

Pantheon Report

Generated at 2018-05-25 07:26:22 (UTC).

Data path: Stanford Ethernet (*remote*) → AWS California 1 Ethernet (*local*).

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

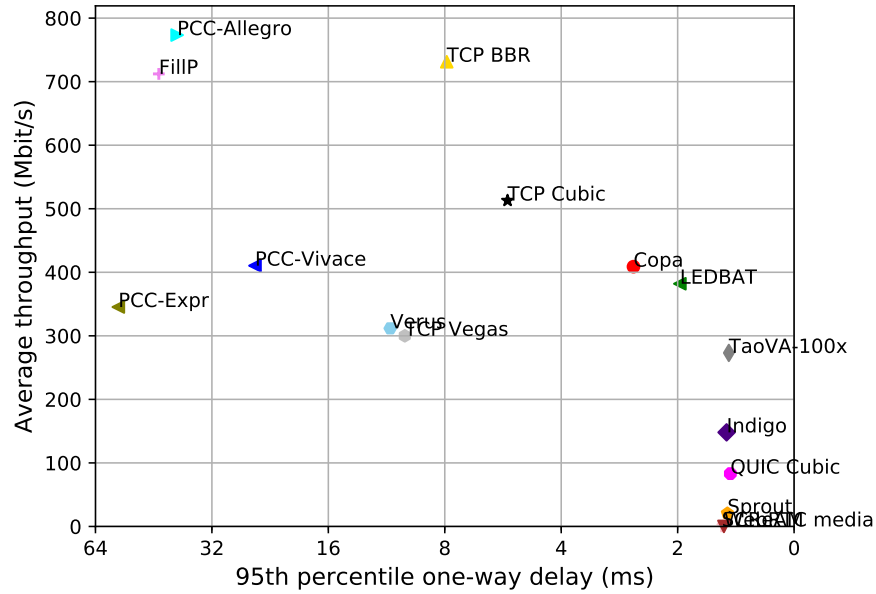
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

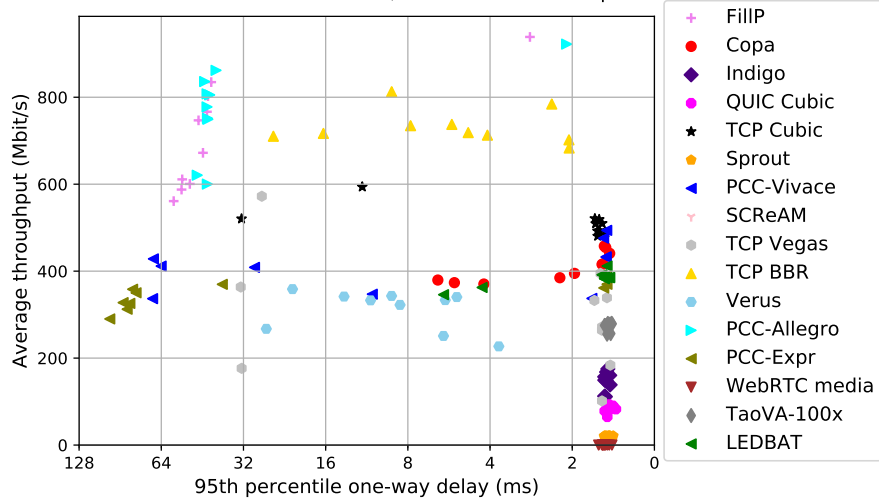
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
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
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from Stanford to AWS California 1, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Stanford to AWS California 1, 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	731.32	7.91	0.07
Copa	10	408.84	2.60	0.07
TCP Cubic	10	512.88	5.51	0.07
FillP	10	712.20	43.89	6.24
Indigo	10	148.06	1.16	0.08
LEDBAT	10	381.97	1.96	0.08
PCC-Allegro	10	773.29	39.35	3.92
PCC-Expr	10	345.33	55.86	2.48
QUIC Cubic	10	83.15	1.09	0.07
SCReAM	10	0.22	1.24	0.10
Sprout	10	20.81	1.15	0.07
TaoVA-100x	10	273.12	1.12	0.07
TCP Vegas	10	299.98	10.15	0.06
Verus	10	311.77	11.07	0.17
PCC-Vivace	10	410.41	24.76	0.72
WebRTC media	10	0.05	1.21	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 01:45:52

End at: 2018-05-25 01:46:22

Local clock offset: 1.656 ms

Remote clock offset: 0.67 ms

Below is generated by plot.py at 2018-05-25 05:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 784.37 Mbit/s

95th percentile per-packet one-way delay: 2.377 ms

Loss rate: 0.07%

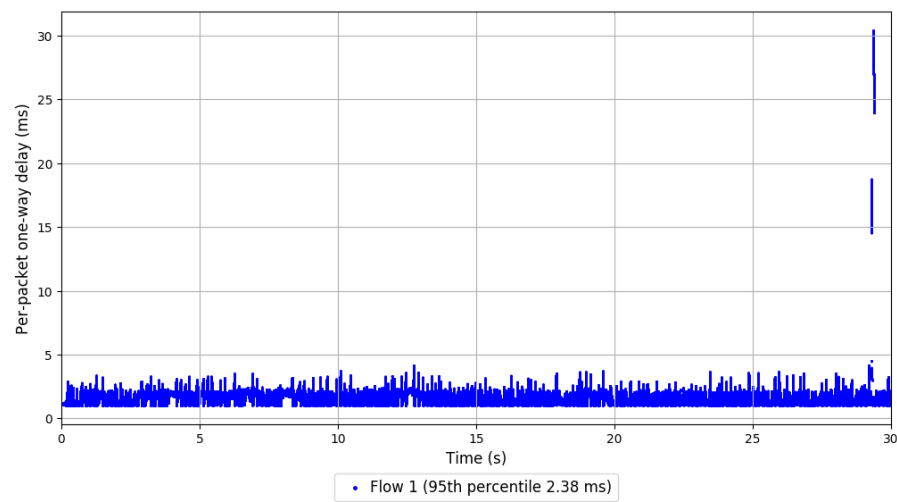
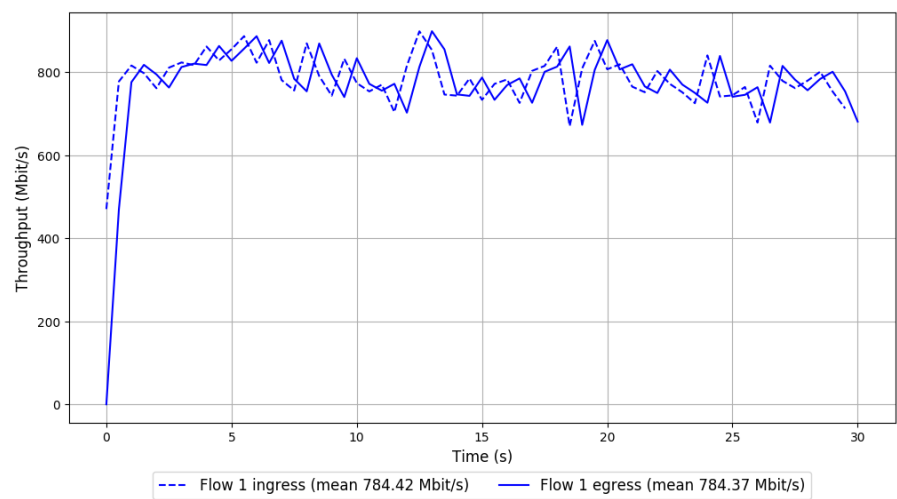
-- Flow 1:

Average throughput: 784.37 Mbit/s

95th percentile per-packet one-way delay: 2.377 ms

Loss rate: 0.07%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 02:10:20

End at: 2018-05-25 02:10:51

Local clock offset: 0.824 ms

Remote clock offset: 1.268 ms

Below is generated by plot.py at 2018-05-25 05:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 712.84 Mbit/s

95th percentile per-packet one-way delay: 4.089 ms

Loss rate: 0.08%

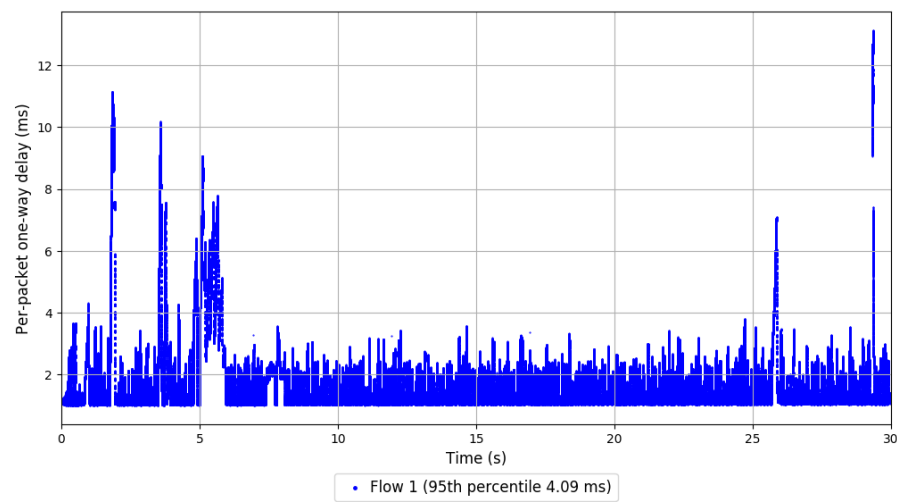
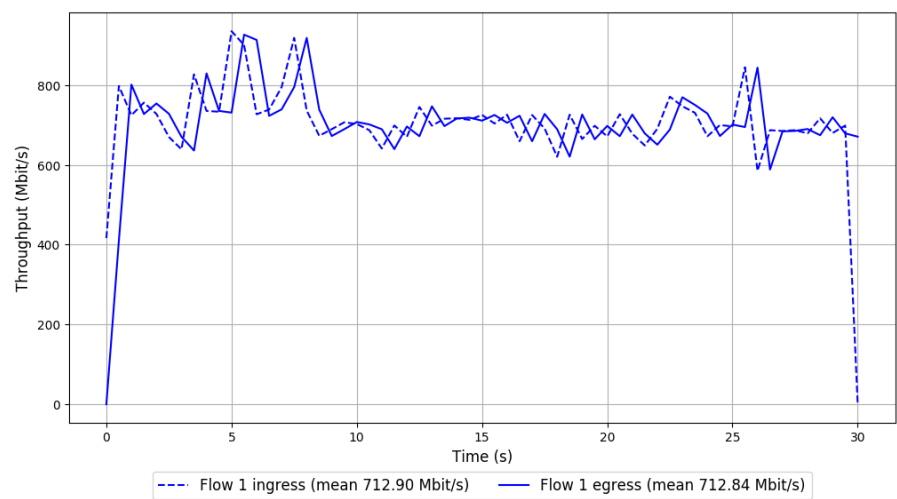
-- Flow 1:

Average throughput: 712.84 Mbit/s

95th percentile per-packet one-way delay: 4.089 ms

Loss rate: 0.08%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2018-05-25 02:35:17

End at: 2018-05-25 02:35:47

Local clock offset: 0.205 ms

Remote clock offset: 1.277 ms

Below is generated by plot.py at 2018-05-25 05:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 702.04 Mbit/s

95th percentile per-packet one-way delay: 2.056 ms

Loss rate: 0.07%

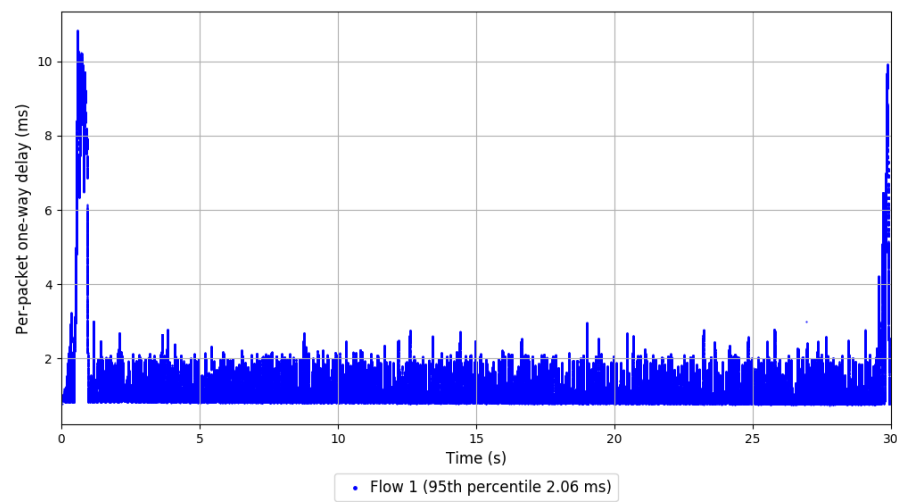
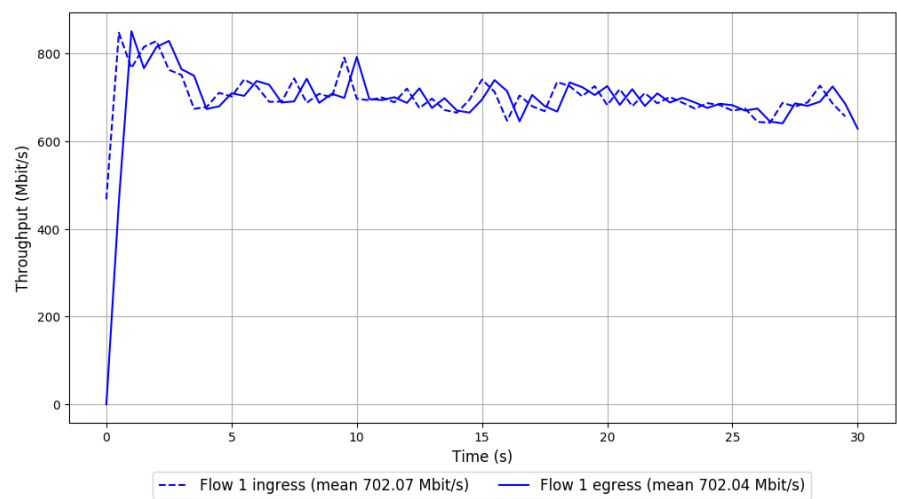
-- Flow 1:

Average throughput: 702.04 Mbit/s

95th percentile per-packet one-way delay: 2.056 ms

Loss rate: 0.07%

Run 3: Report of TCP BBR — Data Link

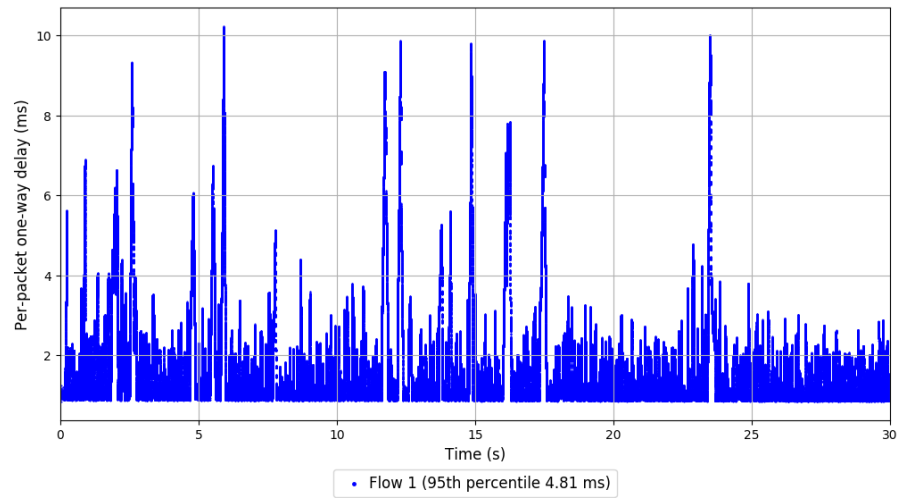
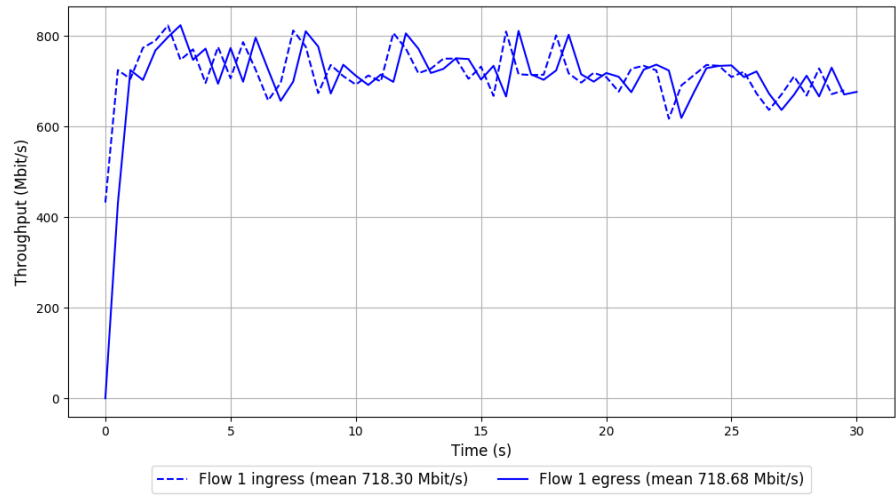


Run 4: Statistics of TCP BBR

Start at: 2018-05-25 02:59:31
End at: 2018-05-25 03:00:01
Local clock offset: -0.041 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-05-25 05:51:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 718.68 Mbit/s
95th percentile per-packet one-way delay: 4.808 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 718.68 Mbit/s
95th percentile per-packet one-way delay: 4.808 ms
Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 03:23:53

End at: 2018-05-25 03:24:23

Local clock offset: 0.334 ms

Remote clock offset: -0.033 ms

Below is generated by plot.py at 2018-05-25 05:51:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 737.56 Mbit/s

95th percentile per-packet one-way delay: 5.521 ms

Loss rate: 0.07%

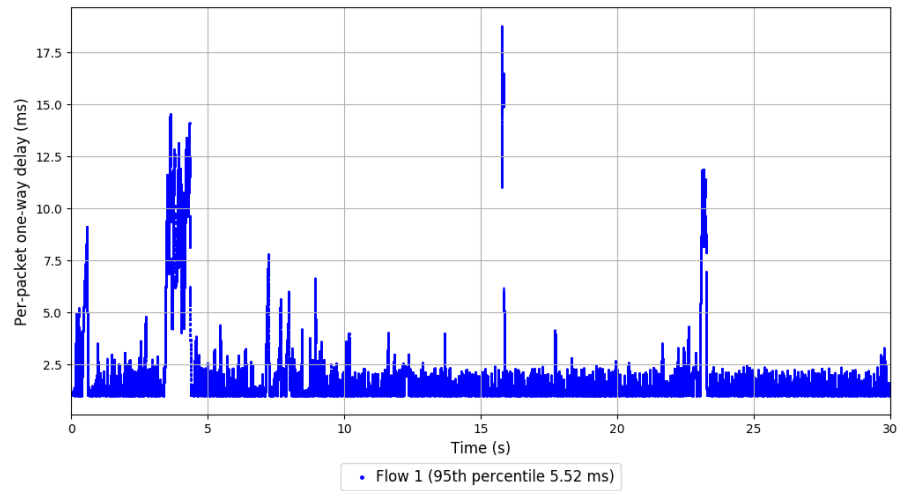
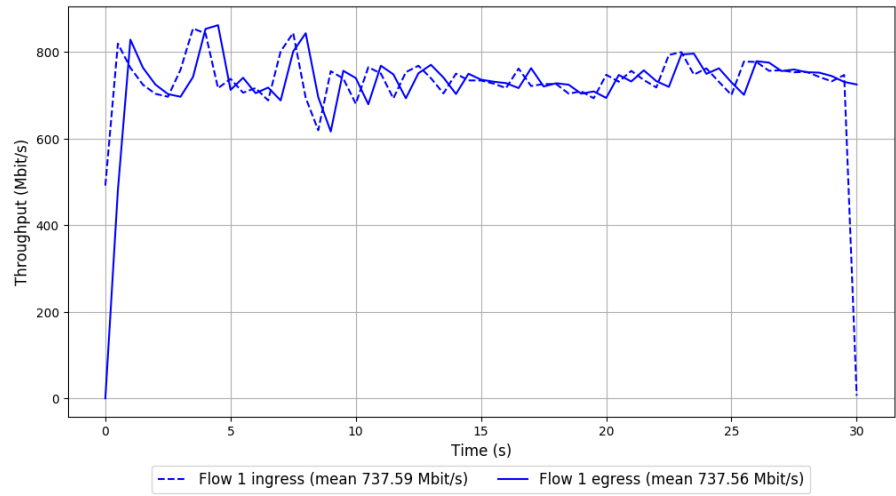
-- Flow 1:

Average throughput: 737.56 Mbit/s

95th percentile per-packet one-way delay: 5.521 ms

Loss rate: 0.07%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 03:48:31

End at: 2018-05-25 03:49:01

Local clock offset: 0.321 ms

Remote clock offset: 0.001 ms

Below is generated by plot.py at 2018-05-25 05:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 812.77 Mbit/s

95th percentile per-packet one-way delay: 9.171 ms

Loss rate: 0.08%

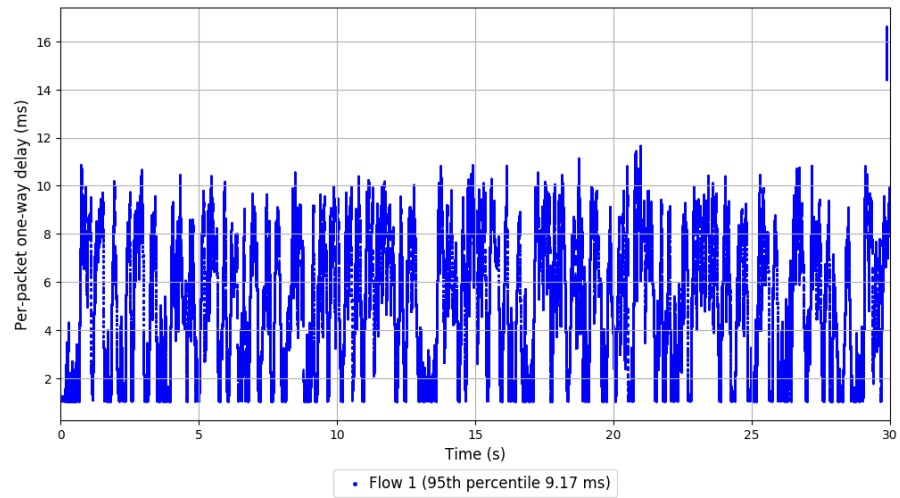
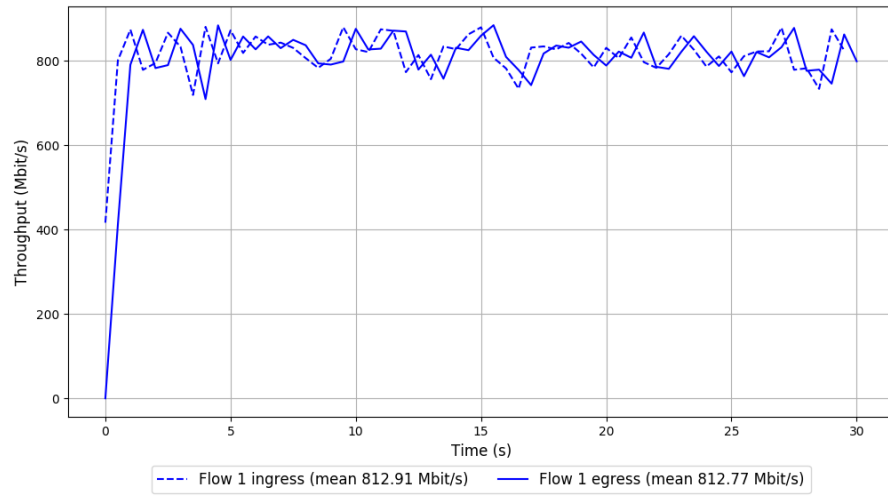
-- Flow 1:

Average throughput: 812.77 Mbit/s

95th percentile per-packet one-way delay: 9.171 ms

Loss rate: 0.08%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 04:13:10

End at: 2018-05-25 04:13:40

Local clock offset: 0.324 ms

Remote clock offset: 0.241 ms

Below is generated by plot.py at 2018-05-25 05:51:59

Datalink statistics

-- Total of 1 flow:

Average throughput: 710.30 Mbit/s

95th percentile per-packet one-way delay: 24.867 ms

Loss rate: 0.11%

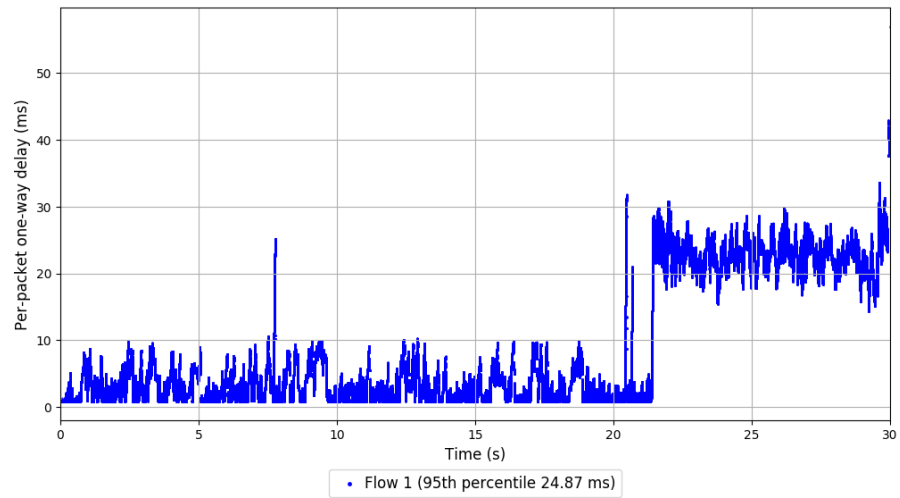
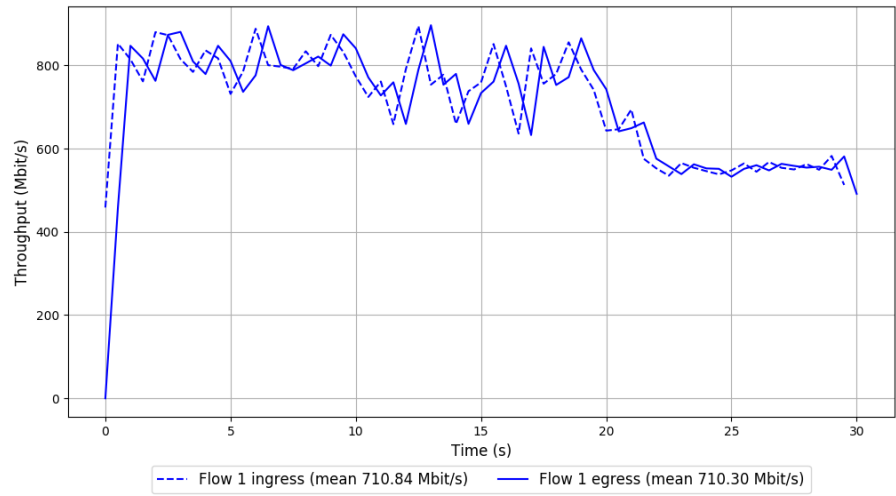
-- Flow 1:

Average throughput: 710.30 Mbit/s

95th percentile per-packet one-way delay: 24.867 ms

Loss rate: 0.11%

Run 7: Report of TCP BBR — Data Link

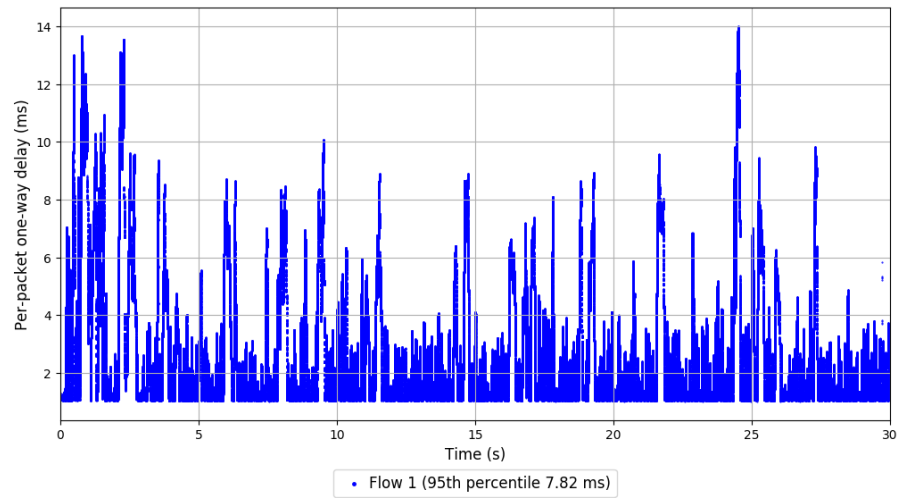
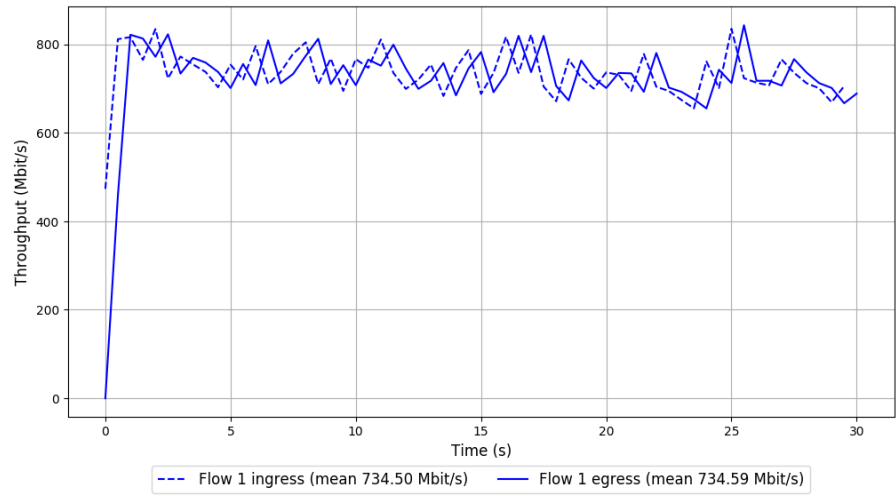


Run 8: Statistics of TCP BBR

Start at: 2018-05-25 04:37:31
End at: 2018-05-25 04:38:01
Local clock offset: 0.344 ms
Remote clock offset: -0.134 ms

Below is generated by plot.py at 2018-05-25 05:51:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 734.59 Mbit/s
95th percentile per-packet one-way delay: 7.820 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 734.59 Mbit/s
95th percentile per-packet one-way delay: 7.820 ms
Loss rate: 0.05%

Run 8: Report of TCP BBR — Data Link

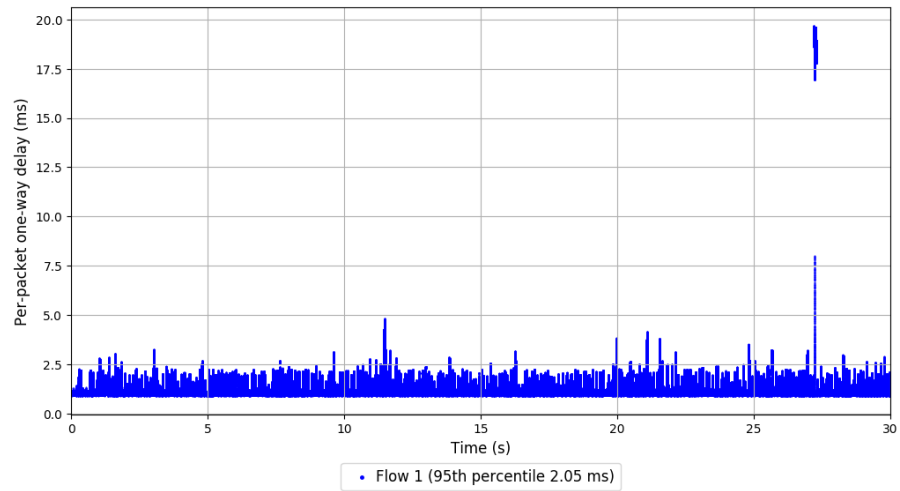
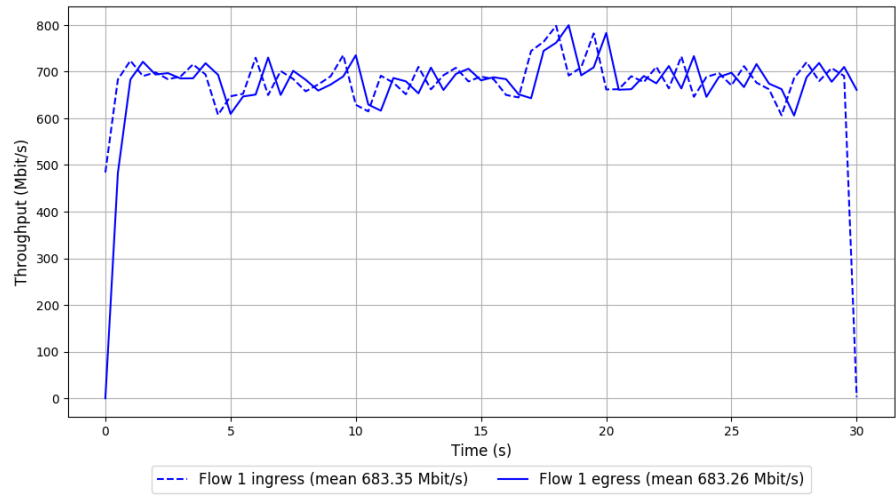


Run 9: Statistics of TCP BBR

Start at: 2018-05-25 05:02:01
End at: 2018-05-25 05:02:31
Local clock offset: 0.223 ms
Remote clock offset: -0.196 ms

Below is generated by plot.py at 2018-05-25 05:59:31
Datalink statistics
-- Total of 1 flow:
Average throughput: 683.26 Mbit/s
95th percentile per-packet one-way delay: 2.052 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 683.26 Mbit/s
95th percentile per-packet one-way delay: 2.052 ms
Loss rate: 0.08%

Run 9: Report of TCP BBR — Data Link

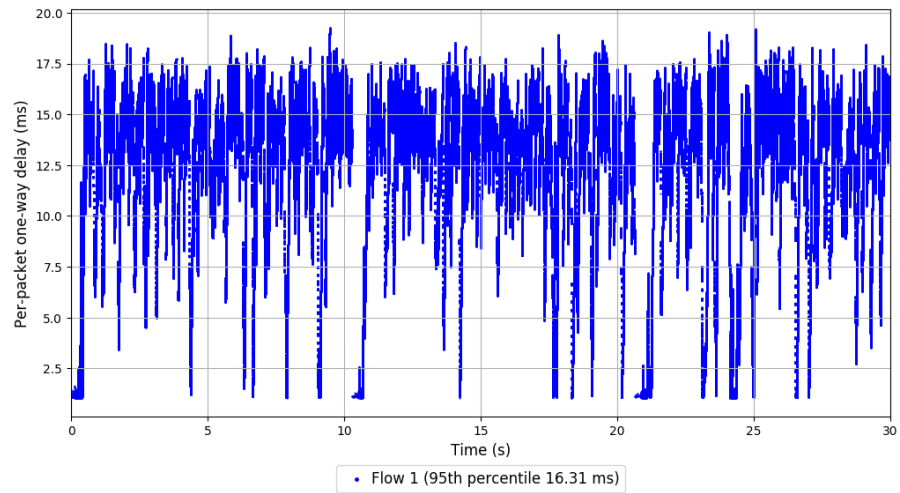
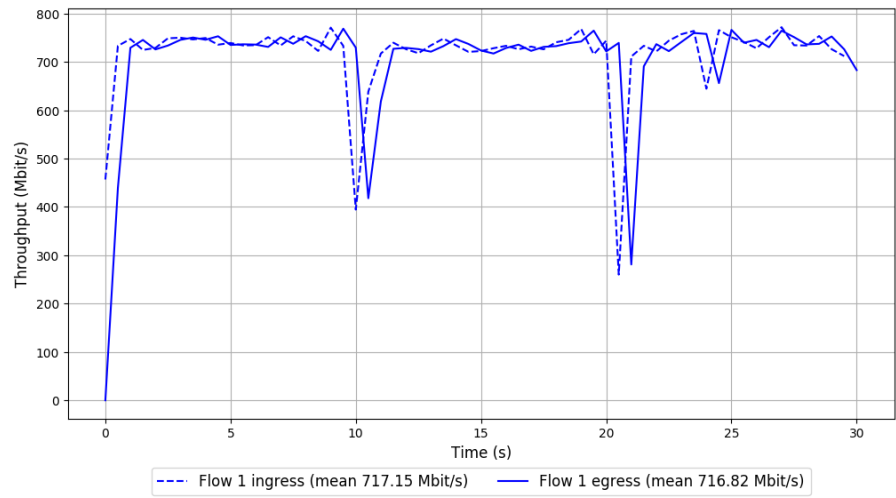


Run 10: Statistics of TCP BBR

Start at: 2018-05-25 05:26:10
End at: 2018-05-25 05:26:40
Local clock offset: 0.365 ms
Remote clock offset: -0.228 ms

Below is generated by plot.py at 2018-05-25 06:00:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 716.82 Mbit/s
95th percentile per-packet one-way delay: 16.307 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 716.82 Mbit/s
95th percentile per-packet one-way delay: 16.307 ms
Loss rate: 0.11%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-25 01:32:02

End at: 2018-05-25 01:32:32

Local clock offset: 1.433 ms

Remote clock offset: 0.359 ms

Below is generated by plot.py at 2018-05-25 06:01:02

Datalink statistics

-- Total of 1 flow:

Average throughput: 440.92 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.07%

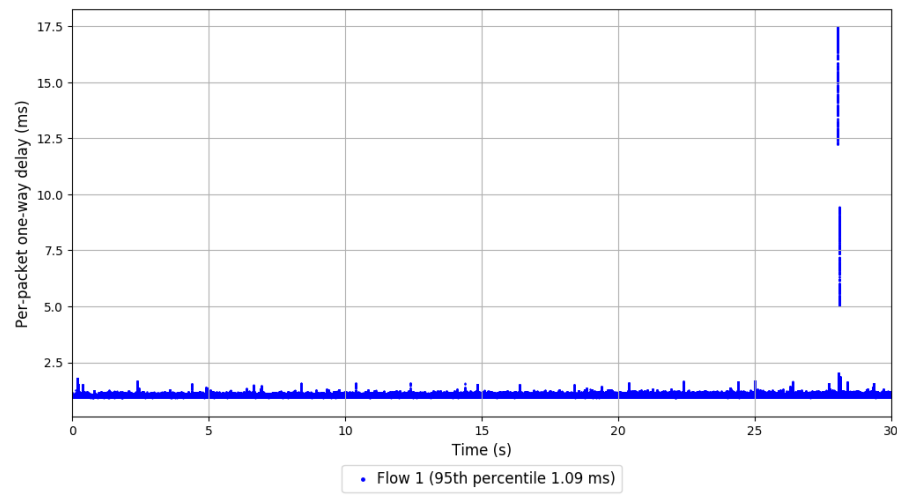
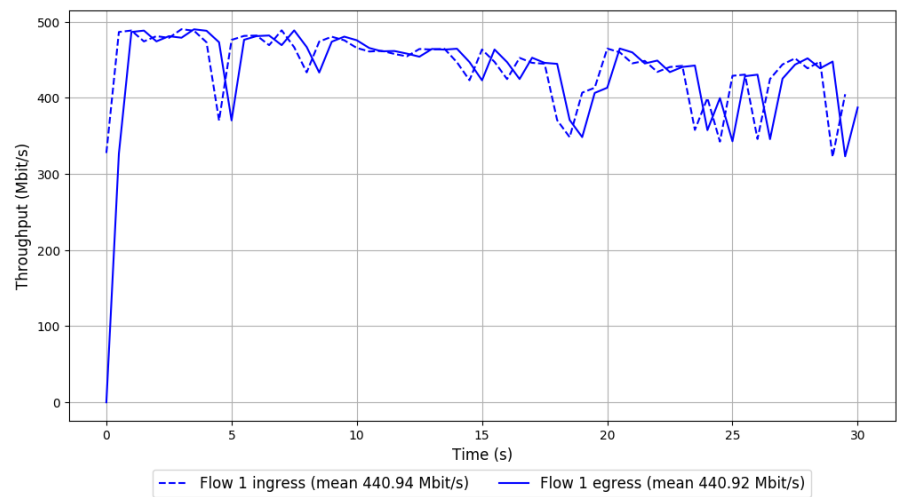
-- Flow 1:

Average throughput: 440.92 Mbit/s

95th percentile per-packet one-way delay: 1.089 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 01:56:38

End at: 2018-05-25 01:57:08

Local clock offset: 1.783 ms

Remote clock offset: 0.935 ms

Below is generated by plot.py at 2018-05-25 06:01:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 457.76 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.07%

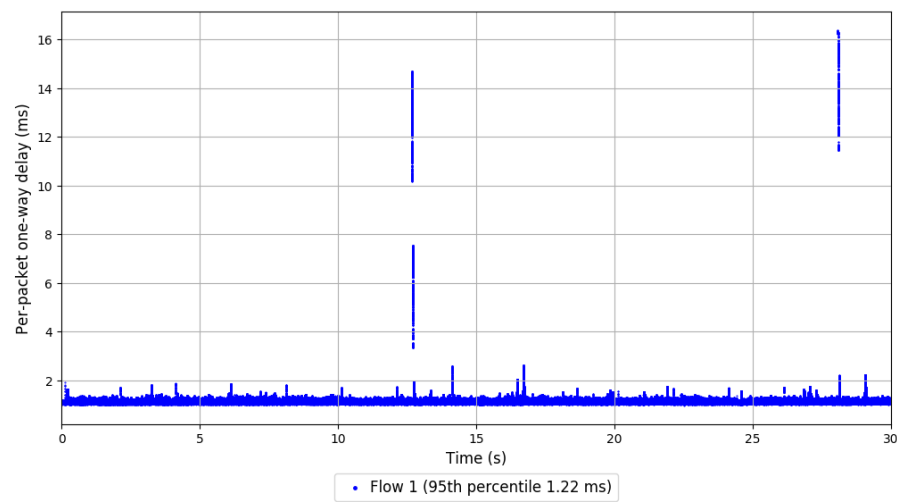
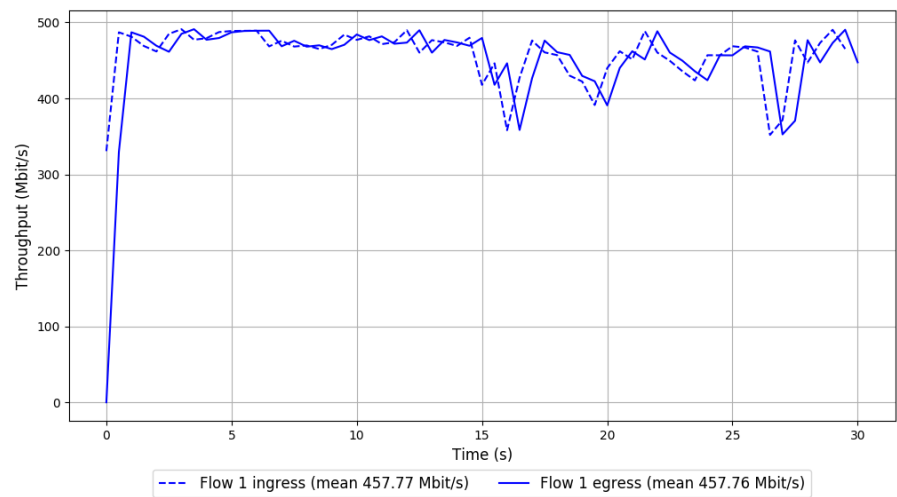
-- Flow 1:

Average throughput: 457.76 Mbit/s

95th percentile per-packet one-way delay: 1.219 ms

Loss rate: 0.07%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-05-25 02:21:17

End at: 2018-05-25 02:21:47

Local clock offset: 0.492 ms

Remote clock offset: 1.456 ms

Below is generated by plot.py at 2018-05-25 06:01:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 370.39 Mbit/s

95th percentile per-packet one-way delay: 4.214 ms

Loss rate: 0.07%

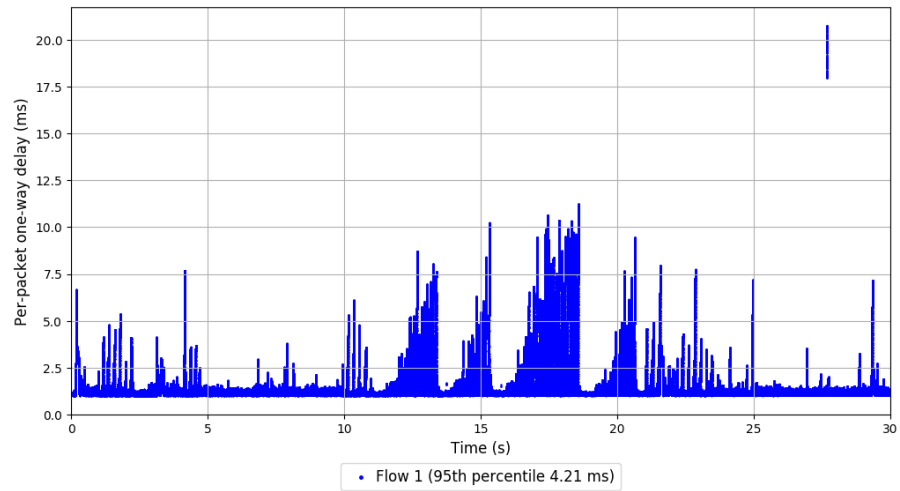
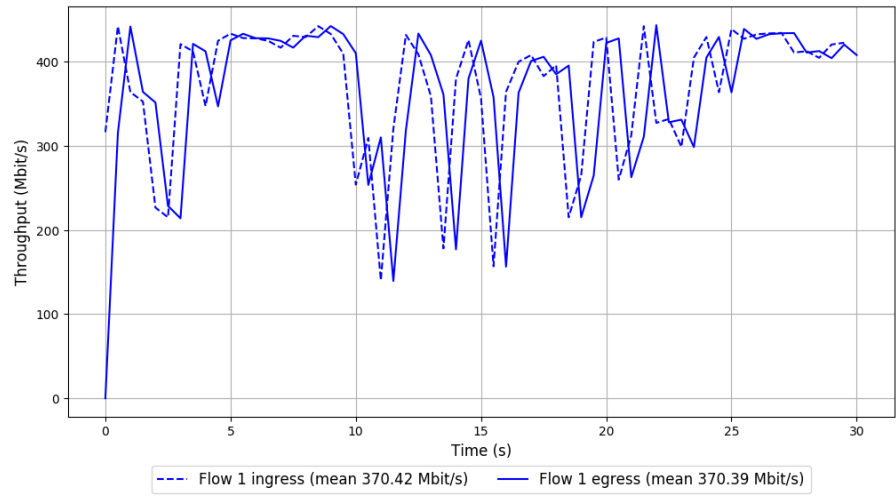
-- Flow 1:

Average throughput: 370.39 Mbit/s

95th percentile per-packet one-way delay: 4.214 ms

Loss rate: 0.07%

Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 02:45:54

End at: 2018-05-25 02:46:24

Local clock offset: 0.164 ms

Remote clock offset: 0.233 ms

Below is generated by plot.py at 2018-05-25 06:01:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 454.36 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.07%

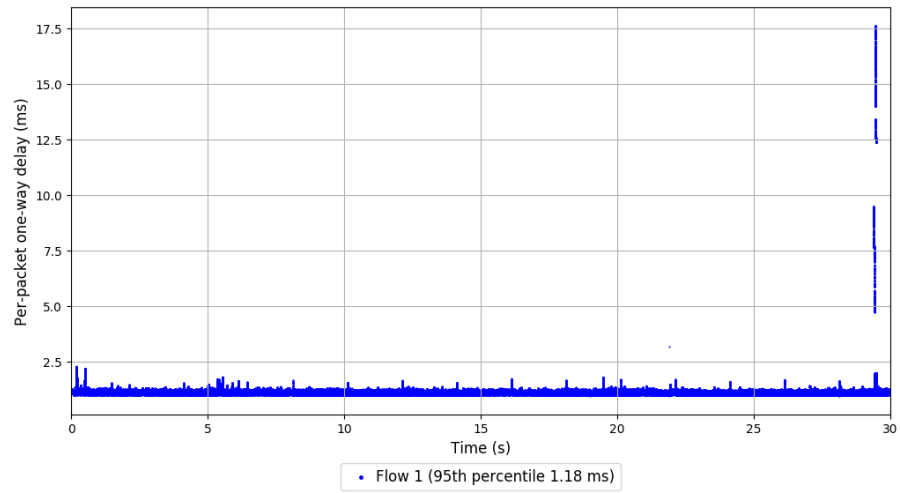
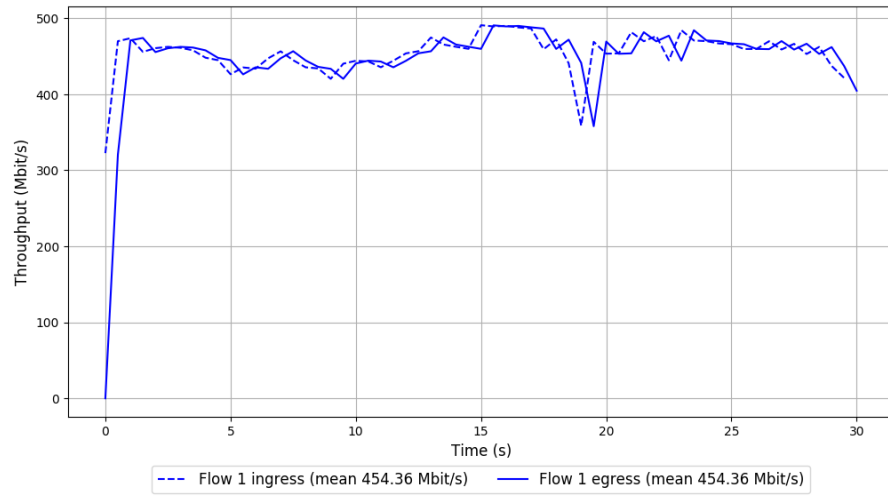
-- Flow 1:

Average throughput: 454.36 Mbit/s

95th percentile per-packet one-way delay: 1.184 ms

Loss rate: 0.07%

Run 4: Report of Copa — Data Link

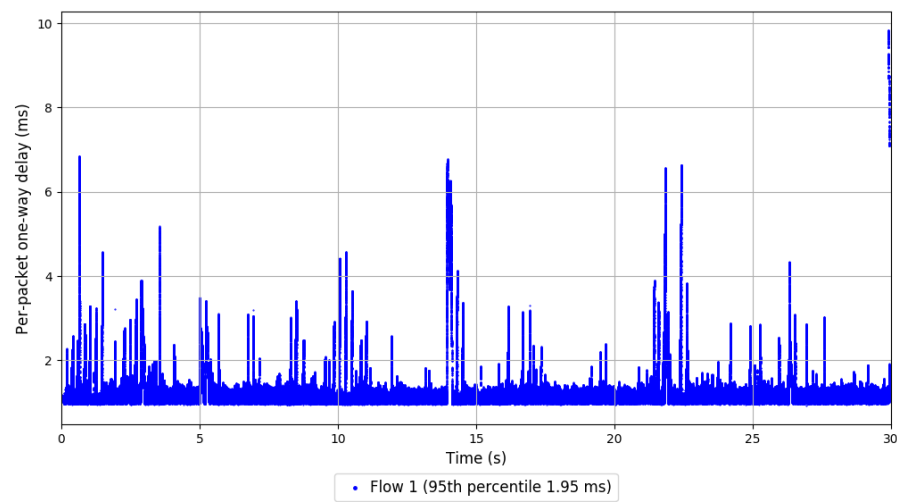
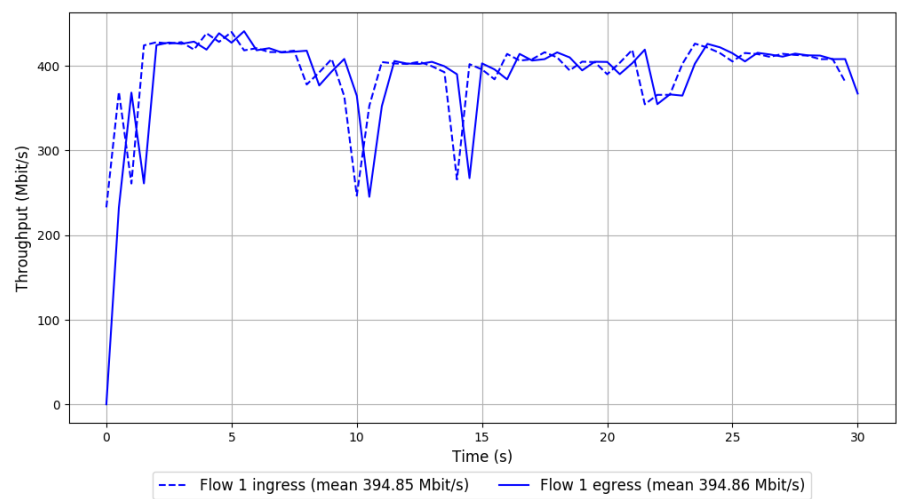


Run 5: Statistics of Copa

Start at: 2018-05-25 03:10:15
End at: 2018-05-25 03:10:45
Local clock offset: 0.291 ms
Remote clock offset: -0.162 ms

Below is generated by plot.py at 2018-05-25 06:01:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 394.86 Mbit/s
95th percentile per-packet one-way delay: 1.945 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 394.86 Mbit/s
95th percentile per-packet one-way delay: 1.945 ms
Loss rate: 0.06%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-25 03:34:38

End at: 2018-05-25 03:35:08

Local clock offset: 0.335 ms

Remote clock offset: 0.011 ms

Below is generated by plot.py at 2018-05-25 06:01:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 416.52 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.07%

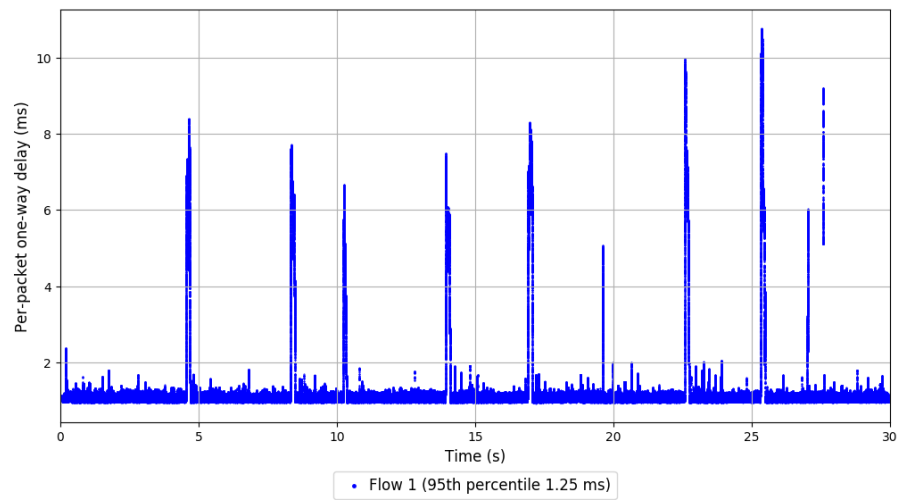
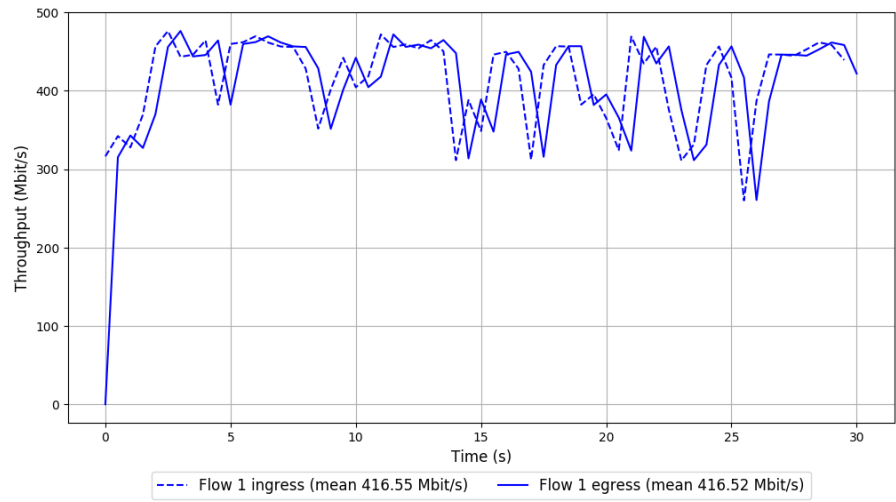
-- Flow 1:

Average throughput: 416.52 Mbit/s

95th percentile per-packet one-way delay: 1.253 ms

Loss rate: 0.07%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 03:59:15

End at: 2018-05-25 03:59:45

Local clock offset: 0.305 ms

Remote clock offset: 0.056 ms

Below is generated by plot.py at 2018-05-25 06:08:32

Datalink statistics

-- Total of 1 flow:

Average throughput: 379.56 Mbit/s

95th percentile per-packet one-way delay: 6.212 ms

Loss rate: 0.08%

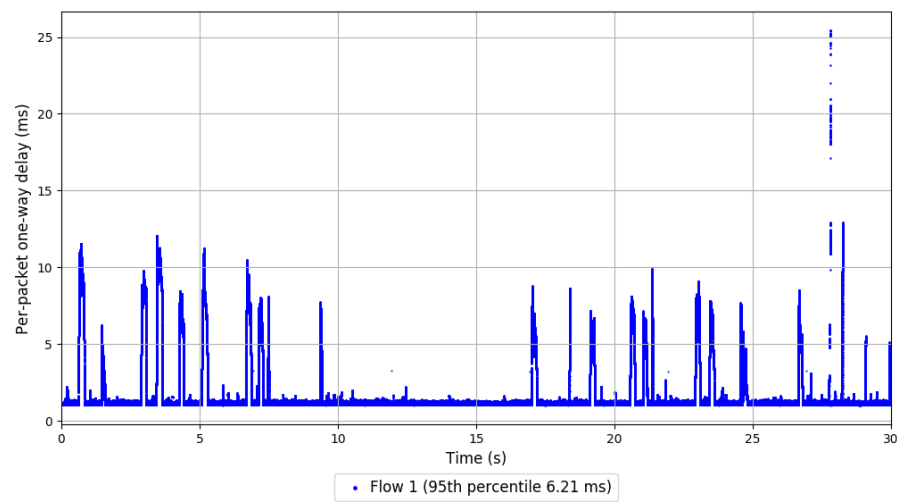
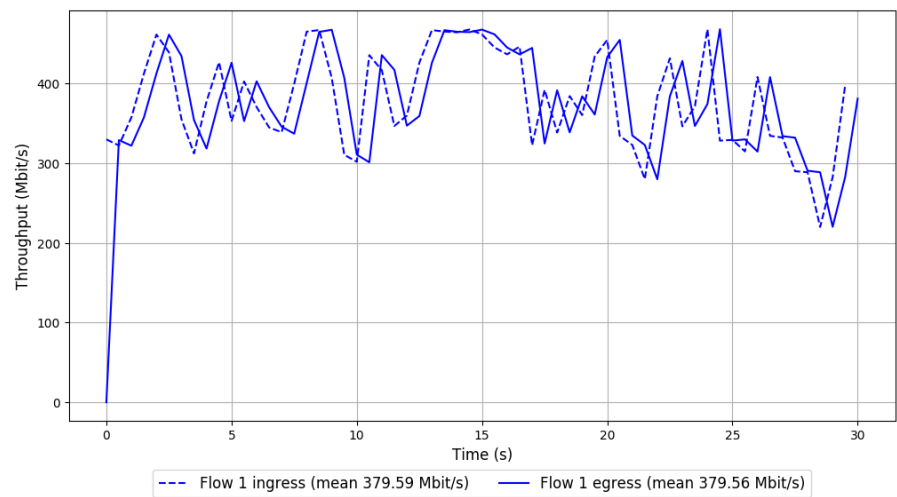
-- Flow 1:

Average throughput: 379.56 Mbit/s

95th percentile per-packet one-way delay: 6.212 ms

Loss rate: 0.08%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 04:23:51

End at: 2018-05-25 04:24:21

Local clock offset: 0.411 ms

Remote clock offset: 0.048 ms

Below is generated by plot.py at 2018-05-25 06:08:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 384.85 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.07%

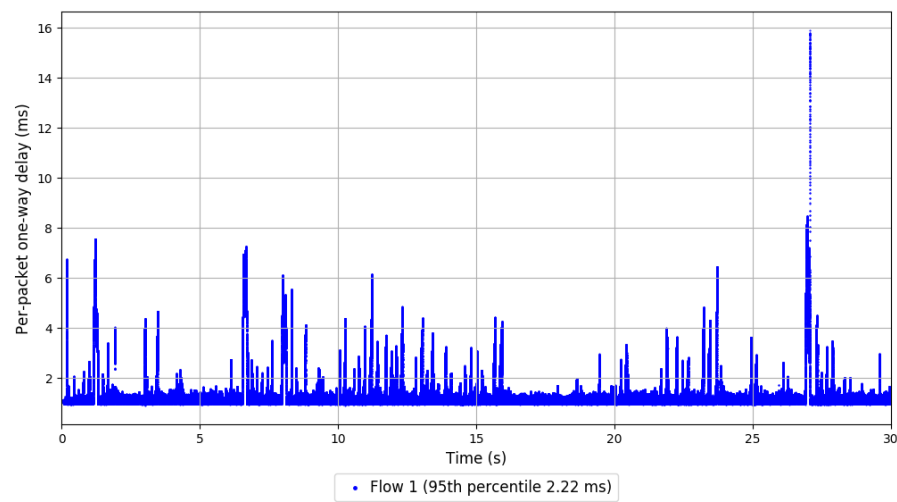
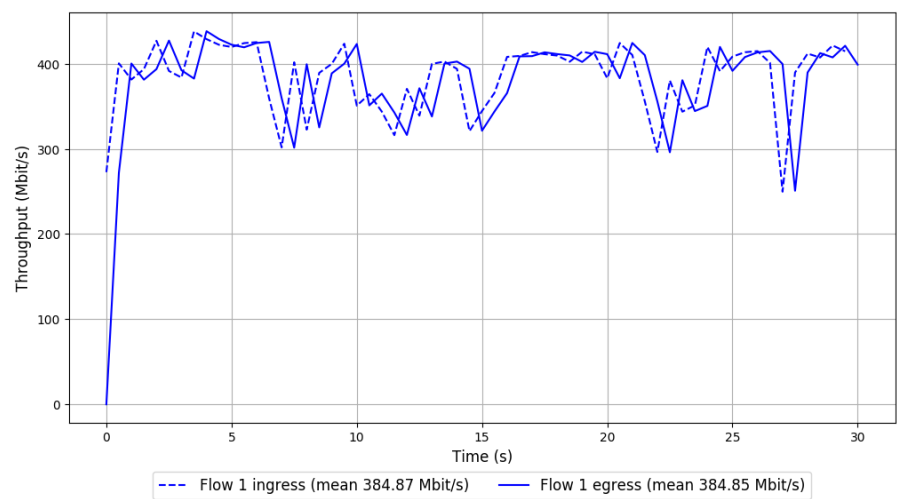
-- Flow 1:

Average throughput: 384.85 Mbit/s

95th percentile per-packet one-way delay: 2.220 ms

Loss rate: 0.07%

Run 8: Report of Copa — Data Link

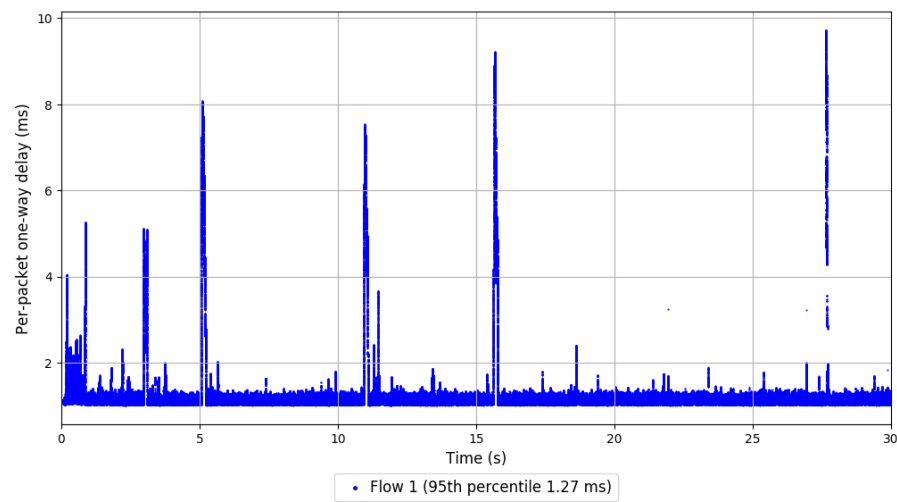
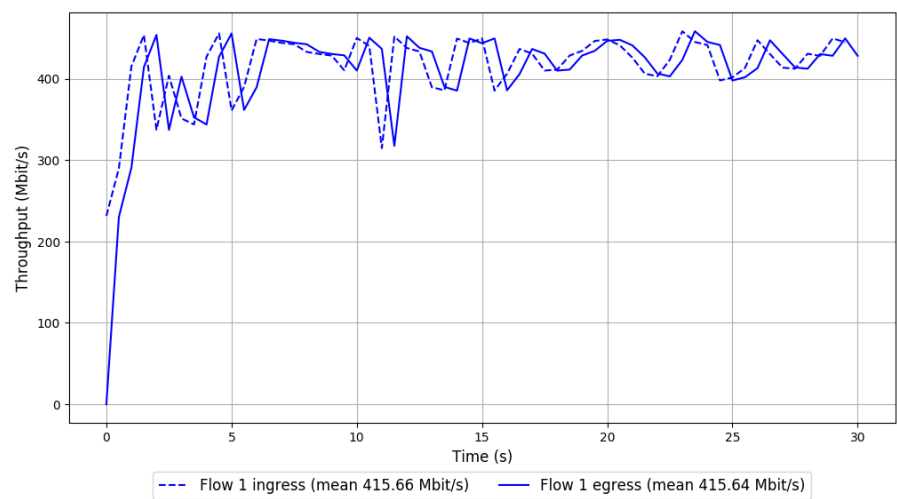


Run 9: Statistics of Copa

Start at: 2018-05-25 04:48:05
End at: 2018-05-25 04:48:35
Local clock offset: 0.306 ms
Remote clock offset: -0.154 ms

Below is generated by plot.py at 2018-05-25 06:09:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 415.64 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 415.64 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.07%

Run 9: Report of Copa — Data Link

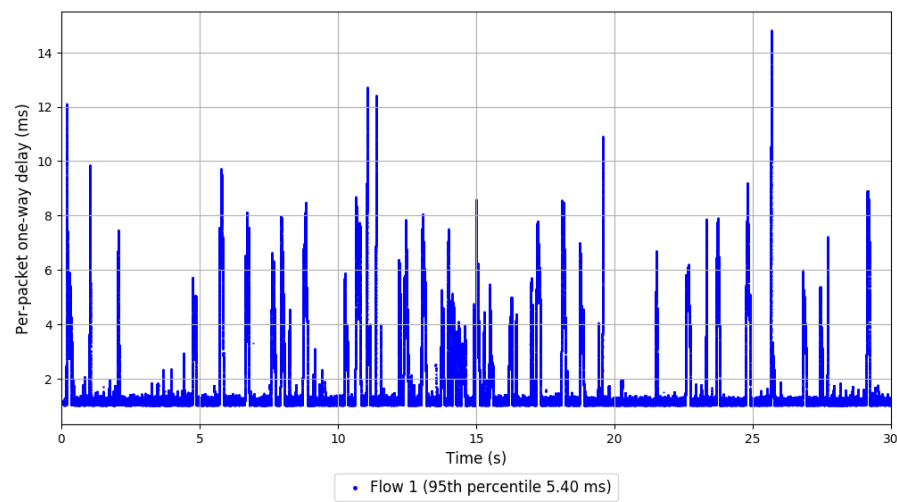
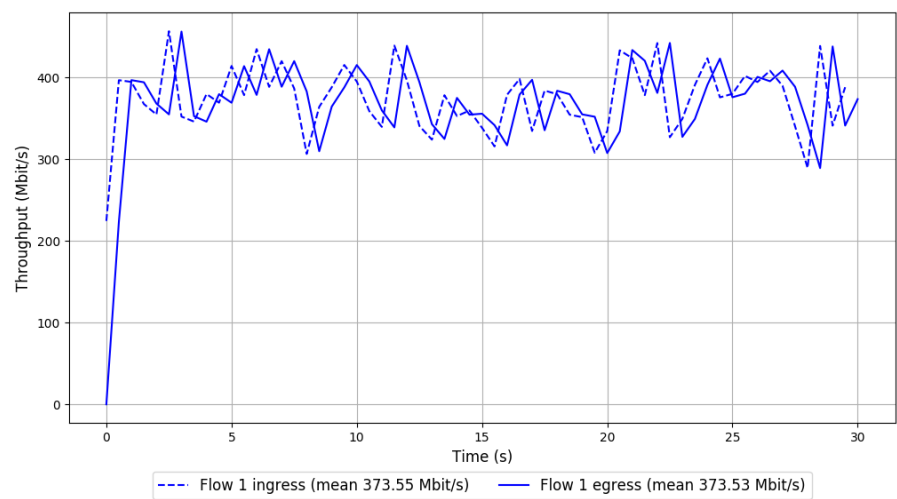


Run 10: Statistics of Copa

Start at: 2018-05-25 05:12:39
End at: 2018-05-25 05:13:09
Local clock offset: 0.362 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-25 06:09:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 373.53 Mbit/s
95th percentile per-packet one-way delay: 5.403 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 373.53 Mbit/s
95th percentile per-packet one-way delay: 5.403 ms
Loss rate: 0.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 01:29:05

End at: 2018-05-25 01:29:35

Local clock offset: 1.475 ms

Remote clock offset: 0.318 ms

Below is generated by plot.py at 2018-05-25 06:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 520.90 Mbit/s

95th percentile per-packet one-way delay: 1.449 ms

Loss rate: 0.06%

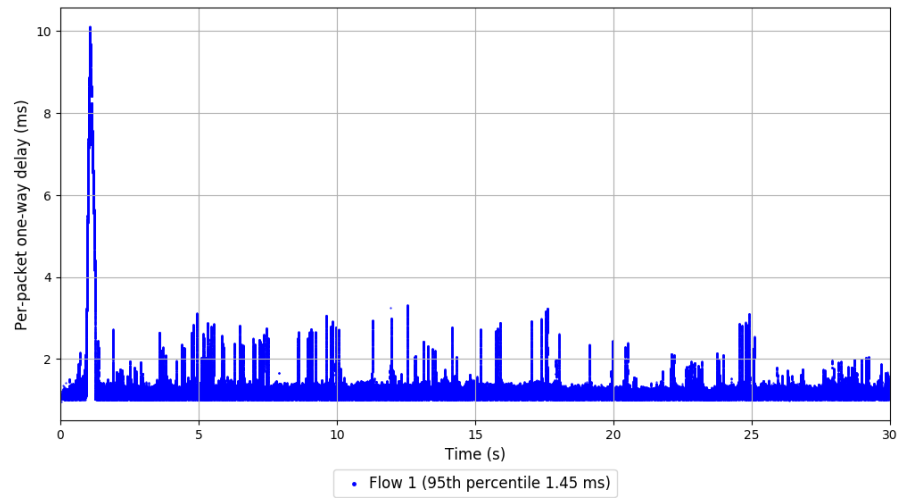
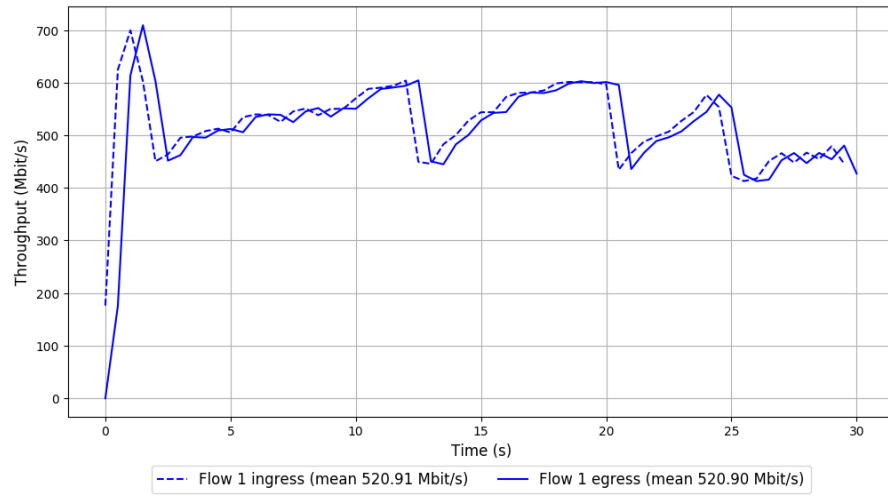
-- Flow 1:

Average throughput: 520.90 Mbit/s

95th percentile per-packet one-way delay: 1.449 ms

Loss rate: 0.06%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 01:53:32

End at: 2018-05-25 01:54:02

Local clock offset: 1.727 ms

Remote clock offset: 0.827 ms

Below is generated by plot.py at 2018-05-25 06:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 593.98 Mbit/s

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 0.06%

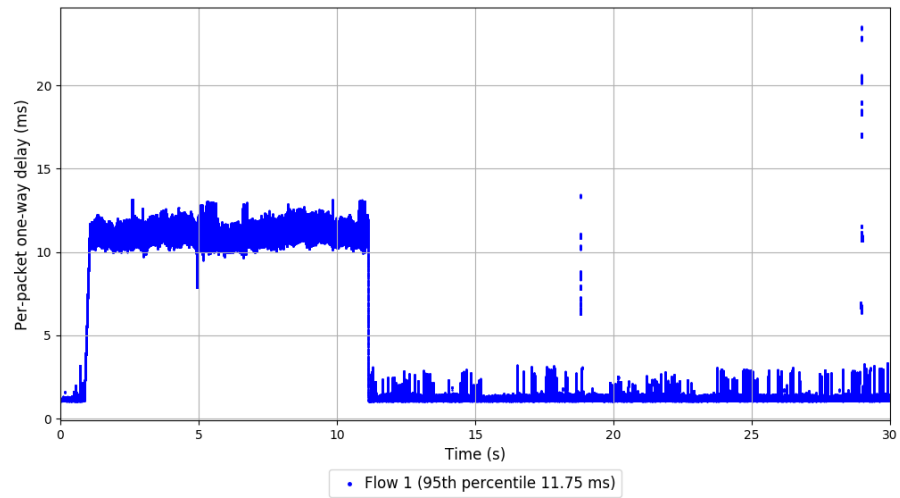
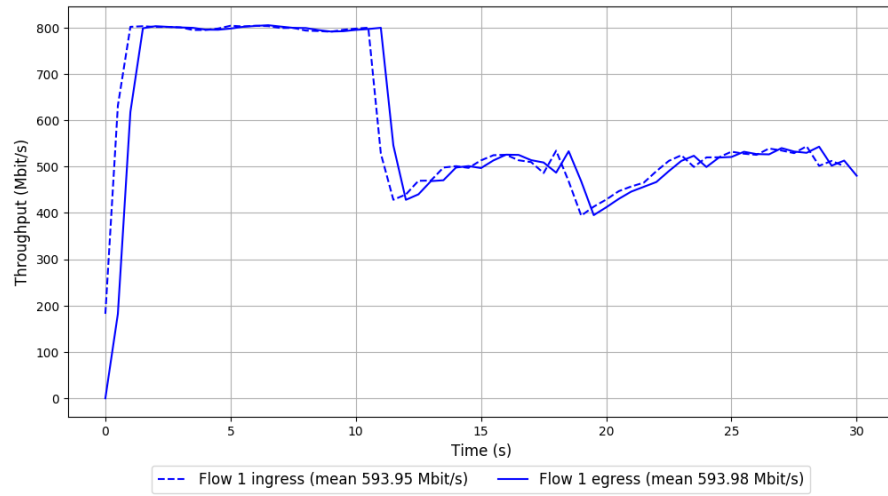
-- Flow 1:

Average throughput: 593.98 Mbit/s

95th percentile per-packet one-way delay: 11.750 ms

Loss rate: 0.06%

Run 2: Report of TCP Cubic — Data Link



Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 02:18:13

End at: 2018-05-25 02:18:43

Local clock offset: 0.572 ms

Remote clock offset: 1.446 ms

Below is generated by plot.py at 2018-05-25 06:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.25 Mbit/s

95th percentile per-packet one-way delay: 1.337 ms

Loss rate: 0.06%

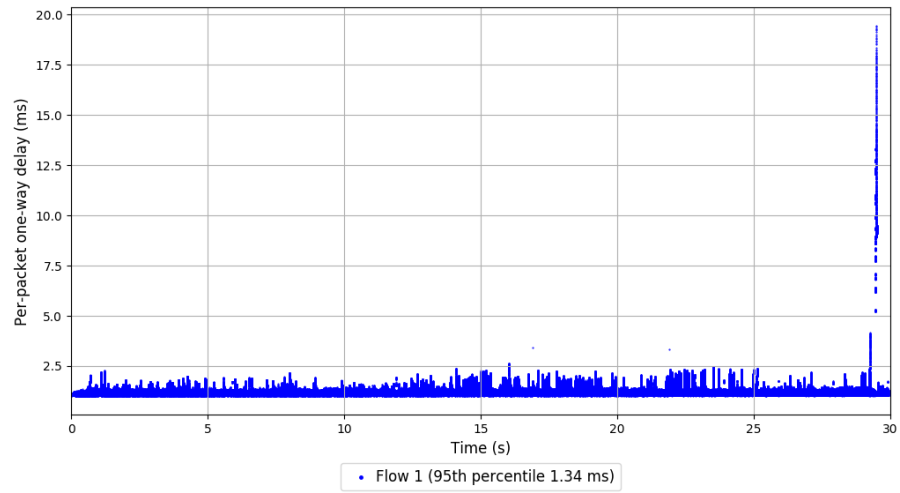
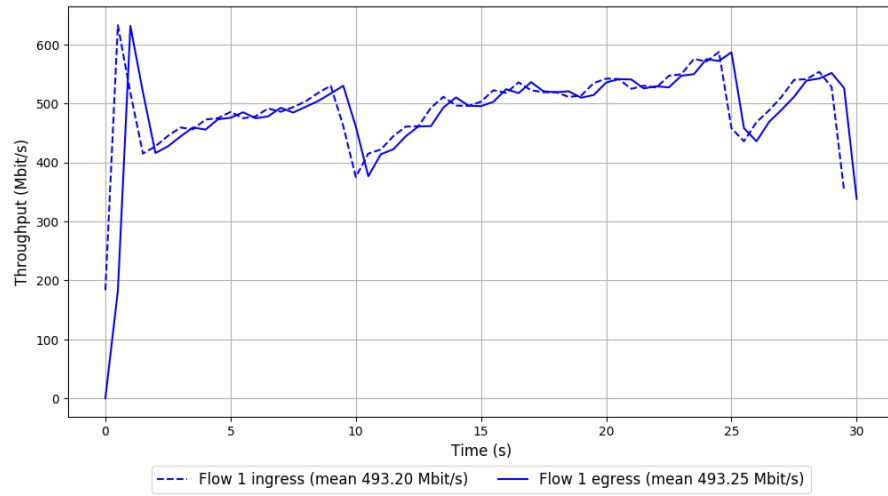
-- Flow 1:

Average throughput: 493.25 Mbit/s

95th percentile per-packet one-way delay: 1.337 ms

Loss rate: 0.06%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 02:42:56

End at: 2018-05-25 02:43:26

Local clock offset: 0.121 ms

Remote clock offset: 0.415 ms

Below is generated by plot.py at 2018-05-25 06:09:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 488.89 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.07%

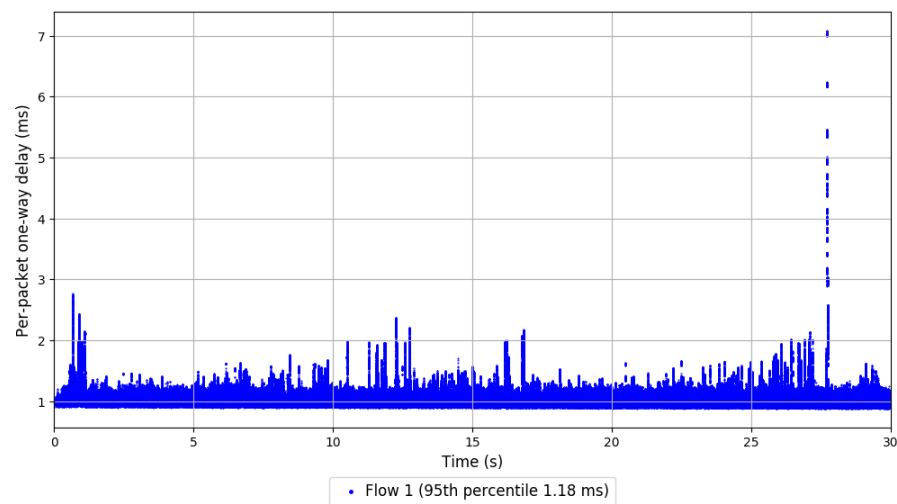
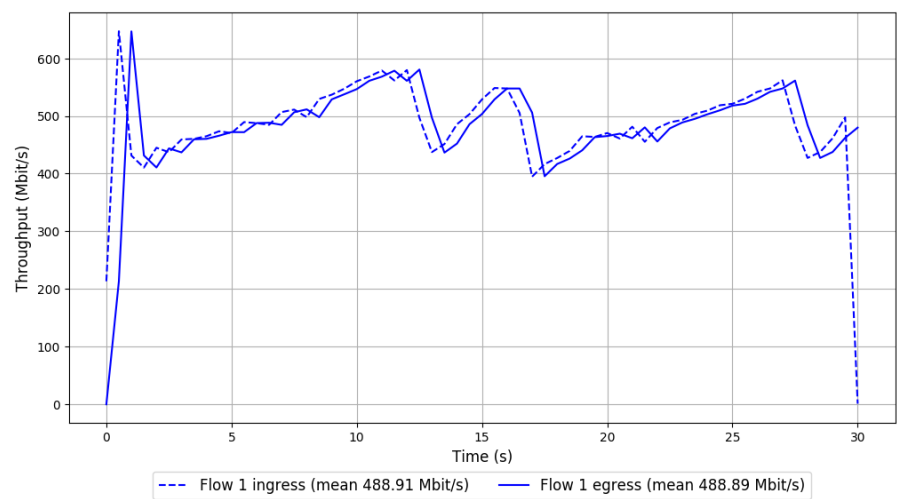
-- Flow 1:

Average throughput: 488.89 Mbit/s

95th percentile per-packet one-way delay: 1.181 ms

Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link

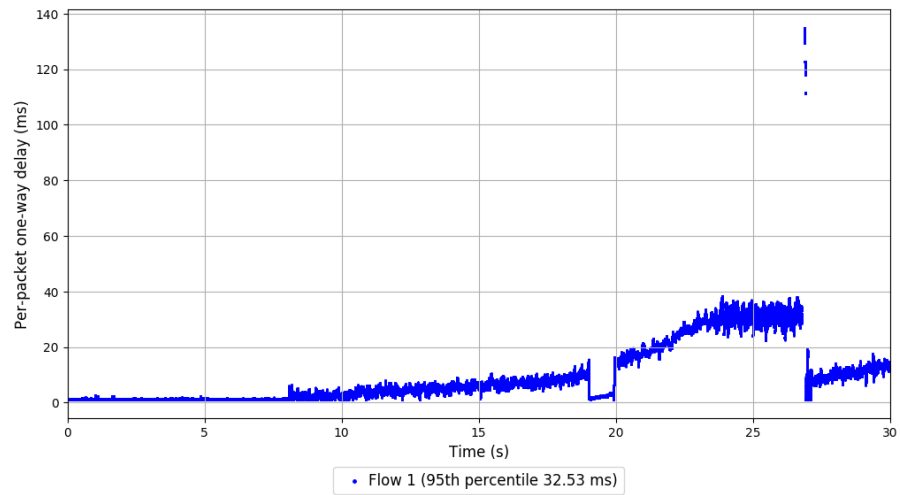
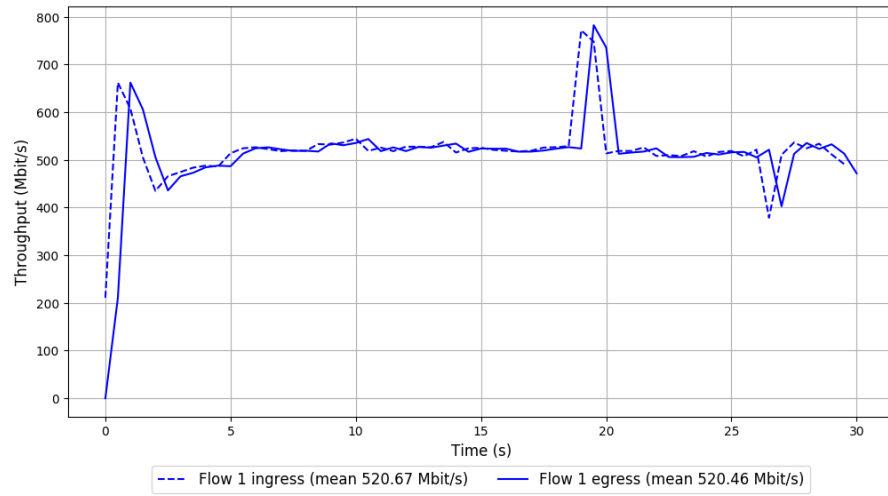


Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 03:07:18
End at: 2018-05-25 03:07:48
Local clock offset: 0.268 ms
Remote clock offset: -0.277 ms

Below is generated by plot.py at 2018-05-25 06:14:11
Datalink statistics
-- Total of 1 flow:
Average throughput: 520.46 Mbit/s
95th percentile per-packet one-way delay: 32.526 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 520.46 Mbit/s
95th percentile per-packet one-way delay: 32.526 ms
Loss rate: 0.10%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 03:31:41

End at: 2018-05-25 03:32:11

Local clock offset: 0.322 ms

Remote clock offset: -0.05 ms

Below is generated by plot.py at 2018-05-25 06:14:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 509.35 Mbit/s

95th percentile per-packet one-way delay: 1.429 ms

Loss rate: 0.06%

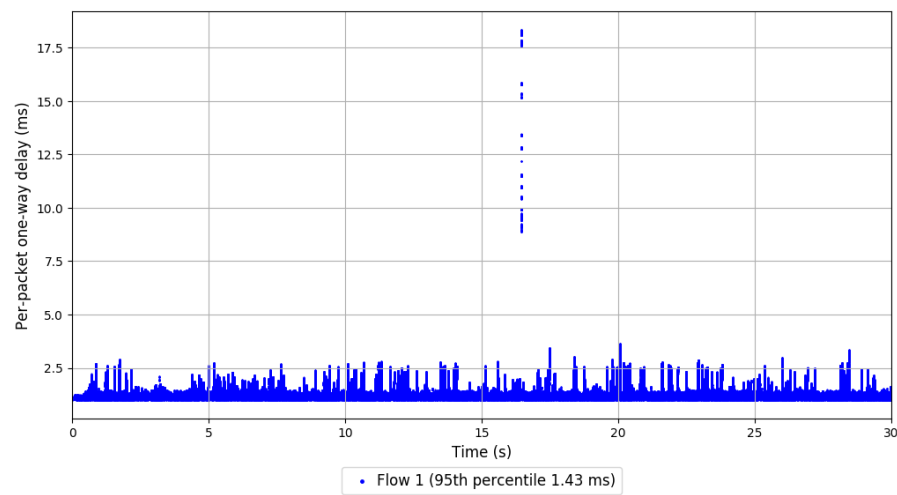
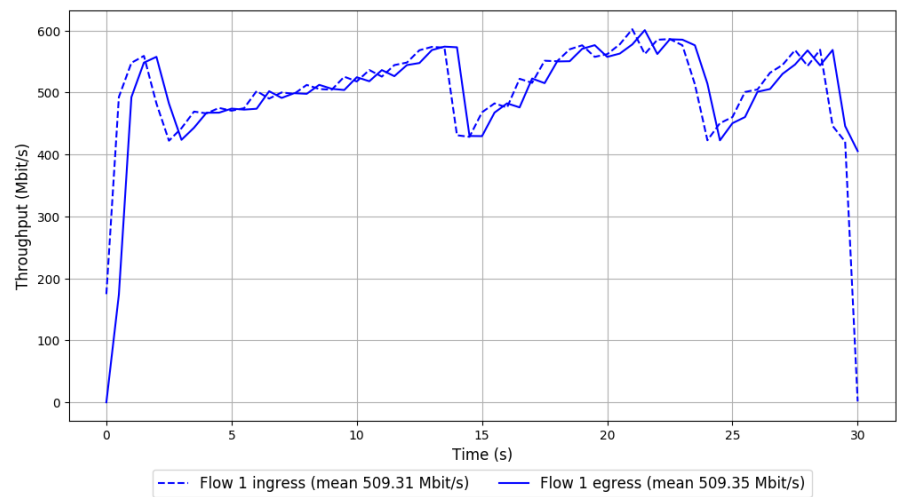
-- Flow 1:

Average throughput: 509.35 Mbit/s

95th percentile per-packet one-way delay: 1.429 ms

Loss rate: 0.06%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 03:56:16

End at: 2018-05-25 03:56:46

Local clock offset: 0.304 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-05-25 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 518.90 Mbit/s

95th percentile per-packet one-way delay: 1.344 ms

Loss rate: 0.07%

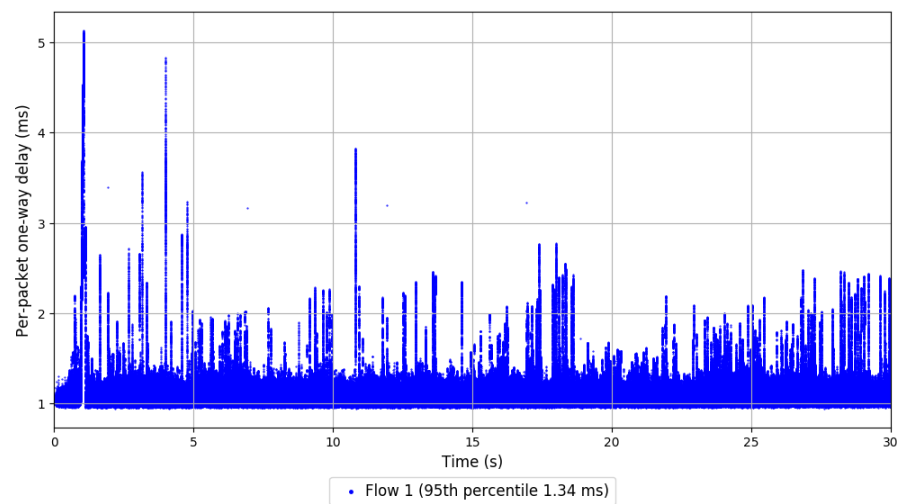
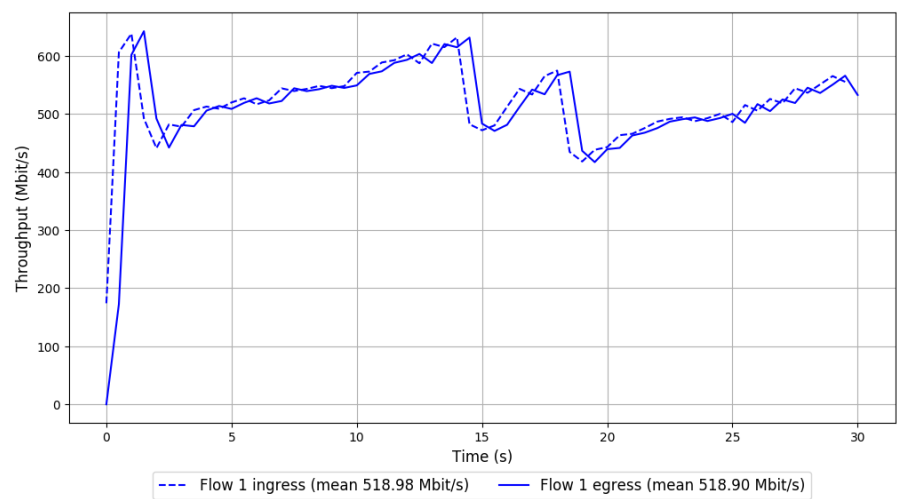
-- Flow 1:

Average throughput: 518.90 Mbit/s

95th percentile per-packet one-way delay: 1.344 ms

Loss rate: 0.07%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 04:20:55

End at: 2018-05-25 04:21:25

Local clock offset: 0.408 ms

Remote clock offset: 0.085 ms

Below is generated by plot.py at 2018-05-25 06:14:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 492.52 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.07%

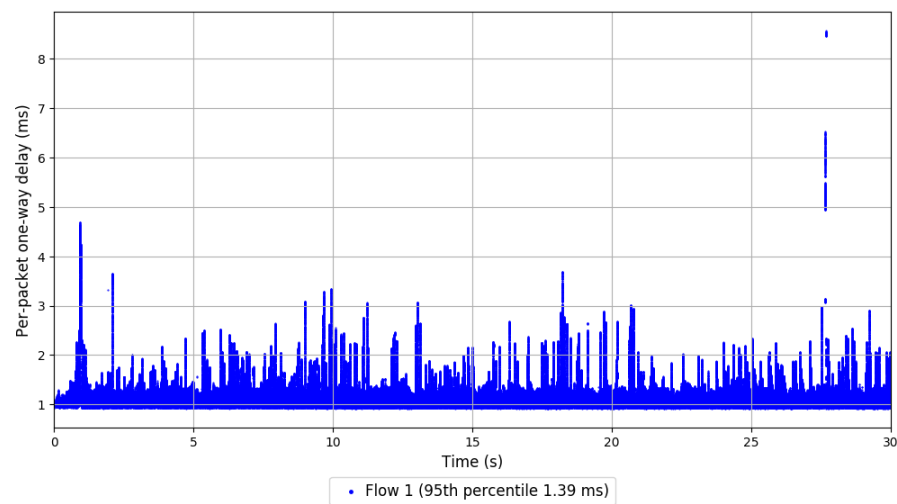
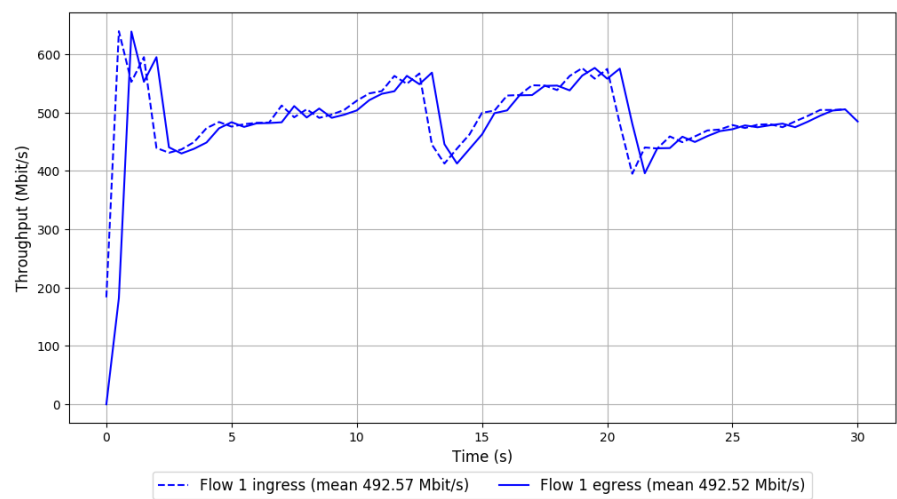
-- Flow 1:

Average throughput: 492.52 Mbit/s

95th percentile per-packet one-way delay: 1.386 ms

Loss rate: 0.07%

Run 8: Report of TCP Cubic — Data Link

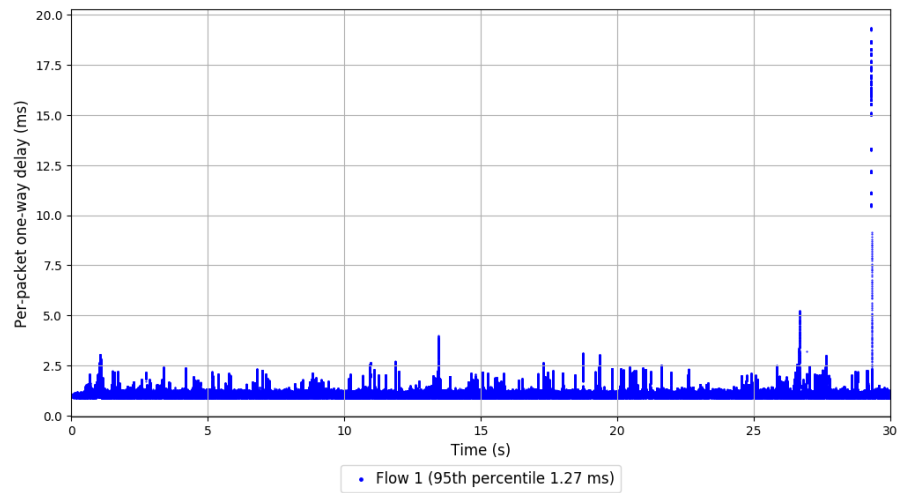
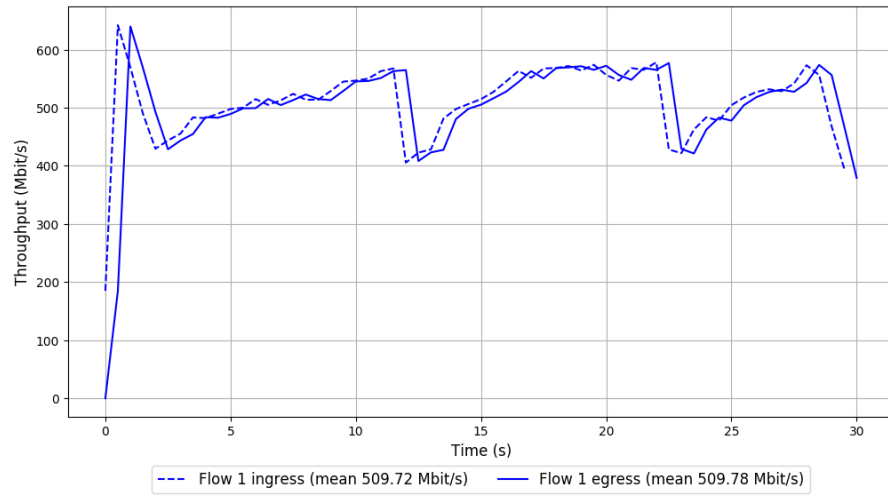


Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 04:45:06
End at: 2018-05-25 04:45:36
Local clock offset: 0.22 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-05-25 06:14:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 509.78 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 509.78 Mbit/s
95th percentile per-packet one-way delay: 1.272 ms
Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 05:09:38

End at: 2018-05-25 05:10:08

Local clock offset: 0.359 ms

Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-05-25 06:14:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 480.73 Mbit/s

95th percentile per-packet one-way delay: 1.381 ms

Loss rate: 0.06%

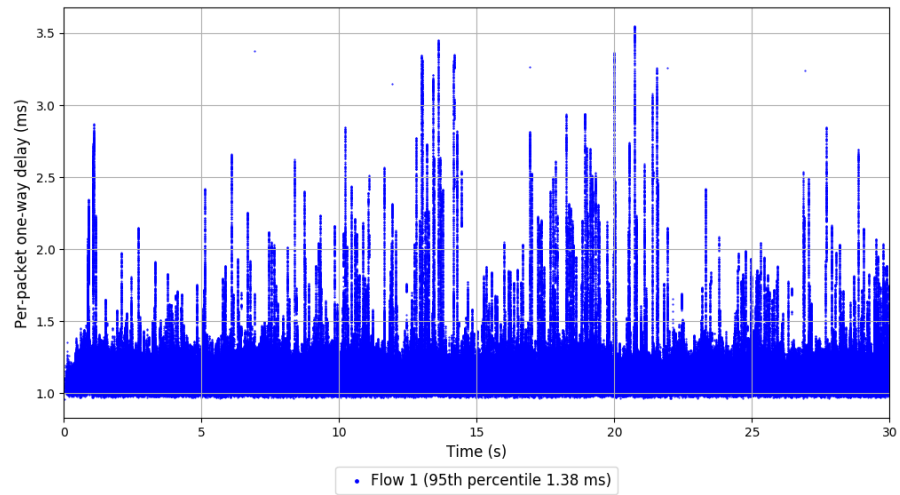
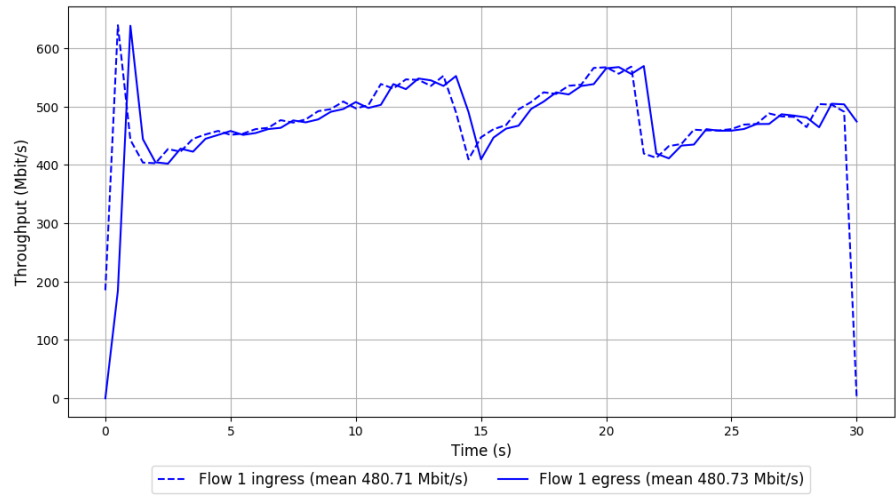
-- Flow 1:

Average throughput: 480.73 Mbit/s

95th percentile per-packet one-way delay: 1.381 ms

Loss rate: 0.06%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 01:44:14

End at: 2018-05-25 01:44:44

Local clock offset: 1.643 ms

Remote clock offset: 0.621 ms

Below is generated by plot.py at 2018-05-25 06:20:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 746.86 Mbit/s

95th percentile per-packet one-way delay: 46.752 ms

Loss rate: 4.36%

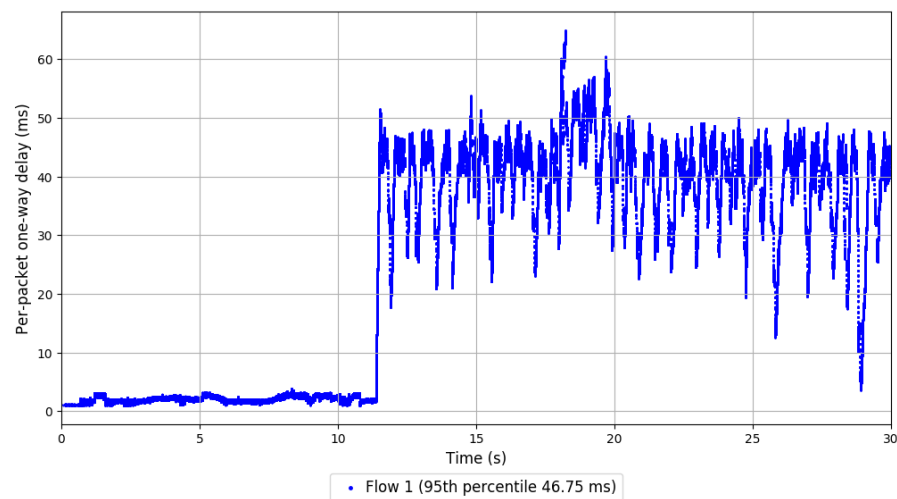
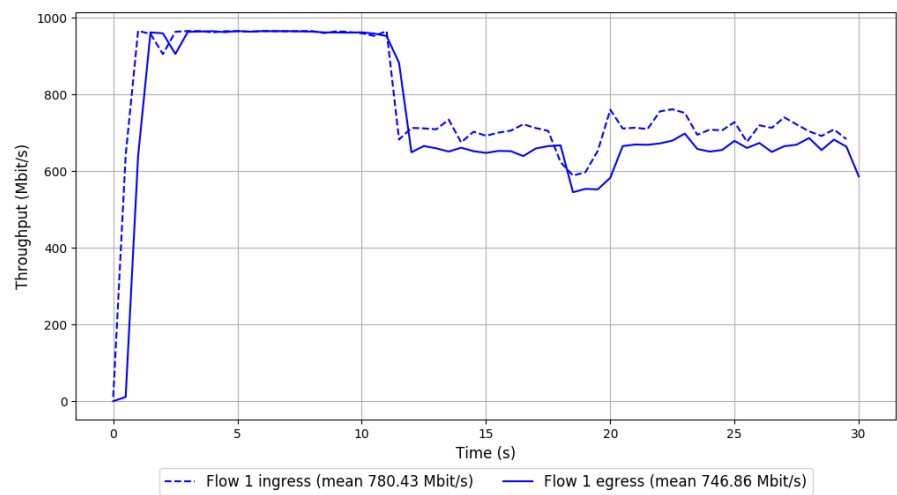
-- Flow 1:

Average throughput: 746.86 Mbit/s

95th percentile per-packet one-way delay: 46.752 ms

Loss rate: 4.36%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-25 02:08:39

End at: 2018-05-25 02:09:09

Local clock offset: 0.903 ms

Remote clock offset: 1.273 ms

Below is generated by plot.py at 2018-05-25 06:20:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 672.16 Mbit/s

95th percentile per-packet one-way delay: 45.027 ms

Loss rate: 7.80%

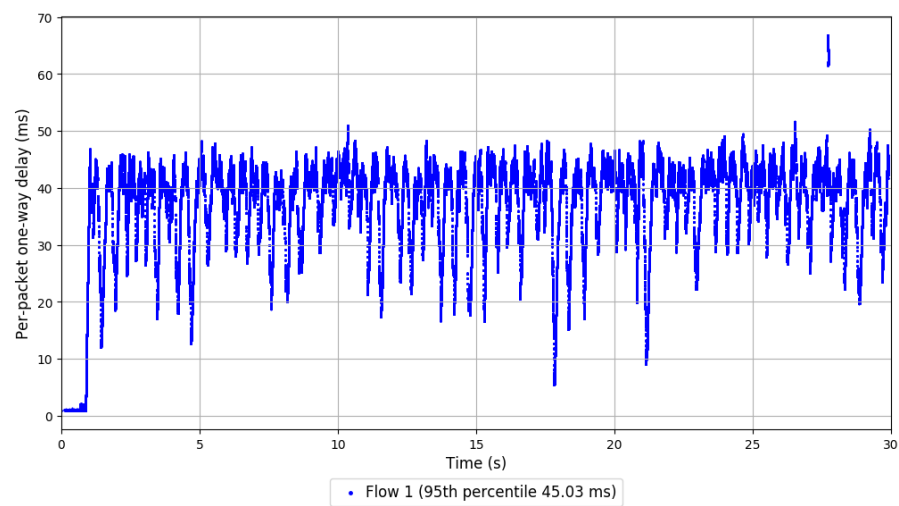
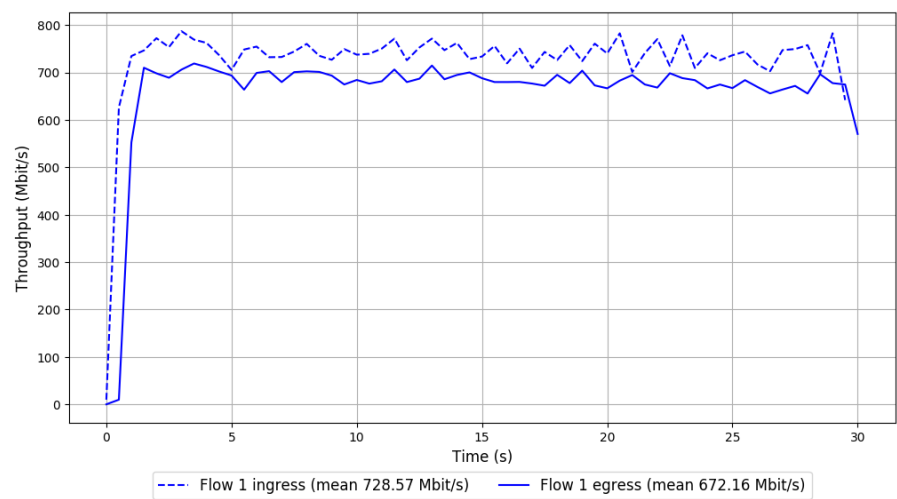
-- Flow 1:

Average throughput: 672.16 Mbit/s

95th percentile per-packet one-way delay: 45.027 ms

Loss rate: 7.80%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 02:33:33

End at: 2018-05-25 02:34:03

Local clock offset: 0.318 ms

Remote clock offset: 1.457 ms

Below is generated by plot.py at 2018-05-25 06:26:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 766.62 Mbit/s

95th percentile per-packet one-way delay: 43.538 ms

Loss rate: 4.66%

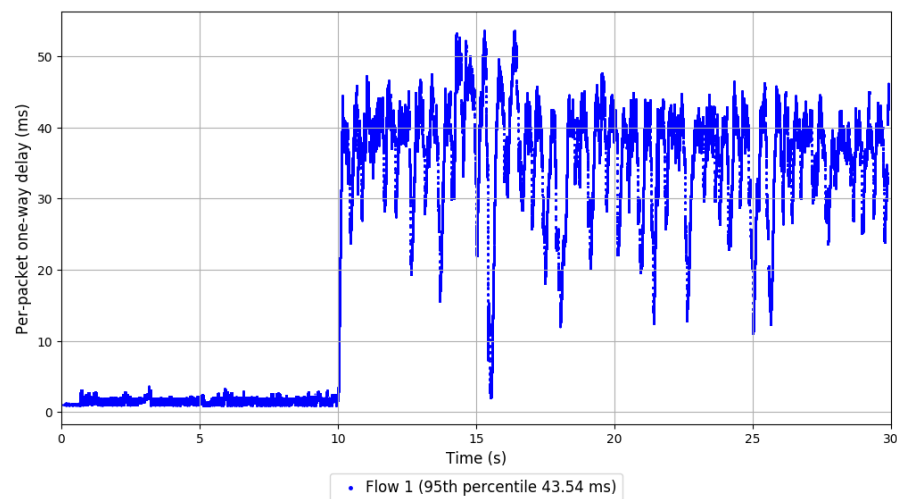
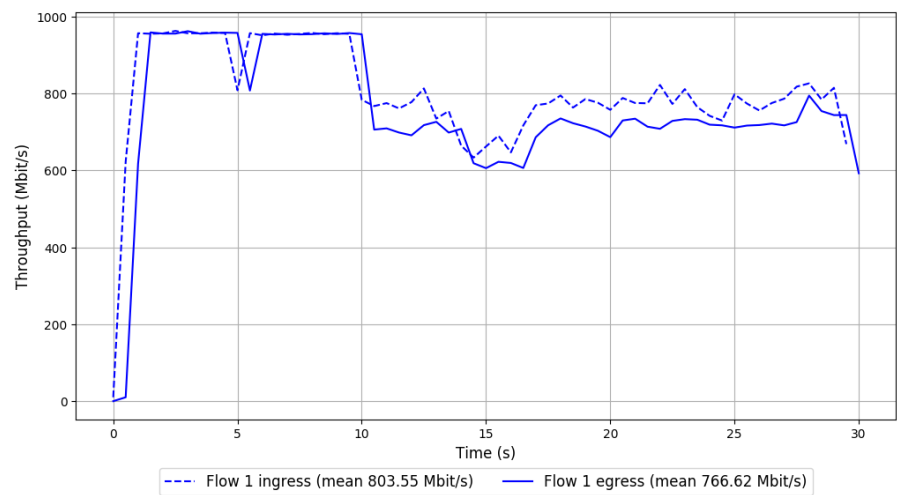
-- Flow 1:

Average throughput: 766.62 Mbit/s

95th percentile per-packet one-way delay: 43.538 ms

Loss rate: 4.66%

Run 3: Report of FillP — Data Link

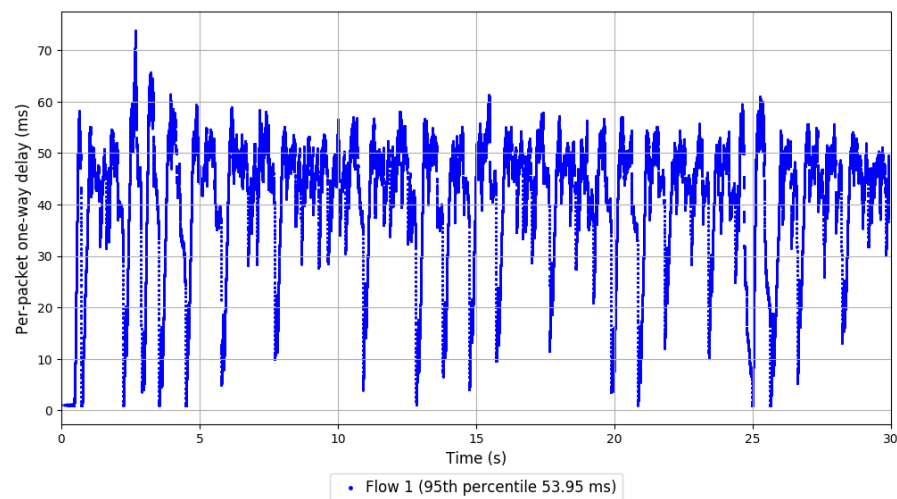
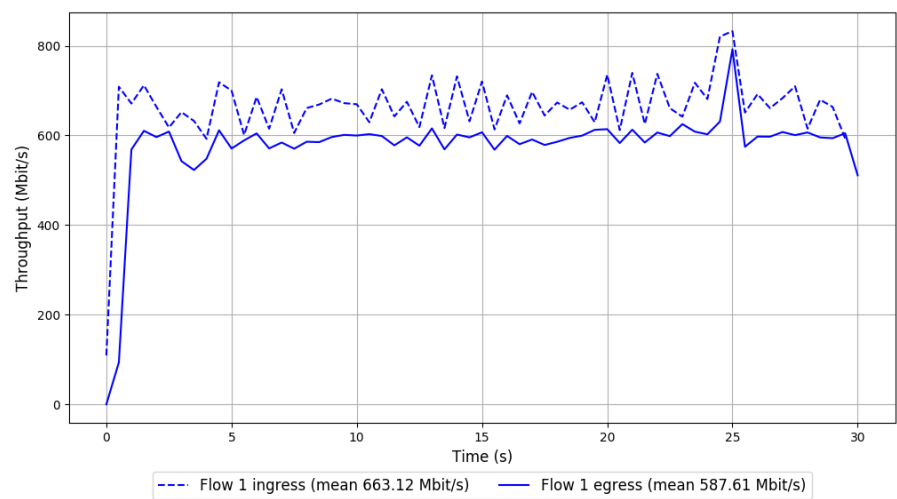


Run 4: Statistics of FillP

Start at: 2018-05-25 02:57:57
End at: 2018-05-25 02:58:27
Local clock offset: 0.049 ms
Remote clock offset: -0.113 ms

Below is generated by plot.py at 2018-05-25 06:26:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 587.61 Mbit/s
95th percentile per-packet one-way delay: 53.945 ms
Loss rate: 11.44%
-- Flow 1:
Average throughput: 587.61 Mbit/s
95th percentile per-packet one-way delay: 53.945 ms
Loss rate: 11.44%

Run 4: Report of FillP — Data Link

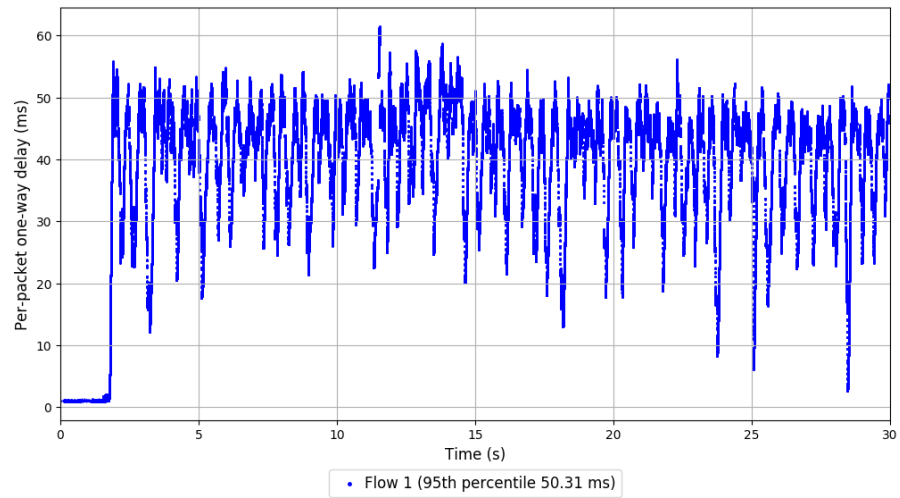
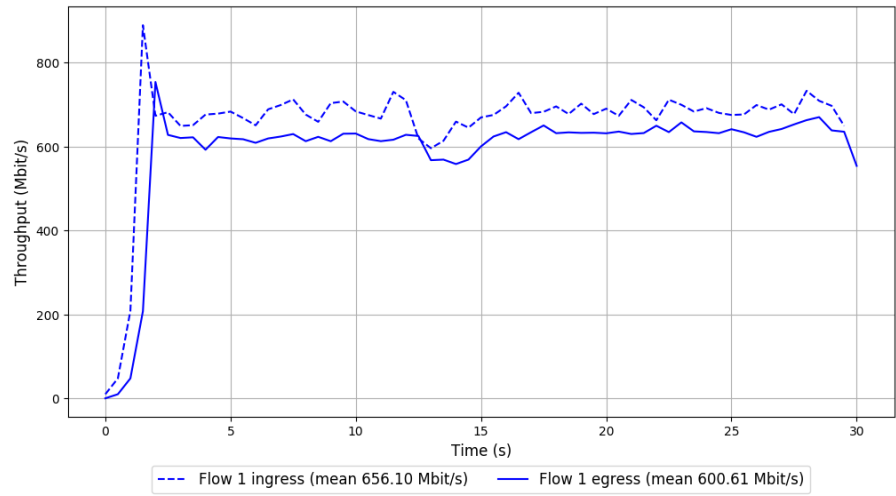


Run 5: Statistics of FillP

Start at: 2018-05-25 03:22:19
End at: 2018-05-25 03:22:49
Local clock offset: 0.234 ms
Remote clock offset: -0.115 ms

Below is generated by plot.py at 2018-05-25 06:26:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 600.61 Mbit/s
95th percentile per-packet one-way delay: 50.307 ms
Loss rate: 8.52%
-- Flow 1:
Average throughput: 600.61 Mbit/s
95th percentile per-packet one-way delay: 50.307 ms
Loss rate: 8.52%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 03:46:51

End at: 2018-05-25 03:47:21

Local clock offset: 0.232 ms

Remote clock offset: 0.046 ms

Below is generated by plot.py at 2018-05-25 06:26:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 611.09 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 8.72%

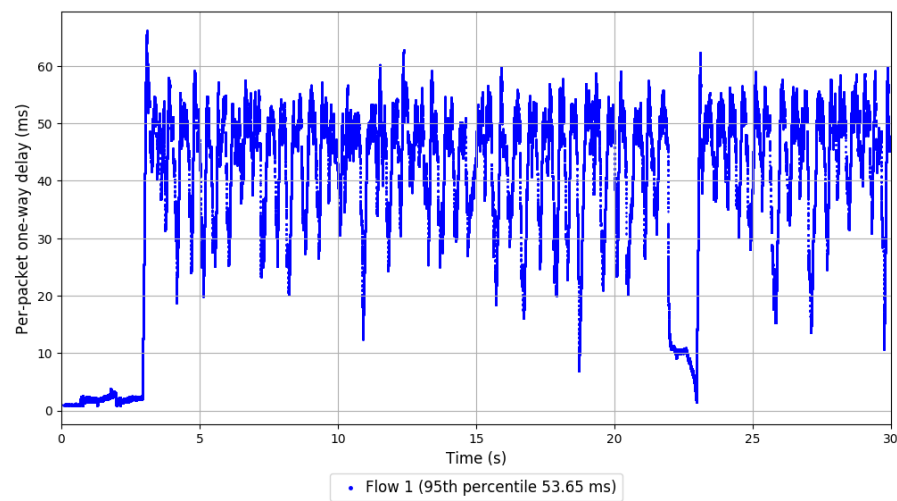
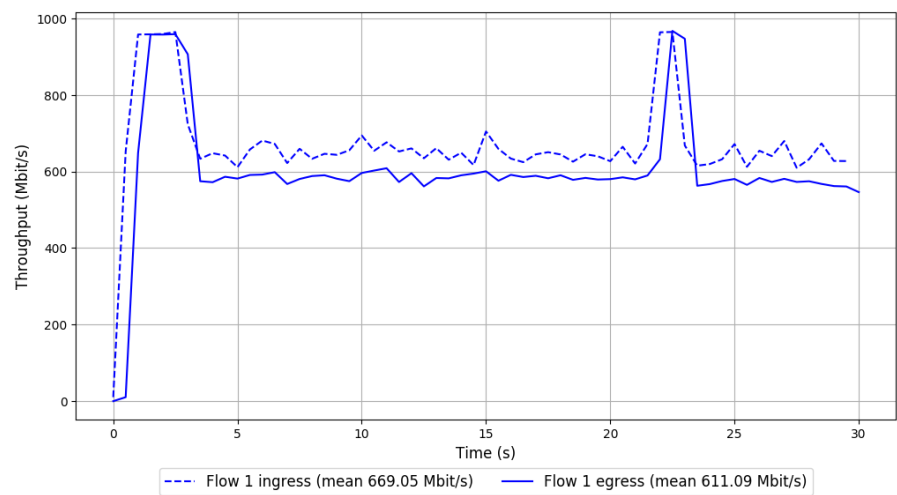
-- Flow 1:

Average throughput: 611.09 Mbit/s

95th percentile per-packet one-way delay: 53.647 ms

Loss rate: 8.72%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 04:11:27

End at: 2018-05-25 04:11:57

Local clock offset: 0.389 ms

Remote clock offset: 0.123 ms

Below is generated by plot.py at 2018-05-25 06:28:01

Datalink statistics

-- Total of 1 flow:

Average throughput: 834.78 Mbit/s

95th percentile per-packet one-way delay: 41.995 ms

Loss rate: 2.89%

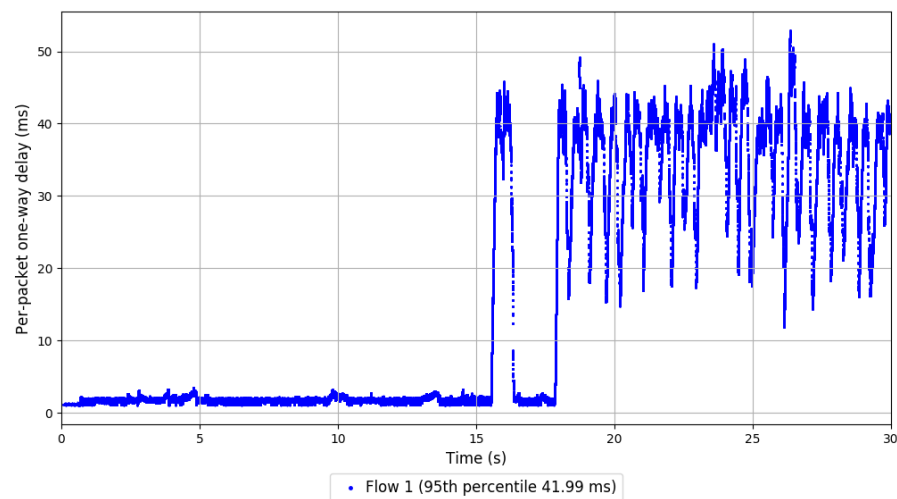
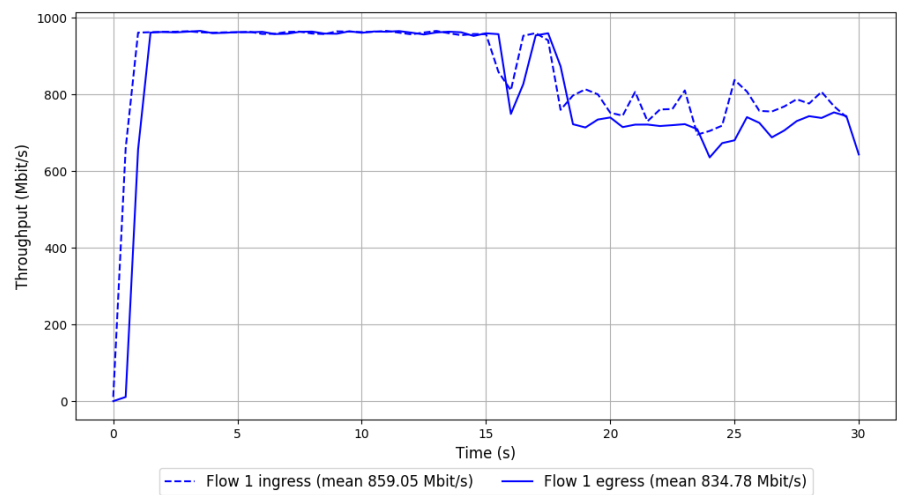
-- Flow 1:

Average throughput: 834.78 Mbit/s

95th percentile per-packet one-way delay: 41.995 ms

Loss rate: 2.89%

Run 7: Report of FillP — Data Link

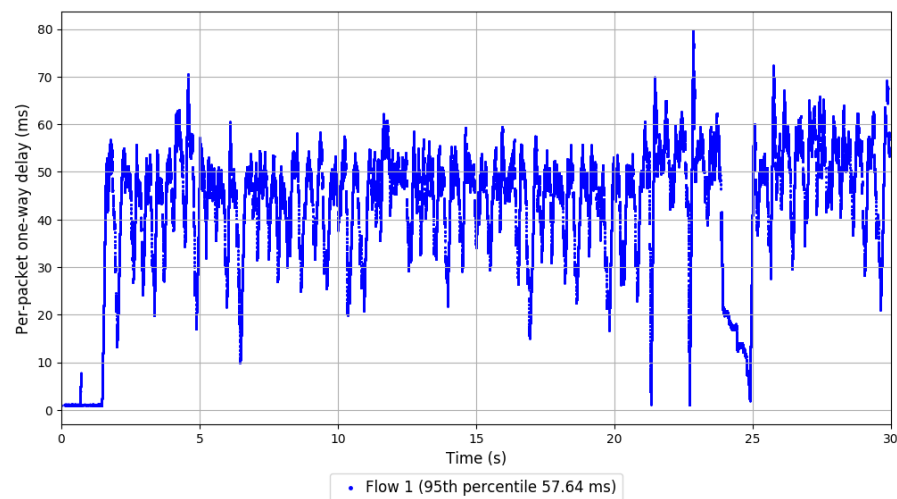
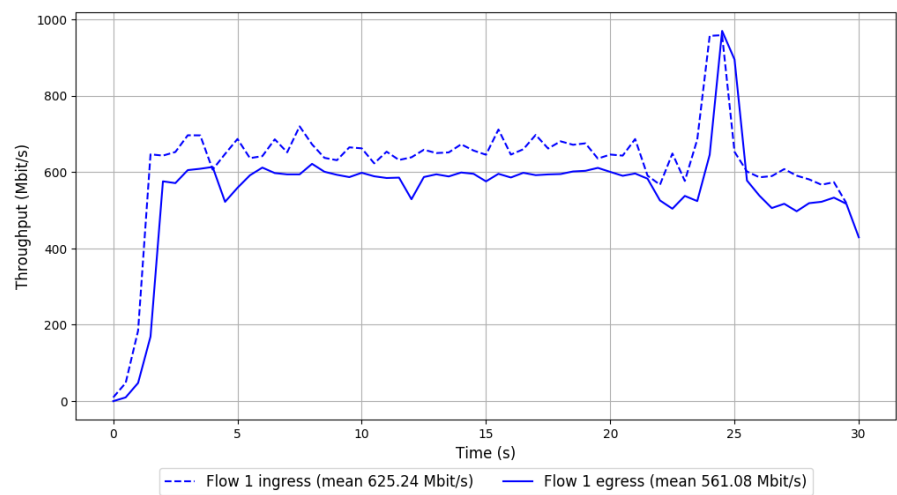


Run 8: Statistics of FillP

Start at: 2018-05-25 04:35:58
End at: 2018-05-25 04:36:28
Local clock offset: 0.361 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-25 06:28:01
Datalink statistics
-- Total of 1 flow:
Average throughput: 561.08 Mbit/s
95th percentile per-packet one-way delay: 57.642 ms
Loss rate: 10.32%
-- Flow 1:
Average throughput: 561.08 Mbit/s
95th percentile per-packet one-way delay: 57.642 ms
Loss rate: 10.32%

Run 8: Report of FillP — Data Link

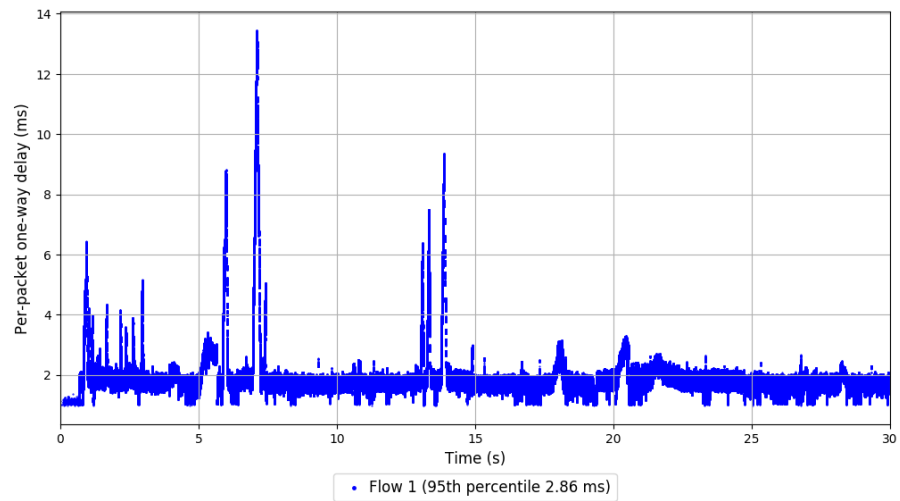
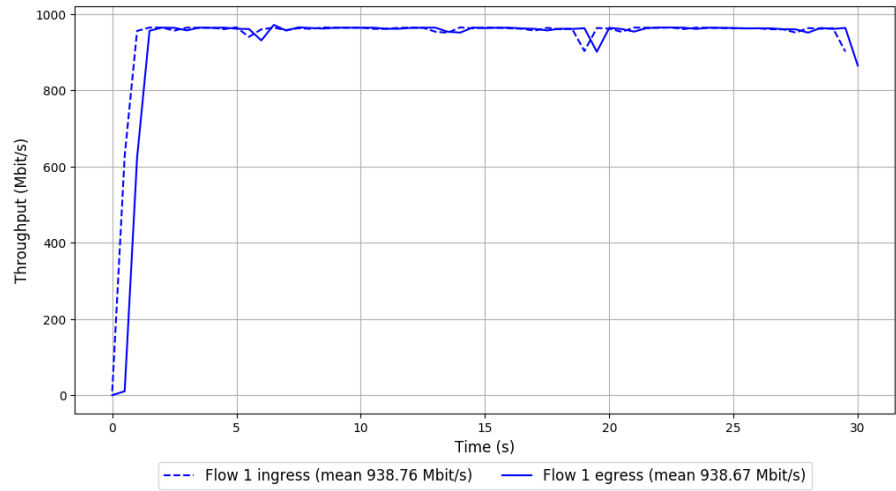


Run 9: Statistics of FillP

Start at: 2018-05-25 05:00:19
End at: 2018-05-25 05:00:49
Local clock offset: 0.3 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-05-25 06:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 938.67 Mbit/s
95th percentile per-packet one-way delay: 2.857 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 938.67 Mbit/s
95th percentile per-packet one-way delay: 2.857 ms
Loss rate: 0.08%

Run 9: Report of FillP — Data Link

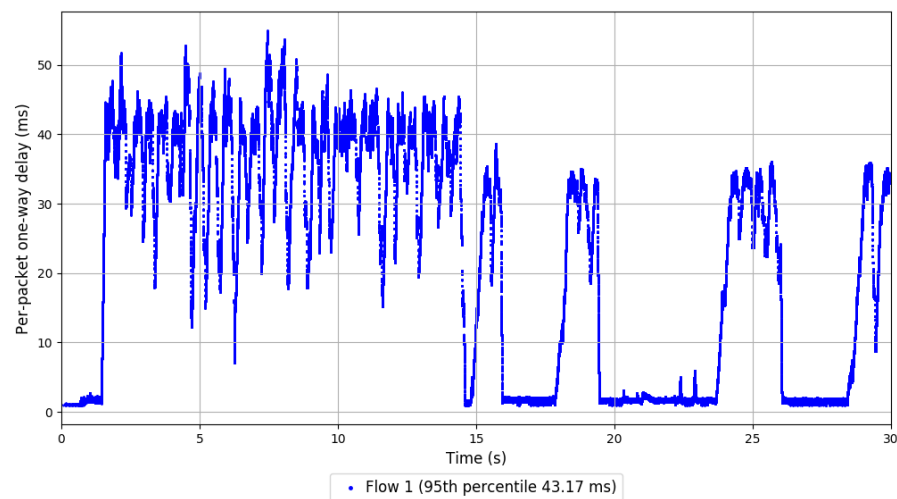
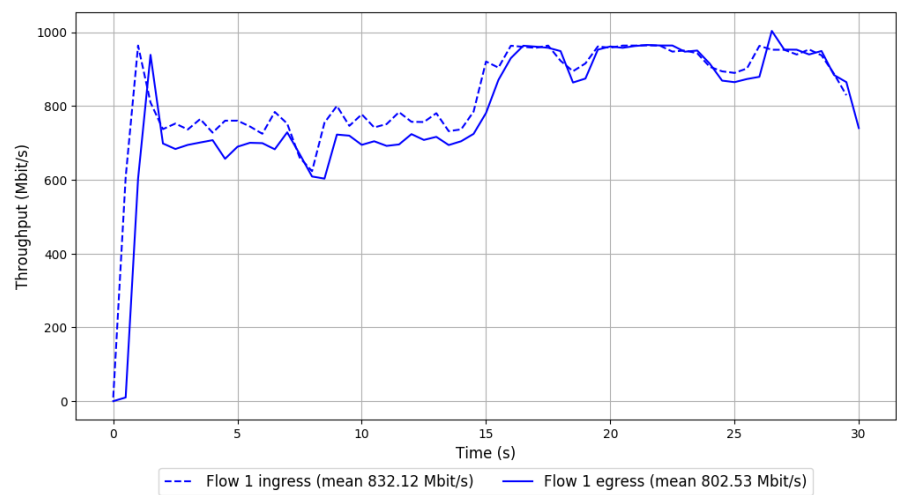


Run 10: Statistics of FillP

Start at: 2018-05-25 05:24:32
End at: 2018-05-25 05:25:02
Local clock offset: 0.281 ms
Remote clock offset: -0.218 ms

Below is generated by plot.py at 2018-05-25 06:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 802.53 Mbit/s
95th percentile per-packet one-way delay: 43.170 ms
Loss rate: 3.62%
-- Flow 1:
Average throughput: 802.53 Mbit/s
95th percentile per-packet one-way delay: 43.170 ms
Loss rate: 3.62%

Run 10: Report of FillP — Data Link

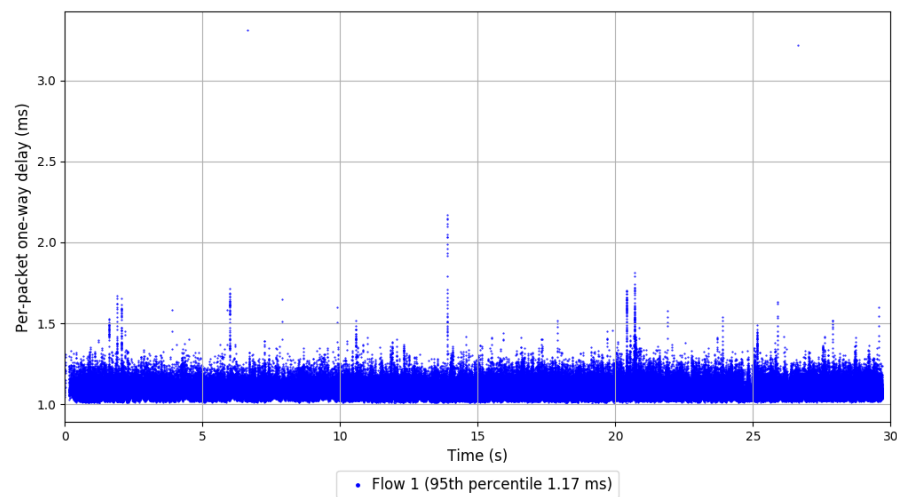
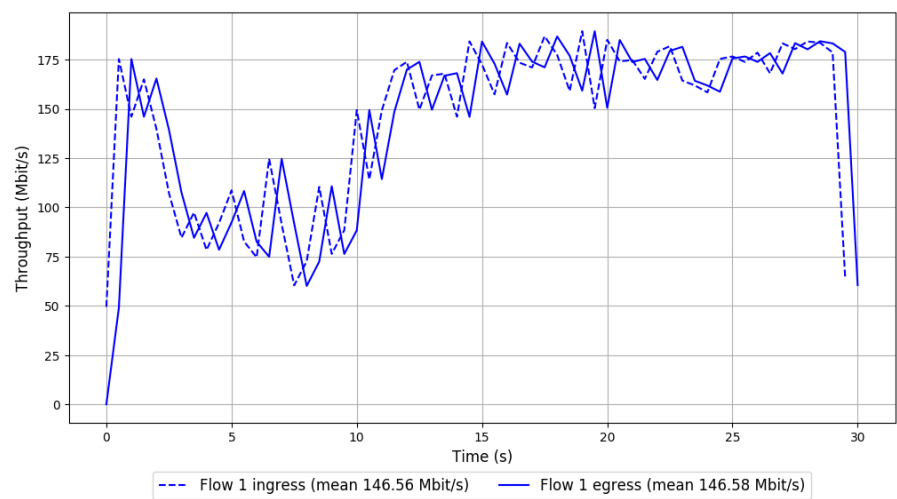


```
Run 1: Statistics of Indigo

Start at: 2018-05-25 01:30:38
End at: 2018-05-25 01:31:08
Local clock offset: 1.506 ms
Remote clock offset: 0.345 ms

# Below is generated by plot.py at 2018-05-25 06:35:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 146.58 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 146.58 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.05%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 01:55:13

End at: 2018-05-25 01:55:43

Local clock offset: 1.75 ms

Remote clock offset: 0.983 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 160.40 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.09%

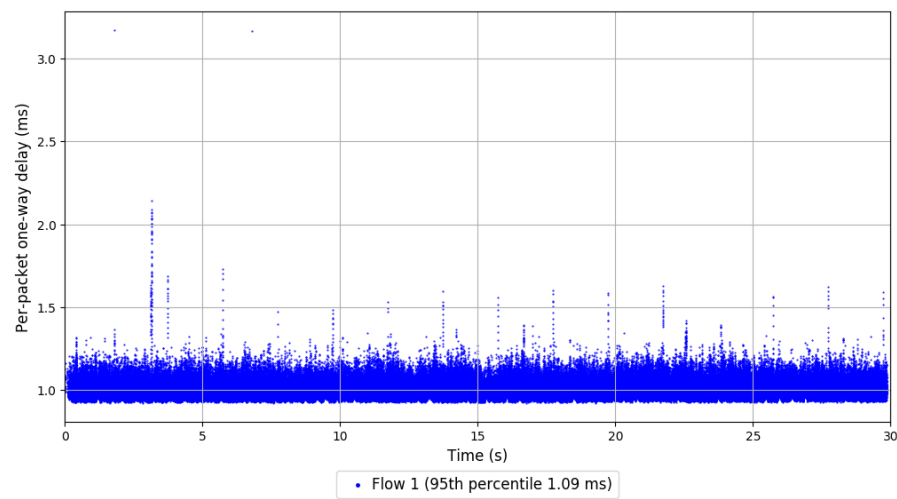
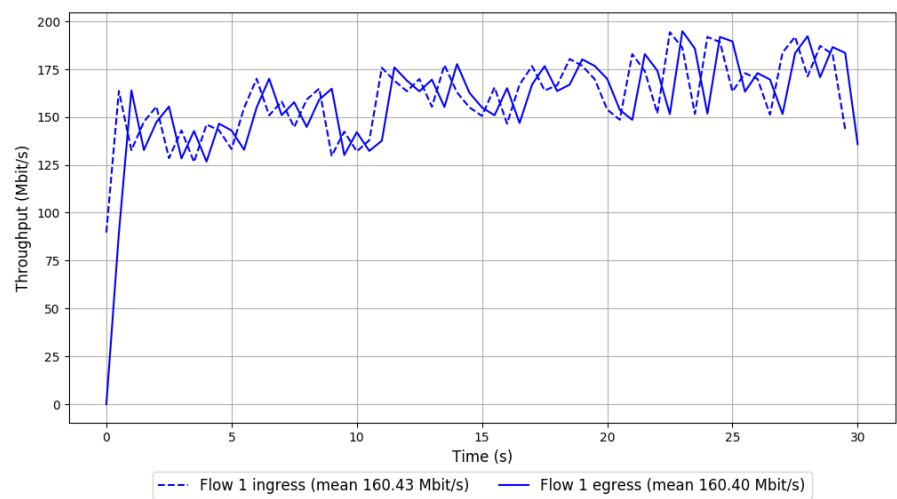
-- Flow 1:

Average throughput: 160.40 Mbit/s

95th percentile per-packet one-way delay: 1.088 ms

Loss rate: 0.09%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-25 02:19:52

End at: 2018-05-25 02:20:22

Local clock offset: 0.524 ms

Remote clock offset: 1.467 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 168.04 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.03%

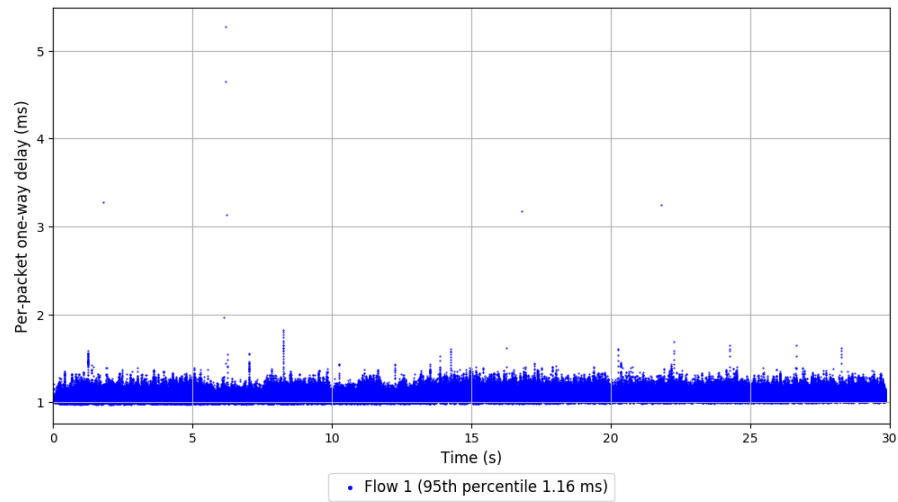
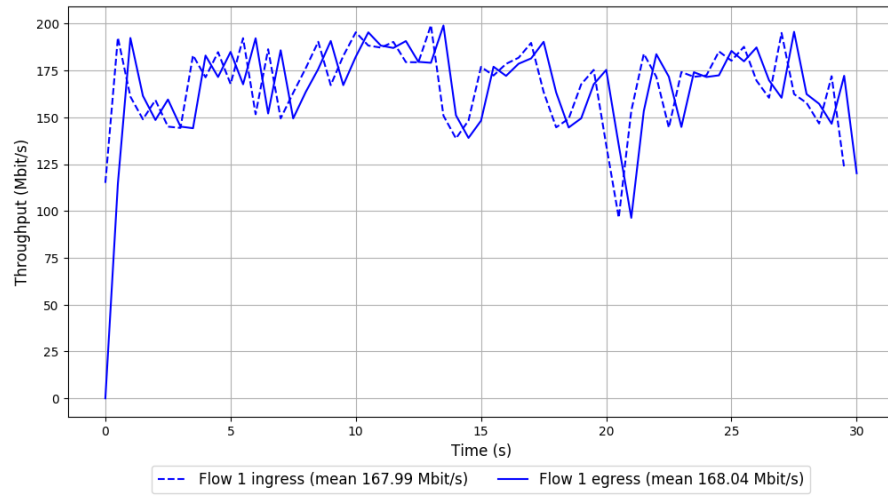
-- Flow 1:

Average throughput: 168.04 Mbit/s

95th percentile per-packet one-way delay: 1.163 ms

Loss rate: 0.03%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 02:44:31

End at: 2018-05-25 02:45:01

Local clock offset: 0.11 ms

Remote clock offset: 0.303 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 138.56 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.08%

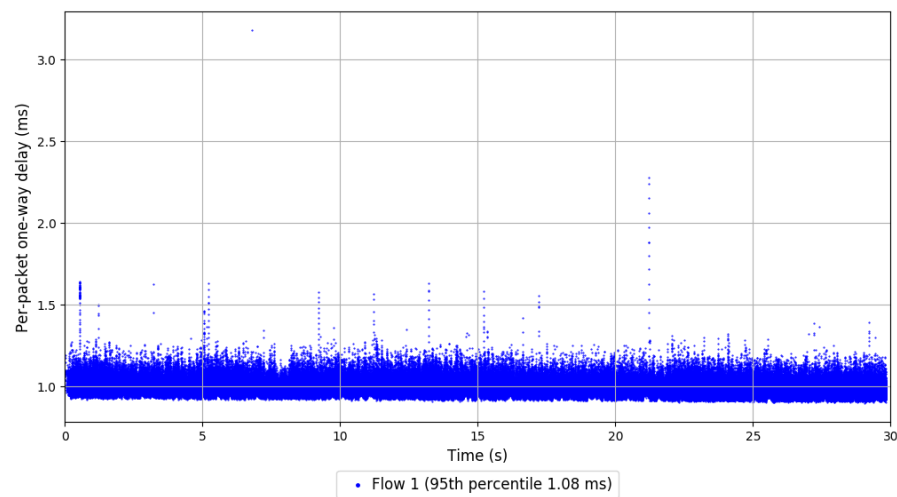
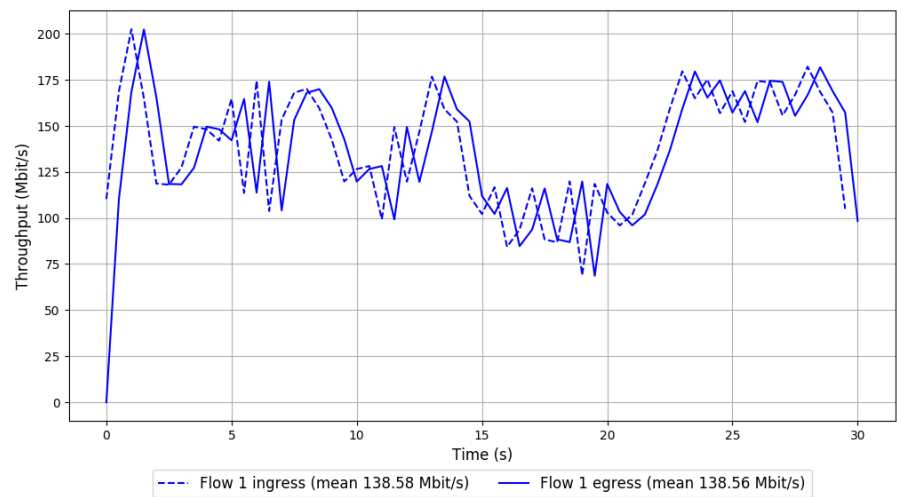
-- Flow 1:

Average throughput: 138.56 Mbit/s

95th percentile per-packet one-way delay: 1.078 ms

Loss rate: 0.08%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-25 03:08:51

End at: 2018-05-25 03:09:21

Local clock offset: 0.277 ms

Remote clock offset: -0.26 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 149.33 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.08%

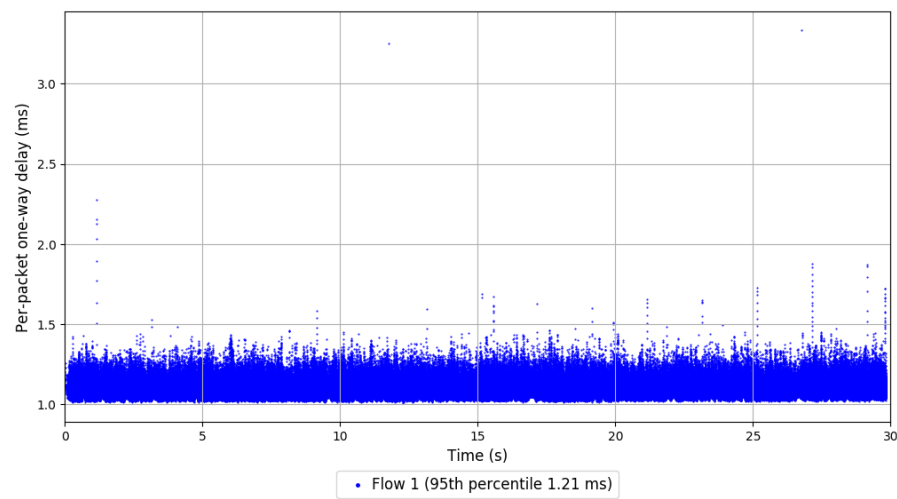
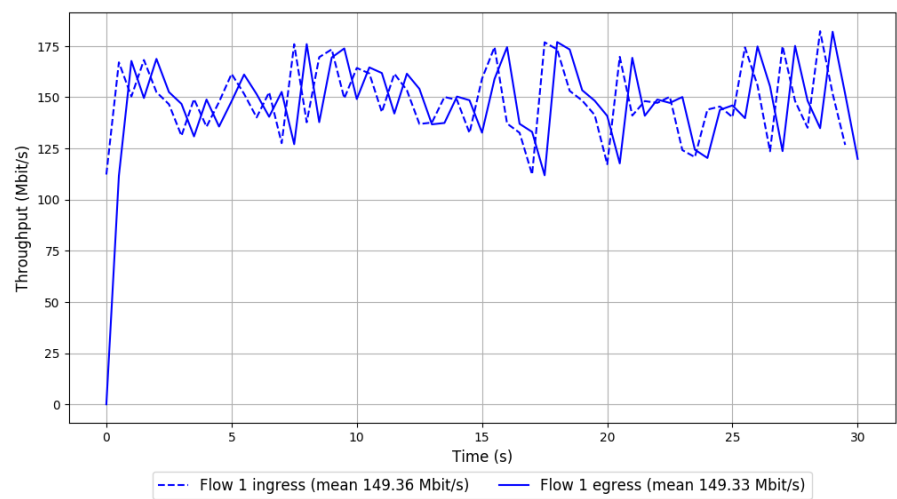
-- Flow 1:

Average throughput: 149.33 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.08%

Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 03:33:15

End at: 2018-05-25 03:33:45

Local clock offset: 0.334 ms

Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 112.56 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.12%

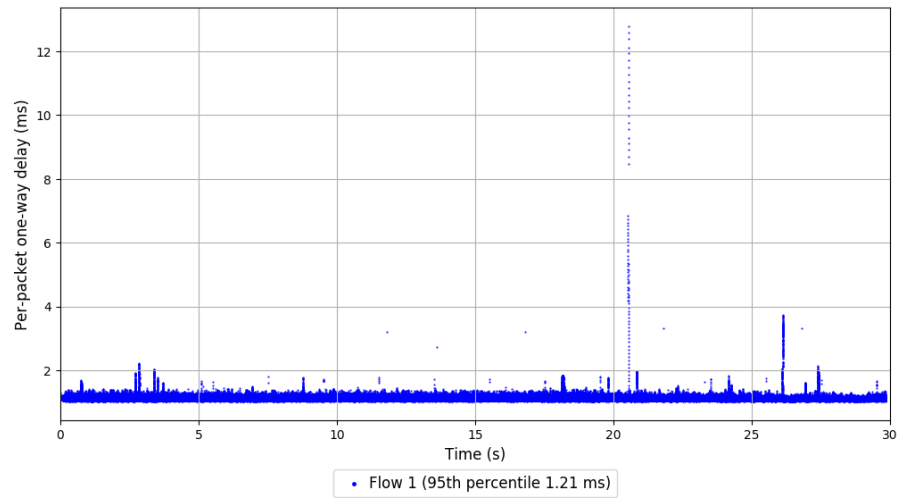
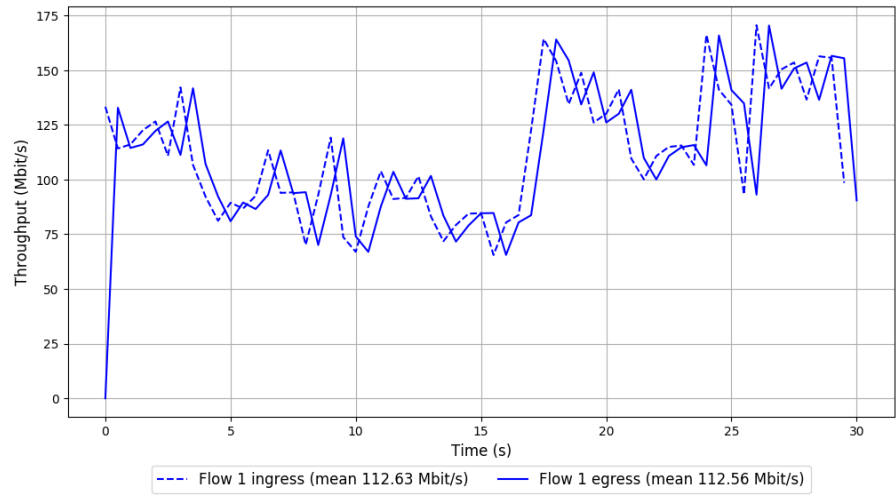
-- Flow 1:

Average throughput: 112.56 Mbit/s

95th percentile per-packet one-way delay: 1.211 ms

Loss rate: 0.12%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 03:57:50

End at: 2018-05-25 03:58:20

Local clock offset: 0.301 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 161.79 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.08%

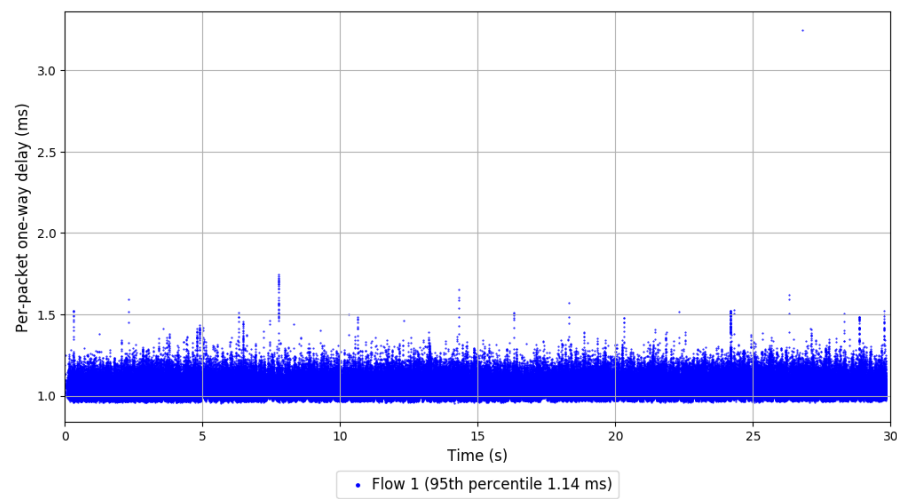
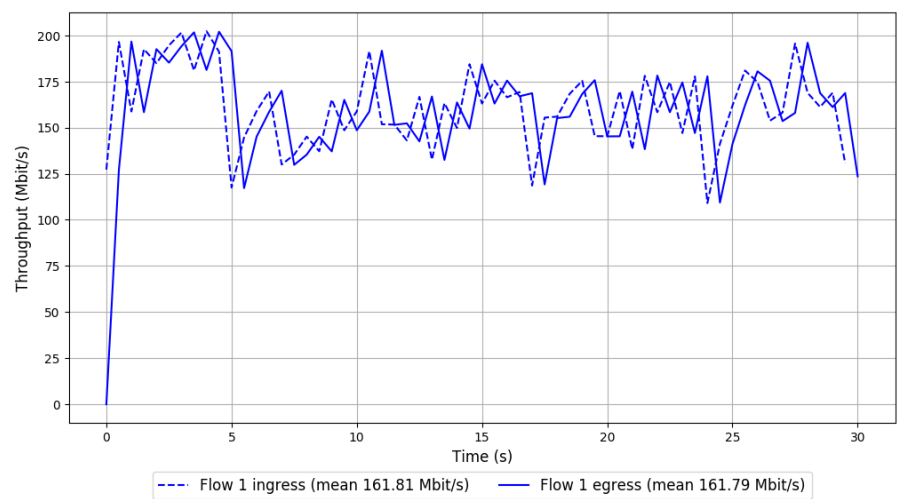
-- Flow 1:

Average throughput: 161.79 Mbit/s

95th percentile per-packet one-way delay: 1.143 ms

Loss rate: 0.08%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 04:22:29

End at: 2018-05-25 04:22:59

Local clock offset: 0.425 ms

Remote clock offset: 0.047 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 111.22 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.09%

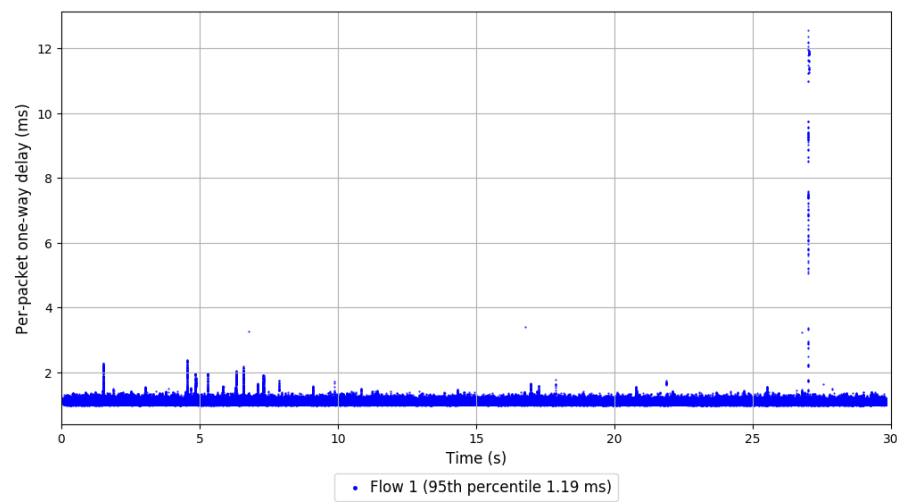
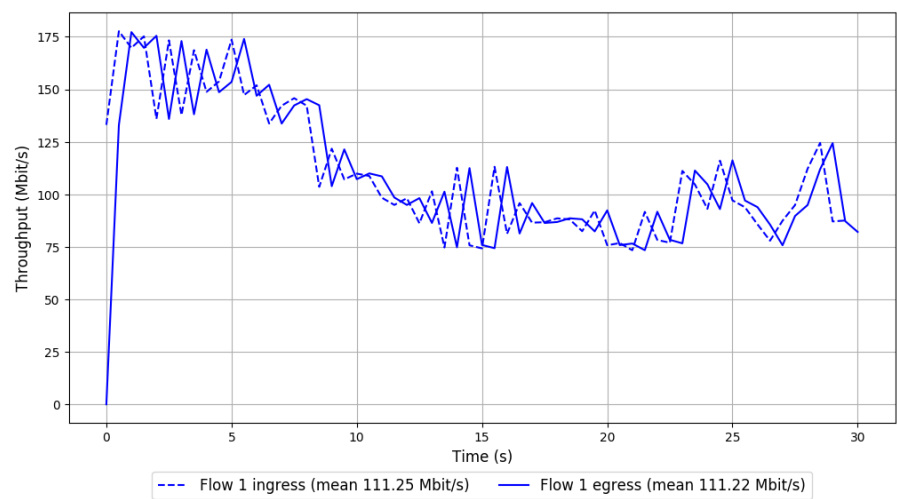
-- Flow 1:

Average throughput: 111.22 Mbit/s

95th percentile per-packet one-way delay: 1.194 ms

Loss rate: 0.09%

Run 8: Report of Indigo — Data Link

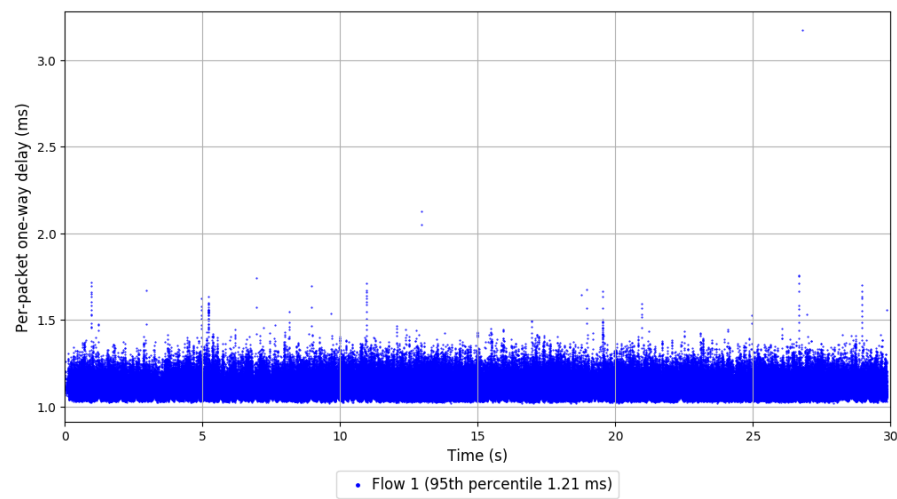
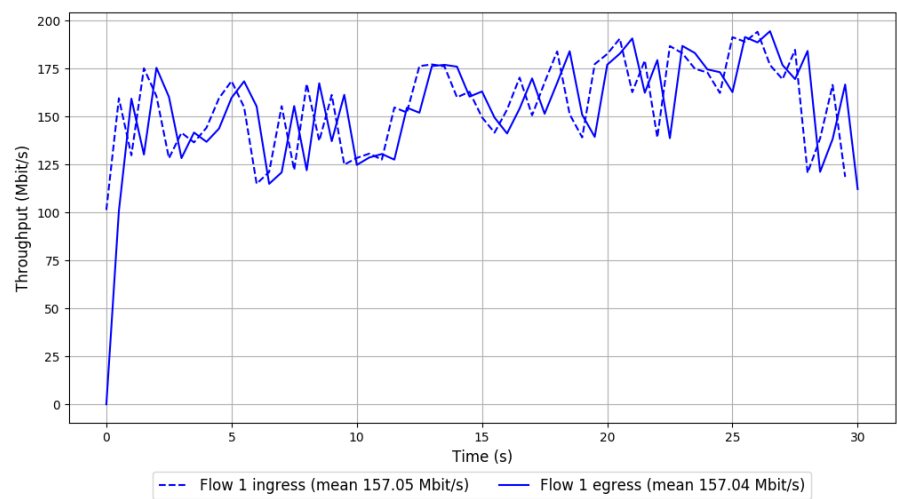


Run 9: Statistics of Indigo

Start at: 2018-05-25 04:46:40
End at: 2018-05-25 04:47:10
Local clock offset: 0.324 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-05-25 06:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 157.04 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 157.04 Mbit/s
95th percentile per-packet one-way delay: 1.210 ms
Loss rate: 0.07%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-25 05:11:13

End at: 2018-05-25 05:11:43

Local clock offset: 0.358 ms

Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 175.09 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.09%

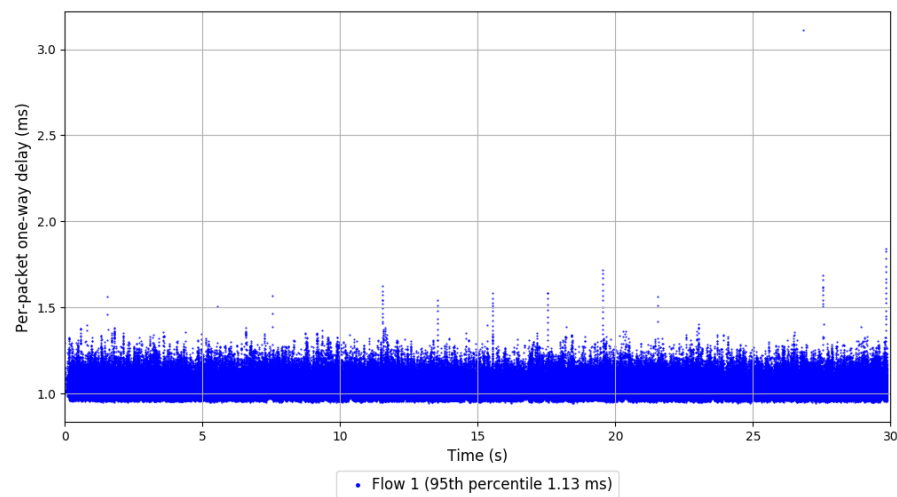
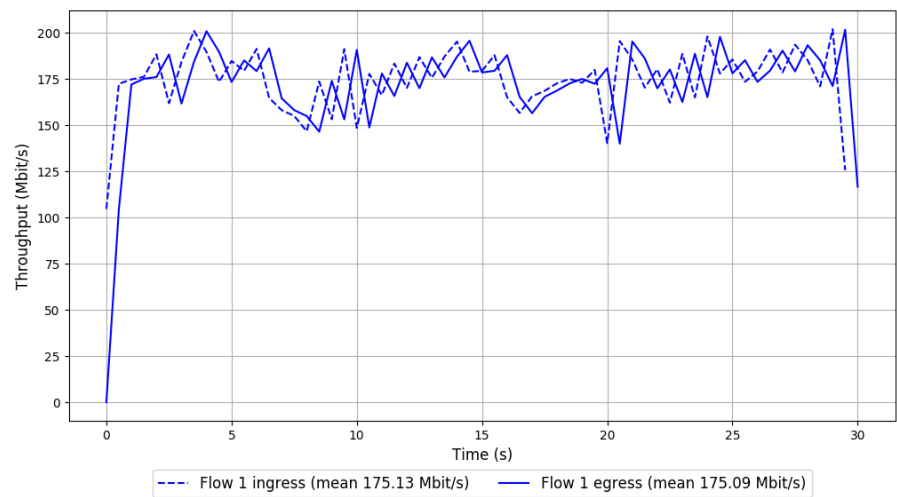
-- Flow 1:

Average throughput: 175.09 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.09%

Run 10: Report of Indigo — Data Link

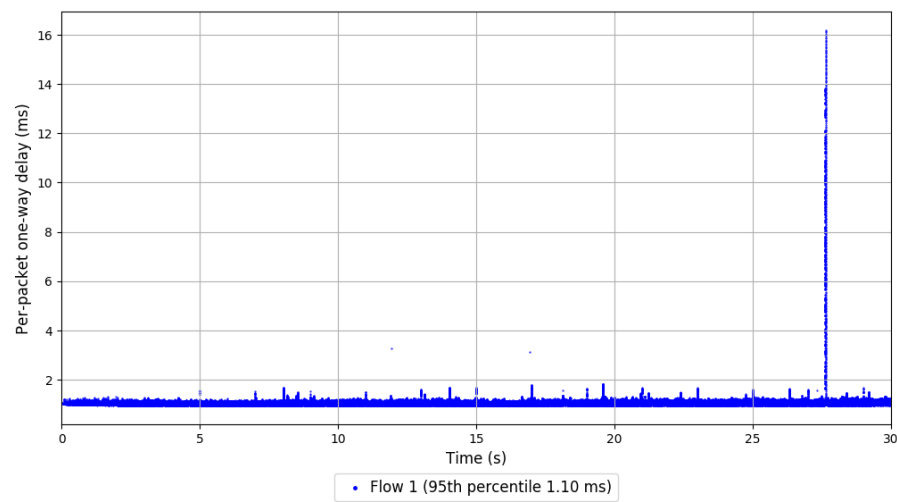
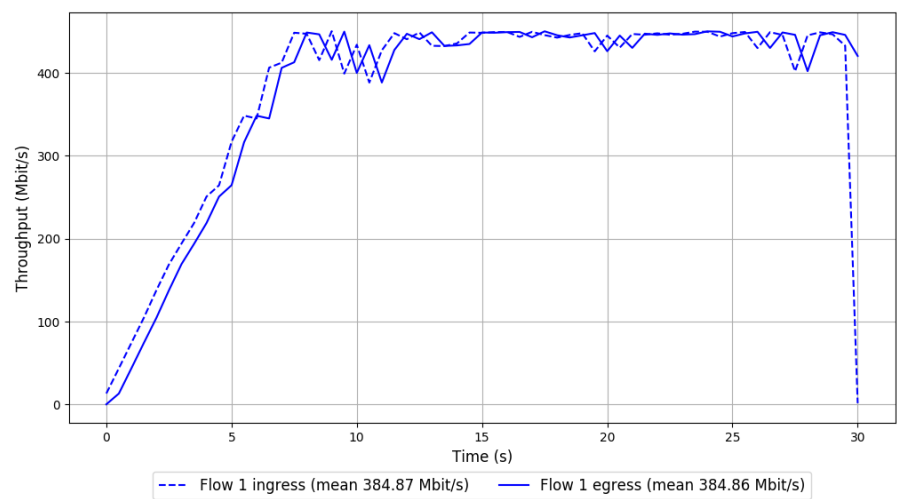


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-25 01:35:06
End at: 2018-05-25 01:35:36
Local clock offset: 1.563 ms
Remote clock offset: 0.507 ms

# Below is generated by plot.py at 2018-05-25 06:35:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 384.86 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 384.86 Mbit/s
95th percentile per-packet one-way delay: 1.097 ms
Loss rate: 0.07%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 01:59:44

End at: 2018-05-25 02:00:14

Local clock offset: 1.672 ms

Remote clock offset: 1.049 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 362.45 Mbit/s

95th percentile per-packet one-way delay: 4.279 ms

Loss rate: 0.07%

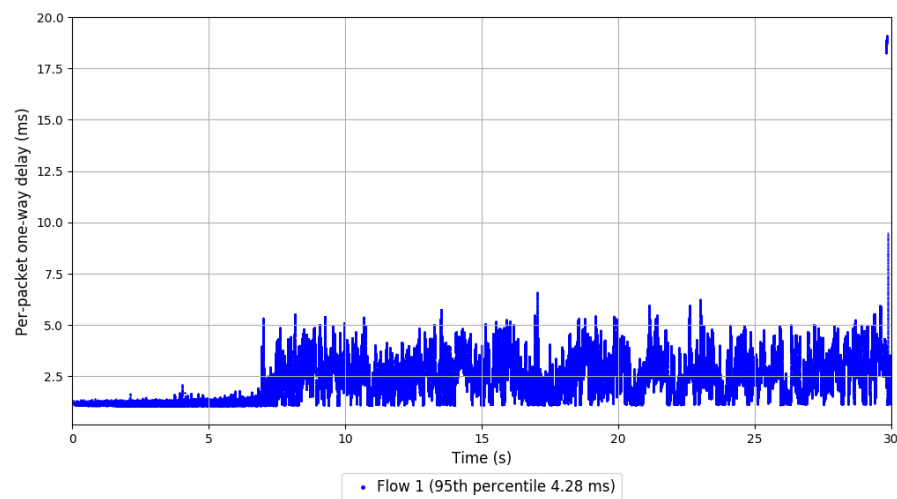
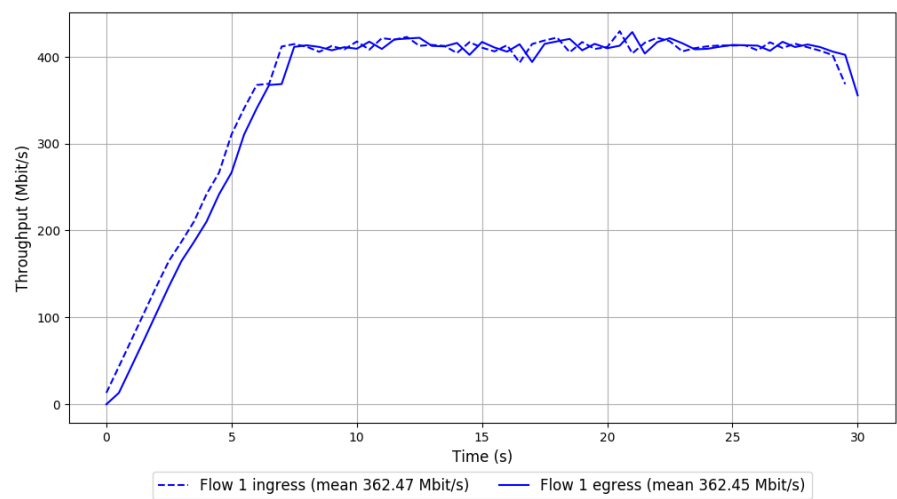
-- Flow 1:

Average throughput: 362.45 Mbit/s

95th percentile per-packet one-way delay: 4.279 ms

Loss rate: 0.07%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2018-05-25 02:24:14

End at: 2018-05-25 02:24:44

Local clock offset: 0.449 ms

Remote clock offset: 1.588 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 345.88 Mbit/s

95th percentile per-packet one-way delay: 5.923 ms

Loss rate: 0.09%

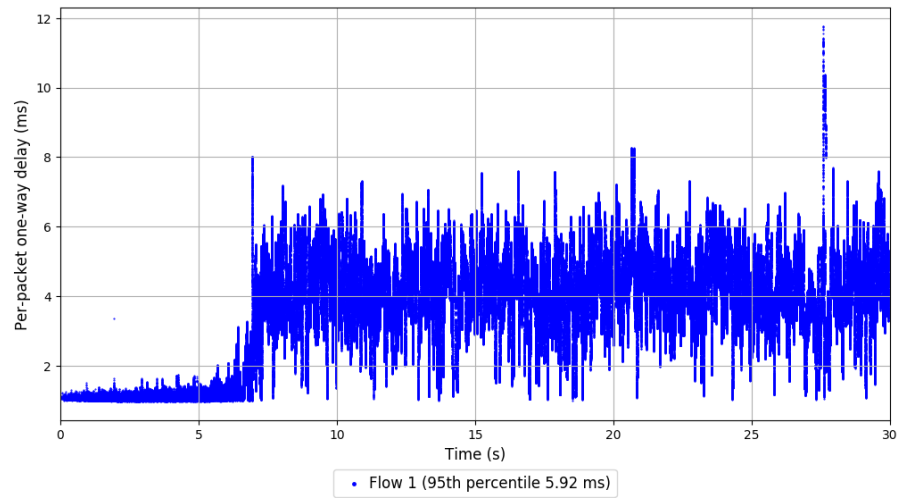
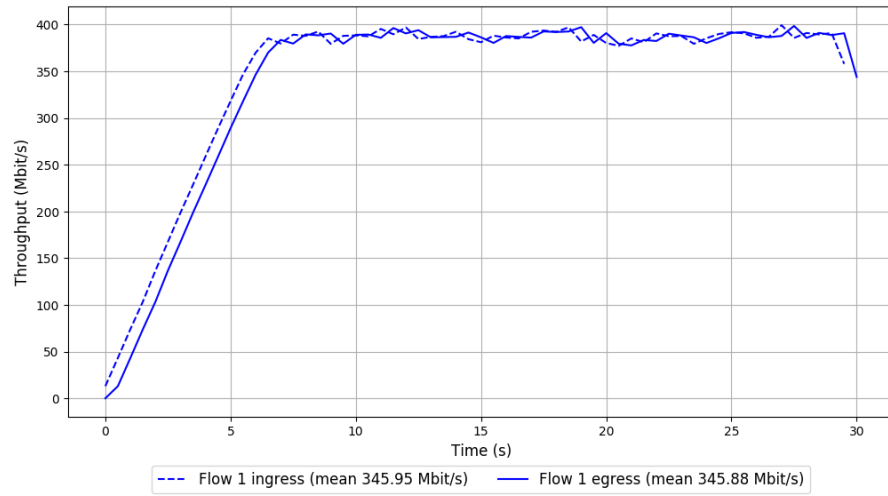
-- Flow 1:

Average throughput: 345.88 Mbit/s

95th percentile per-packet one-way delay: 5.923 ms

Loss rate: 0.09%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 02:48:56

End at: 2018-05-25 02:49:26

Local clock offset: 0.153 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.78 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.08%

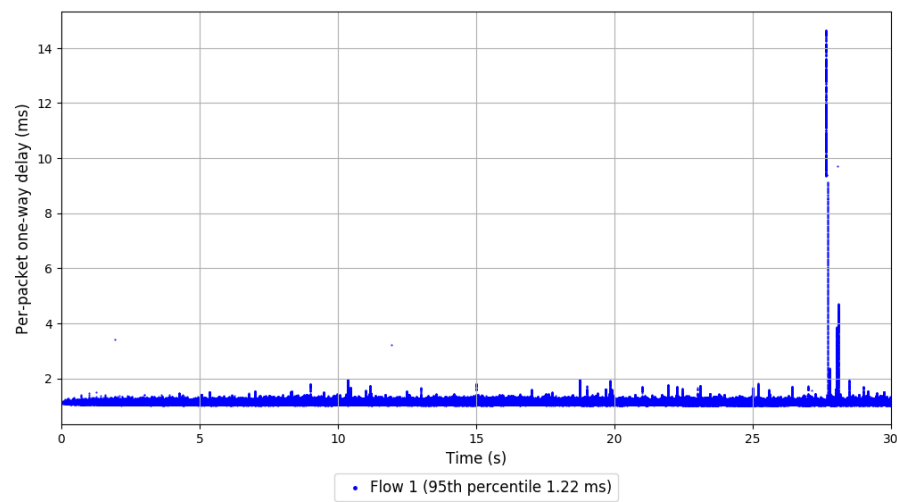
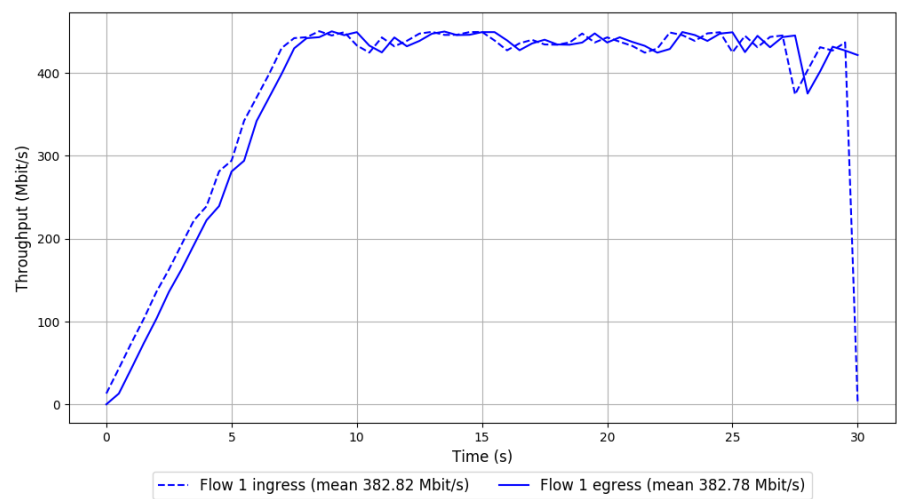
-- Flow 1:

Average throughput: 382.78 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.08%

Run 4: Report of LEDBAT — Data Link

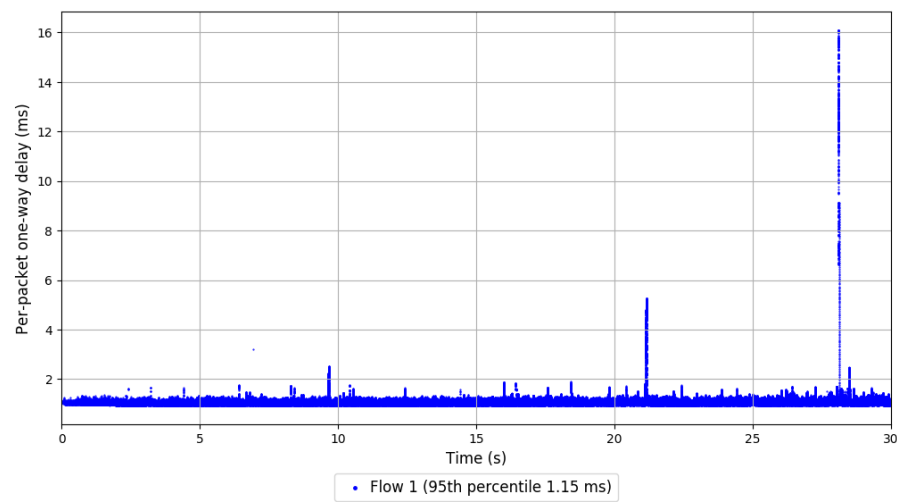
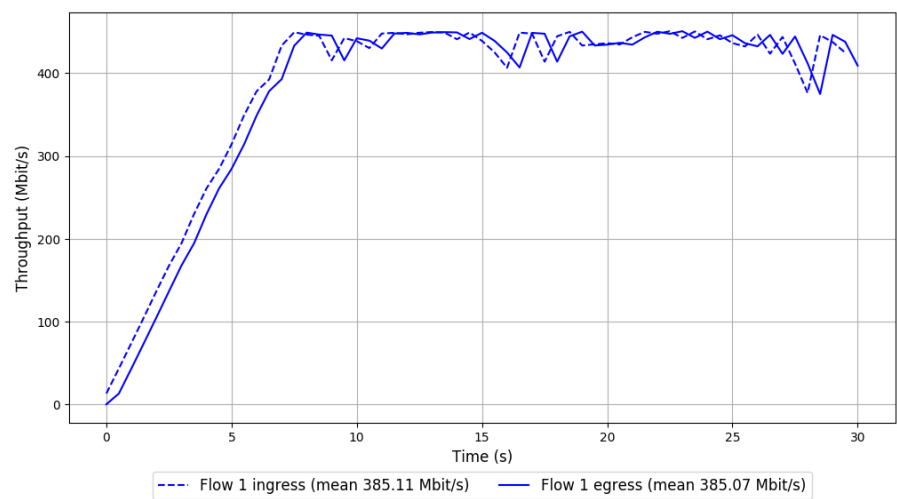


Run 5: Statistics of LEDBAT

Start at: 2018-05-25 03:13:22
End at: 2018-05-25 03:13:52
Local clock offset: 0.304 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-05-25 06:35:09
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.07 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 385.07 Mbit/s
95th percentile per-packet one-way delay: 1.154 ms
Loss rate: 0.07%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 03:37:39

End at: 2018-05-25 03:38:09

Local clock offset: 0.332 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-25 06:35:09

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.94 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.08%

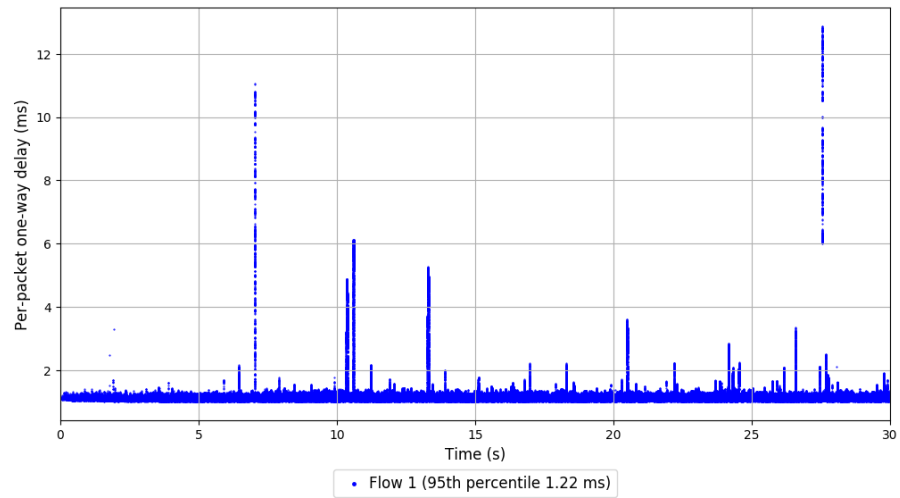
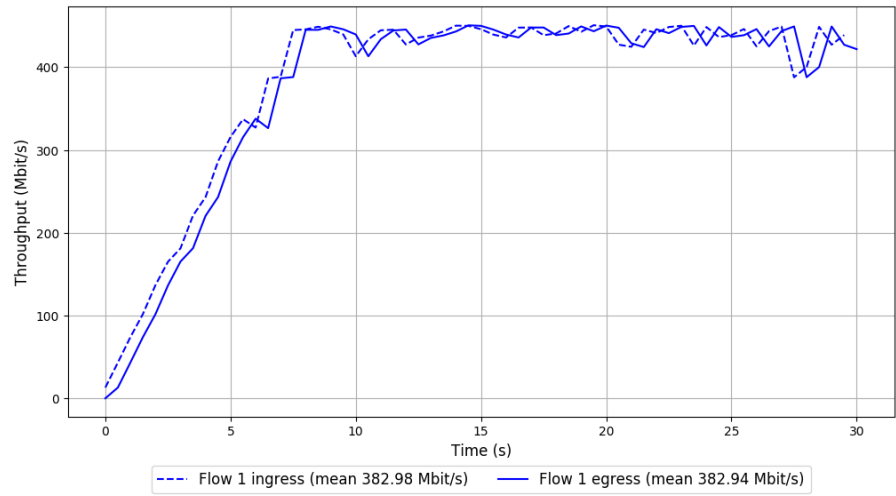
-- Flow 1:

Average throughput: 382.94 Mbit/s

95th percentile per-packet one-way delay: 1.217 ms

Loss rate: 0.08%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 04:02:12

End at: 2018-05-25 04:02:42

Local clock offset: 0.344 ms

Remote clock offset: 0.141 ms

Below is generated by plot.py at 2018-05-25 06:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.82 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.07%

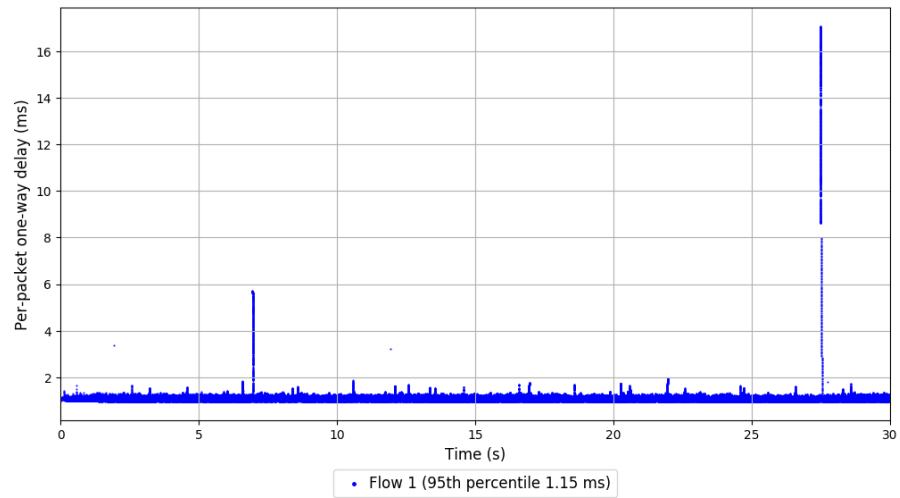
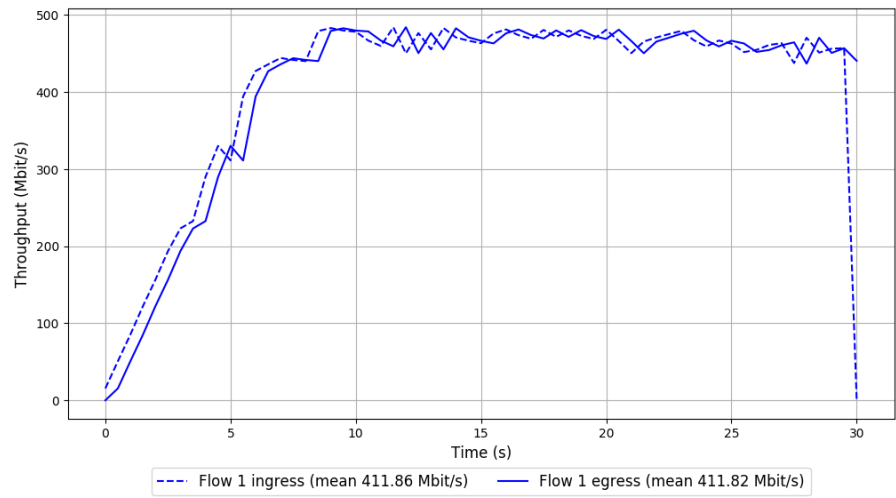
-- Flow 1:

Average throughput: 411.82 Mbit/s

95th percentile per-packet one-way delay: 1.153 ms

Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 04:26:54

End at: 2018-05-25 04:27:24

Local clock offset: 0.41 ms

Remote clock offset: 0.045 ms

Below is generated by plot.py at 2018-05-25 06:37:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 391.69 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.08%

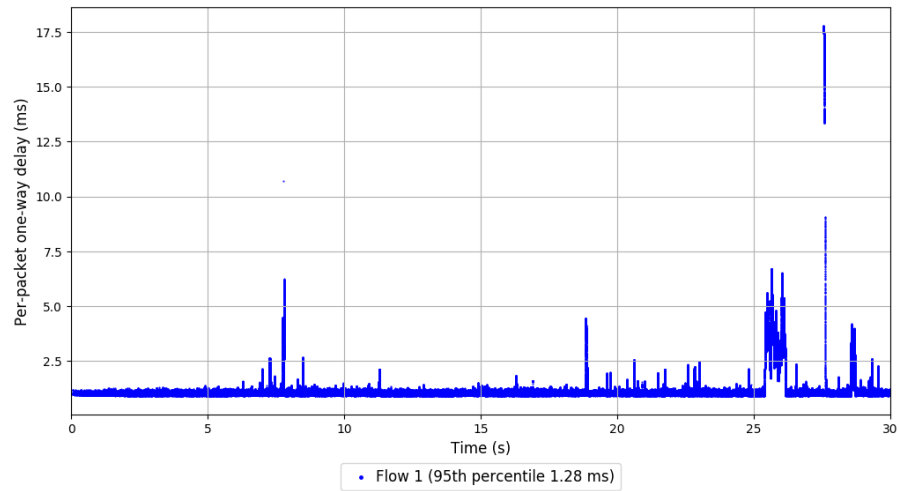
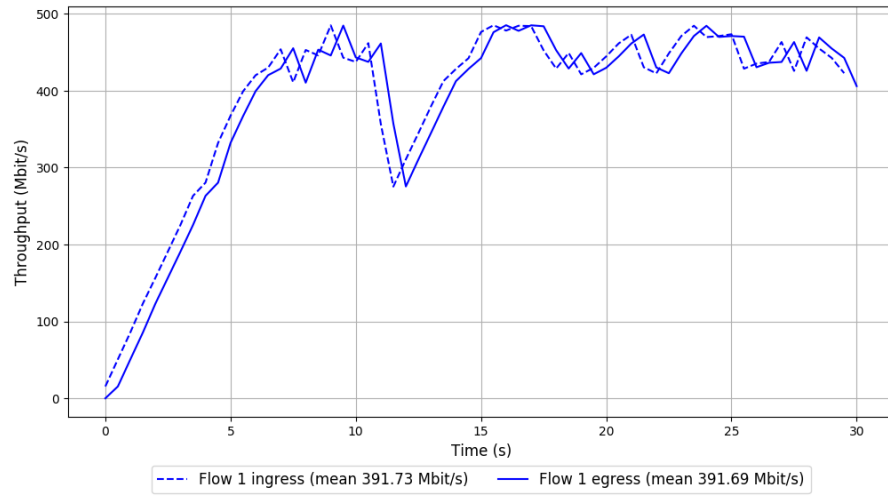
-- Flow 1:

Average throughput: 391.69 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.08%

Run 8: Report of LEDBAT — Data Link

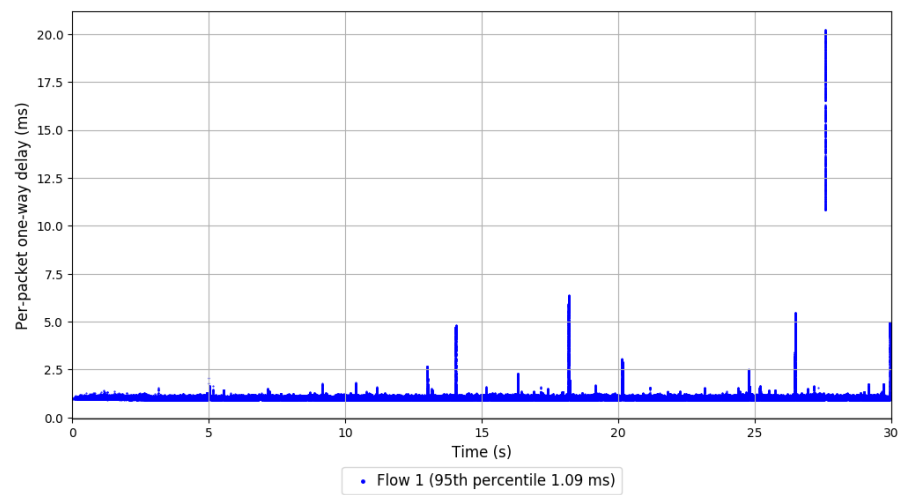
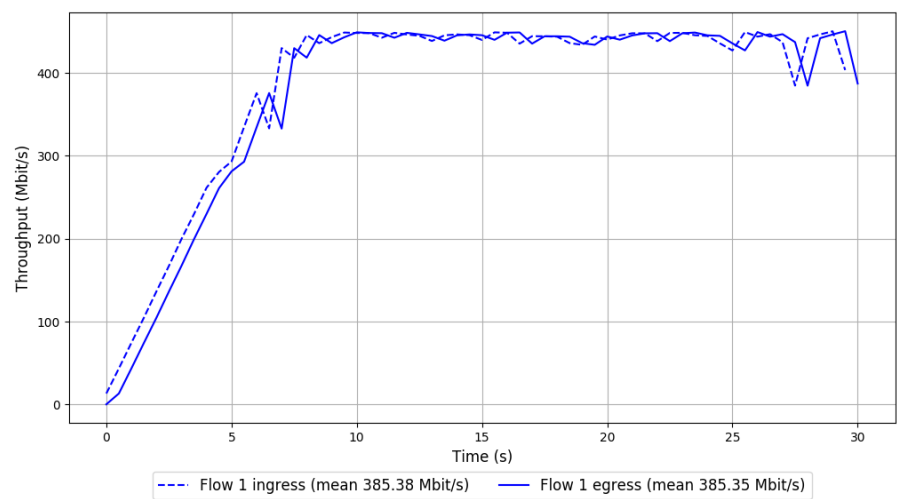


Run 9: Statistics of LEDBAT

Start at: 2018-05-25 04:51:05
End at: 2018-05-25 04:51:35
Local clock offset: 0.214 ms
Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-05-25 06:37:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 385.35 Mbit/s
95th percentile per-packet one-way delay: 1.087 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 385.35 Mbit/s
95th percentile per-packet one-way delay: 1.087 ms
Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 05:15:35

End at: 2018-05-25 05:16:05

Local clock offset: 0.372 ms

Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-05-25 06:38:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 386.84 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.07%

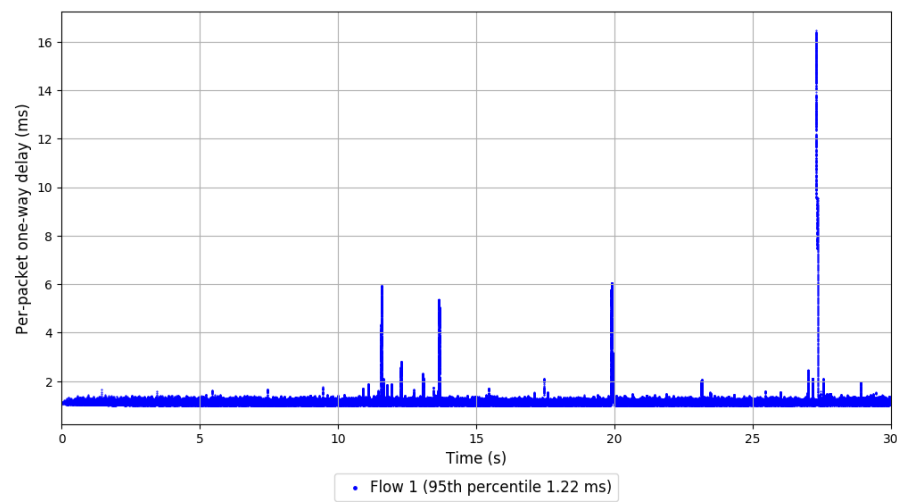
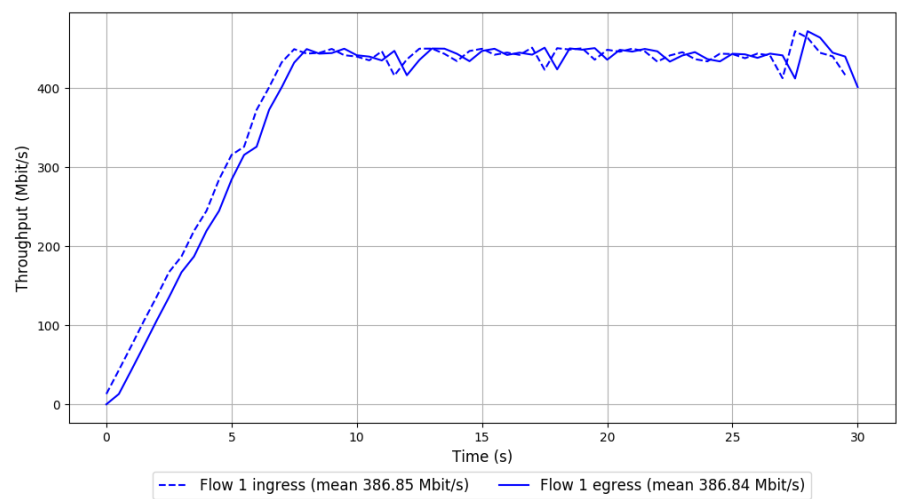
-- Flow 1:

Average throughput: 386.84 Mbit/s

95th percentile per-packet one-way delay: 1.216 ms

Loss rate: 0.07%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 01:36:40

End at: 2018-05-25 01:37:10

Local clock offset: 1.48 ms

Remote clock offset: 0.459 ms

Below is generated by plot.py at 2018-05-25 06:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 861.83 Mbit/s

95th percentile per-packet one-way delay: 40.319 ms

Loss rate: 2.20%

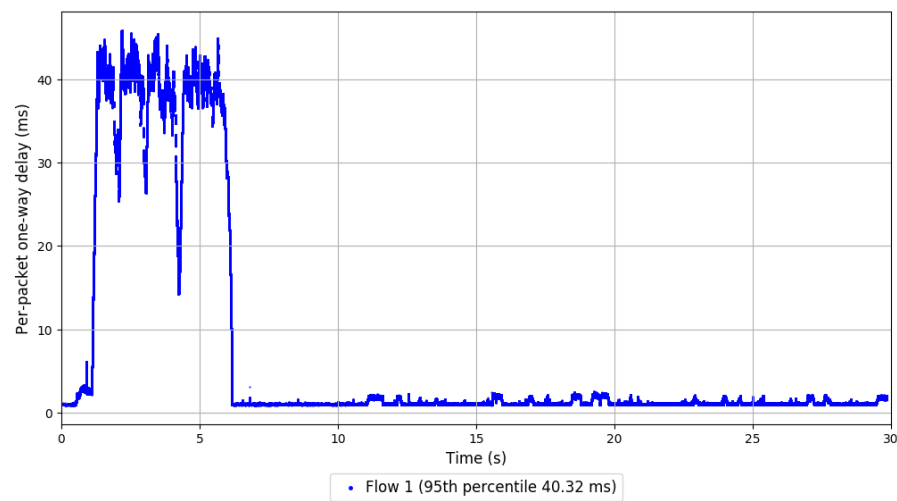
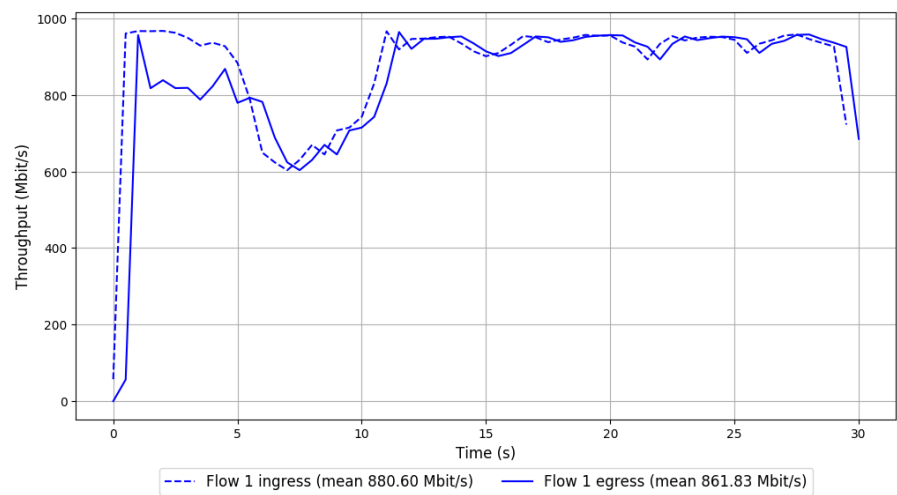
-- Flow 1:

Average throughput: 861.83 Mbit/s

95th percentile per-packet one-way delay: 40.319 ms

Loss rate: 2.20%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 02:01:18

End at: 2018-05-25 02:01:48

Local clock offset: 1.505 ms

Remote clock offset: 1.096 ms

Below is generated by plot.py at 2018-05-25 06:44:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 620.66 Mbit/s

95th percentile per-packet one-way delay: 47.258 ms

Loss rate: 0.80%

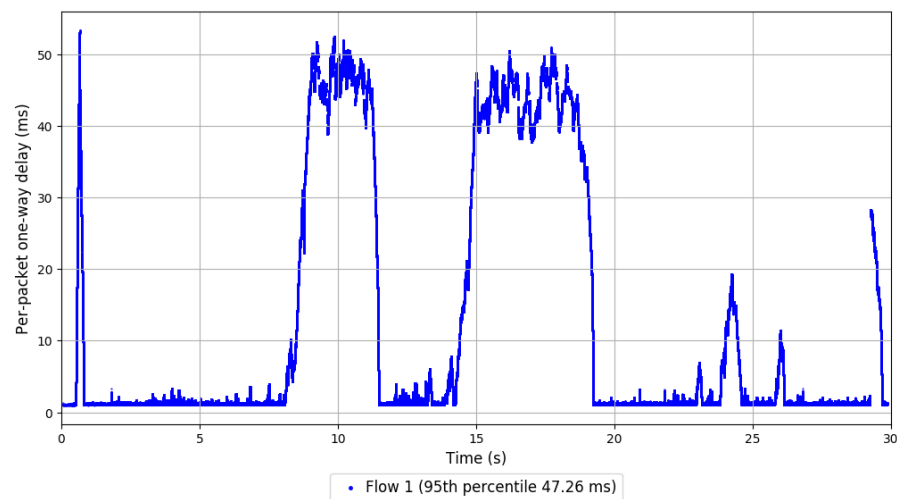
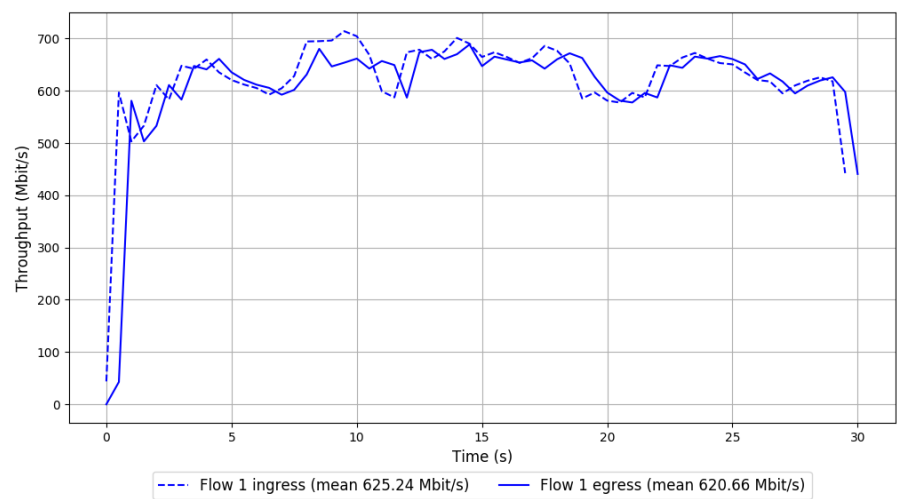
-- Flow 1:

Average throughput: 620.66 Mbit/s

95th percentile per-packet one-way delay: 47.258 ms

Loss rate: 0.80%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 02:25:46

End at: 2018-05-25 02:26:16

Local clock offset: 0.422 ms

Remote clock offset: 1.552 ms

Below is generated by plot.py at 2018-05-25 06:46:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 922.20 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.07%

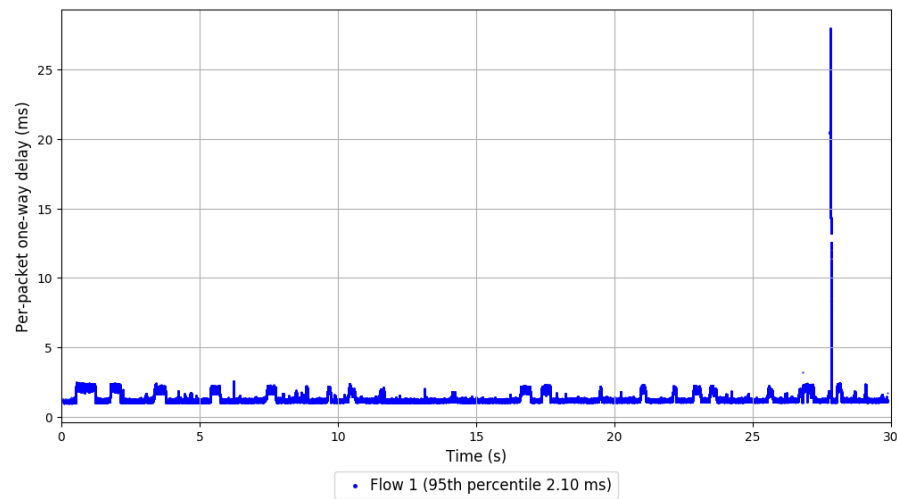
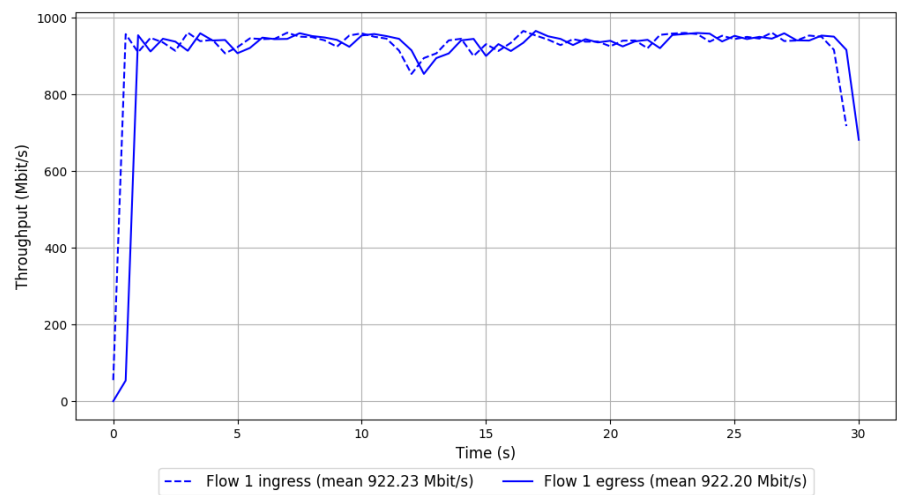
-- Flow 1:

Average throughput: 922.20 Mbit/s

95th percentile per-packet one-way delay: 2.097 ms

Loss rate: 0.07%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 02:50:33

End at: 2018-05-25 02:51:03

Local clock offset: 0.029 ms

Remote clock offset: 0.121 ms

Below is generated by plot.py at 2018-05-25 06:46:49

Datalink statistics

-- Total of 1 flow:

Average throughput: 805.38 Mbit/s

95th percentile per-packet one-way delay: 42.539 ms

Loss rate: 5.58%

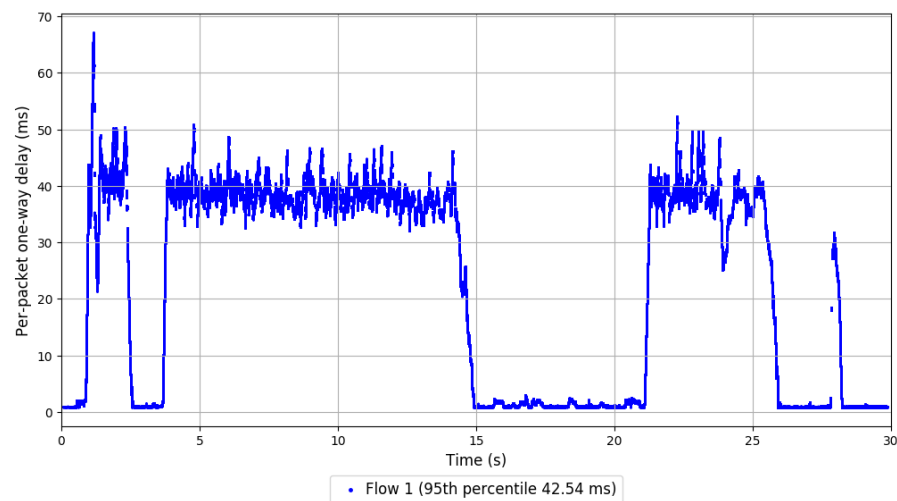
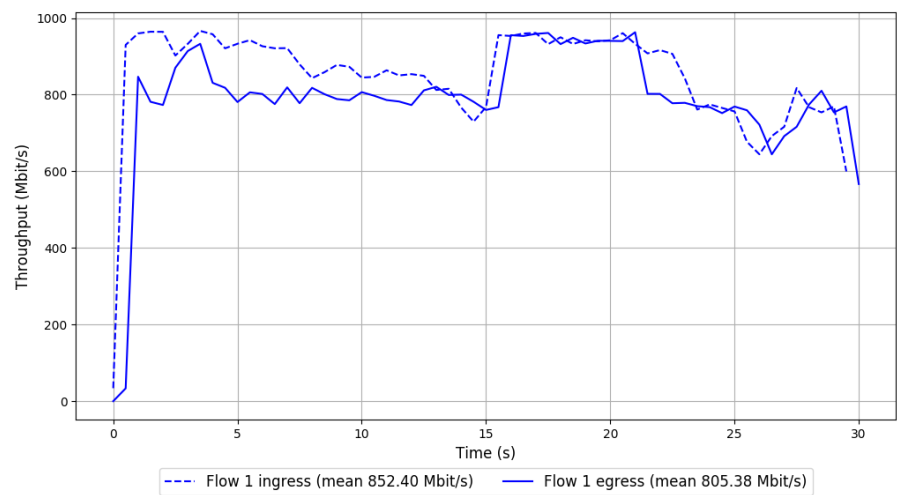
-- Flow 1:

Average throughput: 805.38 Mbit/s

95th percentile per-packet one-way delay: 42.539 ms

Loss rate: 5.58%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 03:14:55

End at: 2018-05-25 03:15:25

Local clock offset: 0.311 ms

Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-05-25 06:47:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 777.78 Mbit/s

95th percentile per-packet one-way delay: 43.501 ms

Loss rate: 3.81%

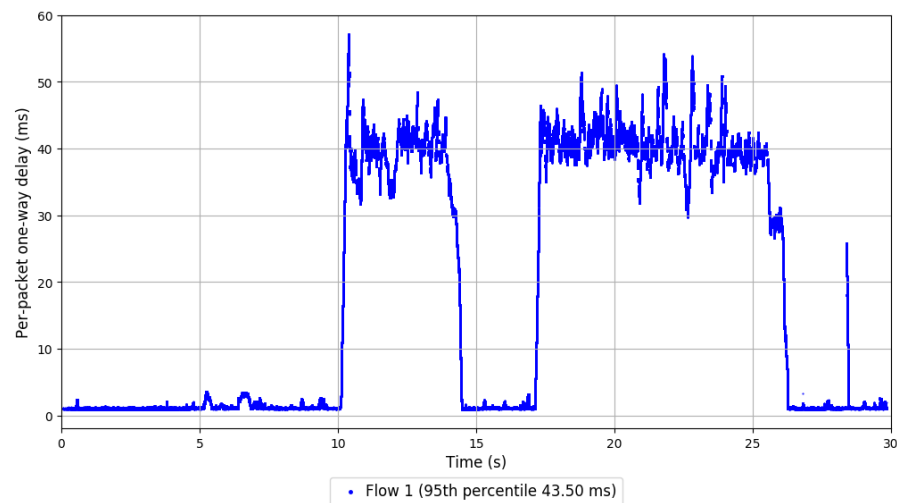
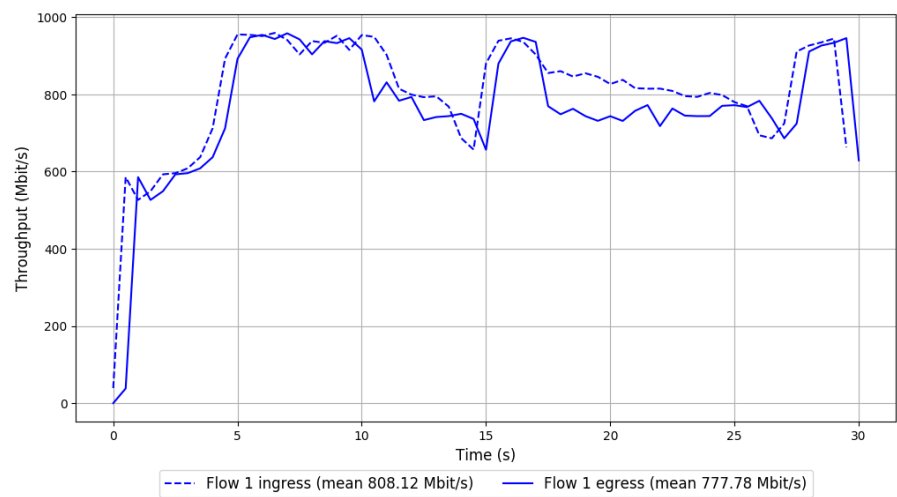
-- Flow 1:

Average throughput: 777.78 Mbit/s

95th percentile per-packet one-way delay: 43.501 ms

Loss rate: 3.81%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 03:39:14

End at: 2018-05-25 03:39:44

Local clock offset: 0.33 ms

Remote clock offset: 0.021 ms

Below is generated by plot.py at 2018-05-25 06:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 836.09 Mbit/s

95th percentile per-packet one-way delay: 44.392 ms

Loss rate: 6.26%

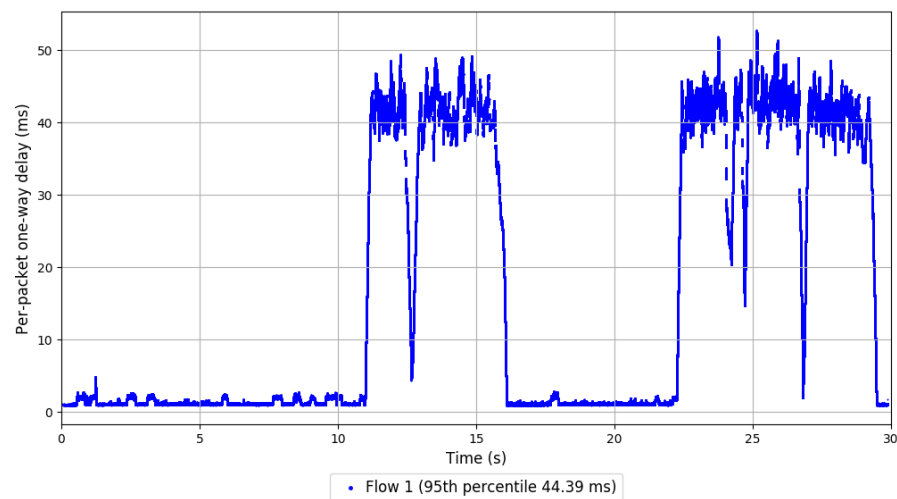
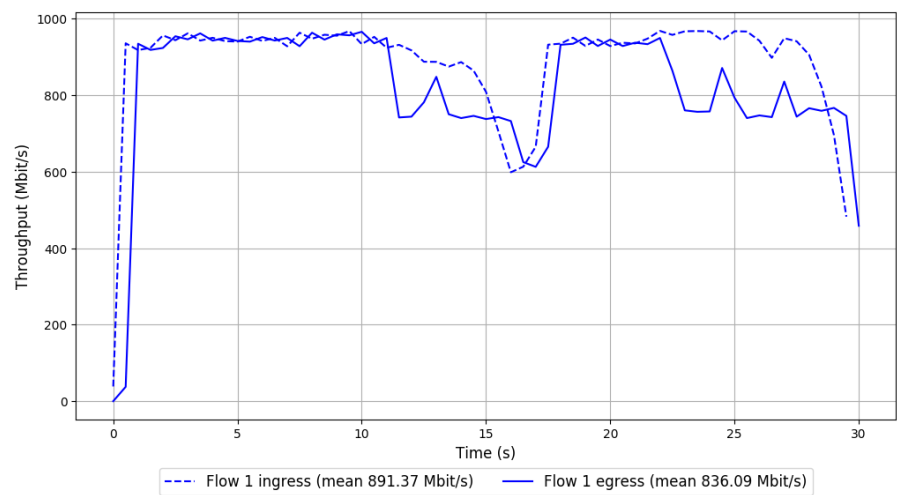
-- Flow 1:

Average throughput: 836.09 Mbit/s

95th percentile per-packet one-way delay: 44.392 ms

Loss rate: 6.26%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 04:03:50

End at: 2018-05-25 04:04:21

Local clock offset: 0.374 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-05-25 06:48:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 600.25 Mbit/s

95th percentile per-packet one-way delay: 43.392 ms

Loss rate: 0.33%

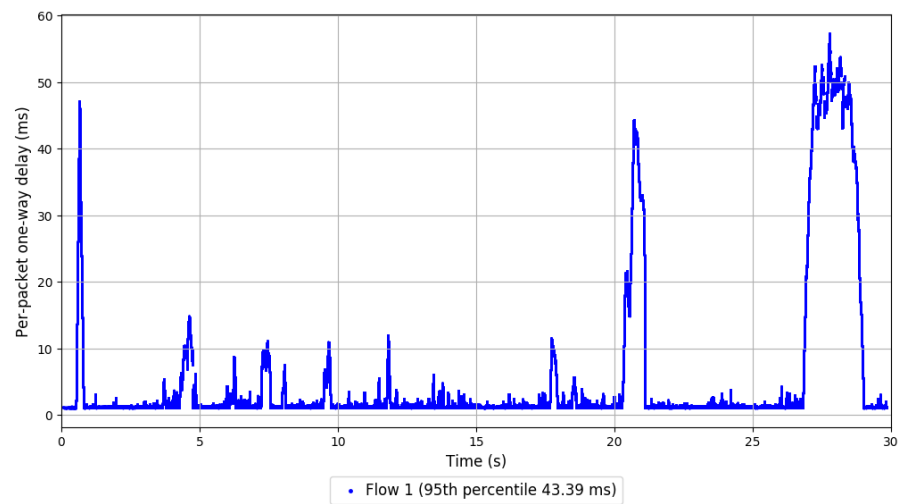
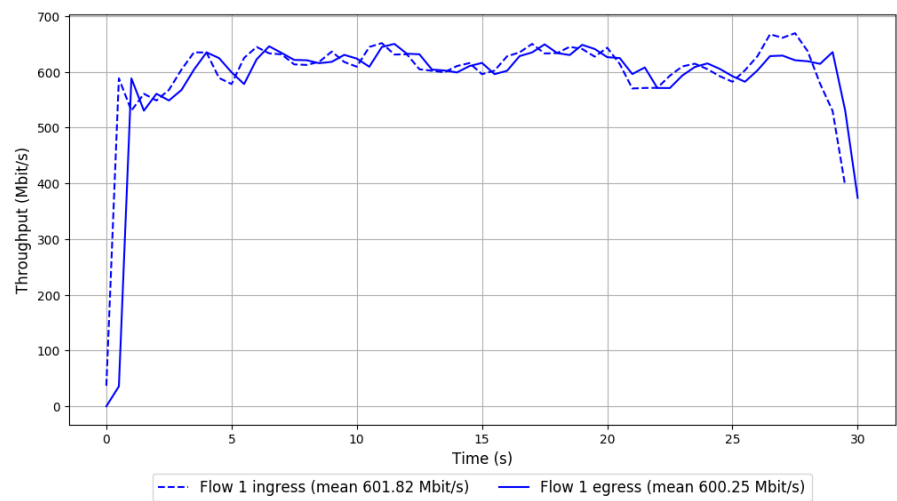
-- Flow 1:

Average throughput: 600.25 Mbit/s

95th percentile per-packet one-way delay: 43.392 ms

Loss rate: 0.33%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 04:28:27

End at: 2018-05-25 04:28:57

Local clock offset: 0.314 ms

Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-25 06:48:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 807.80 Mbit/s

95th percentile per-packet one-way delay: 43.489 ms

Loss rate: 8.58%

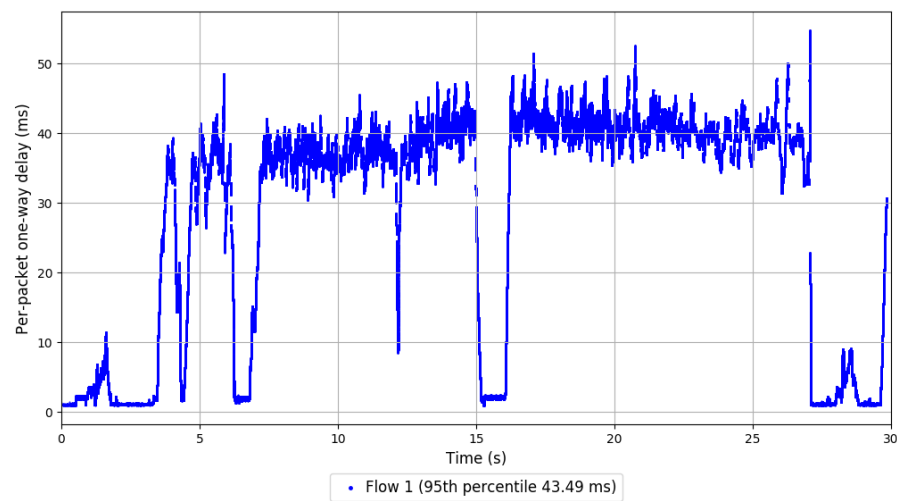
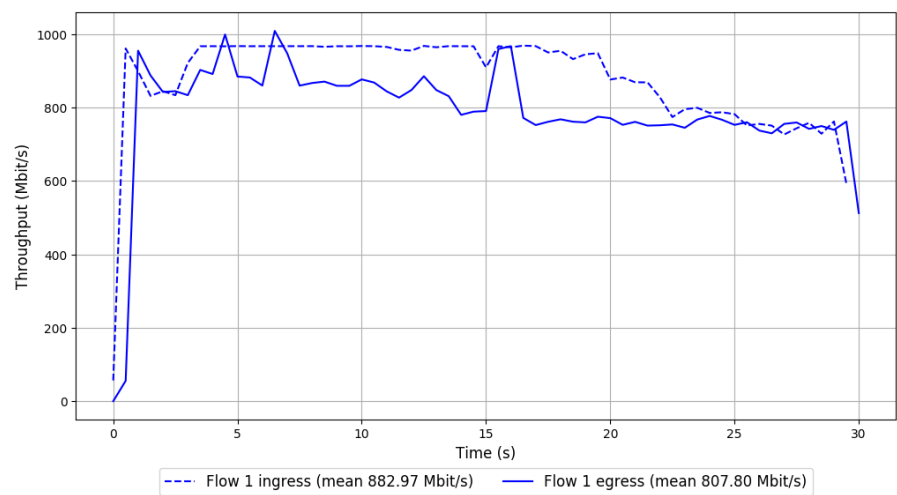
-- Flow 1:

Average throughput: 807.80 Mbit/s

95th percentile per-packet one-way delay: 43.489 ms

Loss rate: 8.58%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 04:52:38

End at: 2018-05-25 04:53:08

Local clock offset: 0.311 ms

Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-05-25 06:52:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 751.56 Mbit/s

95th percentile per-packet one-way delay: 43.350 ms

Loss rate: 5.85%

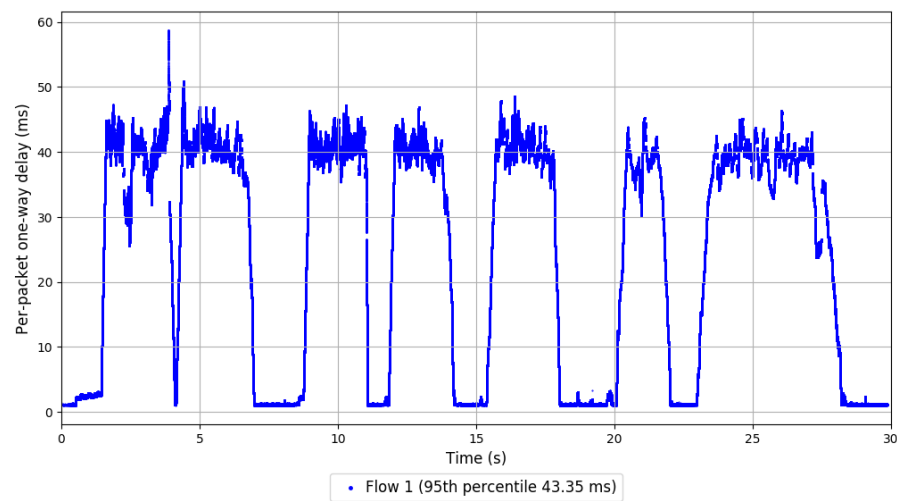
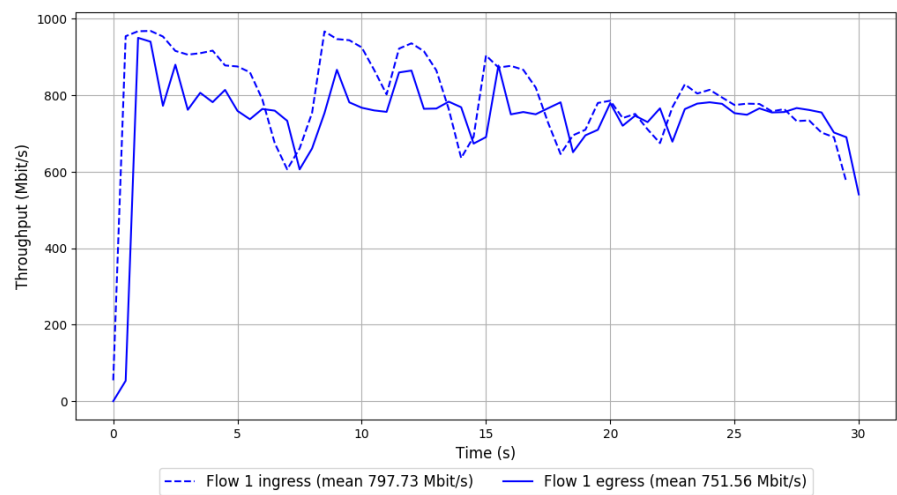
-- Flow 1:

Average throughput: 751.56 Mbit/s

95th percentile per-packet one-way delay: 43.350 ms

Loss rate: 5.85%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 05:17:08

End at: 2018-05-25 05:17:38

Local clock offset: 0.366 ms

Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-05-25 06:54:20

Datalink statistics

-- Total of 1 flow:

Average throughput: 749.33 Mbit/s

95th percentile per-packet one-way delay: 43.195 ms

Loss rate: 5.77%

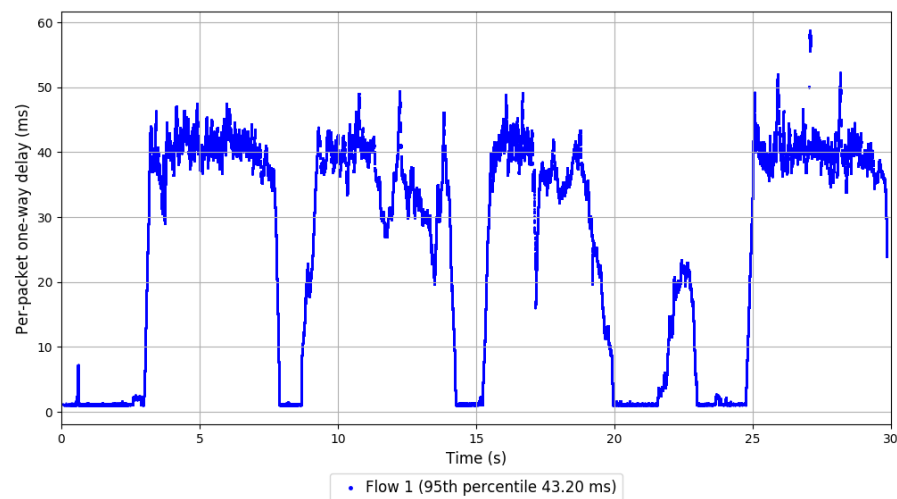
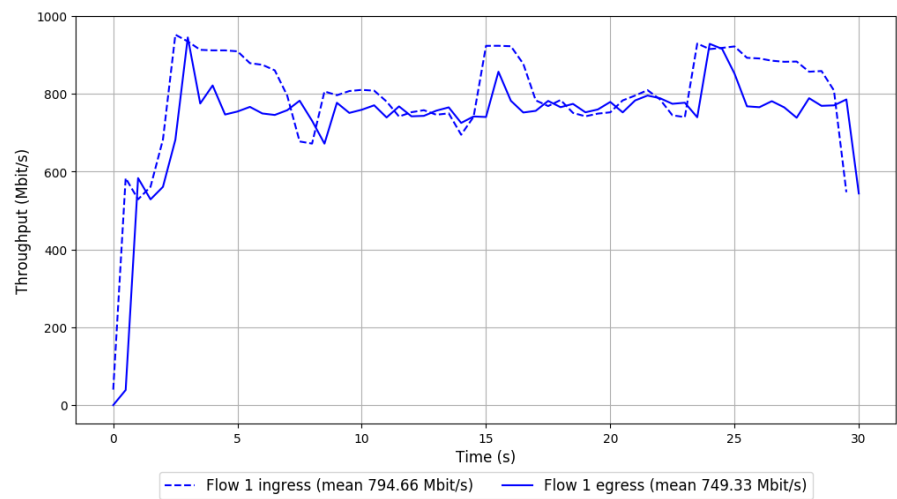
-- Flow 1:

Average throughput: 749.33 Mbit/s

95th percentile per-packet one-way delay: 43.195 ms

Loss rate: 5.77%

Run 10: Report of PCC-Allegro — Data Link

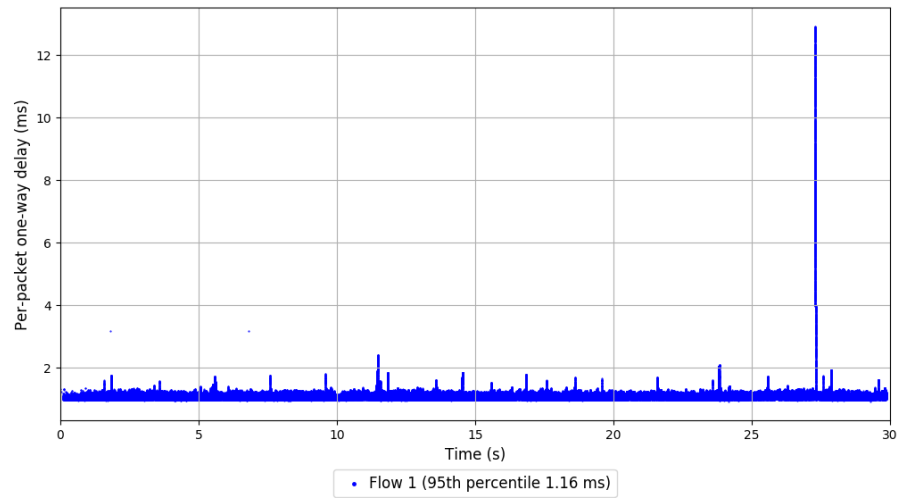
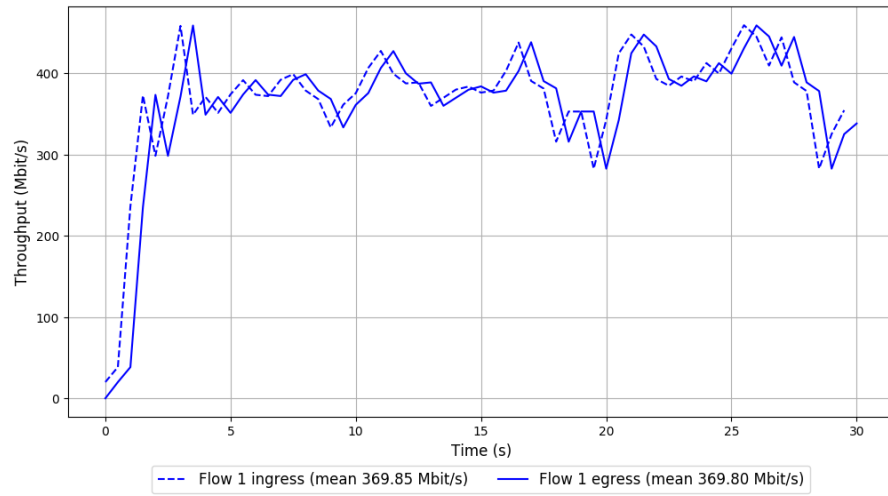


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 01:27:19
End at: 2018-05-25 01:27:49
Local clock offset: 1.468 ms
Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2018-05-25 06:54:20
# Datalink statistics
-- Total of 1 flow:
Average throughput: 369.80 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 369.80 Mbit/s
95th percentile per-packet one-way delay: 1.155 ms
Loss rate: 0.08%
```

Run 1: Report of PCC-Expr — Data Link

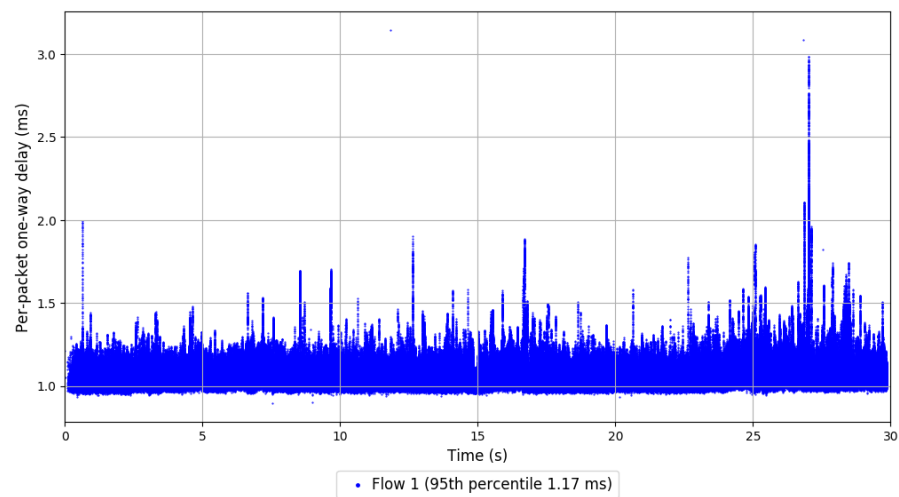
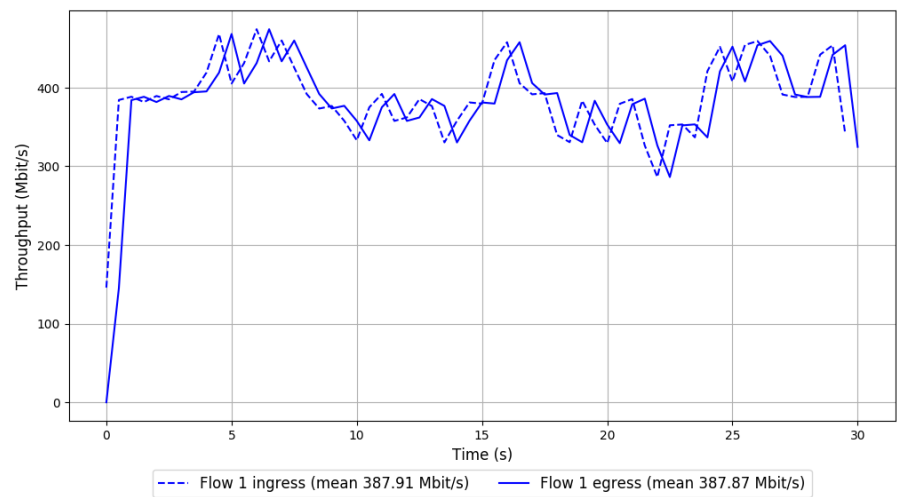


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 01:51:52
End at: 2018-05-25 01:52:22
Local clock offset: 1.723 ms
Remote clock offset: 0.888 ms

# Below is generated by plot.py at 2018-05-25 06:55:18
# Datalink statistics
-- Total of 1 flow:
Average throughput: 387.87 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 387.87 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.08%
```

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 02:16:29

End at: 2018-05-25 02:16:59

Local clock offset: 0.614 ms

Remote clock offset: 1.353 ms

Below is generated by plot.py at 2018-05-25 06:55:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 361.38 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.06%

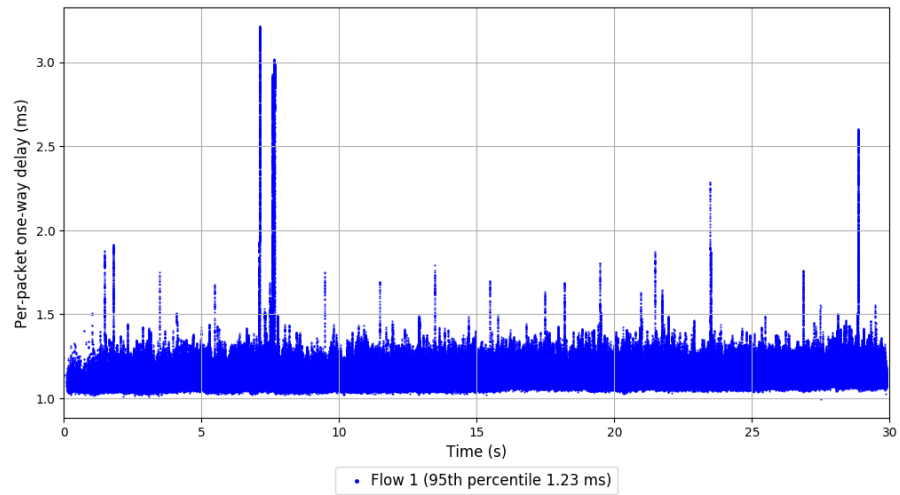
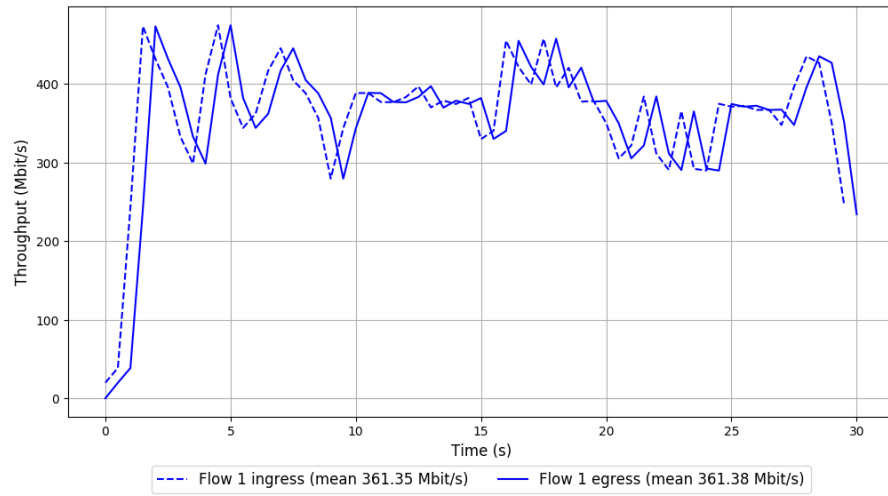
-- Flow 1:

Average throughput: 361.38 Mbit/s

95th percentile per-packet one-way delay: 1.234 ms

Loss rate: 0.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 02:41:16

End at: 2018-05-25 02:41:46

Local clock offset: 0.227 ms

Remote clock offset: 0.532 ms

Below is generated by plot.py at 2018-05-25 06:56:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 369.68 Mbit/s

95th percentile per-packet one-way delay: 38.275 ms

Loss rate: 0.22%

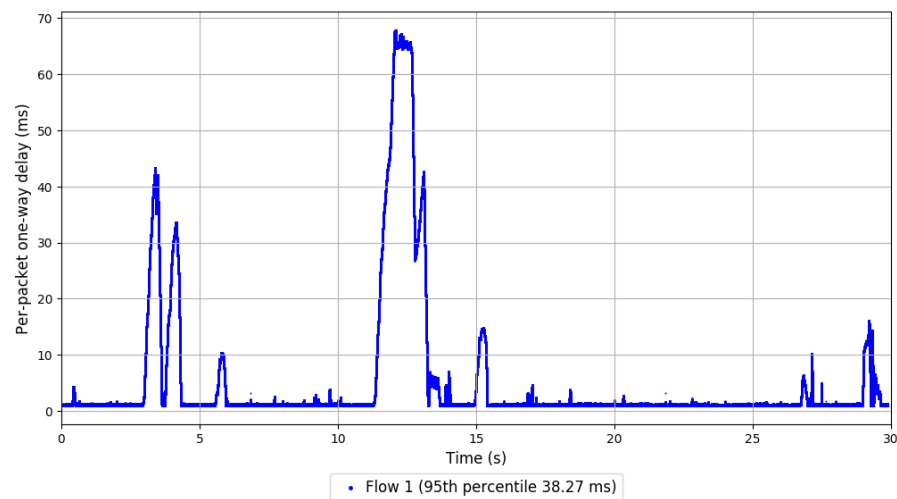
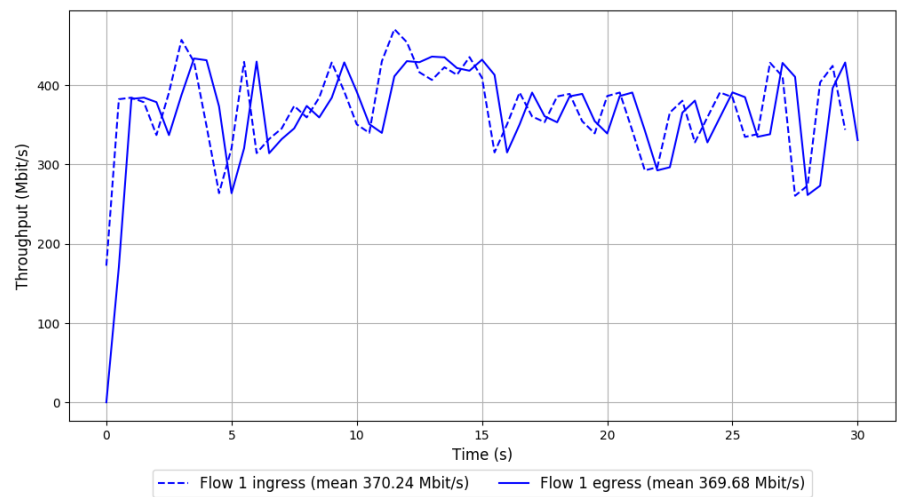
-- Flow 1:

Average throughput: 369.68 Mbit/s

95th percentile per-packet one-way delay: 38.275 ms

Loss rate: 0.22%

Run 4: Report of PCC-Expr — Data Link

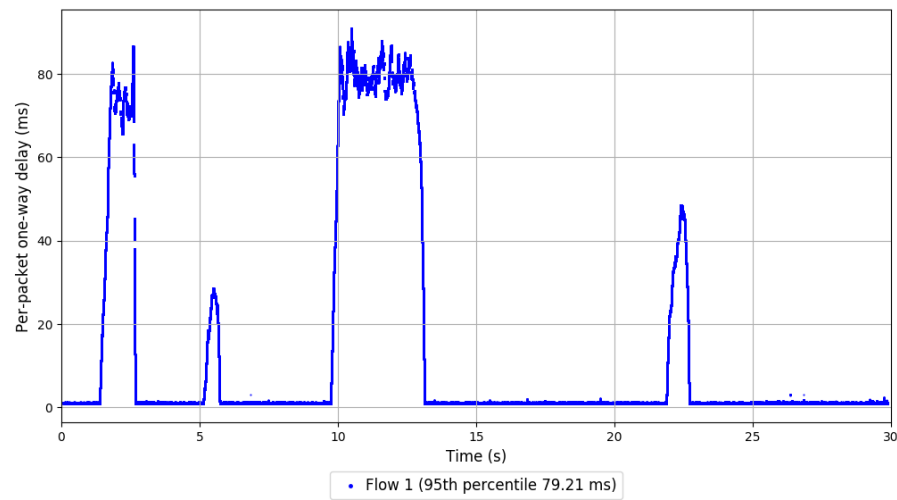
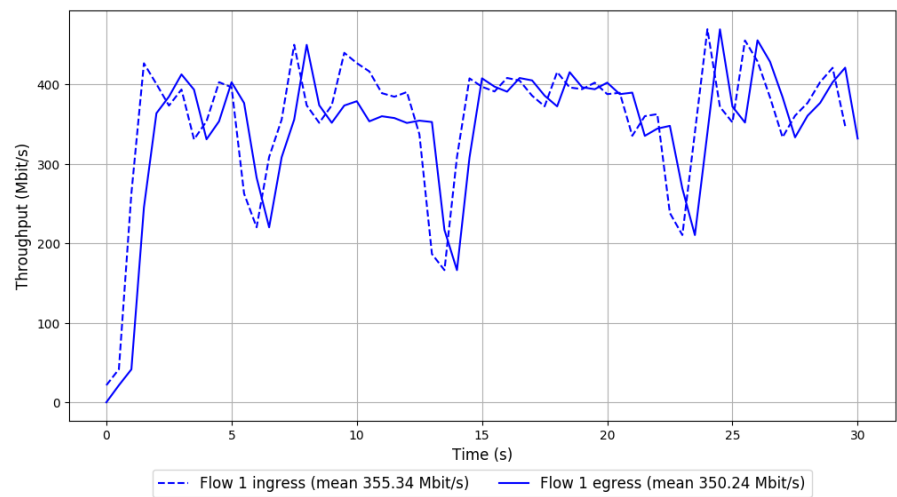


Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 03:05:33
End at: 2018-05-25 03:06:03
Local clock offset: 0.231 ms
Remote clock offset: -0.299 ms

Below is generated by plot.py at 2018-05-25 06:56:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.24 Mbit/s
95th percentile per-packet one-way delay: 79.206 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 350.24 Mbit/s
95th percentile per-packet one-way delay: 79.206 ms
Loss rate: 1.50%

Run 5: Report of PCC-Expr — Data Link

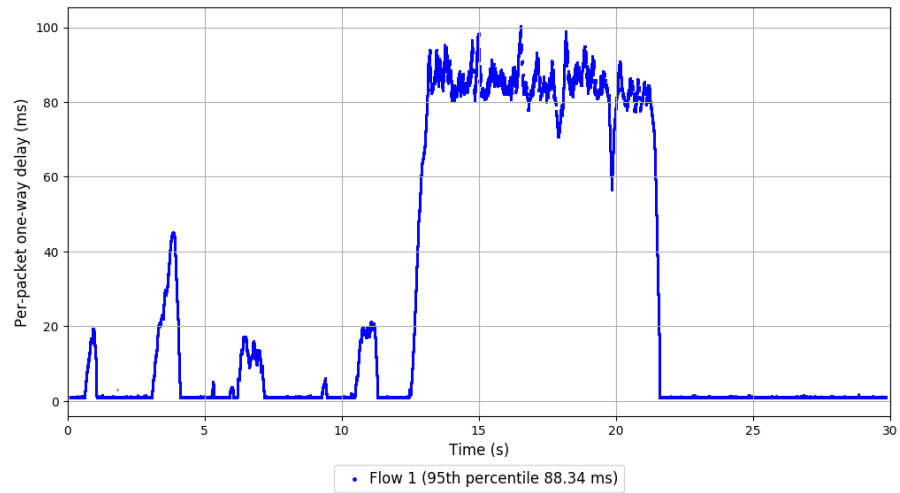
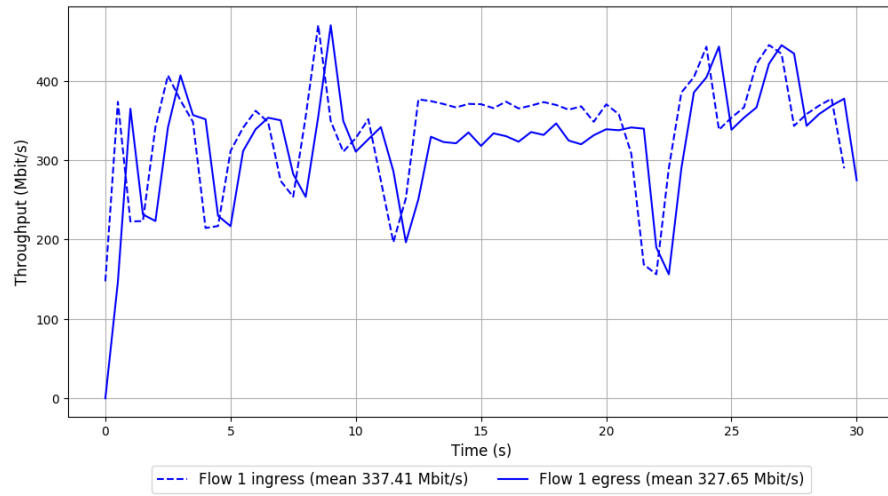


Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 03:30:00
End at: 2018-05-25 03:30:30
Local clock offset: 0.234 ms
Remote clock offset: -0.034 ms

Below is generated by plot.py at 2018-05-25 06:56:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 327.65 Mbit/s
95th percentile per-packet one-way delay: 88.340 ms
Loss rate: 2.96%
-- Flow 1:
Average throughput: 327.65 Mbit/s
95th percentile per-packet one-way delay: 88.340 ms
Loss rate: 2.96%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 03:54:37

End at: 2018-05-25 03:55:07

Local clock offset: 0.212 ms

Remote clock offset: 0.092 ms

Below is generated by plot.py at 2018-05-25 07:01:37

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.37 Mbit/s

95th percentile per-packet one-way delay: 81.526 ms

Loss rate: 2.54%

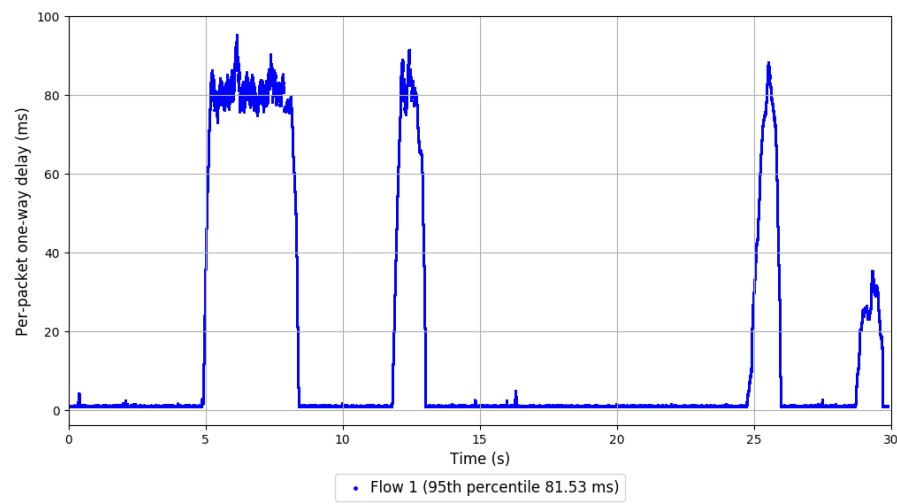
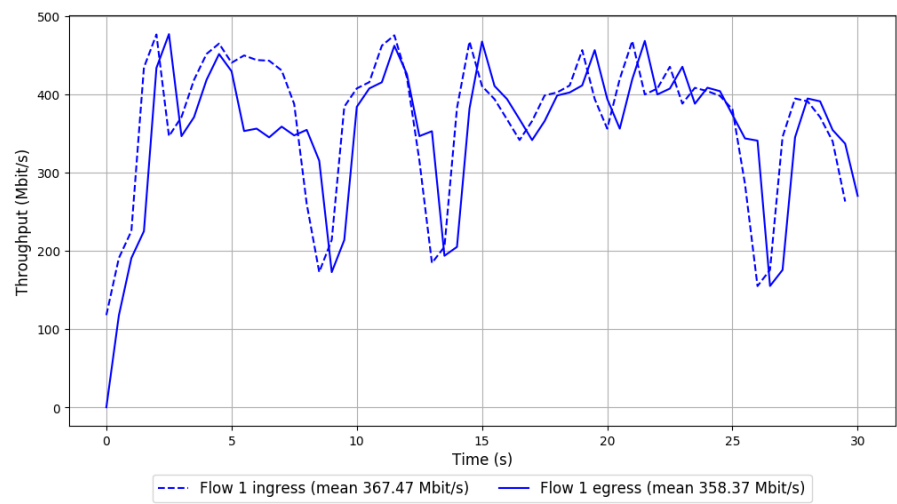
-- Flow 1:

Average throughput: 358.37 Mbit/s

95th percentile per-packet one-way delay: 81.526 ms

Loss rate: 2.54%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 04:19:14

End at: 2018-05-25 04:19:44

Local clock offset: 0.413 ms

Remote clock offset: 0.063 ms

Below is generated by plot.py at 2018-05-25 07:02:16

Datalink statistics

-- Total of 1 flow:

Average throughput: 325.83 Mbit/s

95th percentile per-packet one-way delay: 83.453 ms

Loss rate: 5.12%

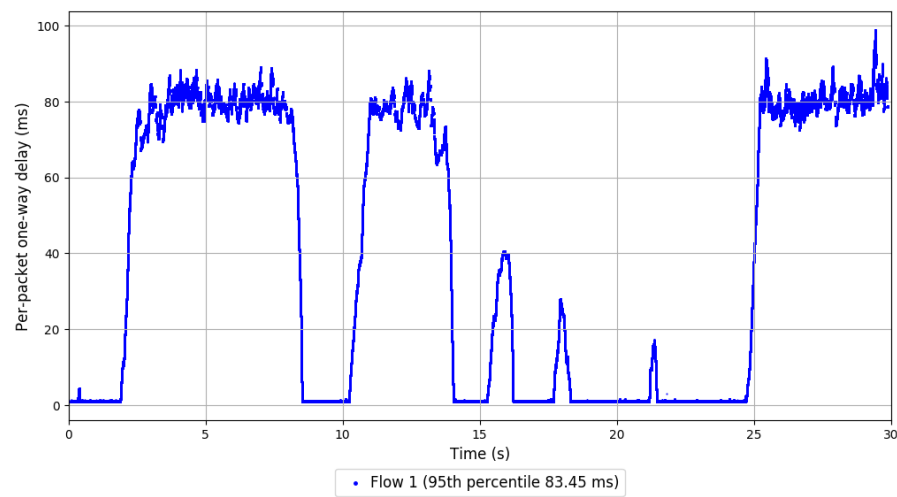
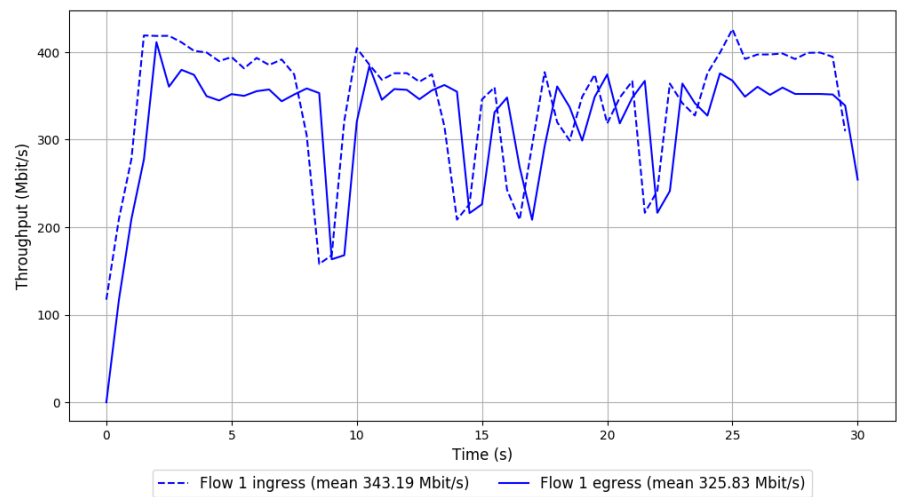
-- Flow 1:

Average throughput: 325.83 Mbit/s

95th percentile per-packet one-way delay: 83.453 ms

Loss rate: 5.12%

Run 8: Report of PCC-Expr — Data Link

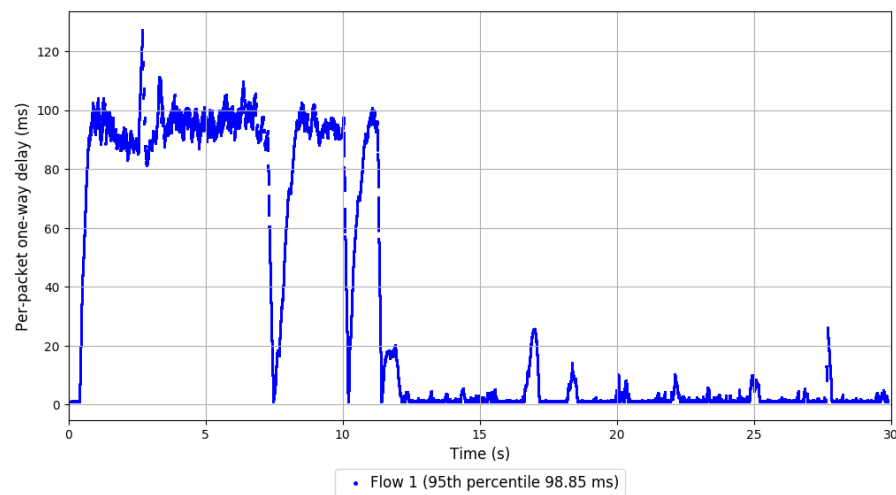
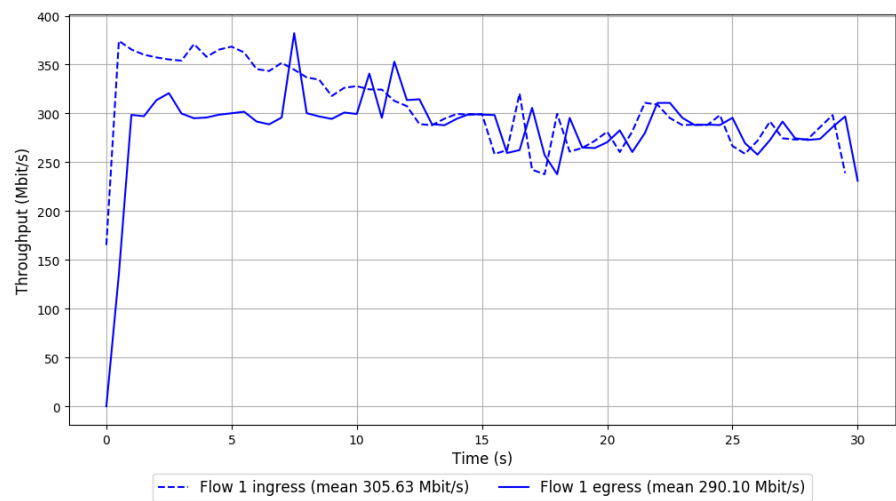


Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 04:43:29
End at: 2018-05-25 04:43:59
Local clock offset: 0.356 ms
Remote clock offset: -0.085 ms

Below is generated by plot.py at 2018-05-25 07:02:16
Datalink statistics
-- Total of 1 flow:
Average throughput: 290.10 Mbit/s
95th percentile per-packet one-way delay: 98.849 ms
Loss rate: 5.14%
-- Flow 1:
Average throughput: 290.10 Mbit/s
95th percentile per-packet one-way delay: 98.849 ms
Loss rate: 5.14%

Run 9: Report of PCC-Expr — Data Link

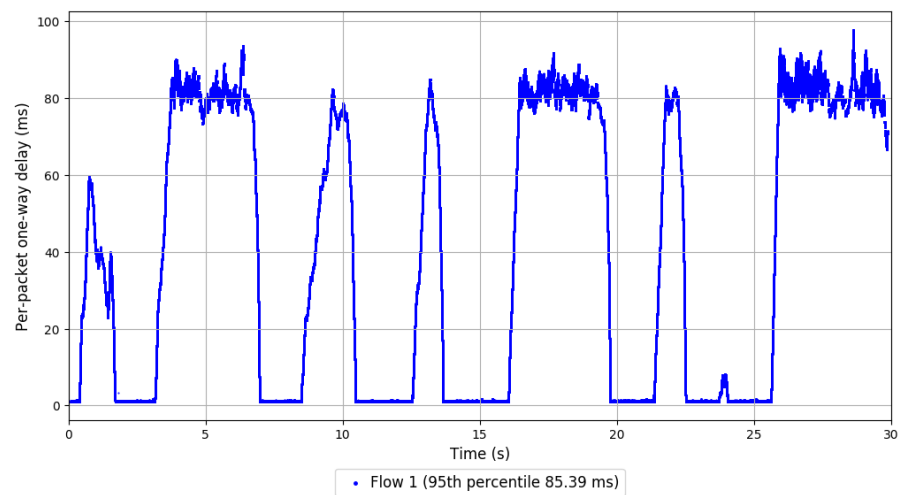
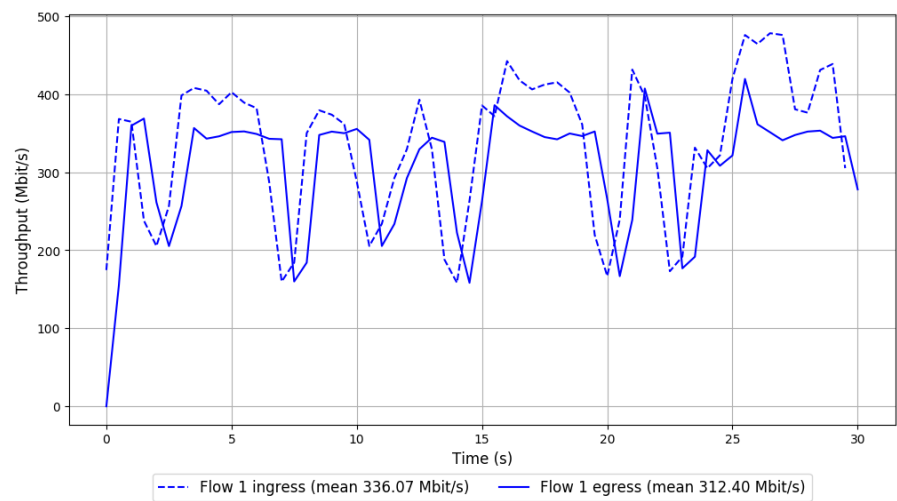


Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 05:08:01
End at: 2018-05-25 05:08:31
Local clock offset: 0.341 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 312.40 Mbit/s
95th percentile per-packet one-way delay: 85.394 ms
Loss rate: 7.10%
-- Flow 1:
Average throughput: 312.40 Mbit/s
95th percentile per-packet one-way delay: 85.394 ms
Loss rate: 7.10%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 01:47:40

End at: 2018-05-25 01:48:10

Local clock offset: 1.67 ms

Remote clock offset: 0.728 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.07%

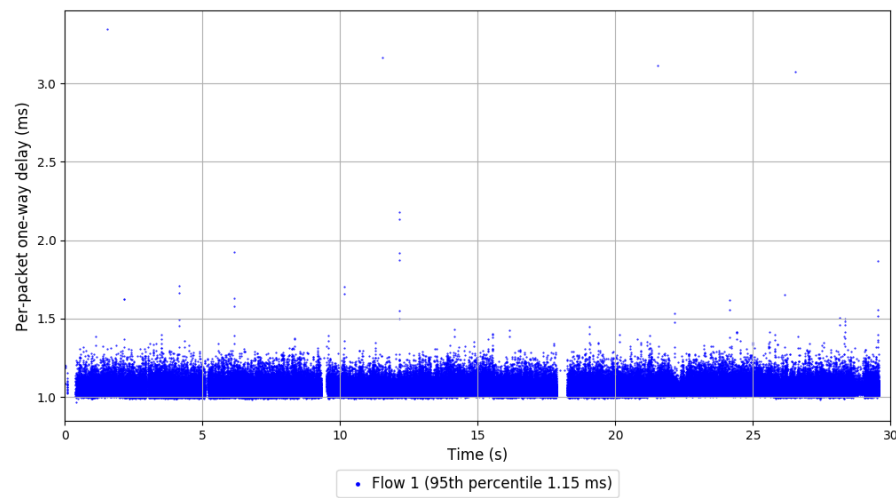
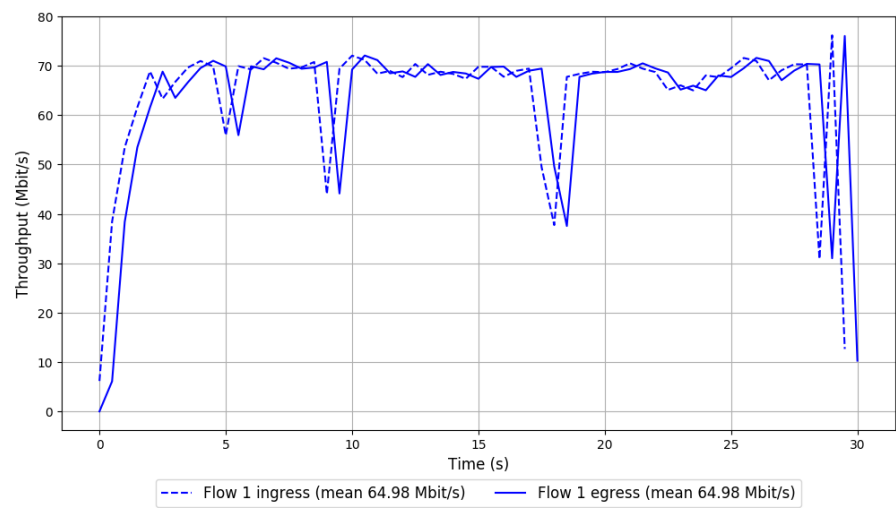
-- Flow 1:

Average throughput: 64.98 Mbit/s

95th percentile per-packet one-way delay: 1.147 ms

Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 02:12:06

End at: 2018-05-25 02:12:36

Local clock offset: 0.64 ms

Remote clock offset: 1.259 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.07%

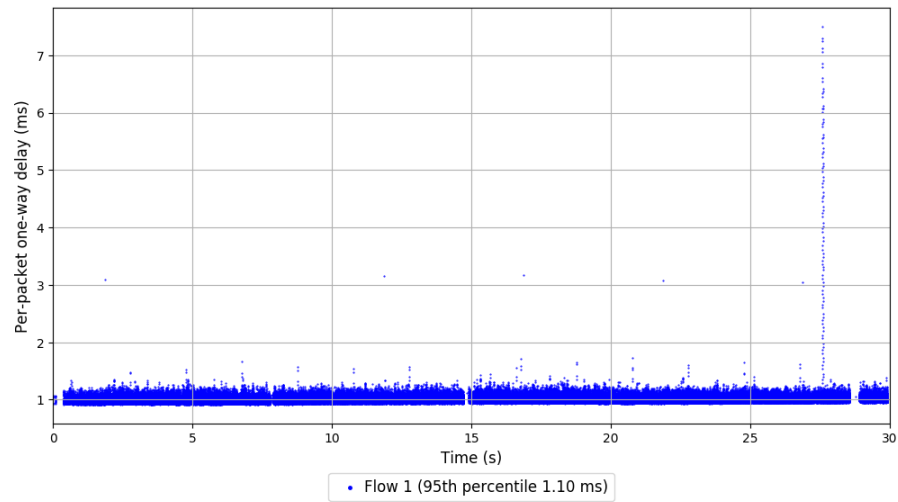
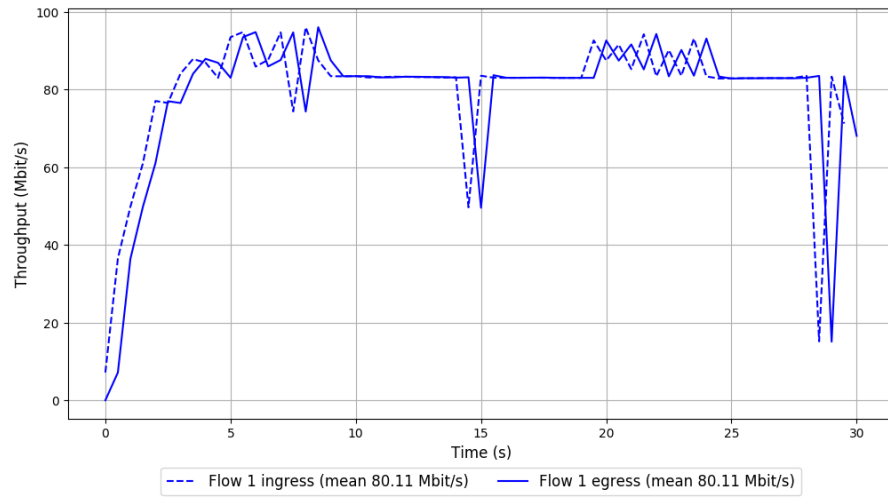
-- Flow 1:

Average throughput: 80.11 Mbit/s

95th percentile per-packet one-way delay: 1.104 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 02:36:59

End at: 2018-05-25 02:37:29

Local clock offset: 0.187 ms

Remote clock offset: 1.07 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.08%

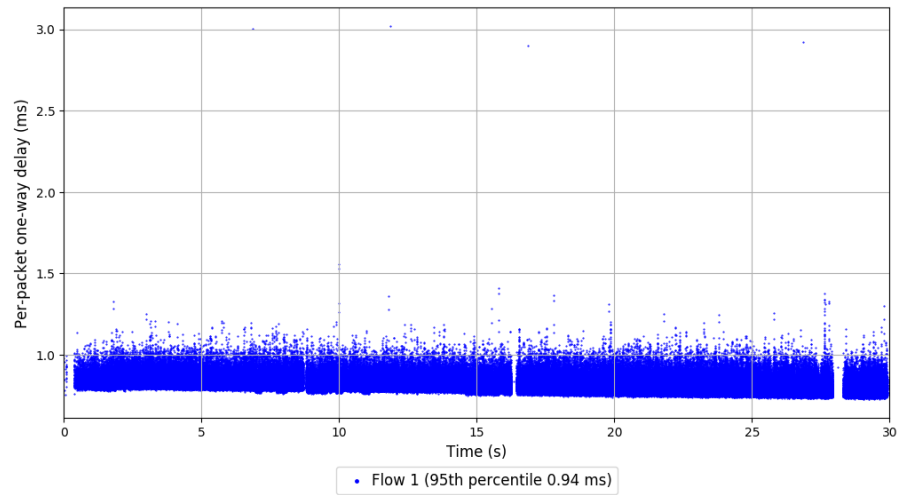
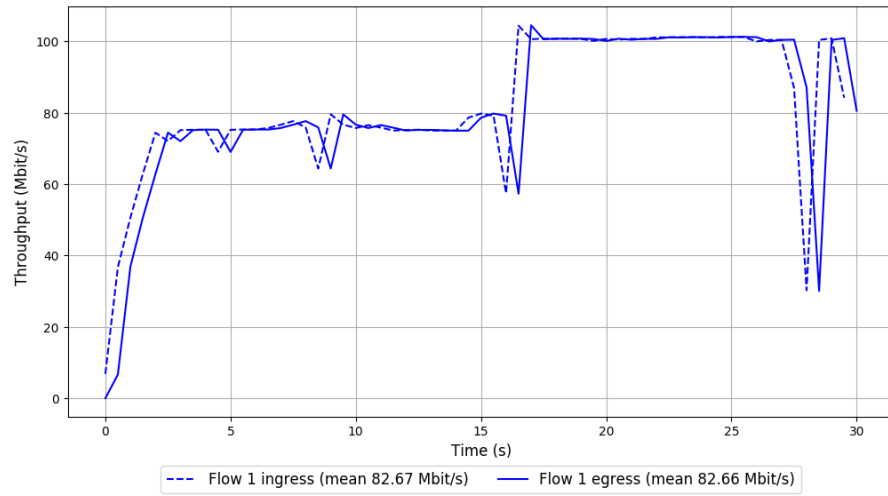
-- Flow 1:

Average throughput: 82.66 Mbit/s

95th percentile per-packet one-way delay: 0.937 ms

Loss rate: 0.08%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 03:01:22

End at: 2018-05-25 03:01:52

Local clock offset: 0.115 ms

Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.07%

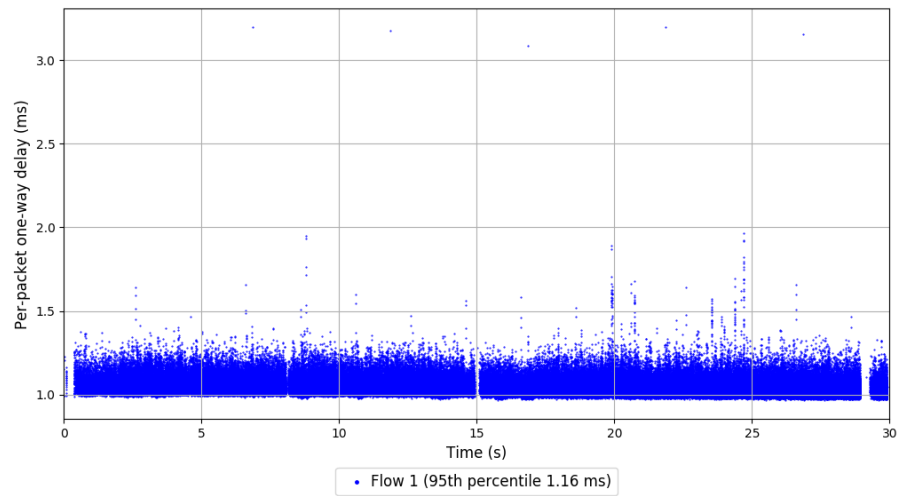
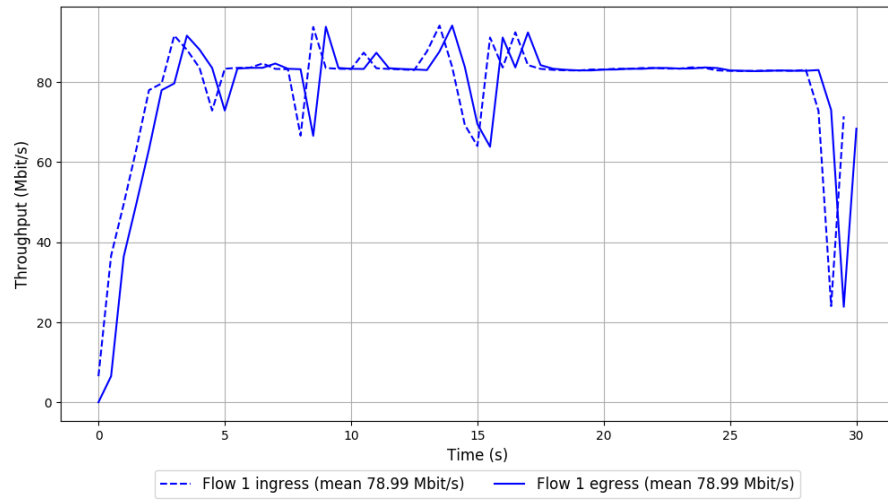
-- Flow 1:

Average throughput: 78.99 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.07%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 03:25:41

End at: 2018-05-25 03:26:11

Local clock offset: 0.322 ms

Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.07%

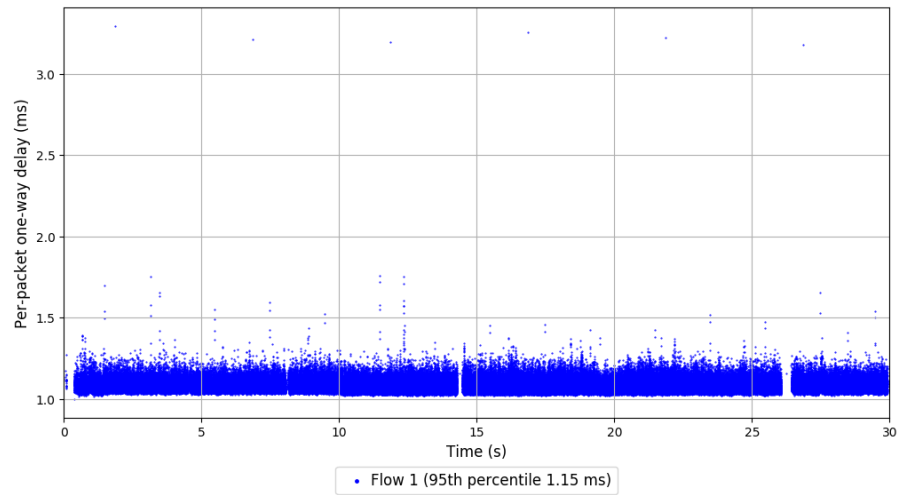
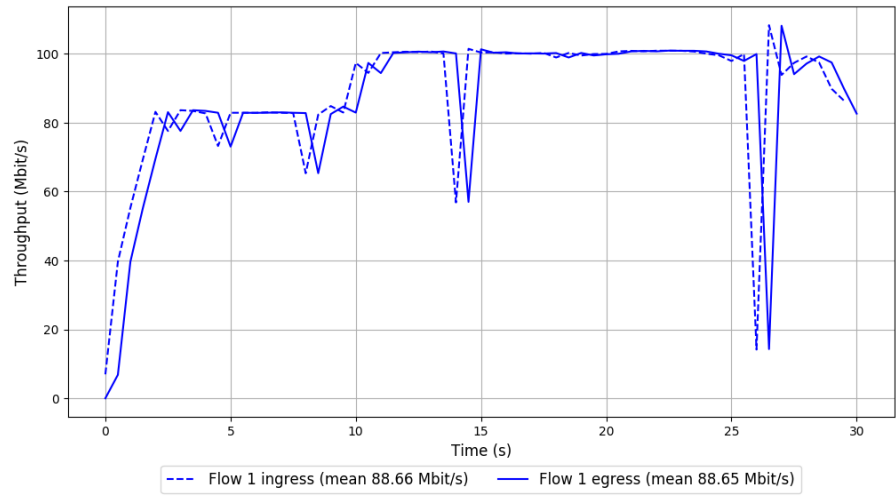
-- Flow 1:

Average throughput: 88.65 Mbit/s

95th percentile per-packet one-way delay: 1.152 ms

Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 03:50:17

End at: 2018-05-25 03:50:47

Local clock offset: 0.32 ms

Remote clock offset: 0.026 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.07%

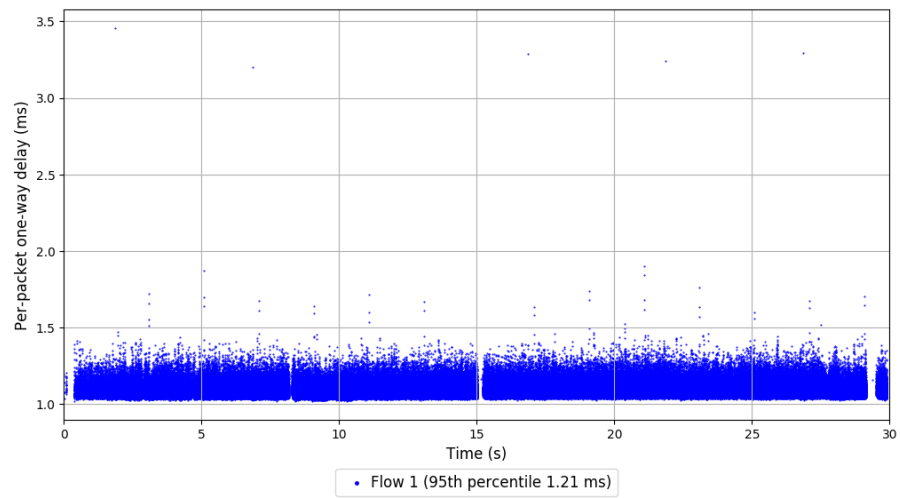
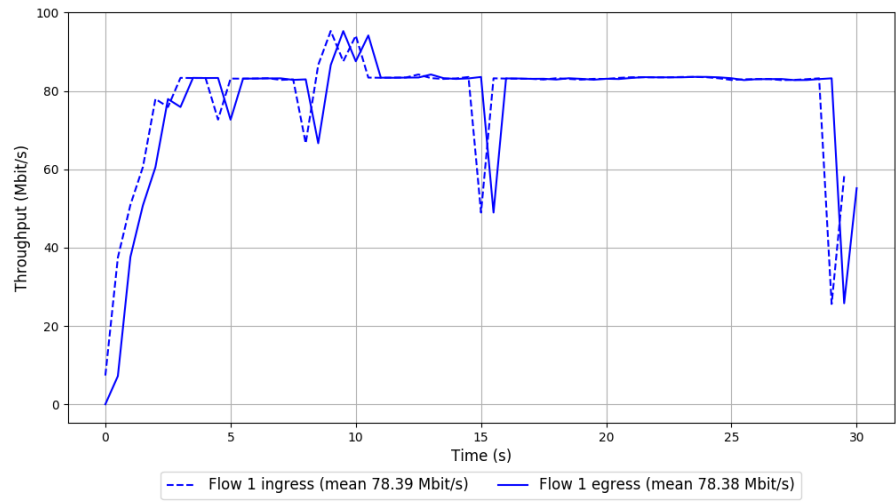
-- Flow 1:

Average throughput: 78.38 Mbit/s

95th percentile per-packet one-way delay: 1.210 ms

Loss rate: 0.07%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 04:14:56

End at: 2018-05-25 04:15:26

Local clock offset: 0.409 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.07%

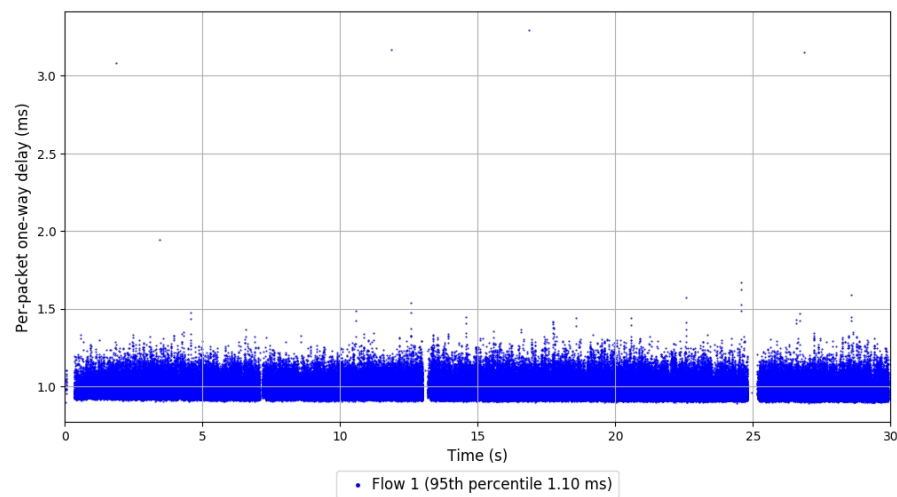
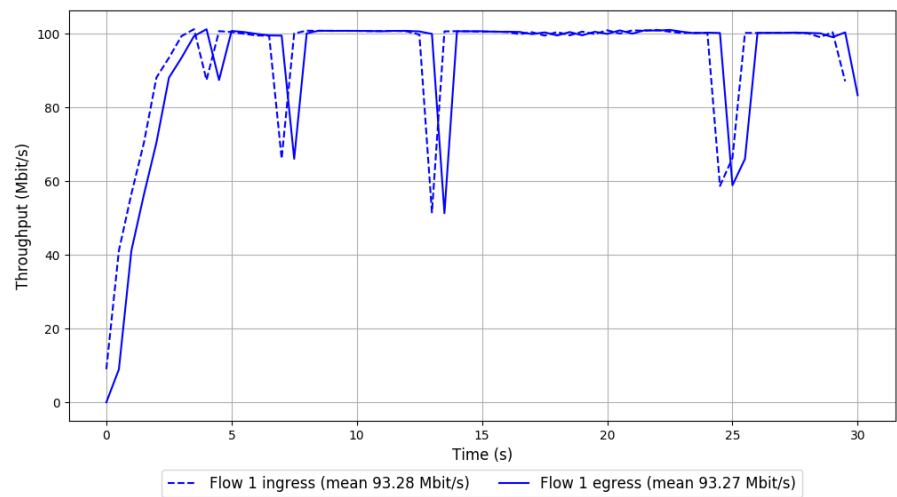
-- Flow 1:

Average throughput: 93.27 Mbit/s

95th percentile per-packet one-way delay: 1.105 ms

Loss rate: 0.07%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 04:39:14

End at: 2018-05-25 04:39:44

Local clock offset: 0.254 ms

Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.08%

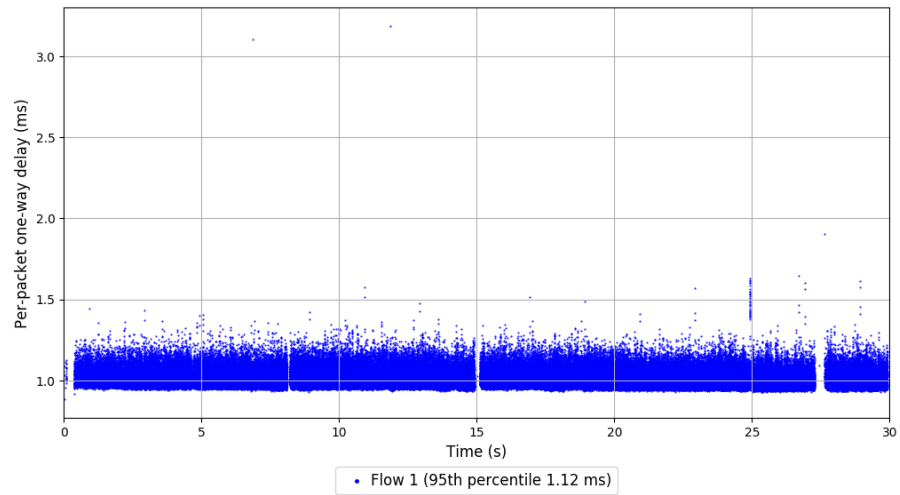
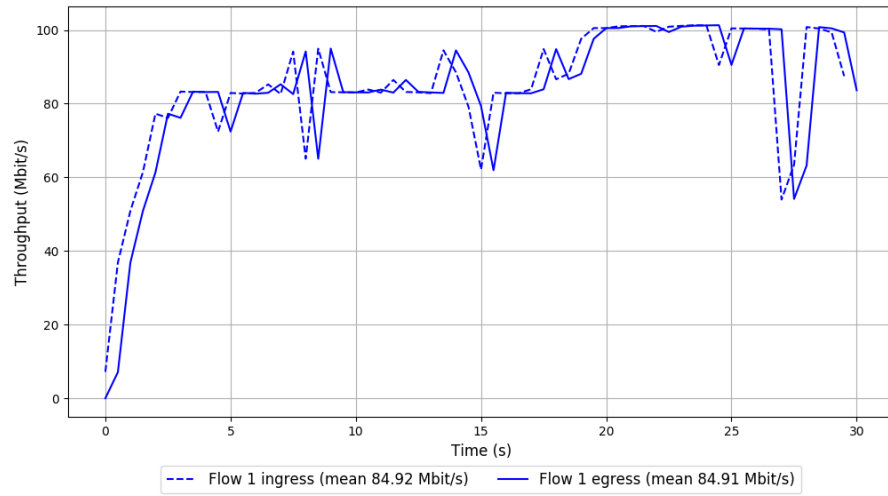
-- Flow 1:

Average throughput: 84.91 Mbit/s

95th percentile per-packet one-way delay: 1.117 ms

Loss rate: 0.08%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 05:03:46

End at: 2018-05-25 05:04:16

Local clock offset: 0.233 ms

Remote clock offset: -0.109 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 90.10 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.07%

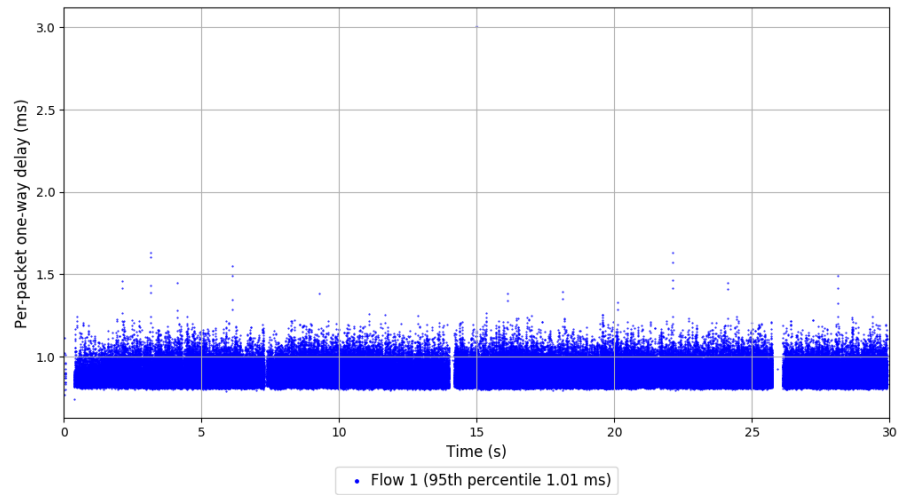
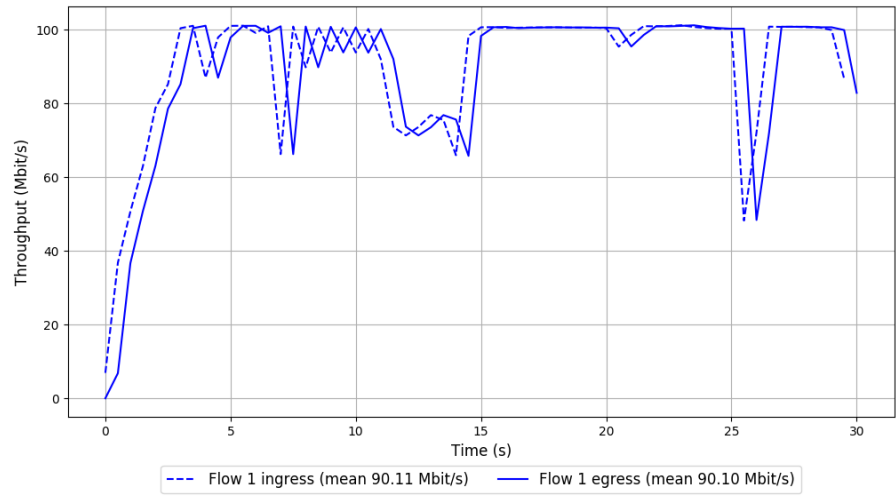
-- Flow 1:

Average throughput: 90.10 Mbit/s

95th percentile per-packet one-way delay: 1.006 ms

Loss rate: 0.07%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 05:27:51

End at: 2018-05-25 05:28:21

Local clock offset: 0.263 ms

Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.06%

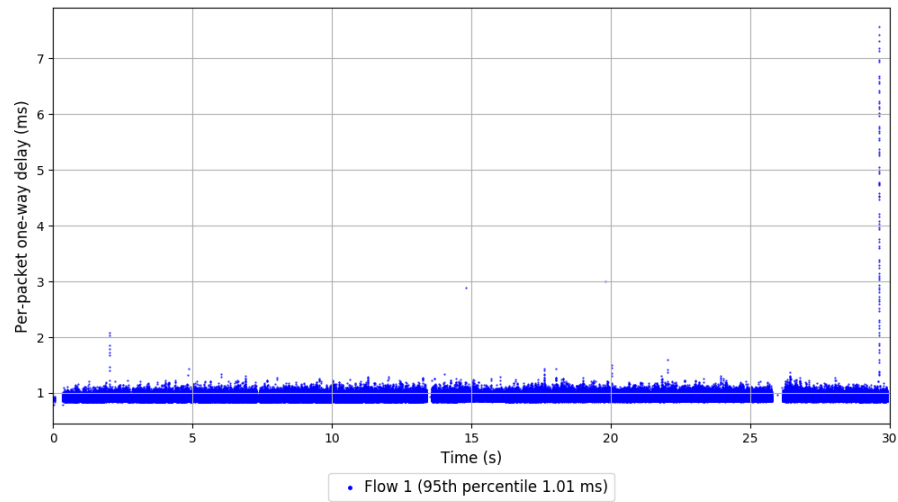
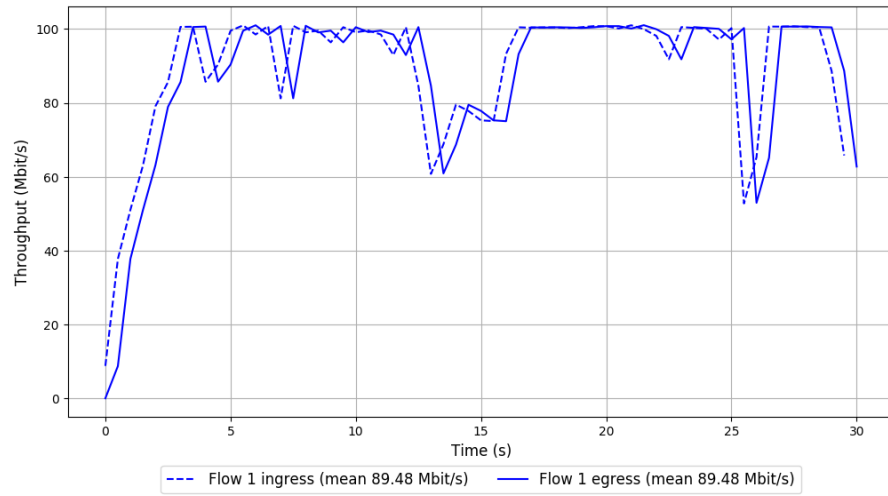
-- Flow 1:

Average throughput: 89.48 Mbit/s

95th percentile per-packet one-way delay: 1.012 ms

Loss rate: 0.06%

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

Start at: 2018-05-25 01:33:48

End at: 2018-05-25 01:34:18

Local clock offset: 1.451 ms

Remote clock offset: 0.4 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.13%

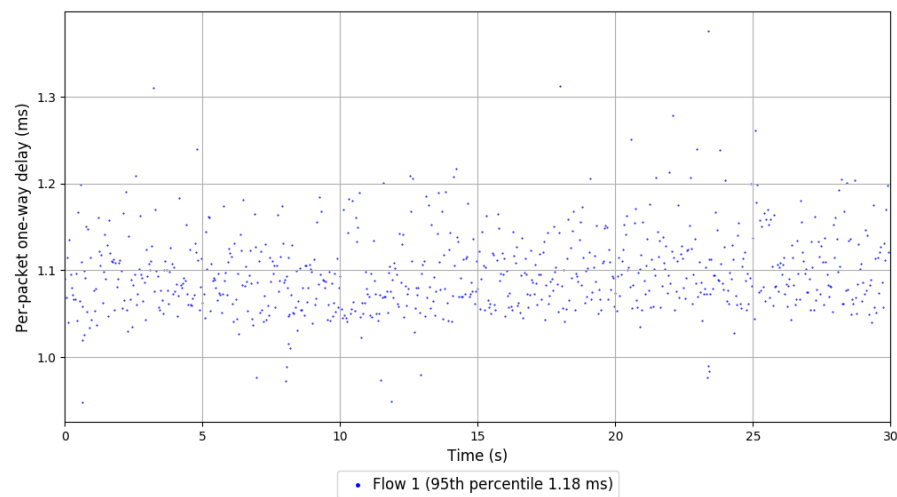
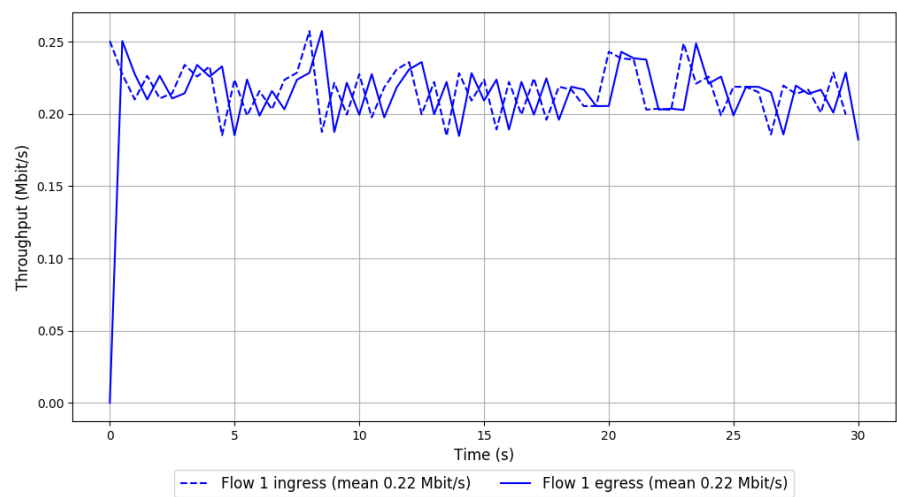
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.180 ms

Loss rate: 0.13%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-25 01:58:27

End at: 2018-05-25 01:58:57

Local clock offset: 1.697 ms

Remote clock offset: 0.946 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.13%

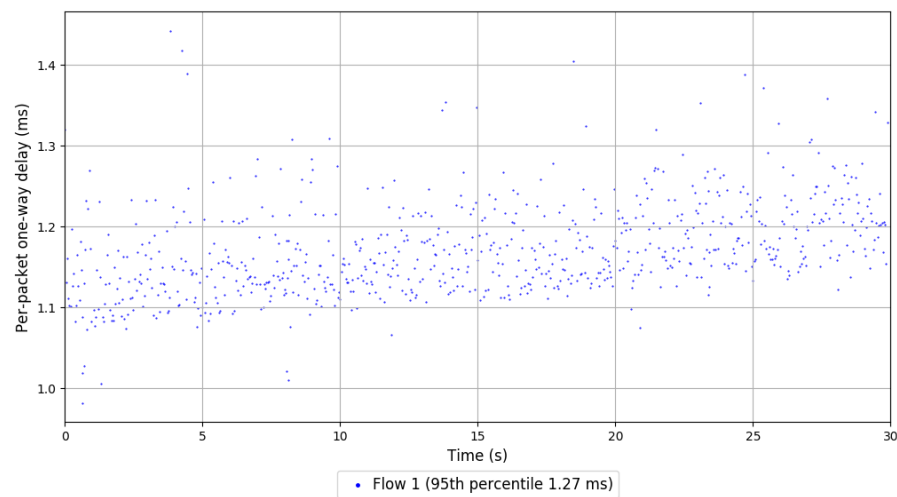
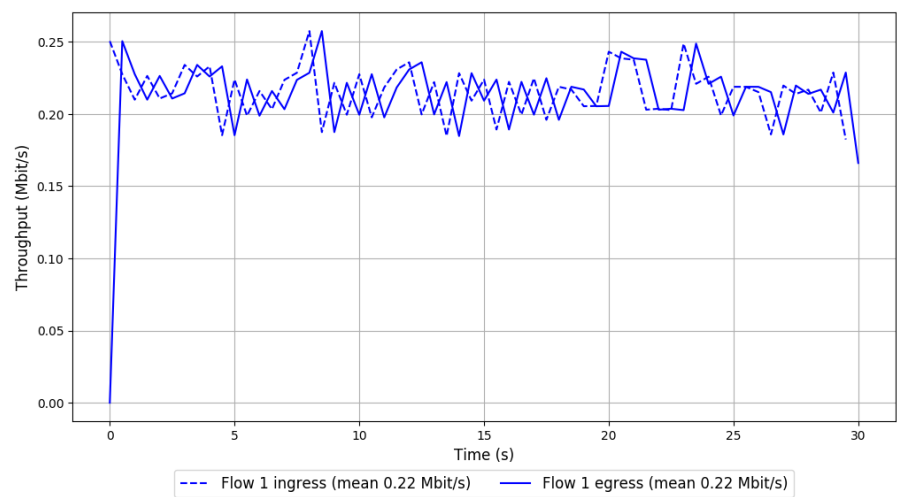
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.269 ms

Loss rate: 0.13%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-25 02:22:56

End at: 2018-05-25 02:23:26

Local clock offset: 0.455 ms

Remote clock offset: 1.473 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.00%

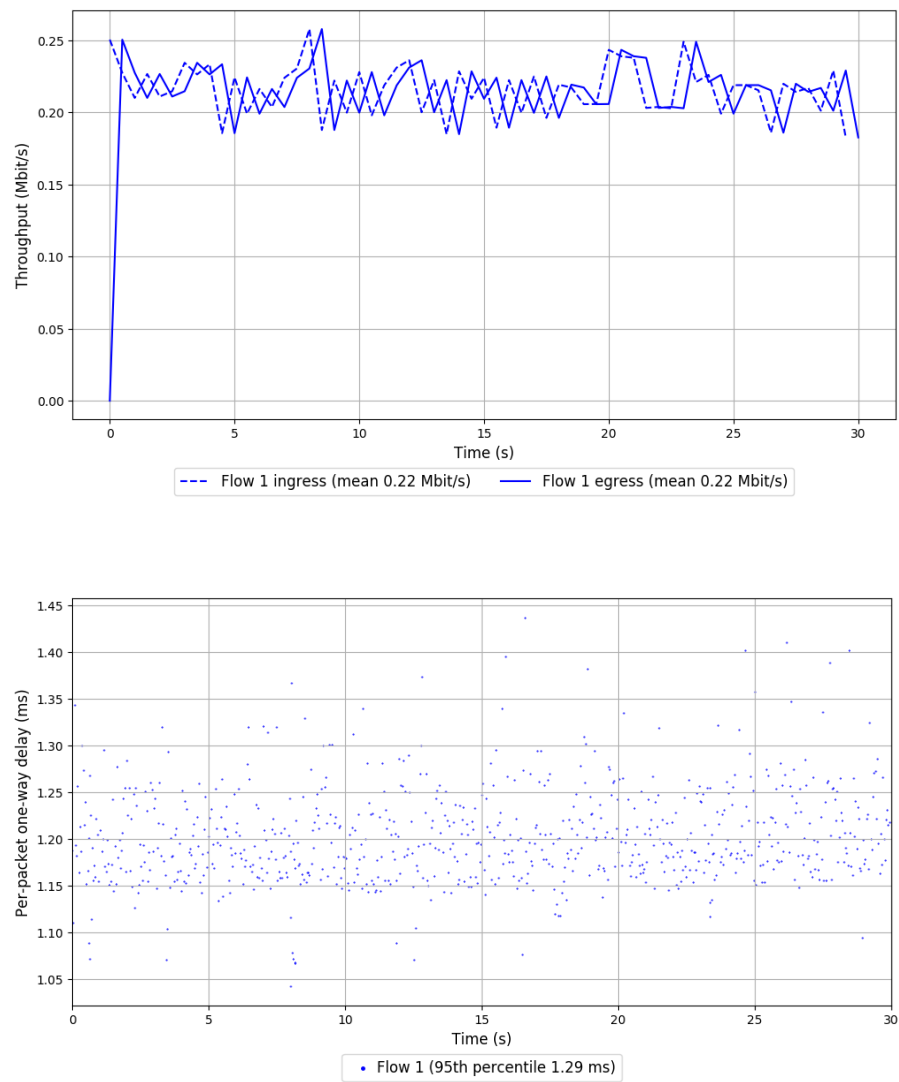
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.294 ms

Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-25 02:47:38

End at: 2018-05-25 02:48:08

Local clock offset: 0.067 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.00%

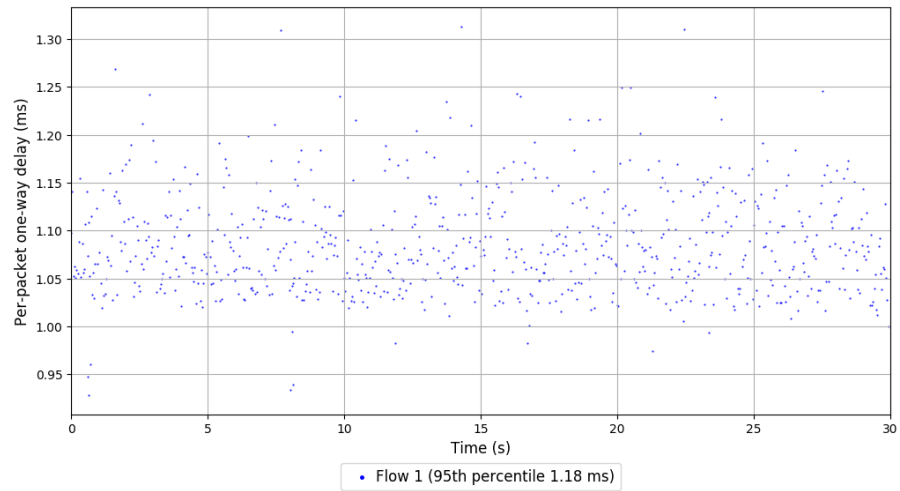
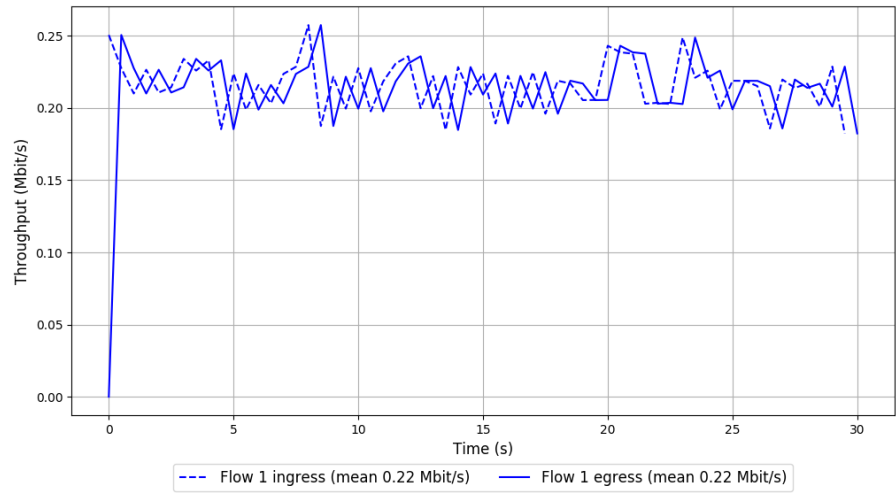
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.175 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

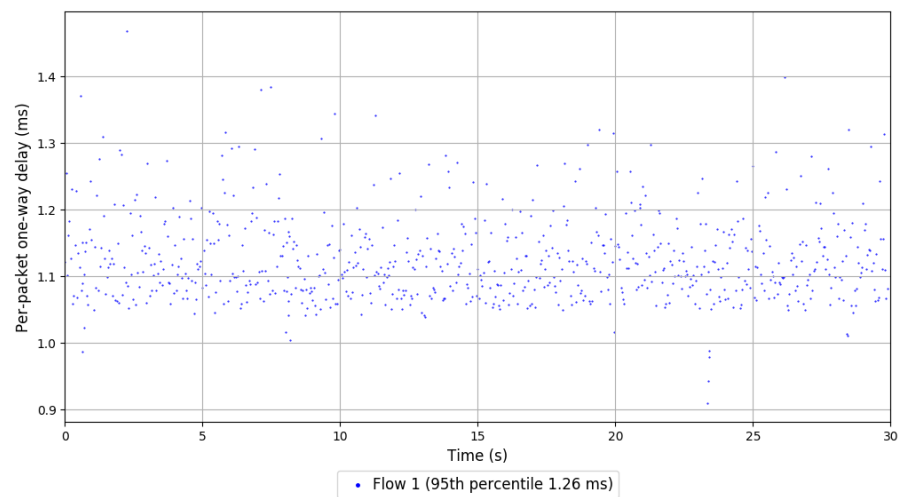
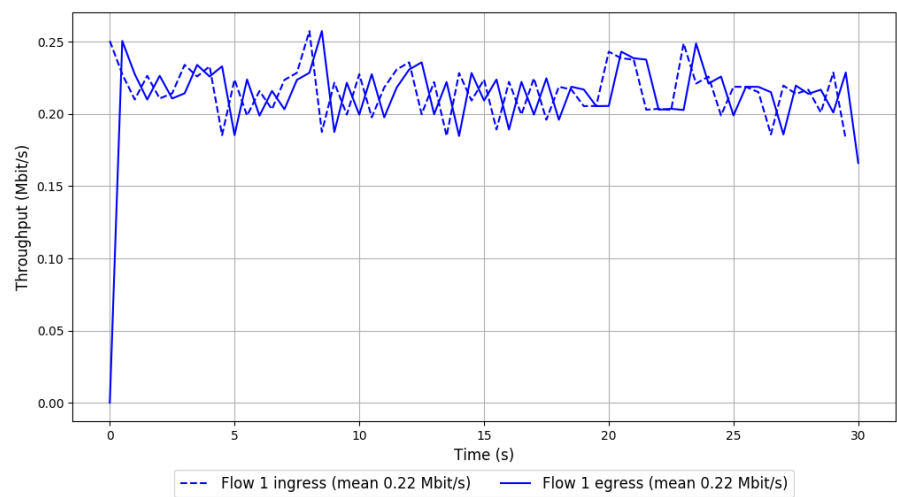


Run 5: Statistics of SCReAM

Start at: 2018-05-25 03:12:05
End at: 2018-05-25 03:12:35
Local clock offset: 0.229 ms
Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.257 ms
Loss rate: 0.13%

Run 5: Report of SReAM — Data Link

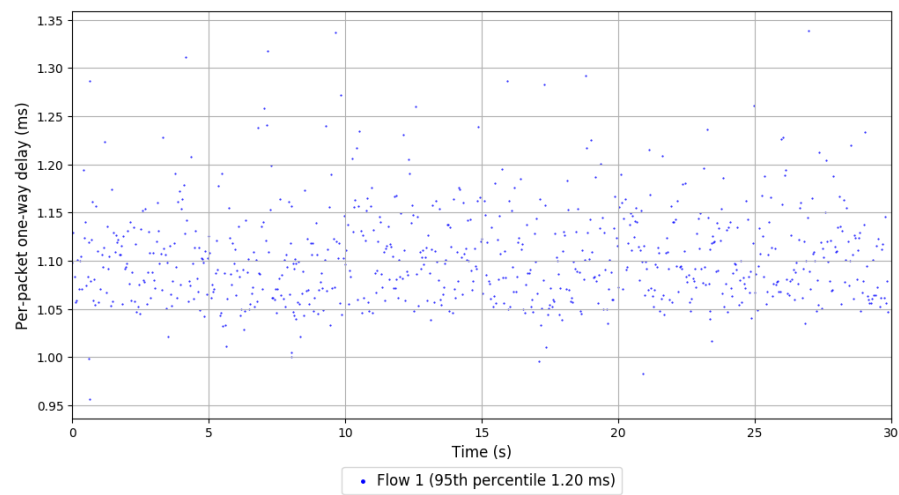
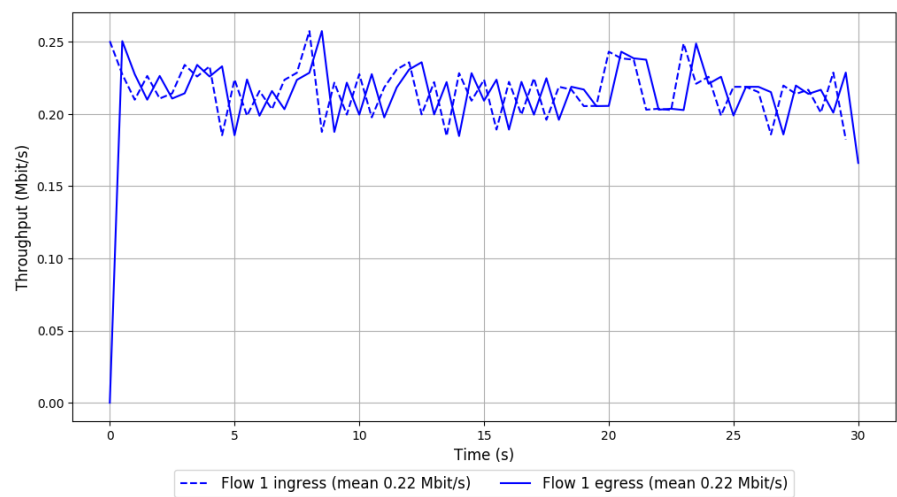


Run 6: Statistics of SCReAM

Start at: 2018-05-25 03:36:21
End at: 2018-05-25 03:36:51
Local clock offset: 0.231 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.195 ms
Loss rate: 0.13%

Run 6: Report of SCRaM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-25 04:00:54

End at: 2018-05-25 04:01:24

Local clock offset: 0.331 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.13%

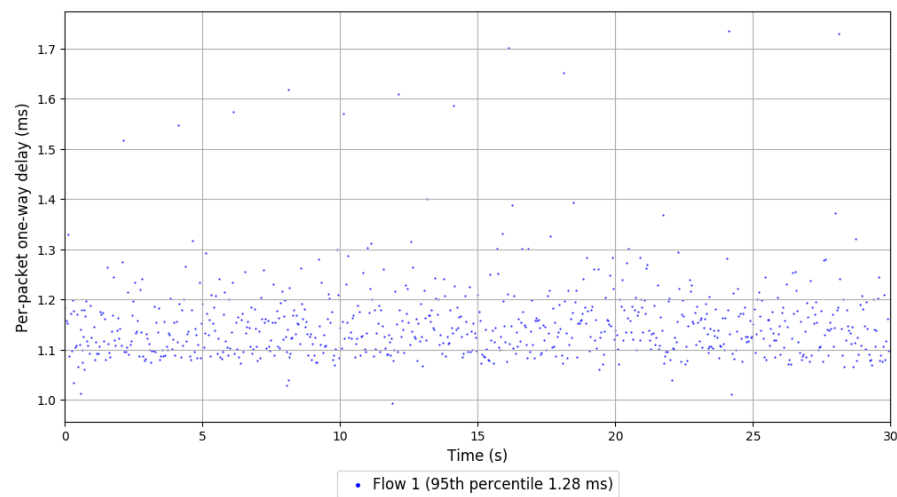
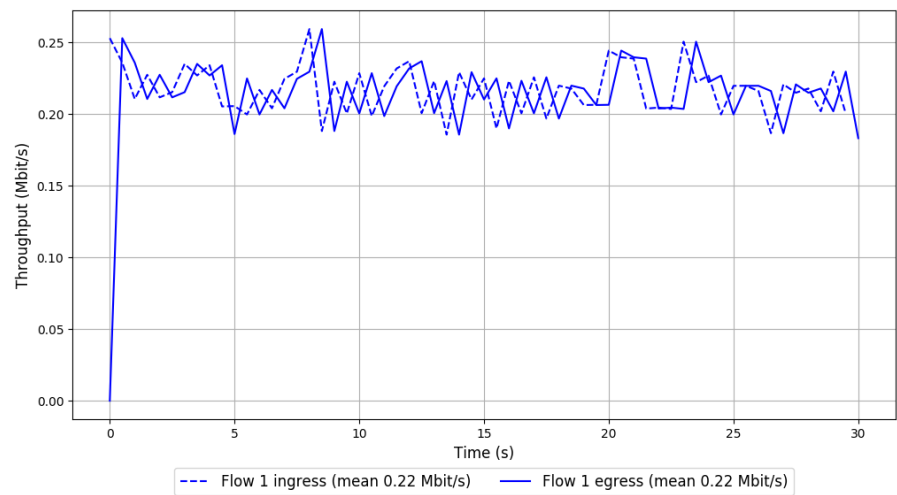
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.278 ms

Loss rate: 0.13%

Run 7: Report of SReAM — Data Link

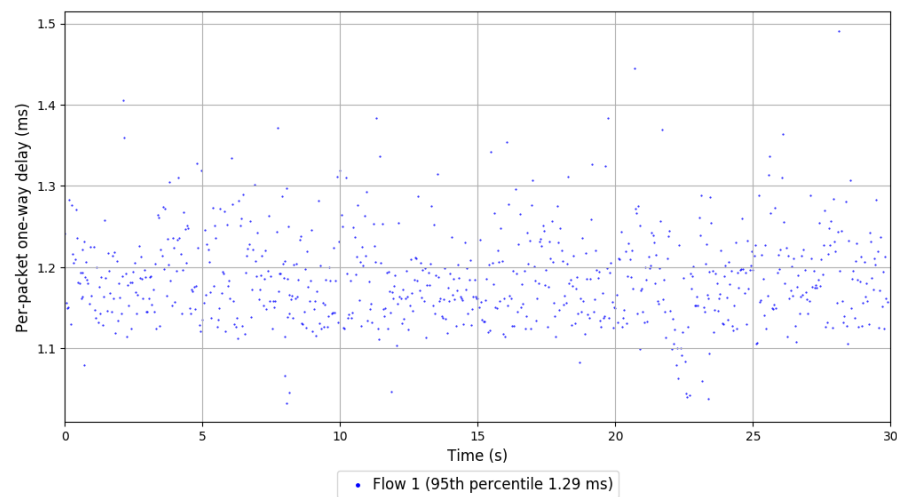
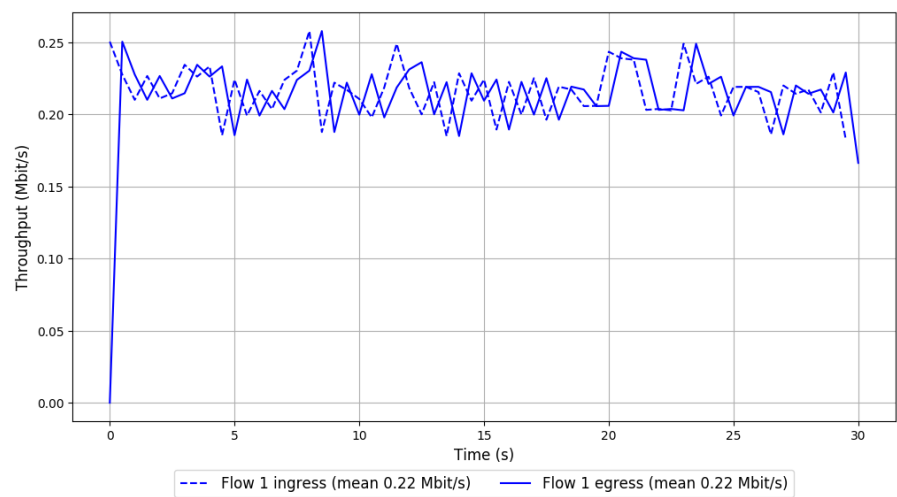


Run 8: Statistics of SCReAM

Start at: 2018-05-25 04:25:36
End at: 2018-05-25 04:26:06
Local clock offset: 0.42 ms
Remote clock offset: -0.016 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.287 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.287 ms
Loss rate: 0.13%

Run 8: Report of SReAM — Data Link

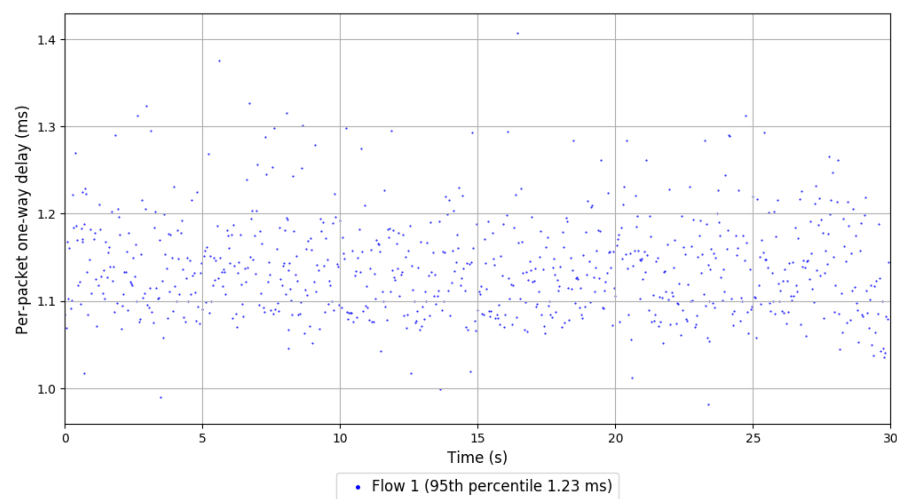
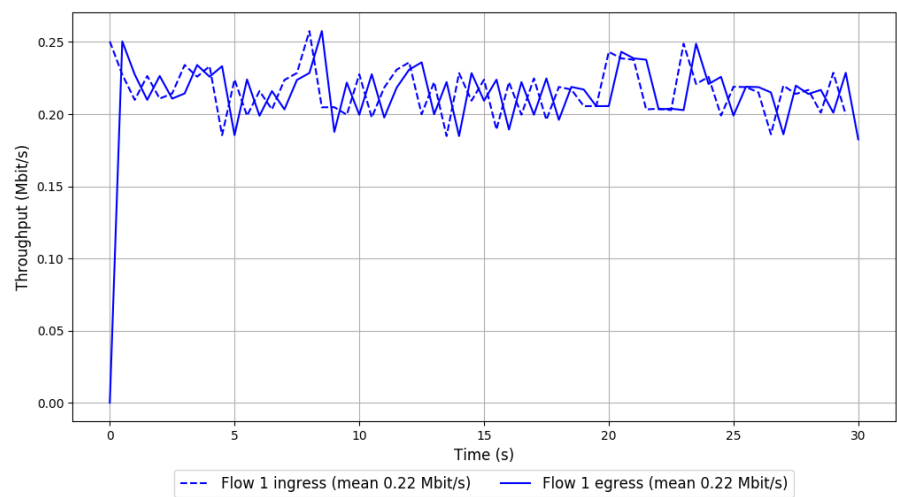


Run 9: Statistics of SCReAM

Start at: 2018-05-25 04:49:48
End at: 2018-05-25 04:50:18
Local clock offset: 0.227 ms
Remote clock offset: -0.156 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.232 ms
Loss rate: 0.13%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-25 05:14:18

End at: 2018-05-25 05:14:48

Local clock offset: 0.279 ms

Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.13%

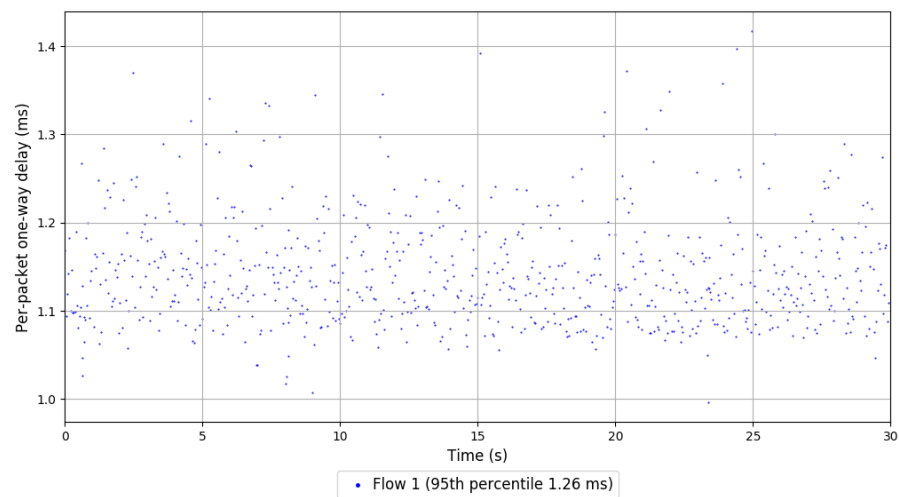
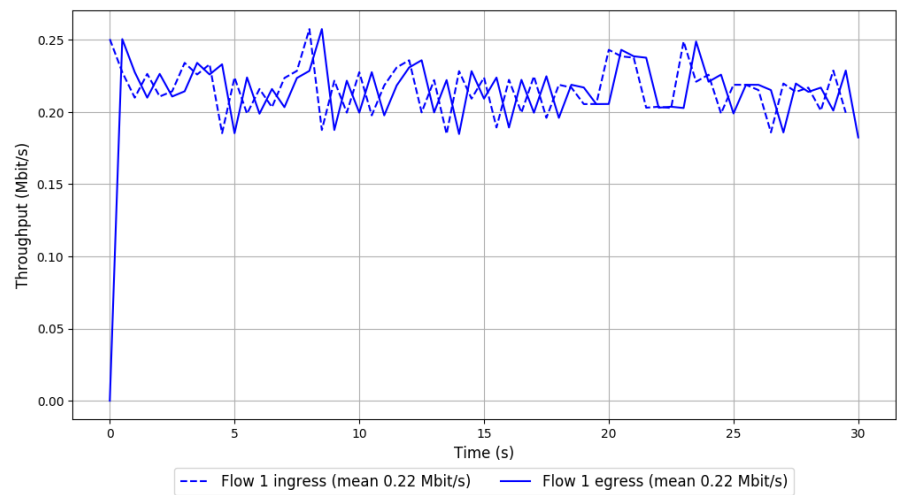
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.259 ms

Loss rate: 0.13%

Run 10: Report of SCReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 01:24:24

End at: 2018-05-25 01:24:54

Local clock offset: 1.423 ms

Remote clock offset: 0.307 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.16%

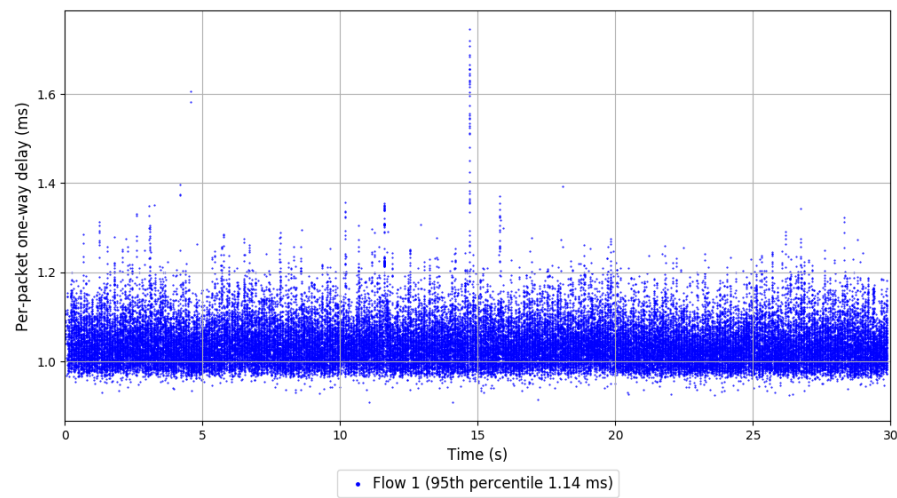
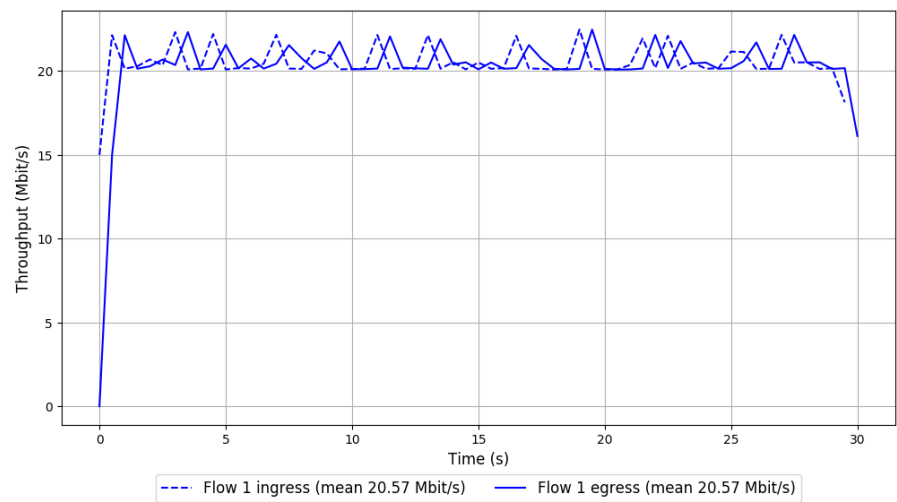
-- Flow 1:

Average throughput: 20.57 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.16%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-25 01:49:00

End at: 2018-05-25 01:49:30

Local clock offset: 1.594 ms

Remote clock offset: 0.763 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.00%

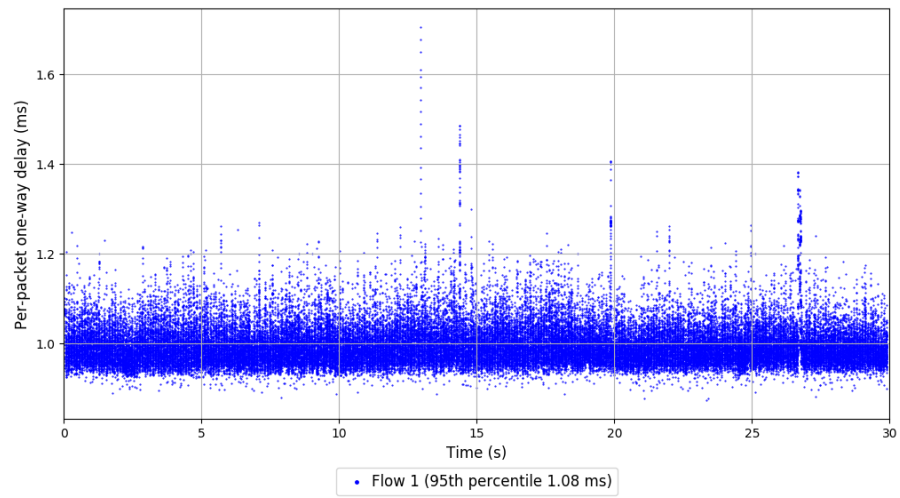
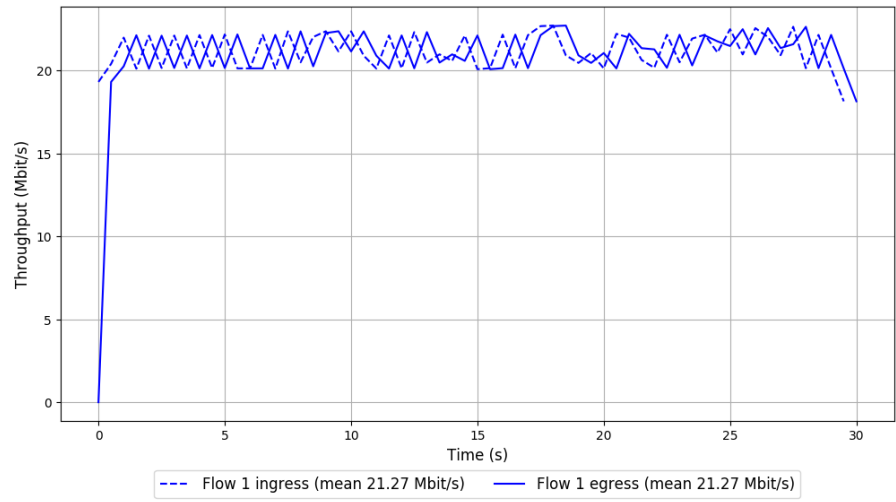
-- Flow 1:

Average throughput: 21.27 Mbit/s

95th percentile per-packet one-way delay: 1.082 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-25 02:13:26

End at: 2018-05-25 02:13:56

Local clock offset: 0.735 ms

Remote clock offset: 1.365 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.14%

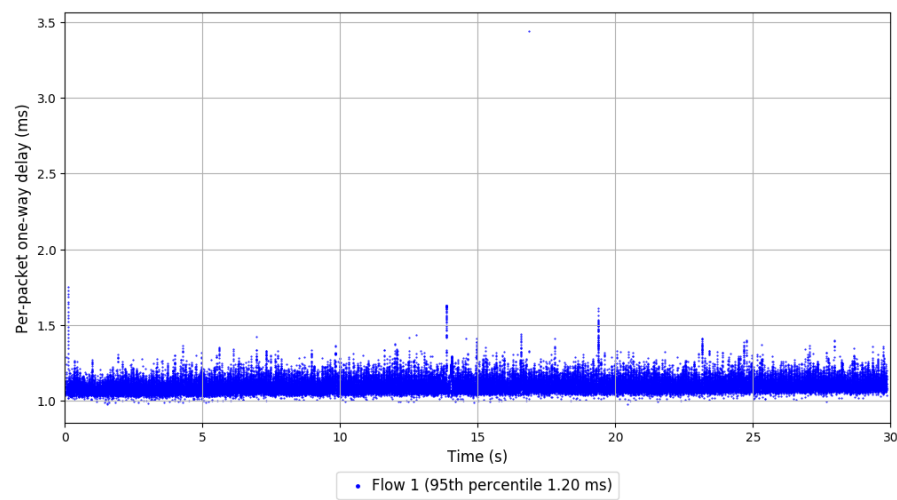
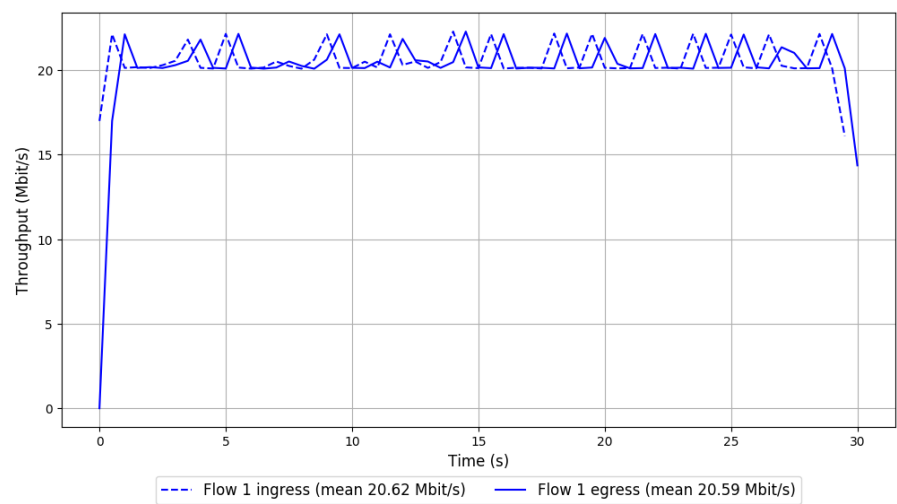
-- Flow 1:

Average throughput: 20.59 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.14%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-25 02:38:19

End at: 2018-05-25 02:38:49

Local clock offset: 0.17 ms

Remote clock offset: 0.891 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.16%

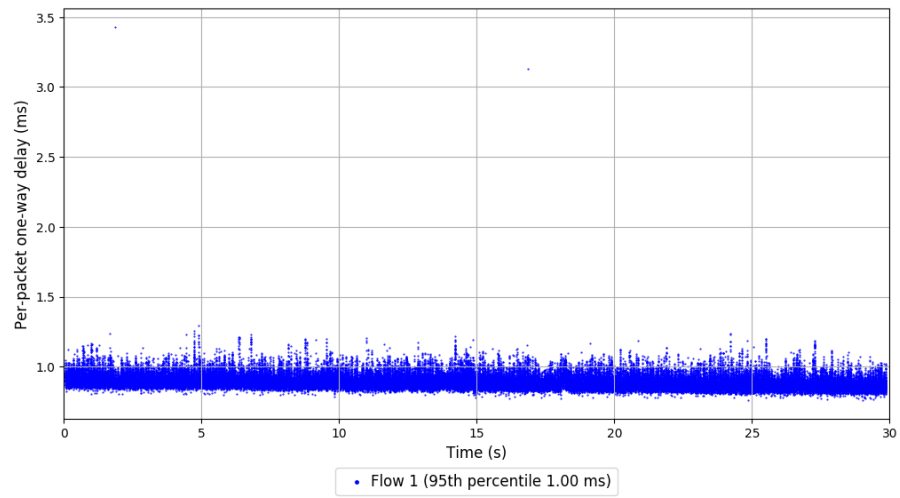
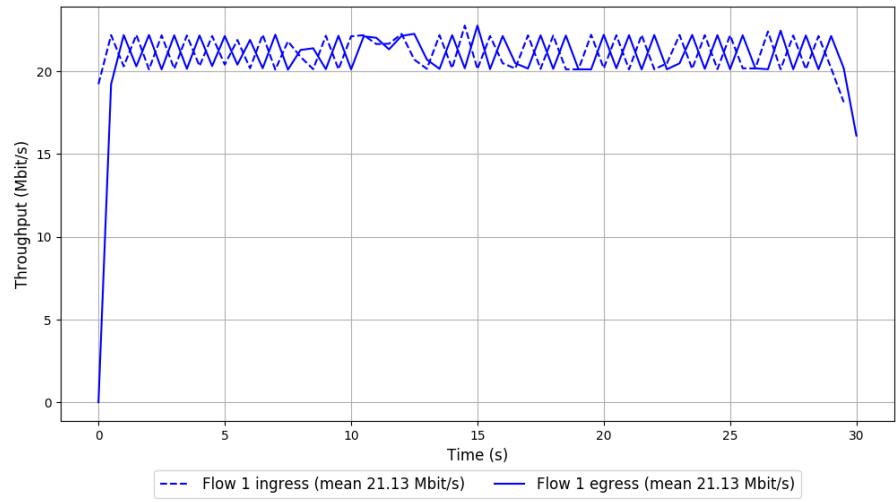
-- Flow 1:

Average throughput: 21.13 Mbit/s

95th percentile per-packet one-way delay: 1.002 ms

Loss rate: 0.16%

Run 4: Report of Sprout — Data Link

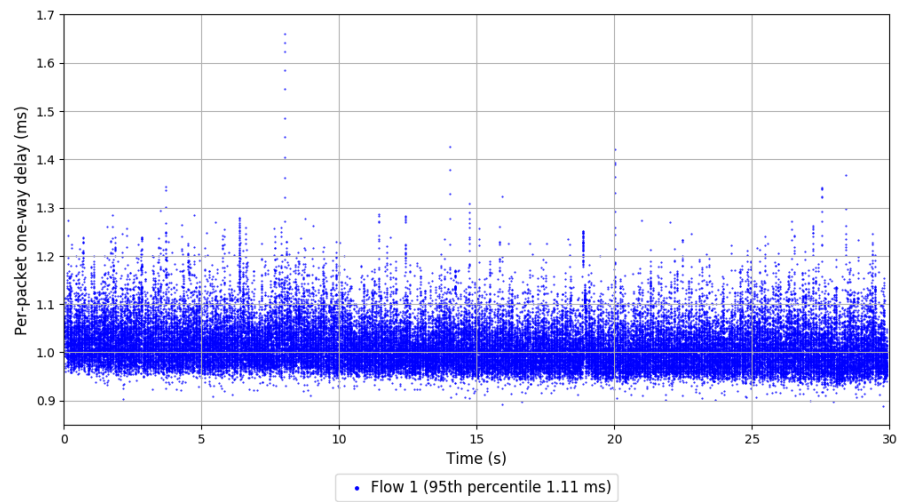
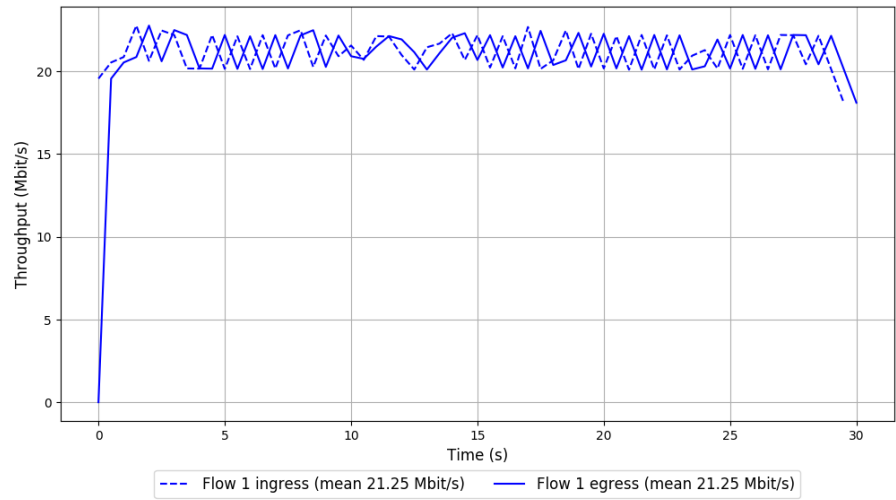


Run 5: Statistics of Sprout

Start at: 2018-05-25 03:02:42
End at: 2018-05-25 03:03:12
Local clock offset: 0.148 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 21.25 Mbit/s
95th percentile per-packet one-way delay: 1.109 ms
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

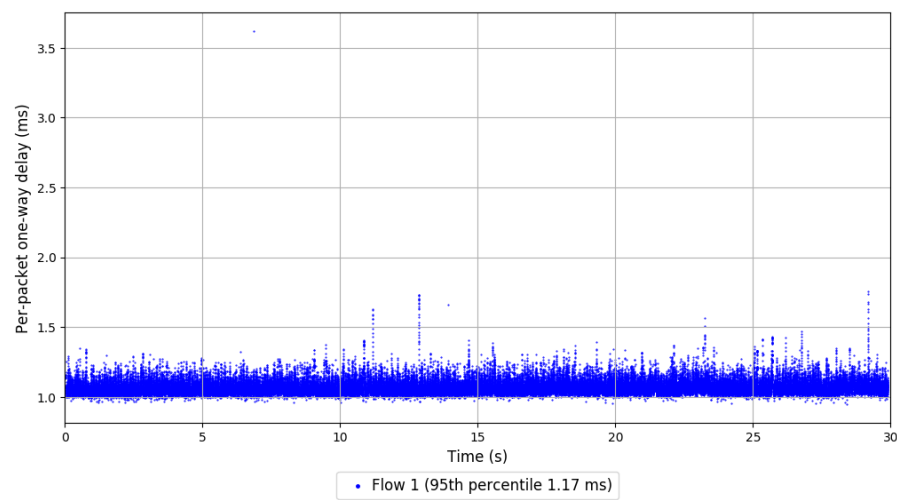
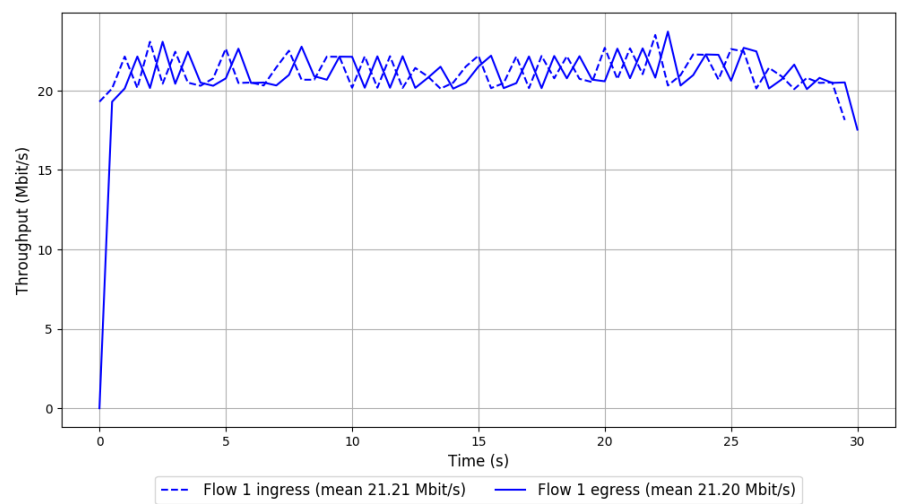


Run 6: Statistics of Sprout

Start at: 2018-05-25 03:27:01
End at: 2018-05-25 03:27:31
Local clock offset: 0.309 ms
Remote clock offset: -0.041 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 21.20 Mbit/s
95th percentile per-packet one-way delay: 1.173 ms
Loss rate: 0.05%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-25 03:51:38

End at: 2018-05-25 03:52:08

Local clock offset: 0.303 ms

Remote clock offset: 0.042 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.00%

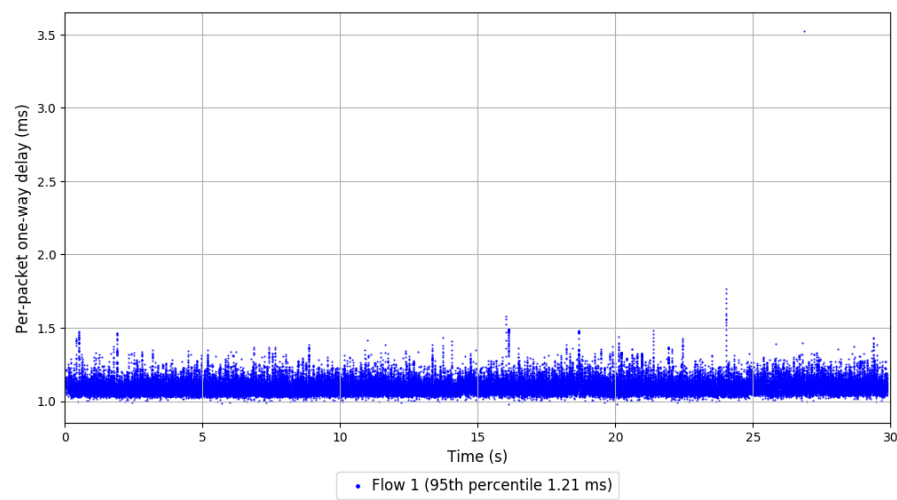
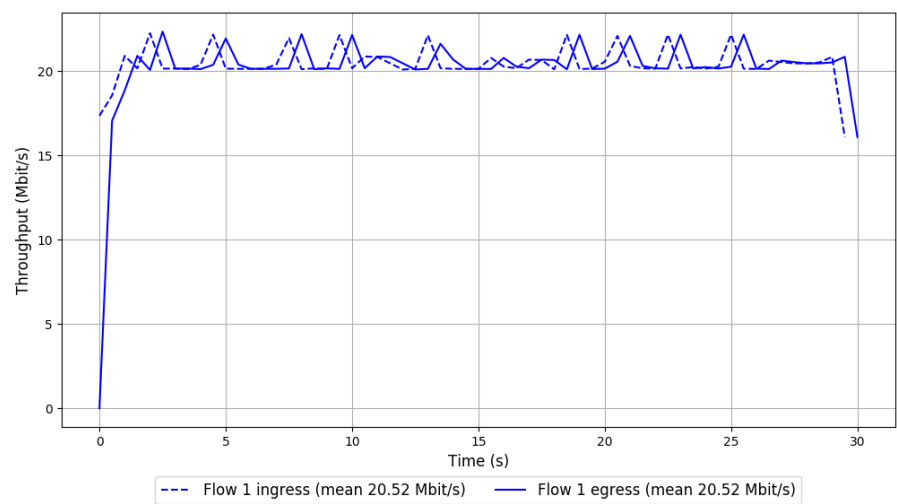
-- Flow 1:

Average throughput: 20.52 Mbit/s

95th percentile per-packet one-way delay: 1.208 ms

Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-25 04:16:17

End at: 2018-05-25 04:16:47

Local clock offset: 0.415 ms

Remote clock offset: 0.115 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.00%

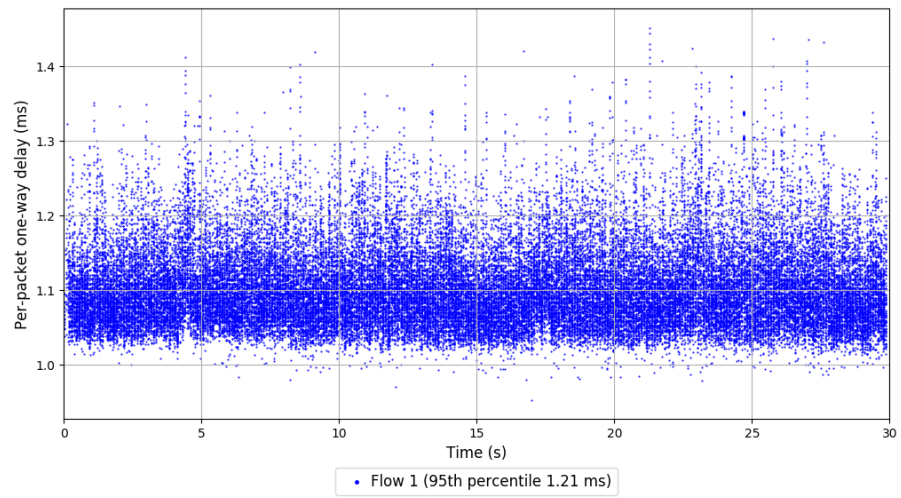
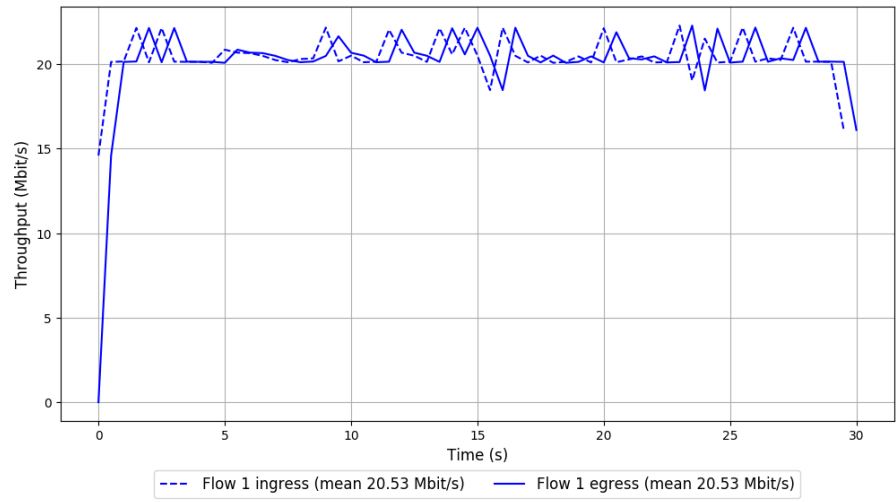
-- Flow 1:

Average throughput: 20.53 Mbit/s

95th percentile per-packet one-way delay: 1.209 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

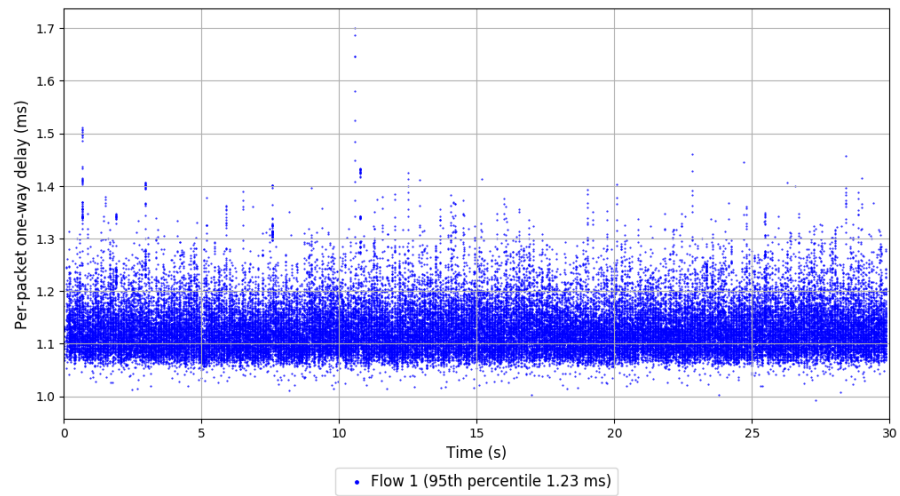
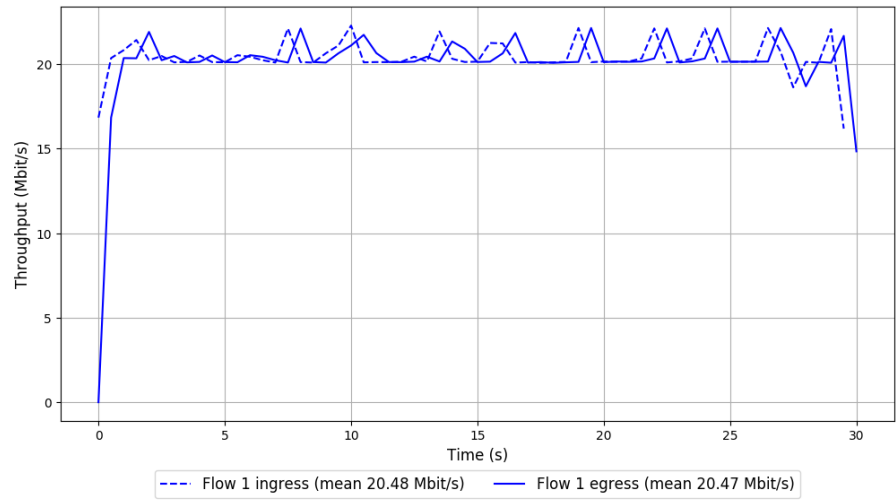


Run 9: Statistics of Sprout

Start at: 2018-05-25 04:40:34
End at: 2018-05-25 04:41:04
Local clock offset: 0.349 ms
Remote clock offset: -0.124 ms

Below is generated by plot.py at 2018-05-25 07:02:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 1.225 ms
Loss rate: 0.14%

Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-05-25 05:05:07

End at: 2018-05-25 05:05:37

Local clock offset: 0.311 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-05-25 07:02:44

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.02%

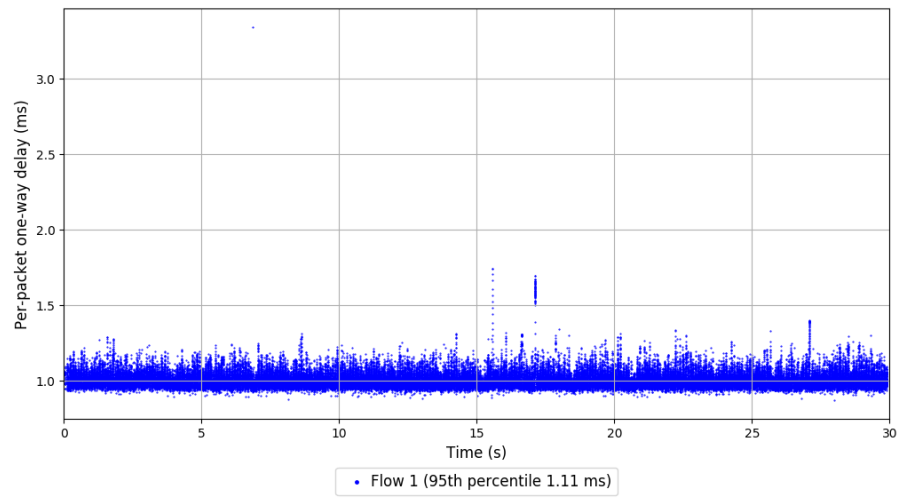
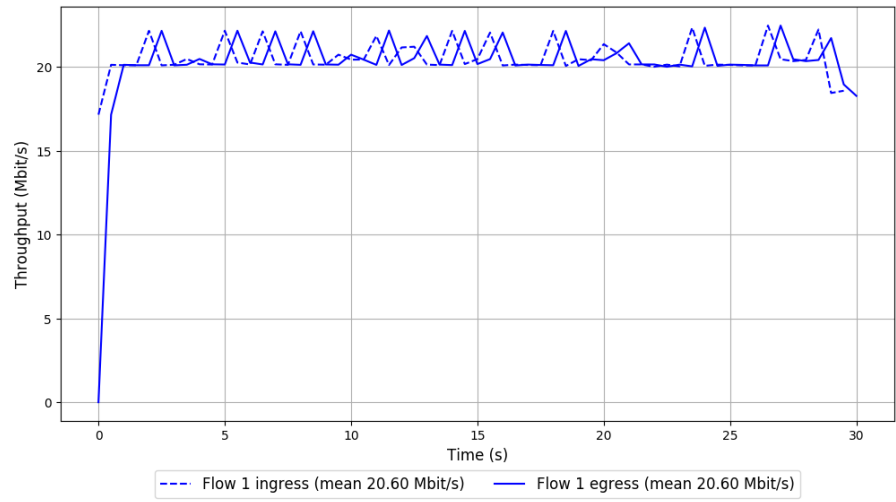
-- Flow 1:

Average throughput: 20.60 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.02%

Run 10: Report of Sprout — Data Link

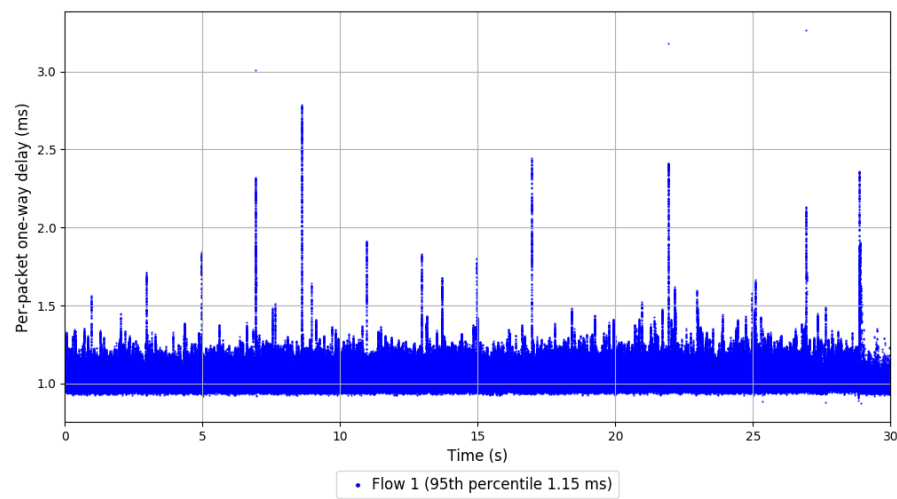
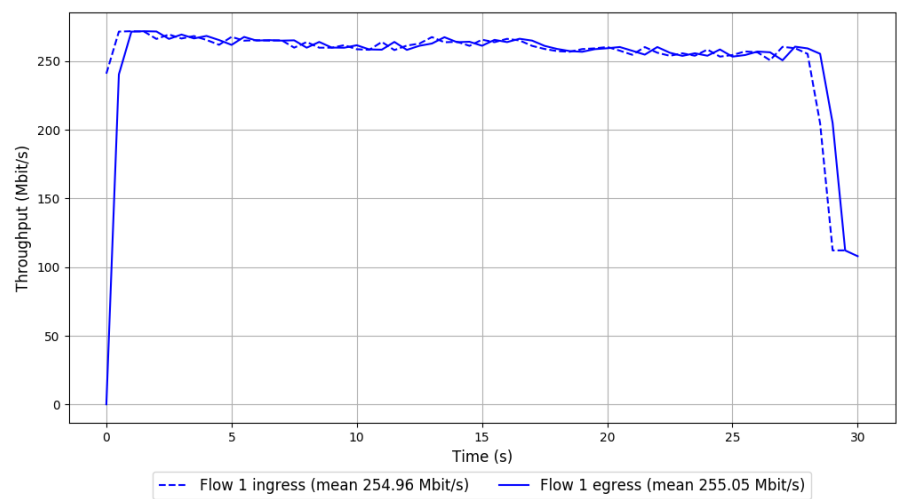


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 01:39:36
End at: 2018-05-25 01:40:06
Local clock offset: 1.593 ms
Remote clock offset: 0.621 ms

# Below is generated by plot.py at 2018-05-25 07:06:09
# Datalink statistics
-- Total of 1 flow:
Average throughput: 255.05 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 255.05 Mbit/s
95th percentile per-packet one-way delay: 1.152 ms
Loss rate: 0.03%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 02:04:08

End at: 2018-05-25 02:04:38

Local clock offset: 1.125 ms

Remote clock offset: 1.095 ms

Below is generated by plot.py at 2018-05-25 07:06:45

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.78 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.07%

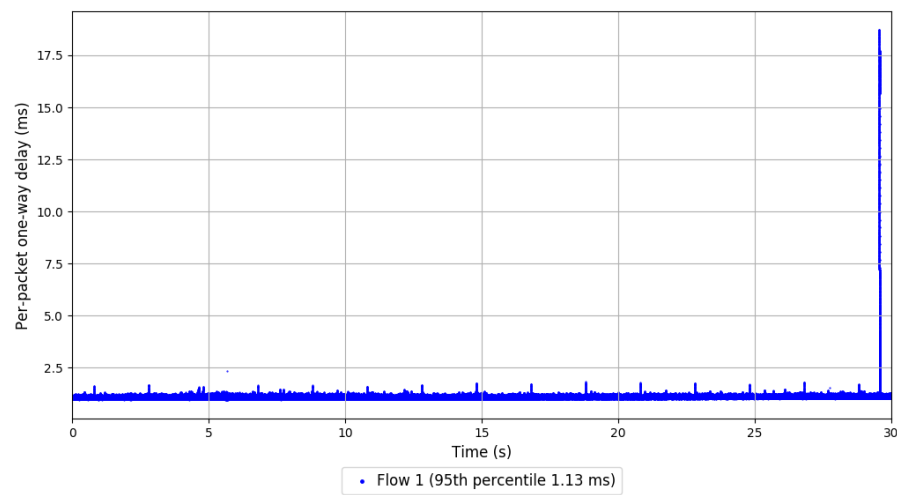
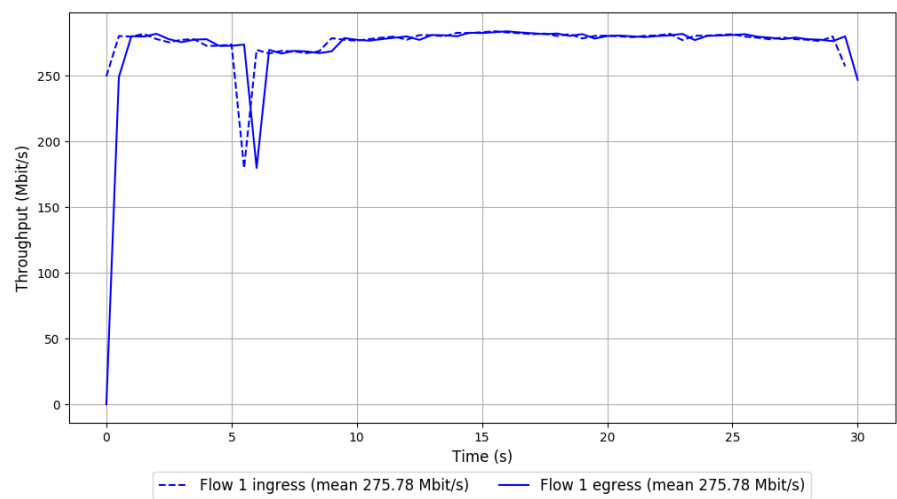
-- Flow 1:

Average throughput: 275.78 Mbit/s

95th percentile per-packet one-way delay: 1.134 ms

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 02:28:54

End at: 2018-05-25 02:29:24

Local clock offset: 0.354 ms

Remote clock offset: 1.613 ms

Below is generated by plot.py at 2018-05-25 07:06:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 274.66 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.07%

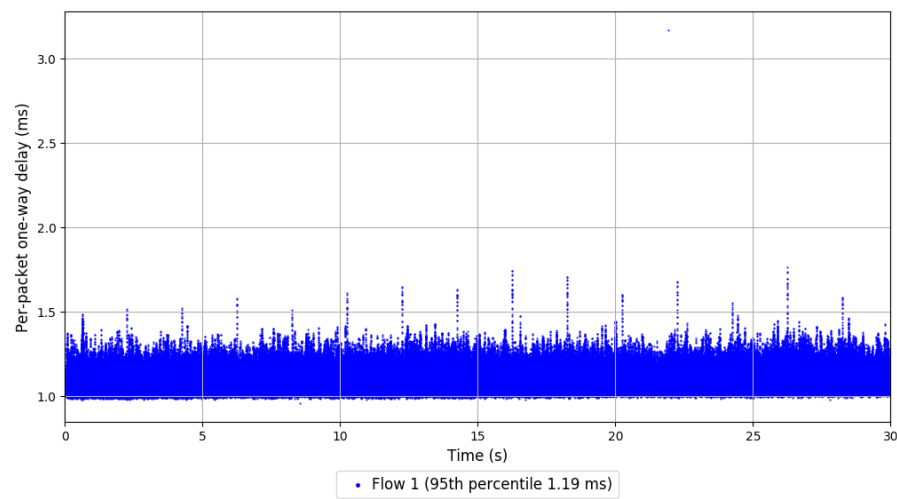
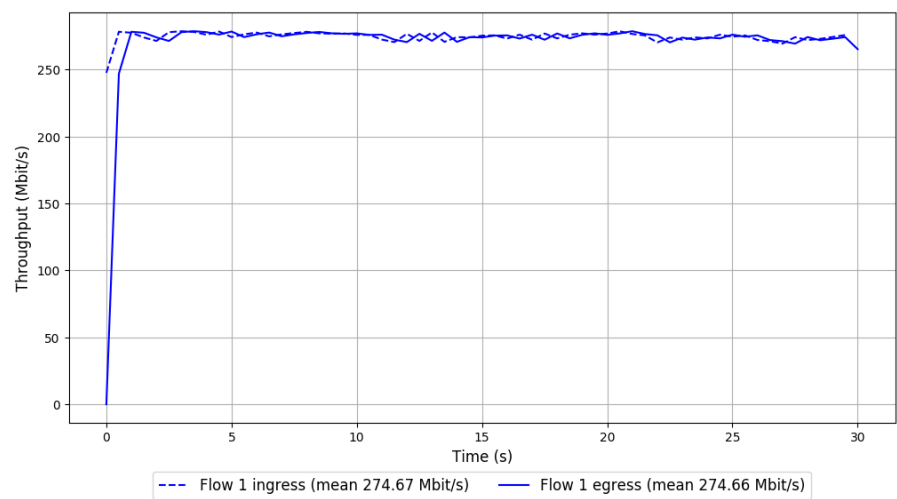
-- Flow 1:

Average throughput: 274.66 Mbit/s

95th percentile per-packet one-way delay: 1.187 ms

Loss rate: 0.07%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 02:53:30

End at: 2018-05-25 02:54:00

Local clock offset: 0.007 ms

Remote clock offset: -0.011 ms

Below is generated by plot.py at 2018-05-25 07:06:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.91 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.06%

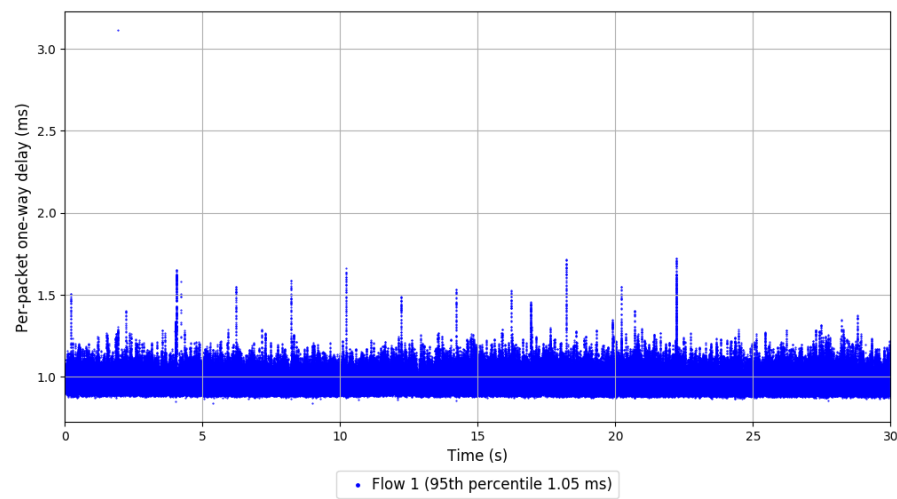
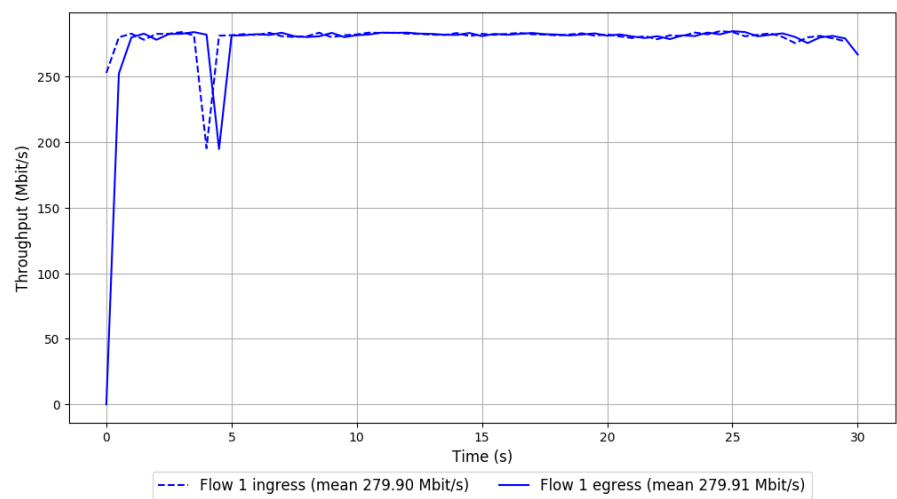
-- Flow 1:

Average throughput: 279.91 Mbit/s

95th percentile per-packet one-way delay: 1.046 ms

Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 03:17:48

End at: 2018-05-25 03:18:18

Local clock offset: 0.232 ms

Remote clock offset: -0.139 ms

Below is generated by plot.py at 2018-05-25 07:08:14

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.46 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.07%

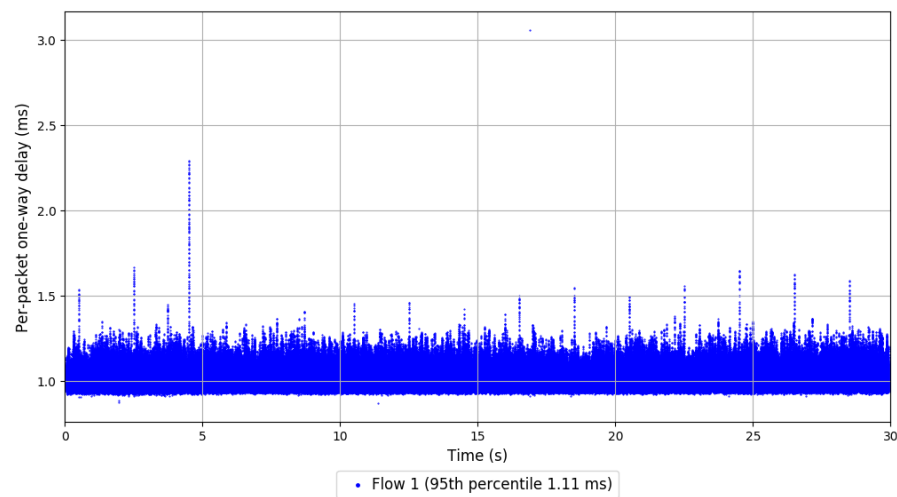
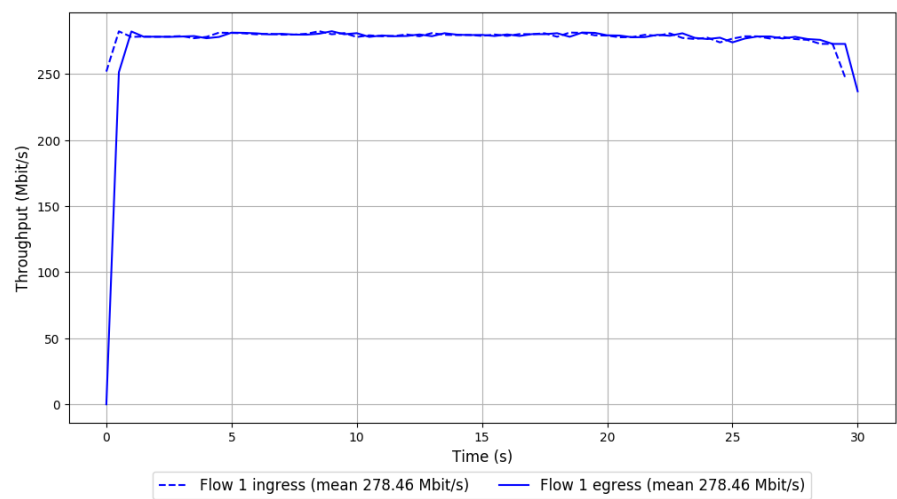
-- Flow 1:

Average throughput: 278.46 Mbit/s

95th percentile per-packet one-way delay: 1.110 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 03:42:15

End at: 2018-05-25 03:42:45

Local clock offset: 0.257 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-25 07:08:27

Datalink statistics

-- Total of 1 flow:

Average throughput: 277.19 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.07%

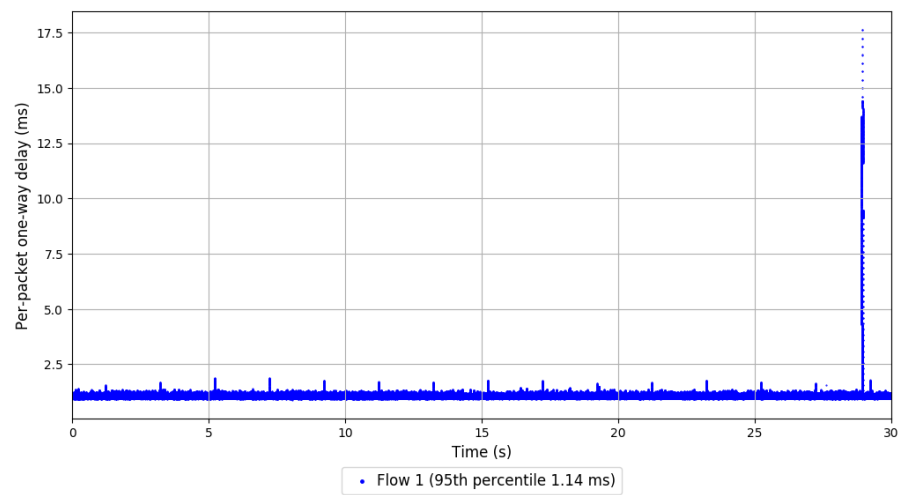
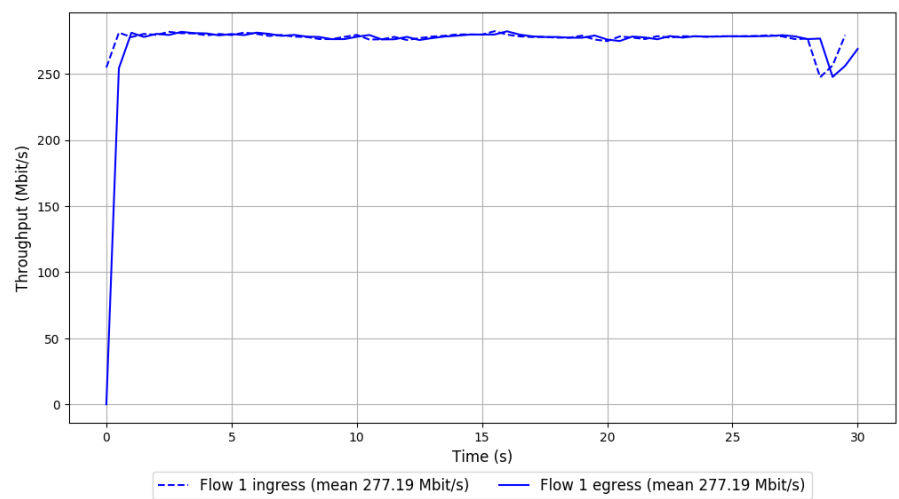
-- Flow 1:

Average throughput: 277.19 Mbit/s

95th percentile per-packet one-way delay: 1.138 ms

Loss rate: 0.07%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 04:06:41

End at: 2018-05-25 04:07:11

Local clock offset: 0.291 ms

Remote clock offset: 0.171 ms

Below is generated by plot.py at 2018-05-25 07:08:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 278.87 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.07%

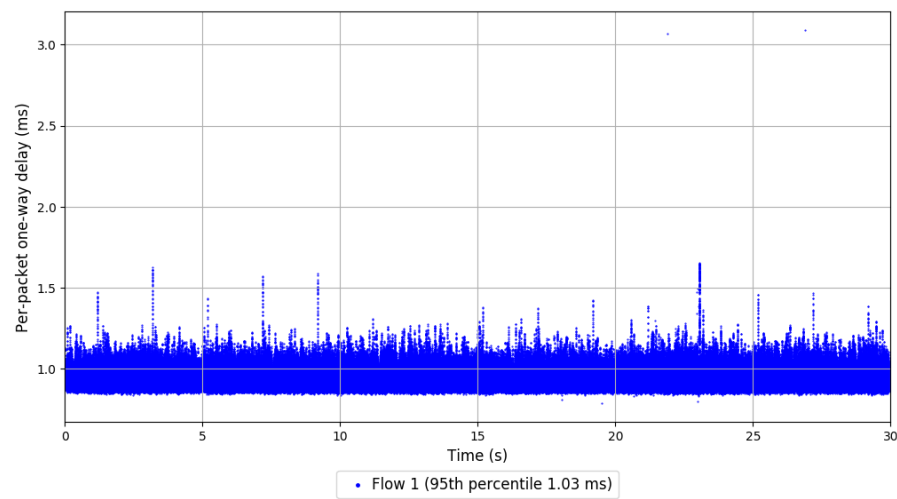
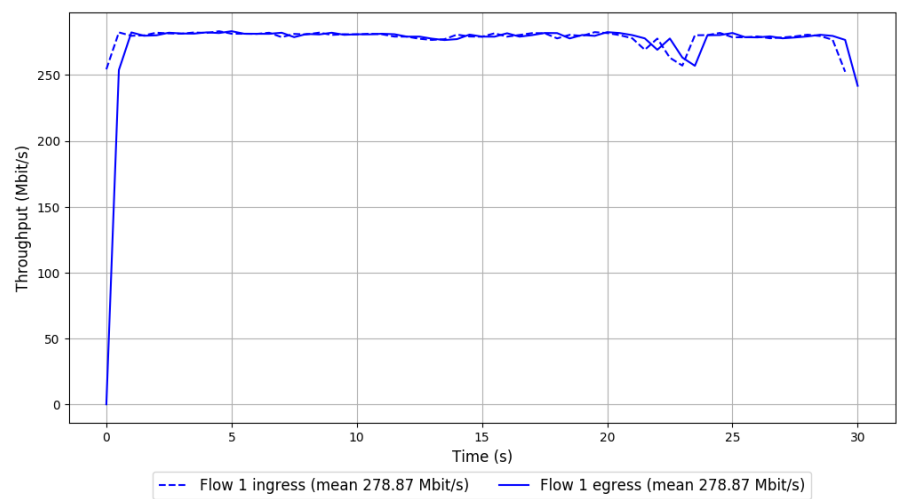
-- Flow 1:

Average throughput: 278.87 Mbit/s

95th percentile per-packet one-way delay: 1.029 ms

Loss rate: 0.07%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 04:31:25

End at: 2018-05-25 04:31:55

Local clock offset: 0.389 ms

Remote clock offset: -0.084 ms

Below is generated by plot.py at 2018-05-25 07:09:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 275.19 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.10%

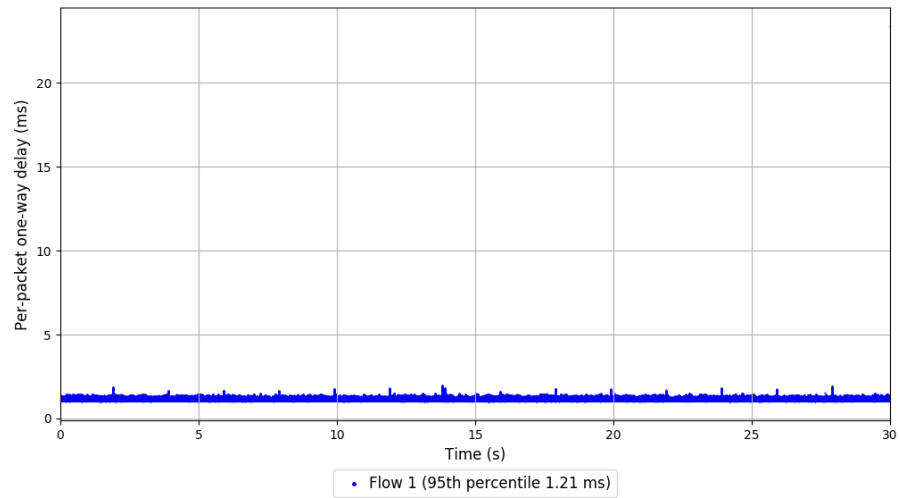
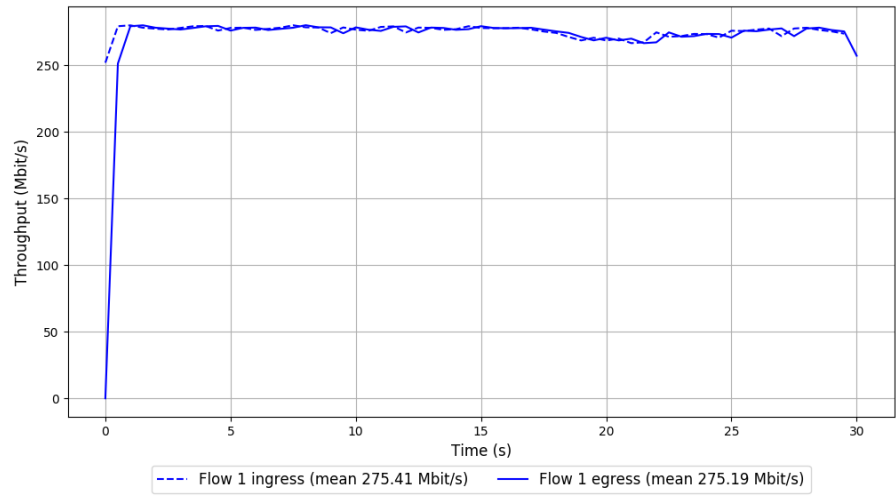
-- Flow 1:

Average throughput: 275.19 Mbit/s

95th percentile per-packet one-way delay: 1.212 ms

Loss rate: 0.10%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 04:55:33

End at: 2018-05-25 04:56:03

Local clock offset: 0.197 ms

Remote clock offset: -0.153 ms

Below is generated by plot.py at 2018-05-25 07:12:33

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.46 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.06%

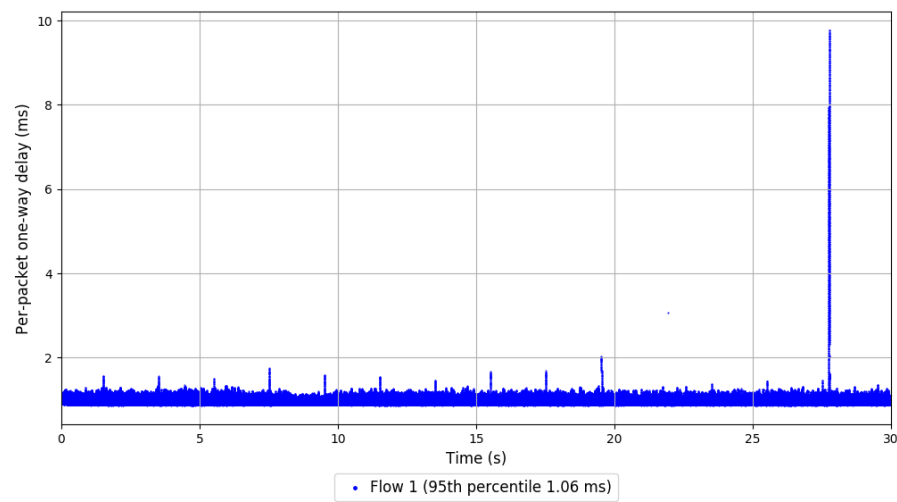
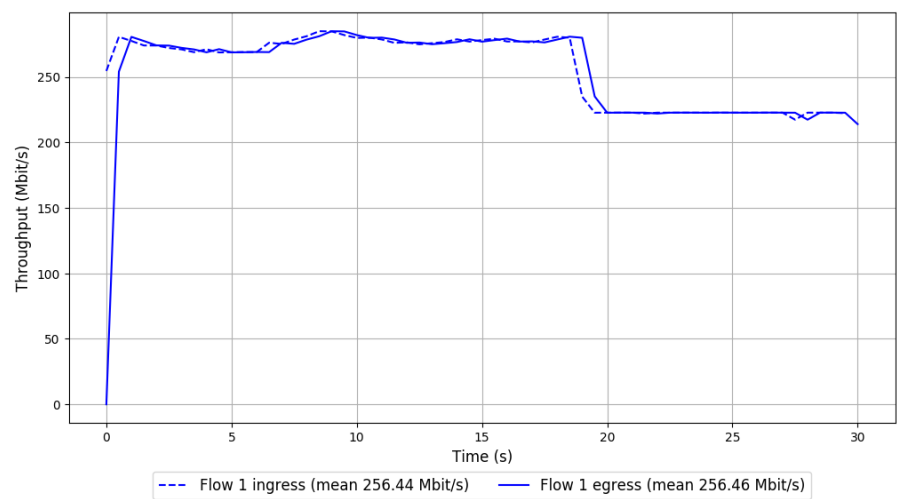
-- Flow 1:

Average throughput: 256.46 Mbit/s

95th percentile per-packet one-way delay: 1.064 ms

Loss rate: 0.06%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 05:20:01

End at: 2018-05-25 05:20:31

Local clock offset: 0.37 ms

Remote clock offset: -0.176 ms

Below is generated by plot.py at 2018-05-25 07:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 279.64 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.07%

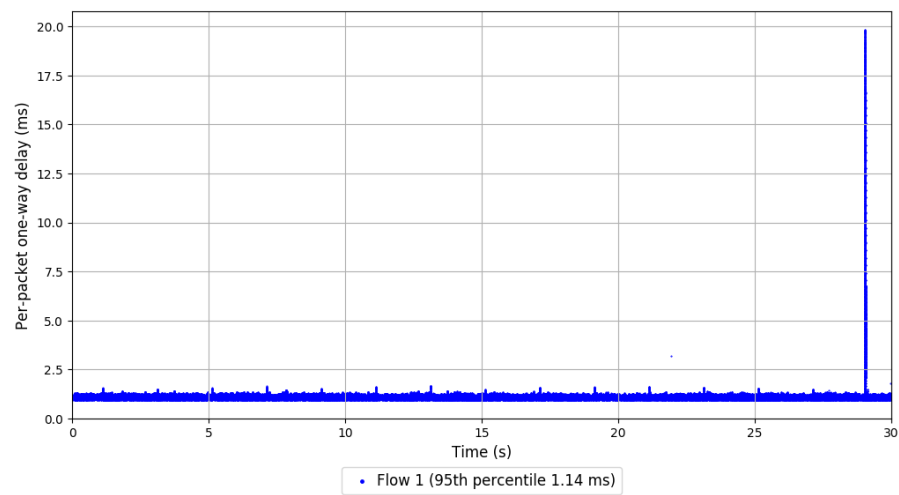
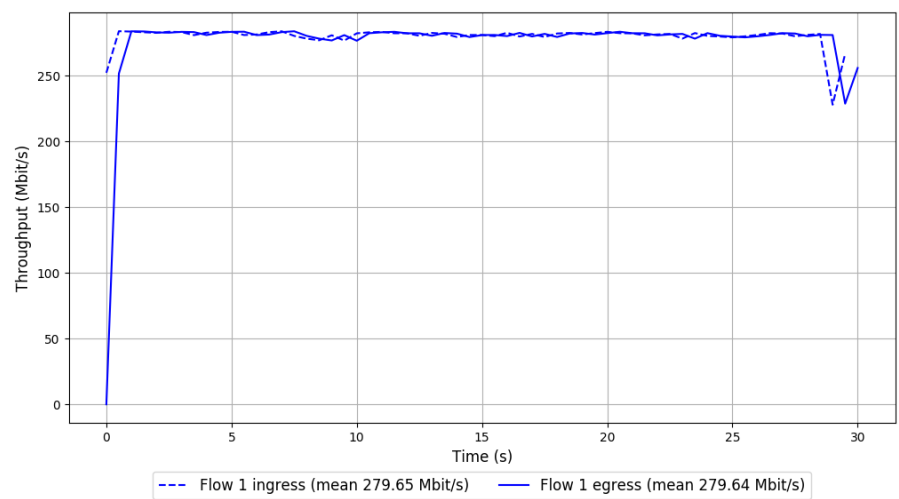
-- Flow 1:

Average throughput: 279.64 Mbit/s

95th percentile per-packet one-way delay: 1.136 ms

Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 01:41:11

End at: 2018-05-25 01:41:41

Local clock offset: 1.527 ms

Remote clock offset: 0.6 ms

Below is generated by plot.py at 2018-05-25 07:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 338.84 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.07%

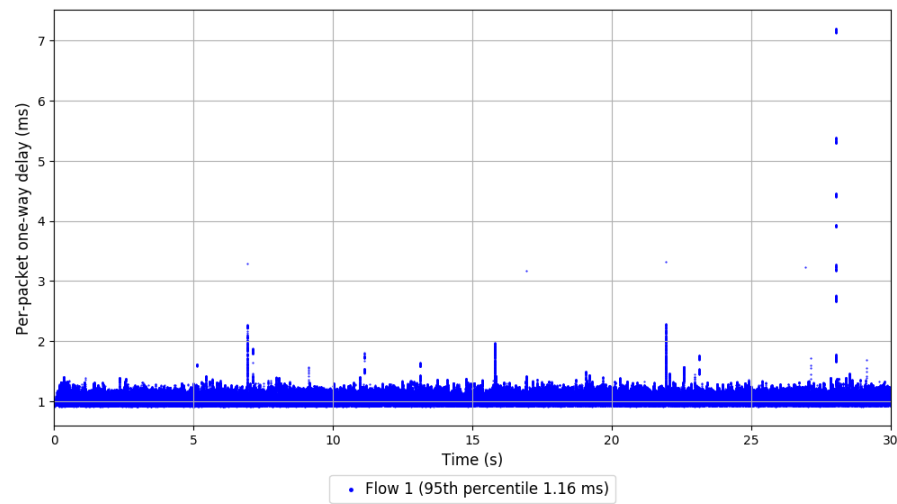
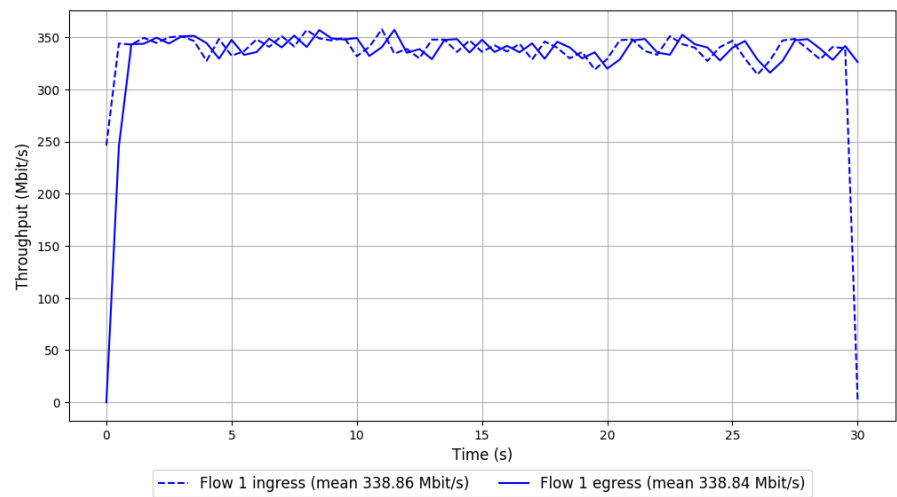
-- Flow 1:

Average throughput: 338.84 Mbit/s

95th percentile per-packet one-way delay: 1.155 ms

Loss rate: 0.07%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 02:05:41

End at: 2018-05-25 02:06:11

Local clock offset: 1.114 ms

Remote clock offset: 1.121 ms

Below is generated by plot.py at 2018-05-25 07:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 363.48 Mbit/s

95th percentile per-packet one-way delay: 32.744 ms

Loss rate: 0.03%

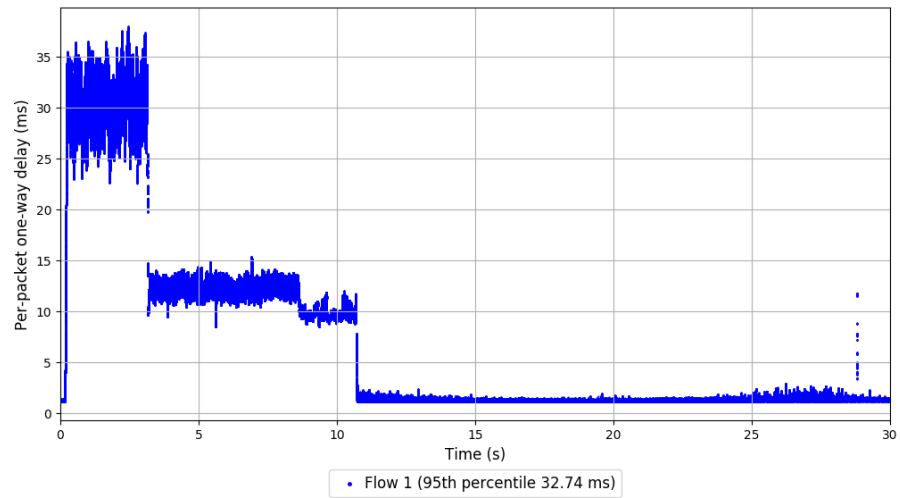
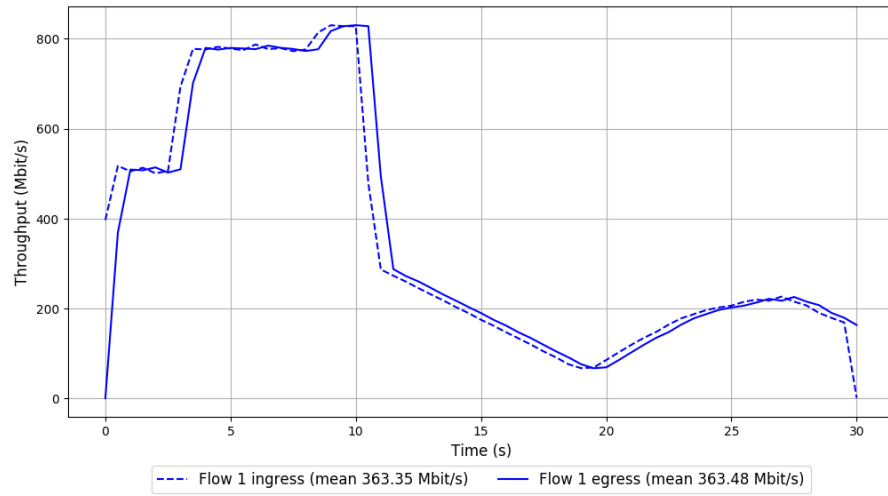
-- Flow 1:

Average throughput: 363.48 Mbit/s

95th percentile per-packet one-way delay: 32.744 ms

Loss rate: 0.03%

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 02:30:34

End at: 2018-05-25 02:31:04

Local clock offset: 0.351 ms

Remote clock offset: 1.692 ms

Below is generated by plot.py at 2018-05-25 07:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 332.66 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 0.06%

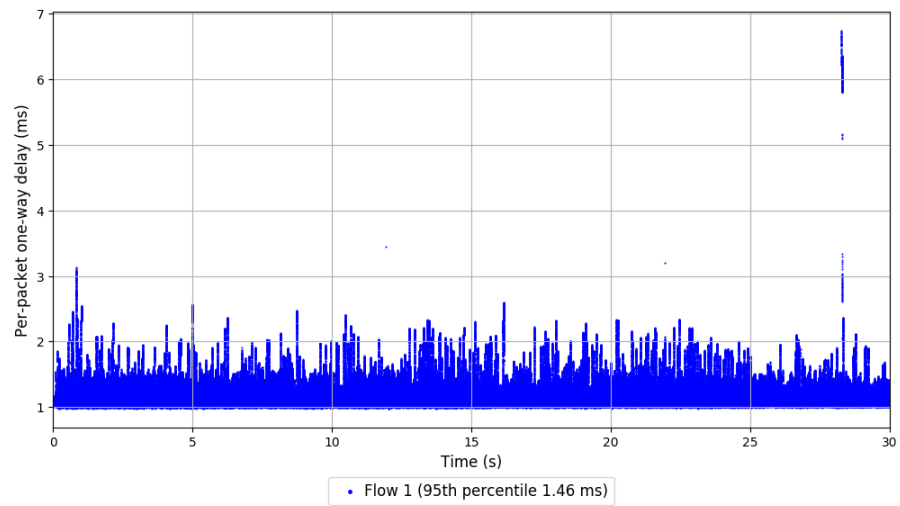
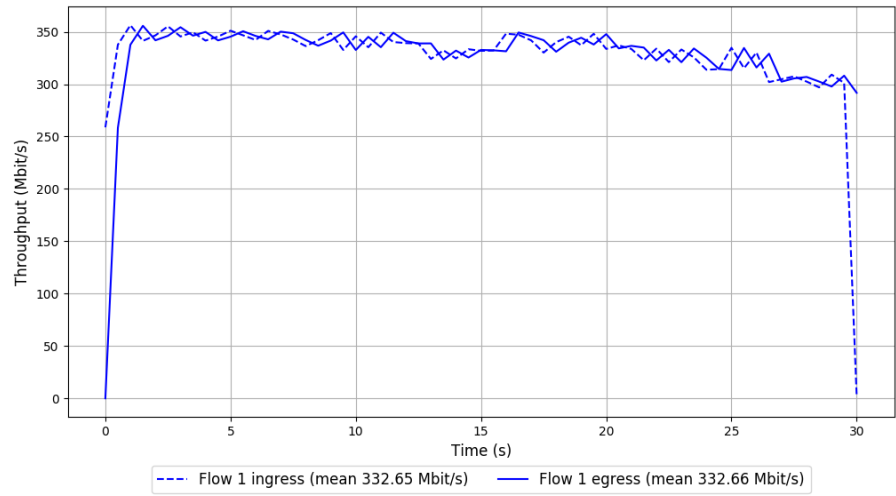
-- Flow 1:

Average throughput: 332.66 Mbit/s

95th percentile per-packet one-way delay: 1.461 ms

Loss rate: 0.06%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 02:55:04

End at: 2018-05-25 02:55:34

Local clock offset: 0.057 ms

Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-05-25 07:13:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.03%

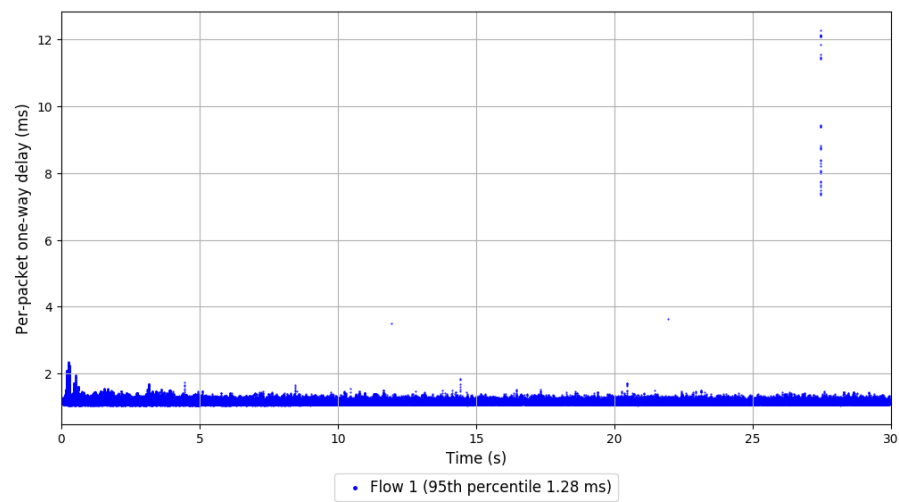
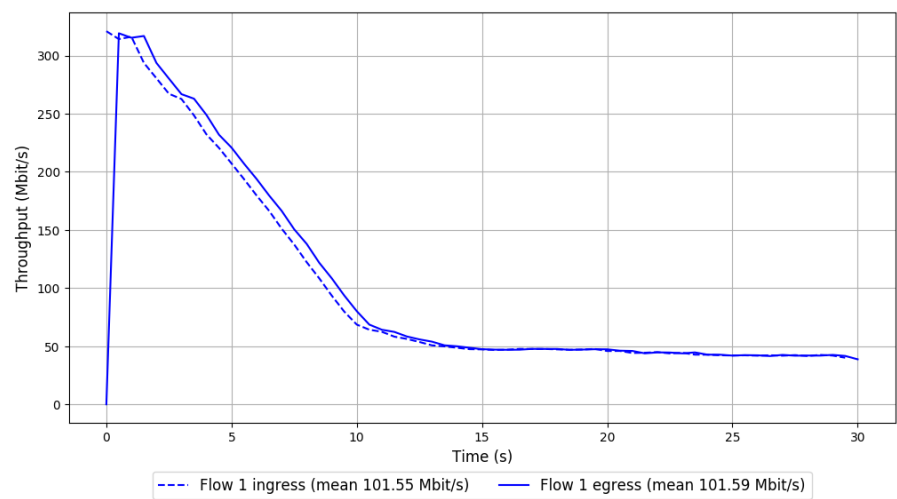
-- Flow 1:

Average throughput: 101.59 Mbit/s

95th percentile per-packet one-way delay: 1.276 ms

Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link

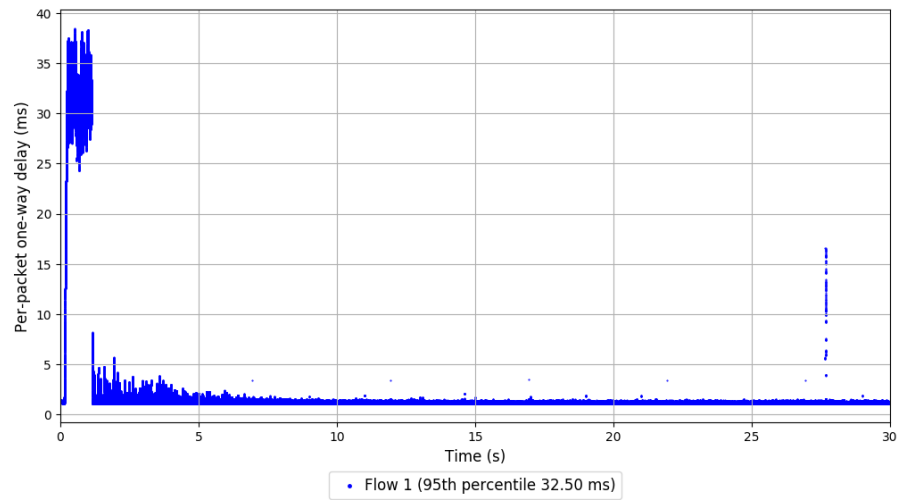
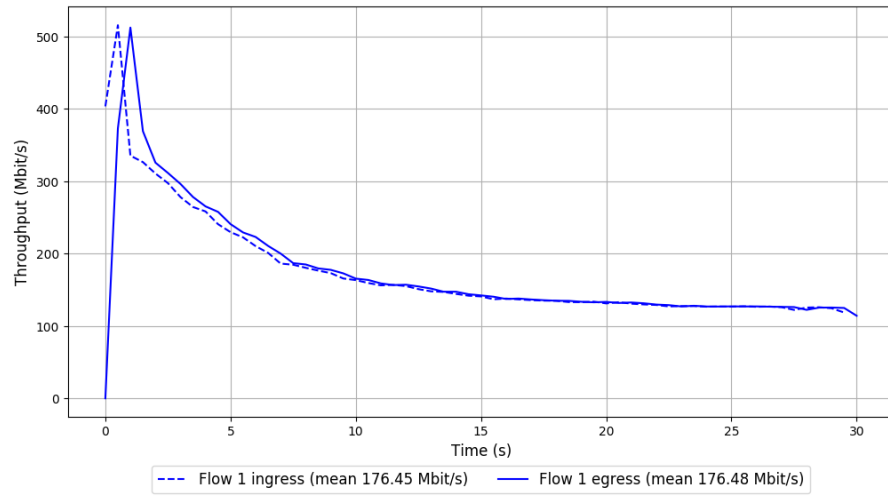


Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 03:19:22
End at: 2018-05-25 03:19:52
Local clock offset: 0.357 ms
Remote clock offset: -0.117 ms

Below is generated by plot.py at 2018-05-25 07:13:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 176.48 Mbit/s
95th percentile per-packet one-way delay: 32.498 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 176.48 Mbit/s
95th percentile per-packet one-way delay: 32.498 ms
Loss rate: 0.05%

Run 5: Report of TCP Vegas — Data Link

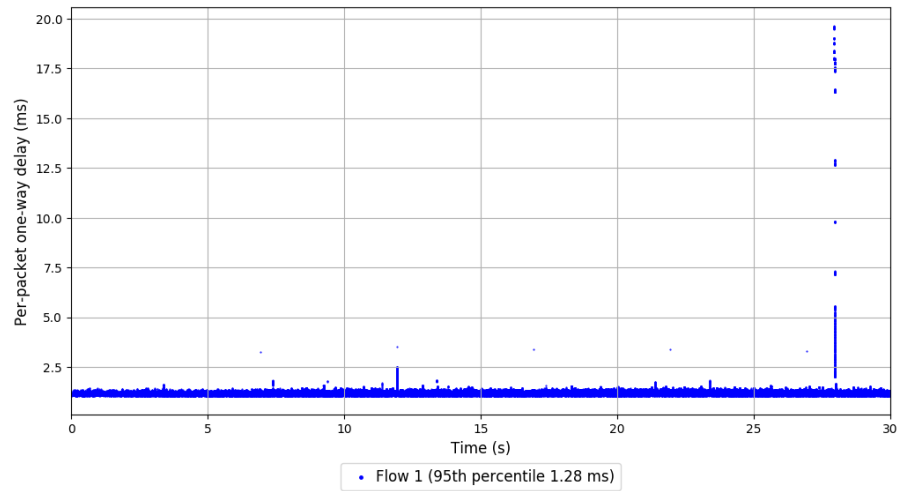
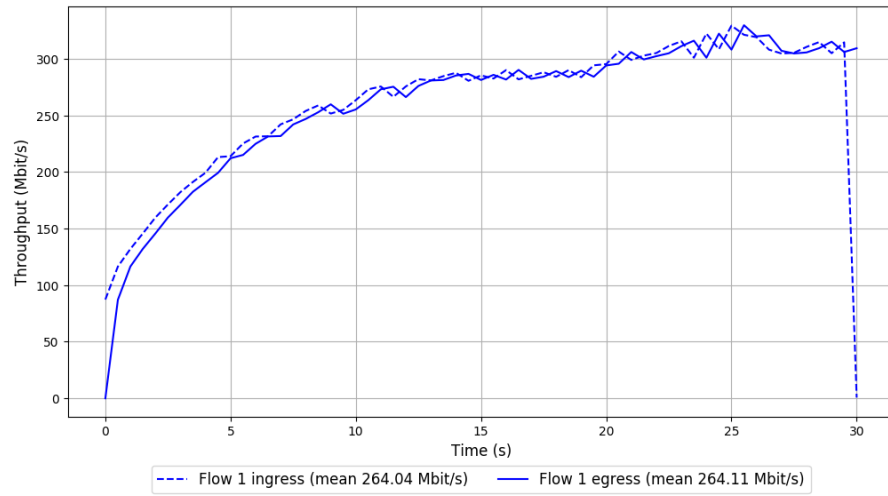


Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 03:43:49
End at: 2018-05-25 03:44:19
Local clock offset: 0.343 ms
Remote clock offset: -0.003 ms

Below is generated by plot.py at 2018-05-25 07:13:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 264.11 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 264.11 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.04%

Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 04:08:20

End at: 2018-05-25 04:08:50

Local clock offset: 0.403 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-05-25 07:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 572.24 Mbit/s

95th percentile per-packet one-way delay: 27.411 ms

Loss rate: 0.10%

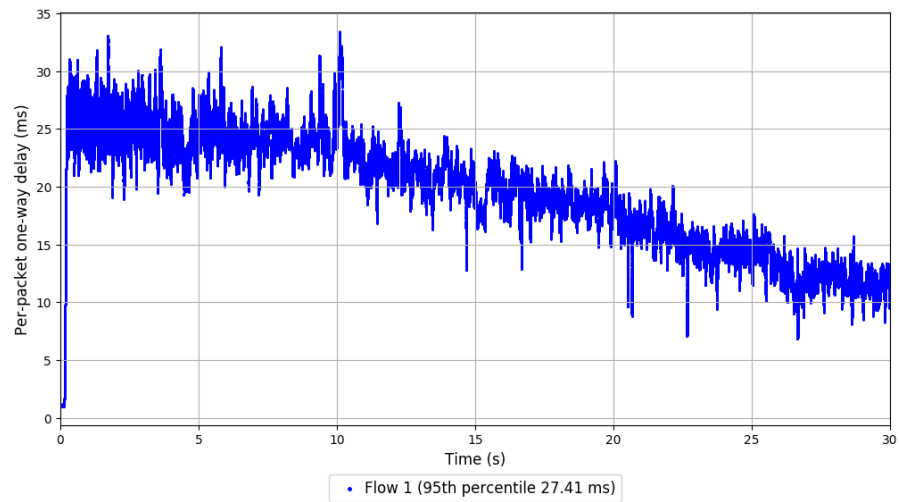
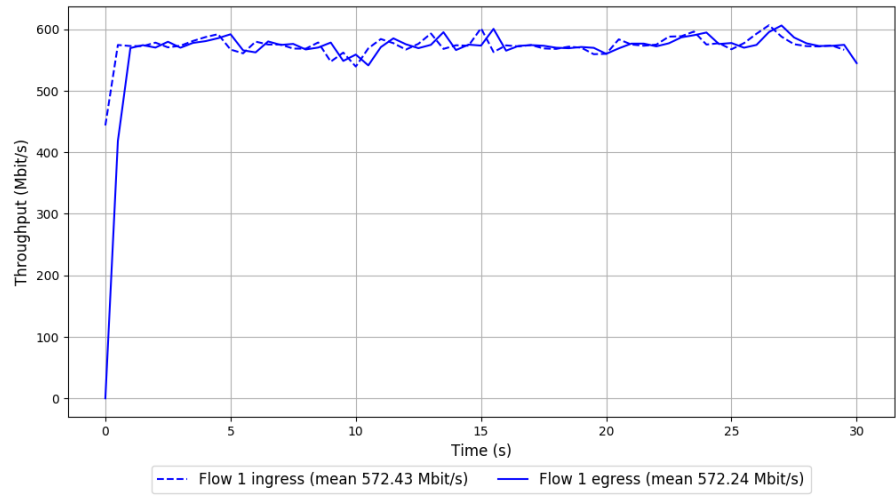
-- Flow 1:

Average throughput: 572.24 Mbit/s

95th percentile per-packet one-way delay: 27.411 ms

Loss rate: 0.10%

Run 7: Report of TCP Vegas — Data Link

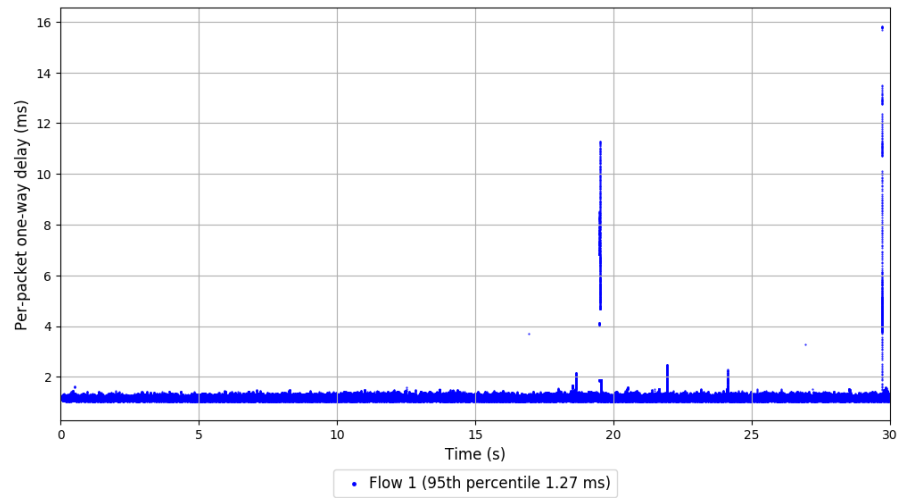
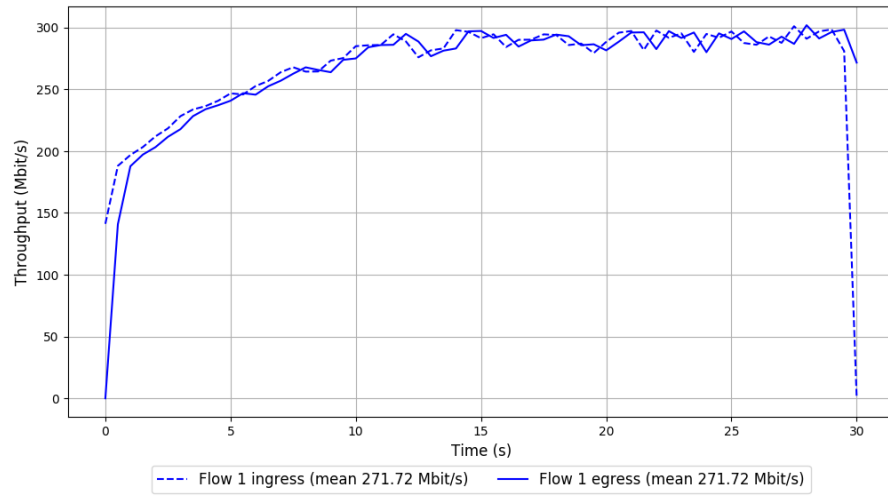


Run 8: Statistics of TCP Vegas

Start at: 2018-05-25 04:32:58
End at: 2018-05-25 04:33:28
Local clock offset: 0.391 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-05-25 07:17:04
Datalink statistics
-- Total of 1 flow:
Average throughput: 271.72 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 271.72 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.07%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 04:57:12

End at: 2018-05-25 04:57:42

Local clock offset: 0.283 ms

Remote clock offset: -0.21 ms

Below is generated by plot.py at 2018-05-25 07:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 394.87 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.07%

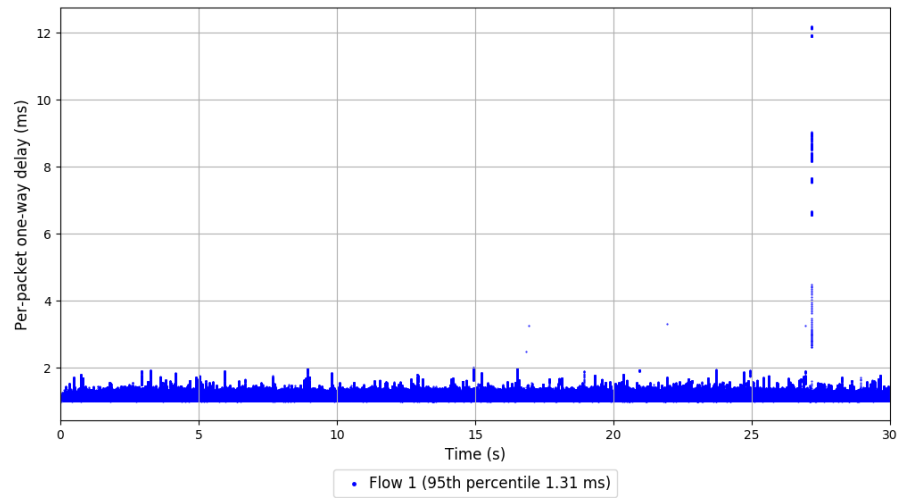
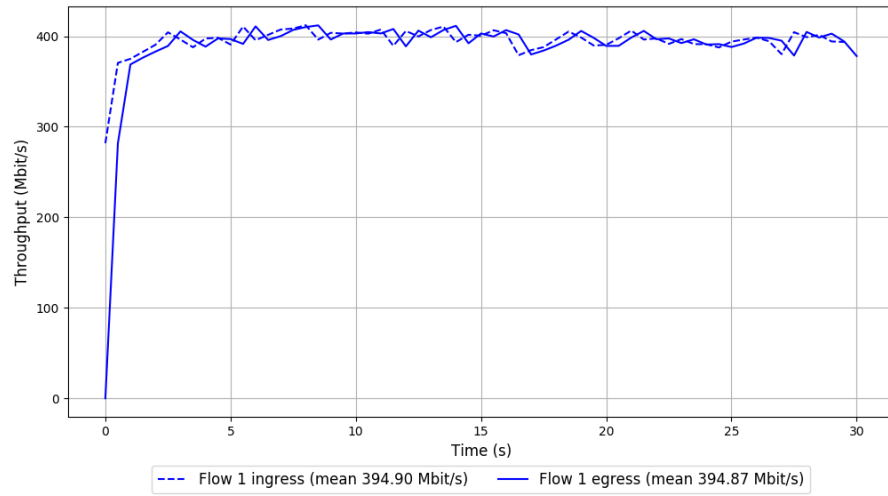
-- Flow 1:

Average throughput: 394.87 Mbit/s

95th percentile per-packet one-way delay: 1.312 ms

Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 05:21:35

End at: 2018-05-25 05:22:05

Local clock offset: 0.267 ms

Remote clock offset: -0.151 ms

Below is generated by plot.py at 2018-05-25 07:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.80 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.05%

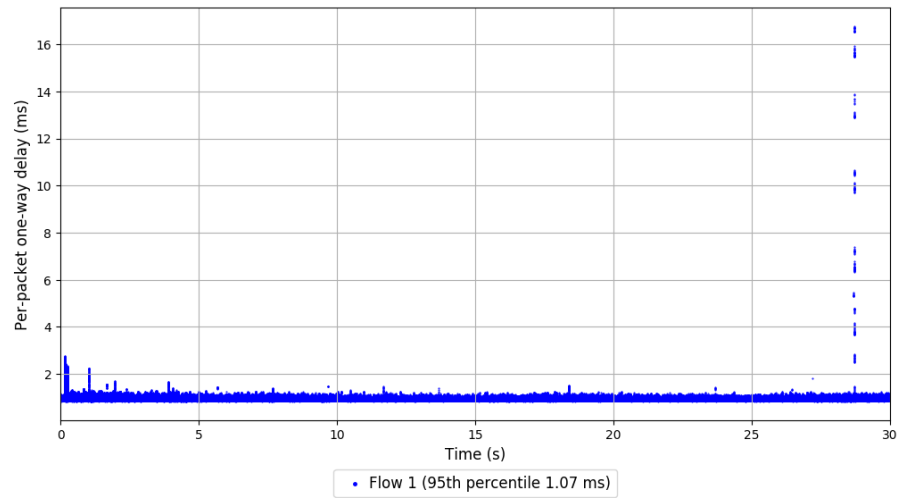
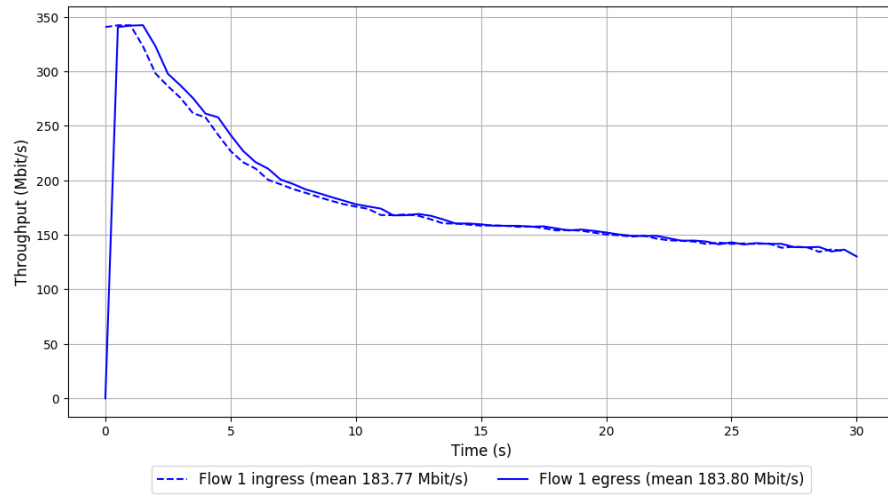
-- Flow 1:

Average throughput: 183.80 Mbit/s

95th percentile per-packet one-way delay: 1.072 ms

Loss rate: 0.05%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-25 01:42:42

End at: 2018-05-25 01:43:12

Local clock offset: 1.535 ms

Remote clock offset: 0.678 ms

Below is generated by plot.py at 2018-05-25 07:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 342.99 Mbit/s

95th percentile per-packet one-way delay: 9.175 ms

Loss rate: 0.12%

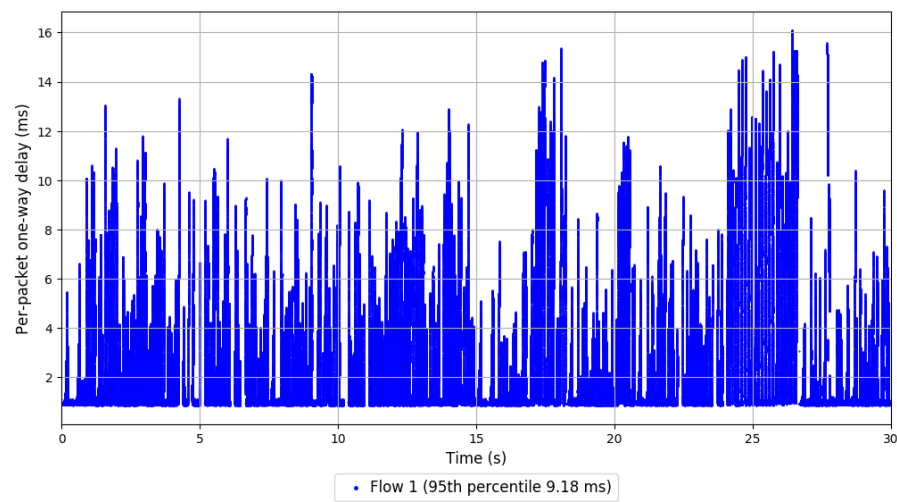
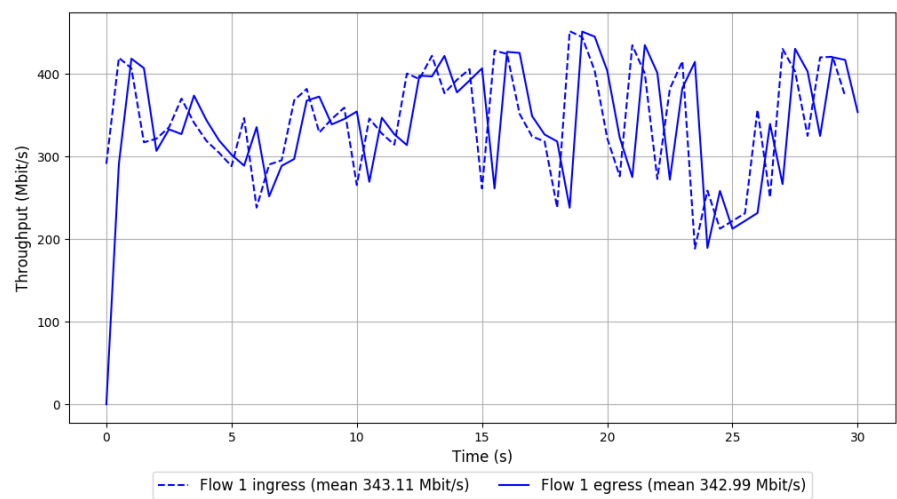
-- Flow 1:

Average throughput: 342.99 Mbit/s

95th percentile per-packet one-way delay: 9.175 ms

Loss rate: 0.12%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-25 02:07:10

End at: 2018-05-25 02:07:40

Local clock offset: 0.92 ms

Remote clock offset: 1.208 ms

Below is generated by plot.py at 2018-05-25 07:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 227.00 Mbit/s

95th percentile per-packet one-way delay: 3.714 ms

Loss rate: 0.07%

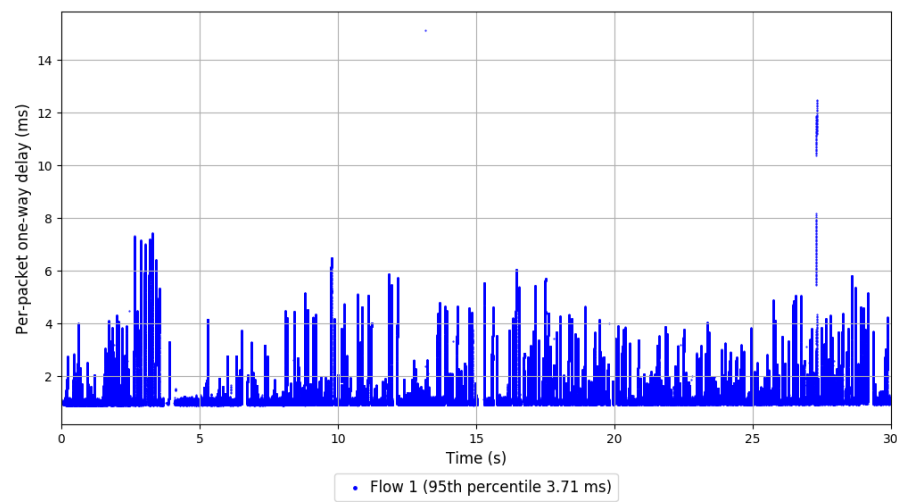
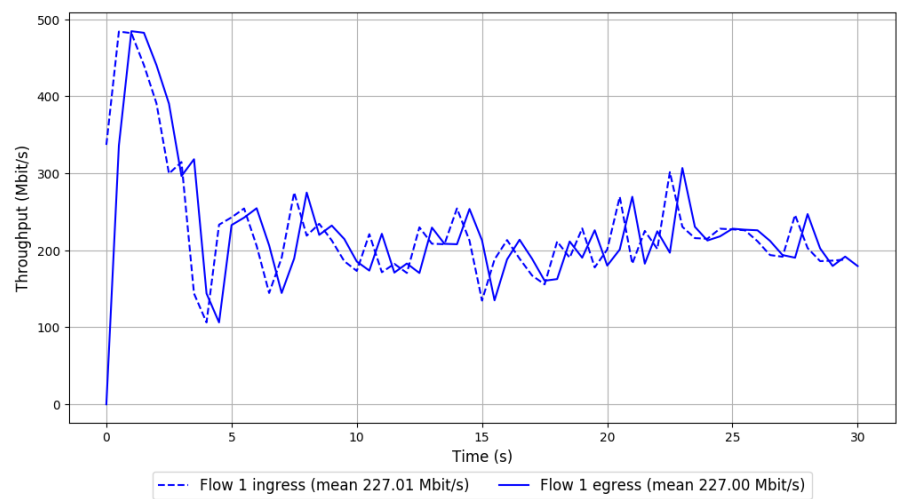
-- Flow 1:

Average throughput: 227.00 Mbit/s

95th percentile per-packet one-way delay: 3.714 ms

Loss rate: 0.07%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-25 02:32:05

End at: 2018-05-25 02:32:35

Local clock offset: 0.243 ms

Remote clock offset: 1.723 ms

Below is generated by plot.py at 2018-05-25 07:17:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 250.99 Mbit/s

95th percentile per-packet one-way delay: 5.923 ms

Loss rate: 0.00%

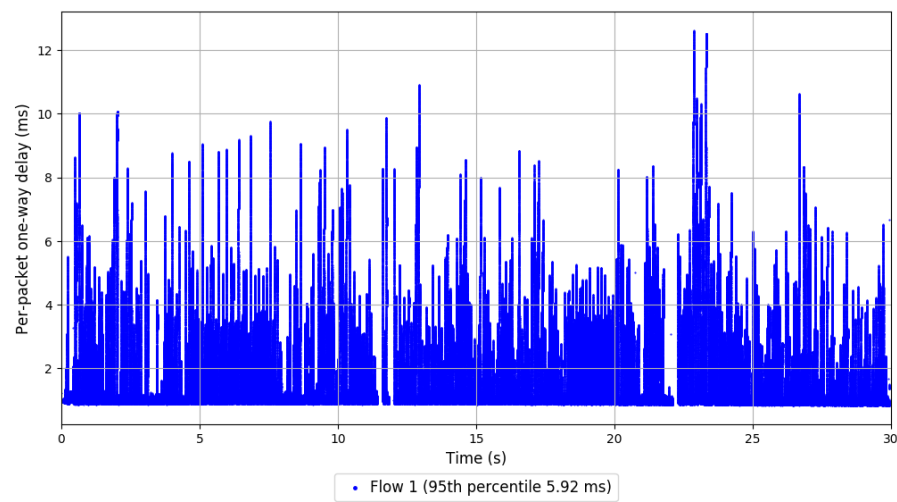
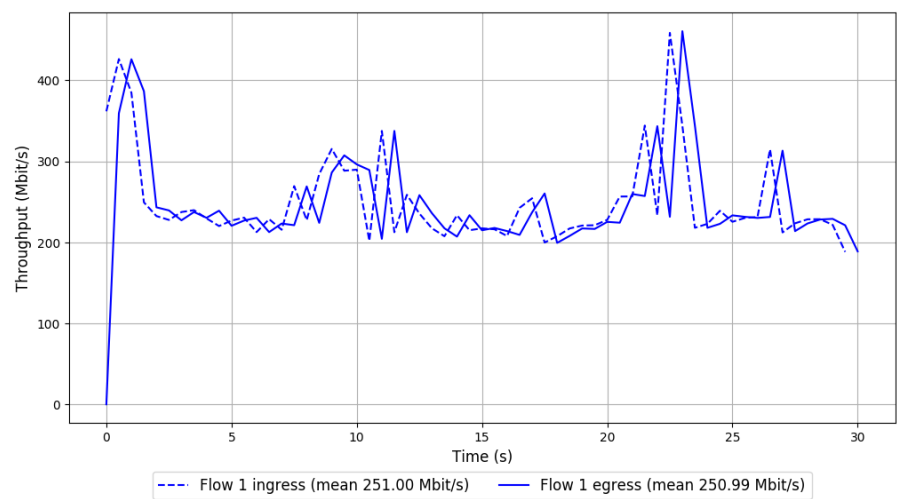
-- Flow 1:

Average throughput: 250.99 Mbit/s

95th percentile per-packet one-way delay: 5.923 ms

Loss rate: 0.00%

Run 3: Report of Verus — Data Link

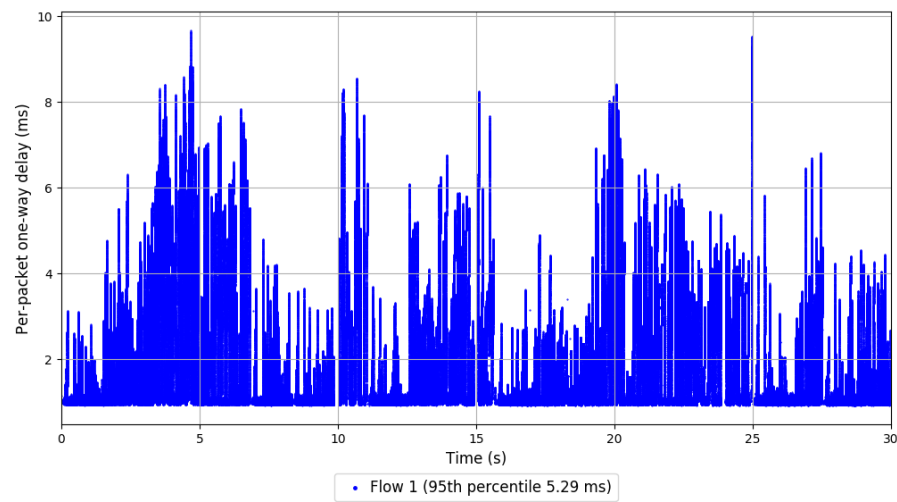
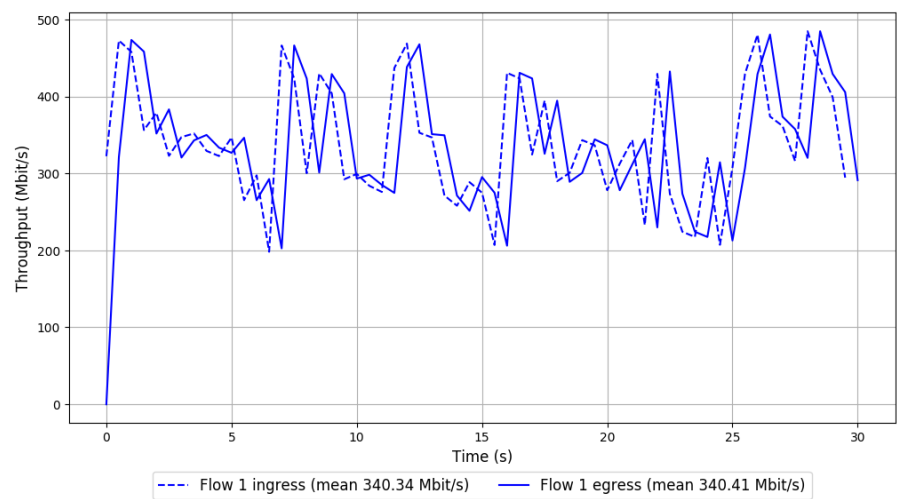


Run 4: Statistics of Verus

Start at: 2018-05-25 02:56:25
End at: 2018-05-25 02:56:55
Local clock offset: -0.029 ms
Remote clock offset: -0.096 ms

Below is generated by plot.py at 2018-05-25 07:18:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 340.41 Mbit/s
95th percentile per-packet one-way delay: 5.294 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 340.41 Mbit/s
95th percentile per-packet one-way delay: 5.294 ms
Loss rate: 0.02%

Run 4: Report of Verus — Data Link

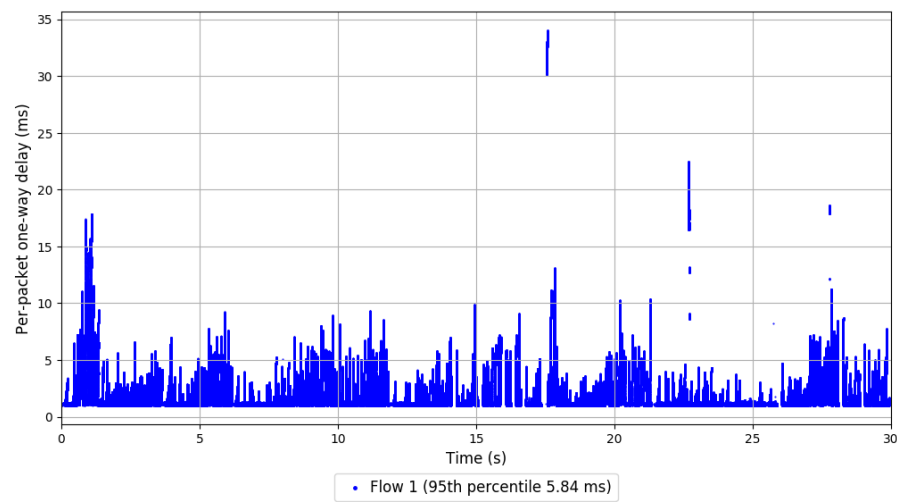
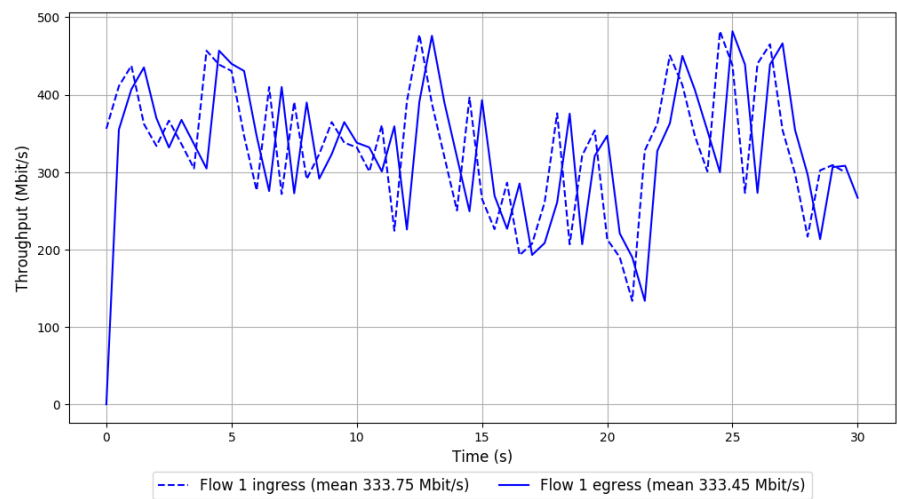


Run 5: Statistics of Verus

Start at: 2018-05-25 03:20:46
End at: 2018-05-25 03:21:16
Local clock offset: 0.326 ms
Remote clock offset: -0.099 ms

Below is generated by plot.py at 2018-05-25 07:18:28
Datalink statistics
-- Total of 1 flow:
Average throughput: 333.45 Mbit/s
95th percentile per-packet one-way delay: 5.837 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 333.45 Mbit/s
95th percentile per-packet one-way delay: 5.837 ms
Loss rate: 0.17%

Run 5: Report of Verus — Data Link

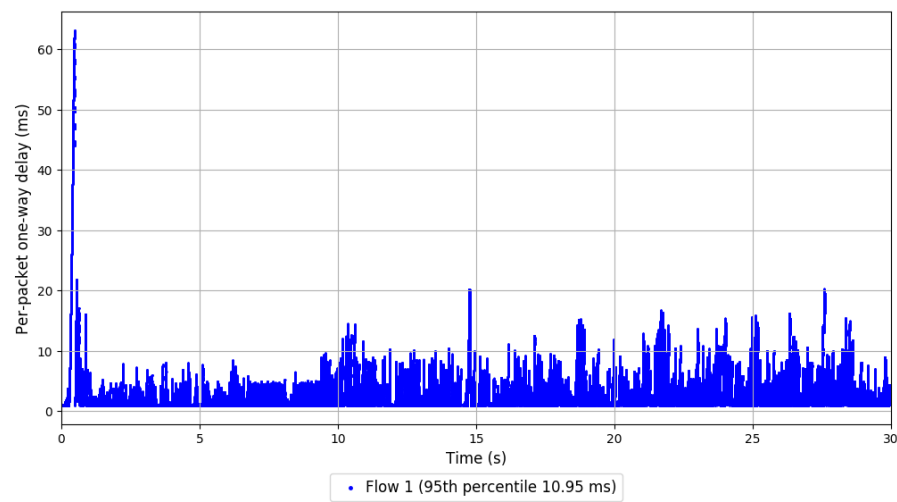
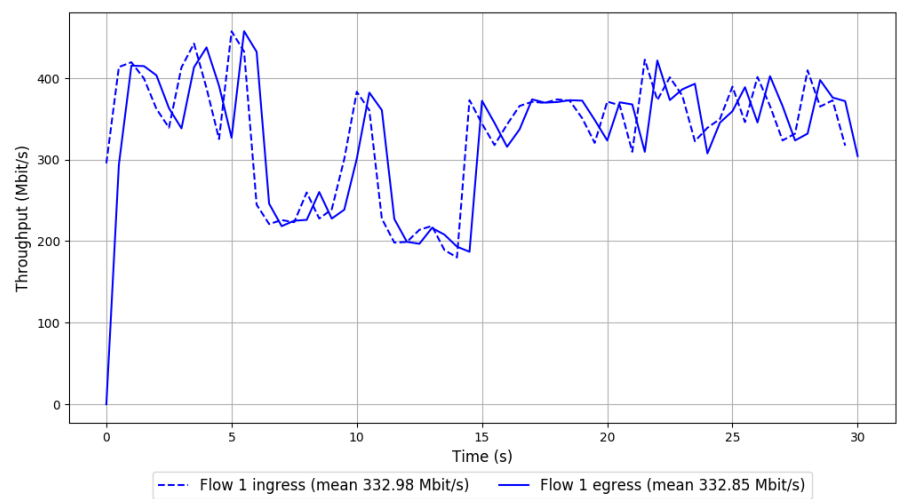


Run 6: Statistics of Verus

Start at: 2018-05-25 03:45:17
End at: 2018-05-25 03:45:47
Local clock offset: 0.243 ms
Remote clock offset: -0.012 ms

Below is generated by plot.py at 2018-05-25 07:18:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 332.85 Mbit/s
95th percentile per-packet one-way delay: 10.954 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 332.85 Mbit/s
95th percentile per-packet one-way delay: 10.954 ms
Loss rate: 0.07%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-25 04:09:57

End at: 2018-05-25 04:10:27

Local clock offset: 0.396 ms

Remote clock offset: 0.089 ms

Below is generated by plot.py at 2018-05-25 07:18:58

Datalink statistics

-- Total of 1 flow:

Average throughput: 267.32 Mbit/s

95th percentile per-packet one-way delay: 26.397 ms

Loss rate: 0.04%

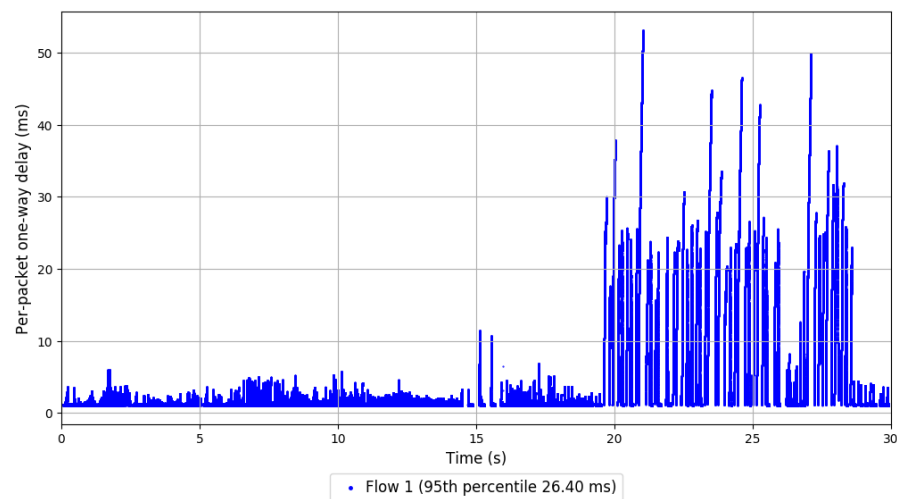
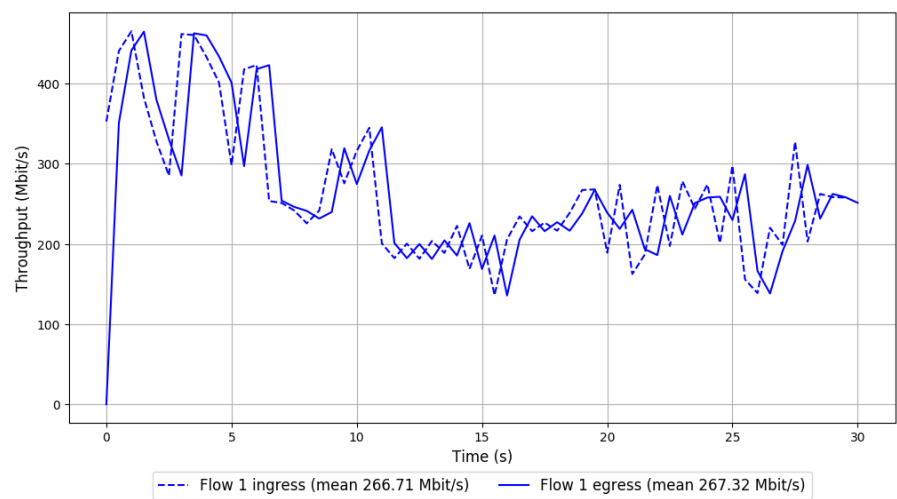
-- Flow 1:

Average throughput: 267.32 Mbit/s

95th percentile per-packet one-way delay: 26.397 ms

Loss rate: 0.04%

Run 7: Report of Verus — Data Link

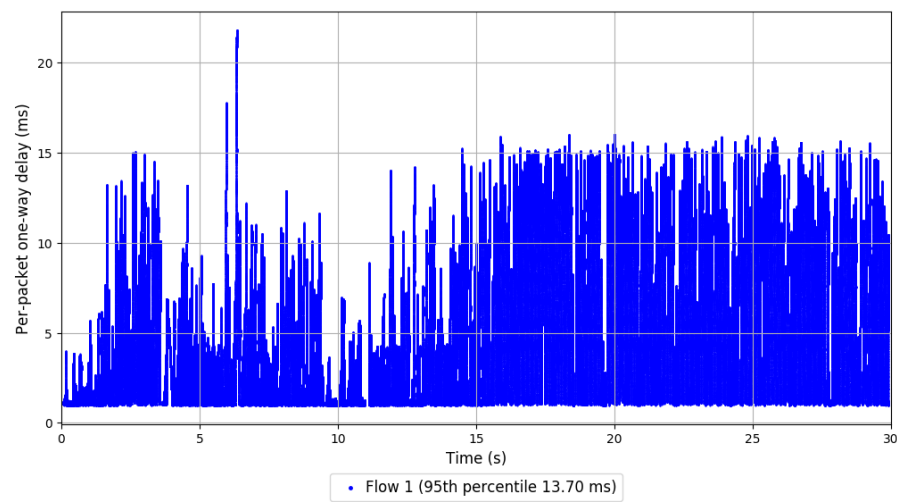
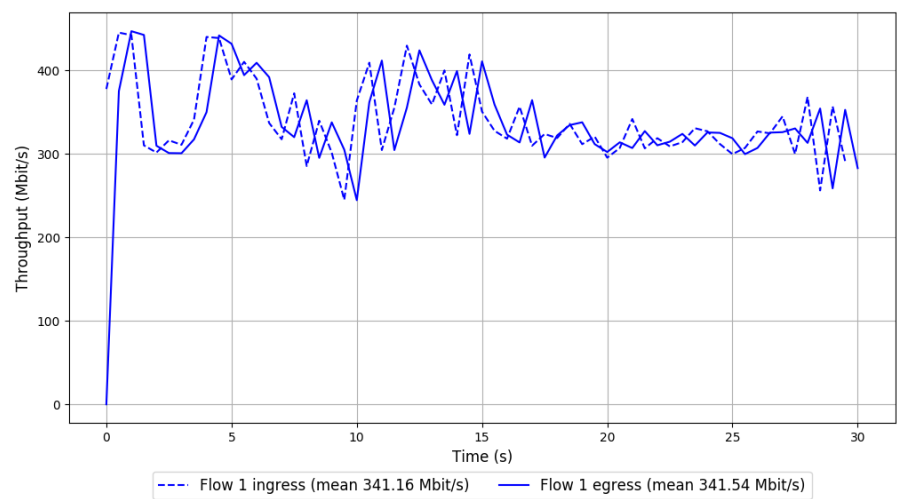


Run 8: Statistics of Verus

Start at: 2018-05-25 04:34:26
End at: 2018-05-25 04:34:56
Local clock offset: 0.283 ms
Remote clock offset: -0.122 ms

Below is generated by plot.py at 2018-05-25 07:20:44
Datalink statistics
-- Total of 1 flow:
Average throughput: 341.54 Mbit/s
95th percentile per-packet one-way delay: 13.700 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 341.54 Mbit/s
95th percentile per-packet one-way delay: 13.700 ms
Loss rate: 0.14%

Run 8: Report of Verus — Data Link

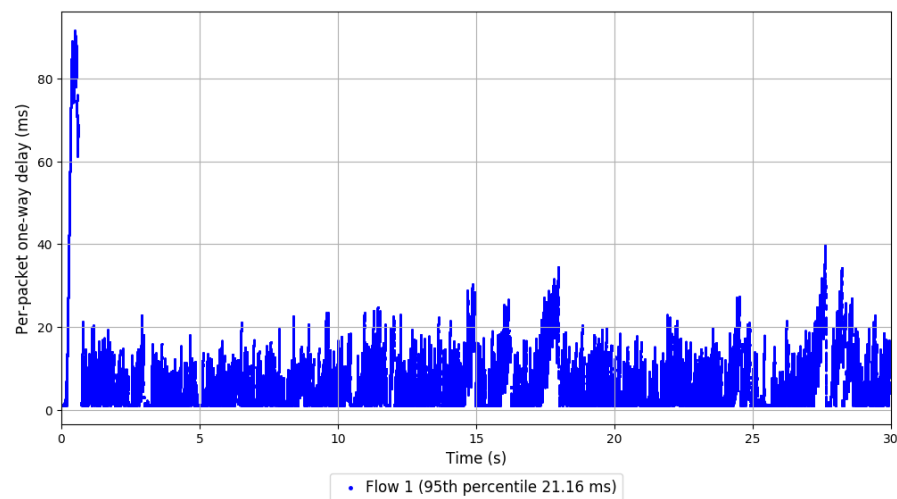
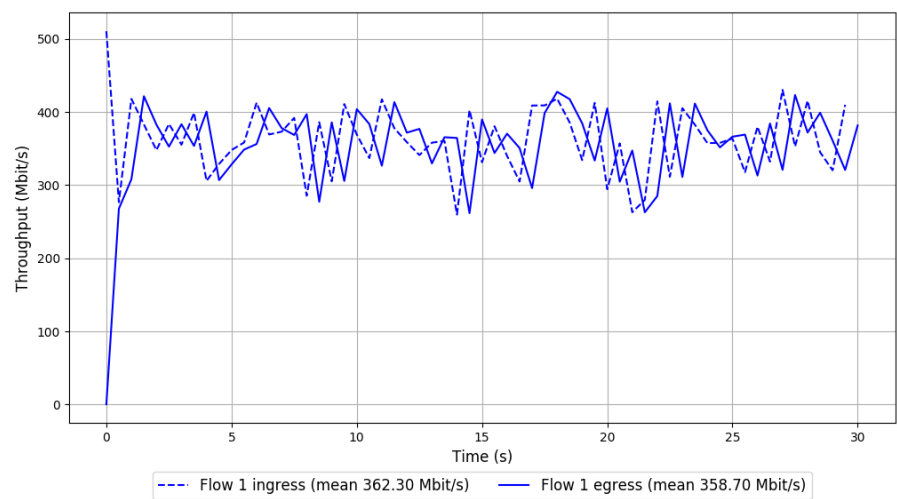


Run 9: Statistics of Verus

Start at: 2018-05-25 04:58:43
End at: 2018-05-25 04:59:13
Local clock offset: 0.286 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-05-25 07:20:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 358.70 Mbit/s
95th percentile per-packet one-way delay: 21.159 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 358.70 Mbit/s
95th percentile per-packet one-way delay: 21.159 ms
Loss rate: 1.06%

Run 9: Report of Verus — Data Link

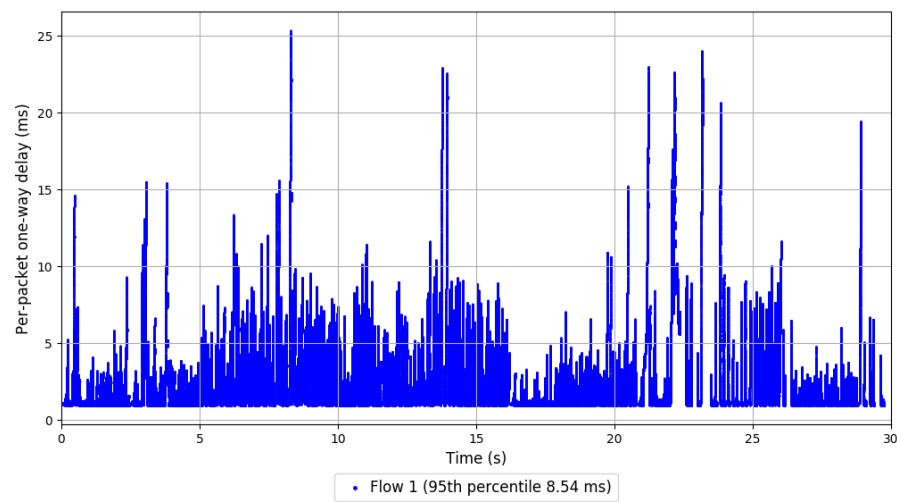
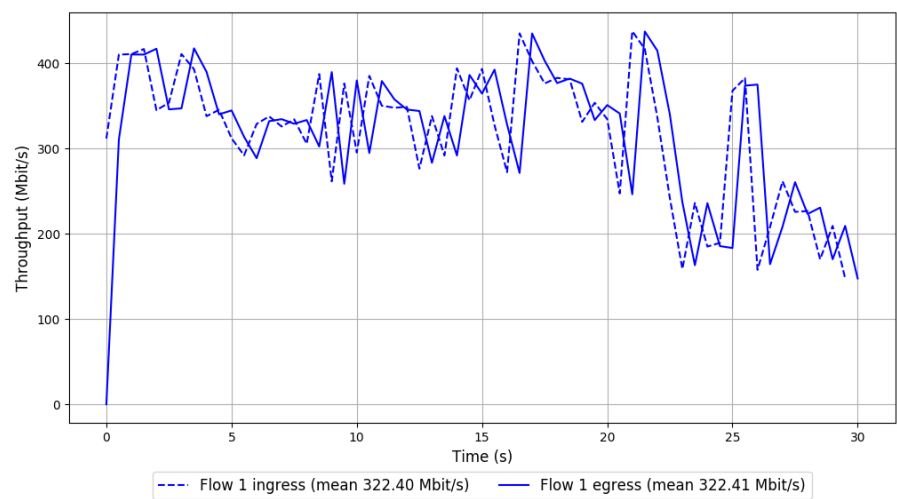


Run 10: Statistics of Verus

Start at: 2018-05-25 05:22:59
End at: 2018-05-25 05:23:29
Local clock offset: 0.368 ms
Remote clock offset: -0.144 ms

Below is generated by plot.py at 2018-05-25 07:20:56
Datalink statistics
-- Total of 1 flow:
Average throughput: 322.41 Mbit/s
95th percentile per-packet one-way delay: 8.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 322.41 Mbit/s
95th percentile per-packet one-way delay: 8.545 ms
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 01:25:43

End at: 2018-05-25 01:26:13

Local clock offset: 1.445 ms

Remote clock offset: 0.239 ms

Below is generated by plot.py at 2018-05-25 07:21:41

Datalink statistics

-- Total of 1 flow:

Average throughput: 347.00 Mbit/s

95th percentile per-packet one-way delay: 10.803 ms

Loss rate: 0.10%

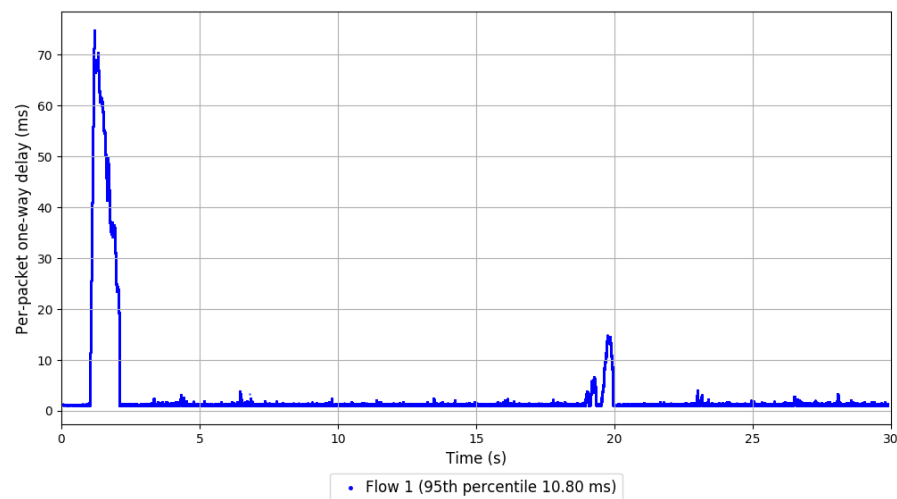
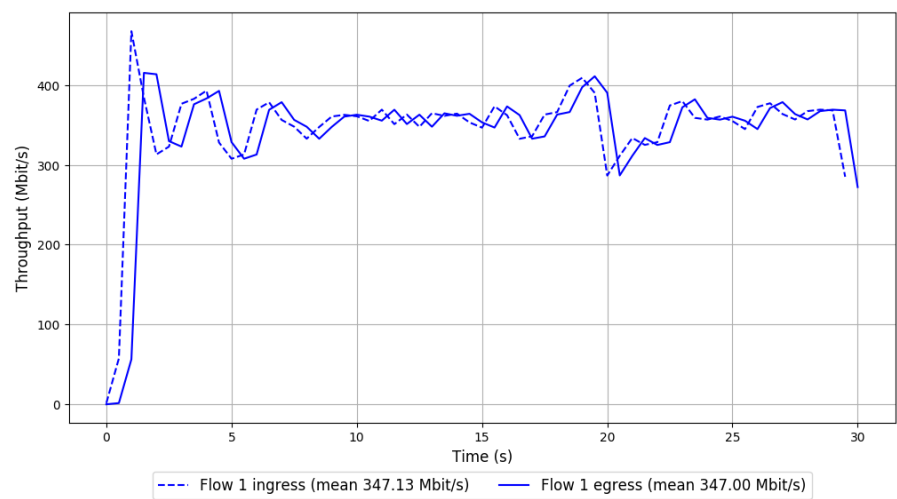
-- Flow 1:

Average throughput: 347.00 Mbit/s

95th percentile per-packet one-way delay: 10.803 ms

Loss rate: 0.10%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 01:50:19

End at: 2018-05-25 01:50:49

Local clock offset: 1.683 ms

Remote clock offset: 0.757 ms

Below is generated by plot.py at 2018-05-25 07:22:23

Datalink statistics

-- Total of 1 flow:

Average throughput: 337.26 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 0.08%

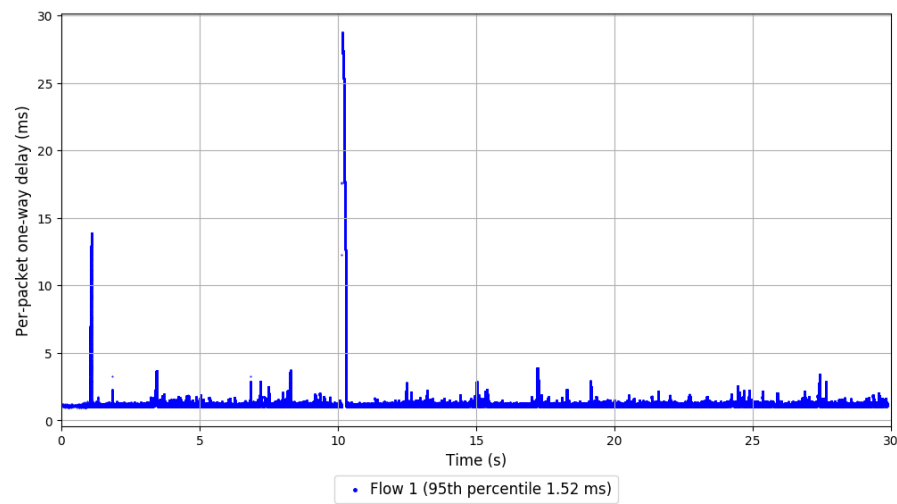
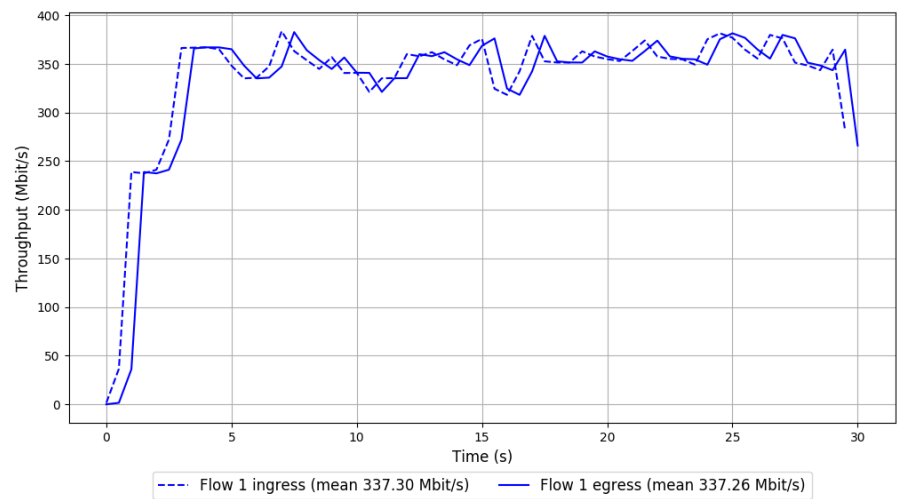
-- Flow 1:

Average throughput: 337.26 Mbit/s

95th percentile per-packet one-way delay: 1.523 ms

Loss rate: 0.08%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 02:14:45

End at: 2018-05-25 02:15:15

Local clock offset: 0.664 ms

Remote clock offset: 1.358 ms

Below is generated by plot.py at 2018-05-25 07:24:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 493.82 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.06%

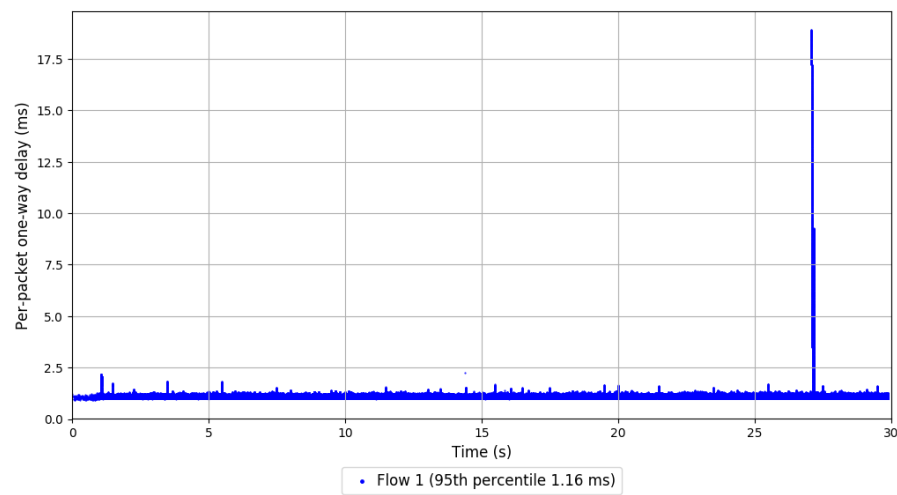
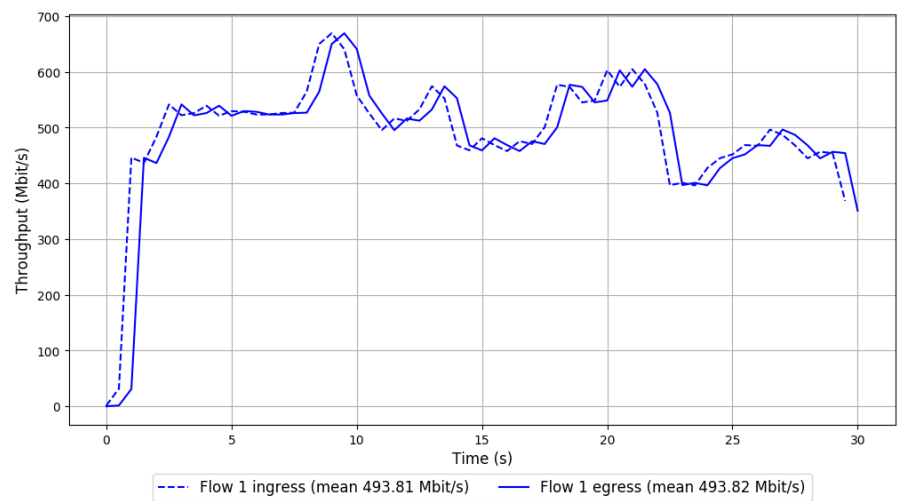
-- Flow 1:

Average throughput: 493.82 Mbit/s

95th percentile per-packet one-way delay: 1.161 ms

Loss rate: 0.06%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 02:39:38

End at: 2018-05-25 02:40:08

Local clock offset: 0.247 ms

Remote clock offset: 0.656 ms

Below is generated by plot.py at 2018-05-25 07:25:17

Datalink statistics

-- Total of 1 flow:

Average throughput: 475.87 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.06%

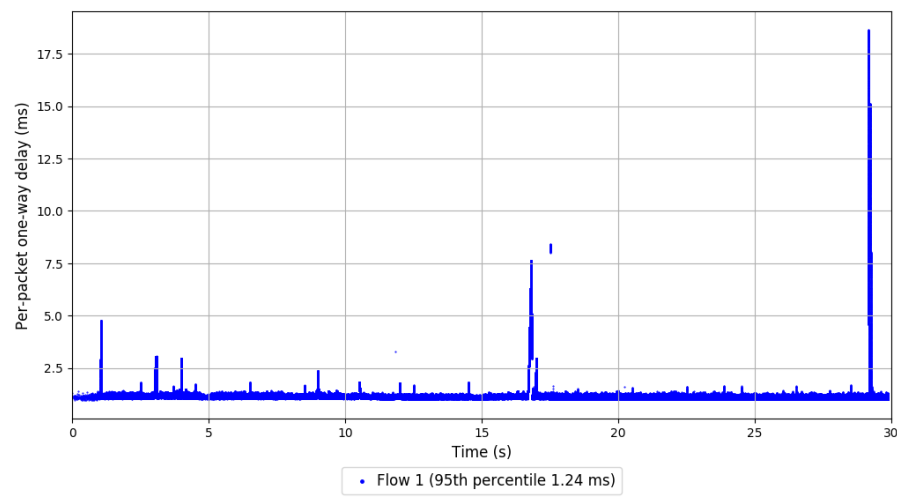
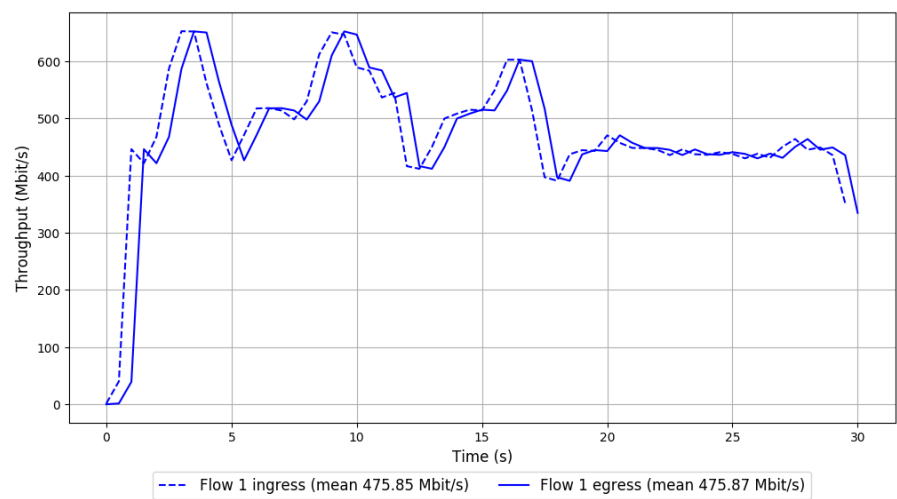
-- Flow 1:

Average throughput: 475.87 Mbit/s

95th percentile per-packet one-way delay: 1.237 ms

Loss rate: 0.06%

Run 4: Report of PCC-Vivace — Data Link

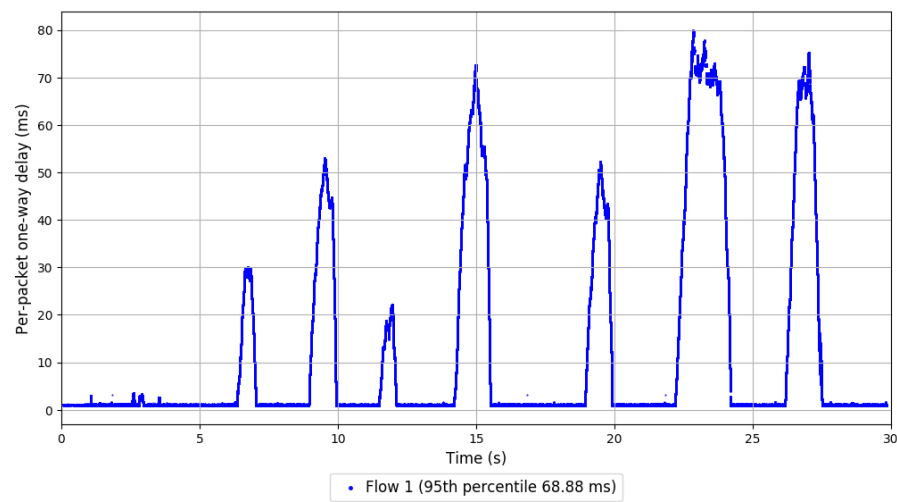
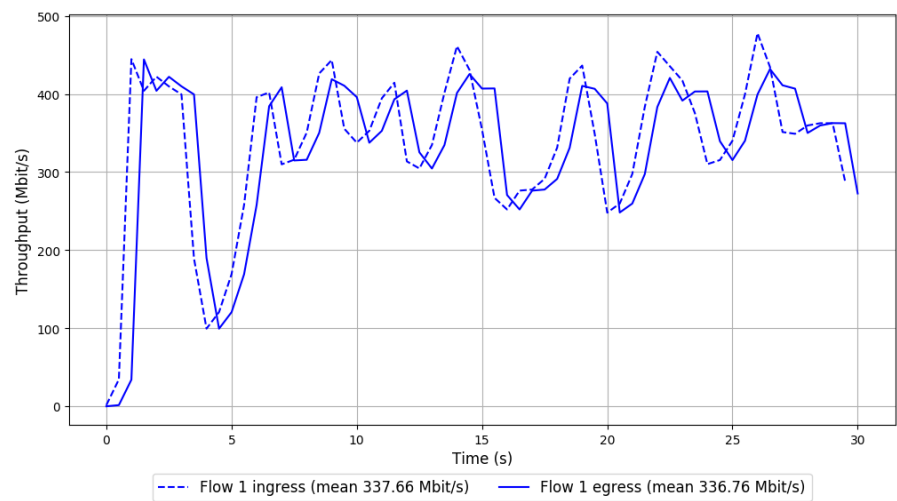


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 03:04:01
End at: 2018-05-25 03:04:31
Local clock offset: 0.184 ms
Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-05-25 07:25:17
Datalink statistics
-- Total of 1 flow:
Average throughput: 336.76 Mbit/s
95th percentile per-packet one-way delay: 68.882 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 336.76 Mbit/s
95th percentile per-packet one-way delay: 68.882 ms
Loss rate: 0.33%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 03:28:20

End at: 2018-05-25 03:28:50

Local clock offset: 0.311 ms

Remote clock offset: -0.064 ms

Below is generated by plot.py at 2018-05-25 07:25:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.08 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.06%

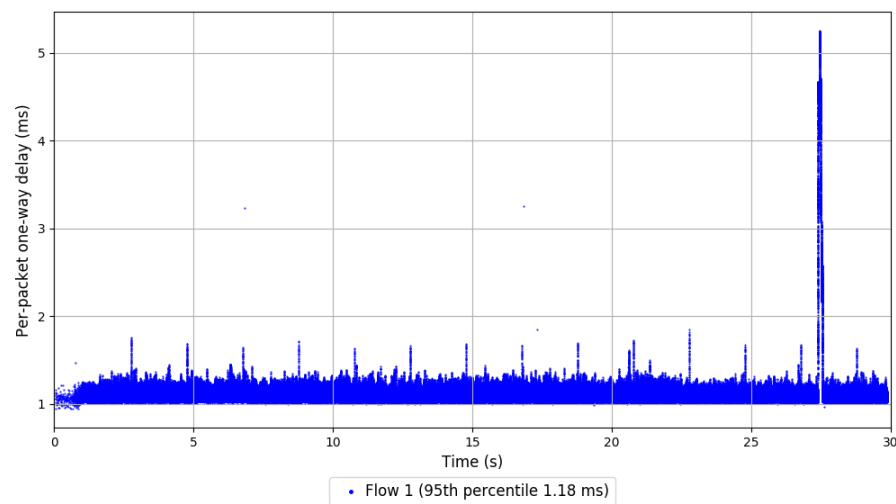
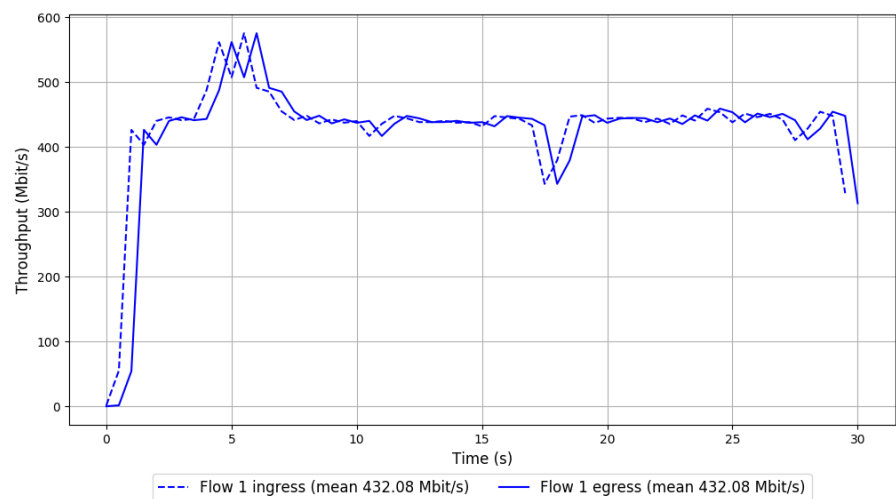
-- Flow 1:

Average throughput: 432.08 Mbit/s

95th percentile per-packet one-way delay: 1.176 ms

Loss rate: 0.06%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 03:52:57

End at: 2018-05-25 03:53:27

Local clock offset: 0.295 ms

Remote clock offset: 0.11 ms

Below is generated by plot.py at 2018-05-25 07:25:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 408.70 Mbit/s

95th percentile per-packet one-way delay: 29.164 ms

Loss rate: 0.37%

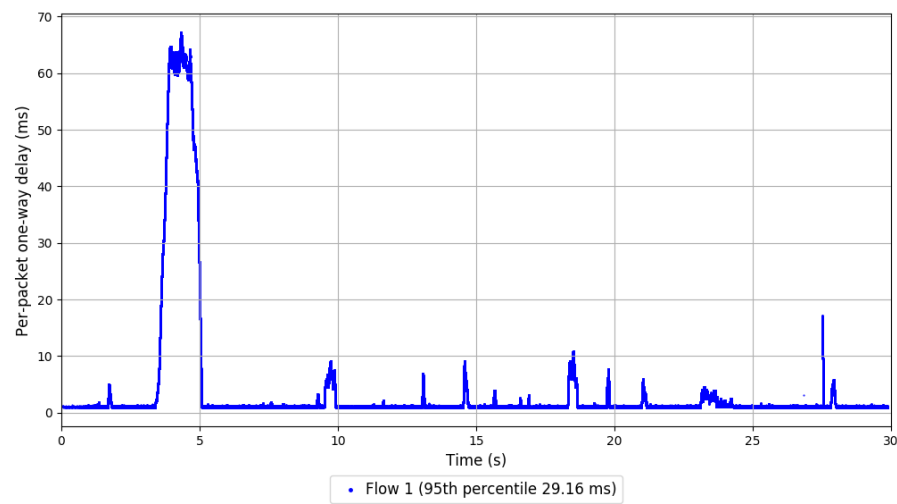
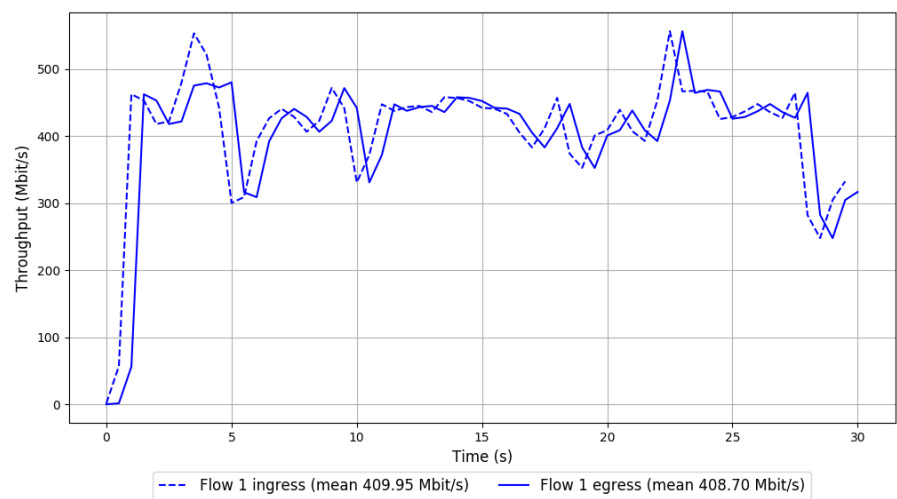
-- Flow 1:

Average throughput: 408.70 Mbit/s

95th percentile per-packet one-way delay: 29.164 ms

Loss rate: 0.37%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 04:17:36

End at: 2018-05-25 04:18:06

Local clock offset: 0.428 ms

Remote clock offset: 0.104 ms

Below is generated by plot.py at 2018-05-25 07:26:06

Datalink statistics

-- Total of 1 flow:

Average throughput: 428.21 Mbit/s

95th percentile per-packet one-way delay: 68.421 ms

Loss rate: 5.10%

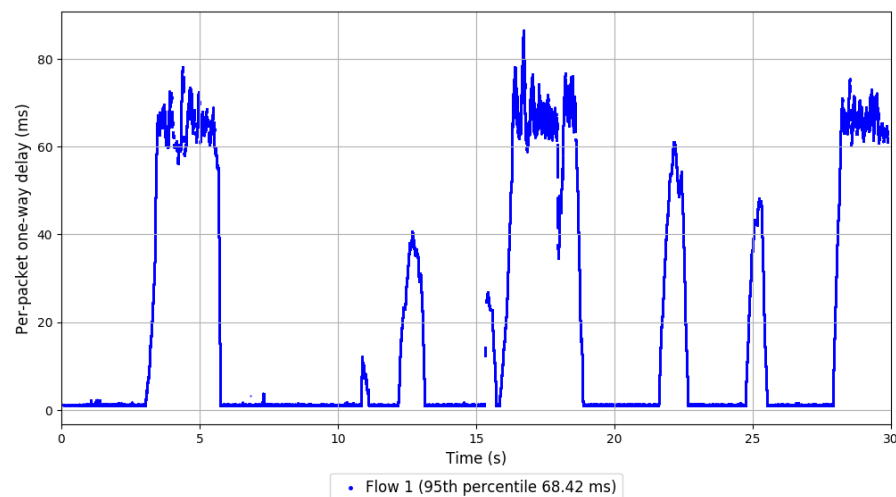
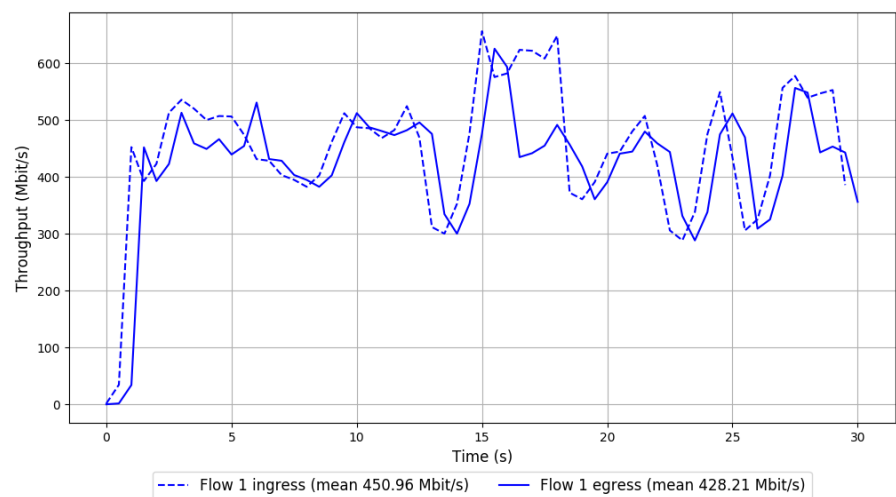
-- Flow 1:

Average throughput: 428.21 Mbit/s

95th percentile per-packet one-way delay: 68.421 ms

Loss rate: 5.10%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 04:41:52

End at: 2018-05-25 04:42:22

Local clock offset: 0.299 ms

Remote clock offset: -0.141 ms

Below is generated by plot.py at 2018-05-25 07:26:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 432.81 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.07%

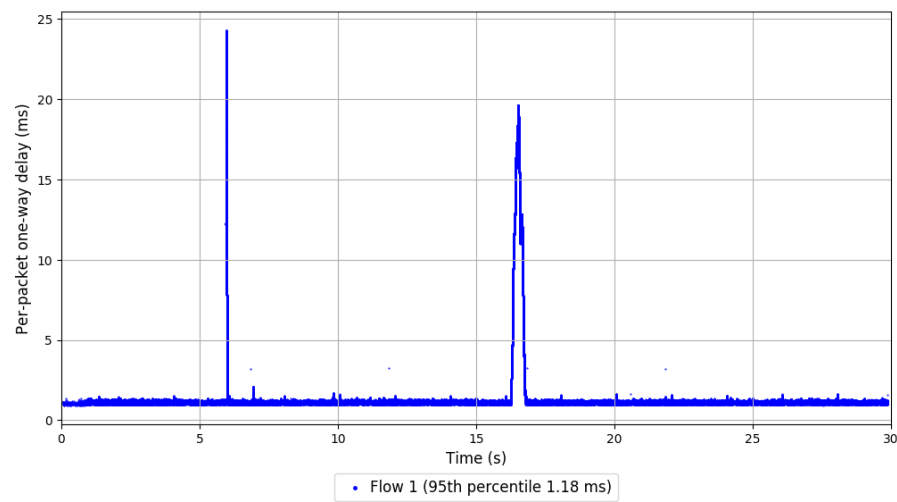
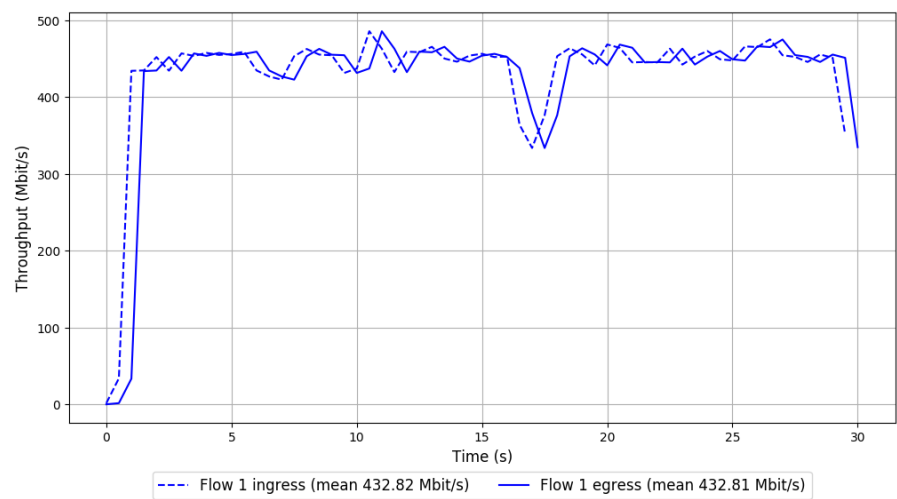
-- Flow 1:

Average throughput: 432.81 Mbit/s

95th percentile per-packet one-way delay: 1.178 ms

Loss rate: 0.07%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 05:06:26

End at: 2018-05-25 05:06:56

Local clock offset: 0.329 ms

Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 411.63 Mbit/s

95th percentile per-packet one-way delay: 64.098 ms

Loss rate: 0.95%

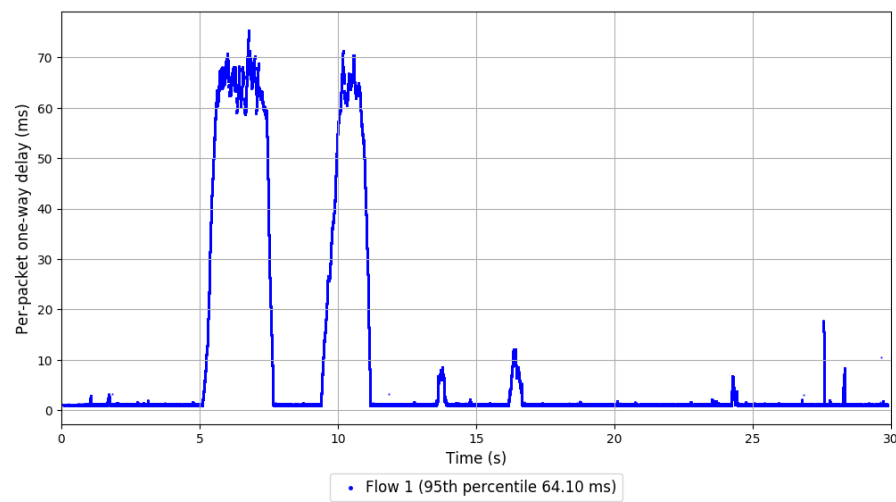
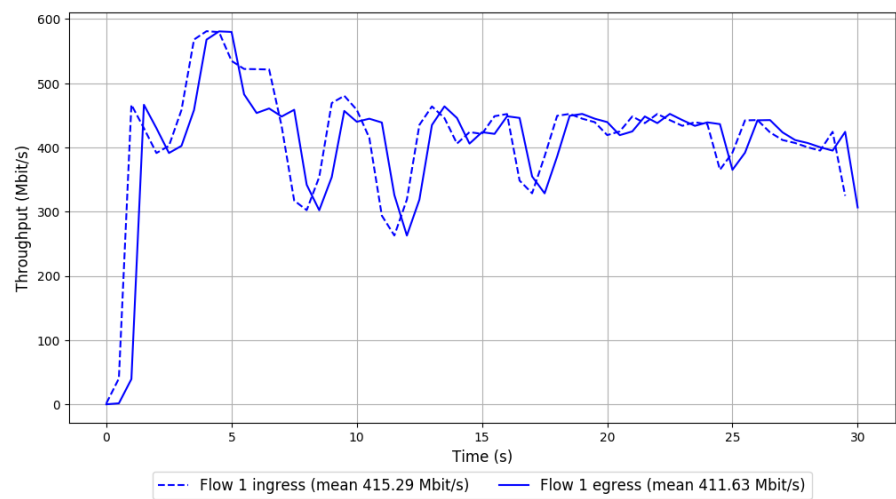
-- Flow 1:

Average throughput: 411.63 Mbit/s

95th percentile per-packet one-way delay: 64.098 ms

Loss rate: 0.95%

Run 10: Report of PCC-Vivace — Data Link

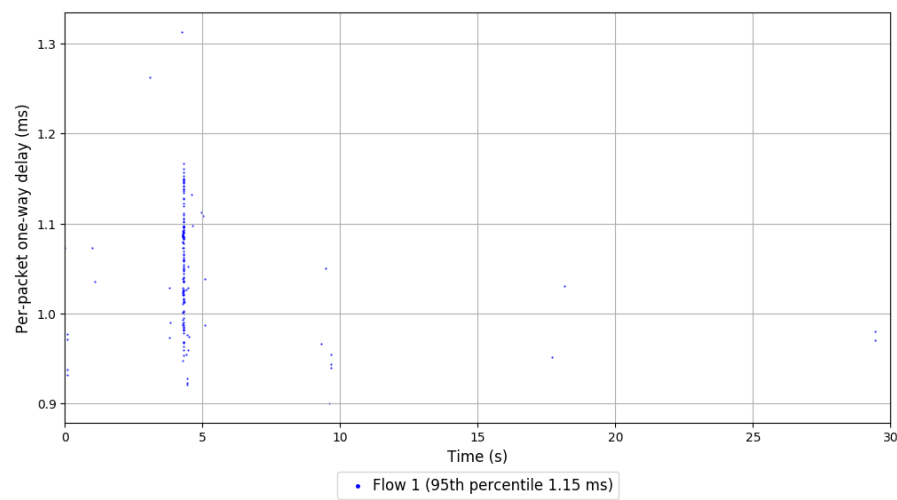
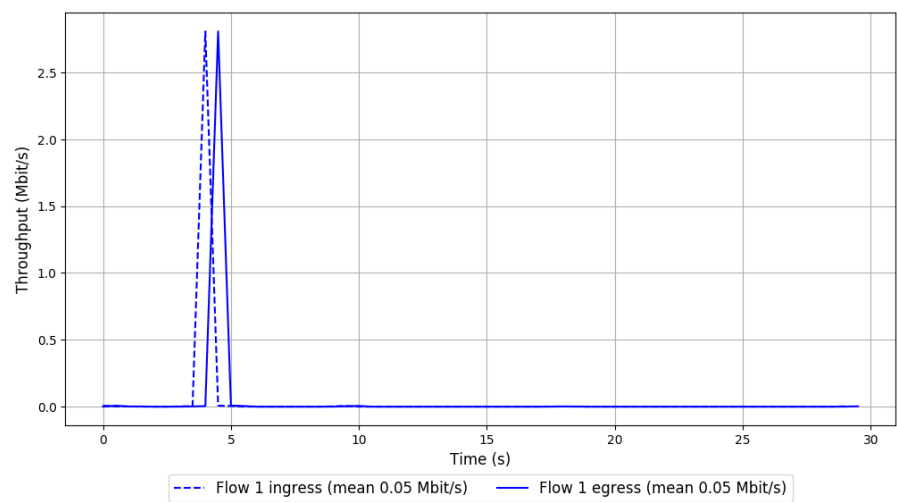


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 01:38:18
End at: 2018-05-25 01:38:48
Local clock offset: 1.491 ms
Remote clock offset: 0.501 ms

# Below is generated by plot.py at 2018-05-25 07:26:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.148 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 02:02:50

End at: 2018-05-25 02:03:20

Local clock offset: 1.33 ms

Remote clock offset: 1.054 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.357 ms

Loss rate: 0.00%

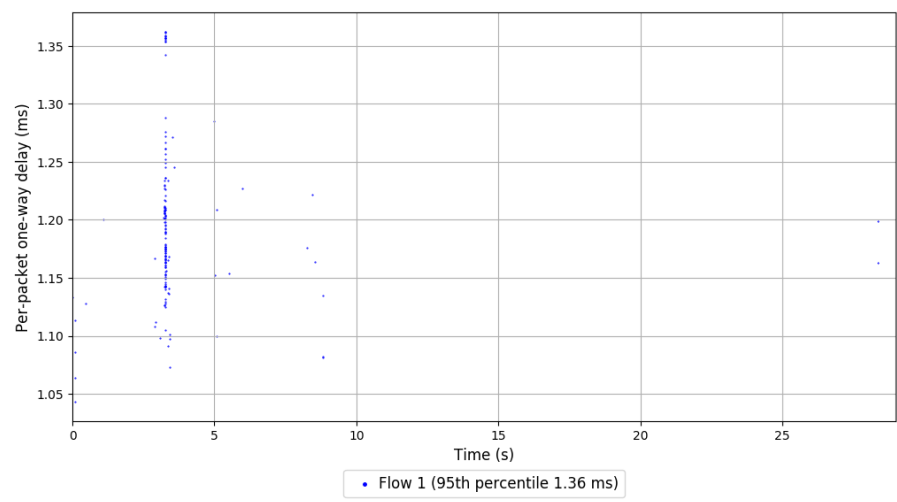
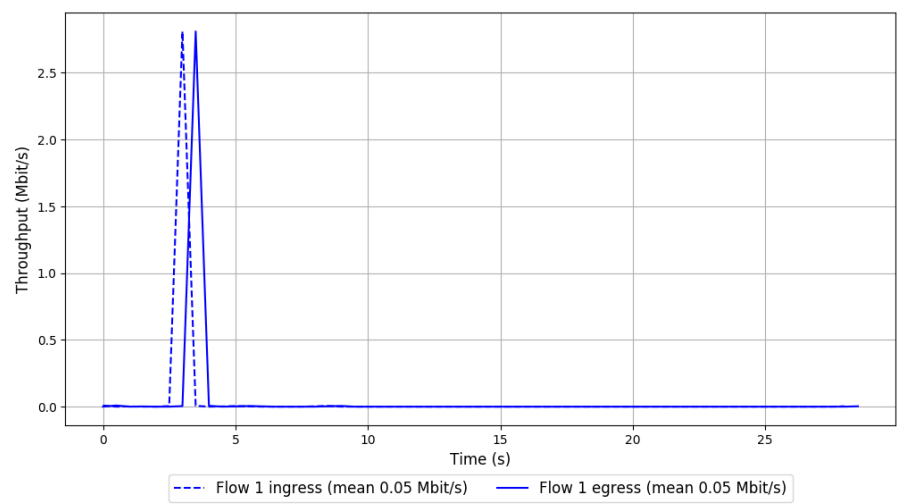
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.357 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 02:27:37

End at: 2018-05-25 02:28:07

Local clock offset: 0.392 ms

Remote clock offset: 1.643 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.00%

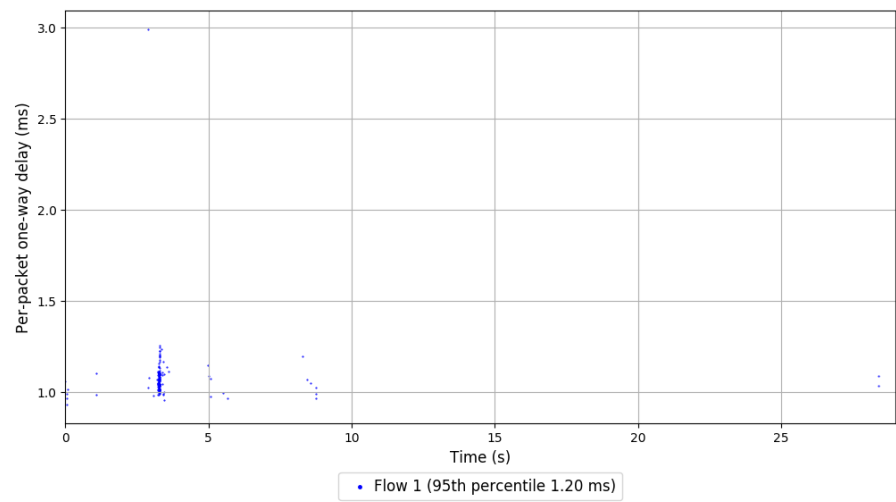
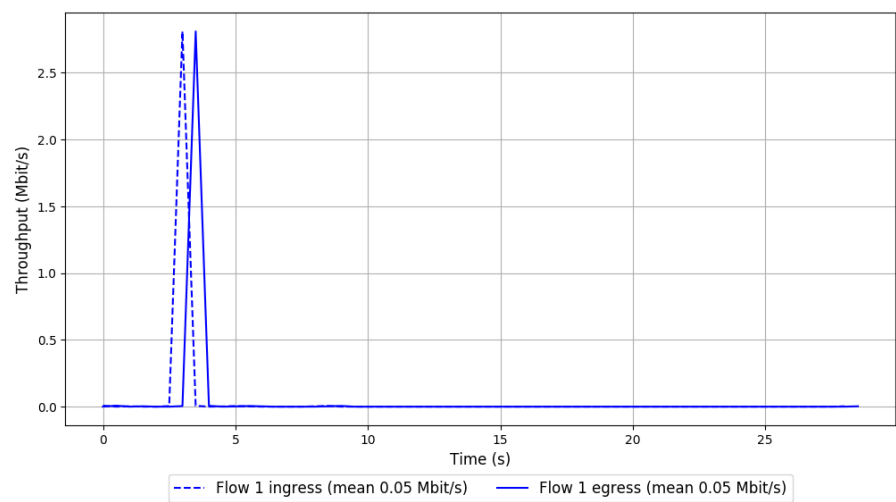
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.202 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 02:52:13

End at: 2018-05-25 02:52:43

Local clock offset: 0.014 ms

Remote clock offset: 0.04 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.00%

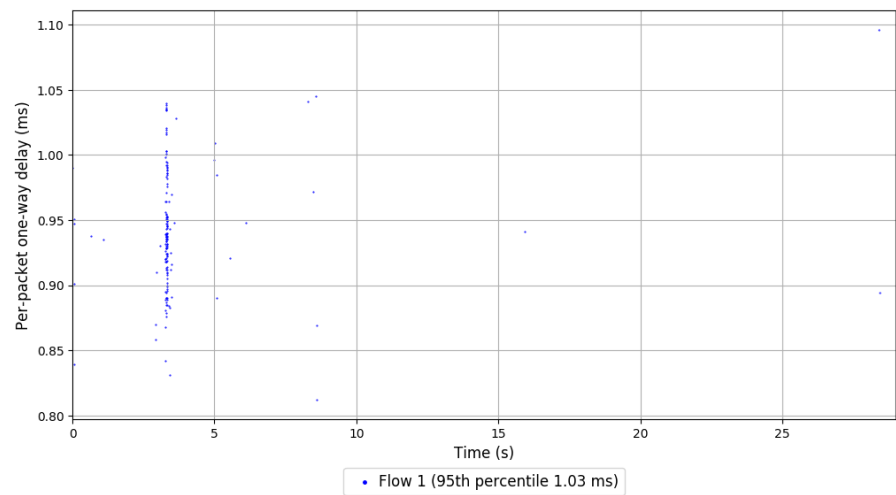
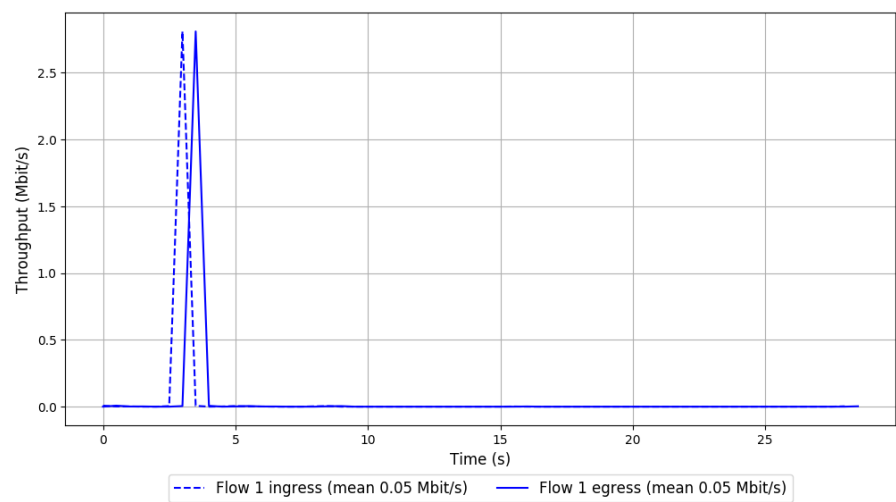
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.034 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

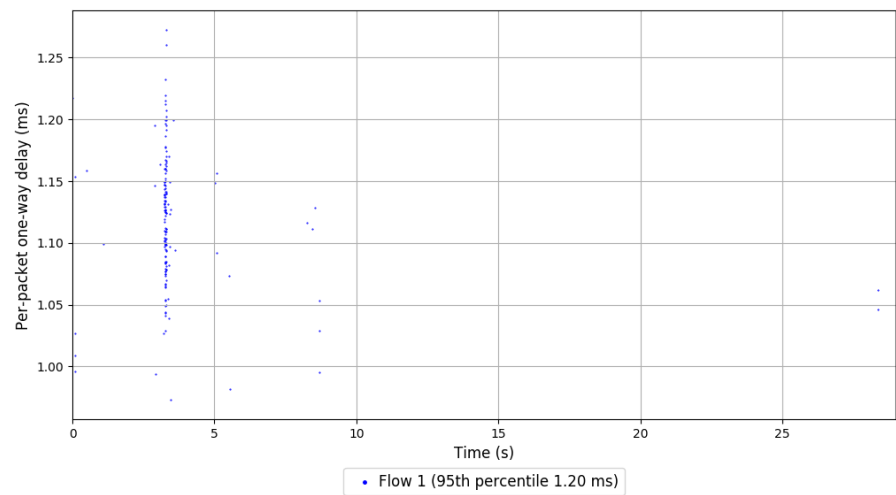
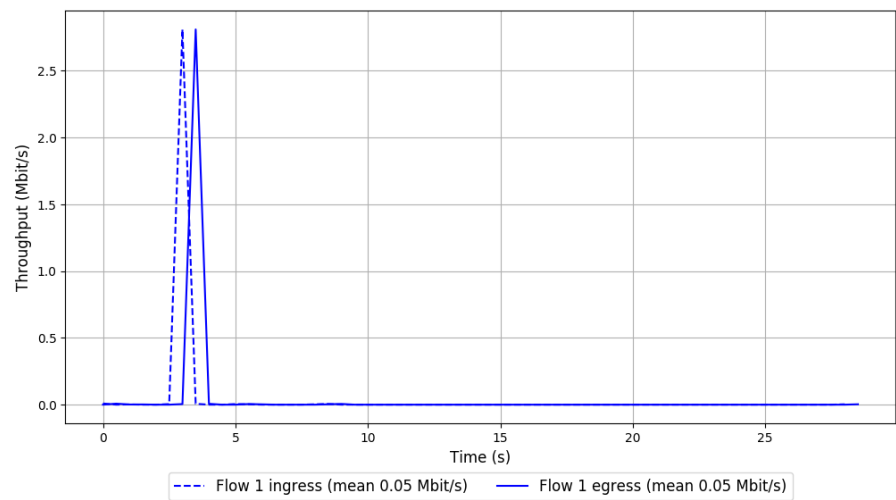


Run 5: Statistics of WebRTC media

Start at: 2018-05-25 03:16:31
End at: 2018-05-25 03:17:01
Local clock offset: 0.316 ms
Remote clock offset: -0.143 ms

Below is generated by plot.py at 2018-05-25 07:26:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.202 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-25 03:40:58

End at: 2018-05-25 03:41:28

Local clock offset: 0.331 ms

Remote clock offset: 0.079 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

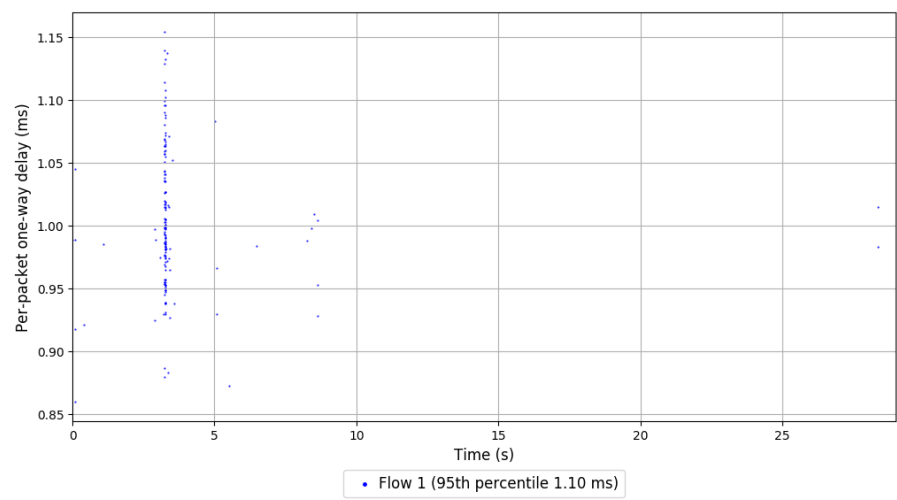
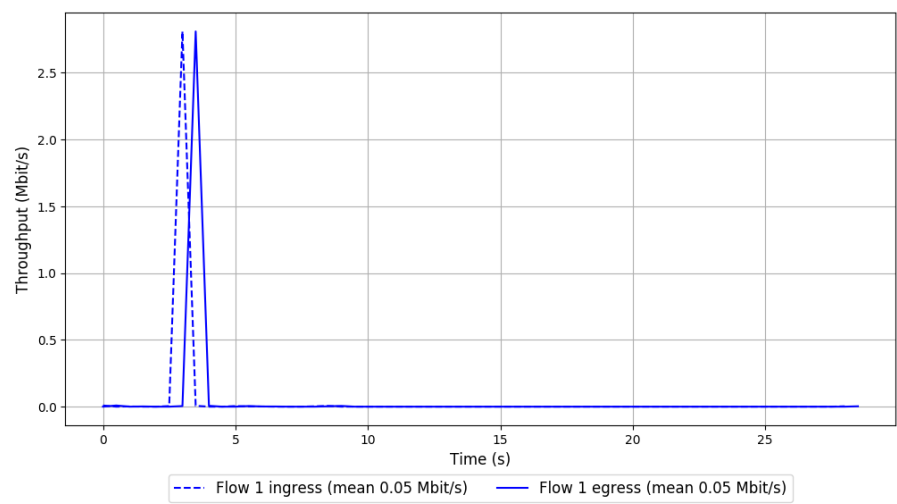
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.099 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 04:05:24

End at: 2018-05-25 04:05:54

Local clock offset: 0.37 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.00%

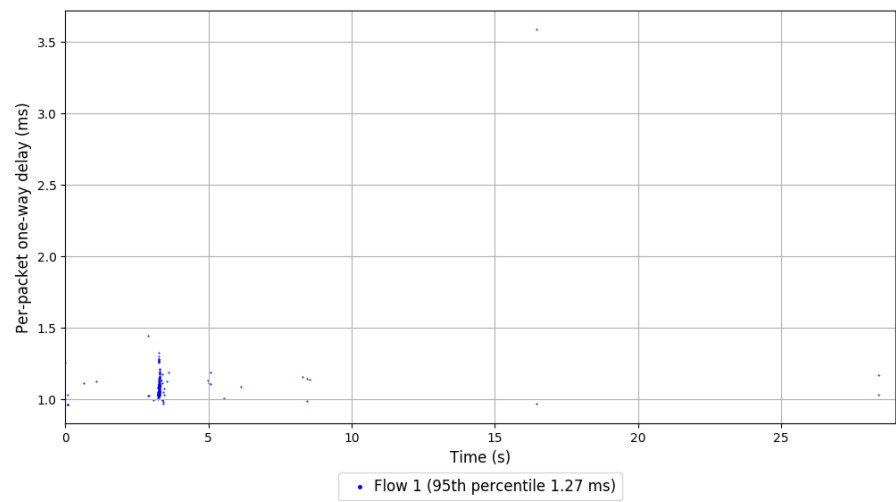
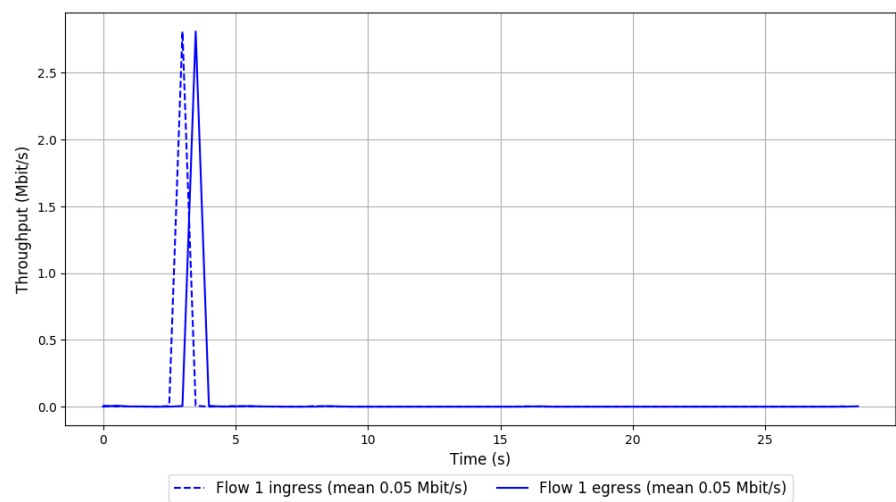
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.271 ms

Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

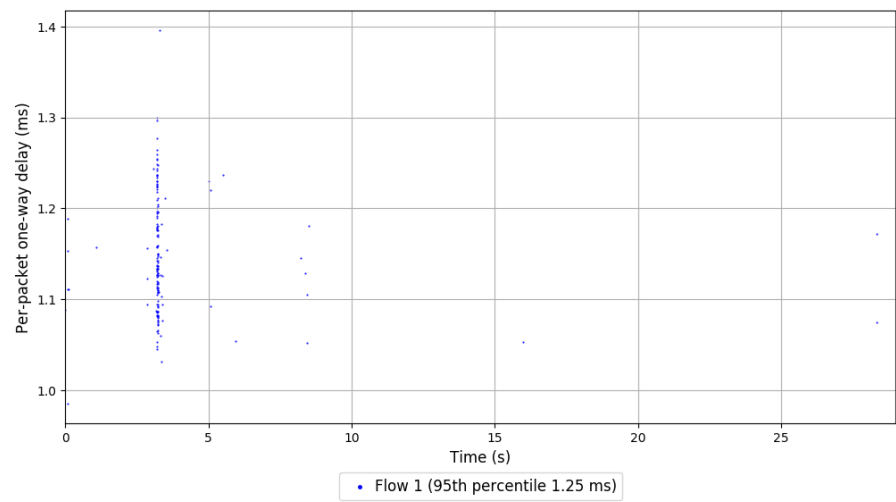
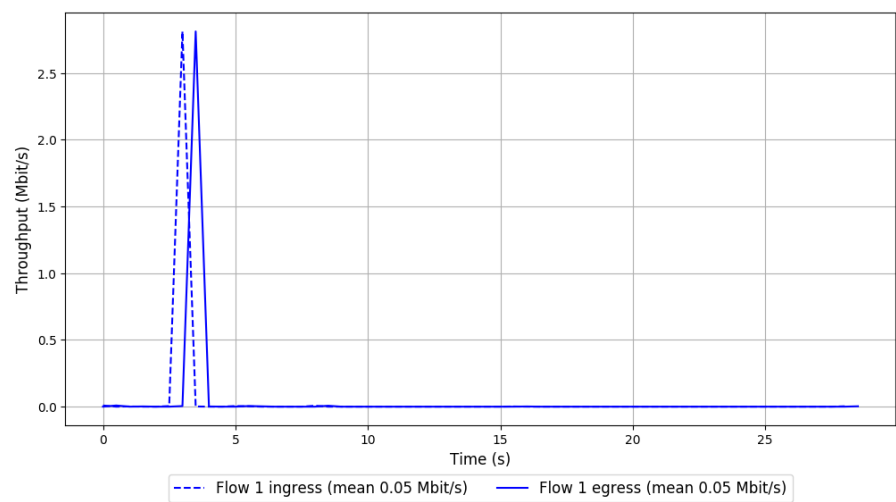


Run 8: Statistics of WebRTC media

Start at: 2018-05-25 04:30:07
End at: 2018-05-25 04:30:37
Local clock offset: 0.409 ms
Remote clock offset: -0.087 ms

Below is generated by plot.py at 2018-05-25 07:26:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.249 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.249 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

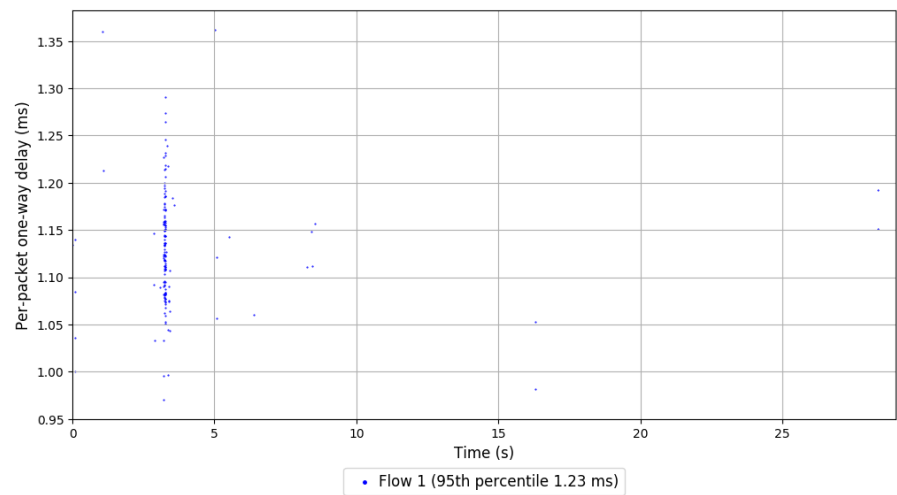
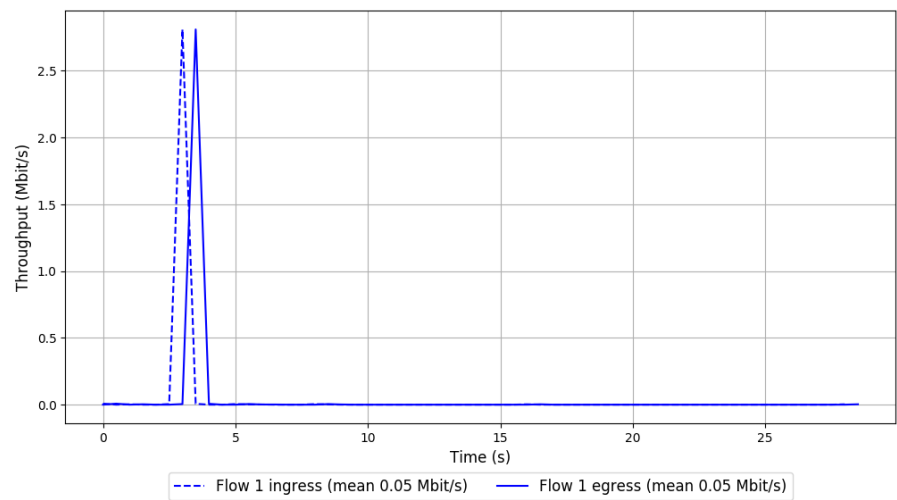


Run 9: Statistics of WebRTC media

Start at: 2018-05-25 04:54:16
End at: 2018-05-25 04:54:46
Local clock offset: 0.298 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-05-25 07:26:19
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.229 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 05:18:44

End at: 2018-05-25 05:19:14

Local clock offset: 0.375 ms

Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-05-25 07:26:19

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.263 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

