

Pantheon Report

Generated at 2018-05-22 15:29:17 (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.

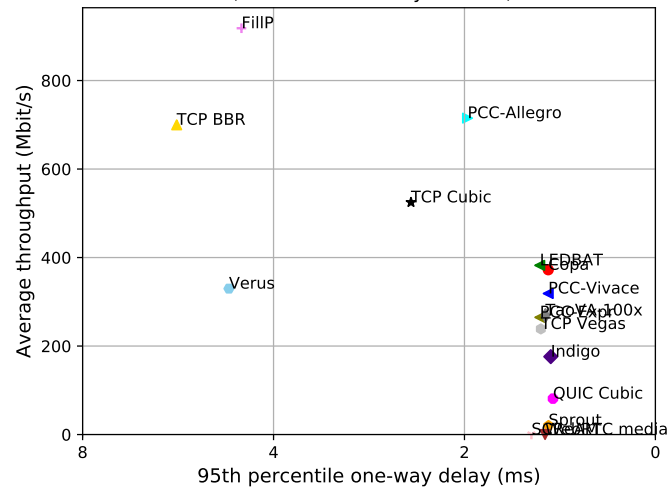
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

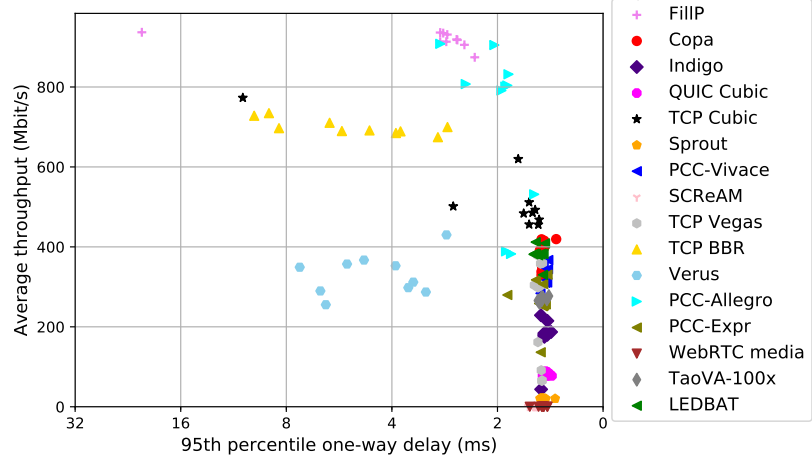
Git summary:

```
branch: master @ 2d1d4407e851ba626e5ca4626a306105793df686
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 Ethernet to AWS California 1 Ethernet, 10 runs of 30s each per scheme
(mean of all runs by scheme)



test from Stanford Ethernet to AWS California 1 Ethernet, 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	699.95	5.69	0.08
Copa	10	372.33	1.12	0.07
TCP Cubic	10	524.68	2.43	0.06
FillP	10	918.20	4.49	0.12
Indigo	10	176.04	1.10	0.06
LEDBAT	10	382.30	1.21	0.07
PCC-Allegro	10	715.06	1.97	0.10
PCC-Expr	10	264.80	1.21	0.08
QUIC Cubic	10	81.21	1.07	0.06
SCReAM	10	0.22	1.30	0.06
Sprout	10	20.61	1.12	0.04
TaoVA-100x	10	269.05	1.15	0.06
TCP Vegas	10	238.67	1.20	0.06
Verus	10	329.76	4.70	0.05
PCC-Vivace	10	318.73	1.12	0.08
WebRTC media	10	0.05	1.16	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-22 10:05:26

End at: 2018-05-22 10:05:56

Local clock offset: 0.261 ms

Remote clock offset: 3.39 ms

Below is generated by plot.py at 2018-05-22 14:04:05

Datalink statistics

-- Total of 1 flow:

Average throughput: 699.76 Mbit/s

95th percentile per-packet one-way delay: 2.777 ms

Loss rate: 0.08%

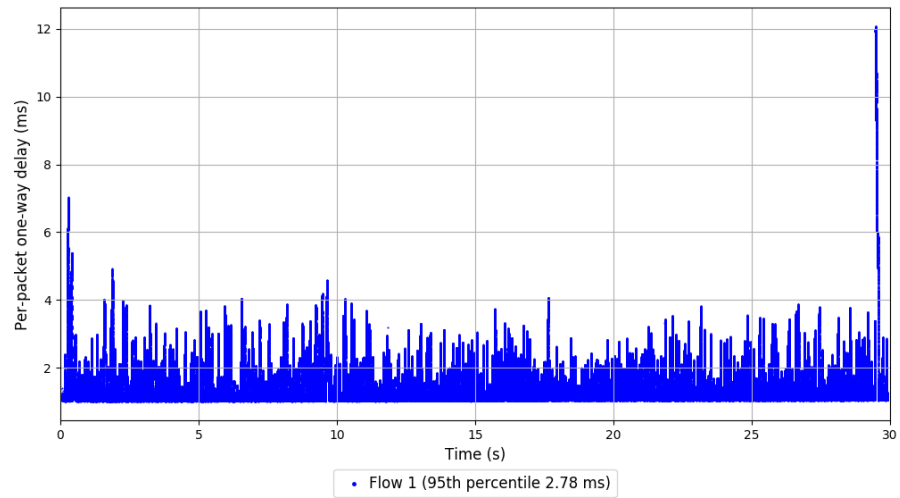
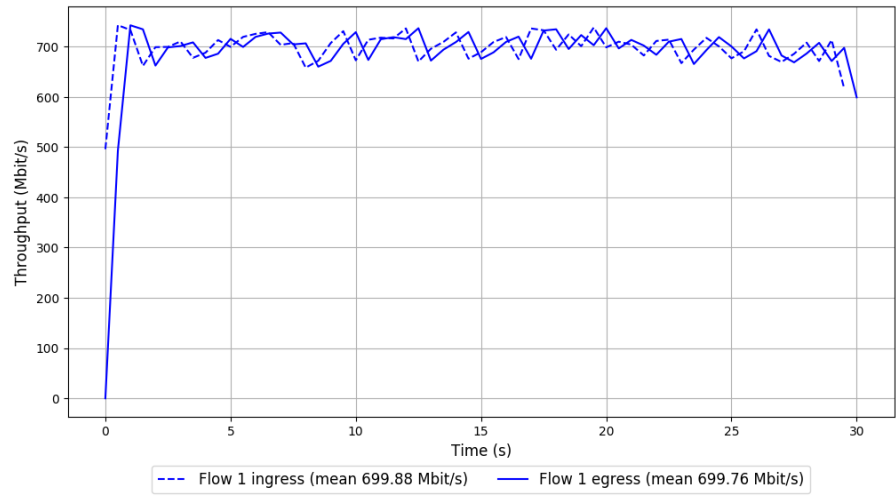
-- Flow 1:

Average throughput: 699.76 Mbit/s

95th percentile per-packet one-way delay: 2.777 ms

Loss rate: 0.08%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-22 10:29:33

End at: 2018-05-22 10:30:03

Local clock offset: 0.194 ms

Remote clock offset: 0.424 ms

Below is generated by plot.py at 2018-05-22 14:04:12

Datalink statistics

-- Total of 1 flow:

Average throughput: 710.50 Mbit/s

95th percentile per-packet one-way delay: 6.021 ms

Loss rate: 0.09%

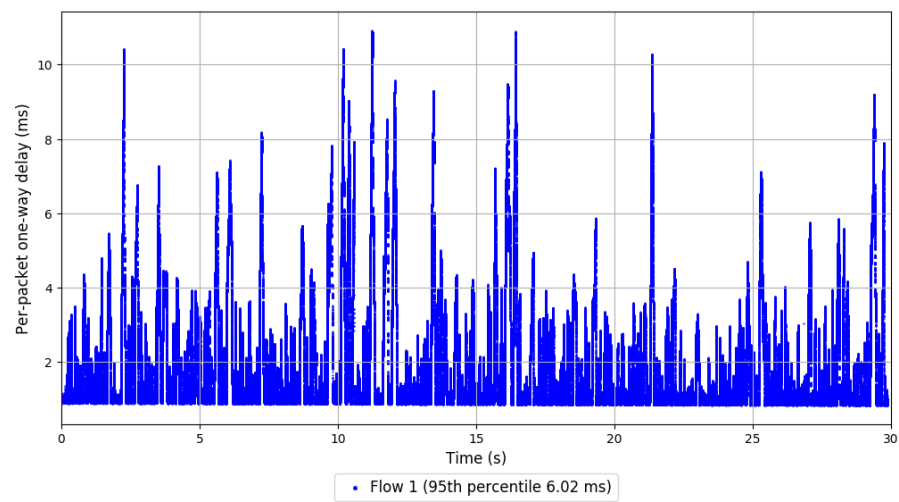
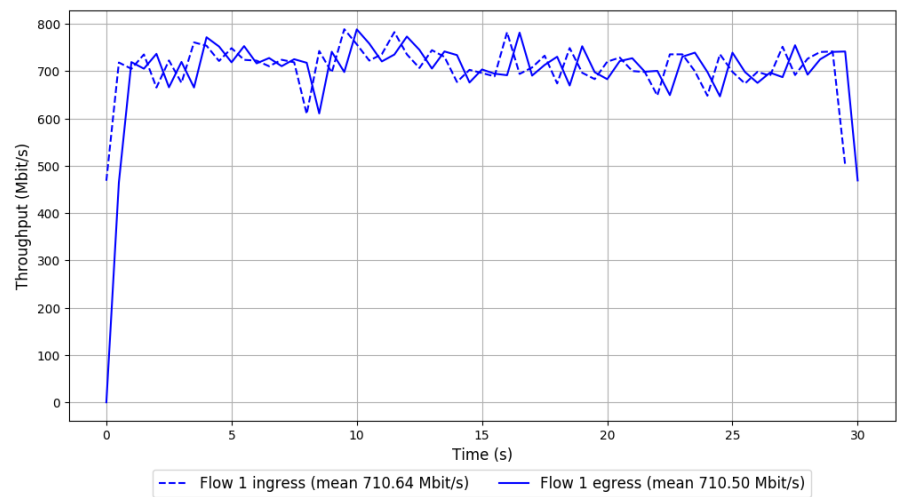
-- Flow 1:

Average throughput: 710.50 Mbit/s

95th percentile per-packet one-way delay: 6.021 ms

Loss rate: 0.09%

Run 2: Report of TCP BBR — Data Link

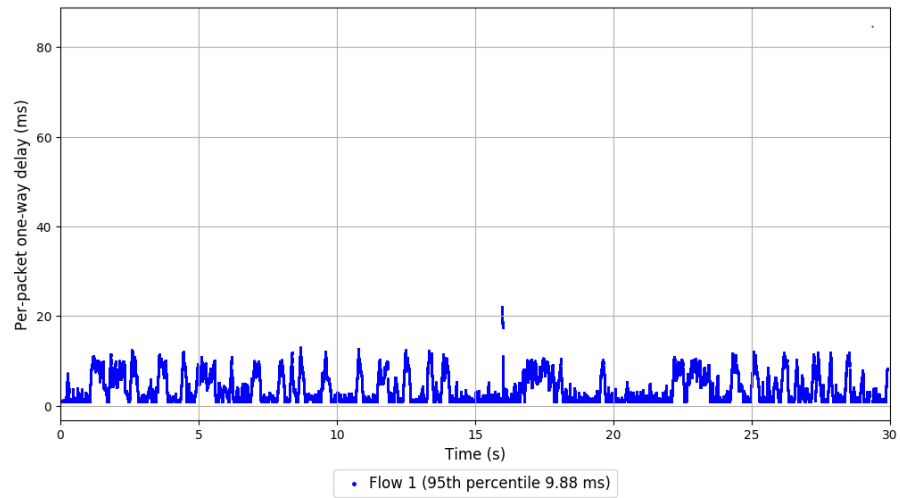
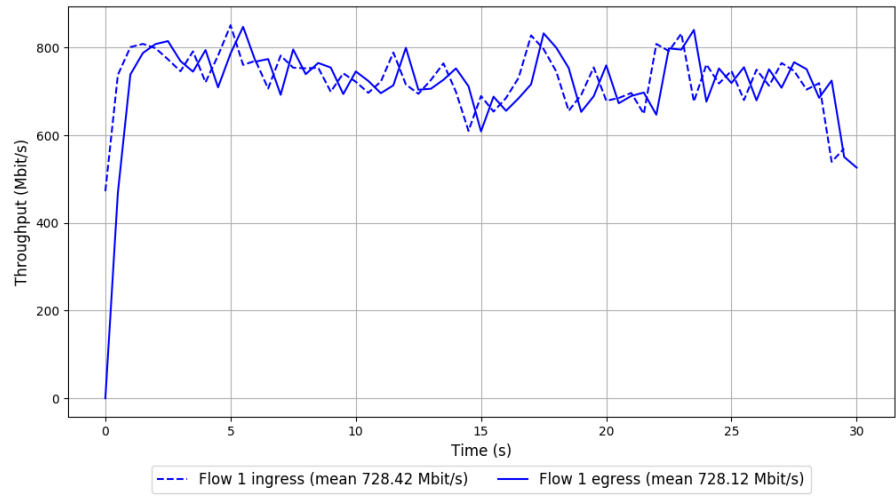


Run 3: Statistics of TCP BBR

Start at: 2018-05-22 10:53:29
End at: 2018-05-22 10:53:59
Local clock offset: 0.362 ms
Remote clock offset: -0.372 ms

Below is generated by plot.py at 2018-05-22 14:04:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 728.12 Mbit/s
95th percentile per-packet one-way delay: 9.877 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 728.12 Mbit/s
95th percentile per-packet one-way delay: 9.877 ms
Loss rate: 0.10%

Run 3: Report of TCP BBR — Data Link



Run 4: Statistics of TCP BBR

Start at: 2018-05-22 11:17:34

End at: 2018-05-22 11:18:04

Local clock offset: 0.081 ms

Remote clock offset: -0.338 ms

Below is generated by plot.py at 2018-05-22 14:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 674.48 Mbit/s

95th percentile per-packet one-way delay: 2.957 ms

Loss rate: 0.01%

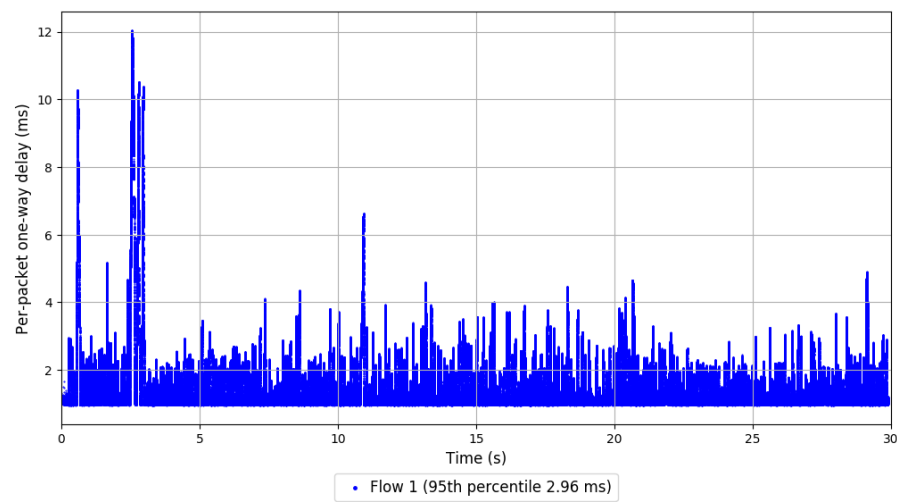
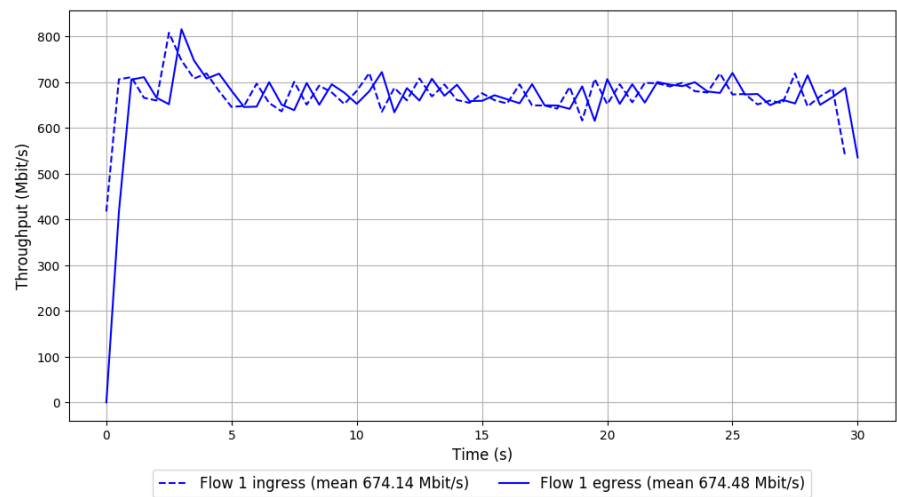
-- Flow 1:

Average throughput: 674.48 Mbit/s

95th percentile per-packet one-way delay: 2.957 ms

Loss rate: 0.01%

Run 4: Report of TCP BBR — Data Link

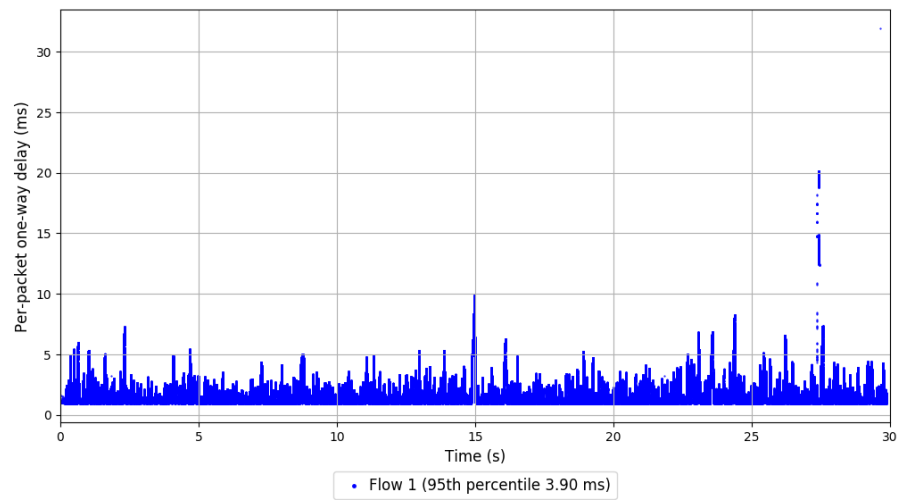
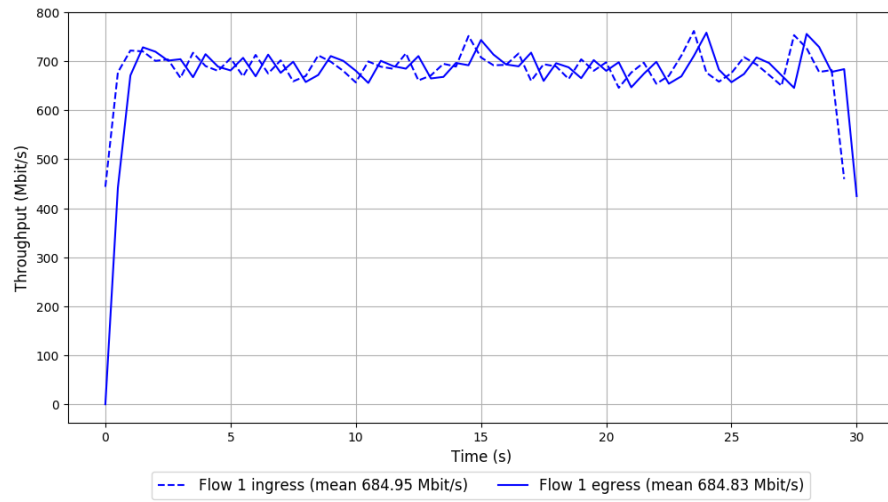


Run 5: Statistics of TCP BBR

Start at: 2018-05-22 11:41:12
End at: 2018-05-22 11:41:42
Local clock offset: 0.273 ms
Remote clock offset: -0.244 ms

Below is generated by plot.py at 2018-05-22 14:04:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 684.83 Mbit/s
95th percentile per-packet one-way delay: 3.896 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 684.83 Mbit/s
95th percentile per-packet one-way delay: 3.896 ms
Loss rate: 0.08%

Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-22 12:05:10

End at: 2018-05-22 12:05:40

Local clock offset: 0.24 ms

Remote clock offset: -0.153 ms

Below is generated by plot.py at 2018-05-22 14:04:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 691.40 Mbit/s

95th percentile per-packet one-way delay: 4.633 ms

Loss rate: 0.09%

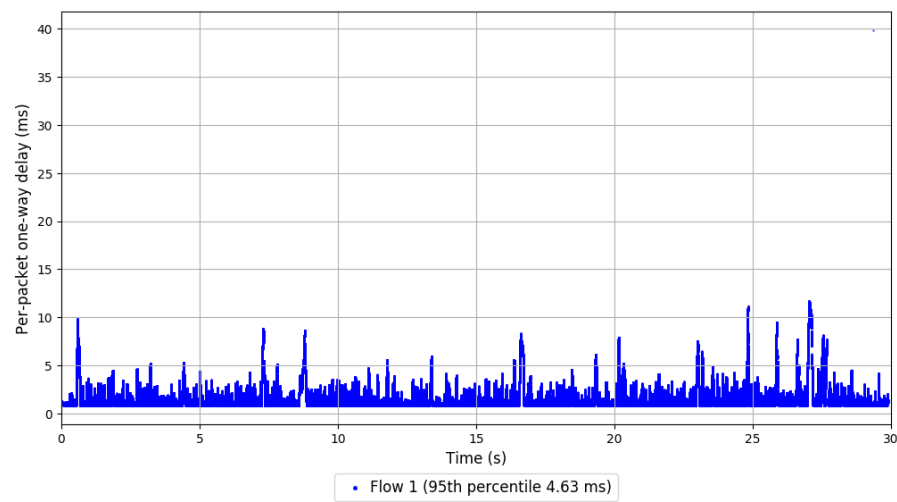
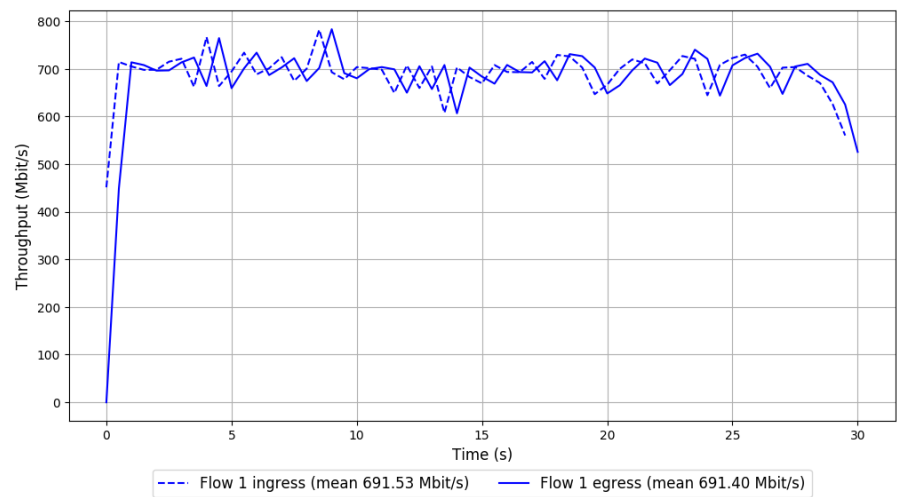
-- Flow 1:

Average throughput: 691.40 Mbit/s

95th percentile per-packet one-way delay: 4.633 ms

Loss rate: 0.09%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-22 12:28:57

End at: 2018-05-22 12:29:27

Local clock offset: 0.245 ms

Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-05-22 14:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 734.60 Mbit/s

95th percentile per-packet one-way delay: 8.966 ms

Loss rate: 0.09%

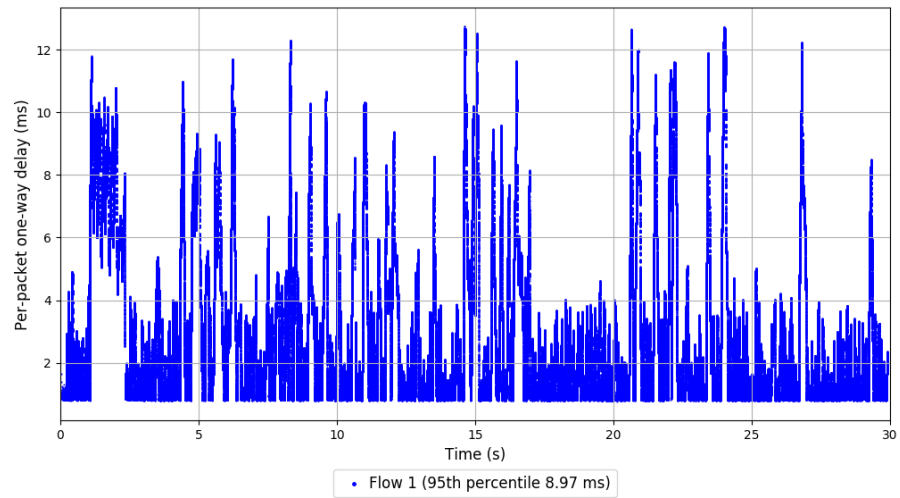
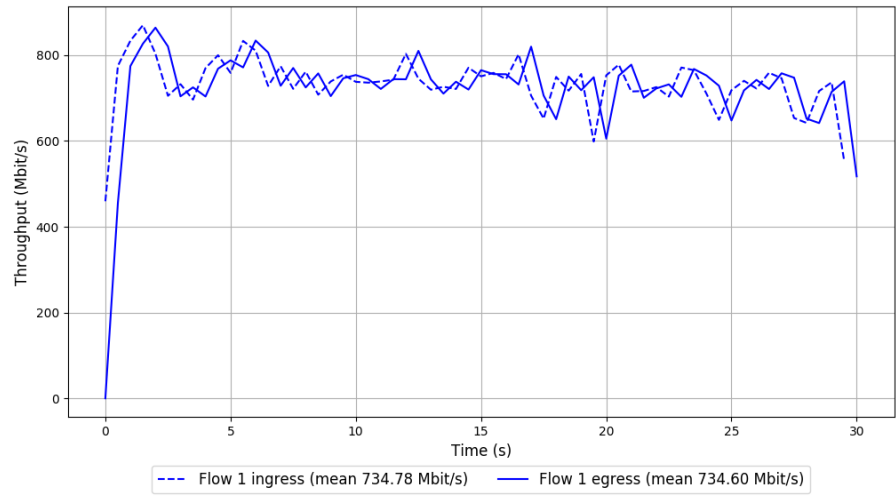
-- Flow 1:

Average throughput: 734.60 Mbit/s

95th percentile per-packet one-way delay: 8.966 ms

Loss rate: 0.09%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-22 12:52:53

End at: 2018-05-22 12:53:23

Local clock offset: 0.323 ms

Remote clock offset: -0.364 ms

Below is generated by plot.py at 2018-05-22 14:04:31

Datalink statistics

-- Total of 1 flow:

Average throughput: 689.75 Mbit/s

95th percentile per-packet one-way delay: 5.554 ms

Loss rate: 0.08%

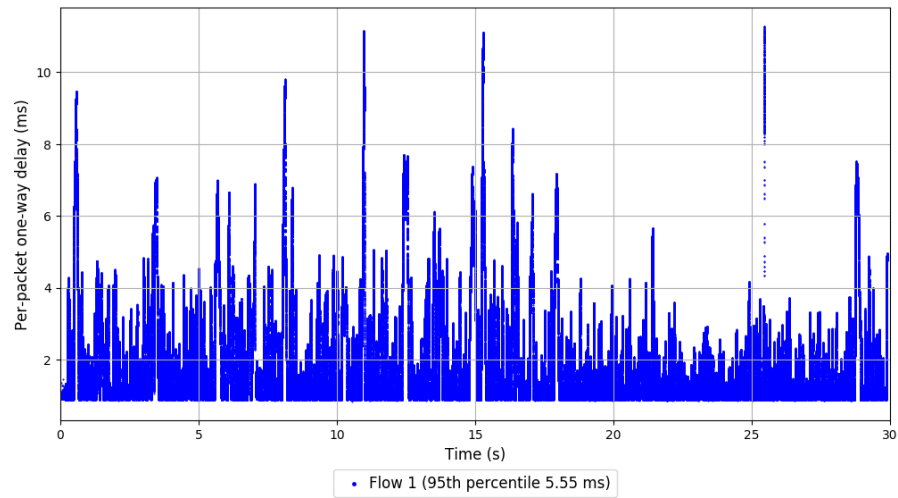
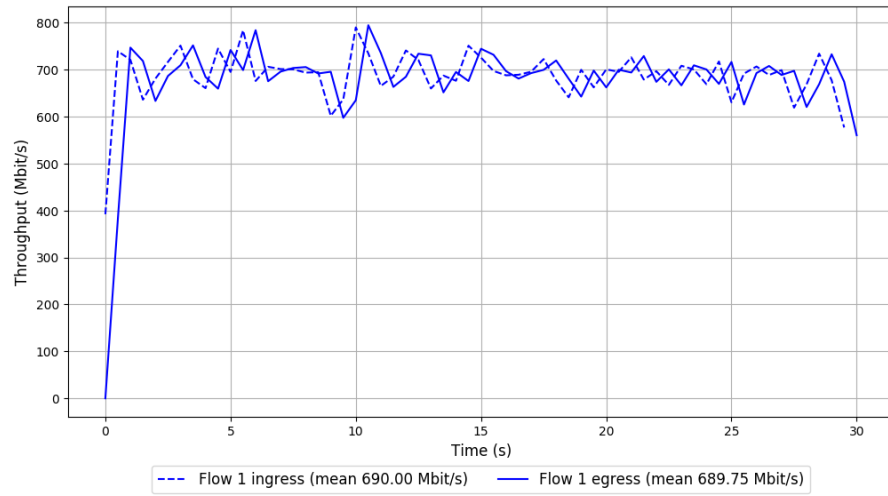
-- Flow 1:

Average throughput: 689.75 Mbit/s

95th percentile per-packet one-way delay: 5.554 ms

Loss rate: 0.08%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-22 13:16:32

End at: 2018-05-22 13:17:02

Local clock offset: 0.458 ms

Remote clock offset: -0.213 ms

Below is generated by plot.py at 2018-05-22 14:12:03

Datalink statistics

-- Total of 1 flow:

Average throughput: 689.04 Mbit/s

95th percentile per-packet one-way delay: 3.780 ms

Loss rate: 0.07%

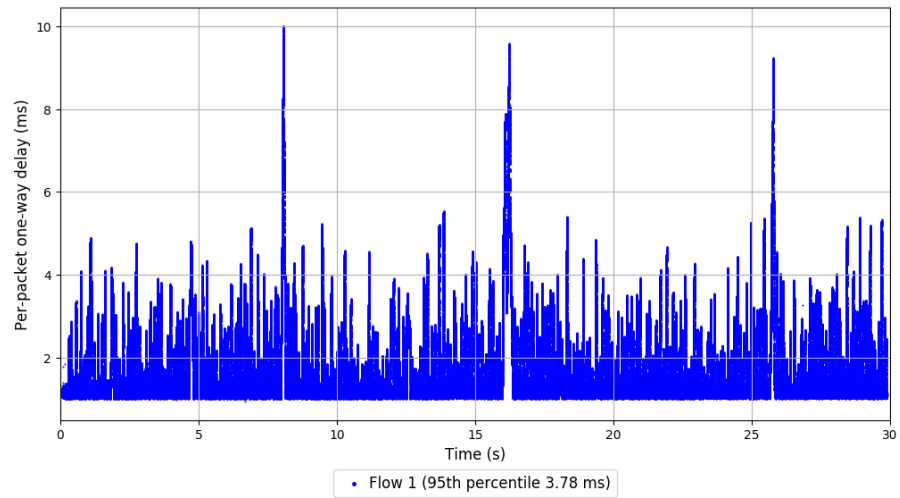
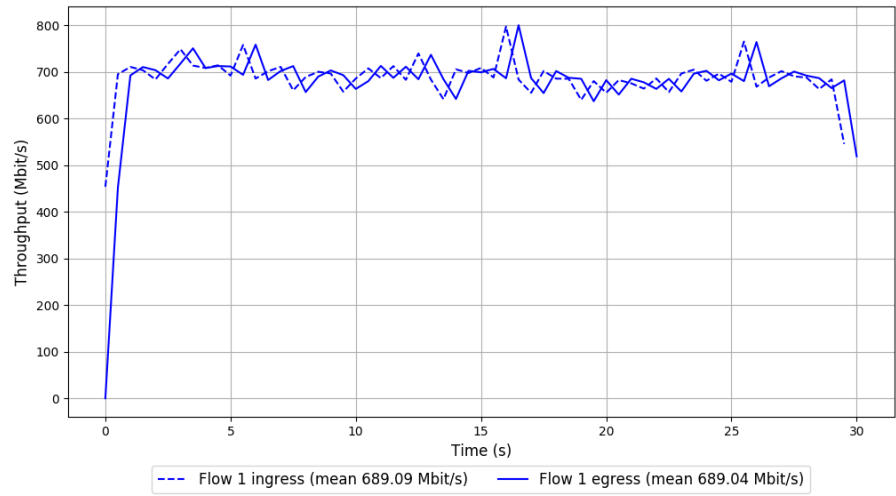
-- Flow 1:

Average throughput: 689.04 Mbit/s

95th percentile per-packet one-way delay: 3.780 ms

Loss rate: 0.07%

Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-22 13:40:29

End at: 2018-05-22 13:40:59

Local clock offset: 0.428 ms

Remote clock offset: -0.131 ms

Below is generated by plot.py at 2018-05-22 14:12:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 697.01 Mbit/s

95th percentile per-packet one-way delay: 8.394 ms

Loss rate: 0.07%

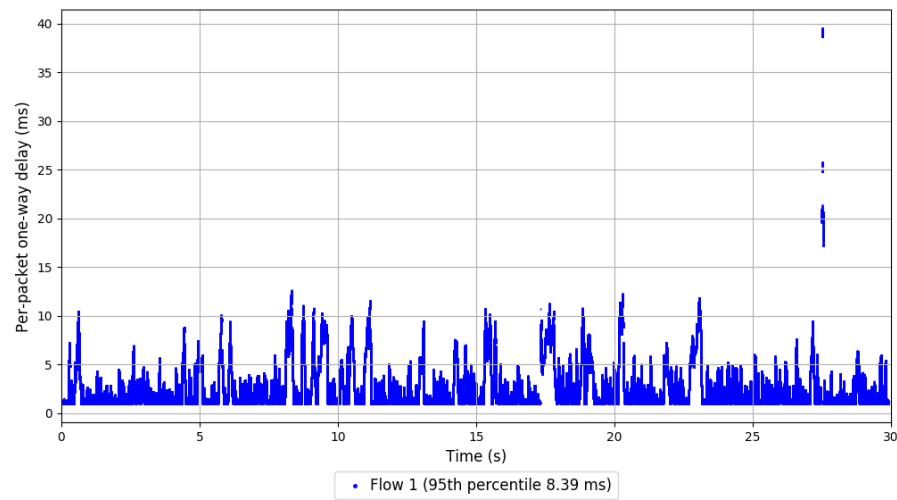
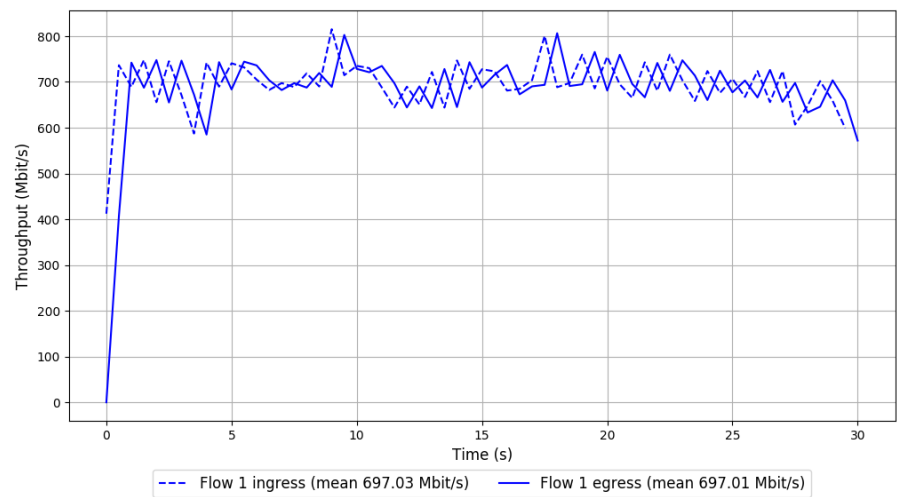
-- Flow 1:

Average throughput: 697.01 Mbit/s

95th percentile per-packet one-way delay: 8.394 ms

Loss rate: 0.07%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-22 09:56:22

End at: 2018-05-22 09:56:52

Local clock offset: 0.41 ms

Remote clock offset: 2.943 ms

Below is generated by plot.py at 2018-05-22 14:12:10

Datalink statistics

-- Total of 1 flow:

Average throughput: 349.66 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.07%

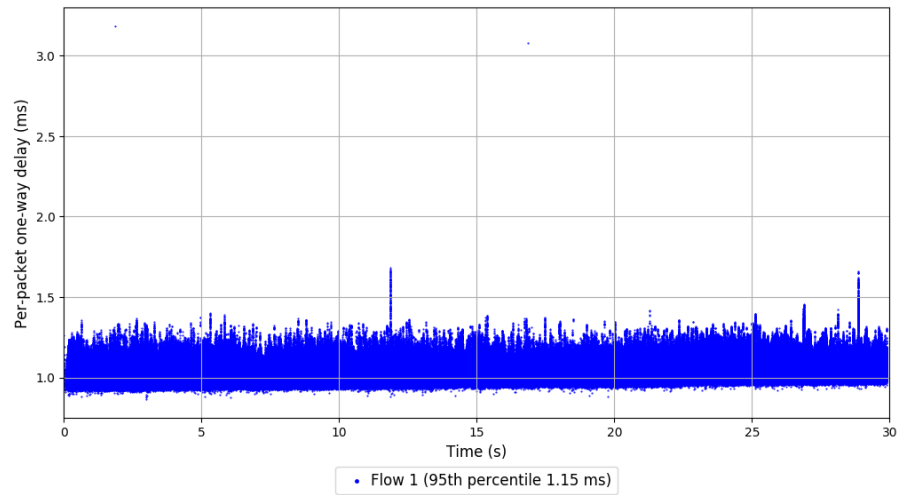
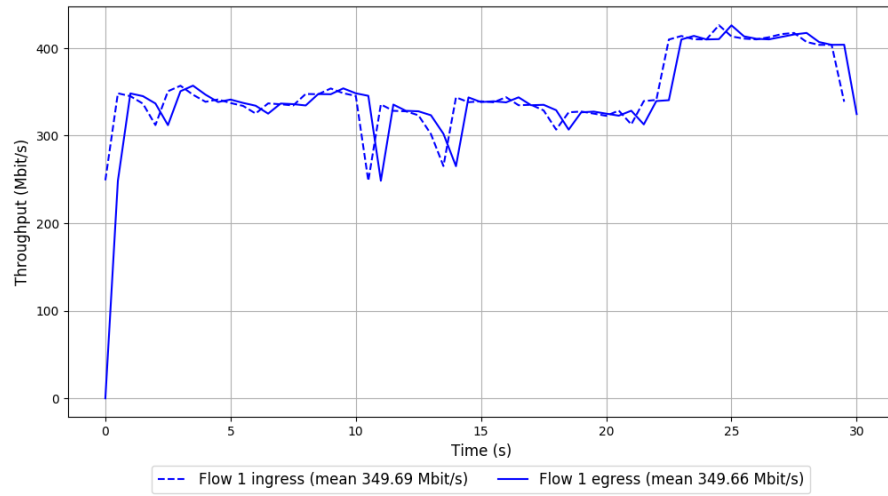
-- Flow 1:

Average throughput: 349.66 Mbit/s

95th percentile per-packet one-way delay: 1.154 ms

Loss rate: 0.07%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-22 10:20:25

End at: 2018-05-22 10:20:55

Local clock offset: 0.084 ms

Remote clock offset: 2.009 ms

Below is generated by plot.py at 2018-05-22 14:12:51

Datalink statistics

-- Total of 1 flow:

Average throughput: 419.40 Mbit/s

95th percentile per-packet one-way delay: 0.888 ms

Loss rate: 0.07%

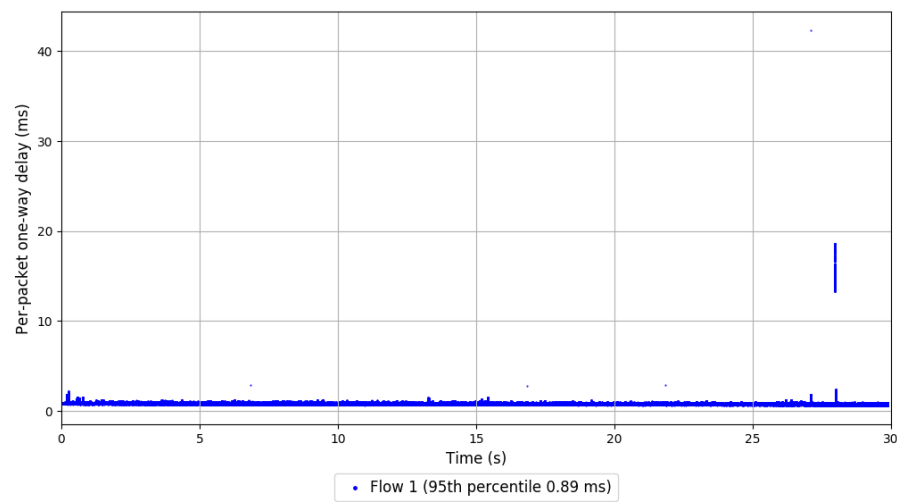
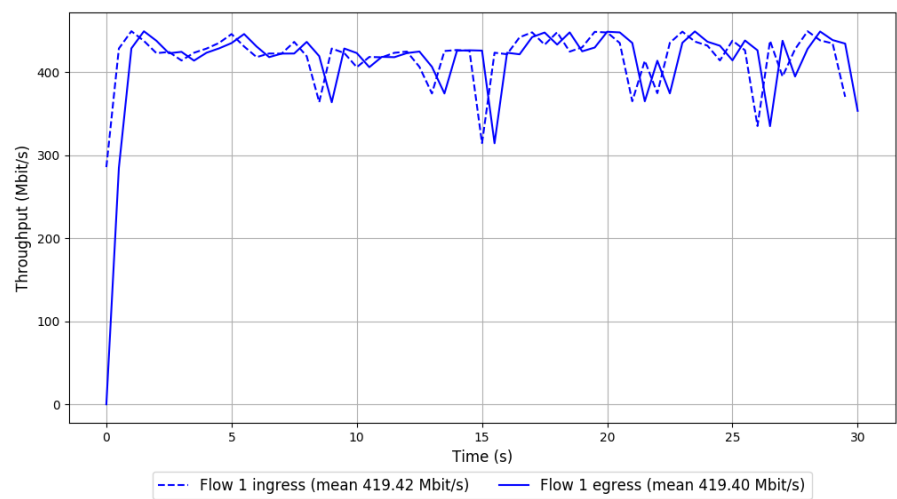
-- Flow 1:

Average throughput: 419.40 Mbit/s

95th percentile per-packet one-way delay: 0.888 ms

Loss rate: 0.07%

Run 2: Report of Copa — Data Link

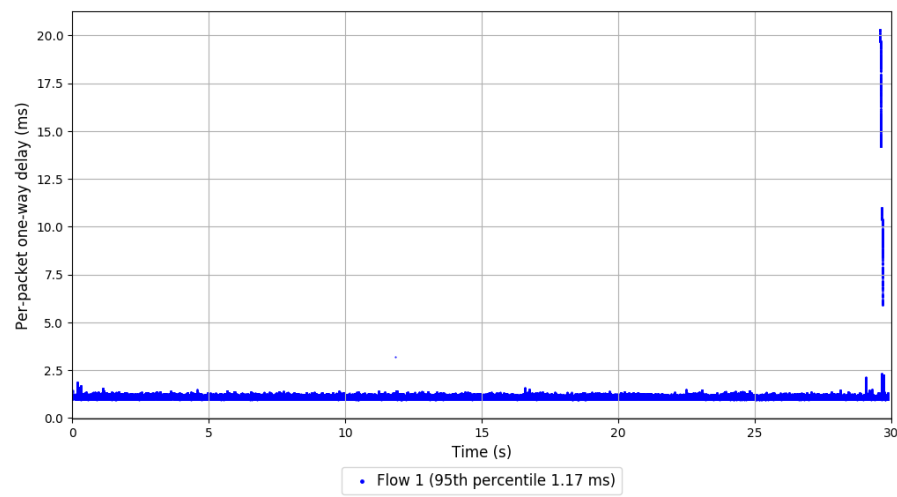
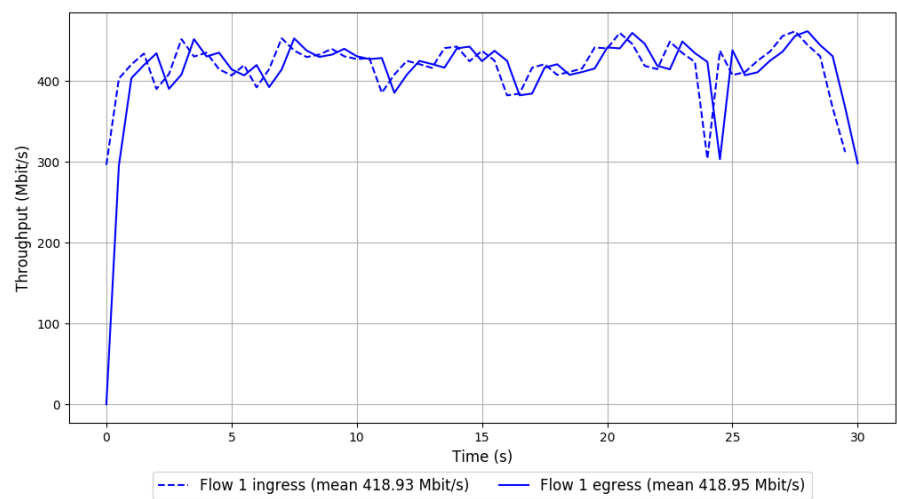


Run 3: Statistics of Copa

Start at: 2018-05-22 10:44:25
End at: 2018-05-22 10:44:55
Local clock offset: 0.332 ms
Remote clock offset: -0.491 ms

Below is generated by plot.py at 2018-05-22 14:12:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 418.95 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 418.95 Mbit/s
95th percentile per-packet one-way delay: 1.165 ms
Loss rate: 0.06%

Run 3: Report of Copa — Data Link

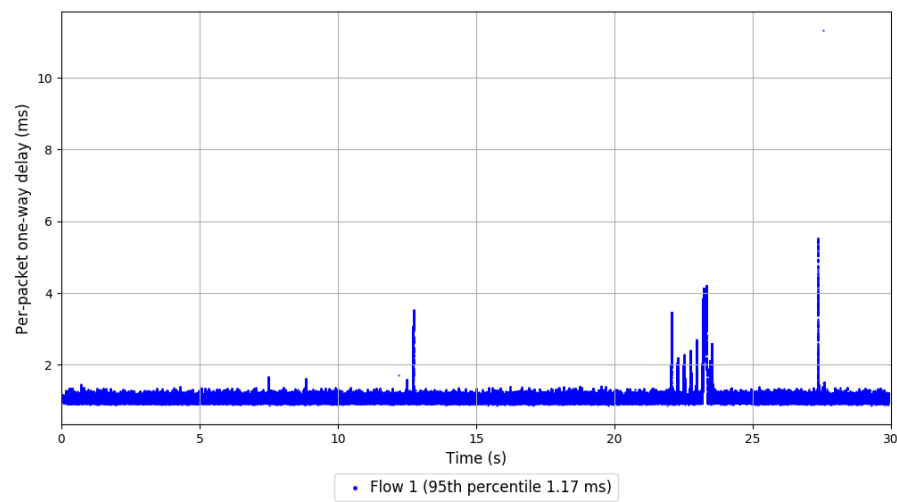
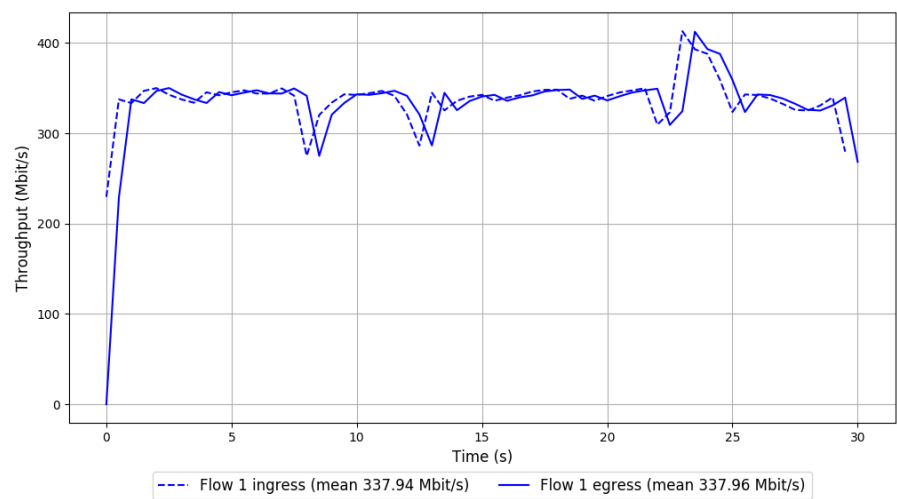


Run 4: Statistics of Copa

Start at: 2018-05-22 11:08:35
End at: 2018-05-22 11:09:05
Local clock offset: 0.161 ms
Remote clock offset: -0.242 ms

Below is generated by plot.py at 2018-05-22 14:12:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 337.96 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 337.96 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.06%

Run 4: Report of Copa — Data Link

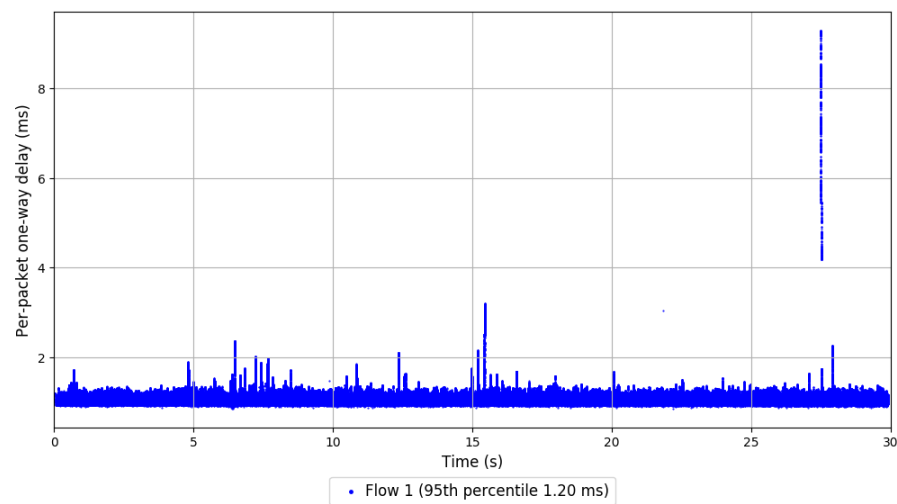
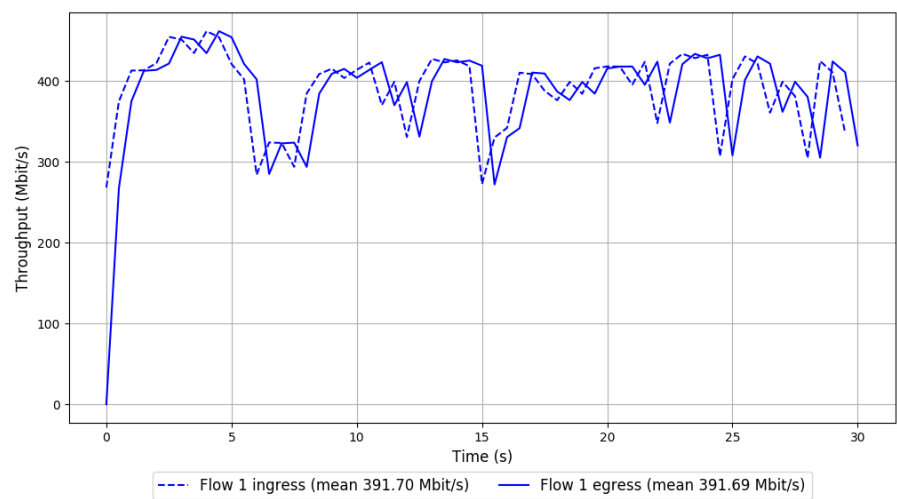


Run 5: Statistics of Copa

Start at: 2018-05-22 11:32:28
End at: 2018-05-22 11:32:58
Local clock offset: 0.179 ms
Remote clock offset: -0.225 ms

Below is generated by plot.py at 2018-05-22 14:12:59
Datalink statistics
-- Total of 1 flow:
Average throughput: 391.69 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 391.69 Mbit/s
95th percentile per-packet one-way delay: 1.196 ms
Loss rate: 0.07%

Run 5: Report of Copa — Data Link

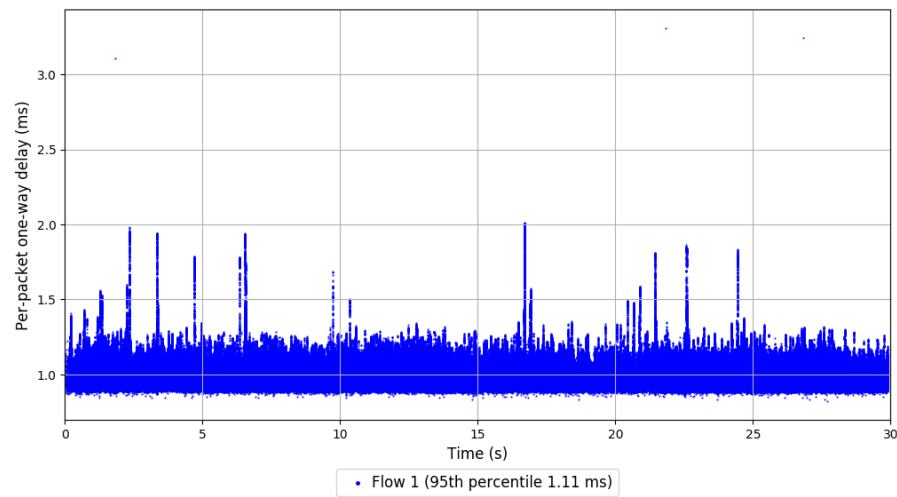
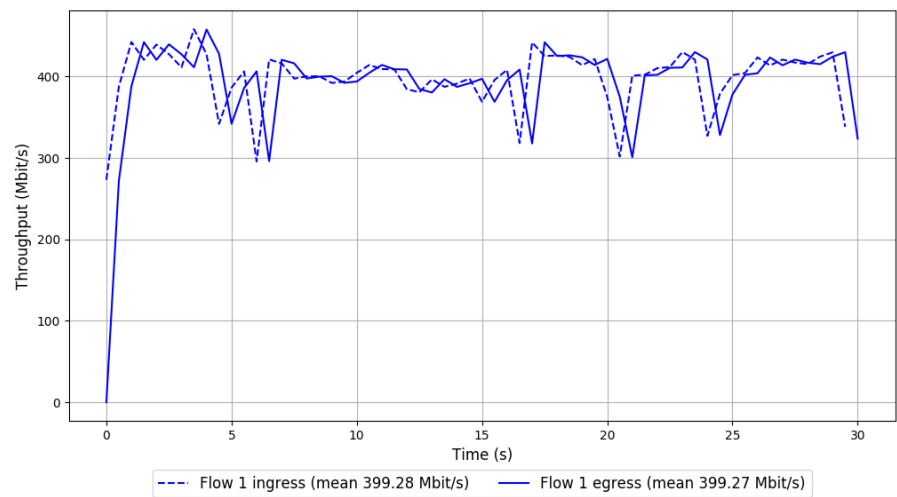


Run 6: Statistics of Copa

Start at: 2018-05-22 11:56:12
End at: 2018-05-22 11:56:42
Local clock offset: 0.324 ms
Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-05-22 14:13:08
Datalink statistics
-- Total of 1 flow:
Average throughput: 399.27 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 399.27 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.07%

Run 6: Report of Copa — Data Link

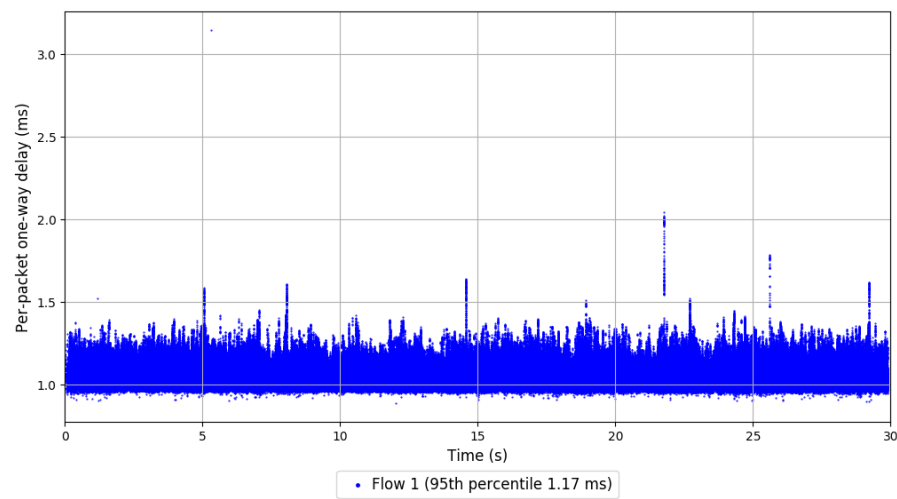
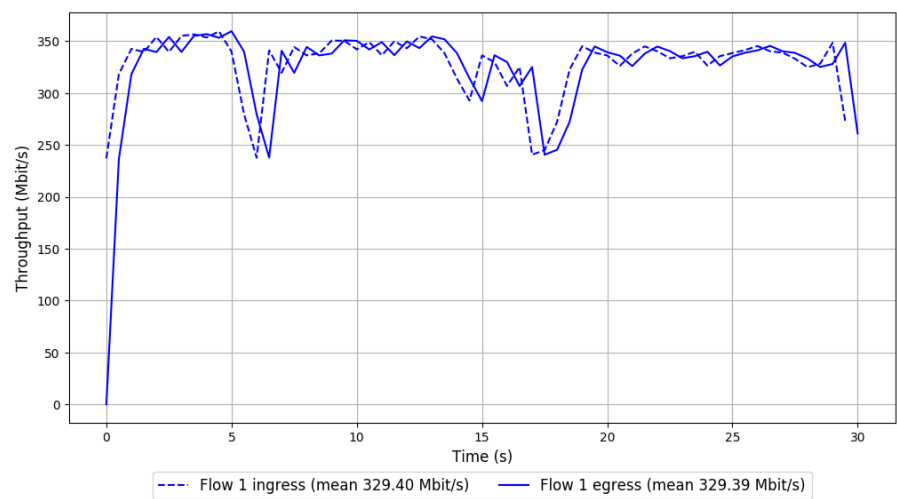


Run 7: Statistics of Copa

Start at: 2018-05-22 12:20:00
End at: 2018-05-22 12:20:30
Local clock offset: 0.363 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-05-22 14:18:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 329.39 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 329.39 Mbit/s
95th percentile per-packet one-way delay: 1.166 ms
Loss rate: 0.06%

Run 7: Report of Copa — Data Link

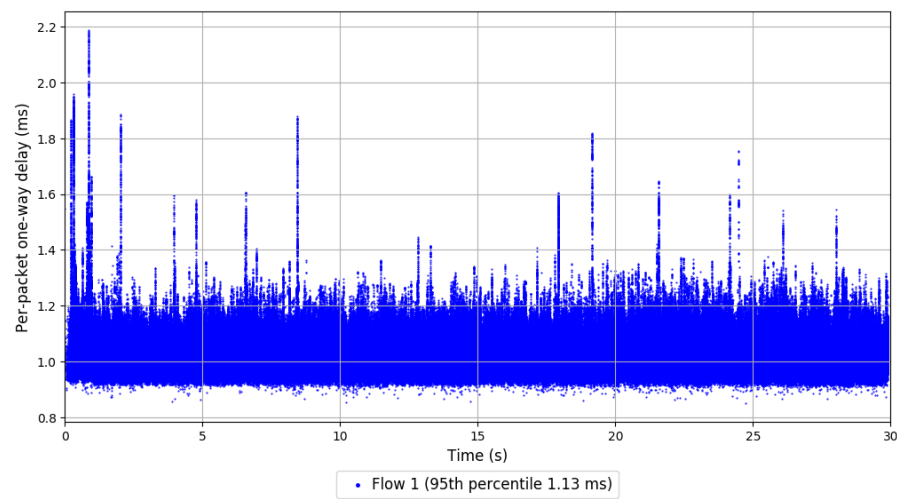
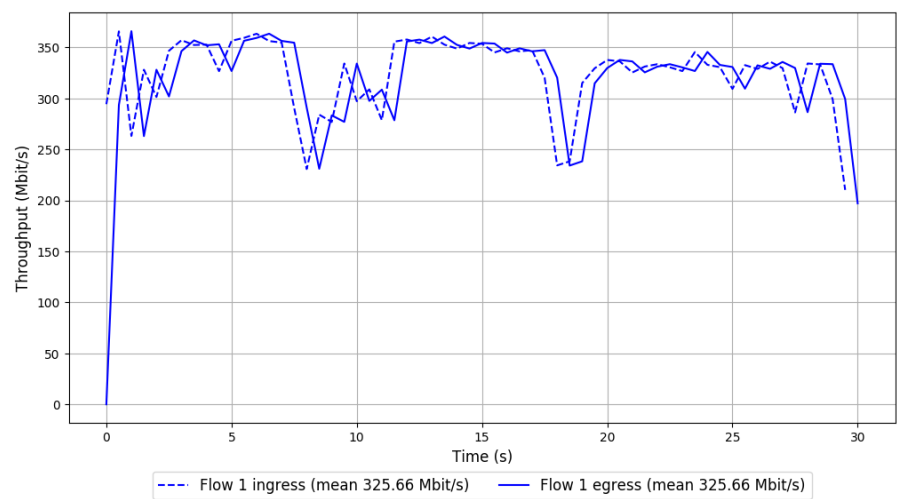


Run 8: Statistics of Copa

Start at: 2018-05-22 12:43:57
End at: 2018-05-22 12:44:27
Local clock offset: 0.406 ms
Remote clock offset: -0.267 ms

Below is generated by plot.py at 2018-05-22 14:18:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 325.66 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 325.66 Mbit/s
95th percentile per-packet one-way delay: 1.133 ms
Loss rate: 0.07%

Run 8: Report of Copa — Data Link

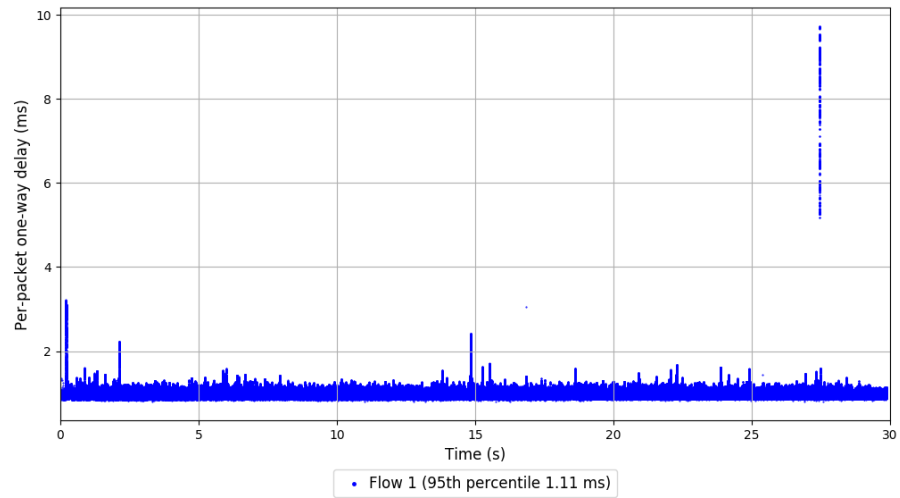
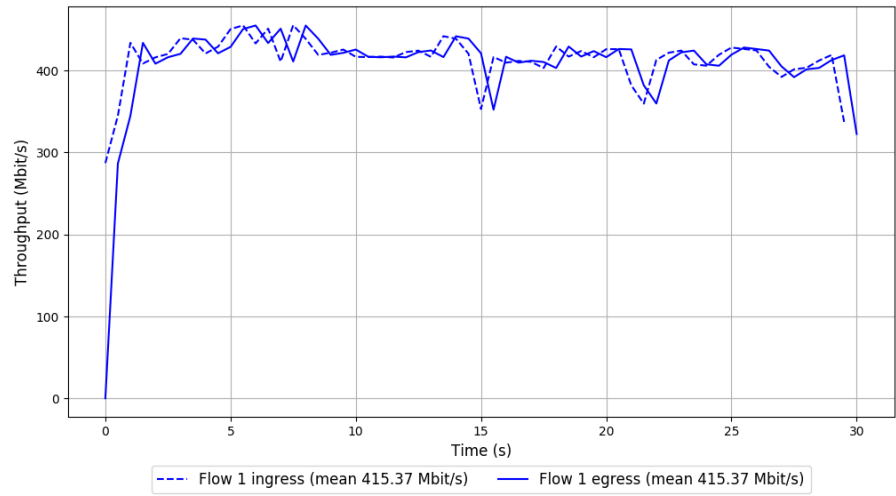


Run 9: Statistics of Copa

Start at: 2018-05-22 13:07:32
End at: 2018-05-22 13:08:02
Local clock offset: 0.365 ms
Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-05-22 14:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 415.37 Mbit/s
95th percentile per-packet one-way delay: 1.114 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 415.37 Mbit/s
95th percentile per-packet one-way delay: 1.114 ms
Loss rate: 0.06%

Run 9: Report of Copa — Data Link

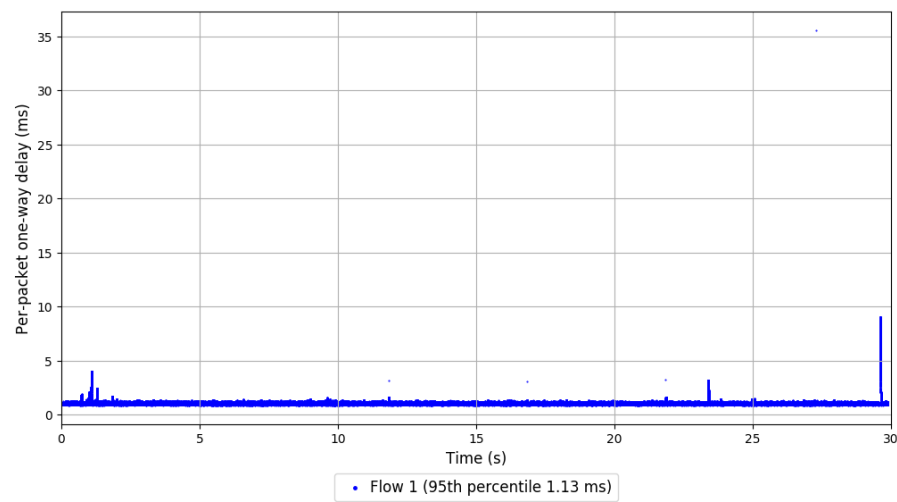
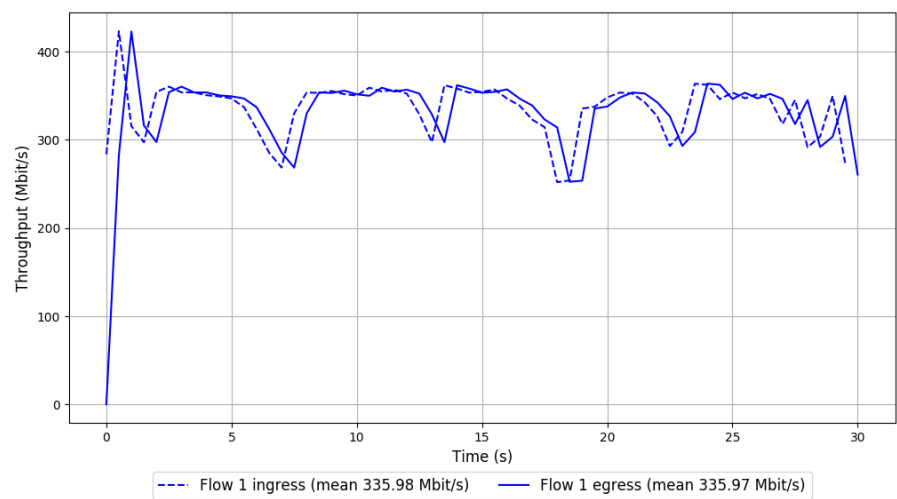


Run 10: Statistics of Copa

Start at: 2018-05-22 13:31:29
End at: 2018-05-22 13:31:59
Local clock offset: 0.446 ms
Remote clock offset: -0.073 ms

Below is generated by plot.py at 2018-05-22 14:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 335.97 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 335.97 Mbit/s
95th percentile per-packet one-way delay: 1.130 ms
Loss rate: 0.07%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-22 10:10:12

End at: 2018-05-22 10:10:42

Local clock offset: 0.134 ms

Remote clock offset: 3.732 ms

Below is generated by plot.py at 2018-05-22 14:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 455.55 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.05%

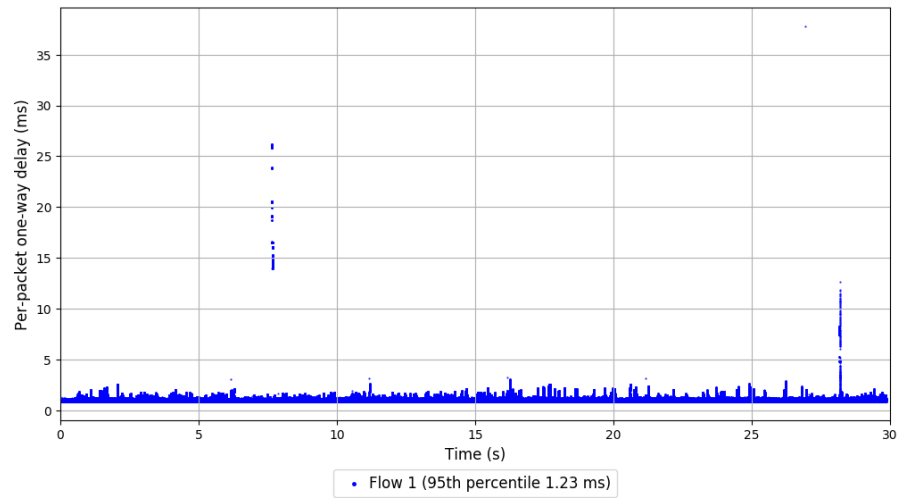
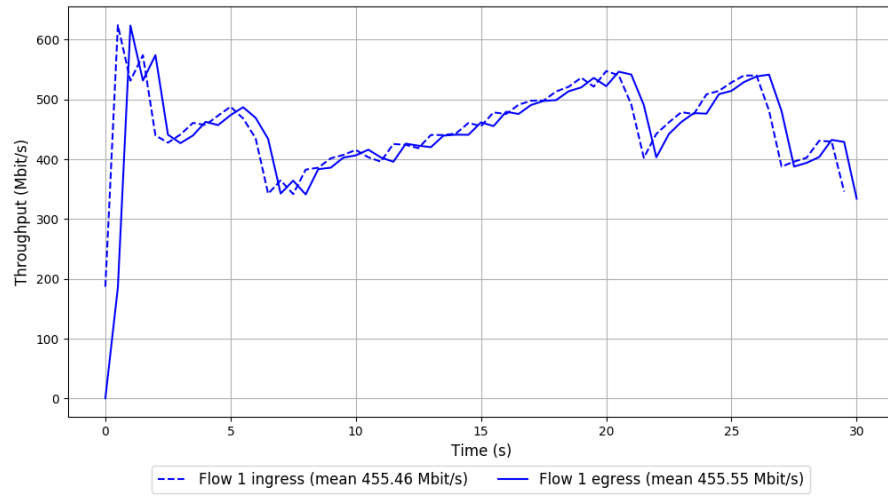
-- Flow 1:

Average throughput: 455.55 Mbit/s

95th percentile per-packet one-way delay: 1.226 ms

Loss rate: 0.05%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-22 10:34:21

End at: 2018-05-22 10:34:51

Local clock offset: 0.302 ms

Remote clock offset: 0.013 ms

Below is generated by plot.py at 2018-05-22 14:20:40

Datalink statistics

-- Total of 1 flow:

Average throughput: 485.44 Mbit/s

95th percentile per-packet one-way delay: 1.336 ms

Loss rate: 0.07%

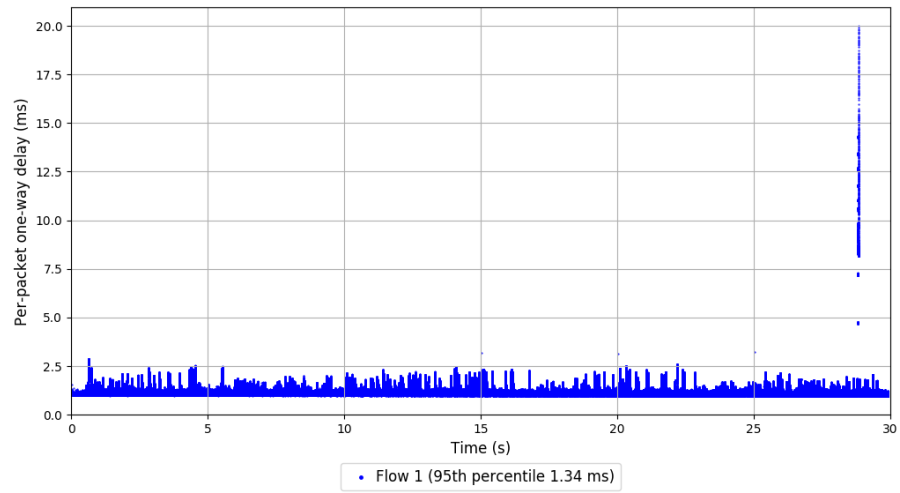
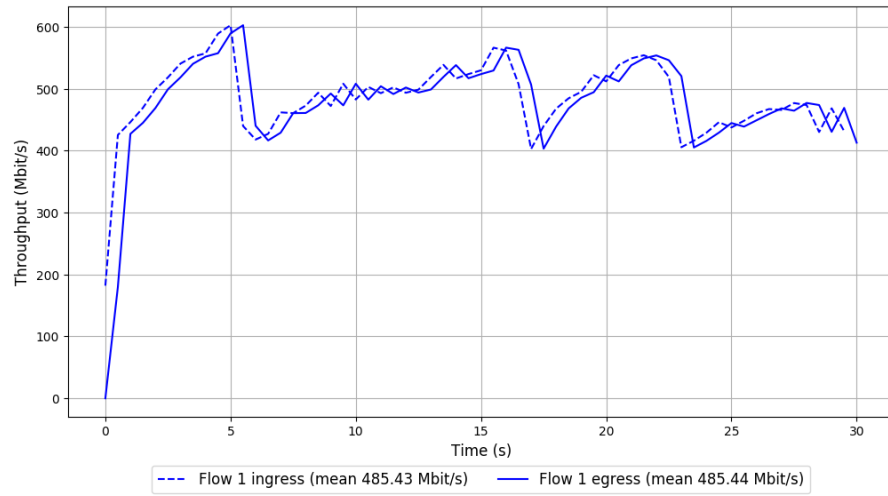
-- Flow 1:

Average throughput: 485.44 Mbit/s

95th percentile per-packet one-way delay: 1.336 ms

Loss rate: 0.07%

Run 2: Report of TCP Cubic — Data Link

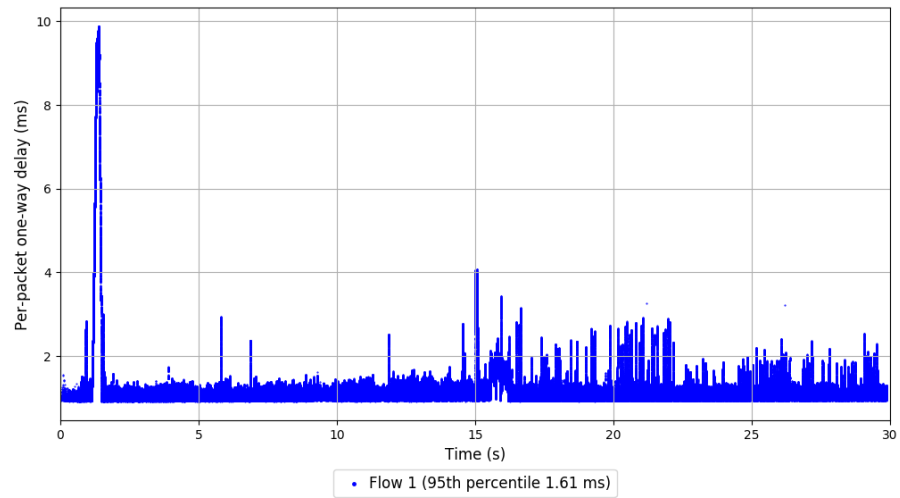
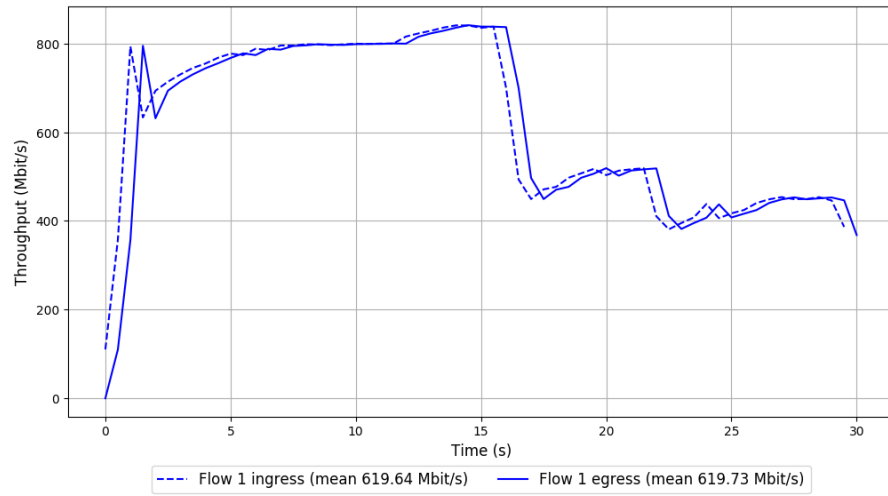


Run 3: Statistics of TCP Cubic

Start at: 2018-05-22 10:58:17
End at: 2018-05-22 10:58:47
Local clock offset: 0.229 ms
Remote clock offset: -0.312 ms

Below is generated by plot.py at 2018-05-22 14:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 619.73 Mbit/s
95th percentile per-packet one-way delay: 1.607 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 619.73 Mbit/s
95th percentile per-packet one-way delay: 1.607 ms
Loss rate: 0.05%

Run 3: Report of TCP Cubic — Data Link

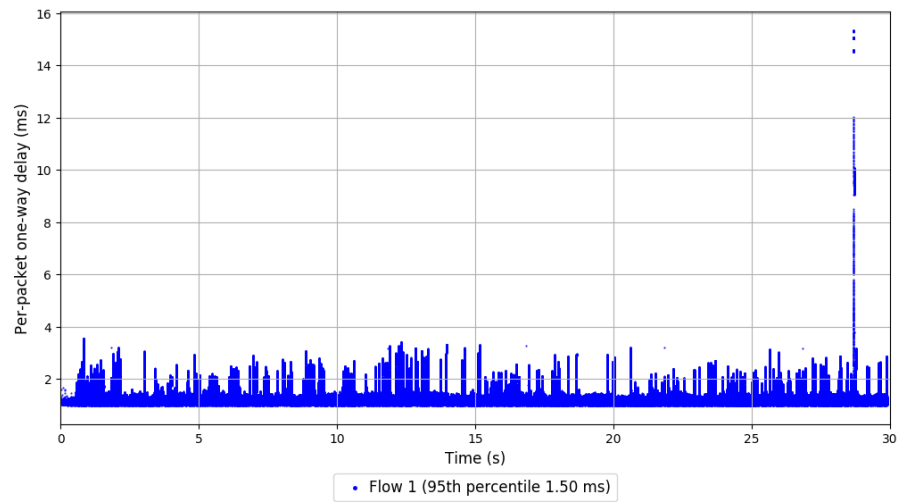
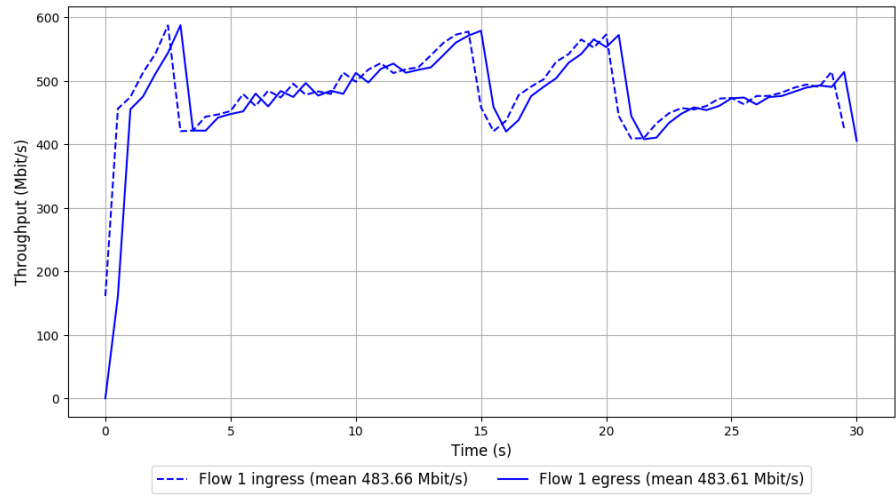


Run 4: Statistics of TCP Cubic

Start at: 2018-05-22 11:22:20
End at: 2018-05-22 11:22:50
Local clock offset: 0.069 ms
Remote clock offset: -0.362 ms

Below is generated by plot.py at 2018-05-22 14:20:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 483.61 Mbit/s
95th percentile per-packet one-way delay: 1.504 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 483.61 Mbit/s
95th percentile per-packet one-way delay: 1.504 ms
Loss rate: 0.07%

Run 4: Report of TCP Cubic — Data Link

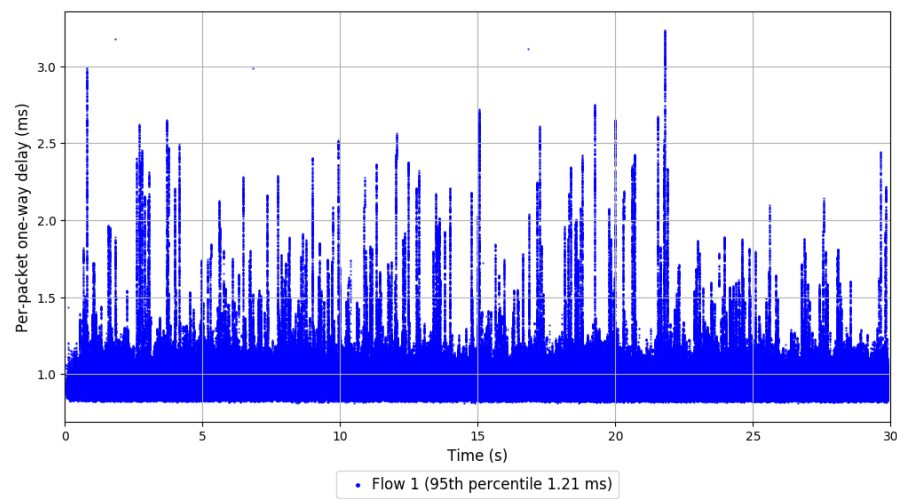
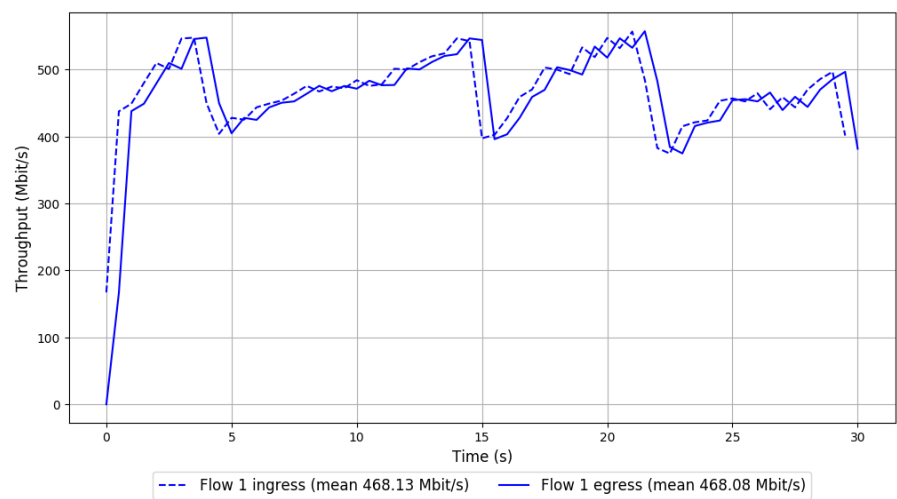


Run 5: Statistics of TCP Cubic

Start at: 2018-05-22 11:45:58
End at: 2018-05-22 11:46:28
Local clock offset: 0.219 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-05-22 14:23:26
Datalink statistics
-- Total of 1 flow:
Average throughput: 468.08 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 468.08 Mbit/s
95th percentile per-packet one-way delay: 1.211 ms
Loss rate: 0.07%

Run 5: Report of TCP Cubic — Data Link

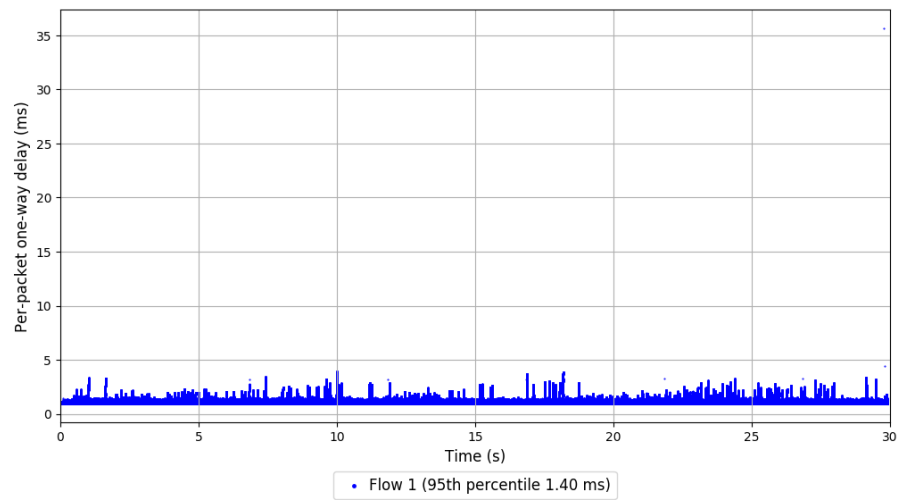
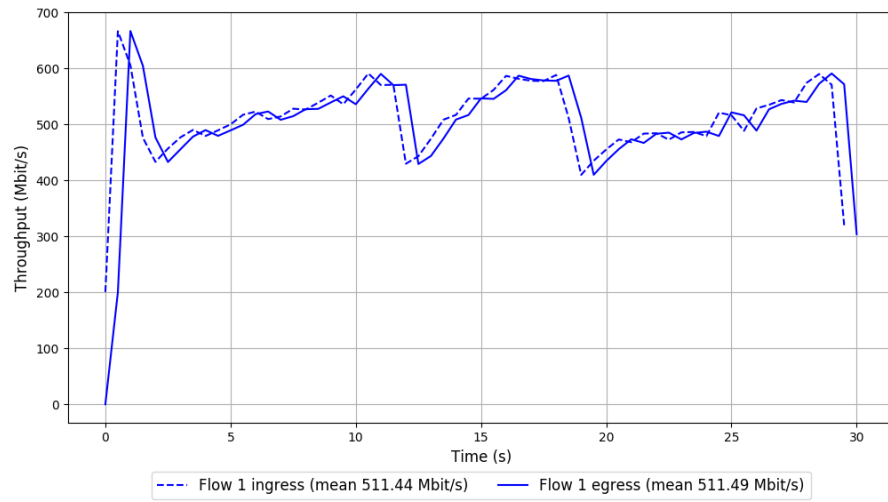


Run 6: Statistics of TCP Cubic

Start at: 2018-05-22 12:09:55
End at: 2018-05-22 12:10:25
Local clock offset: 0.329 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-05-22 14:24:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 511.49 Mbit/s
95th percentile per-packet one-way delay: 1.400 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 511.49 Mbit/s
95th percentile per-packet one-way delay: 1.400 ms
Loss rate: 0.05%

Run 6: Report of TCP Cubic — Data Link

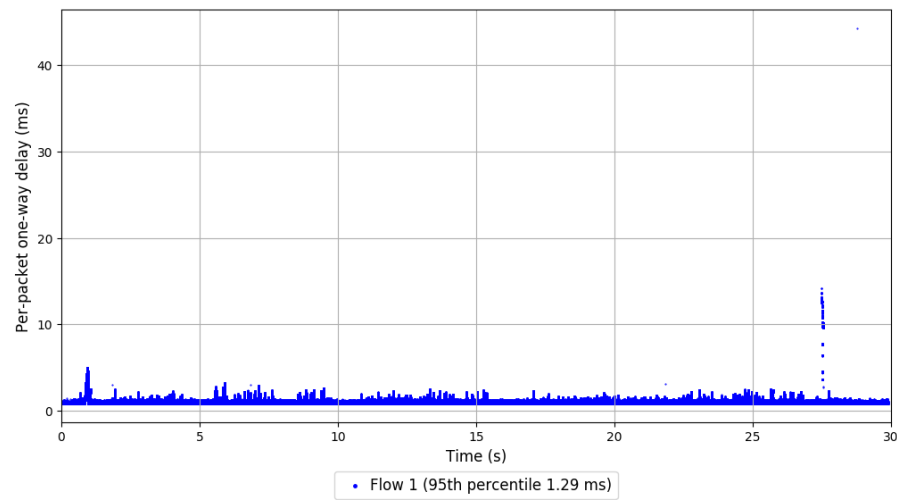
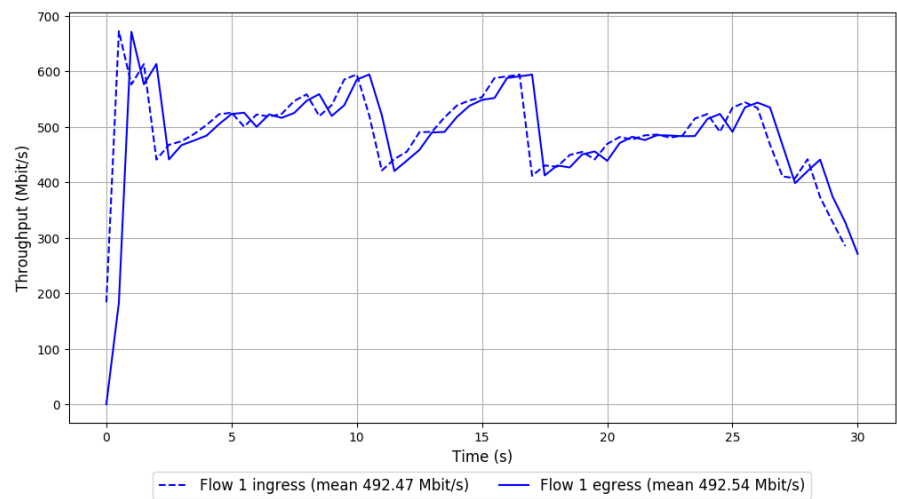


Run 7: Statistics of TCP Cubic

Start at: 2018-05-22 12:33:44
End at: 2018-05-22 12:34:14
Local clock offset: 0.292 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-05-22 14:24:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 492.54 Mbit/s
95th percentile per-packet one-way delay: 1.286 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 492.54 Mbit/s
95th percentile per-packet one-way delay: 1.286 ms
Loss rate: 0.05%

Run 7: Report of TCP Cubic — Data Link

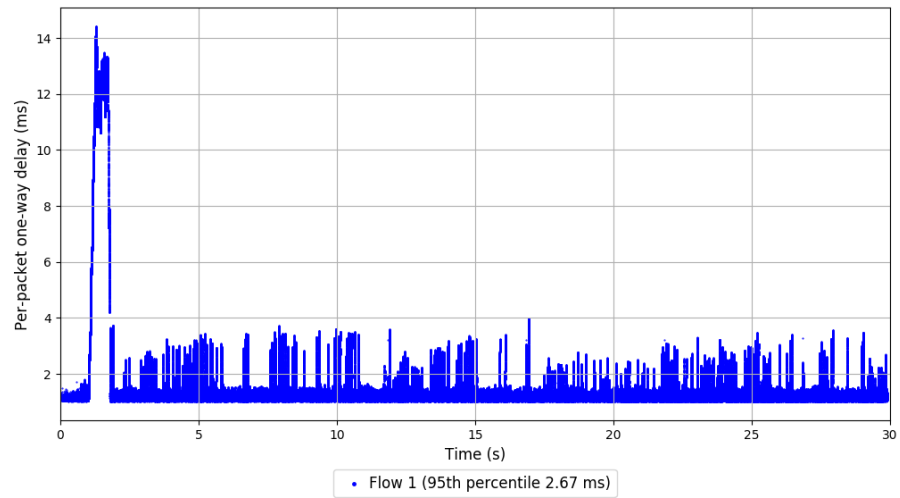
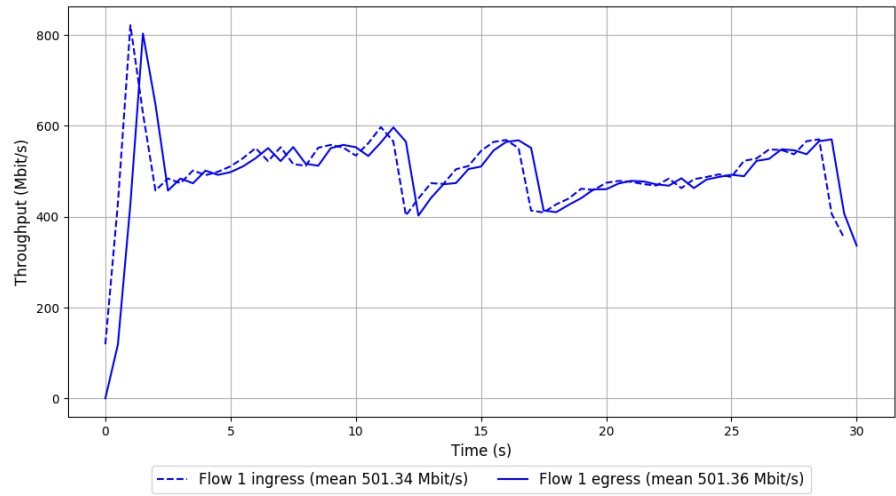


Run 8: Statistics of TCP Cubic

Start at: 2018-05-22 12:57:37
End at: 2018-05-22 12:58:07
Local clock offset: 0.426 ms
Remote clock offset: -0.435 ms

Below is generated by plot.py at 2018-05-22 14:24:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 501.36 Mbit/s
95th percentile per-packet one-way delay: 2.674 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 501.36 Mbit/s
95th percentile per-packet one-way delay: 2.674 ms
Loss rate: 0.06%

Run 8: Report of TCP Cubic — Data Link

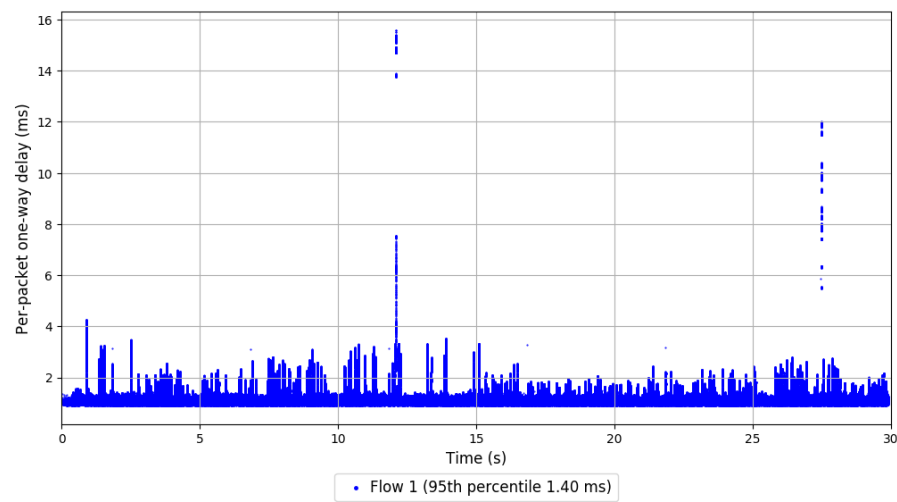
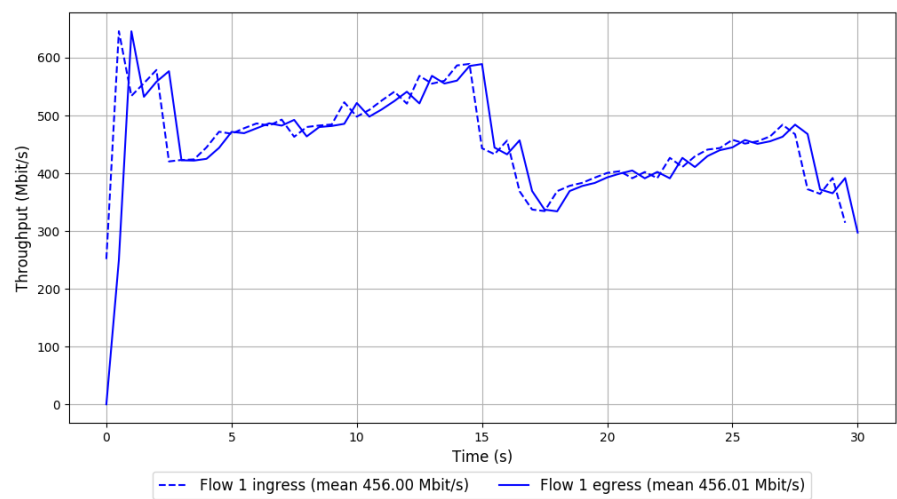


Run 9: Statistics of TCP Cubic

Start at: 2018-05-22 13:21:16
End at: 2018-05-22 13:21:46
Local clock offset: 0.458 ms
Remote clock offset: -0.066 ms

Below is generated by plot.py at 2018-05-22 14:24:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 456.01 Mbit/s
95th percentile per-packet one-way delay: 1.400 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 456.01 Mbit/s
95th percentile per-packet one-way delay: 1.400 ms
Loss rate: 0.06%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-22 13:45:17

End at: 2018-05-22 13:45:48

Local clock offset: 0.325 ms

Remote clock offset: -0.136 ms

Below is generated by plot.py at 2018-05-22 14:27:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 772.96 Mbit/s

95th percentile per-packet one-way delay: 10.644 ms

Loss rate: 0.05%

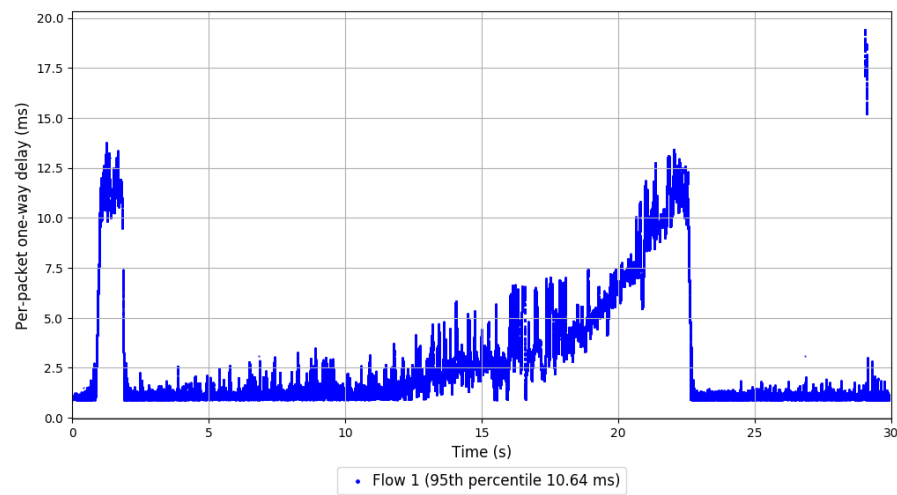
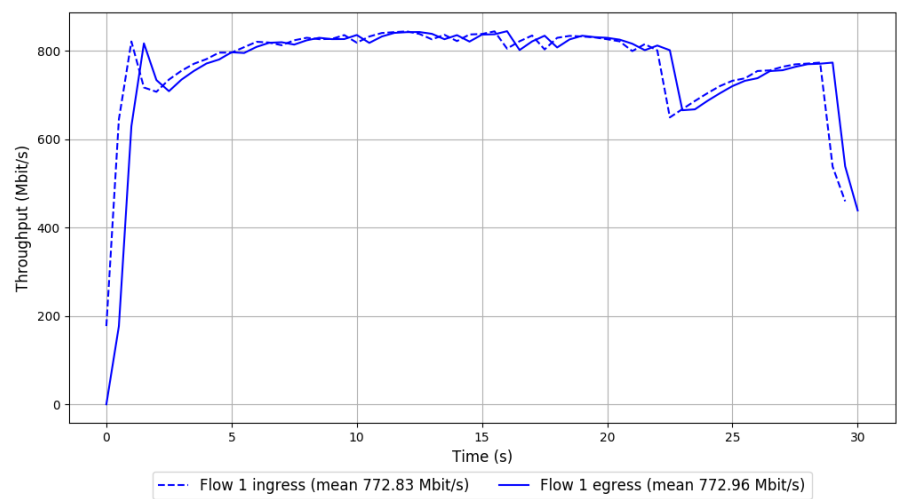
-- Flow 1:

Average throughput: 772.96 Mbit/s

95th percentile per-packet one-way delay: 10.644 ms

Loss rate: 0.05%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-22 10:11:43

End at: 2018-05-22 10:12:13

Local clock offset: 0.212 ms

Remote clock offset: 3.801 ms

Below is generated by plot.py at 2018-05-22 14:33:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 918.91 Mbit/s

95th percentile per-packet one-way delay: 2.615 ms

Loss rate: 0.09%

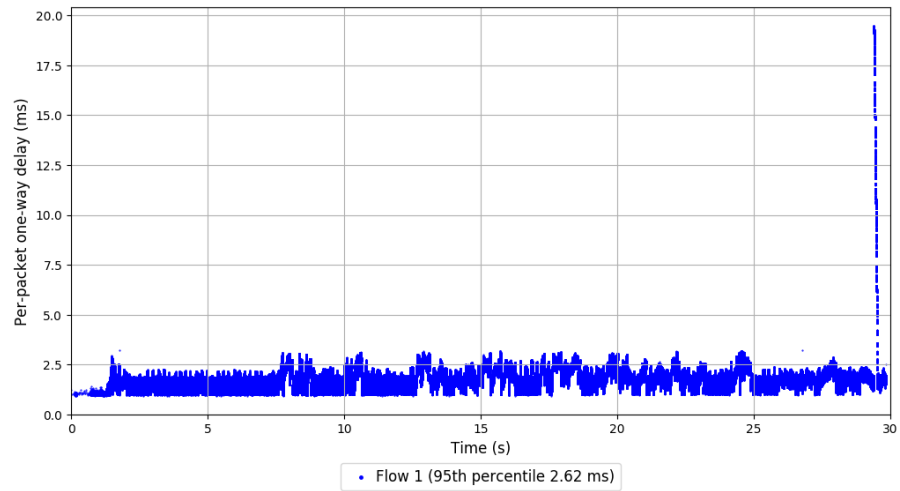
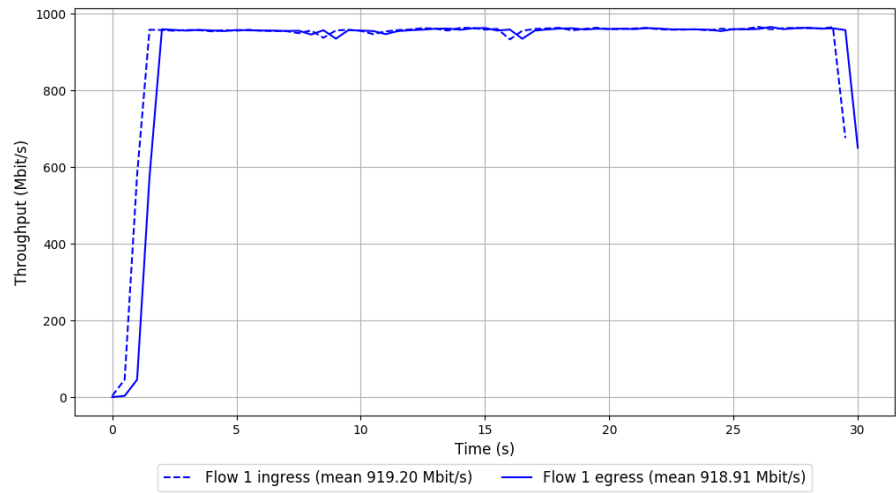
-- Flow 1:

Average throughput: 918.91 Mbit/s

95th percentile per-packet one-way delay: 2.615 ms

Loss rate: 0.09%

Run 1: Report of FillP — Data Link

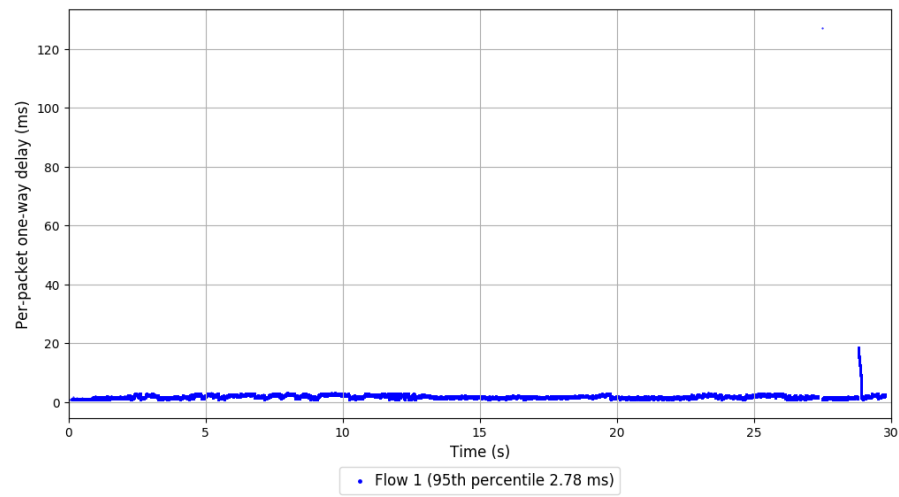
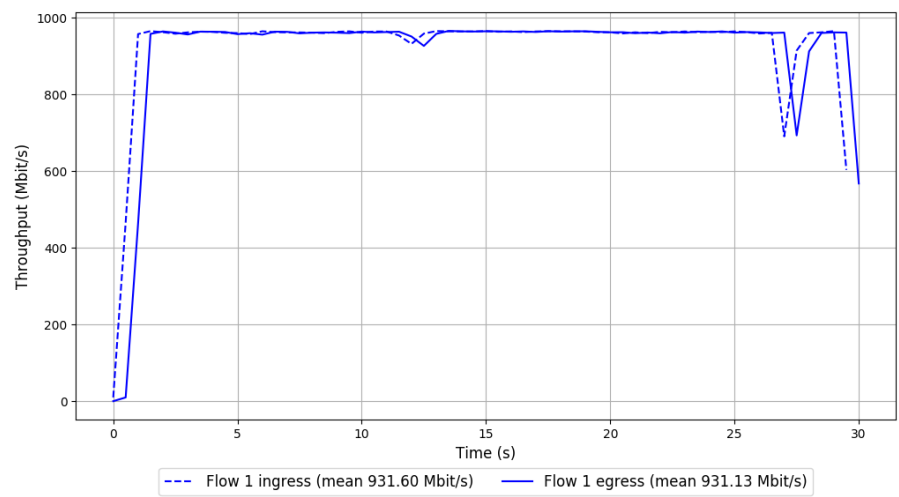


Run 2: Statistics of FillP

Start at: 2018-05-22 10:35:54
End at: 2018-05-22 10:36:24
Local clock offset: 0.327 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-05-22 14:34:40
Datalink statistics
-- Total of 1 flow:
Average throughput: 931.13 Mbit/s
95th percentile per-packet one-way delay: 2.781 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 931.13 Mbit/s
95th percentile per-packet one-way delay: 2.781 ms
Loss rate: 0.12%

Run 2: Report of FillP — Data Link

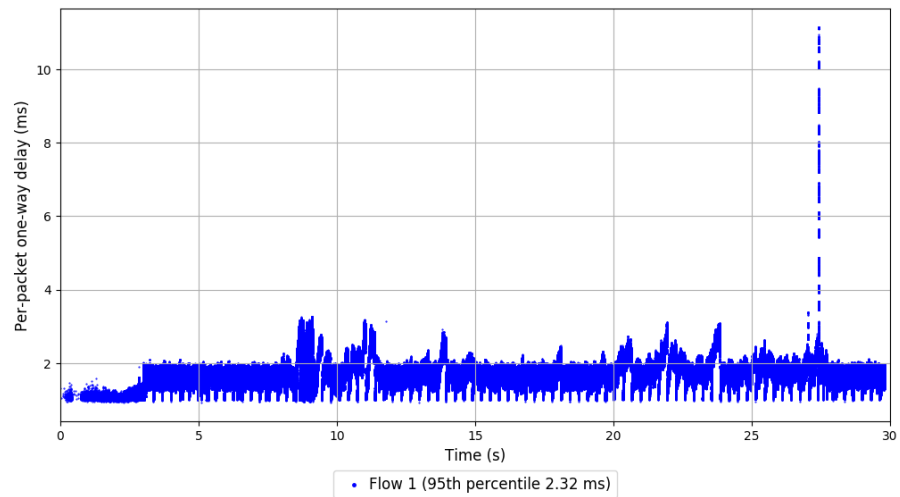
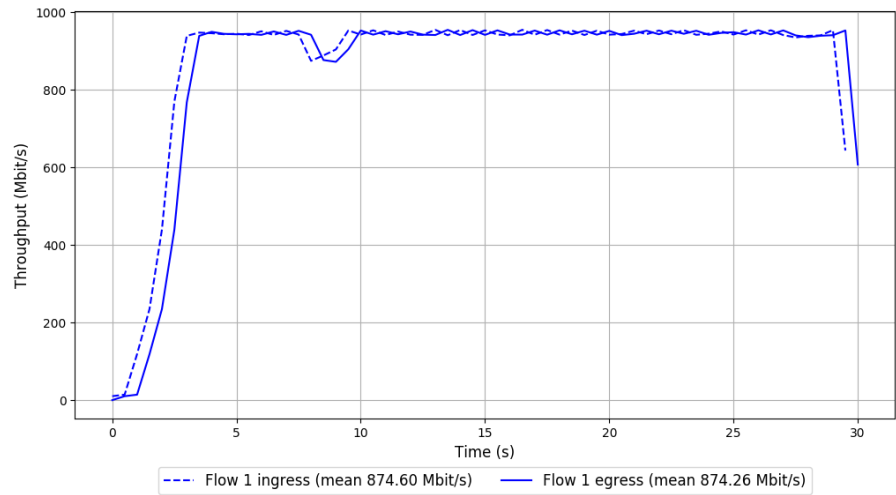


Run 3: Statistics of FillP

Start at: 2018-05-22 10:59:54
End at: 2018-05-22 11:00:24
Local clock offset: 0.284 ms
Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-05-22 14:35:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 874.26 Mbit/s
95th percentile per-packet one-way delay: 2.322 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 874.26 Mbit/s
95th percentile per-packet one-way delay: 2.322 ms
Loss rate: 0.11%

Run 3: Report of FillP — Data Link

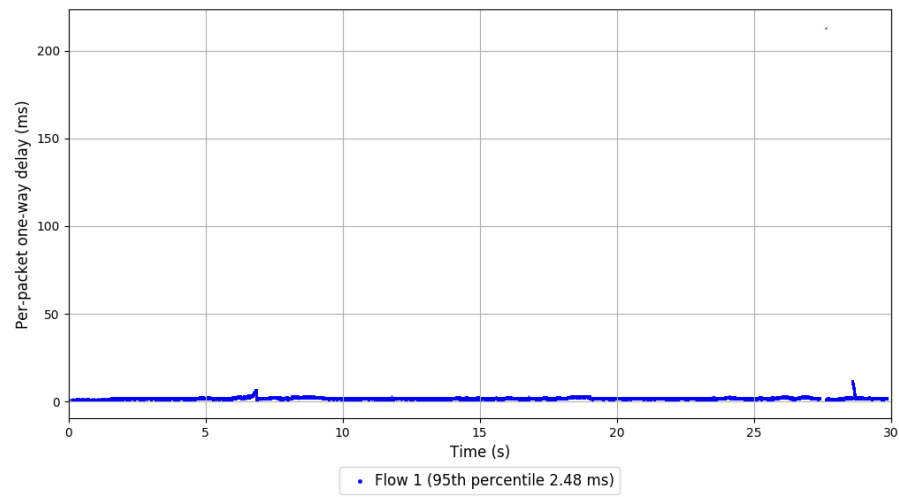
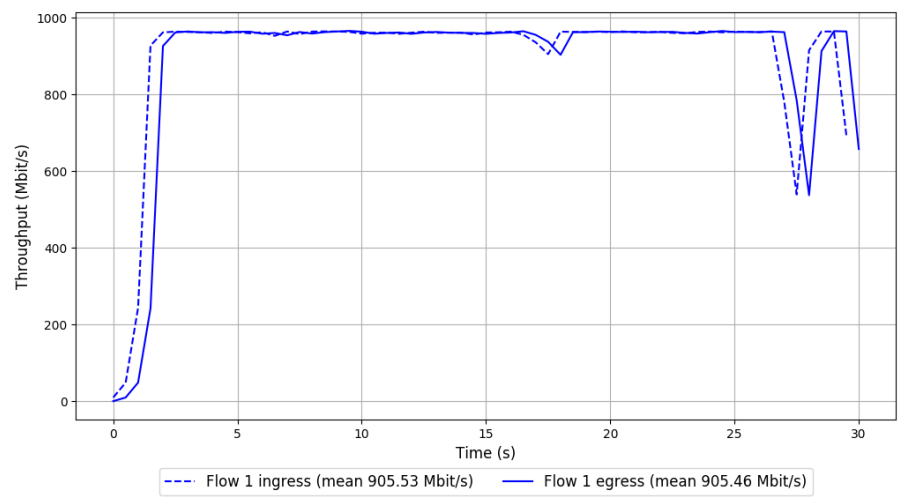


Run 4: Statistics of FillP

Start at: 2018-05-22 11:23:53
End at: 2018-05-22 11:24:23
Local clock offset: -0.046 ms
Remote clock offset: -0.376 ms

Below is generated by plot.py at 2018-05-22 14:36:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 905.46 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 905.46 Mbit/s
95th percentile per-packet one-way delay: 2.485 ms
Loss rate: 0.08%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-22 11:47:30

End at: 2018-05-22 11:48:00

Local clock offset: 0.314 ms

Remote clock offset: -0.24 ms

Below is generated by plot.py at 2018-05-22 14:36:29

Datalink statistics

-- Total of 1 flow:

Average throughput: 913.40 Mbit/s

95th percentile per-packet one-way delay: 2.913 ms

Loss rate: 0.10%

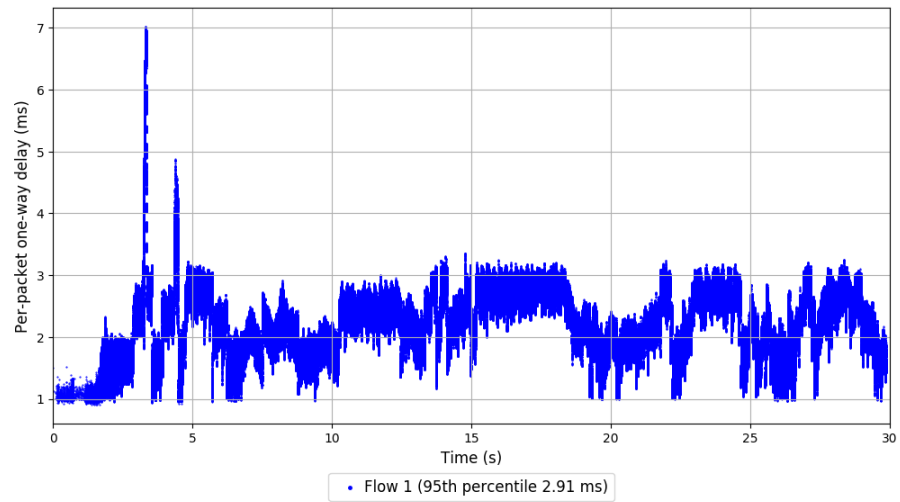
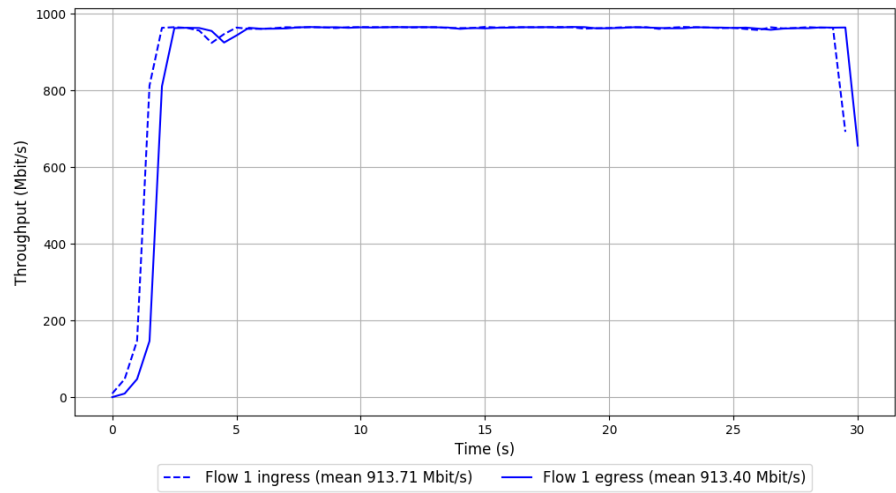
-- Flow 1:

Average throughput: 913.40 Mbit/s

95th percentile per-packet one-way delay: 2.913 ms

Loss rate: 0.10%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-22 12:11:29

End at: 2018-05-22 12:11:59

Local clock offset: 0.32 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-05-22 14:36:56

Datalink statistics

-- Total of 1 flow:

Average throughput: 934.80 Mbit/s

95th percentile per-packet one-way delay: 2.856 ms

Loss rate: 0.13%

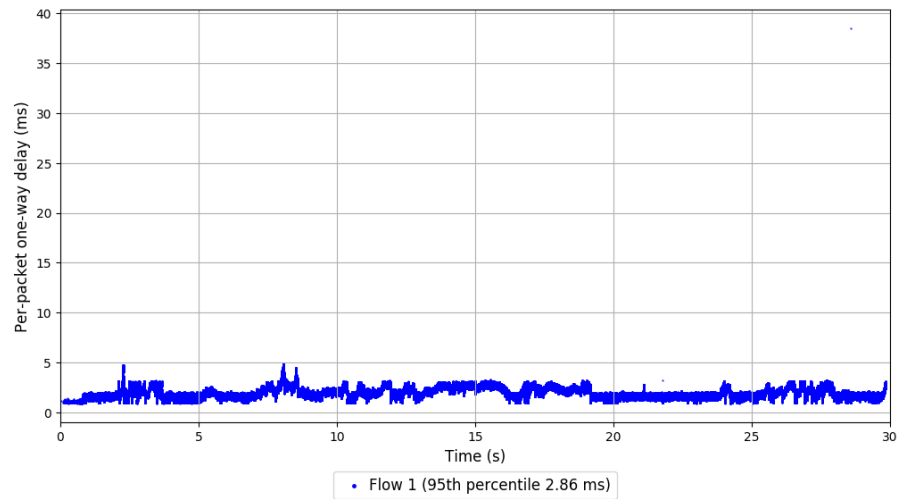
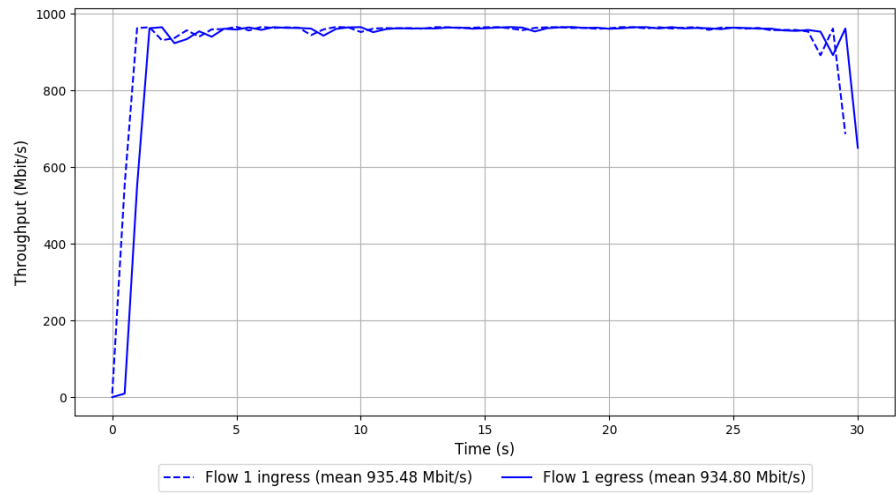
-- Flow 1:

Average throughput: 934.80 Mbit/s

95th percentile per-packet one-way delay: 2.856 ms

Loss rate: 0.13%

Run 6: Report of FillP — Data Link

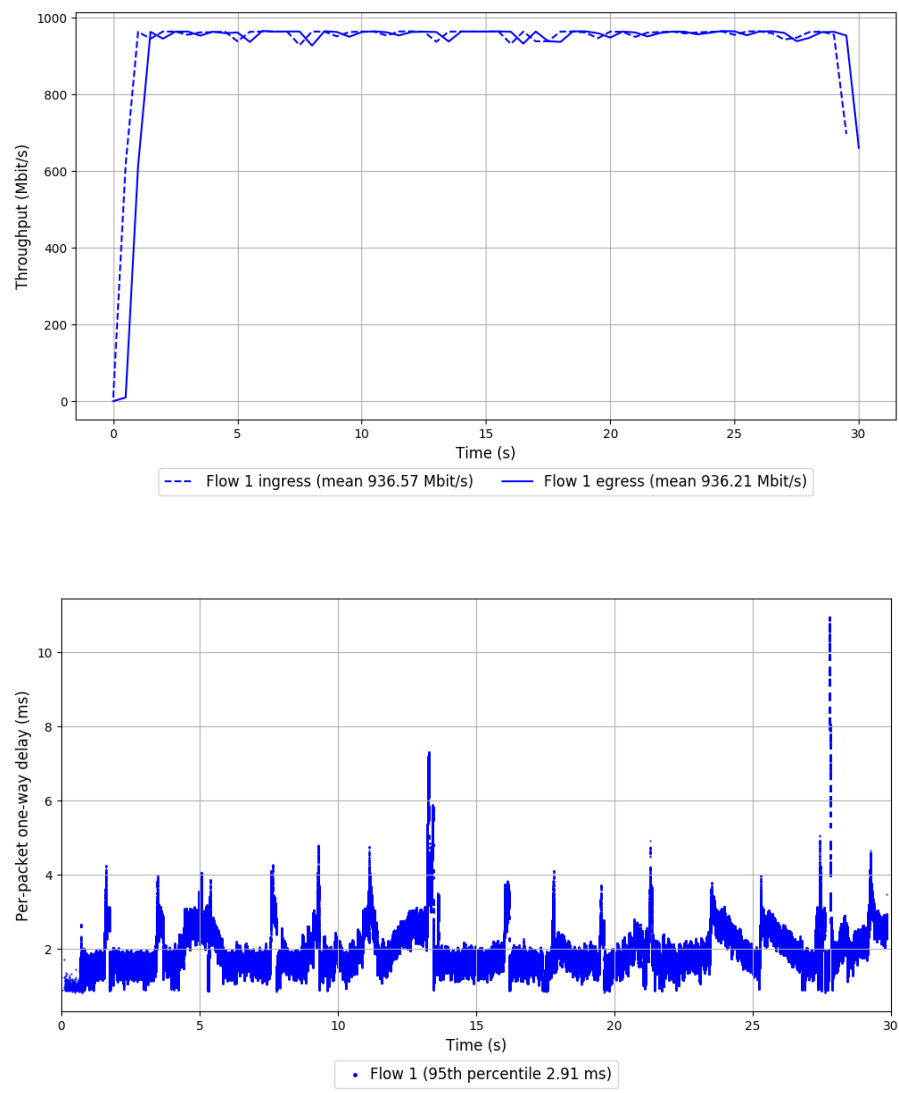


Run 7: Statistics of FillP

Start at: 2018-05-22 12:35:17
End at: 2018-05-22 12:35:47
Local clock offset: 0.287 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-05-22 14:37:00
Datalink statistics
-- Total of 1 flow:
Average throughput: 936.21 Mbit/s
95th percentile per-packet one-way delay: 2.913 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 936.21 Mbit/s
95th percentile per-packet one-way delay: 2.913 ms
Loss rate: 0.10%

Run 7: Report of FillP — Data Link

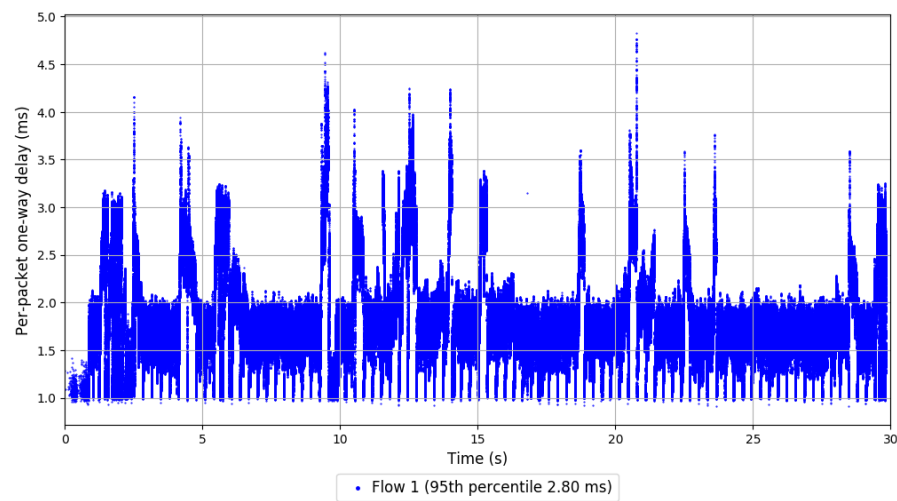
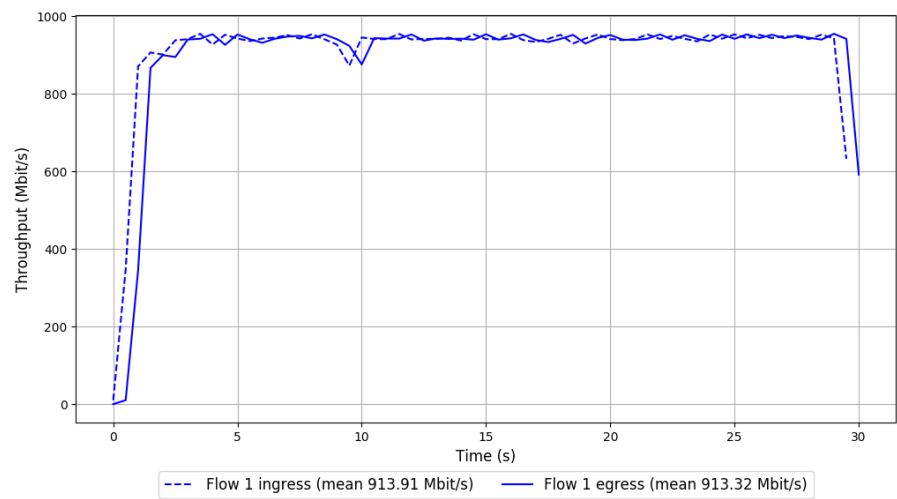


Run 8: Statistics of FillP

Start at: 2018-05-22 12:59:10
End at: 2018-05-22 12:59:40
Local clock offset: 0.406 ms
Remote clock offset: -0.457 ms

Below is generated by plot.py at 2018-05-22 14:41:21
Datalink statistics
-- Total of 1 flow:
Average throughput: 913.32 Mbit/s
95th percentile per-packet one-way delay: 2.799 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 913.32 Mbit/s
95th percentile per-packet one-way delay: 2.799 ms
Loss rate: 0.13%

Run 8: Report of FillP — Data Link

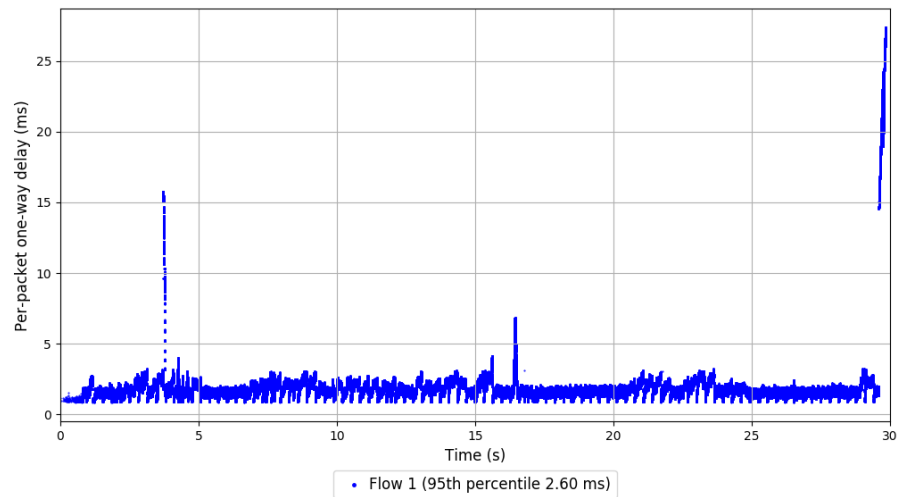
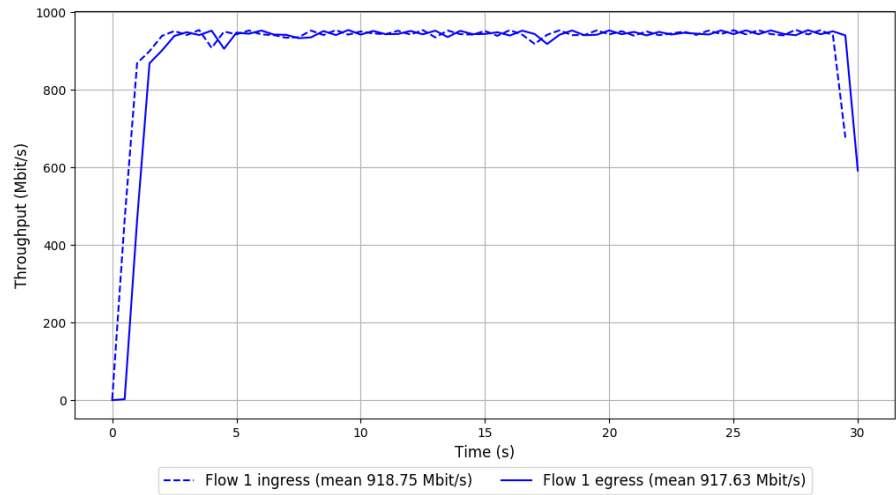


Run 9: Statistics of FillP

Start at: 2018-05-22 13:22:47
End at: 2018-05-22 13:23:17
Local clock offset: 0.377 ms
Remote clock offset: -0.098 ms

Below is generated by plot.py at 2018-05-22 14:46:58
Datalink statistics
-- Total of 1 flow:
Average throughput: 917.63 Mbit/s
95th percentile per-packet one-way delay: 2.603 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 917.63 Mbit/s
95th percentile per-packet one-way delay: 2.603 ms
Loss rate: 0.19%

Run 9: Report of FillP — Data Link

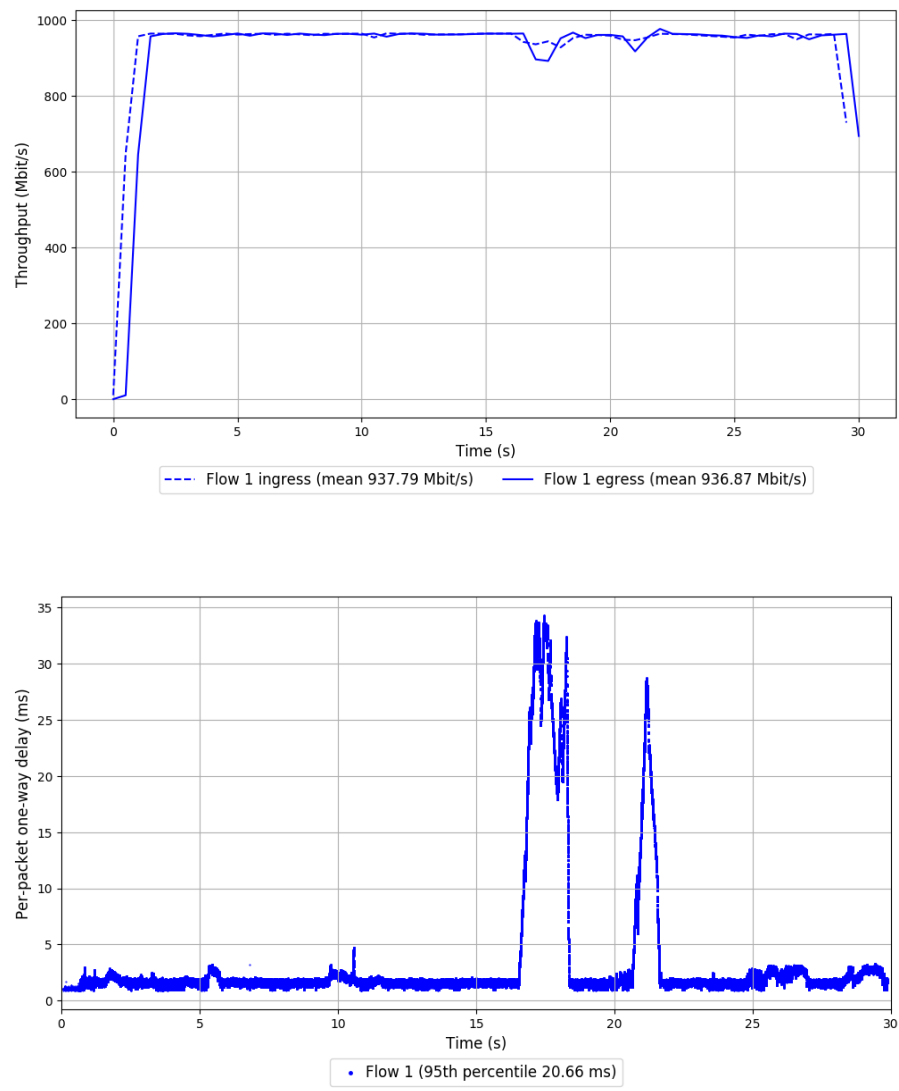


Run 10: Statistics of FillP

Start at: 2018-05-22 13:47:00
End at: 2018-05-22 13:47:30
Local clock offset: 0.417 ms
Remote clock offset: -0.094 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 936.87 Mbit/s
95th percentile per-packet one-way delay: 20.655 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 936.87 Mbit/s
95th percentile per-packet one-way delay: 20.655 ms
Loss rate: 0.16%

Run 10: Report of FillP — Data Link

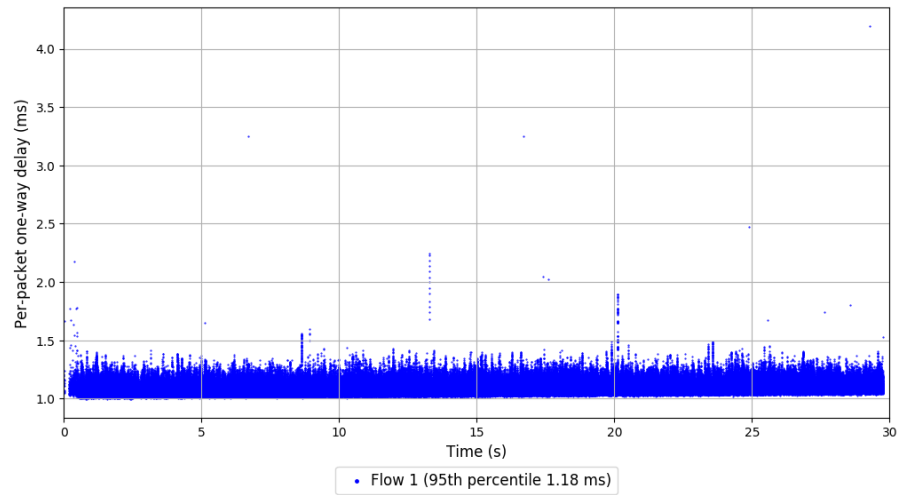
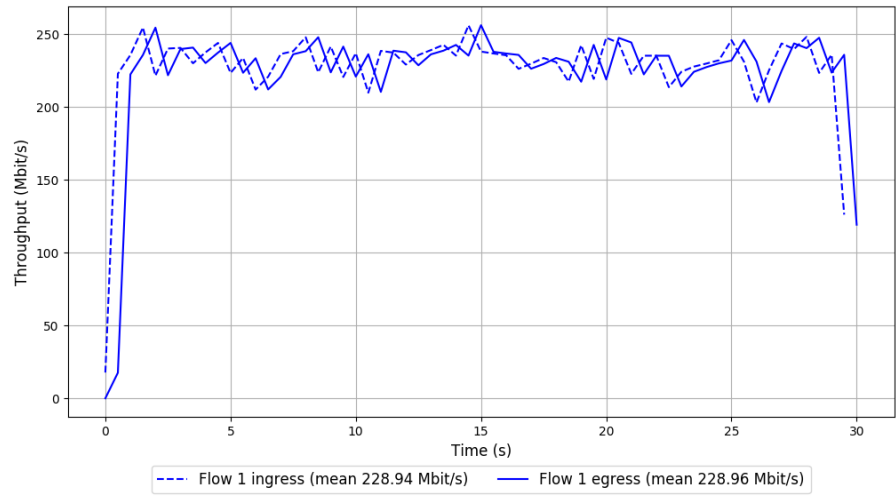


```
Run 1: Statistics of Indigo

Start at: 2018-05-22 10:00:50
End at: 2018-05-22 10:01:20
Local clock offset: 0.319 ms
Remote clock offset: 3.106 ms

# Below is generated by plot.py at 2018-05-22 14:47:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 228.96 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 228.96 Mbit/s
95th percentile per-packet one-way delay: 1.177 ms
Loss rate: 0.05%
```

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-22 10:24:57

End at: 2018-05-22 10:25:27

Local clock offset: 0.148 ms

Remote clock offset: 1.0 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.35 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.07%

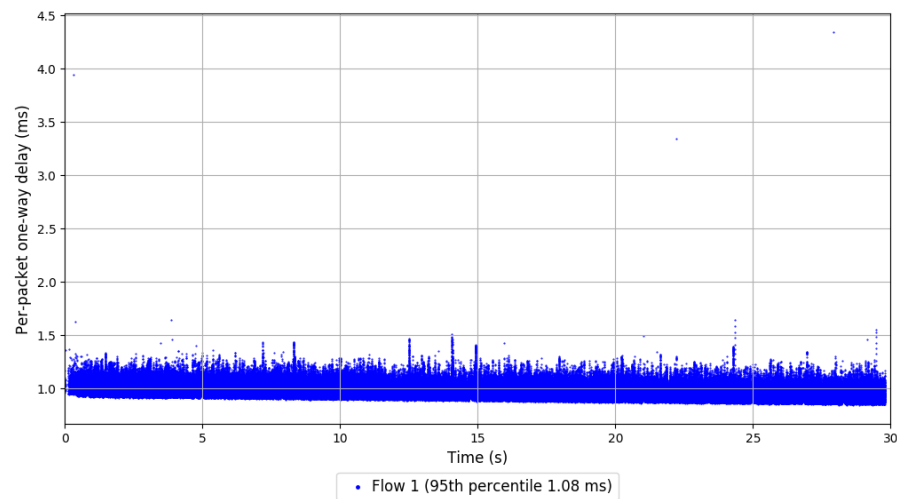
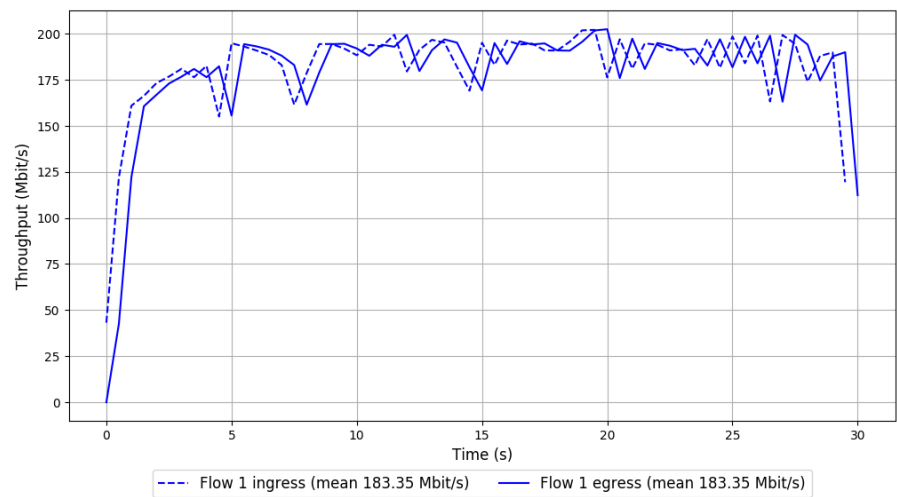
-- Flow 1:

Average throughput: 183.35 Mbit/s

95th percentile per-packet one-way delay: 1.084 ms

Loss rate: 0.07%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-22 10:48:54

End at: 2018-05-22 10:49:24

Local clock offset: 0.259 ms

Remote clock offset: -0.533 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 187.10 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.08%

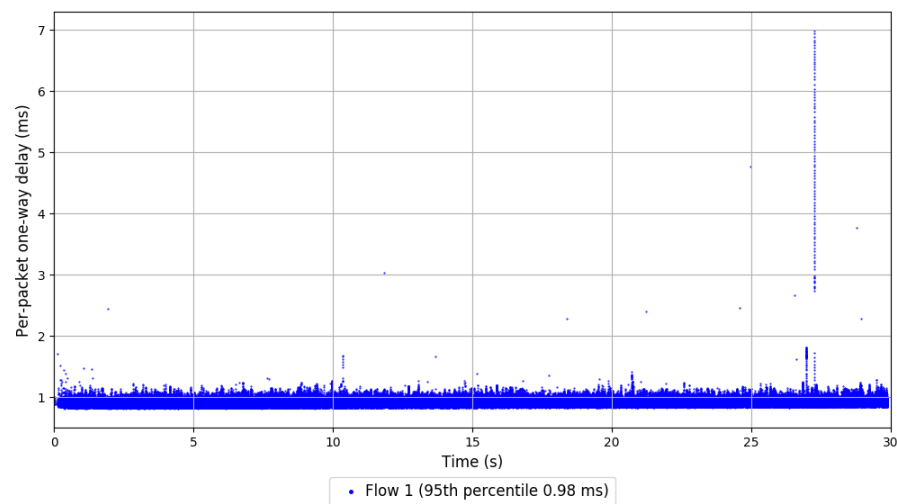
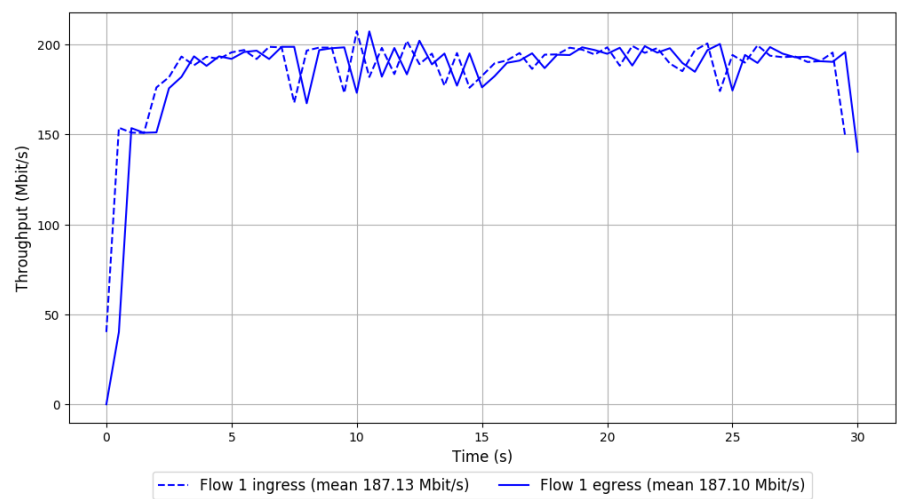
-- Flow 1:

Average throughput: 187.10 Mbit/s

95th percentile per-packet one-way delay: 0.984 ms

Loss rate: 0.08%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-22 11:13:06

End at: 2018-05-22 11:13:36

Local clock offset: 0.117 ms

Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 183.97 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.03%

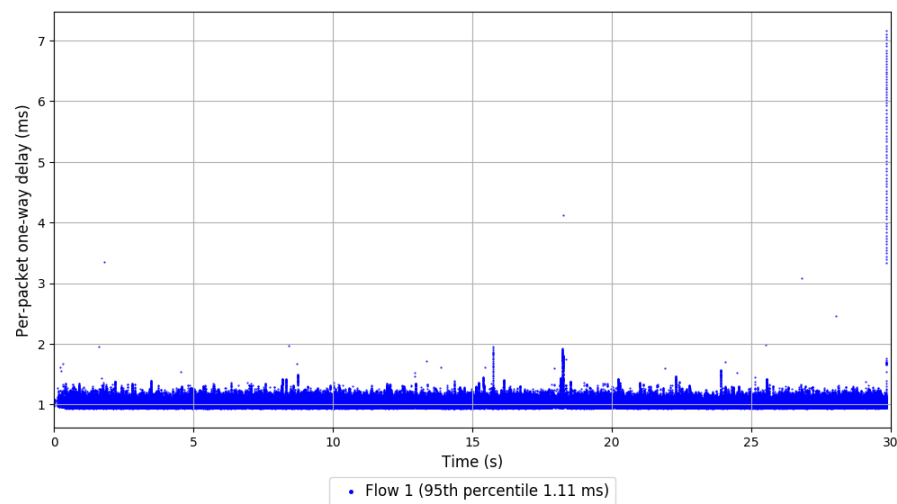
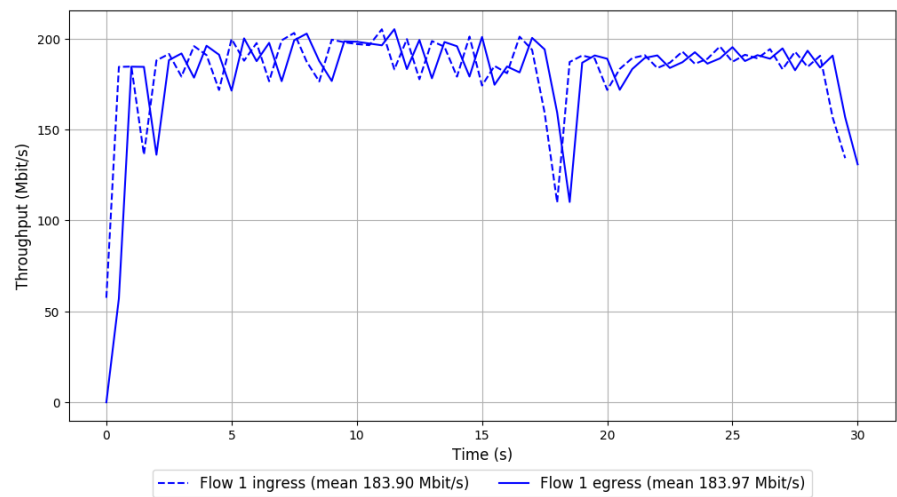
-- Flow 1:

Average throughput: 183.97 Mbit/s

95th percentile per-packet one-way delay: 1.113 ms

Loss rate: 0.03%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-22 11:36:53

End at: 2018-05-22 11:37:23

Local clock offset: 0.253 ms

Remote clock offset: -0.238 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.05%

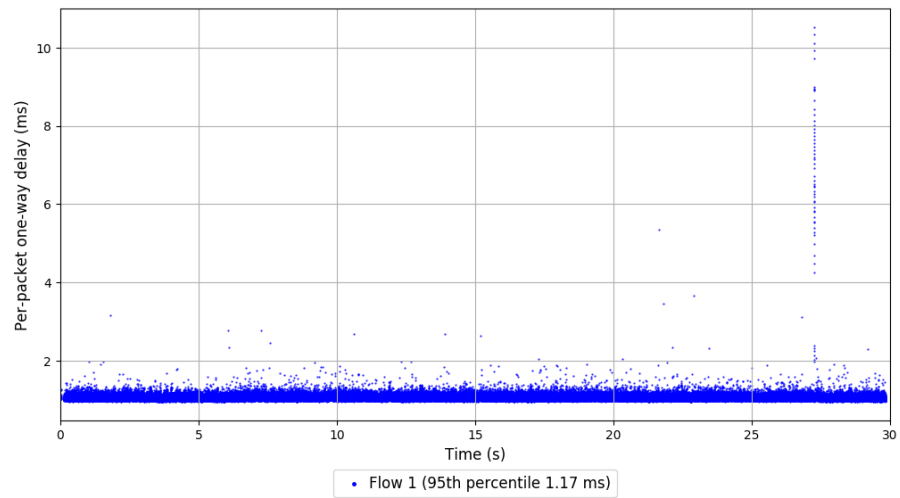
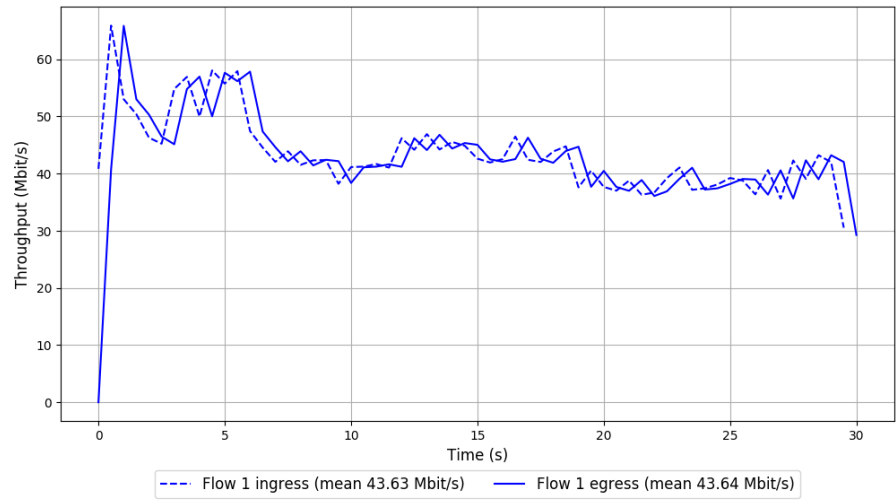
-- Flow 1:

Average throughput: 43.64 Mbit/s

95th percentile per-packet one-way delay: 1.173 ms

Loss rate: 0.05%

Run 5: Report of Indigo — Data Link

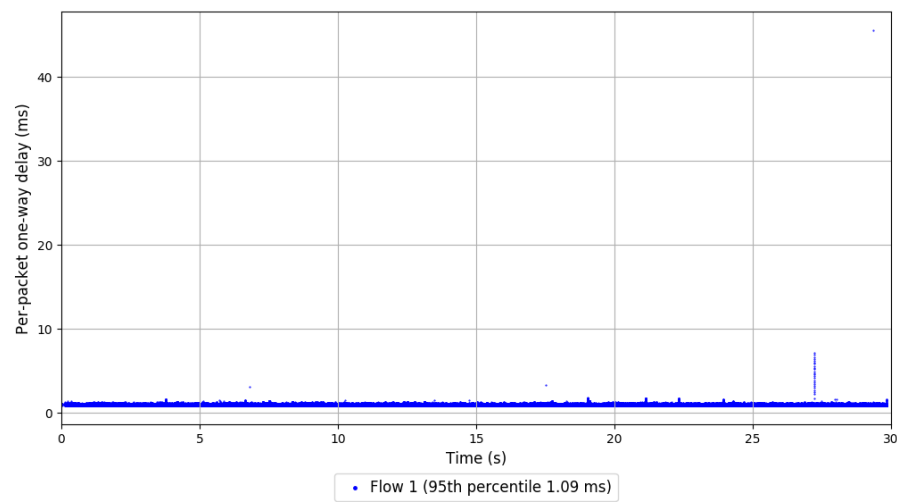
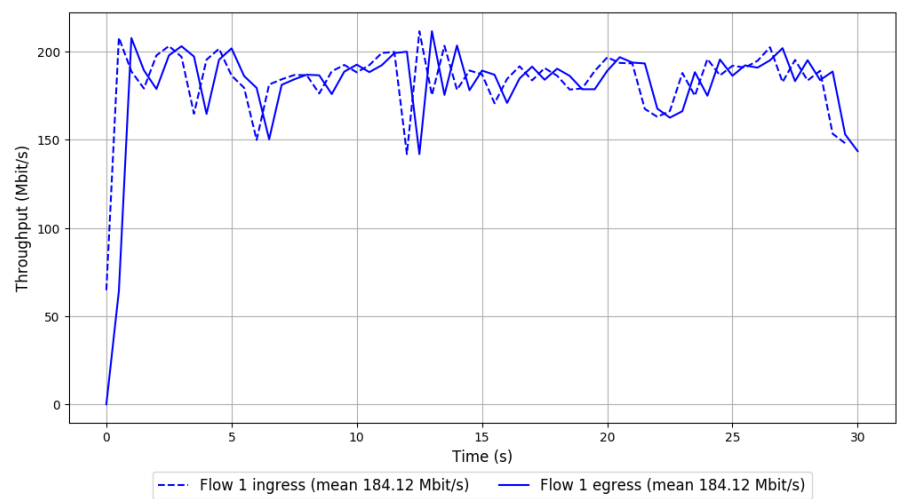


Run 6: Statistics of Indigo

Start at: 2018-05-22 12:00:40
End at: 2018-05-22 12:01:10
Local clock offset: 0.237 ms
Remote clock offset: -0.279 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 184.12 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 184.12 Mbit/s
95th percentile per-packet one-way delay: 1.093 ms
Loss rate: 0.05%

Run 6: Report of Indigo — Data Link

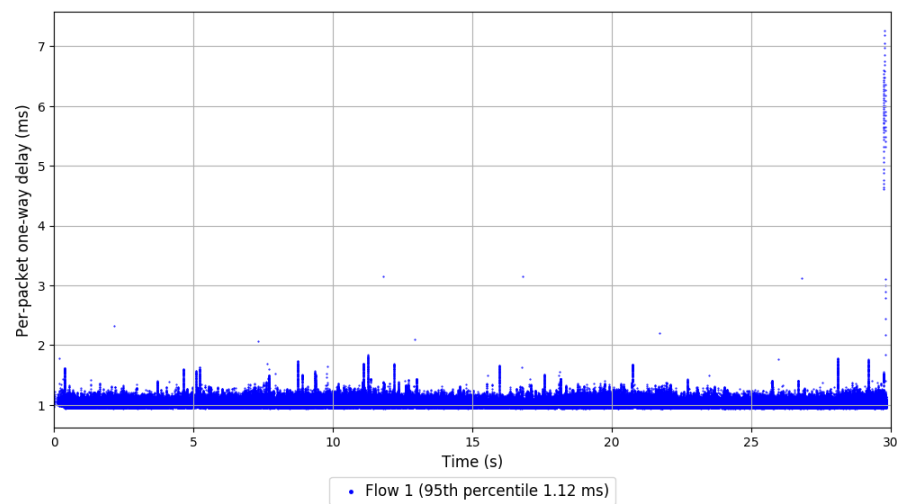
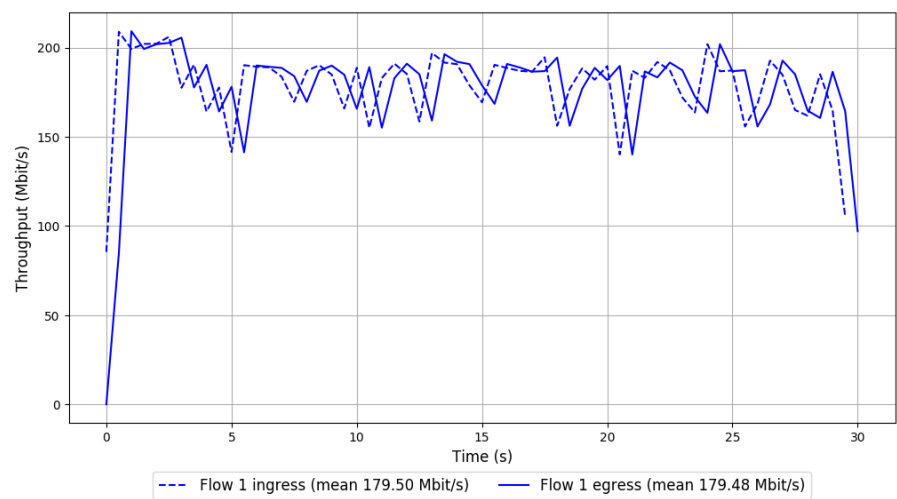


Run 7: Statistics of Indigo

Start at: 2018-05-22 12:24:24
End at: 2018-05-22 12:24:54
Local clock offset: 0.359 ms
Remote clock offset: -0.265 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 179.48 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 179.48 Mbit/s
95th percentile per-packet one-way delay: 1.117 ms
Loss rate: 0.08%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-22 12:48:23

End at: 2018-05-22 12:48:53

Local clock offset: 0.326 ms

Remote clock offset: -0.336 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 179.97 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.06%

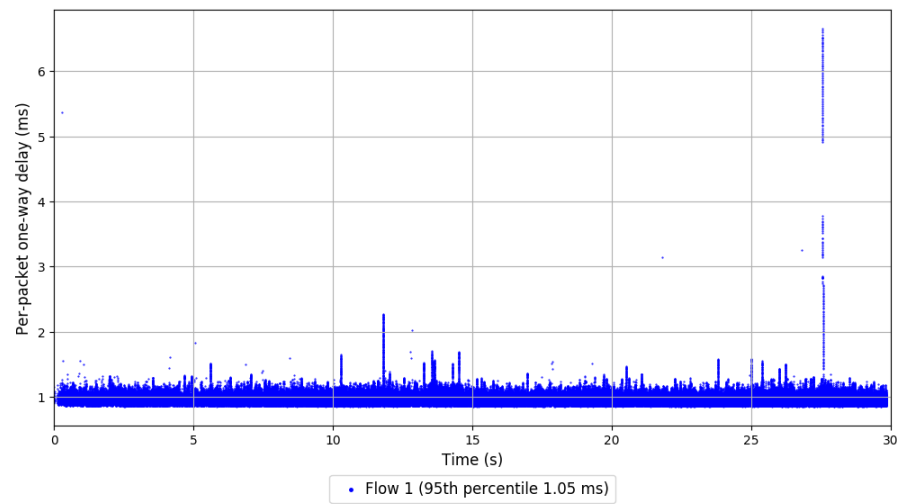
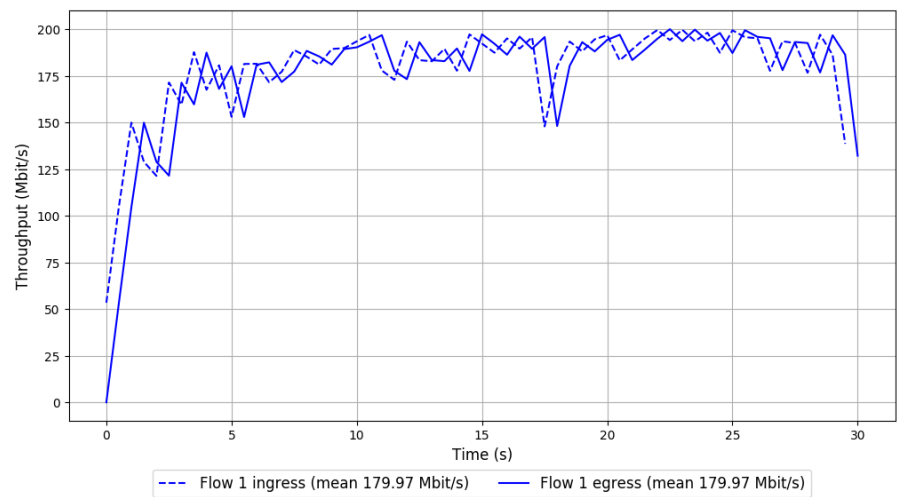
-- Flow 1:

Average throughput: 179.97 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.06%

Run 8: Report of Indigo — Data Link

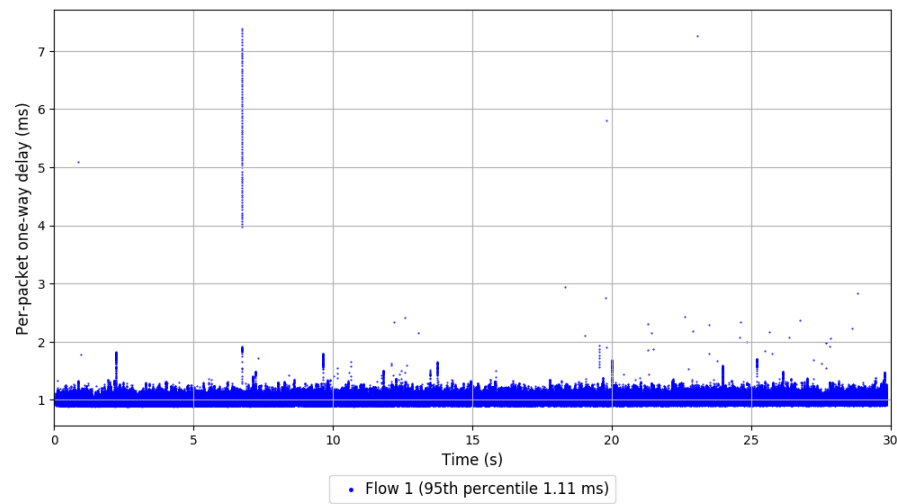
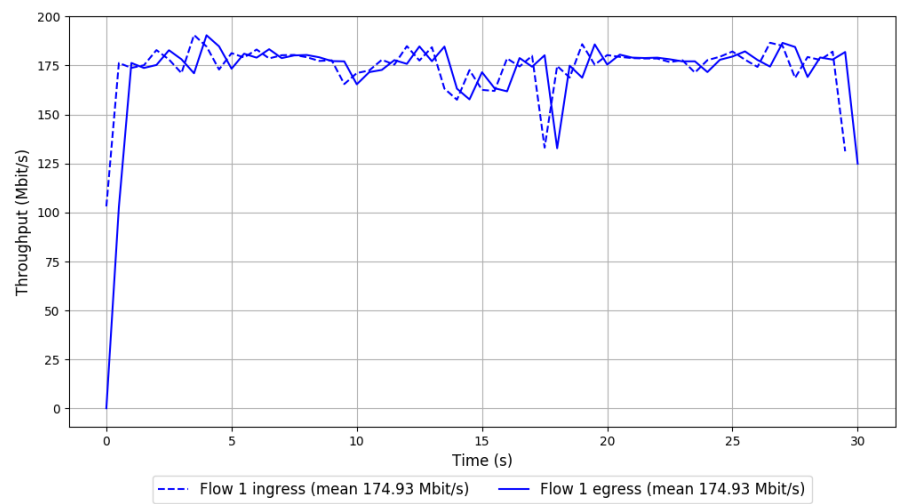


Run 9: Statistics of Indigo

Start at: 2018-05-22 13:12:02
End at: 2018-05-22 13:12:32
Local clock offset: 0.46 ms
Remote clock offset: -0.215 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 174.93 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 174.93 Mbit/s
95th percentile per-packet one-way delay: 1.111 ms
Loss rate: 0.07%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-22 13:35:57

End at: 2018-05-22 13:36:27

Local clock offset: 0.358 ms

Remote clock offset: -0.102 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 214.91 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.06%

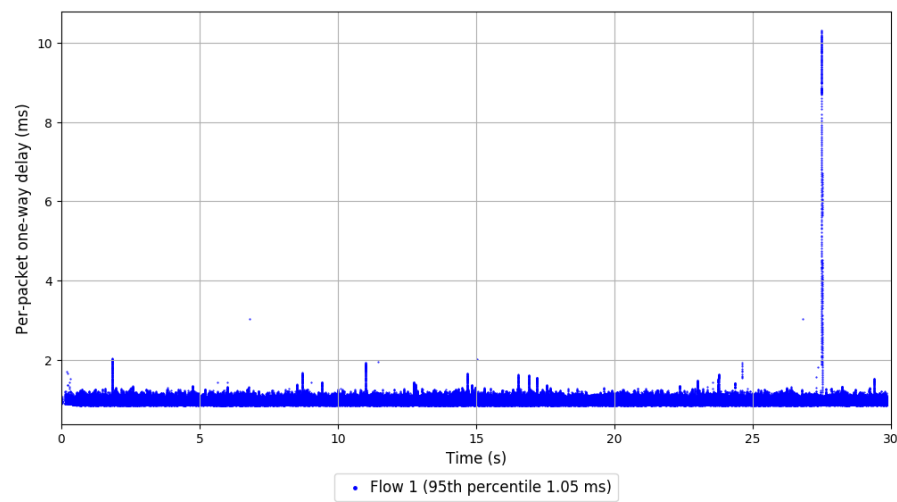
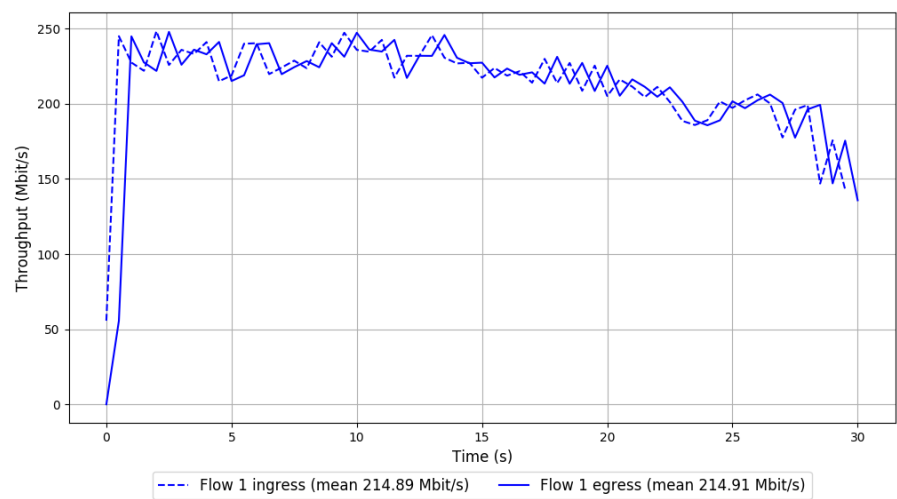
-- Flow 1:

Average throughput: 214.91 Mbit/s

95th percentile per-packet one-way delay: 1.055 ms

Loss rate: 0.06%

Run 10: Report of Indigo — Data Link

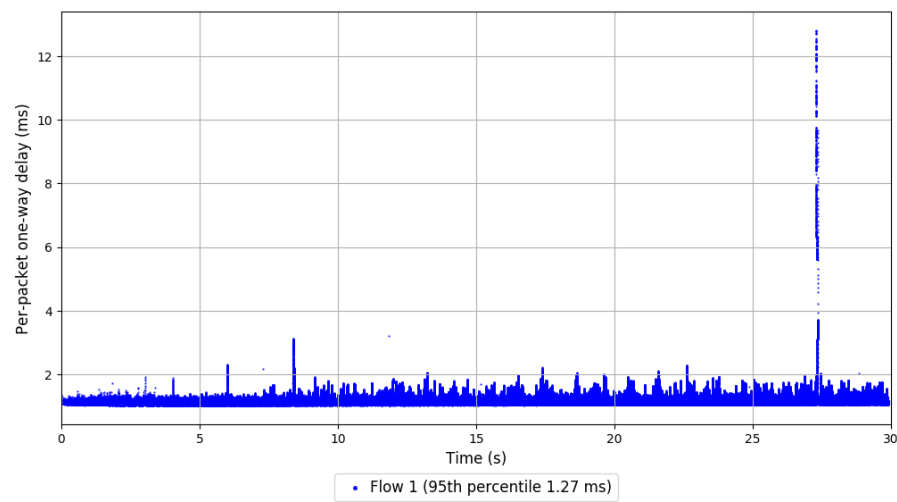
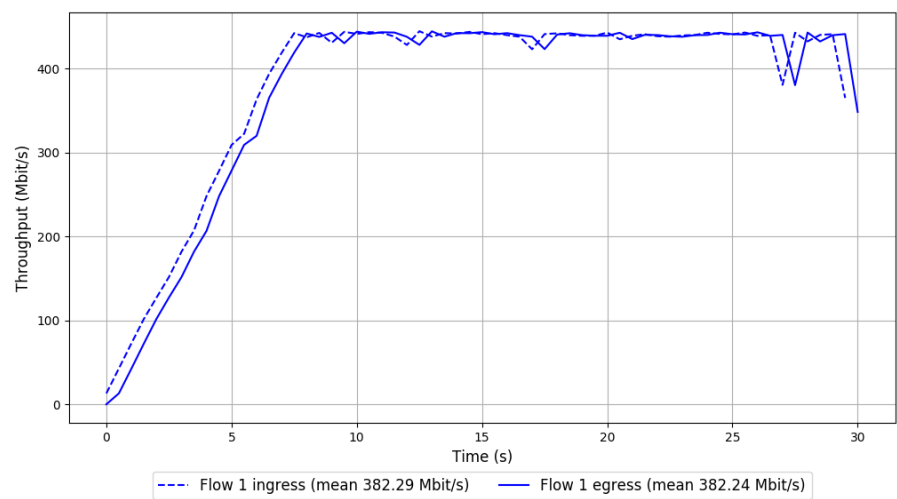


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-22 10:02:17
End at: 2018-05-22 10:02:47
Local clock offset: 0.303 ms
Remote clock offset: 3.222 ms

# Below is generated by plot.py at 2018-05-22 14:47:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 382.24 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 382.24 Mbit/s
95th percentile per-packet one-way delay: 1.274 ms
Loss rate: 0.08%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-22 10:26:22

End at: 2018-05-22 10:26:52

Local clock offset: 0.153 ms

Remote clock offset: 0.771 ms

Below is generated by plot.py at 2018-05-22 14:47:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.49 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.08%

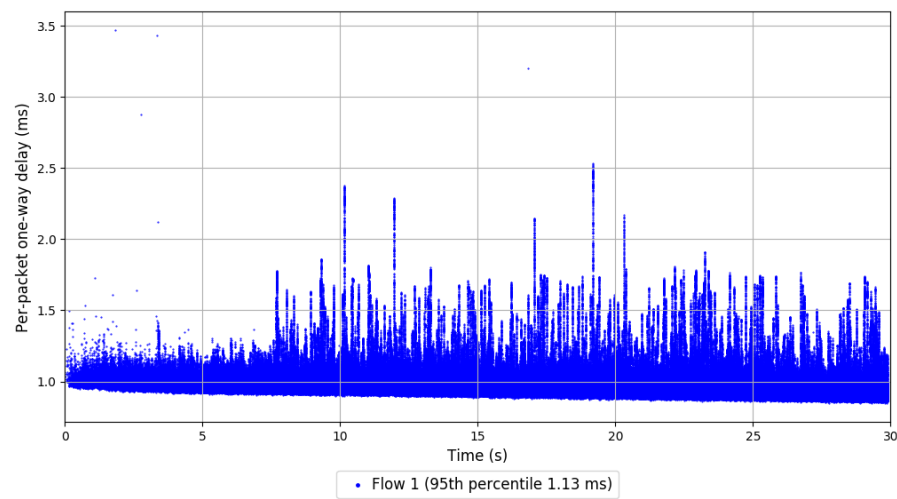
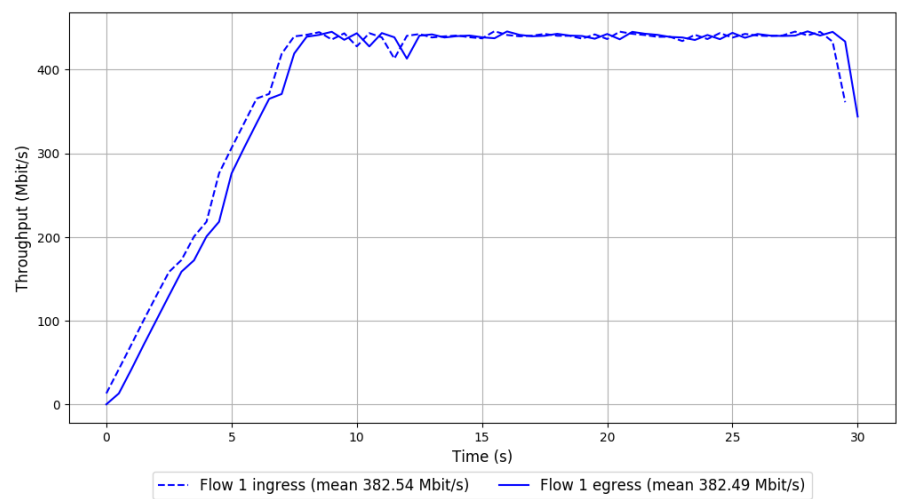
-- Flow 1:

Average throughput: 382.49 Mbit/s

95th percentile per-packet one-way delay: 1.128 ms

Loss rate: 0.08%

Run 2: Report of LEDBAT — Data Link

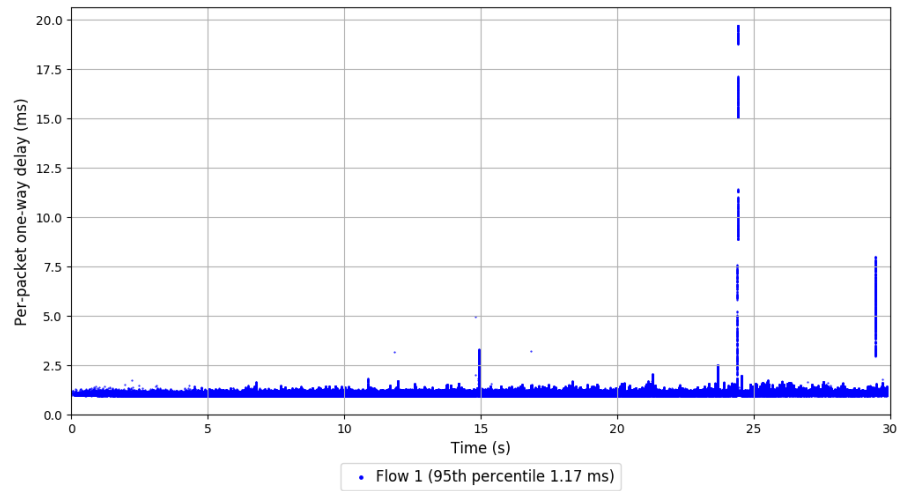
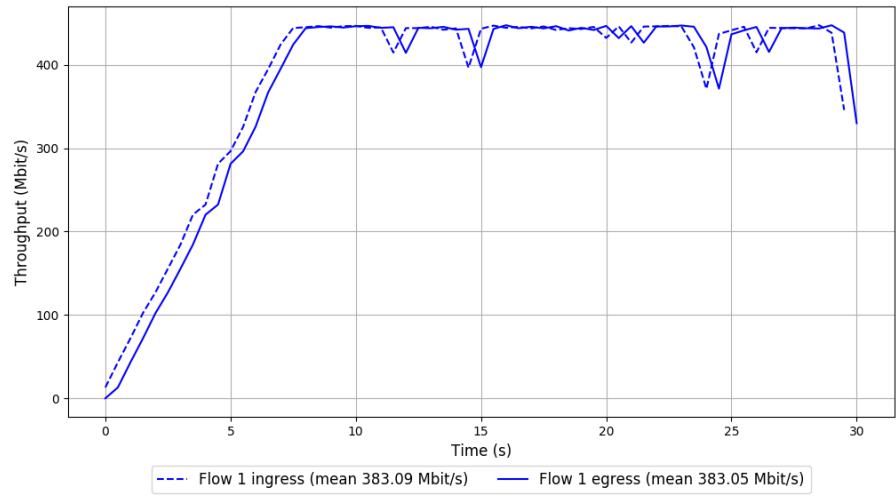


Run 3: Statistics of LEDBAT

Start at: 2018-05-22 10:50:20
End at: 2018-05-22 10:50:50
Local clock offset: 0.262 ms
Remote clock offset: -0.574 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 383.05 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 383.05 Mbit/s
95th percentile per-packet one-way delay: 1.167 ms
Loss rate: 0.07%

Run 3: Report of LEDBAT — Data Link

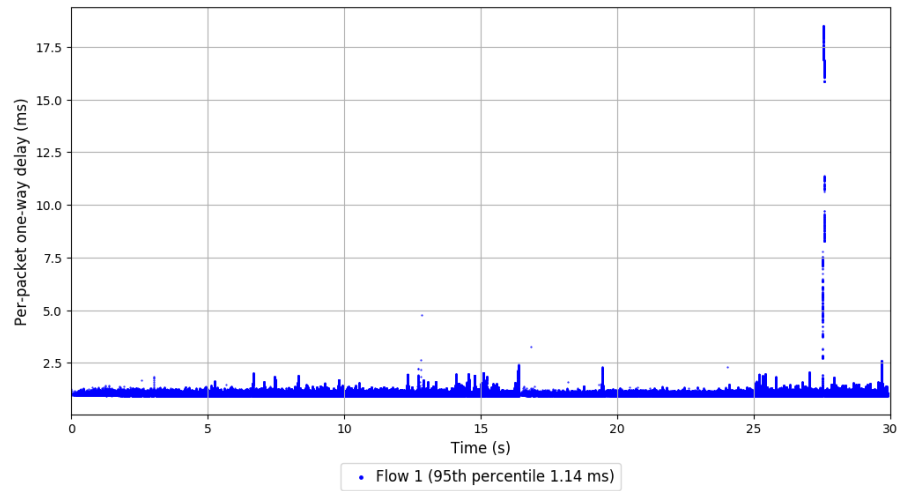
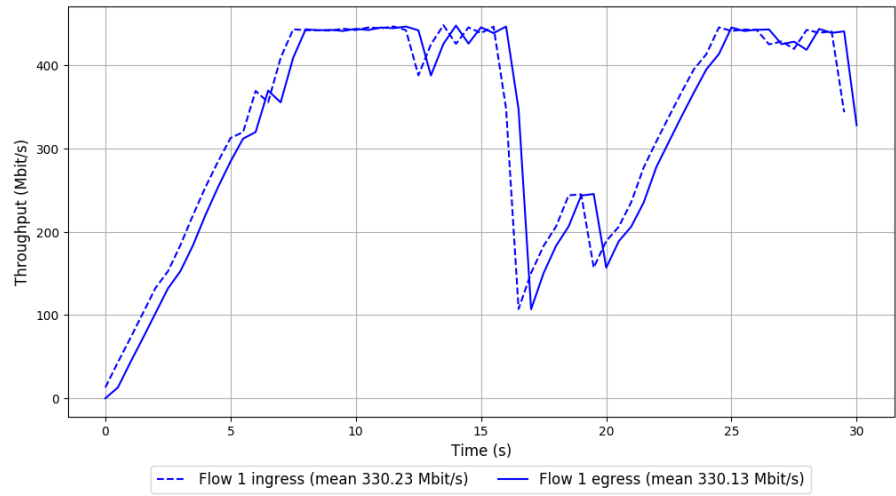


Run 4: Statistics of LEDBAT

Start at: 2018-05-22 11:14:31
End at: 2018-05-22 11:15:01
Local clock offset: 0.105 ms
Remote clock offset: -0.308 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 330.13 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 330.13 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.09%

Run 4: Report of LEDBAT — Data Link

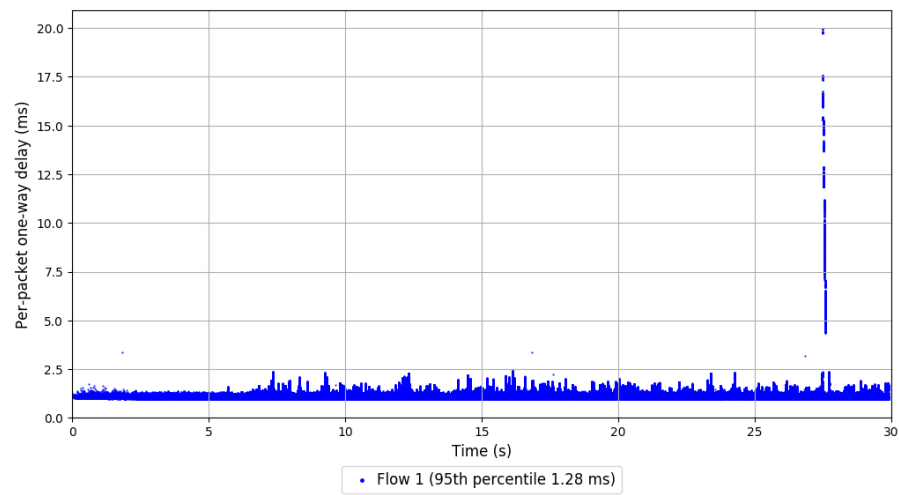
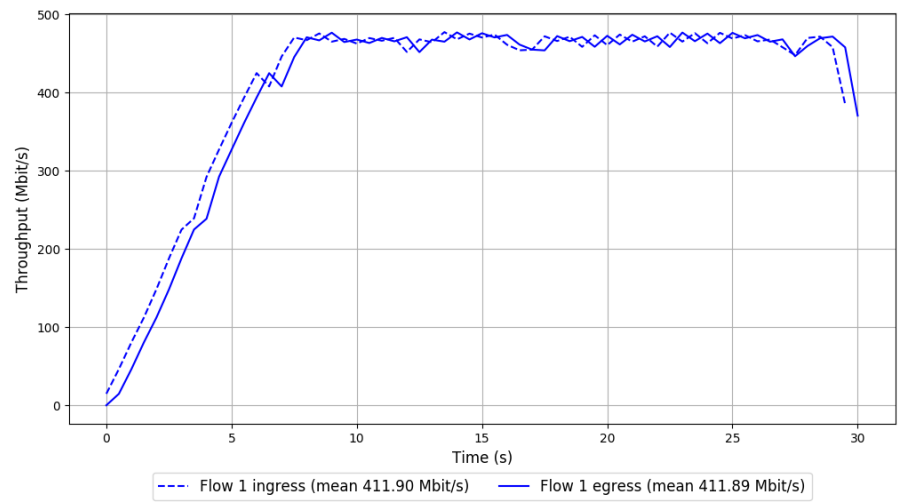


Run 5: Statistics of LEDBAT

Start at: 2018-05-22 11:38:13
End at: 2018-05-22 11:38:43
Local clock offset: 0.242 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 411.89 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 411.89 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.06%

Run 5: Report of LEDBAT — Data Link

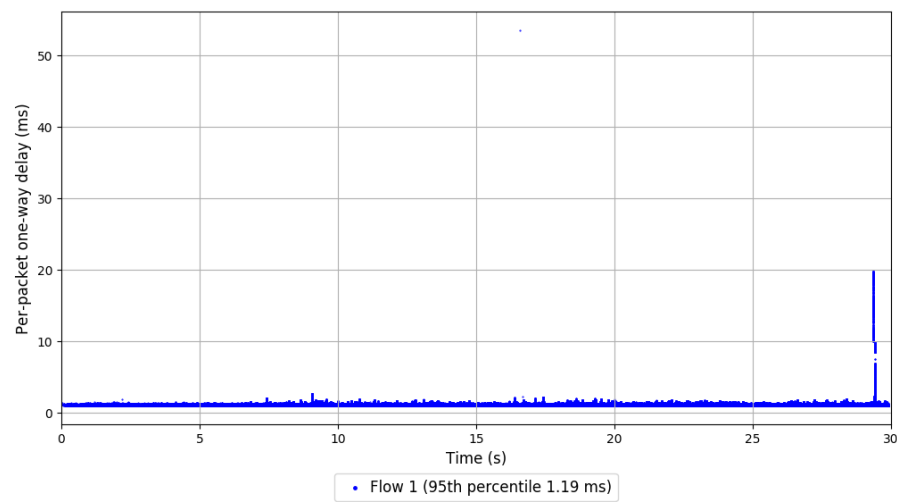
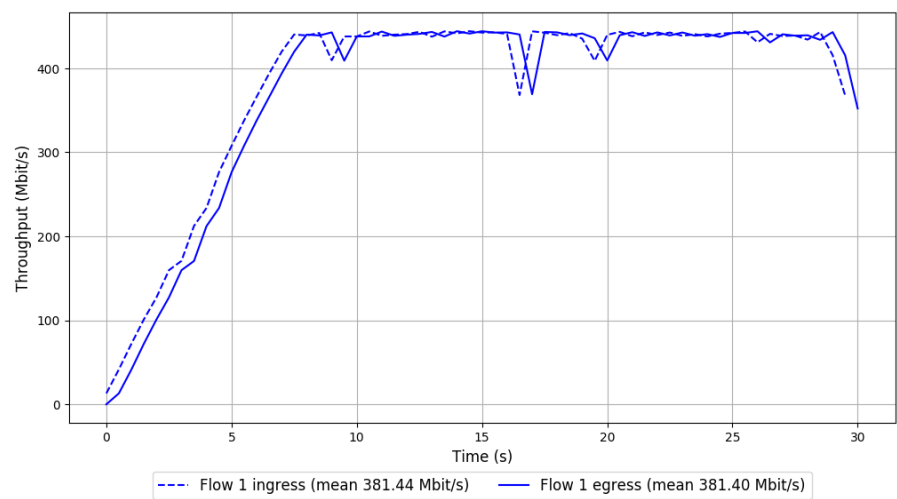


Run 6: Statistics of LEDBAT

Start at: 2018-05-22 12:02:05
End at: 2018-05-22 12:02:35
Local clock offset: 0.323 ms
Remote clock offset: -0.209 ms

Below is generated by plot.py at 2018-05-22 14:47:43
Datalink statistics
-- Total of 1 flow:
Average throughput: 381.40 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 381.40 Mbit/s
95th percentile per-packet one-way delay: 1.186 ms
Loss rate: 0.07%

Run 6: Report of LEDBAT — Data Link

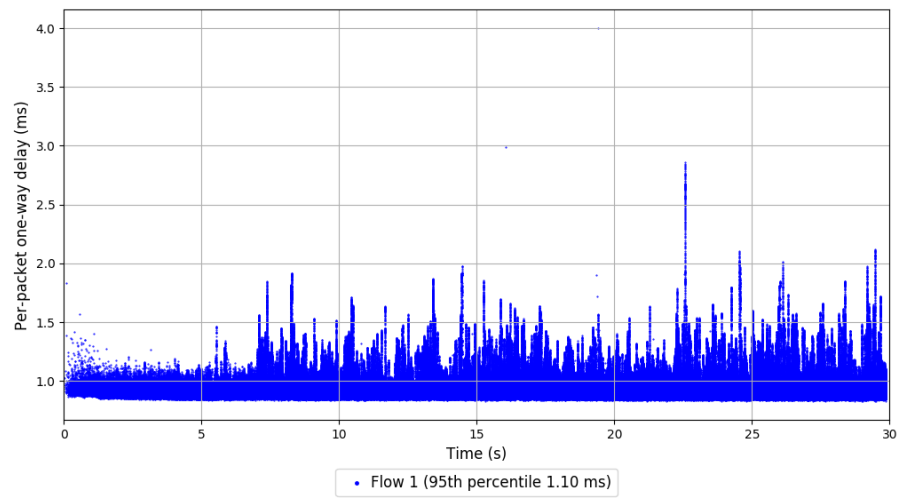
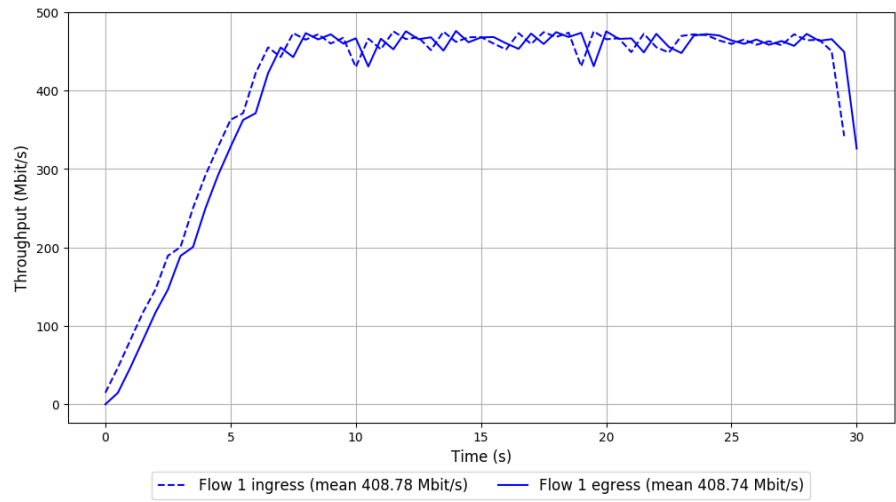


Run 7: Statistics of LEDBAT

Start at: 2018-05-22 12:25:49
End at: 2018-05-22 12:26:19
Local clock offset: 0.259 ms
Remote clock offset: -0.301 ms

Below is generated by plot.py at 2018-05-22 14:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 408.74 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 408.74 Mbit/s
95th percentile per-packet one-way delay: 1.100 ms
Loss rate: 0.07%

Run 7: Report of LEDBAT — Data Link

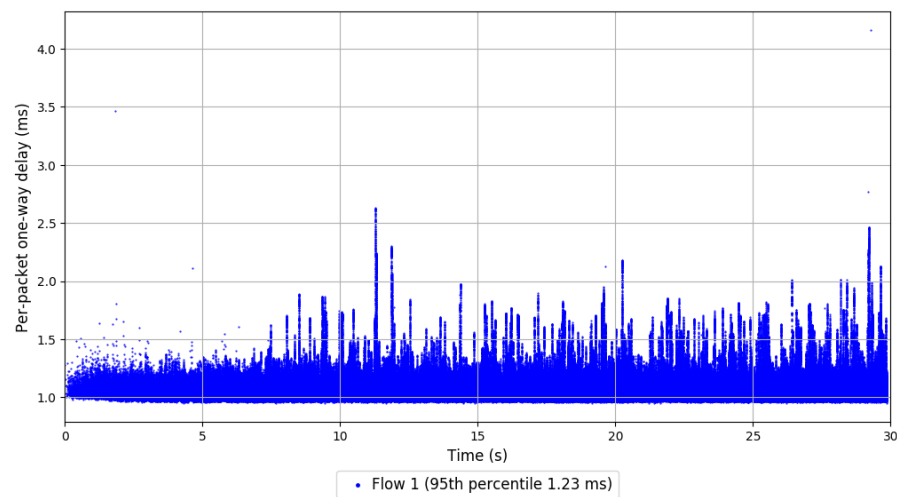
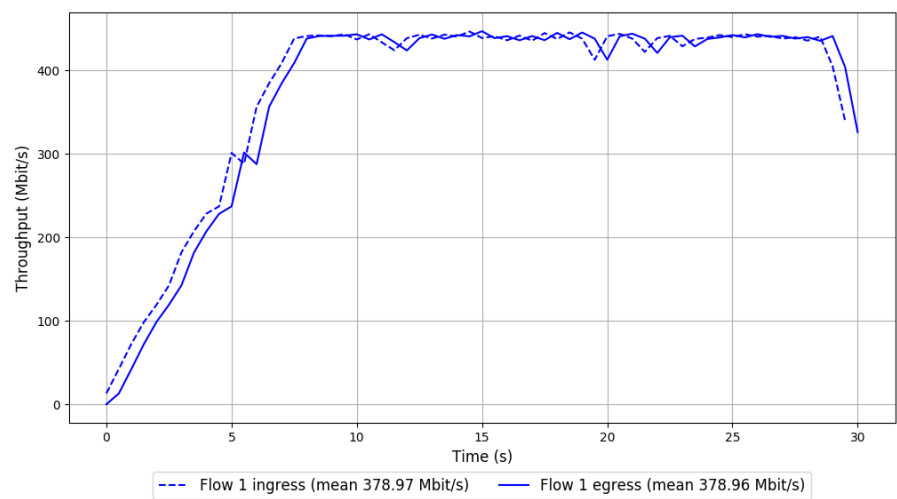


Run 8: Statistics of LEDBAT

Start at: 2018-05-22 12:49:47
End at: 2018-05-22 12:50:17
Local clock offset: 0.425 ms
Remote clock offset: -0.334 ms

Below is generated by plot.py at 2018-05-22 14:49:30
Datalink statistics
-- Total of 1 flow:
Average throughput: 378.96 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 378.96 Mbit/s
95th percentile per-packet one-way delay: 1.228 ms
Loss rate: 0.07%

Run 8: Report of LEDBAT — Data Link

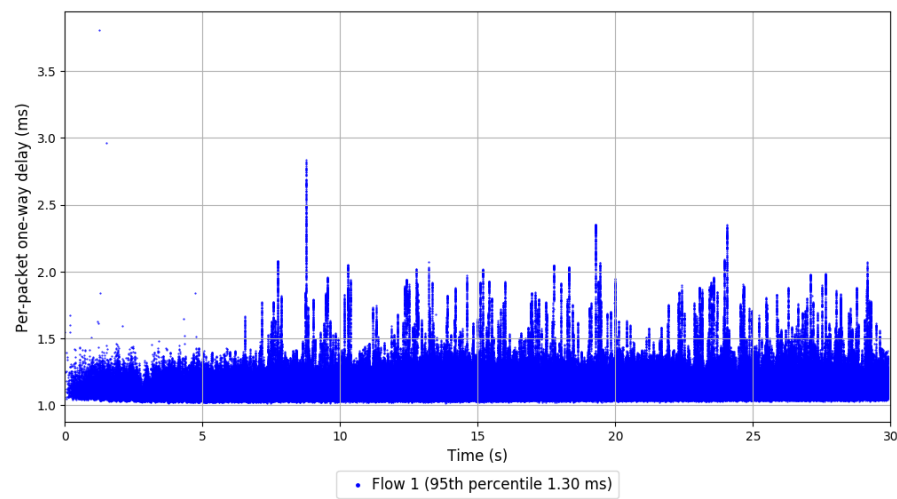
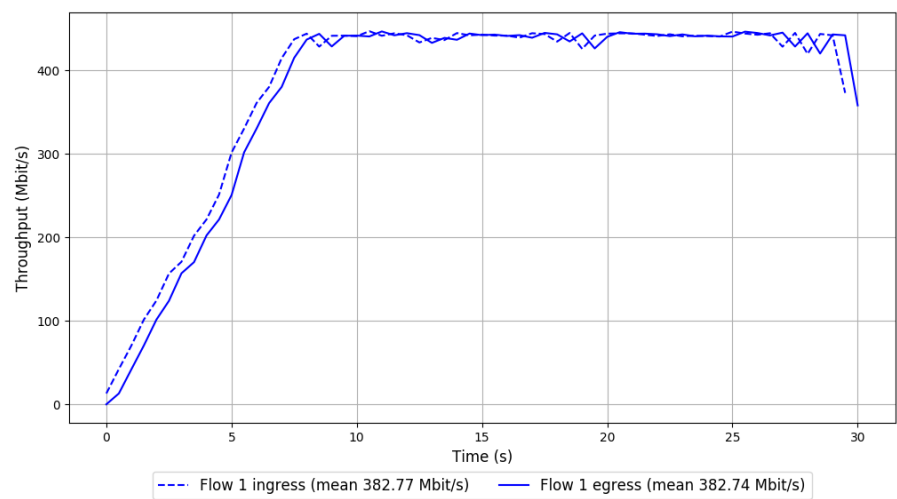


Run 9: Statistics of LEDBAT

Start at: 2018-05-22 13:13:26
End at: 2018-05-22 13:13:56
Local clock offset: 0.468 ms
Remote clock offset: -0.305 ms

Below is generated by plot.py at 2018-05-22 14:49:37
Datalink statistics
-- Total of 1 flow:
Average throughput: 382.74 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 382.74 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.07%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-22 13:37:23

End at: 2018-05-22 13:37:53

Local clock offset: 0.43 ms

Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-05-22 14:49:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 381.35 Mbit/s

95th percentile per-packet one-way delay: 1.319 ms

Loss rate: 0.08%

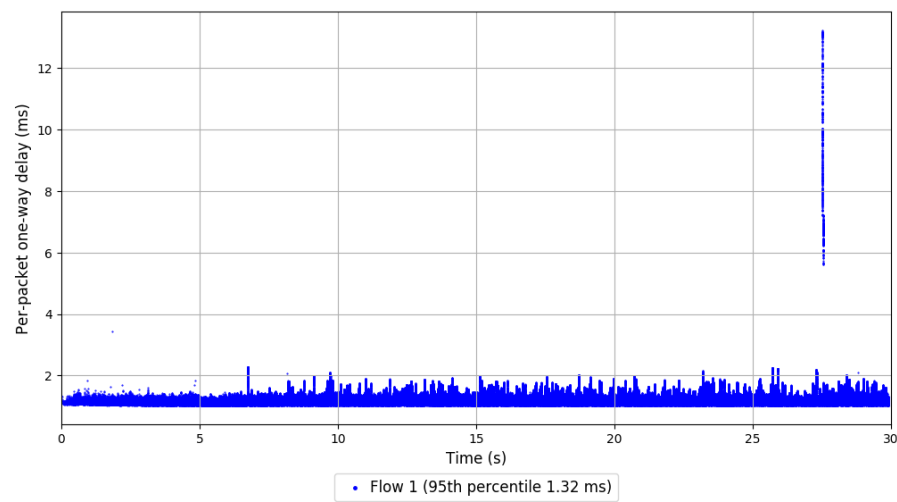
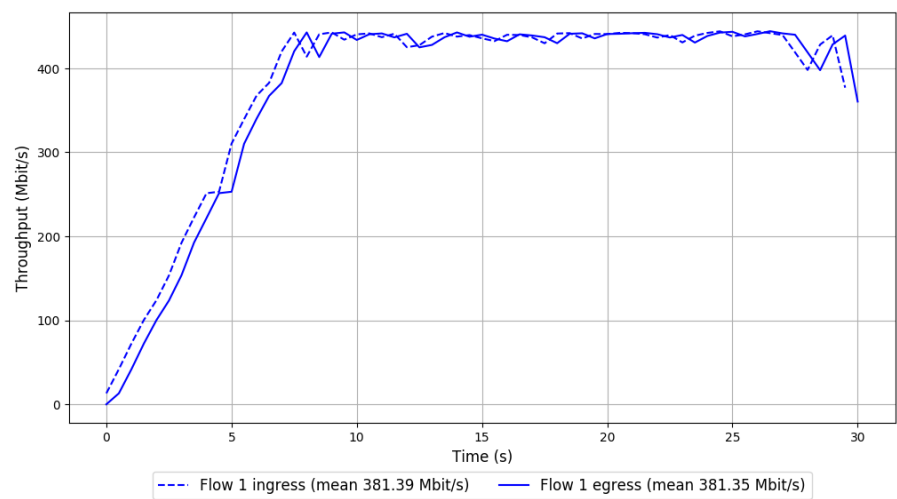
-- Flow 1:

Average throughput: 381.35 Mbit/s

95th percentile per-packet one-way delay: 1.319 ms

Loss rate: 0.08%

Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-22 09:53:26

End at: 2018-05-22 09:53:56

Local clock offset: 0.402 ms

Remote clock offset: 2.708 ms

Below is generated by plot.py at 2018-05-22 14:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 908.03 Mbit/s

95th percentile per-packet one-way delay: 2.911 ms

Loss rate: 0.11%

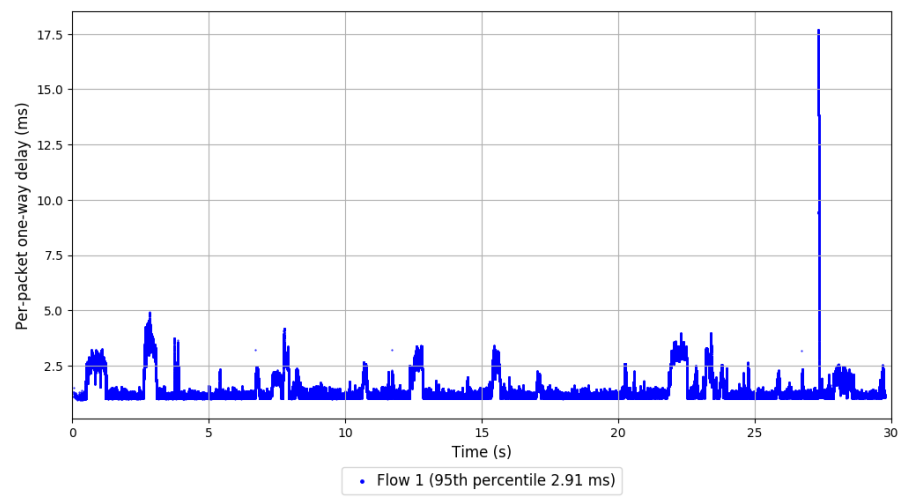
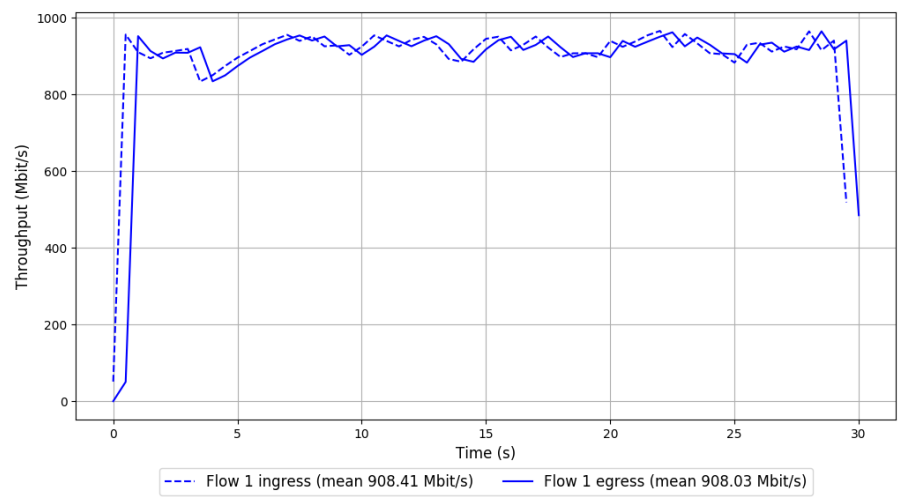
-- Flow 1:

Average throughput: 908.03 Mbit/s

95th percentile per-packet one-way delay: 2.911 ms

Loss rate: 0.11%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-22 10:17:30

End at: 2018-05-22 10:18:00

Local clock offset: 0.196 ms

Remote clock offset: 2.88 ms

Below is generated by plot.py at 2018-05-22 14:57:48

Datalink statistics

-- Total of 1 flow:

Average throughput: 803.70 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.10%

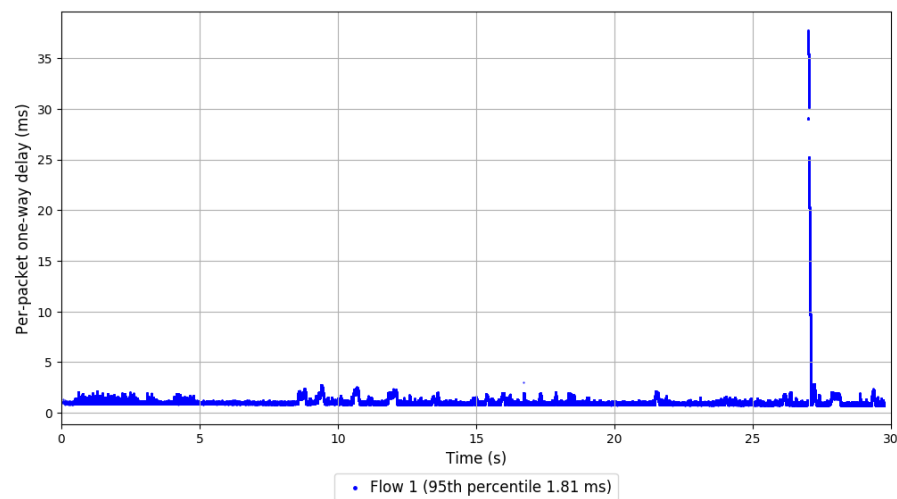
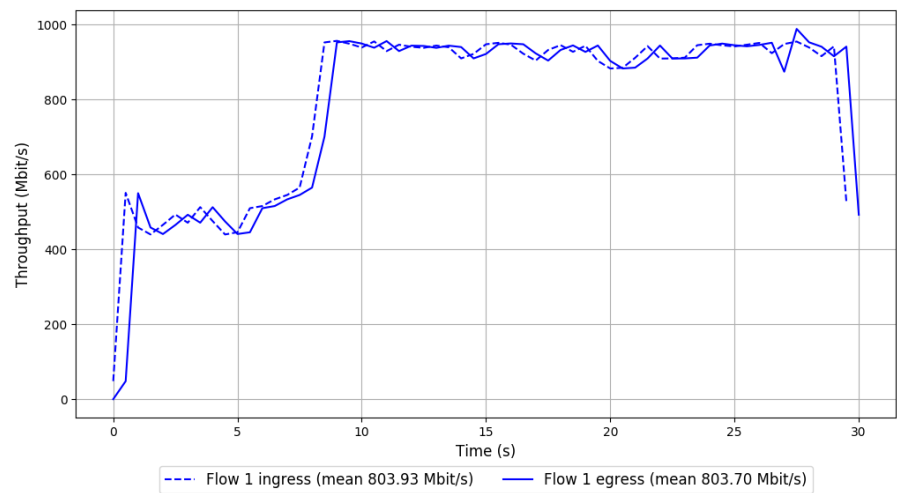
-- Flow 1:

Average throughput: 803.70 Mbit/s

95th percentile per-packet one-way delay: 1.813 ms

Loss rate: 0.10%

Run 2: Report of PCC-Allegro — Data Link

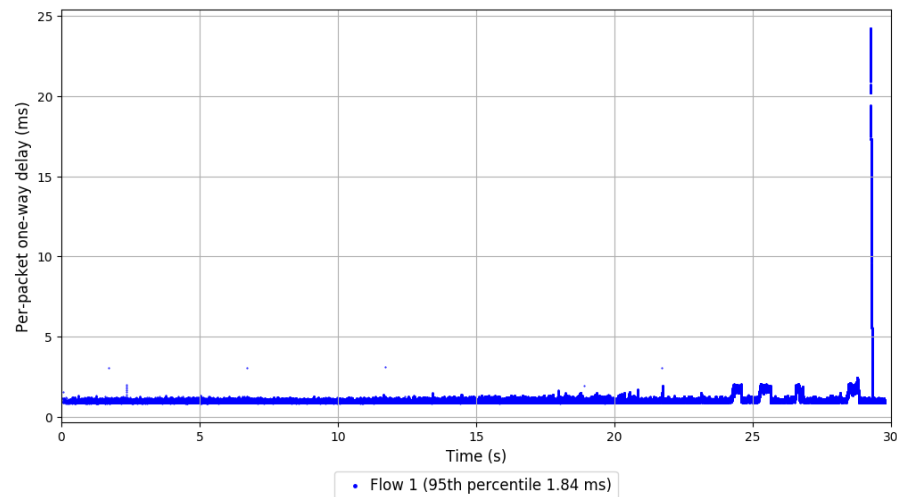
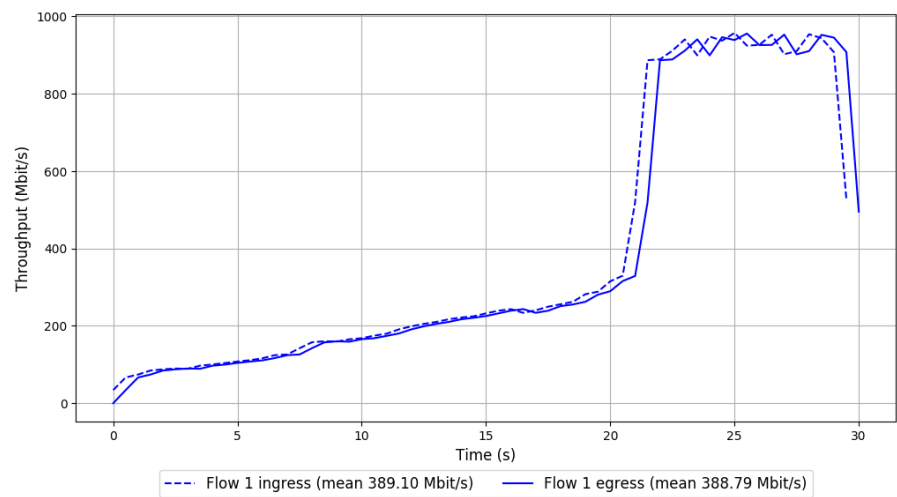


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-22 10:41:40
End at: 2018-05-22 10:42:10
Local clock offset: 0.255 ms
Remote clock offset: -0.364 ms

Below is generated by plot.py at 2018-05-22 14:57:48
Datalink statistics
-- Total of 1 flow:
Average throughput: 388.79 Mbit/s
95th percentile per-packet one-way delay: 1.837 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 388.79 Mbit/s
95th percentile per-packet one-way delay: 1.837 ms
Loss rate: 0.15%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-22 11:05:39

End at: 2018-05-22 11:06:09

Local clock offset: 0.112 ms

Remote clock offset: -0.243 ms

Below is generated by plot.py at 2018-05-22 14:58:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 831.82 Mbit/s

95th percentile per-packet one-way delay: 1.791 ms

Loss rate: 0.08%

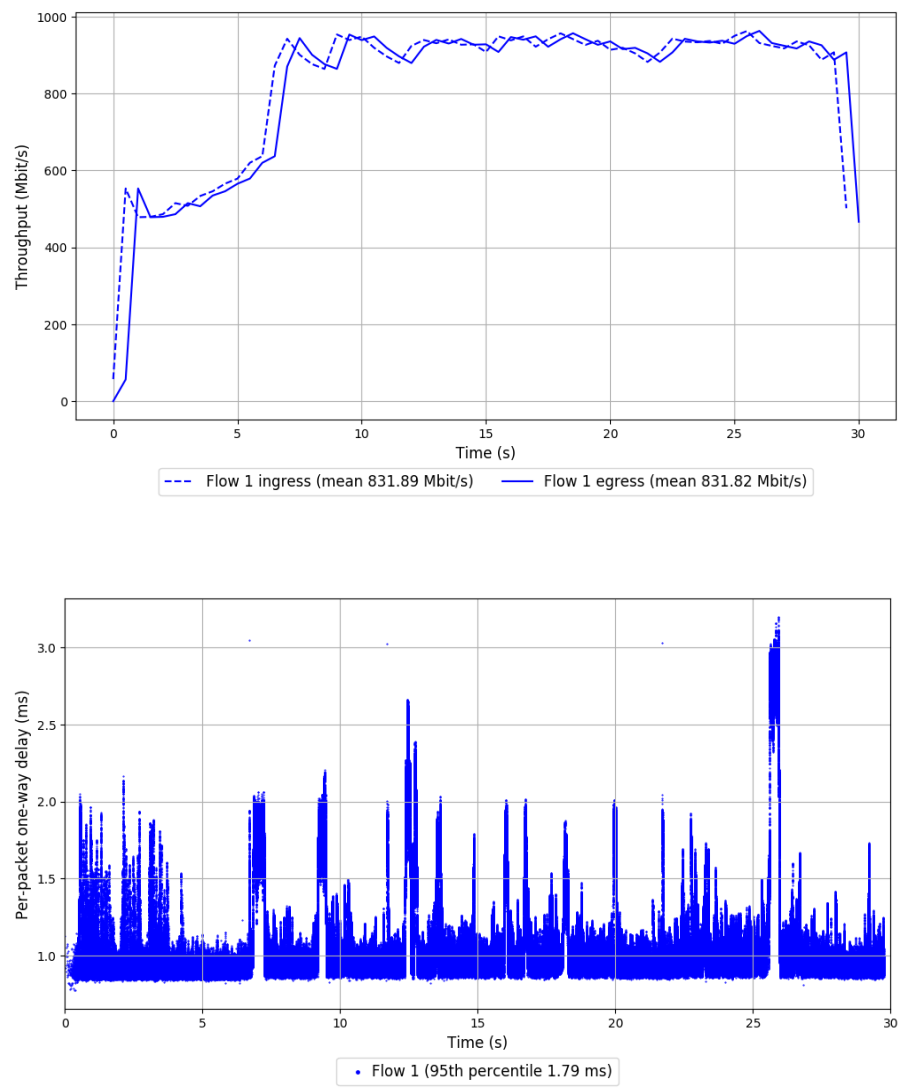
-- Flow 1:

Average throughput: 831.82 Mbit/s

95th percentile per-packet one-way delay: 1.791 ms

Loss rate: 0.08%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-22 11:29:32

End at: 2018-05-22 11:30:02

Local clock offset: 0.019 ms

Remote clock offset: -0.28 ms

Below is generated by plot.py at 2018-05-22 14:59:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 904.91 Mbit/s

95th percentile per-packet one-way delay: 2.041 ms

Loss rate: 0.07%

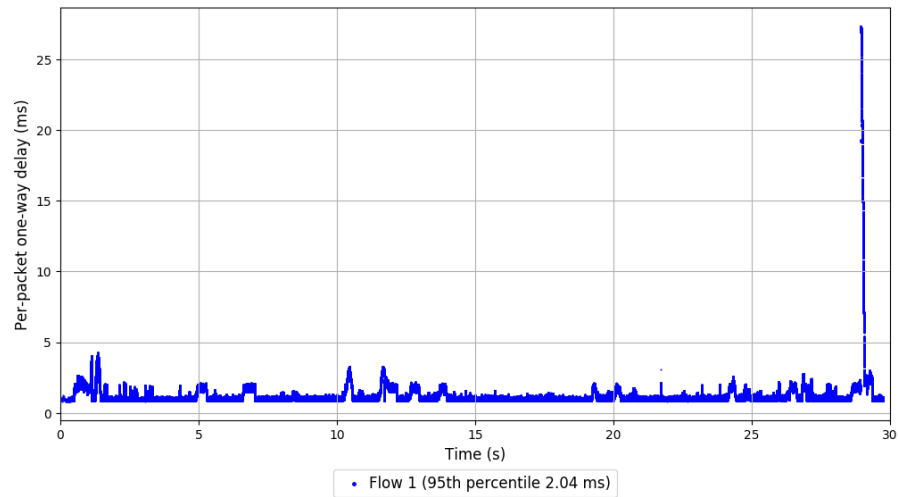
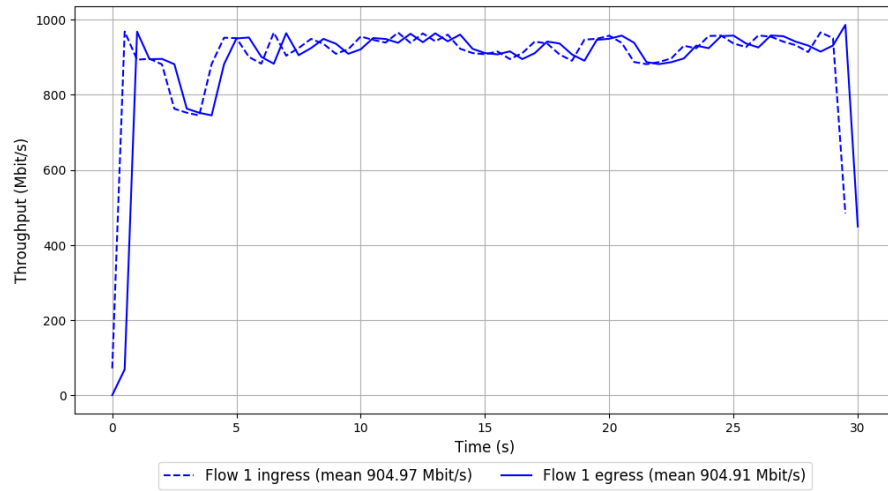
-- Flow 1:

Average throughput: 904.91 Mbit/s

95th percentile per-packet one-way delay: 2.041 ms

Loss rate: 0.07%

Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-22 11:53:17

End at: 2018-05-22 11:53:47

Local clock offset: 0.307 ms

Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-05-22 14:59:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 791.17 Mbit/s

95th percentile per-packet one-way delay: 1.925 ms

Loss rate: 0.09%

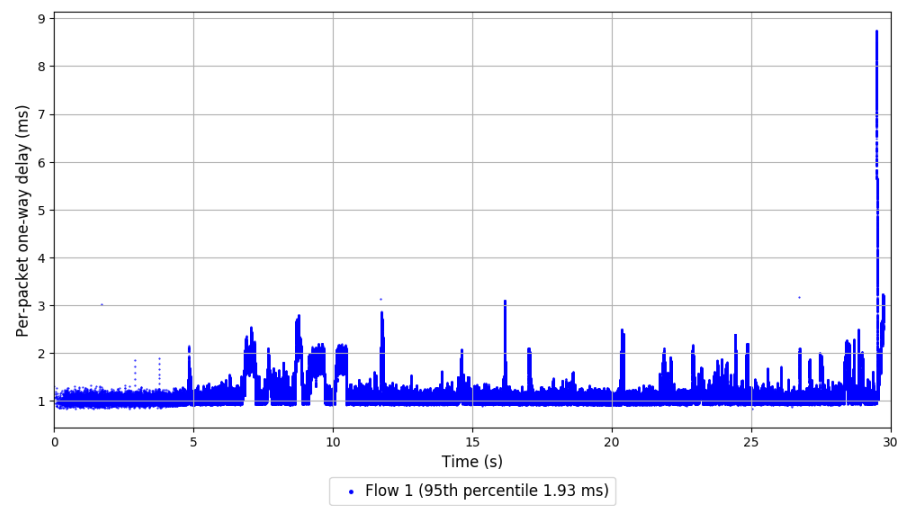
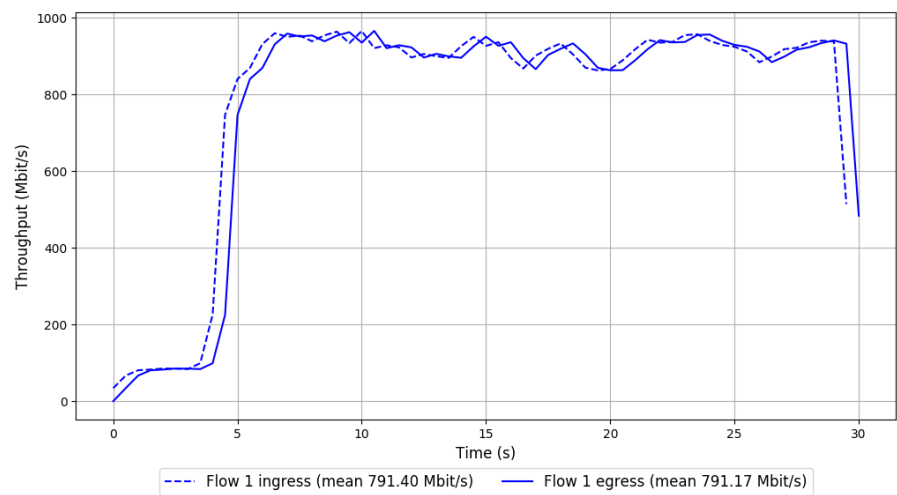
-- Flow 1:

Average throughput: 791.17 Mbit/s

95th percentile per-packet one-way delay: 1.925 ms

Loss rate: 0.09%

Run 6: Report of PCC-Allegro — Data Link

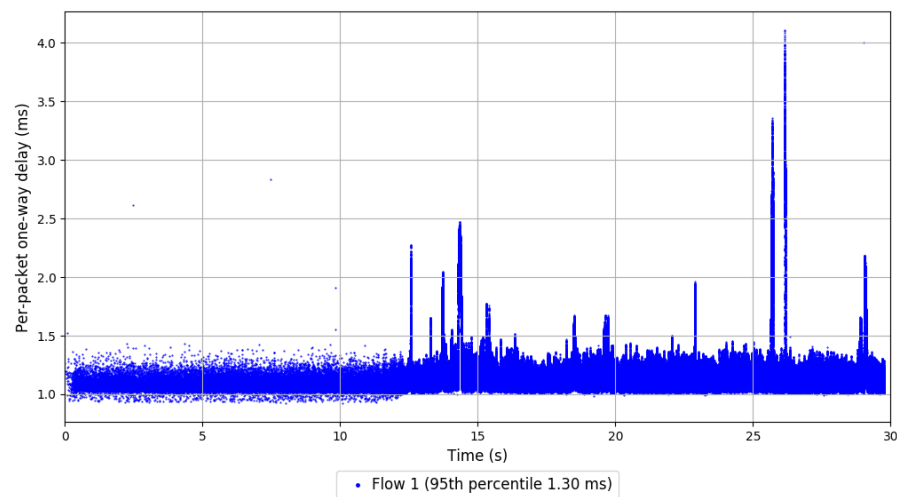
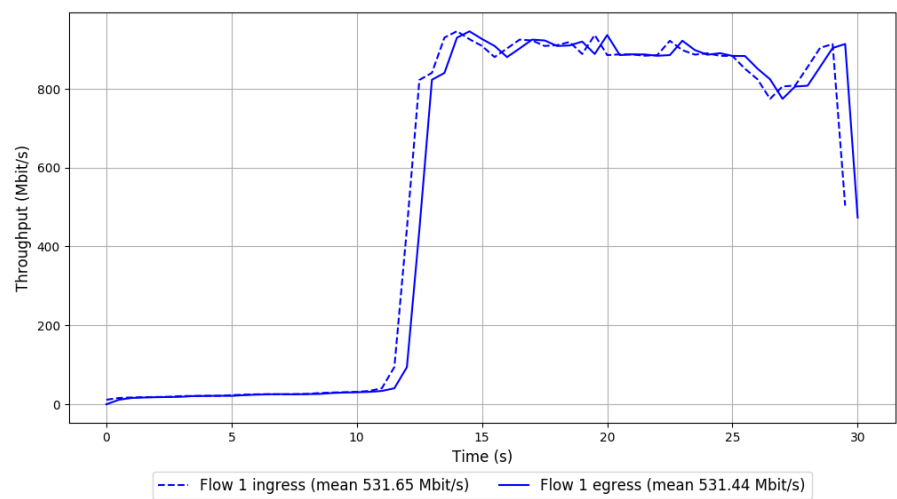


Run 7: Statistics of PCC-Allegro

Start at: 2018-05-22 12:17:11
End at: 2018-05-22 12:17:41
Local clock offset: 0.359 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-05-22 14:59:55
Datalink statistics
-- Total of 1 flow:
Average throughput: 531.44 Mbit/s
95th percentile per-packet one-way delay: 1.304 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 531.44 Mbit/s
95th percentile per-packet one-way delay: 1.304 ms
Loss rate: 0.10%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-22 12:41:03

End at: 2018-05-22 12:41:33

Local clock offset: 0.406 ms

Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-05-22 14:59:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 807.34 Mbit/s

95th percentile per-packet one-way delay: 2.463 ms

Loss rate: 0.08%

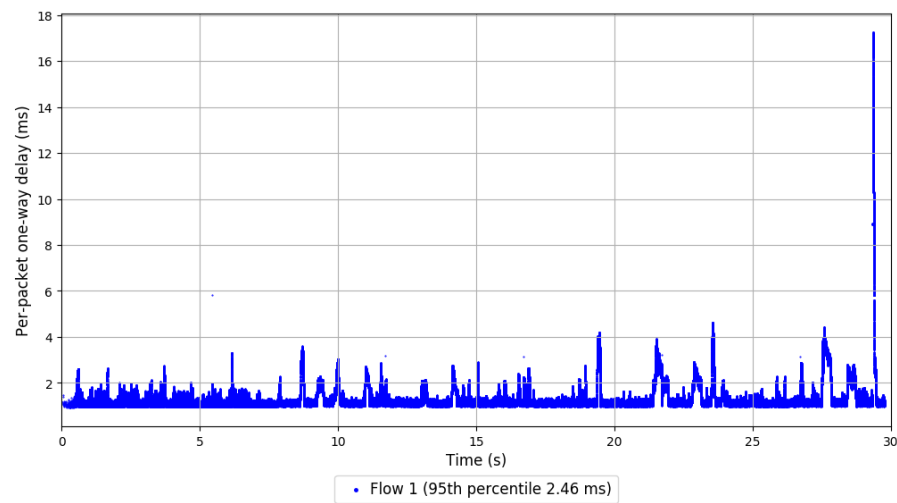
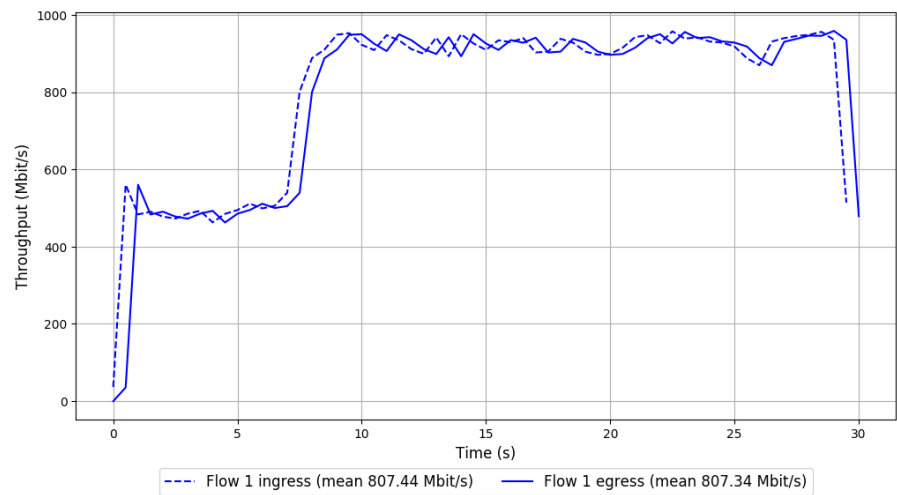
-- Flow 1:

Average throughput: 807.34 Mbit/s

95th percentile per-packet one-way delay: 2.463 ms

Loss rate: 0.08%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-22 13:04:48

End at: 2018-05-22 13:05:18

Local clock offset: 0.461 ms

Remote clock offset: -0.486 ms

Below is generated by plot.py at 2018-05-22 14:59:55

Datalink statistics

-- Total of 1 flow:

Average throughput: 382.39 Mbit/s

95th percentile per-packet one-way delay: 1.743 ms

Loss rate: 0.16%

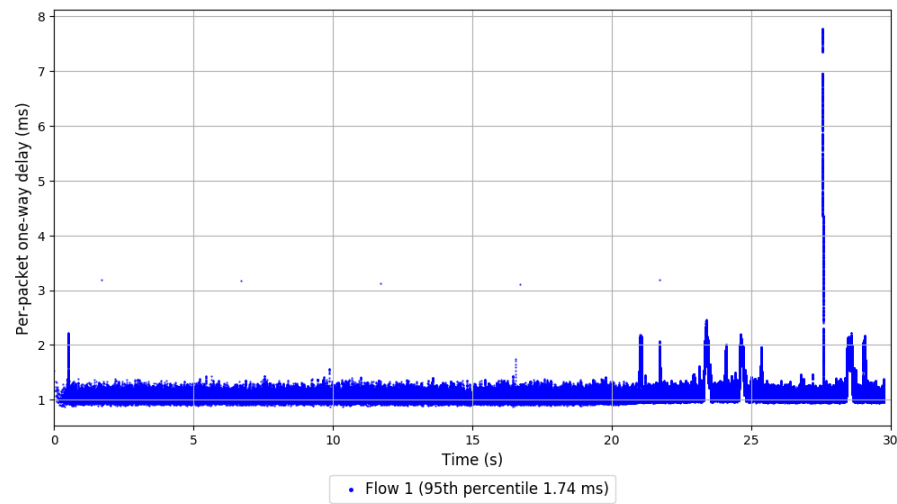
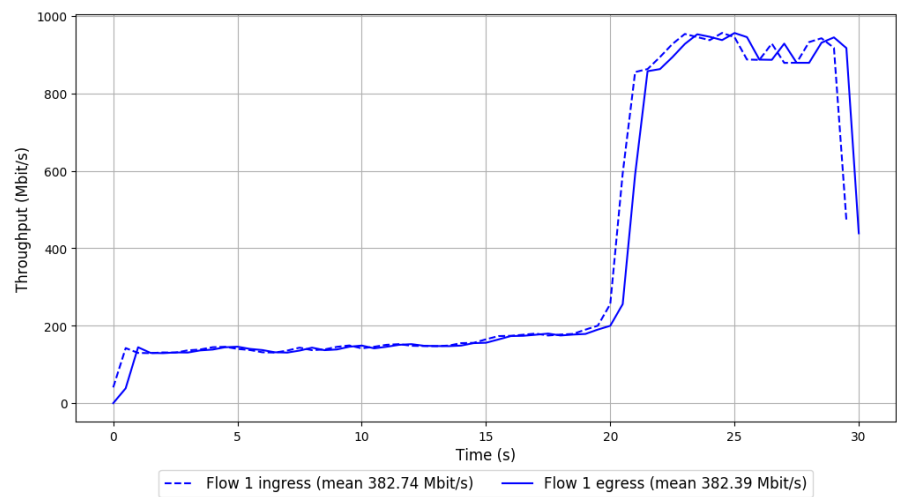
-- Flow 1:

Average throughput: 382.39 Mbit/s

95th percentile per-packet one-way delay: 1.743 ms

Loss rate: 0.16%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-22 13:28:35

End at: 2018-05-22 13:29:05

Local clock offset: 0.397 ms

Remote clock offset: -0.092 ms

Below is generated by plot.py at 2018-05-22 15:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 801.05 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.09%

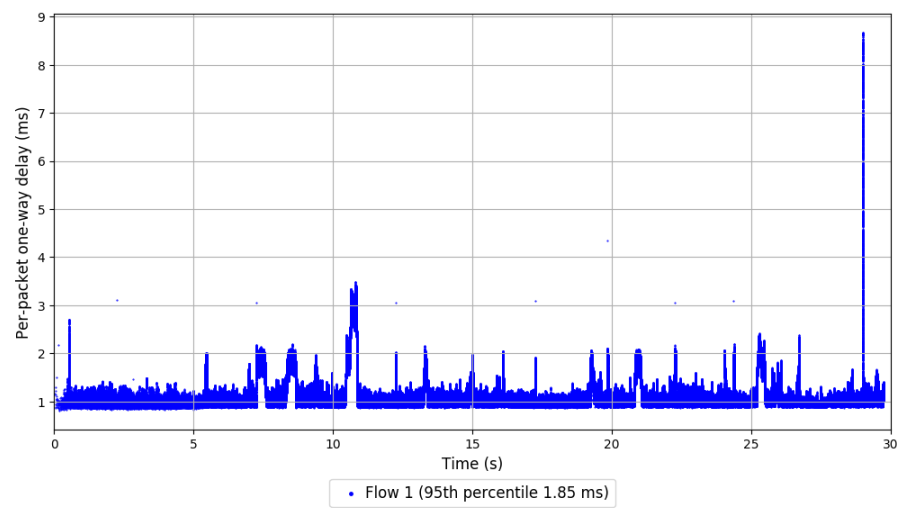
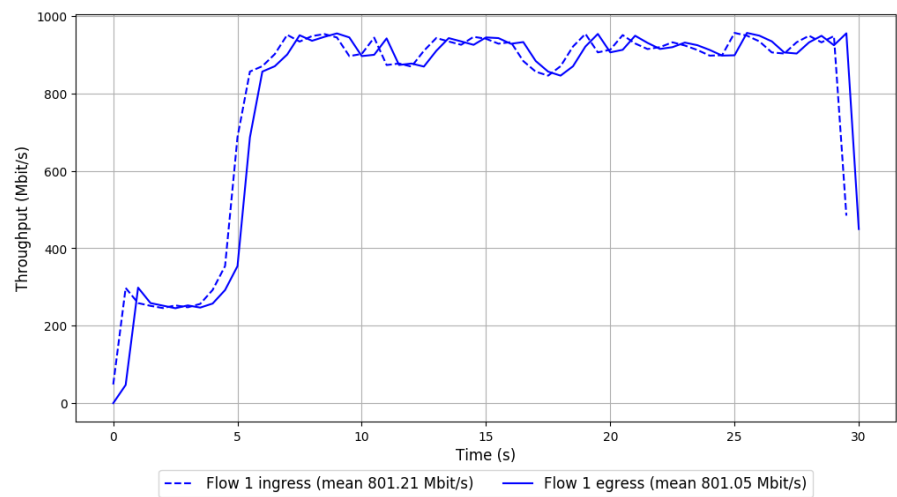
-- Flow 1:

Average throughput: 801.05 Mbit/s

95th percentile per-packet one-way delay: 1.850 ms

Loss rate: 0.09%

Run 10: Report of PCC-Allegro — Data Link

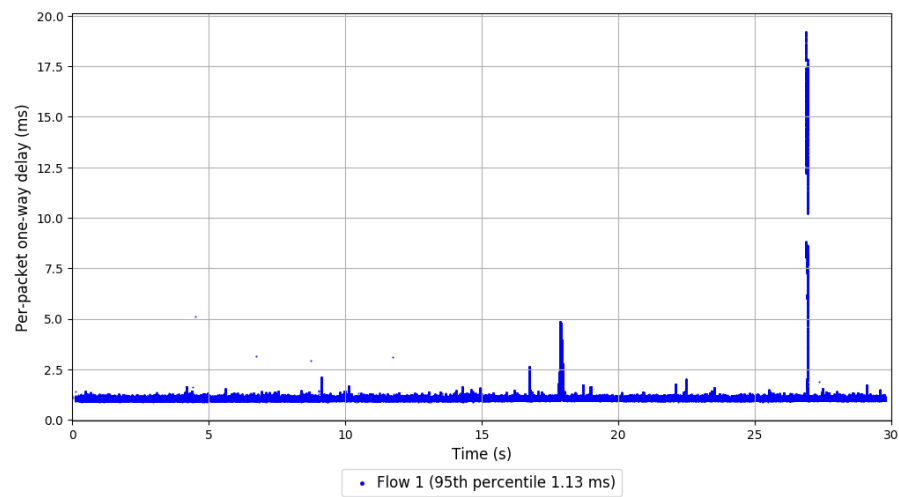
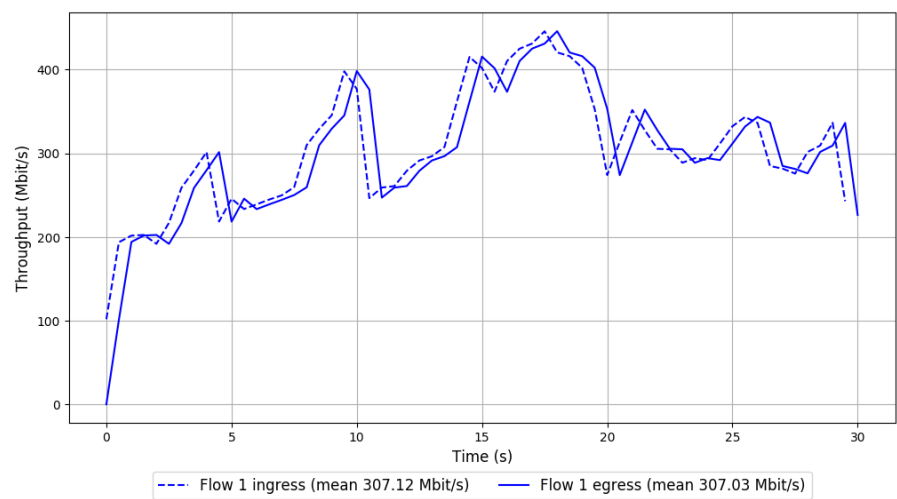


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-22 10:03:50
End at: 2018-05-22 10:04:20
Local clock offset: 0.273 ms
Remote clock offset: 3.339 ms

# Below is generated by plot.py at 2018-05-22 15:05:42
# Datalink statistics
-- Total of 1 flow:
Average throughput: 307.03 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 307.03 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.09%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-22 10:27:55

End at: 2018-05-22 10:28:25

Local clock offset: 0.091 ms

Remote clock offset: 0.525 ms

Below is generated by plot.py at 2018-05-22 15:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 330.36 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.06%

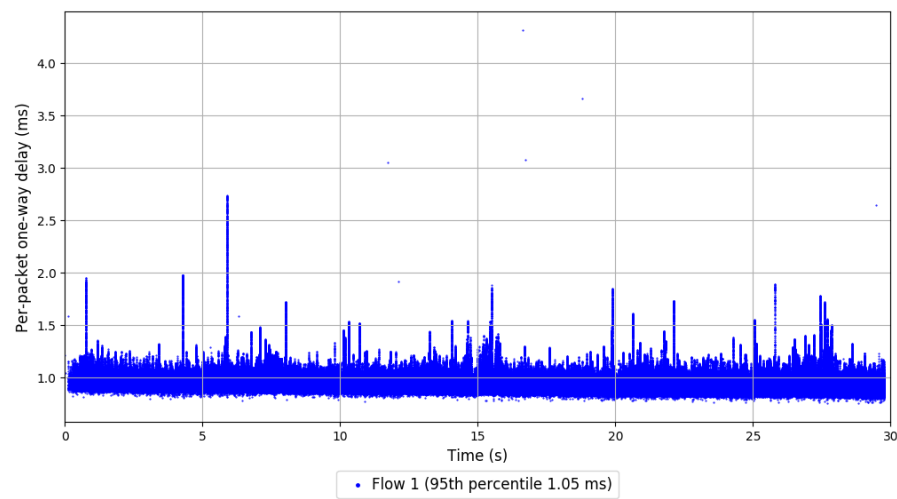
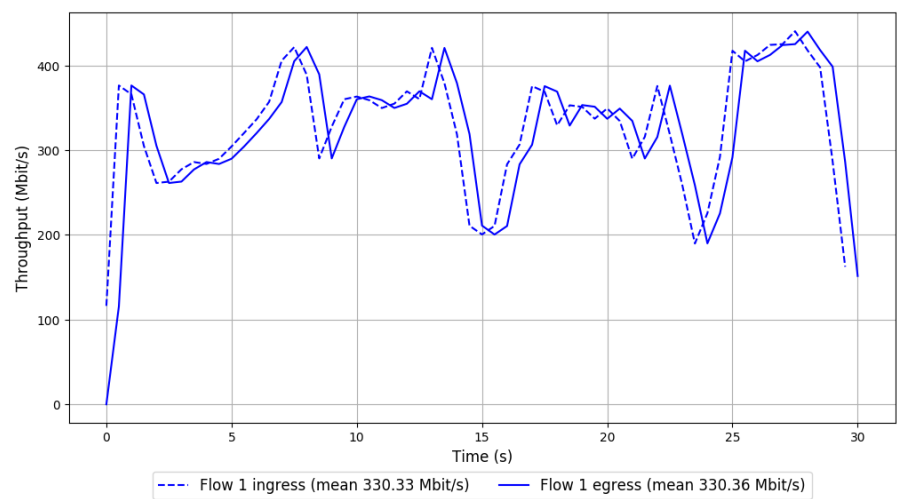
-- Flow 1:

Average throughput: 330.36 Mbit/s

95th percentile per-packet one-way delay: 1.052 ms

Loss rate: 0.06%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-22 10:51:53

End at: 2018-05-22 10:52:23

Local clock offset: 0.364 ms

Remote clock offset: -0.513 ms

Below is generated by plot.py at 2018-05-22 15:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 317.42 Mbit/s

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

Loss rate: 0.06%

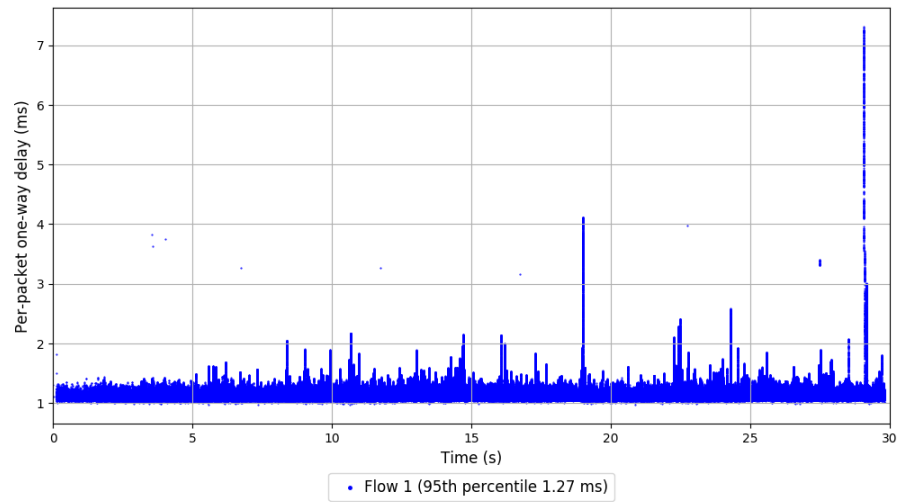
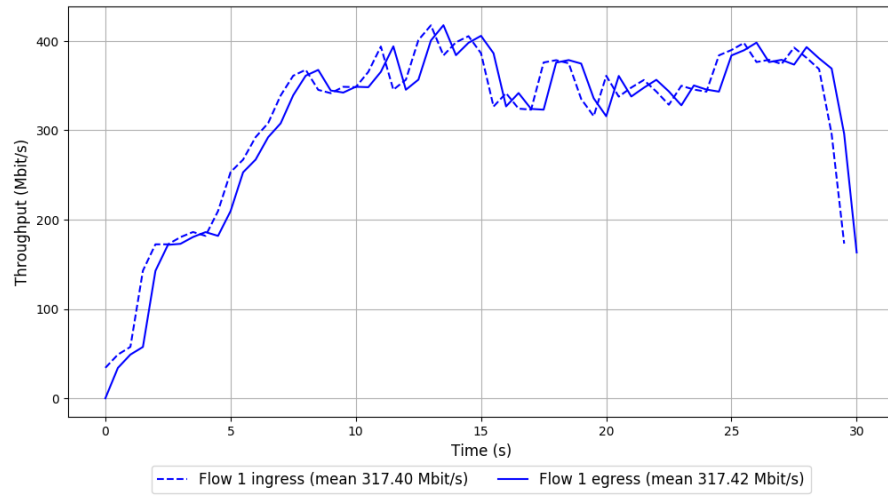
-- Flow 1:

Average throughput: 317.42 Mbit/s

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

Loss rate: 0.06%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-22 11:16:02

End at: 2018-05-22 11:16:32

Local clock offset: 0.098 ms

Remote clock offset: -0.364 ms

Below is generated by plot.py at 2018-05-22 15:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.32 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.06%

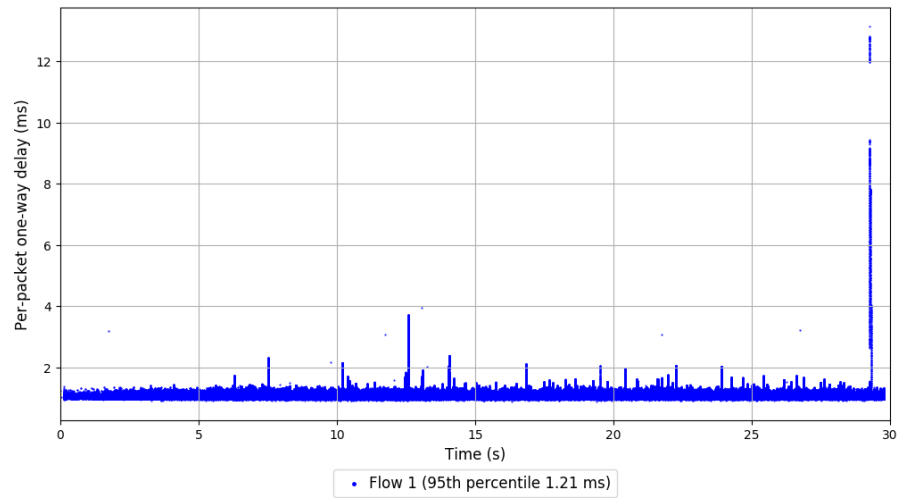
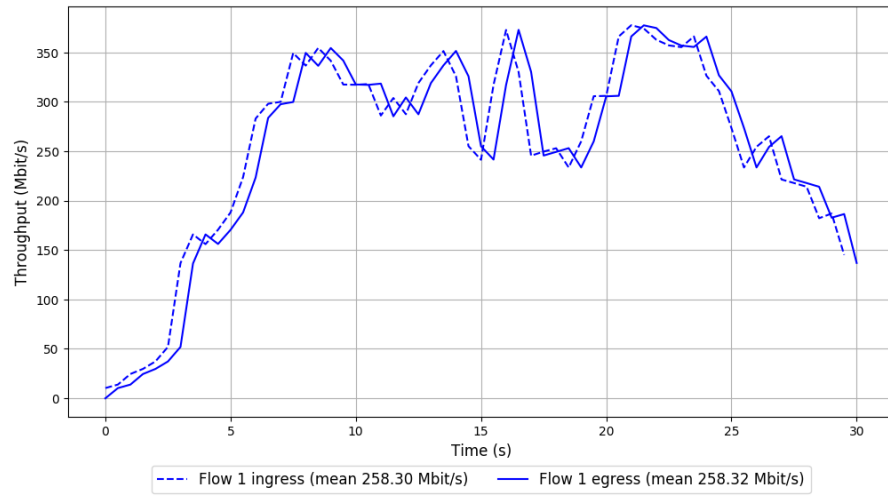
-- Flow 1:

Average throughput: 258.32 Mbit/s

95th percentile per-packet one-way delay: 1.213 ms

Loss rate: 0.06%

Run 4: Report of PCC-Expr — Data Link

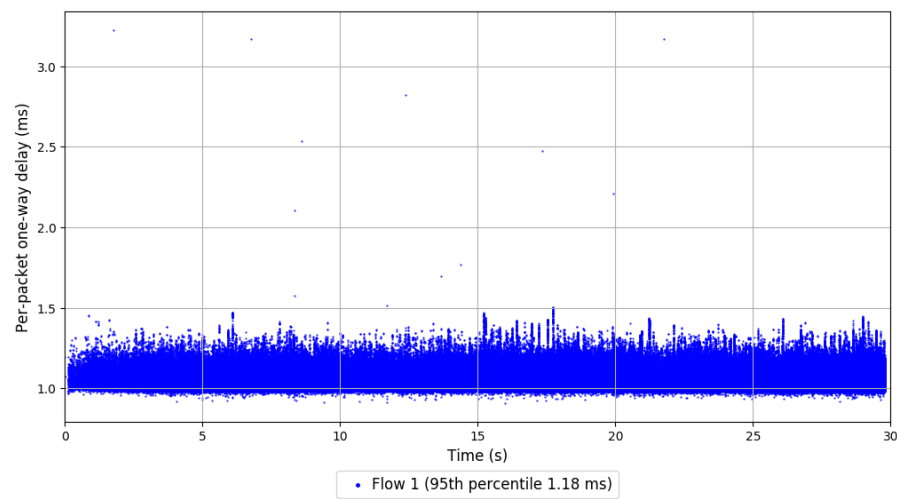
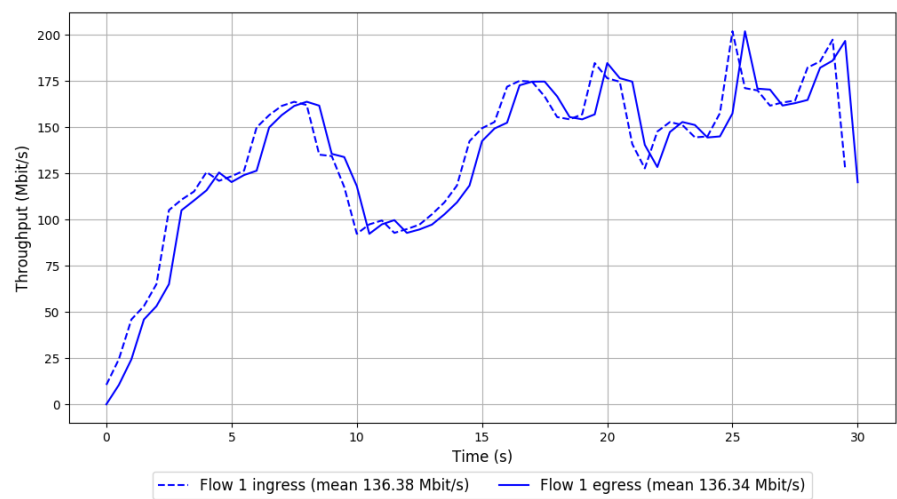


Run 5: Statistics of PCC-Expr

Start at: 2018-05-22 11:39:47
End at: 2018-05-22 11:40:17
Local clock offset: 0.268 ms
Remote clock offset: -0.287 ms

Below is generated by plot.py at 2018-05-22 15:05:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 136.34 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 136.34 Mbit/s
95th percentile per-packet one-way delay: 1.182 ms
Loss rate: 0.10%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-22 12:03:38

End at: 2018-05-22 12:04:08

Local clock offset: 0.259 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-05-22 15:05:42

Datalink statistics

-- Total of 1 flow:

Average throughput: 251.55 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.08%

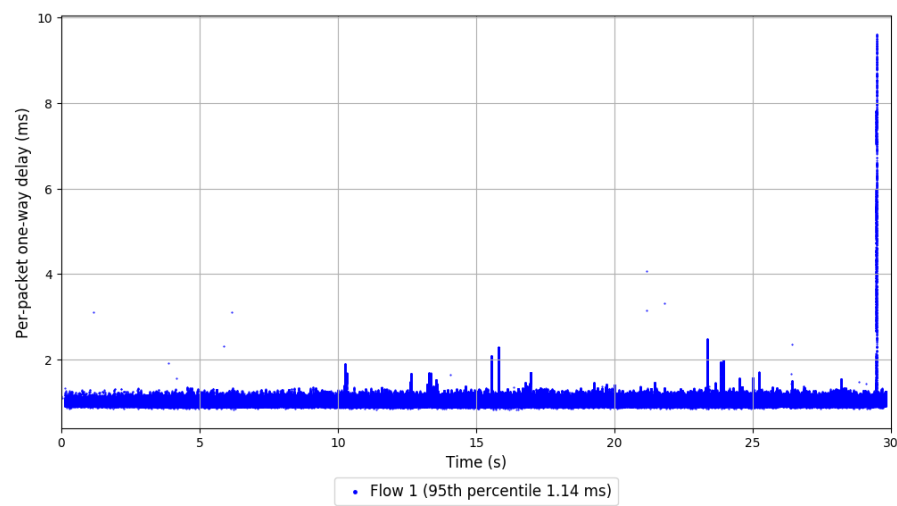
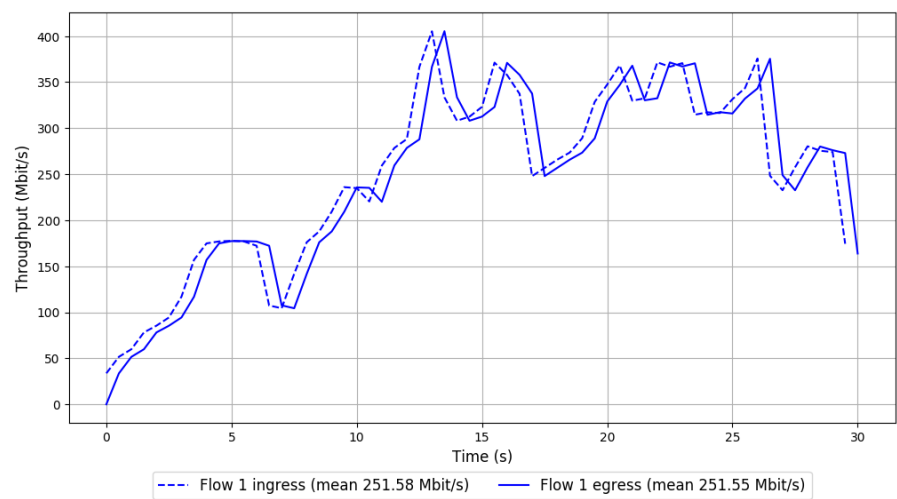
-- Flow 1:

Average throughput: 251.55 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.08%

Run 6: Report of PCC-Expr — Data Link

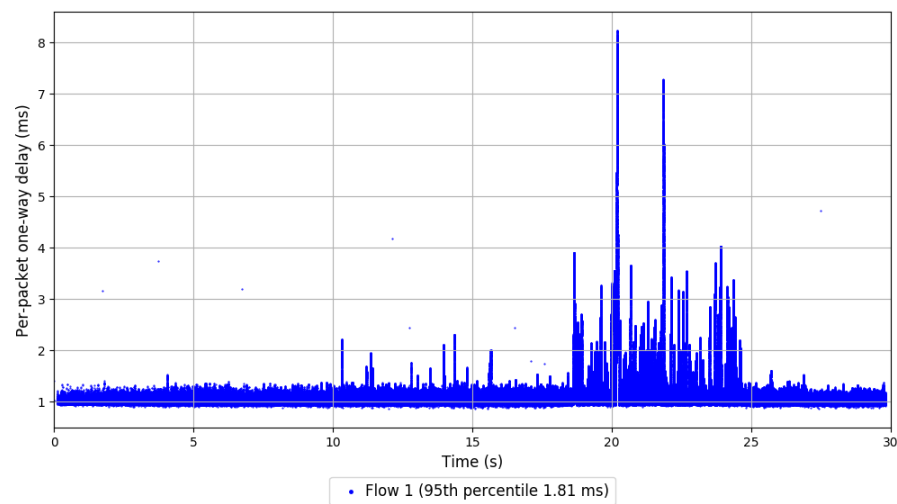
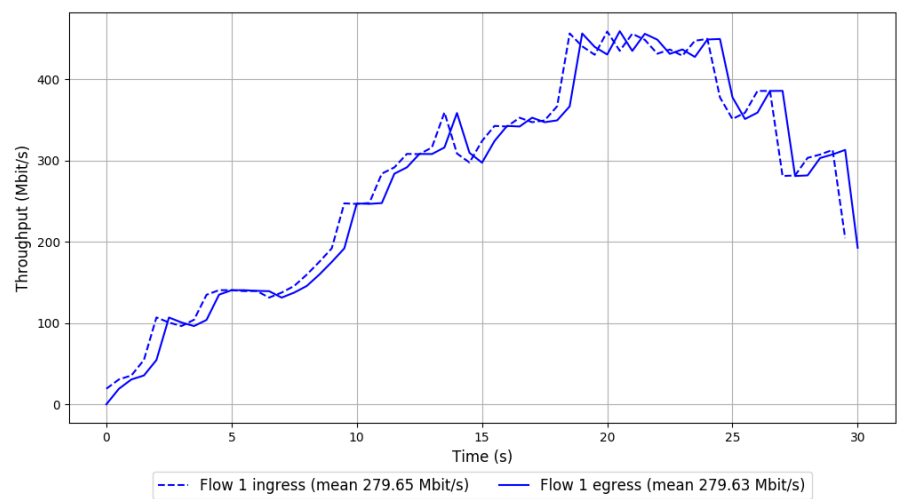


Run 7: Statistics of PCC-Expr

Start at: 2018-05-22 12:27:23
End at: 2018-05-22 12:27:53
Local clock offset: 0.35 ms
Remote clock offset: -0.304 ms

Below is generated by plot.py at 2018-05-22 15:06:42
Datalink statistics
-- Total of 1 flow:
Average throughput: 279.63 Mbit/s
95th percentile per-packet one-way delay: 1.814 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 279.63 Mbit/s
95th percentile per-packet one-way delay: 1.814 ms
Loss rate: 0.07%

Run 7: Report of PCC-Expr — Data Link

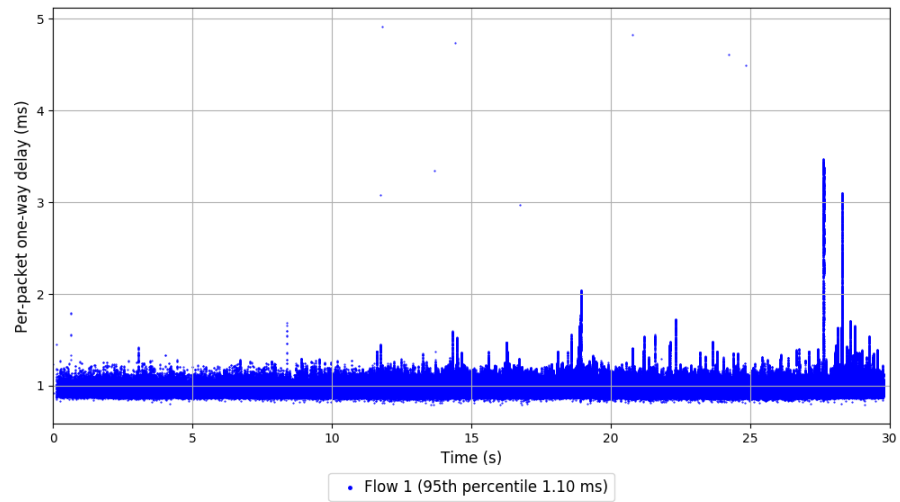
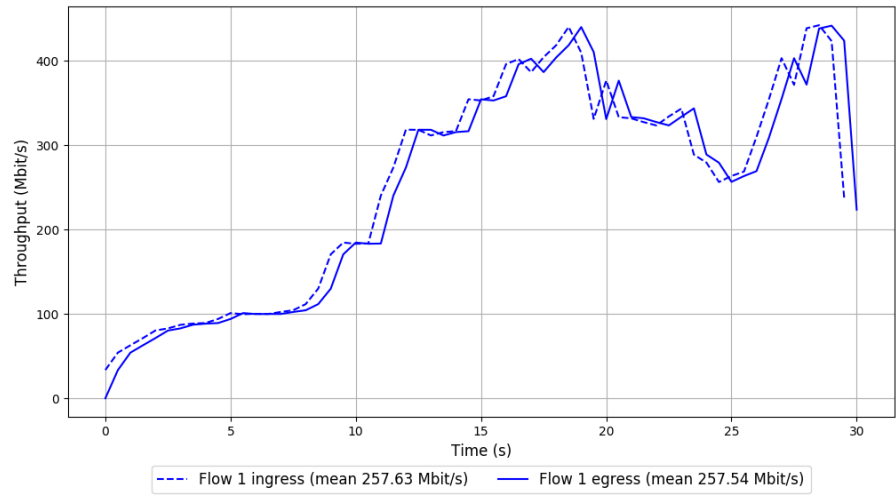


Run 8: Statistics of PCC-Expr

Start at: 2018-05-22 12:51:21
End at: 2018-05-22 12:51:51
Local clock offset: 0.321 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-05-22 15:08:14
Datalink statistics
-- Total of 1 flow:
Average throughput: 257.54 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 257.54 Mbit/s
95th percentile per-packet one-way delay: 1.099 ms
Loss rate: 0.10%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-22 13:15:00
End at: 2018-05-22 13:15:30
Local clock offset: 0.361 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-05-22 15:09:00

Datalink statistics

-- Total of 1 flow:

Average throughput: 256.20 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.06%

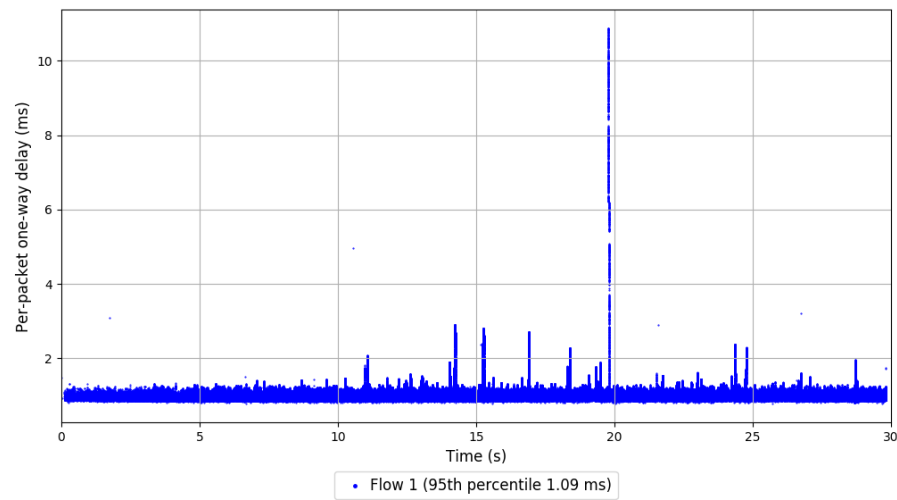
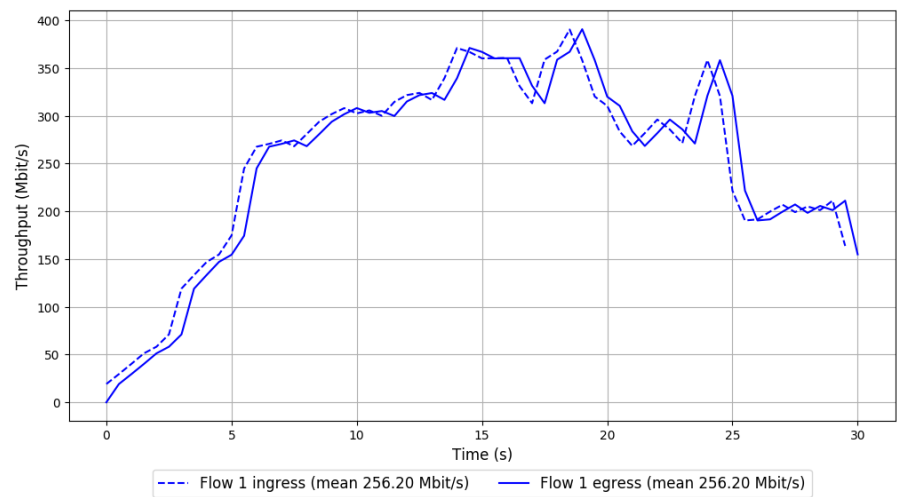
-- Flow 1:

Average throughput: 256.20 Mbit/s

95th percentile per-packet one-way delay: 1.086 ms

Loss rate: 0.06%

Run 9: Report of PCC-Expr — Data Link

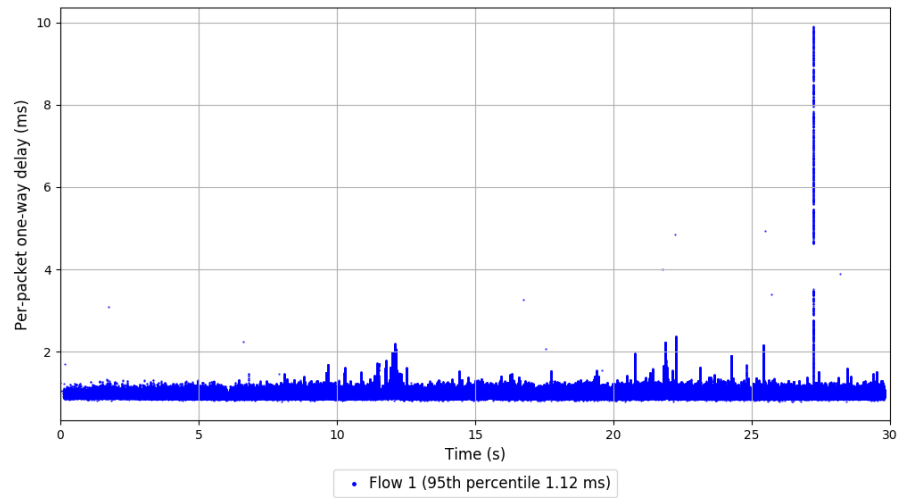
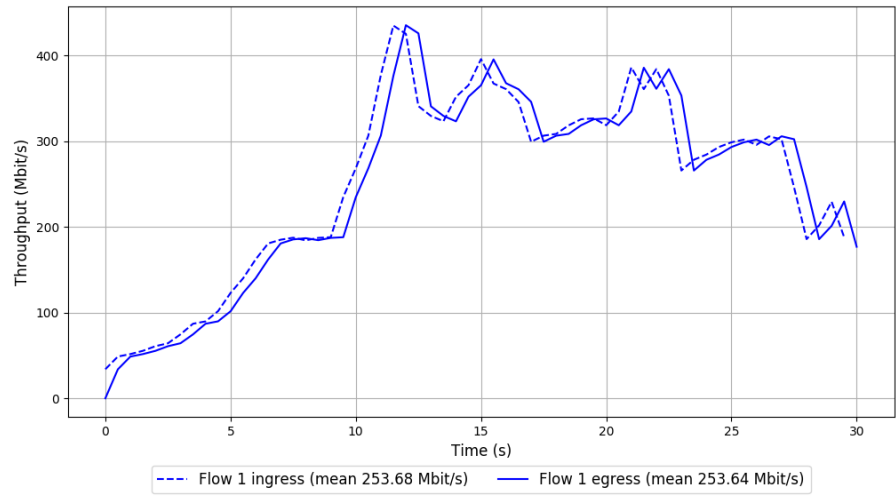


Run 10: Statistics of PCC-Expr

Start at: 2018-05-22 13:38:56
End at: 2018-05-22 13:39:26
Local clock offset: 0.347 ms
Remote clock offset: -0.106 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 253.64 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 253.64 Mbit/s
95th percentile per-packet one-way delay: 1.118 ms
Loss rate: 0.08%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-22 09:52:05

End at: 2018-05-22 09:52:36

Local clock offset: 0.313 ms

Remote clock offset: 2.726 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.07%

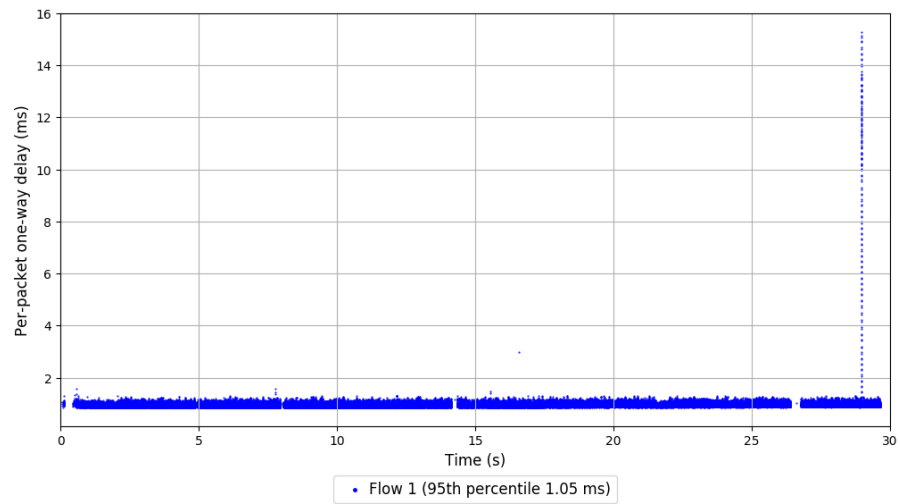
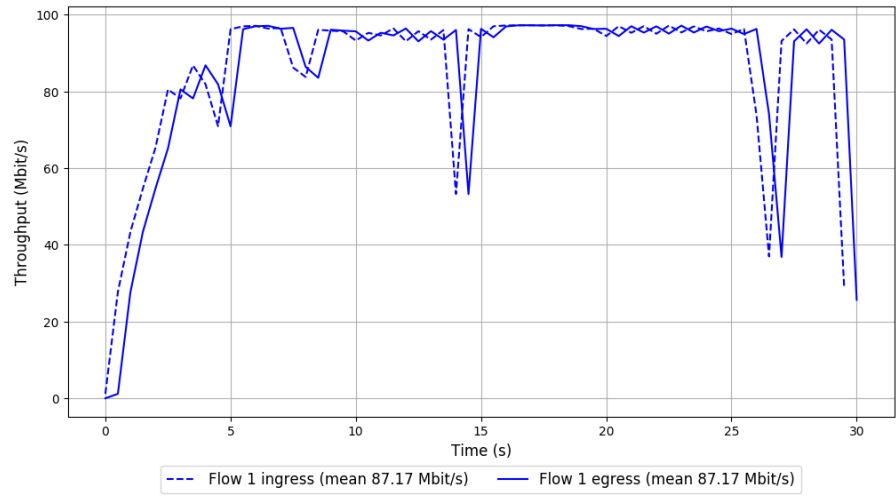
-- Flow 1:

Average throughput: 87.17 Mbit/s

95th percentile per-packet one-way delay: 1.054 ms

Loss rate: 0.07%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-22 10:16:10

End at: 2018-05-22 10:16:40

Local clock offset: 0.173 ms

Remote clock offset: 3.387 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.07%

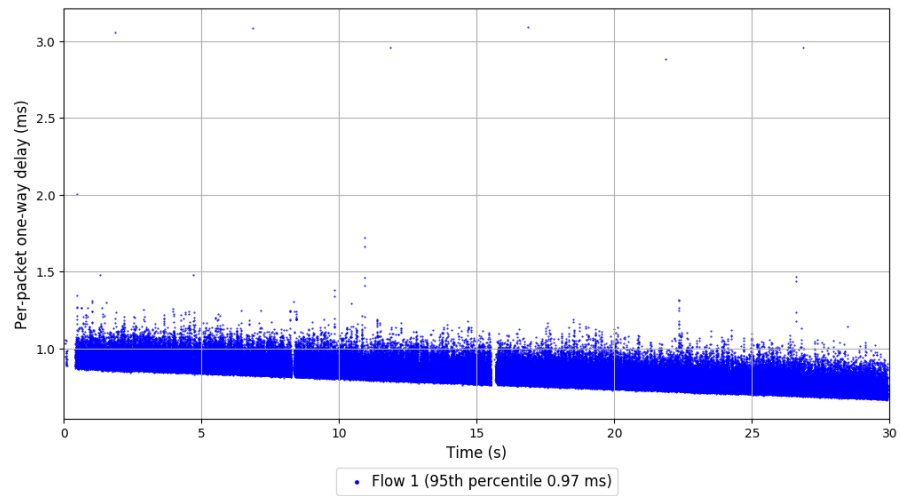
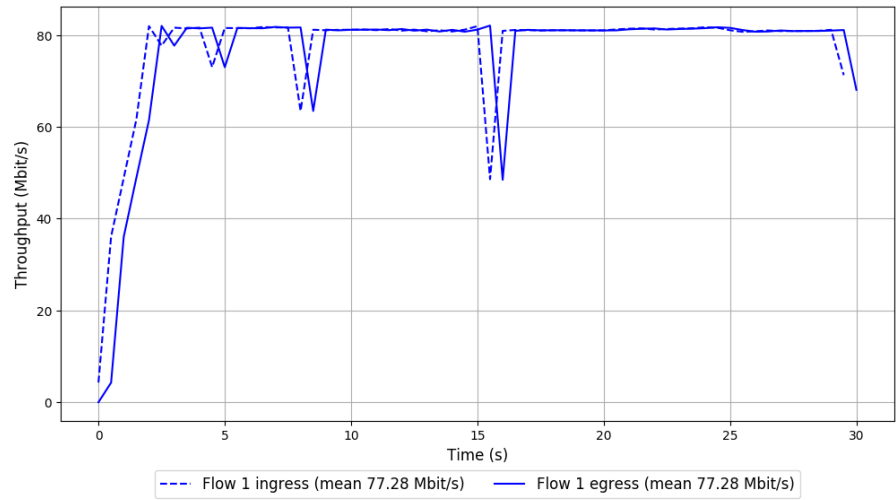
-- Flow 1:

Average throughput: 77.28 Mbit/s

95th percentile per-packet one-way delay: 0.968 ms

Loss rate: 0.07%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-22 10:40:20

End at: 2018-05-22 10:40:50

Local clock offset: 0.34 ms

Remote clock offset: -0.293 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.10 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.06%

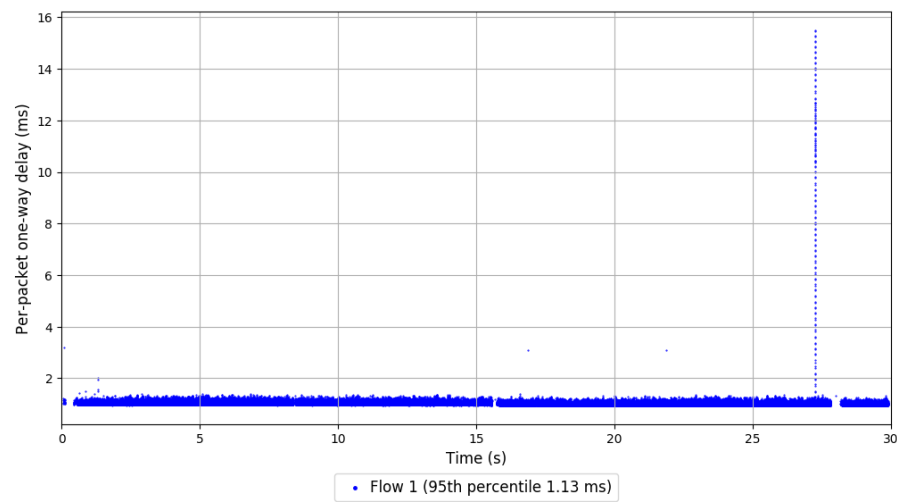
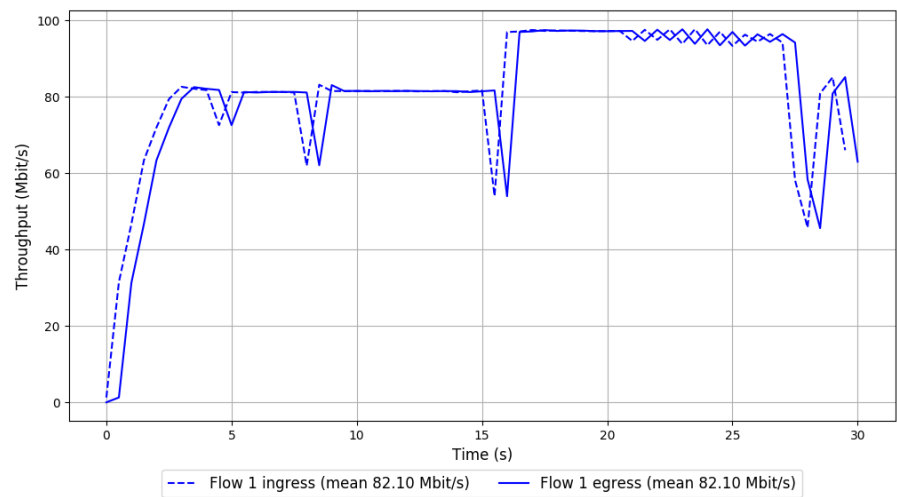
-- Flow 1:

Average throughput: 82.10 Mbit/s

95th percentile per-packet one-way delay: 1.126 ms

Loss rate: 0.06%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-22 11:04:19

End at: 2018-05-22 11:04:49

Local clock offset: 0.211 ms

Remote clock offset: -0.27 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.08%

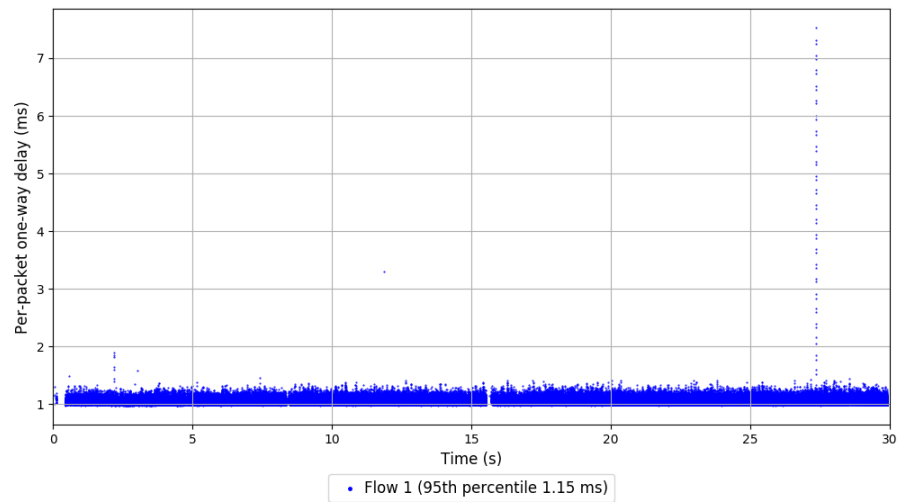
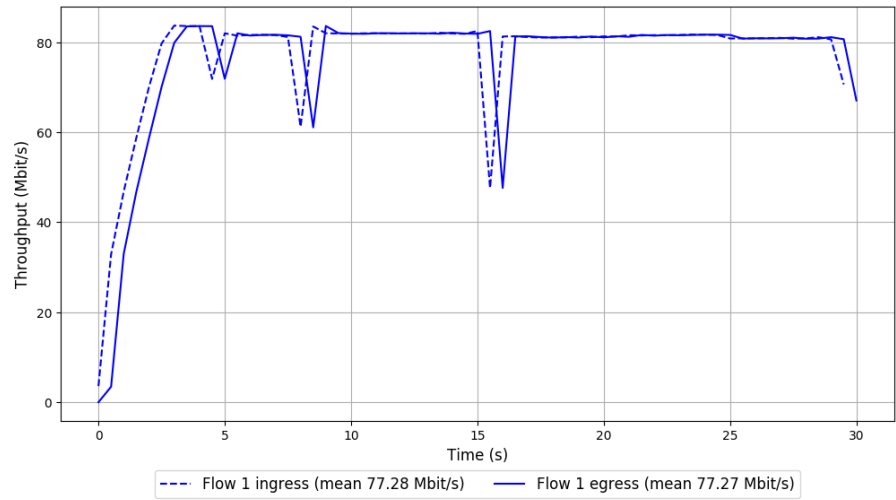
-- Flow 1:

Average throughput: 77.27 Mbit/s

95th percentile per-packet one-way delay: 1.146 ms

Loss rate: 0.08%

Run 4: Report of QUIC Cubic — Data Link

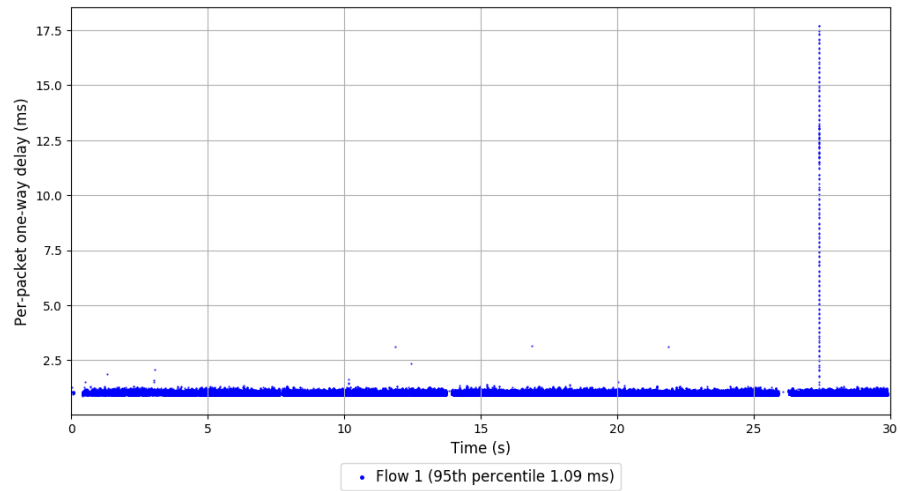
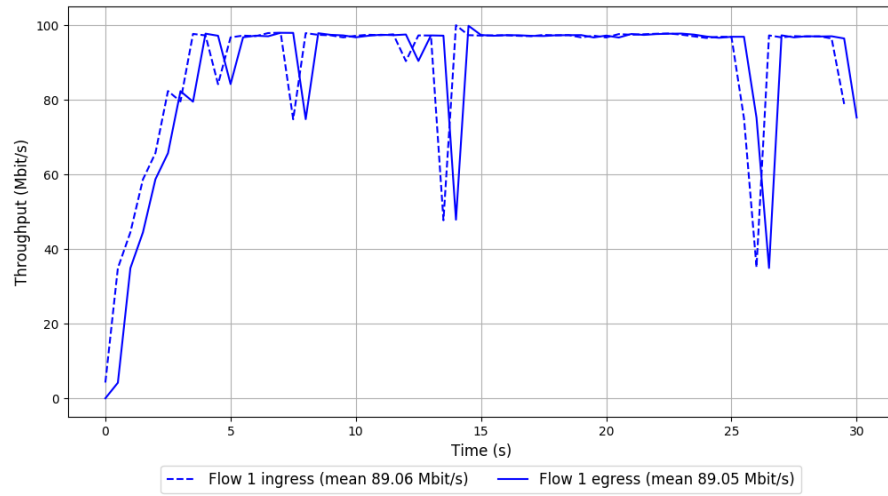


Run 5: Statistics of QUIC Cubic

Start at: 2018-05-22 11:28:11
End at: 2018-05-22 11:28:41
Local clock offset: -0.007 ms
Remote clock offset: -0.357 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 89.05 Mbit/s
95th percentile per-packet one-way delay: 1.086 ms
Loss rate: 0.07%

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-22 11:51:57

End at: 2018-05-22 11:52:27

Local clock offset: 0.304 ms

Remote clock offset: -0.258 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.08%

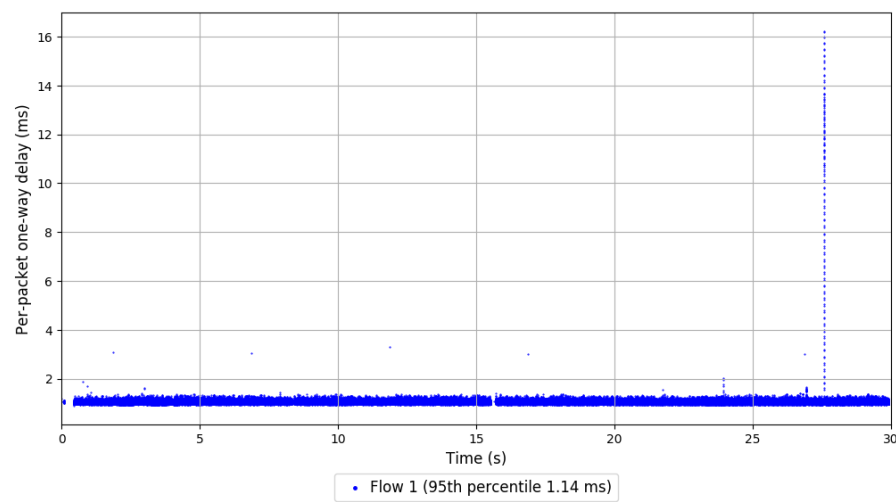
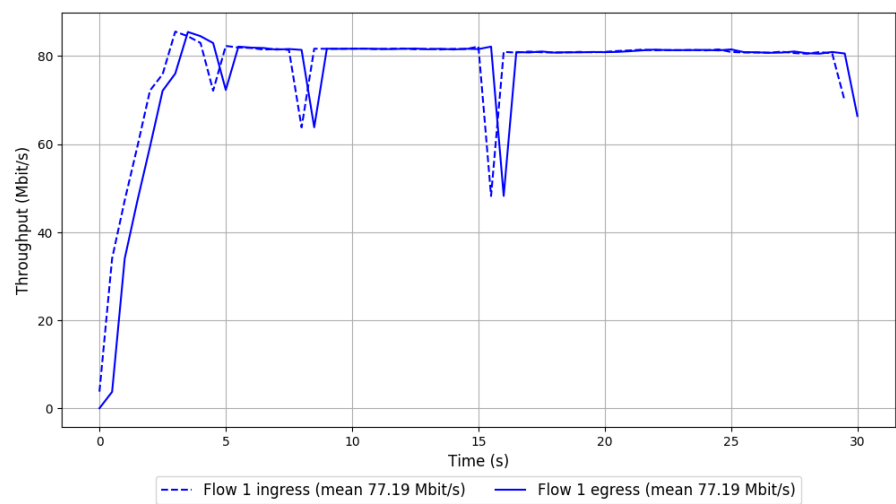
-- Flow 1:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 1.141 ms

Loss rate: 0.08%

Run 6: Report of QUIC Cubic — Data Link

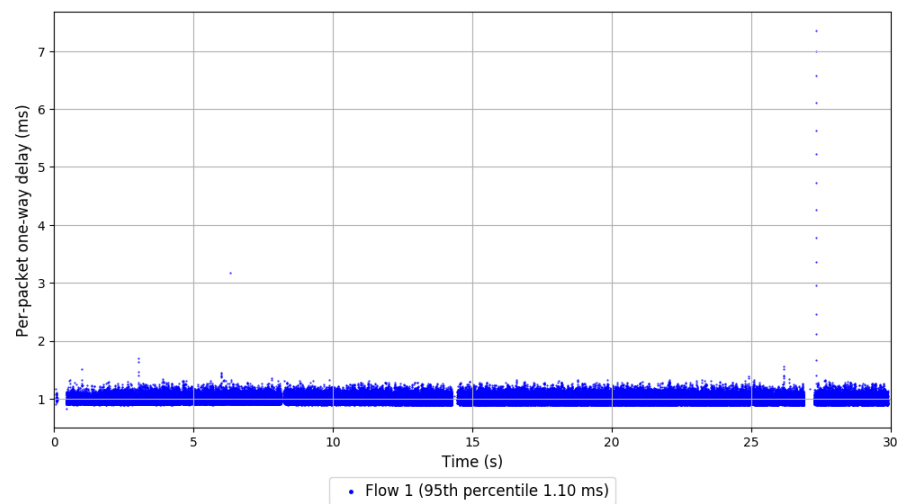
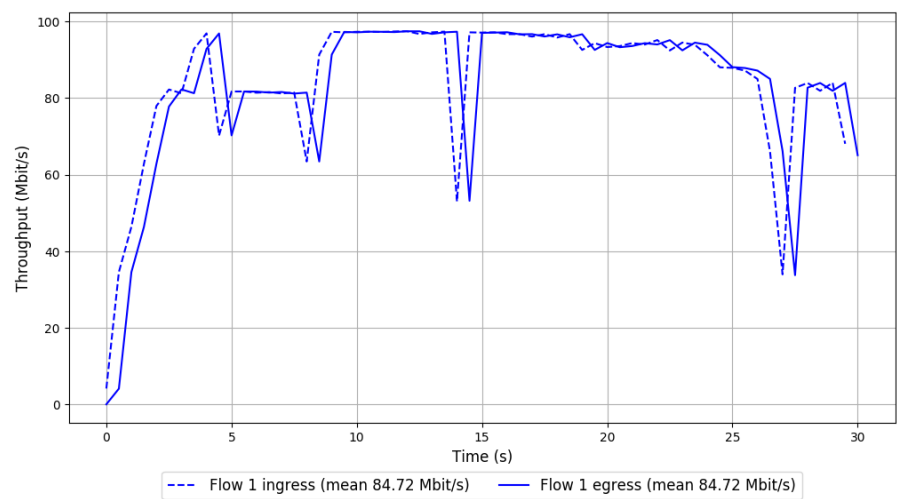


Run 7: Statistics of QUIC Cubic

Start at: 2018-05-22 12:15:51
End at: 2018-05-22 12:16:21
Local clock offset: 0.343 ms
Remote clock offset: -0.123 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 84.72 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.06%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-22 12:39:43

End at: 2018-05-22 12:40:13

Local clock offset: 0.307 ms

Remote clock offset: -0.271 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.07%

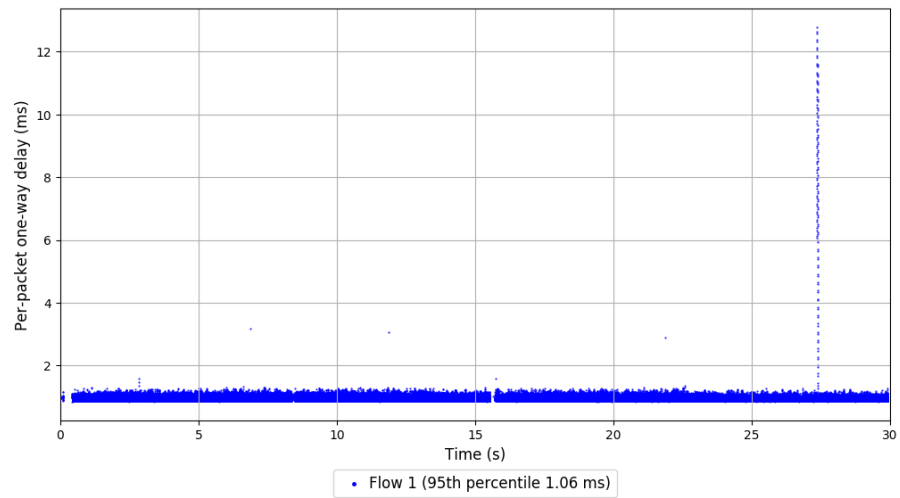
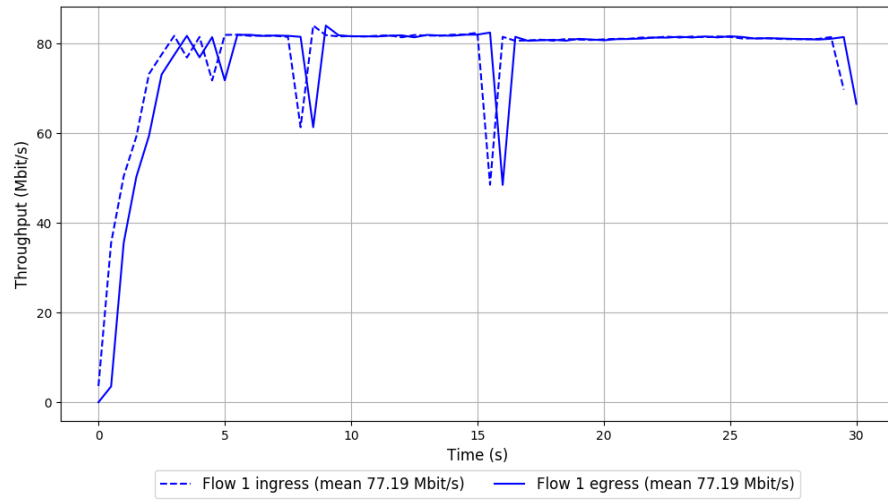
-- Flow 1:

Average throughput: 77.19 Mbit/s

95th percentile per-packet one-way delay: 1.057 ms

Loss rate: 0.07%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-22 13:03:28

End at: 2018-05-22 13:03:58

Local clock offset: 0.341 ms

Remote clock offset: -0.44 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 82.57 Mbit/s

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

Loss rate: 0.08%

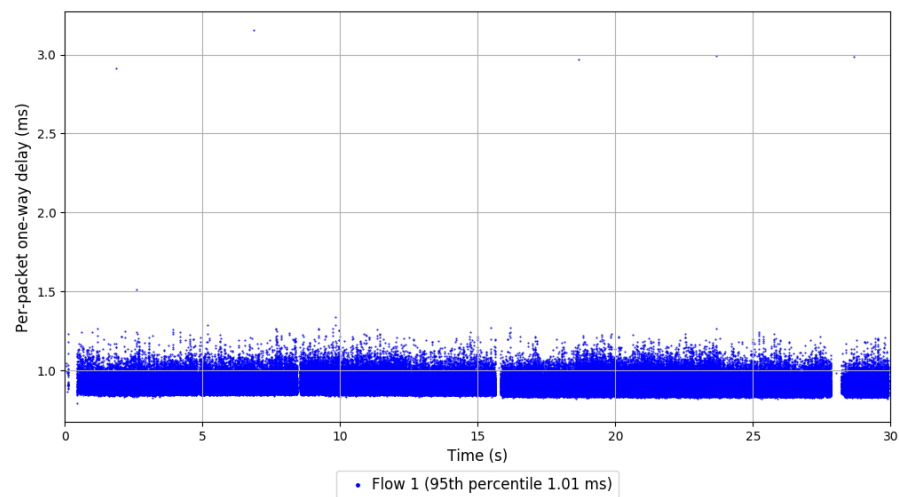
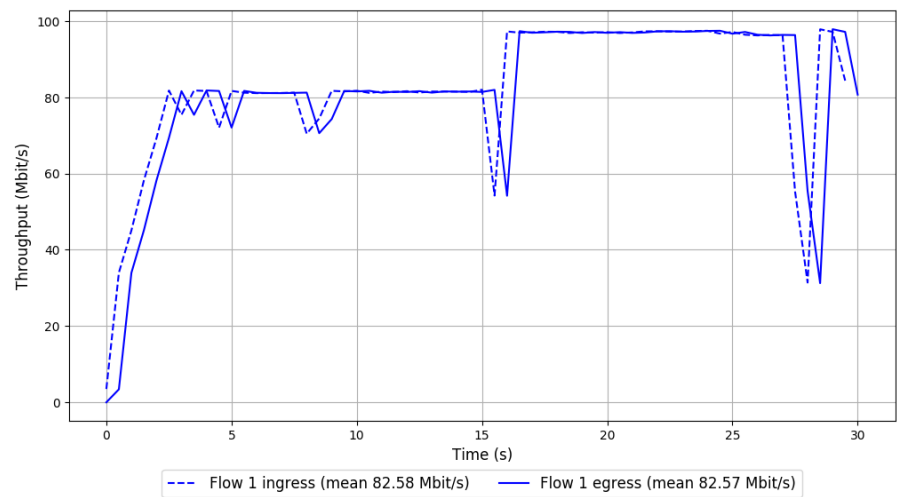
-- Flow 1:

Average throughput: 82.57 Mbit/s

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

Loss rate: 0.08%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-22 13:27:15

End at: 2018-05-22 13:27:45

Local clock offset: 0.373 ms

Remote clock offset: -0.081 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 77.54 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

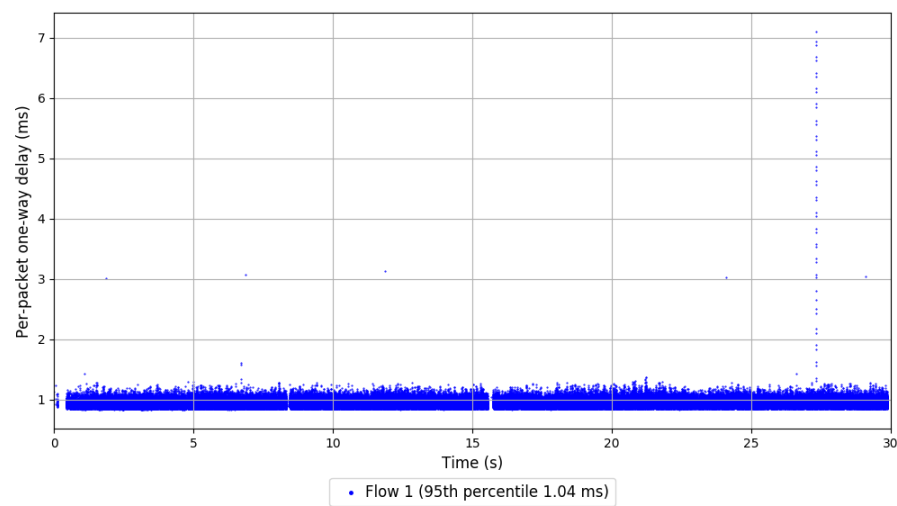
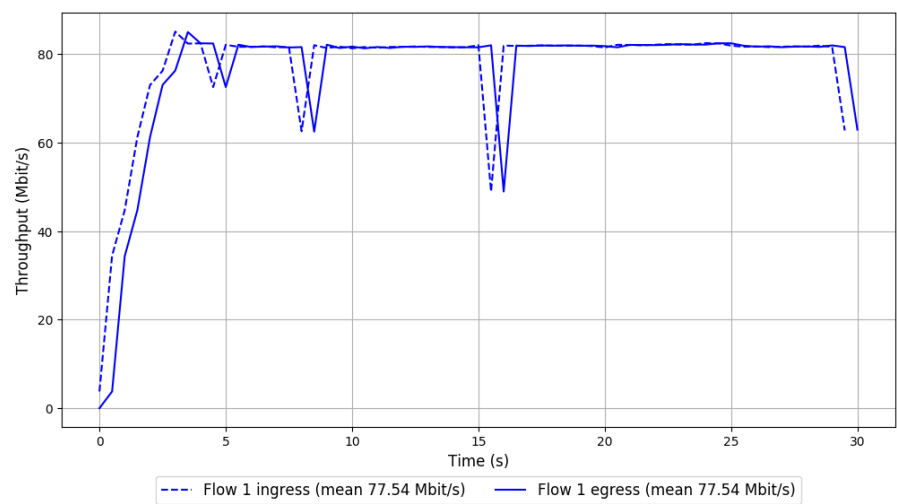
-- Flow 1:

Average throughput: 77.54 Mbit/s

95th percentile per-packet one-way delay: 1.044 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

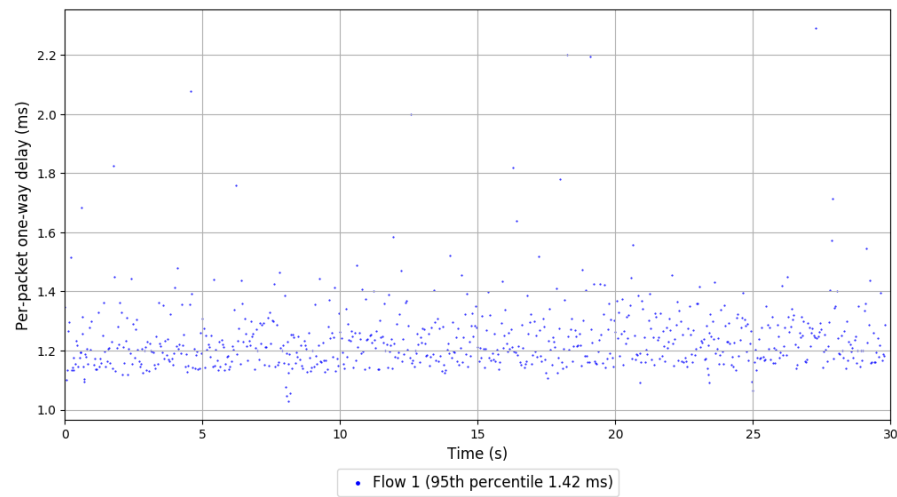
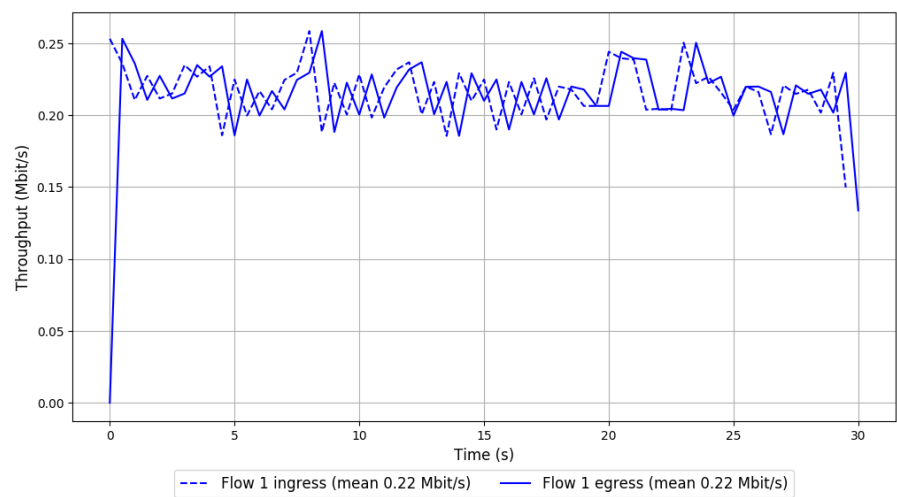


```
Run 1: Statistics of SCReAM

Start at: 2018-05-22 10:13:24
End at: 2018-05-22 10:13:54
Local clock offset: 0.203 ms
Remote clock offset: 3.872 ms

# Below is generated by plot.py at 2018-05-22 15:09:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.424 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.424 ms
Loss rate: 0.12%
```

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-22 10:37:35

End at: 2018-05-22 10:38:05

Local clock offset: 0.309 ms

Remote clock offset: -0.18 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.12%

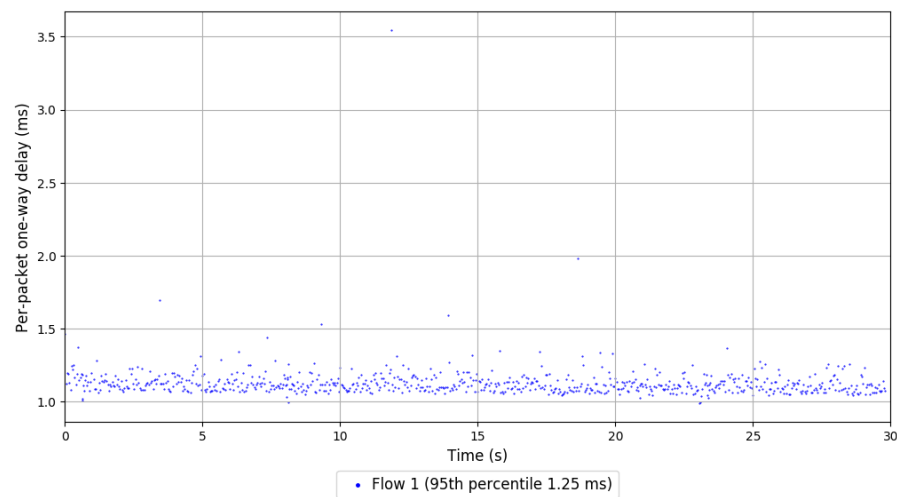
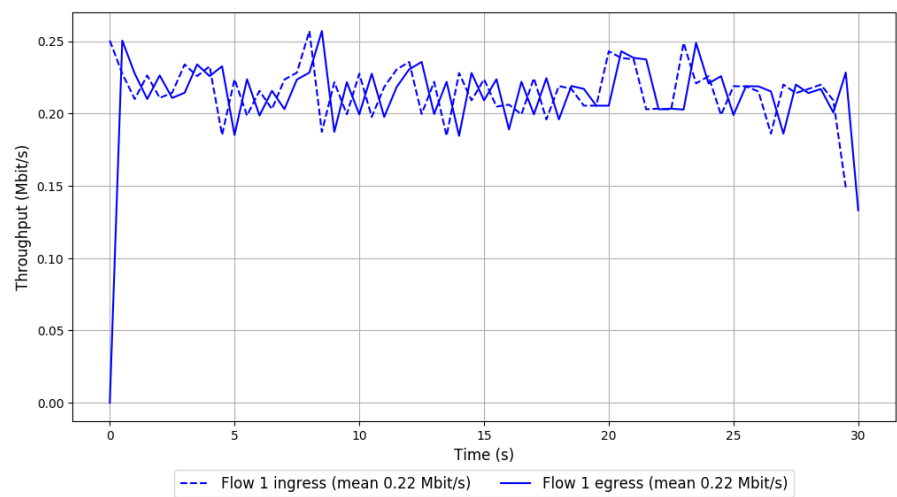
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.246 ms

Loss rate: 0.12%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-22 11:01:35

End at: 2018-05-22 11:02:05

Local clock offset: 0.248 ms

Remote clock offset: -0.22 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.12%

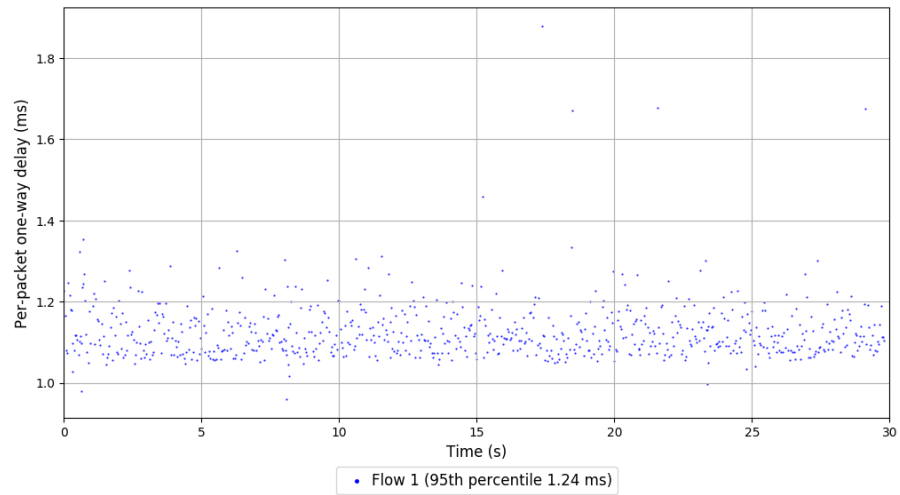
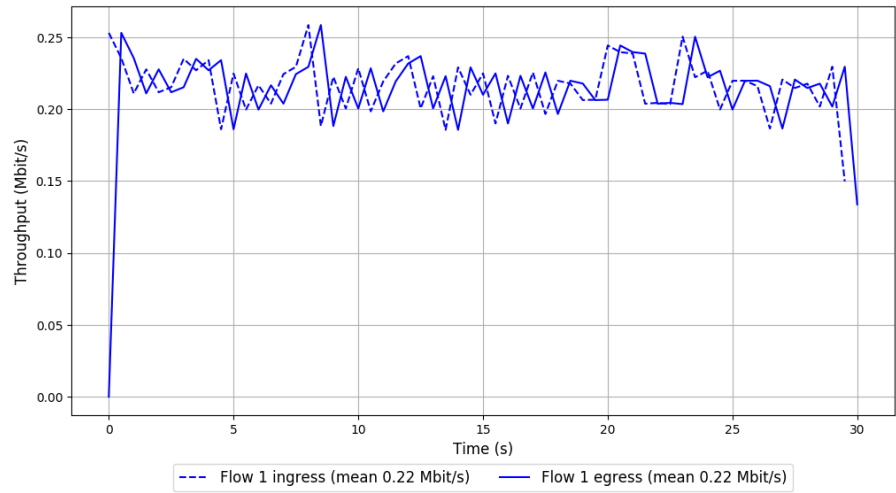
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.12%

Run 3: Report of SReAM — Data Link

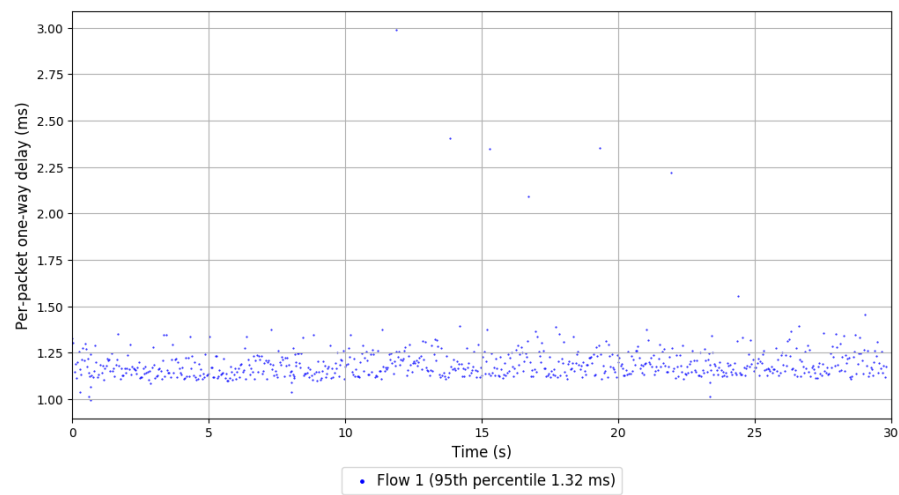
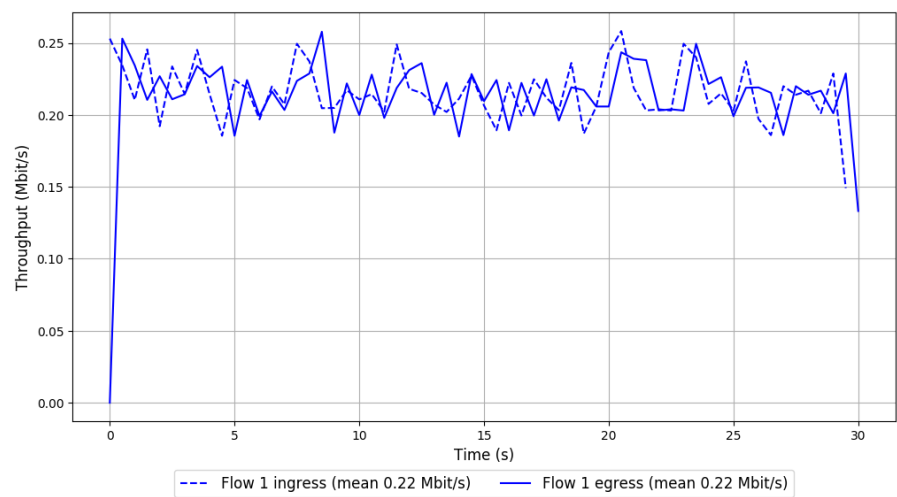


Run 4: Statistics of SCReAM

Start at: 2018-05-22 11:25:34
End at: 2018-05-22 11:26:04
Local clock offset: 0.03 ms
Remote clock offset: -0.355 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.323 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.323 ms
Loss rate: 0.12%

Run 4: Report of SReAM — Data Link

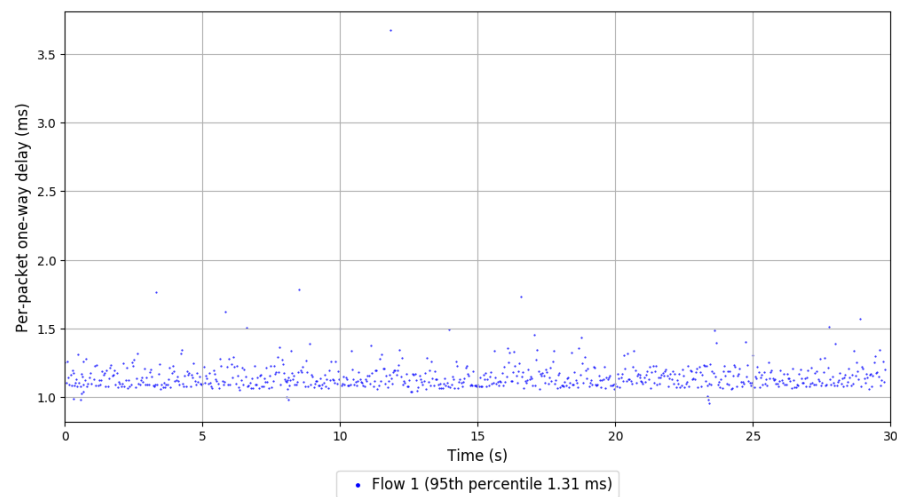
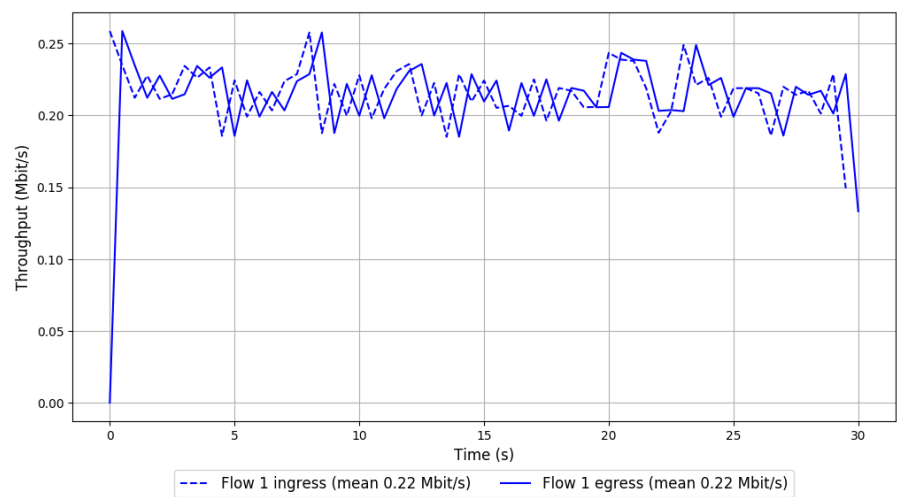


Run 5: Statistics of SCReAM

Start at: 2018-05-22 11:49:11
End at: 2018-05-22 11:49:41
Local clock offset: 0.305 ms
Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.310 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.310 ms
Loss rate: 0.12%

Run 5: Report of SReAM — Data Link

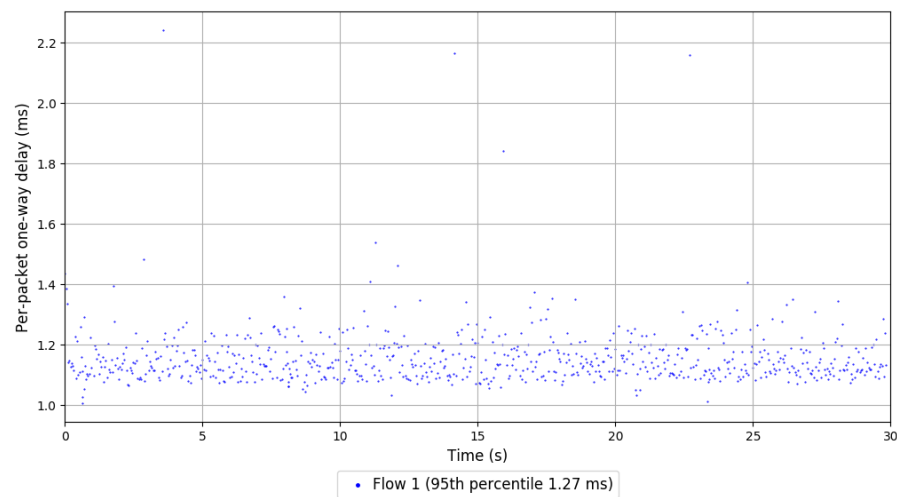
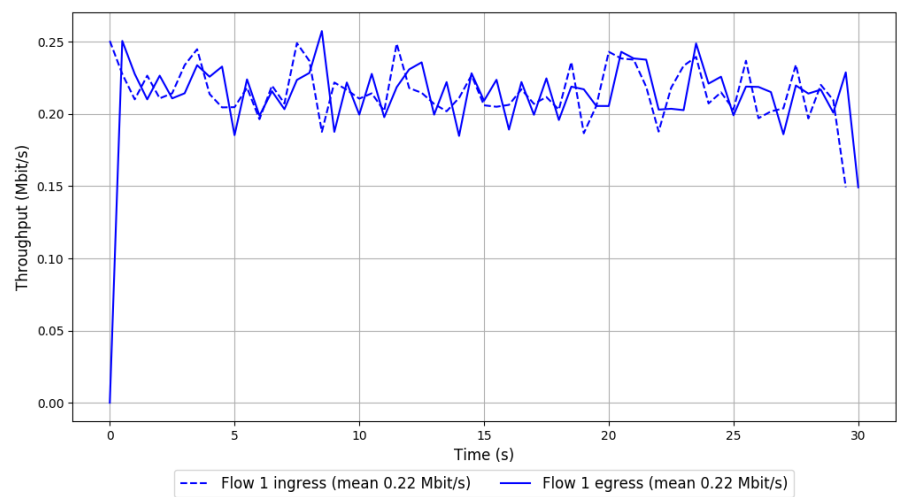


Run 6: Statistics of SCReAM

Start at: 2018-05-22 12:13:11
End at: 2018-05-22 12:13:41
Local clock offset: 0.345 ms
Remote clock offset: -0.163 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.275 ms
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

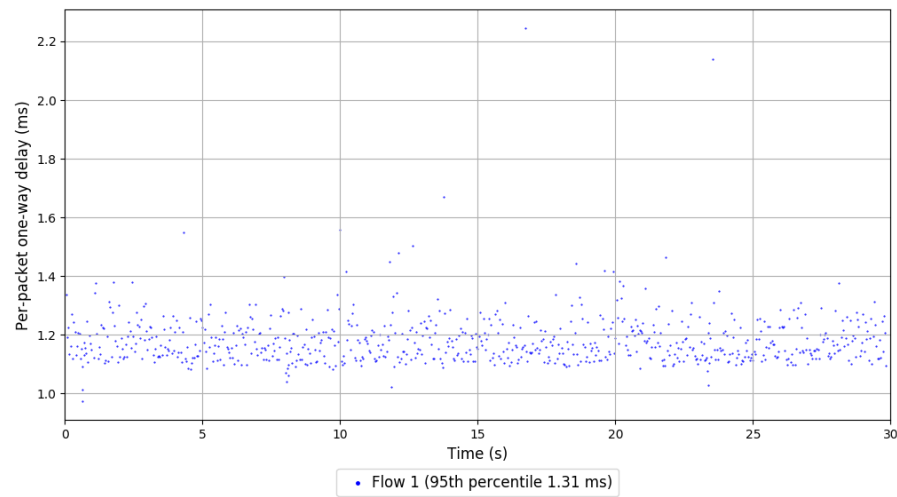
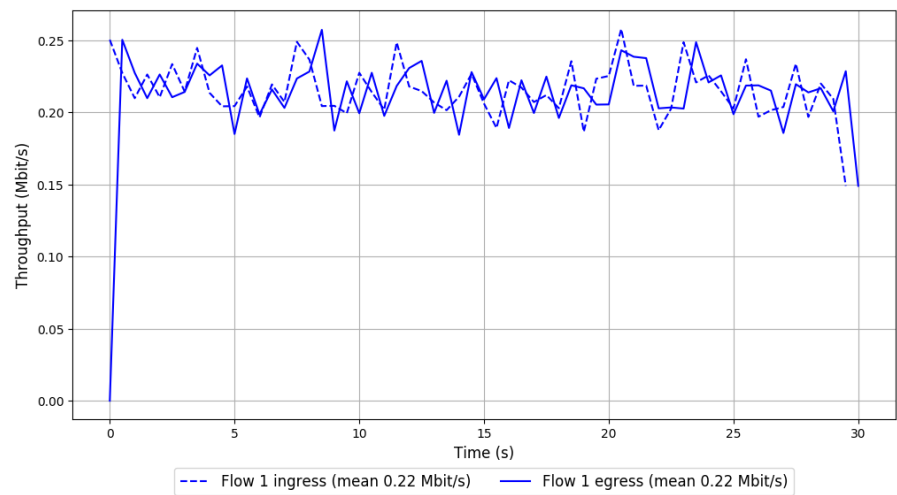


Run 7: Statistics of SCReAM

Start at: 2018-05-22 12:36:59
End at: 2018-05-22 12:37:29
Local clock offset: 0.374 ms
Remote clock offset: -0.324 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.308 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.308 ms
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link

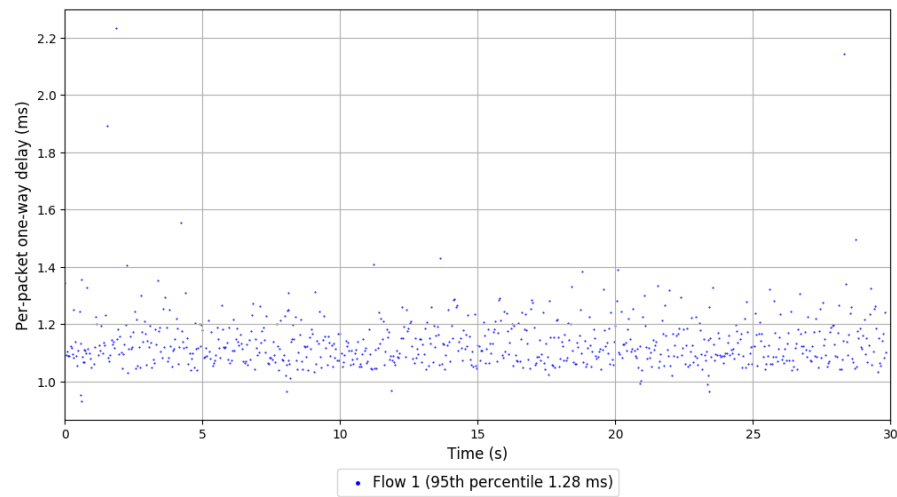
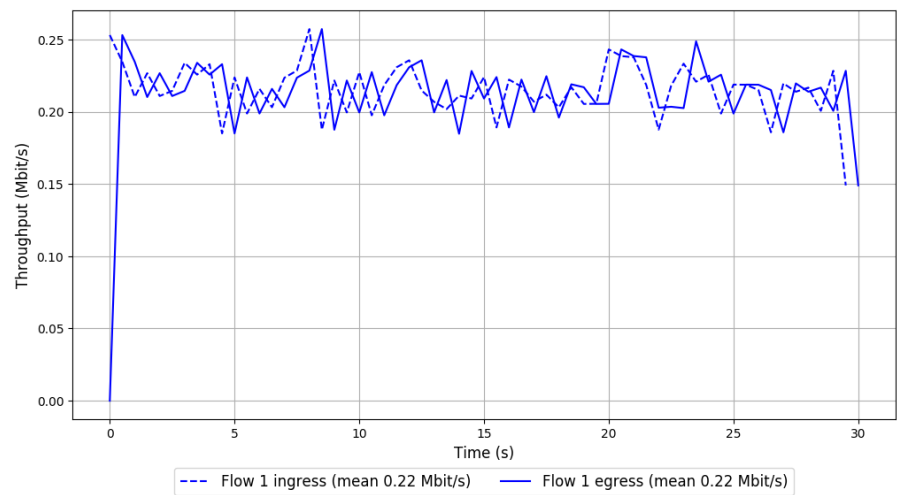


Run 8: Statistics of SCReAM

Start at: 2018-05-22 13:00:51
End at: 2018-05-22 13:01:21
Local clock offset: 0.44 ms
Remote clock offset: -0.416 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 1.277 ms
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-22 13:24:29

End at: 2018-05-22 13:24:59

Local clock offset: 0.472 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

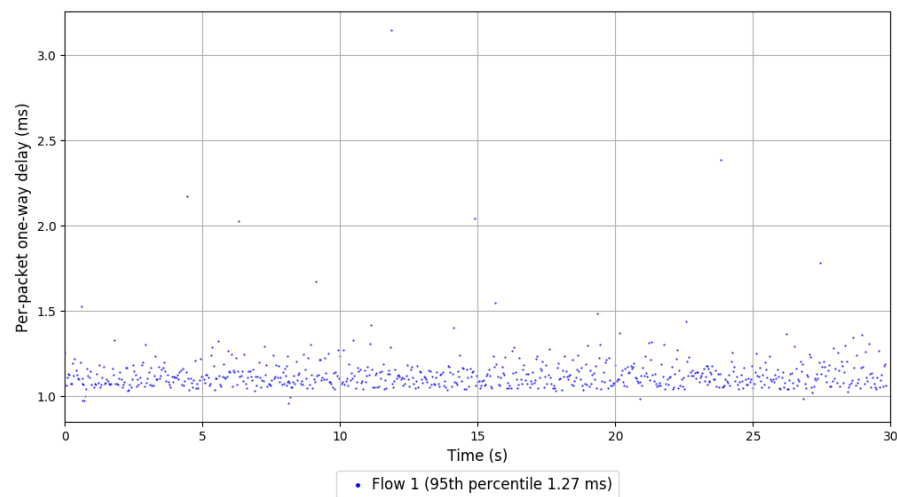
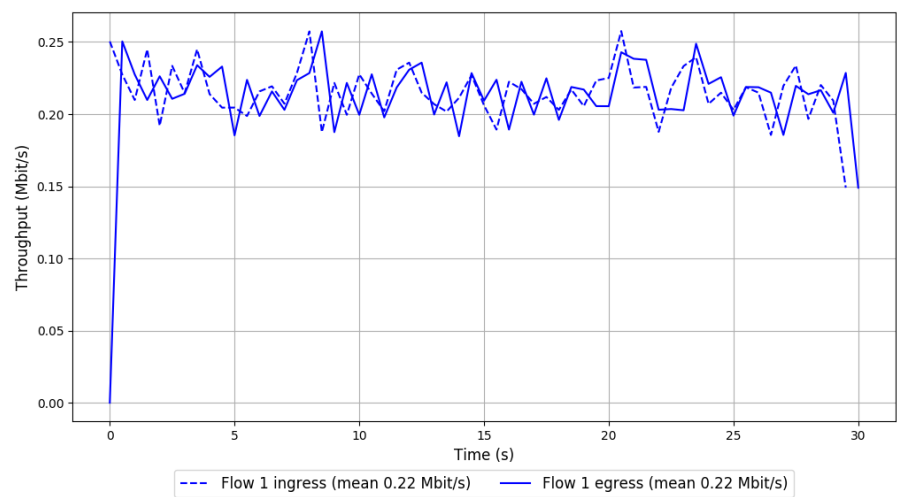
-- Flow 1:

Average throughput: 0.22 Mbit/s

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

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-22 13:48:42

End at: 2018-05-22 13:49:12

Local clock offset: 0.412 ms

Remote clock offset: -0.13 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.00%

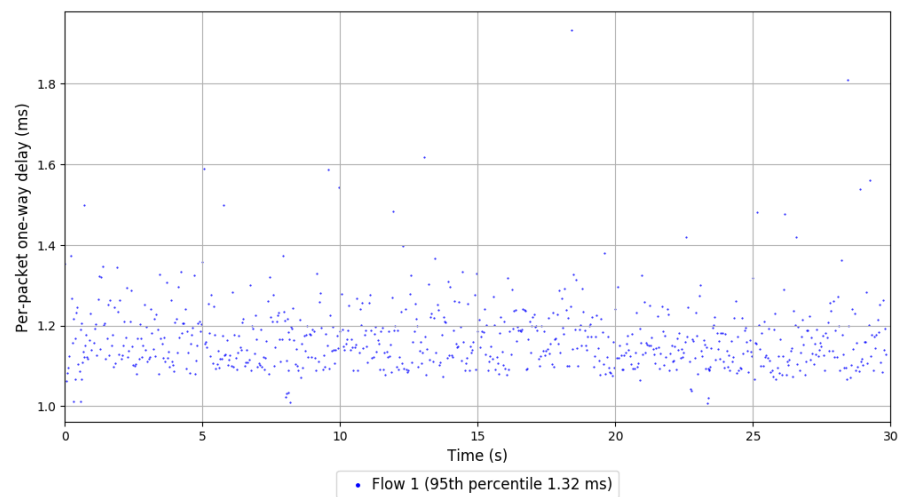
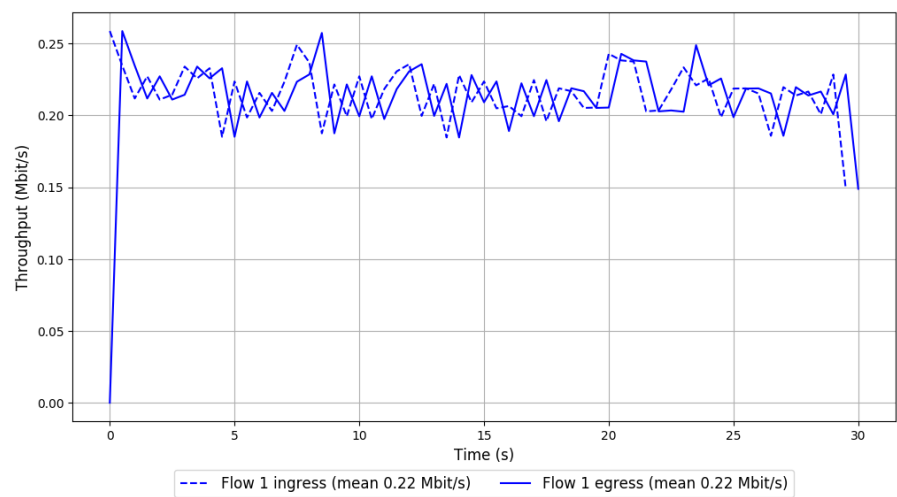
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 1.317 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-22 09:55:04

End at: 2018-05-22 09:55:34

Local clock offset: 0.395 ms

Remote clock offset: 2.869 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.03%

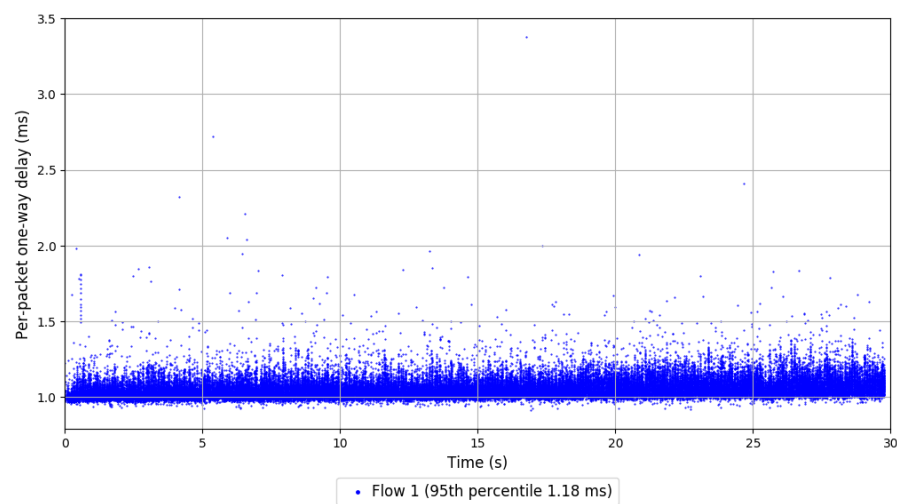
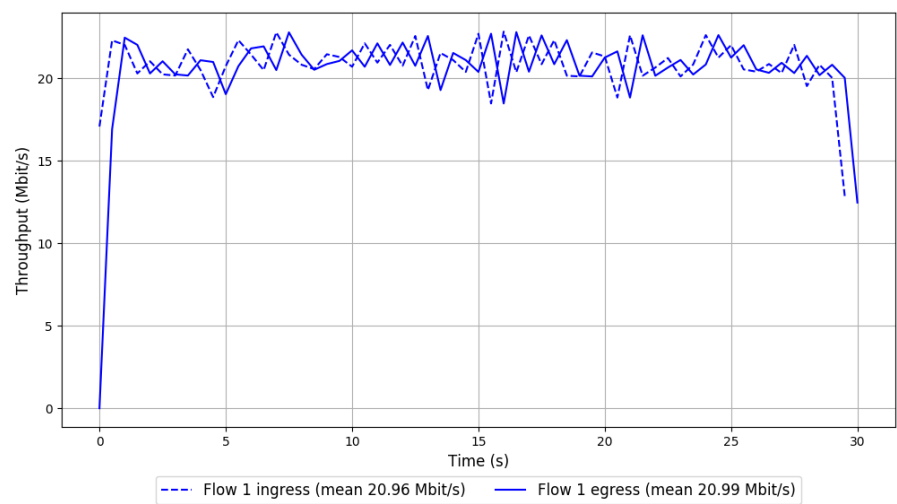
-- Flow 1:

Average throughput: 20.99 Mbit/s

95th percentile per-packet one-way delay: 1.183 ms

Loss rate: 0.03%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-22 10:19:06

End at: 2018-05-22 10:19:36

Local clock offset: 0.103 ms

Remote clock offset: 2.392 ms

Below is generated by plot.py at 2018-05-22 15:09:25

Datalink statistics

-- Total of 1 flow:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.00%

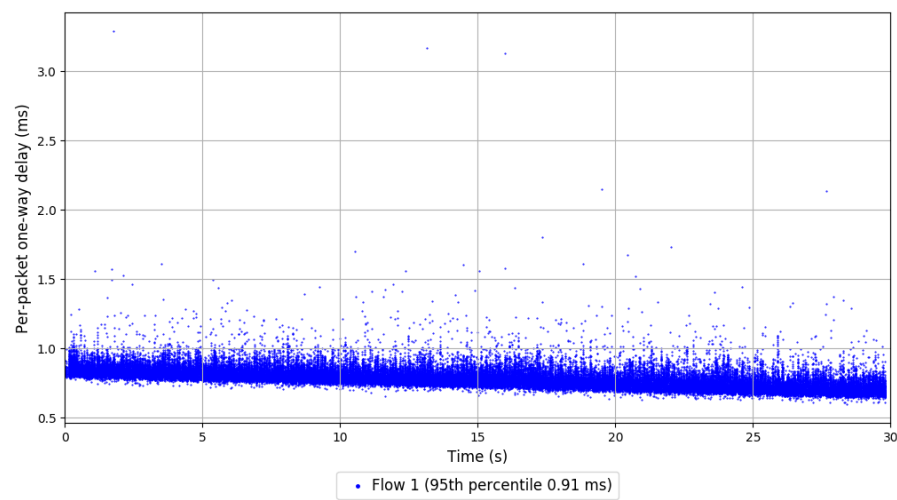
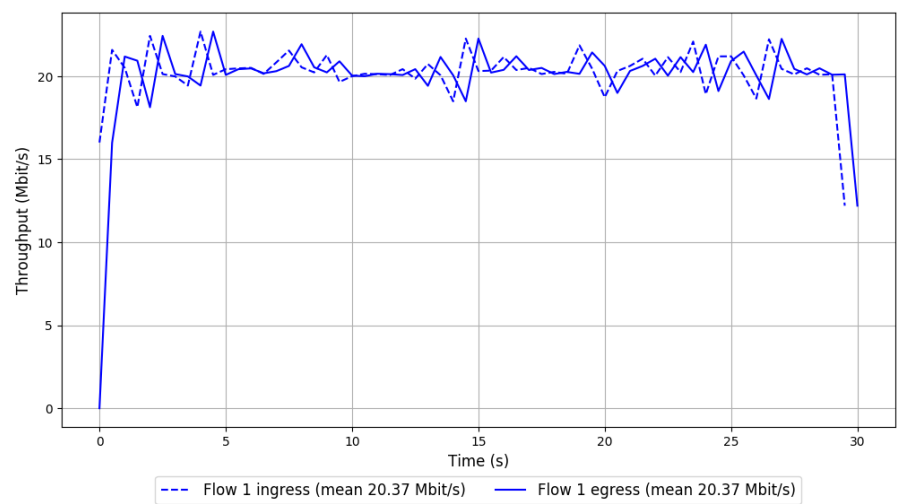
-- Flow 1:

Average throughput: 20.37 Mbit/s

95th percentile per-packet one-way delay: 0.908 ms

Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

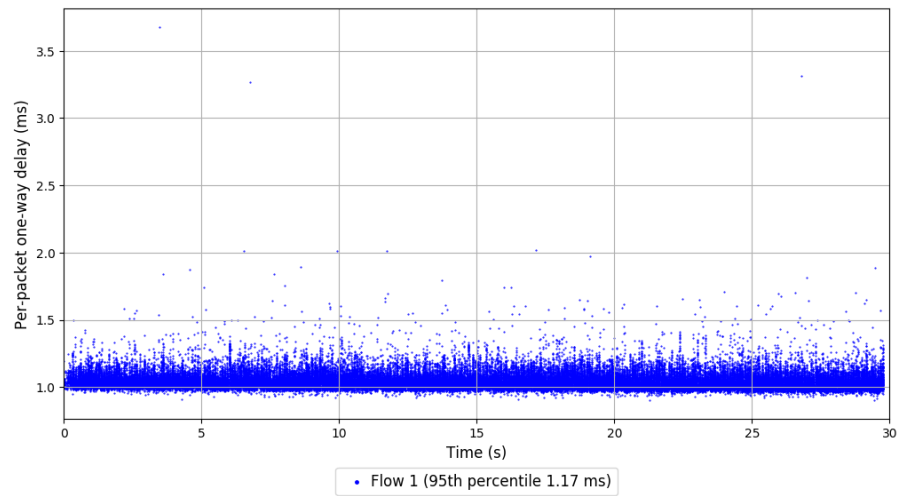
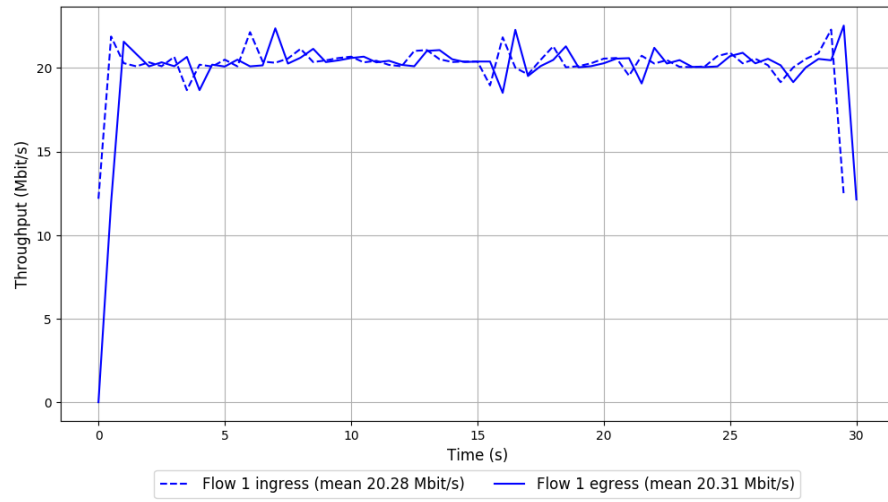


Run 3: Statistics of Sprout

Start at: 2018-05-22 10:43:07
End at: 2018-05-22 10:43:37
Local clock offset: 0.337 ms
Remote clock offset: -0.423 ms

```
# Below is generated by plot.py at 2018-05-22 15:09:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 20.31 Mbit/s
95th percentile per-packet one-way delay: 1.170 ms
Loss rate: 0.04%
```

Run 3: Report of Sprout — Data Link

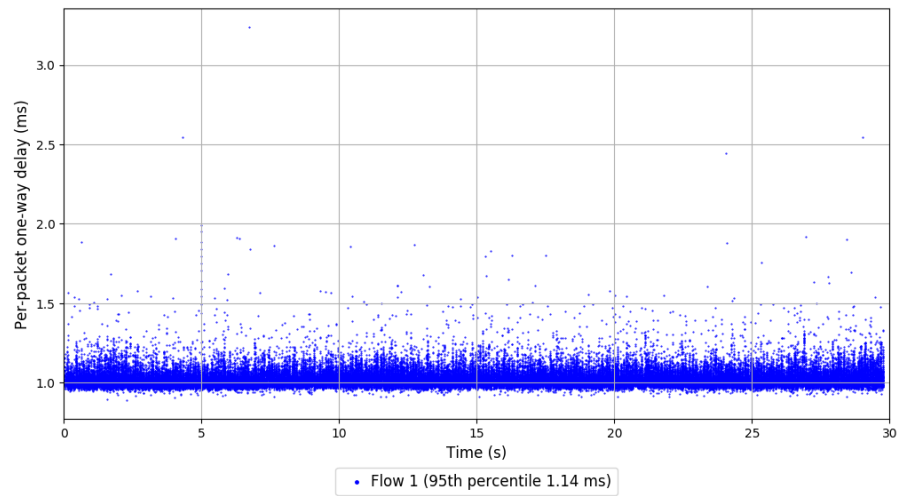
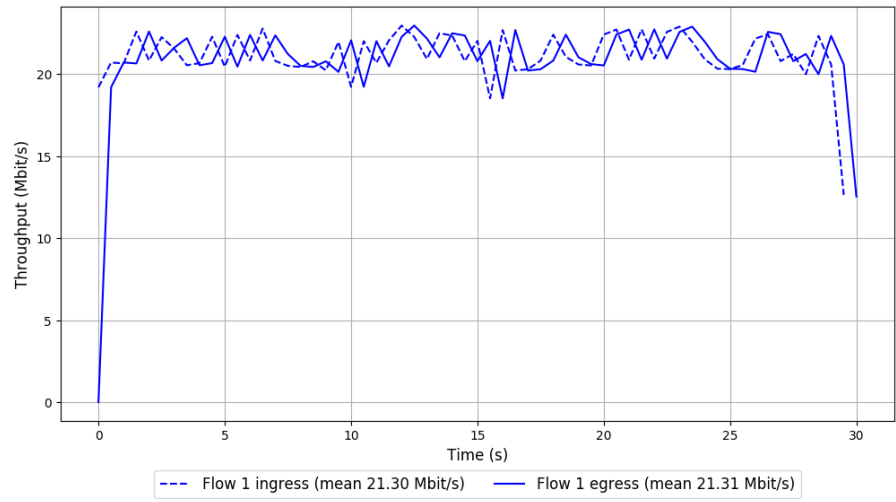


Run 4: Statistics of Sprout

Start at: 2018-05-22 11:07:16
End at: 2018-05-22 11:07:46
Local clock offset: 0.162 ms
Remote clock offset: -0.266 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 21.31 Mbit/s
95th percentile per-packet one-way delay: 1.138 ms
Loss rate: 0.01%

Run 4: Report of Sprout — Data Link

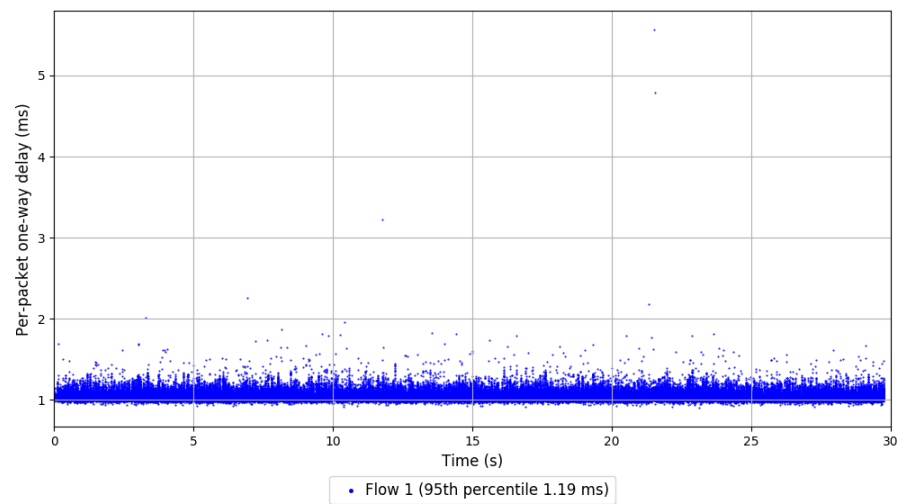
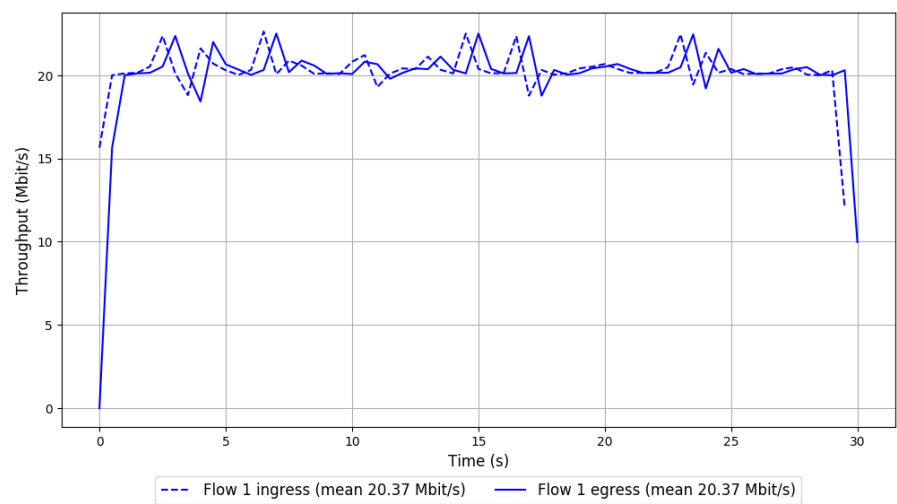


Run 5: Statistics of Sprout

Start at: 2018-05-22 11:31:10
End at: 2018-05-22 11:31:40
Local clock offset: 0.143 ms
Remote clock offset: -0.286 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 20.37 Mbit/s
95th percentile per-packet one-way delay: 1.192 ms
Loss rate: 0.17%

Run 5: Report of Sprout — Data Link

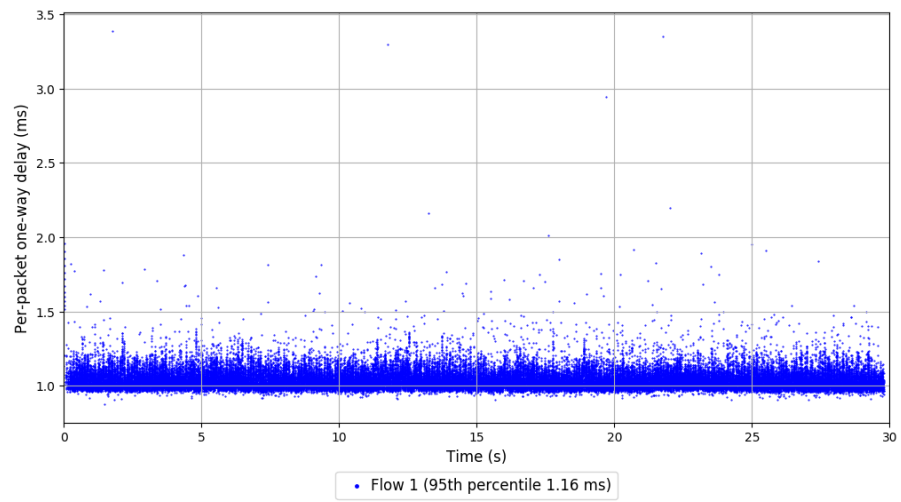
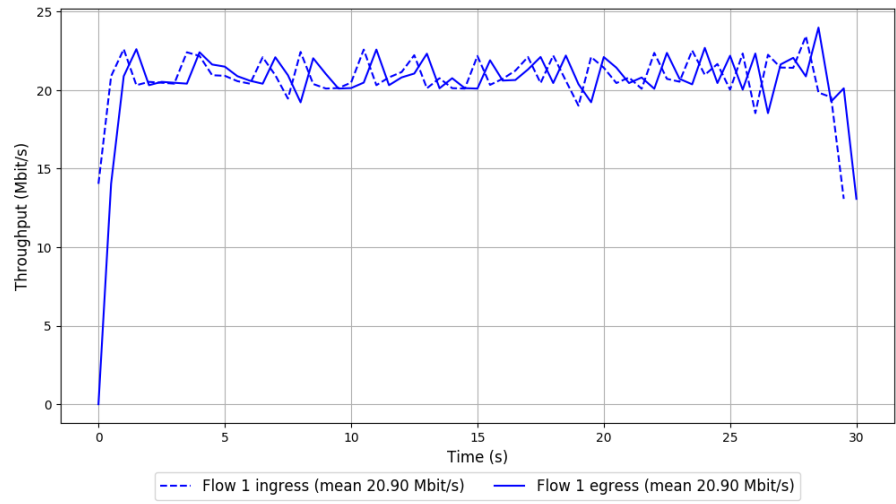


Run 6: Statistics of Sprout

Start at: 2018-05-22 11:54:53
End at: 2018-05-22 11:55:23
Local clock offset: 0.333 ms
Remote clock offset: -0.274 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.90 Mbit/s
95th percentile per-packet one-way delay: 1.163 ms
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

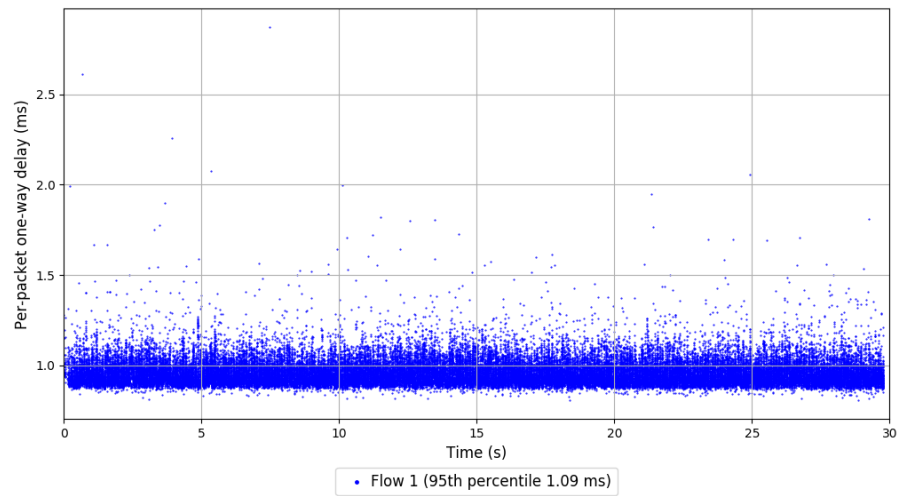
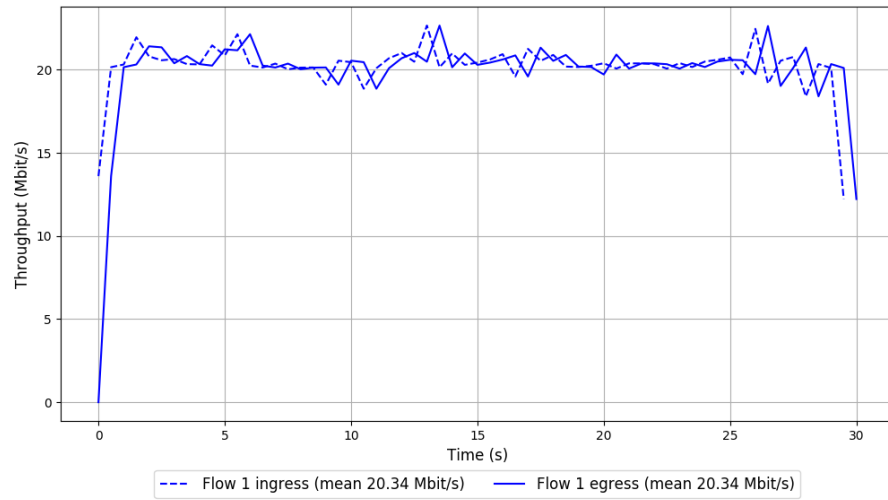


Run 7: Statistics of Sprout

Start at: 2018-05-22 12:18:41
End at: 2018-05-22 12:19:11
Local clock offset: 0.246 ms
Remote clock offset: -0.206 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.34 Mbit/s
95th percentile per-packet one-way delay: 1.088 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

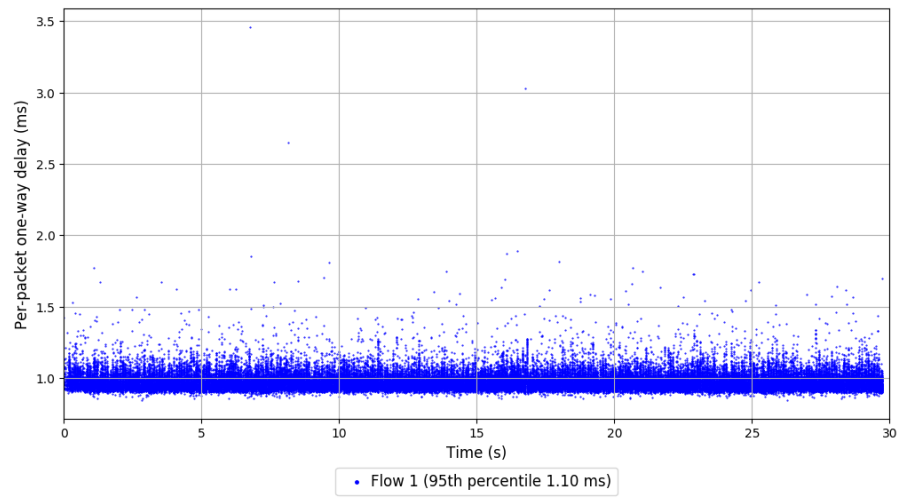
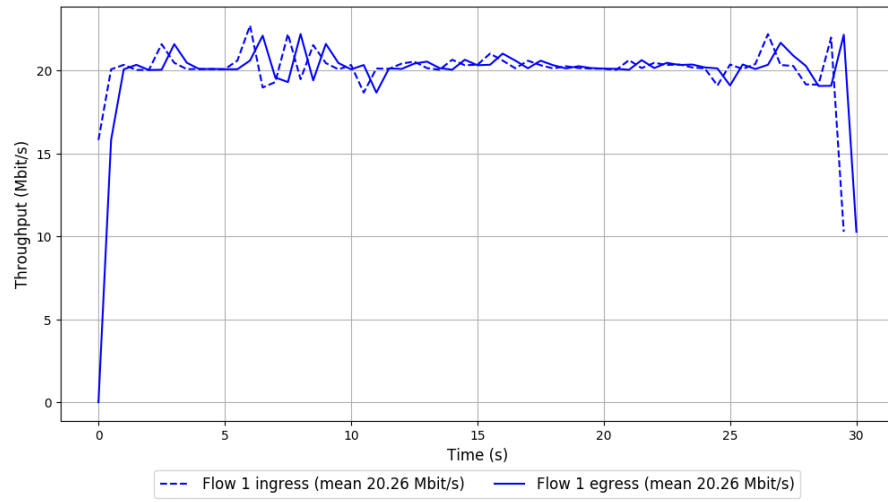


Run 8: Statistics of Sprout

Start at: 2018-05-22 12:42:39
End at: 2018-05-22 12:43:09
Local clock offset: 0.308 ms
Remote clock offset: -0.298 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.26 Mbit/s
95th percentile per-packet one-way delay: 1.098 ms
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link

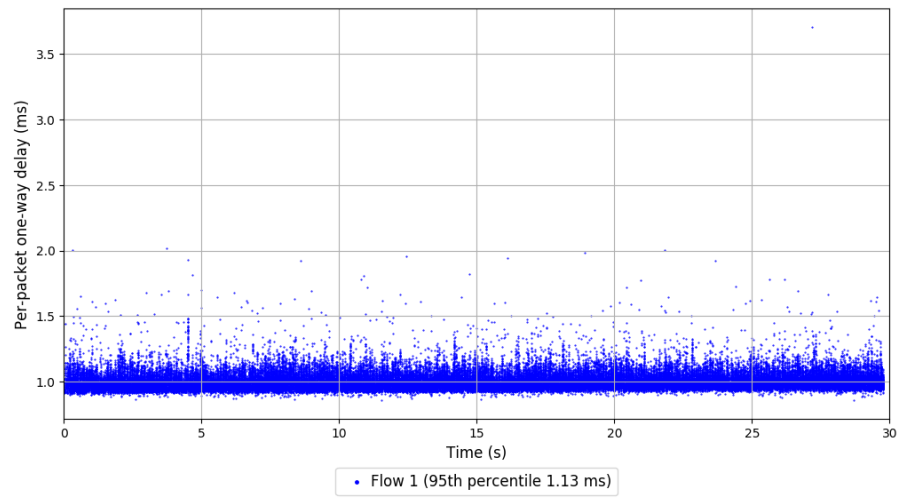
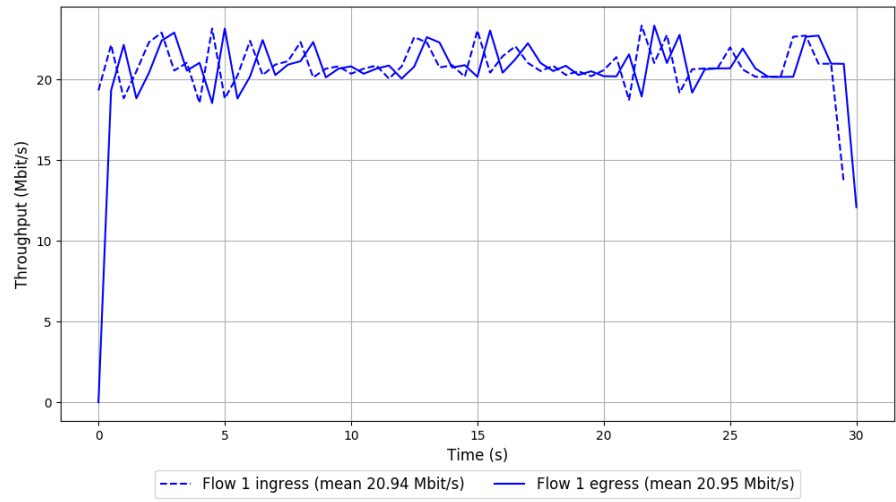


Run 9: Statistics of Sprout

Start at: 2018-05-22 13:06:14
End at: 2018-05-22 13:06:44
Local clock offset: 0.365 ms
Remote clock offset: -0.474 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 1.134 ms
Loss rate: 0.12%

Run 9: Report of Sprout — Data Link

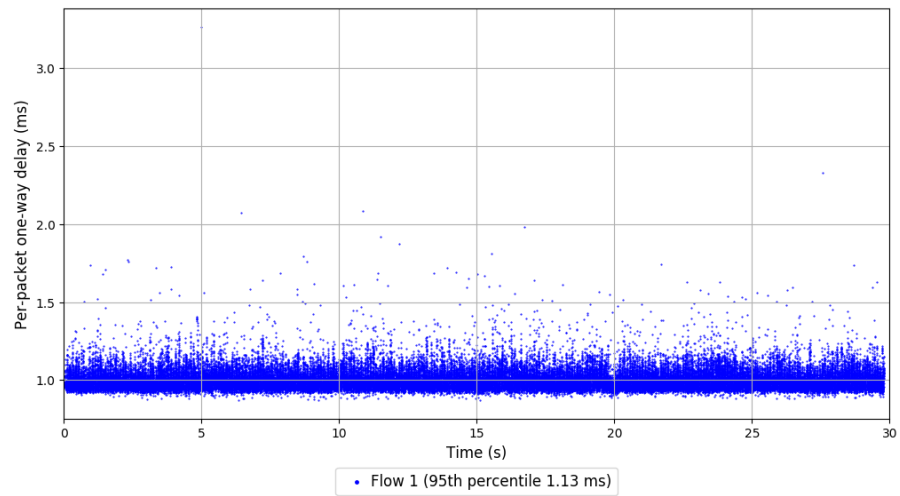
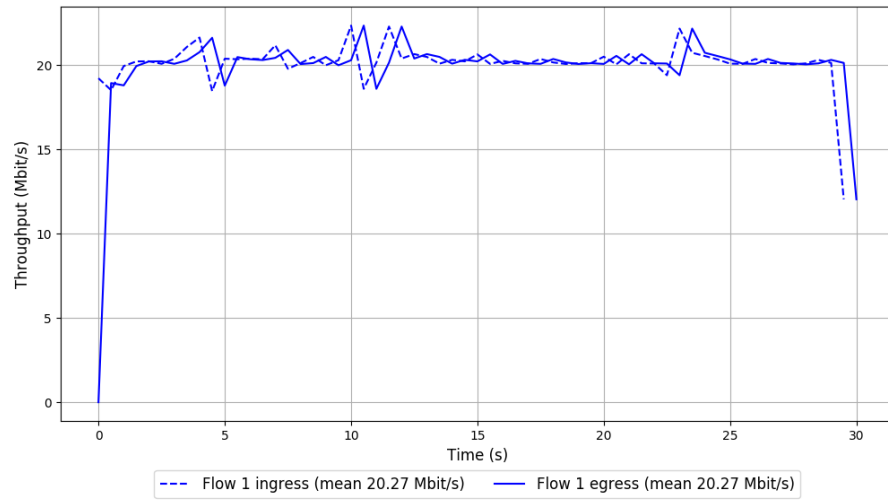


Run 10: Statistics of Sprout

Start at: 2018-05-22 13:30:11
End at: 2018-05-22 13:30:41
Local clock offset: 0.373 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-05-22 15:09:25
Datalink statistics
-- Total of 1 flow:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 20.27 Mbit/s
95th percentile per-packet one-way delay: 1.128 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

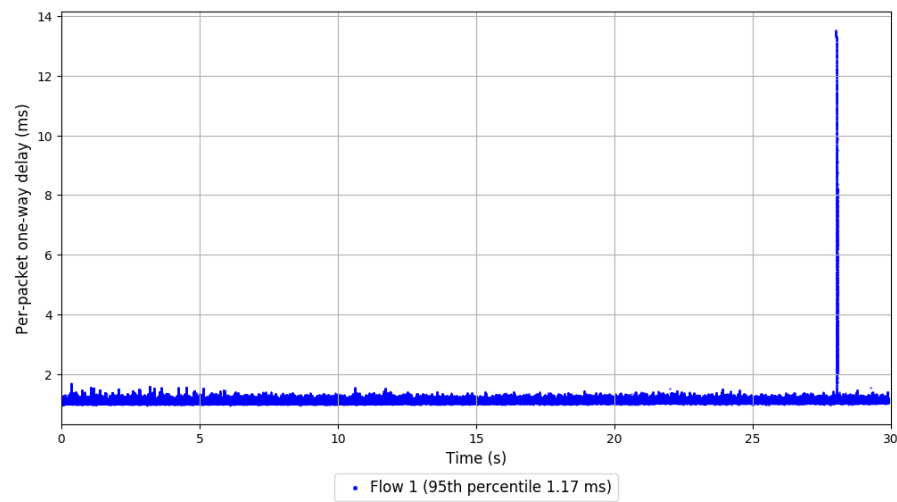
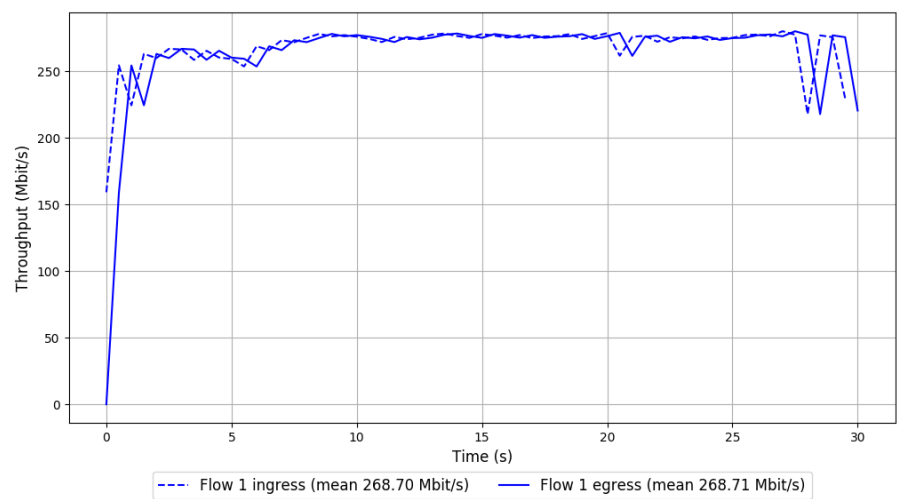


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-22 10:08:39
End at: 2018-05-22 10:09:09
Local clock offset: 0.238 ms
Remote clock offset: 3.605 ms

# Below is generated by plot.py at 2018-05-22 15:13:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 268.71 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 268.71 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.06%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-22 10:32:47

End at: 2018-05-22 10:33:17

Local clock offset: 0.253 ms

Remote clock offset: 0.136 ms

Below is generated by plot.py at 2018-05-22 15:13:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 276.97 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.07%

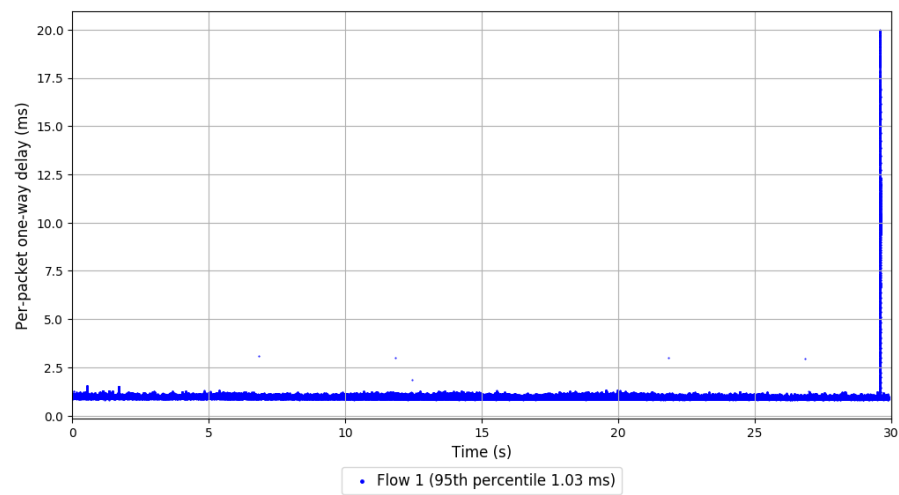
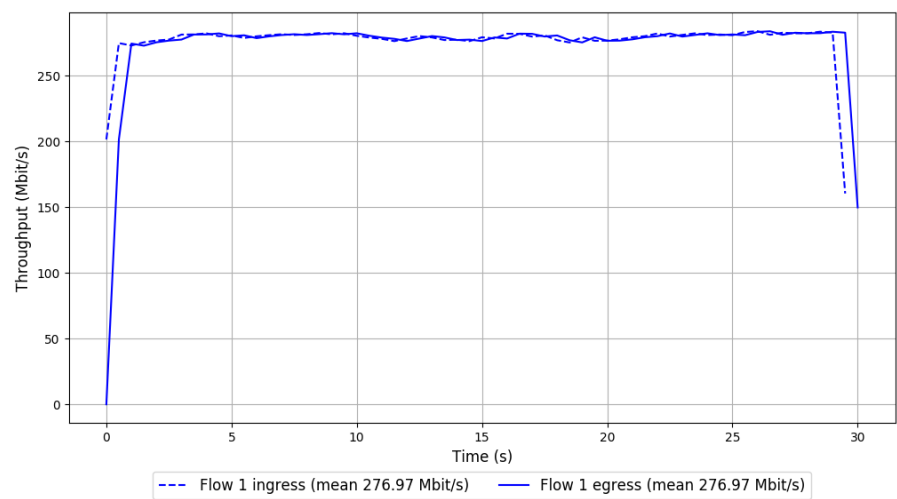
-- Flow 1:

Average throughput: 276.97 Mbit/s

95th percentile per-packet one-way delay: 1.027 ms

Loss rate: 0.07%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-22 10:56:44

End at: 2018-05-22 10:57:14

Local clock offset: 0.346 ms

Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-05-22 15:13:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 272.97 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.06%

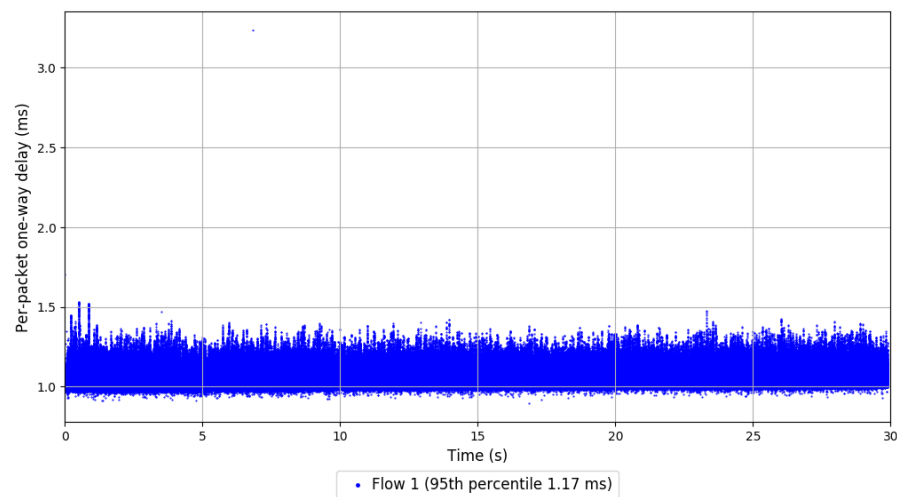
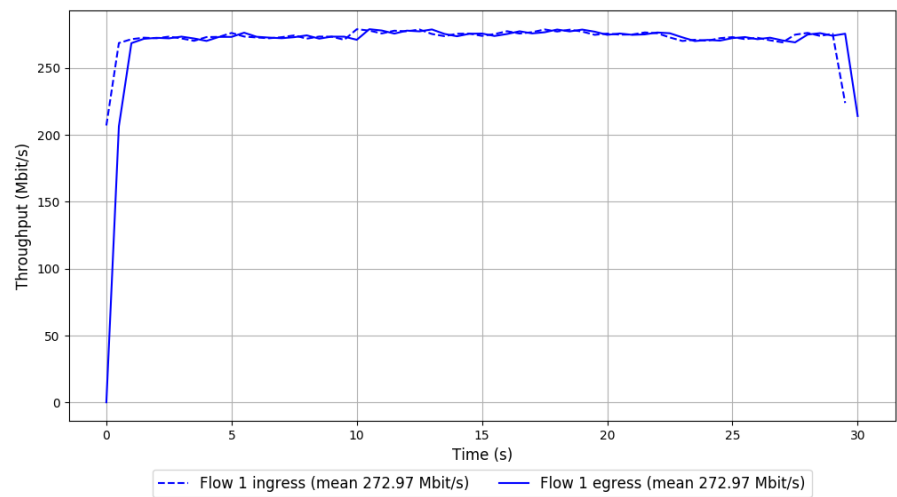
-- Flow 1:

Average throughput: 272.97 Mbit/s

95th percentile per-packet one-way delay: 1.168 ms

Loss rate: 0.06%

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

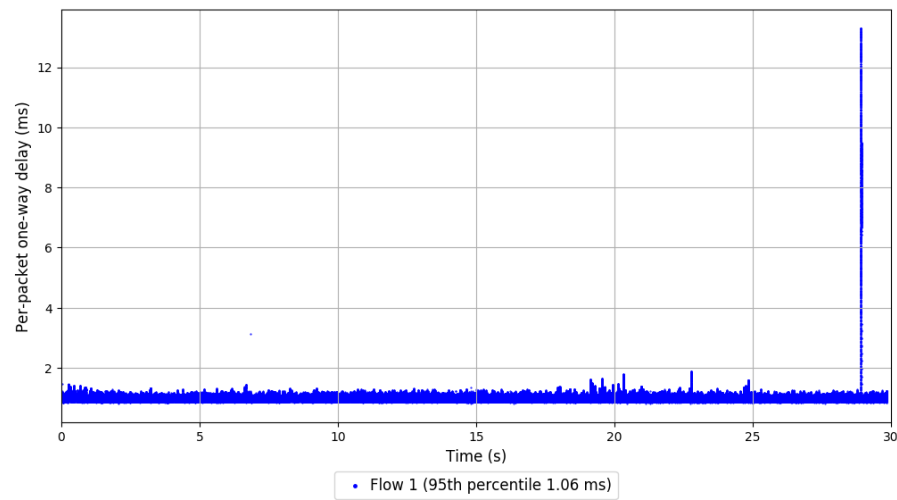
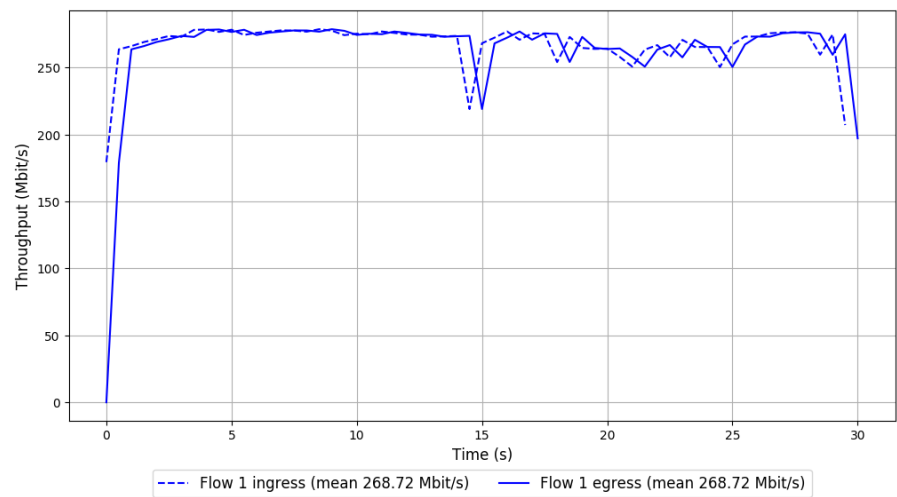


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-22 11:20:47
End at: 2018-05-22 11:21:17
Local clock offset: -0.024 ms
Remote clock offset: -0.368 ms

Below is generated by plot.py at 2018-05-22 15:13:54
Datalink statistics
-- Total of 1 flow:
Average throughput: 268.72 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 268.72 Mbit/s
95th percentile per-packet one-way delay: 1.064 ms
Loss rate: 0.06%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-22 11:44:25

End at: 2018-05-22 11:44:55

Local clock offset: 0.3 ms

Remote clock offset: -0.236 ms

Below is generated by plot.py at 2018-05-22 15:13:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.52 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.07%

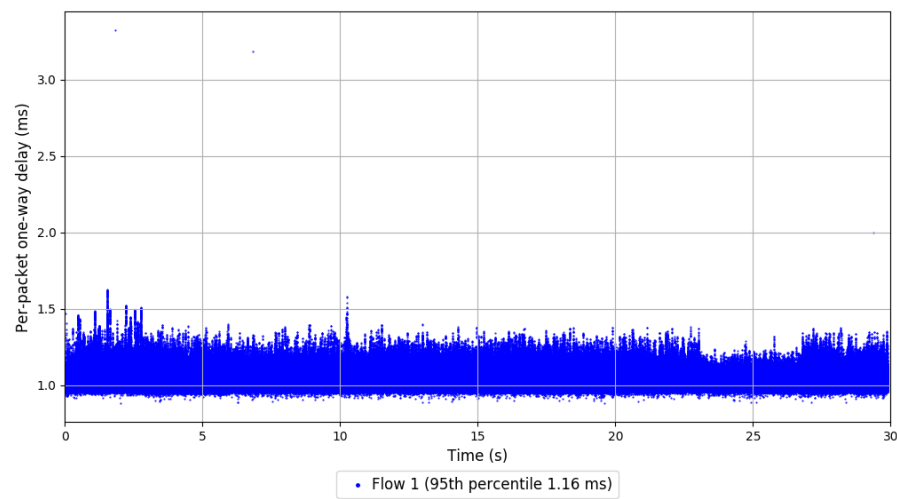
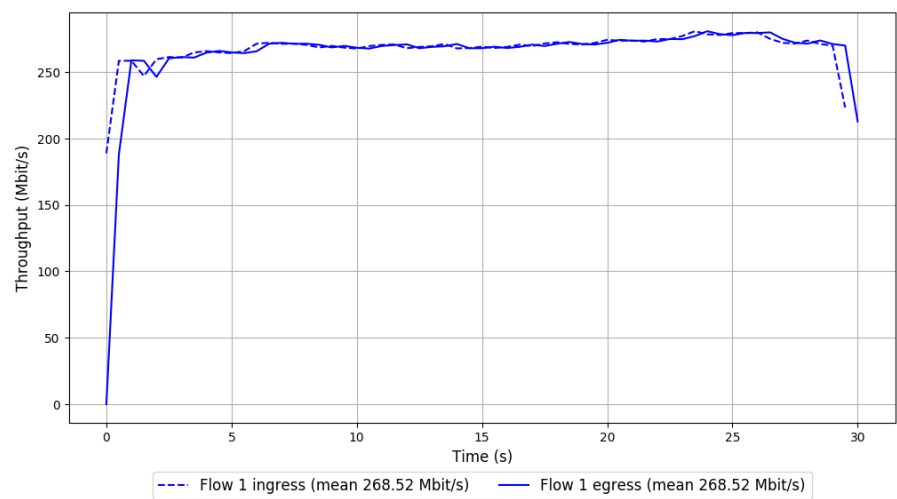
-- Flow 1:

Average throughput: 268.52 Mbit/s

95th percentile per-packet one-way delay: 1.156 ms

Loss rate: 0.07%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-22 12:08:23

End at: 2018-05-22 12:08:53

Local clock offset: 0.333 ms

Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-05-22 15:13:57

Datalink statistics

-- Total of 1 flow:

Average throughput: 266.41 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.06%

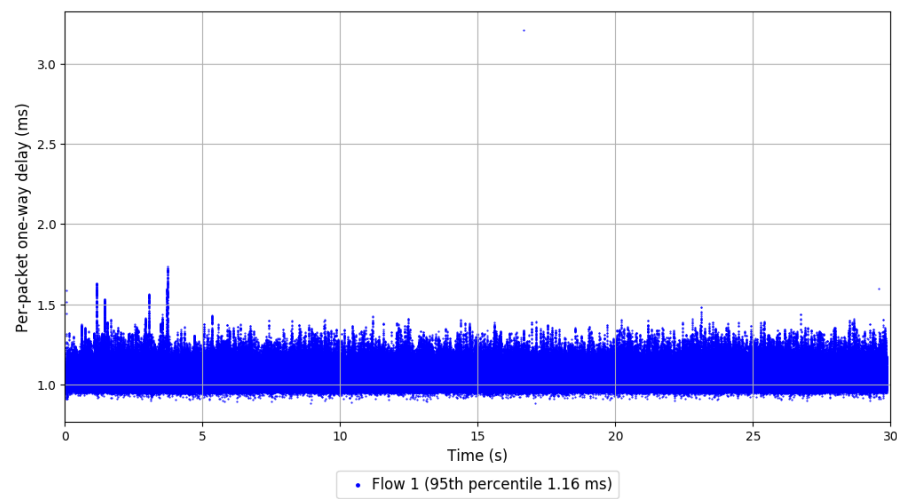
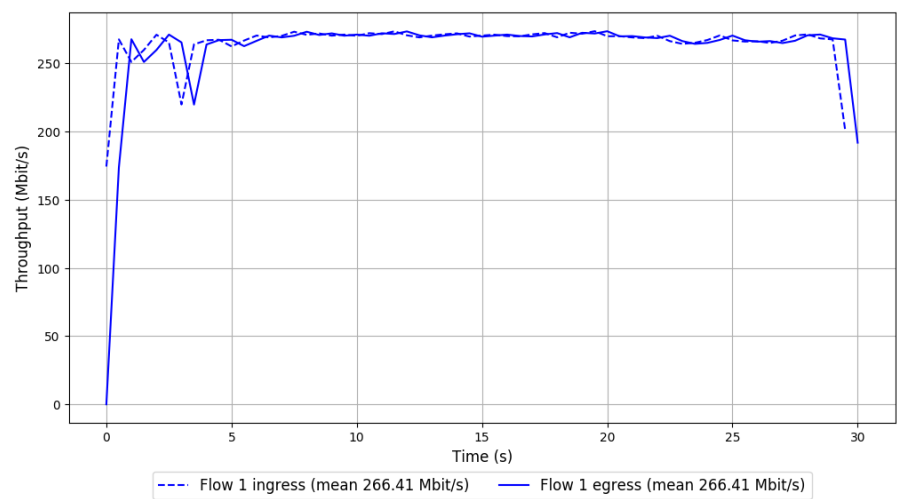
-- Flow 1:

Average throughput: 266.41 Mbit/s

95th percentile per-packet one-way delay: 1.164 ms

Loss rate: 0.06%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-22 12:32:12

End at: 2018-05-22 12:32:42

Local clock offset: 0.375 ms

Remote clock offset: -0.402 ms

Below is generated by plot.py at 2018-05-22 15:14:54

Datalink statistics

-- Total of 1 flow:

Average throughput: 265.62 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.06%

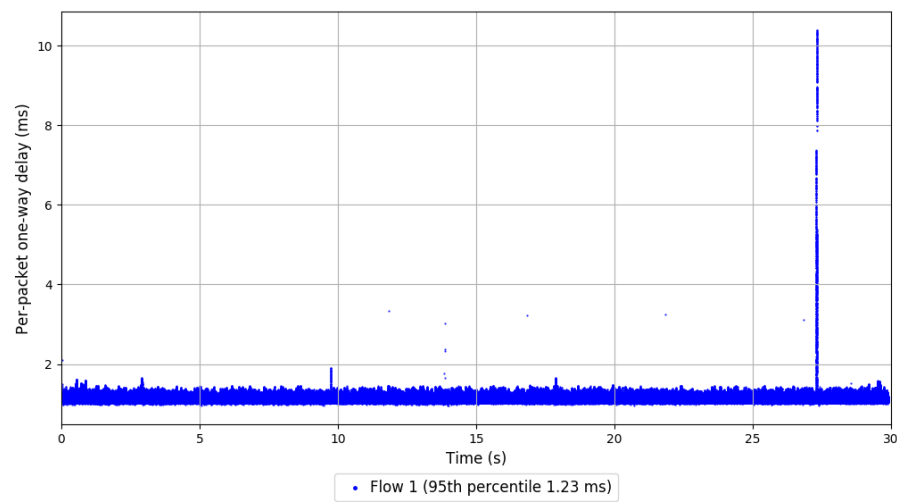
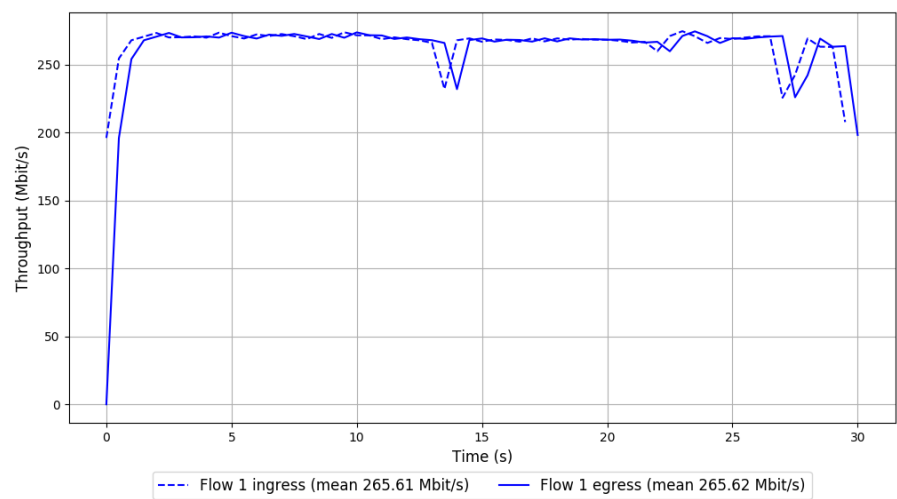
-- Flow 1:

Average throughput: 265.62 Mbit/s

95th percentile per-packet one-way delay: 1.233 ms

Loss rate: 0.06%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-22 12:56:03

End at: 2018-05-22 12:56:33

Local clock offset: 0.416 ms

Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-05-22 15:15:36

Datalink statistics

-- Total of 1 flow:

Average throughput: 273.93 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.07%

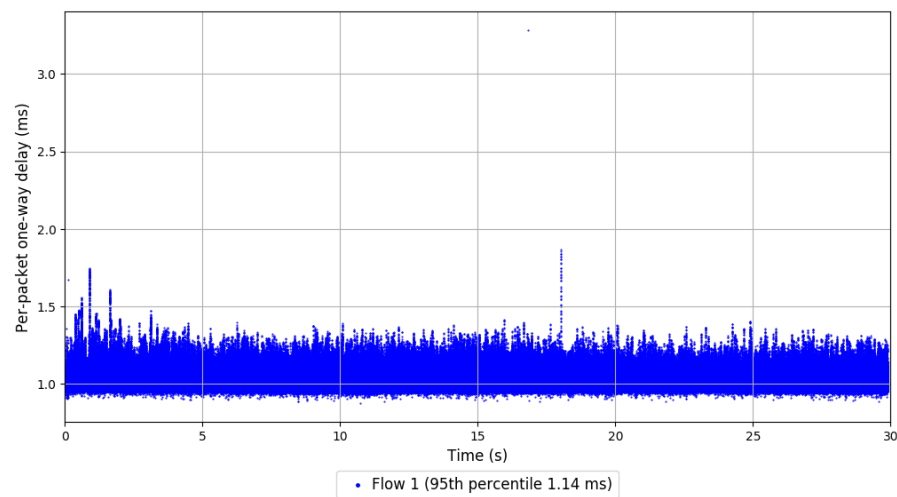
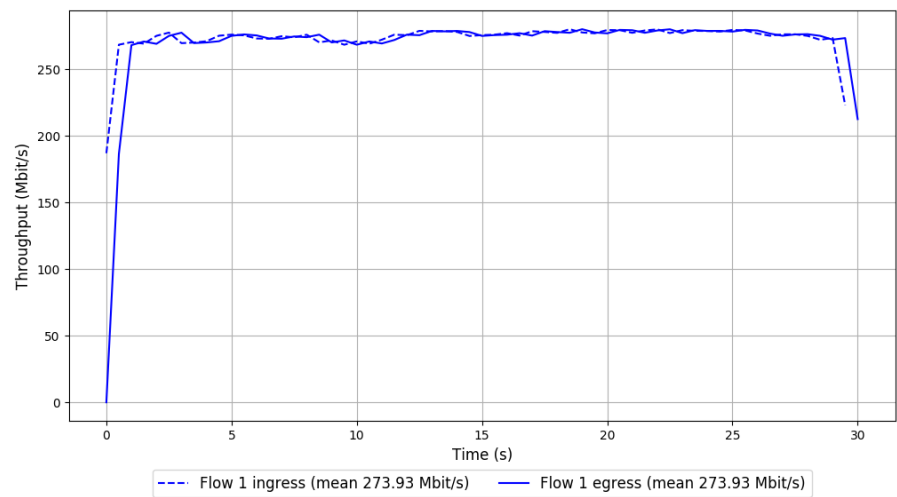
-- Flow 1:

Average throughput: 273.93 Mbit/s

95th percentile per-packet one-way delay: 1.142 ms

Loss rate: 0.07%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-22 13:19:43

End at: 2018-05-22 13:20:13

Local clock offset: 0.479 ms

Remote clock offset: -0.135 ms

Below is generated by plot.py at 2018-05-22 15:19:18

Datalink statistics

-- Total of 1 flow:

Average throughput: 260.47 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.05%

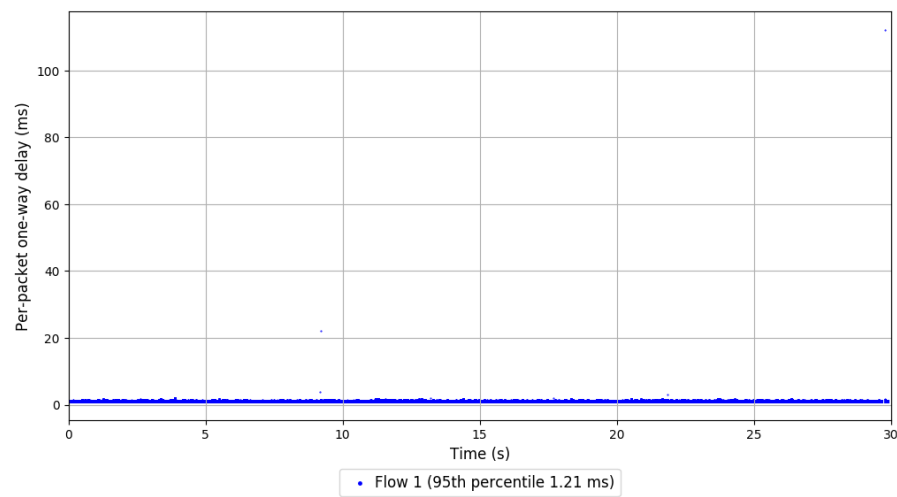
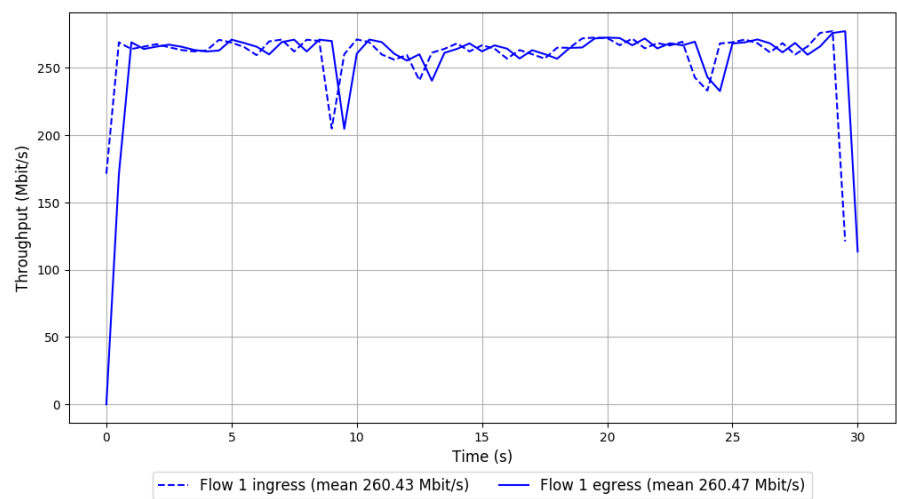
-- Flow 1:

Average throughput: 260.47 Mbit/s

95th percentile per-packet one-way delay: 1.205 ms

Loss rate: 0.05%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-22 13:43:44

End at: 2018-05-22 13:44:14

Local clock offset: 0.433 ms

Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-05-22 15:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 268.20 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.07%

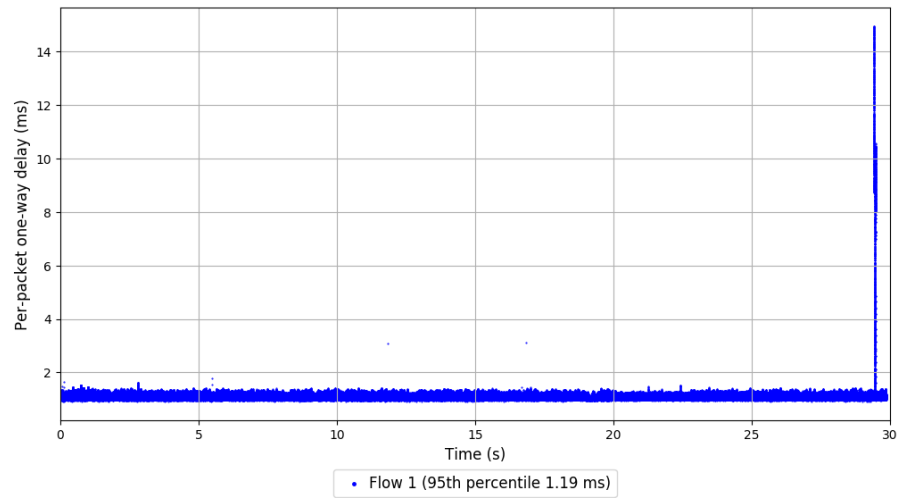
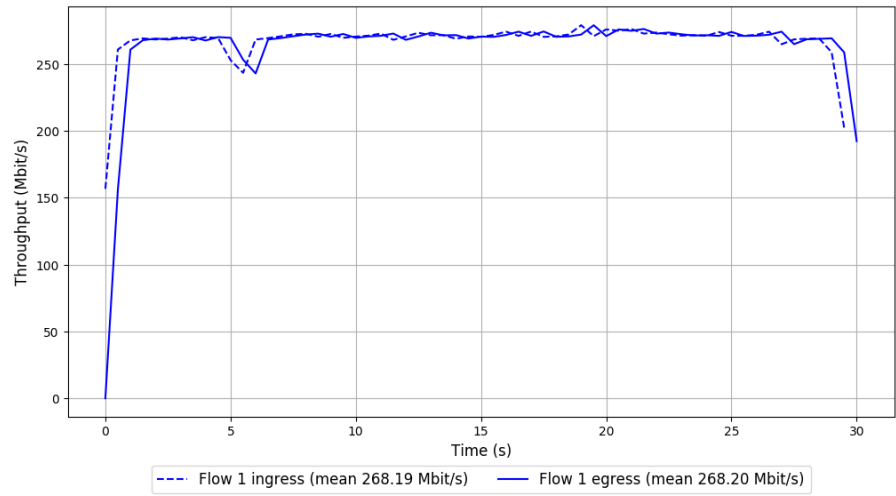
-- Flow 1:

Average throughput: 268.20 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.07%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-22 10:14:42

End at: 2018-05-22 10:15:12

Local clock offset: 0.188 ms

Remote clock offset: 3.991 ms

Below is generated by plot.py at 2018-05-22 15:19:35

Datalink statistics

-- Total of 1 flow:

Average throughput: 359.44 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.07%

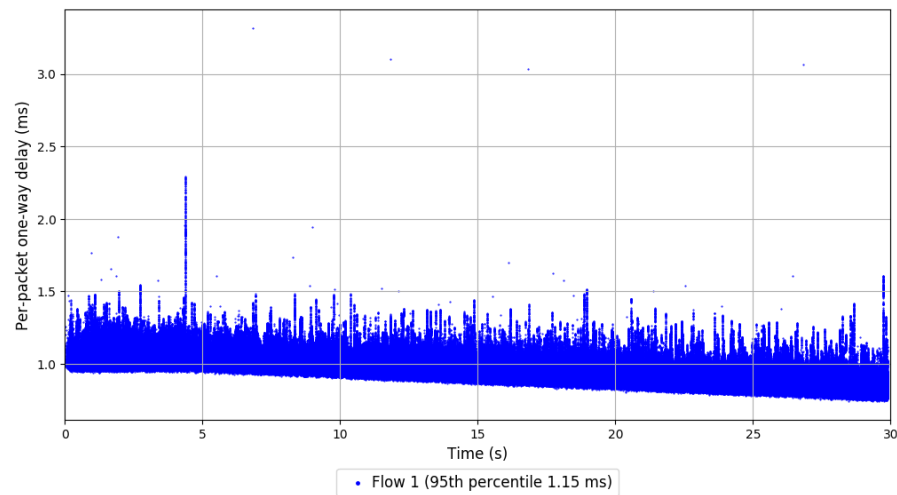
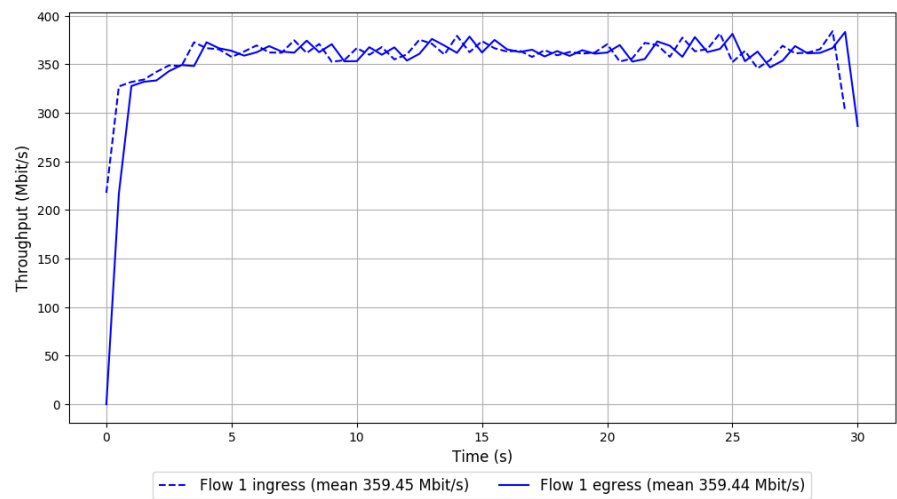
-- Flow 1:

Average throughput: 359.44 Mbit/s

95th percentile per-packet one-way delay: 1.145 ms

Loss rate: 0.07%

Run 1: Report of TCP Vegas — Data Link

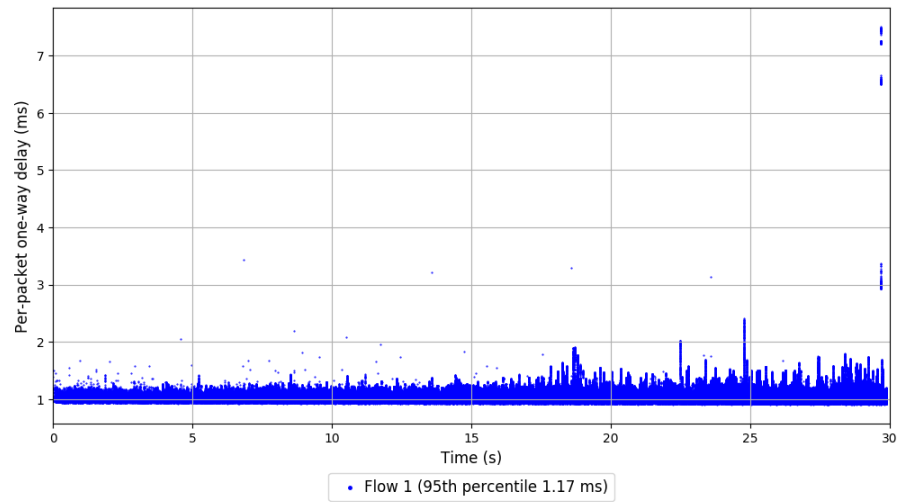
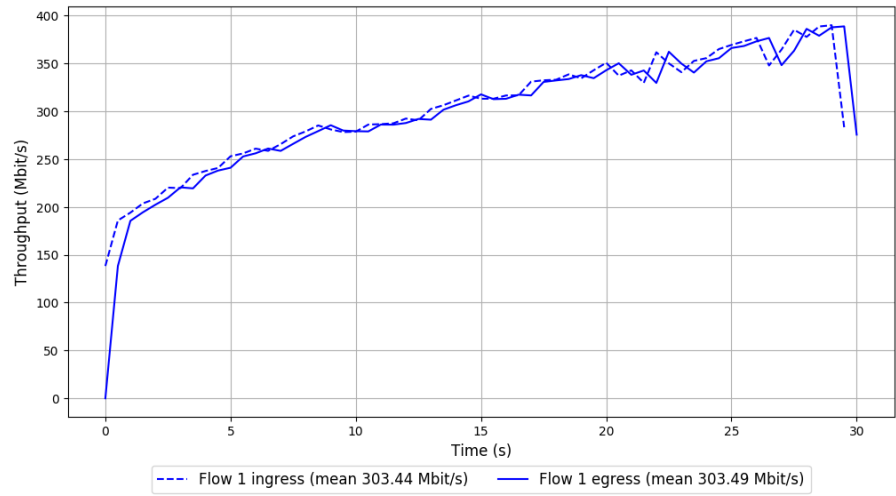


Run 2: Statistics of TCP Vegas

Start at: 2018-05-22 10:38:53
End at: 2018-05-22 10:39:23
Local clock offset: 0.333 ms
Remote clock offset: -0.174 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 303.49 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 303.49 Mbit/s
95th percentile per-packet one-way delay: 1.174 ms
Loss rate: 0.05%

Run 2: Report of TCP Vegas — Data Link

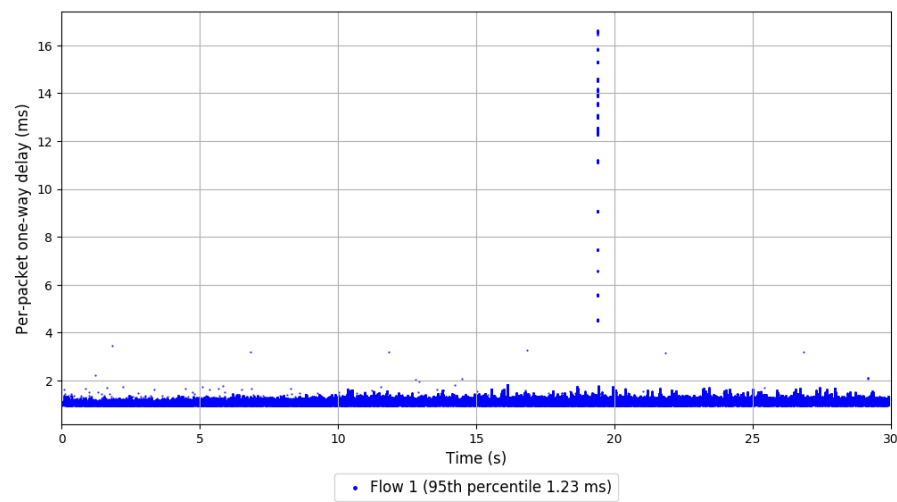
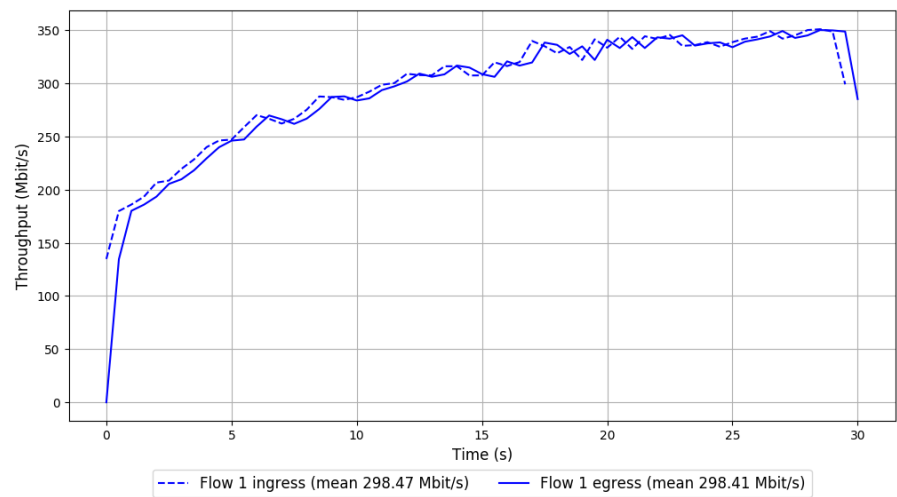


Run 3: Statistics of TCP Vegas

Start at: 2018-05-22 11:02:52
End at: 2018-05-22 11:03:22
Local clock offset: 0.22 ms
Remote clock offset: -0.257 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 298.41 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 298.41 Mbit/s
95th percentile per-packet one-way delay: 1.231 ms
Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link

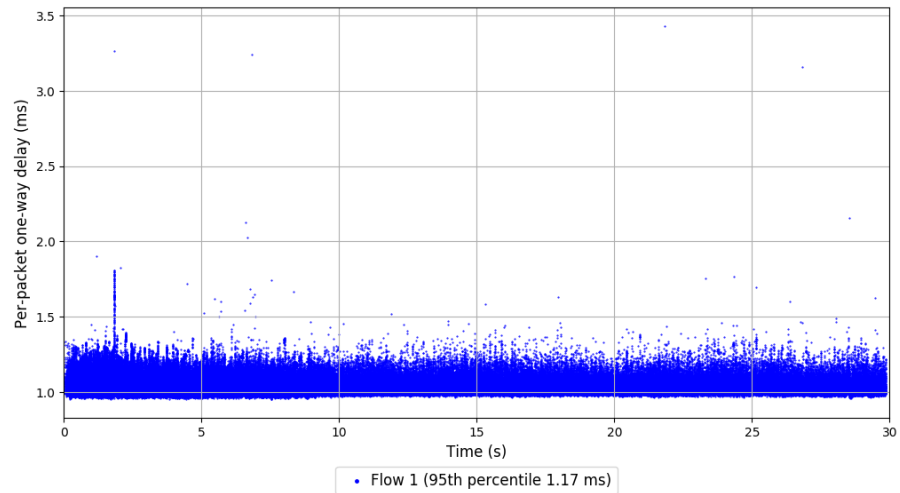
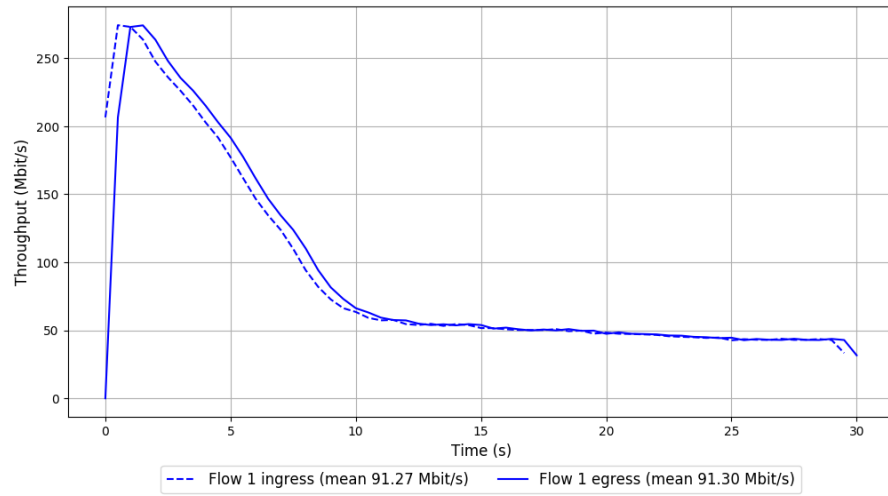


Run 4: Statistics of TCP Vegas

Start at: 2018-05-22 11:26:51
End at: 2018-05-22 11:27:21
Local clock offset: 0.037 ms
Remote clock offset: -0.297 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 91.30 Mbit/s
95th percentile per-packet one-way delay: 1.171 ms
Loss rate: 0.03%

Run 4: Report of TCP Vegas — Data Link

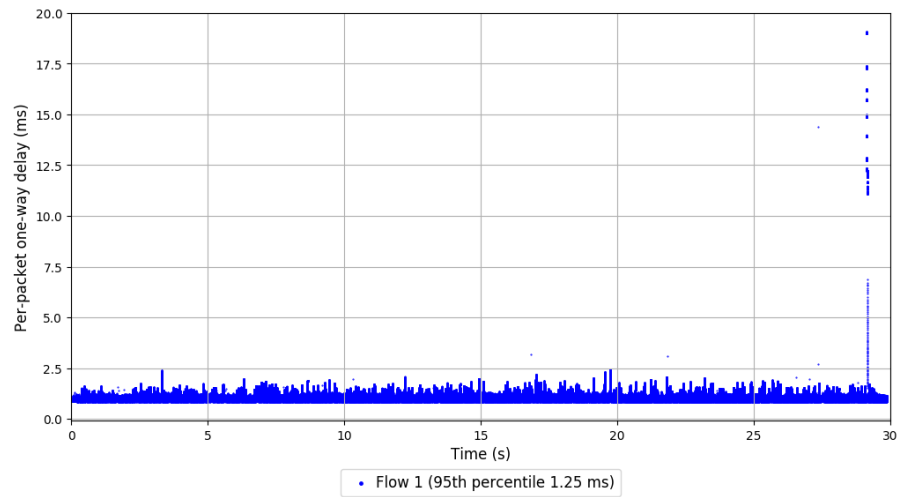
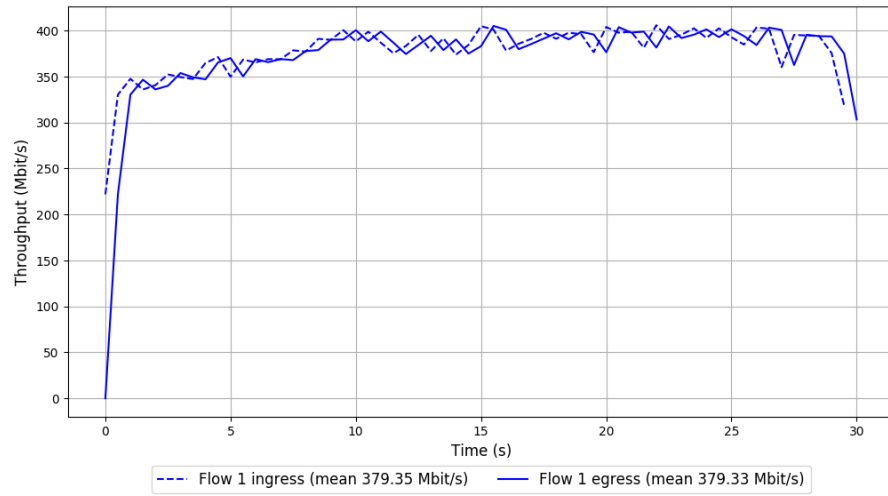


Run 5: Statistics of TCP Vegas

Start at: 2018-05-22 11:50:28
End at: 2018-05-22 11:50:58
Local clock offset: 0.212 ms
Remote clock offset: -0.272 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 379.33 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 379.33 Mbit/s
95th percentile per-packet one-way delay: 1.245 ms
Loss rate: 0.07%

Run 5: Report of TCP Vegas — Data Link

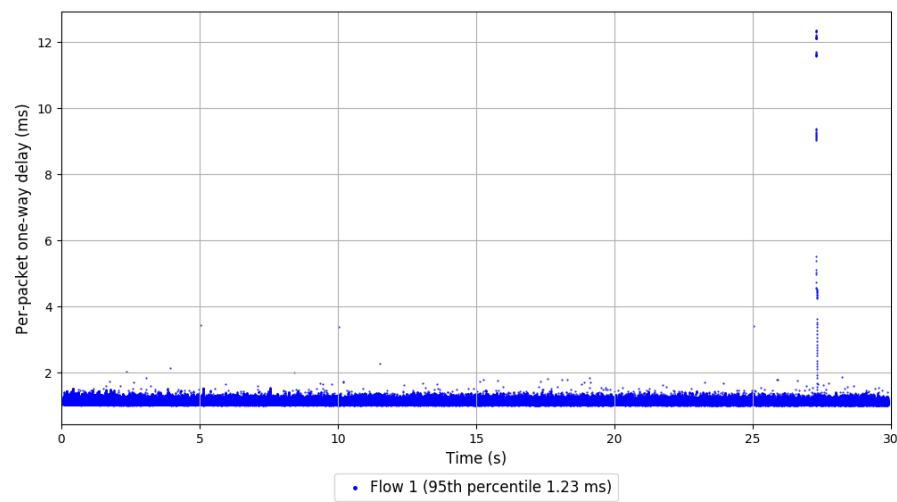
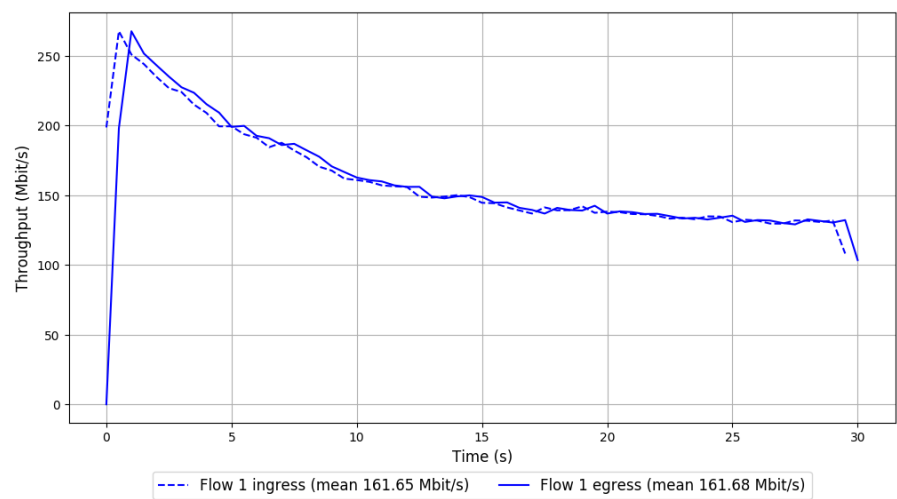


Run 6: Statistics of TCP Vegas

Start at: 2018-05-22 12:14:28
End at: 2018-05-22 12:14:58
Local clock offset: 0.339 ms
Remote clock offset: -0.223 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 161.68 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 161.68 Mbit/s
95th percentile per-packet one-way delay: 1.234 ms
Loss rate: 0.05%

Run 6: Report of TCP Vegas — Data Link

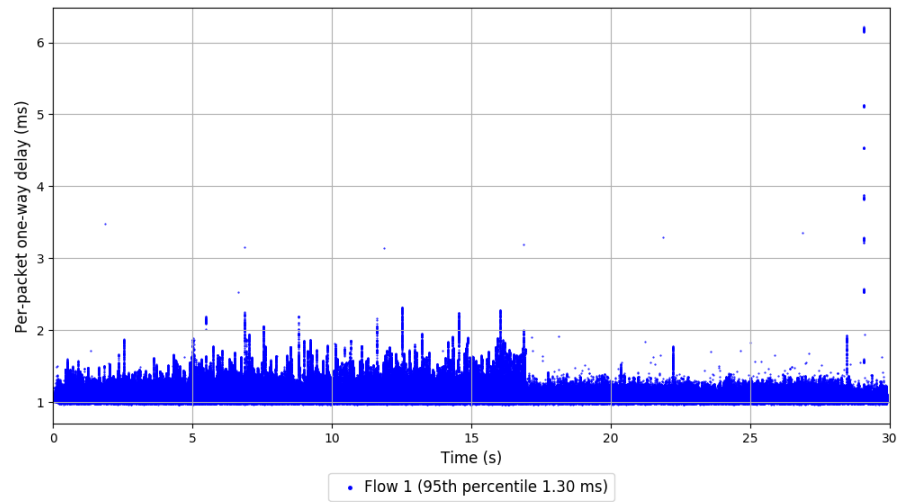
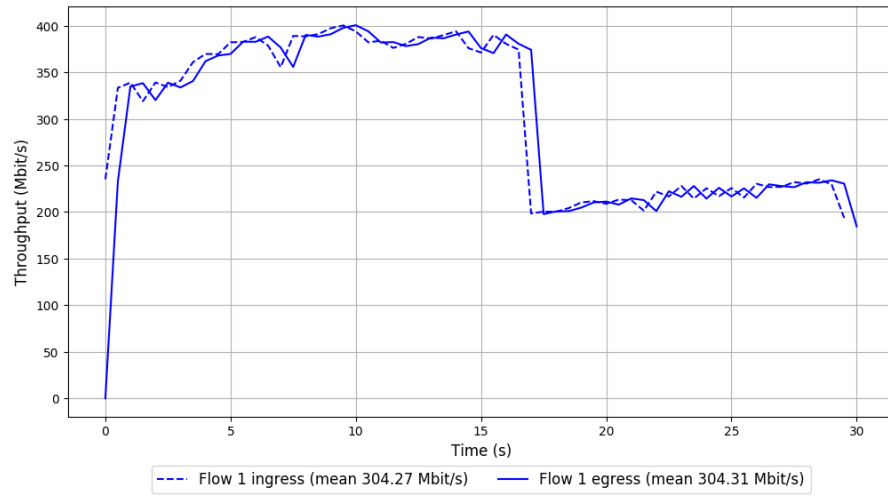


Run 7: Statistics of TCP Vegas

Start at: 2018-05-22 12:38:16
End at: 2018-05-22 12:38:46
Local clock offset: 0.396 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 304.31 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.05%
-- Flow 1:
Average throughput: 304.31 Mbit/s
95th percentile per-packet one-way delay: 1.302 ms
Loss rate: 0.05%

Run 7: Report of TCP Vegas — Data Link

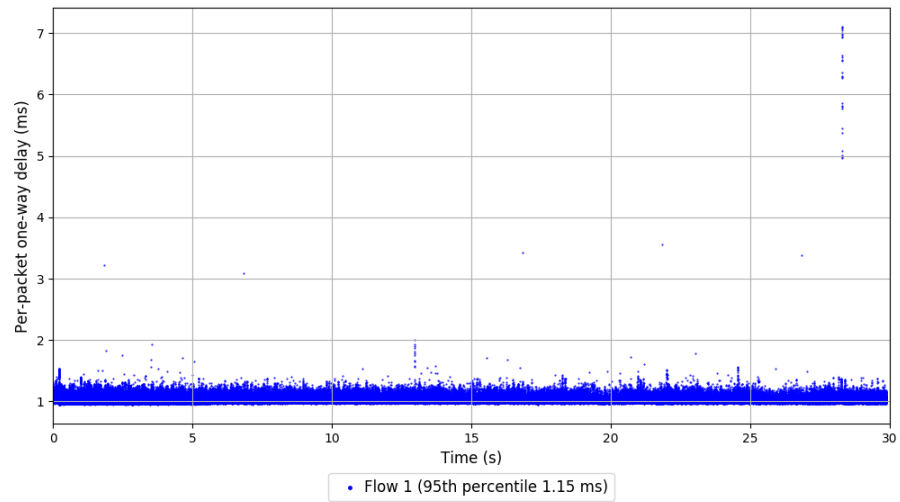
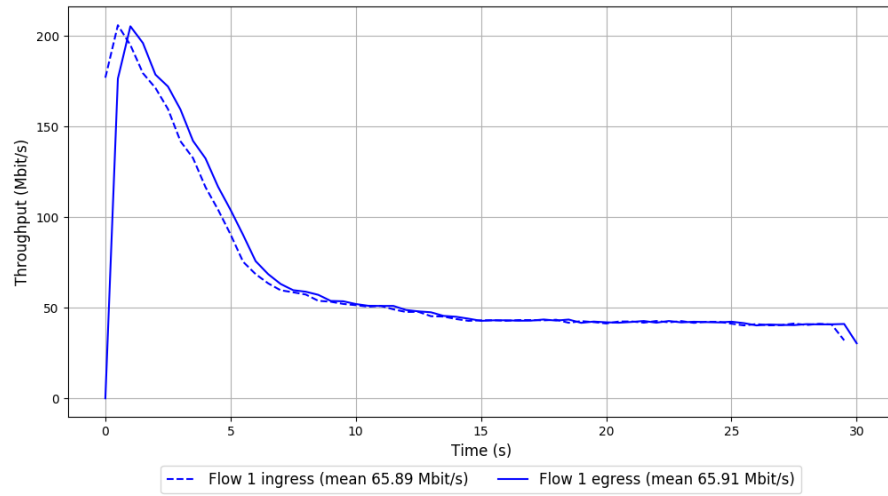


Run 8: Statistics of TCP Vegas

Start at: 2018-05-22 13:02:08
End at: 2018-05-22 13:02:38
Local clock offset: 0.441 ms
Remote clock offset: -0.426 ms

Below is generated by plot.py at 2018-05-22 15:19:35
Datalink statistics
-- Total of 1 flow:
Average throughput: 65.91 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 65.91 Mbit/s
95th percentile per-packet one-way delay: 1.153 ms
Loss rate: 0.04%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-22 13:25:46

End at: 2018-05-22 13:26:16

Local clock offset: 0.397 ms

Remote clock offset: -0.089 ms

Below is generated by plot.py at 2018-05-22 15:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 358.03 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.07%

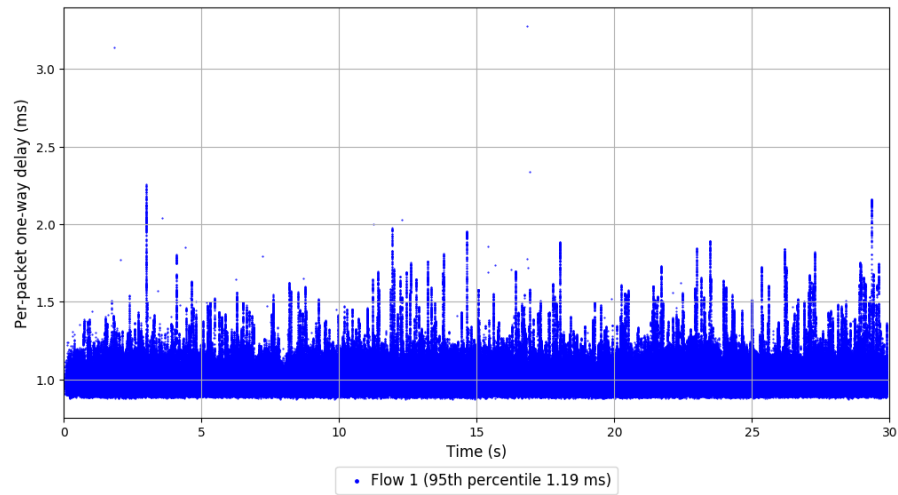
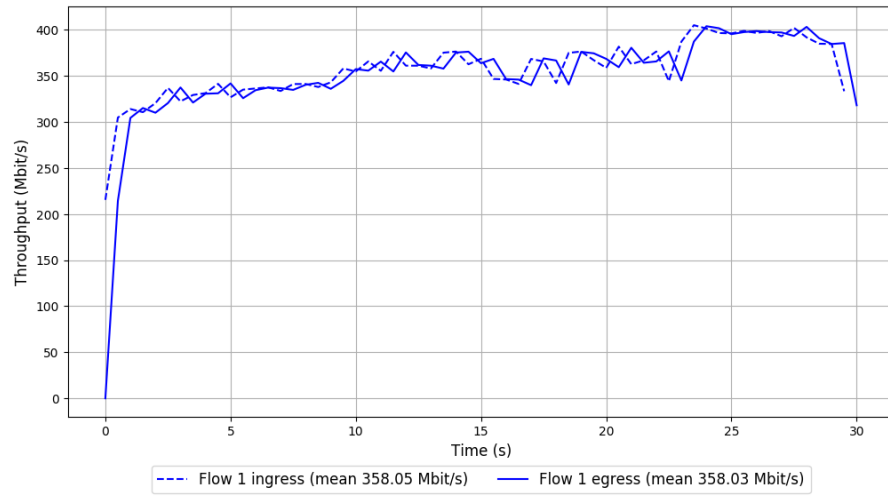
-- Flow 1:

Average throughput: 358.03 Mbit/s

95th percentile per-packet one-way delay: 1.185 ms

Loss rate: 0.07%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-22 13:49:59

End at: 2018-05-22 13:50:29

Local clock offset: 0.421 ms

Remote clock offset: -0.08 ms

Below is generated by plot.py at 2018-05-22 15:21:38

Datalink statistics

-- Total of 1 flow:

Average throughput: 64.78 Mbit/s

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

Loss rate: 0.04%

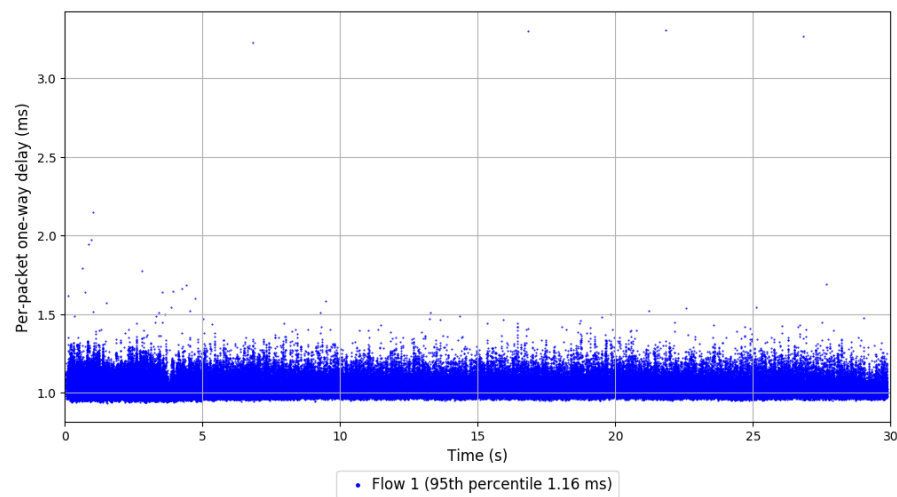
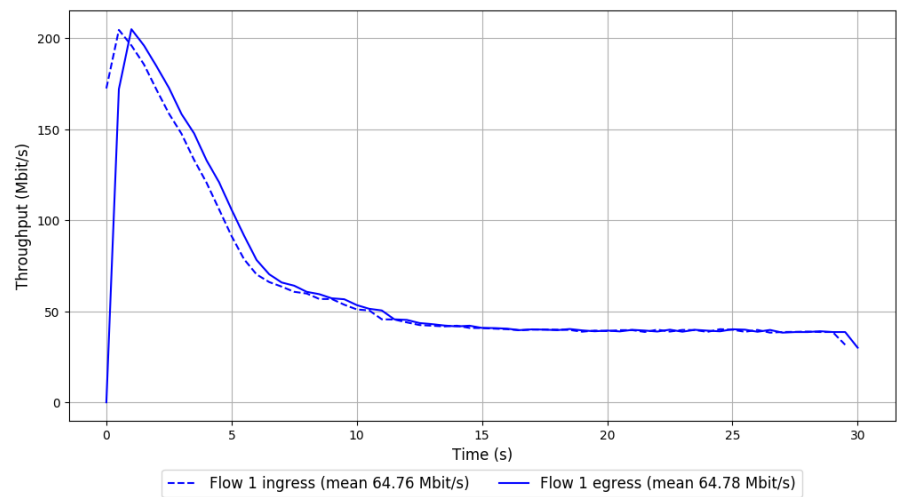
-- Flow 1:

Average throughput: 64.78 Mbit/s

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

Loss rate: 0.04%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-22 09:59:17

End at: 2018-05-22 09:59:47

Local clock offset: 0.258 ms

Remote clock offset: 3.109 ms

Below is generated by plot.py at 2018-05-22 15:22:04

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.00 Mbit/s

95th percentile per-packet one-way delay: 4.804 ms

Loss rate: 0.01%

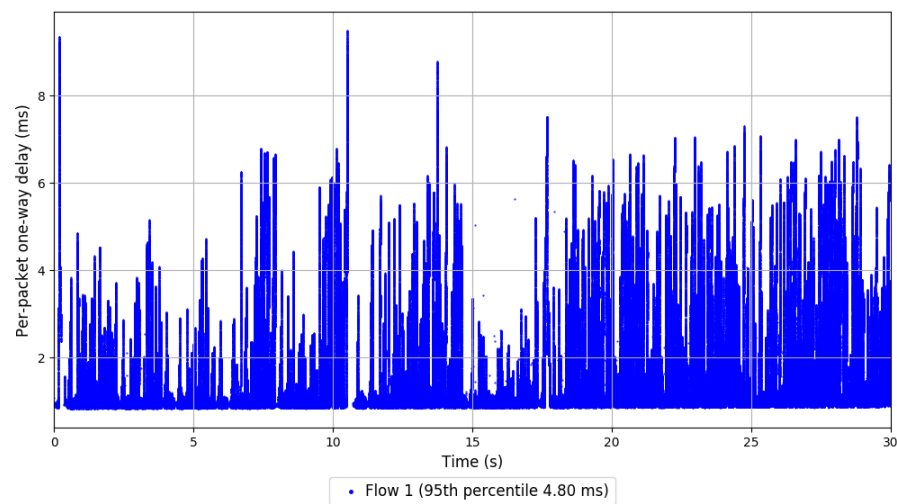
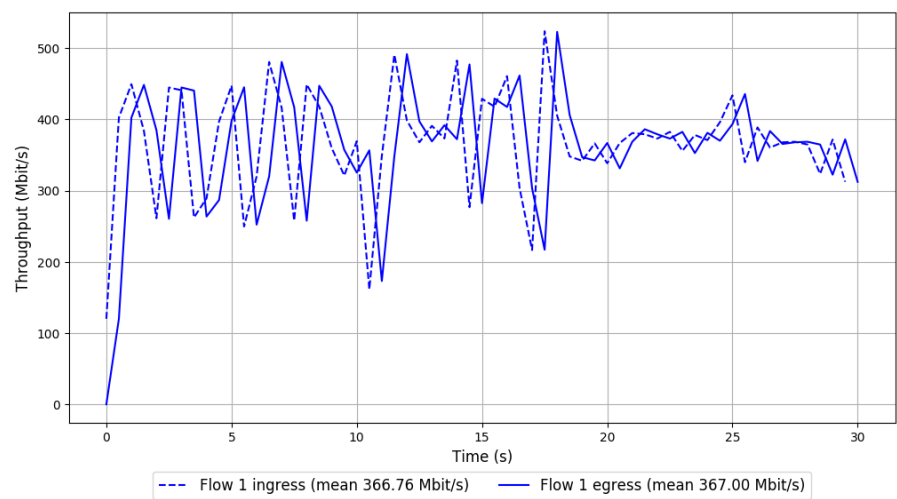
-- Flow 1:

Average throughput: 367.00 Mbit/s

95th percentile per-packet one-way delay: 4.804 ms

Loss rate: 0.01%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-22 10:23:24

End at: 2018-05-22 10:23:54

Local clock offset: 0.169 ms

Remote clock offset: 1.292 ms

Below is generated by plot.py at 2018-05-22 15:22:24

Datalink statistics

-- Total of 1 flow:

Average throughput: 352.72 Mbit/s

95th percentile per-packet one-way delay: 3.904 ms

Loss rate: 0.11%

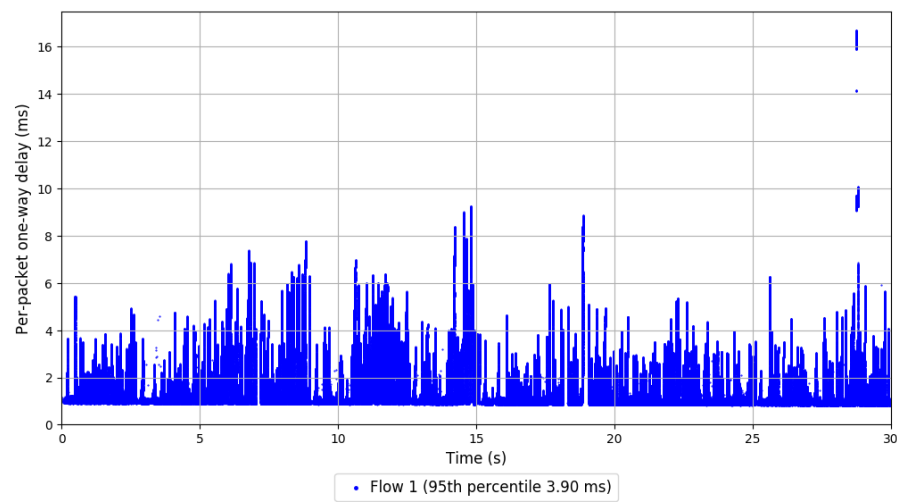
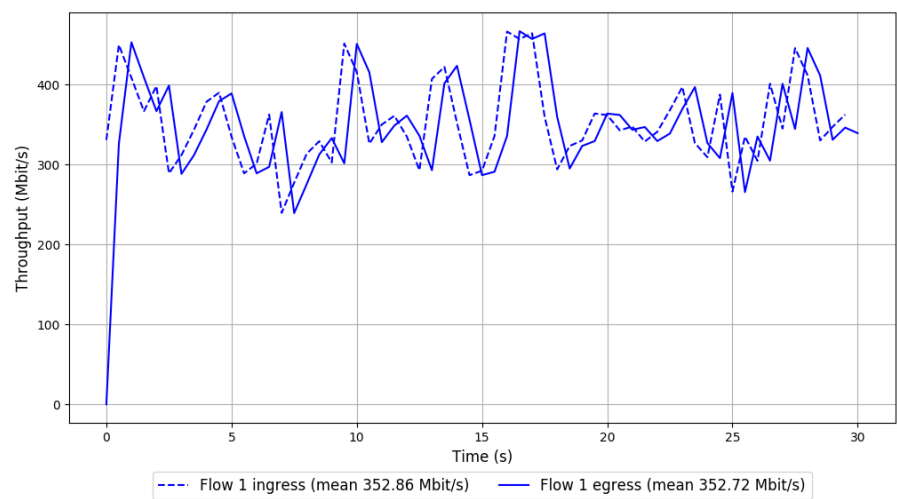
-- Flow 1:

Average throughput: 352.72 Mbit/s

95th percentile per-packet one-way delay: 3.904 ms

Loss rate: 0.11%

Run 2: Report of Verus — Data Link

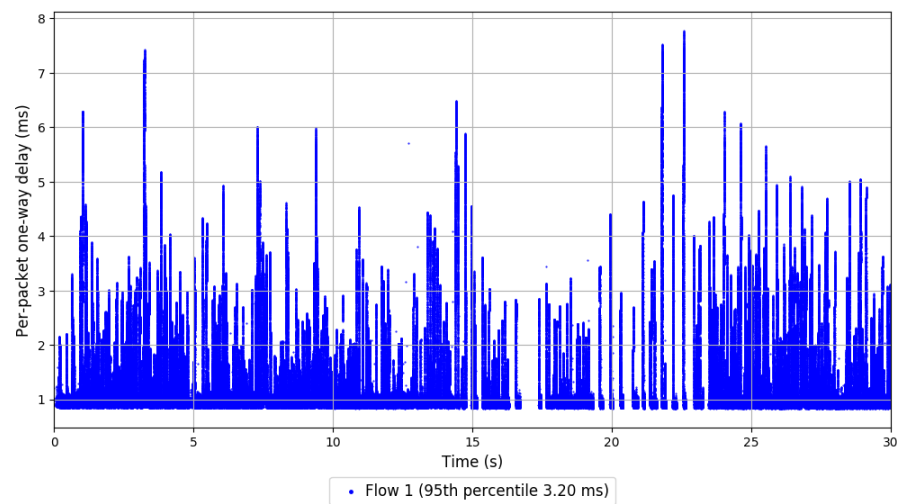
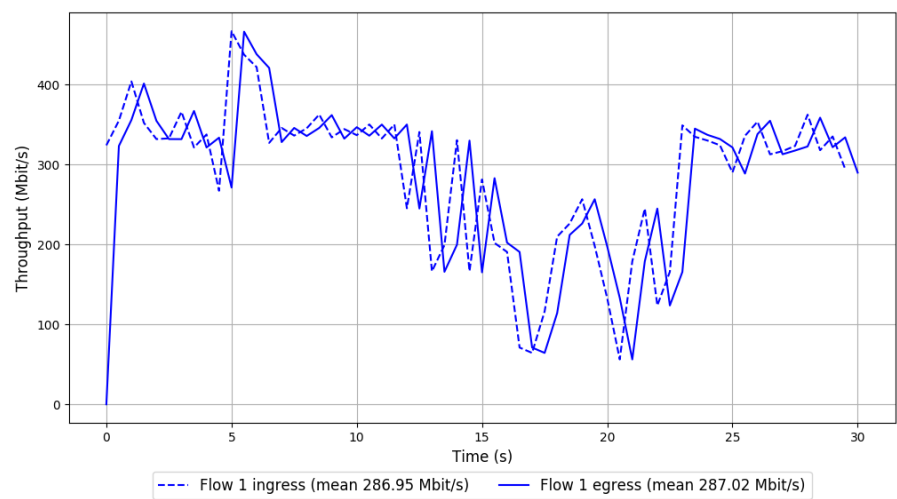


Run 3: Statistics of Verus

Start at: 2018-05-22 10:47:25
End at: 2018-05-22 10:47:55
Local clock offset: 0.269 ms
Remote clock offset: -0.489 ms

Below is generated by plot.py at 2018-05-22 15:22:24
Datalink statistics
-- Total of 1 flow:
Average throughput: 287.02 Mbit/s
95th percentile per-packet one-way delay: 3.200 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 287.02 Mbit/s
95th percentile per-packet one-way delay: 3.200 ms
Loss rate: 0.04%

Run 3: Report of Verus — Data Link

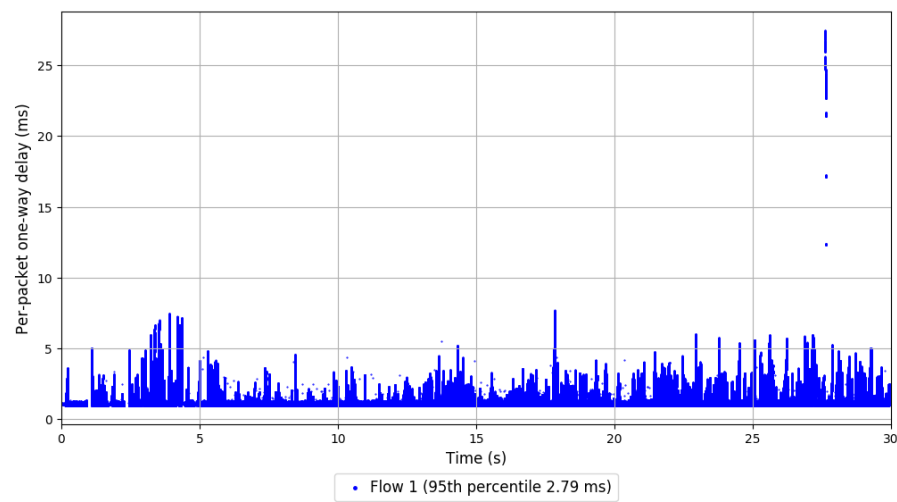
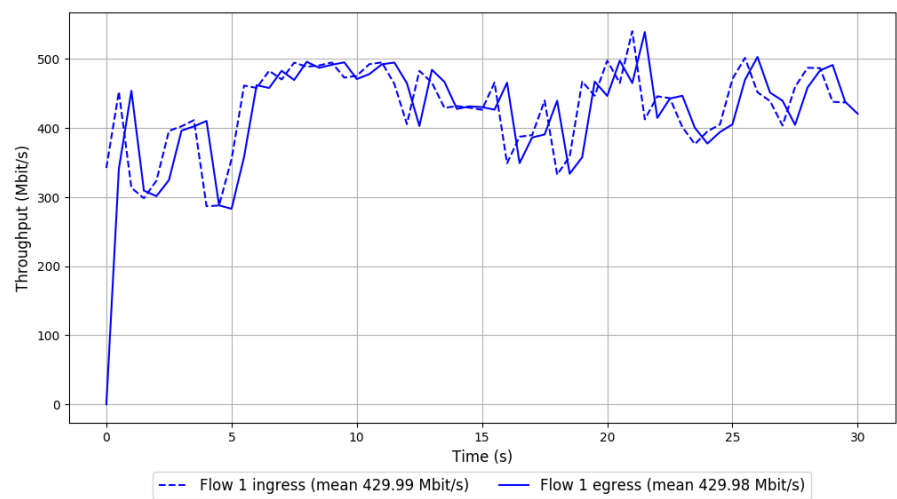


Run 4: Statistics of Verus

Start at: 2018-05-22 11:11:29
End at: 2018-05-22 11:11:59
Local clock offset: 0.139 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-05-22 15:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 429.98 Mbit/s
95th percentile per-packet one-way delay: 2.795 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 429.98 Mbit/s
95th percentile per-packet one-way delay: 2.795 ms
Loss rate: 0.06%

Run 4: Report of Verus — Data Link

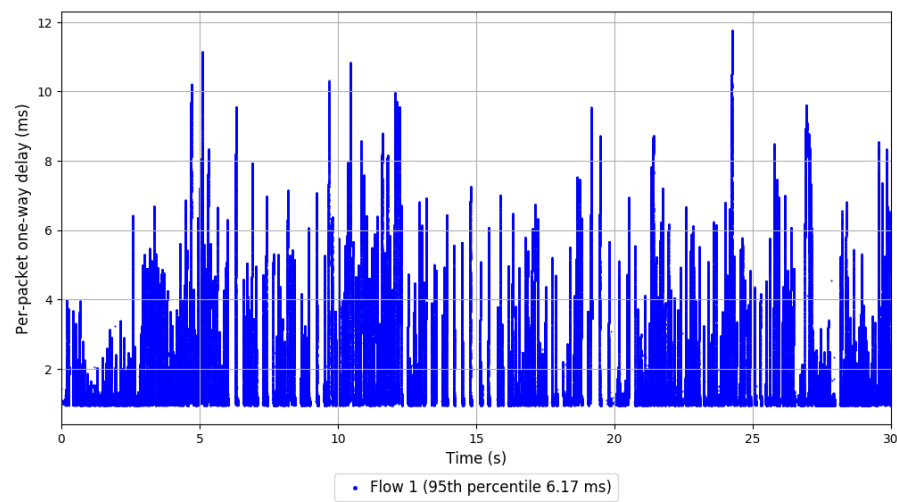
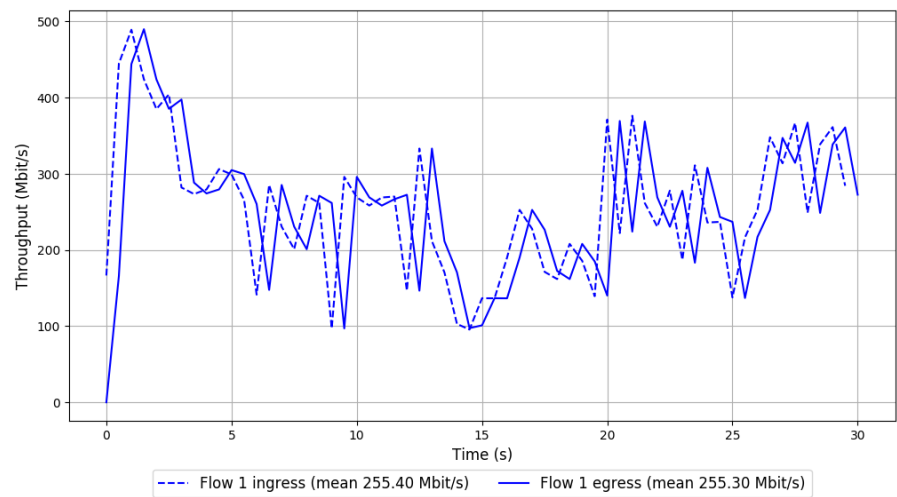


Run 5: Statistics of Verus

Start at: 2018-05-22 11:35:25
End at: 2018-05-22 11:35:55
Local clock offset: 0.229 ms
Remote clock offset: -0.224 ms

Below is generated by plot.py at 2018-05-22 15:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 255.30 Mbit/s
95th percentile per-packet one-way delay: 6.172 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 255.30 Mbit/s
95th percentile per-packet one-way delay: 6.172 ms
Loss rate: 0.08%

Run 5: Report of Verus — Data Link

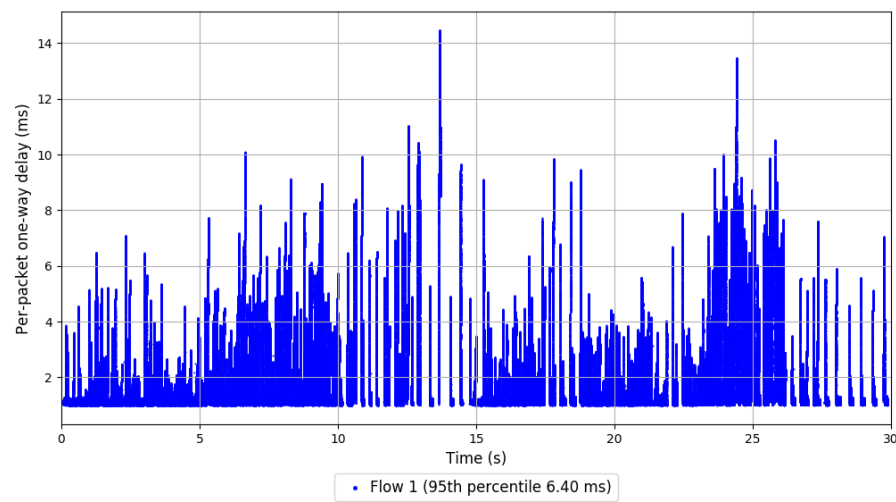
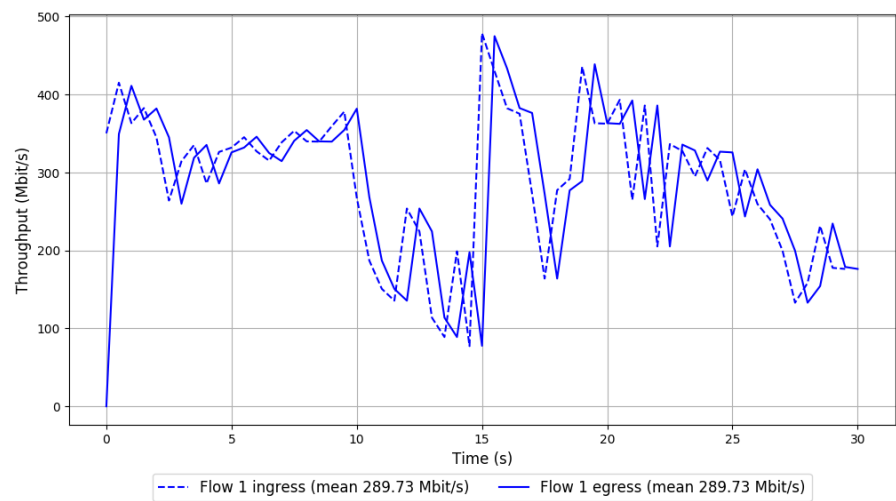


Run 6: Statistics of Verus

Start at: 2018-05-22 11:59:10
End at: 2018-05-22 11:59:40
Local clock offset: 0.327 ms
Remote clock offset: -0.306 ms

Below is generated by plot.py at 2018-05-22 15:24:22
Datalink statistics
-- Total of 1 flow:
Average throughput: 289.73 Mbit/s
95th percentile per-packet one-way delay: 6.397 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 289.73 Mbit/s
95th percentile per-packet one-way delay: 6.397 ms
Loss rate: 0.00%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-22 12:22:54

End at: 2018-05-22 12:23:24

Local clock offset: 0.347 ms

Remote clock offset: -0.25 ms

Below is generated by plot.py at 2018-05-22 15:24:22

Datalink statistics

-- Total of 1 flow:

Average throughput: 297.95 Mbit/s

95th percentile per-packet one-way delay: 3.592 ms

Loss rate: 0.02%

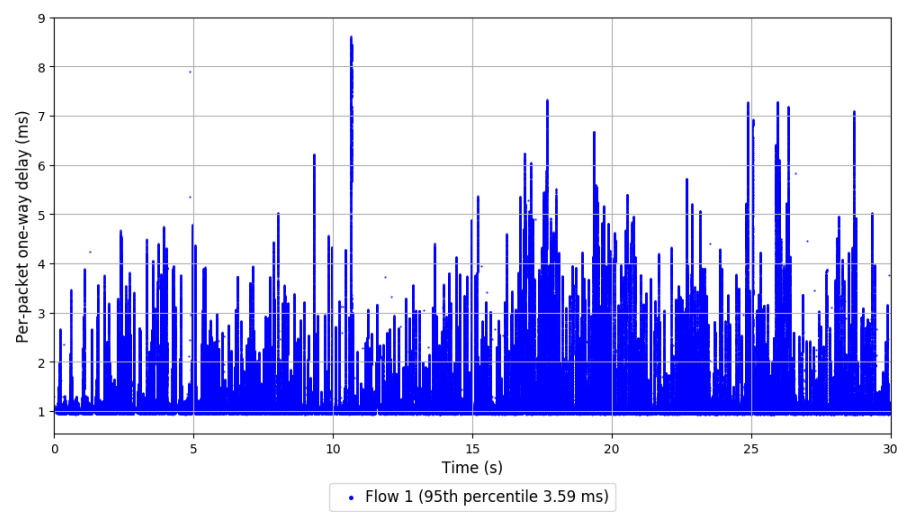
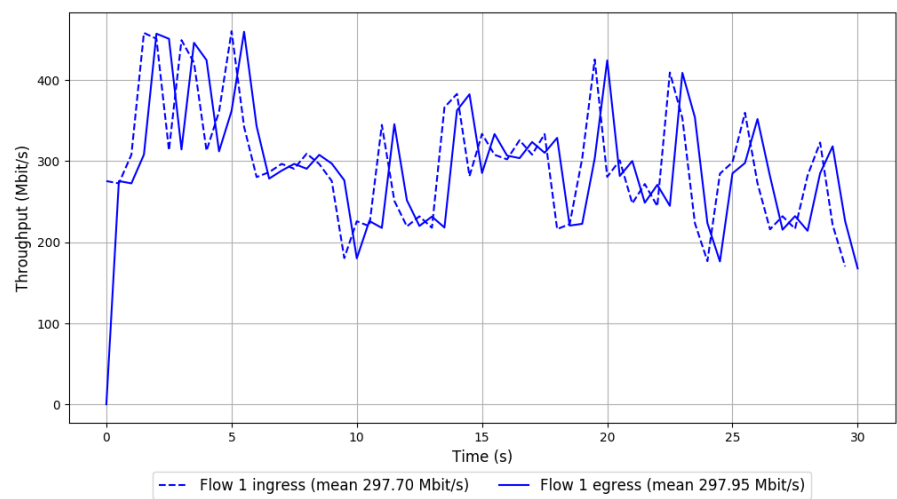
-- Flow 1:

Average throughput: 297.95 Mbit/s

95th percentile per-packet one-way delay: 3.592 ms

Loss rate: 0.02%

Run 7: Report of Verus — Data Link

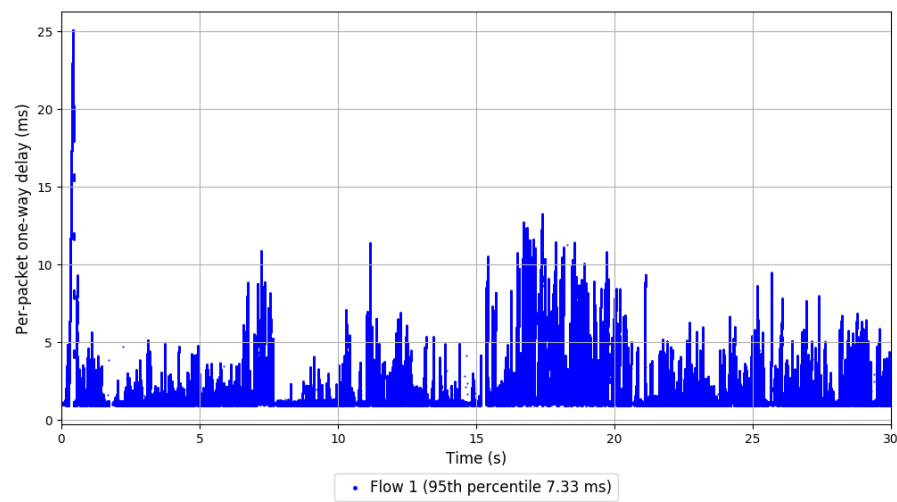
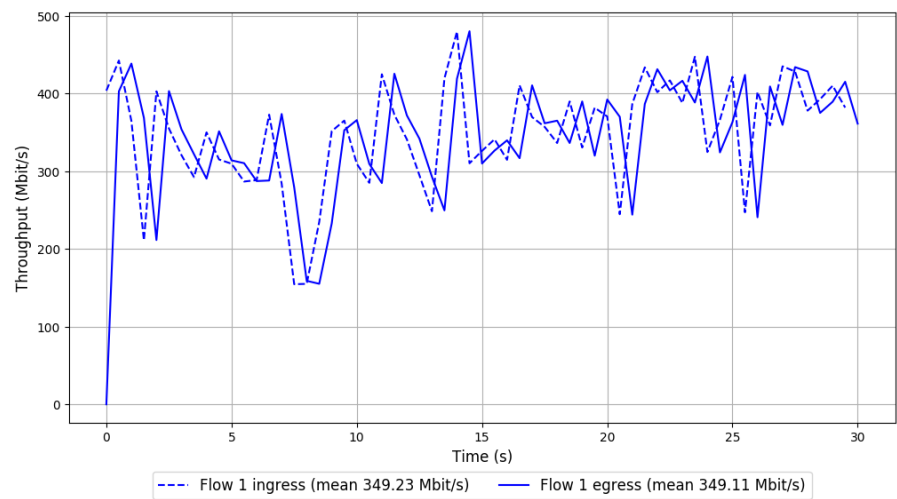


Run 8: Statistics of Verus

Start at: 2018-05-22 12:46:50
End at: 2018-05-22 12:47:20
Local clock offset: 0.319 ms
Remote clock offset: -0.384 ms

Below is generated by plot.py at 2018-05-22 15:25:47
Datalink statistics
-- Total of 1 flow:
Average throughput: 349.11 Mbit/s
95th percentile per-packet one-way delay: 7.325 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 349.11 Mbit/s
95th percentile per-packet one-way delay: 7.325 ms
Loss rate: 0.11%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-22 13:10:31

End at: 2018-05-22 13:11:01

Local clock offset: 0.368 ms

Remote clock offset: -0.32 ms

Below is generated by plot.py at 2018-05-22 15:25:47

Datalink statistics

-- Total of 1 flow:

Average throughput: 311.79 Mbit/s

95th percentile per-packet one-way delay: 3.476 ms

Loss rate: 0.00%

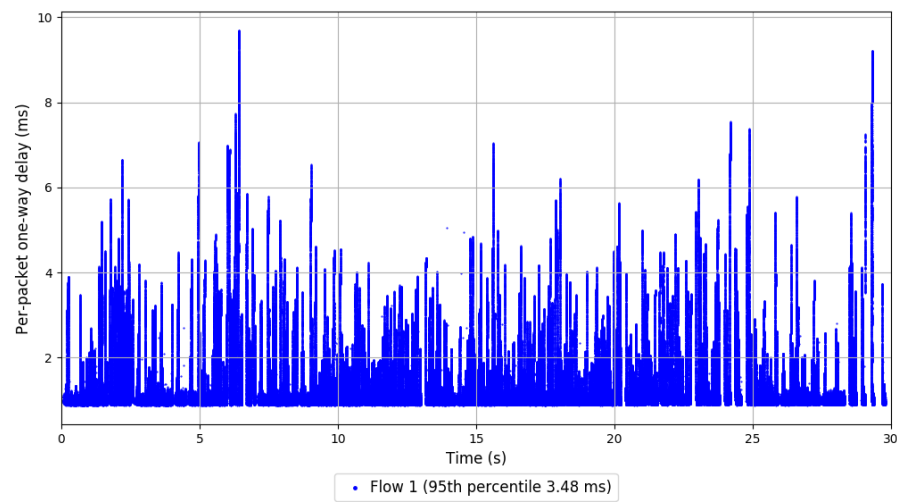
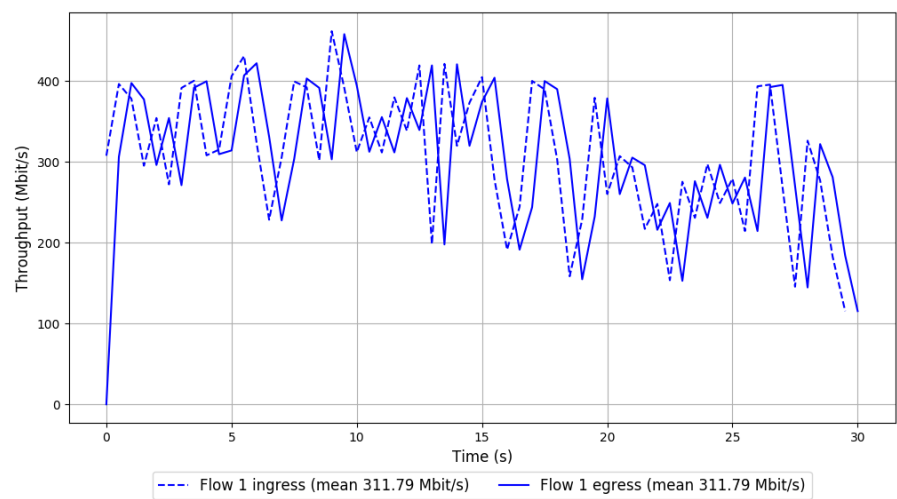
-- Flow 1:

Average throughput: 311.79 Mbit/s

95th percentile per-packet one-way delay: 3.476 ms

Loss rate: 0.00%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-22 13:34:24

End at: 2018-05-22 13:34:54

Local clock offset: 0.456 ms

Remote clock offset: -0.1 ms

Below is generated by plot.py at 2018-05-22 15:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 357.05 Mbit/s

95th percentile per-packet one-way delay: 5.369 ms

Loss rate: 0.07%

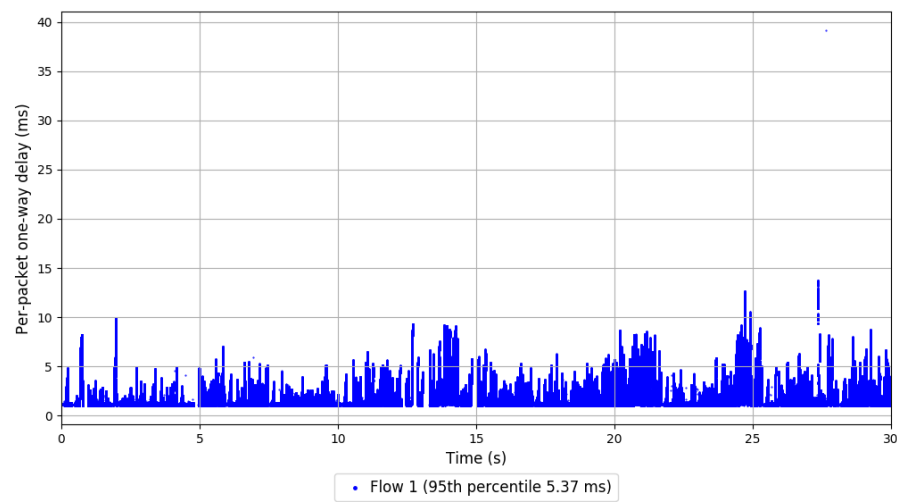
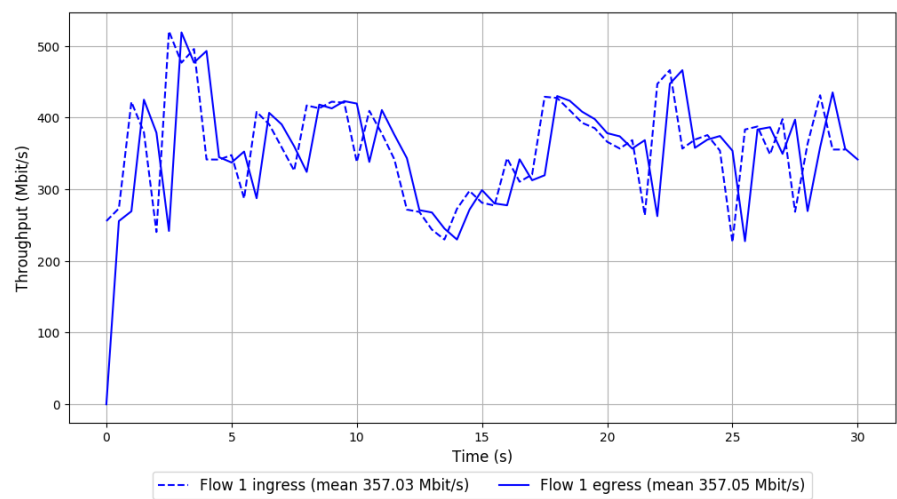
-- Flow 1:

Average throughput: 357.05 Mbit/s

95th percentile per-packet one-way delay: 5.369 ms

Loss rate: 0.07%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-22 10:07:07

End at: 2018-05-22 10:07:38

Local clock offset: 0.245 ms

Remote clock offset: 3.571 ms

Below is generated by plot.py at 2018-05-22 15:26:26

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.05 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.09%

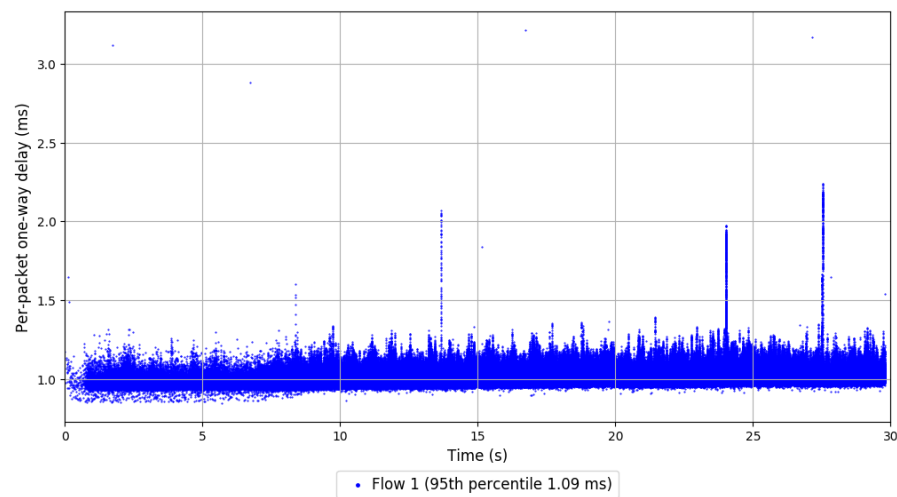
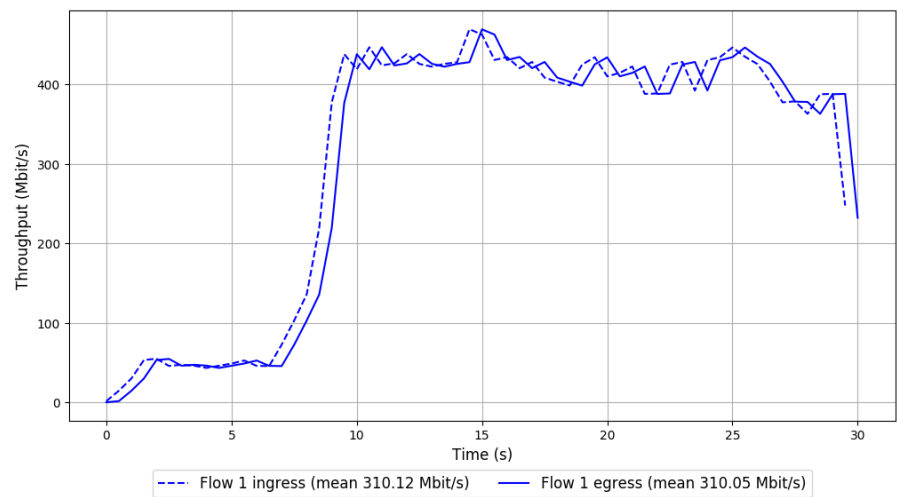
-- Flow 1:

Average throughput: 310.05 Mbit/s

95th percentile per-packet one-way delay: 1.094 ms

Loss rate: 0.09%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2018-05-22 10:31:14

End at: 2018-05-22 10:31:44

Local clock offset: 0.251 ms

Remote clock offset: 0.269 ms

Below is generated by plot.py at 2018-05-22 15:26:43

Datalink statistics

-- Total of 1 flow:

Average throughput: 344.29 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.07%

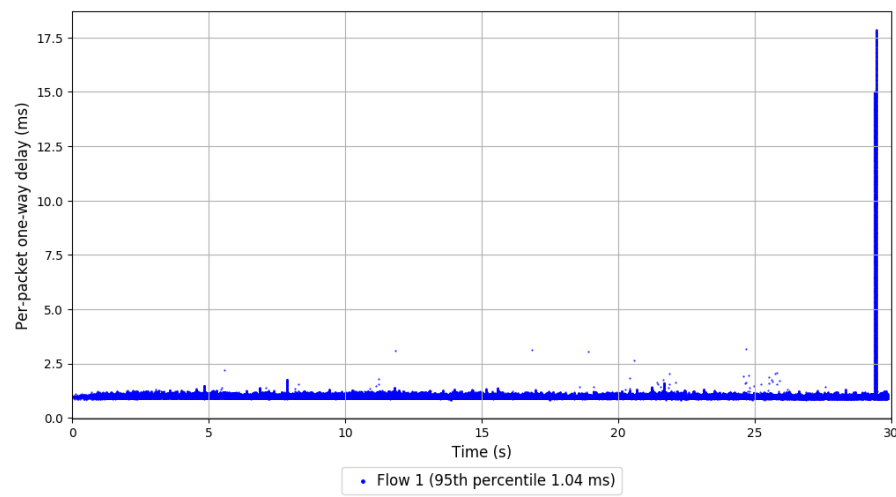
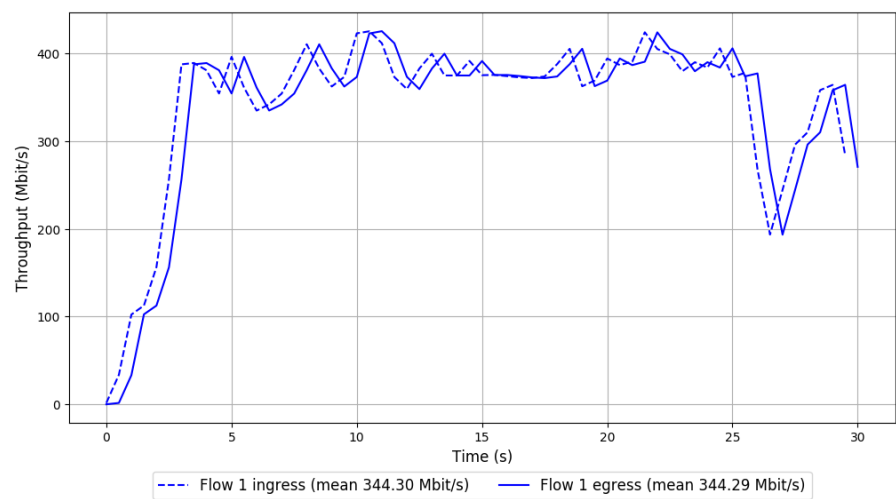
-- Flow 1:

Average throughput: 344.29 Mbit/s

95th percentile per-packet one-way delay: 1.043 ms

Loss rate: 0.07%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-22 10:55:10

End at: 2018-05-22 10:55:40

Local clock offset: 0.266 ms

Remote clock offset: -0.34 ms

Below is generated by plot.py at 2018-05-22 15:27:34

Datalink statistics

-- Total of 1 flow:

Average throughput: 367.10 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.07%

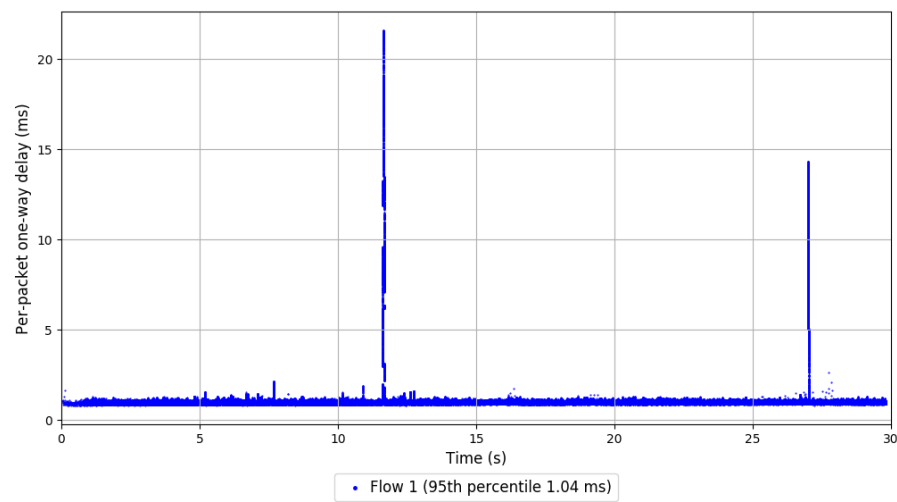
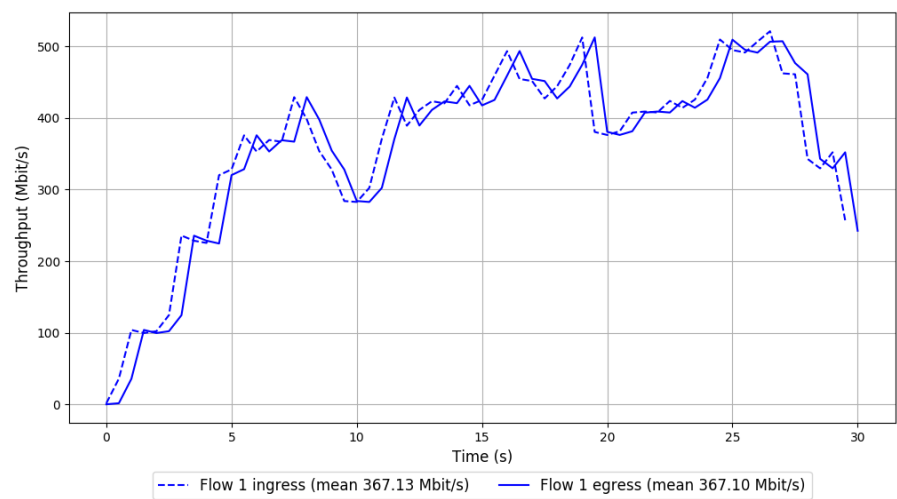
-- Flow 1:

Average throughput: 367.10 Mbit/s

95th percentile per-packet one-way delay: 1.038 ms

Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link

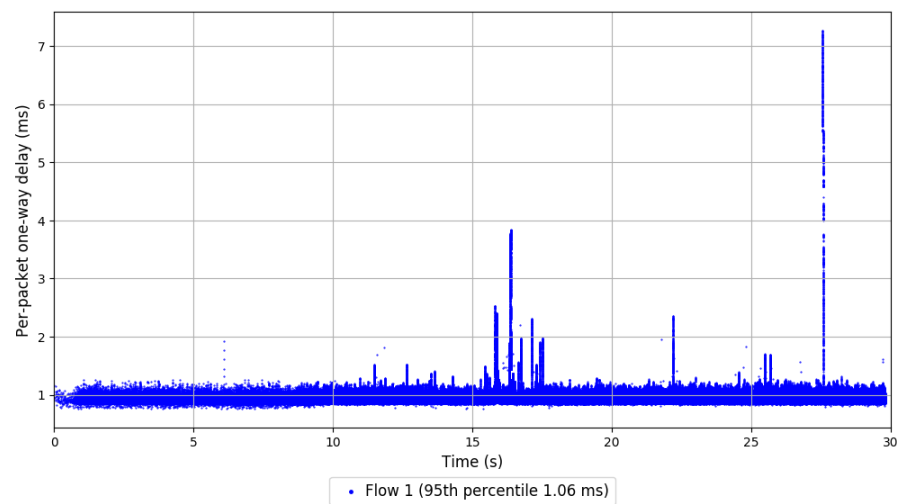
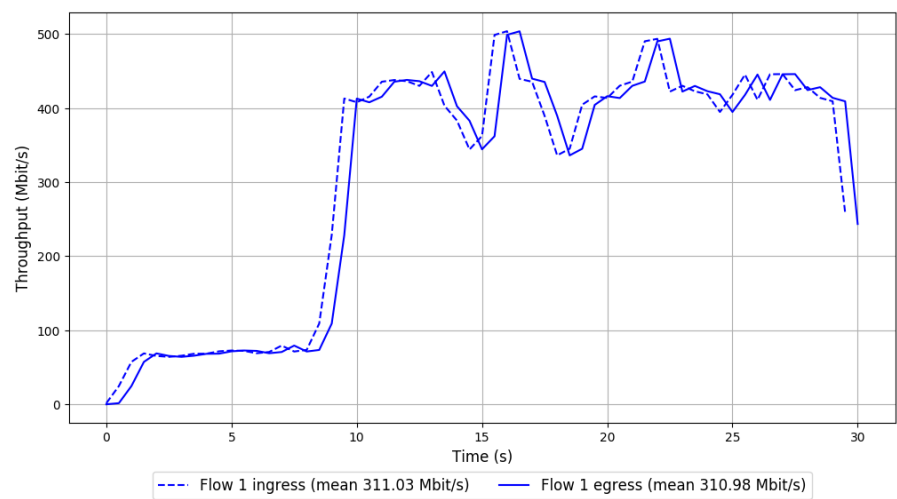


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-22 11:19:15
End at: 2018-05-22 11:19:45
Local clock offset: -0.017 ms
Remote clock offset: -0.341 ms

Below is generated by plot.py at 2018-05-22 15:27:34
Datalink statistics
-- Total of 1 flow:
Average throughput: 310.98 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 310.98 Mbit/s
95th percentile per-packet one-way delay: 1.059 ms
Loss rate: 0.08%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-22 11:42:53

End at: 2018-05-22 11:43:23

Local clock offset: 0.282 ms

Remote clock offset: -0.261 ms

Below is generated by plot.py at 2018-05-22 15:28:21

Datalink statistics

-- Total of 1 flow:

Average throughput: 310.48 Mbit/s

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

Loss rate: 0.09%

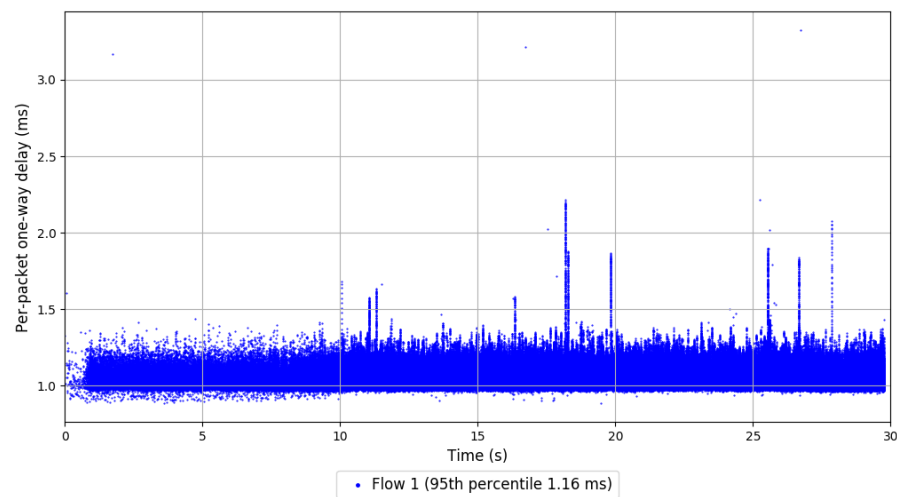
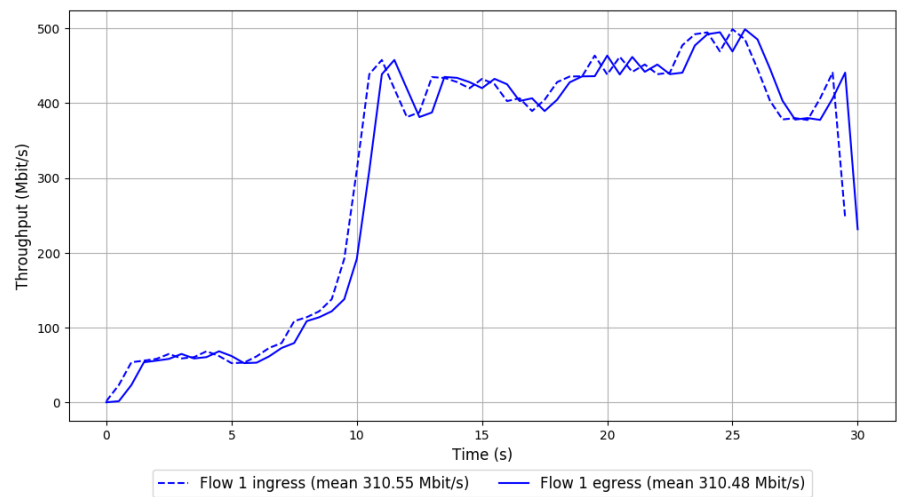
-- Flow 1:

Average throughput: 310.48 Mbit/s

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

Loss rate: 0.09%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-22 12:06:52

End at: 2018-05-22 12:07:22

Local clock offset: 0.338 ms

Remote clock offset: -0.187 ms

Below is generated by plot.py at 2018-05-22 15:28:50

Datalink statistics

-- Total of 1 flow:

Average throughput: 295.39 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.10%

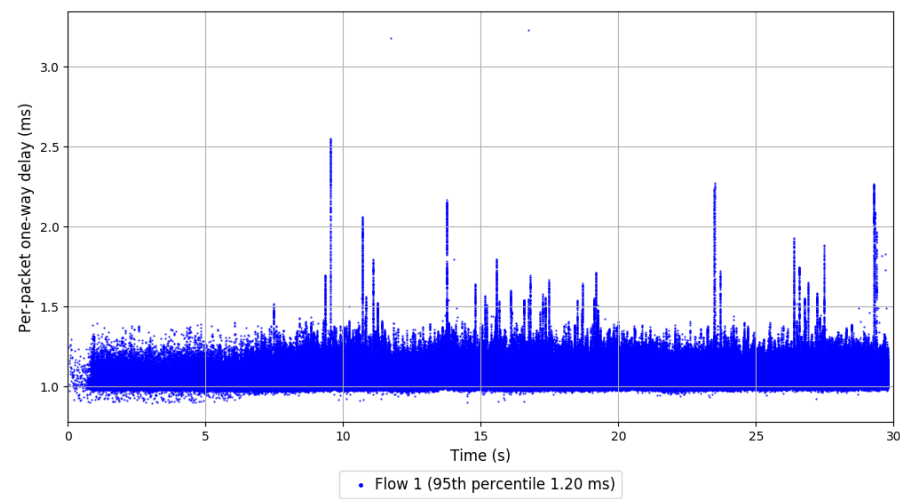
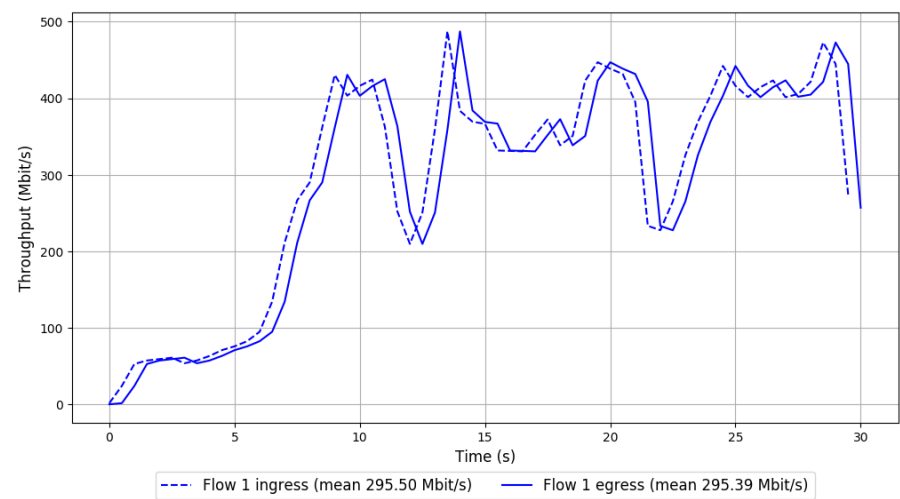
-- Flow 1:

Average throughput: 295.39 Mbit/s

95th percentile per-packet one-way delay: 1.198 ms

Loss rate: 0.10%

Run 6: Report of PCC-Vivace — Data Link

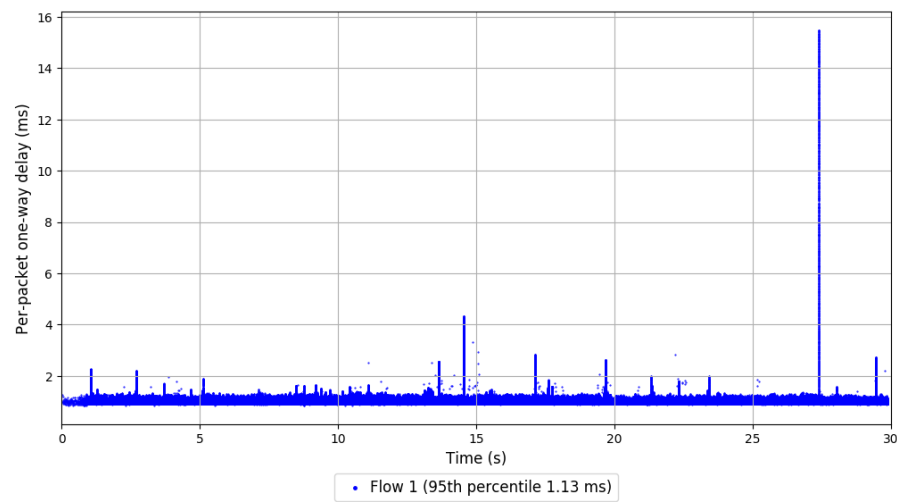
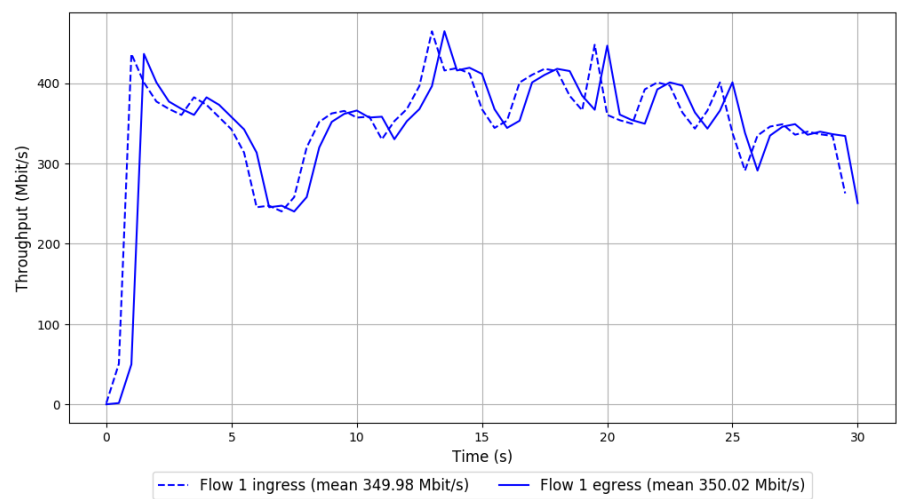


Run 7: Statistics of PCC-Vivace

Start at: 2018-05-22 12:30:39
End at: 2018-05-22 12:31:09
Local clock offset: 0.359 ms
Remote clock offset: -0.321 ms

Below is generated by plot.py at 2018-05-22 15:29:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 350.02 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 350.02 Mbit/s
95th percentile per-packet one-way delay: 1.127 ms
Loss rate: 0.06%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-22 12:54:34

End at: 2018-05-22 12:55:04

Local clock offset: 0.432 ms

Remote clock offset: -0.382 ms

Below is generated by plot.py at 2018-05-22 15:29:13

Datalink statistics

-- Total of 1 flow:

Average throughput: 258.58 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.11%

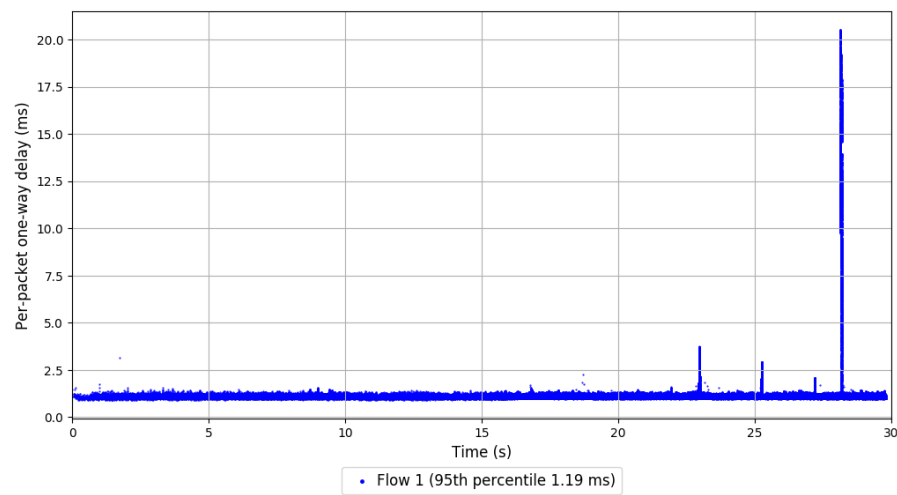
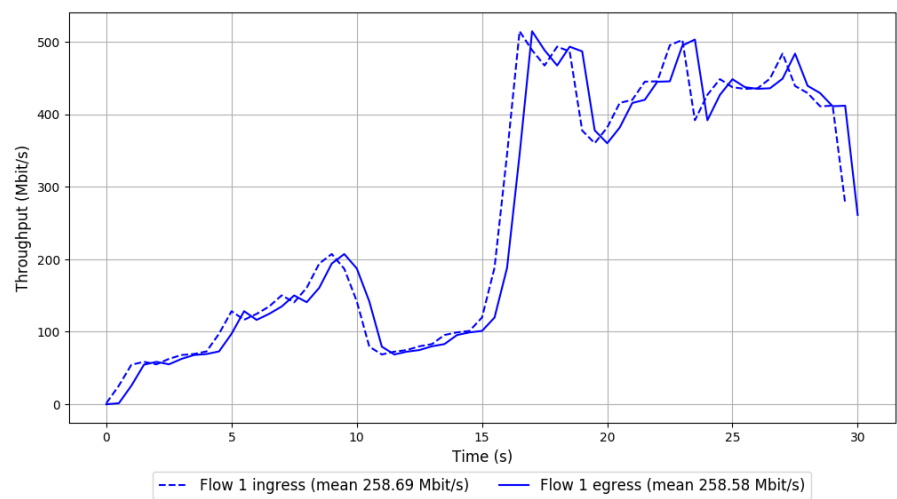
-- Flow 1:

Average throughput: 258.58 Mbit/s

95th percentile per-packet one-way delay: 1.186 ms

Loss rate: 0.11%

Run 8: Report of PCC-Vivace — Data Link

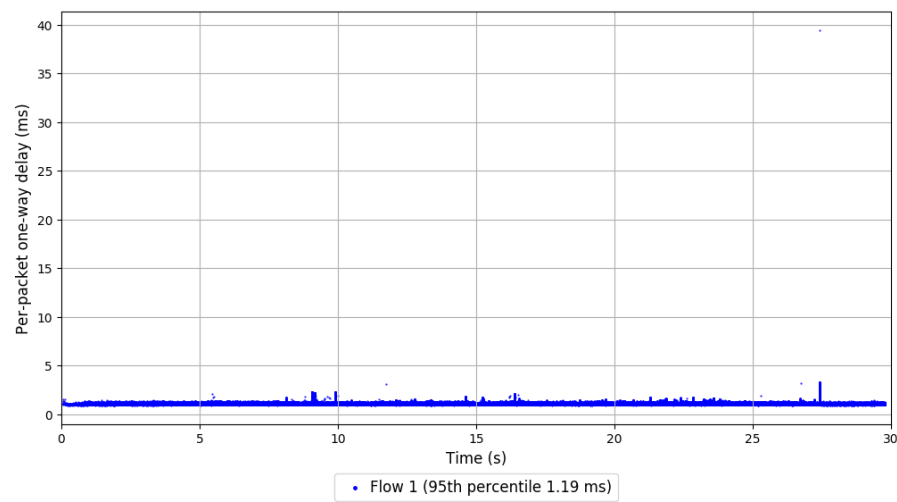
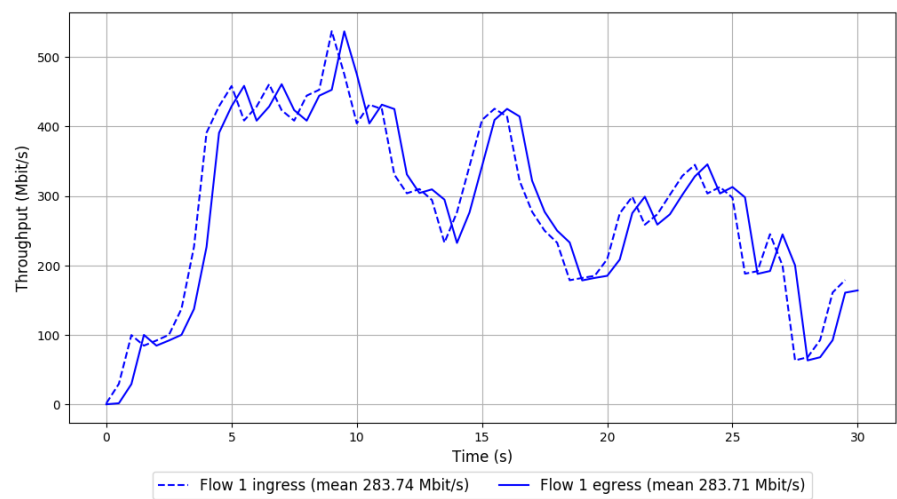


Run 9: Statistics of PCC-Vivace

Start at: 2018-05-22 13:18:13
End at: 2018-05-22 13:18:43
Local clock offset: 0.468 ms
Remote clock offset: -0.149 ms

Below is generated by plot.py at 2018-05-22 15:29:13
Datalink statistics
-- Total of 1 flow:
Average throughput: 283.71 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 283.71 Mbit/s
95th percentile per-packet one-way delay: 1.187 ms
Loss rate: 0.09%

Run 9: Report of PCC-Vivace — Data Link

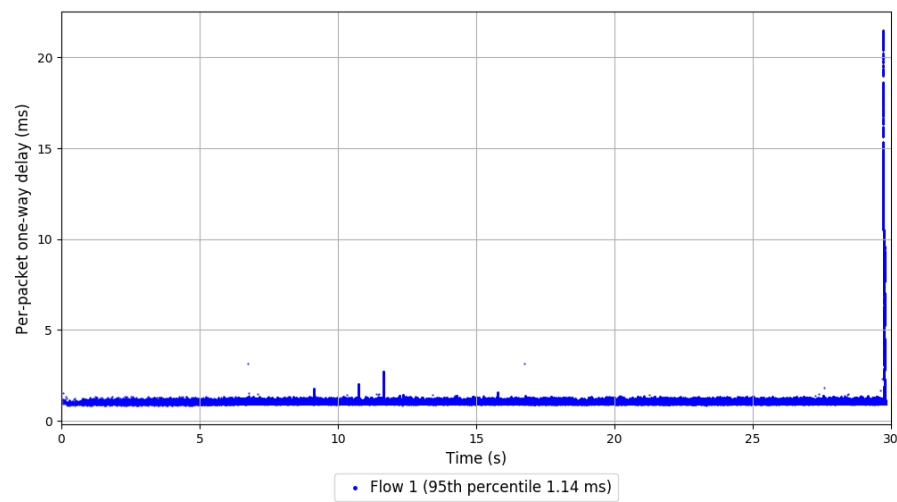
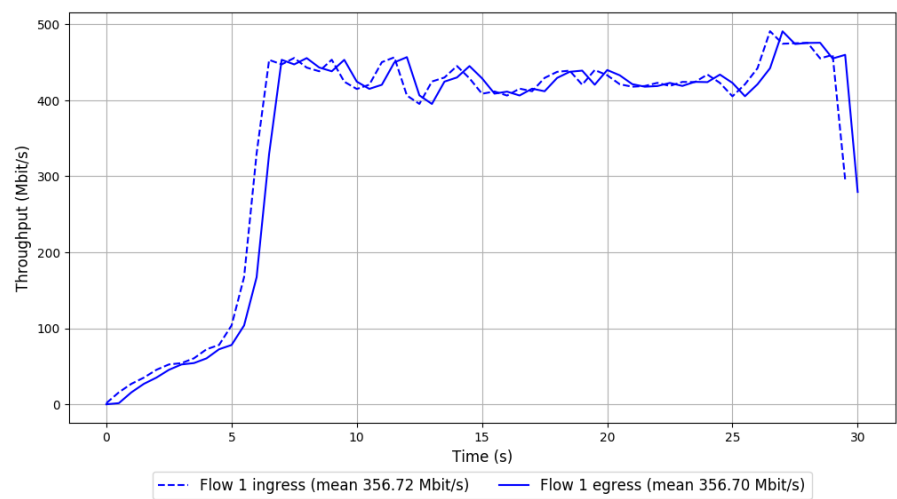


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-22 13:42:11
End at: 2018-05-22 13:42:41
Local clock offset: 0.341 ms
Remote clock offset: -0.186 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 356.70 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 356.70 Mbit/s
95th percentile per-packet one-way delay: 1.137 ms
Loss rate: 0.08%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-22 09:58:00

End at: 2018-05-22 09:58:30

Local clock offset: 0.289 ms

Remote clock offset: 2.973 ms

Below is generated by plot.py at 2018-05-22 15:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.00%

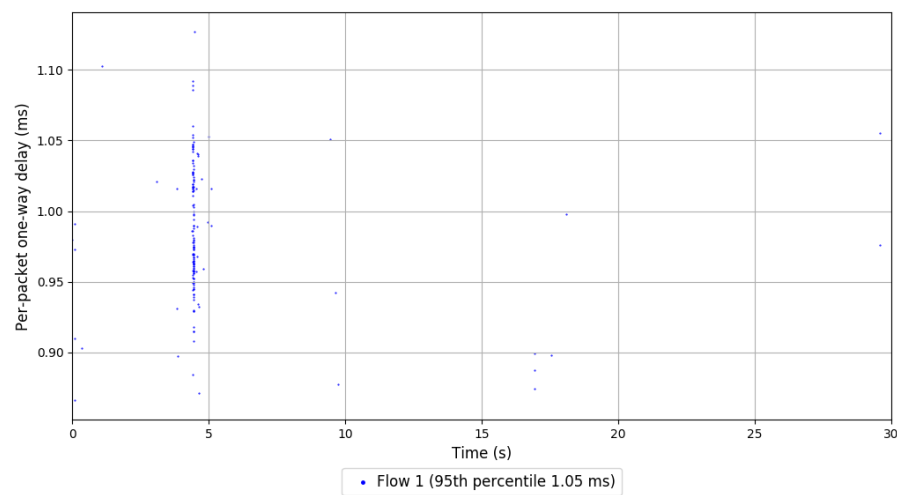
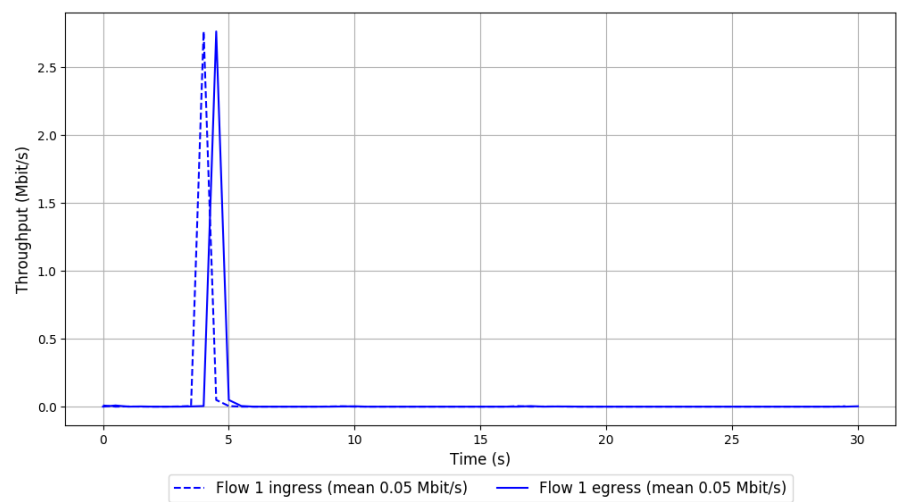
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.053 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-22 10:22:07

End at: 2018-05-22 10:22:37

Local clock offset: 0.162 ms

Remote clock offset: 1.542 ms

Below is generated by plot.py at 2018-05-22 15:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.388 ms

Loss rate: 0.00%

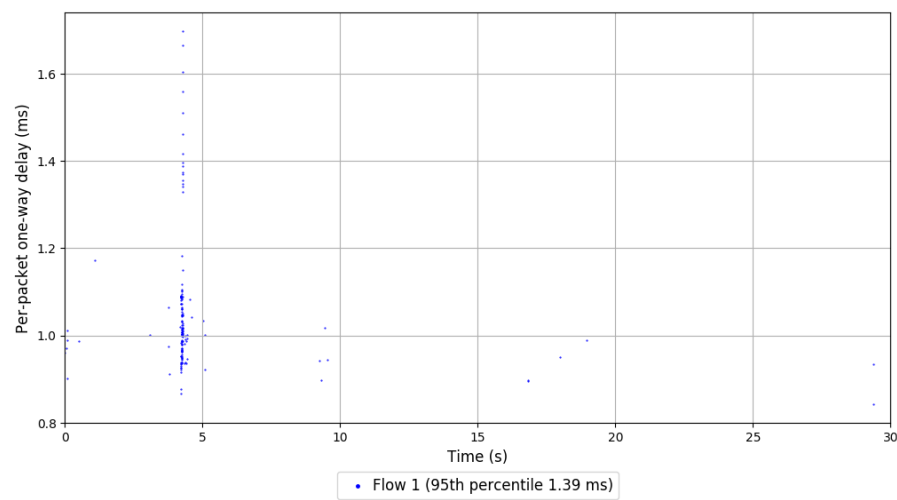
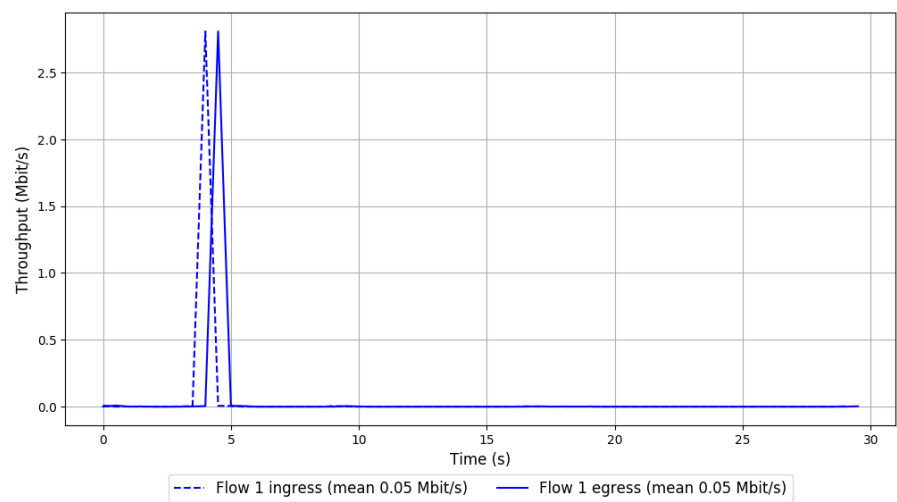
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.388 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

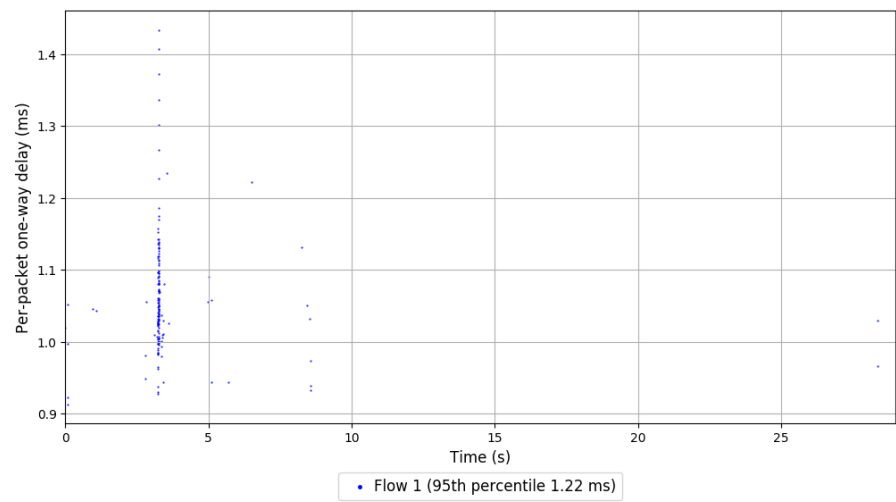
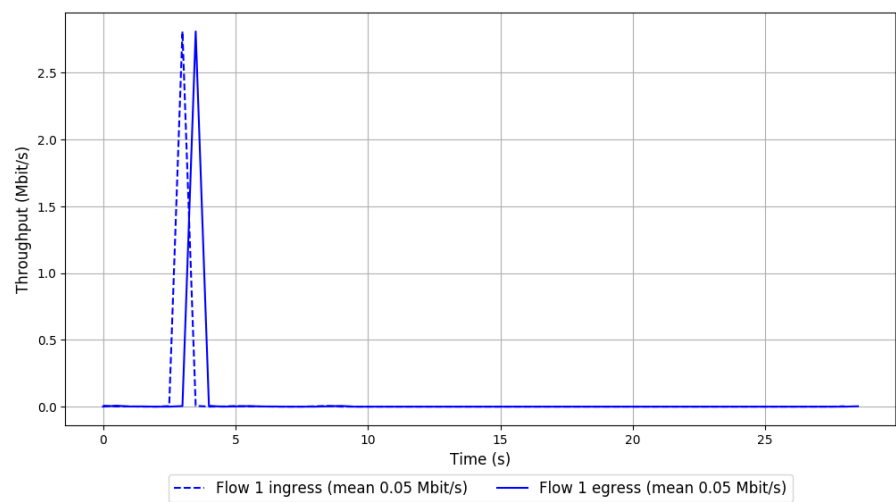


Run 3: Statistics of WebRTC media

Start at: 2018-05-22 10:46:07
End at: 2018-05-22 10:46:37
Local clock offset: 0.34 ms
Remote clock offset: -0.516 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.222 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

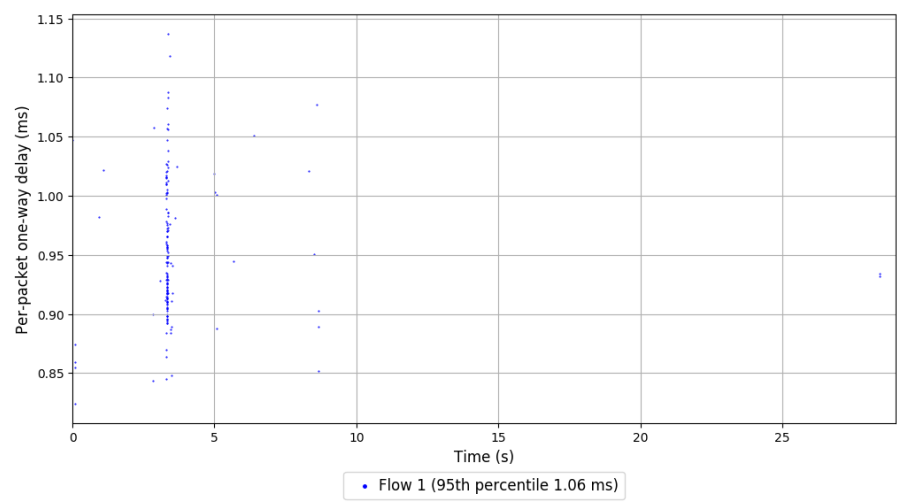
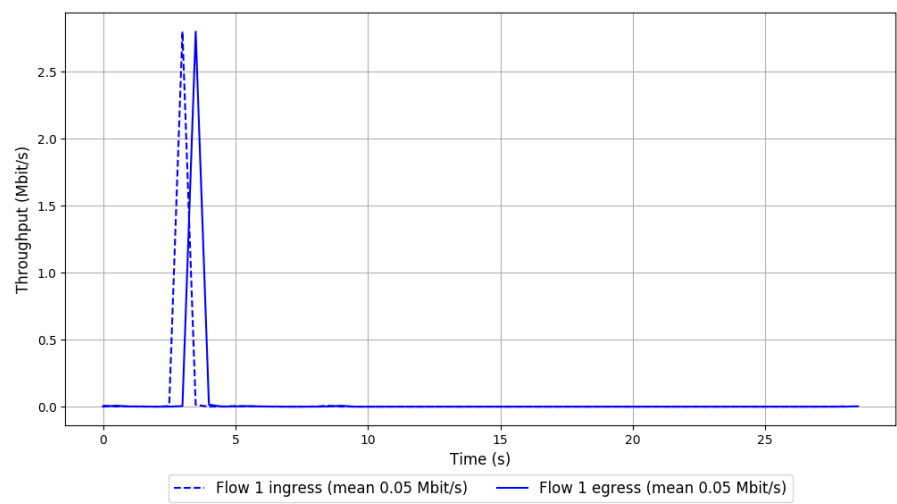


Run 4: Statistics of WebRTC media

Start at: 2018-05-22 11:10:12
End at: 2018-05-22 11:10:42
Local clock offset: 0.053 ms
Remote clock offset: -0.303 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.057 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

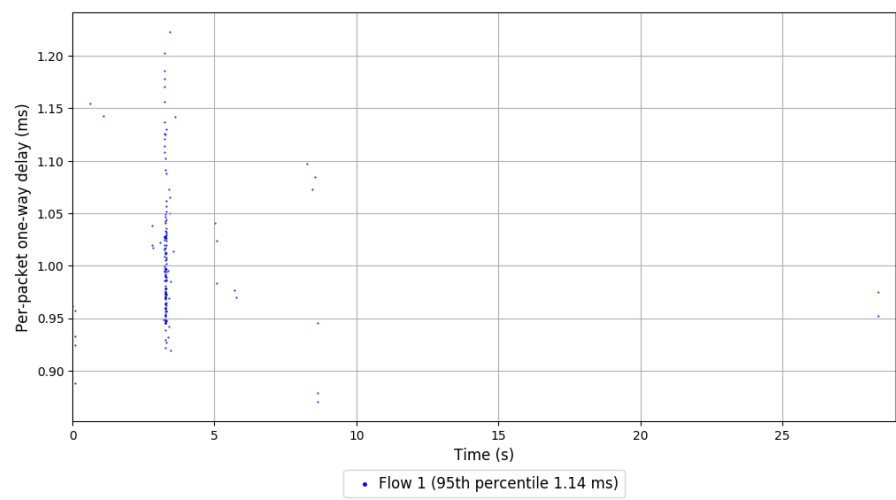
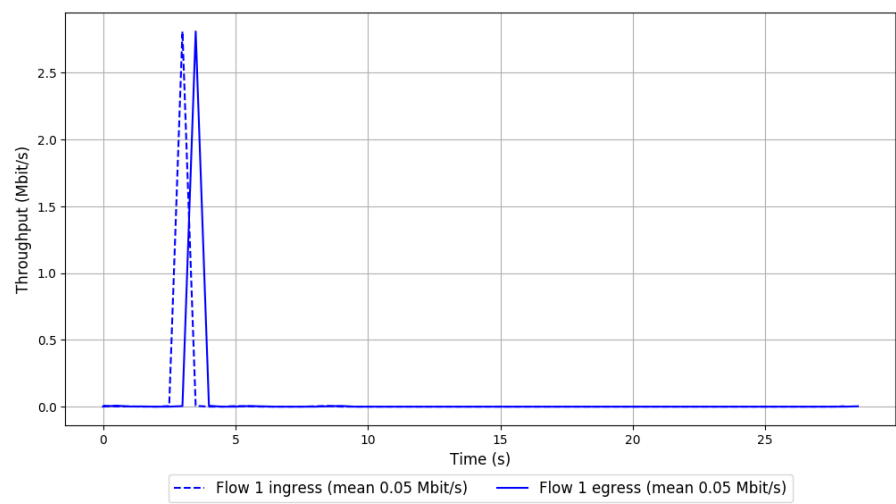


Run 5: Statistics of WebRTC media

Start at: 2018-05-22 11:34:08
End at: 2018-05-22 11:34:38
Local clock offset: 0.217 ms
Remote clock offset: -0.189 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.142 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

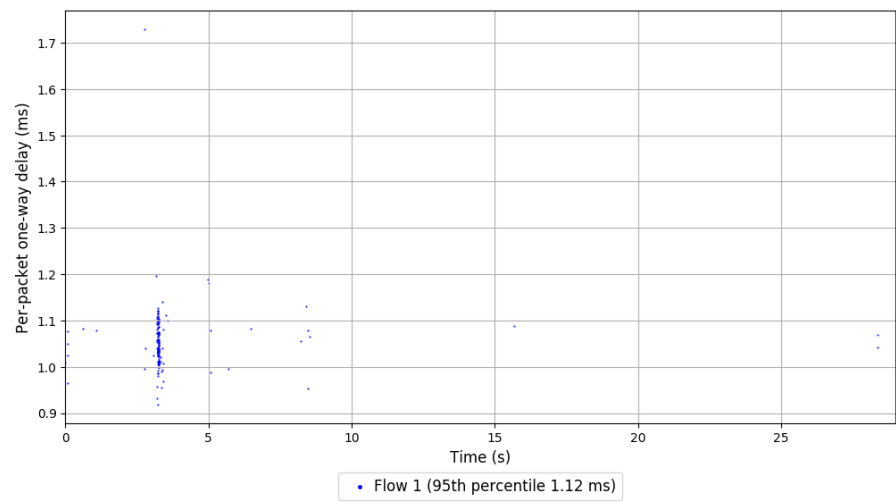
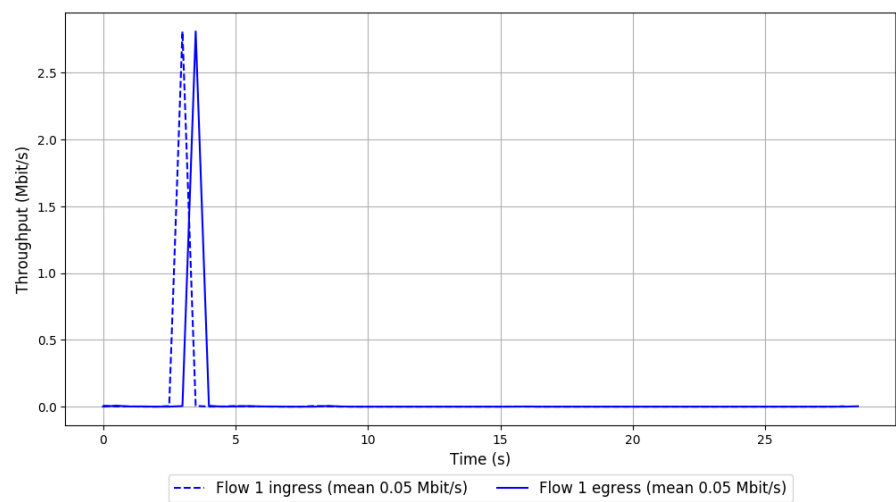


Run 6: Statistics of WebRTC media

Start at: 2018-05-22 11:57:52
End at: 2018-05-22 11:58:22
Local clock offset: 0.337 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.121 ms
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

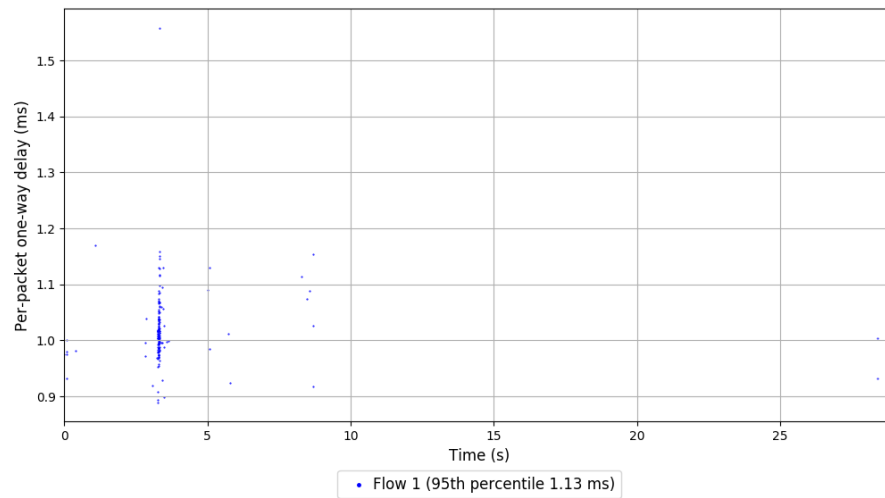
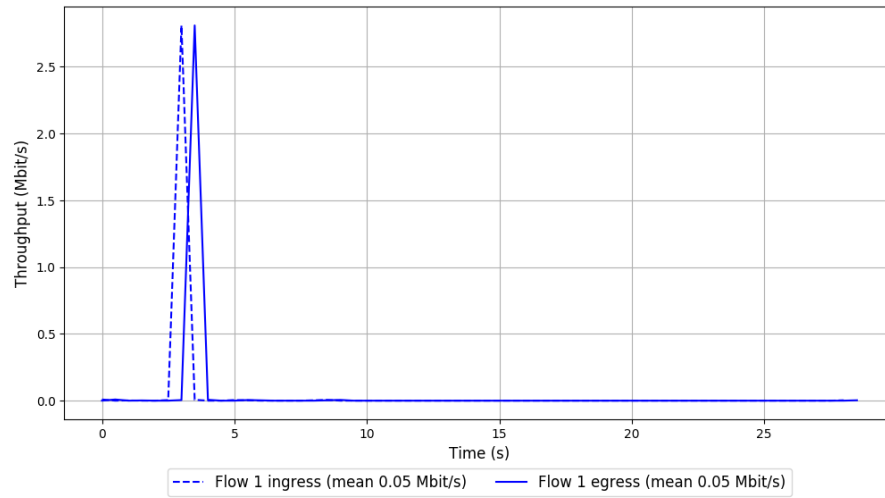


Run 7: Statistics of WebRTC media

Start at: 2018-05-22 12:21:36
End at: 2018-05-22 12:22:06
Local clock offset: 0.339 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.129 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link

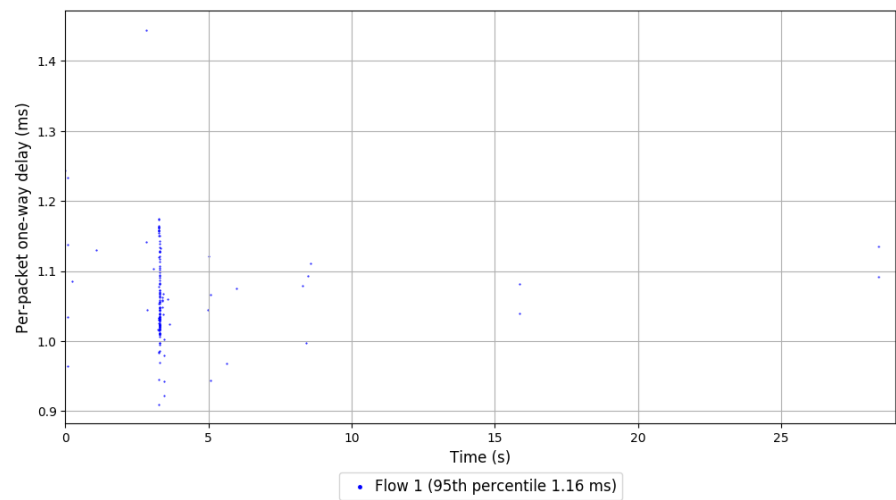
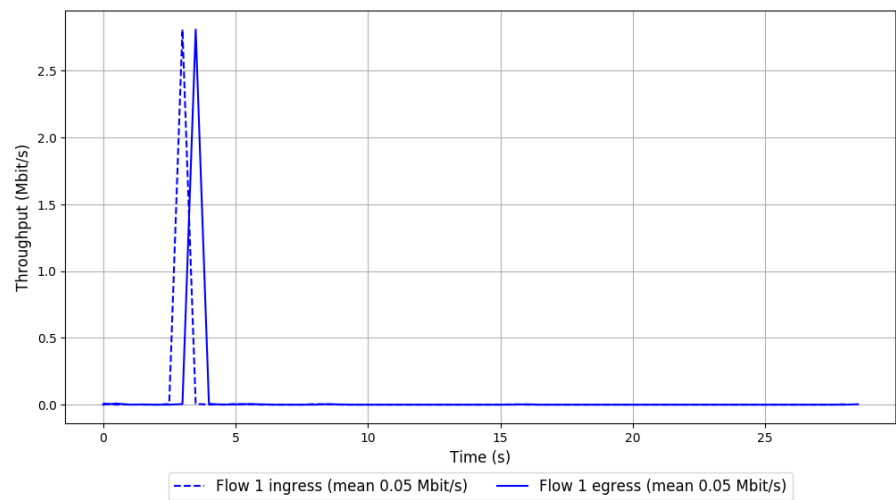


Run 8: Statistics of WebRTC media

Start at: 2018-05-22 12:45:33
End at: 2018-05-22 12:46:03
Local clock offset: 0.417 ms
Remote clock offset: -0.318 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.162 ms
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

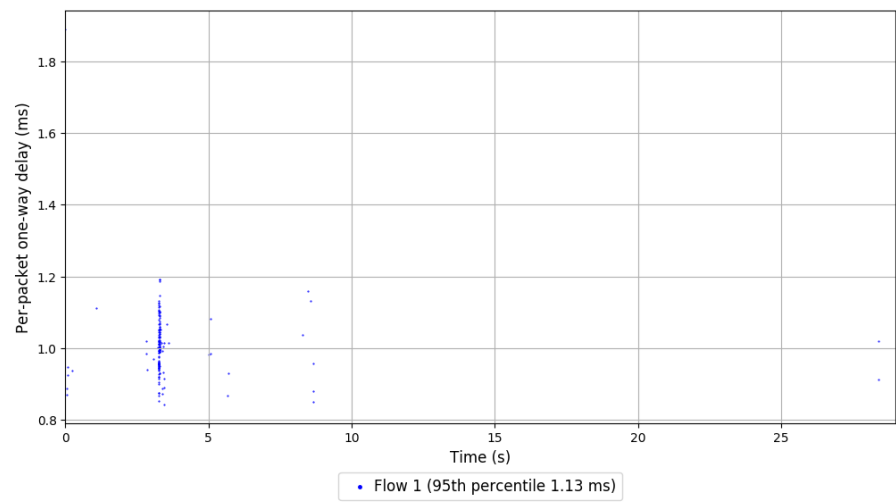
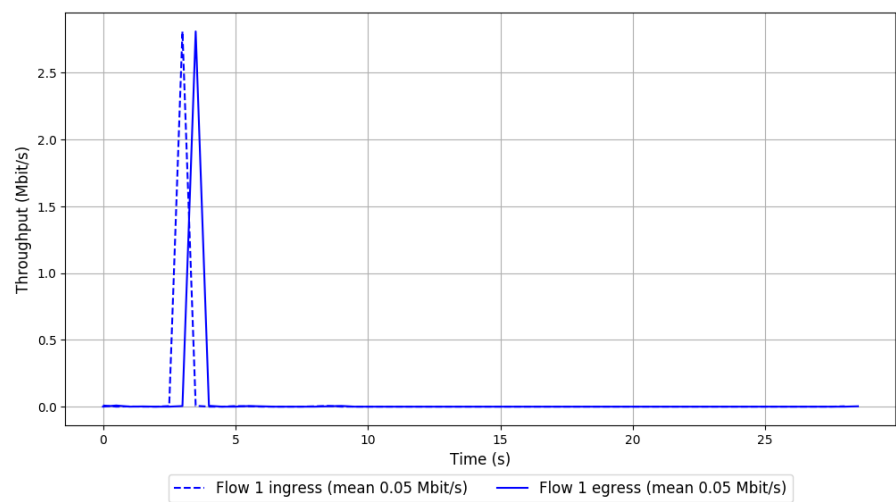


Run 9: Statistics of WebRTC media

Start at: 2018-05-22 13:09:14
End at: 2018-05-22 13:09:44
Local clock offset: 0.363 ms
Remote clock offset: -0.344 ms

Below is generated by plot.py at 2018-05-22 15:29:15
Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 1.126 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-22 13:33:07

End at: 2018-05-22 13:33:37

Local clock offset: 0.448 ms

Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-22 15:29:15

Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 1.158 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

