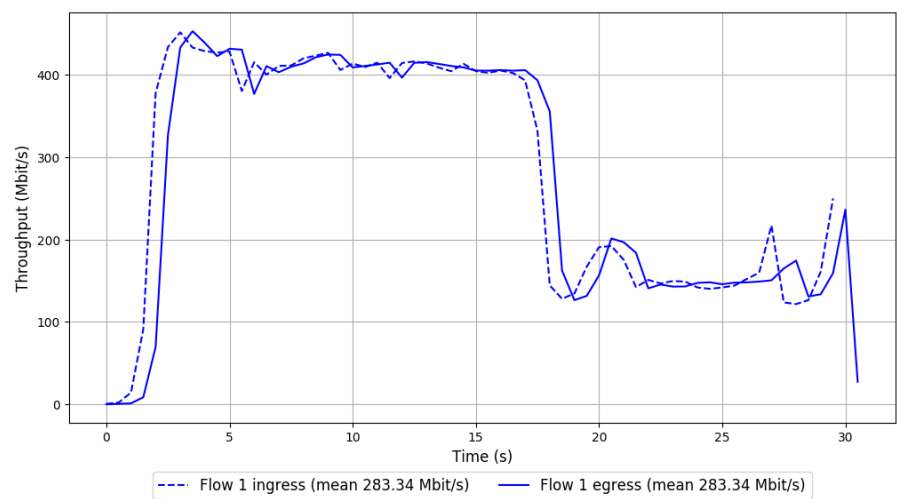
-- Flow 1:

Average throughput: 283.34 Mbit/s

95th percentile per-packet one-way delay: 99.497 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-27 07:45:25

End at: 2018-08-27 07:45:55

Local clock offset: 4.537 ms

Remote clock offset: 5.13 ms

Below is generated by plot.py at 2018-08-27 11:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.43 Mbit/s

95th percentile per-packet one-way delay: 93.746 ms

Loss rate: 0.00%

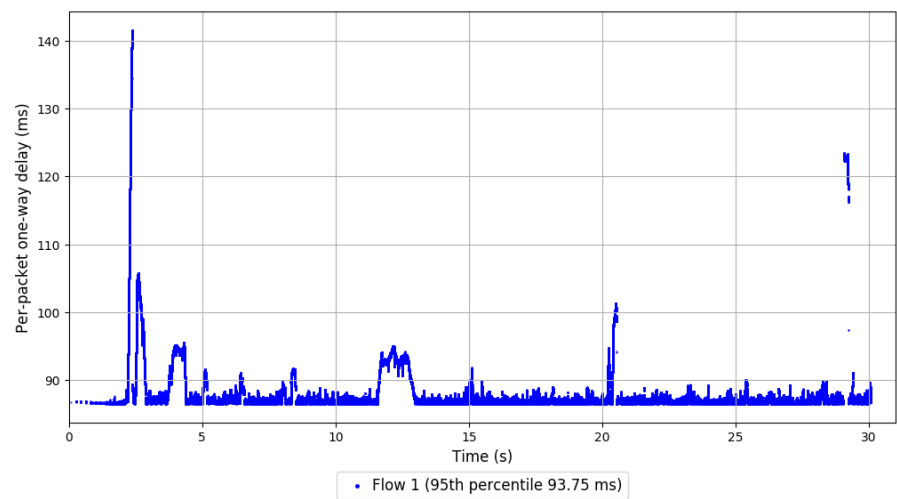
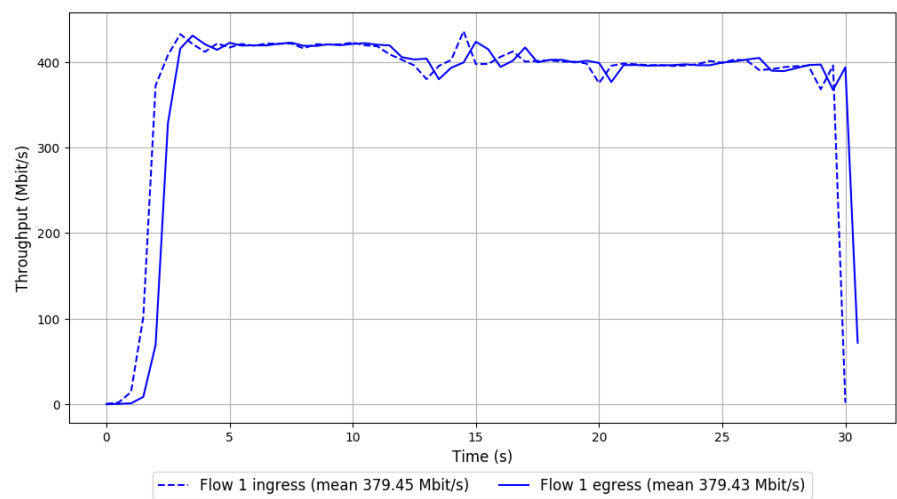
-- Flow 1:

Average throughput: 379.43 Mbit/s

95th percentile per-packet one-way delay: 93.746 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-08-27 08:09:49

End at: 2018-08-27 08:10:19

Local clock offset: 2.183 ms

Remote clock offset: 4.528 ms

Below is generated by plot.py at 2018-08-27 11:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 99.959 ms

Loss rate: 0.00%

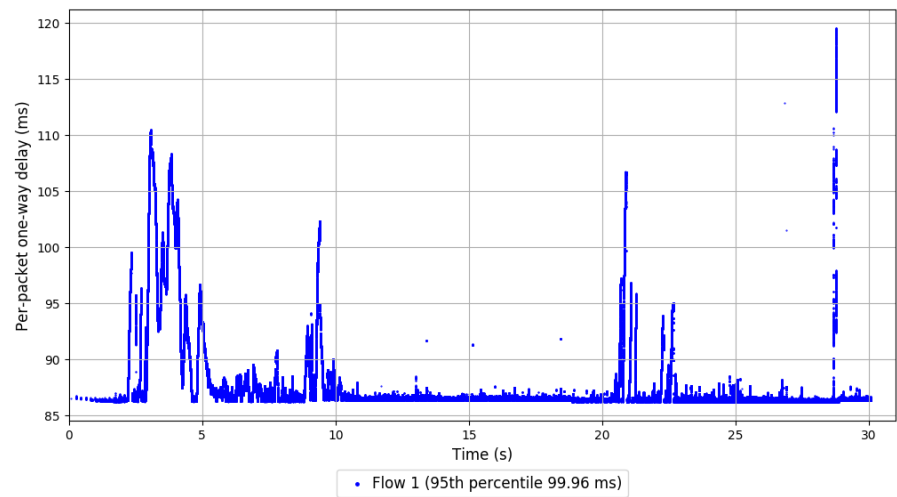
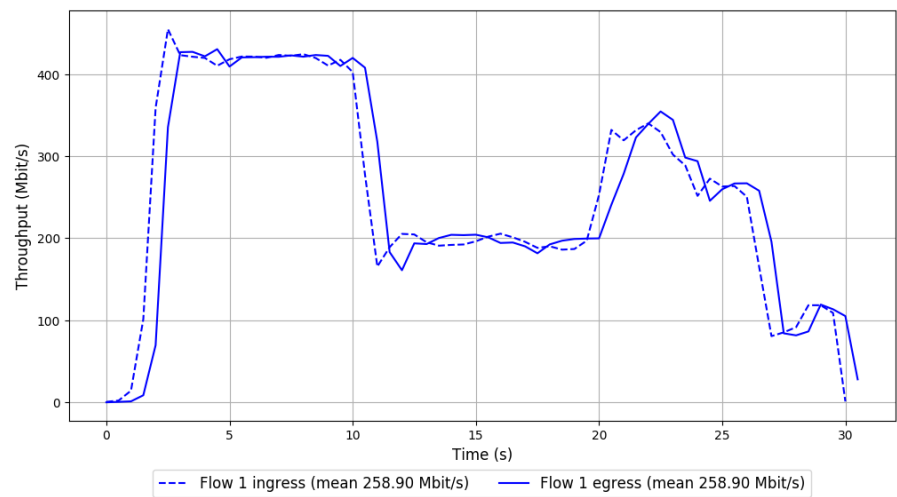
-- Flow 1:

Average throughput: 258.90 Mbit/s

95th percentile per-packet one-way delay: 99.959 ms

Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-27 08:33:55

End at: 2018-08-27 08:34:25

Local clock offset: 0.701 ms

Remote clock offset: 1.003 ms

Below is generated by plot.py at 2018-08-27 11:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.40 Mbit/s

95th percentile per-packet one-way delay: 114.770 ms

Loss rate: 0.00%

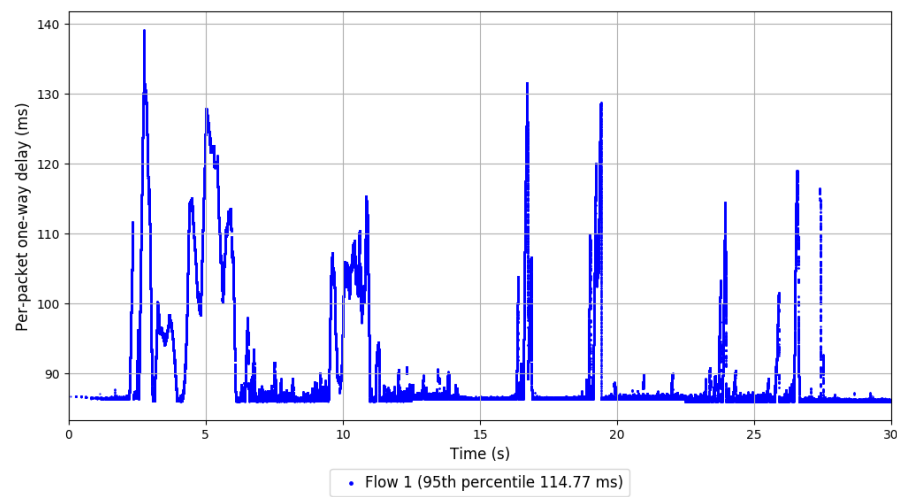
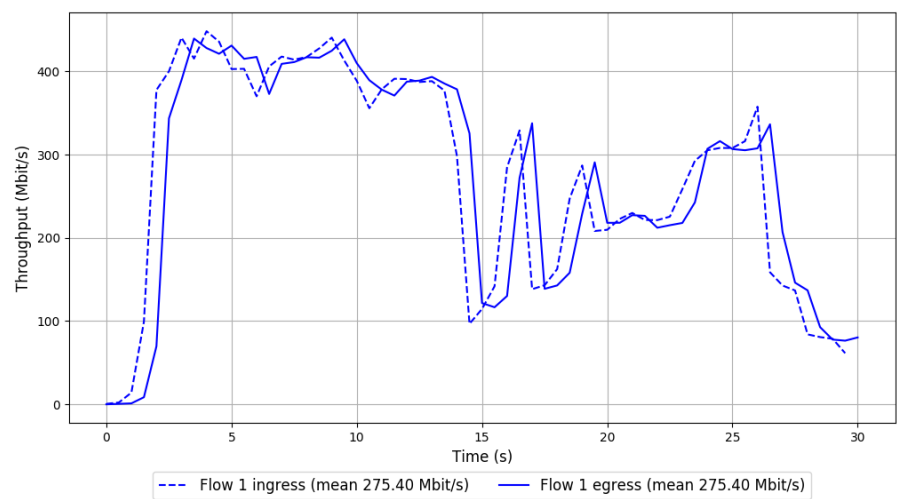
-- Flow 1:

Average throughput: 275.40 Mbit/s

95th percentile per-packet one-way delay: 114.770 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-08-27 08:58:22

End at: 2018-08-27 08:58:52

Local clock offset: 0.529 ms

Remote clock offset: 0.447 ms

Below is generated by plot.py at 2018-08-27 11:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.03 Mbit/s

95th percentile per-packet one-way delay: 99.319 ms

Loss rate: 0.00%

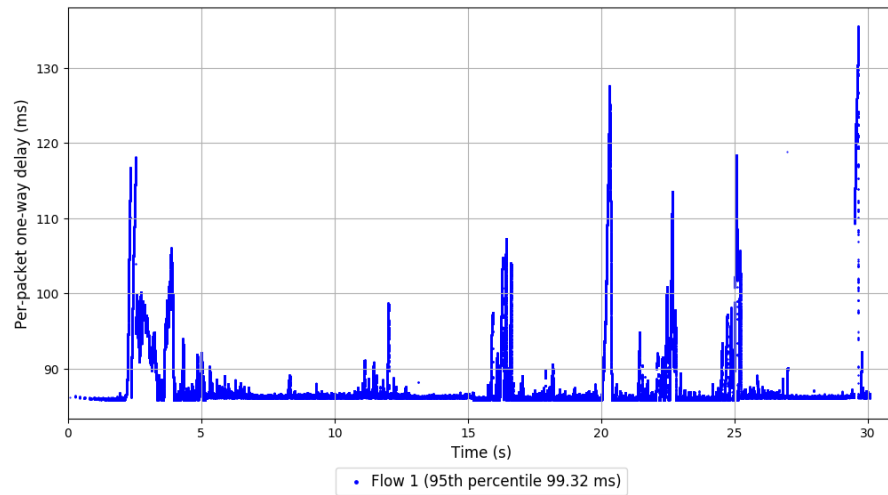
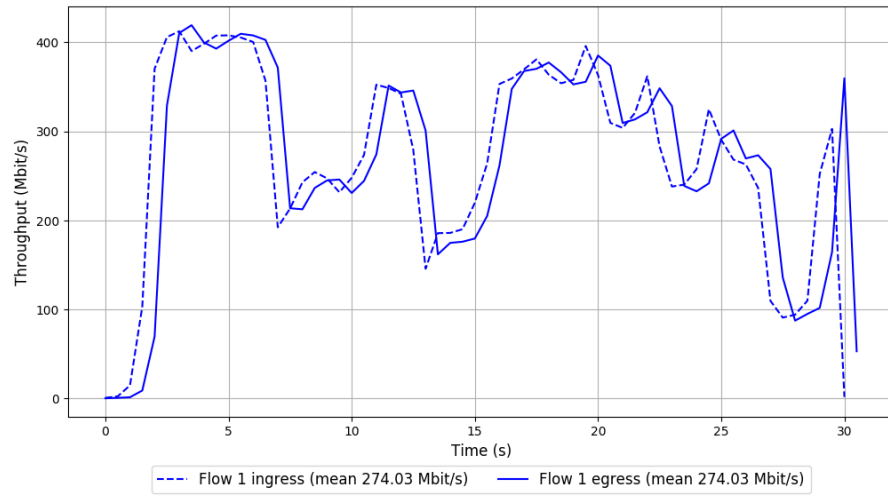
-- Flow 1:

Average throughput: 274.03 Mbit/s

95th percentile per-packet one-way delay: 99.319 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-08-27 09:22:50

End at: 2018-08-27 09:23:20

Local clock offset: 0.242 ms

Remote clock offset: 0.367 ms

Below is generated by plot.py at 2018-08-27 11:39:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 324.40 Mbit/s

95th percentile per-packet one-way delay: 110.235 ms

Loss rate: 0.00%

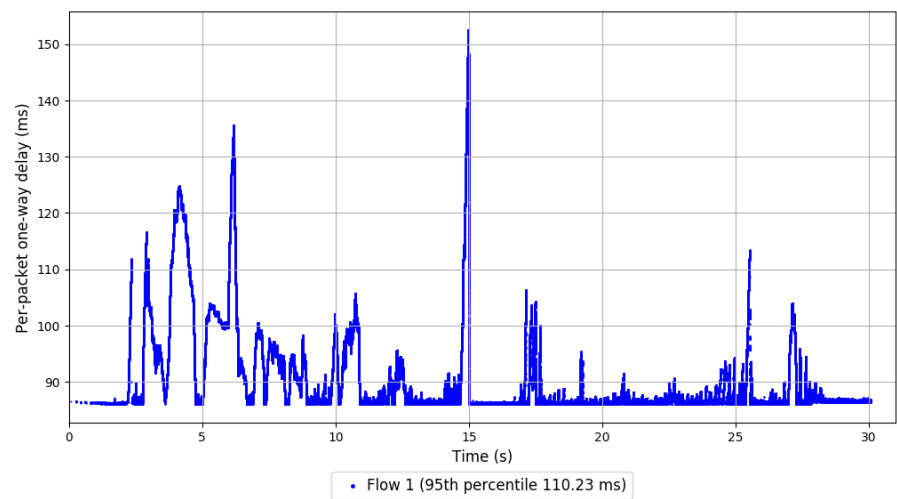
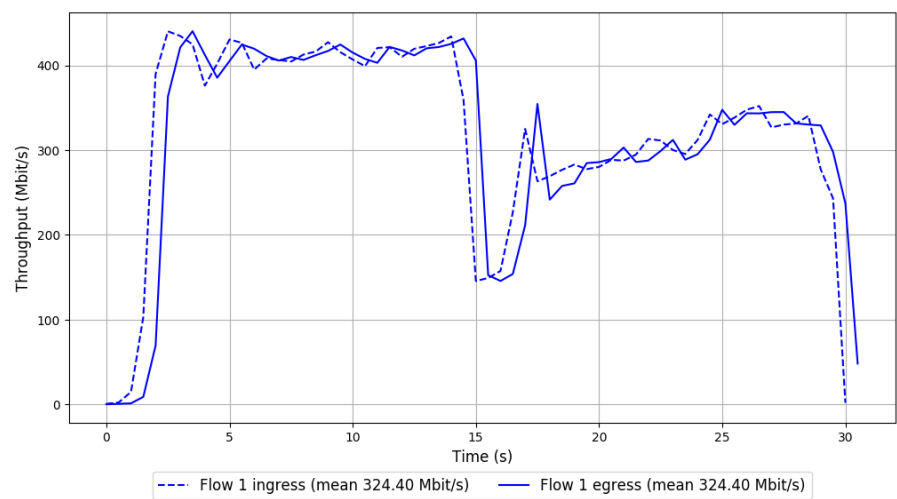
-- Flow 1:

Average throughput: 324.40 Mbit/s

95th percentile per-packet one-way delay: 110.235 ms

Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-08-27 09:47:09

End at: 2018-08-27 09:47:39

Local clock offset: 0.84 ms

Remote clock offset: 0.169 ms

Below is generated by plot.py at 2018-08-27 11:45:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.94 Mbit/s

95th percentile per-packet one-way delay: 101.562 ms

Loss rate: 0.00%

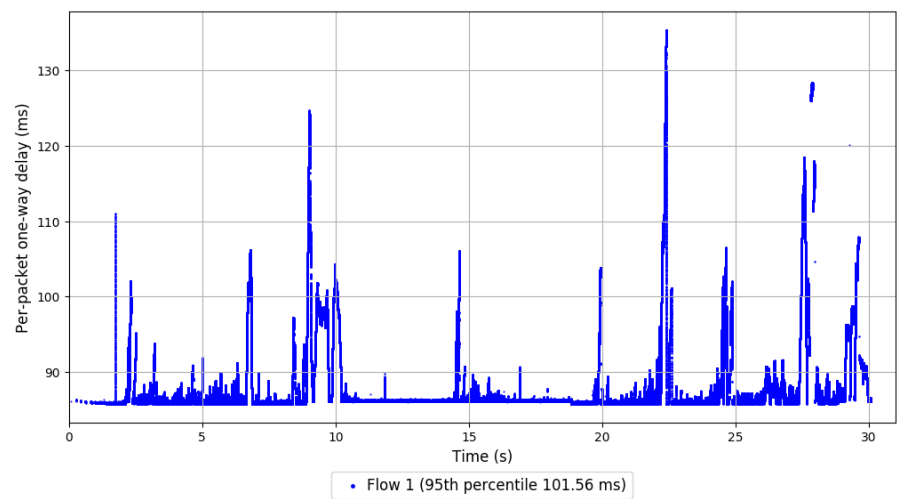
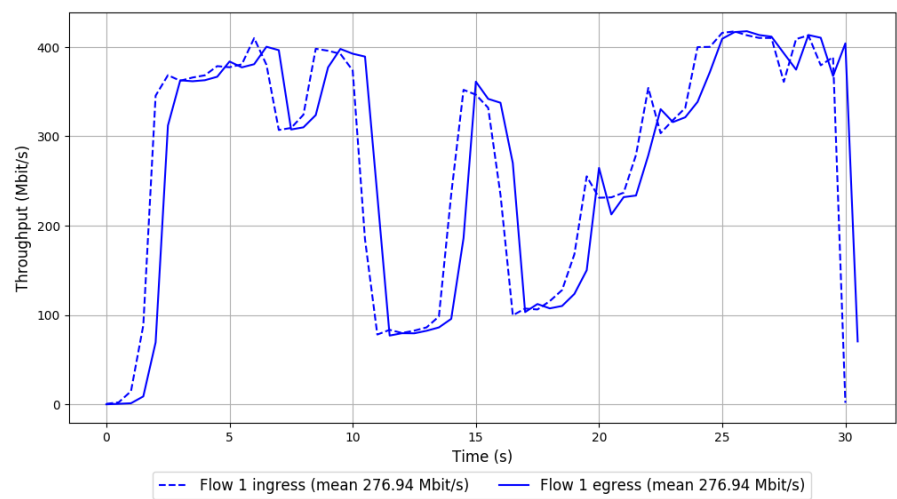
-- Flow 1:

Average throughput: 276.94 Mbit/s

95th percentile per-packet one-way delay: 101.562 ms

Loss rate: 0.00%

Run 7: Report of Copa — Data Link

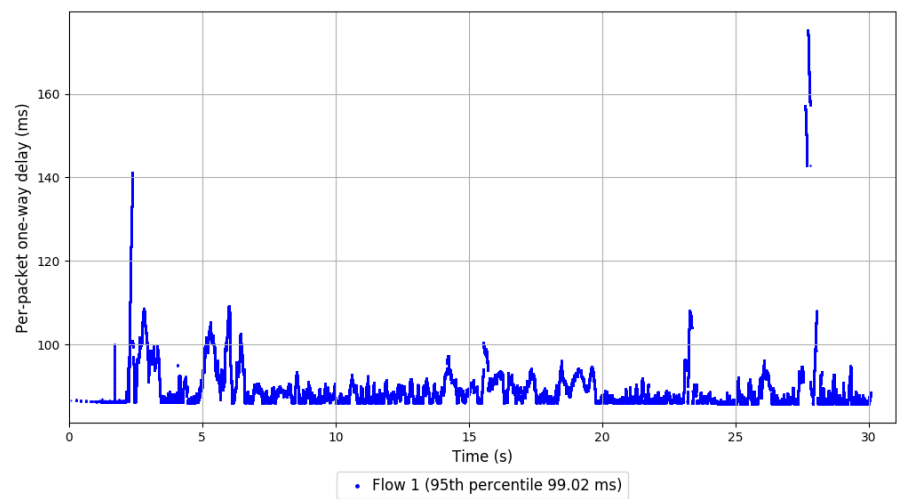
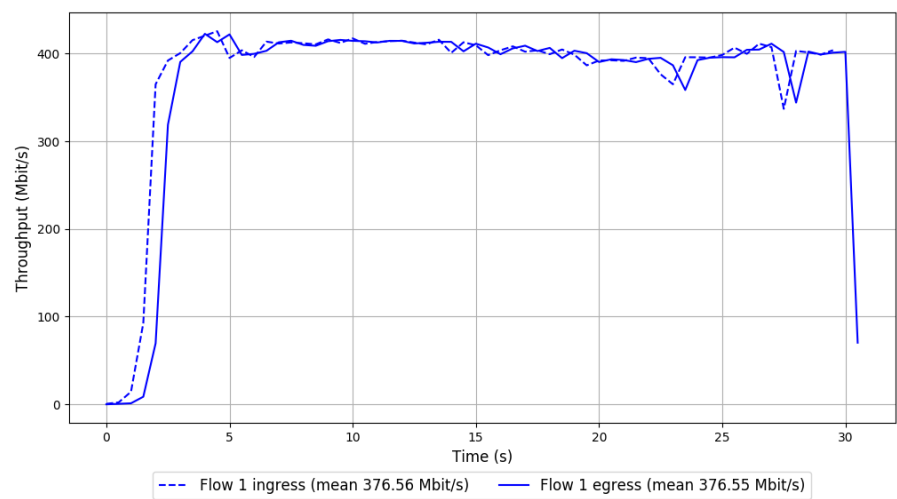


Run 8: Statistics of Copa

Start at: 2018-08-27 10:11:23
End at: 2018-08-27 10:11:53
Local clock offset: 0.155 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-08-27 11:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 376.55 Mbit/s
95th percentile per-packet one-way delay: 99.017 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 376.55 Mbit/s
95th percentile per-packet one-way delay: 99.017 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

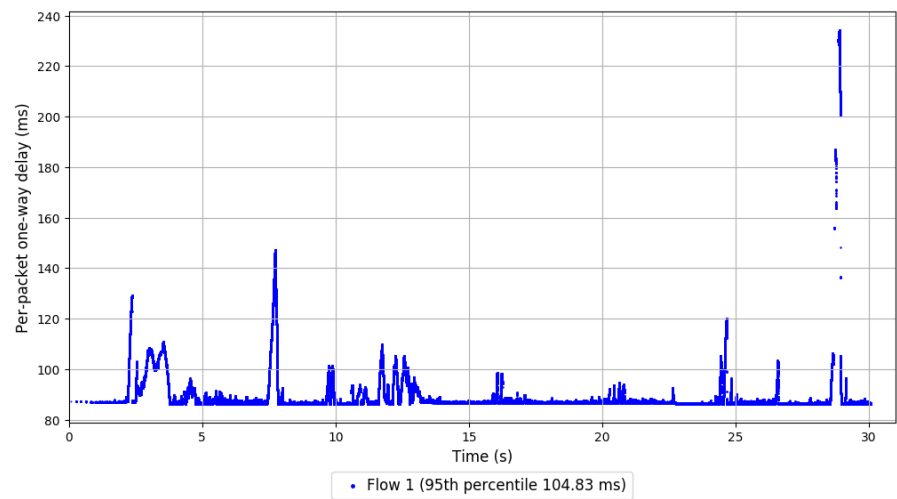
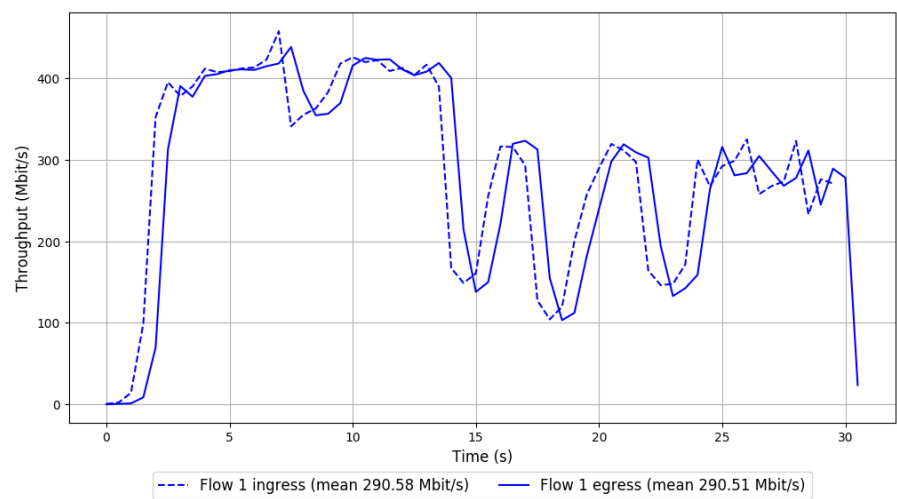


Run 9: Statistics of Copa

Start at: 2018-08-27 10:35:55
End at: 2018-08-27 10:36:25
Local clock offset: -0.358 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-08-27 11:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 290.51 Mbit/s
95th percentile per-packet one-way delay: 104.834 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 290.51 Mbit/s
95th percentile per-packet one-way delay: 104.834 ms
Loss rate: 0.03%

Run 9: Report of Copa — Data Link

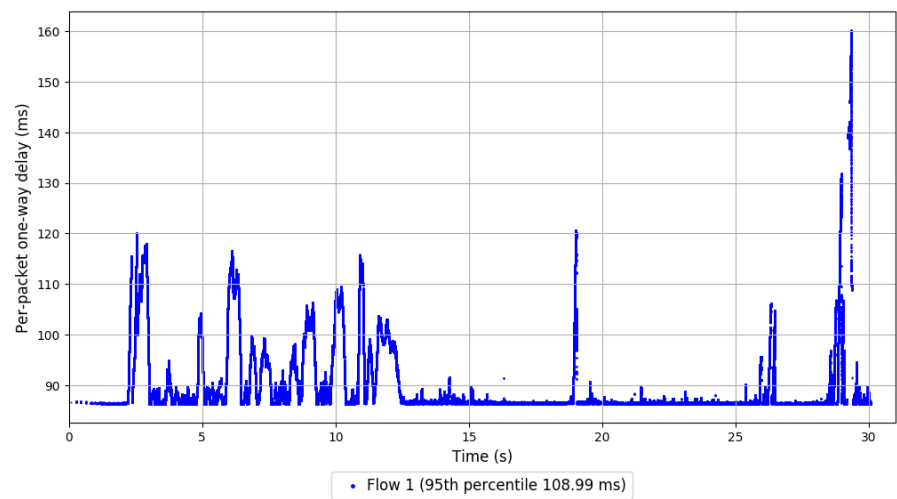
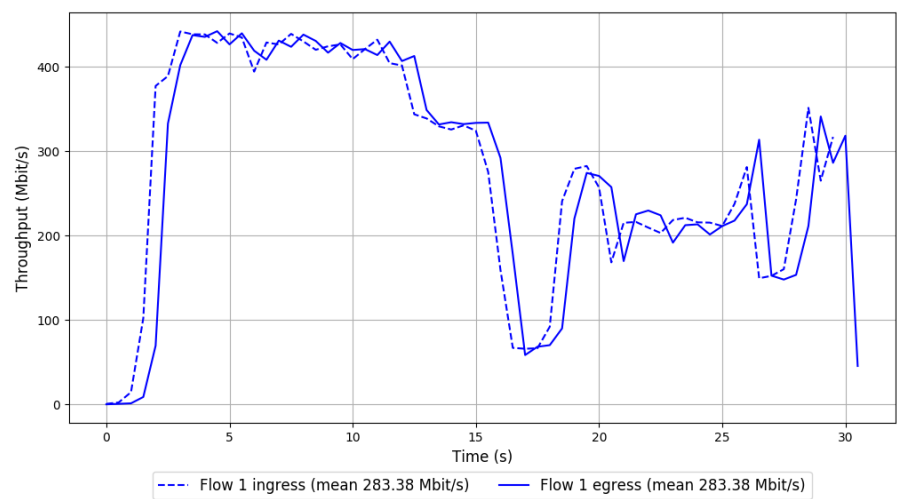


Run 10: Statistics of Copa

Start at: 2018-08-27 11:00:27
End at: 2018-08-27 11:00:57
Local clock offset: -0.138 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-08-27 11:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.38 Mbit/s
95th percentile per-packet one-way delay: 108.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 283.38 Mbit/s
95th percentile per-packet one-way delay: 108.988 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

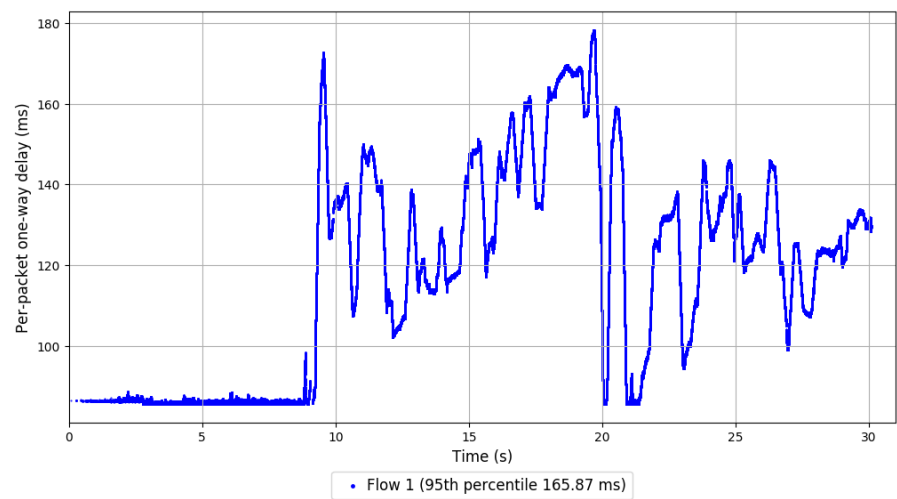
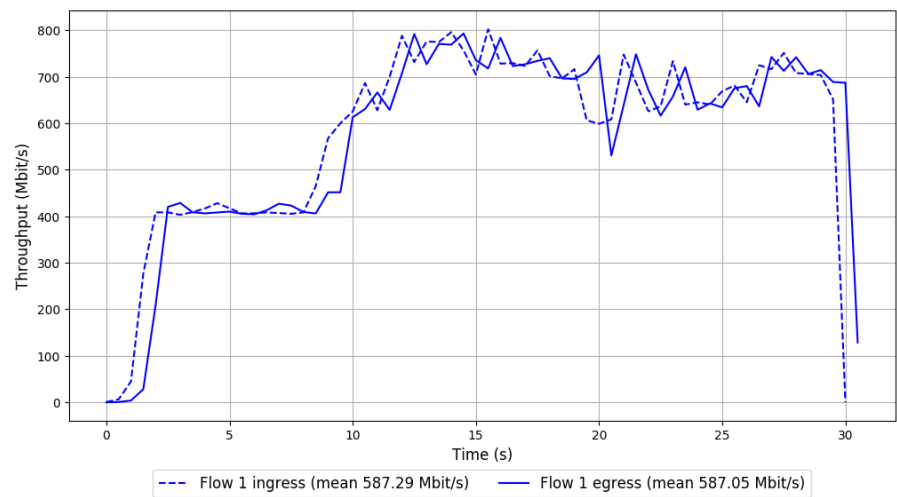


Run 1: Statistics of TCP Cubic

Start at: 2018-08-27 07:03:55
End at: 2018-08-27 07:04:25
Local clock offset: 20.396 ms
Remote clock offset: 20.356 ms

Below is generated by plot.py at 2018-08-27 11:48:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 587.05 Mbit/s
95th percentile per-packet one-way delay: 165.874 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 587.05 Mbit/s
95th percentile per-packet one-way delay: 165.874 ms
Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-08-27 07:28:02

End at: 2018-08-27 07:28:32

Local clock offset: 8.033 ms

Remote clock offset: 8.084 ms

Below is generated by plot.py at 2018-08-27 11:48:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 537.78 Mbit/s

95th percentile per-packet one-way delay: 90.069 ms

Loss rate: 0.00%

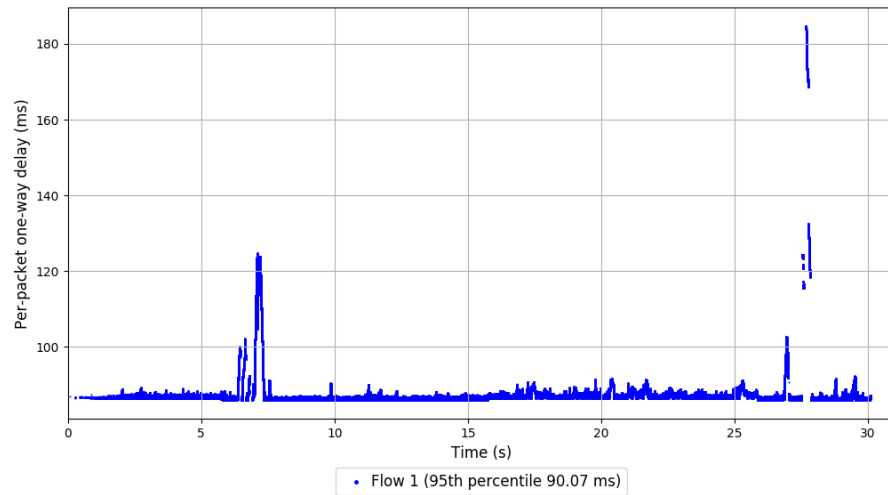
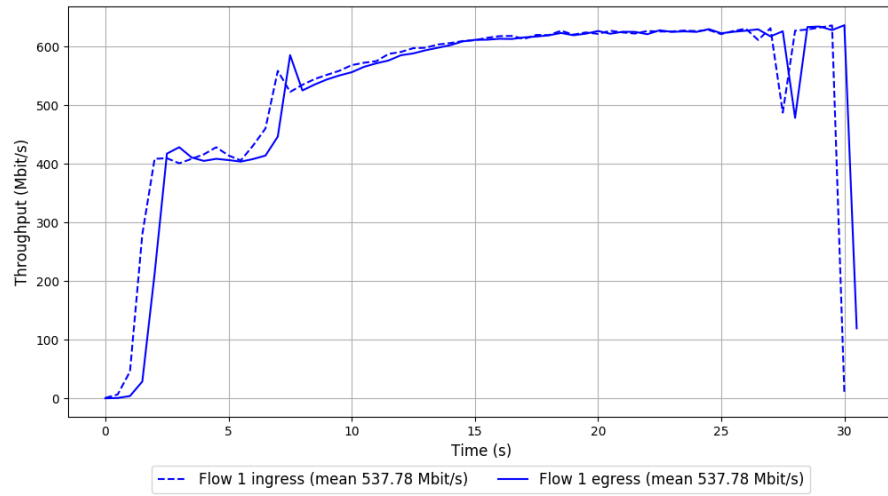
-- Flow 1:

Average throughput: 537.78 Mbit/s

95th percentile per-packet one-way delay: 90.069 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-27 07:52:36

End at: 2018-08-27 07:53:06

Local clock offset: 2.672 ms

Remote clock offset: 3.753 ms

Below is generated by plot.py at 2018-08-27 11:49:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 579.26 Mbit/s

95th percentile per-packet one-way delay: 97.566 ms

Loss rate: 0.00%

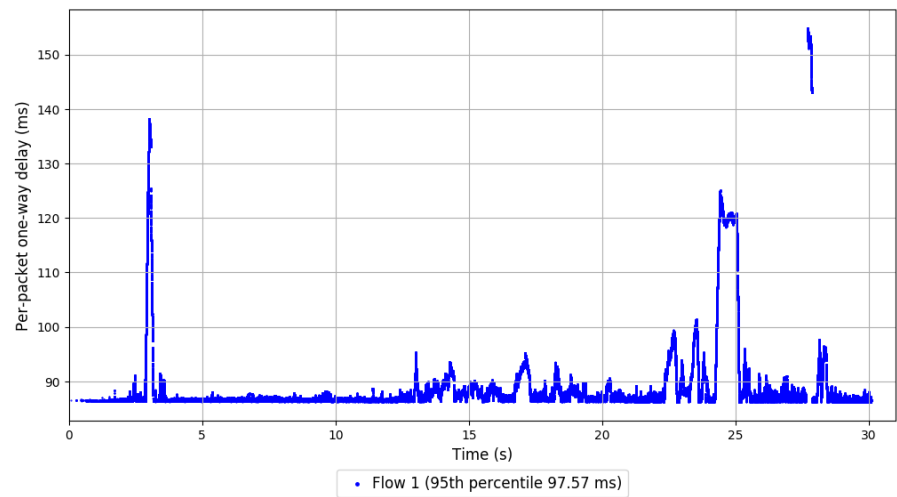
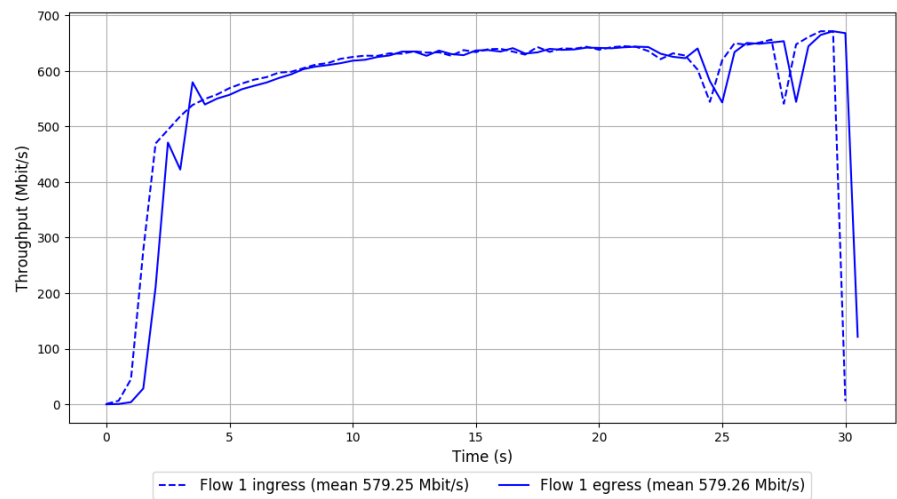
-- Flow 1:

Average throughput: 579.26 Mbit/s

95th percentile per-packet one-way delay: 97.566 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-08-27 08:16:50

End at: 2018-08-27 08:17:20

Local clock offset: 1.366 ms

Remote clock offset: 2.807 ms

Below is generated by plot.py at 2018-08-27 11:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 555.72 Mbit/s

95th percentile per-packet one-way delay: 91.221 ms

Loss rate: 0.02%

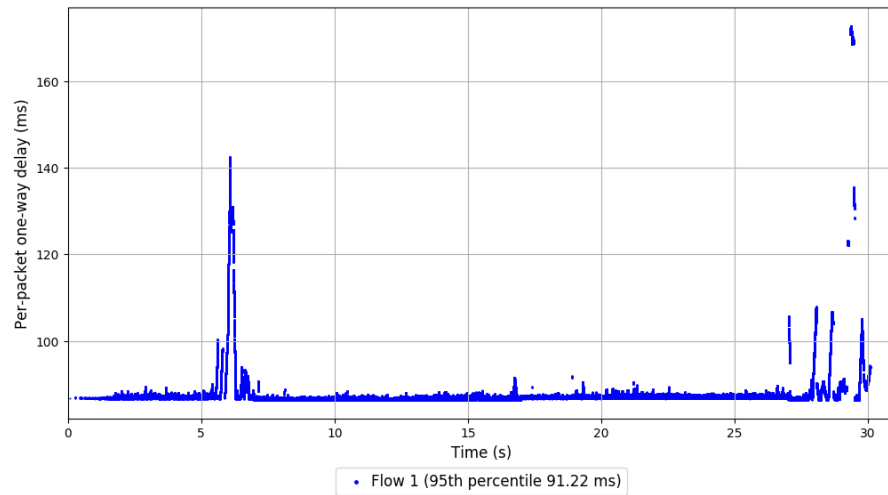
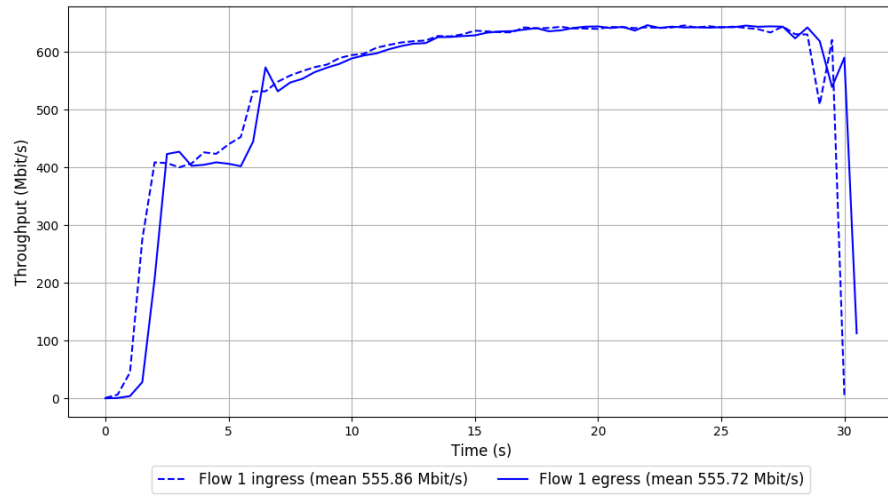
-- Flow 1:

Average throughput: 555.72 Mbit/s

95th percentile per-packet one-way delay: 91.221 ms

Loss rate: 0.02%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-27 08:40:55

End at: 2018-08-27 08:41:25

Local clock offset: 0.707 ms

Remote clock offset: 0.957 ms

Below is generated by plot.py at 2018-08-27 11:55:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.42 Mbit/s

95th percentile per-packet one-way delay: 164.403 ms

Loss rate: 0.22%

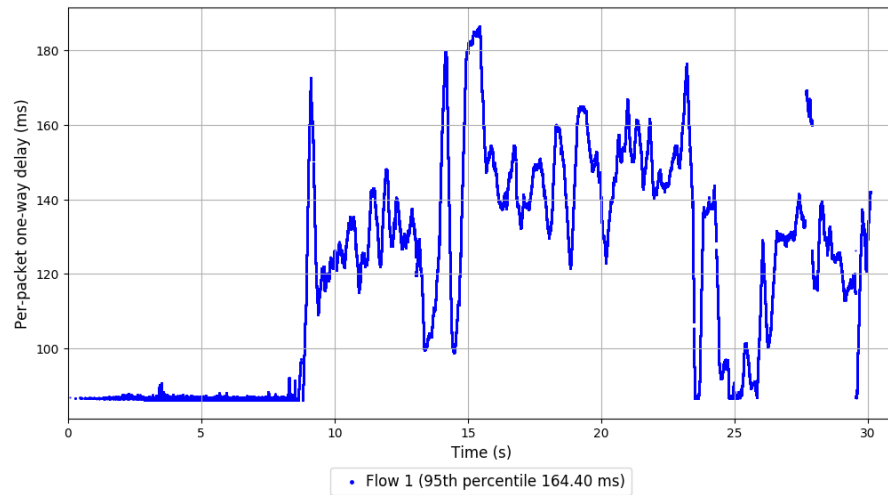
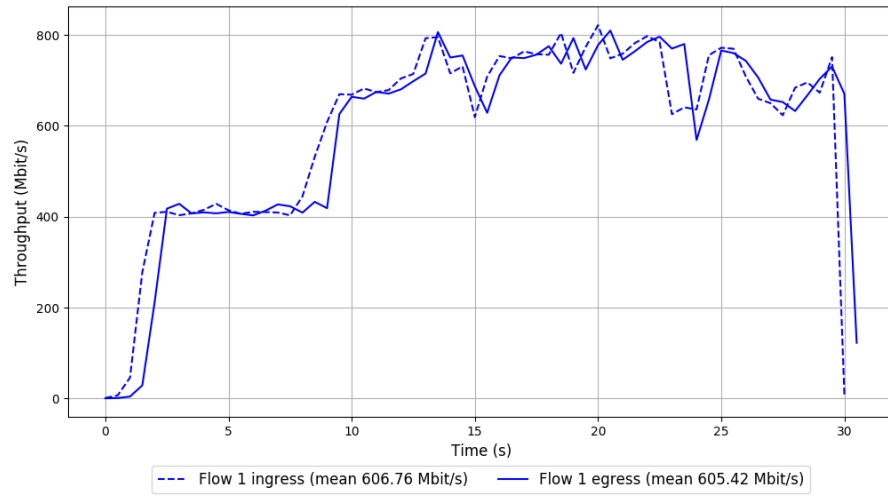
-- Flow 1:

Average throughput: 605.42 Mbit/s

95th percentile per-packet one-way delay: 164.403 ms

Loss rate: 0.22%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-08-27 09:05:27

End at: 2018-08-27 09:05:57

Local clock offset: 0.409 ms

Remote clock offset: 0.396 ms

Below is generated by plot.py at 2018-08-27 11:55:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 536.06 Mbit/s

95th percentile per-packet one-way delay: 135.283 ms

Loss rate: 0.22%

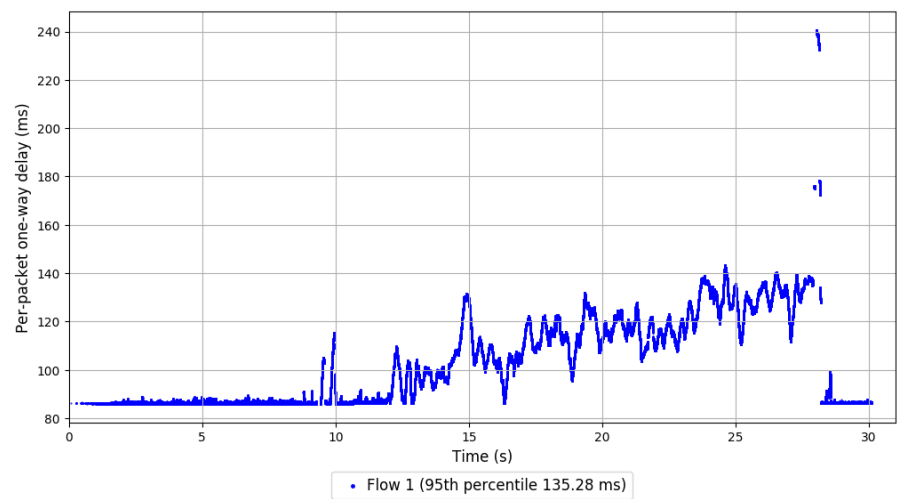
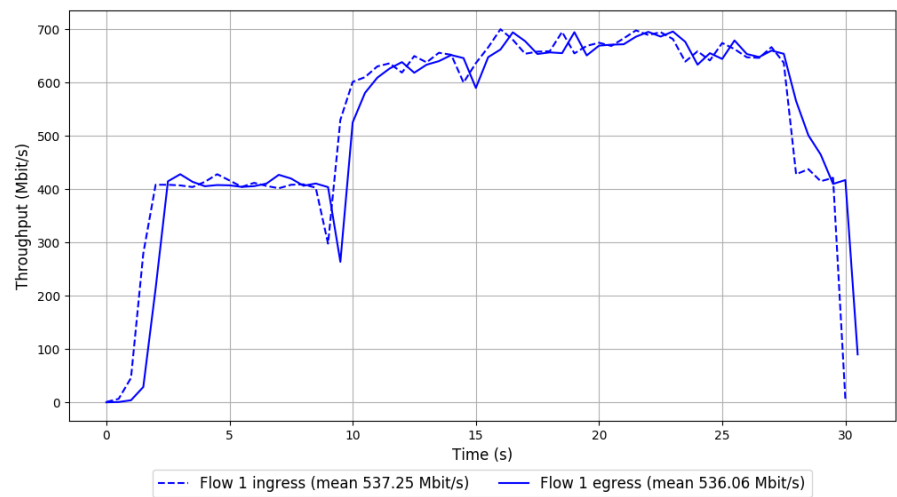
-- Flow 1:

Average throughput: 536.06 Mbit/s

95th percentile per-packet one-way delay: 135.283 ms

Loss rate: 0.22%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-08-27 09:29:53

End at: 2018-08-27 09:30:23

Local clock offset: 0.553 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-08-27 11:55:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 546.88 Mbit/s

95th percentile per-packet one-way delay: 99.950 ms

Loss rate: 0.00%

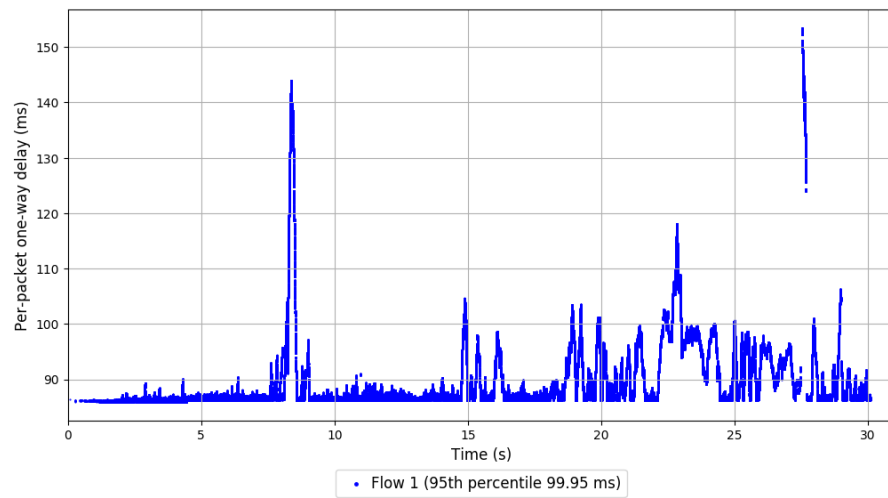
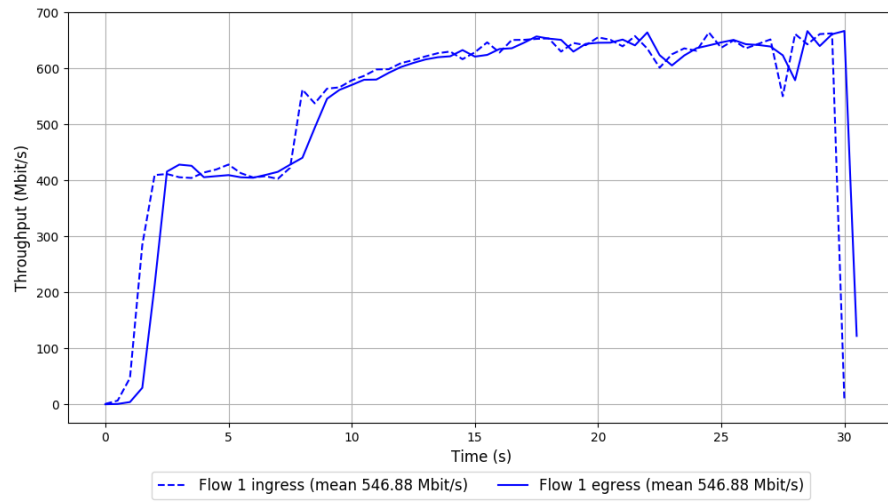
-- Flow 1:

Average throughput: 546.88 Mbit/s

95th percentile per-packet one-way delay: 99.950 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-08-27 09:54:14

End at: 2018-08-27 09:54:44

Local clock offset: 0.774 ms

Remote clock offset: 0.232 ms

Below is generated by plot.py at 2018-08-27 11:56:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 605.77 Mbit/s

95th percentile per-packet one-way delay: 166.480 ms

Loss rate: 0.06%

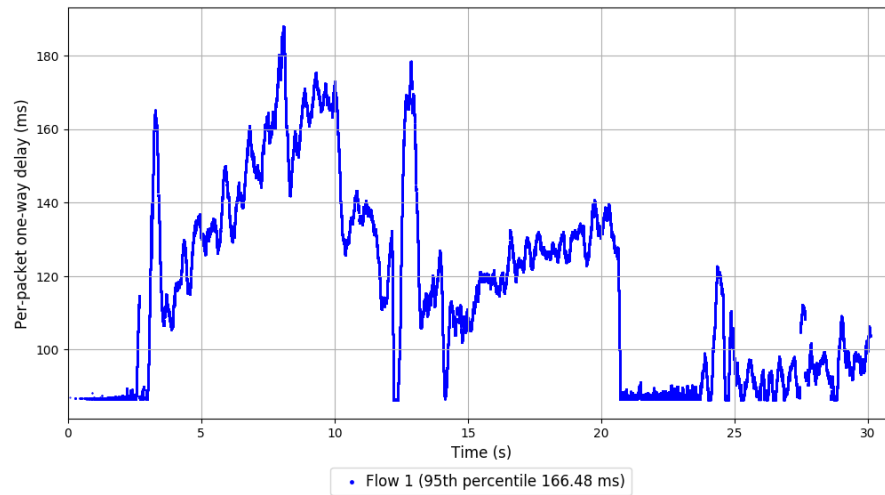
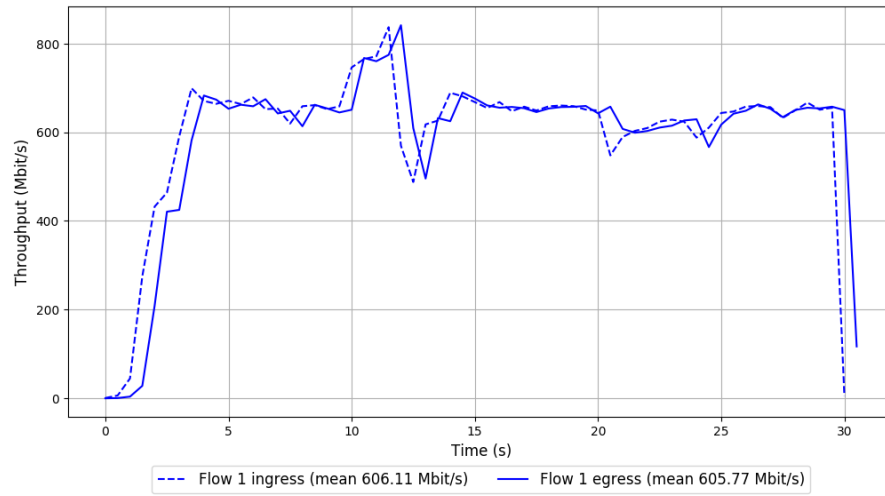
-- Flow 1:

Average throughput: 605.77 Mbit/s

95th percentile per-packet one-way delay: 166.480 ms

Loss rate: 0.06%

Run 8: Report of TCP Cubic — Data Link

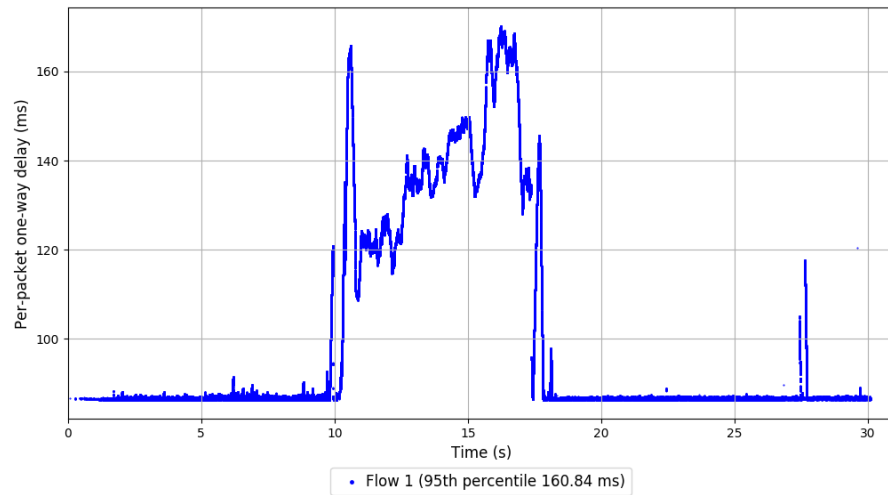
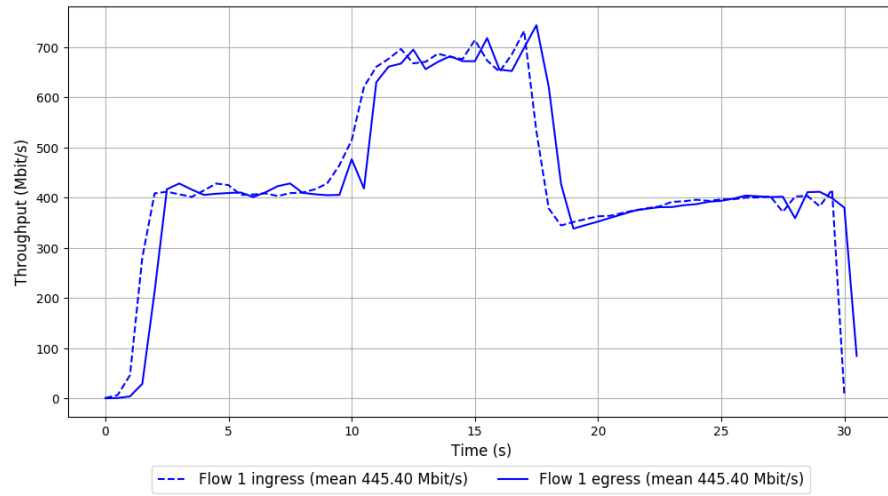


Run 9: Statistics of TCP Cubic

Start at: 2018-08-27 10:18:41
End at: 2018-08-27 10:19:11
Local clock offset: -0.112 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-08-27 11:56:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 445.40 Mbit/s
95th percentile per-packet one-way delay: 160.843 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 445.40 Mbit/s
95th percentile per-packet one-way delay: 160.843 ms
Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link

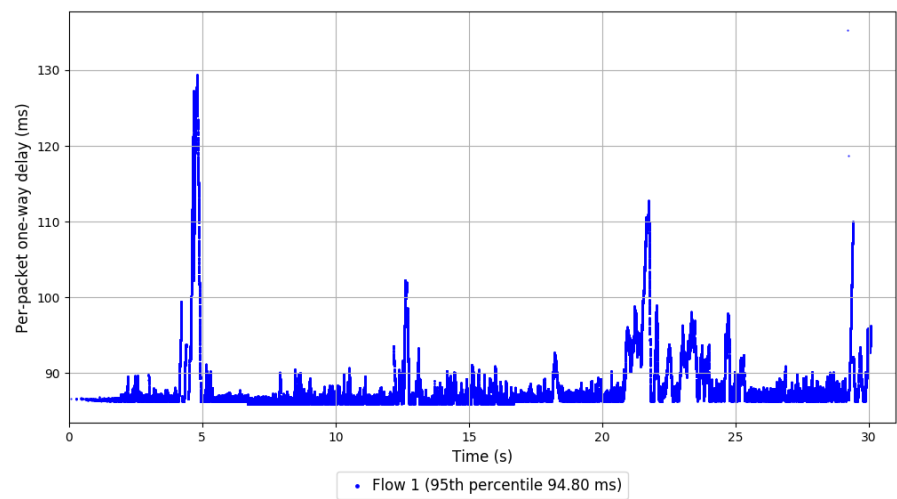
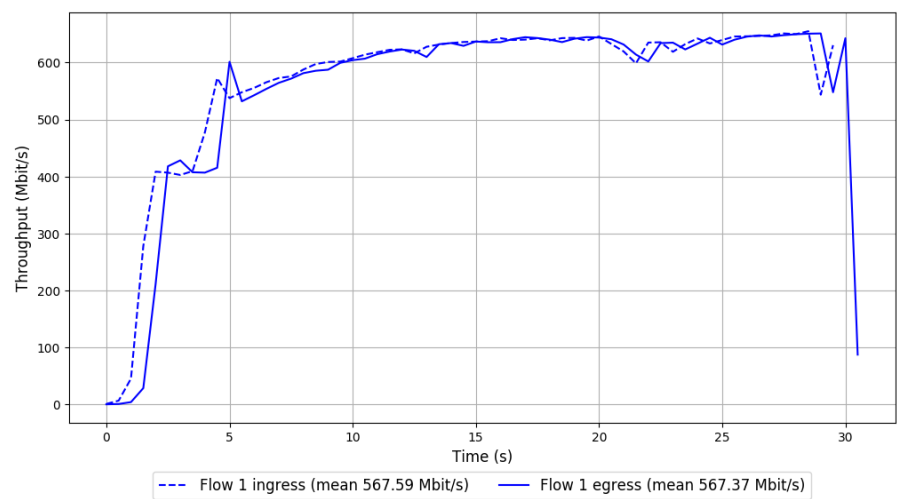


Run 10: Statistics of TCP Cubic

Start at: 2018-08-27 10:43:01
End at: 2018-08-27 10:43:31
Local clock offset: -0.098 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-08-27 11:57:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 567.37 Mbit/s
95th percentile per-packet one-way delay: 94.803 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 567.37 Mbit/s
95th percentile per-packet one-way delay: 94.803 ms
Loss rate: 0.04%

Run 10: Report of TCP Cubic — Data Link

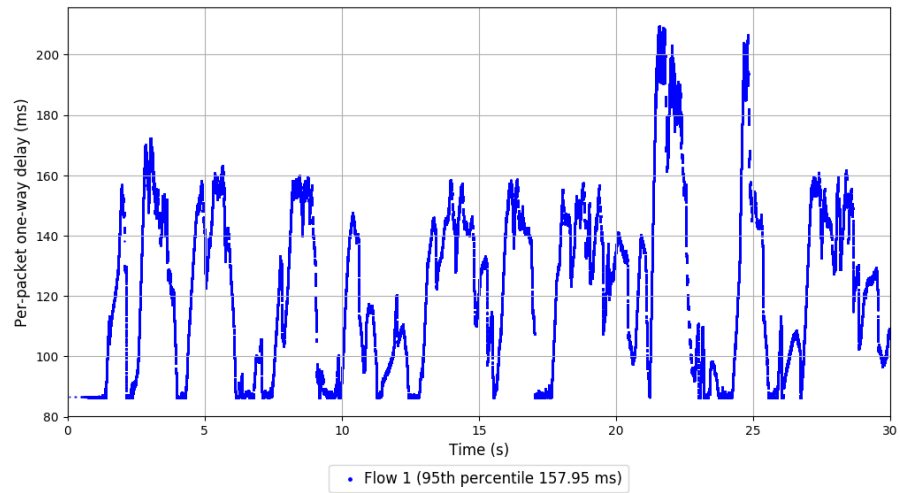
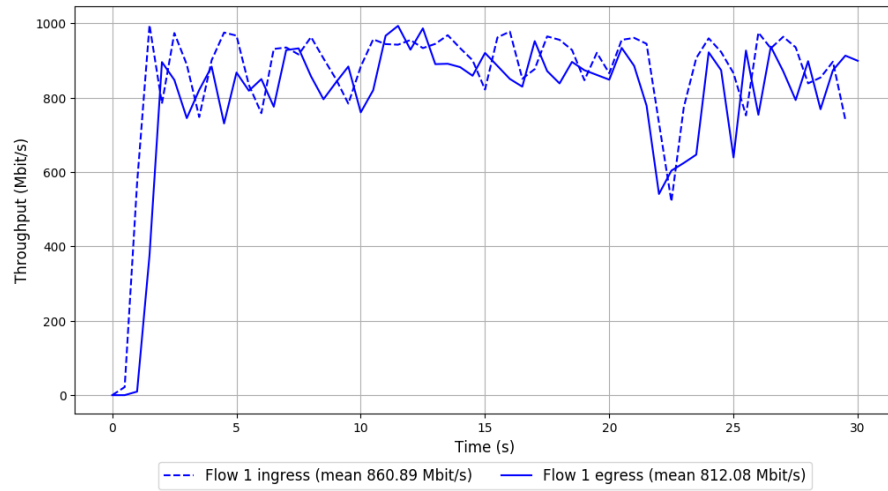


Run 1: Statistics of FillP

Start at: 2018-08-27 06:58:26
End at: 2018-08-27 06:58:56
Local clock offset: 17.884 ms
Remote clock offset: 18.332 ms

Below is generated by plot.py at 2018-08-27 12:04:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 812.08 Mbit/s
95th percentile per-packet one-way delay: 157.953 ms
Loss rate: 5.67%
-- Flow 1:
Average throughput: 812.08 Mbit/s
95th percentile per-packet one-way delay: 157.953 ms
Loss rate: 5.67%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-08-27 07:22:33

End at: 2018-08-27 07:23:03

Local clock offset: 7.247 ms

Remote clock offset: 7.618 ms

Below is generated by plot.py at 2018-08-27 12:04:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.61 Mbit/s

95th percentile per-packet one-way delay: 158.600 ms

Loss rate: 4.76%

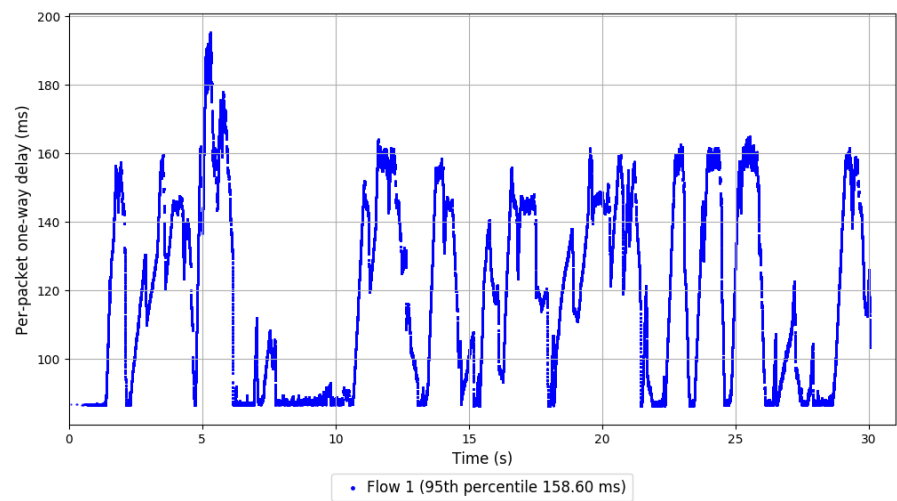
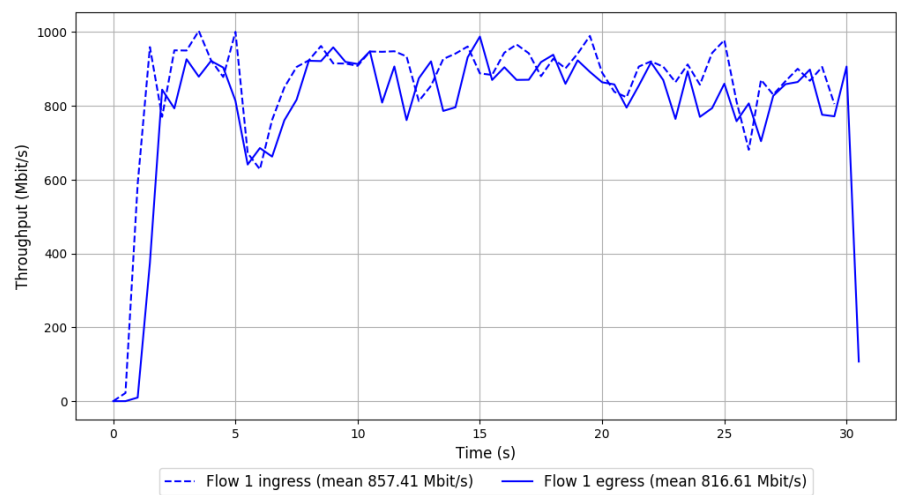
-- Flow 1:

Average throughput: 816.61 Mbit/s

95th percentile per-packet one-way delay: 158.600 ms

Loss rate: 4.76%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-08-27 07:47:05

End at: 2018-08-27 07:47:35

Local clock offset: 3.988 ms

Remote clock offset: 4.579 ms

Below is generated by plot.py at 2018-08-27 12:12:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 809.06 Mbit/s

95th percentile per-packet one-way delay: 156.852 ms

Loss rate: 4.76%

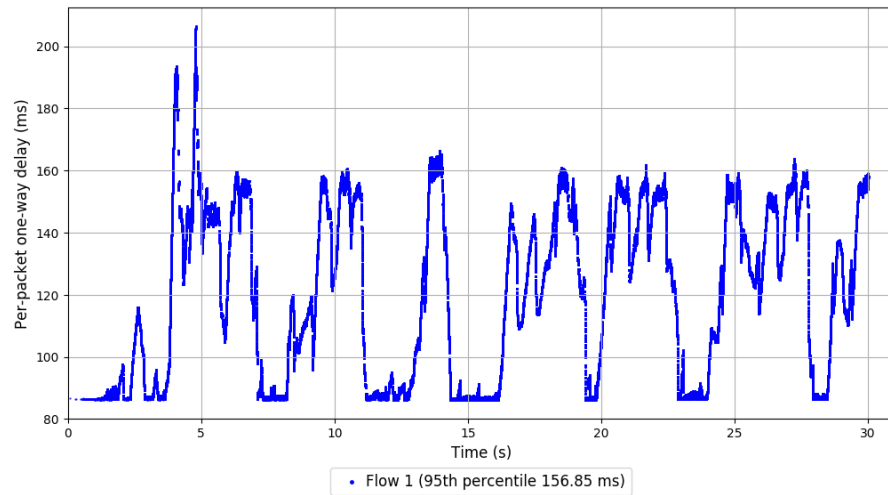
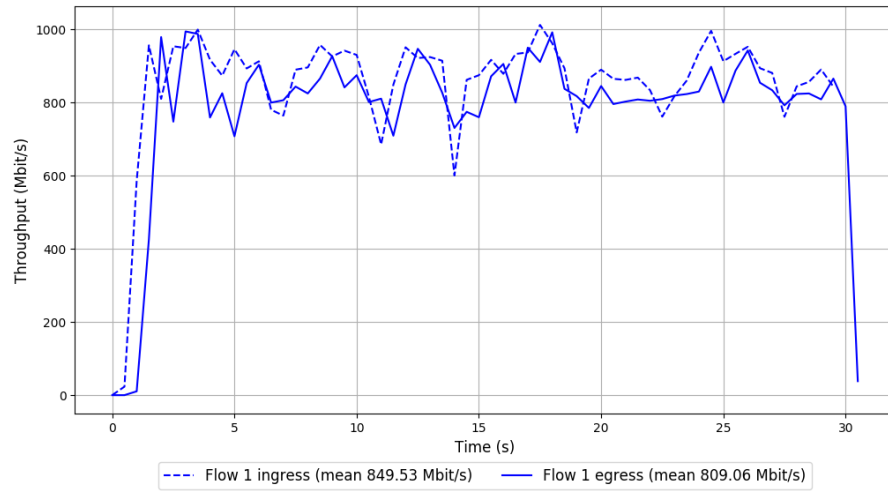
-- Flow 1:

Average throughput: 809.06 Mbit/s

95th percentile per-packet one-way delay: 156.852 ms

Loss rate: 4.76%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-08-27 08:11:18

End at: 2018-08-27 08:11:48

Local clock offset: 2.35 ms

Remote clock offset: 4.638 ms

Below is generated by plot.py at 2018-08-27 12:12:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.25 Mbit/s

95th percentile per-packet one-way delay: 157.039 ms

Loss rate: 5.01%

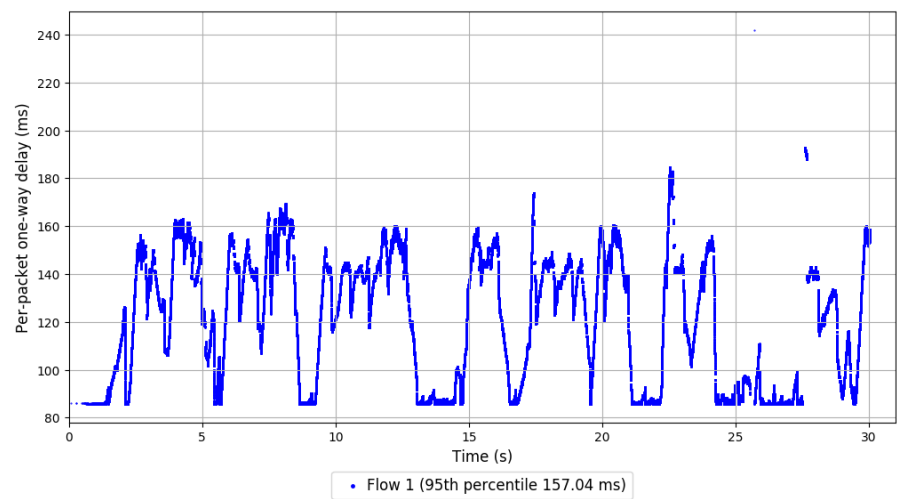
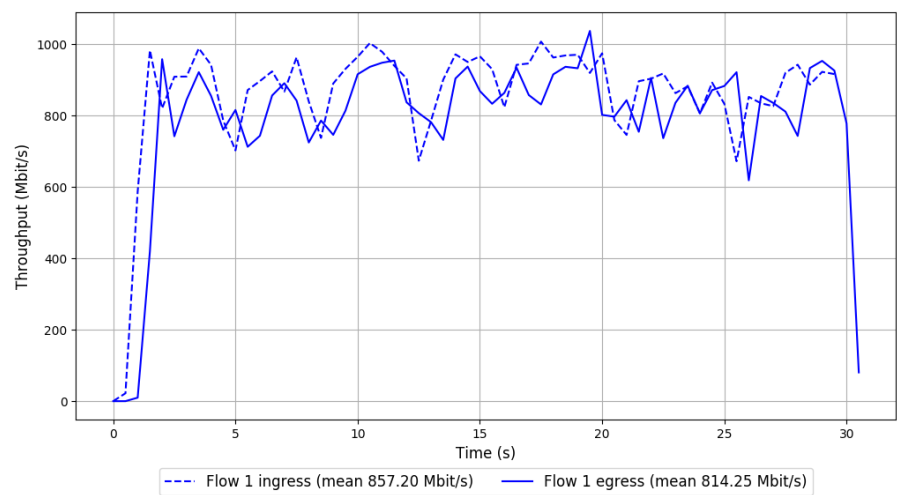
-- Flow 1:

Average throughput: 814.25 Mbit/s

95th percentile per-packet one-way delay: 157.039 ms

Loss rate: 5.01%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-27 08:35:26

End at: 2018-08-27 08:35:56

Local clock offset: 0.946 ms

Remote clock offset: 0.968 ms

Below is generated by plot.py at 2018-08-27 12:12:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 810.93 Mbit/s

95th percentile per-packet one-way delay: 157.776 ms

Loss rate: 4.75%

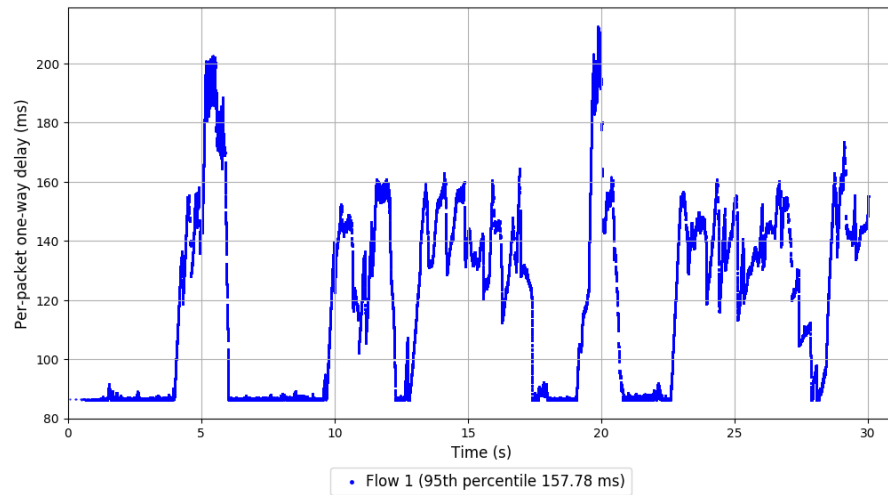
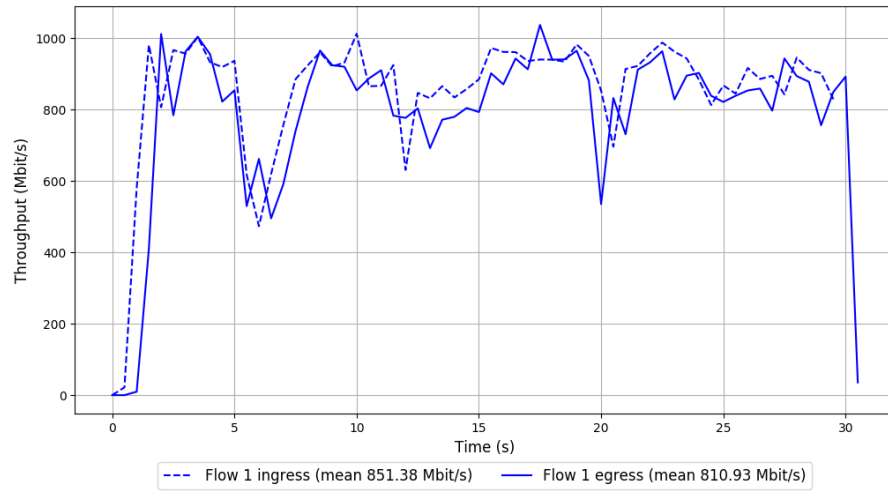
-- Flow 1:

Average throughput: 810.93 Mbit/s

95th percentile per-packet one-way delay: 157.776 ms

Loss rate: 4.75%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-27 08:59:54

End at: 2018-08-27 09:00:24

Local clock offset: 0.337 ms

Remote clock offset: 0.419 ms

Below is generated by plot.py at 2018-08-27 12:12:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 789.70 Mbit/s

95th percentile per-packet one-way delay: 162.988 ms

Loss rate: 7.04%

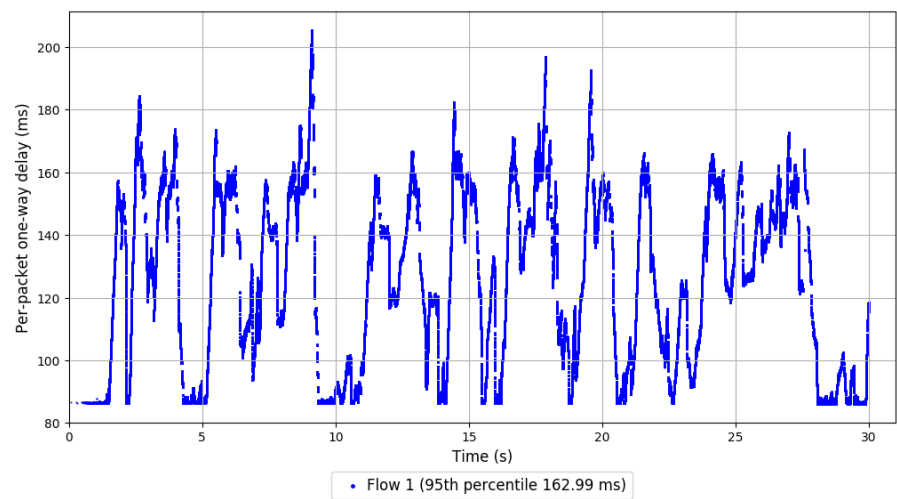
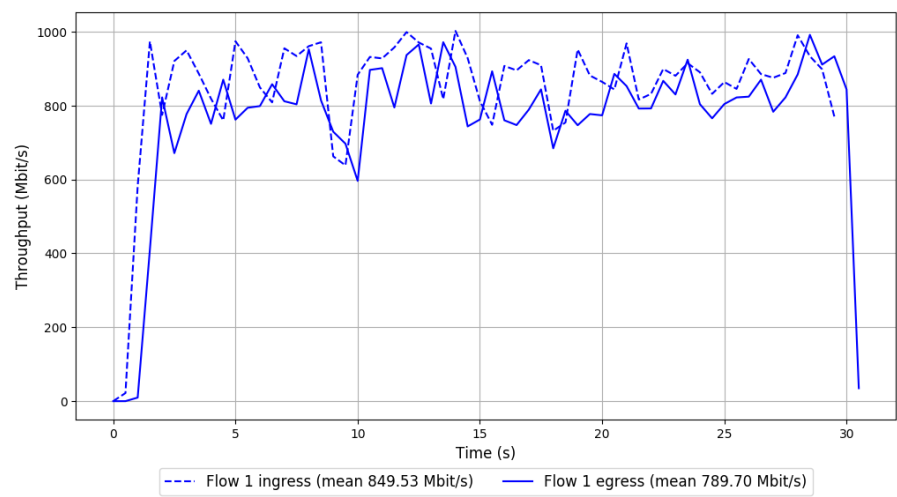
-- Flow 1:

Average throughput: 789.70 Mbit/s

95th percentile per-packet one-way delay: 162.988 ms

Loss rate: 7.04%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-08-27 09:24:25

End at: 2018-08-27 09:24:55

Local clock offset: 0.281 ms

Remote clock offset: 0.49 ms

Below is generated by plot.py at 2018-08-27 12:14:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 841.92 Mbit/s

95th percentile per-packet one-way delay: 158.143 ms

Loss rate: 3.37%

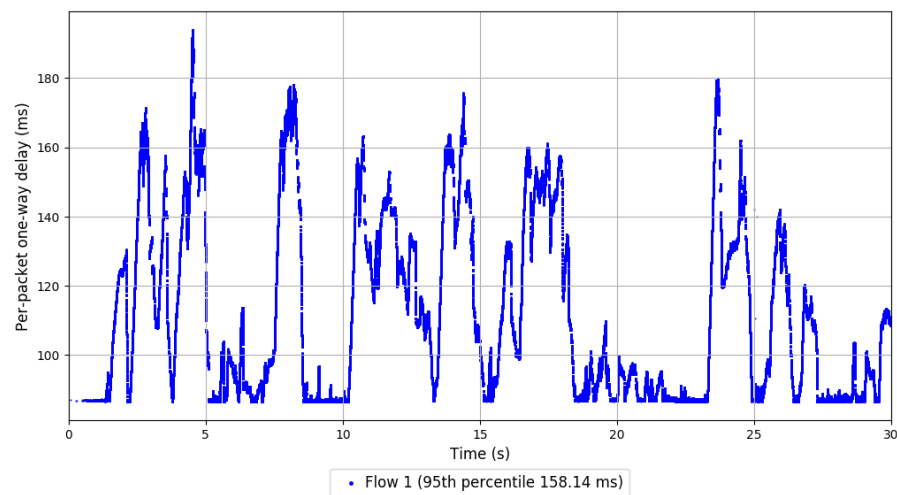
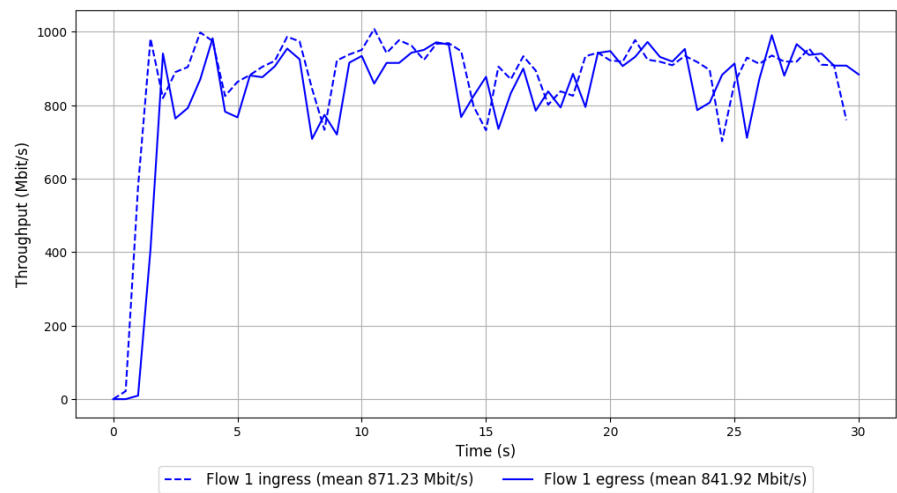
-- Flow 1:

Average throughput: 841.92 Mbit/s

95th percentile per-packet one-way delay: 158.143 ms

Loss rate: 3.37%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-08-27 09:48:40

End at: 2018-08-27 09:49:10

Local clock offset: 0.658 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-08-27 12:16:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 897.22 Mbit/s

95th percentile per-packet one-way delay: 141.207 ms

Loss rate: 0.81%

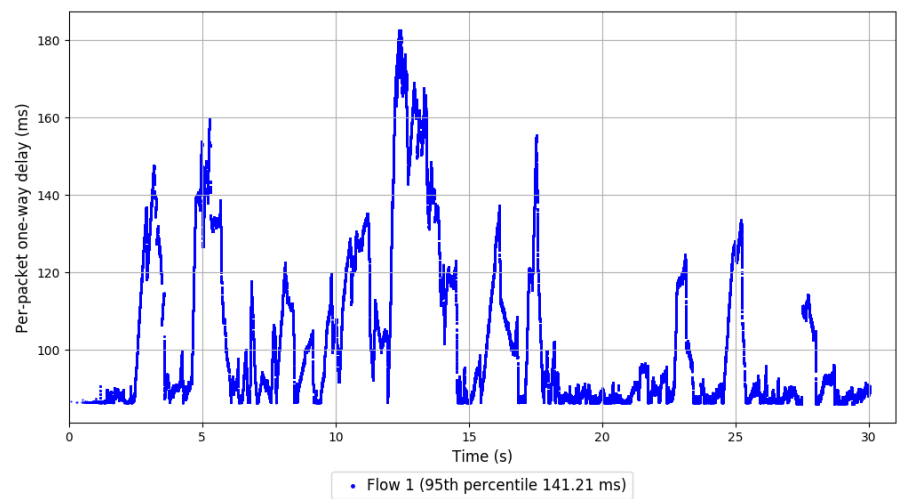
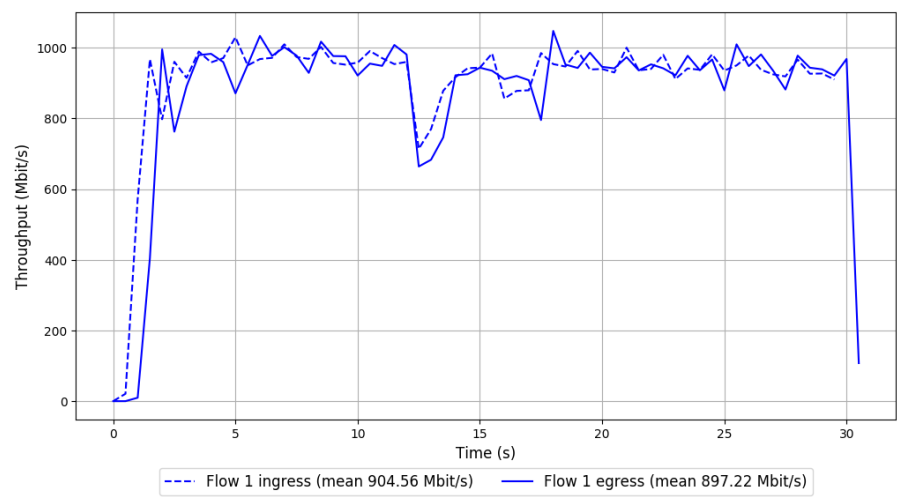
-- Flow 1:

Average throughput: 897.22 Mbit/s

95th percentile per-packet one-way delay: 141.207 ms

Loss rate: 0.81%

Run 8: Report of FillP — Data Link

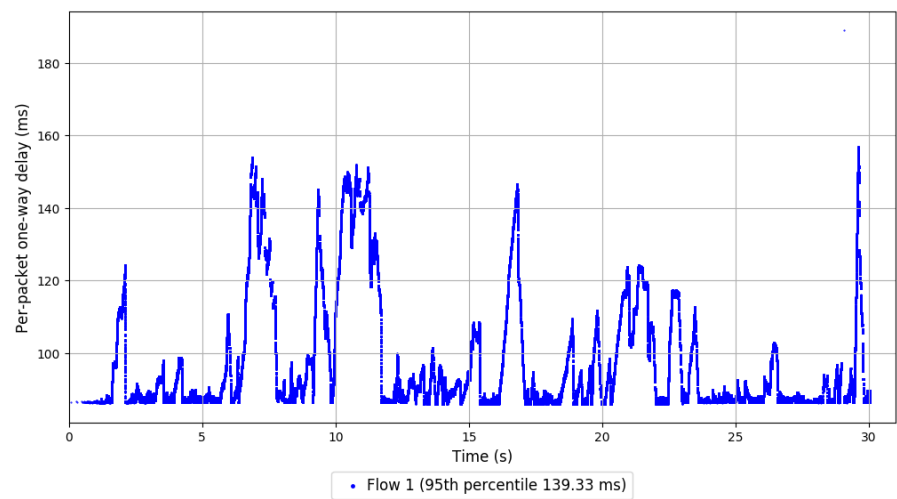
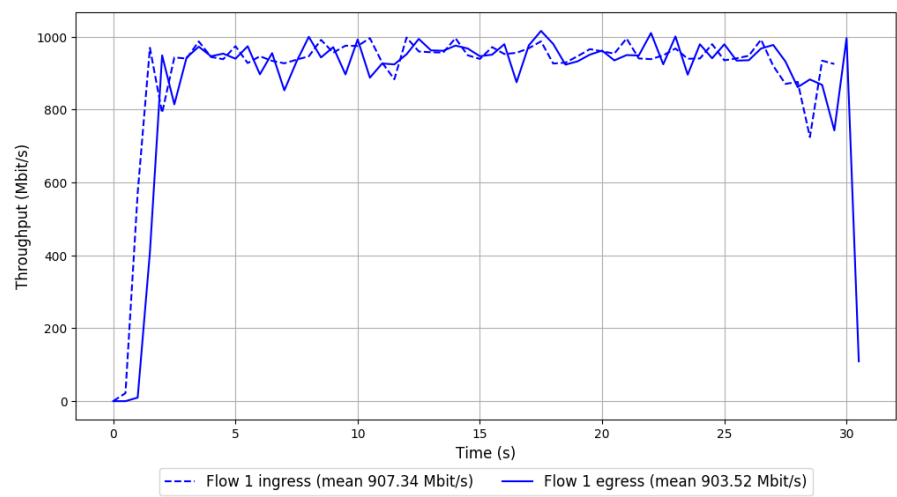


Run 9: Statistics of FillP

Start at: 2018-08-27 10:13:04
End at: 2018-08-27 10:13:34
Local clock offset: -0.086 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-08-27 12:25:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 903.52 Mbit/s
95th percentile per-packet one-way delay: 139.334 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 903.52 Mbit/s
95th percentile per-packet one-way delay: 139.334 ms
Loss rate: 0.42%

Run 9: Report of FillP — Data Link

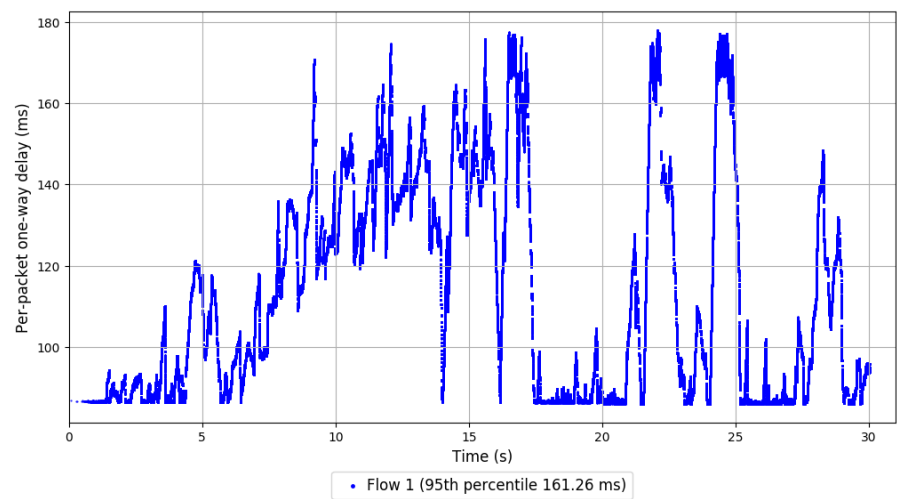
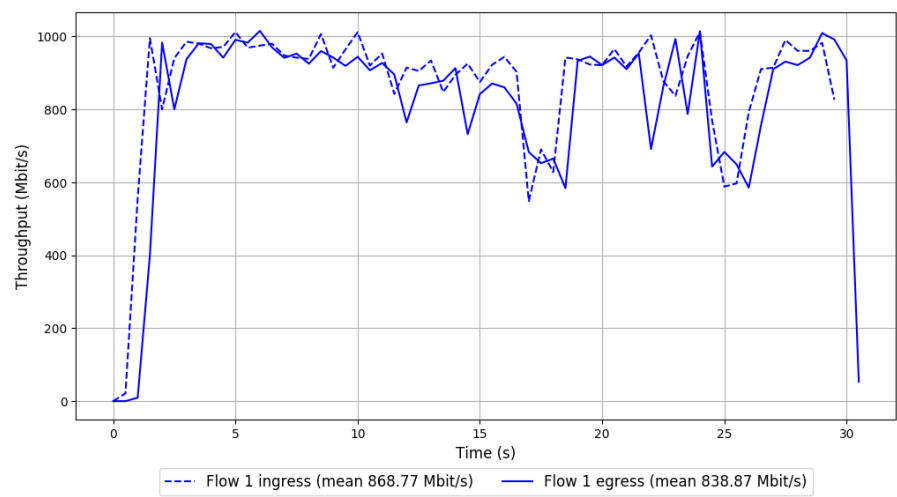


Run 10: Statistics of FillP

Start at: 2018-08-27 10:37:27
End at: 2018-08-27 10:37:57
Local clock offset: -0.15 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-08-27 12:25:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 838.87 Mbit/s
95th percentile per-packet one-way delay: 161.261 ms
Loss rate: 3.44%
-- Flow 1:
Average throughput: 838.87 Mbit/s
95th percentile per-packet one-way delay: 161.261 ms
Loss rate: 3.44%

Run 10: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2018-08-27 07:18:16

End at: 2018-08-27 07:18:46

Local clock offset: 7.827 ms

Remote clock offset: 7.869 ms

Below is generated by plot.py at 2018-08-27 12:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 757.93 Mbit/s

95th percentile per-packet one-way delay: 168.145 ms

Loss rate: 10.22%

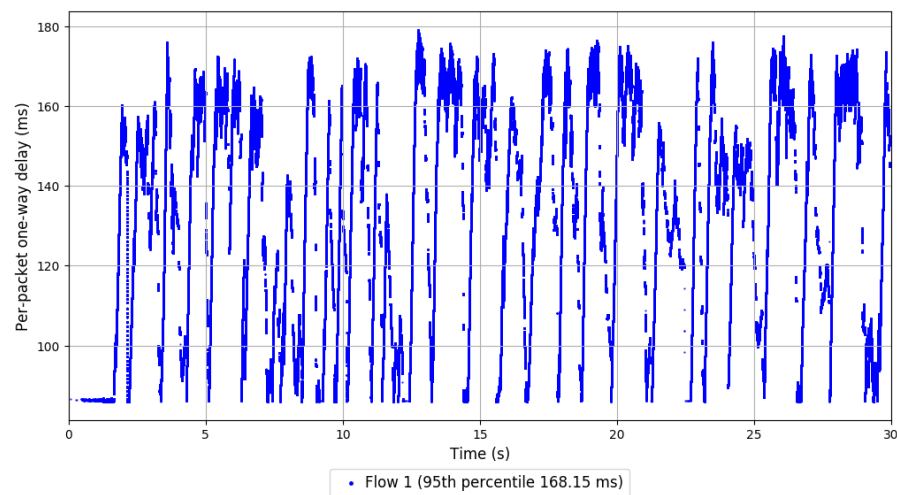
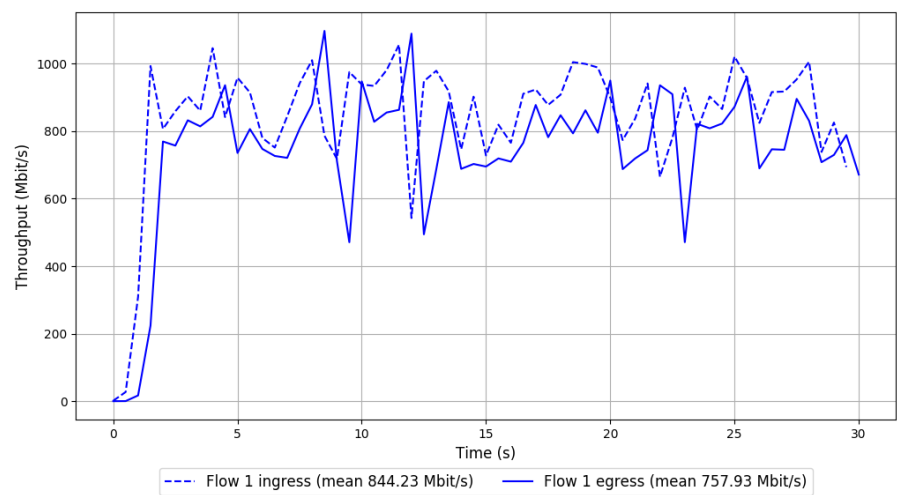
-- Flow 1:

Average throughput: 757.93 Mbit/s

95th percentile per-packet one-way delay: 168.145 ms

Loss rate: 10.22%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2018-08-27 07:42:30

End at: 2018-08-27 07:43:00

Local clock offset: 6.305 ms

Remote clock offset: 6.359 ms

Below is generated by plot.py at 2018-08-27 12:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 921.31 Mbit/s

95th percentile per-packet one-way delay: 147.263 ms

Loss rate: 1.94%

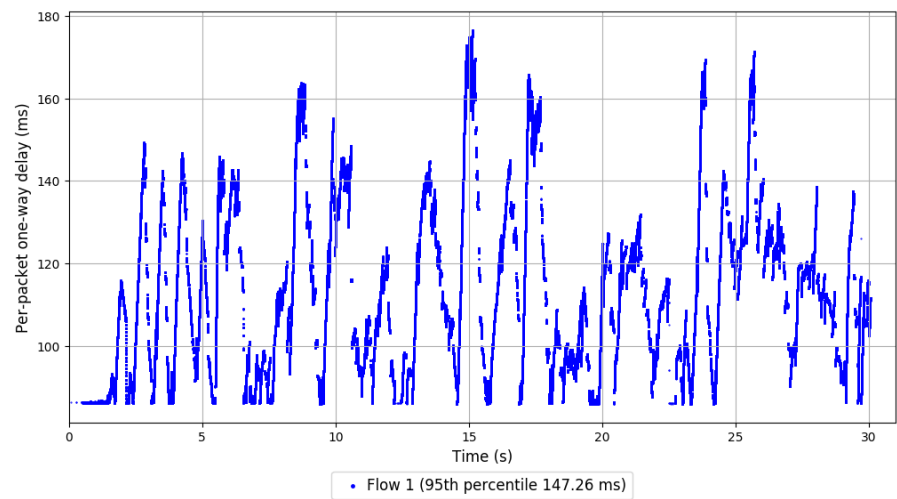
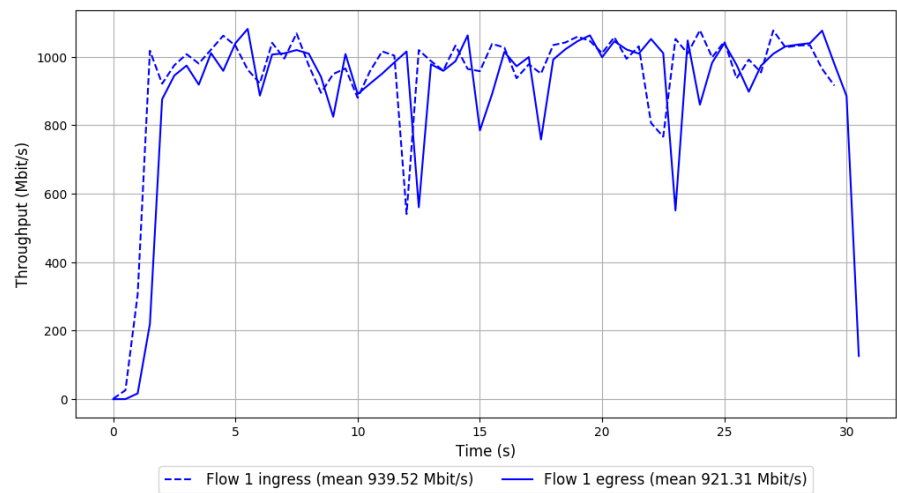
-- Flow 1:

Average throughput: 921.31 Mbit/s

95th percentile per-packet one-way delay: 147.263 ms

Loss rate: 1.94%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2018-08-27 08:06:57

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

Local clock offset: 2.11 ms

Remote clock offset: 4.216 ms

Below is generated by plot.py at 2018-08-27 12:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 822.22 Mbit/s

95th percentile per-packet one-way delay: 157.790 ms

Loss rate: 4.80%

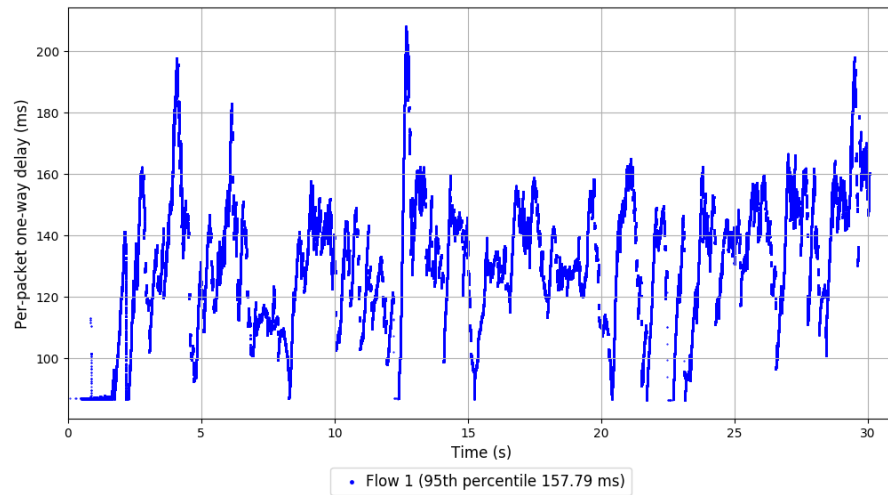
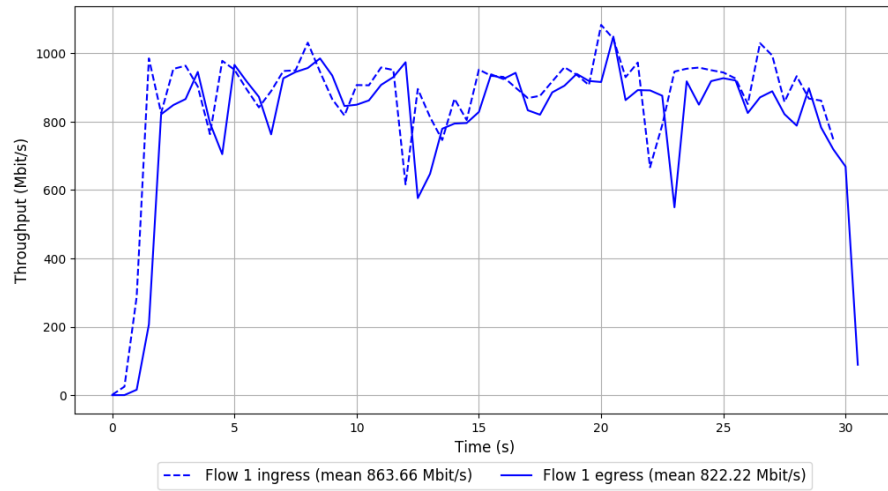
-- Flow 1:

Average throughput: 822.22 Mbit/s

95th percentile per-packet one-way delay: 157.790 ms

Loss rate: 4.80%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

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

End at: 2018-08-27 08:31:38

Local clock offset: 0.867 ms

Remote clock offset: 1.067 ms

Below is generated by plot.py at 2018-08-27 12:31:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 816.87 Mbit/s

95th percentile per-packet one-way delay: 160.135 ms

Loss rate: 4.79%

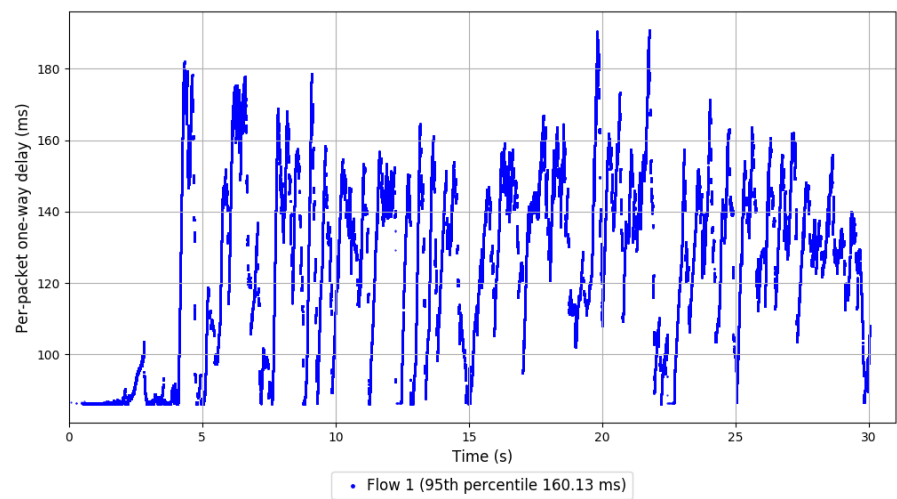
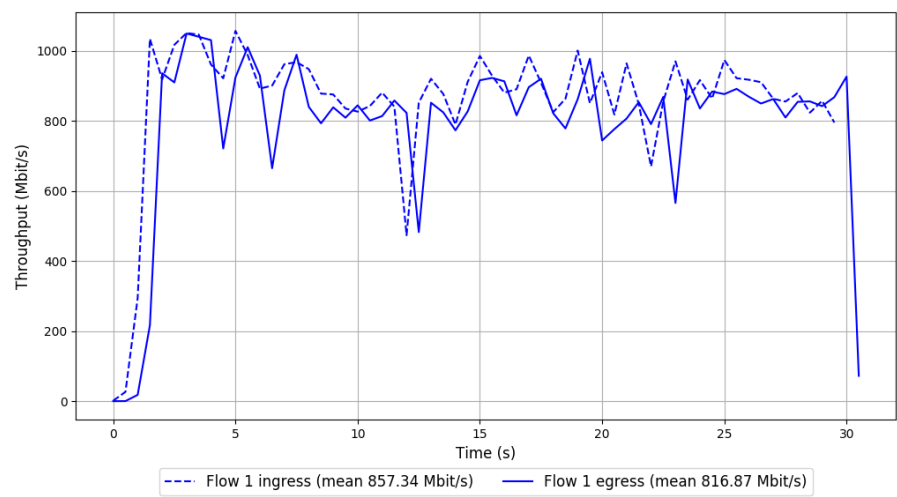
-- Flow 1:

Average throughput: 816.87 Mbit/s

95th percentile per-packet one-way delay: 160.135 ms

Loss rate: 4.79%

Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-08-27 08:55:29

End at: 2018-08-27 08:55:59

Local clock offset: 0.387 ms

Remote clock offset: 0.532 ms

Below is generated by plot.py at 2018-08-27 12:32:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 814.05 Mbit/s

95th percentile per-packet one-way delay: 159.565 ms

Loss rate: 5.10%

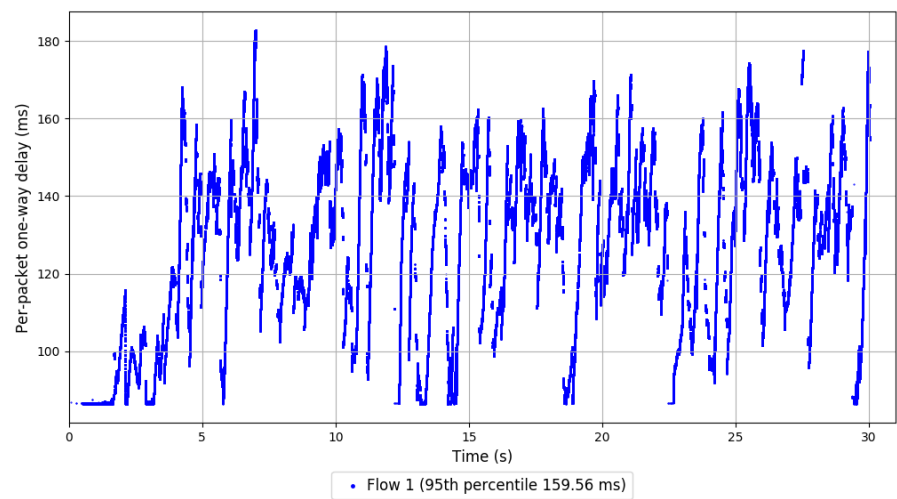
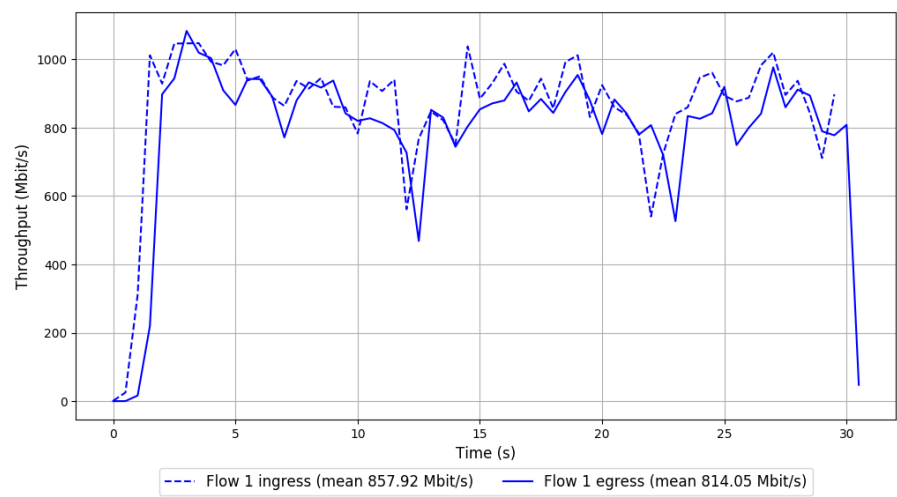
-- Flow 1:

Average throughput: 814.05 Mbit/s

95th percentile per-packet one-way delay: 159.565 ms

Loss rate: 5.10%

Run 5: Report of FillP-Sheep — Data Link



Run 6: Statistics of FillP-Sheep

Start at: 2018-08-27 09:19:58

End at: 2018-08-27 09:20:28

Local clock offset: 0.425 ms

Remote clock offset: 0.577 ms

Below is generated by plot.py at 2018-08-27 12:33:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 792.40 Mbit/s

95th percentile per-packet one-way delay: 159.583 ms

Loss rate: 4.26%

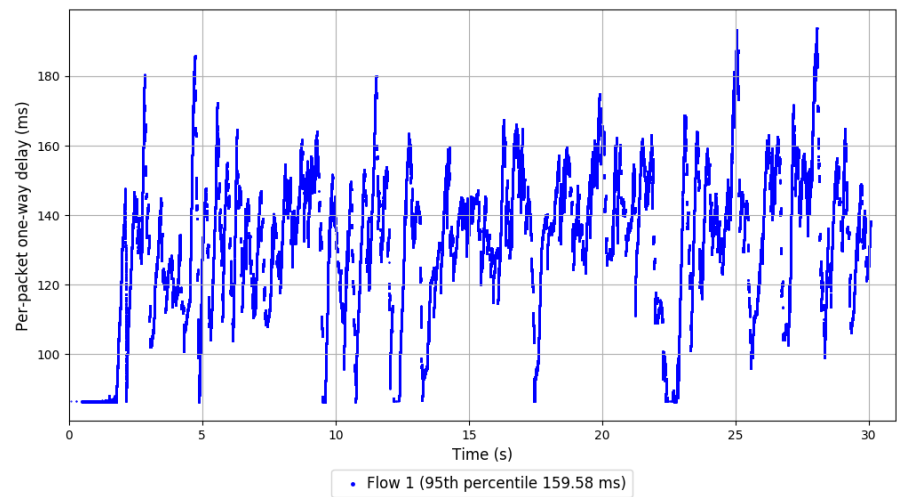
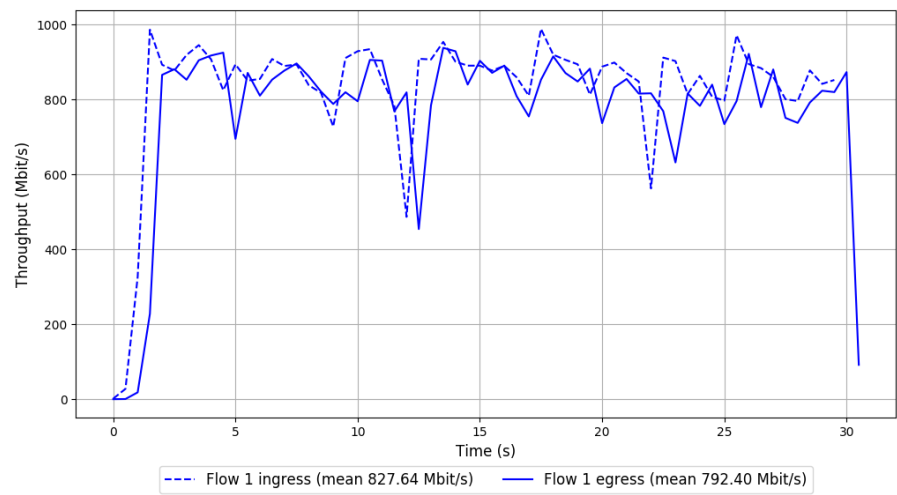
-- Flow 1:

Average throughput: 792.40 Mbit/s

95th percentile per-packet one-way delay: 159.583 ms

Loss rate: 4.26%

Run 6: Report of FillP-Sheep — Data Link



Run 7: Statistics of FillP-Sheep

Start at: 2018-08-27 09:44:17

End at: 2018-08-27 09:44:47

Local clock offset: 0.832 ms

Remote clock offset: 0.173 ms

Below is generated by plot.py at 2018-08-27 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.41 Mbit/s

95th percentile per-packet one-way delay: 143.078 ms

Loss rate: 1.46%

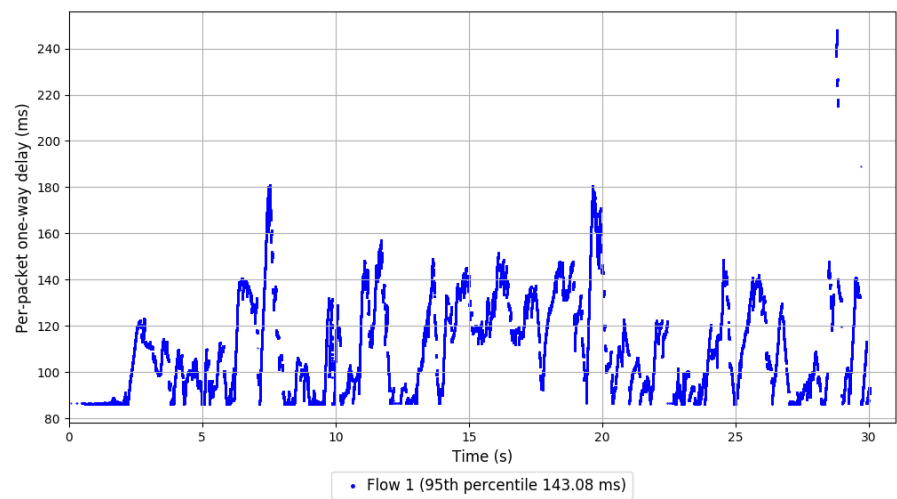
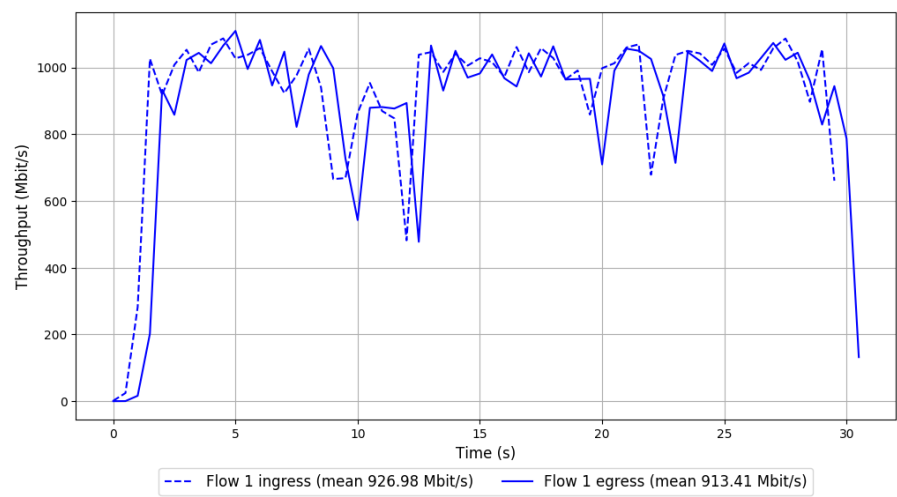
-- Flow 1:

Average throughput: 913.41 Mbit/s

95th percentile per-packet one-way delay: 143.078 ms

Loss rate: 1.46%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-27 10:08:36

End at: 2018-08-27 10:09:06

Local clock offset: 0.084 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-08-27 12:45:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 811.43 Mbit/s

95th percentile per-packet one-way delay: 154.873 ms

Loss rate: 1.79%

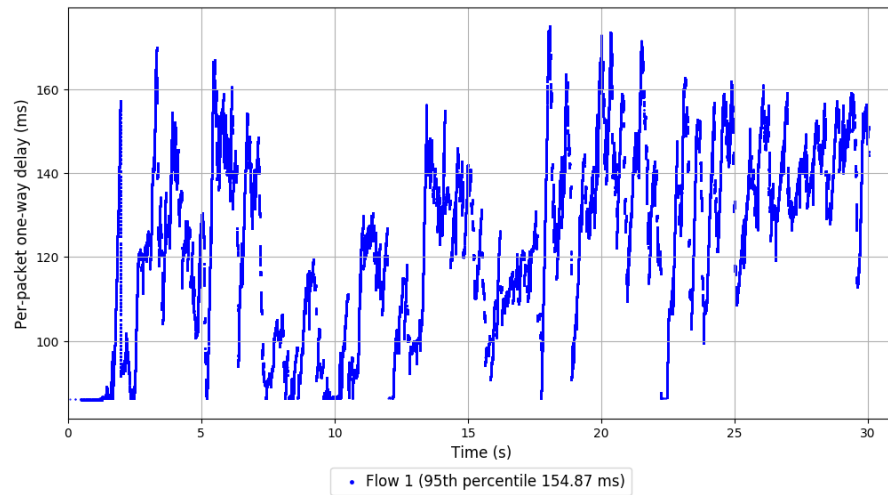
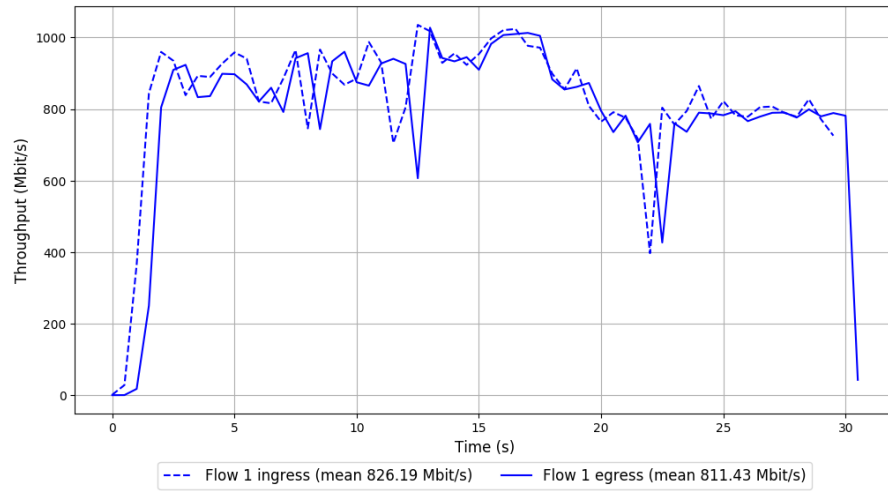
-- Flow 1:

Average throughput: 811.43 Mbit/s

95th percentile per-packet one-way delay: 154.873 ms

Loss rate: 1.79%

Run 8: Report of FillP-Sheep — Data Link

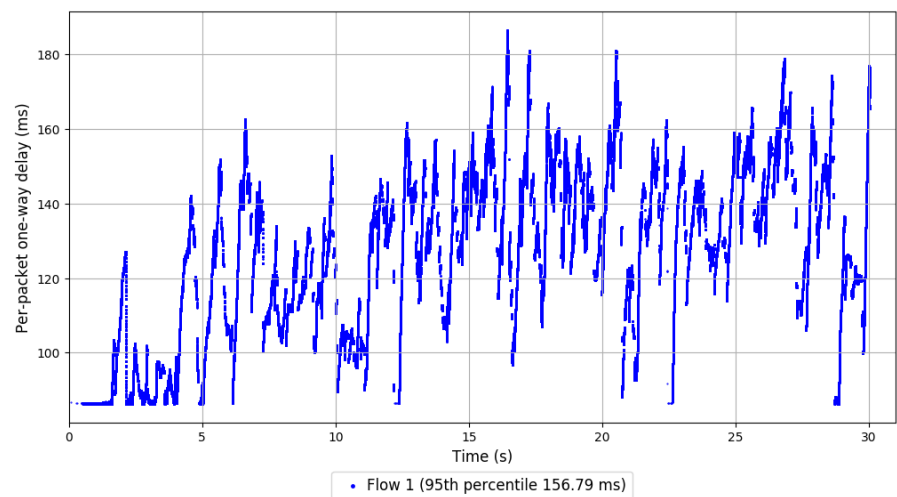
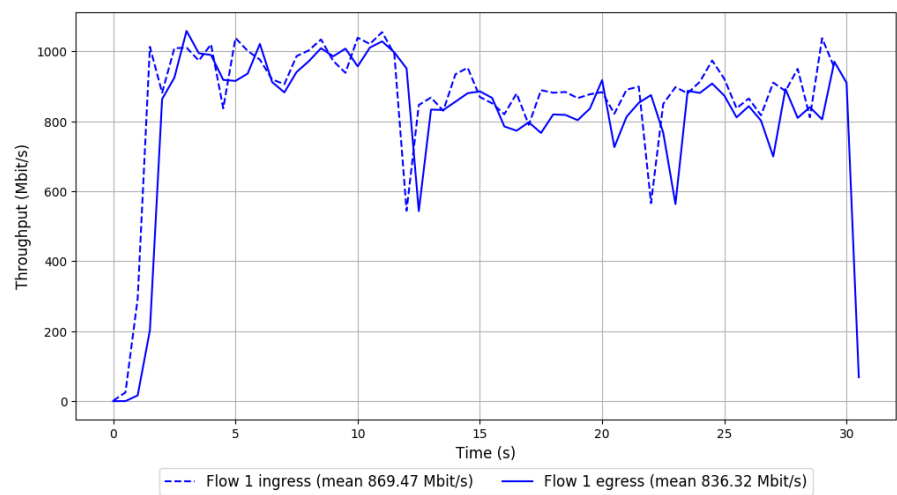


Run 9: Statistics of FillP-Sheep

Start at: 2018-08-27 10:33:02
End at: 2018-08-27 10:33:32
Local clock offset: -0.131 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-08-27 12:46:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 836.32 Mbit/s
95th percentile per-packet one-way delay: 156.786 ms
Loss rate: 3.81%
-- Flow 1:
Average throughput: 836.32 Mbit/s
95th percentile per-packet one-way delay: 156.786 ms
Loss rate: 3.81%

Run 9: Report of FillP-Sheep — Data Link

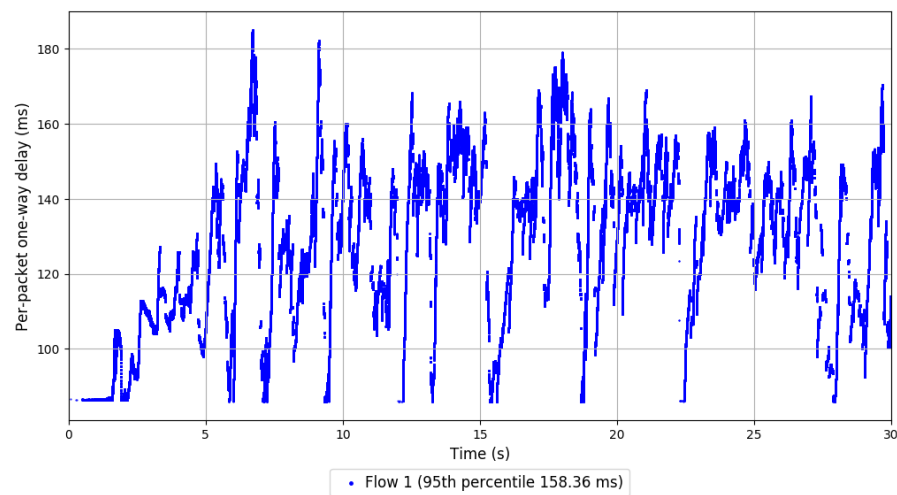
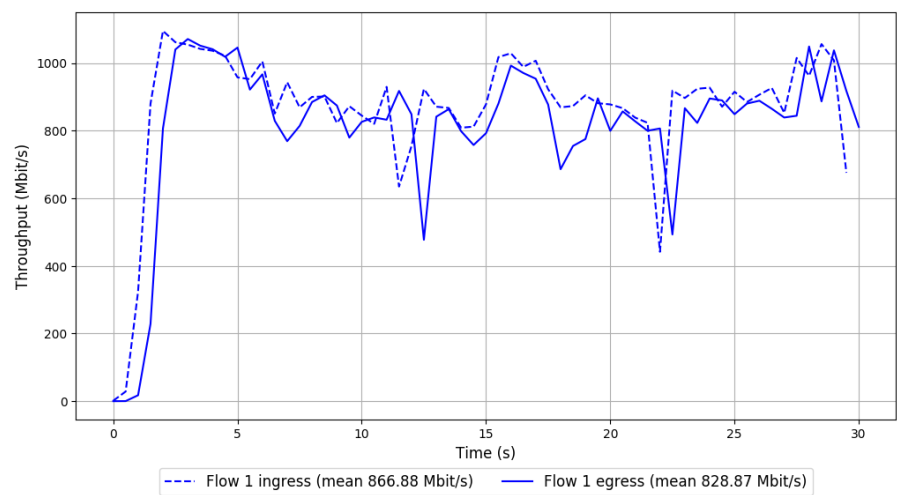


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-27 10:57:35
End at: 2018-08-27 10:58:05
Local clock offset: -0.064 ms
Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-08-27 12:48:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 828.87 Mbit/s
95th percentile per-packet one-way delay: 158.364 ms
Loss rate: 4.38%
-- Flow 1:
Average throughput: 828.87 Mbit/s
95th percentile per-packet one-way delay: 158.364 ms
Loss rate: 4.38%

Run 10: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2018-08-27 07:11:06

End at: 2018-08-27 07:11:36

Local clock offset: 10.67 ms

Remote clock offset: 10.858 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 163.78 Mbit/s

95th percentile per-packet one-way delay: 86.749 ms

Loss rate: 0.00%

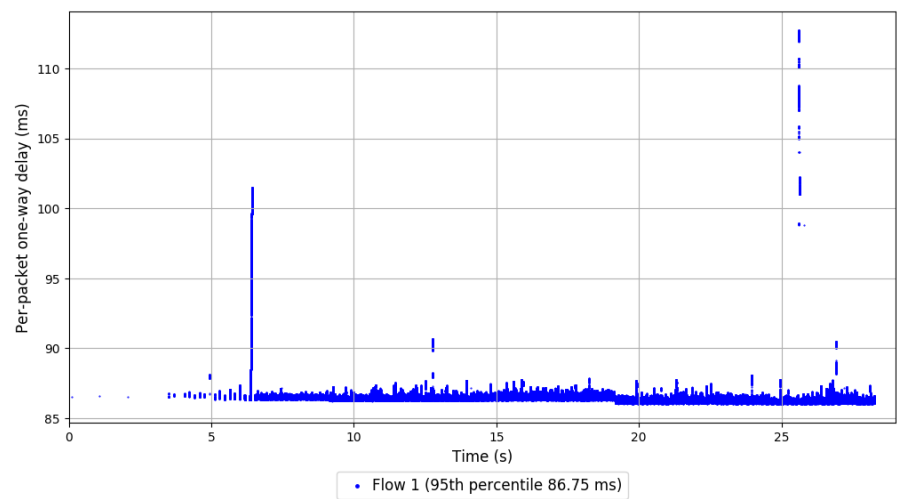
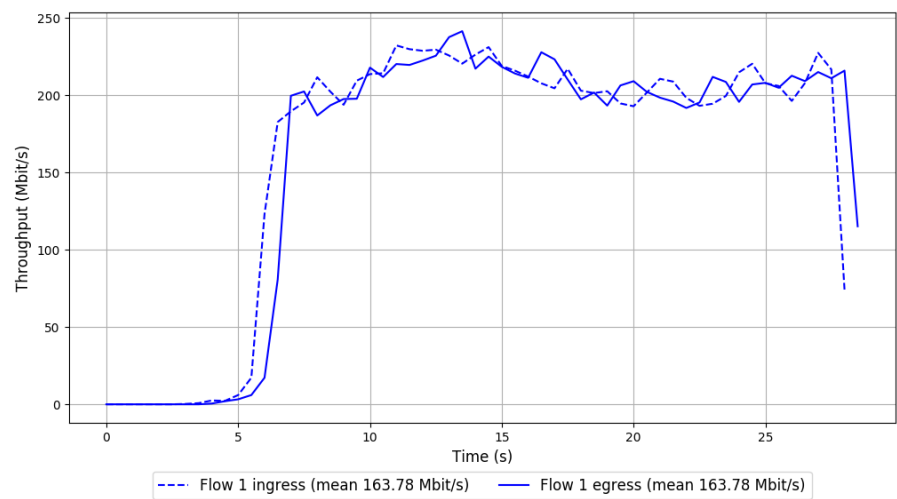
-- Flow 1:

Average throughput: 163.78 Mbit/s

95th percentile per-packet one-way delay: 86.749 ms

Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-27 07:35:21

End at: 2018-08-27 07:35:51

Local clock offset: 9.182 ms

Remote clock offset: 9.424 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 218.42 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 0.00%

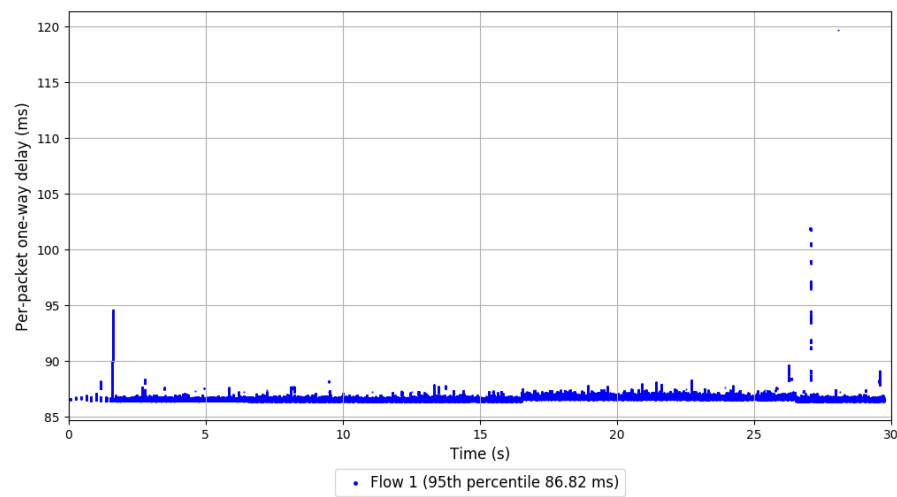
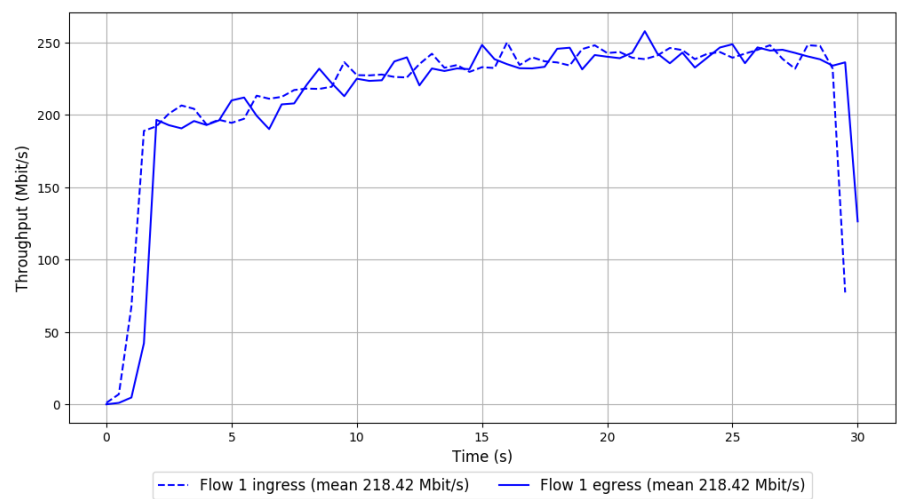
-- Flow 1:

Average throughput: 218.42 Mbit/s

95th percentile per-packet one-way delay: 86.823 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-08-27 07:59:53

End at: 2018-08-27 08:00:23

Local clock offset: 1.867 ms

Remote clock offset: 3.638 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.03 Mbit/s

95th percentile per-packet one-way delay: 86.684 ms

Loss rate: 0.00%

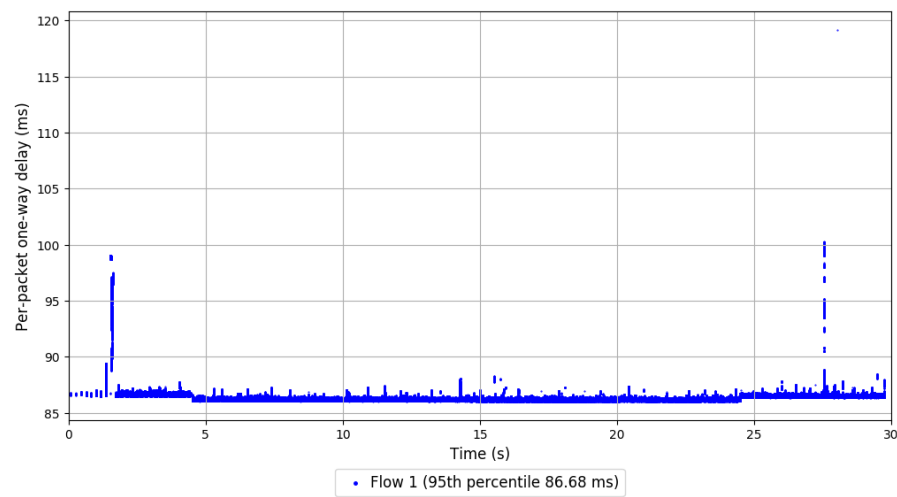
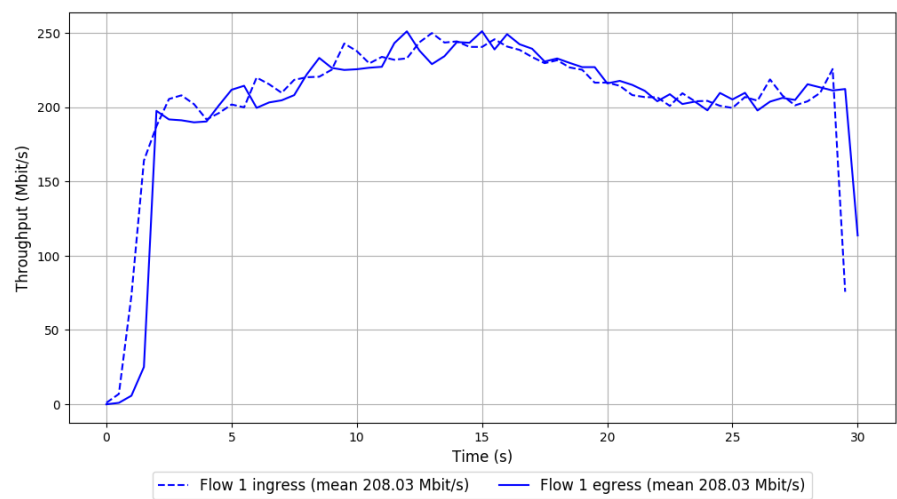
-- Flow 1:

Average throughput: 208.03 Mbit/s

95th percentile per-packet one-way delay: 86.684 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-27 08:24:06

End at: 2018-08-27 08:24:36

Local clock offset: 0.643 ms

Remote clock offset: 1.504 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.97 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.00%

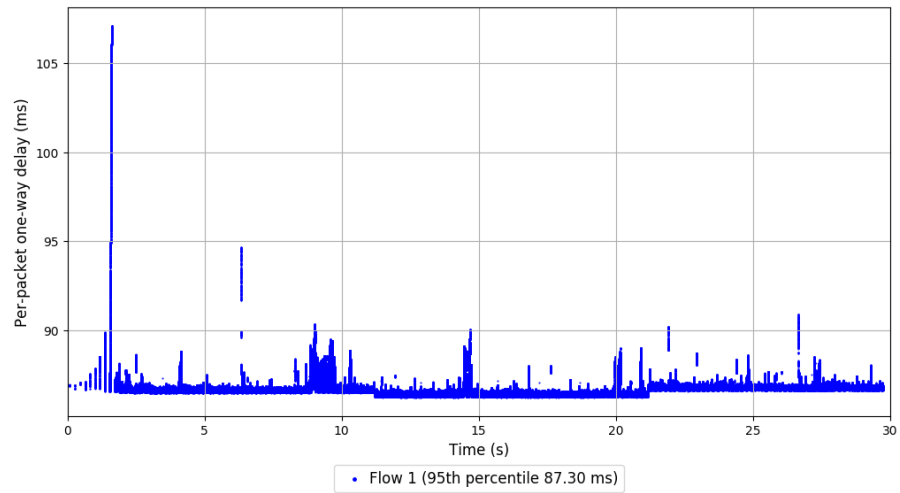
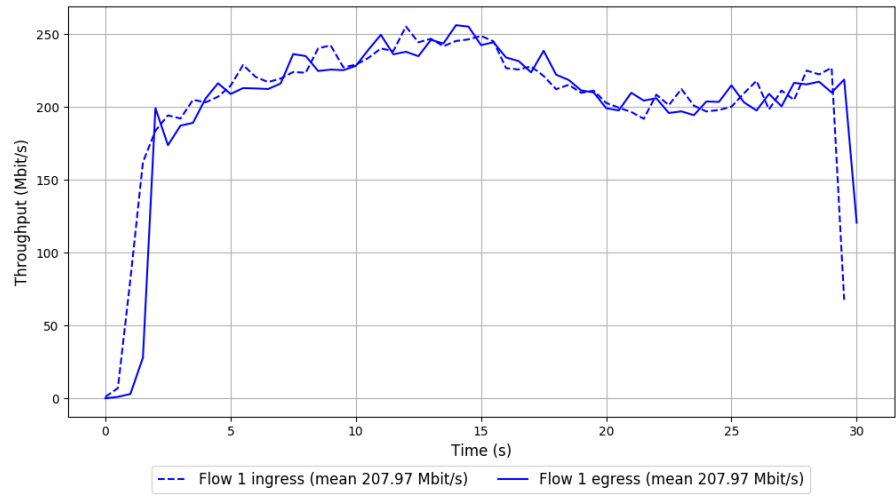
-- Flow 1:

Average throughput: 207.97 Mbit/s

95th percentile per-packet one-way delay: 87.301 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-08-27 08:48:18

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

Local clock offset: 0.726 ms

Remote clock offset: 0.814 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 216.35 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.00%

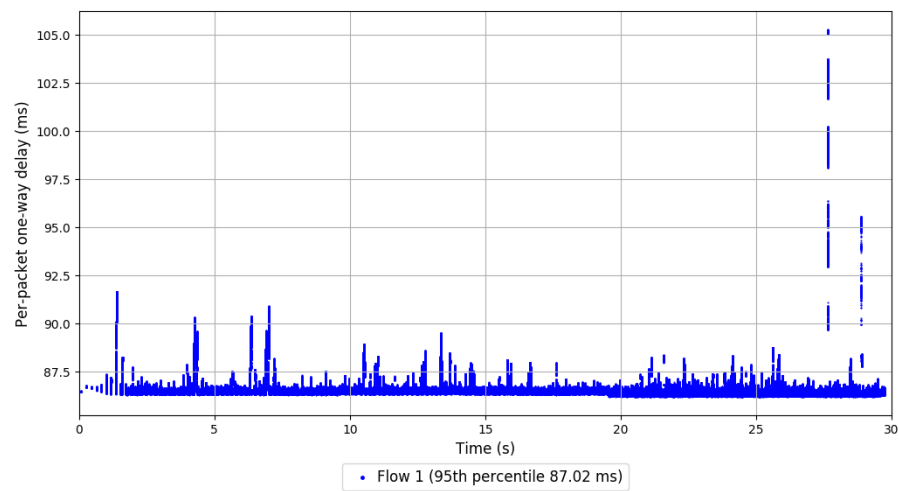
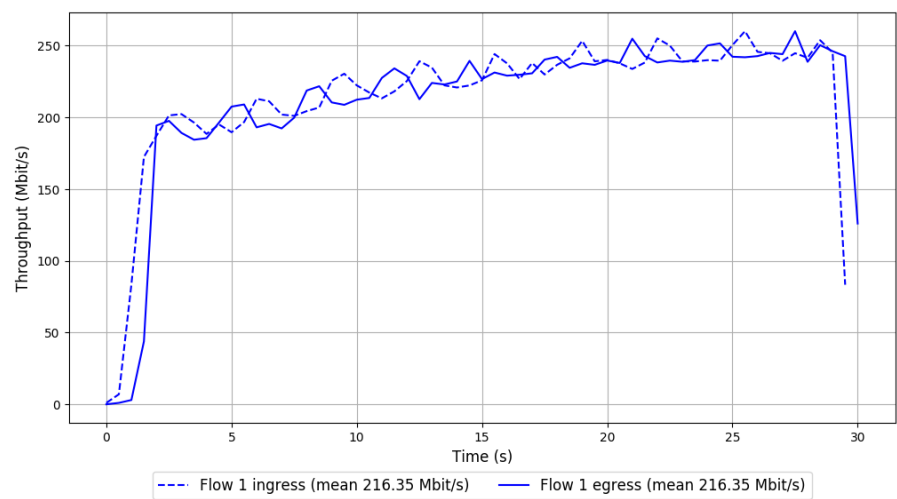
-- Flow 1:

Average throughput: 216.35 Mbit/s

95th percentile per-packet one-way delay: 87.015 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-08-27 09:12:52

End at: 2018-08-27 09:13:22

Local clock offset: 0.317 ms

Remote clock offset: 0.426 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.59 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.00%

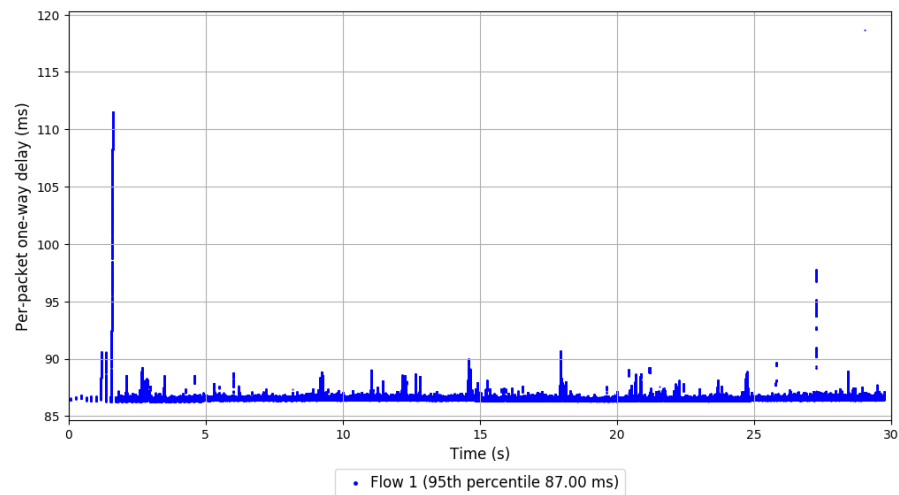
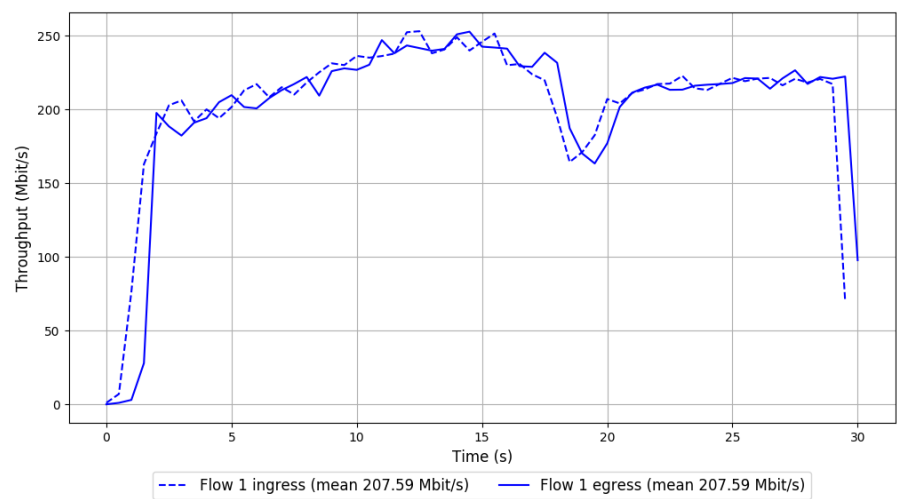
-- Flow 1:

Average throughput: 207.59 Mbit/s

95th percentile per-packet one-way delay: 87.004 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-27 09:37:12

End at: 2018-08-27 09:37:42

Local clock offset: 0.553 ms

Remote clock offset: 0.153 ms

Below is generated by plot.py at 2018-08-27 12:48:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 207.57 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.00%

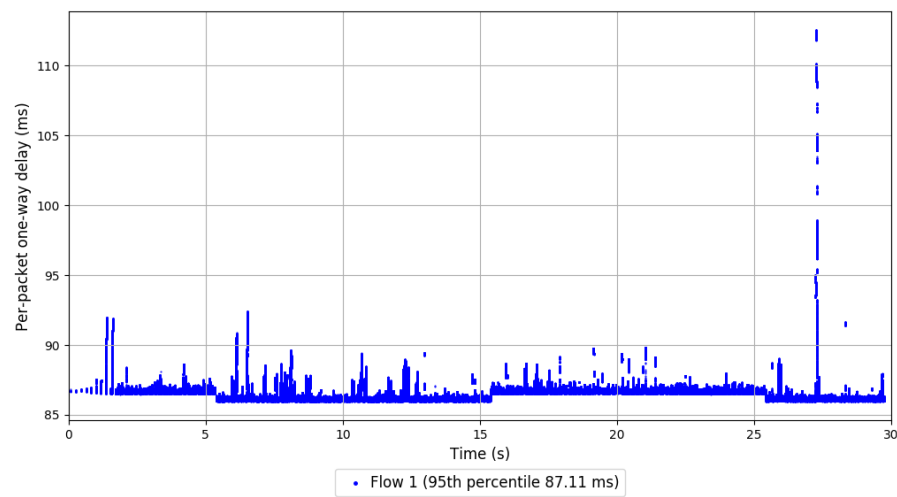
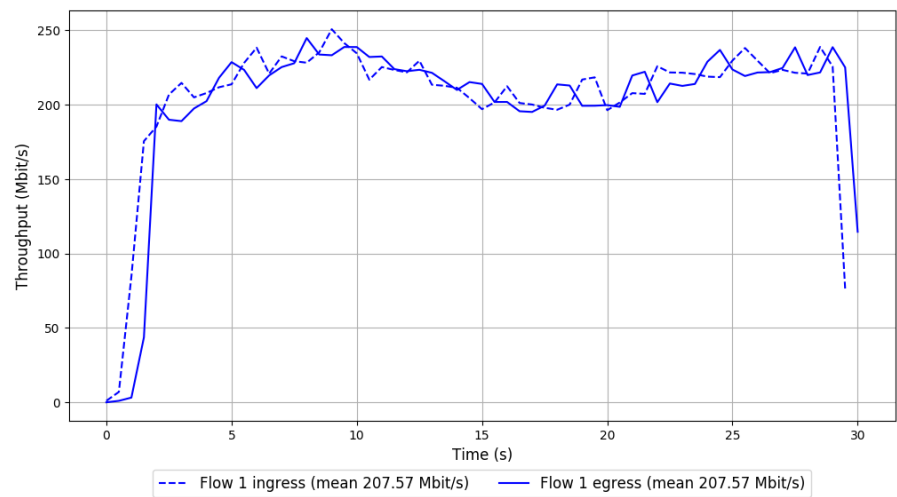
-- Flow 1:

Average throughput: 207.57 Mbit/s

95th percentile per-packet one-way delay: 87.112 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-27 10:01:28

End at: 2018-08-27 10:01:58

Local clock offset: 0.261 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-08-27 12:49:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 213.20 Mbit/s

95th percentile per-packet one-way delay: 87.039 ms

Loss rate: 0.00%

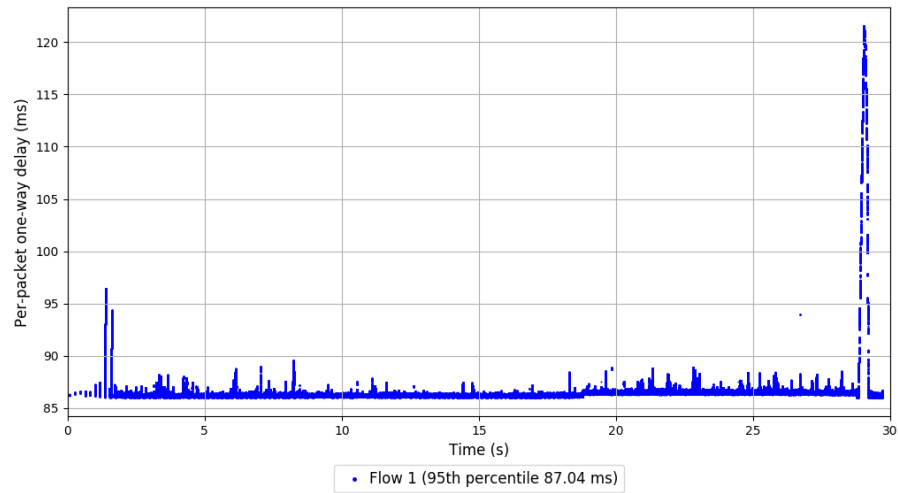
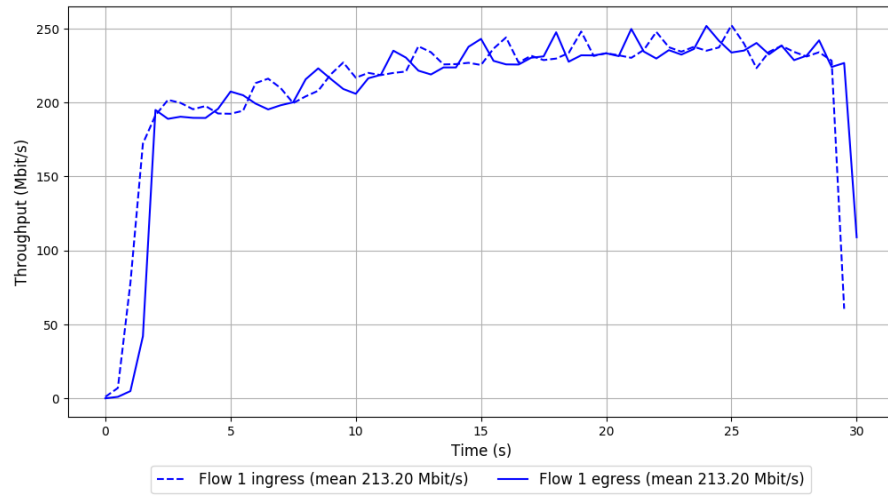
-- Flow 1:

Average throughput: 213.20 Mbit/s

95th percentile per-packet one-way delay: 87.039 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

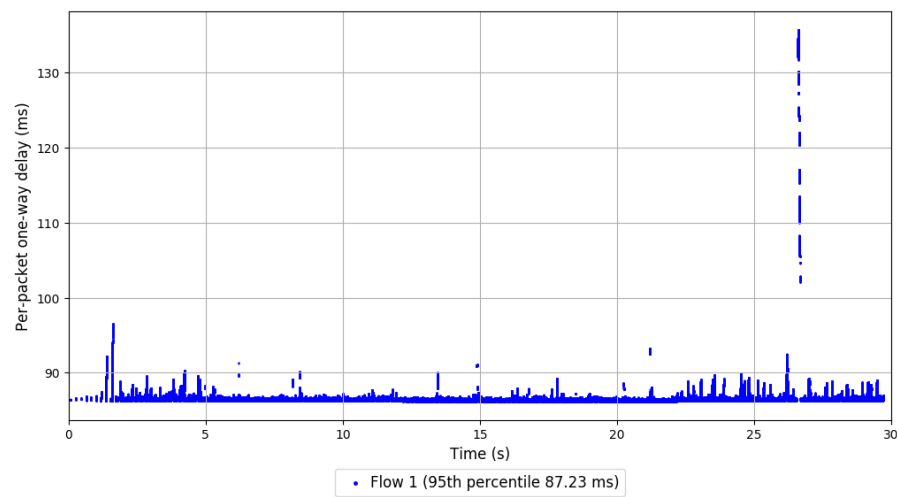
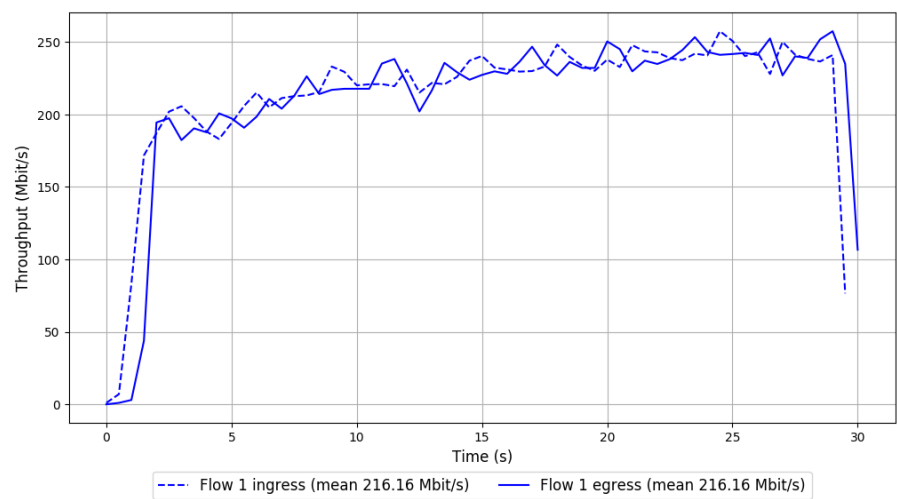


Run 9: Statistics of Indigo

Start at: 2018-08-27 10:25:55
End at: 2018-08-27 10:26:25
Local clock offset: -0.138 ms
Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-08-27 12:49:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 216.16 Mbit/s
95th percentile per-packet one-way delay: 87.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.16 Mbit/s
95th percentile per-packet one-way delay: 87.227 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link

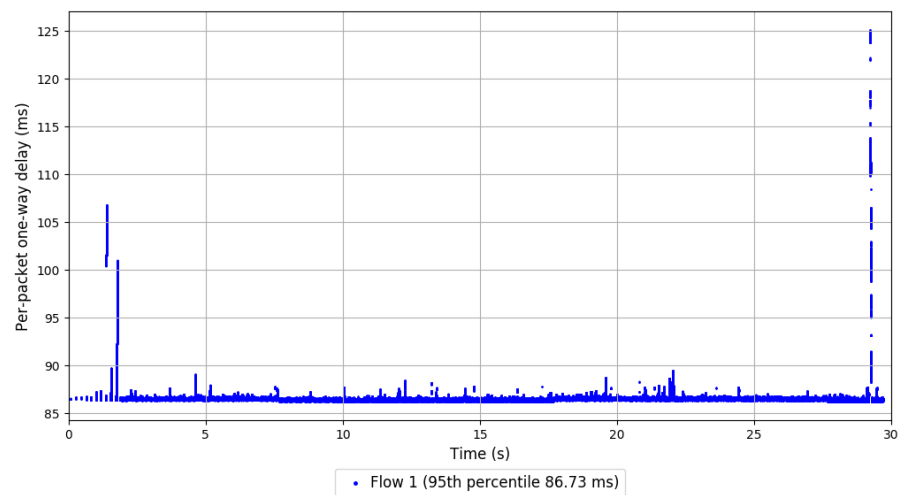
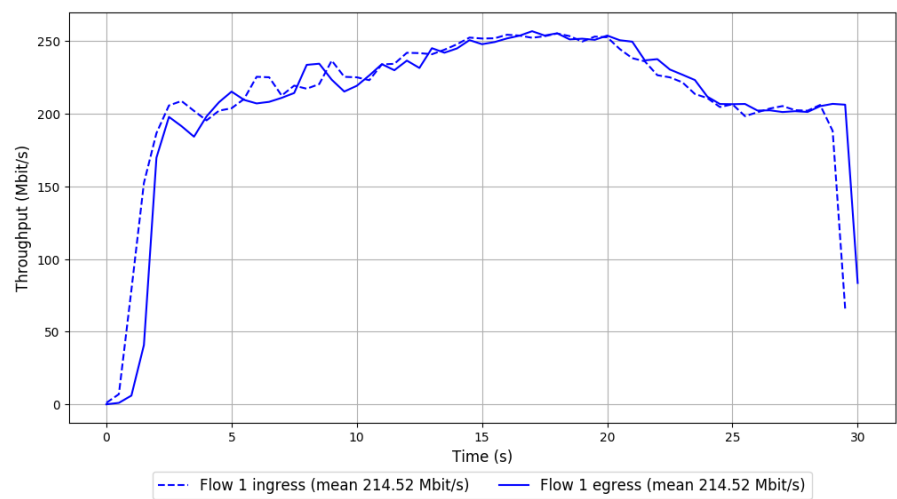


Run 10: Statistics of Indigo

Start at: 2018-08-27 10:50:19
End at: 2018-08-27 10:50:49
Local clock offset: -0.144 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-08-27 12:50:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.52 Mbit/s
95th percentile per-packet one-way delay: 86.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.52 Mbit/s
95th percentile per-packet one-way delay: 86.727 ms
Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

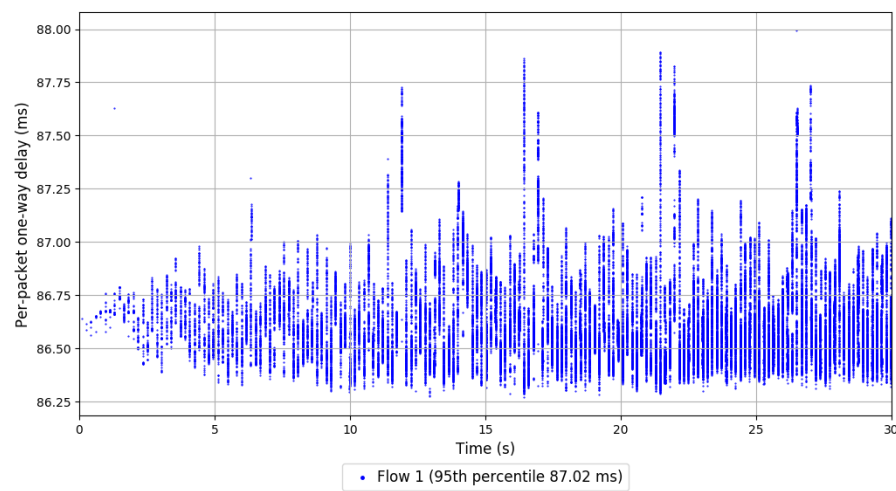
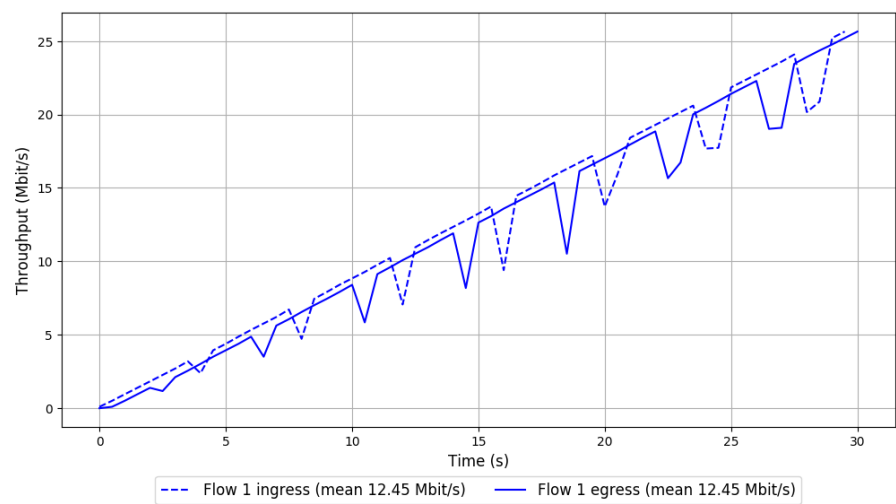


Run 1: Statistics of LEDBAT

Start at: 2018-08-27 07:00:06
End at: 2018-08-27 07:00:36
Local clock offset: 18.722 ms
Remote clock offset: 19.167 ms

Below is generated by plot.py at 2018-08-27 12:50:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 87.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.45 Mbit/s
95th percentile per-packet one-way delay: 87.024 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-08-27 07:24:13

End at: 2018-08-27 07:24:43

Local clock offset: 7.496 ms

Remote clock offset: 7.711 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.00%

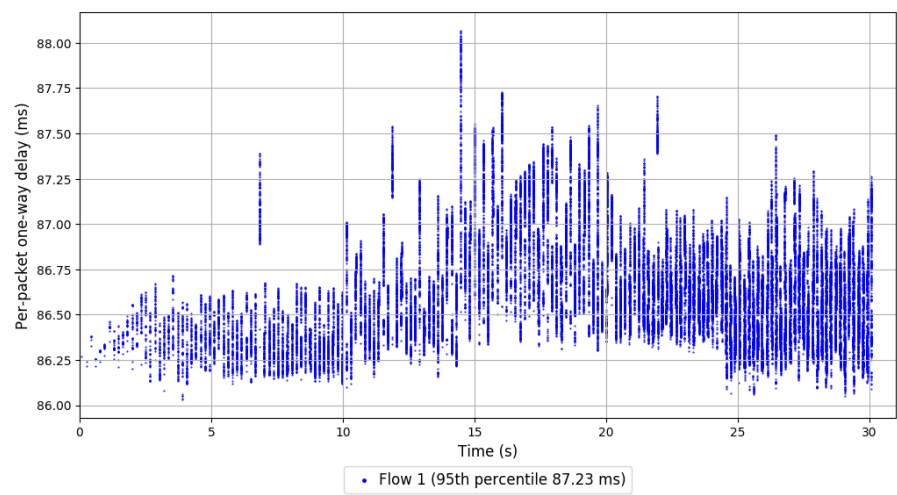
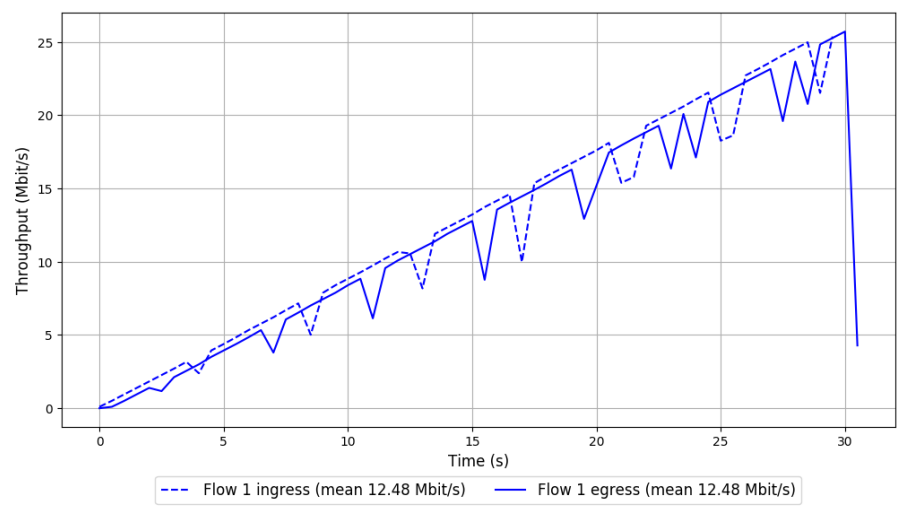
-- Flow 1:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 87.231 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-08-27 07:48:45

End at: 2018-08-27 07:49:15

Local clock offset: 3.272 ms

Remote clock offset: 4.249 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 87.063 ms

Loss rate: 0.00%

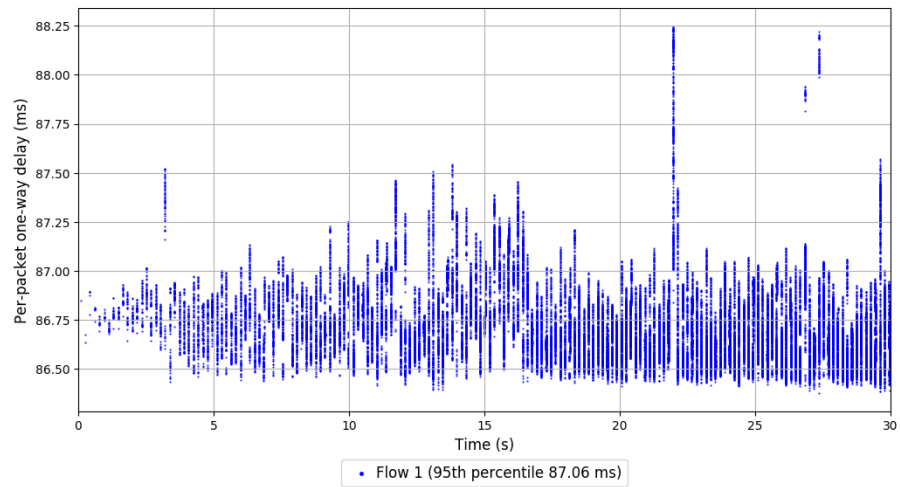
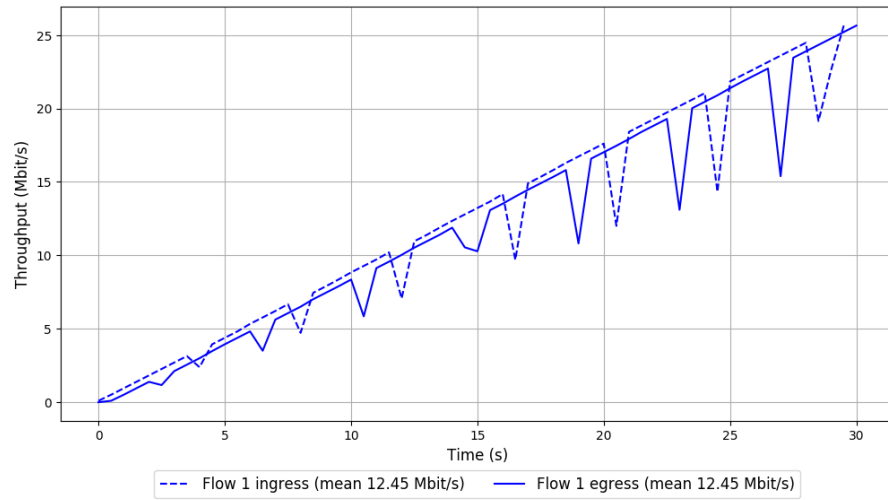
-- Flow 1:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 87.063 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-08-27 08:12:58

End at: 2018-08-27 08:13:28

Local clock offset: 2.078 ms

Remote clock offset: 4.242 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 87.296 ms

Loss rate: 0.00%

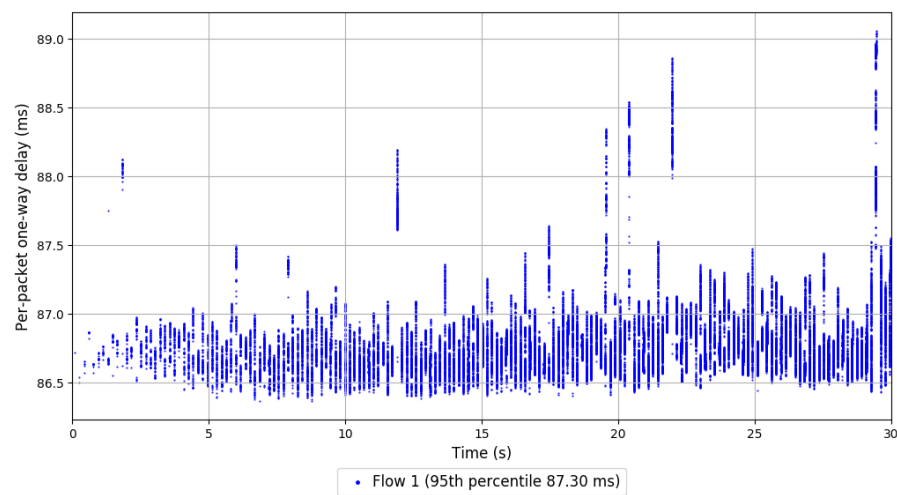
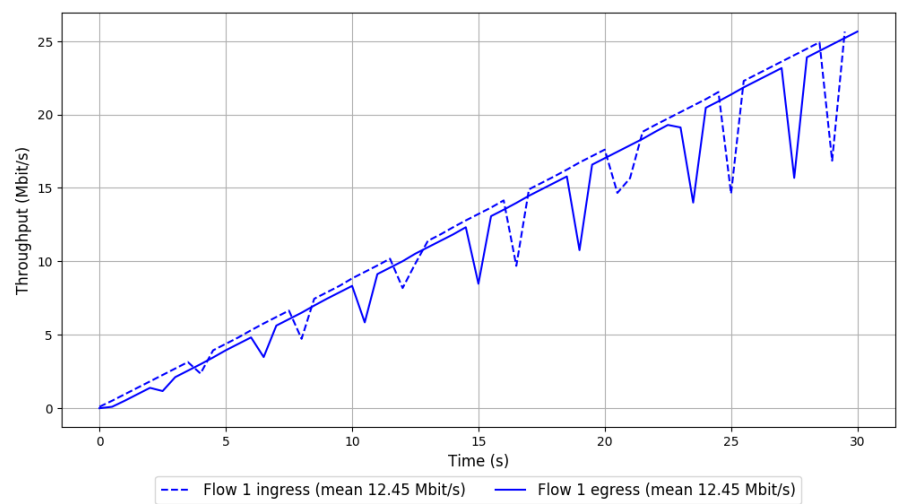
-- Flow 1:

Average throughput: 12.45 Mbit/s

95th percentile per-packet one-way delay: 87.296 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-27 08:37:06

End at: 2018-08-27 08:37:36

Local clock offset: 0.526 ms

Remote clock offset: 0.975 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 87.343 ms

Loss rate: 0.00%

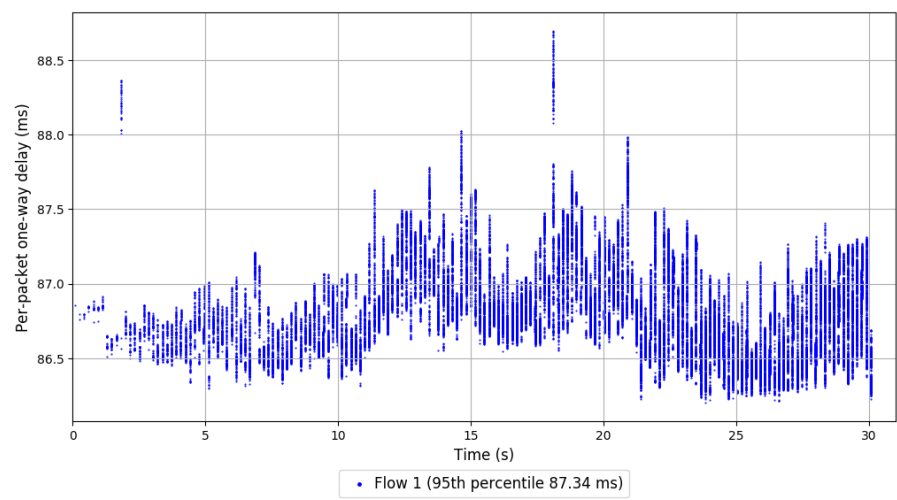
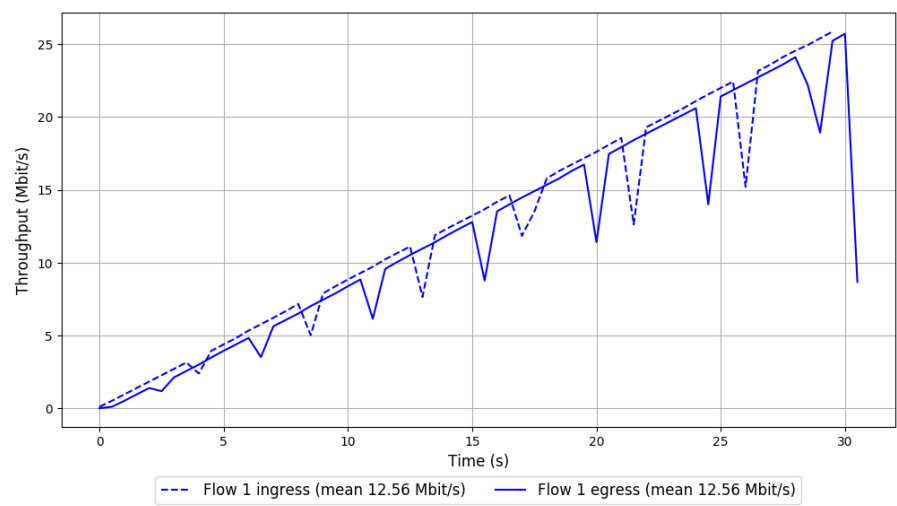
-- Flow 1:

Average throughput: 12.56 Mbit/s

95th percentile per-packet one-way delay: 87.343 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-08-27 09:01:34

End at: 2018-08-27 09:02:04

Local clock offset: 0.14 ms

Remote clock offset: 0.39 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 87.869 ms

Loss rate: 0.00%

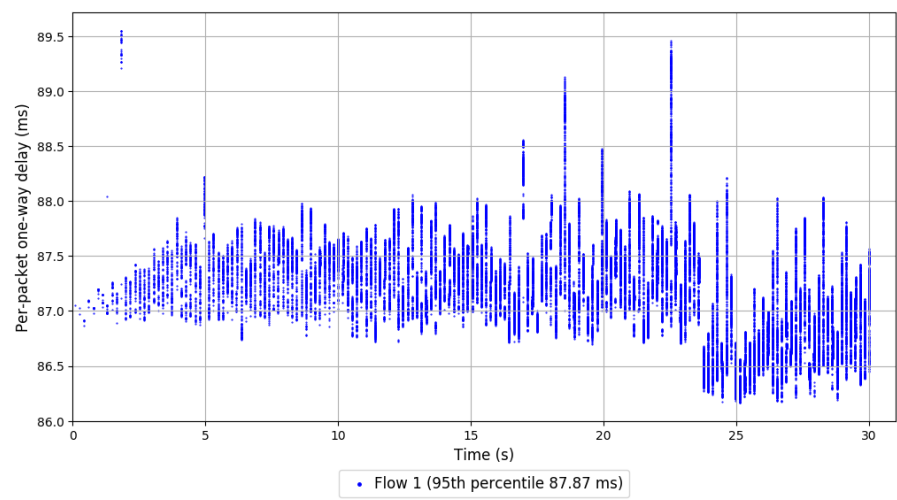
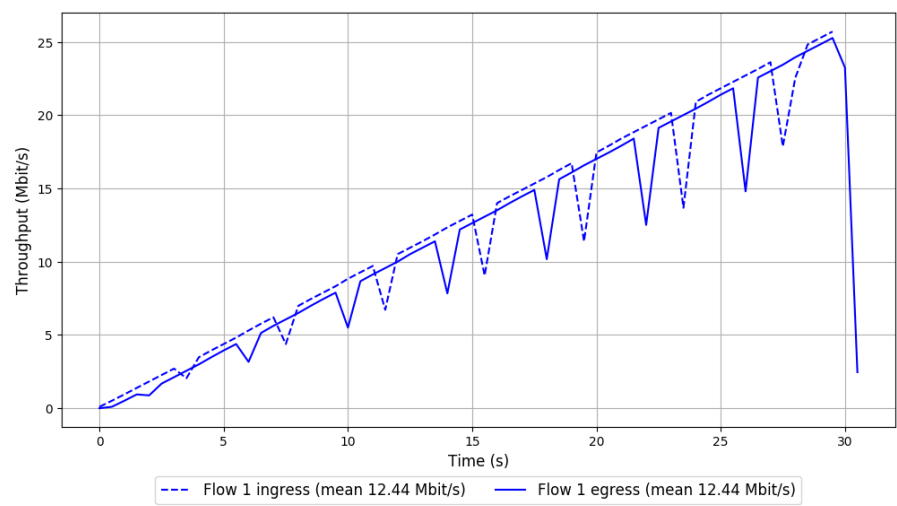
-- Flow 1:

Average throughput: 12.44 Mbit/s

95th percentile per-packet one-way delay: 87.869 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-08-27 09:26:06

End at: 2018-08-27 09:26:36

Local clock offset: 0.379 ms

Remote clock offset: 0.283 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 87.547 ms

Loss rate: 0.00%

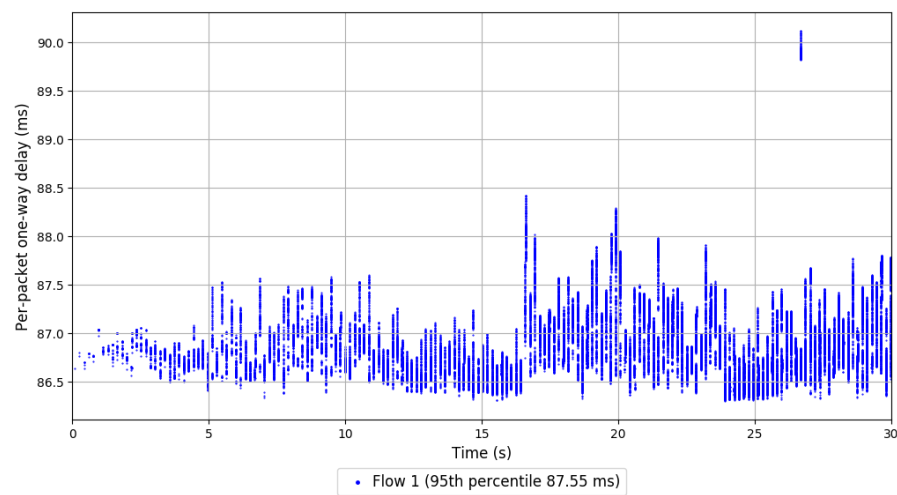
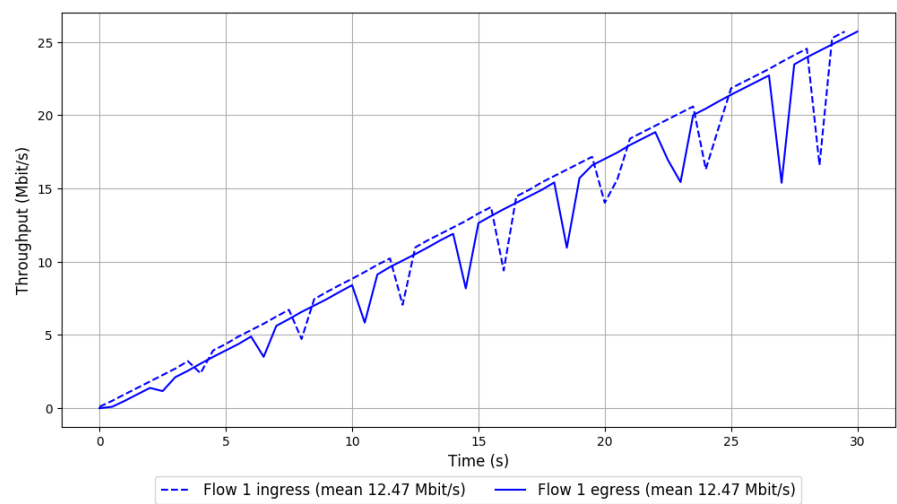
-- Flow 1:

Average throughput: 12.47 Mbit/s

95th percentile per-packet one-way delay: 87.547 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-08-27 09:50:23

End at: 2018-08-27 09:50:53

Local clock offset: 0.743 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-08-27 12:50:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 87.115 ms

Loss rate: 0.00%

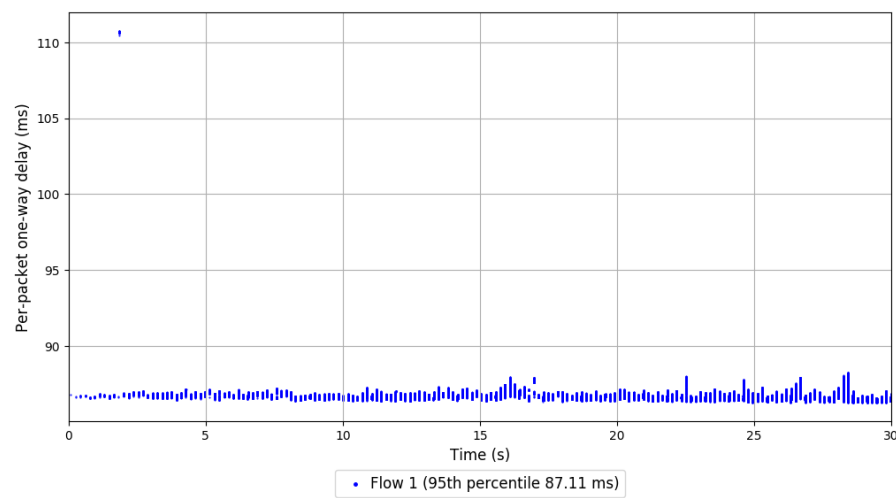
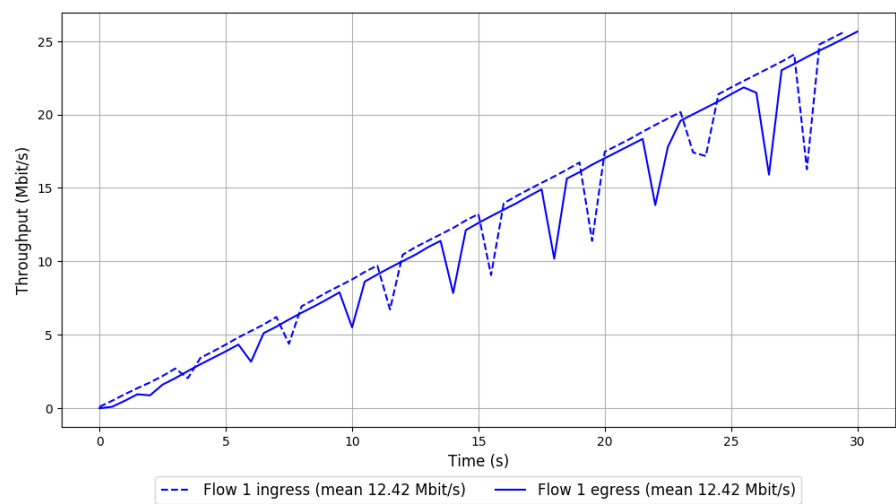
-- Flow 1:

Average throughput: 12.42 Mbit/s

95th percentile per-packet one-way delay: 87.115 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

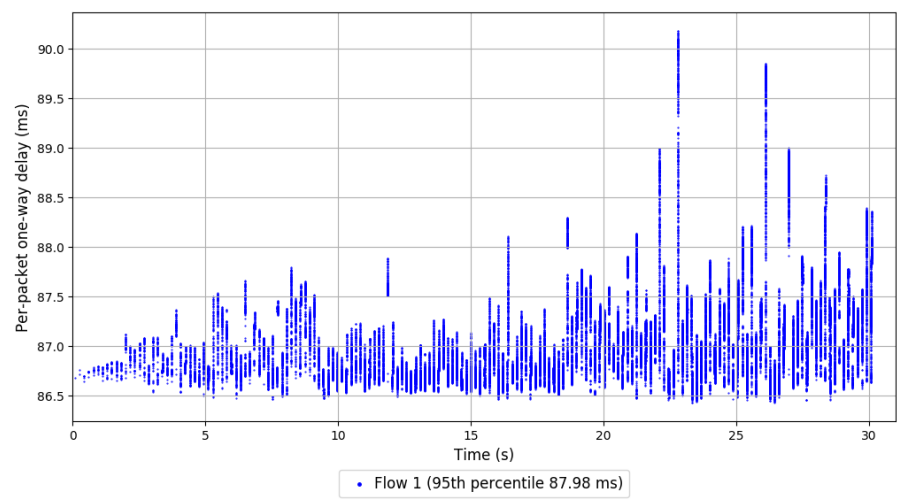
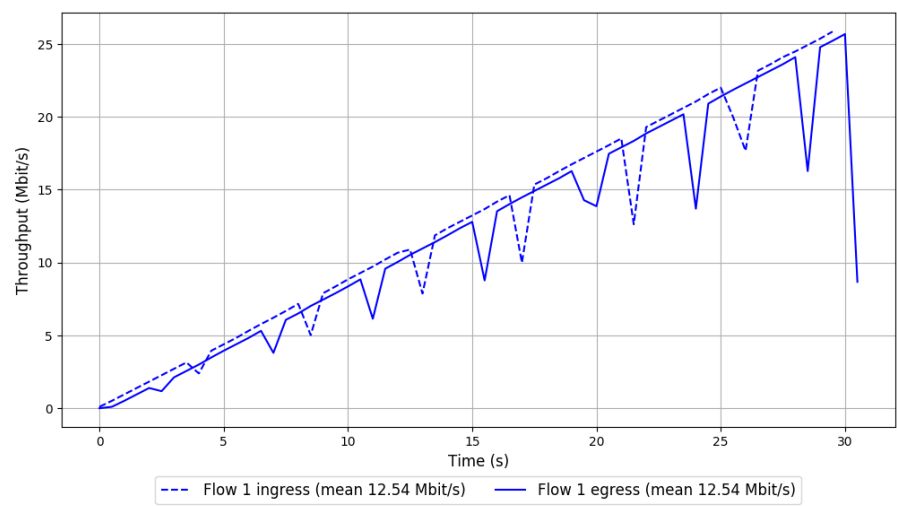


Run 9: Statistics of LEDBAT

Start at: 2018-08-27 10:14:48
End at: 2018-08-27 10:15:18
Local clock offset: -0.24 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-08-27 12:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 87.982 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

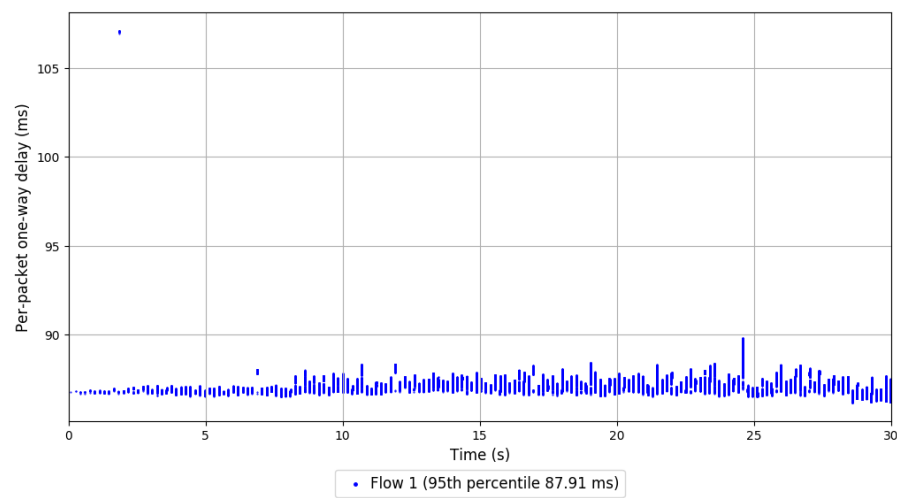
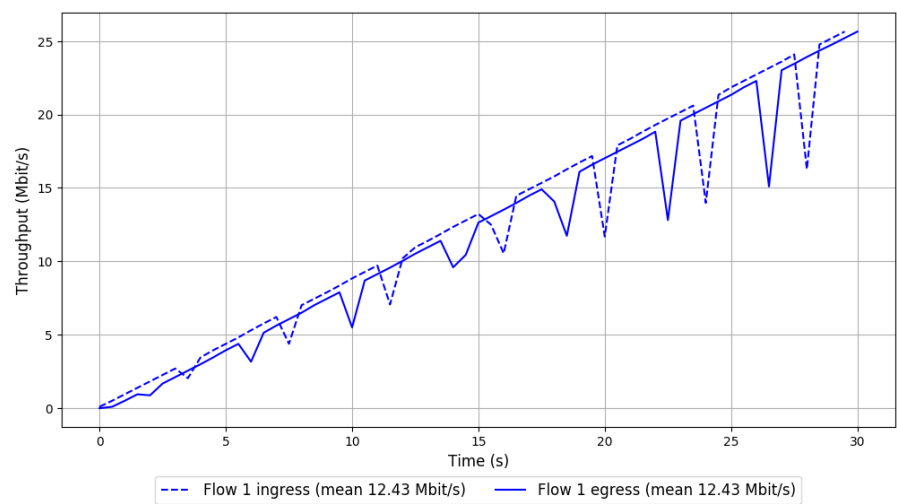


Run 10: Statistics of LEDBAT

Start at: 2018-08-27 10:39:09
End at: 2018-08-27 10:39:39
Local clock offset: -0.323 ms
Remote clock offset: -0.051 ms

Below is generated by plot.py at 2018-08-27 12:50:05
Datalink statistics
-- Total of 1 flow:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 87.914 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.43 Mbit/s
95th percentile per-packet one-way delay: 87.914 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

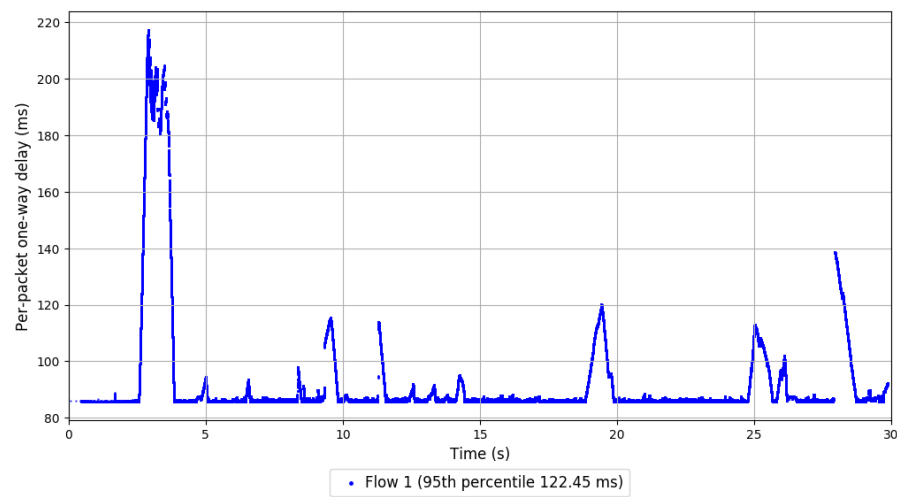
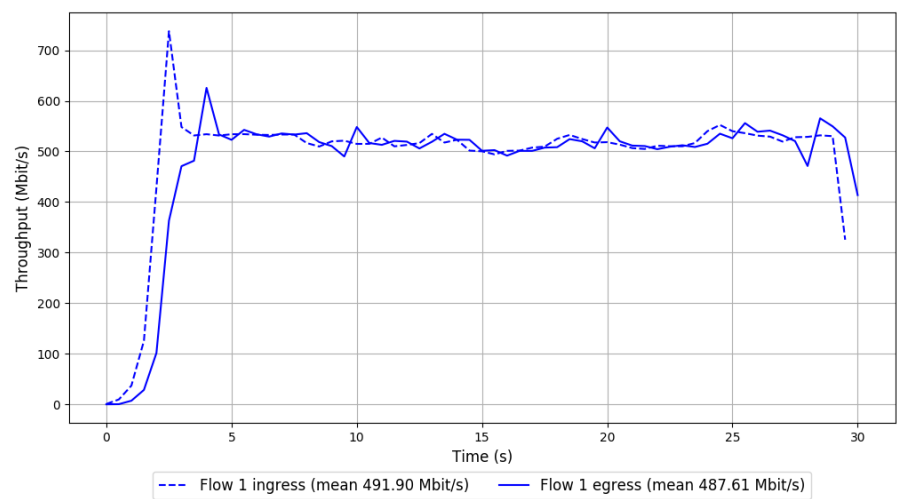


Run 1: Statistics of PCC-Allegro

Start at: 2018-08-27 07:05:31
End at: 2018-08-27 07:06:01
Local clock offset: 17.469 ms
Remote clock offset: 17.194 ms

Below is generated by plot.py at 2018-08-27 13:03:29
Datalink statistics
-- Total of 1 flow:
Average throughput: 487.61 Mbit/s
95th percentile per-packet one-way delay: 122.453 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 487.61 Mbit/s
95th percentile per-packet one-way delay: 122.453 ms
Loss rate: 0.87%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-27 07:29:36

End at: 2018-08-27 07:30:06

Local clock offset: 8.037 ms

Remote clock offset: 8.331 ms

Below is generated by plot.py at 2018-08-27 13:03:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 417.28 Mbit/s

95th percentile per-packet one-way delay: 190.476 ms

Loss rate: 2.06%

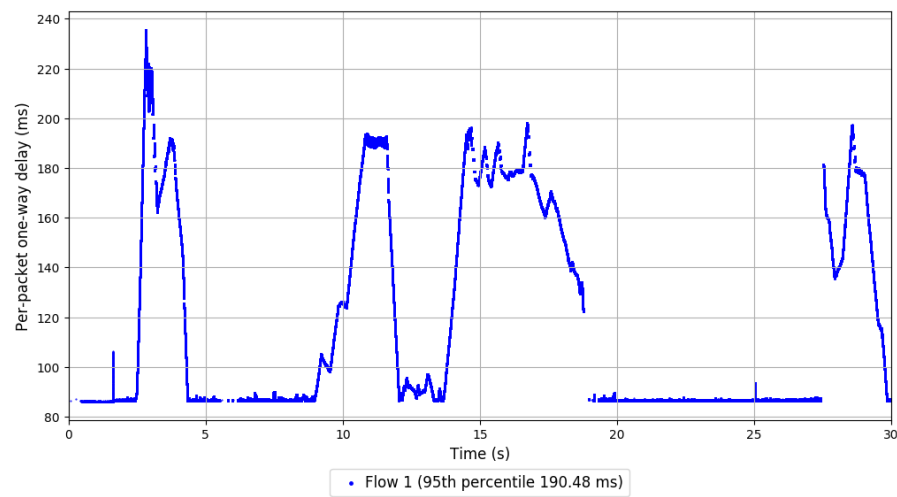
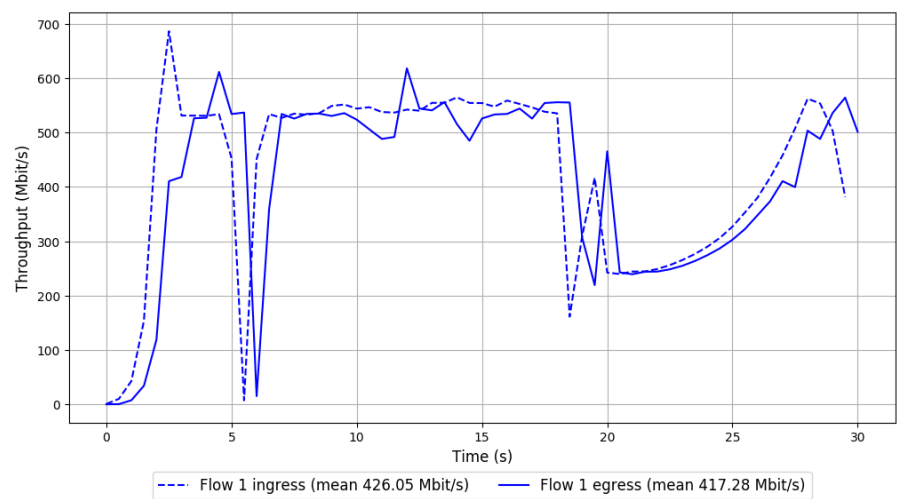
-- Flow 1:

Average throughput: 417.28 Mbit/s

95th percentile per-packet one-way delay: 190.476 ms

Loss rate: 2.06%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-27 07:54:12

End at: 2018-08-27 07:54:42

Local clock offset: 2.466 ms

Remote clock offset: 3.632 ms

Below is generated by plot.py at 2018-08-27 13:03:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 424.91 Mbit/s

95th percentile per-packet one-way delay: 173.374 ms

Loss rate: 0.17%

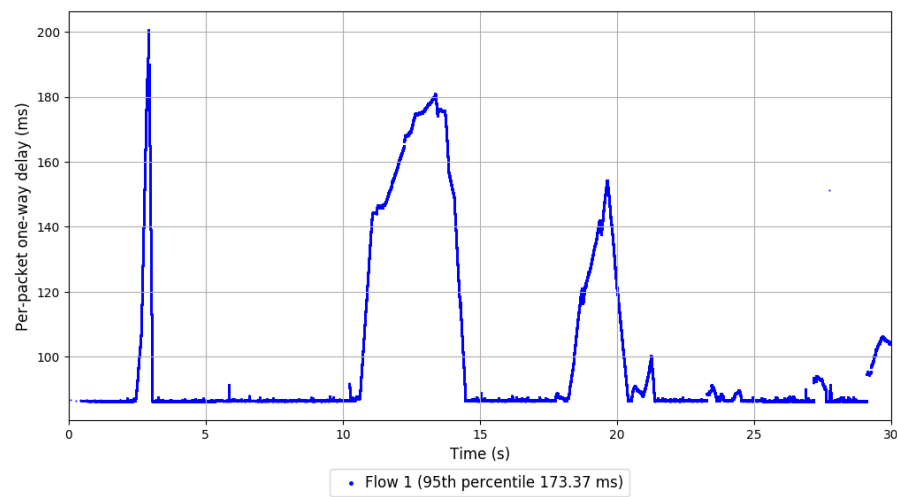
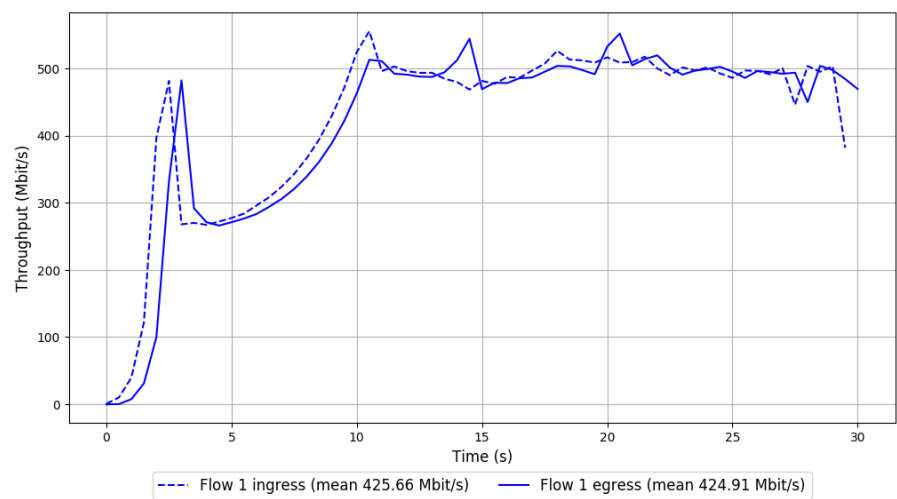
-- Flow 1:

Average throughput: 424.91 Mbit/s

95th percentile per-packet one-way delay: 173.374 ms

Loss rate: 0.17%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-27 08:18:25

End at: 2018-08-27 08:18:55

Local clock offset: 0.999 ms

Remote clock offset: 2.406 ms

Below is generated by plot.py at 2018-08-27 13:03:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 452.94 Mbit/s

95th percentile per-packet one-way delay: 196.600 ms

Loss rate: 1.87%

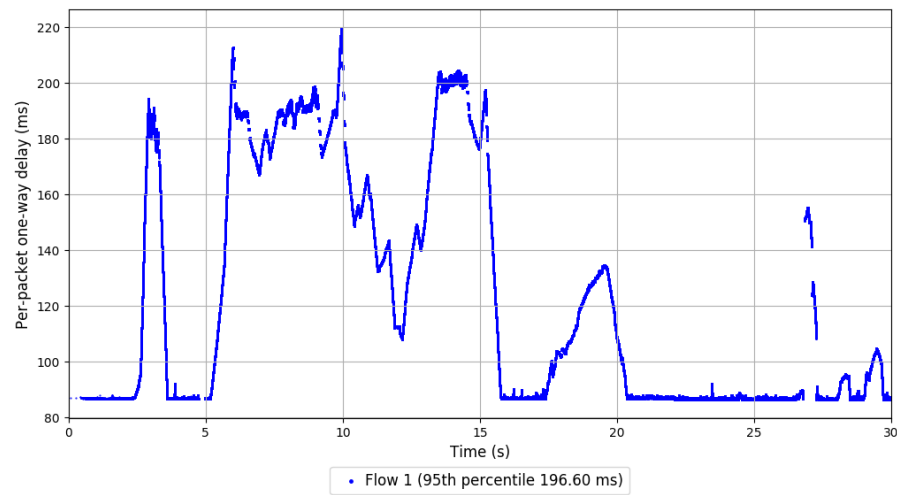
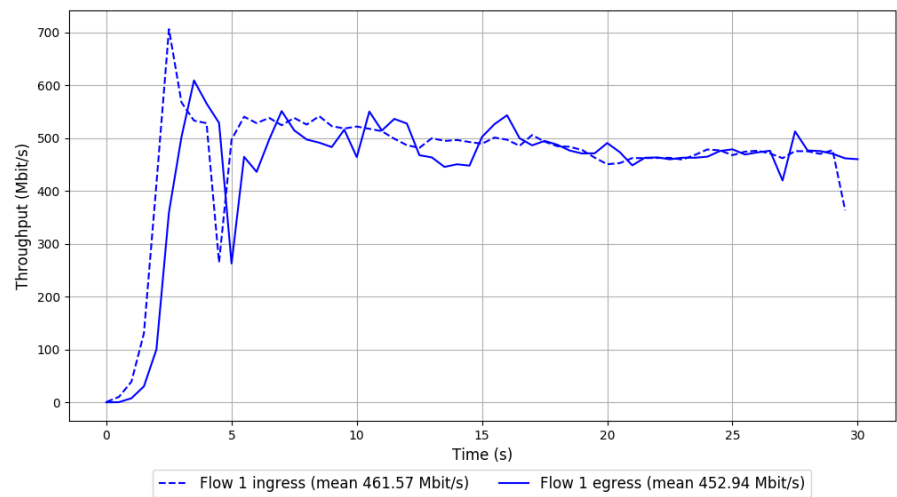
-- Flow 1:

Average throughput: 452.94 Mbit/s

95th percentile per-packet one-way delay: 196.600 ms

Loss rate: 1.87%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-08-27 08:42:32

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

Local clock offset: 1.09 ms

Remote clock offset: 1.014 ms

Below is generated by plot.py at 2018-08-27 13:04:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.80 Mbit/s

95th percentile per-packet one-way delay: 192.809 ms

Loss rate: 1.84%

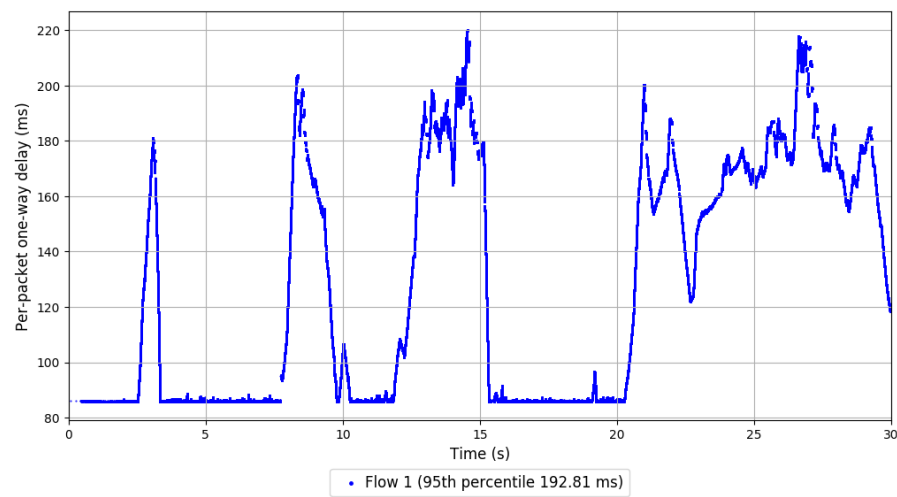
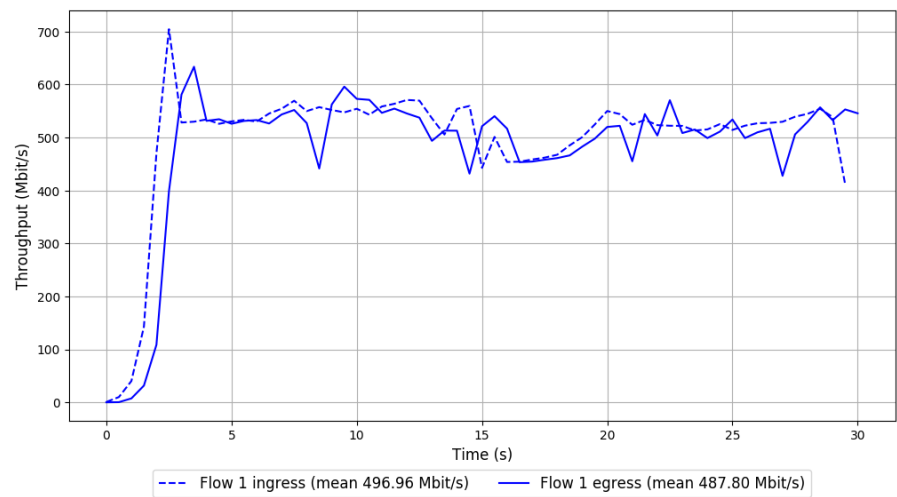
-- Flow 1:

Average throughput: 487.80 Mbit/s

95th percentile per-packet one-way delay: 192.809 ms

Loss rate: 1.84%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-27 09:07:01

End at: 2018-08-27 09:07:31

Local clock offset: 0.137 ms

Remote clock offset: 0.363 ms

Below is generated by plot.py at 2018-08-27 13:04:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.93 Mbit/s

95th percentile per-packet one-way delay: 191.765 ms

Loss rate: 2.02%

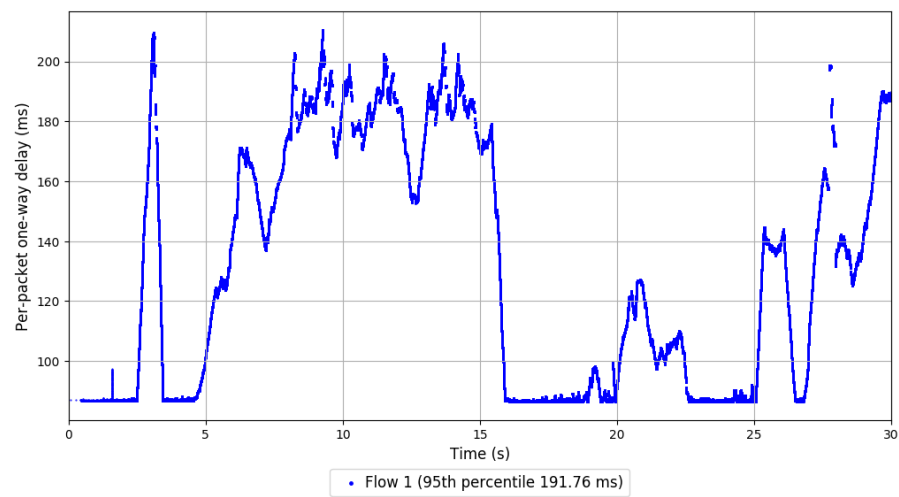
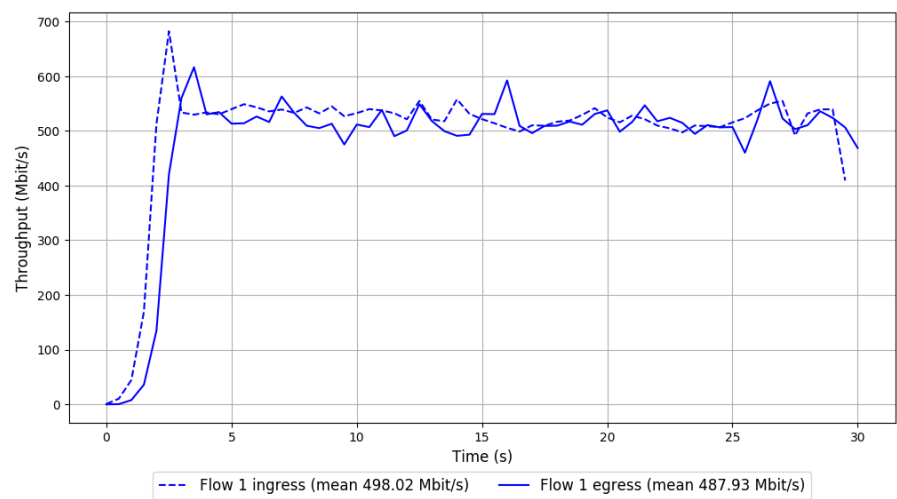
-- Flow 1:

Average throughput: 487.93 Mbit/s

95th percentile per-packet one-way delay: 191.765 ms

Loss rate: 2.02%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-27 09:31:28

End at: 2018-08-27 09:31:58

Local clock offset: 0.444 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-08-27 13:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.15 Mbit/s

95th percentile per-packet one-way delay: 186.111 ms

Loss rate: 1.24%

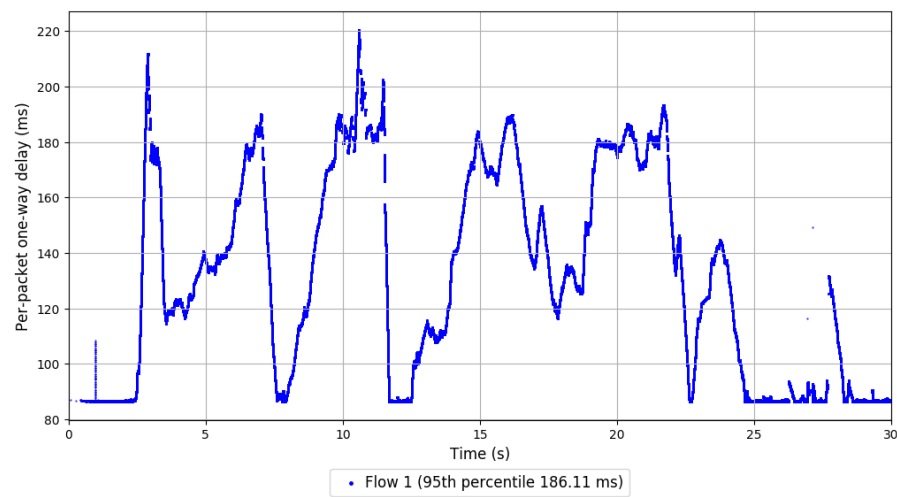
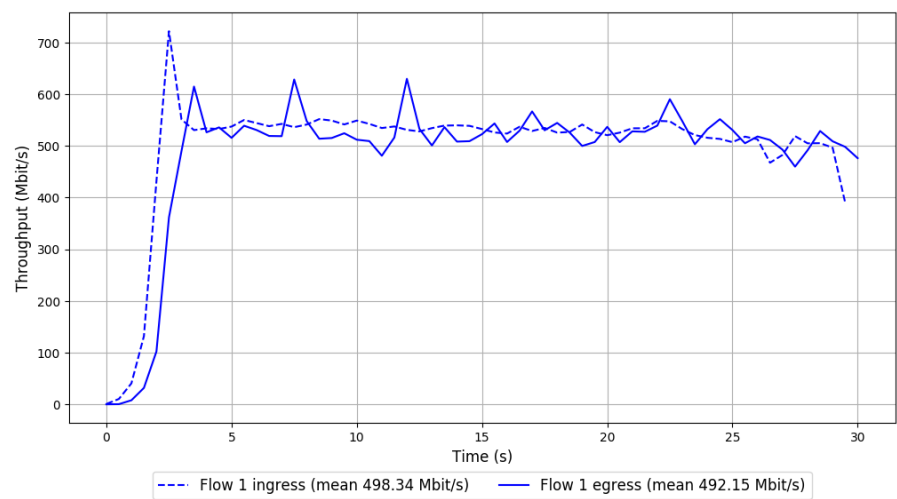
-- Flow 1:

Average throughput: 492.15 Mbit/s

95th percentile per-packet one-way delay: 186.111 ms

Loss rate: 1.24%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-27 09:55:52

End at: 2018-08-27 09:56:22

Local clock offset: 0.917 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-08-27 13:05:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 458.23 Mbit/s

95th percentile per-packet one-way delay: 196.702 ms

Loss rate: 3.38%

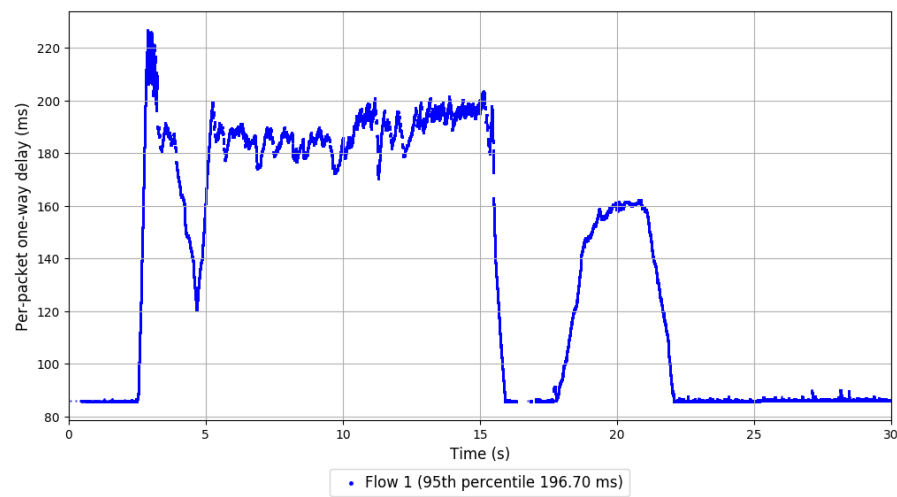
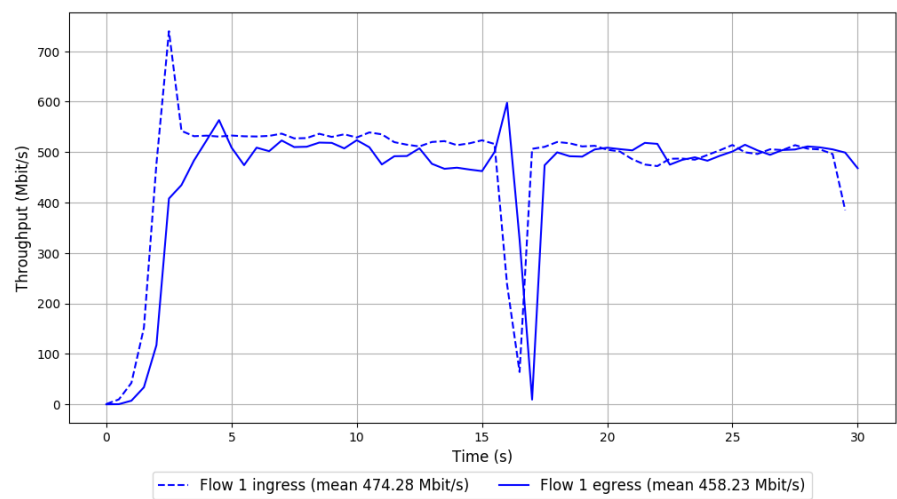
-- Flow 1:

Average throughput: 458.23 Mbit/s

95th percentile per-packet one-way delay: 196.702 ms

Loss rate: 3.38%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-27 10:20:10

End at: 2018-08-27 10:20:40

Local clock offset: -0.14 ms

Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-08-27 13:16:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 462.87 Mbit/s

95th percentile per-packet one-way delay: 196.494 ms

Loss rate: 2.72%

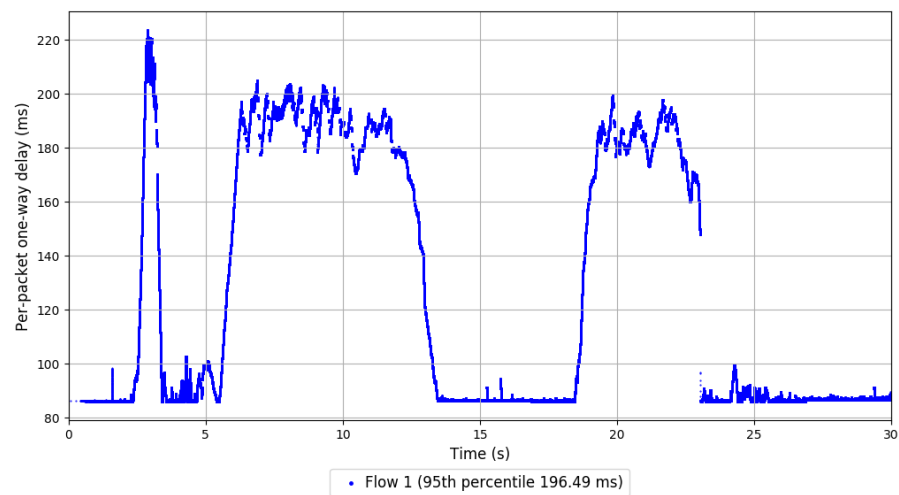
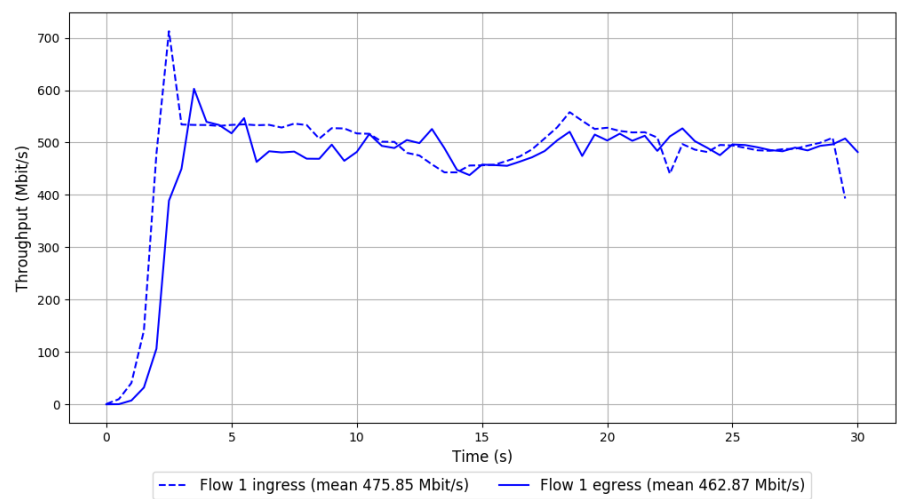
-- Flow 1:

Average throughput: 462.87 Mbit/s

95th percentile per-packet one-way delay: 196.494 ms

Loss rate: 2.72%

Run 9: Report of PCC-Allegro — Data Link

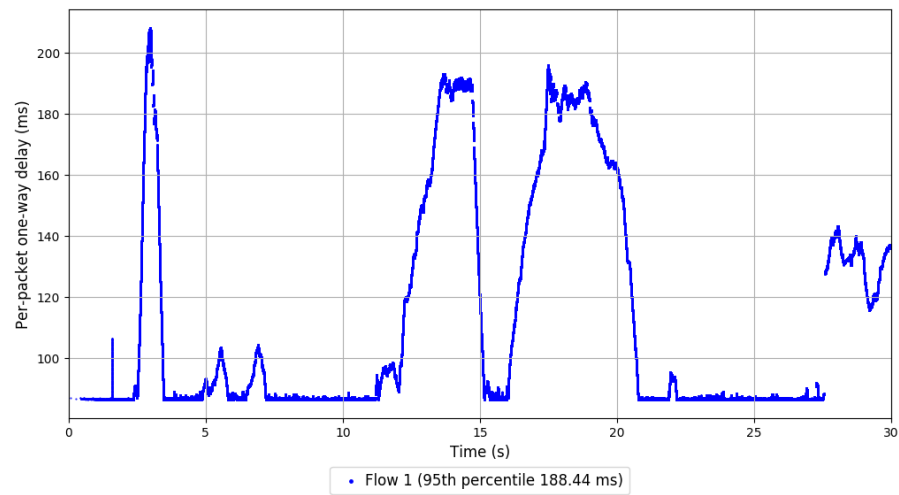
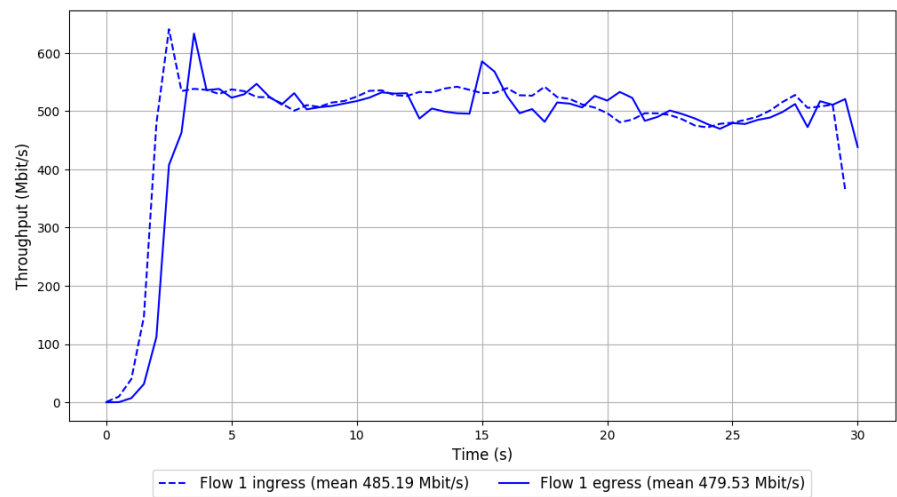


Run 10: Statistics of PCC-Allegro

Start at: 2018-08-27 10:44:36
End at: 2018-08-27 10:45:06
Local clock offset: -0.311 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-08-27 13:17:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 479.53 Mbit/s
95th percentile per-packet one-way delay: 188.439 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 479.53 Mbit/s
95th percentile per-packet one-way delay: 188.439 ms
Loss rate: 1.16%

Run 10: Report of PCC-Allegro — Data Link

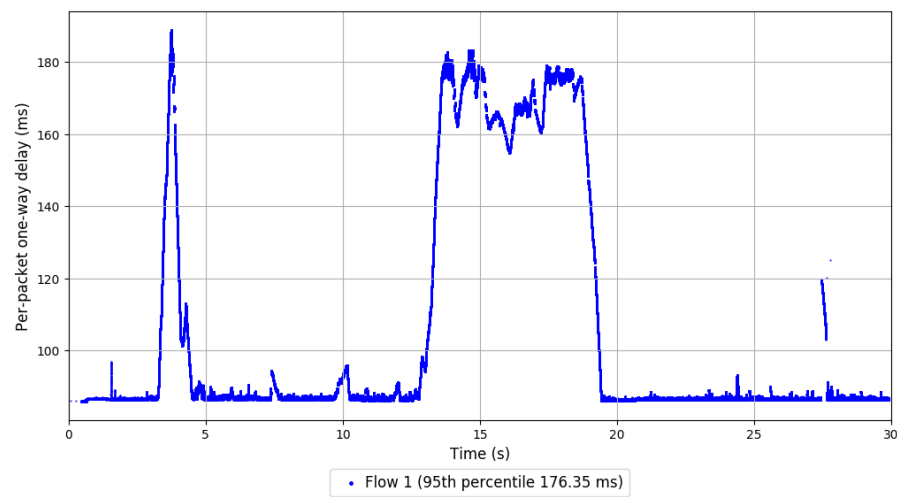
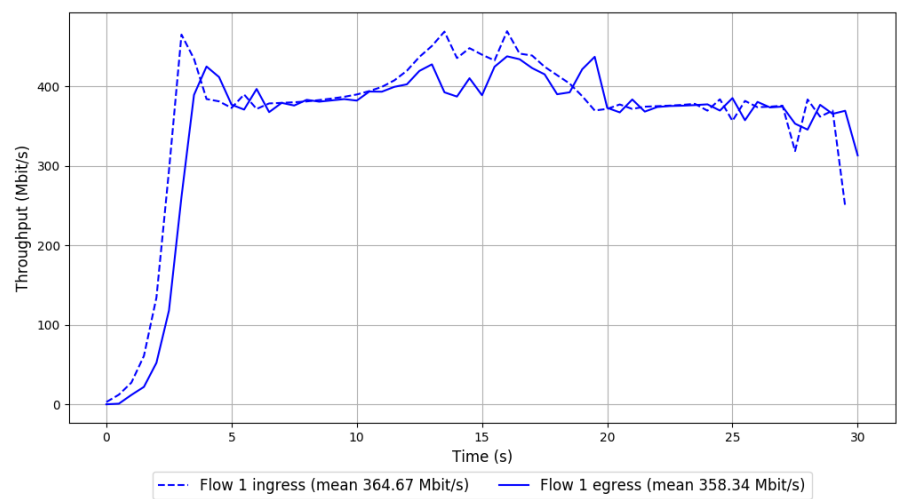


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-27 07:16:37
End at: 2018-08-27 07:17:07
Local clock offset: 8.31 ms
Remote clock offset: 8.23 ms

# Below is generated by plot.py at 2018-08-27 13:17:28
# Datalink statistics
-- Total of 1 flow:
Average throughput: 358.34 Mbit/s
95th percentile per-packet one-way delay: 176.350 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 358.34 Mbit/s
95th percentile per-packet one-way delay: 176.350 ms
Loss rate: 1.74%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-08-27 07:40:50

End at: 2018-08-27 07:41:20

Local clock offset: 7.264 ms

Remote clock offset: 7.472 ms

Below is generated by plot.py at 2018-08-27 13:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.17 Mbit/s

95th percentile per-packet one-way delay: 154.136 ms

Loss rate: 0.54%

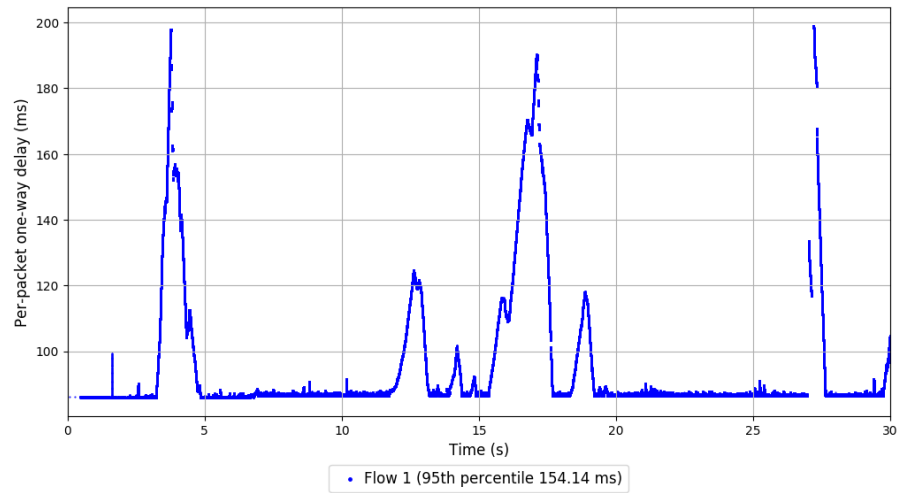
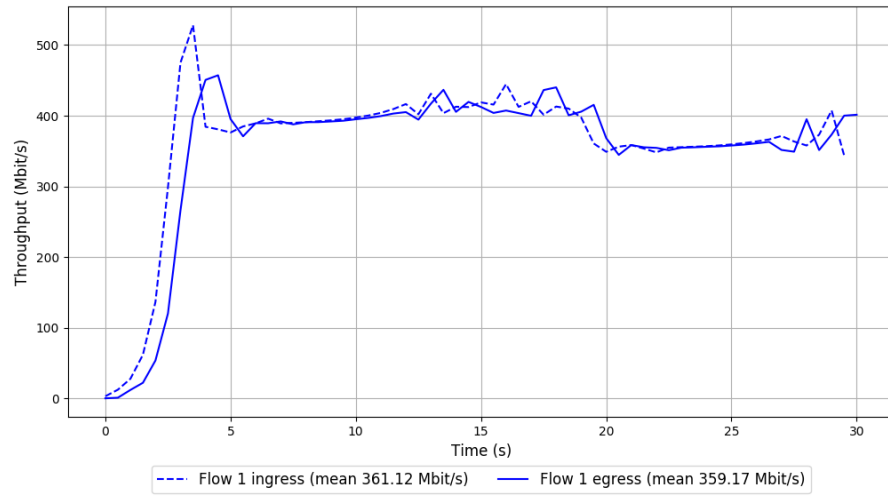
-- Flow 1:

Average throughput: 359.17 Mbit/s

95th percentile per-packet one-way delay: 154.136 ms

Loss rate: 0.54%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-27 08:05:17

End at: 2018-08-27 08:05:48

Local clock offset: 2.184 ms

Remote clock offset: 4.092 ms

Below is generated by plot.py at 2018-08-27 13:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 355.38 Mbit/s

95th percentile per-packet one-way delay: 181.690 ms

Loss rate: 3.70%

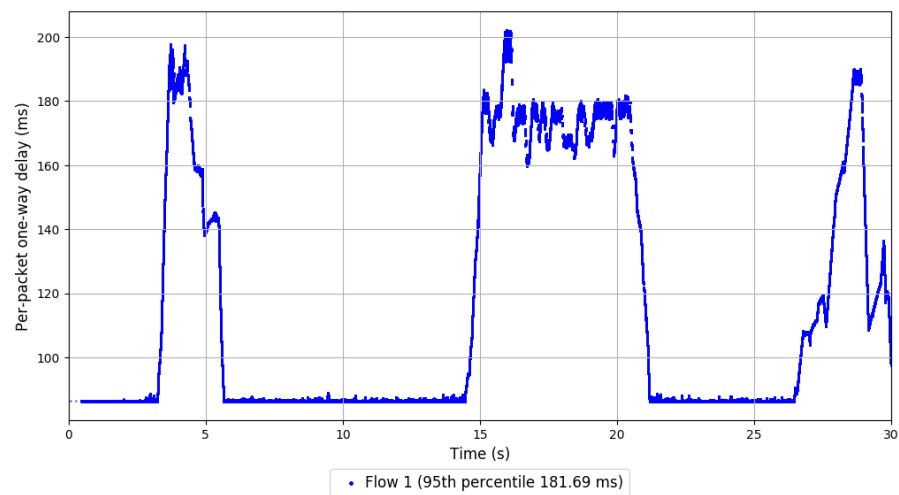
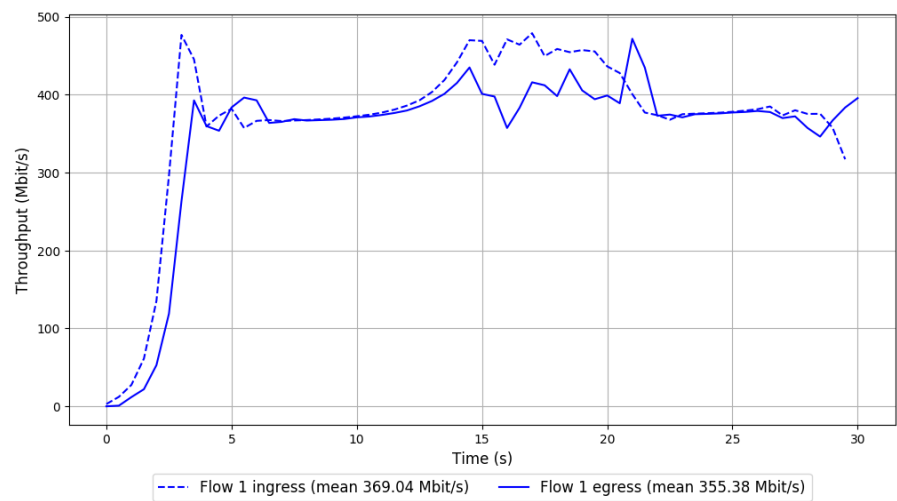
-- Flow 1:

Average throughput: 355.38 Mbit/s

95th percentile per-packet one-way delay: 181.690 ms

Loss rate: 3.70%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-08-27 08:29:32

End at: 2018-08-27 08:30:02

Local clock offset: 0.766 ms

Remote clock offset: 1.102 ms

Below is generated by plot.py at 2018-08-27 13:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 314.08 Mbit/s

95th percentile per-packet one-way delay: 176.788 ms

Loss rate: 4.59%

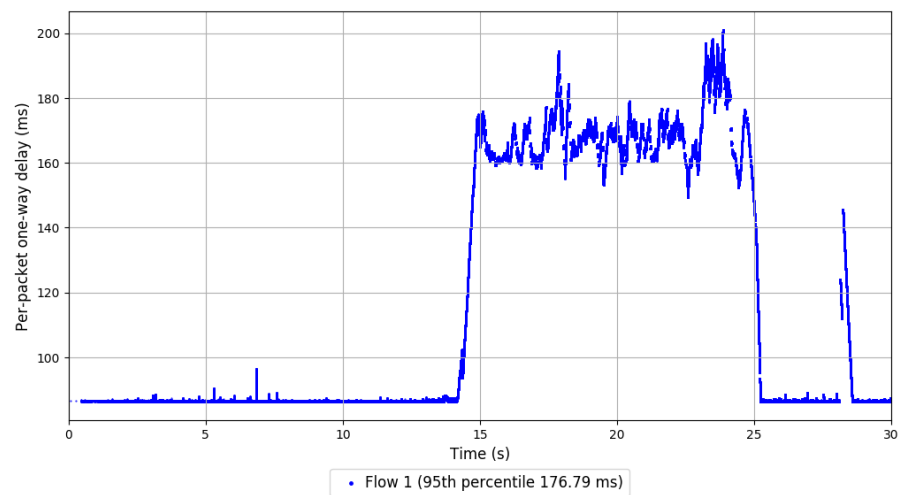
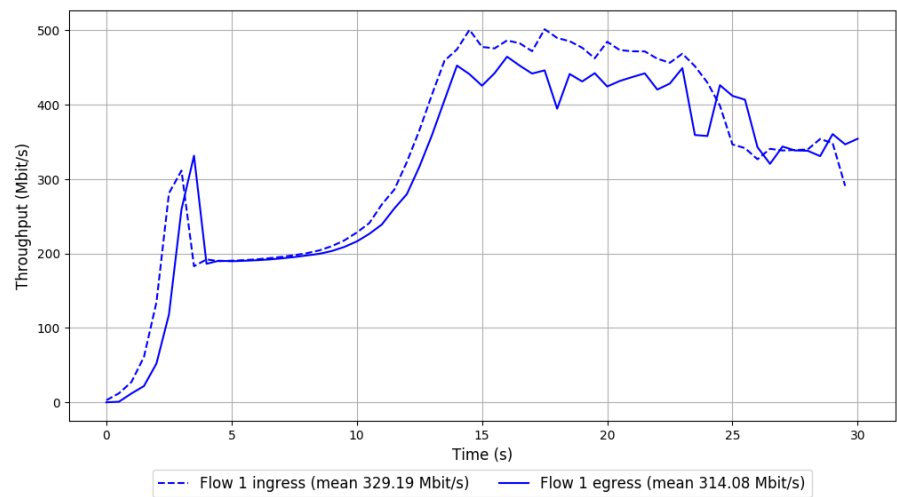
-- Flow 1:

Average throughput: 314.08 Mbit/s

95th percentile per-packet one-way delay: 176.788 ms

Loss rate: 4.59%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-27 08:53:50

End at: 2018-08-27 08:54:20

Local clock offset: 0.445 ms

Remote clock offset: 0.594 ms

Below is generated by plot.py at 2018-08-27 13:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.21 Mbit/s

95th percentile per-packet one-way delay: 134.584 ms

Loss rate: 0.26%

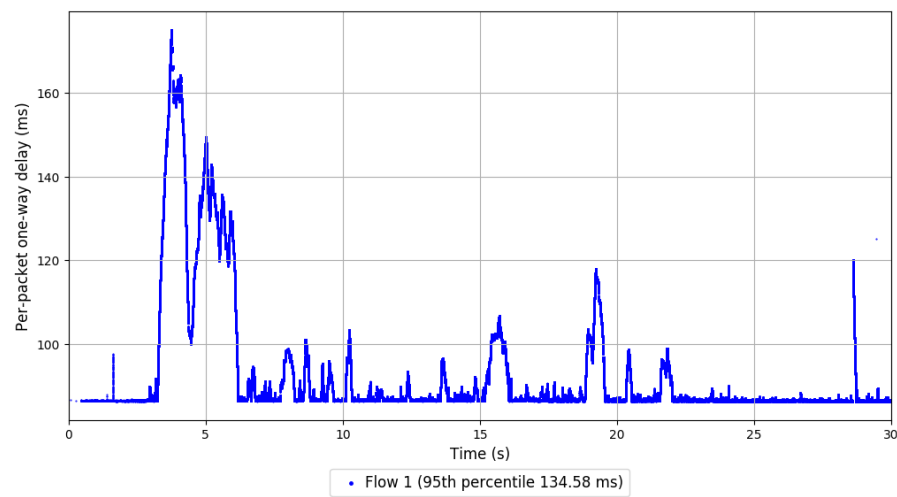
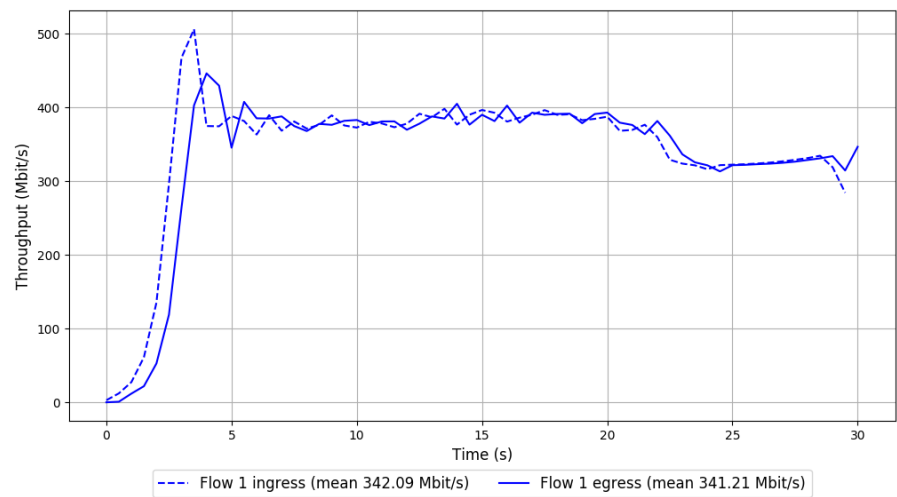
-- Flow 1:

Average throughput: 341.21 Mbit/s

95th percentile per-packet one-way delay: 134.584 ms

Loss rate: 0.26%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-08-27 09:18:20

End at: 2018-08-27 09:18:50

Local clock offset: 0.535 ms

Remote clock offset: 0.486 ms

Below is generated by plot.py at 2018-08-27 13:17:28

Datalink statistics

-- Total of 1 flow:

Average throughput: 334.89 Mbit/s

95th percentile per-packet one-way delay: 177.465 ms

Loss rate: 0.85%

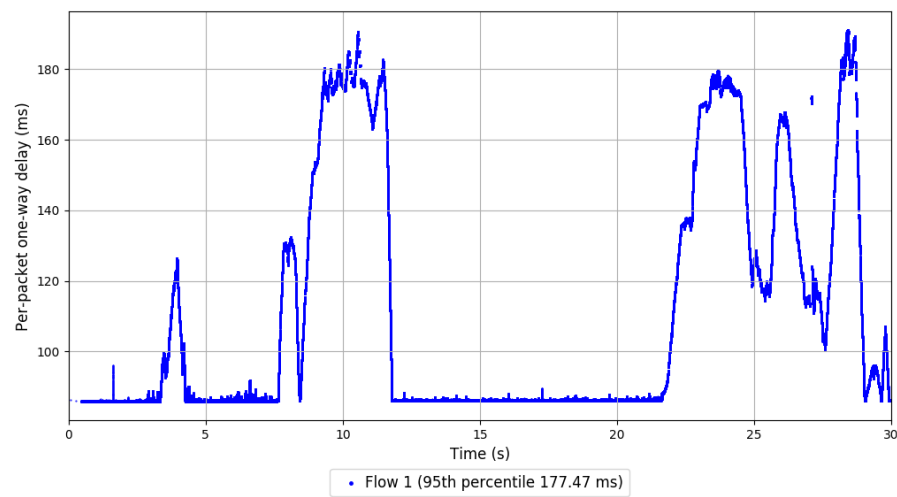
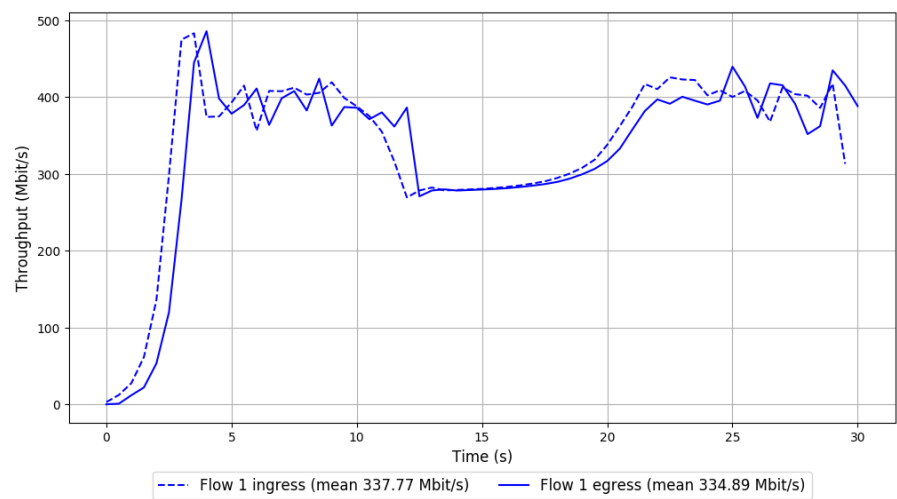
-- Flow 1:

Average throughput: 334.89 Mbit/s

95th percentile per-packet one-way delay: 177.465 ms

Loss rate: 0.85%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-08-27 09:42:37

End at: 2018-08-27 09:43:07

Local clock offset: 0.627 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-08-27 13:26:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.07 Mbit/s

95th percentile per-packet one-way delay: 166.020 ms

Loss rate: 0.81%

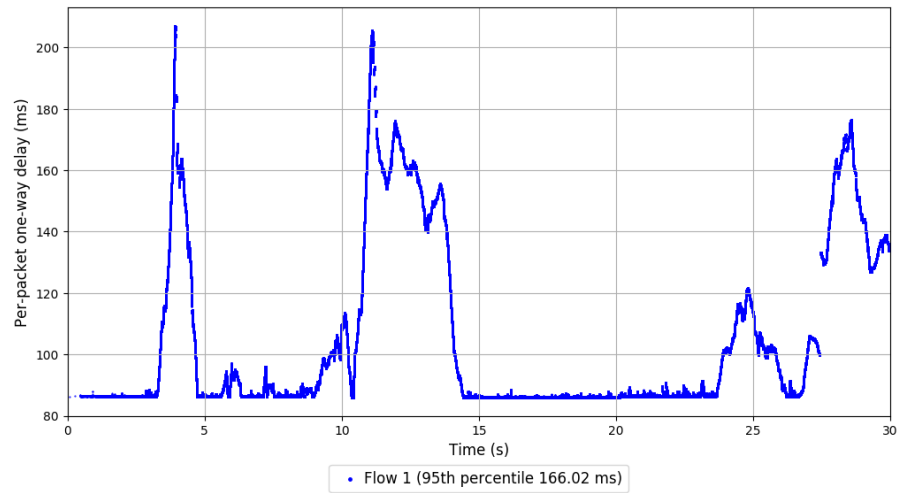
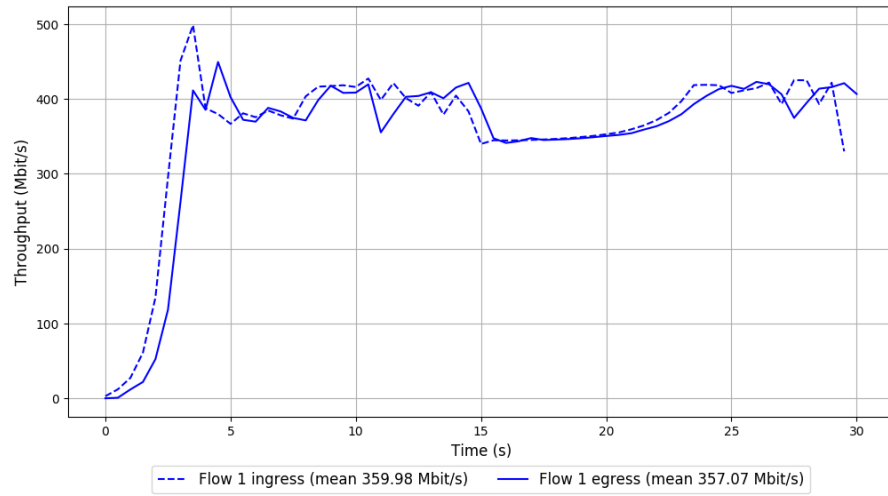
-- Flow 1:

Average throughput: 357.07 Mbit/s

95th percentile per-packet one-way delay: 166.020 ms

Loss rate: 0.81%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-27 10:06:58

End at: 2018-08-27 10:07:28

Local clock offset: 0.035 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-08-27 13:26:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 343.83 Mbit/s

95th percentile per-packet one-way delay: 181.742 ms

Loss rate: 1.00%

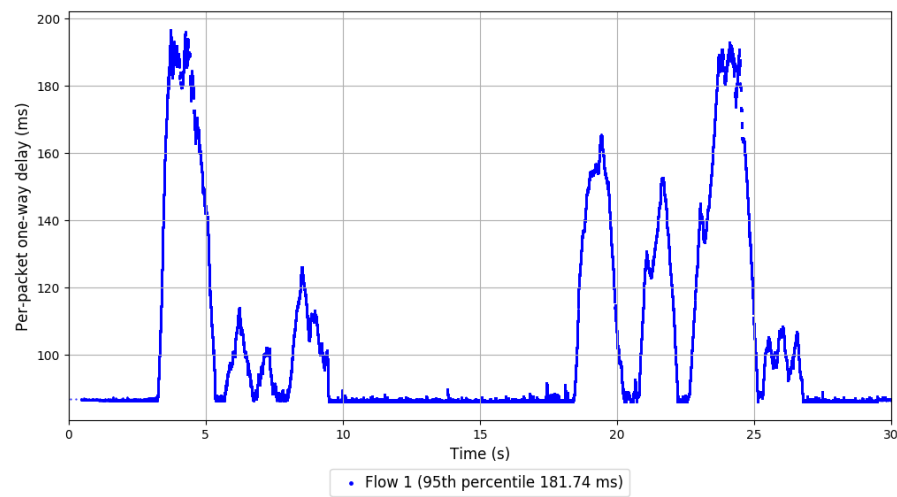
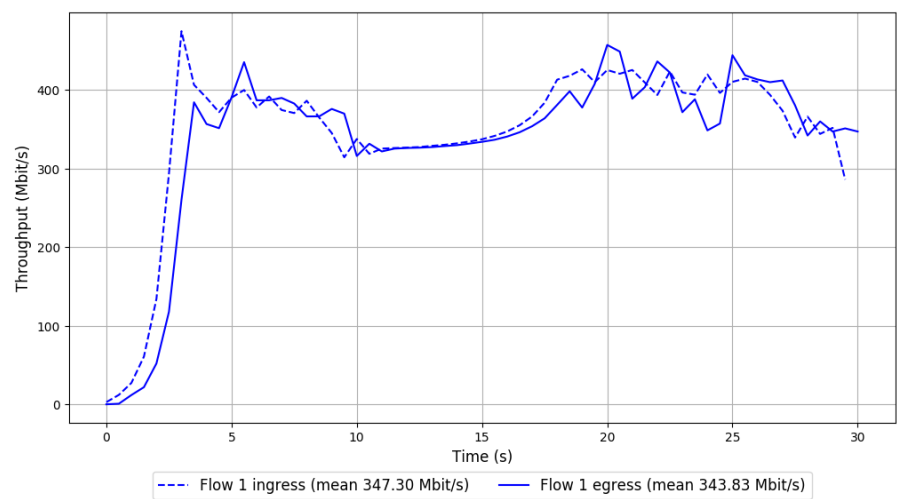
-- Flow 1:

Average throughput: 343.83 Mbit/s

95th percentile per-packet one-way delay: 181.742 ms

Loss rate: 1.00%

Run 8: Report of PCC-Expr — Data Link

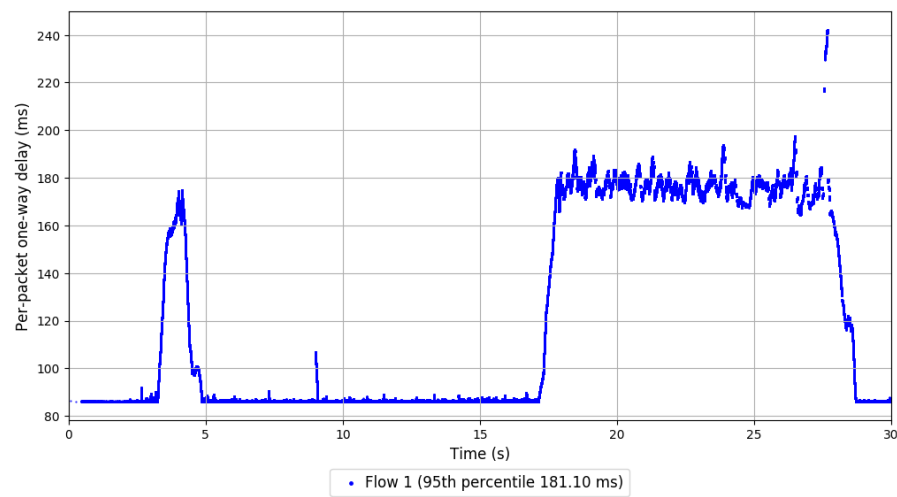
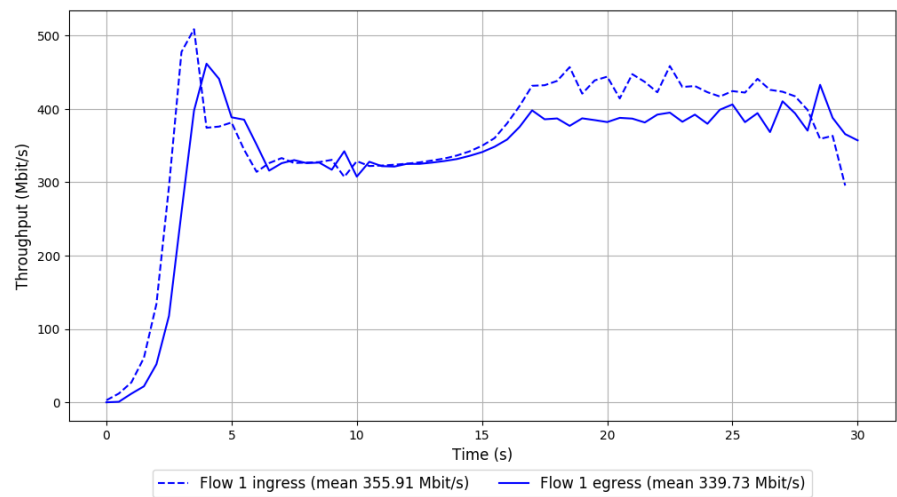


Run 9: Statistics of PCC-Expr

Start at: 2018-08-27 10:31:23
End at: 2018-08-27 10:31:53
Local clock offset: -0.007 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-08-27 13:26:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 339.73 Mbit/s
95th percentile per-packet one-way delay: 181.100 ms
Loss rate: 4.55%
-- Flow 1:
Average throughput: 339.73 Mbit/s
95th percentile per-packet one-way delay: 181.100 ms
Loss rate: 4.55%

Run 9: Report of PCC-Expr — Data Link

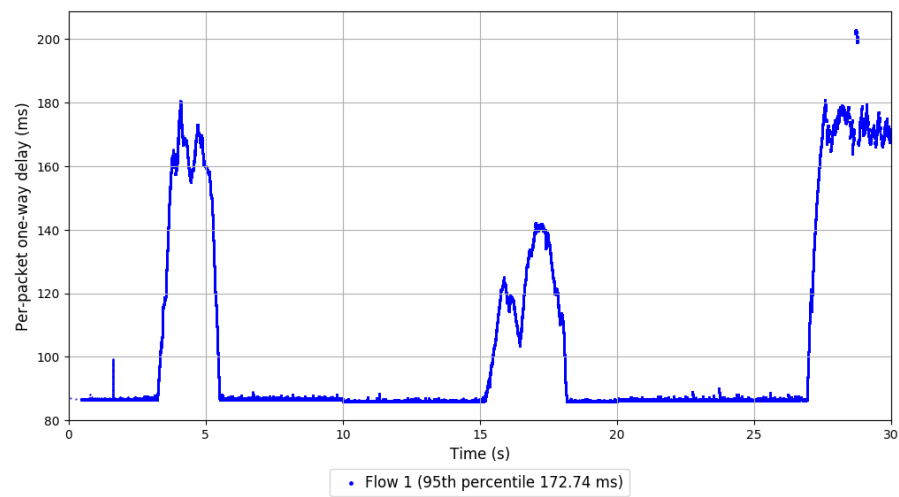
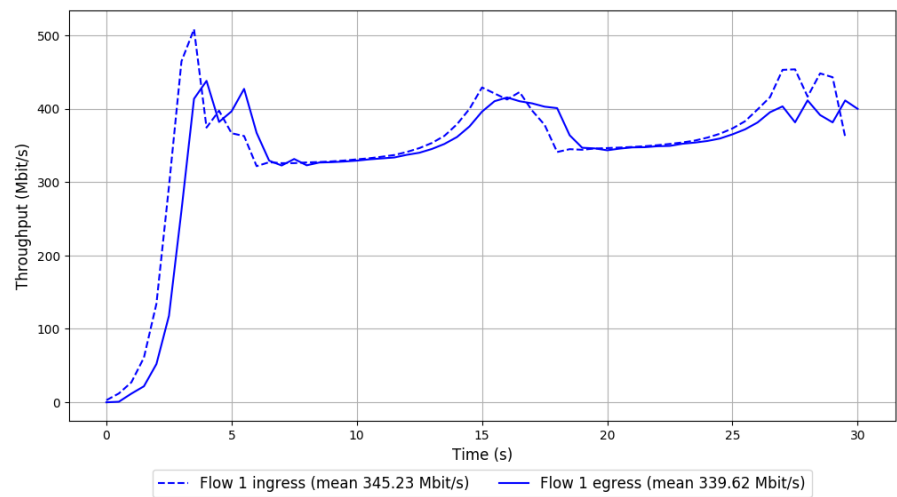


Run 10: Statistics of PCC-Expr

Start at: 2018-08-27 10:55:57
End at: 2018-08-27 10:56:27
Local clock offset: -0.095 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-08-27 13:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 339.62 Mbit/s
95th percentile per-packet one-way delay: 172.738 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 339.62 Mbit/s
95th percentile per-packet one-way delay: 172.738 ms
Loss rate: 1.63%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

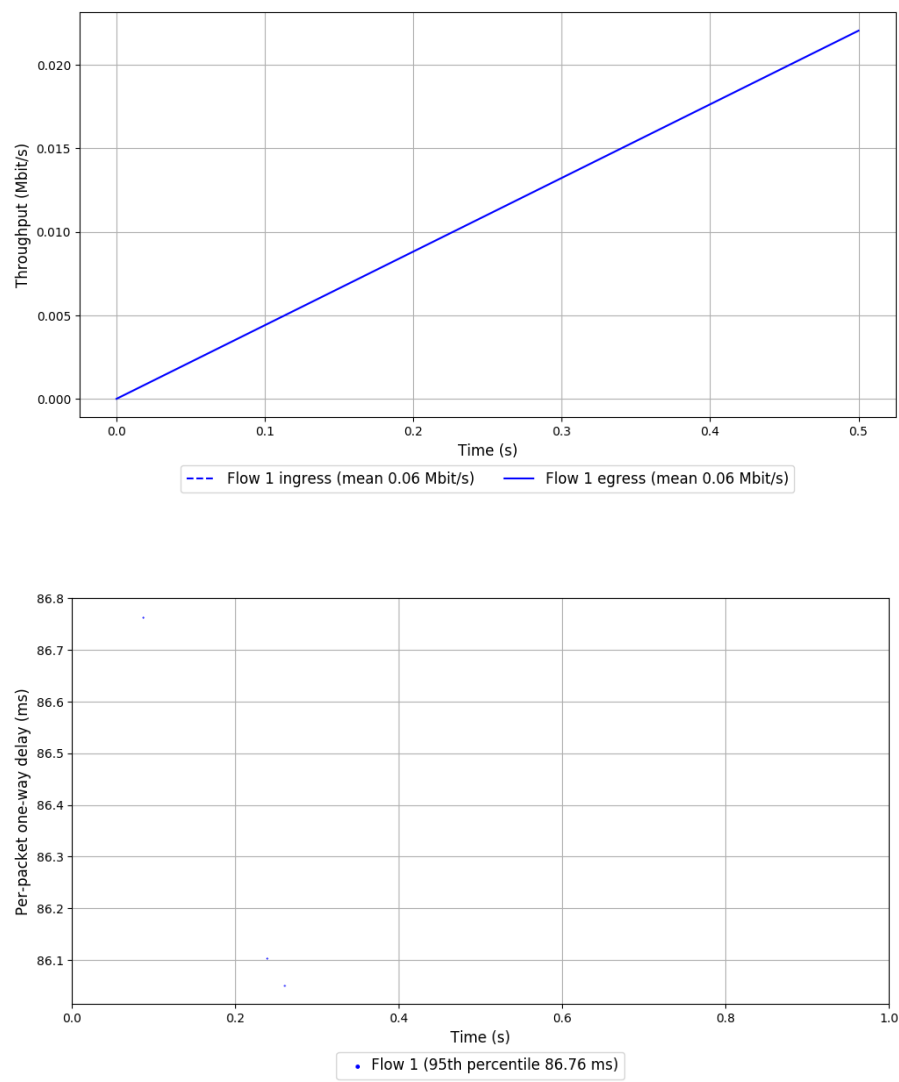
Start at: 2018-08-27 07:19:54

End at: 2018-08-27 07:20:24

Local clock offset: 7.573 ms

Remote clock offset: 7.696 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-08-27 07:44:14

End at: 2018-08-27 07:44:44

Local clock offset: 4.868 ms

Remote clock offset: 5.538 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.08 Mbit/s

95th percentile per-packet one-way delay: 86.484 ms

Loss rate: 0.00%

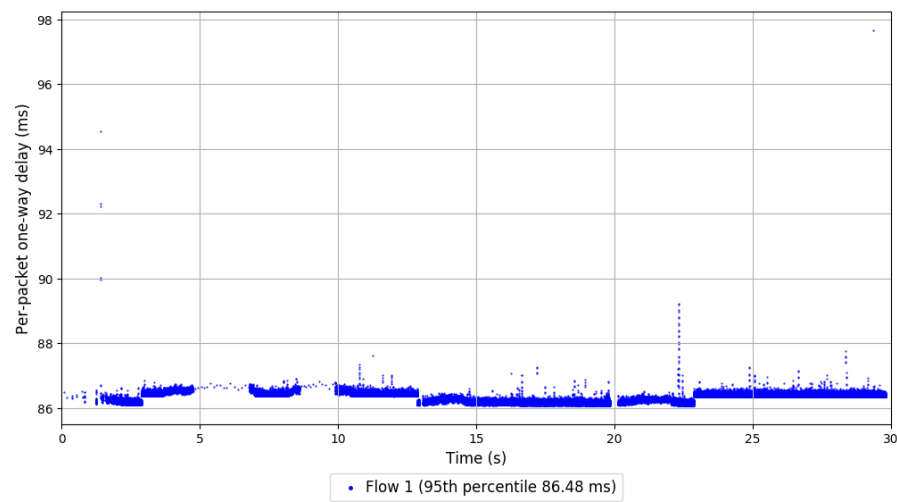
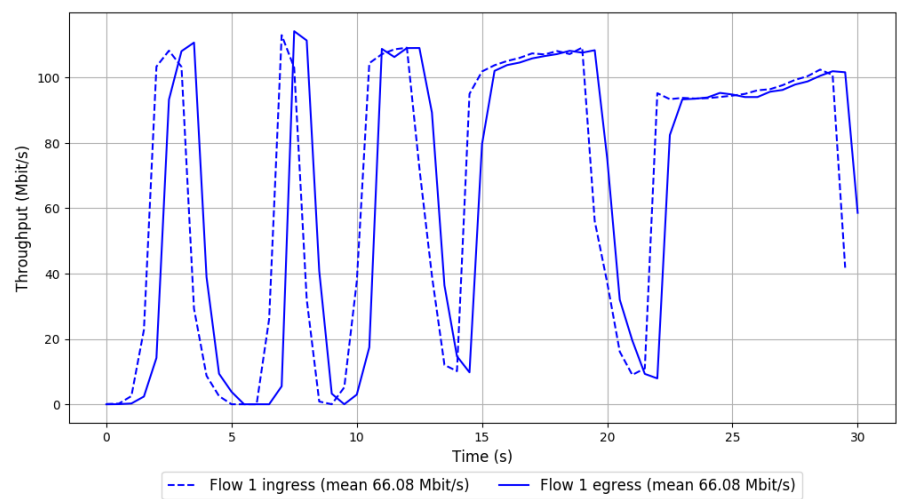
-- Flow 1:

Average throughput: 66.08 Mbit/s

95th percentile per-packet one-way delay: 86.484 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

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

Local clock offset: 1.902 ms

Remote clock offset: 4.352 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 86.591 ms

Loss rate: 0.00%

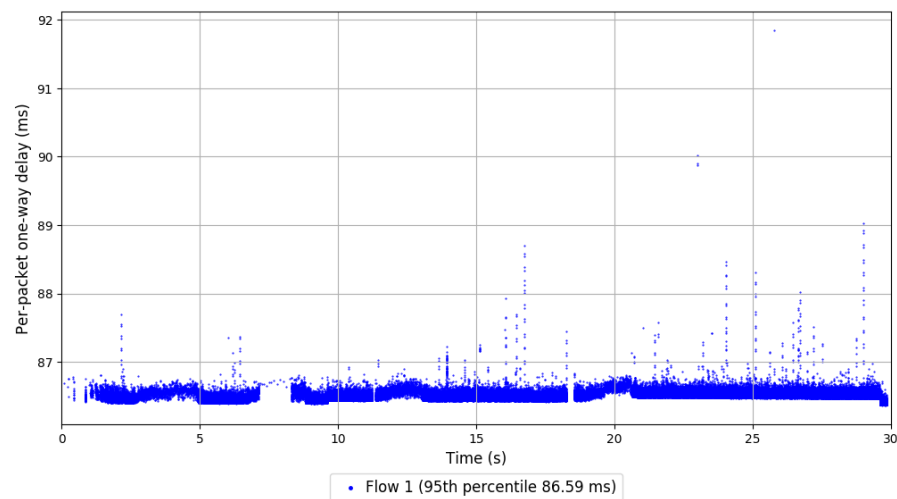
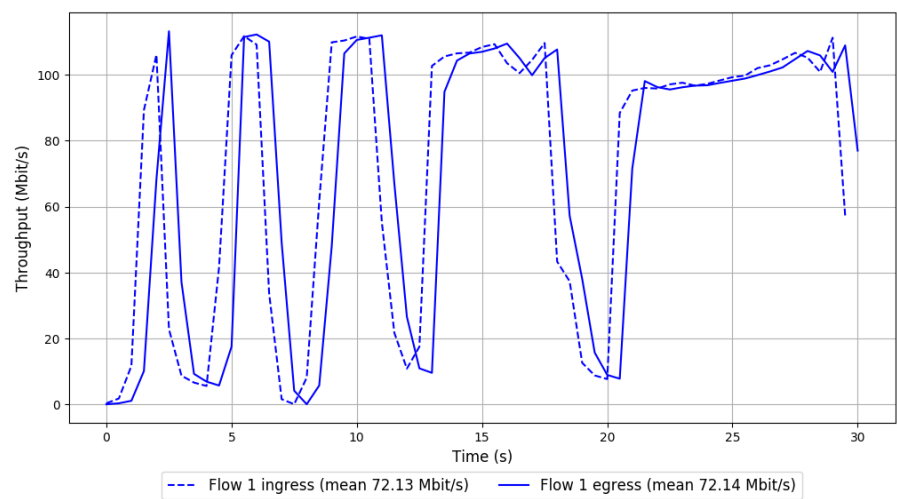
-- Flow 1:

Average throughput: 72.14 Mbit/s

95th percentile per-packet one-way delay: 86.591 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

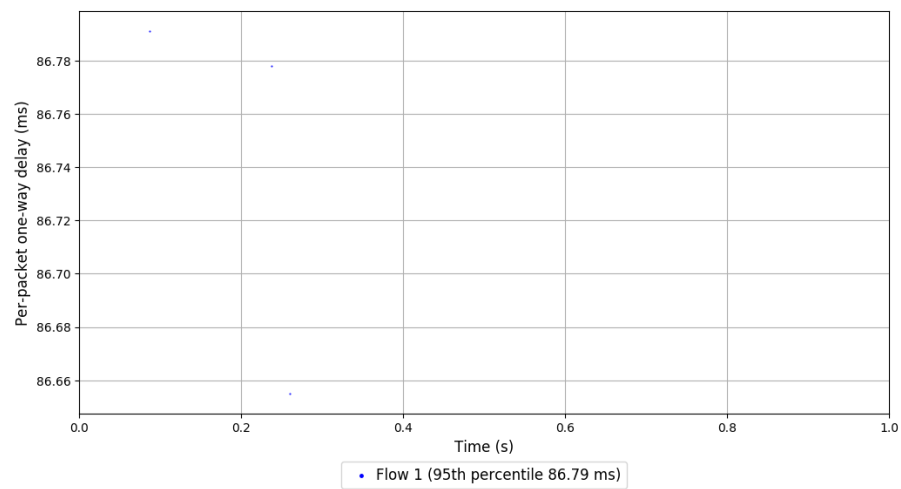
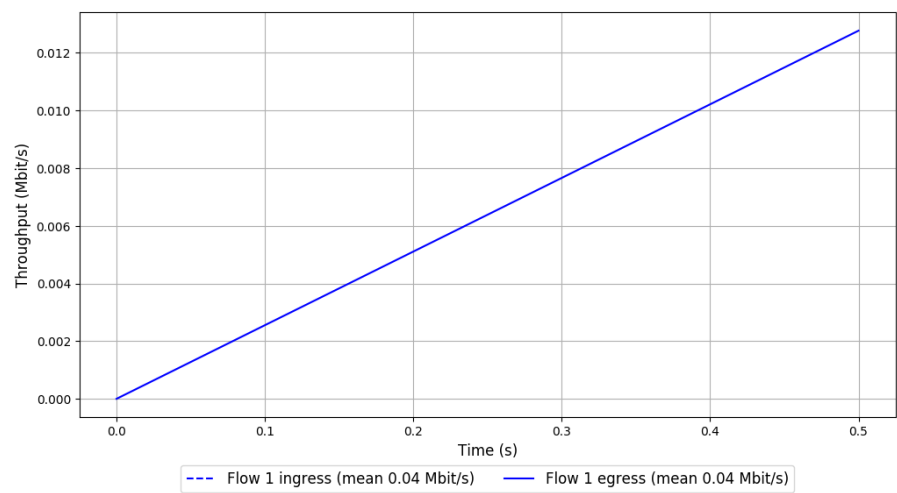
Start at: 2018-08-27 08:32:48

End at: 2018-08-27 08:33:18

Local clock offset: 0.702 ms

Remote clock offset: 1.02 ms

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-08-27 08:57:12

End at: 2018-08-27 08:57:42

Local clock offset: 0.345 ms

Remote clock offset: 0.427 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 86.522 ms

Loss rate: 0.00%

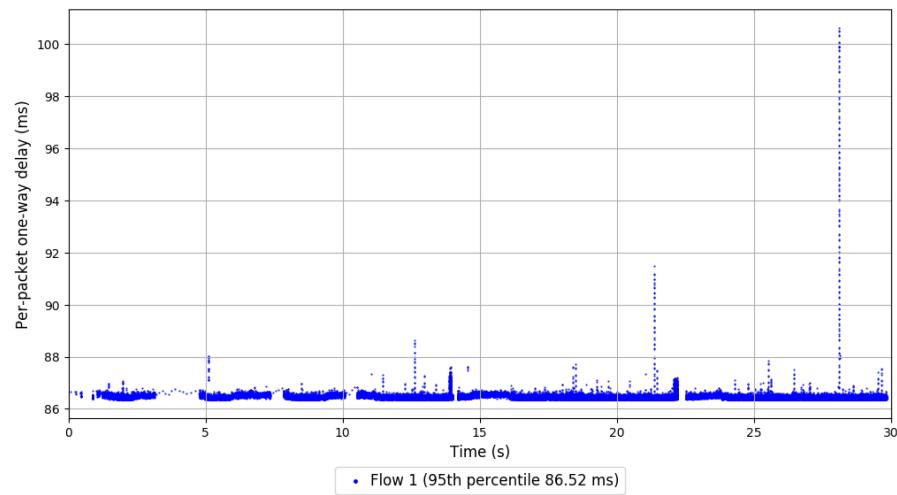
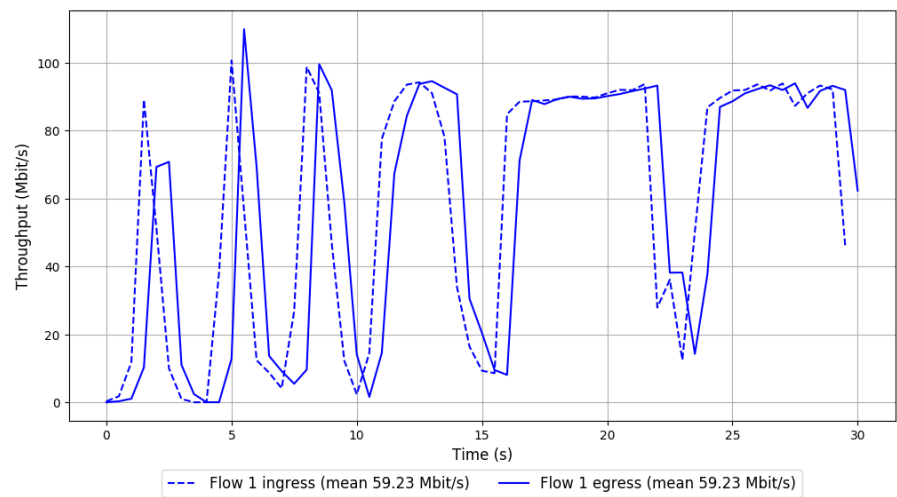
-- Flow 1:

Average throughput: 59.23 Mbit/s

95th percentile per-packet one-way delay: 86.522 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-08-27 09:21:38

End at: 2018-08-27 09:22:08

Local clock offset: 0.65 ms

Remote clock offset: 0.422 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.87 Mbit/s

95th percentile per-packet one-way delay: 86.149 ms

Loss rate: 0.00%

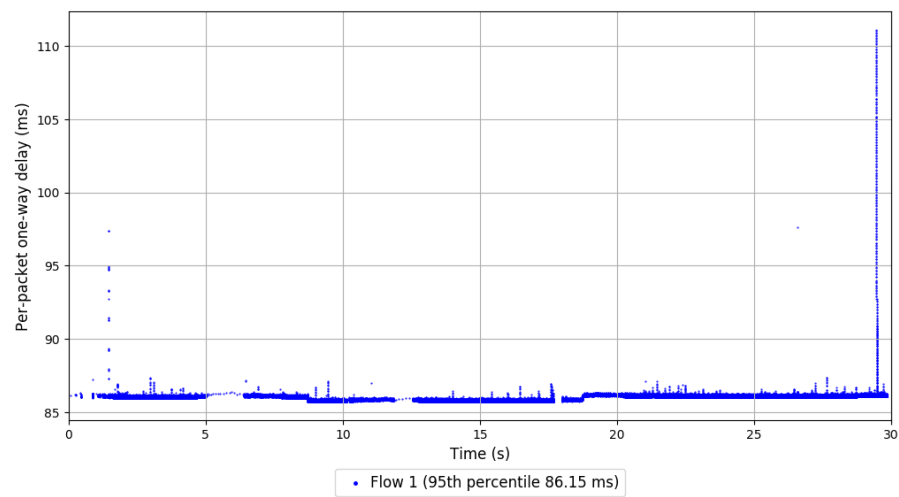
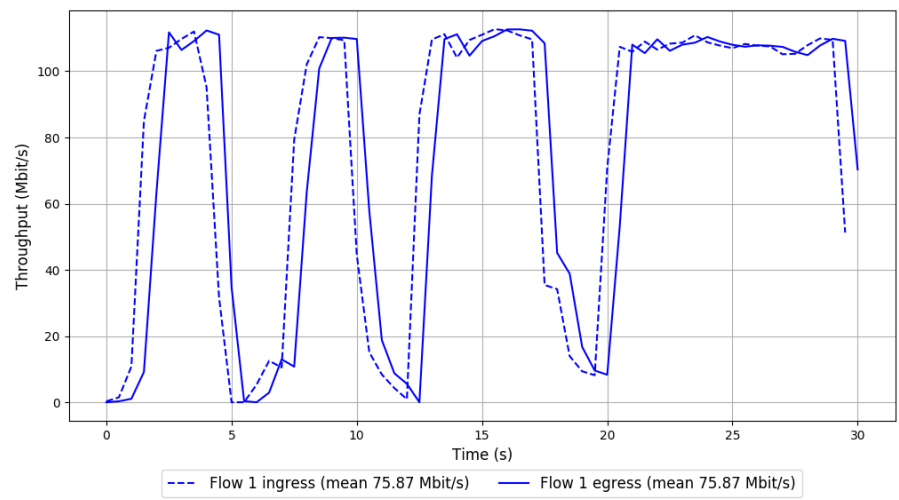
-- Flow 1:

Average throughput: 75.87 Mbit/s

95th percentile per-packet one-way delay: 86.149 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

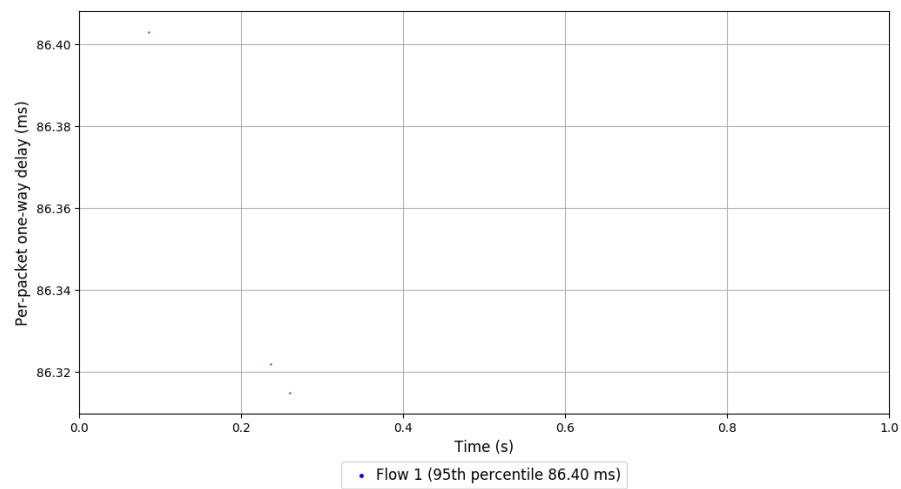
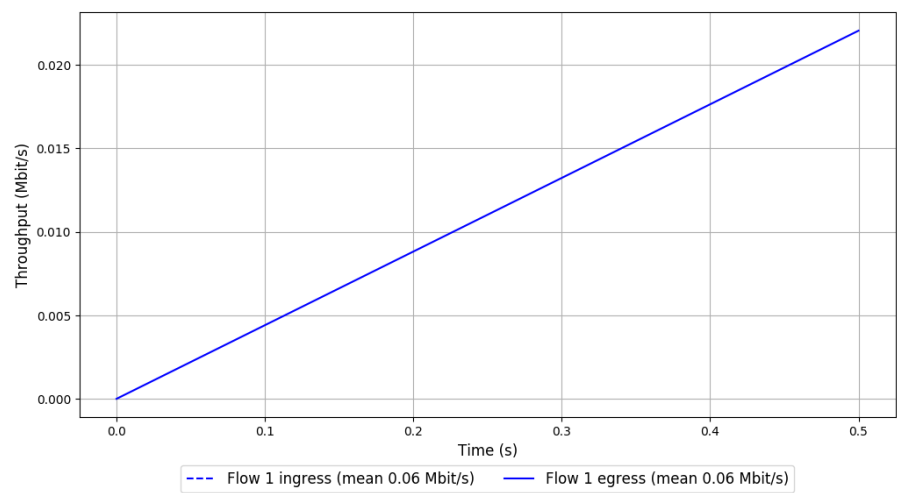
Start at: 2018-08-27 09:46:02

End at: 2018-08-27 09:46:32

Local clock offset: 0.839 ms

Remote clock offset: 0.157 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

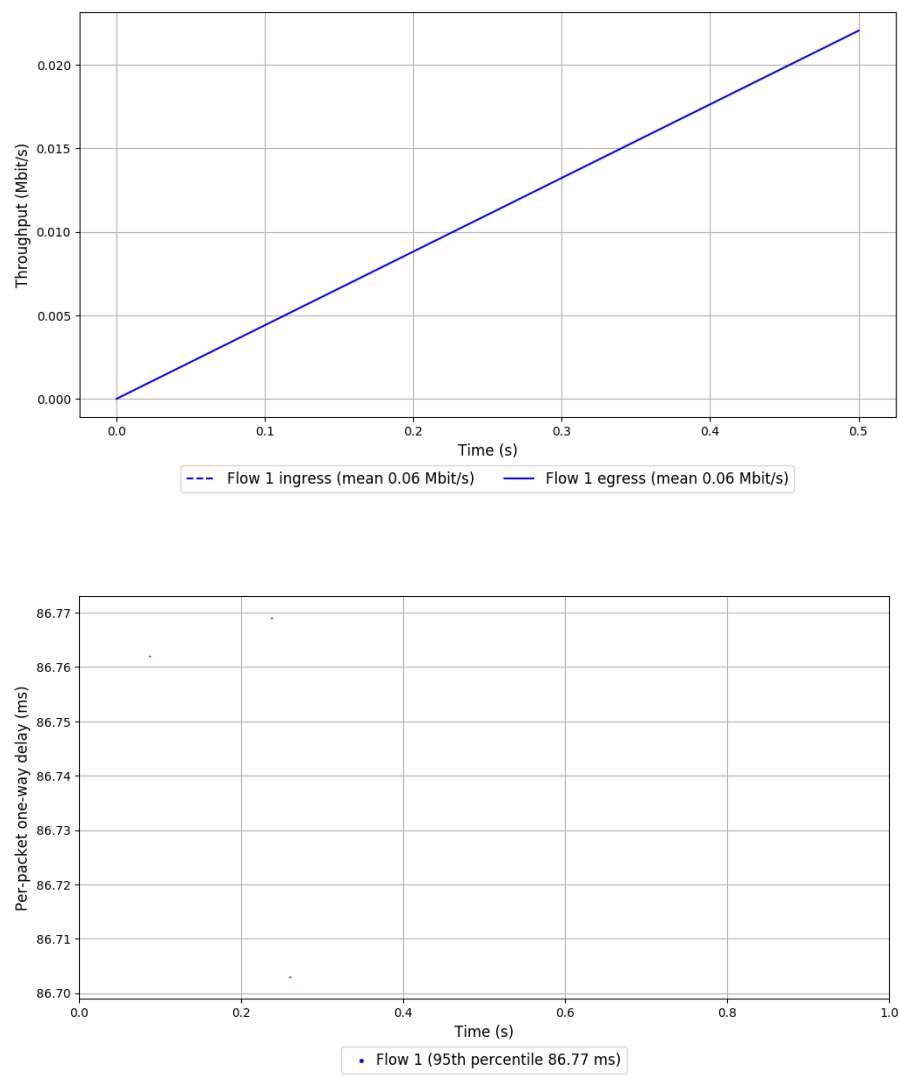
Start at: 2018-08-27 10:10:17

End at: 2018-08-27 10:10:47

Local clock offset: -0.177 ms

Remote clock offset: 0.002 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-08-27 10:34:44

End at: 2018-08-27 10:35:14

Local clock offset: 0.001 ms

Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 85.999 ms

Loss rate: 0.00%

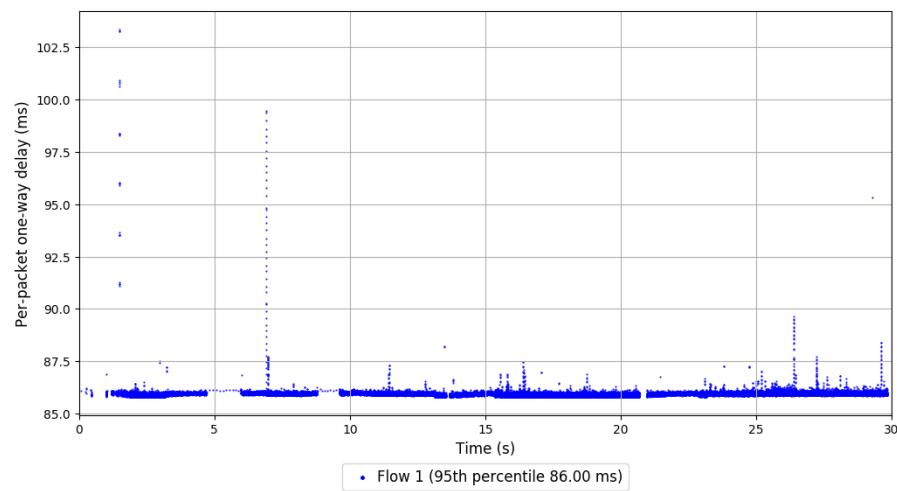
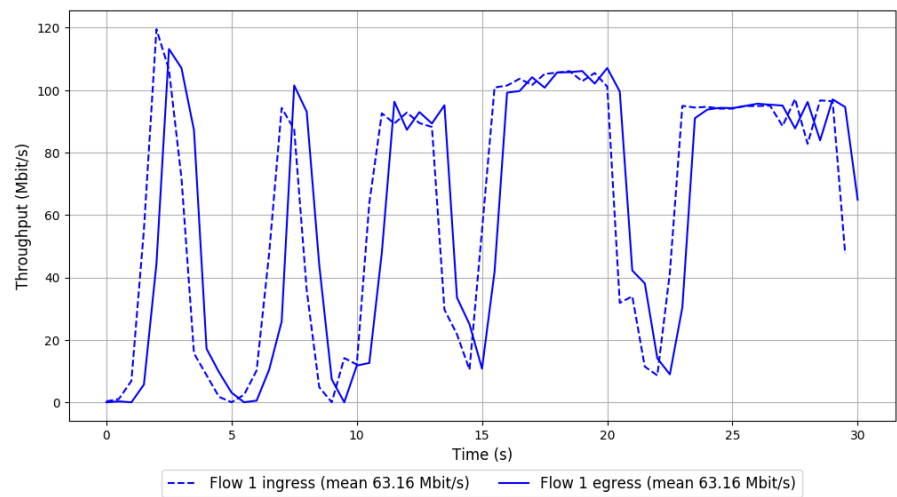
-- Flow 1:

Average throughput: 63.16 Mbit/s

95th percentile per-packet one-way delay: 85.999 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-27 10:59:17

End at: 2018-08-27 10:59:47

Local clock offset: 0.054 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 56.87 Mbit/s

95th percentile per-packet one-way delay: 86.371 ms

Loss rate: 0.00%

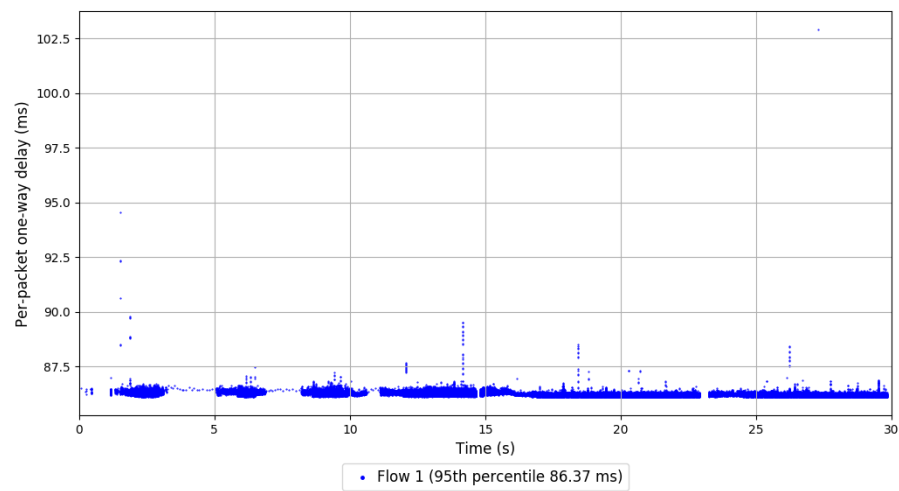
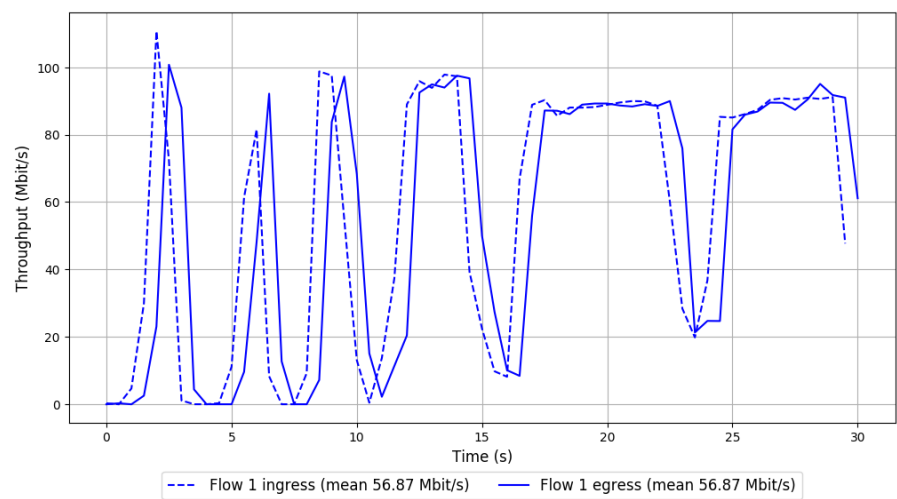
-- Flow 1:

Average throughput: 56.87 Mbit/s

95th percentile per-packet one-way delay: 86.371 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

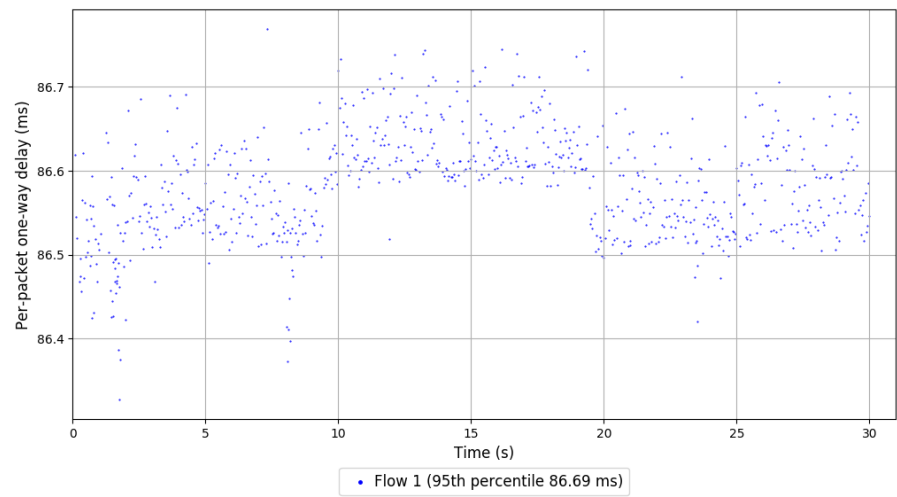
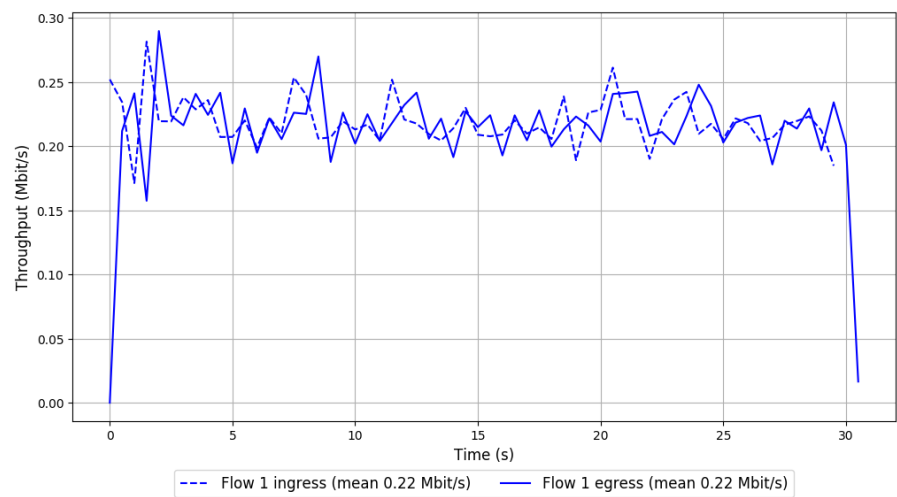


```
Run 1: Statistics of SCReAM

Start at: 2018-08-27 07:12:28
End at: 2018-08-27 07:12:58
Local clock offset: 9.774 ms
Remote clock offset: 9.989 ms

# Below is generated by plot.py at 2018-08-27 13:27:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.690 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.690 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-08-27 07:36:47

End at: 2018-08-27 07:37:17

Local clock offset: 9.421 ms

Remote clock offset: 9.758 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.789 ms

Loss rate: 0.00%

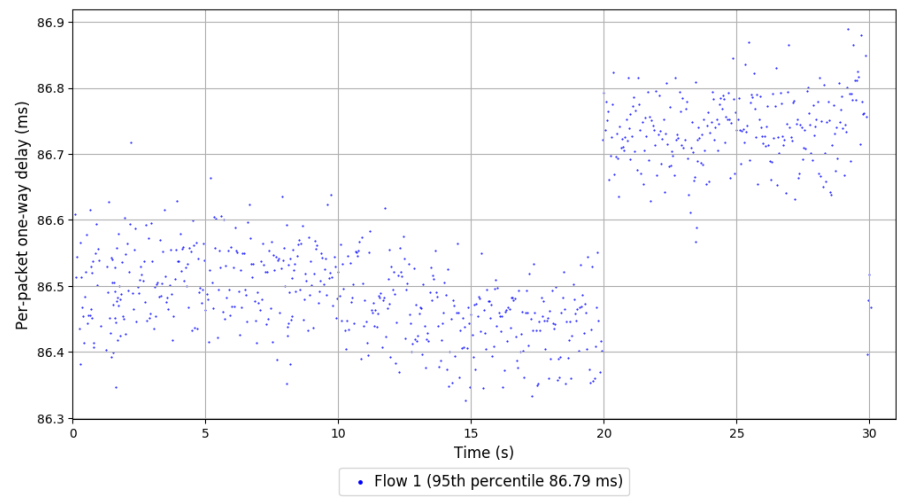
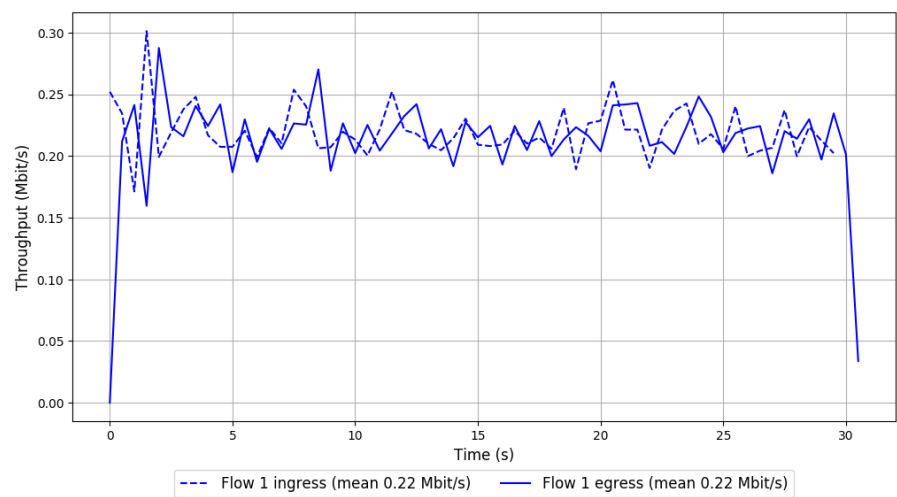
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.789 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-08-27 08:01:19

End at: 2018-08-27 08:01:49

Local clock offset: 2.275 ms

Remote clock offset: 3.784 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.00%

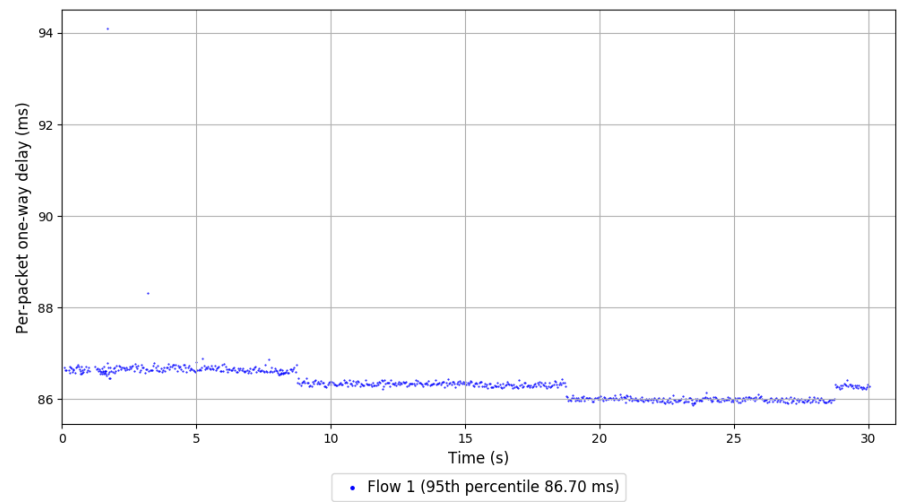
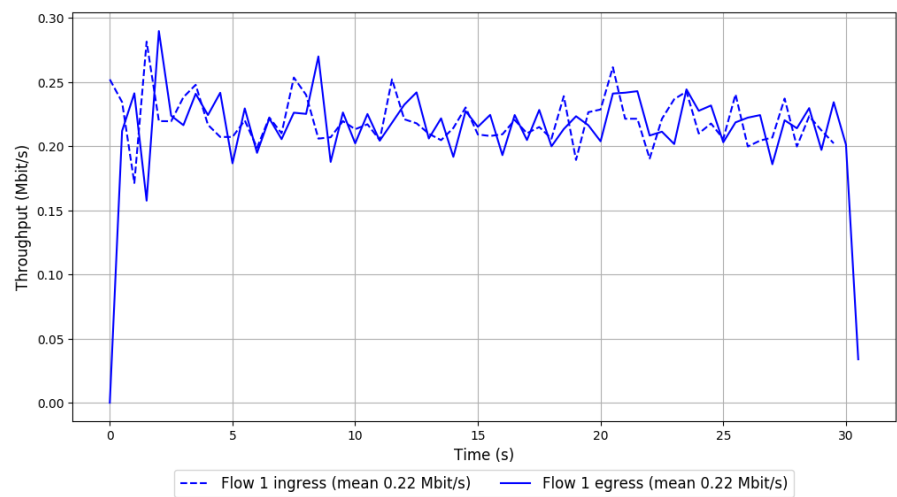
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.701 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

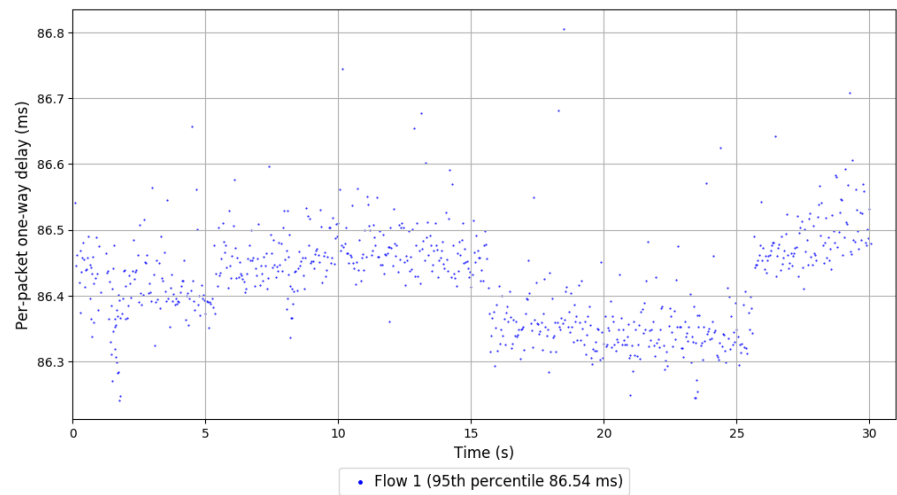
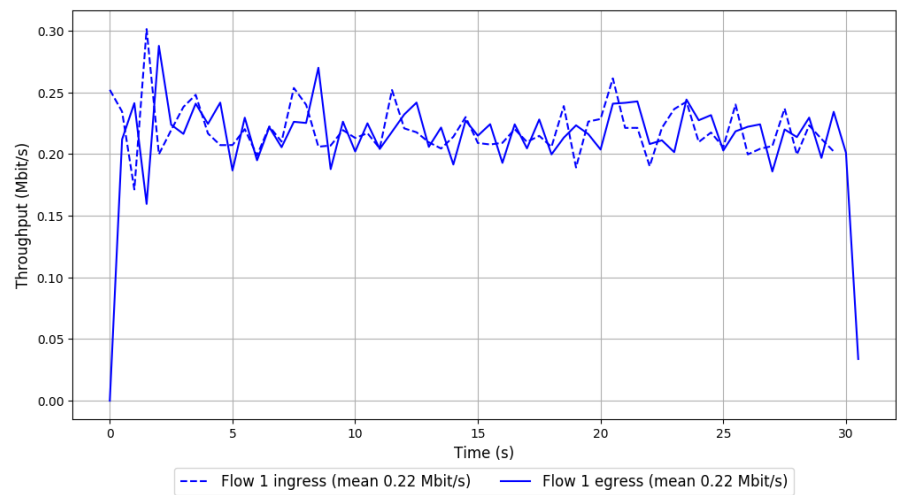


```
Run 4: Statistics of SCReAM

Start at: 2018-08-27 08:25:32
End at: 2018-08-27 08:26:02
Local clock offset: 1.006 ms
Remote clock offset: 1.395 ms

# Below is generated by plot.py at 2018-08-27 13:27:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.537 ms
Loss rate: 0.00%
```

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-27 08:49:44

End at: 2018-08-27 08:50:14

Local clock offset: 0.86 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.645 ms

Loss rate: 0.00%

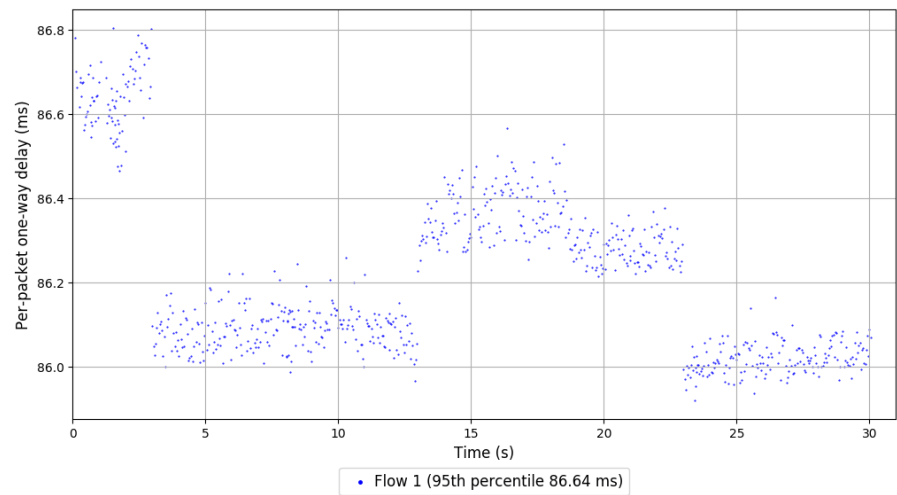
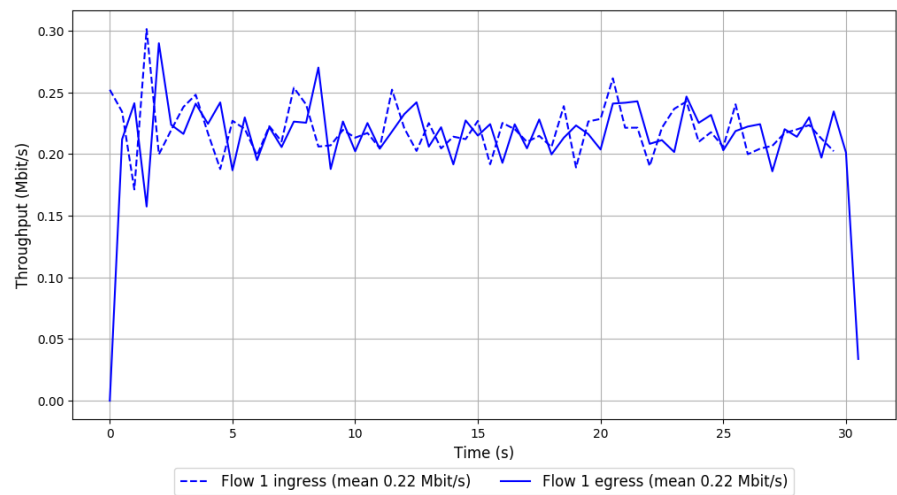
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.645 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-27 09:14:18

End at: 2018-08-27 09:14:48

Local clock offset: 0.315 ms

Remote clock offset: 0.477 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 0.00%

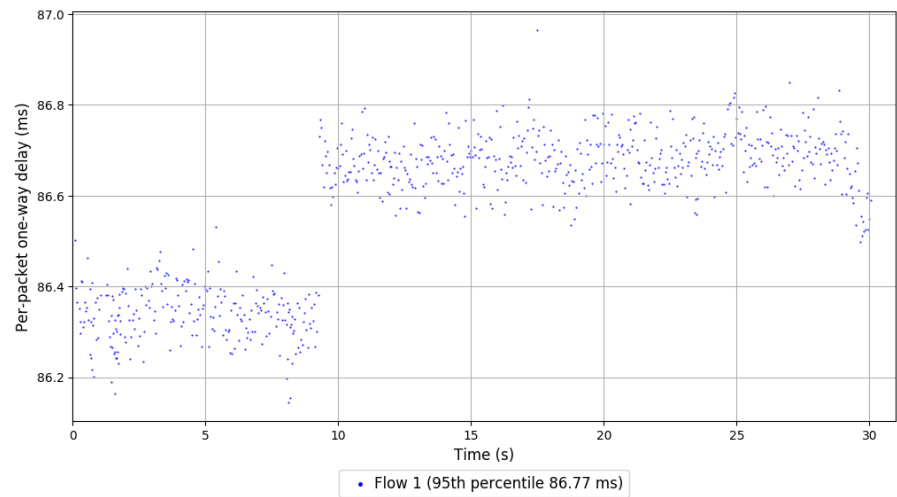
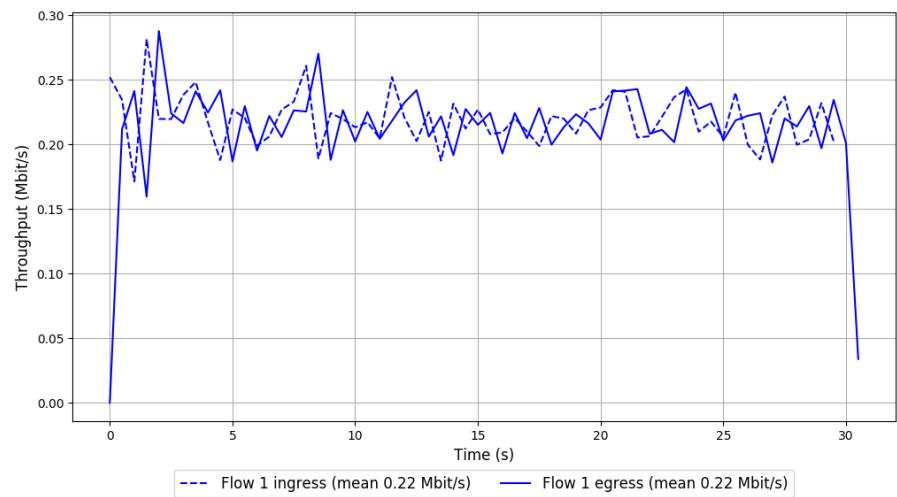
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.768 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-27 09:38:38

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

Local clock offset: 0.796 ms

Remote clock offset: 0.167 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.444 ms

Loss rate: 0.00%

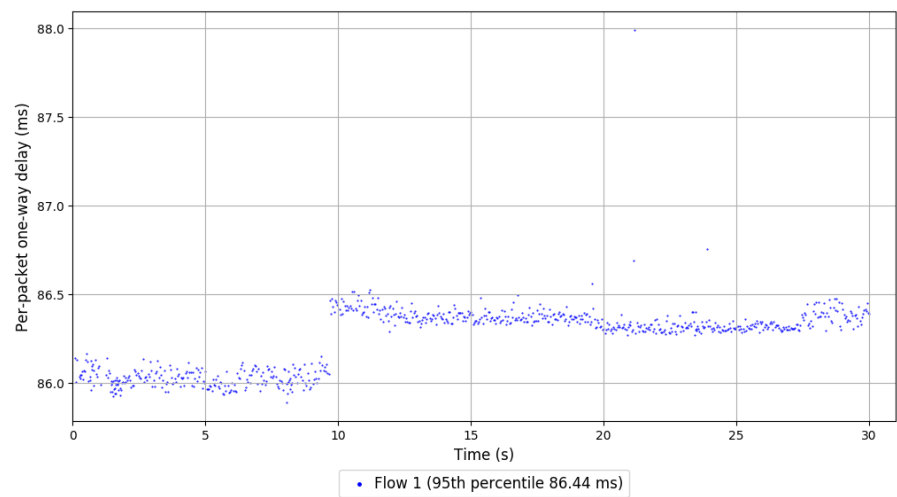
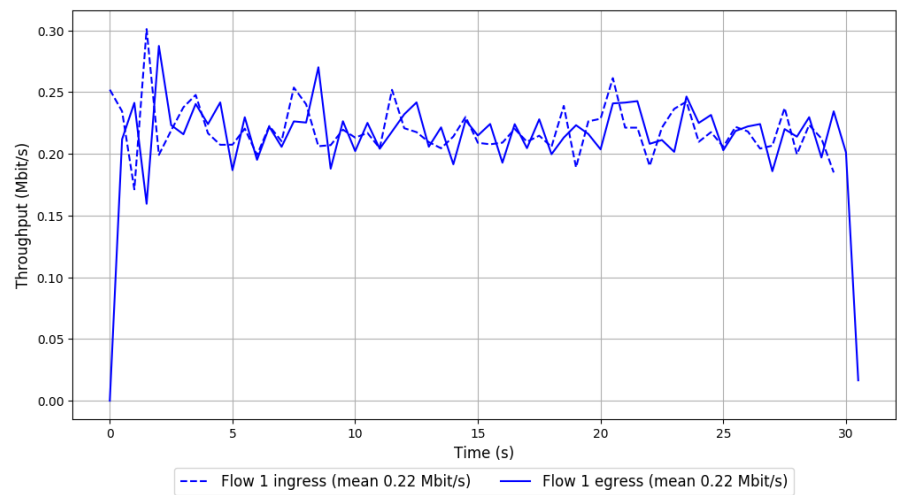
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.444 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-08-27 10:02:55

End at: 2018-08-27 10:03:25

Local clock offset: 0.239 ms

Remote clock offset: 0.038 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.378 ms

Loss rate: 0.00%

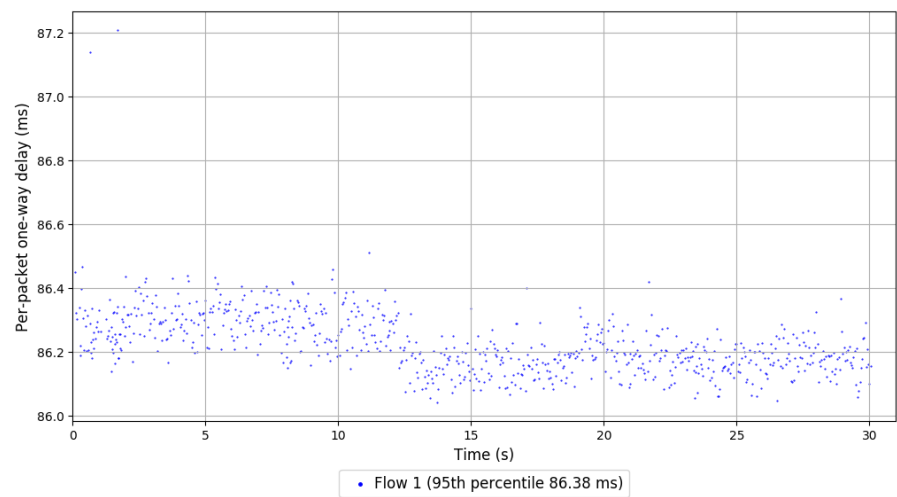
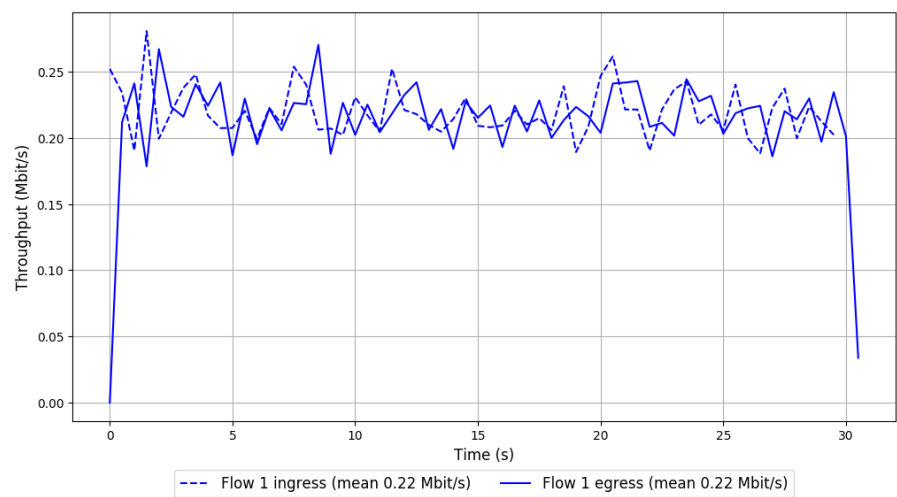
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.378 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

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

End at: 2018-08-27 10:27:52

Local clock offset: -0.015 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.553 ms

Loss rate: 0.00%

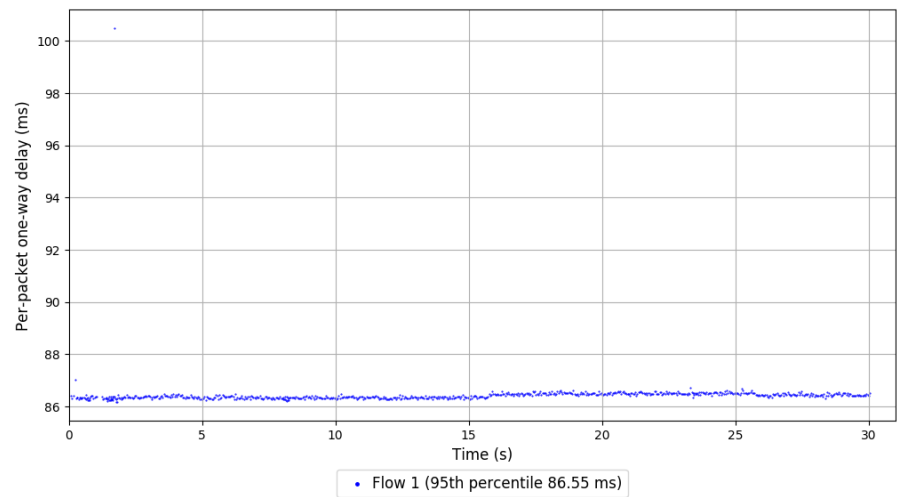
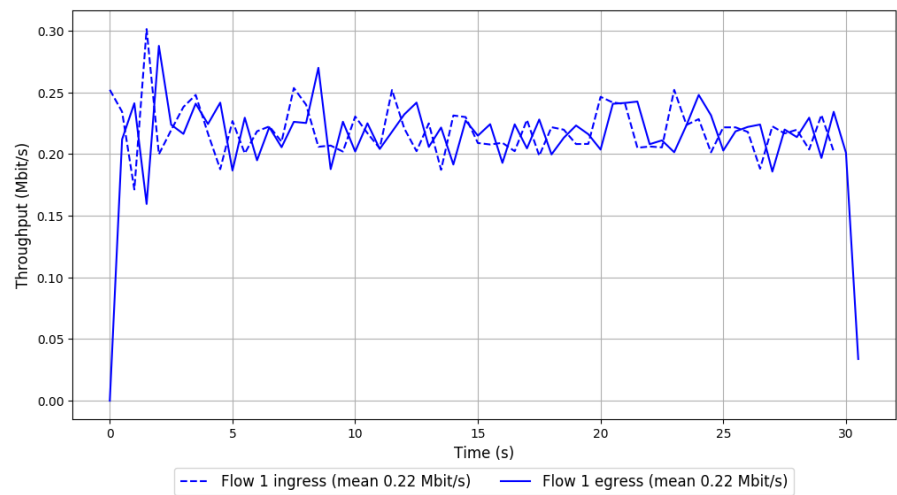
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.553 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

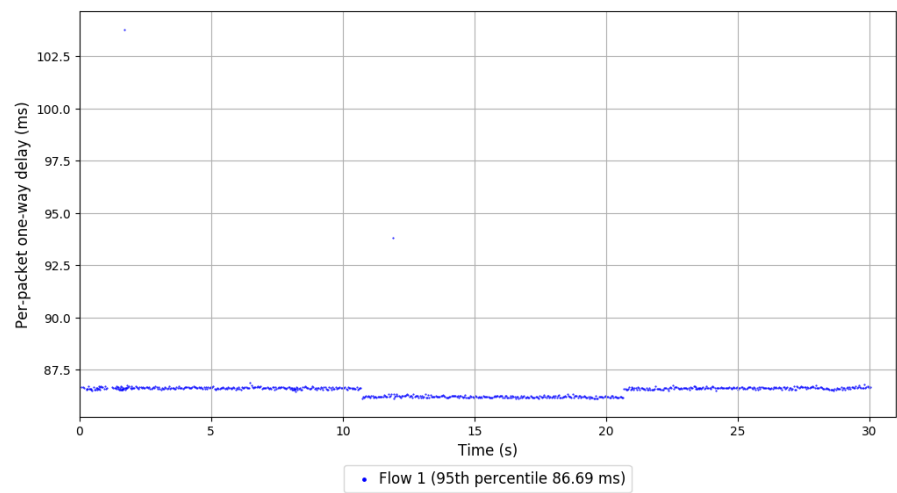
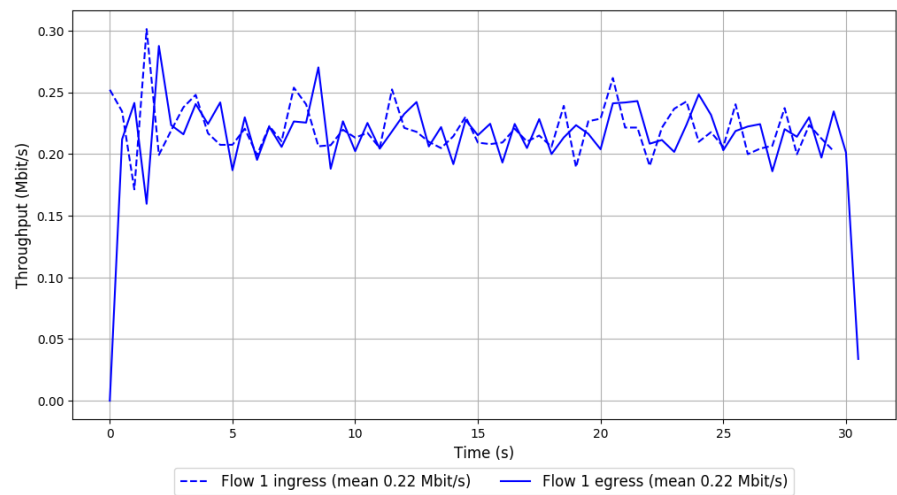


Run 10: Statistics of SCReAM

Start at: 2018-08-27 10:51:47
End at: 2018-08-27 10:52:17
Local clock offset: -0.148 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-08-27 13:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 86.686 ms
Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

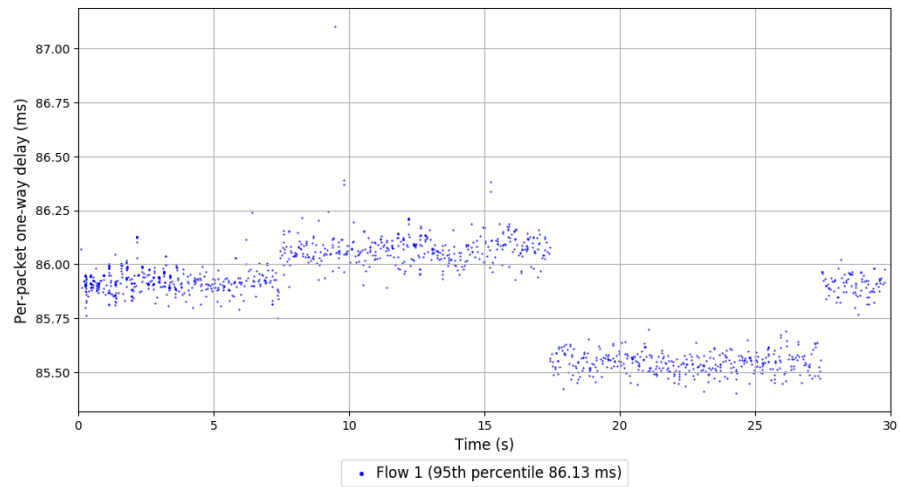
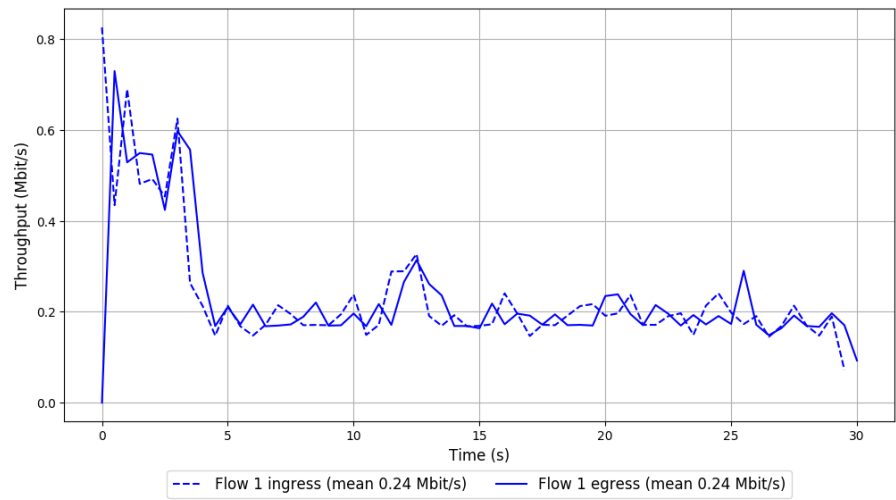


Run 1: Statistics of Sprout

Start at: 2018-08-27 07:07:10
End at: 2018-08-27 07:07:40
Local clock offset: 15.101 ms
Remote clock offset: 14.708 ms

Below is generated by plot.py at 2018-08-27 13:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 86.126 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-08-27 07:31:10

End at: 2018-08-27 07:31:40

Local clock offset: 8.385 ms

Remote clock offset: 8.589 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.00%

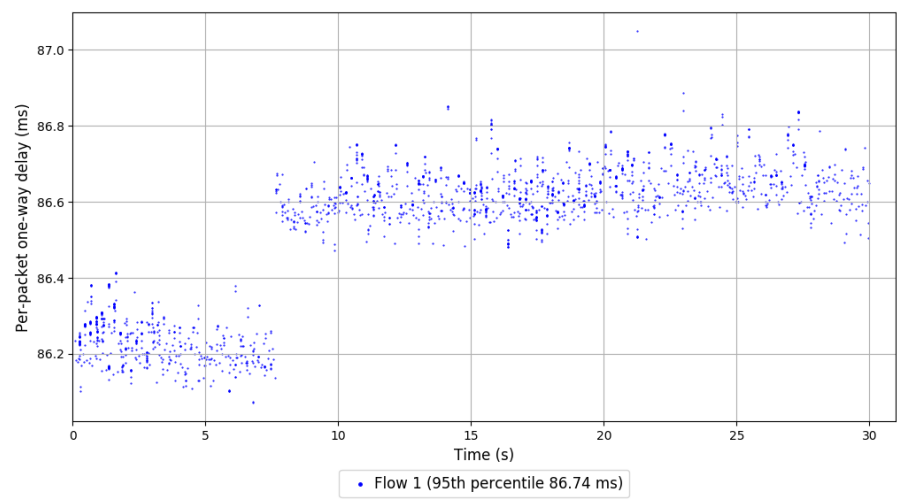
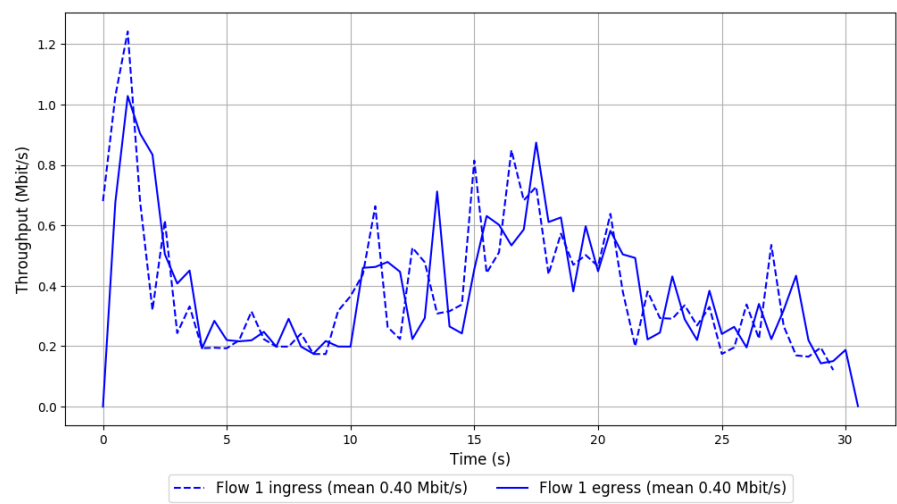
-- Flow 1:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 86.742 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-08-27 07:55:47

End at: 2018-08-27 07:56:17

Local clock offset: 2.429 ms

Remote clock offset: 3.654 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.562 ms

Loss rate: 0.00%

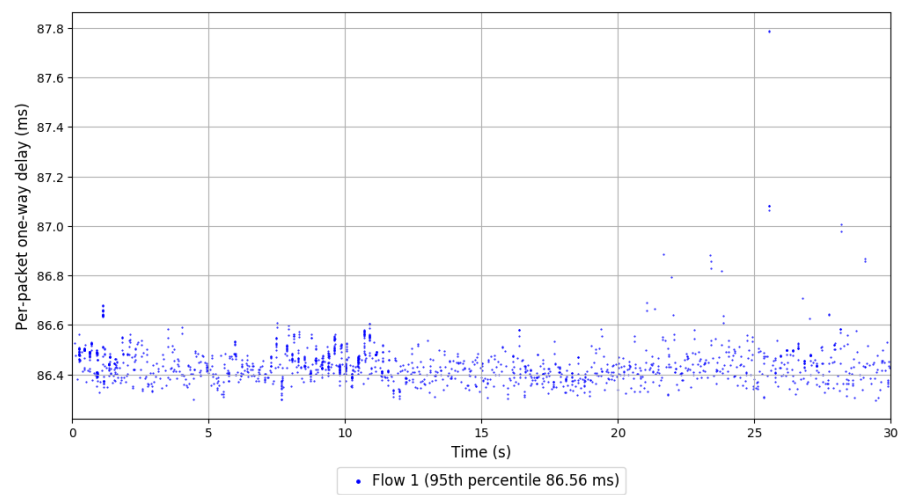
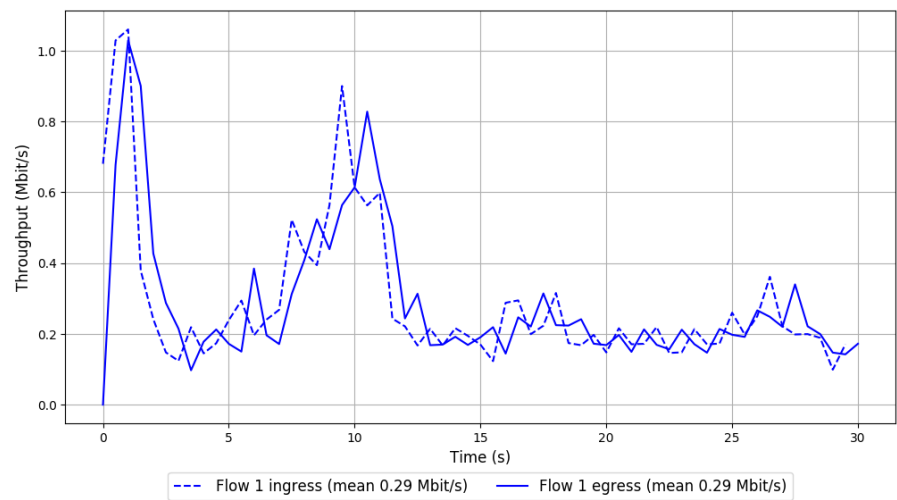
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 86.562 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

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

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

Local clock offset: 1.105 ms

Remote clock offset: 2.062 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 86.717 ms

Loss rate: 0.00%

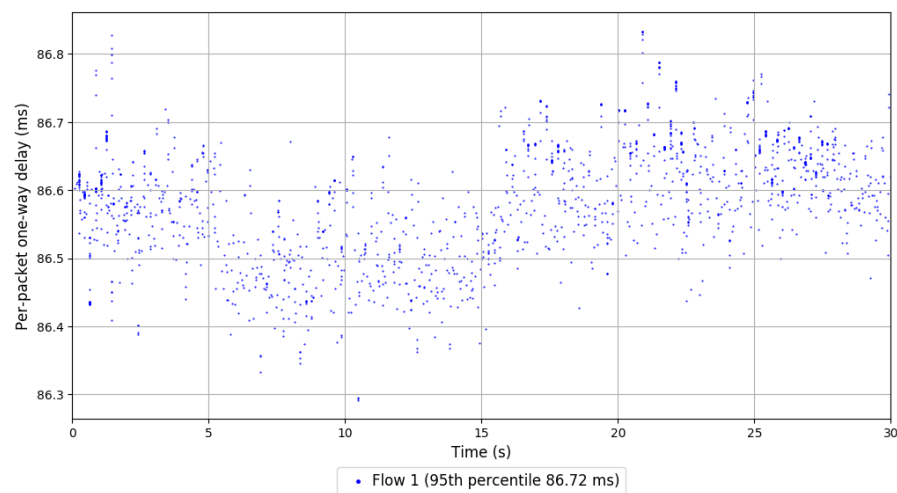
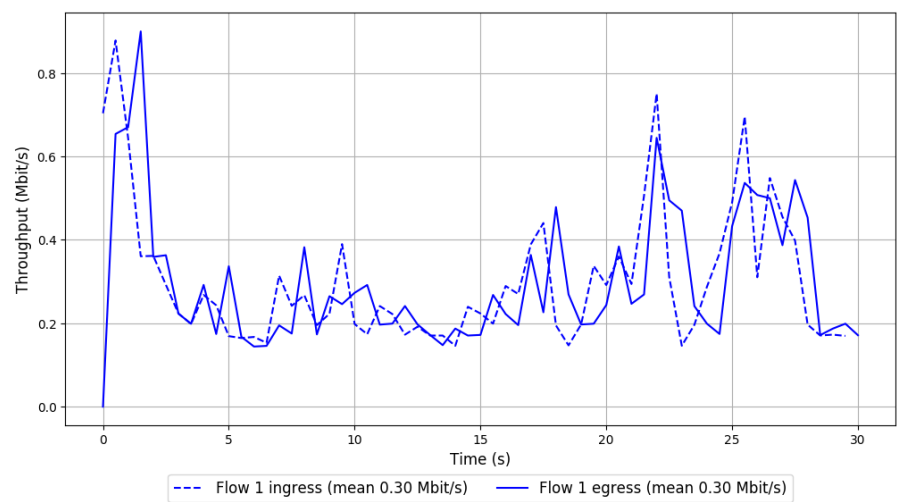
-- Flow 1:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 86.717 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-27 08:44:12

End at: 2018-08-27 08:44:42

Local clock offset: 0.638 ms

Remote clock offset: 1.044 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 87.088 ms

Loss rate: 0.00%

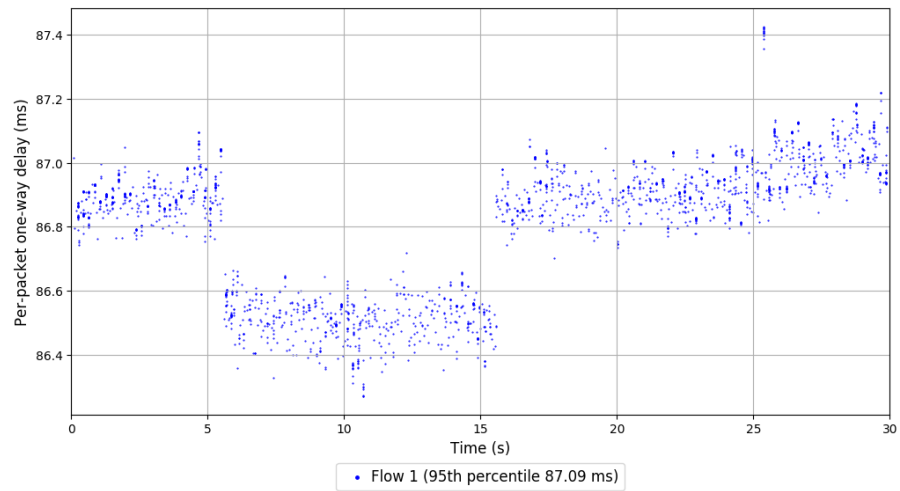
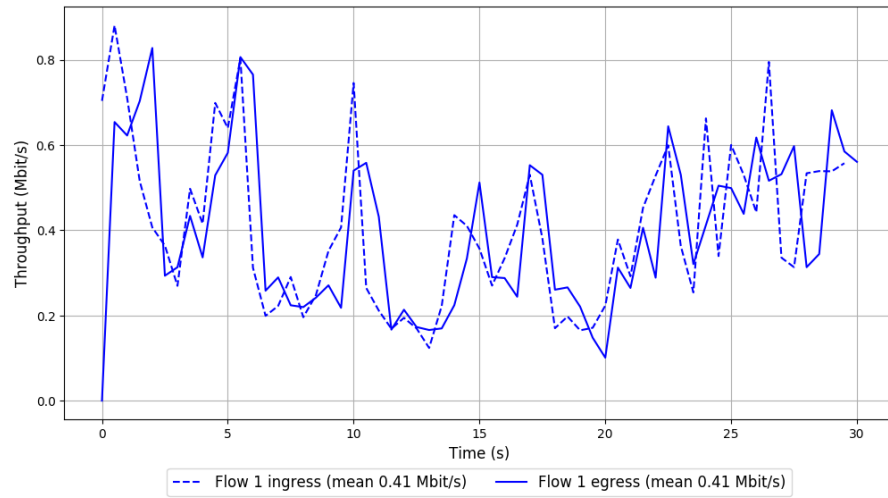
-- Flow 1:

Average throughput: 0.41 Mbit/s

95th percentile per-packet one-way delay: 87.088 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-08-27 09:08:41

End at: 2018-08-27 09:09:11

Local clock offset: 0.285 ms

Remote clock offset: 0.443 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.911 ms

Loss rate: 0.00%

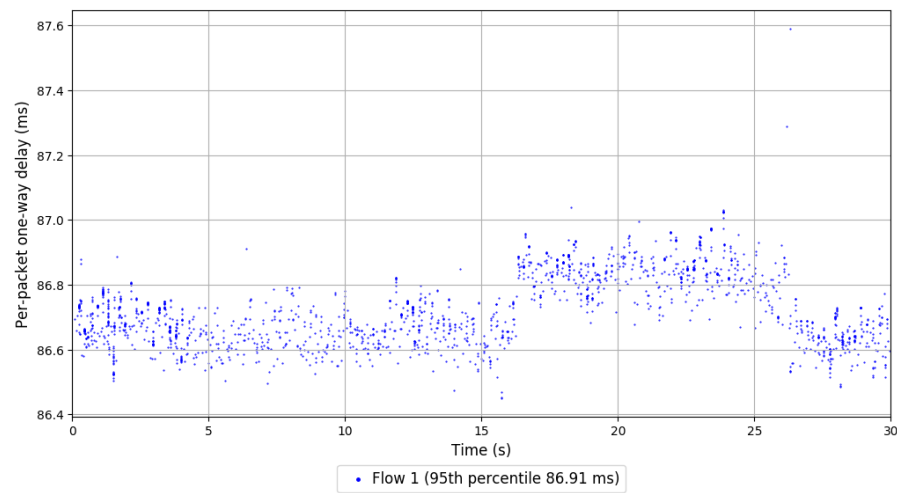
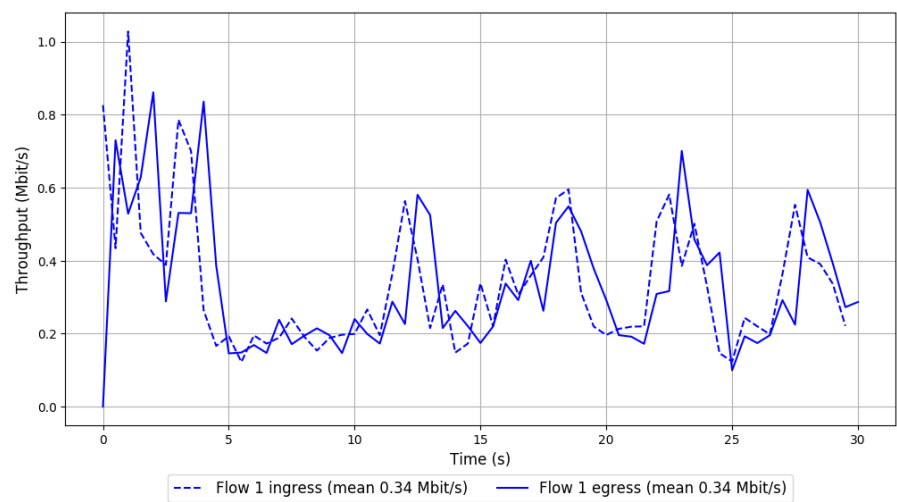
-- Flow 1:

Average throughput: 0.34 Mbit/s

95th percentile per-packet one-way delay: 86.911 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

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

End at: 2018-08-27 09:33:38

Local clock offset: 0.472 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.00%

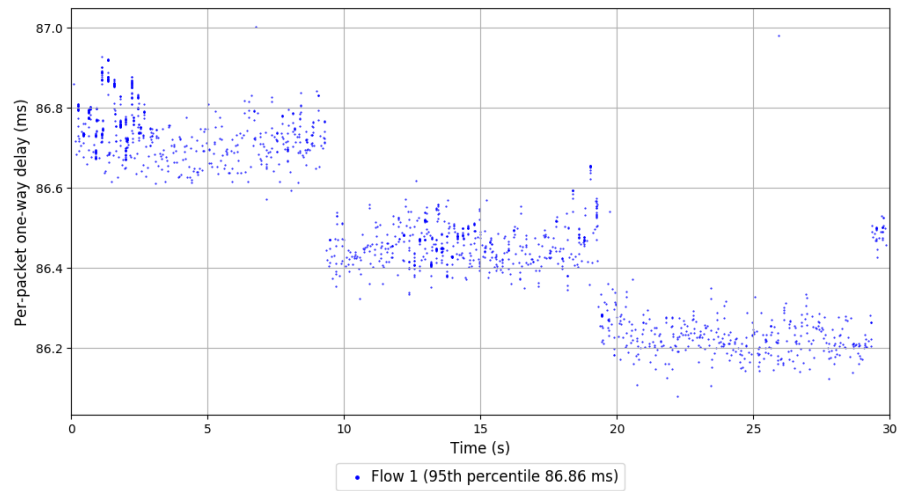
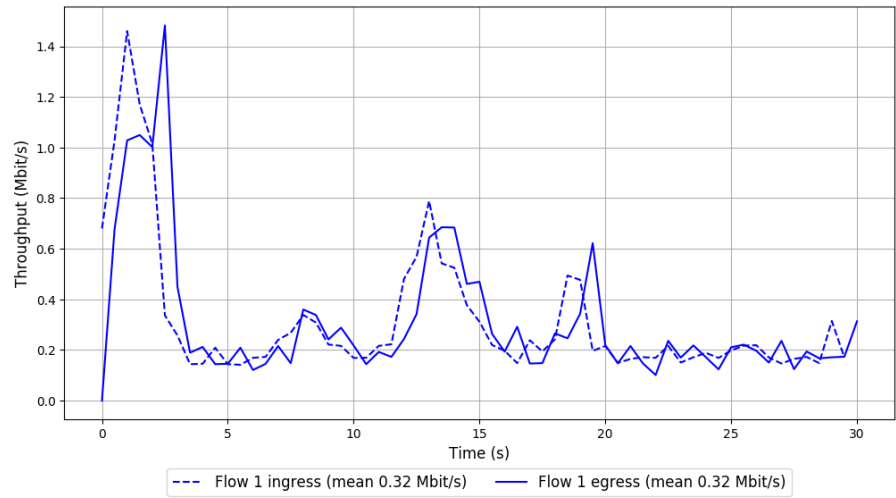
-- Flow 1:

Average throughput: 0.32 Mbit/s

95th percentile per-packet one-way delay: 86.856 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-08-27 09:57:31

End at: 2018-08-27 09:58:01

Local clock offset: 0.493 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 86.725 ms

Loss rate: 0.00%

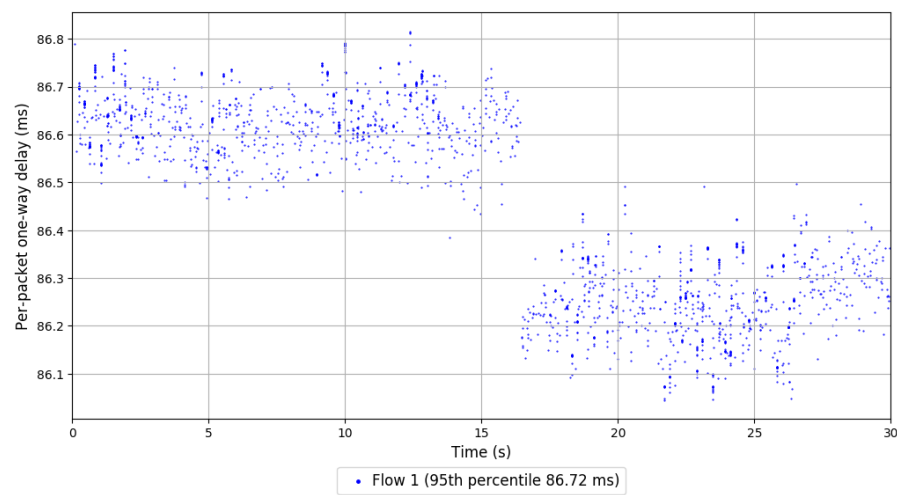
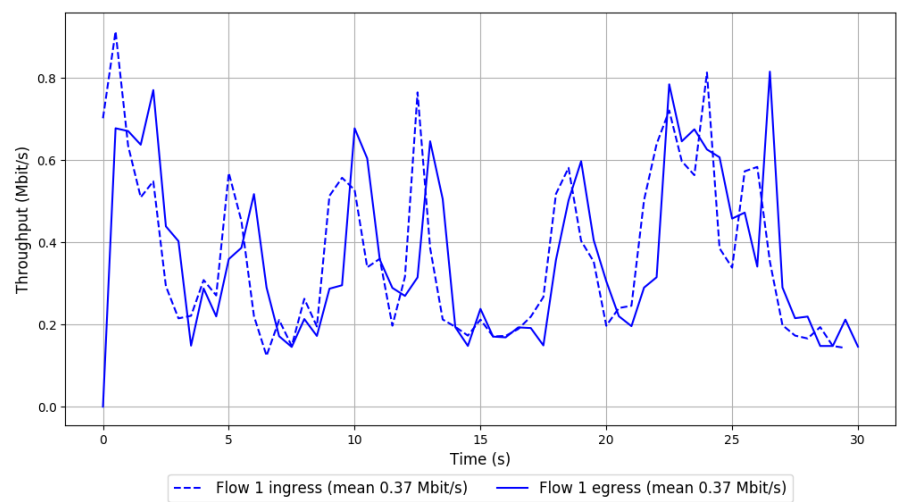
-- Flow 1:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 86.725 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-08-27 10:21:48

End at: 2018-08-27 10:22:18

Local clock offset: -0.352 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

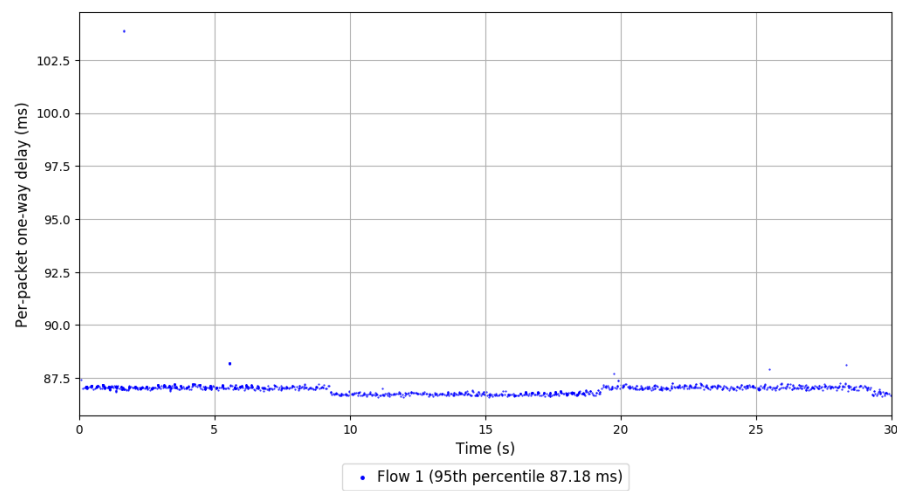
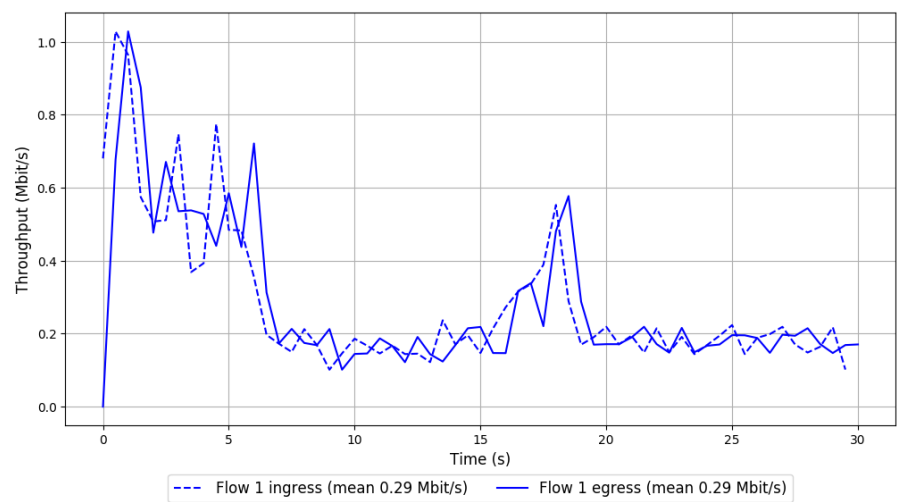
-- Flow 1:

Average throughput: 0.29 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

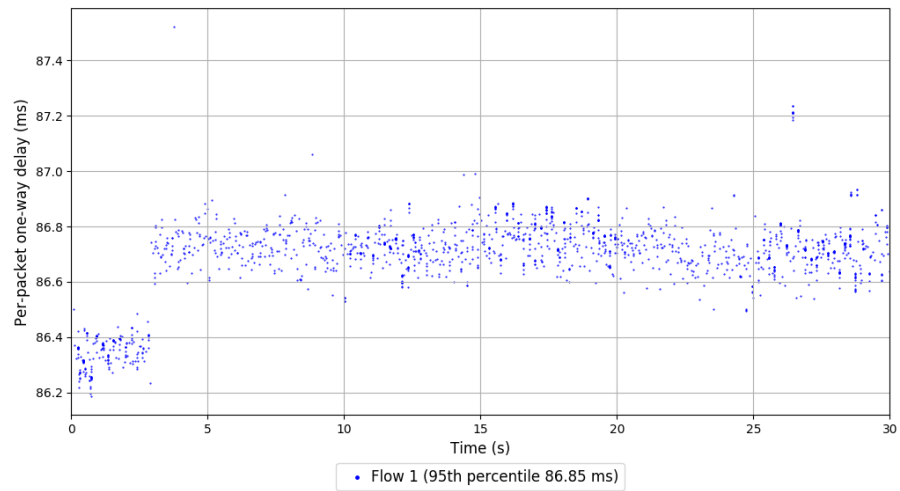
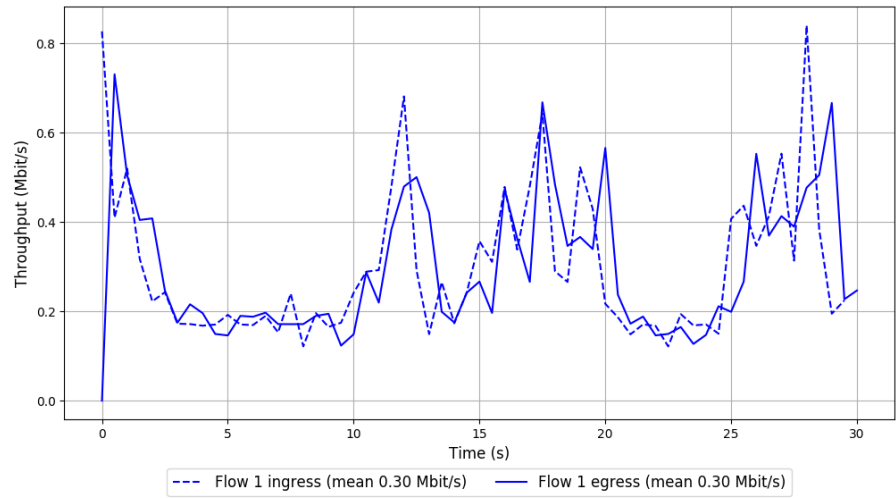


Run 10: Statistics of Sprout

Start at: 2018-08-27 10:46:14
End at: 2018-08-27 10:46:44
Local clock offset: -0.275 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-08-27 13:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.852 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 86.852 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

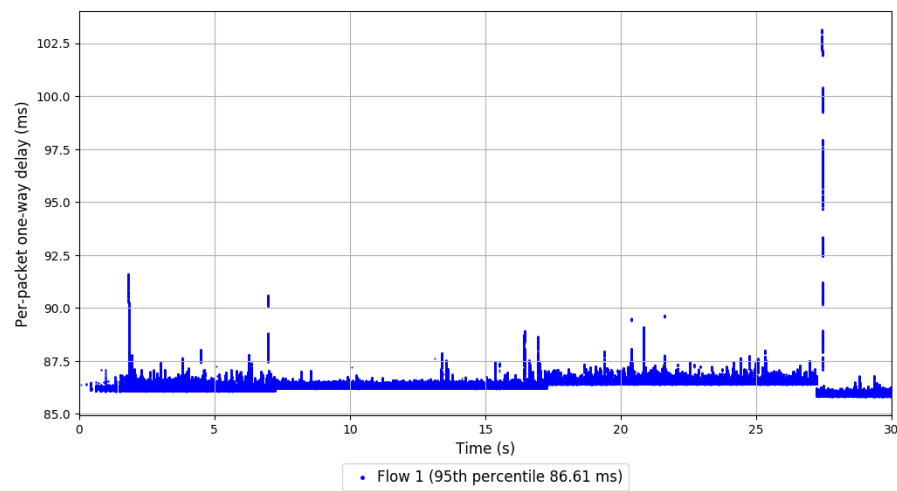
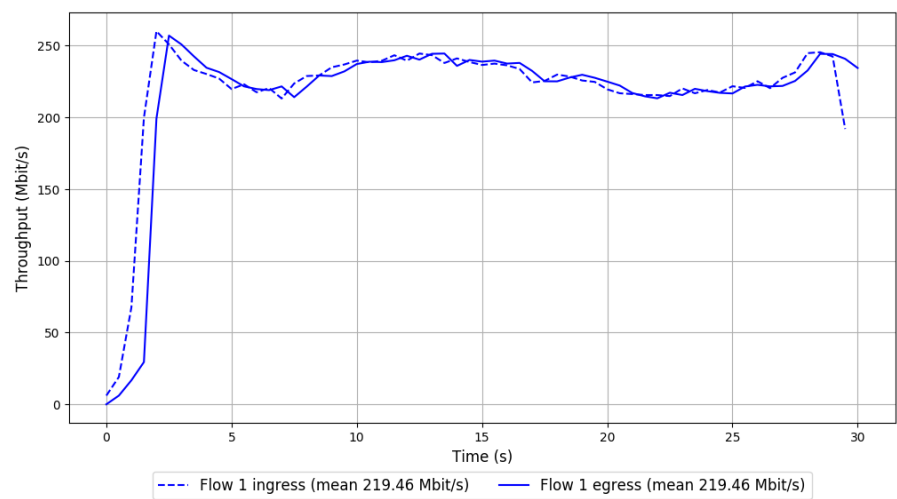


Run 1: Statistics of TaoVA-100x

Start at: 2018-08-27 07:09:40
End at: 2018-08-27 07:10:10
Local clock offset: 12.044 ms
Remote clock offset: 12.106 ms

Below is generated by plot.py at 2018-08-27 13:27:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 219.46 Mbit/s
95th percentile per-packet one-way delay: 86.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 219.46 Mbit/s
95th percentile per-packet one-way delay: 86.607 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-27 07:33:53

End at: 2018-08-27 07:34:23

Local clock offset: 9.029 ms

Remote clock offset: 9.129 ms

Below is generated by plot.py at 2018-08-27 13:27:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 237.62 Mbit/s

95th percentile per-packet one-way delay: 86.474 ms

Loss rate: 0.00%

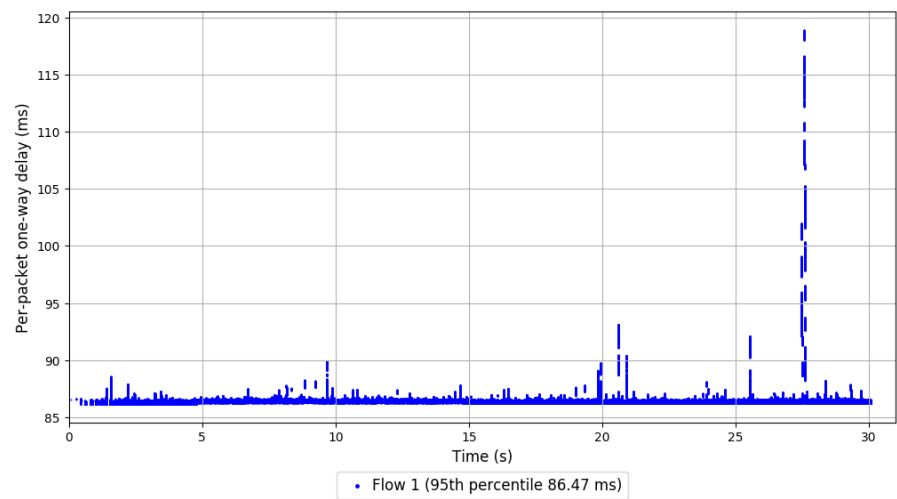
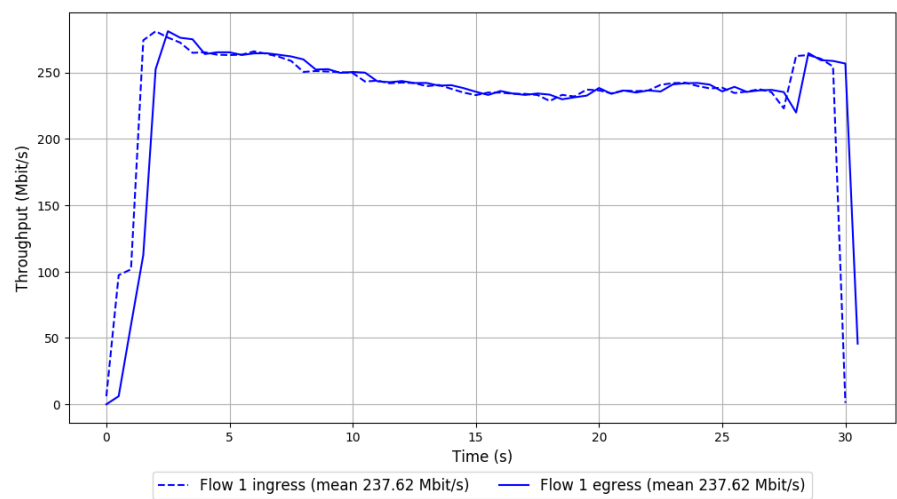
-- Flow 1:

Average throughput: 237.62 Mbit/s

95th percentile per-packet one-way delay: 86.474 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-27 07:58:24

End at: 2018-08-27 07:58:54

Local clock offset: 1.94 ms

Remote clock offset: 3.613 ms

Below is generated by plot.py at 2018-08-27 13:27:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 241.55 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 0.00%

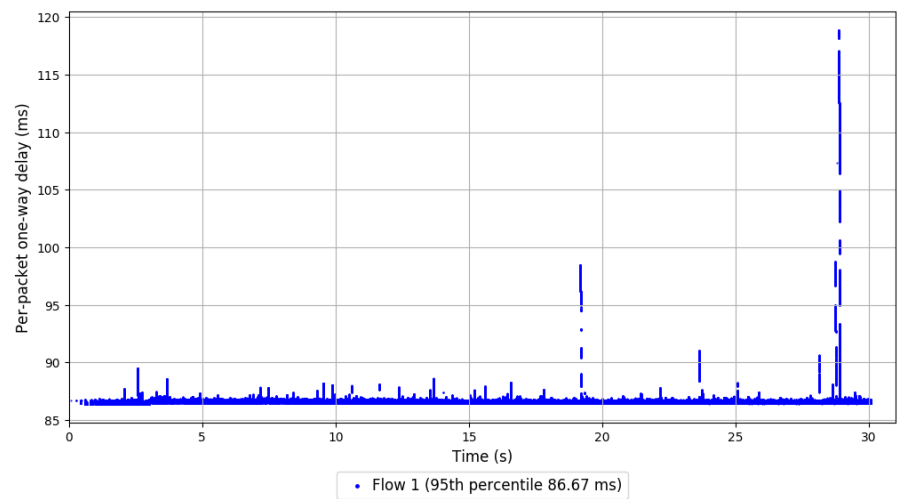
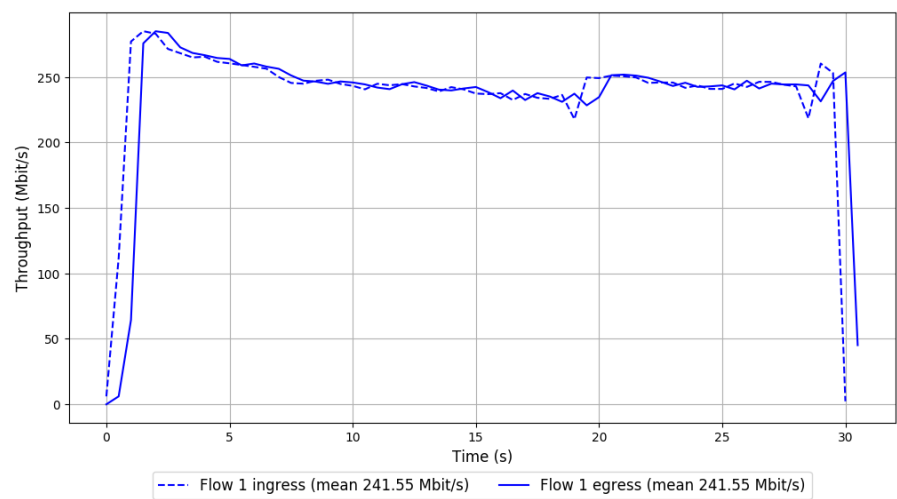
-- Flow 1:

Average throughput: 241.55 Mbit/s

95th percentile per-packet one-way delay: 86.672 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

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

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

Local clock offset: 0.697 ms

Remote clock offset: 1.63 ms

Below is generated by plot.py at 2018-08-27 13:27:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 238.85 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 0.00%

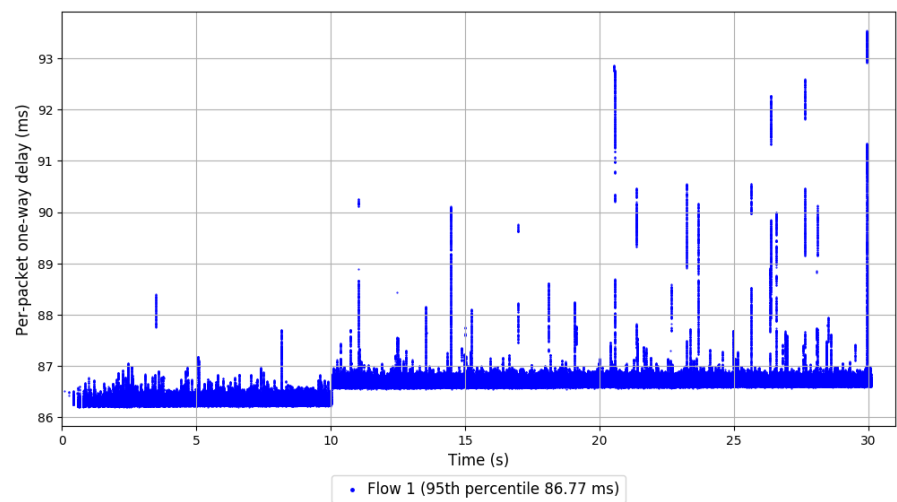
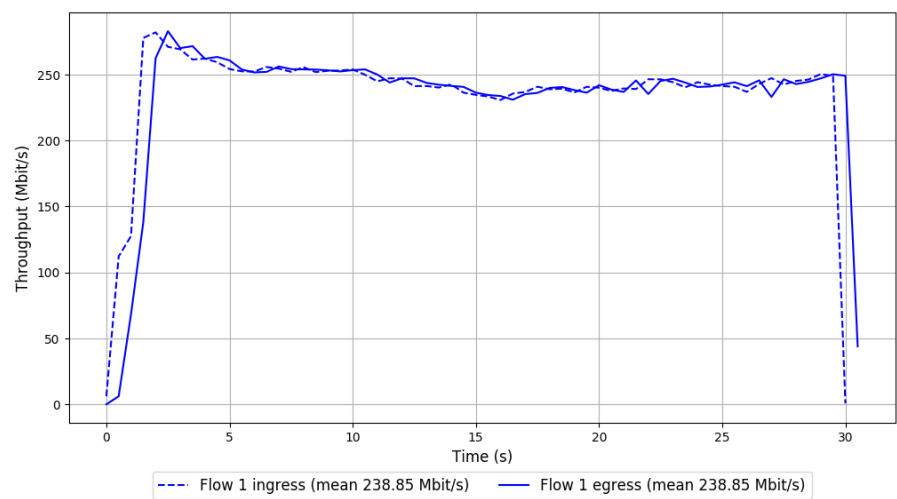
-- Flow 1:

Average throughput: 238.85 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-27 08:46:50

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

Local clock offset: 0.921 ms

Remote clock offset: 0.962 ms

Below is generated by plot.py at 2018-08-27 13:33:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.39 Mbit/s

95th percentile per-packet one-way delay: 86.510 ms

Loss rate: 0.00%

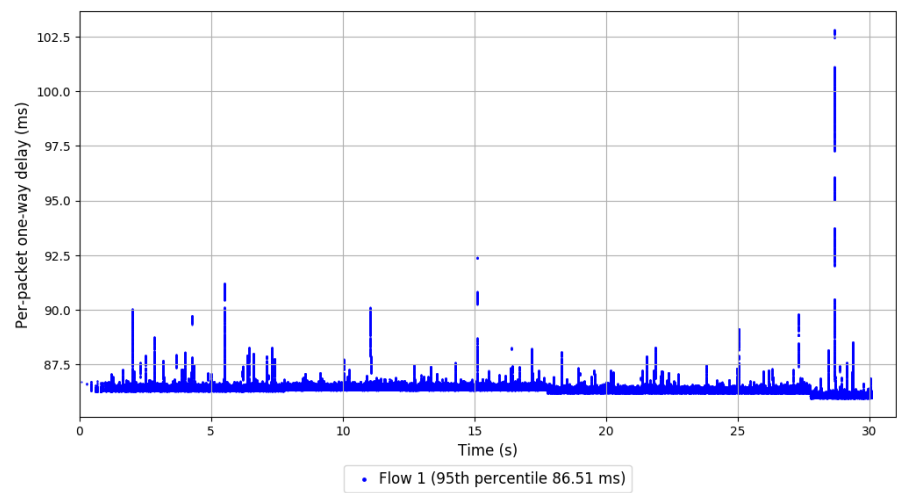
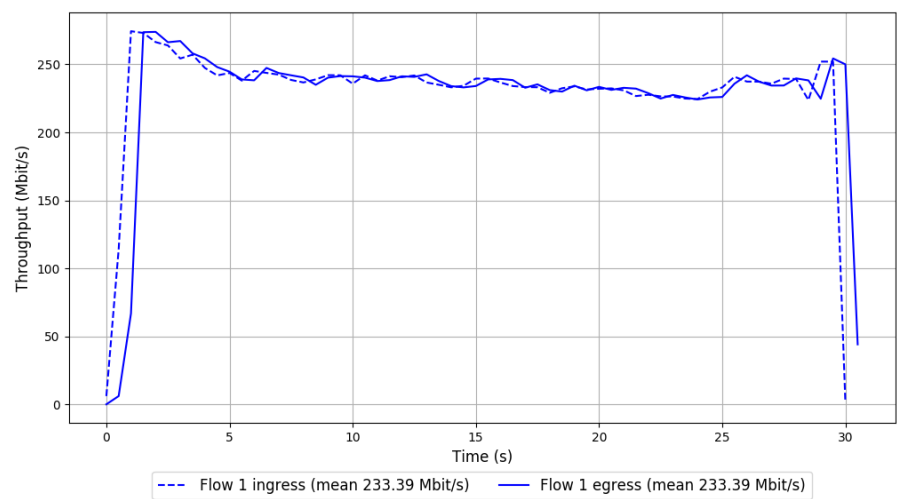
-- Flow 1:

Average throughput: 233.39 Mbit/s

95th percentile per-packet one-way delay: 86.510 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-08-27 09:11:25

End at: 2018-08-27 09:11:55

Local clock offset: 0.246 ms

Remote clock offset: 0.391 ms

Below is generated by plot.py at 2018-08-27 13:33:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 232.32 Mbit/s

95th percentile per-packet one-way delay: 86.609 ms

Loss rate: 0.00%

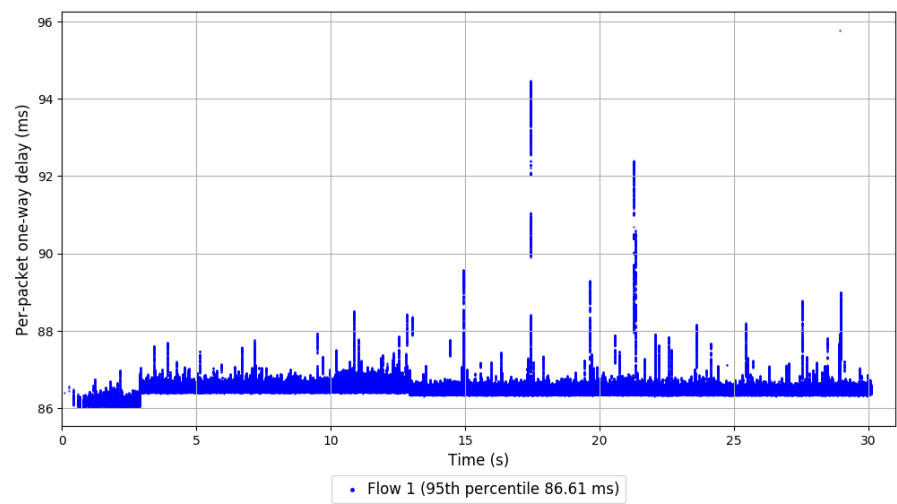
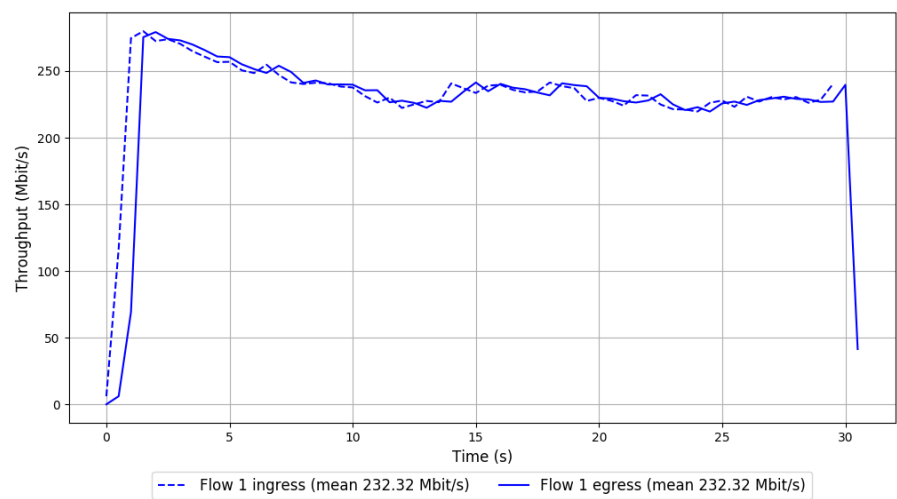
-- Flow 1:

Average throughput: 232.32 Mbit/s

95th percentile per-packet one-way delay: 86.609 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-08-27 09:35:44

End at: 2018-08-27 09:36:14

Local clock offset: 0.533 ms

Remote clock offset: 0.151 ms

Below is generated by plot.py at 2018-08-27 13:33:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 236.46 Mbit/s

95th percentile per-packet one-way delay: 86.469 ms

Loss rate: 0.00%

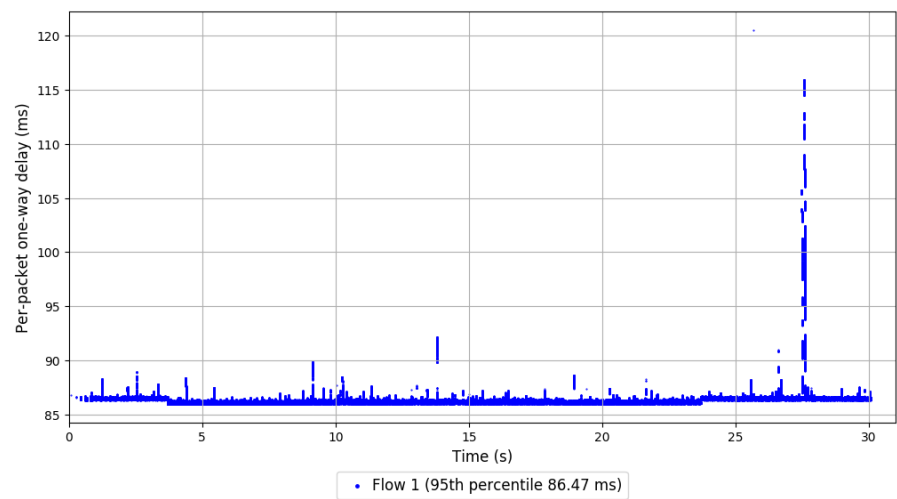
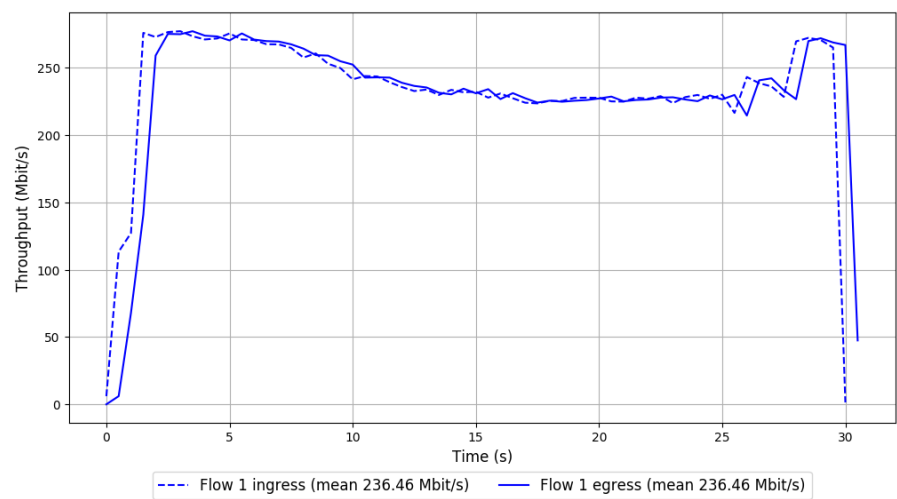
-- Flow 1:

Average throughput: 236.46 Mbit/s

95th percentile per-packet one-way delay: 86.469 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-27 09:59:59

End at: 2018-08-27 10:00:29

Local clock offset: 0.406 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-08-27 13:34:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 233.88 Mbit/s

95th percentile per-packet one-way delay: 86.510 ms

Loss rate: 0.00%

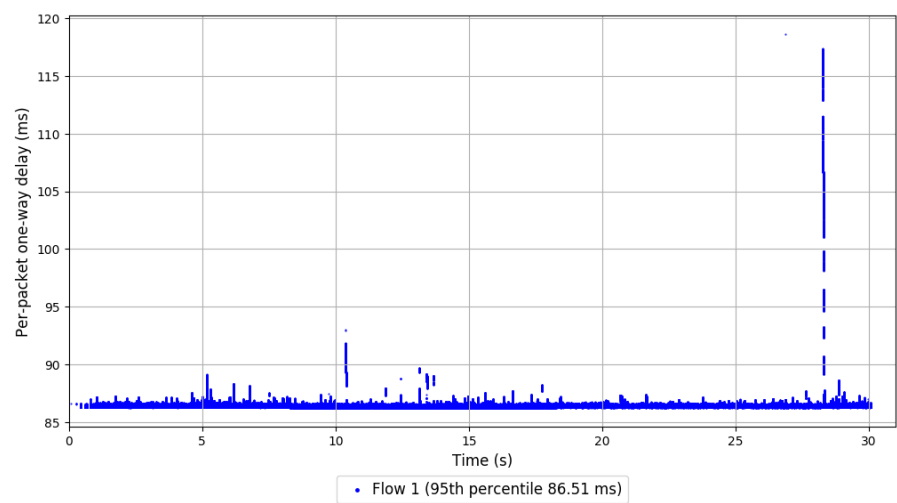
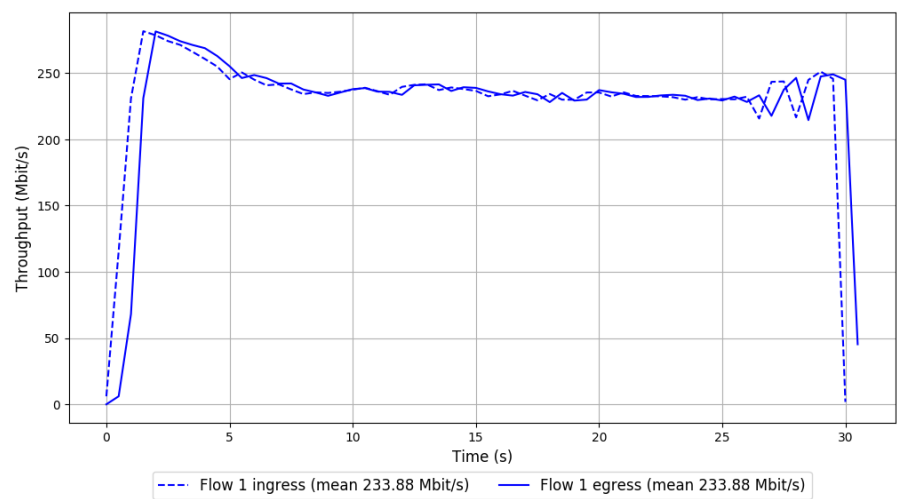
-- Flow 1:

Average throughput: 233.88 Mbit/s

95th percentile per-packet one-way delay: 86.510 ms

Loss rate: 0.00%

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

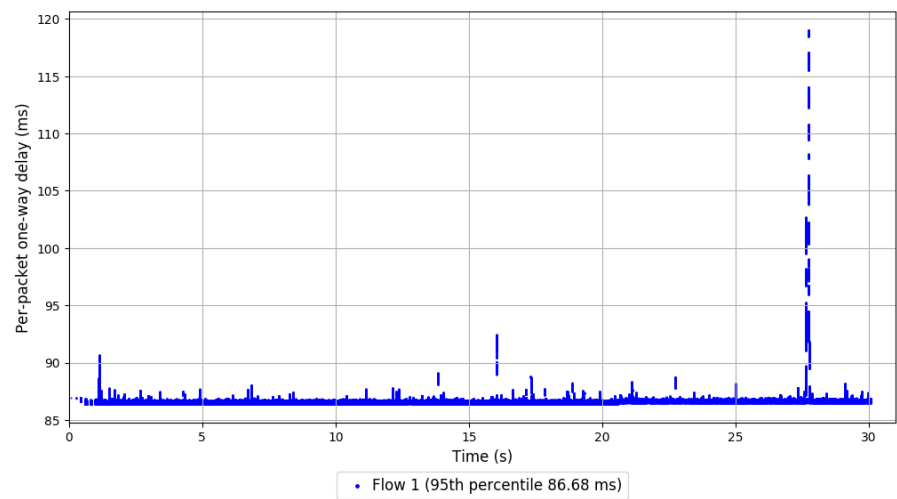
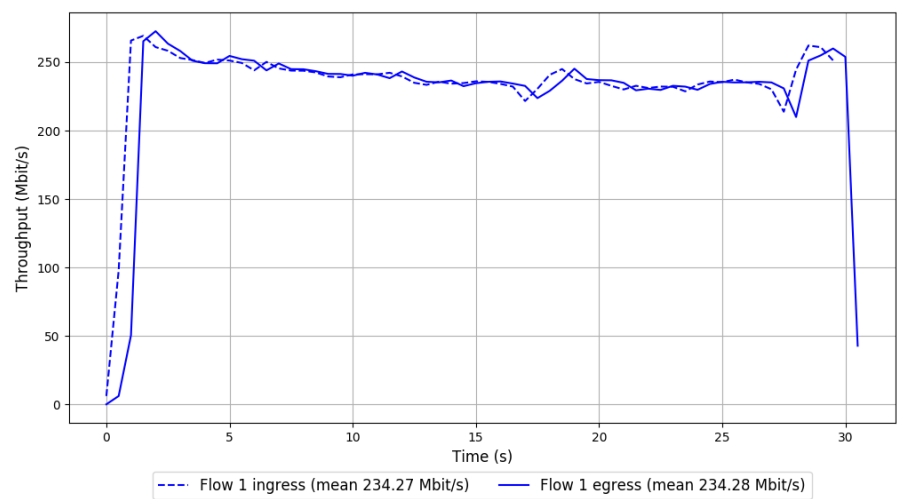


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-27 10:24:27
End at: 2018-08-27 10:24:57
Local clock offset: -0.352 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-08-27 13:34:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.28 Mbit/s
95th percentile per-packet one-way delay: 86.683 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 234.28 Mbit/s
95th percentile per-packet one-way delay: 86.683 ms
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-27 10:48:53

End at: 2018-08-27 10:49:23

Local clock offset: -0.15 ms

Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-08-27 13:34:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 224.63 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 0.00%

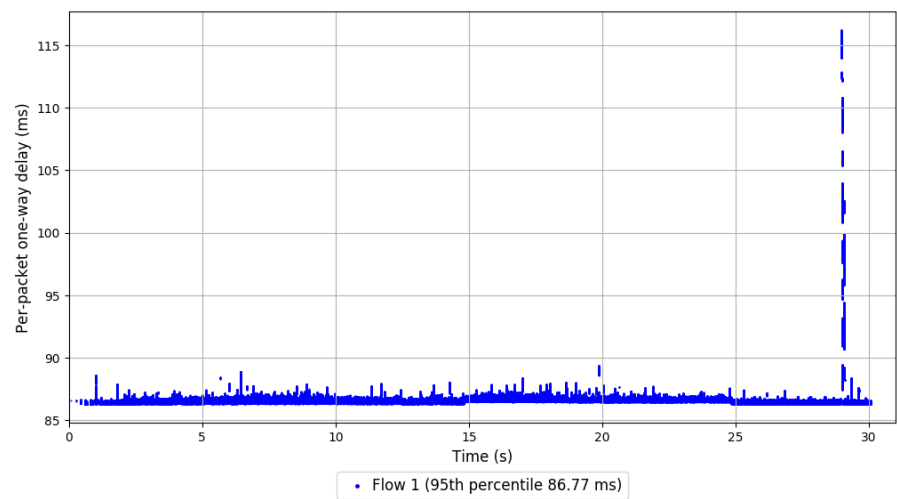
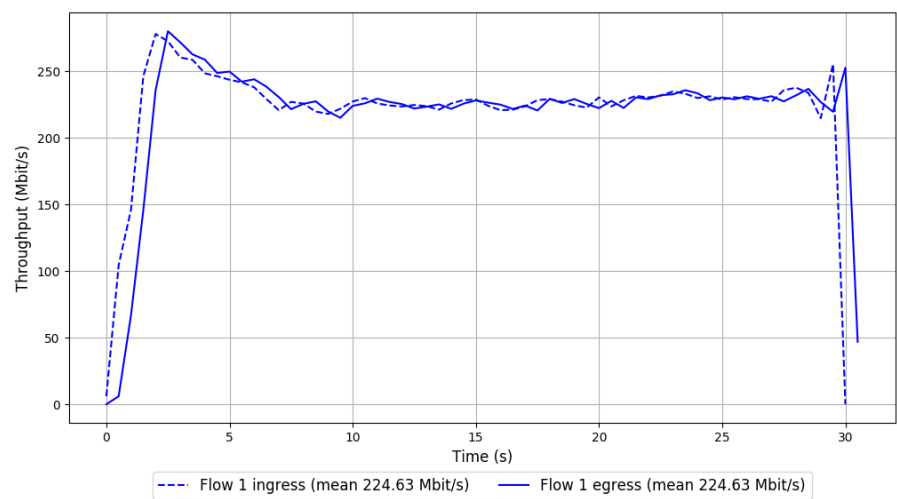
-- Flow 1:

Average throughput: 224.63 Mbit/s

95th percentile per-packet one-way delay: 86.771 ms

Loss rate: 0.00%

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

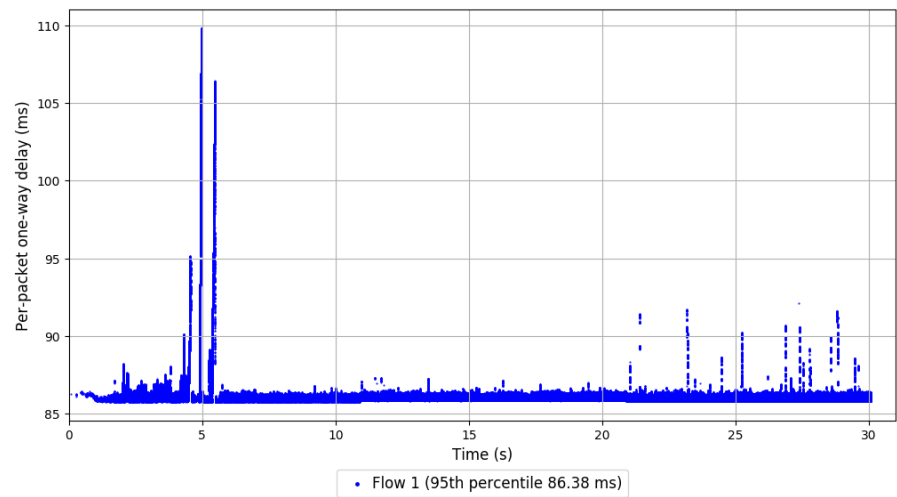
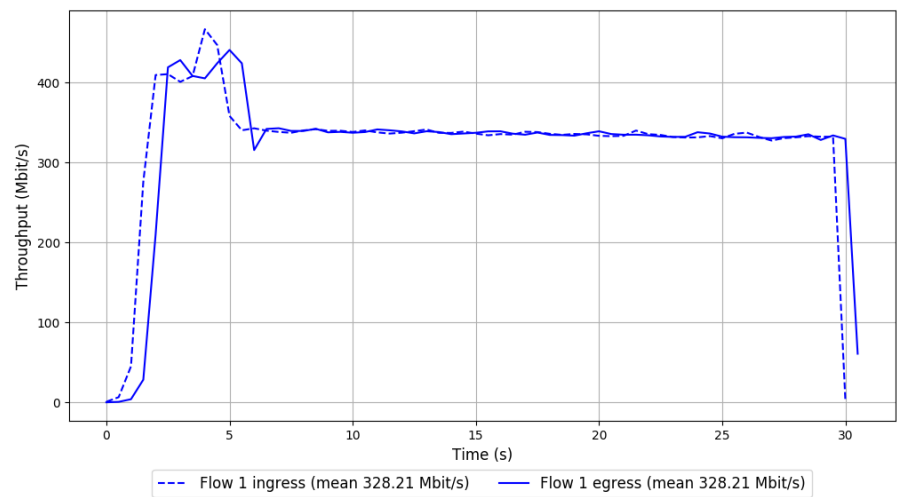


Run 1: Statistics of TCP Vegas

Start at: 2018-08-27 07:08:16
End at: 2018-08-27 07:08:46
Local clock offset: 13.722 ms
Remote clock offset: 13.439 ms

Below is generated by plot.py at 2018-08-27 13:34:06
Datalink statistics
-- Total of 1 flow:
Average throughput: 328.21 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 328.21 Mbit/s
95th percentile per-packet one-way delay: 86.380 ms
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-27 07:32:17

End at: 2018-08-27 07:32:47

Local clock offset: 8.466 ms

Remote clock offset: 8.783 ms

Below is generated by plot.py at 2018-08-27 13:37:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 590.29 Mbit/s

95th percentile per-packet one-way delay: 131.047 ms

Loss rate: 0.11%

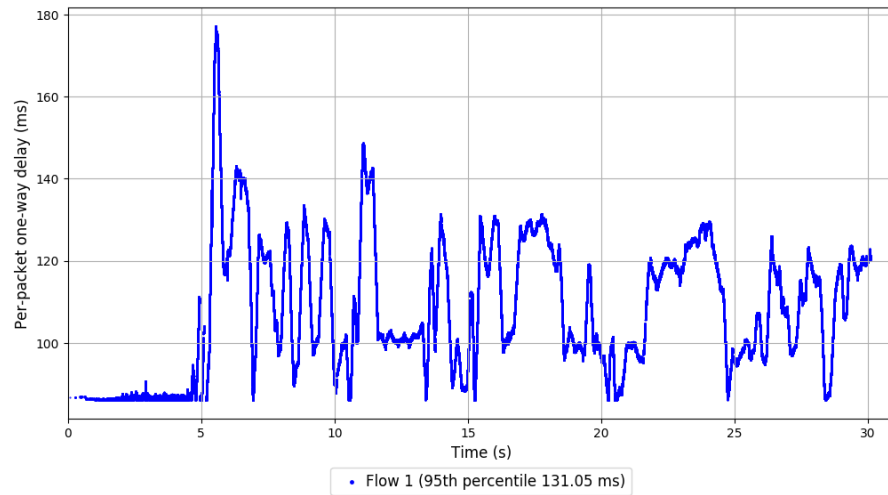
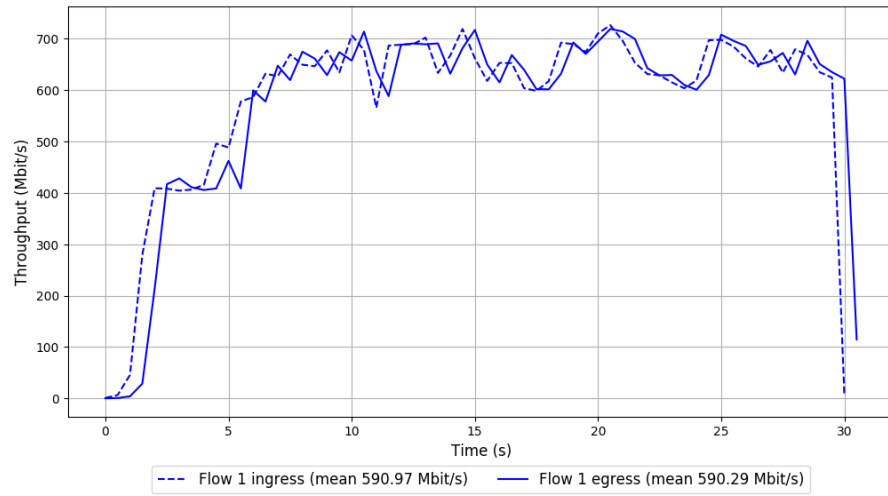
-- Flow 1:

Average throughput: 590.29 Mbit/s

95th percentile per-packet one-way delay: 131.047 ms

Loss rate: 0.11%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-08-27 07:56:53

End at: 2018-08-27 07:57:23

Local clock offset: 2.369 ms

Remote clock offset: 3.622 ms

Below is generated by plot.py at 2018-08-27 13:40:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 466.78 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.00%

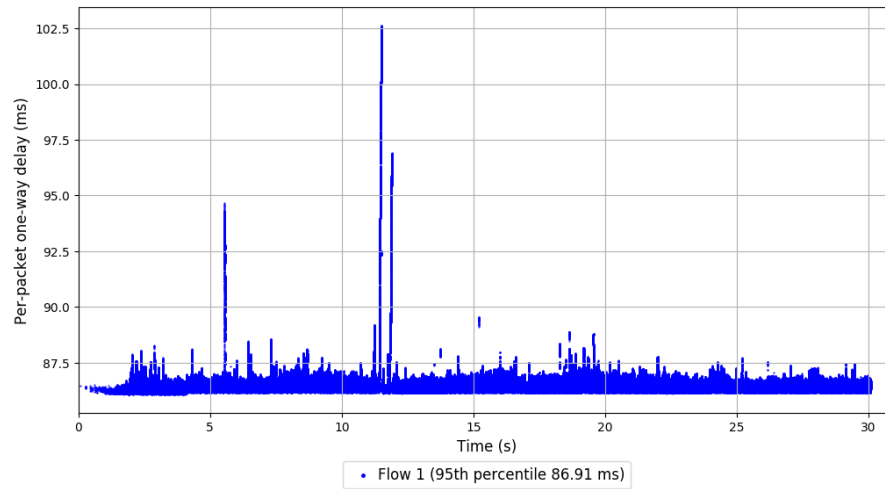
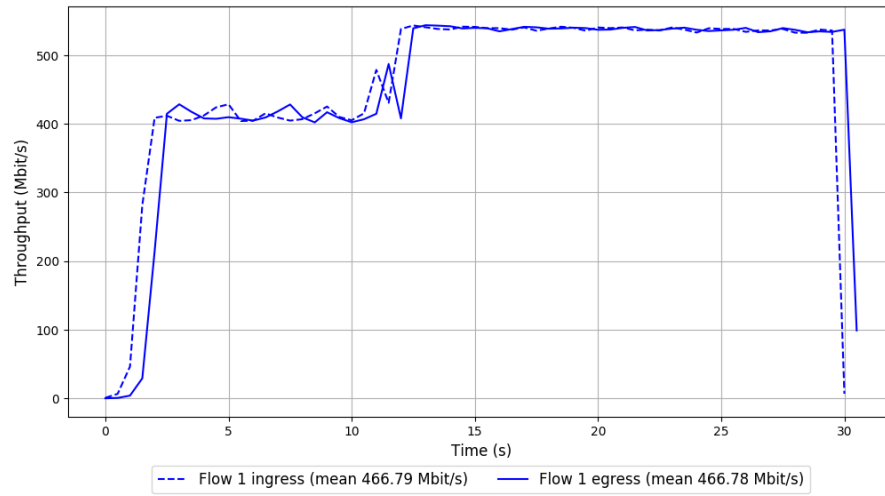
-- Flow 1:

Average throughput: 466.78 Mbit/s

95th percentile per-packet one-way delay: 86.906 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

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

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

Local clock offset: 0.958 ms

Remote clock offset: 1.882 ms

Below is generated by plot.py at 2018-08-27 13:41:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 441.92 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.00%

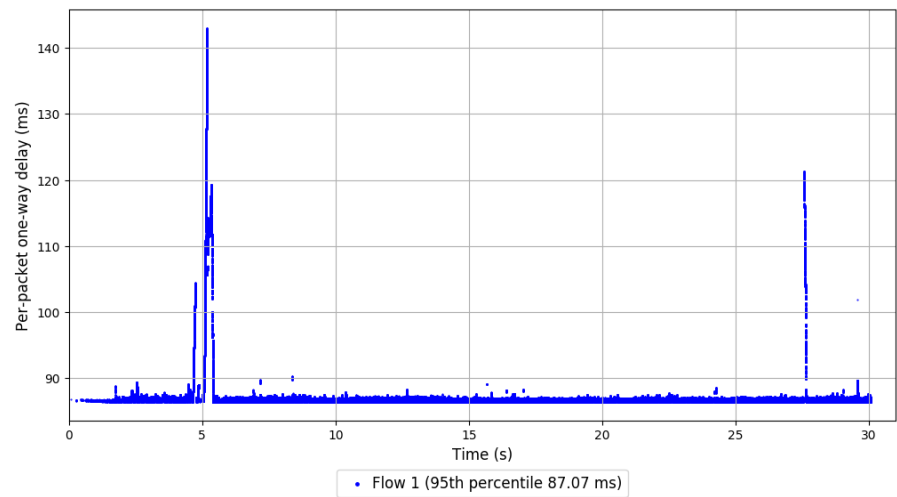
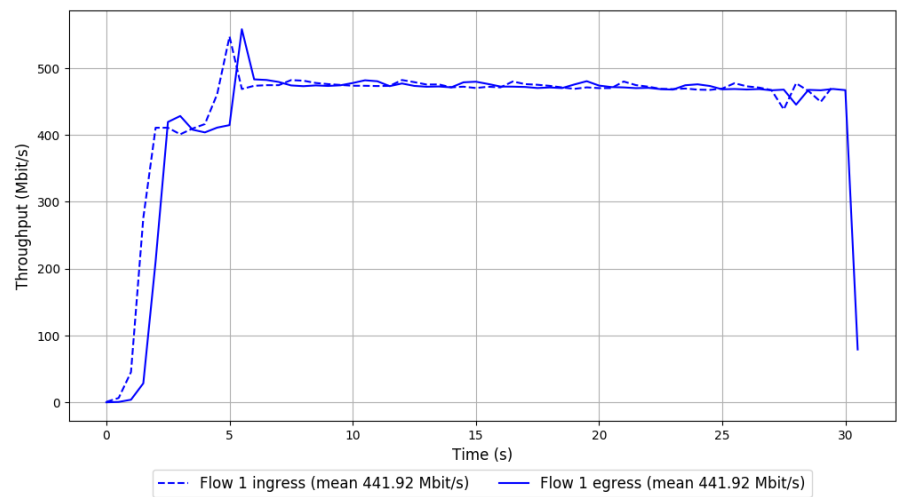
-- Flow 1:

Average throughput: 441.92 Mbit/s

95th percentile per-packet one-way delay: 87.066 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-27 08:45:19

End at: 2018-08-27 08:45:49

Local clock offset: 1.129 ms

Remote clock offset: 1.116 ms

Below is generated by plot.py at 2018-08-27 13:42:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 478.73 Mbit/s

95th percentile per-packet one-way delay: 87.270 ms

Loss rate: 0.00%

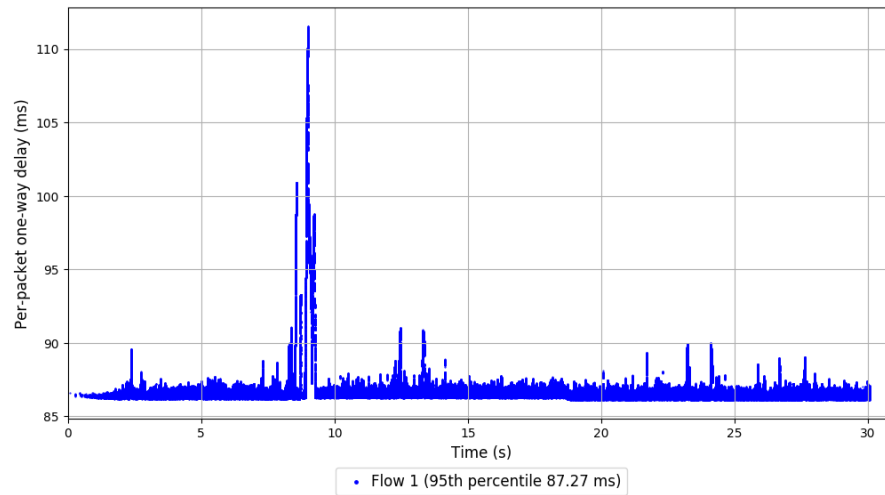
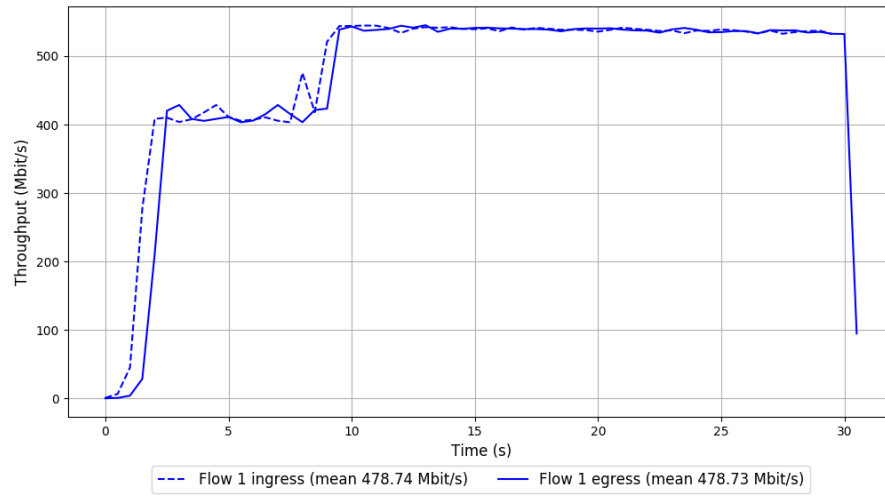
-- Flow 1:

Average throughput: 478.73 Mbit/s

95th percentile per-packet one-way delay: 87.270 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-27 09:09:48

End at: 2018-08-27 09:10:18

Local clock offset: 0.291 ms

Remote clock offset: 0.462 ms

Below is generated by plot.py at 2018-08-27 13:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 602.29 Mbit/s

95th percentile per-packet one-way delay: 109.664 ms

Loss rate: 0.00%

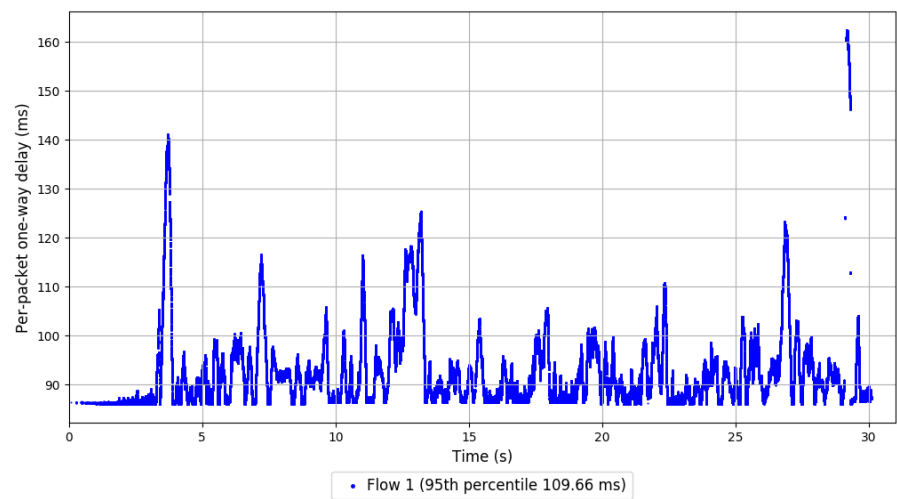
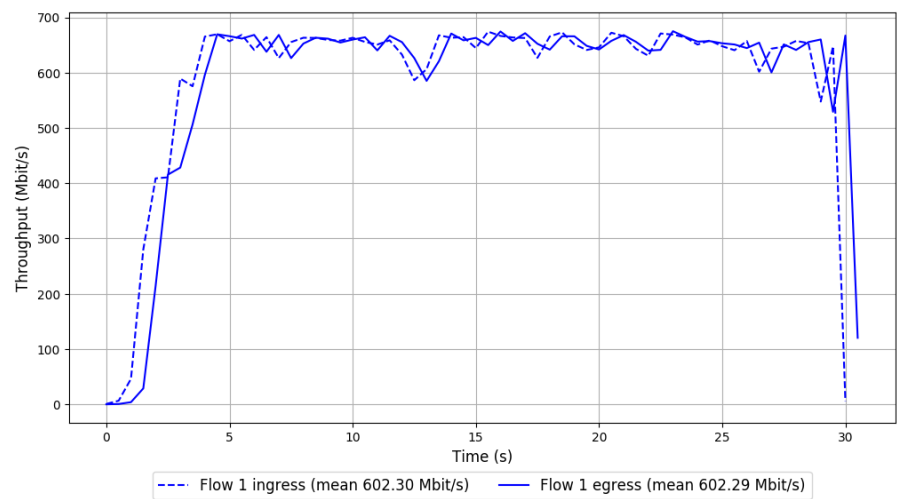
-- Flow 1:

Average throughput: 602.29 Mbit/s

95th percentile per-packet one-way delay: 109.664 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-27 09:34:15

End at: 2018-08-27 09:34:45

Local clock offset: 0.35 ms

Remote clock offset: 0.224 ms

Below is generated by plot.py at 2018-08-27 13:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.18 Mbit/s

95th percentile per-packet one-way delay: 87.477 ms

Loss rate: 0.00%

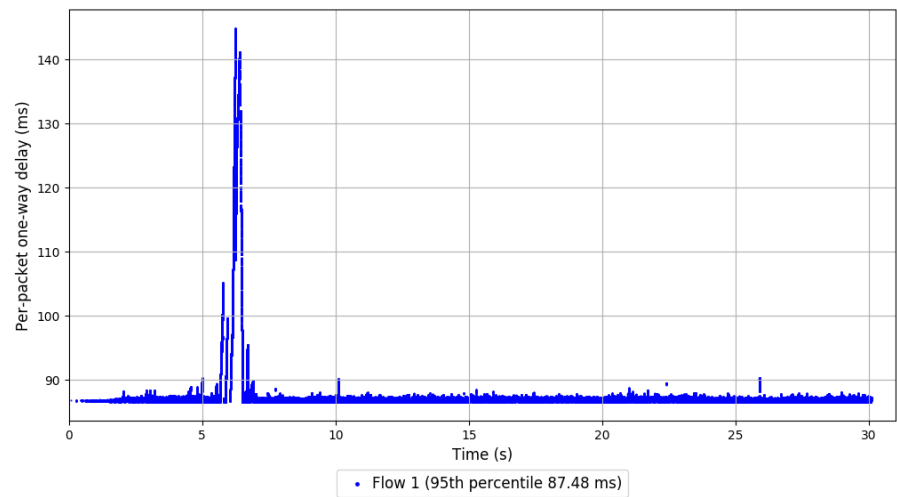
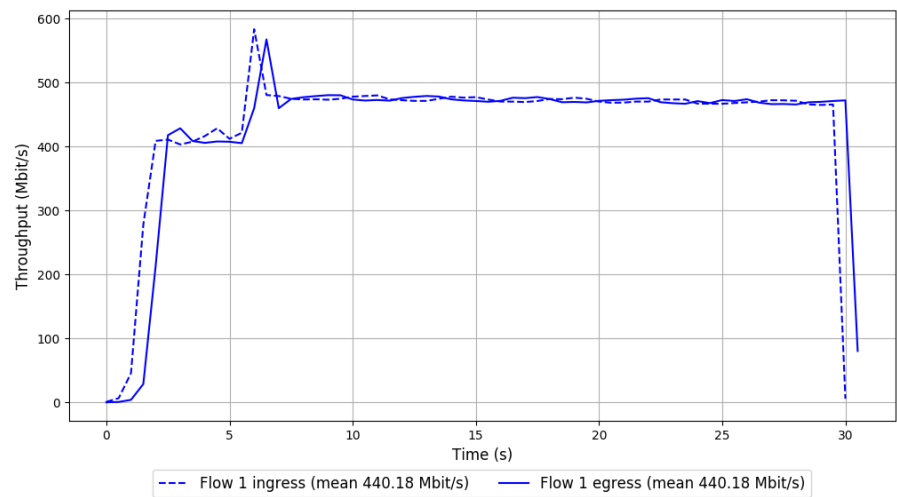
-- Flow 1:

Average throughput: 440.18 Mbit/s

95th percentile per-packet one-way delay: 87.477 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-08-27 09:58:38

End at: 2018-08-27 09:59:08

Local clock offset: 0.345 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-08-27 13:44:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 285.81 Mbit/s

95th percentile per-packet one-way delay: 87.210 ms

Loss rate: 0.00%

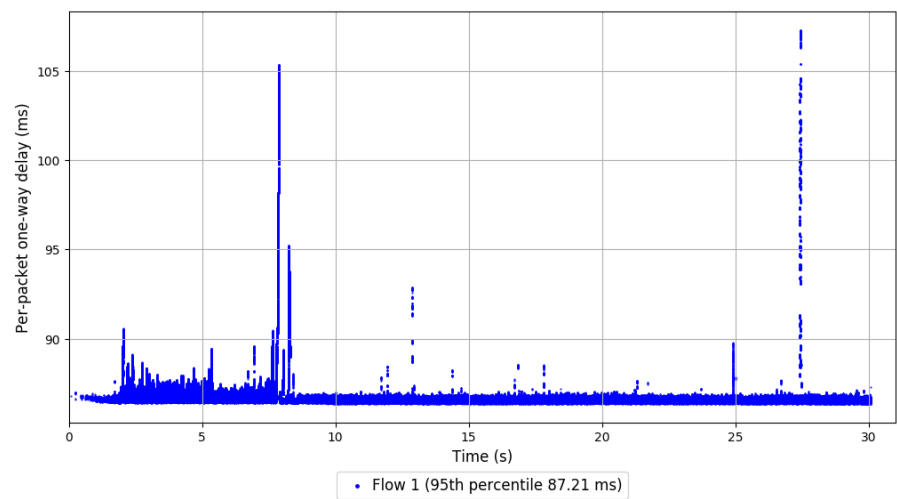
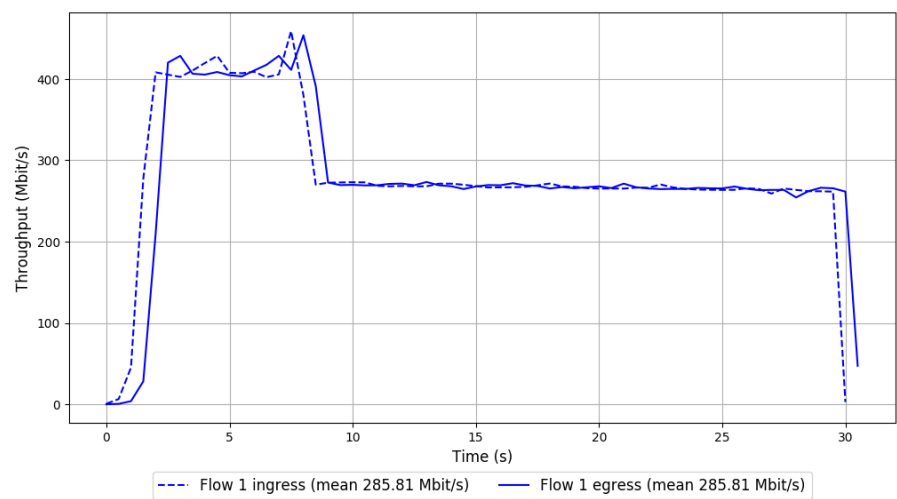
-- Flow 1:

Average throughput: 285.81 Mbit/s

95th percentile per-packet one-way delay: 87.210 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

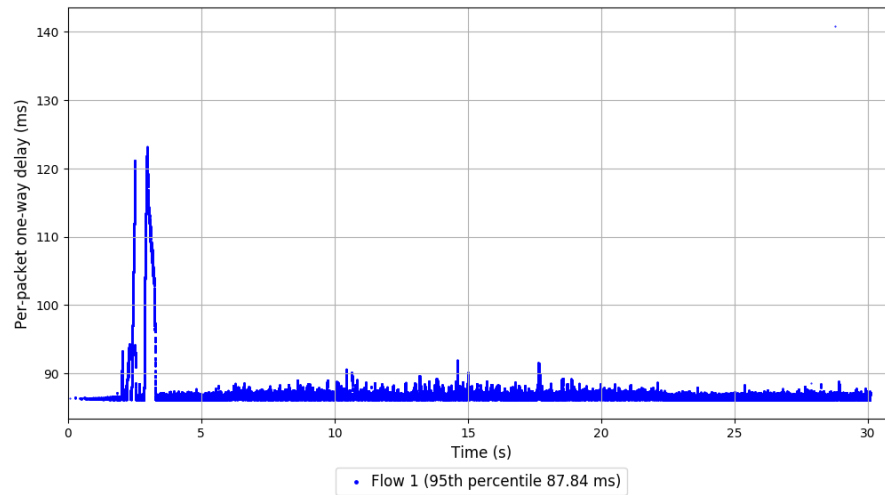
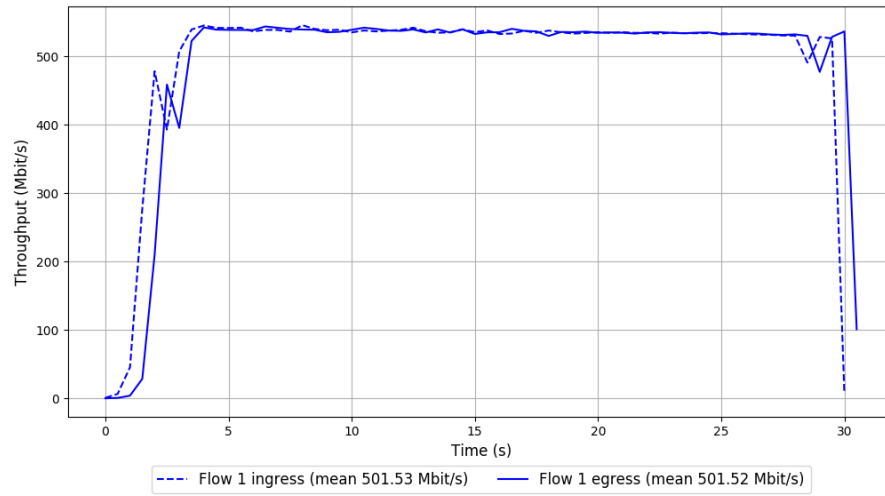


Run 9: Statistics of TCP Vegas

Start at: 2018-08-27 10:22:55
End at: 2018-08-27 10:23:25
Local clock offset: -0.014 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-08-27 13:44:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 501.52 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 501.52 Mbit/s
95th percentile per-packet one-way delay: 87.842 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-27 10:47:21

End at: 2018-08-27 10:47:51

Local clock offset: 0.042 ms

Remote clock offset: -0.067 ms

Below is generated by plot.py at 2018-08-27 13:46:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.97 Mbit/s

95th percentile per-packet one-way delay: 87.549 ms

Loss rate: 0.00%

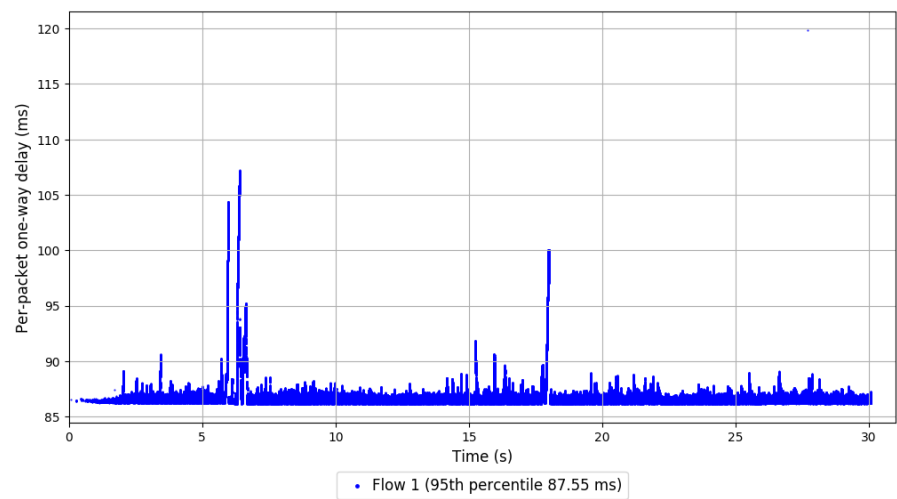
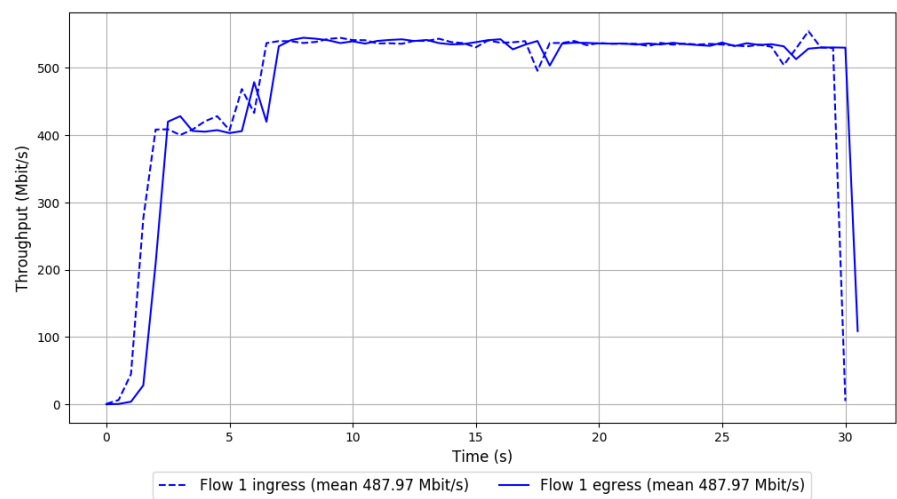
-- Flow 1:

Average throughput: 487.97 Mbit/s

95th percentile per-packet one-way delay: 87.549 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-08-27 07:15:09

End at: 2018-08-27 07:15:39

Local clock offset: 8.839 ms

Remote clock offset: 8.649 ms

Below is generated by plot.py at 2018-08-27 13:46:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 217.65 Mbit/s

95th percentile per-packet one-way delay: 226.257 ms

Loss rate: 10.51%

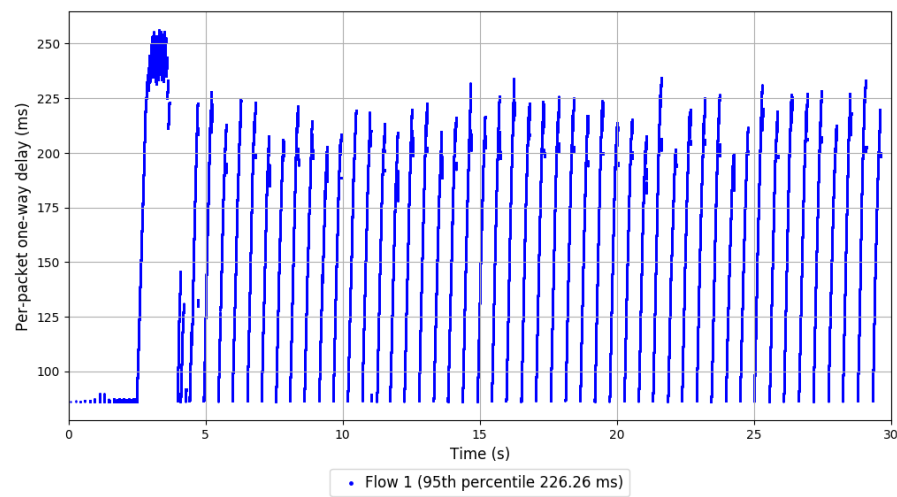
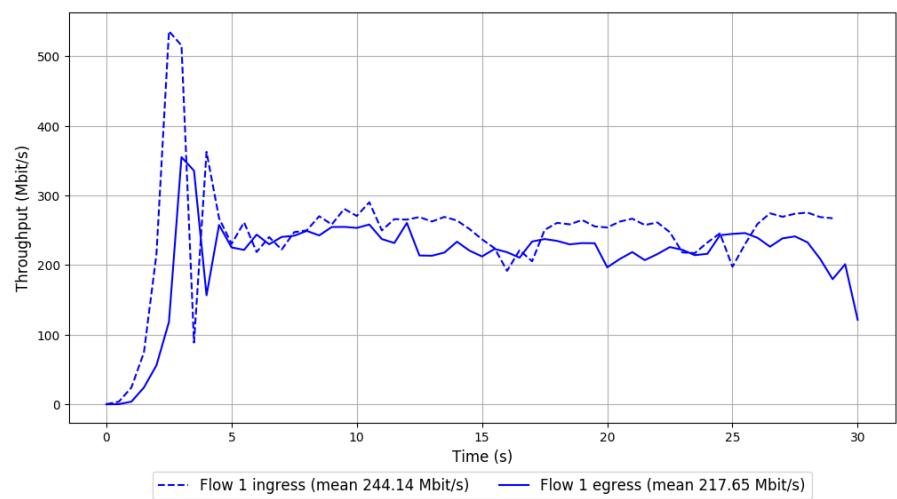
-- Flow 1:

Average throughput: 217.65 Mbit/s

95th percentile per-packet one-way delay: 226.257 ms

Loss rate: 10.51%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-27 07:39:22

End at: 2018-08-27 07:39:52

Local clock offset: 8.481 ms

Remote clock offset: 8.568 ms

Below is generated by plot.py at 2018-08-27 13:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 222.079 ms

Loss rate: 9.57%

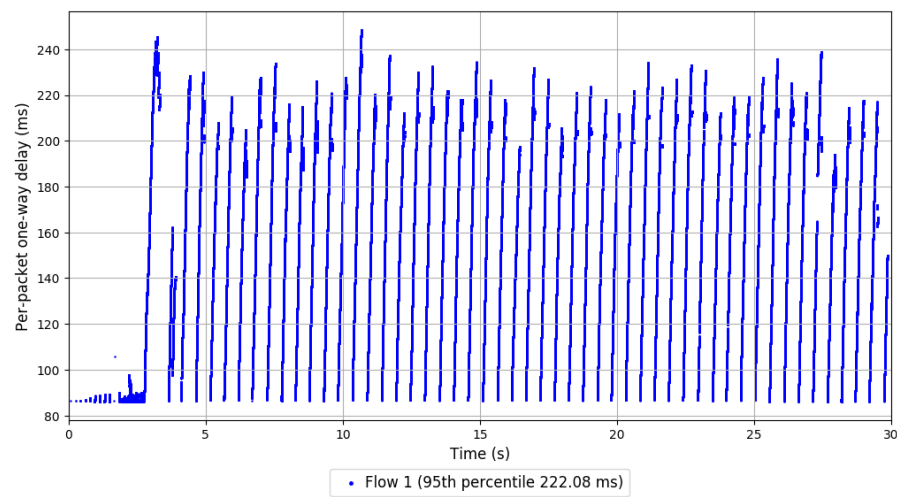
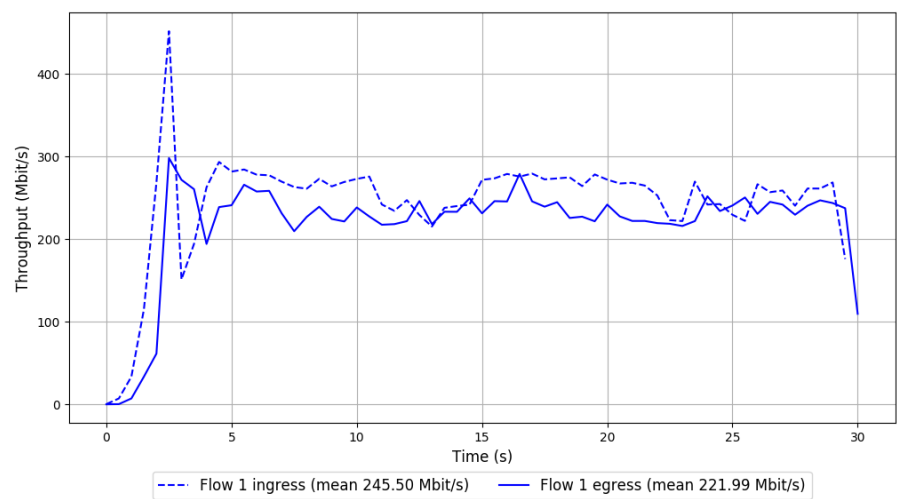
-- Flow 1:

Average throughput: 221.99 Mbit/s

95th percentile per-packet one-way delay: 222.079 ms

Loss rate: 9.57%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-08-27 08:03:58

End at: 2018-08-27 08:04:28

Local clock offset: 1.866 ms

Remote clock offset: 3.933 ms

Below is generated by plot.py at 2018-08-27 13:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.08 Mbit/s

95th percentile per-packet one-way delay: 192.490 ms

Loss rate: 0.35%

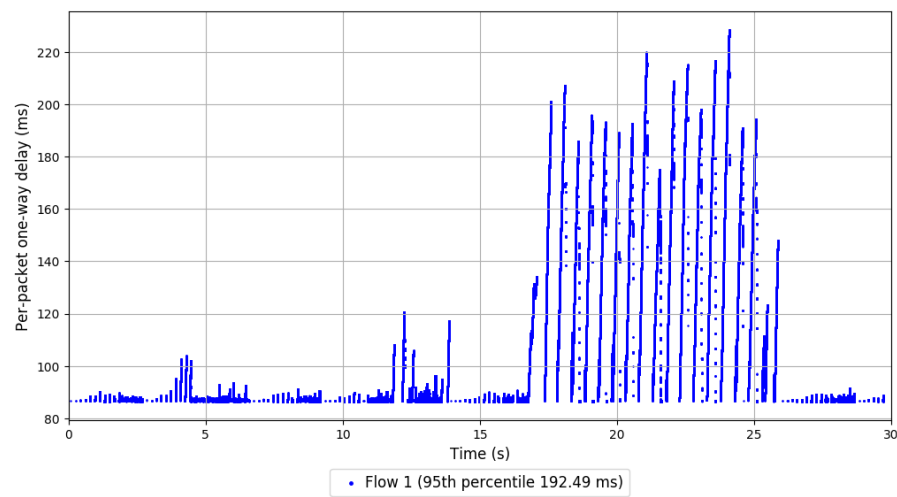
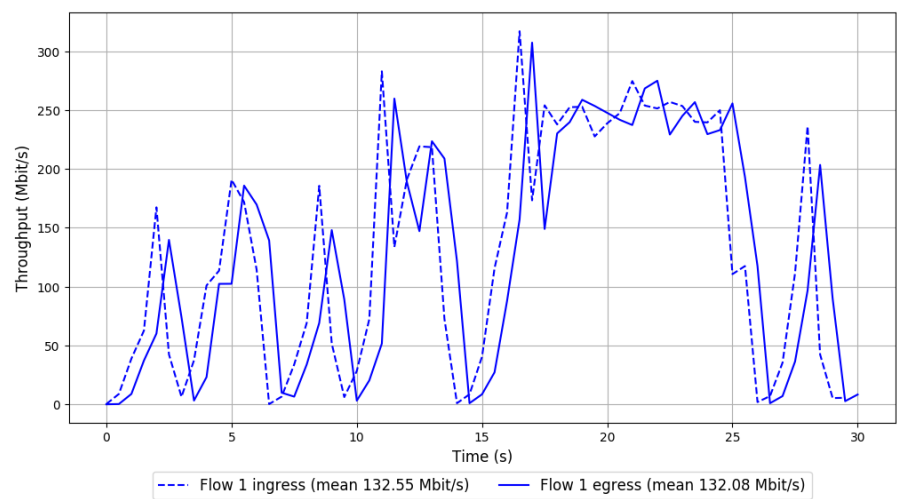
-- Flow 1:

Average throughput: 132.08 Mbit/s

95th percentile per-packet one-way delay: 192.490 ms

Loss rate: 0.35%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-08-27 08:28:12

End at: 2018-08-27 08:28:42

Local clock offset: 0.761 ms

Remote clock offset: 1.179 ms

Below is generated by plot.py at 2018-08-27 13:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.44 Mbit/s

95th percentile per-packet one-way delay: 111.716 ms

Loss rate: 0.00%

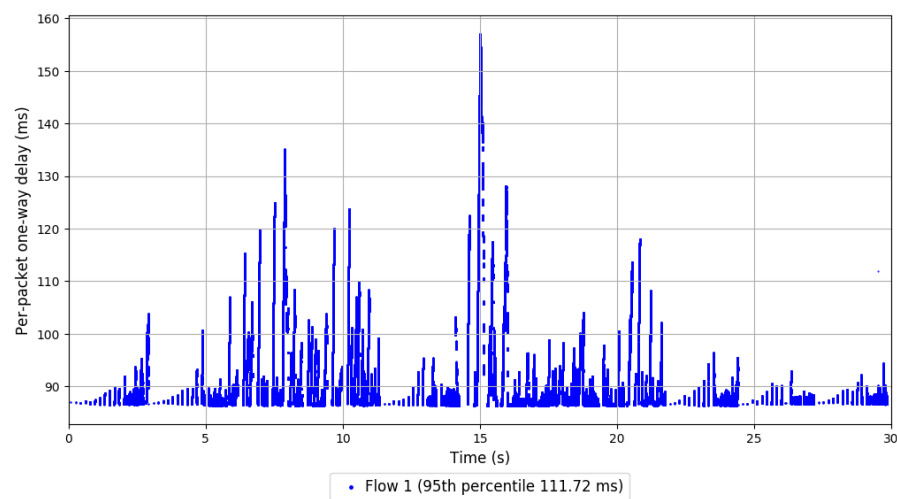
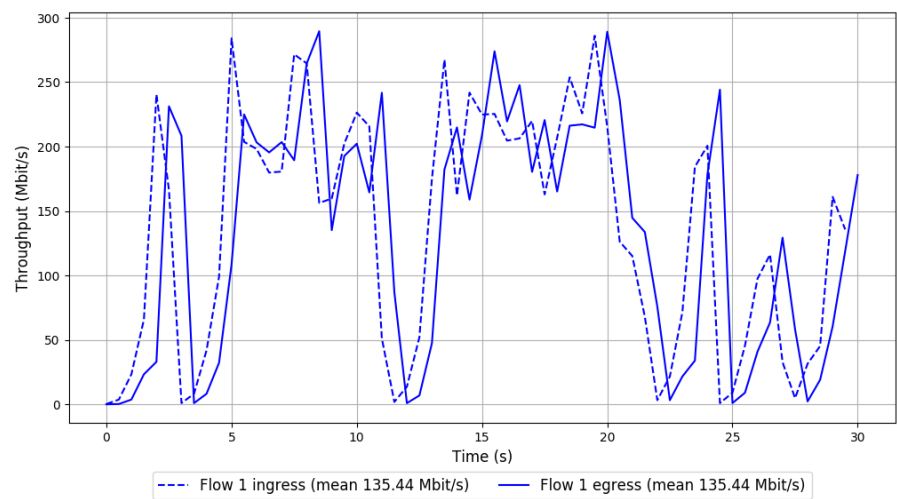
-- Flow 1:

Average throughput: 135.44 Mbit/s

95th percentile per-packet one-way delay: 111.716 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-08-27 08:52:26

End at: 2018-08-27 08:52:56

Local clock offset: 0.366 ms

Remote clock offset: 0.614 ms

Below is generated by plot.py at 2018-08-27 13:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 184.07 Mbit/s

95th percentile per-packet one-way delay: 171.099 ms

Loss rate: 0.83%

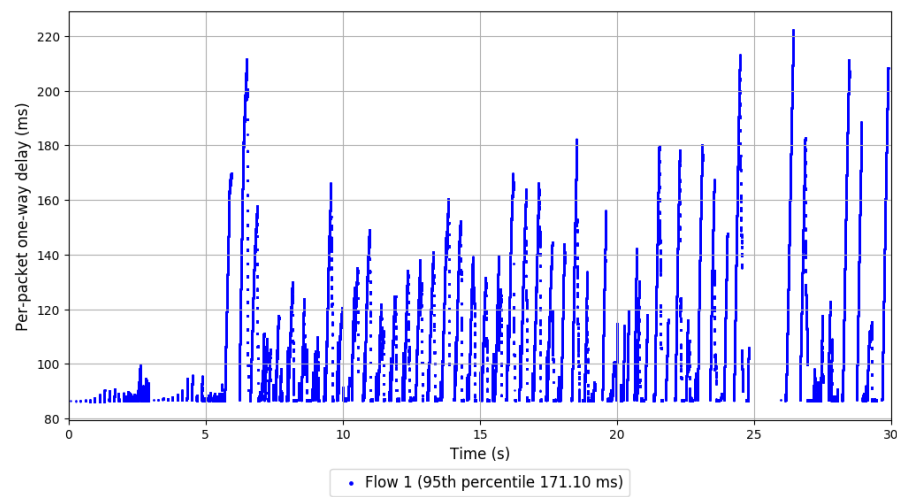
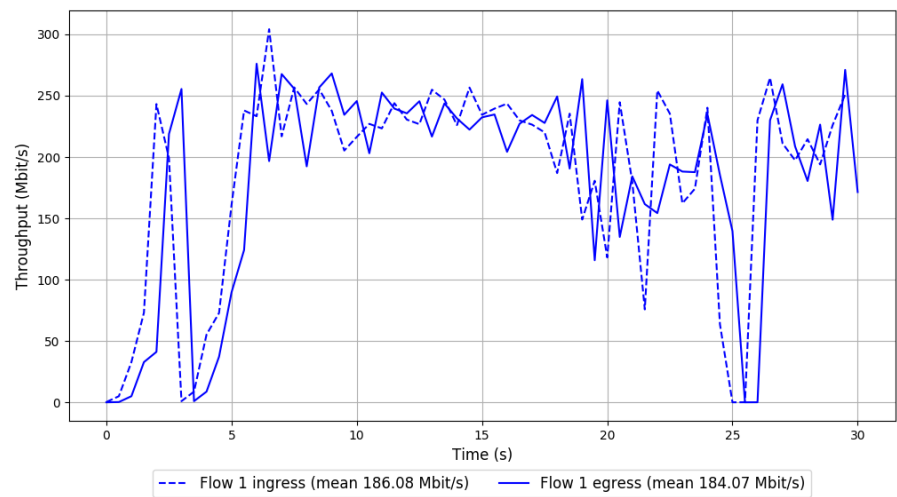
-- Flow 1:

Average throughput: 184.07 Mbit/s

95th percentile per-packet one-way delay: 171.099 ms

Loss rate: 0.83%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-08-27 09:16:57

End at: 2018-08-27 09:17:27

Local clock offset: 0.469 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2018-08-27 13:48:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 166.48 Mbit/s

95th percentile per-packet one-way delay: 220.954 ms

Loss rate: 4.91%

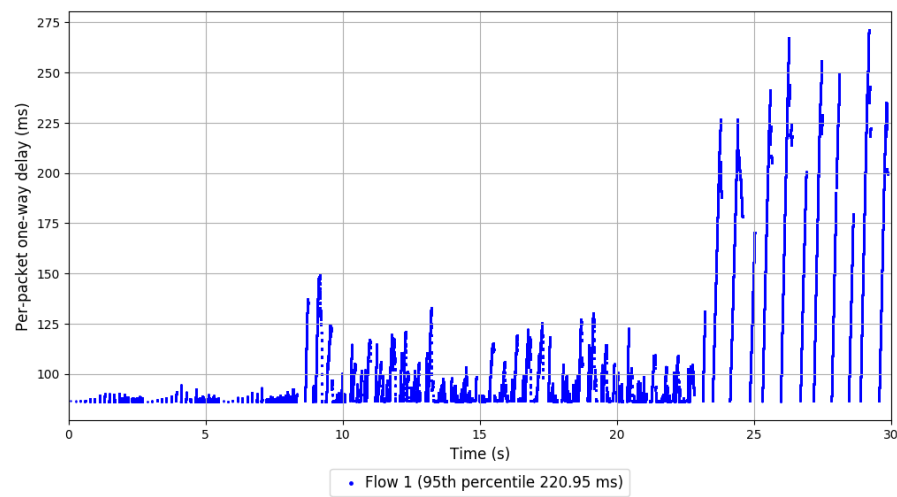
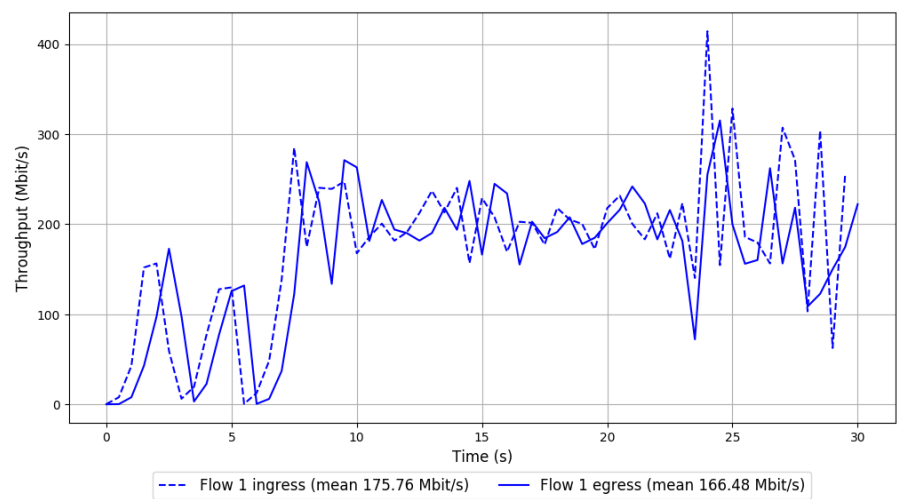
-- Flow 1:

Average throughput: 166.48 Mbit/s

95th percentile per-packet one-way delay: 220.954 ms

Loss rate: 4.91%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-08-27 09:41:17

End at: 2018-08-27 09:41:47

Local clock offset: 0.622 ms

Remote clock offset: 0.164 ms

Below is generated by plot.py at 2018-08-27 13:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 140.03 Mbit/s

95th percentile per-packet one-way delay: 140.645 ms

Loss rate: 0.07%

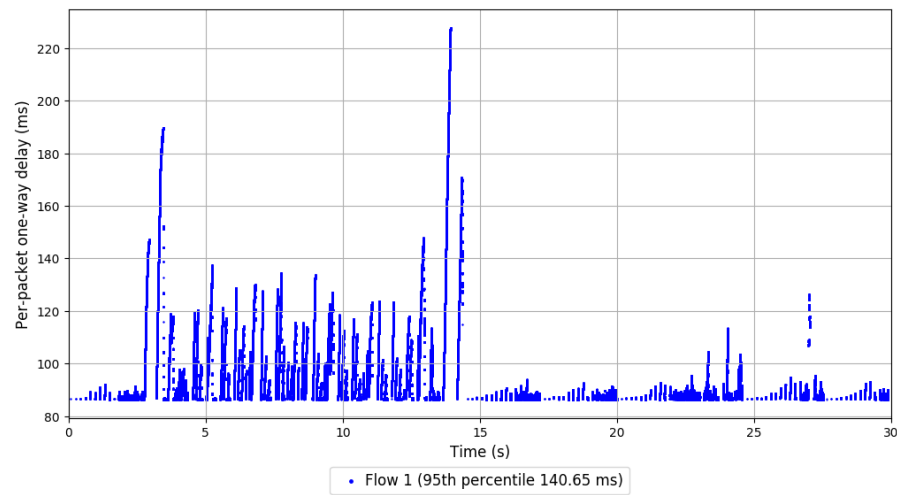
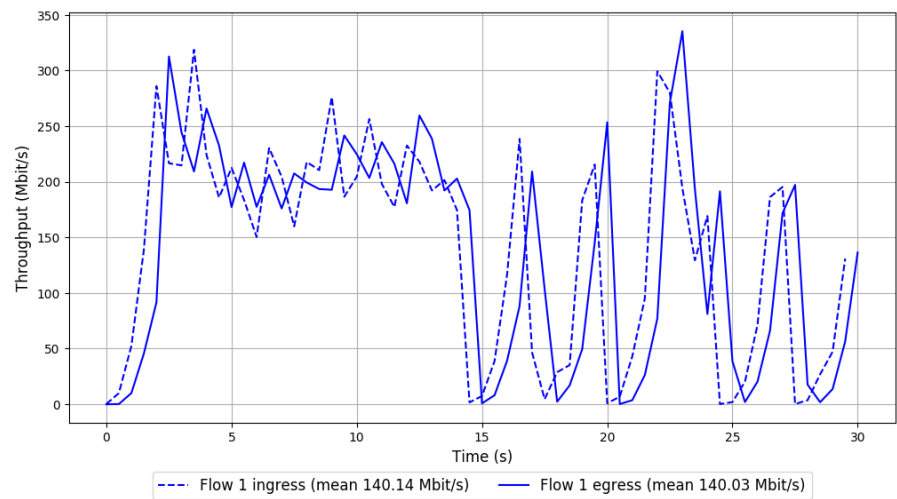
-- Flow 1:

Average throughput: 140.03 Mbit/s

95th percentile per-packet one-way delay: 140.645 ms

Loss rate: 0.07%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-08-27 10:05:36

End at: 2018-08-27 10:06:06

Local clock offset: 0.031 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-08-27 13:50:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.72 Mbit/s

95th percentile per-packet one-way delay: 132.761 ms

Loss rate: 0.00%

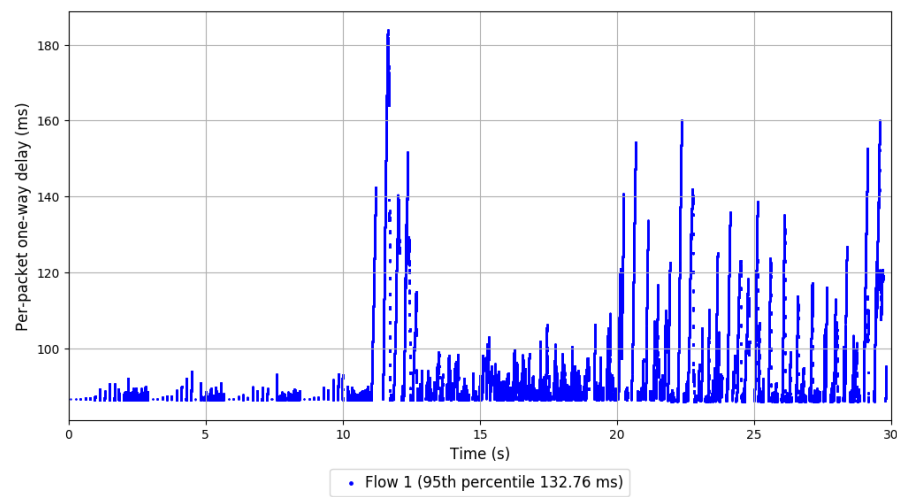
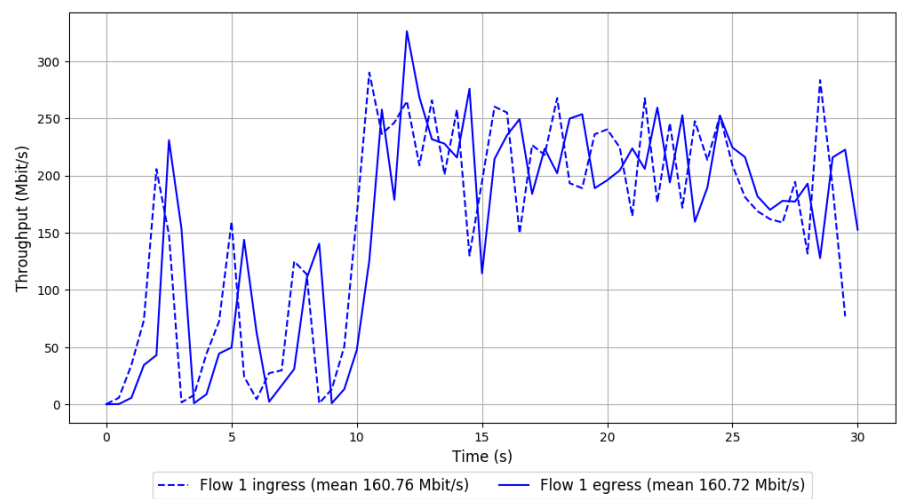
-- Flow 1:

Average throughput: 160.72 Mbit/s

95th percentile per-packet one-way delay: 132.761 ms

Loss rate: 0.00%

Run 8: Report of Verus — Data Link

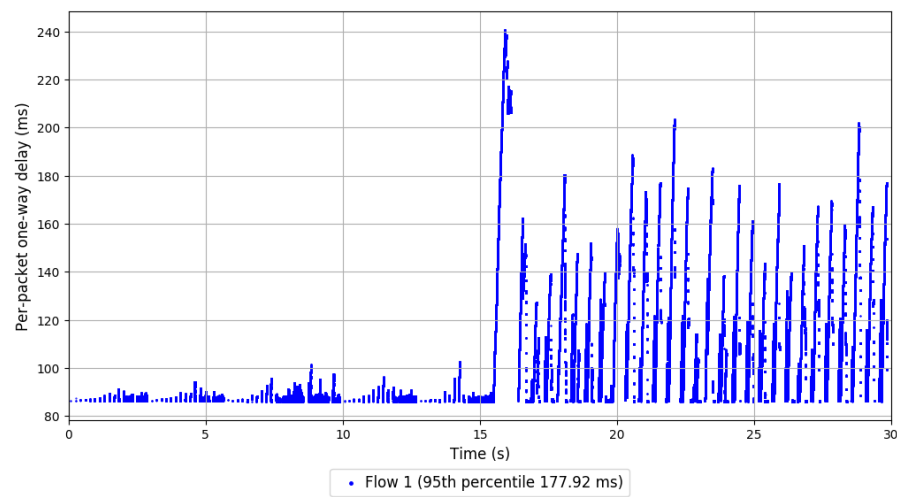
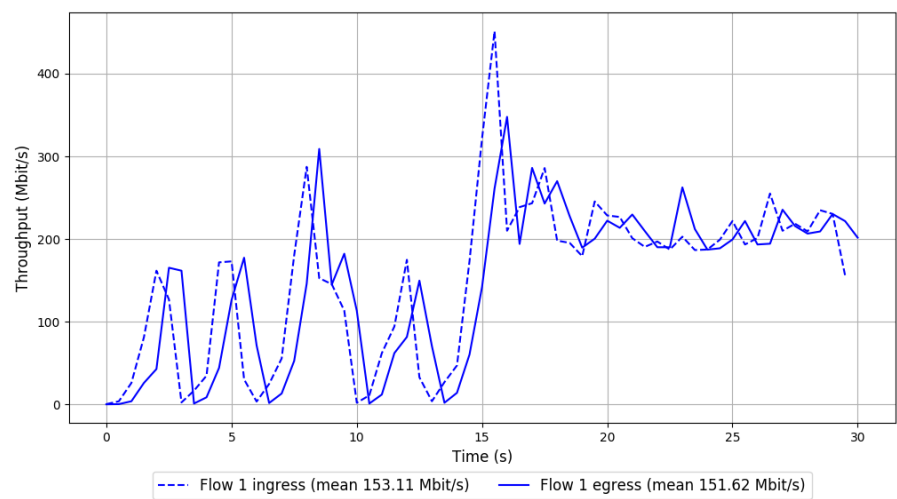


Run 9: Statistics of Verus

Start at: 2018-08-27 10:30:01
End at: 2018-08-27 10:30:31
Local clock offset: -0.246 ms
Remote clock offset: -0.028 ms

Below is generated by plot.py at 2018-08-27 13:50:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 151.62 Mbit/s
95th percentile per-packet one-way delay: 177.922 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 151.62 Mbit/s
95th percentile per-packet one-way delay: 177.922 ms
Loss rate: 0.93%

Run 9: Report of Verus — Data Link

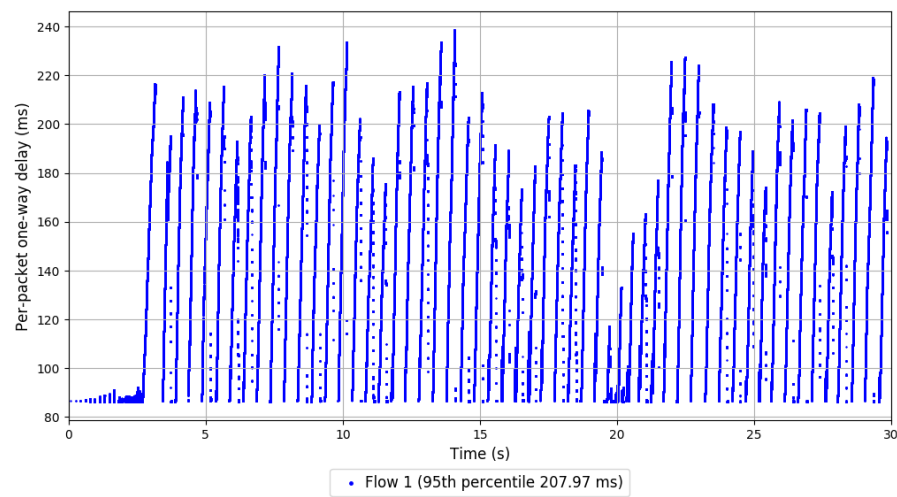
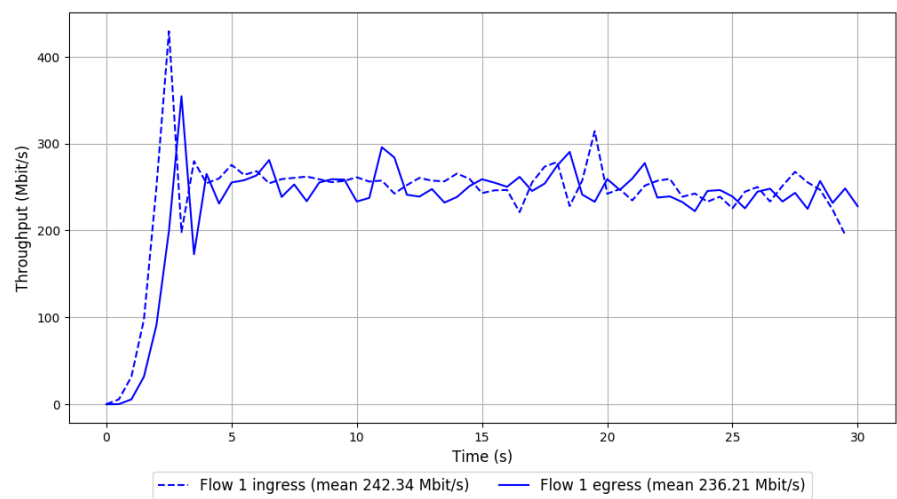


Run 10: Statistics of Verus

Start at: 2018-08-27 10:54:28
End at: 2018-08-27 10:54:58
Local clock offset: 0.012 ms
Remote clock offset: -0.053 ms

Below is generated by plot.py at 2018-08-27 13:54:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 236.21 Mbit/s
95th percentile per-packet one-way delay: 207.967 ms
Loss rate: 2.30%
-- Flow 1:
Average throughput: 236.21 Mbit/s
95th percentile per-packet one-way delay: 207.967 ms
Loss rate: 2.30%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-08-27 07:13:34

End at: 2018-08-27 07:14:05

Local clock offset: 9.402 ms

Remote clock offset: 9.267 ms

Below is generated by plot.py at 2018-08-27 13:54:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.69 Mbit/s

95th percentile per-packet one-way delay: 112.154 ms

Loss rate: 0.00%

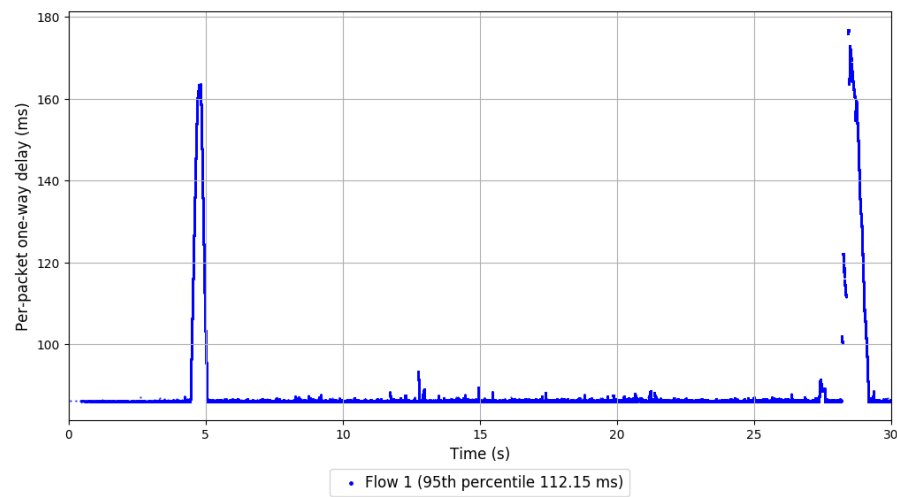
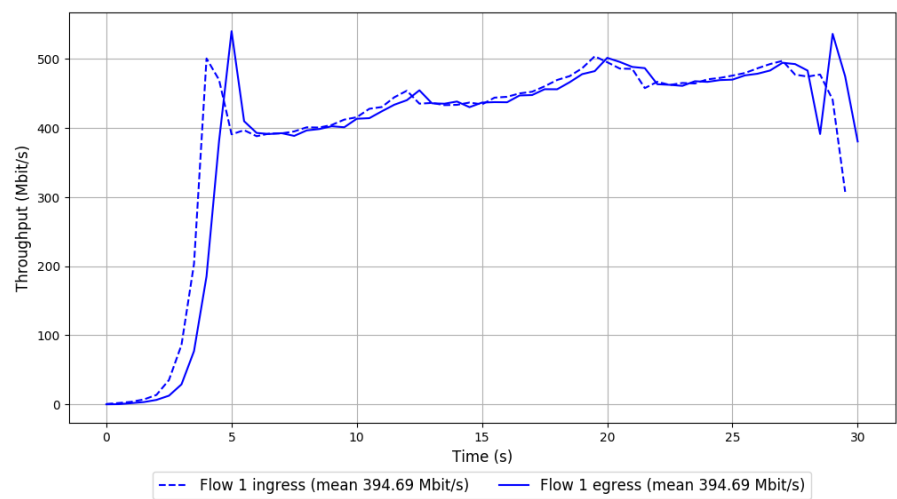
-- Flow 1:

Average throughput: 394.69 Mbit/s

95th percentile per-packet one-way delay: 112.154 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-08-27 07:37:54

End at: 2018-08-27 07:38:24

Local clock offset: 9.678 ms

Remote clock offset: 10.051 ms

Below is generated by plot.py at 2018-08-27 13:54:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 305.58 Mbit/s

95th percentile per-packet one-way delay: 86.859 ms

Loss rate: 0.00%

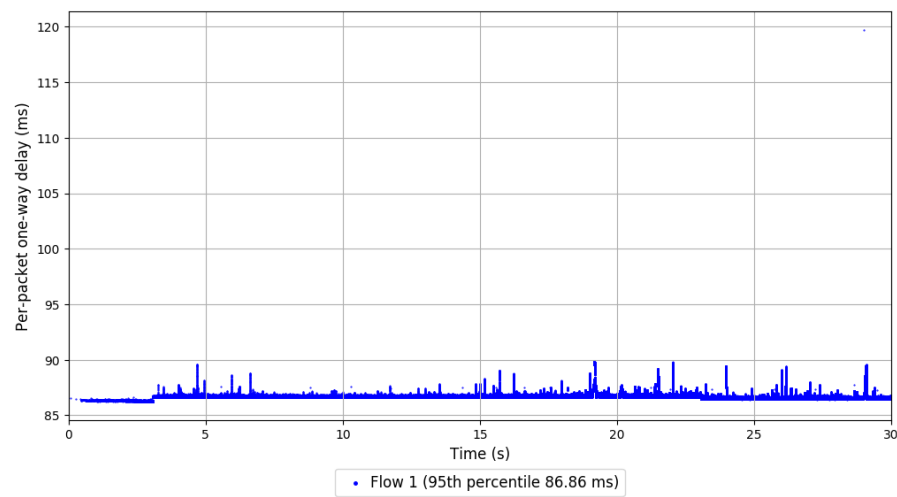
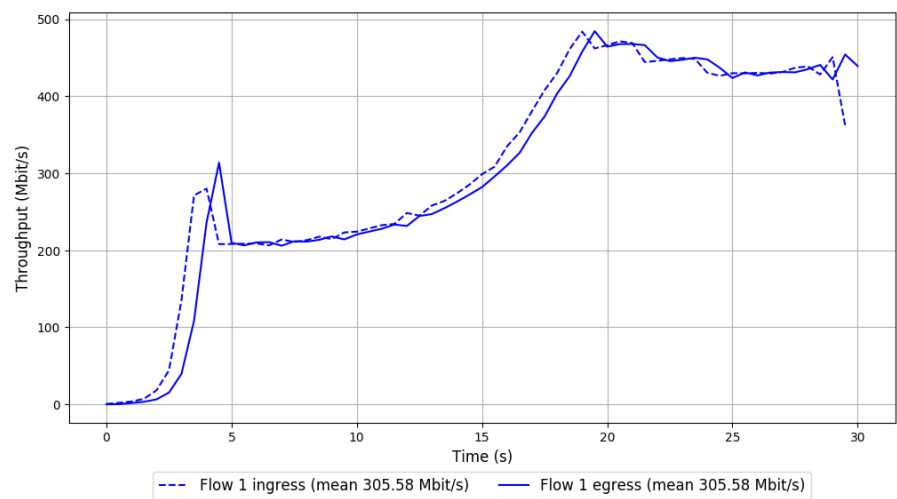
-- Flow 1:

Average throughput: 305.58 Mbit/s

95th percentile per-packet one-way delay: 86.859 ms

Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-08-27 08:02:25

End at: 2018-08-27 08:02:55

Local clock offset: 2.013 ms

Remote clock offset: 3.798 ms

Below is generated by plot.py at 2018-08-27 13:55:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 387.76 Mbit/s

95th percentile per-packet one-way delay: 87.094 ms

Loss rate: 0.02%

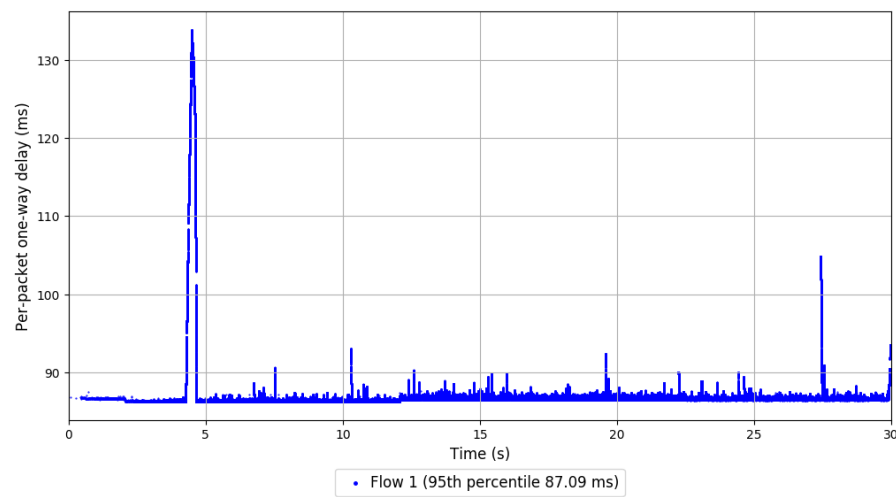
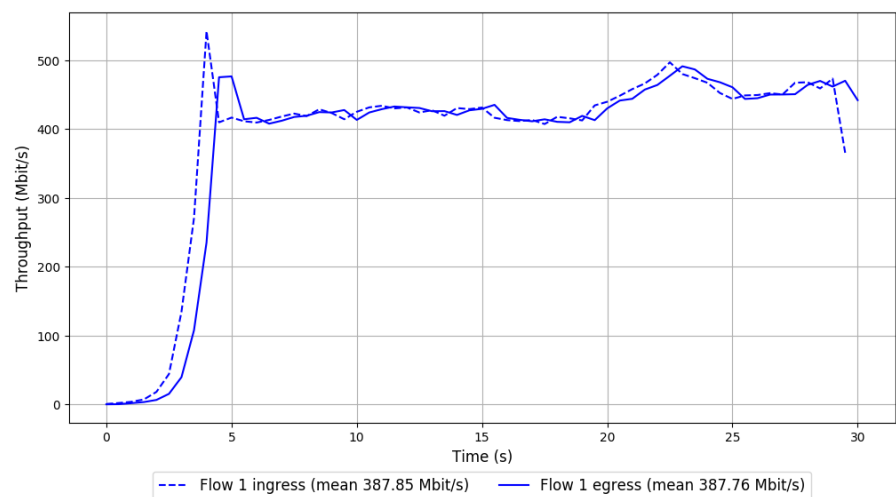
-- Flow 1:

Average throughput: 387.76 Mbit/s

95th percentile per-packet one-way delay: 87.094 ms

Loss rate: 0.02%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-27 08:26:38

End at: 2018-08-27 08:27:08

Local clock offset: 0.751 ms

Remote clock offset: 1.26 ms

Below is generated by plot.py at 2018-08-27 13:56:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 401.88 Mbit/s

95th percentile per-packet one-way delay: 88.544 ms

Loss rate: 0.00%

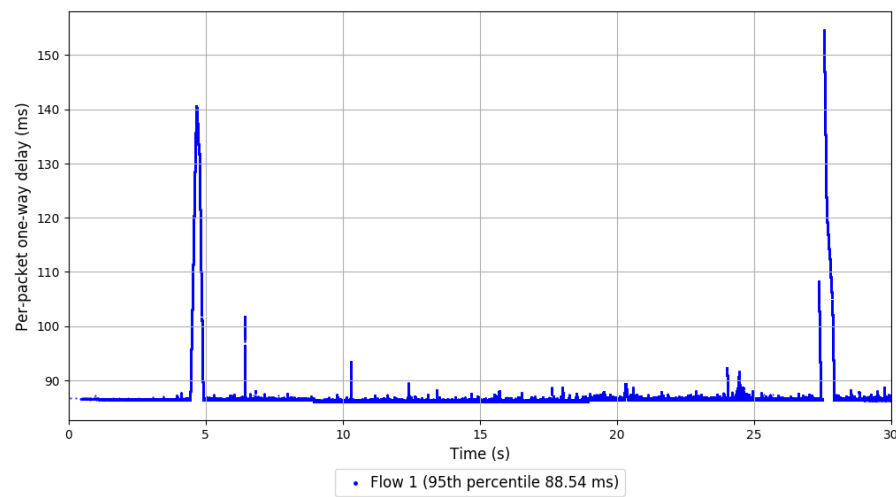
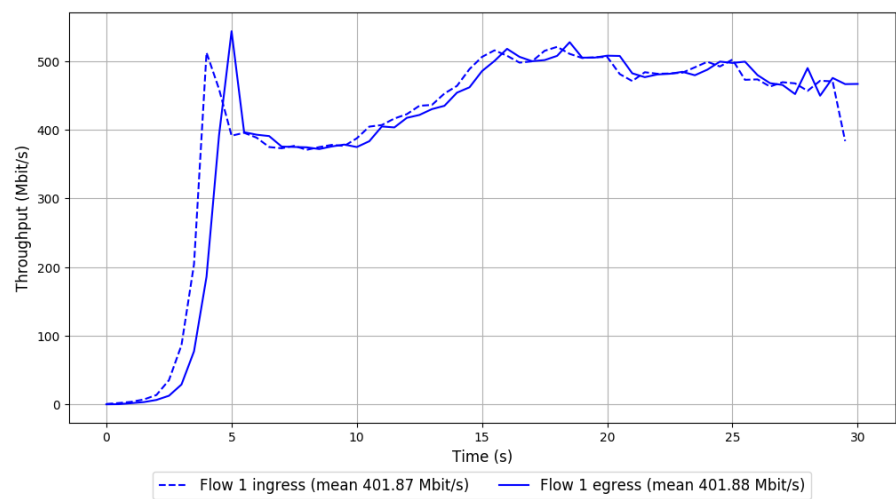
-- Flow 1:

Average throughput: 401.88 Mbit/s

95th percentile per-packet one-way delay: 88.544 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-27 08:50:51

End at: 2018-08-27 08:51:21

Local clock offset: 0.35 ms

Remote clock offset: 0.677 ms

Below is generated by plot.py at 2018-08-27 13:57:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 409.69 Mbit/s

95th percentile per-packet one-way delay: 91.779 ms

Loss rate: 0.00%

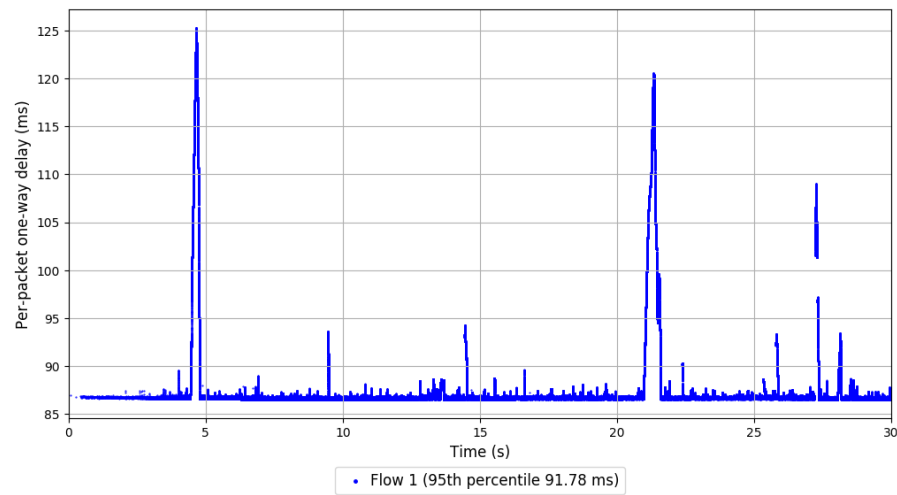
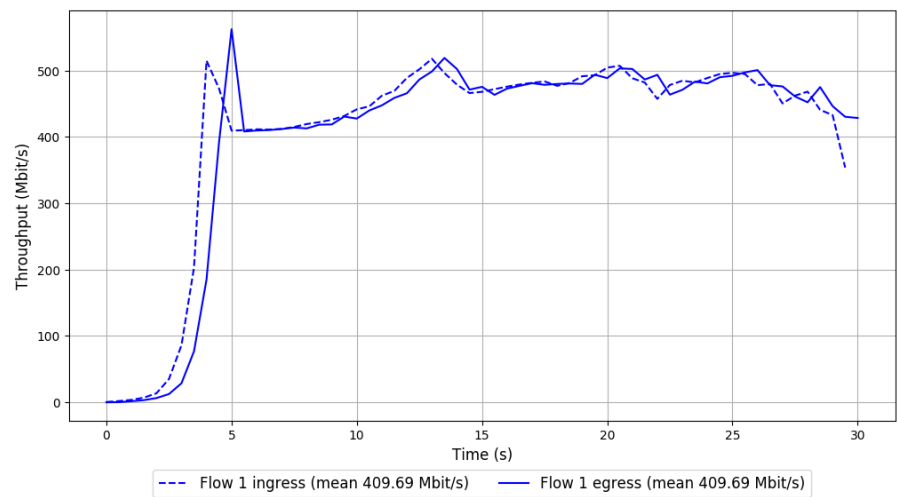
-- Flow 1:

Average throughput: 409.69 Mbit/s

95th percentile per-packet one-way delay: 91.779 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-27 09:15:25

End at: 2018-08-27 09:15:55

Local clock offset: 0.323 ms

Remote clock offset: 0.496 ms

Below is generated by plot.py at 2018-08-27 13:57:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.80 Mbit/s

95th percentile per-packet one-way delay: 89.626 ms

Loss rate: 0.00%

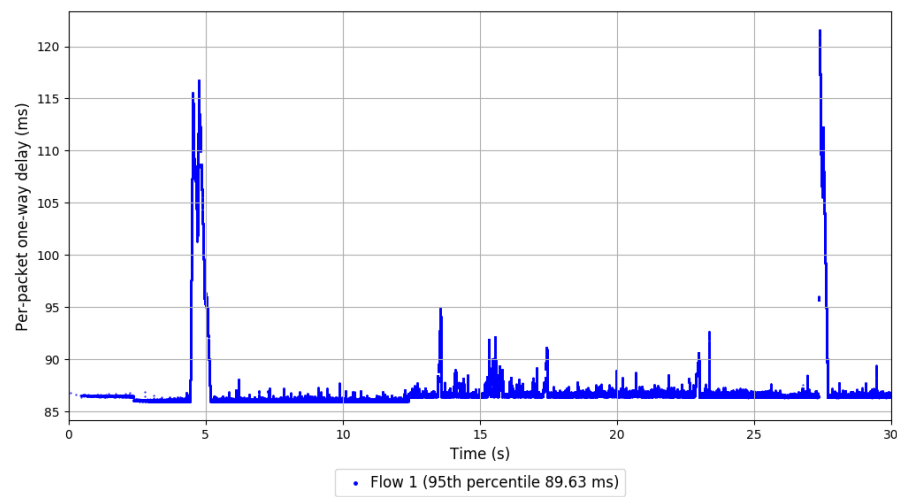
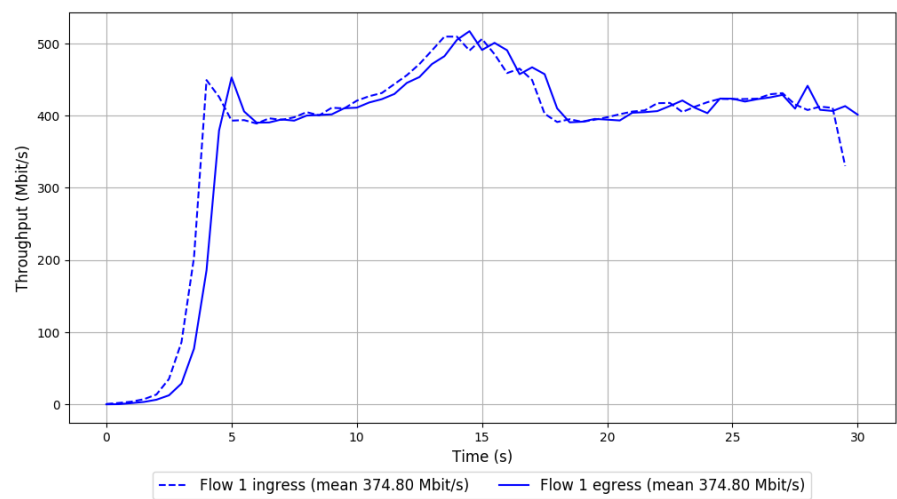
-- Flow 1:

Average throughput: 374.80 Mbit/s

95th percentile per-packet one-way delay: 89.626 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-27 09:39:44

End at: 2018-08-27 09:40:14

Local clock offset: 0.748 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-08-27 13:57:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 380.09 Mbit/s

95th percentile per-packet one-way delay: 87.426 ms

Loss rate: 0.00%

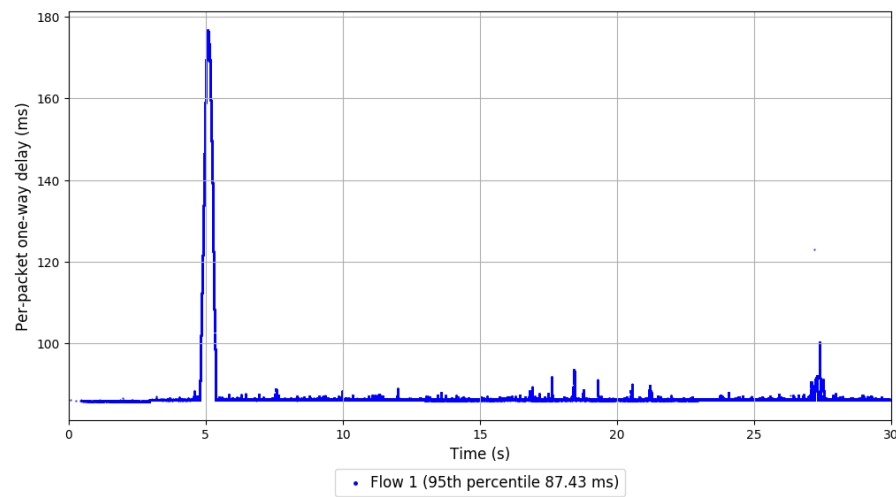
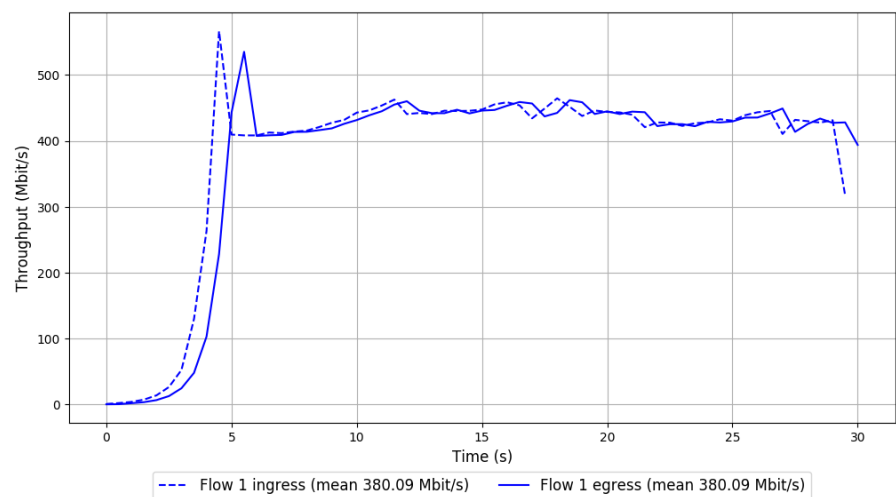
-- Flow 1:

Average throughput: 380.09 Mbit/s

95th percentile per-packet one-way delay: 87.426 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-27 10:04:02

End at: 2018-08-27 10:04:32

Local clock offset: 0.318 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-08-27 13:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 392.03 Mbit/s

95th percentile per-packet one-way delay: 91.868 ms

Loss rate: 0.00%

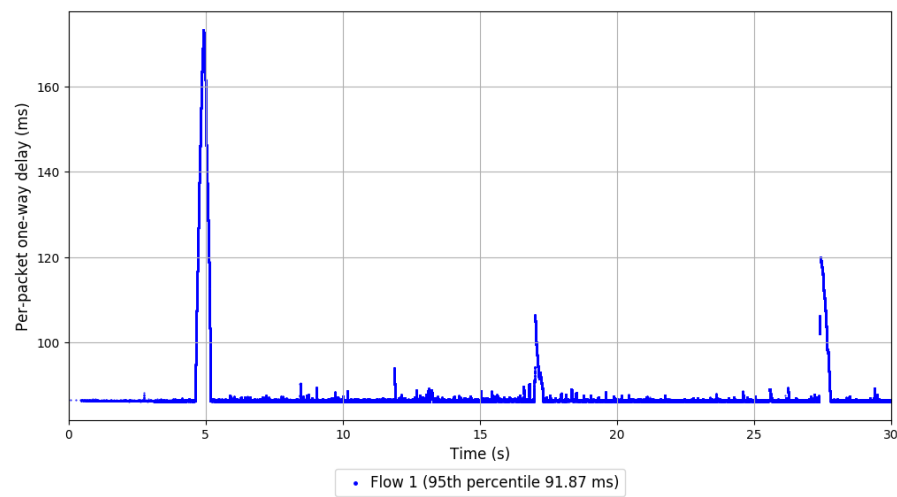
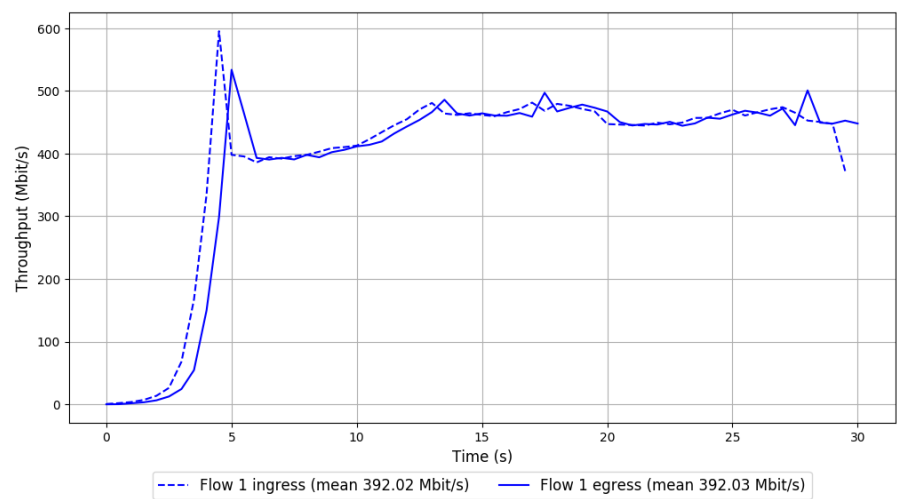
-- Flow 1:

Average throughput: 392.03 Mbit/s

95th percentile per-packet one-way delay: 91.868 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-27 10:28:28

End at: 2018-08-27 10:28:58

Local clock offset: -0.05 ms

Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-08-27 13:58:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.10 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 0.00%

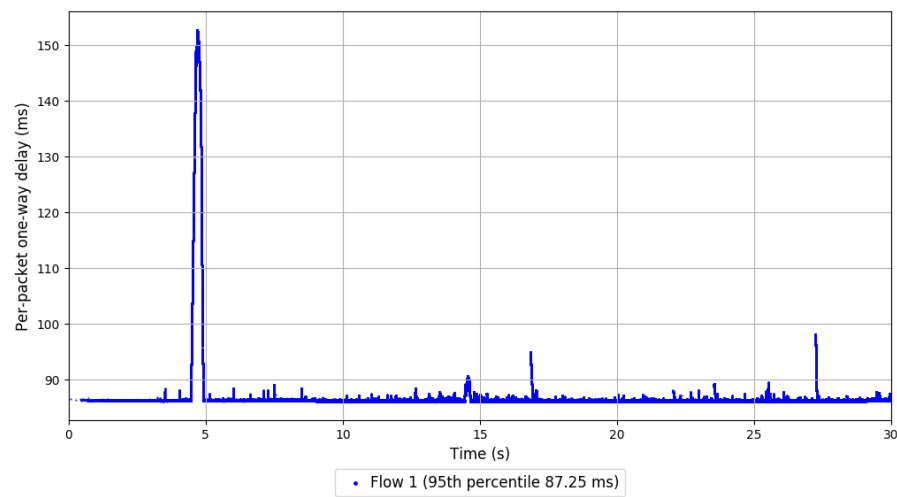
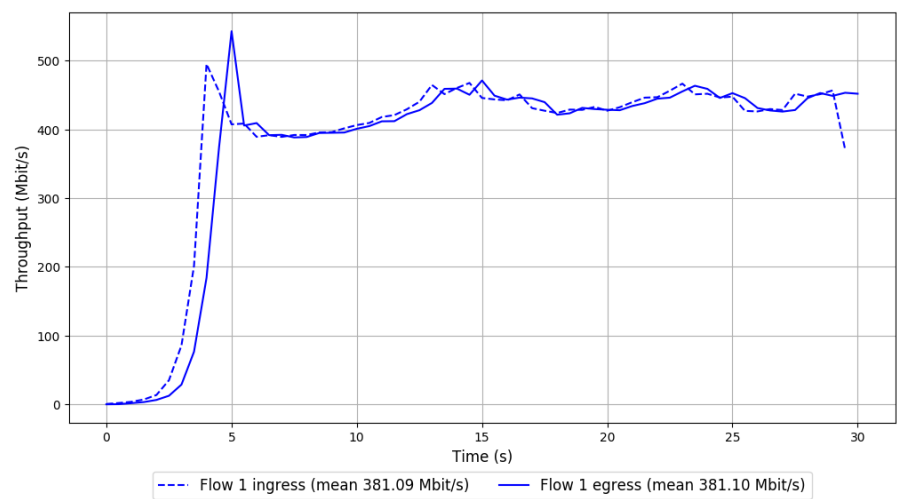
-- Flow 1:

Average throughput: 381.10 Mbit/s

95th percentile per-packet one-way delay: 87.255 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-27 10:52:54

End at: 2018-08-27 10:53:24

Local clock offset: -0.233 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 396.57 Mbit/s

95th percentile per-packet one-way delay: 90.074 ms

Loss rate: 0.00%

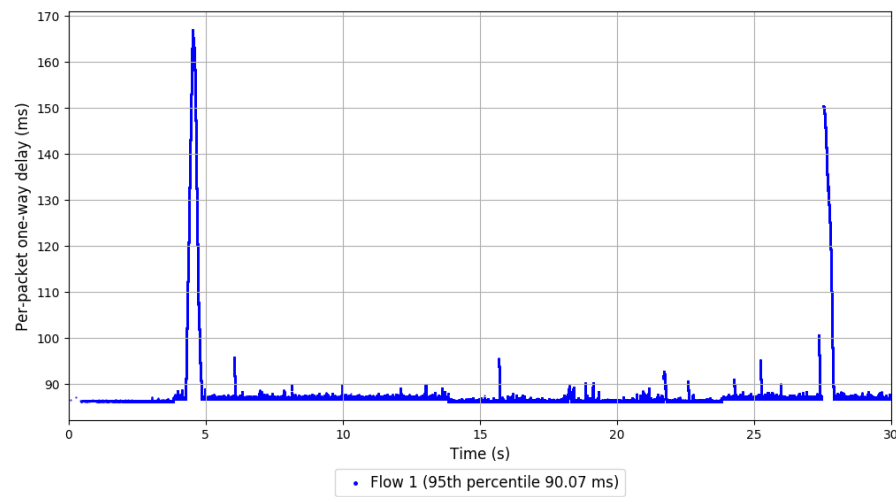
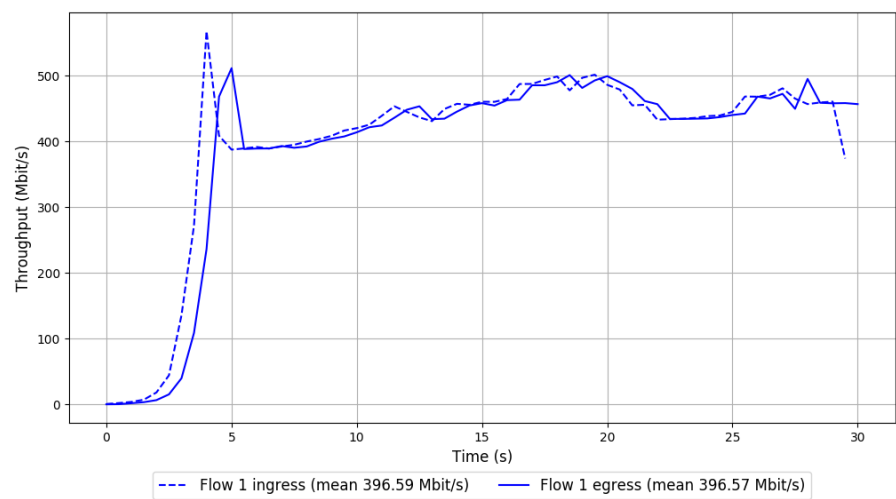
-- Flow 1:

Average throughput: 396.57 Mbit/s

95th percentile per-packet one-way delay: 90.074 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

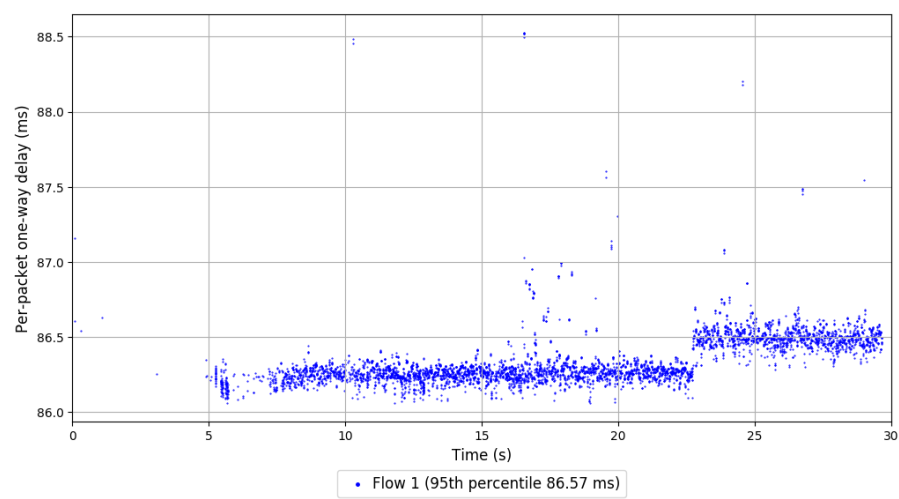
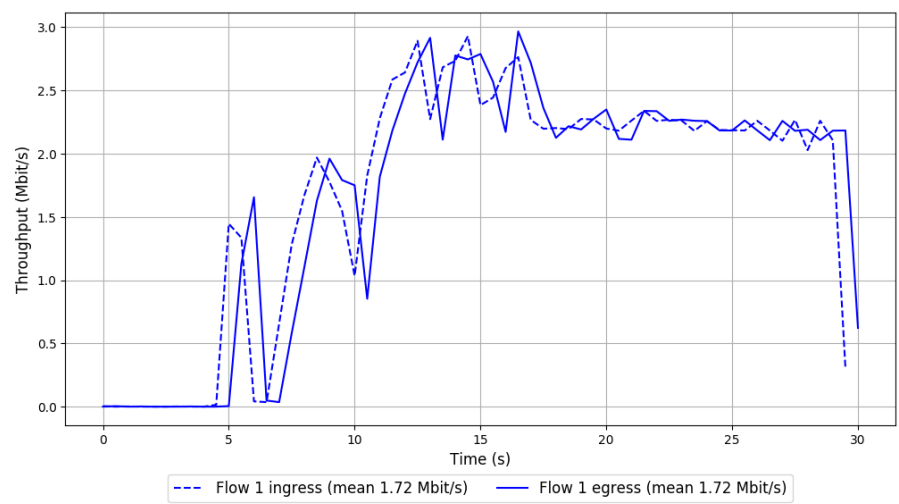


Run 1: Statistics of WebRTC media

Start at: 2018-08-27 07:01:14
End at: 2018-08-27 07:01:44
Local clock offset: 19.198 ms
Remote clock offset: 19.644 ms

Below is generated by plot.py at 2018-08-27 13:58:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 86.570 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.72 Mbit/s
95th percentile per-packet one-way delay: 86.570 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-08-27 07:25:21

End at: 2018-08-27 07:25:51

Local clock offset: 7.434 ms

Remote clock offset: 7.748 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 0.00%

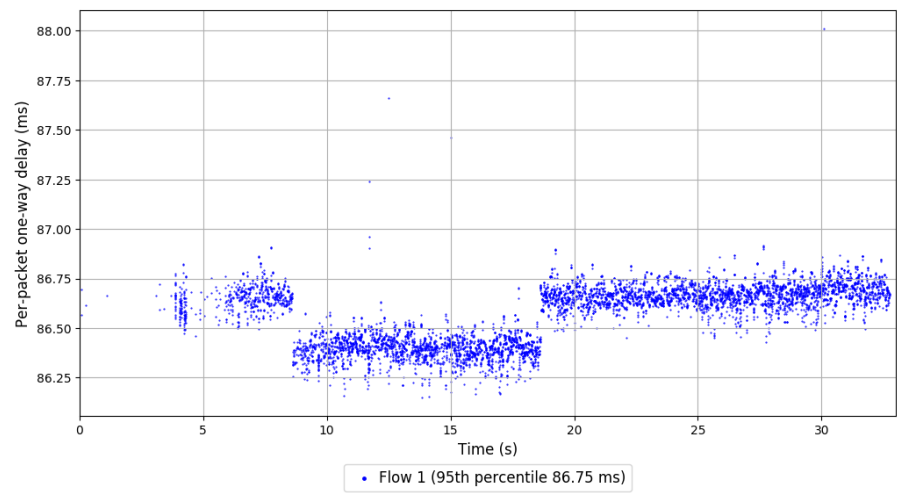
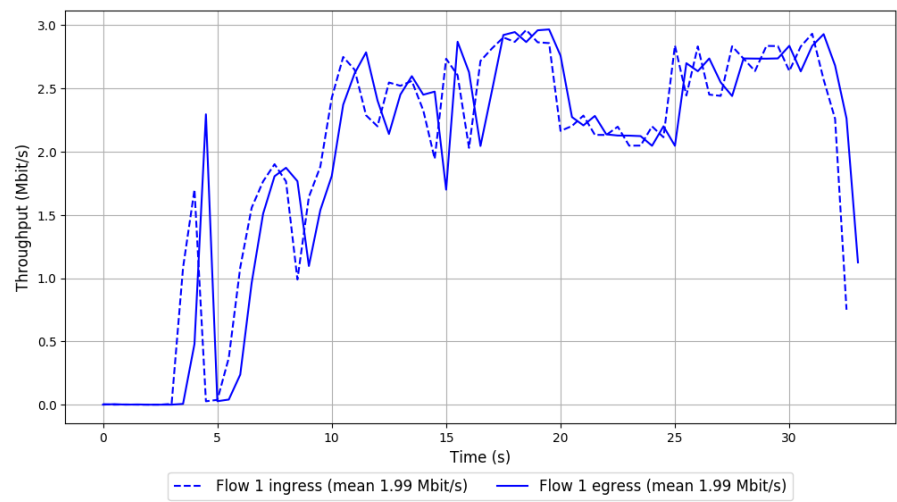
-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 86.753 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-08-27 07:49:53

End at: 2018-08-27 07:50:23

Local clock offset: 3.371 ms

Remote clock offset: 4.041 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 86.402 ms

Loss rate: 0.00%

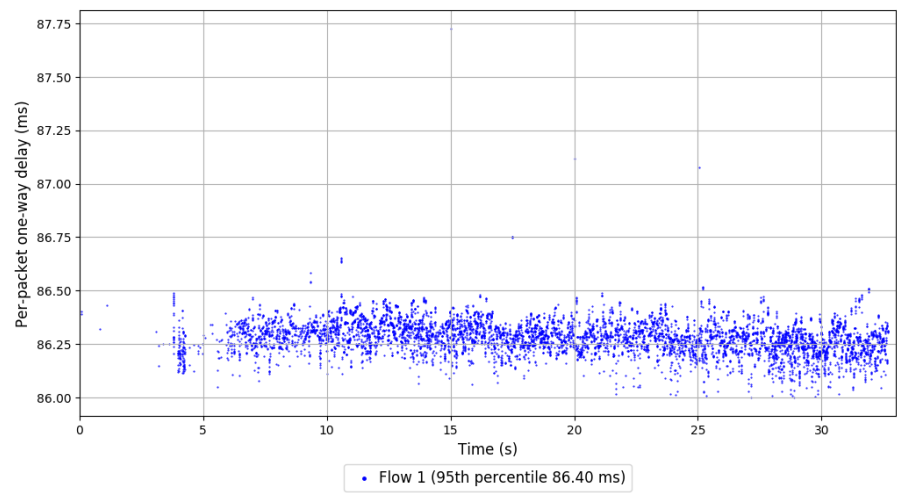
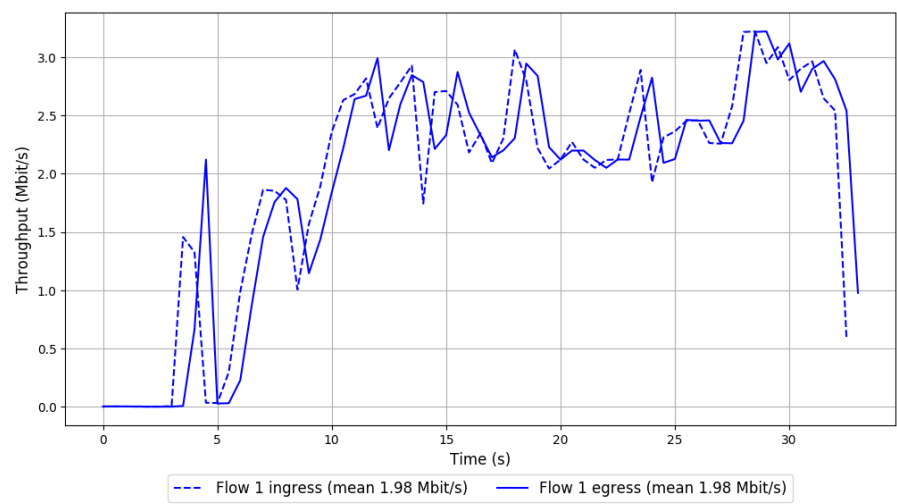
-- Flow 1:

Average throughput: 1.98 Mbit/s

95th percentile per-packet one-way delay: 86.402 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

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

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

Local clock offset: 1.575 ms

Remote clock offset: 3.739 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 87.076 ms

Loss rate: 0.00%

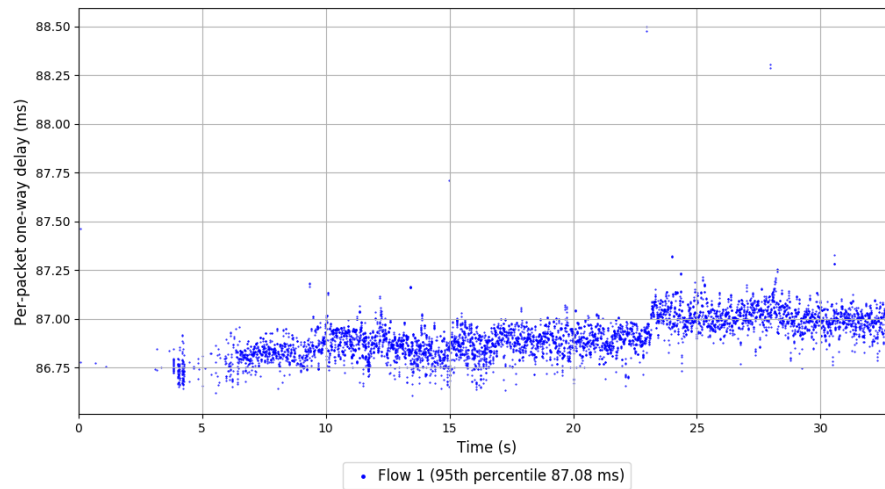
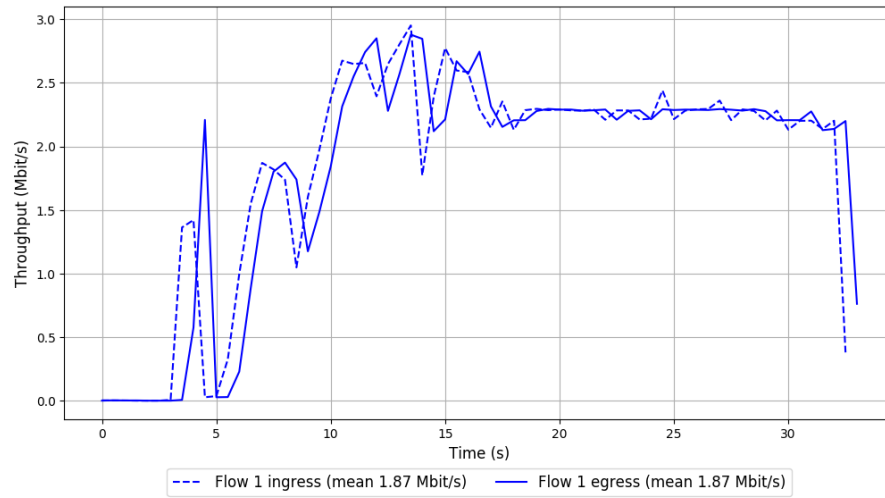
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 87.076 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-27 08:38:15

End at: 2018-08-27 08:38:45

Local clock offset: 0.614 ms

Remote clock offset: 0.989 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

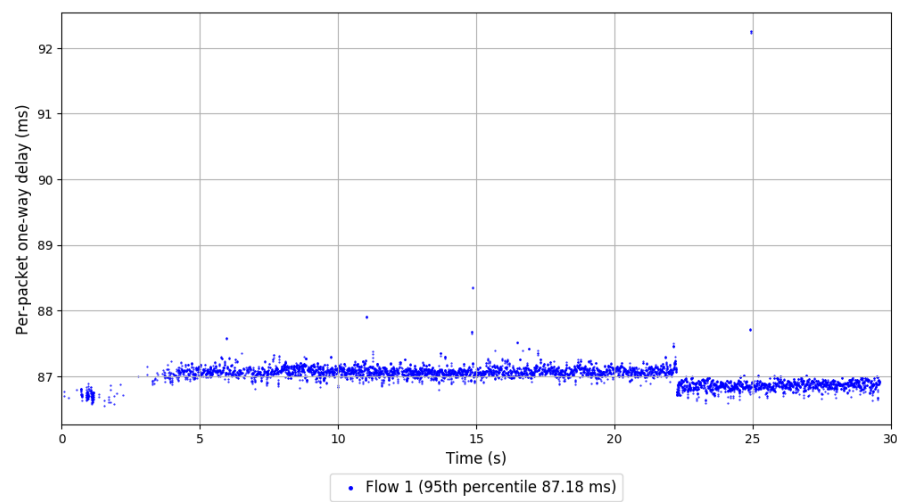
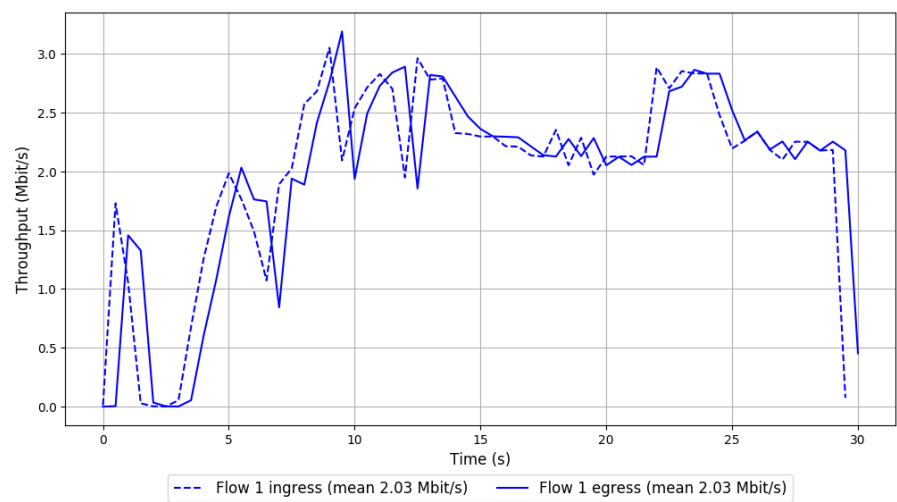
-- Flow 1:

Average throughput: 2.03 Mbit/s

95th percentile per-packet one-way delay: 87.177 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-08-27 09:02:42

End at: 2018-08-27 09:03:12

Local clock offset: 0.364 ms

Remote clock offset: 0.421 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 86.719 ms

Loss rate: 0.00%

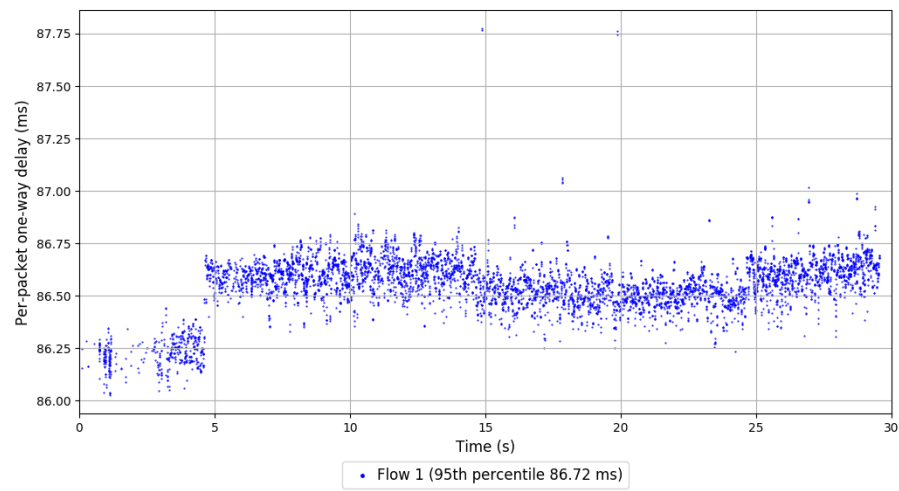
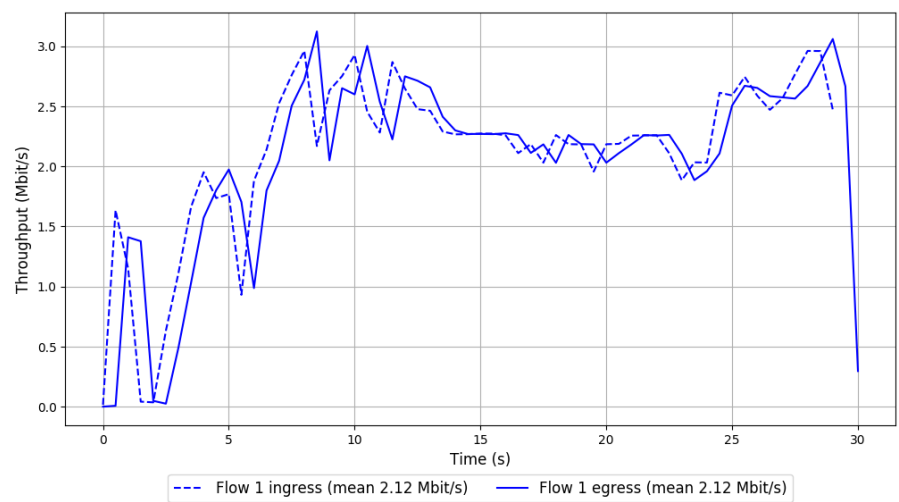
-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 86.719 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-08-27 09:27:15

End at: 2018-08-27 09:27:45

Local clock offset: 0.624 ms

Remote clock offset: 0.302 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 86.286 ms

Loss rate: 0.00%

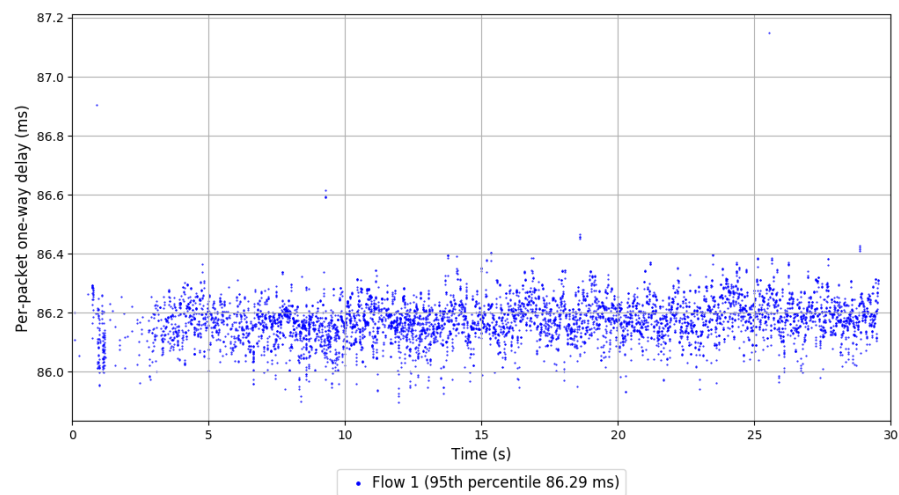
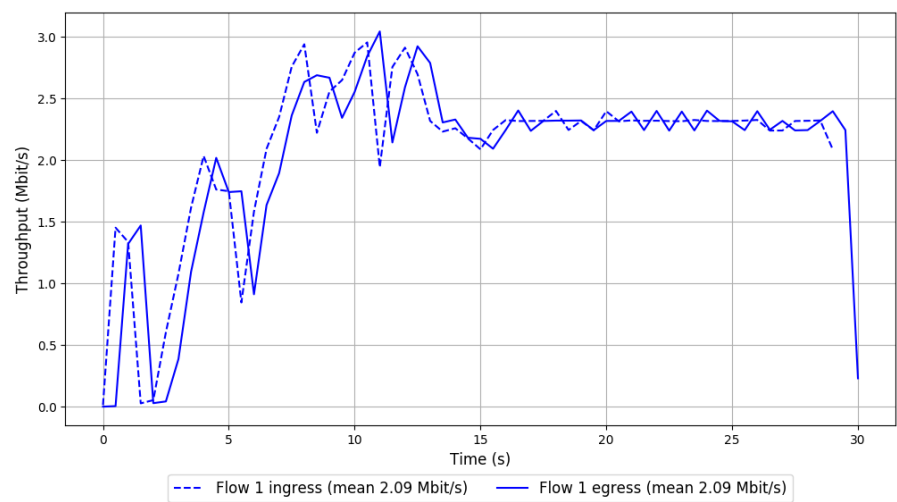
-- Flow 1:

Average throughput: 2.09 Mbit/s

95th percentile per-packet one-way delay: 86.286 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-08-27 09:51:31

End at: 2018-08-27 09:52:01

Local clock offset: 0.752 ms

Remote clock offset: 0.23 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.621 ms

Loss rate: 0.00%

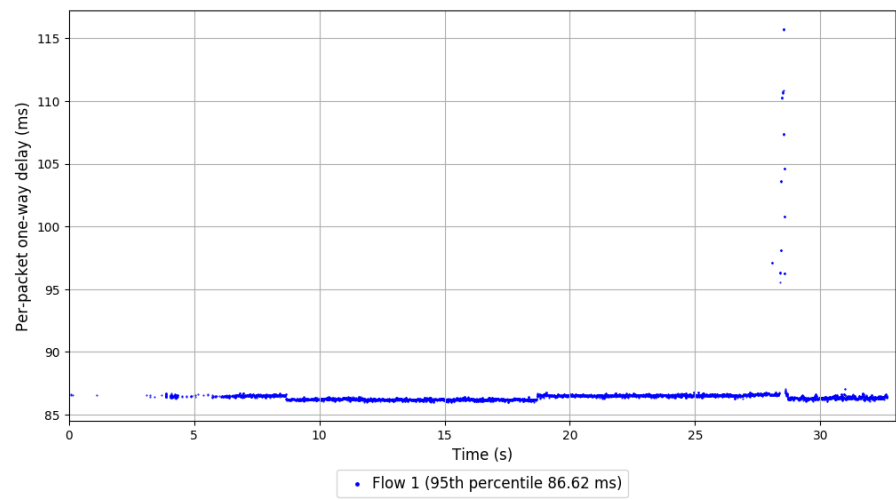
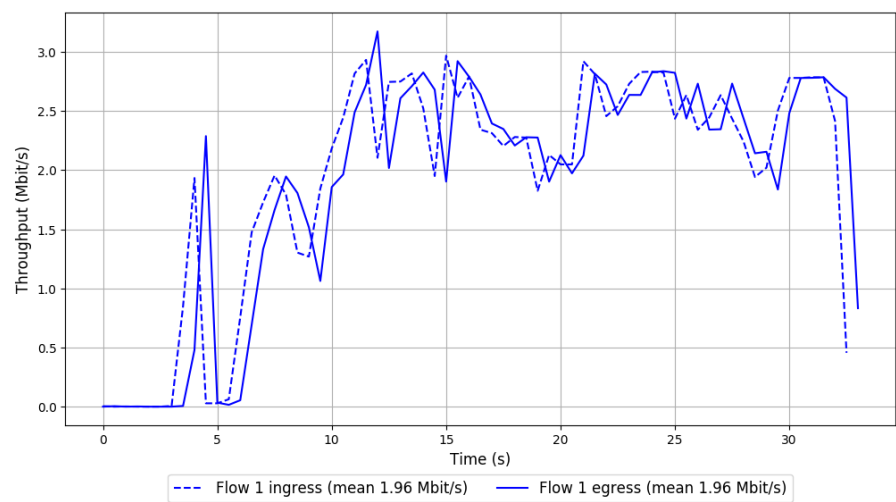
-- Flow 1:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 86.621 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-08-27 10:15:56

End at: 2018-08-27 10:16:26

Local clock offset: 0.04 ms

Remote clock offset: 0.037 ms

Below is generated by plot.py at 2018-08-27 13:58:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.579 ms

Loss rate: 0.00%

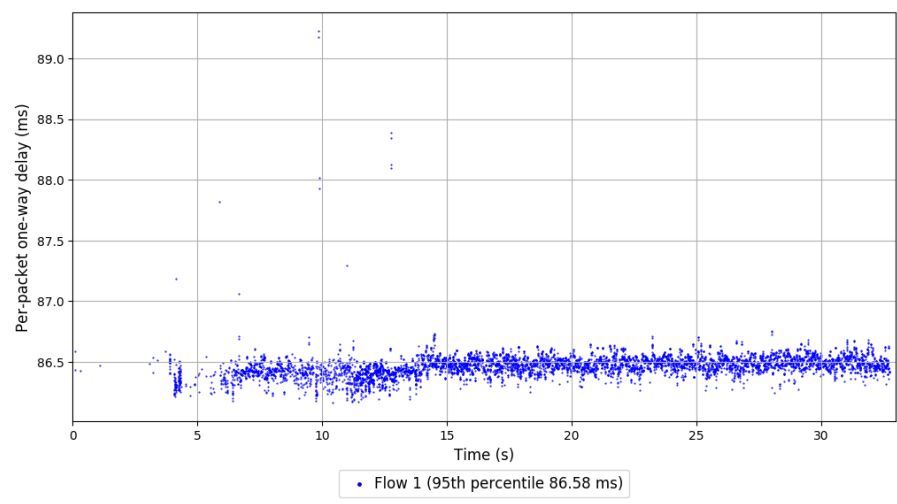
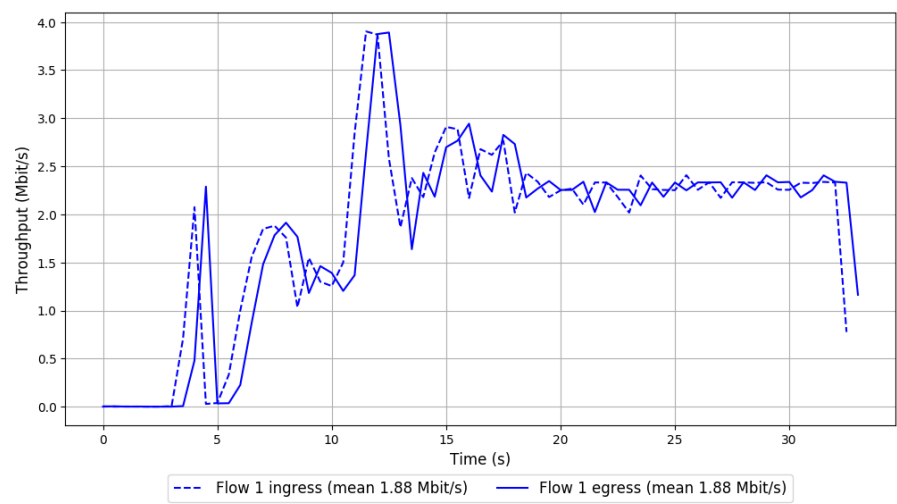
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 86.579 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-27 10:40:17
End at: 2018-08-27 10:40:47
Local clock offset: -0.278 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-08-27 13:58:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 86.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 86.836 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

