

Pantheon Report

Generated at 2018-06-19 21:52:42 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

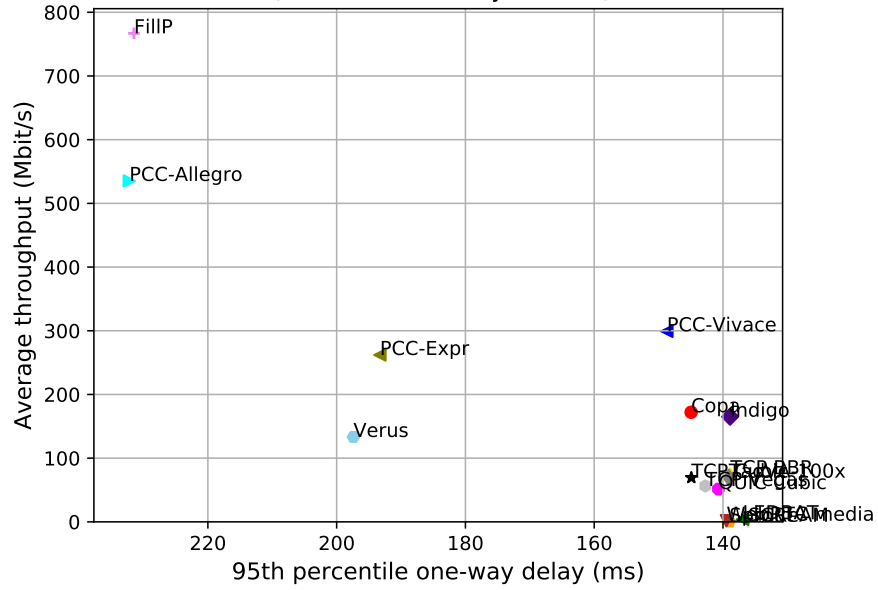
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

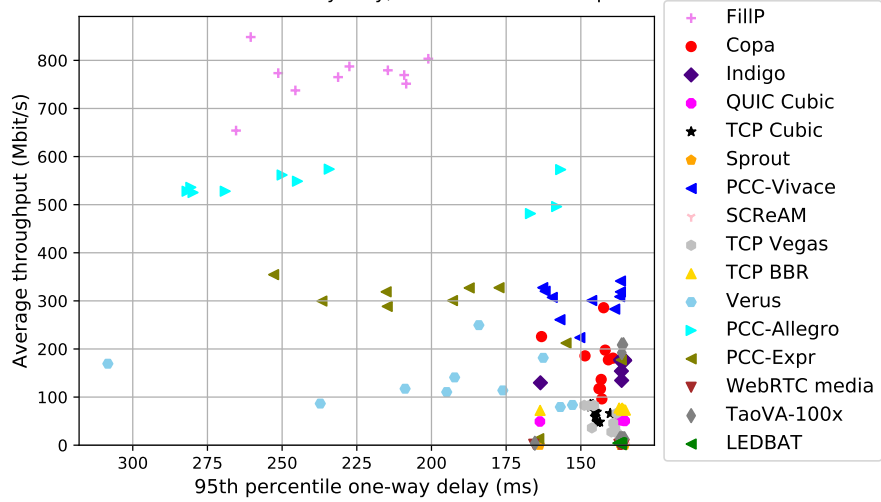
Git summary:

```
branch: master @ 9141c5f9450c85ea5ea2ea755a8e946998d3abf3
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
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-quirk @ 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 London to GCE Sydney, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from GCE London to GCE Sydney, 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	74.72	138.86	0.98
Copa	10	172.06	144.95	0.83
TCP Cubic	10	69.32	144.91	0.98
FillP	10	766.97	231.48	3.56
Indigo	10	165.11	138.90	0.91
LEDBAT	10	4.14	136.95	2.08
PCC-Allegro	10	535.20	232.20	3.10
PCC-Expr	10	261.96	193.28	1.54
QUIC Cubic	6	51.50	140.71	1.35
SCReAM	10	0.22	136.10	0.82
Sprout	10	0.16	139.01	0.84
TaoVA-100x	10	69.37	139.10	1.12
TCP Vegas	10	56.35	142.73	0.92
Verus	10	133.26	197.40	2.18
PCC-Vivace	10	299.17	148.71	1.25
WebRTC media	10	1.80	139.46	1.33

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 17:22:04

End at: 2018-06-19 17:22:35

Local clock offset: -0.134 ms

Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-06-19 20:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 136.171 ms

Loss rate: 0.93%

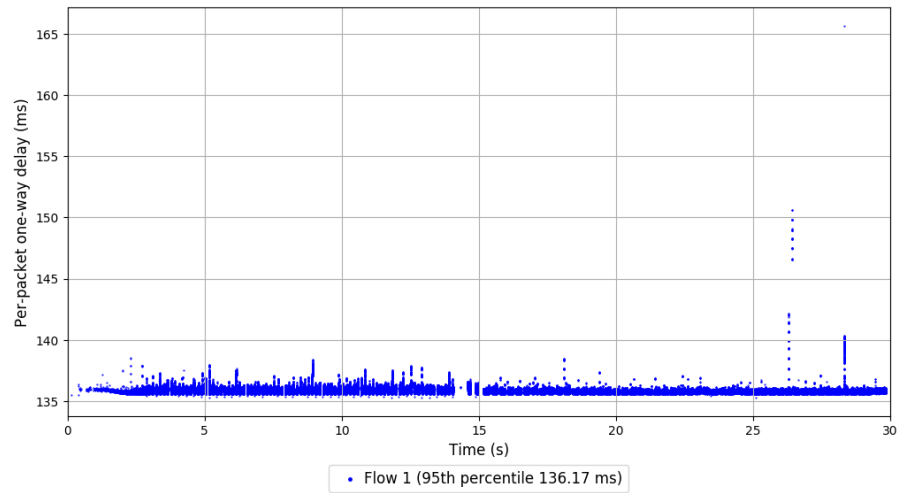
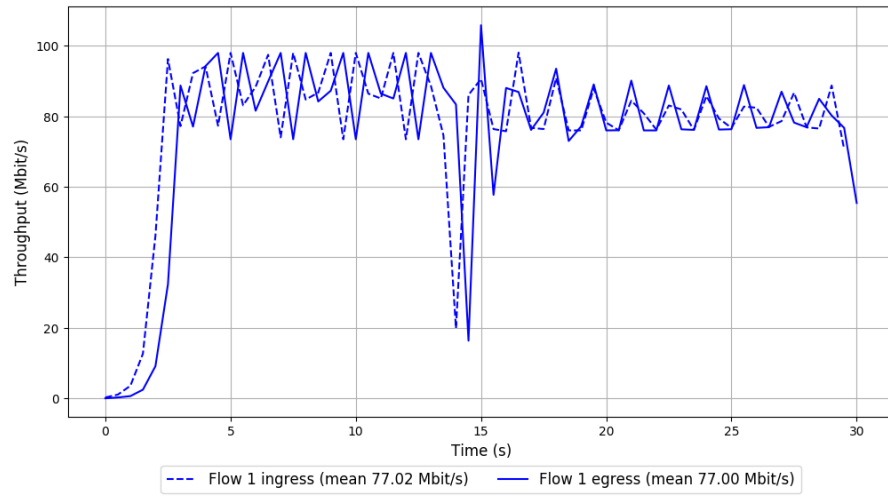
-- Flow 1:

Average throughput: 77.00 Mbit/s

95th percentile per-packet one-way delay: 136.171 ms

Loss rate: 0.93%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-19 17:43:01

End at: 2018-06-19 17:43:31

Local clock offset: 0.09 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2018-06-19 20:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 135.859 ms

Loss rate: 0.96%

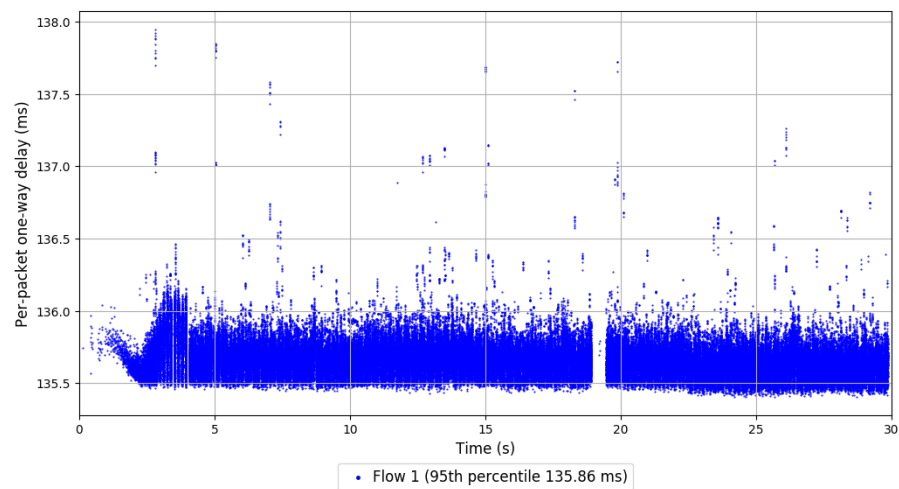
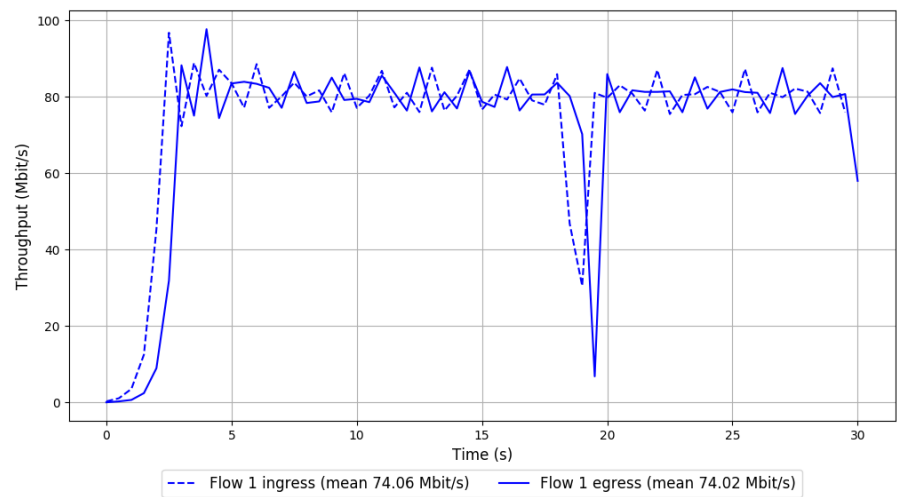
-- Flow 1:

Average throughput: 74.02 Mbit/s

95th percentile per-packet one-way delay: 135.859 ms

Loss rate: 0.96%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 18:04:14

End at: 2018-06-19 18:04:44

Local clock offset: 0.144 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-19 20:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 0.94%

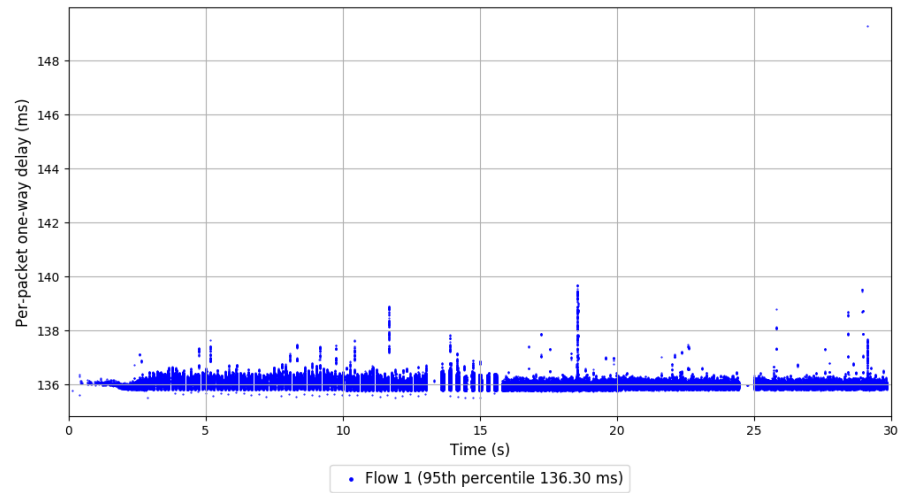
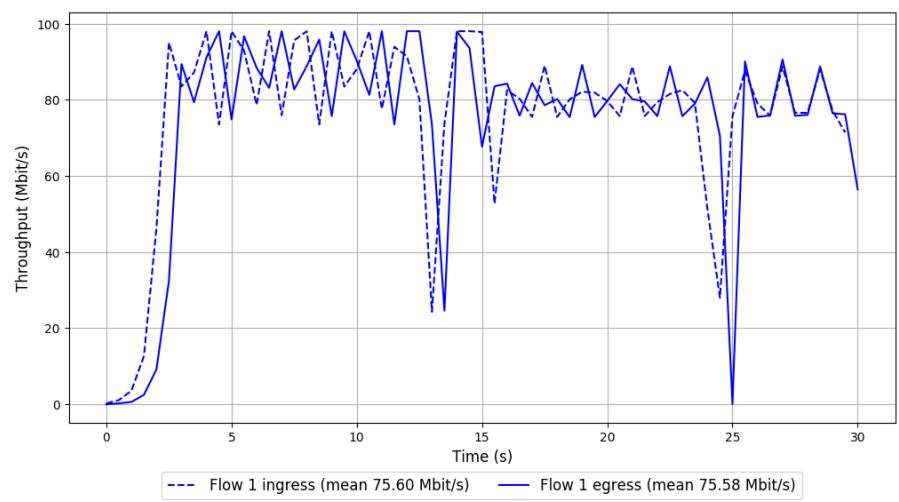
-- Flow 1:

Average throughput: 75.58 Mbit/s

95th percentile per-packet one-way delay: 136.301 ms

Loss rate: 0.94%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 18:24:55

End at: 2018-06-19 18:25:25

Local clock offset: 0.047 ms

Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 20:43:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 163.631 ms

Loss rate: 0.99%

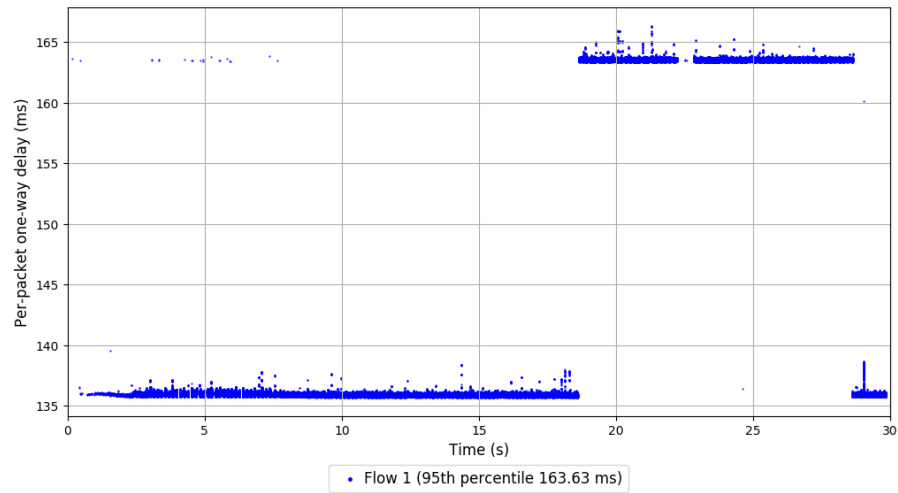
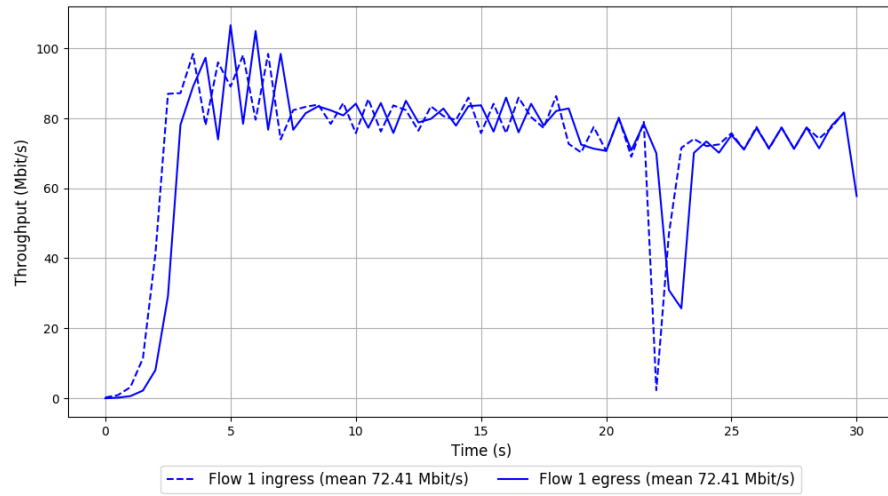
-- Flow 1:

Average throughput: 72.41 Mbit/s

95th percentile per-packet one-way delay: 163.631 ms

Loss rate: 0.99%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 18:45:52

End at: 2018-06-19 18:46:22

Local clock offset: 0.148 ms

Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-06-19 20:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 1.01%

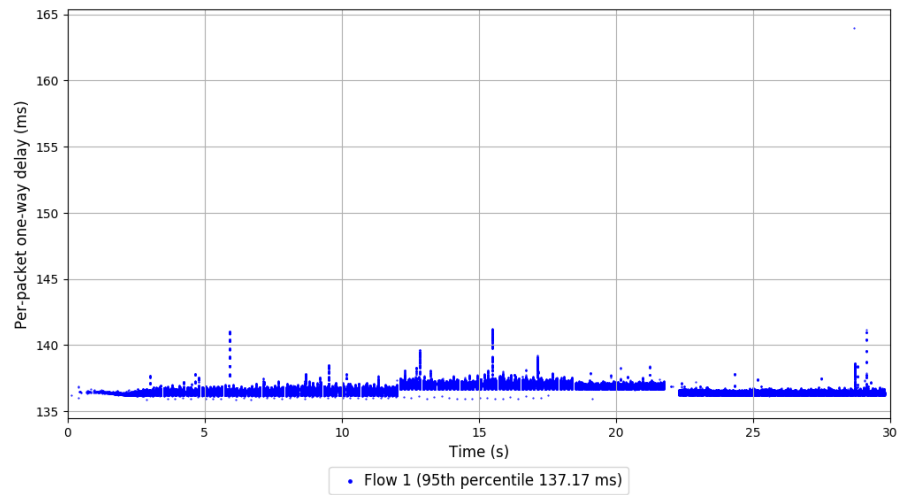
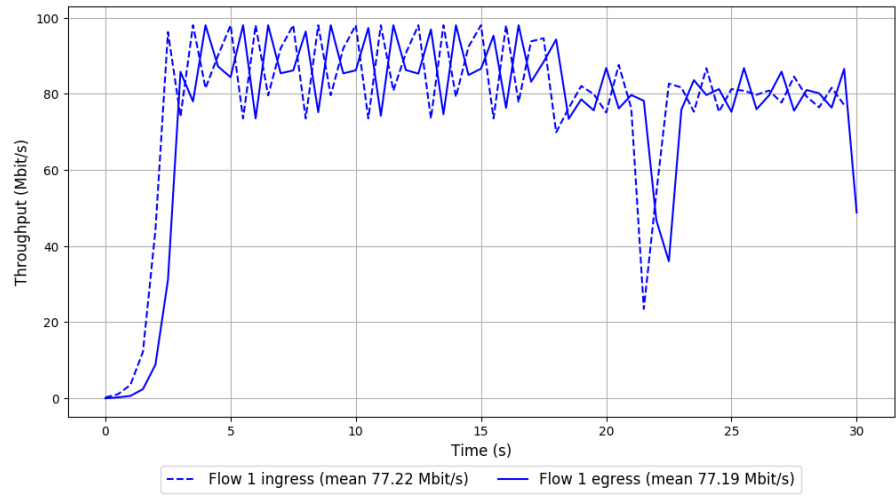
-- Flow 1:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 137.171 ms

Loss rate: 1.01%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 19:06:49

End at: 2018-06-19 19:07:19

Local clock offset: 0.251 ms

Remote clock offset: 0.074 ms

Below is generated by plot.py at 2018-06-19 20:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 136.288 ms

Loss rate: 1.04%

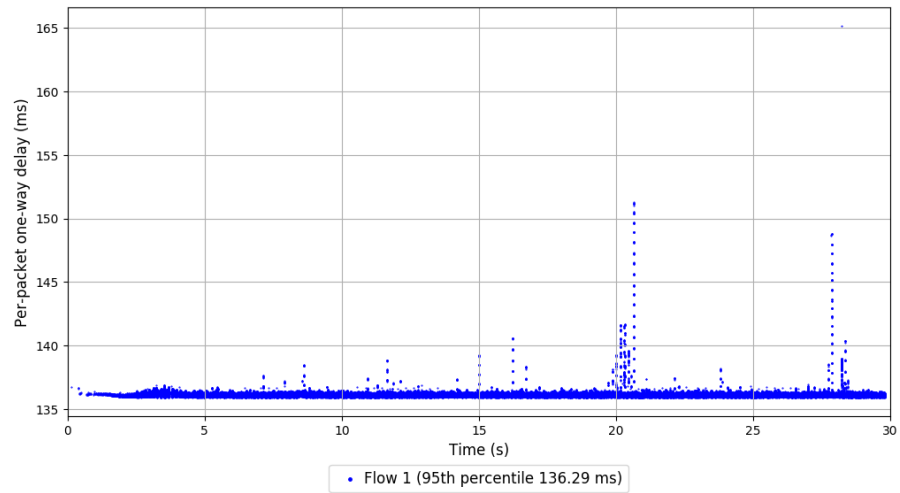
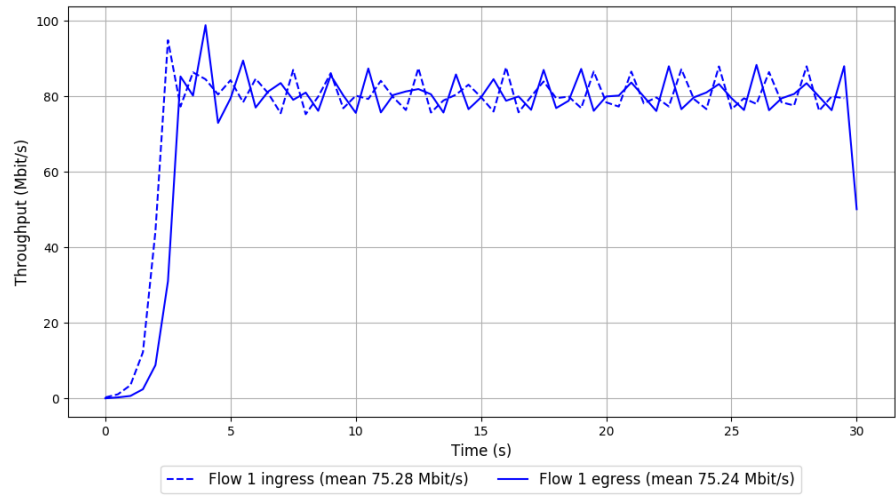
-- Flow 1:

Average throughput: 75.24 Mbit/s

95th percentile per-packet one-way delay: 136.288 ms

Loss rate: 1.04%

Run 6: Report of TCP BBR — Data Link

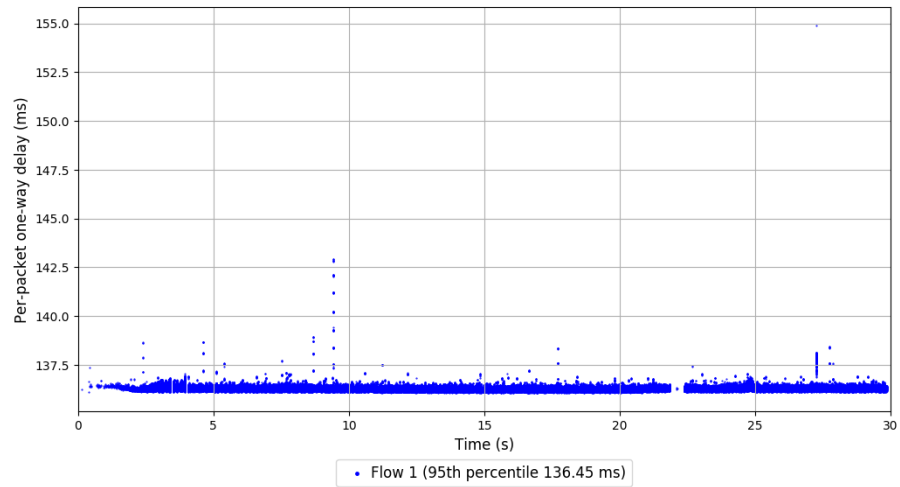
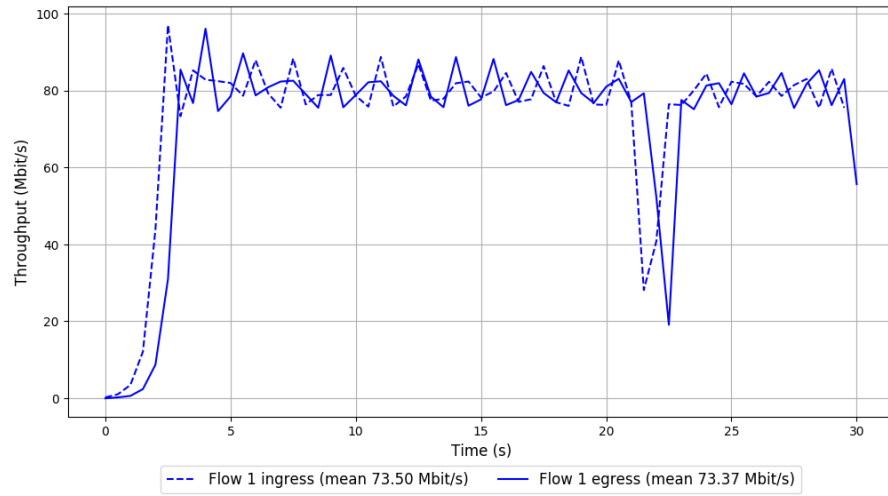


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 19:28:03
End at: 2018-06-19 19:28:33
Local clock offset: 0.106 ms
Remote clock offset: -0.283 ms

Below is generated by plot.py at 2018-06-19 20:43:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 136.452 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 136.452 ms
Loss rate: 0.97%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-06-19 19:49:50

End at: 2018-06-19 19:50:20

Local clock offset: -0.105 ms

Remote clock offset: 0.336 ms

Below is generated by plot.py at 2018-06-19 20:43:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 135.568 ms

Loss rate: 0.96%

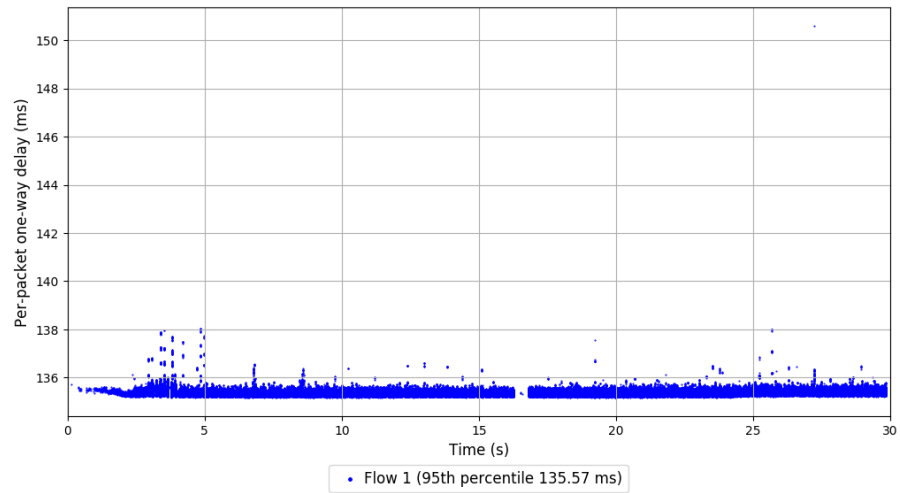
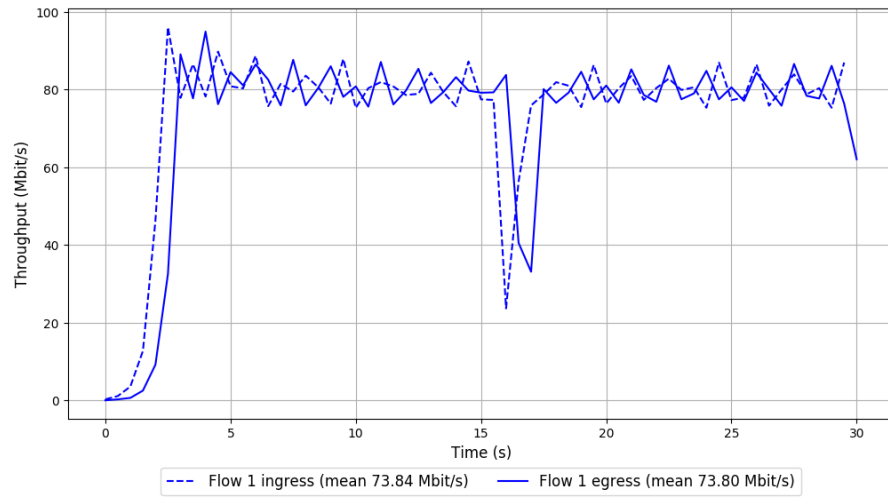
-- Flow 1:

Average throughput: 73.80 Mbit/s

95th percentile per-packet one-way delay: 135.568 ms

Loss rate: 0.96%

Run 8: Report of TCP BBR — Data Link

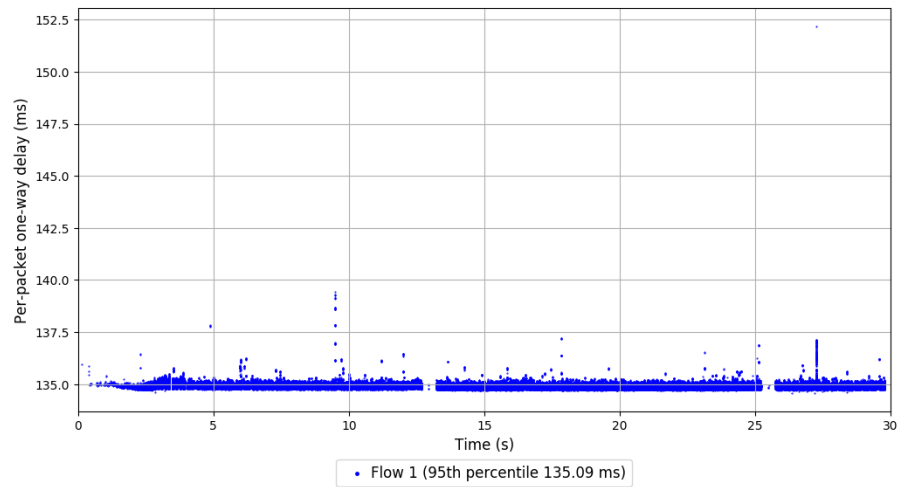
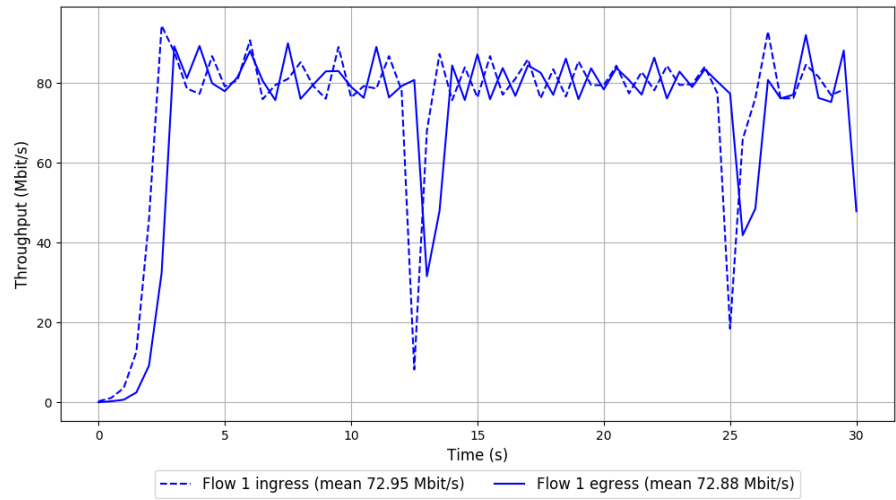


Run 9: Statistics of TCP BBR

Start at: 2018-06-19 20:11:11
End at: 2018-06-19 20:11:41
Local clock offset: -0.135 ms
Remote clock offset: -0.048 ms

Below is generated by plot.py at 2018-06-19 20:44:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 135.088 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 135.088 ms
Loss rate: 1.07%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 20:32:09

End at: 2018-06-19 20:32:39

Local clock offset: -0.197 ms

Remote clock offset: 0.059 ms

Below is generated by plot.py at 2018-06-19 20:44:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.93%

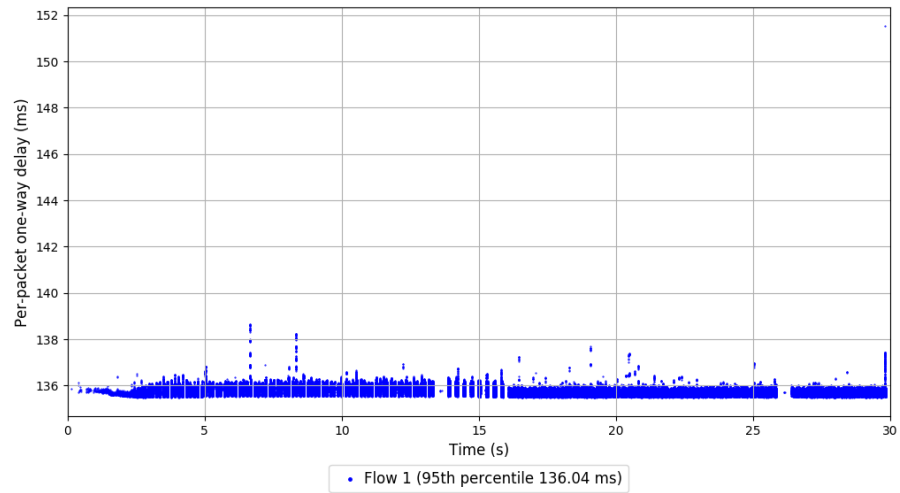
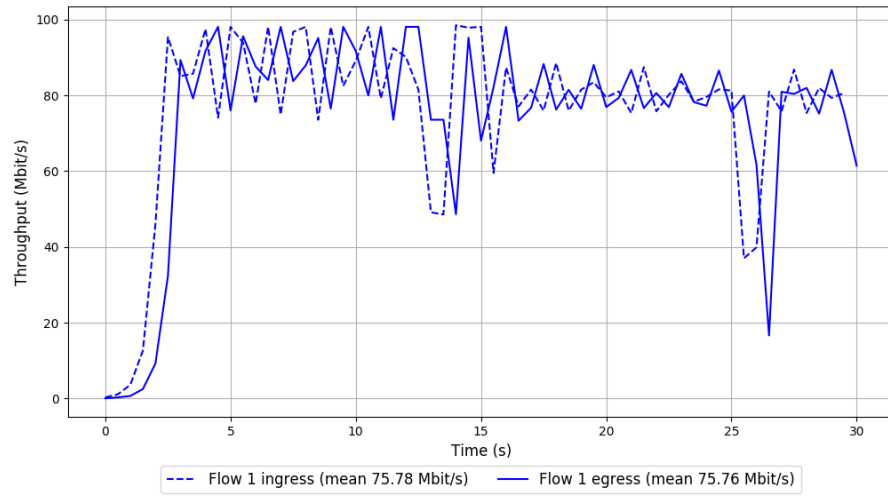
-- Flow 1:

Average throughput: 75.76 Mbit/s

95th percentile per-packet one-way delay: 136.036 ms

Loss rate: 0.93%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-19 17:03:14

End at: 2018-06-19 17:03:44

Local clock offset: -0.102 ms

Remote clock offset: 0.017 ms

Below is generated by plot.py at 2018-06-19 20:48:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 180.94 Mbit/s

95th percentile per-packet one-way delay: 139.233 ms

Loss rate: 0.54%

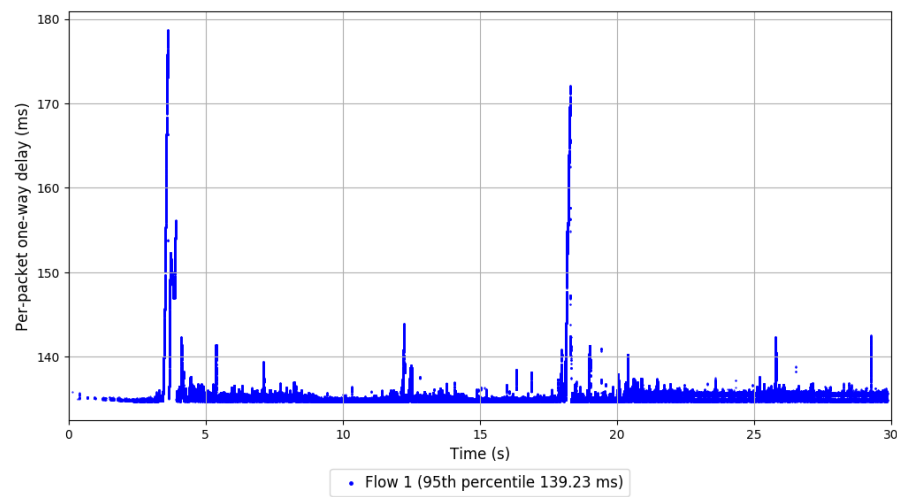
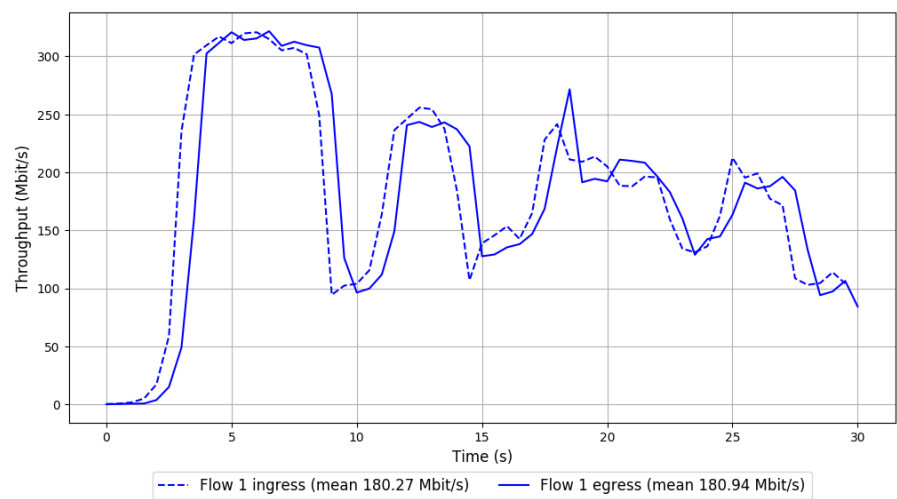
-- Flow 1:

Average throughput: 180.94 Mbit/s

95th percentile per-packet one-way delay: 139.233 ms

Loss rate: 0.54%

Run 1: Report of Copa — Data Link

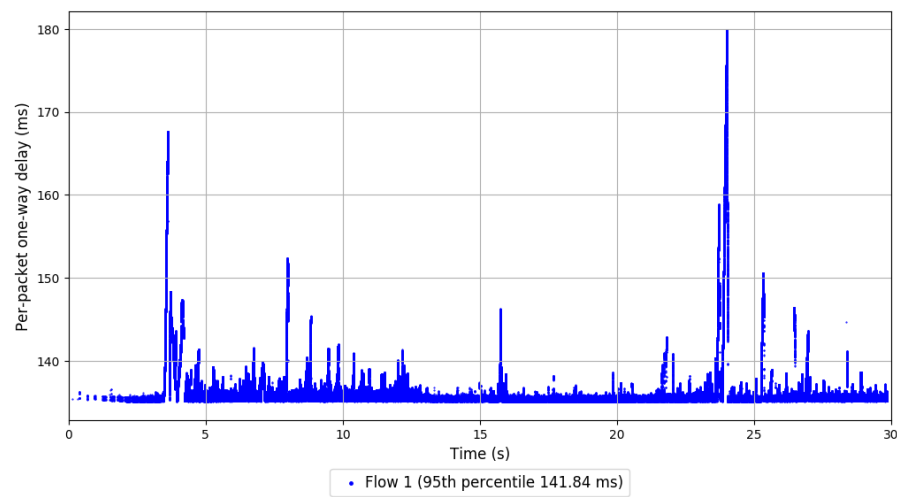
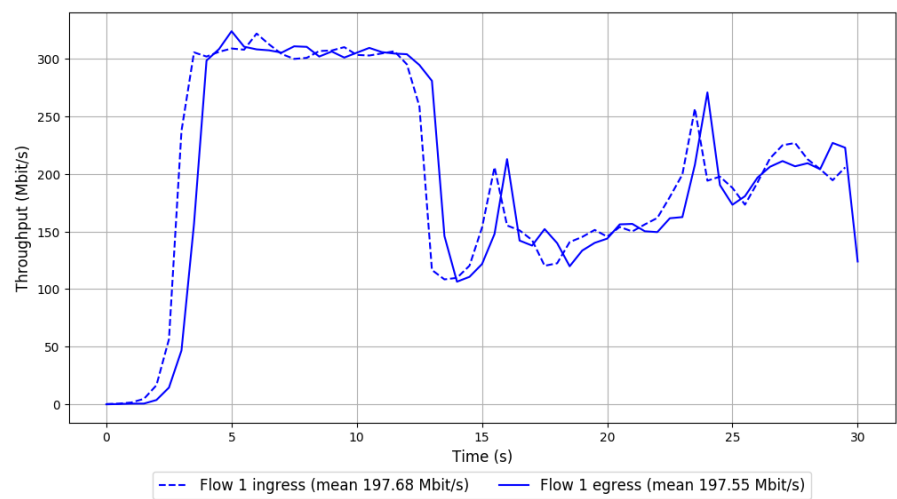


Run 2: Statistics of Copa

Start at: 2018-06-19 17:24:28
End at: 2018-06-19 17:24:58
Local clock offset: -0.164 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-19 20:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 197.55 Mbit/s
95th percentile per-packet one-way delay: 141.841 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 197.55 Mbit/s
95th percentile per-packet one-way delay: 141.841 ms
Loss rate: 0.97%

Run 2: Report of Copa — Data Link

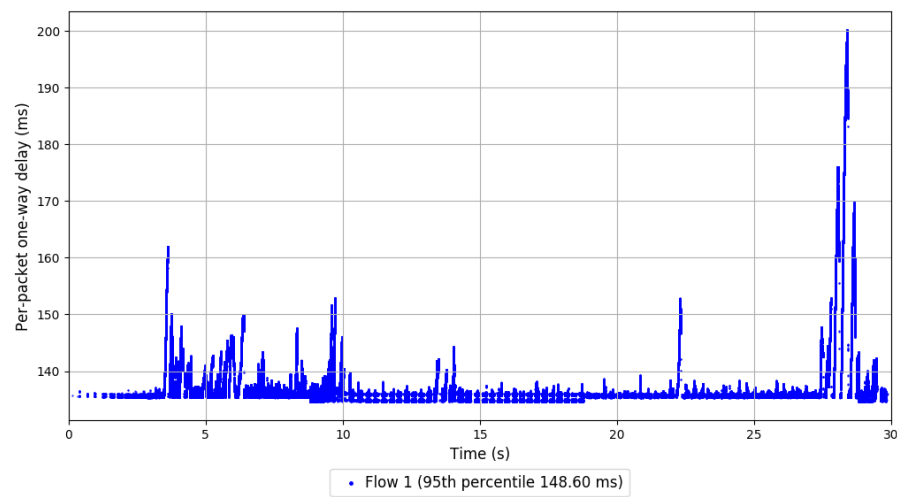
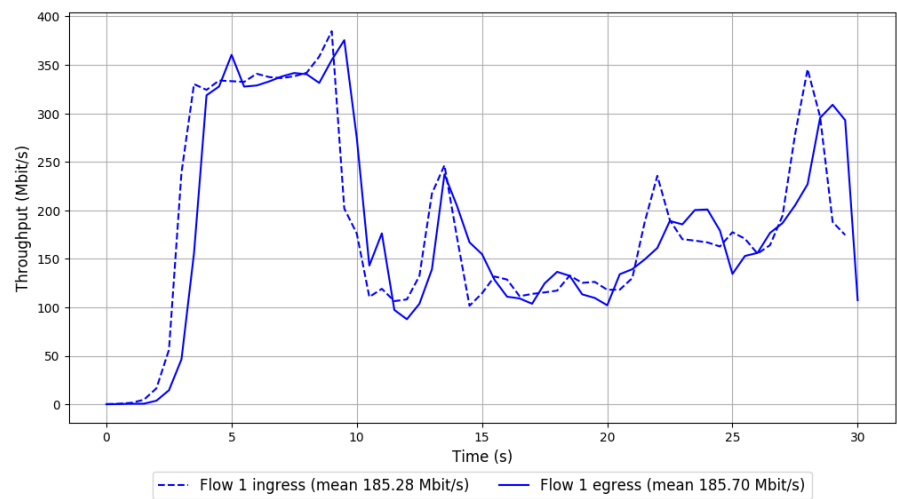


Run 3: Statistics of Copa

Start at: 2018-06-19 17:45:25
End at: 2018-06-19 17:45:55
Local clock offset: 0.02 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-19 20:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 185.70 Mbit/s
95th percentile per-packet one-way delay: 148.599 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 185.70 Mbit/s
95th percentile per-packet one-way delay: 148.599 ms
Loss rate: 0.68%

Run 3: Report of Copa — Data Link

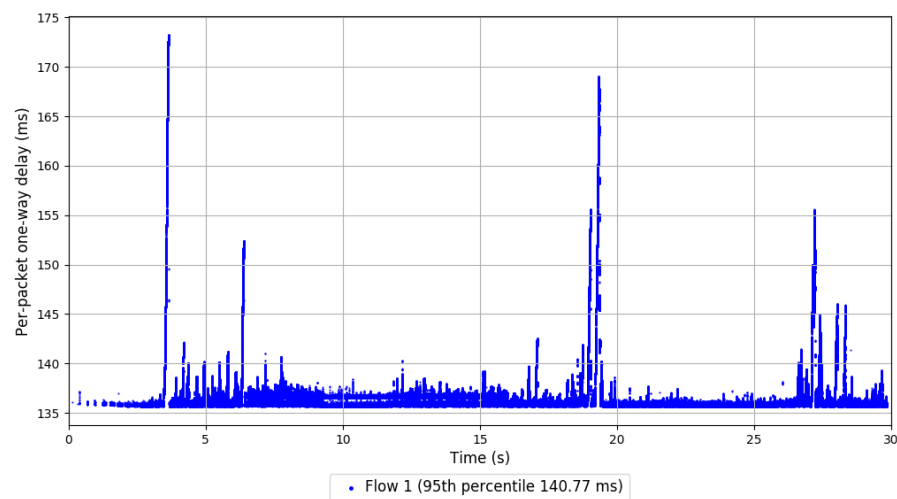
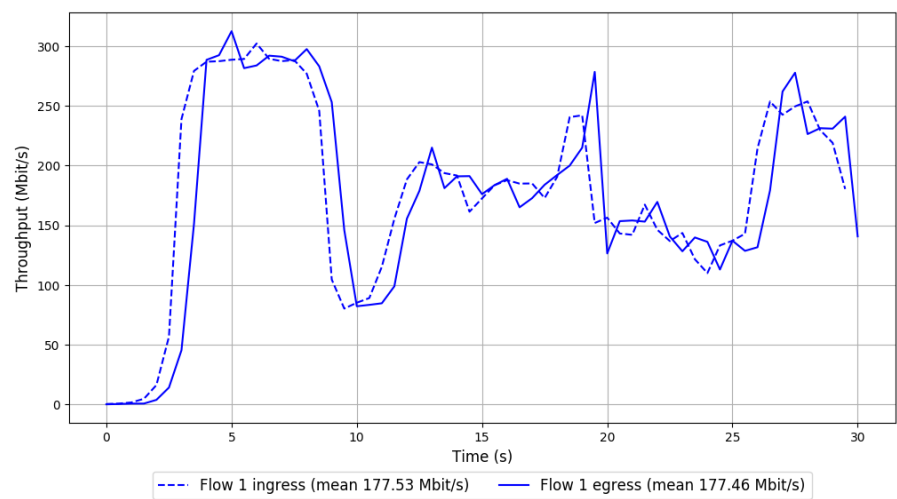


Run 4: Statistics of Copa

Start at: 2018-06-19 18:06:38
End at: 2018-06-19 18:07:08
Local clock offset: 0.027 ms
Remote clock offset: -0.006 ms

Below is generated by plot.py at 2018-06-19 20:49:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.46 Mbit/s
95th percentile per-packet one-way delay: 140.773 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 177.46 Mbit/s
95th percentile per-packet one-way delay: 140.773 ms
Loss rate: 0.94%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-06-19 18:27:18

End at: 2018-06-19 18:27:48

Local clock offset: -0.043 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-19 20:49:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 142.963 ms

Loss rate: 1.50%

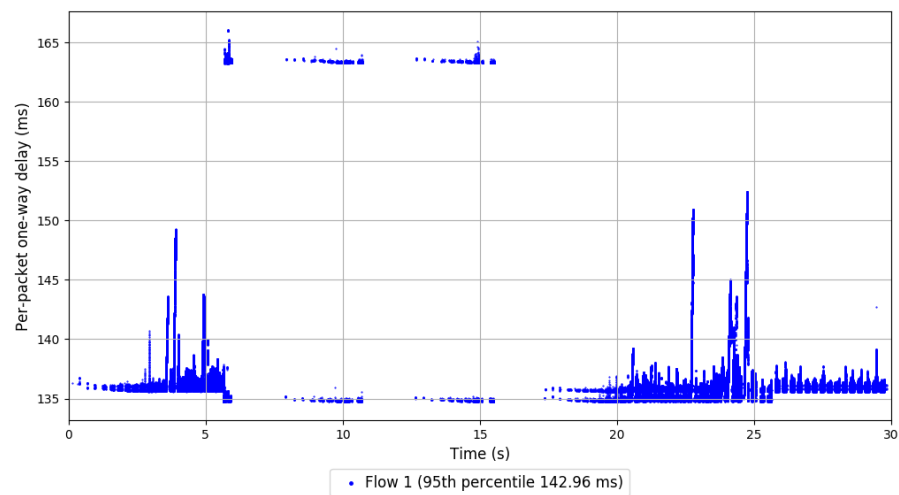
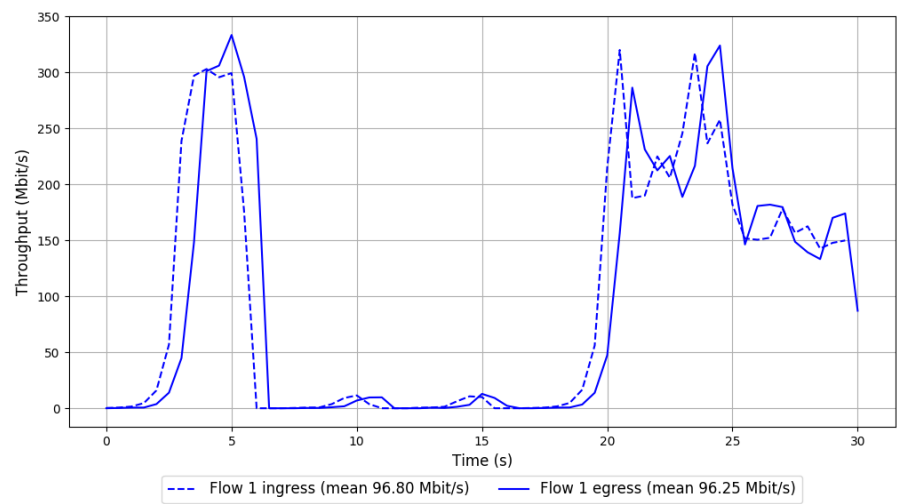
-- Flow 1:

Average throughput: 96.25 Mbit/s

95th percentile per-packet one-way delay: 142.963 ms

Loss rate: 1.50%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-06-19 18:48:16

End at: 2018-06-19 18:48:46

Local clock offset: 0.046 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-19 20:50:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 225.76 Mbit/s

95th percentile per-packet one-way delay: 163.157 ms

Loss rate: 0.96%

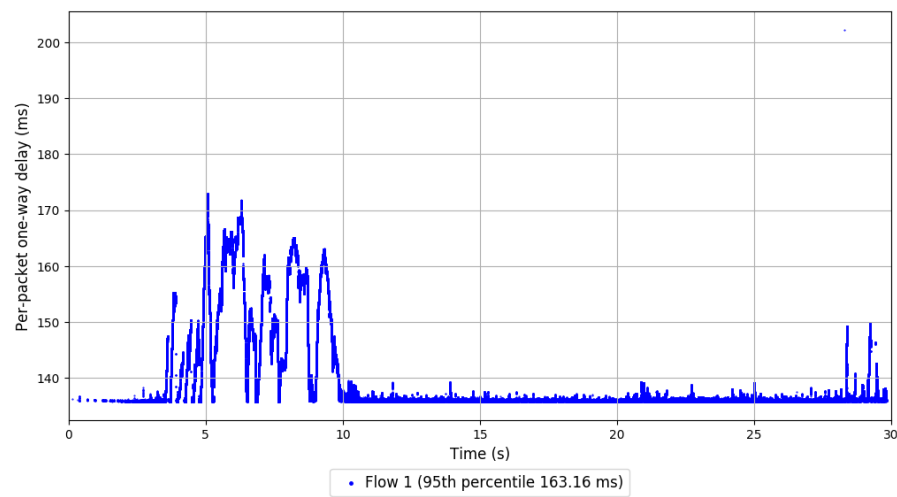
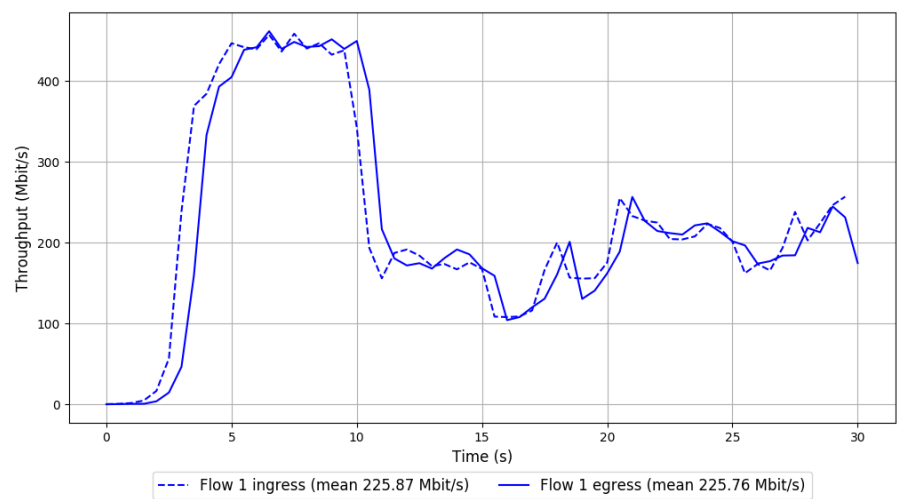
-- Flow 1:

Average throughput: 225.76 Mbit/s

95th percentile per-packet one-way delay: 163.157 ms

Loss rate: 0.96%

Run 6: Report of Copa — Data Link

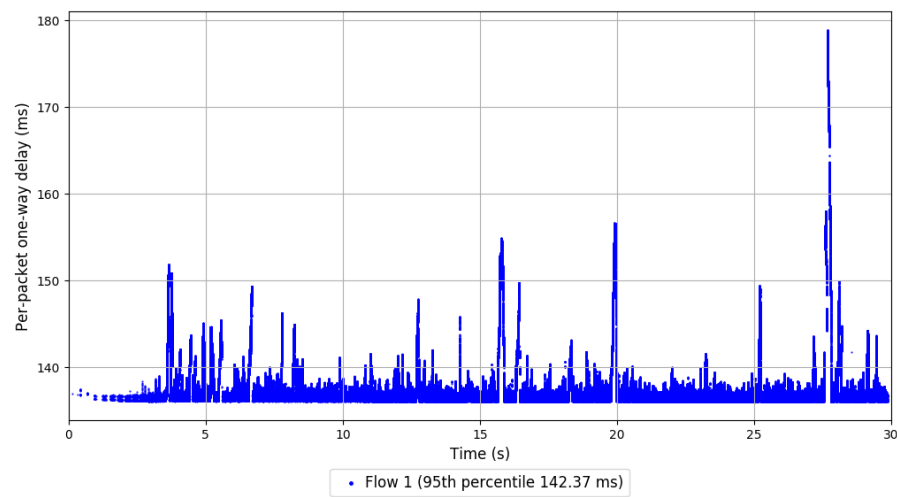
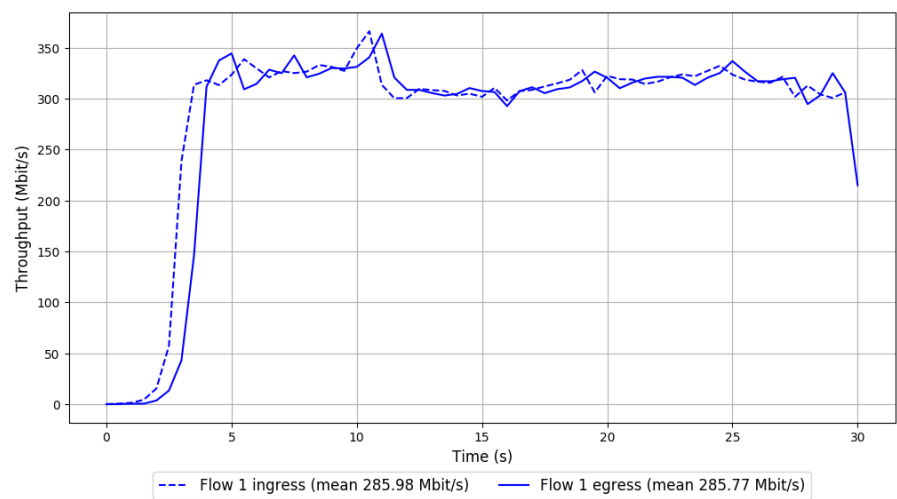


Run 7: Statistics of Copa

Start at: 2018-06-19 19:09:13
End at: 2018-06-19 19:09:43
Local clock offset: 0.038 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-06-19 20:53:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 285.77 Mbit/s
95th percentile per-packet one-way delay: 142.366 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 285.77 Mbit/s
95th percentile per-packet one-way delay: 142.366 ms
Loss rate: 0.98%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-06-19 19:30:46

End at: 2018-06-19 19:31:16

Local clock offset: 0.093 ms

Remote clock offset: 0.061 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 136.63 Mbit/s

95th percentile per-packet one-way delay: 143.189 ms

Loss rate: 0.62%

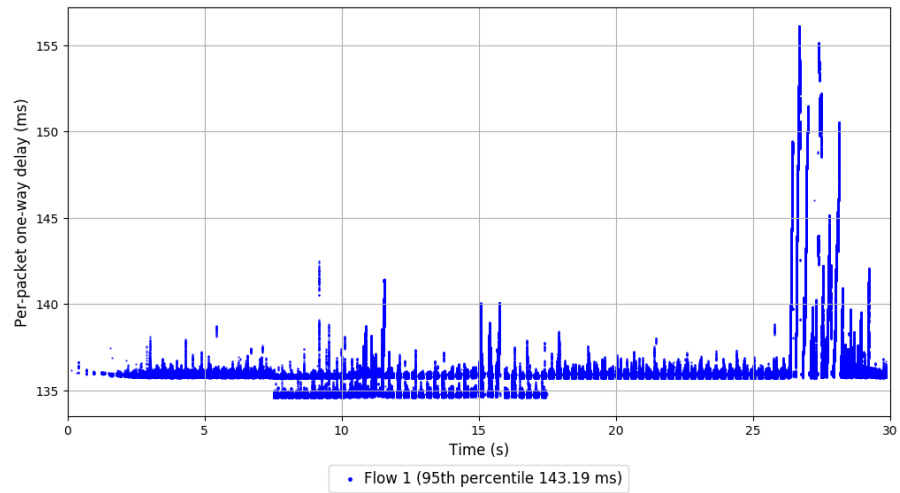
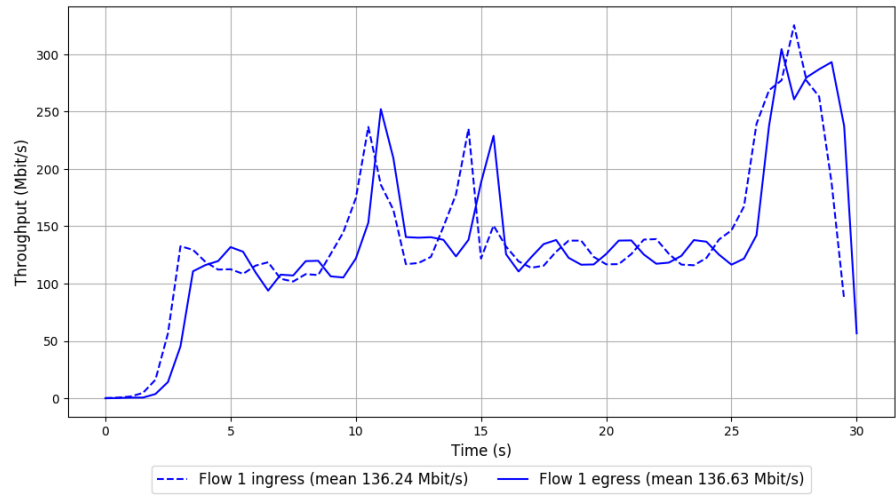
-- Flow 1:

Average throughput: 136.63 Mbit/s

95th percentile per-packet one-way delay: 143.189 ms

Loss rate: 0.62%

Run 8: Report of Copa — Data Link

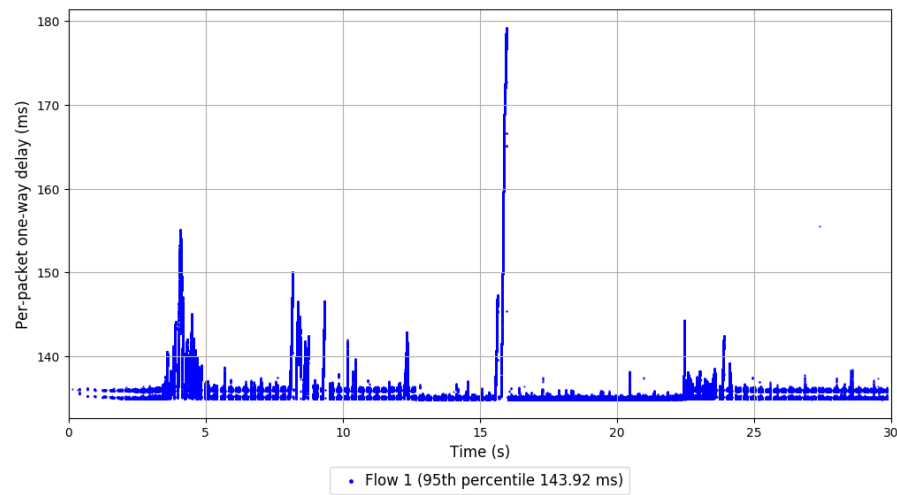
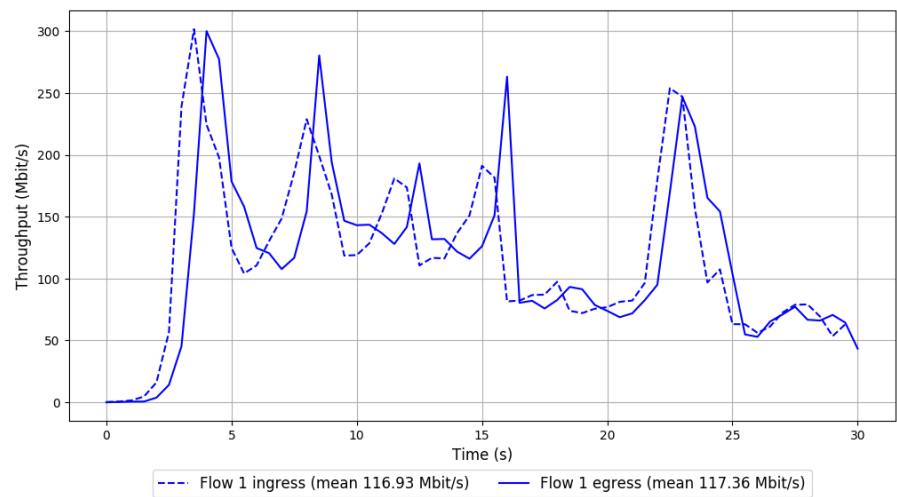


Run 9: Statistics of Copa

Start at: 2018-06-19 19:52:31
End at: 2018-06-19 19:53:01
Local clock offset: -0.025 ms
Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 20:53:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 117.36 Mbit/s
95th percentile per-packet one-way delay: 143.919 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 117.36 Mbit/s
95th percentile per-packet one-way delay: 143.919 ms
Loss rate: 0.54%

Run 9: Report of Copa — Data Link

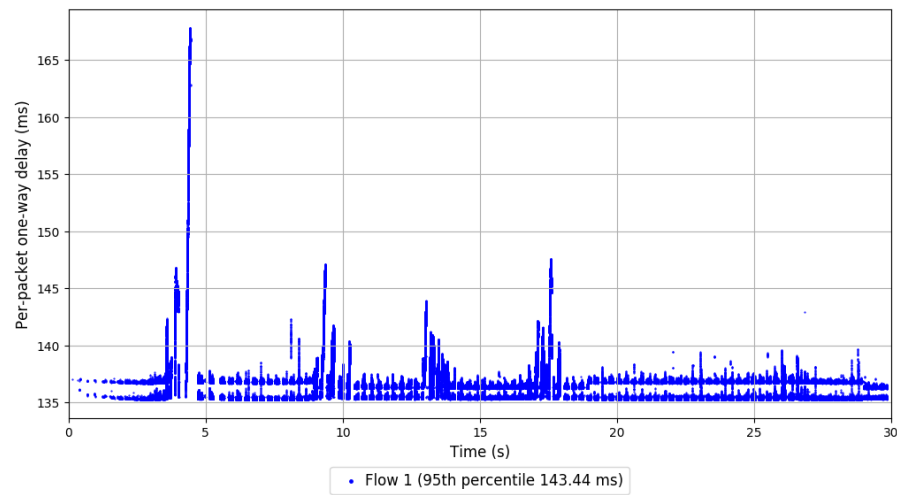
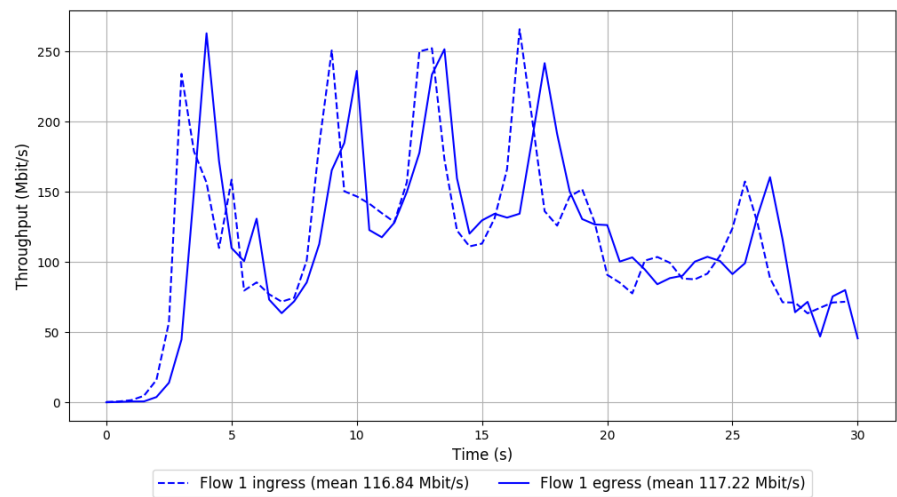


Run 10: Statistics of Copa

Start at: 2018-06-19 20:13:35
End at: 2018-06-19 20:14:05
Local clock offset: 0.002 ms
Remote clock offset: -0.443 ms

Below is generated by plot.py at 2018-06-19 20:53:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 117.22 Mbit/s
95th percentile per-packet one-way delay: 143.436 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 117.22 Mbit/s
95th percentile per-packet one-way delay: 143.436 ms
Loss rate: 0.59%

Run 10: Report of Copa — Data Link

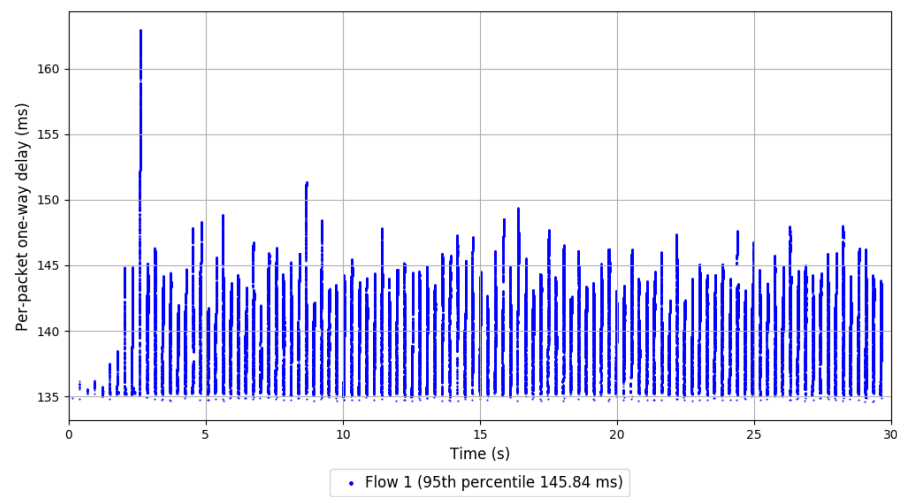
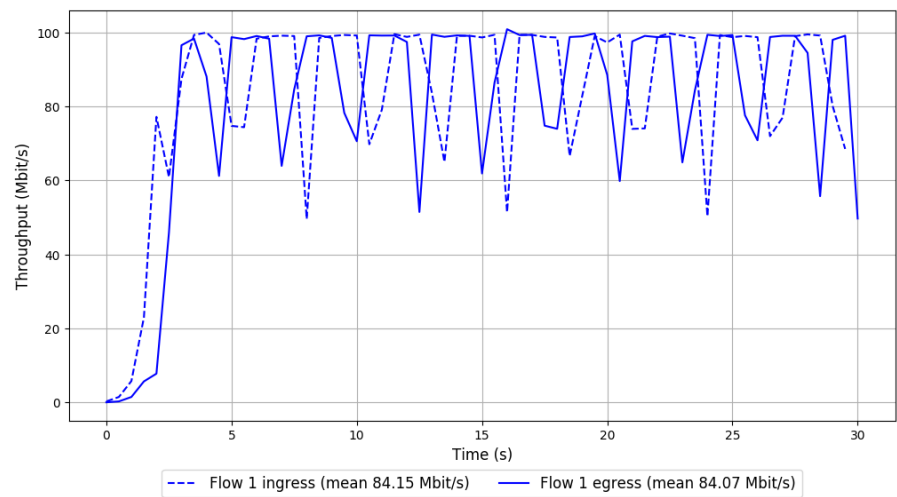


Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 17:17:15
End at: 2018-06-19 17:17:45
Local clock offset: -0.076 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-06-19 20:53:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.07 Mbit/s
95th percentile per-packet one-way delay: 145.839 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 84.07 Mbit/s
95th percentile per-packet one-way delay: 145.839 ms
Loss rate: 0.98%

Run 1: Report of TCP Cubic — Data Link

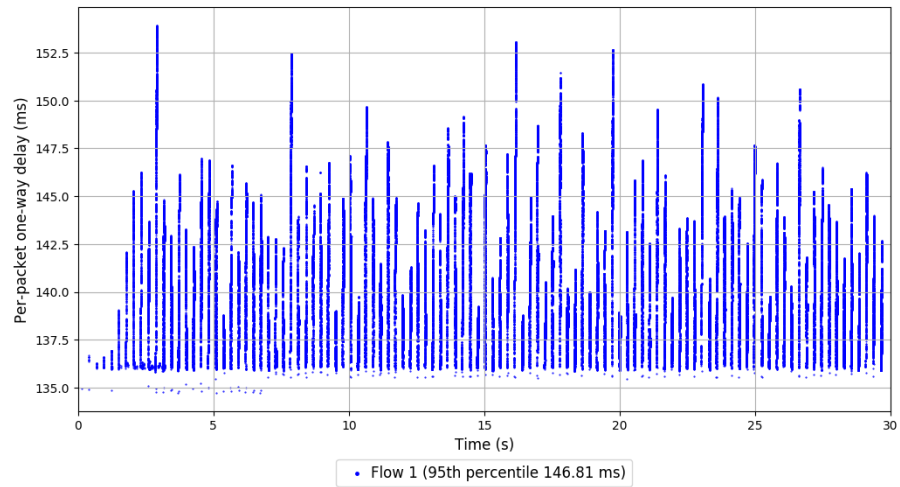
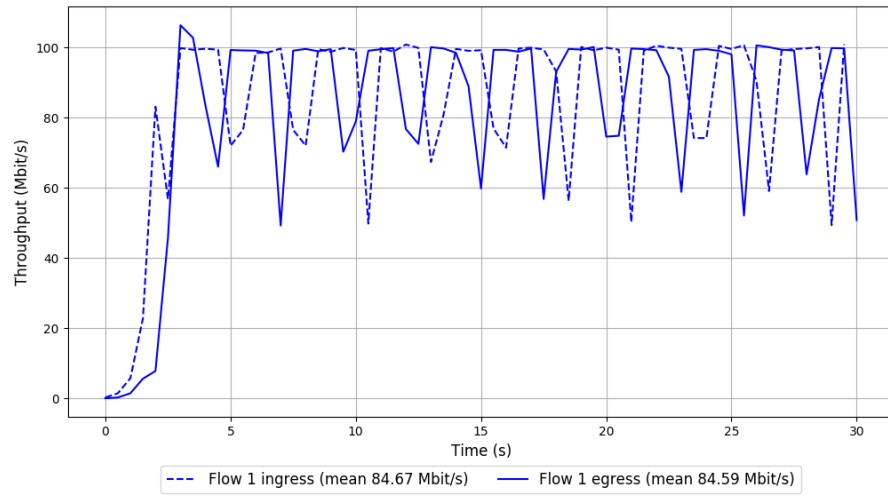


Run 2: Statistics of TCP Cubic

Start at: 2018-06-19 17:38:17
End at: 2018-06-19 17:38:47
Local clock offset: -0.268 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-06-19 20:53:36
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 146.807 ms
Loss rate: 0.99%
-- Flow 1:
Average throughput: 84.59 Mbit/s
95th percentile per-packet one-way delay: 146.807 ms
Loss rate: 0.99%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 17:59:28

End at: 2018-06-19 17:59:58

Local clock offset: -0.144 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.00 Mbit/s

95th percentile per-packet one-way delay: 146.137 ms

Loss rate: 0.99%

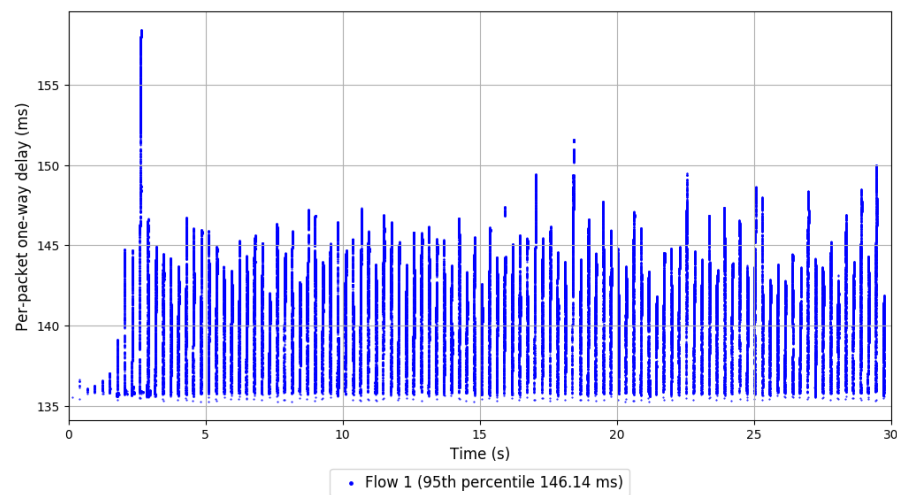
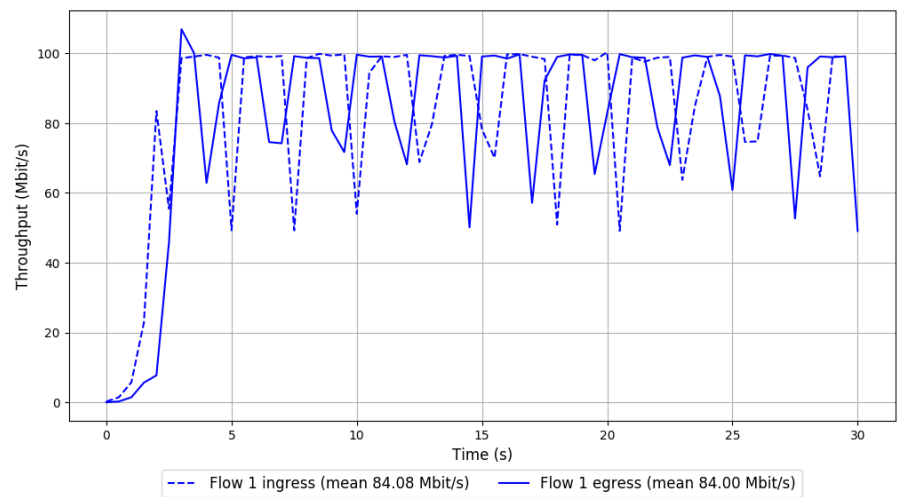
-- Flow 1:

Average throughput: 84.00 Mbit/s

95th percentile per-packet one-way delay: 146.137 ms

Loss rate: 0.99%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 18:20:09

End at: 2018-06-19 18:20:39

Local clock offset: -0.046 ms

Remote clock offset: 0.315 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 145.194 ms

Loss rate: 0.55%

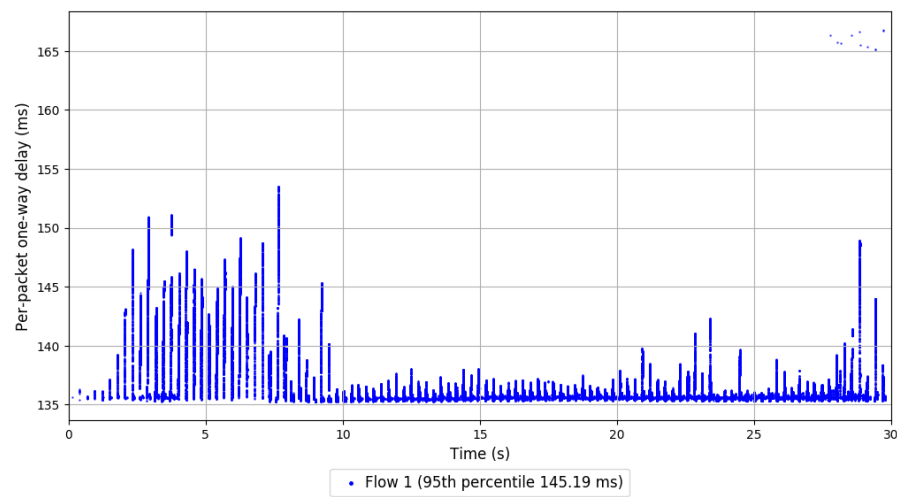
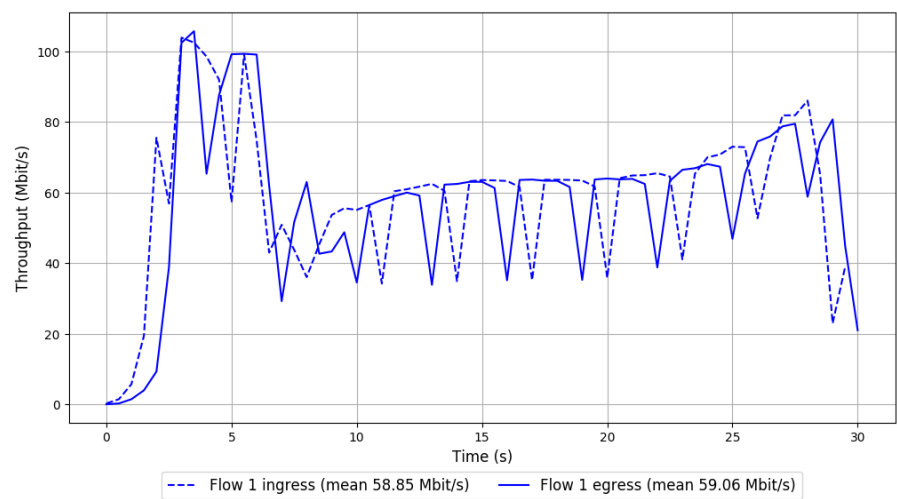
-- Flow 1:

Average throughput: 59.06 Mbit/s

95th percentile per-packet one-way delay: 145.194 ms

Loss rate: 0.55%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 18:41:11

End at: 2018-06-19 18:41:41

Local clock offset: 0.062 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 145.404 ms

Loss rate: 0.75%

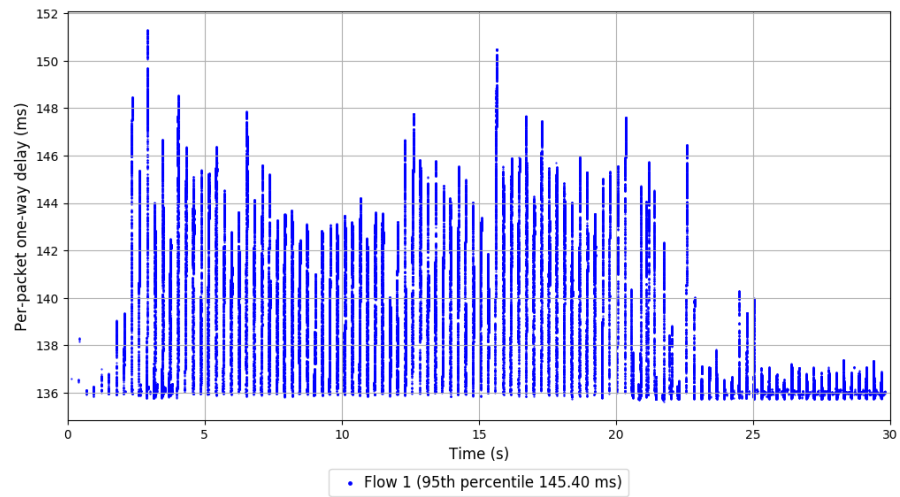
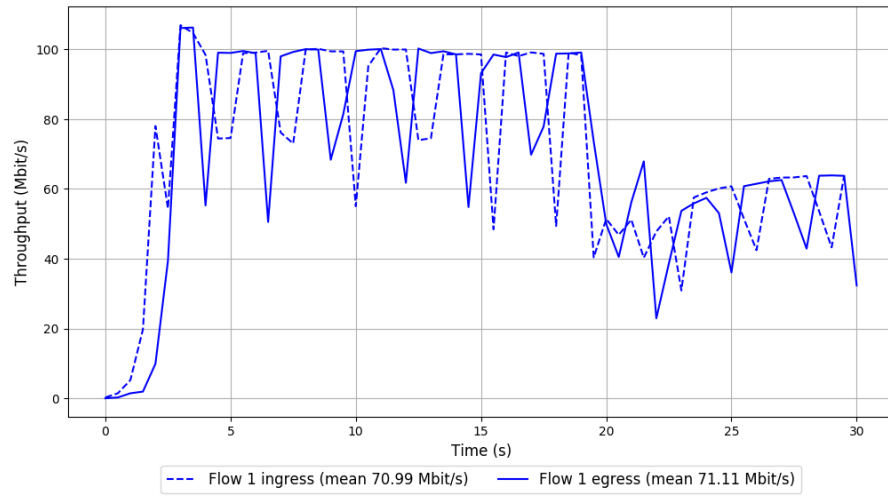
-- Flow 1:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 145.404 ms

Loss rate: 0.75%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 19:02:10

End at: 2018-06-19 19:02:40

Local clock offset: -0.054 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 144.458 ms

Loss rate: 1.65%

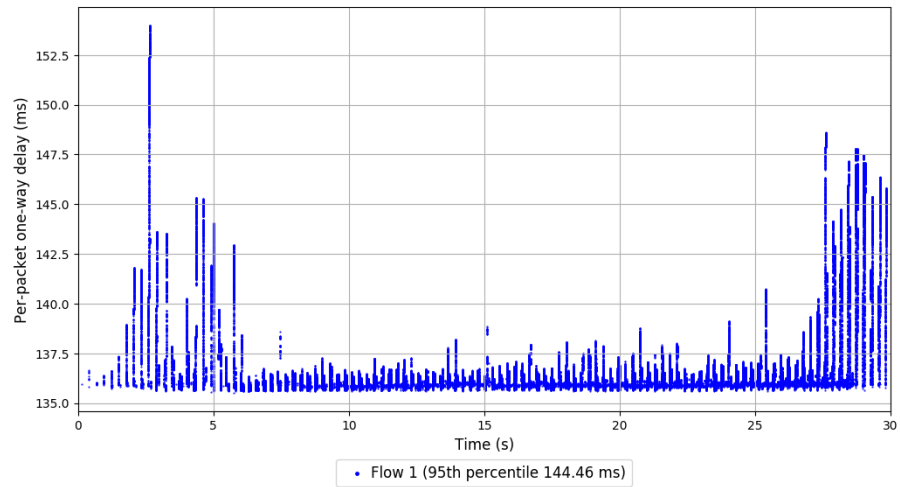
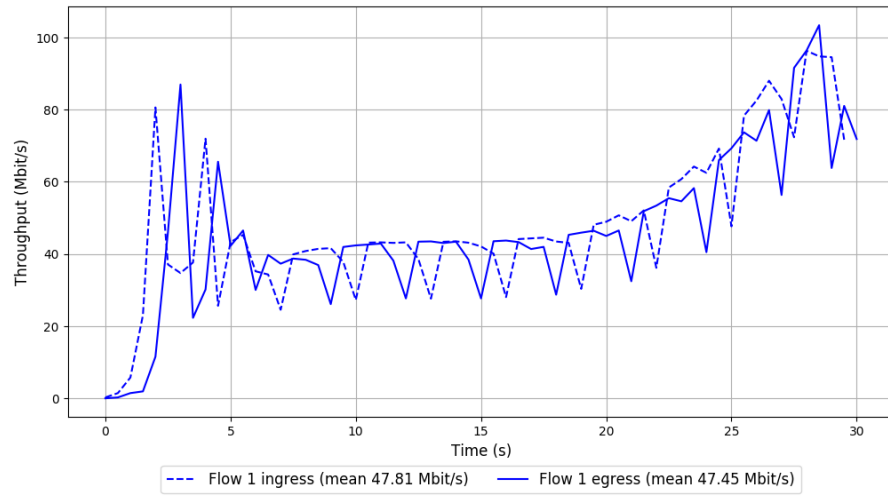
-- Flow 1:

Average throughput: 47.45 Mbit/s

95th percentile per-packet one-way delay: 144.458 ms

Loss rate: 1.65%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 19:23:17

End at: 2018-06-19 19:23:47

Local clock offset: -0.096 ms

Remote clock offset: 0.084 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 79.57 Mbit/s

95th percentile per-packet one-way delay: 146.670 ms

Loss rate: 0.54%

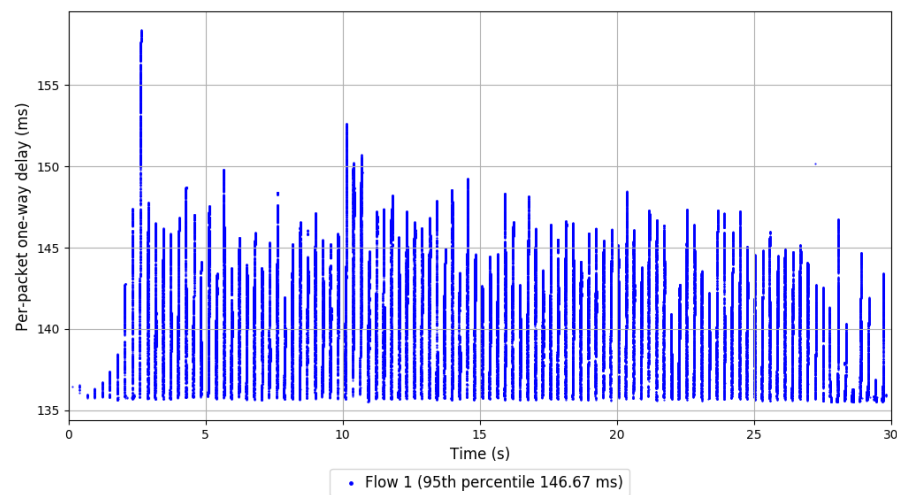
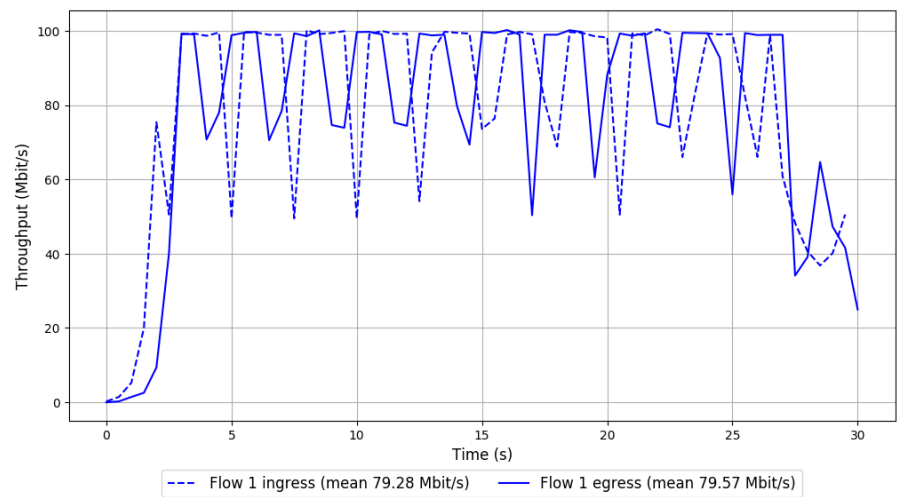
-- Flow 1:

Average throughput: 79.57 Mbit/s

95th percentile per-packet one-way delay: 146.670 ms

Loss rate: 0.54%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 19:45:02

End at: 2018-06-19 19:45:32

Local clock offset: 0.291 ms

Remote clock offset: 0.007 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 65.96 Mbit/s

95th percentile per-packet one-way delay: 140.166 ms

Loss rate: 1.17%

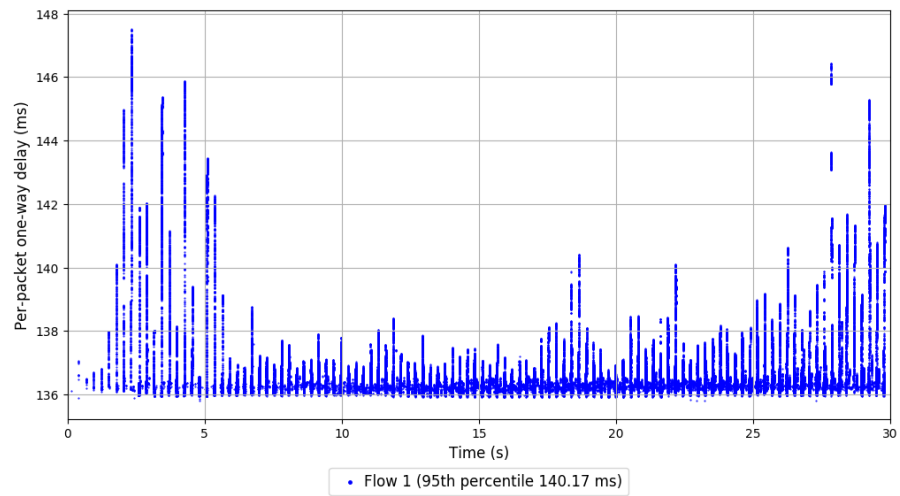
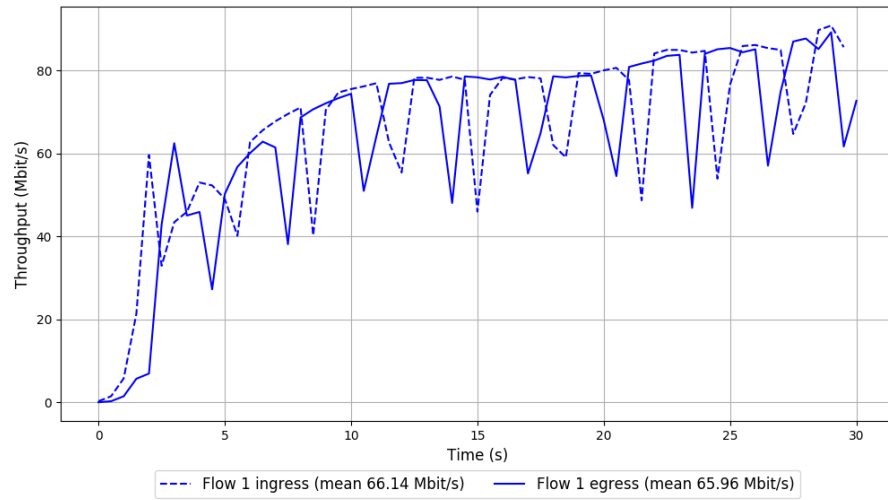
-- Flow 1:

Average throughput: 65.96 Mbit/s

95th percentile per-packet one-way delay: 140.166 ms

Loss rate: 1.17%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 20:06:25

End at: 2018-06-19 20:06:55

Local clock offset: -0.162 ms

Remote clock offset: -0.44 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 143.693 ms

Loss rate: 1.55%

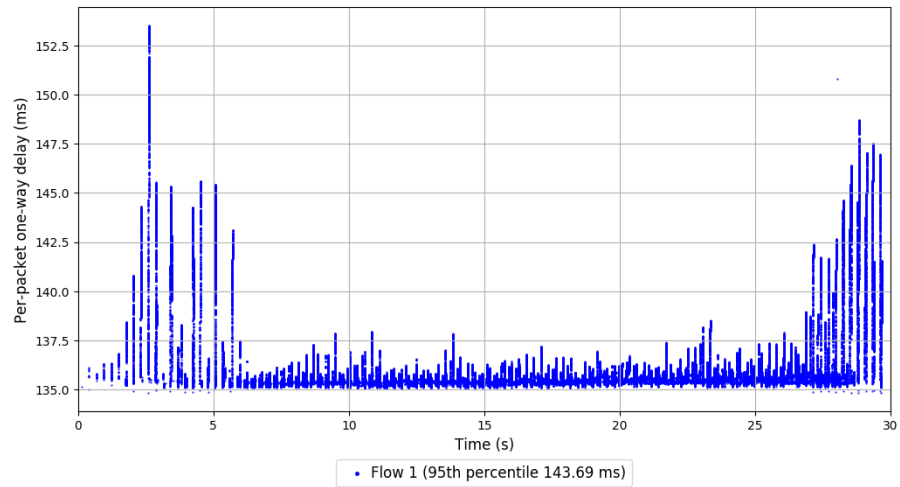
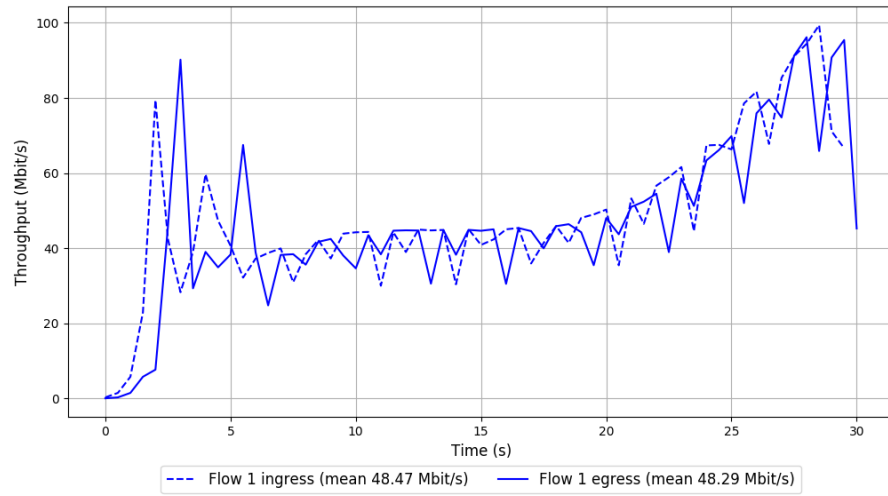
-- Flow 1:

Average throughput: 48.29 Mbit/s

95th percentile per-packet one-way delay: 143.693 ms

Loss rate: 1.55%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 20:27:28

End at: 2018-06-19 20:27:58

Local clock offset: -0.149 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-19 20:53:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 144.762 ms

Loss rate: 0.64%

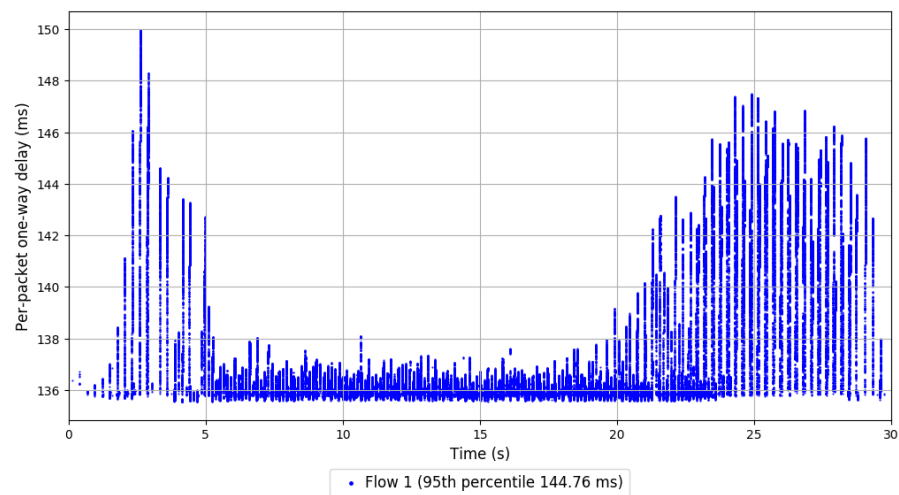
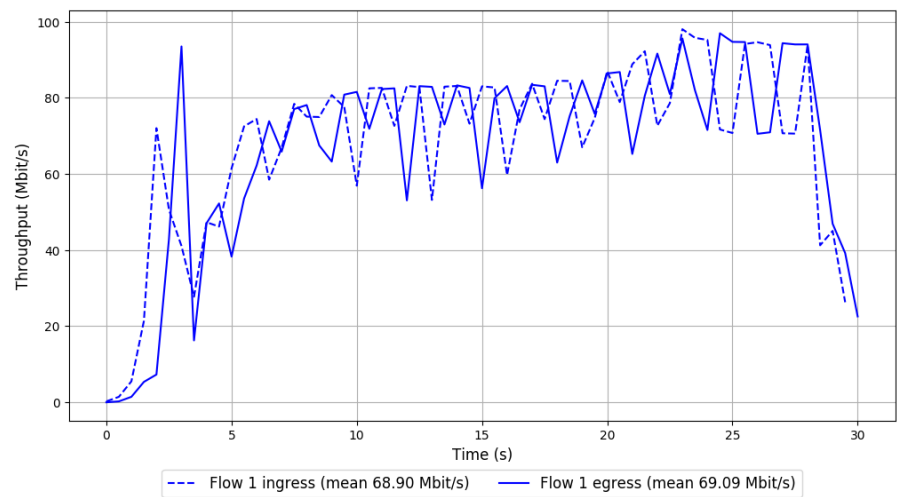
-- Flow 1:

Average throughput: 69.09 Mbit/s

95th percentile per-packet one-way delay: 144.762 ms

Loss rate: 0.64%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-19 17:08:16

End at: 2018-06-19 17:08:46

Local clock offset: 0.144 ms

Remote clock offset: -0.07 ms

Below is generated by plot.py at 2018-06-19 21:06:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.45 Mbit/s

95th percentile per-packet one-way delay: 208.469 ms

Loss rate: 2.77%

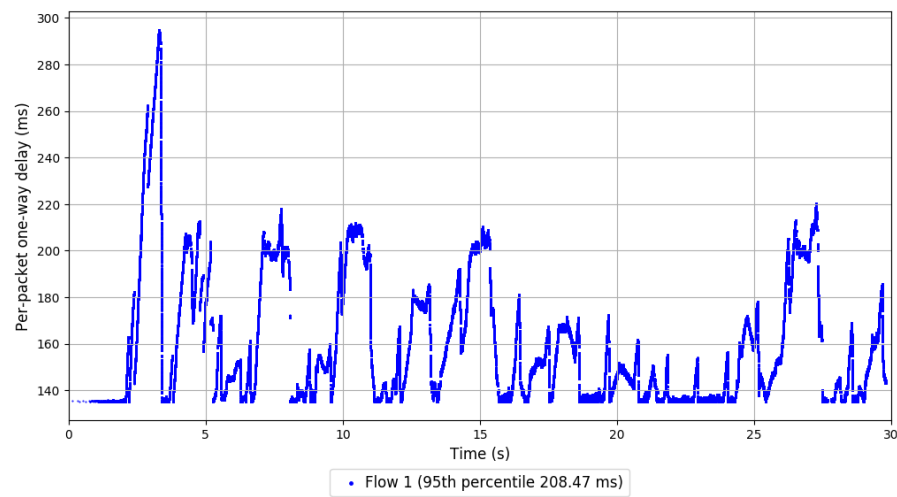
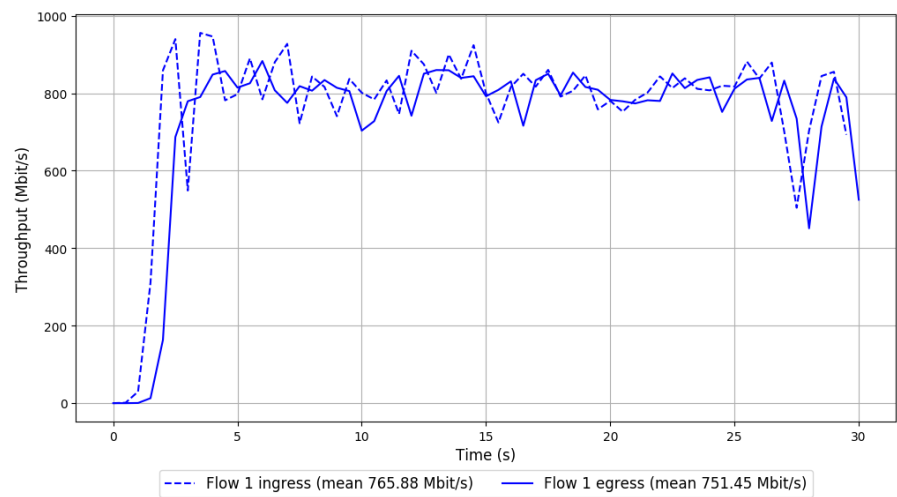
-- Flow 1:

Average throughput: 751.45 Mbit/s

95th percentile per-packet one-way delay: 208.469 ms

Loss rate: 2.77%

Run 1: Report of FillP — Data Link

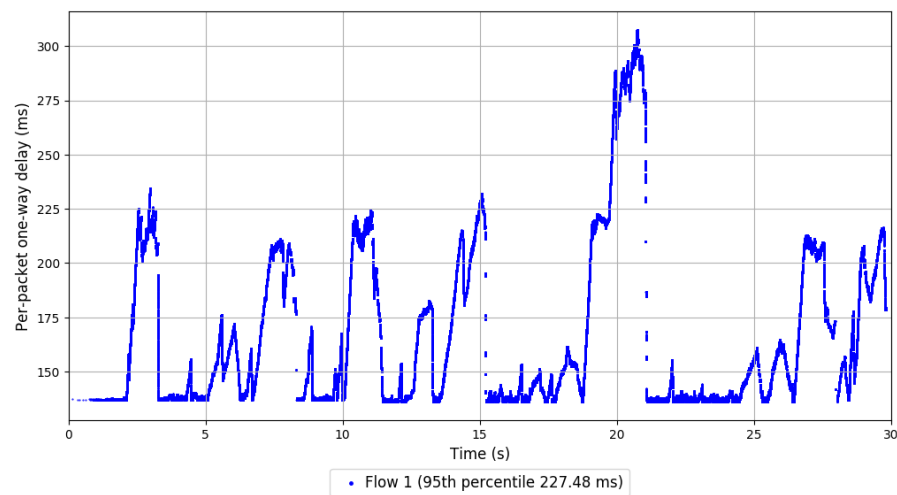
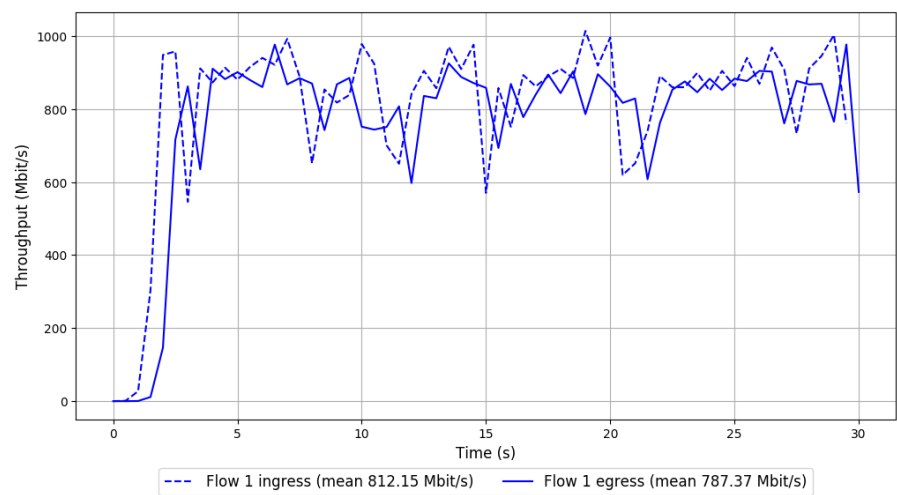


Run 2: Statistics of FillP

Start at: 2018-06-19 17:29:32
End at: 2018-06-19 17:30:02
Local clock offset: -0.009 ms
Remote clock offset: -0.382 ms

Below is generated by plot.py at 2018-06-19 21:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 787.37 Mbit/s
95th percentile per-packet one-way delay: 227.480 ms
Loss rate: 3.93%
-- Flow 1:
Average throughput: 787.37 Mbit/s
95th percentile per-packet one-way delay: 227.480 ms
Loss rate: 3.93%

Run 2: Report of FillP — Data Link

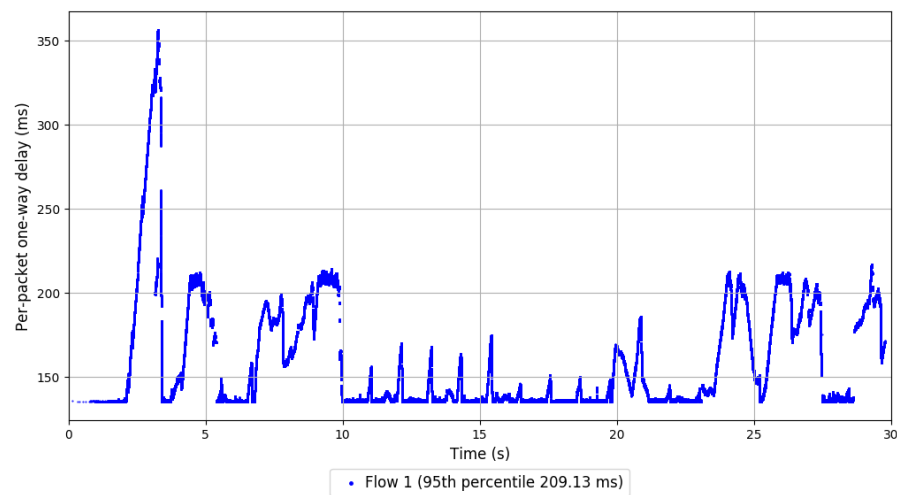
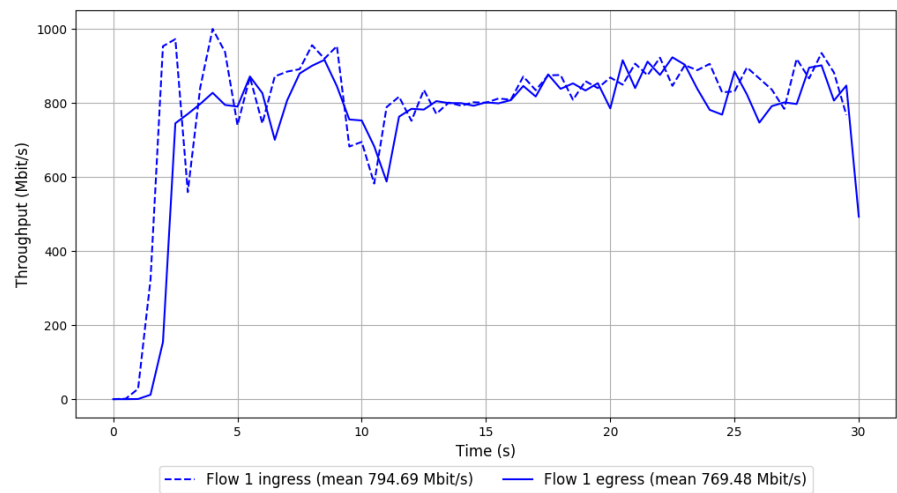


Run 3: Statistics of FillP

Start at: 2018-06-19 17:50:29
End at: 2018-06-19 17:50:59
Local clock offset: -0.031 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-19 21:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 769.48 Mbit/s
95th percentile per-packet one-way delay: 209.130 ms
Loss rate: 4.05%
-- Flow 1:
Average throughput: 769.48 Mbit/s
95th percentile per-packet one-way delay: 209.130 ms
Loss rate: 4.05%

Run 3: Report of FillP — Data Link

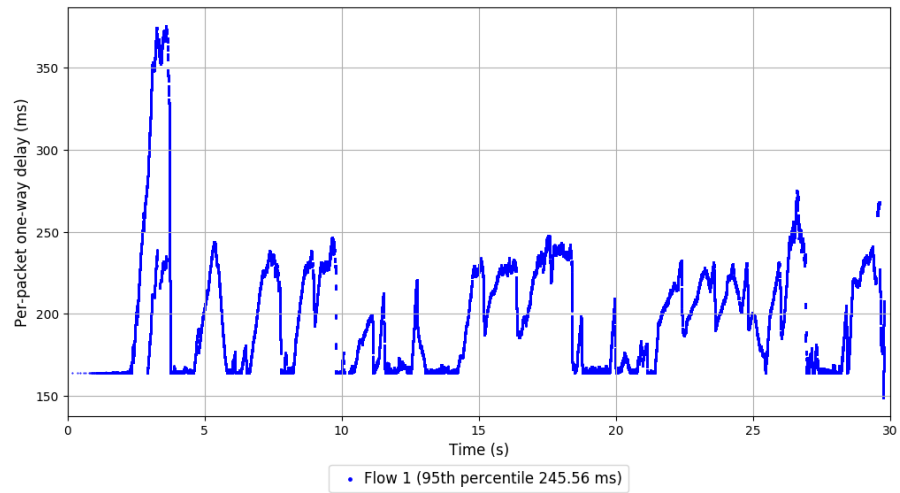
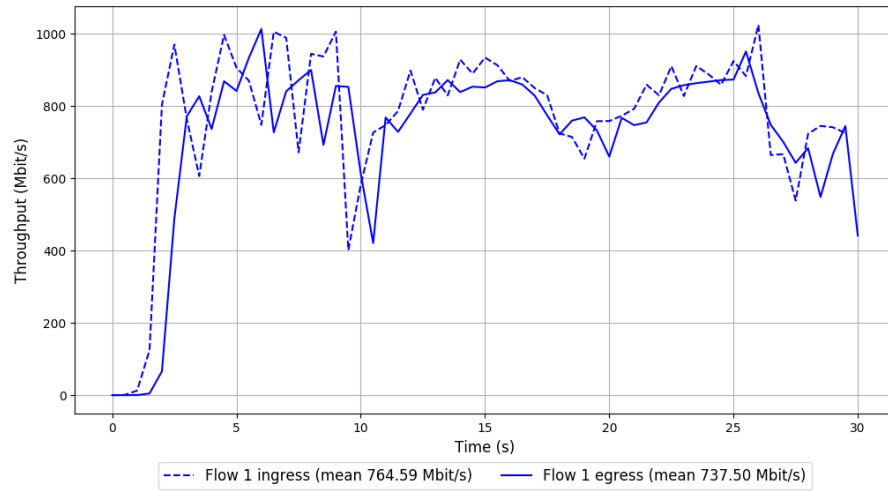


Run 4: Statistics of FillP

Start at: 2018-06-19 18:11:44
End at: 2018-06-19 18:12:14
Local clock offset: 0.005 ms
Remote clock offset: -0.398 ms

Below is generated by plot.py at 2018-06-19 21:07:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 737.50 Mbit/s
95th percentile per-packet one-way delay: 245.561 ms
Loss rate: 4.51%
-- Flow 1:
Average throughput: 737.50 Mbit/s
95th percentile per-packet one-way delay: 245.561 ms
Loss rate: 4.51%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-19 18:32:17

End at: 2018-06-19 18:32:47

Local clock offset: 0.02 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-06-19 21:07:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 654.07 Mbit/s

95th percentile per-packet one-way delay: 265.421 ms

Loss rate: 2.75%

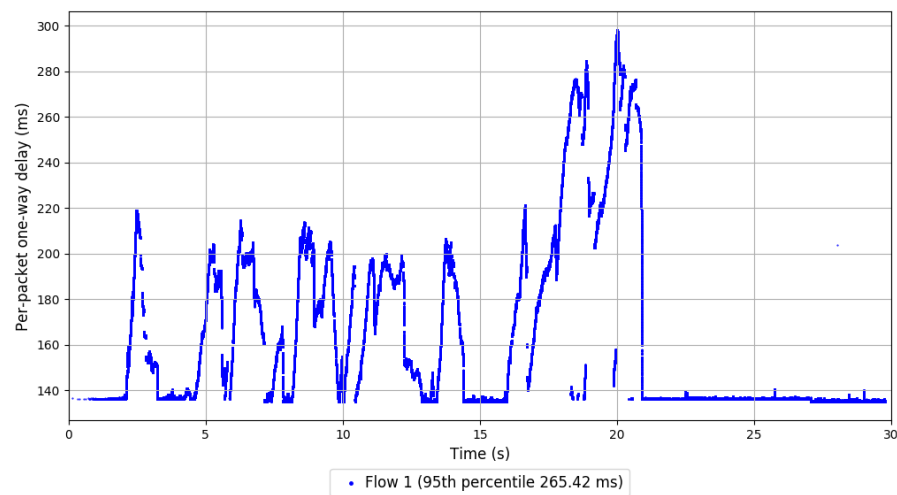
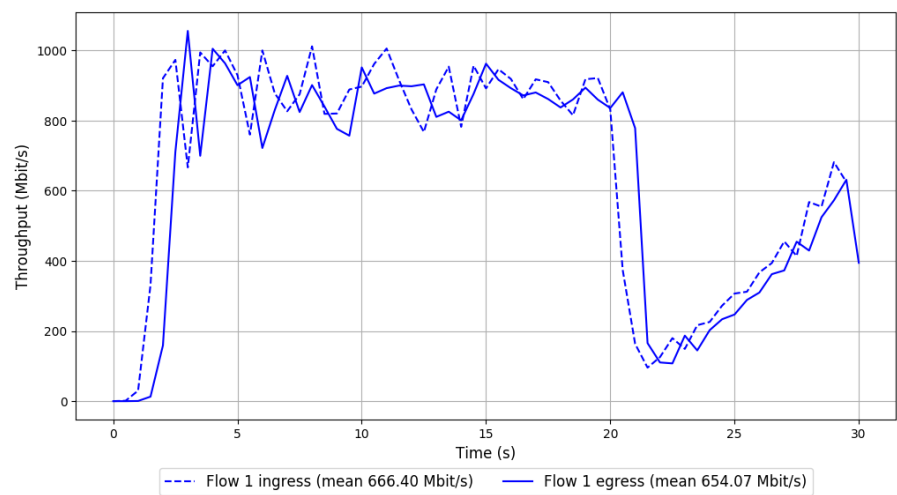
-- Flow 1:

Average throughput: 654.07 Mbit/s

95th percentile per-packet one-way delay: 265.421 ms

Loss rate: 2.75%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-19 18:53:23

End at: 2018-06-19 18:53:53

Local clock offset: 0.039 ms

Remote clock offset: 0.077 ms

Below is generated by plot.py at 2018-06-19 21:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 803.35 Mbit/s

95th percentile per-packet one-way delay: 201.063 ms

Loss rate: 2.65%

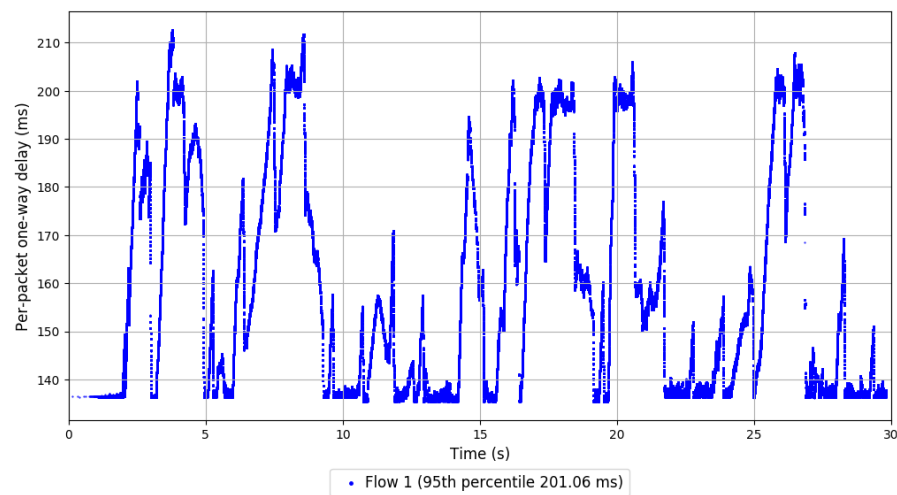
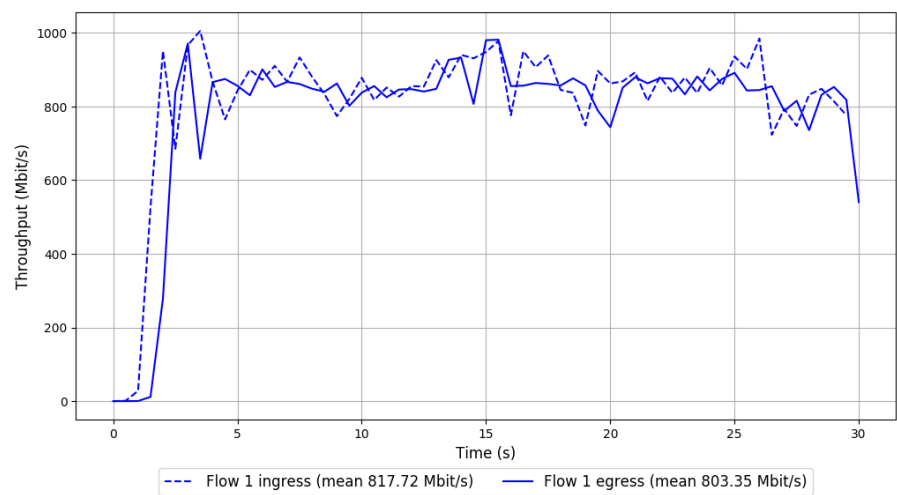
-- Flow 1:

Average throughput: 803.35 Mbit/s

95th percentile per-packet one-way delay: 201.063 ms

Loss rate: 2.65%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 19:14:25

End at: 2018-06-19 19:14:55

Local clock offset: 0.209 ms

Remote clock offset: 0.095 ms

Below is generated by plot.py at 2018-06-19 21:08:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 765.18 Mbit/s

95th percentile per-packet one-way delay: 231.258 ms

Loss rate: 3.70%

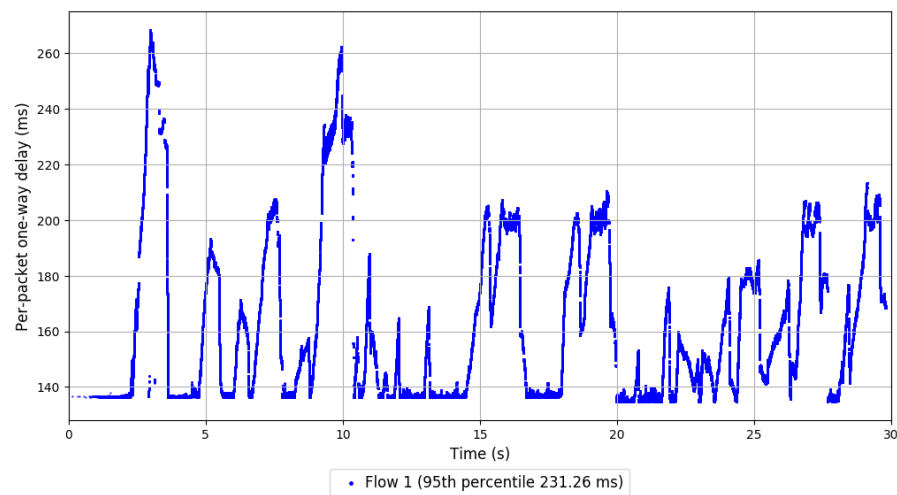
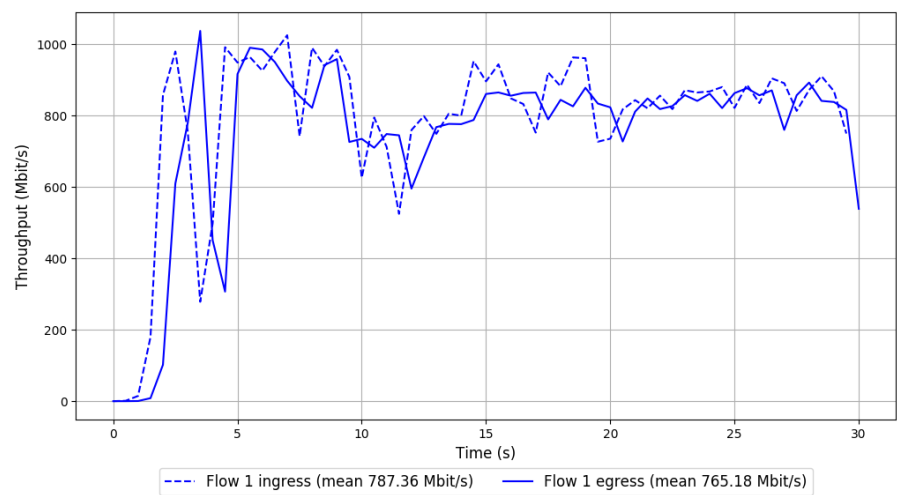
-- Flow 1:

Average throughput: 765.18 Mbit/s

95th percentile per-packet one-way delay: 231.258 ms

Loss rate: 3.70%

Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-06-19 19:35:54

End at: 2018-06-19 19:36:24

Local clock offset: 0.205 ms

Remote clock offset: 0.106 ms

Below is generated by plot.py at 2018-06-19 21:11:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 848.47 Mbit/s

95th percentile per-packet one-way delay: 260.511 ms

Loss rate: 2.74%

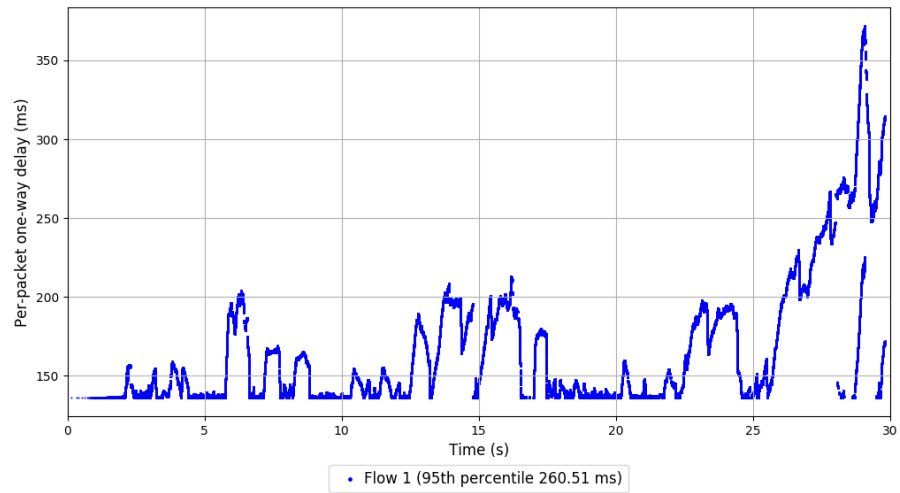
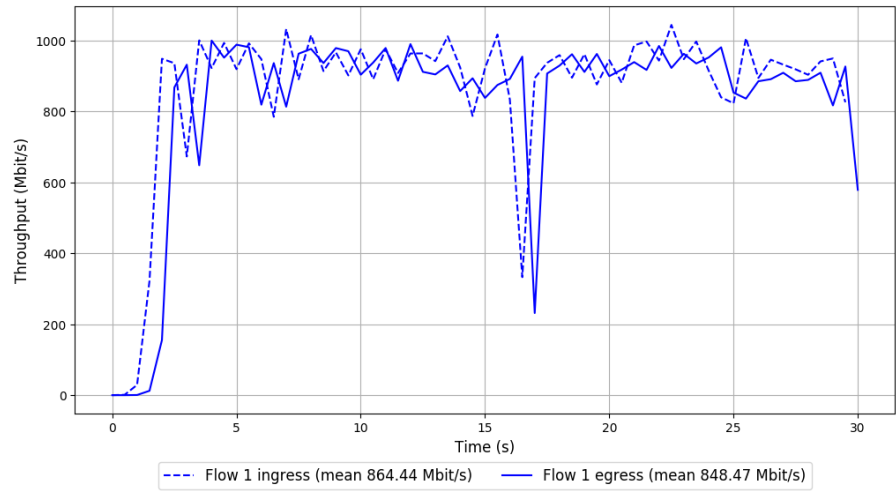
-- Flow 1:

Average throughput: 848.47 Mbit/s

95th percentile per-packet one-way delay: 260.511 ms

Loss rate: 2.74%

Run 8: Report of FillP — Data Link

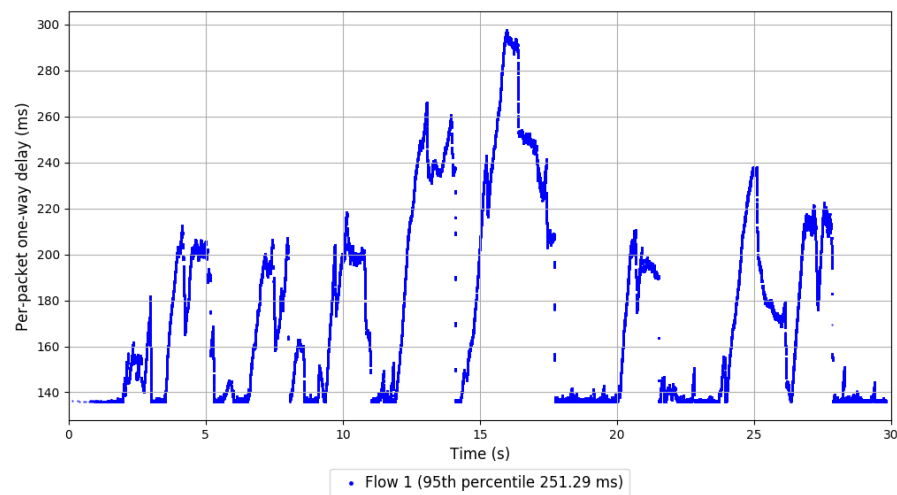
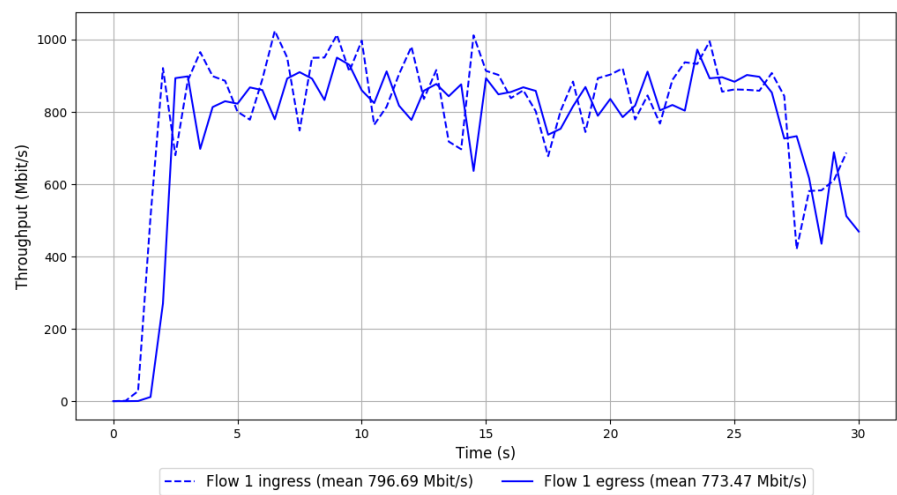


Run 9: Statistics of FillP

Start at: 2018-06-19 19:57:25
End at: 2018-06-19 19:57:55
Local clock offset: 0.073 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-06-19 21:22:07
Datalink statistics
-- Total of 1 flow:
Average throughput: 773.47 Mbit/s
95th percentile per-packet one-way delay: 251.295 ms
Loss rate: 3.80%
-- Flow 1:
Average throughput: 773.47 Mbit/s
95th percentile per-packet one-way delay: 251.295 ms
Loss rate: 3.80%

Run 9: Report of FillP — Data Link

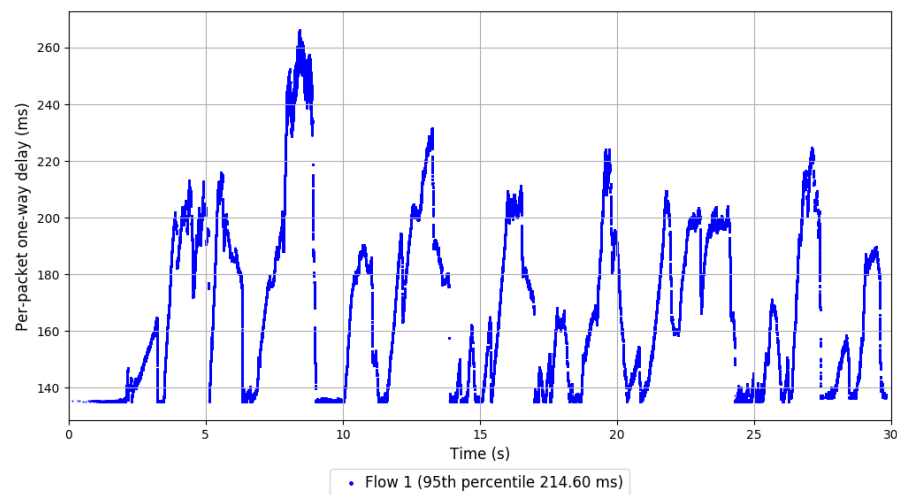
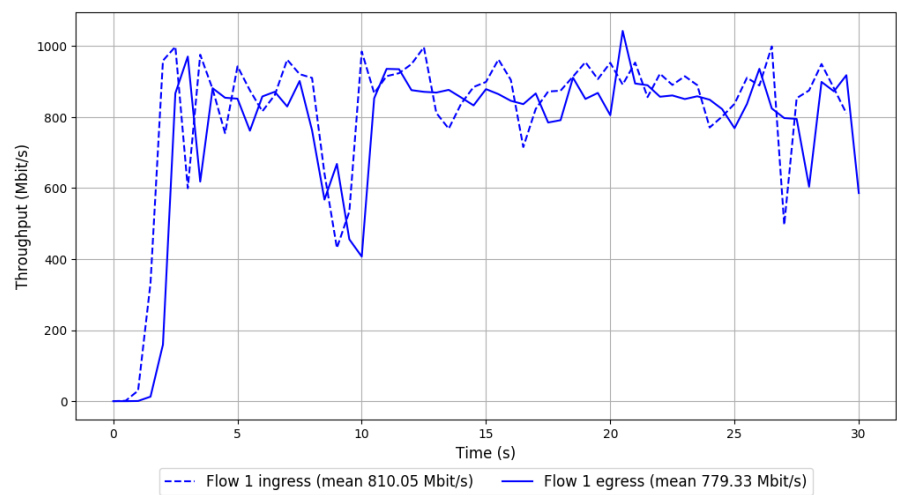


Run 10: Statistics of FillP

Start at: 2018-06-19 20:18:28
End at: 2018-06-19 20:18:58
Local clock offset: 0.079 ms
Remote clock offset: -0.402 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 779.33 Mbit/s
95th percentile per-packet one-way delay: 214.600 ms
Loss rate: 4.67%
-- Flow 1:
Average throughput: 779.33 Mbit/s
95th percentile per-packet one-way delay: 214.600 ms
Loss rate: 4.67%

Run 10: Report of FillP — Data Link

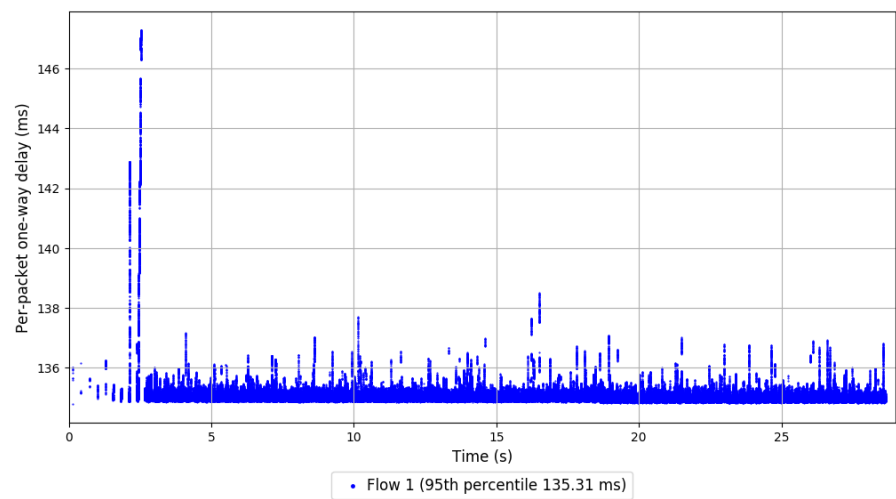
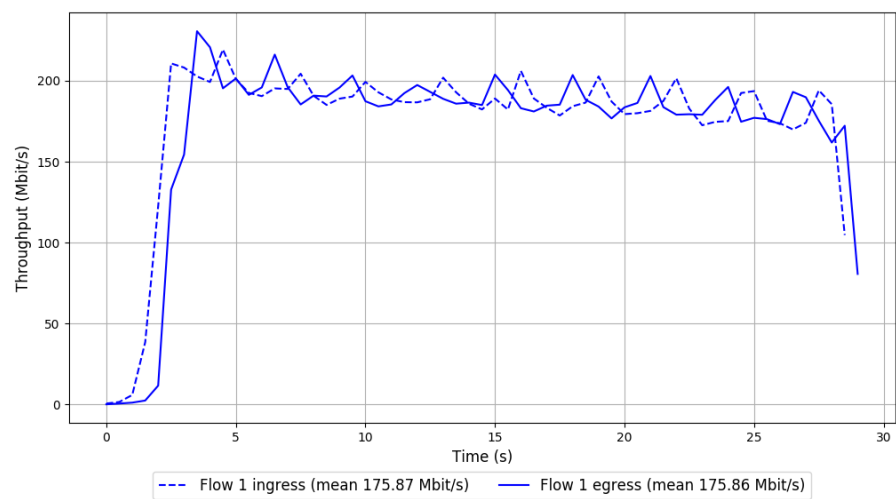


Run 1: Statistics of Indigo

Start at: 2018-06-19 17:15:54
End at: 2018-06-19 17:16:24
Local clock offset: -0.025 ms
Remote clock offset: -0.037 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 135.311 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 135.311 ms
Loss rate: 0.95%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-19 17:36:58

End at: 2018-06-19 17:37:28

Local clock offset: 0.115 ms

Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 134.64 Mbit/s

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

Loss rate: 0.97%

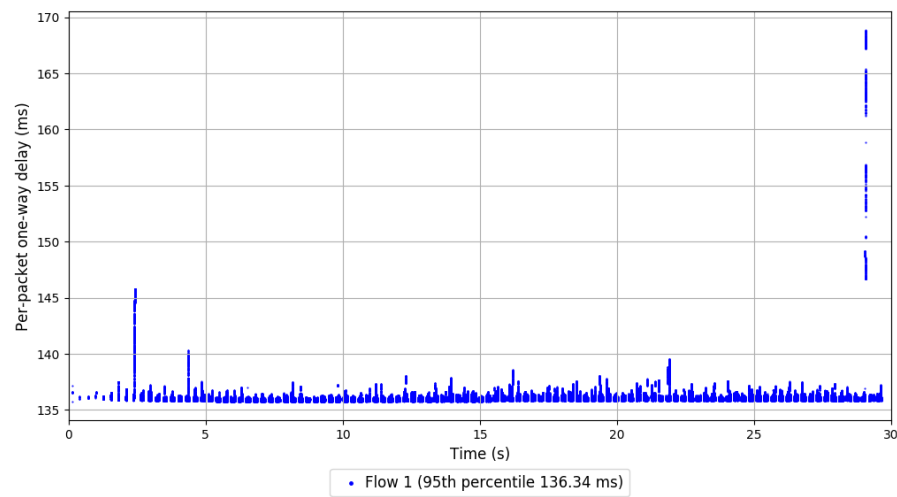
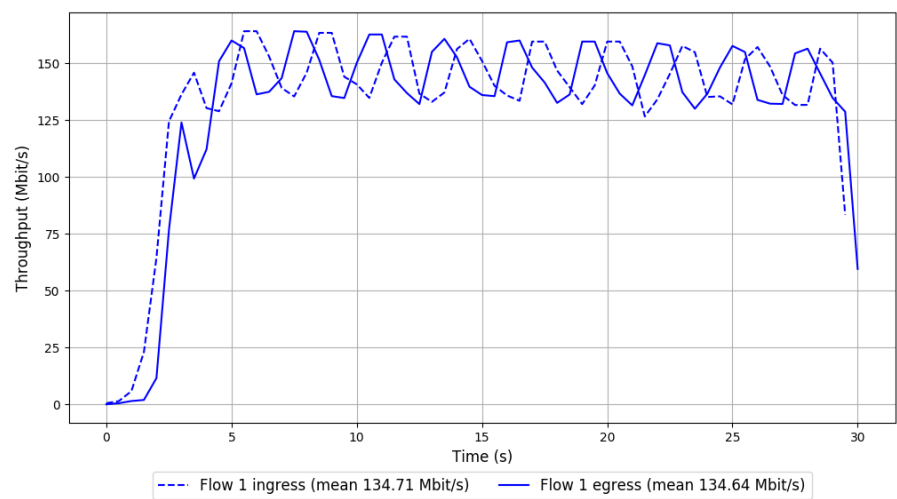
-- Flow 1:

Average throughput: 134.64 Mbit/s

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

Loss rate: 0.97%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-19 17:58:07

End at: 2018-06-19 17:58:37

Local clock offset: 0.022 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.39 Mbit/s

95th percentile per-packet one-way delay: 136.092 ms

Loss rate: 0.90%

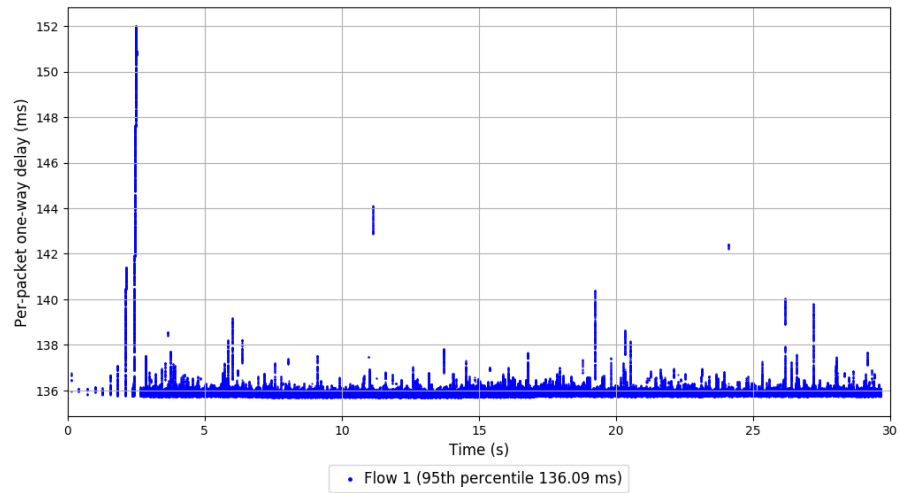
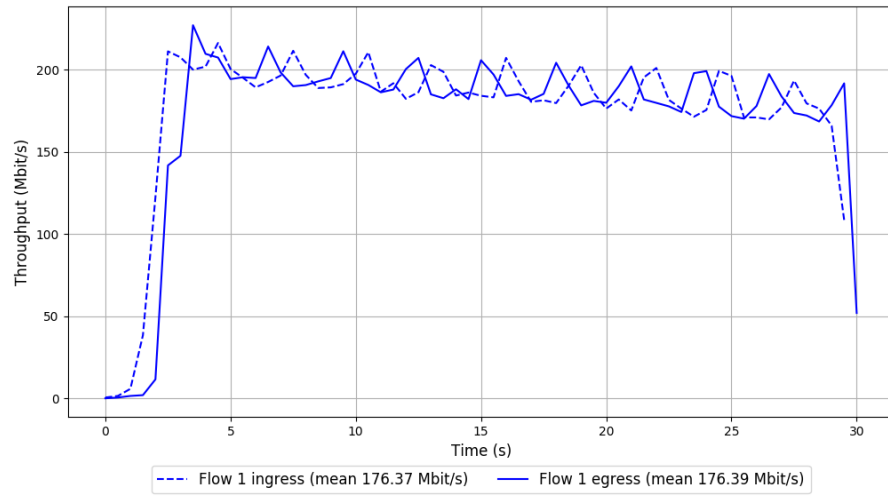
-- Flow 1:

Average throughput: 176.39 Mbit/s

95th percentile per-packet one-way delay: 136.092 ms

Loss rate: 0.90%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-19 18:18:51

End at: 2018-06-19 18:19:21

Local clock offset: 0.042 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 129.72 Mbit/s

95th percentile per-packet one-way delay: 163.529 ms

Loss rate: 0.96%

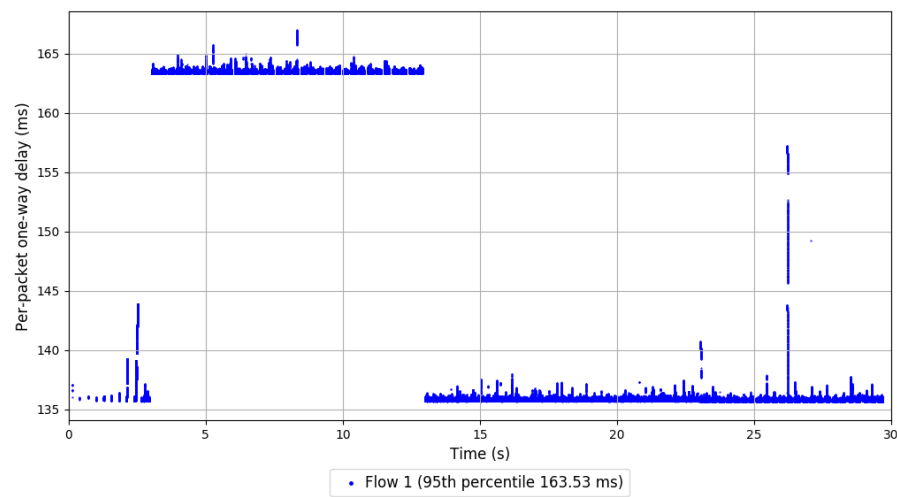
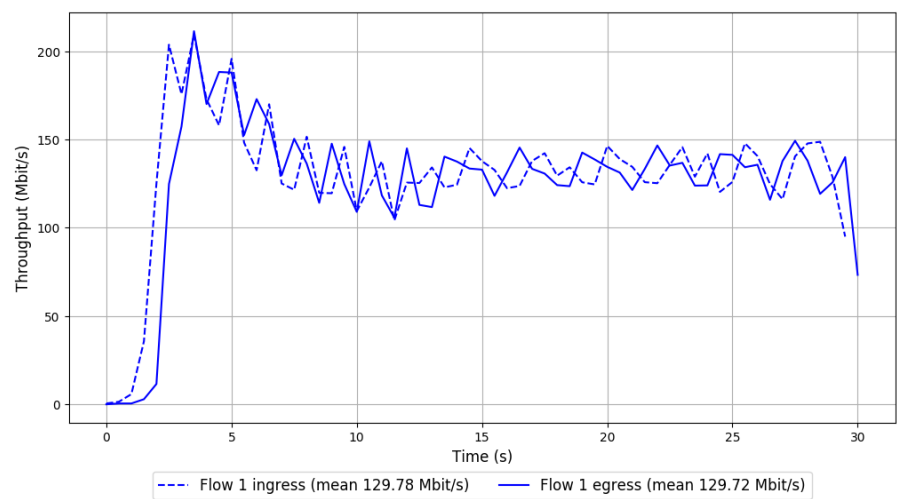
-- Flow 1:

Average throughput: 129.72 Mbit/s

95th percentile per-packet one-way delay: 163.529 ms

Loss rate: 0.96%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 18:39:51

End at: 2018-06-19 18:40:21

Local clock offset: 0.047 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 154.06 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.87%

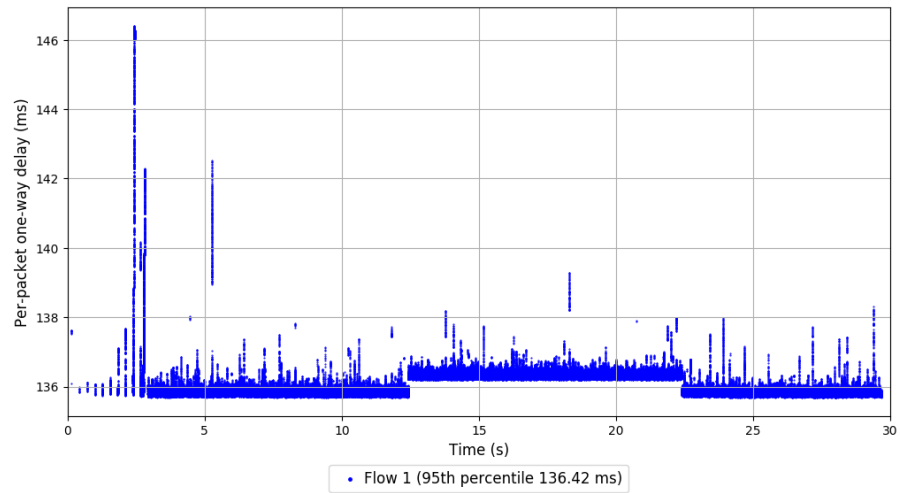
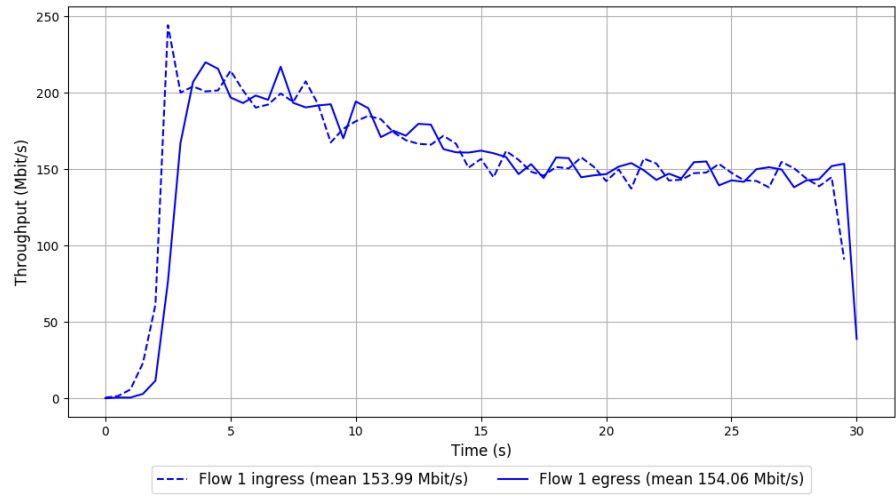
-- Flow 1:

Average throughput: 154.06 Mbit/s

95th percentile per-packet one-way delay: 136.419 ms

Loss rate: 0.87%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 19:00:48

End at: 2018-06-19 19:01:18

Local clock offset: 0.109 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.22 Mbit/s

95th percentile per-packet one-way delay: 136.153 ms

Loss rate: 0.90%

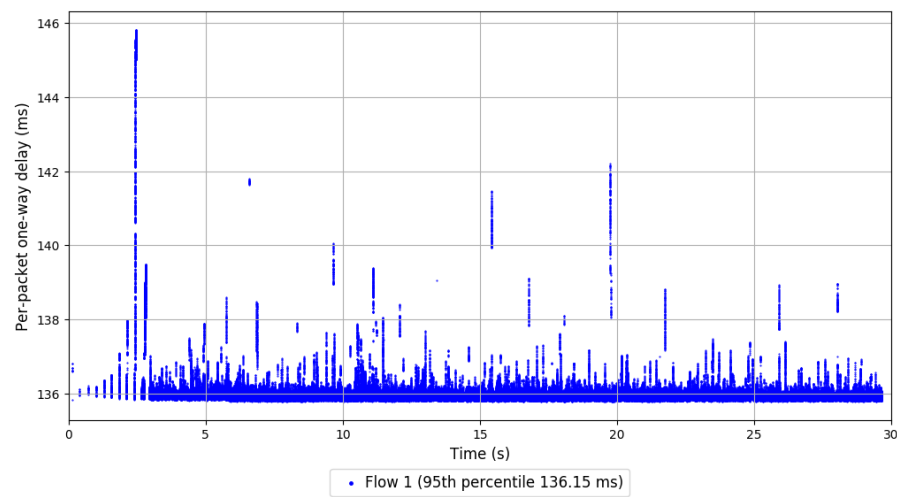
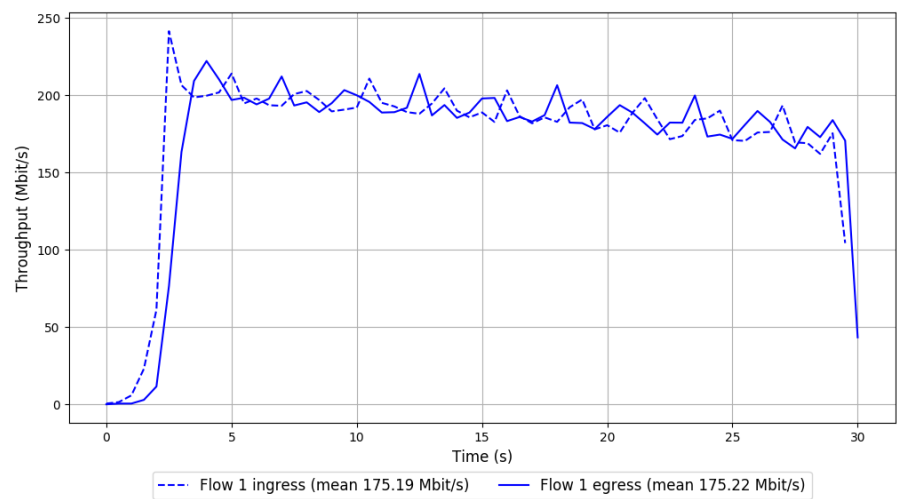
-- Flow 1:

Average throughput: 175.22 Mbit/s

95th percentile per-packet one-way delay: 136.153 ms

Loss rate: 0.90%

Run 6: Report of Indigo — Data Link

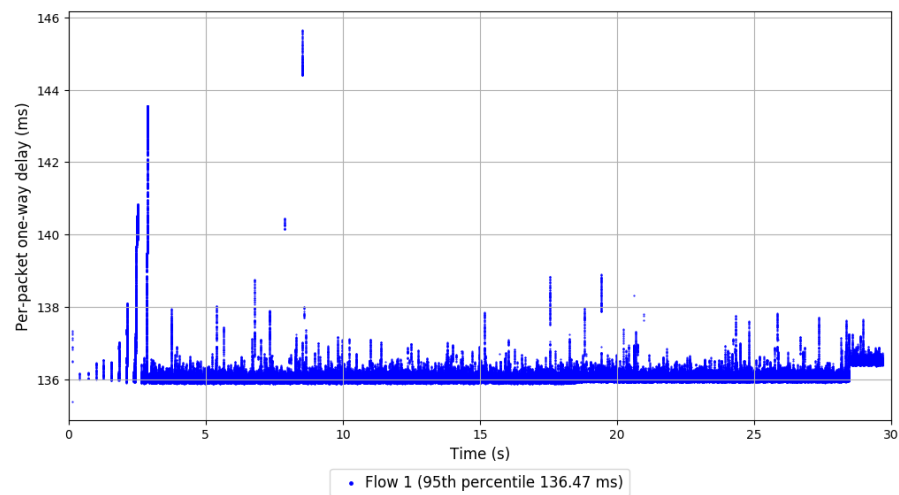
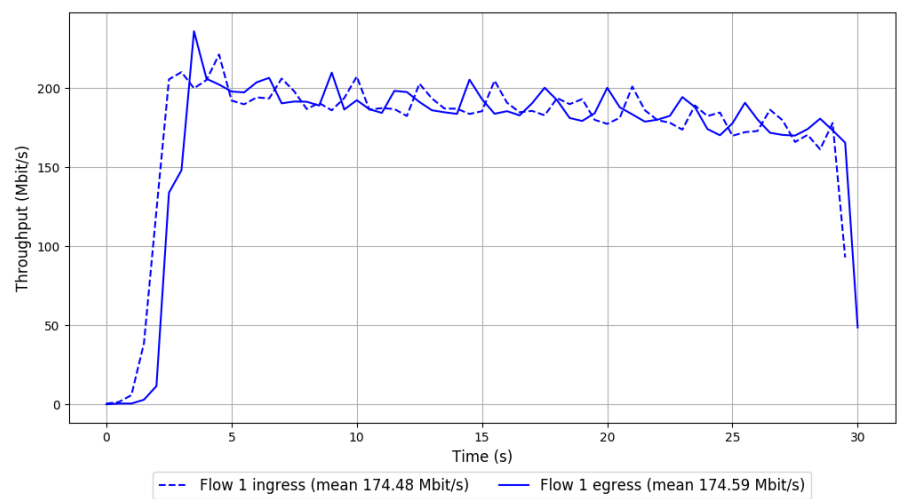


Run 7: Statistics of Indigo

Start at: 2018-06-19 19:21:55
End at: 2018-06-19 19:22:25
Local clock offset: -0.068 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.59 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 174.59 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 0.85%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-19 19:43:40

End at: 2018-06-19 19:44:10

Local clock offset: 0.1 ms

Remote clock offset: -0.377 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.26 Mbit/s

95th percentile per-packet one-way delay: 136.516 ms

Loss rate: 0.89%

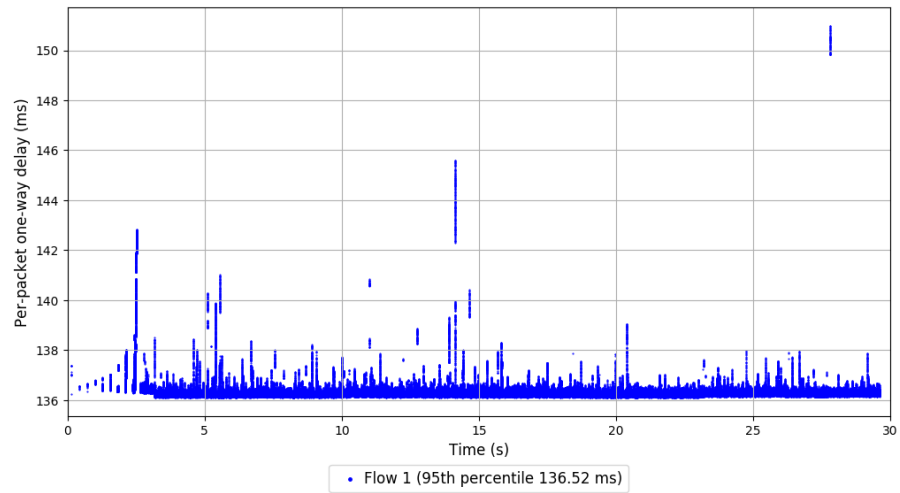
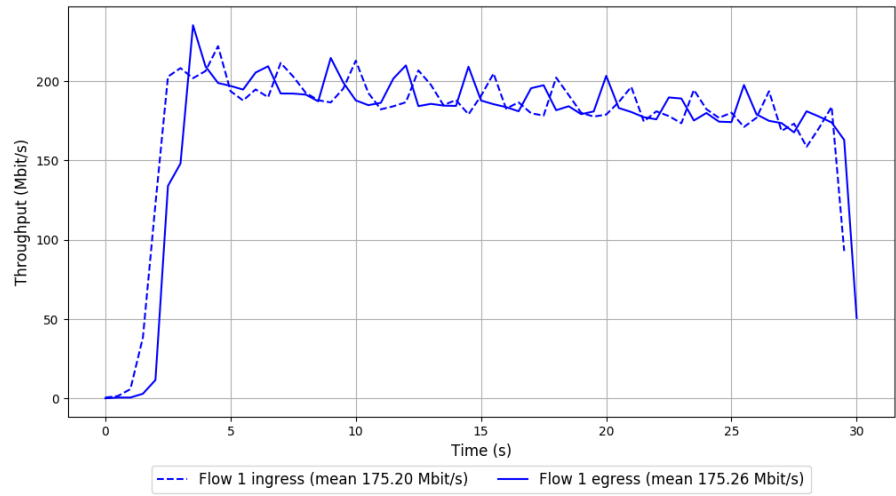
-- Flow 1:

Average throughput: 175.26 Mbit/s

95th percentile per-packet one-way delay: 136.516 ms

Loss rate: 0.89%

Run 8: Report of Indigo — Data Link

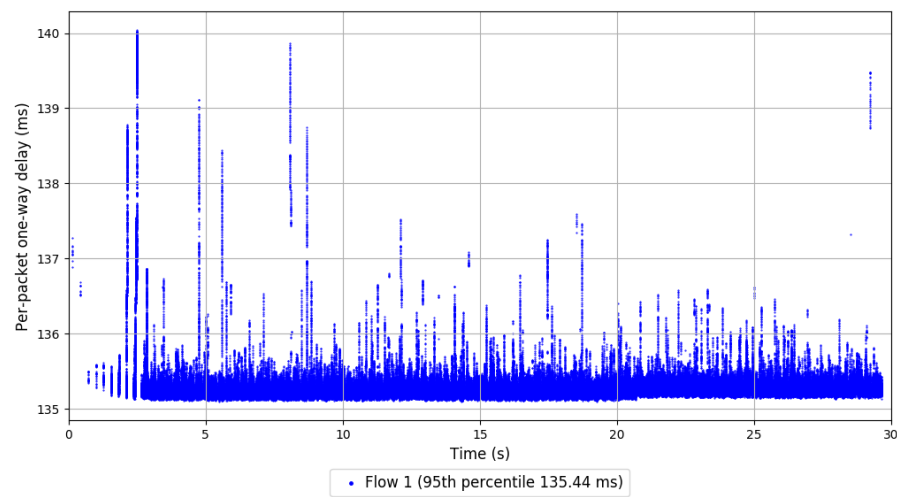
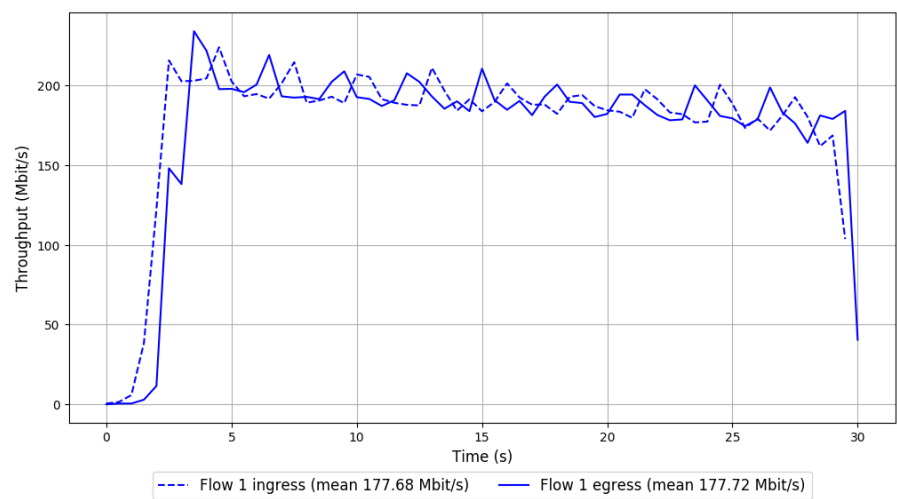


Run 9: Statistics of Indigo

Start at: 2018-06-19 20:05:03
End at: 2018-06-19 20:05:33
Local clock offset: -0.096 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 177.72 Mbit/s
95th percentile per-packet one-way delay: 135.442 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 177.72 Mbit/s
95th percentile per-packet one-way delay: 135.442 ms
Loss rate: 0.90%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 20:26:06

End at: 2018-06-19 20:26:36

Local clock offset: -0.144 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.63 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.91%

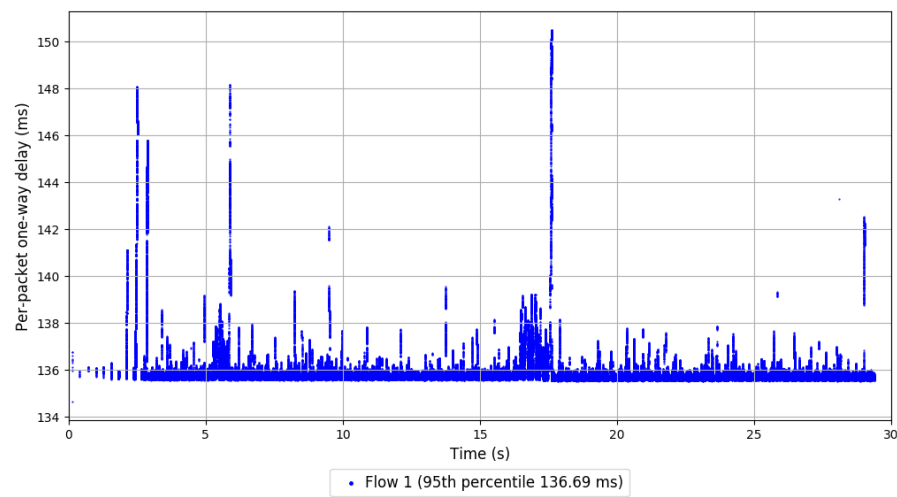
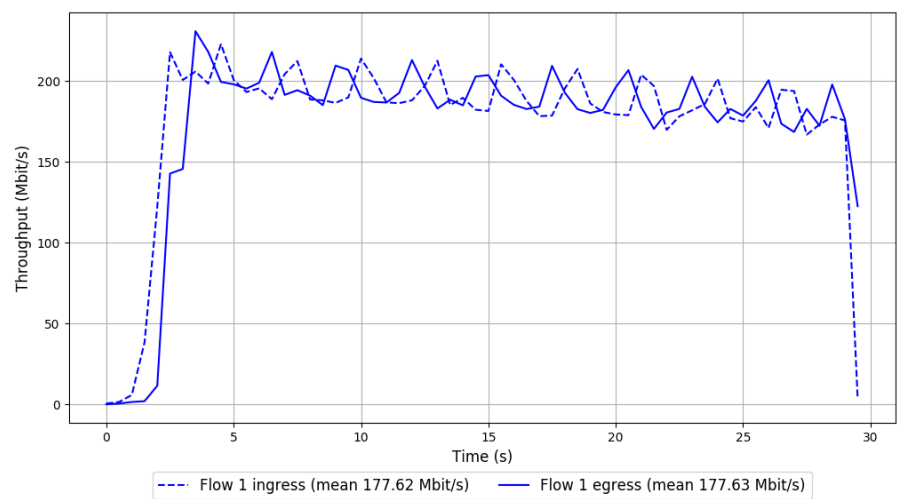
-- Flow 1:

Average throughput: 177.63 Mbit/s

95th percentile per-packet one-way delay: 136.690 ms

Loss rate: 0.91%

Run 10: Report of Indigo — Data Link

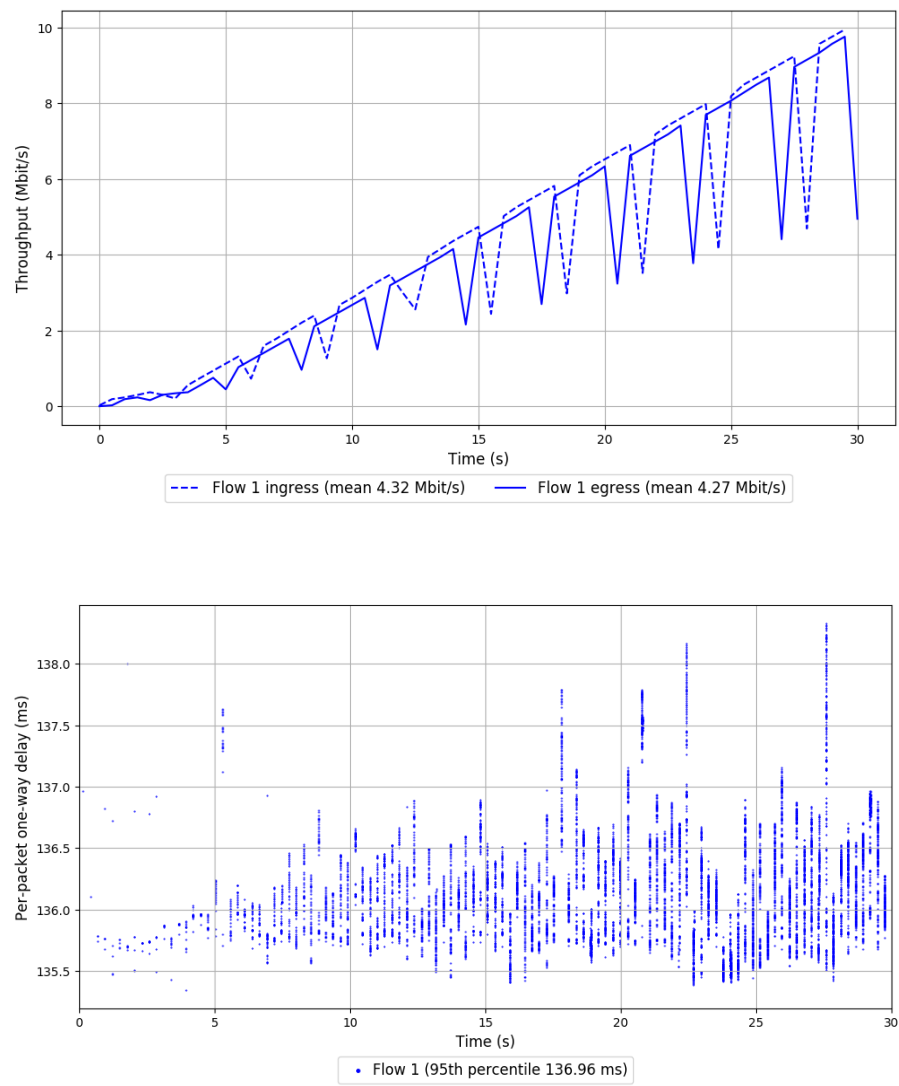


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 17:04:41
End at: 2018-06-19 17:05:11
Local clock offset: 0.117 ms
Remote clock offset: -0.421 ms

# Below is generated by plot.py at 2018-06-19 21:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 4.27 Mbit/s
95th percentile per-packet one-way delay: 136.959 ms
Loss rate: 1.94%
```

Run 1: Report of LEDBAT — Data Link

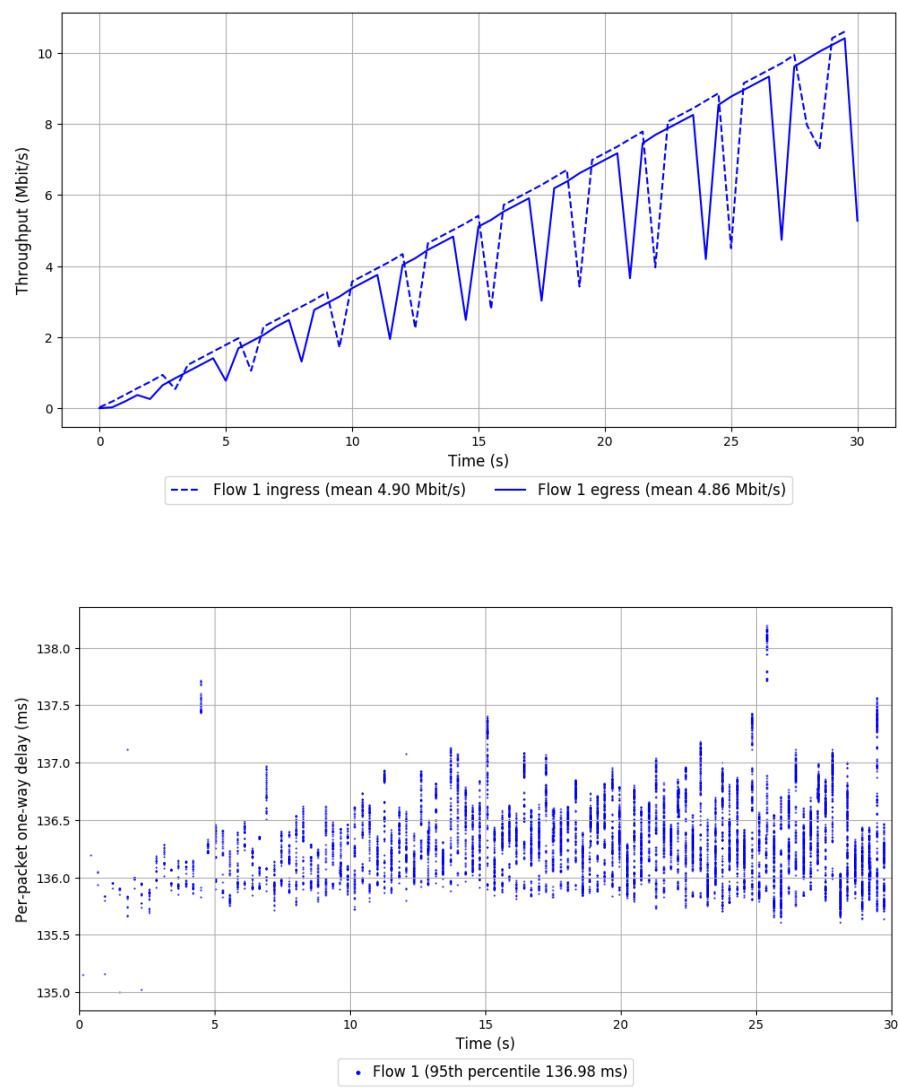


Run 2: Statistics of LEDBAT

Start at: 2018-06-19 17:25:57
End at: 2018-06-19 17:26:27
Local clock offset: -0.065 ms
Remote clock offset: -0.015 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 136.976 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 136.976 ms
Loss rate: 1.82%

Run 2: Report of LEDBAT — Data Link

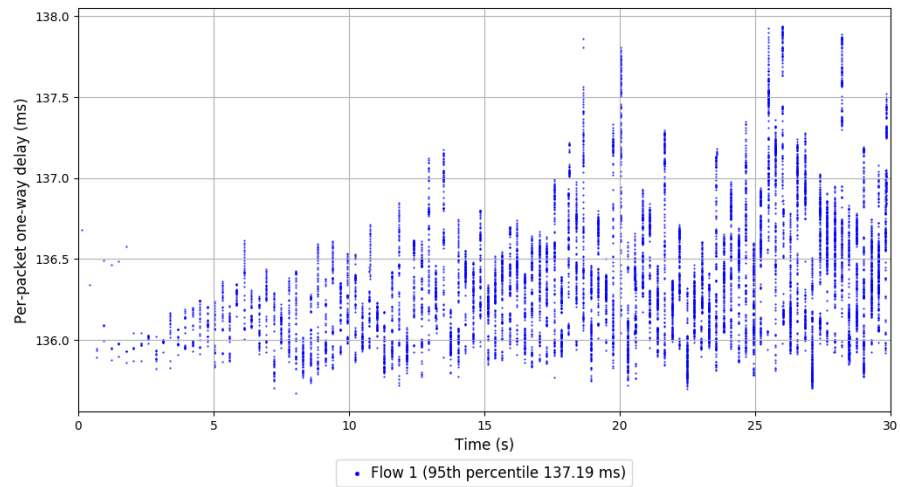
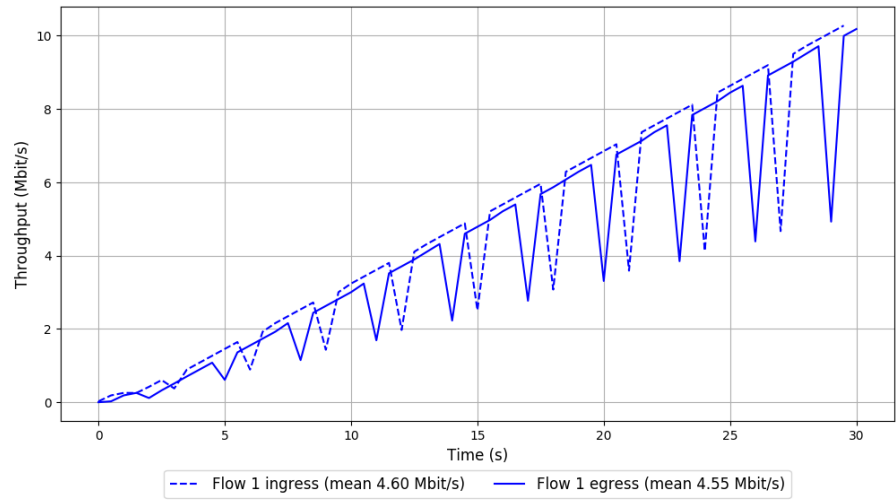


Run 3: Statistics of LEDBAT

Start at: 2018-06-19 17:46:52
End at: 2018-06-19 17:47:22
Local clock offset: -0.051 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 137.188 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 4.55 Mbit/s
95th percentile per-packet one-way delay: 137.188 ms
Loss rate: 1.87%

Run 3: Report of LEDBAT — Data Link

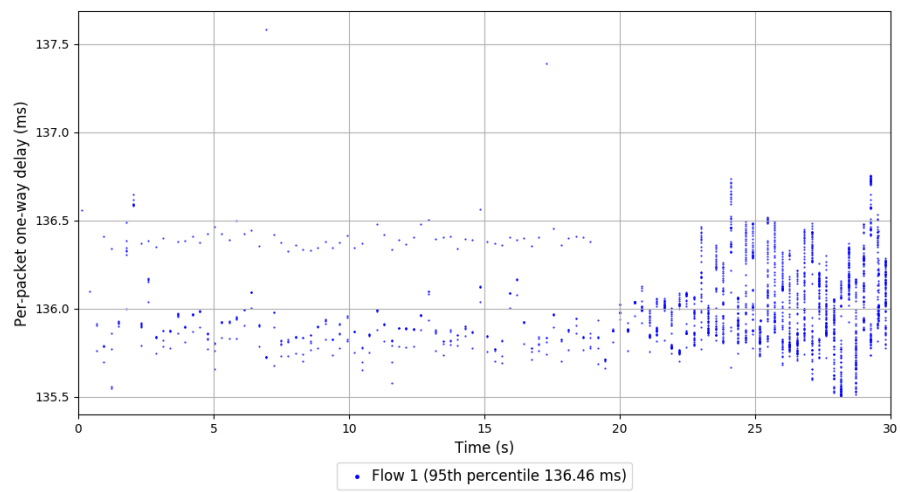
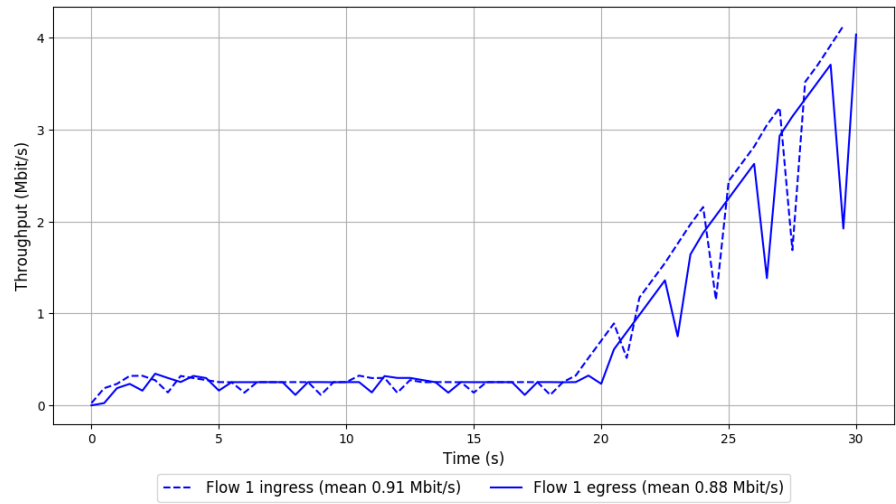


```
Run 4: Statistics of LEDBAT

Start at: 2018-06-19 18:08:05
End at: 2018-06-19 18:08:35
Local clock offset: -0.143 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-06-19 21:22:53
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 136.459 ms
Loss rate: 3.85%
-- Flow 1:
Average throughput: 0.88 Mbit/s
95th percentile per-packet one-way delay: 136.459 ms
Loss rate: 3.85%
```

Run 4: Report of LEDBAT — Data Link

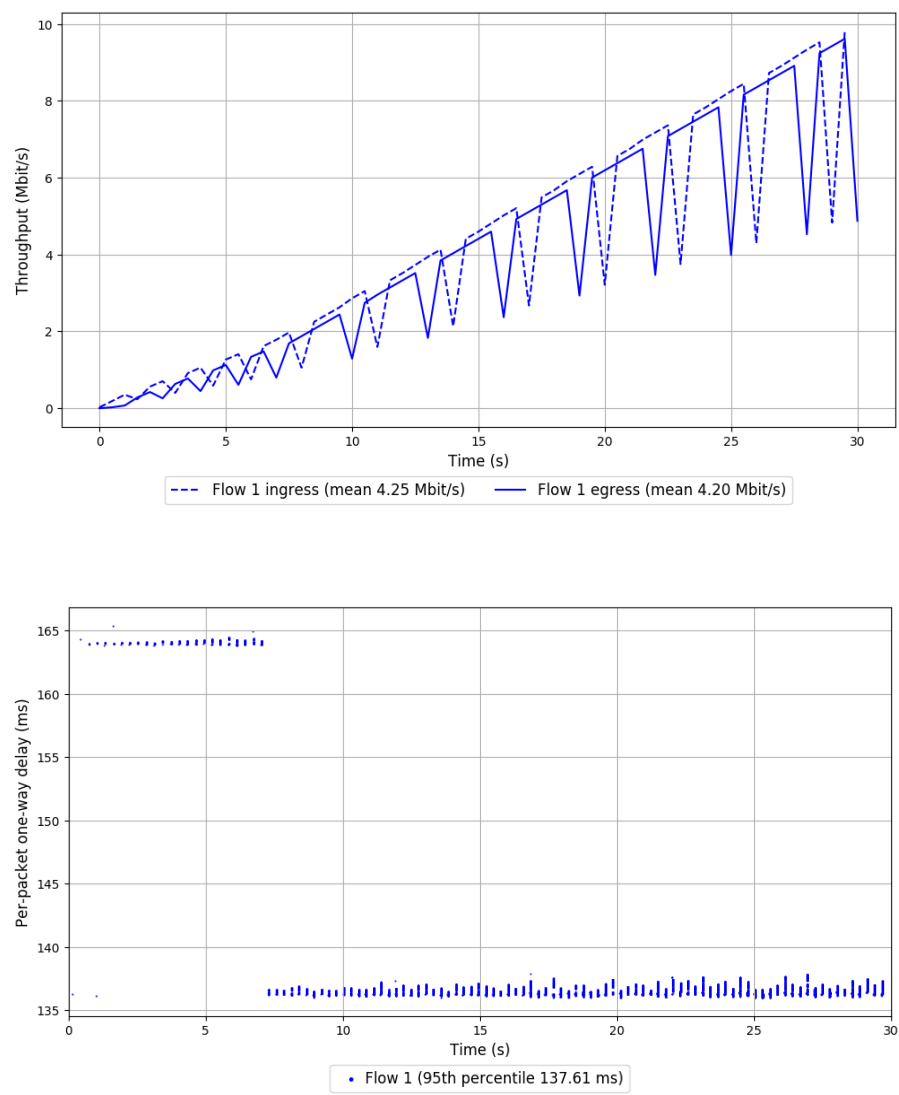


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 18:28:37
End at: 2018-06-19 18:29:07
Local clock offset: 0.035 ms
Remote clock offset: -0.335 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 137.607 ms
Loss rate: 1.94%
-- Flow 1:
Average throughput: 4.20 Mbit/s
95th percentile per-packet one-way delay: 137.607 ms
Loss rate: 1.94%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 18:49:47

End at: 2018-06-19 18:50:17

Local clock offset: -0.041 ms

Remote clock offset: 0.062 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.79 Mbit/s

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

Loss rate: 1.84%

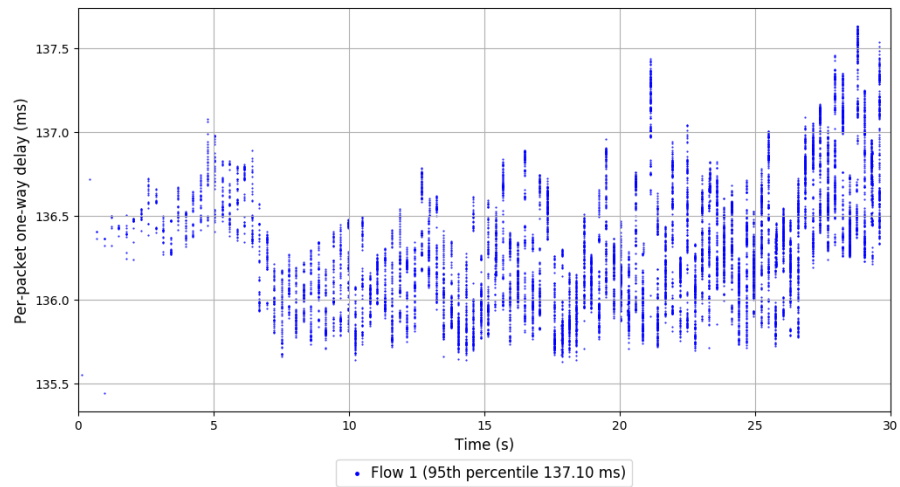
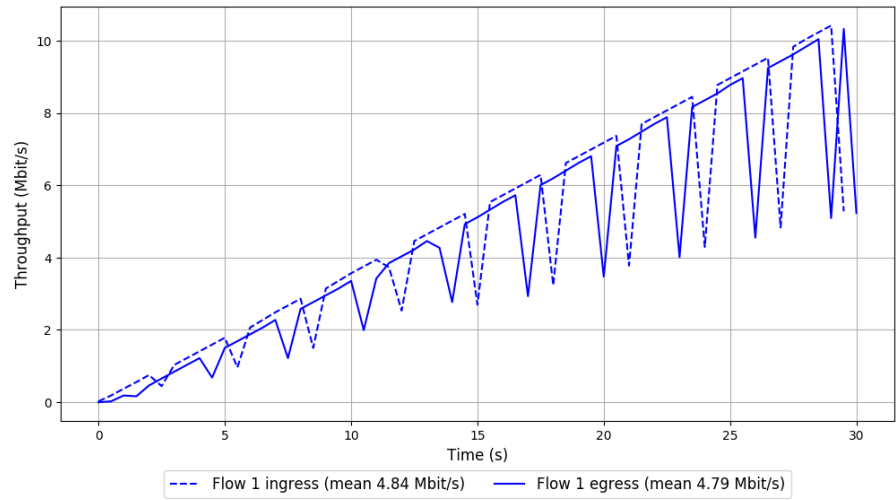
-- Flow 1:

Average throughput: 4.79 Mbit/s

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

Loss rate: 1.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-19 19:10:51

End at: 2018-06-19 19:11:21

Local clock offset: -0.211 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 1.83%

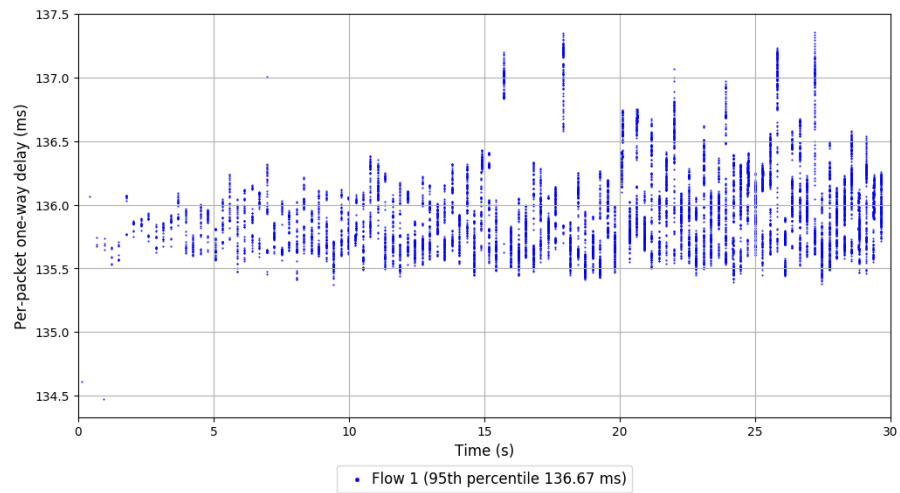
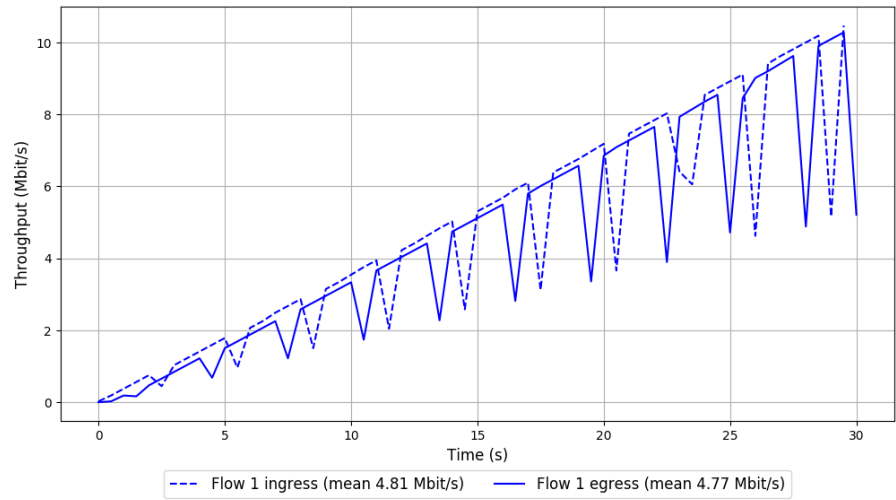
-- Flow 1:

Average throughput: 4.77 Mbit/s

95th percentile per-packet one-way delay: 136.668 ms

Loss rate: 1.83%

Run 7: Report of LEDBAT — Data Link

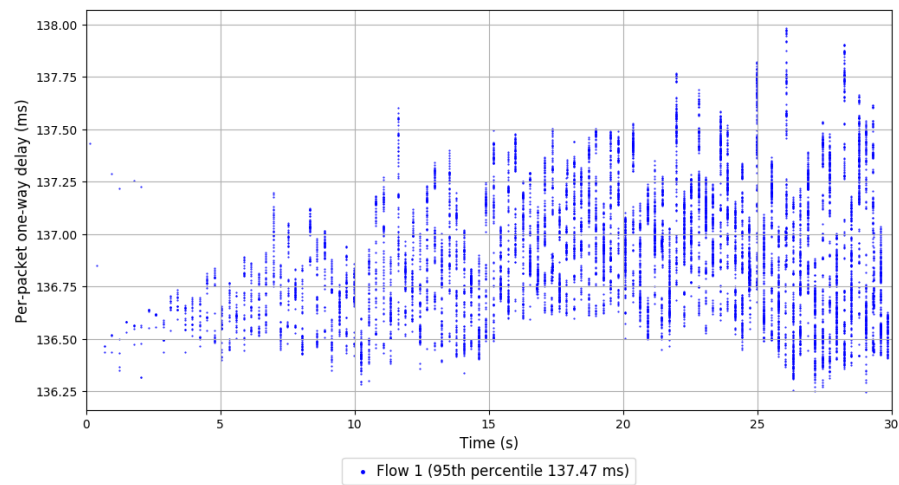
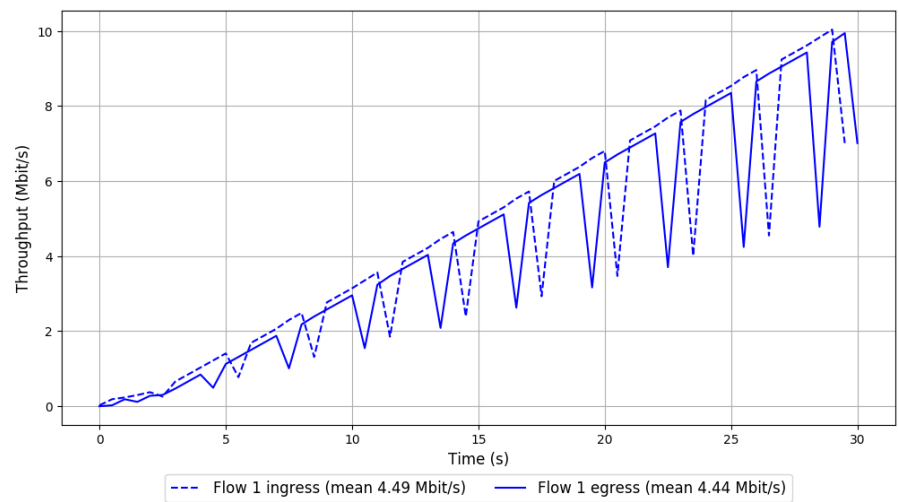


Run 8: Statistics of LEDBAT

Start at: 2018-06-19 19:32:09
End at: 2018-06-19 19:32:39
Local clock offset: 0.248 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 137.466 ms
Loss rate: 1.87%
-- Flow 1:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 137.466 ms
Loss rate: 1.87%

Run 8: Report of LEDBAT — Data Link

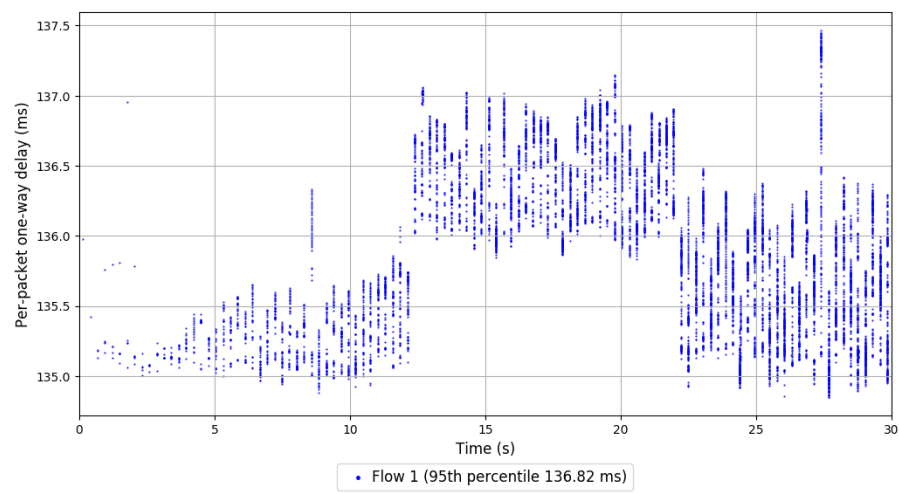
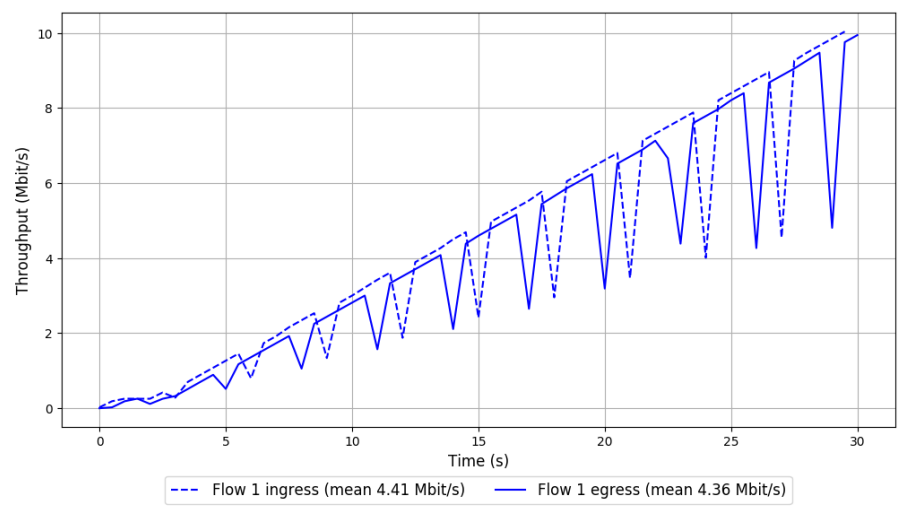


Run 9: Statistics of LEDBAT

Start at: 2018-06-19 19:53:52
End at: 2018-06-19 19:54:22
Local clock offset: -0.042 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 136.818 ms
Loss rate: 1.91%
-- Flow 1:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 136.818 ms
Loss rate: 1.91%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-06-19 20:14:55

End at: 2018-06-19 20:15:25

Local clock offset: 0.0 ms

Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 1.94%

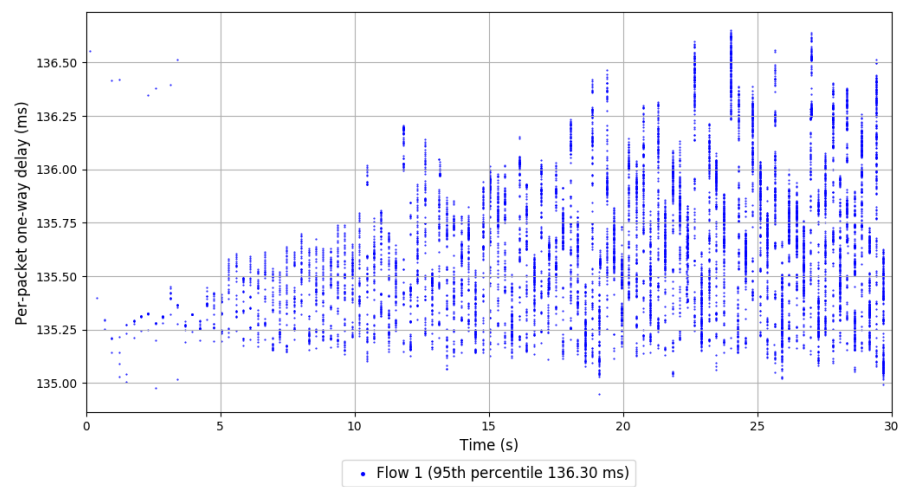
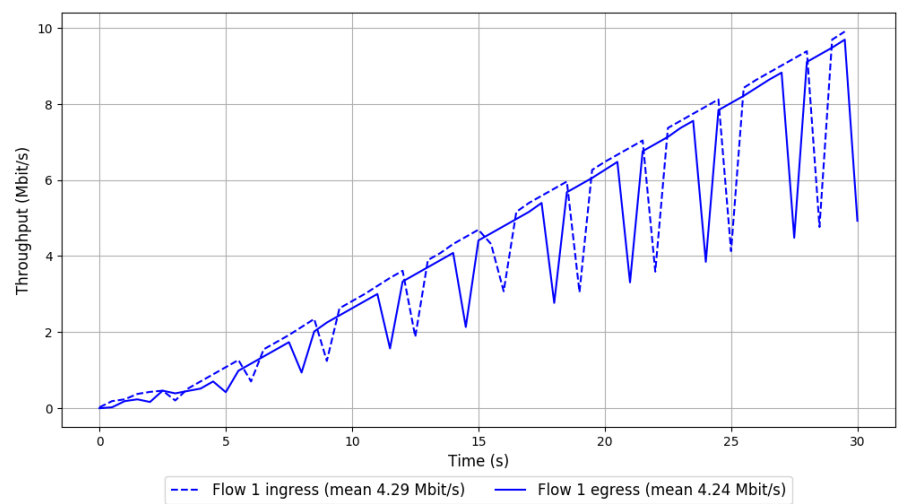
-- Flow 1:

Average throughput: 4.24 Mbit/s

95th percentile per-packet one-way delay: 136.296 ms

Loss rate: 1.94%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 17:14:23

End at: 2018-06-19 17:14:53

Local clock offset: 0.14 ms

Remote clock offset: -0.397 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.98 Mbit/s

95th percentile per-packet one-way delay: 269.035 ms

Loss rate: 3.25%

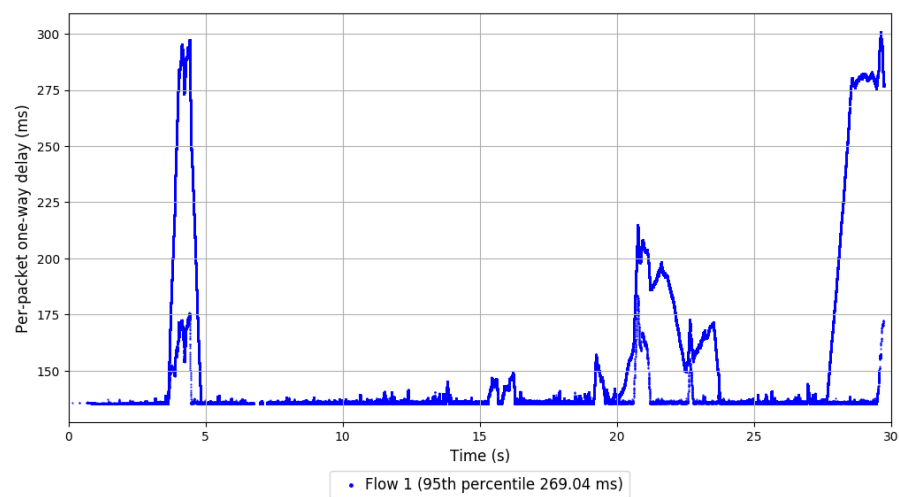
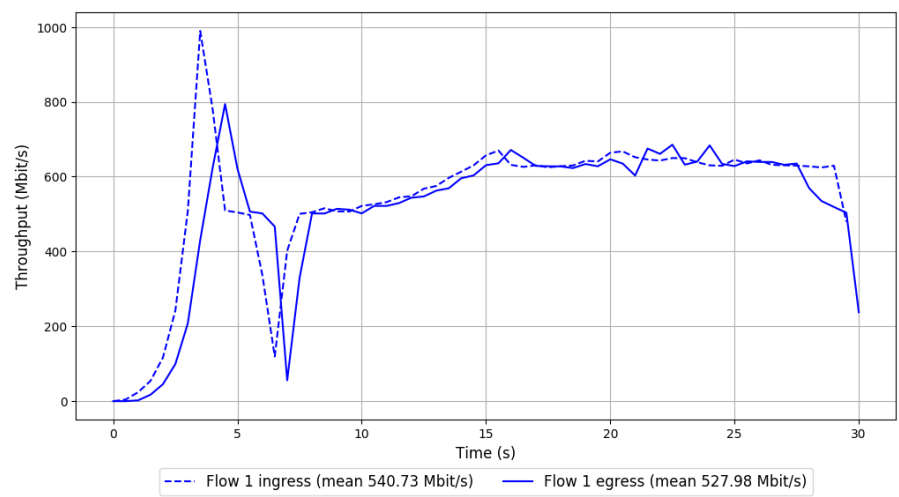
-- Flow 1:

Average throughput: 527.98 Mbit/s

95th percentile per-packet one-way delay: 269.035 ms

Loss rate: 3.25%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 17:35:27

End at: 2018-06-19 17:35:57

Local clock offset: -0.15 ms

Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 548.76 Mbit/s

95th percentile per-packet one-way delay: 244.863 ms

Loss rate: 2.29%

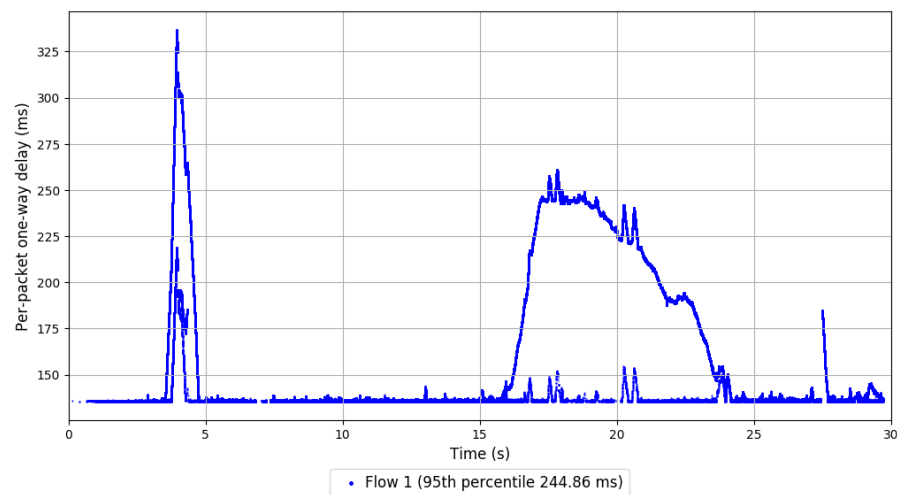
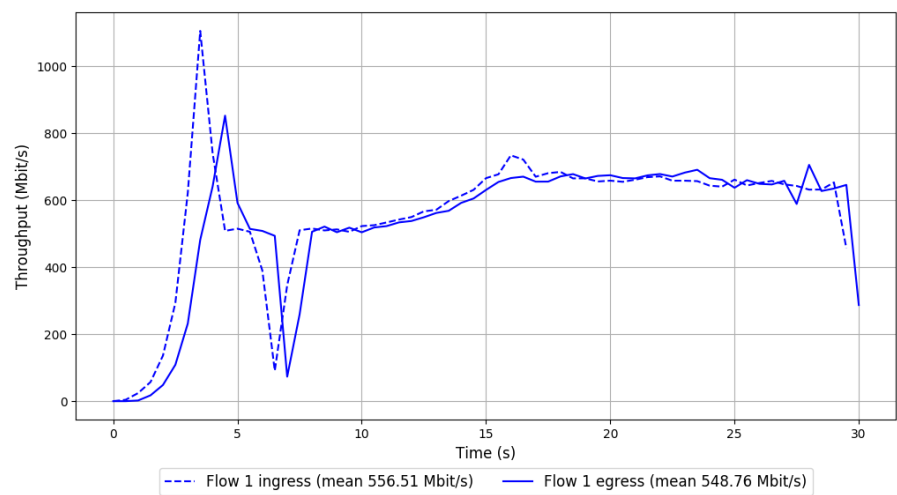
-- Flow 1:

Average throughput: 548.76 Mbit/s

95th percentile per-packet one-way delay: 244.863 ms

Loss rate: 2.29%

Run 2: Report of PCC-Allegro — Data Link

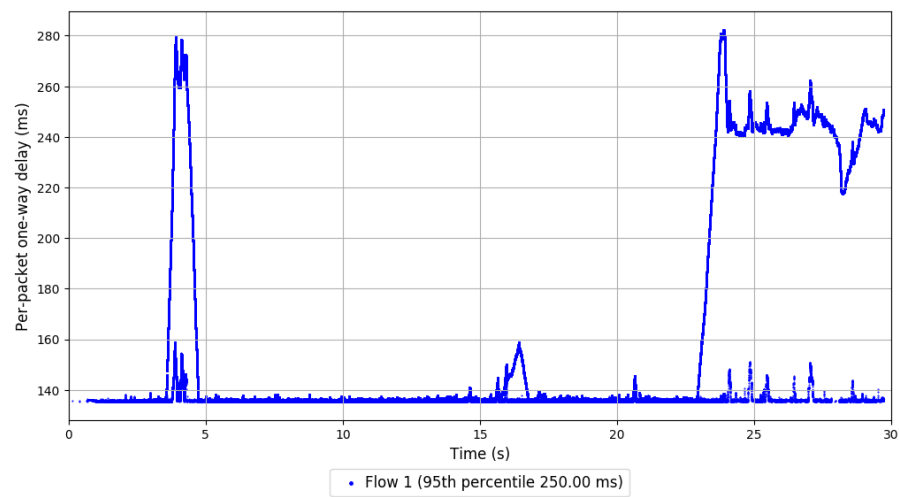
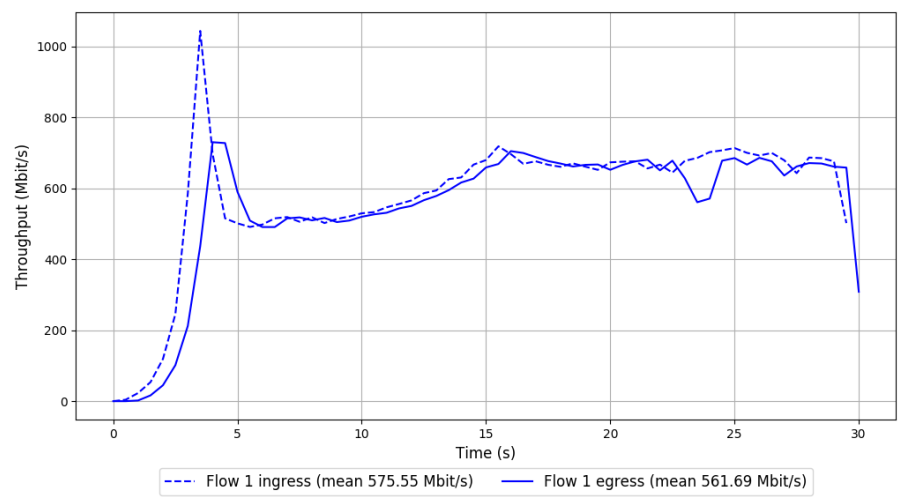


Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 17:56:35
End at: 2018-06-19 17:57:05
Local clock offset: -0.038 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-19 21:22:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 561.69 Mbit/s
95th percentile per-packet one-way delay: 249.998 ms
Loss rate: 3.29%
-- Flow 1:
Average throughput: 561.69 Mbit/s
95th percentile per-packet one-way delay: 249.998 ms
Loss rate: 3.29%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 18:17:22

End at: 2018-06-19 18:17:52

Local clock offset: 0.121 ms

Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-19 21:22:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 481.51 Mbit/s

95th percentile per-packet one-way delay: 166.868 ms

Loss rate: 2.15%

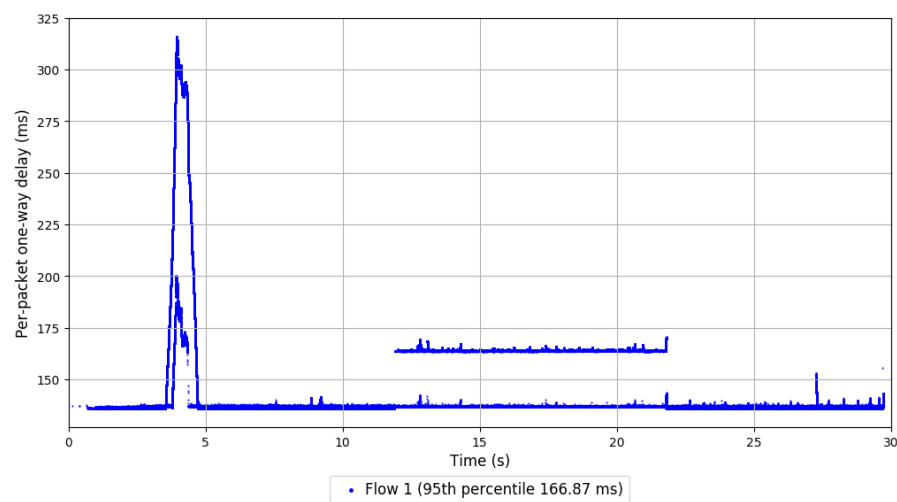
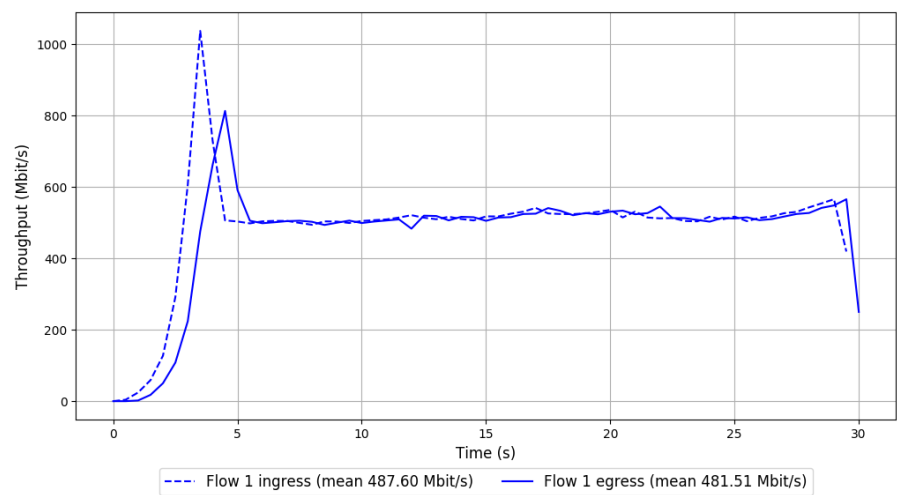
-- Flow 1:

Average throughput: 481.51 Mbit/s

95th percentile per-packet one-way delay: 166.868 ms

Loss rate: 2.15%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 18:38:19

End at: 2018-06-19 18:38:49

Local clock offset: -0.025 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-19 21:23:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 573.86 Mbit/s

95th percentile per-packet one-way delay: 234.224 ms

Loss rate: 2.32%

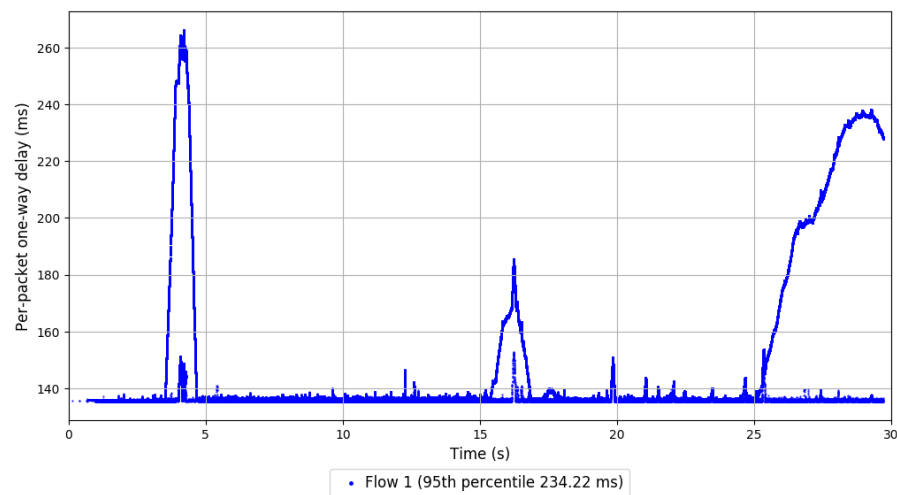
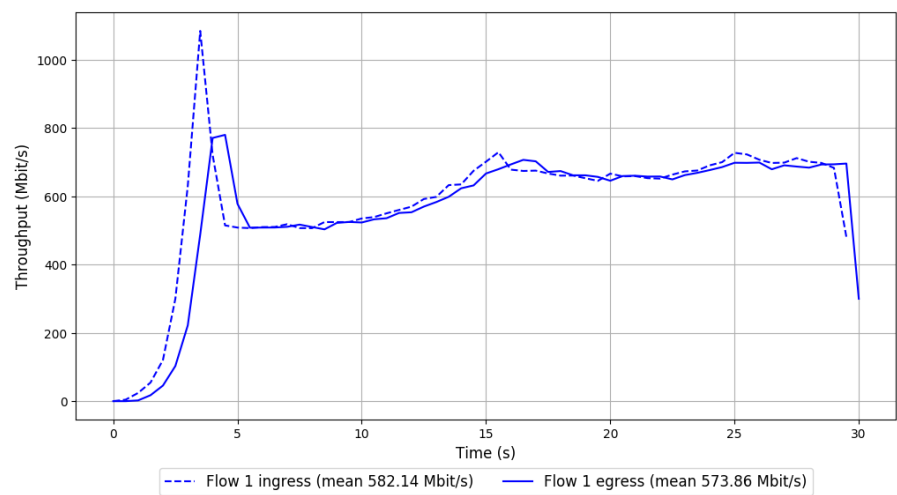
-- Flow 1:

Average throughput: 573.86 Mbit/s

95th percentile per-packet one-way delay: 234.224 ms

Loss rate: 2.32%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 18:59:15

End at: 2018-06-19 18:59:46

Local clock offset: 0.158 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-06-19 21:23:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.92 Mbit/s

95th percentile per-packet one-way delay: 156.745 ms

Loss rate: 2.05%

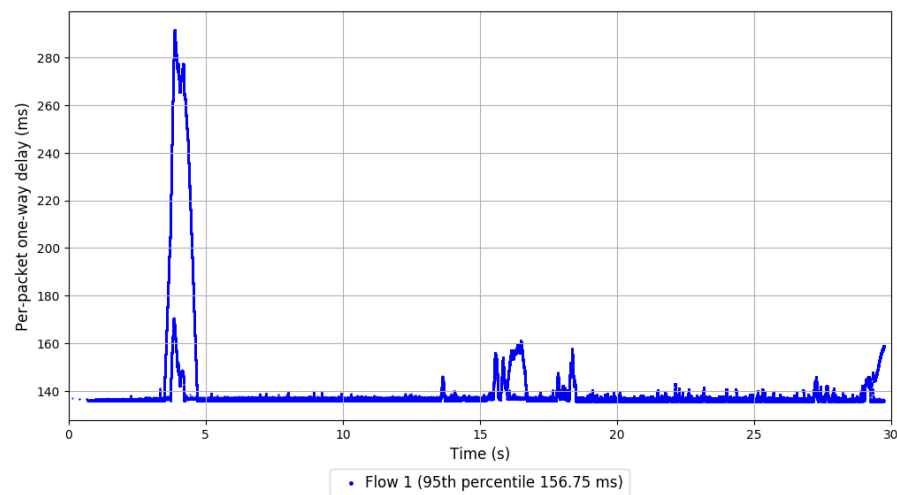
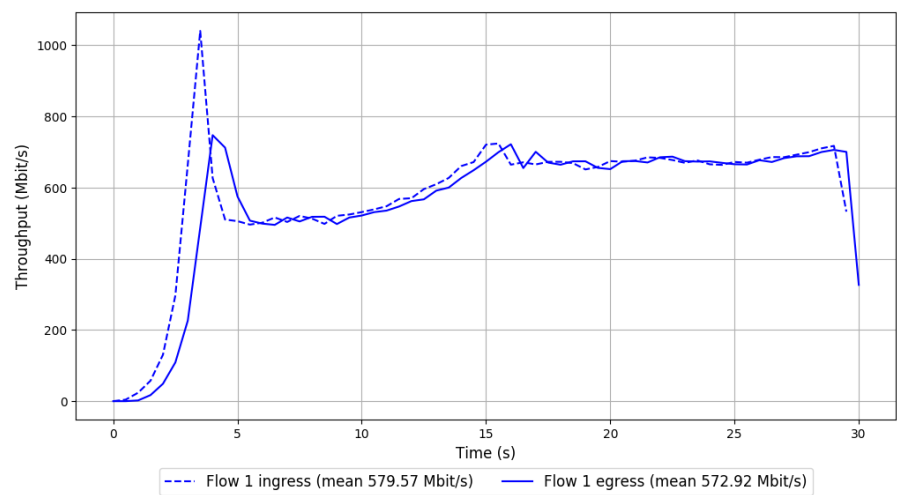
-- Flow 1:

Average throughput: 572.92 Mbit/s

95th percentile per-packet one-way delay: 156.745 ms

Loss rate: 2.05%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 19:20:24

End at: 2018-06-19 19:20:54

Local clock offset: -0.025 ms

Remote clock offset: -0.294 ms

Below is generated by plot.py at 2018-06-19 21:30:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 525.26 Mbit/s

95th percentile per-packet one-way delay: 279.811 ms

Loss rate: 4.10%

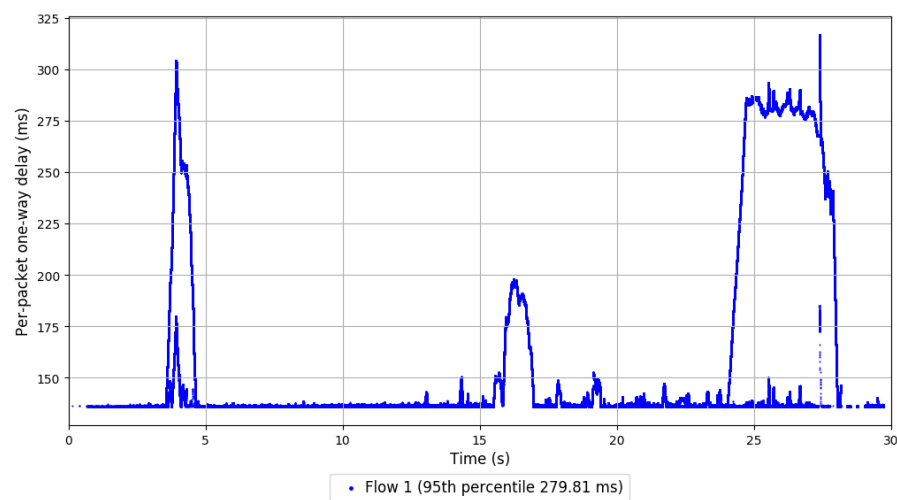
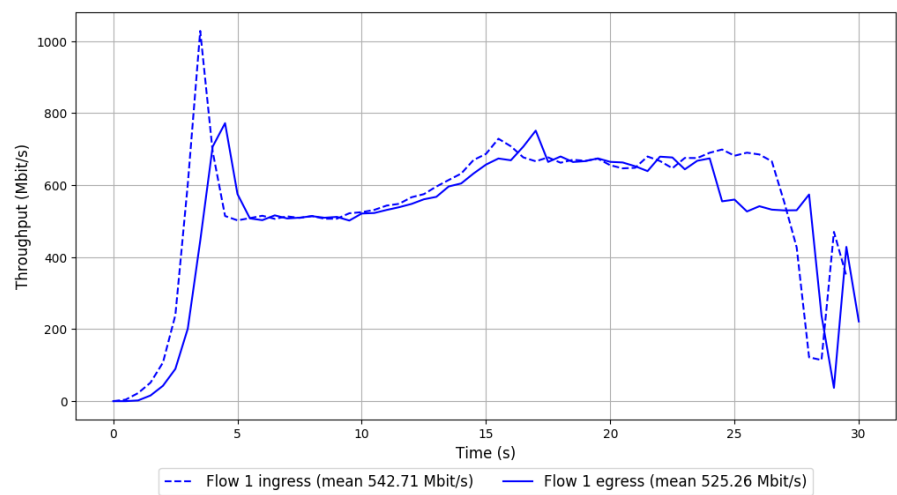
-- Flow 1:

Average throughput: 525.26 Mbit/s

95th percentile per-packet one-way delay: 279.811 ms

Loss rate: 4.10%

Run 7: Report of PCC-Allegro — Data Link

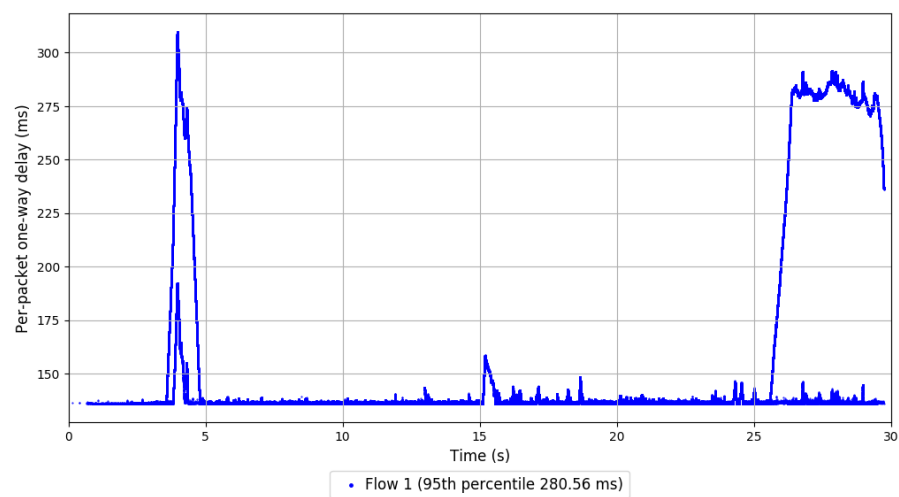
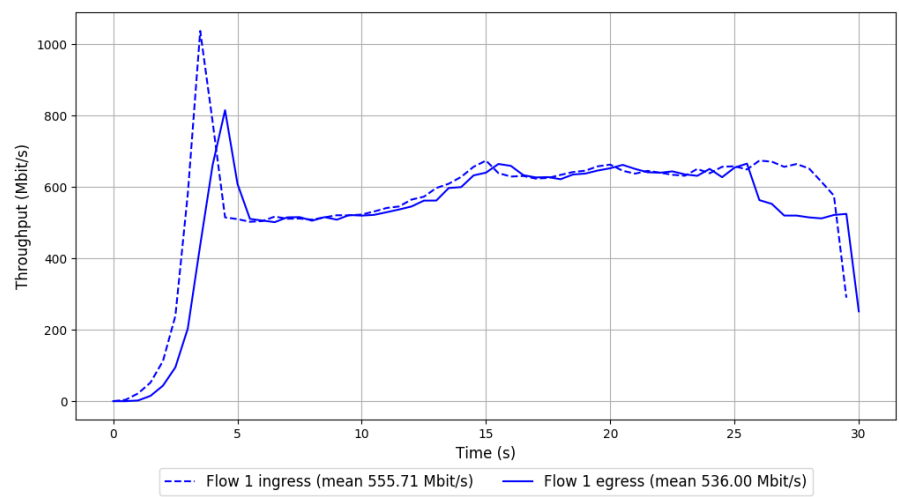


Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 19:42:09
End at: 2018-06-19 19:42:39
Local clock offset: -0.095 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-06-19 21:31:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 536.00 Mbit/s
95th percentile per-packet one-way delay: 280.555 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 536.00 Mbit/s
95th percentile per-packet one-way delay: 280.555 ms
Loss rate: 4.42%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 20:03:32

End at: 2018-06-19 20:04:02

Local clock offset: -0.19 ms

Remote clock offset: -0.442 ms

Below is generated by plot.py at 2018-06-19 21:31:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 527.96 Mbit/s

95th percentile per-packet one-way delay: 281.812 ms

Loss rate: 5.06%

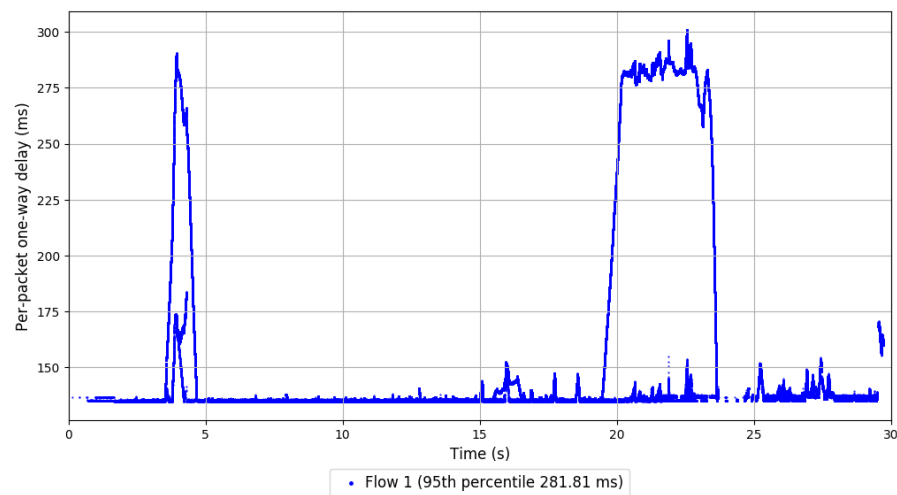
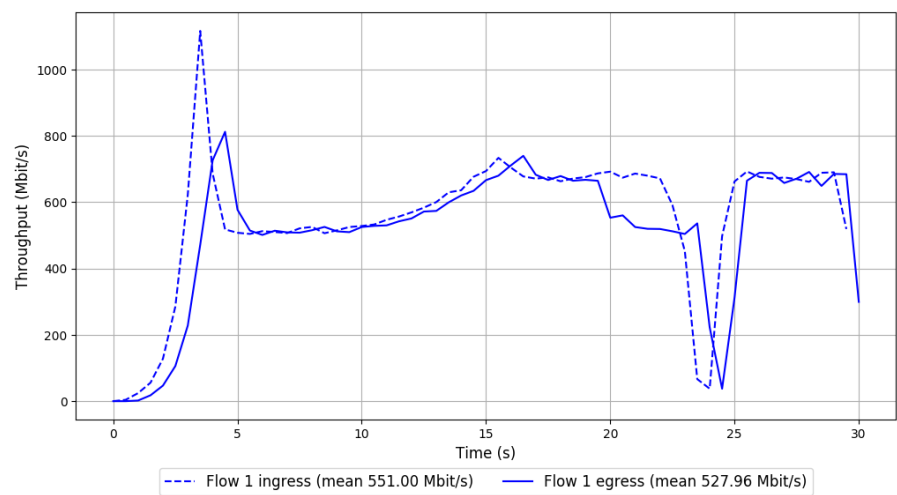
-- Flow 1:

Average throughput: 527.96 Mbit/s

95th percentile per-packet one-way delay: 281.812 ms

Loss rate: 5.06%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 20:24:37

End at: 2018-06-19 20:25:07

Local clock offset: 0.096 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-19 21:31:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 496.09 Mbit/s

95th percentile per-packet one-way delay: 158.099 ms

Loss rate: 2.12%

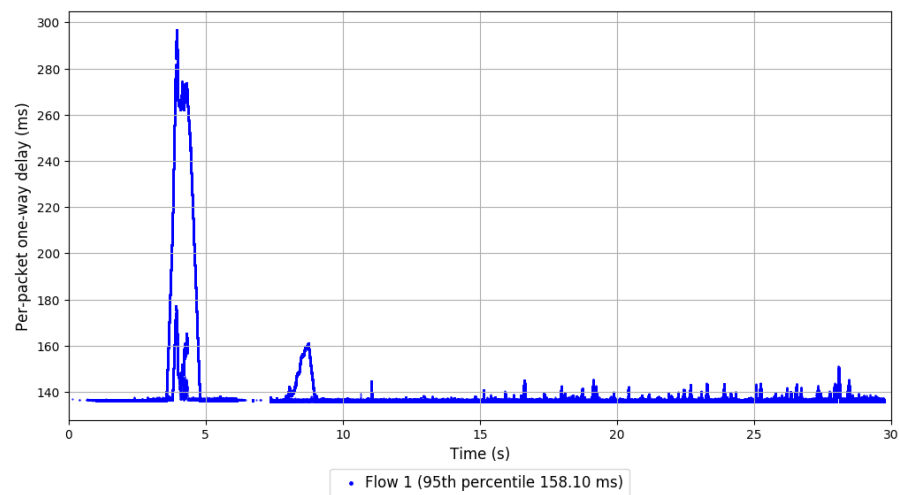
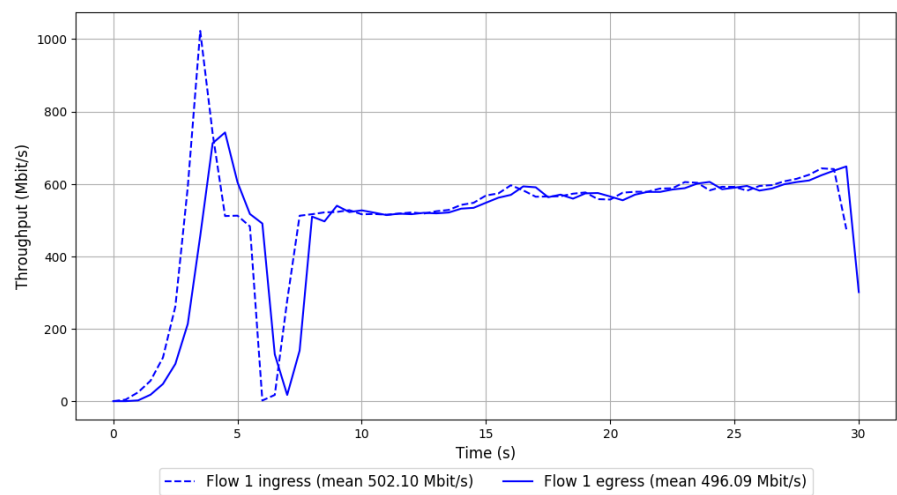
-- Flow 1:

Average throughput: 496.09 Mbit/s

95th percentile per-packet one-way delay: 158.099 ms

Loss rate: 2.12%

Run 10: Report of PCC-Allegro — Data Link

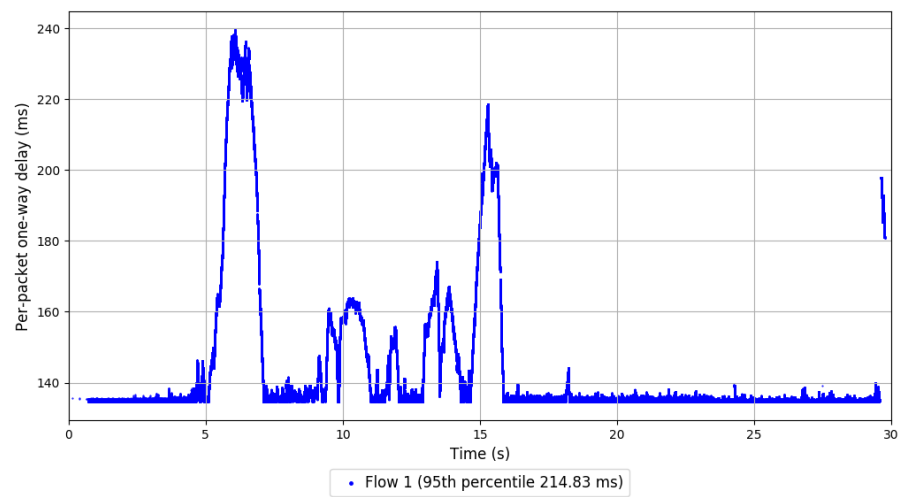
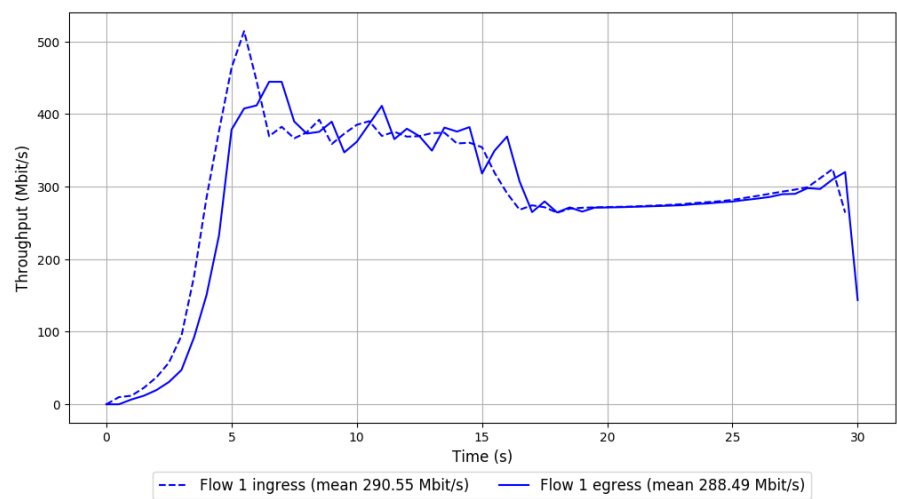


Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 17:10:00
End at: 2018-06-19 17:10:30
Local clock offset: -0.235 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-19 21:31:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 288.49 Mbit/s
95th percentile per-packet one-way delay: 214.828 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 288.49 Mbit/s
95th percentile per-packet one-way delay: 214.828 ms
Loss rate: 1.61%

Run 1: Report of PCC-Expr — Data Link

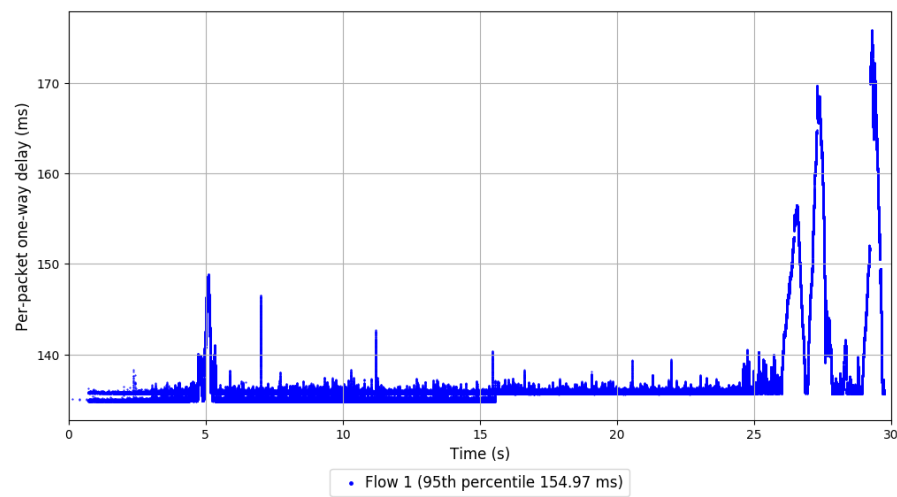
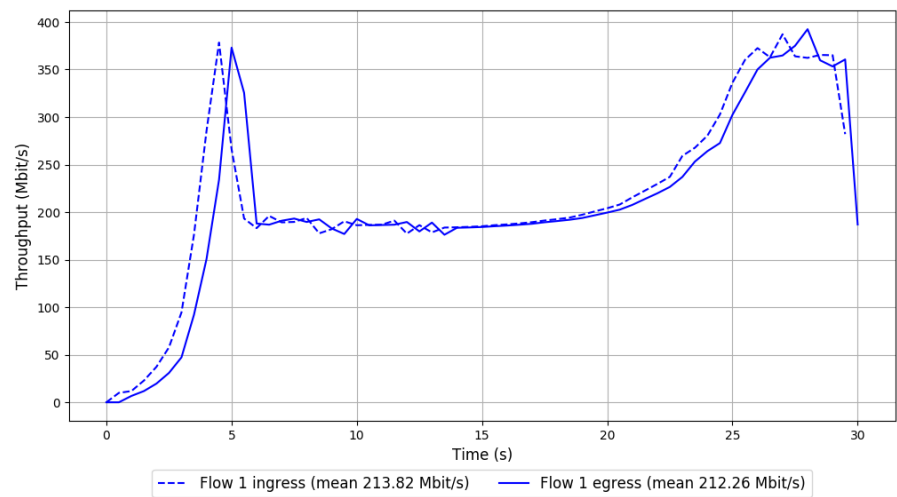


Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 17:31:18
End at: 2018-06-19 17:31:48
Local clock offset: -0.039 ms
Remote clock offset: -0.008 ms

Below is generated by plot.py at 2018-06-19 21:31:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.26 Mbit/s
95th percentile per-packet one-way delay: 154.966 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 212.26 Mbit/s
95th percentile per-packet one-way delay: 154.966 ms
Loss rate: 1.63%

Run 2: Report of PCC-Expr — Data Link

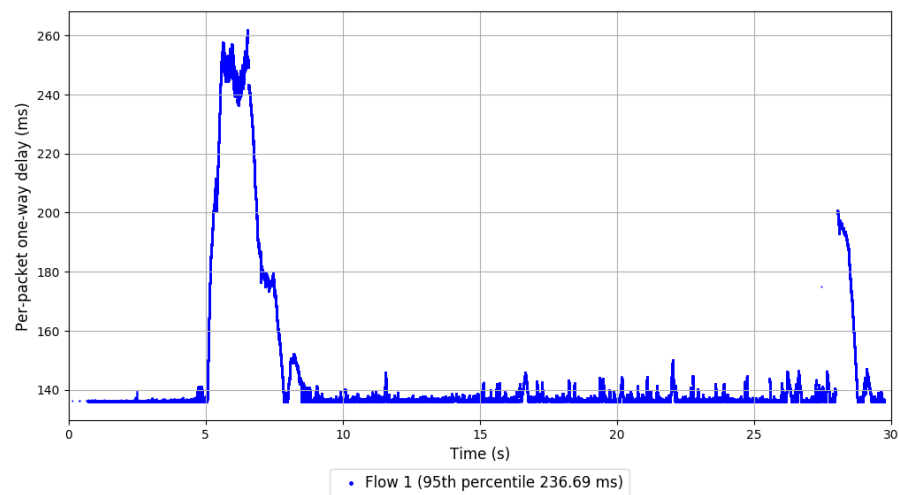
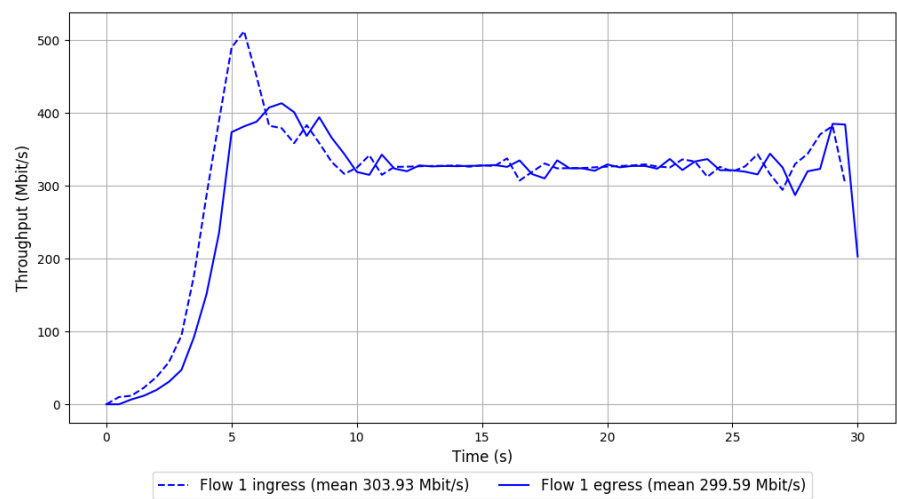


Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 17:52:14
End at: 2018-06-19 17:52:44
Local clock offset: -0.001 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-06-19 21:33:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 299.59 Mbit/s
95th percentile per-packet one-way delay: 236.691 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 299.59 Mbit/s
95th percentile per-packet one-way delay: 236.691 ms
Loss rate: 2.32%

Run 3: Report of PCC-Expr — Data Link

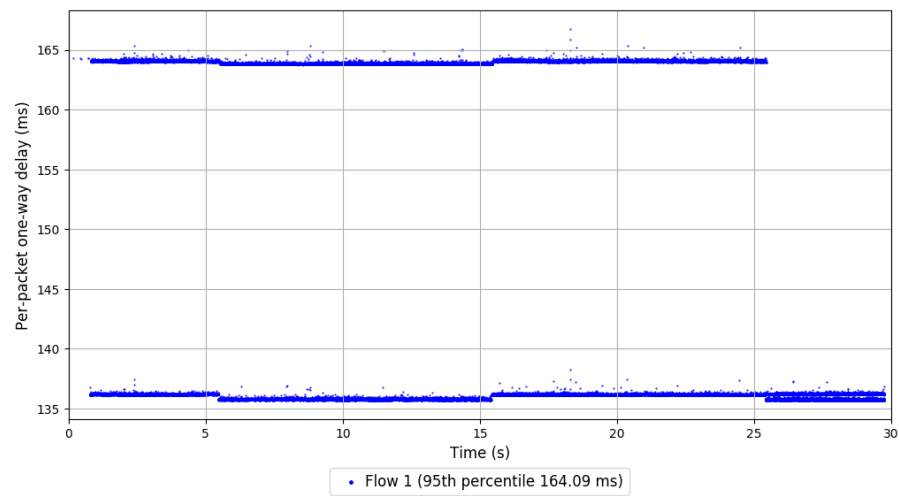
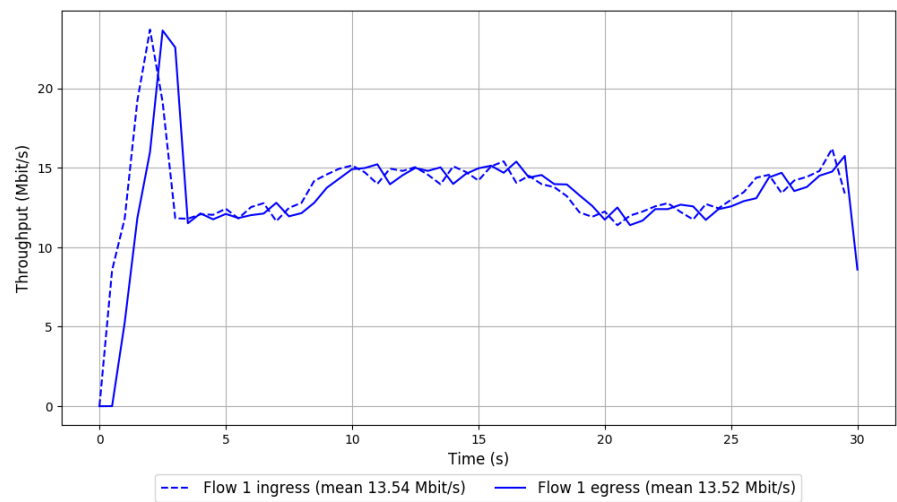


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 18:13:28
End at: 2018-06-19 18:13:58
Local clock offset: 0.042 ms
Remote clock offset: -0.387 ms

Below is generated by plot.py at 2018-06-19 21:33:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 164.093 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 13.52 Mbit/s
95th percentile per-packet one-way delay: 164.093 ms
Loss rate: 1.15%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 18:33:56

End at: 2018-06-19 18:34:26

Local clock offset: 0.168 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-19 21:35:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 327.40 Mbit/s

95th percentile per-packet one-way delay: 177.395 ms

Loss rate: 1.11%

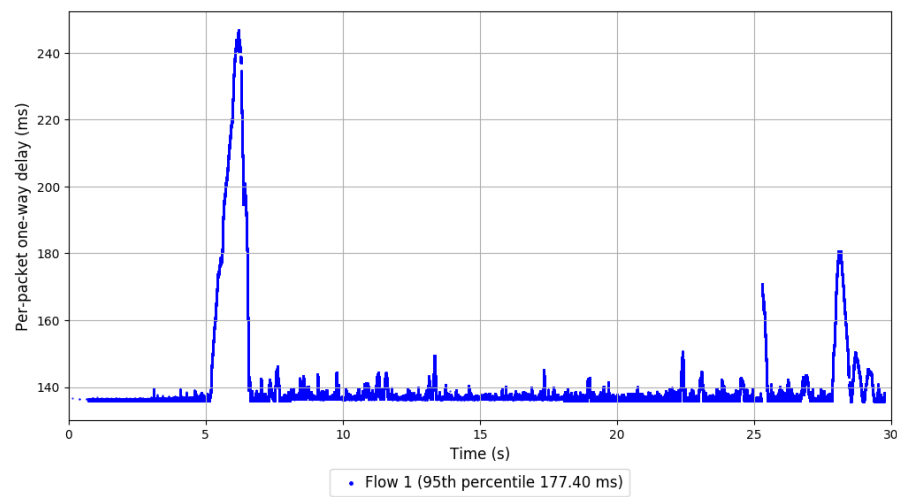
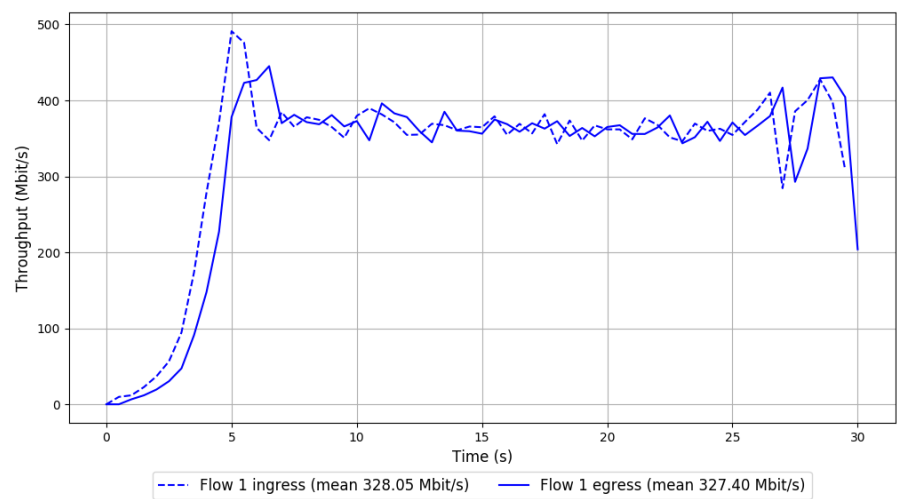
-- Flow 1:

Average throughput: 327.40 Mbit/s

95th percentile per-packet one-way delay: 177.395 ms

Loss rate: 1.11%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 18:55:09

End at: 2018-06-19 18:55:39

Local clock offset: 0.167 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-06-19 21:35:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.36 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 1.00%

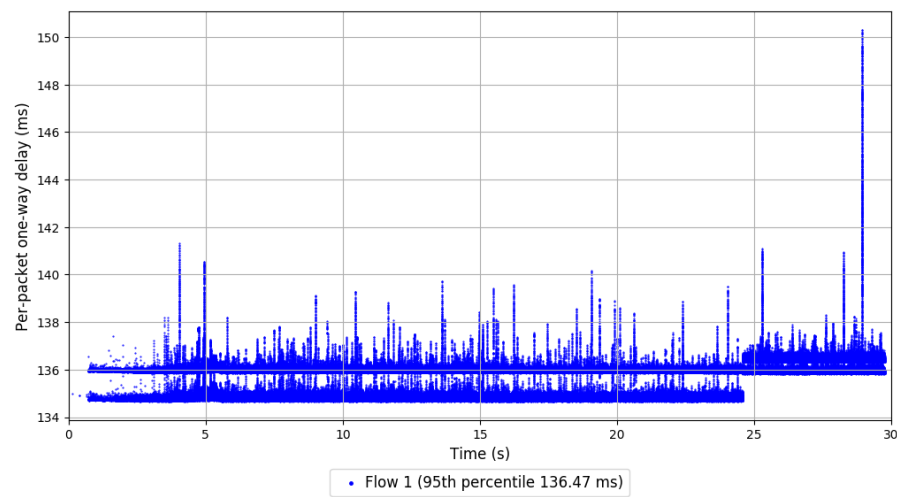
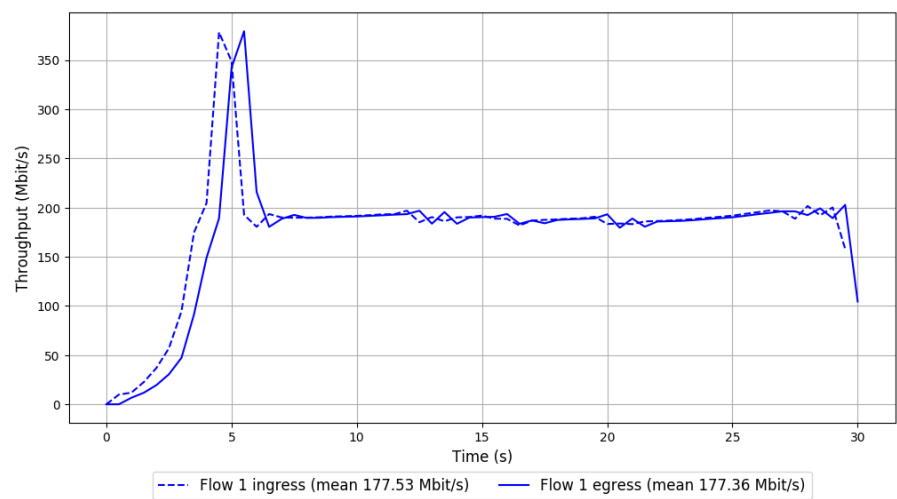
-- Flow 1:

Average throughput: 177.36 Mbit/s

95th percentile per-packet one-way delay: 136.465 ms

Loss rate: 1.00%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 19:16:10

End at: 2018-06-19 19:16:40

Local clock offset: 0.141 ms

Remote clock offset: 0.086 ms

Below is generated by plot.py at 2018-06-19 21:40:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.64 Mbit/s

95th percentile per-packet one-way delay: 192.971 ms

Loss rate: 1.67%

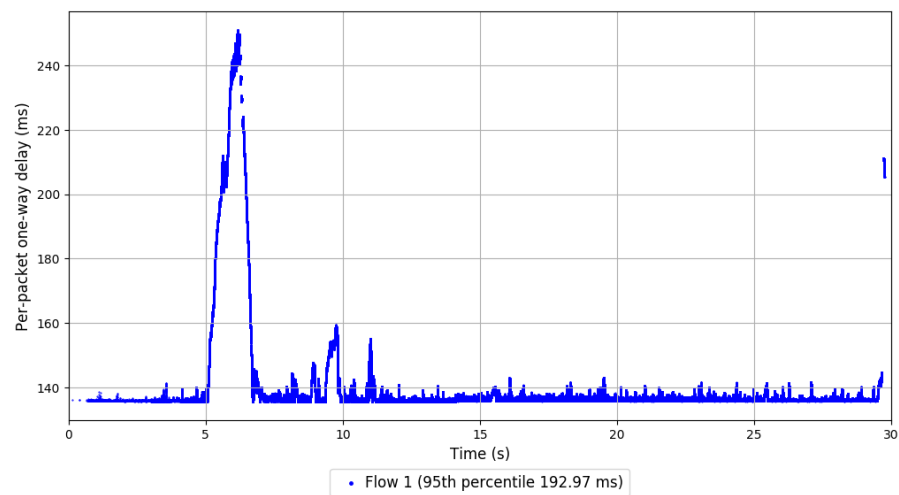
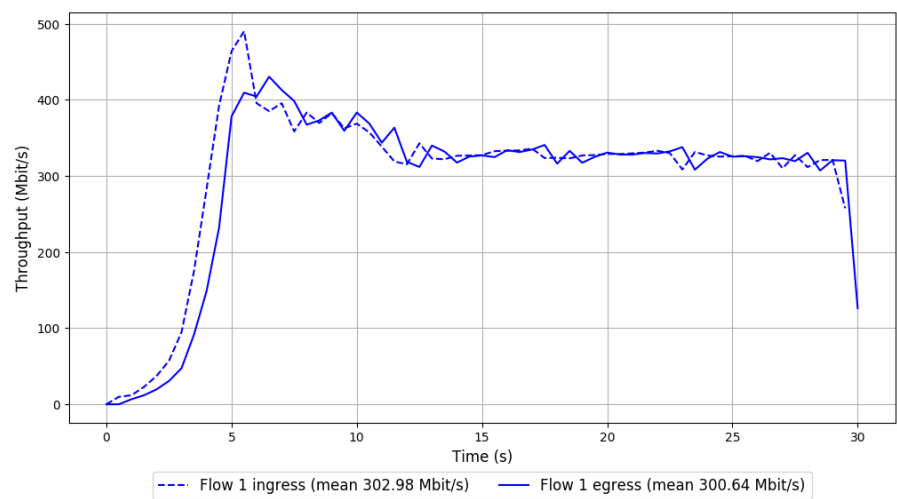
-- Flow 1:

Average throughput: 300.64 Mbit/s

95th percentile per-packet one-way delay: 192.971 ms

Loss rate: 1.67%

Run 7: Report of PCC-Expr — Data Link

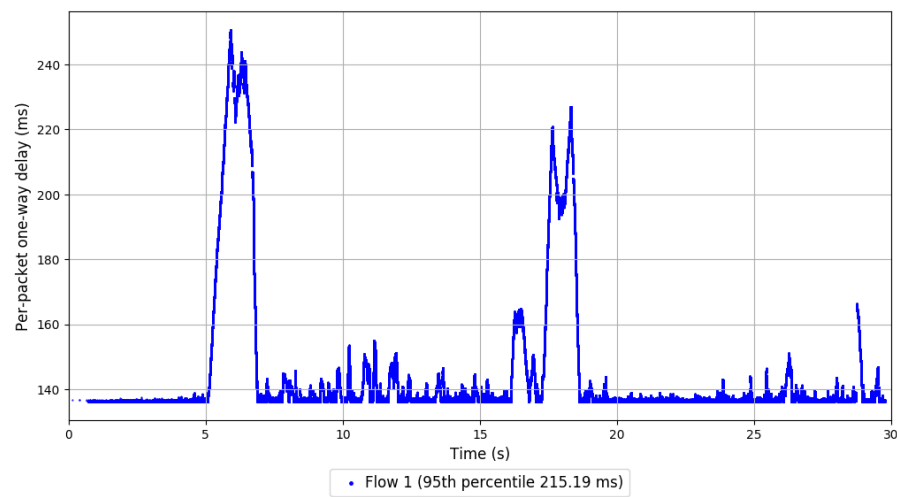
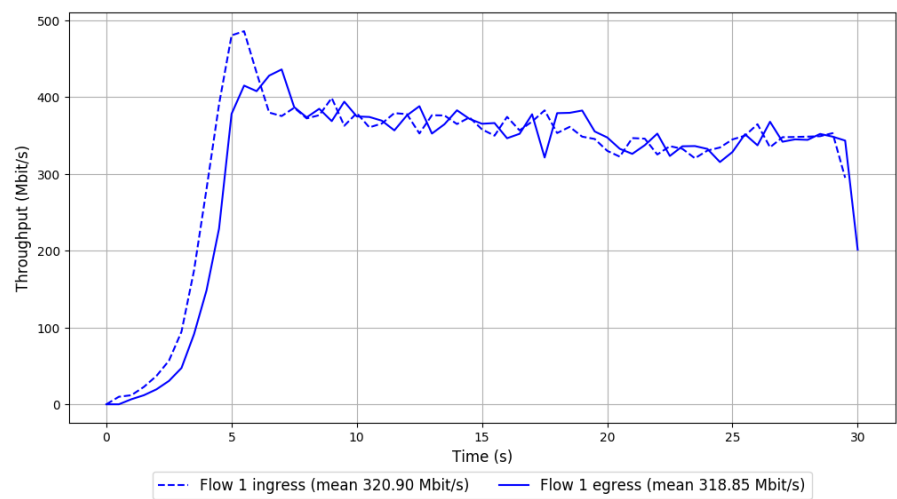


Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 19:37:43
End at: 2018-06-19 19:38:13
Local clock offset: 0.219 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-19 21:41:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 318.85 Mbit/s
95th percentile per-packet one-way delay: 215.190 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 318.85 Mbit/s
95th percentile per-packet one-way delay: 215.190 ms
Loss rate: 1.54%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 19:59:10

End at: 2018-06-19 19:59:40

Local clock offset: -0.0 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 354.58 Mbit/s

95th percentile per-packet one-way delay: 252.849 ms

Loss rate: 1.94%

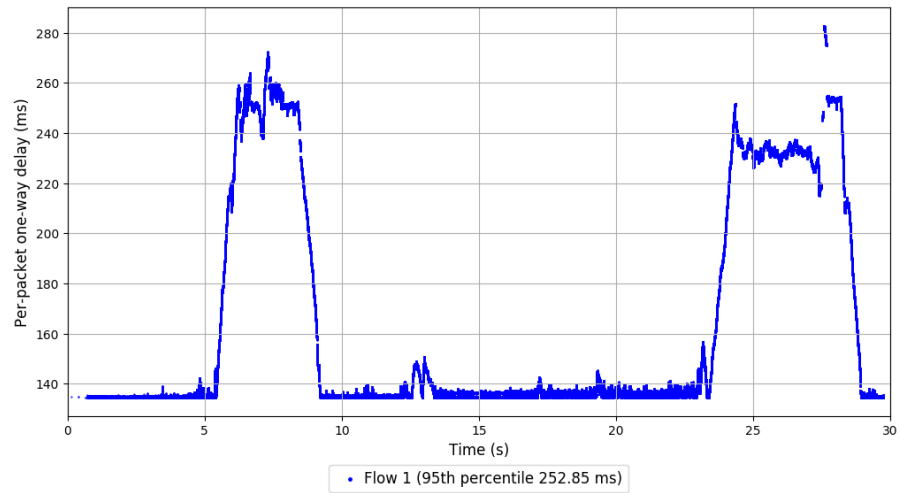
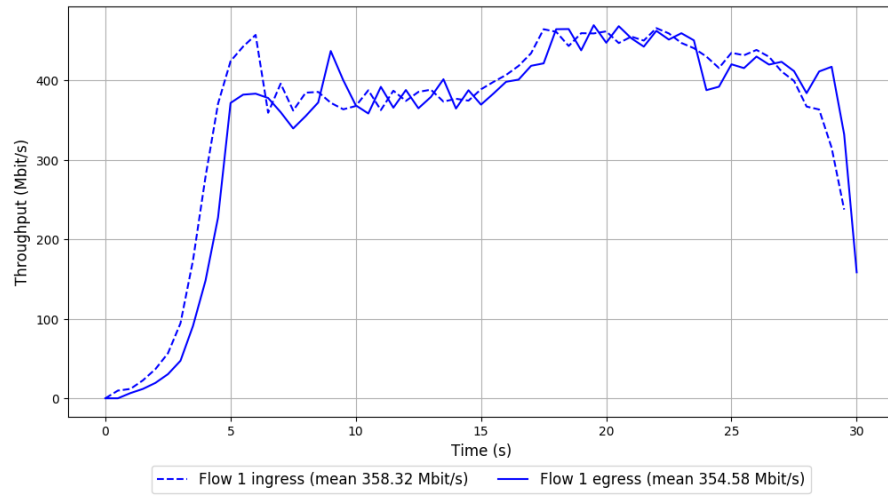
-- Flow 1:

Average throughput: 354.58 Mbit/s

95th percentile per-packet one-way delay: 252.849 ms

Loss rate: 1.94%

Run 9: Report of PCC-Expr — Data Link

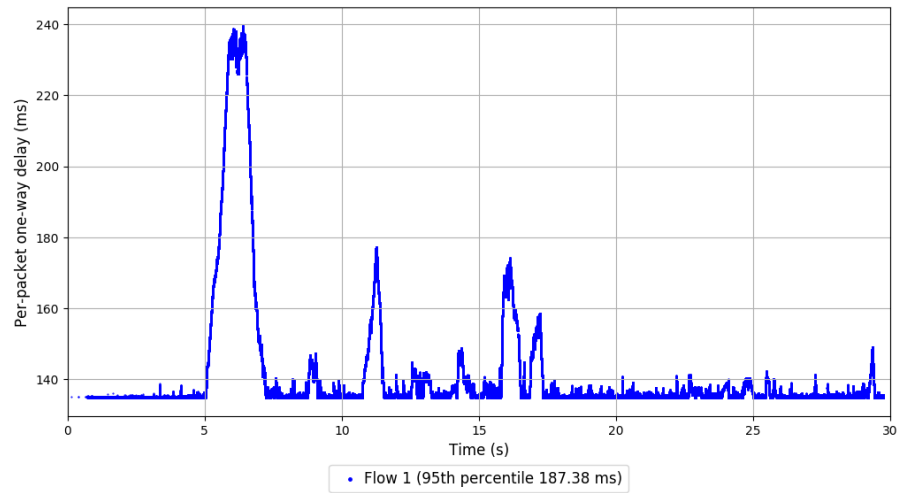
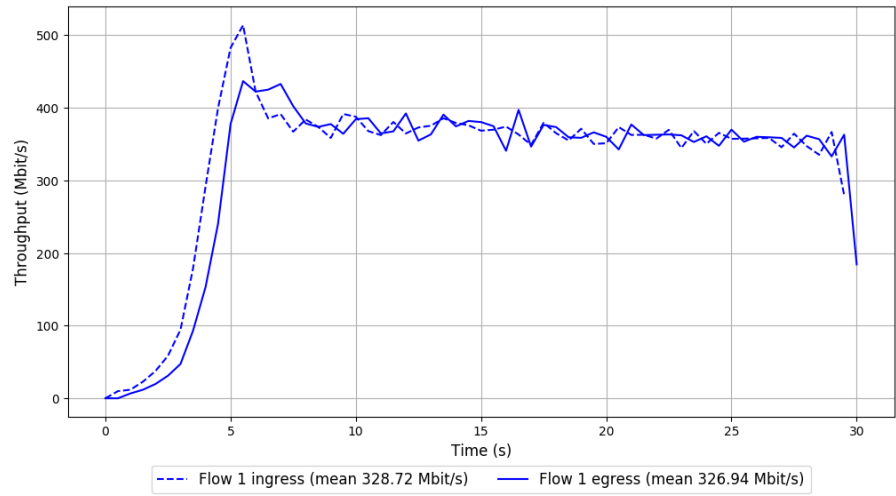


Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 20:20:13
End at: 2018-06-19 20:20:43
Local clock offset: -0.06 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 326.94 Mbit/s
95th percentile per-packet one-way delay: 187.380 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 326.94 Mbit/s
95th percentile per-packet one-way delay: 187.380 ms
Loss rate: 1.45%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-19 17:19:38

End at: 2018-06-19 17:20:08

Local clock offset: -0.195 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 135.303 ms

Loss rate: 1.43%

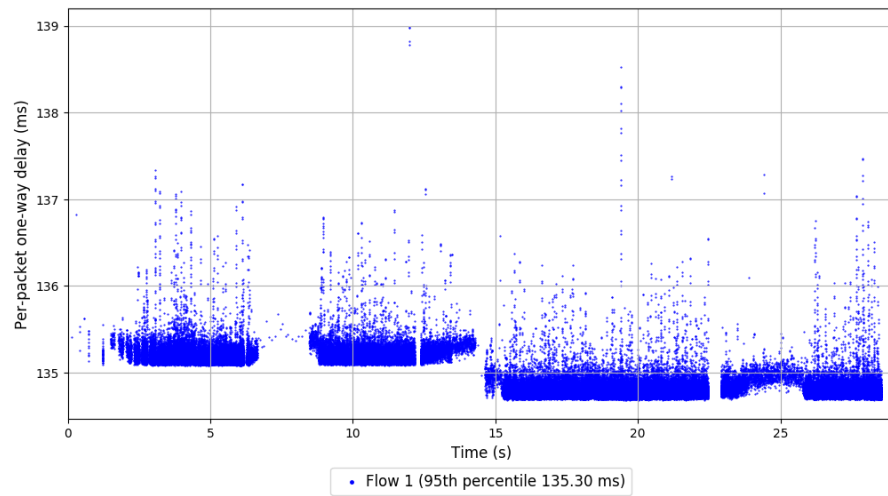
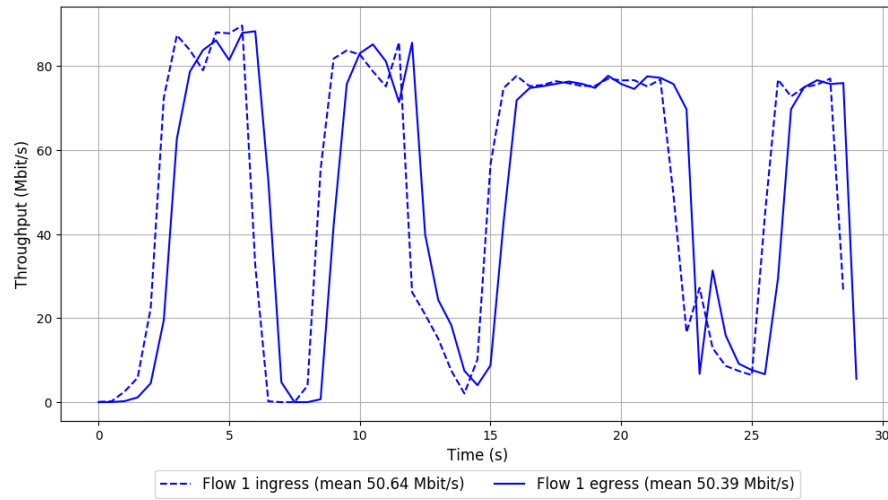
-- Flow 1:

Average throughput: 50.39 Mbit/s

95th percentile per-packet one-way delay: 135.303 ms

Loss rate: 1.43%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

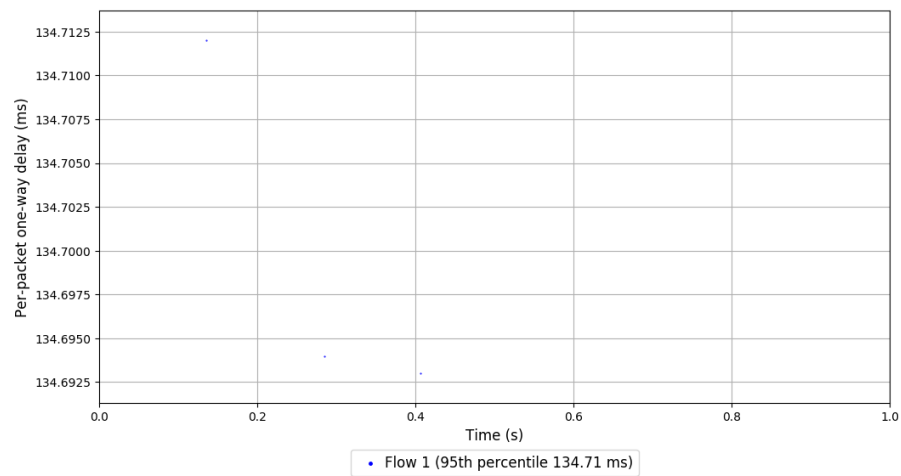
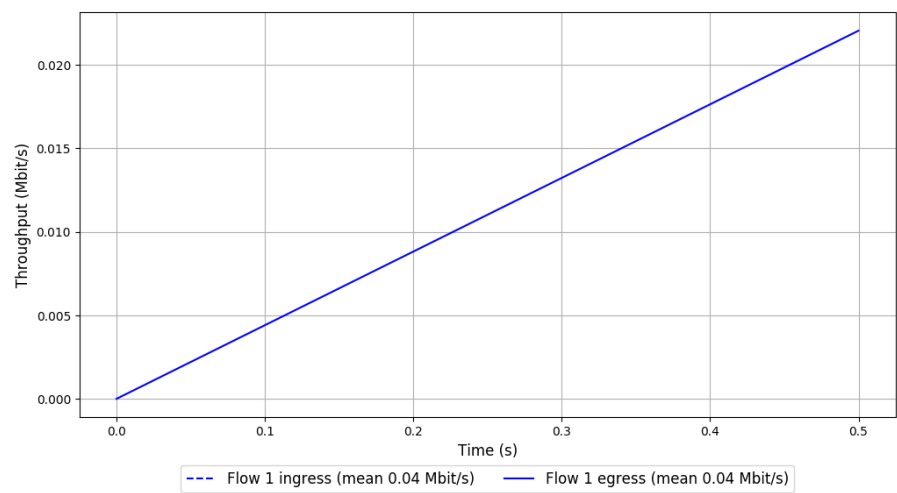
Start at: 2018-06-19 17:40:39

End at: 2018-06-19 17:41:09

Local clock offset: -0.082 ms

Remote clock offset: 0.001 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-19 18:01:51

End at: 2018-06-19 18:02:21

Local clock offset: 0.157 ms

Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 135.772 ms

Loss rate: 1.33%

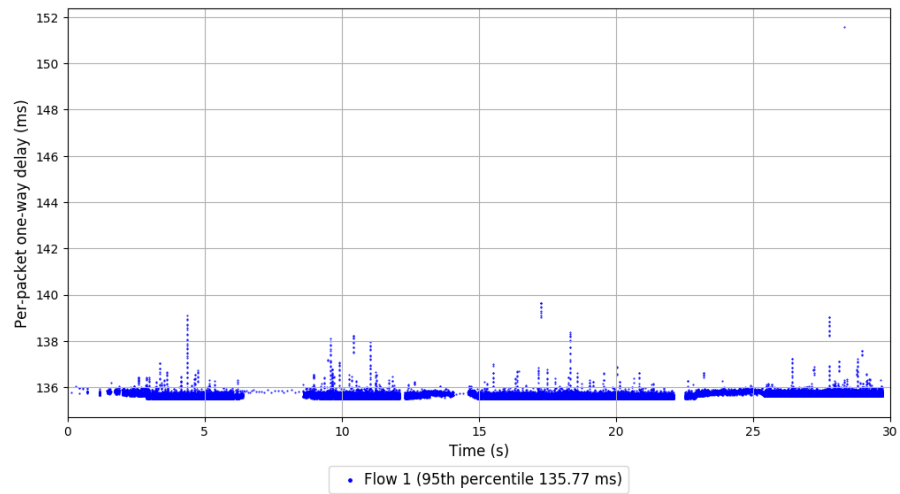
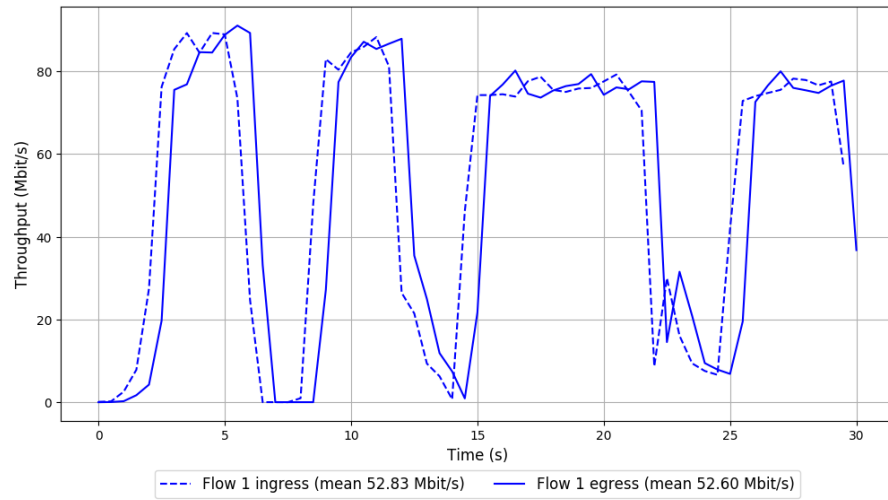
-- Flow 1:

Average throughput: 52.60 Mbit/s

95th percentile per-packet one-way delay: 135.772 ms

Loss rate: 1.33%

Run 3: Report of QUIC Cubic — Data Link

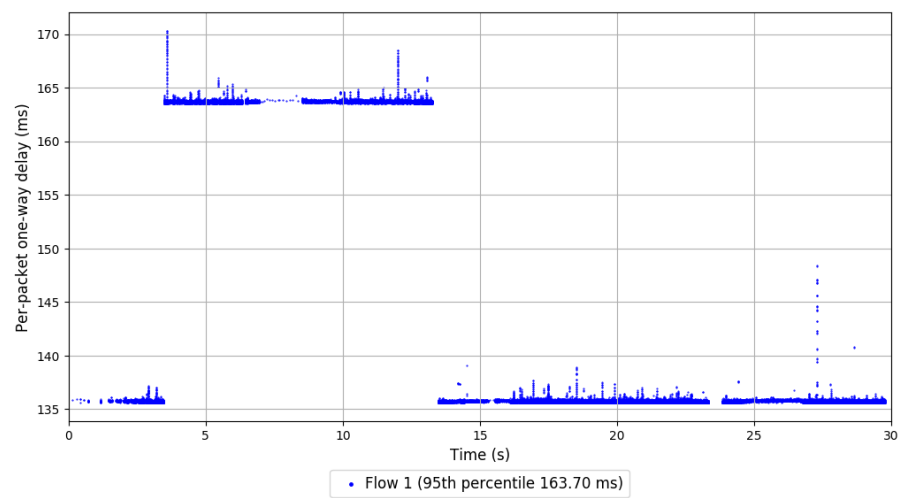
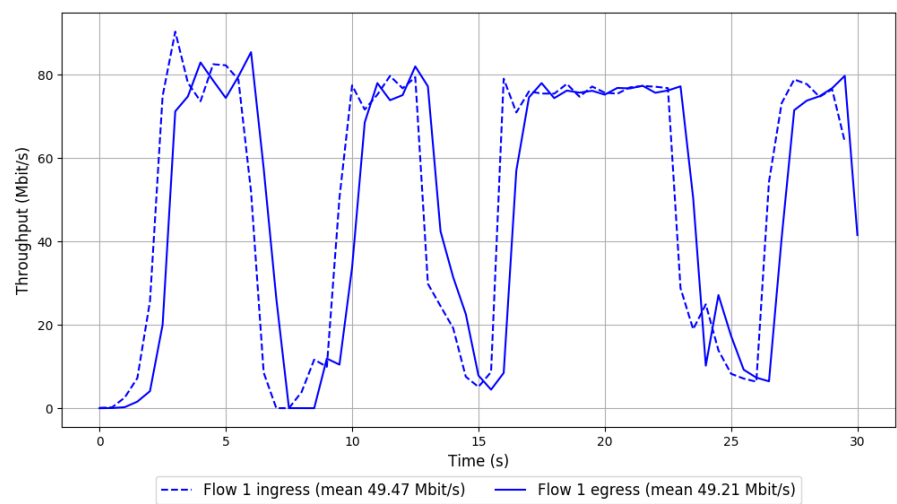


Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 18:22:30
End at: 2018-06-19 18:23:00
Local clock offset: -0.12 ms
Remote clock offset: -0.366 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 163.700 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 163.700 ms
Loss rate: 1.42%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

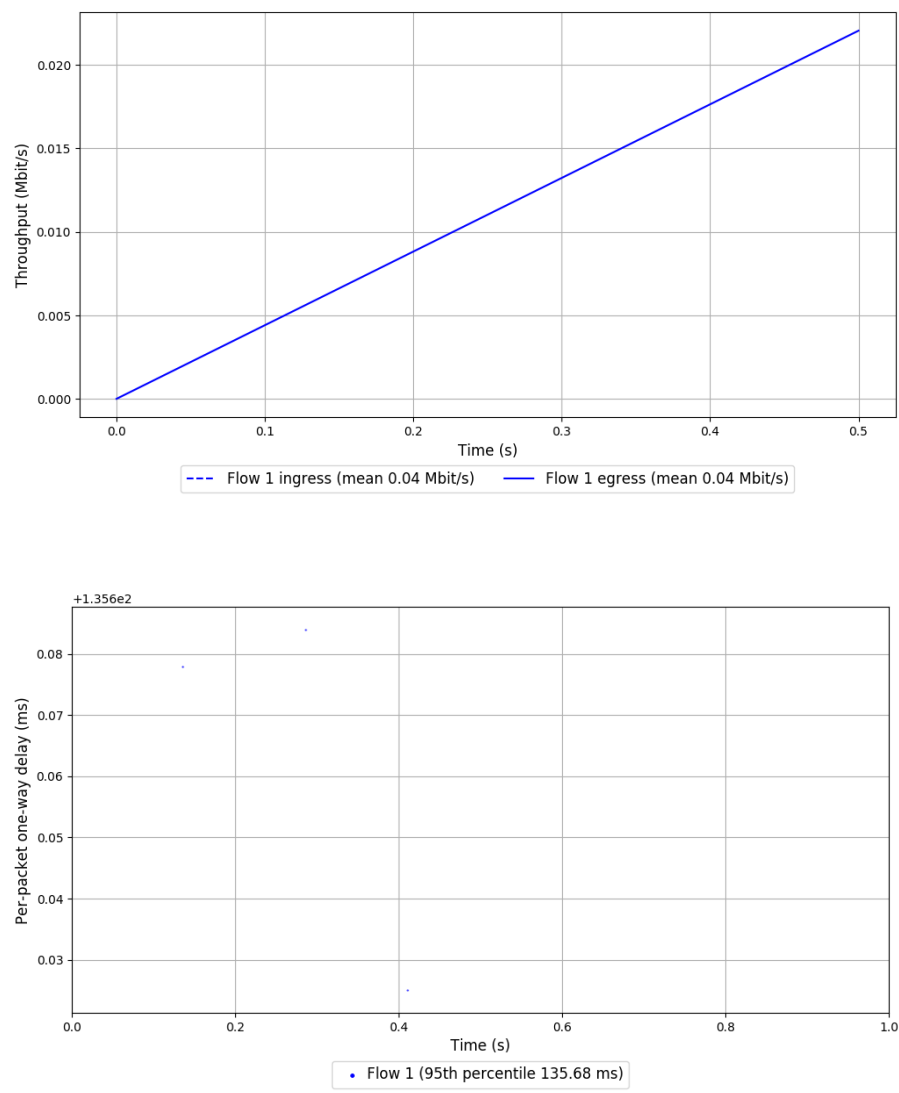
Start at: 2018-06-19 18:43:33

End at: 2018-06-19 18:44:03

Local clock offset: -0.283 ms

Remote clock offset: 0.433 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

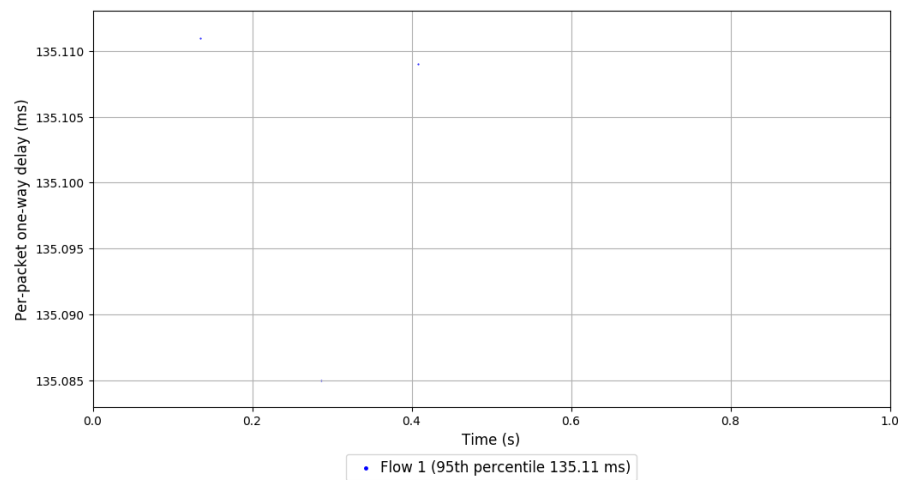
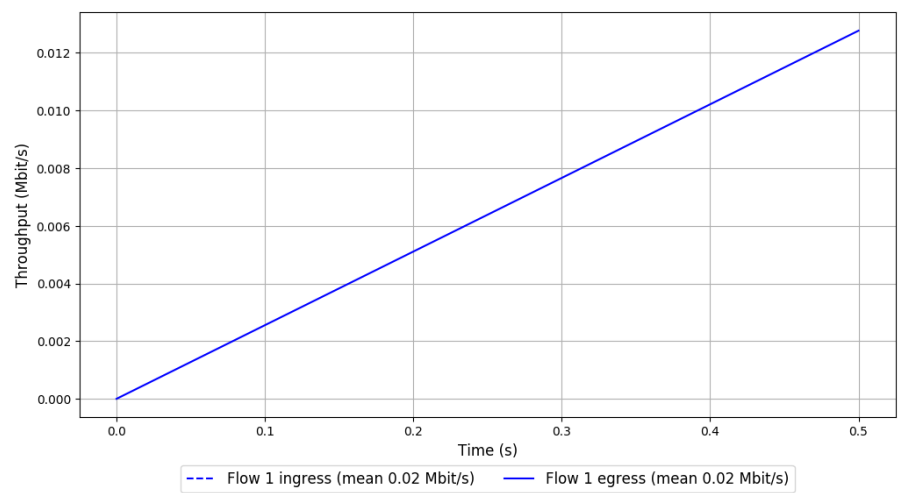
Start at: 2018-06-19 19:04:30

End at: 2018-06-19 19:05:00

Local clock offset: 0.062 ms

Remote clock offset: 0.112 ms

Run 6: Report of QUIC Cubic — Data Link

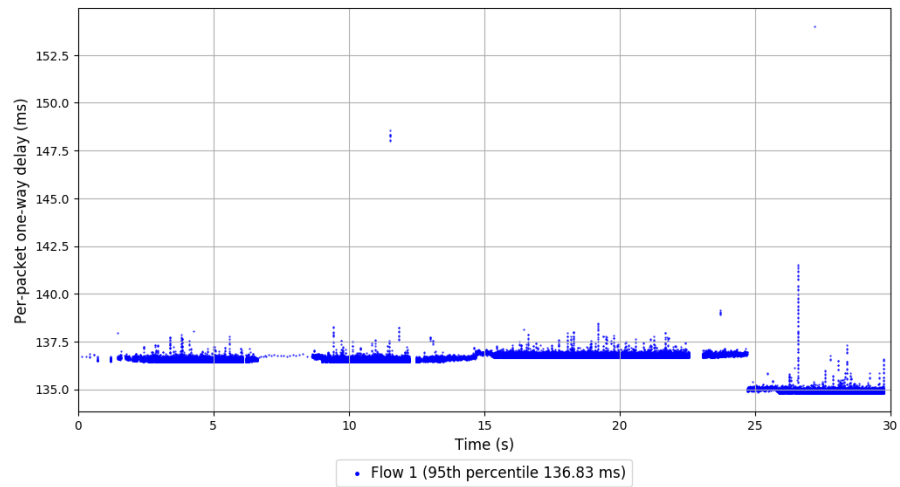
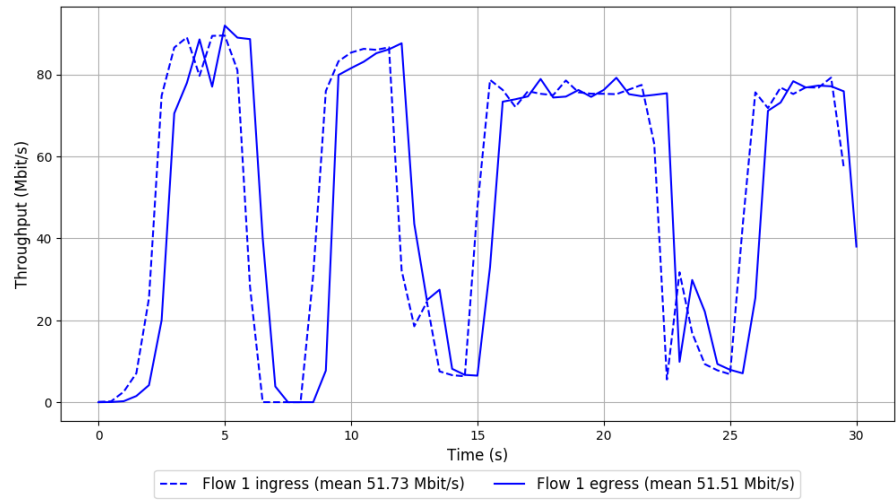


Run 7: Statistics of QUIC Cubic

Start at: 2018-06-19 19:25:39
End at: 2018-06-19 19:26:09
Local clock offset: -0.027 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 51.51 Mbit/s
95th percentile per-packet one-way delay: 136.828 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 51.51 Mbit/s
95th percentile per-packet one-way delay: 136.828 ms
Loss rate: 1.34%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-19 19:47:24

End at: 2018-06-19 19:47:54

Local clock offset: 0.019 ms

Remote clock offset: -0.393 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.16 Mbit/s

95th percentile per-packet one-way delay: 136.922 ms

Loss rate: 1.26%

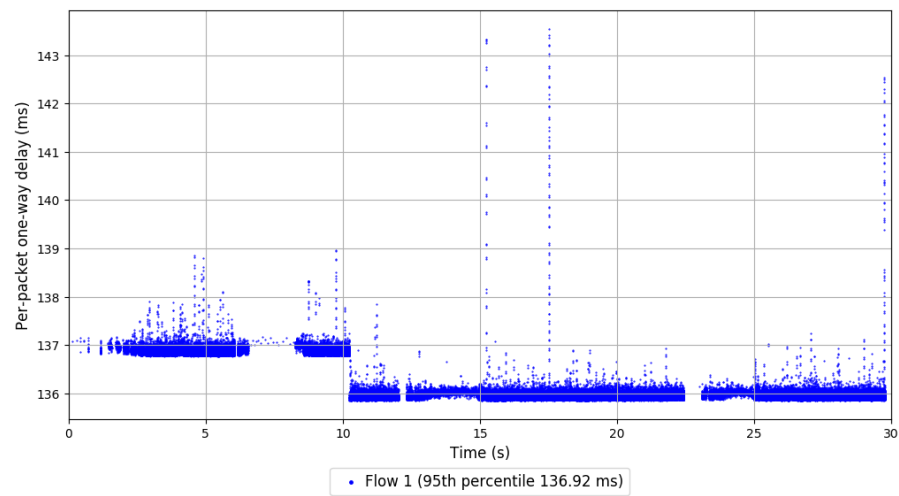
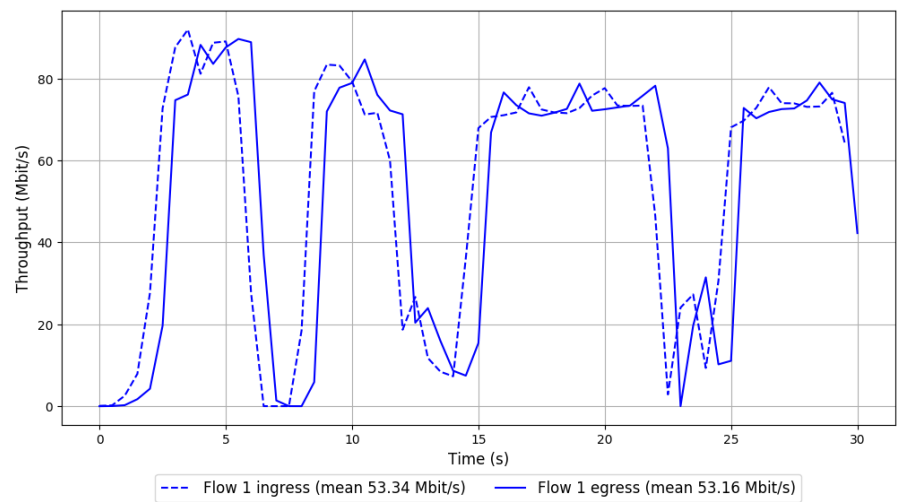
-- Flow 1:

Average throughput: 53.16 Mbit/s

95th percentile per-packet one-way delay: 136.922 ms

Loss rate: 1.26%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 20:08:45

End at: 2018-06-19 20:09:15

Local clock offset: -0.155 ms

Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 135.752 ms

Loss rate: 1.32%

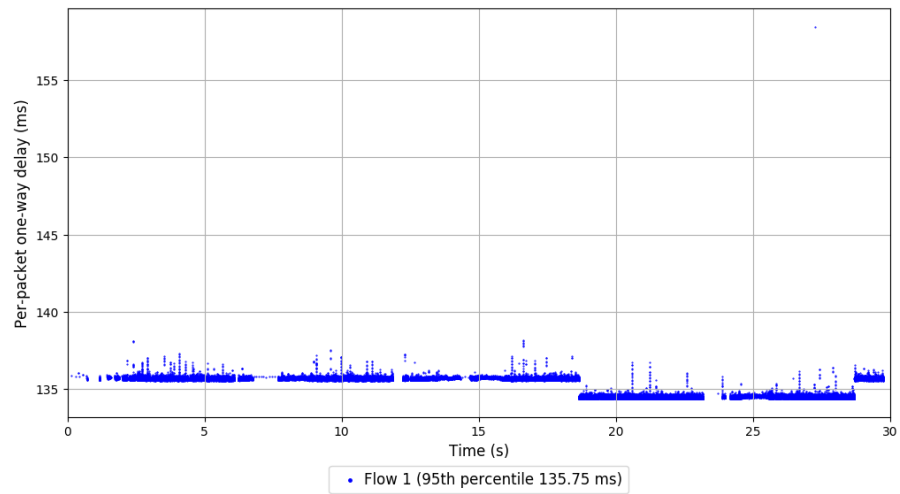
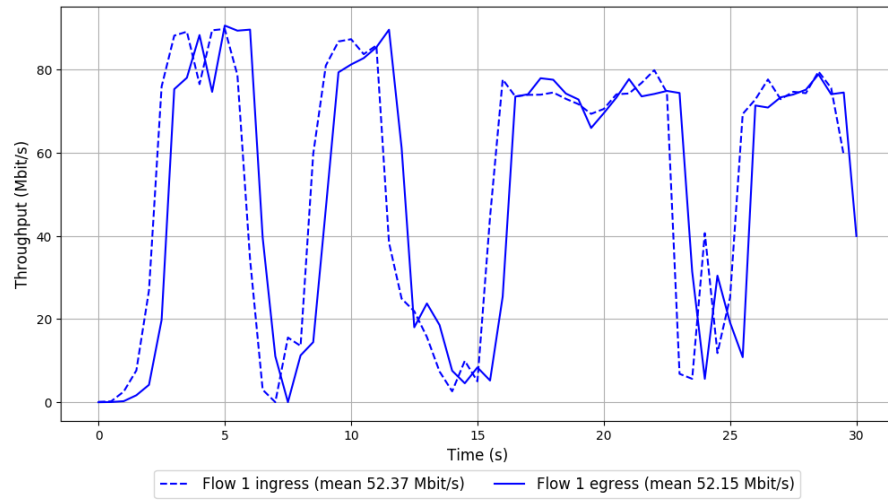
-- Flow 1:

Average throughput: 52.15 Mbit/s

95th percentile per-packet one-way delay: 135.752 ms

Loss rate: 1.32%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

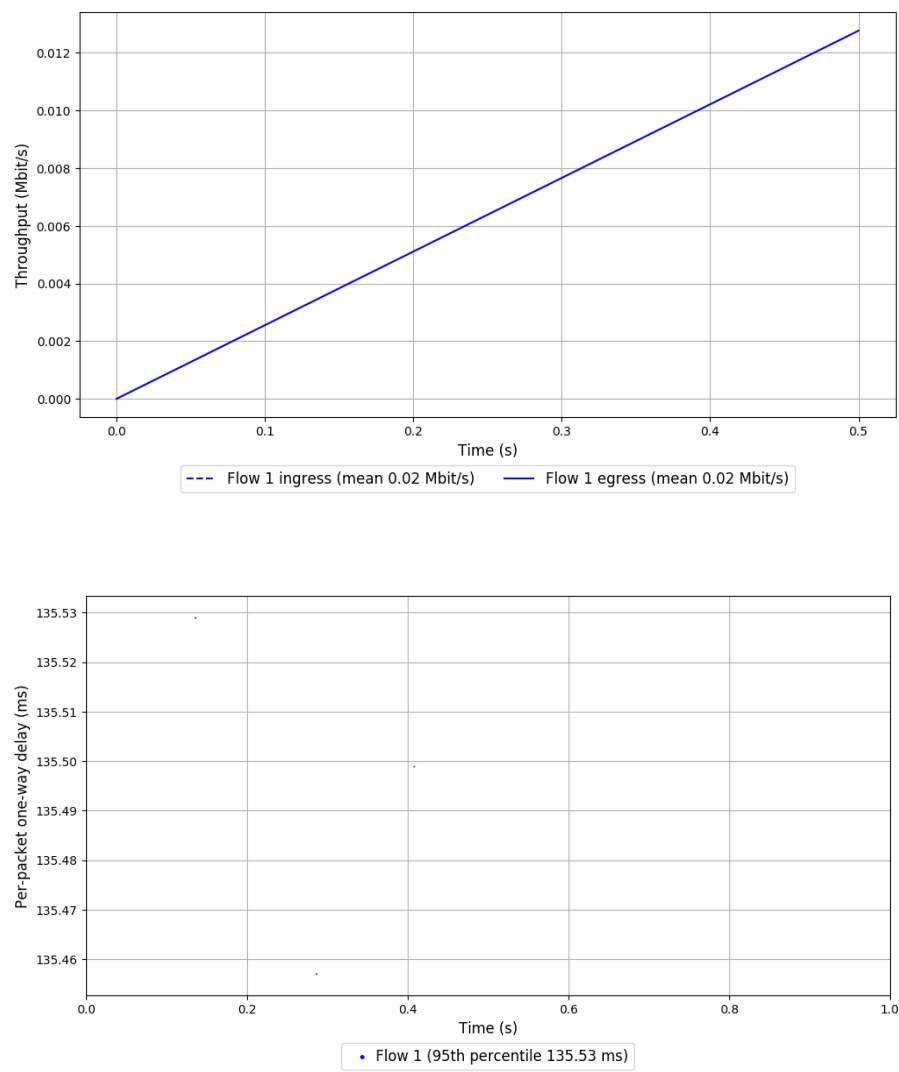
Start at: 2018-06-19 20:29:49

End at: 2018-06-19 20:30:19

Local clock offset: -0.172 ms

Remote clock offset: -0.002 ms

Run 10: Report of QUIC Cubic — Data Link

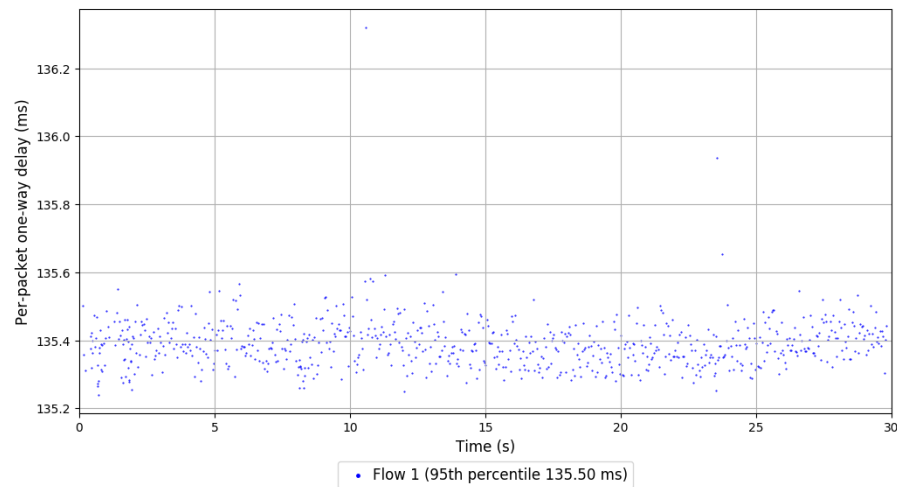
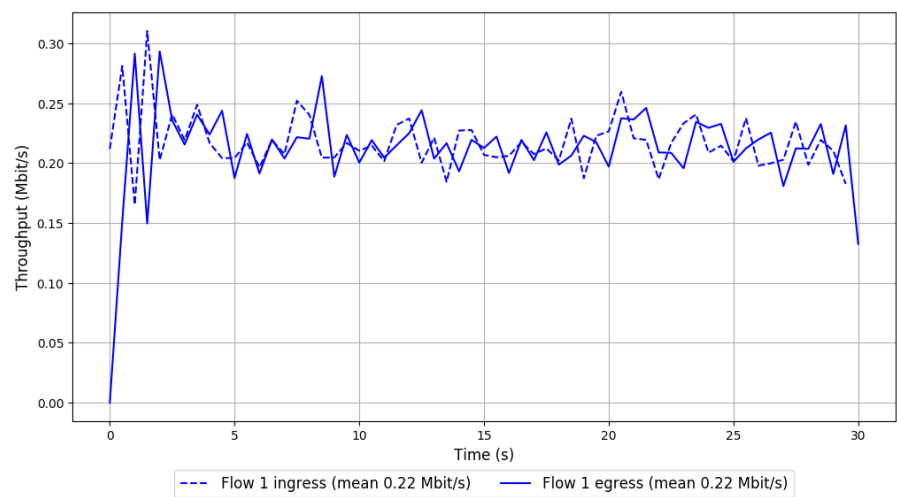


Run 1: Statistics of SCReAM

Start at: 2018-06-19 17:05:50
End at: 2018-06-19 17:06:20
Local clock offset: 0.133 ms
Remote clock offset: -0.058 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.498 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.498 ms
Loss rate: 0.76%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-19 17:27:07

End at: 2018-06-19 17:27:37

Local clock offset: 0.066 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 0.76%

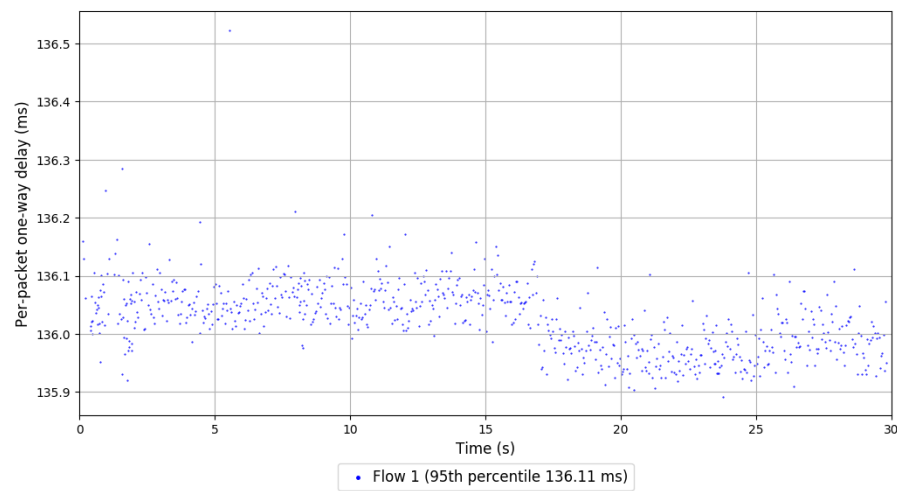
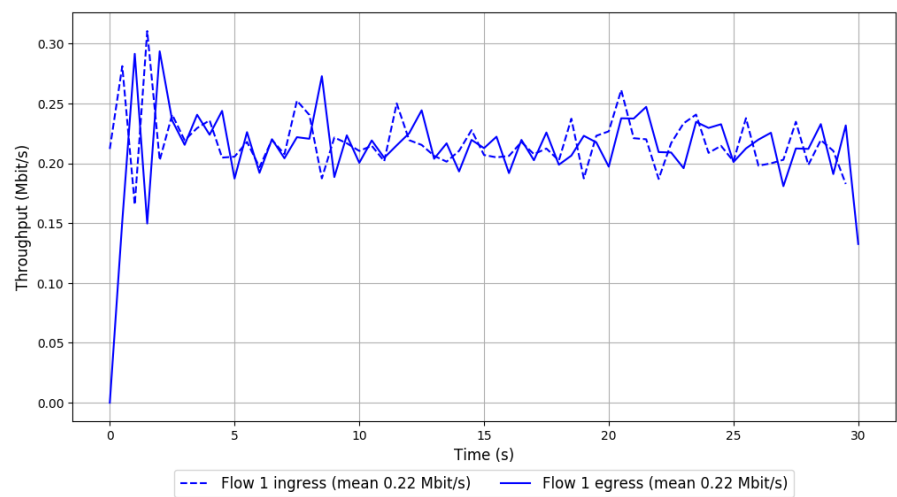
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.111 ms

Loss rate: 0.76%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-06-19 17:48:01

End at: 2018-06-19 17:48:31

Local clock offset: -0.113 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.663 ms

Loss rate: 0.89%

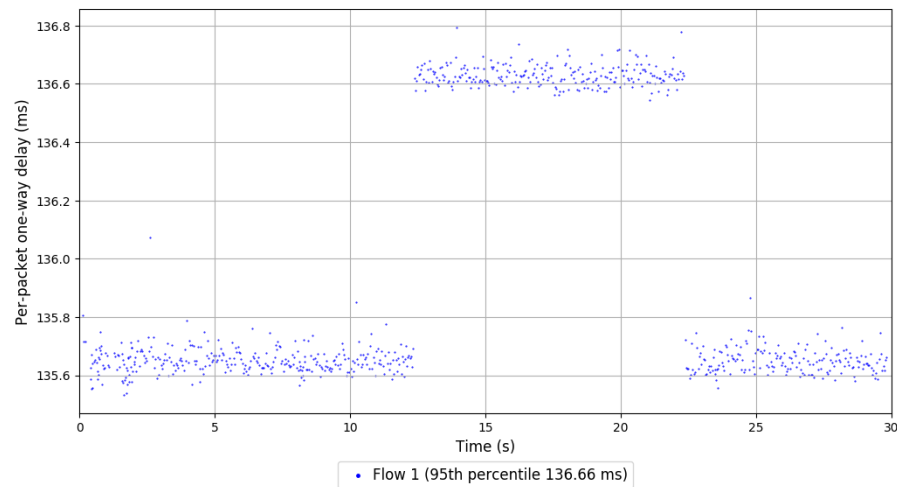
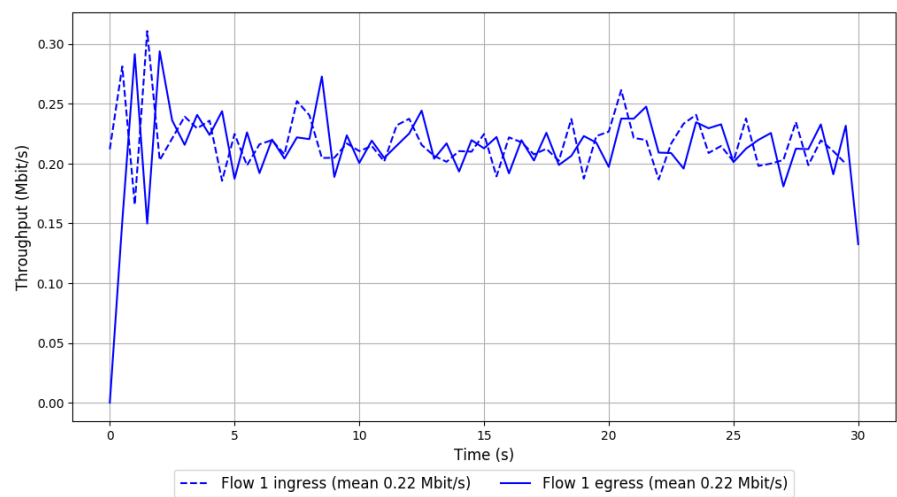
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.663 ms

Loss rate: 0.89%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-19 18:09:13

End at: 2018-06-19 18:09:43

Local clock offset: 0.129 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.820 ms

Loss rate: 0.89%

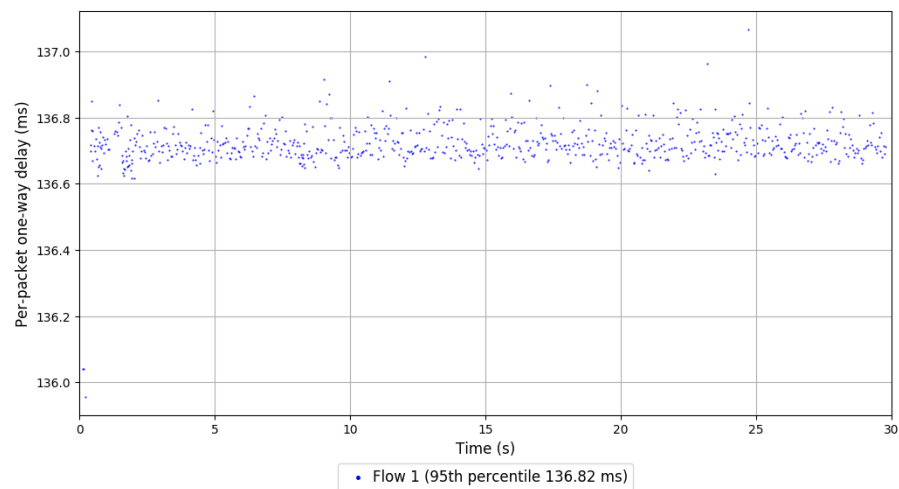
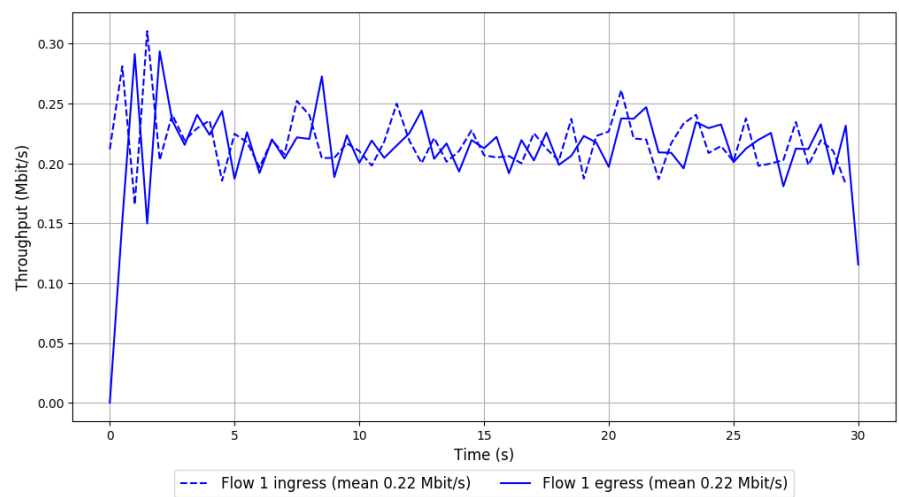
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.820 ms

Loss rate: 0.89%

Run 4: Report of SReAM — Data Link

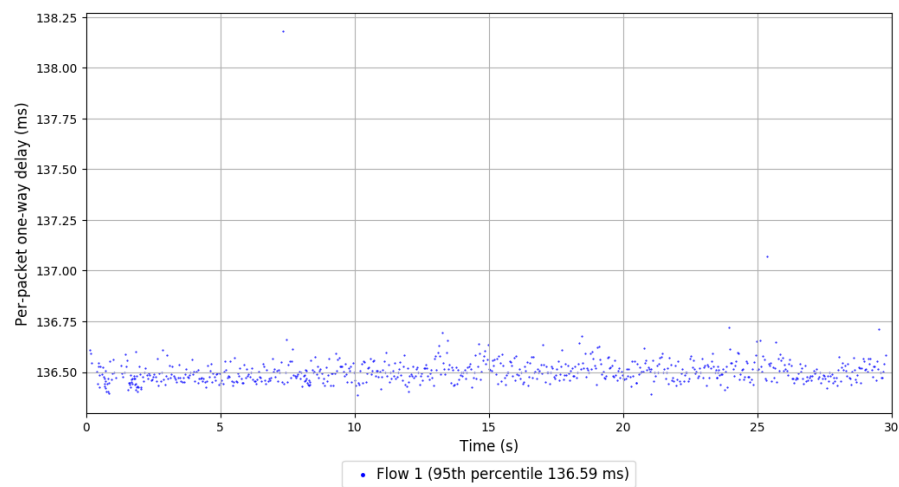
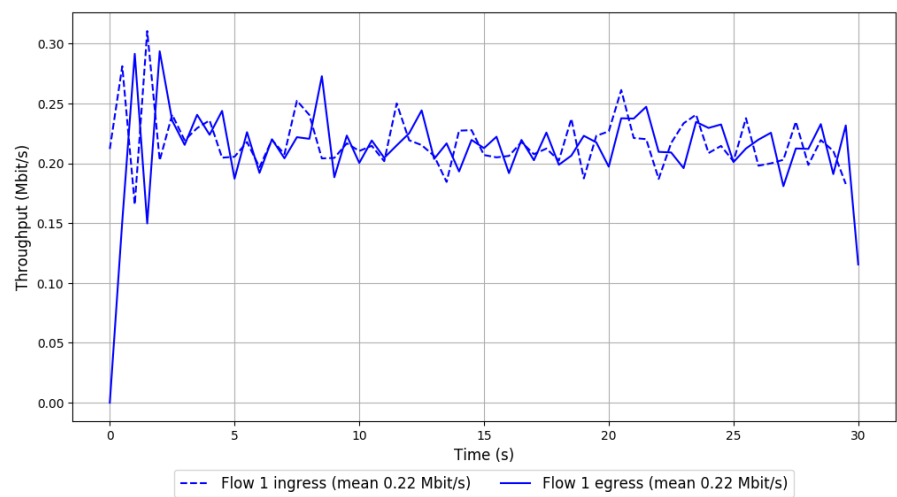


Run 5: Statistics of SCReAM

Start at: 2018-06-19 18:29:46
End at: 2018-06-19 18:30:16
Local clock offset: 0.04 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.590 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.590 ms
Loss rate: 0.89%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-19 18:50:57

End at: 2018-06-19 18:51:27

Local clock offset: -0.186 ms

Remote clock offset: 0.098 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.216 ms

Loss rate: 0.76%

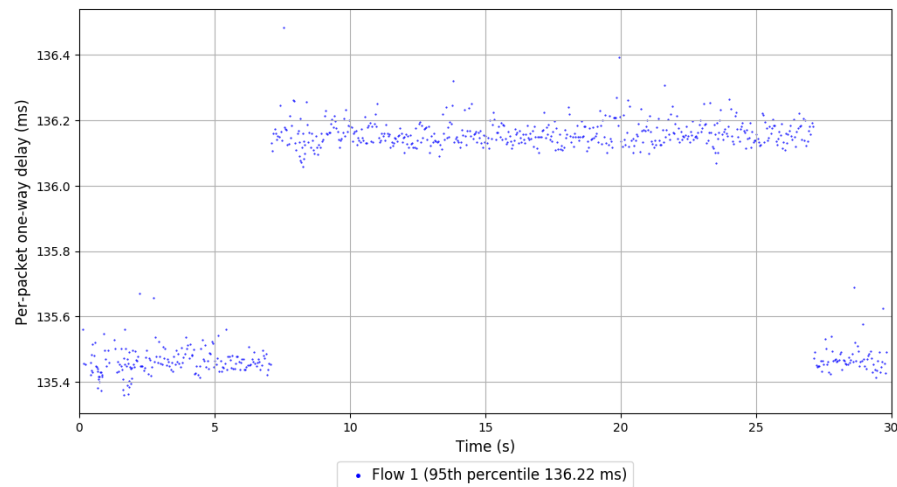
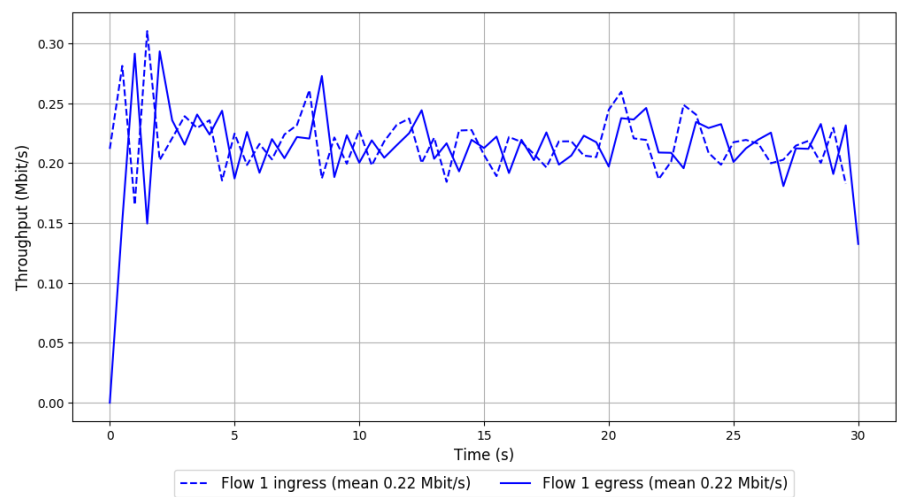
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.216 ms

Loss rate: 0.76%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-06-19 19:12:00

End at: 2018-06-19 19:12:30

Local clock offset: 0.232 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.76%

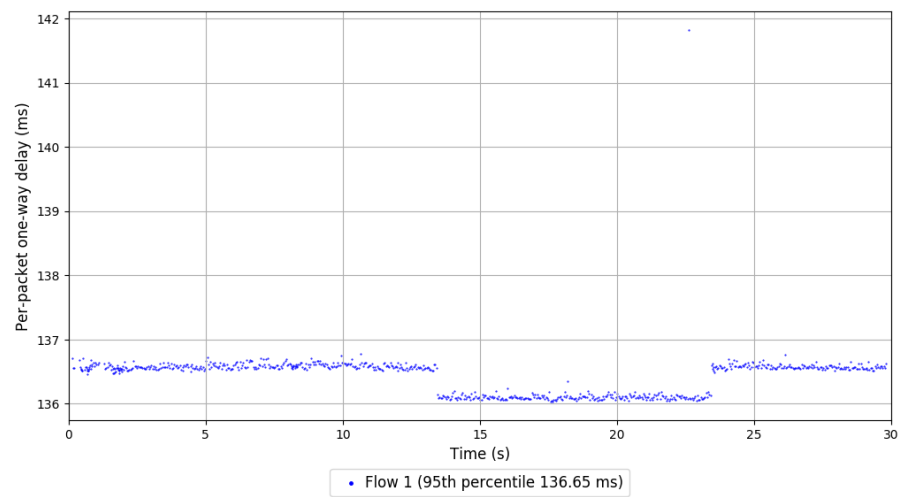
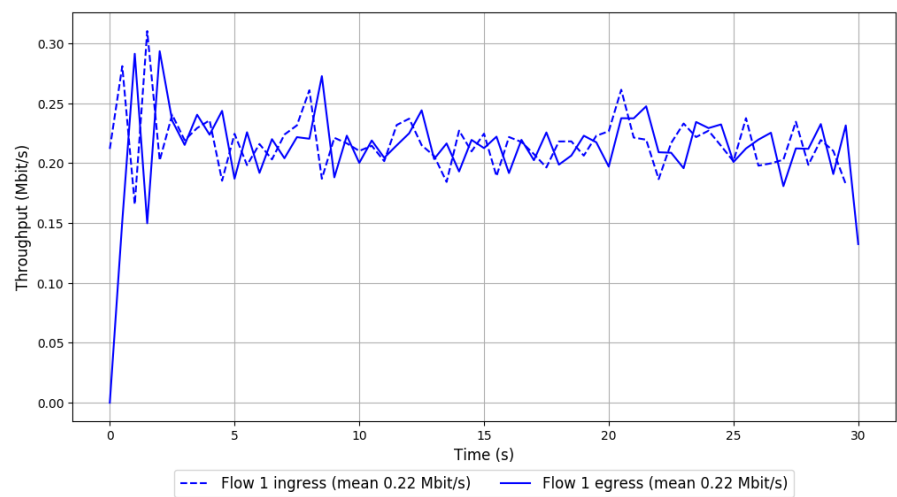
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.653 ms

Loss rate: 0.76%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-19 19:33:18

End at: 2018-06-19 19:33:48

Local clock offset: 0.066 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.956 ms

Loss rate: 0.89%

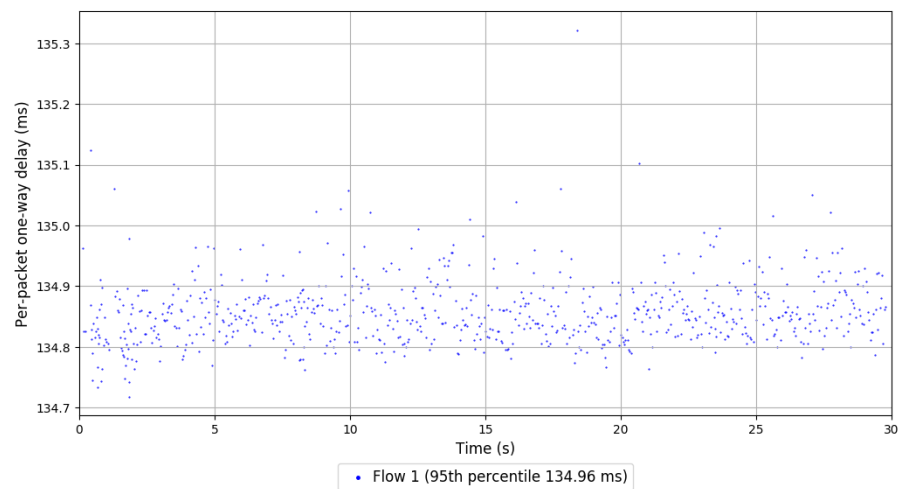
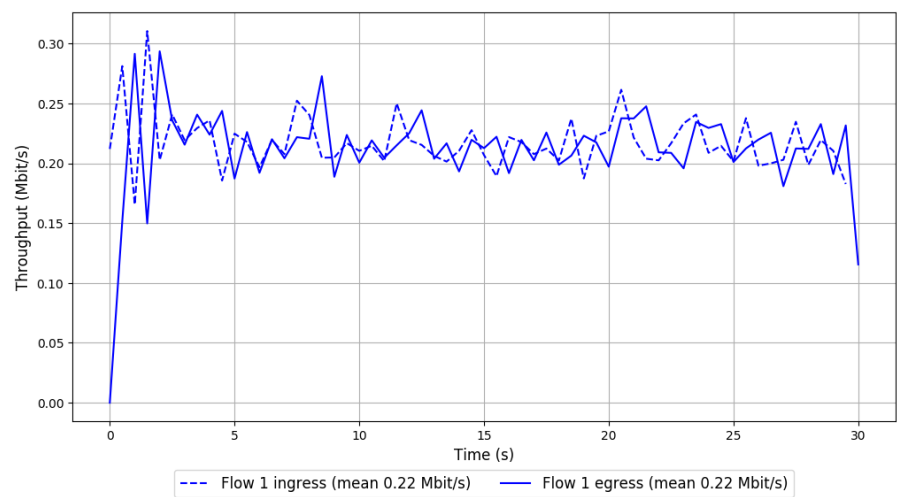
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 134.956 ms

Loss rate: 0.89%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-06-19 19:55:01

End at: 2018-06-19 19:55:31

Local clock offset: 0.244 ms

Remote clock offset: 0.32 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 0.89%

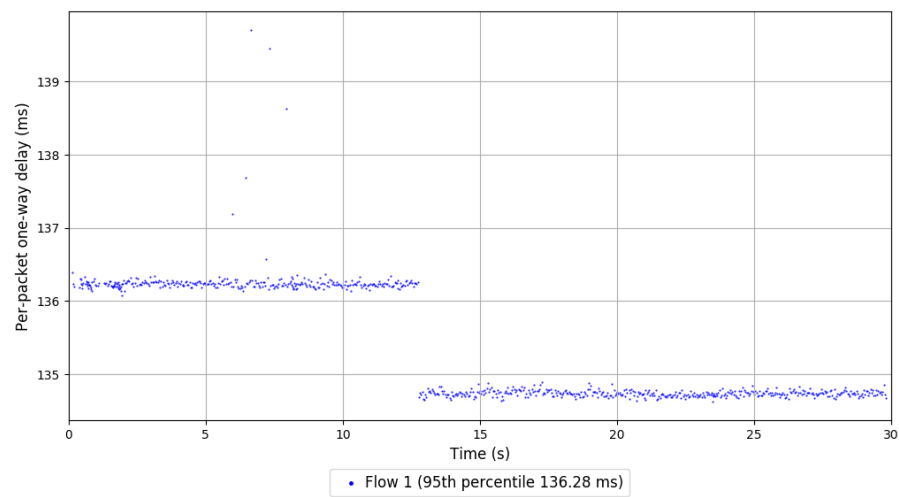
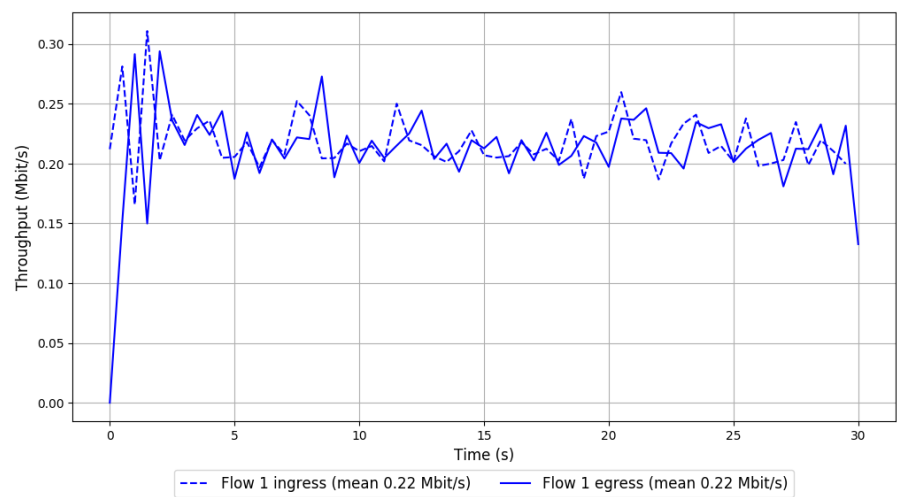
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.285 ms

Loss rate: 0.89%

Run 9: Report of SReAM — Data Link

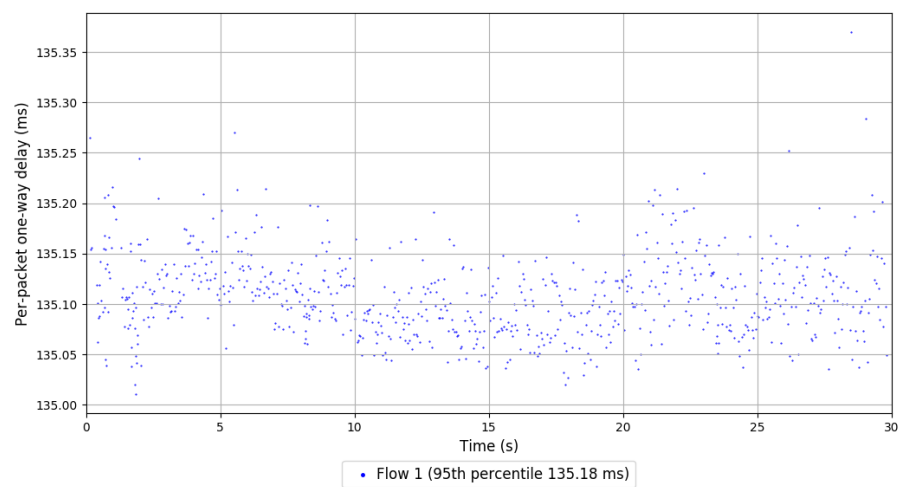
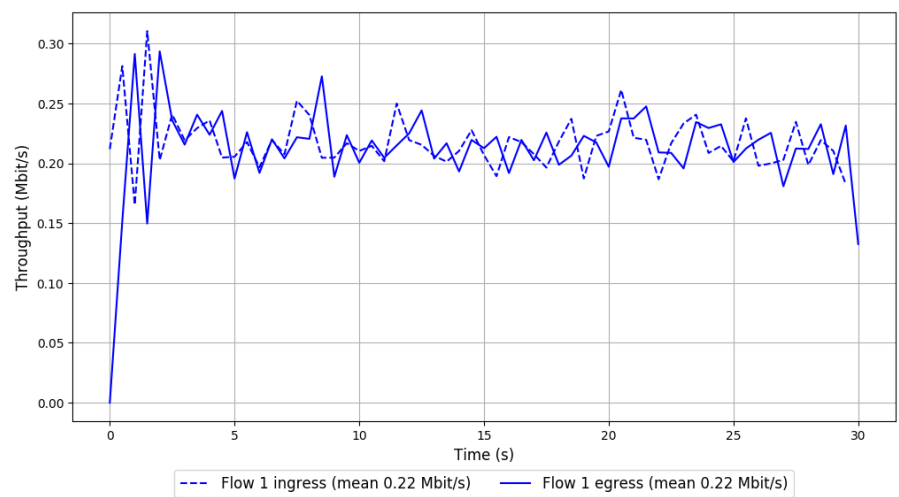


Run 10: Statistics of SCReAM

Start at: 2018-06-19 20:16:04
End at: 2018-06-19 20:16:34
Local clock offset: -0.062 ms
Remote clock offset: -0.414 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.184 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.184 ms
Loss rate: 0.76%

Run 10: Report of SCReAM — Data Link

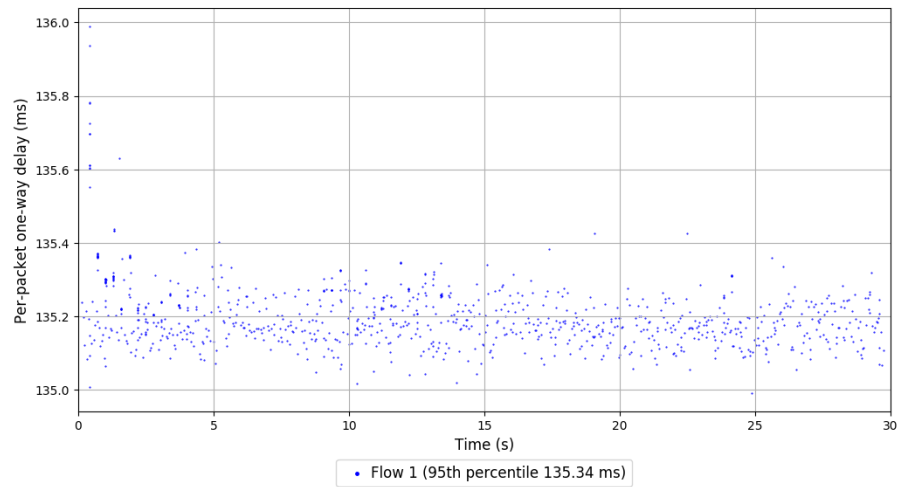
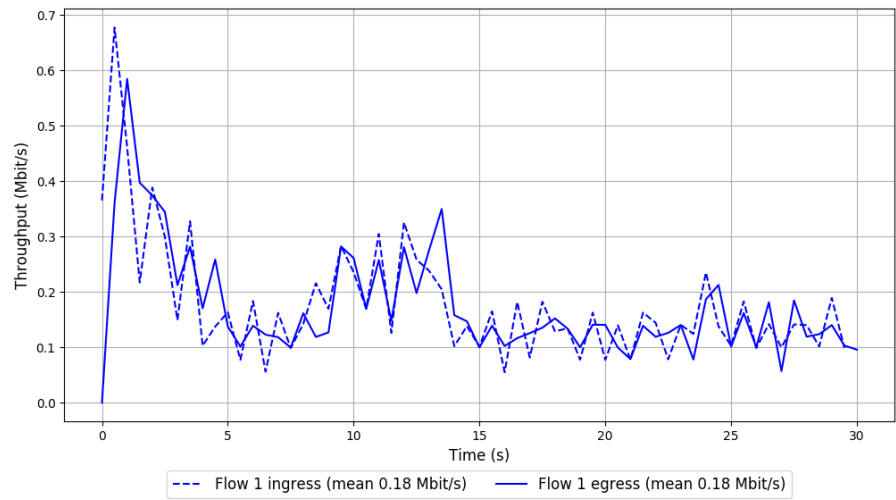


Run 1: Statistics of Sprout

Start at: 2018-06-19 17:18:29
End at: 2018-06-19 17:18:59
Local clock offset: 0.016 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.336 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 135.336 ms
Loss rate: 0.88%

Run 1: Report of Sprout — Data Link

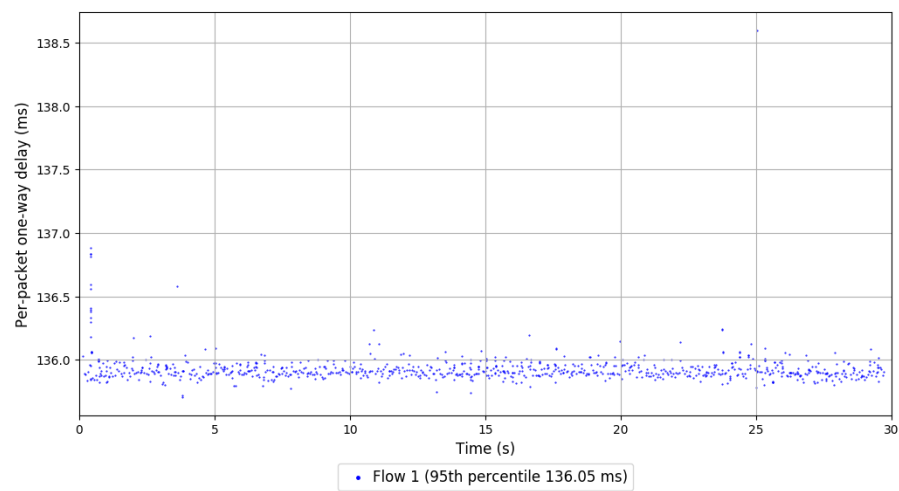
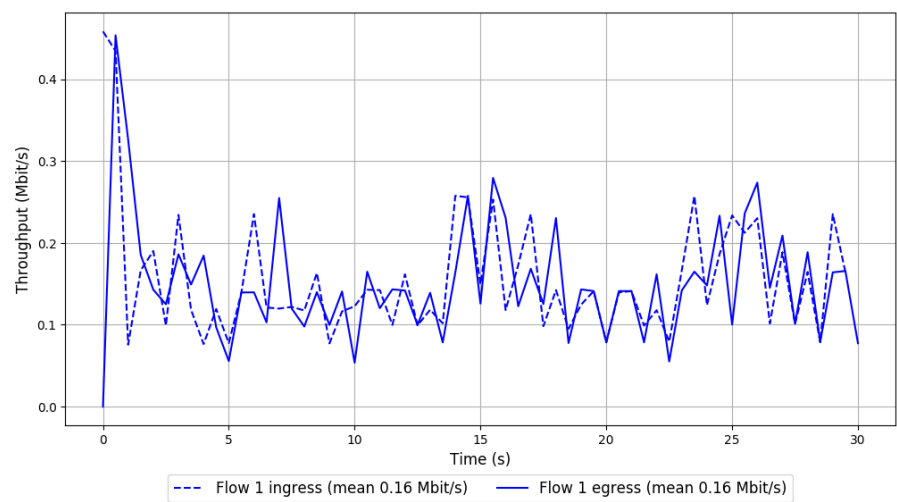


Run 2: Statistics of Sprout

Start at: 2018-06-19 17:39:31
End at: 2018-06-19 17:40:01
Local clock offset: -0.04 ms
Remote clock offset: -0.055 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.049 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.049 ms
Loss rate: 1.72%

Run 2: Report of Sprout — Data Link

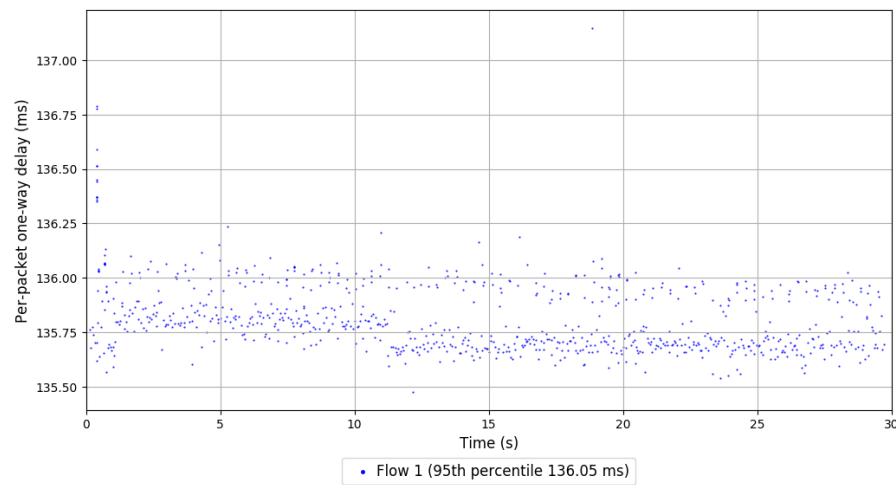
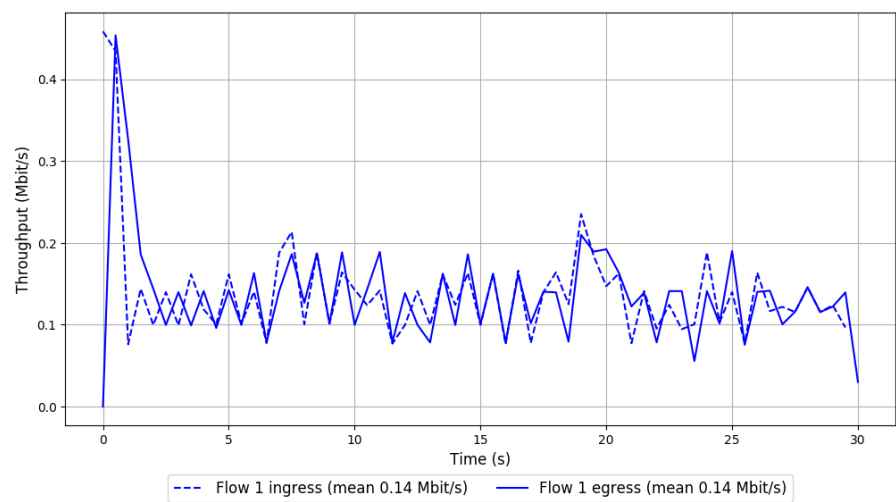


Run 3: Statistics of Sprout

Start at: 2018-06-19 18:00:42
End at: 2018-06-19 18:01:12
Local clock offset: 0.072 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.051 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 136.051 ms
Loss rate: 1.11%

Run 3: Report of Sprout — Data Link

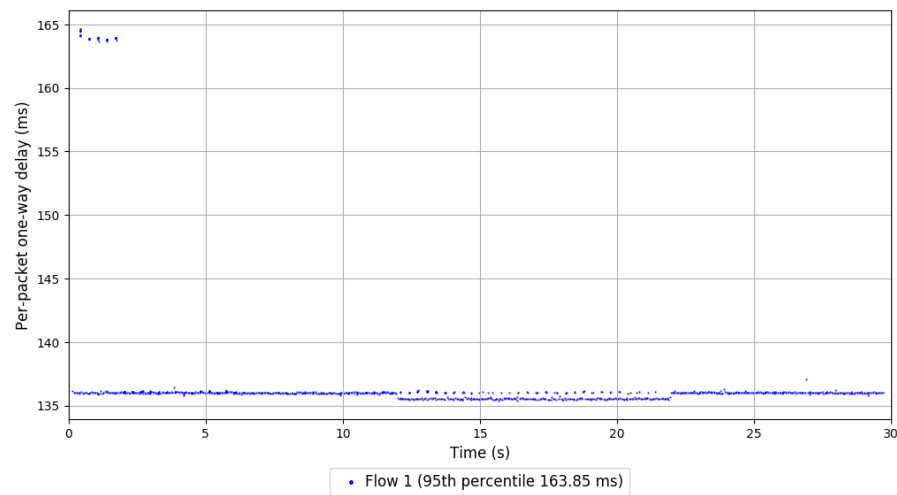
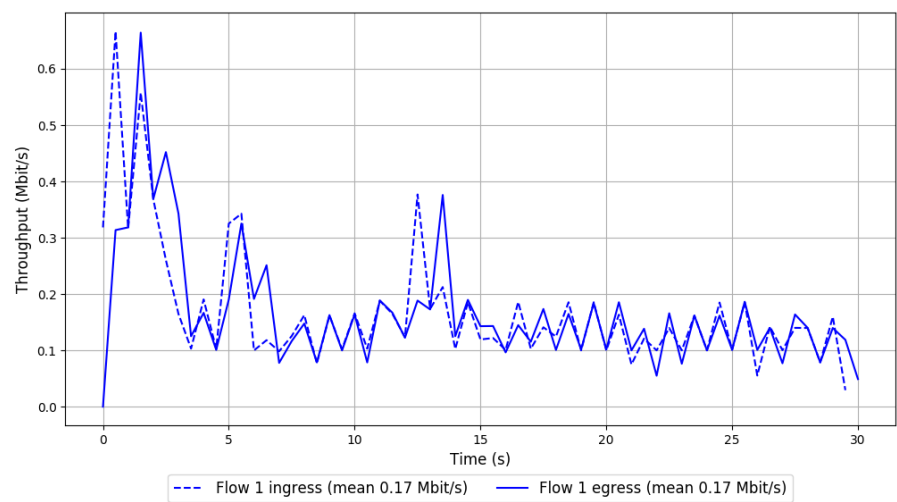


Run 4: Statistics of Sprout

Start at: 2018-06-19 18:21:22
End at: 2018-06-19 18:21:52
Local clock offset: 0.089 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 163.847 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 163.847 ms
Loss rate: 0.26%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 18:42:25

End at: 2018-06-19 18:42:55

Local clock offset: -0.079 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 1.07%

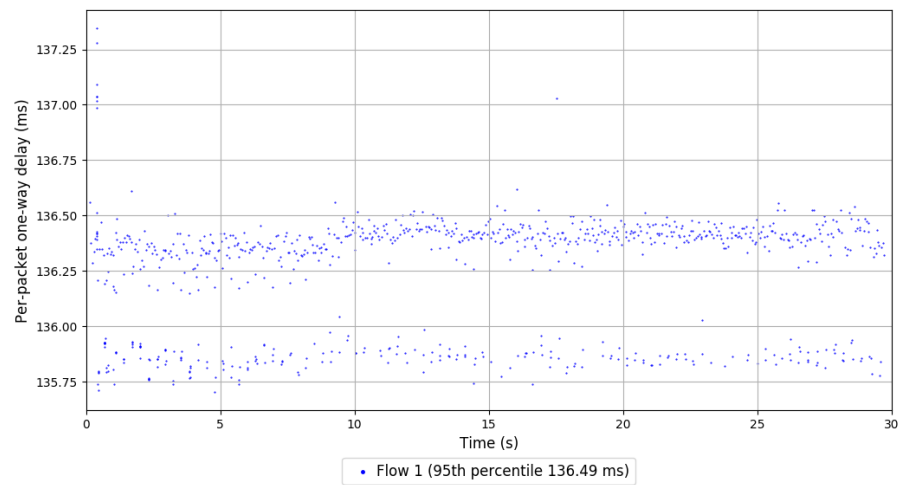
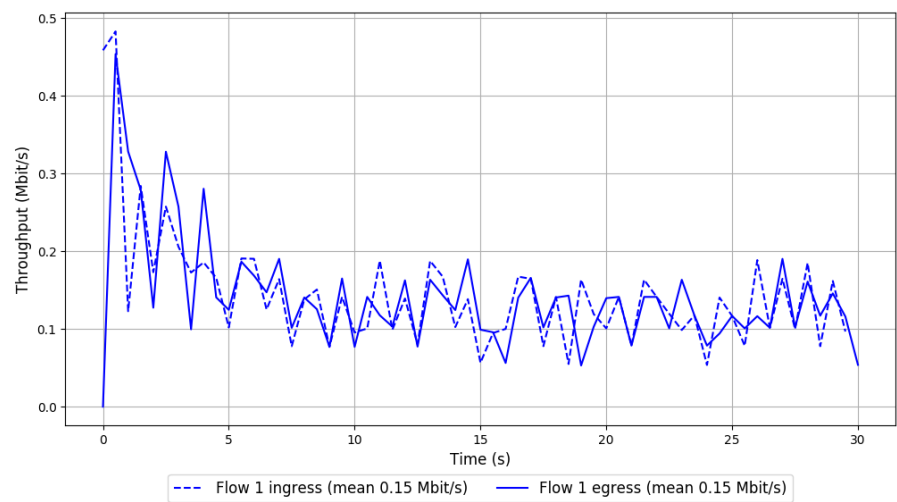
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.488 ms

Loss rate: 1.07%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-06-19 19:03:22

End at: 2018-06-19 19:03:52

Local clock offset: -0.123 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

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

Loss rate: 0.95%

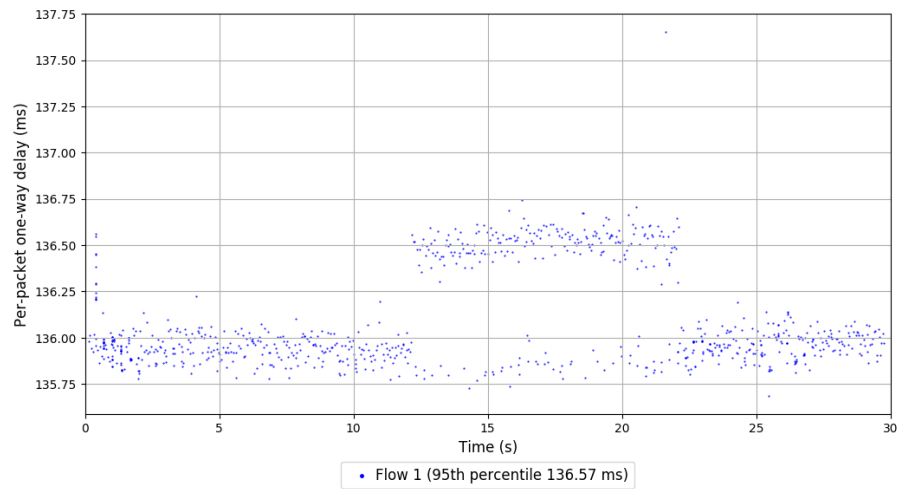
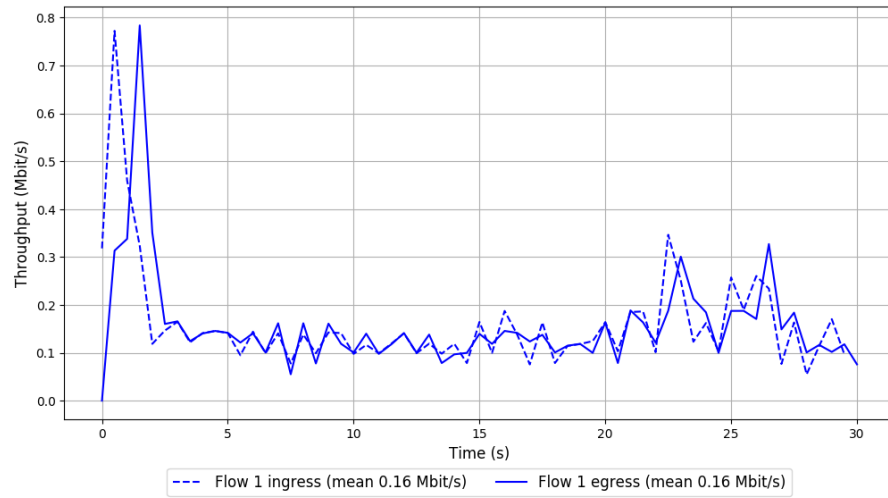
-- Flow 1:

Average throughput: 0.16 Mbit/s

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

Loss rate: 0.95%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-19 19:24:31

End at: 2018-06-19 19:25:01

Local clock offset: 0.084 ms

Remote clock offset: 0.082 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.604 ms

Loss rate: 0.30%

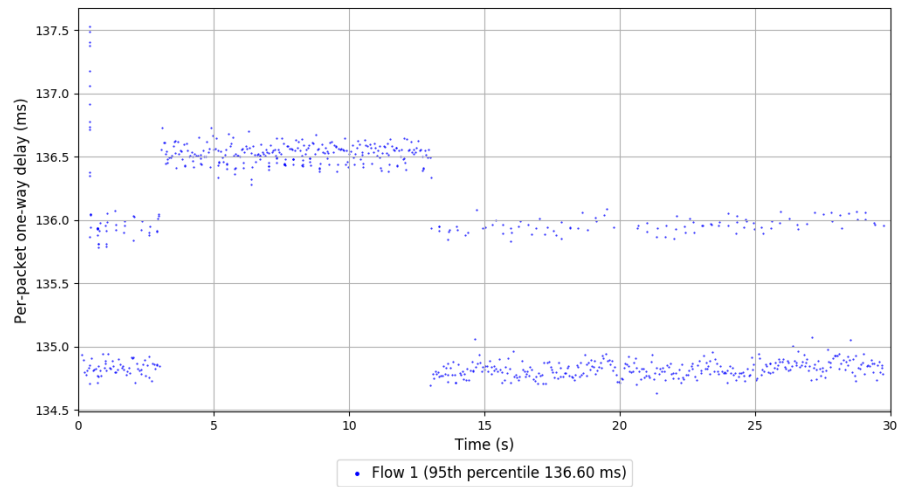
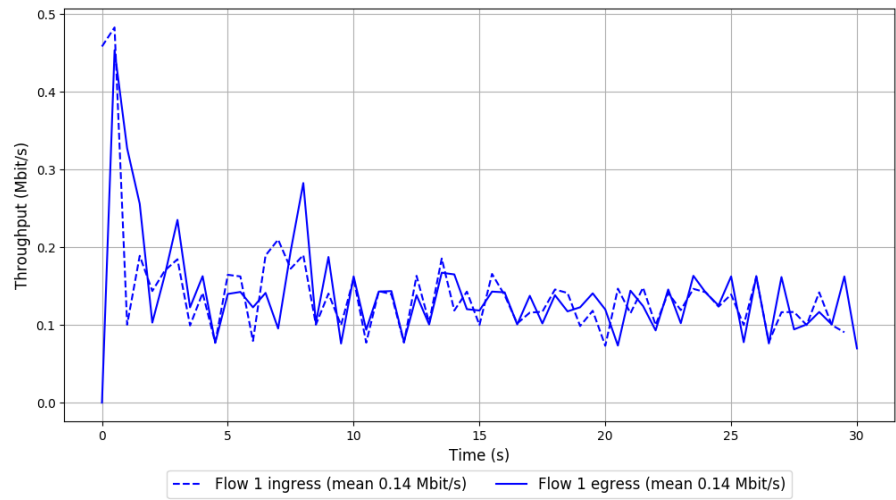
-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.604 ms

Loss rate: 0.30%

Run 7: Report of Sprout — Data Link

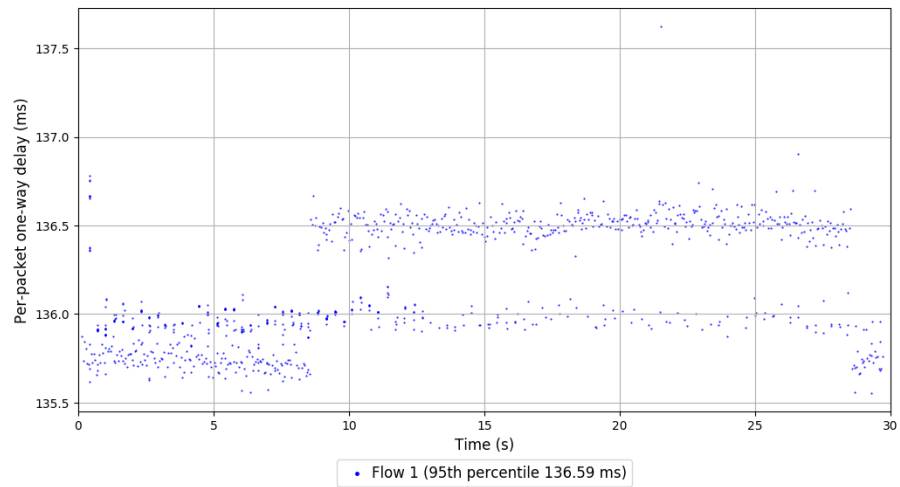
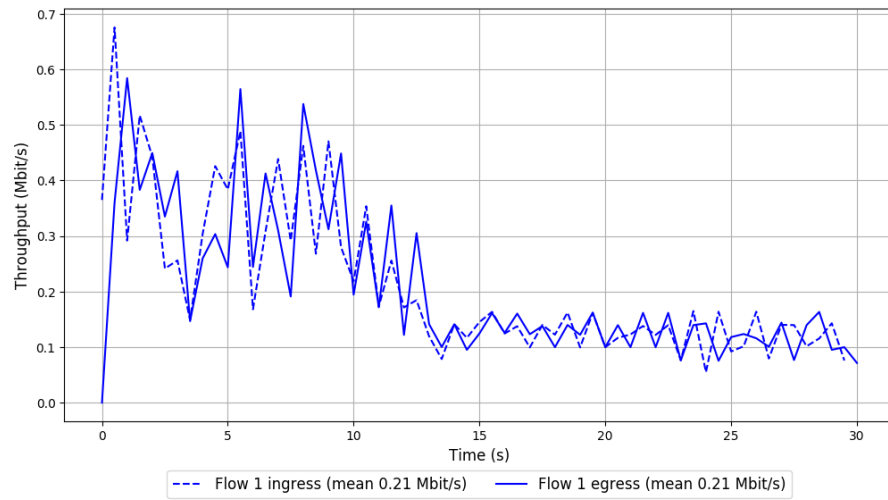


Run 8: Statistics of Sprout

Start at: 2018-06-19 19:46:15
End at: 2018-06-19 19:46:45
Local clock offset: 0.004 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.585 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.585 ms
Loss rate: 0.57%

Run 8: Report of Sprout — Data Link

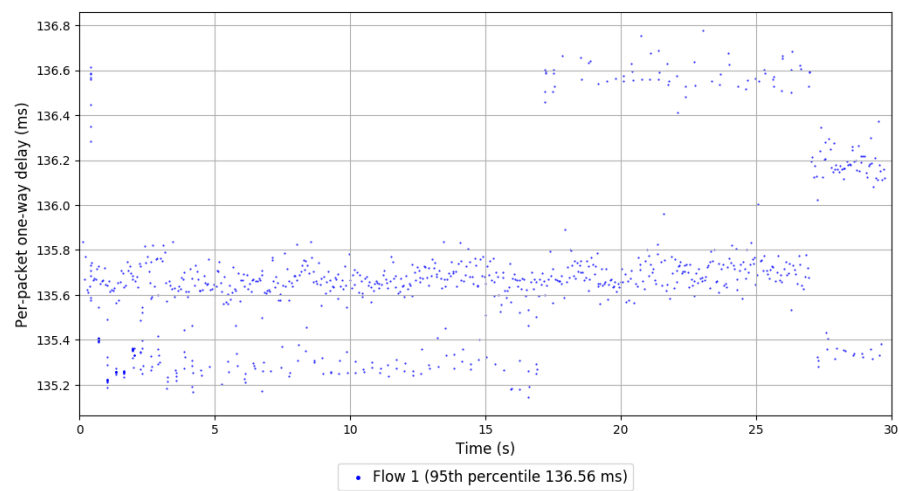
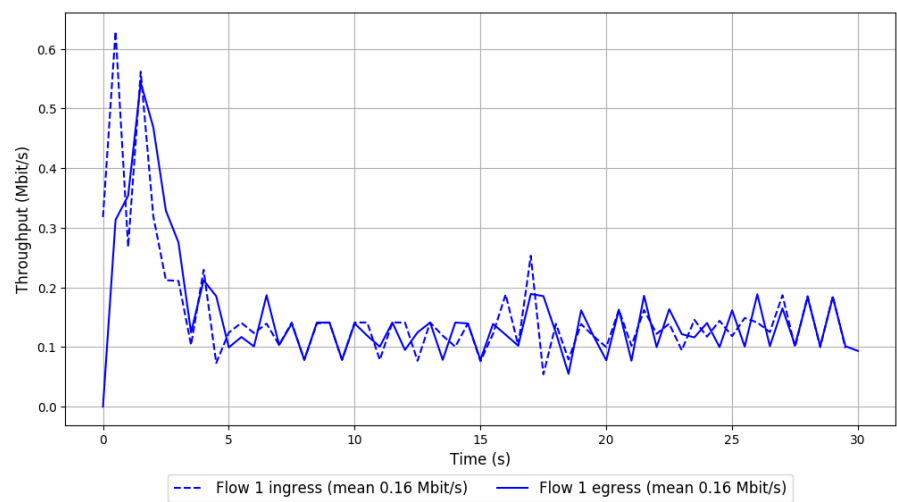


Run 9: Statistics of Sprout

Start at: 2018-06-19 20:07:37
End at: 2018-06-19 20:08:07
Local clock offset: 0.168 ms
Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.559 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.559 ms
Loss rate: 1.00%

Run 9: Report of Sprout — Data Link

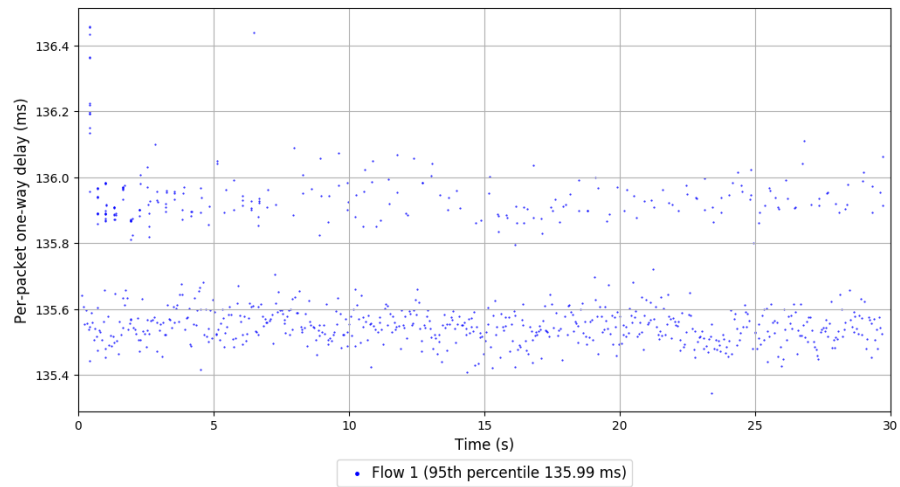
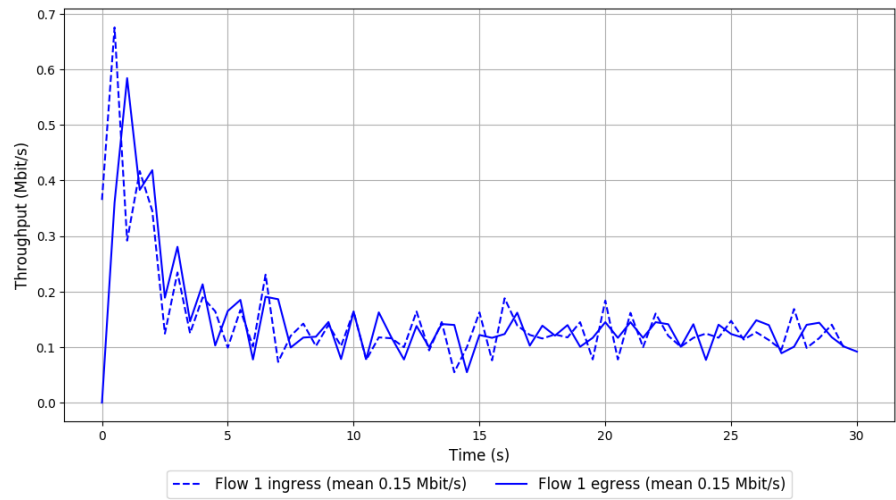


Run 10: Statistics of Sprout

Start at: 2018-06-19 20:28:41
End at: 2018-06-19 20:29:11
Local clock offset: -0.056 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.990 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 135.990 ms
Loss rate: 0.52%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 17:23:18

End at: 2018-06-19 17:23:48

Local clock offset: -0.214 ms

Remote clock offset: -0.032 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 136.081 ms

Loss rate: 0.90%

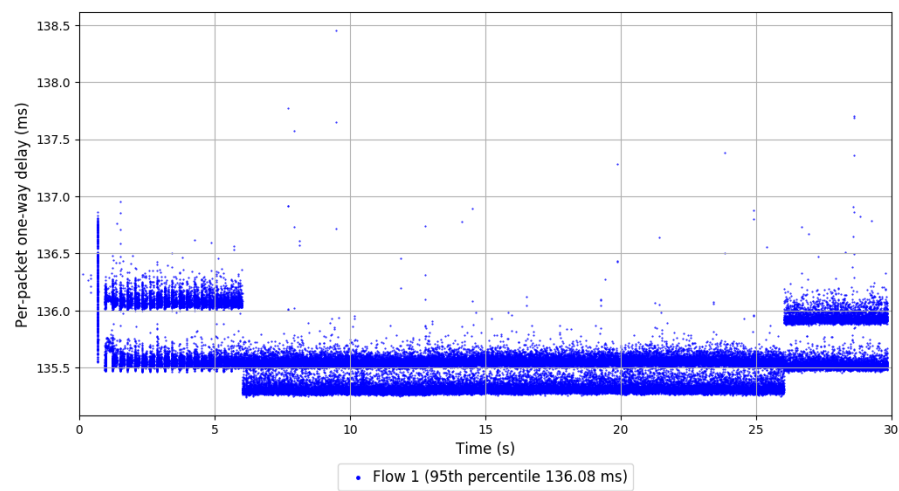
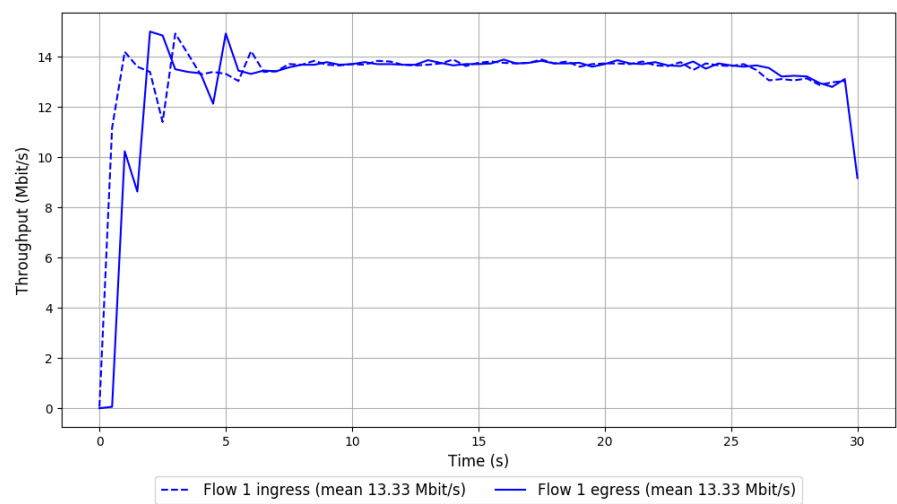
-- Flow 1:

Average throughput: 13.33 Mbit/s

95th percentile per-packet one-way delay: 136.081 ms

Loss rate: 0.90%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-06-19 17:44:14

End at: 2018-06-19 17:44:44

Local clock offset: -0.139 ms

Remote clock offset: 0.35 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 135.393 ms

Loss rate: 0.93%

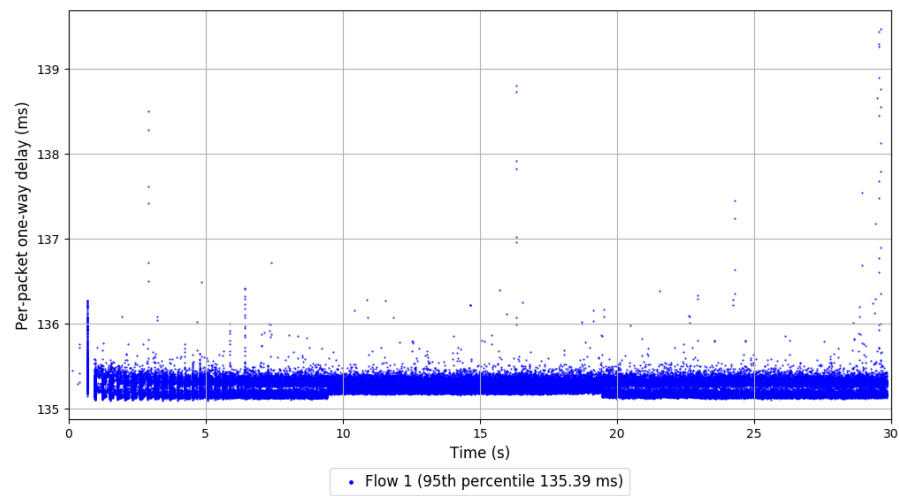
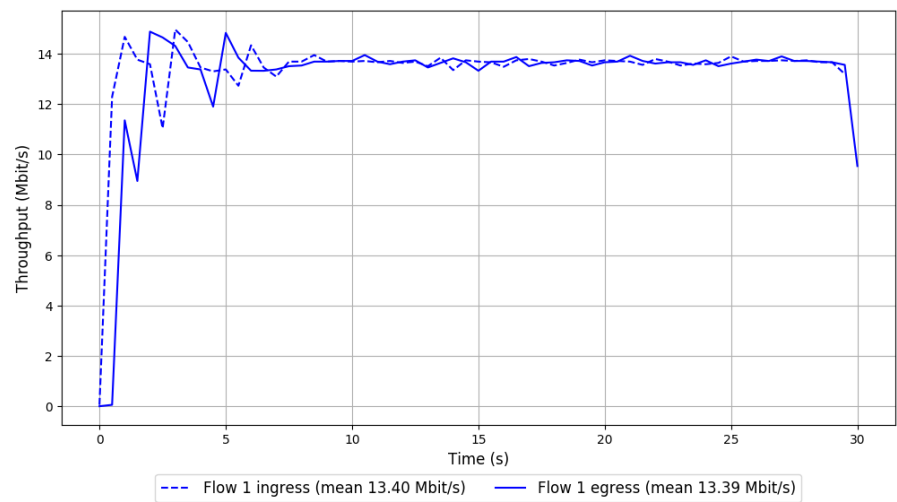
-- Flow 1:

Average throughput: 13.39 Mbit/s

95th percentile per-packet one-way delay: 135.393 ms

Loss rate: 0.93%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 18:05:27

End at: 2018-06-19 18:05:57

Local clock offset: 0.062 ms

Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.93%

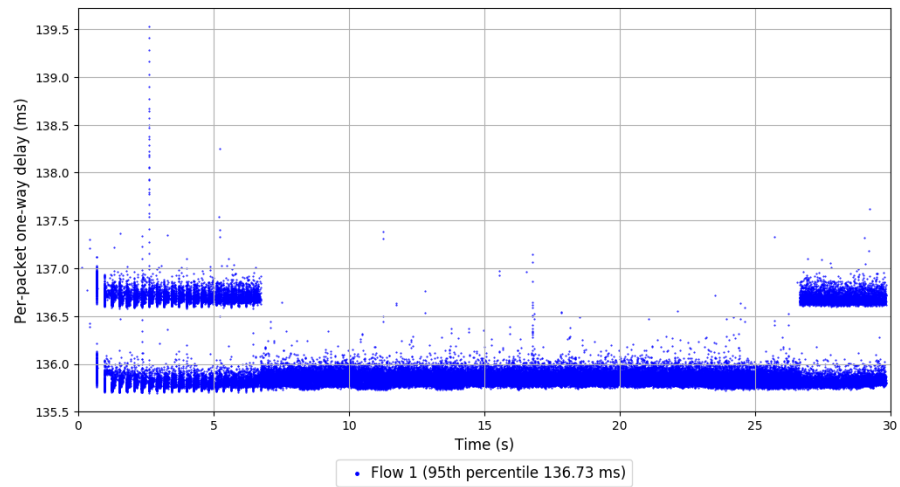
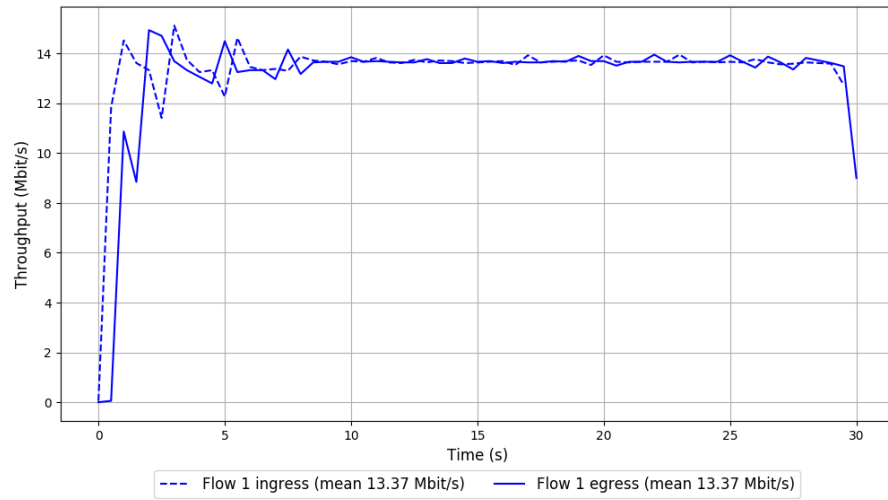
-- Flow 1:

Average throughput: 13.37 Mbit/s

95th percentile per-packet one-way delay: 136.728 ms

Loss rate: 0.93%

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

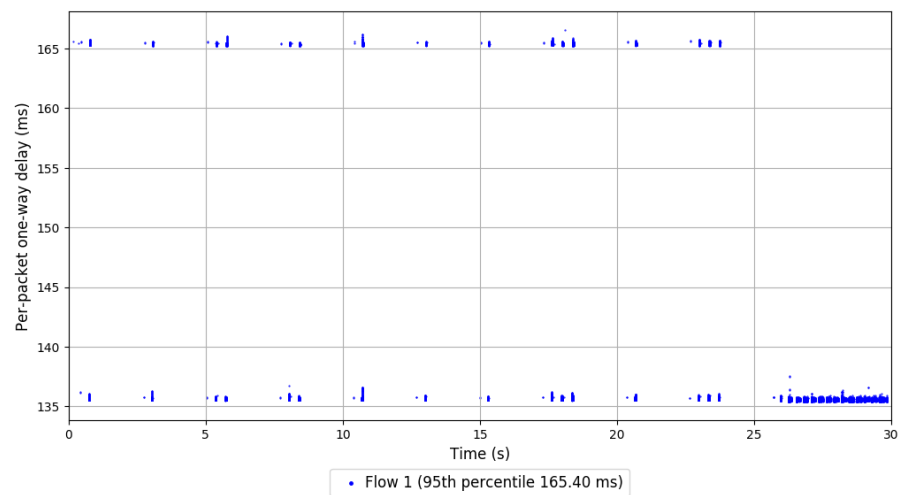
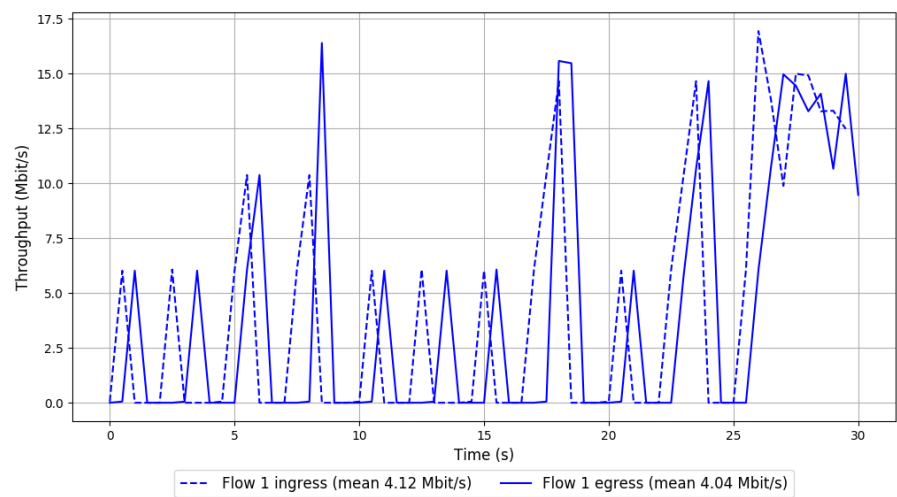


Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 18:26:09
End at: 2018-06-19 18:26:39
Local clock offset: -0.117 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 21:42:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 165.399 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 165.399 ms
Loss rate: 2.84%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 18:47:05

End at: 2018-06-19 18:47:35

Local clock offset: 0.035 ms

Remote clock offset: 0.135 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 135.811 ms

Loss rate: 0.93%

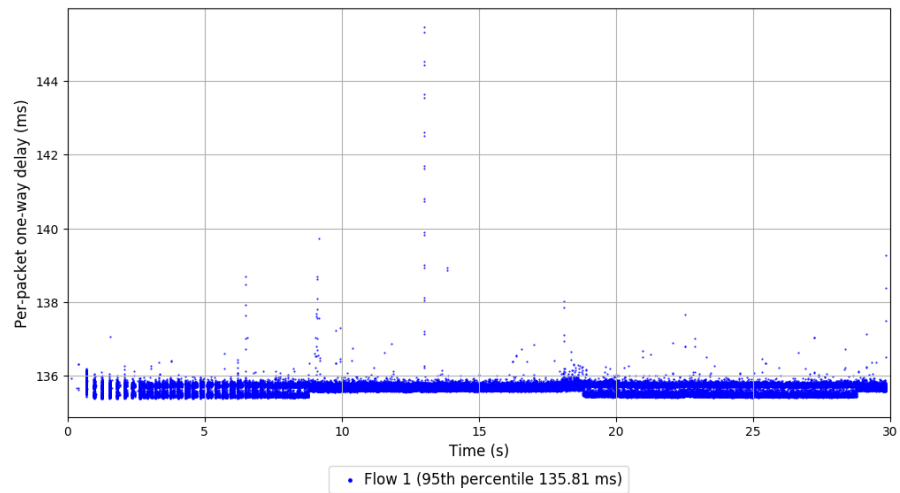
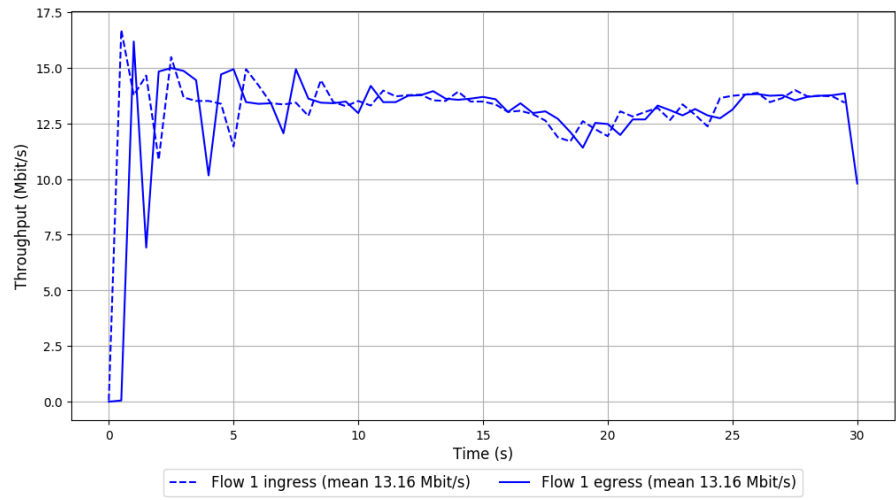
-- Flow 1:

Average throughput: 13.16 Mbit/s

95th percentile per-packet one-way delay: 135.811 ms

Loss rate: 0.93%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 19:08:02

End at: 2018-06-19 19:08:32

Local clock offset: 0.03 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-06-19 21:42:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 136.264 ms

Loss rate: 0.93%

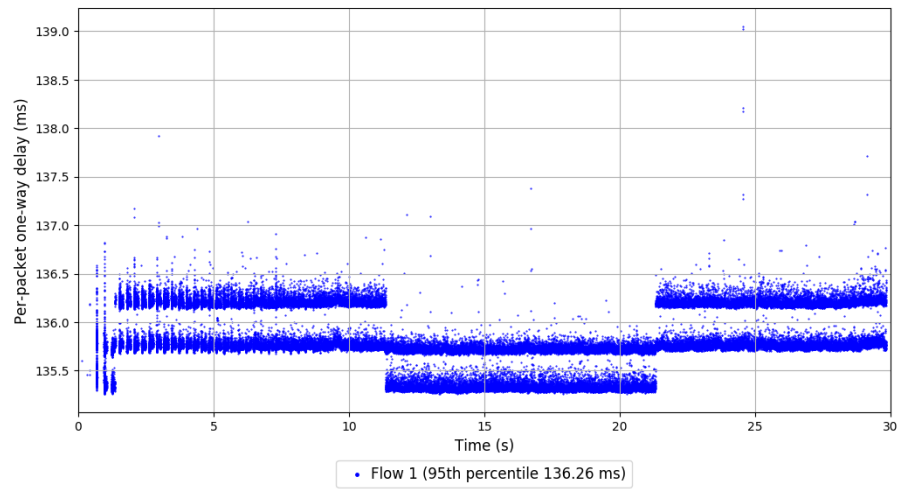
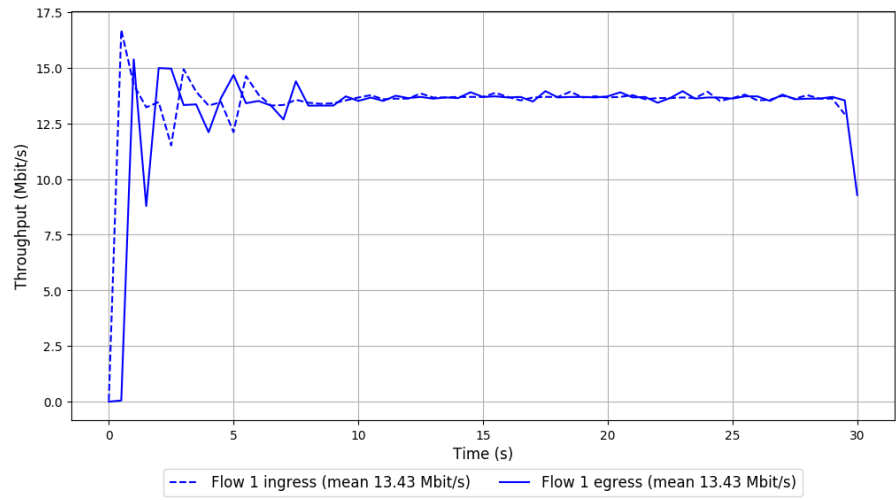
-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 136.264 ms

Loss rate: 0.93%

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

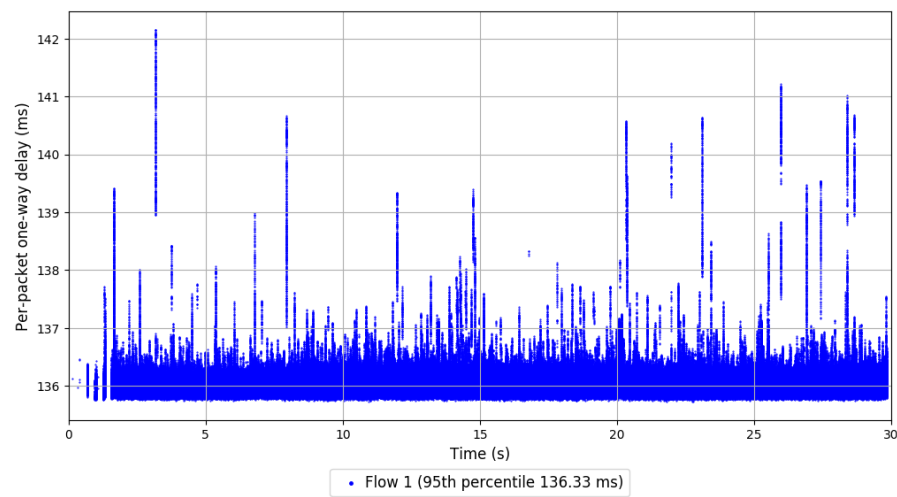
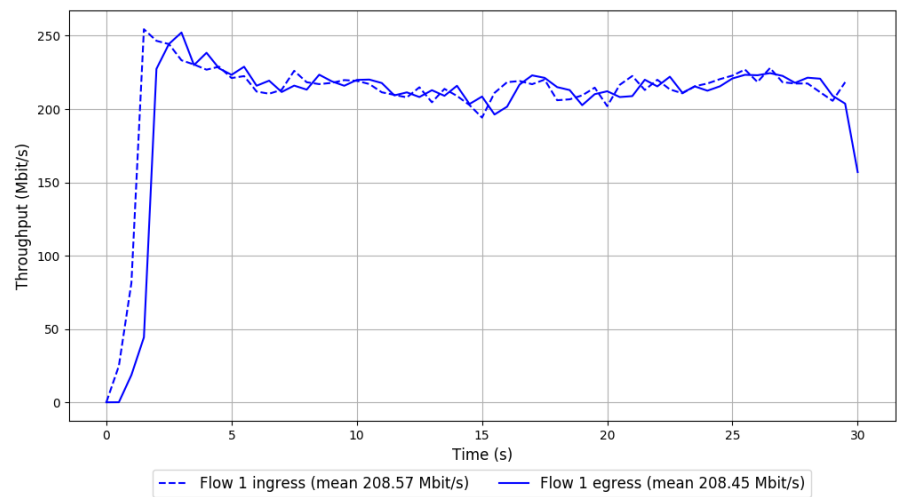


Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 19:29:16
End at: 2018-06-19 19:29:46
Local clock offset: 0.02 ms
Remote clock offset: -0.292 ms

Below is generated by plot.py at 2018-06-19 21:43:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 208.45 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 208.45 Mbit/s
95th percentile per-packet one-way delay: 136.333 ms
Loss rate: 0.97%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 19:51:03

End at: 2018-06-19 19:51:33

Local clock offset: 0.07 ms

Remote clock offset: -0.056 ms

Below is generated by plot.py at 2018-06-19 21:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 192.34 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 1.07%

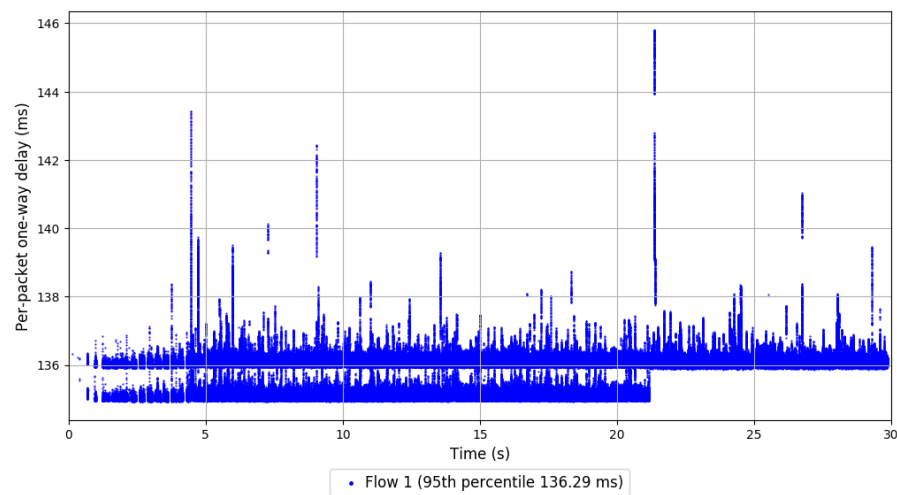
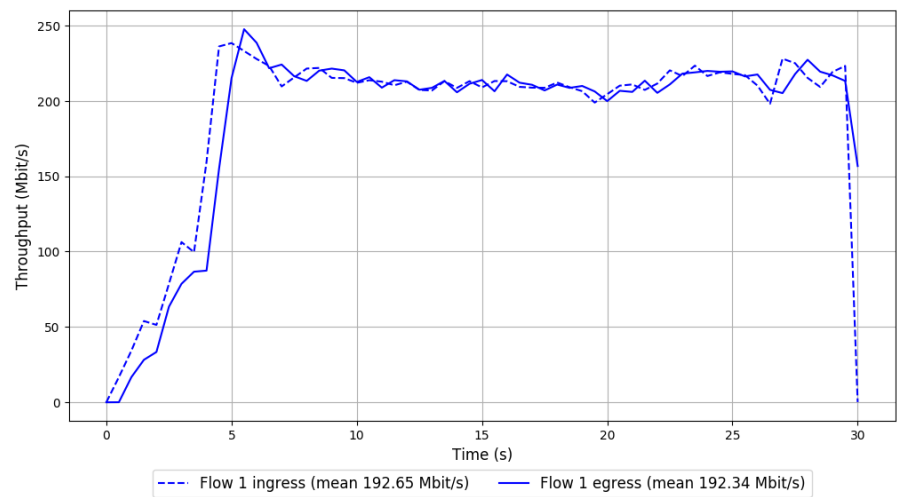
-- Flow 1:

Average throughput: 192.34 Mbit/s

95th percentile per-packet one-way delay: 136.286 ms

Loss rate: 1.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 20:12:24

End at: 2018-06-19 20:12:54

Local clock offset: 0.201 ms

Remote clock offset: -0.451 ms

Below is generated by plot.py at 2018-06-19 21:43:08

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 136.950 ms

Loss rate: 0.86%

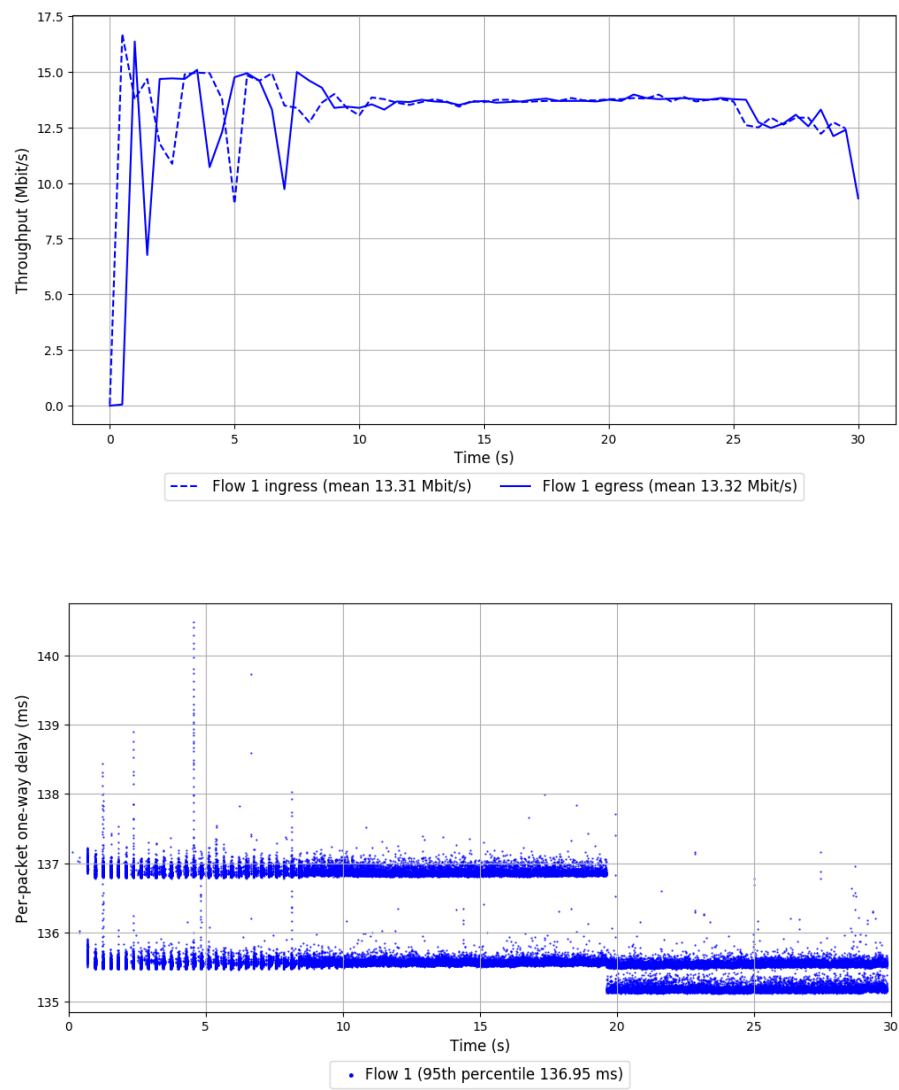
-- Flow 1:

Average throughput: 13.32 Mbit/s

95th percentile per-packet one-way delay: 136.950 ms

Loss rate: 0.86%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 20:33:22

End at: 2018-06-19 20:33:52

Local clock offset: -0.076 ms

Remote clock offset: 0.394 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 208.90 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 0.86%

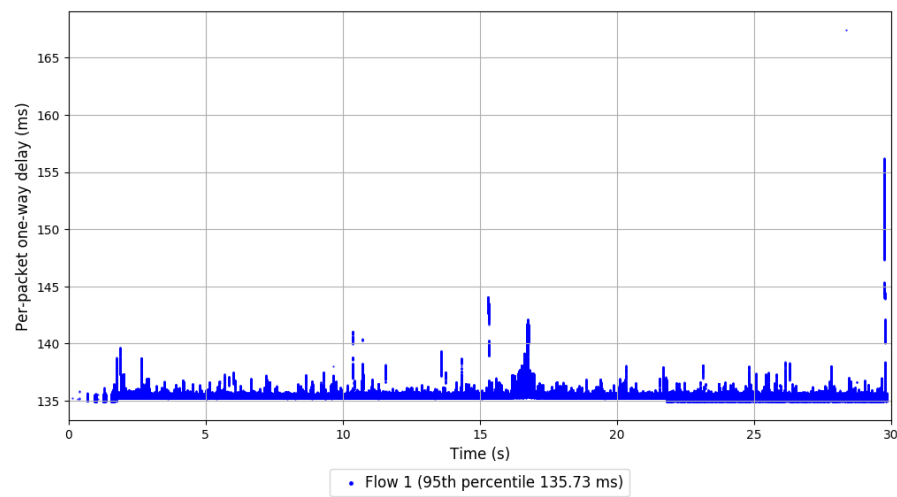
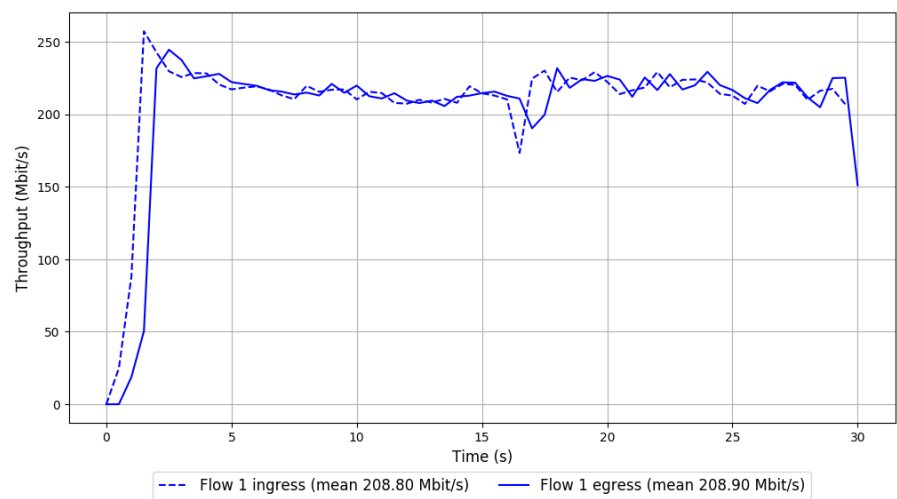
-- Flow 1:

Average throughput: 208.90 Mbit/s

95th percentile per-packet one-way delay: 135.732 ms

Loss rate: 0.86%

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

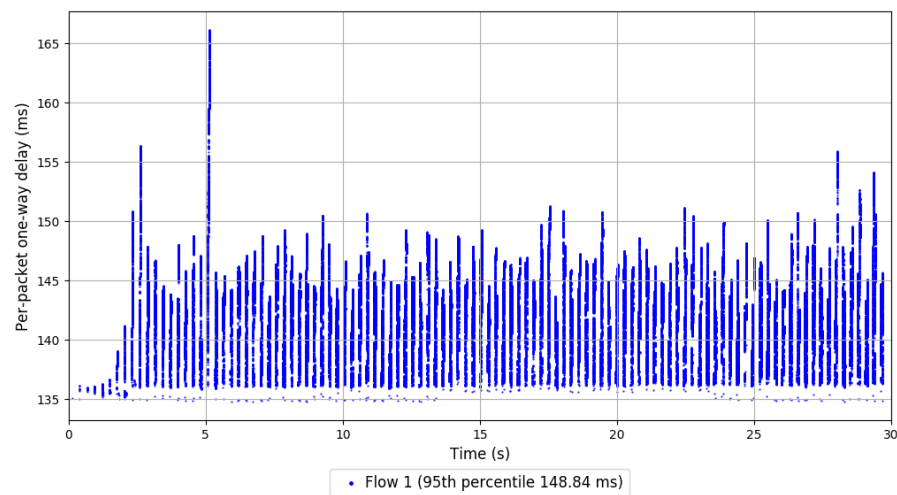
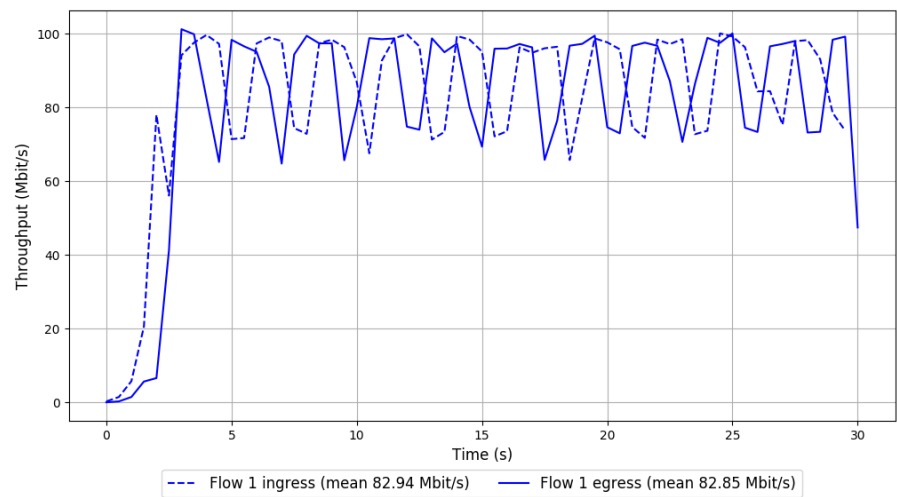


Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 17:20:50
End at: 2018-06-19 17:21:20
Local clock offset: 0.108 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-06-19 21:43:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 148.839 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 148.839 ms
Loss rate: 1.01%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 17:41:47

End at: 2018-06-19 17:42:17

Local clock offset: 0.009 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 147.413 ms

Loss rate: 0.93%

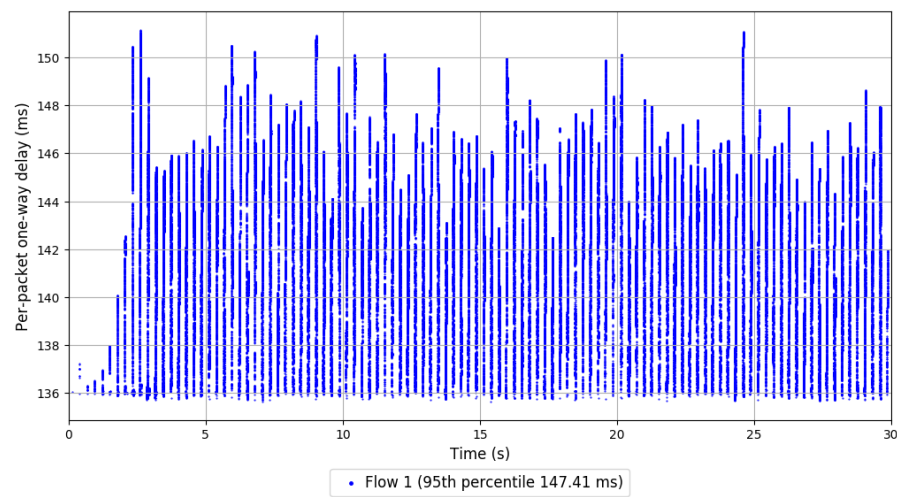
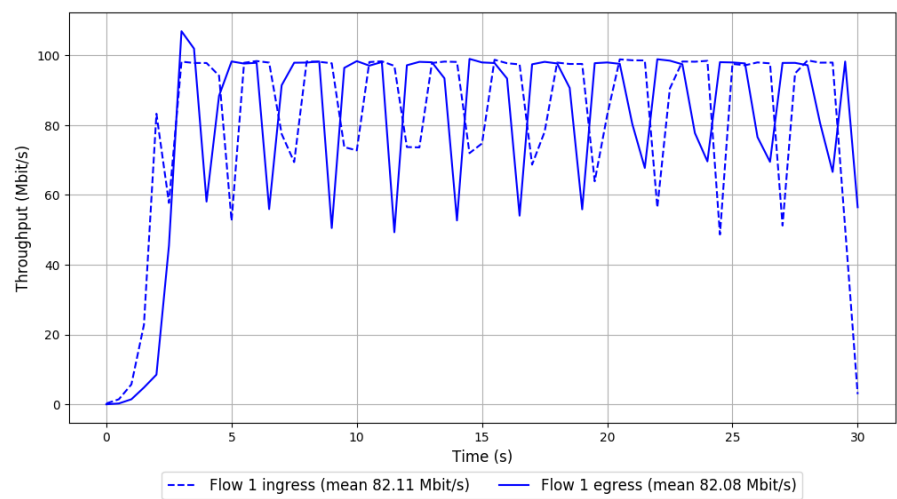
-- Flow 1:

Average throughput: 82.08 Mbit/s

95th percentile per-packet one-way delay: 147.413 ms

Loss rate: 0.93%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 18:03:03

End at: 2018-06-19 18:03:33

Local clock offset: -0.037 ms

Remote clock offset: 0.324 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 137.896 ms

Loss rate: 1.01%

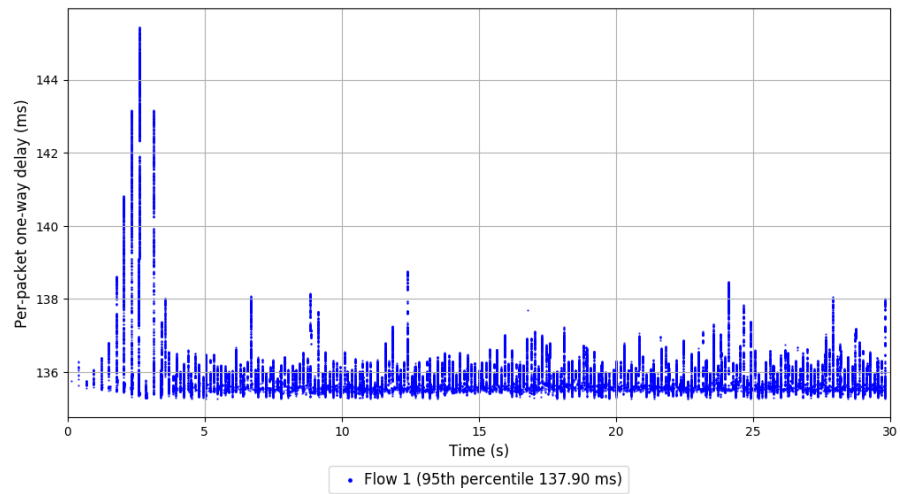
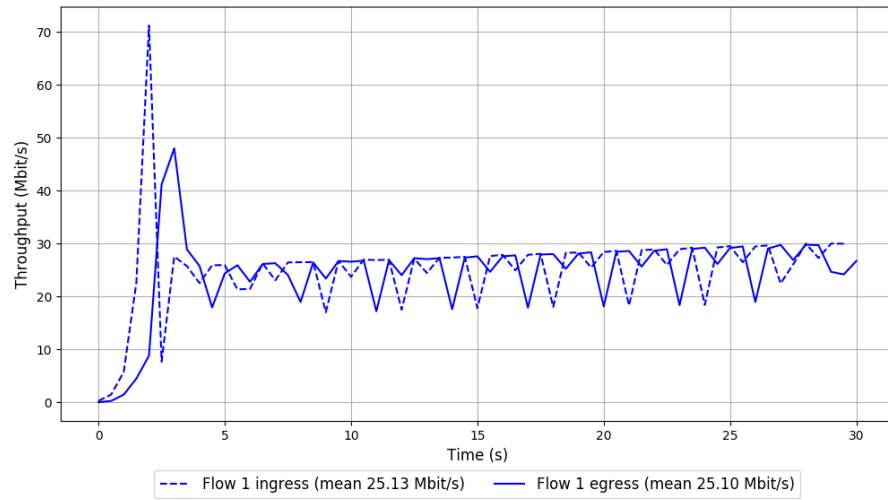
-- Flow 1:

Average throughput: 25.10 Mbit/s

95th percentile per-packet one-way delay: 137.896 ms

Loss rate: 1.01%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 18:23:42

End at: 2018-06-19 18:24:12

Local clock offset: 0.103 ms

Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 138.061 ms

Loss rate: 1.00%

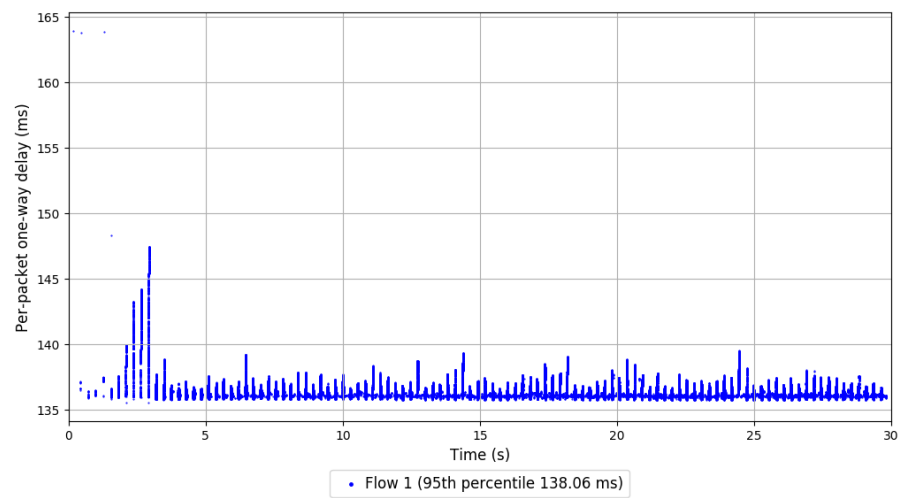
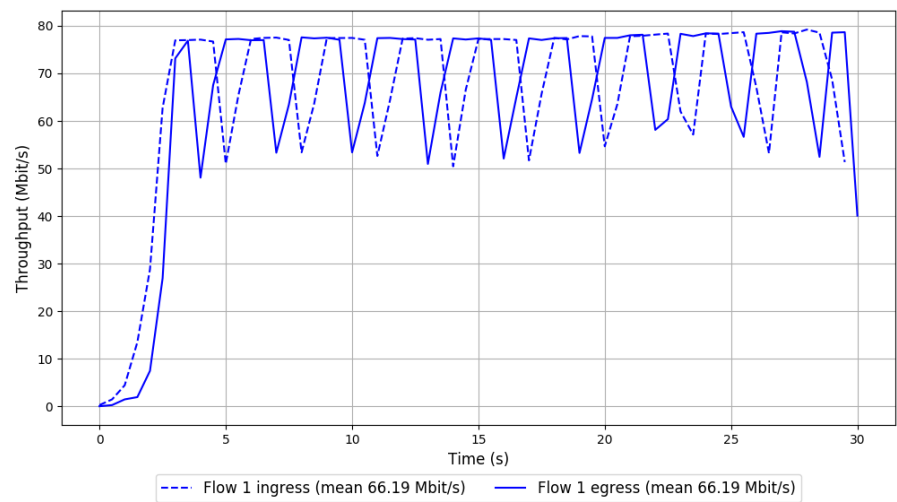
-- Flow 1:

Average throughput: 66.19 Mbit/s

95th percentile per-packet one-way delay: 138.061 ms

Loss rate: 1.00%

Run 4: Report of TCP Vegas — Data Link

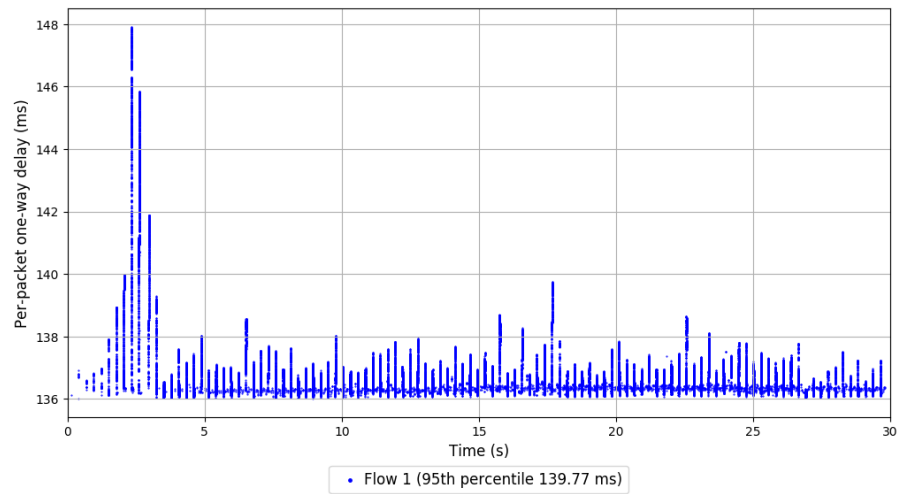
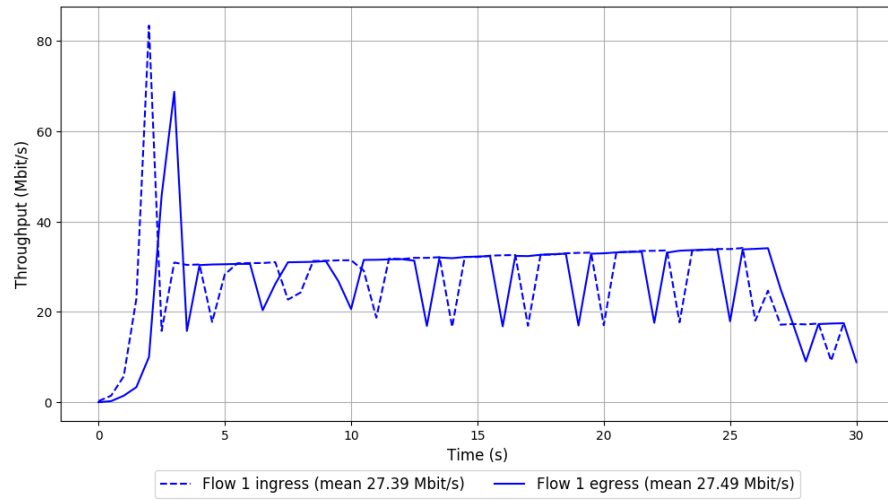


Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 18:44:41
End at: 2018-06-19 18:45:11
Local clock offset: -0.006 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-06-19 21:43:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 27.49 Mbit/s
95th percentile per-packet one-way delay: 139.772 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 27.49 Mbit/s
95th percentile per-packet one-way delay: 139.772 ms
Loss rate: 0.54%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 19:05:38

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

Local clock offset: 0.126 ms

Remote clock offset: -0.281 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 138.467 ms

Loss rate: 0.97%

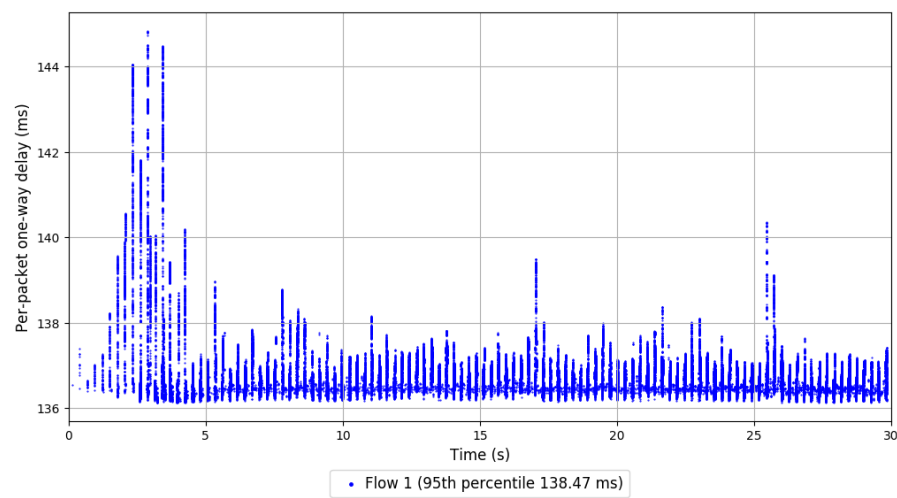
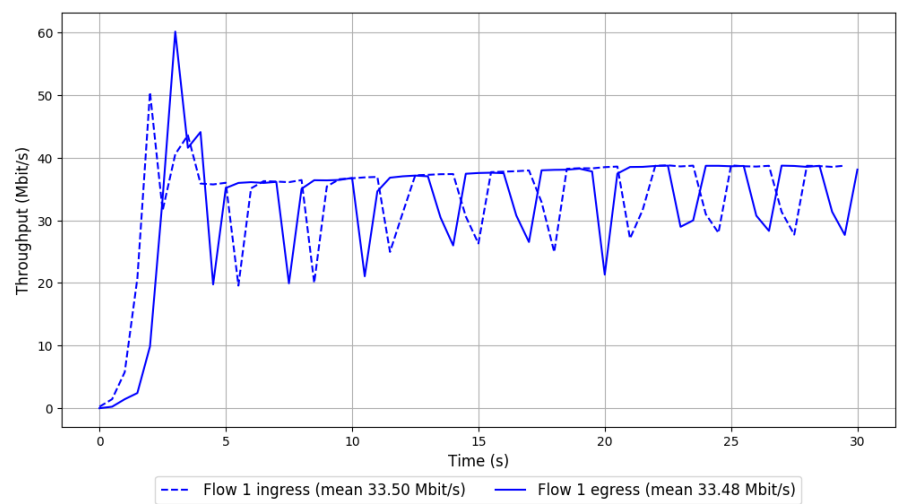
-- Flow 1:

Average throughput: 33.48 Mbit/s

95th percentile per-packet one-way delay: 138.467 ms

Loss rate: 0.97%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 19:26:51

End at: 2018-06-19 19:27:21

Local clock offset: 0.202 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 139.146 ms

Loss rate: 0.99%

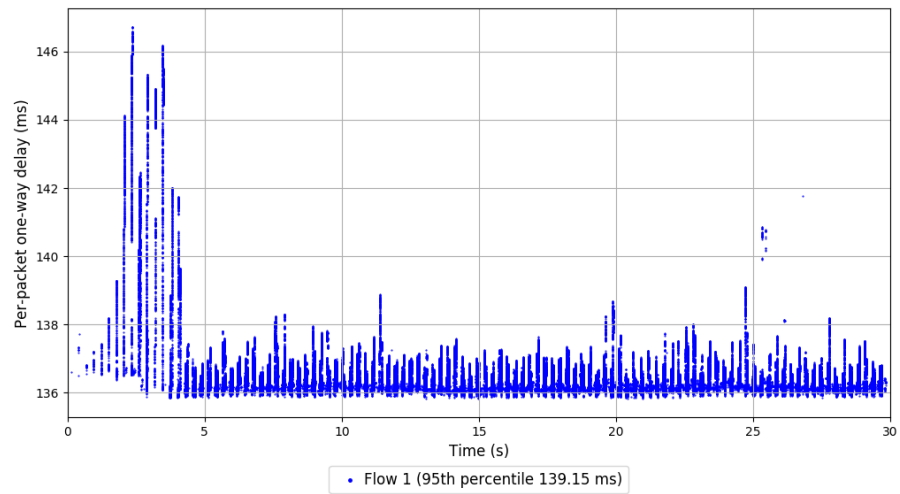
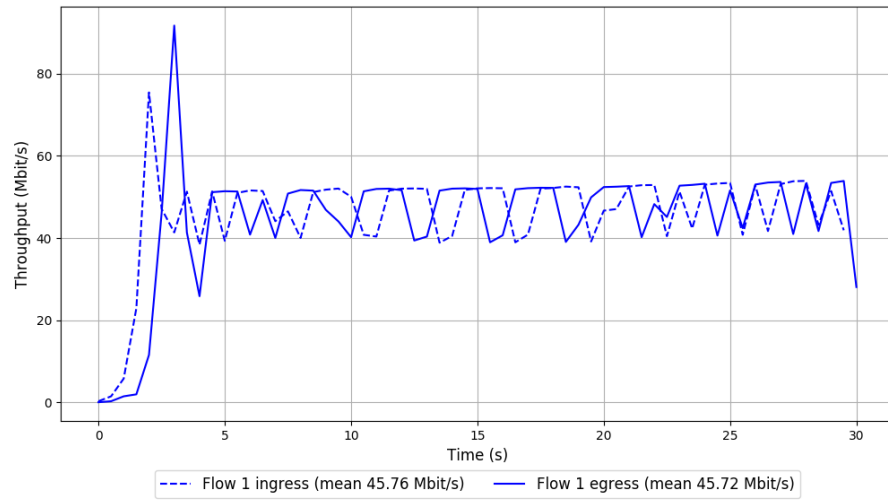
-- Flow 1:

Average throughput: 45.72 Mbit/s

95th percentile per-packet one-way delay: 139.146 ms

Loss rate: 0.99%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 19:48:36

End at: 2018-06-19 19:49:06

Local clock offset: 0.051 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 145.539 ms

Loss rate: 0.98%

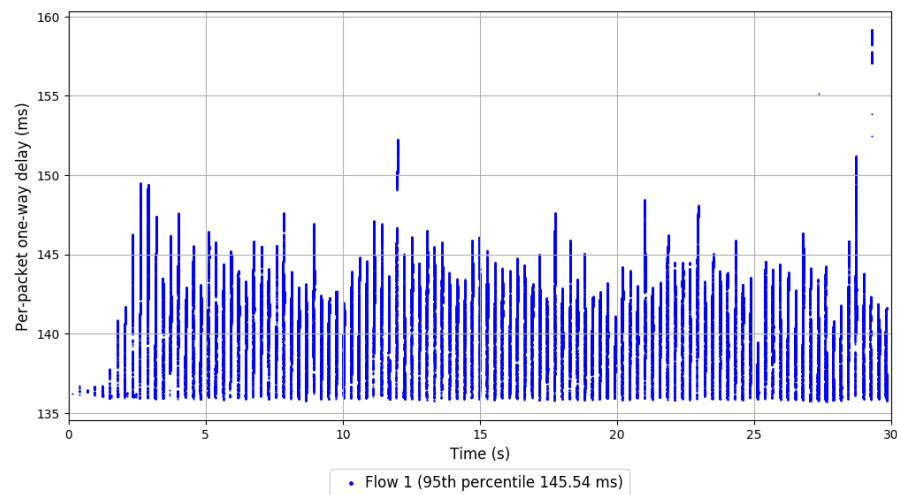
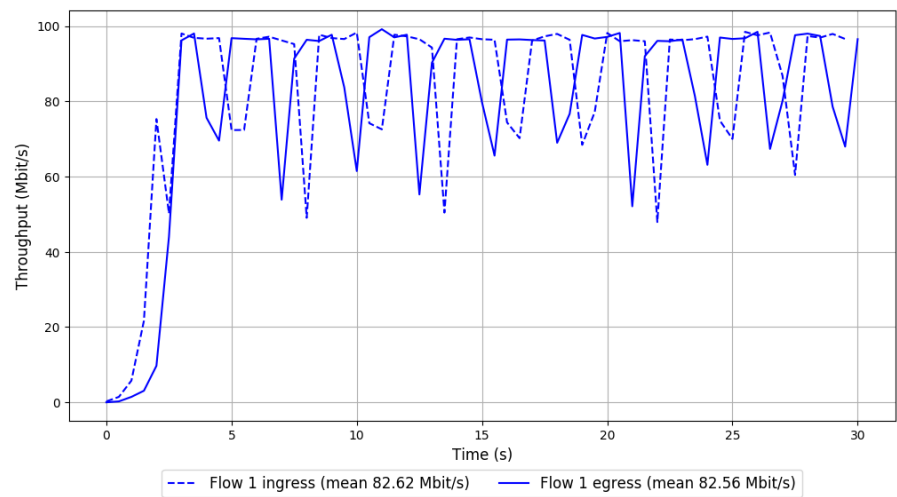
-- Flow 1:

Average throughput: 82.56 Mbit/s

95th percentile per-packet one-way delay: 145.539 ms

Loss rate: 0.98%

Run 8: Report of TCP Vegas — Data Link

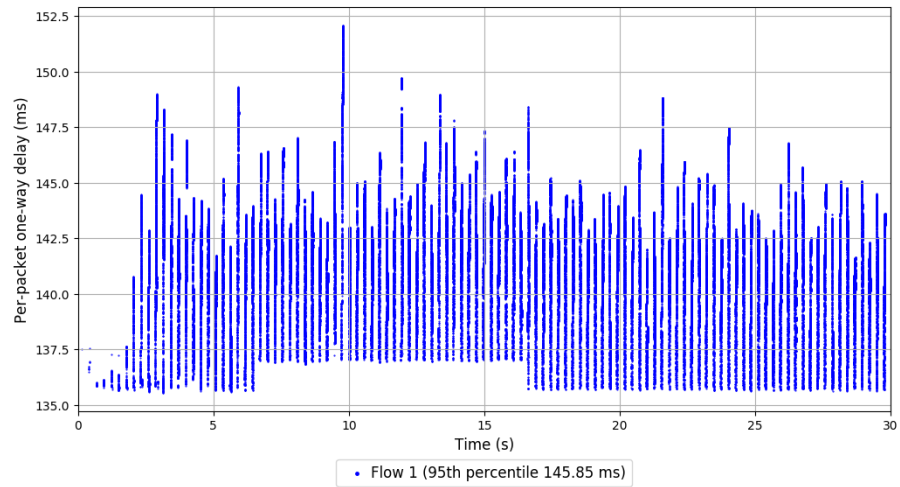
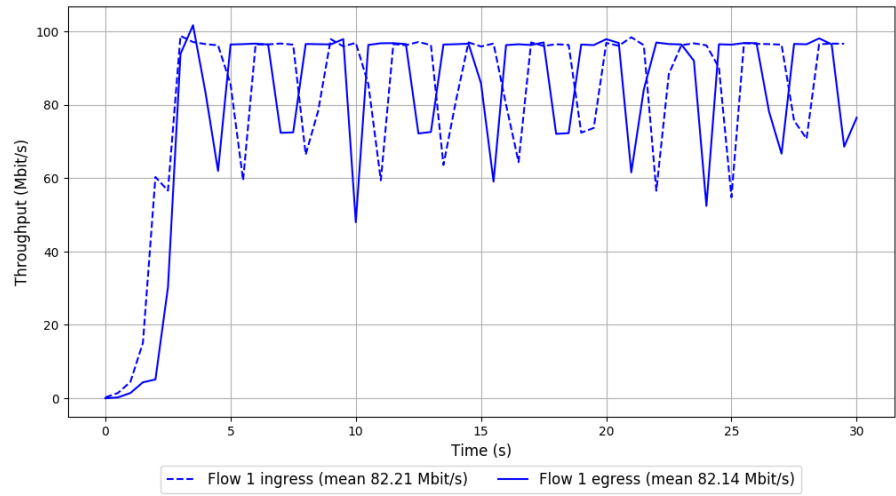


Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 20:09:57
End at: 2018-06-19 20:10:27
Local clock offset: 0.264 ms
Remote clock offset: -0.454 ms

Below is generated by plot.py at 2018-06-19 21:43:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 145.847 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 82.14 Mbit/s
95th percentile per-packet one-way delay: 145.847 ms
Loss rate: 0.98%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 20:30:57

End at: 2018-06-19 20:31:27

Local clock offset: 0.054 ms

Remote clock offset: -0.345 ms

Below is generated by plot.py at 2018-06-19 21:43:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 146.305 ms

Loss rate: 0.80%

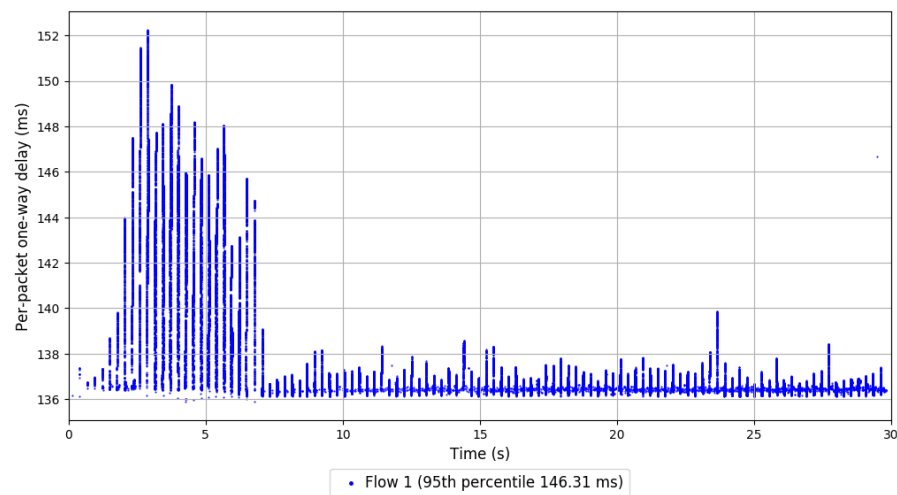
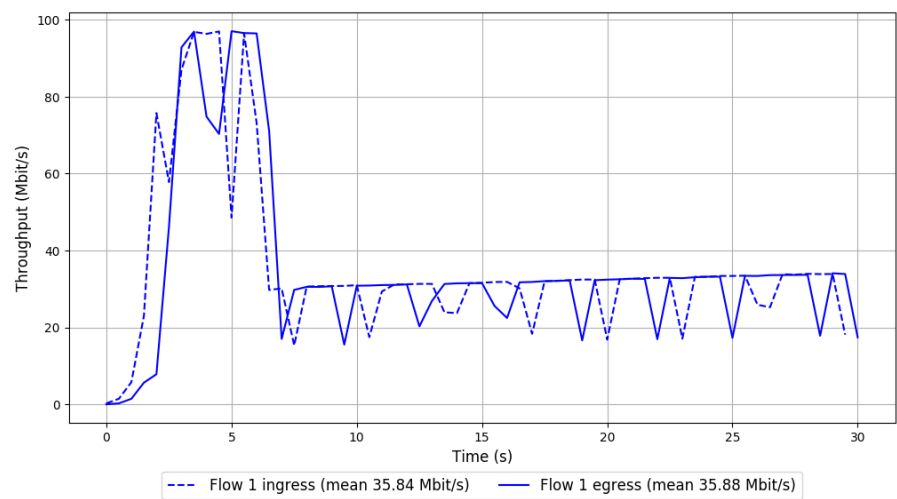
-- Flow 1:

Average throughput: 35.88 Mbit/s

95th percentile per-packet one-way delay: 146.305 ms

Loss rate: 0.80%

Run 10: Report of TCP Vegas — Data Link

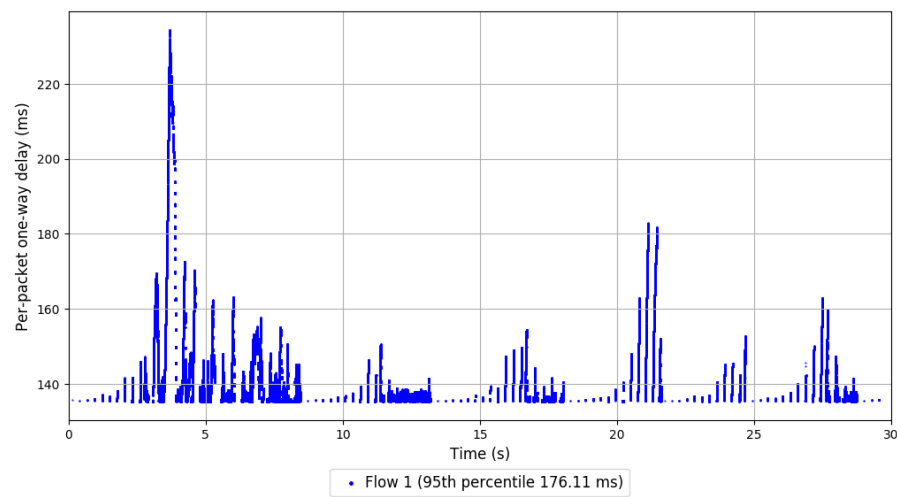
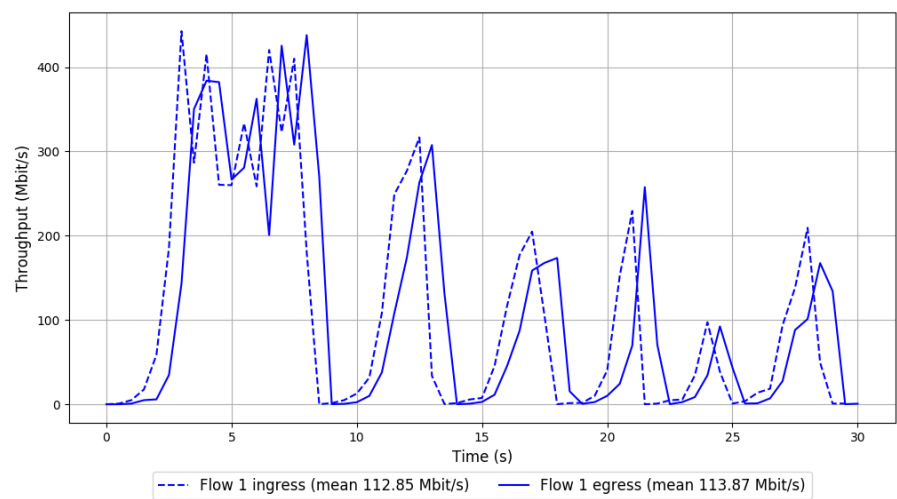


Run 1: Statistics of Verus

Start at: 2018-06-19 17:06:58
End at: 2018-06-19 17:07:28
Local clock offset: 0.253 ms
Remote clock offset: -0.078 ms

Below is generated by plot.py at 2018-06-19 21:44:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 113.87 Mbit/s
95th percentile per-packet one-way delay: 176.109 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 113.87 Mbit/s
95th percentile per-packet one-way delay: 176.109 ms
Loss rate: 0.01%

Run 1: Report of Verus — Data Link

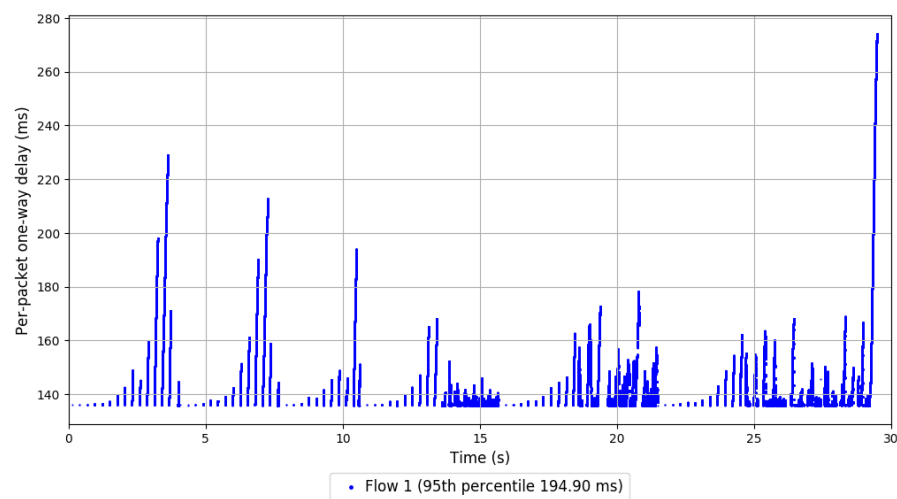
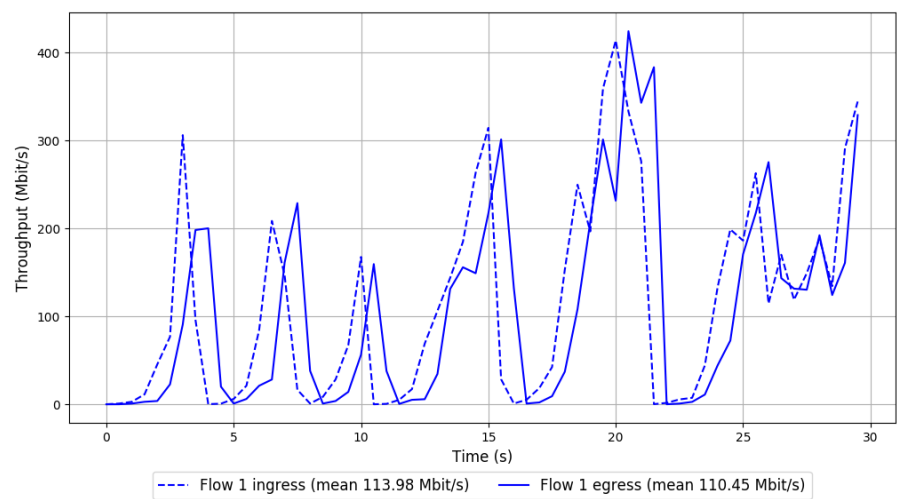


Run 2: Statistics of Verus

Start at: 2018-06-19 17:28:15
End at: 2018-06-19 17:28:45
Local clock offset: 0.003 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-19 21:44:33
Datalink statistics
-- Total of 1 flow:
Average throughput: 110.45 Mbit/s
95th percentile per-packet one-way delay: 194.898 ms
Loss rate: 5.04%
-- Flow 1:
Average throughput: 110.45 Mbit/s
95th percentile per-packet one-way delay: 194.898 ms
Loss rate: 5.04%

Run 2: Report of Verus — Data Link

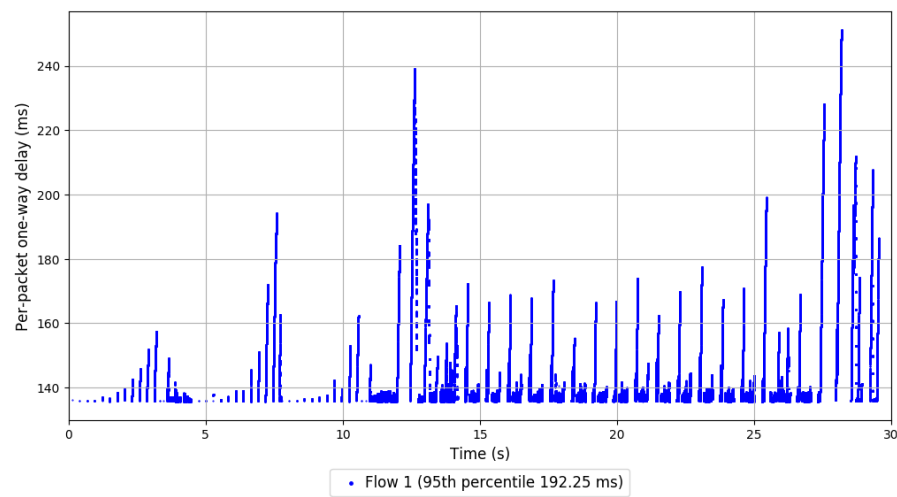
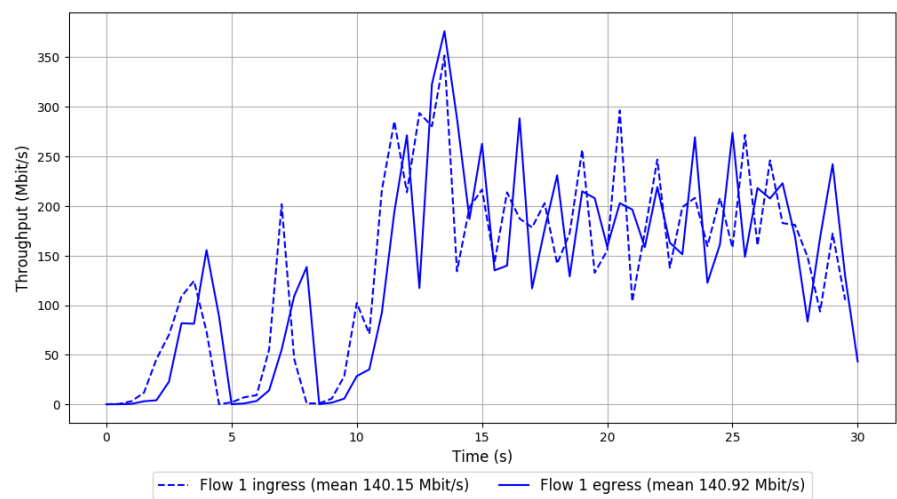


Run 3: Statistics of Verus

Start at: 2018-06-19 17:49:10
End at: 2018-06-19 17:49:40
Local clock offset: -0.05 ms
Remote clock offset: -0.004 ms

Below is generated by plot.py at 2018-06-19 21:45:10
Datalink statistics
-- Total of 1 flow:
Average throughput: 140.92 Mbit/s
95th percentile per-packet one-way delay: 192.245 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 140.92 Mbit/s
95th percentile per-packet one-way delay: 192.245 ms
Loss rate: 1.25%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-19 18:10:22

End at: 2018-06-19 18:10:52

Local clock offset: -0.098 ms

Remote clock offset: 0.347 ms

Below is generated by plot.py at 2018-06-19 21:45:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 169.38 Mbit/s

95th percentile per-packet one-way delay: 308.340 ms

Loss rate: 4.90%

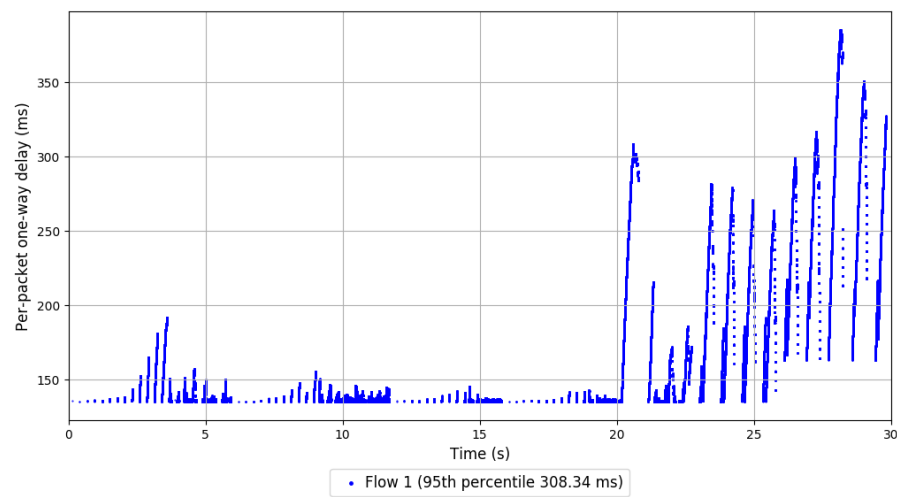
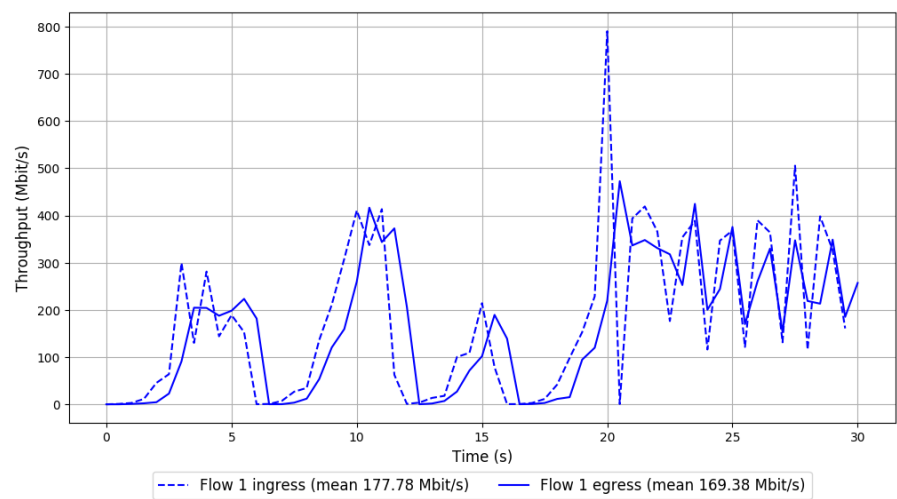
-- Flow 1:

Average throughput: 169.38 Mbit/s

95th percentile per-packet one-way delay: 308.340 ms

Loss rate: 4.90%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-06-19 18:30:54

End at: 2018-06-19 18:31:24

Local clock offset: -0.172 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-19 21:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 181.59 Mbit/s

95th percentile per-packet one-way delay: 162.592 ms

Loss rate: 1.56%

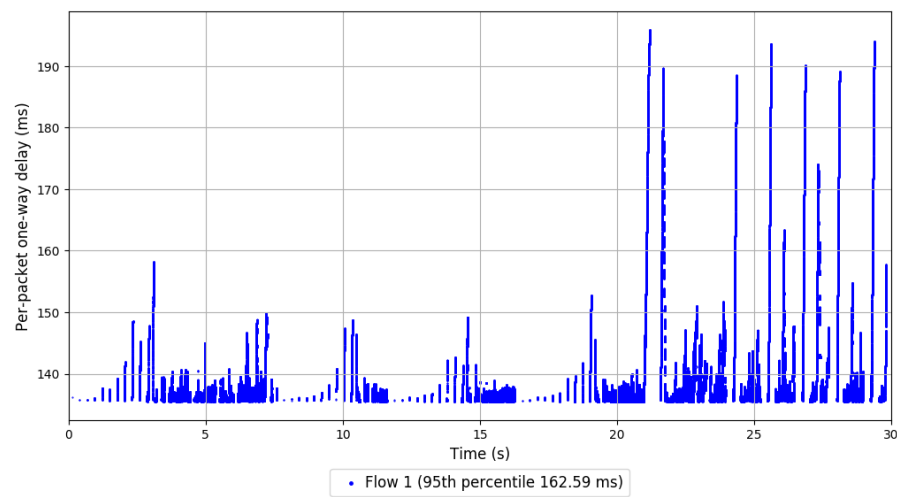
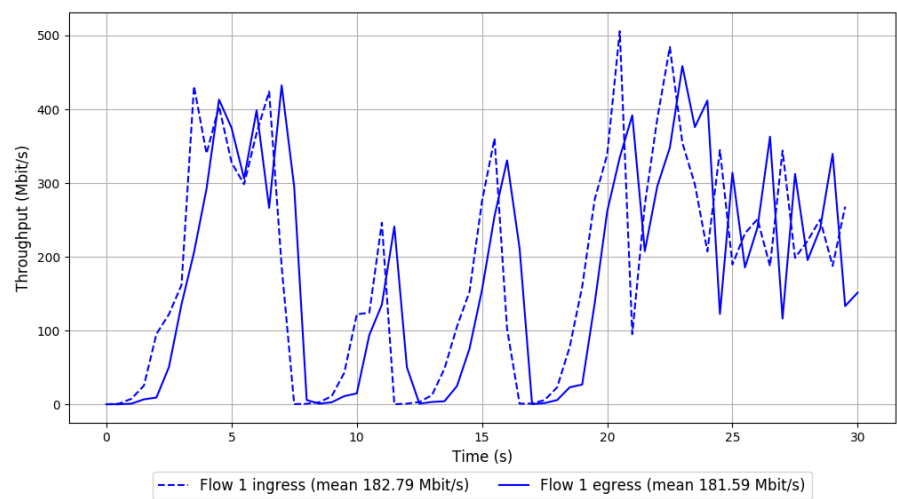
-- Flow 1:

Average throughput: 181.59 Mbit/s

95th percentile per-packet one-way delay: 162.592 ms

Loss rate: 1.56%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-19 18:52:05

End at: 2018-06-19 18:52:35

Local clock offset: -0.02 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-19 21:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 117.36 Mbit/s

95th percentile per-packet one-way delay: 208.827 ms

Loss rate: 2.77%

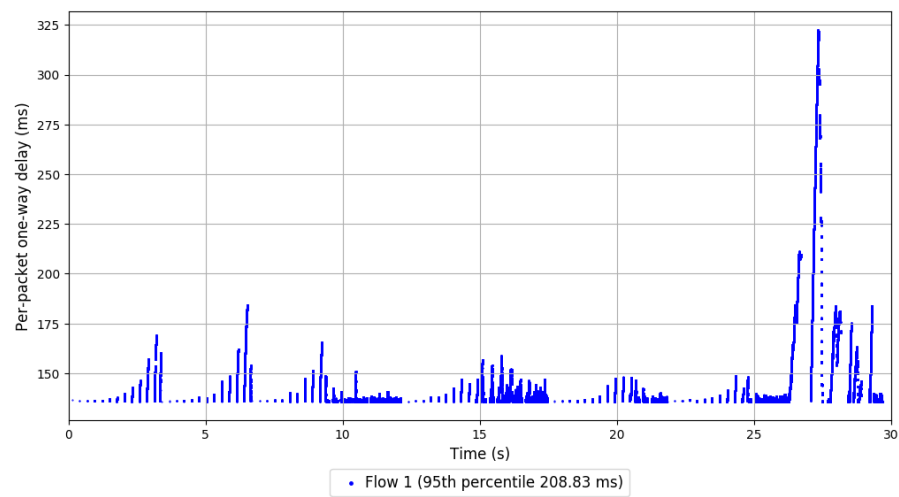
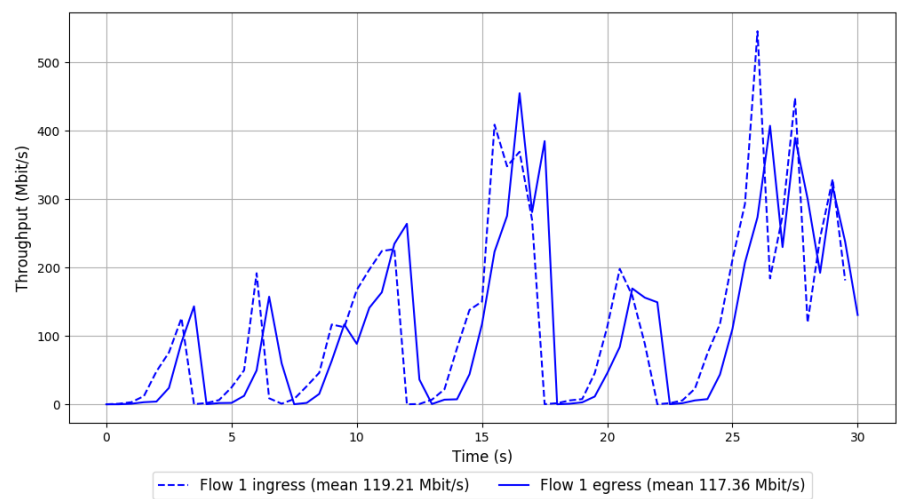
-- Flow 1:

Average throughput: 117.36 Mbit/s

95th percentile per-packet one-way delay: 208.827 ms

Loss rate: 2.77%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-19 19:13:09

End at: 2018-06-19 19:13:39

Local clock offset: 0.093 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-06-19 21:46:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 237.226 ms

Loss rate: 3.22%

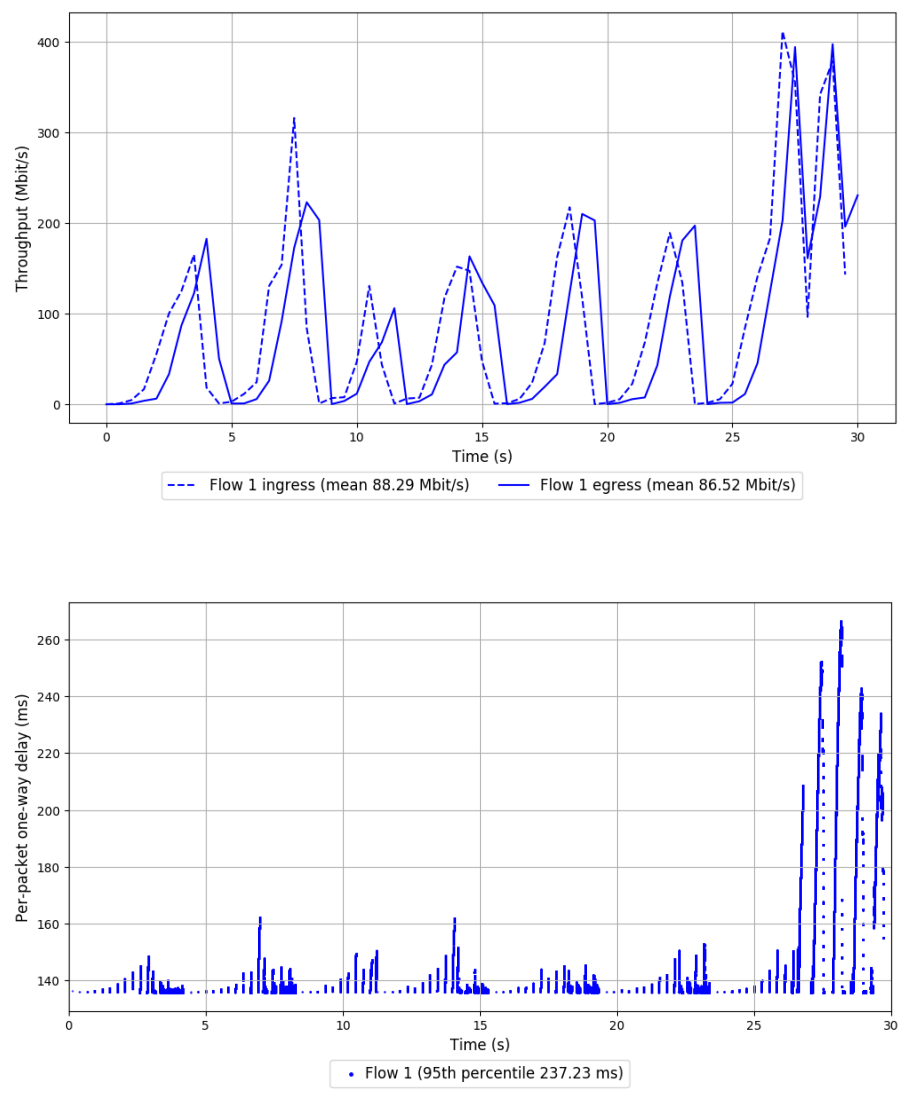
-- Flow 1:

Average throughput: 86.52 Mbit/s

95th percentile per-packet one-way delay: 237.226 ms

Loss rate: 3.22%

Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-06-19 19:34:26

End at: 2018-06-19 19:34:56

Local clock offset: 0.244 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-06-19 21:47:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 249.56 Mbit/s

95th percentile per-packet one-way delay: 184.133 ms

Loss rate: 0.22%

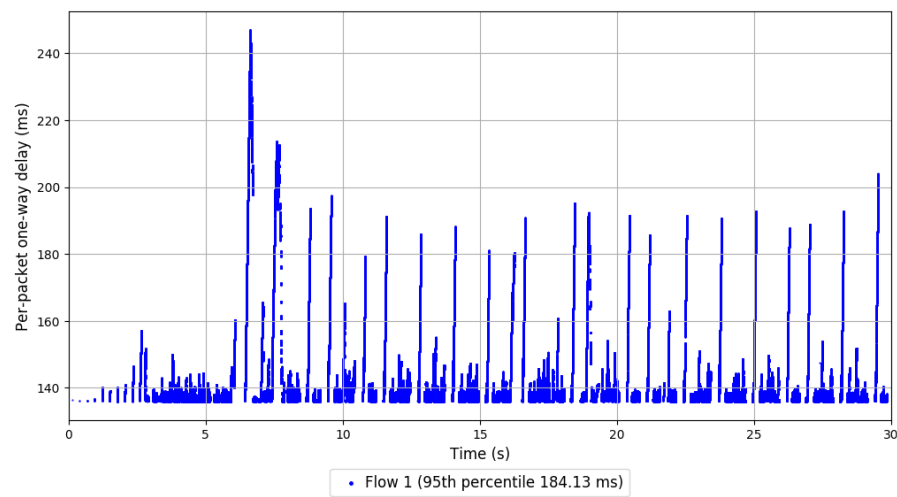
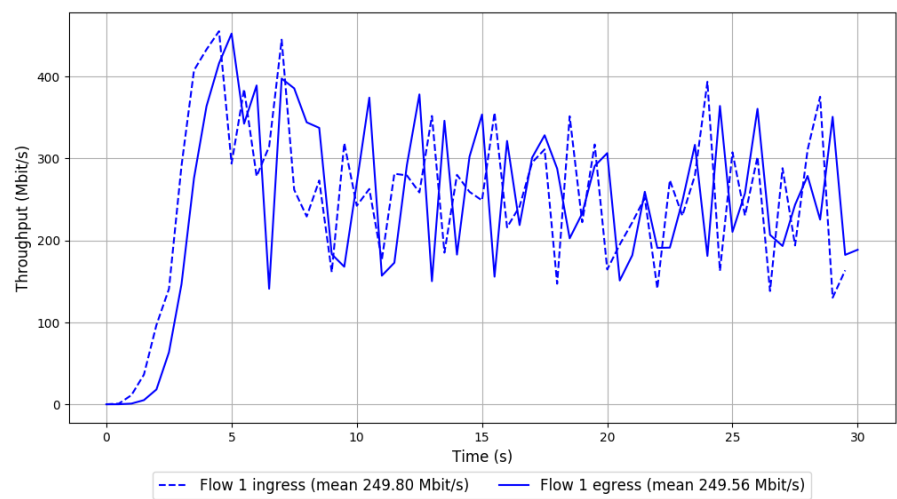
-- Flow 1:

Average throughput: 249.56 Mbit/s

95th percentile per-packet one-way delay: 184.133 ms

Loss rate: 0.22%

Run 8: Report of Verus — Data Link

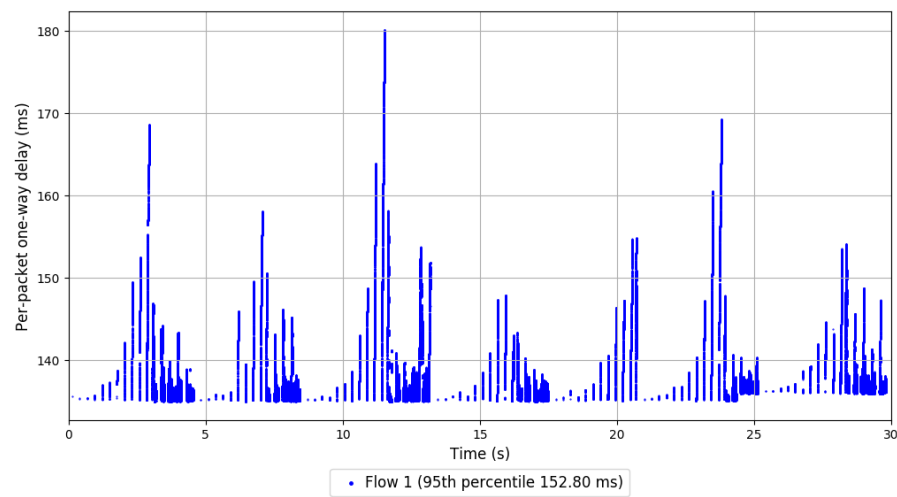
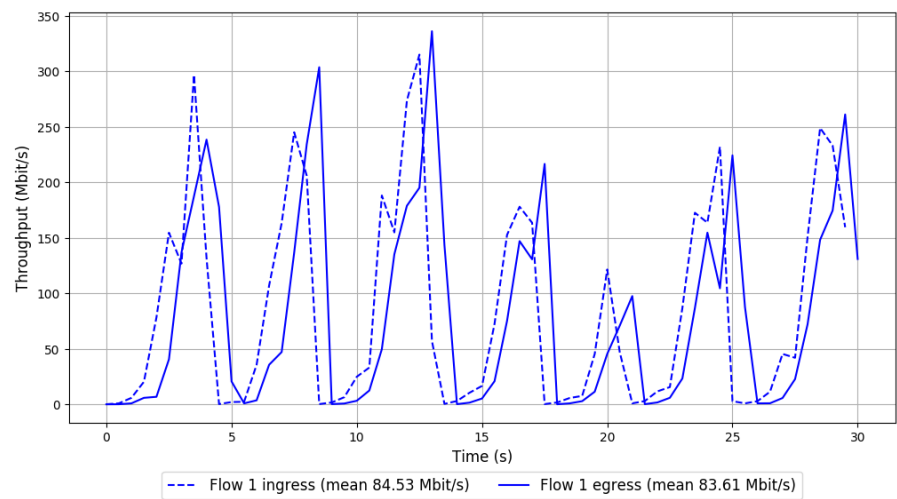


Run 9: Statistics of Verus

Start at: 2018-06-19 19:56:09
End at: 2018-06-19 19:56:39
Local clock offset: 0.062 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-19 21:47:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 152.799 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 83.61 Mbit/s
95th percentile per-packet one-way delay: 152.799 ms
Loss rate: 1.54%

Run 9: Report of Verus — Data Link

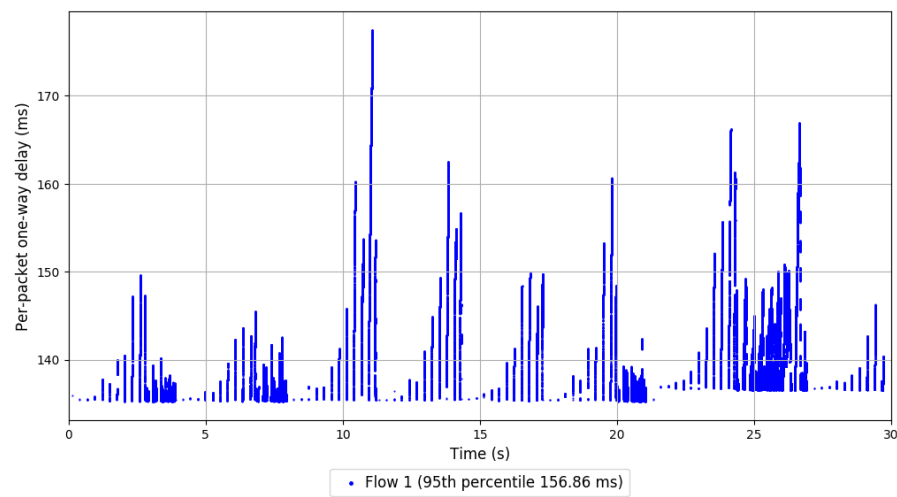
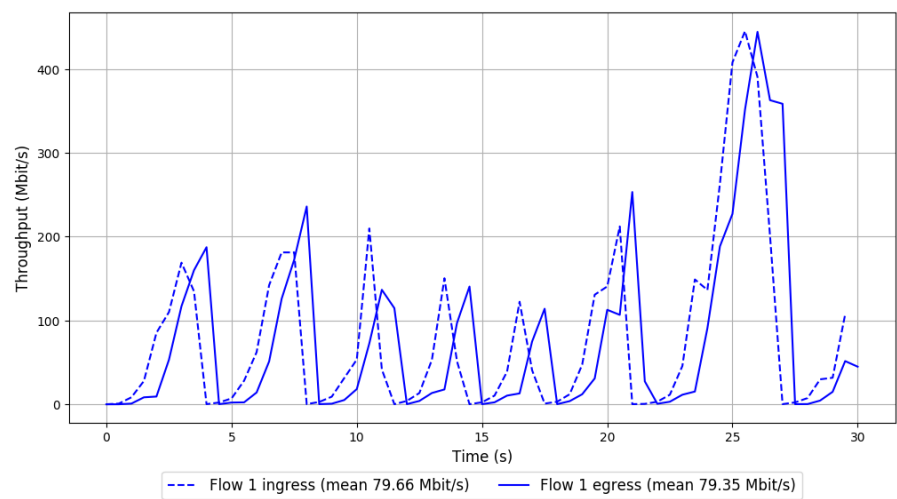


Run 10: Statistics of Verus

Start at: 2018-06-19 20:17:12
End at: 2018-06-19 20:17:42
Local clock offset: -0.105 ms
Remote clock offset: -0.442 ms

Below is generated by plot.py at 2018-06-19 21:47:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 156.860 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 79.35 Mbit/s
95th percentile per-packet one-way delay: 156.860 ms
Loss rate: 1.31%

Run 10: Report of Verus — Data Link

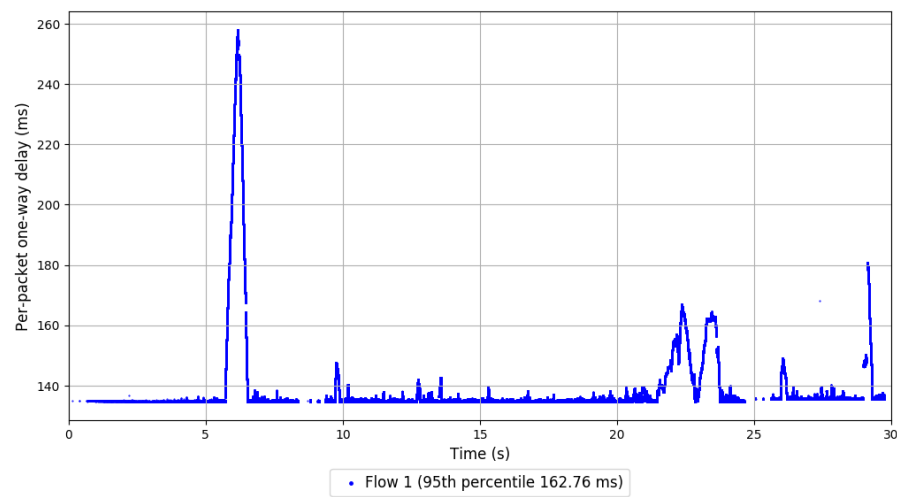
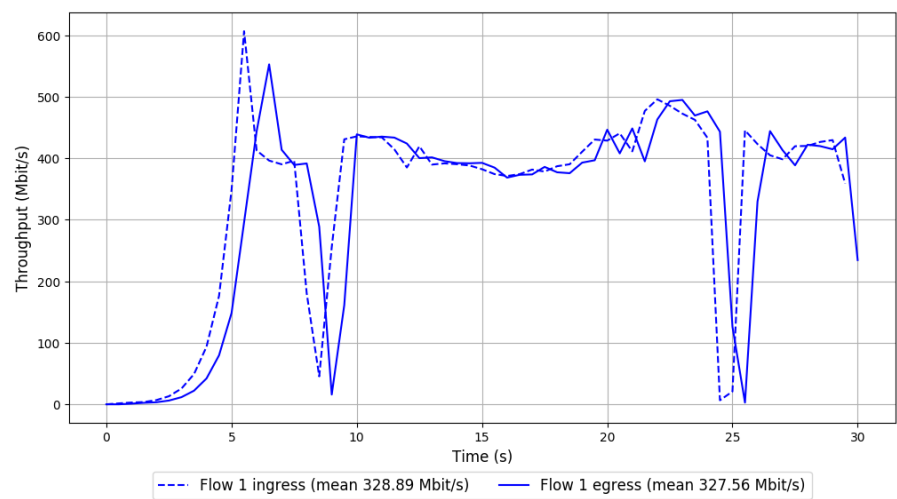


Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 17:11:39
End at: 2018-06-19 17:12:09
Local clock offset: -0.262 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-19 21:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 327.56 Mbit/s
95th percentile per-packet one-way delay: 162.756 ms
Loss rate: 1.31%
-- Flow 1:
Average throughput: 327.56 Mbit/s
95th percentile per-packet one-way delay: 162.756 ms
Loss rate: 1.31%

Run 1: Report of PCC-Vivace — Data Link

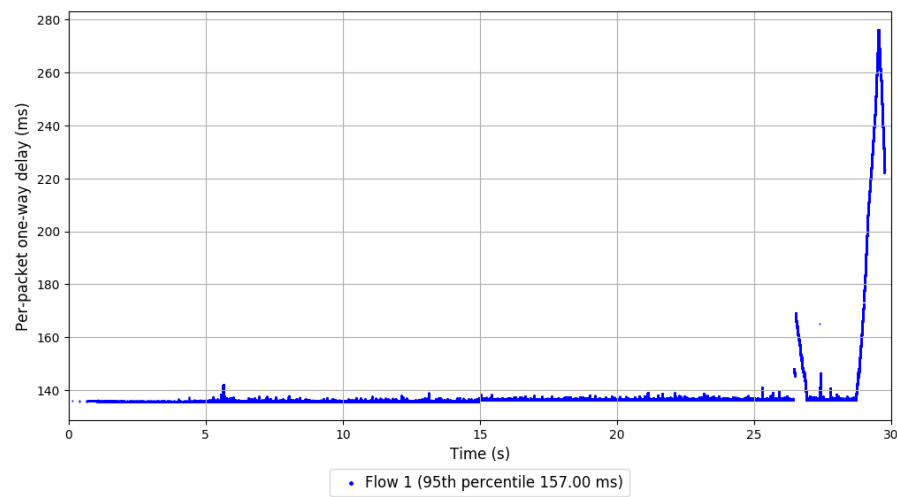
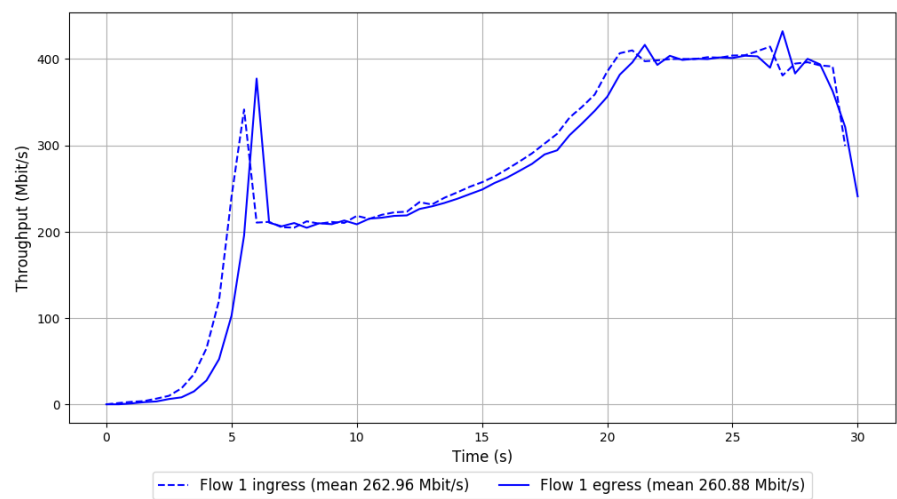


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 17:32:49
End at: 2018-06-19 17:33:19
Local clock offset: 0.083 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-19 21:50:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 260.88 Mbit/s
95th percentile per-packet one-way delay: 157.002 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 260.88 Mbit/s
95th percentile per-packet one-way delay: 157.002 ms
Loss rate: 1.69%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 17:53:53

End at: 2018-06-19 17:54:23

Local clock offset: 0.056 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-19 21:50:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 300.76 Mbit/s

95th percentile per-packet one-way delay: 146.363 ms

Loss rate: 1.44%

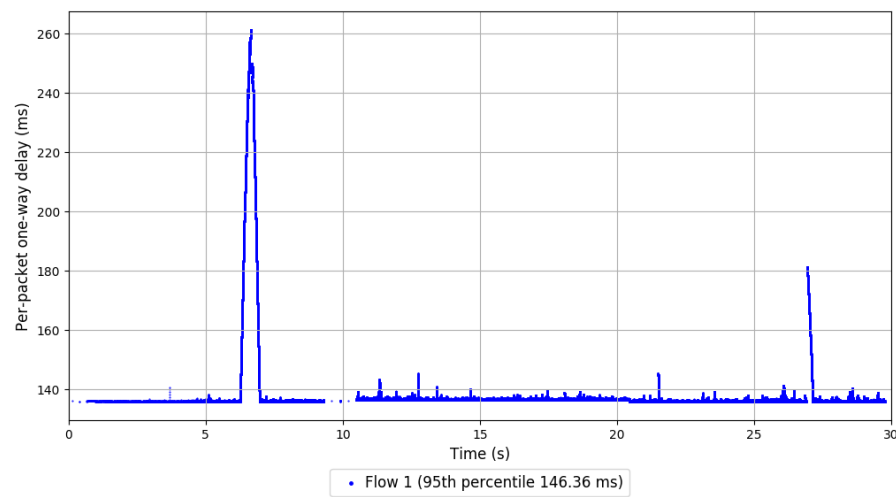
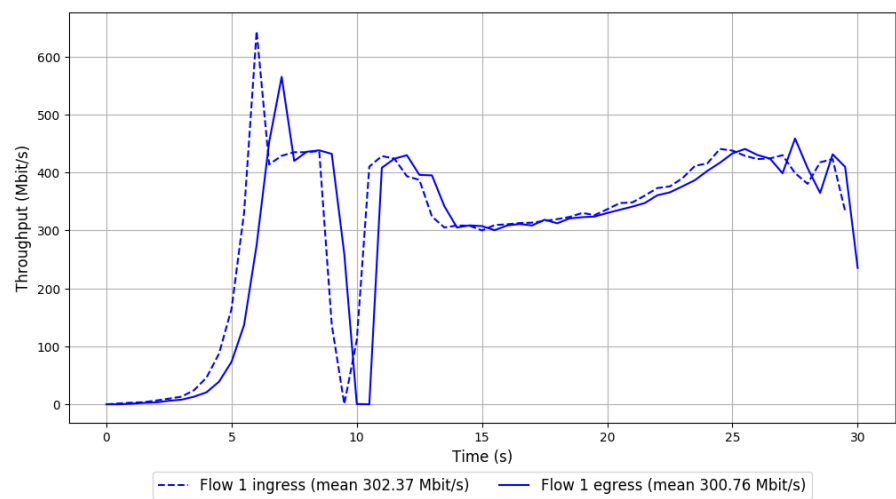
-- Flow 1:

Average throughput: 300.76 Mbit/s

95th percentile per-packet one-way delay: 146.363 ms

Loss rate: 1.44%

Run 3: Report of PCC-Vivace — Data Link

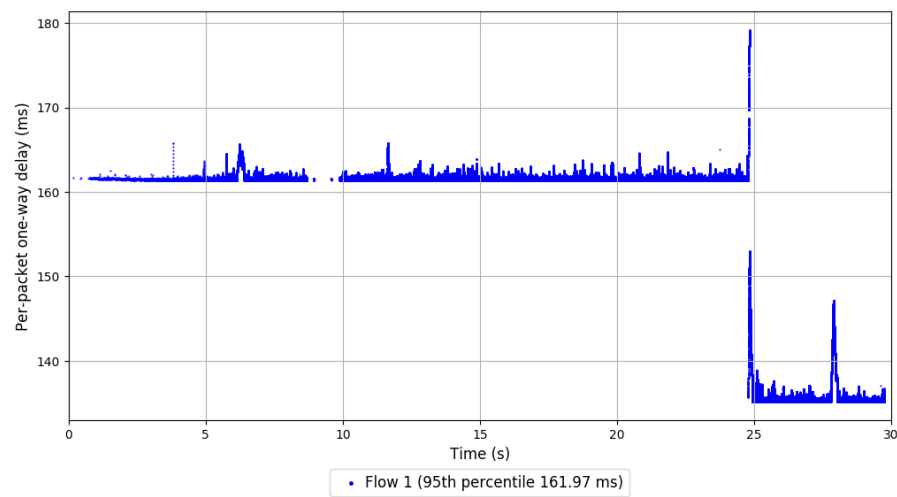
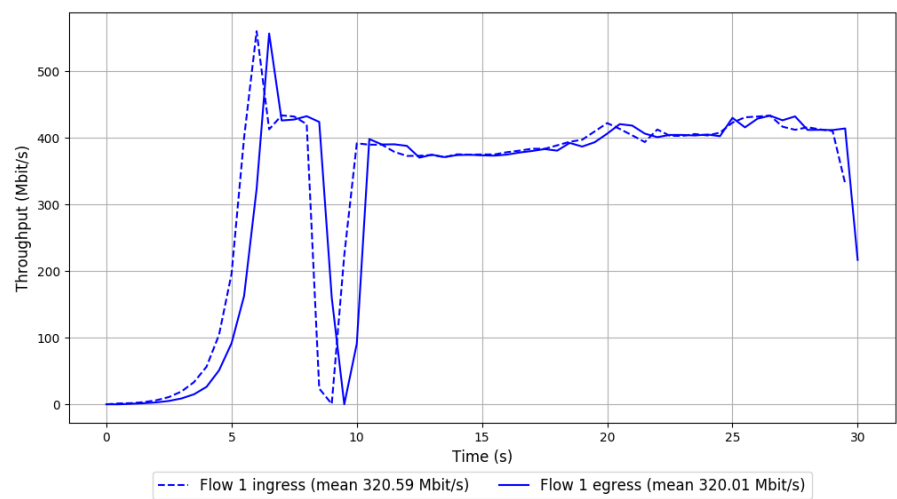


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 18:14:39
End at: 2018-06-19 18:15:09
Local clock offset: -0.115 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-19 21:51:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.01 Mbit/s
95th percentile per-packet one-way delay: 161.971 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 320.01 Mbit/s
95th percentile per-packet one-way delay: 161.971 ms
Loss rate: 1.17%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 18:35:37

End at: 2018-06-19 18:36:07

Local clock offset: 0.042 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-19 21:51:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 318.72 Mbit/s

95th percentile per-packet one-way delay: 136.758 ms

Loss rate: 1.06%

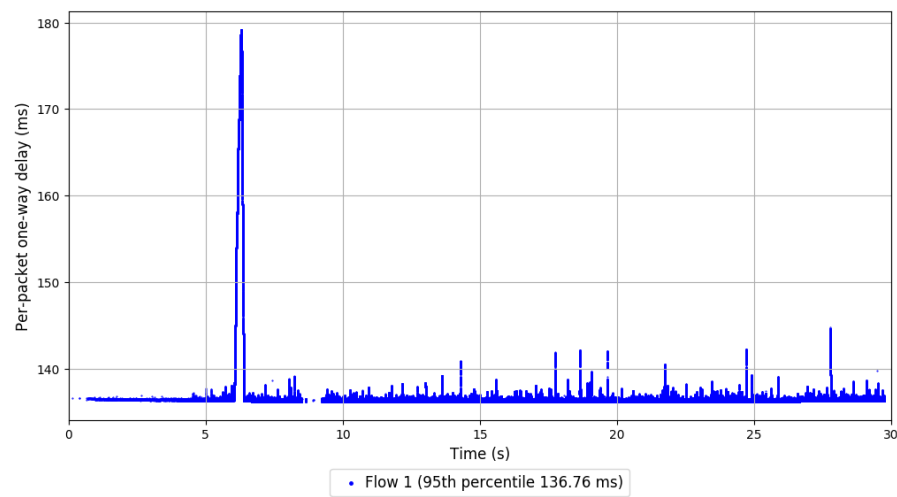
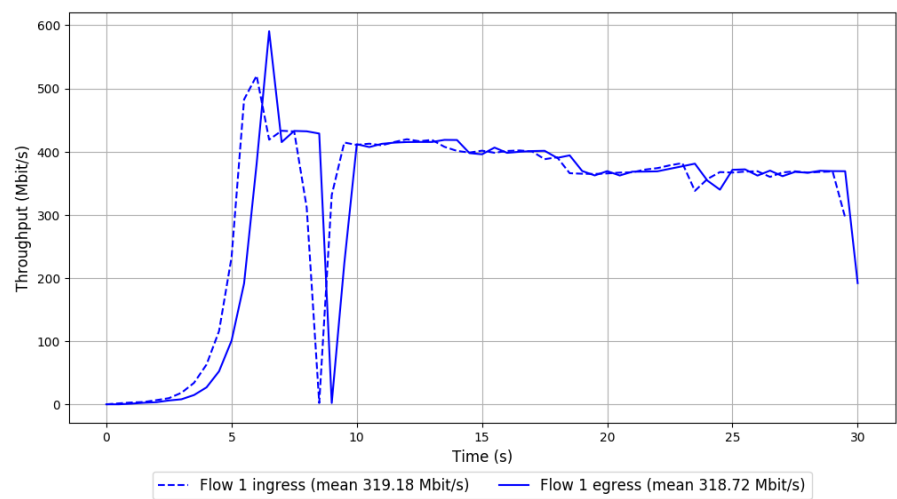
-- Flow 1:

Average throughput: 318.72 Mbit/s

95th percentile per-packet one-way delay: 136.758 ms

Loss rate: 1.06%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 18:56:36

End at: 2018-06-19 18:57:06

Local clock offset: 0.12 ms

Remote clock offset: -0.273 ms

Below is generated by plot.py at 2018-06-19 21:51:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 282.85 Mbit/s

95th percentile per-packet one-way delay: 138.659 ms

Loss rate: 1.22%

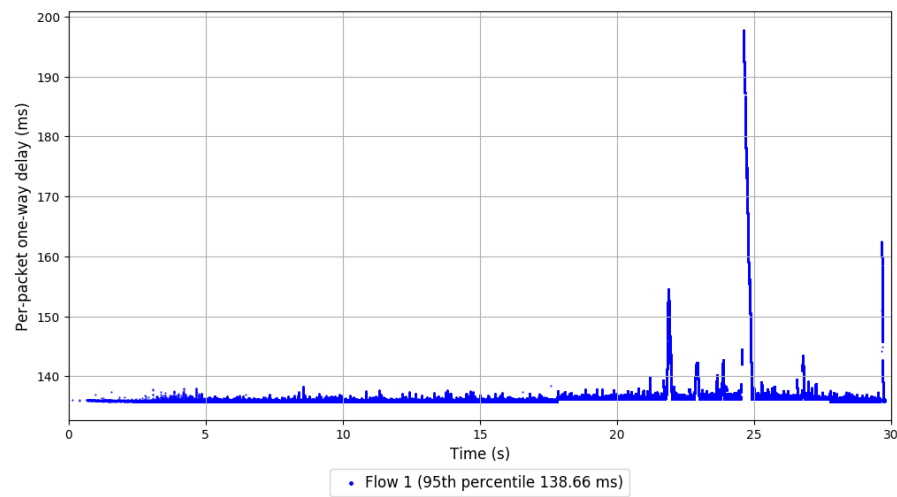
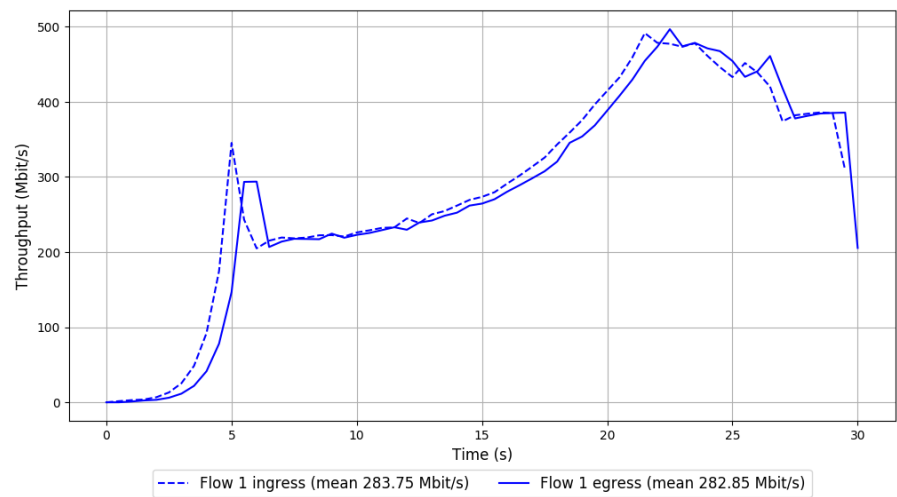
-- Flow 1:

Average throughput: 282.85 Mbit/s

95th percentile per-packet one-way delay: 138.659 ms

Loss rate: 1.22%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 19:17:49

End at: 2018-06-19 19:18:19

Local clock offset: 0.041 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-06-19 21:51:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 223.63 Mbit/s

95th percentile per-packet one-way delay: 150.340 ms

Loss rate: 1.53%

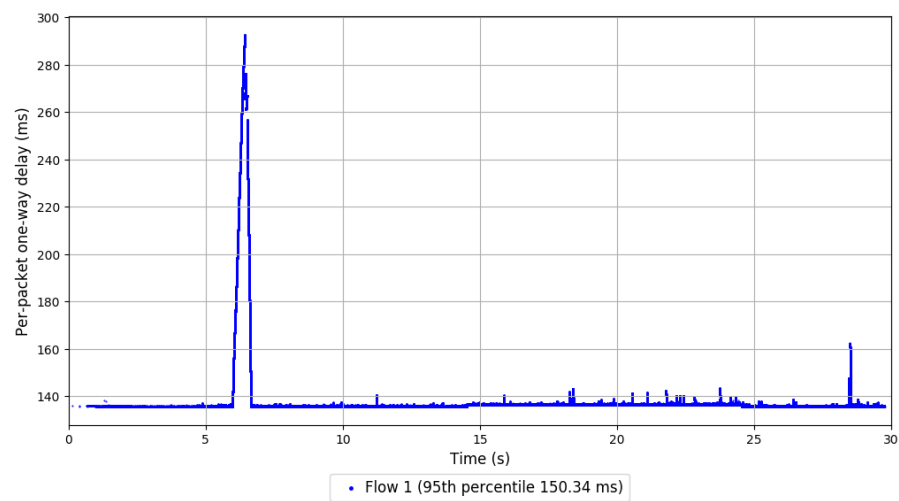
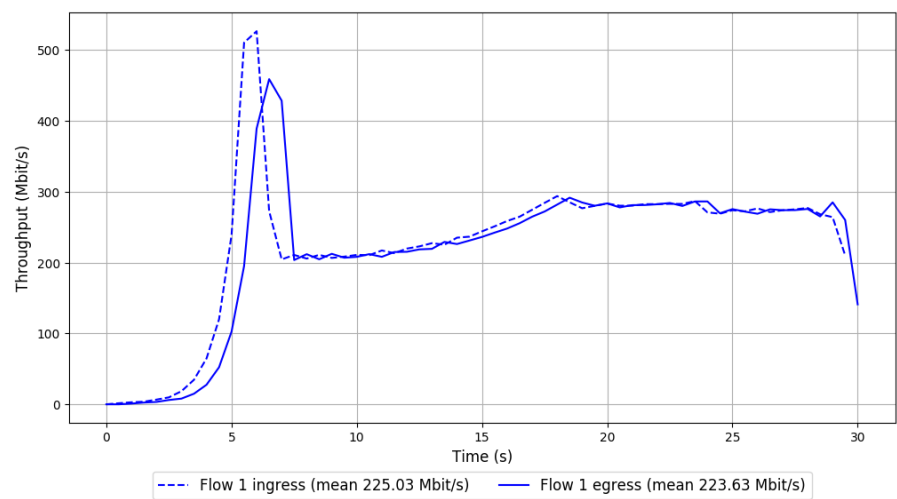
-- Flow 1:

Average throughput: 223.63 Mbit/s

95th percentile per-packet one-way delay: 150.340 ms

Loss rate: 1.53%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 19:39:24

End at: 2018-06-19 19:39:54

Local clock offset: -0.059 ms

Remote clock offset: 0.052 ms

Below is generated by plot.py at 2018-06-19 21:52:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 341.22 Mbit/s

95th percentile per-packet one-way delay: 136.733 ms

Loss rate: 0.98%

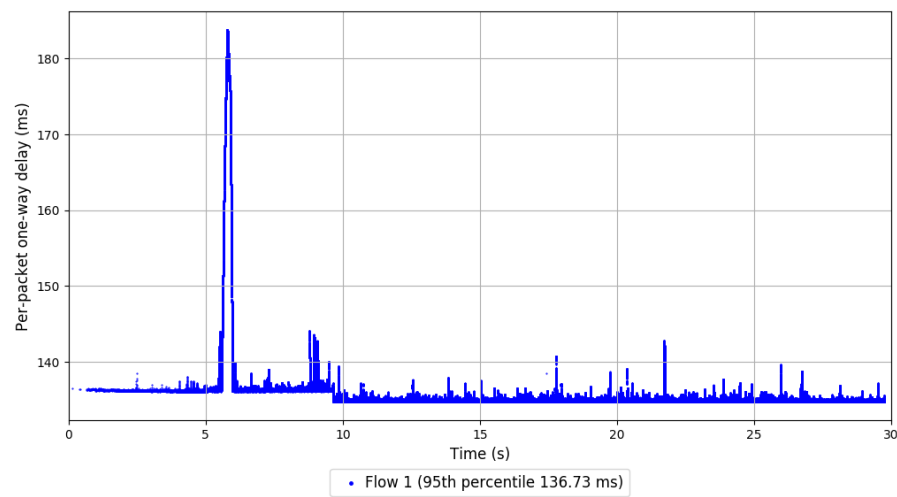
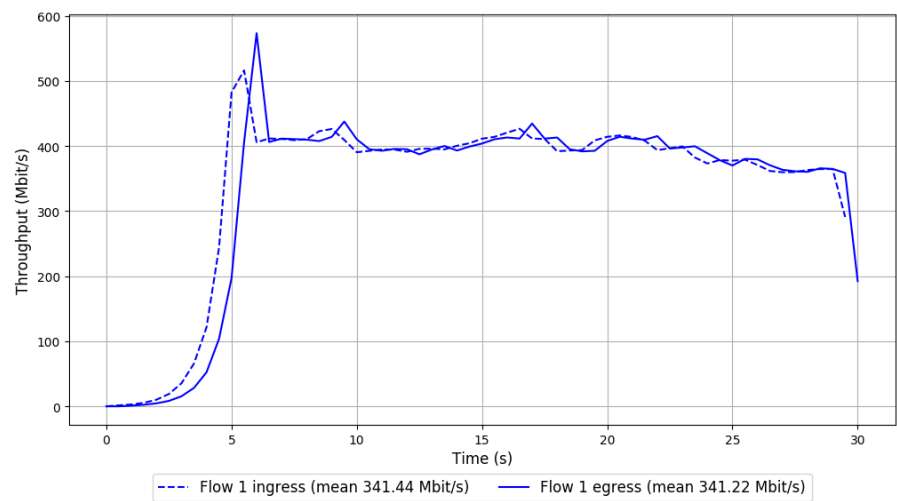
-- Flow 1:

Average throughput: 341.22 Mbit/s

95th percentile per-packet one-way delay: 136.733 ms

Loss rate: 0.98%

Run 8: Report of PCC-Vivace — Data Link

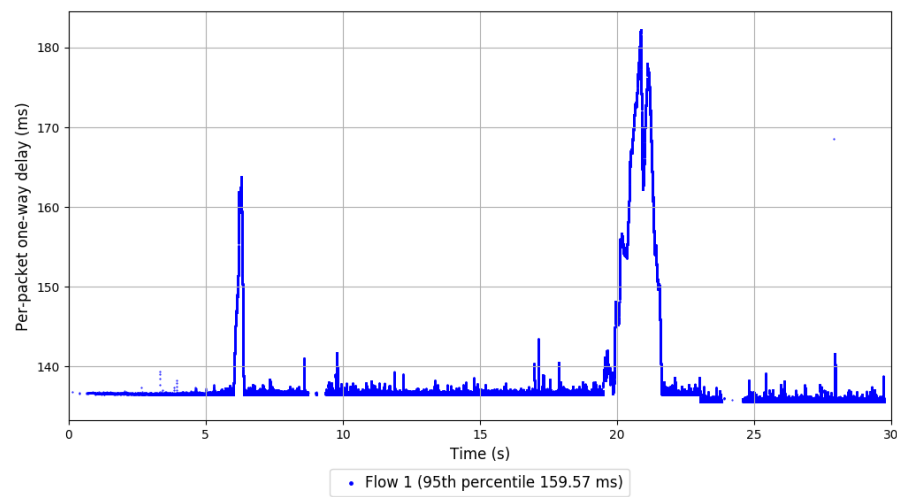
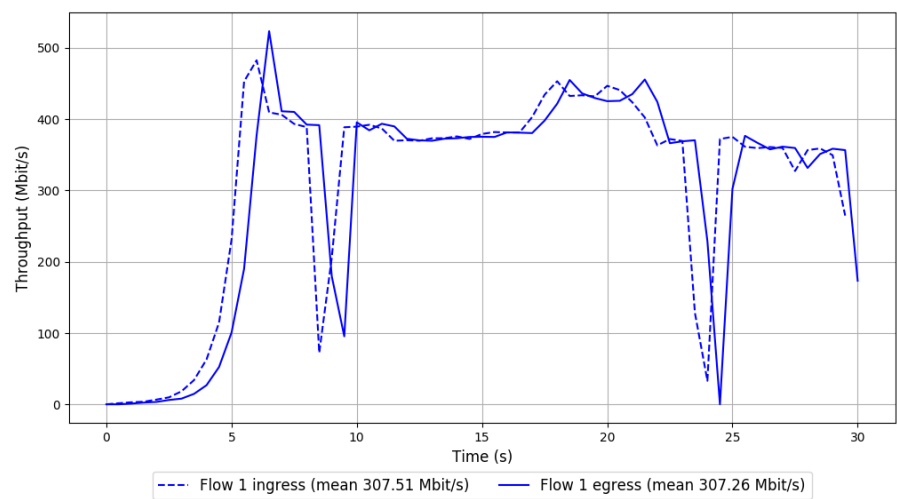


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 20:00:51
End at: 2018-06-19 20:01:21
Local clock offset: -0.07 ms
Remote clock offset: -0.404 ms

Below is generated by plot.py at 2018-06-19 21:52:39
Datalink statistics
-- Total of 1 flow:
Average throughput: 307.26 Mbit/s
95th percentile per-packet one-way delay: 159.574 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 307.26 Mbit/s
95th percentile per-packet one-way delay: 159.574 ms
Loss rate: 1.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 20:21:55

End at: 2018-06-19 20:22:25

Local clock offset: -0.094 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-19 21:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.76 Mbit/s

95th percentile per-packet one-way delay: 136.990 ms

Loss rate: 1.10%

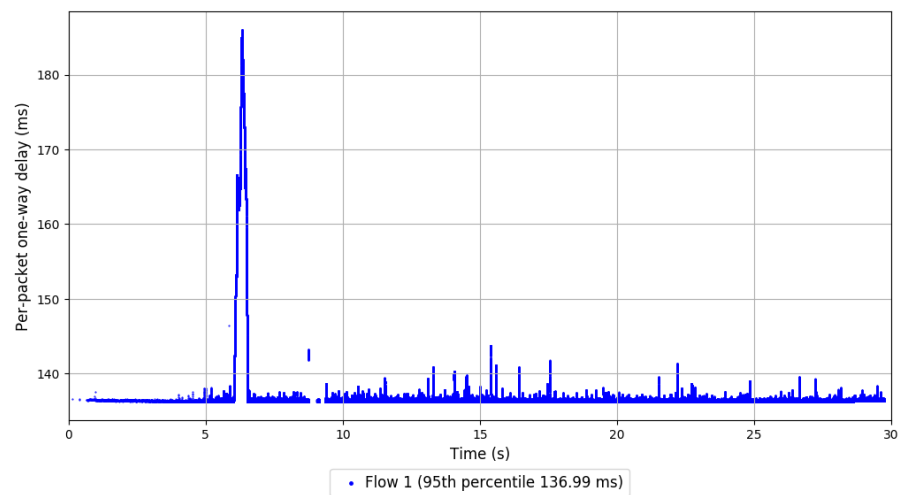
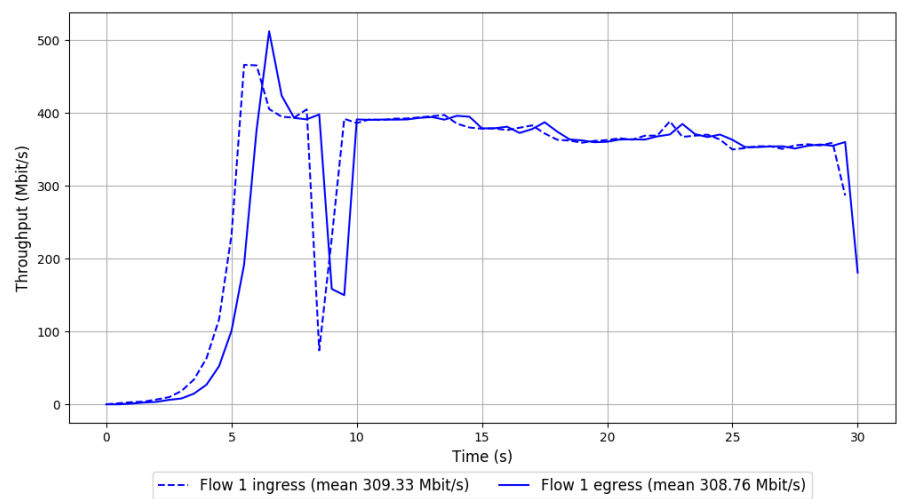
-- Flow 1:

Average throughput: 308.76 Mbit/s

95th percentile per-packet one-way delay: 136.990 ms

Loss rate: 1.10%

Run 10: Report of PCC-Vivace — Data Link

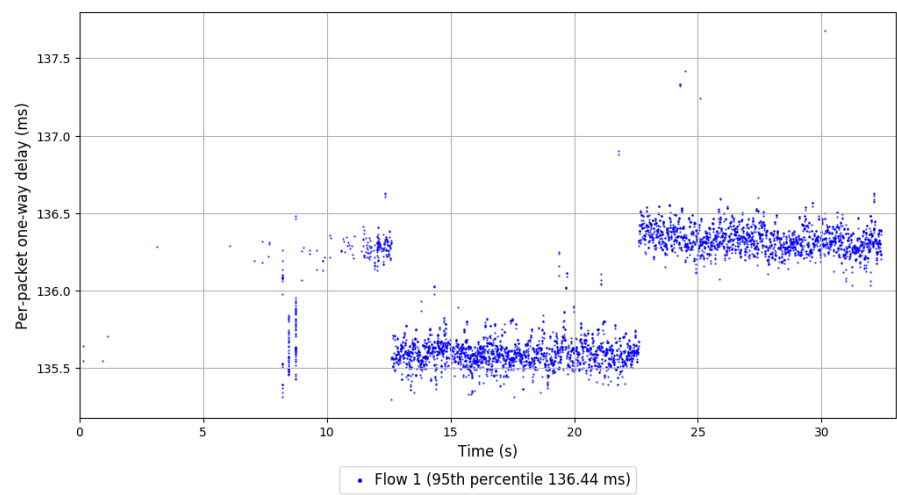
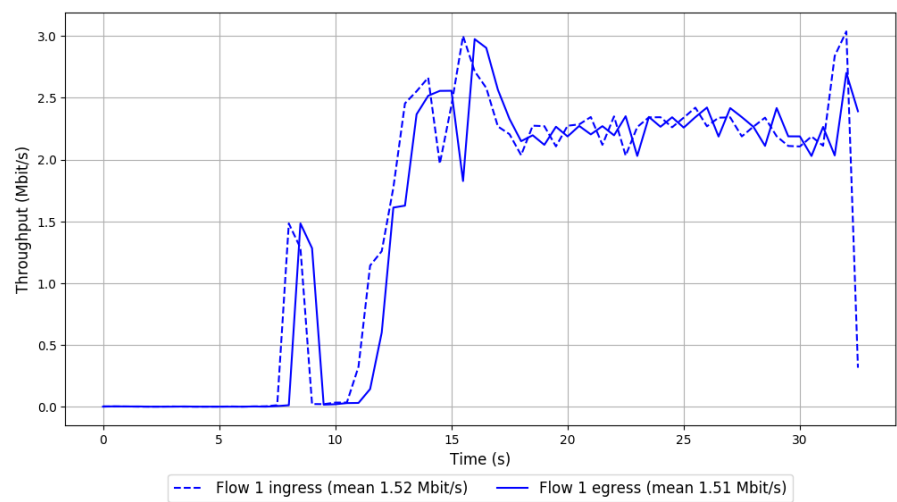


Run 1: Statistics of WebRTC media

Start at: 2018-06-19 17:13:14
End at: 2018-06-19 17:13:44
Local clock offset: -0.028 ms
Remote clock offset: -0.409 ms

Below is generated by plot.py at 2018-06-19 21:52:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 1.51 Mbit/s
95th percentile per-packet one-way delay: 136.438 ms
Loss rate: 1.74%

Run 1: Report of WebRTC media — Data Link

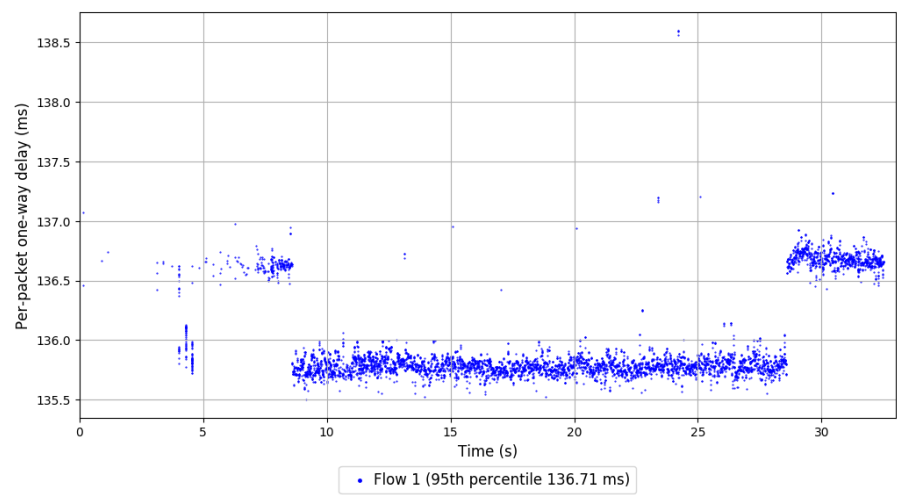
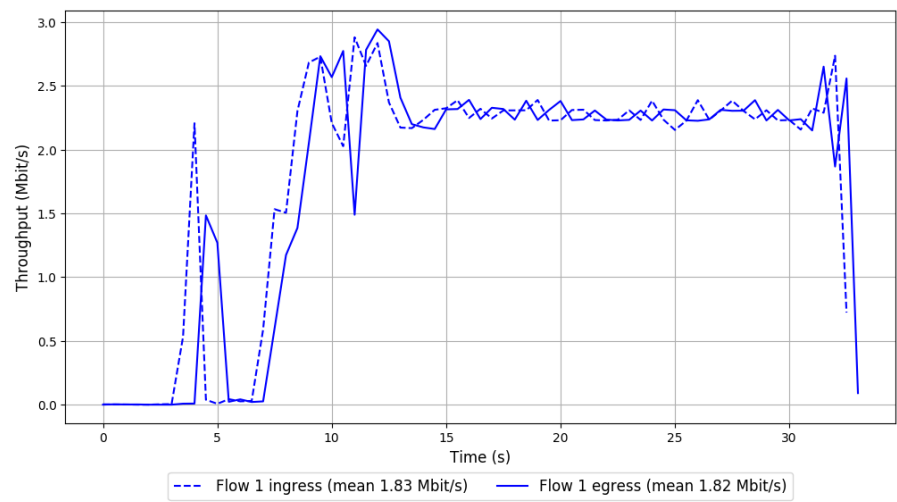


Run 2: Statistics of WebRTC media

Start at: 2018-06-19 17:34:18
End at: 2018-06-19 17:34:48
Local clock offset: -0.165 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-19 21:52:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.712 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 136.712 ms
Loss rate: 1.28%

Run 2: Report of WebRTC media — Data Link

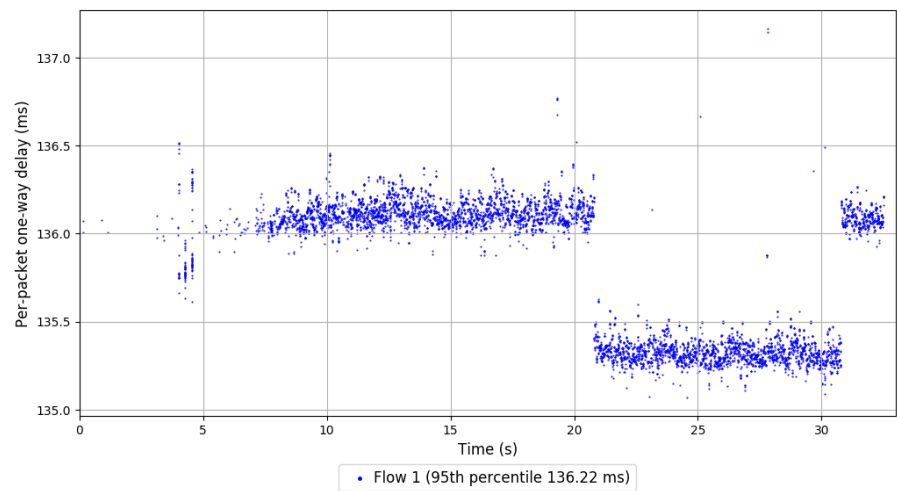
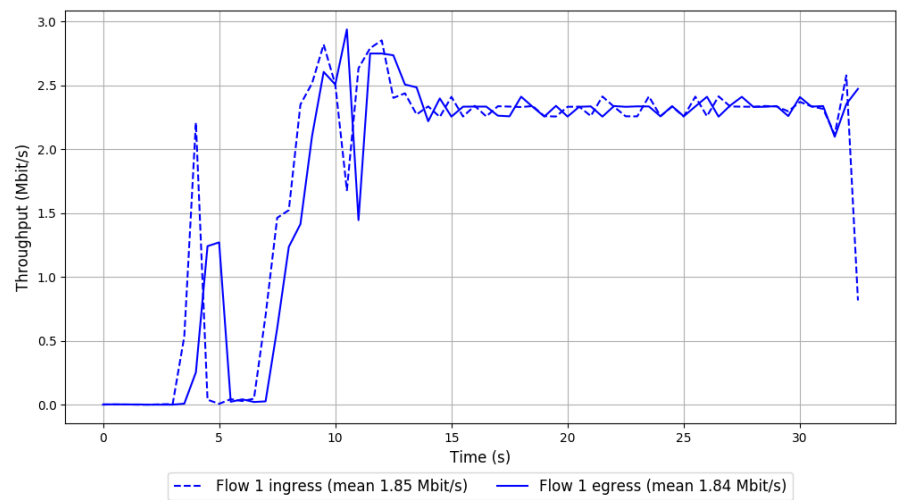


Run 3: Statistics of WebRTC media

Start at: 2018-06-19 17:55:26
End at: 2018-06-19 17:55:56
Local clock offset: -0.296 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-19 21:52:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 136.221 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 1.84 Mbit/s
95th percentile per-packet one-way delay: 136.221 ms
Loss rate: 1.26%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 18:16:13

End at: 2018-06-19 18:16:43

Local clock offset: 0.069 ms

Remote clock offset: -0.01 ms

Below is generated by plot.py at 2018-06-19 21:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 165.763 ms

Loss rate: 1.25%

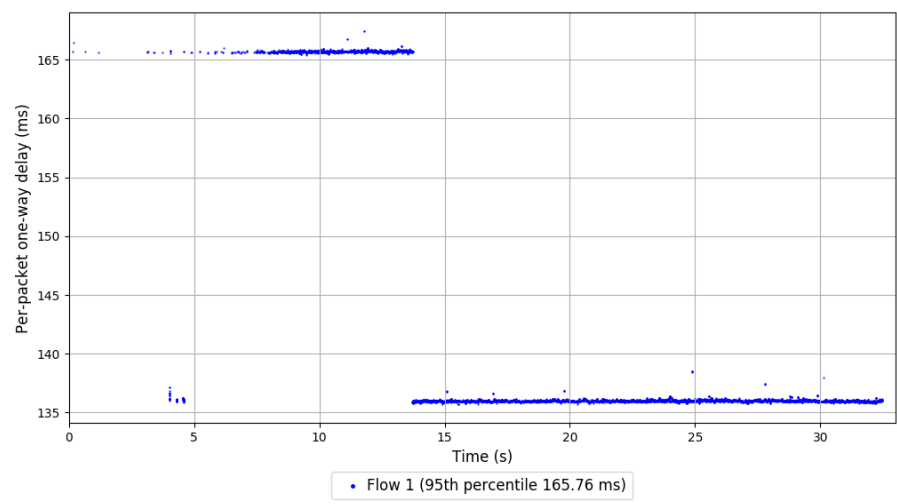
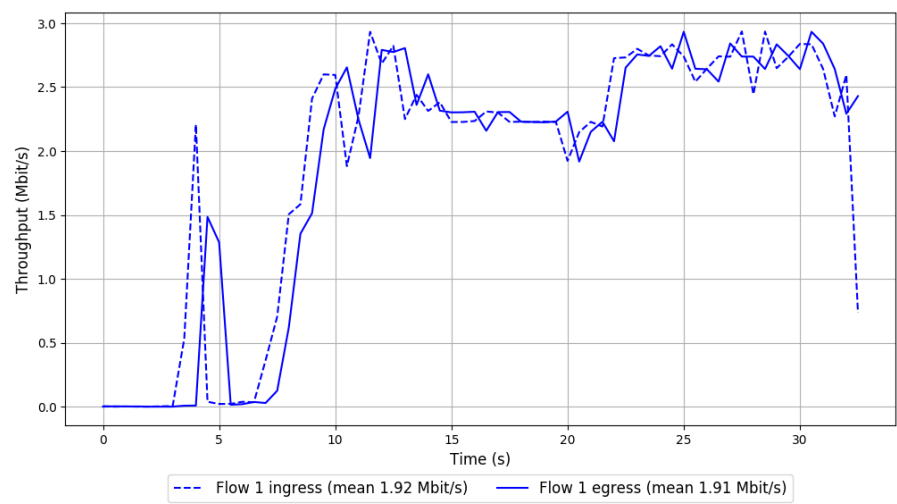
-- Flow 1:

Average throughput: 1.91 Mbit/s

95th percentile per-packet one-way delay: 165.763 ms

Loss rate: 1.25%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-19 18:37:10

End at: 2018-06-19 18:37:40

Local clock offset: 0.166 ms

Remote clock offset: 0.08 ms

Below is generated by plot.py at 2018-06-19 21:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.792 ms

Loss rate: 1.27%

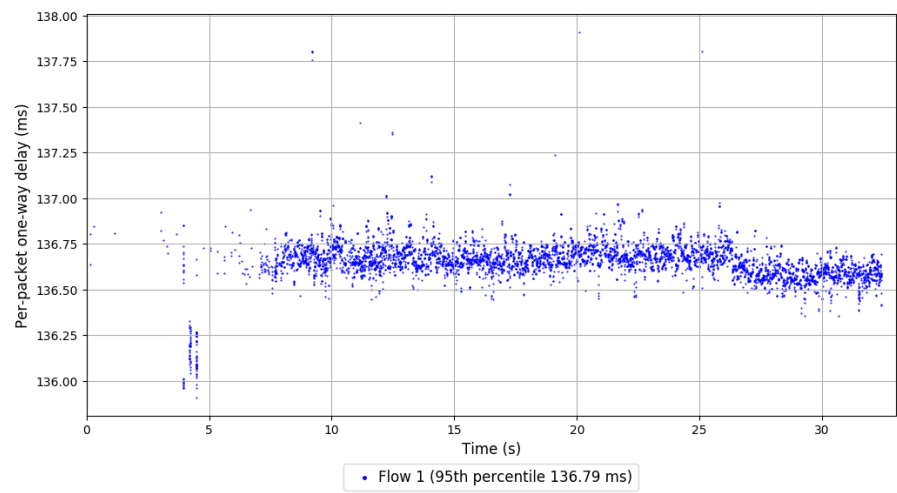
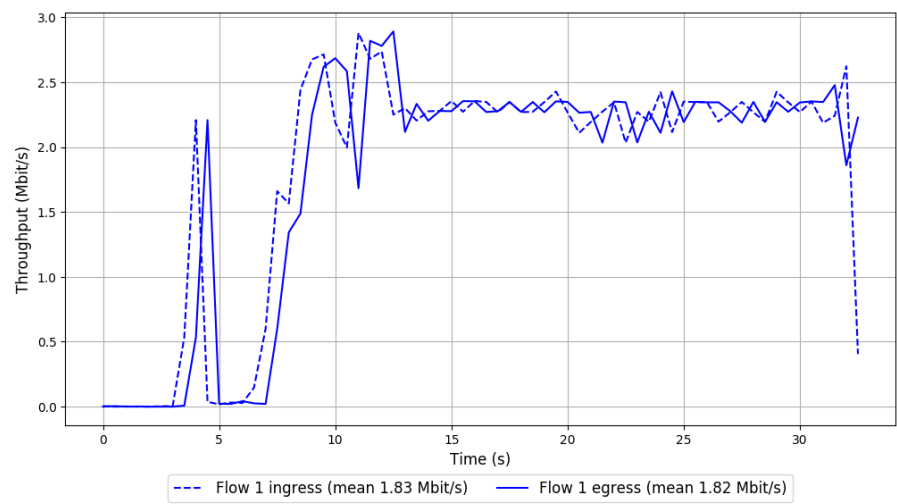
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.792 ms

Loss rate: 1.27%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-06-19 18:58:07

End at: 2018-06-19 18:58:37

Local clock offset: -0.214 ms

Remote clock offset: 0.099 ms

Below is generated by plot.py at 2018-06-19 21:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 135.502 ms

Loss rate: 1.31%

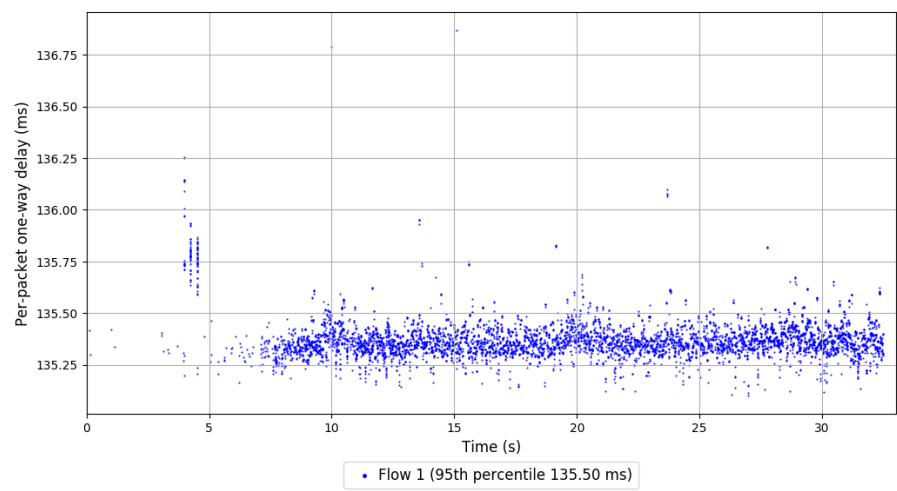
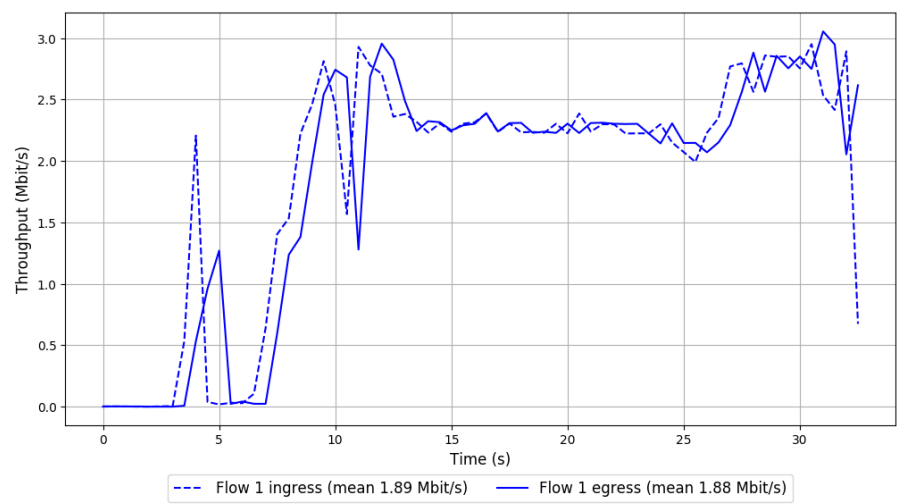
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 135.502 ms

Loss rate: 1.31%

Run 6: Report of WebRTC media — Data Link

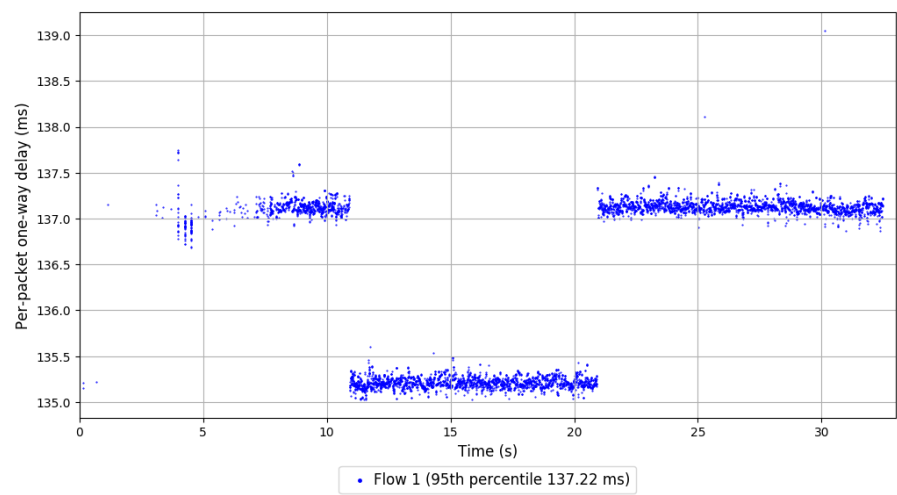
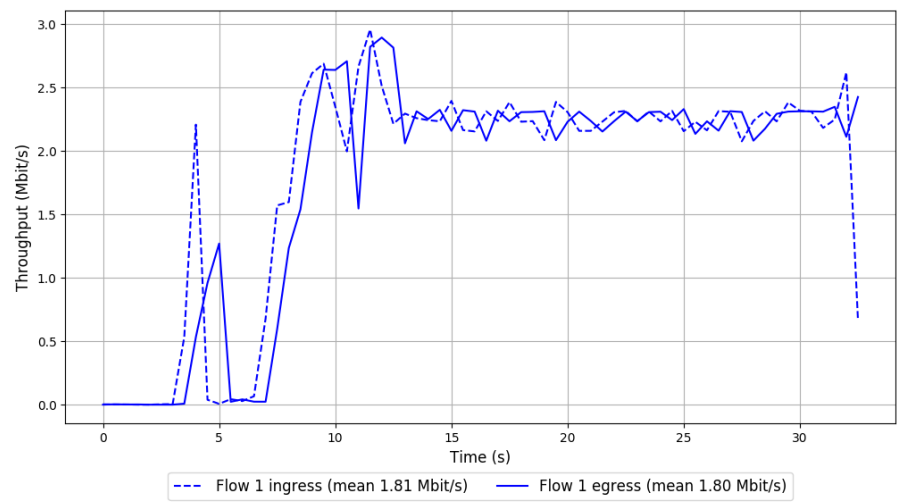


Run 7: Statistics of WebRTC media

Start at: 2018-06-19 19:19:16
End at: 2018-06-19 19:19:46
Local clock offset: 0.064 ms
Remote clock offset: -0.341 ms

Below is generated by plot.py at 2018-06-19 21:52:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 137.220 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 137.220 ms
Loss rate: 1.29%

Run 7: Report of WebRTC media — Data Link

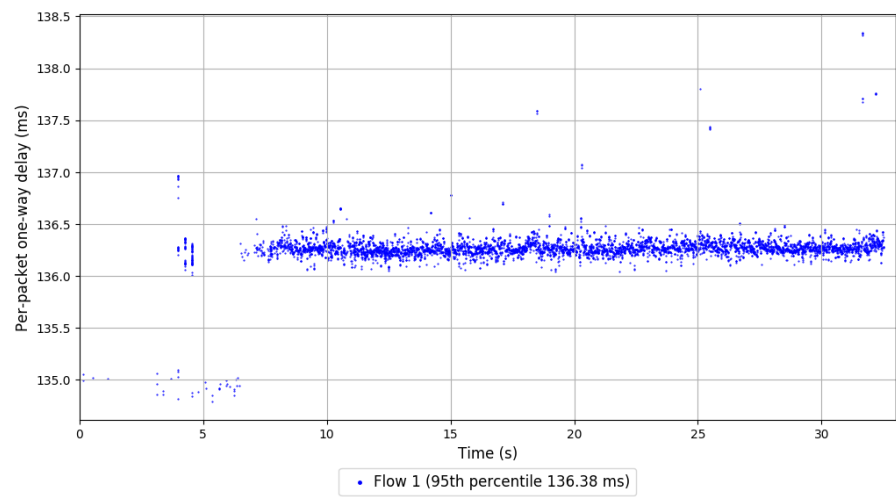
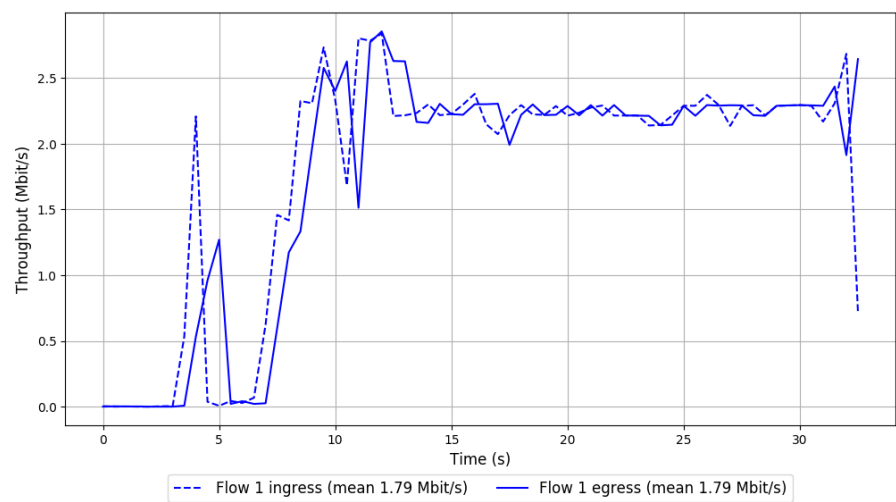


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 19:41:00
End at: 2018-06-19 19:41:30
Local clock offset: 0.162 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-19 21:52:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 1.79 Mbit/s
95th percentile per-packet one-way delay: 136.381 ms
Loss rate: 1.28%

Run 8: Report of WebRTC media — Data Link

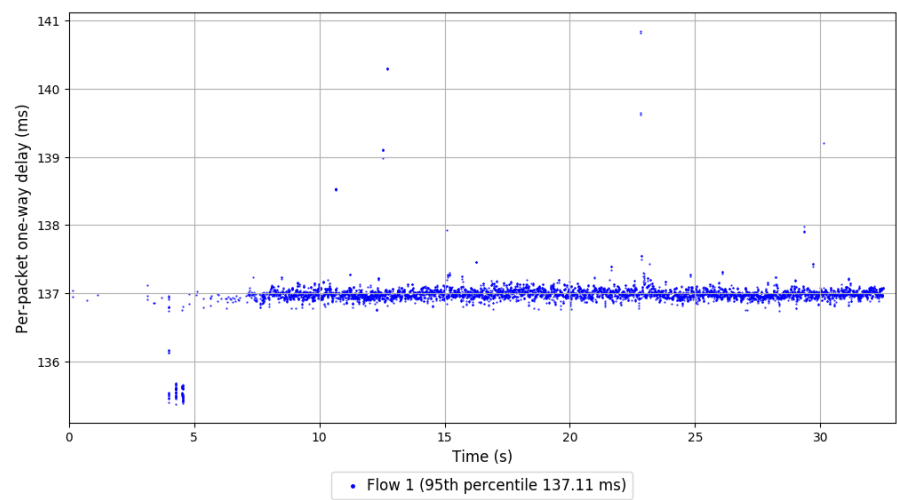
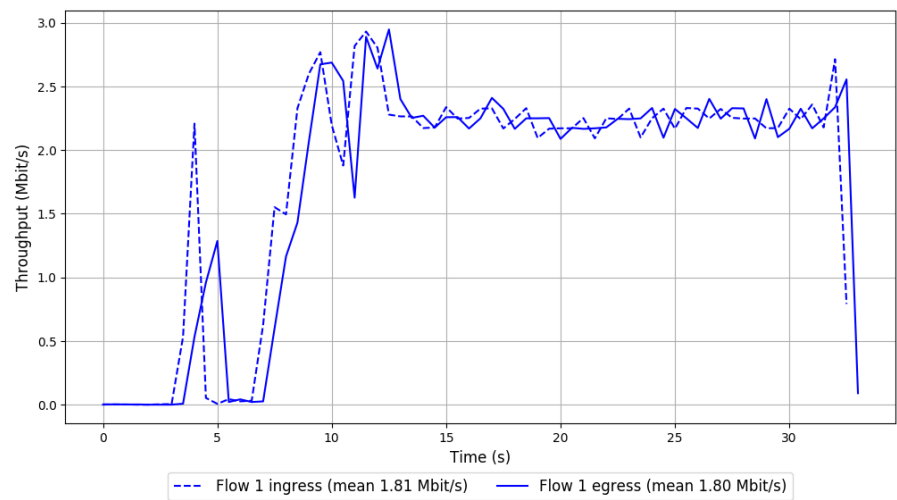


Run 9: Statistics of WebRTC media

Start at: 2018-06-19 20:02:23
End at: 2018-06-19 20:02:53
Local clock offset: -0.007 ms
Remote clock offset: -0.467 ms

Below is generated by plot.py at 2018-06-19 21:52:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 137.106 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 137.106 ms
Loss rate: 1.28%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 20:23:28

End at: 2018-06-19 20:23:58

Local clock offset: 0.174 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-06-19 21:52:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 1.86 Mbit/s

95th percentile per-packet one-way delay: 136.435 ms

Loss rate: 1.33%

Run 10: Report of WebRTC media — Data Link

