

Pantheon Report

Generated at 2018-06-19 10:41:59 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

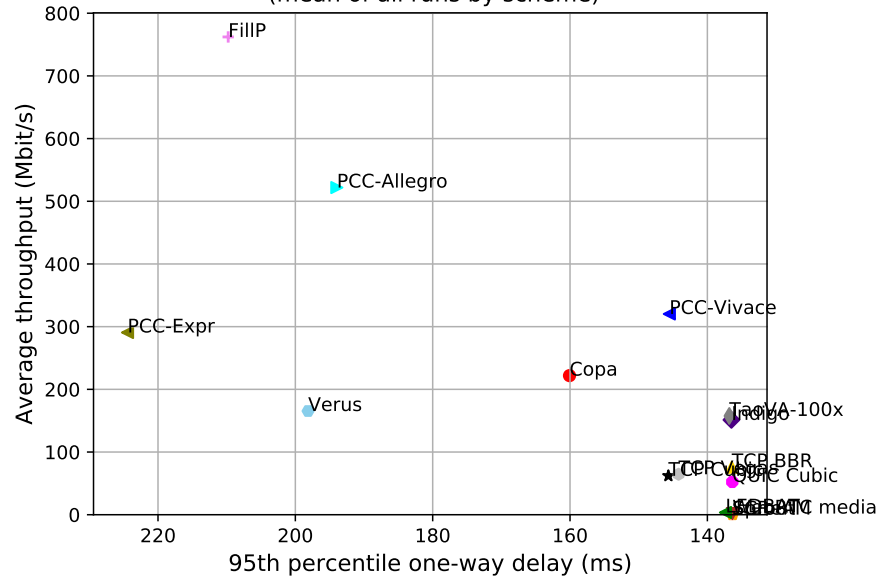
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

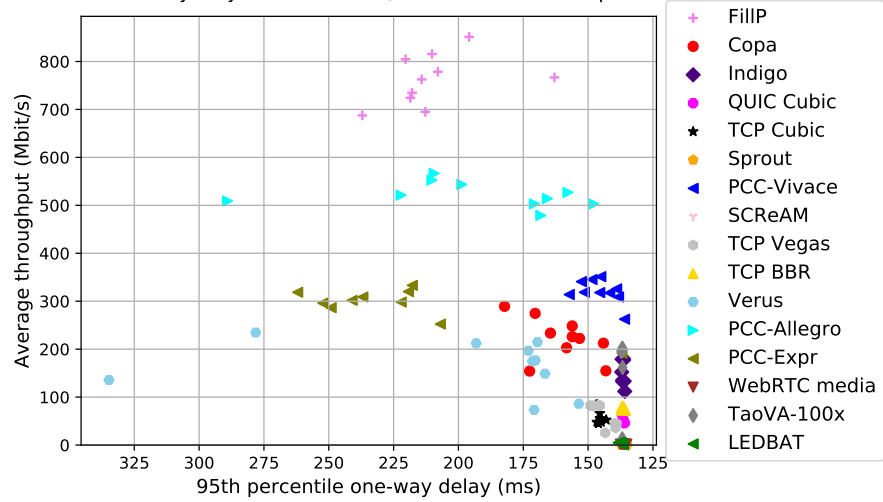
Git summary:

```
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-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	75.79	136.45	0.00
Copa	10	221.88	160.08	0.07
TCP Cubic	10	62.02	145.68	0.01
FillP	10	762.13	209.78	4.01
Indigo	10	151.30	136.50	0.00
LEDBAT	10	3.57	137.37	0.00
PCC-Allegro	10	521.87	193.96	1.91
PCC-Expr	10	290.68	224.44	1.19
QUIC Cubic	5	52.39	136.37	0.00
SCReAM	10	0.22	136.40	0.00
Sprout	10	0.16	136.33	0.00
TaoVA-100x	10	157.56	136.81	0.00
TCP Vegas	10	64.55	144.20	0.01
Verus	10	165.42	198.14	1.69
PCC-Vivace	10	320.24	145.54	0.07
WebRTC media	10	1.85	136.36	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-06-19 05:55:59

End at: 2018-06-19 05:56:29

Local clock offset: 0.093 ms

Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-06-19 09:28:39

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 135.717 ms

Loss rate: 0.00%

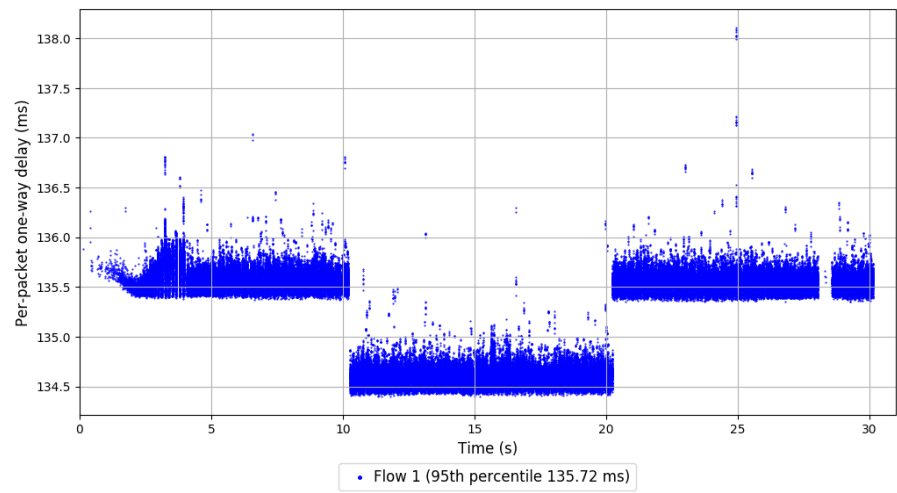
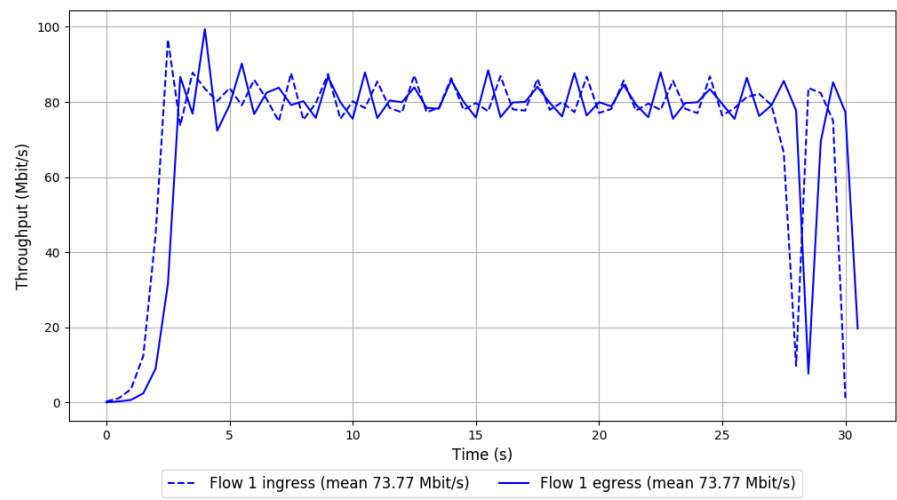
-- Flow 1:

Average throughput: 73.77 Mbit/s

95th percentile per-packet one-way delay: 135.717 ms

Loss rate: 0.00%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

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

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

Local clock offset: 0.02 ms

Remote clock offset: 0.03 ms

Below is generated by plot.py at 2018-06-19 09:28:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.00%

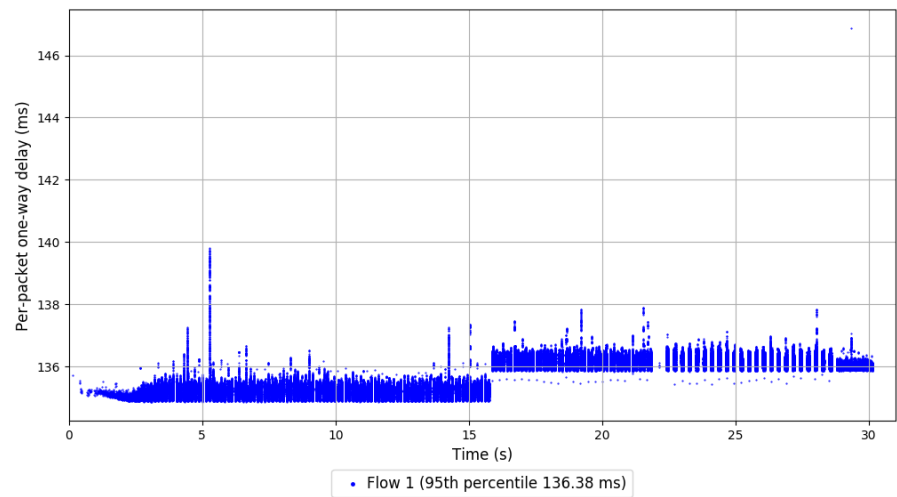
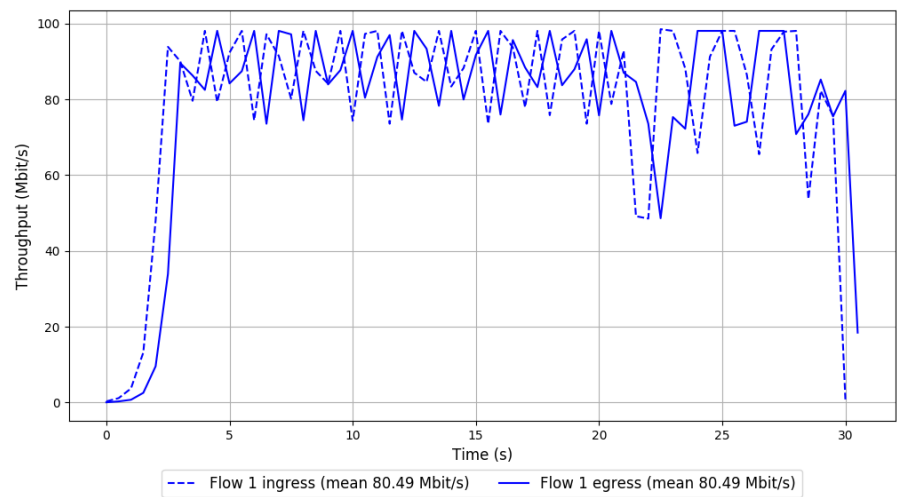
-- Flow 1:

Average throughput: 80.49 Mbit/s

95th percentile per-packet one-way delay: 136.383 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-06-19 06:38:44

End at: 2018-06-19 06:39:14

Local clock offset: 0.001 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-19 09:28:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 136.229 ms

Loss rate: 0.00%

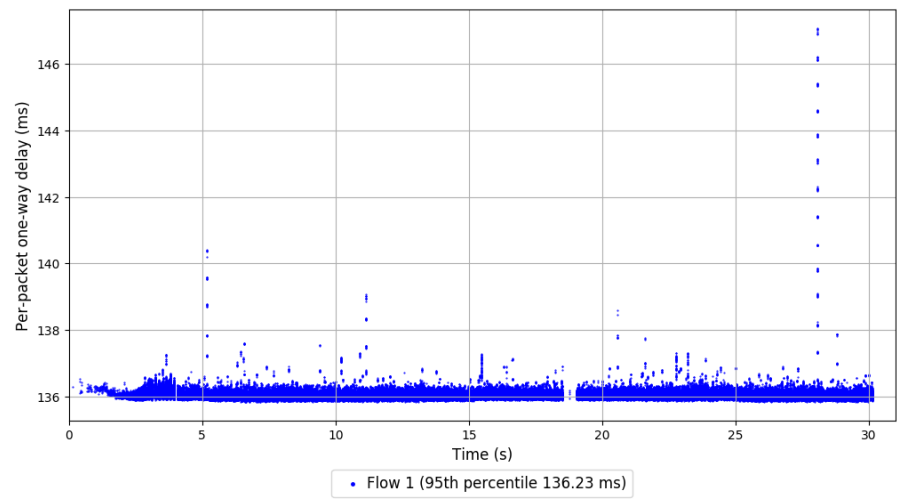
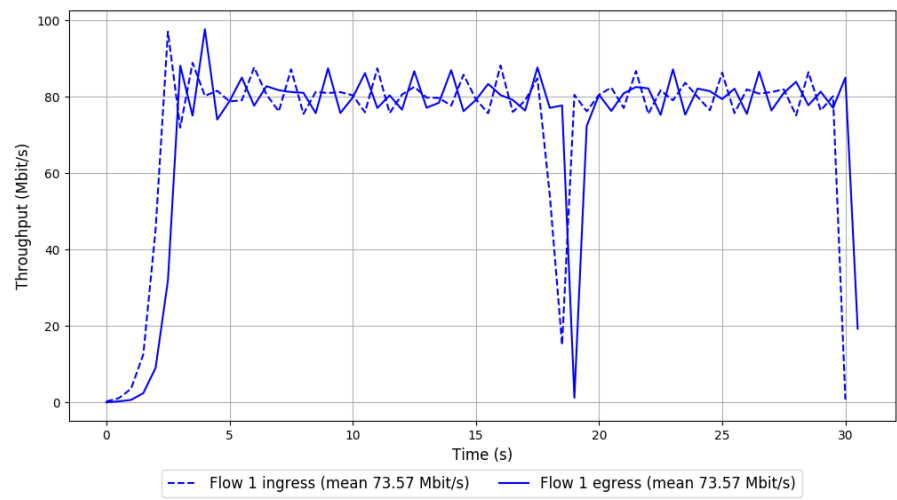
-- Flow 1:

Average throughput: 73.57 Mbit/s

95th percentile per-packet one-way delay: 136.229 ms

Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-06-19 07:00:12

End at: 2018-06-19 07:00:42

Local clock offset: 0.069 ms

Remote clock offset: -0.021 ms

Below is generated by plot.py at 2018-06-19 09:28:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.30 Mbit/s

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

Loss rate: 0.00%

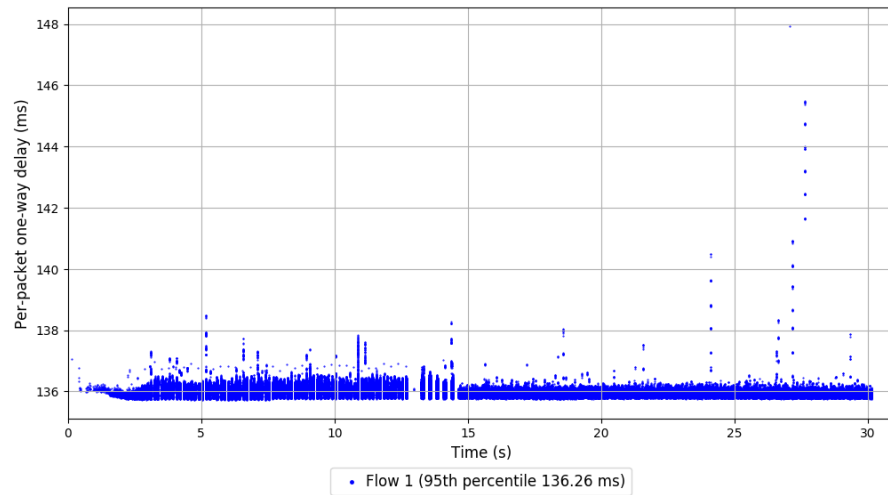
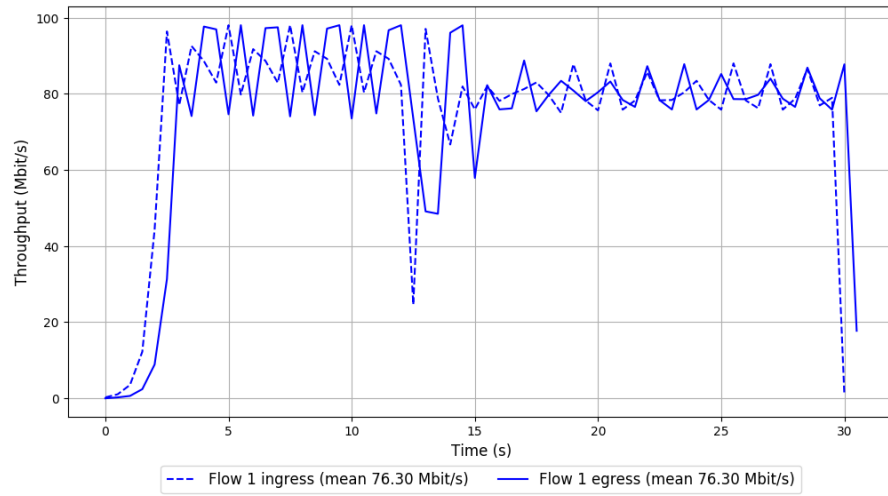
-- Flow 1:

Average throughput: 76.30 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-06-19 07:21:47

End at: 2018-06-19 07:22:17

Local clock offset: 0.058 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-06-19 09:28:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 136.386 ms

Loss rate: 0.00%

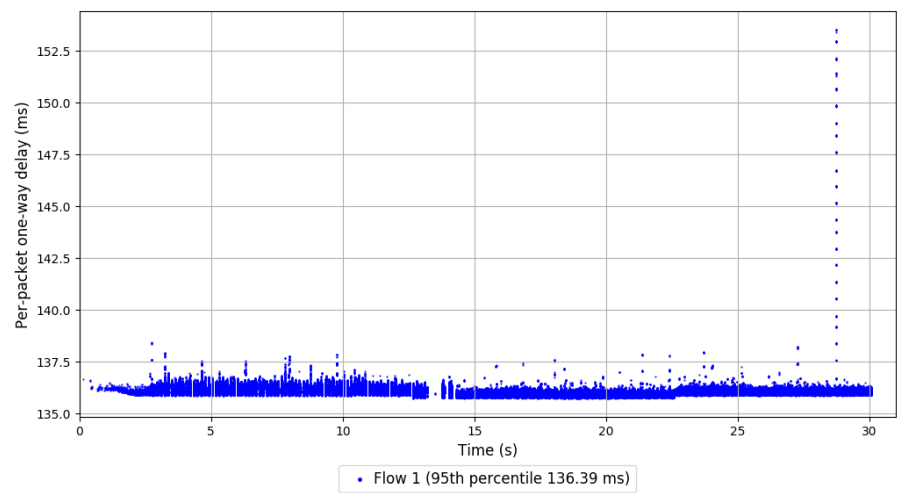
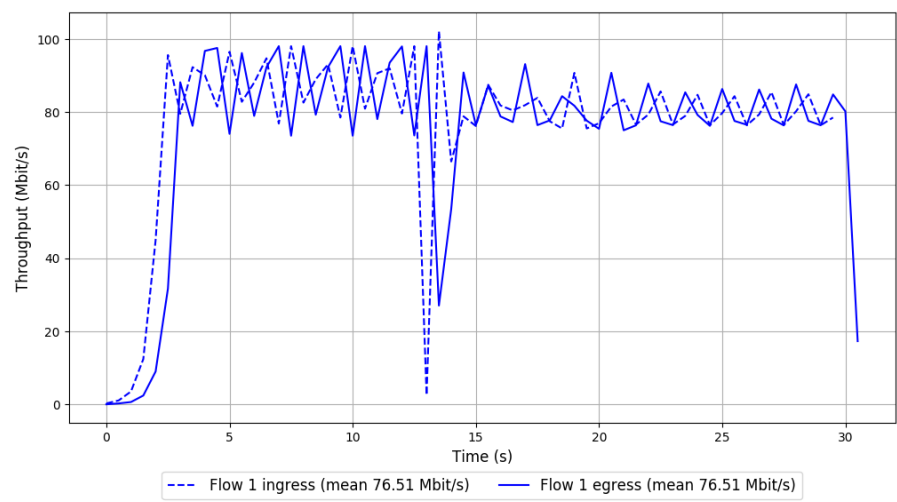
-- Flow 1:

Average throughput: 76.51 Mbit/s

95th percentile per-packet one-way delay: 136.386 ms

Loss rate: 0.00%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-06-19 07:43:28

End at: 2018-06-19 07:43:58

Local clock offset: 0.034 ms

Remote clock offset: 0.444 ms

Below is generated by plot.py at 2018-06-19 09:28:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 0.00%

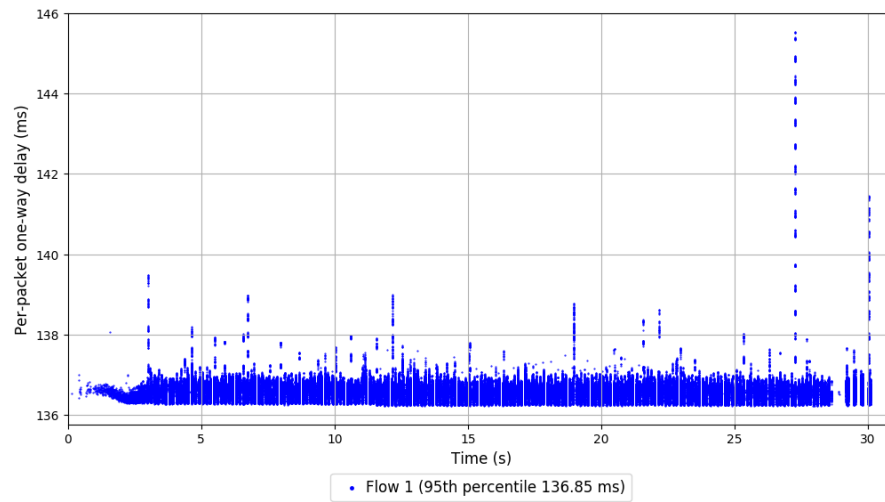
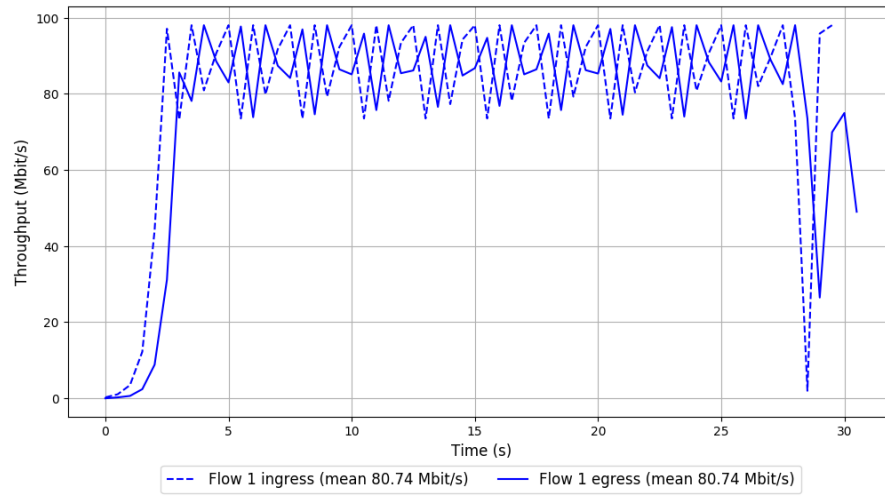
-- Flow 1:

Average throughput: 80.74 Mbit/s

95th percentile per-packet one-way delay: 136.855 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

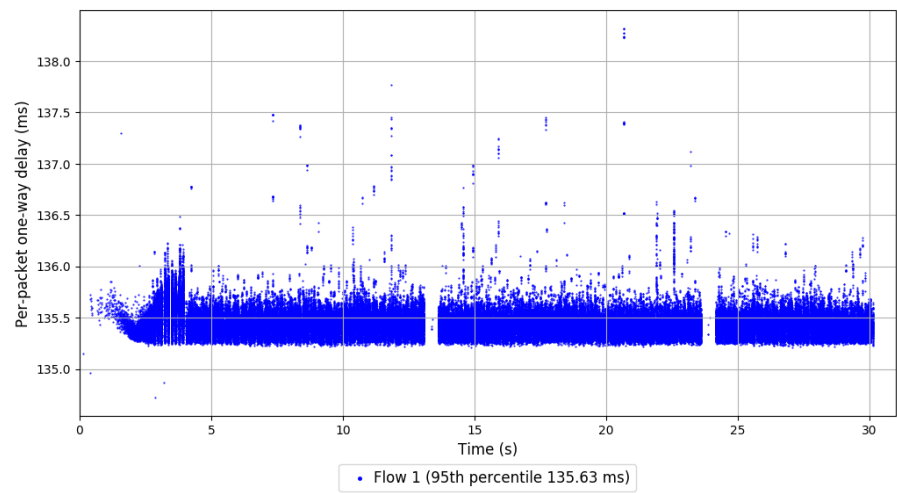
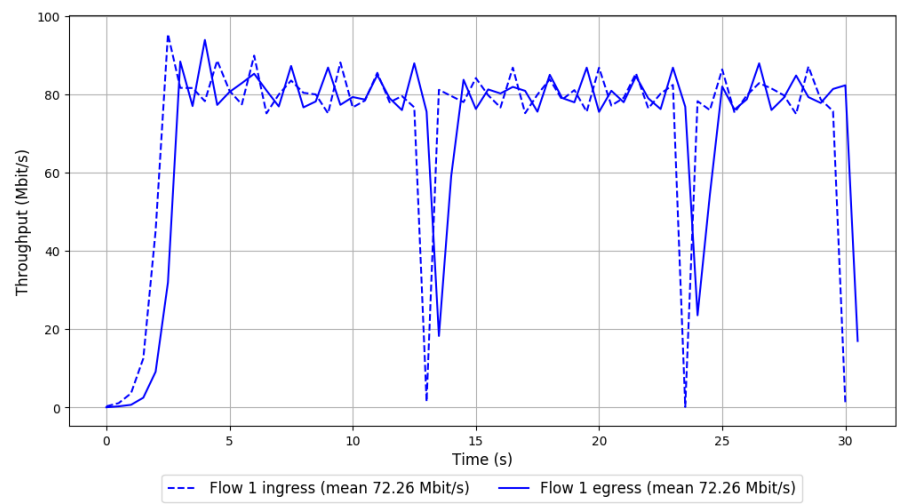


Run 7: Statistics of TCP BBR

Start at: 2018-06-19 08:04:49
End at: 2018-06-19 08:05:20
Local clock offset: 0.222 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-06-19 09:28:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 135.630 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 72.26 Mbit/s
95th percentile per-packet one-way delay: 135.630 ms
Loss rate: 0.01%

Run 7: Report of TCP BBR — Data Link

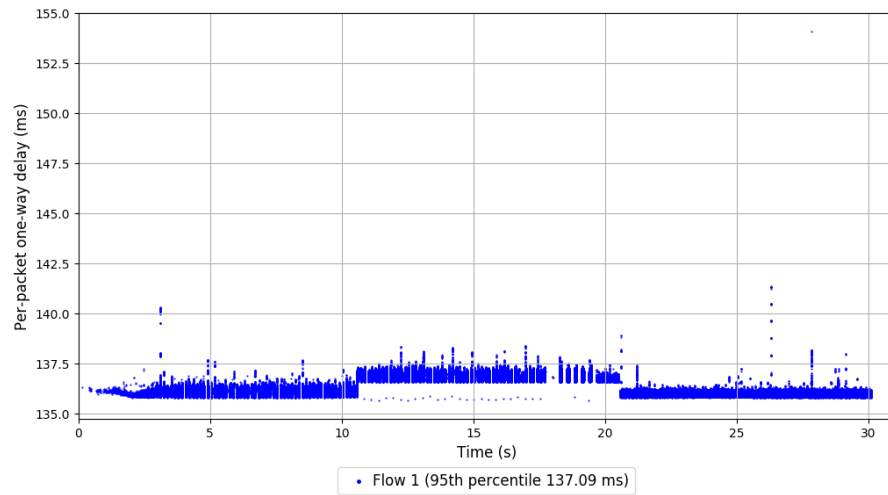
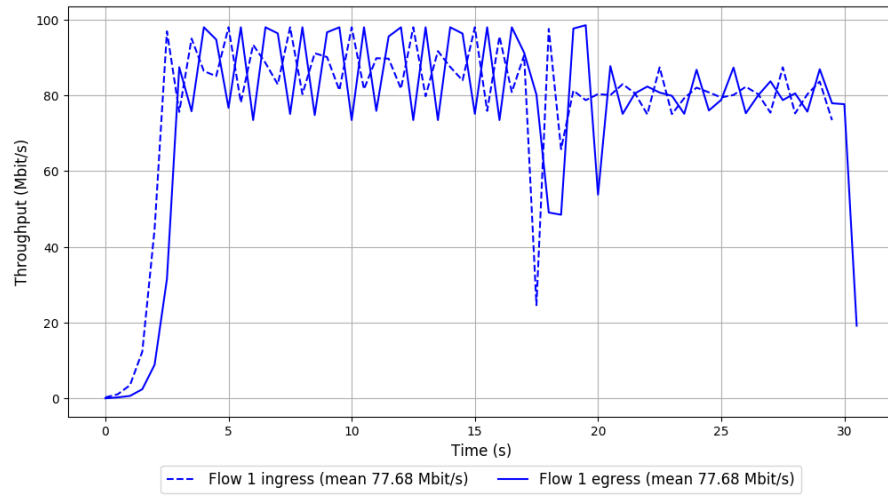


Run 8: Statistics of TCP BBR

Start at: 2018-06-19 08:25:59
End at: 2018-06-19 08:26:29
Local clock offset: -0.001 ms
Remote clock offset: -0.079 ms

Below is generated by plot.py at 2018-06-19 09:28:46
Datalink statistics
-- Total of 1 flow:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 77.68 Mbit/s
95th percentile per-packet one-way delay: 137.095 ms
Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

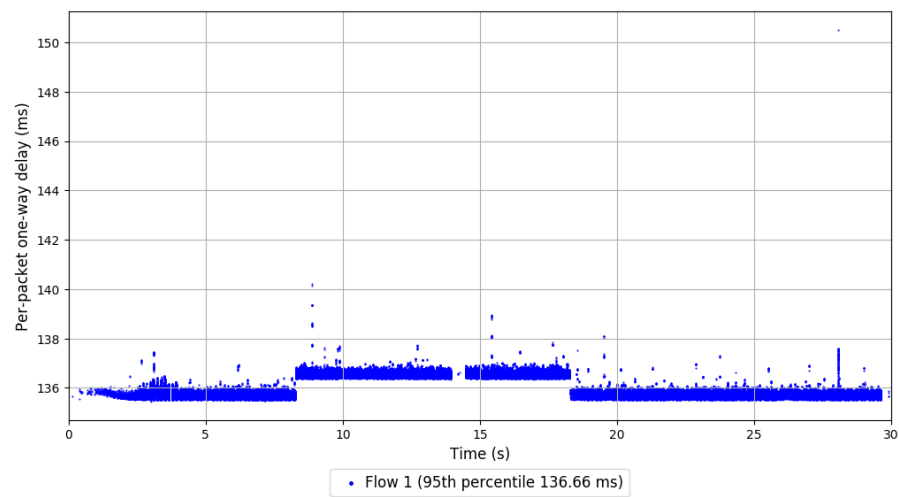
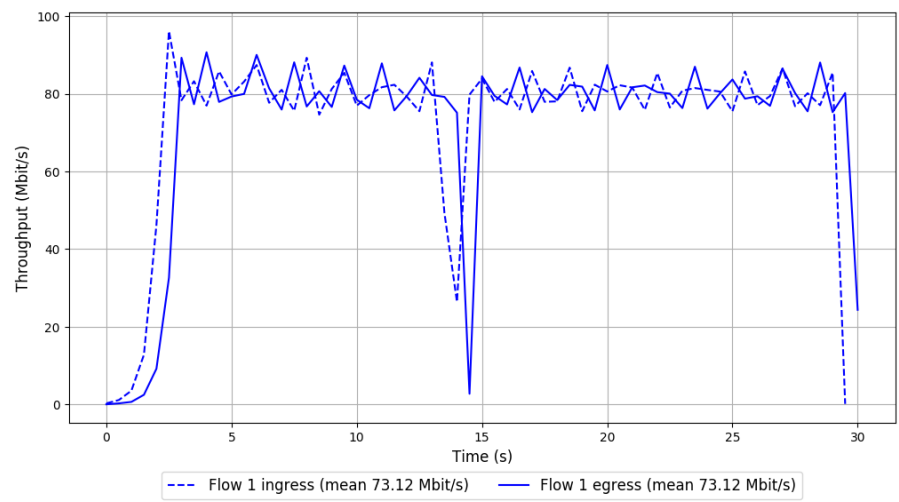


Run 9: Statistics of TCP BBR

Start at: 2018-06-19 08:47:31
End at: 2018-06-19 08:48:01
Local clock offset: -0.16 ms
Remote clock offset: -0.473 ms

Below is generated by plot.py at 2018-06-19 09:29:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 136.665 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 73.12 Mbit/s
95th percentile per-packet one-way delay: 136.665 ms
Loss rate: 0.00%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-06-19 09:08:47

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

Local clock offset: -0.049 ms

Remote clock offset: 0.299 ms

Below is generated by plot.py at 2018-06-19 09:29:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.48 Mbit/s

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

Loss rate: 0.00%

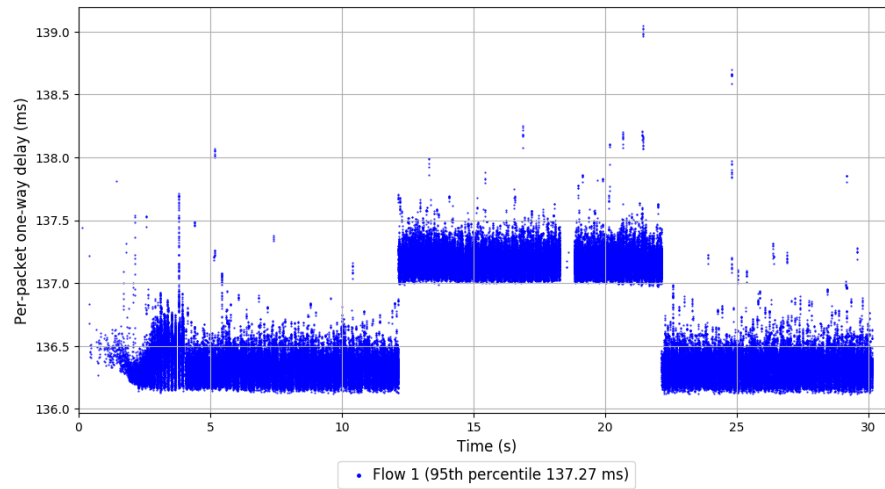
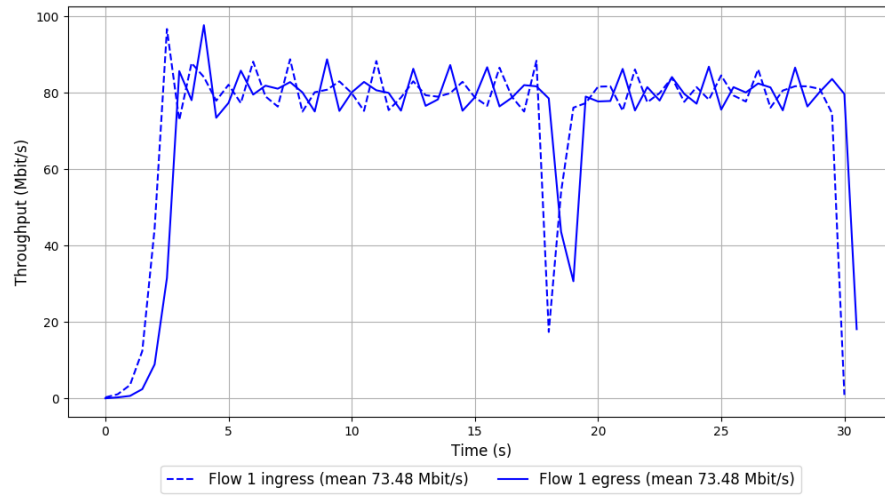
-- Flow 1:

Average throughput: 73.48 Mbit/s

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

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-06-19 06:04:31

End at: 2018-06-19 06:05:01

Local clock offset: -0.112 ms

Remote clock offset: 0.072 ms

Below is generated by plot.py at 2018-06-19 09:36:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.56 Mbit/s

95th percentile per-packet one-way delay: 170.409 ms

Loss rate: 0.41%

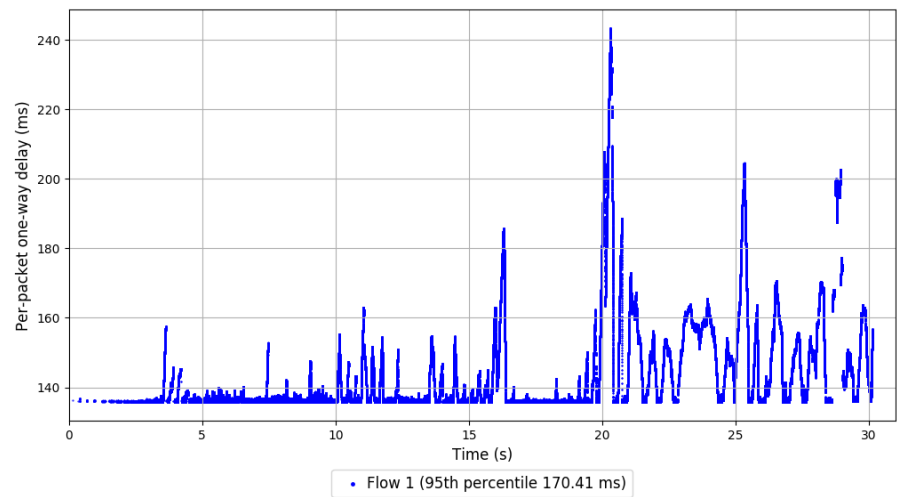
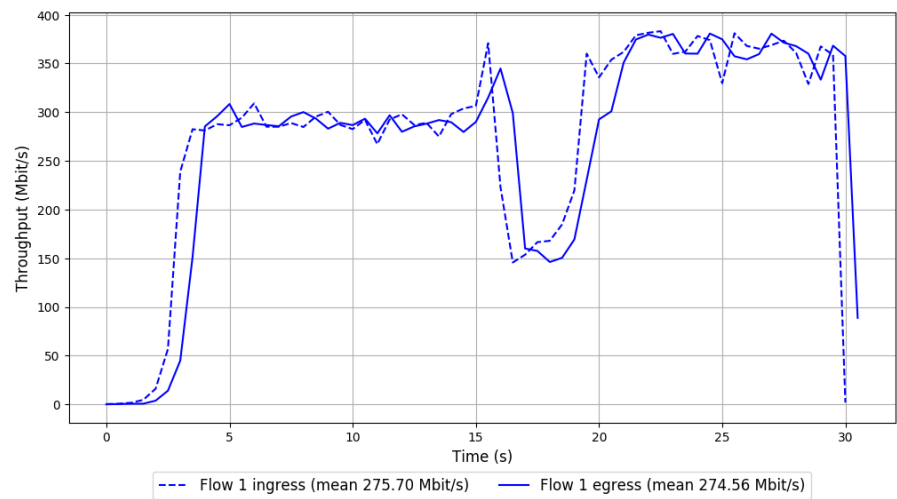
-- Flow 1:

Average throughput: 274.56 Mbit/s

95th percentile per-packet one-way delay: 170.409 ms

Loss rate: 0.41%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-06-19 06:25:41

End at: 2018-06-19 06:26:11

Local clock offset: 0.051 ms

Remote clock offset: 0.385 ms

Below is generated by plot.py at 2018-06-19 09:36:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 248.46 Mbit/s

95th percentile per-packet one-way delay: 156.120 ms

Loss rate: 0.00%

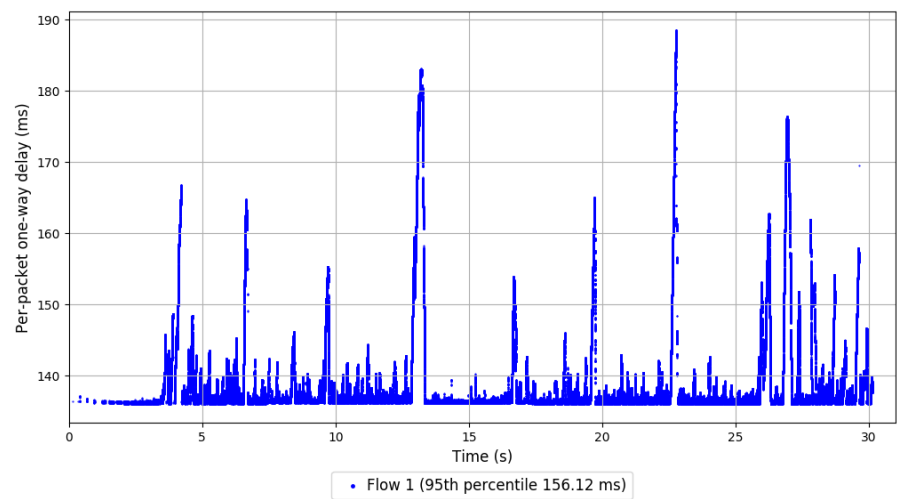
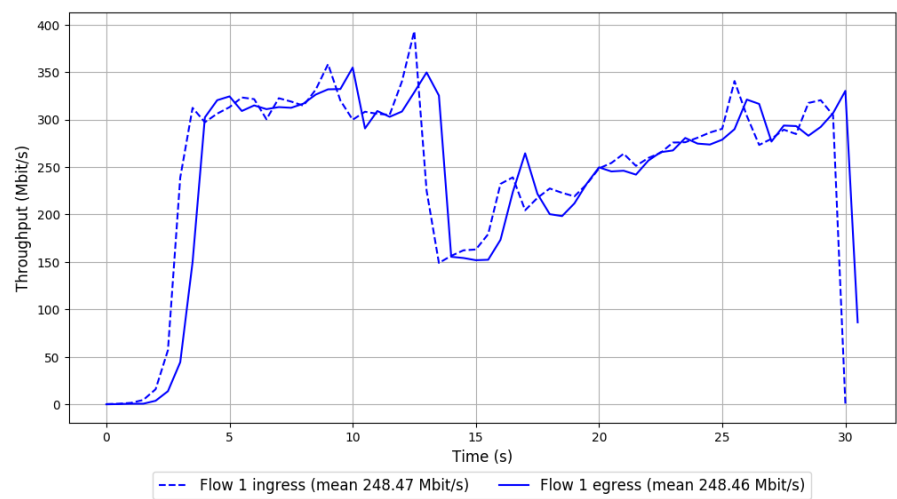
-- Flow 1:

Average throughput: 248.46 Mbit/s

95th percentile per-packet one-way delay: 156.120 ms

Loss rate: 0.00%

Run 2: Report of Copa — Data Link

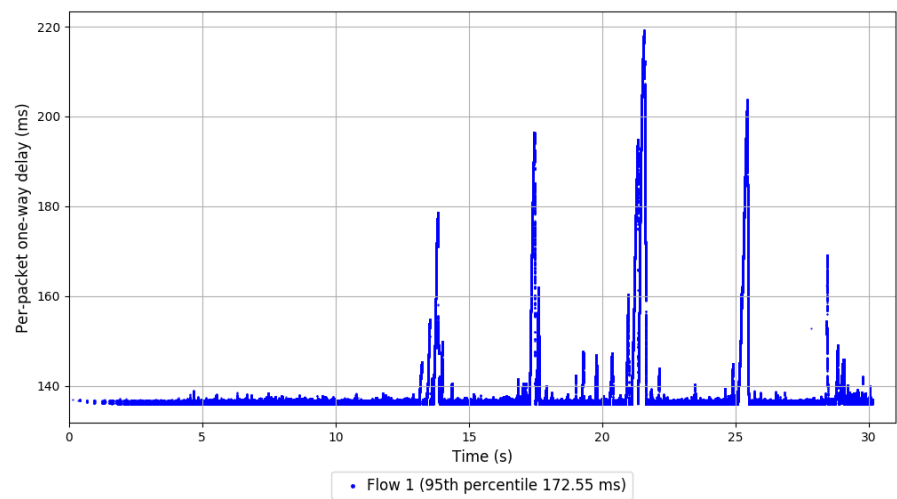
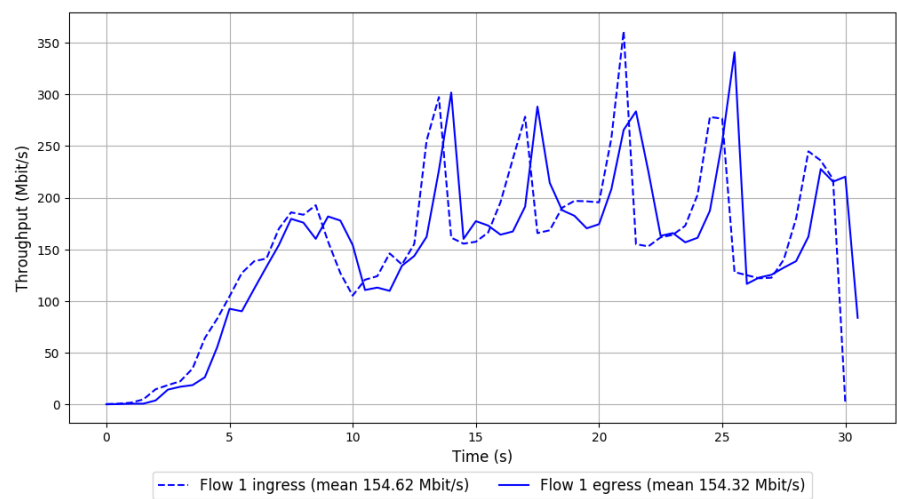


Run 3: Statistics of Copa

Start at: 2018-06-19 06:47:22
End at: 2018-06-19 06:47:52
Local clock offset: -0.096 ms
Remote clock offset: 0.035 ms

Below is generated by plot.py at 2018-06-19 09:36:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 154.32 Mbit/s
95th percentile per-packet one-way delay: 172.552 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 154.32 Mbit/s
95th percentile per-packet one-way delay: 172.552 ms
Loss rate: 0.19%

Run 3: Report of Copa — Data Link

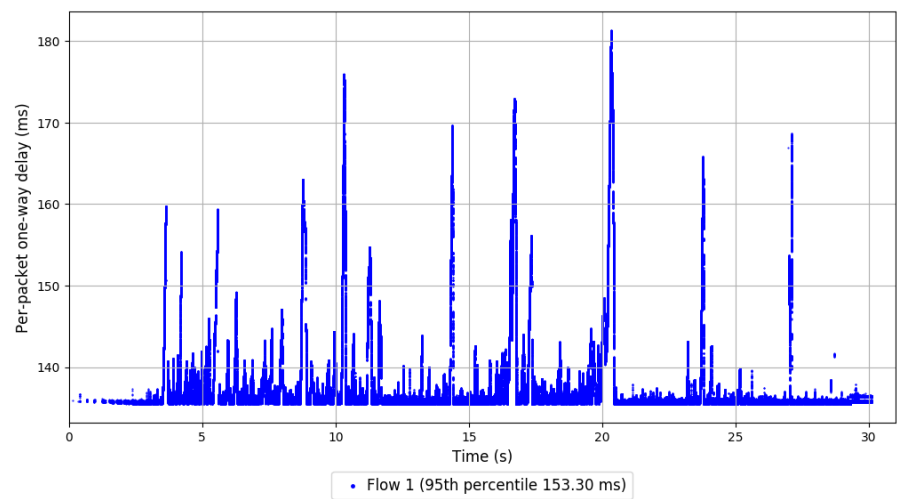
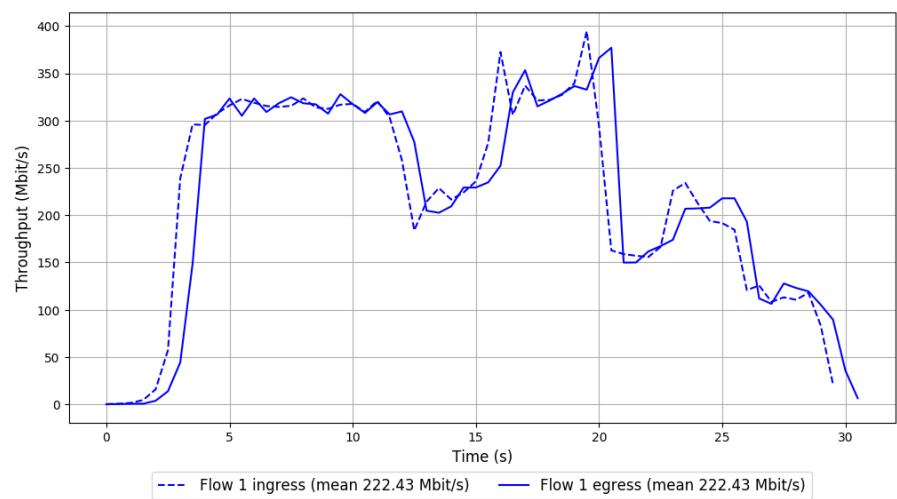


Run 4: Statistics of Copa

Start at: 2018-06-19 07:08:50
End at: 2018-06-19 07:09:20
Local clock offset: -0.008 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-19 09:36:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 222.43 Mbit/s
95th percentile per-packet one-way delay: 153.296 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 222.43 Mbit/s
95th percentile per-packet one-way delay: 153.296 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

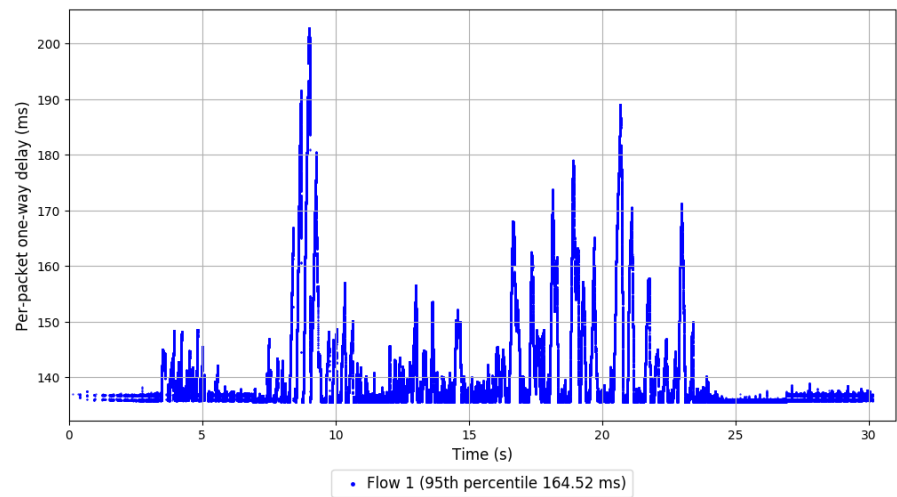
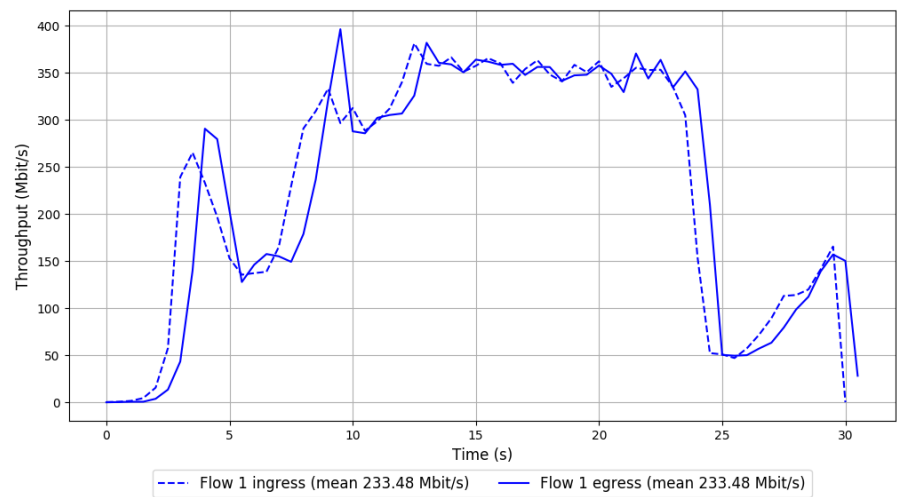


Run 5: Statistics of Copa

Start at: 2018-06-19 07:30:33
End at: 2018-06-19 07:31:03
Local clock offset: -0.062 ms
Remote clock offset: -0.026 ms

Below is generated by plot.py at 2018-06-19 09:36:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 233.48 Mbit/s
95th percentile per-packet one-way delay: 164.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 233.48 Mbit/s
95th percentile per-packet one-way delay: 164.520 ms
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

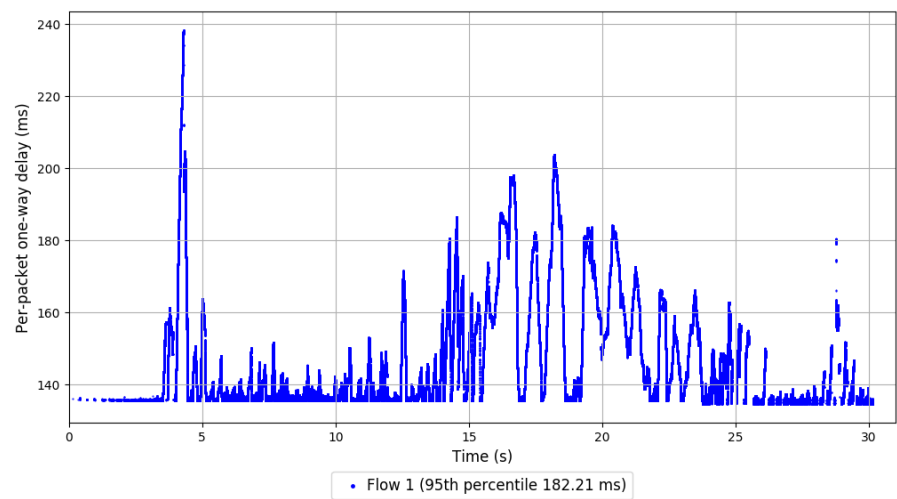
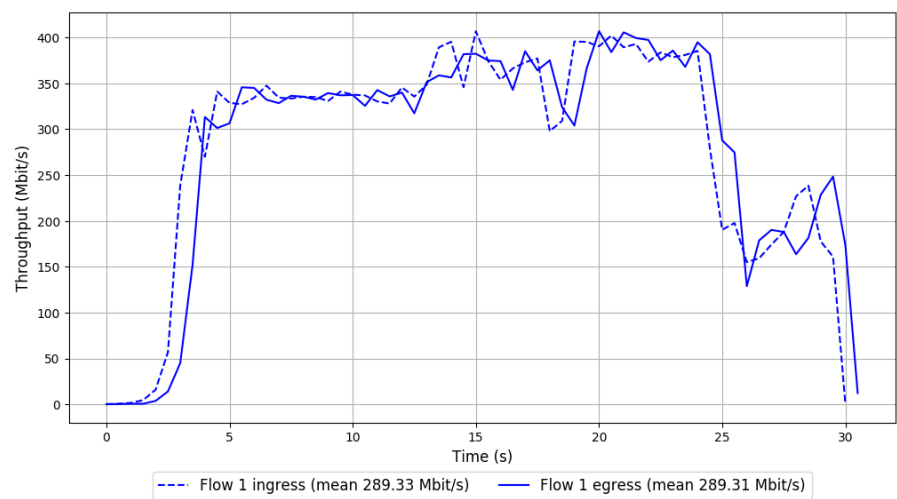


Run 6: Statistics of Copa

Start at: 2018-06-19 07:52:06
End at: 2018-06-19 07:52:36
Local clock offset: -0.014 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-06-19 09:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.31 Mbit/s
95th percentile per-packet one-way delay: 182.213 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 289.31 Mbit/s
95th percentile per-packet one-way delay: 182.213 ms
Loss rate: 0.01%

Run 6: Report of Copa — Data Link

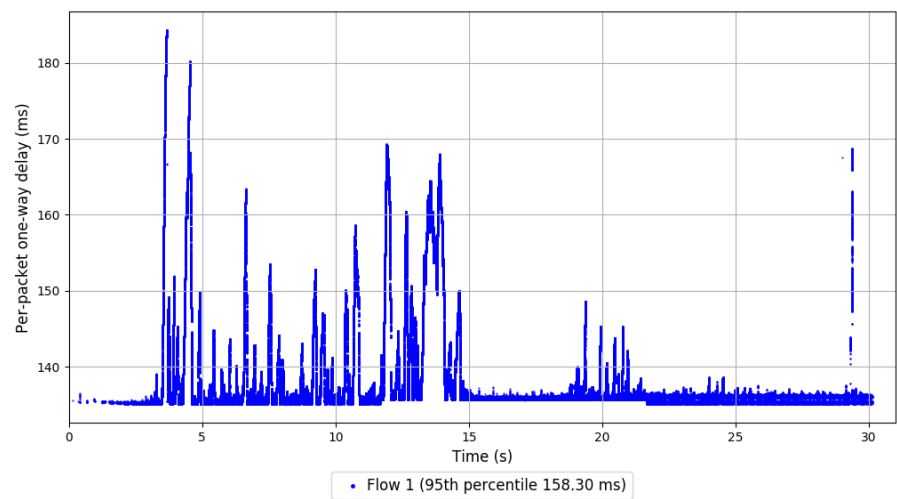
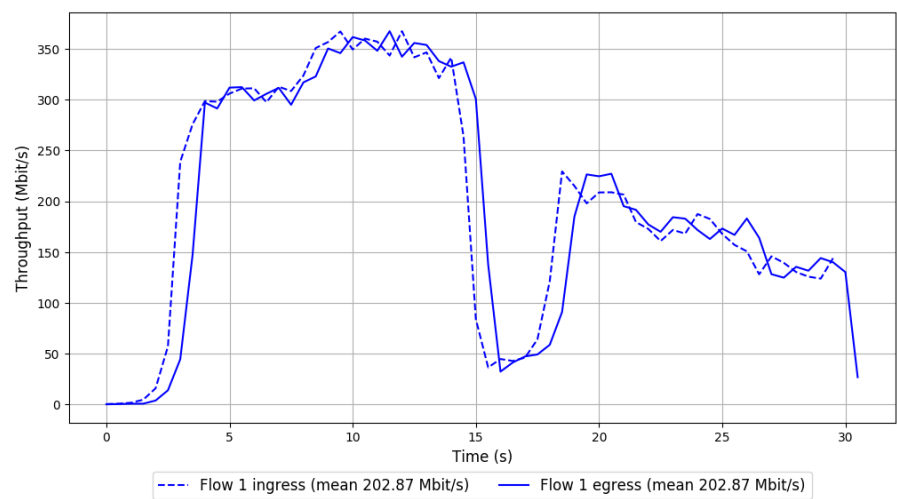


Run 7: Statistics of Copa

Start at: 2018-06-19 08:13:08
End at: 2018-06-19 08:13:38
Local clock offset: 0.352 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-06-19 09:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 202.87 Mbit/s
95th percentile per-packet one-way delay: 158.301 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 202.87 Mbit/s
95th percentile per-packet one-way delay: 158.301 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link

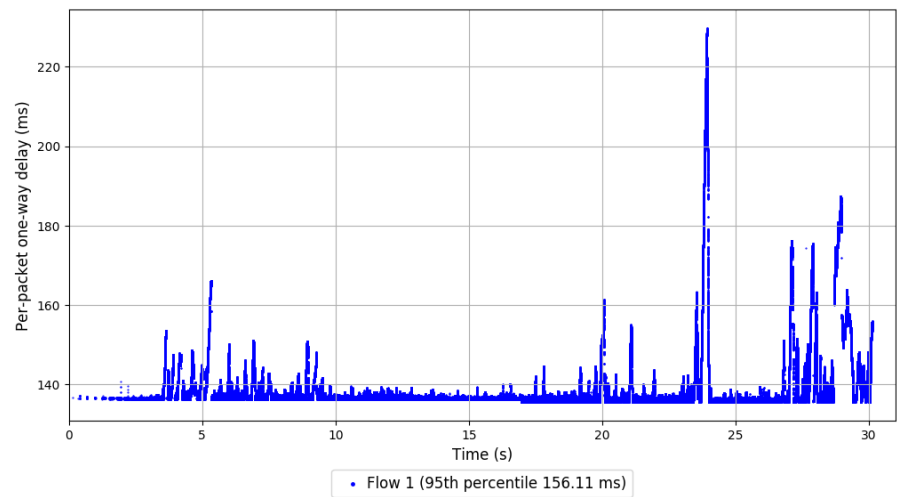
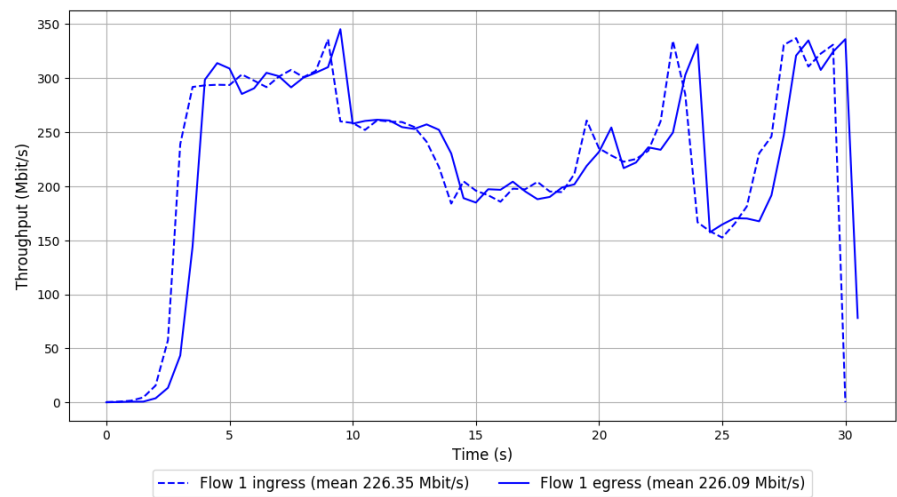


Run 8: Statistics of Copa

Start at: 2018-06-19 08:34:43
End at: 2018-06-19 08:35:13
Local clock offset: 0.115 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-06-19 09:37:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 226.09 Mbit/s
95th percentile per-packet one-way delay: 156.111 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 226.09 Mbit/s
95th percentile per-packet one-way delay: 156.111 ms
Loss rate: 0.12%

Run 8: Report of Copa — Data Link

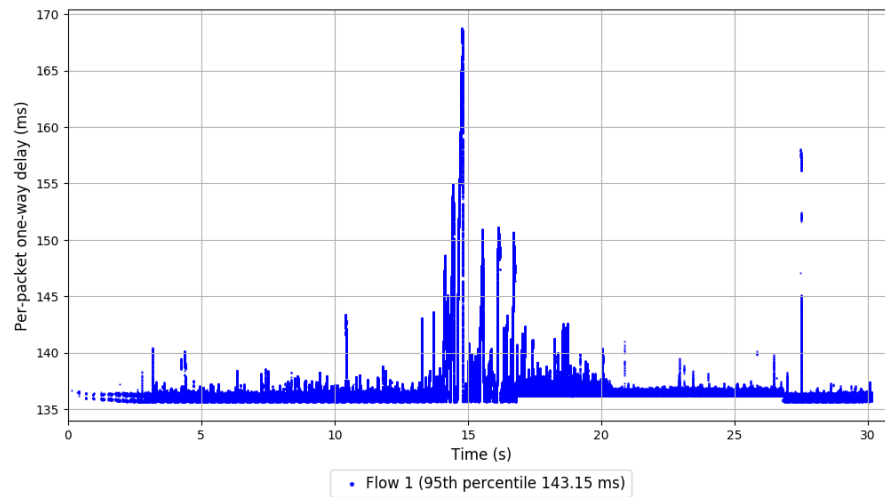
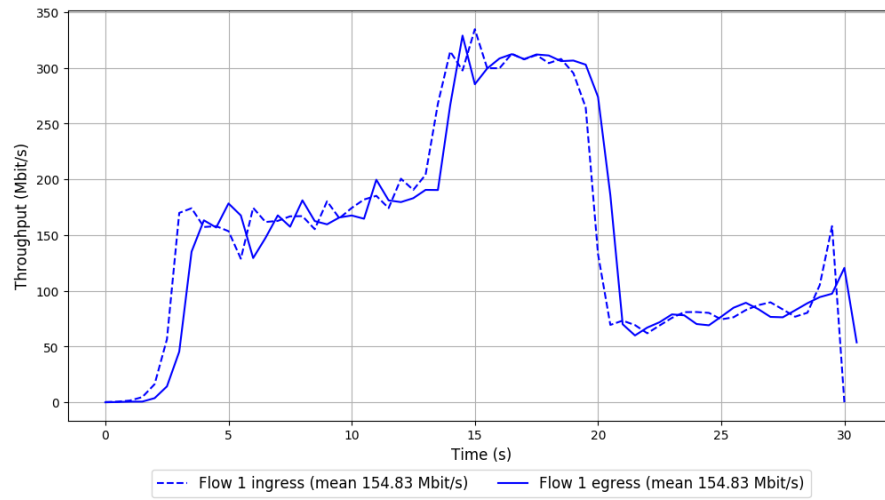


Run 9: Statistics of Copa

Start at: 2018-06-19 08:56:03
End at: 2018-06-19 08:56:33
Local clock offset: 0.076 ms
Remote clock offset: -0.065 ms

Below is generated by plot.py at 2018-06-19 09:38:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 154.83 Mbit/s
95th percentile per-packet one-way delay: 143.152 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 154.83 Mbit/s
95th percentile per-packet one-way delay: 143.152 ms
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

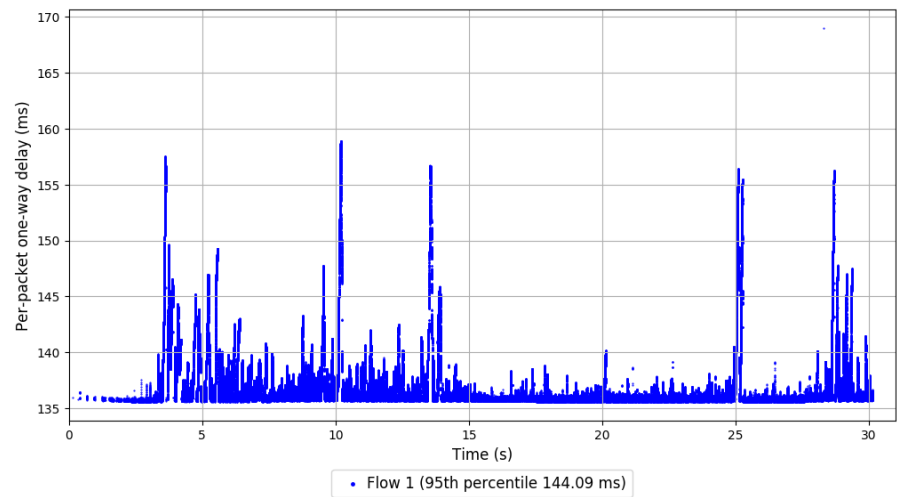
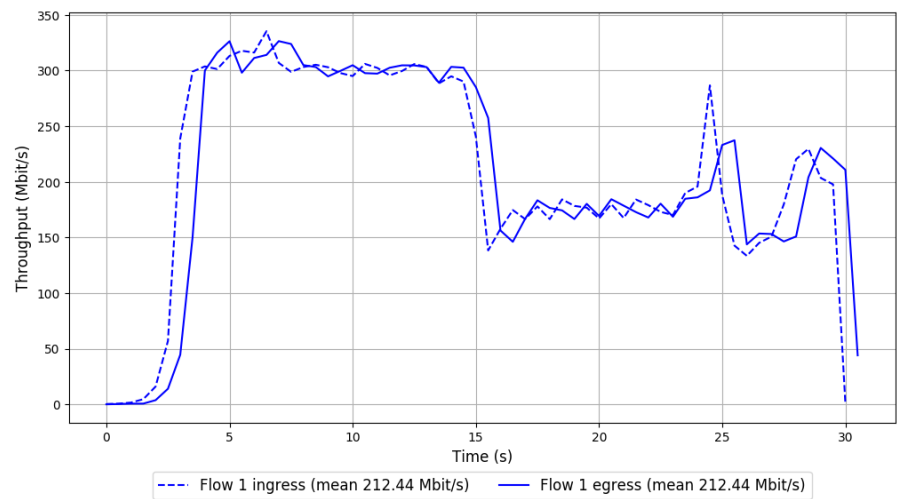


Run 10: Statistics of Copa

Start at: 2018-06-19 09:17:31
End at: 2018-06-19 09:18:01
Local clock offset: 0.047 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-19 09:40:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.44 Mbit/s
95th percentile per-packet one-way delay: 144.085 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 212.44 Mbit/s
95th percentile per-packet one-way delay: 144.085 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-19 05:44:39

End at: 2018-06-19 05:45:09

Local clock offset: -0.038 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 146.477 ms

Loss rate: 0.00%

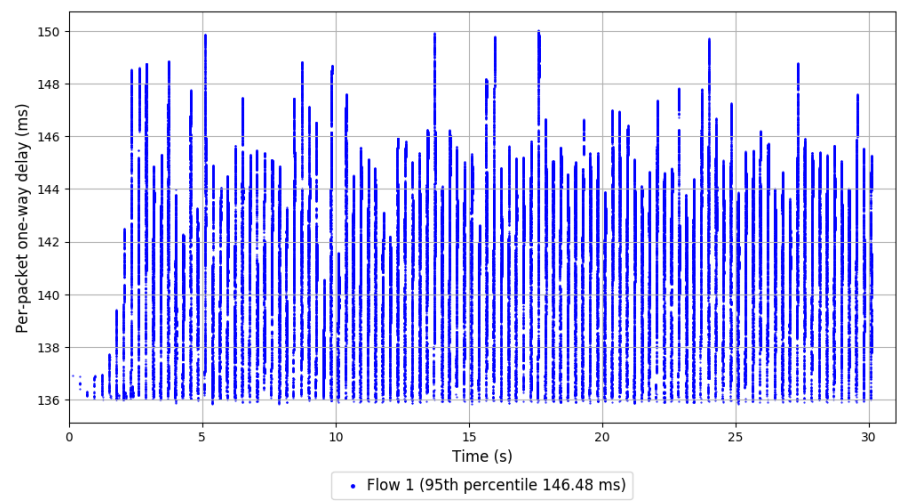
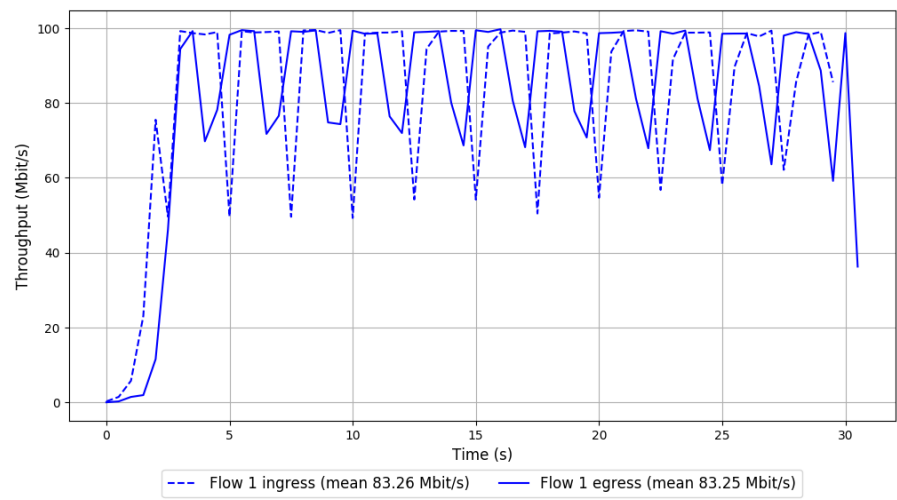
-- Flow 1:

Average throughput: 83.25 Mbit/s

95th percentile per-packet one-way delay: 146.477 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

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

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

Local clock offset: -0.1 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 146.583 ms

Loss rate: 0.00%

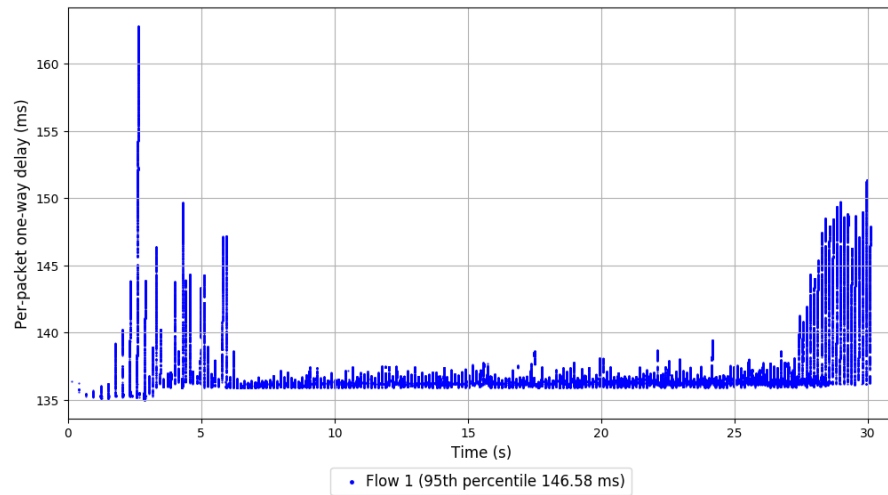
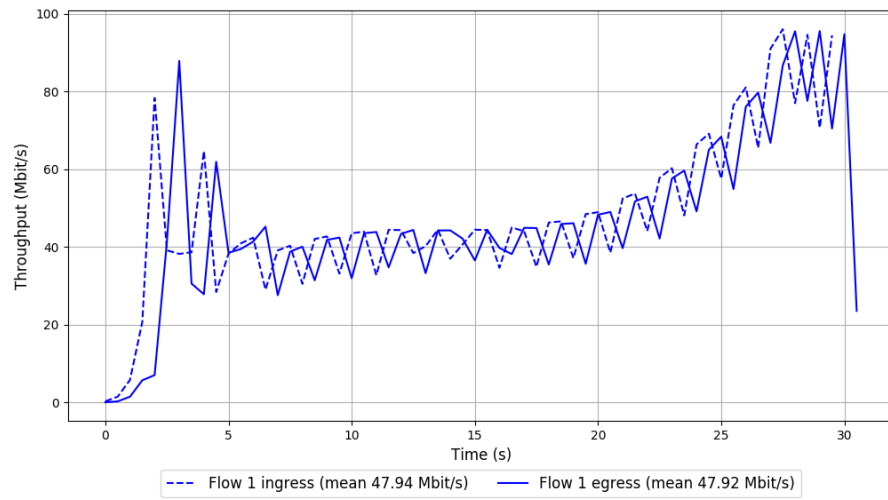
-- Flow 1:

Average throughput: 47.92 Mbit/s

95th percentile per-packet one-way delay: 146.583 ms

Loss rate: 0.00%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-06-19 06:27:15

End at: 2018-06-19 06:27:45

Local clock offset: 0.157 ms

Remote clock offset: 0.455 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 145.503 ms

Loss rate: 0.00%

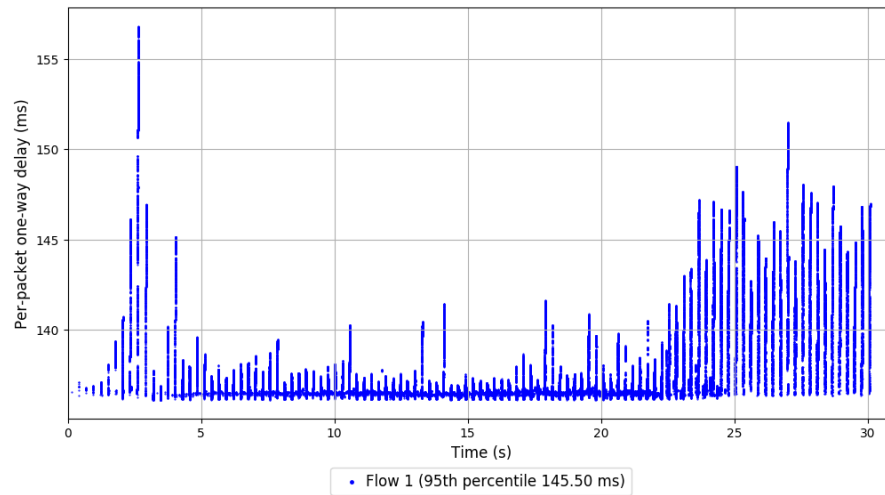
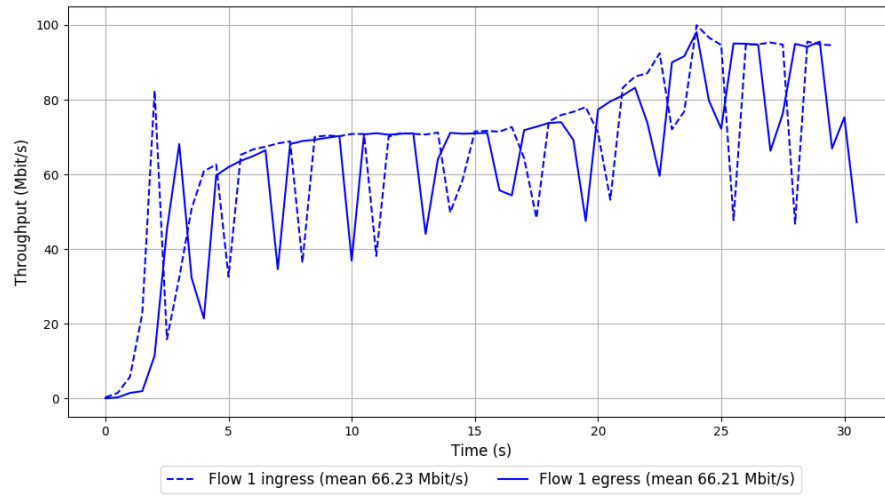
-- Flow 1:

Average throughput: 66.21 Mbit/s

95th percentile per-packet one-way delay: 145.503 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-06-19 06:48:47

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

Local clock offset: 0.297 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 145.293 ms

Loss rate: 0.00%

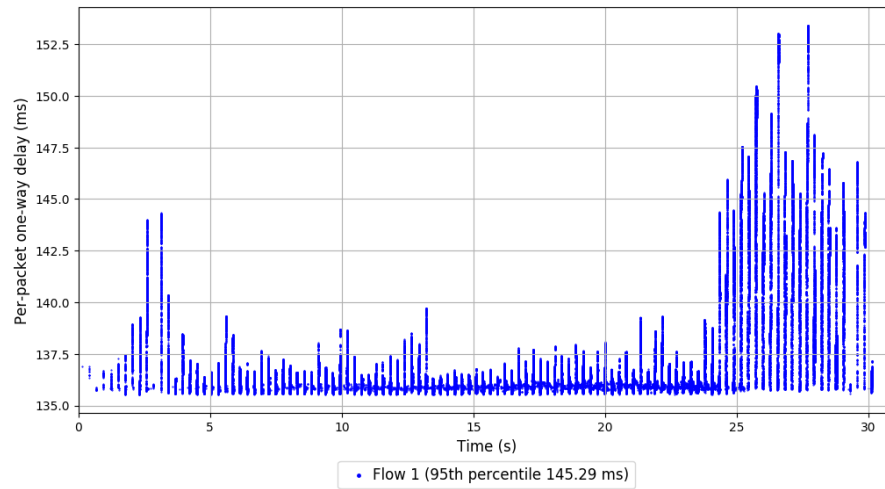
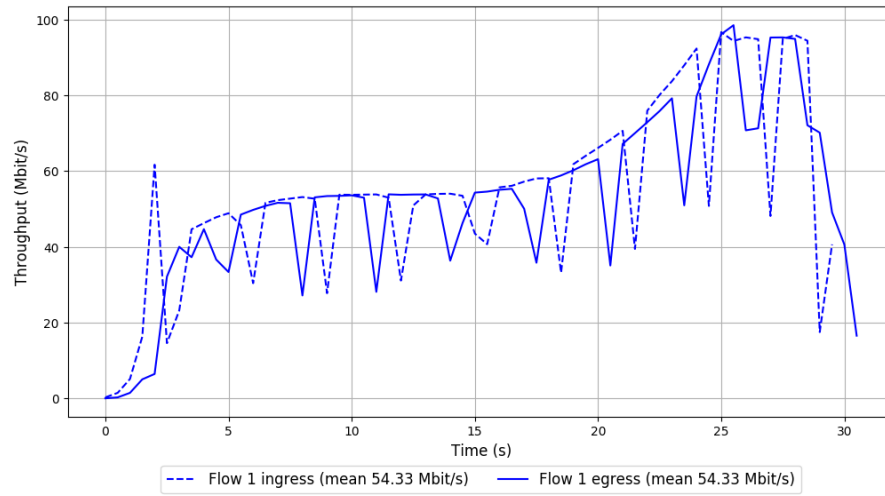
-- Flow 1:

Average throughput: 54.33 Mbit/s

95th percentile per-packet one-way delay: 145.293 ms

Loss rate: 0.00%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-06-19 07:10:22

End at: 2018-06-19 07:10:52

Local clock offset: 0.304 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 143.025 ms

Loss rate: 0.00%

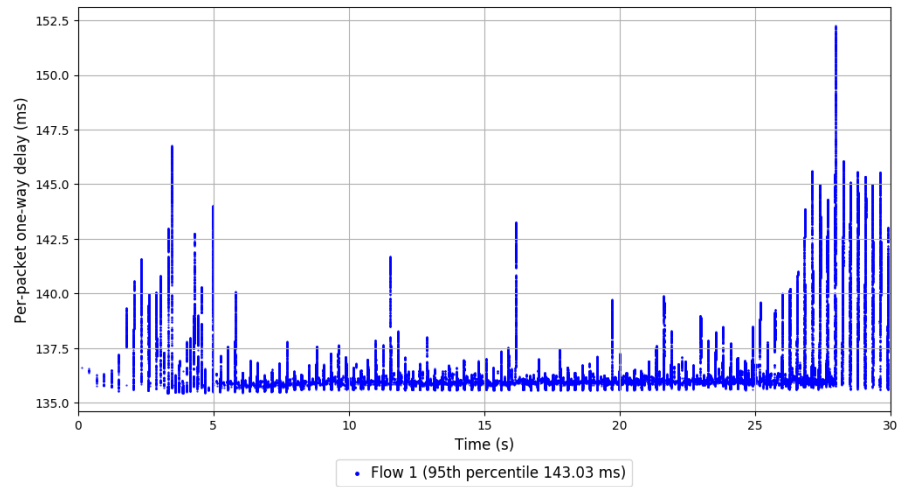
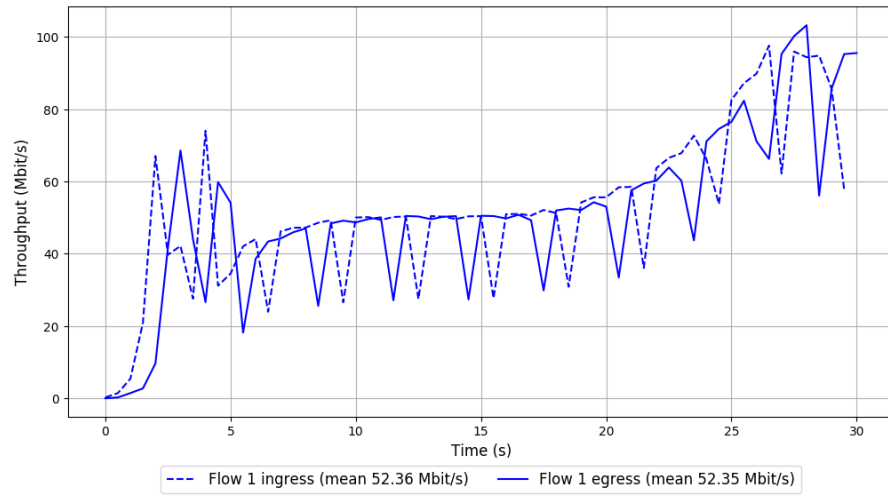
-- Flow 1:

Average throughput: 52.35 Mbit/s

95th percentile per-packet one-way delay: 143.025 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-06-19 07:32:04

End at: 2018-06-19 07:32:34

Local clock offset: 0.047 ms

Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 146.980 ms

Loss rate: 0.09%

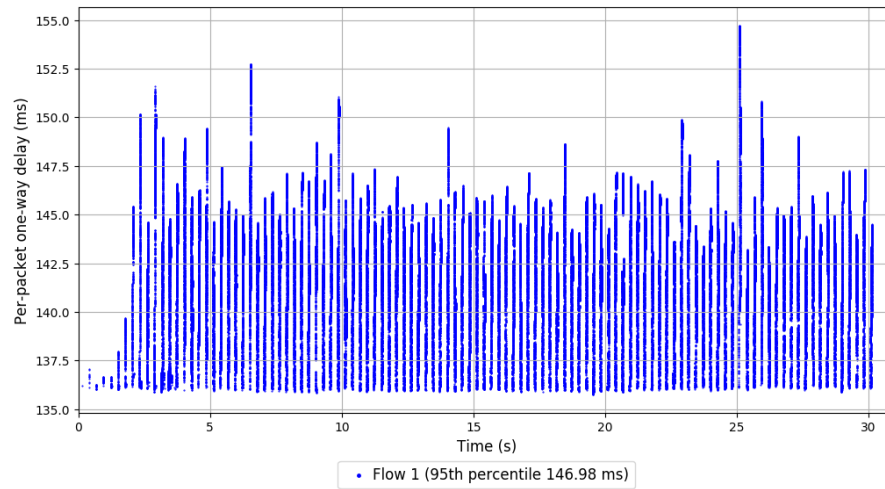
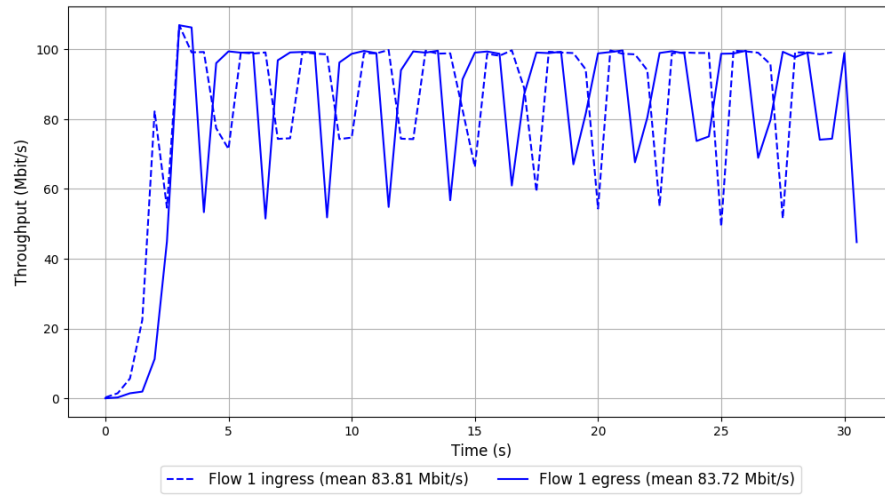
-- Flow 1:

Average throughput: 83.72 Mbit/s

95th percentile per-packet one-way delay: 146.980 ms

Loss rate: 0.09%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-19 07:53:43

End at: 2018-06-19 07:54:13

Local clock offset: 0.22 ms

Remote clock offset: 0.357 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 146.498 ms

Loss rate: 0.00%

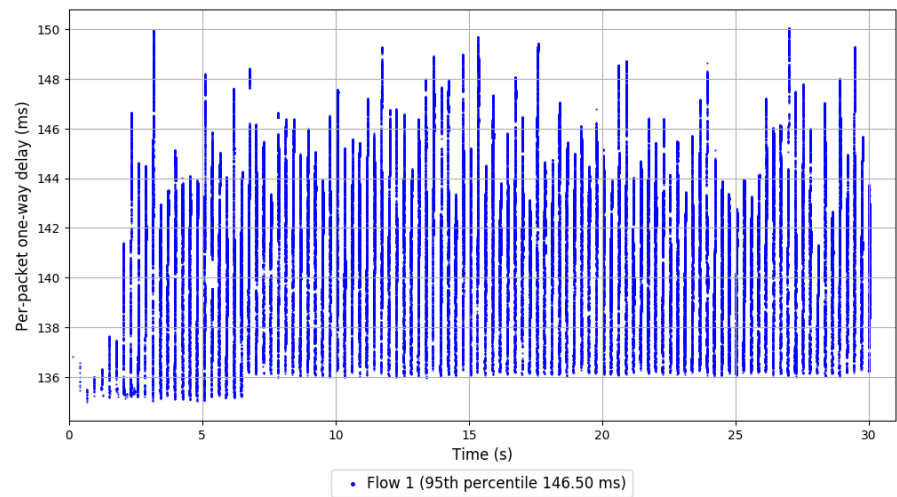
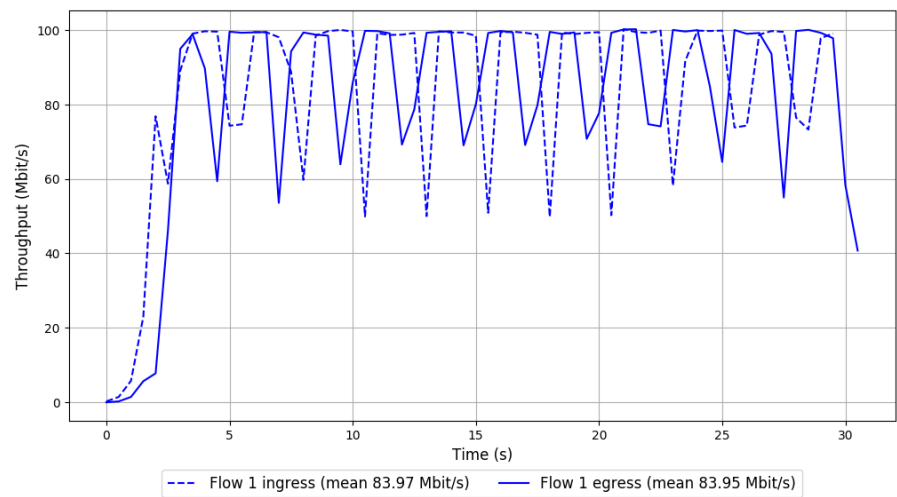
-- Flow 1:

Average throughput: 83.95 Mbit/s

95th percentile per-packet one-way delay: 146.498 ms

Loss rate: 0.00%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-06-19 08:14:37

End at: 2018-06-19 08:15:07

Local clock offset: -0.107 ms

Remote clock offset: 0.344 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 145.432 ms

Loss rate: 0.00%

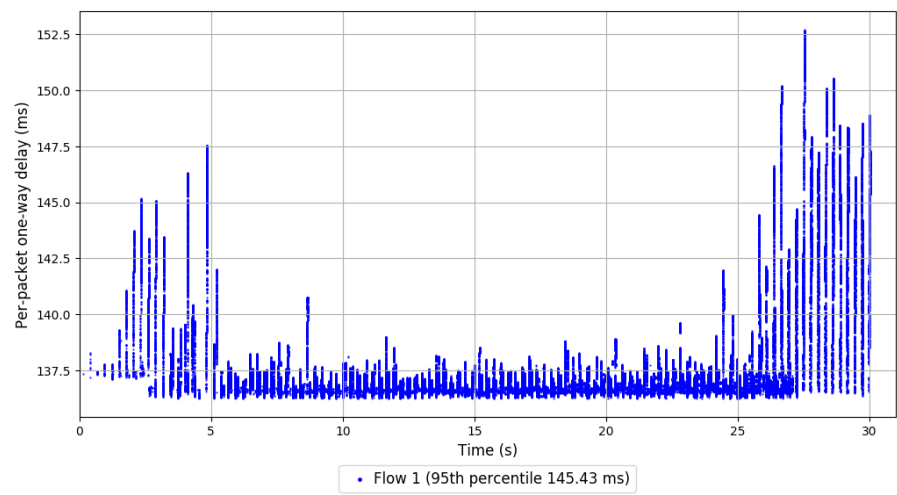
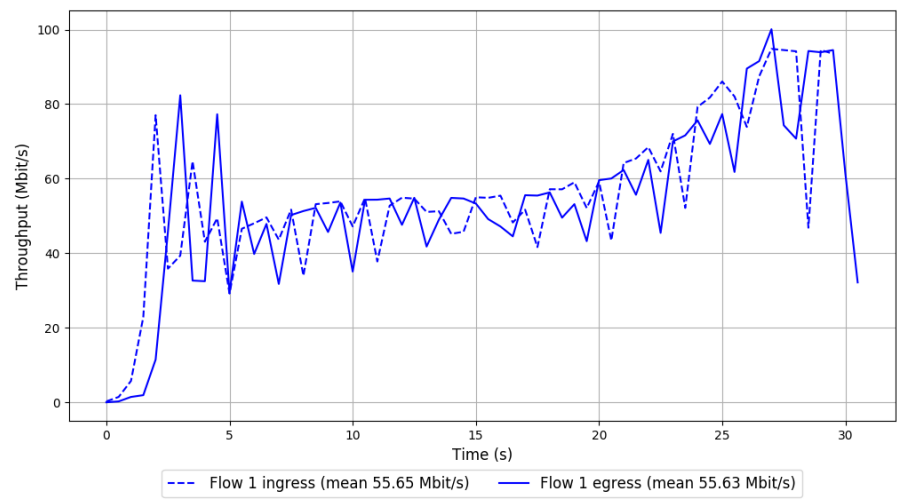
-- Flow 1:

Average throughput: 55.63 Mbit/s

95th percentile per-packet one-way delay: 145.432 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-06-19 08:36:14

End at: 2018-06-19 08:36:44

Local clock offset: 0.111 ms

Remote clock offset: 0.301 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 44.89 Mbit/s

95th percentile per-packet one-way delay: 146.016 ms

Loss rate: 0.00%

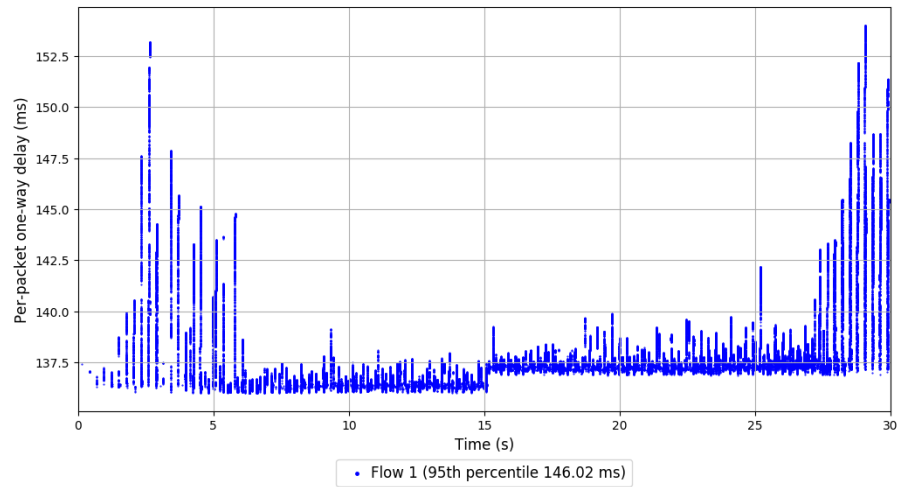
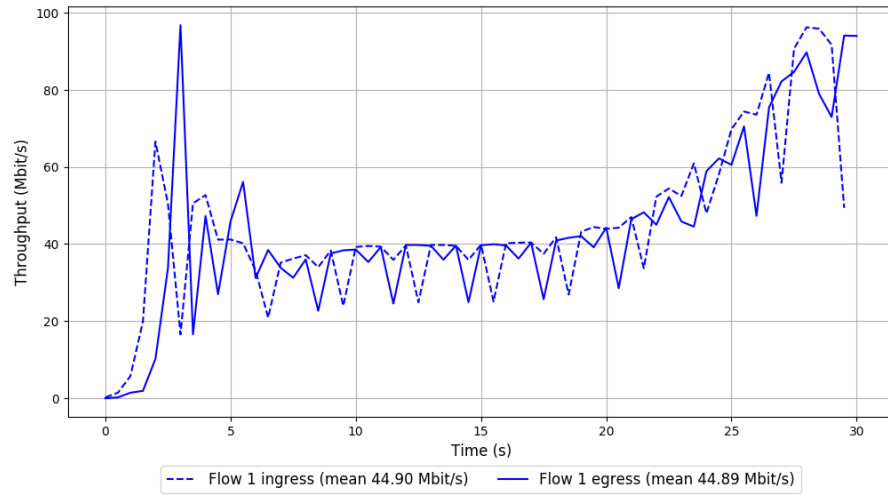
-- Flow 1:

Average throughput: 44.89 Mbit/s

95th percentile per-packet one-way delay: 146.016 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-06-19 08:57:28

End at: 2018-06-19 08:57:58

Local clock offset: -0.032 ms

Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-19 09:40:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 144.949 ms

Loss rate: 0.00%

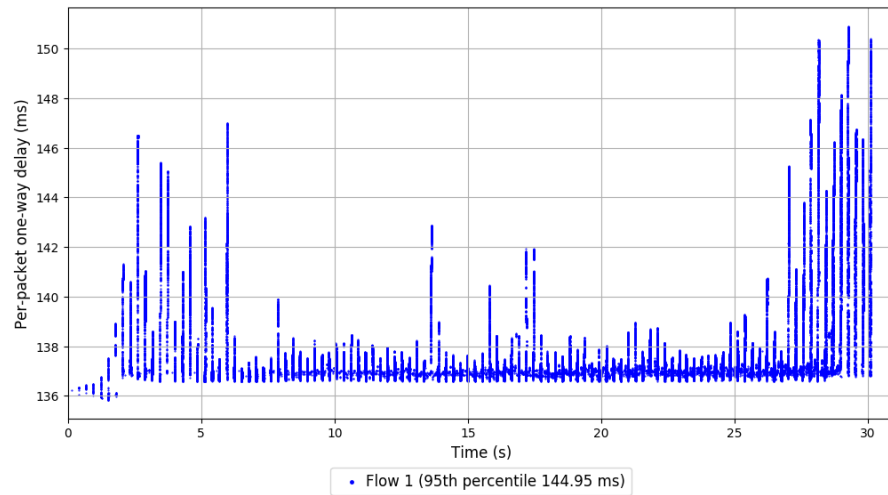
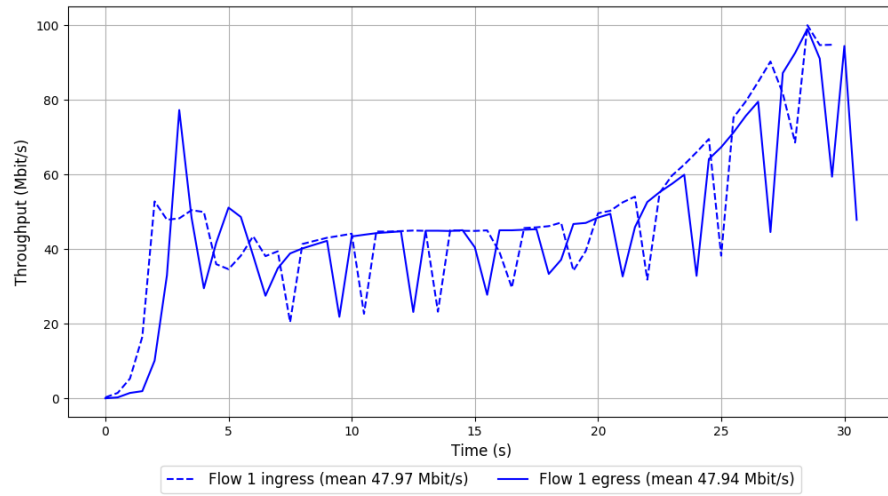
-- Flow 1:

Average throughput: 47.94 Mbit/s

95th percentile per-packet one-way delay: 144.949 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-06-19 05:45:53

End at: 2018-06-19 05:46:23

Local clock offset: 0.001 ms

Remote clock offset: 0.067 ms

Below is generated by plot.py at 2018-06-19 09:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 724.16 Mbit/s

95th percentile per-packet one-way delay: 218.544 ms

Loss rate: 5.87%

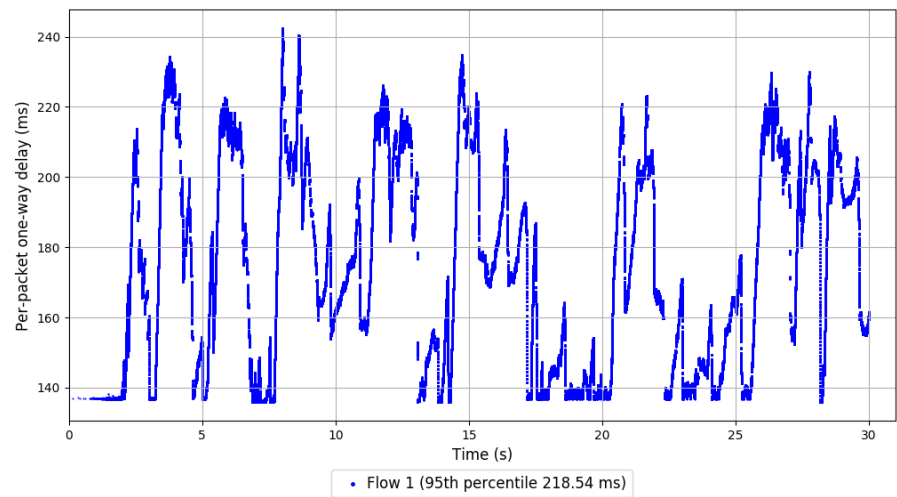
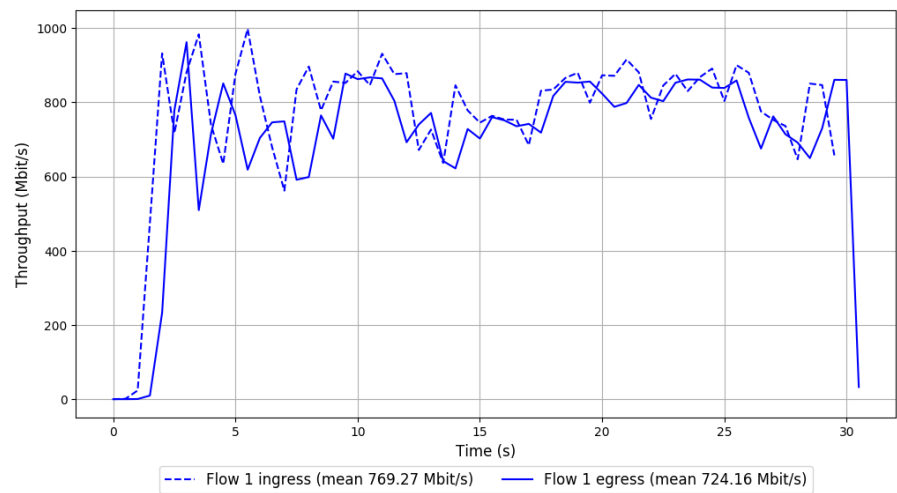
-- Flow 1:

Average throughput: 724.16 Mbit/s

95th percentile per-packet one-way delay: 218.544 ms

Loss rate: 5.87%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

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

End at: 2018-06-19 06:07:48

Local clock offset: -0.077 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-06-19 09:51:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 694.93 Mbit/s

95th percentile per-packet one-way delay: 212.755 ms

Loss rate: 5.83%

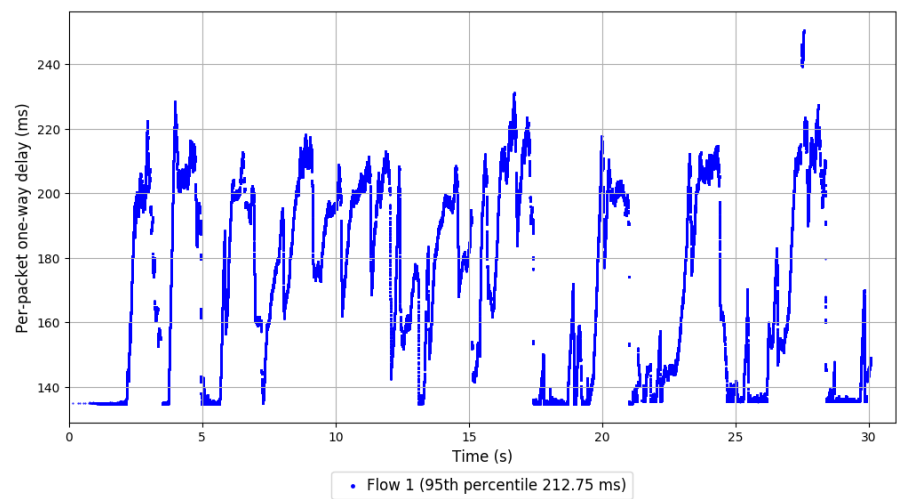
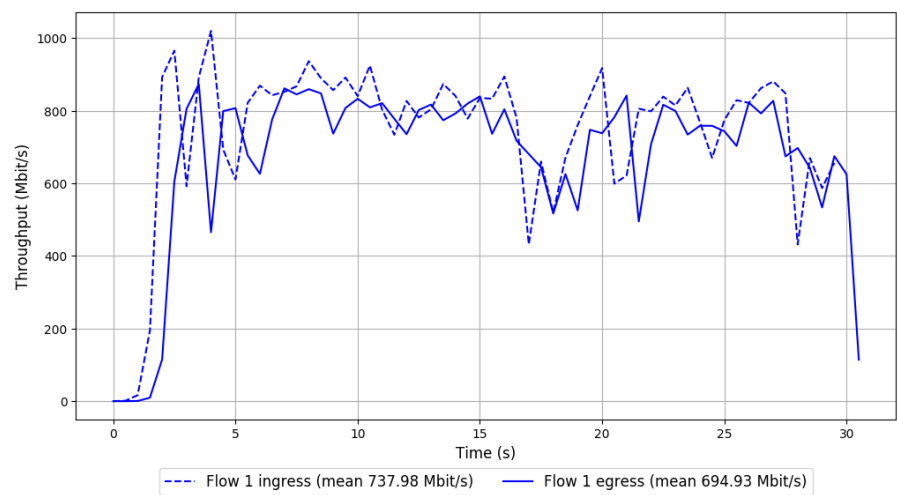
-- Flow 1:

Average throughput: 694.93 Mbit/s

95th percentile per-packet one-way delay: 212.755 ms

Loss rate: 5.83%

Run 2: Report of FillP — Data Link

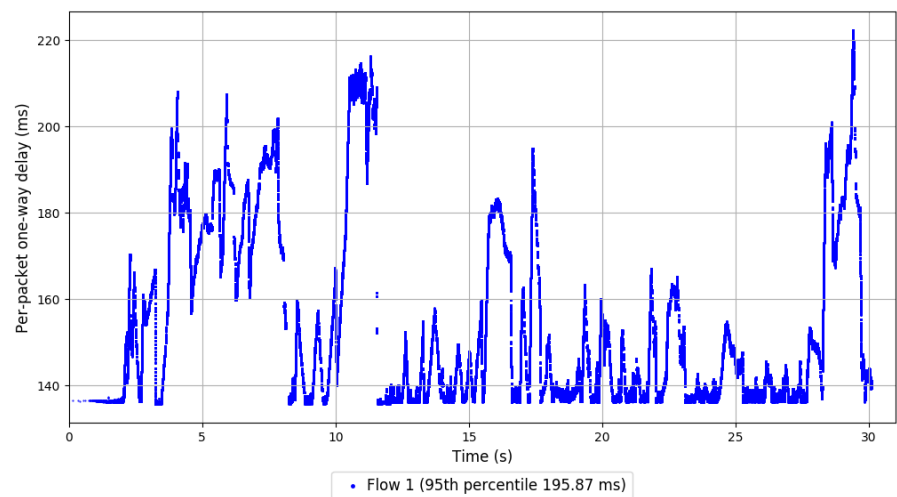
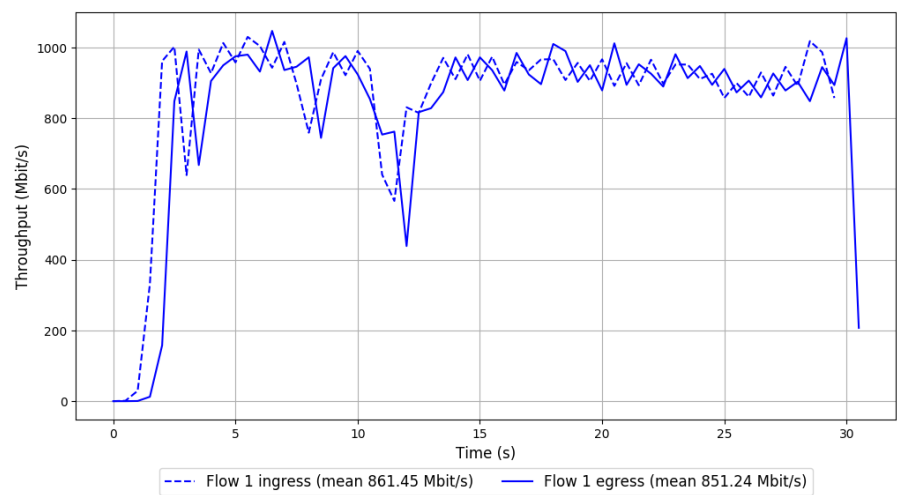


Run 3: Statistics of FillP

Start at: 2018-06-19 06:28:27
End at: 2018-06-19 06:28:57
Local clock offset: -0.053 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-06-19 09:54:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 851.24 Mbit/s
95th percentile per-packet one-way delay: 195.865 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 851.24 Mbit/s
95th percentile per-packet one-way delay: 195.865 ms
Loss rate: 1.18%

Run 3: Report of FillP — Data Link

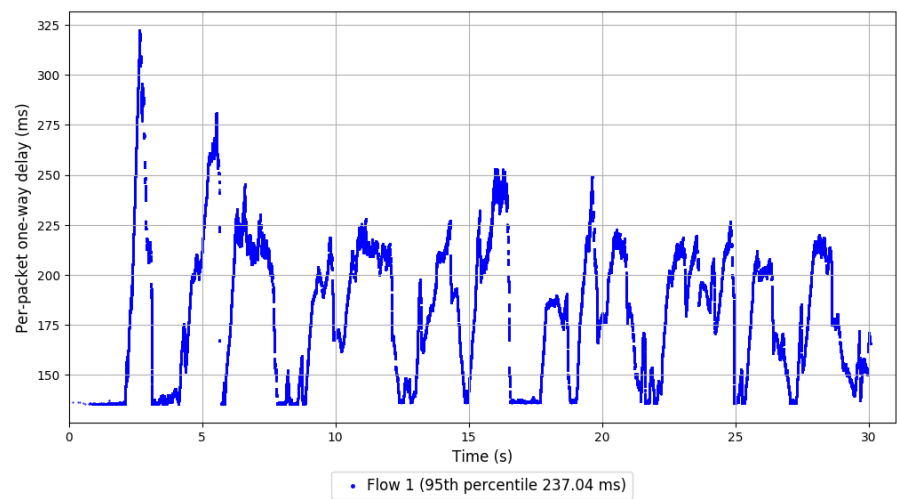
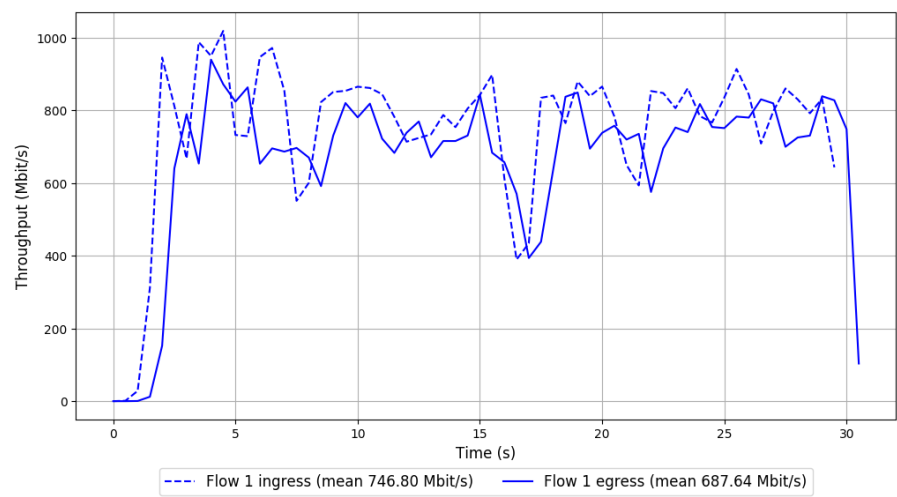


Run 4: Statistics of FillP

Start at: 2018-06-19 06:49:59
End at: 2018-06-19 06:50:29
Local clock offset: 0.055 ms
Remote clock offset: -0.366 ms

Below is generated by plot.py at 2018-06-19 09:54:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 687.64 Mbit/s
95th percentile per-packet one-way delay: 237.045 ms
Loss rate: 7.92%
-- Flow 1:
Average throughput: 687.64 Mbit/s
95th percentile per-packet one-way delay: 237.045 ms
Loss rate: 7.92%

Run 4: Report of FillP — Data Link

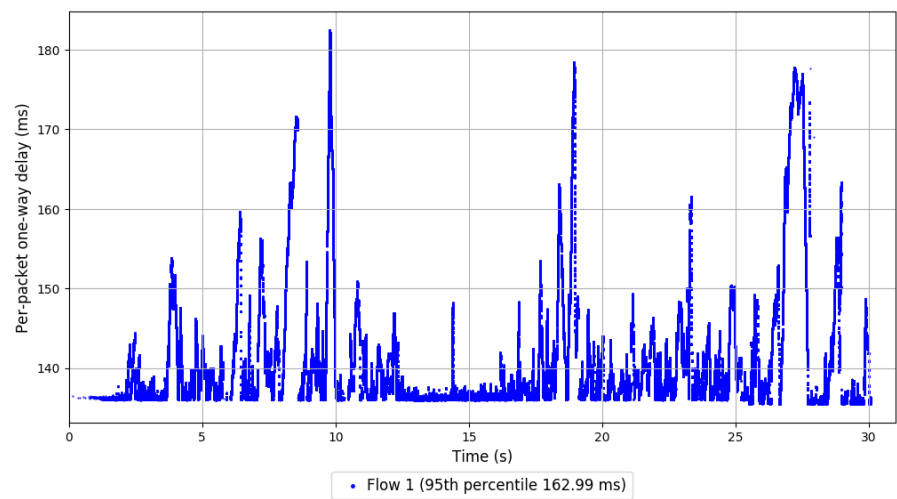
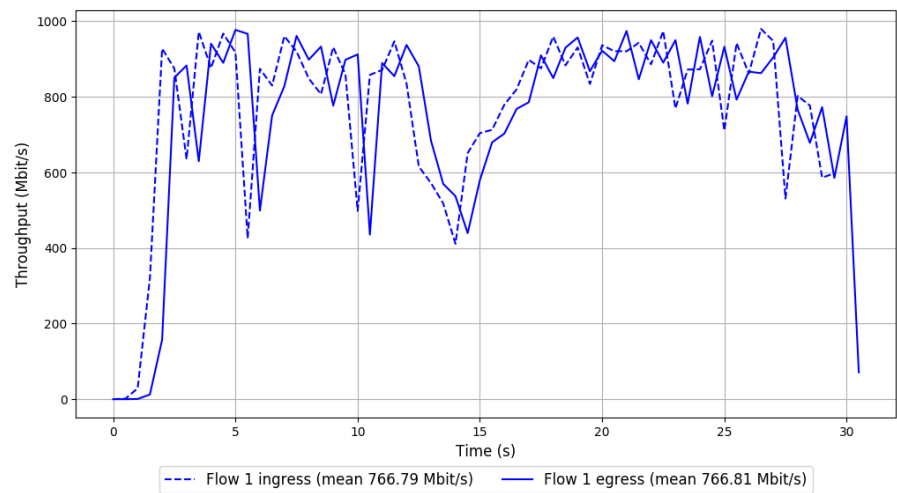


Run 5: Statistics of FillP

Start at: 2018-06-19 07:11:34
End at: 2018-06-19 07:12:04
Local clock offset: -0.077 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-06-19 09:54:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 766.81 Mbit/s
95th percentile per-packet one-way delay: 162.985 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 766.81 Mbit/s
95th percentile per-packet one-way delay: 162.985 ms
Loss rate: 0.00%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-06-19 07:33:18

End at: 2018-06-19 07:33:48

Local clock offset: 0.257 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-19 09:54:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 762.67 Mbit/s

95th percentile per-packet one-way delay: 214.174 ms

Loss rate: 4.47%

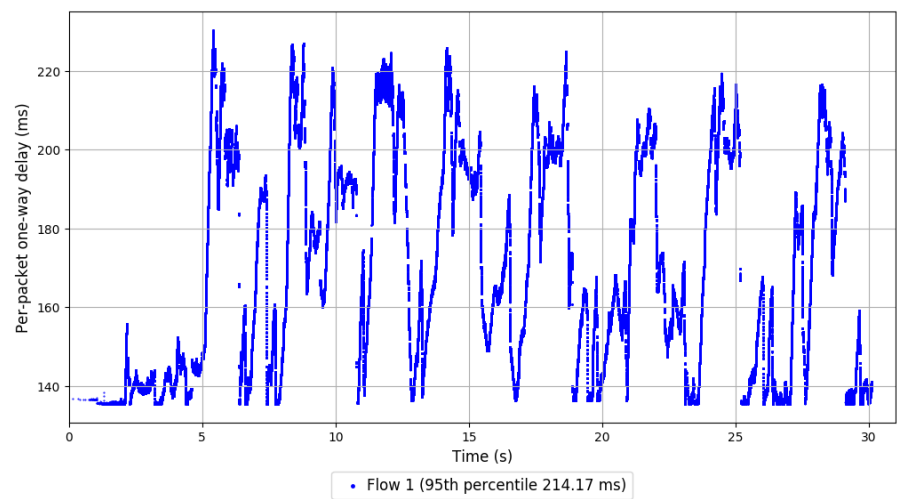
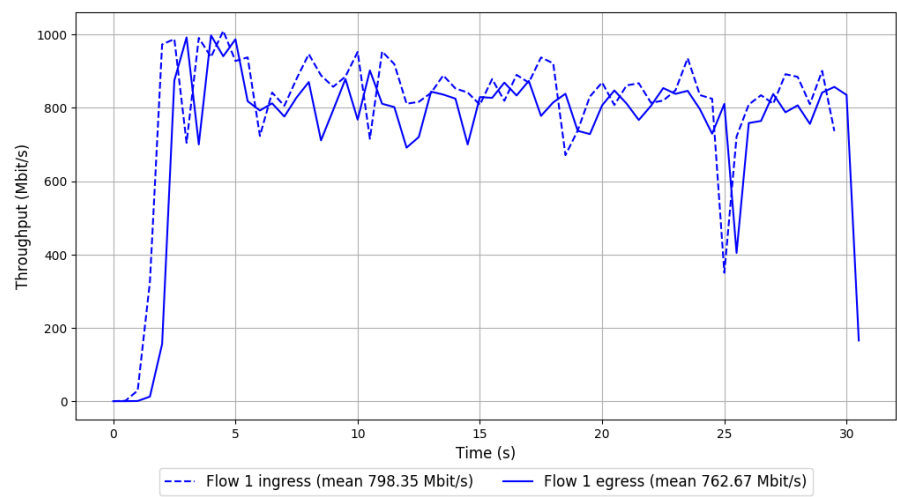
-- Flow 1:

Average throughput: 762.67 Mbit/s

95th percentile per-packet one-way delay: 214.174 ms

Loss rate: 4.47%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-06-19 07:54:57

End at: 2018-06-19 07:55:27

Local clock offset: 0.082 ms

Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-06-19 09:54:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 778.62 Mbit/s

95th percentile per-packet one-way delay: 207.924 ms

Loss rate: 3.34%

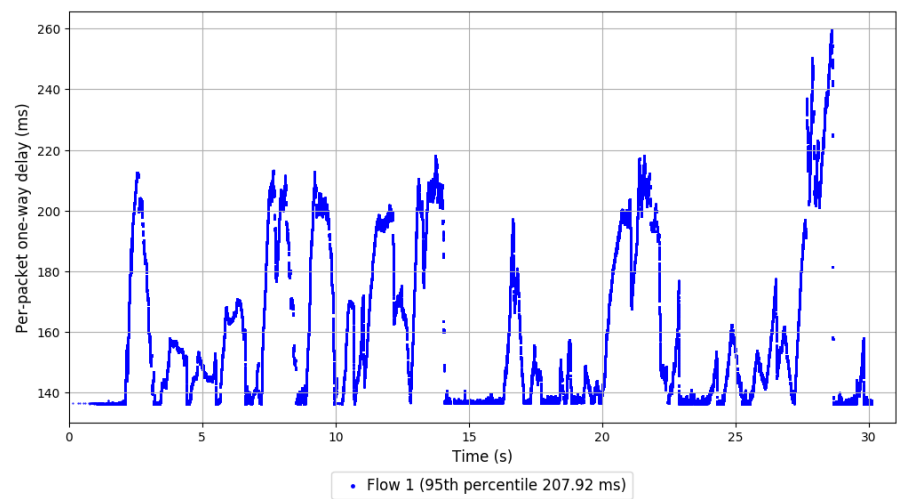
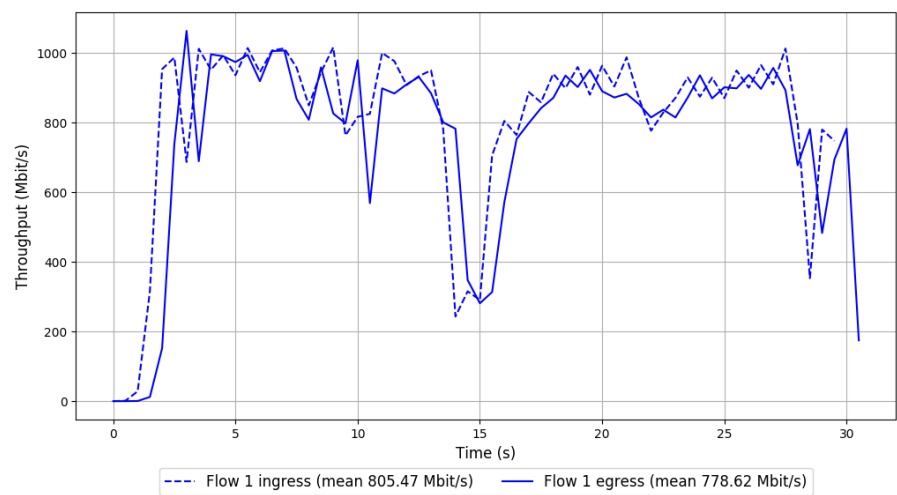
-- Flow 1:

Average throughput: 778.62 Mbit/s

95th percentile per-packet one-way delay: 207.924 ms

Loss rate: 3.34%

Run 7: Report of FillP — Data Link

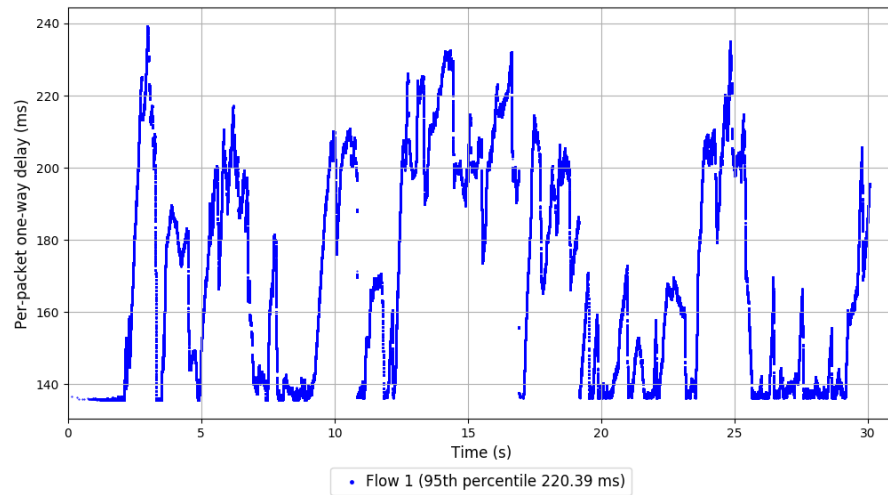
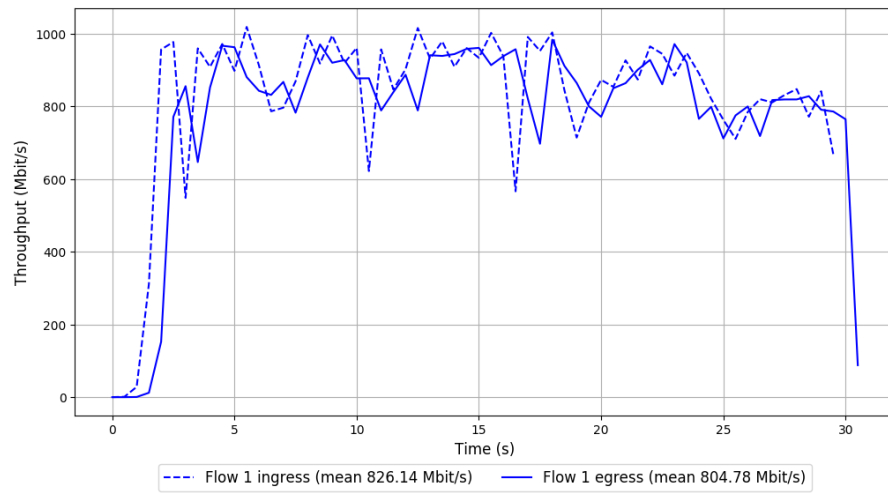


Run 8: Statistics of FillP

Start at: 2018-06-19 08:15:49
End at: 2018-06-19 08:16:19
Local clock offset: -0.04 ms
Remote clock offset: -0.357 ms

Below is generated by plot.py at 2018-06-19 09:58:23
Datalink statistics
-- Total of 1 flow:
Average throughput: 804.78 Mbit/s
95th percentile per-packet one-way delay: 220.387 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 804.78 Mbit/s
95th percentile per-packet one-way delay: 220.387 ms
Loss rate: 2.59%

Run 8: Report of FillP — Data Link

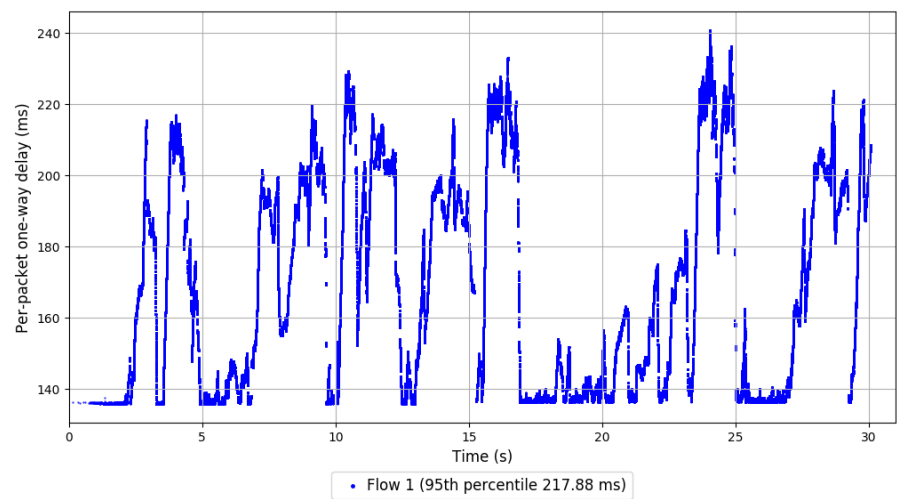
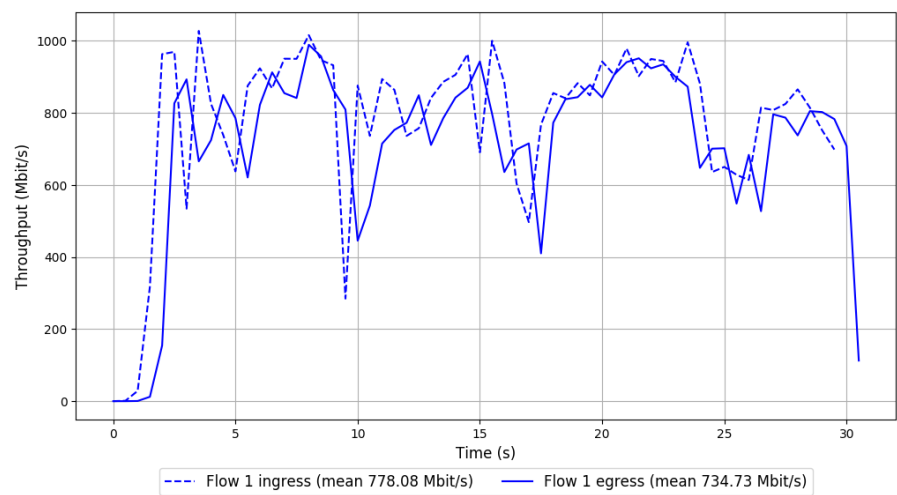


Run 9: Statistics of FillP

Start at: 2018-06-19 08:37:26
End at: 2018-06-19 08:37:56
Local clock offset: 0.04 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 10:06:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 734.73 Mbit/s
95th percentile per-packet one-way delay: 217.885 ms
Loss rate: 5.57%
-- Flow 1:
Average throughput: 734.73 Mbit/s
95th percentile per-packet one-way delay: 217.885 ms
Loss rate: 5.57%

Run 9: Report of FillP — Data Link

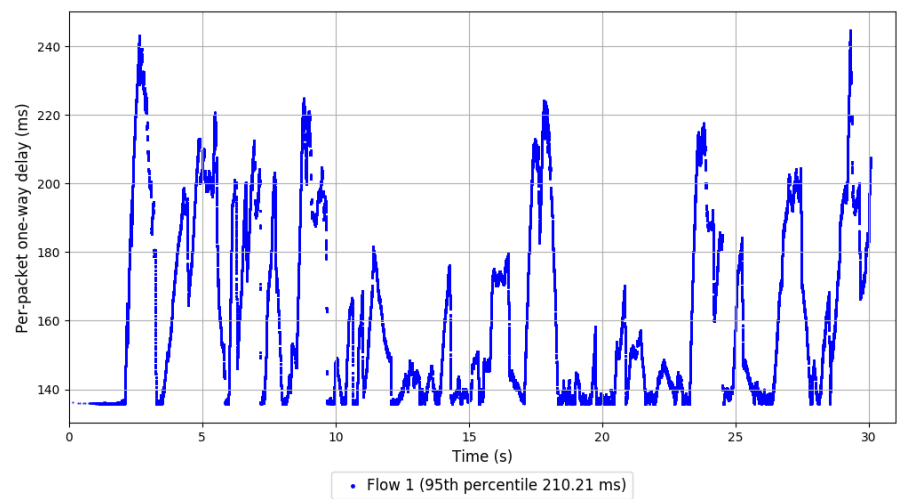
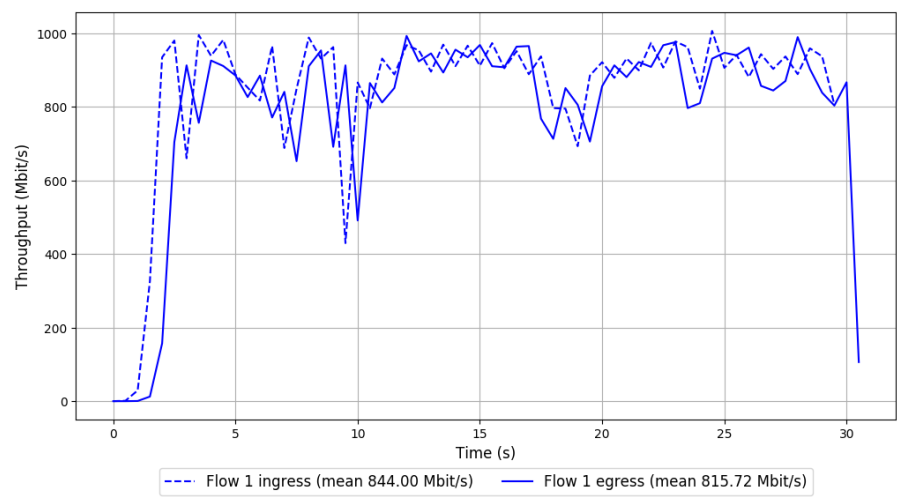


Run 10: Statistics of FillP

Start at: 2018-06-19 08:58:39
End at: 2018-06-19 08:59:09
Local clock offset: 0.054 ms
Remote clock offset: -0.061 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 815.72 Mbit/s
95th percentile per-packet one-way delay: 210.210 ms
Loss rate: 3.35%
-- Flow 1:
Average throughput: 815.72 Mbit/s
95th percentile per-packet one-way delay: 210.210 ms
Loss rate: 3.35%

Run 10: Report of FillP — Data Link

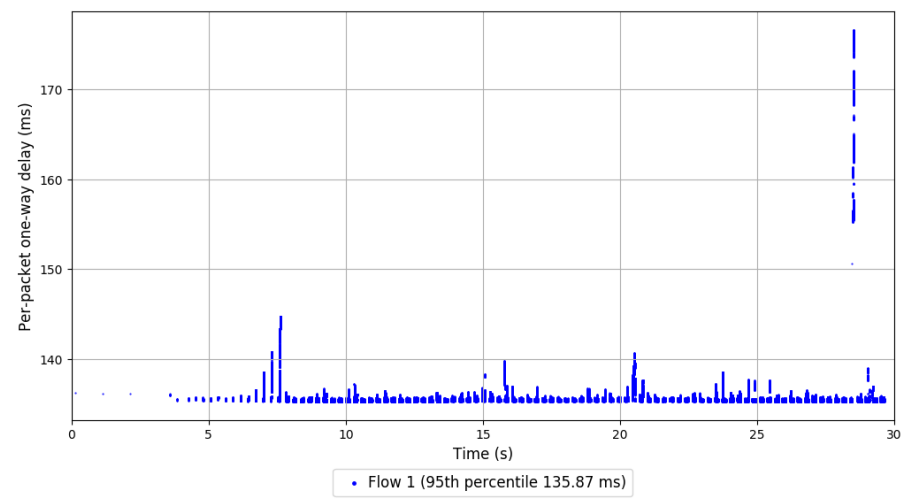
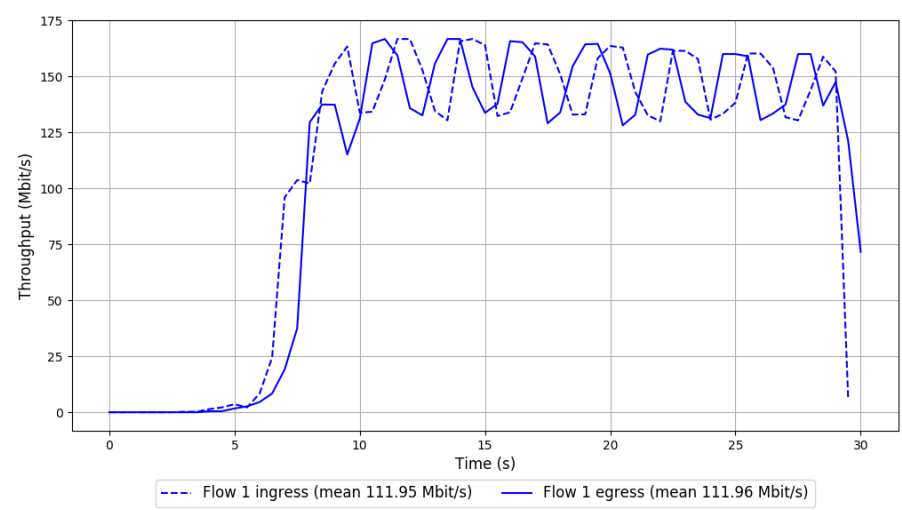


```
Run 1: Statistics of Indigo

Start at: 2018-06-19 05:49:05
End at: 2018-06-19 05:49:35
Local clock offset: 0.056 ms
Remote clock offset: -0.341 ms

# Below is generated by plot.py at 2018-06-19 10:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 111.96 Mbit/s
95th percentile per-packet one-way delay: 135.869 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 111.96 Mbit/s
95th percentile per-packet one-way delay: 135.869 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link

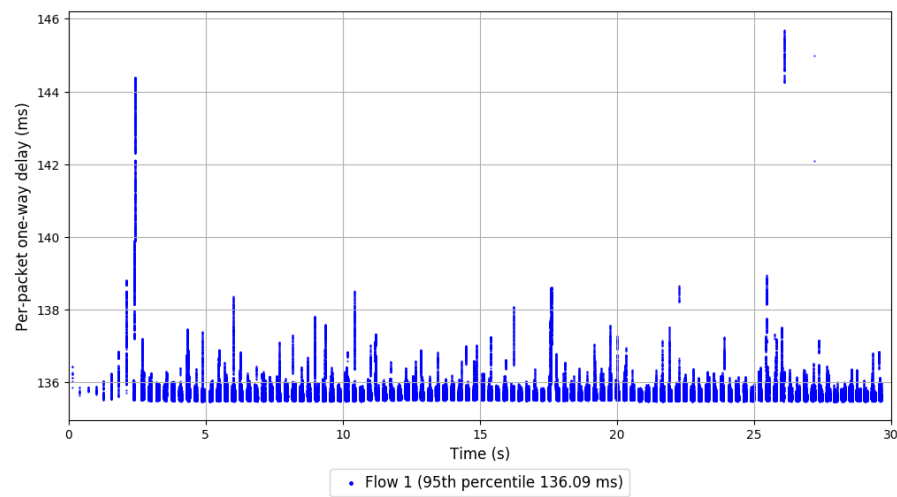
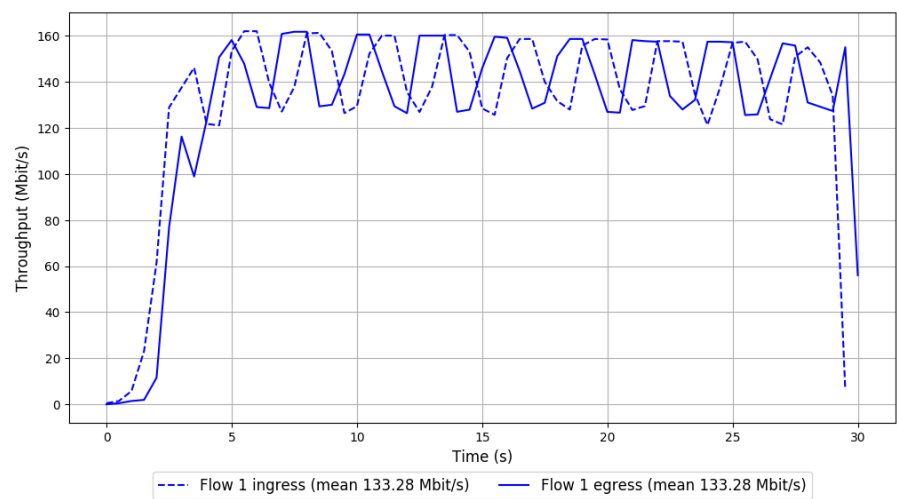


Run 2: Statistics of Indigo

Start at: 2018-06-19 06:10:28
End at: 2018-06-19 06:10:58
Local clock offset: -0.025 ms
Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 133.28 Mbit/s
95th percentile per-packet one-way delay: 136.090 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 133.28 Mbit/s
95th percentile per-packet one-way delay: 136.090 ms
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-06-19 06:31:45

End at: 2018-06-19 06:32:15

Local clock offset: -0.26 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.13 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 0.00%

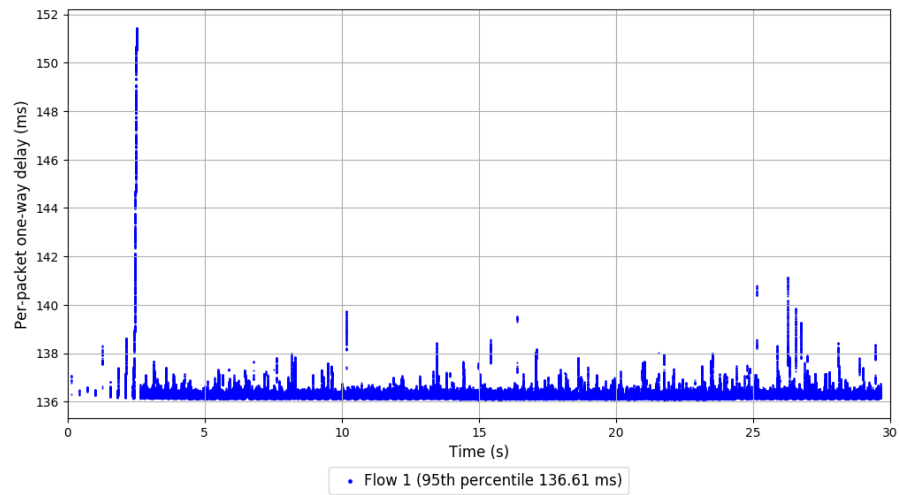
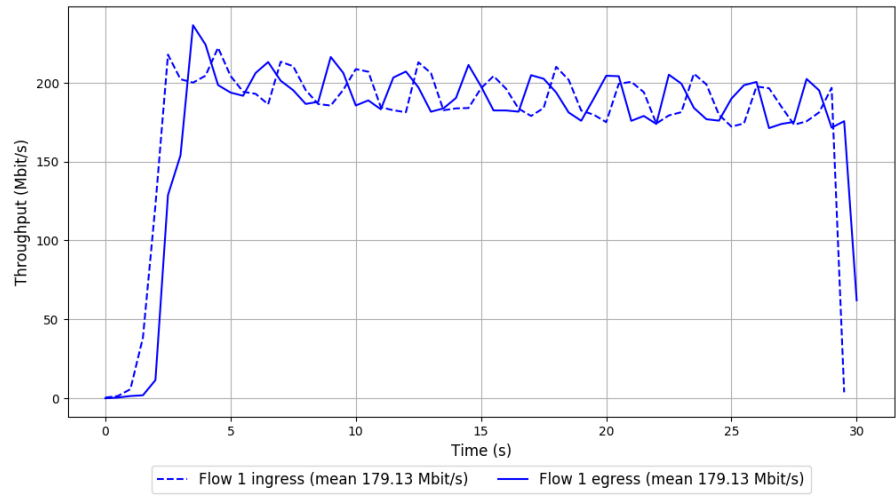
-- Flow 1:

Average throughput: 179.13 Mbit/s

95th percentile per-packet one-way delay: 136.613 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-06-19 06:53:16

End at: 2018-06-19 06:53:46

Local clock offset: 0.096 ms

Remote clock offset: 0.05 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 177.49 Mbit/s

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

Loss rate: 0.00%

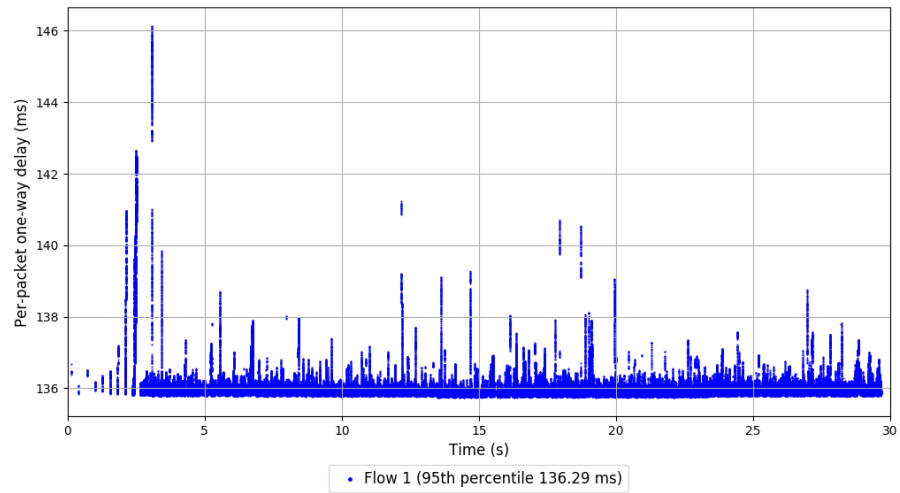
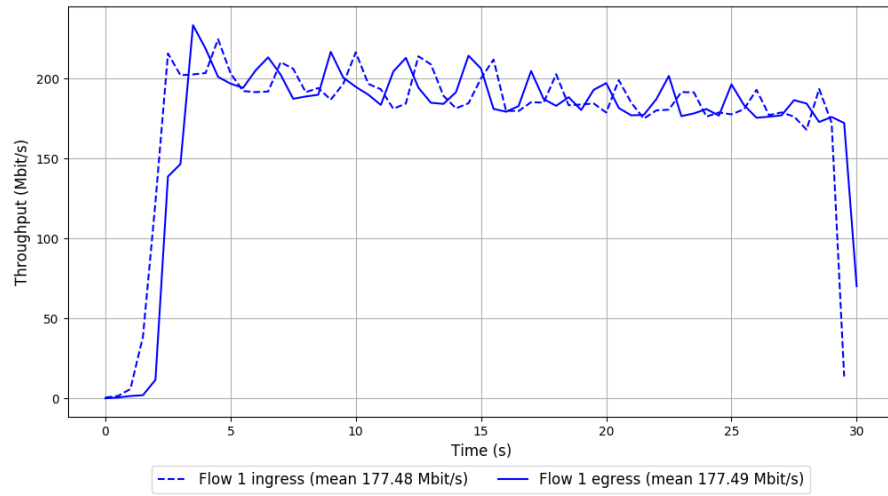
-- Flow 1:

Average throughput: 177.49 Mbit/s

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

Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-19 07:14:49

End at: 2018-06-19 07:15:19

Local clock offset: 0.184 ms

Remote clock offset: 0.438 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 152.20 Mbit/s

95th percentile per-packet one-way delay: 137.036 ms

Loss rate: 0.00%

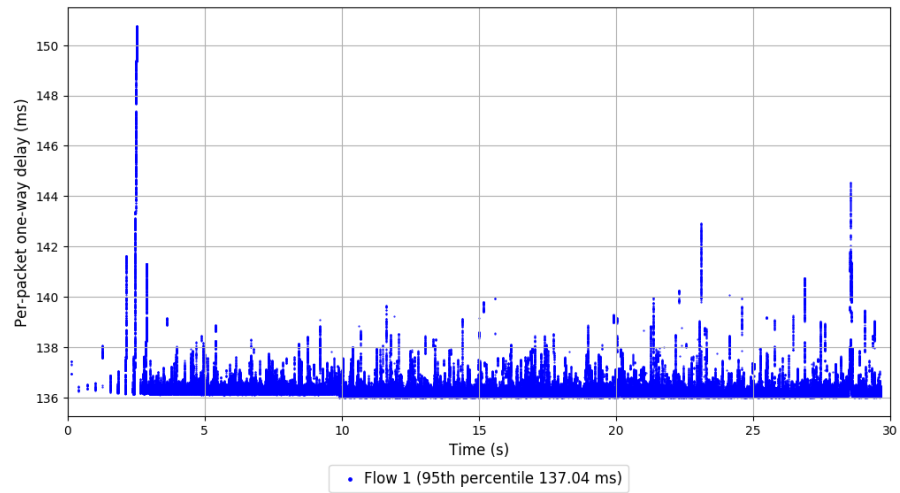
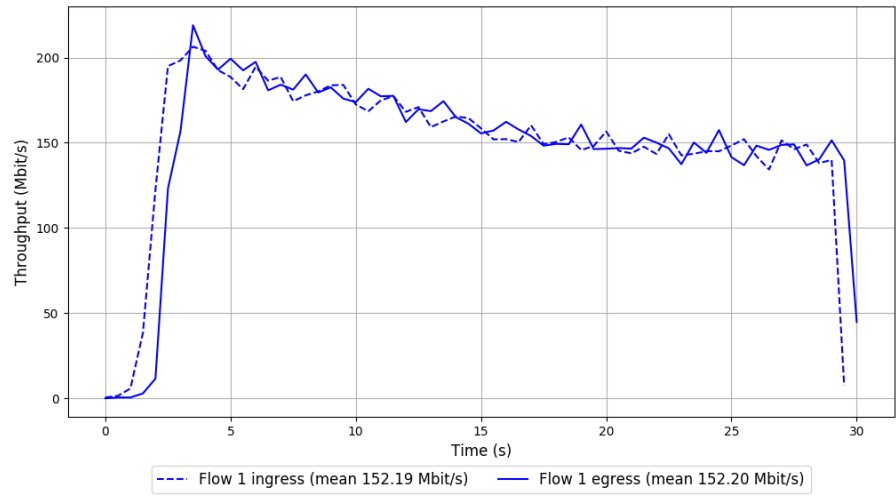
-- Flow 1:

Average throughput: 152.20 Mbit/s

95th percentile per-packet one-way delay: 137.036 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-06-19 07:36:31

End at: 2018-06-19 07:37:01

Local clock offset: 0.257 ms

Remote clock offset: 0.34 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.04 Mbit/s

95th percentile per-packet one-way delay: 136.576 ms

Loss rate: 0.00%

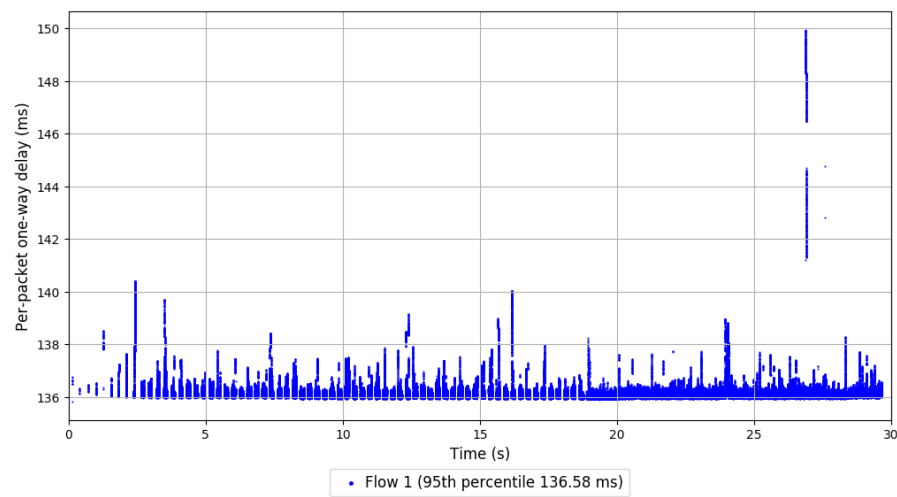
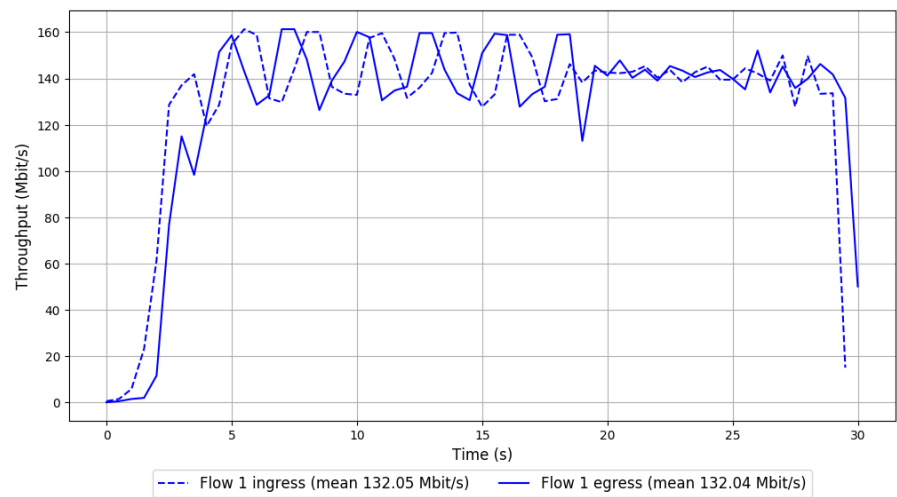
-- Flow 1:

Average throughput: 132.04 Mbit/s

95th percentile per-packet one-way delay: 136.576 ms

Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-19 07:58:10

End at: 2018-06-19 07:58:40

Local clock offset: 0.003 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 135.25 Mbit/s

95th percentile per-packet one-way delay: 136.698 ms

Loss rate: 0.00%

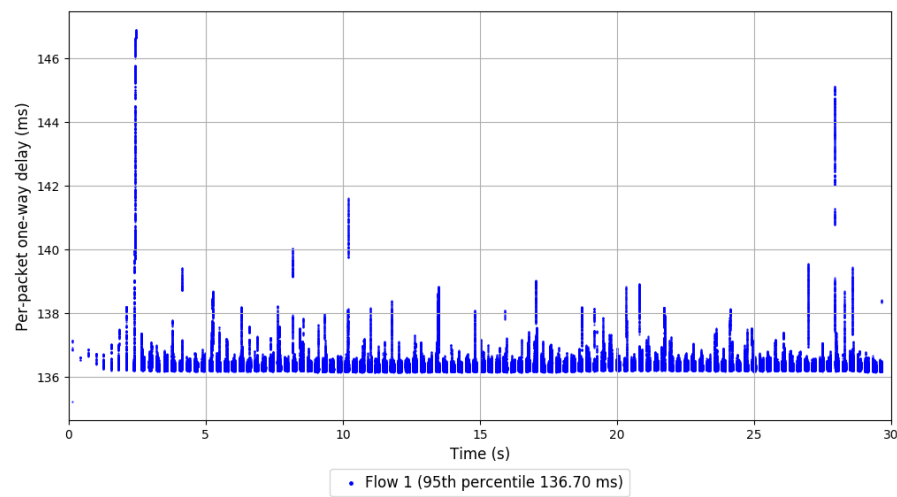
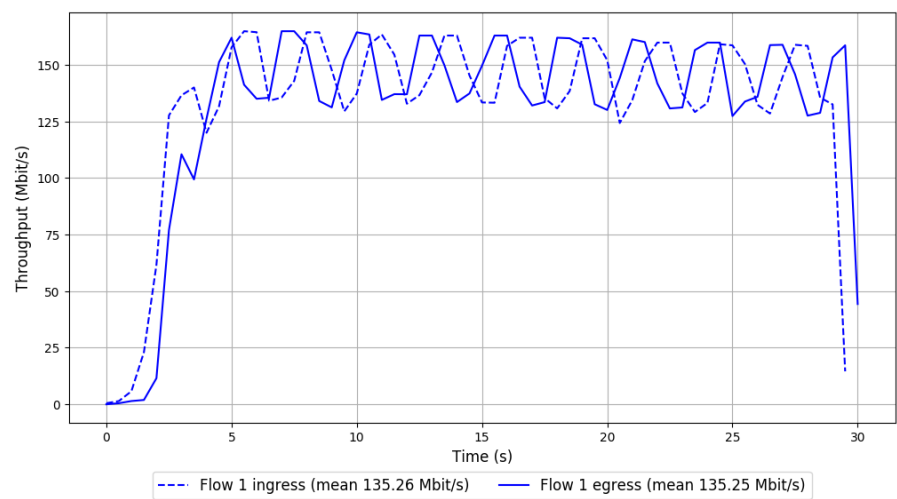
-- Flow 1:

Average throughput: 135.25 Mbit/s

95th percentile per-packet one-way delay: 136.698 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

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

End at: 2018-06-19 08:19:34

Local clock offset: 0.002 ms

Remote clock offset: 0.025 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.10 Mbit/s

95th percentile per-packet one-way delay: 136.912 ms

Loss rate: 0.00%

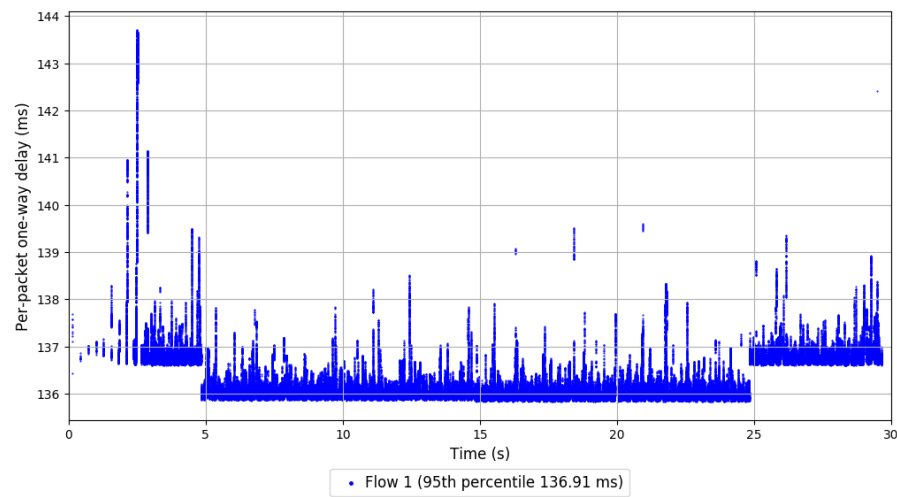
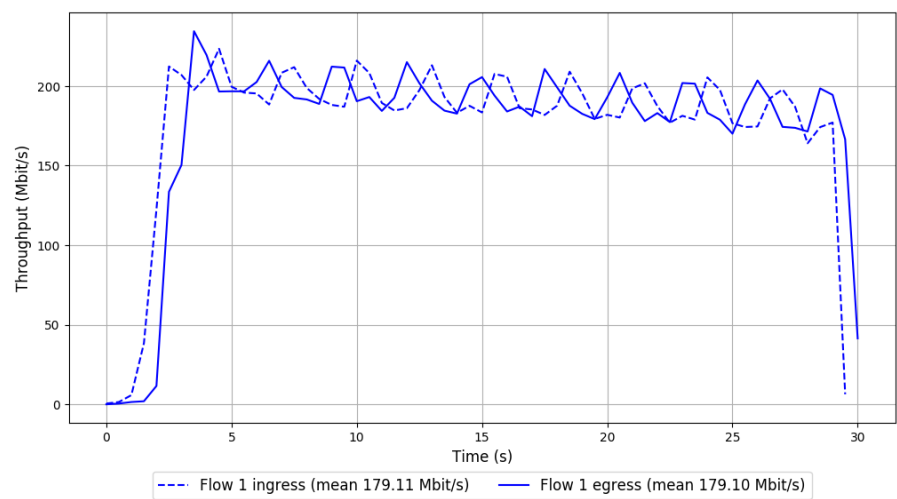
-- Flow 1:

Average throughput: 179.10 Mbit/s

95th percentile per-packet one-way delay: 136.912 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

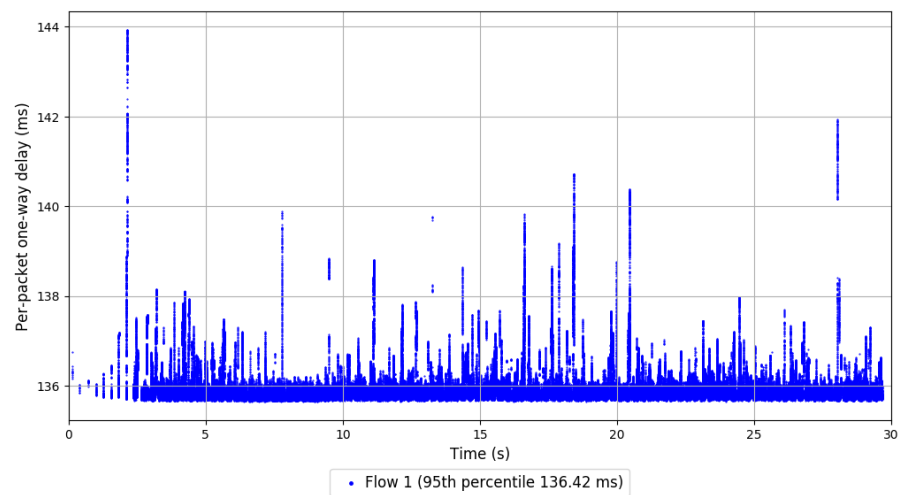
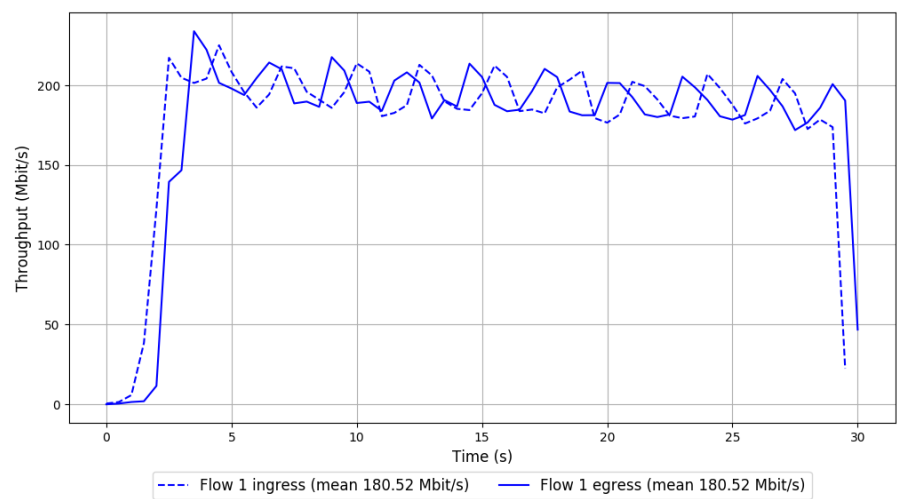


Run 9: Statistics of Indigo

Start at: 2018-06-19 08:40:40
End at: 2018-06-19 08:41:10
Local clock offset: 0.038 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 180.52 Mbit/s
95th percentile per-packet one-way delay: 136.416 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 180.52 Mbit/s
95th percentile per-packet one-way delay: 136.416 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-06-19 09:01:53

End at: 2018-06-19 09:02:23

Local clock offset: -0.013 ms

Remote clock offset: -0.069 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 136.474 ms

Loss rate: 0.00%

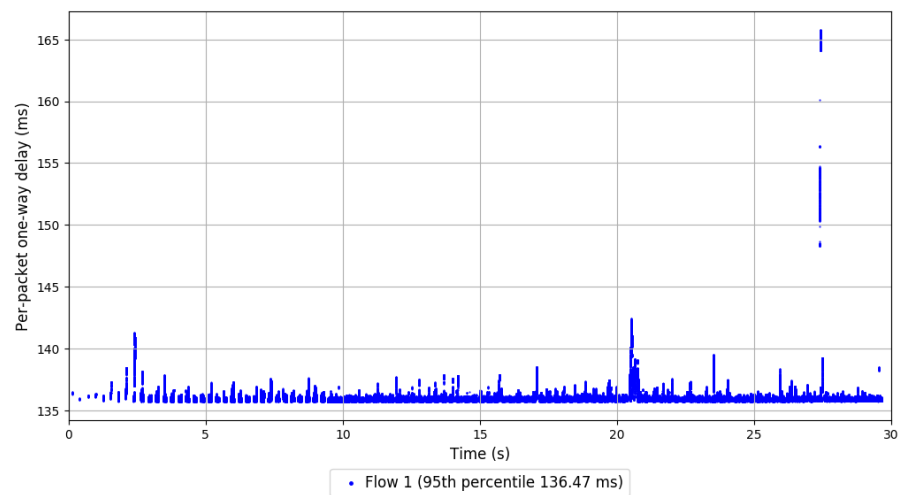
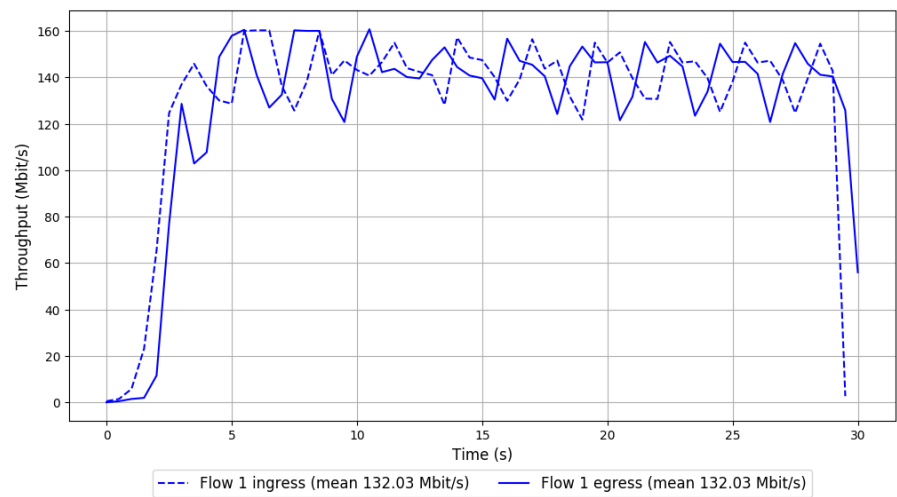
-- Flow 1:

Average throughput: 132.03 Mbit/s

95th percentile per-packet one-way delay: 136.474 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

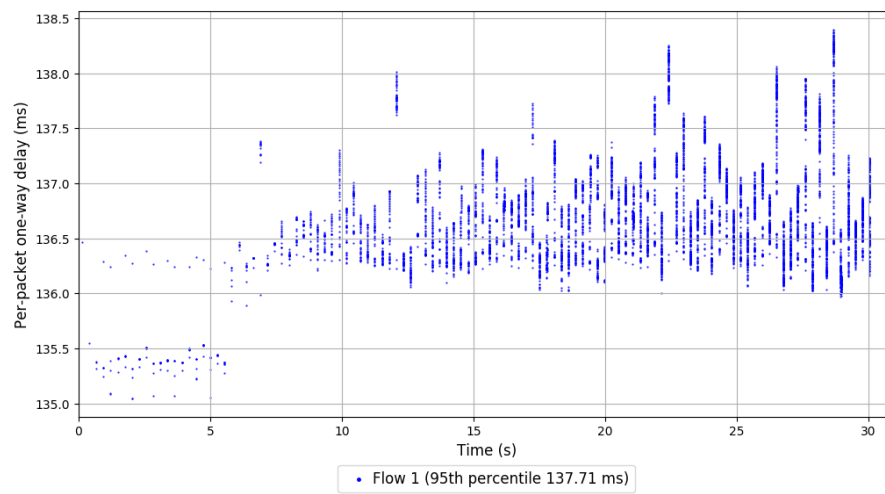
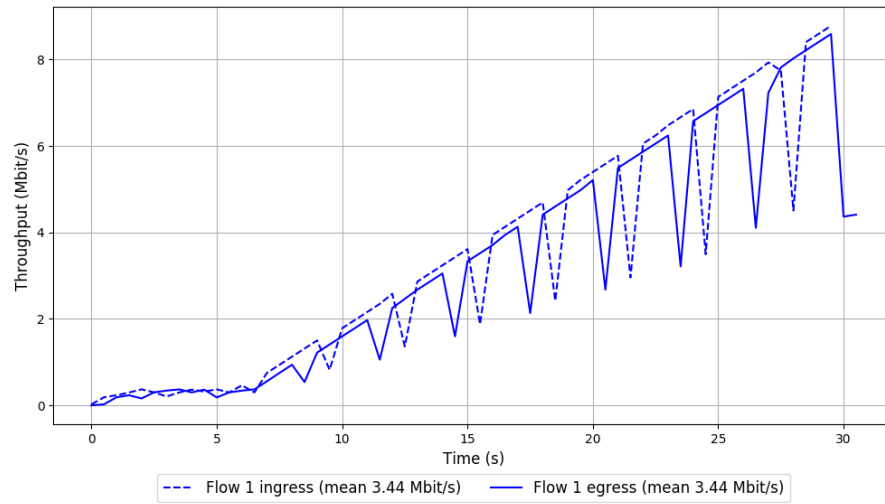


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-19 06:02:14
End at: 2018-06-19 06:02:44
Local clock offset: -0.152 ms
Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-06-19 10:08:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 137.710 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.44 Mbit/s
95th percentile per-packet one-way delay: 137.710 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

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

End at: 2018-06-19 06:23:50

Local clock offset: 0.104 ms

Remote clock offset: 0.014 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.00%

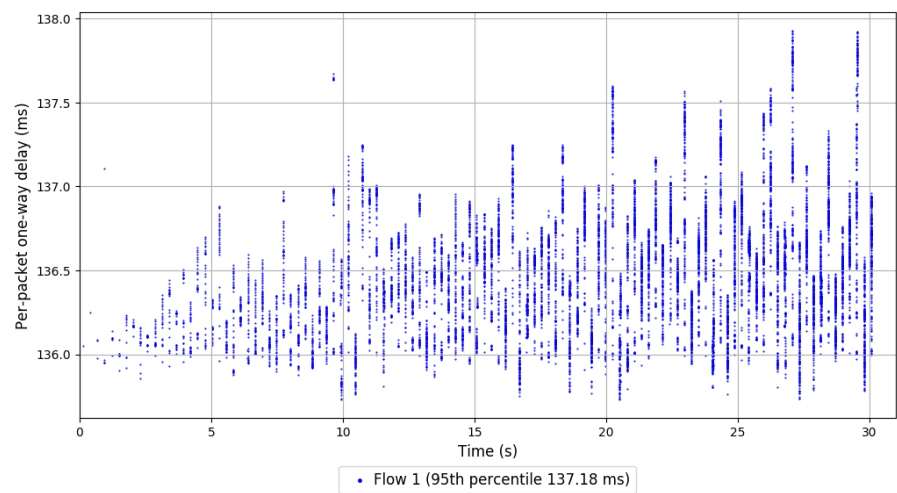
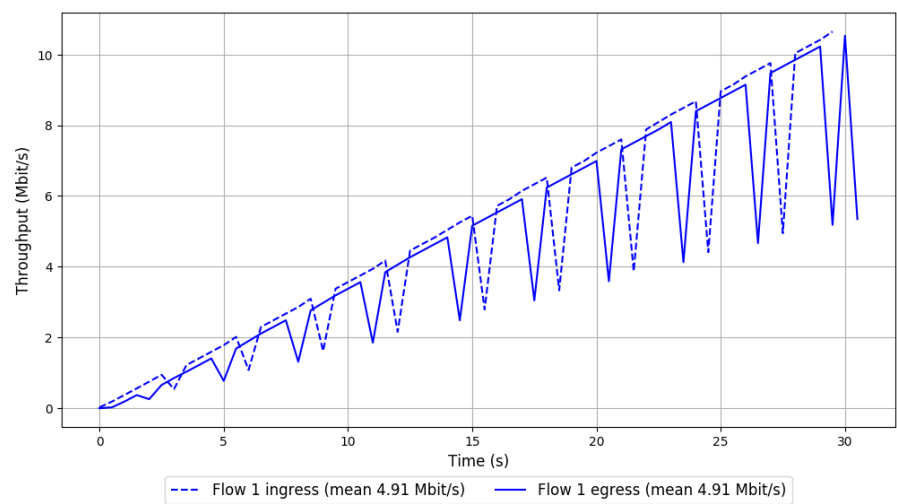
-- Flow 1:

Average throughput: 4.91 Mbit/s

95th percentile per-packet one-way delay: 137.182 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-06-19 06:45:05

End at: 2018-06-19 06:45:35

Local clock offset: -0.071 ms

Remote clock offset: 0.018 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 137.425 ms

Loss rate: 0.00%

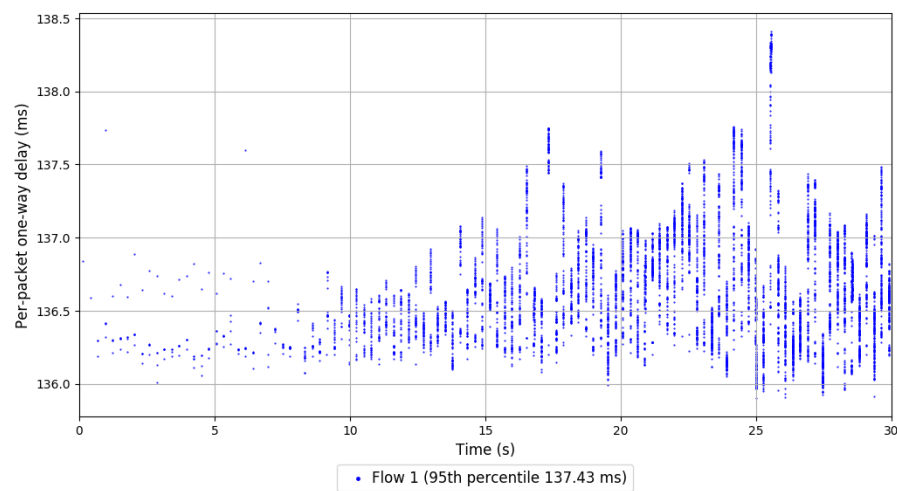
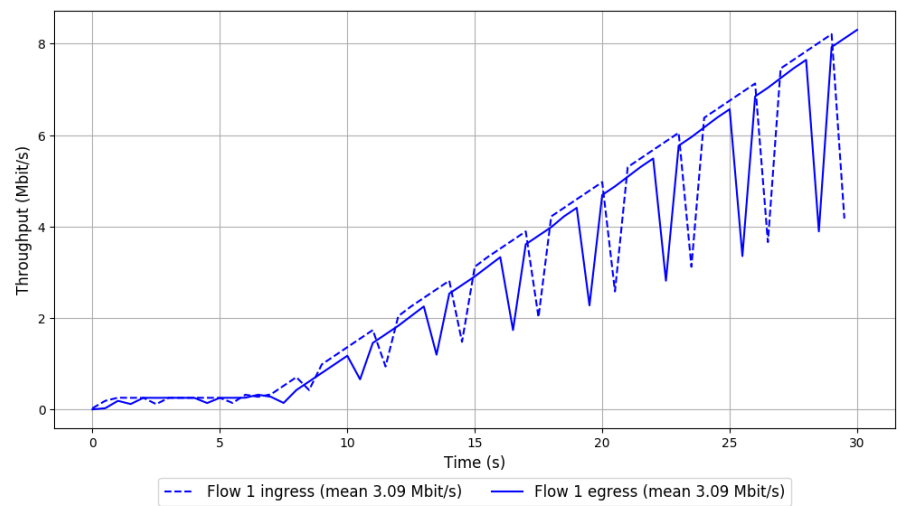
-- Flow 1:

Average throughput: 3.09 Mbit/s

95th percentile per-packet one-way delay: 137.425 ms

Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

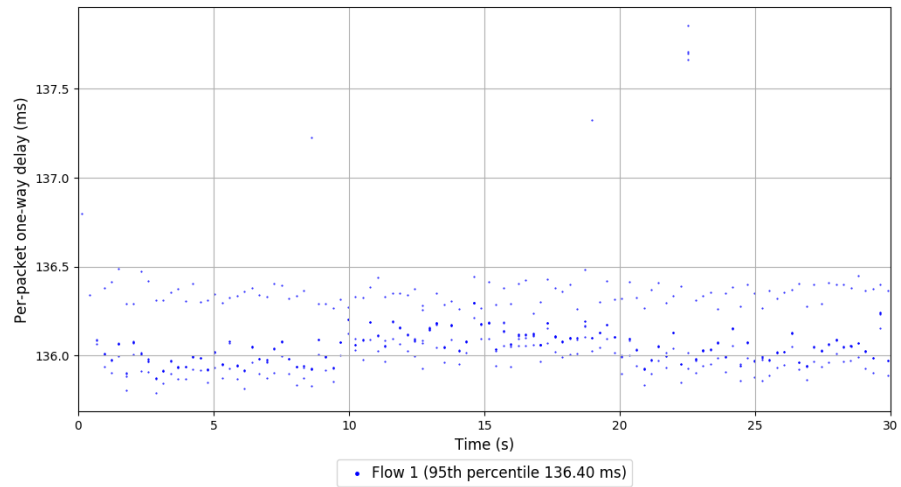
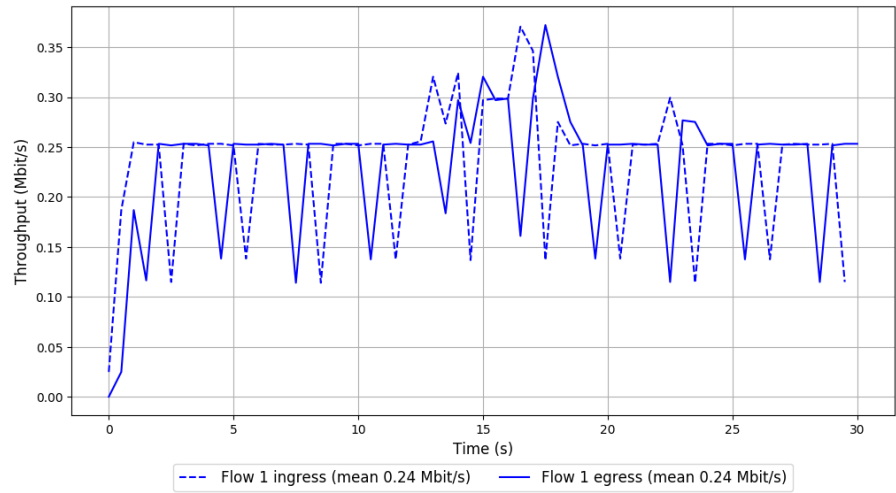


Run 4: Statistics of LEDBAT

Start at: 2018-06-19 07:06:30
End at: 2018-06-19 07:07:00
Local clock offset: 0.057 ms
Remote clock offset: -0.044 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.24 Mbit/s
95th percentile per-packet one-way delay: 136.397 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

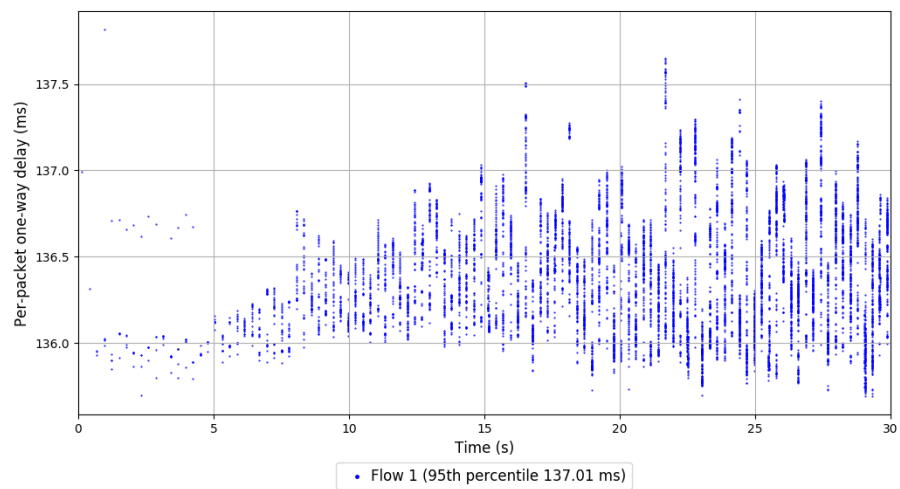
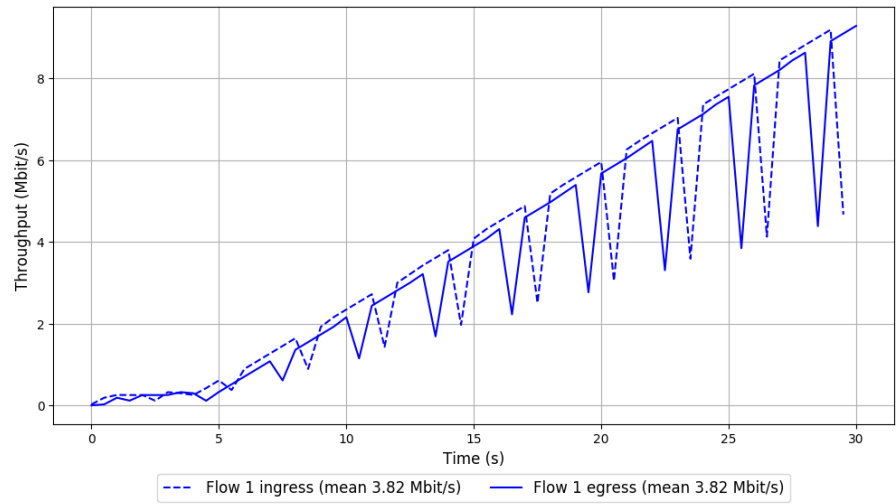


Run 5: Statistics of LEDBAT

Start at: 2018-06-19 07:28:11
End at: 2018-06-19 07:28:41
Local clock offset: 0.087 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 137.012 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 137.012 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-06-19 07:49:49

End at: 2018-06-19 07:50:19

Local clock offset: 0.022 ms

Remote clock offset: 0.051 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 137.197 ms

Loss rate: 0.00%

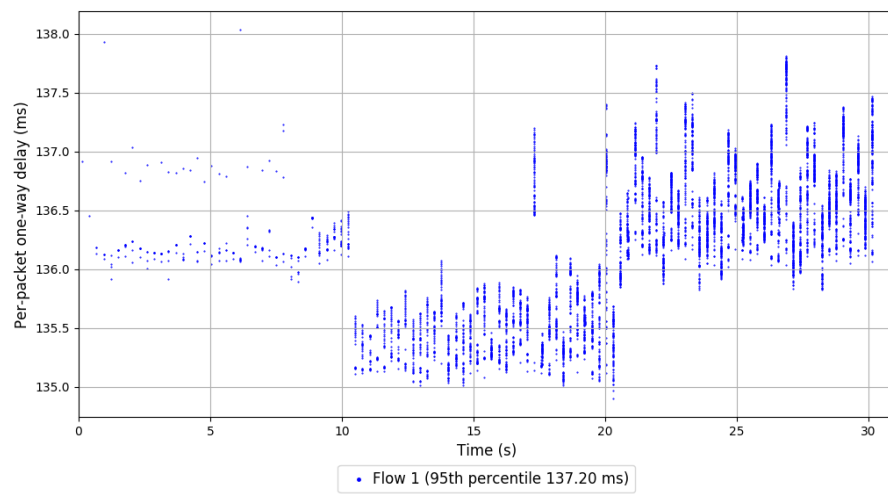
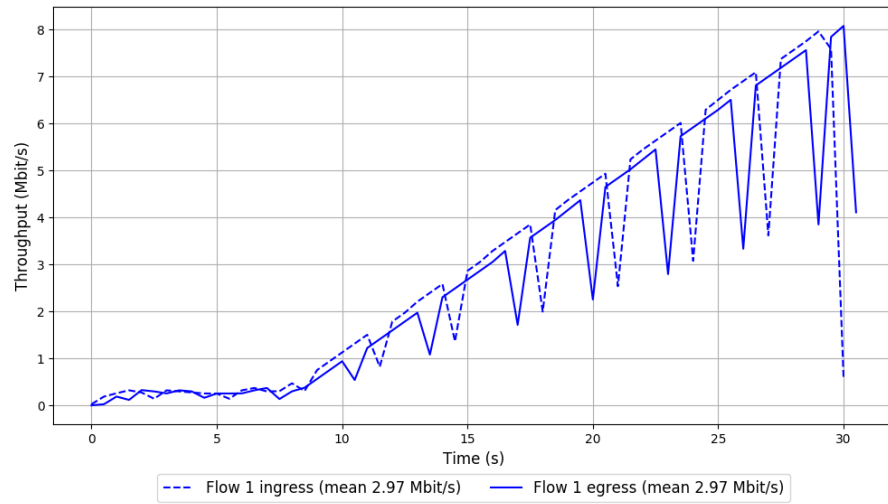
-- Flow 1:

Average throughput: 2.97 Mbit/s

95th percentile per-packet one-way delay: 137.197 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-06-19 08:10:50

End at: 2018-06-19 08:11:20

Local clock offset: -0.161 ms

Remote clock offset: 0.402 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 138.063 ms

Loss rate: 0.00%

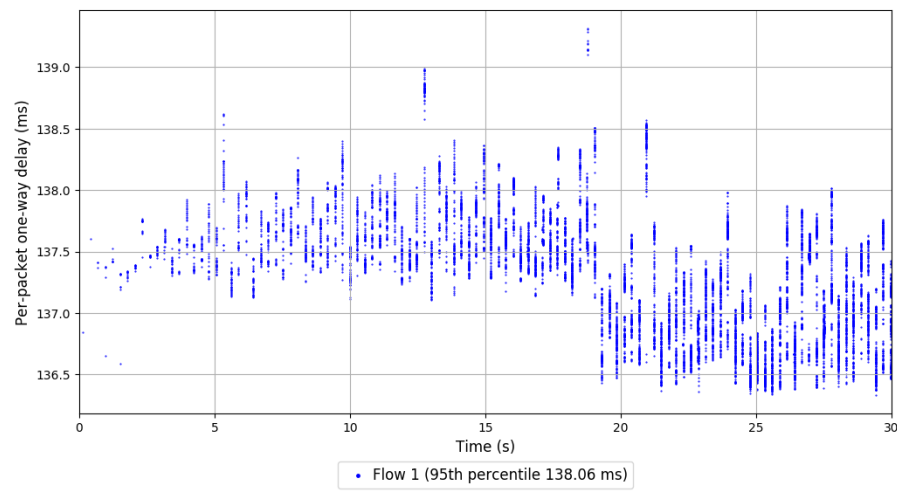
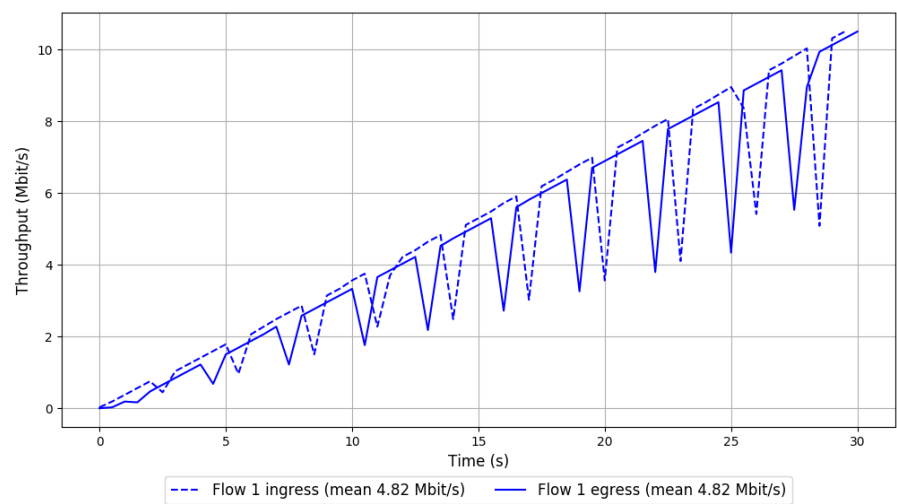
-- Flow 1:

Average throughput: 4.82 Mbit/s

95th percentile per-packet one-way delay: 138.063 ms

Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-19 08:32:24

End at: 2018-06-19 08:32:54

Local clock offset: -0.06 ms

Remote clock offset: 0.314 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 138.396 ms

Loss rate: 0.00%

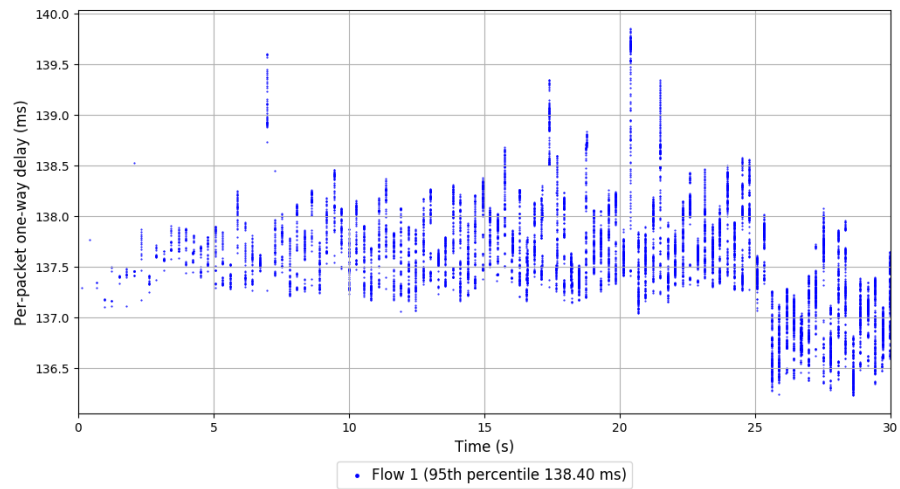
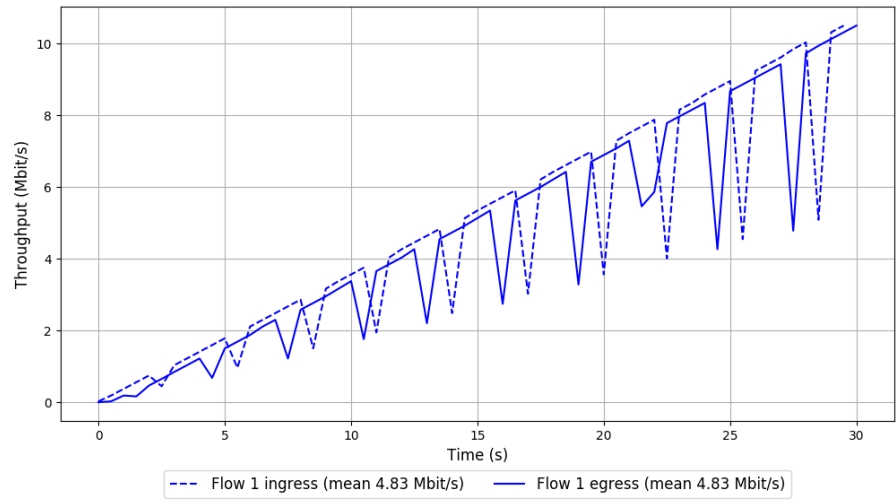
-- Flow 1:

Average throughput: 4.83 Mbit/s

95th percentile per-packet one-way delay: 138.396 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

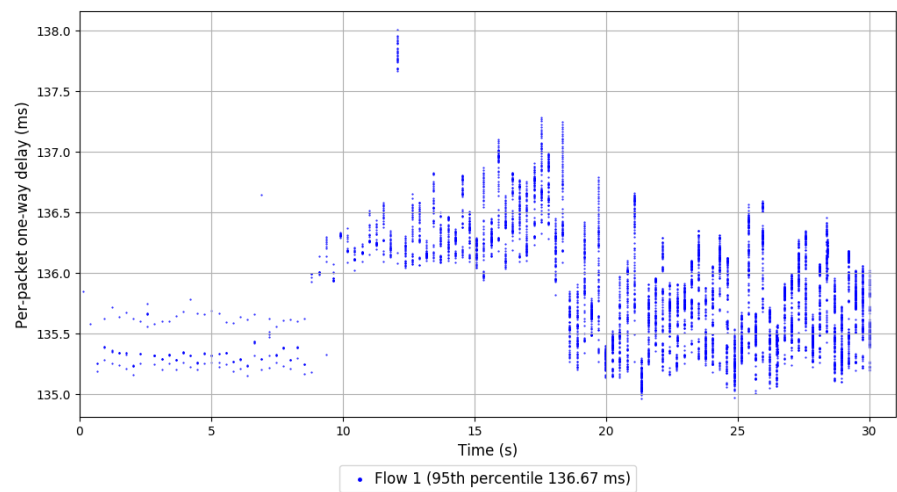
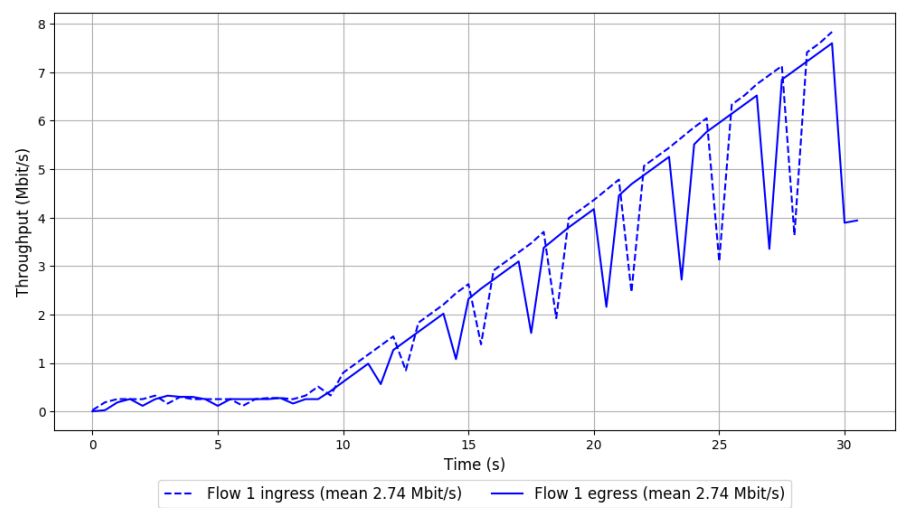


Run 9: Statistics of LEDBAT

Start at: 2018-06-19 08:53:41
End at: 2018-06-19 08:54:11
Local clock offset: 0.387 ms
Remote clock offset: -0.458 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 136.667 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

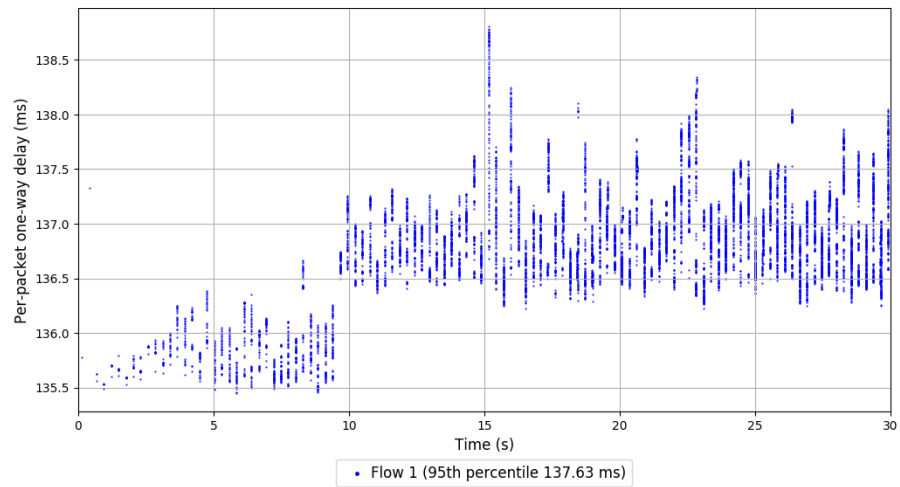
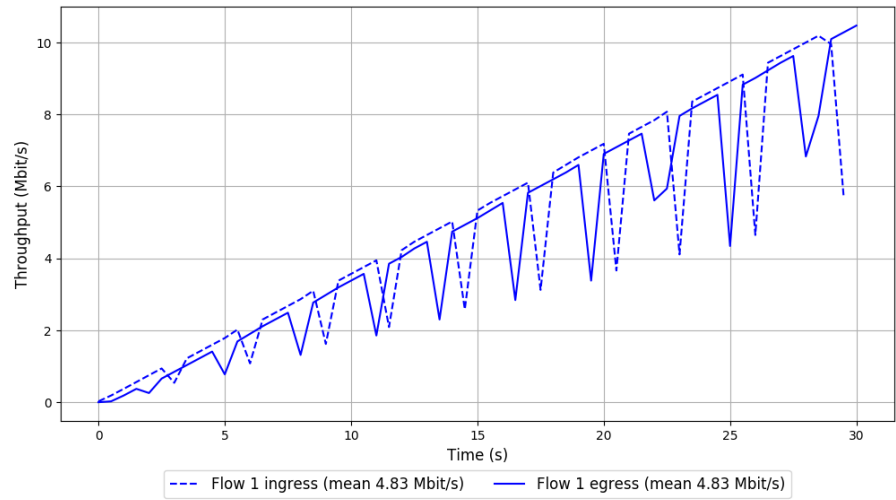


Run 10: Statistics of LEDBAT

Start at: 2018-06-19 09:15:10
End at: 2018-06-19 09:15:40
Local clock offset: -0.015 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2018-06-19 10:08:02
Datalink statistics
-- Total of 1 flow:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 137.628 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 4.83 Mbit/s
95th percentile per-packet one-way delay: 137.628 ms
Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-19 05:47:34

End at: 2018-06-19 05:48:04

Local clock offset: -0.041 ms

Remote clock offset: 0.029 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 552.49 Mbit/s

95th percentile per-packet one-way delay: 210.209 ms

Loss rate: 1.48%

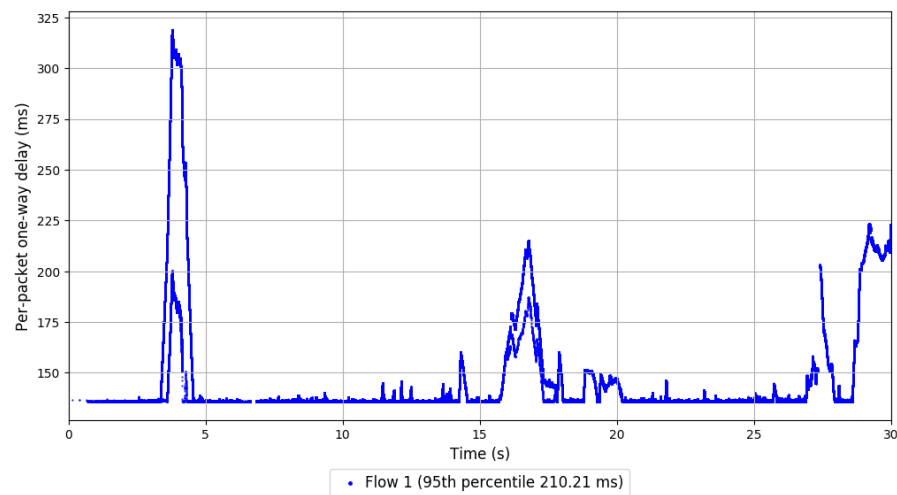
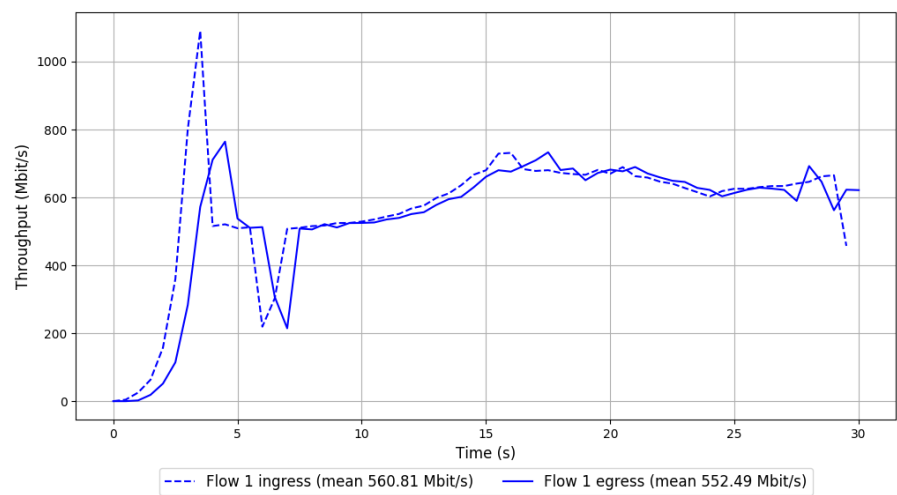
-- Flow 1:

Average throughput: 552.49 Mbit/s

95th percentile per-packet one-way delay: 210.209 ms

Loss rate: 1.48%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-06-19 06:08:59

End at: 2018-06-19 06:09:29

Local clock offset: 0.007 ms

Remote clock offset: -0.314 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.11 Mbit/s

95th percentile per-packet one-way delay: 289.028 ms

Loss rate: 7.65%

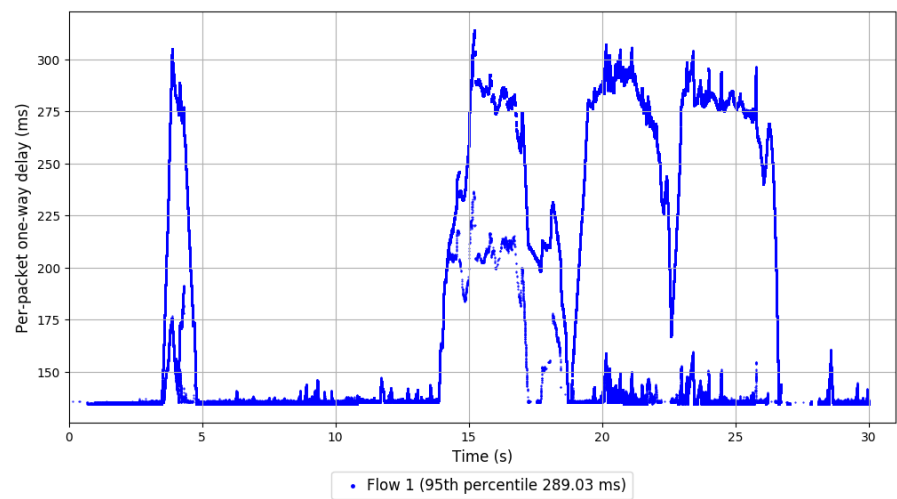
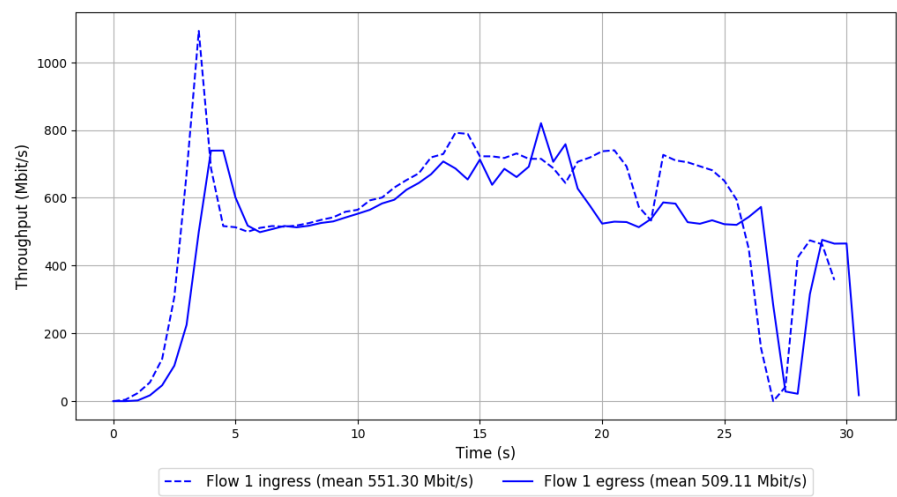
-- Flow 1:

Average throughput: 509.11 Mbit/s

95th percentile per-packet one-way delay: 289.028 ms

Loss rate: 7.65%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-19 06:30:14

End at: 2018-06-19 06:30:44

Local clock offset: 0.085 ms

Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-19 10:08:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 526.87 Mbit/s

95th percentile per-packet one-way delay: 157.752 ms

Loss rate: 1.04%

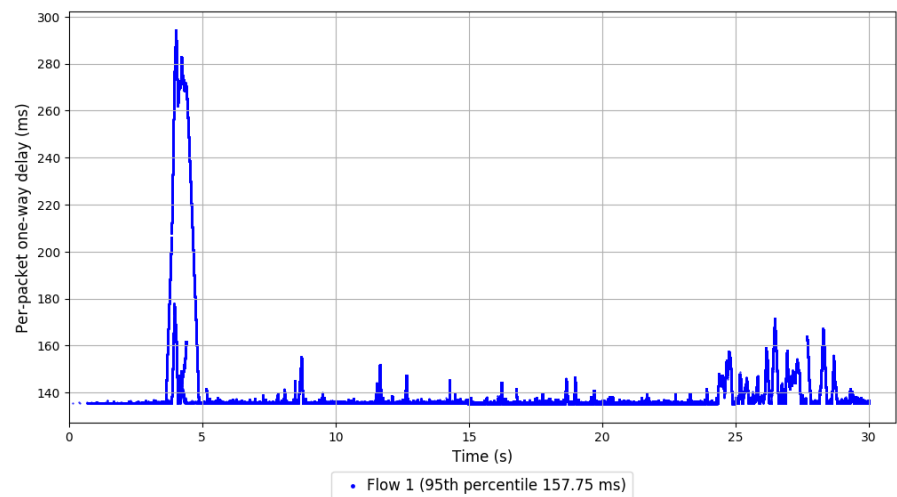
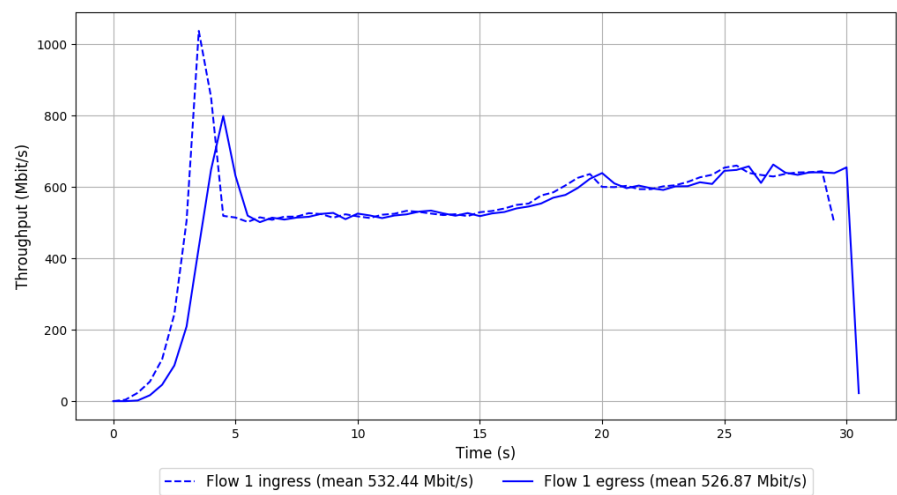
-- Flow 1:

Average throughput: 526.87 Mbit/s

95th percentile per-packet one-way delay: 157.752 ms

Loss rate: 1.04%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-19 06:51:43

End at: 2018-06-19 06:52:13

Local clock offset: 0.239 ms

Remote clock offset: 0.378 ms

Below is generated by plot.py at 2018-06-19 10:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 566.67 Mbit/s

95th percentile per-packet one-way delay: 209.340 ms

Loss rate: 0.96%

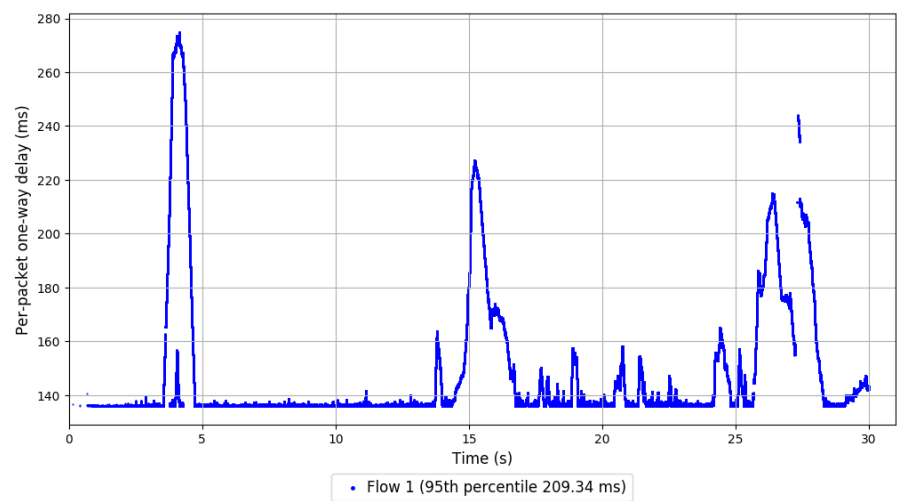
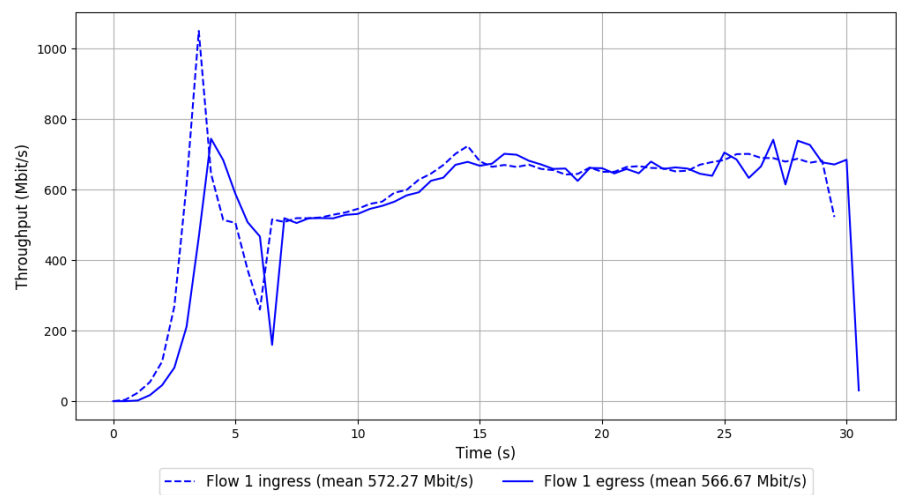
-- Flow 1:

Average throughput: 566.67 Mbit/s

95th percentile per-packet one-way delay: 209.340 ms

Loss rate: 0.96%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-19 07:13:18

End at: 2018-06-19 07:13:48

Local clock offset: 0.004 ms

Remote clock offset: -0.057 ms

Below is generated by plot.py at 2018-06-19 10:08:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 502.96 Mbit/s

95th percentile per-packet one-way delay: 147.797 ms

Loss rate: 0.61%

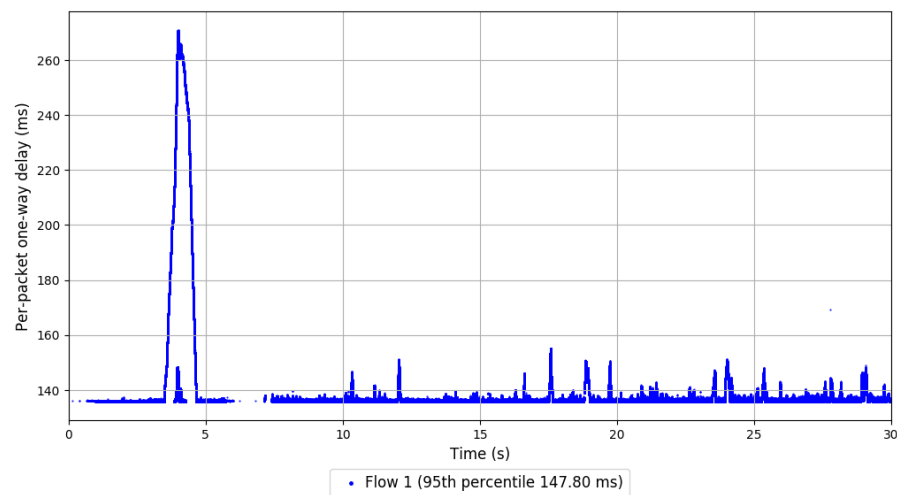
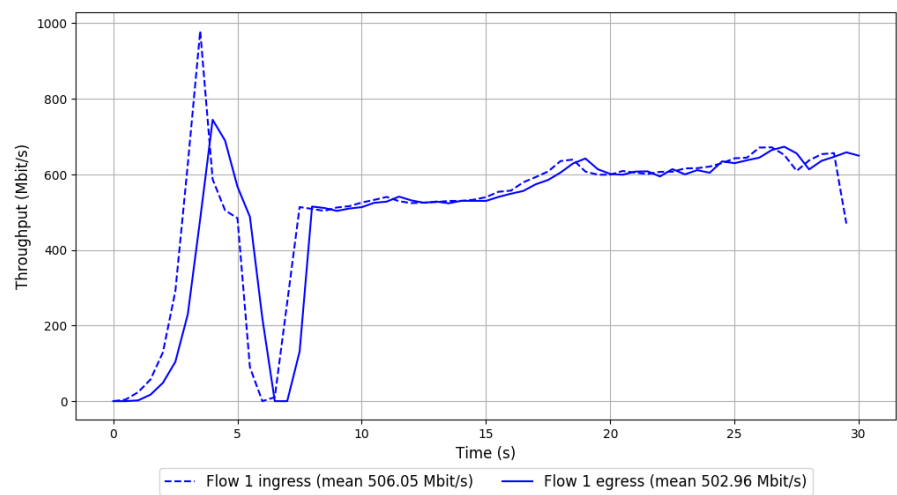
-- Flow 1:

Average throughput: 502.96 Mbit/s

95th percentile per-packet one-way delay: 147.797 ms

Loss rate: 0.61%

Run 5: Report of PCC-Allegro — Data Link

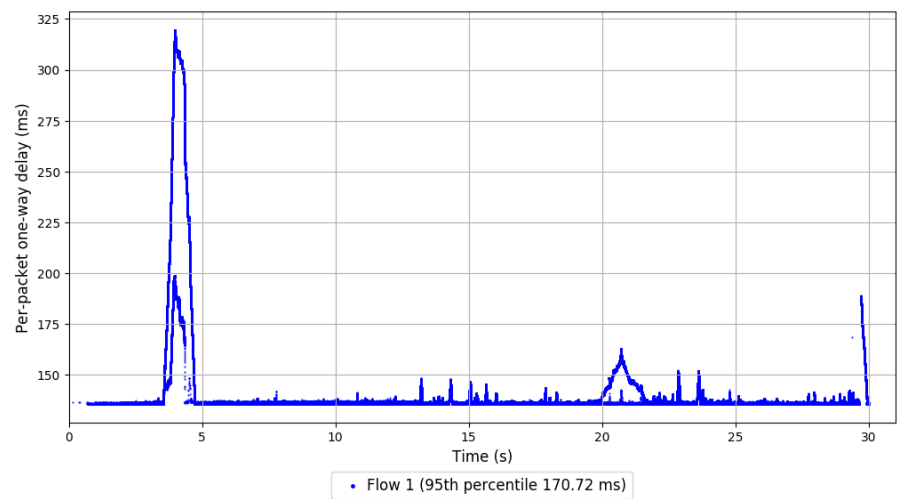
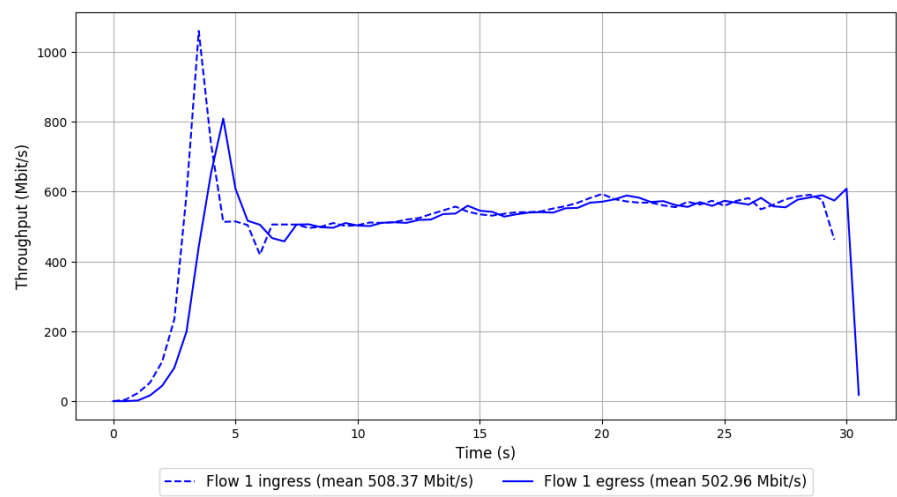


Run 6: Statistics of PCC-Allegro

Start at: 2018-06-19 07:35:01
End at: 2018-06-19 07:35:31
Local clock offset: 0.168 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-06-19 10:08:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 502.96 Mbit/s
95th percentile per-packet one-way delay: 170.720 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 502.96 Mbit/s
95th percentile per-packet one-way delay: 170.720 ms
Loss rate: 1.07%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-06-19 07:56:41

End at: 2018-06-19 07:57:11

Local clock offset: 0.209 ms

Remote clock offset: 0.458 ms

Below is generated by plot.py at 2018-06-19 10:14:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 514.17 Mbit/s

95th percentile per-packet one-way delay: 165.681 ms

Loss rate: 1.55%

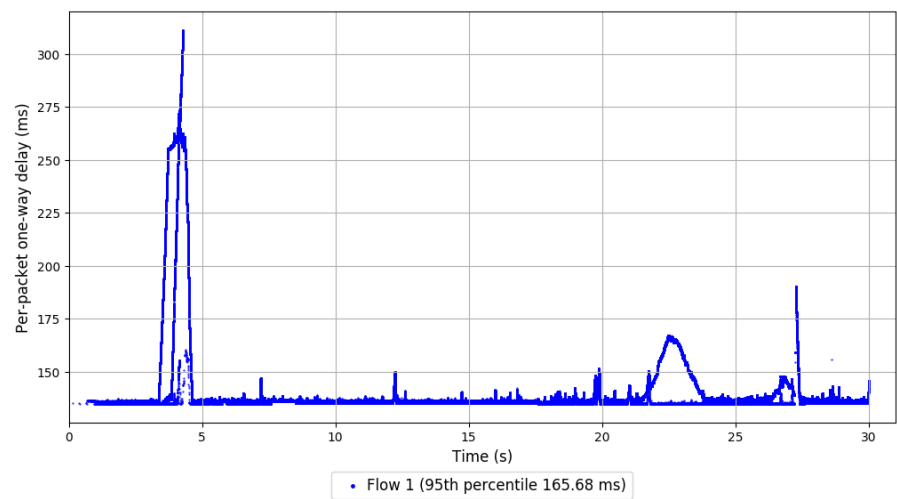
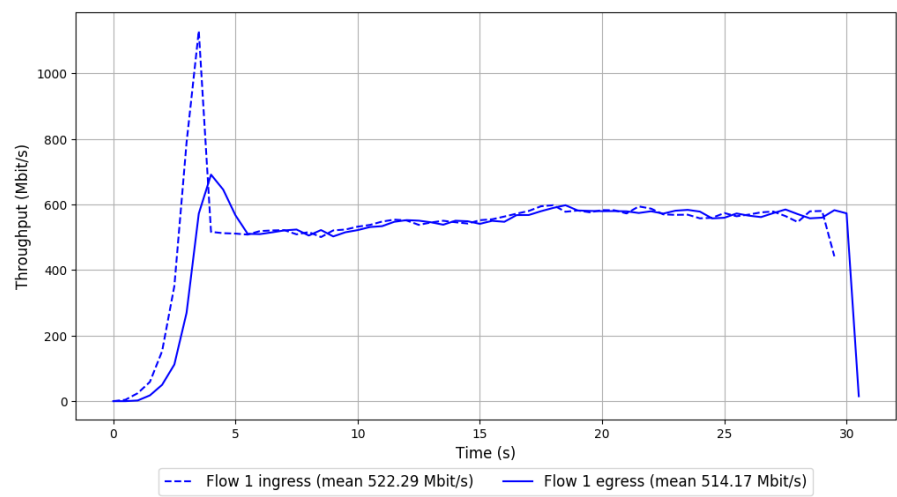
-- Flow 1:

Average throughput: 514.17 Mbit/s

95th percentile per-packet one-way delay: 165.681 ms

Loss rate: 1.55%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-19 08:17:35

End at: 2018-06-19 08:18:05

Local clock offset: 0.147 ms

Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-06-19 10:14:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 521.25 Mbit/s

95th percentile per-packet one-way delay: 222.123 ms

Loss rate: 2.50%

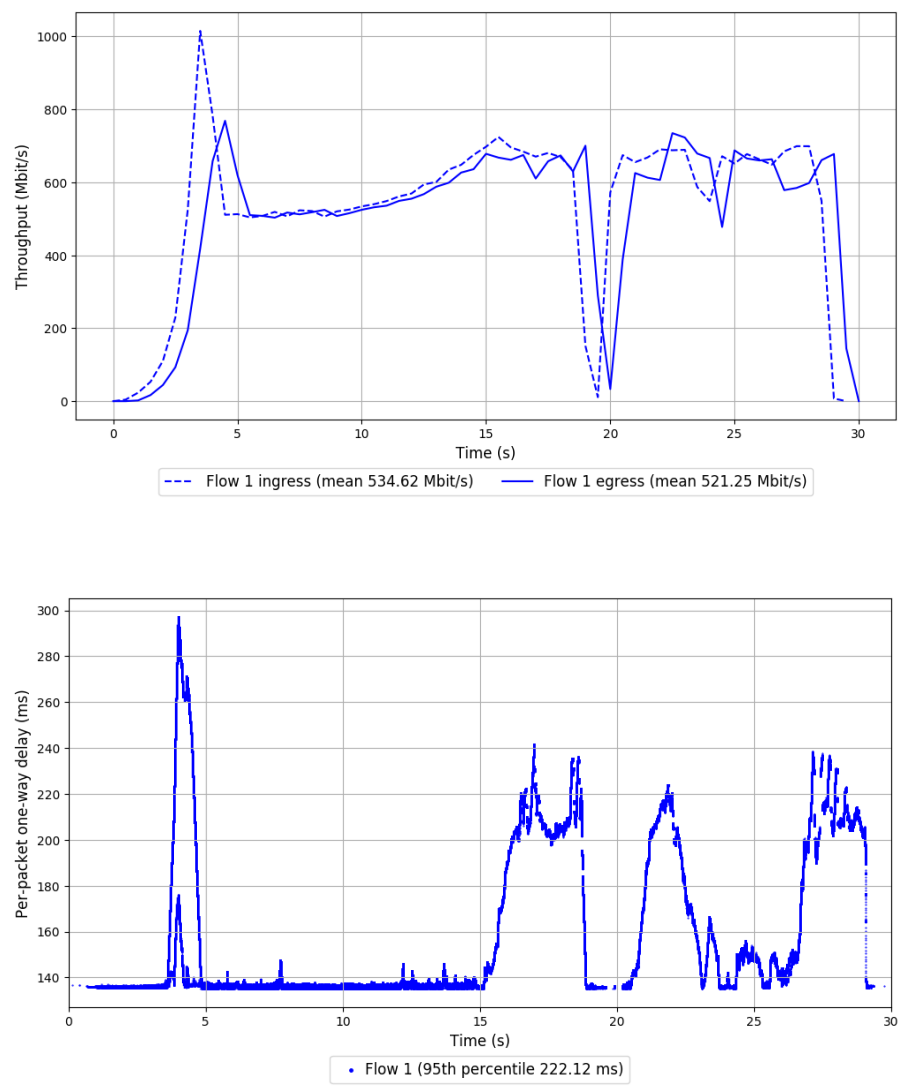
-- Flow 1:

Average throughput: 521.25 Mbit/s

95th percentile per-packet one-way delay: 222.123 ms

Loss rate: 2.50%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-06-19 08:39:09

End at: 2018-06-19 08:39:39

Local clock offset: 0.036 ms

Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-06-19 10:15:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 543.32 Mbit/s

95th percentile per-packet one-way delay: 198.679 ms

Loss rate: 0.98%

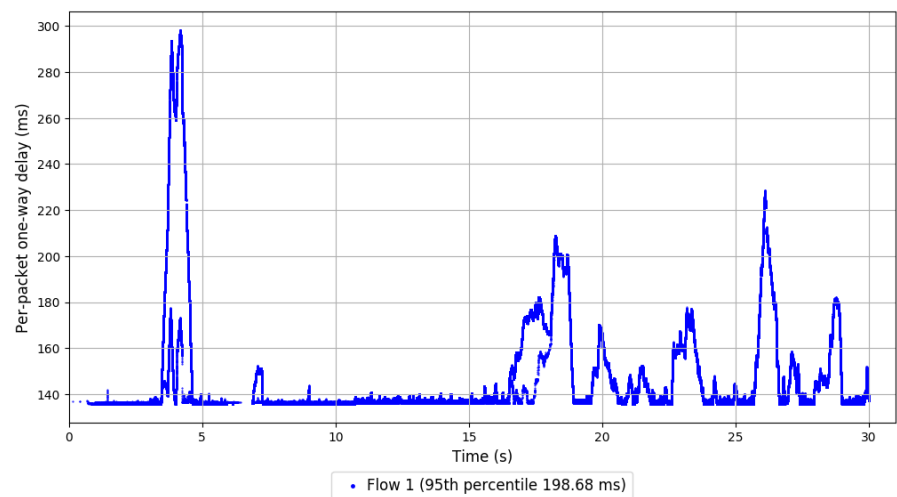
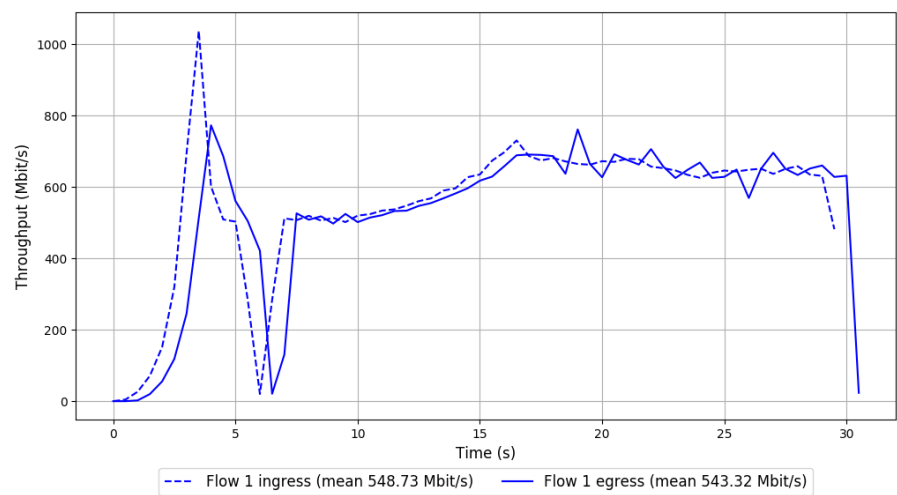
-- Flow 1:

Average throughput: 543.32 Mbit/s

95th percentile per-packet one-way delay: 198.679 ms

Loss rate: 0.98%

Run 9: Report of PCC-Allegro — Data Link

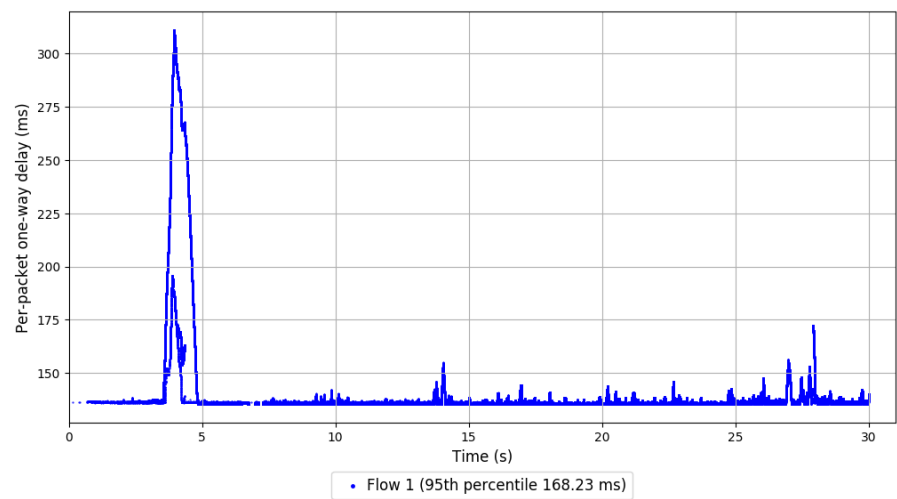
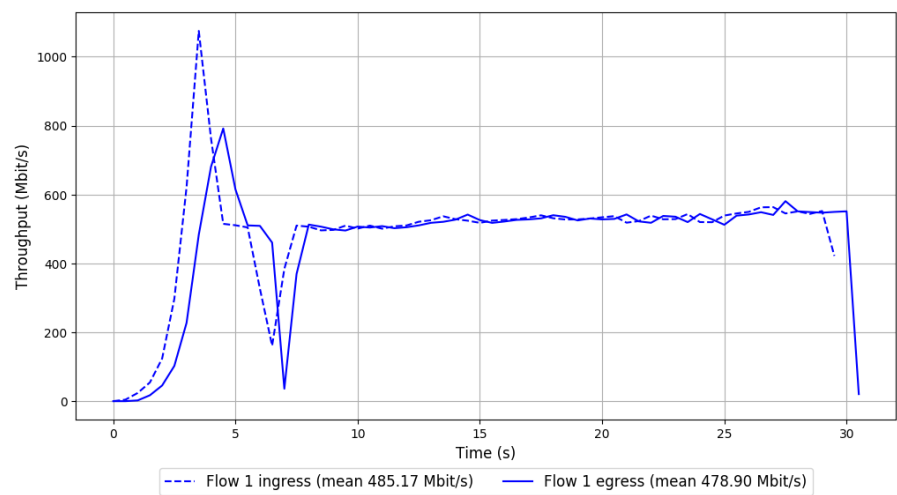


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-19 09:00:25
End at: 2018-06-19 09:00:55
Local clock offset: -0.143 ms
Remote clock offset: -0.432 ms

Below is generated by plot.py at 2018-06-19 10:15:45
Datalink statistics
-- Total of 1 flow:
Average throughput: 478.90 Mbit/s
95th percentile per-packet one-way delay: 168.228 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 478.90 Mbit/s
95th percentile per-packet one-way delay: 168.228 ms
Loss rate: 1.29%

Run 10: Report of PCC-Allegro — Data Link

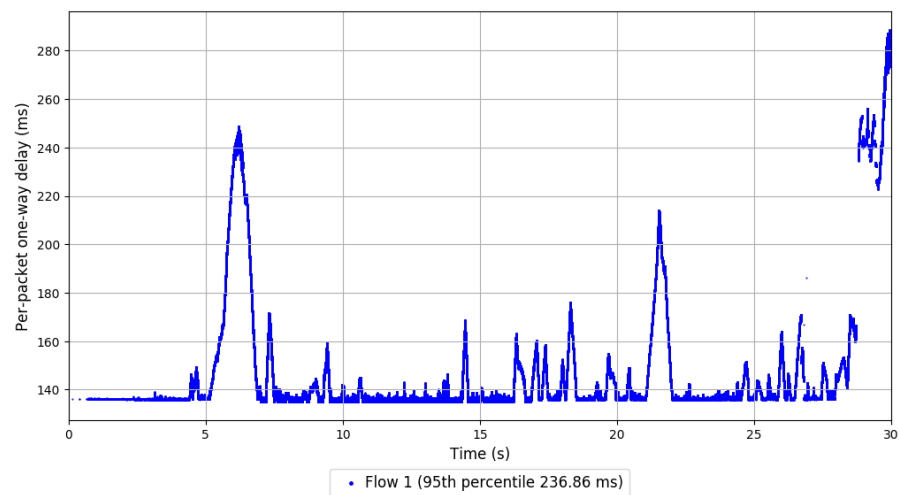
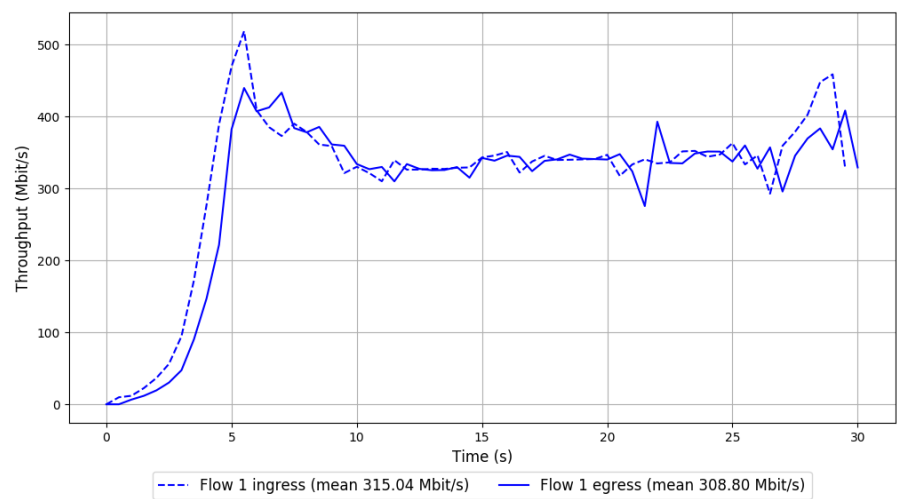


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-19 05:50:22
End at: 2018-06-19 05:50:52
Local clock offset: -0.19 ms
Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-06-19 10:16:49
# Datalink statistics
-- Total of 1 flow:
Average throughput: 308.80 Mbit/s
95th percentile per-packet one-way delay: 236.860 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 308.80 Mbit/s
95th percentile per-packet one-way delay: 236.860 ms
Loss rate: 1.98%
```

Run 1: Report of PCC-Expr — Data Link

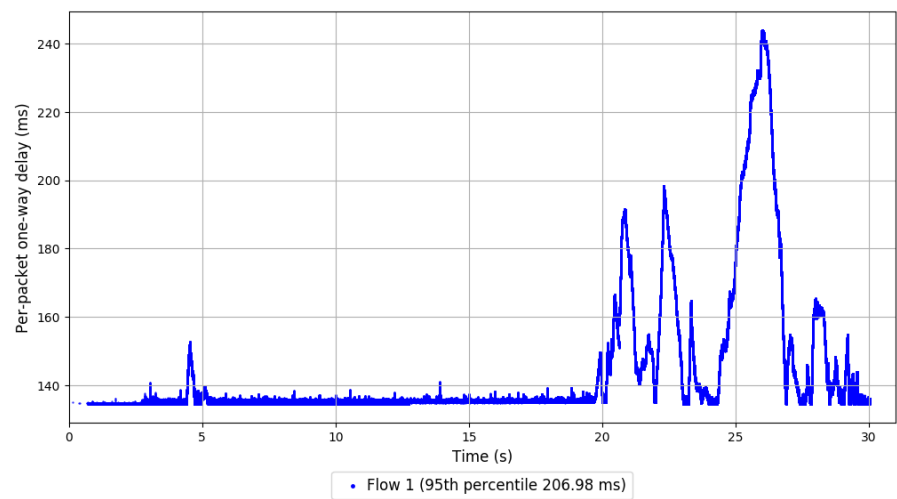
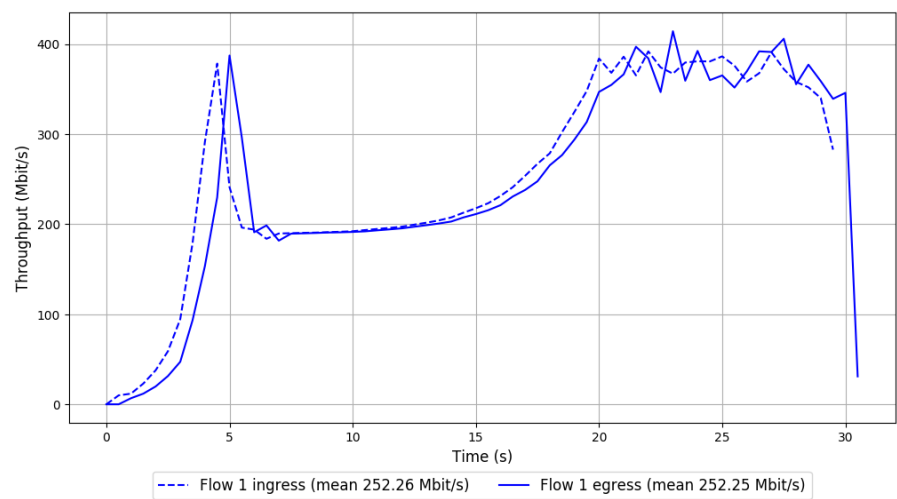


Run 2: Statistics of PCC-Expr

Start at: 2018-06-19 06:11:47
End at: 2018-06-19 06:12:17
Local clock offset: 0.034 ms
Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-06-19 10:16:49
Datalink statistics
-- Total of 1 flow:
Average throughput: 252.25 Mbit/s
95th percentile per-packet one-way delay: 206.978 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 252.25 Mbit/s
95th percentile per-packet one-way delay: 206.978 ms
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-19 06:33:07

End at: 2018-06-19 06:33:37

Local clock offset: 0.04 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-06-19 10:18:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 333.02 Mbit/s

95th percentile per-packet one-way delay: 217.807 ms

Loss rate: 0.25%

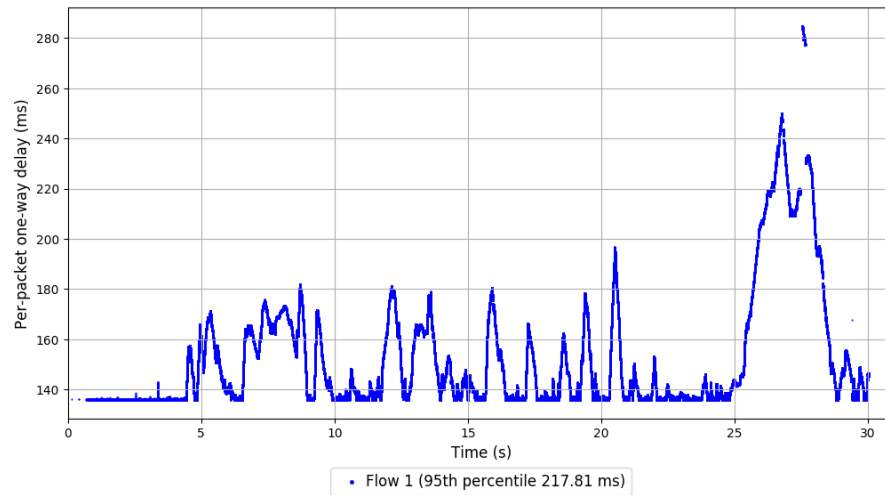
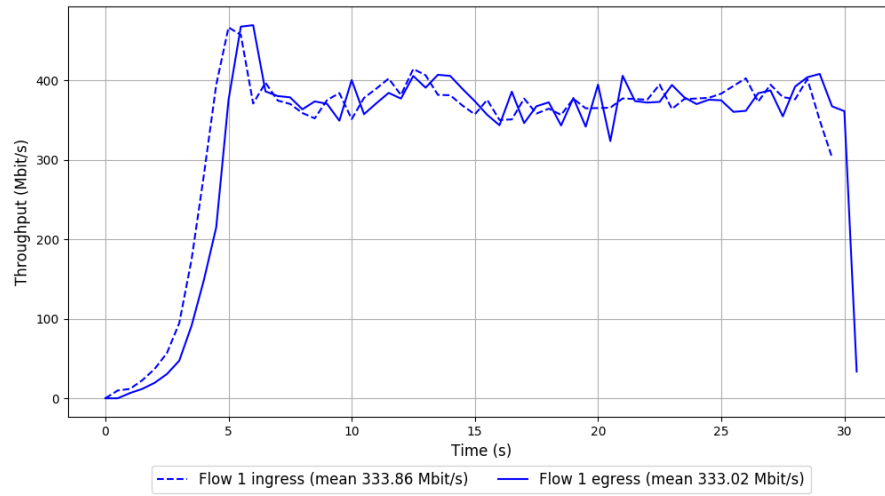
-- Flow 1:

Average throughput: 333.02 Mbit/s

95th percentile per-packet one-way delay: 217.807 ms

Loss rate: 0.25%

Run 3: Report of PCC-Expr — Data Link

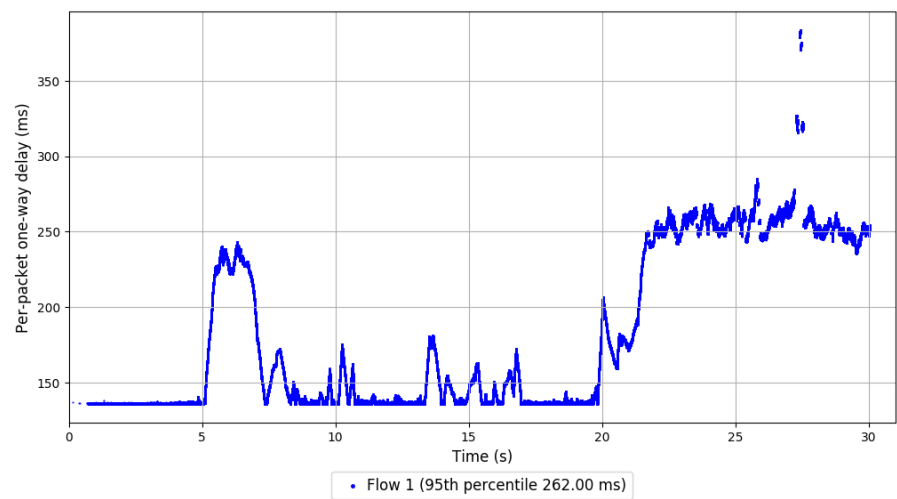
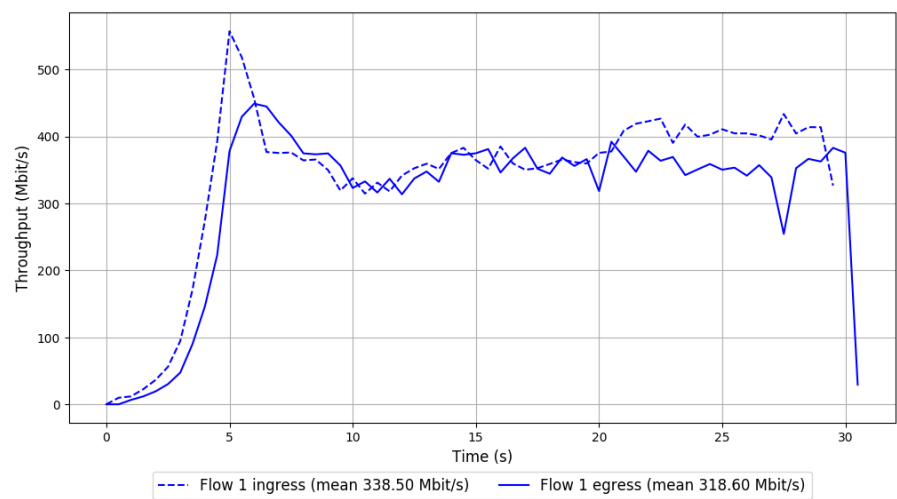


Run 4: Statistics of PCC-Expr

Start at: 2018-06-19 06:54:39
End at: 2018-06-19 06:55:09
Local clock offset: -0.127 ms
Remote clock offset: -0.366 ms

Below is generated by plot.py at 2018-06-19 10:18:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 318.60 Mbit/s
95th percentile per-packet one-way delay: 261.995 ms
Loss rate: 5.88%
-- Flow 1:
Average throughput: 318.60 Mbit/s
95th percentile per-packet one-way delay: 261.995 ms
Loss rate: 5.88%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-19 07:16:10

End at: 2018-06-19 07:16:40

Local clock offset: -0.13 ms

Remote clock offset: 0.398 ms

Below is generated by plot.py at 2018-06-19 10:24:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 301.81 Mbit/s

95th percentile per-packet one-way delay: 240.992 ms

Loss rate: 0.10%

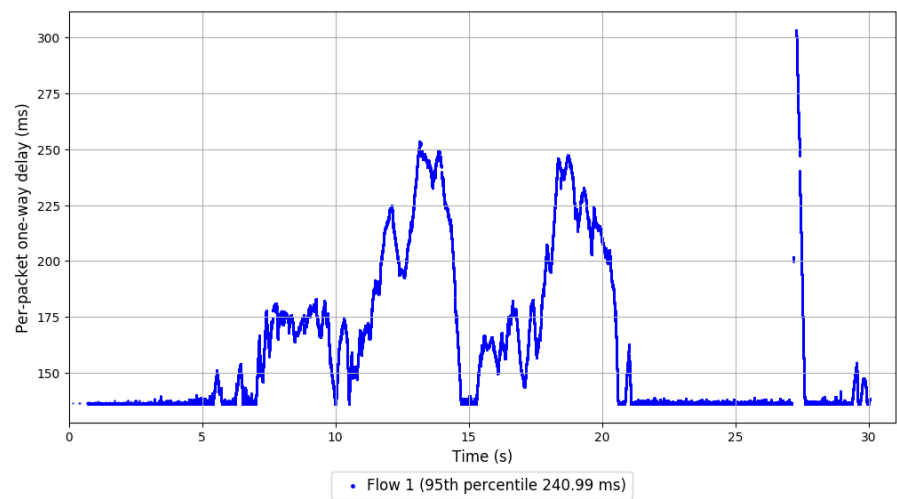
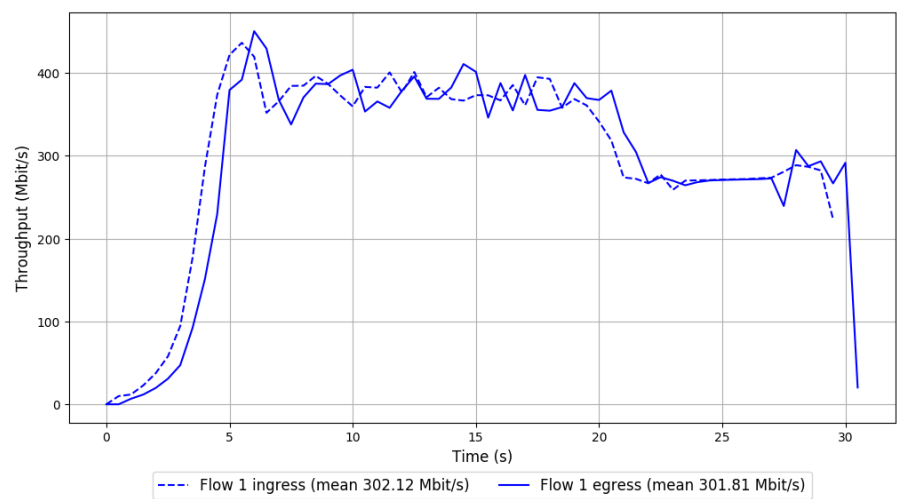
-- Flow 1:

Average throughput: 301.81 Mbit/s

95th percentile per-packet one-way delay: 240.992 ms

Loss rate: 0.10%

Run 5: Report of PCC-Expr — Data Link

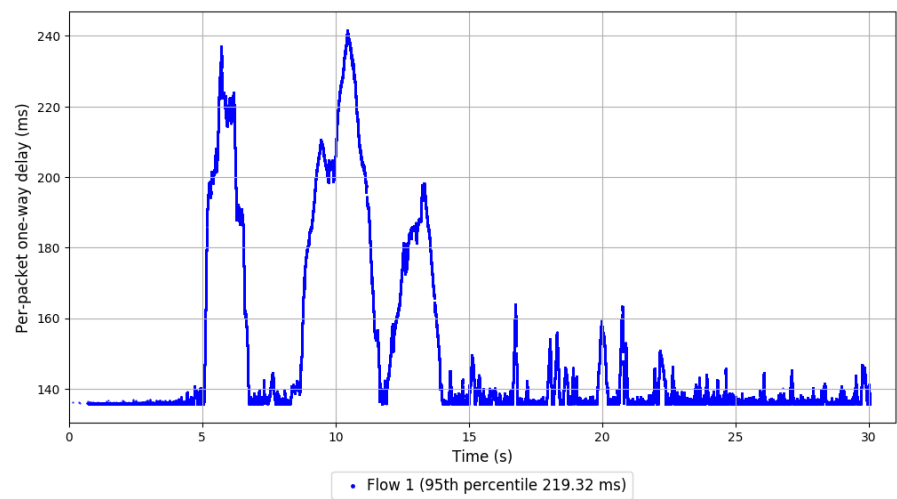
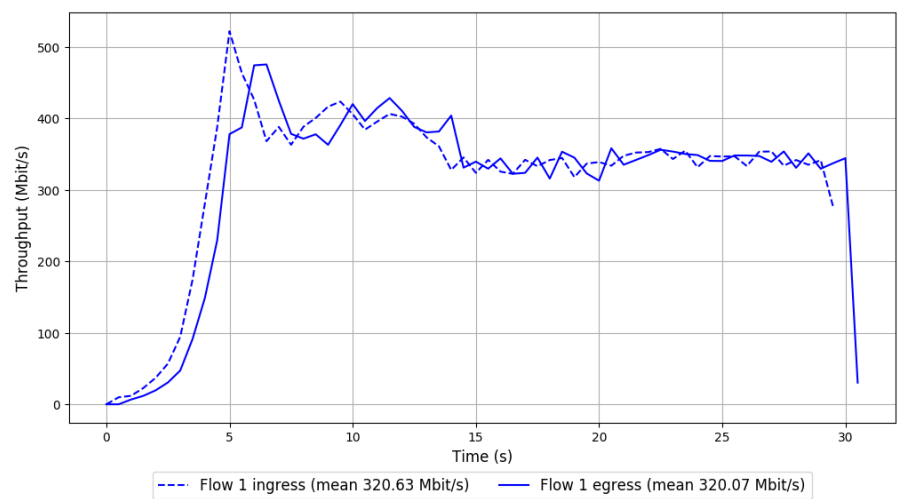


Run 6: Statistics of PCC-Expr

Start at: 2018-06-19 07:37:49
End at: 2018-06-19 07:38:19
Local clock offset: 0.153 ms
Remote clock offset: -0.007 ms

Below is generated by plot.py at 2018-06-19 10:24:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 320.07 Mbit/s
95th percentile per-packet one-way delay: 219.317 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 320.07 Mbit/s
95th percentile per-packet one-way delay: 219.317 ms
Loss rate: 0.17%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-19 07:59:29

End at: 2018-06-19 07:59:59

Local clock offset: 0.036 ms

Remote clock offset: 0.38 ms

Below is generated by plot.py at 2018-06-19 10:24:53

Datalink statistics

-- Total of 1 flow:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 136.977 ms

Loss rate: 0.00%

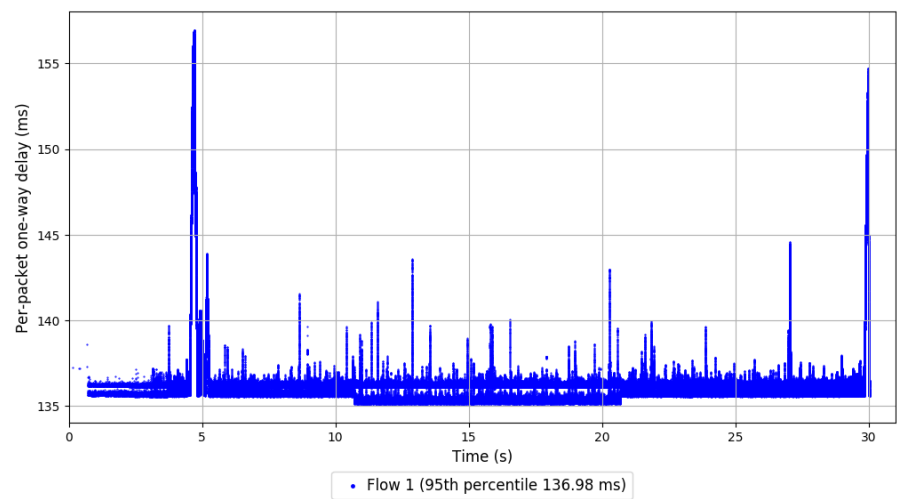
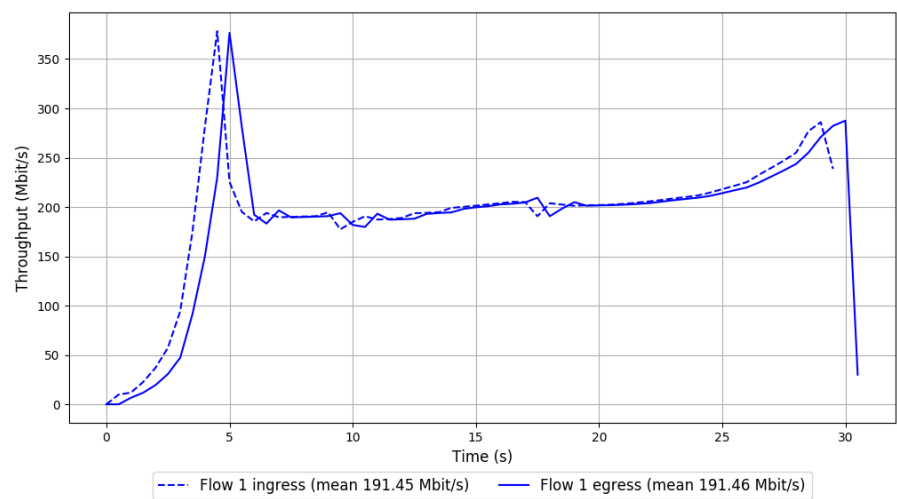
-- Flow 1:

Average throughput: 191.46 Mbit/s

95th percentile per-packet one-way delay: 136.977 ms

Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link

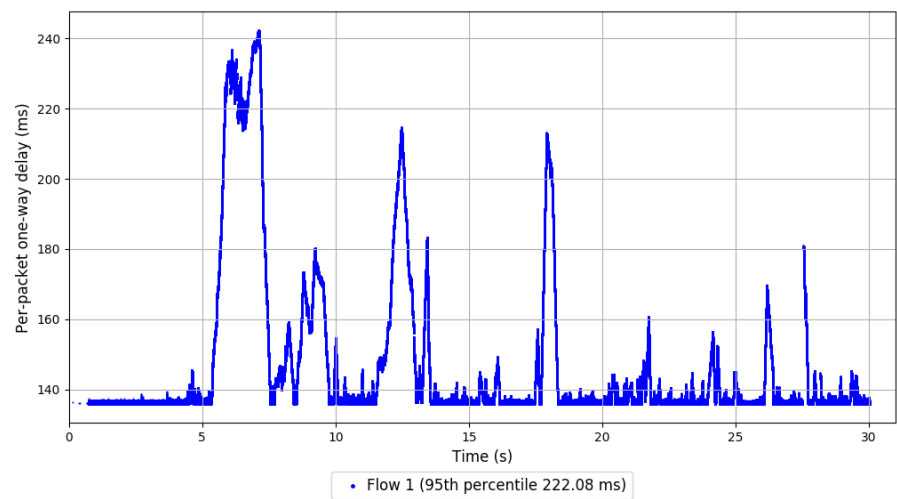
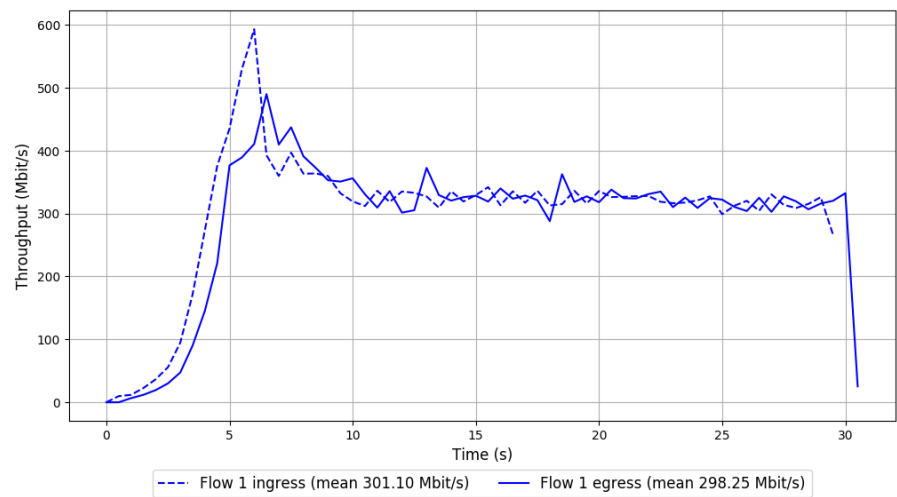


Run 8: Statistics of PCC-Expr

Start at: 2018-06-19 08:20:26
End at: 2018-06-19 08:20:56
Local clock offset: -0.003 ms
Remote clock offset: -0.019 ms

Below is generated by plot.py at 2018-06-19 10:24:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.25 Mbit/s
95th percentile per-packet one-way delay: 222.081 ms
Loss rate: 0.95%
-- Flow 1:
Average throughput: 298.25 Mbit/s
95th percentile per-packet one-way delay: 222.081 ms
Loss rate: 0.95%

Run 8: Report of PCC-Expr — Data Link

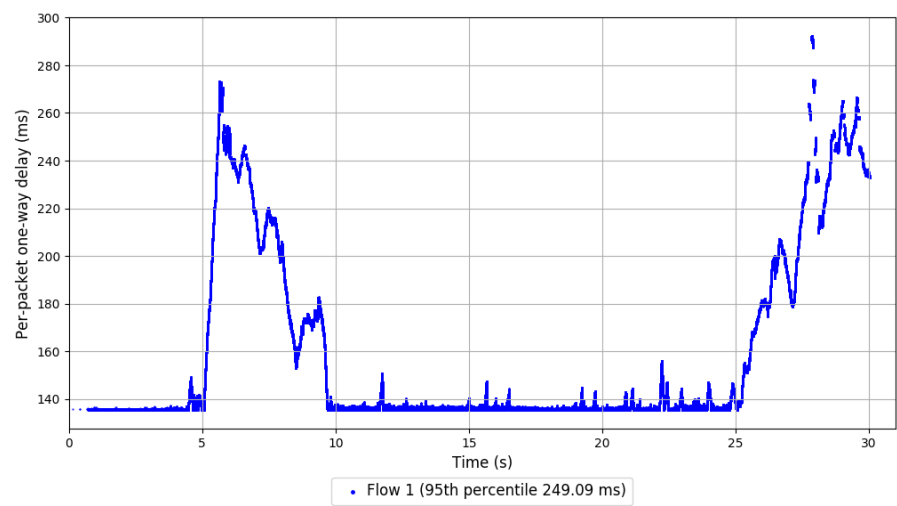
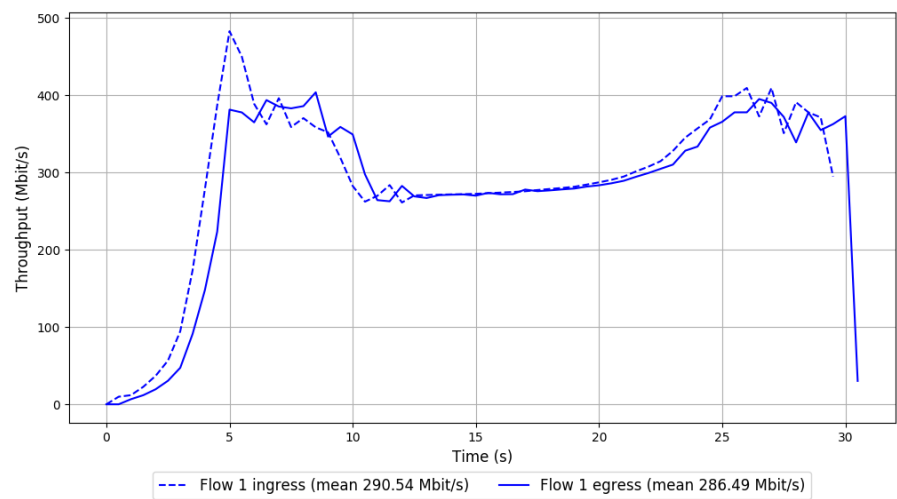


Run 9: Statistics of PCC-Expr

Start at: 2018-06-19 08:42:01
End at: 2018-06-19 08:42:31
Local clock offset: 0.001 ms
Remote clock offset: -0.402 ms

Below is generated by plot.py at 2018-06-19 10:24:53
Datalink statistics
-- Total of 1 flow:
Average throughput: 286.49 Mbit/s
95th percentile per-packet one-way delay: 249.090 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 286.49 Mbit/s
95th percentile per-packet one-way delay: 249.090 ms
Loss rate: 1.39%

Run 9: Report of PCC-Expr — Data Link

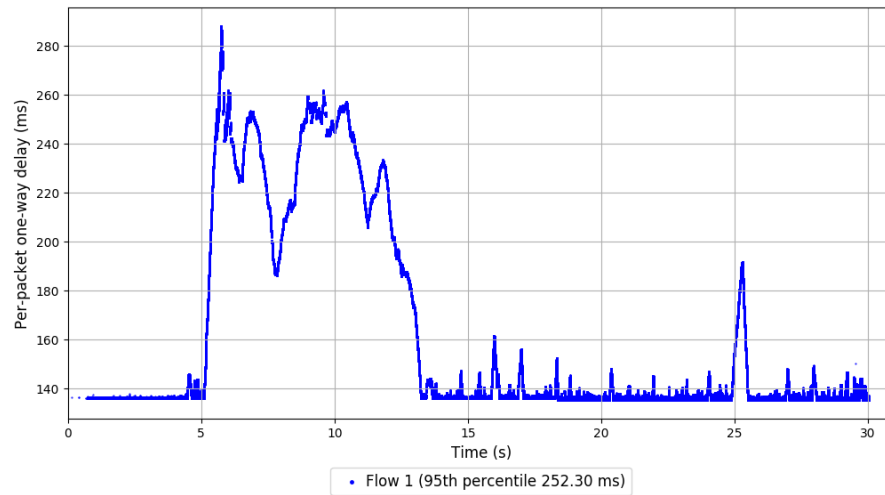
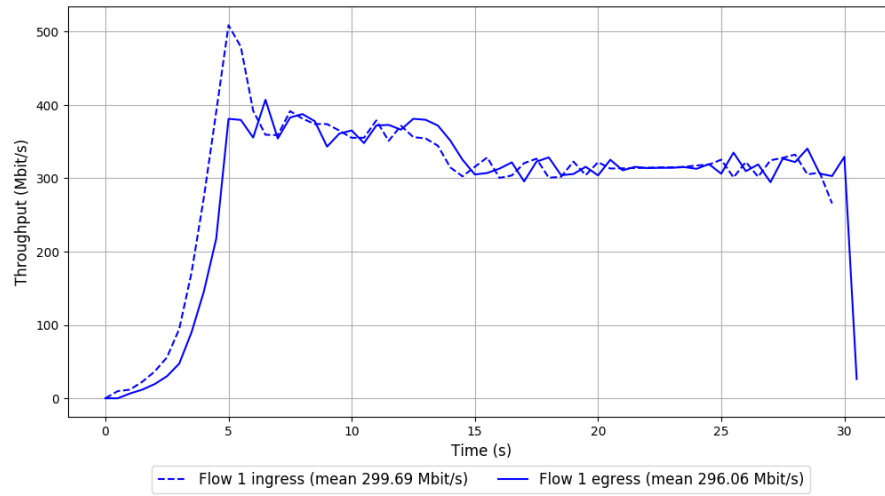


Run 10: Statistics of PCC-Expr

Start at: 2018-06-19 09:03:11
End at: 2018-06-19 09:03:41
Local clock offset: 0.013 ms
Remote clock offset: -0.452 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 296.06 Mbit/s
95th percentile per-packet one-way delay: 252.301 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 296.06 Mbit/s
95th percentile per-packet one-way delay: 252.301 ms
Loss rate: 1.21%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

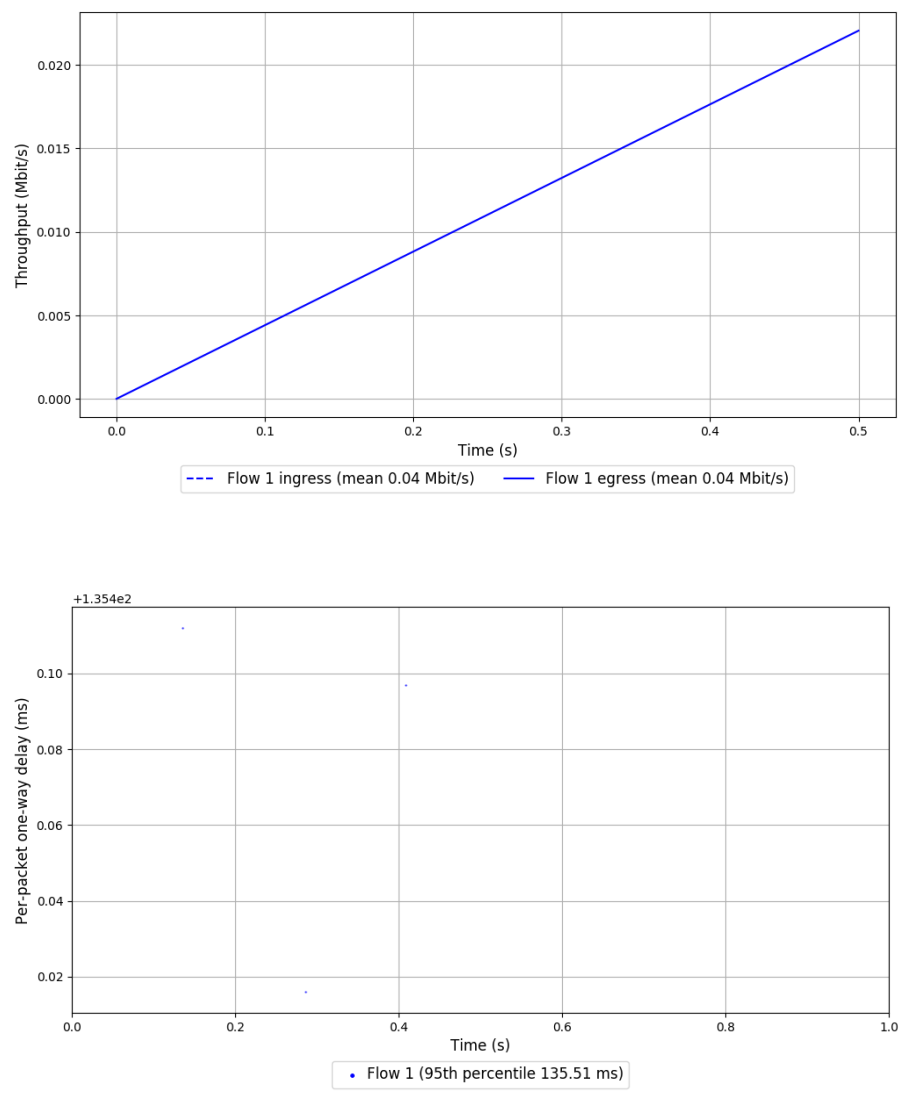
Start at: 2018-06-19 06:03:23

End at: 2018-06-19 06:03:53

Local clock offset: 0.095 ms

Remote clock offset: -0.311 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-06-19 06:24:29

End at: 2018-06-19 06:24:59

Local clock offset: 0.051 ms

Remote clock offset: 0.032 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 135.945 ms

Loss rate: 0.00%

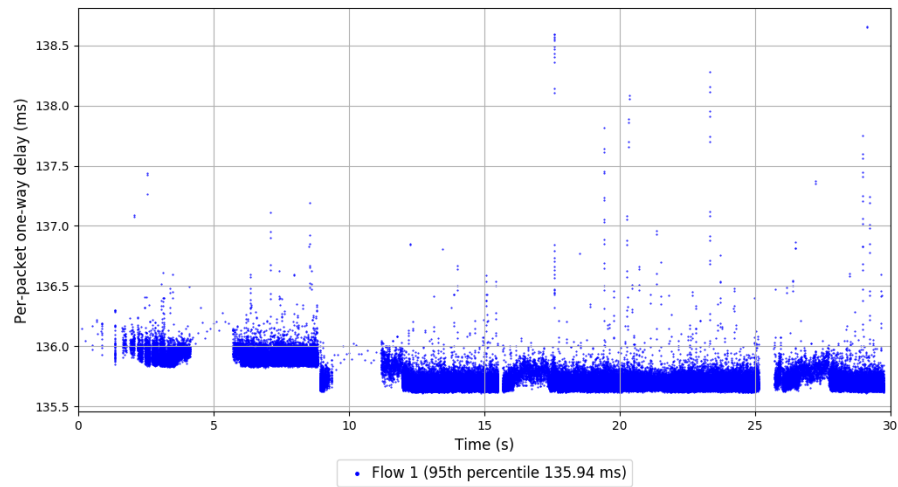
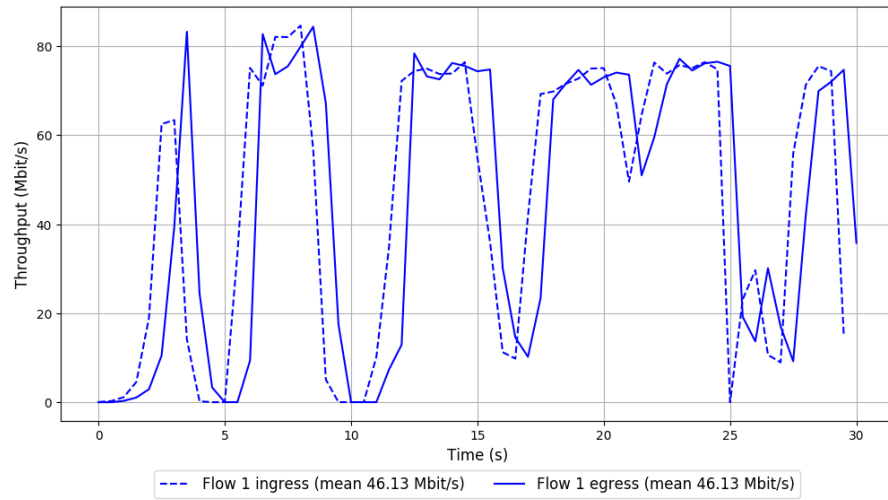
-- Flow 1:

Average throughput: 46.13 Mbit/s

95th percentile per-packet one-way delay: 135.945 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

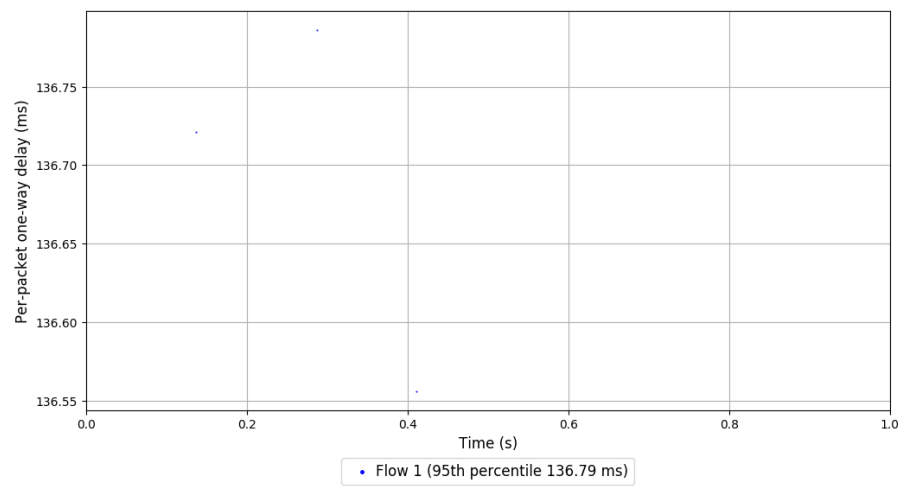
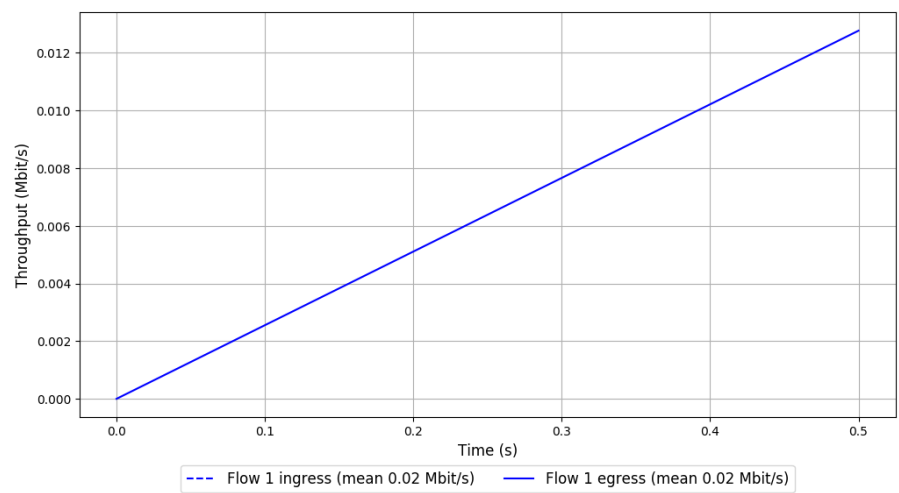
Start at: 2018-06-19 06:46:14

End at: 2018-06-19 06:46:44

Local clock offset: -0.0 ms

Remote clock offset: -0.004 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-19 07:07:38

End at: 2018-06-19 07:08:08

Local clock offset: 0.017 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 136.515 ms

Loss rate: 0.00%

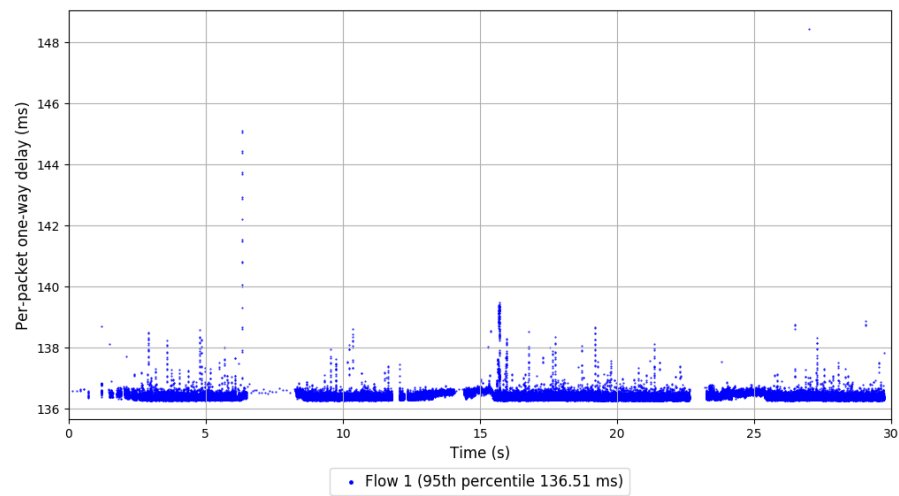
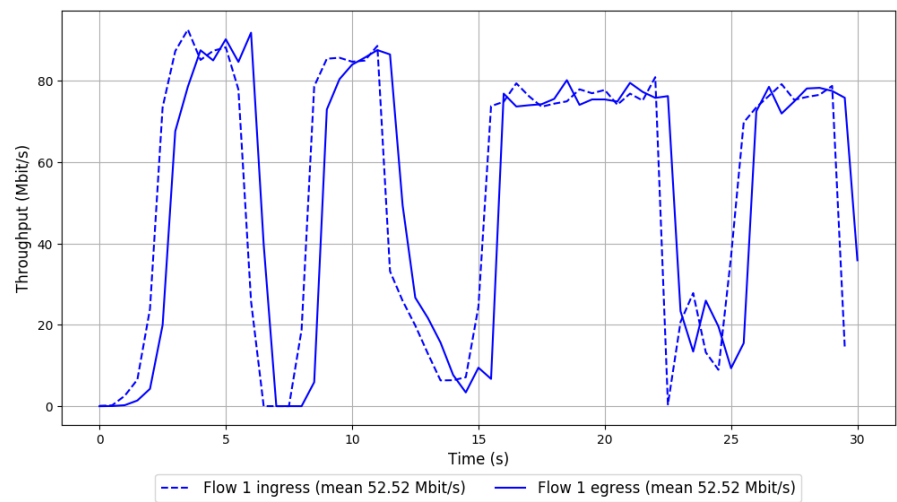
-- Flow 1:

Average throughput: 52.52 Mbit/s

95th percentile per-packet one-way delay: 136.515 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-19 07:29:20

End at: 2018-06-19 07:29:50

Local clock offset: 0.043 ms

Remote clock offset: -0.348 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 0.00%

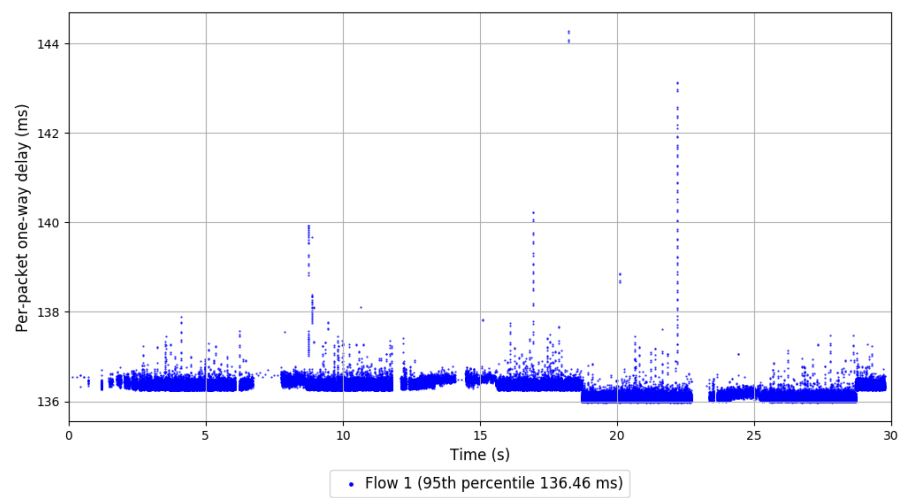
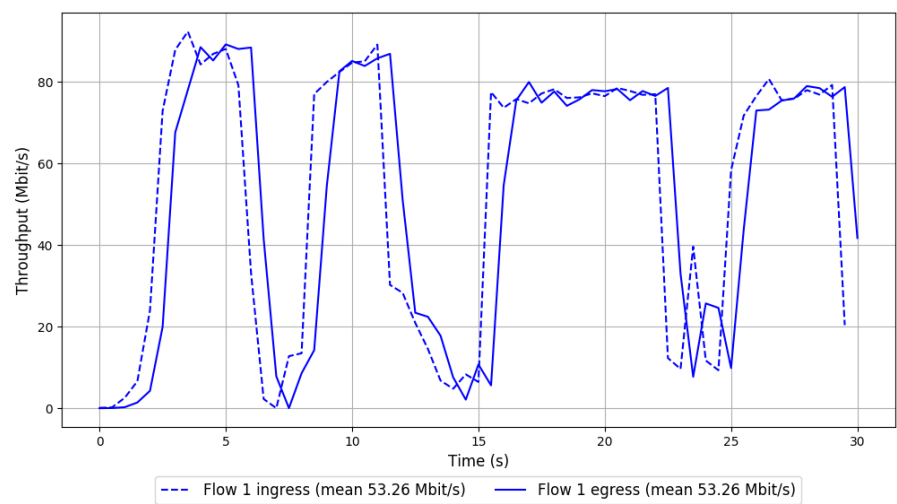
-- Flow 1:

Average throughput: 53.26 Mbit/s

95th percentile per-packet one-way delay: 136.456 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

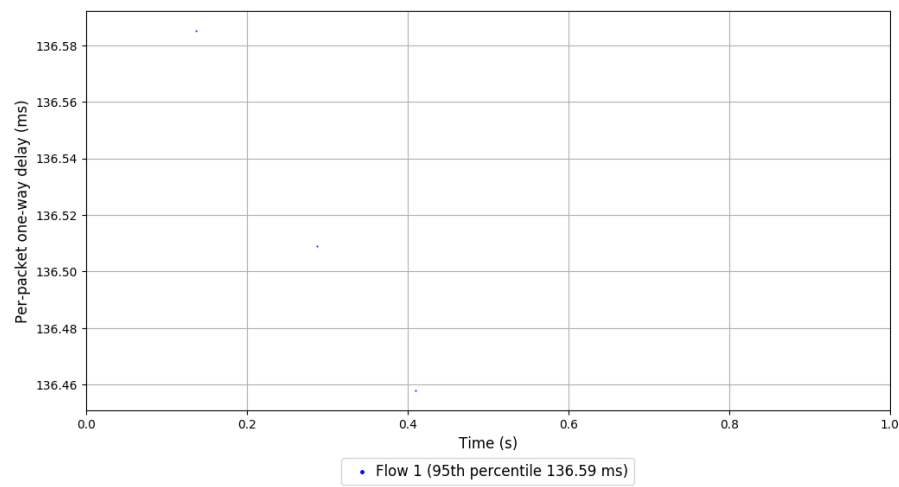
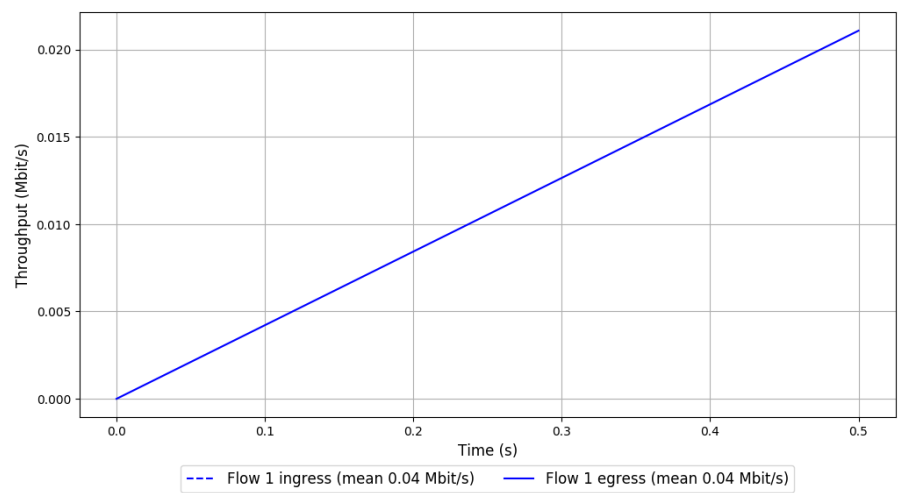
Start at: 2018-06-19 07:50:58

End at: 2018-06-19 07:51:28

Local clock offset: 0.074 ms

Remote clock offset: -0.049 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

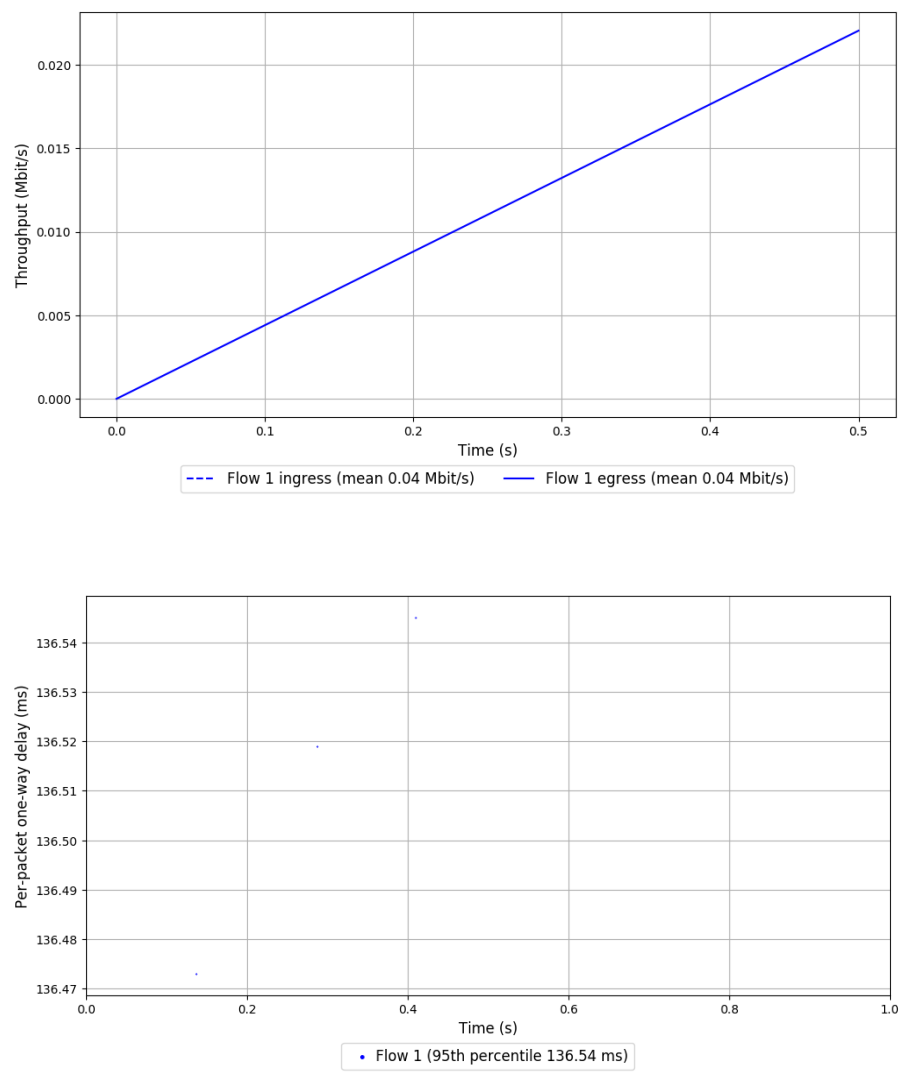
Start at: 2018-06-19 08:12:00

End at: 2018-06-19 08:12:30

Local clock offset: 0.151 ms

Remote clock offset: 0.024 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

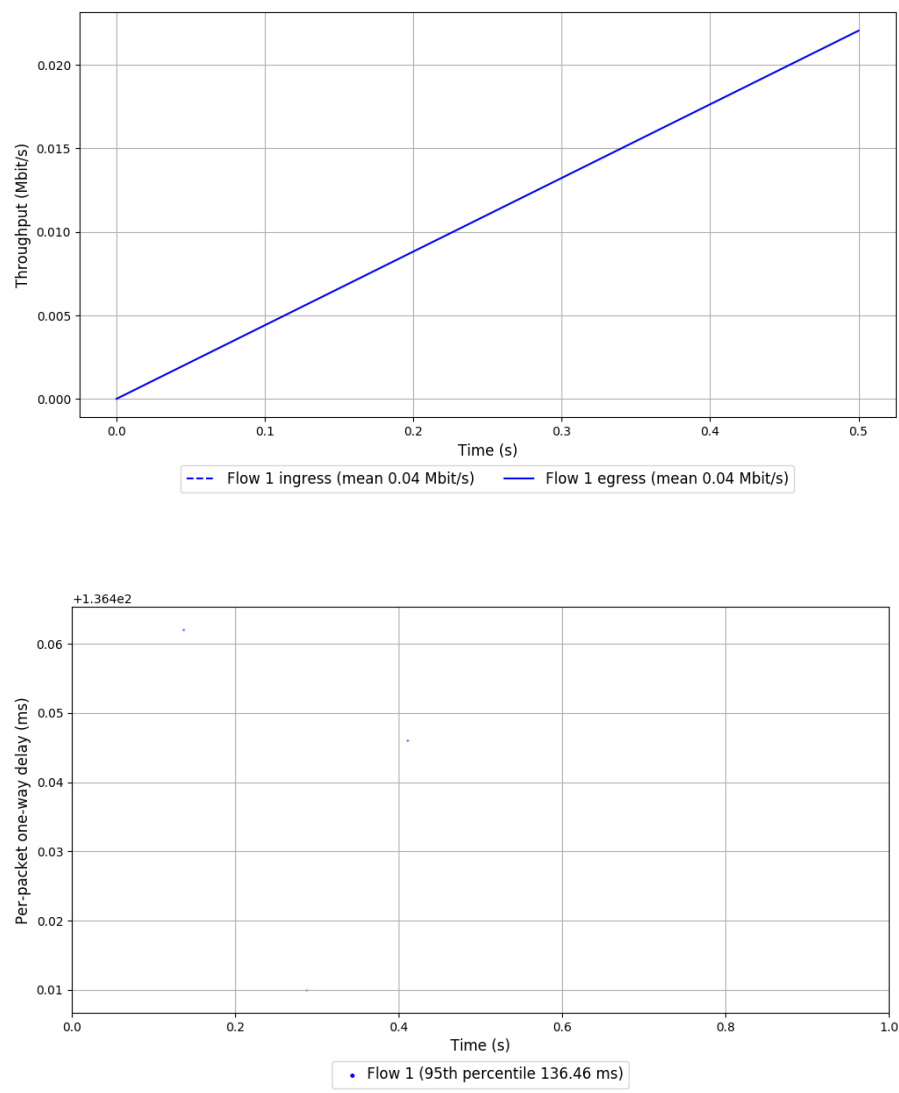
Start at: 2018-06-19 08:33:34

End at: 2018-06-19 08:34:04

Local clock offset: 0.301 ms

Remote clock offset: -0.029 ms

Run 8: Report of QUIC Cubic — Data Link

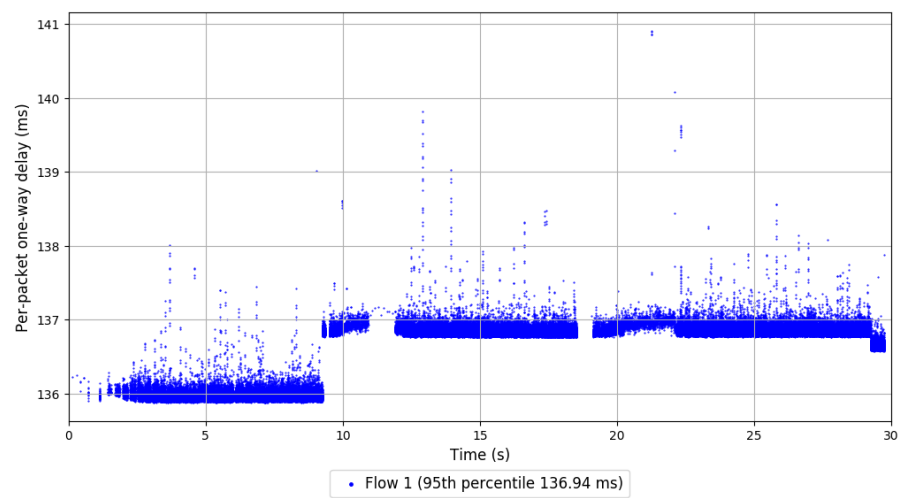
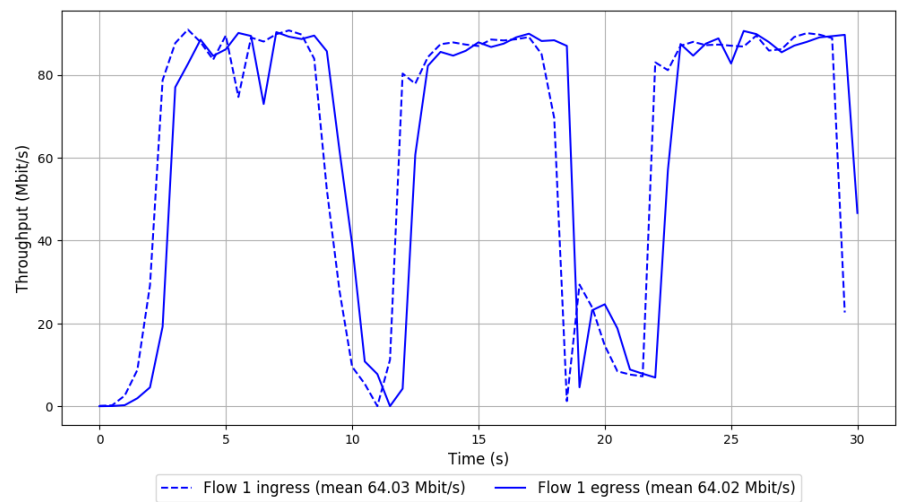


Run 9: Statistics of QUIC Cubic

Start at: 2018-06-19 08:54:50
End at: 2018-06-19 08:55:20
Local clock offset: -0.381 ms
Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 136.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 64.02 Mbit/s
95th percentile per-packet one-way delay: 136.938 ms
Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link

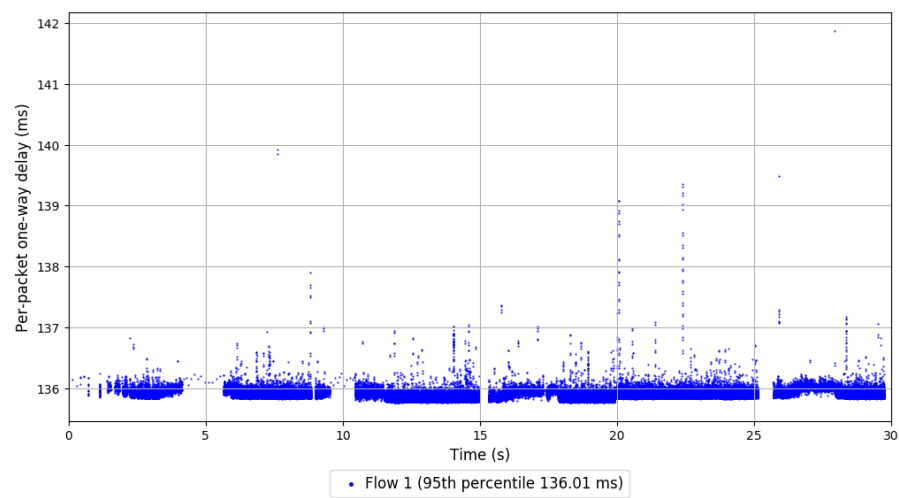
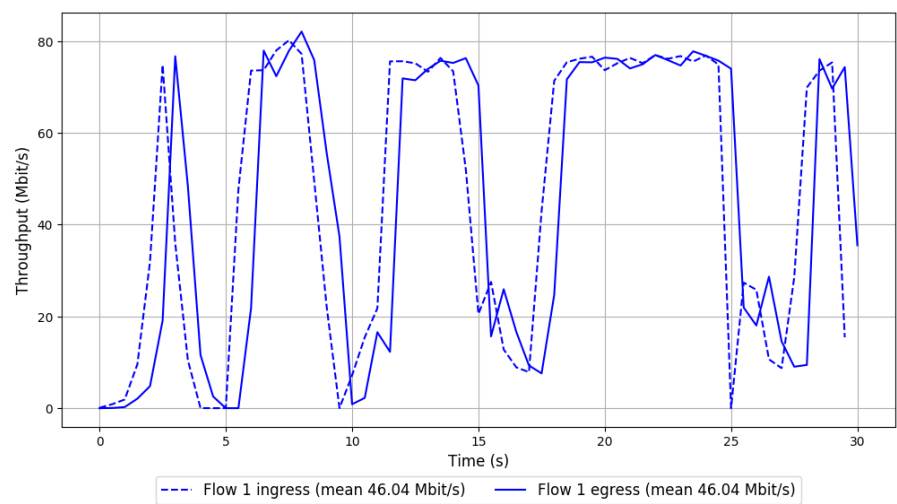


Run 10: Statistics of QUIC Cubic

Start at: 2018-06-19 09:16:19
End at: 2018-06-19 09:16:49
Local clock offset: -0.138 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 136.006 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 46.04 Mbit/s
95th percentile per-packet one-way delay: 136.006 ms
Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

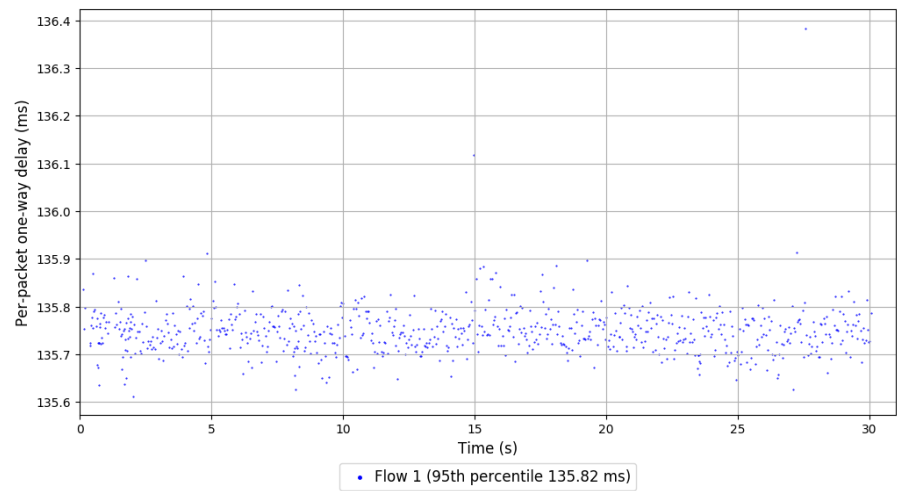
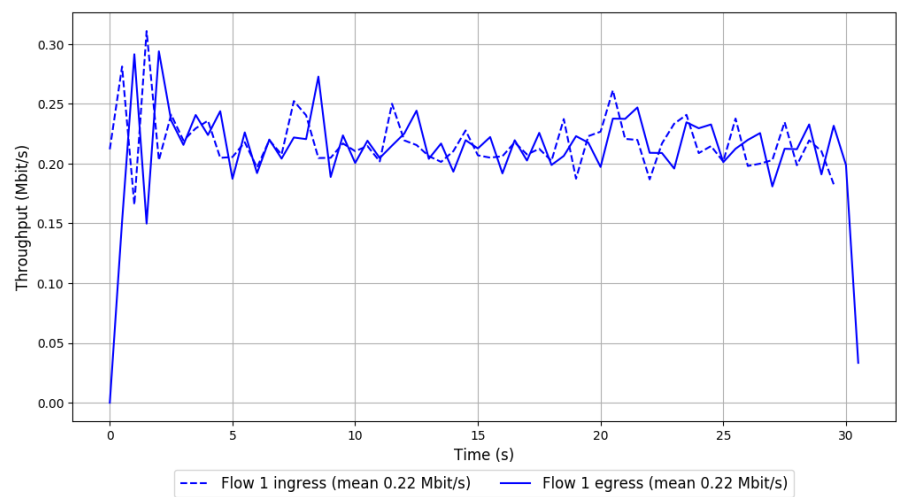


Run 1: Statistics of SCReAM

Start at: 2018-06-19 05:59:36
End at: 2018-06-19 06:00:06
Local clock offset: 0.058 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.824 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.824 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-19 06:21:01

End at: 2018-06-19 06:21:31

Local clock offset: -0.02 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.267 ms

Loss rate: 0.00%

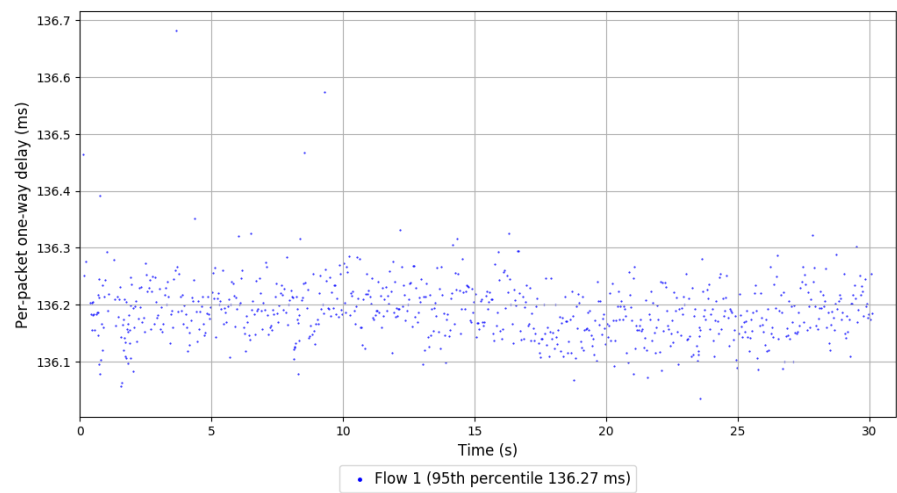
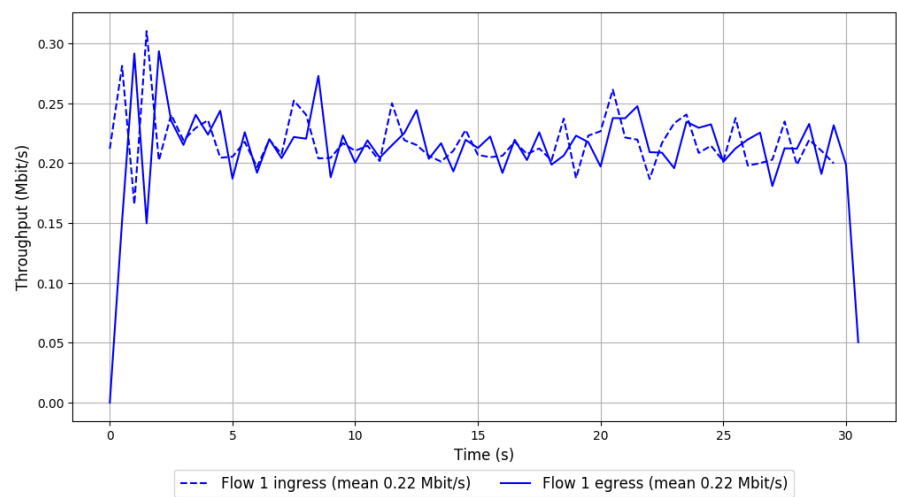
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.267 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

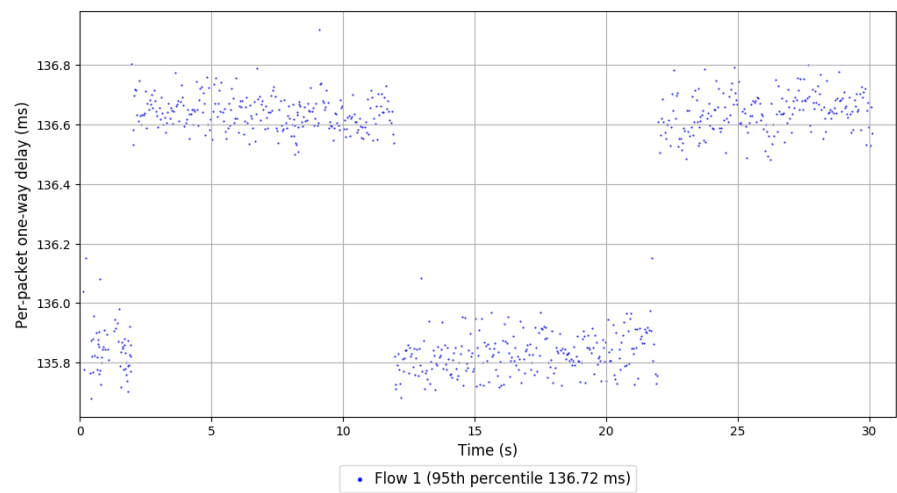
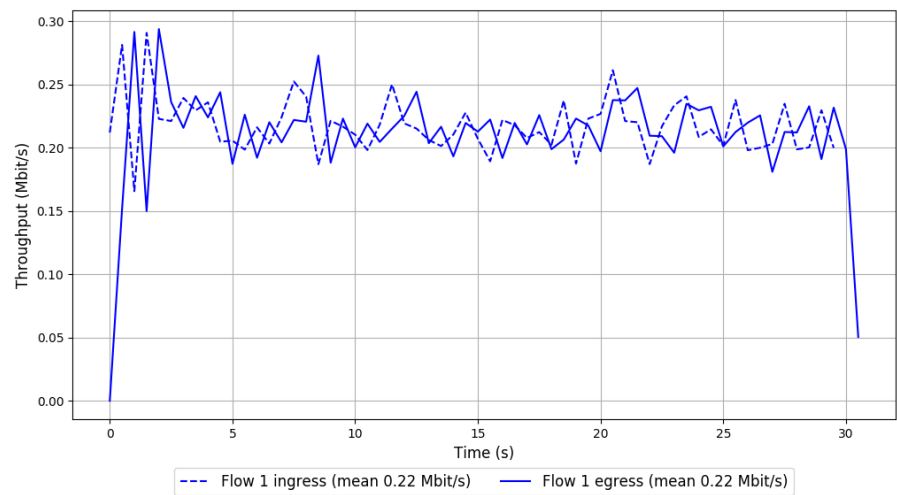


Run 3: Statistics of SCReAM

Start at: 2018-06-19 06:42:28
End at: 2018-06-19 06:42:58
Local clock offset: 0.029 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.720 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.720 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-19 07:03:52

End at: 2018-06-19 07:04:22

Local clock offset: 0.262 ms

Remote clock offset: 0.356 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.00%

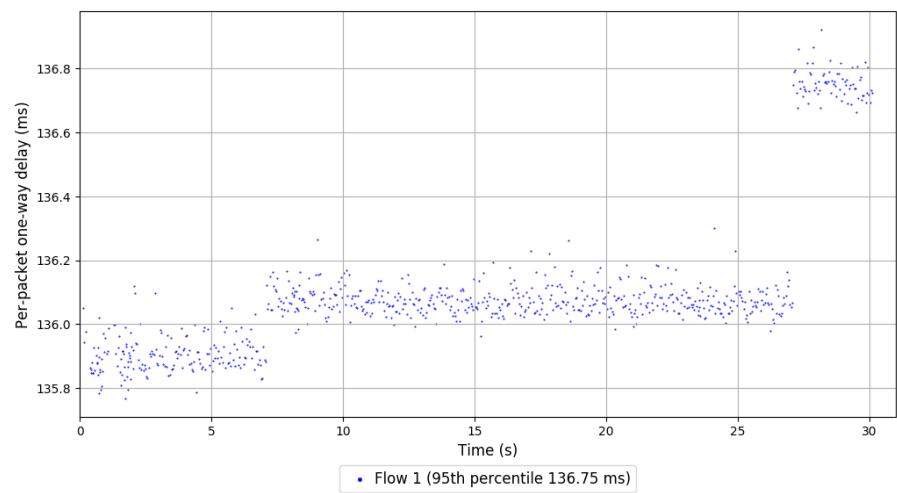
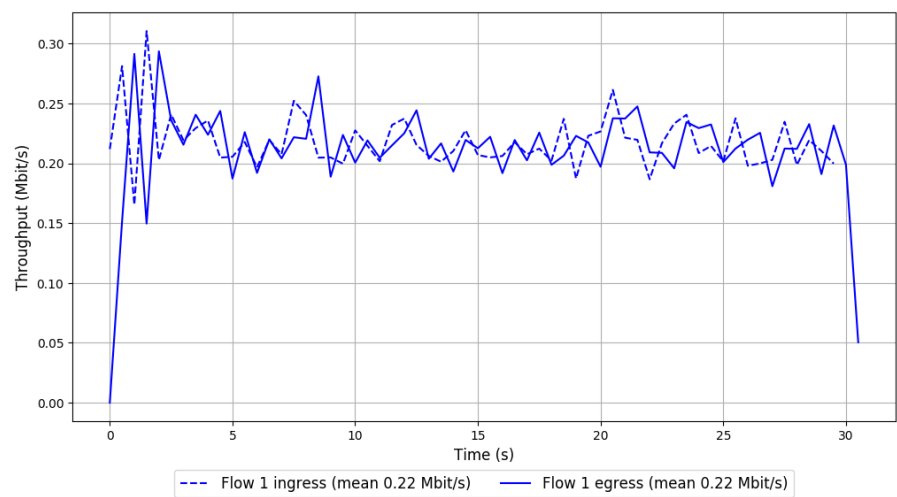
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.747 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-19 07:25:33

End at: 2018-06-19 07:26:03

Local clock offset: 0.071 ms

Remote clock offset: 0.334 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

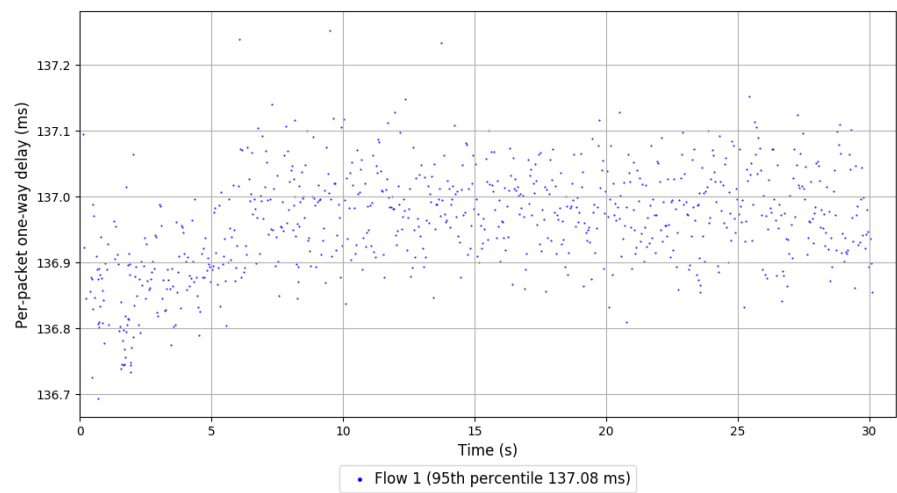
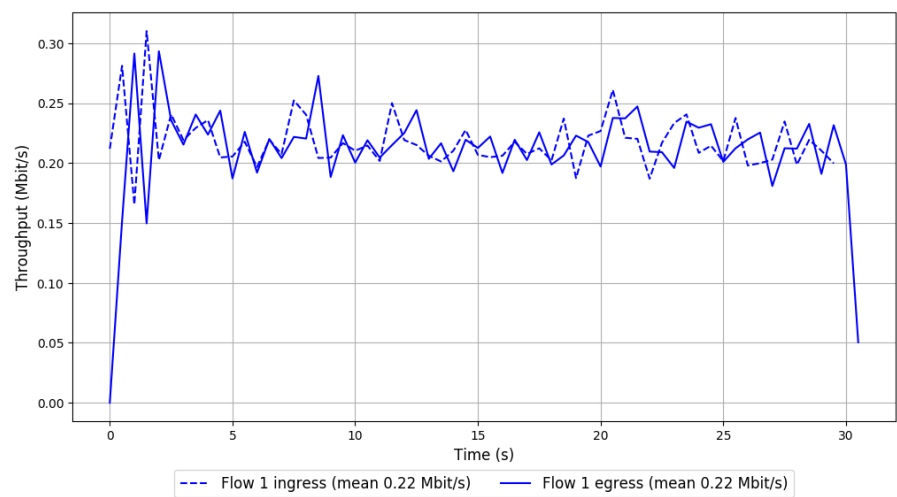
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-19 07:47:12

End at: 2018-06-19 07:47:42

Local clock offset: 0.14 ms

Remote clock offset: 0.022 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.124 ms

Loss rate: 0.00%

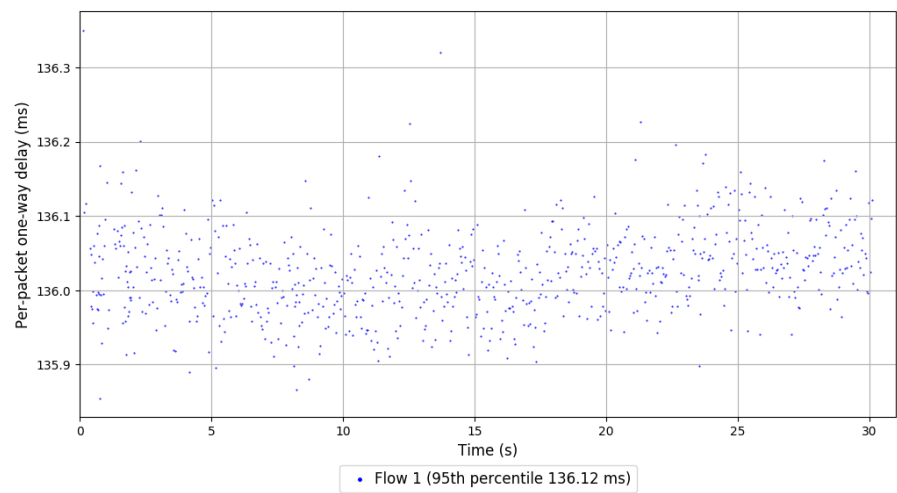
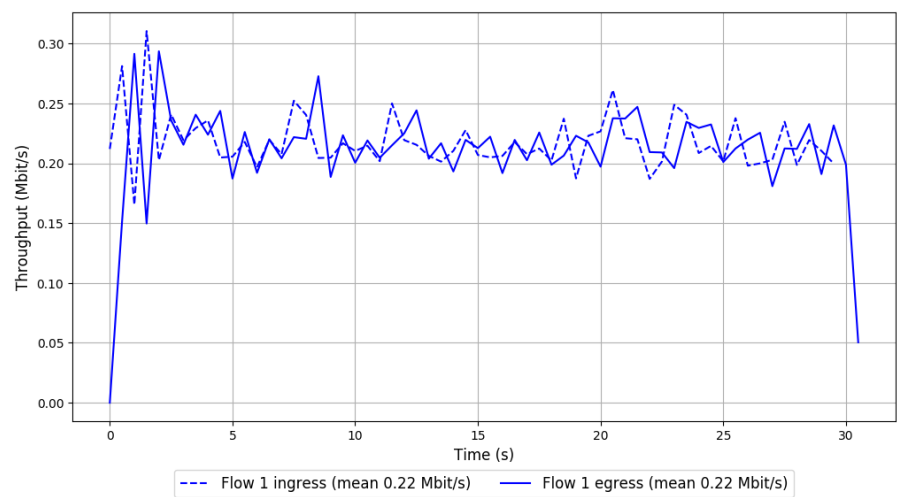
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.124 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

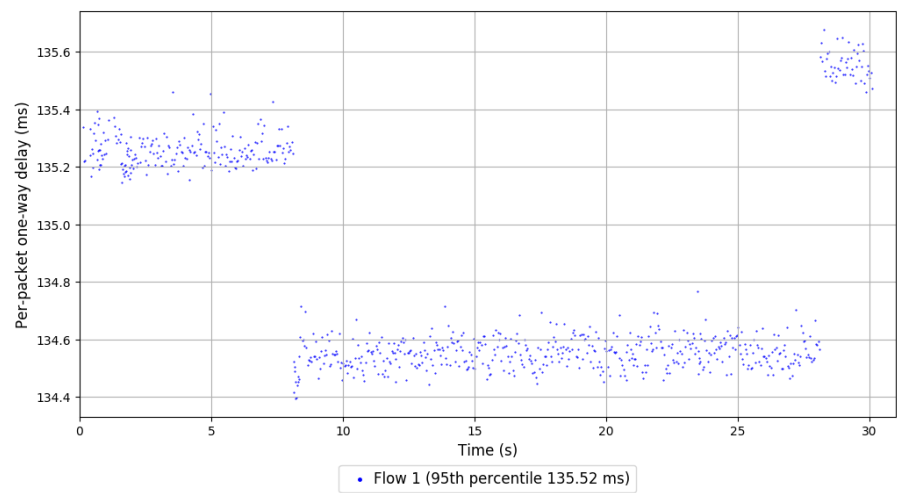
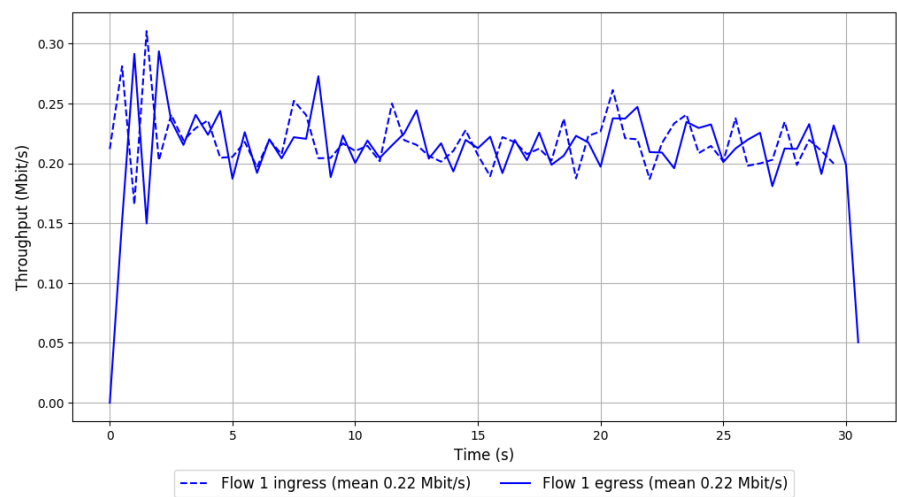


Run 7: Statistics of SCReAM

Start at: 2018-06-19 08:08:31
End at: 2018-06-19 08:09:01
Local clock offset: 0.179 ms
Remote clock offset: -0.365 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.516 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.516 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-06-19 08:29:47

End at: 2018-06-19 08:30:17

Local clock offset: 0.051 ms

Remote clock offset: 0.003 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

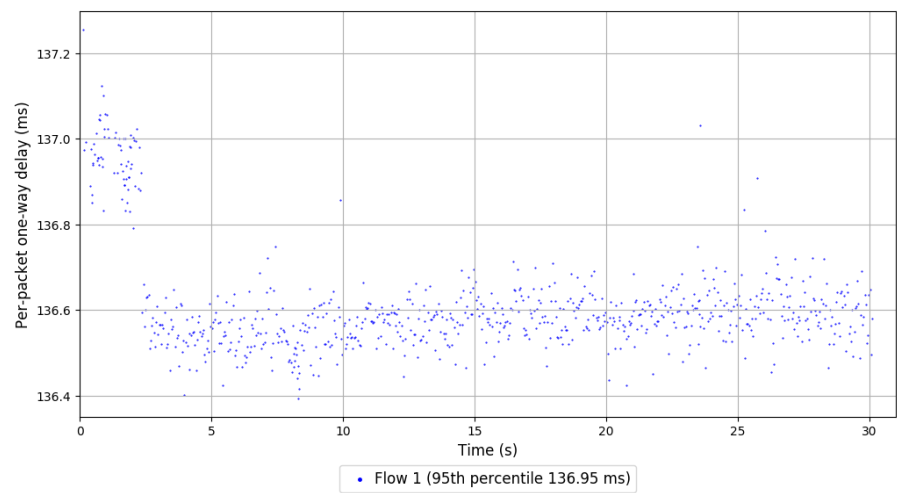
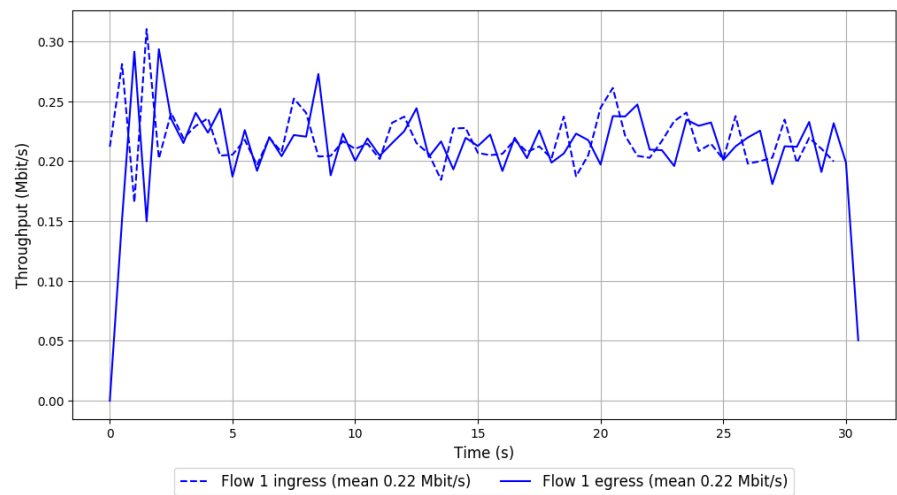
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

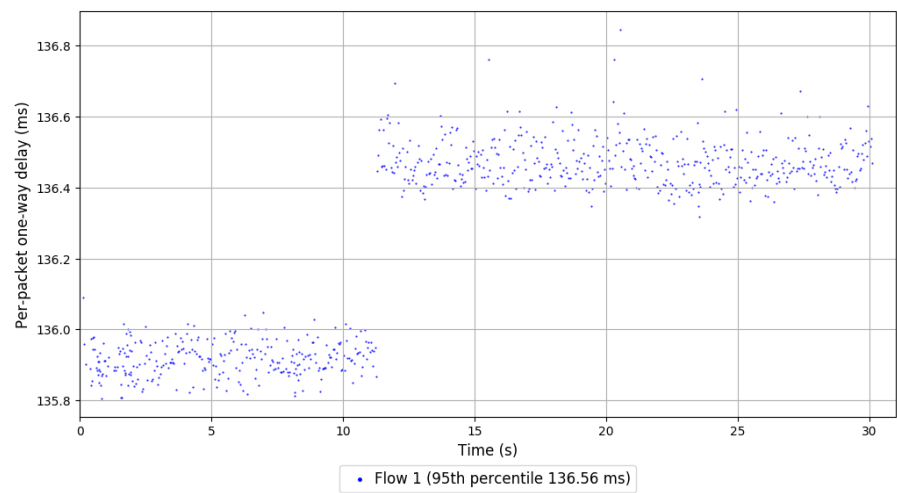
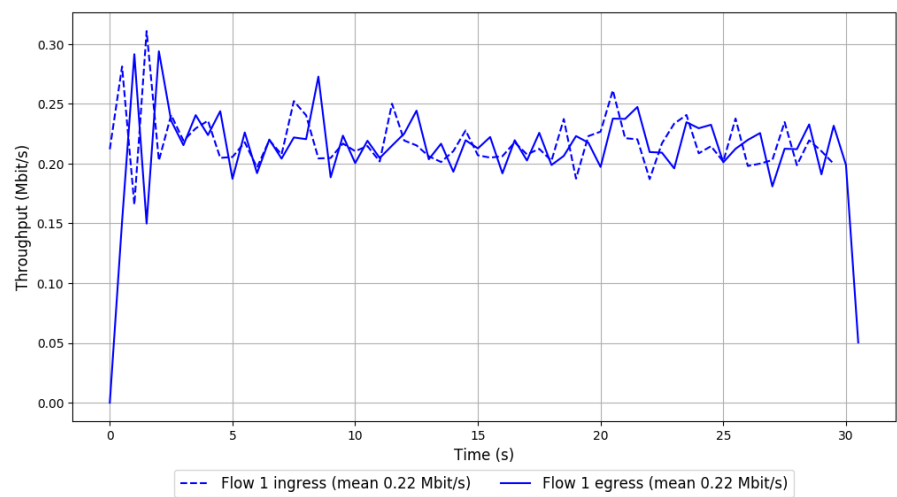


Run 9: Statistics of SCReAM

Start at: 2018-06-19 08:51:07
End at: 2018-06-19 08:51:37
Local clock offset: 0.104 ms
Remote clock offset: -0.088 ms

Below is generated by plot.py at 2018-06-19 10:26:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.563 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.563 ms
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-06-19 09:12:33

End at: 2018-06-19 09:13:03

Local clock offset: 0.182 ms

Remote clock offset: -0.501 ms

Below is generated by plot.py at 2018-06-19 10:26:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.00%

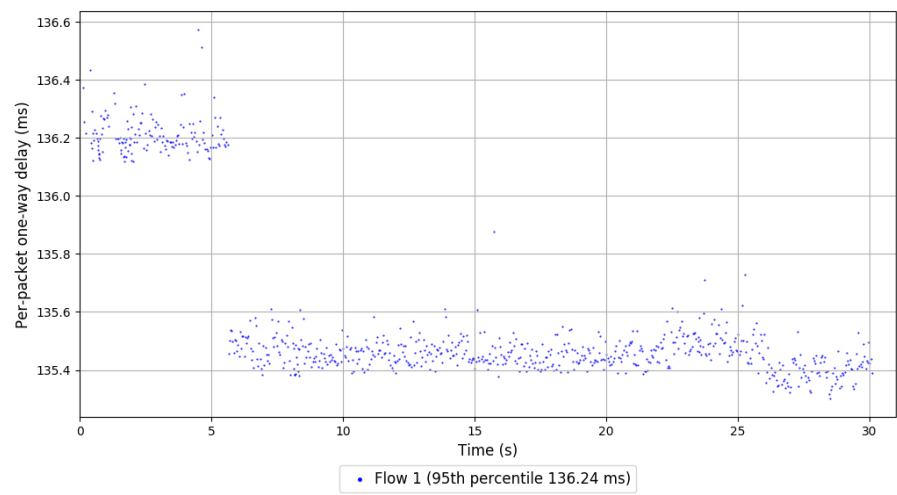
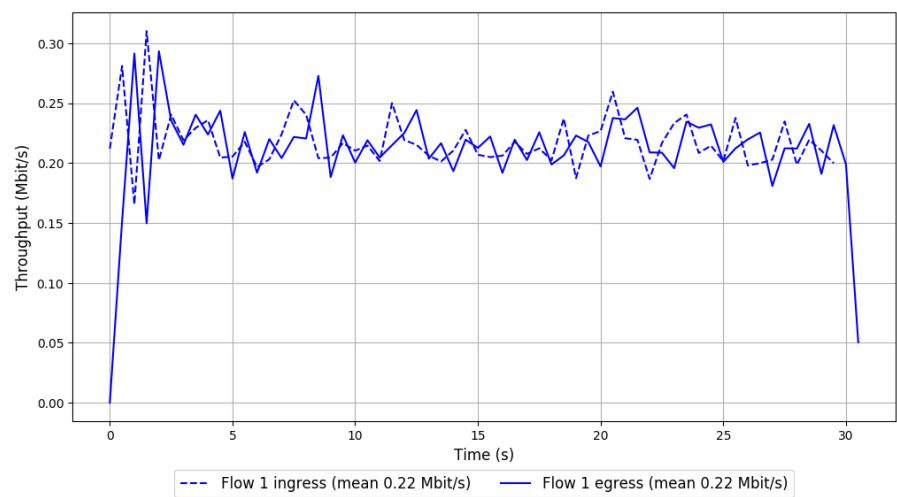
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 136.235 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-06-19 05:58:28

End at: 2018-06-19 05:58:58

Local clock offset: 0.235 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 135.949 ms

Loss rate: 0.00%

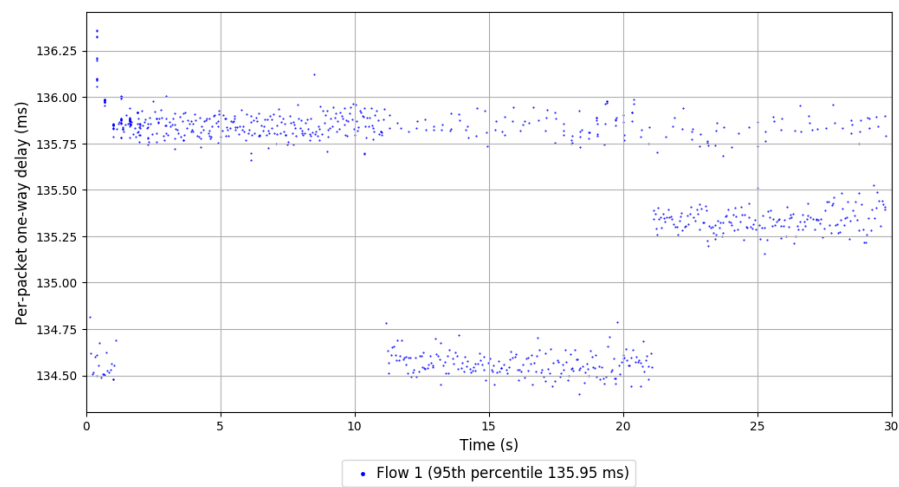
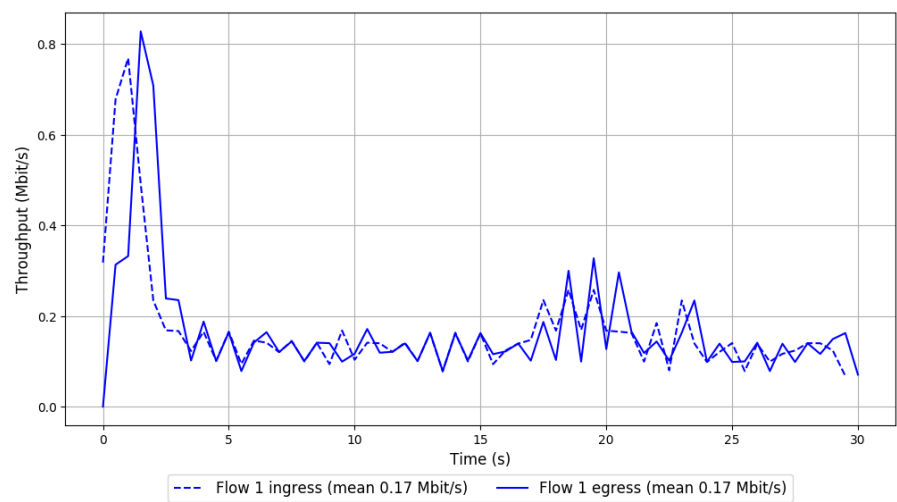
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 135.949 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

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

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

Local clock offset: 0.109 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

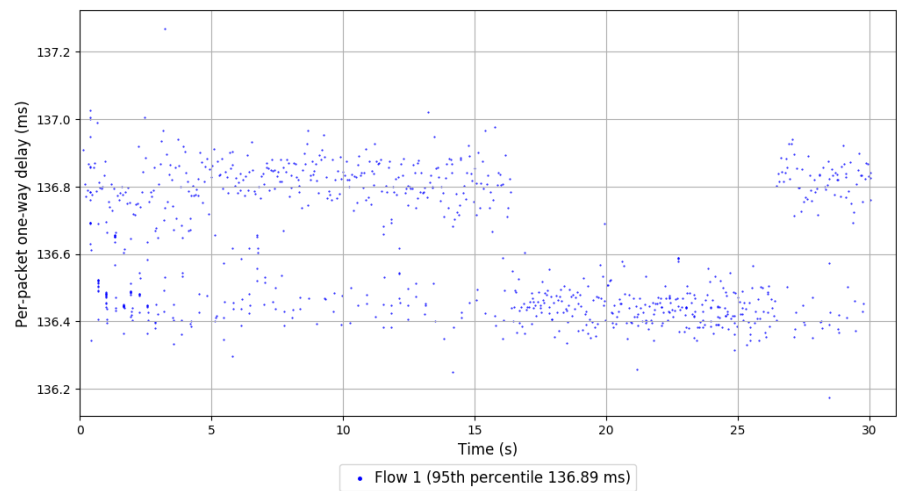
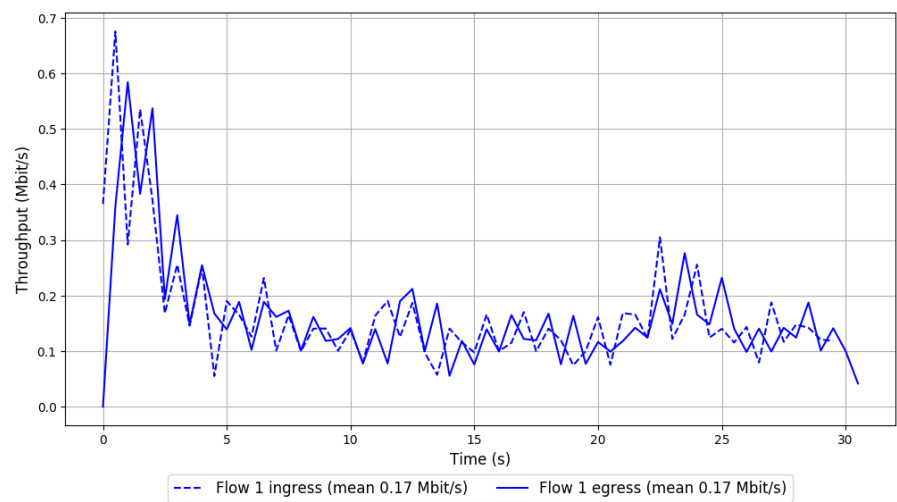
-- Flow 1:

Average throughput: 0.17 Mbit/s

95th percentile per-packet one-way delay: 136.889 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

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

End at: 2018-06-19 06:41:49

Local clock offset: 0.049 ms

Remote clock offset: 0.006 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.699 ms

Loss rate: 0.00%

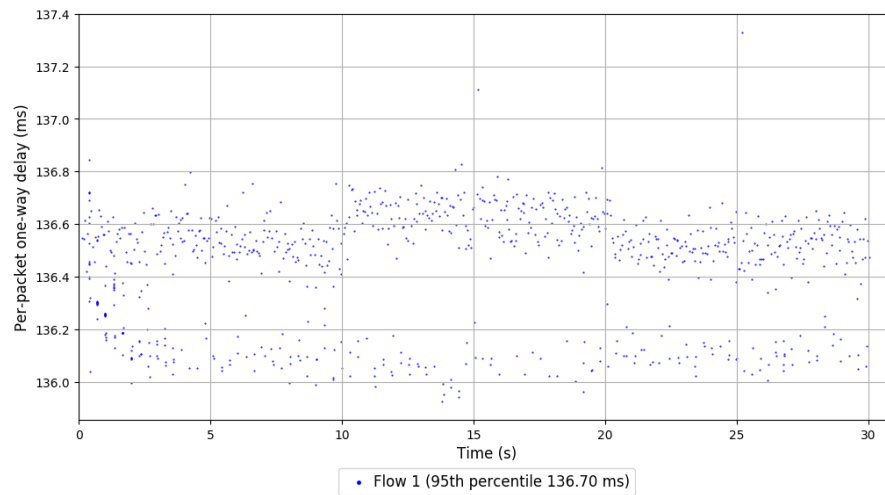
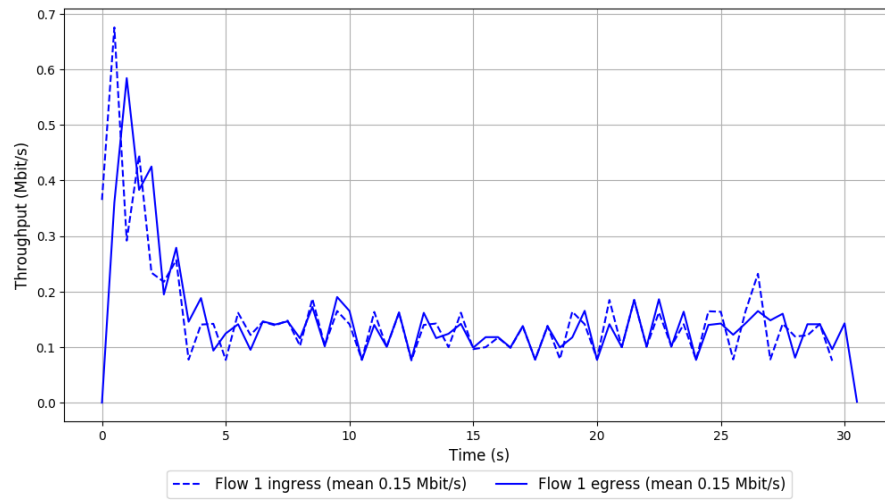
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 136.699 ms

Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-06-19 07:02:44

End at: 2018-06-19 07:03:14

Local clock offset: 0.233 ms

Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 135.694 ms

Loss rate: 0.00%

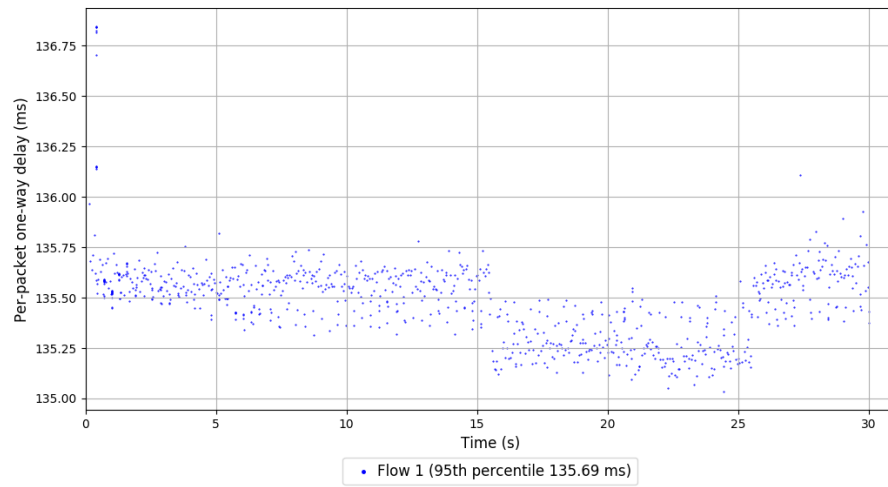
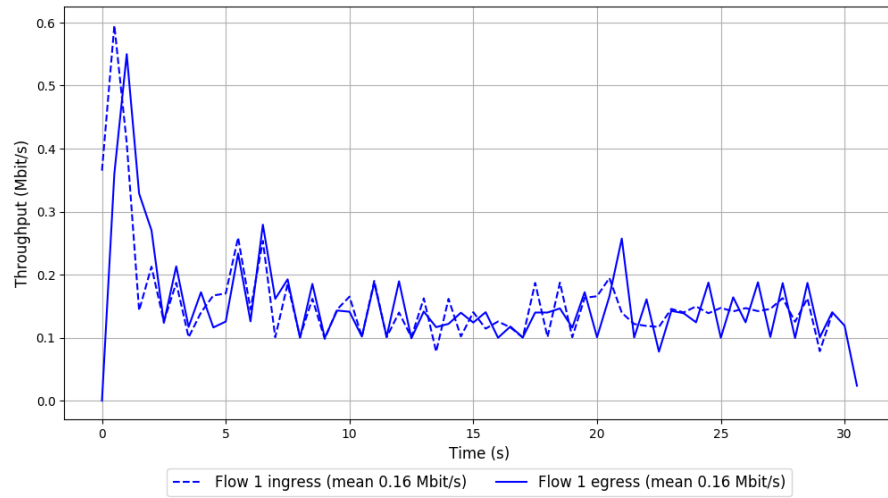
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 135.694 ms

Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-19 07:24:25

End at: 2018-06-19 07:24:55

Local clock offset: 0.05 ms

Remote clock offset: 0.02 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 136.764 ms

Loss rate: 0.00%

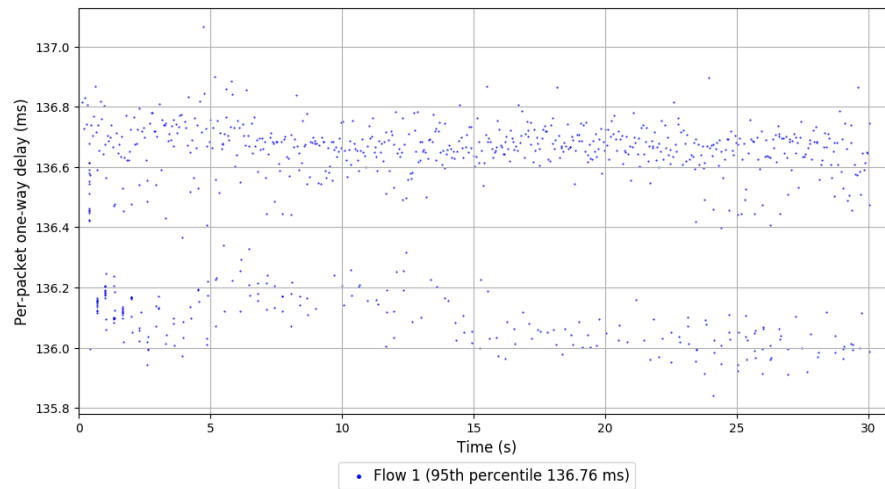
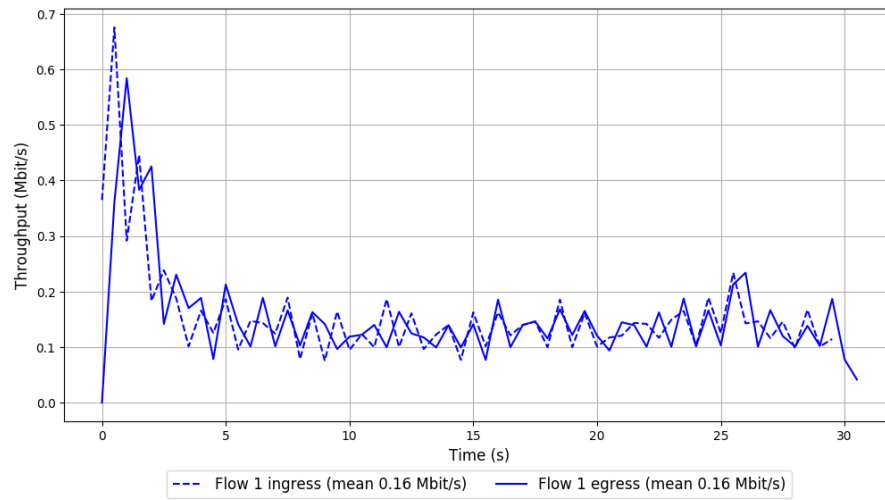
-- Flow 1:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 136.764 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

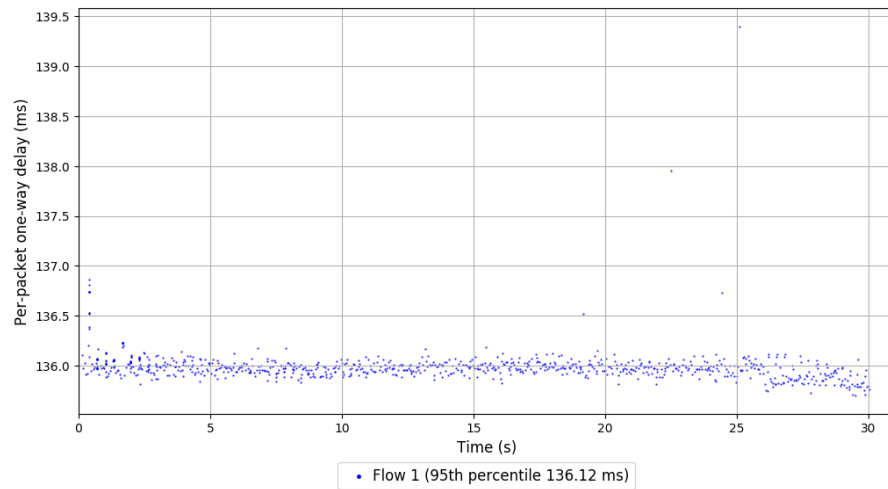
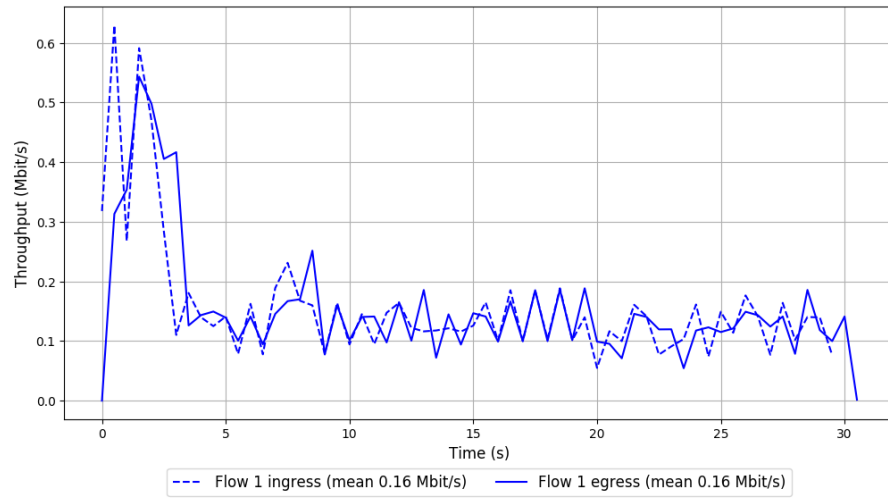


Run 6: Statistics of Sprout

Start at: 2018-06-19 07:46:03
End at: 2018-06-19 07:46:33
Local clock offset: 0.125 ms
Remote clock offset: -0.005 ms

Below is generated by plot.py at 2018-06-19 10:26:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.116 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 136.116 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-06-19 08:07:23

End at: 2018-06-19 08:07:53

Local clock offset: 1.838 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 134.952 ms

Loss rate: 0.00%

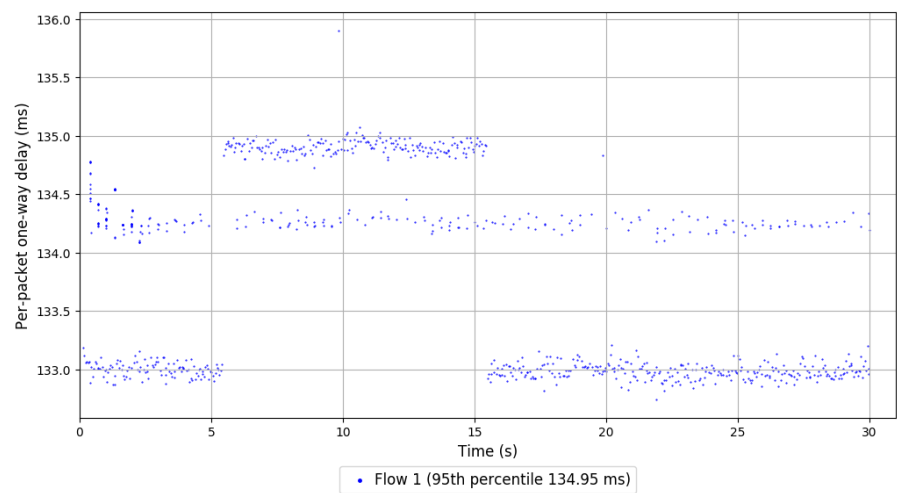
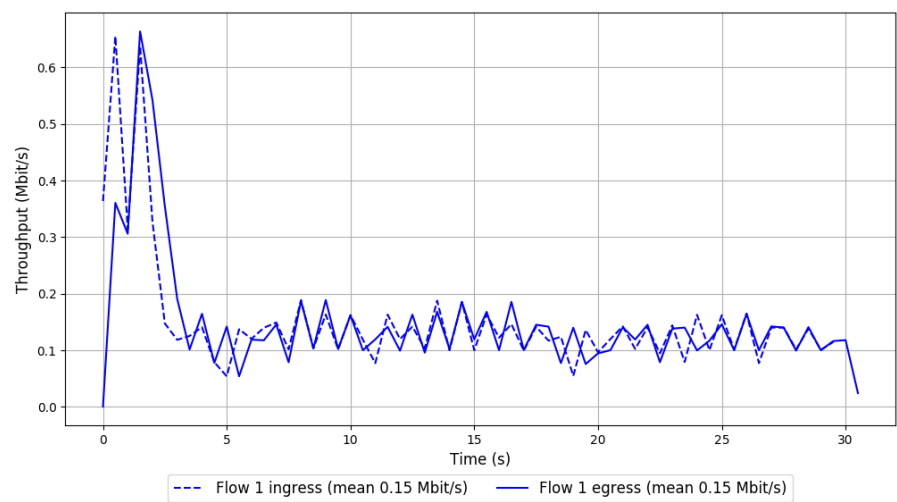
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 134.952 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

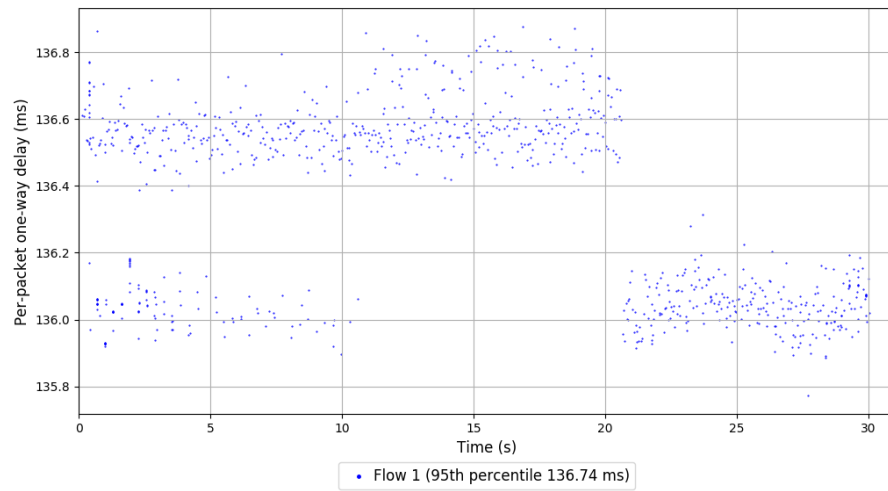
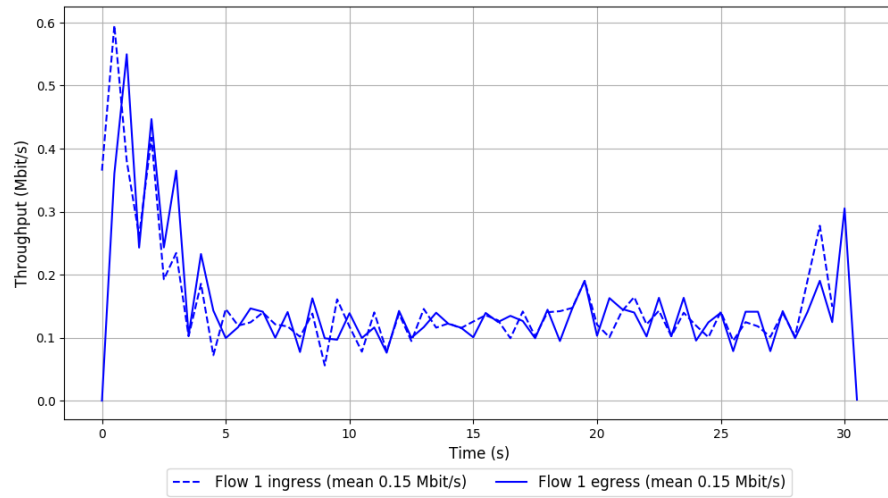


Run 8: Statistics of Sprout

Start at: 2018-06-19 08:28:39
End at: 2018-06-19 08:29:09
Local clock offset: 0.13 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-06-19 10:26:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.739 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 136.739 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

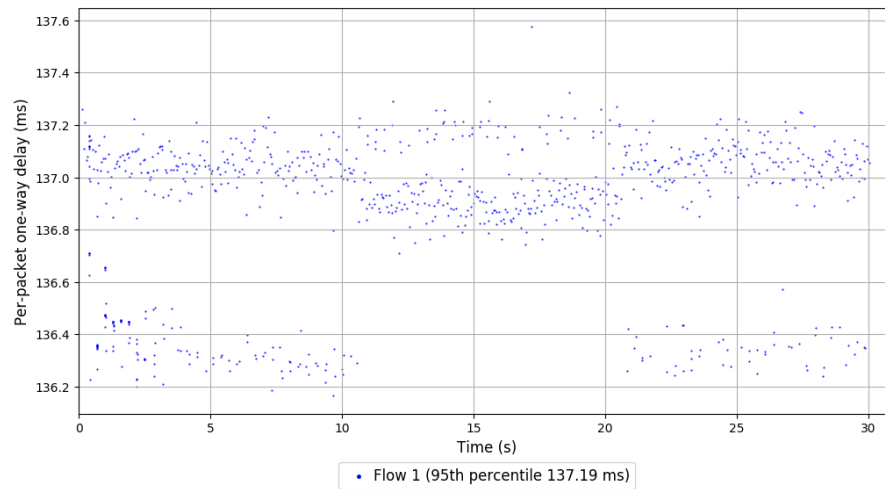
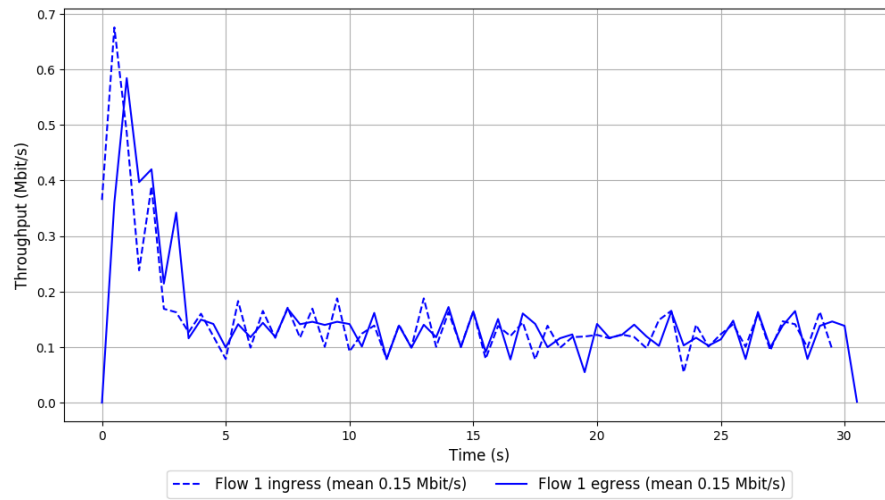


Run 9: Statistics of Sprout

Start at: 2018-06-19 08:49:59
End at: 2018-06-19 08:50:29
Local clock offset: -0.272 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-06-19 10:26:41
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 137.190 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 137.190 ms
Loss rate: 0.00%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-19 09:11:25

End at: 2018-06-19 09:11:55

Local clock offset: 0.195 ms

Remote clock offset: 0.271 ms

Below is generated by plot.py at 2018-06-19 10:26:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.306 ms

Loss rate: 0.00%

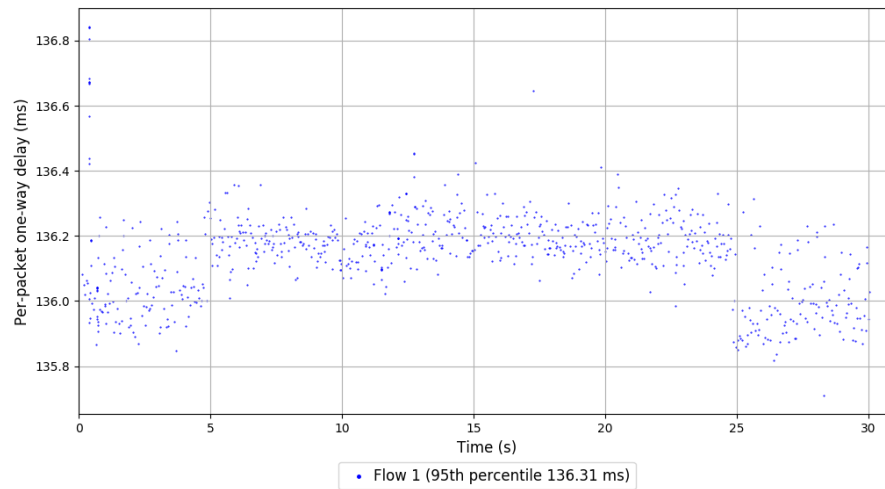
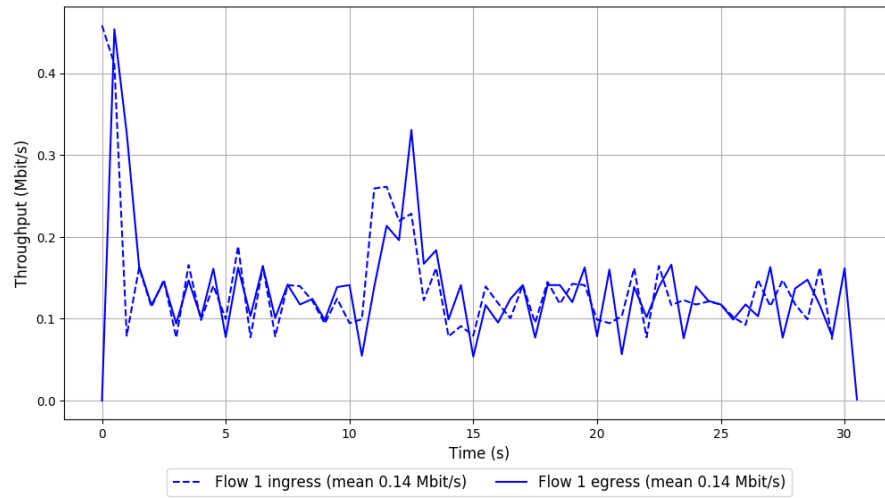
-- Flow 1:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 136.306 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

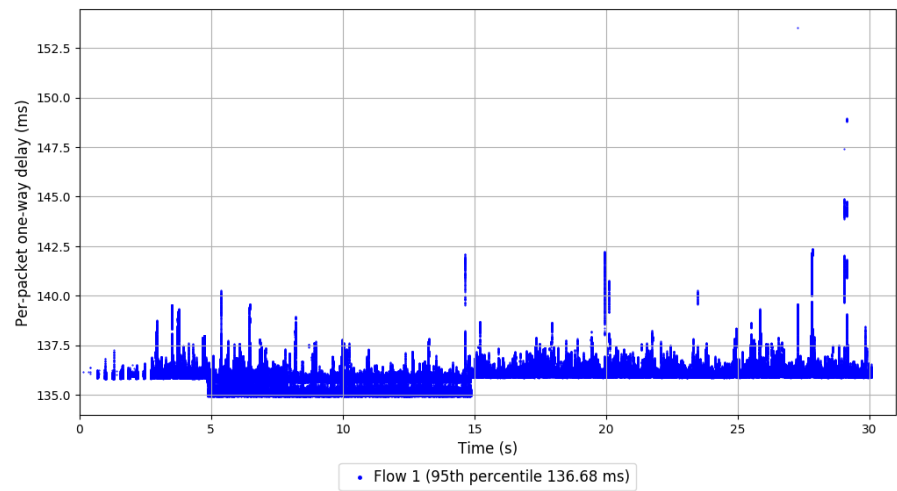
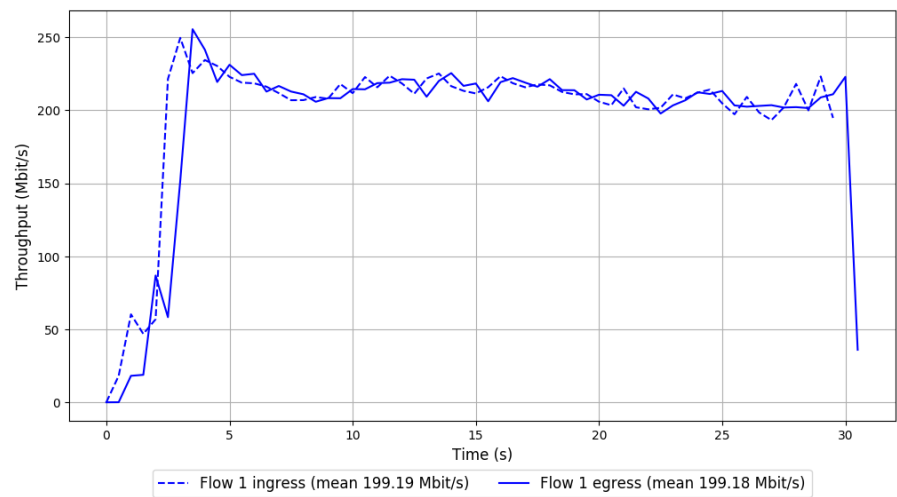


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-19 06:00:45
End at: 2018-06-19 06:01:15
Local clock offset: -0.03 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-06-19 10:27:30
# Datalink statistics
-- Total of 1 flow:
Average throughput: 199.18 Mbit/s
95th percentile per-packet one-way delay: 136.680 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 199.18 Mbit/s
95th percentile per-packet one-way delay: 136.680 ms
Loss rate: 0.00%
```

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



Run 2: Statistics of TaoVA-100x

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

End at: 2018-06-19 06:22:40

Local clock offset: -0.086 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-06-19 10:27:30

Datalink statistics

-- Total of 1 flow:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.00%

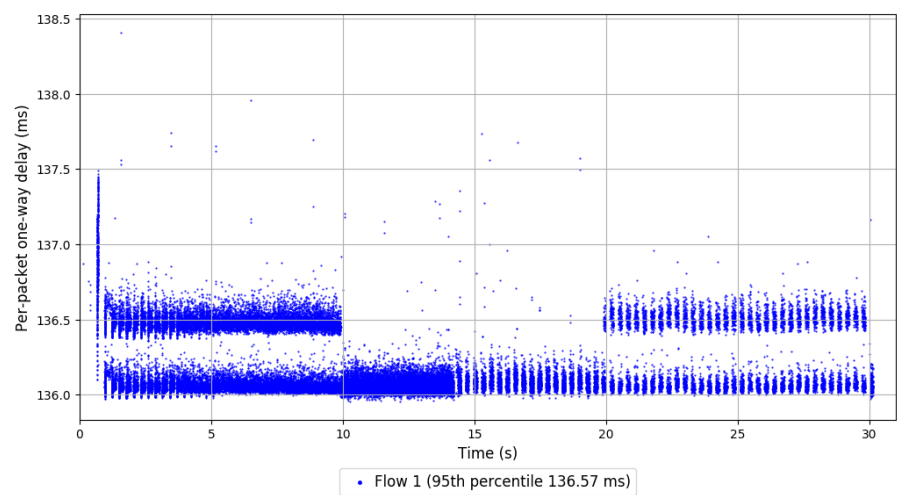
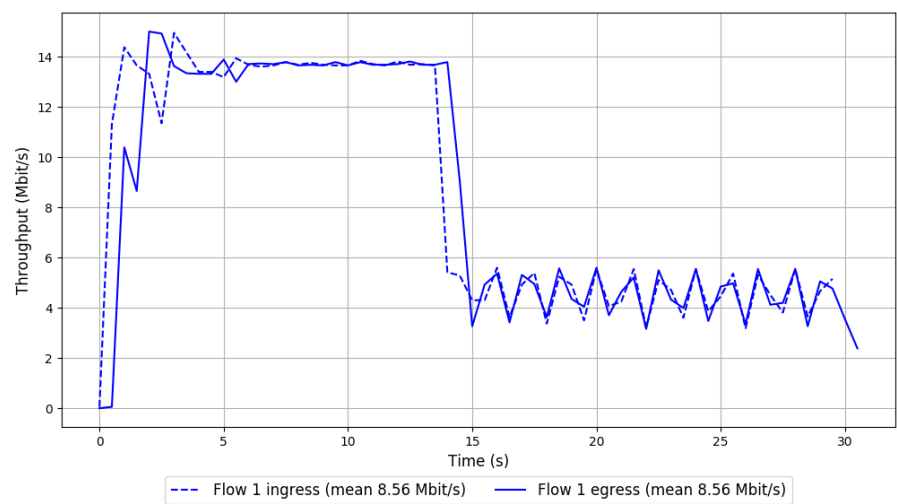
-- Flow 1:

Average throughput: 8.56 Mbit/s

95th percentile per-packet one-way delay: 136.566 ms

Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-06-19 06:43:36

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

Local clock offset: 0.159 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-06-19 10:27:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 199.39 Mbit/s

95th percentile per-packet one-way delay: 136.720 ms

Loss rate: 0.00%

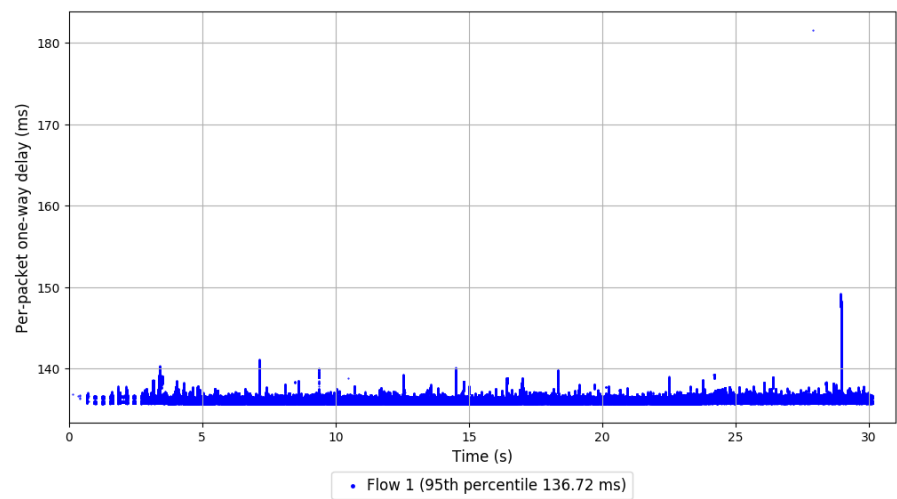
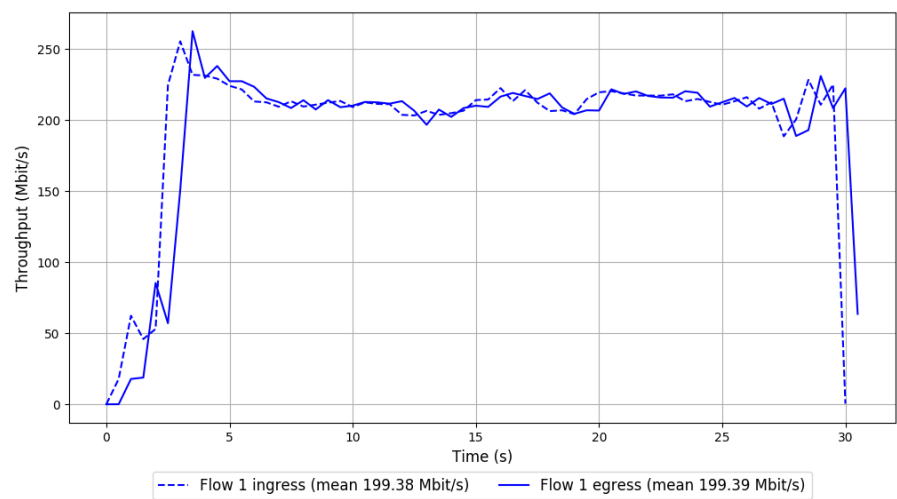
-- Flow 1:

Average throughput: 199.39 Mbit/s

95th percentile per-packet one-way delay: 136.720 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-19 07:05:01

End at: 2018-06-19 07:05:31

Local clock offset: 0.23 ms

Remote clock offset: 0.361 ms

Below is generated by plot.py at 2018-06-19 10:27:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 198.94 Mbit/s

95th percentile per-packet one-way delay: 136.881 ms

Loss rate: 0.00%

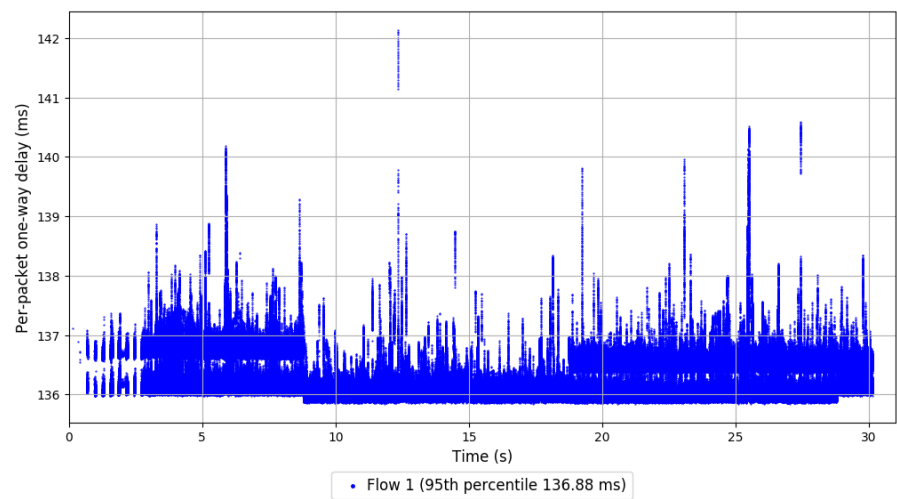
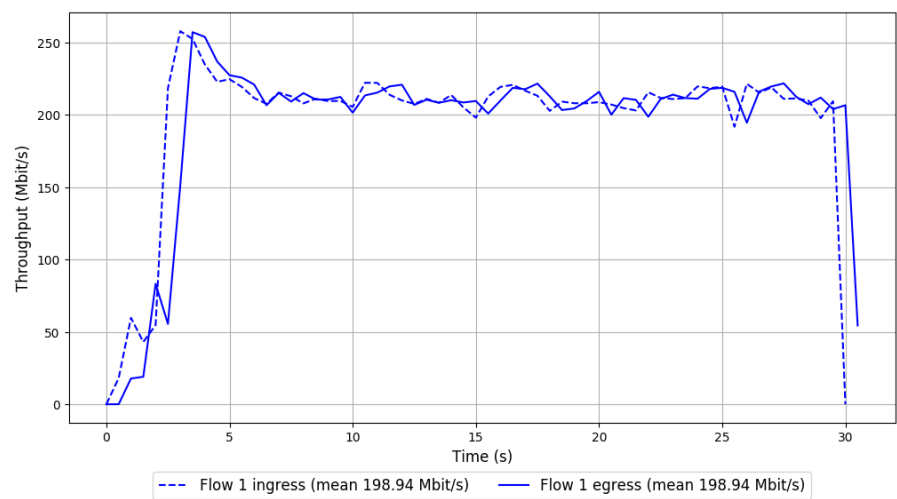
-- Flow 1:

Average throughput: 198.94 Mbit/s

95th percentile per-packet one-way delay: 136.881 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-19 07:26:42

End at: 2018-06-19 07:27:12

Local clock offset: 0.171 ms

Remote clock offset: 0.023 ms

Below is generated by plot.py at 2018-06-19 10:30:46

Datalink statistics

-- Total of 1 flow:

Average throughput: 202.29 Mbit/s

95th percentile per-packet one-way delay: 136.790 ms

Loss rate: 0.00%

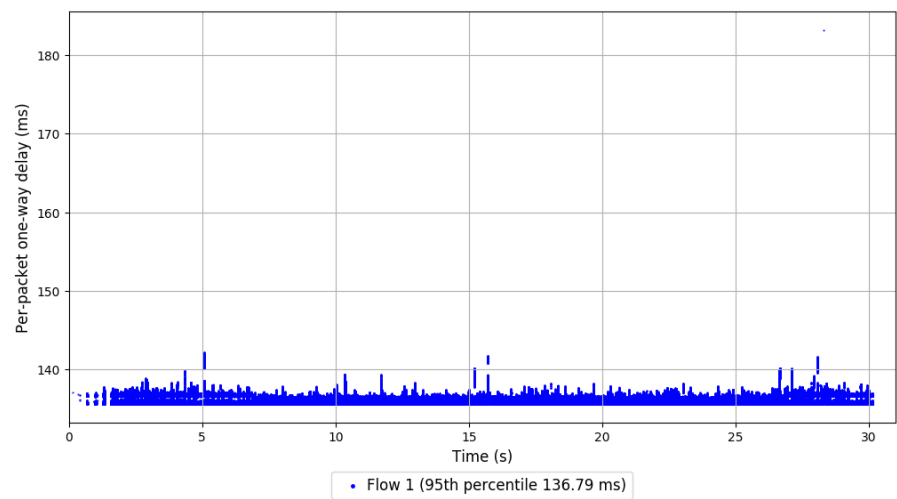
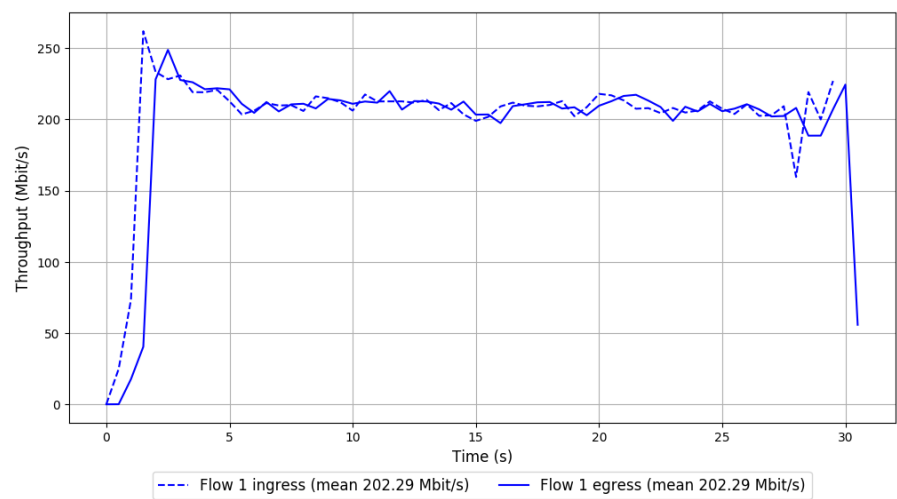
-- Flow 1:

Average throughput: 202.29 Mbit/s

95th percentile per-packet one-way delay: 136.790 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-19 07:48:20

End at: 2018-06-19 07:48:50

Local clock offset: -0.035 ms

Remote clock offset: 0.002 ms

Below is generated by plot.py at 2018-06-19 10:30:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 136.887 ms

Loss rate: 0.00%

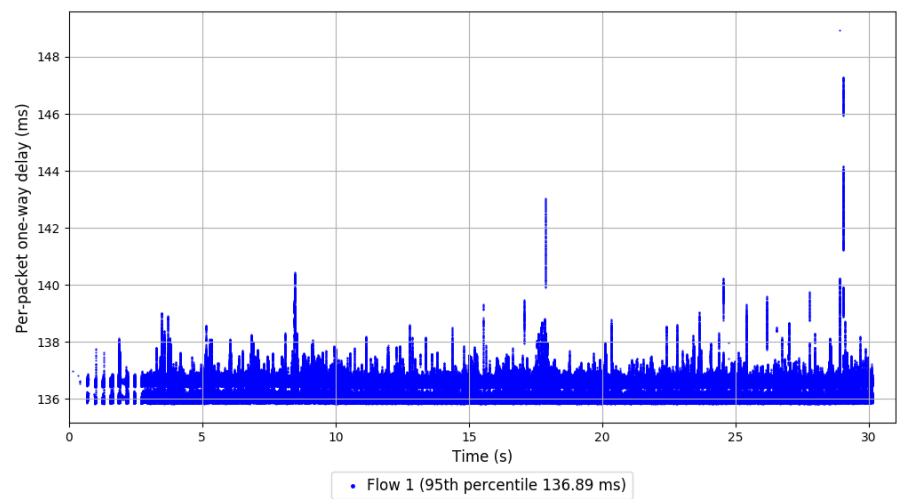
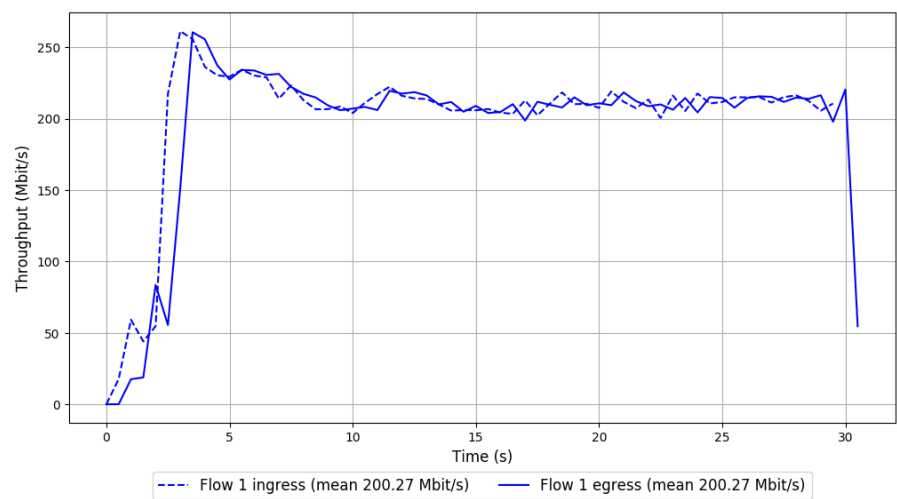
-- Flow 1:

Average throughput: 200.27 Mbit/s

95th percentile per-packet one-way delay: 136.887 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-06-19 08:09:40

End at: 2018-06-19 08:10:10

Local clock offset: -0.157 ms

Remote clock offset: 0.033 ms

Below is generated by plot.py at 2018-06-19 10:30:52

Datalink statistics

-- Total of 1 flow:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.00%

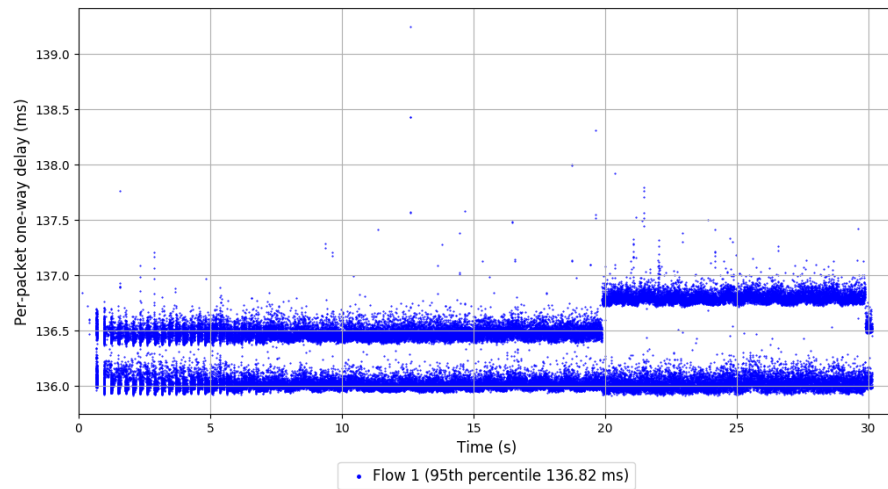
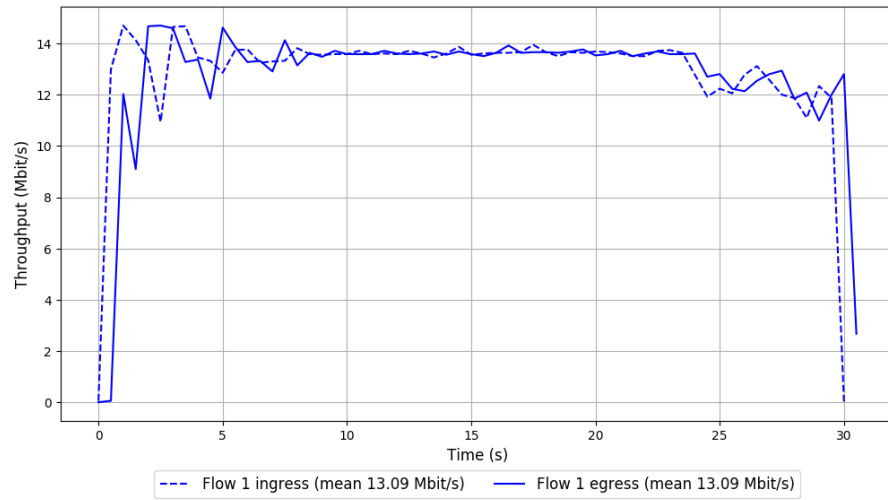
-- Flow 1:

Average throughput: 13.09 Mbit/s

95th percentile per-packet one-way delay: 136.821 ms

Loss rate: 0.00%

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

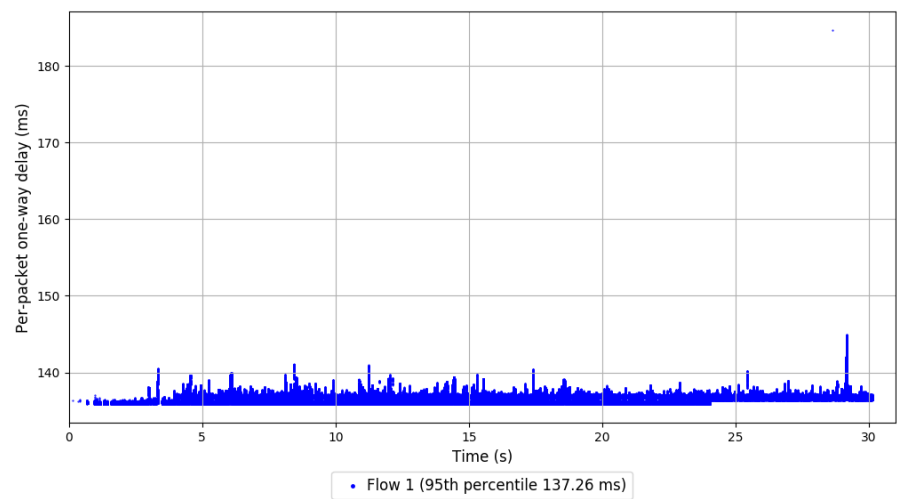
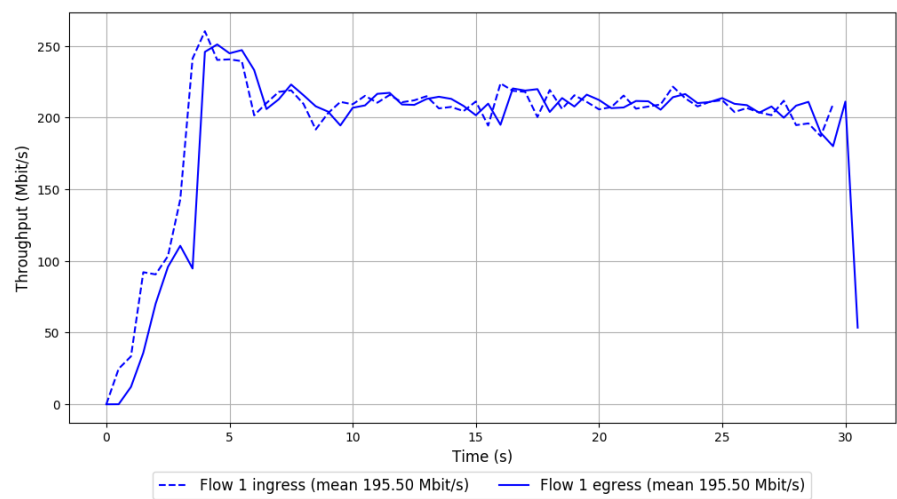


Run 8: Statistics of TaoVA-100x

Start at: 2018-06-19 08:30:56
End at: 2018-06-19 08:31:26
Local clock offset: -0.001 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-06-19 10:31:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 195.50 Mbit/s
95th percentile per-packet one-way delay: 137.261 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 195.50 Mbit/s
95th percentile per-packet one-way delay: 137.261 ms
Loss rate: 0.00%

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

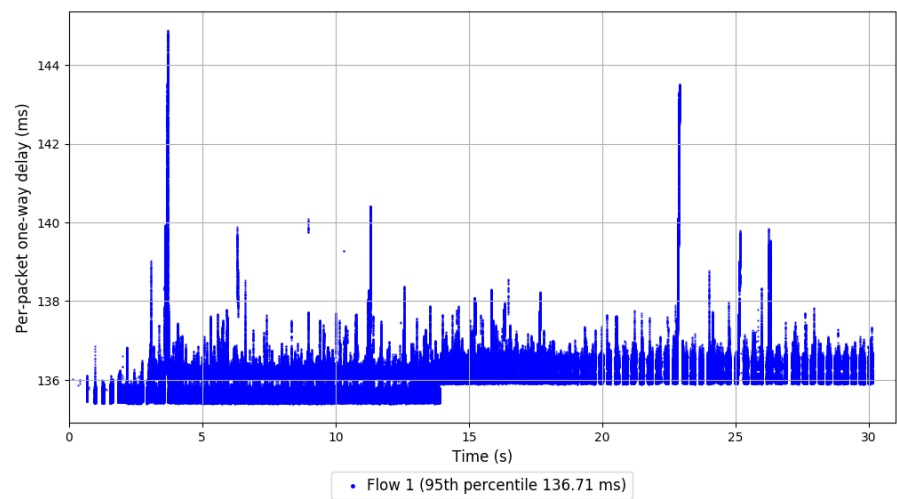
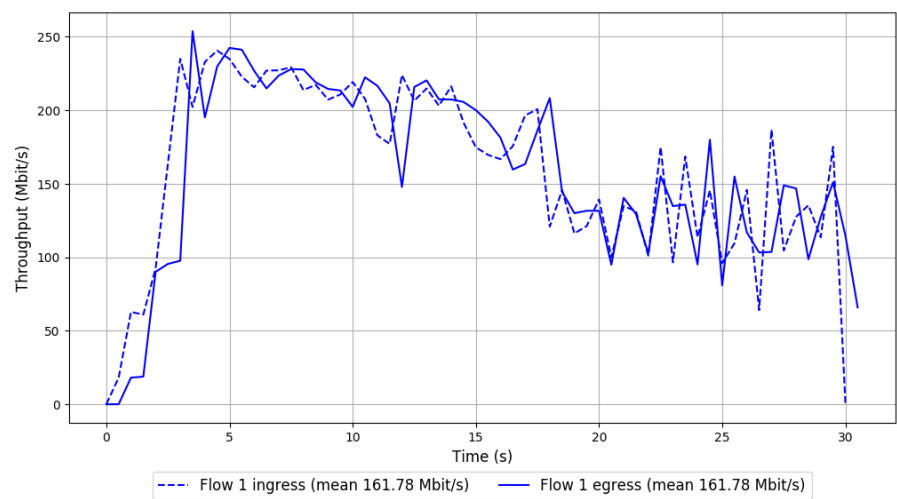


Run 9: Statistics of TaoVA-100x

Start at: 2018-06-19 08:52:16
End at: 2018-06-19 08:52:46
Local clock offset: -0.028 ms
Remote clock offset: -0.425 ms

Below is generated by plot.py at 2018-06-19 10:31:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 161.78 Mbit/s
95th percentile per-packet one-way delay: 136.706 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 161.78 Mbit/s
95th percentile per-packet one-way delay: 136.706 ms
Loss rate: 0.00%

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

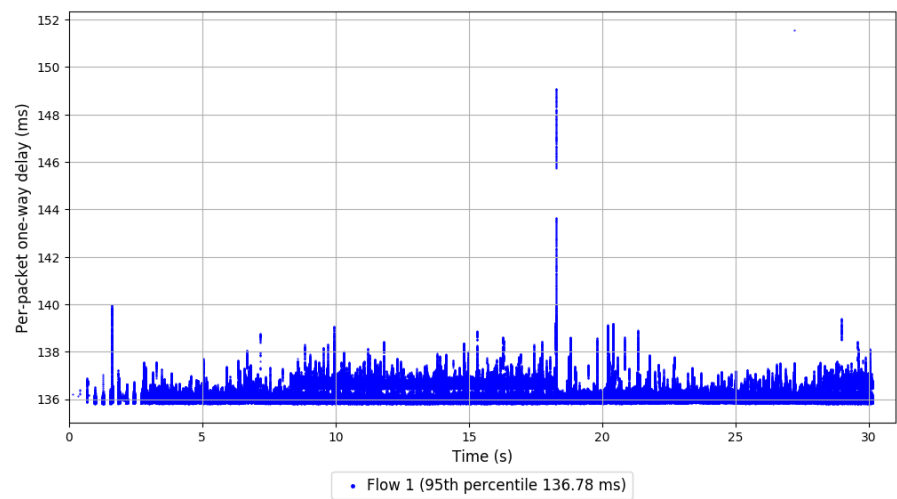
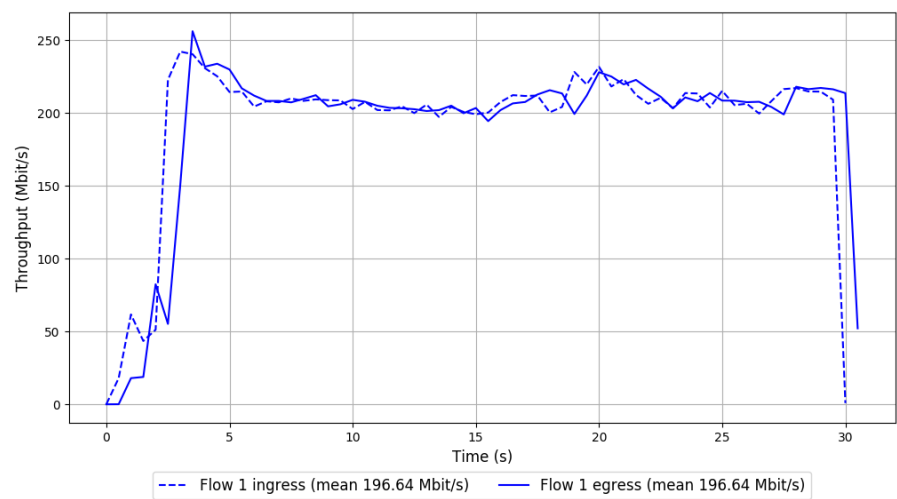


Run 10: Statistics of TaoVA-100x

Start at: 2018-06-19 09:13:41
End at: 2018-06-19 09:14:11
Local clock offset: -0.139 ms
Remote clock offset: -0.108 ms

Below is generated by plot.py at 2018-06-19 10:32:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.64 Mbit/s
95th percentile per-packet one-way delay: 136.779 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 196.64 Mbit/s
95th percentile per-packet one-way delay: 136.779 ms
Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-06-19 05:52:02

End at: 2018-06-19 05:52:32

Local clock offset: -0.048 ms

Remote clock offset: 0.161 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.94 Mbit/s

95th percentile per-packet one-way delay: 145.522 ms

Loss rate: 0.00%

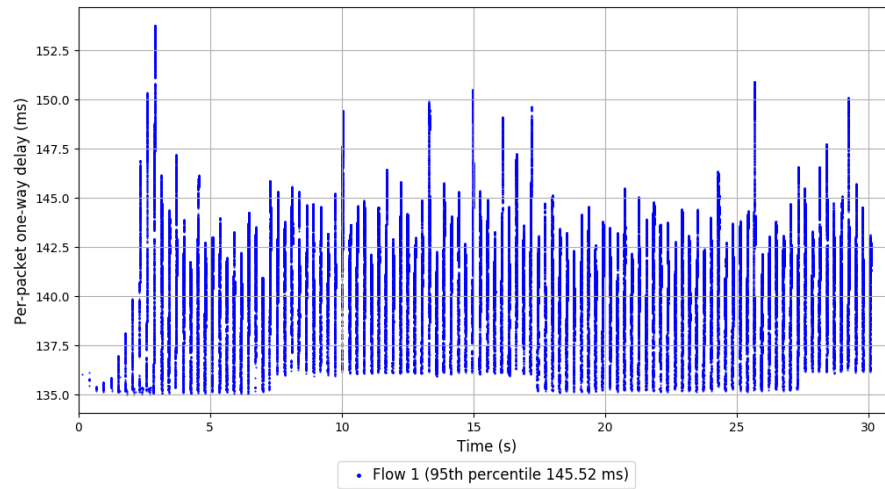
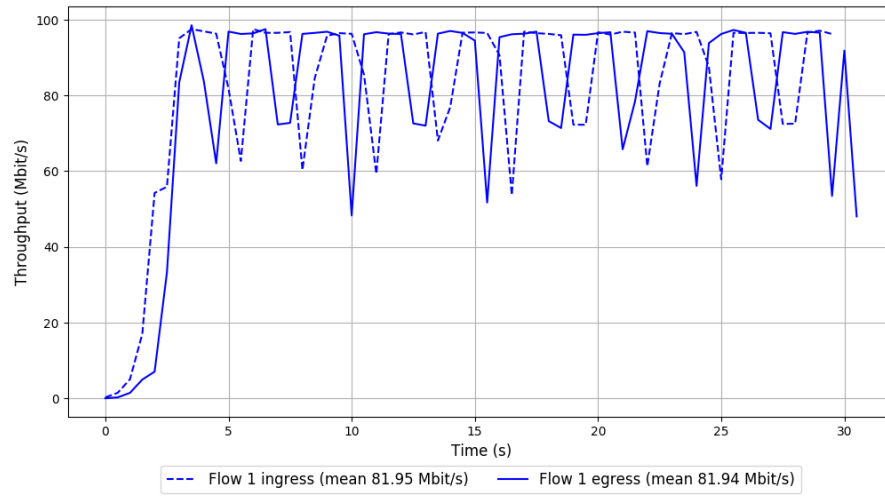
-- Flow 1:

Average throughput: 81.94 Mbit/s

95th percentile per-packet one-way delay: 145.522 ms

Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-06-19 06:13:20

End at: 2018-06-19 06:13:50

Local clock offset: 0.247 ms

Remote clock offset: 0.414 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 45.04 Mbit/s

95th percentile per-packet one-way delay: 139.773 ms

Loss rate: 0.00%

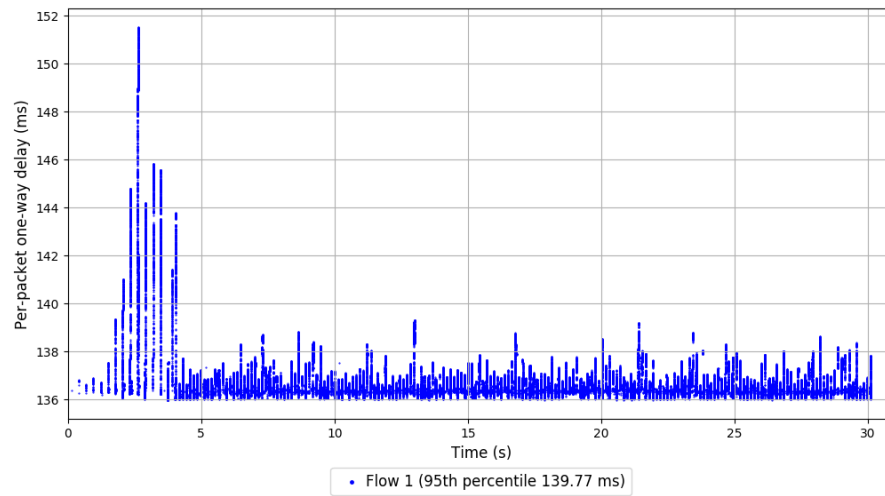
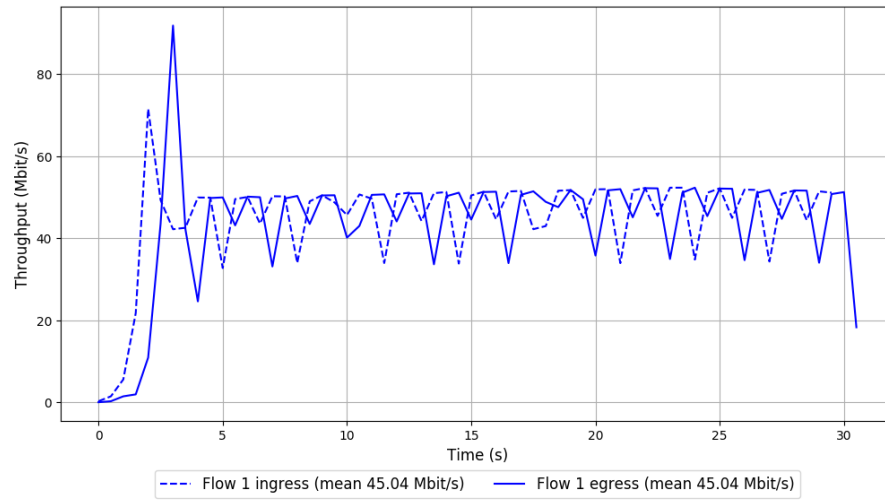
-- Flow 1:

Average throughput: 45.04 Mbit/s

95th percentile per-packet one-way delay: 139.773 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-06-19 06:34:49

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

Local clock offset: 0.005 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 149.132 ms

Loss rate: 0.00%

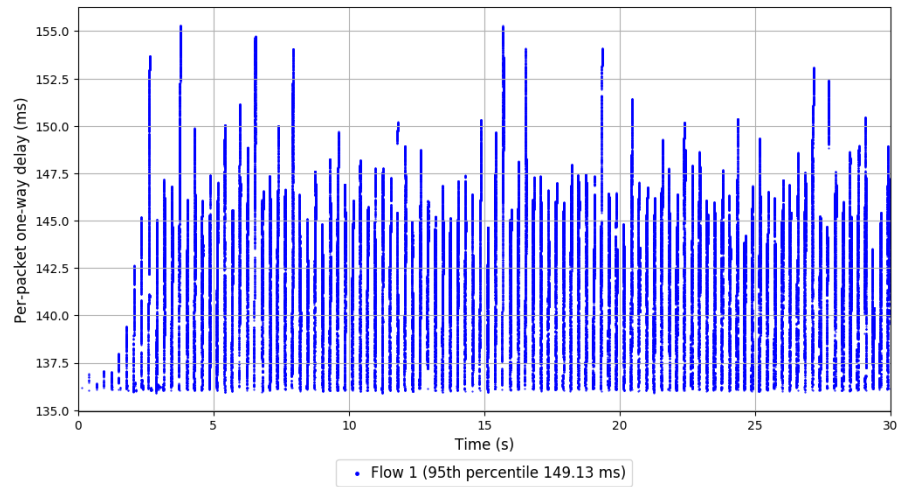
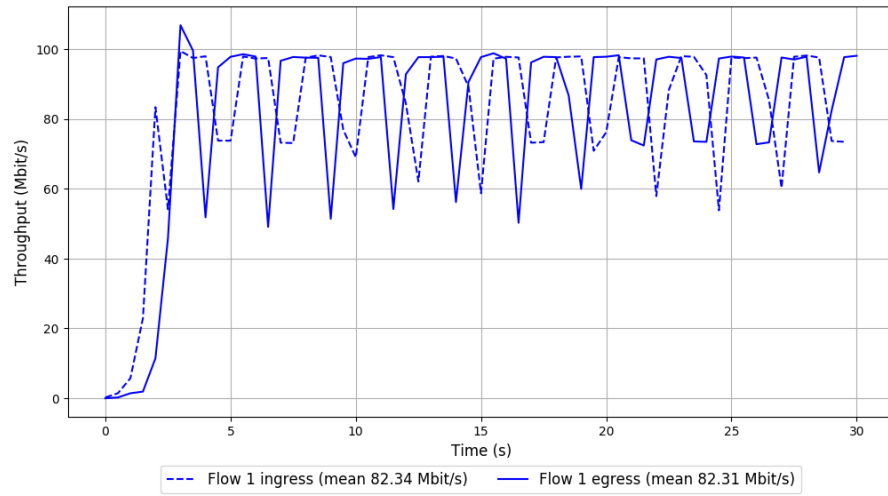
-- Flow 1:

Average throughput: 82.31 Mbit/s

95th percentile per-packet one-way delay: 149.132 ms

Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-06-19 06:56:20

End at: 2018-06-19 06:56:50

Local clock offset: -0.091 ms

Remote clock offset: 0.012 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 148.082 ms

Loss rate: 0.11%

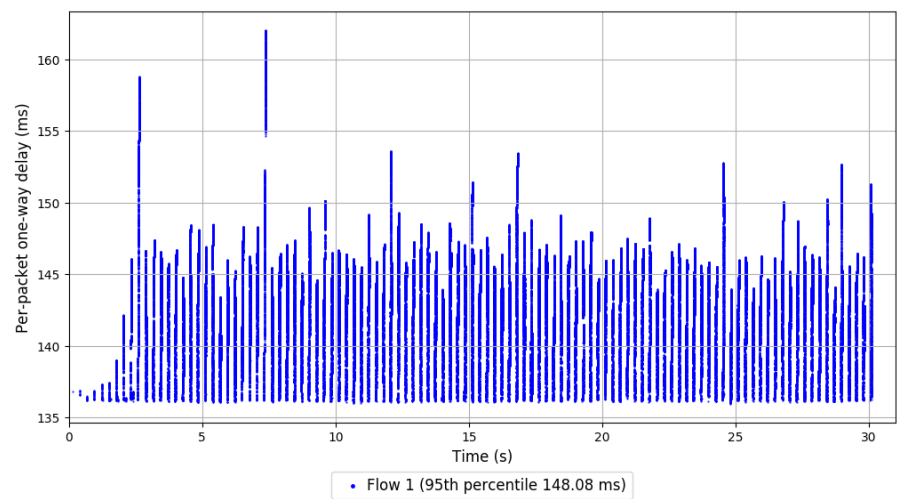
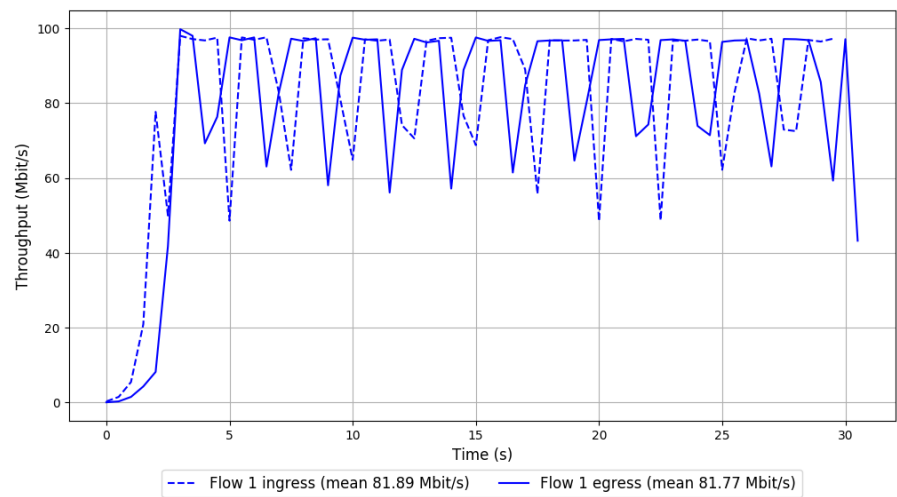
-- Flow 1:

Average throughput: 81.77 Mbit/s

95th percentile per-packet one-way delay: 148.082 ms

Loss rate: 0.11%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2018-06-19 07:17:49

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

Local clock offset: -0.15 ms

Remote clock offset: 0.024 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 146.175 ms

Loss rate: 0.00%

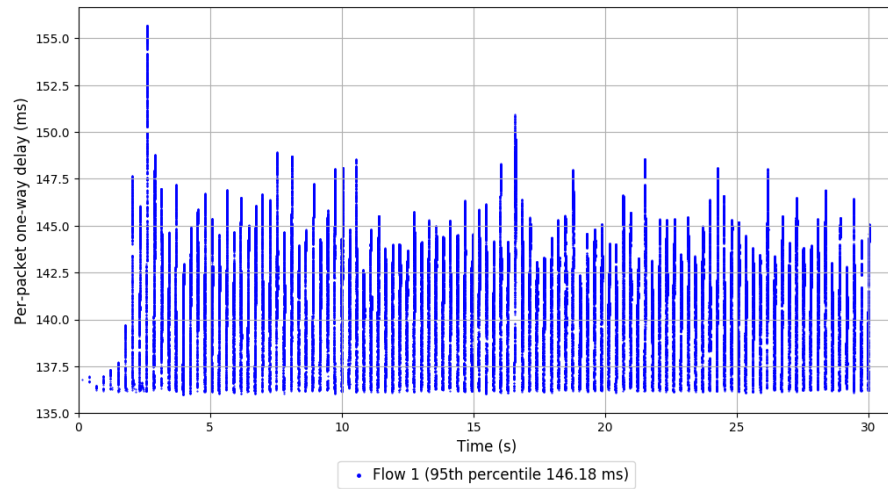
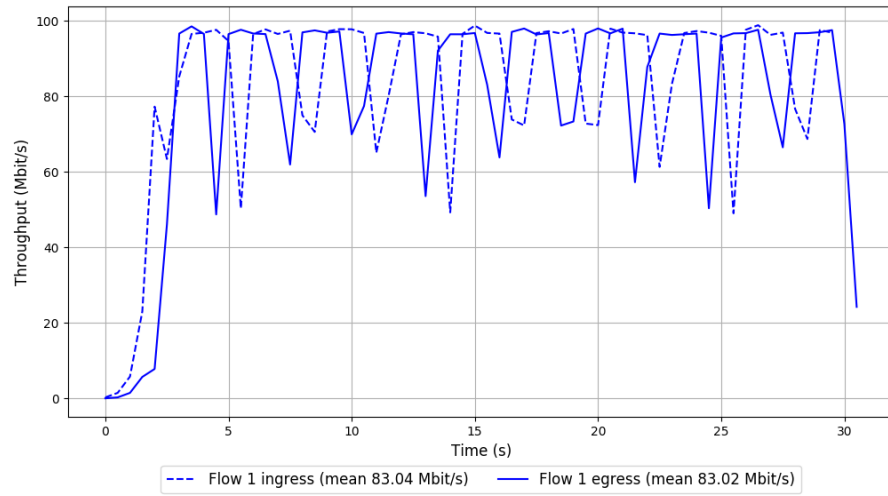
-- Flow 1:

Average throughput: 83.02 Mbit/s

95th percentile per-packet one-way delay: 146.175 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

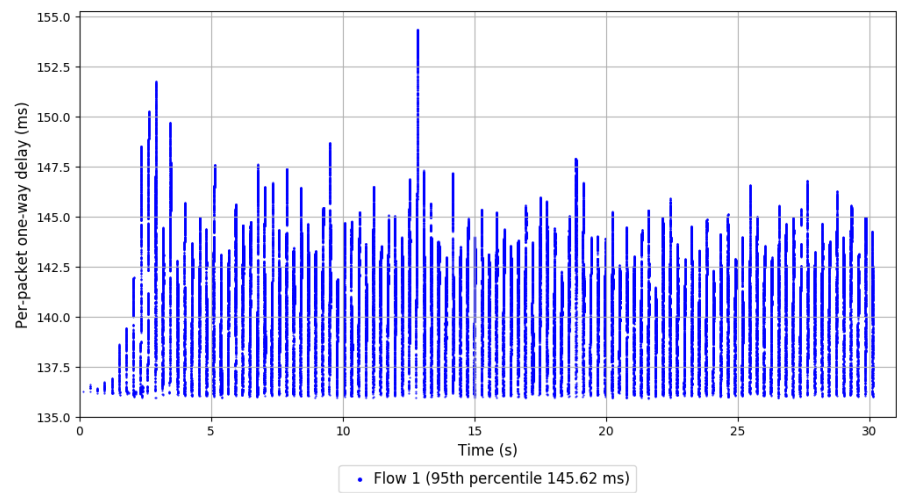
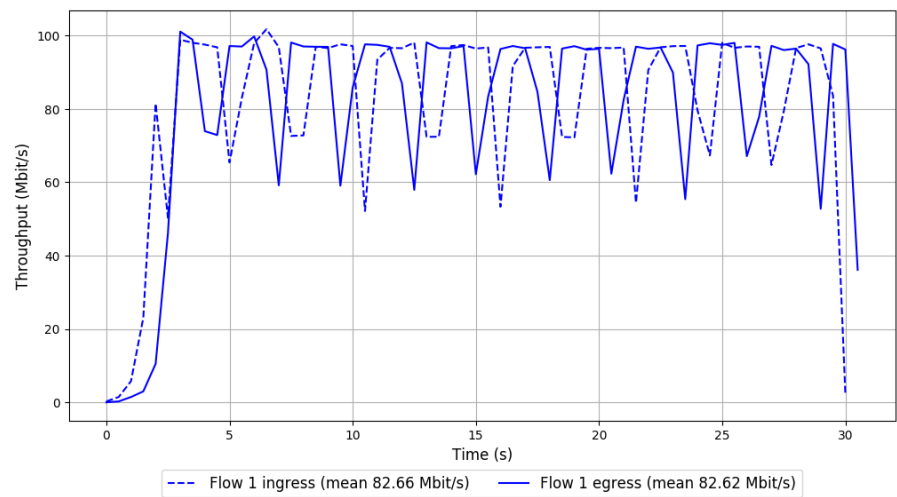


Run 6: Statistics of TCP Vegas

Start at: 2018-06-19 07:39:30
End at: 2018-06-19 07:40:00
Local clock offset: 0.006 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-06-19 10:32:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 82.62 Mbit/s
95th percentile per-packet one-way delay: 145.621 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 82.62 Mbit/s
95th percentile per-packet one-way delay: 145.621 ms
Loss rate: 0.03%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-06-19 08:00:57

End at: 2018-06-19 08:01:27

Local clock offset: 0.162 ms

Remote clock offset: -0.37 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 143.408 ms

Loss rate: 0.00%

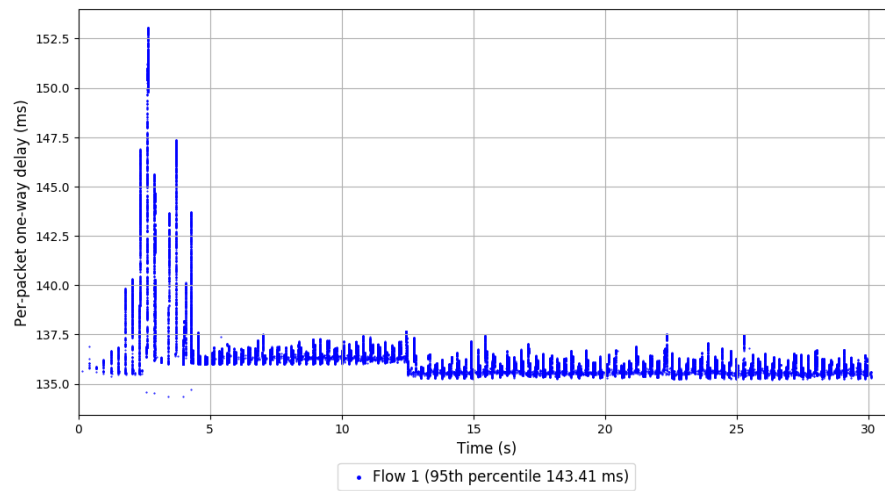
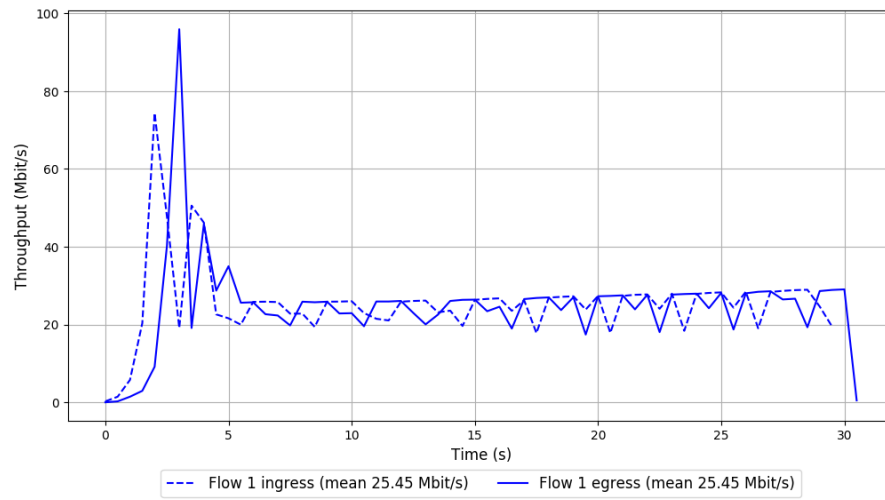
-- Flow 1:

Average throughput: 25.45 Mbit/s

95th percentile per-packet one-way delay: 143.408 ms

Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-06-19 08:22:05

End at: 2018-06-19 08:22:35

Local clock offset: -0.217 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 36.18 Mbit/s

95th percentile per-packet one-way delay: 139.399 ms

Loss rate: 0.00%

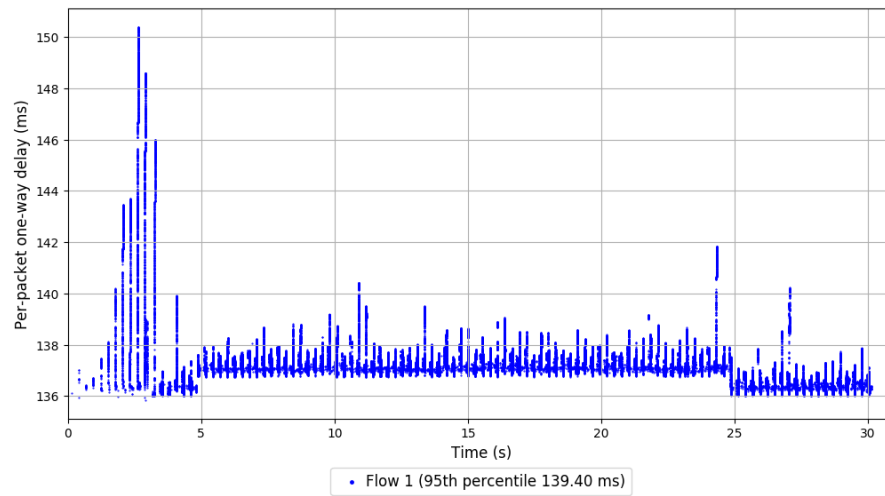
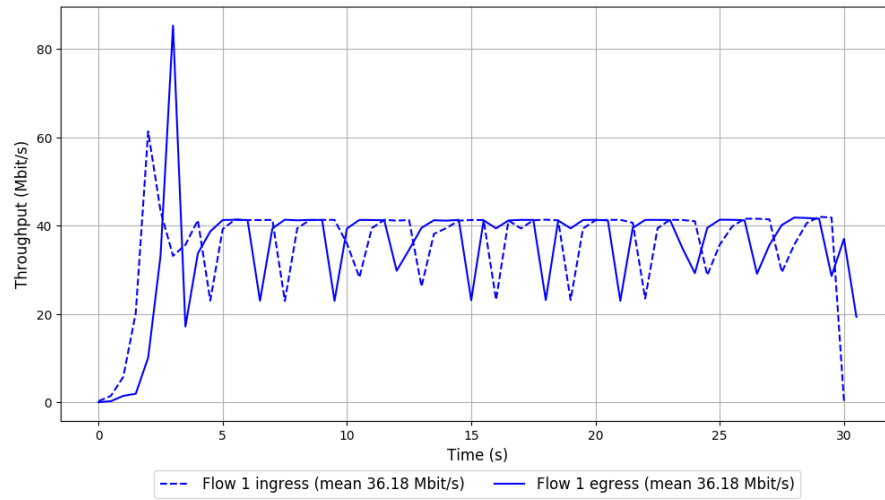
-- Flow 1:

Average throughput: 36.18 Mbit/s

95th percentile per-packet one-way delay: 139.399 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link

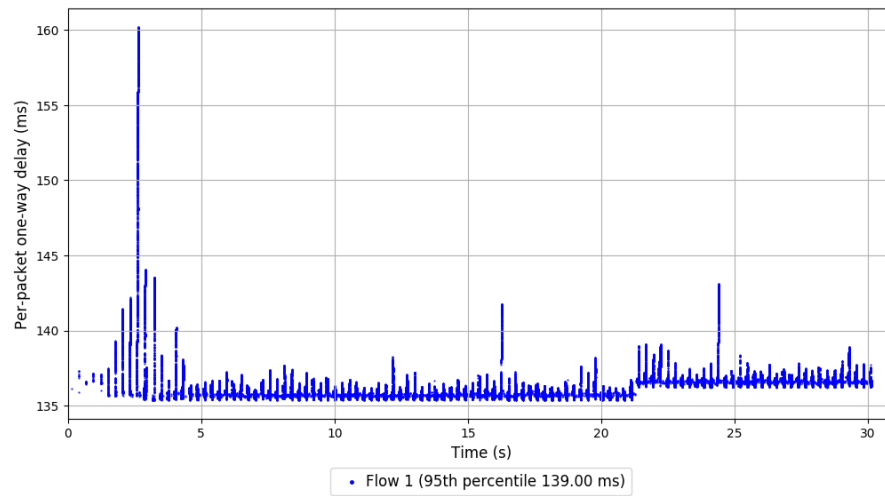
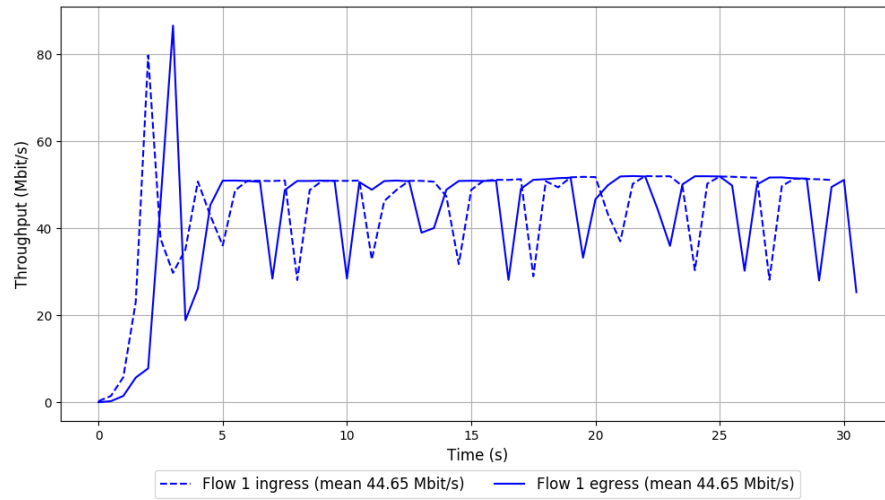


Run 9: Statistics of TCP Vegas

Start at: 2018-06-19 08:43:38
End at: 2018-06-19 08:44:08
Local clock offset: -0.009 ms
Remote clock offset: -0.464 ms

Below is generated by plot.py at 2018-06-19 10:32:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 44.65 Mbit/s
95th percentile per-packet one-way delay: 138.996 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 44.65 Mbit/s
95th percentile per-packet one-way delay: 138.996 ms
Loss rate: 0.00%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-06-19 09:04:50

End at: 2018-06-19 09:05:20

Local clock offset: 0.022 ms

Remote clock offset: -0.132 ms

Below is generated by plot.py at 2018-06-19 10:32:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 145.843 ms

Loss rate: 0.00%

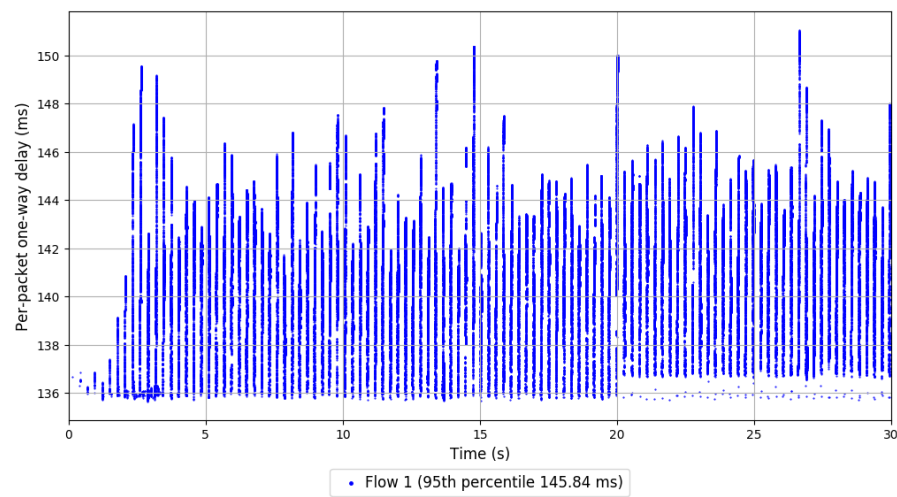
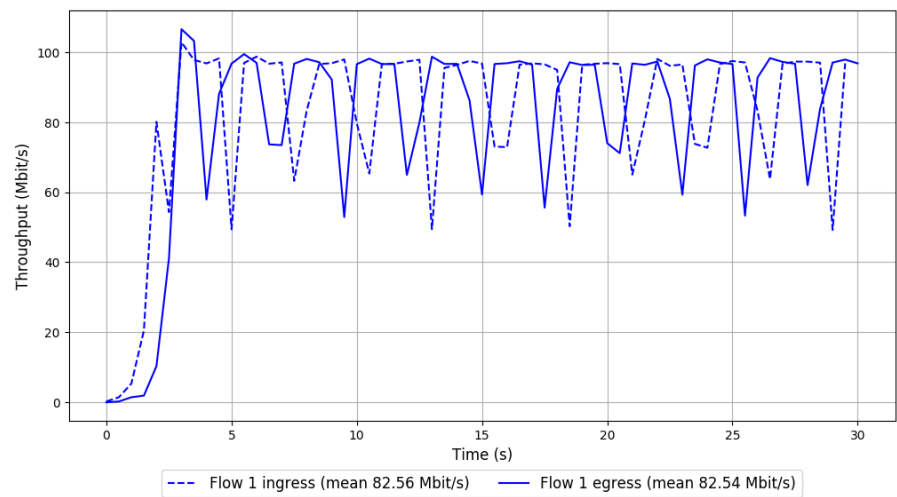
-- Flow 1:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 145.843 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link

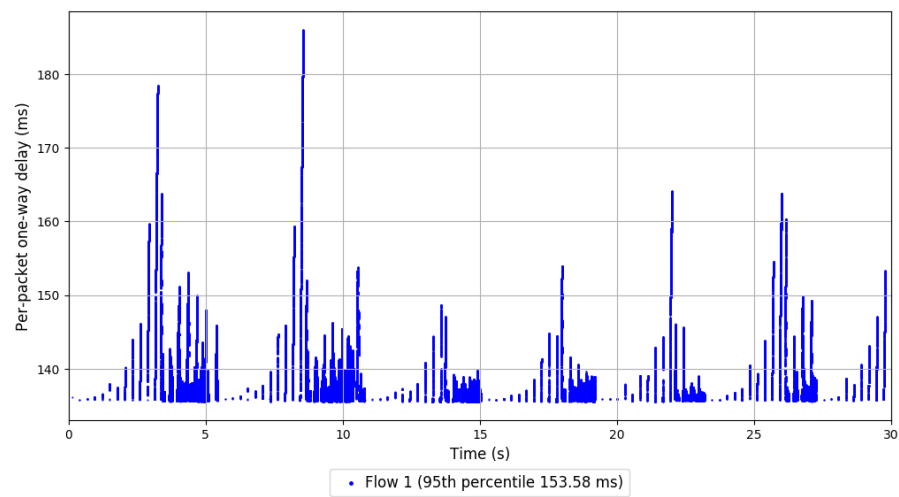
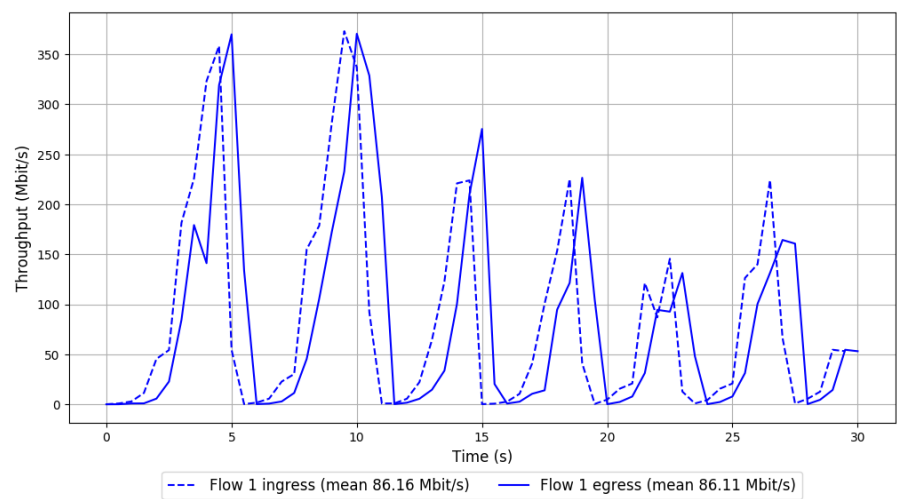


Run 1: Statistics of Verus

Start at: 2018-06-19 05:57:13
End at: 2018-06-19 05:57:43
Local clock offset: -0.139 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-06-19 10:32:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 153.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 153.582 ms
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

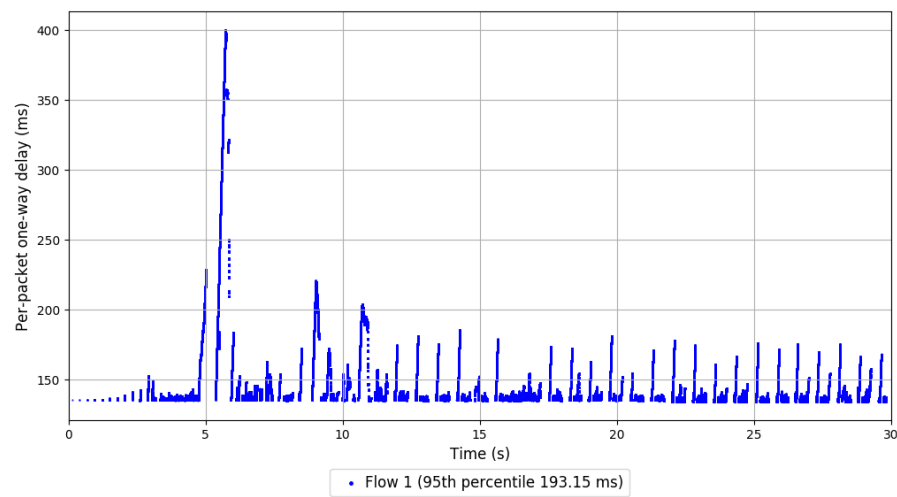
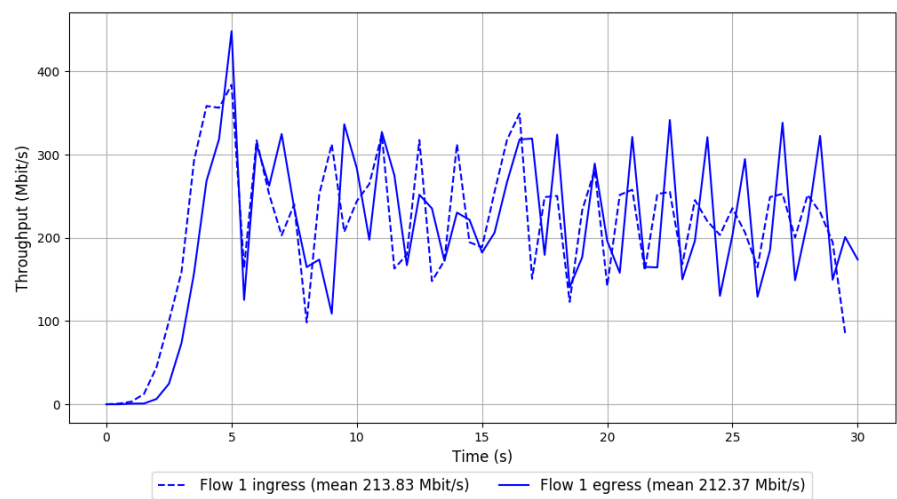


Run 2: Statistics of Verus

Start at: 2018-06-19 06:18:27
End at: 2018-06-19 06:18:57
Local clock offset: 0.25 ms
Remote clock offset: -0.352 ms

Below is generated by plot.py at 2018-06-19 10:34:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 212.37 Mbit/s
95th percentile per-packet one-way delay: 193.146 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 212.37 Mbit/s
95th percentile per-packet one-way delay: 193.146 ms
Loss rate: 0.68%

Run 2: Report of Verus — Data Link

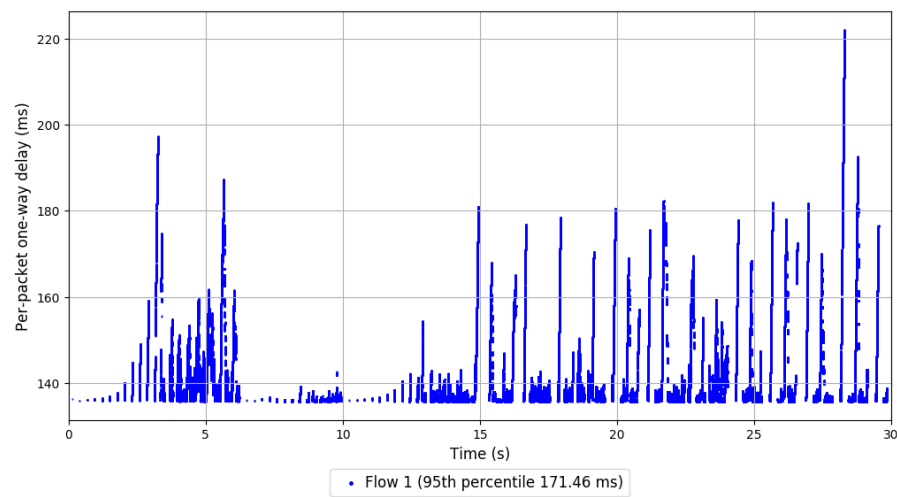
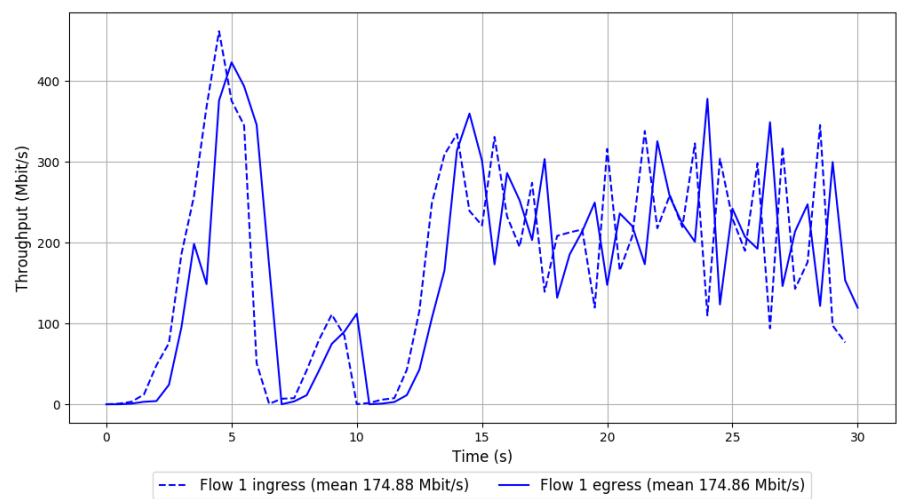


Run 3: Statistics of Verus

Start at: 2018-06-19 06:39:57
End at: 2018-06-19 06:40:27
Local clock offset: 0.12 ms
Remote clock offset: -0.025 ms

Below is generated by plot.py at 2018-06-19 10:34:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.86 Mbit/s
95th percentile per-packet one-way delay: 171.462 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 174.86 Mbit/s
95th percentile per-packet one-way delay: 171.462 ms
Loss rate: 0.01%

Run 3: Report of Verus — Data Link

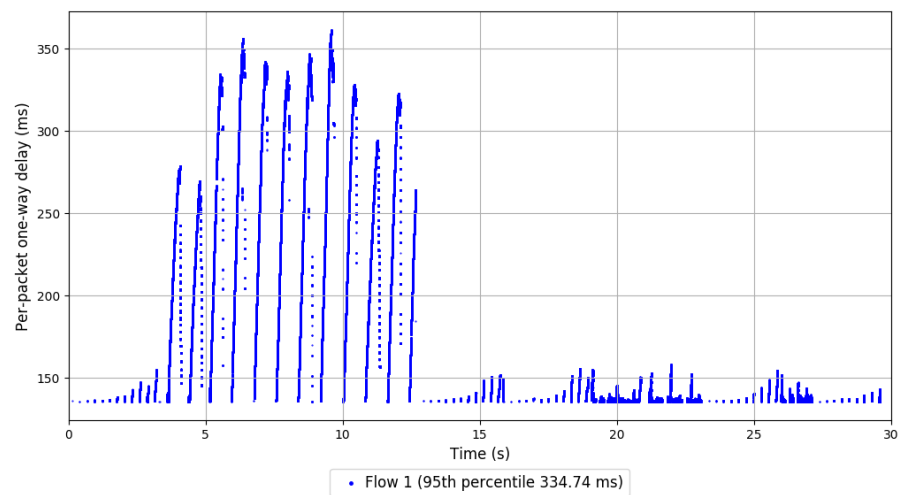
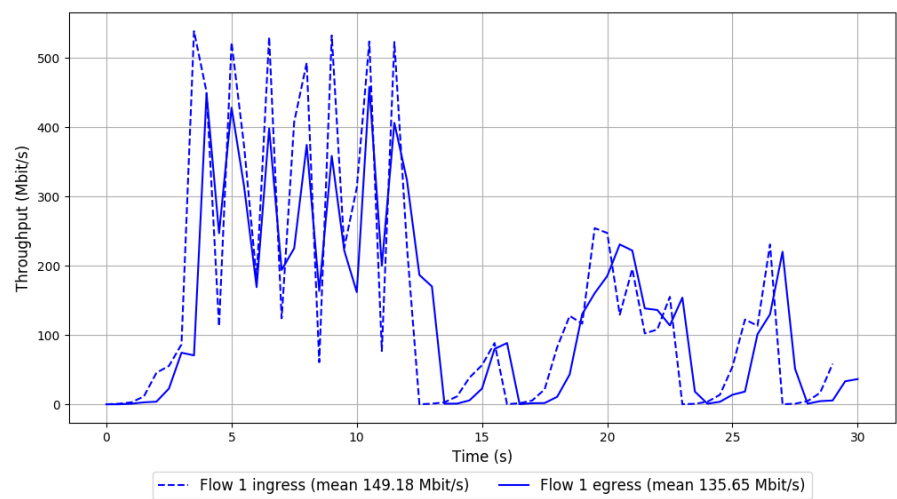


Run 4: Statistics of Verus

Start at: 2018-06-19 07:01:25
End at: 2018-06-19 07:01:55
Local clock offset: 0.048 ms
Remote clock offset: -0.361 ms

Below is generated by plot.py at 2018-06-19 10:34:32
Datalink statistics
-- Total of 1 flow:
Average throughput: 135.65 Mbit/s
95th percentile per-packet one-way delay: 334.738 ms
Loss rate: 9.05%
-- Flow 1:
Average throughput: 135.65 Mbit/s
95th percentile per-packet one-way delay: 334.738 ms
Loss rate: 9.05%

Run 4: Report of Verus — Data Link

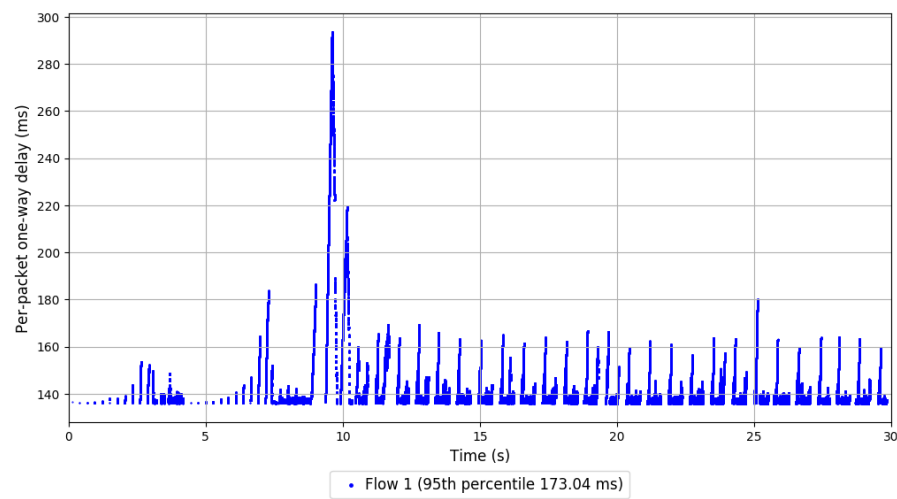
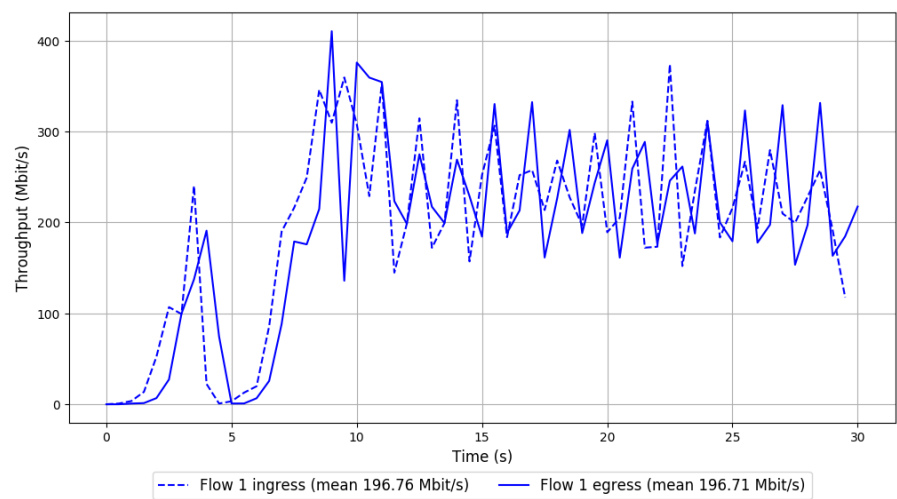


Run 5: Statistics of Verus

Start at: 2018-06-19 07:23:00
End at: 2018-06-19 07:23:30
Local clock offset: 0.025 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-06-19 10:34:38
Datalink statistics
-- Total of 1 flow:
Average throughput: 196.71 Mbit/s
95th percentile per-packet one-way delay: 173.042 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 196.71 Mbit/s
95th percentile per-packet one-way delay: 173.042 ms
Loss rate: 0.03%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-19 07:44:42

End at: 2018-06-19 07:45:12

Local clock offset: 0.001 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-06-19 10:34:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 176.79 Mbit/s

95th percentile per-packet one-way delay: 170.315 ms

Loss rate: 0.00%

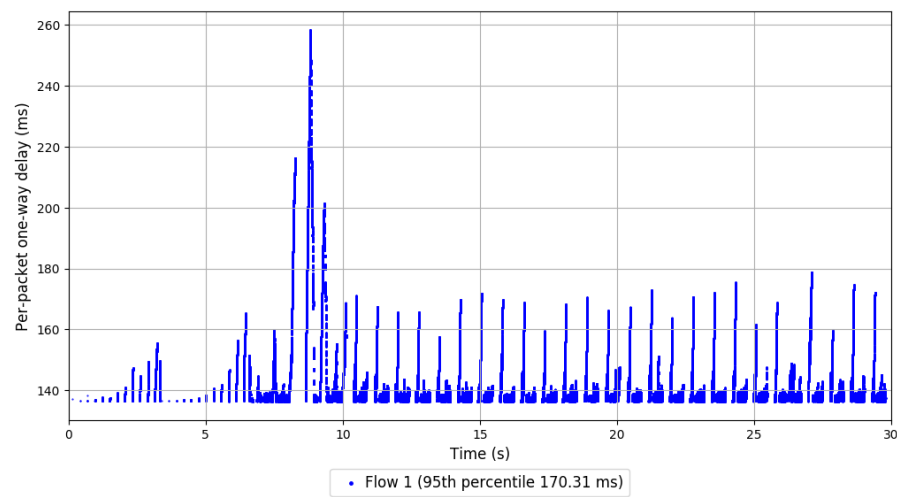
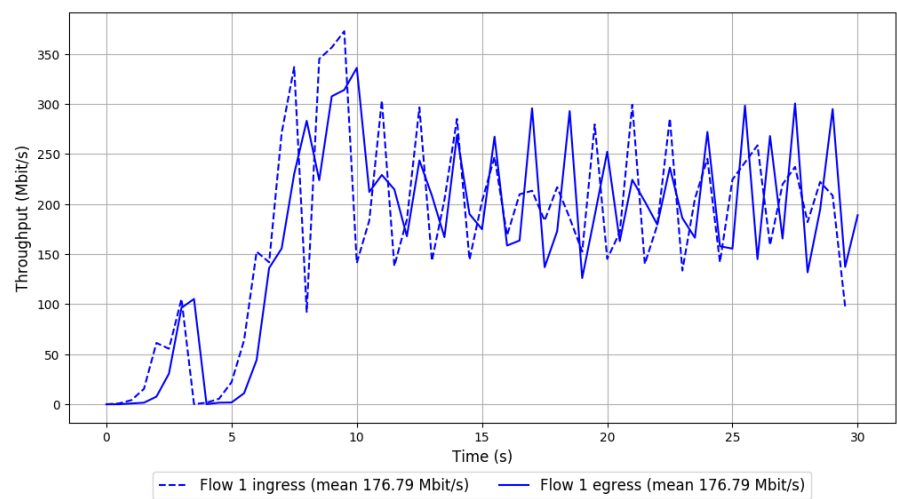
-- Flow 1:

Average throughput: 176.79 Mbit/s

95th percentile per-packet one-way delay: 170.315 ms

Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-19 08:06:03

End at: 2018-06-19 08:06:33

Local clock offset: 2.282 ms

Remote clock offset: 0.422 ms

Below is generated by plot.py at 2018-06-19 10:34:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 148.91 Mbit/s

95th percentile per-packet one-way delay: 166.633 ms

Loss rate: 0.00%

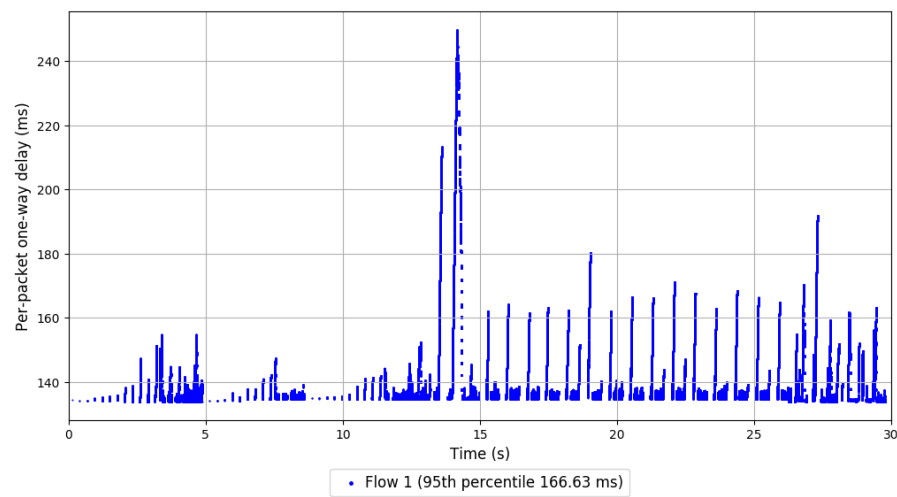
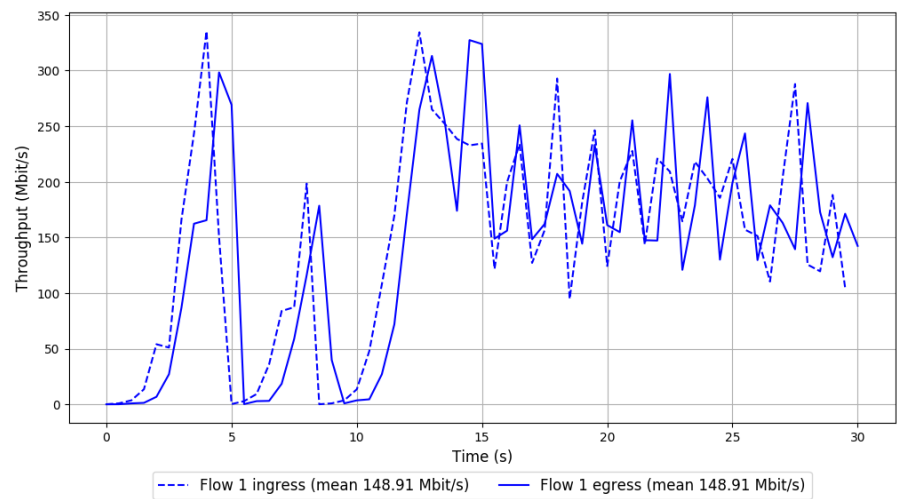
-- Flow 1:

Average throughput: 148.91 Mbit/s

95th percentile per-packet one-way delay: 166.633 ms

Loss rate: 0.00%

Run 7: Report of Verus — Data Link

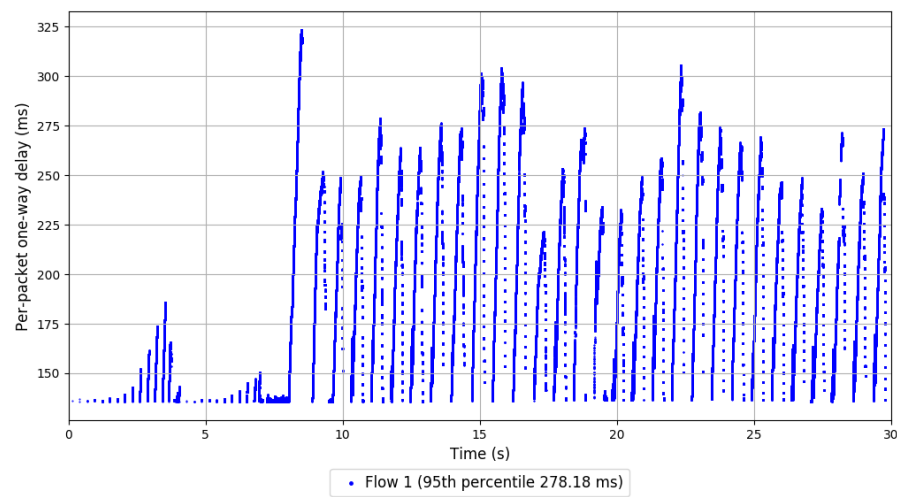
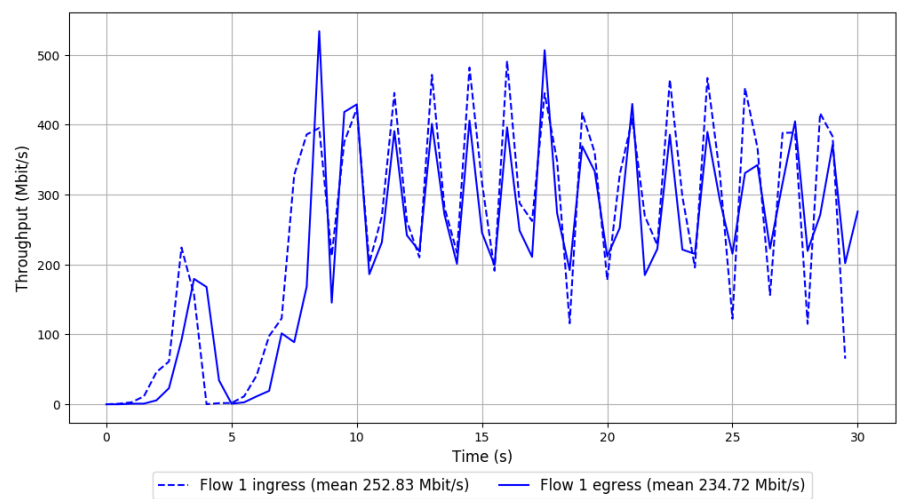


Run 8: Statistics of Verus

Start at: 2018-06-19 08:27:12
End at: 2018-06-19 08:27:42
Local clock offset: 0.059 ms
Remote clock offset: -0.426 ms

Below is generated by plot.py at 2018-06-19 10:36:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 234.72 Mbit/s
95th percentile per-packet one-way delay: 278.182 ms
Loss rate: 7.16%
-- Flow 1:
Average throughput: 234.72 Mbit/s
95th percentile per-packet one-way delay: 278.182 ms
Loss rate: 7.16%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-06-19 08:48:44

End at: 2018-06-19 08:49:14

Local clock offset: 0.029 ms

Remote clock offset: 0.296 ms

Below is generated by plot.py at 2018-06-19 10:36:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 73.33 Mbit/s

95th percentile per-packet one-way delay: 170.834 ms

Loss rate: 0.00%

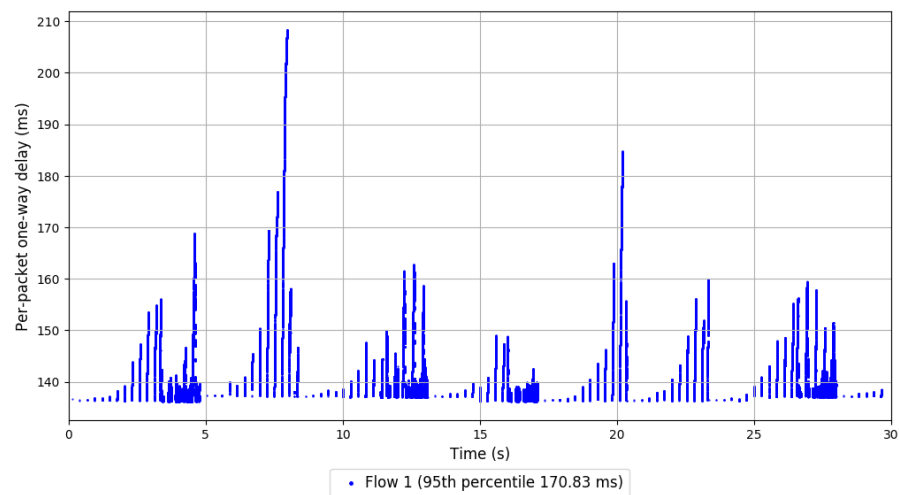
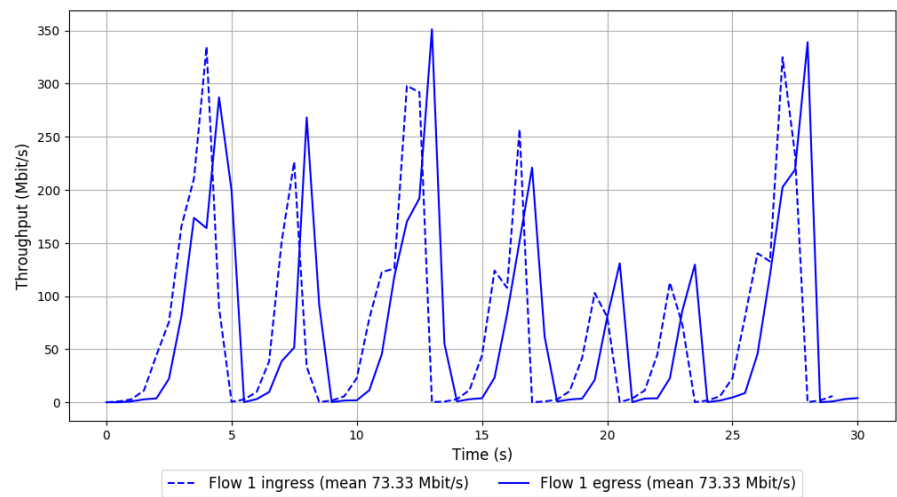
-- Flow 1:

Average throughput: 73.33 Mbit/s

95th percentile per-packet one-way delay: 170.834 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link

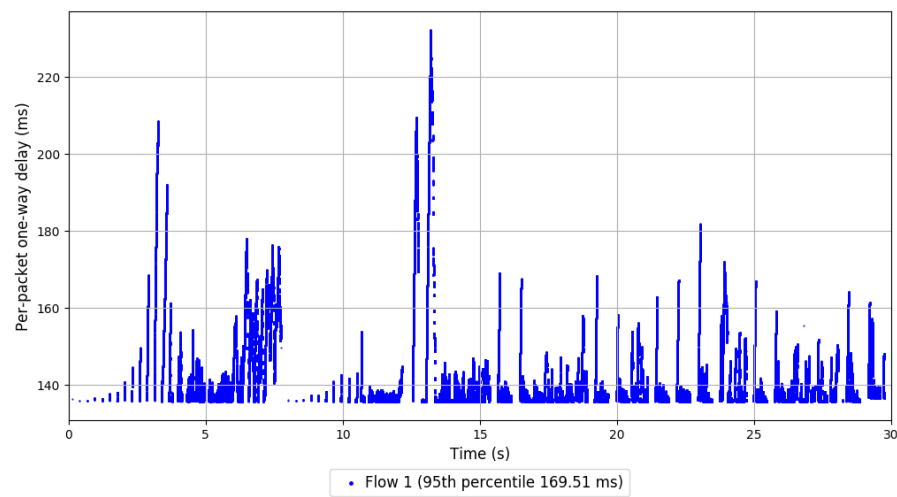
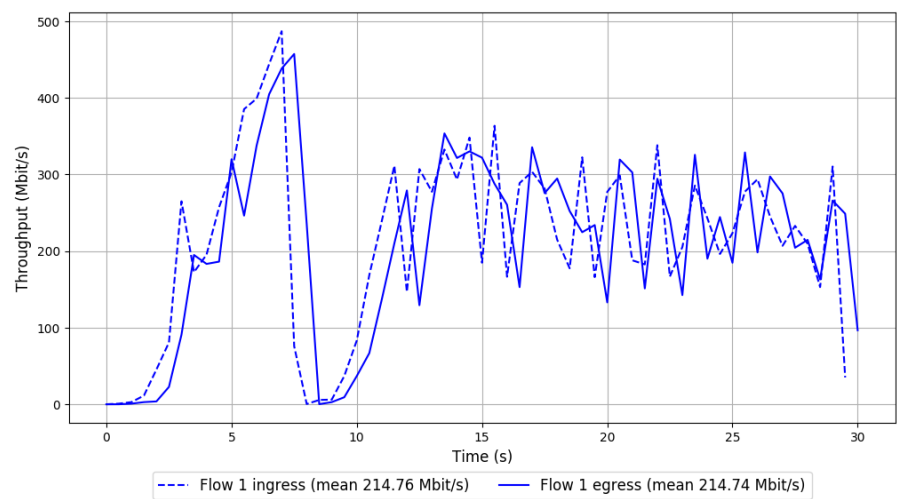


Run 10: Statistics of Verus

Start at: 2018-06-19 09:10:00
End at: 2018-06-19 09:10:30
Local clock offset: -0.044 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-06-19 10:36:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 214.74 Mbit/s
95th percentile per-packet one-way delay: 169.514 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.74 Mbit/s
95th percentile per-packet one-way delay: 169.514 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-19 05:54:25

End at: 2018-06-19 05:54:55

Local clock offset: 0.003 ms

Remote clock offset: -0.332 ms

Below is generated by plot.py at 2018-06-19 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 340.91 Mbit/s

95th percentile per-packet one-way delay: 152.595 ms

Loss rate: 0.00%

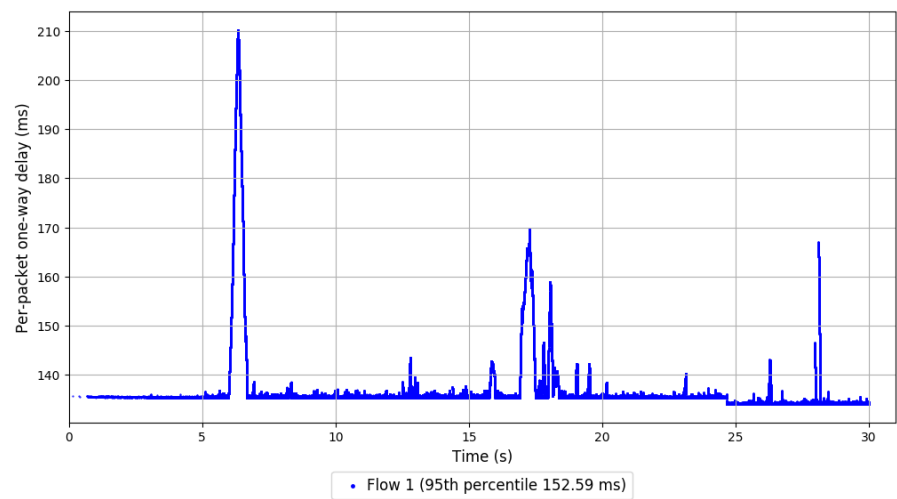
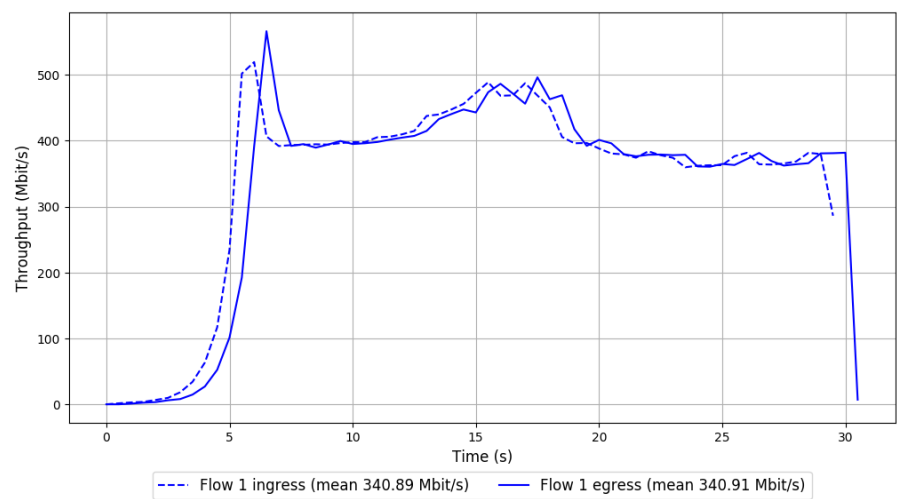
-- Flow 1:

Average throughput: 340.91 Mbit/s

95th percentile per-packet one-way delay: 152.595 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

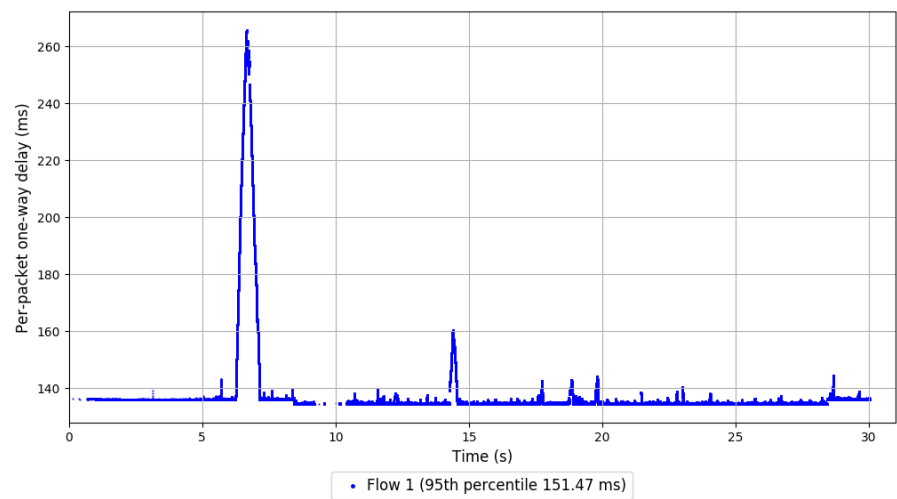
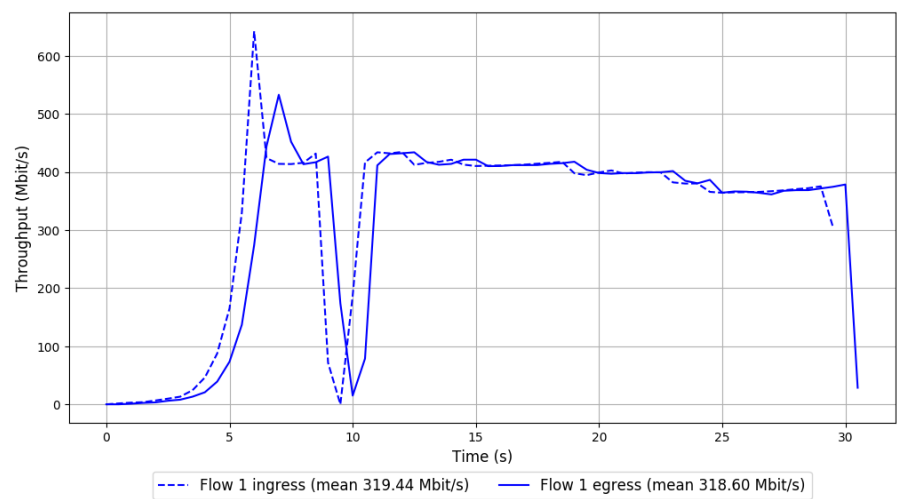


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-19 06:15:41
End at: 2018-06-19 06:16:11
Local clock offset: 0.037 ms
Remote clock offset: -0.354 ms

Below is generated by plot.py at 2018-06-19 10:39:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 318.60 Mbit/s
95th percentile per-packet one-way delay: 151.465 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 318.60 Mbit/s
95th percentile per-packet one-way delay: 151.465 ms
Loss rate: 0.27%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-06-19 06:37:12

End at: 2018-06-19 06:37:42

Local clock offset: 0.196 ms

Remote clock offset: 0.418 ms

Below is generated by plot.py at 2018-06-19 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.43 Mbit/s

95th percentile per-packet one-way delay: 141.667 ms

Loss rate: 0.11%

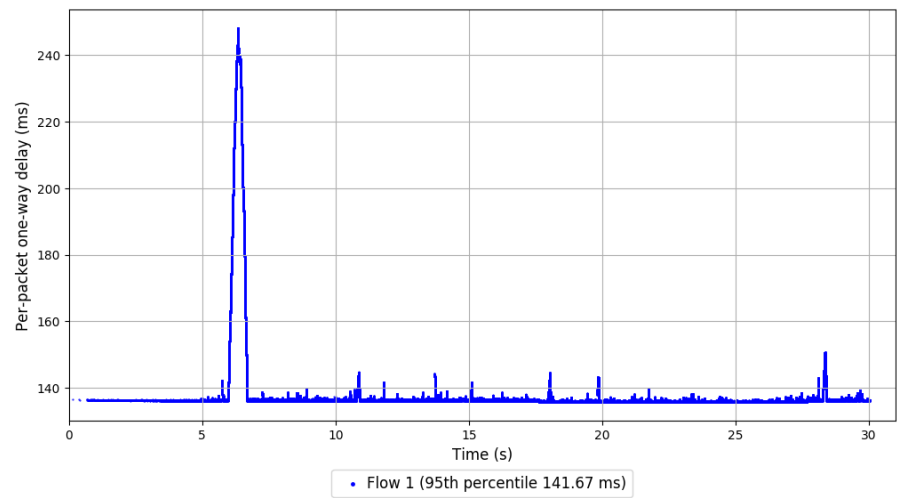
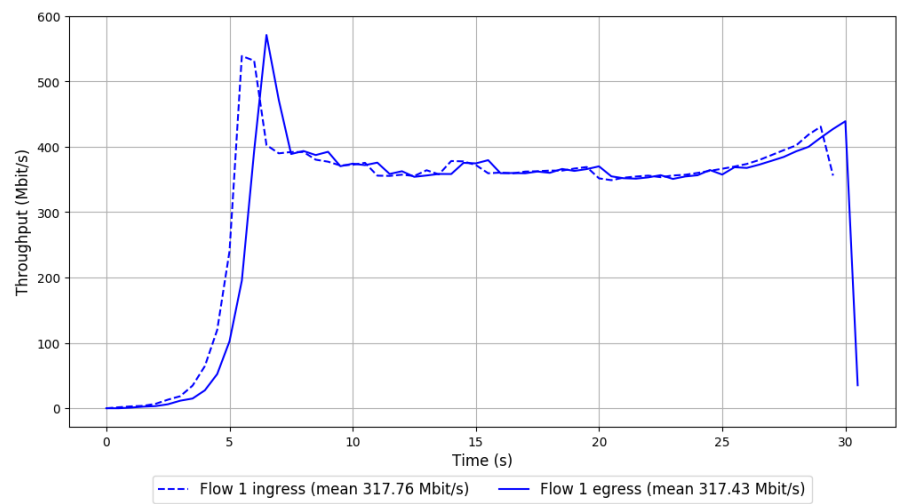
-- Flow 1:

Average throughput: 317.43 Mbit/s

95th percentile per-packet one-way delay: 141.667 ms

Loss rate: 0.11%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-06-19 06:58:43

End at: 2018-06-19 06:59:13

Local clock offset: 0.051 ms

Remote clock offset: -0.345 ms

Below is generated by plot.py at 2018-06-19 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 262.53 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.01%

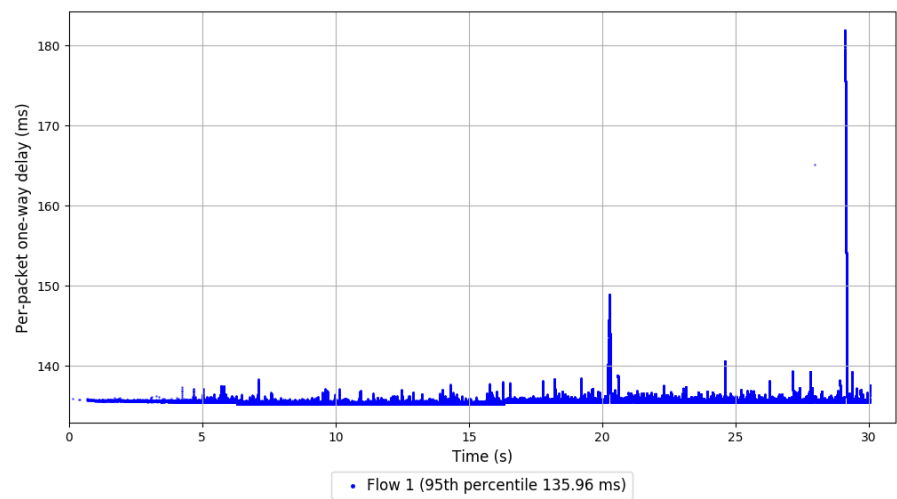
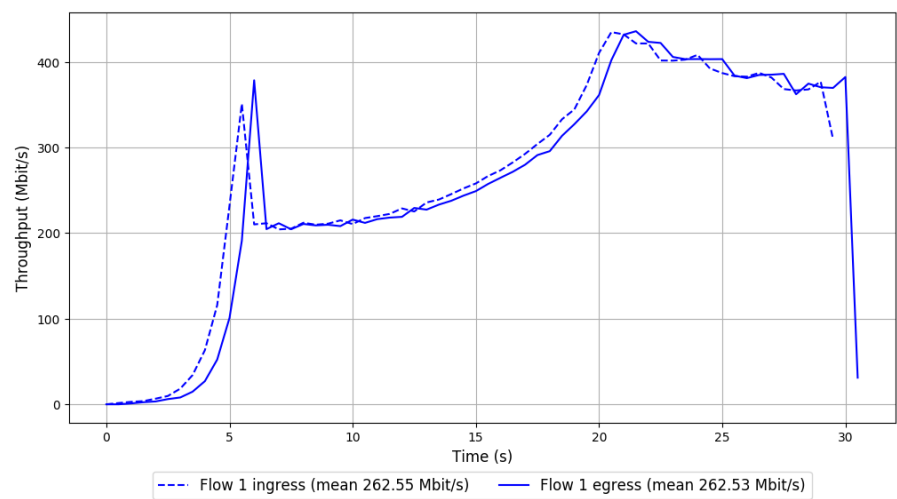
-- Flow 1:

Average throughput: 262.53 Mbit/s

95th percentile per-packet one-way delay: 135.960 ms

Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-19 07:20:13

End at: 2018-06-19 07:20:43

Local clock offset: 0.23 ms

Remote clock offset: 0.005 ms

Below is generated by plot.py at 2018-06-19 10:39:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 308.84 Mbit/s

95th percentile per-packet one-way delay: 138.281 ms

Loss rate: 0.00%

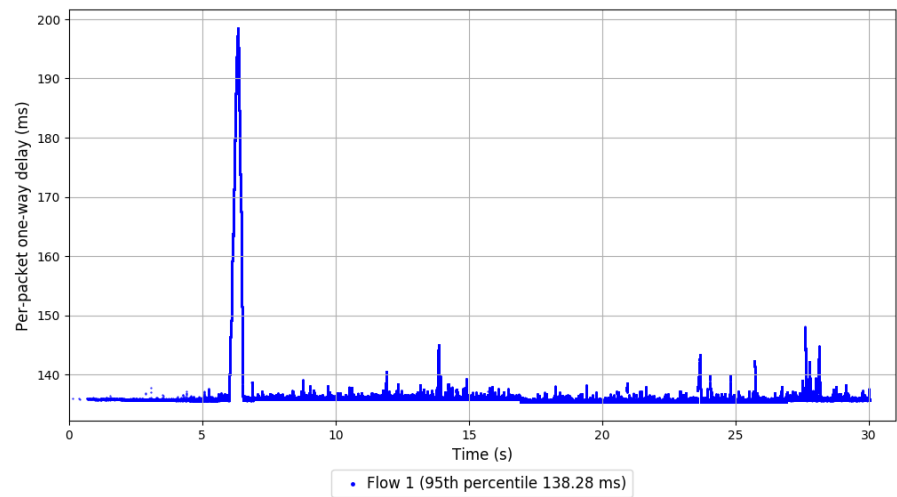
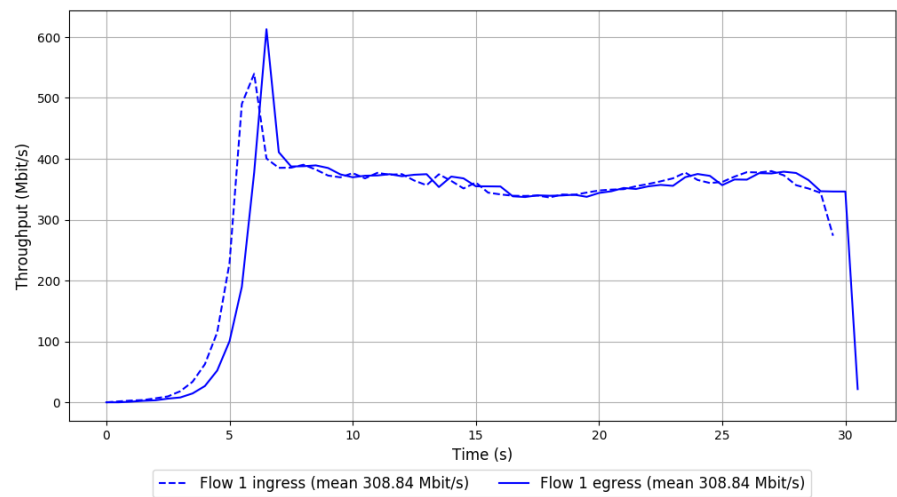
-- Flow 1:

Average throughput: 308.84 Mbit/s

95th percentile per-packet one-way delay: 138.281 ms

Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-06-19 07:41:53

End at: 2018-06-19 07:42:23

Local clock offset: -0.114 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-06-19 10:40:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.26 Mbit/s

95th percentile per-packet one-way delay: 148.510 ms

Loss rate: 0.01%

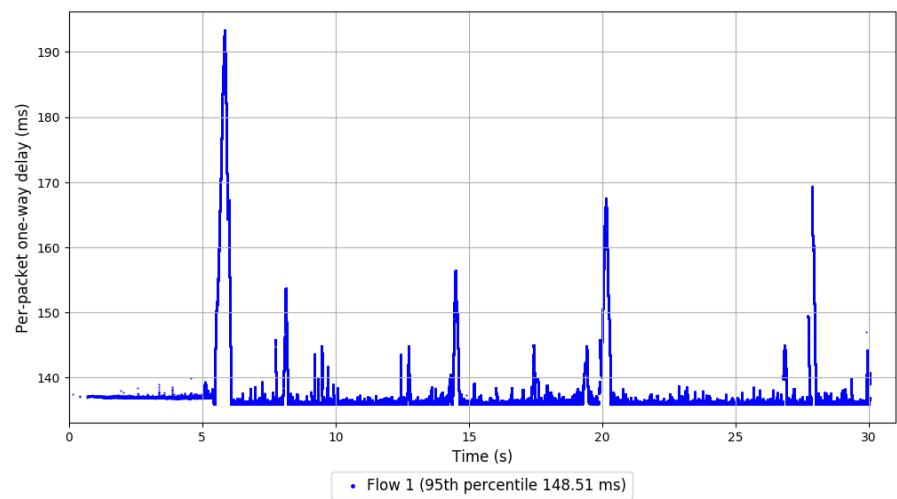
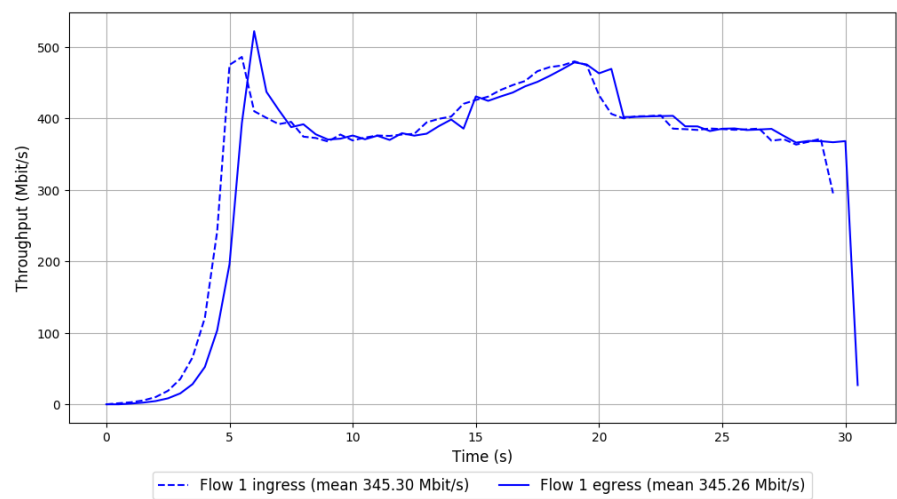
-- Flow 1:

Average throughput: 345.26 Mbit/s

95th percentile per-packet one-way delay: 148.510 ms

Loss rate: 0.01%

Run 6: Report of PCC-Vivace — Data Link

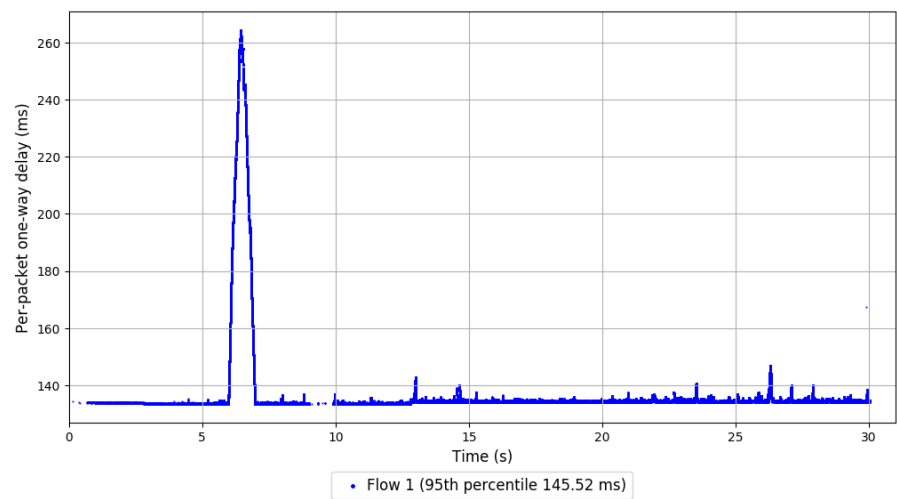
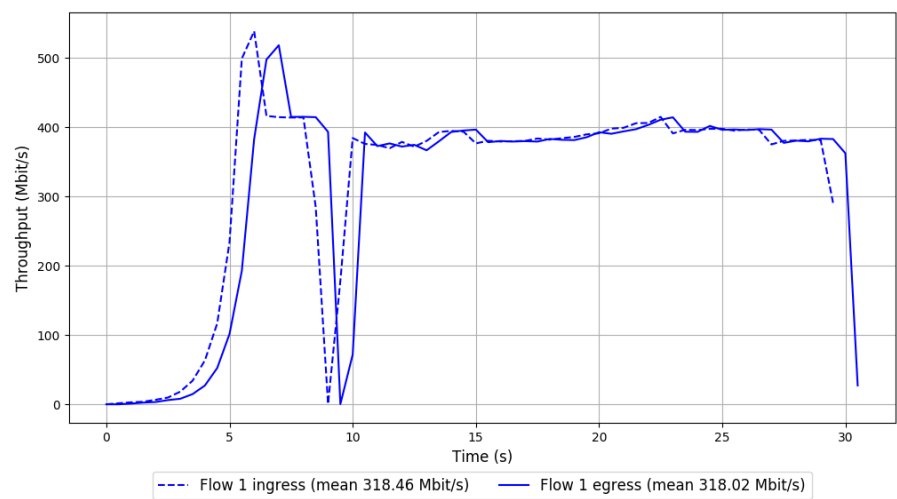


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-19 08:03:17
End at: 2018-06-19 08:03:47
Local clock offset: 1.742 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-06-19 10:41:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 318.02 Mbit/s
95th percentile per-packet one-way delay: 145.523 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 318.02 Mbit/s
95th percentile per-packet one-way delay: 145.523 ms
Loss rate: 0.14%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-19 08:24:25

End at: 2018-06-19 08:24:55

Local clock offset: 0.295 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-06-19 10:41:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.72 Mbit/s

95th percentile per-packet one-way delay: 139.008 ms

Loss rate: 0.00%

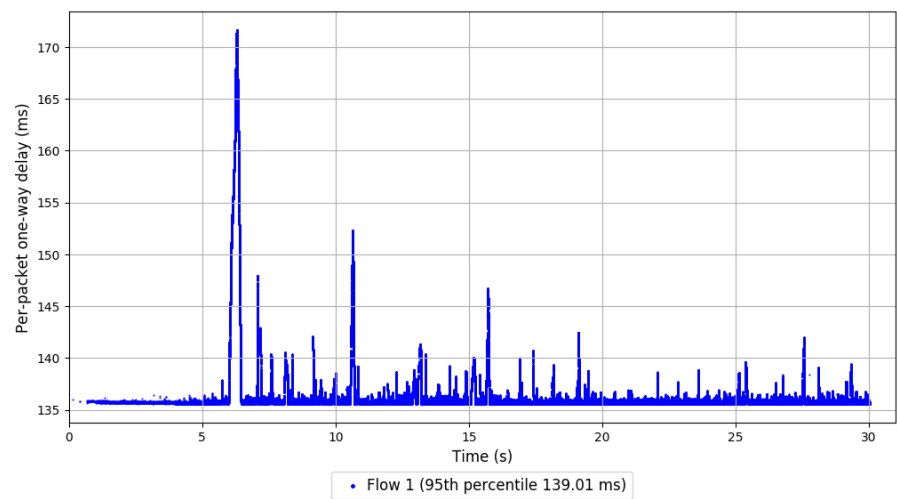
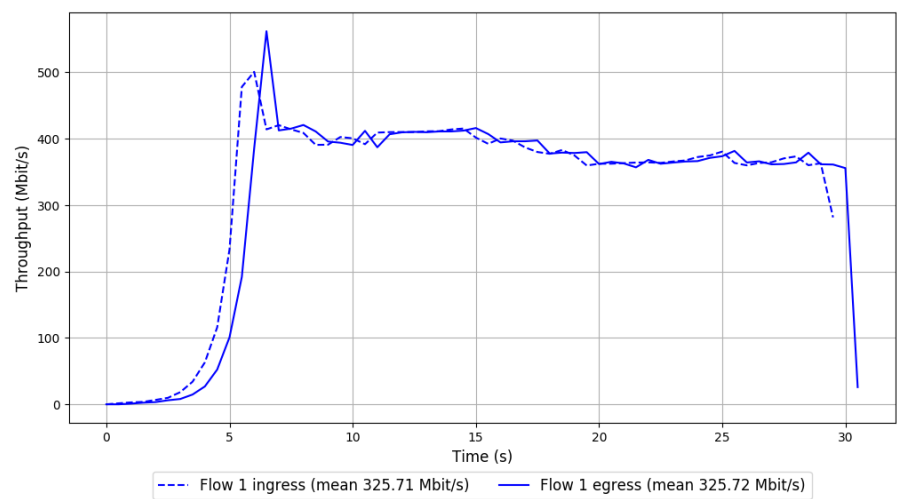
-- Flow 1:

Average throughput: 325.72 Mbit/s

95th percentile per-packet one-way delay: 139.008 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link

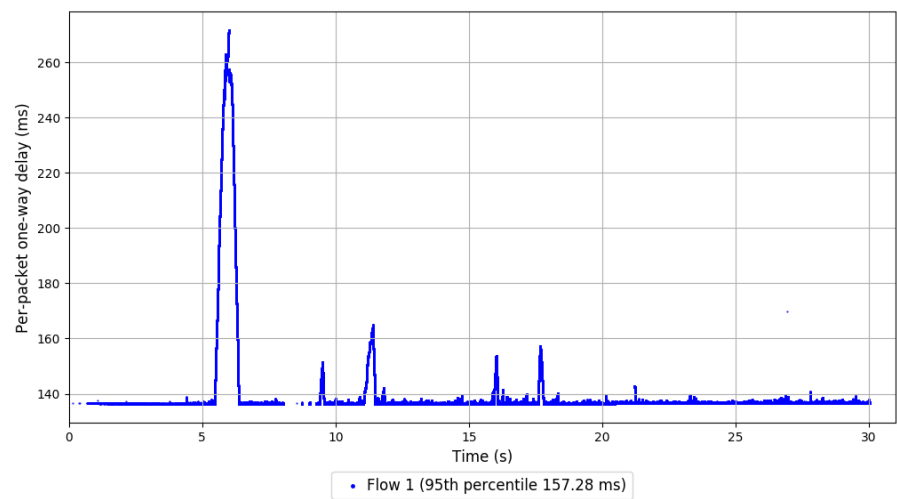
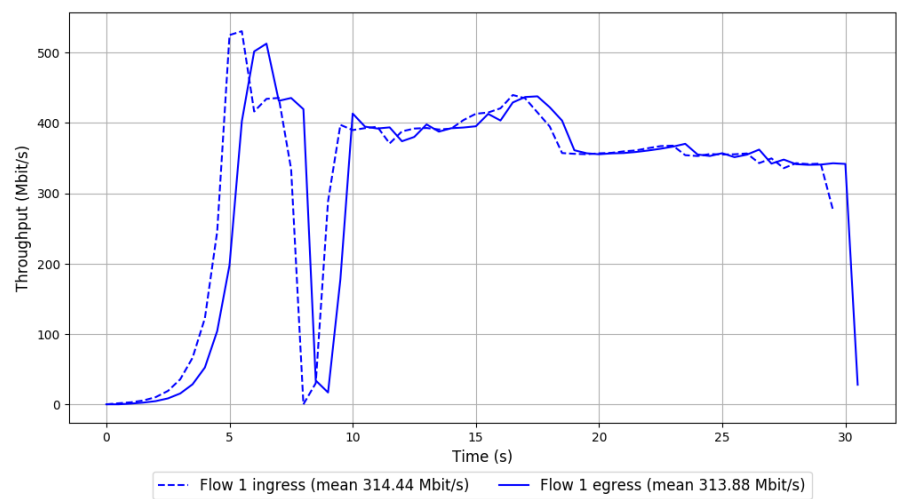


Run 9: Statistics of PCC-Vivace

Start at: 2018-06-19 08:45:59
End at: 2018-06-19 08:46:29
Local clock offset: 0.017 ms
Remote clock offset: -0.059 ms

Below is generated by plot.py at 2018-06-19 10:41:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 313.88 Mbit/s
95th percentile per-packet one-way delay: 157.285 ms
Loss rate: 0.18%
-- Flow 1:
Average throughput: 313.88 Mbit/s
95th percentile per-packet one-way delay: 157.285 ms
Loss rate: 0.18%

Run 9: Report of PCC-Vivace — Data Link

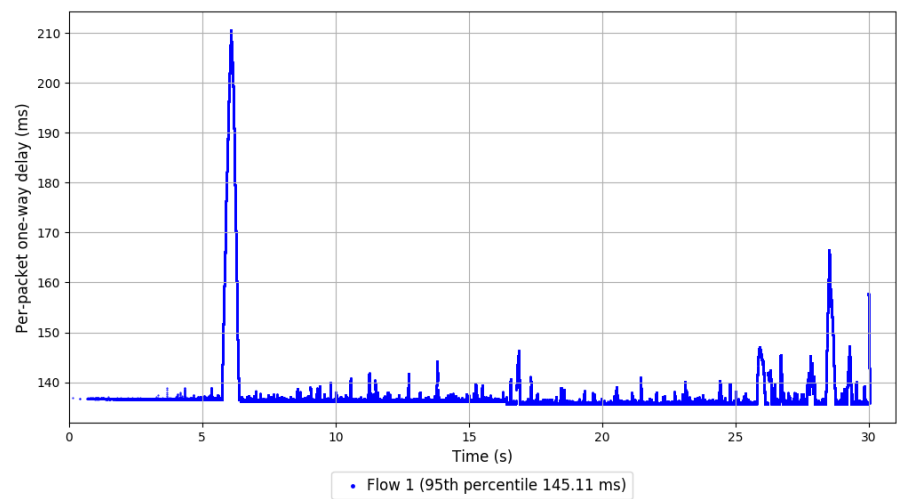
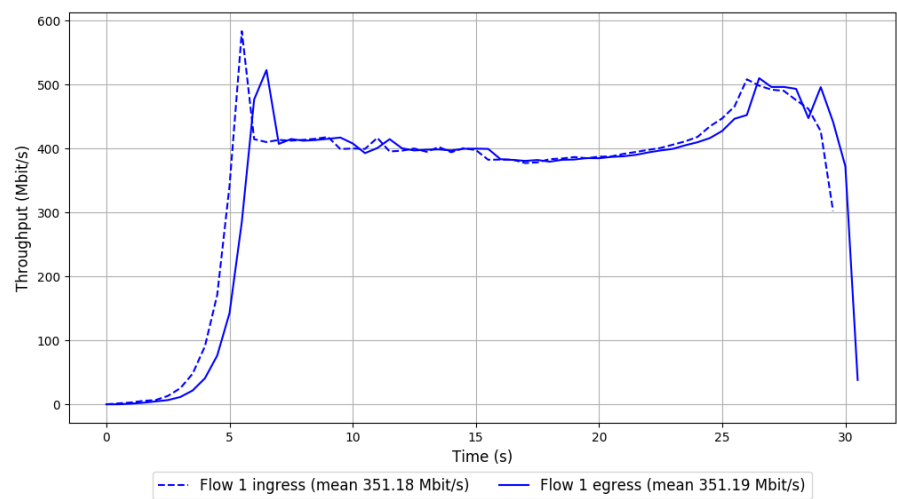


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-19 09:07:12
End at: 2018-06-19 09:07:42
Local clock offset: -0.012 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-06-19 10:41:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 351.19 Mbit/s
95th percentile per-packet one-way delay: 145.110 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 351.19 Mbit/s
95th percentile per-packet one-way delay: 145.110 ms
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

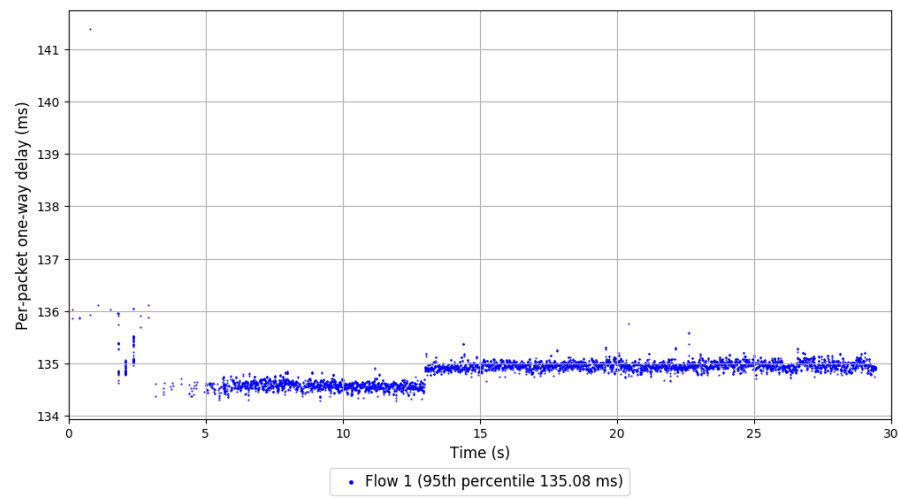
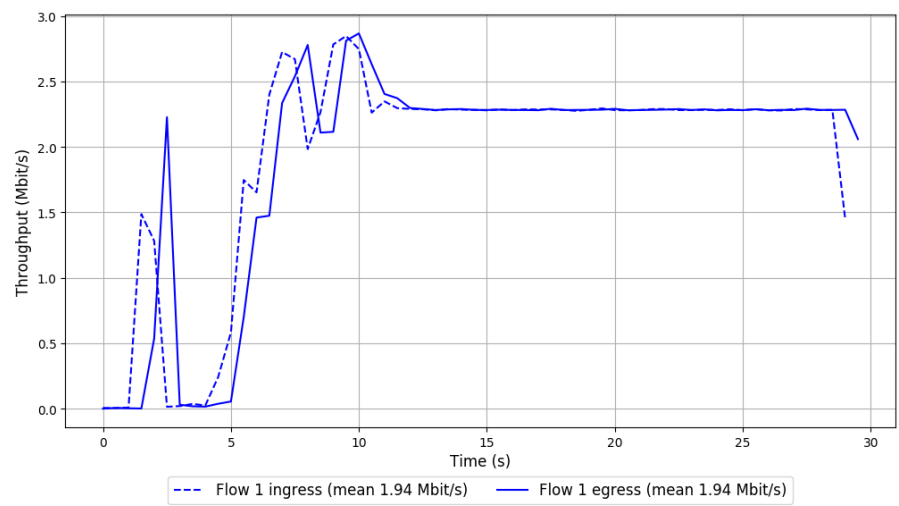


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-19 05:53:16
End at: 2018-06-19 05:53:46
Local clock offset: -0.114 ms
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2018-06-19 10:41:56
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 135.081 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 135.081 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

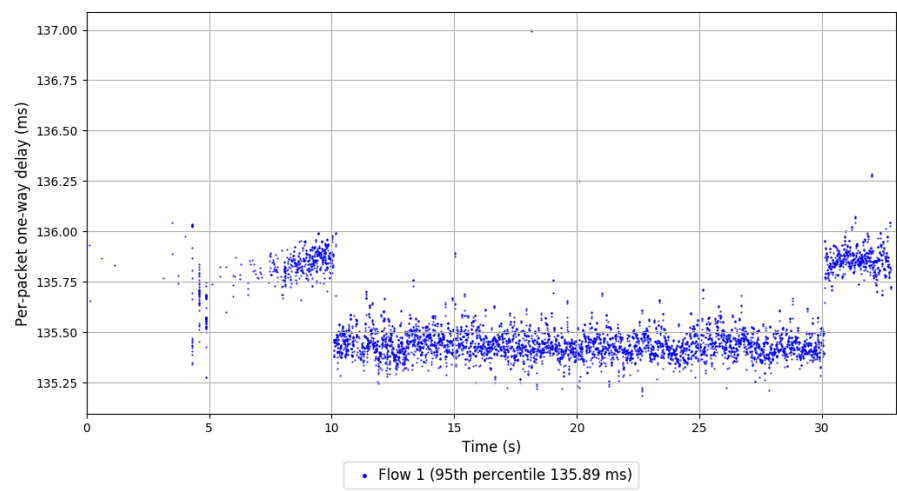
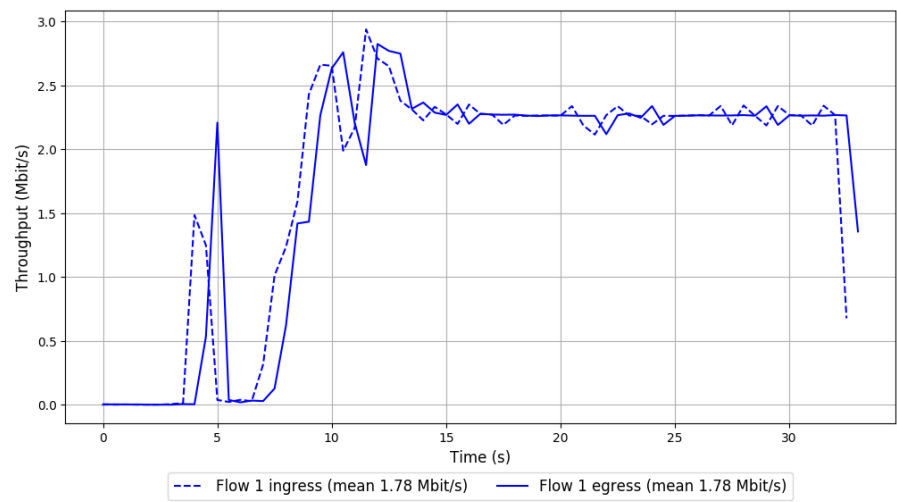


Run 2: Statistics of WebRTC media

Start at: 2018-06-19 06:14:32
End at: 2018-06-19 06:15:02
Local clock offset: 0.286 ms
Remote clock offset: -0.358 ms

Below is generated by plot.py at 2018-06-19 10:41:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 135.891 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.78 Mbit/s
95th percentile per-packet one-way delay: 135.891 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-19 06:36:03

End at: 2018-06-19 06:36:33

Local clock offset: 0.0 ms

Remote clock offset: 0.016 ms

Below is generated by plot.py at 2018-06-19 10:41:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 0.00%

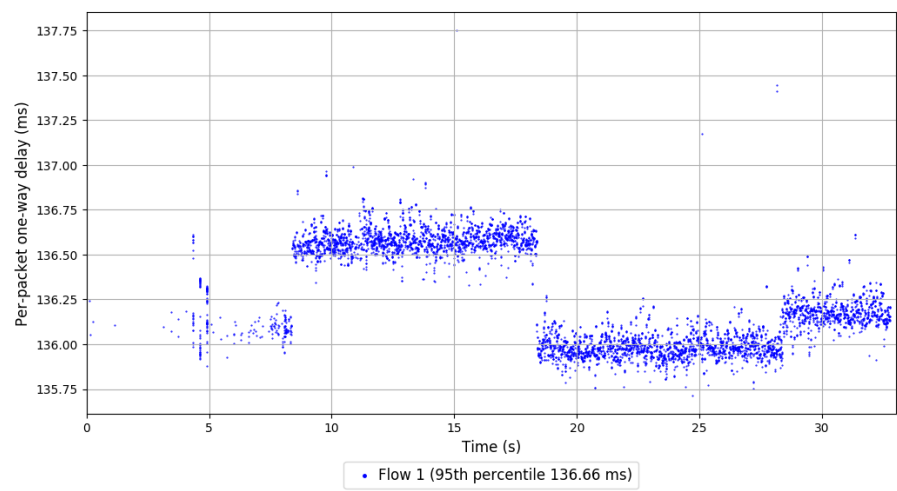
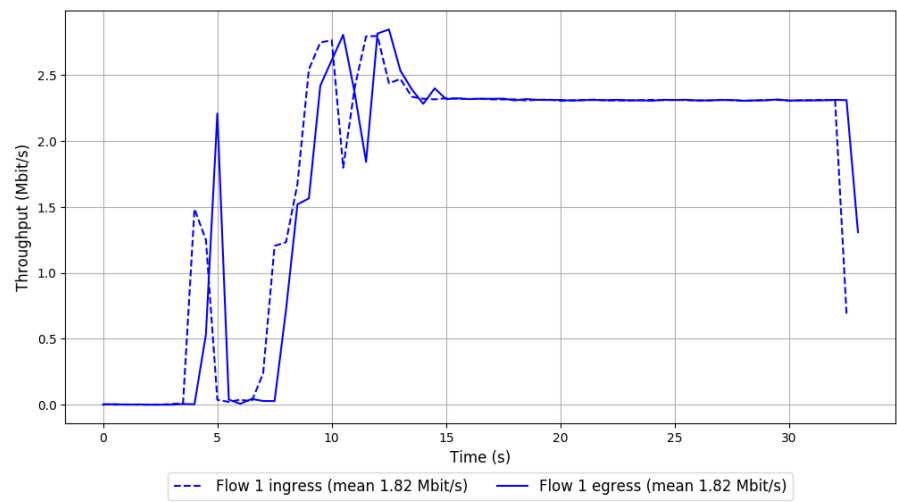
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 136.656 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-19 06:57:34

End at: 2018-06-19 06:58:04

Local clock offset: 0.1 ms

Remote clock offset: -0.353 ms

Below is generated by plot.py at 2018-06-19 10:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 135.891 ms

Loss rate: 0.00%

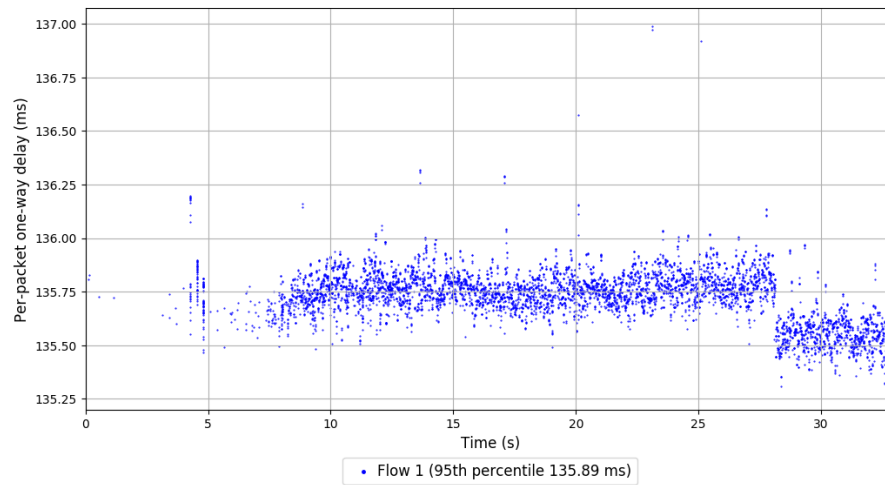
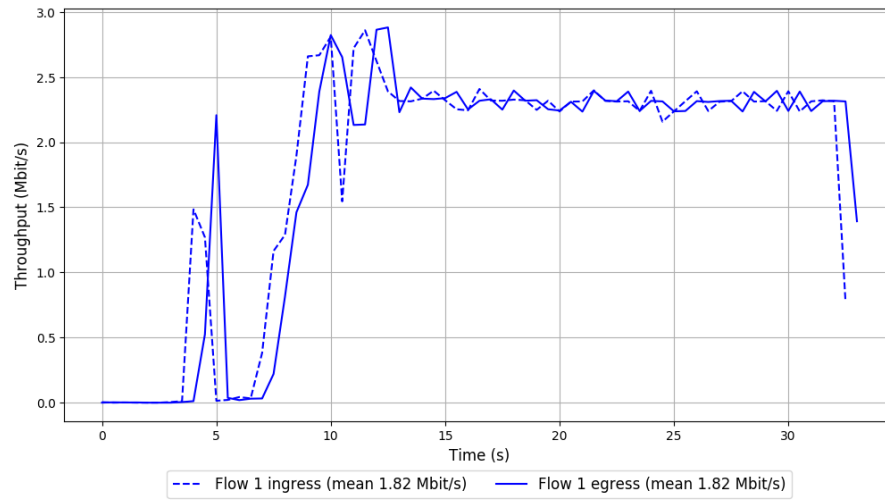
-- Flow 1:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 135.891 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-19 07:19:04

End at: 2018-06-19 07:19:34

Local clock offset: 0.143 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-06-19 10:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 136.764 ms

Loss rate: 0.00%

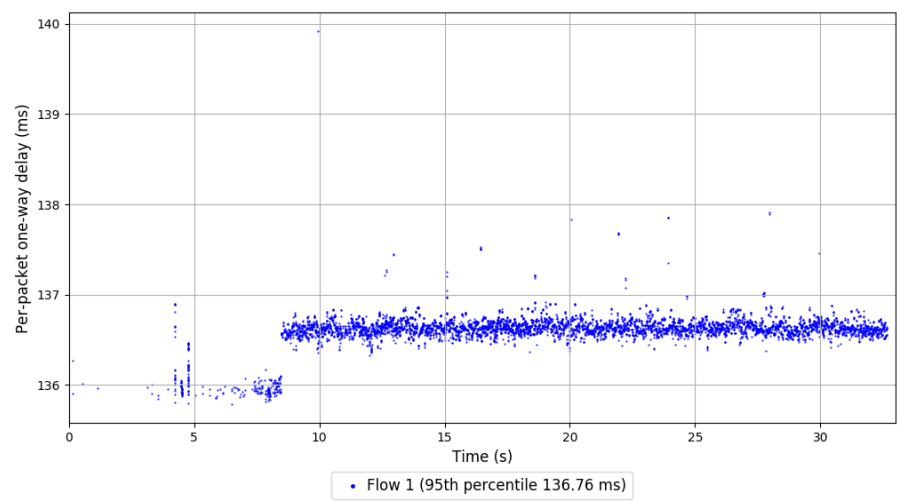
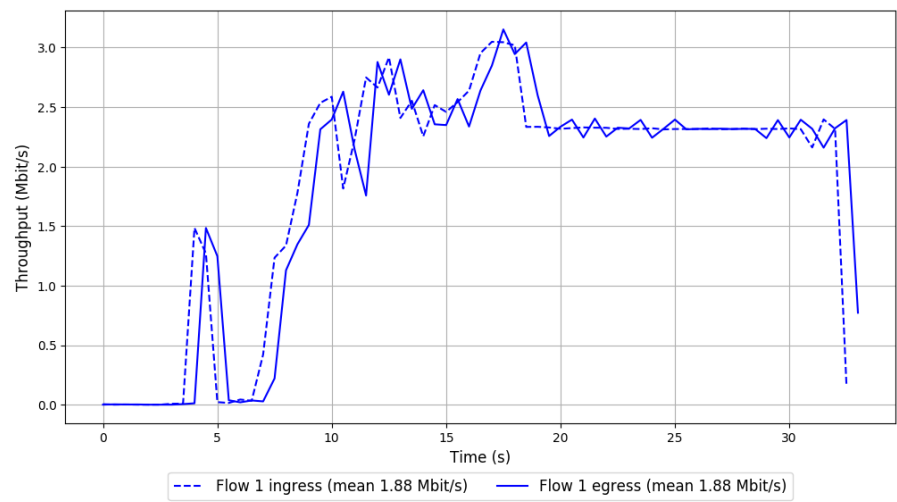
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 136.764 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

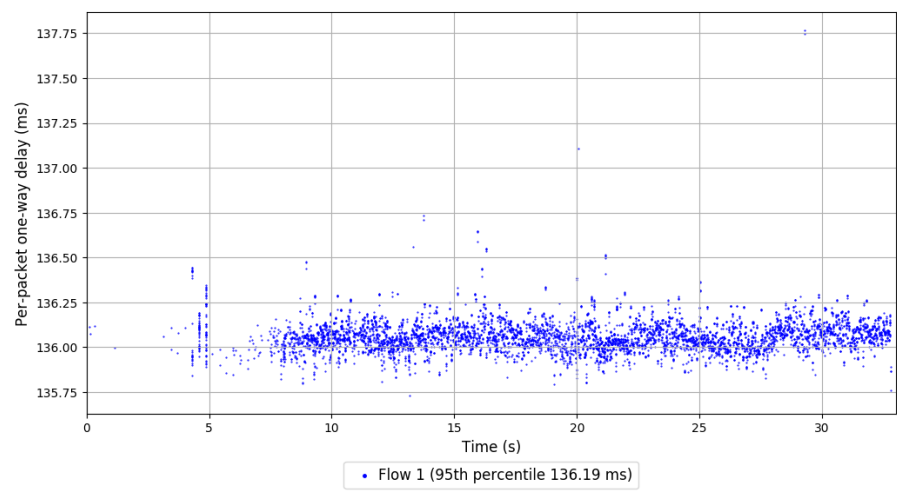
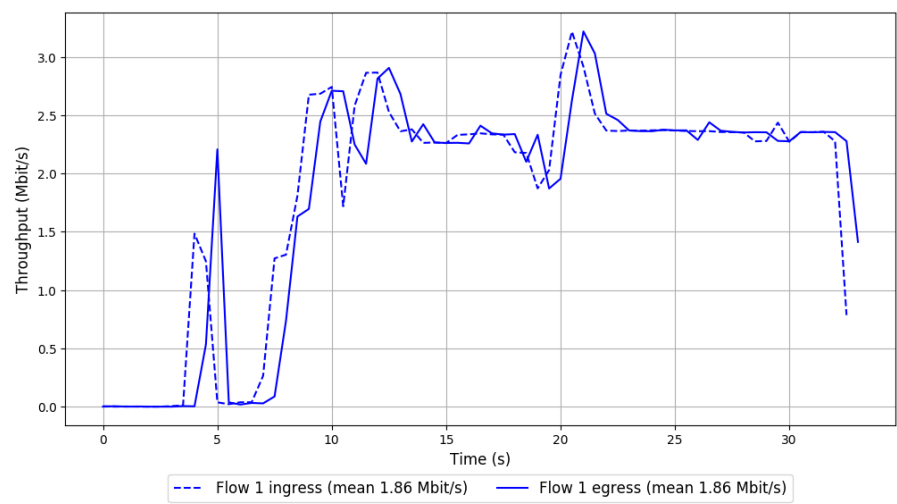


Run 6: Statistics of WebRTC media

Start at: 2018-06-19 07:40:44
End at: 2018-06-19 07:41:14
Local clock offset: 0.158 ms
Remote clock offset: -0.001 ms

Below is generated by plot.py at 2018-06-19 10:41:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.194 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.86 Mbit/s
95th percentile per-packet one-way delay: 136.194 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

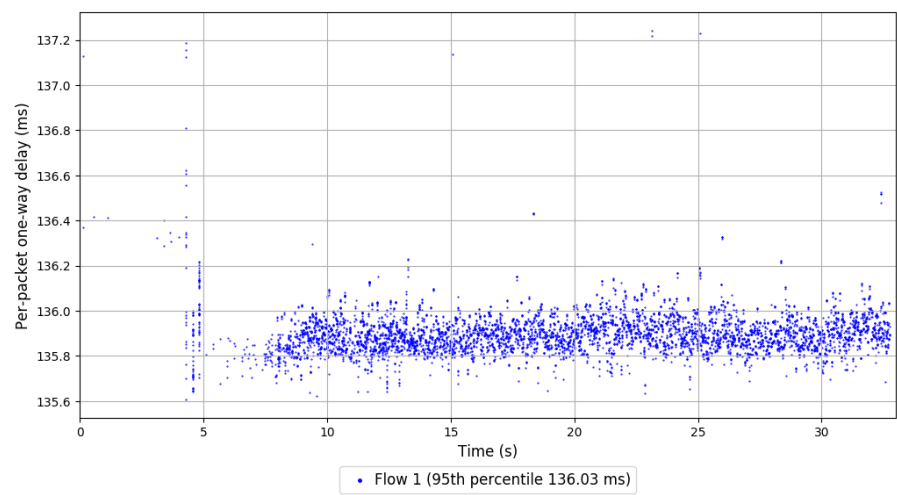
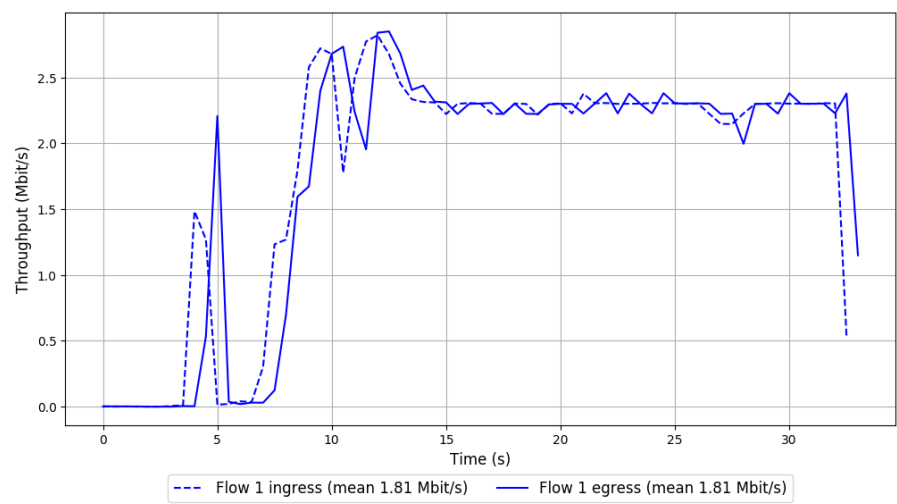


Run 7: Statistics of WebRTC media

Start at: 2018-06-19 08:02:08
End at: 2018-06-19 08:02:38
Local clock offset: -0.123 ms
Remote clock offset: -0.342 ms

Below is generated by plot.py at 2018-06-19 10:41:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.026 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

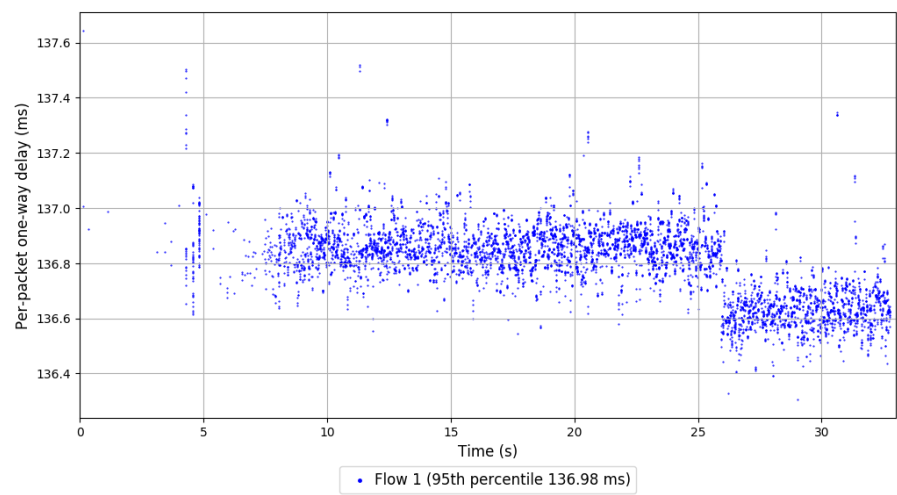
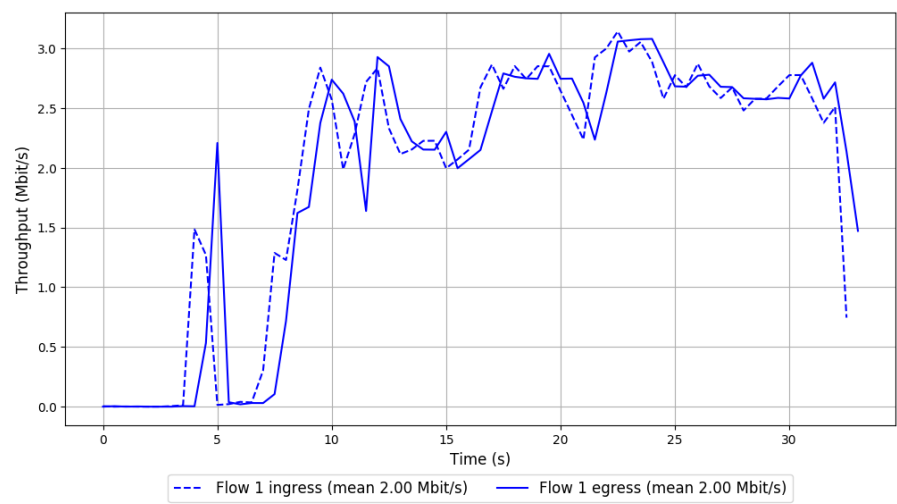


Run 8: Statistics of WebRTC media

Start at: 2018-06-19 08:23:16
End at: 2018-06-19 08:23:46
Local clock offset: 0.075 ms
Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-06-19 10:41:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 136.982 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 136.982 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

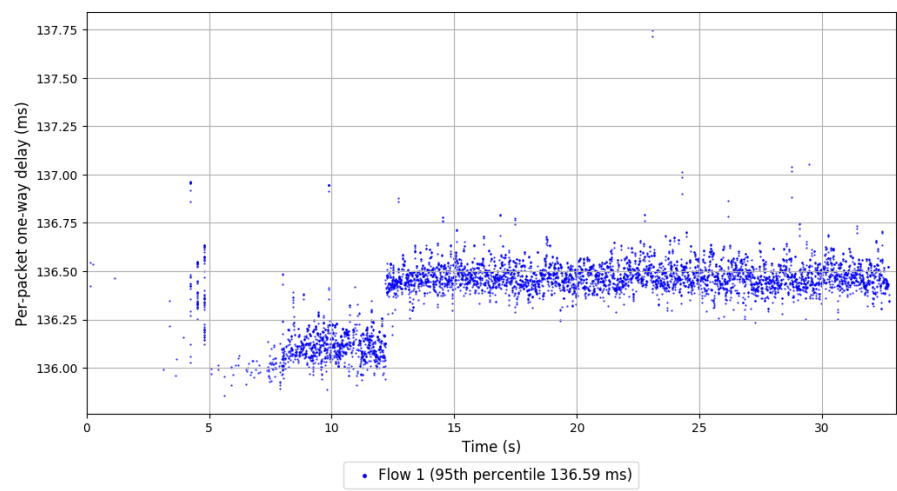
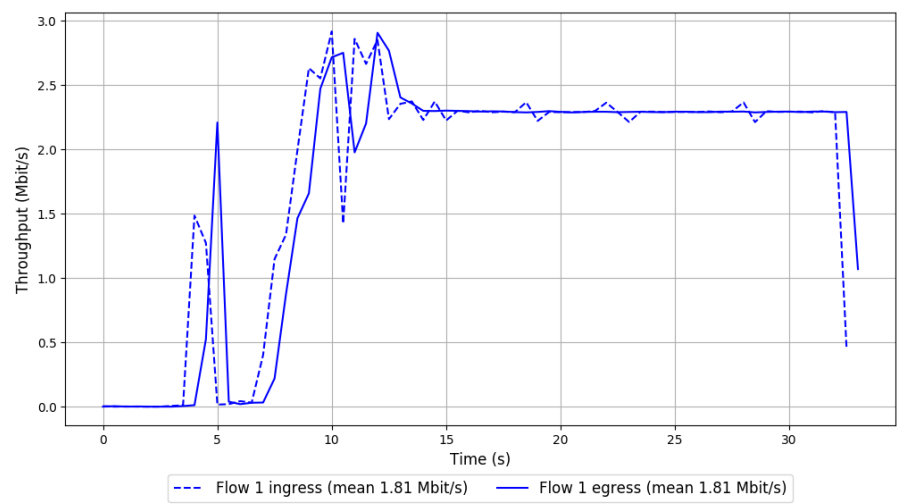


Run 9: Statistics of WebRTC media

Start at: 2018-06-19 08:44:50
End at: 2018-06-19 08:45:20
Local clock offset: 0.237 ms
Remote clock offset: -0.422 ms

Below is generated by plot.py at 2018-06-19 10:41:57
Datalink statistics
-- Total of 1 flow:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.587 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.81 Mbit/s
95th percentile per-packet one-way delay: 136.587 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-19 09:06:03

End at: 2018-06-19 09:06:33

Local clock offset: -0.452 ms

Remote clock offset: 0.317 ms

Below is generated by plot.py at 2018-06-19 10:41:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 137.558 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 1.83 Mbit/s

95th percentile per-packet one-way delay: 137.558 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

