

Pantheon Report

Generated at 2018-08-11 06:31:58 (UTC).

Data path: GCE Sydney Ethernet (*local*) → GCE London Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

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

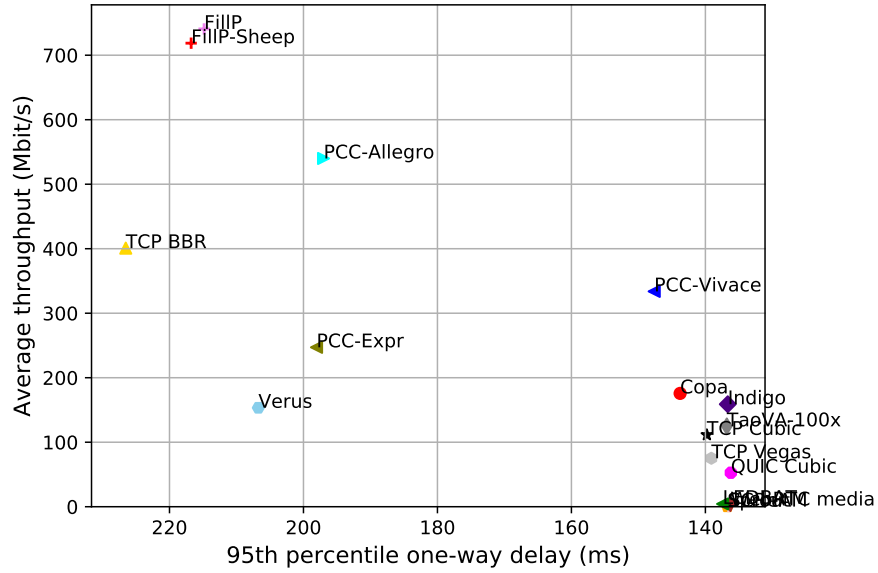
System info:

```
Linux 4.15.0-1014-gcp
net.core.default_qdisc = fq_codel
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
```

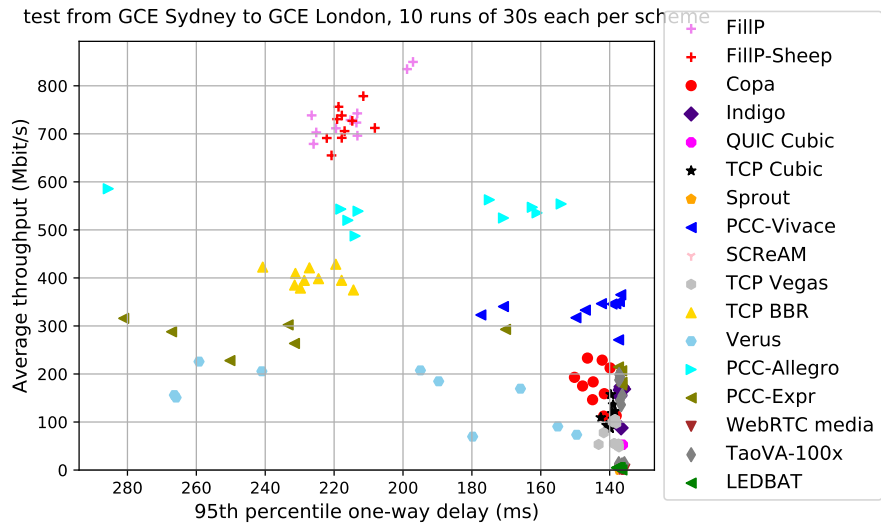
Git summary:

```
branch: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdfef58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Sydney to GCE London, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE Sydney to GCE London, 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	400.91	226.53	1.76
Copa	10	175.70	143.77	0.01
TCP Cubic	10	111.38	139.78	0.00
FillP	10	740.71	214.83	5.34
FillP-Sheep	10	718.65	216.77	6.62
Indigo	10	158.93	136.66	0.00
LEDBAT	10	4.31	137.43	0.00
PCC-Allegro	10	539.92	197.00	1.96
PCC-Expr	10	247.11	198.05	1.42
QUIC Cubic	1	52.69	136.20	0.00
SCReAM	10	0.22	136.53	0.00
Sprout	10	0.16	136.72	0.00
TaoVA-100x	10	124.63	136.80	0.00
TCP Vegas	10	75.12	139.11	0.00
Verus	10	153.39	206.74	1.47
PCC-Vivace	10	333.84	147.65	0.06
WebRTC media	10	1.93	136.28	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-08-11 00:38:52

End at: 2018-08-11 00:39:22

Local clock offset: 0.141 ms

Remote clock offset: -0.273 ms

Below is generated by plot.py at 2018-08-11 04:49:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.94 Mbit/s

95th percentile per-packet one-way delay: 228.657 ms

Loss rate: 1.92%

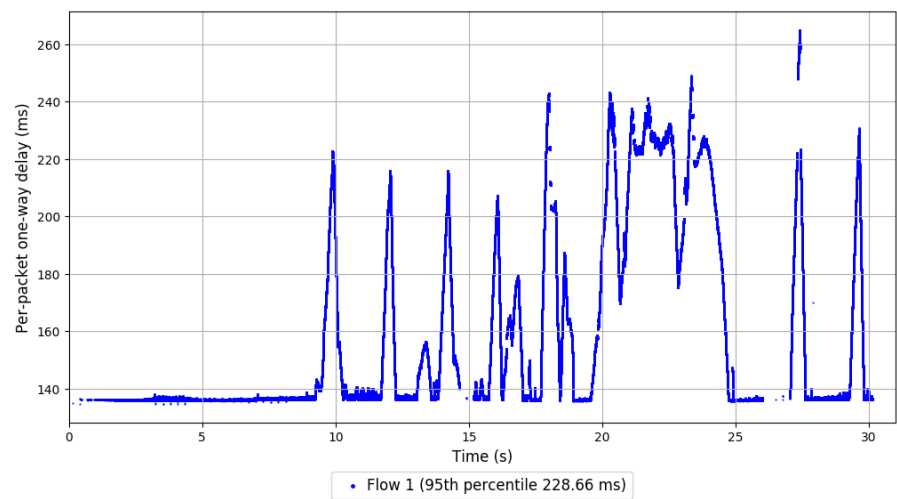
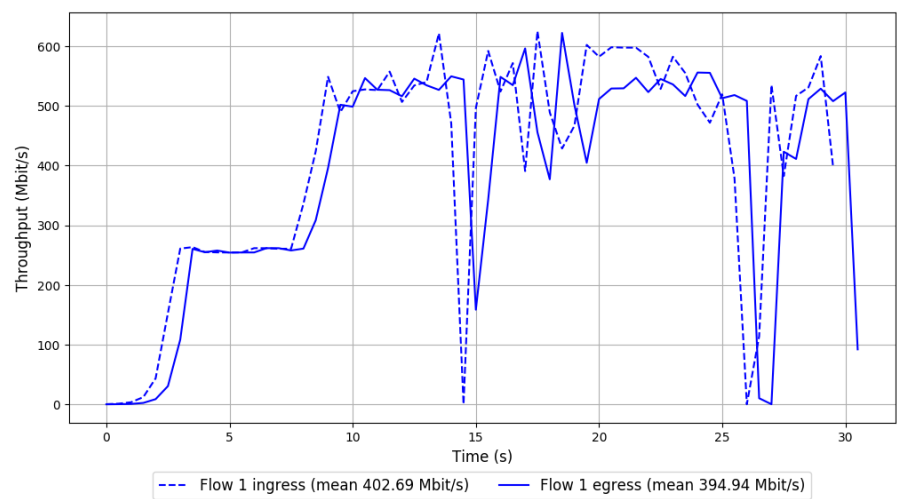
-- Flow 1:

Average throughput: 394.94 Mbit/s

95th percentile per-packet one-way delay: 228.657 ms

Loss rate: 1.92%

Run 1: Report of TCP BBR — Data Link

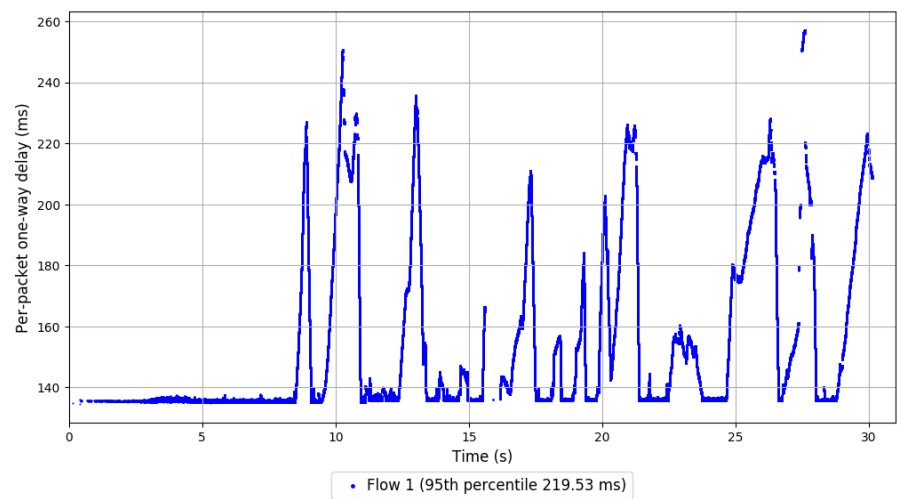
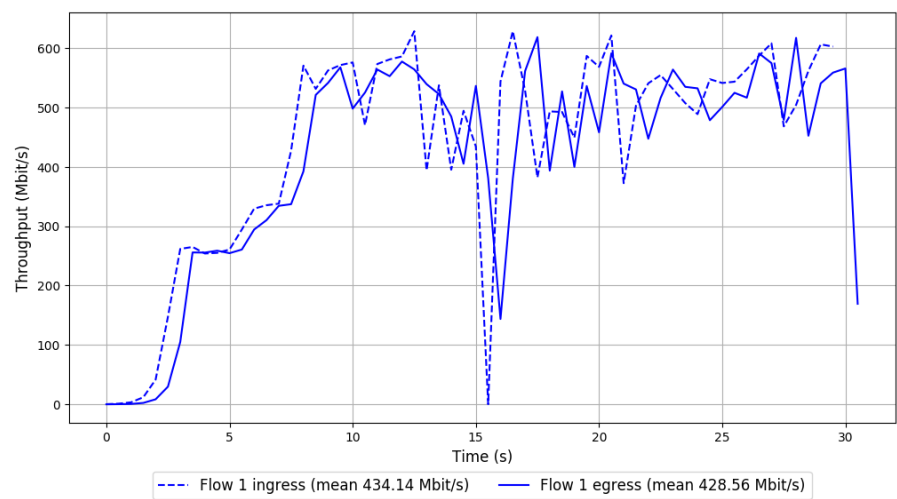


Run 2: Statistics of TCP BBR

Start at: 2018-08-11 01:02:08
End at: 2018-08-11 01:02:38
Local clock offset: 0.426 ms
Remote clock offset: -0.687 ms

Below is generated by plot.py at 2018-08-11 04:49:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 428.56 Mbit/s
95th percentile per-packet one-way delay: 219.526 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 428.56 Mbit/s
95th percentile per-packet one-way delay: 219.526 ms
Loss rate: 1.28%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-08-11 01:25:32

End at: 2018-08-11 01:26:02

Local clock offset: 0.36 ms

Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-08-11 04:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 374.96 Mbit/s

95th percentile per-packet one-way delay: 214.384 ms

Loss rate: 0.76%

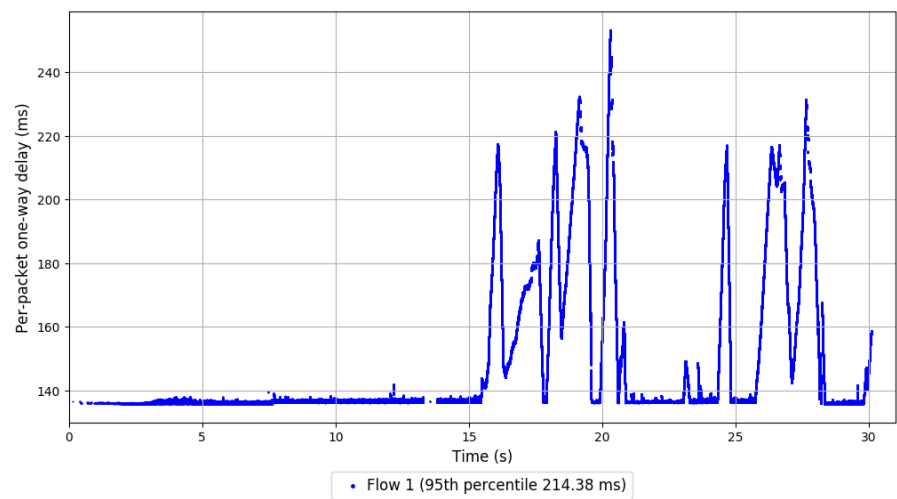
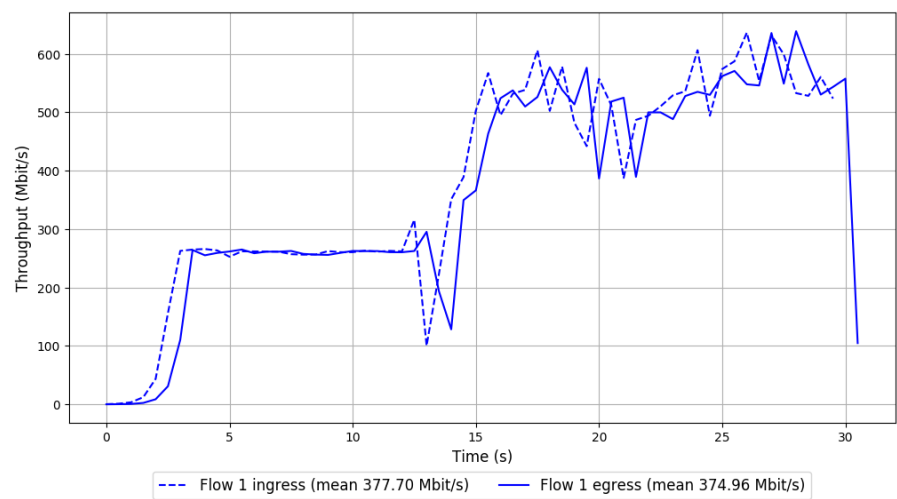
-- Flow 1:

Average throughput: 374.96 Mbit/s

95th percentile per-packet one-way delay: 214.384 ms

Loss rate: 0.76%

Run 3: Report of TCP BBR — Data Link

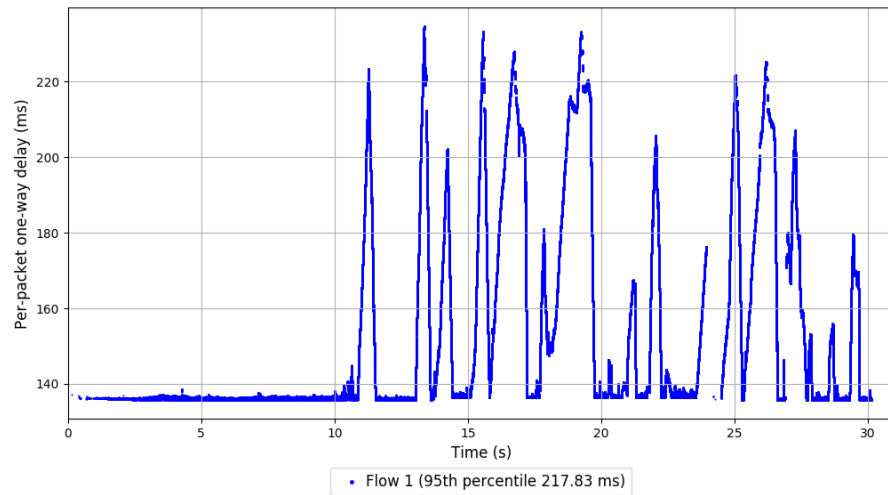
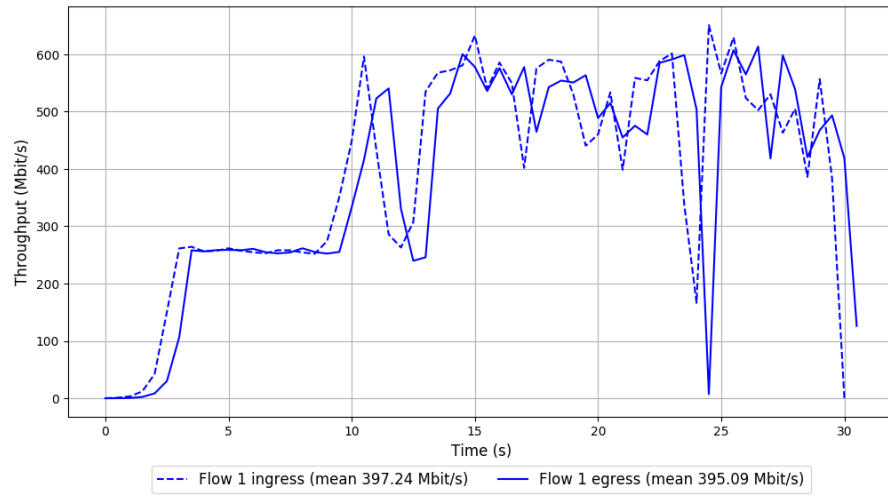


Run 4: Statistics of TCP BBR

Start at: 2018-08-11 01:49:05
End at: 2018-08-11 01:49:35
Local clock offset: 0.023 ms
Remote clock offset: -0.532 ms

Below is generated by plot.py at 2018-08-11 04:49:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 395.09 Mbit/s
95th percentile per-packet one-way delay: 217.831 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 395.09 Mbit/s
95th percentile per-packet one-way delay: 217.831 ms
Loss rate: 0.55%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-08-11 02:12:36

End at: 2018-08-11 02:13:06

Local clock offset: 0.543 ms

Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-08-11 04:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 385.12 Mbit/s

95th percentile per-packet one-way delay: 231.461 ms

Loss rate: 2.24%

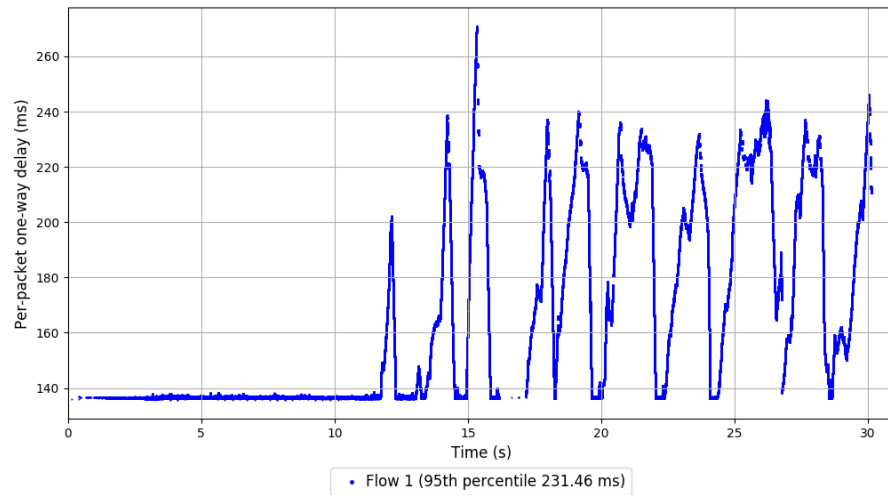
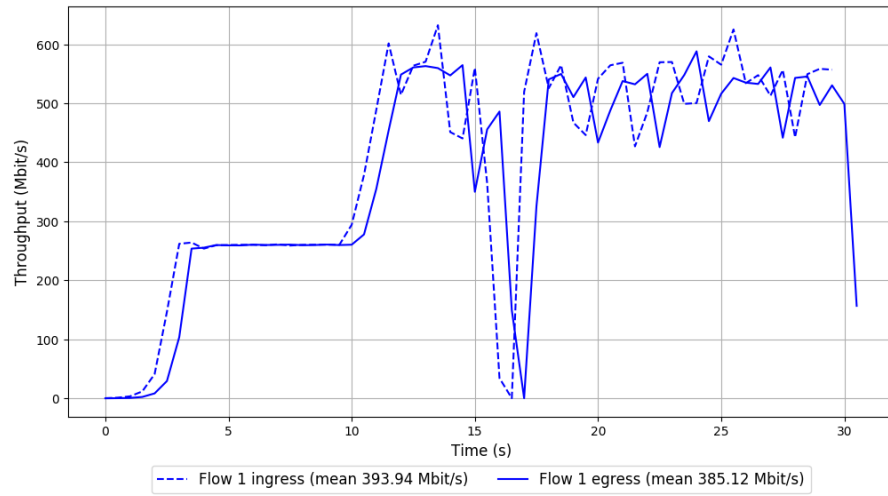
-- Flow 1:

Average throughput: 385.12 Mbit/s

95th percentile per-packet one-way delay: 231.461 ms

Loss rate: 2.24%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-08-11 02:35:58

End at: 2018-08-11 02:36:28

Local clock offset: 0.376 ms

Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-08-11 04:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 398.50 Mbit/s

95th percentile per-packet one-way delay: 224.530 ms

Loss rate: 1.49%

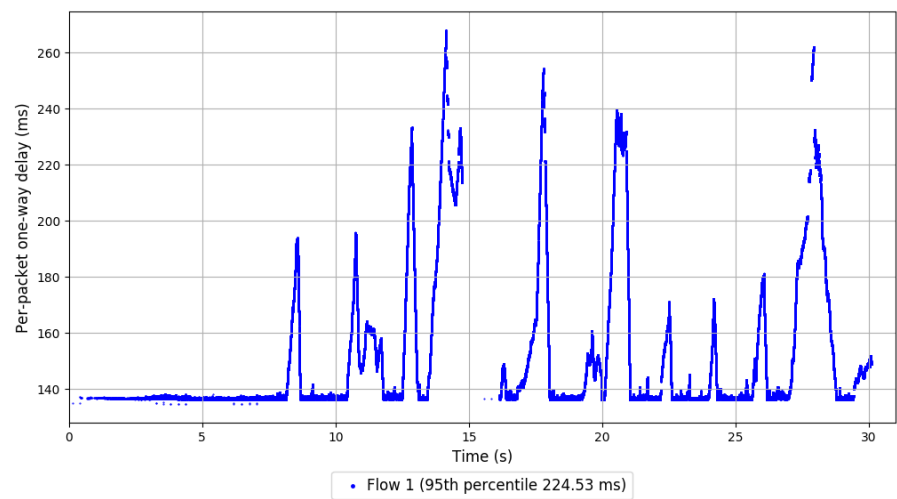
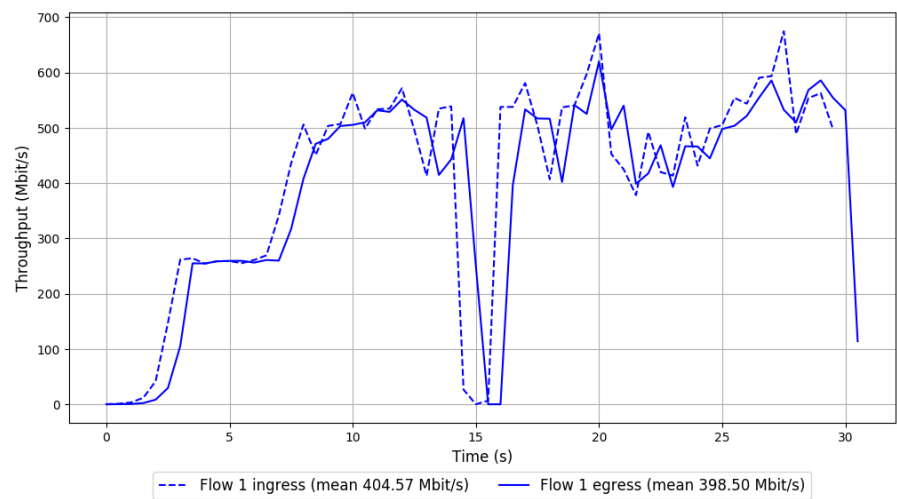
-- Flow 1:

Average throughput: 398.50 Mbit/s

95th percentile per-packet one-way delay: 224.530 ms

Loss rate: 1.49%

Run 6: Report of TCP BBR — Data Link

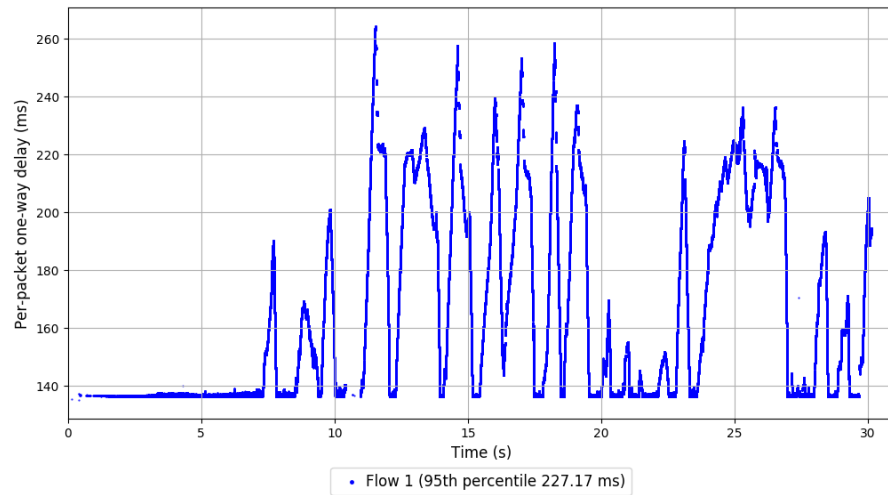
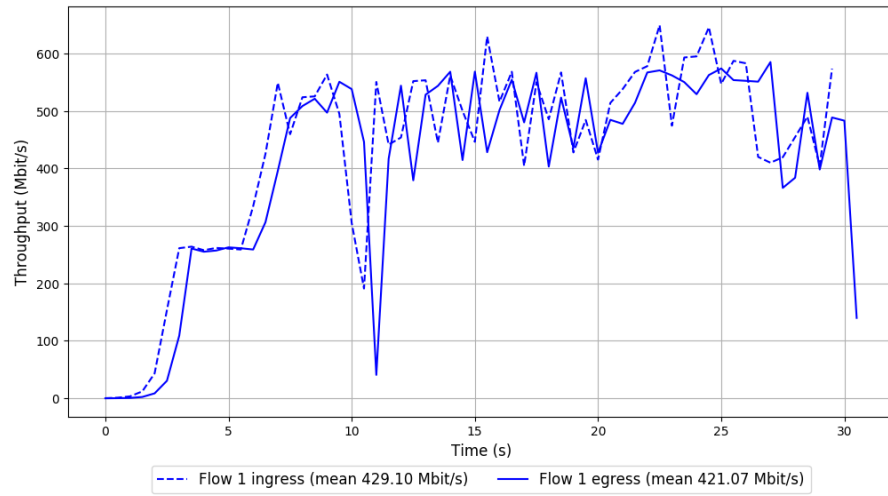


Run 7: Statistics of TCP BBR

Start at: 2018-08-11 02:59:19
End at: 2018-08-11 02:59:49
Local clock offset: 0.317 ms
Remote clock offset: -0.221 ms

Below is generated by plot.py at 2018-08-11 04:49:50
Datalink statistics
-- Total of 1 flow:
Average throughput: 421.07 Mbit/s
95th percentile per-packet one-way delay: 227.169 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 421.07 Mbit/s
95th percentile per-packet one-way delay: 227.169 ms
Loss rate: 1.87%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-08-11 03:23:04

End at: 2018-08-11 03:23:34

Local clock offset: 0.173 ms

Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-08-11 04:49:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 378.87 Mbit/s

95th percentile per-packet one-way delay: 229.785 ms

Loss rate: 1.72%

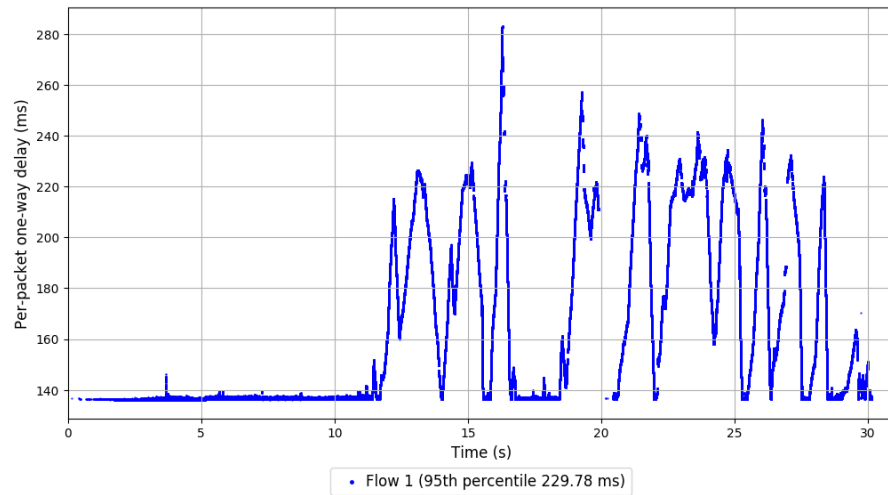
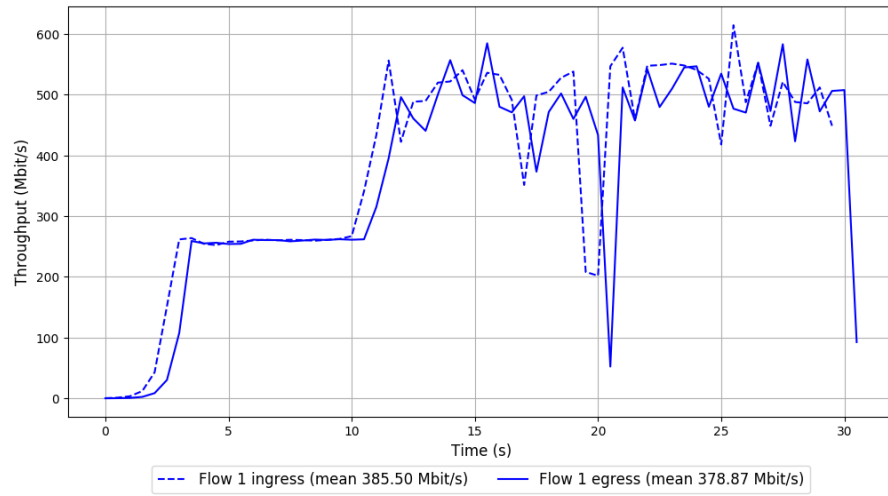
-- Flow 1:

Average throughput: 378.87 Mbit/s

95th percentile per-packet one-way delay: 229.785 ms

Loss rate: 1.72%

Run 8: Report of TCP BBR — Data Link

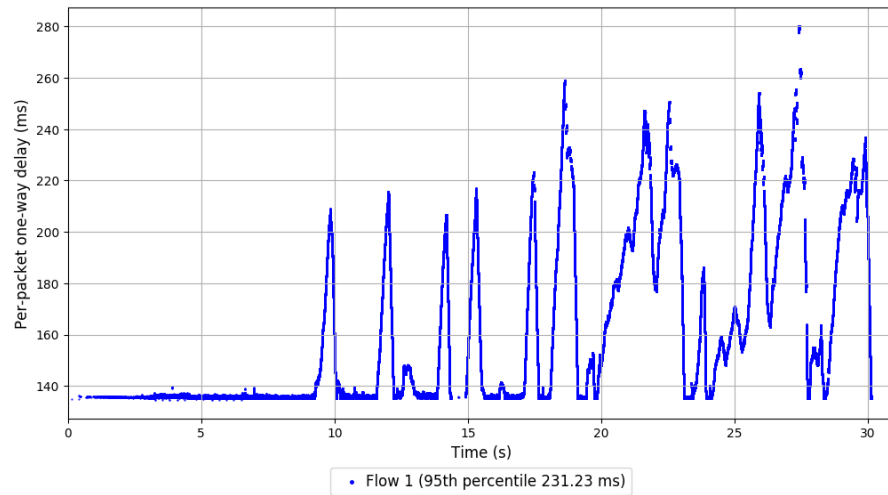
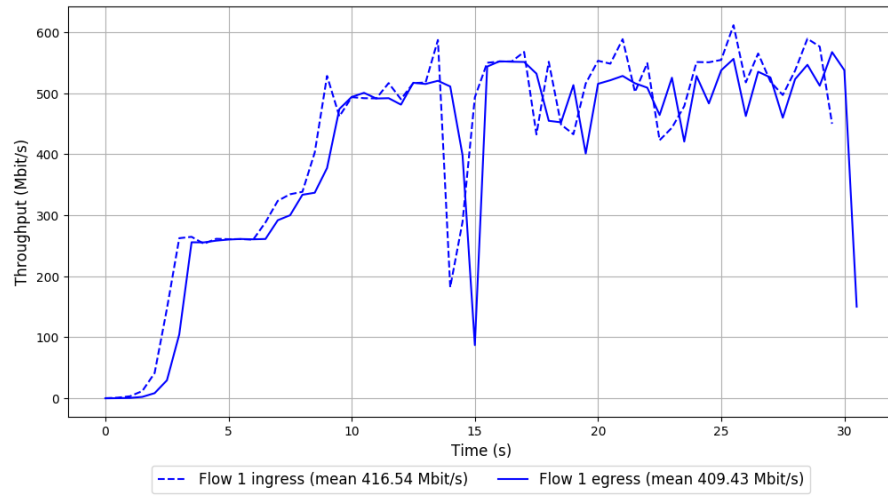


Run 9: Statistics of TCP BBR

Start at: 2018-08-11 03:46:20
End at: 2018-08-11 03:46:50
Local clock offset: 0.446 ms
Remote clock offset: -0.471 ms

Below is generated by plot.py at 2018-08-11 04:56:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 231.232 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 409.43 Mbit/s
95th percentile per-packet one-way delay: 231.232 ms
Loss rate: 1.70%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-08-11 04:10:06

End at: 2018-08-11 04:10:36

Local clock offset: 0.453 ms

Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-08-11 04:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 422.59 Mbit/s

95th percentile per-packet one-way delay: 240.728 ms

Loss rate: 4.05%

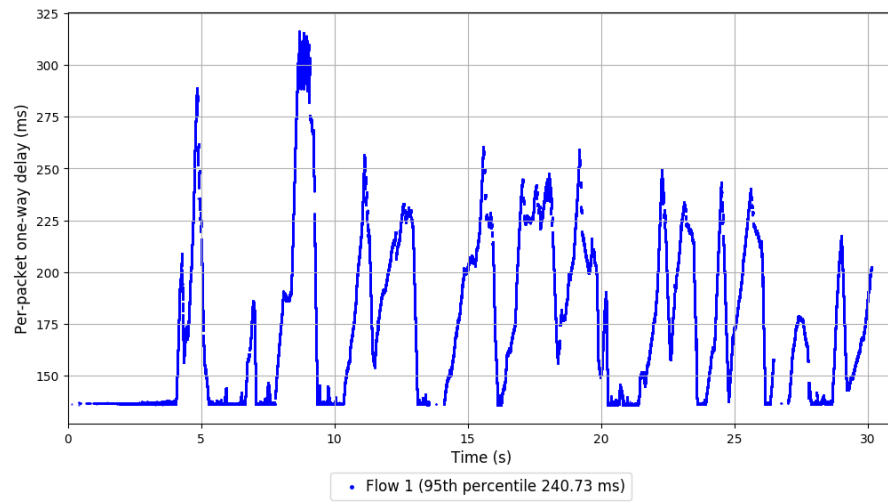
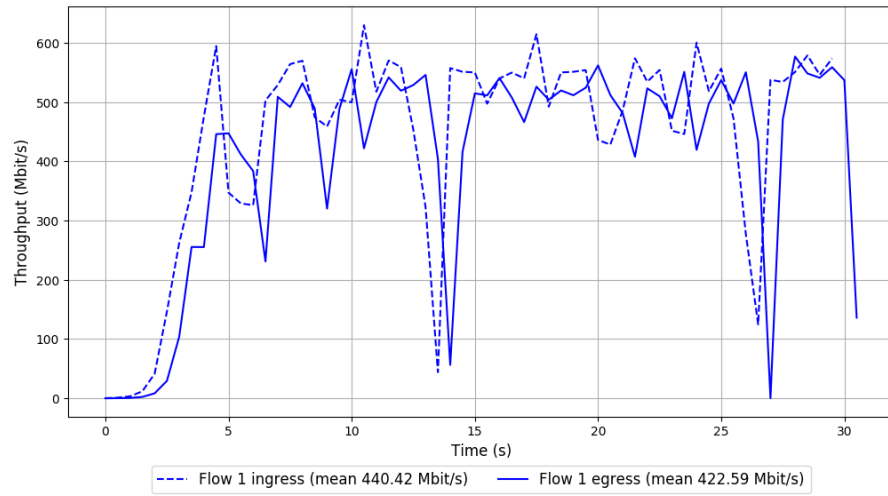
-- Flow 1:

Average throughput: 422.59 Mbit/s

95th percentile per-packet one-way delay: 240.728 ms

Loss rate: 4.05%

Run 10: Report of TCP BBR — Data Link

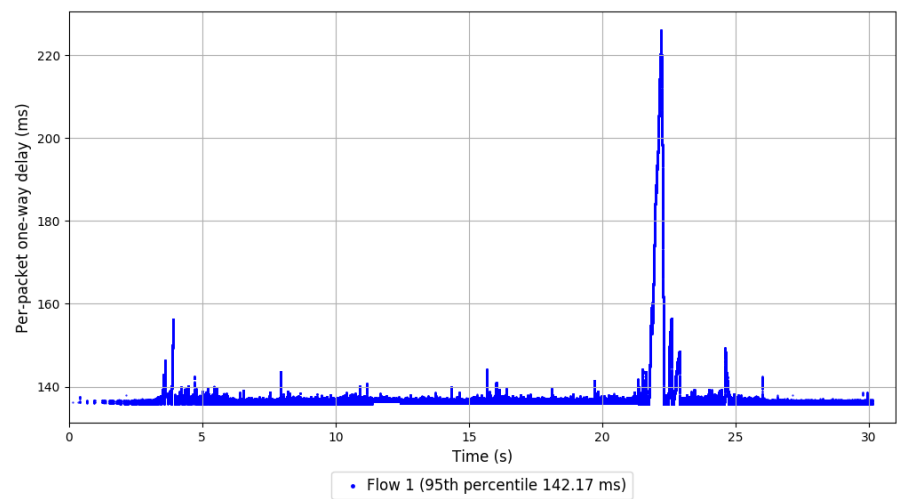
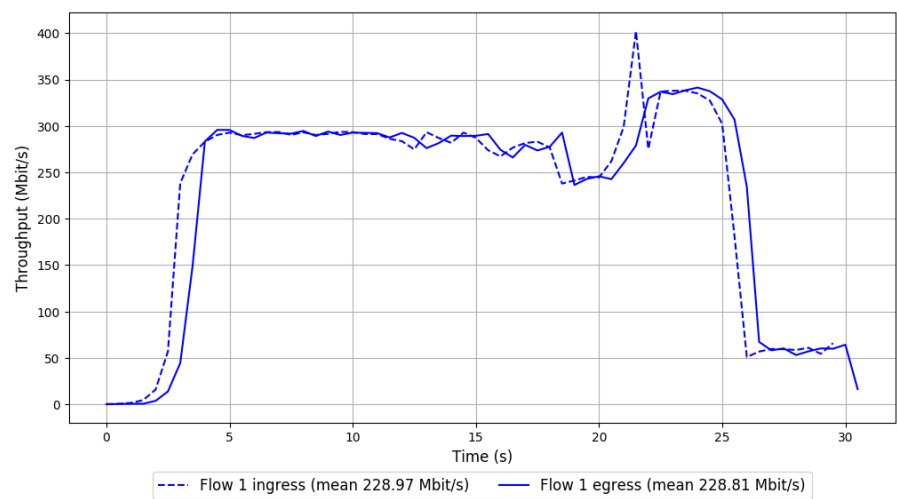


Run 1: Statistics of Copa

Start at: 2018-08-11 00:41:37
End at: 2018-08-11 00:42:07
Local clock offset: -0.022 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-08-11 04:56:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 228.81 Mbit/s
95th percentile per-packet one-way delay: 142.169 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 228.81 Mbit/s
95th percentile per-packet one-way delay: 142.169 ms
Loss rate: 0.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-08-11 01:04:56

End at: 2018-08-11 01:05:26

Local clock offset: 0.055 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-08-11 04:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 147.861 ms

Loss rate: 0.00%

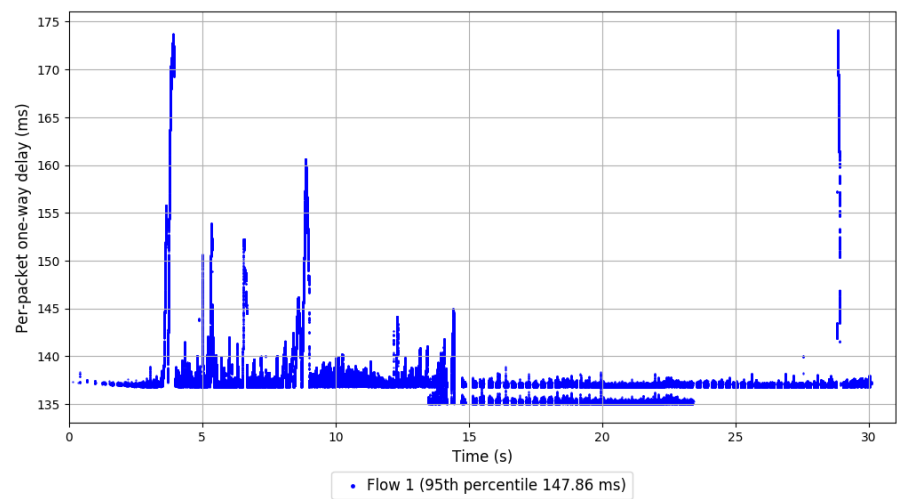
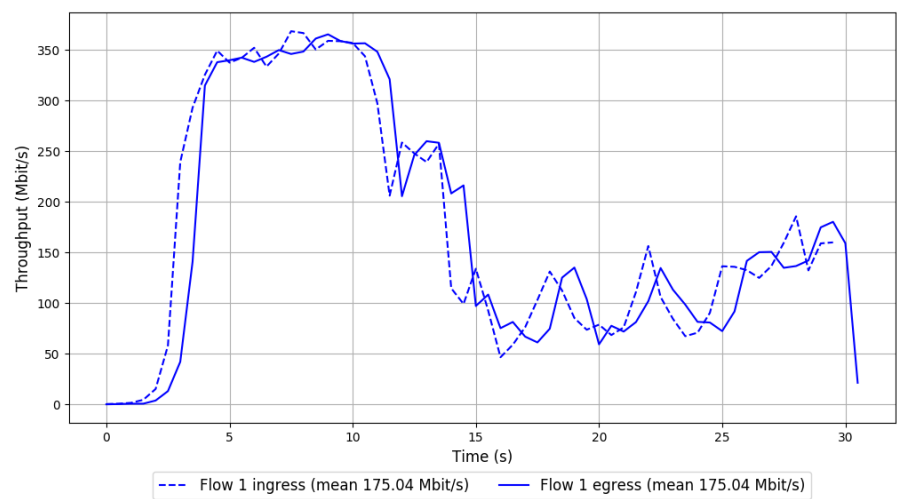
-- Flow 1:

Average throughput: 175.04 Mbit/s

95th percentile per-packet one-way delay: 147.861 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

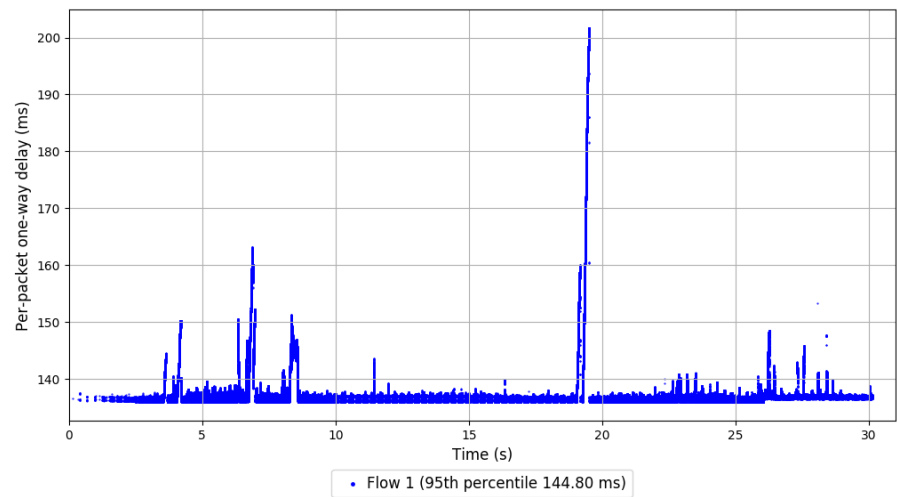
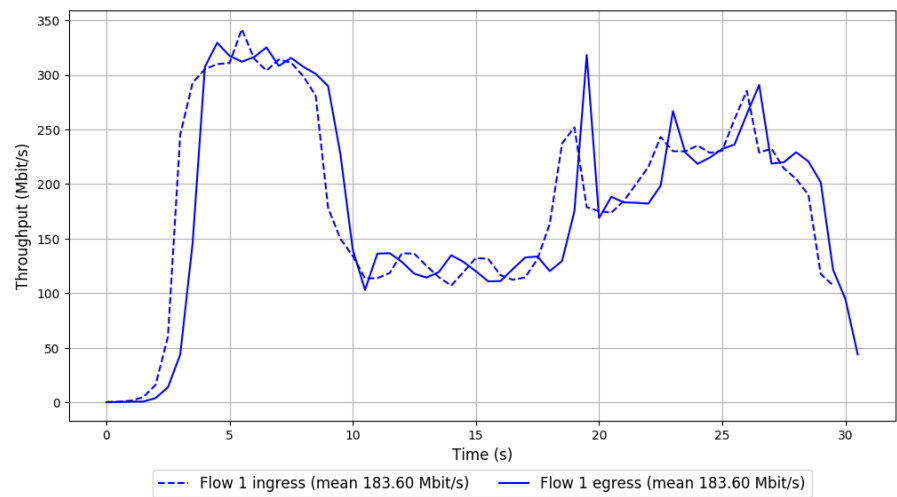


Run 3: Statistics of Copa

Start at: 2018-08-11 01:28:13
End at: 2018-08-11 01:28:43
Local clock offset: 0.053 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-08-11 04:56:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 183.60 Mbit/s
95th percentile per-packet one-way delay: 144.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 183.60 Mbit/s
95th percentile per-packet one-way delay: 144.797 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-08-11 01:51:47

End at: 2018-08-11 01:52:17

Local clock offset: 0.068 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-08-11 04:56:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 158.97 Mbit/s

95th percentile per-packet one-way delay: 141.555 ms

Loss rate: 0.00%

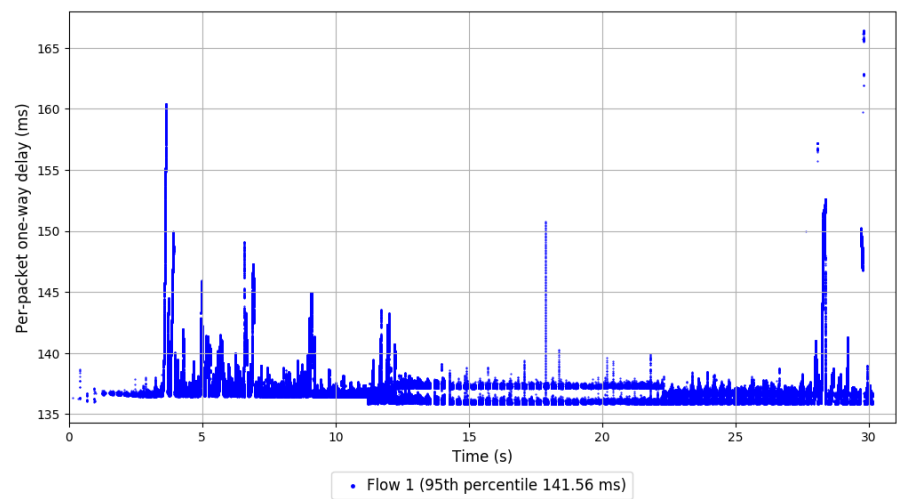
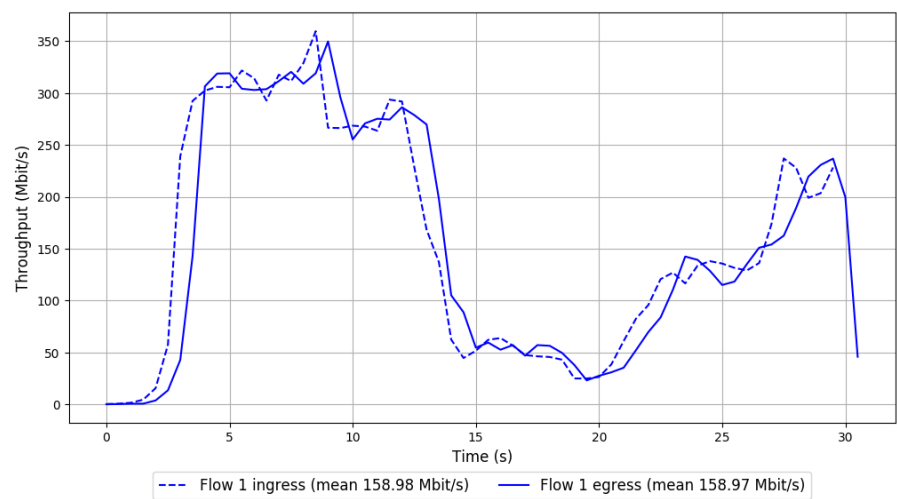
-- Flow 1:

Average throughput: 158.97 Mbit/s

95th percentile per-packet one-way delay: 141.555 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link

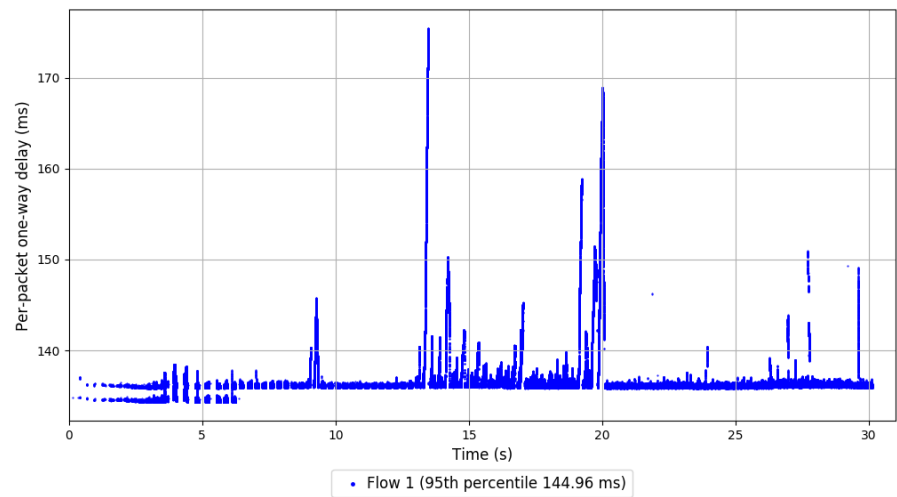
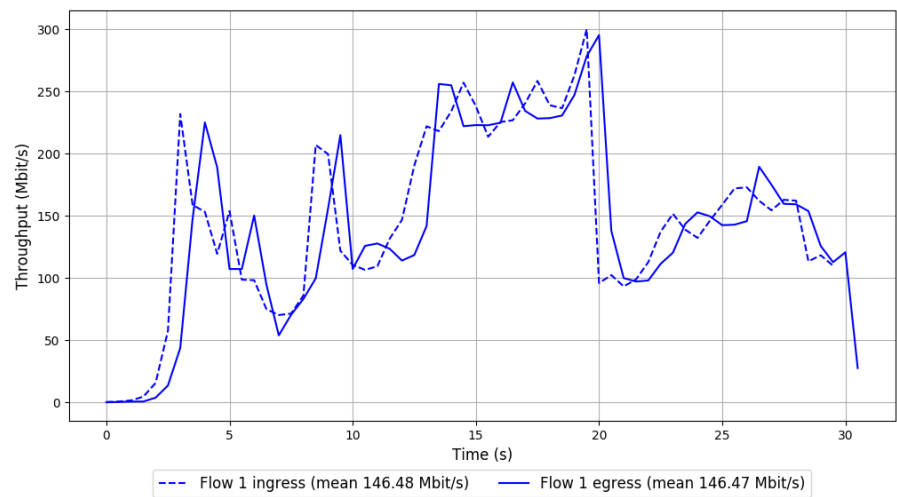


Run 5: Statistics of Copa

Start at: 2018-08-11 02:15:23
End at: 2018-08-11 02:15:53
Local clock offset: 0.404 ms
Remote clock offset: -0.529 ms

Below is generated by plot.py at 2018-08-11 04:56:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 146.47 Mbit/s
95th percentile per-packet one-way delay: 144.961 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 146.47 Mbit/s
95th percentile per-packet one-way delay: 144.961 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

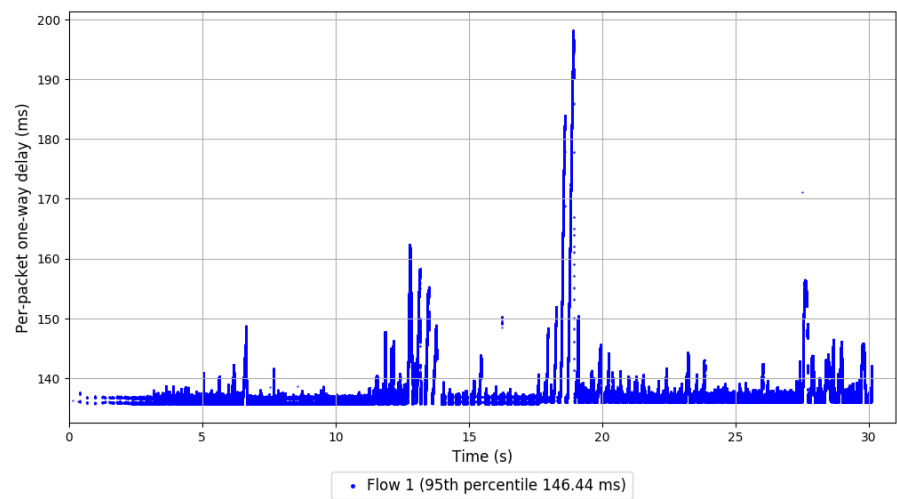
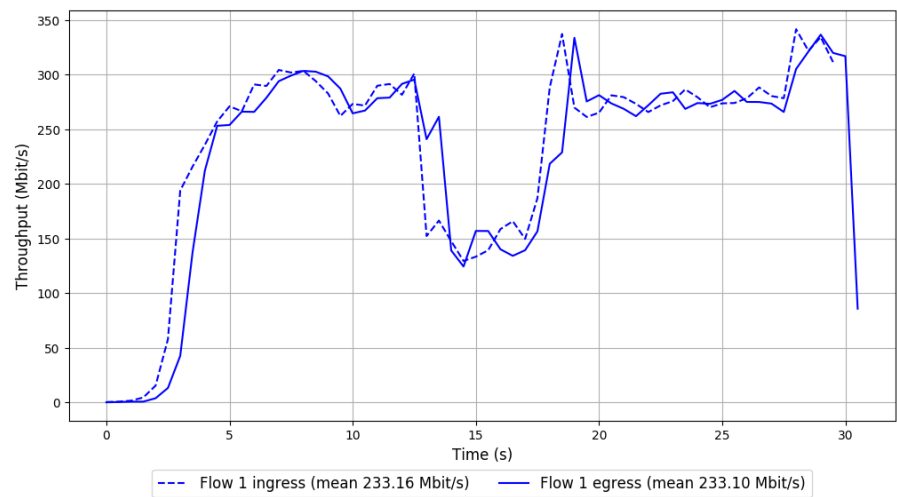


Run 6: Statistics of Copa

Start at: 2018-08-11 02:38:42
End at: 2018-08-11 02:39:12
Local clock offset: 0.168 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-08-11 04:57:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.10 Mbit/s
95th percentile per-packet one-way delay: 146.444 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 233.10 Mbit/s
95th percentile per-packet one-way delay: 146.444 ms
Loss rate: 0.02%

Run 6: Report of Copa — Data Link

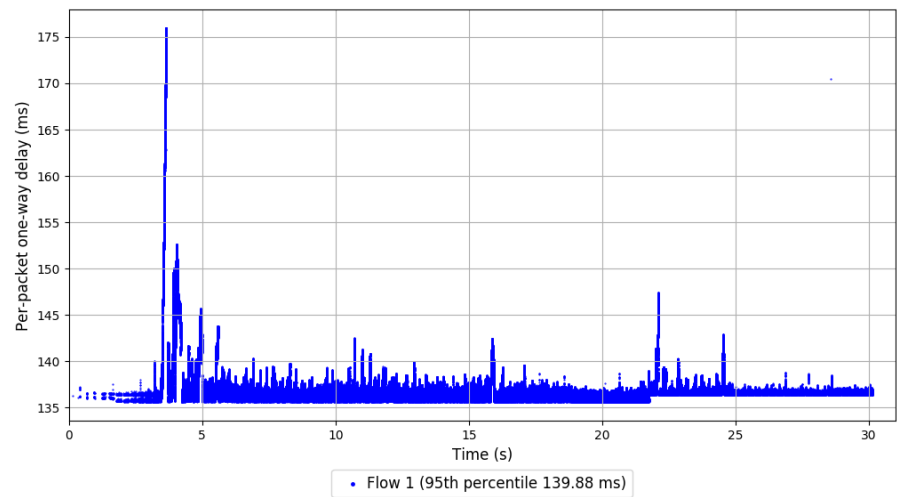
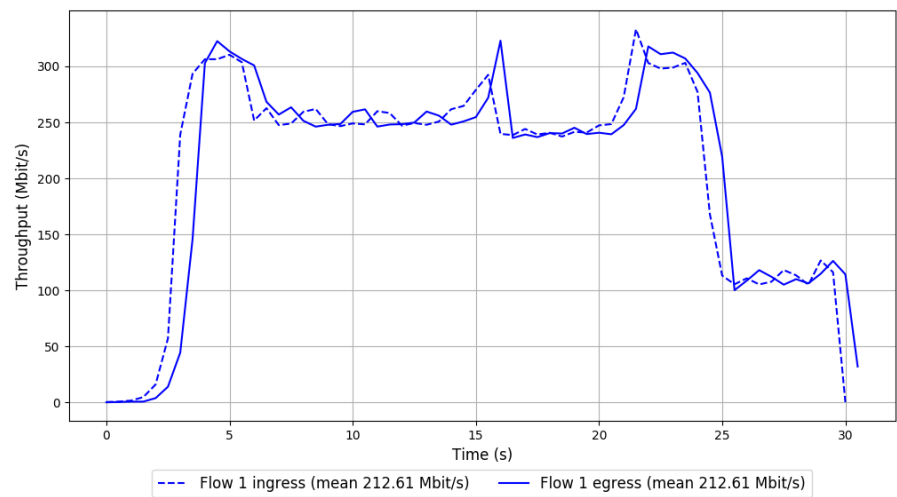


Run 7: Statistics of Copa

Start at: 2018-08-11 03:02:07
End at: 2018-08-11 03:02:38
Local clock offset: 0.33 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.61 Mbit/s
95th percentile per-packet one-way delay: 139.876 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.61 Mbit/s
95th percentile per-packet one-way delay: 139.876 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

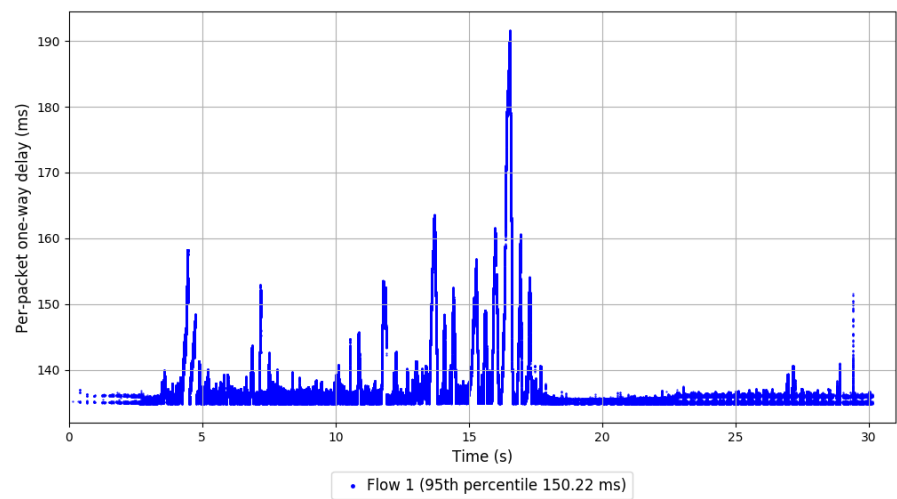
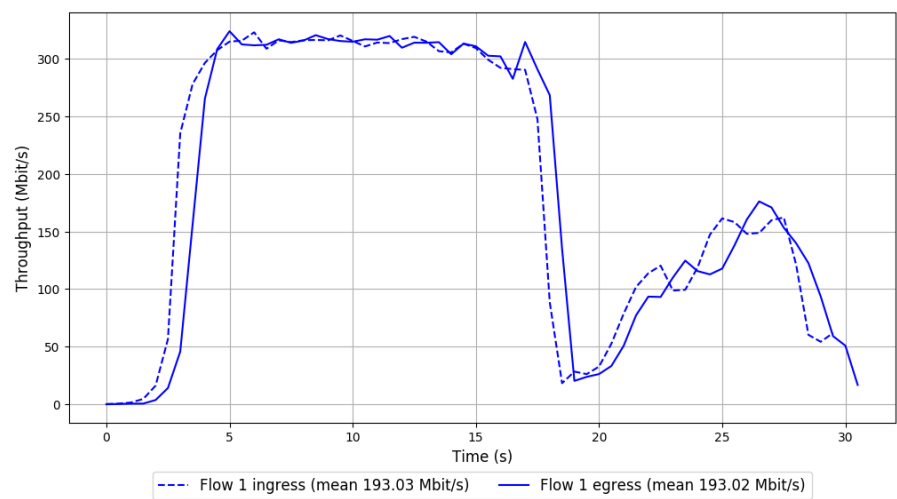


Run 8: Statistics of Copa

Start at: 2018-08-11 03:25:46
End at: 2018-08-11 03:26:16
Local clock offset: 0.429 ms
Remote clock offset: -0.472 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 193.02 Mbit/s
95th percentile per-packet one-way delay: 150.217 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 193.02 Mbit/s
95th percentile per-packet one-way delay: 150.217 ms
Loss rate: 0.00%

Run 8: Report of Copa — Data Link

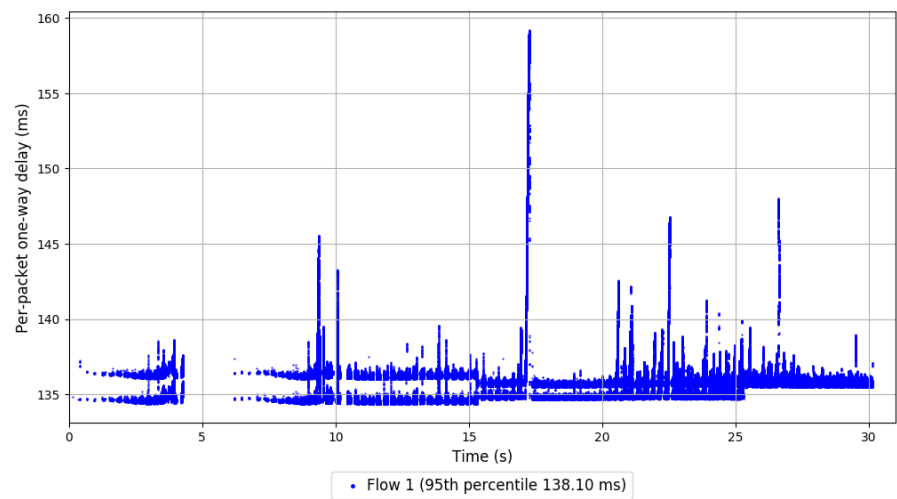
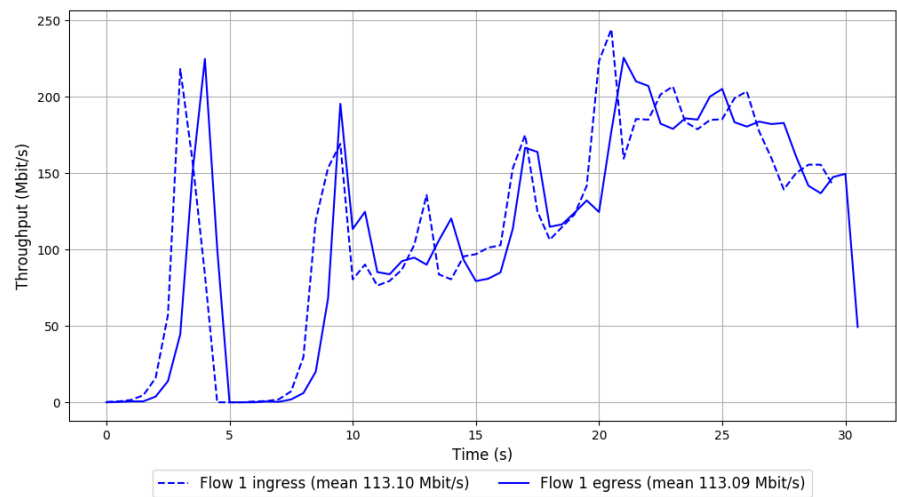


Run 9: Statistics of Copa

Start at: 2018-08-11 03:49:04
End at: 2018-08-11 03:49:34
Local clock offset: 0.194 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 113.09 Mbit/s
95th percentile per-packet one-way delay: 138.103 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 113.09 Mbit/s
95th percentile per-packet one-way delay: 138.103 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

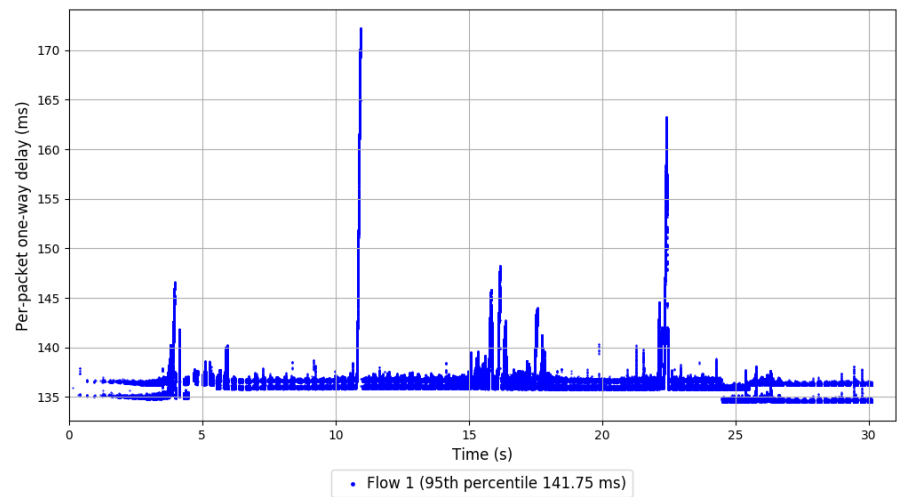
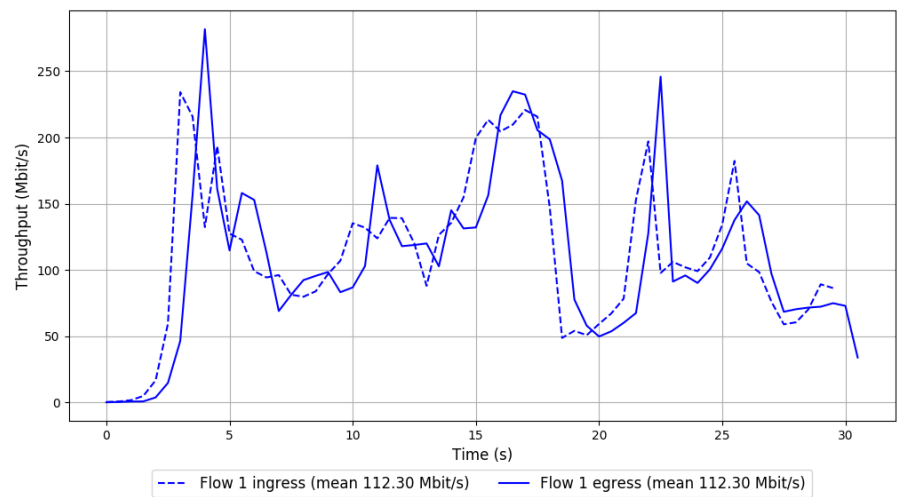


Run 10: Statistics of Copa

Start at: 2018-08-11 04:12:54
End at: 2018-08-11 04:13:24
Local clock offset: 0.456 ms
Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 112.30 Mbit/s
95th percentile per-packet one-way delay: 141.752 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 112.30 Mbit/s
95th percentile per-packet one-way delay: 141.752 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link

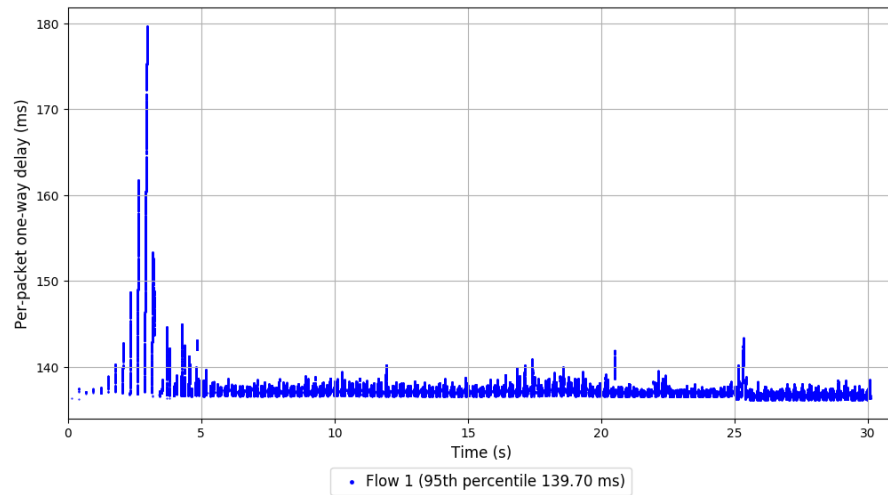
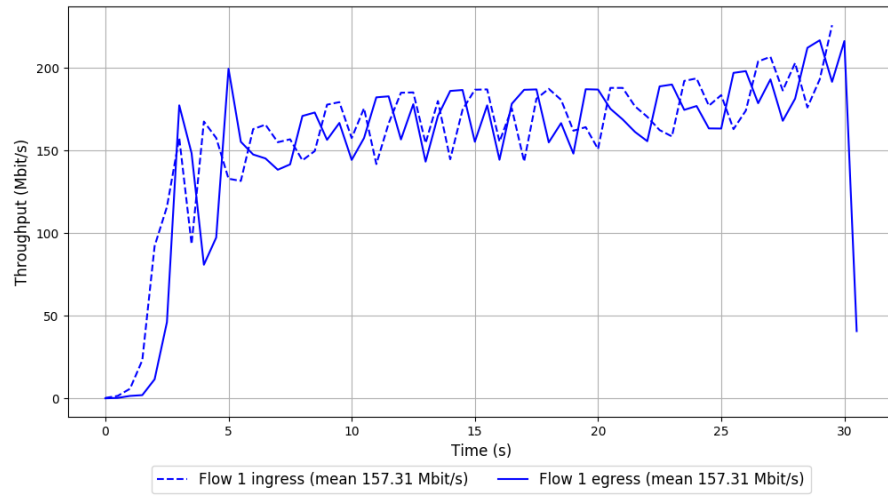


Run 1: Statistics of TCP Cubic

Start at: 2018-08-11 00:58:24
End at: 2018-08-11 00:58:54
Local clock offset: -0.055 ms
Remote clock offset: -0.251 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 157.31 Mbit/s
95th percentile per-packet one-way delay: 139.702 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.31 Mbit/s
95th percentile per-packet one-way delay: 139.702 ms
Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

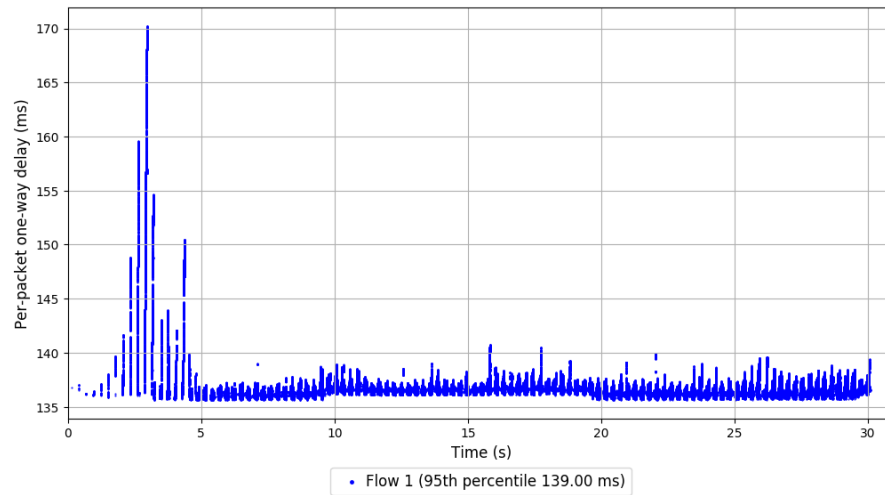
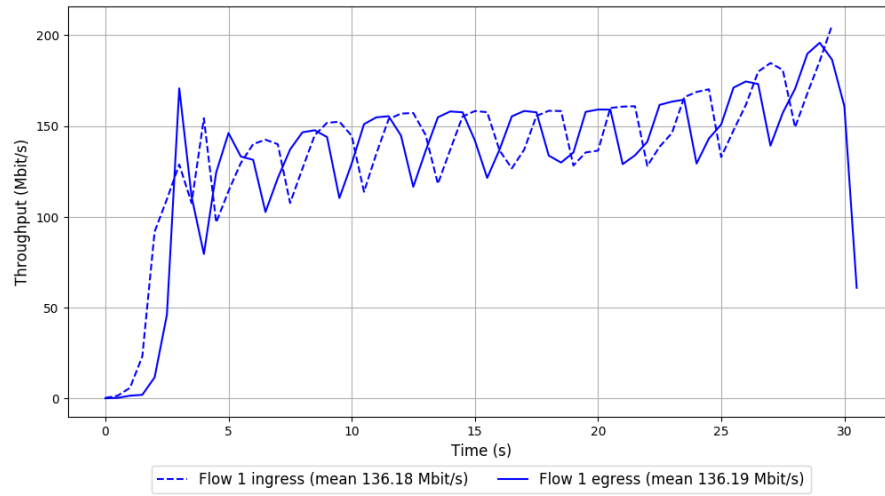


Run 2: Statistics of TCP Cubic

Start at: 2018-08-11 01:21:29
End at: 2018-08-11 01:22:00
Local clock offset: 0.403 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.19 Mbit/s
95th percentile per-packet one-way delay: 138.998 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 136.19 Mbit/s
95th percentile per-packet one-way delay: 138.998 ms
Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-08-11 01:44:57

End at: 2018-08-11 01:45:27

Local clock offset: 0.529 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-08-11 05:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 139.792 ms

Loss rate: 0.00%

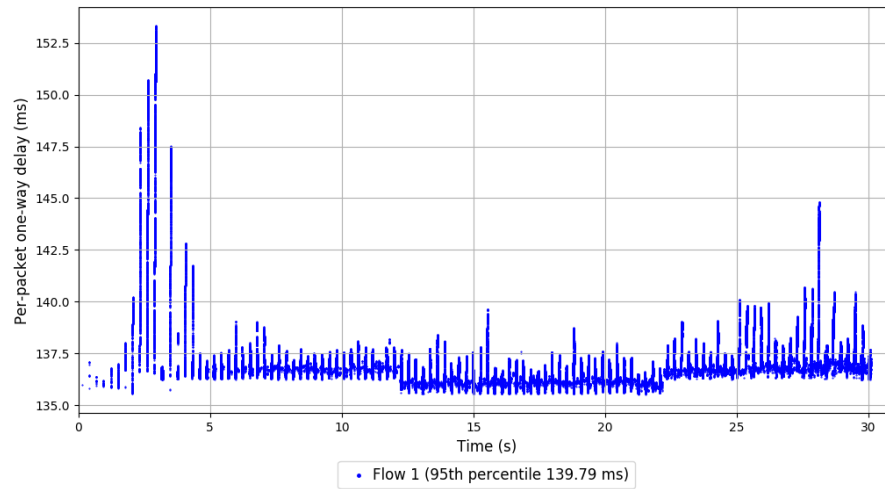
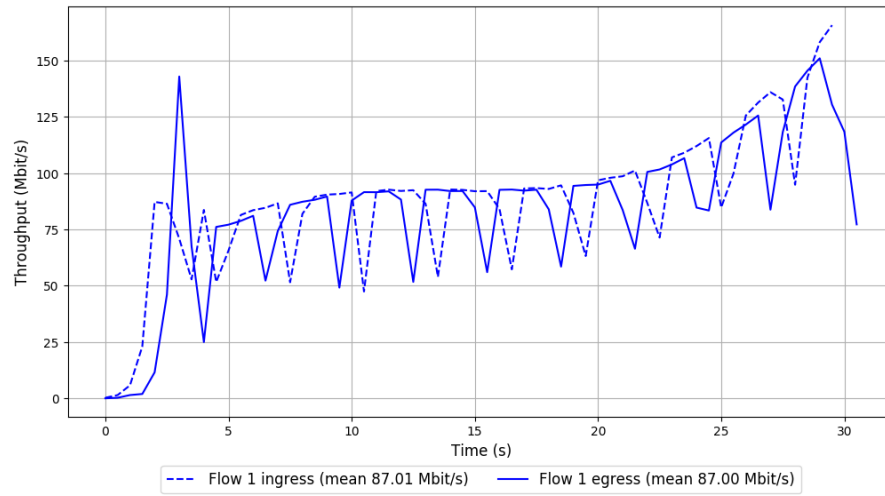
-- Flow 1:

Average throughput: 87.00 Mbit/s

95th percentile per-packet one-way delay: 139.792 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link

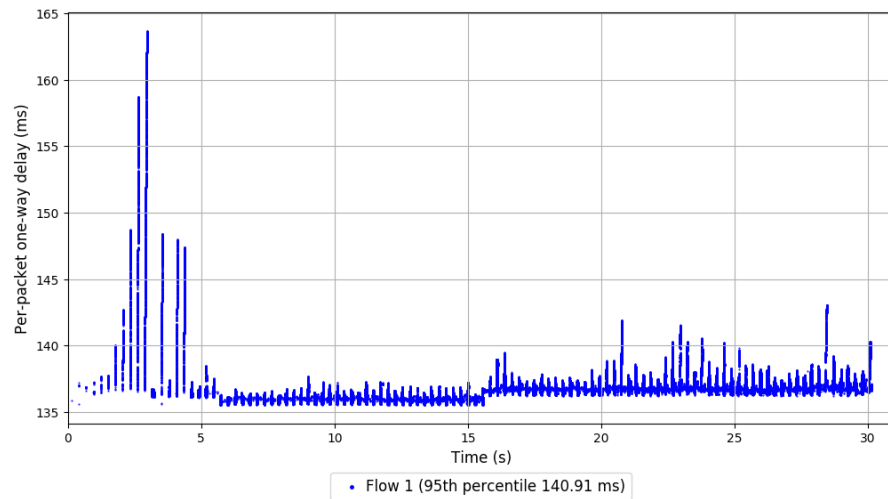
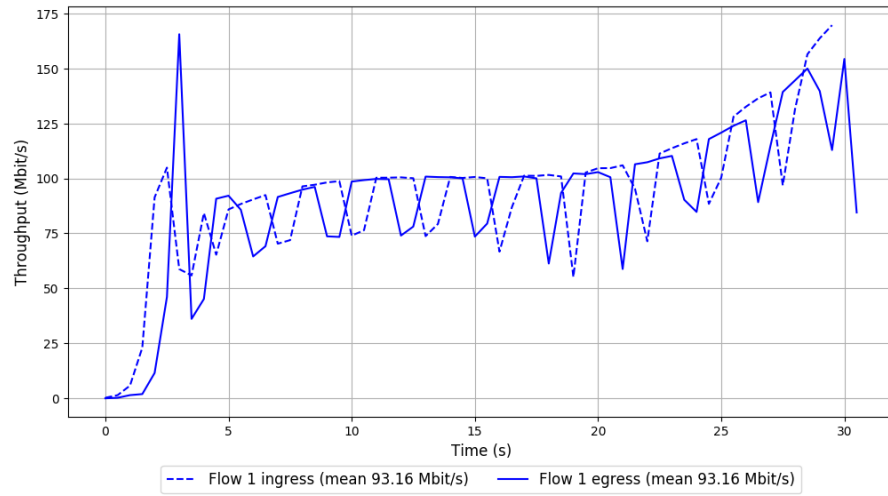


Run 4: Statistics of TCP Cubic

Start at: 2018-08-11 02:08:44
End at: 2018-08-11 02:09:14
Local clock offset: 0.137 ms
Remote clock offset: -0.551 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 140.907 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 93.16 Mbit/s
95th percentile per-packet one-way delay: 140.907 ms
Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-08-11 02:32:03

End at: 2018-08-11 02:32:33

Local clock offset: 0.553 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-08-11 05:02:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 122.50 Mbit/s

95th percentile per-packet one-way delay: 138.522 ms

Loss rate: 0.00%

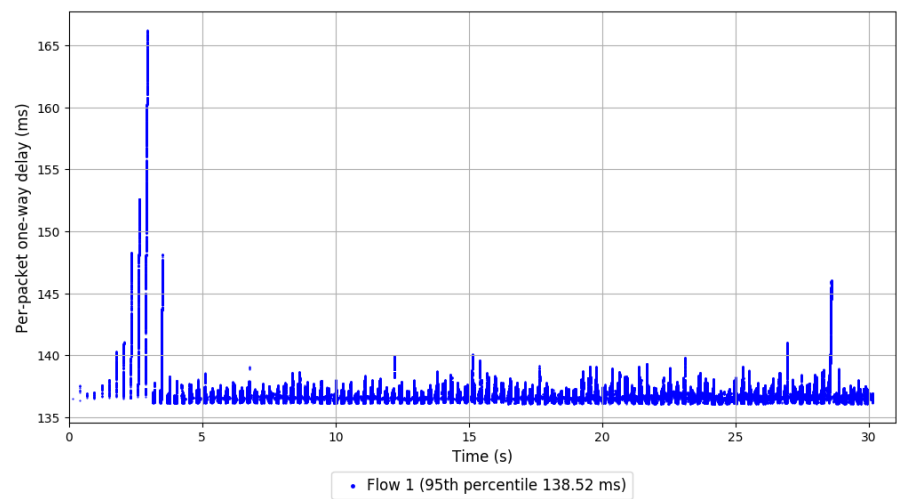
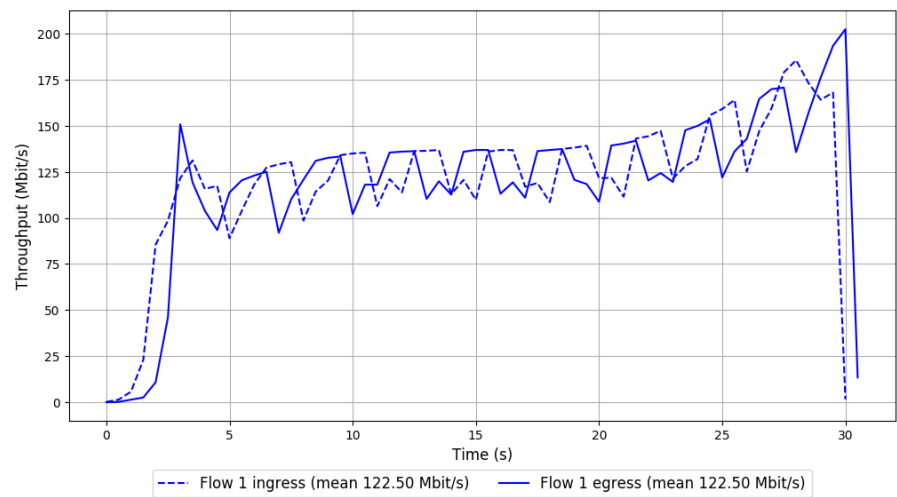
-- Flow 1:

Average throughput: 122.50 Mbit/s

95th percentile per-packet one-way delay: 138.522 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link

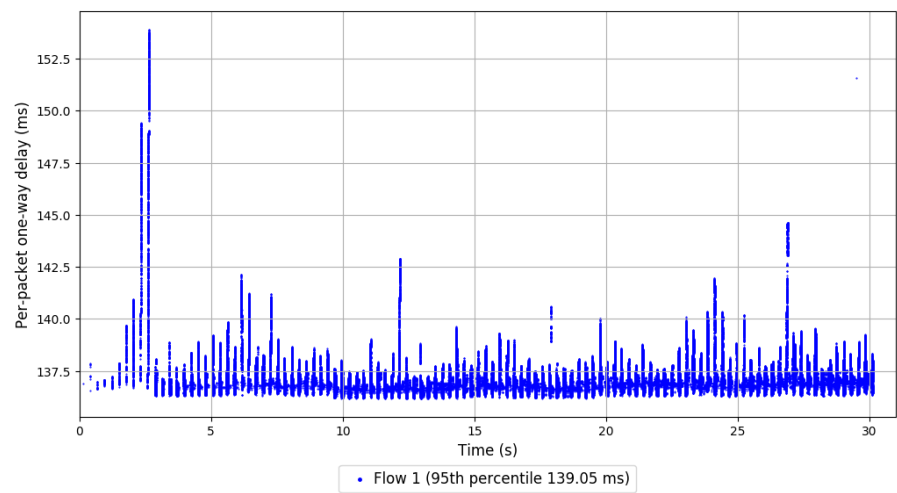
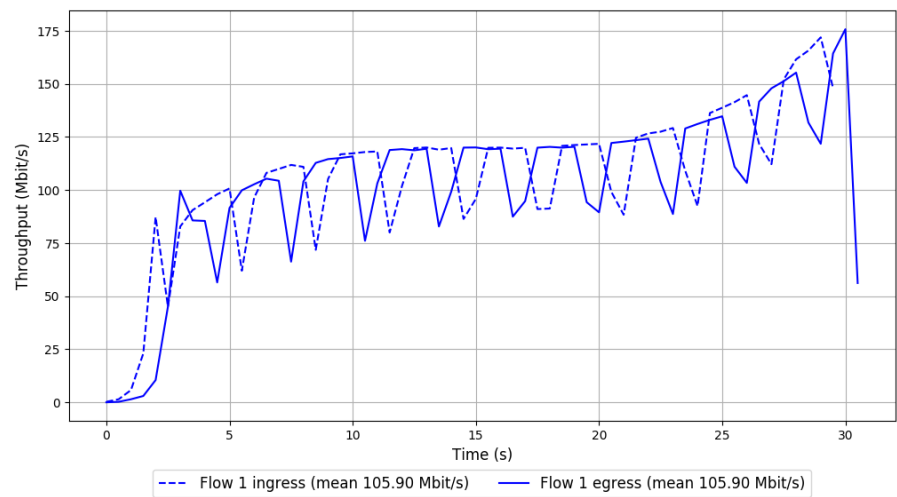


Run 6: Statistics of TCP Cubic

Start at: 2018-08-11 02:55:20
End at: 2018-08-11 02:55:50
Local clock offset: 0.391 ms
Remote clock offset: -0.105 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 105.90 Mbit/s
95th percentile per-packet one-way delay: 139.052 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 105.90 Mbit/s
95th percentile per-packet one-way delay: 139.052 ms
Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link

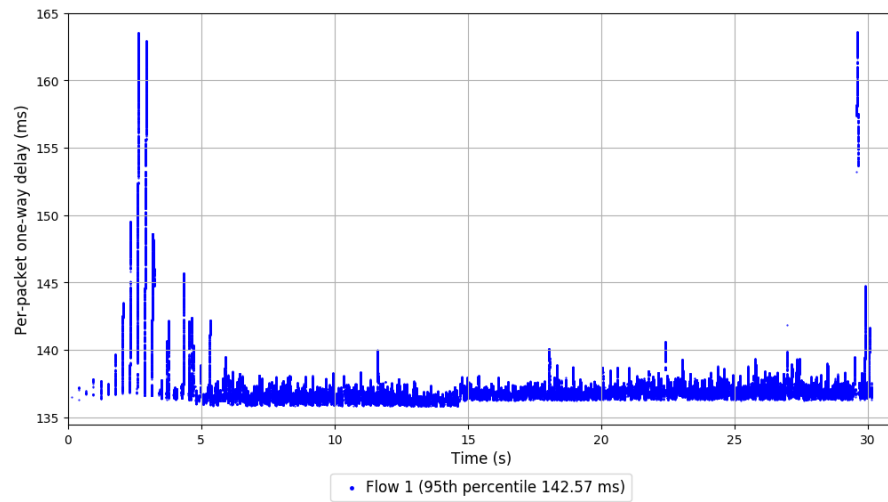
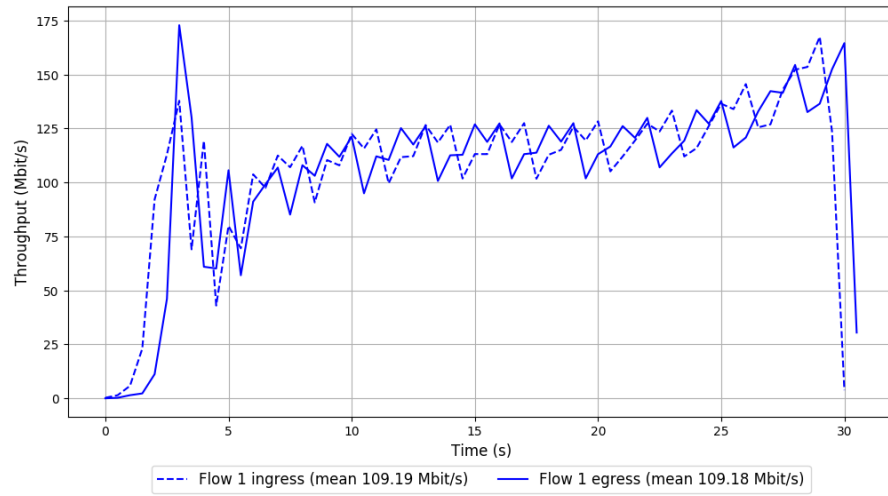


Run 7: Statistics of TCP Cubic

Start at: 2018-08-11 03:18:55
End at: 2018-08-11 03:19:25
Local clock offset: 0.375 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 109.18 Mbit/s
95th percentile per-packet one-way delay: 142.575 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 109.18 Mbit/s
95th percentile per-packet one-way delay: 142.575 ms
Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link

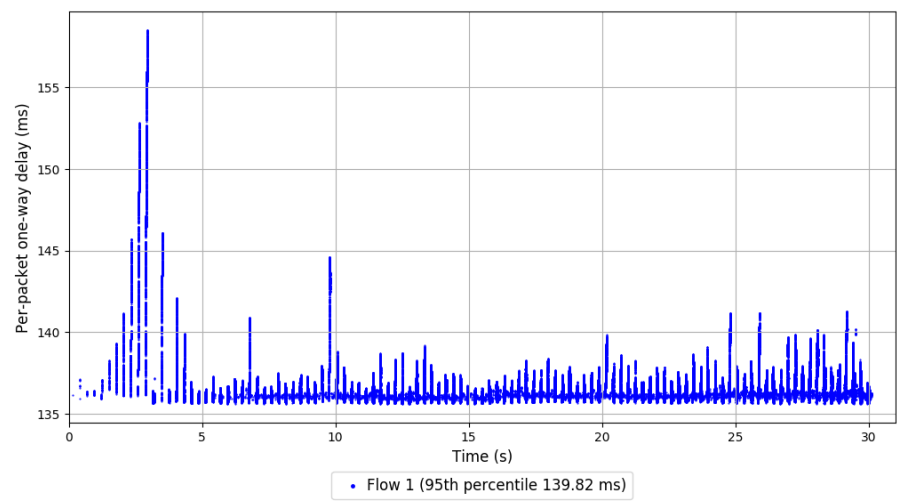
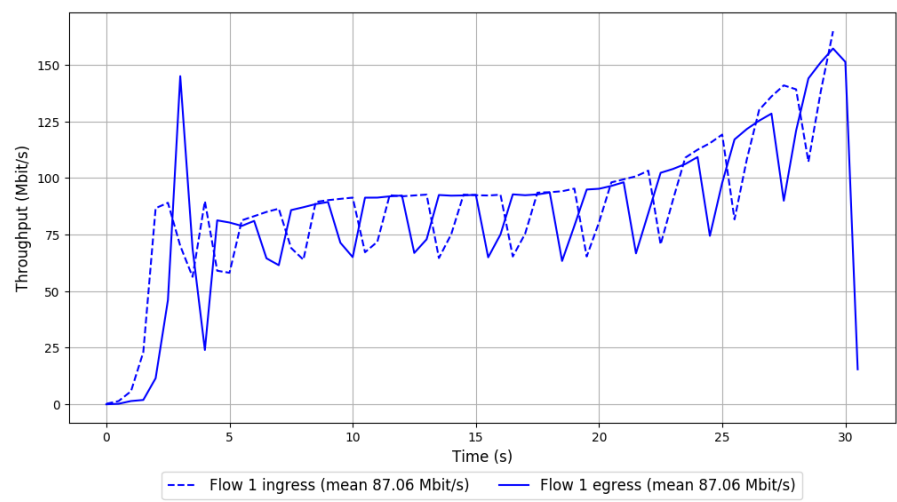


Run 8: Statistics of TCP Cubic

Start at: 2018-08-11 03:42:33
End at: 2018-08-11 03:43:03
Local clock offset: 0.394 ms
Remote clock offset: -0.165 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 139.825 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.06 Mbit/s
95th percentile per-packet one-way delay: 139.825 ms
Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link

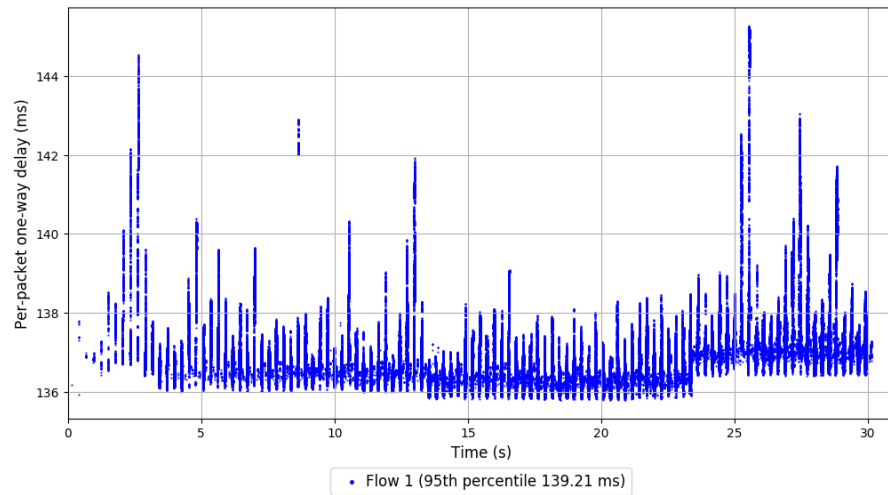
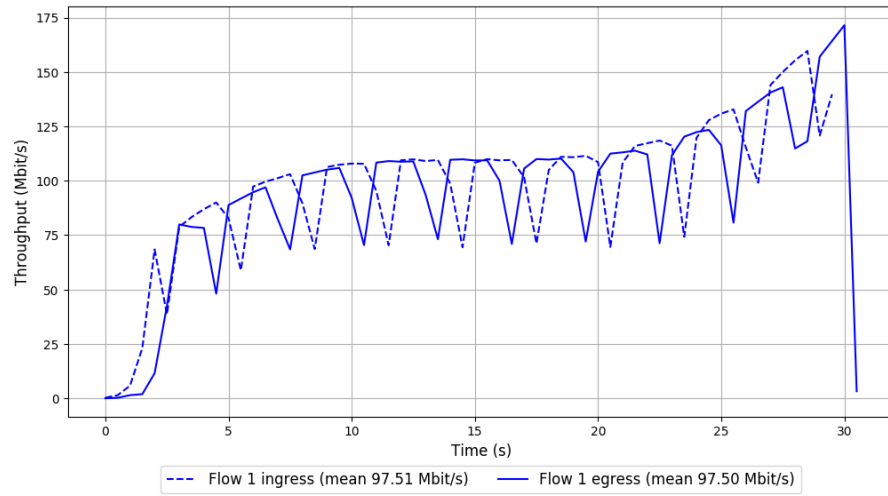


Run 9: Statistics of TCP Cubic

Start at: 2018-08-11 04:06:06
End at: 2018-08-11 04:06:36
Local clock offset: 0.211 ms
Remote clock offset: -0.192 ms

Below is generated by plot.py at 2018-08-11 05:02:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 139.214 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 97.50 Mbit/s
95th percentile per-packet one-way delay: 139.214 ms
Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-08-11 04:29:45

End at: 2018-08-11 04:30:15

Local clock offset: 0.075 ms

Remote clock offset: -0.559 ms

Below is generated by plot.py at 2018-08-11 05:02:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 118.03 Mbit/s

95th percentile per-packet one-way delay: 139.250 ms

Loss rate: 0.00%

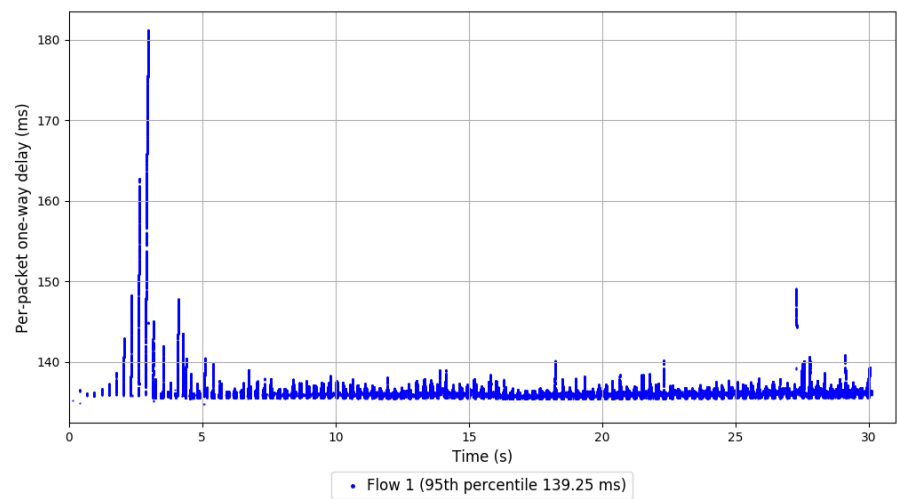
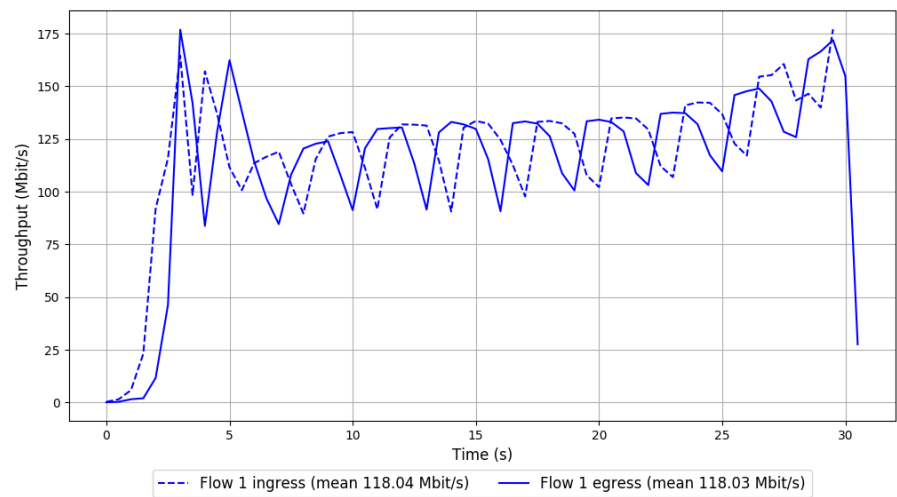
-- Flow 1:

Average throughput: 118.03 Mbit/s

95th percentile per-packet one-way delay: 139.250 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

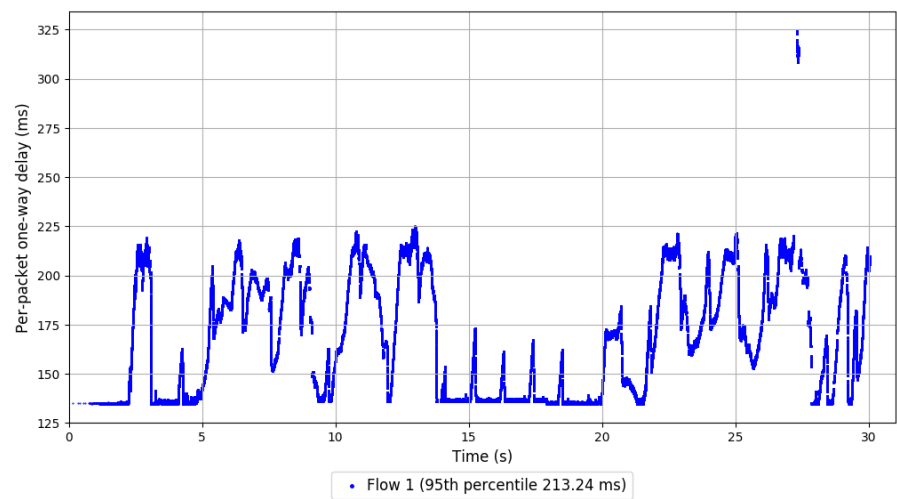
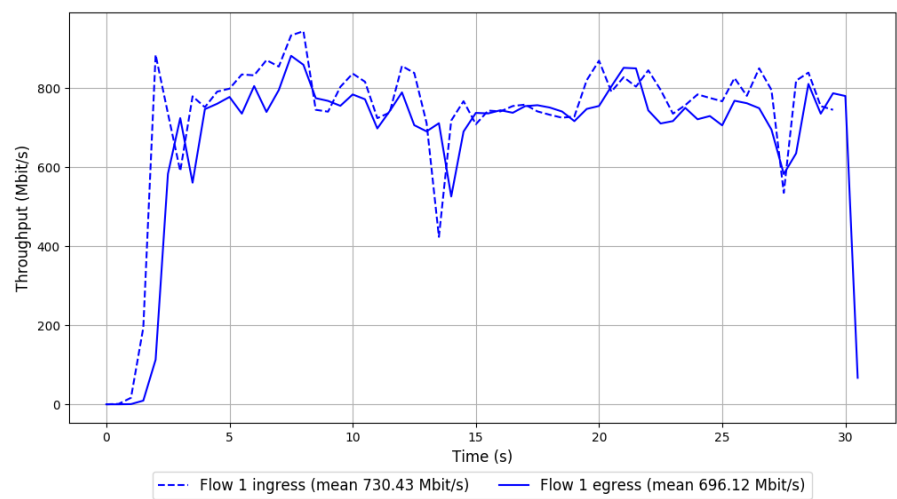


Run 1: Statistics of FillP

Start at: 2018-08-11 00:51:11
End at: 2018-08-11 00:51:41
Local clock offset: 0.076 ms
Remote clock offset: -0.264 ms

Below is generated by plot.py at 2018-08-11 05:17:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 696.12 Mbit/s
95th percentile per-packet one-way delay: 213.239 ms
Loss rate: 4.69%
-- Flow 1:
Average throughput: 696.12 Mbit/s
95th percentile per-packet one-way delay: 213.239 ms
Loss rate: 4.69%

Run 1: Report of FillP — Data Link

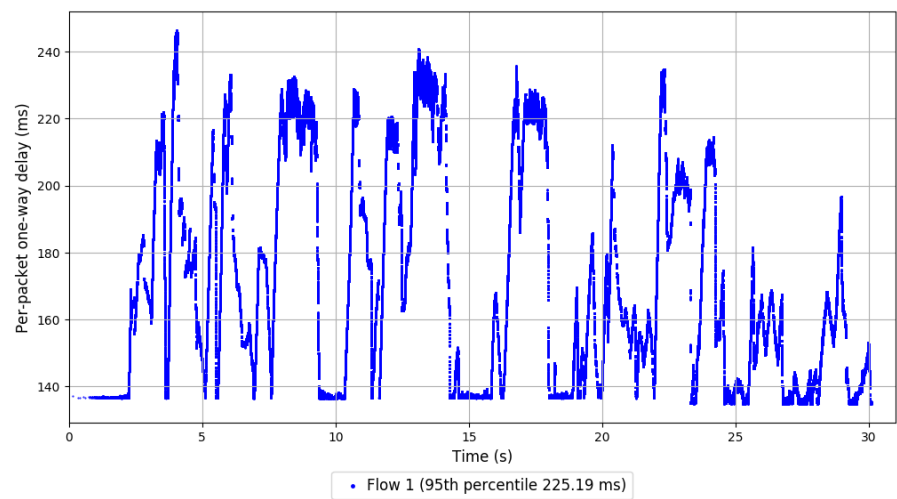
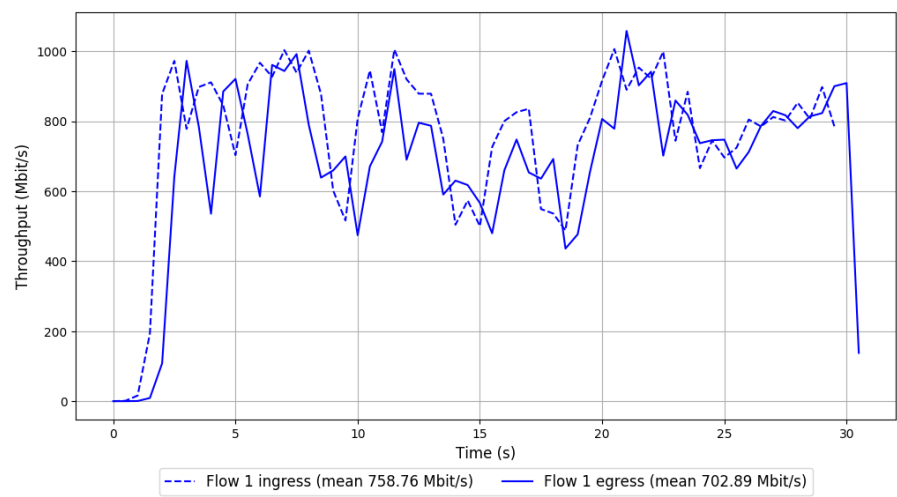


Run 2: Statistics of FillP

Start at: 2018-08-11 01:14:16
End at: 2018-08-11 01:14:46
Local clock offset: 0.084 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-08-11 05:17:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 702.89 Mbit/s
95th percentile per-packet one-way delay: 225.185 ms
Loss rate: 7.37%
-- Flow 1:
Average throughput: 702.89 Mbit/s
95th percentile per-packet one-way delay: 225.185 ms
Loss rate: 7.37%

Run 2: Report of FillP — Data Link

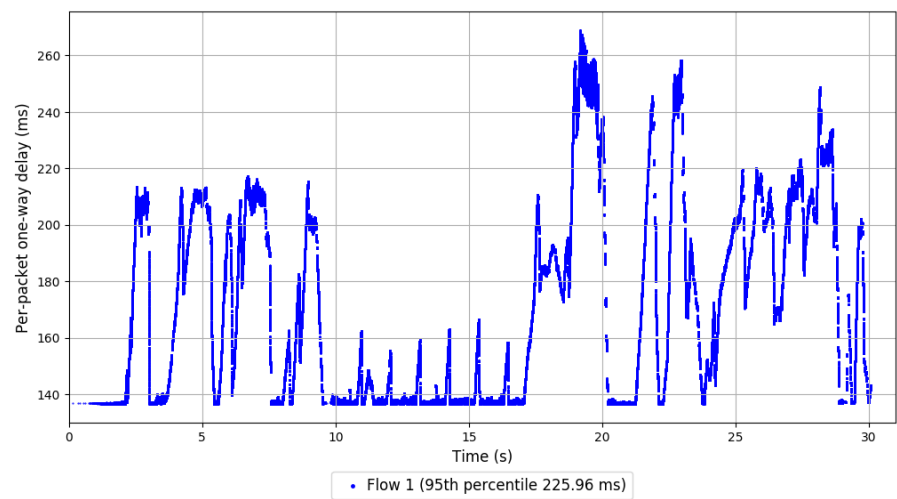
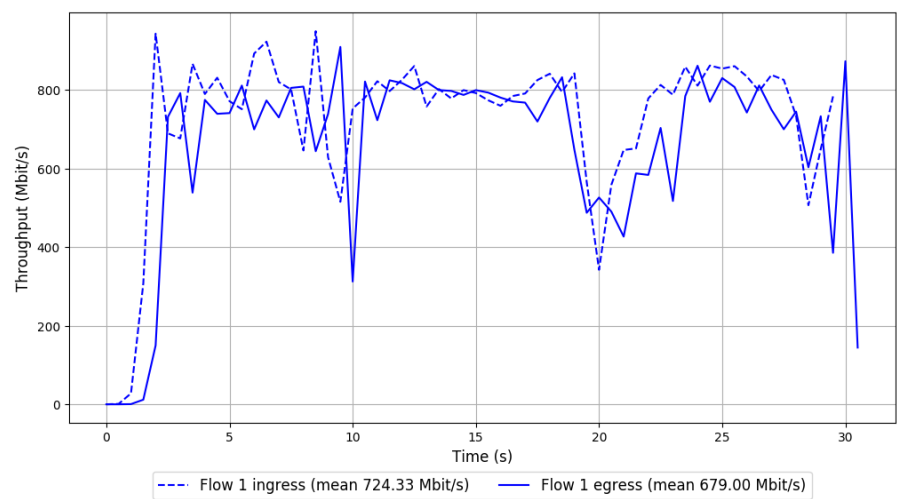


Run 3: Statistics of FillP

Start at: 2018-08-11 01:37:41
End at: 2018-08-11 01:38:11
Local clock offset: 0.105 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-08-11 05:17:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 679.00 Mbit/s
95th percentile per-packet one-way delay: 225.963 ms
Loss rate: 6.25%
-- Flow 1:
Average throughput: 679.00 Mbit/s
95th percentile per-packet one-way delay: 225.963 ms
Loss rate: 6.25%

Run 3: Report of FillP — Data Link

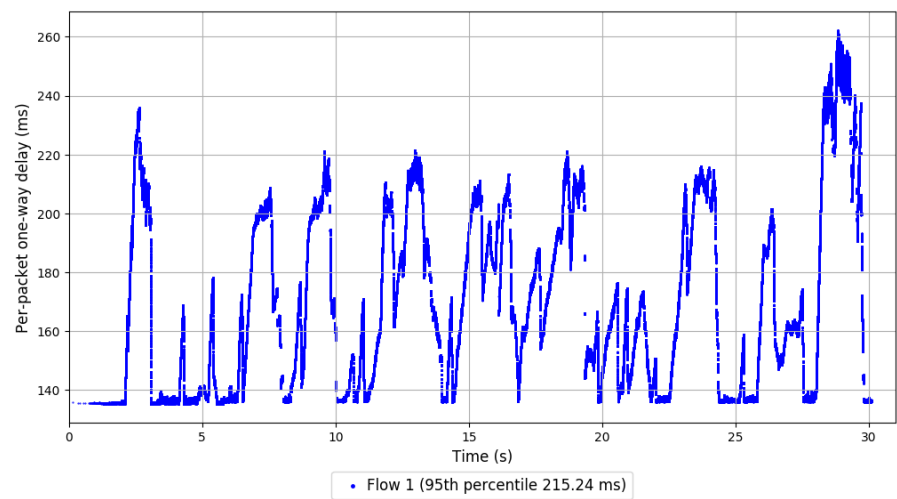
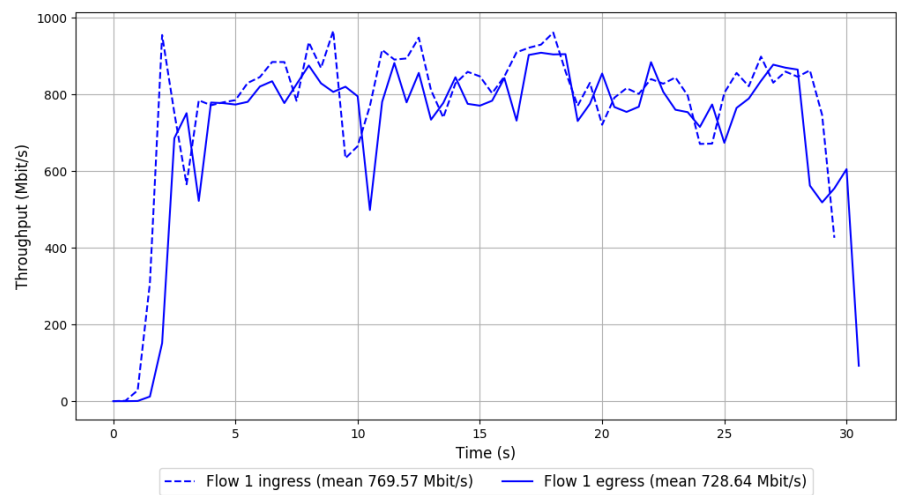


Run 4: Statistics of FillP

Start at: 2018-08-11 02:01:23
End at: 2018-08-11 02:01:53
Local clock offset: 0.489 ms
Remote clock offset: -0.488 ms

Below is generated by plot.py at 2018-08-11 05:18:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 728.64 Mbit/s
95th percentile per-packet one-way delay: 215.241 ms
Loss rate: 5.32%
-- Flow 1:
Average throughput: 728.64 Mbit/s
95th percentile per-packet one-way delay: 215.241 ms
Loss rate: 5.32%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-08-11 02:24:46

End at: 2018-08-11 02:25:16

Local clock offset: 0.057 ms

Remote clock offset: 0.178 ms

Below is generated by plot.py at 2018-08-11 05:18:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 723.41 Mbit/s

95th percentile per-packet one-way delay: 213.518 ms

Loss rate: 6.46%

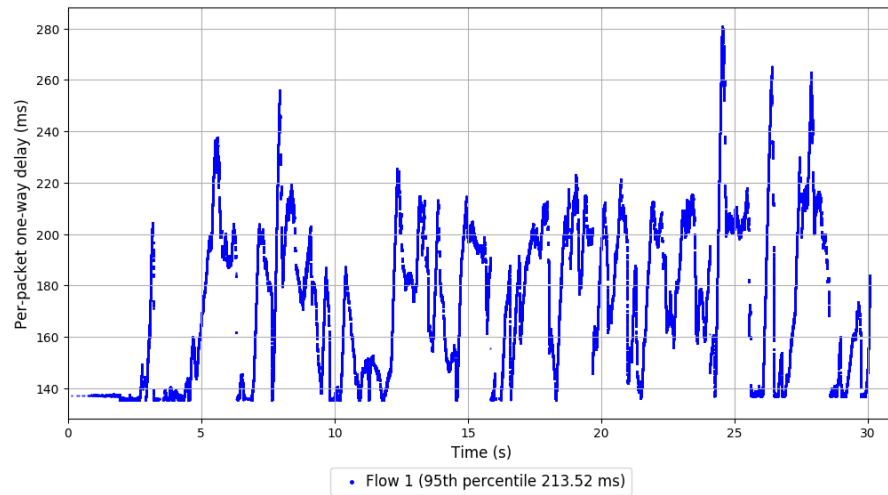
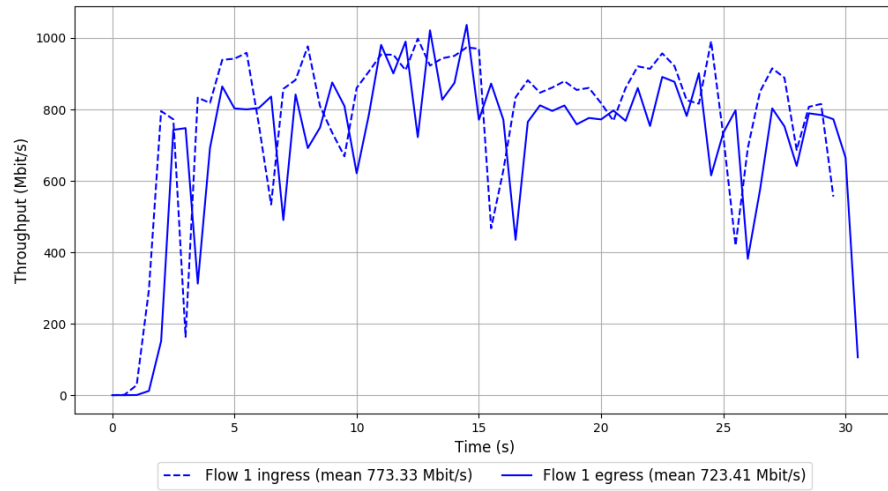
-- Flow 1:

Average throughput: 723.41 Mbit/s

95th percentile per-packet one-way delay: 213.518 ms

Loss rate: 6.46%

Run 5: Report of FillP — Data Link

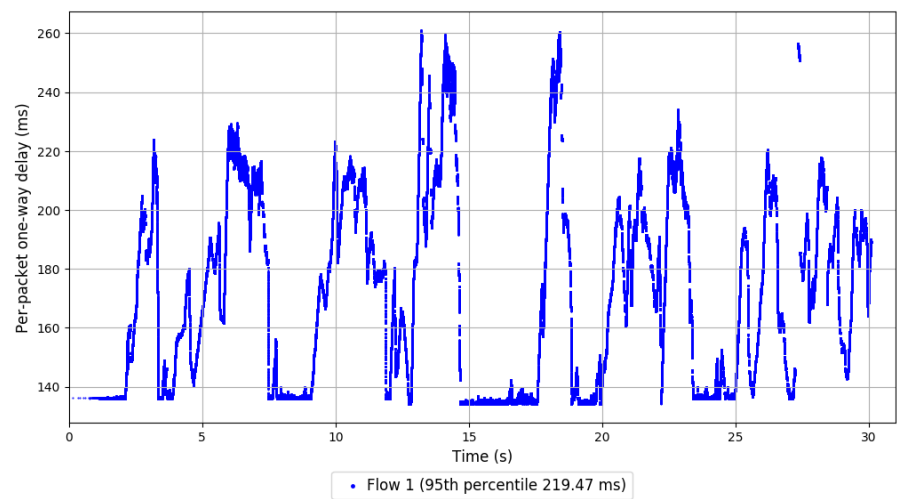
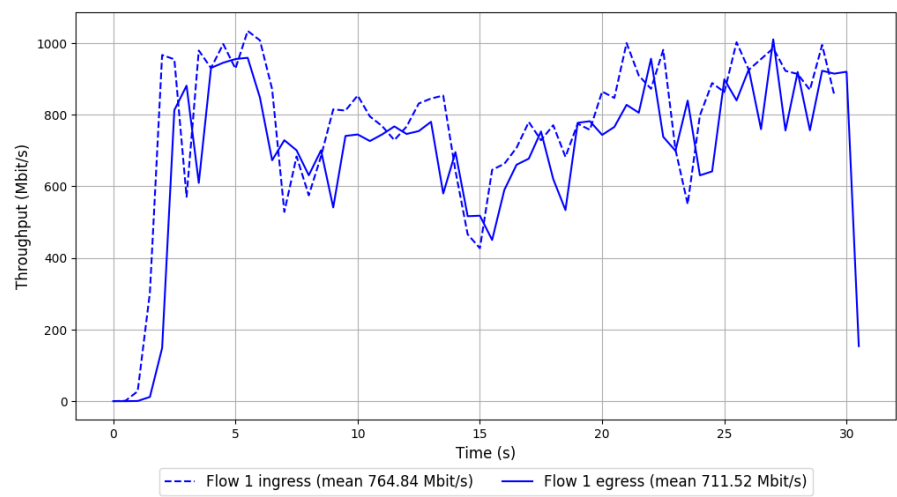


Run 6: Statistics of FillP

Start at: 2018-08-11 02:48:07
End at: 2018-08-11 02:48:37
Local clock offset: 0.374 ms
Remote clock offset: -0.524 ms

Below is generated by plot.py at 2018-08-11 05:18:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 711.52 Mbit/s
95th percentile per-packet one-way delay: 219.465 ms
Loss rate: 6.97%
-- Flow 1:
Average throughput: 711.52 Mbit/s
95th percentile per-packet one-way delay: 219.465 ms
Loss rate: 6.97%

Run 6: Report of FillP — Data Link

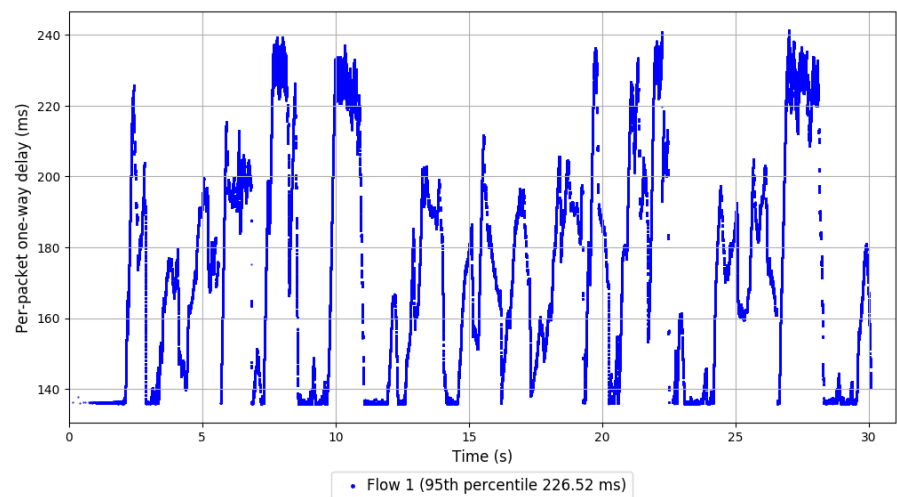
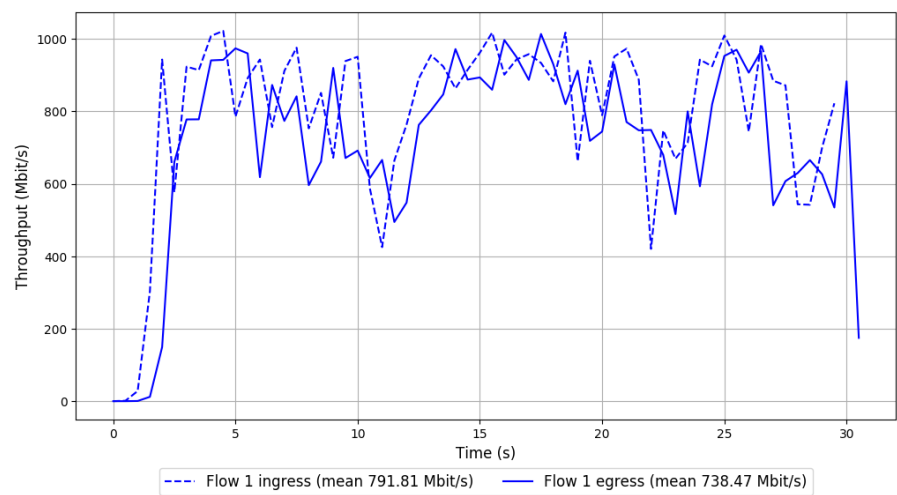


Run 7: Statistics of FillP

Start at: 2018-08-11 03:11:41
End at: 2018-08-11 03:12:11
Local clock offset: 0.119 ms
Remote clock offset: -0.195 ms

Below is generated by plot.py at 2018-08-11 05:19:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 738.47 Mbit/s
95th percentile per-packet one-way delay: 226.519 ms
Loss rate: 6.74%
-- Flow 1:
Average throughput: 738.47 Mbit/s
95th percentile per-packet one-way delay: 226.519 ms
Loss rate: 6.74%

Run 7: Report of FillP — Data Link

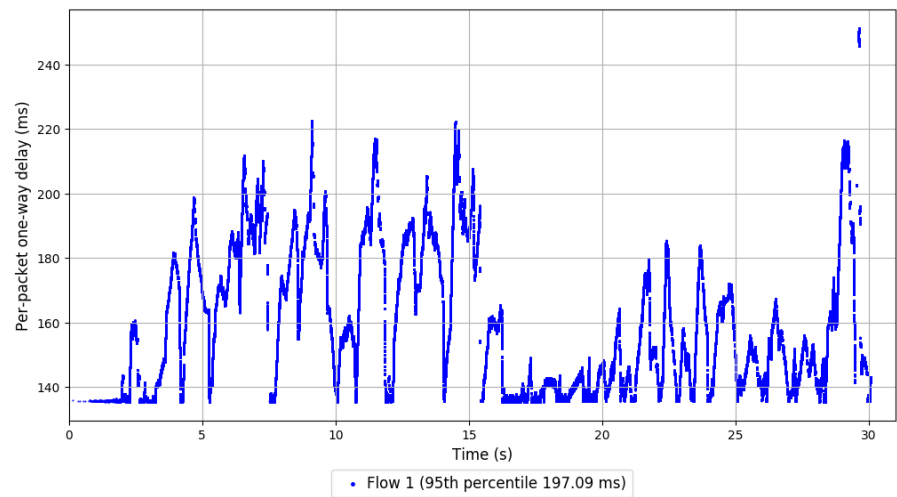
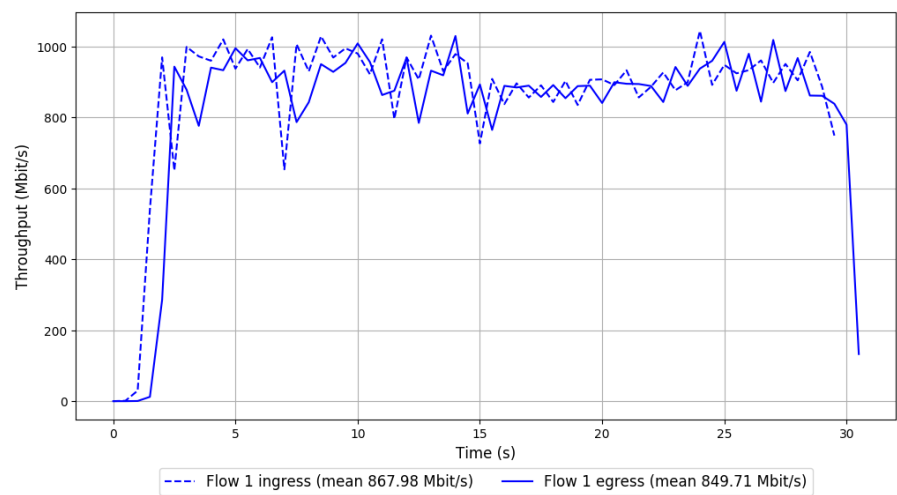


Run 8: Statistics of FillP

Start at: 2018-08-11 03:35:11
End at: 2018-08-11 03:35:41
Local clock offset: 0.297 ms
Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-08-11 05:21:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 849.71 Mbit/s
95th percentile per-packet one-way delay: 197.094 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 849.71 Mbit/s
95th percentile per-packet one-way delay: 197.094 ms
Loss rate: 2.10%

Run 8: Report of FillP — Data Link

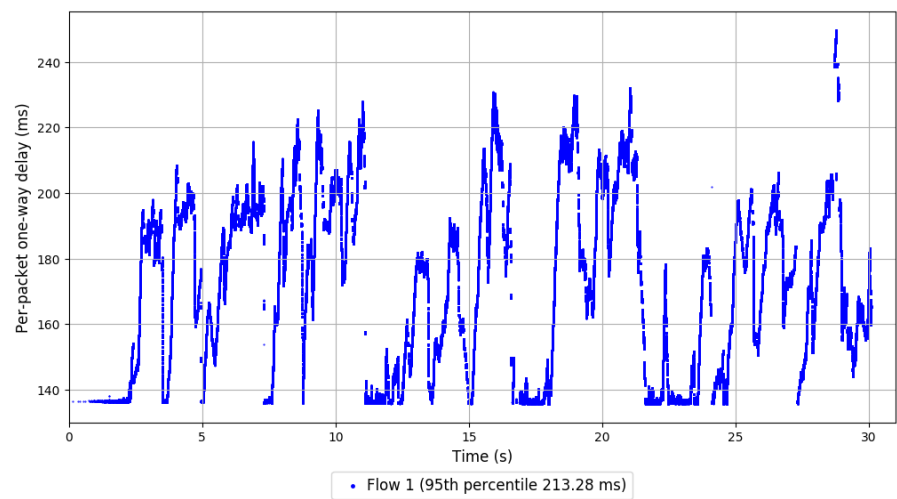
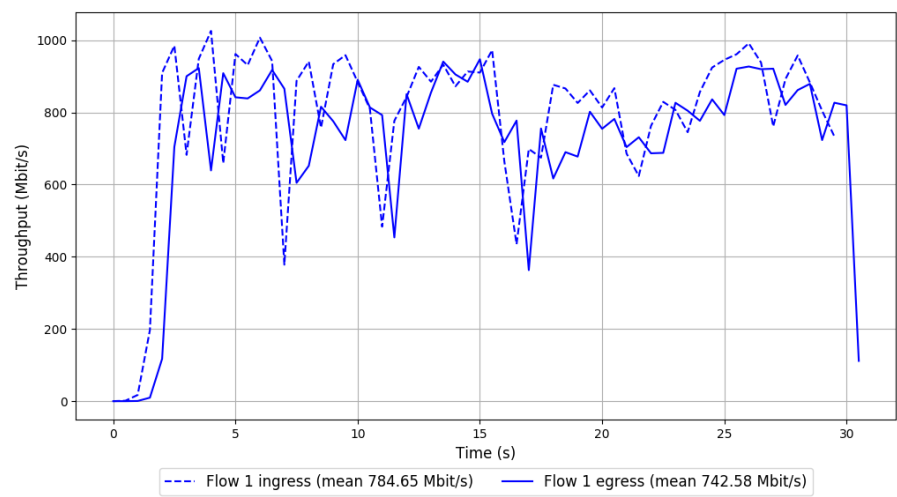


Run 9: Statistics of FillP

Start at: 2018-08-11 03:58:33
End at: 2018-08-11 03:59:03
Local clock offset: 0.505 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-08-11 05:33:52
Datalink statistics
-- Total of 1 flow:
Average throughput: 742.58 Mbit/s
95th percentile per-packet one-way delay: 213.280 ms
Loss rate: 5.36%
-- Flow 1:
Average throughput: 742.58 Mbit/s
95th percentile per-packet one-way delay: 213.280 ms
Loss rate: 5.36%

Run 9: Report of FillP — Data Link

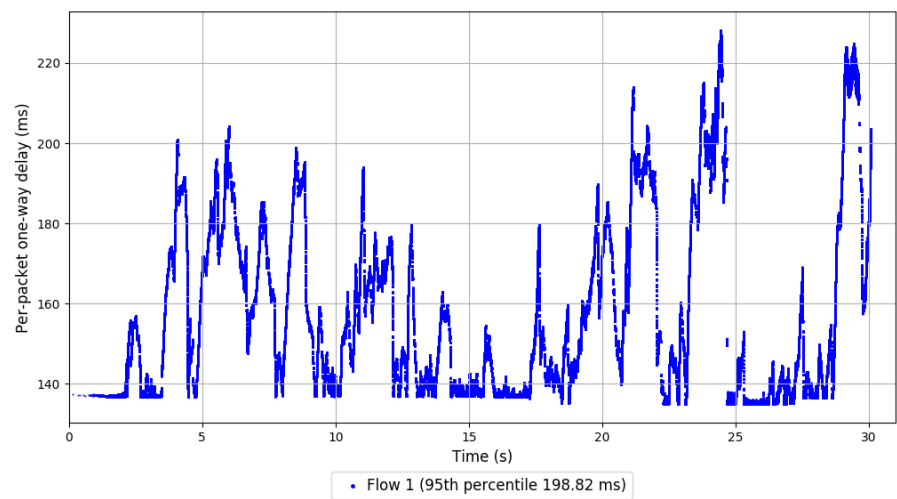
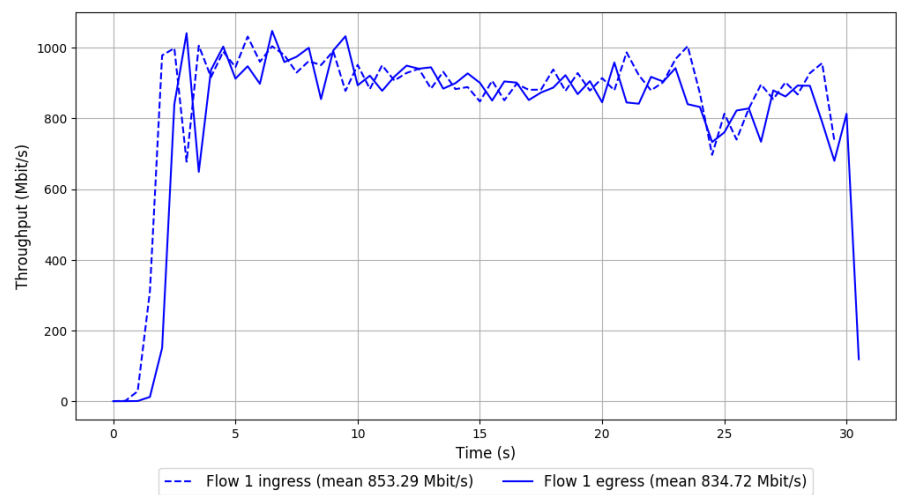


Run 10: Statistics of FillP

Start at: 2018-08-11 04:22:21
End at: 2018-08-11 04:22:51
Local clock offset: 0.213 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-08-11 05:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 834.72 Mbit/s
95th percentile per-packet one-way delay: 198.822 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 834.72 Mbit/s
95th percentile per-packet one-way delay: 198.822 ms
Loss rate: 2.18%

Run 10: Report of FillP — Data Link

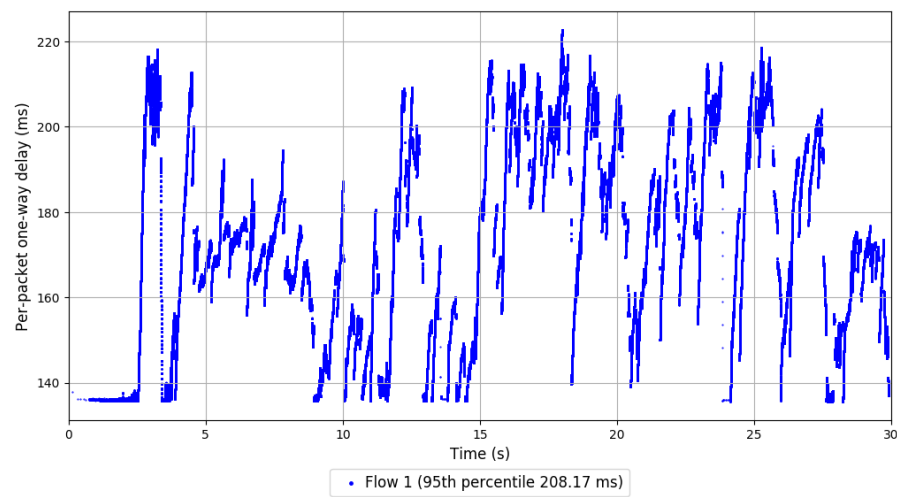
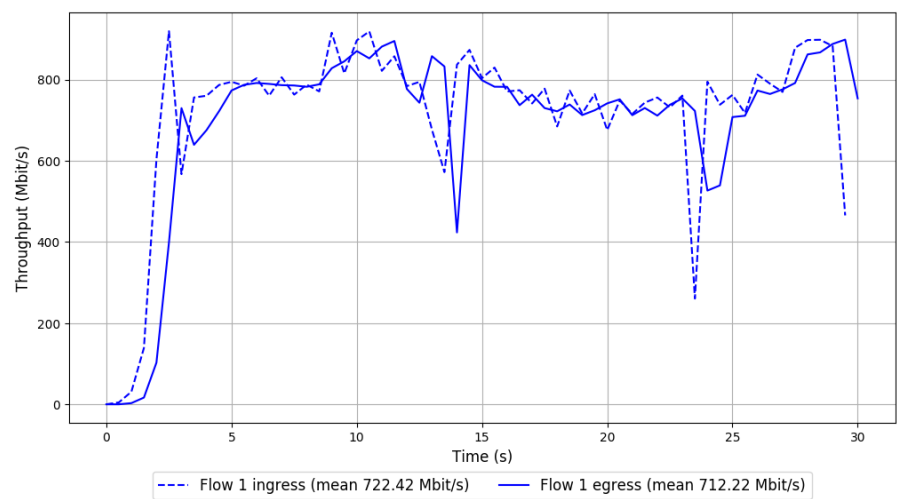


Run 1: Statistics of FillP-Sheep

Start at: 2018-08-11 00:55:11
End at: 2018-08-11 00:55:41
Local clock offset: 0.186 ms
Remote clock offset: -0.262 ms

Below is generated by plot.py at 2018-08-11 05:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 712.22 Mbit/s
95th percentile per-packet one-way delay: 208.171 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 712.22 Mbit/s
95th percentile per-packet one-way delay: 208.171 ms
Loss rate: 1.42%

Run 1: Report of FillP-Sheep — Data Link

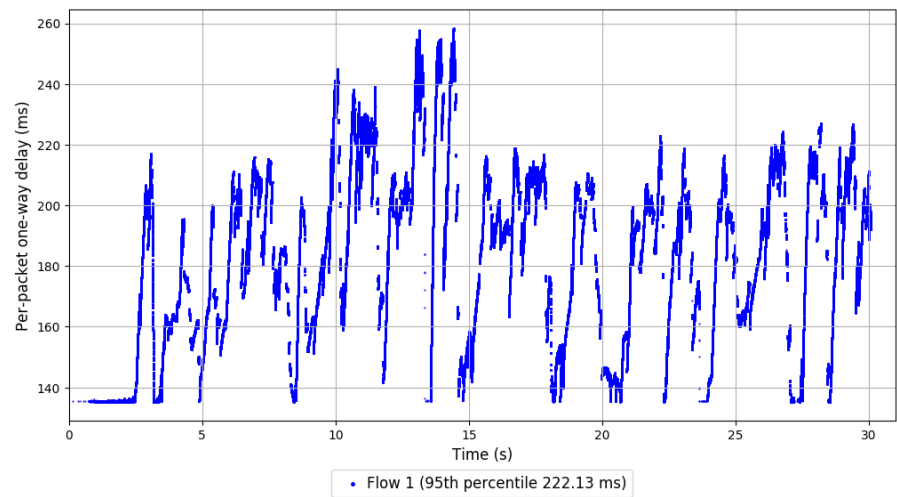
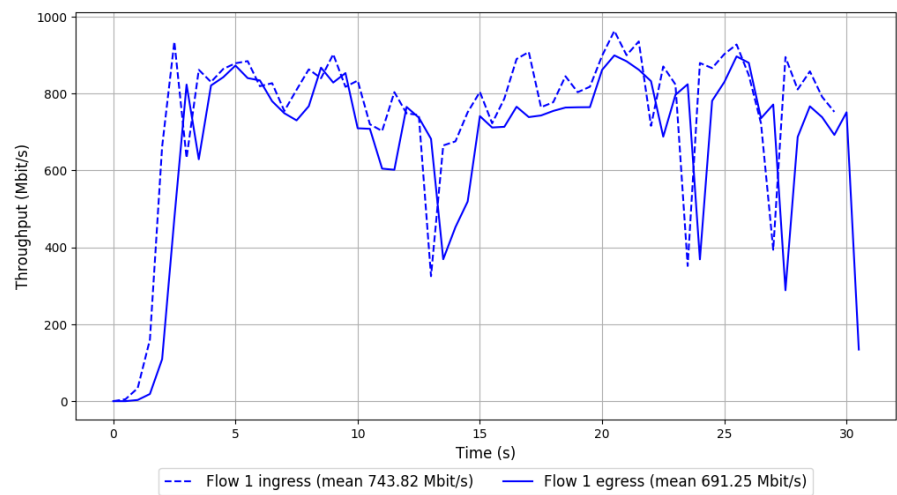


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-11 01:18:16
End at: 2018-08-11 01:18:46
Local clock offset: 0.203 ms
Remote clock offset: -0.714 ms

Below is generated by plot.py at 2018-08-11 05:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 691.25 Mbit/s
95th percentile per-packet one-way delay: 222.127 ms
Loss rate: 7.06%
-- Flow 1:
Average throughput: 691.25 Mbit/s
95th percentile per-packet one-way delay: 222.127 ms
Loss rate: 7.06%

Run 2: Report of FillP-Sheep — Data Link

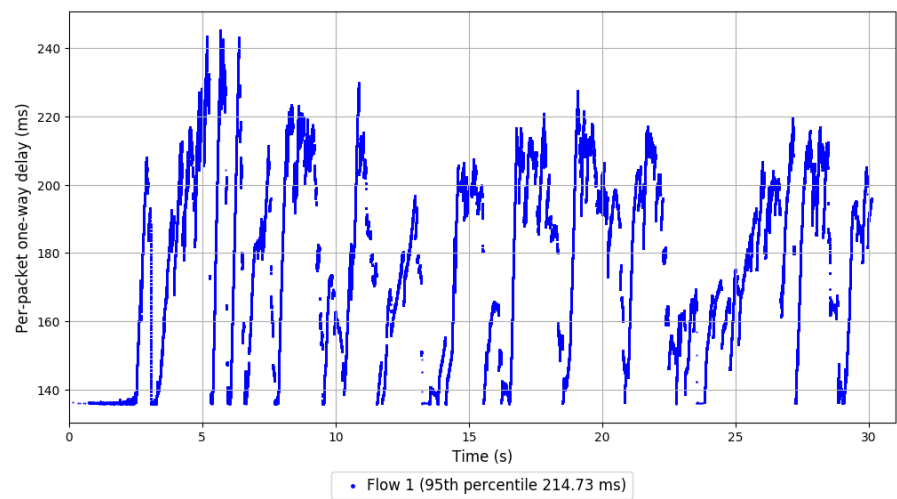
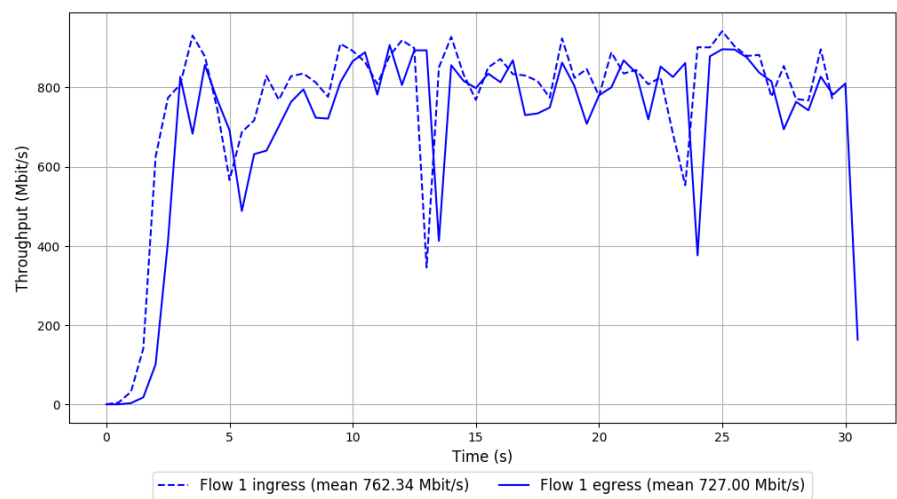


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-11 01:41:40
End at: 2018-08-11 01:42:10
Local clock offset: 0.365 ms
Remote clock offset: -0.2 ms

Below is generated by plot.py at 2018-08-11 05:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 727.00 Mbit/s
95th percentile per-packet one-way delay: 214.732 ms
Loss rate: 4.63%
-- Flow 1:
Average throughput: 727.00 Mbit/s
95th percentile per-packet one-way delay: 214.732 ms
Loss rate: 4.63%

Run 3: Report of FillP-Sheep — Data Link

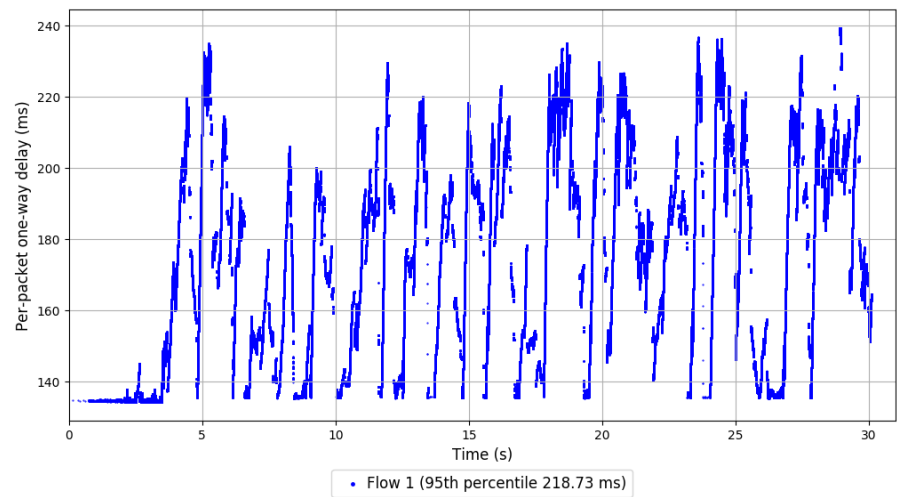
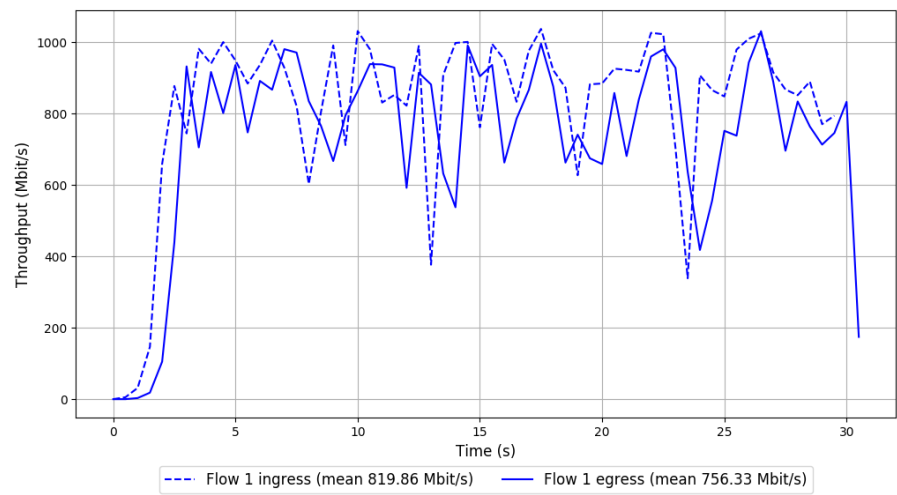


Run 4: Statistics of FillP-Sheep

Start at: 2018-08-11 02:05:25
End at: 2018-08-11 02:05:55
Local clock offset: 0.155 ms
Remote clock offset: -0.497 ms

Below is generated by plot.py at 2018-08-11 05:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 756.33 Mbit/s
95th percentile per-packet one-way delay: 218.729 ms
Loss rate: 7.74%
-- Flow 1:
Average throughput: 756.33 Mbit/s
95th percentile per-packet one-way delay: 218.729 ms
Loss rate: 7.74%

Run 4: Report of FillP-Sheep — Data Link

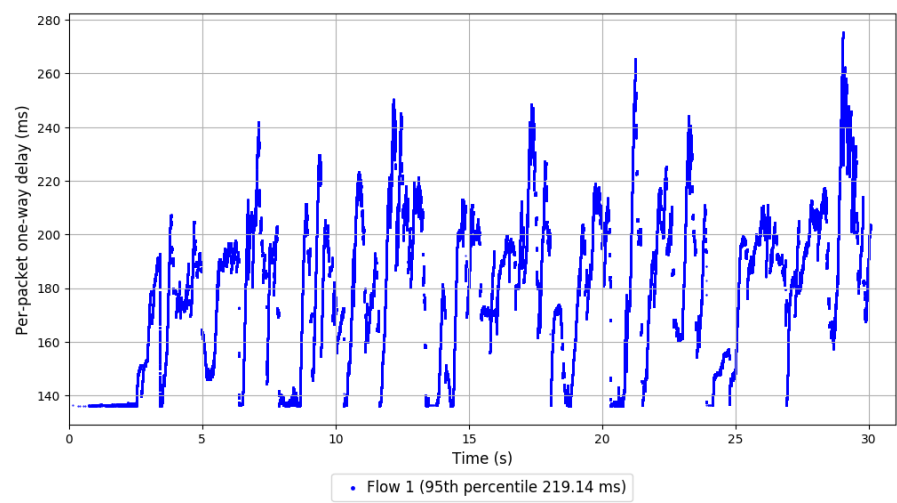
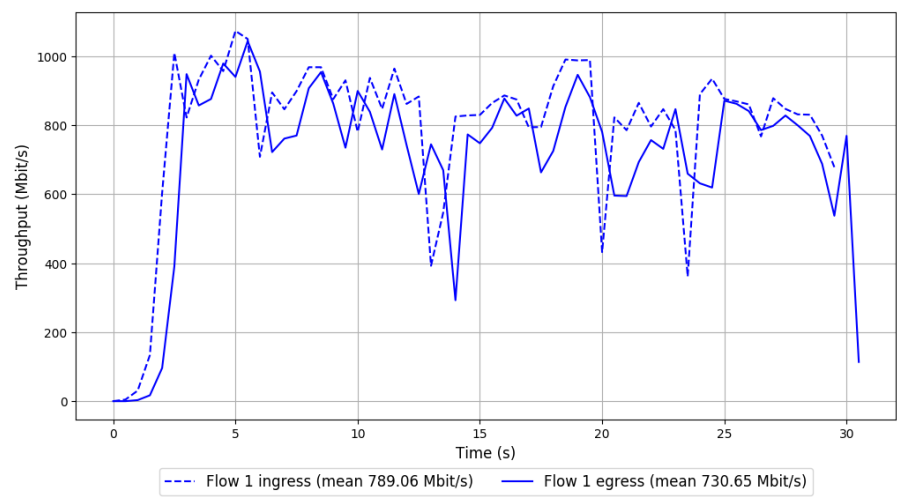


Run 5: Statistics of FillP-Sheep

Start at: 2018-08-11 02:28:47
End at: 2018-08-11 02:29:17
Local clock offset: 0.387 ms
Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-08-11 05:36:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 730.65 Mbit/s
95th percentile per-packet one-way delay: 219.137 ms
Loss rate: 7.40%
-- Flow 1:
Average throughput: 730.65 Mbit/s
95th percentile per-packet one-way delay: 219.137 ms
Loss rate: 7.40%

Run 5: Report of FillP-Sheep — Data Link

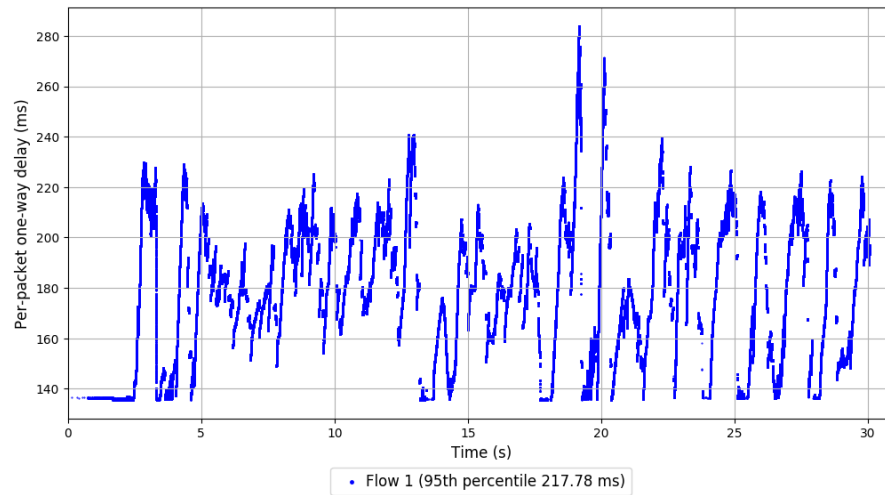
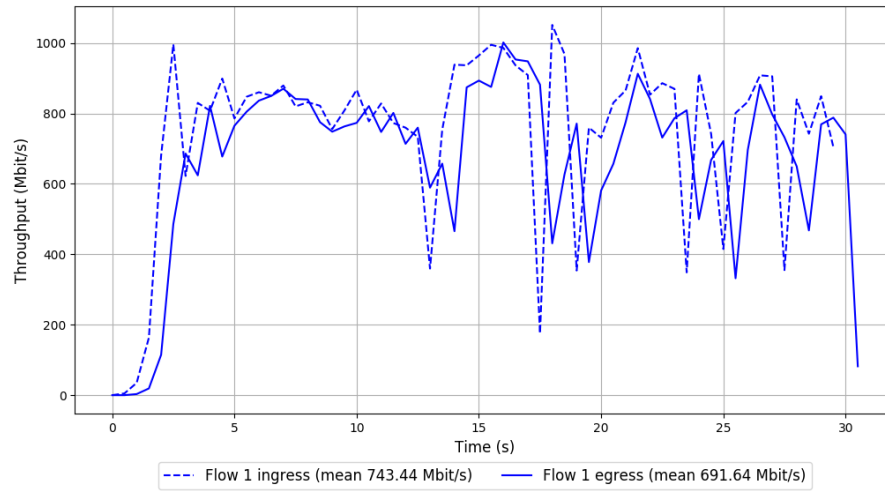


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-11 02:52:07
End at: 2018-08-11 02:52:37
Local clock offset: 0.514 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-08-11 05:38:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 691.64 Mbit/s
95th percentile per-packet one-way delay: 217.784 ms
Loss rate: 6.96%
-- Flow 1:
Average throughput: 691.64 Mbit/s
95th percentile per-packet one-way delay: 217.784 ms
Loss rate: 6.96%

Run 6: Report of FillP-Sheep — Data Link

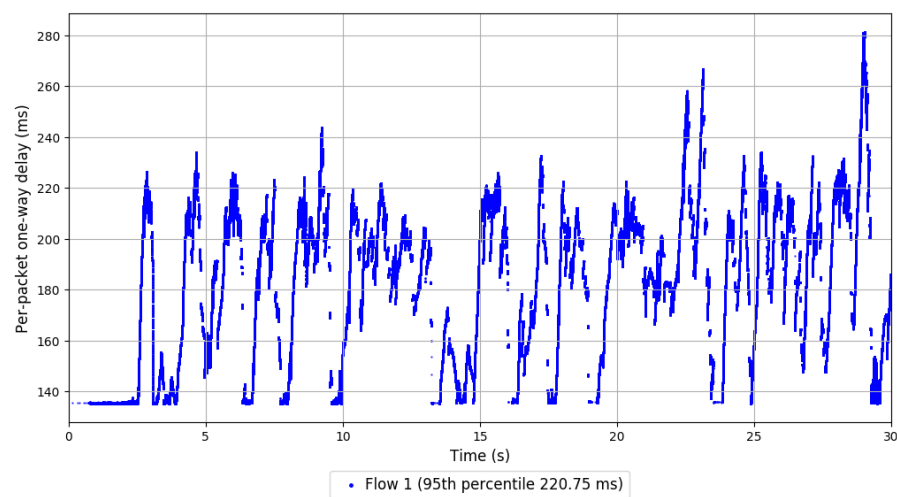
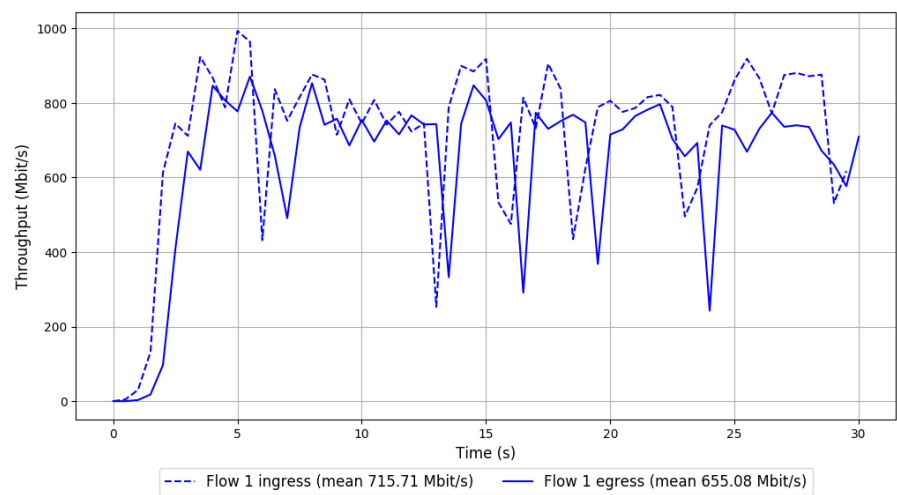


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-11 03:15:44
End at: 2018-08-11 03:16:14
Local clock offset: 0.446 ms
Remote clock offset: -0.071 ms

Below is generated by plot.py at 2018-08-11 05:48:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 655.08 Mbit/s
95th percentile per-packet one-way delay: 220.753 ms
Loss rate: 8.47%
-- Flow 1:
Average throughput: 655.08 Mbit/s
95th percentile per-packet one-way delay: 220.753 ms
Loss rate: 8.47%

Run 7: Report of FillP-Sheep — Data Link



Run 8: Statistics of FillP-Sheep

Start at: 2018-08-11 03:39:18

End at: 2018-08-11 03:39:48

Local clock offset: 0.288 ms

Remote clock offset: 0.176 ms

Below is generated by plot.py at 2018-08-11 05:49:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 705.71 Mbit/s

95th percentile per-packet one-way delay: 216.957 ms

Loss rate: 8.86%

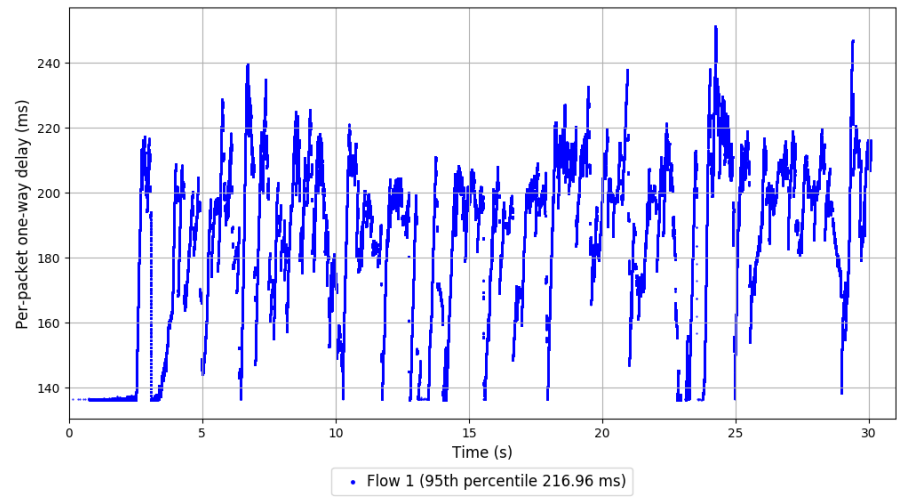
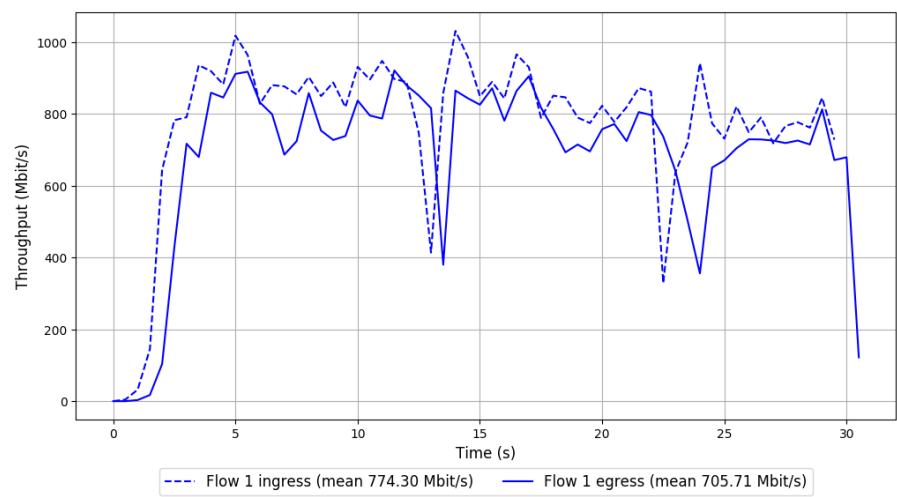
-- Flow 1:

Average throughput: 705.71 Mbit/s

95th percentile per-packet one-way delay: 216.957 ms

Loss rate: 8.86%

Run 8: Report of FillP-Sheep — Data Link

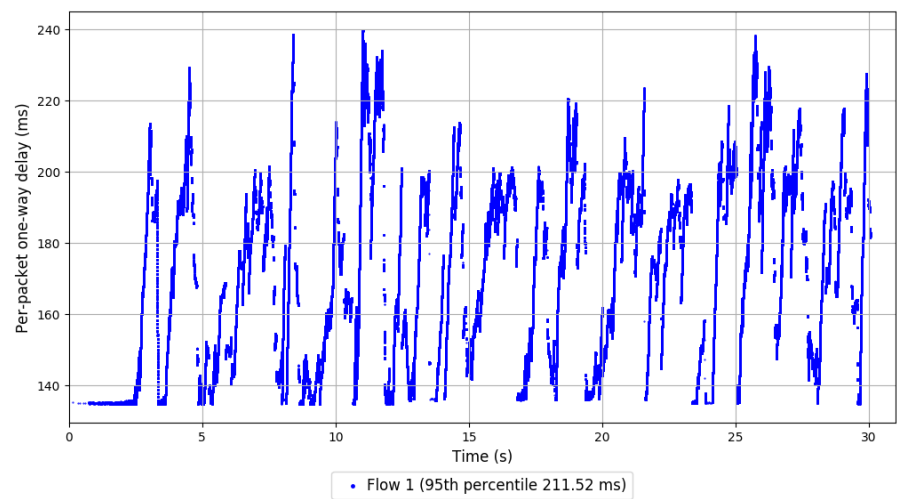
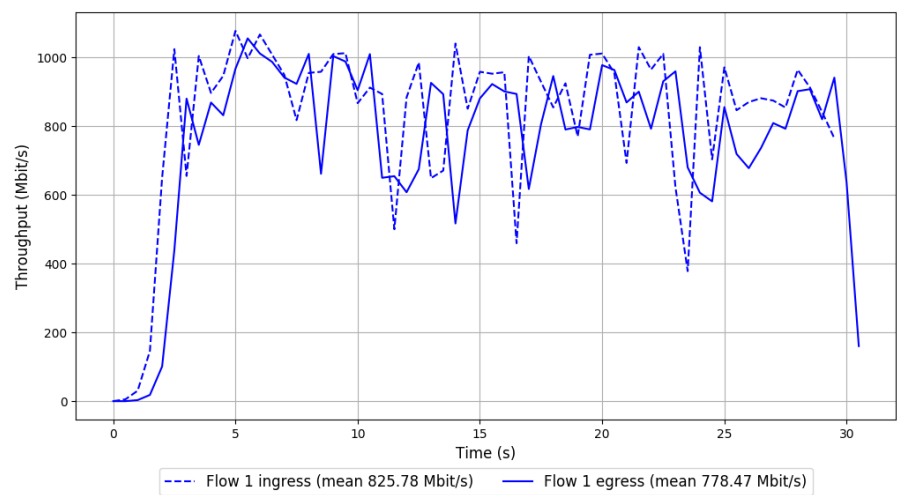


Run 9: Statistics of FillP-Sheep

Start at: 2018-08-11 04:02:47
End at: 2018-08-11 04:03:17
Local clock offset: 0.449 ms
Remote clock offset: -0.128 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 778.47 Mbit/s
95th percentile per-packet one-way delay: 211.523 ms
Loss rate: 5.73%
-- Flow 1:
Average throughput: 778.47 Mbit/s
95th percentile per-packet one-way delay: 211.523 ms
Loss rate: 5.73%

Run 9: Report of FillP-Sheep — Data Link



Run 10: Statistics of FillP-Sheep

Start at: 2018-08-11 04:26:27

End at: 2018-08-11 04:26:57

Local clock offset: 0.317 ms

Remote clock offset: -0.255 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 738.19 Mbit/s

95th percentile per-packet one-way delay: 217.760 ms

Loss rate: 7.97%

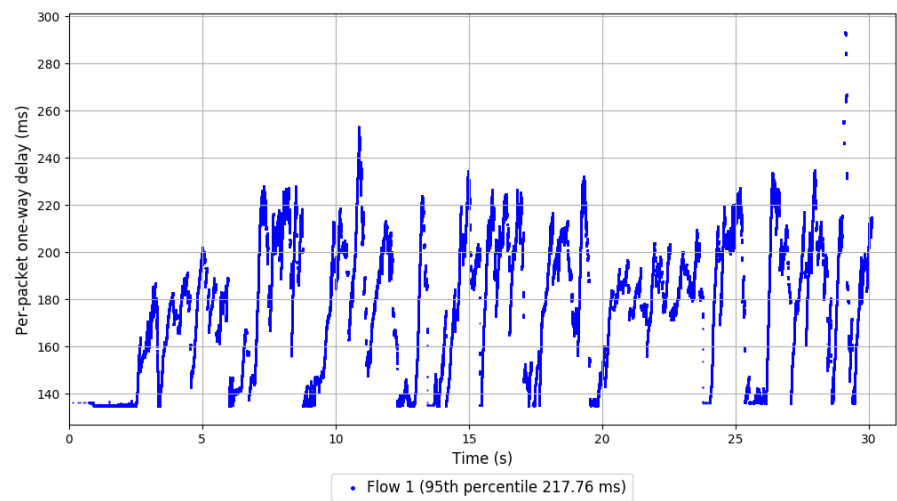
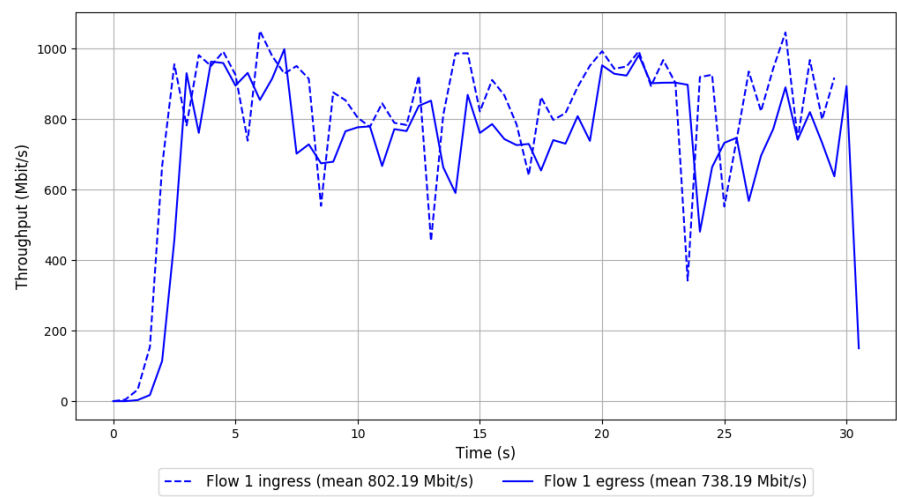
-- Flow 1:

Average throughput: 738.19 Mbit/s

95th percentile per-packet one-way delay: 217.760 ms

Loss rate: 7.97%

Run 10: Report of FillP-Sheep — Data Link

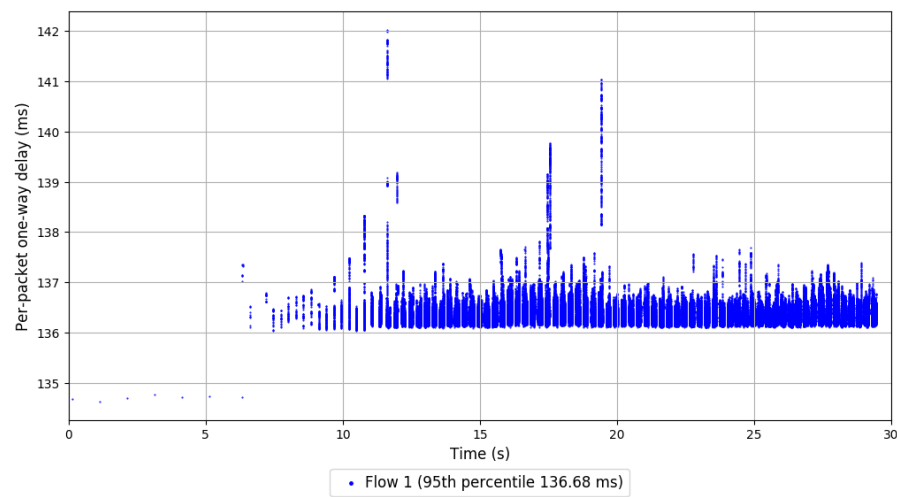
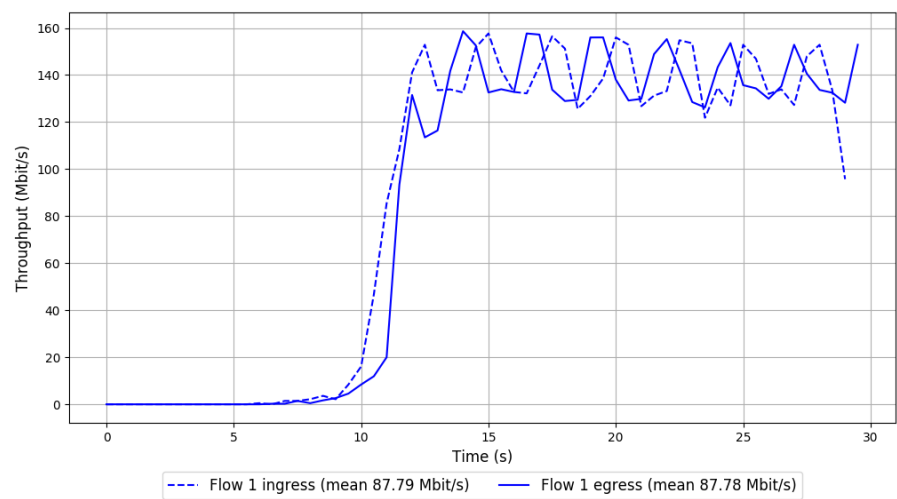


Run 1: Statistics of Indigo

Start at: 2018-08-11 00:44:18
End at: 2018-08-11 00:44:48
Local clock offset: 0.31 ms
Remote clock offset: -0.276 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 136.678 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 87.78 Mbit/s
95th percentile per-packet one-way delay: 136.678 ms
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-08-11 01:07:30

End at: 2018-08-11 01:08:01

Local clock offset: 0.215 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 156.07 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.00%

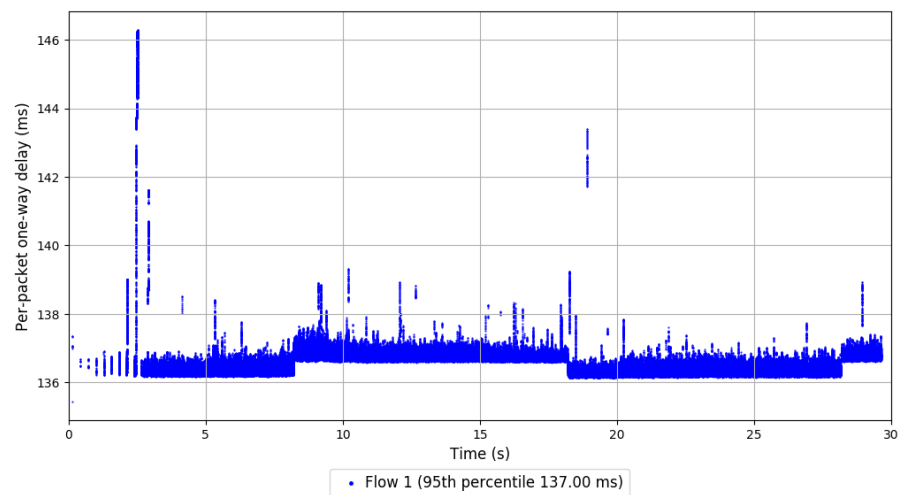
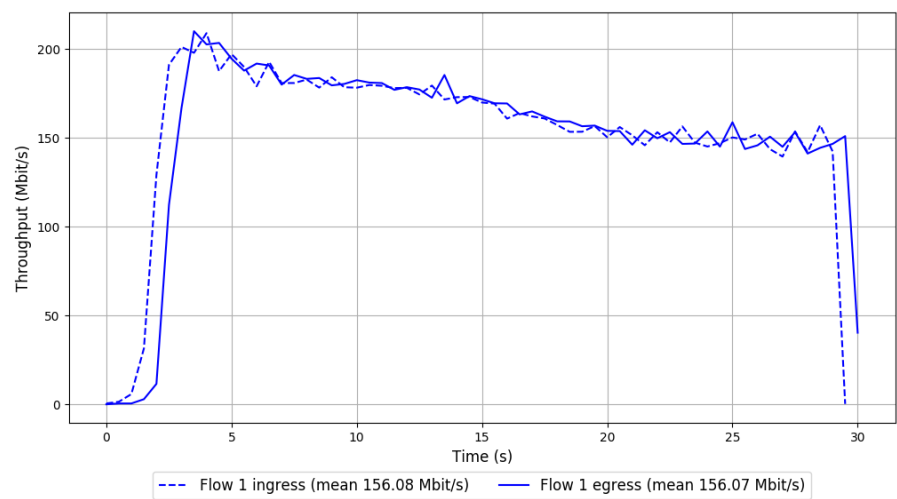
-- Flow 1:

Average throughput: 156.07 Mbit/s

95th percentile per-packet one-way delay: 136.997 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

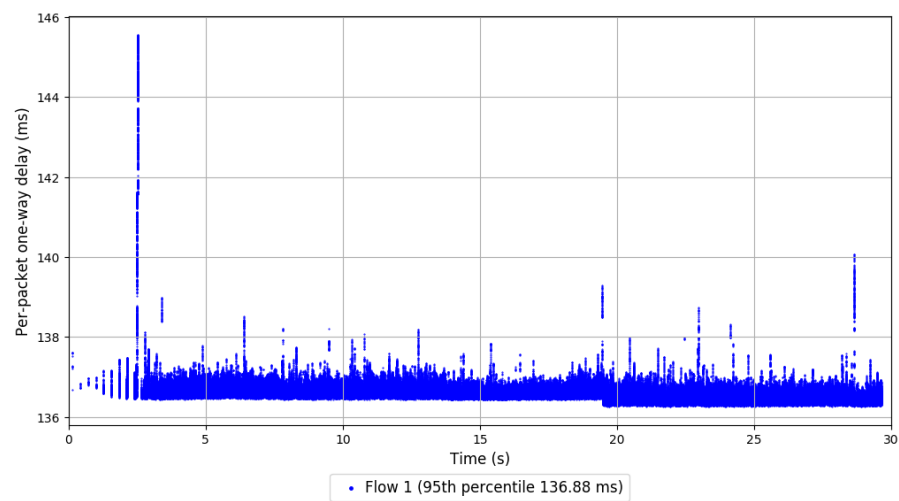
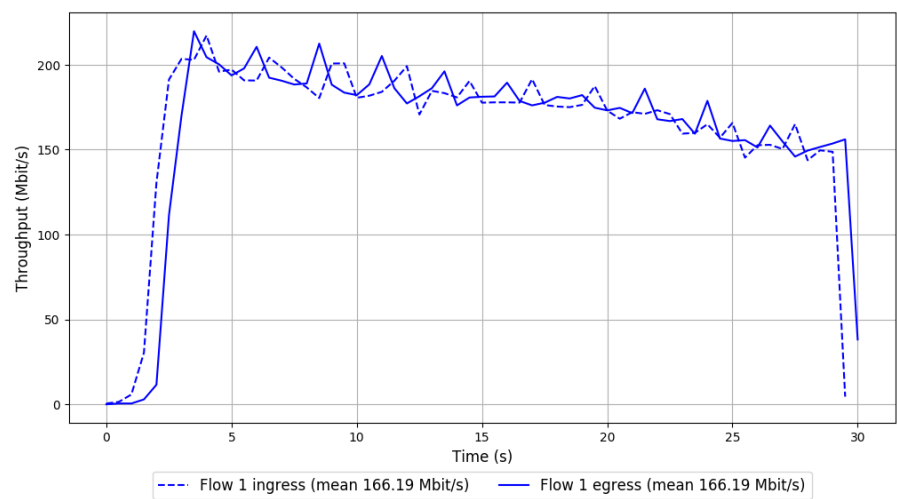


Run 3: Statistics of Indigo

Start at: 2018-08-11 01:30:49
End at: 2018-08-11 01:31:19
Local clock offset: 0.223 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 166.19 Mbit/s
95th percentile per-packet one-way delay: 136.880 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 166.19 Mbit/s
95th percentile per-packet one-way delay: 136.880 ms
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-08-11 01:54:24

End at: 2018-08-11 01:54:54

Local clock offset: 0.427 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 167.52 Mbit/s

95th percentile per-packet one-way delay: 136.876 ms

Loss rate: 0.00%

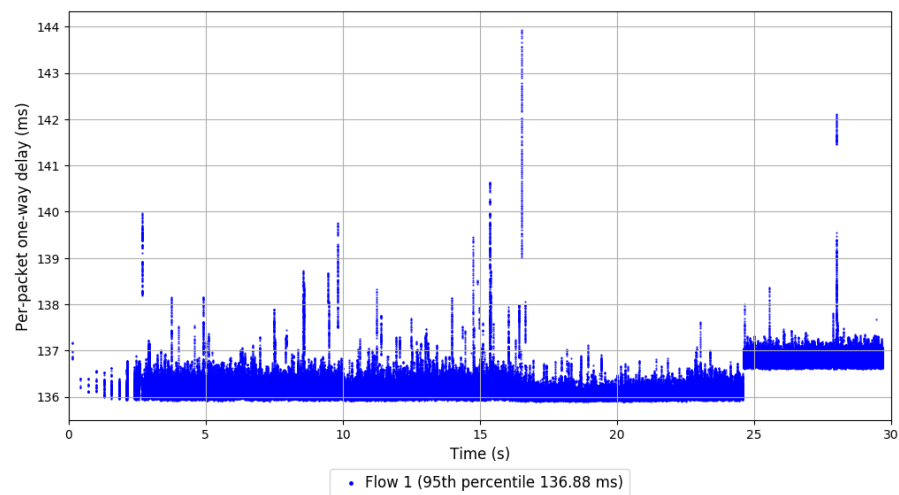
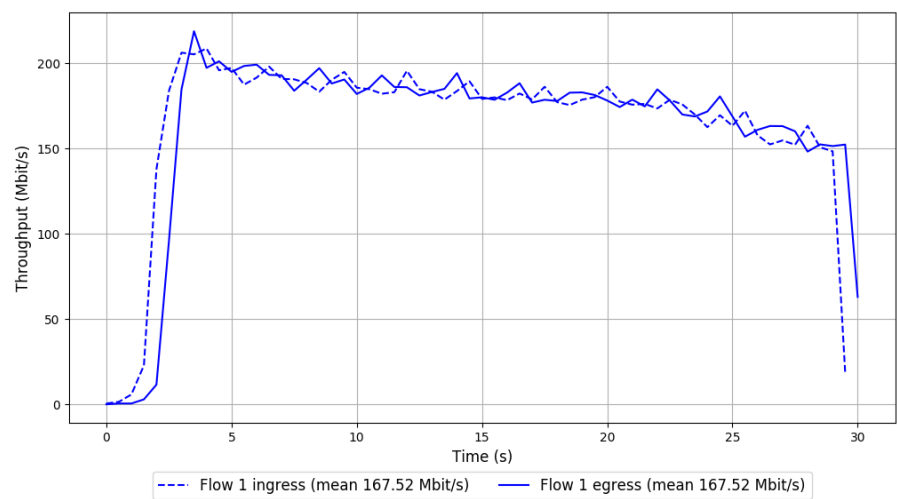
-- Flow 1:

Average throughput: 167.52 Mbit/s

95th percentile per-packet one-way delay: 136.876 ms

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

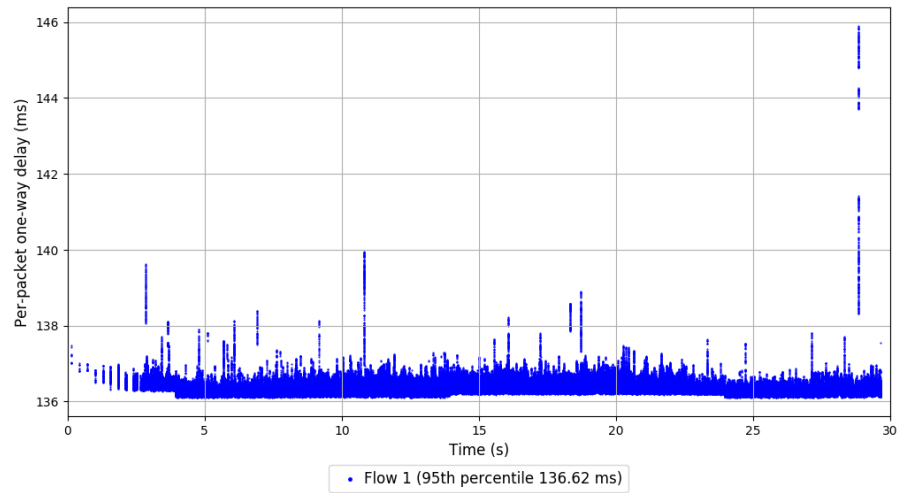
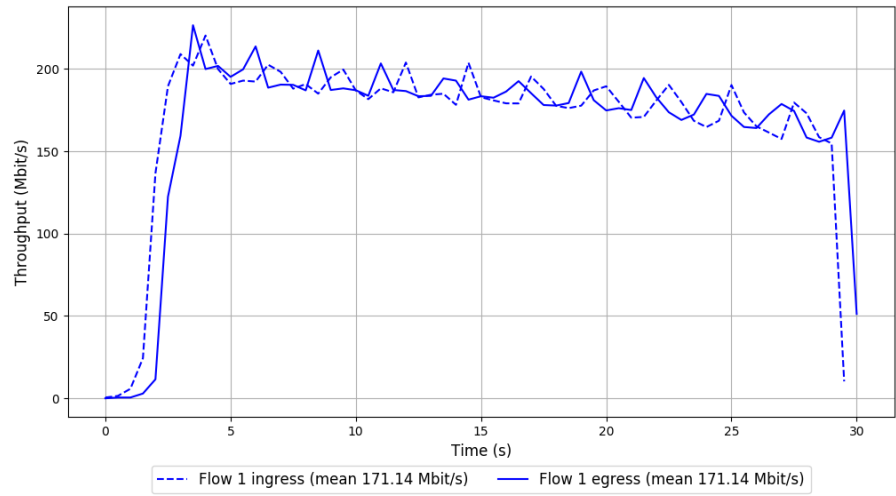


Run 5: Statistics of Indigo

Start at: 2018-08-11 02:17:55
End at: 2018-08-11 02:18:25
Local clock offset: 0.159 ms
Remote clock offset: -0.466 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 171.14 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 171.14 Mbit/s
95th percentile per-packet one-way delay: 136.624 ms
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

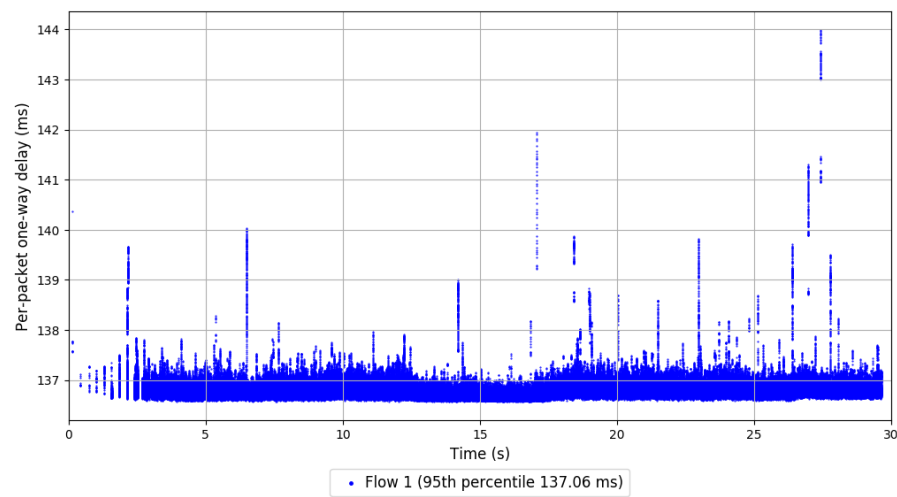
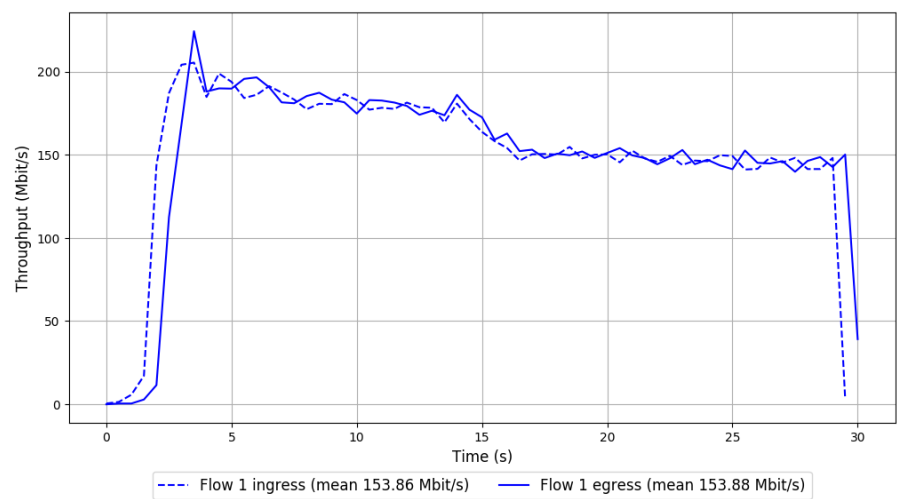


Run 6: Statistics of Indigo

Start at: 2018-08-11 02:41:22
End at: 2018-08-11 02:41:52
Local clock offset: 0.088 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 153.88 Mbit/s
95th percentile per-packet one-way delay: 137.065 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 153.88 Mbit/s
95th percentile per-packet one-way delay: 137.065 ms
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-08-11 03:04:47

End at: 2018-08-11 03:05:17

Local clock offset: 0.527 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 173.82 Mbit/s

95th percentile per-packet one-way delay: 136.686 ms

Loss rate: 0.00%

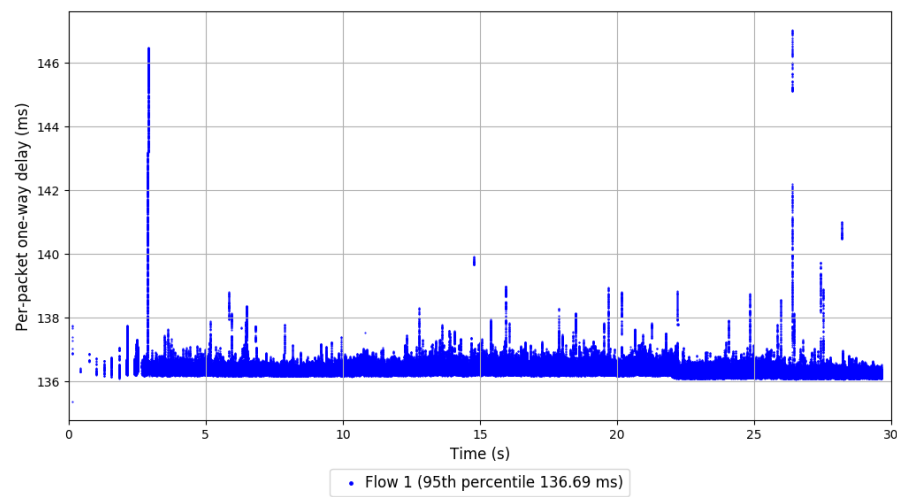
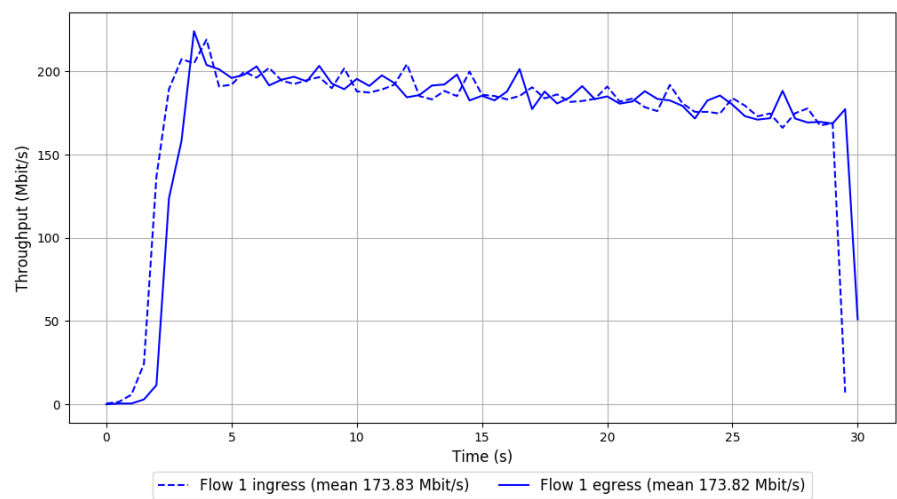
-- Flow 1:

Average throughput: 173.82 Mbit/s

95th percentile per-packet one-way delay: 136.686 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-08-11 03:28:24

End at: 2018-08-11 03:28:54

Local clock offset: 0.358 ms

Remote clock offset: -0.504 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.51 Mbit/s

95th percentile per-packet one-way delay: 135.940 ms

Loss rate: 0.00%

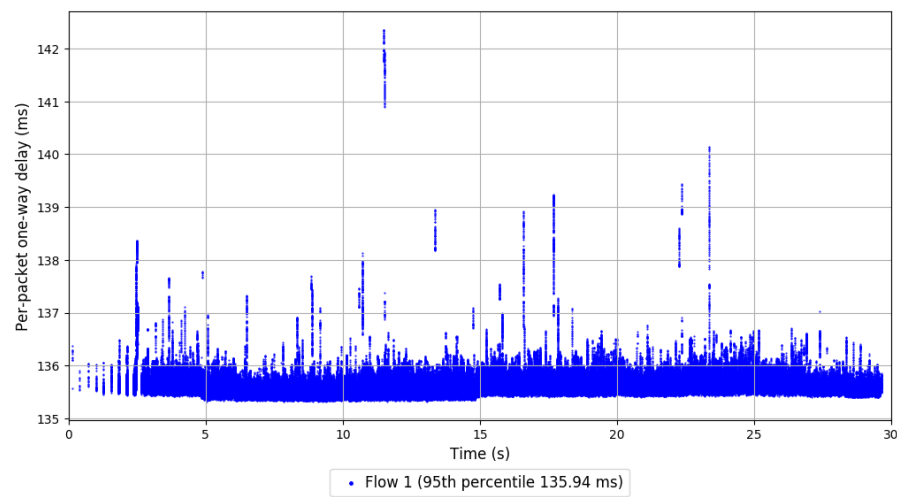
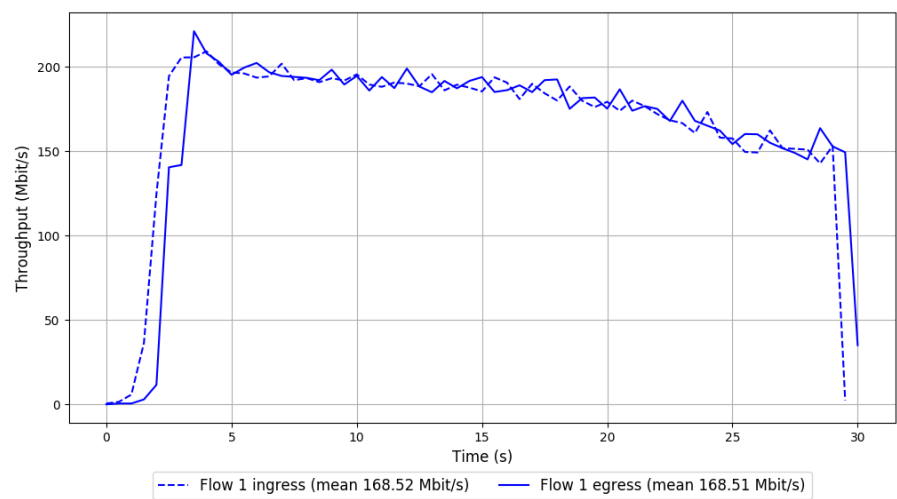
-- Flow 1:

Average throughput: 168.51 Mbit/s

95th percentile per-packet one-way delay: 135.940 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-08-11 03:51:33

End at: 2018-08-11 03:52:03

Local clock offset: 0.304 ms

Remote clock offset: -0.468 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 172.93 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 0.00%

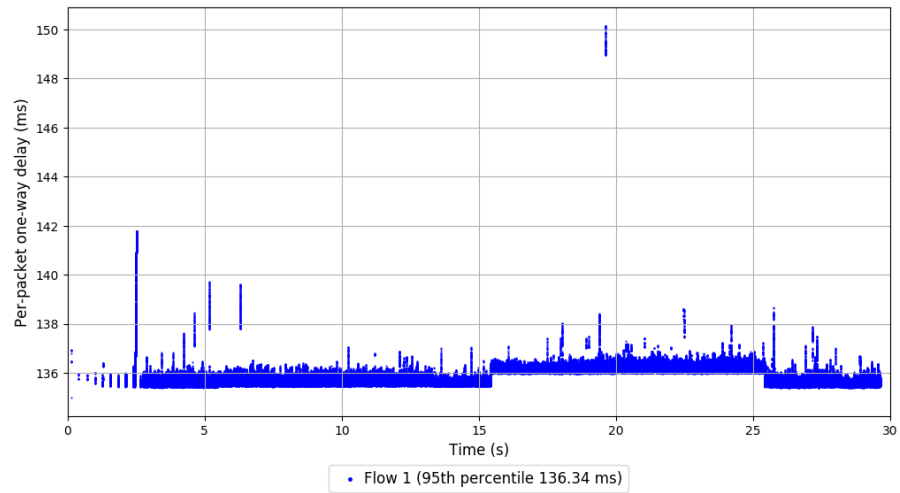
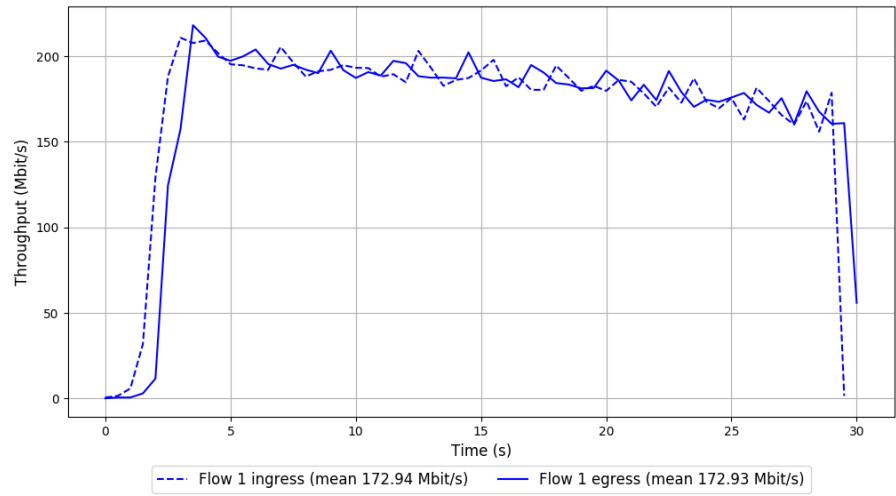
-- Flow 1:

Average throughput: 172.93 Mbit/s

95th percentile per-packet one-way delay: 136.344 ms

Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-08-11 04:15:23

End at: 2018-08-11 04:15:53

Local clock offset: 0.721 ms

Remote clock offset: 0.195 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 171.43 Mbit/s

95th percentile per-packet one-way delay: 136.536 ms

Loss rate: 0.01%

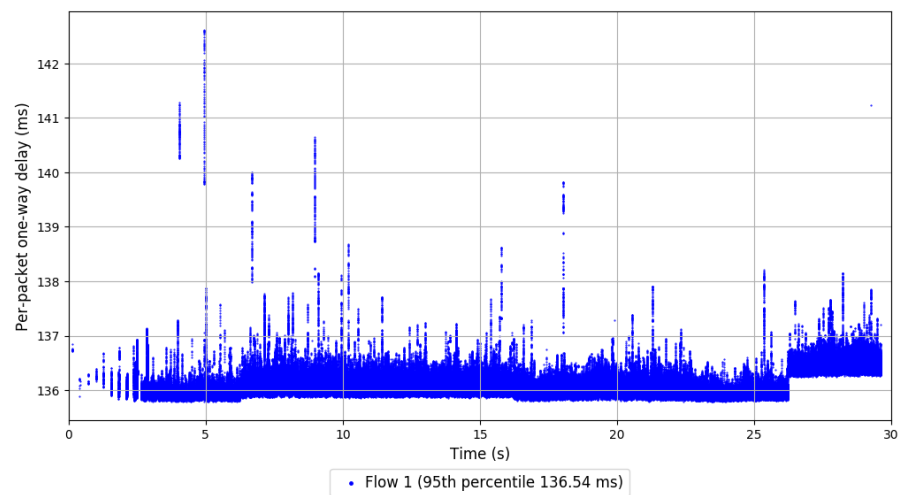
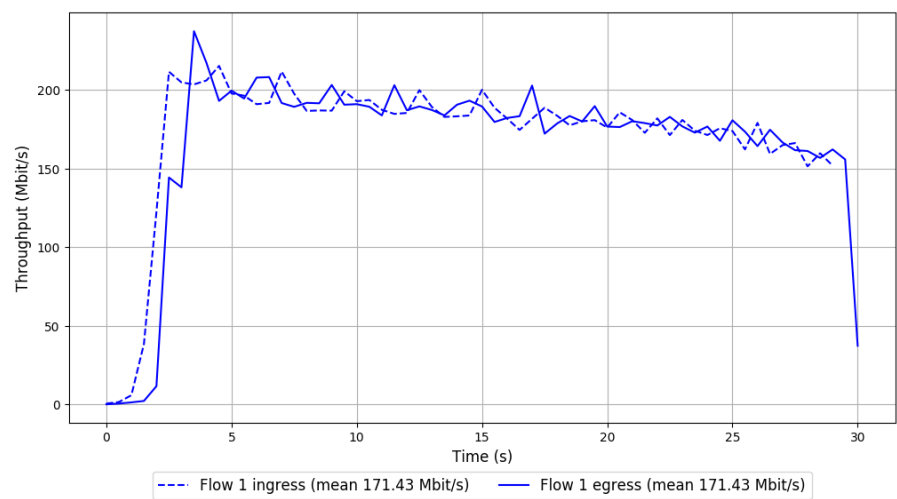
-- Flow 1:

Average throughput: 171.43 Mbit/s

95th percentile per-packet one-way delay: 136.536 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

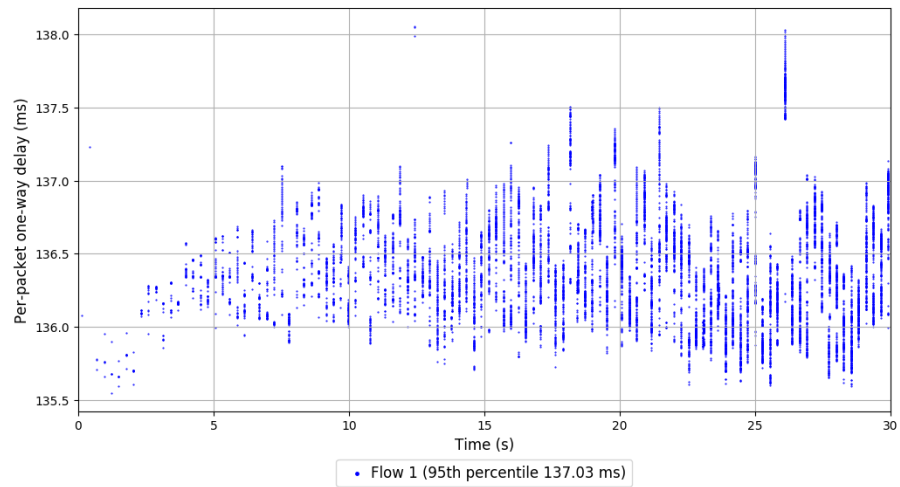
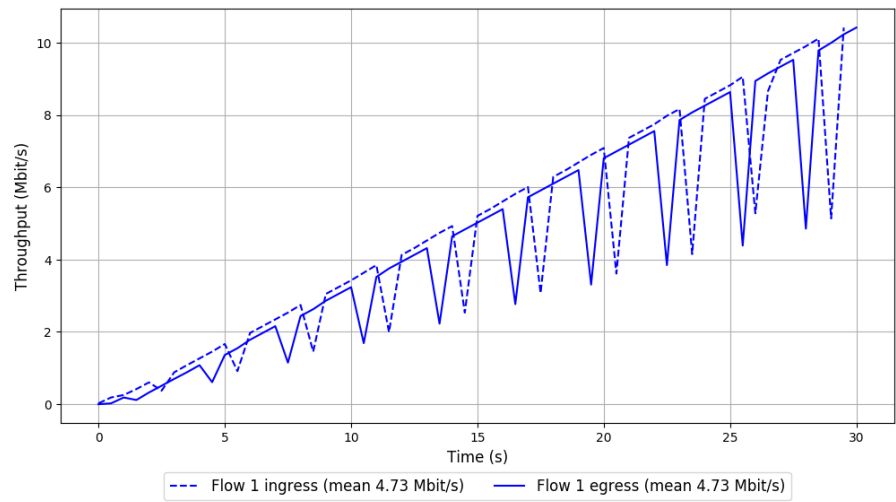


```
Run 1: Statistics of LEDBAT

Start at: 2018-08-11 00:40:27
End at: 2018-08-11 00:40:57
Local clock offset: 0.802 ms
Remote clock offset: -0.247 ms

# Below is generated by plot.py at 2018-08-11 05:52:03
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.73 Mbit/s
95th percentile per-packet one-way delay: 137.031 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.73 Mbit/s
95th percentile per-packet one-way delay: 137.031 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

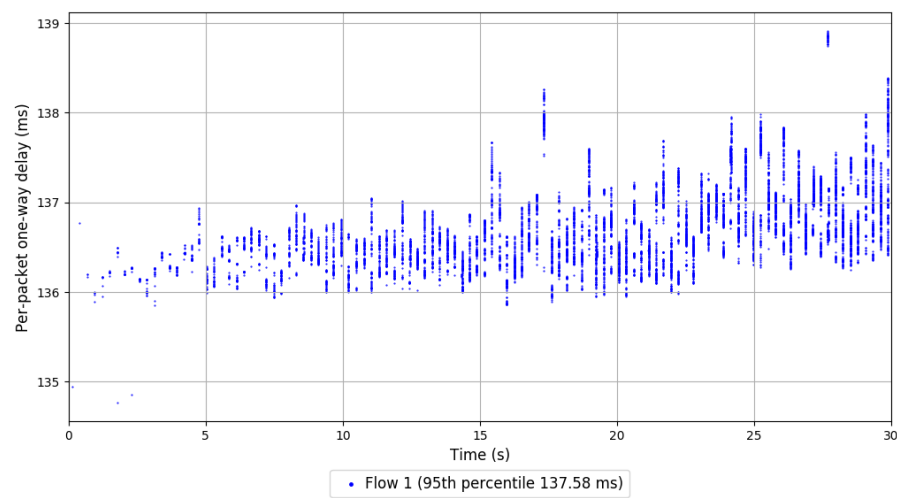
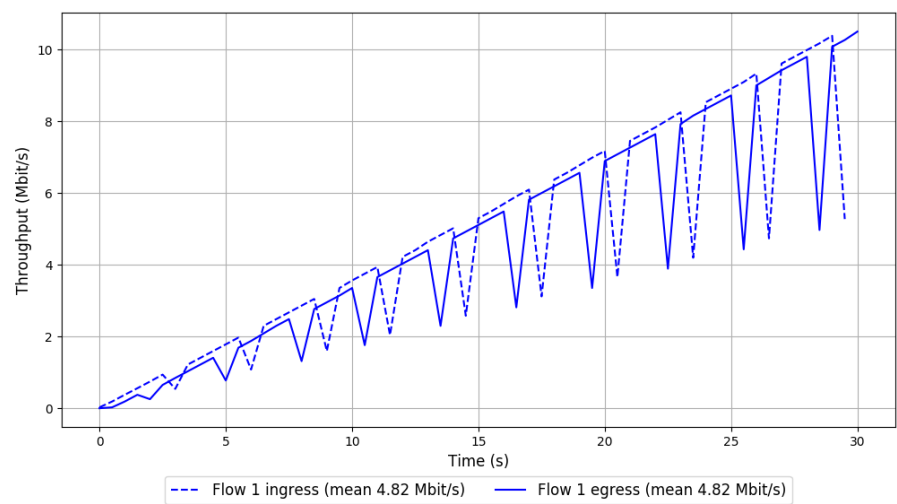


Run 2: Statistics of LEDBAT

Start at: 2018-08-11 01:03:46
End at: 2018-08-11 01:04:16
Local clock offset: -0.042 ms
Remote clock offset: -0.652 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 137.583 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 137.583 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

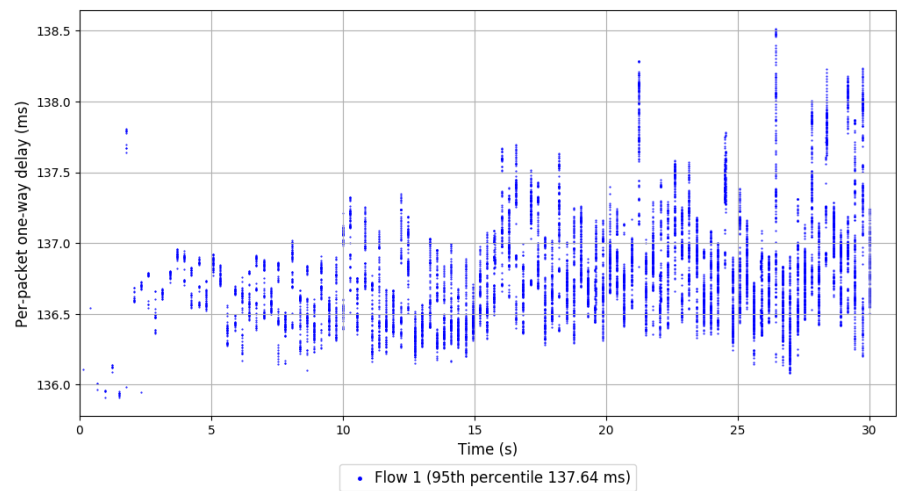
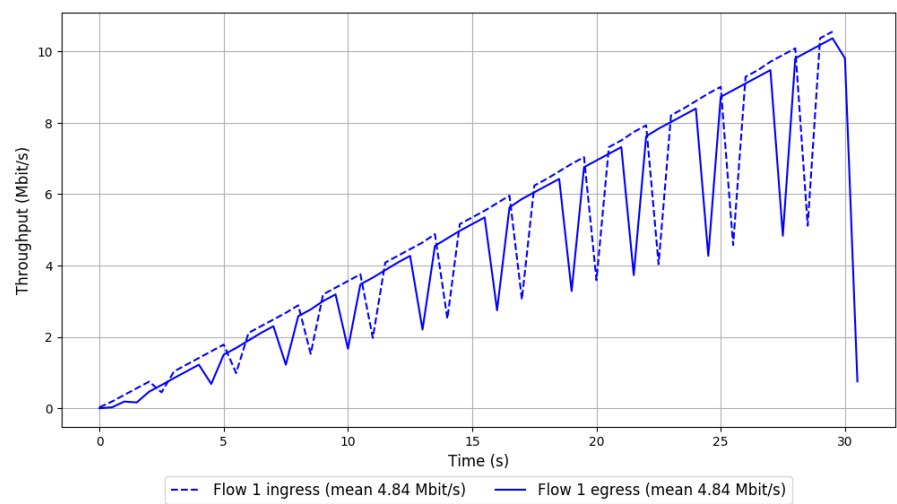


Run 3: Statistics of LEDBAT

Start at: 2018-08-11 01:27:04
End at: 2018-08-11 01:27:34
Local clock offset: 0.141 ms
Remote clock offset: -0.684 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.643 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.84 Mbit/s
95th percentile per-packet one-way delay: 137.643 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

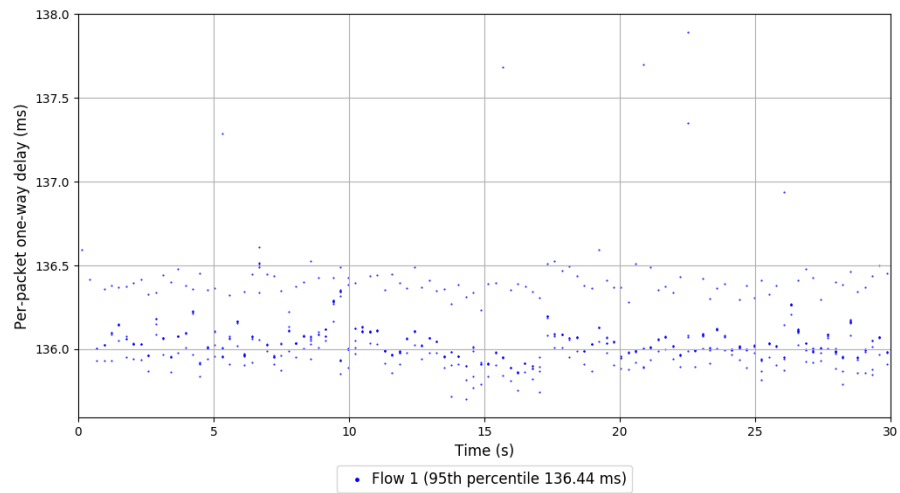
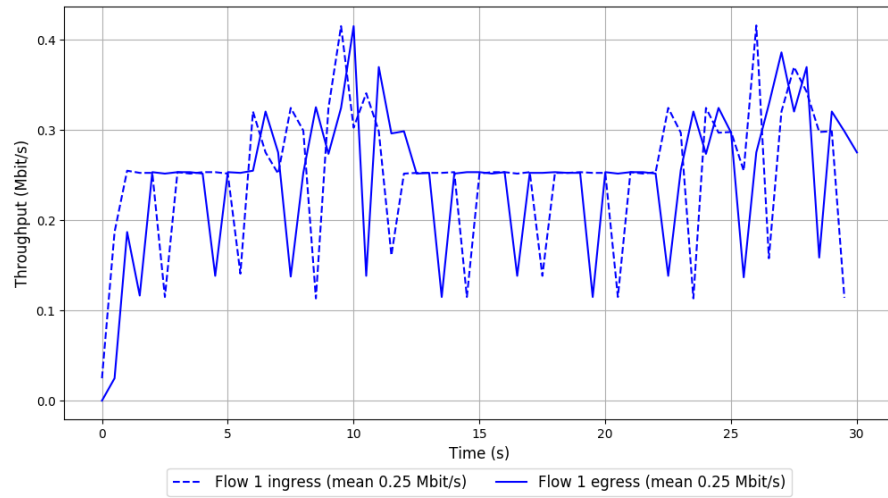


Run 4: Statistics of LEDBAT

Start at: 2018-08-11 01:50:39
End at: 2018-08-11 01:51:09
Local clock offset: 0.087 ms
Remote clock offset: -0.538 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.25 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2018-08-11 02:14:13

End at: 2018-08-11 02:14:43

Local clock offset: 0.189 ms

Remote clock offset: 0.194 ms

Below is generated by plot.py at 2018-08-11 05:52:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 138.036 ms

Loss rate: 0.00%

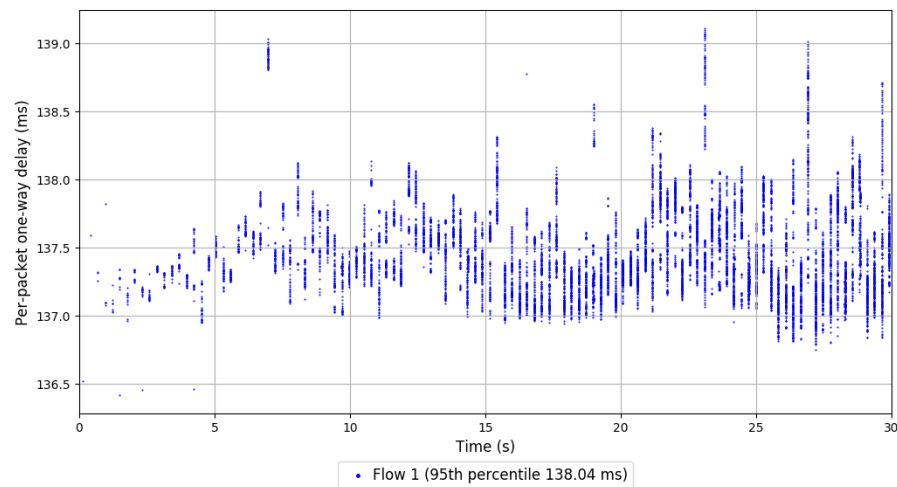
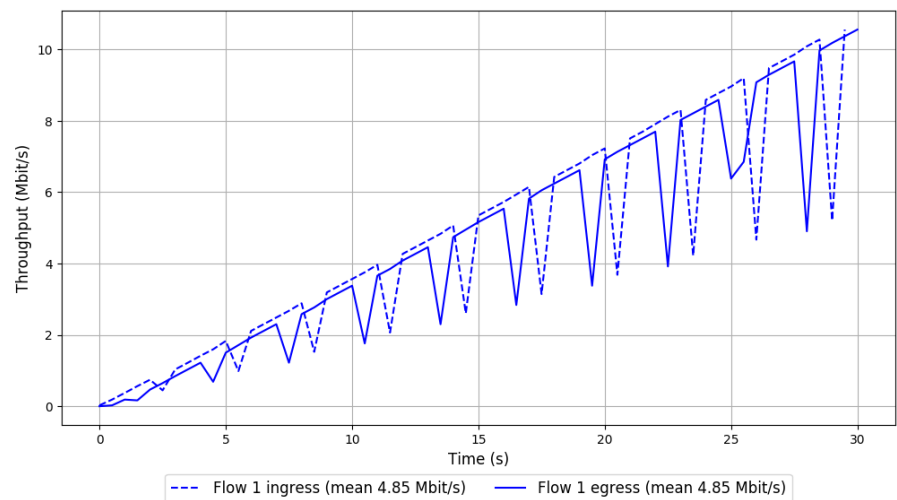
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 138.036 ms

Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

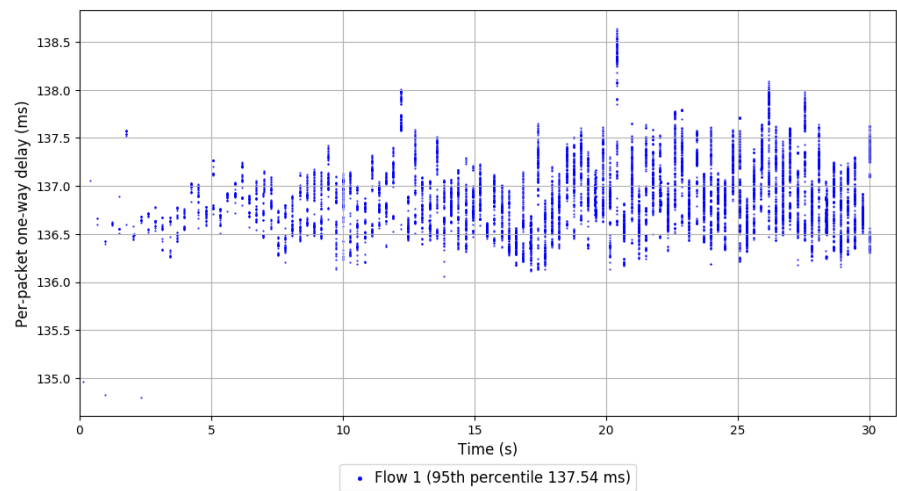
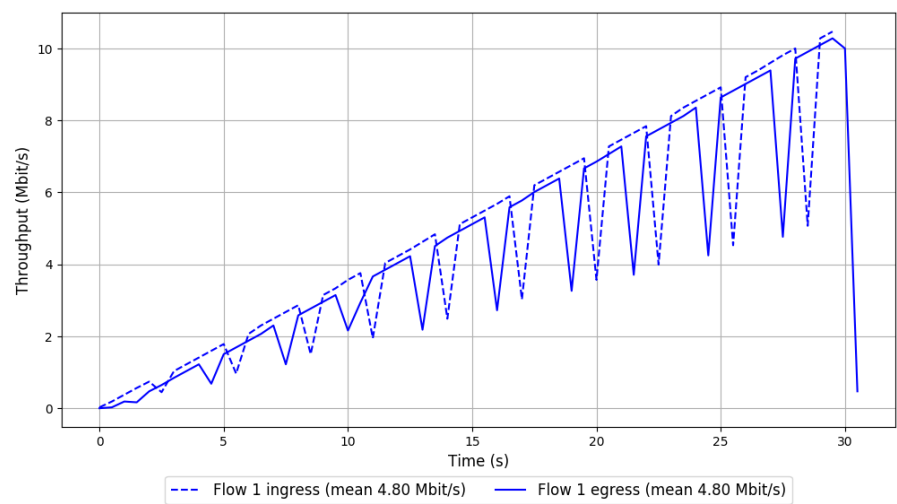


Run 6: Statistics of LEDBAT

Start at: 2018-08-11 02:37:32
End at: 2018-08-11 02:38:02
Local clock offset: 0.255 ms
Remote clock offset: -0.458 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 137.539 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 137.539 ms
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

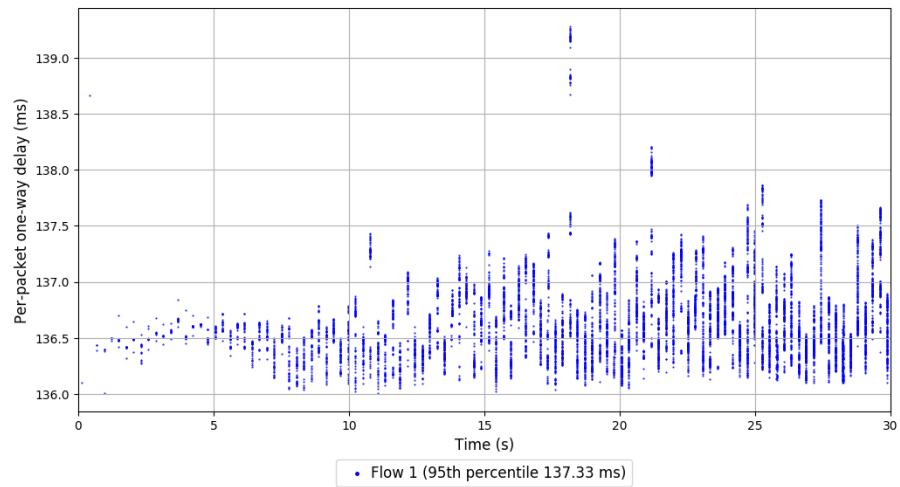
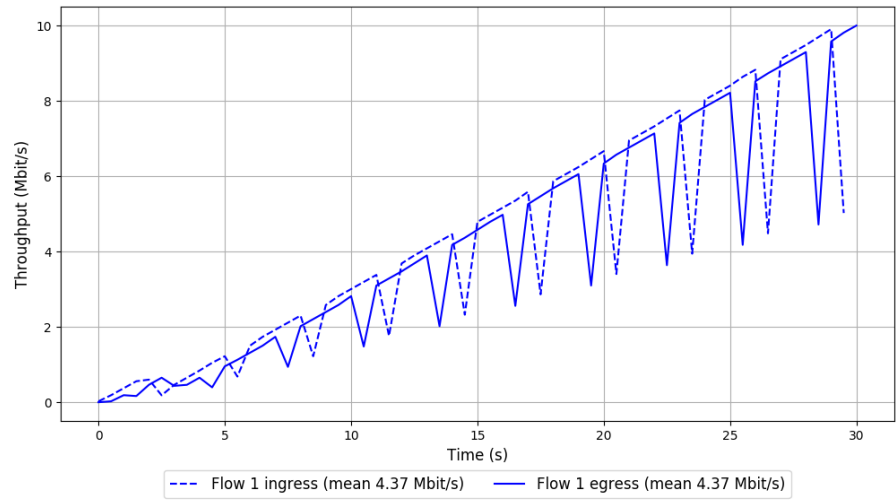


Run 7: Statistics of LEDBAT

Start at: 2018-08-11 03:00:58
End at: 2018-08-11 03:01:28
Local clock offset: 0.202 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 137.328 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.37 Mbit/s
95th percentile per-packet one-way delay: 137.328 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link

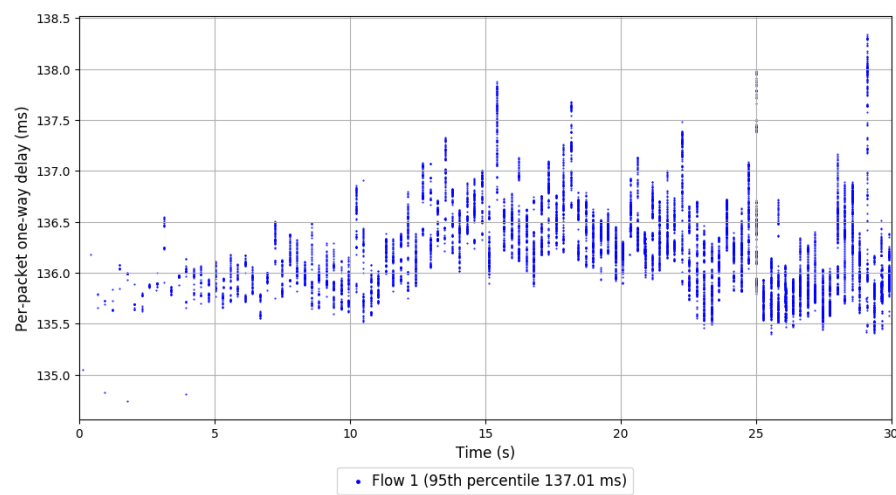
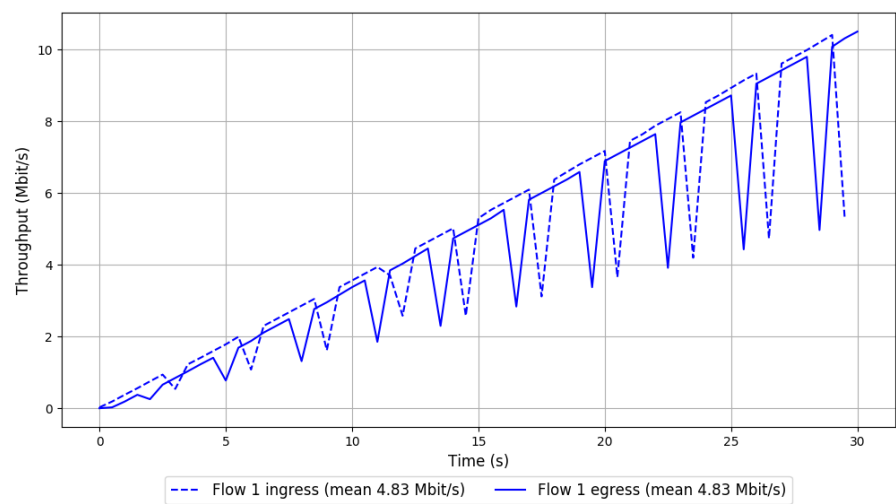


Run 8: Statistics of LEDBAT

Start at: 2018-08-11 03:24:37
End at: 2018-08-11 03:25:07
Local clock offset: 0.411 ms
Remote clock offset: -0.482 ms

Below is generated by plot.py at 2018-08-11 05:52:03
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 137.007 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 137.007 ms
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-08-11 03:47:54

End at: 2018-08-11 03:48:24

Local clock offset: 0.161 ms

Remote clock offset: 0.228 ms

Below is generated by plot.py at 2018-08-11 05:52:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.781 ms

Loss rate: 0.00%

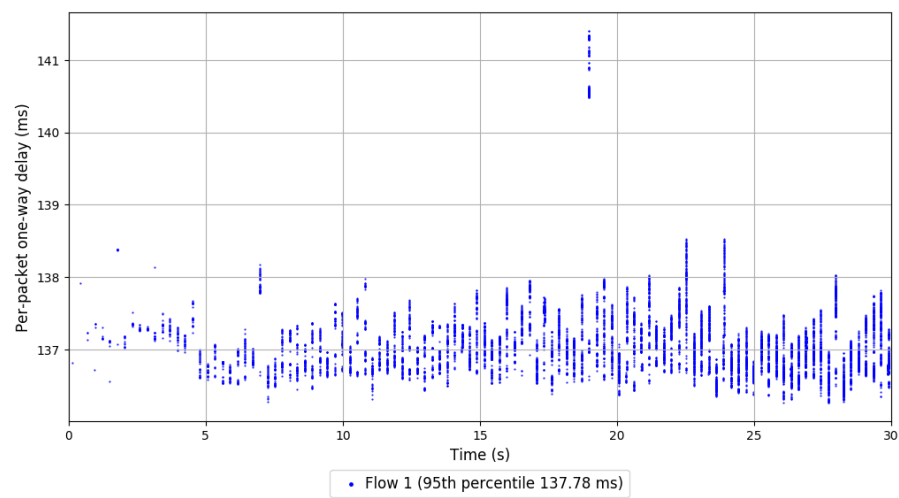
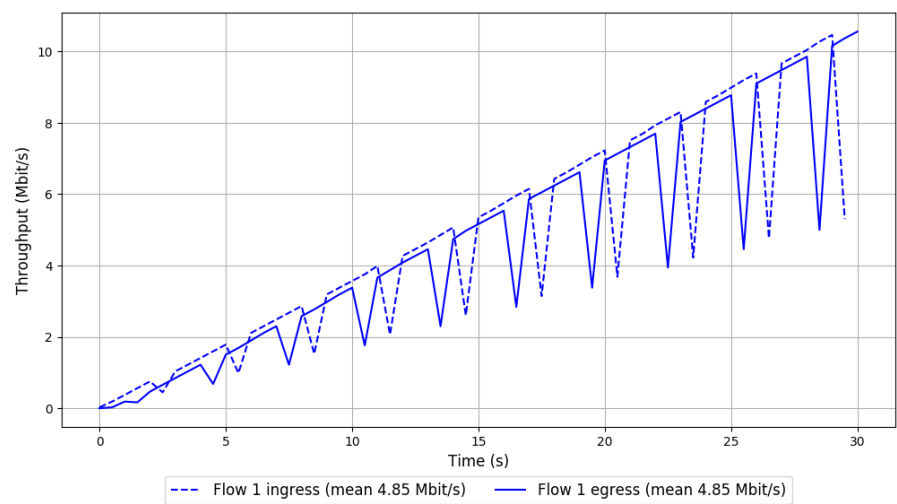
-- Flow 1:

Average throughput: 4.85 Mbit/s

95th percentile per-packet one-way delay: 137.781 ms

Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-08-11 04:11:44

End at: 2018-08-11 04:12:14

Local clock offset: 0.261 ms

Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-08-11 05:52:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.00%

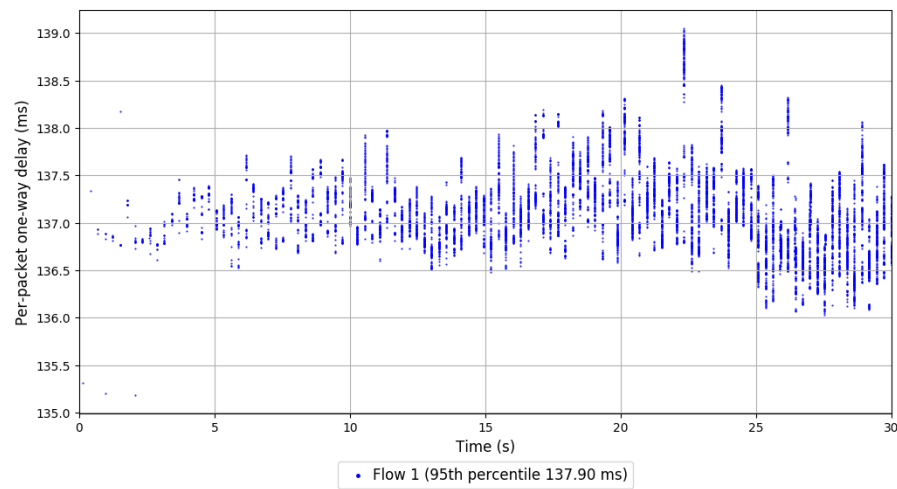
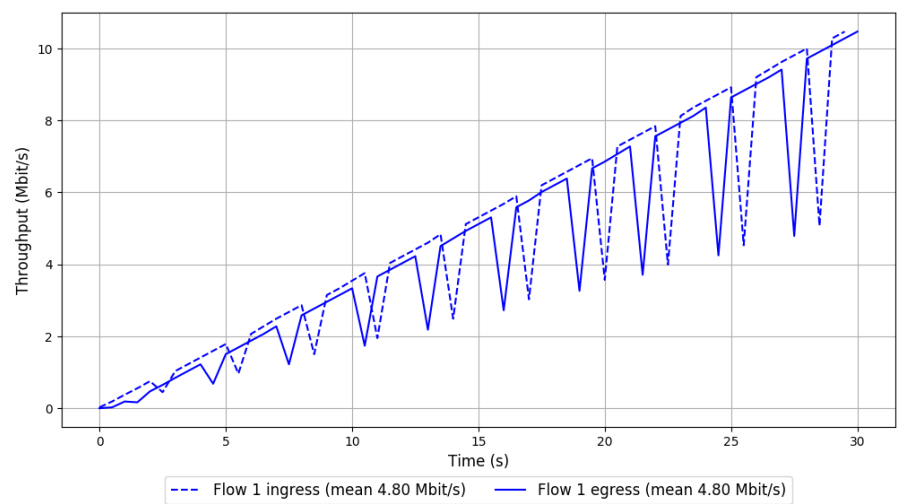
-- Flow 1:

Average throughput: 4.80 Mbit/s

95th percentile per-packet one-way delay: 137.901 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-08-11 00:56:53

End at: 2018-08-11 00:57:23

Local clock offset: 0.182 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-08-11 05:53:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 535.46 Mbit/s

95th percentile per-packet one-way delay: 161.081 ms

Loss rate: 0.87%

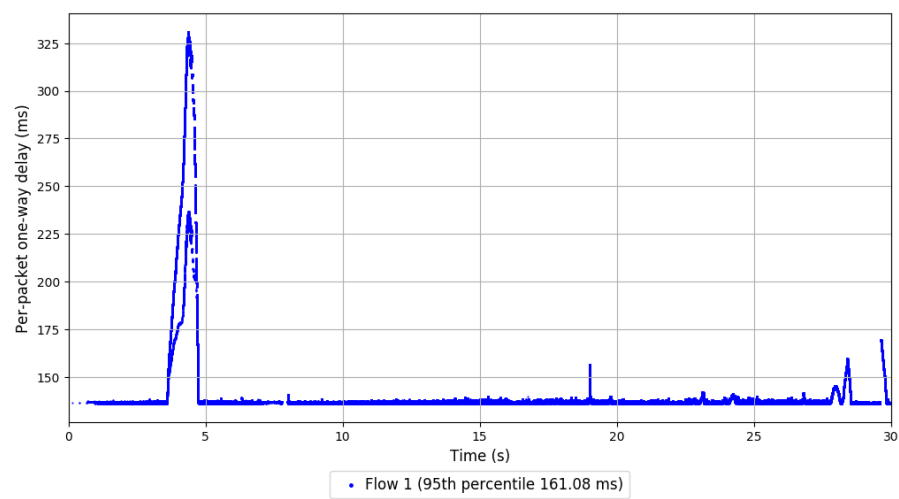
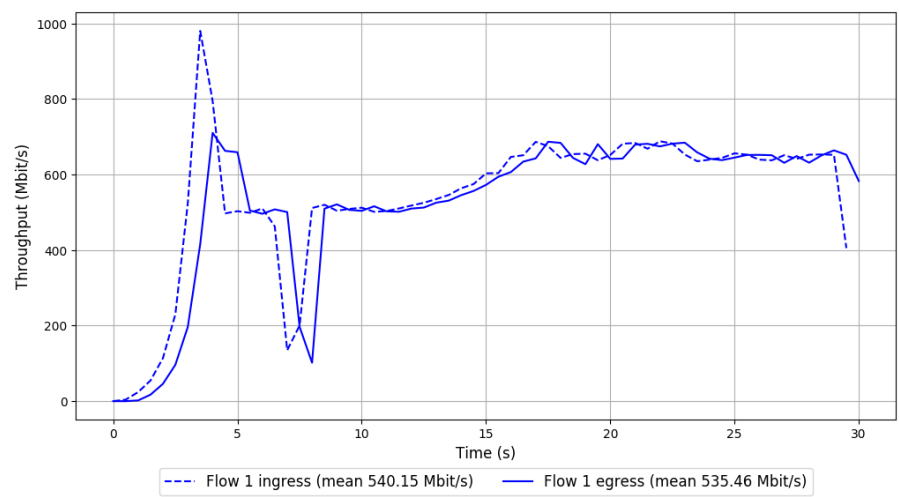
-- Flow 1:

Average throughput: 535.46 Mbit/s

95th percentile per-packet one-way delay: 161.081 ms

Loss rate: 0.87%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-11 01:19:58

End at: 2018-08-11 01:20:28

Local clock offset: 0.116 ms

Remote clock offset: -0.359 ms

Below is generated by plot.py at 2018-08-11 05:54:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 538.95 Mbit/s

95th percentile per-packet one-way delay: 213.046 ms

Loss rate: 2.74%

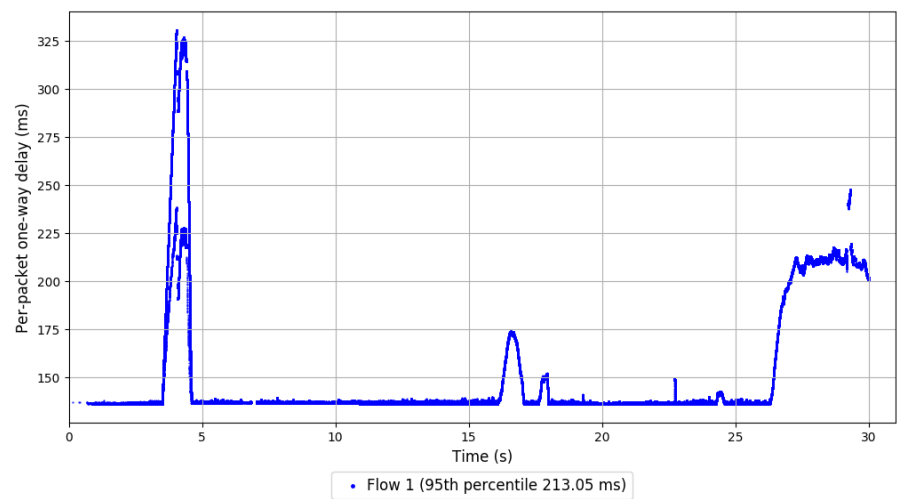
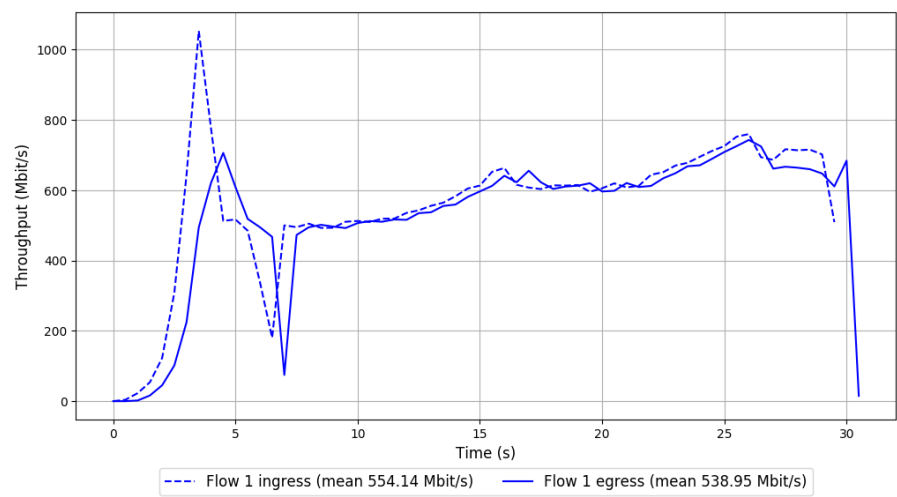
-- Flow 1:

Average throughput: 538.95 Mbit/s

95th percentile per-packet one-way delay: 213.046 ms

Loss rate: 2.74%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-11 01:43:24

End at: 2018-08-11 01:43:54

Local clock offset: 0.177 ms

Remote clock offset: -0.557 ms

Below is generated by plot.py at 2018-08-11 05:55:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 562.66 Mbit/s

95th percentile per-packet one-way delay: 174.929 ms

Loss rate: 1.29%

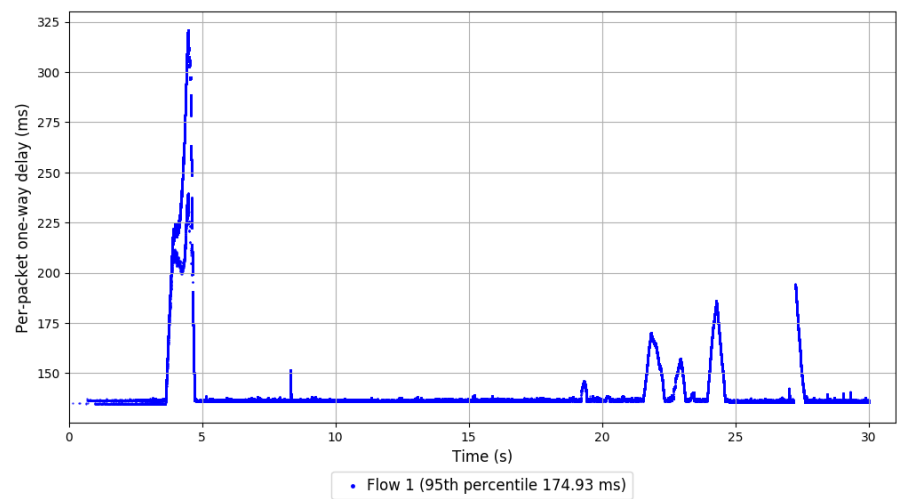
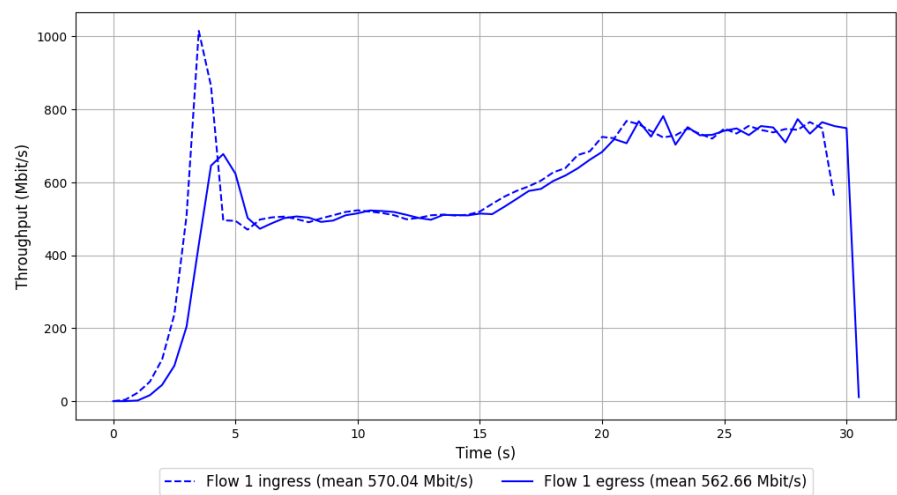
-- Flow 1:

Average throughput: 562.66 Mbit/s

95th percentile per-packet one-way delay: 174.929 ms

Loss rate: 1.29%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-11 02:07:10

End at: 2018-08-11 02:07:40

Local clock offset: 0.209 ms

Remote clock offset: 0.179 ms

Below is generated by plot.py at 2018-08-11 05:56:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 585.69 Mbit/s

95th percentile per-packet one-way delay: 285.568 ms

Loss rate: 7.18%

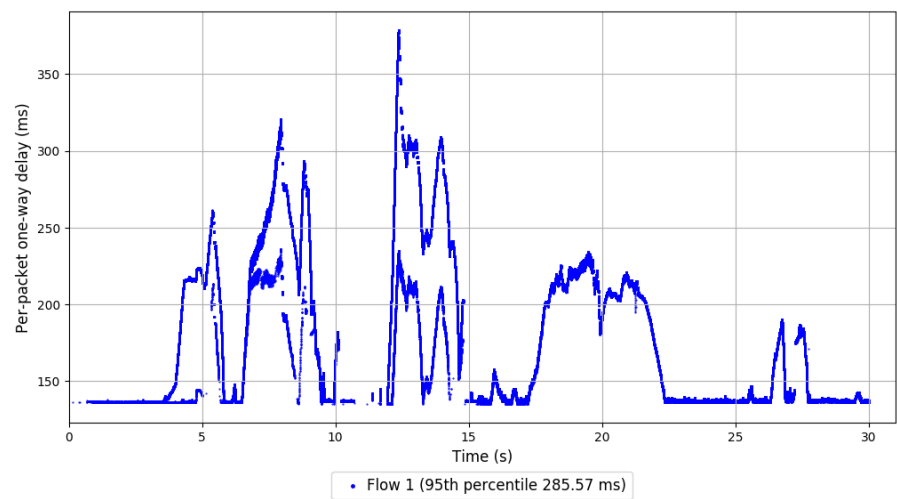
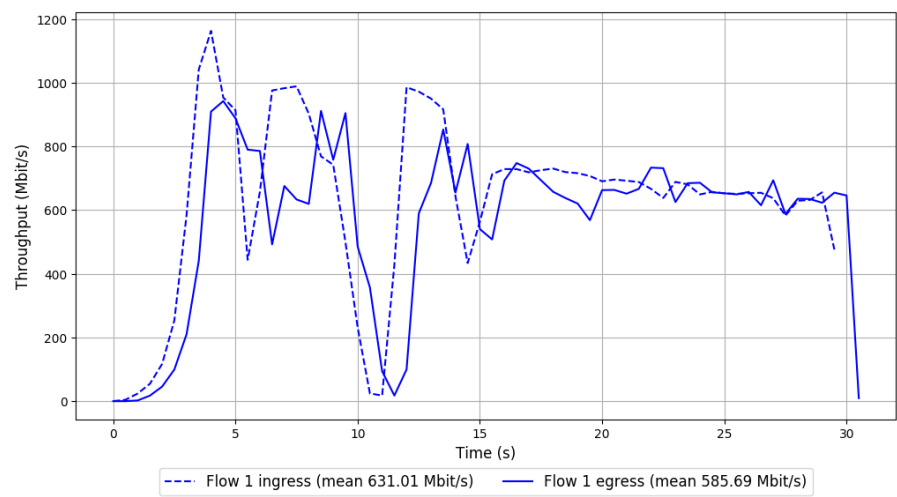
-- Flow 1:

Average throughput: 585.69 Mbit/s

95th percentile per-packet one-way delay: 285.568 ms

Loss rate: 7.18%

Run 4: Report of PCC-Allegro — Data Link

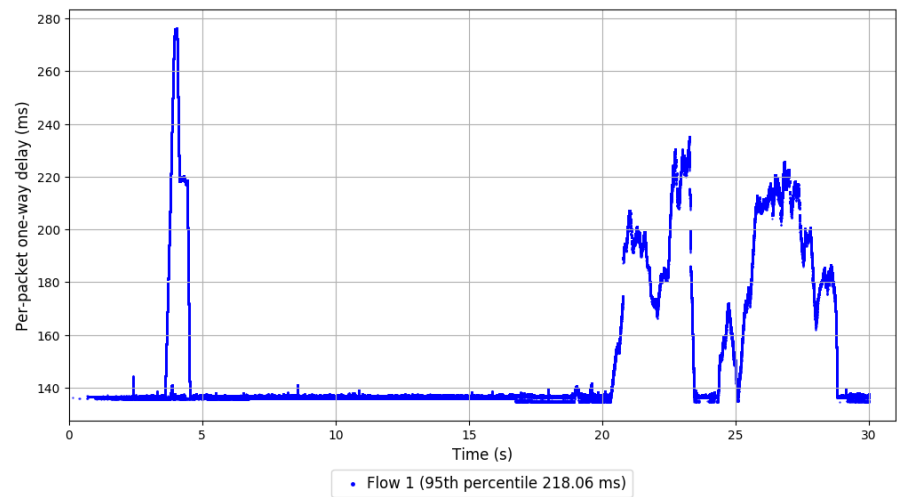
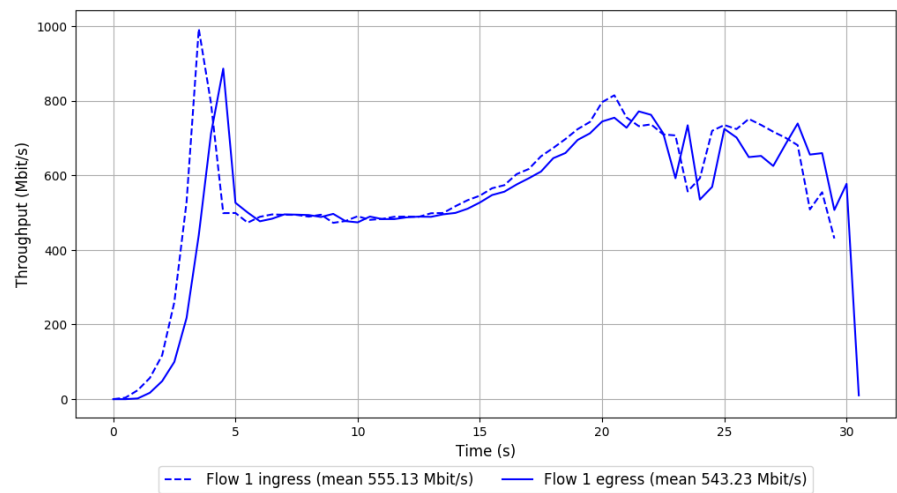


Run 5: Statistics of PCC-Allegro

Start at: 2018-08-11 02:30:31
End at: 2018-08-11 02:31:01
Local clock offset: 0.327 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-08-11 05:58:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 543.23 Mbit/s
95th percentile per-packet one-way delay: 218.056 ms
Loss rate: 2.14%
-- Flow 1:
Average throughput: 543.23 Mbit/s
95th percentile per-packet one-way delay: 218.056 ms
Loss rate: 2.14%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-08-11 02:53:50

End at: 2018-08-11 02:54:20

Local clock offset: 0.59 ms

Remote clock offset: 0.229 ms

Below is generated by plot.py at 2018-08-11 05:59:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 487.37 Mbit/s

95th percentile per-packet one-way delay: 213.897 ms

Loss rate: 1.52%

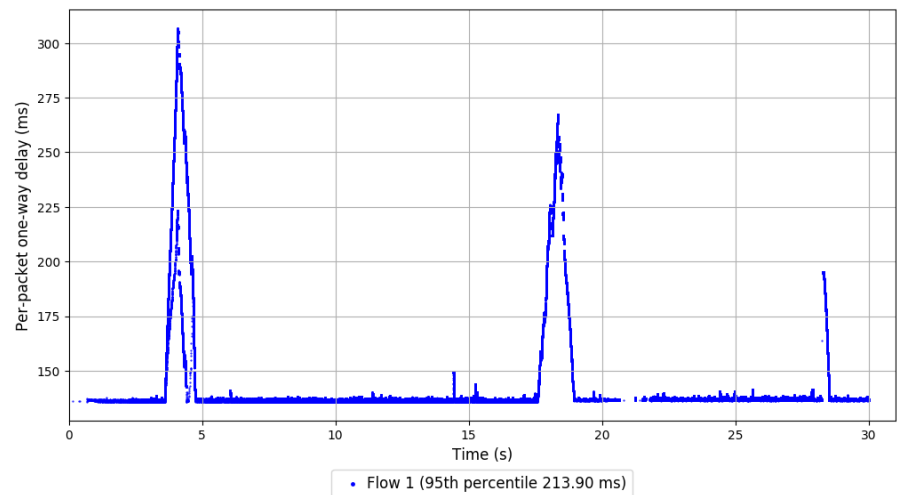
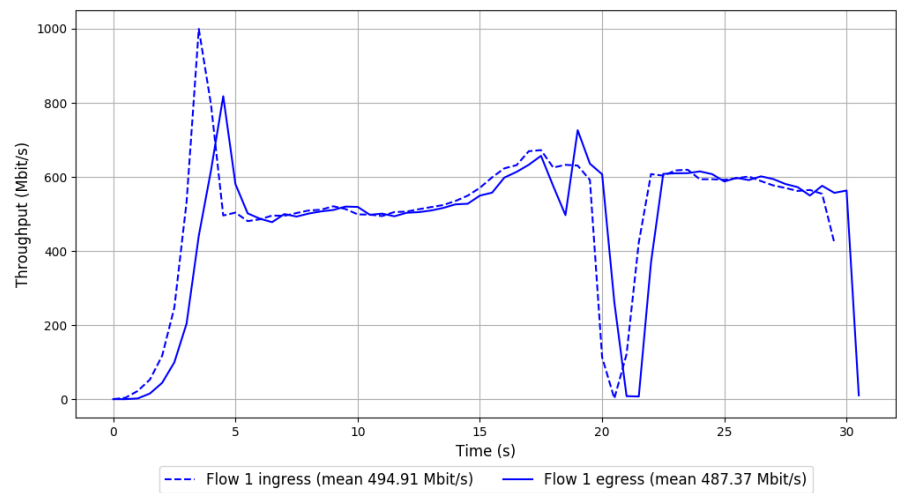
-- Flow 1:

Average throughput: 487.37 Mbit/s

95th percentile per-packet one-way delay: 213.897 ms

Loss rate: 1.52%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-08-11 03:17:24

End at: 2018-08-11 03:17:54

Local clock offset: 0.567 ms

Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-08-11 06:02:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 519.97 Mbit/s

95th percentile per-packet one-way delay: 216.001 ms

Loss rate: 1.73%

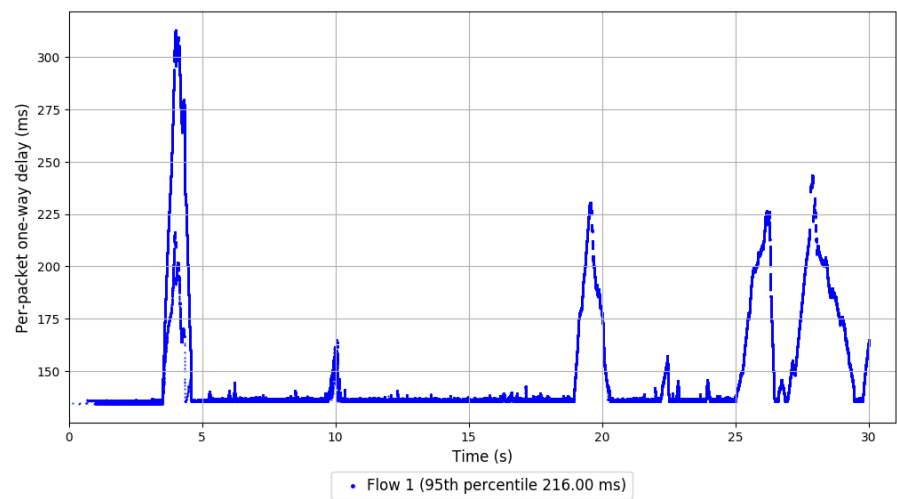
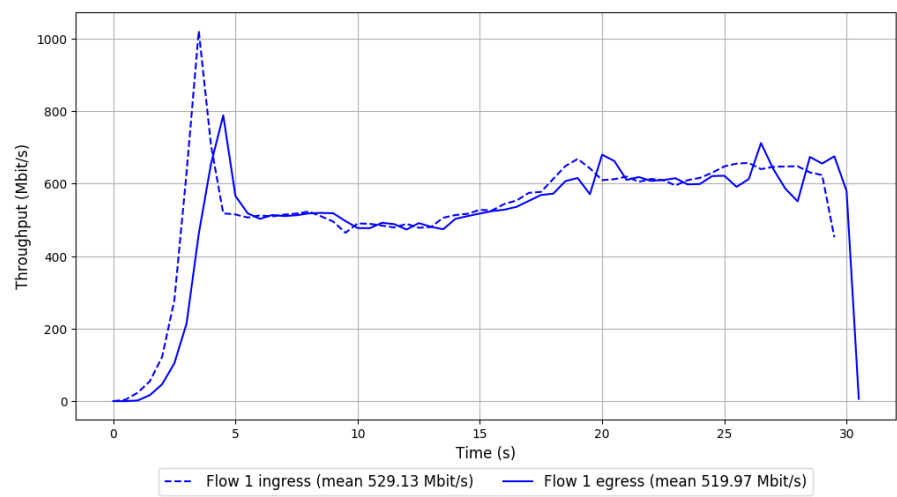
-- Flow 1:

Average throughput: 519.97 Mbit/s

95th percentile per-packet one-way delay: 216.001 ms

Loss rate: 1.73%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-11 03:41:01

End at: 2018-08-11 03:41:31

Local clock offset: 0.372 ms

Remote clock offset: 0.168 ms

Below is generated by plot.py at 2018-08-11 06:02:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 547.06 Mbit/s

95th percentile per-packet one-way delay: 162.464 ms

Loss rate: 0.71%

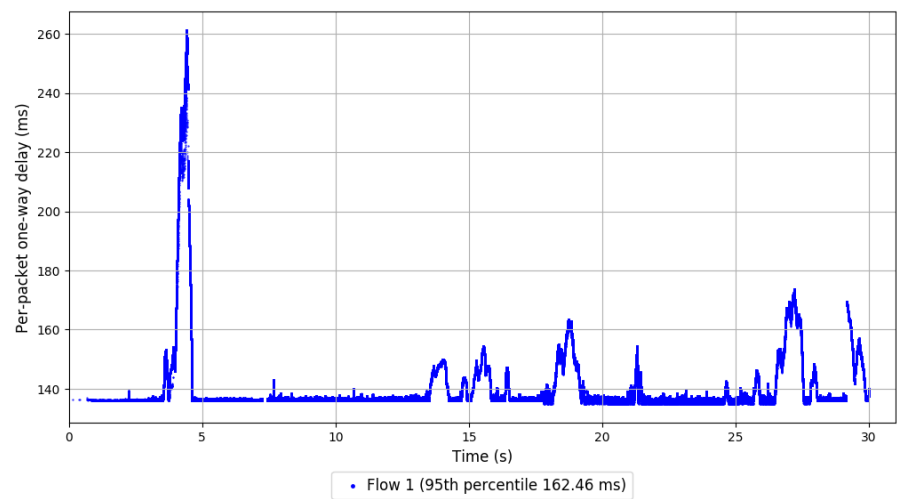
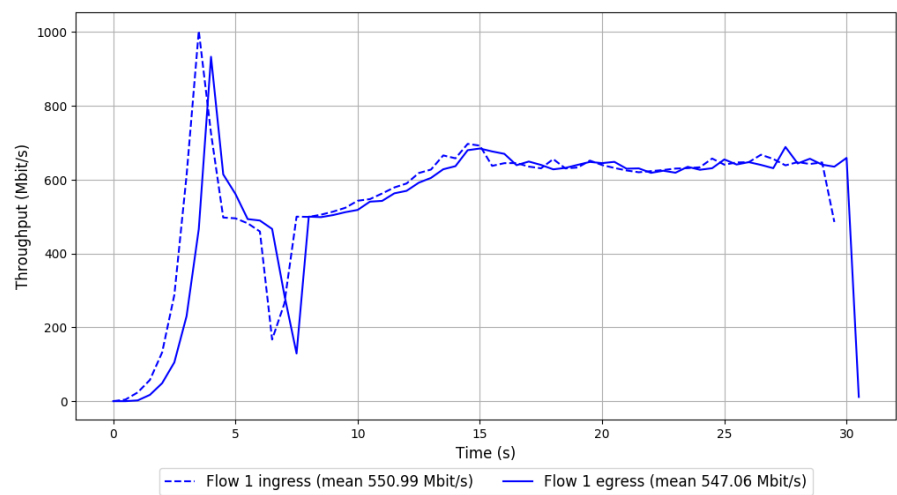
-- Flow 1:

Average throughput: 547.06 Mbit/s

95th percentile per-packet one-way delay: 162.464 ms

Loss rate: 0.71%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-11 04:04:35

End at: 2018-08-11 04:05:05

Local clock offset: 0.347 ms

Remote clock offset: -0.458 ms

Below is generated by plot.py at 2018-08-11 06:03:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 524.79 Mbit/s

95th percentile per-packet one-way delay: 170.828 ms

Loss rate: 1.00%

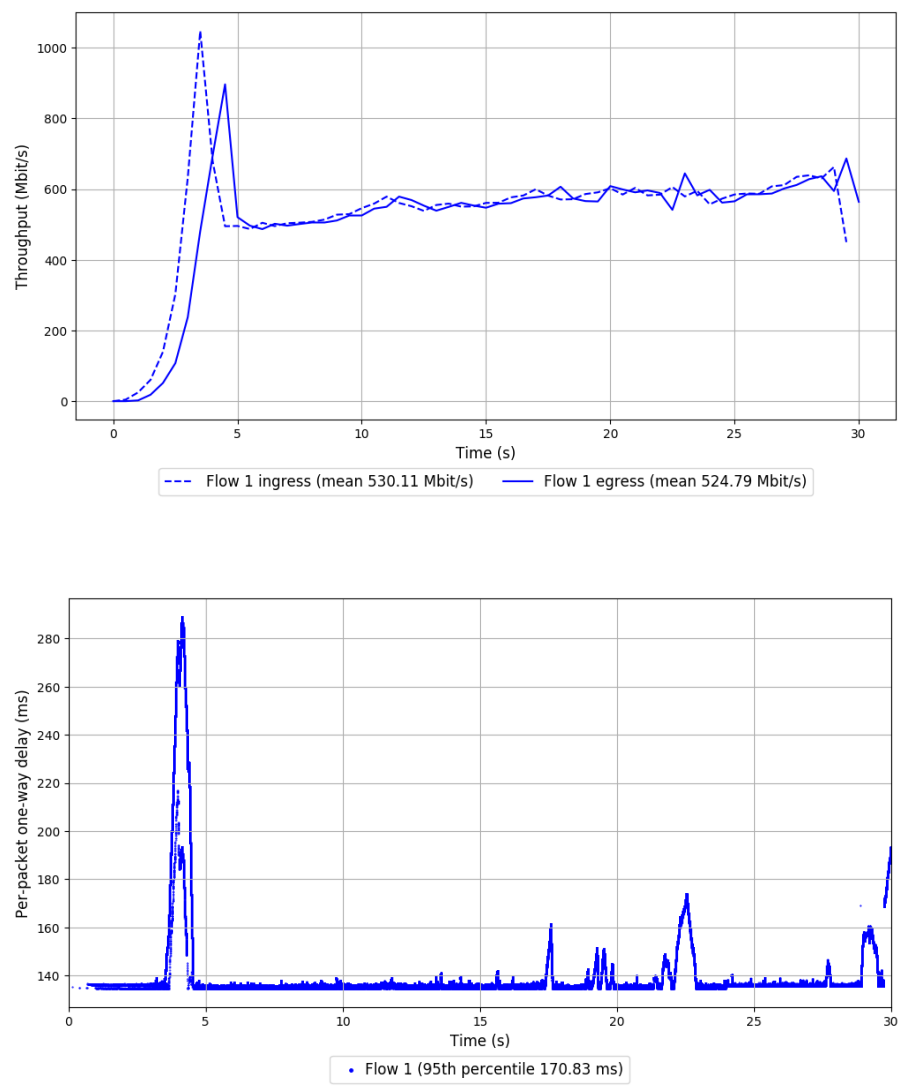
-- Flow 1:

Average throughput: 524.79 Mbit/s

95th percentile per-packet one-way delay: 170.828 ms

Loss rate: 1.00%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-08-11 04:28:12

End at: 2018-08-11 04:28:42

Local clock offset: -0.049 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2018-08-11 06:04:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 554.01 Mbit/s

95th percentile per-packet one-way delay: 154.081 ms

Loss rate: 0.38%

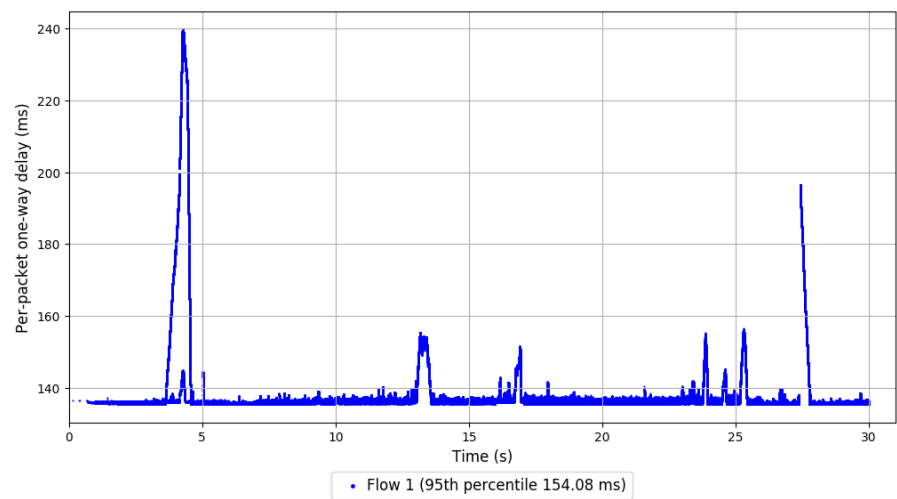
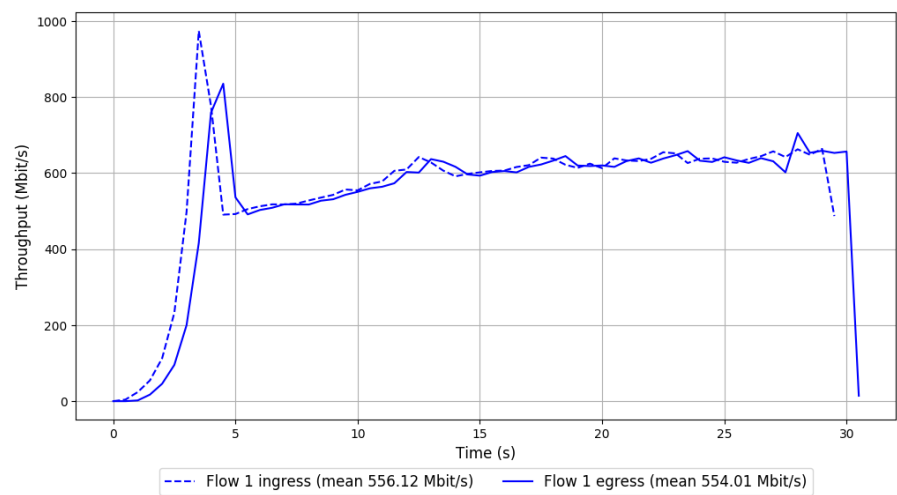
-- Flow 1:

Average throughput: 554.01 Mbit/s

95th percentile per-packet one-way delay: 154.081 ms

Loss rate: 0.38%

Run 10: Report of PCC-Allegro — Data Link

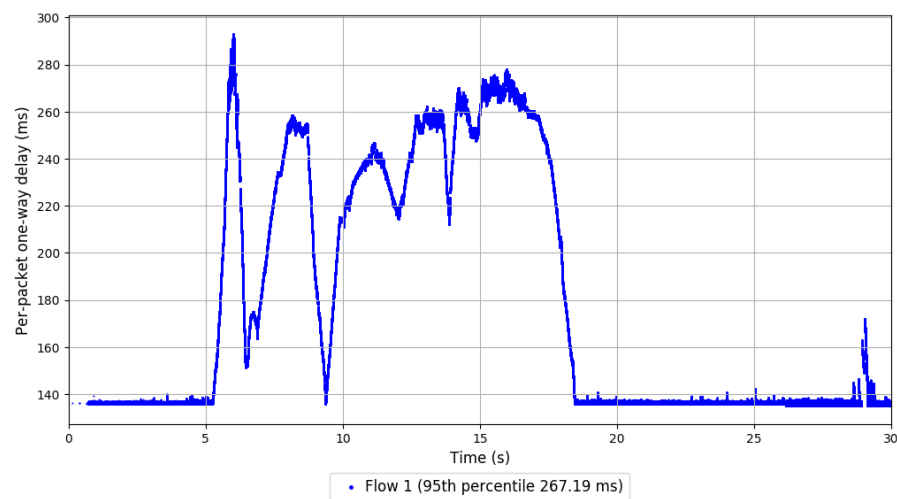
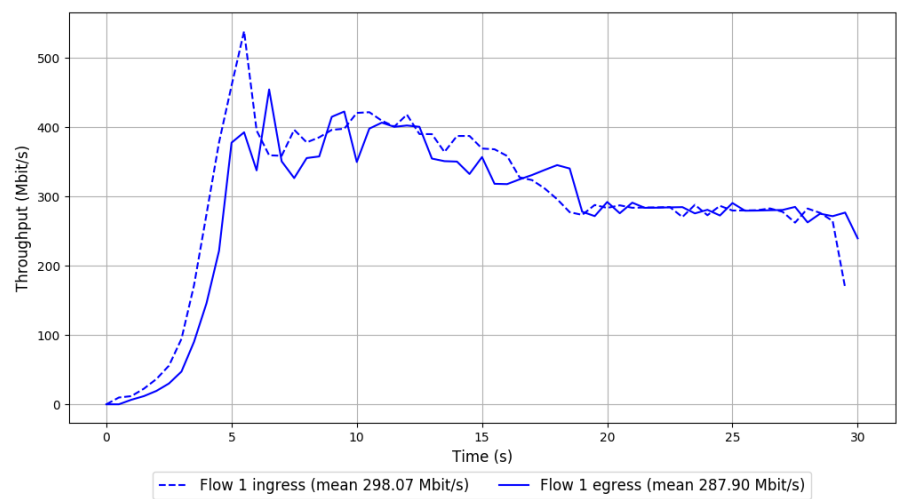


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-11 00:49:33
End at: 2018-08-11 00:50:03
Local clock offset: -0.058 ms
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2018-08-11 06:05:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 287.90 Mbit/s
95th percentile per-packet one-way delay: 267.194 ms
Loss rate: 3.41%
-- Flow 1:
Average throughput: 287.90 Mbit/s
95th percentile per-packet one-way delay: 267.194 ms
Loss rate: 3.41%
```

Run 1: Report of PCC-Expr — Data Link

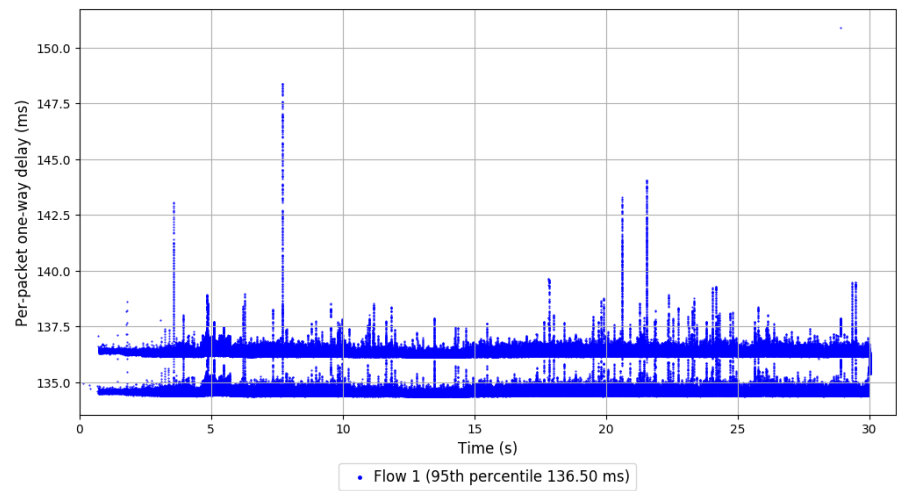
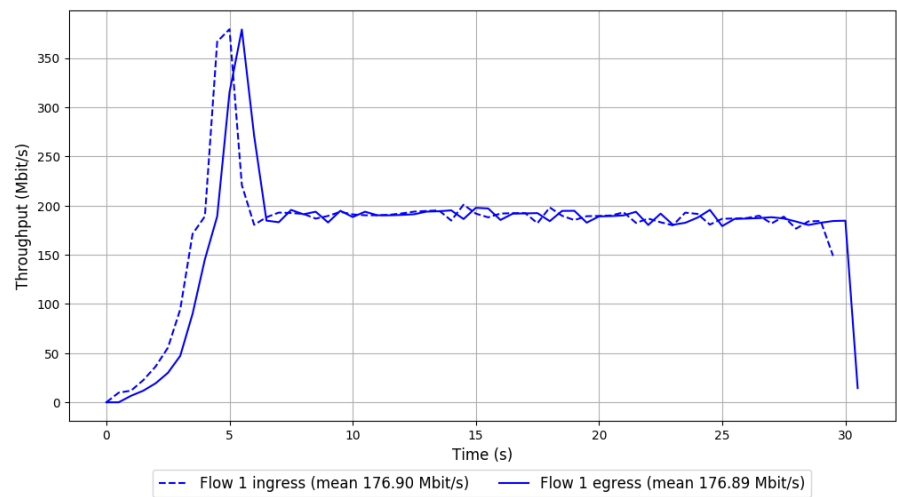


Run 2: Statistics of PCC-Expr

Start at: 2018-08-11 01:12:49
End at: 2018-08-11 01:13:19
Local clock offset: 0.375 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-08-11 06:05:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.89 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 176.89 Mbit/s
95th percentile per-packet one-way delay: 136.504 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-08-11 01:36:05

End at: 2018-08-11 01:36:35

Local clock offset: 0.064 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-08-11 06:09:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 263.56 Mbit/s

95th percentile per-packet one-way delay: 231.518 ms

Loss rate: 0.65%

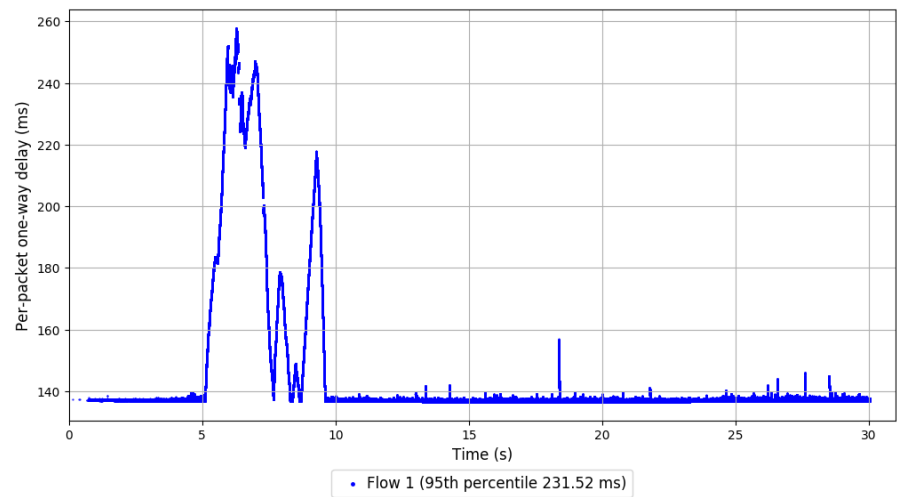
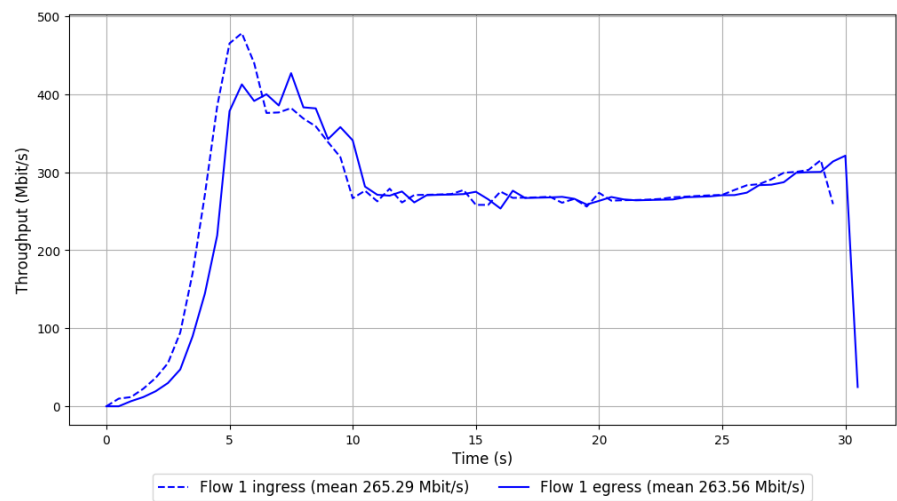
-- Flow 1:

Average throughput: 263.56 Mbit/s

95th percentile per-packet one-way delay: 231.518 ms

Loss rate: 0.65%

Run 3: Report of PCC-Expr — Data Link

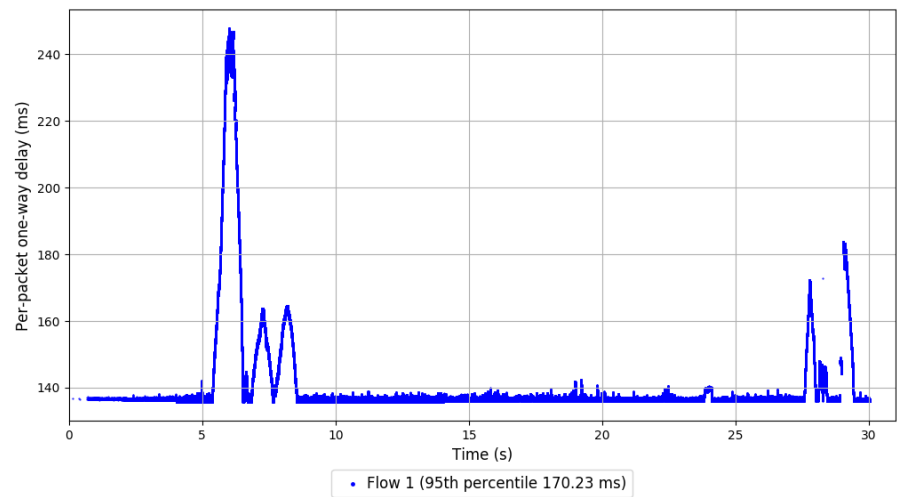
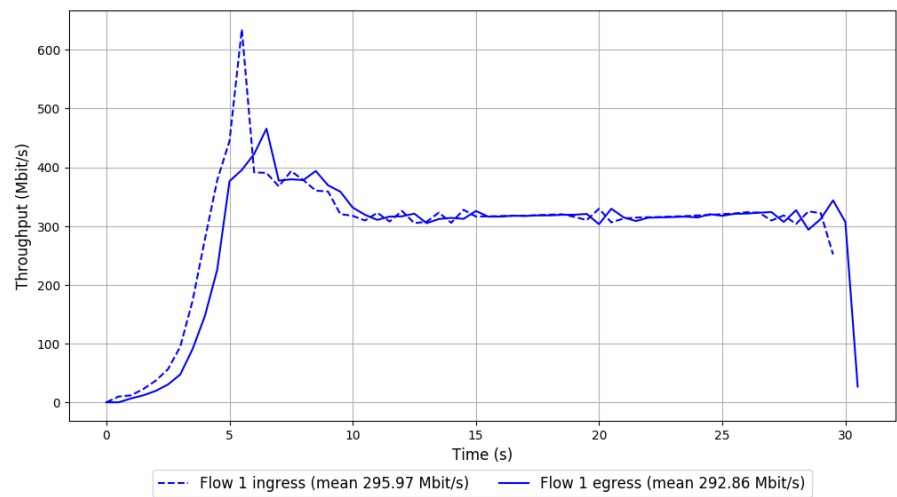


Run 4: Statistics of PCC-Expr

Start at: 2018-08-11 01:59:45
End at: 2018-08-11 02:00:15
Local clock offset: 0.286 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-08-11 06:10:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 292.86 Mbit/s
95th percentile per-packet one-way delay: 170.234 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 292.86 Mbit/s
95th percentile per-packet one-way delay: 170.234 ms
Loss rate: 1.05%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-08-11 02:23:15

End at: 2018-08-11 02:23:45

Local clock offset: 0.29 ms

Remote clock offset: 0.223 ms

Below is generated by plot.py at 2018-08-11 06:10:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.57 Mbit/s

95th percentile per-packet one-way delay: 137.445 ms

Loss rate: 0.00%

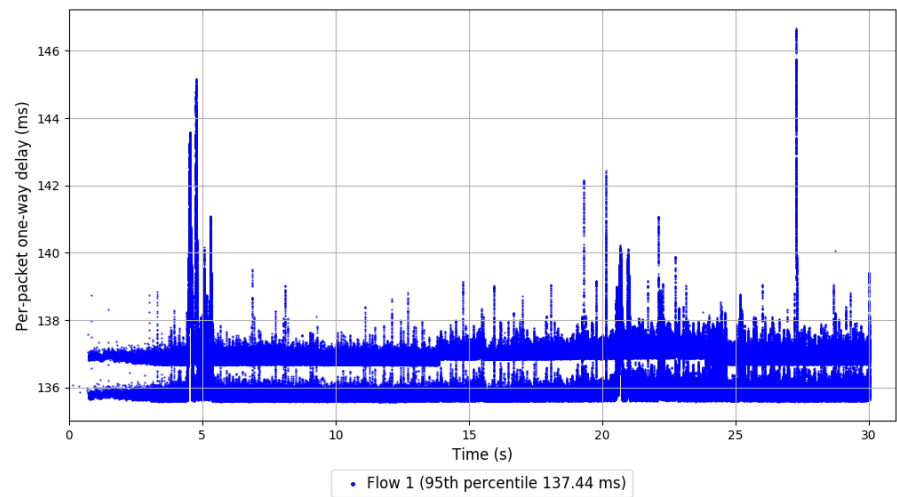
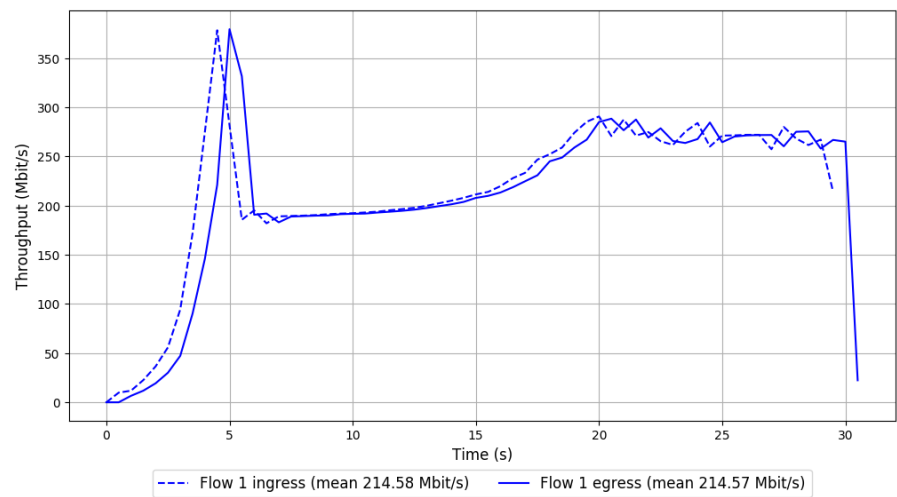
-- Flow 1:

Average throughput: 214.57 Mbit/s

95th percentile per-packet one-way delay: 137.445 ms

Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

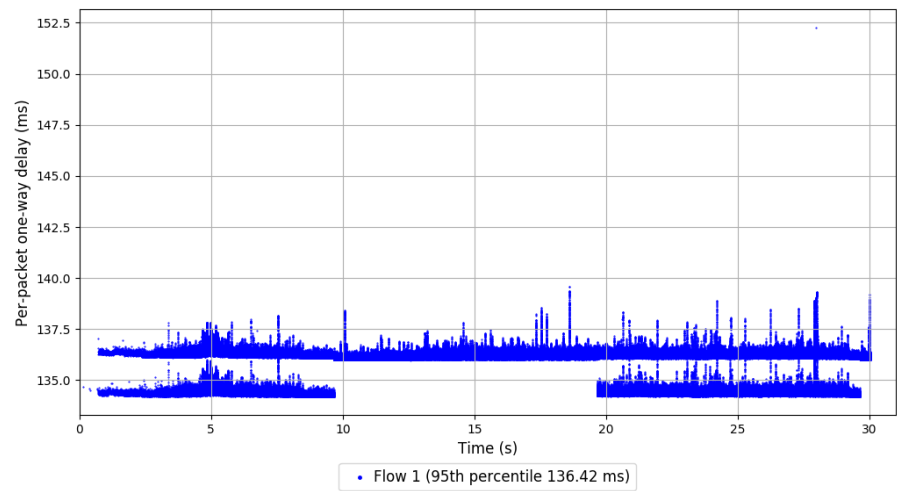
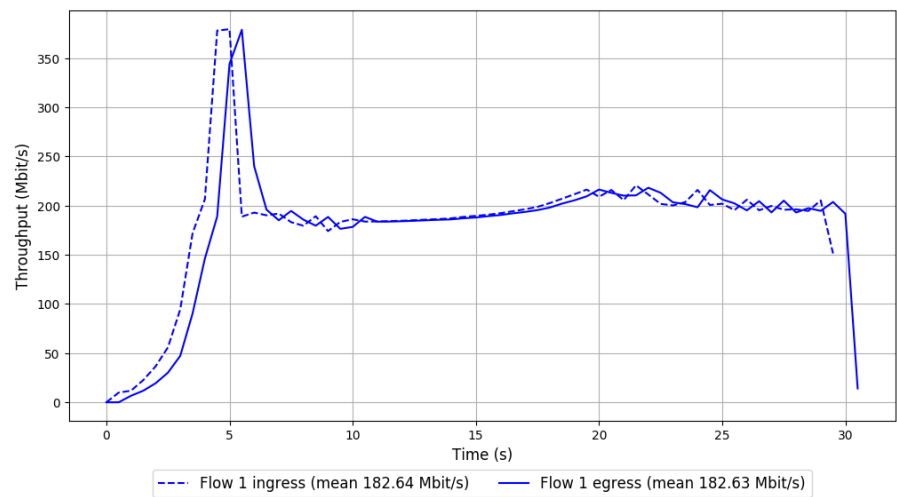


Run 6: Statistics of PCC-Expr

Start at: 2018-08-11 02:46:39
End at: 2018-08-11 02:47:09
Local clock offset: 0.27 ms
Remote clock offset: -0.478 ms

Below is generated by plot.py at 2018-08-11 06:10:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 182.63 Mbit/s
95th percentile per-packet one-way delay: 136.424 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 182.63 Mbit/s
95th percentile per-packet one-way delay: 136.424 ms
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link

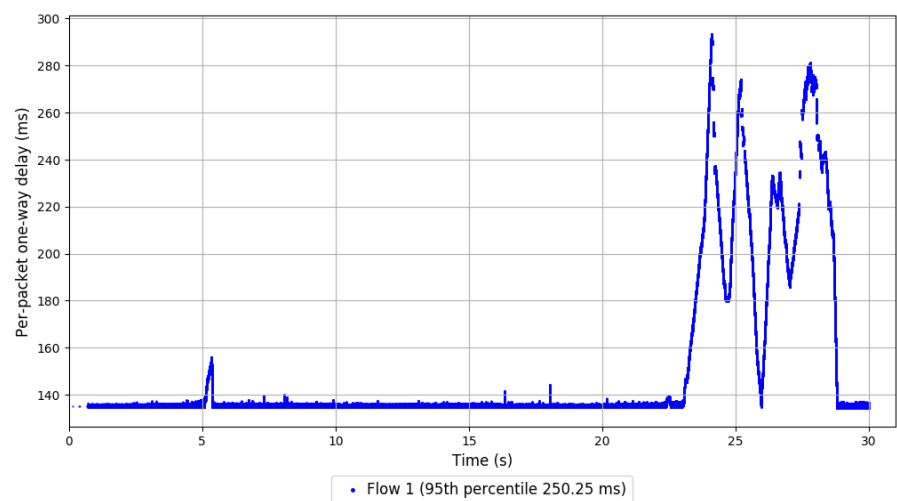
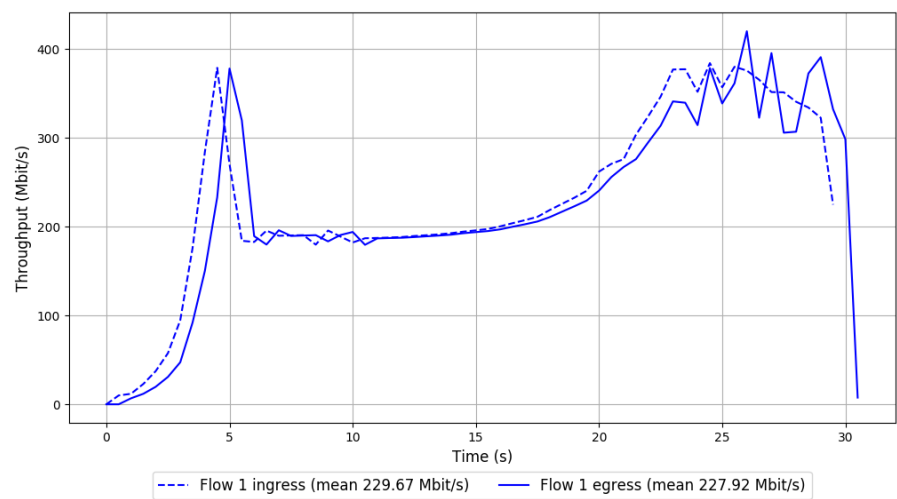


Run 7: Statistics of PCC-Expr

Start at: 2018-08-11 03:10:10
End at: 2018-08-11 03:10:40
Local clock offset: 0.383 ms
Remote clock offset: -0.181 ms

Below is generated by plot.py at 2018-08-11 06:11:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 227.92 Mbit/s
95th percentile per-packet one-way delay: 250.253 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 227.92 Mbit/s
95th percentile per-packet one-way delay: 250.253 ms
Loss rate: 0.78%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-08-11 03:33:41

End at: 2018-08-11 03:34:11

Local clock offset: 0.47 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-08-11 06:11:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 206.75 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.00%

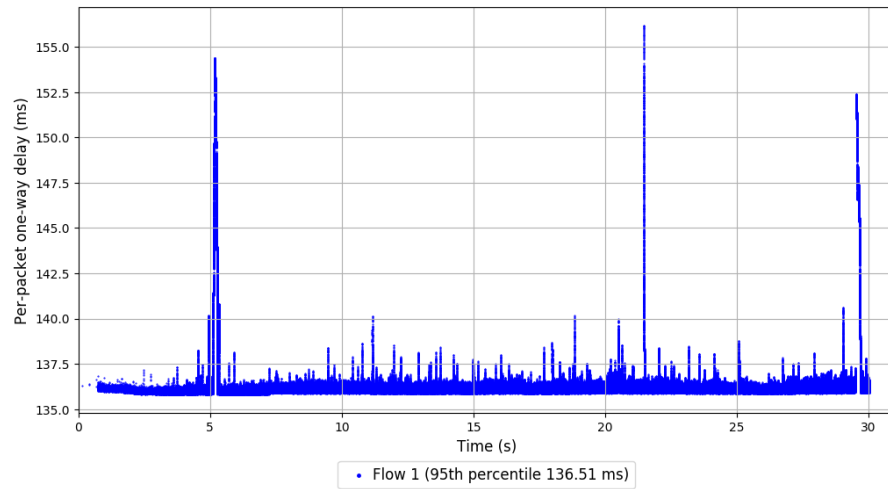
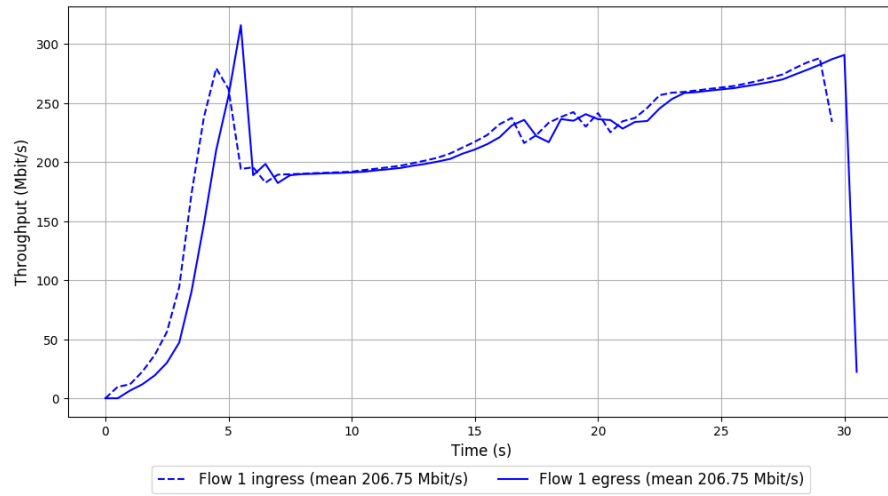
-- Flow 1:

Average throughput: 206.75 Mbit/s

95th percentile per-packet one-way delay: 136.510 ms

Loss rate: 0.00%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-08-11 03:56:47

End at: 2018-08-11 03:57:17

Local clock offset: 0.426 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-08-11 06:17:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 315.79 Mbit/s

95th percentile per-packet one-way delay: 281.092 ms

Loss rate: 8.00%

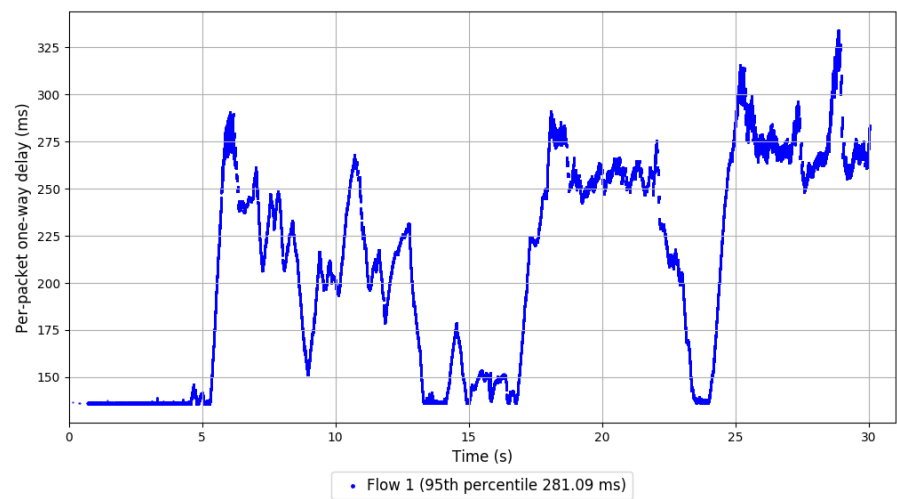
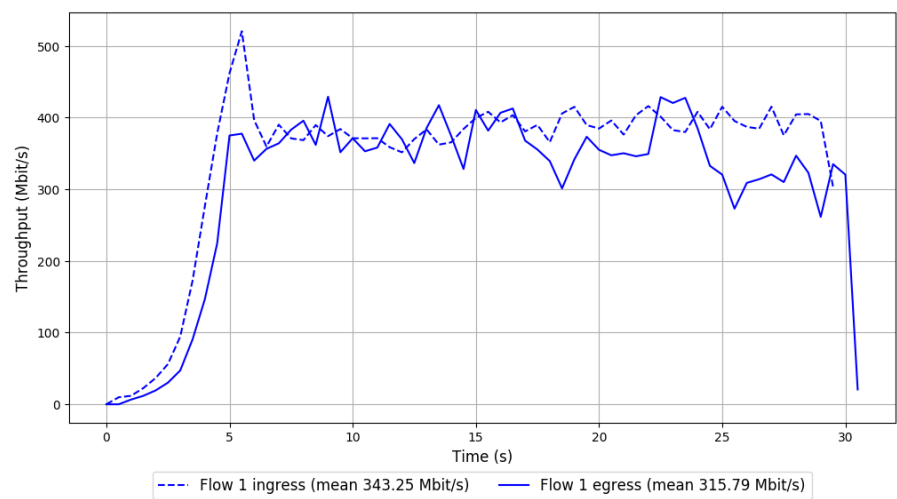
-- Flow 1:

Average throughput: 315.79 Mbit/s

95th percentile per-packet one-way delay: 281.092 ms

Loss rate: 8.00%

Run 9: Report of PCC-Expr — Data Link

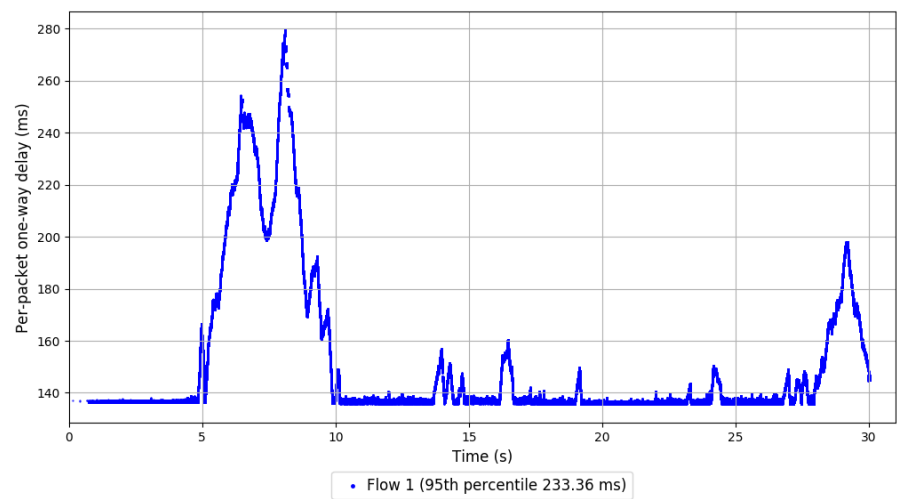
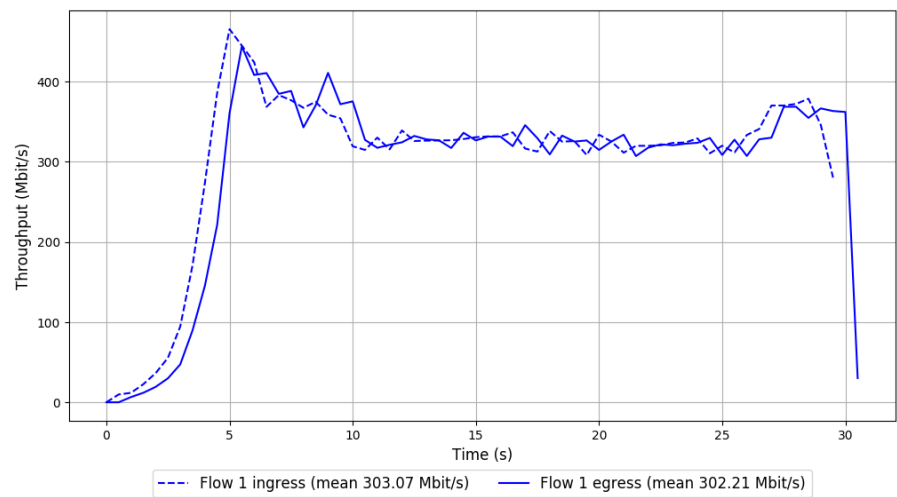


Run 10: Statistics of PCC-Expr

Start at: 2018-08-11 04:20:41
End at: 2018-08-11 04:21:11
Local clock offset: 0.204 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 302.21 Mbit/s
95th percentile per-packet one-way delay: 233.356 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 302.21 Mbit/s
95th percentile per-packet one-way delay: 233.356 ms
Loss rate: 0.29%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

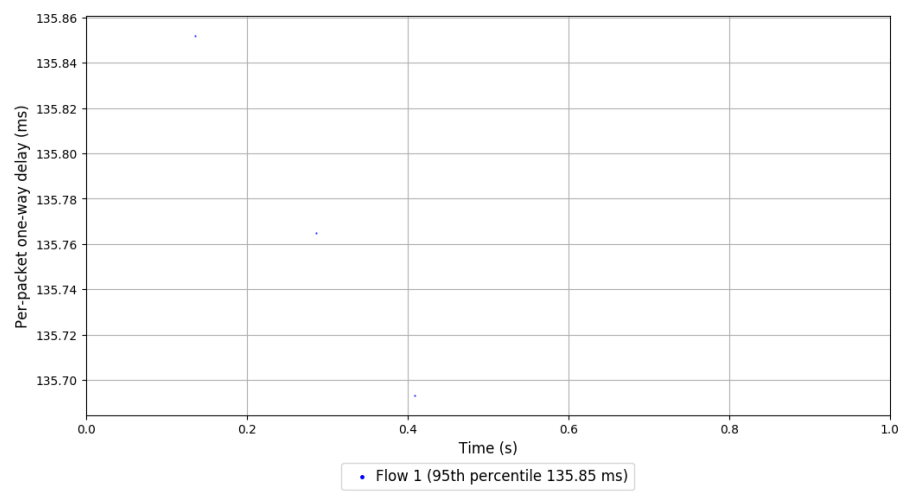
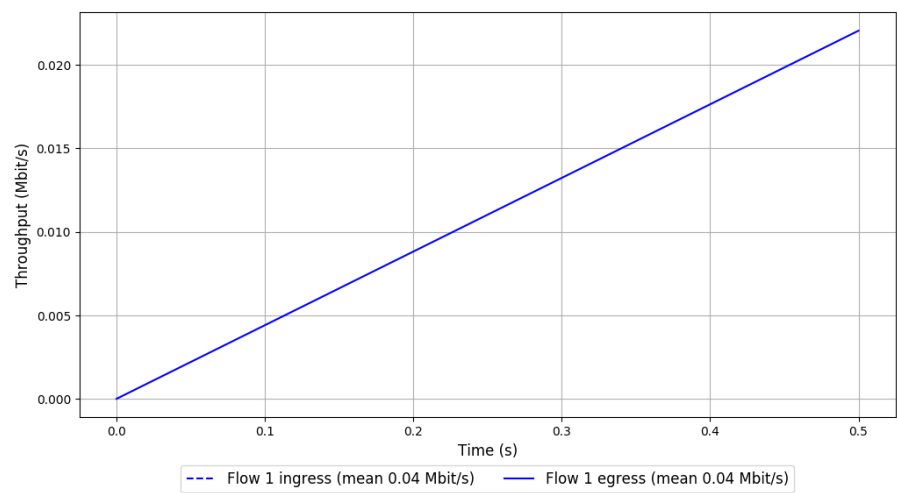
Start at: 2018-08-11 00:43:09

End at: 2018-08-11 00:43:39

Local clock offset: 0.169 ms

Remote clock offset: -0.258 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

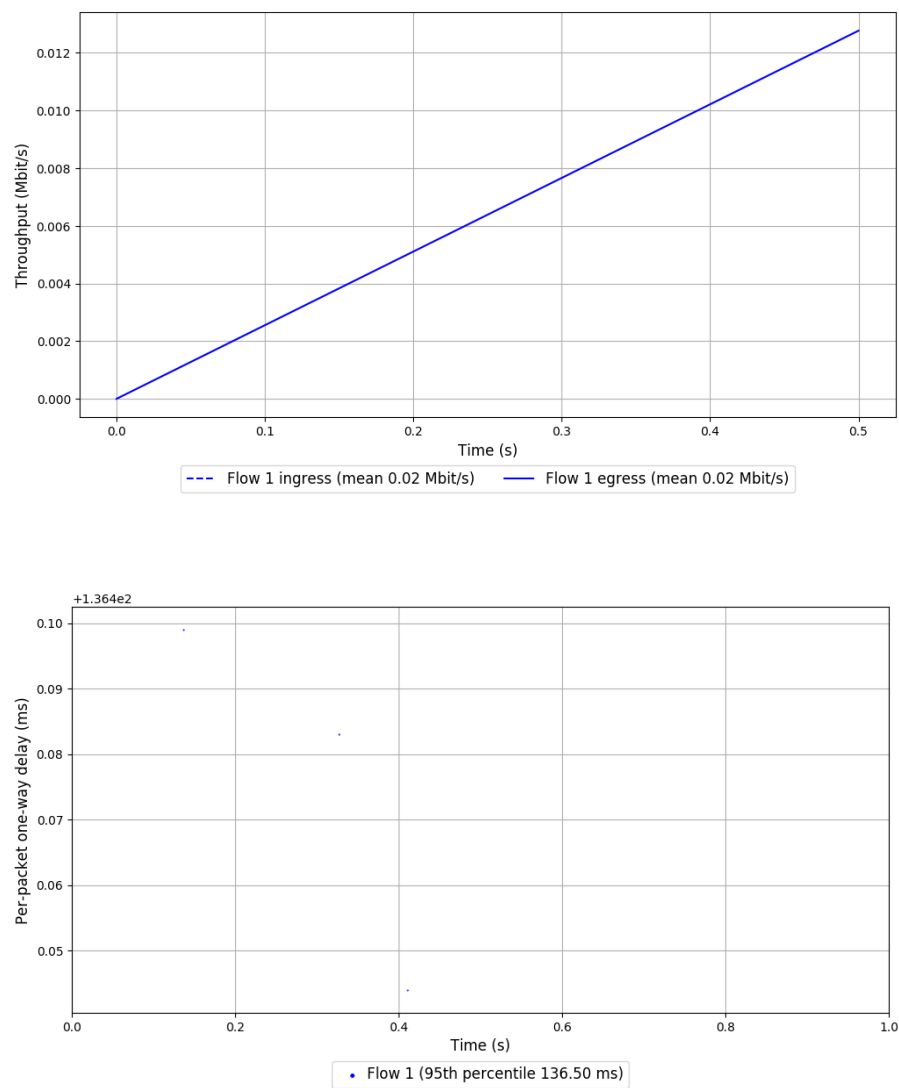
Start at: 2018-08-11 01:06:22

End at: 2018-08-11 01:06:52

Local clock offset: 0.202 ms

Remote clock offset: 0.012 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

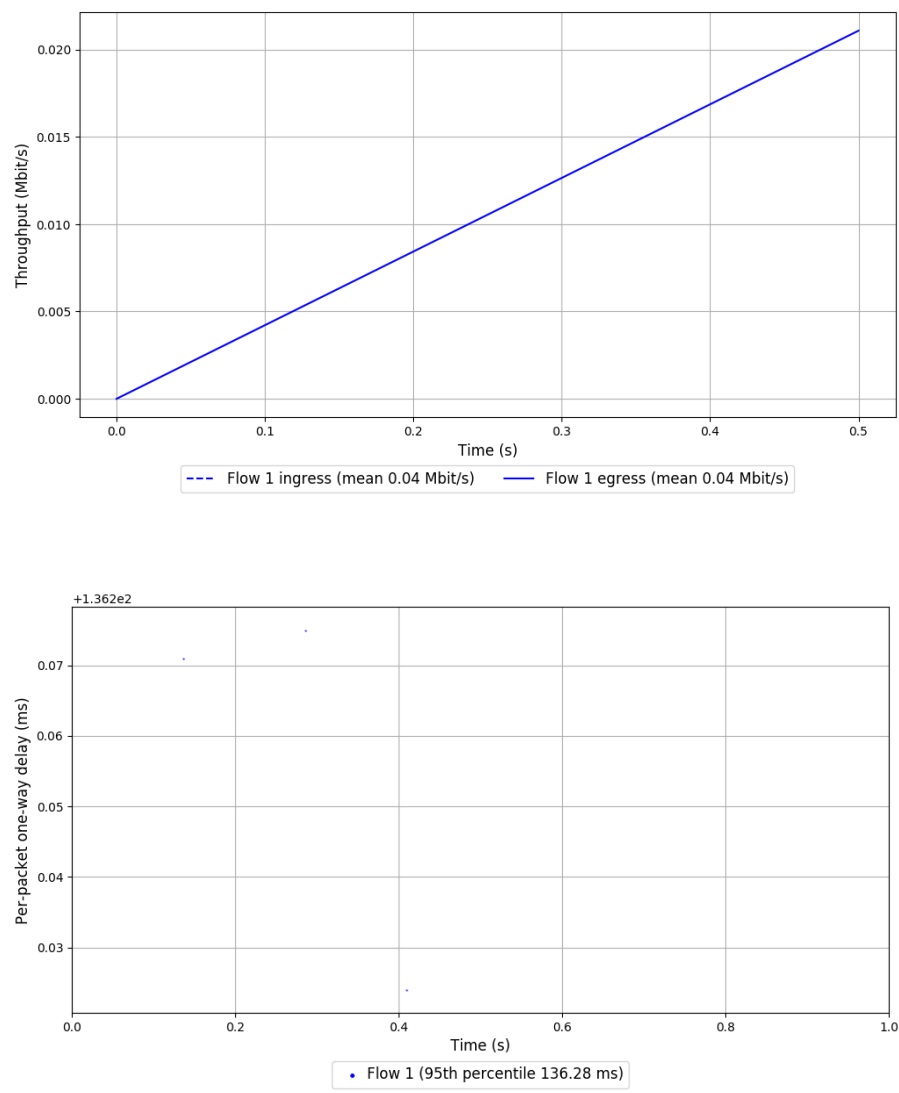
Start at: 2018-08-11 01:29:41

End at: 2018-08-11 01:30:11

Local clock offset: 0.055 ms

Remote clock offset: -0.345 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-08-11 01:53:12

End at: 2018-08-11 01:53:42

Local clock offset: 0.228 ms

Remote clock offset: -0.544 ms

Below is generated by plot.py at 2018-08-11 06:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 136.201 ms

Loss rate: 0.00%

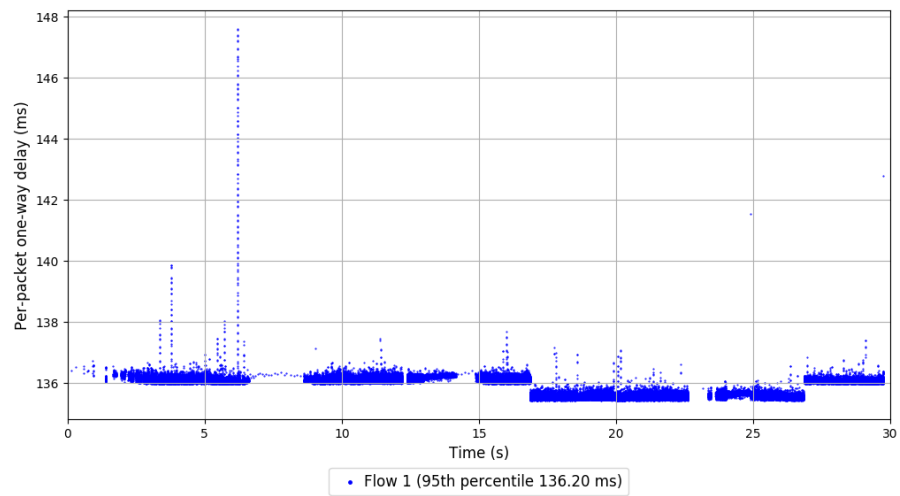
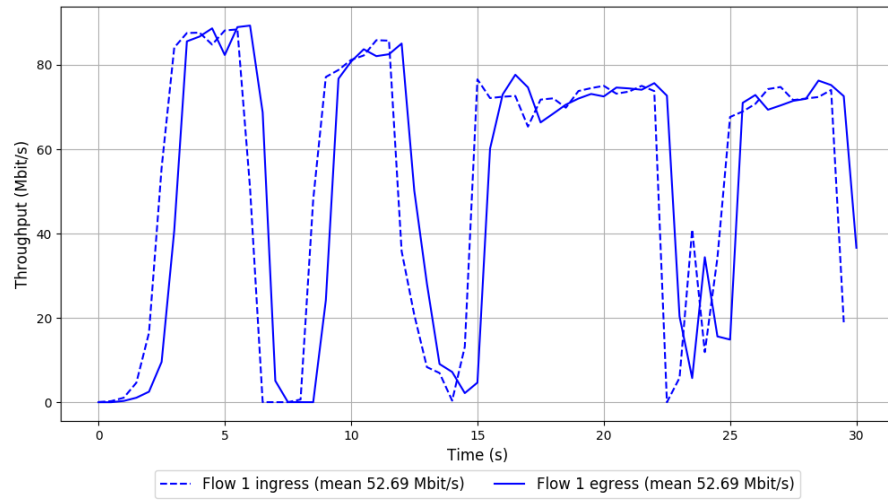
-- Flow 1:

Average throughput: 52.69 Mbit/s

95th percentile per-packet one-way delay: 136.201 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

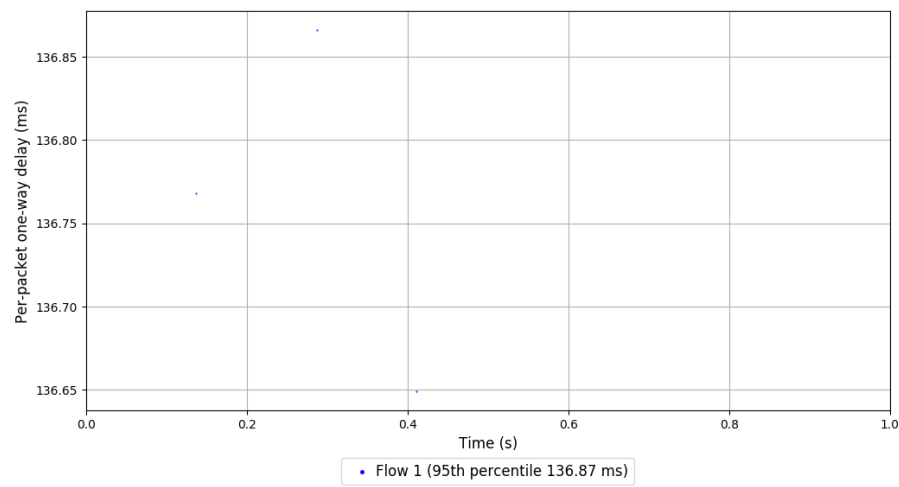
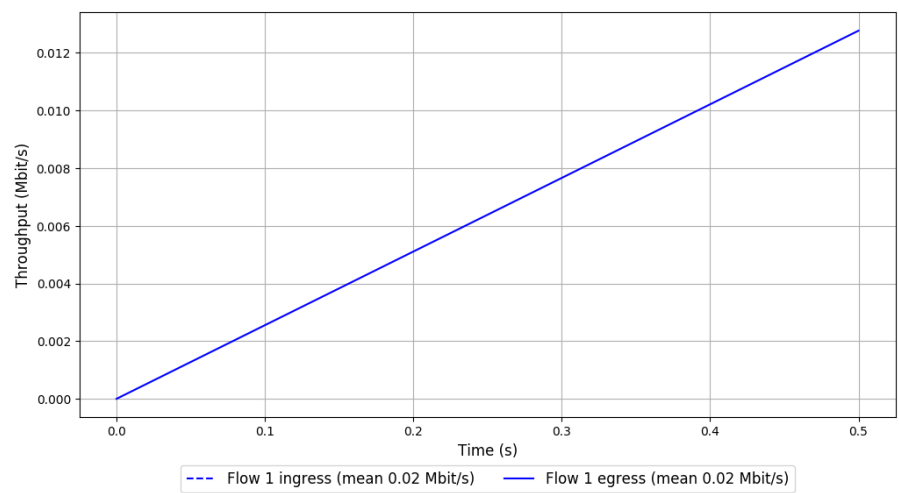
Start at: 2018-08-11 02:16:47

End at: 2018-08-11 02:17:17

Local clock offset: 0.272 ms

Remote clock offset: -0.145 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

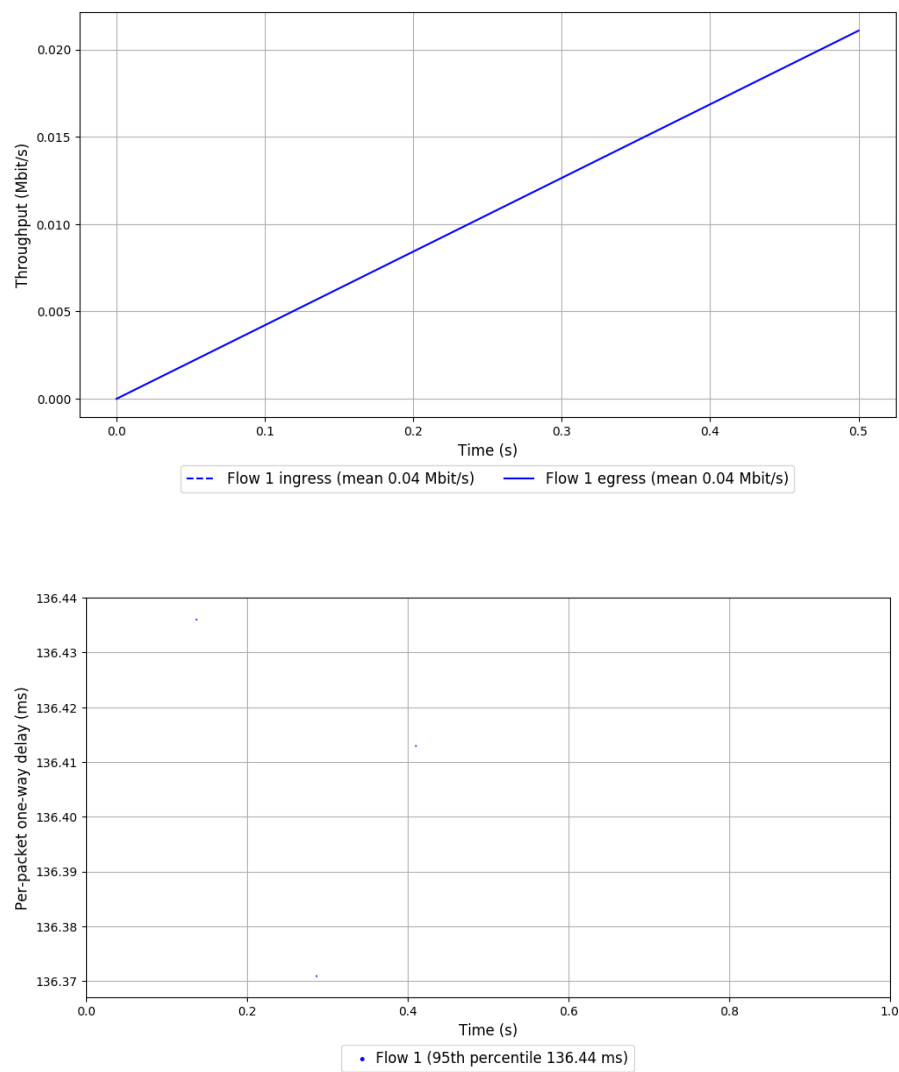
Start at: 2018-08-11 02:40:14

End at: 2018-08-11 02:40:44

Local clock offset: 0.383 ms

Remote clock offset: 0.211 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

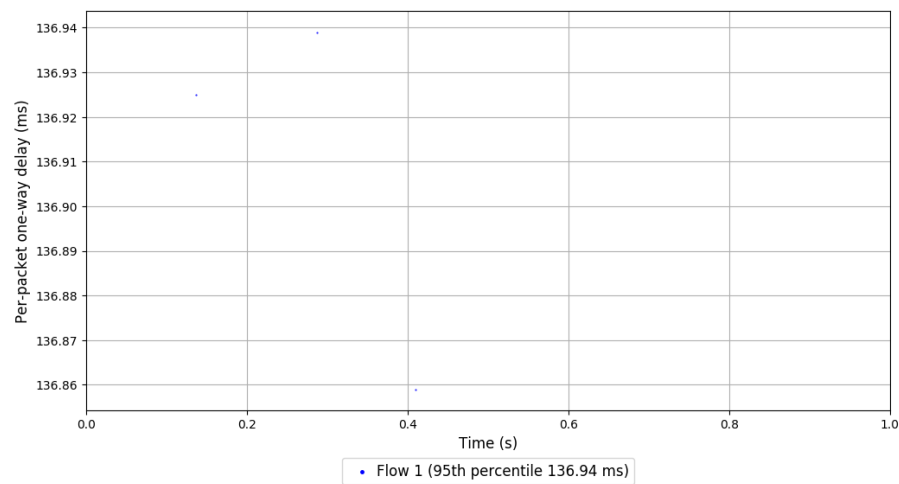
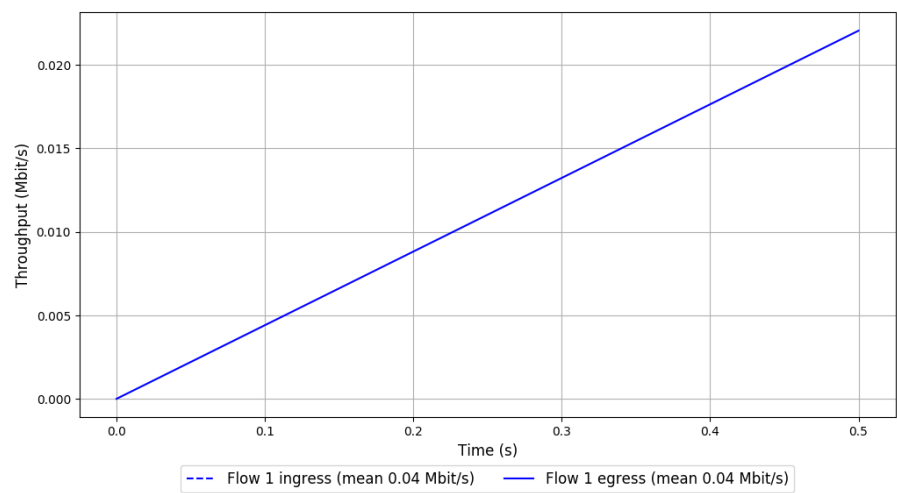
Start at: 2018-08-11 03:03:39

End at: 2018-08-11 03:04:09

Local clock offset: 0.384 ms

Remote clock offset: 0.214 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

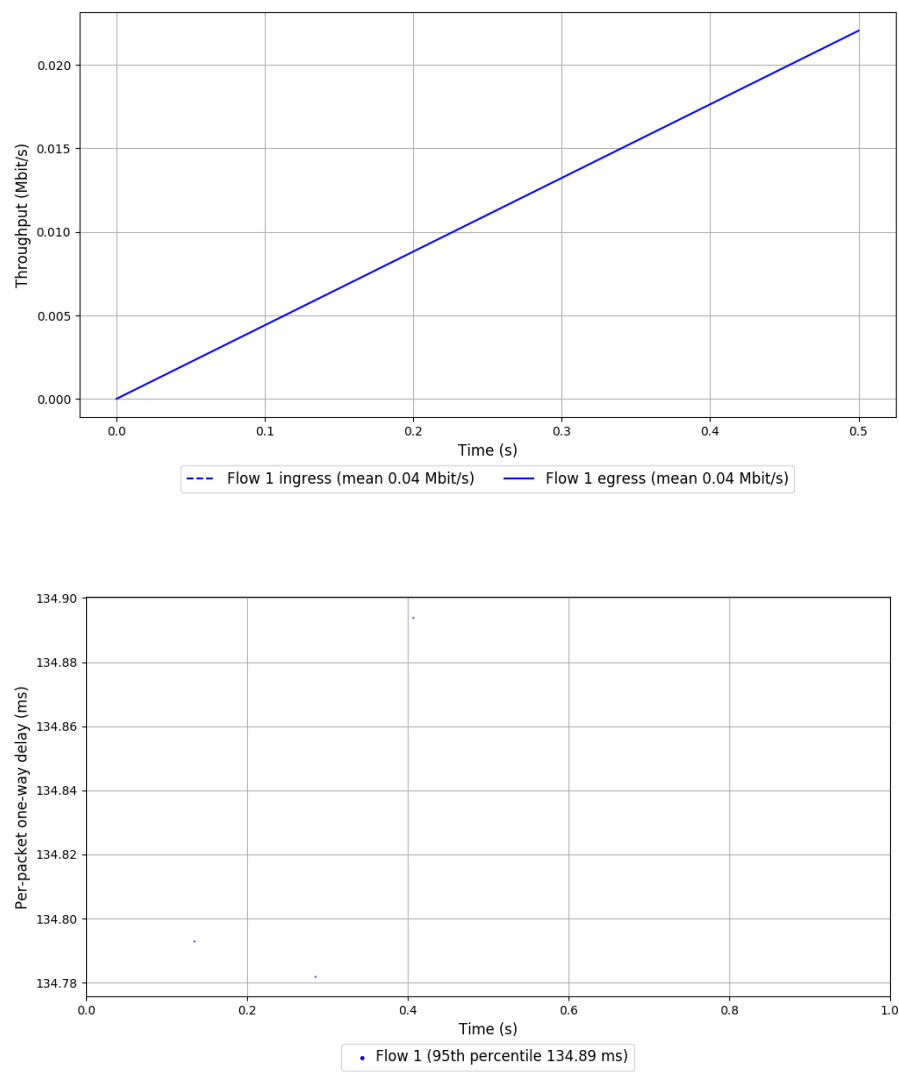
Start at: 2018-08-11 03:27:16

End at: 2018-08-11 03:27:46

Local clock offset: 0.372 ms

Remote clock offset: -0.532 ms

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

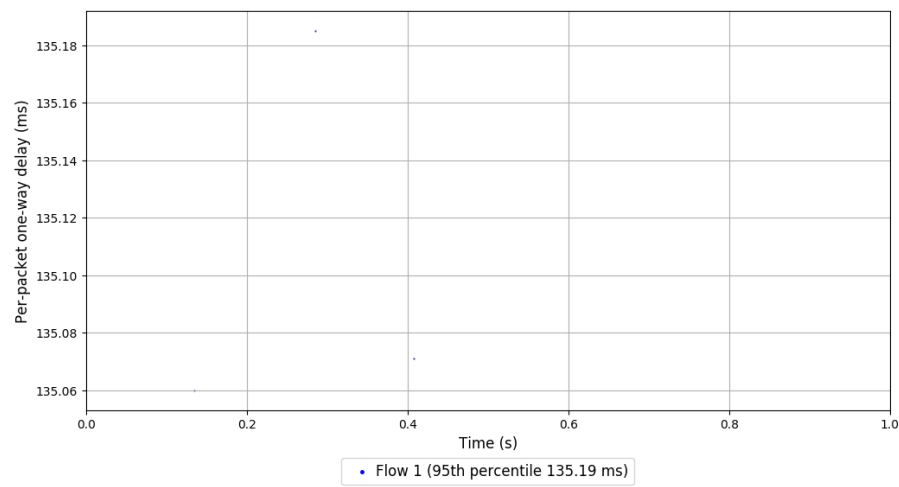
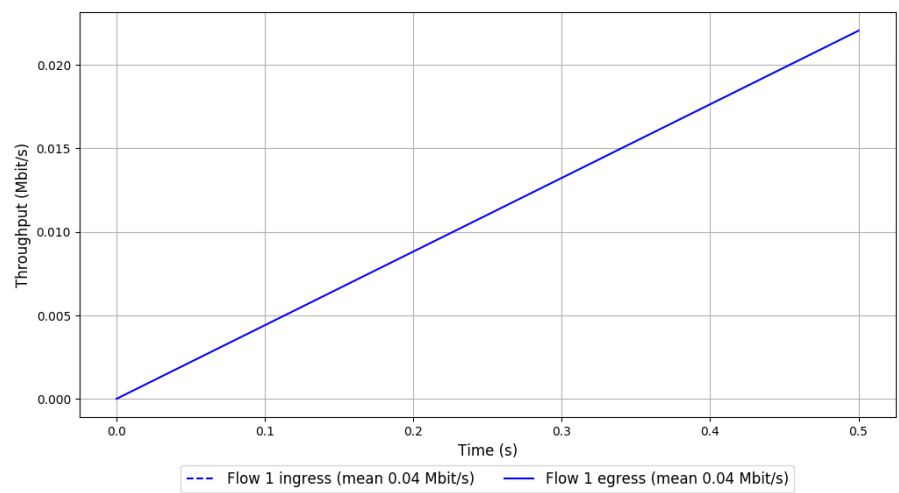
Start at: 2018-08-11 03:50:25

End at: 2018-08-11 03:50:55

Local clock offset: 0.501 ms

Remote clock offset: -0.108 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

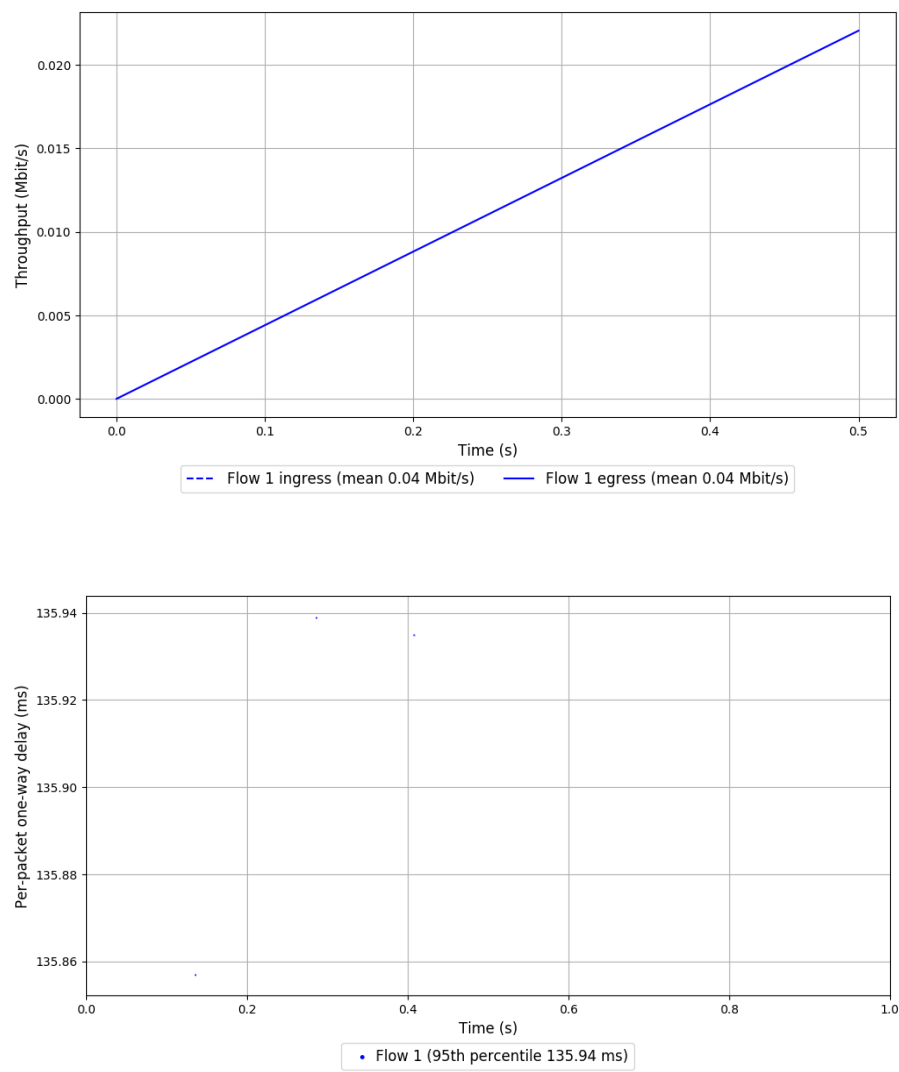
Start at: 2018-08-11 04:14:14

End at: 2018-08-11 04:14:44

Local clock offset: 0.413 ms

Remote clock offset: -0.49 ms

Run 10: Report of QUIC Cubic — Data Link

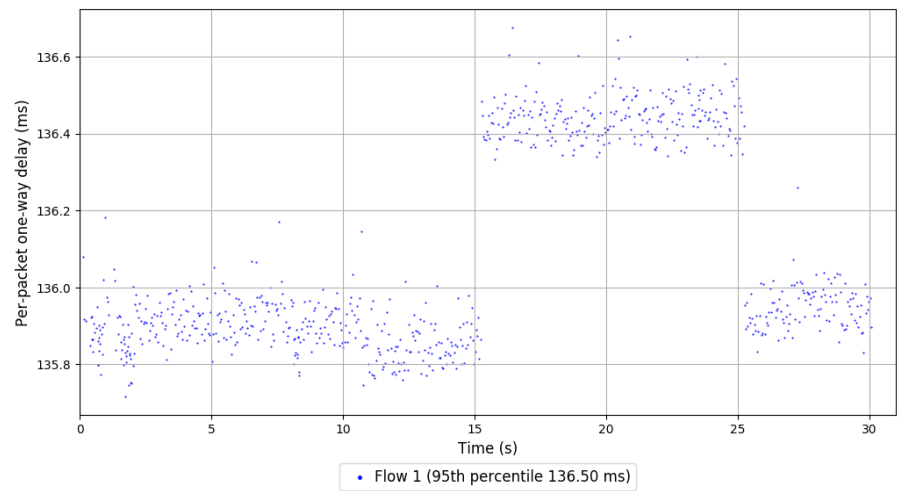
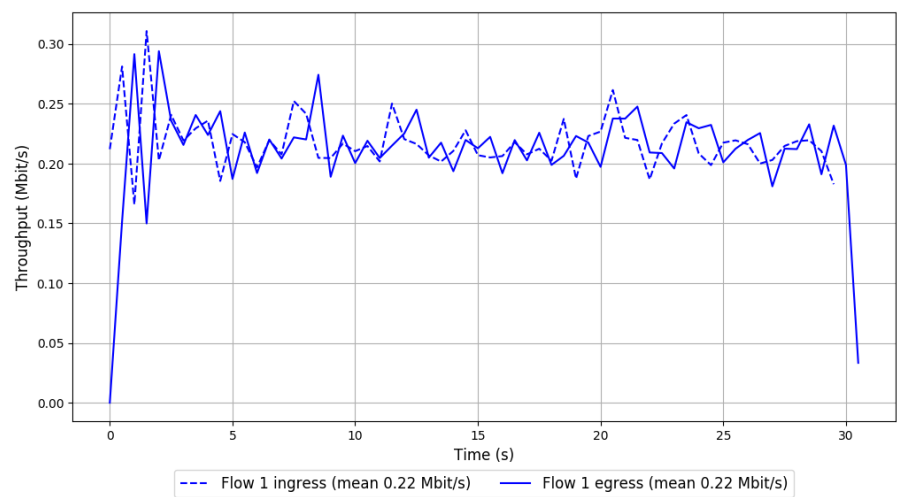


```
Run 1: Statistics of SCReAM

Start at: 2018-08-11 00:54:03
End at: 2018-08-11 00:54:33
Local clock offset: 0.262 ms
Remote clock offset: -0.284 ms

# Below is generated by plot.py at 2018-08-11 06:17:35
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.498 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.498 ms
Loss rate: 0.00%
```

Run 1: Report of SReAM — Data Link

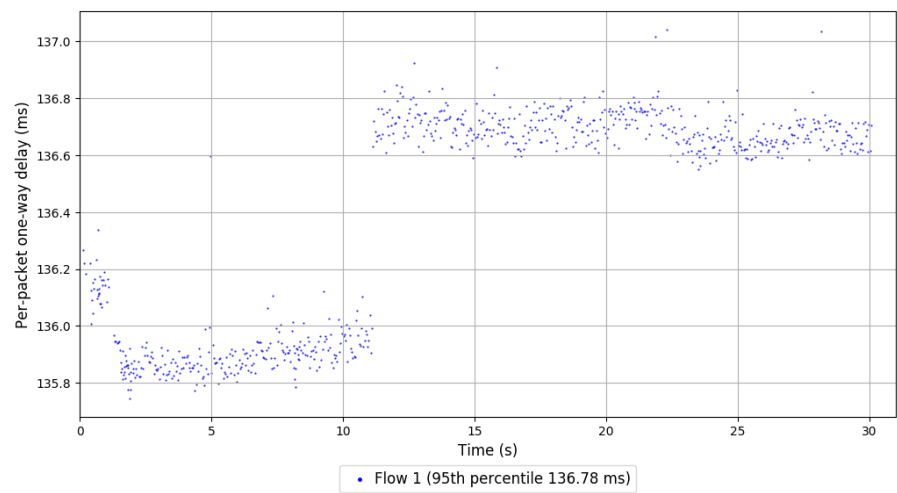
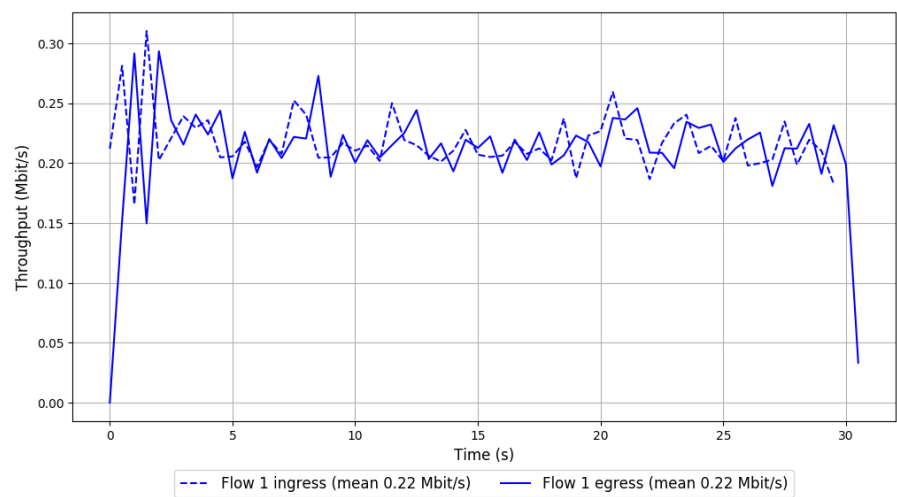


Run 2: Statistics of SCReAM

Start at: 2018-08-11 01:17:08
End at: 2018-08-11 01:17:38
Local clock offset: 0.083 ms
Remote clock offset: -0.693 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.776 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.776 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

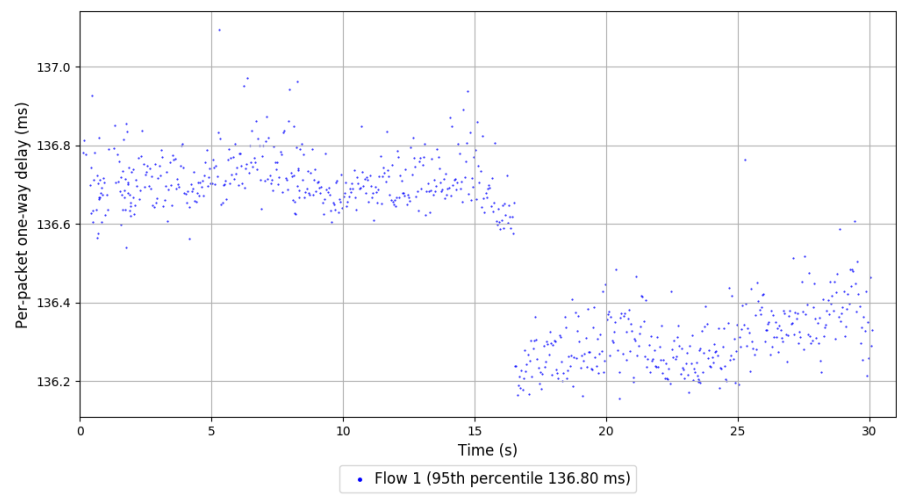
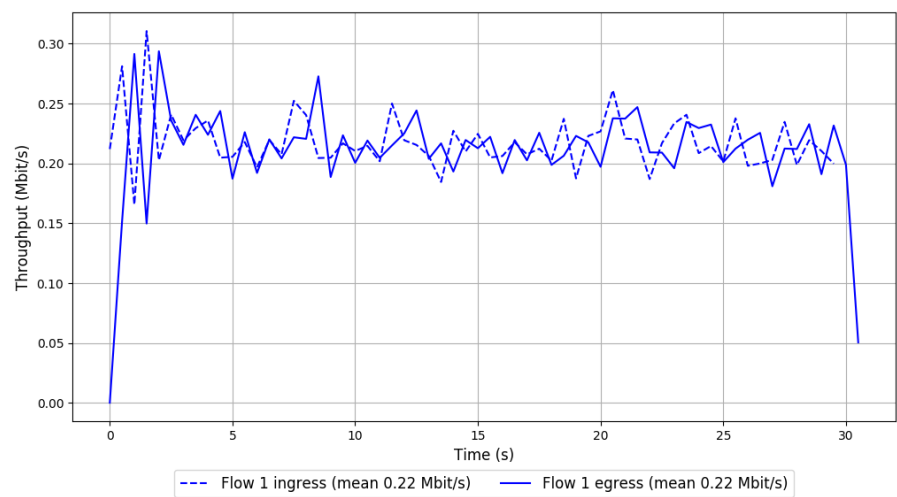


Run 3: Statistics of SCReAM

Start at: 2018-08-11 01:40:32
End at: 2018-08-11 01:41:02
Local clock offset: 0.092 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.804 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.804 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

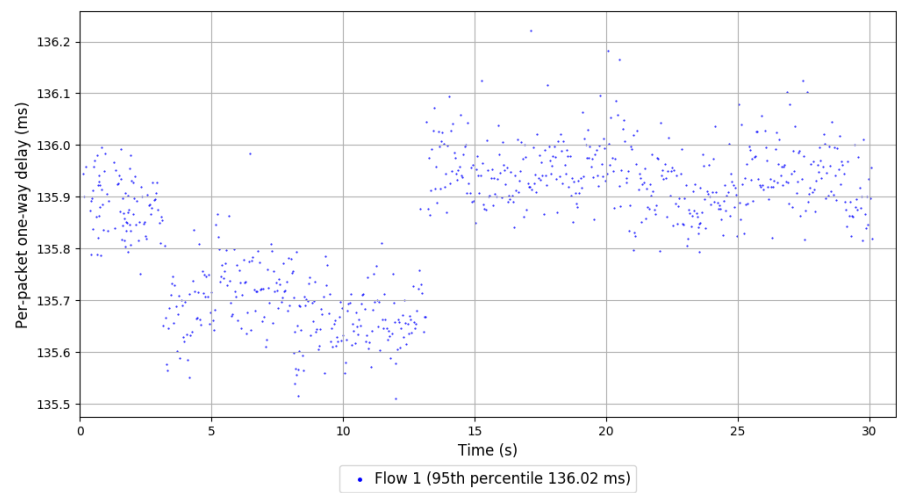
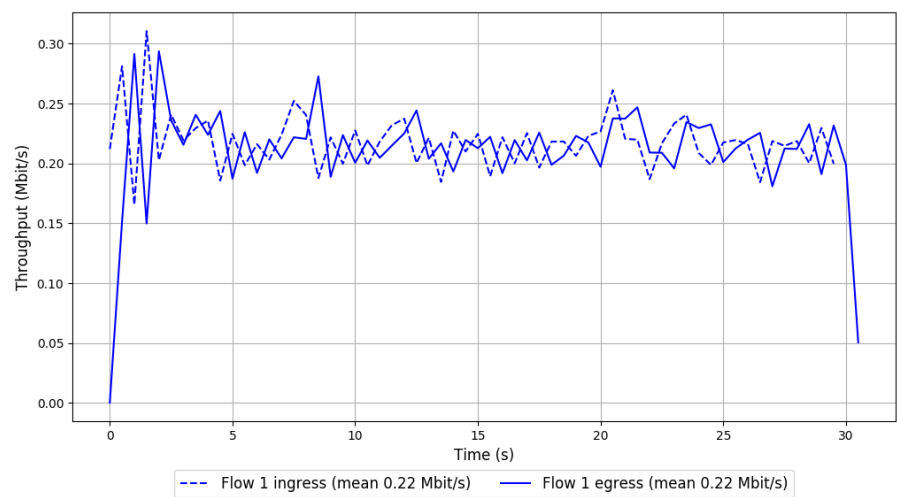


Run 4: Statistics of SCReAM

Start at: 2018-08-11 02:04:16
End at: 2018-08-11 02:04:46
Local clock offset: 0.559 ms
Remote clock offset: -0.147 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.024 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.024 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-08-11 02:27:38

End at: 2018-08-11 02:28:08

Local clock offset: 0.293 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-08-11 06:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 0.00%

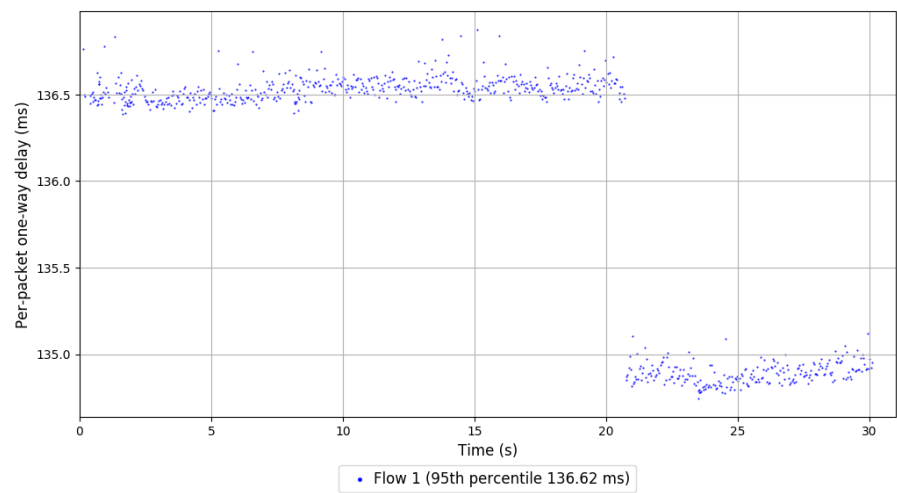
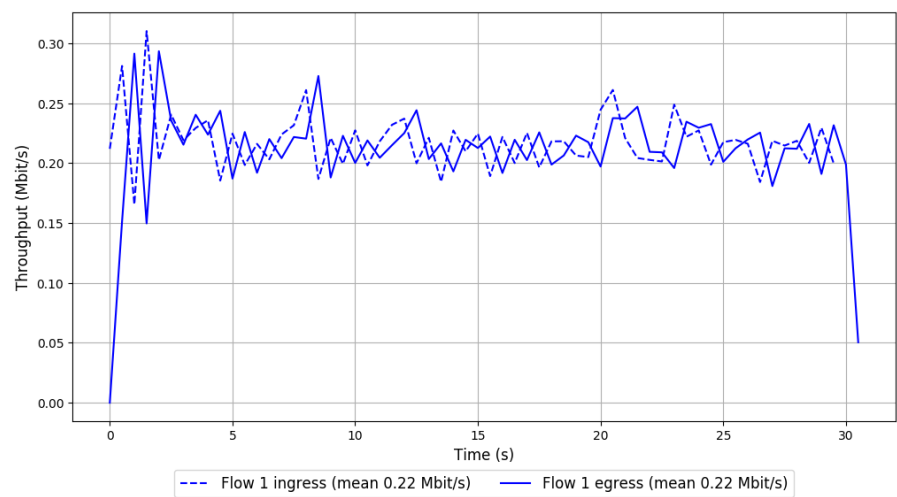
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.622 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-08-11 02:50:59

End at: 2018-08-11 02:51:29

Local clock offset: 0.329 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-08-11 06:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.100 ms

Loss rate: 0.00%

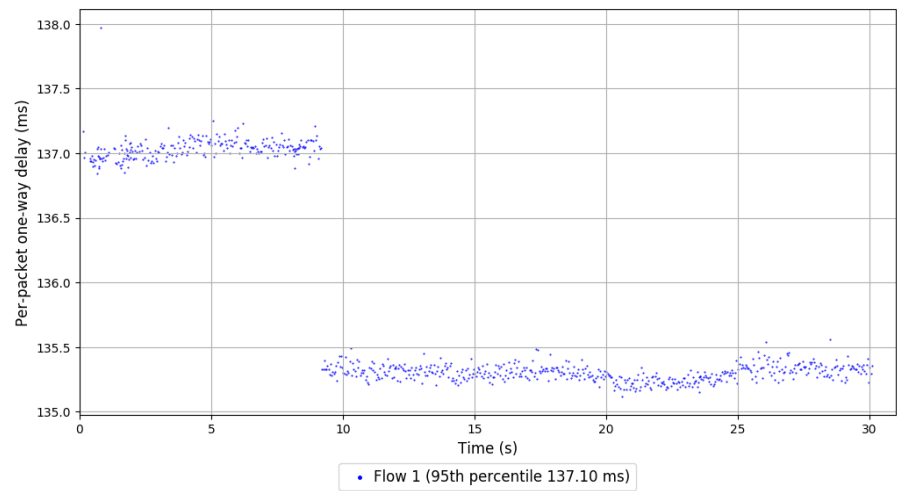
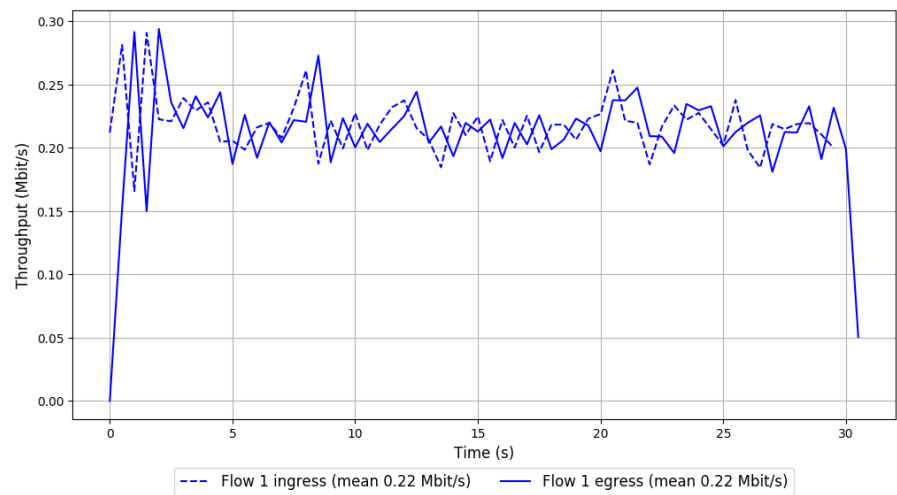
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 137.100 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-08-11 03:14:35

End at: 2018-08-11 03:15:05

Local clock offset: 0.355 ms

Remote clock offset: -0.14 ms

Below is generated by plot.py at 2018-08-11 06:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.572 ms

Loss rate: 0.00%

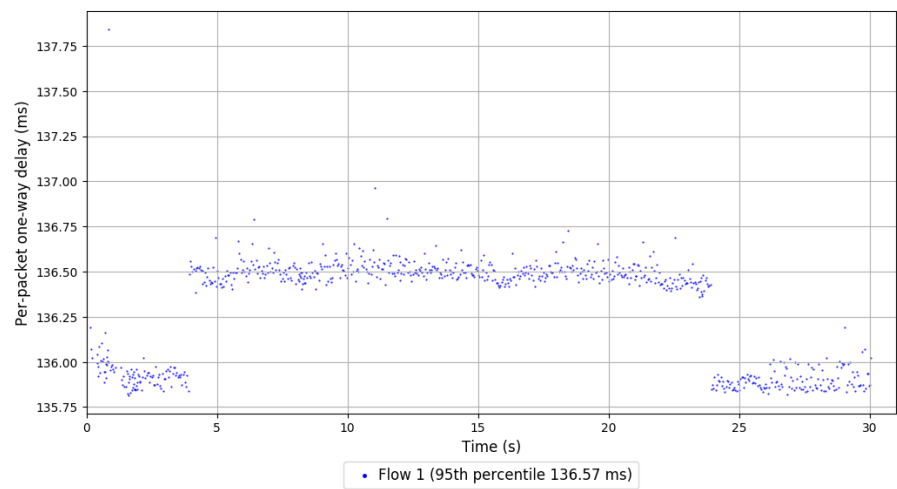
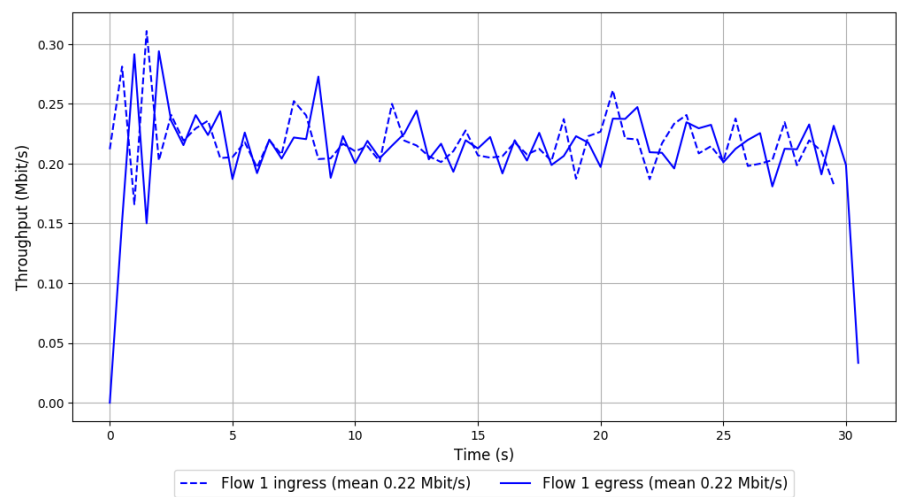
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.572 ms

Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

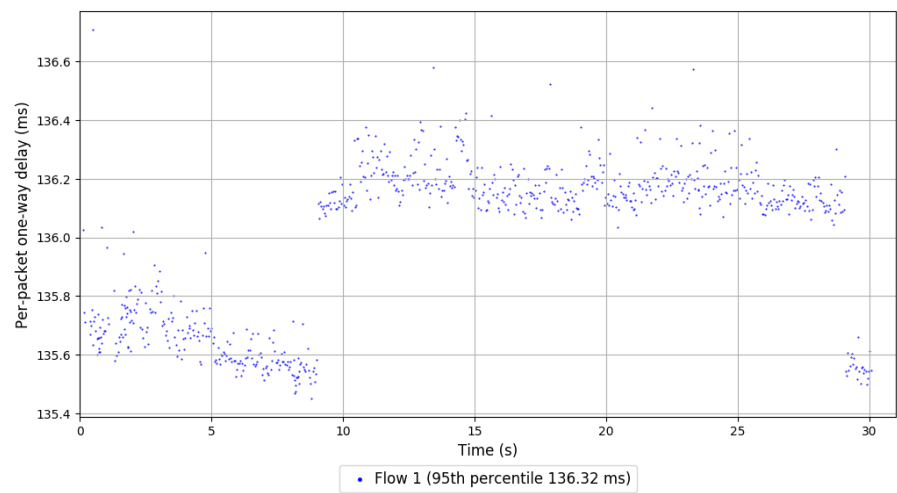
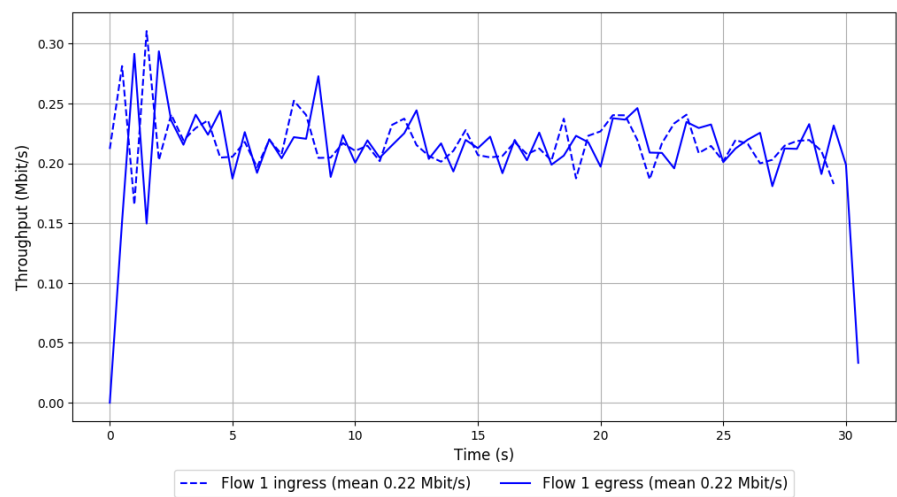


Run 8: Statistics of SCReAM

Start at: 2018-08-11 03:38:09
End at: 2018-08-11 03:38:39
Local clock offset: 0.691 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.322 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.322 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

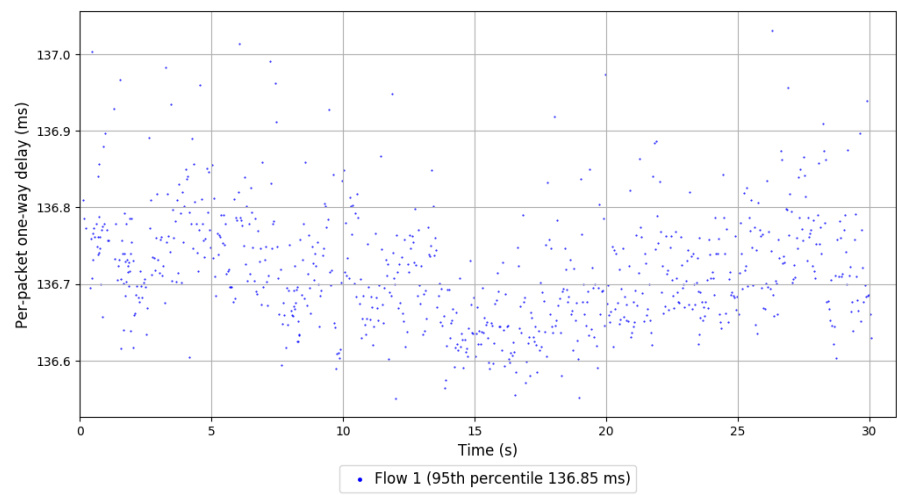
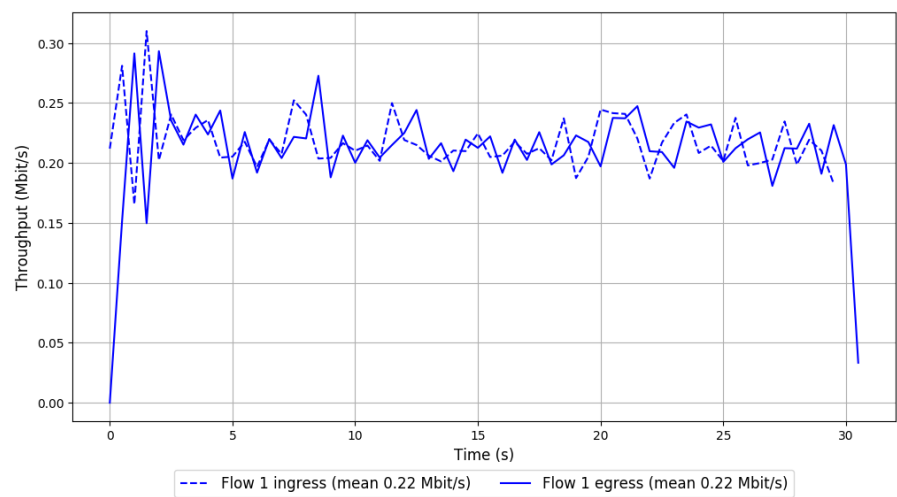


Run 9: Statistics of SCReAM

Start at: 2018-08-11 04:01:38
End at: 2018-08-11 04:02:08
Local clock offset: 0.311 ms
Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.851 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-08-11 04:25:19

End at: 2018-08-11 04:25:49

Local clock offset: 0.438 ms

Remote clock offset: -0.54 ms

Below is generated by plot.py at 2018-08-11 06:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.743 ms

Loss rate: 0.00%

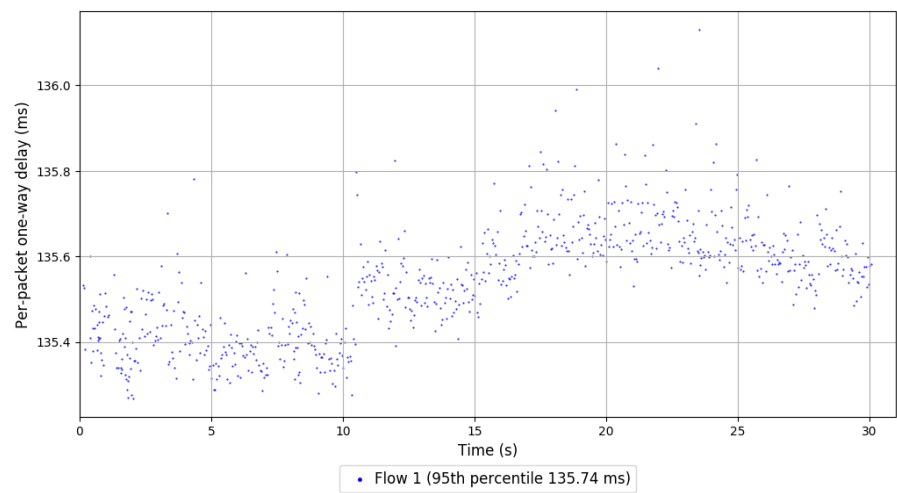
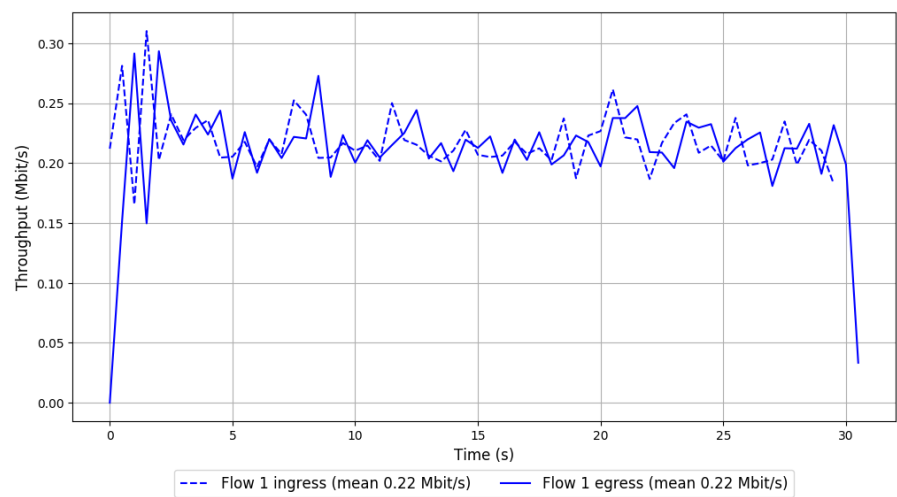
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 135.743 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link

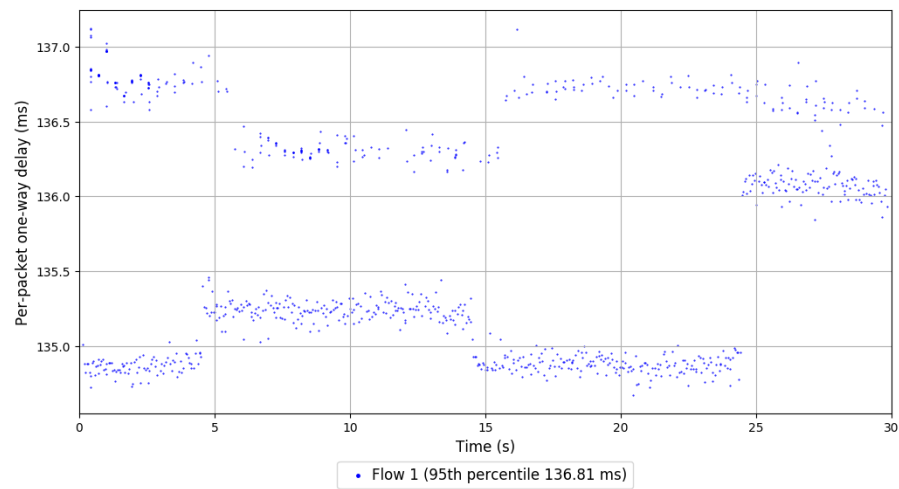
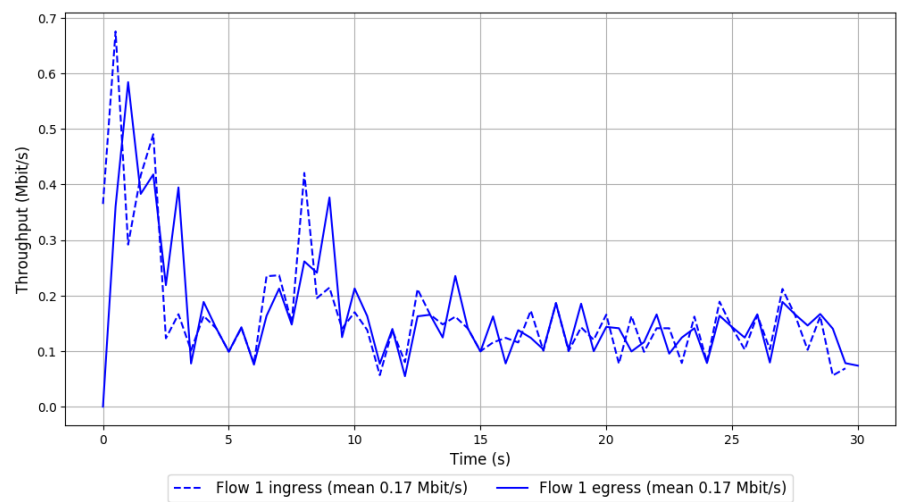


Run 1: Statistics of Sprout

Start at: 2018-08-11 00:45:33
End at: 2018-08-11 00:46:03
Local clock offset: 0.165 ms
Remote clock offset: -0.216 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 136.805 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

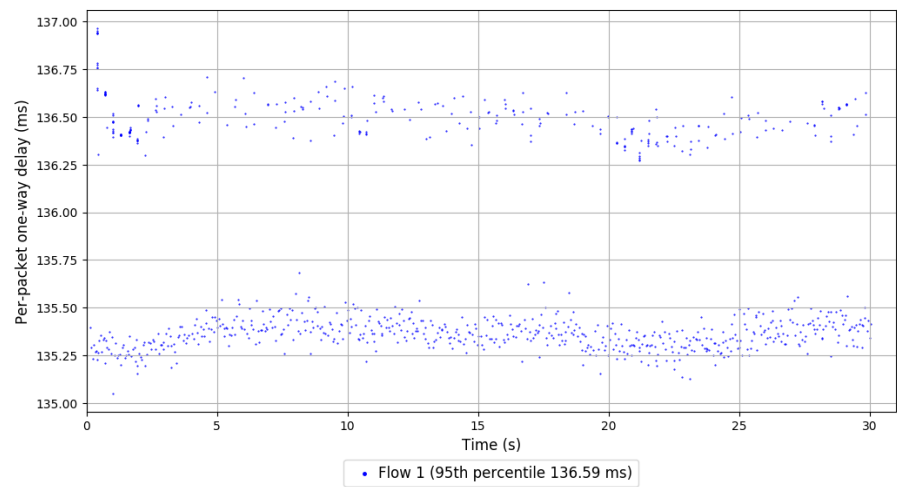
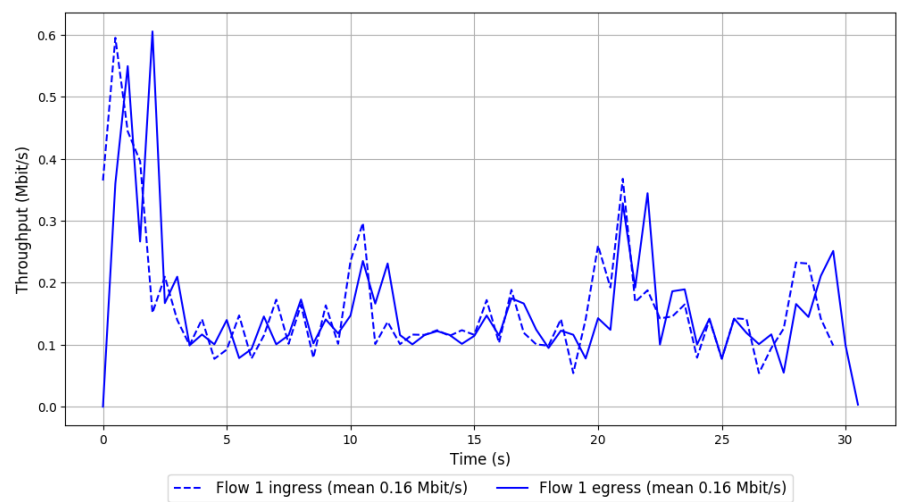


Run 2: Statistics of Sprout

Start at: 2018-08-11 01:08:51
End at: 2018-08-11 01:09:21
Local clock offset: 0.329 ms
Remote clock offset: -0.351 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.594 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.594 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

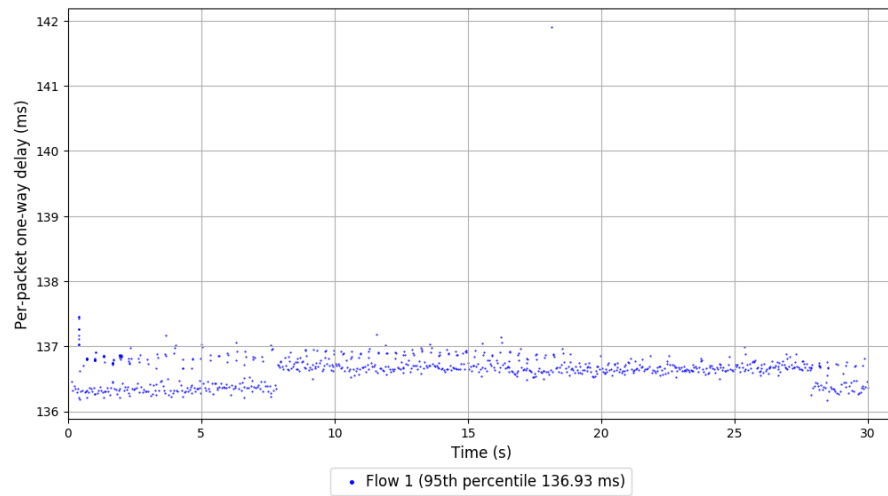
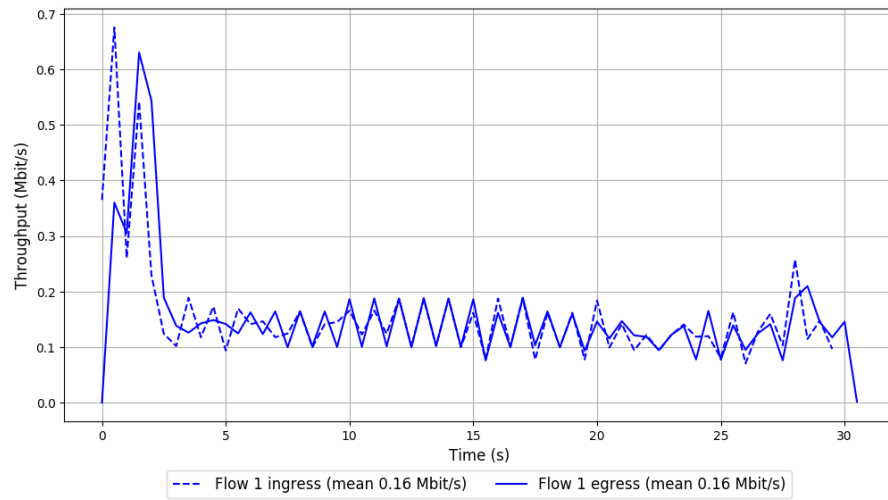


Run 3: Statistics of Sprout

Start at: 2018-08-11 01:32:10
End at: 2018-08-11 01:32:40
Local clock offset: 0.177 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.933 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.933 ms
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

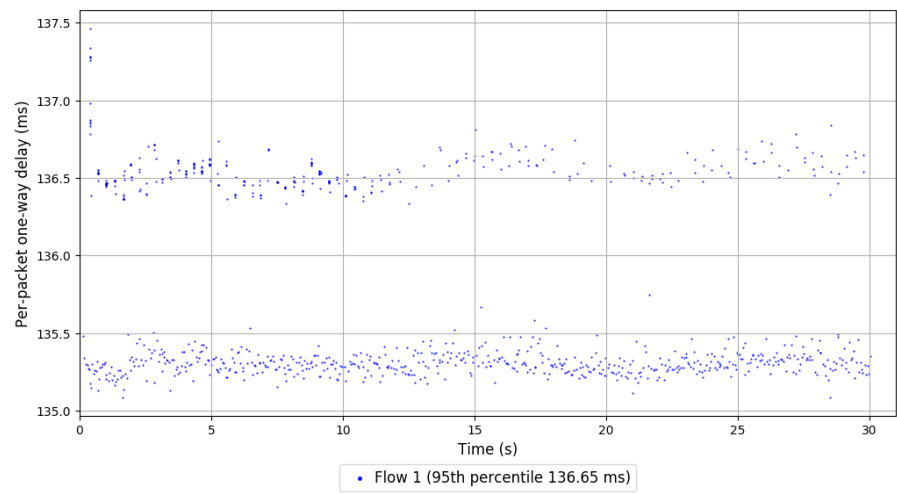
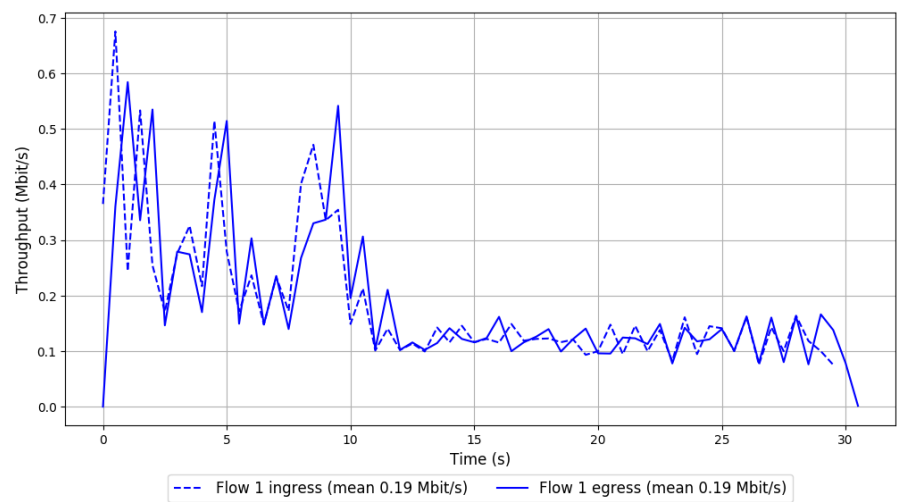


Run 4: Statistics of Sprout

Start at: 2018-08-11 01:55:46
End at: 2018-08-11 01:56:16
Local clock offset: 0.153 ms
Remote clock offset: -0.565 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.647 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.647 ms
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-08-11 02:19:16

End at: 2018-08-11 02:19:46

Local clock offset: 0.248 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-08-11 06:17:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.203 ms

Loss rate: 0.00%

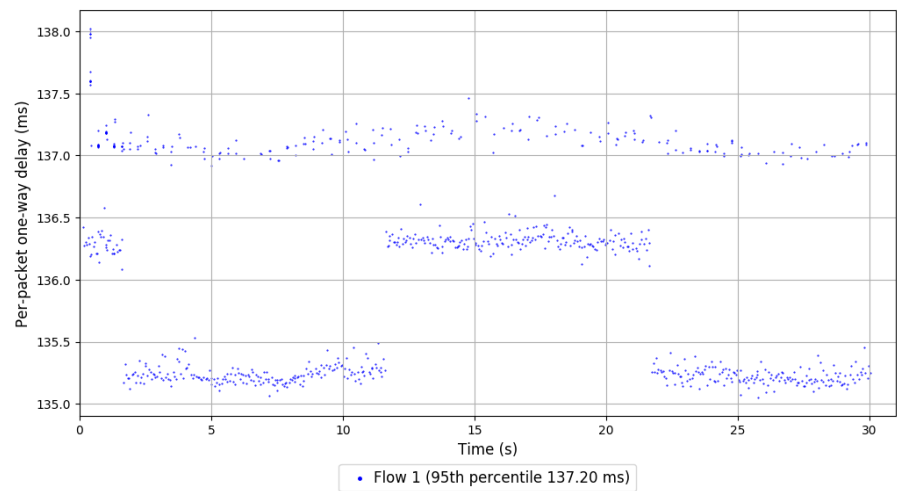
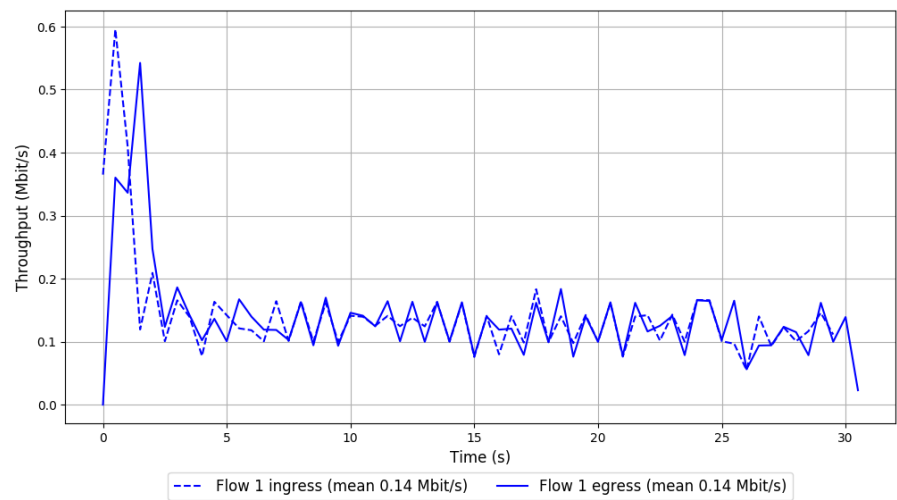
-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 137.203 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

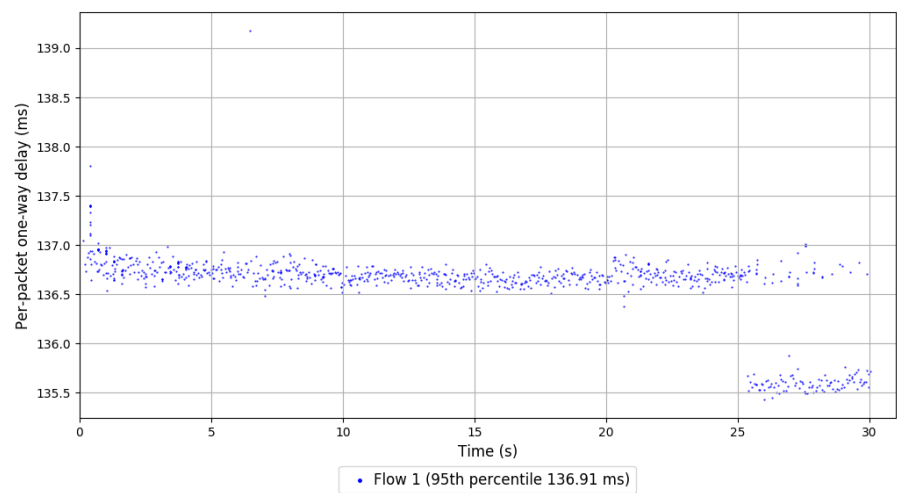
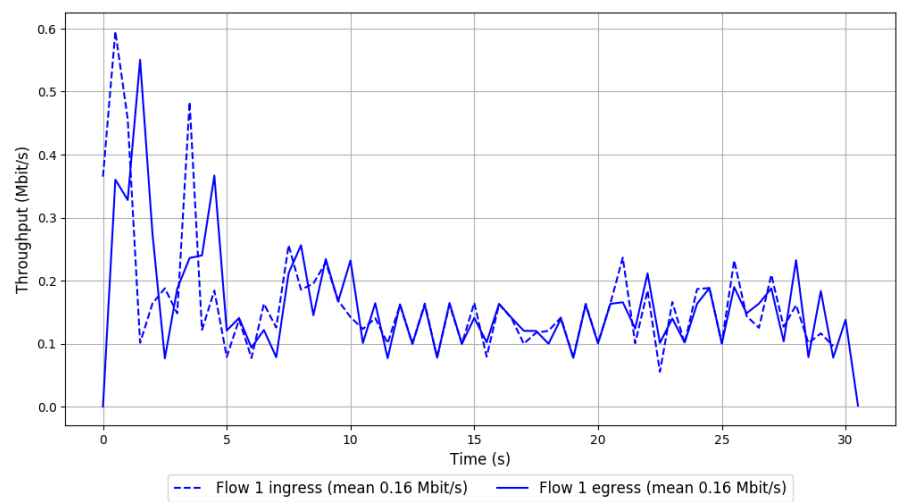


Run 6: Statistics of Sprout

Start at: 2018-08-11 02:42:43
End at: 2018-08-11 02:43:13
Local clock offset: 0.339 ms
Remote clock offset: -0.129 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.911 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.911 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

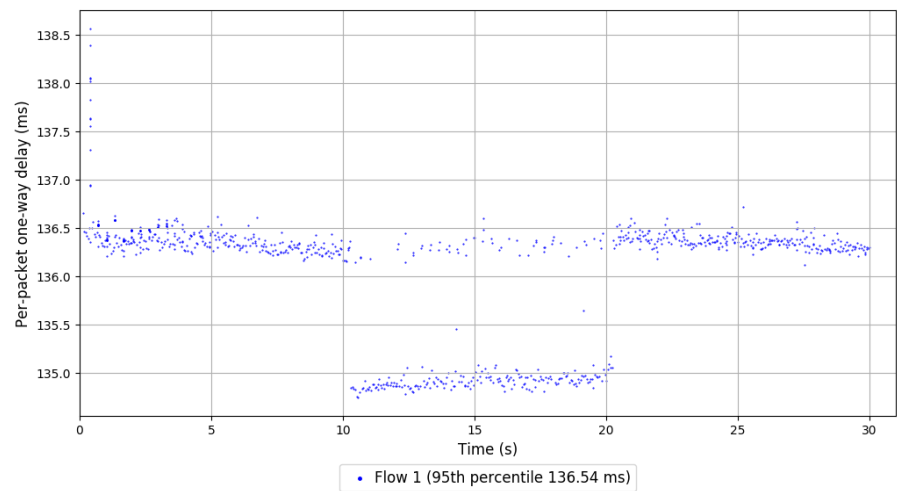
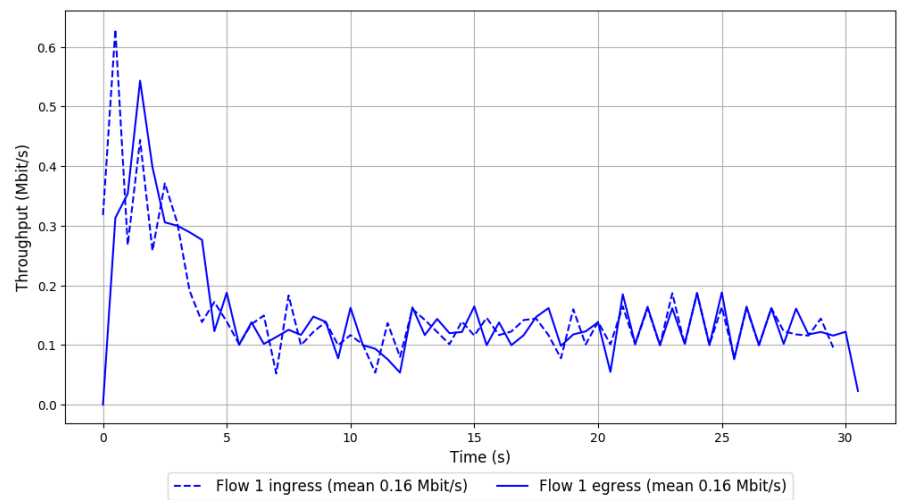


Run 7: Statistics of Sprout

Start at: 2018-08-11 03:06:09
End at: 2018-08-11 03:06:39
Local clock offset: 0.281 ms
Remote clock offset: -0.472 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.537 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.537 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

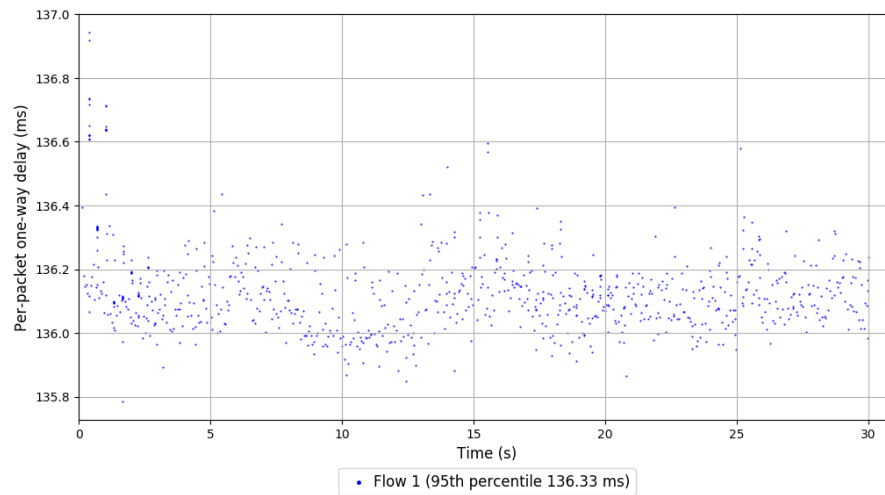
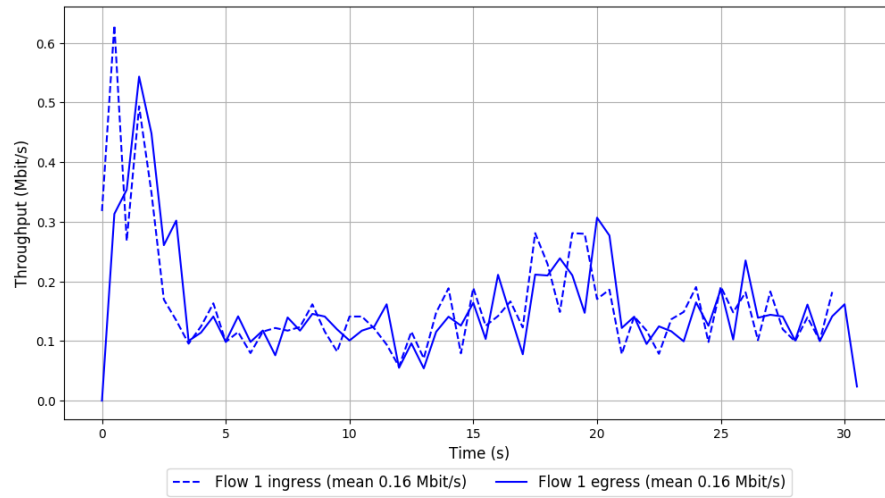


Run 8: Statistics of Sprout

Start at: 2018-08-11 03:29:45
End at: 2018-08-11 03:30:15
Local clock offset: 0.274 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

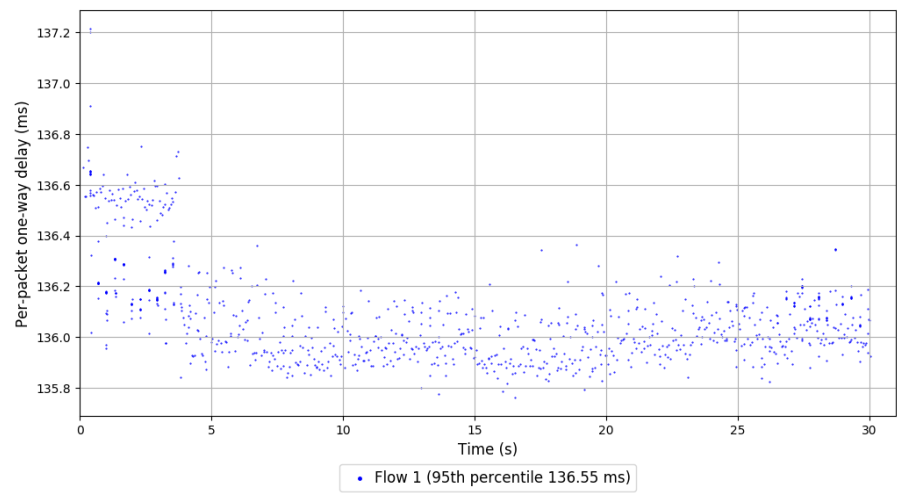
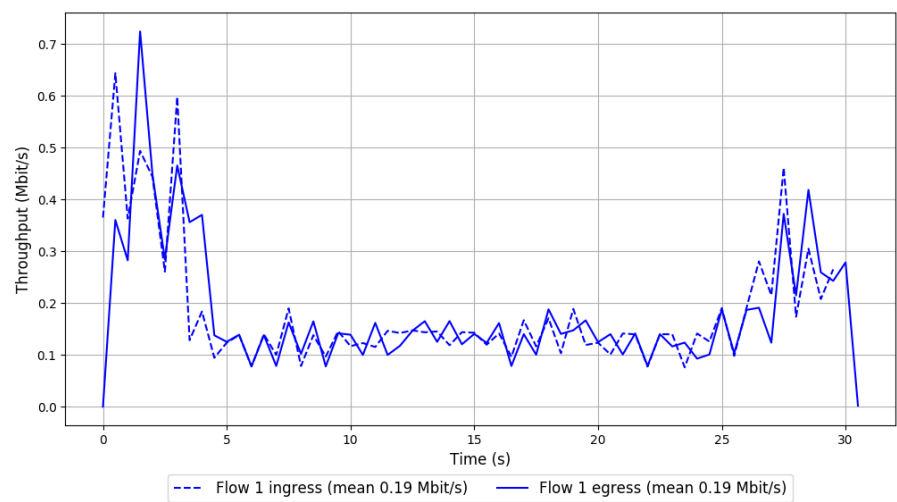


Run 9: Statistics of Sprout

Start at: 2018-08-11 03:52:55
End at: 2018-08-11 03:53:25
Local clock offset: 0.348 ms
Remote clock offset: -0.169 ms

Below is generated by plot.py at 2018-08-11 06:17:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.554 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 136.554 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-08-11 04:16:44

End at: 2018-08-11 04:17:14

Local clock offset: 0.443 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-08-11 06:17:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.660 ms

Loss rate: 0.00%

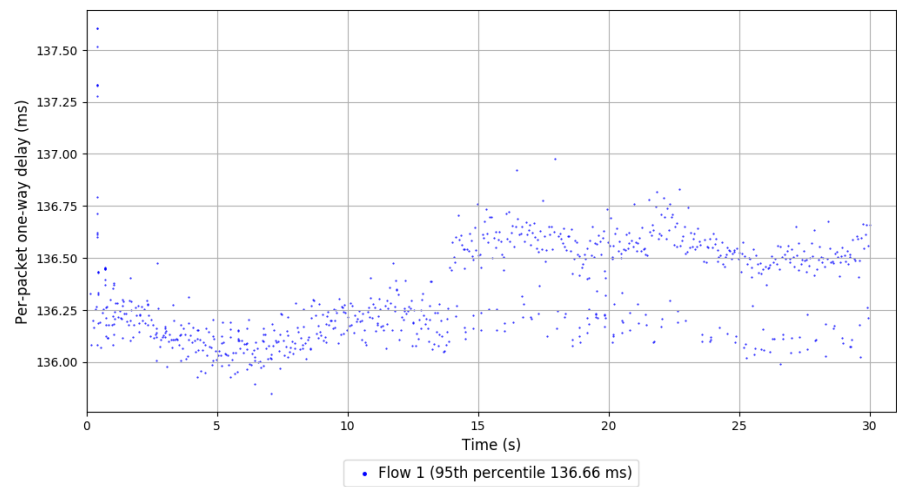
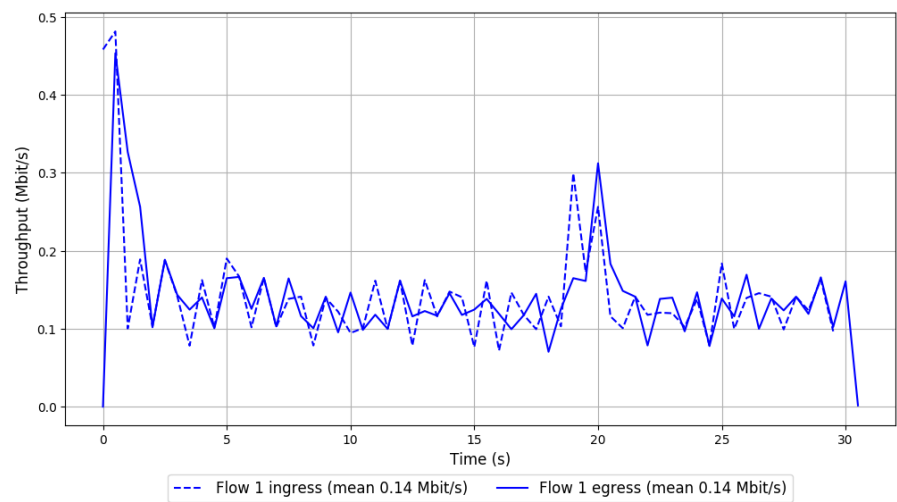
-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.660 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

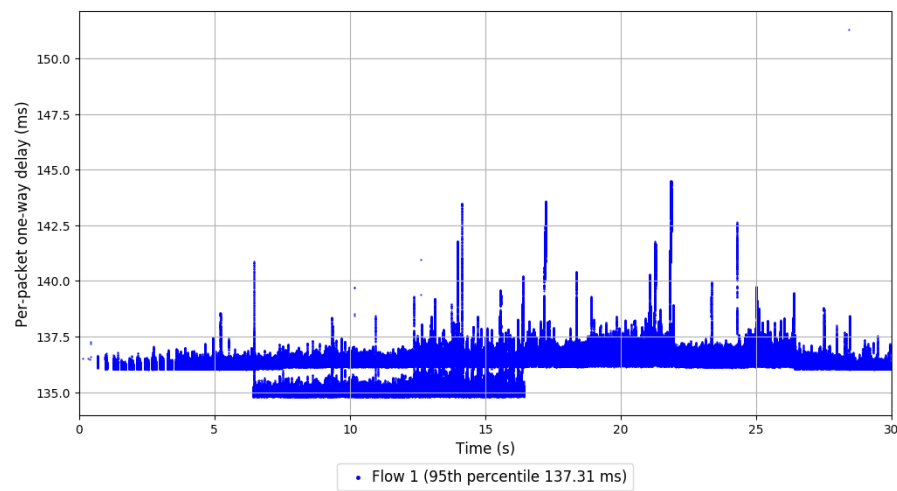
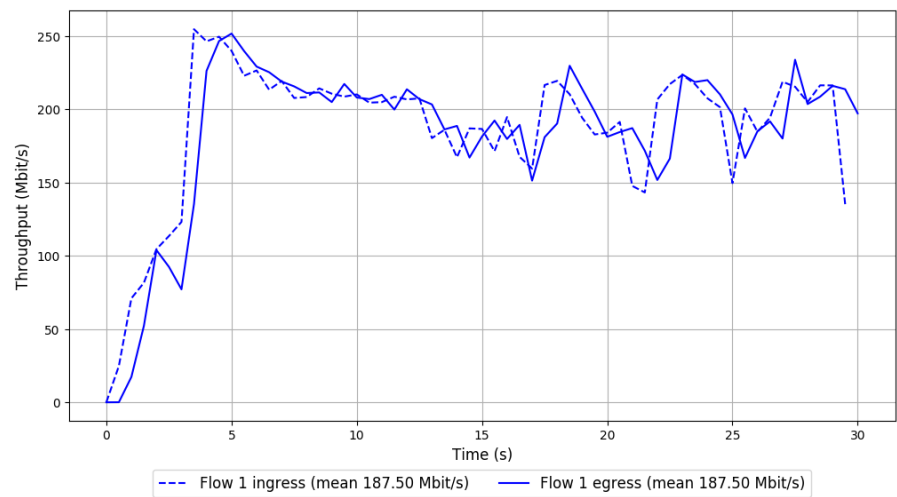


Run 1: Statistics of TaoVA-100x

Start at: 2018-08-11 00:36:01
End at: 2018-08-11 00:36:31
Local clock offset: -0.117 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-08-11 06:17:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 187.50 Mbit/s
95th percentile per-packet one-way delay: 137.307 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 187.50 Mbit/s
95th percentile per-packet one-way delay: 137.307 ms
Loss rate: 0.00%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-08-11 00:59:42

End at: 2018-08-11 01:00:12

Local clock offset: 0.399 ms

Remote clock offset: -0.275 ms

Below is generated by plot.py at 2018-08-11 06:17:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 136.385 ms

Loss rate: 0.00%

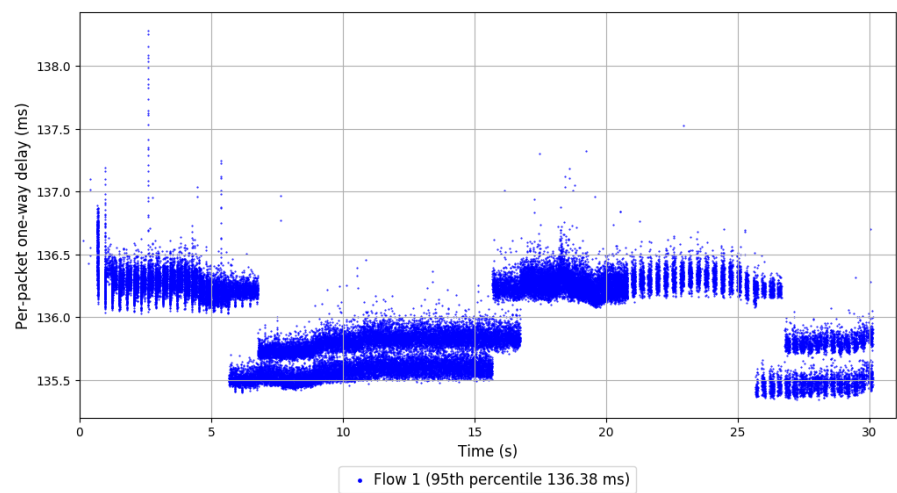
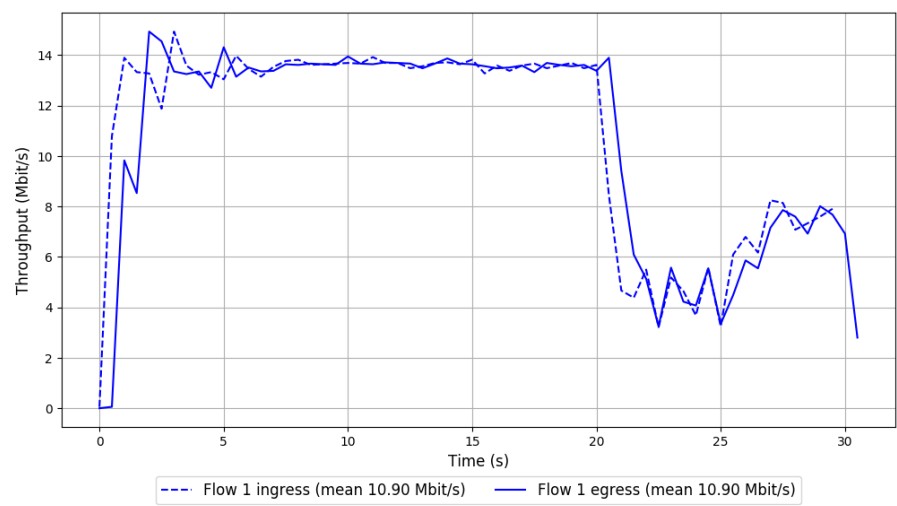
-- Flow 1:

Average throughput: 10.90 Mbit/s

95th percentile per-packet one-way delay: 136.385 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-11 01:22:47

End at: 2018-08-11 01:23:17

Local clock offset: 0.269 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-08-11 06:17:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.52 Mbit/s

95th percentile per-packet one-way delay: 137.102 ms

Loss rate: 0.00%

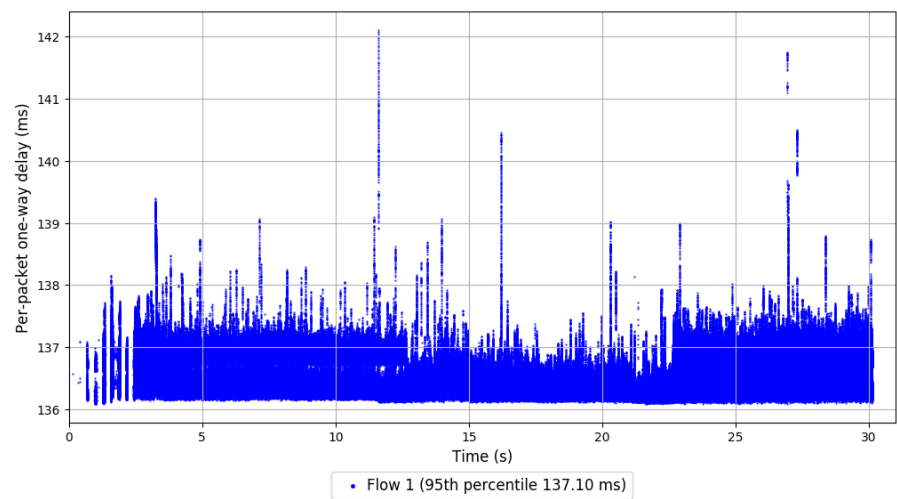
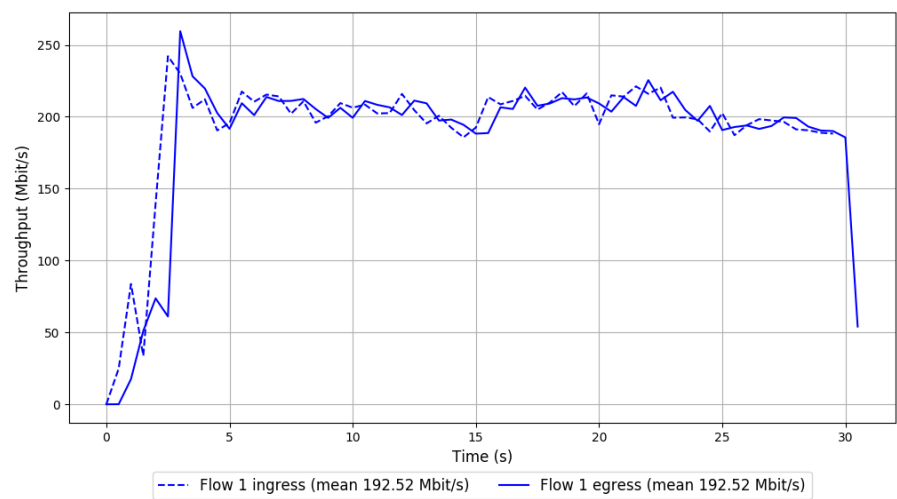
-- Flow 1:

Average throughput: 192.52 Mbit/s

95th percentile per-packet one-way delay: 137.102 ms

Loss rate: 0.00%

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

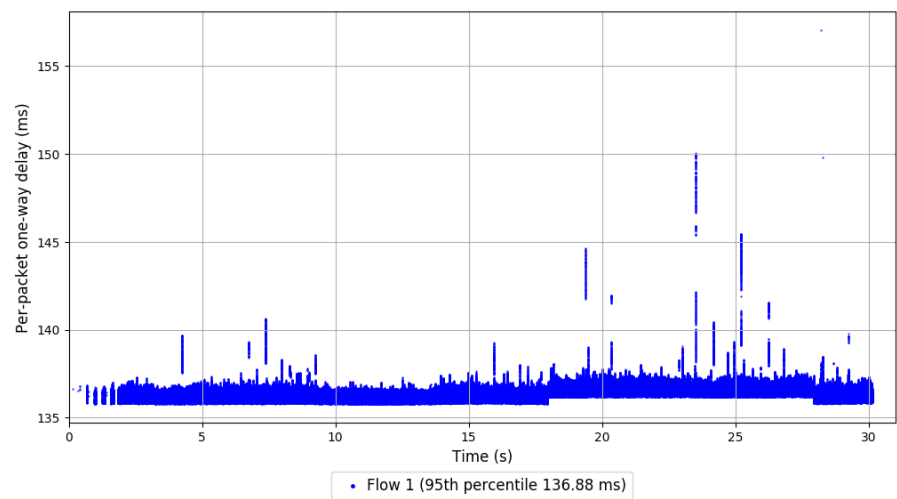
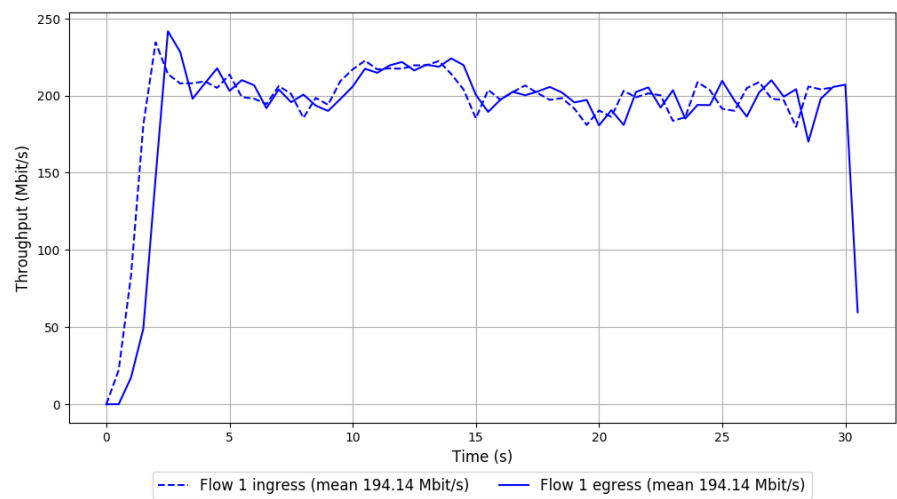


Run 4: Statistics of TaoVA-100x

Start at: 2018-08-11 01:46:11
End at: 2018-08-11 01:46:41
Local clock offset: -0.031 ms
Remote clock offset: -0.461 ms

Below is generated by plot.py at 2018-08-11 06:17:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 194.14 Mbit/s
95th percentile per-packet one-way delay: 136.883 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 194.14 Mbit/s
95th percentile per-packet one-way delay: 136.883 ms
Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-08-11 02:09:59

End at: 2018-08-11 02:10:29

Local clock offset: 0.025 ms

Remote clock offset: 0.213 ms

Below is generated by plot.py at 2018-08-11 06:17:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 137.359 ms

Loss rate: 0.00%

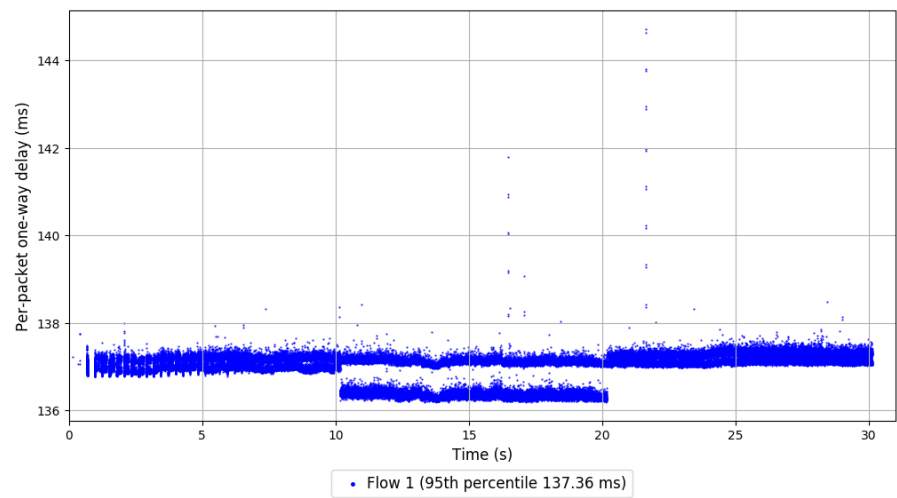
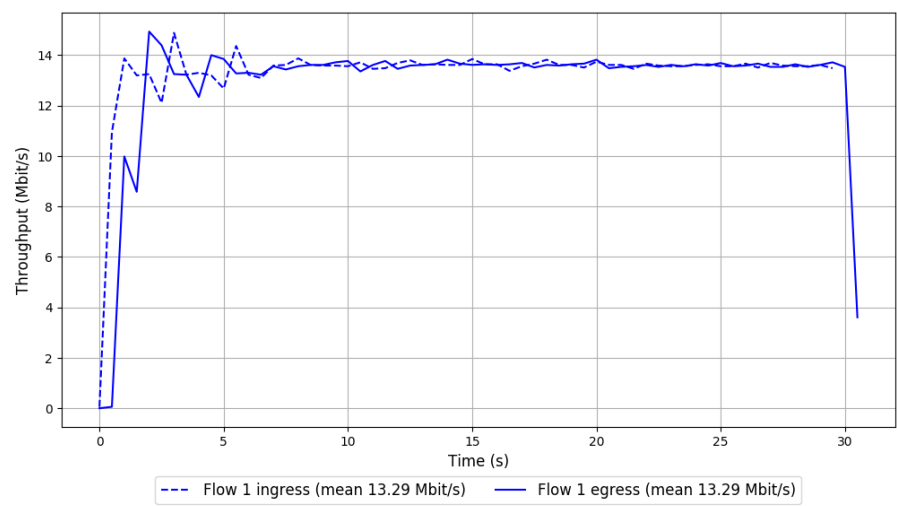
-- Flow 1:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 137.359 ms

Loss rate: 0.00%

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

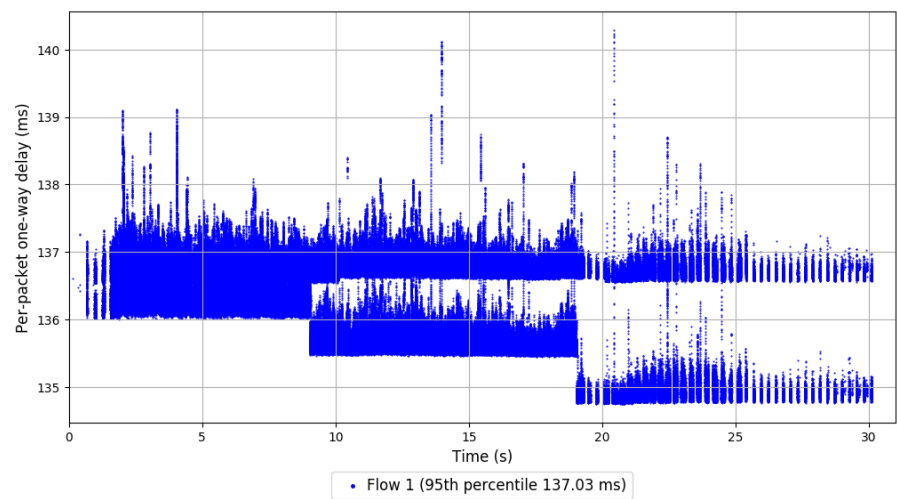
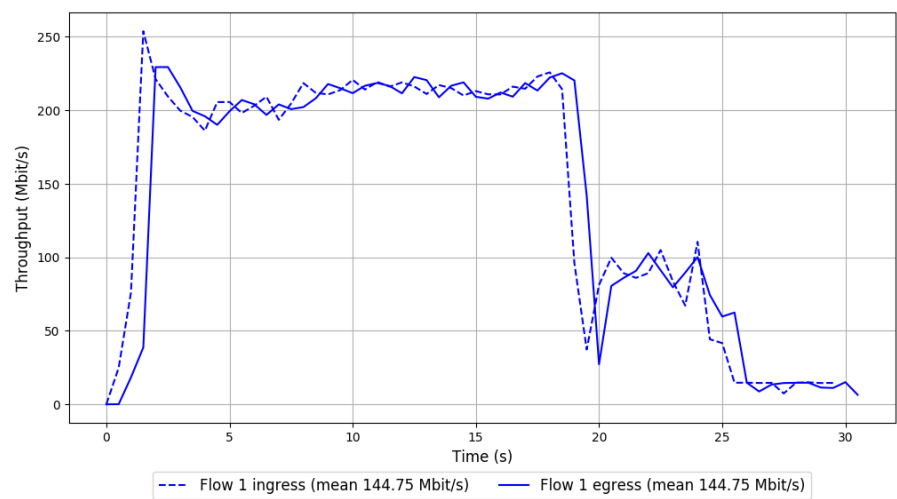


Run 6: Statistics of TaoVA-100x

Start at: 2018-08-11 02:33:19
End at: 2018-08-11 02:33:49
Local clock offset: 0.079 ms
Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-08-11 06:17:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 144.75 Mbit/s
95th percentile per-packet one-way delay: 137.030 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 144.75 Mbit/s
95th percentile per-packet one-way delay: 137.030 ms
Loss rate: 0.00%

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

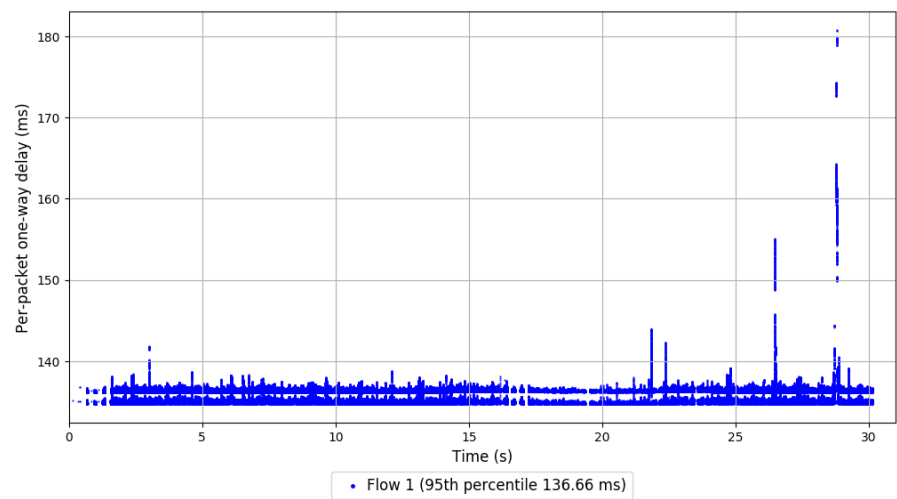
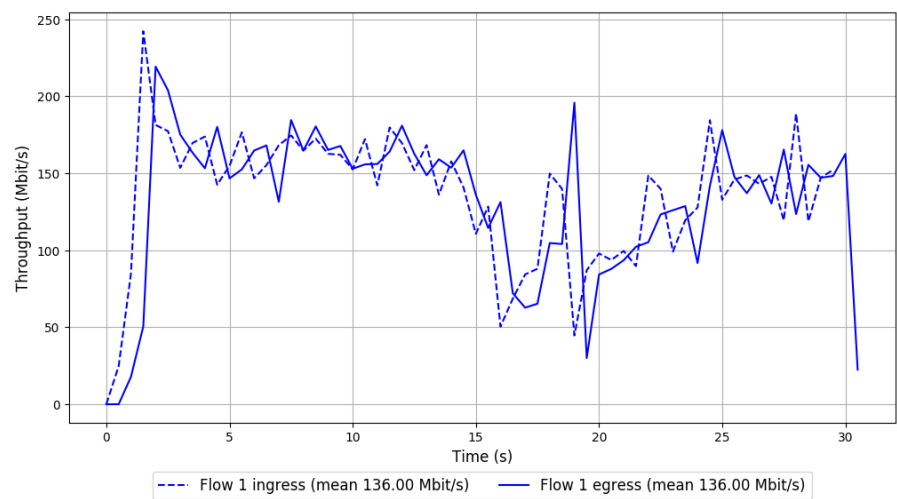


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-11 02:56:35
End at: 2018-08-11 02:57:05
Local clock offset: 0.415 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-08-11 06:17:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.00 Mbit/s
95th percentile per-packet one-way delay: 136.656 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 136.00 Mbit/s
95th percentile per-packet one-way delay: 136.656 ms
Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-08-11 03:20:10

End at: 2018-08-11 03:20:40

Local clock offset: 0.224 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-08-11 06:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 137.269 ms

Loss rate: 0.00%

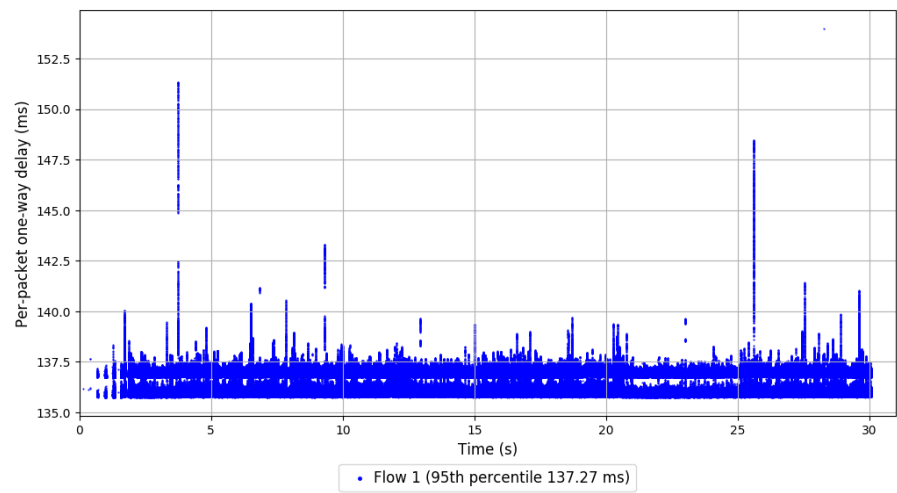
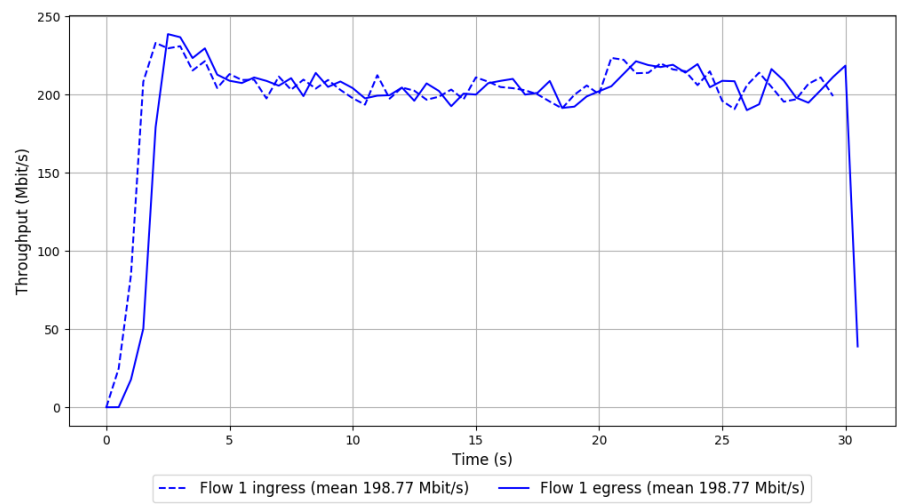
-- Flow 1:

Average throughput: 198.77 Mbit/s

95th percentile per-packet one-way delay: 137.269 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-08-11 03:43:48

End at: 2018-08-11 03:44:18

Local clock offset: 0.759 ms

Remote clock offset: -0.518 ms

Below is generated by plot.py at 2018-08-11 06:19:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 135.721 ms

Loss rate: 0.00%

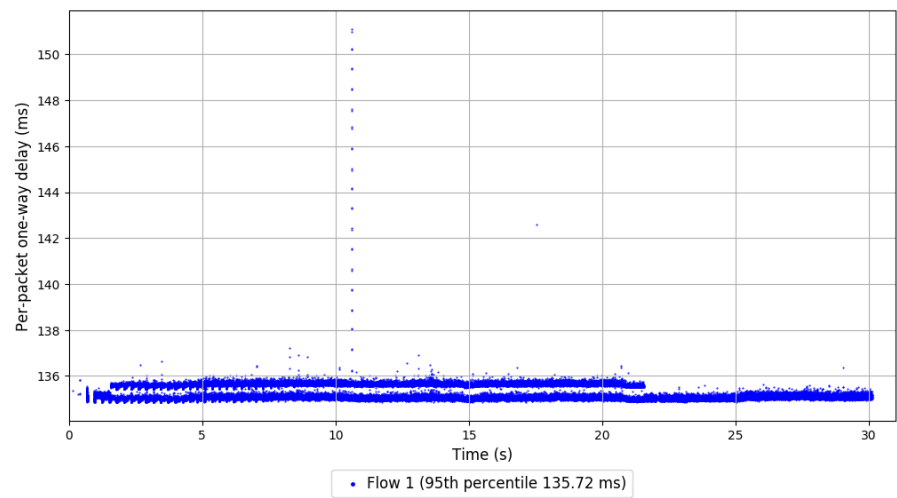
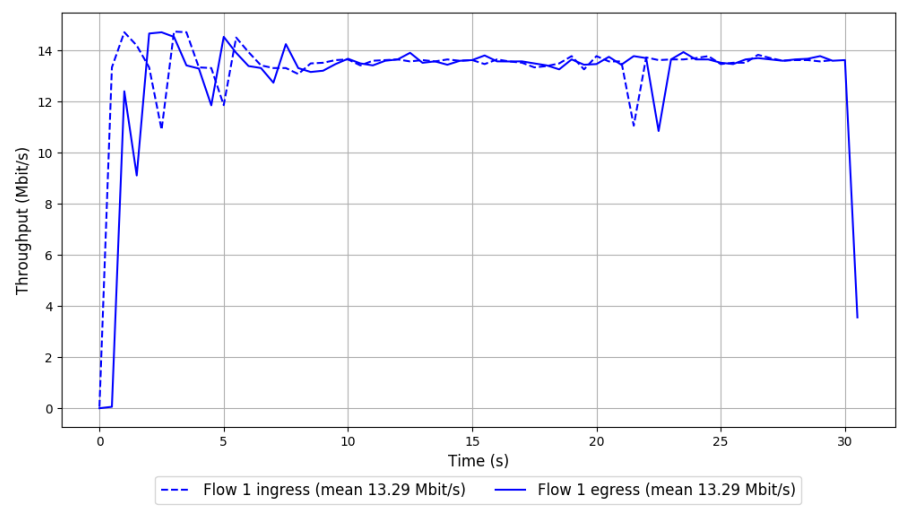
-- Flow 1:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 135.721 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-11 04:07:21

End at: 2018-08-11 04:07:51

Local clock offset: 0.527 ms

Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 155.16 Mbit/s

95th percentile per-packet one-way delay: 136.336 ms

Loss rate: 0.00%

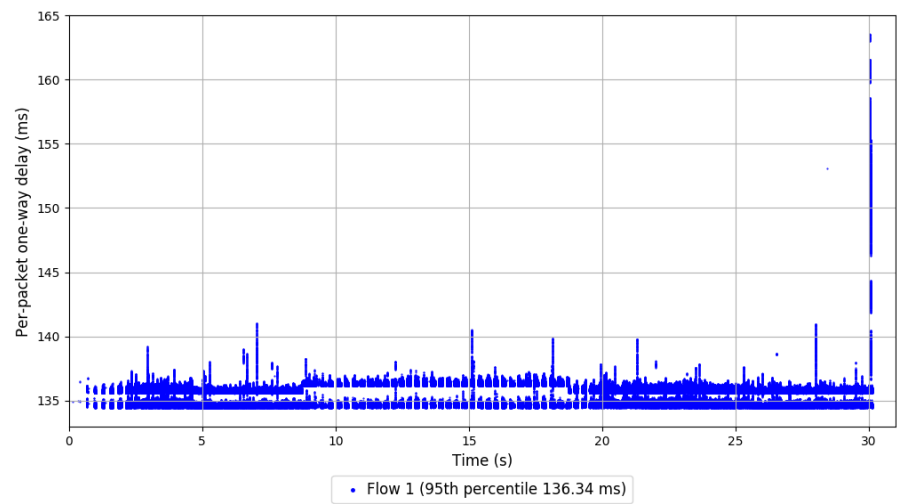
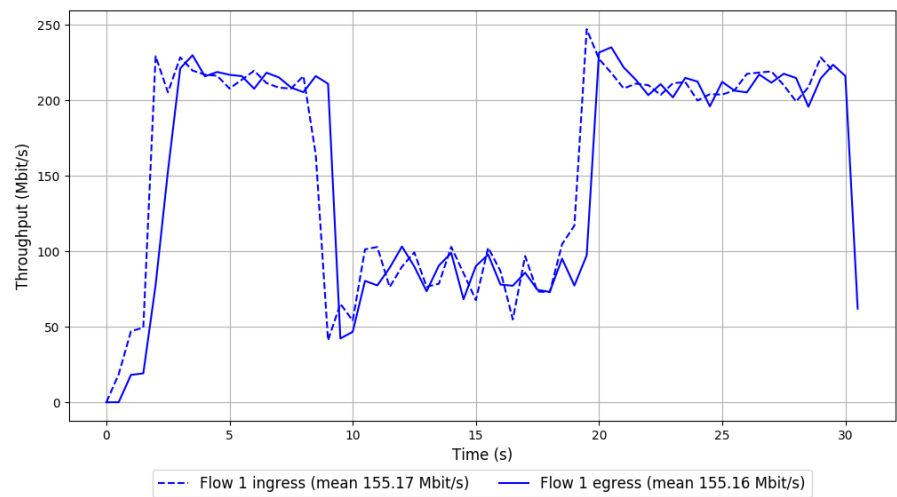
-- Flow 1:

Average throughput: 155.16 Mbit/s

95th percentile per-packet one-way delay: 136.336 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-08-11 00:46:42

End at: 2018-08-11 00:47:12

Local clock offset: 0.2 ms

Remote clock offset: 0.078 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 138.080 ms

Loss rate: 0.00%

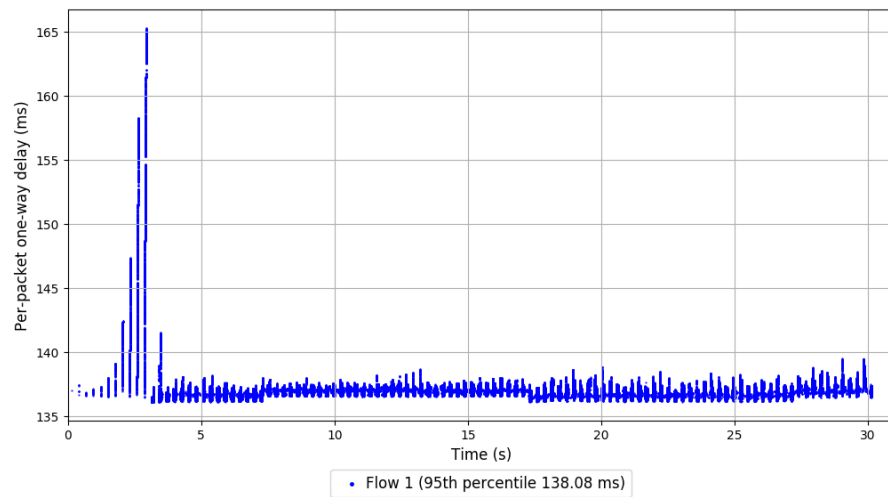
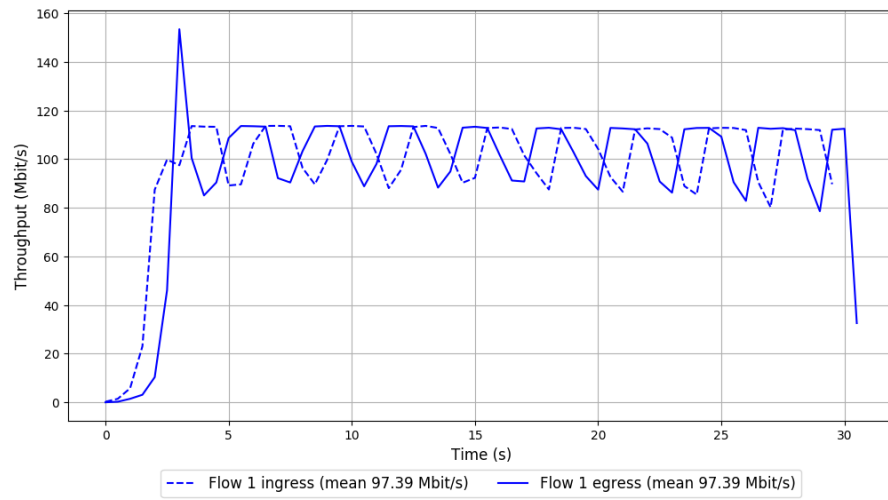
-- Flow 1:

Average throughput: 97.39 Mbit/s

95th percentile per-packet one-way delay: 138.080 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-08-11 01:09:59

End at: 2018-08-11 01:10:29

Local clock offset: 0.28 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 138.553 ms

Loss rate: 0.00%

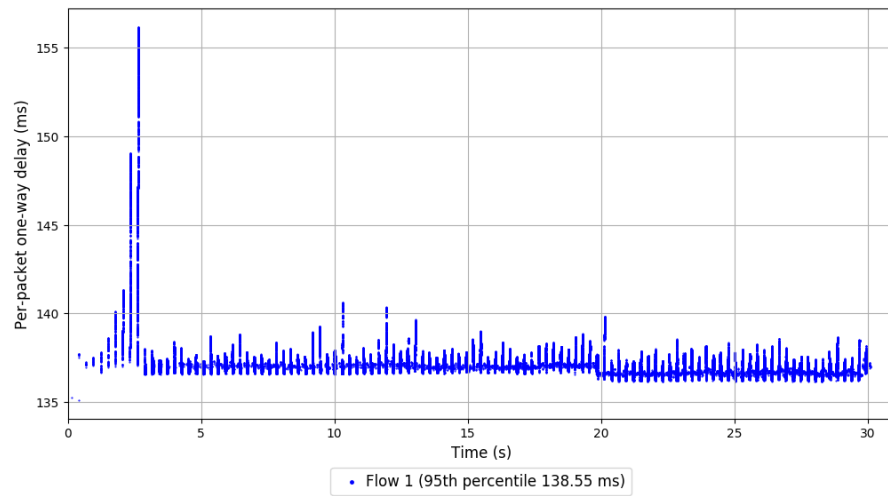
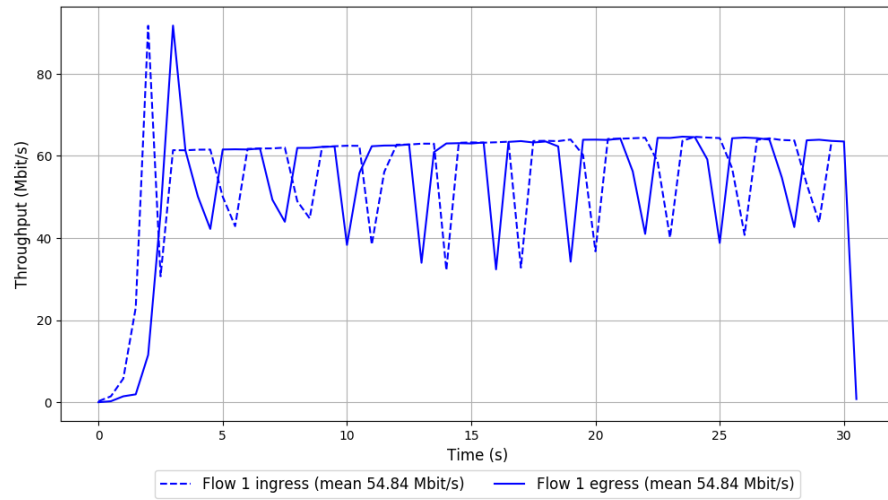
-- Flow 1:

Average throughput: 54.84 Mbit/s

95th percentile per-packet one-way delay: 138.553 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

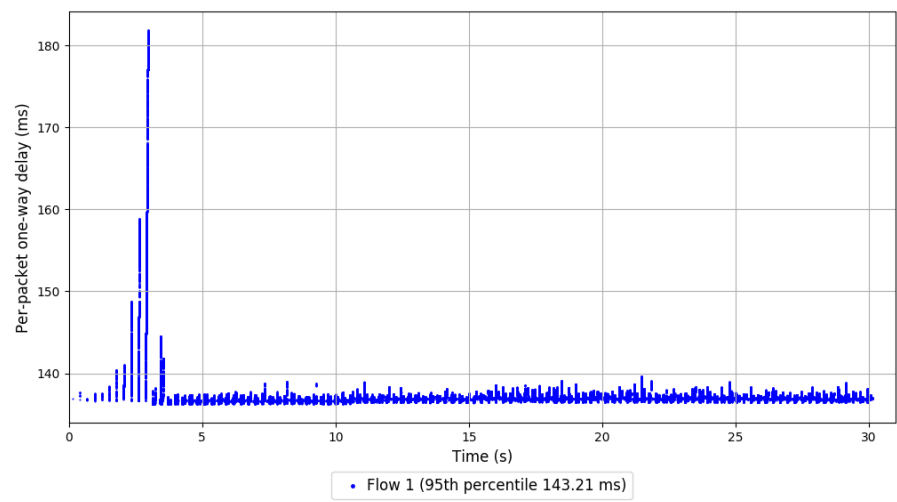
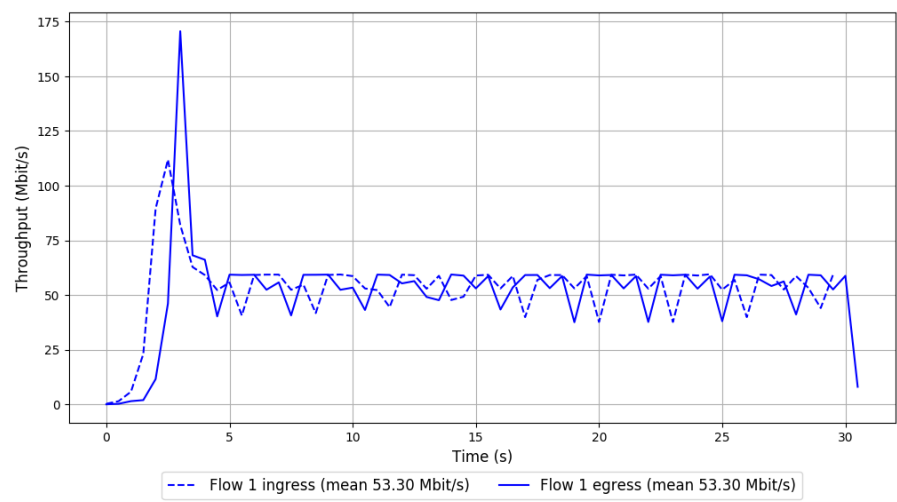


Run 3: Statistics of TCP Vegas

Start at: 2018-08-11 01:33:19
End at: 2018-08-11 01:33:49
Local clock offset: 0.265 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-08-11 06:22:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 143.208 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 53.30 Mbit/s
95th percentile per-packet one-way delay: 143.208 ms
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-08-11 01:56:54

End at: 2018-08-11 01:57:24

Local clock offset: 0.295 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.13 Mbit/s

95th percentile per-packet one-way delay: 138.486 ms

Loss rate: 0.00%

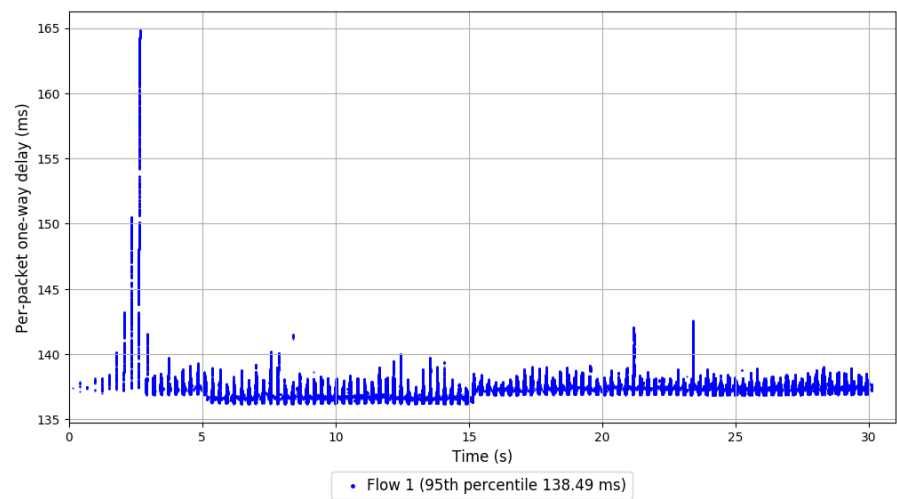
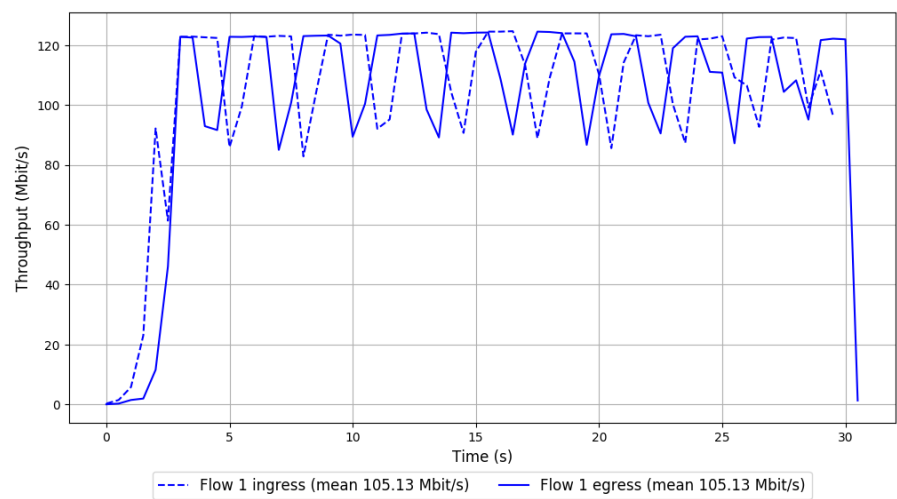
-- Flow 1:

Average throughput: 105.13 Mbit/s

95th percentile per-packet one-way delay: 138.486 ms

Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-08-11 02:20:25

End at: 2018-08-11 02:20:55

Local clock offset: 0.343 ms

Remote clock offset: 0.131 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 139.117 ms

Loss rate: 0.00%

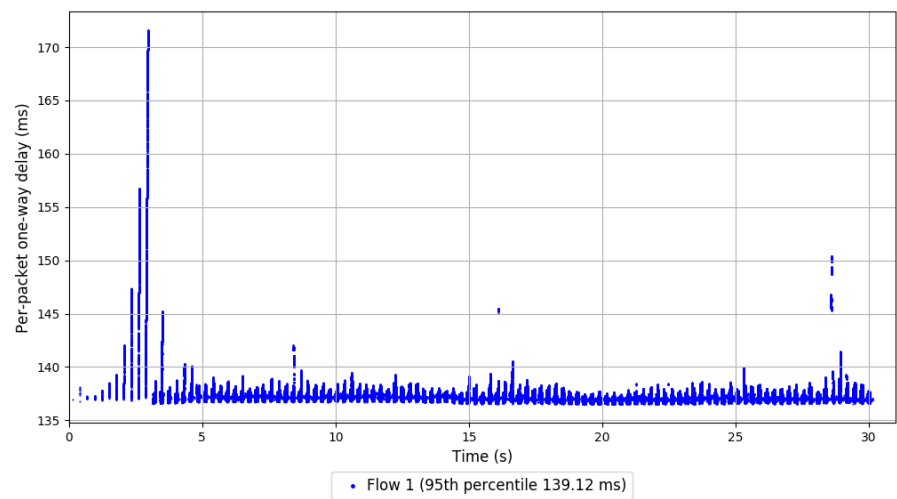
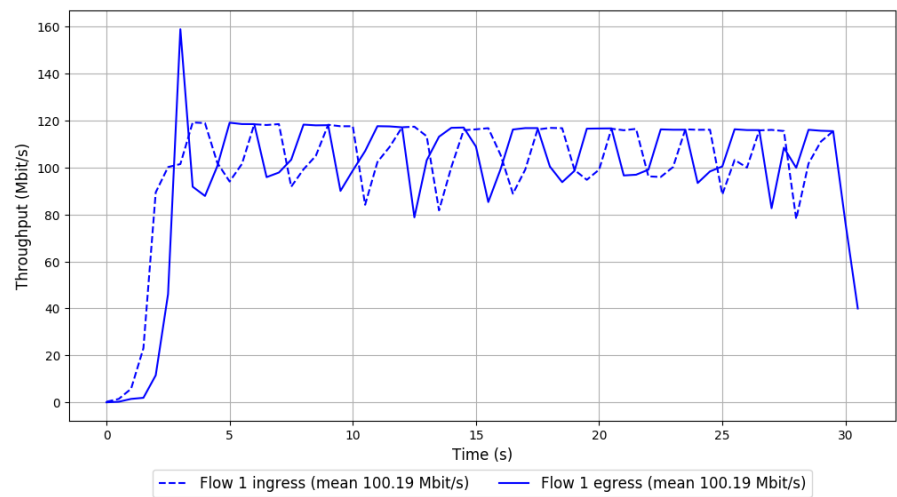
-- Flow 1:

Average throughput: 100.19 Mbit/s

95th percentile per-packet one-way delay: 139.117 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-08-11 02:43:51

End at: 2018-08-11 02:44:21

Local clock offset: 0.336 ms

Remote clock offset: 0.277 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 141.721 ms

Loss rate: 0.00%

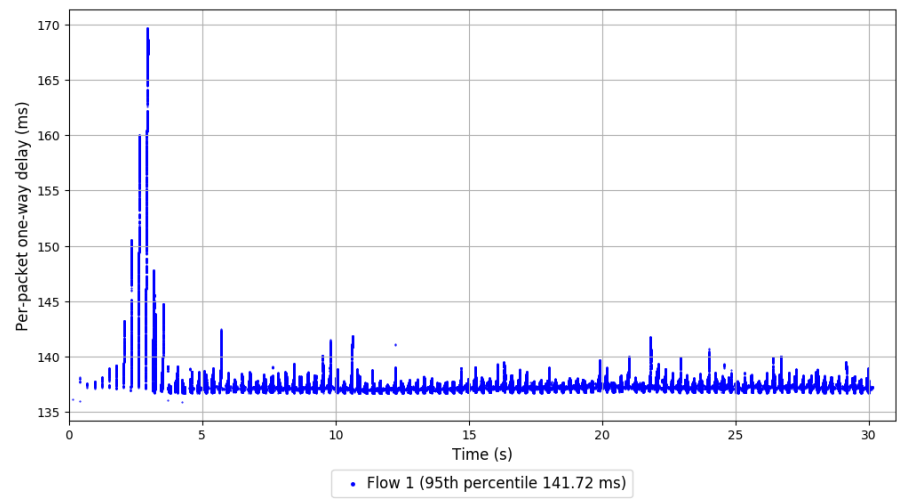
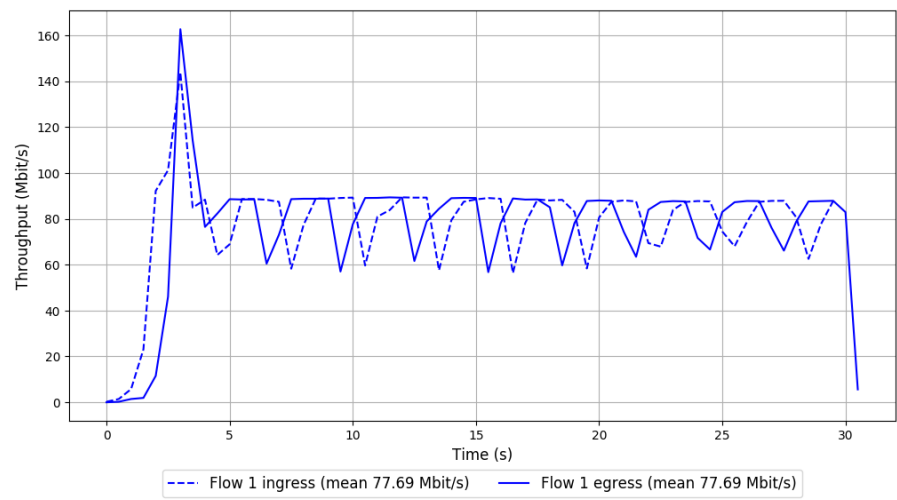
-- Flow 1:

Average throughput: 77.69 Mbit/s

95th percentile per-packet one-way delay: 141.721 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-08-11 03:07:17

End at: 2018-08-11 03:07:47

Local clock offset: 0.578 ms

Remote clock offset: 0.217 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 105.15 Mbit/s

95th percentile per-packet one-way delay: 138.419 ms

Loss rate: 0.00%

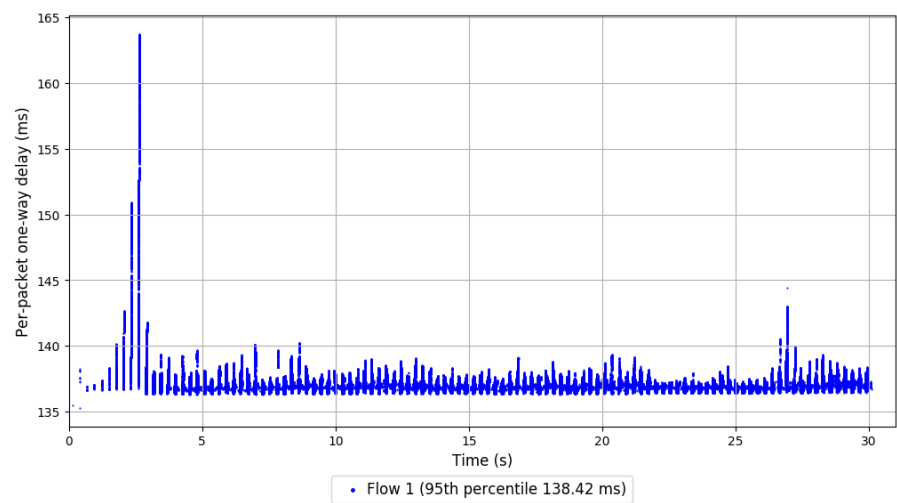
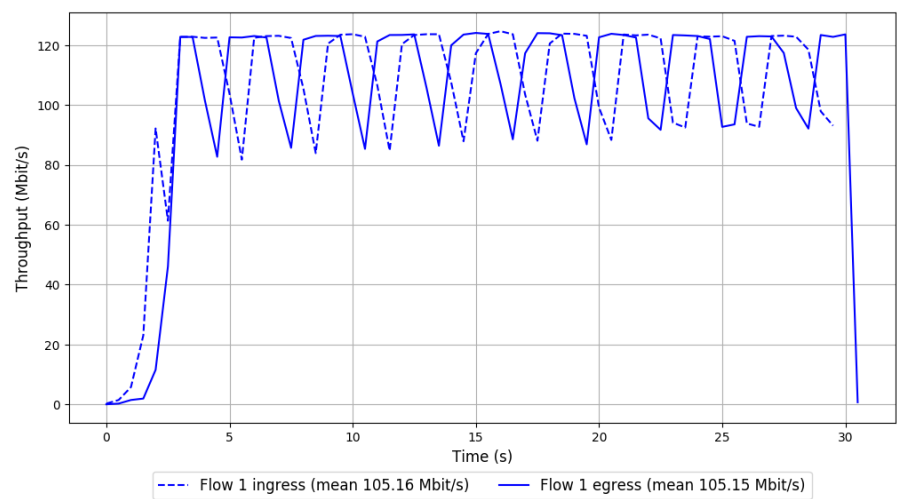
-- Flow 1:

Average throughput: 105.15 Mbit/s

95th percentile per-packet one-way delay: 138.419 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link

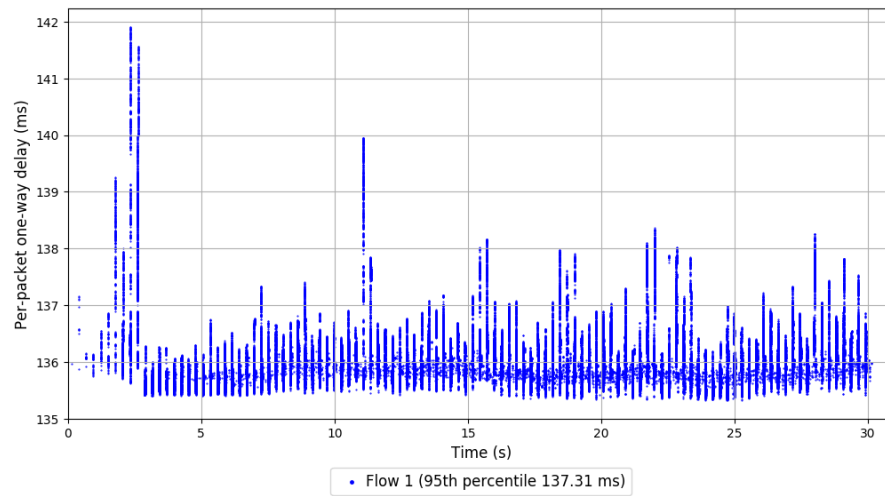
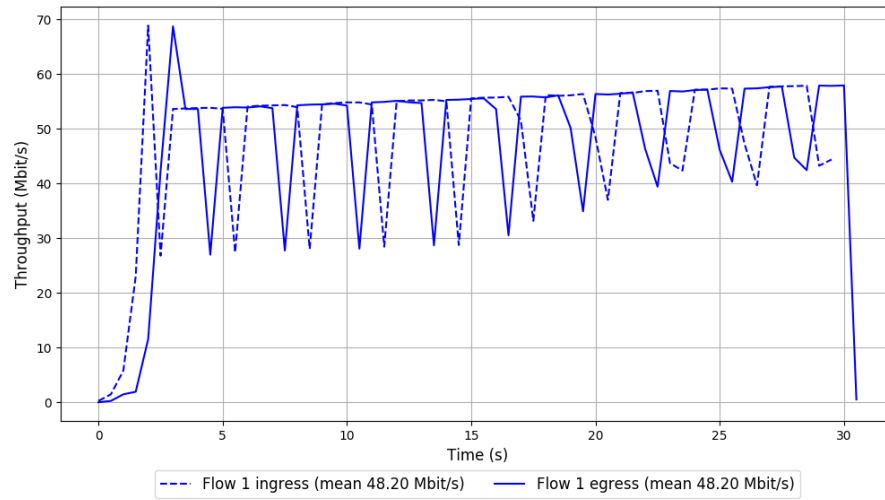


Run 8: Statistics of TCP Vegas

Start at: 2018-08-11 03:30:54
End at: 2018-08-11 03:31:24
Local clock offset: 0.435 ms
Remote clock offset: -0.446 ms

Below is generated by plot.py at 2018-08-11 06:22:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 137.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 137.308 ms
Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-08-11 03:54:04

End at: 2018-08-11 03:54:34

Local clock offset: 0.334 ms

Remote clock offset: 0.282 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.12 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 0.00%

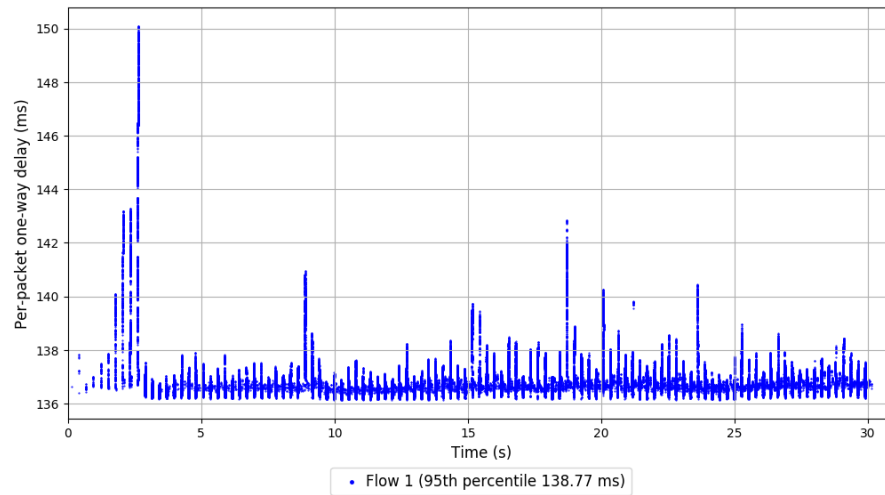
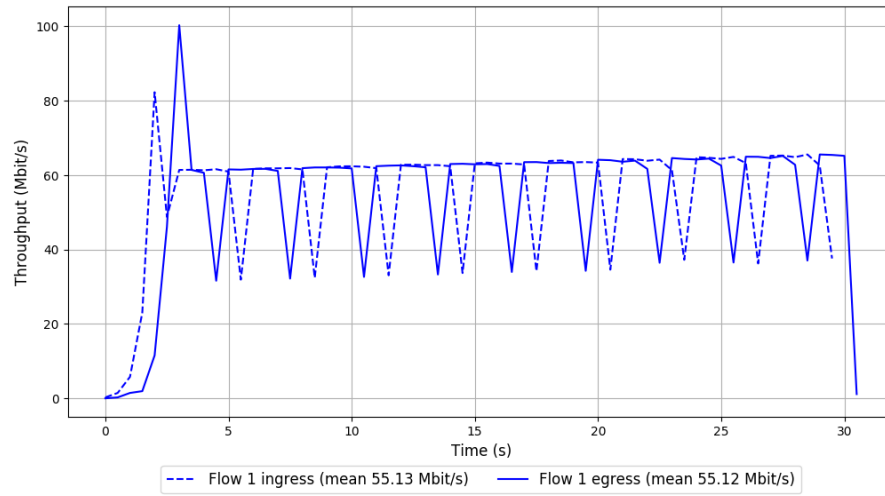
-- Flow 1:

Average throughput: 55.12 Mbit/s

95th percentile per-packet one-way delay: 138.766 ms

Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-08-11 04:17:53

End at: 2018-08-11 04:18:23

Local clock offset: 0.428 ms

Remote clock offset: -0.484 ms

Below is generated by plot.py at 2018-08-11 06:22:07

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 137.431 ms

Loss rate: 0.00%

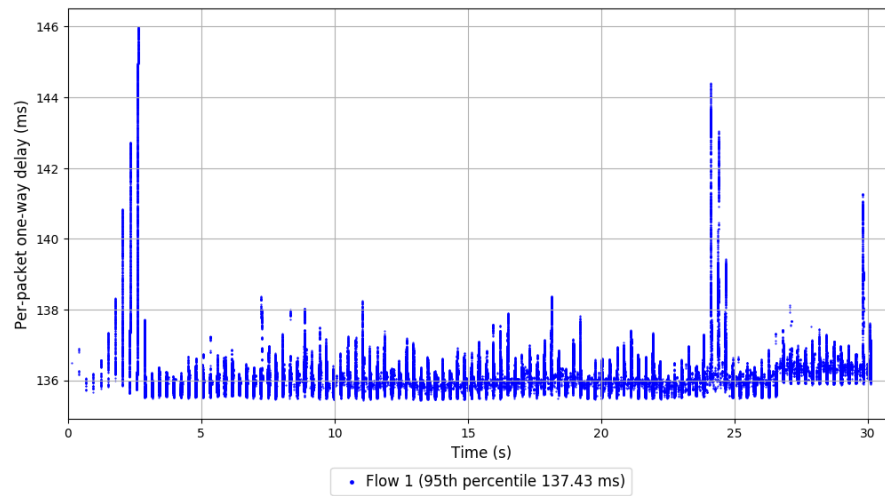
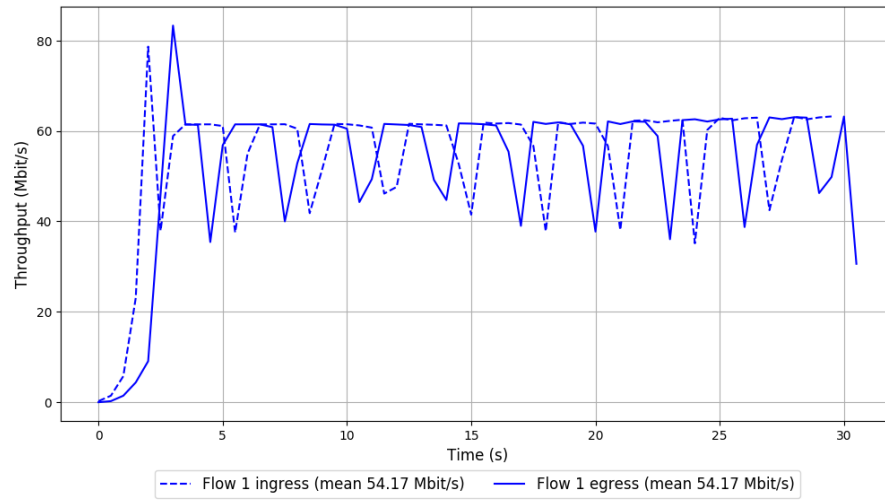
-- Flow 1:

Average throughput: 54.17 Mbit/s

95th percentile per-packet one-way delay: 137.431 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

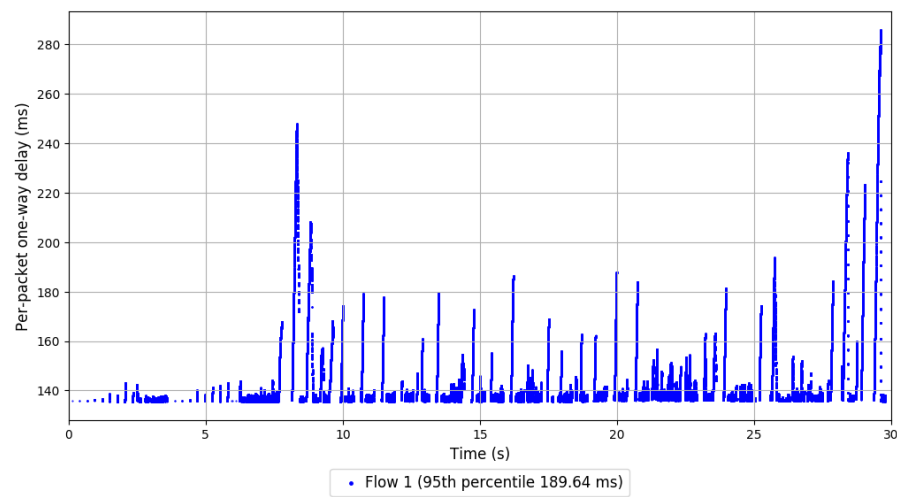
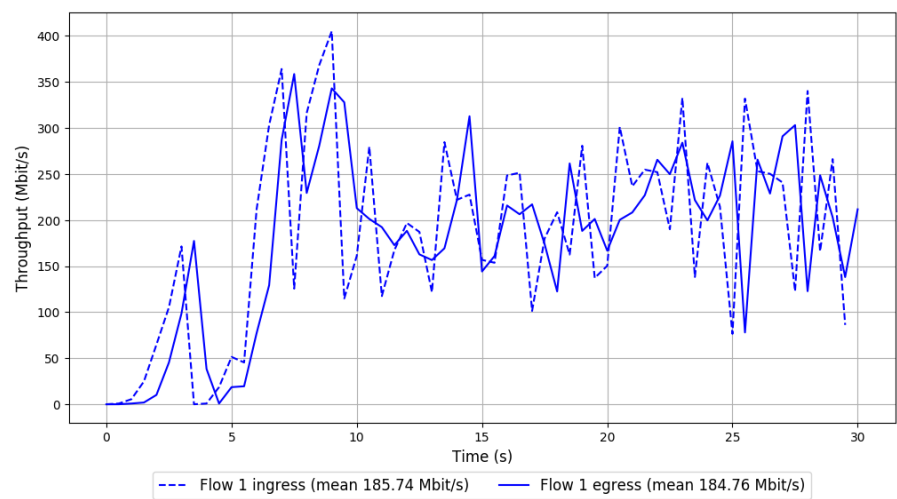


Run 1: Statistics of Verus

Start at: 2018-08-11 00:37:30
End at: 2018-08-11 00:38:00
Local clock offset: 0.124 ms
Remote clock offset: -0.583 ms

Below is generated by plot.py at 2018-08-11 06:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.76 Mbit/s
95th percentile per-packet one-way delay: 189.642 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 184.76 Mbit/s
95th percentile per-packet one-way delay: 189.642 ms
Loss rate: 0.52%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-08-11 01:00:53

End at: 2018-08-11 01:01:23

Local clock offset: -0.126 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-08-11 06:22:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 149.576 ms

Loss rate: 0.00%

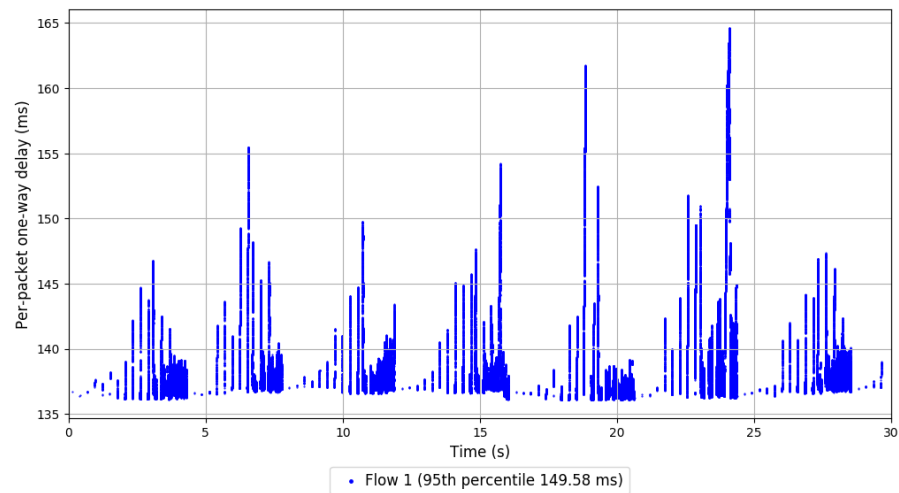
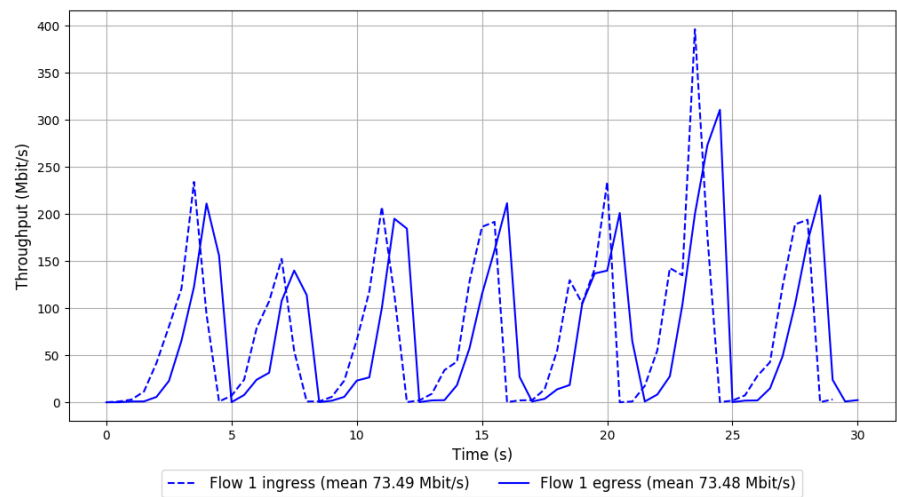
-- Flow 1:

Average throughput: 73.48 Mbit/s

95th percentile per-packet one-way delay: 149.576 ms

Loss rate: 0.00%

Run 2: Report of Verus — Data Link

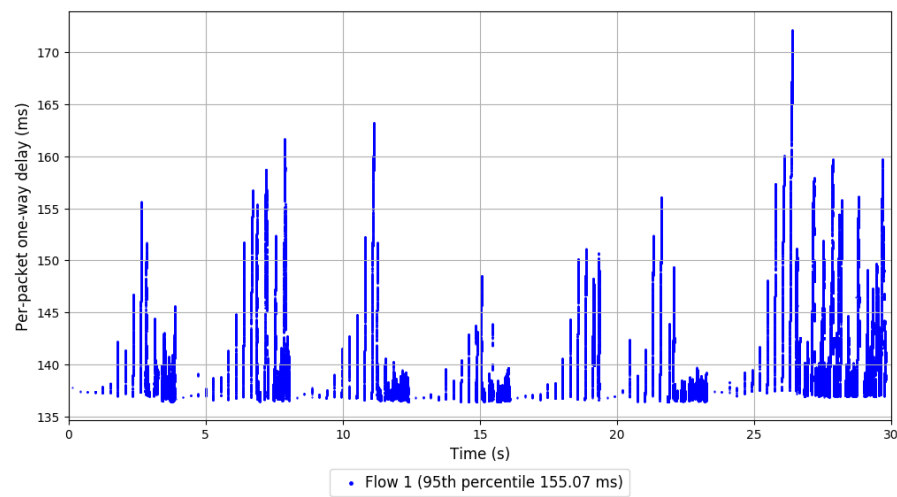
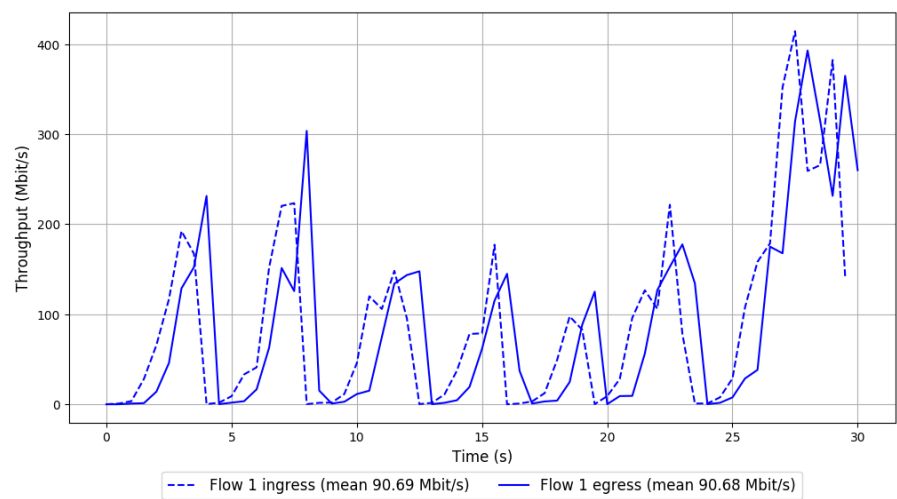


Run 3: Statistics of Verus

Start at: 2018-08-11 01:24:16
End at: 2018-08-11 01:24:46
Local clock offset: -0.041 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-08-11 06:22:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 155.072 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 90.68 Mbit/s
95th percentile per-packet one-way delay: 155.072 ms
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

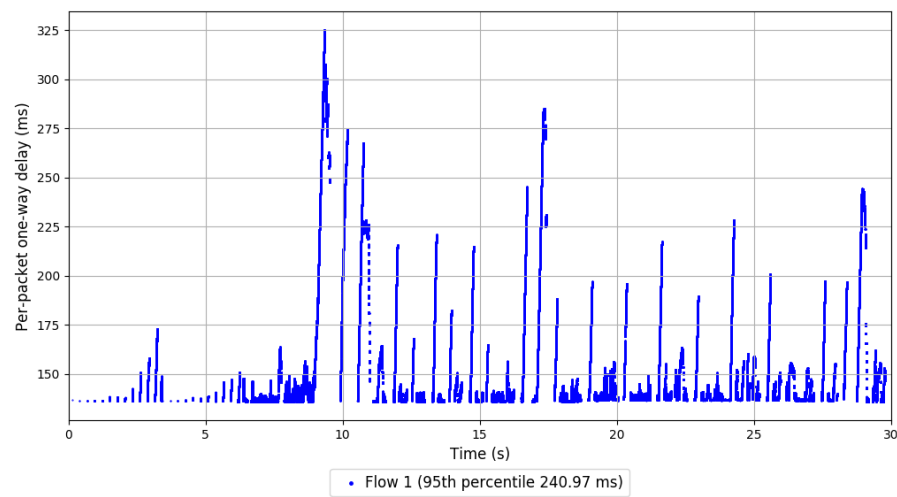
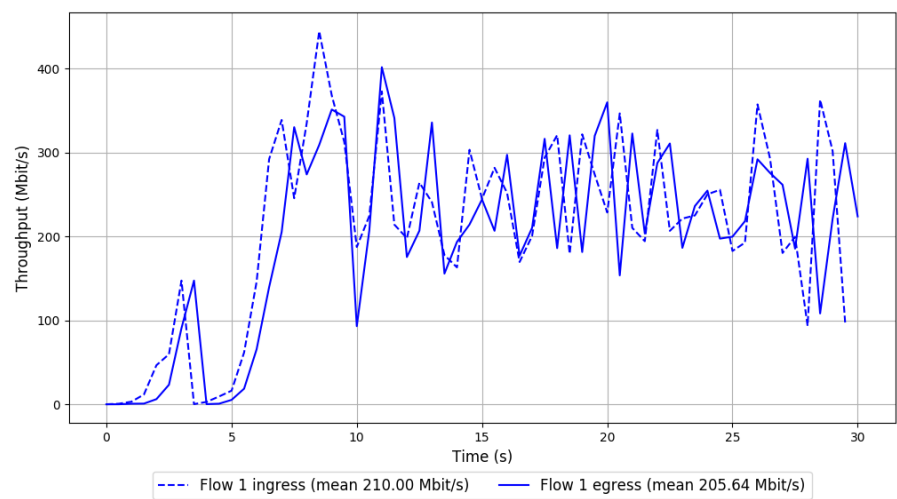


Run 4: Statistics of Verus

Start at: 2018-08-11 01:47:40
End at: 2018-08-11 01:48:10
Local clock offset: 0.282 ms
Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-08-11 06:23:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 205.64 Mbit/s
95th percentile per-packet one-way delay: 240.975 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 205.64 Mbit/s
95th percentile per-packet one-way delay: 240.975 ms
Loss rate: 2.05%

Run 4: Report of Verus — Data Link

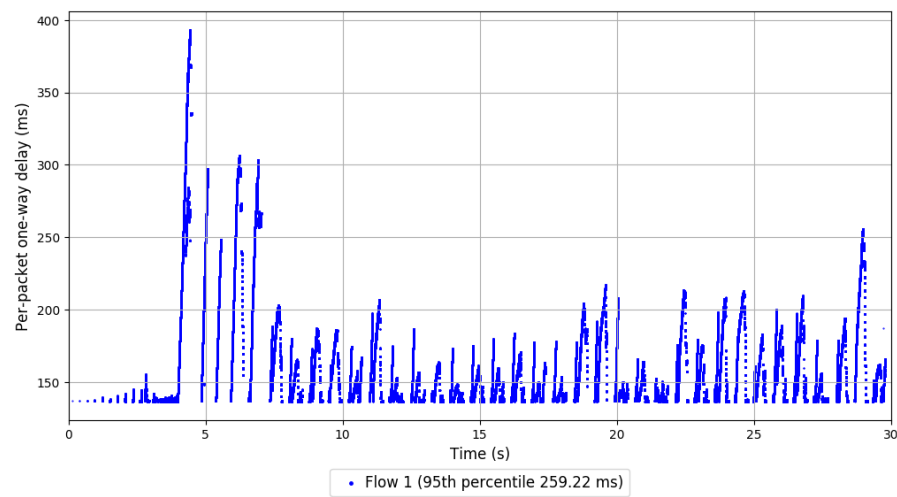
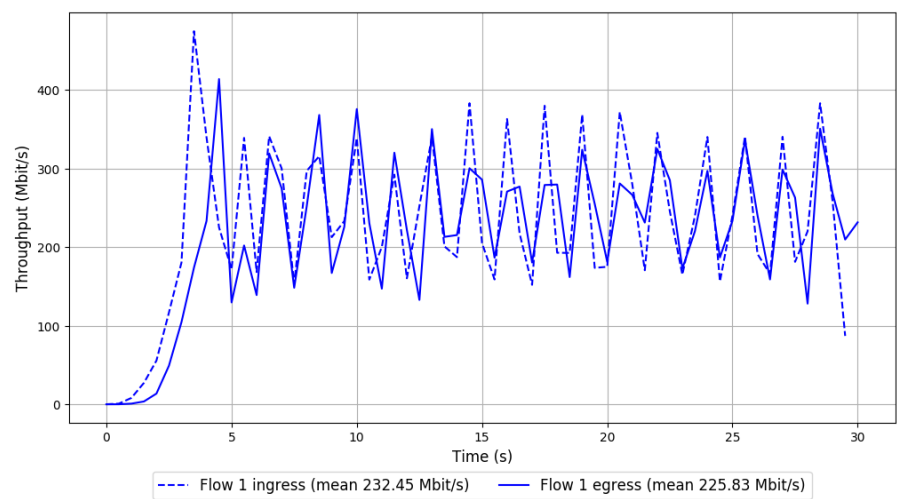


Run 5: Statistics of Verus

Start at: 2018-08-11 02:11:10
End at: 2018-08-11 02:11:40
Local clock offset: 0.112 ms
Remote clock offset: -0.182 ms

Below is generated by plot.py at 2018-08-11 06:24:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 225.83 Mbit/s
95th percentile per-packet one-way delay: 259.218 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 225.83 Mbit/s
95th percentile per-packet one-way delay: 259.218 ms
Loss rate: 2.79%

Run 5: Report of Verus — Data Link

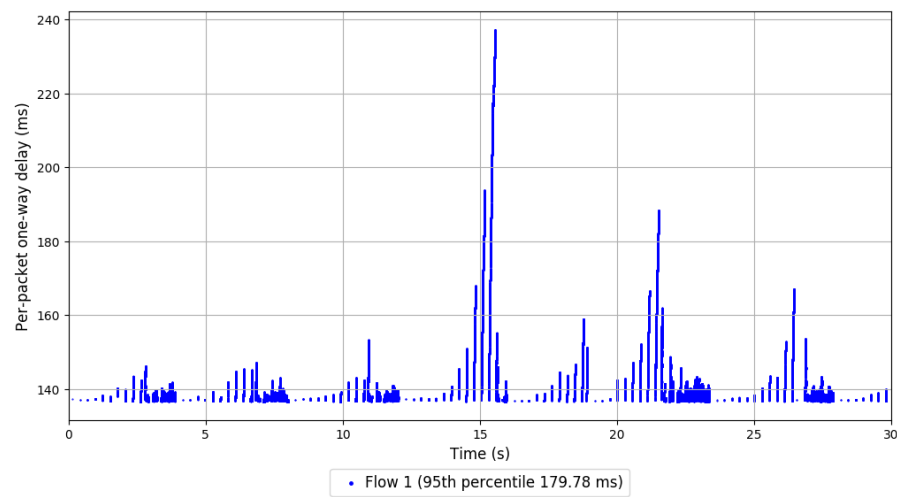
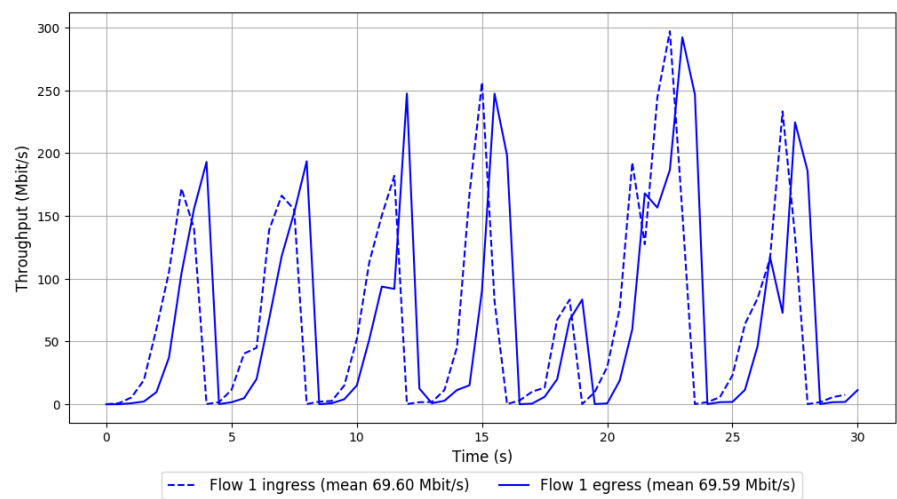


Run 6: Statistics of Verus

Start at: 2018-08-11 02:34:43
End at: 2018-08-11 02:35:13
Local clock offset: -0.006 ms
Remote clock offset: -0.121 ms

Below is generated by plot.py at 2018-08-11 06:24:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 179.783 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 69.59 Mbit/s
95th percentile per-packet one-way delay: 179.783 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link

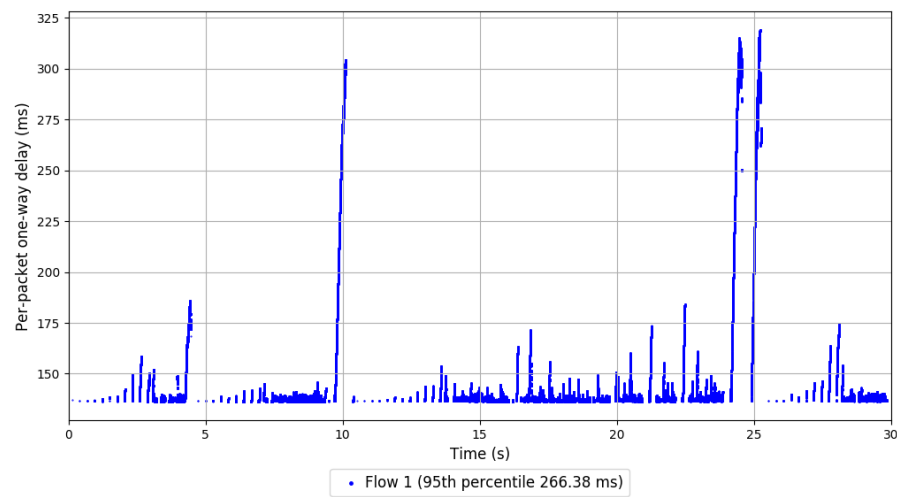
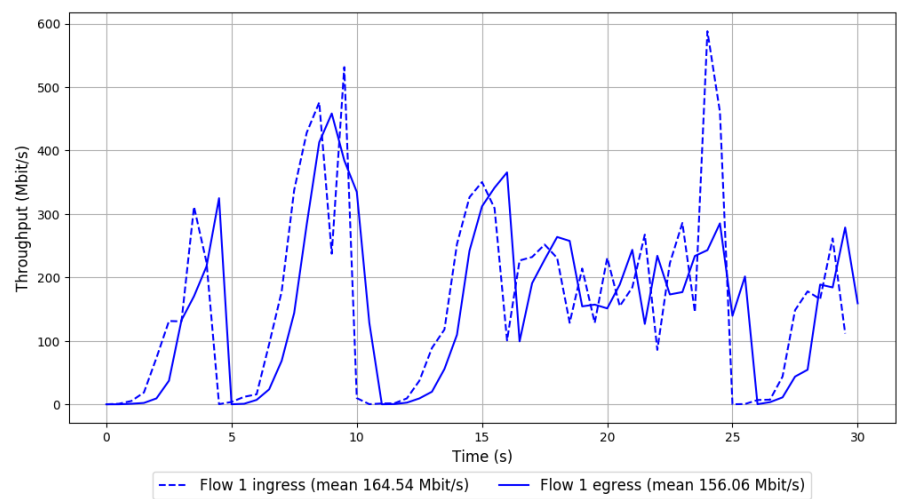


Run 7: Statistics of Verus

Start at: 2018-08-11 02:57:58
End at: 2018-08-11 02:58:28
Local clock offset: 0.353 ms
Remote clock offset: -0.101 ms

Below is generated by plot.py at 2018-08-11 06:24:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 156.06 Mbit/s
95th percentile per-packet one-way delay: 266.376 ms
Loss rate: 5.16%
-- Flow 1:
Average throughput: 156.06 Mbit/s
95th percentile per-packet one-way delay: 266.376 ms
Loss rate: 5.16%

Run 7: Report of Verus — Data Link

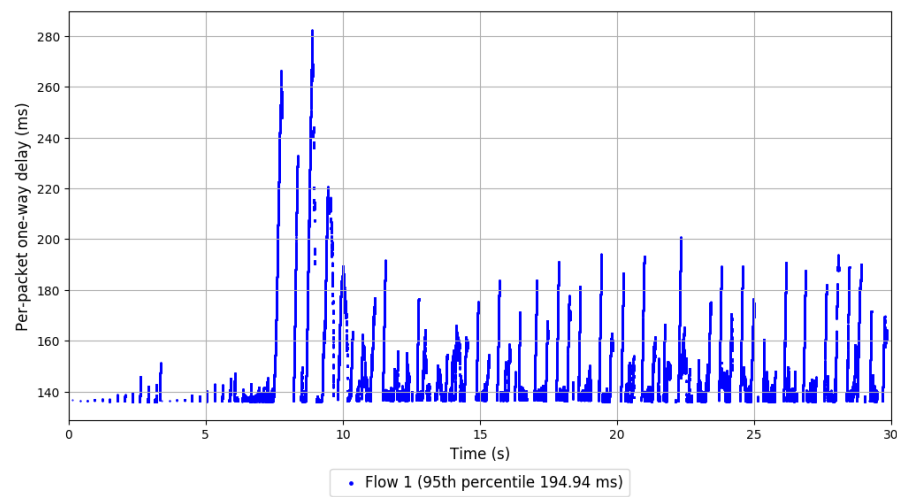
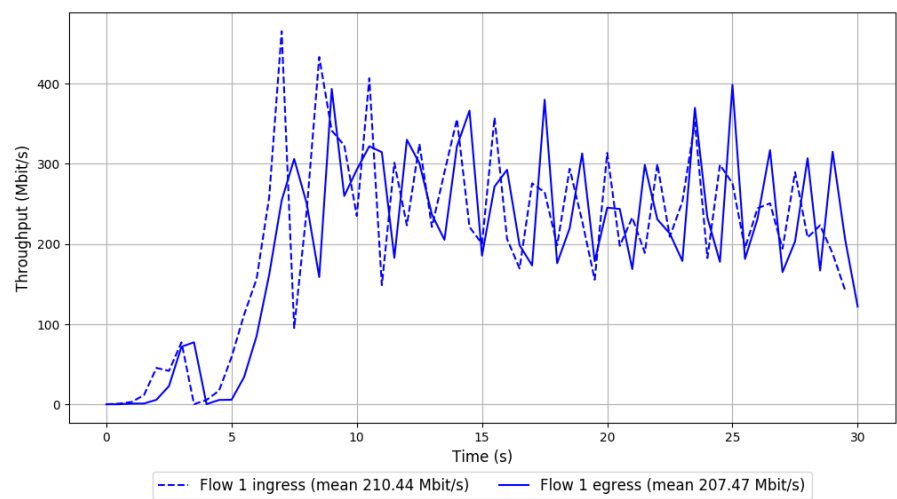


Run 8: Statistics of Verus

Start at: 2018-08-11 03:21:40
End at: 2018-08-11 03:22:10
Local clock offset: 0.154 ms
Remote clock offset: -0.119 ms

Below is generated by plot.py at 2018-08-11 06:24:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 207.47 Mbit/s
95th percentile per-packet one-way delay: 194.944 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 207.47 Mbit/s
95th percentile per-packet one-way delay: 194.944 ms
Loss rate: 1.40%

Run 8: Report of Verus — Data Link

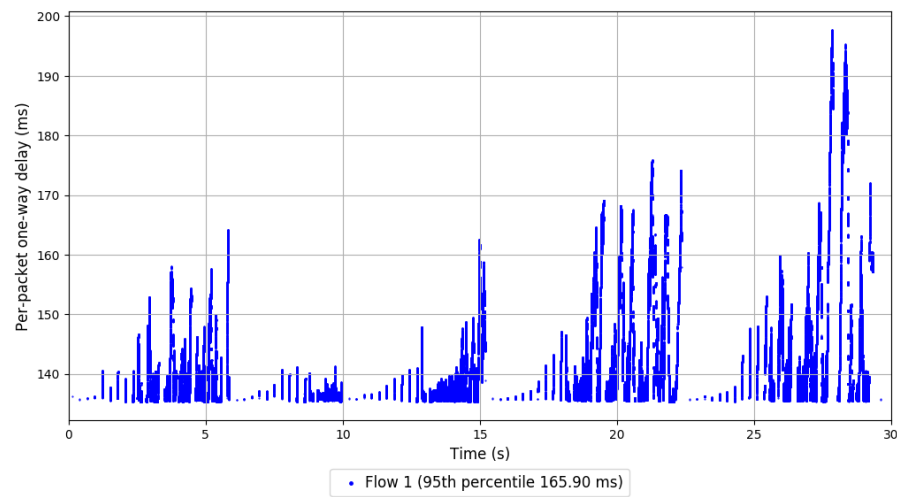
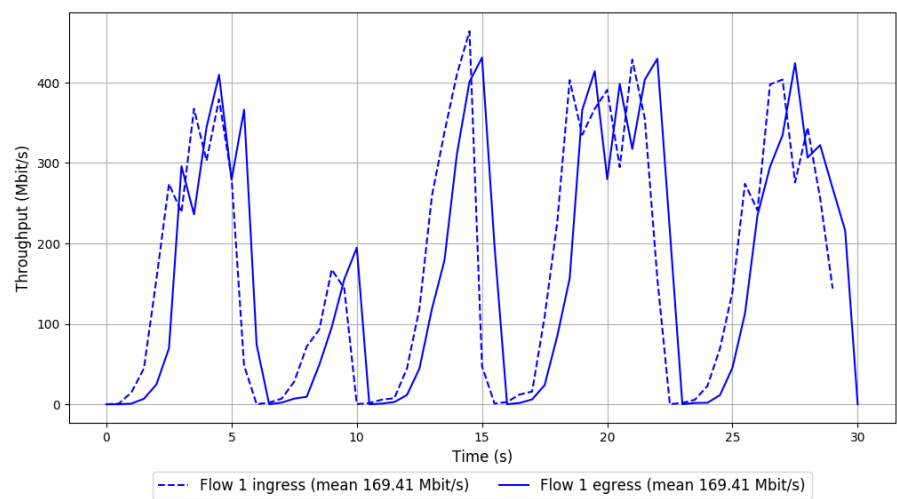


Run 9: Statistics of Verus

Start at: 2018-08-11 03:44:58
End at: 2018-08-11 03:45:29
Local clock offset: 0.422 ms
Remote clock offset: -0.459 ms

Below is generated by plot.py at 2018-08-11 06:24:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 169.41 Mbit/s
95th percentile per-packet one-way delay: 165.904 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 169.41 Mbit/s
95th percentile per-packet one-way delay: 165.904 ms
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

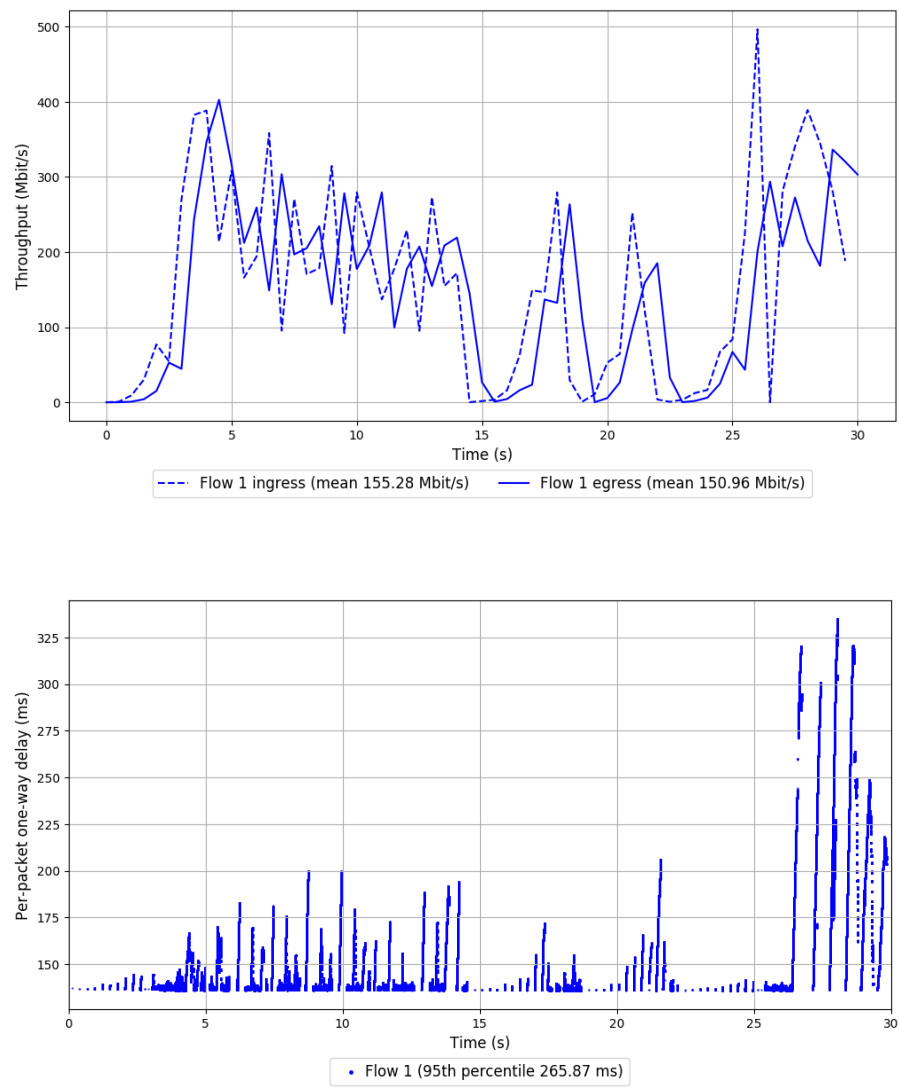


Run 10: Statistics of Verus

Start at: 2018-08-11 04:08:46
End at: 2018-08-11 04:09:16
Local clock offset: 0.306 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-08-11 06:24:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 150.96 Mbit/s
95th percentile per-packet one-way delay: 265.873 ms
Loss rate: 2.78%
-- Flow 1:
Average throughput: 150.96 Mbit/s
95th percentile per-packet one-way delay: 265.873 ms
Loss rate: 2.78%

Run 10: Report of Verus — Data Link

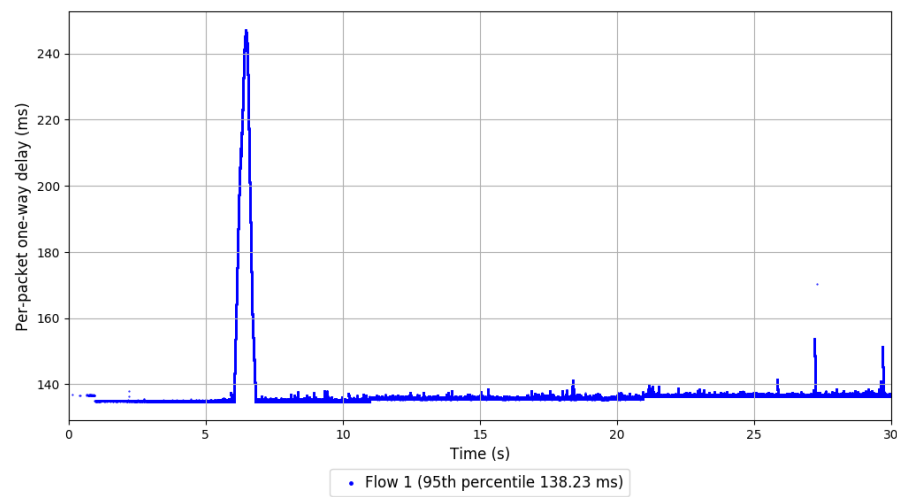
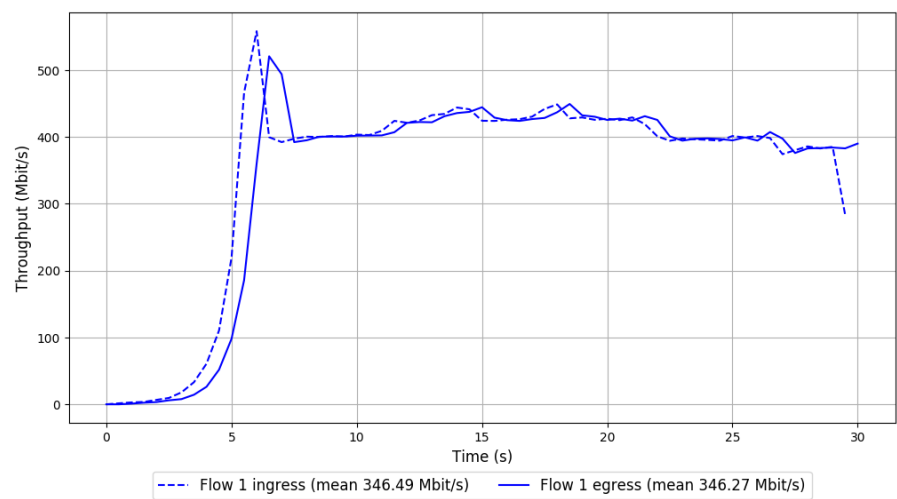


Run 1: Statistics of PCC-Vivace

Start at: 2018-08-11 00:47:57
End at: 2018-08-11 00:48:27
Local clock offset: -0.001 ms
Remote clock offset: -0.234 ms

Below is generated by plot.py at 2018-08-11 06:29:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 346.27 Mbit/s
95th percentile per-packet one-way delay: 138.232 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 346.27 Mbit/s
95th percentile per-packet one-way delay: 138.232 ms
Loss rate: 0.06%

Run 1: Report of PCC-Vivace — Data Link

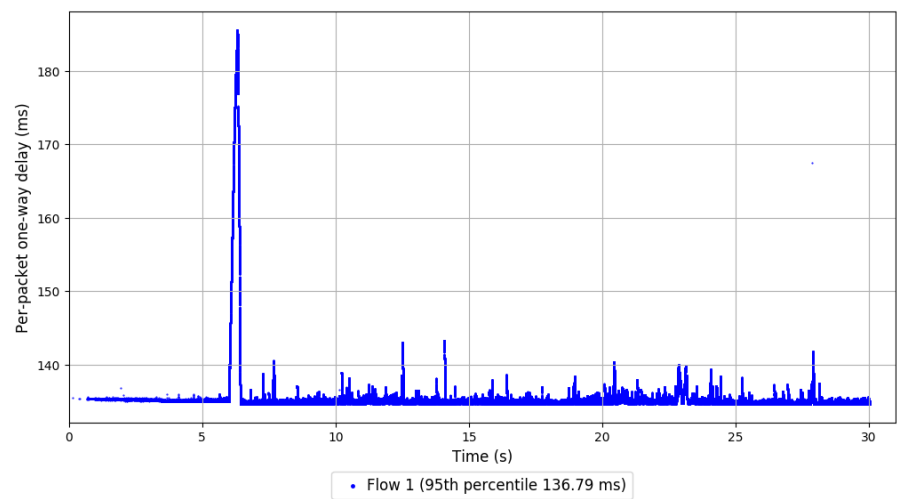
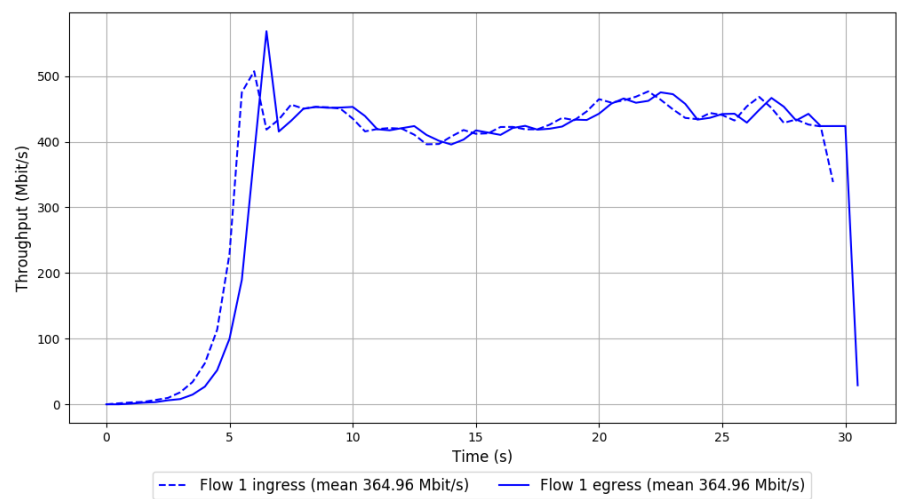


Run 2: Statistics of PCC-Vivace

Start at: 2018-08-11 01:11:12
End at: 2018-08-11 01:11:42
Local clock offset: 0.131 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-08-11 06:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 364.96 Mbit/s
95th percentile per-packet one-way delay: 136.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 364.96 Mbit/s
95th percentile per-packet one-way delay: 136.788 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

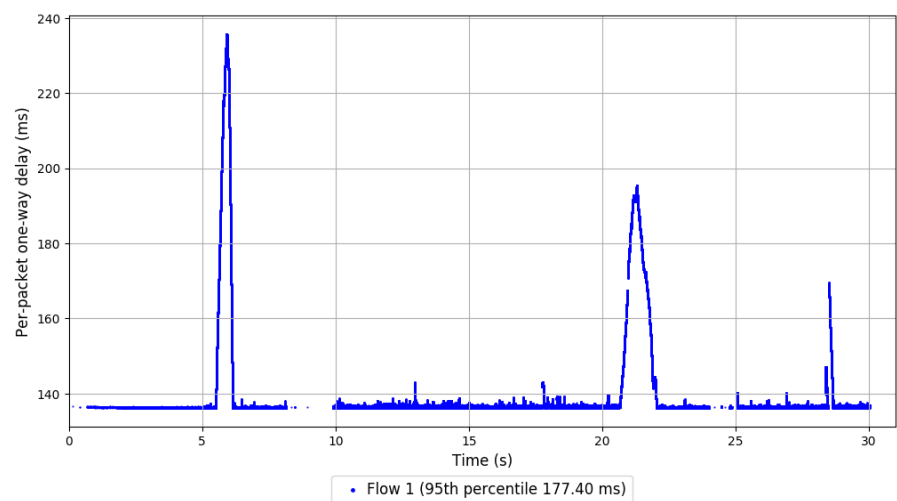
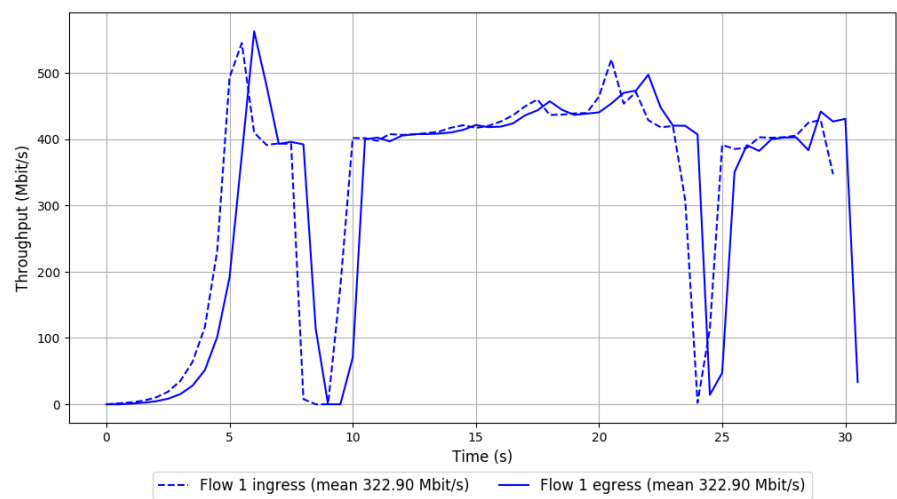


Run 3: Statistics of PCC-Vivace

Start at: 2018-08-11 01:34:31
End at: 2018-08-11 01:35:01
Local clock offset: 0.39 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-08-11 06:30:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 322.90 Mbit/s
95th percentile per-packet one-way delay: 177.404 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.90 Mbit/s
95th percentile per-packet one-way delay: 177.404 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-08-11 01:58:09

End at: 2018-08-11 01:58:39

Local clock offset: 0.278 ms

Remote clock offset: -0.177 ms

Below is generated by plot.py at 2018-08-11 06:30:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.61 Mbit/s

95th percentile per-packet one-way delay: 139.319 ms

Loss rate: 0.00%

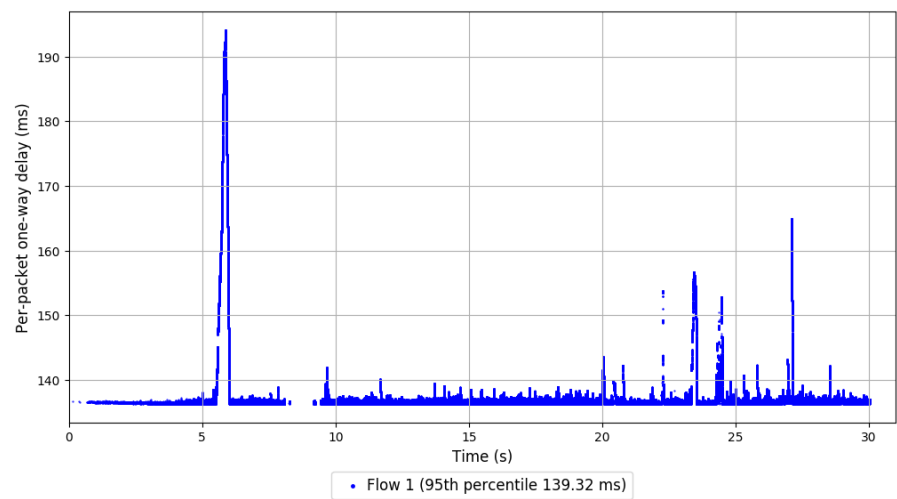
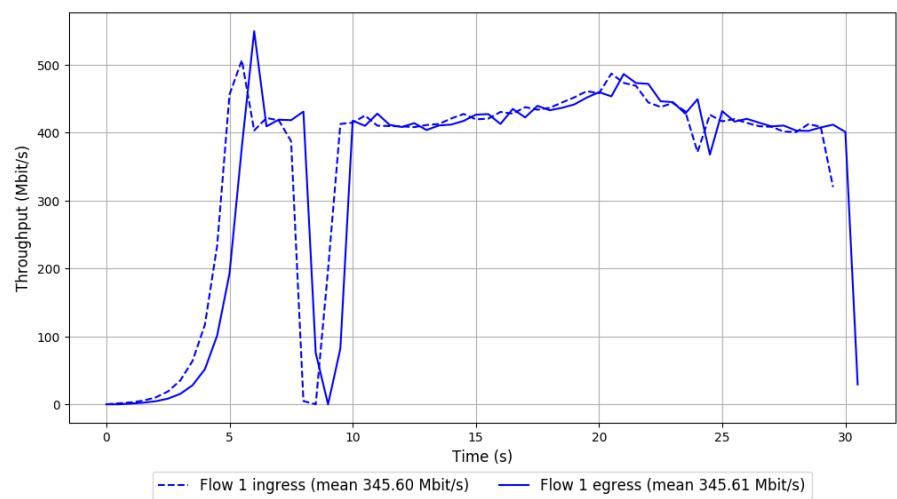
-- Flow 1:

Average throughput: 345.61 Mbit/s

95th percentile per-packet one-way delay: 139.319 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-08-11 02:21:40

End at: 2018-08-11 02:22:10

Local clock offset: 0.51 ms

Remote clock offset: 0.238 ms

Below is generated by plot.py at 2018-08-11 06:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.41 Mbit/s

95th percentile per-packet one-way delay: 170.841 ms

Loss rate: 0.58%

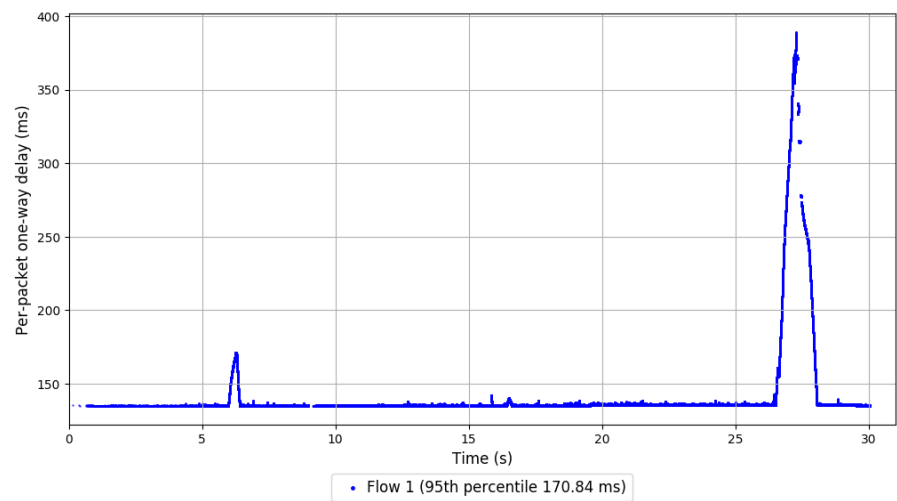
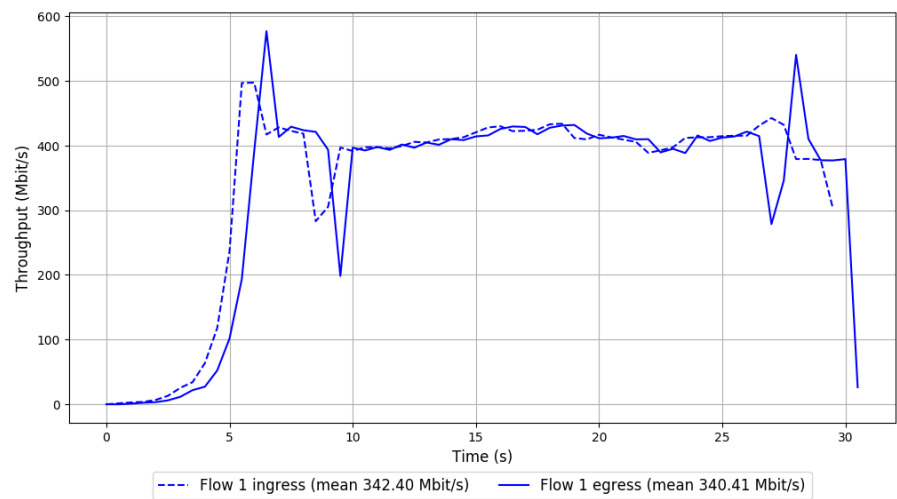
-- Flow 1:

Average throughput: 340.41 Mbit/s

95th percentile per-packet one-way delay: 170.841 ms

Loss rate: 0.58%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-08-11 02:45:05

End at: 2018-08-11 02:45:35

Local clock offset: 0.443 ms

Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-08-11 06:31:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.13 Mbit/s

95th percentile per-packet one-way delay: 149.802 ms

Loss rate: 0.00%

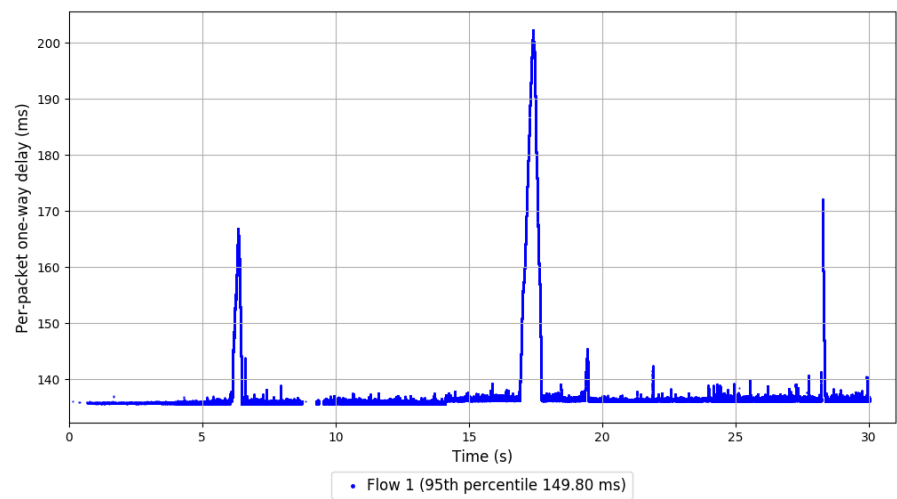
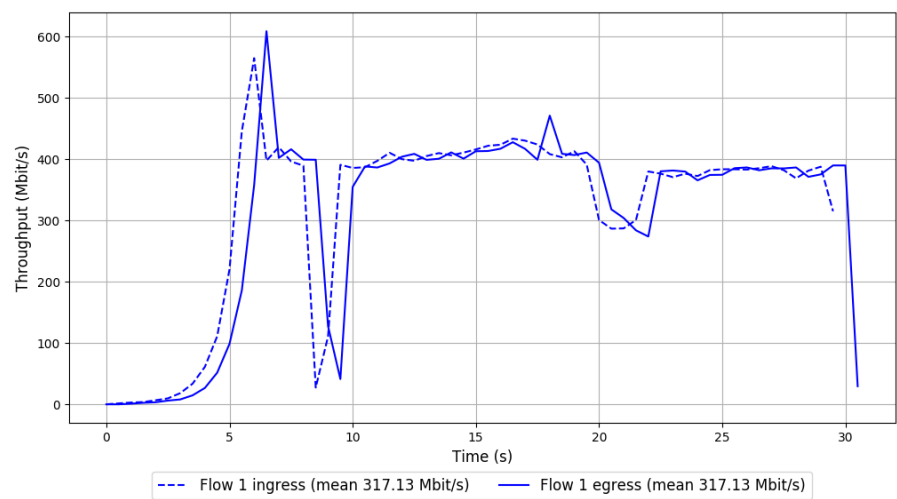
-- Flow 1:

Average throughput: 317.13 Mbit/s

95th percentile per-packet one-way delay: 149.802 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-08-11 03:08:32

End at: 2018-08-11 03:09:03

Local clock offset: 0.319 ms

Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-08-11 06:31:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 350.77 Mbit/s

95th percentile per-packet one-way delay: 137.196 ms

Loss rate: 0.00%

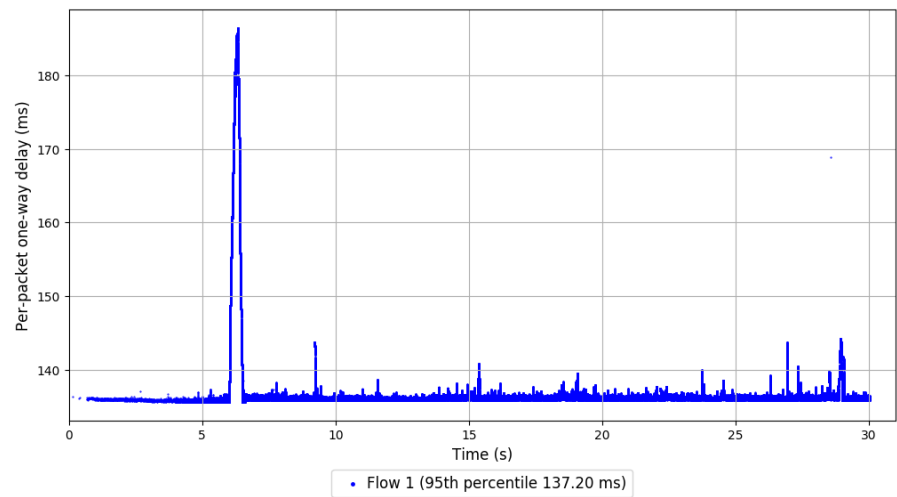
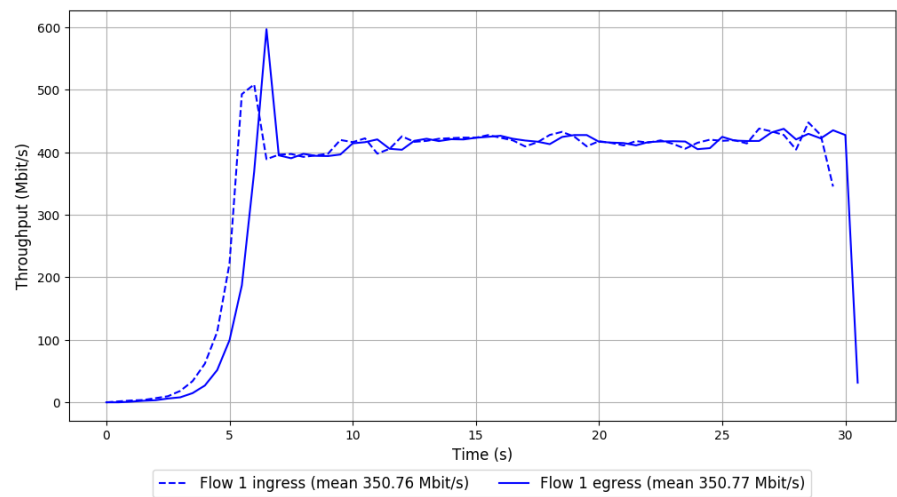
-- Flow 1:

Average throughput: 350.77 Mbit/s

95th percentile per-packet one-way delay: 137.196 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-08-11 03:32:06

End at: 2018-08-11 03:32:36

Local clock offset: 0.329 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-08-11 06:31:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.93 Mbit/s

95th percentile per-packet one-way delay: 147.071 ms

Loss rate: 0.00%

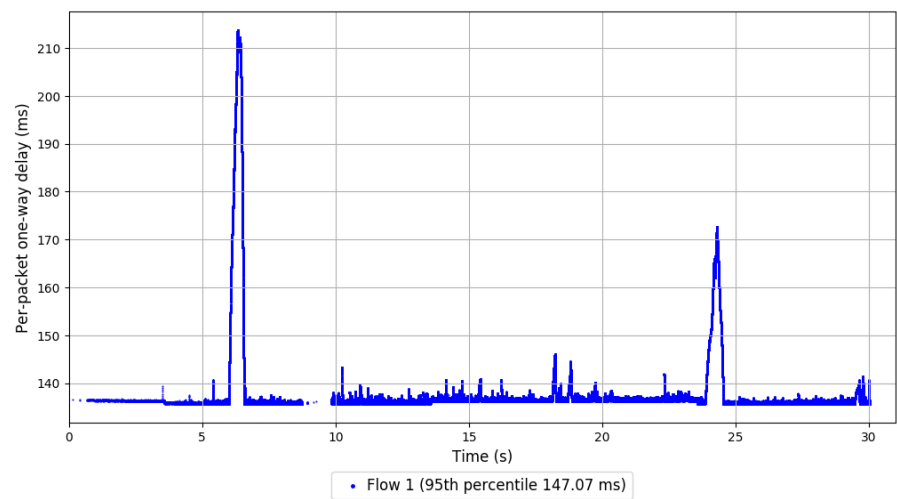
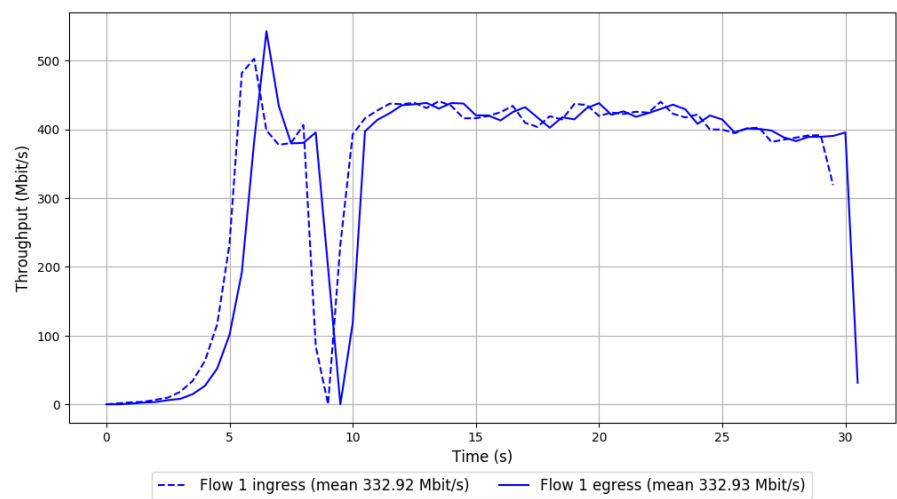
-- Flow 1:

Average throughput: 332.93 Mbit/s

95th percentile per-packet one-way delay: 147.071 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-08-11 03:55:16

End at: 2018-08-11 03:55:46

Local clock offset: 0.656 ms

Remote clock offset: -0.448 ms

Below is generated by plot.py at 2018-08-11 06:31:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 271.01 Mbit/s

95th percentile per-packet one-way delay: 137.419 ms

Loss rate: 0.00%

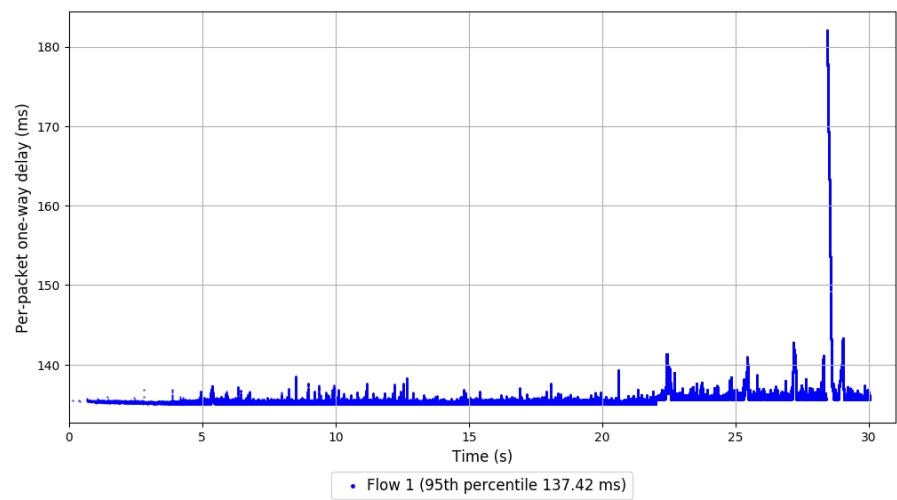
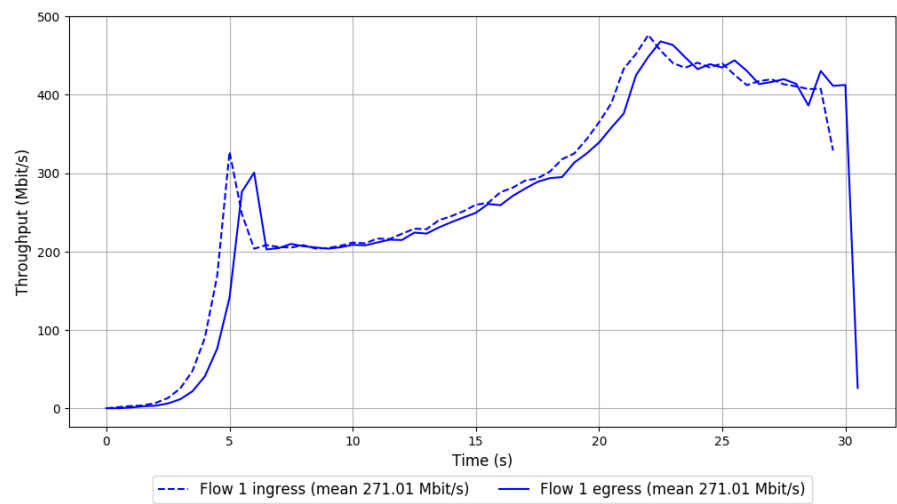
-- Flow 1:

Average throughput: 271.01 Mbit/s

95th percentile per-packet one-way delay: 137.419 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-08-11 04:19:05

End at: 2018-08-11 04:19:35

Local clock offset: 0.301 ms

Remote clock offset: -0.44 ms

Below is generated by plot.py at 2018-08-11 06:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 346.40 Mbit/s

95th percentile per-packet one-way delay: 142.397 ms

Loss rate: 0.00%

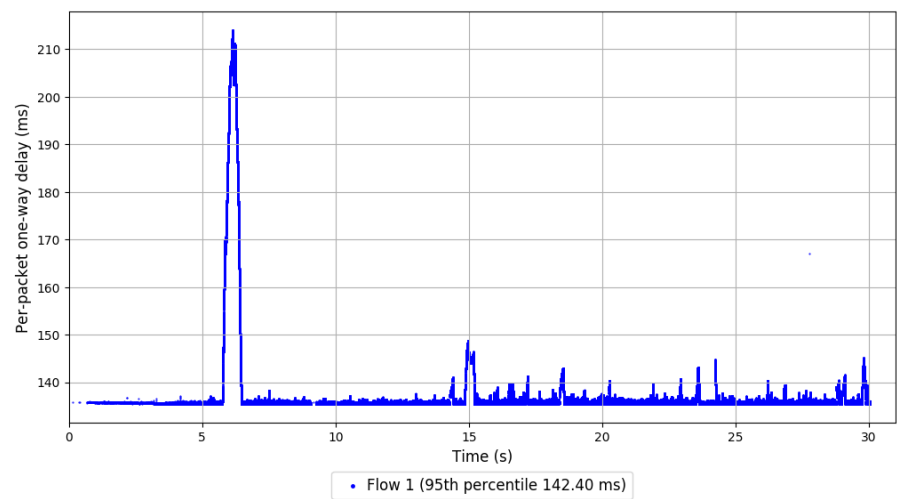
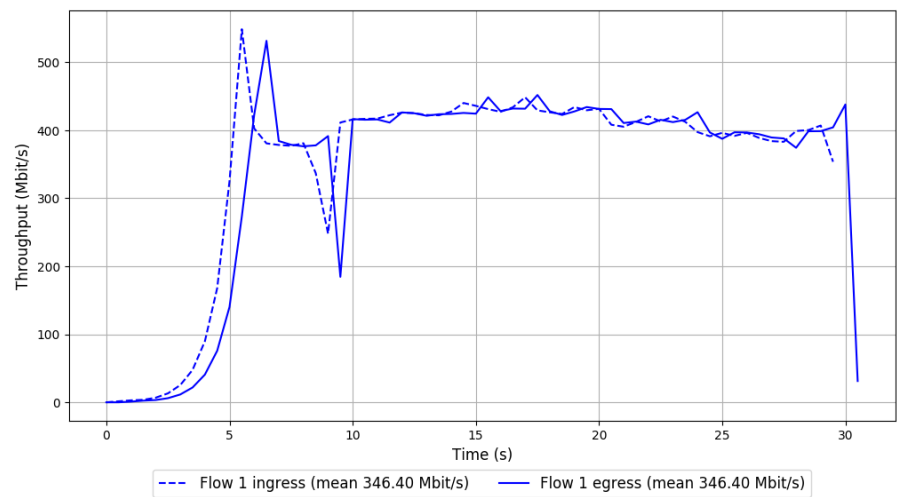
-- Flow 1:

Average throughput: 346.40 Mbit/s

95th percentile per-packet one-way delay: 142.397 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

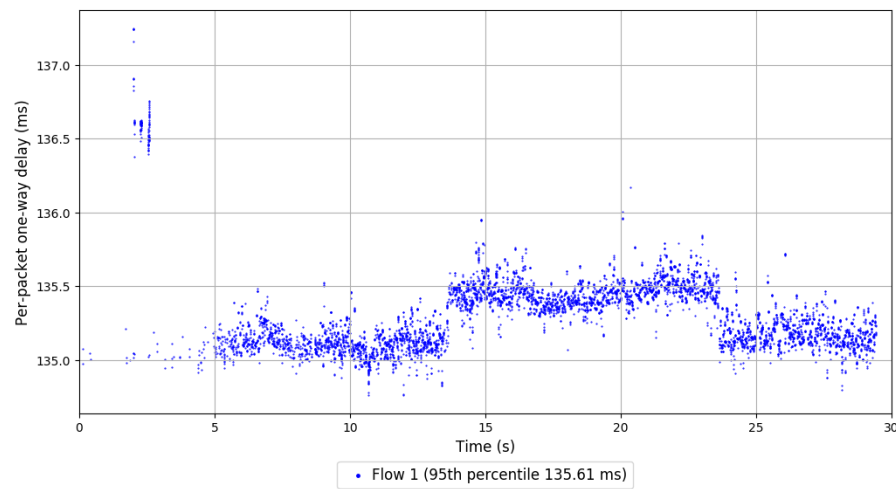
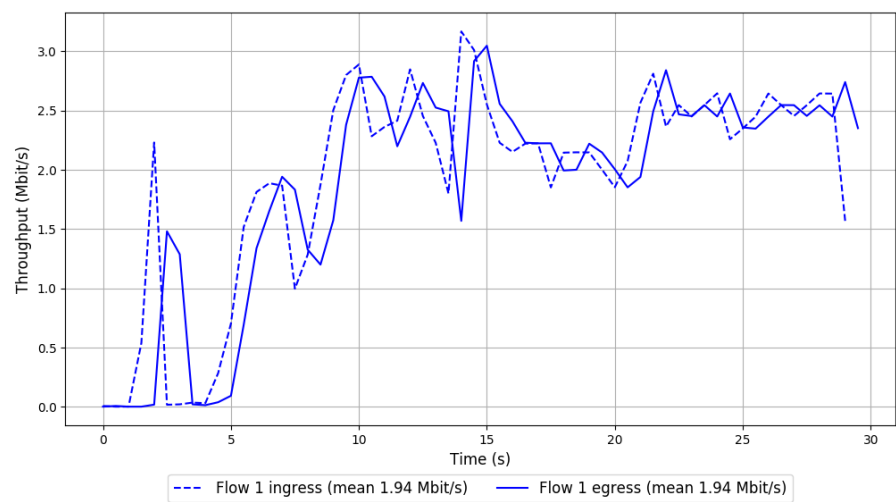


```
Run 1: Statistics of WebRTC media

Start at: 2018-08-11 00:52:54
End at: 2018-08-11 00:53:24
Local clock offset: -0.07 ms
Remote clock offset: -0.675 ms

# Below is generated by plot.py at 2018-08-11 06:31:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 135.607 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 135.607 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

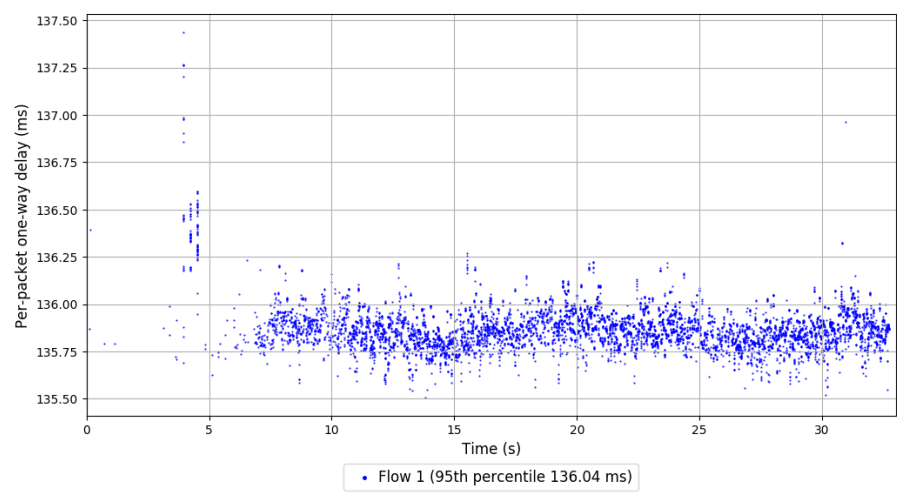
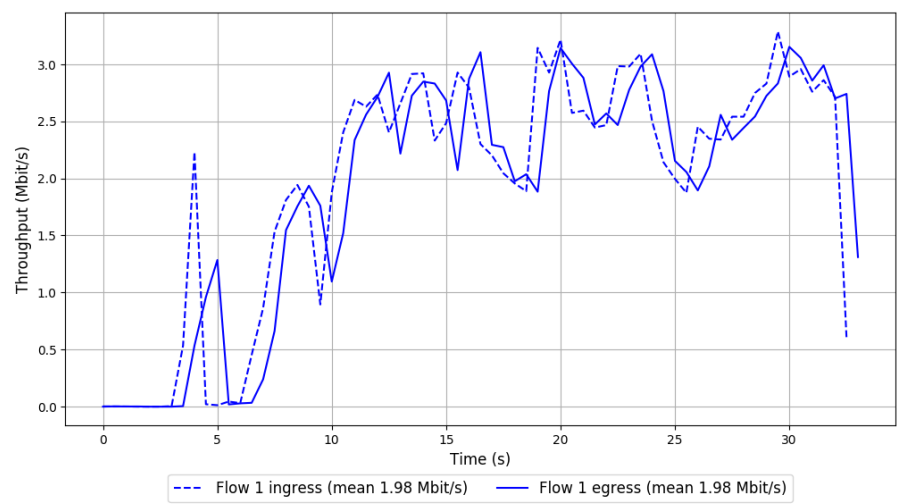


Run 2: Statistics of WebRTC media

Start at: 2018-08-11 01:15:59
End at: 2018-08-11 01:16:29
Local clock offset: 0.207 ms
Remote clock offset: -0.692 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 136.037 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.98 Mbit/s
95th percentile per-packet one-way delay: 136.037 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

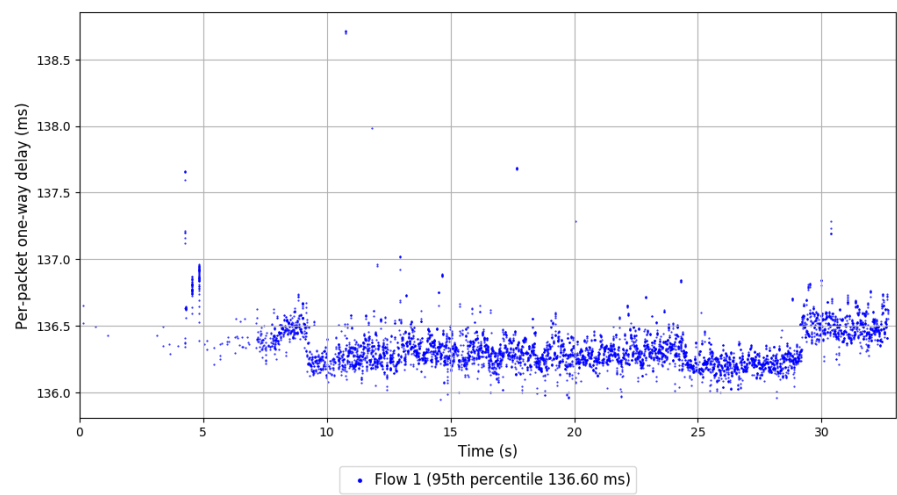
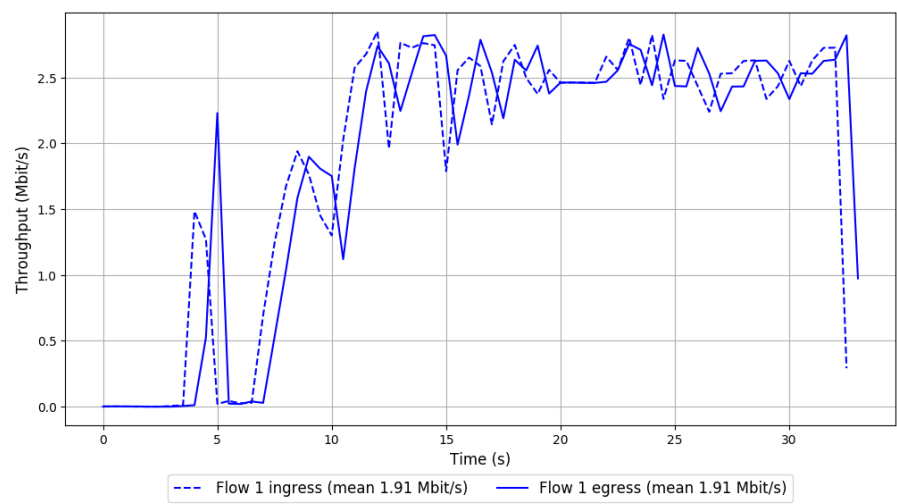


Run 3: Statistics of WebRTC media

Start at: 2018-08-11 01:39:23
End at: 2018-08-11 01:39:53
Local clock offset: 0.36 ms
Remote clock offset: -0.204 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 136.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 136.600 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

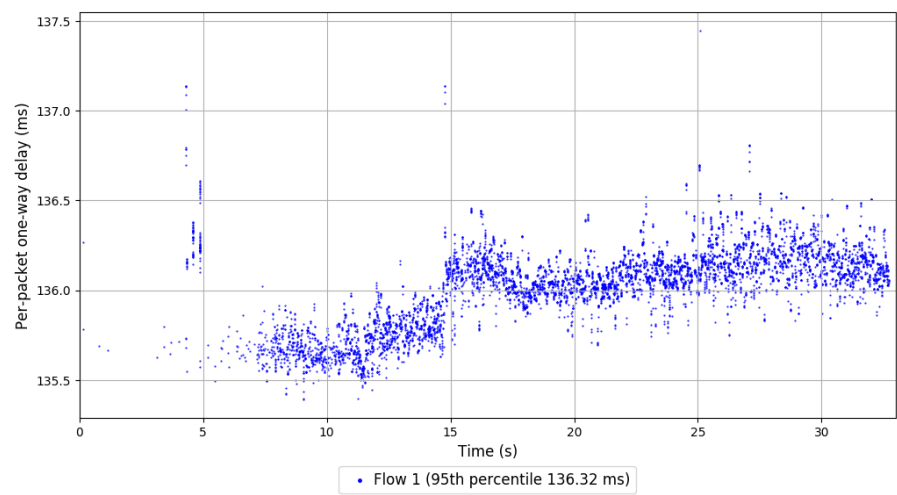
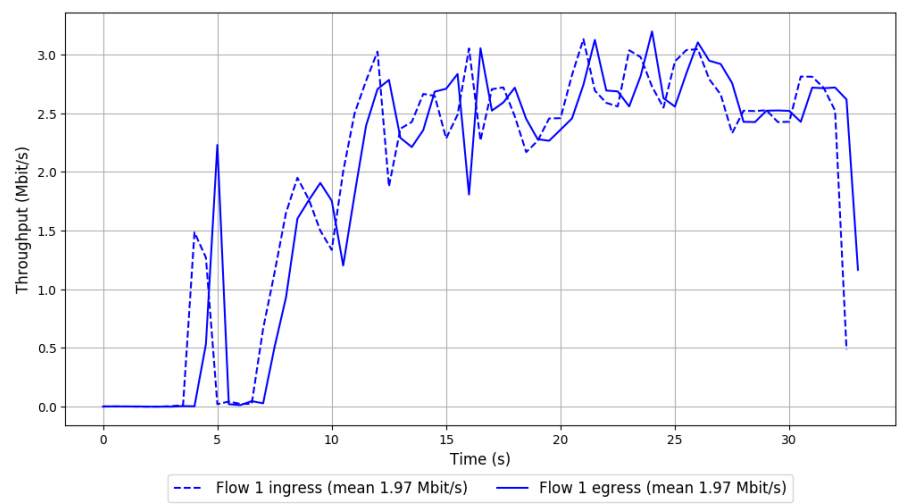


Run 4: Statistics of WebRTC media

Start at: 2018-08-11 02:03:07
End at: 2018-08-11 02:03:37
Local clock offset: 0.228 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.97 Mbit/s
95th percentile per-packet one-way delay: 136.324 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-08-11 02:26:29

End at: 2018-08-11 02:26:59

Local clock offset: 0.442 ms

Remote clock offset: 0.22 ms

Below is generated by plot.py at 2018-08-11 06:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

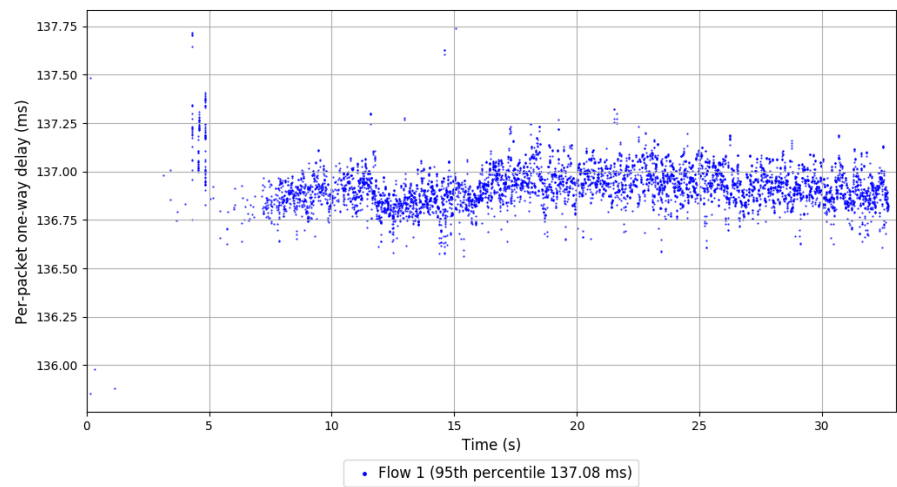
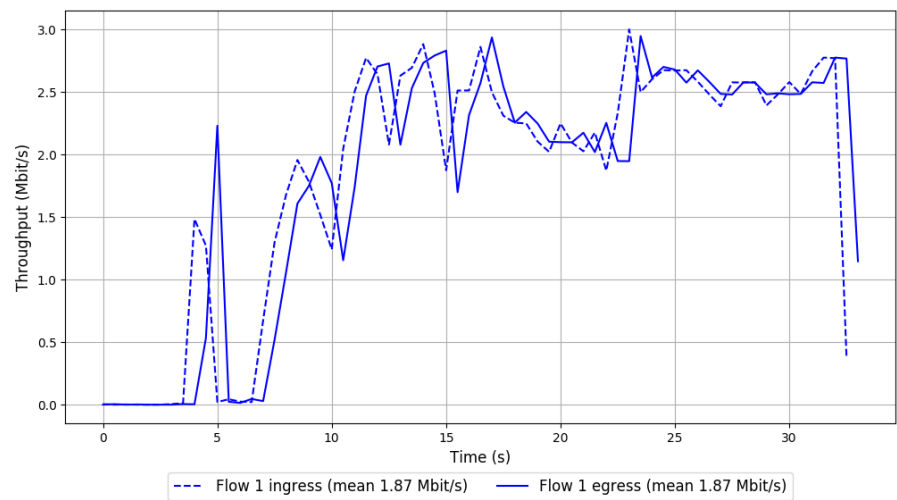
-- Flow 1:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 137.082 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

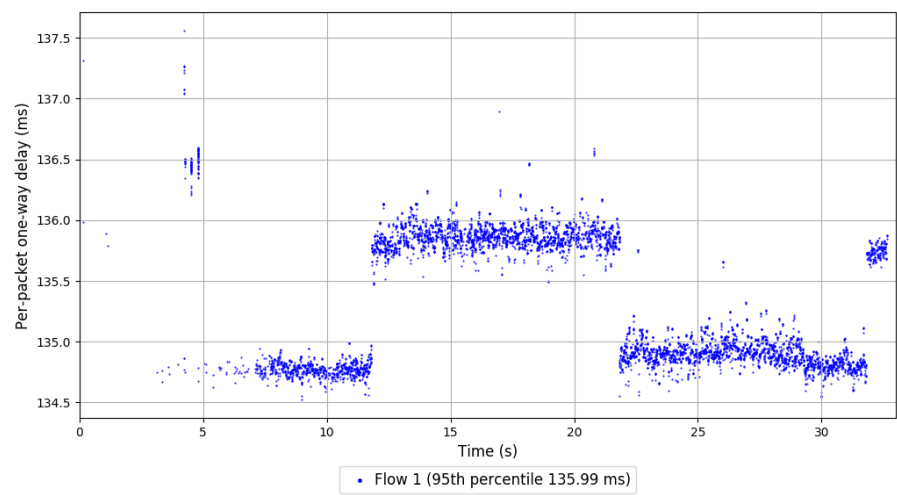
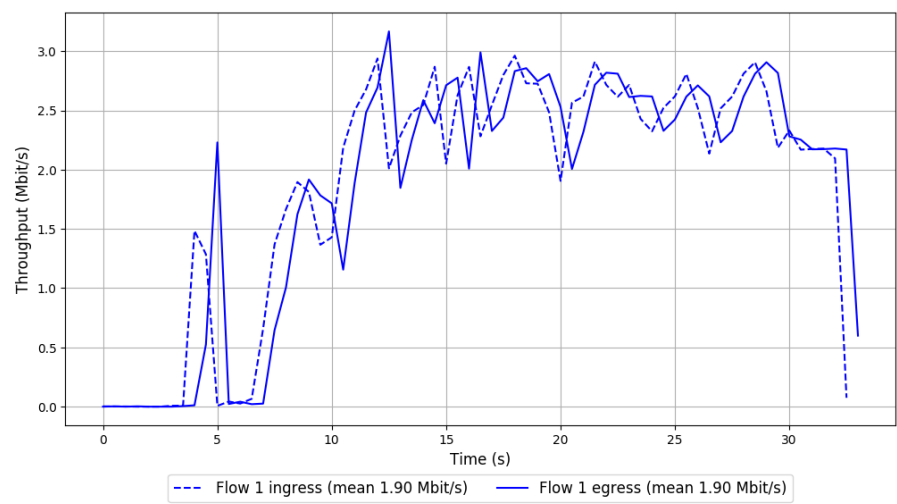


Run 6: Statistics of WebRTC media

Start at: 2018-08-11 02:49:50
End at: 2018-08-11 02:50:20
Local clock offset: 0.632 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 135.988 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 135.988 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

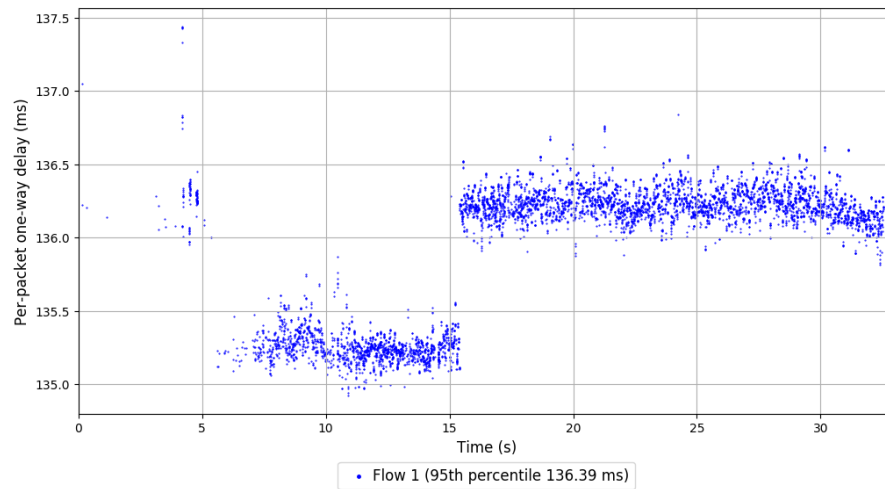
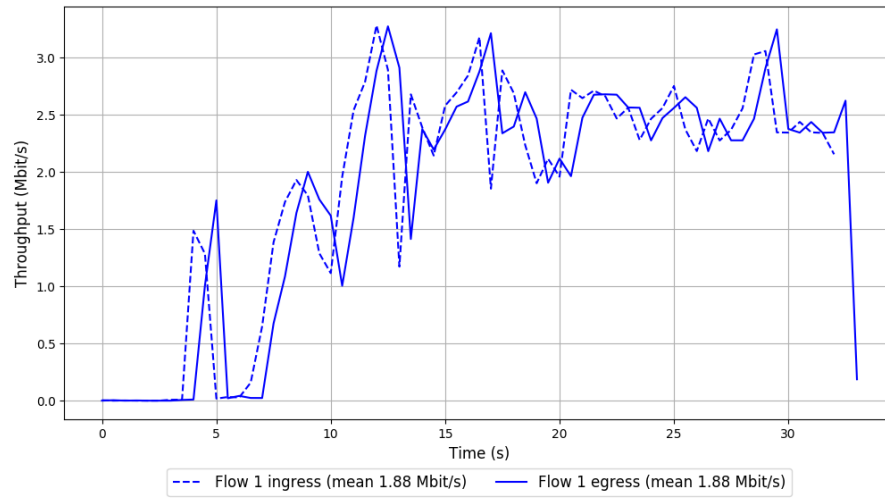


Run 7: Statistics of WebRTC media

Start at: 2018-08-11 03:13:26
End at: 2018-08-11 03:13:56
Local clock offset: 0.393 ms
Remote clock offset: -0.127 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 136.391 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 136.391 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

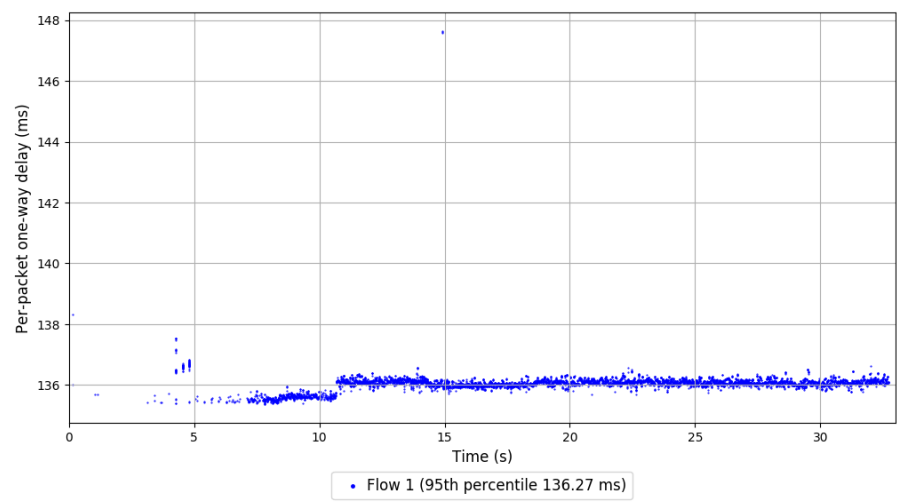
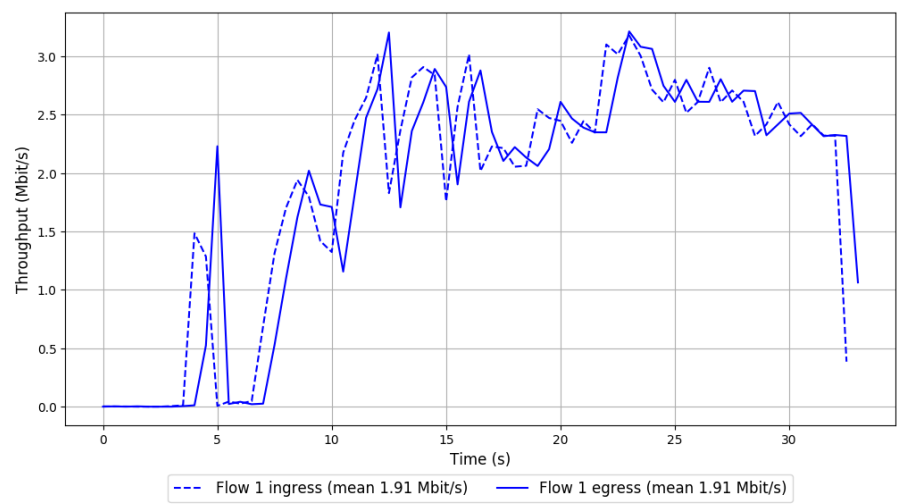


Run 8: Statistics of WebRTC media

Start at: 2018-08-11 03:37:00
End at: 2018-08-11 03:37:30
Local clock offset: 0.366 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 136.273 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.91 Mbit/s
95th percentile per-packet one-way delay: 136.273 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

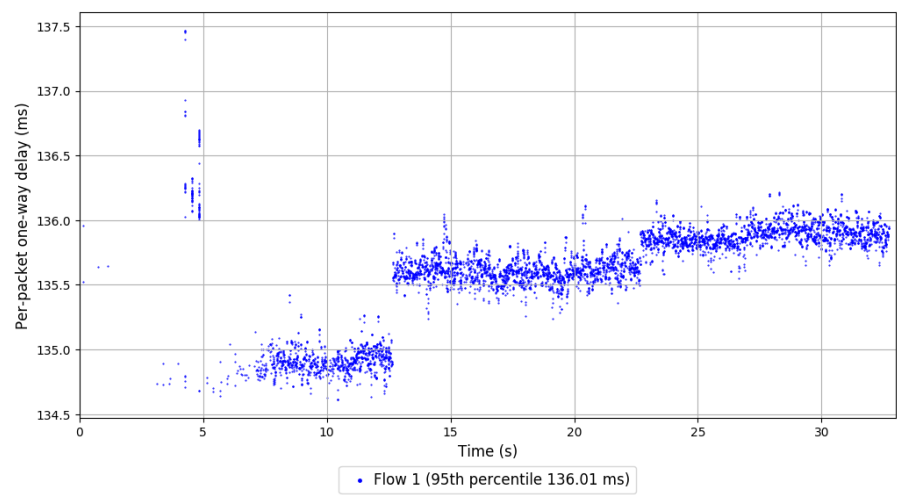
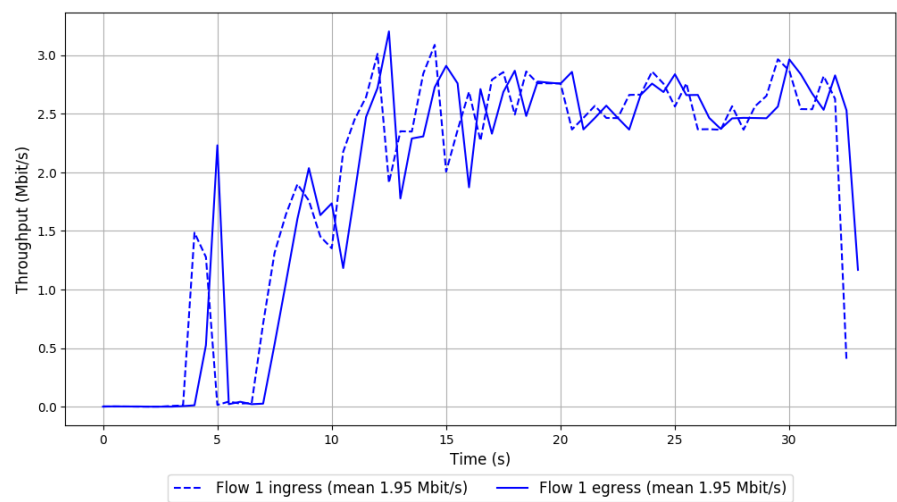


Run 9: Statistics of WebRTC media

Start at: 2018-08-11 04:00:29
End at: 2018-08-11 04:00:59
Local clock offset: 0.131 ms
Remote clock offset: -0.465 ms

Below is generated by plot.py at 2018-08-11 06:31:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 136.014 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 136.014 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-11 04:24:10

End at: 2018-08-11 04:24:40

Local clock offset: 0.208 ms

Remote clock offset: -0.233 ms

Below is generated by plot.py at 2018-08-11 06:31:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.99 Mbit/s

95th percentile per-packet one-way delay: 136.437 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

