

## Pantheon Report

Generated at 2018-05-30 23:39:02 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

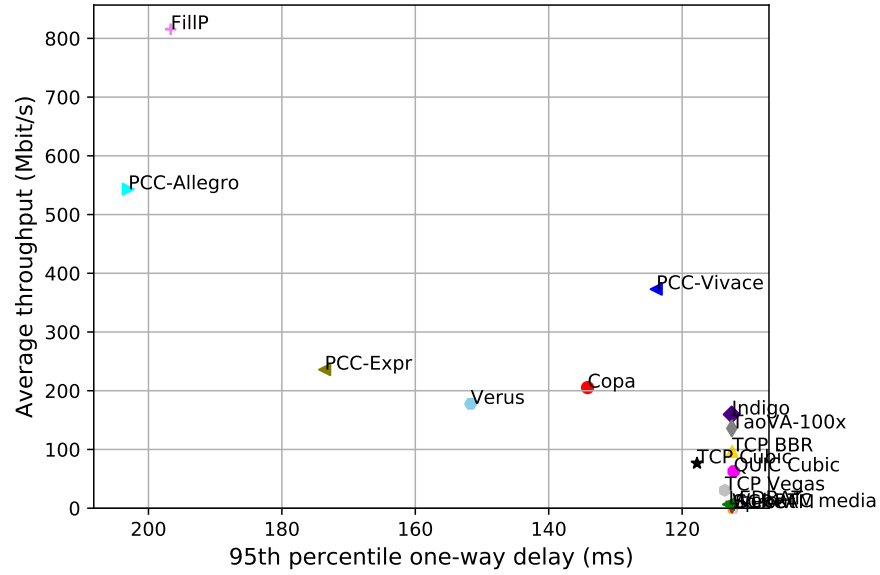
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

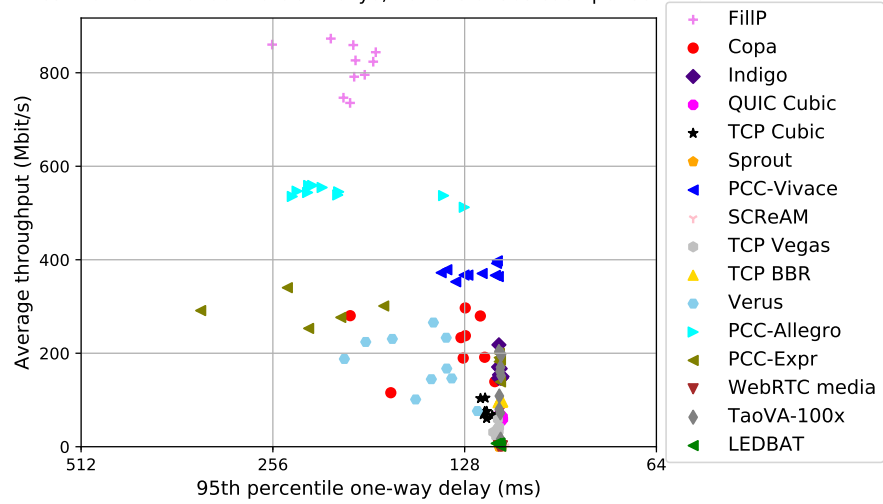
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE London to GCE Tokyo, 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	96.65	112.51	0.79
Copa	10	205.33	134.18	0.81
TCP Cubic	10	76.47	117.77	0.91
FillP	10	815.60	196.67	3.40
Indigo	10	159.60	112.58	0.83
LEDBAT	10	6.49	113.05	1.69
PCC-Allegro	10	543.16	203.03	2.18
PCC-Expr	10	235.93	173.59	2.46
QUIC Cubic	9	62.76	112.28	1.02
SCReAM	10	0.21	112.03	0.73
Sprout	10	0.21	112.40	0.58
TaoVA-100x	10	135.87	112.56	0.90
TCP Vegas	10	30.45	113.59	0.77
Verus	10	177.67	151.71	0.85
PCC-Vivace	10	372.91	123.88	0.96
WebRTC media	10	1.85	112.54	0.86

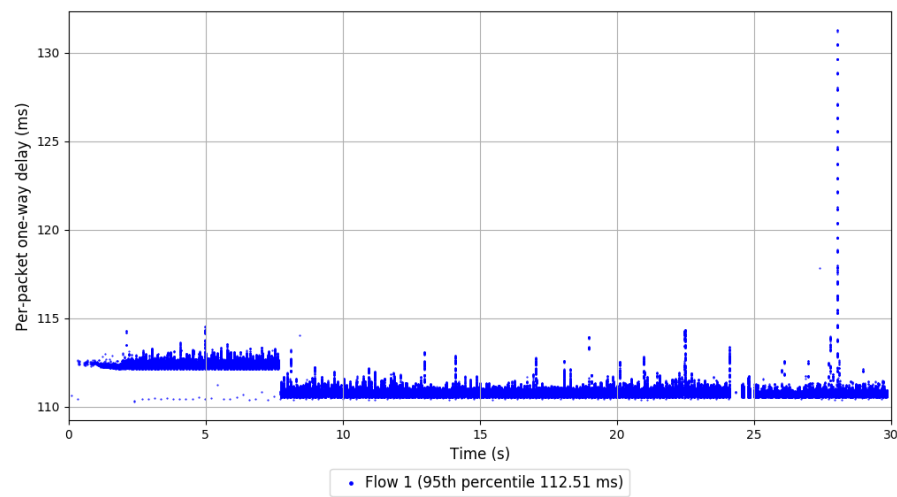
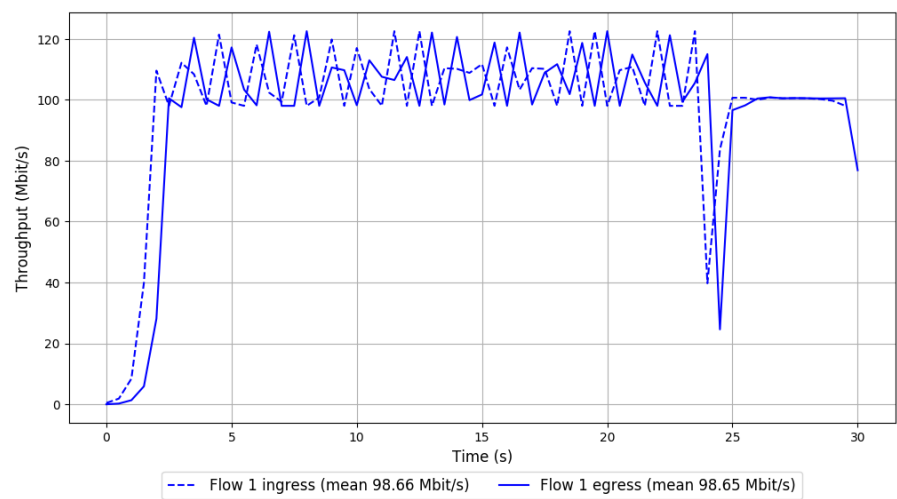
Run 1: Statistics of TCP BBR

Start at: 2018-05-30 18:58:46  
End at: 2018-05-30 18:59:16  
Local clock offset: -0.524 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-05-30 22:30:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 98.65 Mbit/s  
95th percentile per-packet one-way delay: 112.510 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 98.65 Mbit/s  
95th percentile per-packet one-way delay: 112.510 ms  
Loss rate: 0.83%



Run 1: Report of TCP BBR — Data Link

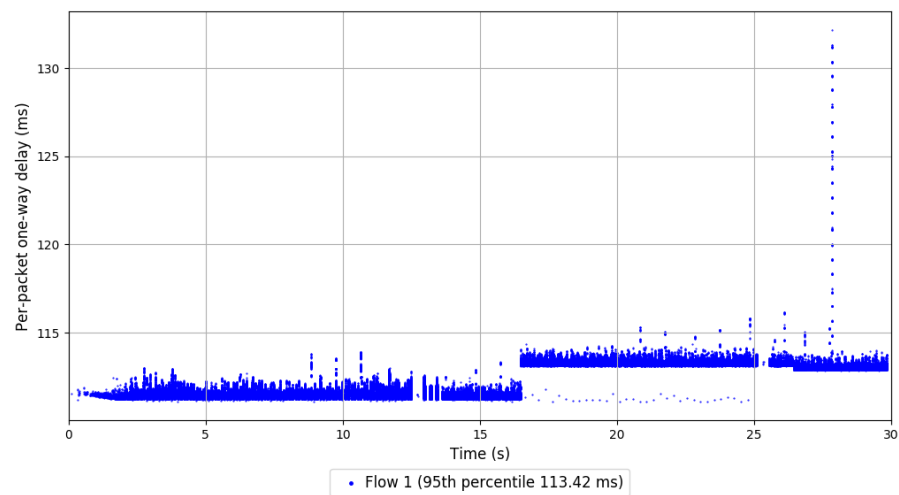
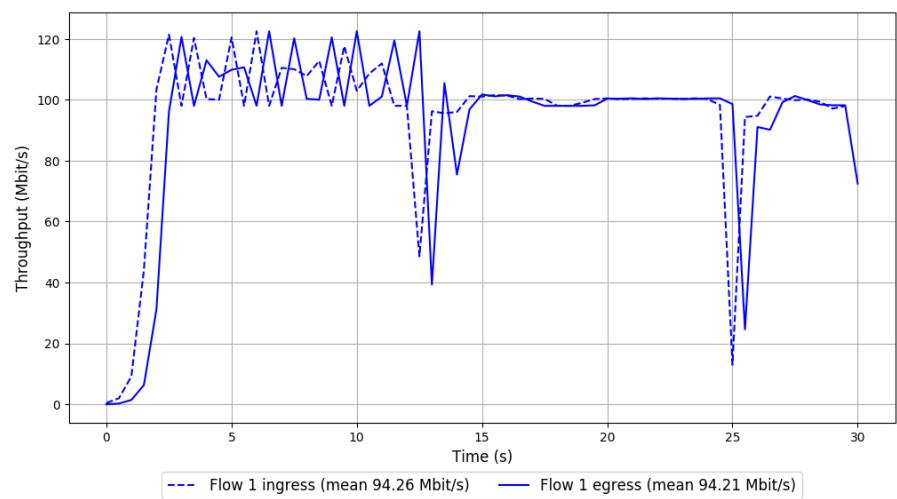


Run 2: Statistics of TCP BBR

Start at: 2018-05-30 19:19:37  
End at: 2018-05-30 19:20:07  
Local clock offset: -0.345 ms  
Remote clock offset: -0.862 ms

# Below is generated by plot.py at 2018-05-30 22:30:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 94.21 Mbit/s  
95th percentile per-packet one-way delay: 113.425 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 94.21 Mbit/s  
95th percentile per-packet one-way delay: 113.425 ms  
Loss rate: 0.87%

Run 2: Report of TCP BBR — Data Link

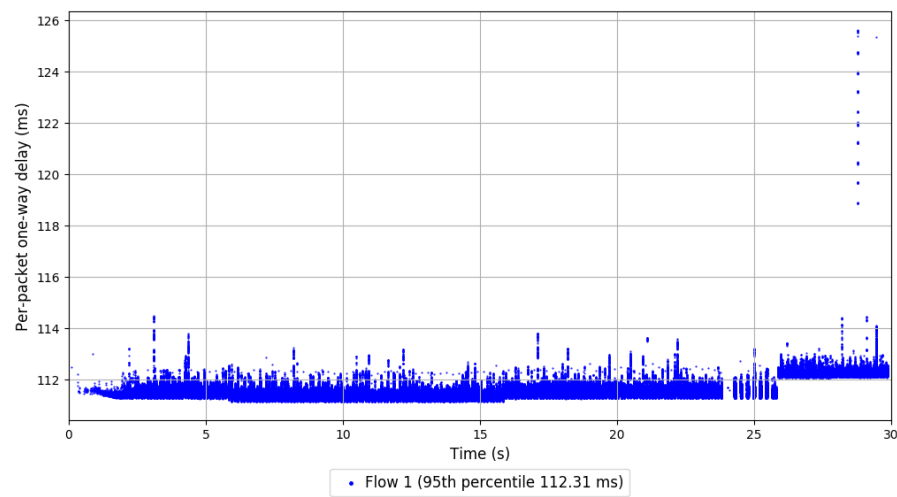
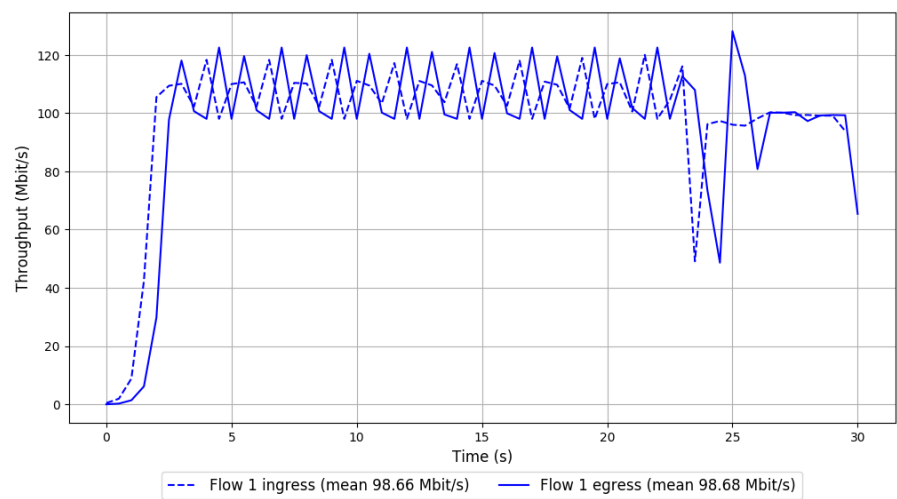


Run 3: Statistics of TCP BBR

Start at: 2018-05-30 19:40:28  
End at: 2018-05-30 19:40:58  
Local clock offset: -0.614 ms  
Remote clock offset: -0.331 ms

# Below is generated by plot.py at 2018-05-30 22:30:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 98.68 Mbit/s  
95th percentile per-packet one-way delay: 112.314 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 98.68 Mbit/s  
95th percentile per-packet one-way delay: 112.314 ms  
Loss rate: 0.73%

Run 3: Report of TCP BBR — Data Link

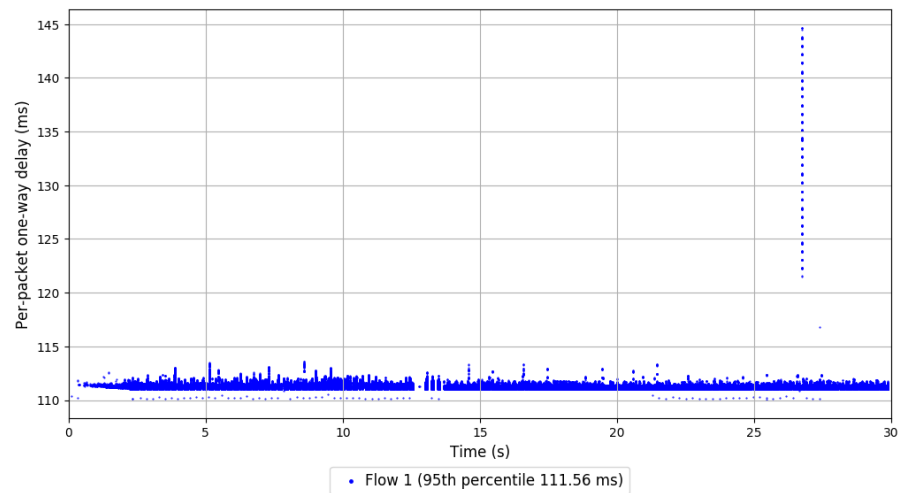
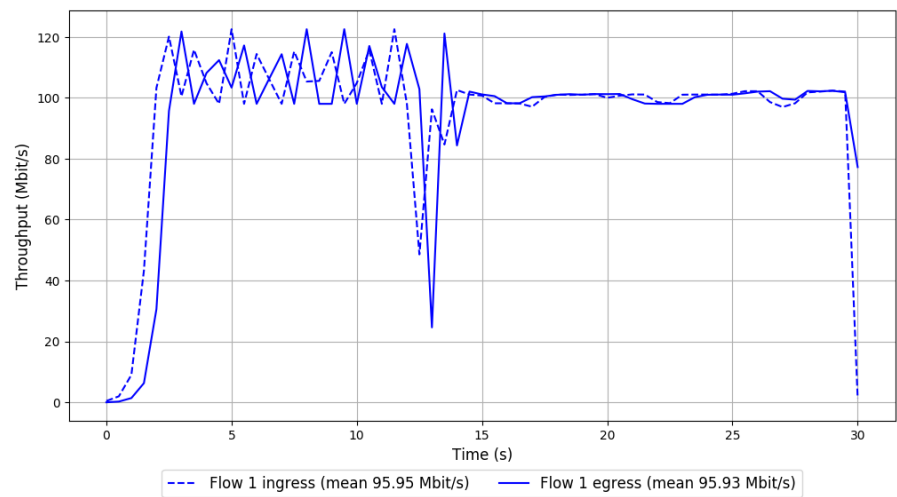


Run 4: Statistics of TCP BBR

Start at: 2018-05-30 20:01:21  
End at: 2018-05-30 20:01:52  
Local clock offset: -0.695 ms  
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2018-05-30 22:30:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.93 Mbit/s  
95th percentile per-packet one-way delay: 111.555 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 95.93 Mbit/s  
95th percentile per-packet one-way delay: 111.555 ms  
Loss rate: 0.76%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2018-05-30 20:22:20

End at: 2018-05-30 20:22:50

Local clock offset: -0.095 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-05-30 22:30:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 112.034 ms

Loss rate: 0.85%

-- Flow 1:

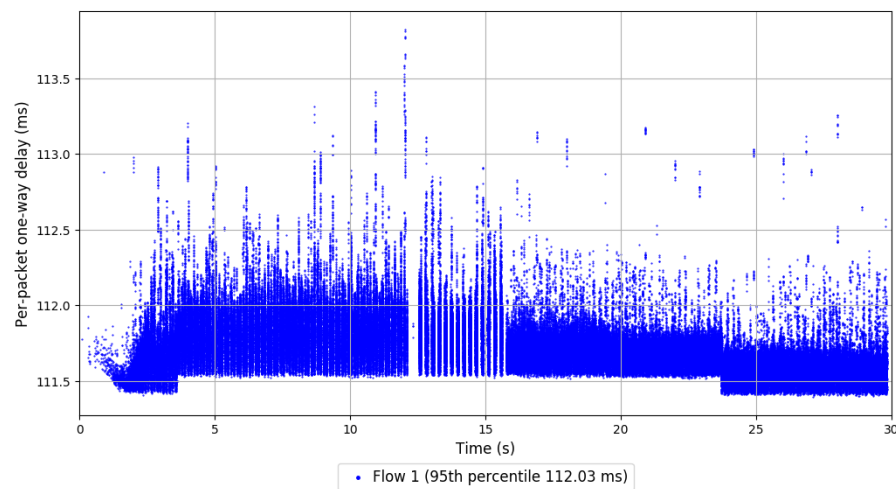
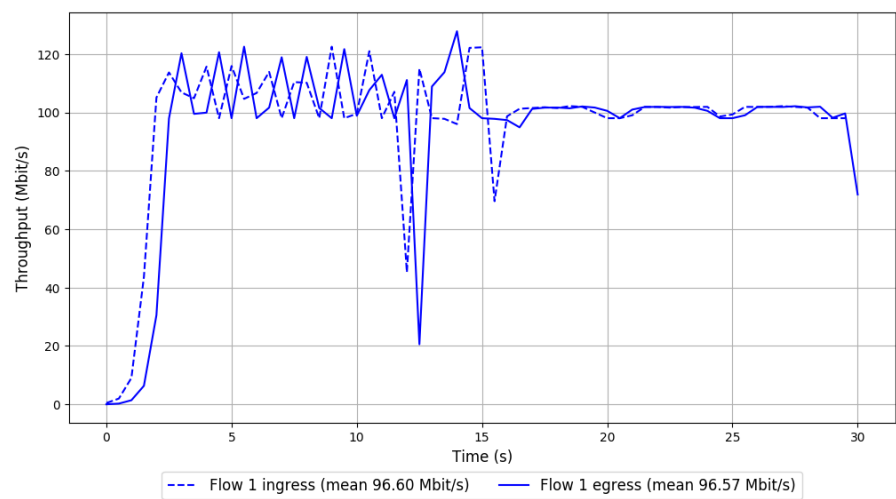
Average throughput: 96.57 Mbit/s

95th percentile per-packet one-way delay: 112.034 ms

Loss rate: 0.85%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-30 20:43:24

End at: 2018-05-30 20:43:54

Local clock offset: -0.16 ms

Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-05-30 22:30:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 111.773 ms

Loss rate: 0.76%

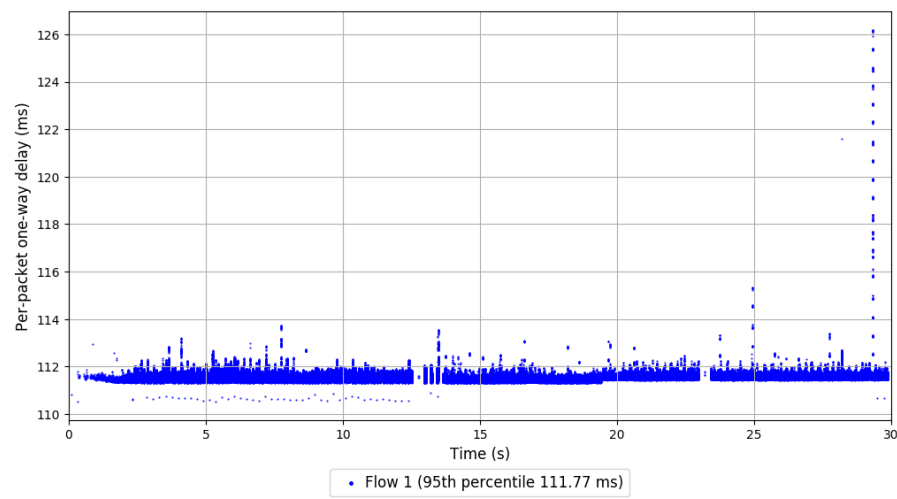
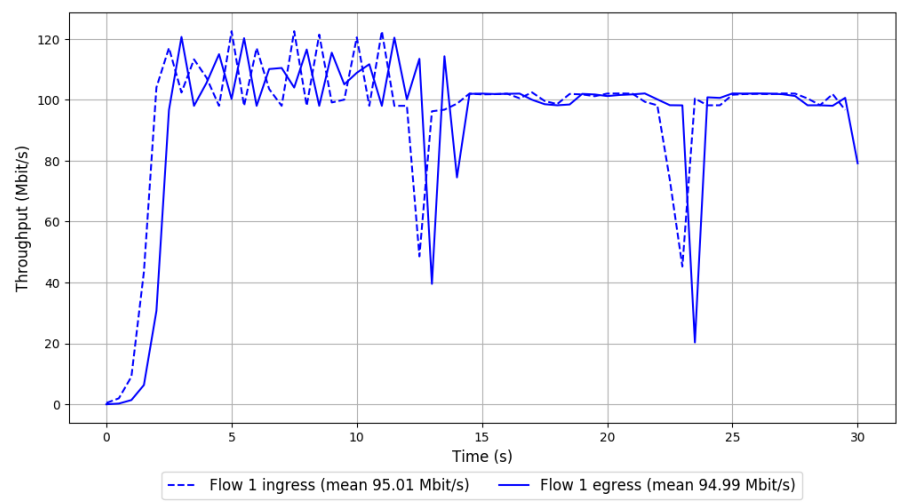
-- Flow 1:

Average throughput: 94.99 Mbit/s

95th percentile per-packet one-way delay: 111.773 ms

Loss rate: 0.76%

Run 6: Report of TCP BBR — Data Link

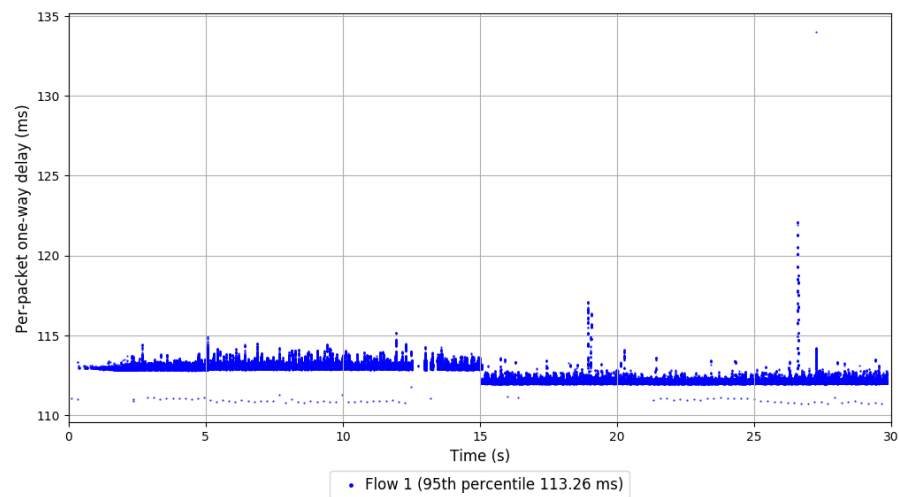
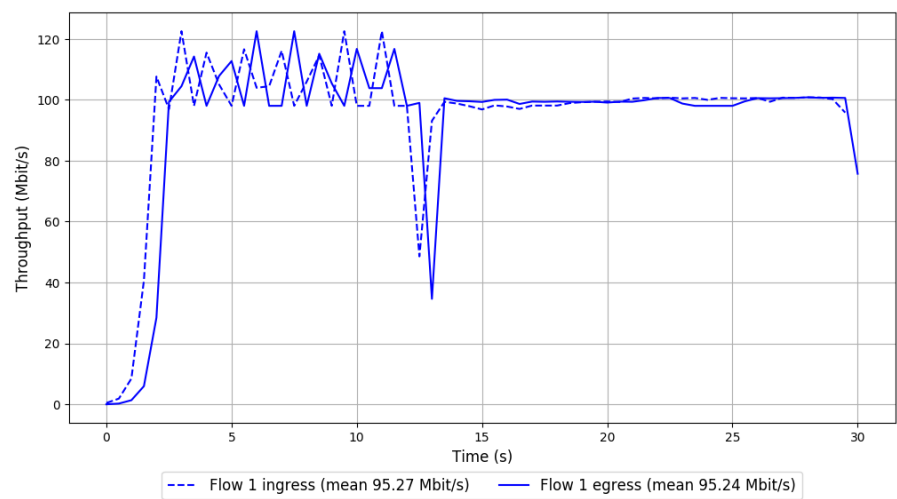


Run 7: Statistics of TCP BBR

Start at: 2018-05-30 21:04:19  
End at: 2018-05-30 21:04:49  
Local clock offset: -0.045 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-30 22:30:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 95.24 Mbit/s  
95th percentile per-packet one-way delay: 113.258 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 95.24 Mbit/s  
95th percentile per-packet one-way delay: 113.258 ms  
Loss rate: 0.82%

Run 7: Report of TCP BBR — Data Link



Run 8: Statistics of TCP BBR

Start at: 2018-05-30 21:25:20

End at: 2018-05-30 21:25:50

Local clock offset: -0.123 ms

Remote clock offset: 0.336 ms

# Below is generated by plot.py at 2018-05-30 22:30:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 98.25 Mbit/s

95th percentile per-packet one-way delay: 112.665 ms

Loss rate: 0.74%

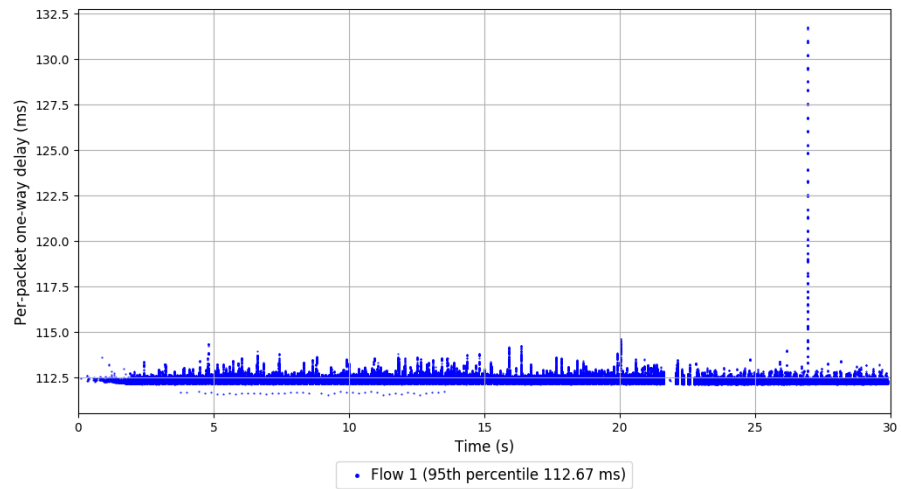
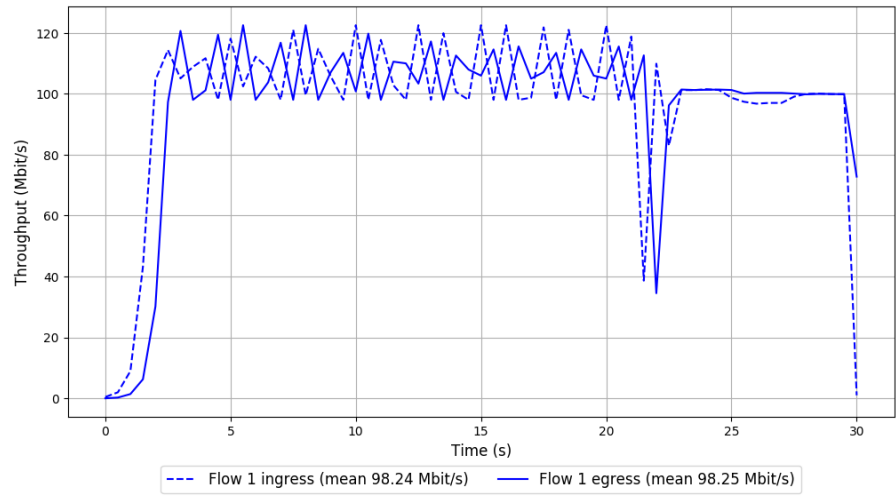
-- Flow 1:

Average throughput: 98.25 Mbit/s

95th percentile per-packet one-way delay: 112.665 ms

Loss rate: 0.74%

### Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-30 21:47:00

End at: 2018-05-30 21:47:30

Local clock offset: -0.095 ms

Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2018-05-30 22:31:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 112.795 ms

Loss rate: 0.78%

-- Flow 1:

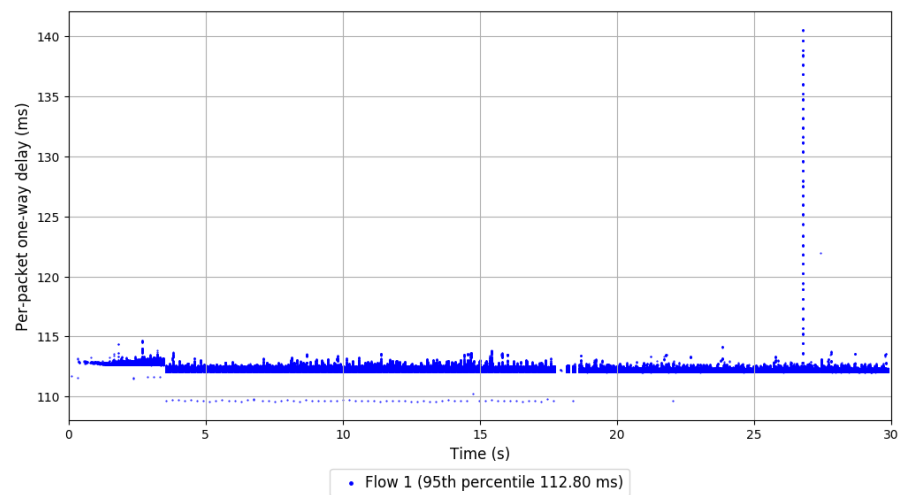
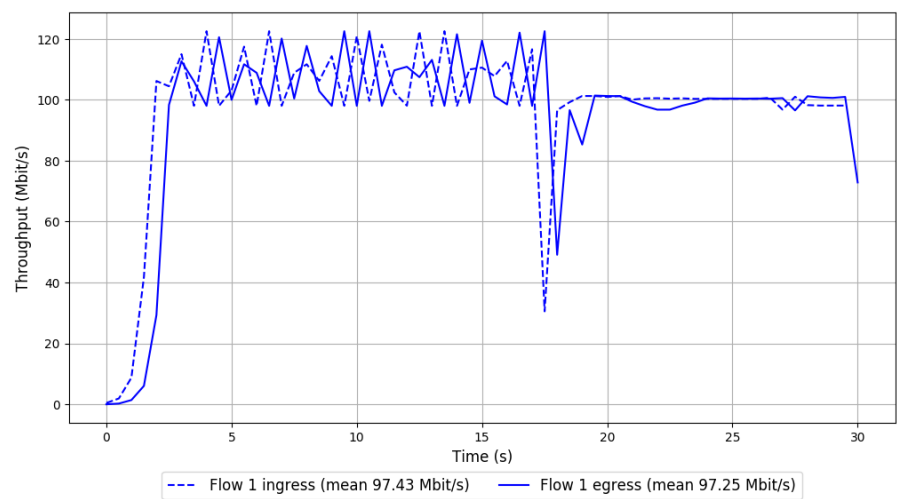
Average throughput: 97.25 Mbit/s

95th percentile per-packet one-way delay: 112.795 ms

Loss rate: 0.78%



Run 9: Report of TCP BBR — Data Link



Run 10: Statistics of TCP BBR

Start at: 2018-05-30 22:07:54

End at: 2018-05-30 22:08:24

Local clock offset: 0.132 ms

Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-05-30 22:31:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 96.77 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.77%

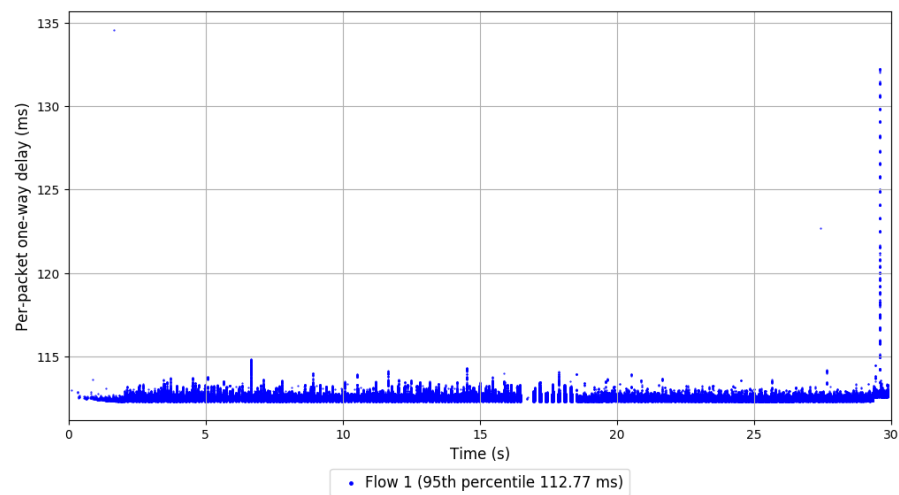
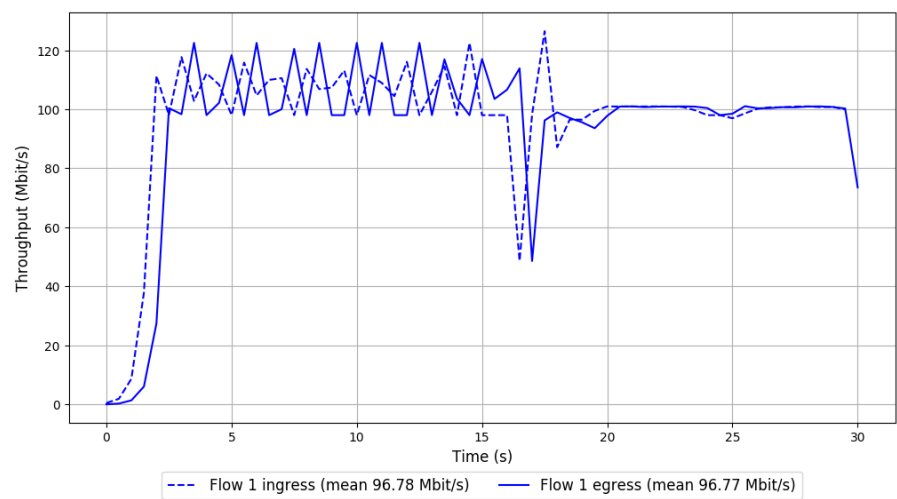
-- Flow 1:

Average throughput: 96.77 Mbit/s

95th percentile per-packet one-way delay: 112.773 ms

Loss rate: 0.77%

Run 10: Report of TCP BBR — Data Link

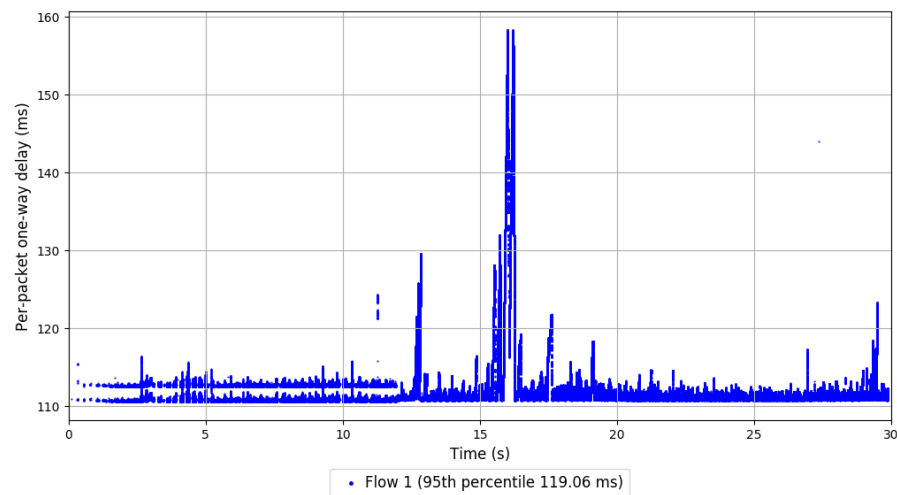
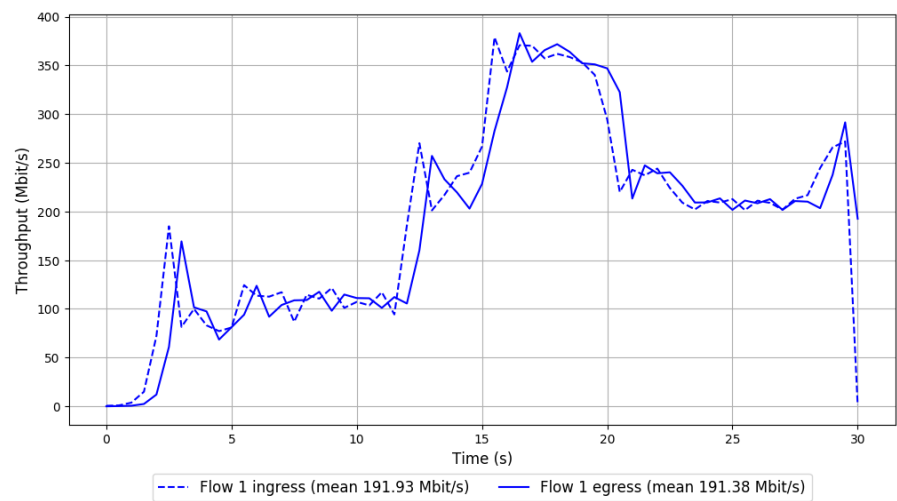


Run 1: Statistics of Copa

Start at: 2018-05-30 19:03:52  
End at: 2018-05-30 19:04:22  
Local clock offset: -0.568 ms  
Remote clock offset: -0.443 ms

# Below is generated by plot.py at 2018-05-30 22:35:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 191.38 Mbit/s  
95th percentile per-packet one-way delay: 119.056 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 191.38 Mbit/s  
95th percentile per-packet one-way delay: 119.056 ms  
Loss rate: 1.03%

Run 1: Report of Copa — Data Link

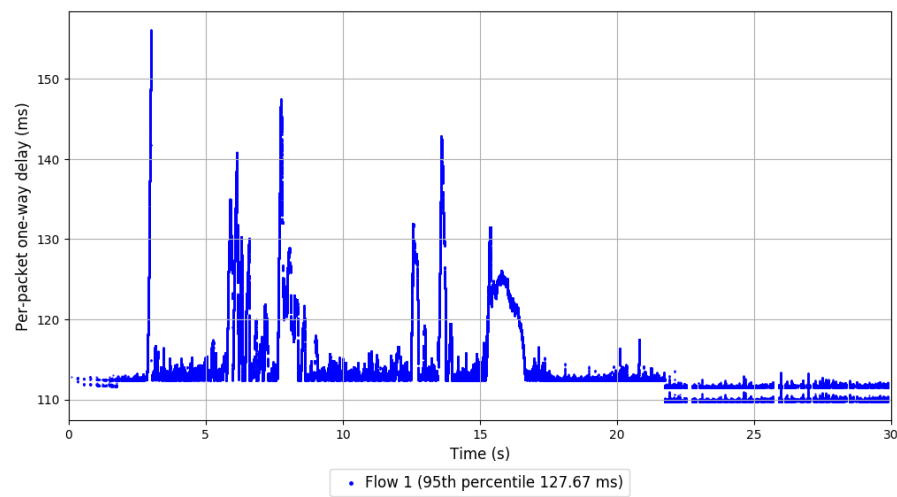
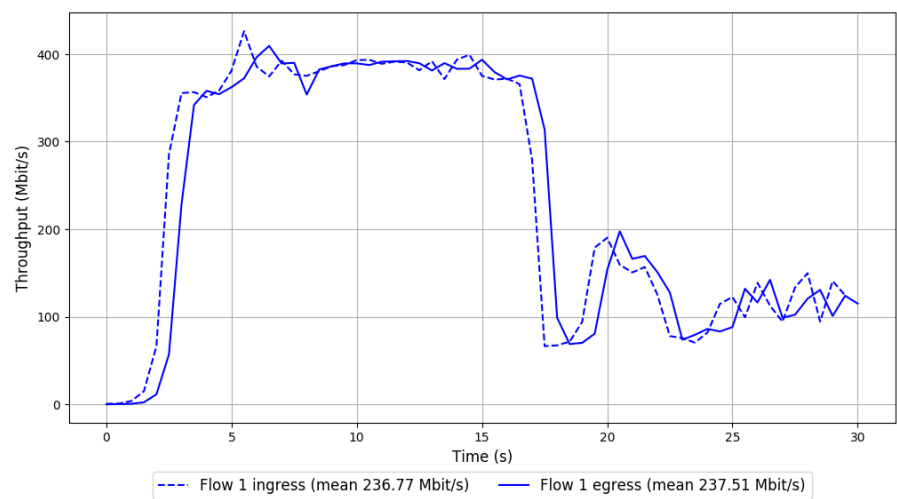


Run 2: Statistics of Copa

Start at: 2018-05-30 19:24:42  
End at: 2018-05-30 19:25:12  
Local clock offset: -0.502 ms  
Remote clock offset: -0.54 ms

# Below is generated by plot.py at 2018-05-30 22:36:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 237.51 Mbit/s  
95th percentile per-packet one-way delay: 127.675 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 237.51 Mbit/s  
95th percentile per-packet one-way delay: 127.675 ms  
Loss rate: 0.44%

Run 2: Report of Copa — Data Link



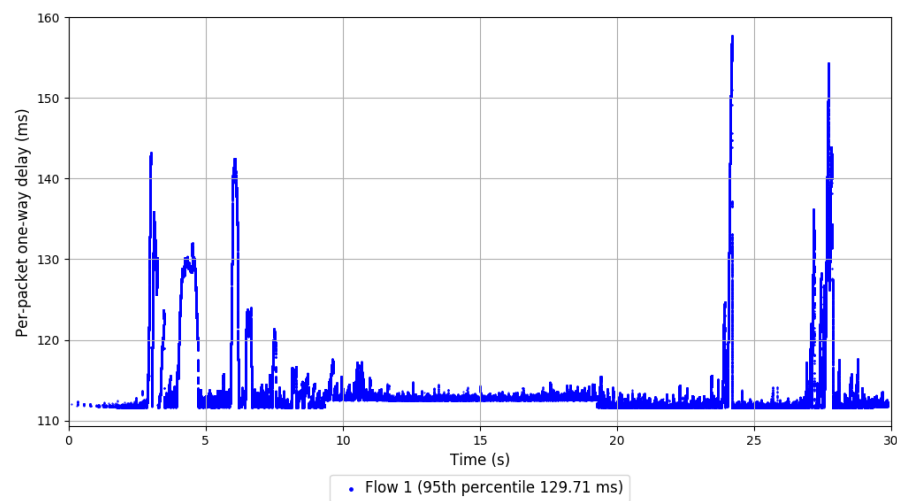
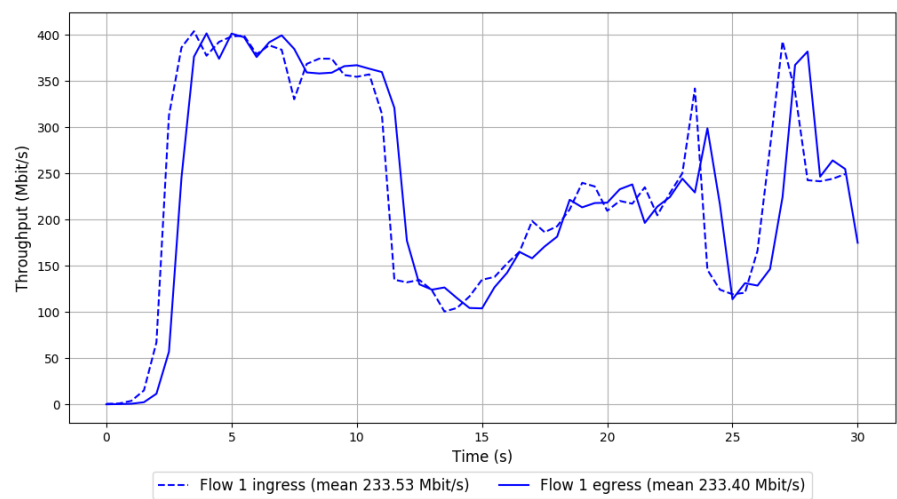
Run 3: Statistics of Copa

Start at: 2018-05-30 19:45:34  
End at: 2018-05-30 19:46:04  
Local clock offset: -0.637 ms  
Remote clock offset: -0.809 ms

# Below is generated by plot.py at 2018-05-30 22:36:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 233.40 Mbit/s  
95th percentile per-packet one-way delay: 129.711 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 233.40 Mbit/s  
95th percentile per-packet one-way delay: 129.711 ms  
Loss rate: 0.80%



Run 3: Report of Copa — Data Link

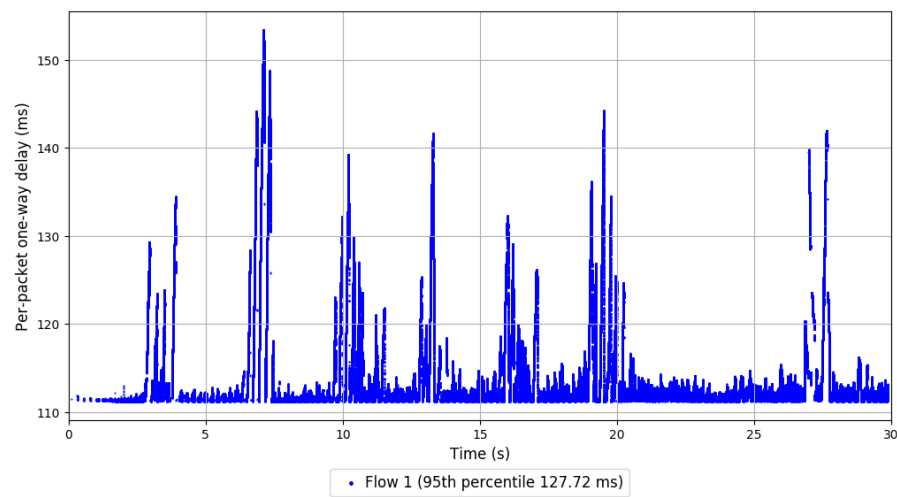
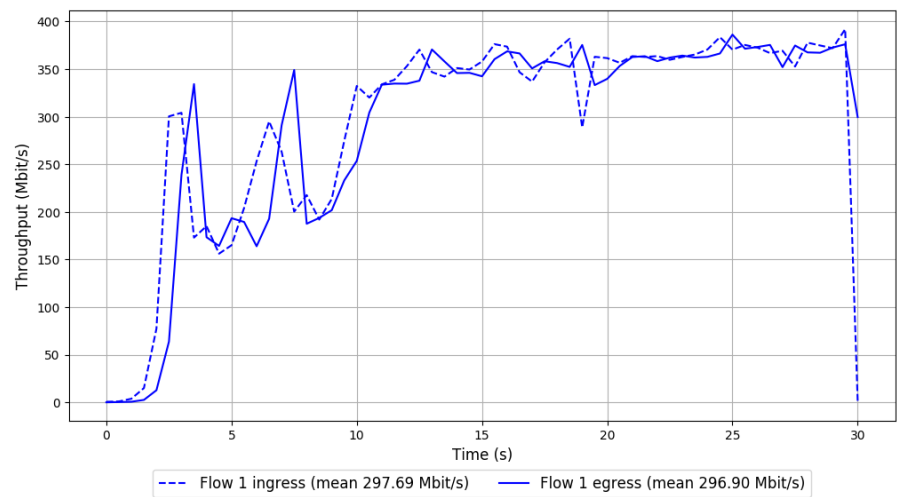


Run 4: Statistics of Copa

Start at: 2018-05-30 20:06:25  
End at: 2018-05-30 20:06:55  
Local clock offset: -0.594 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2018-05-30 22:38:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 296.90 Mbit/s  
95th percentile per-packet one-way delay: 127.723 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 296.90 Mbit/s  
95th percentile per-packet one-way delay: 127.723 ms  
Loss rate: 1.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-30 20:27:24

End at: 2018-05-30 20:27:54

Local clock offset: -0.183 ms

Remote clock offset: -0.3 ms

# Below is generated by plot.py at 2018-05-30 22:38:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 280.34 Mbit/s

95th percentile per-packet one-way delay: 193.576 ms

Loss rate: 1.28%

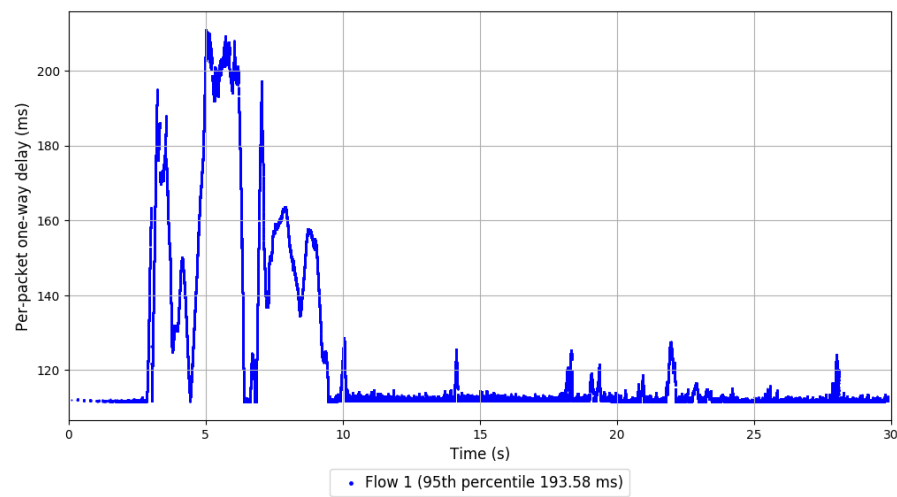
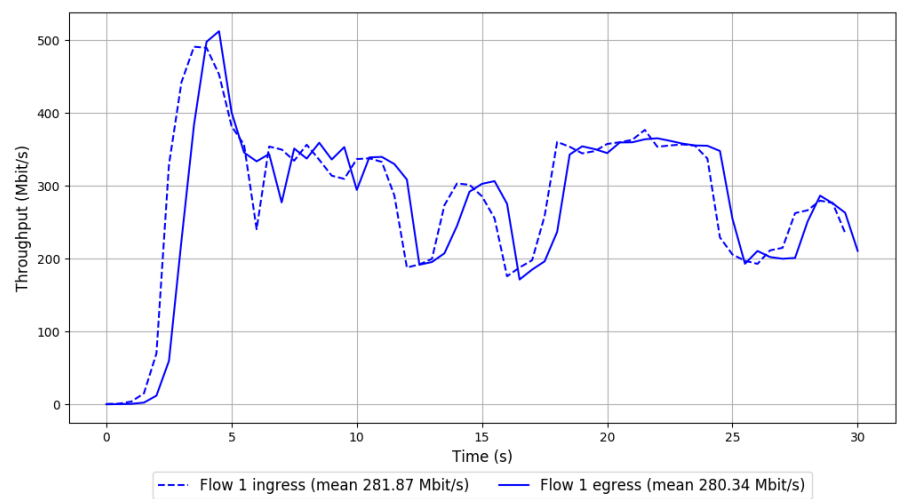
-- Flow 1:

Average throughput: 280.34 Mbit/s

95th percentile per-packet one-way delay: 193.576 ms

Loss rate: 1.28%

Run 5: Report of Copa — Data Link

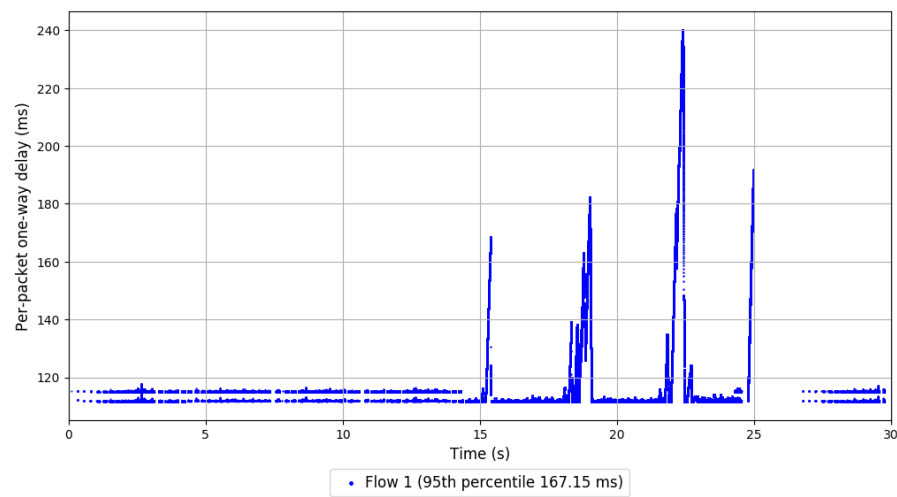
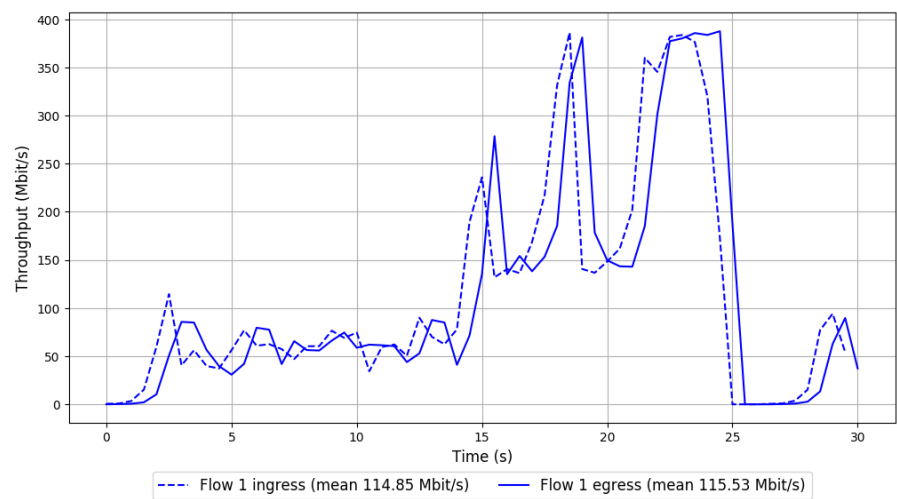


Run 6: Statistics of Copa

Start at: 2018-05-30 20:48:29  
End at: 2018-05-30 20:48:59  
Local clock offset: -0.231 ms  
Remote clock offset: -0.232 ms

# Below is generated by plot.py at 2018-05-30 22:38:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 115.53 Mbit/s  
95th percentile per-packet one-way delay: 167.150 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 115.53 Mbit/s  
95th percentile per-packet one-way delay: 167.150 ms  
Loss rate: 0.57%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-30 21:09:26

End at: 2018-05-30 21:09:56

Local clock offset: 0.092 ms

Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2018-05-30 22:38:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 114.780 ms

Loss rate: 1.08%

-- Flow 1:

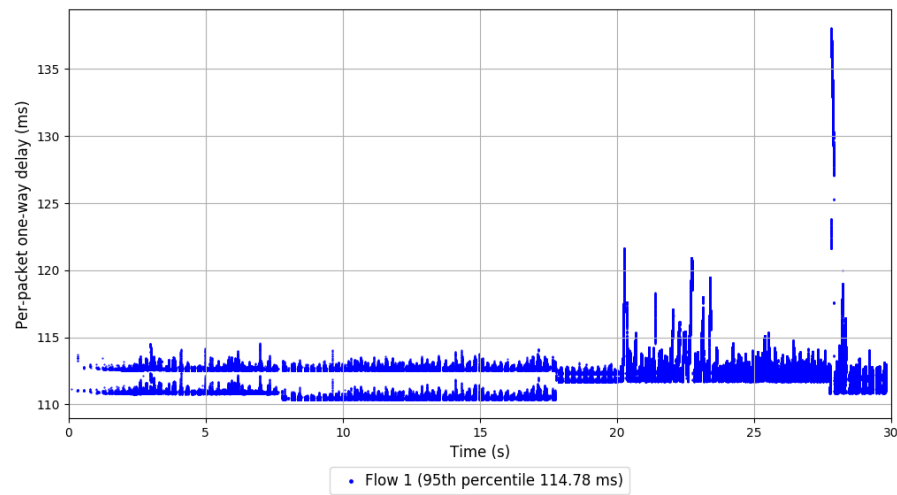
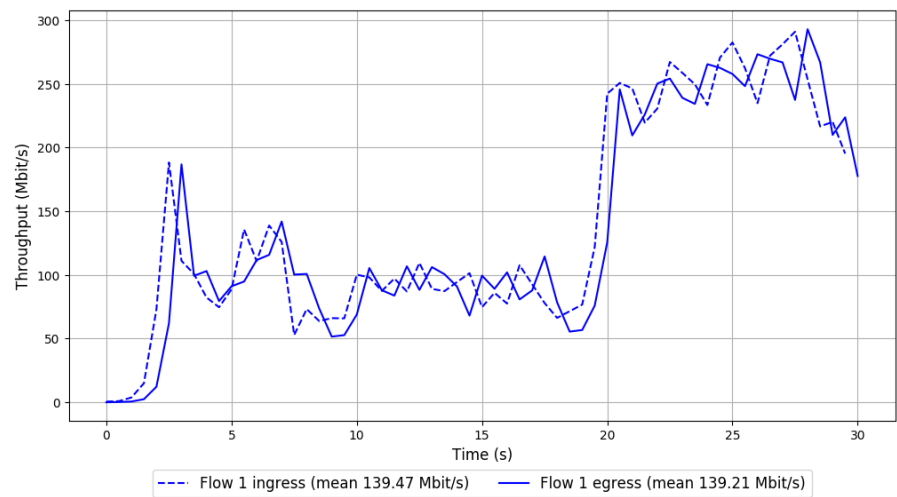
Average throughput: 139.21 Mbit/s

95th percentile per-packet one-way delay: 114.780 ms

Loss rate: 1.08%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-30 21:30:27

End at: 2018-05-30 21:30:57

Local clock offset: 0.003 ms

Remote clock offset: 0.822 ms

# Below is generated by plot.py at 2018-05-30 22:39:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 279.72 Mbit/s

95th percentile per-packet one-way delay: 120.938 ms

Loss rate: 0.86%

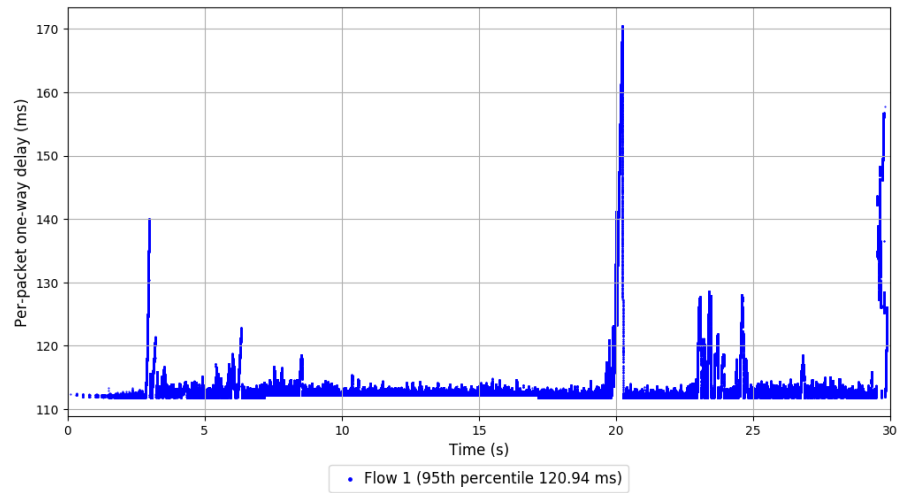
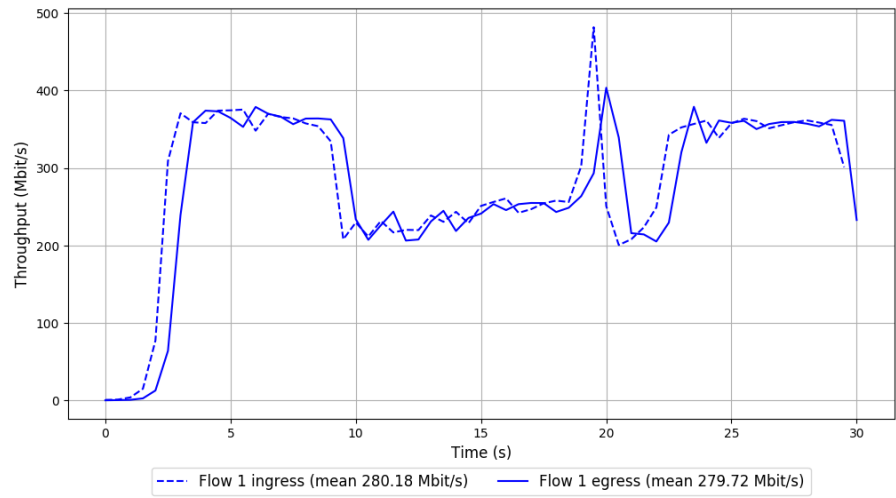
-- Flow 1:

Average throughput: 279.72 Mbit/s

95th percentile per-packet one-way delay: 120.938 ms

Loss rate: 0.86%

## Run 8: Report of Copa — Data Link

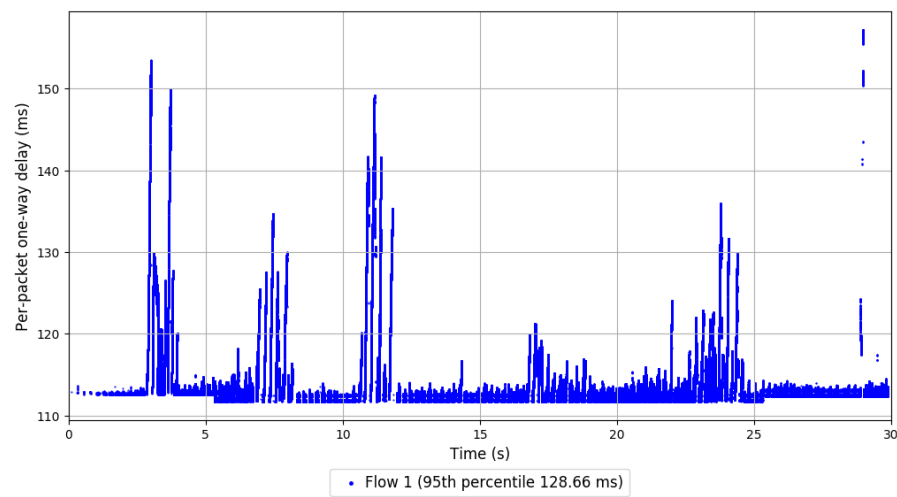
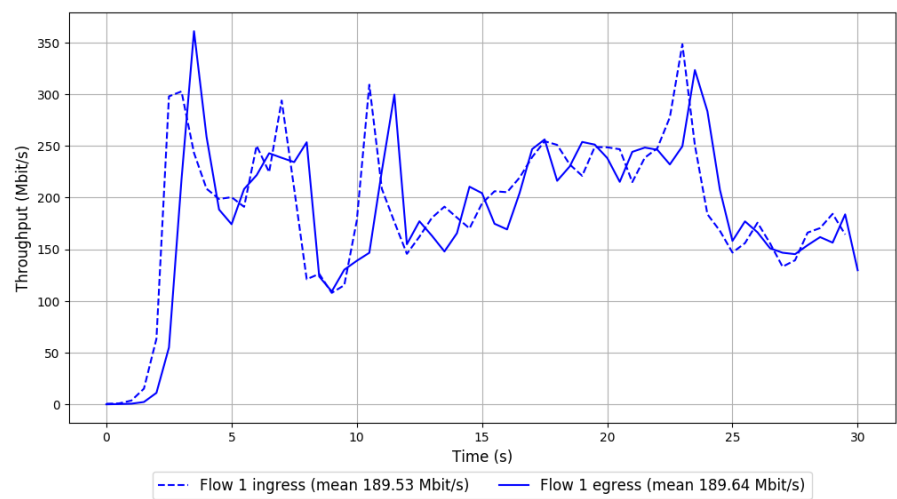


Run 9: Statistics of Copa

Start at: 2018-05-30 21:52:07  
End at: 2018-05-30 21:52:37  
Local clock offset: -0.191 ms  
Remote clock offset: -0.347 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 189.64 Mbit/s  
95th percentile per-packet one-way delay: 128.663 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 189.64 Mbit/s  
95th percentile per-packet one-way delay: 128.663 ms  
Loss rate: 0.69%

Run 9: Report of Copa — Data Link

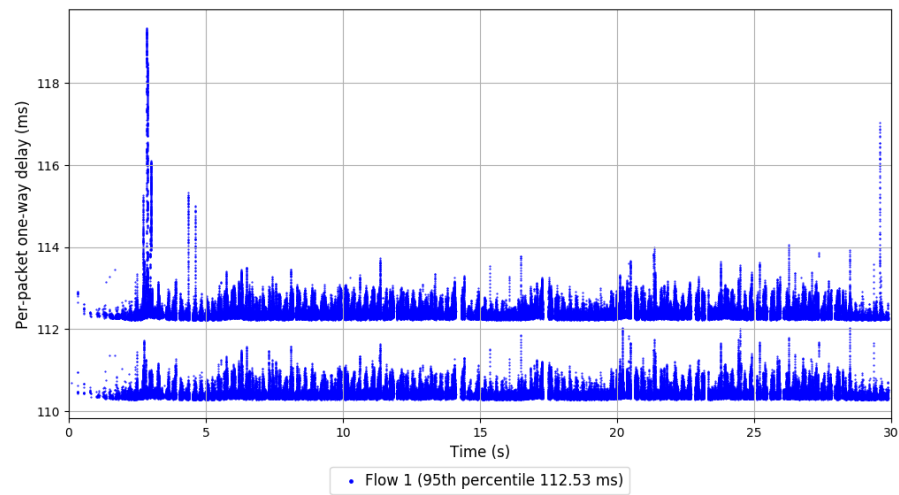
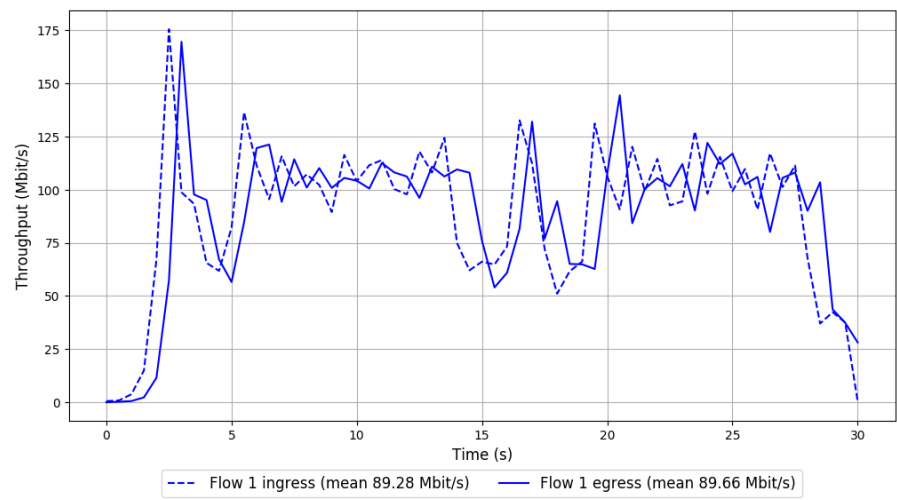


Run 10: Statistics of Copa

Start at: 2018-05-30 22:13:02  
End at: 2018-05-30 22:13:32  
Local clock offset: -0.157 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 89.66 Mbit/s  
95th percentile per-packet one-way delay: 112.526 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 89.66 Mbit/s  
95th percentile per-packet one-way delay: 112.526 ms  
Loss rate: 0.32%

Run 10: Report of Copa — Data Link



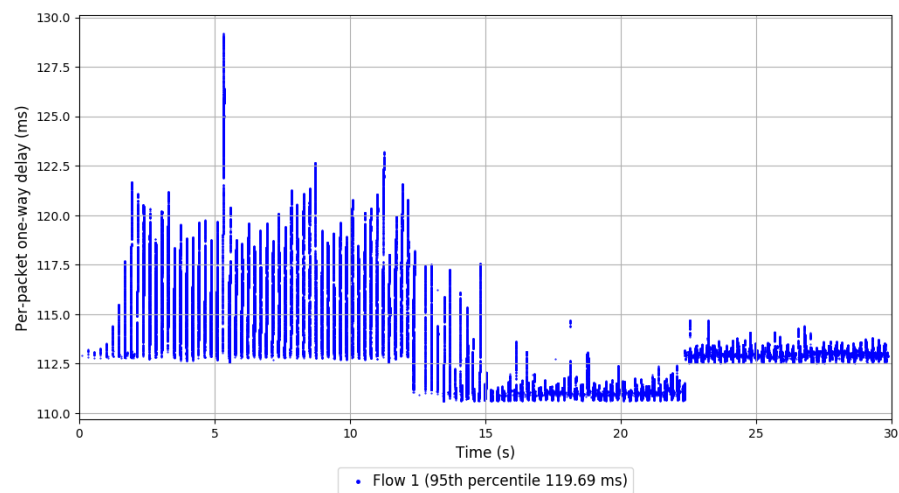
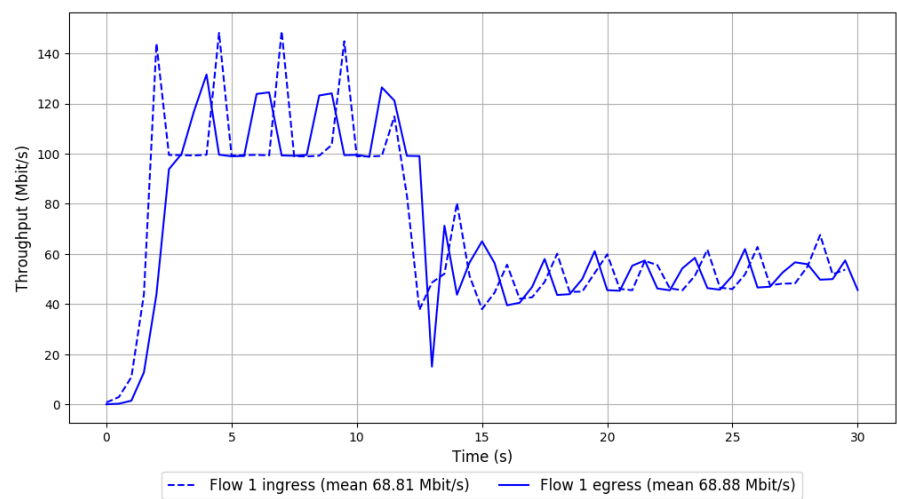
Run 1: Statistics of TCP Cubic

Start at: 2018-05-30 18:55:51  
End at: 2018-05-30 18:56:21  
Local clock offset: -0.615 ms  
Remote clock offset: -0.544 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.88 Mbit/s  
95th percentile per-packet one-way delay: 119.692 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 68.88 Mbit/s  
95th percentile per-packet one-way delay: 119.692 ms  
Loss rate: 0.64%



Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2018-05-30 19:16:46

End at: 2018-05-30 19:17:16

Local clock offset: -0.493 ms

Remote clock offset: -0.43 ms

# Below is generated by plot.py at 2018-05-30 22:39:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 115.797 ms

Loss rate: 0.51%

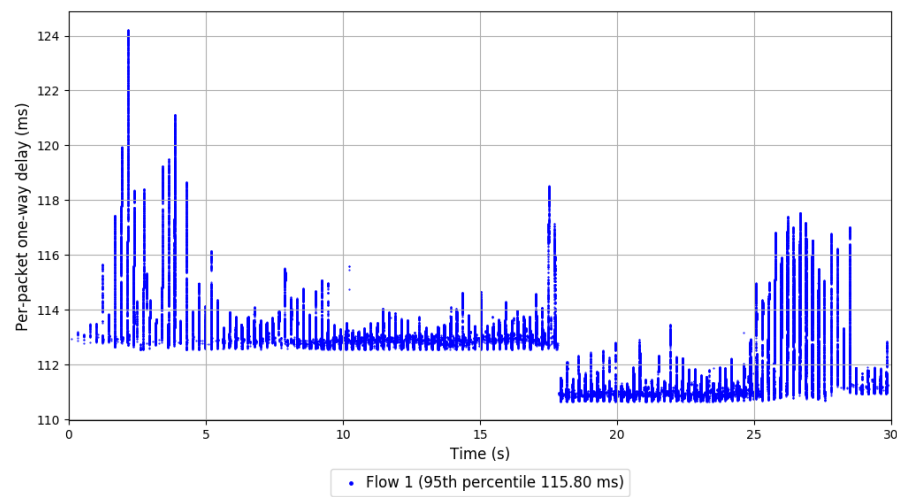
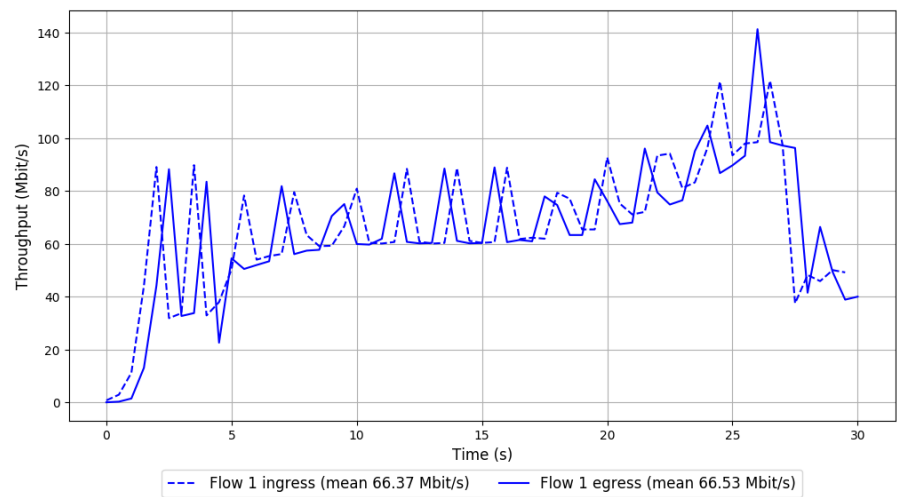
-- Flow 1:

Average throughput: 66.53 Mbit/s

95th percentile per-packet one-way delay: 115.797 ms

Loss rate: 0.51%

Run 2: Report of TCP Cubic — Data Link

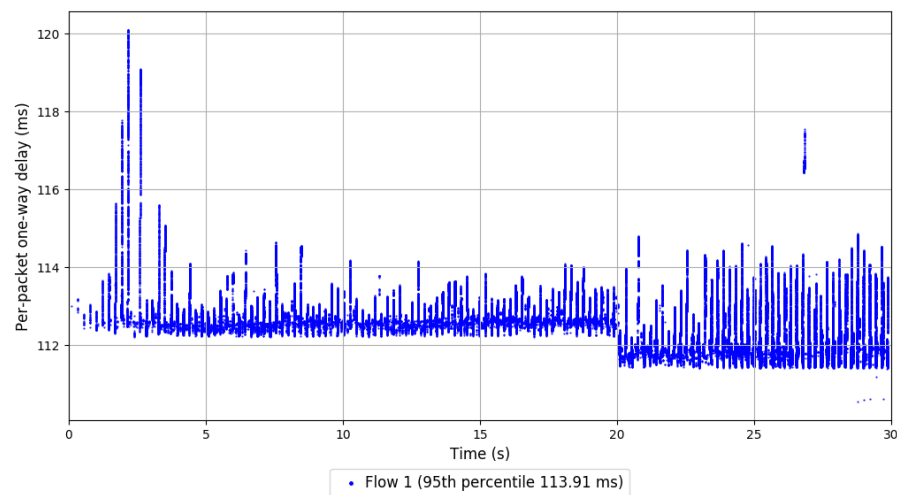
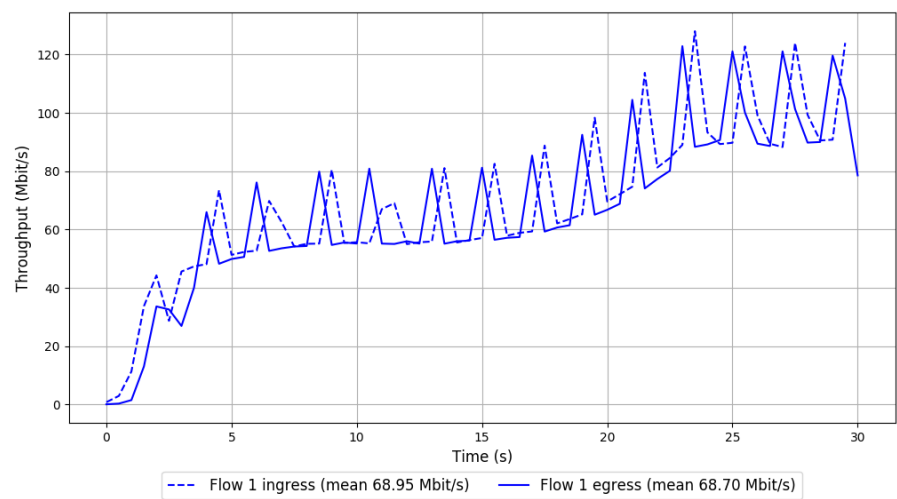


Run 3: Statistics of TCP Cubic

Start at: 2018-05-30 19:37:34  
End at: 2018-05-30 19:38:04  
Local clock offset: -0.857 ms  
Remote clock offset: -0.708 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 68.70 Mbit/s  
95th percentile per-packet one-way delay: 113.911 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 68.70 Mbit/s  
95th percentile per-packet one-way delay: 113.911 ms  
Loss rate: 1.11%

Run 3: Report of TCP Cubic — Data Link

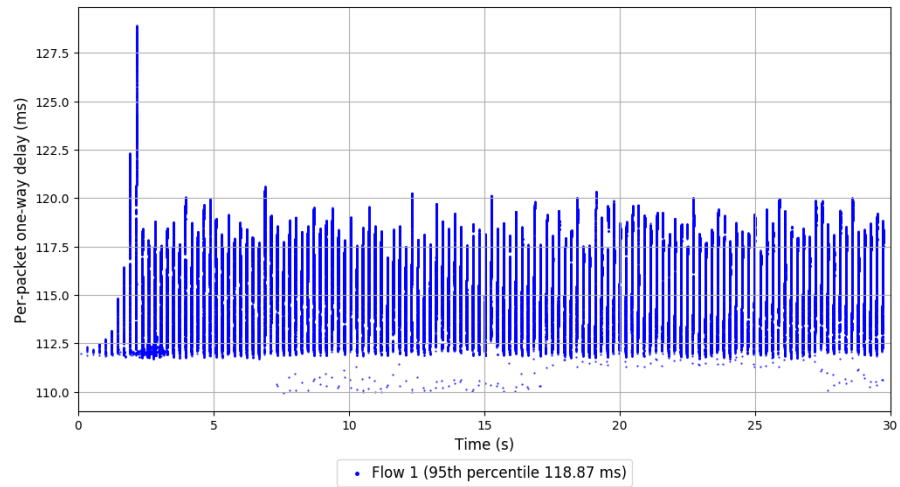
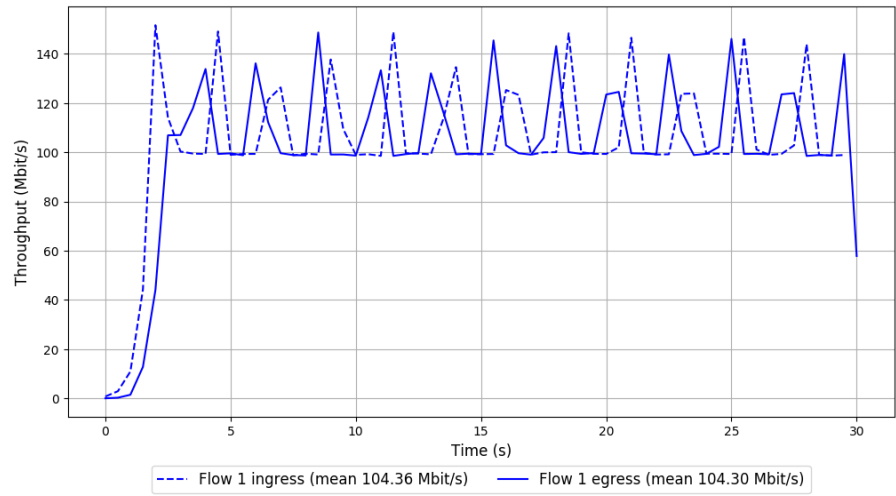


Run 4: Statistics of TCP Cubic

Start at: 2018-05-30 19:58:26  
End at: 2018-05-30 19:58:56  
Local clock offset: -0.708 ms  
Remote clock offset: -0.888 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 104.30 Mbit/s  
95th percentile per-packet one-way delay: 118.870 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 104.30 Mbit/s  
95th percentile per-packet one-way delay: 118.870 ms  
Loss rate: 0.79%

#### Run 4: Report of TCP Cubic — Data Link



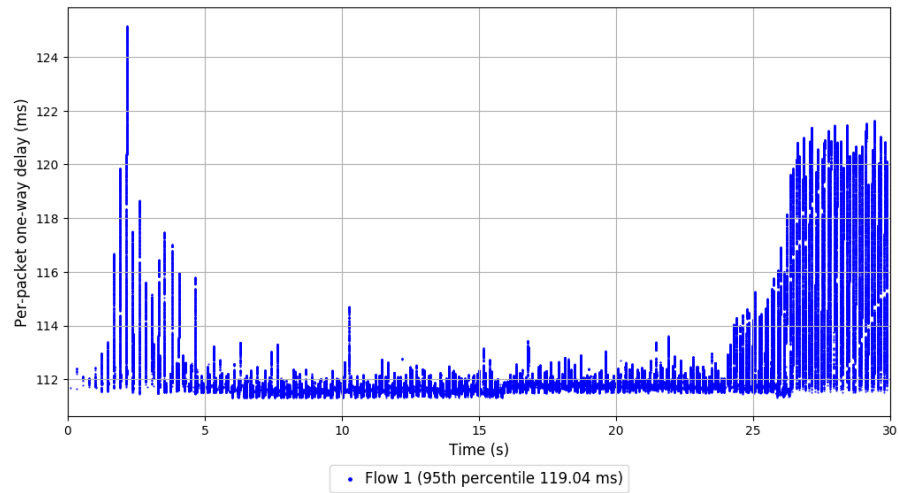
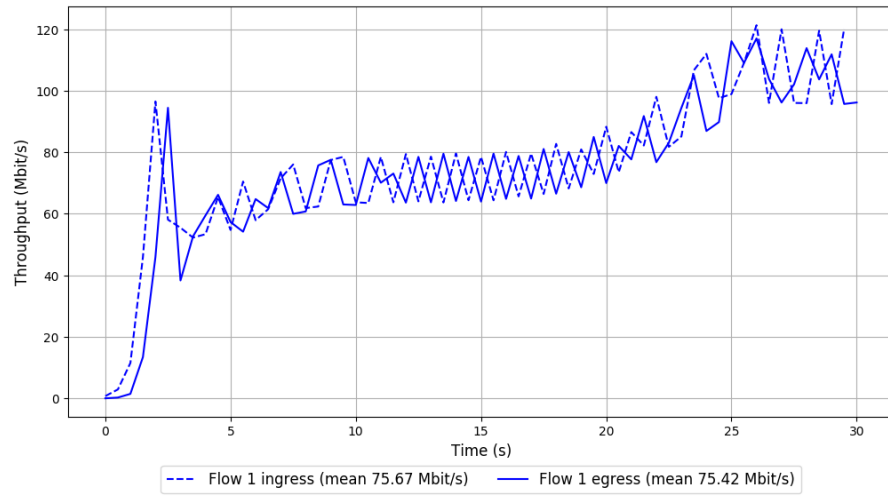
Run 5: Statistics of TCP Cubic

Start at: 2018-05-30 20:19:28  
End at: 2018-05-30 20:19:58  
Local clock offset: -0.171 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.42 Mbit/s  
95th percentile per-packet one-way delay: 119.037 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 75.42 Mbit/s  
95th percentile per-packet one-way delay: 119.037 ms  
Loss rate: 1.06%



### Run 5: Report of TCP Cubic — Data Link

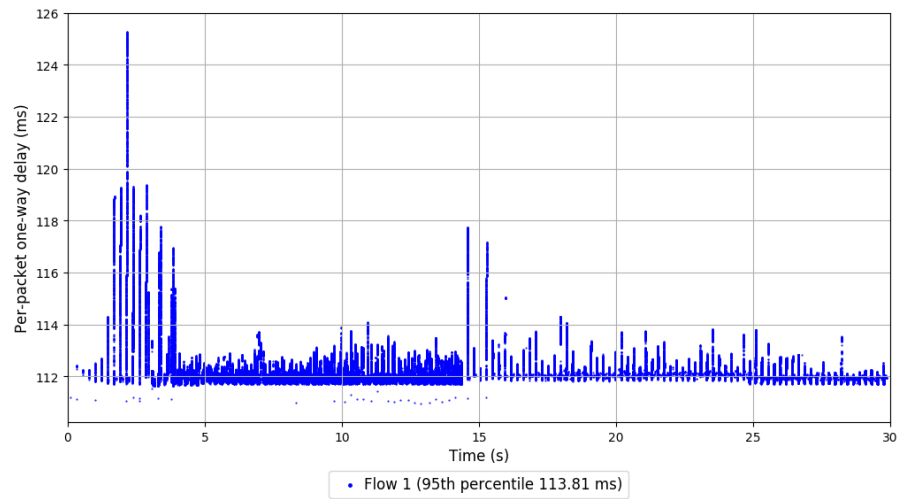
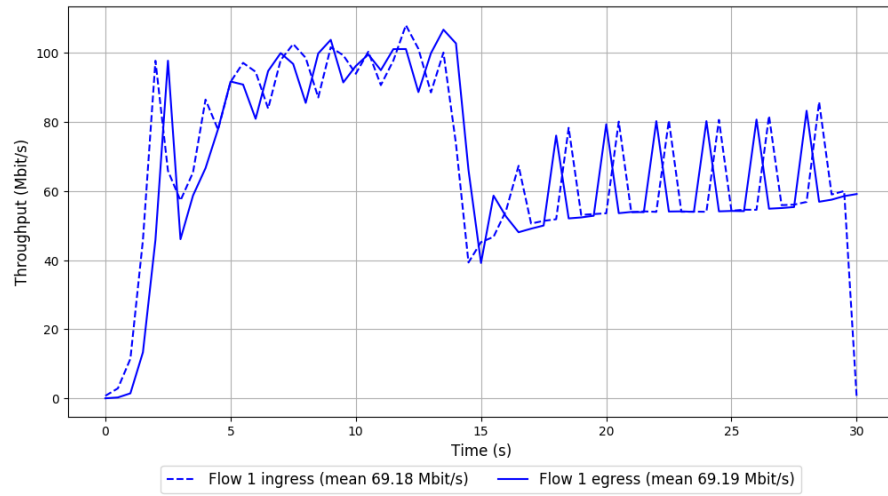


Run 6: Statistics of TCP Cubic

Start at: 2018-05-30 20:40:29  
End at: 2018-05-30 20:40:59  
Local clock offset: -0.148 ms  
Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2018-05-30 22:39:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 69.19 Mbit/s  
95th percentile per-packet one-way delay: 113.811 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 69.19 Mbit/s  
95th percentile per-packet one-way delay: 113.811 ms  
Loss rate: 0.73%

## Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-05-30 21:01:22

End at: 2018-05-30 21:01:52

Local clock offset: -0.223 ms

Remote clock offset: 0.282 ms

# Below is generated by plot.py at 2018-05-30 22:39:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 118.186 ms

Loss rate: 1.06%

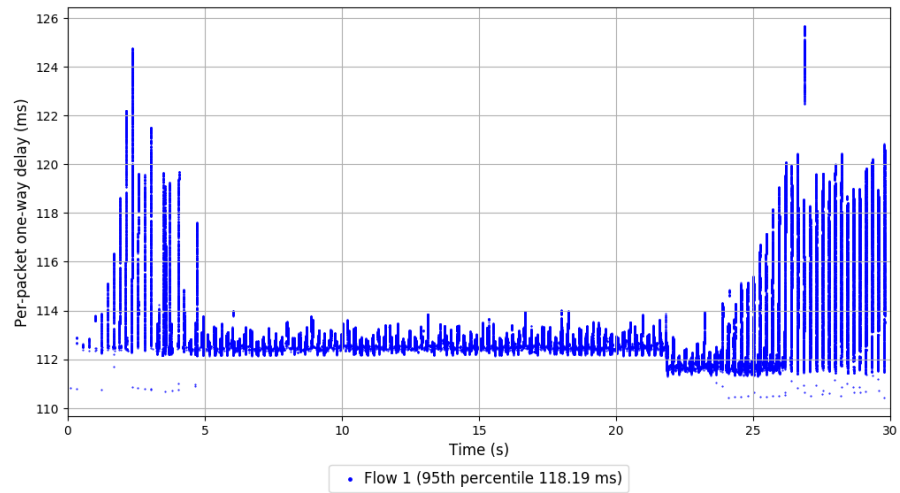
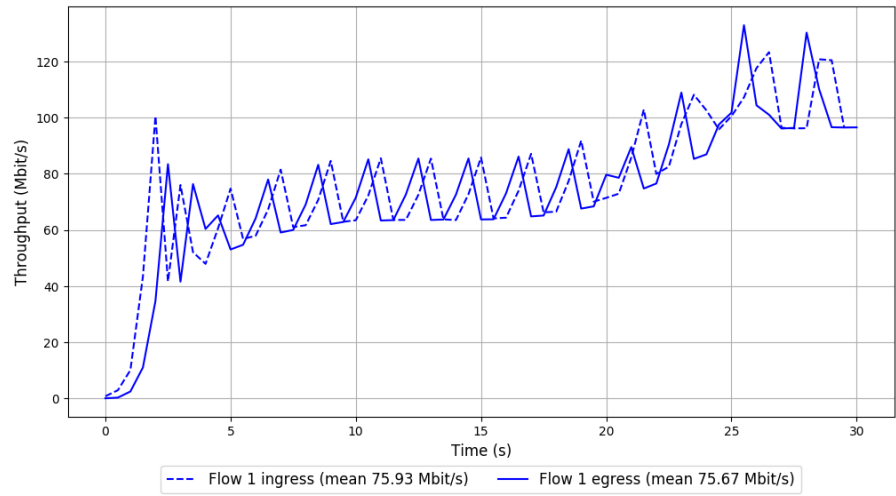
-- Flow 1:

Average throughput: 75.67 Mbit/s

95th percentile per-packet one-way delay: 118.186 ms

Loss rate: 1.06%

### Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-30 21:22:24

End at: 2018-05-30 21:22:54

Local clock offset: 0.062 ms

Remote clock offset: 0.399 ms

# Below is generated by plot.py at 2018-05-30 22:39:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 103.26 Mbit/s

95th percentile per-packet one-way delay: 120.878 ms

Loss rate: 0.80%

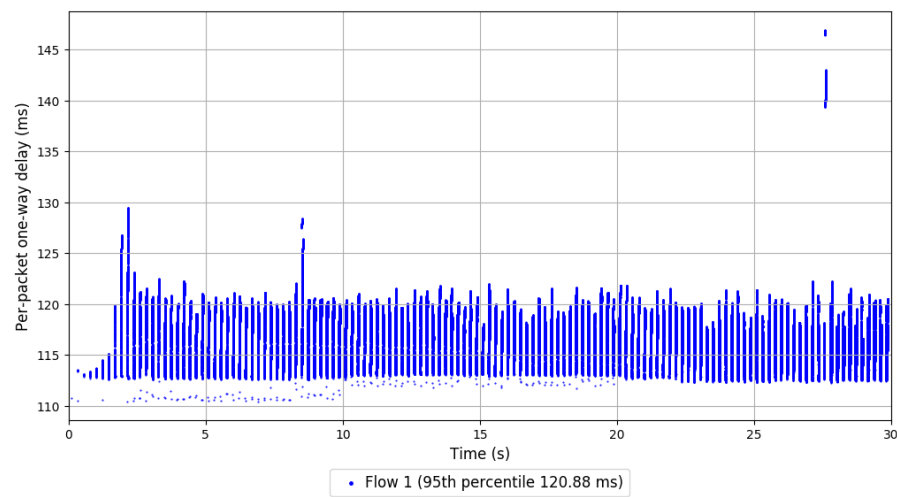
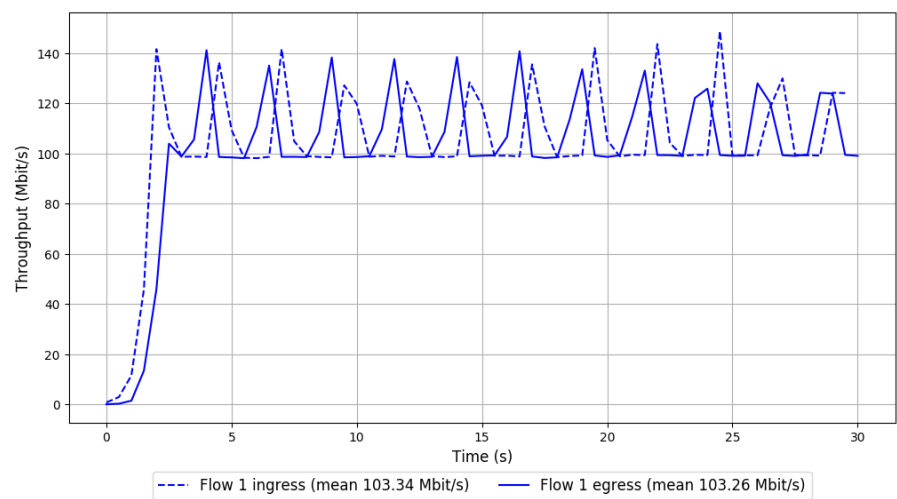
-- Flow 1:

Average throughput: 103.26 Mbit/s

95th percentile per-packet one-way delay: 120.878 ms

Loss rate: 0.80%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-30 21:43:50

End at: 2018-05-30 21:44:20

Local clock offset: -0.236 ms

Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2018-05-30 22:39:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 119.295 ms

Loss rate: 1.11%

-- Flow 1:

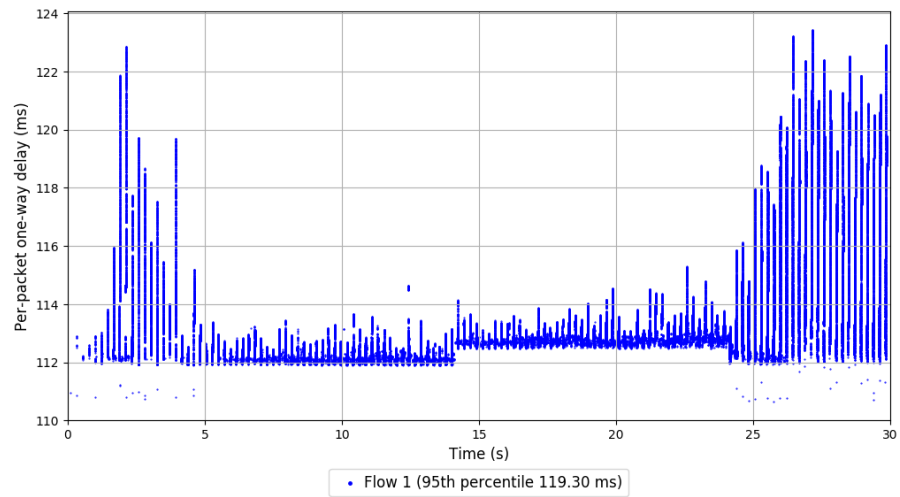
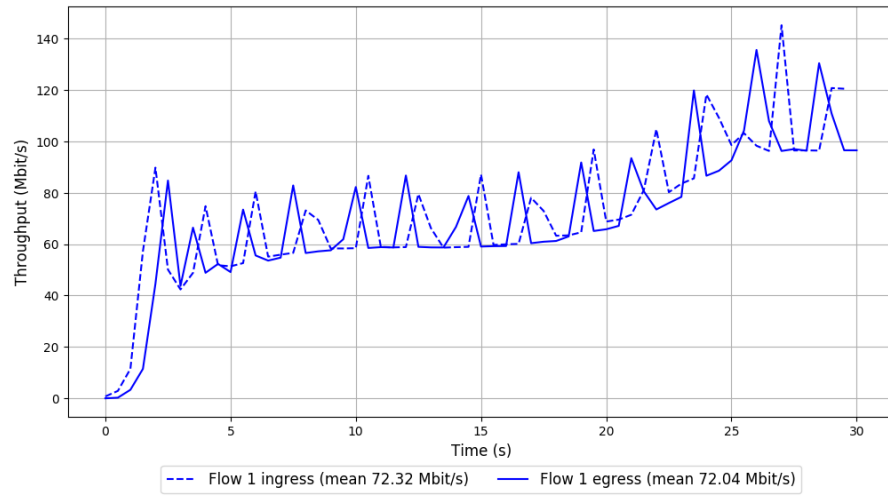
Average throughput: 72.04 Mbit/s

95th percentile per-packet one-way delay: 119.295 ms

Loss rate: 1.11%



### Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-30 22:04:58

End at: 2018-05-30 22:05:28

Local clock offset: 0.014 ms

Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-30 22:39:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 118.233 ms

Loss rate: 1.33%

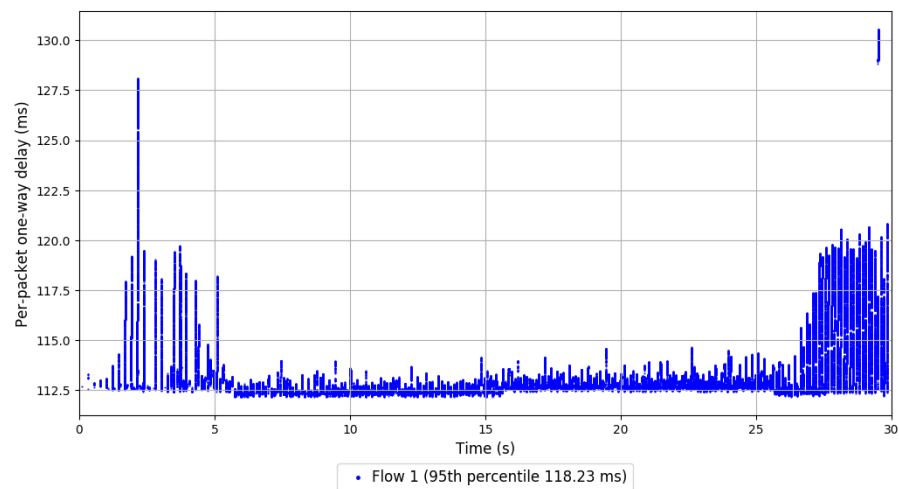
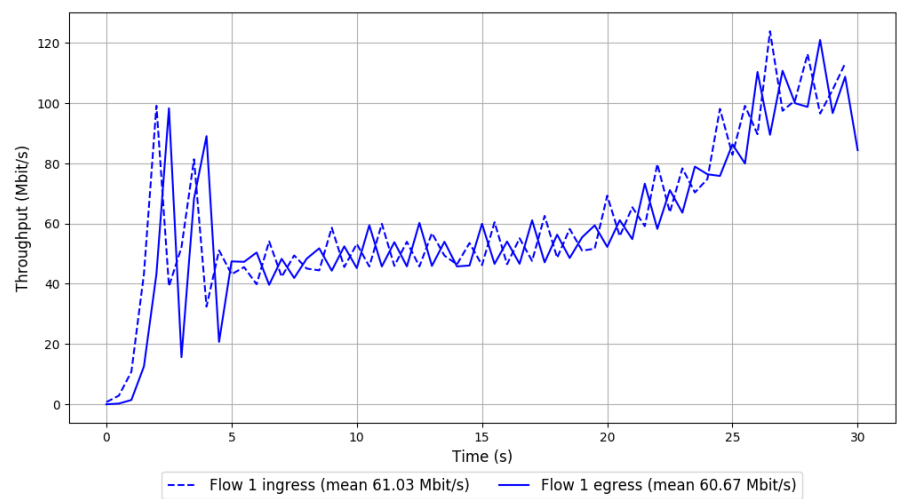
-- Flow 1:

Average throughput: 60.67 Mbit/s

95th percentile per-packet one-way delay: 118.233 ms

Loss rate: 1.33%

Run 10: Report of TCP Cubic — Data Link

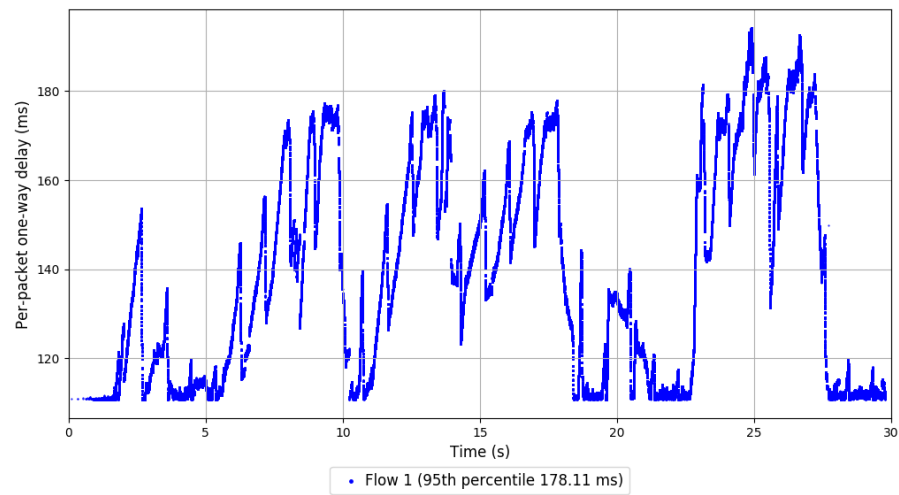
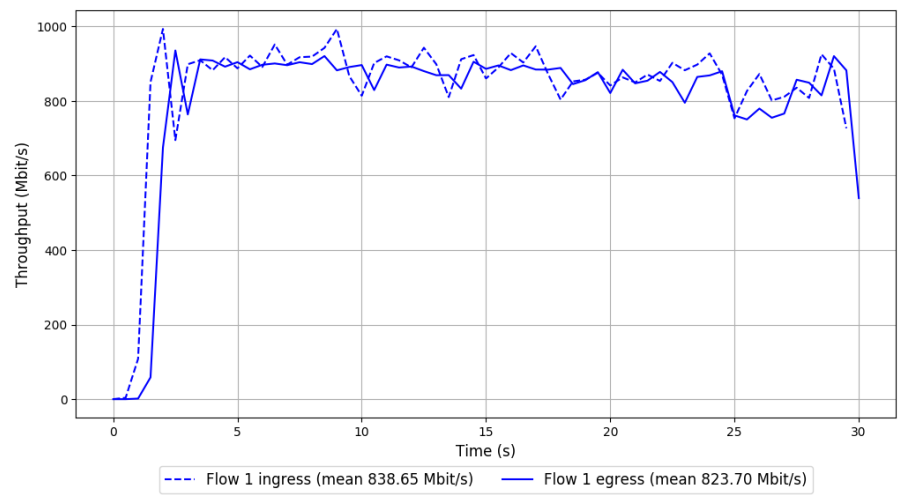


Run 1: Statistics of FillP

Start at: 2018-05-30 18:57:03  
End at: 2018-05-30 18:57:33  
Local clock offset: -0.595 ms  
Remote clock offset: -0.838 ms

# Below is generated by plot.py at 2018-05-30 22:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 823.70 Mbit/s  
95th percentile per-packet one-way delay: 178.113 ms  
Loss rate: 2.52%  
-- Flow 1:  
Average throughput: 823.70 Mbit/s  
95th percentile per-packet one-way delay: 178.113 ms  
Loss rate: 2.52%

Run 1: Report of FillP — Data Link

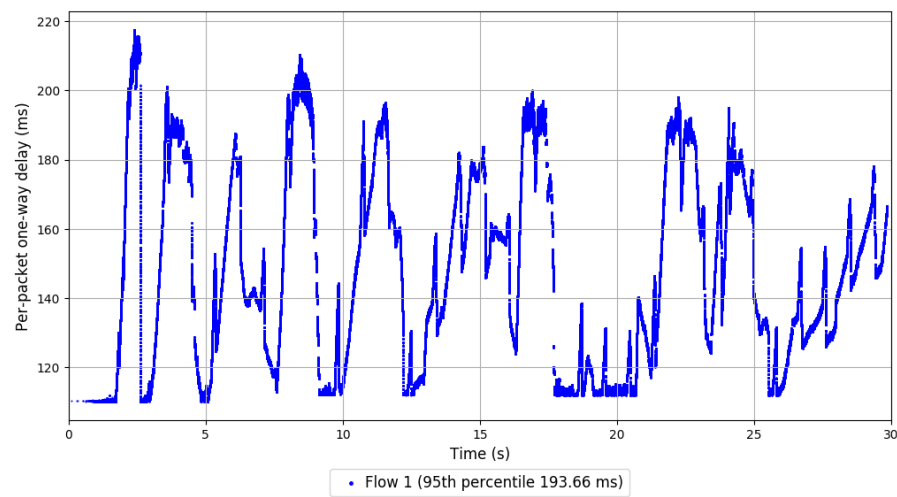
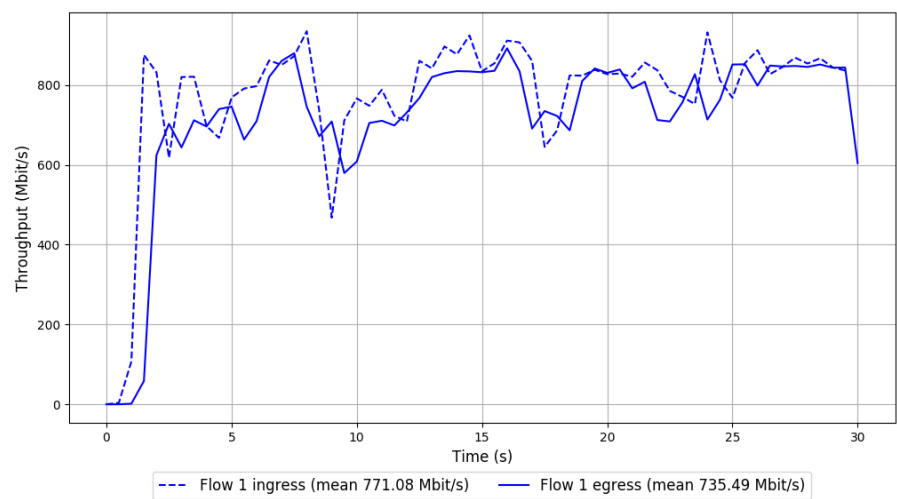


Run 2: Statistics of FillP

Start at: 2018-05-30 19:17:57  
End at: 2018-05-30 19:18:27  
Local clock offset: -0.508 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-30 22:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 735.49 Mbit/s  
95th percentile per-packet one-way delay: 193.656 ms  
Loss rate: 5.32%  
-- Flow 1:  
Average throughput: 735.49 Mbit/s  
95th percentile per-packet one-way delay: 193.656 ms  
Loss rate: 5.32%

Run 2: Report of FillP — Data Link



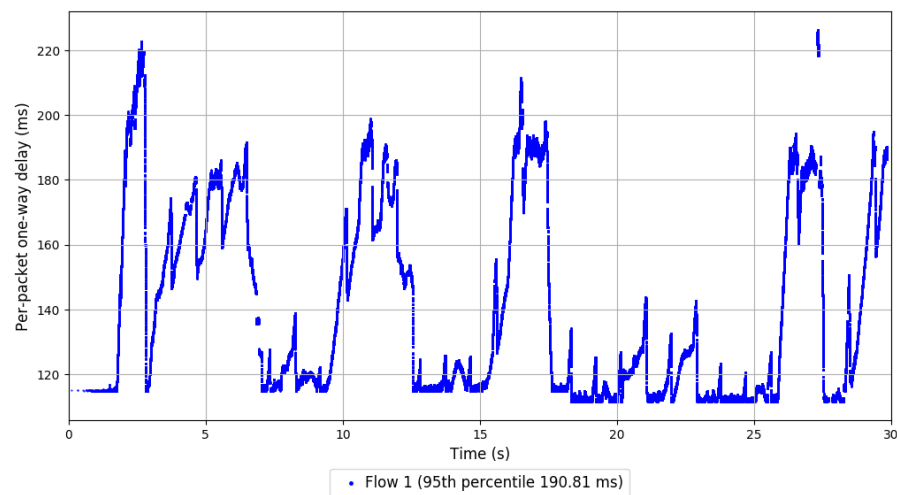
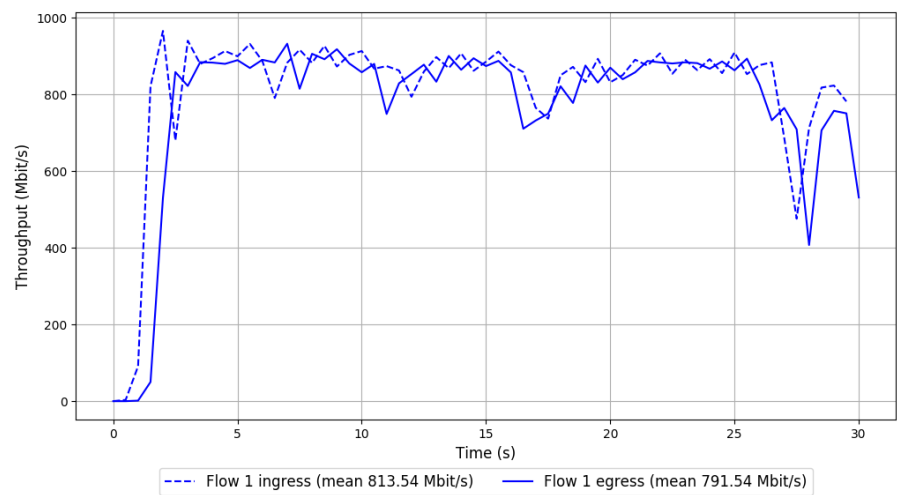
Run 3: Statistics of FillP

Start at: 2018-05-30 19:38:45  
End at: 2018-05-30 19:39:15  
Local clock offset: -0.782 ms  
Remote clock offset: -0.703 ms

# Below is generated by plot.py at 2018-05-30 22:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 791.54 Mbit/s  
95th percentile per-packet one-way delay: 190.808 ms  
Loss rate: 3.44%  
-- Flow 1:  
Average throughput: 791.54 Mbit/s  
95th percentile per-packet one-way delay: 190.808 ms  
Loss rate: 3.44%



Run 3: Report of FillP — Data Link

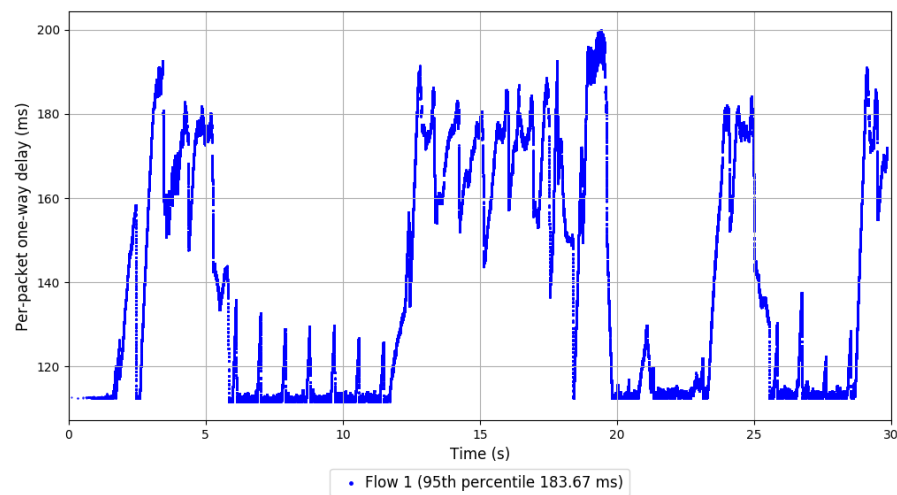
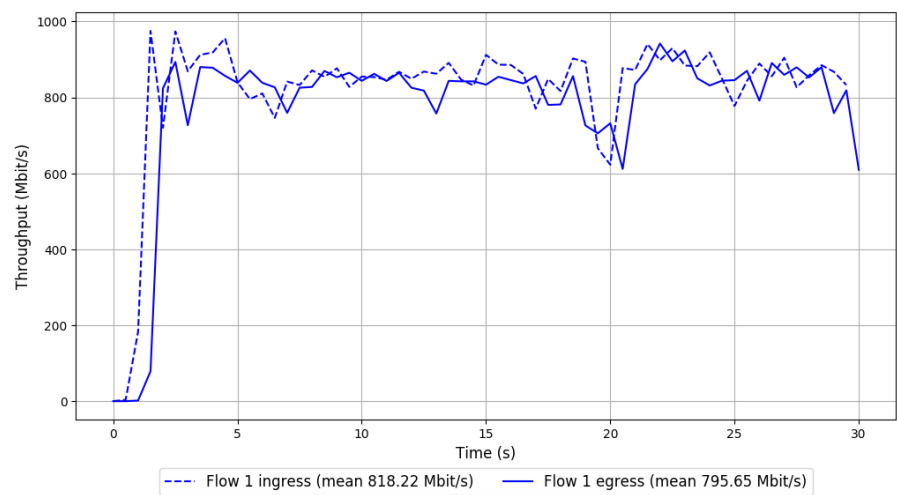


Run 4: Statistics of FillP

Start at: 2018-05-30 19:59:40  
End at: 2018-05-30 20:00:10  
Local clock offset: -0.843 ms  
Remote clock offset: -0.751 ms

# Below is generated by plot.py at 2018-05-30 22:54:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 795.65 Mbit/s  
95th percentile per-packet one-way delay: 183.673 ms  
Loss rate: 3.48%  
-- Flow 1:  
Average throughput: 795.65 Mbit/s  
95th percentile per-packet one-way delay: 183.673 ms  
Loss rate: 3.48%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-05-30 20:20:40

End at: 2018-05-30 20:21:10

Local clock offset: -0.134 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-30 22:54:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 746.61 Mbit/s

95th percentile per-packet one-way delay: 198.349 ms

Loss rate: 5.11%

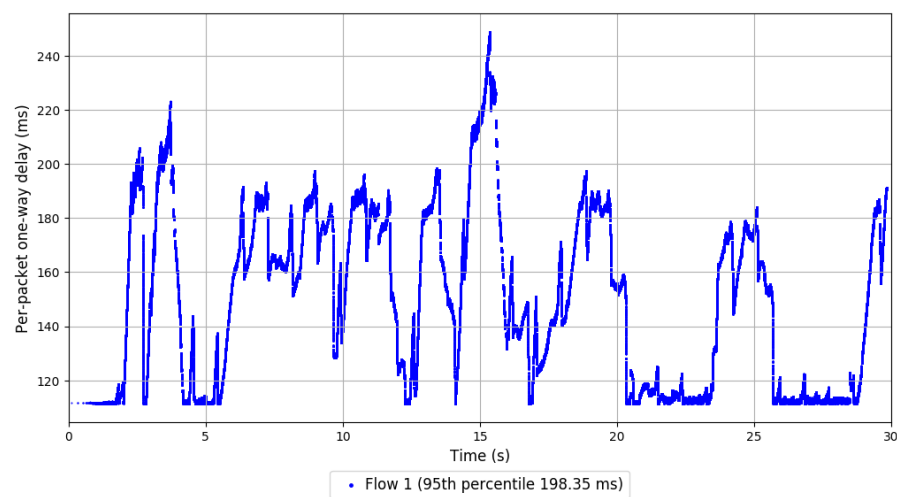
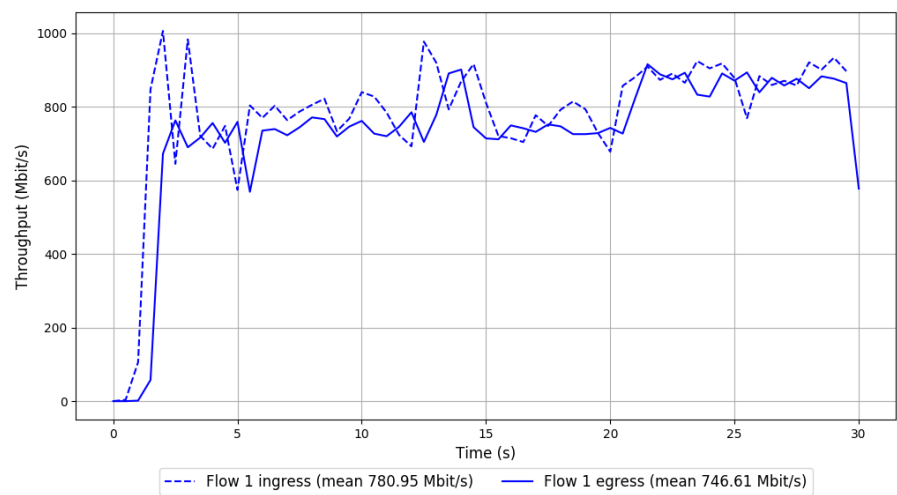
-- Flow 1:

Average throughput: 746.61 Mbit/s

95th percentile per-packet one-way delay: 198.349 ms

Loss rate: 5.11%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-30 20:41:41

End at: 2018-05-30 20:42:11

Local clock offset: 0.096 ms

Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2018-05-30 22:55:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 843.96 Mbit/s

95th percentile per-packet one-way delay: 176.486 ms

Loss rate: 3.70%

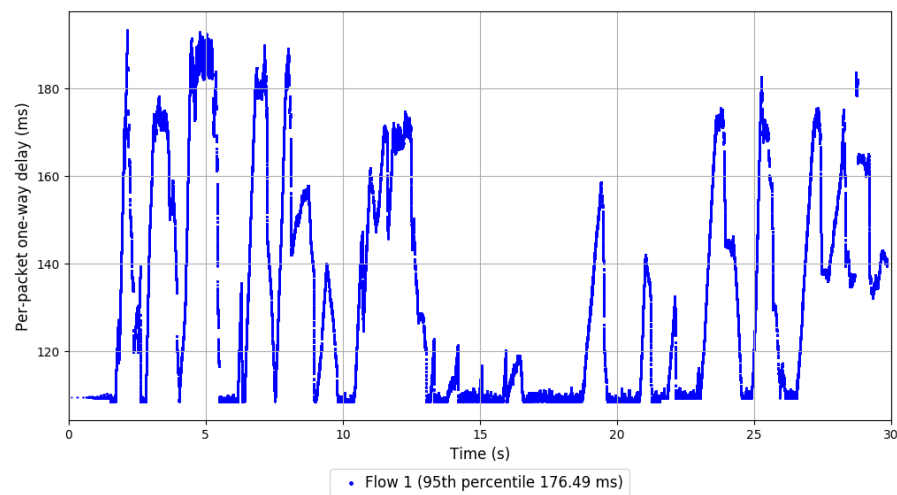
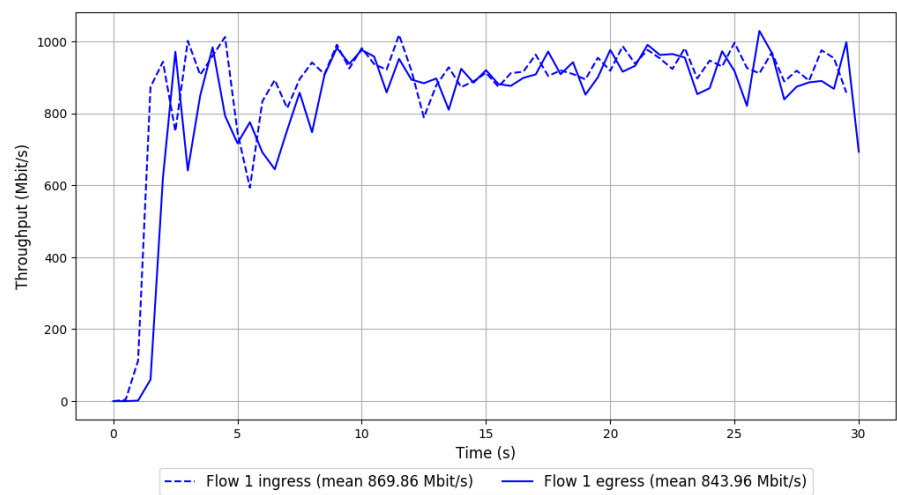
-- Flow 1:

Average throughput: 843.96 Mbit/s

95th percentile per-packet one-way delay: 176.486 ms

Loss rate: 3.70%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-30 21:02:34

End at: 2018-05-30 21:03:04

Local clock offset: 0.001 ms

Remote clock offset: 0.216 ms

# Below is generated by plot.py at 2018-05-30 22:55:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 873.06 Mbit/s

95th percentile per-packet one-way delay: 207.623 ms

Loss rate: 1.24%

-- Flow 1:

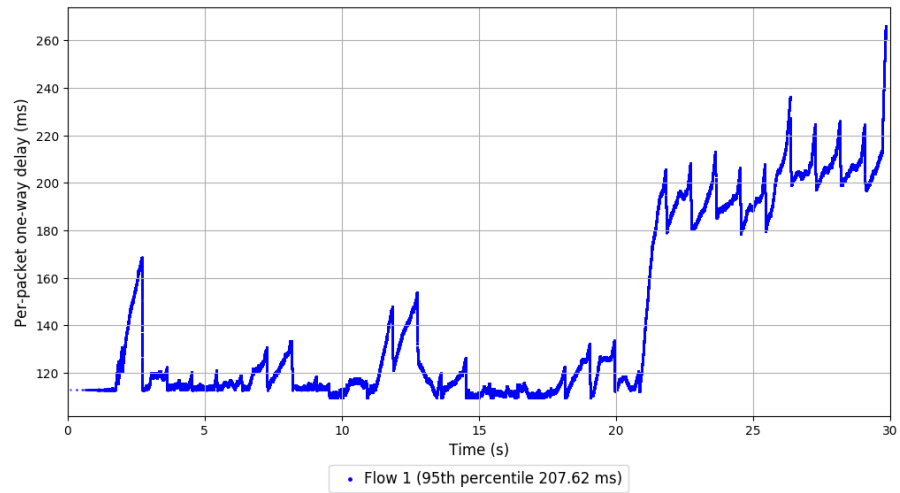
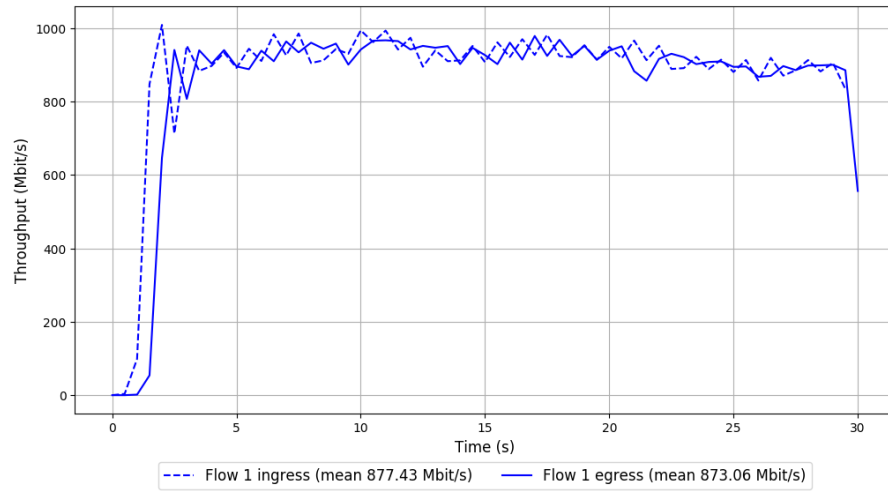
Average throughput: 873.06 Mbit/s

95th percentile per-packet one-way delay: 207.623 ms

Loss rate: 1.24%



## Run 7: Report of FillP — Data Link

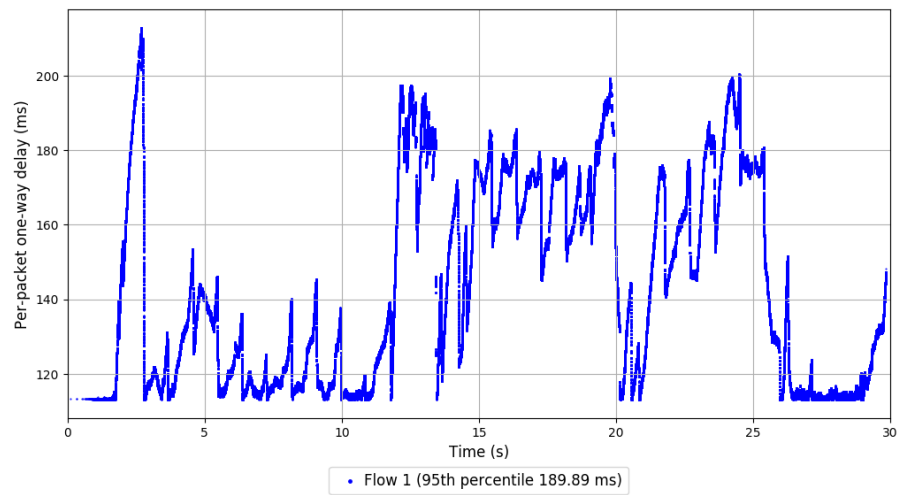
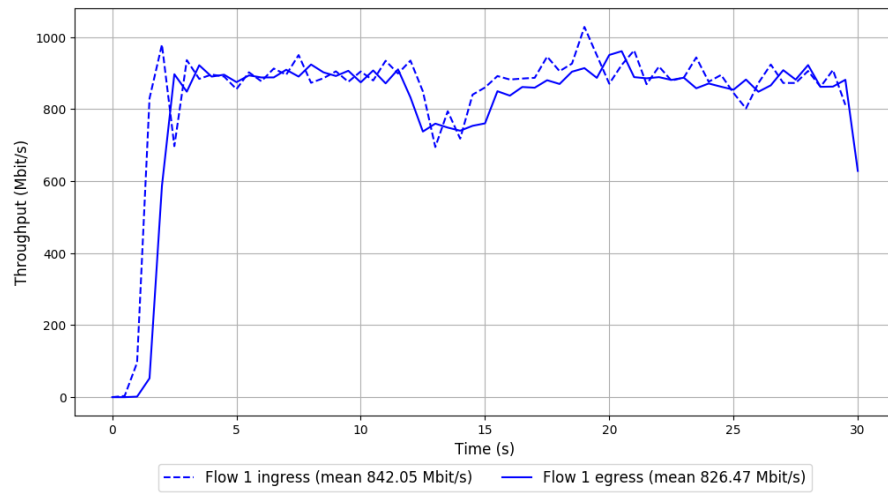


Run 8: Statistics of FillP

Start at: 2018-05-30 21:23:37  
End at: 2018-05-30 21:24:07  
Local clock offset: -0.012 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-30 22:55:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 826.47 Mbit/s  
95th percentile per-packet one-way delay: 189.892 ms  
Loss rate: 2.58%  
-- Flow 1:  
Average throughput: 826.47 Mbit/s  
95th percentile per-packet one-way delay: 189.892 ms  
Loss rate: 2.58%

### Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-30 21:45:14

End at: 2018-05-30 21:45:44

Local clock offset: -0.041 ms

Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2018-05-30 23:08:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 859.26 Mbit/s

95th percentile per-packet one-way delay: 191.427 ms

Loss rate: 3.10%

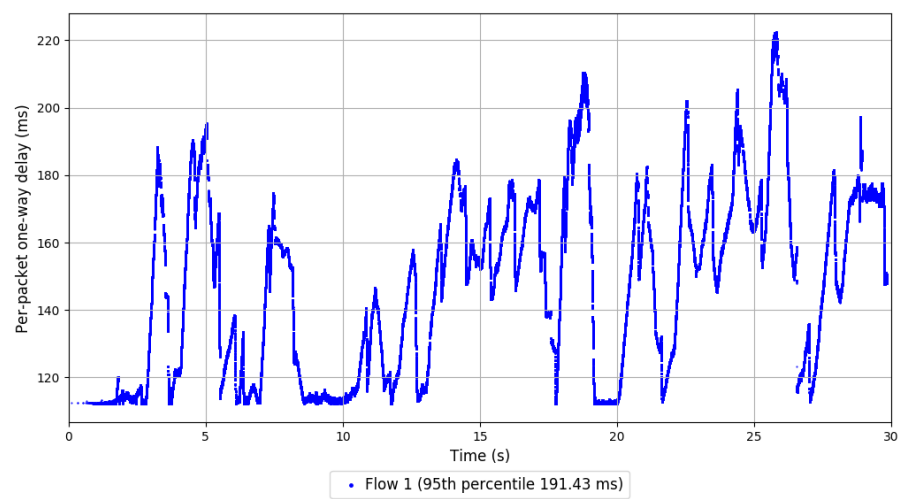
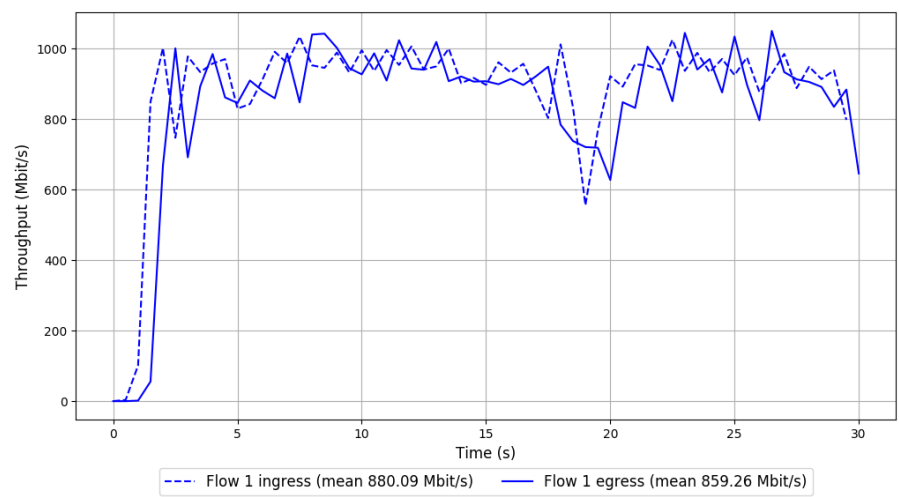
-- Flow 1:

Average throughput: 859.26 Mbit/s

95th percentile per-packet one-way delay: 191.427 ms

Loss rate: 3.10%

Run 9: Report of FillP — Data Link

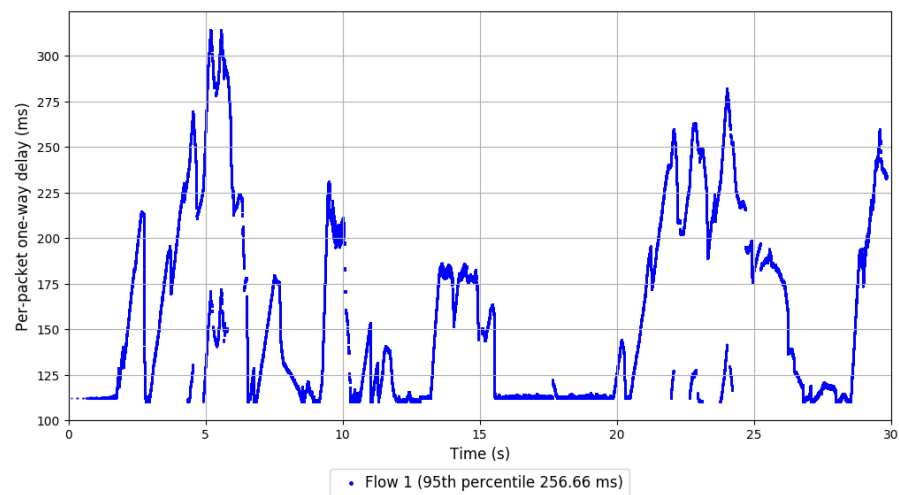
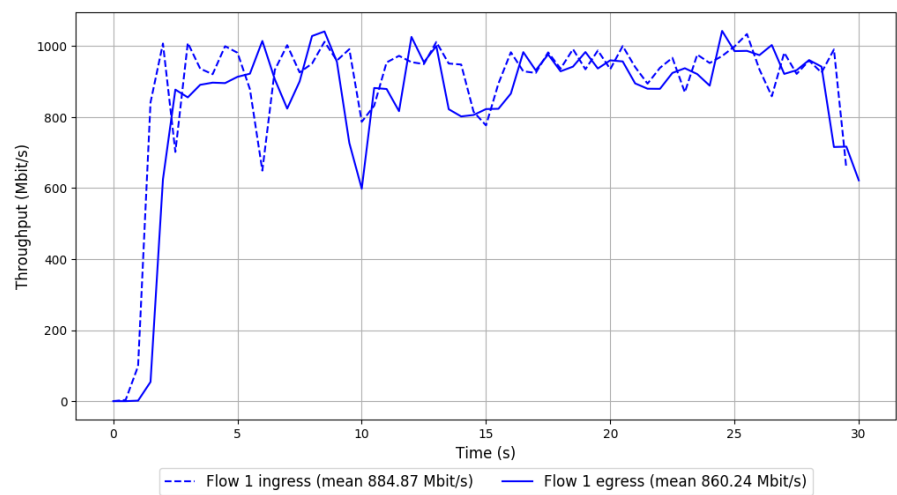


Run 10: Statistics of FillP

Start at: 2018-05-30 22:06:09  
End at: 2018-05-30 22:06:39  
Local clock offset: -0.317 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 860.24 Mbit/s  
95th percentile per-packet one-way delay: 256.663 ms  
Loss rate: 3.51%  
-- Flow 1:  
Average throughput: 860.24 Mbit/s  
95th percentile per-packet one-way delay: 256.663 ms  
Loss rate: 3.51%

Run 10: Report of FillP — Data Link



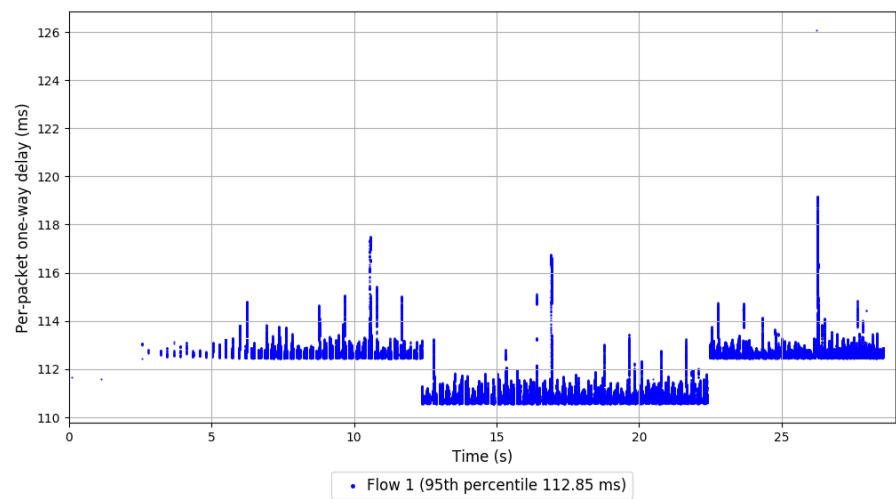
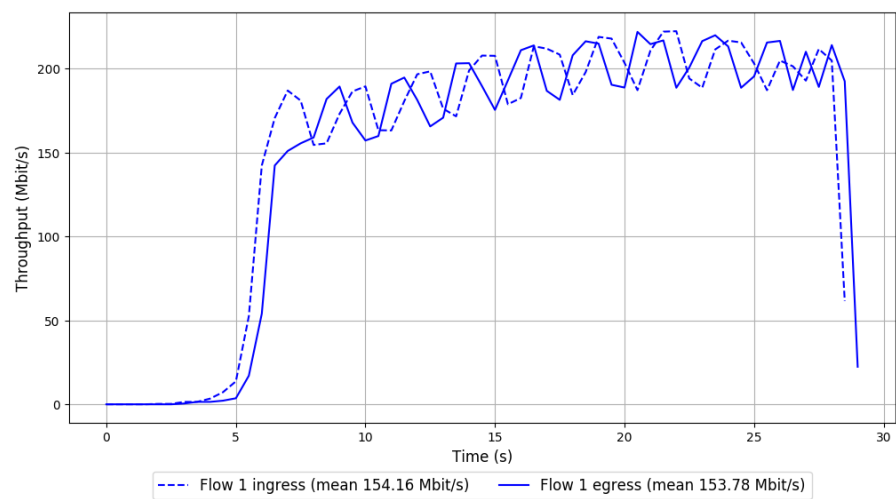
Run 1: Statistics of Indigo

Start at: 2018-05-30 18:53:10  
End at: 2018-05-30 18:53:40  
Local clock offset: -0.766 ms  
Remote clock offset: -0.642 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 153.78 Mbit/s  
95th percentile per-packet one-way delay: 112.848 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 153.78 Mbit/s  
95th percentile per-packet one-way delay: 112.848 ms  
Loss rate: 1.03%



Run 1: Report of Indigo — Data Link

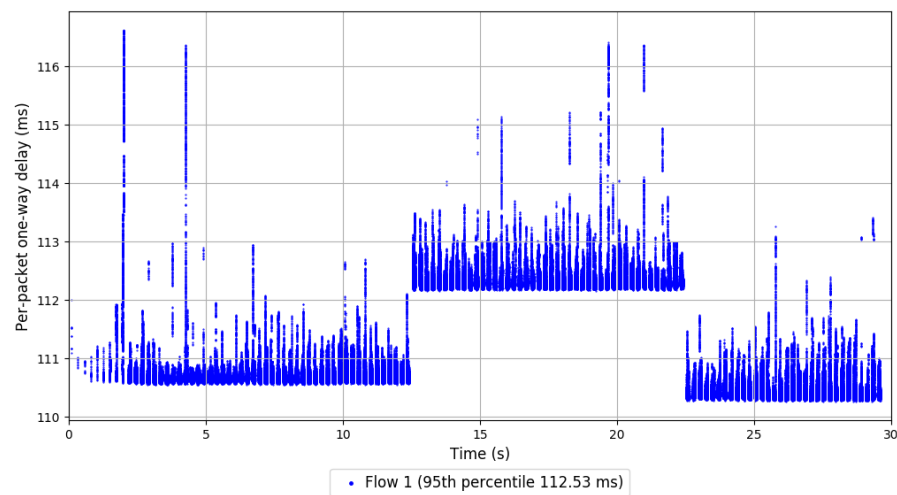
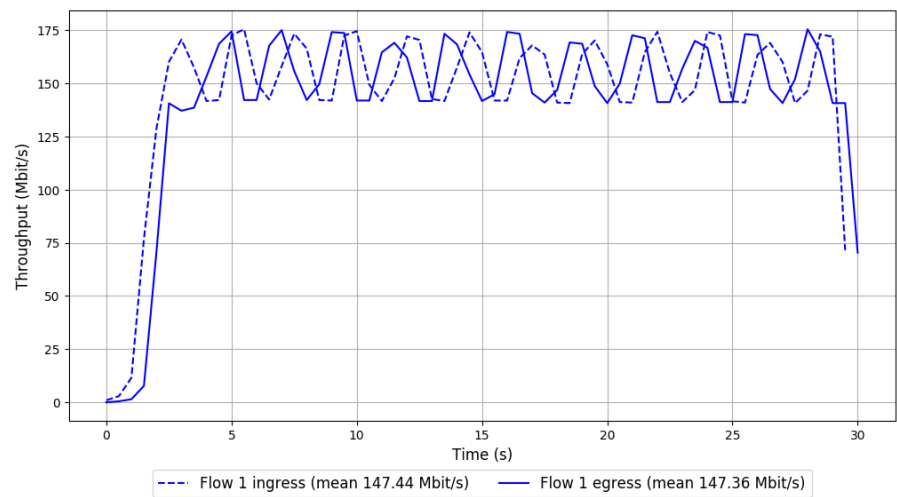


Run 2: Statistics of Indigo

Start at: 2018-05-30 19:14:01  
End at: 2018-05-30 19:14:31  
Local clock offset: -0.507 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 147.36 Mbit/s  
95th percentile per-packet one-way delay: 112.528 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 147.36 Mbit/s  
95th percentile per-packet one-way delay: 112.528 ms  
Loss rate: 0.81%

Run 2: Report of Indigo — Data Link

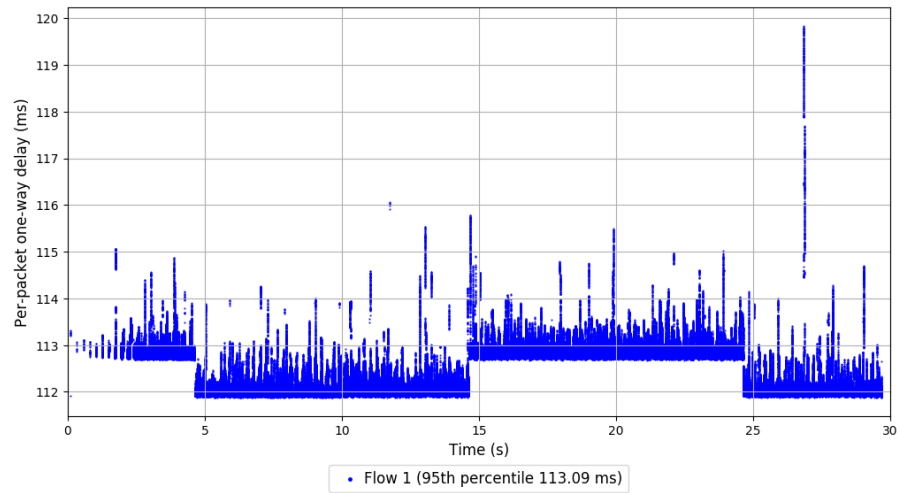
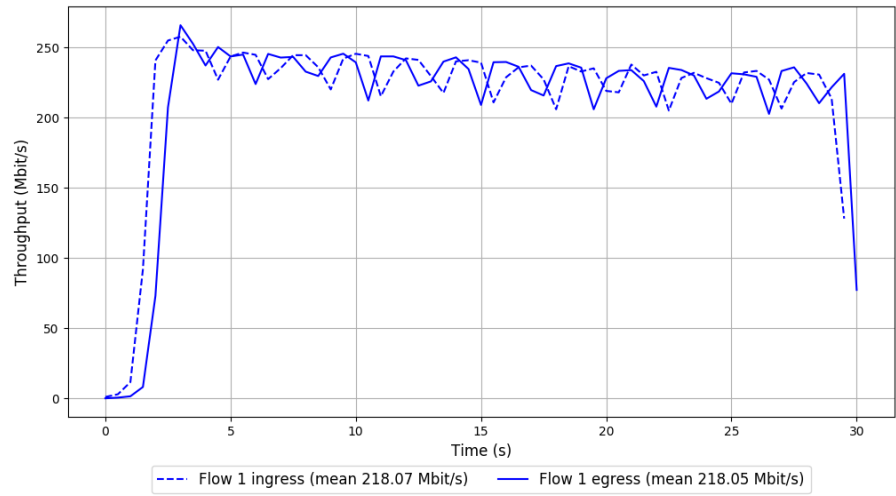


Run 3: Statistics of Indigo

Start at: 2018-05-30 19:34:49  
End at: 2018-05-30 19:35:19  
Local clock offset: -0.711 ms  
Remote clock offset: -1.039 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 218.05 Mbit/s  
95th percentile per-packet one-way delay: 113.088 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 218.05 Mbit/s  
95th percentile per-packet one-way delay: 113.088 ms  
Loss rate: 0.76%

### Run 3: Report of Indigo — Data Link

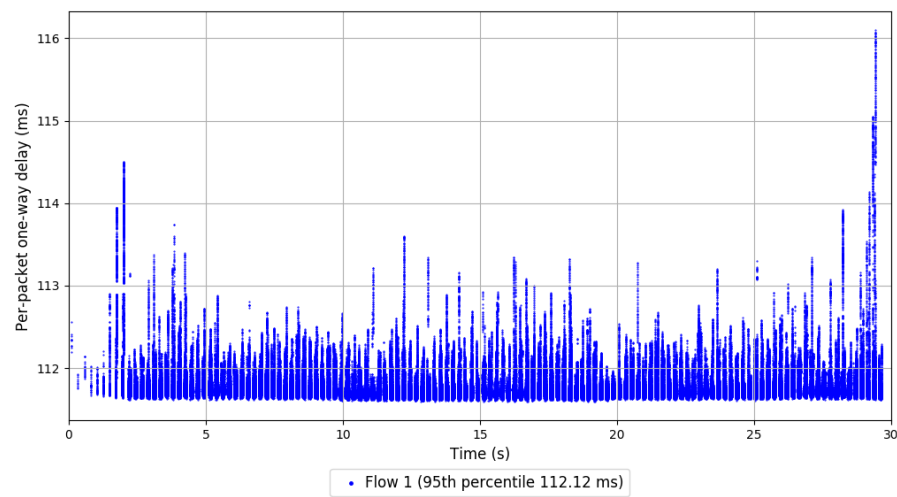
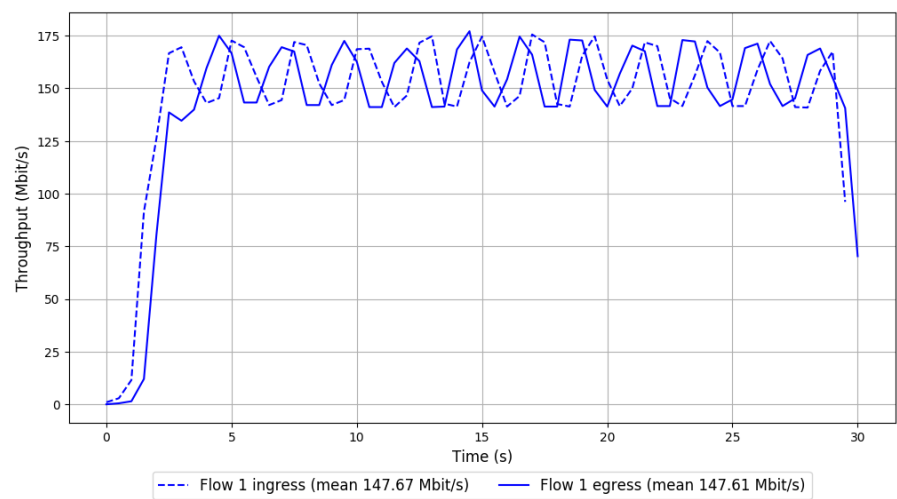


Run 4: Statistics of Indigo

Start at: 2018-05-30 19:55:54  
End at: 2018-05-30 19:56:24  
Local clock offset: -1.177 ms  
Remote clock offset: -1.321 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 147.61 Mbit/s  
95th percentile per-packet one-way delay: 112.121 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 147.61 Mbit/s  
95th percentile per-packet one-way delay: 112.121 ms  
Loss rate: 0.80%

Run 4: Report of Indigo — Data Link



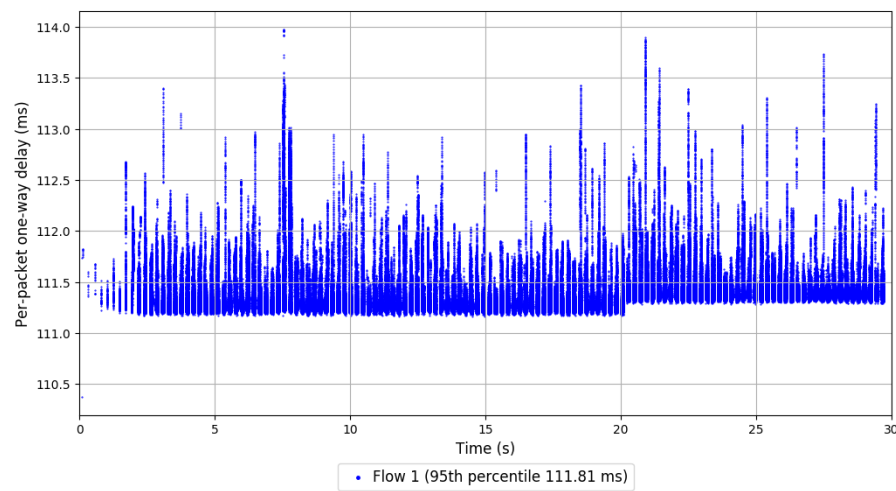
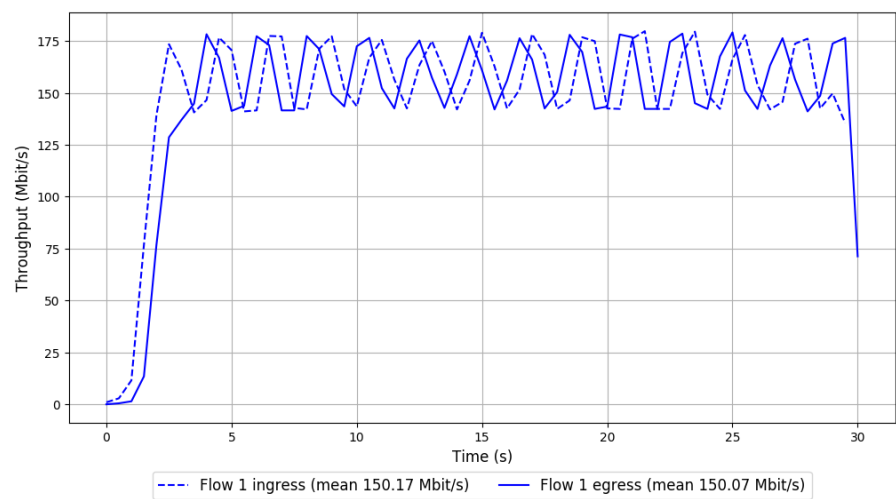
Run 5: Statistics of Indigo

Start at: 2018-05-30 20:16:43  
End at: 2018-05-30 20:17:13  
Local clock offset: -0.386 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 150.07 Mbit/s  
95th percentile per-packet one-way delay: 111.809 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 150.07 Mbit/s  
95th percentile per-packet one-way delay: 111.809 ms  
Loss rate: 0.80%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-30 20:37:53

End at: 2018-05-30 20:38:23

Local clock offset: 0.2 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 147.63 Mbit/s

95th percentile per-packet one-way delay: 112.173 ms

Loss rate: 0.80%

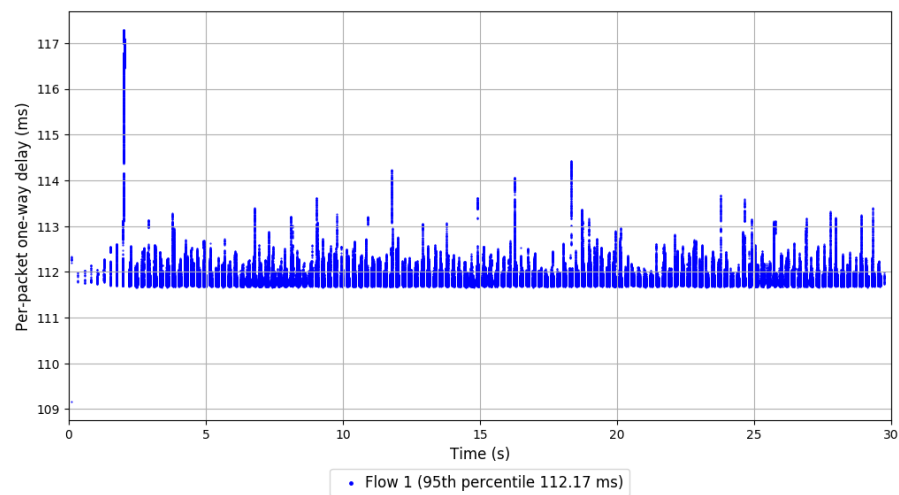
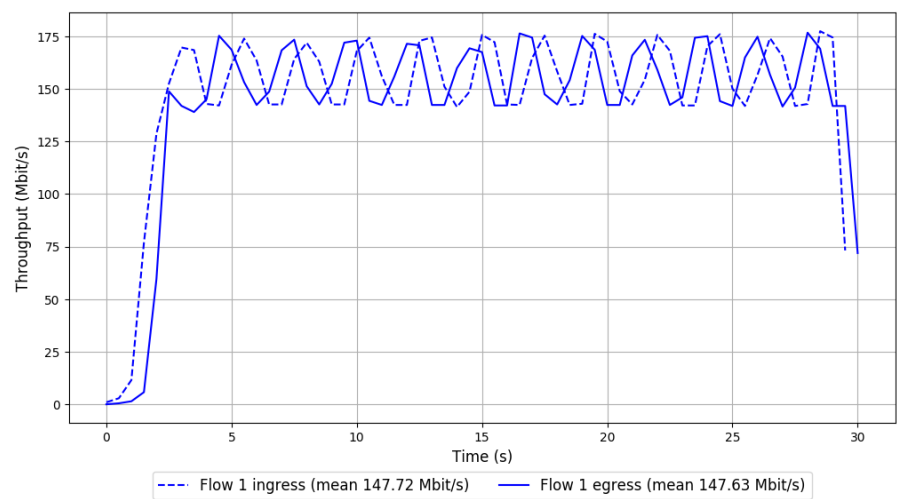
-- Flow 1:

Average throughput: 147.63 Mbit/s

95th percentile per-packet one-way delay: 112.173 ms

Loss rate: 0.80%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-30 20:58:49

End at: 2018-05-30 20:59:19

Local clock offset: -0.26 ms

Remote clock offset: 0.56 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 146.94 Mbit/s

95th percentile per-packet one-way delay: 112.331 ms

Loss rate: 0.80%

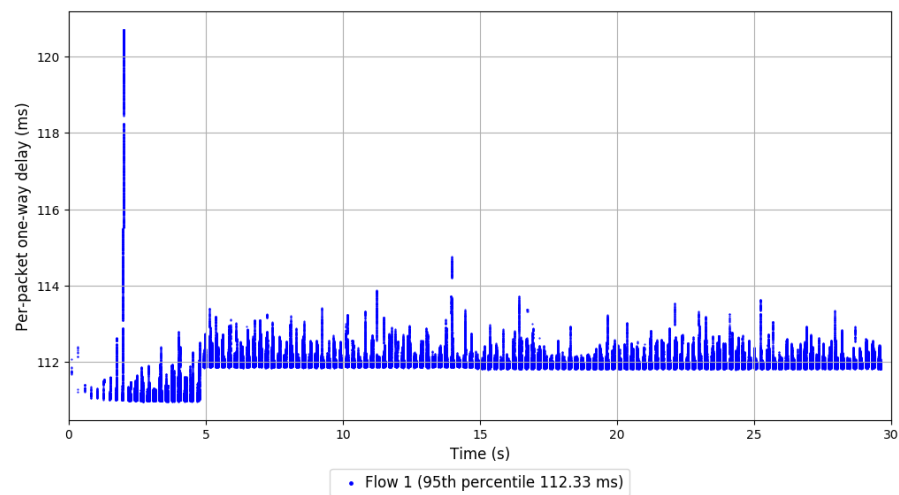
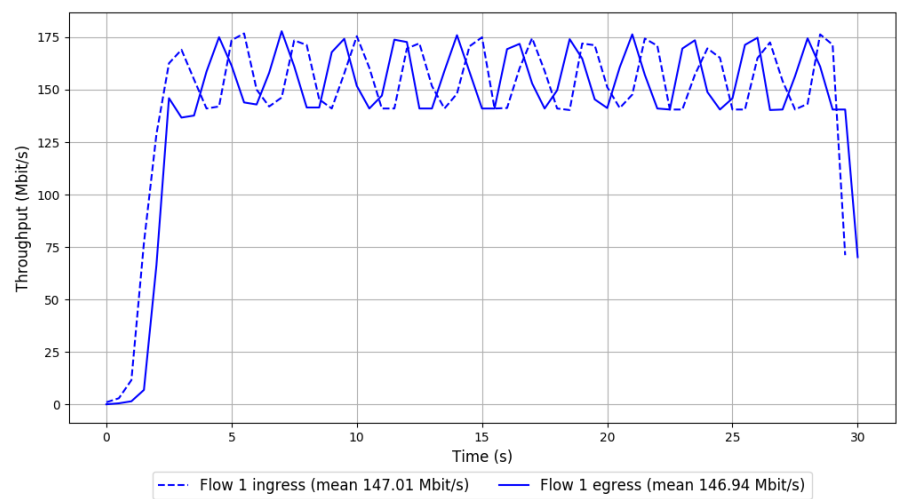
-- Flow 1:

Average throughput: 146.94 Mbit/s

95th percentile per-packet one-way delay: 112.331 ms

Loss rate: 0.80%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-30 21:19:39

End at: 2018-05-30 21:20:09

Local clock offset: -0.051 ms

Remote clock offset: 0.318 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 146.79 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.81%

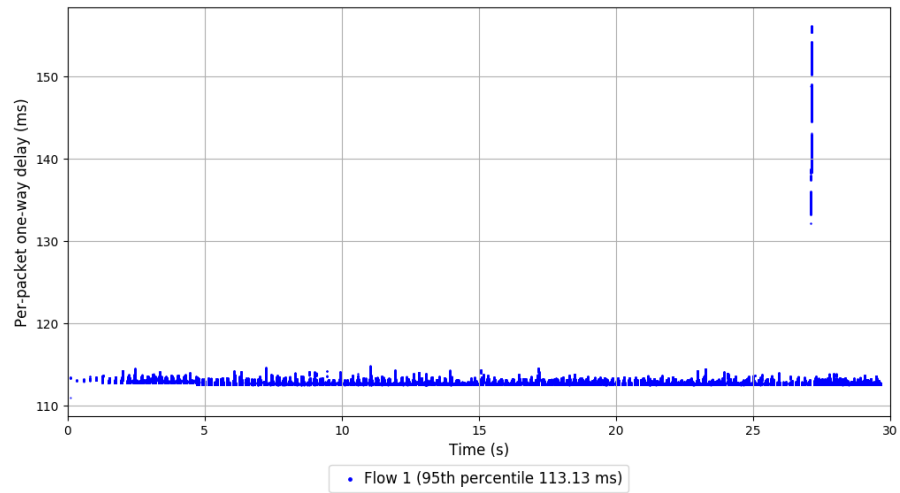
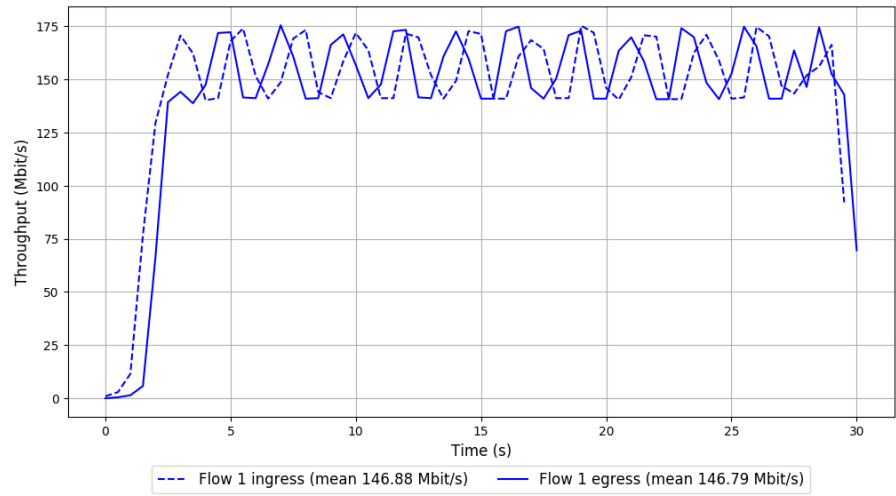
-- Flow 1:

Average throughput: 146.79 Mbit/s

95th percentile per-packet one-way delay: 113.133 ms

Loss rate: 0.81%

## Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-30 21:41:07

End at: 2018-05-30 21:41:37

Local clock offset: -0.09 ms

Remote clock offset: 0.408 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 167.11 Mbit/s

95th percentile per-packet one-way delay: 112.561 ms

Loss rate: 0.82%

-- Flow 1:

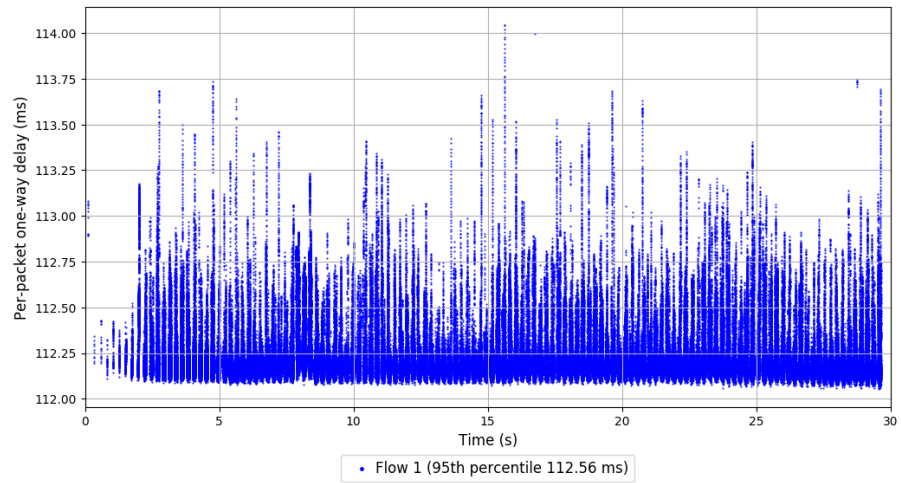
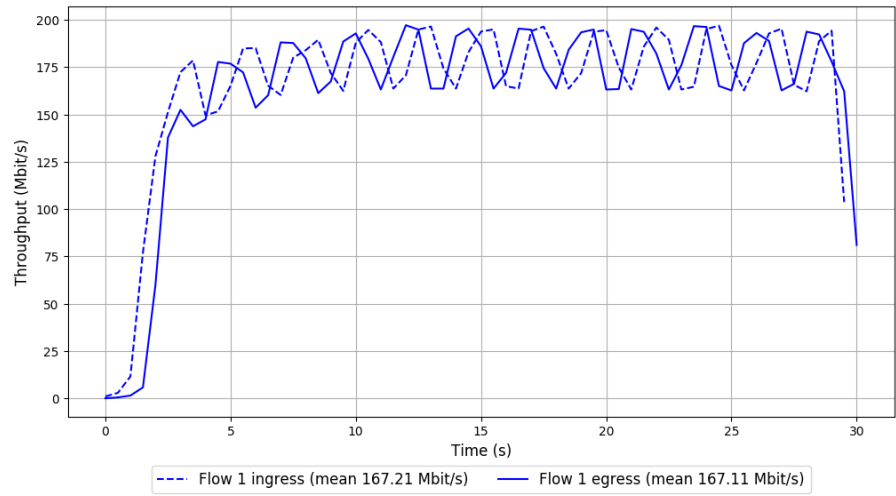
Average throughput: 167.11 Mbit/s

95th percentile per-packet one-way delay: 112.561 ms

Loss rate: 0.82%



### Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-30 22:02:29

End at: 2018-05-30 22:02:59

Local clock offset: 0.121 ms

Remote clock offset: -0.472 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 170.62 Mbit/s

95th percentile per-packet one-way delay: 113.213 ms

Loss rate: 0.83%

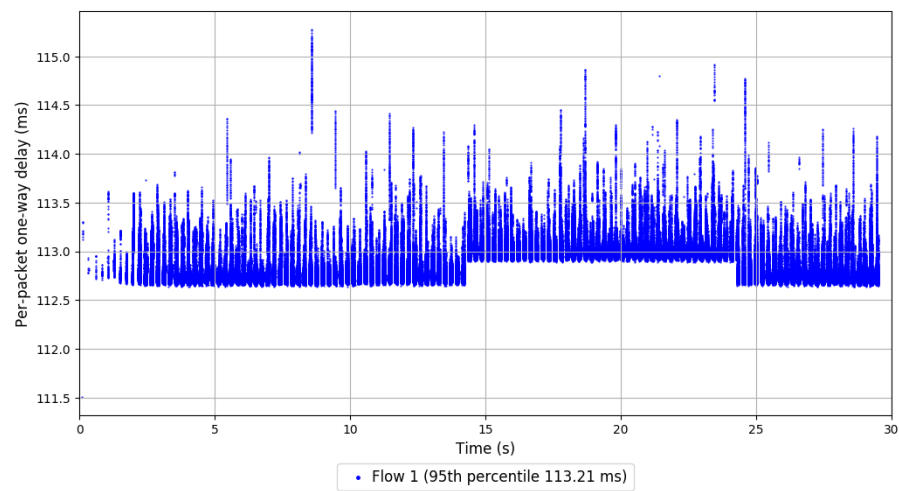
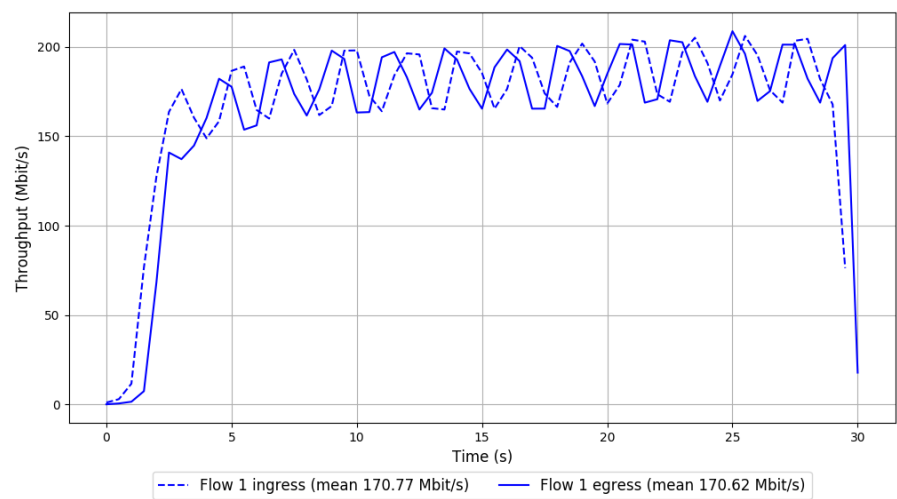
-- Flow 1:

Average throughput: 170.62 Mbit/s

95th percentile per-packet one-way delay: 113.213 ms

Loss rate: 0.83%

Run 10: Report of Indigo — Data Link

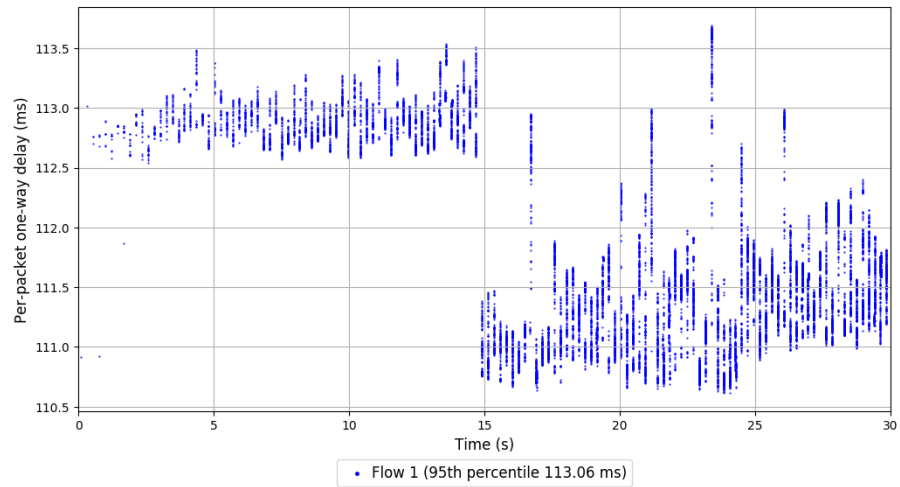
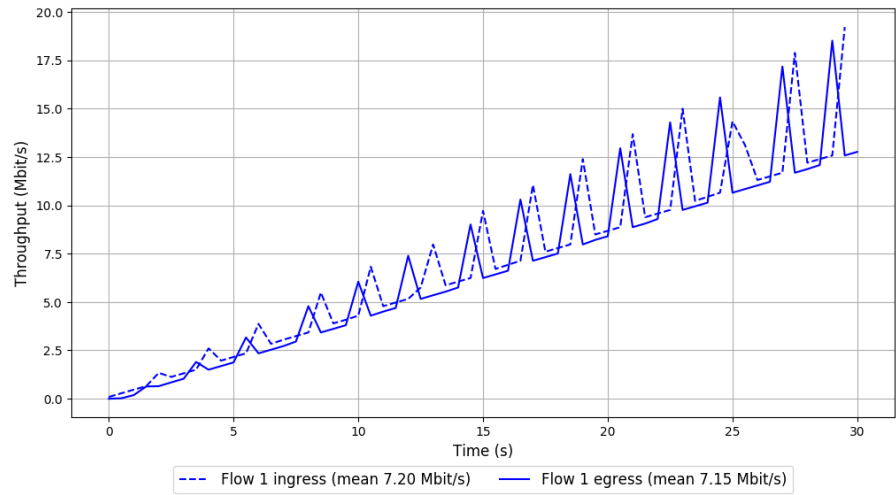


Run 1: Statistics of LEDBAT

Start at: 2018-05-30 19:01:09  
End at: 2018-05-30 19:01:39  
Local clock offset: -0.494 ms  
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.15 Mbit/s  
95th percentile per-packet one-way delay: 113.061 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 7.15 Mbit/s  
95th percentile per-packet one-way delay: 113.061 ms  
Loss rate: 1.49%

## Run 1: Report of LEDBAT — Data Link

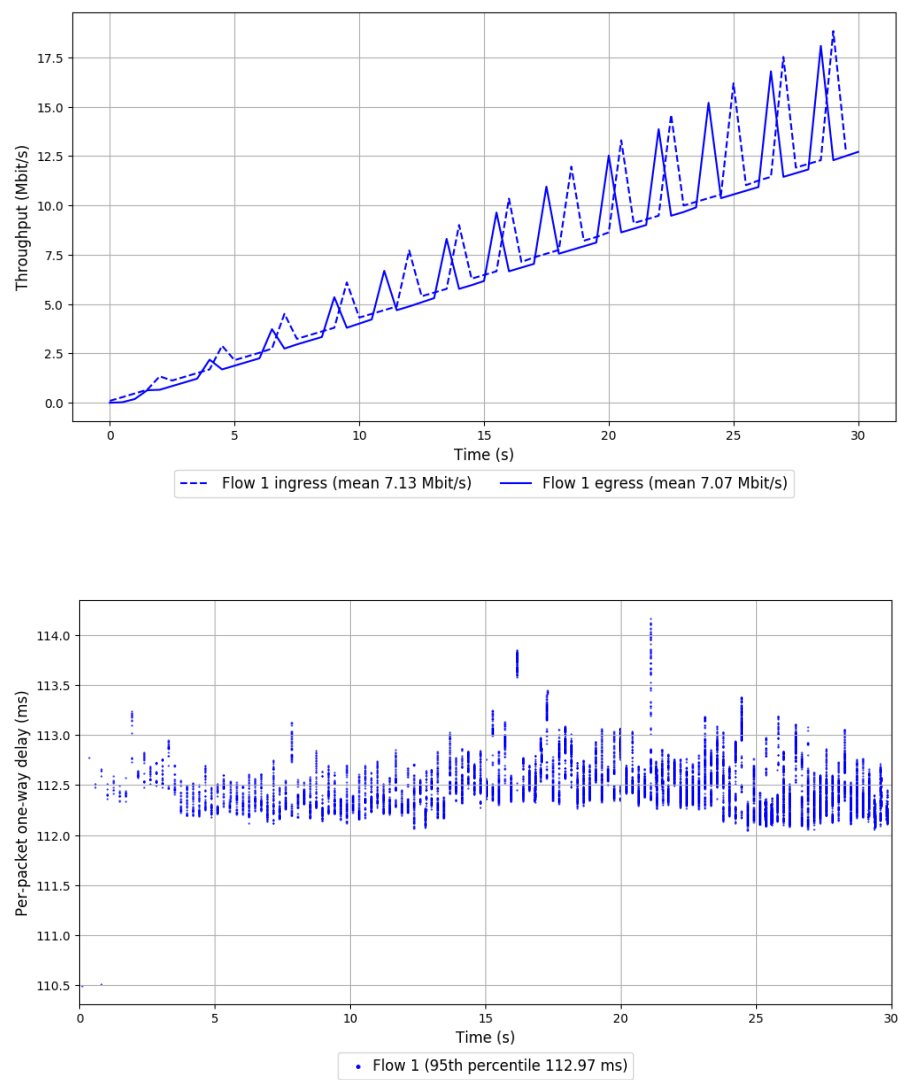


Run 2: Statistics of LEDBAT

Start at: 2018-05-30 19:22:00  
End at: 2018-05-30 19:22:30  
Local clock offset: -0.848 ms  
Remote clock offset: -0.505 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.07 Mbit/s  
95th percentile per-packet one-way delay: 112.972 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 7.07 Mbit/s  
95th percentile per-packet one-way delay: 112.972 ms  
Loss rate: 1.51%

Run 2: Report of LEDBAT — Data Link



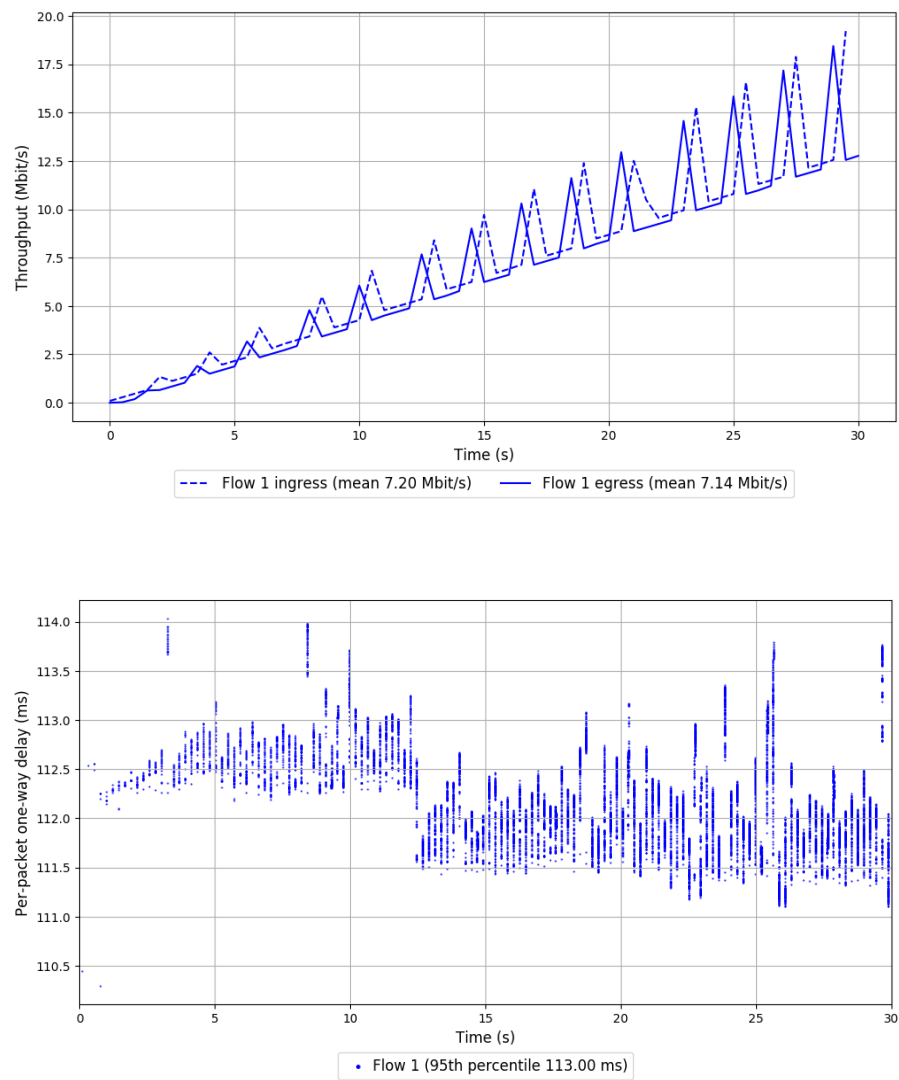
Run 3: Statistics of LEDBAT

Start at: 2018-05-30 19:42:51  
End at: 2018-05-30 19:43:21  
Local clock offset: -1.093 ms  
Remote clock offset: -0.754 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.14 Mbit/s  
95th percentile per-packet one-way delay: 112.995 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 7.14 Mbit/s  
95th percentile per-packet one-way delay: 112.995 ms  
Loss rate: 1.50%



Run 3: Report of LEDBAT — Data Link

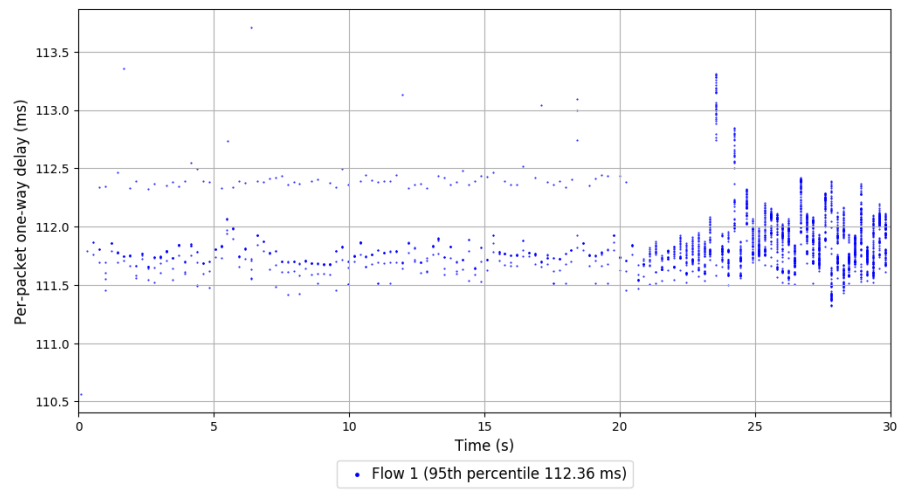
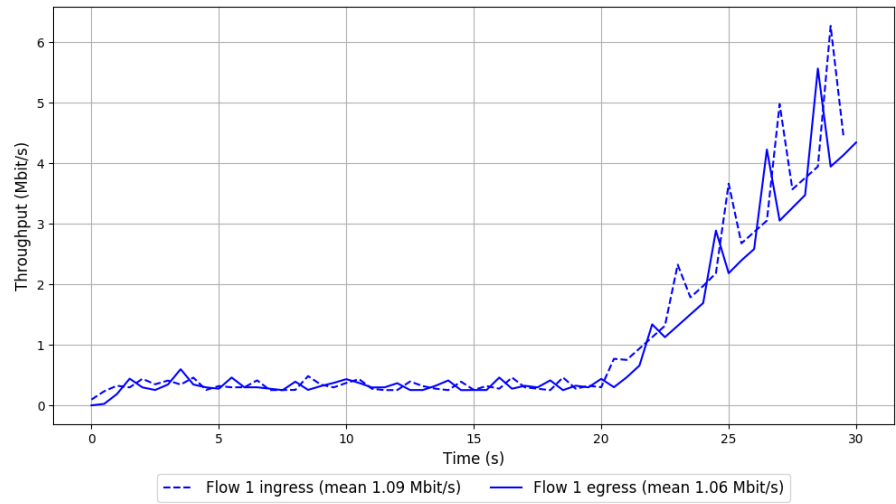


Run 4: Statistics of LEDBAT

Start at: 2018-05-30 20:03:43  
End at: 2018-05-30 20:04:13  
Local clock offset: -0.694 ms  
Remote clock offset: -0.482 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.06 Mbit/s  
95th percentile per-packet one-way delay: 112.362 ms  
Loss rate: 3.44%  
-- Flow 1:  
Average throughput: 1.06 Mbit/s  
95th percentile per-packet one-way delay: 112.362 ms  
Loss rate: 3.44%

#### Run 4: Report of LEDBAT — Data Link

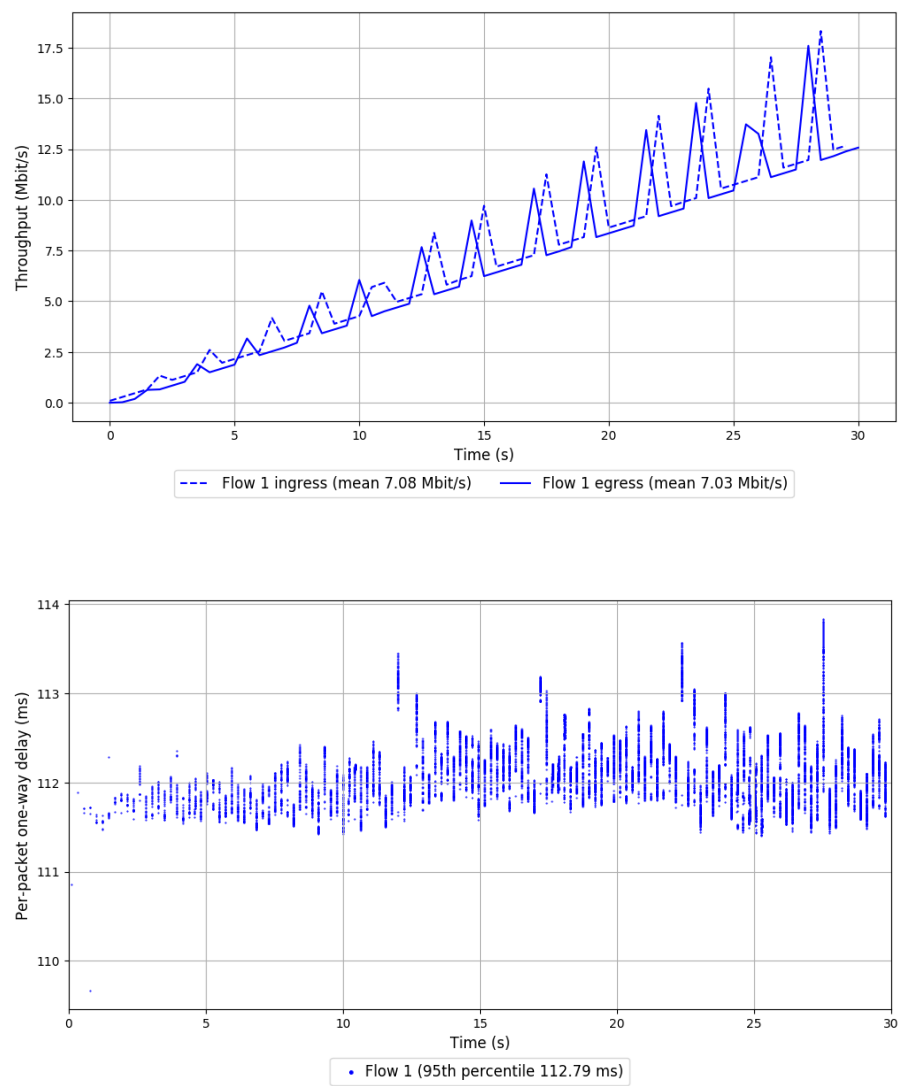


Run 5: Statistics of LEDBAT

Start at: 2018-05-30 20:24:42  
End at: 2018-05-30 20:25:12  
Local clock offset: -0.102 ms  
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.03 Mbit/s  
95th percentile per-packet one-way delay: 112.793 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 7.03 Mbit/s  
95th percentile per-packet one-way delay: 112.793 ms  
Loss rate: 1.50%

Run 5: Report of LEDBAT — Data Link

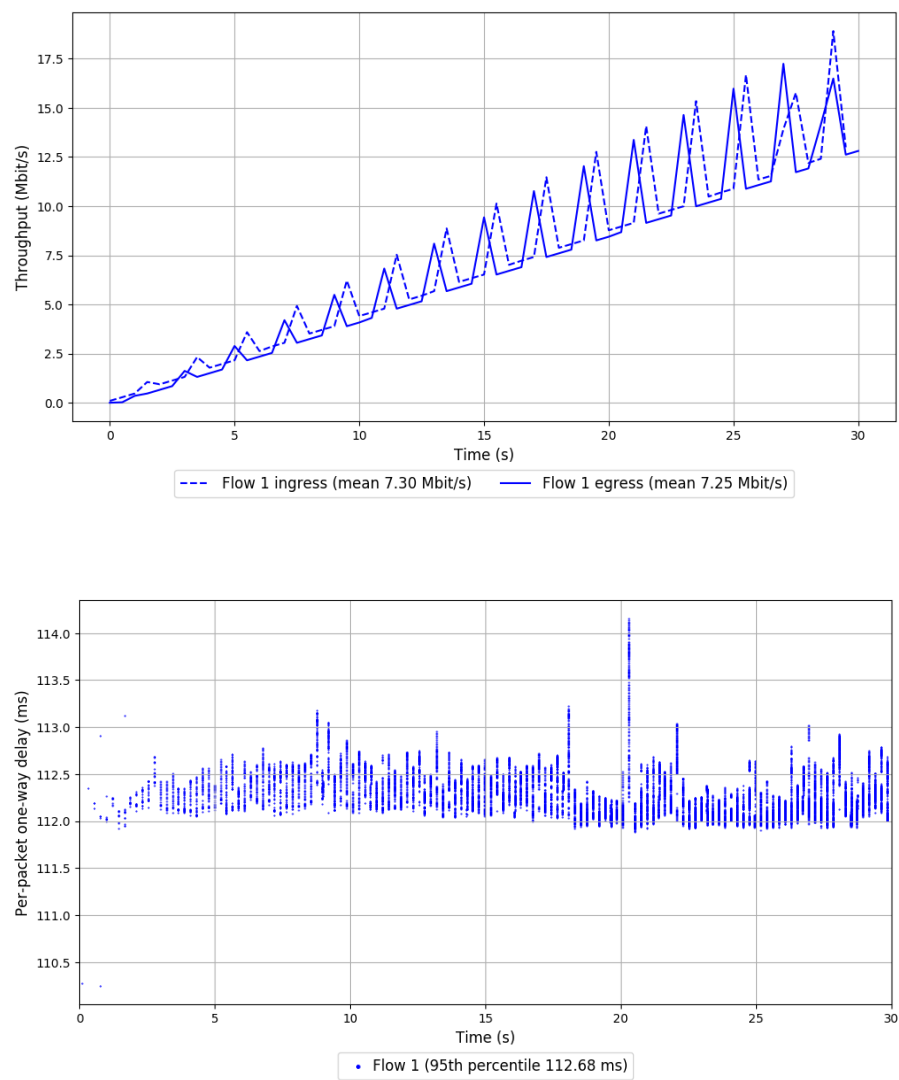


Run 6: Statistics of LEDBAT

Start at: 2018-05-30 20:45:47  
End at: 2018-05-30 20:46:17  
Local clock offset: -0.12 ms  
Remote clock offset: -0.268 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.25 Mbit/s  
95th percentile per-packet one-way delay: 112.681 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 7.25 Mbit/s  
95th percentile per-packet one-way delay: 112.681 ms  
Loss rate: 1.48%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-30 21:06:43

End at: 2018-05-30 21:07:13

Local clock offset: -0.239 ms

Remote clock offset: 0.275 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 1.50%

-- Flow 1:

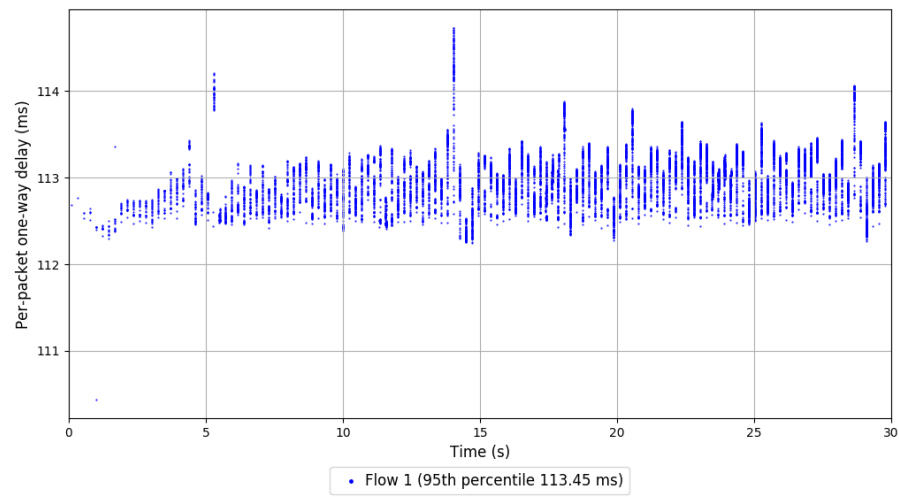
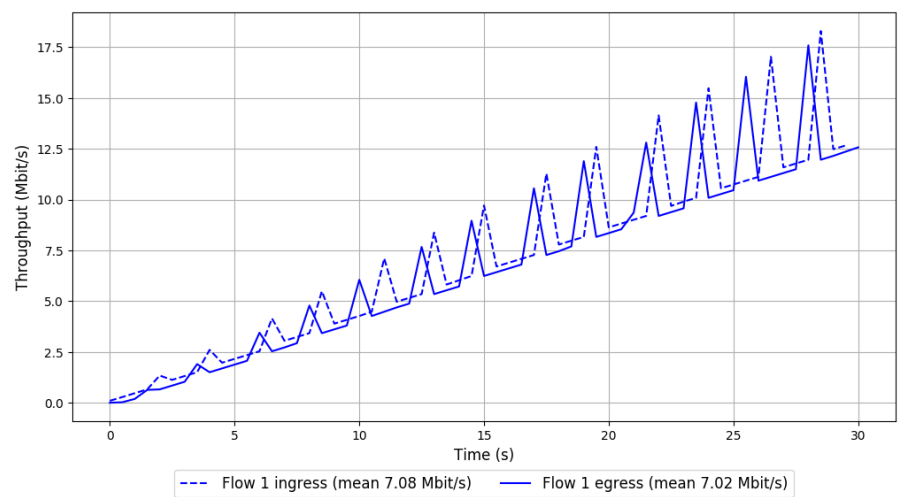
Average throughput: 7.02 Mbit/s

95th percentile per-packet one-way delay: 113.448 ms

Loss rate: 1.50%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-30 21:27:43

End at: 2018-05-30 21:28:13

Local clock offset: -0.143 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 114.226 ms

Loss rate: 1.50%

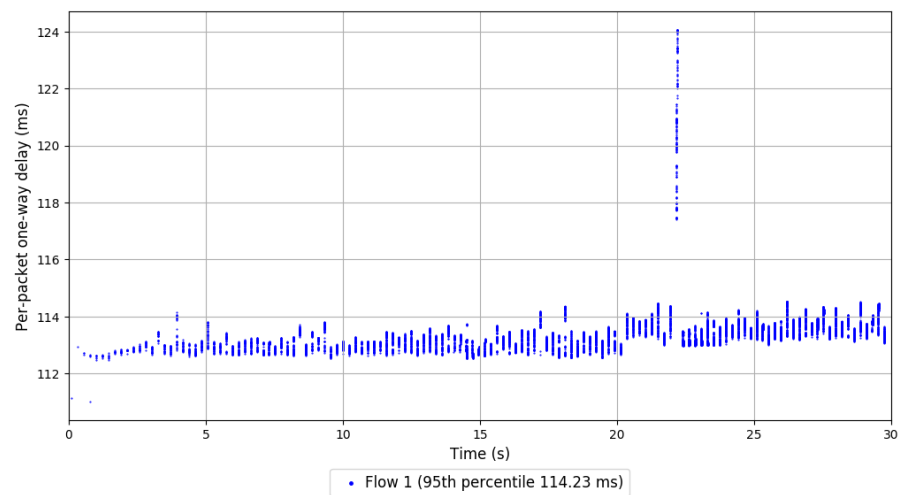
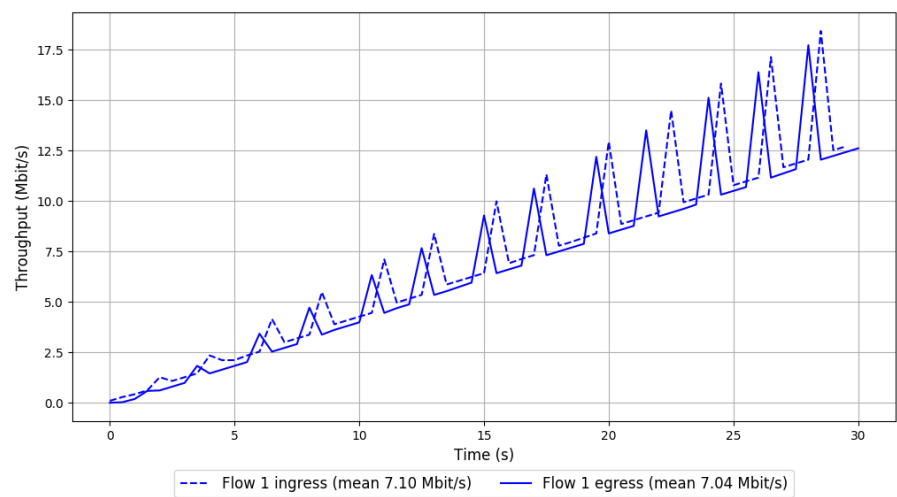
-- Flow 1:

Average throughput: 7.04 Mbit/s

95th percentile per-packet one-way delay: 114.226 ms

Loss rate: 1.50%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-30 21:49:23

End at: 2018-05-30 21:49:53

Local clock offset: -0.152 ms

Remote clock offset: 0.084 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 113.003 ms

Loss rate: 1.47%

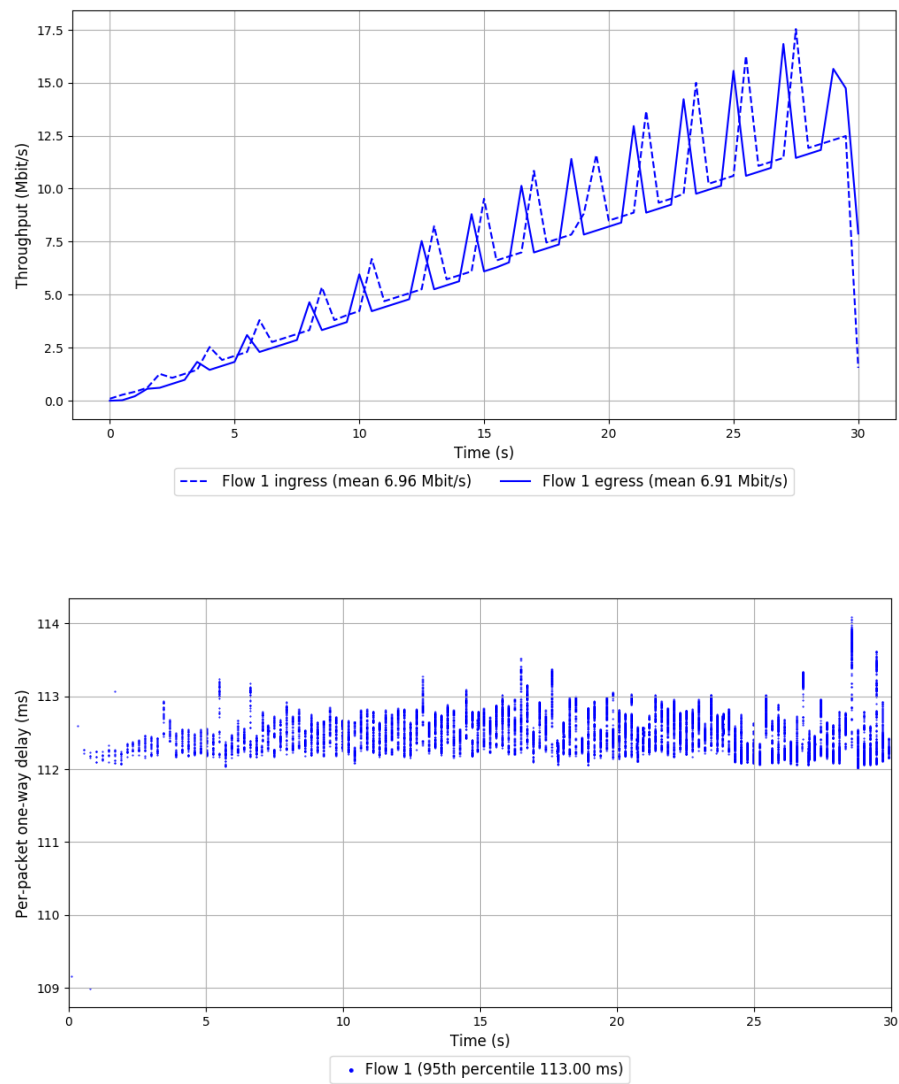
-- Flow 1:

Average throughput: 6.91 Mbit/s

95th percentile per-packet one-way delay: 113.003 ms

Loss rate: 1.47%

Run 9: Report of LEDBAT — Data Link

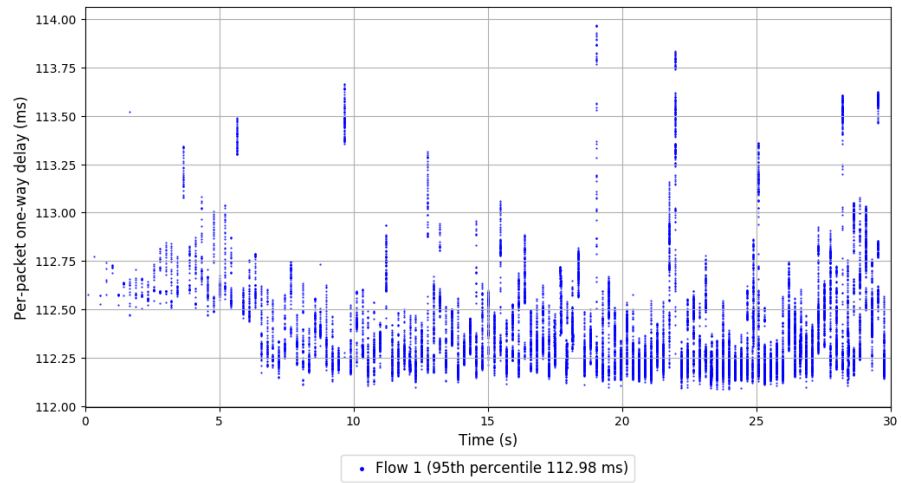
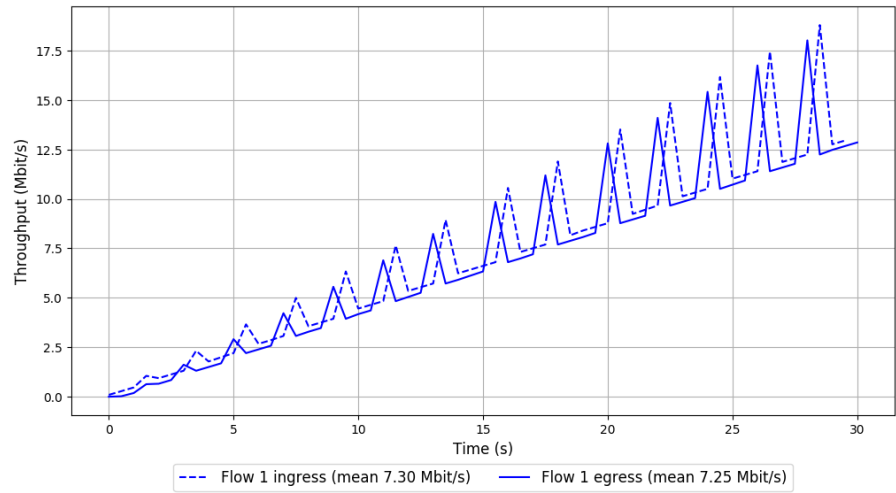


Run 10: Statistics of LEDBAT

Start at: 2018-05-30 22:10:17  
End at: 2018-05-30 22:10:47  
Local clock offset: -0.039 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.25 Mbit/s  
95th percentile per-packet one-way delay: 112.980 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 7.25 Mbit/s  
95th percentile per-packet one-way delay: 112.980 ms  
Loss rate: 1.49%

## Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-30 19:07:48

End at: 2018-05-30 19:08:18

Local clock offset: -0.6 ms

Remote clock offset: -0.398 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 545.29 Mbit/s

95th percentile per-packet one-way delay: 201.790 ms

Loss rate: 1.67%

-- Flow 1:

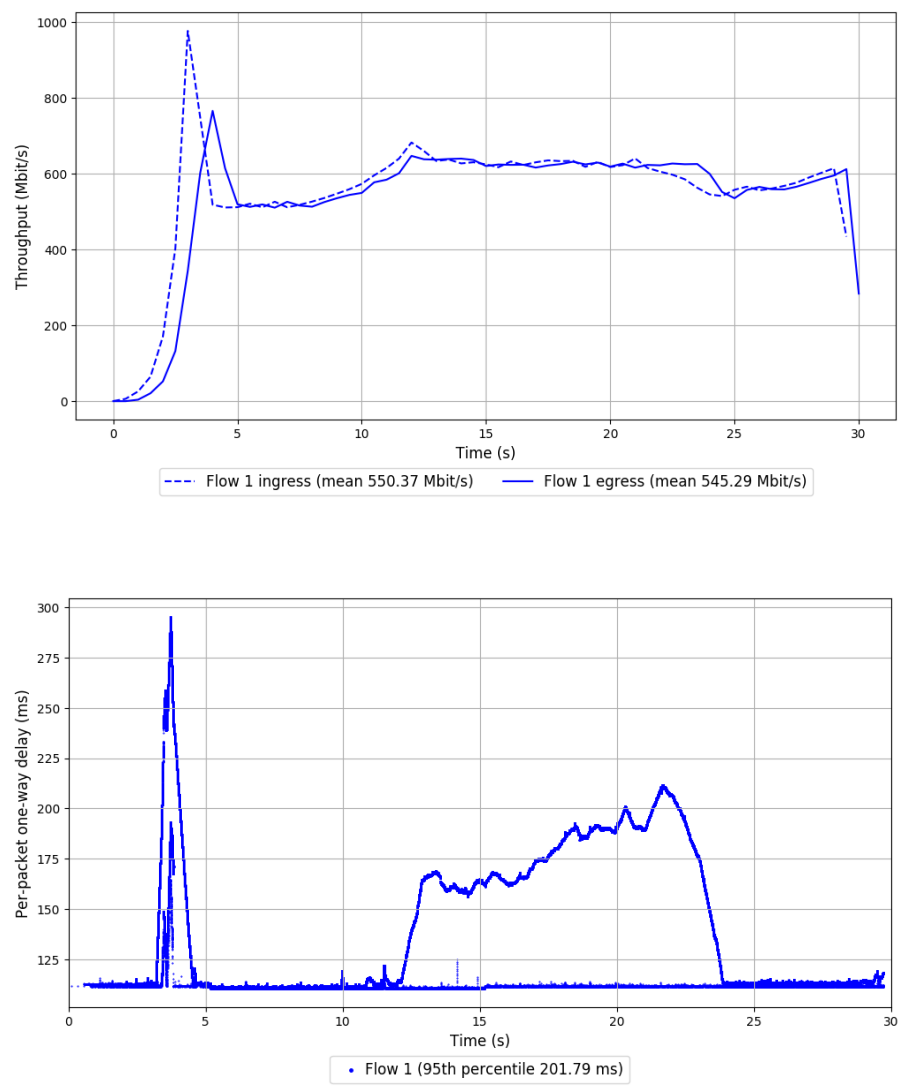
Average throughput: 545.29 Mbit/s

95th percentile per-packet one-way delay: 201.790 ms

Loss rate: 1.67%



Run 1: Report of PCC-Allegro — Data Link

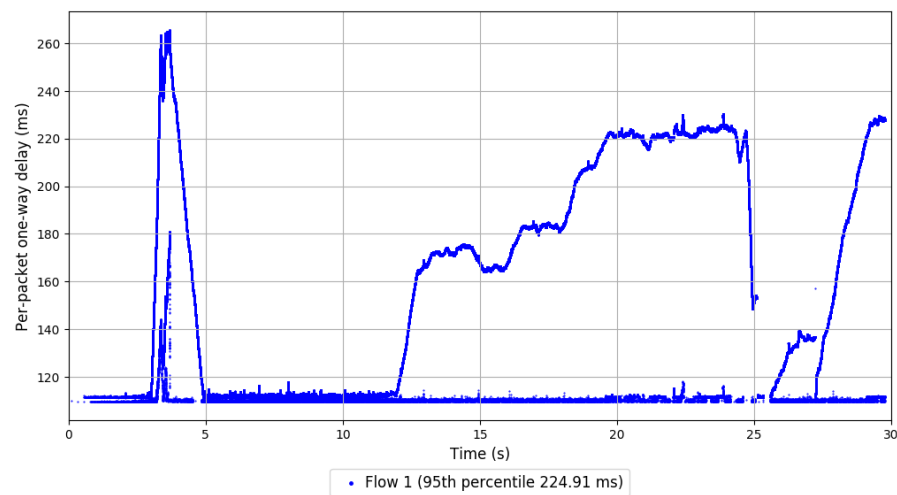
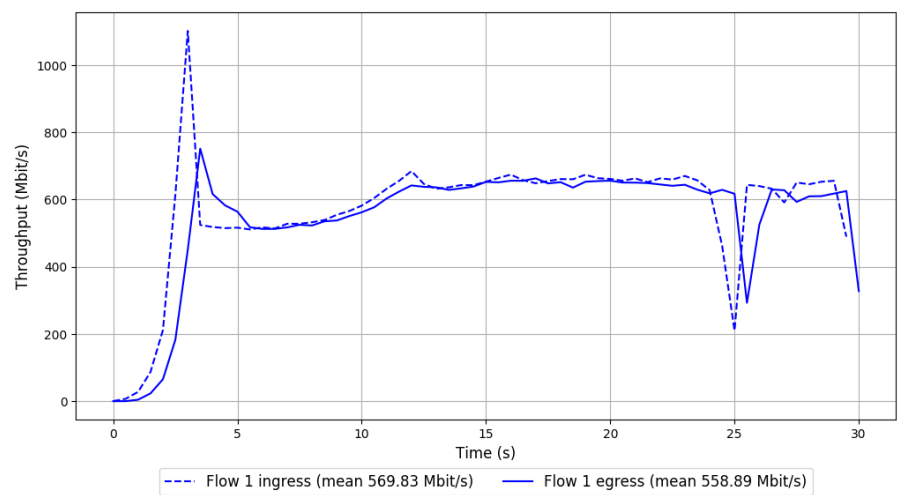


Run 2: Statistics of PCC-Allegro

Start at: 2018-05-30 19:28:40  
End at: 2018-05-30 19:29:10  
Local clock offset: -0.628 ms  
Remote clock offset: -0.615 ms

# Below is generated by plot.py at 2018-05-30 23:09:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 558.89 Mbit/s  
95th percentile per-packet one-way delay: 224.910 ms  
Loss rate: 2.65%  
-- Flow 1:  
Average throughput: 558.89 Mbit/s  
95th percentile per-packet one-way delay: 224.910 ms  
Loss rate: 2.65%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-30 19:49:42

End at: 2018-05-30 19:50:12

Local clock offset: -0.683 ms

Remote clock offset: -0.878 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 512.20 Mbit/s

95th percentile per-packet one-way delay: 128.170 ms

Loss rate: 1.57%

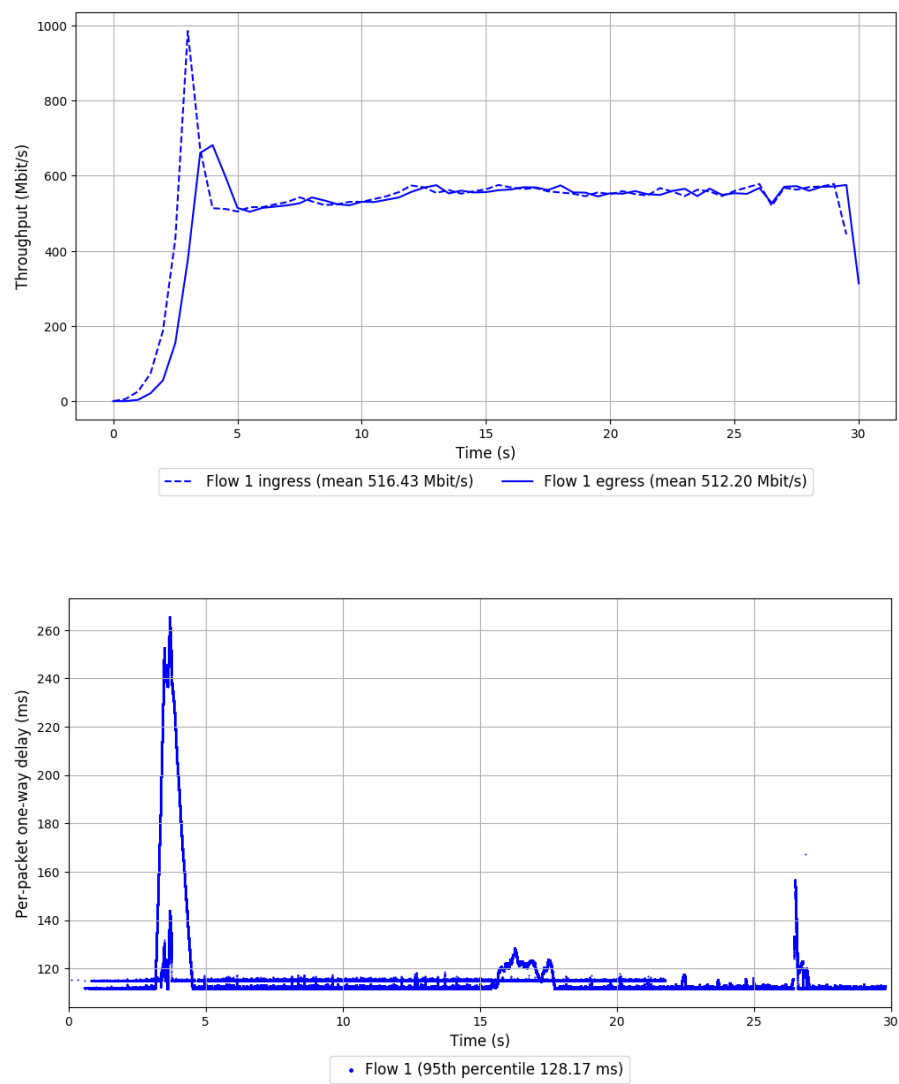
-- Flow 1:

Average throughput: 512.20 Mbit/s

95th percentile per-packet one-way delay: 128.170 ms

Loss rate: 1.57%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-30 20:10:34

End at: 2018-05-30 20:11:04

Local clock offset: -0.435 ms

Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 543.84 Mbit/s

95th percentile per-packet one-way delay: 225.790 ms

Loss rate: 1.89%

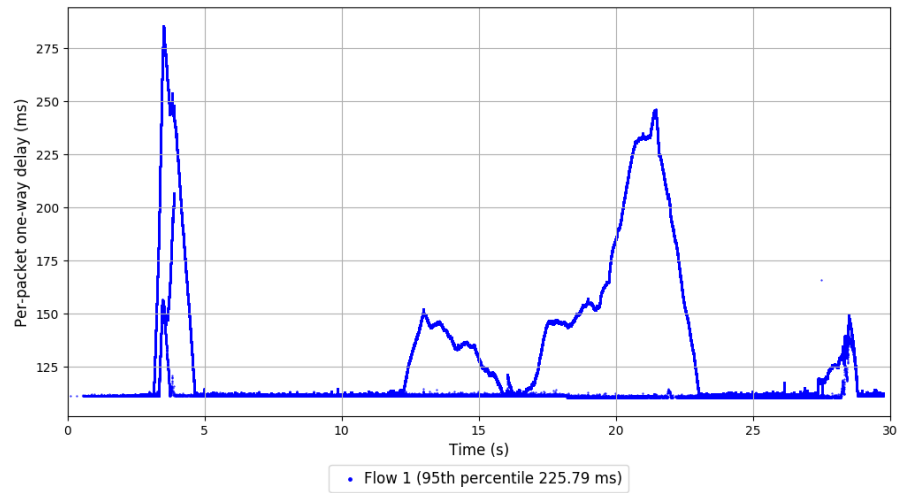
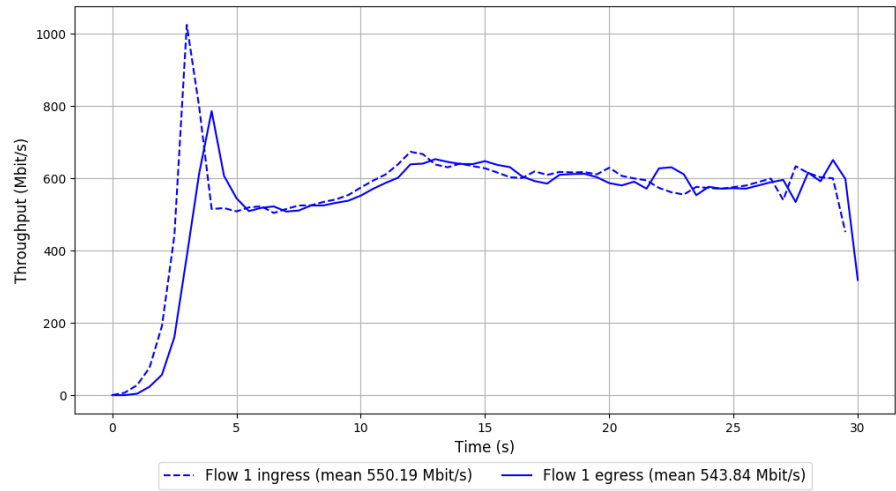
-- Flow 1:

Average throughput: 543.84 Mbit/s

95th percentile per-packet one-way delay: 225.790 ms

Loss rate: 1.89%

#### Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-30 20:31:39

End at: 2018-05-30 20:32:09

Local clock offset: -0.207 ms

Remote clock offset: 0.433 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 558.92 Mbit/s

95th percentile per-packet one-way delay: 221.683 ms

Loss rate: 2.42%

-- Flow 1:

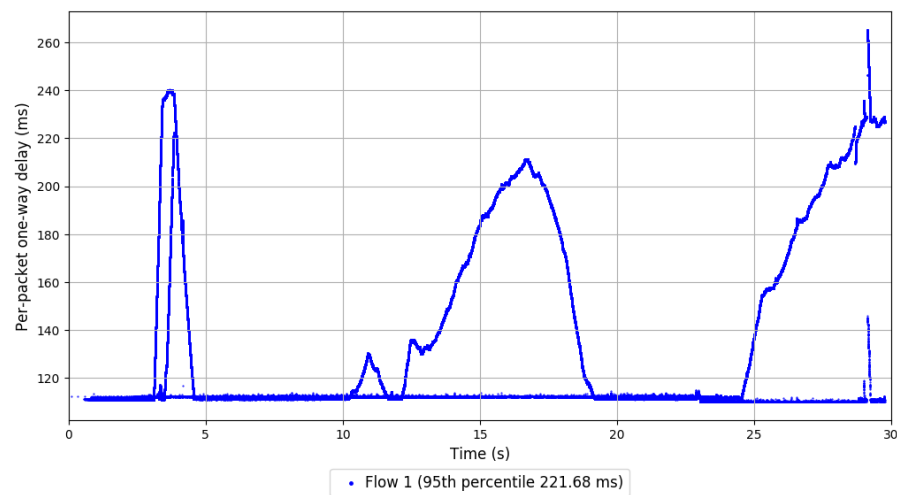
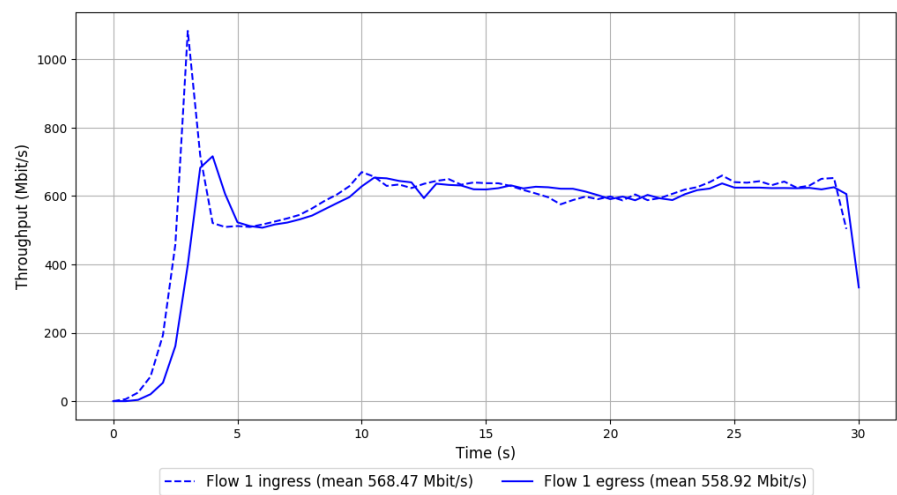
Average throughput: 558.92 Mbit/s

95th percentile per-packet one-way delay: 221.683 ms

Loss rate: 2.42%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-30 20:52:30

End at: 2018-05-30 20:53:01

Local clock offset: -0.257 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-05-30 23:09:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 546.77 Mbit/s

95th percentile per-packet one-way delay: 234.536 ms

Loss rate: 2.55%

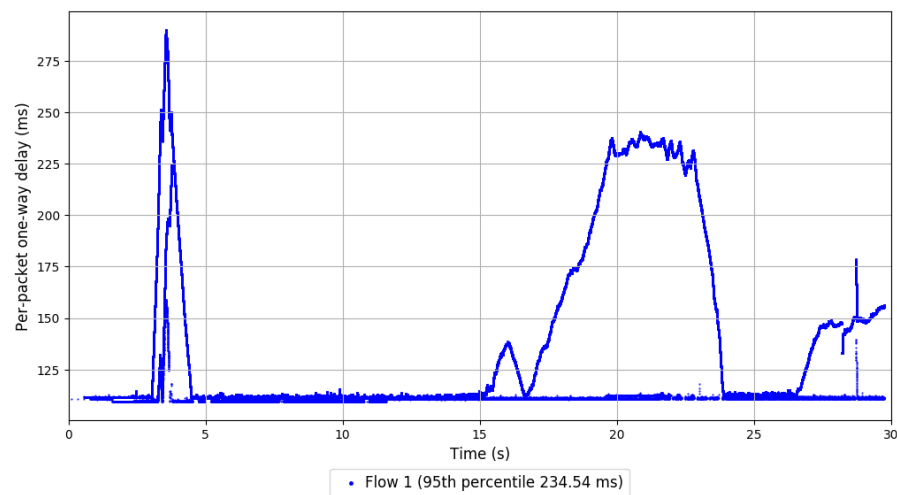
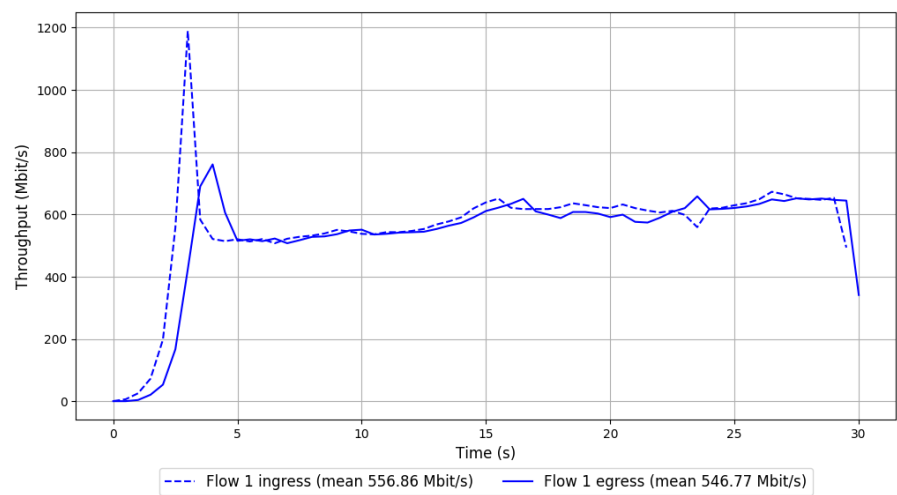
-- Flow 1:

Average throughput: 546.77 Mbit/s

95th percentile per-packet one-way delay: 234.536 ms

Loss rate: 2.55%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-30 21:13:18

End at: 2018-05-30 21:13:48

Local clock offset: -0.082 ms

Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-05-30 23:15:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 537.21 Mbit/s

95th percentile per-packet one-way delay: 138.115 ms

Loss rate: 1.80%

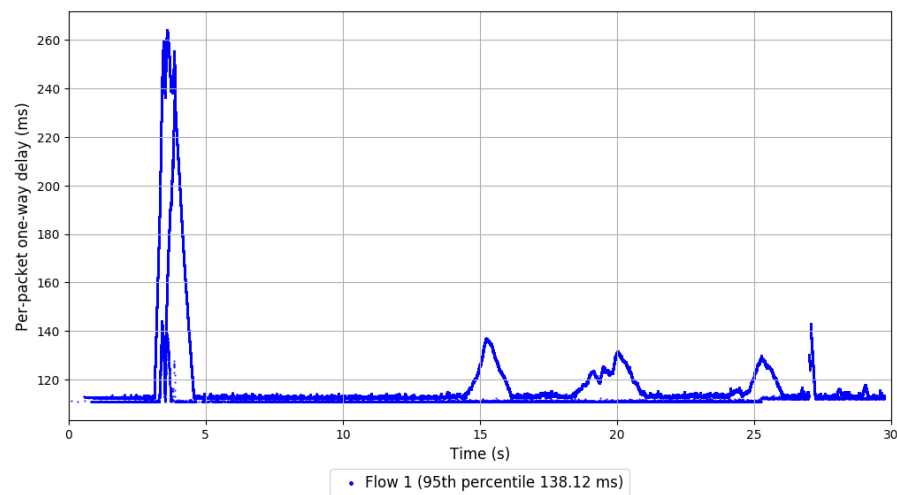
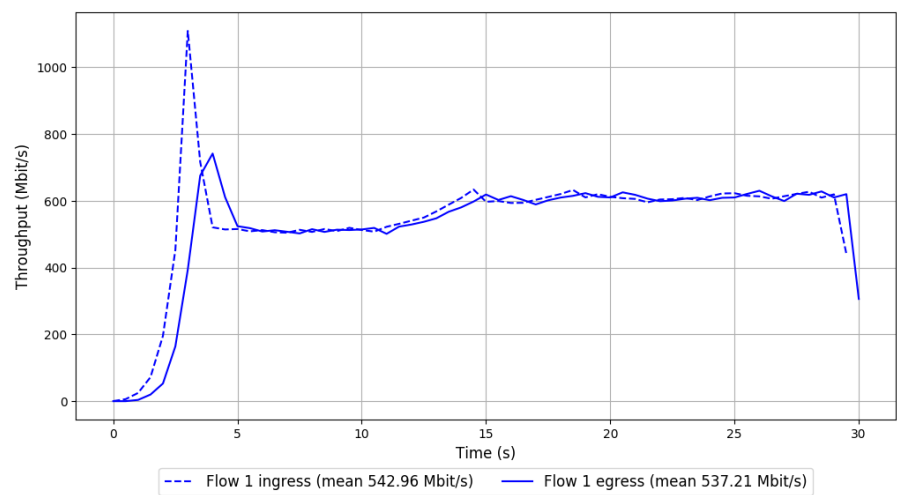
-- Flow 1:

Average throughput: 537.21 Mbit/s

95th percentile per-packet one-way delay: 138.115 ms

Loss rate: 1.80%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-30 21:34:48

End at: 2018-05-30 21:35:18

Local clock offset: -0.27 ms

Remote clock offset: 0.432 ms

# Below is generated by plot.py at 2018-05-30 23:15:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 554.55 Mbit/s

95th percentile per-packet one-way delay: 214.219 ms

Loss rate: 2.22%

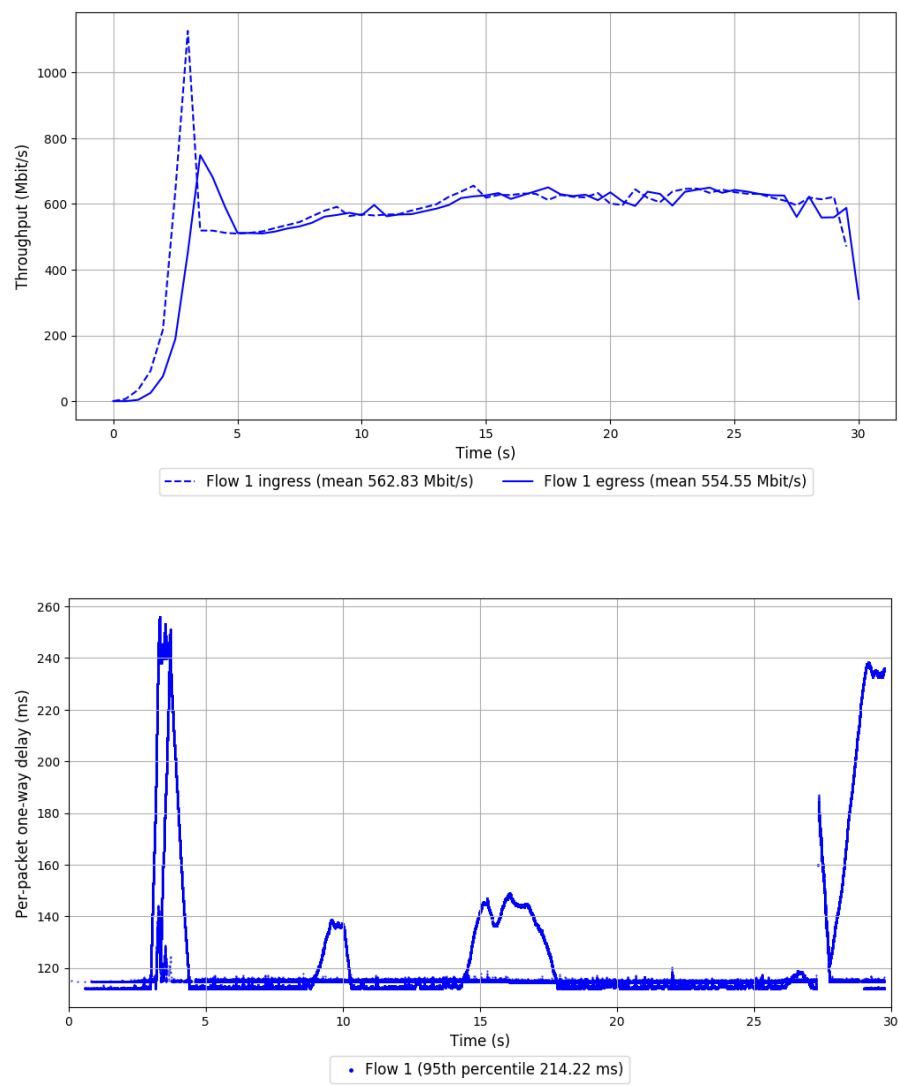
-- Flow 1:

Average throughput: 554.55 Mbit/s

95th percentile per-packet one-way delay: 214.219 ms

Loss rate: 2.22%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-30 21:56:11

End at: 2018-05-30 21:56:41

Local clock offset: -0.033 ms

Remote clock offset: 0.324 ms

# Below is generated by plot.py at 2018-05-30 23:15:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 535.39 Mbit/s

95th percentile per-packet one-way delay: 238.623 ms

Loss rate: 3.10%

-- Flow 1:

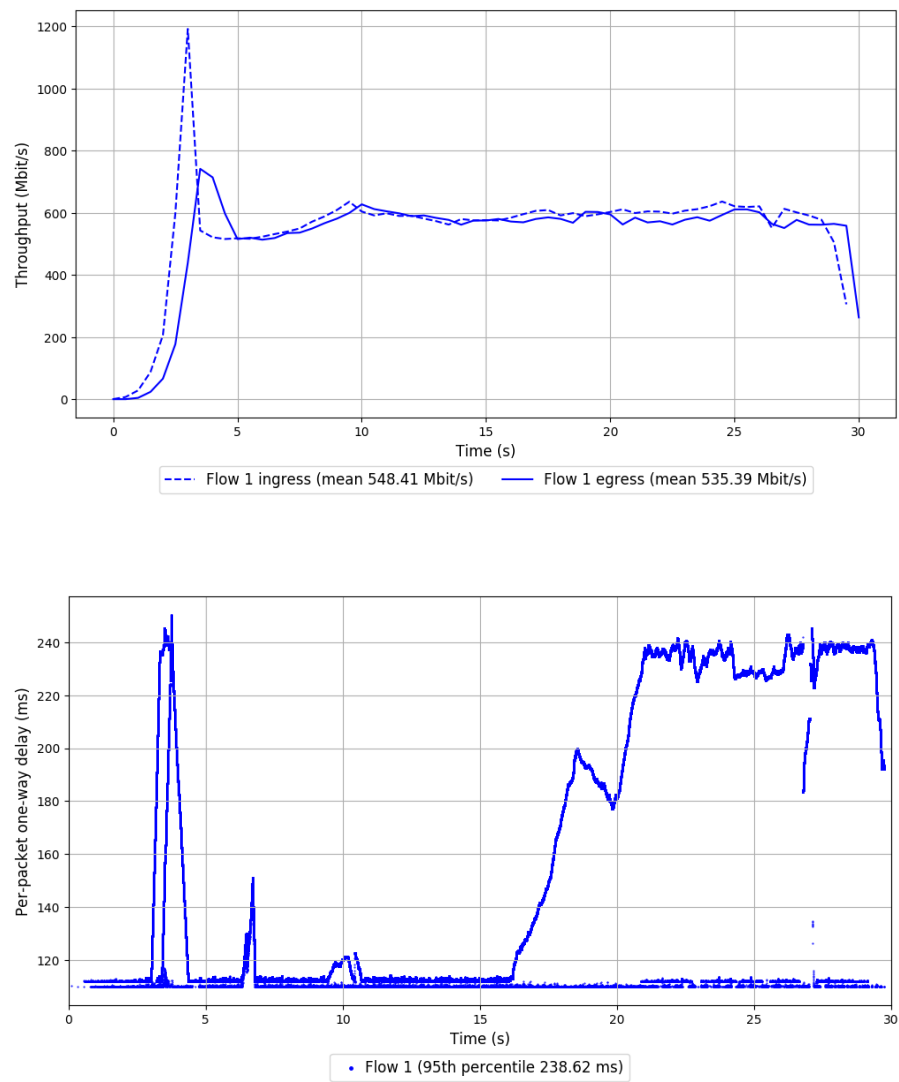
Average throughput: 535.39 Mbit/s

95th percentile per-packet one-way delay: 238.623 ms

Loss rate: 3.10%



Run 9: Report of PCC-Allegro — Data Link

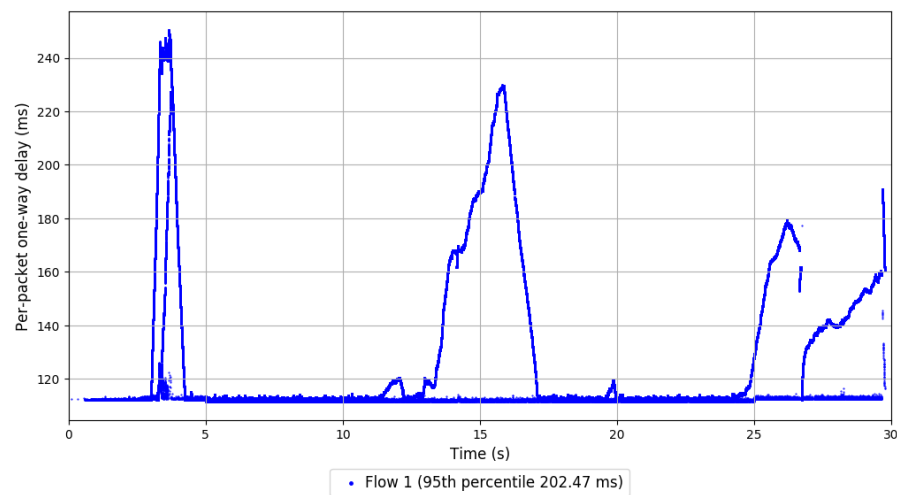
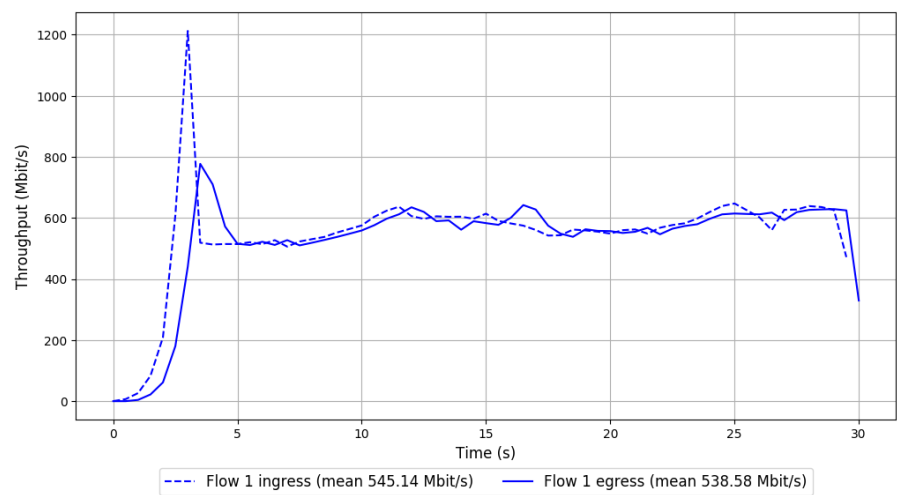


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-30 22:16:49  
End at: 2018-05-30 22:17:19  
Local clock offset: 0.003 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-05-30 23:15:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 538.58 Mbit/s  
95th percentile per-packet one-way delay: 202.473 ms  
Loss rate: 1.94%  
-- Flow 1:  
Average throughput: 538.58 Mbit/s  
95th percentile per-packet one-way delay: 202.473 ms  
Loss rate: 1.94%

Run 10: Report of PCC-Allegro — Data Link

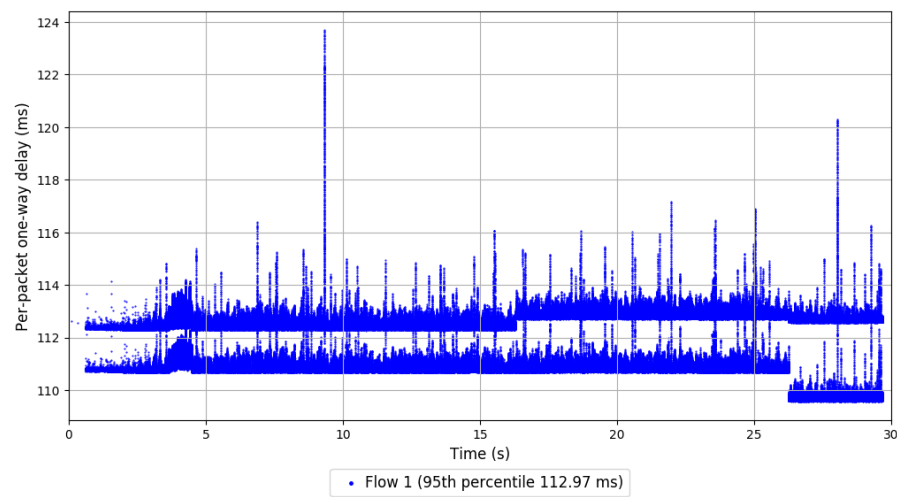
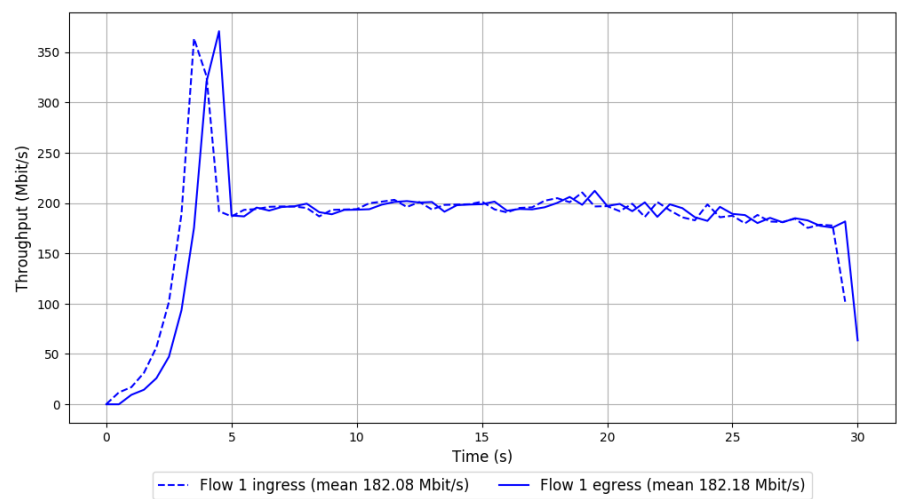


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-30 19:05:17
End at: 2018-05-30 19:05:47
Local clock offset: -0.009 ms
Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-30 23:15:25
# Datalink statistics
-- Total of 1 flow:
Average throughput: 182.18 Mbit/s
95th percentile per-packet one-way delay: 112.968 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 182.18 Mbit/s
95th percentile per-packet one-way delay: 112.968 ms
Loss rate: 0.71%
```

Run 1: Report of PCC-Expr — Data Link

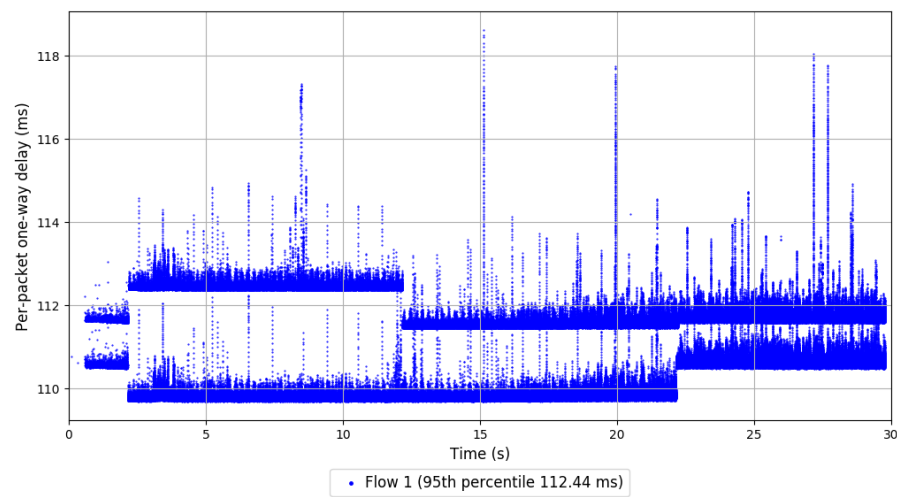
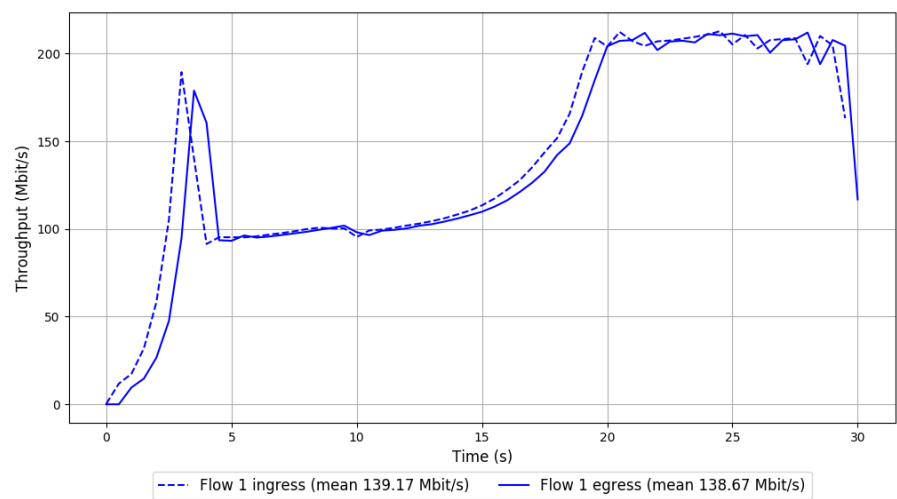


Run 2: Statistics of PCC-Expr

Start at: 2018-05-30 19:26:11  
End at: 2018-05-30 19:26:41  
Local clock offset: -0.41 ms  
Remote clock offset: -0.417 ms

# Below is generated by plot.py at 2018-05-30 23:15:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 138.67 Mbit/s  
95th percentile per-packet one-way delay: 112.442 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 138.67 Mbit/s  
95th percentile per-packet one-way delay: 112.442 ms  
Loss rate: 1.10%

Run 2: Report of PCC-Expr — Data Link



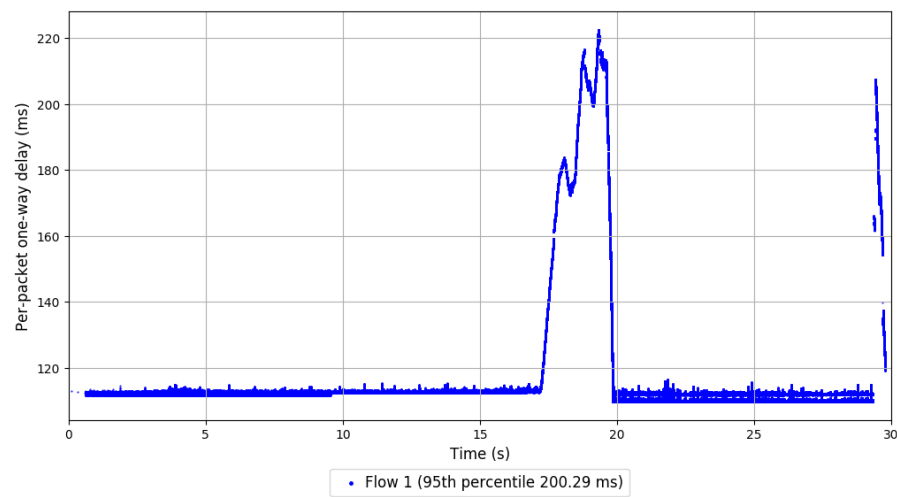
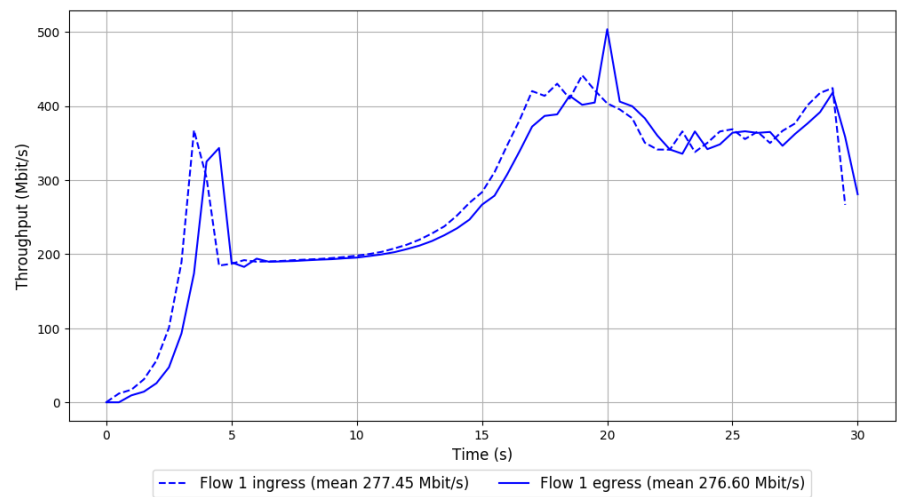
Run 3: Statistics of PCC-Expr

Start at: 2018-05-30 19:47:04  
End at: 2018-05-30 19:47:34  
Local clock offset: -0.707 ms  
Remote clock offset: -0.825 ms

# Below is generated by plot.py at 2018-05-30 23:16:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 276.60 Mbit/s  
95th percentile per-packet one-way delay: 200.288 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 276.60 Mbit/s  
95th percentile per-packet one-way delay: 200.288 ms  
Loss rate: 1.07%



Run 3: Report of PCC-Expr — Data Link

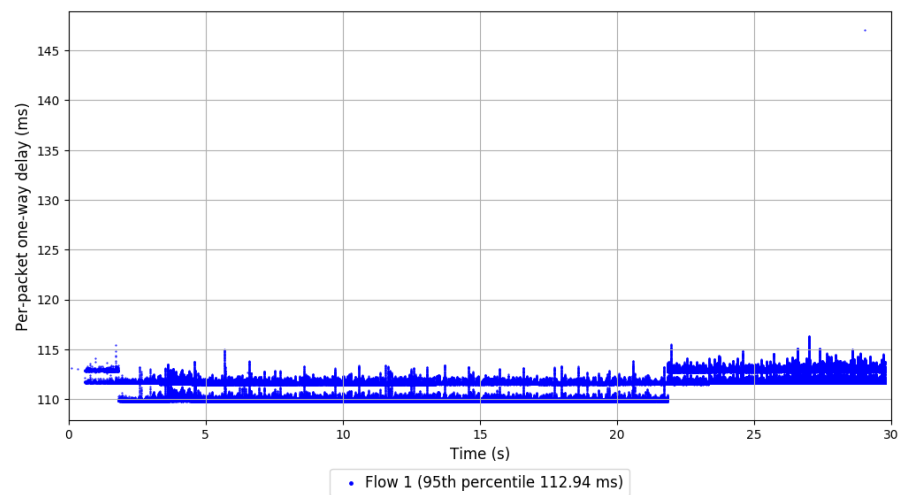
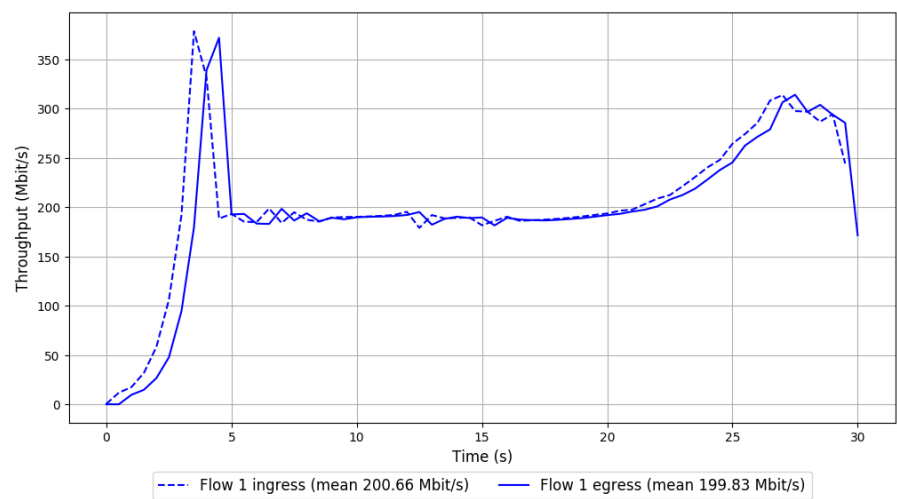


Run 4: Statistics of PCC-Expr

Start at: 2018-05-30 20:08:00  
End at: 2018-05-30 20:08:30  
Local clock offset: -0.265 ms  
Remote clock offset: -0.256 ms

# Below is generated by plot.py at 2018-05-30 23:16:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 199.83 Mbit/s  
95th percentile per-packet one-way delay: 112.937 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 199.83 Mbit/s  
95th percentile per-packet one-way delay: 112.937 ms  
Loss rate: 1.16%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-30 20:28:58

End at: 2018-05-30 20:29:28

Local clock offset: -0.121 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2018-05-30 23:21:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 291.29 Mbit/s

95th percentile per-packet one-way delay: 332.345 ms

Loss rate: 5.28%

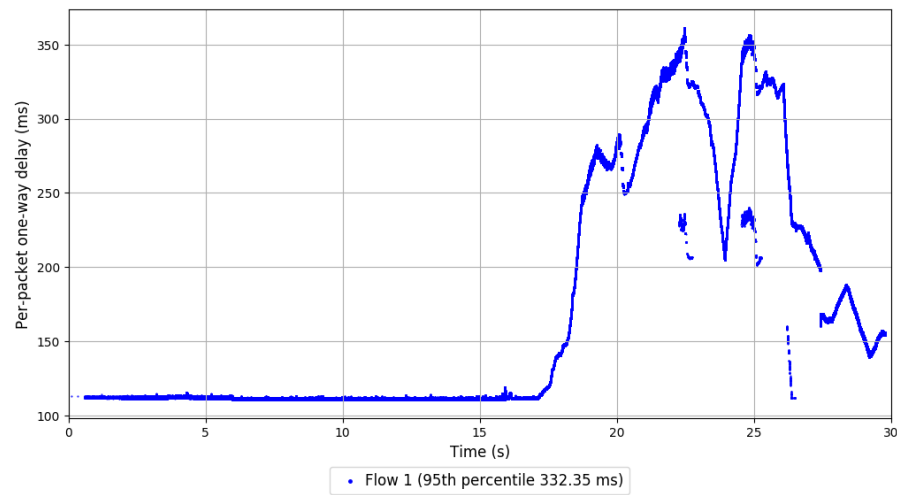
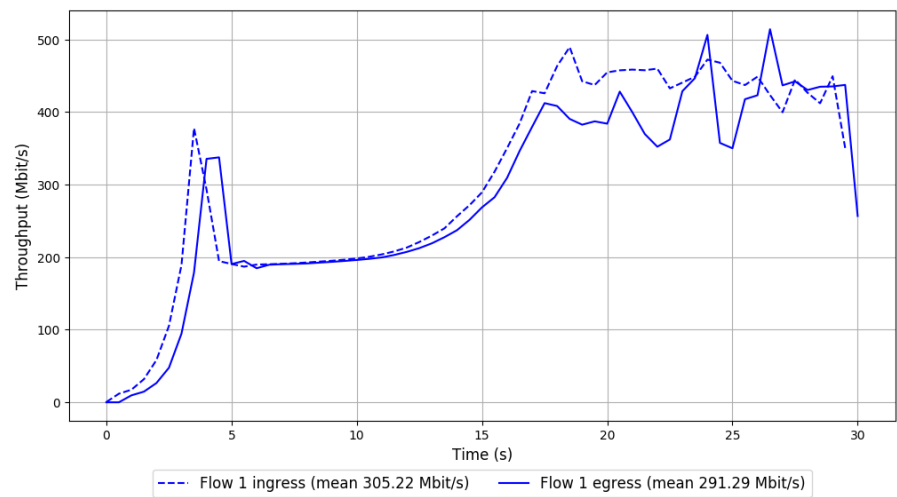
-- Flow 1:

Average throughput: 291.29 Mbit/s

95th percentile per-packet one-way delay: 332.345 ms

Loss rate: 5.28%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-30 20:49:47

End at: 2018-05-30 20:50:17

Local clock offset: -0.123 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2018-05-30 23:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 301.06 Mbit/s

95th percentile per-packet one-way delay: 171.499 ms

Loss rate: 1.57%

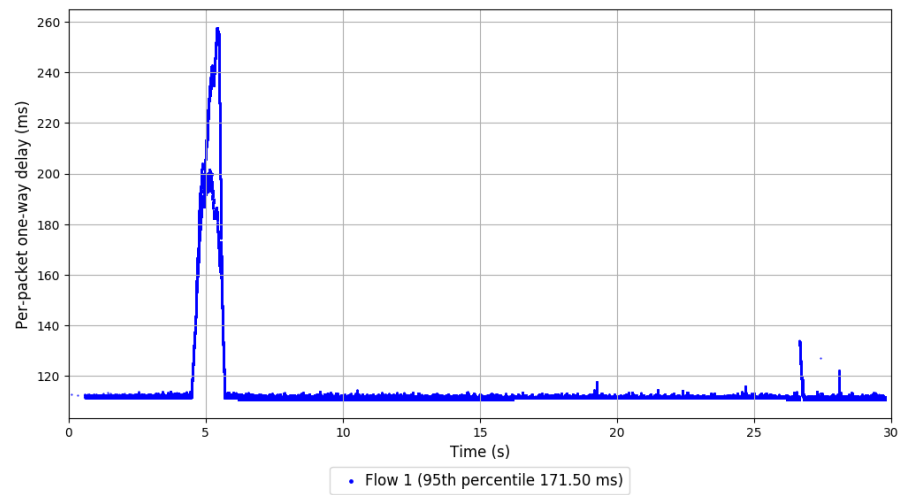
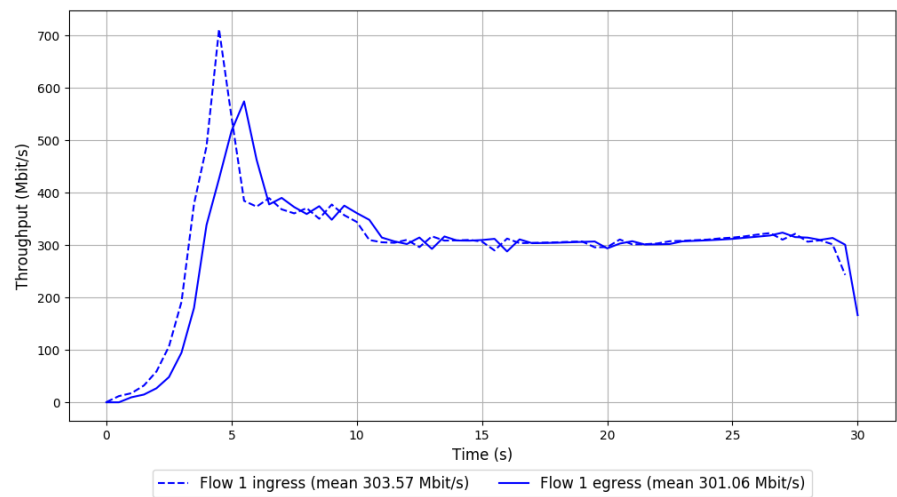
-- Flow 1:

Average throughput: 301.06 Mbit/s

95th percentile per-packet one-way delay: 171.499 ms

Loss rate: 1.57%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-05-30 21:10:46

End at: 2018-05-30 21:11:16

Local clock offset: -0.087 ms

Remote clock offset: 0.238 ms

# Below is generated by plot.py at 2018-05-30 23:23:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 190.63 Mbit/s

95th percentile per-packet one-way delay: 112.962 ms

Loss rate: 1.00%

-- Flow 1:

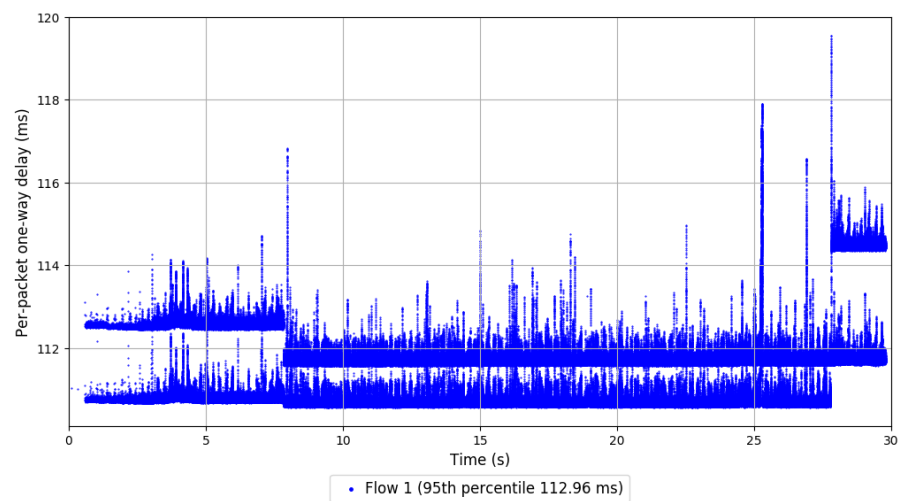
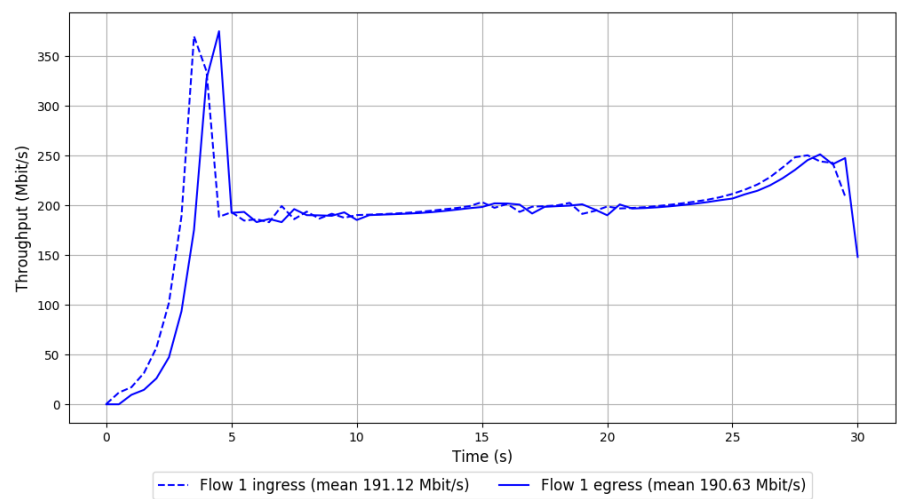
Average throughput: 190.63 Mbit/s

95th percentile per-packet one-way delay: 112.962 ms

Loss rate: 1.00%



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-30 21:32:01

End at: 2018-05-30 21:32:31

Local clock offset: -0.283 ms

Remote clock offset: 0.386 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 340.24 Mbit/s

95th percentile per-packet one-way delay: 242.981 ms

Loss rate: 7.64%

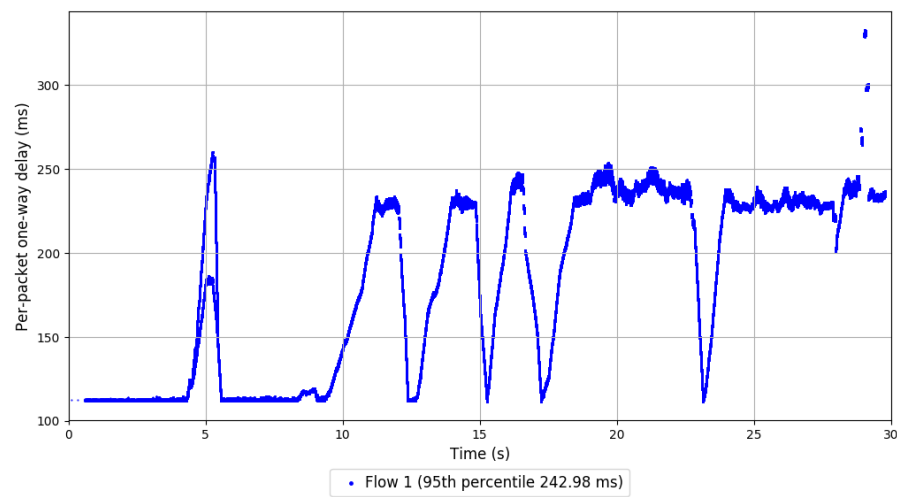
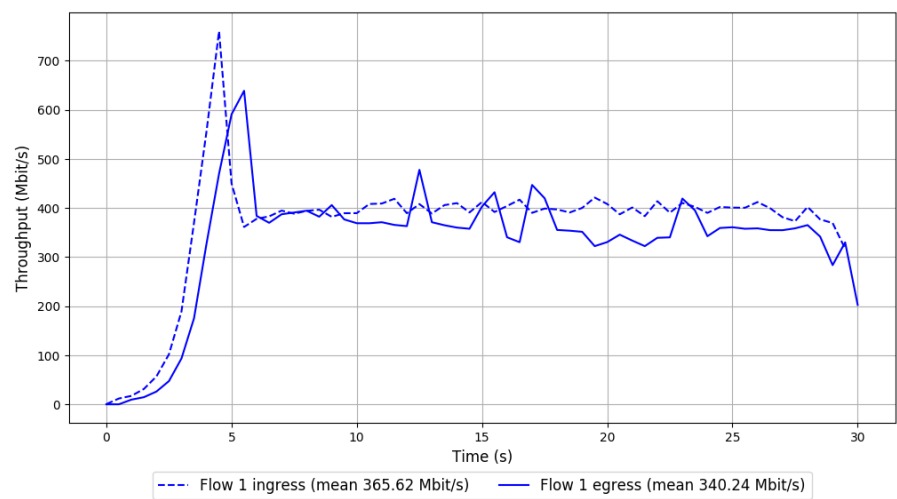
-- Flow 1:

Average throughput: 340.24 Mbit/s

95th percentile per-packet one-way delay: 242.981 ms

Loss rate: 7.64%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-30 21:53:32

End at: 2018-05-30 21:54:02

Local clock offset: -0.07 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 253.09 Mbit/s

95th percentile per-packet one-way delay: 224.982 ms

Loss rate: 4.27%

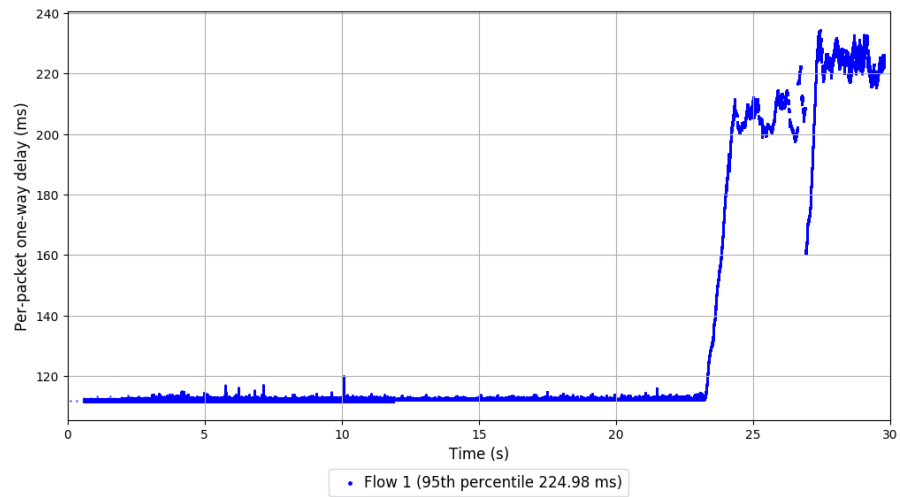
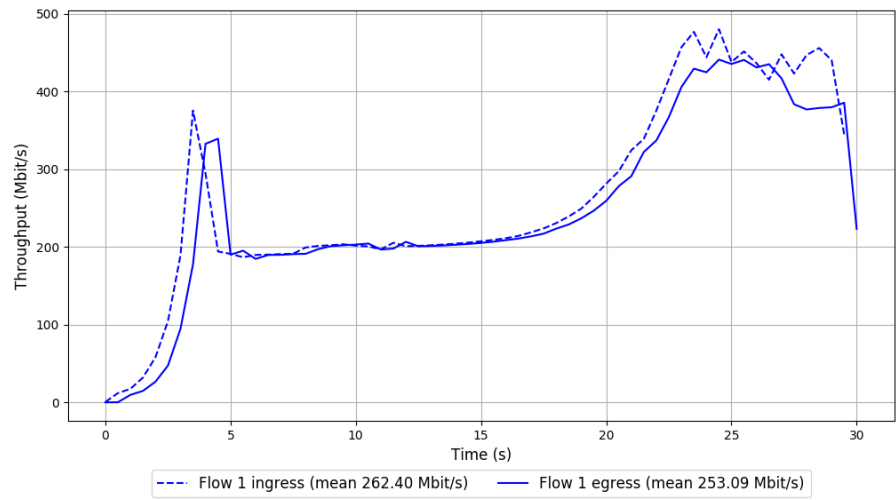
-- Flow 1:

Average throughput: 253.09 Mbit/s

95th percentile per-packet one-way delay: 224.982 ms

Loss rate: 4.27%

### Run 9: Report of PCC-Expr — Data Link

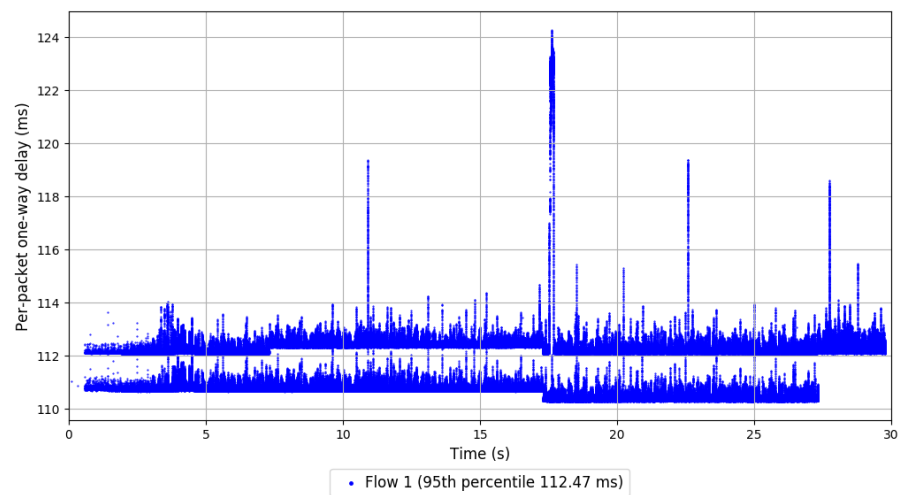
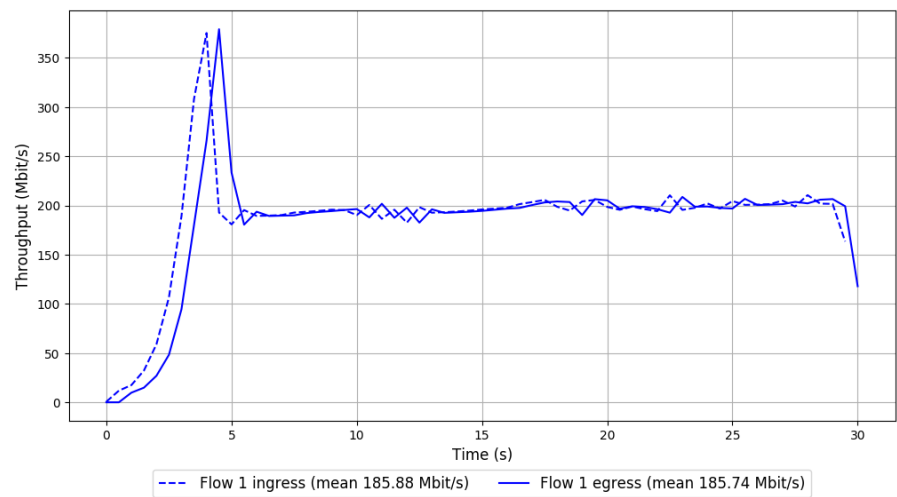


Run 10: Statistics of PCC-Expr

Start at: 2018-05-30 22:14:16  
End at: 2018-05-30 22:14:46  
Local clock offset: -0.037 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 185.74 Mbit/s  
95th percentile per-packet one-way delay: 112.475 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 185.74 Mbit/s  
95th percentile per-packet one-way delay: 112.475 ms  
Loss rate: 0.82%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-30 19:09:17

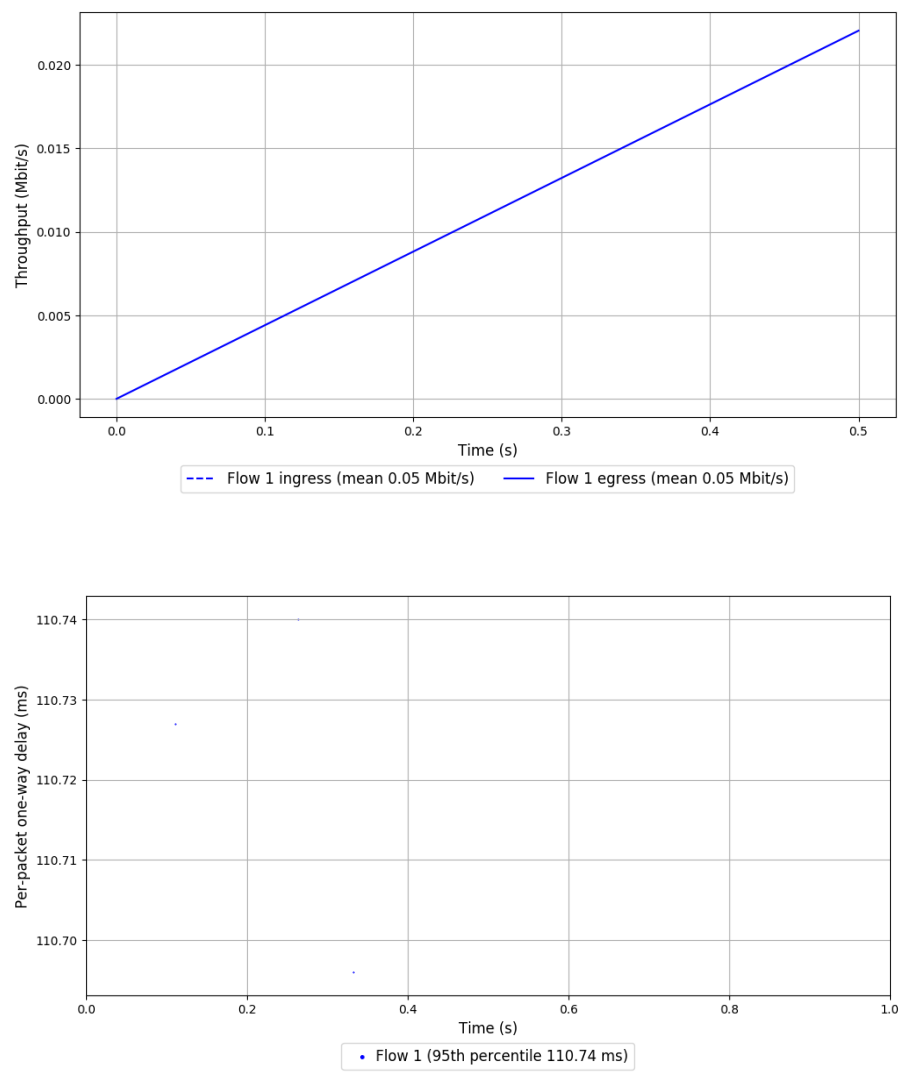
End at: 2018-05-30 19:09:47

Local clock offset: -0.293 ms

Remote clock offset: -0.4 ms



Run 1: Report of QUIC Cubic — Data Link

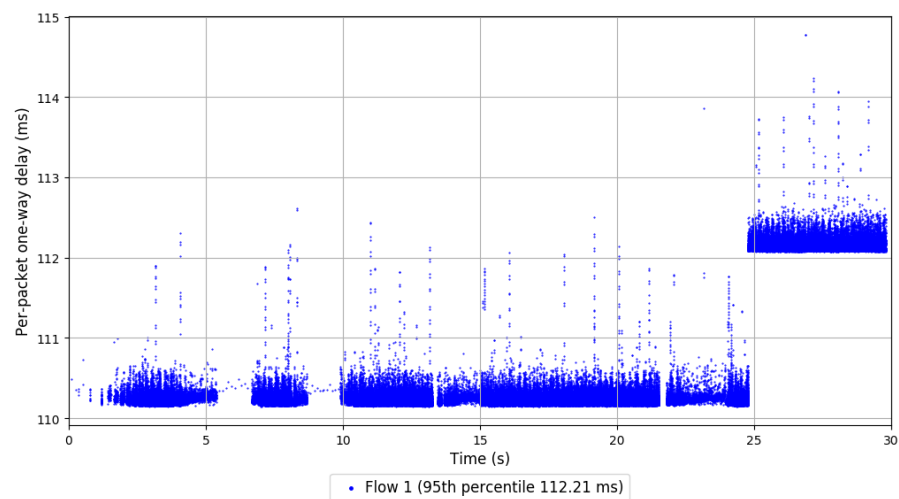
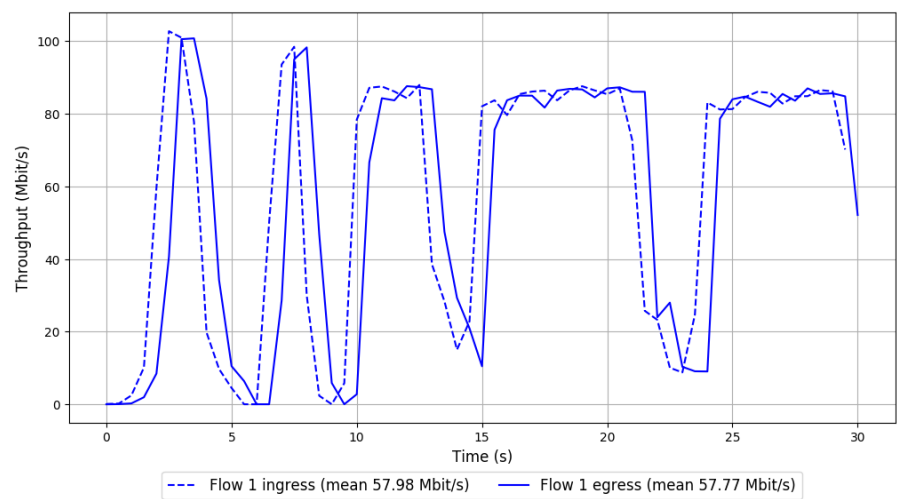


Run 2: Statistics of QUIC Cubic

Start at: 2018-05-30 19:30:09  
End at: 2018-05-30 19:30:39  
Local clock offset: -0.917 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.77 Mbit/s  
95th percentile per-packet one-way delay: 112.208 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 57.77 Mbit/s  
95th percentile per-packet one-way delay: 112.208 ms  
Loss rate: 1.10%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-30 19:51:09

End at: 2018-05-30 19:51:39

Local clock offset: -0.98 ms

Remote clock offset: -0.846 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 111.485 ms

Loss rate: 0.99%

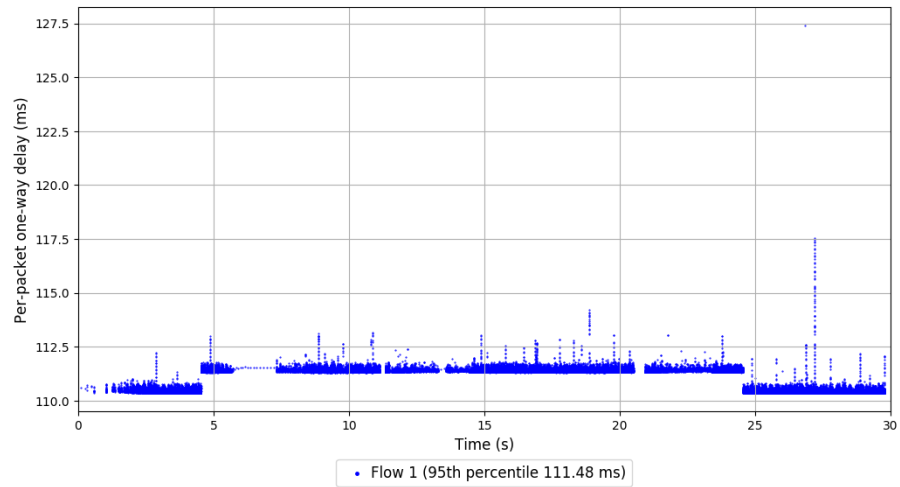
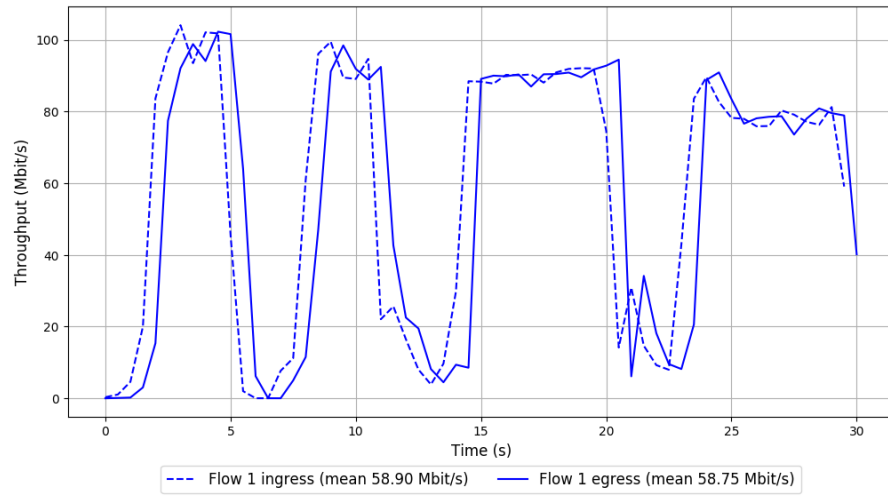
-- Flow 1:

Average throughput: 58.75 Mbit/s

95th percentile per-packet one-way delay: 111.485 ms

Loss rate: 0.99%

### Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-30 20:12:02

End at: 2018-05-30 20:12:32

Local clock offset: 0.0 ms

Remote clock offset: 0.221 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.05 Mbit/s

95th percentile per-packet one-way delay: 112.247 ms

Loss rate: 1.17%

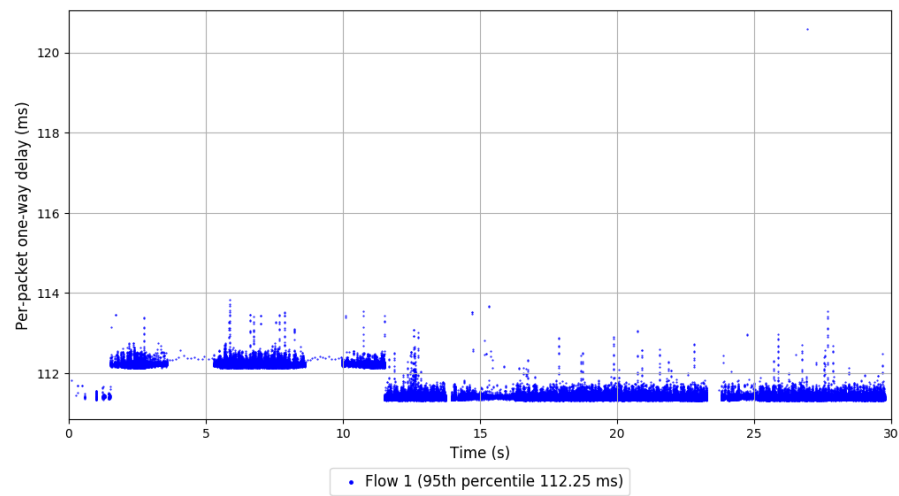
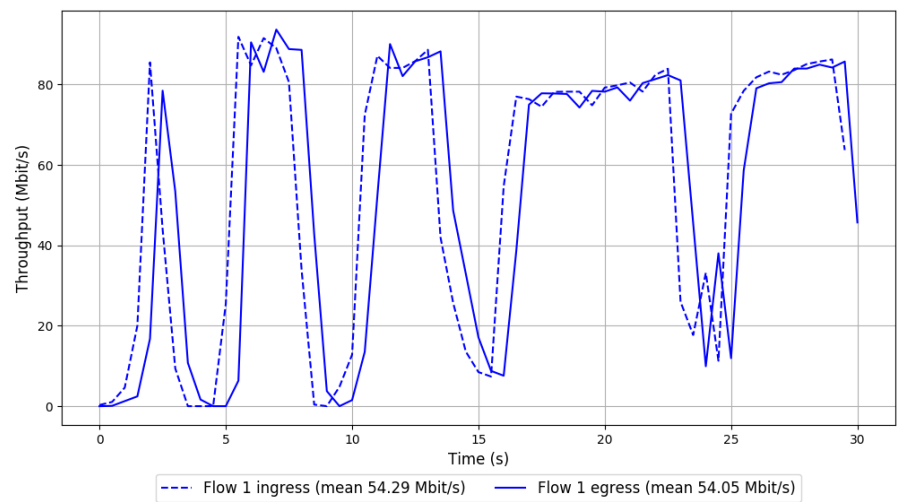
-- Flow 1:

Average throughput: 54.05 Mbit/s

95th percentile per-packet one-way delay: 112.247 ms

Loss rate: 1.17%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-30 20:33:08

End at: 2018-05-30 20:33:38

Local clock offset: 0.012 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 111.594 ms

Loss rate: 0.95%

-- Flow 1:

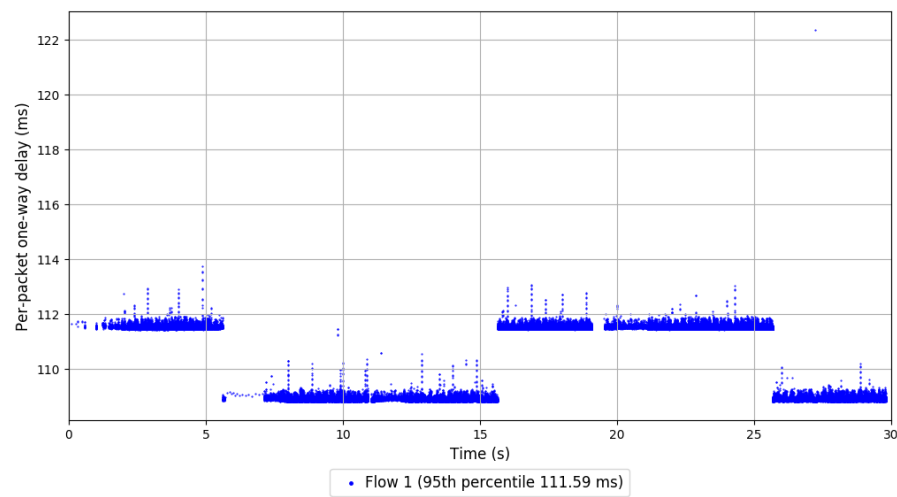
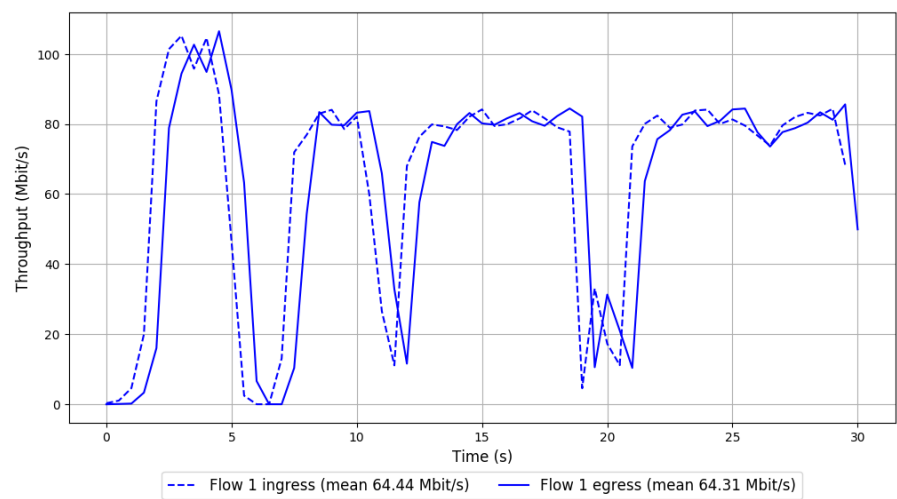
Average throughput: 64.31 Mbit/s

95th percentile per-packet one-way delay: 111.594 ms

Loss rate: 0.95%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-30 20:53:59

End at: 2018-05-30 20:54:29

Local clock offset: -0.245 ms

Remote clock offset: 0.153 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 112.282 ms

Loss rate: 1.03%

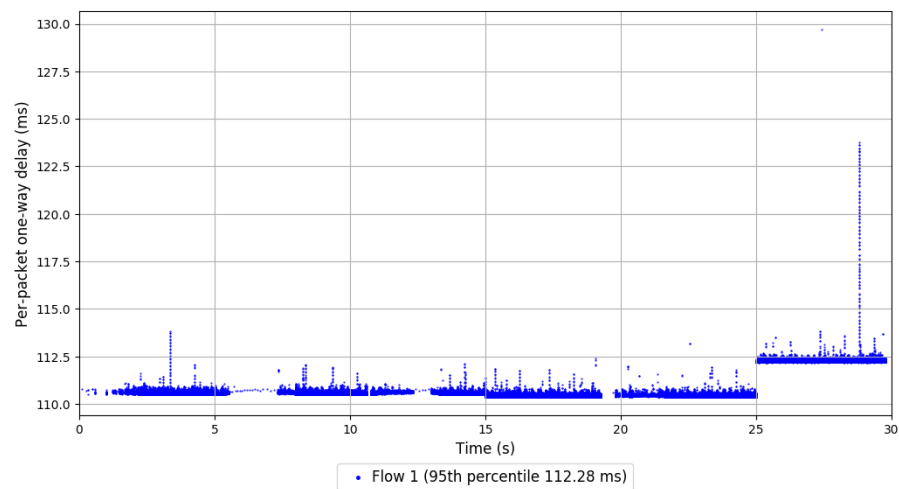
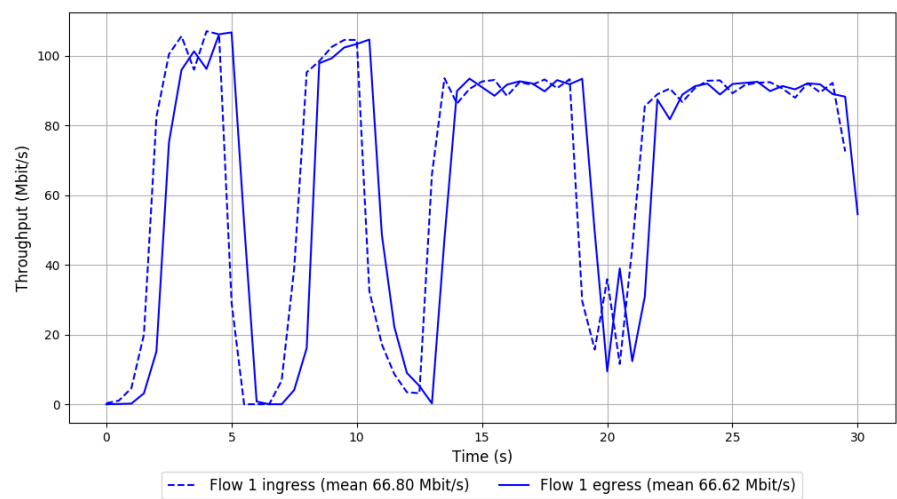
-- Flow 1:

Average throughput: 66.62 Mbit/s

95th percentile per-packet one-way delay: 112.282 ms

Loss rate: 1.03%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-30 21:14:46

End at: 2018-05-30 21:15:16

Local clock offset: -0.267 ms

Remote clock offset: 0.251 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 112.582 ms

Loss rate: 0.94%

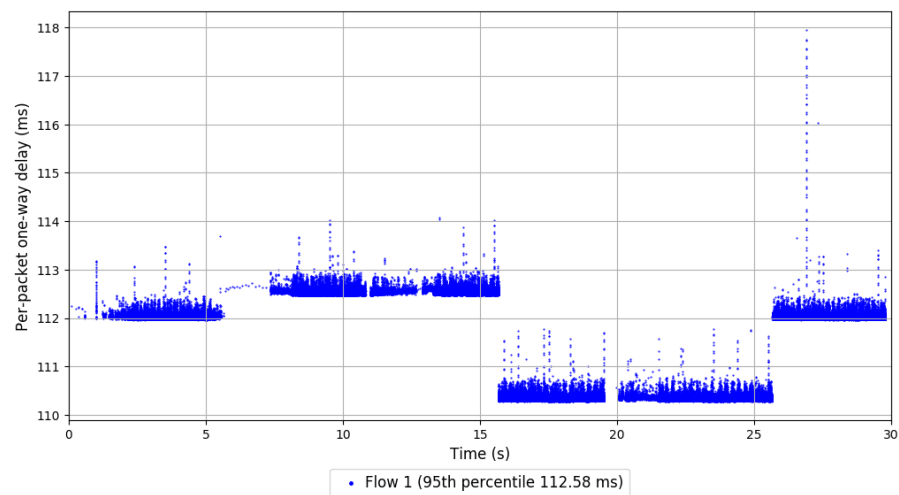
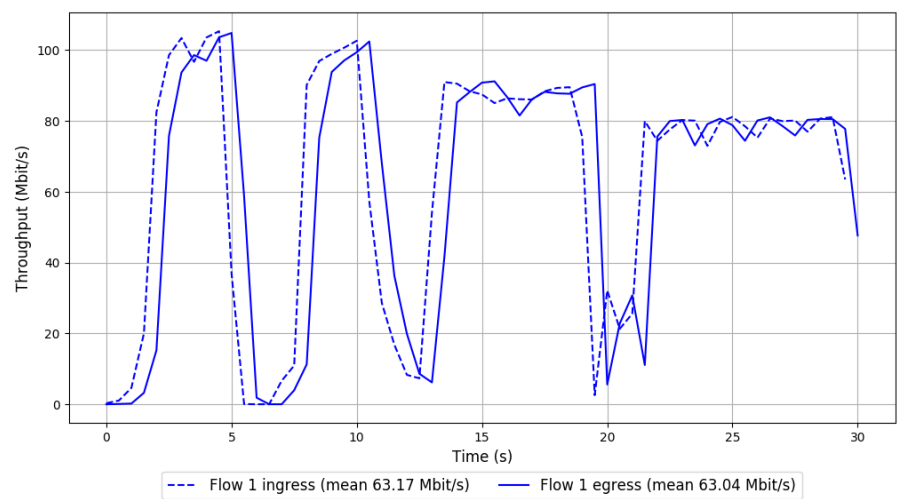
-- Flow 1:

Average throughput: 63.04 Mbit/s

95th percentile per-packet one-way delay: 112.582 ms

Loss rate: 0.94%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-30 21:36:17

End at: 2018-05-30 21:36:47

Local clock offset: -0.264 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 112.419 ms

Loss rate: 0.95%

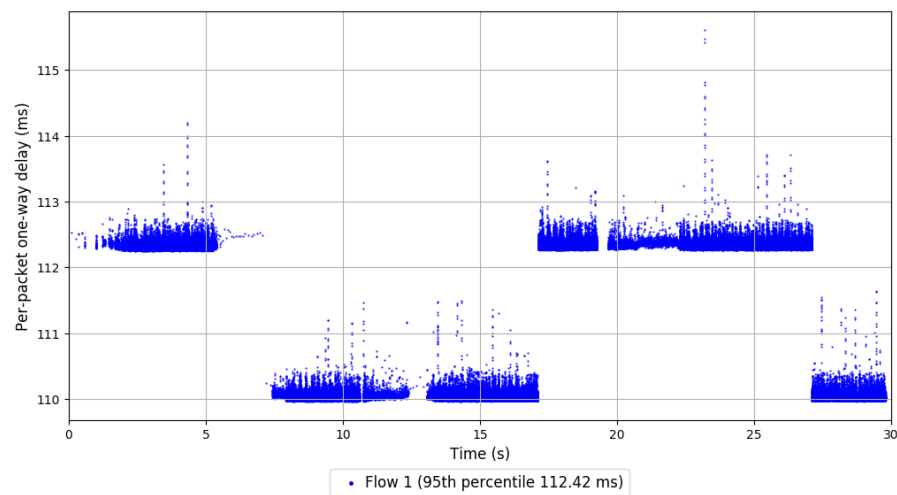
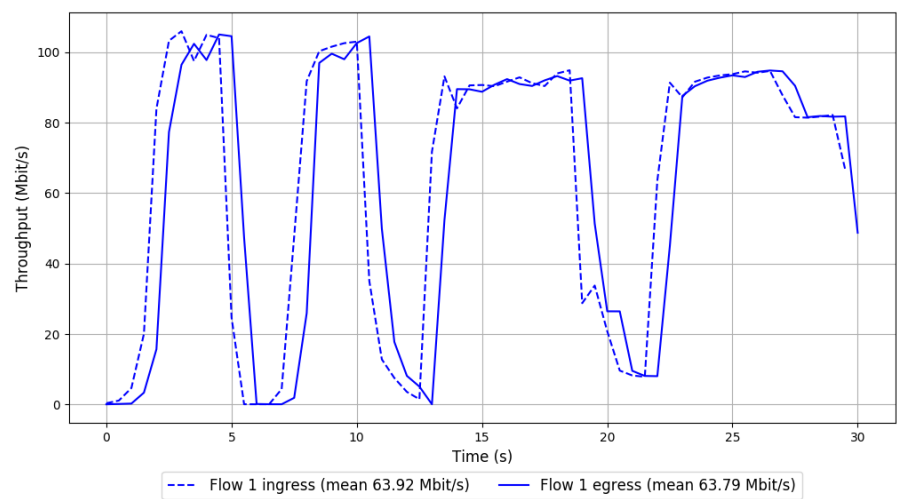
-- Flow 1:

Average throughput: 63.79 Mbit/s

95th percentile per-packet one-way delay: 112.419 ms

Loss rate: 0.95%

Run 8: Report of QUIC Cubic — Data Link



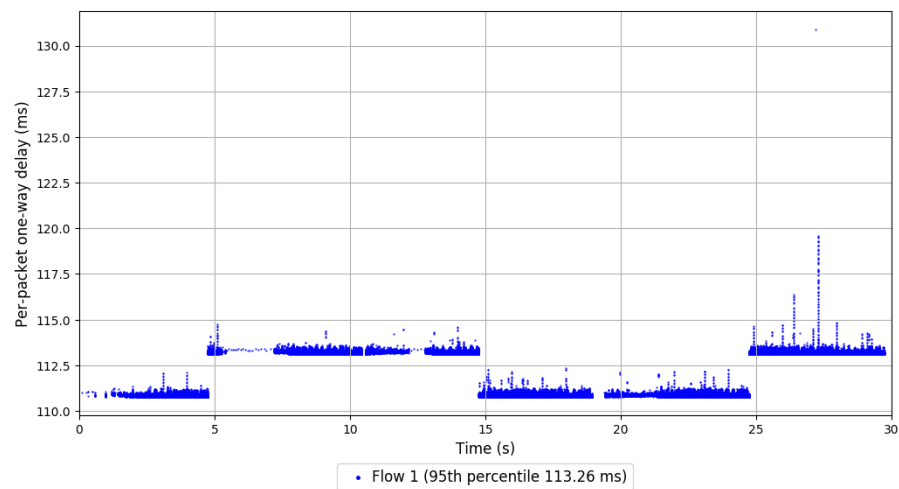
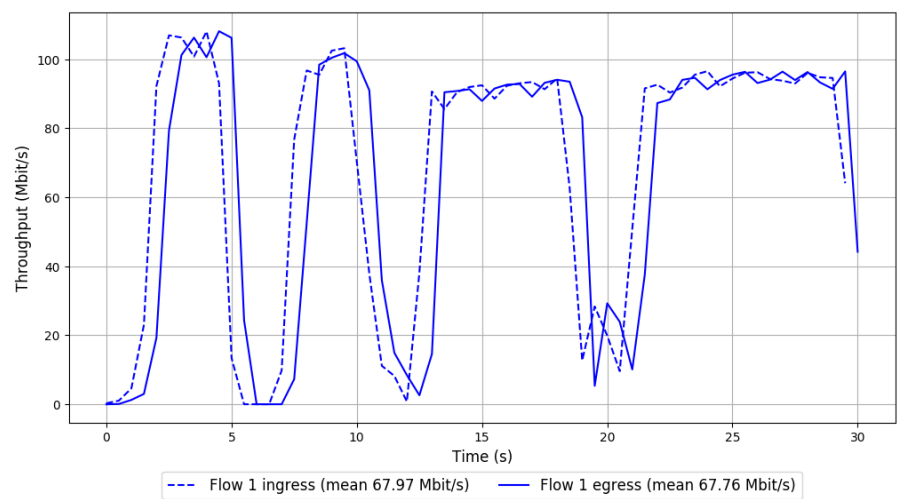
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-30 21:57:39  
End at: 2018-05-30 21:58:09  
Local clock offset: -0.036 ms  
Remote clock offset: -0.397 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 67.76 Mbit/s  
95th percentile per-packet one-way delay: 113.261 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 67.76 Mbit/s  
95th percentile per-packet one-way delay: 113.261 ms  
Loss rate: 1.04%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-30 22:18:17

End at: 2018-05-30 22:18:47

Local clock offset: -0.083 ms

Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.75 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 1.04%

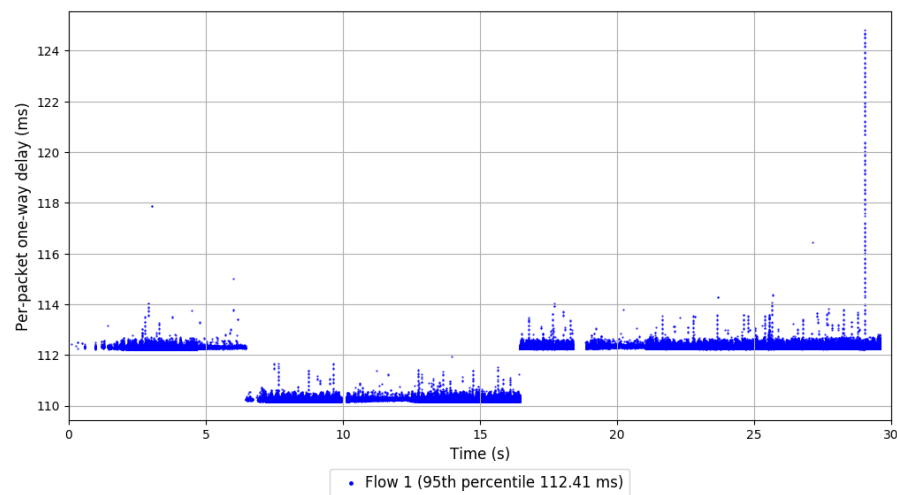
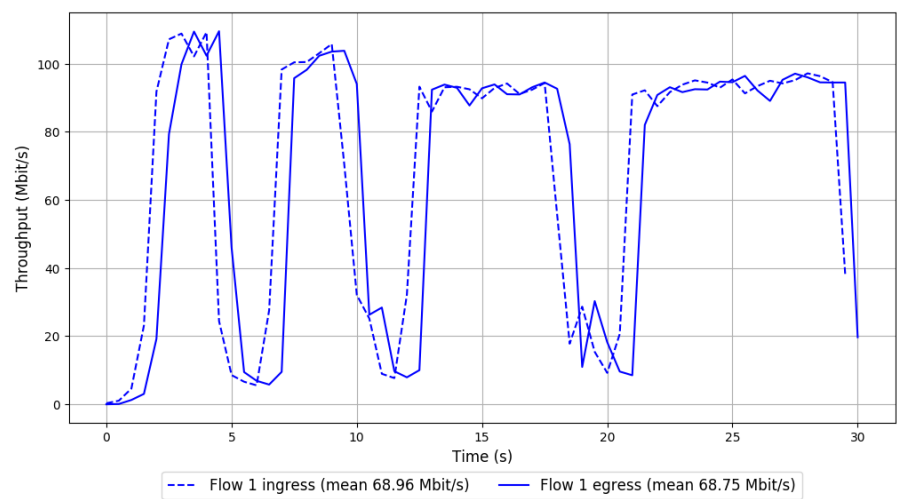
-- Flow 1:

Average throughput: 68.75 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 1.04%

Run 10: Report of QUIC Cubic — Data Link

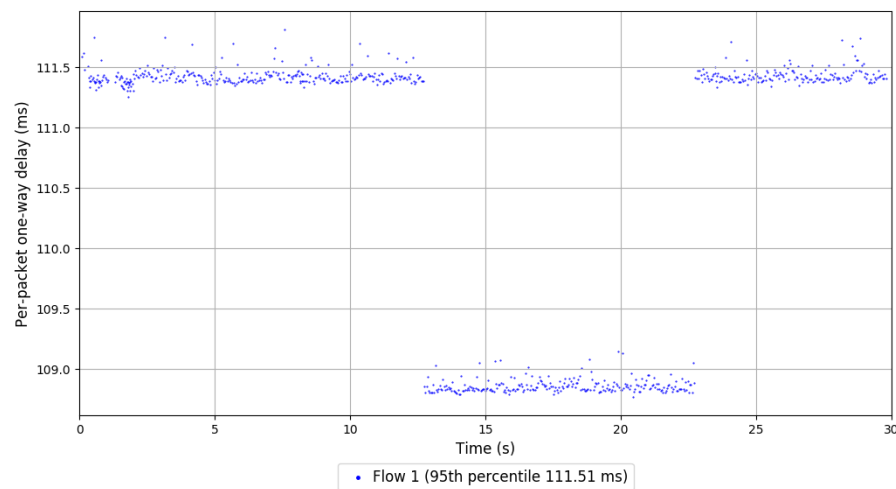
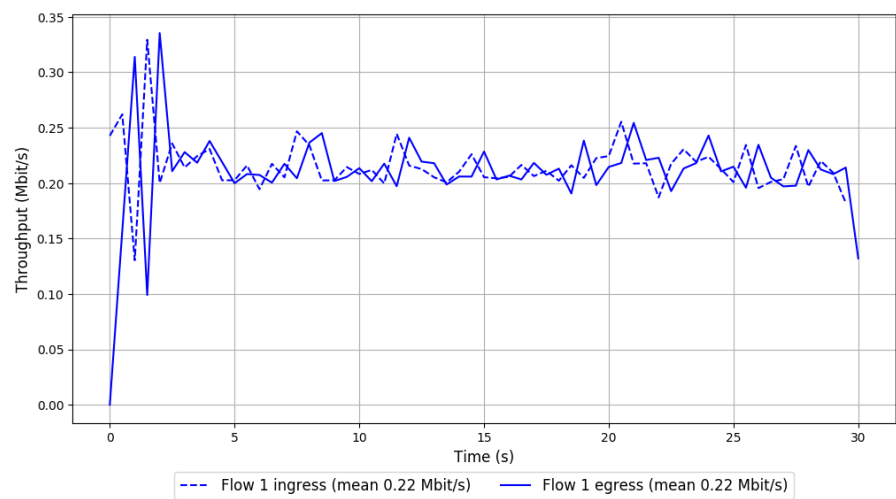


Run 1: Statistics of SCReAM

Start at: 2018-05-30 19:06:41  
End at: 2018-05-30 19:07:11  
Local clock offset: -0.662 ms  
Remote clock offset: -0.386 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.513 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.513 ms  
Loss rate: 0.77%

Run 1: Report of SReAM — Data Link

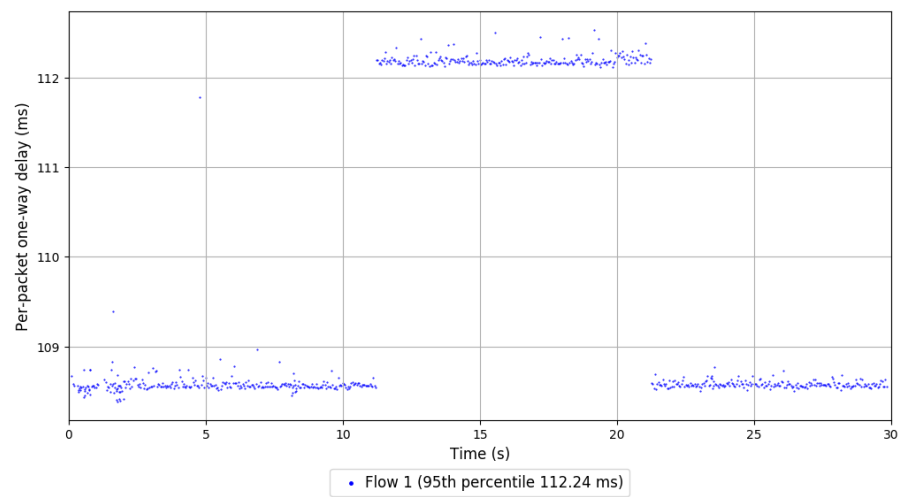
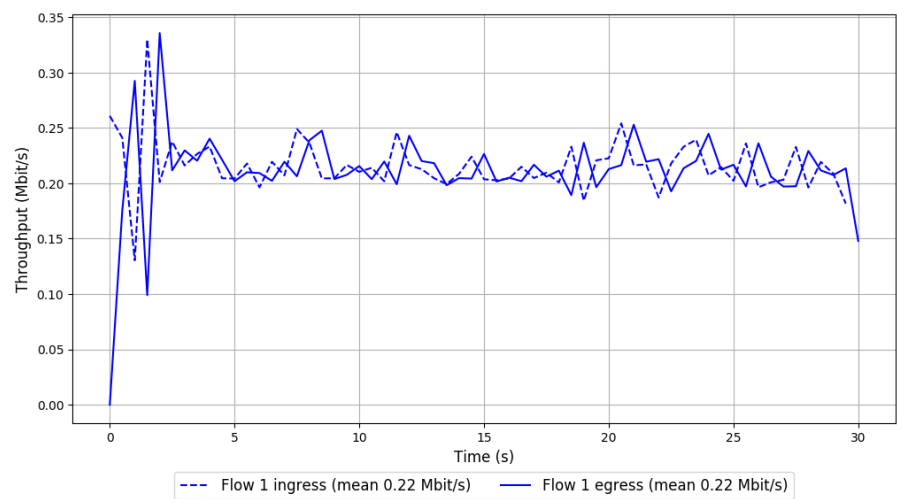


Run 2: Statistics of SCReAM

Start at: 2018-05-30 19:27:32  
End at: 2018-05-30 19:28:02  
Local clock offset: -0.66 ms  
Remote clock offset: -0.207 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.237 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.237 ms  
Loss rate: 0.64%

Run 2: Report of SReAM — Data Link



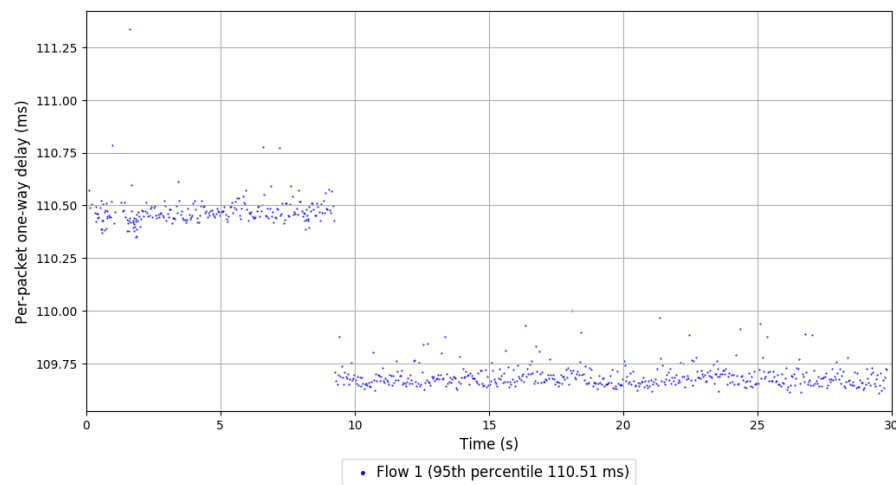
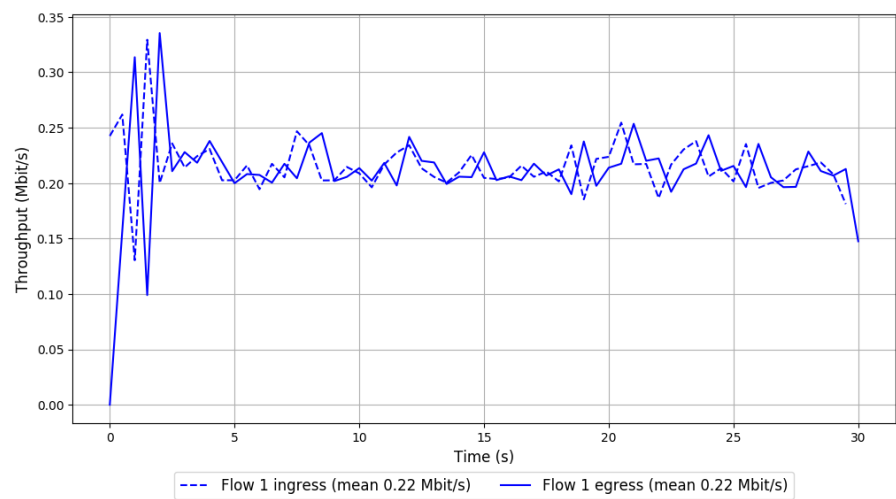
Run 3: Statistics of SCReAM

Start at: 2018-05-30 19:48:34  
End at: 2018-05-30 19:49:04  
Local clock offset: -1.068 ms  
Remote clock offset: -0.835 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 110.510 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 110.510 ms  
Loss rate: 0.64%



Run 3: Report of SReAM — Data Link

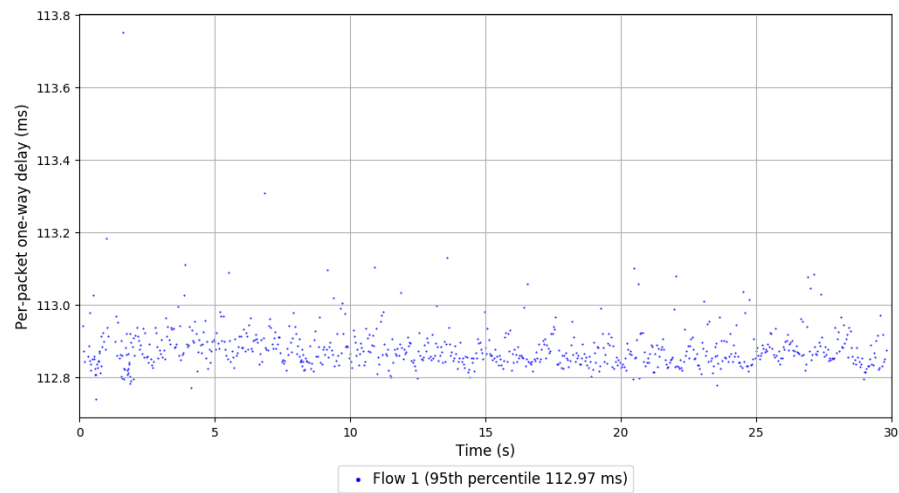
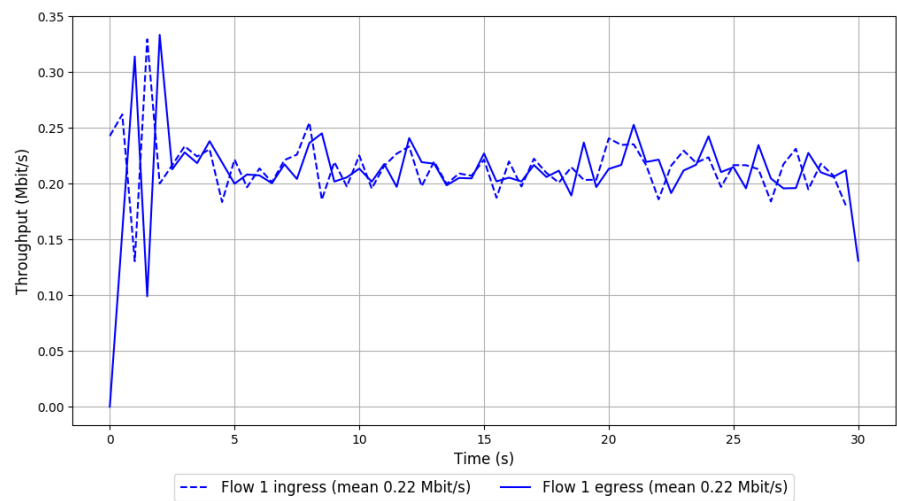


Run 4: Statistics of SCReAM

Start at: 2018-05-30 20:09:26  
End at: 2018-05-30 20:09:56  
Local clock offset: -0.306 ms  
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.970 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 112.970 ms  
Loss rate: 0.76%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-05-30 20:30:32

End at: 2018-05-30 20:31:02

Local clock offset: -0.006 ms

Remote clock offset: 0.413 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.042 ms

Loss rate: 0.77%

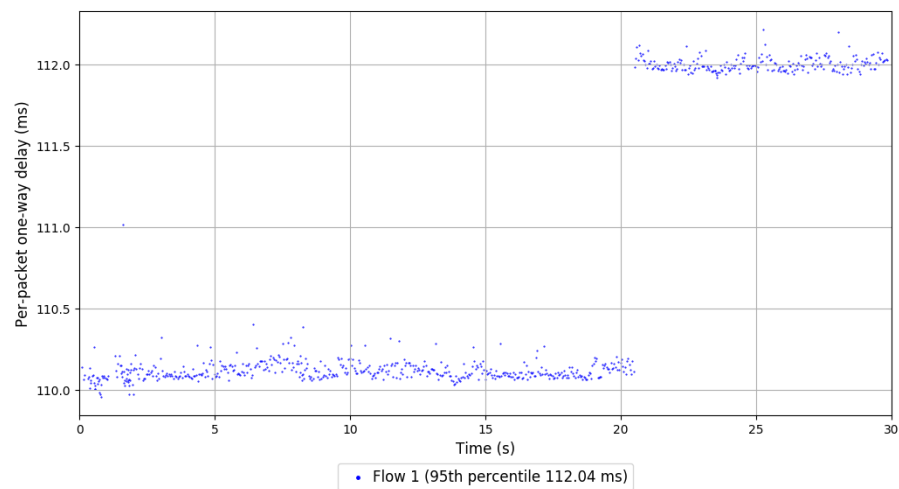
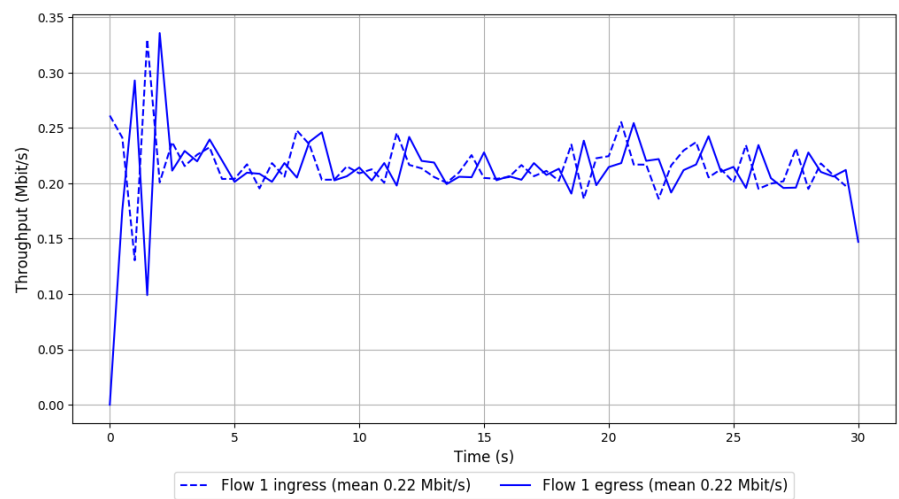
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.042 ms

Loss rate: 0.77%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-05-30 20:51:23

End at: 2018-05-30 20:51:53

Local clock offset: -0.11 ms

Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.634 ms

Loss rate: 0.77%

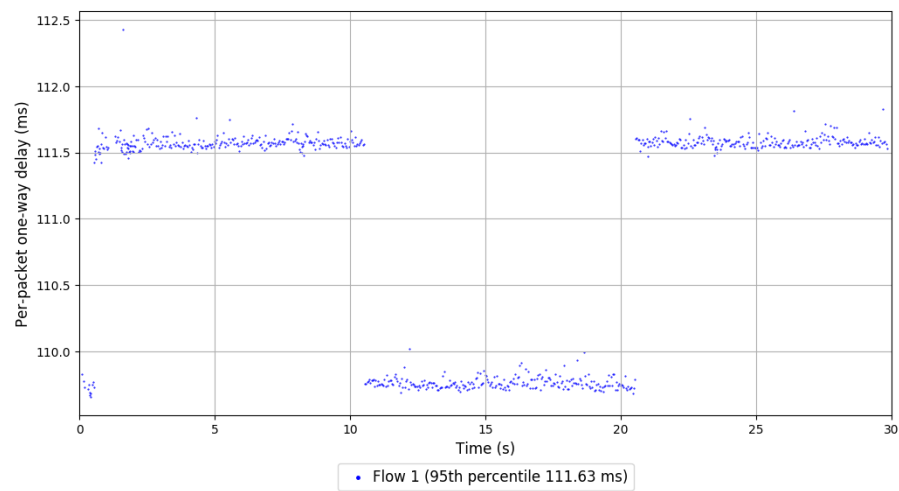
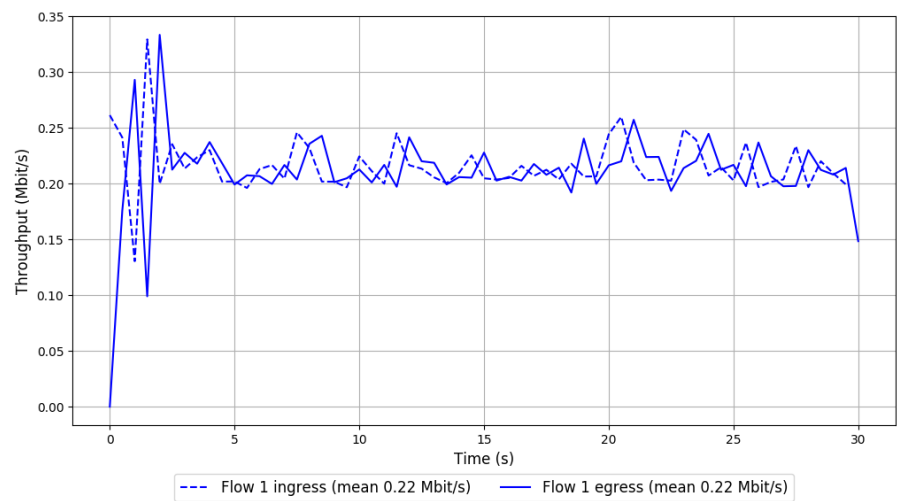
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 111.634 ms

Loss rate: 0.77%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SCReAM

Start at: 2018-05-30 21:12:11

End at: 2018-05-30 21:12:41

Local clock offset: -0.309 ms

Remote clock offset: 0.354 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.621 ms

Loss rate: 0.77%

-- Flow 1:

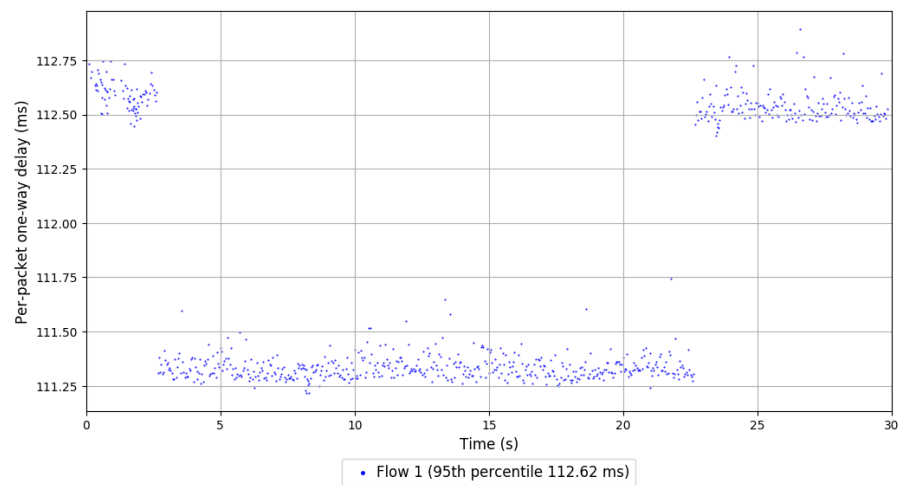
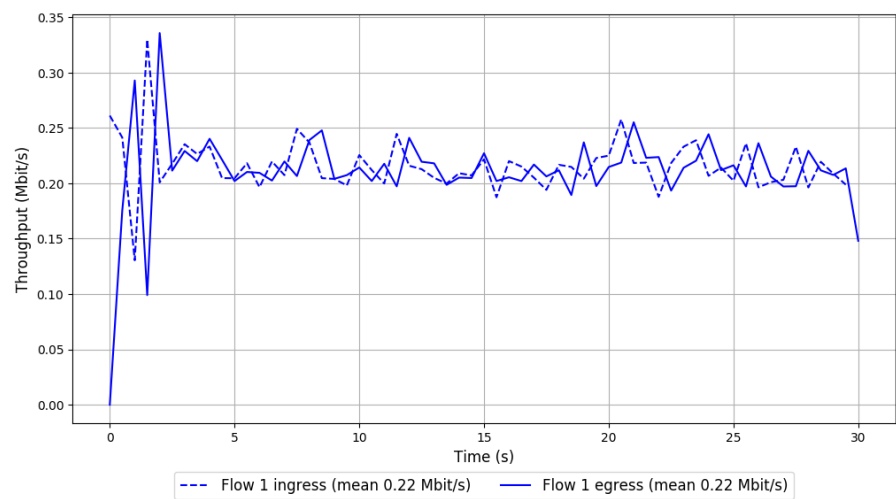
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.621 ms

Loss rate: 0.77%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-30 21:33:40

End at: 2018-05-30 21:34:10

Local clock offset: -0.156 ms

Remote clock offset: 0.785 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.260 ms

Loss rate: 0.77%

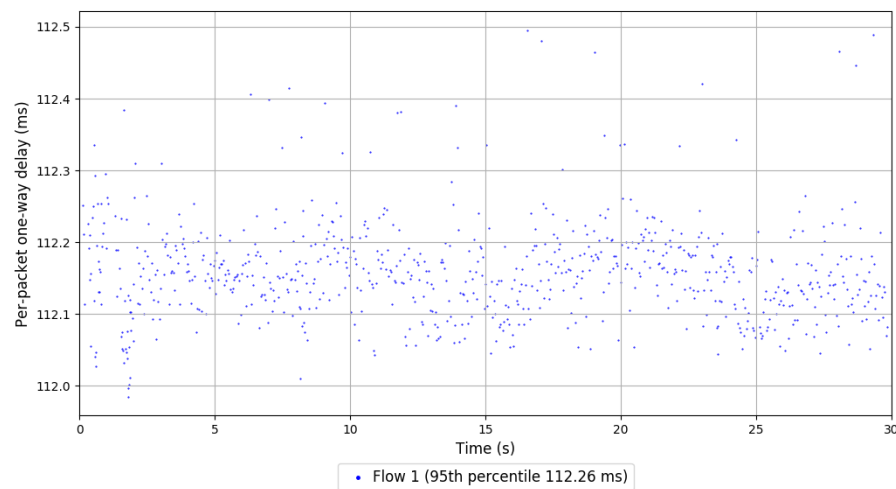
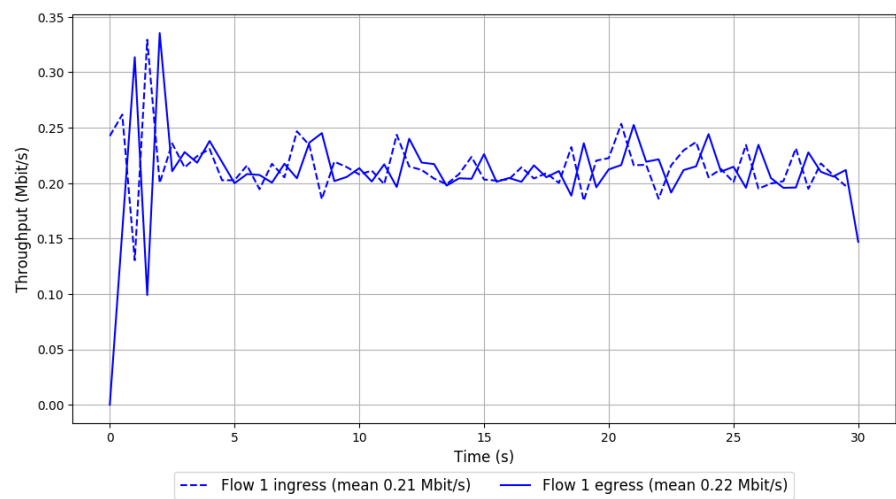
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.260 ms

Loss rate: 0.77%

Run 8: Report of SCRaM — Data Link

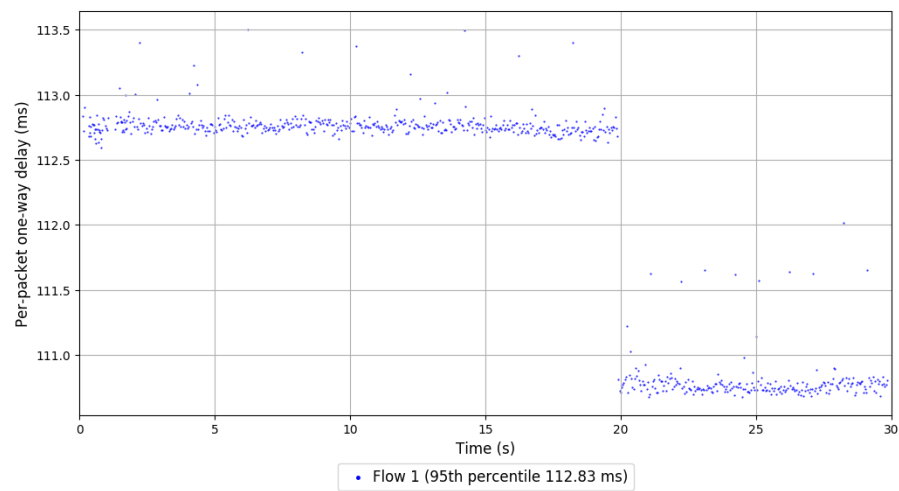
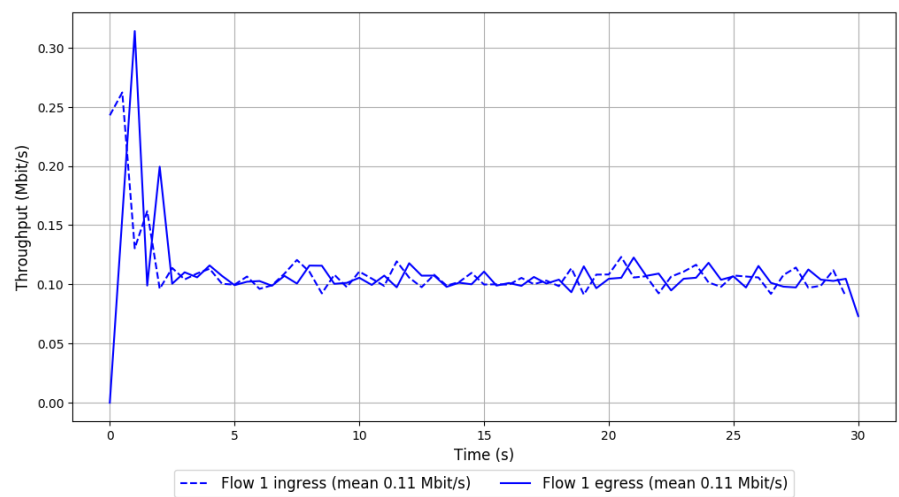


Run 9: Statistics of SCReAM

Start at: 2018-05-30 21:55:04  
End at: 2018-05-30 21:55:34  
Local clock offset: -0.016 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 112.834 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 112.834 ms  
Loss rate: 0.62%

Run 9: Report of SReAM — Data Link

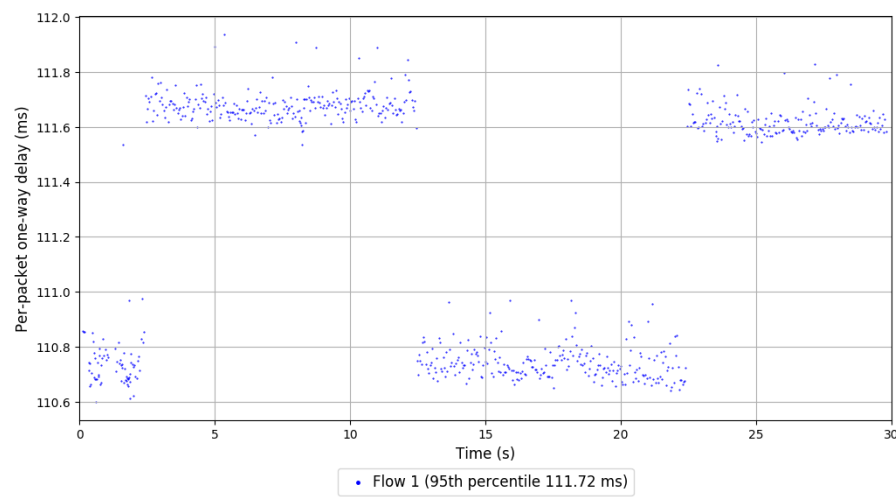
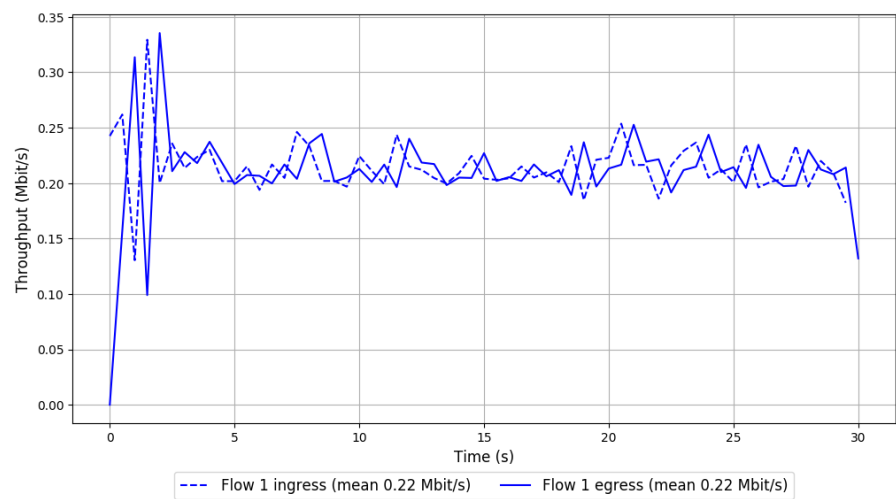


Run 10: Statistics of SReAM

Start at: 2018-05-30 22:15:41  
End at: 2018-05-30 22:16:11  
Local clock offset: -0.021 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.724 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 111.724 ms  
Loss rate: 0.77%

Run 10: Report of SReAM — Data Link



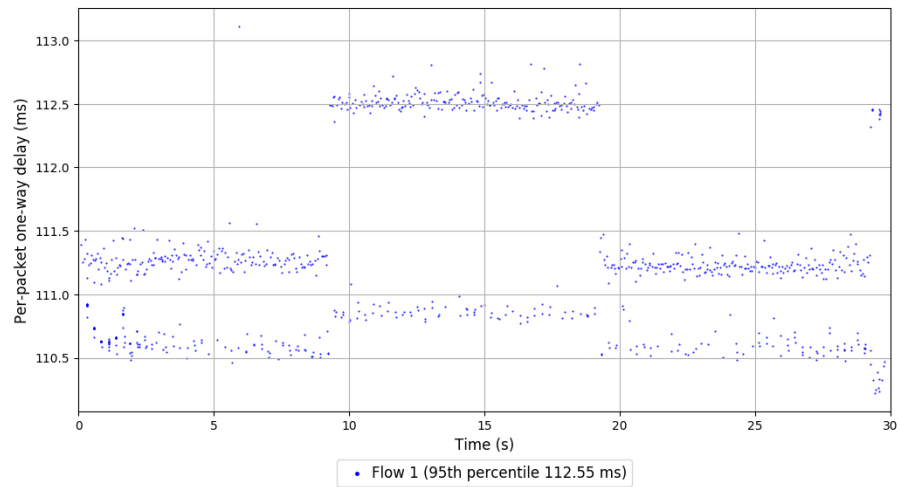
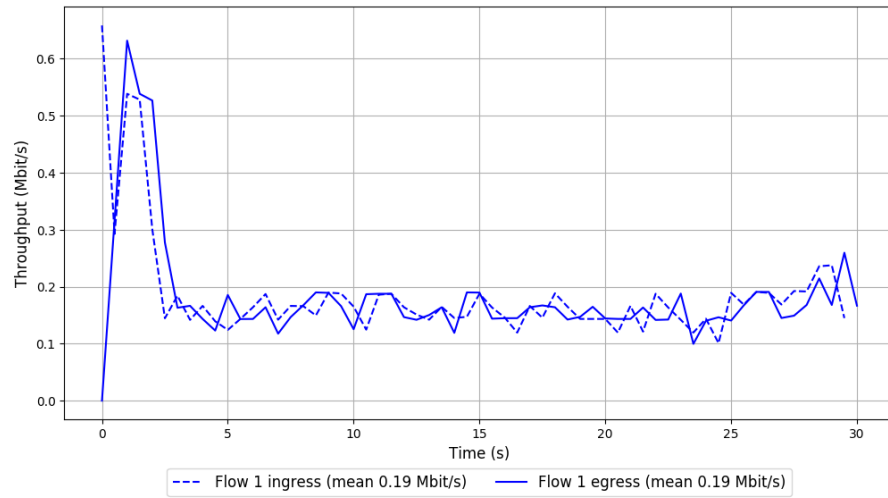
Run 1: Statistics of Sprout

Start at: 2018-05-30 19:10:24  
End at: 2018-05-30 19:10:54  
Local clock offset: -0.457 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 112.548 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 112.548 ms  
Loss rate: 0.83%



## Run 1: Report of Sprout — Data Link

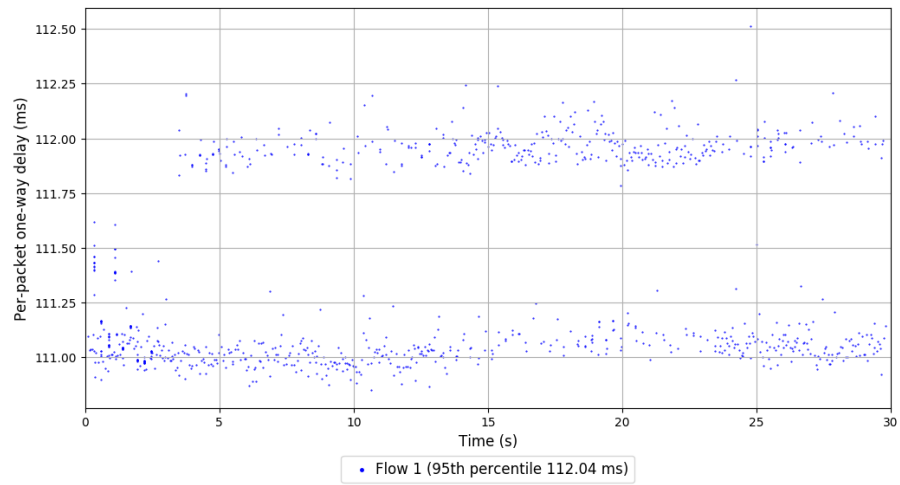
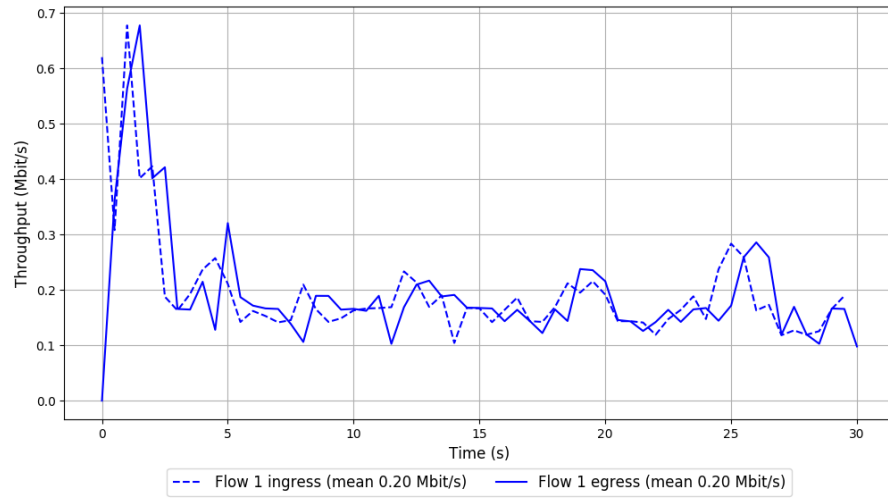


Run 2: Statistics of Sprout

Start at: 2018-05-30 19:31:20  
End at: 2018-05-30 19:31:50  
Local clock offset: -0.905 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 112.038 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 112.038 ms  
Loss rate: 0.79%

## Run 2: Report of Sprout — Data Link

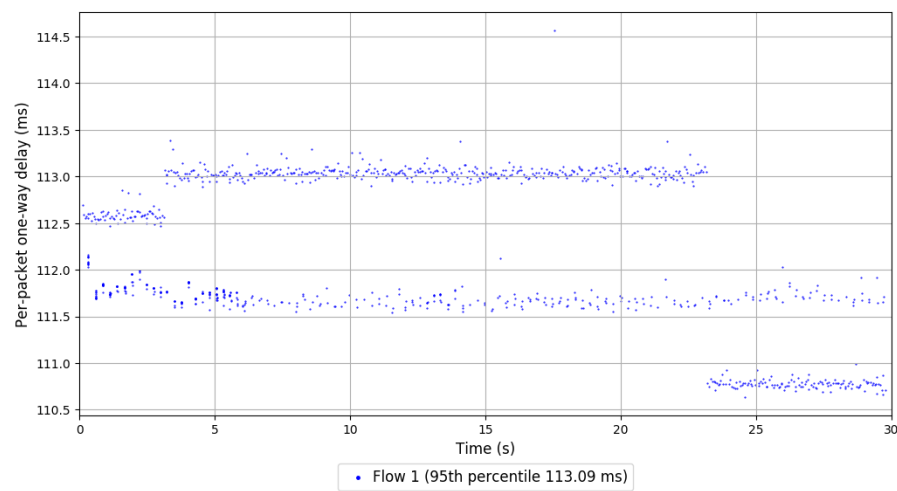
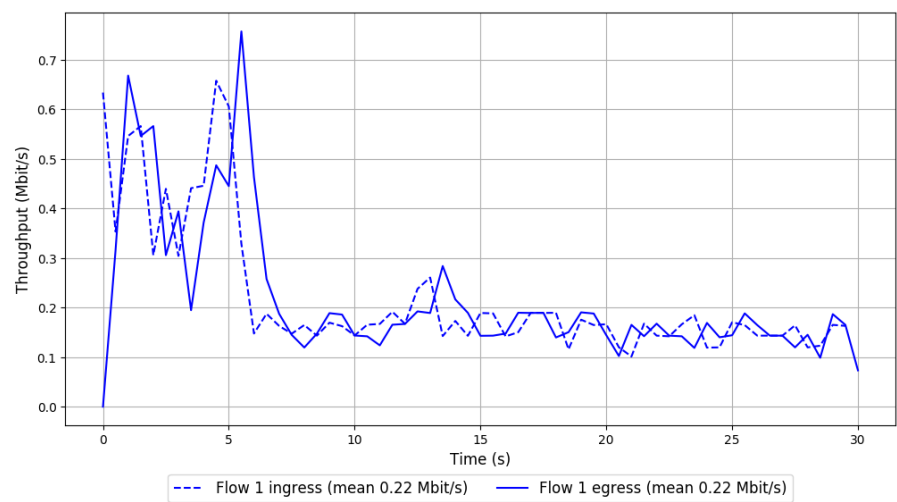


Run 3: Statistics of Sprout

Start at: 2018-05-30 19:52:20  
End at: 2018-05-30 19:52:50  
Local clock offset: -0.937 ms  
Remote clock offset: -0.917 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 113.091 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 113.091 ms  
Loss rate: 0.70%

Run 3: Report of Sprout — Data Link

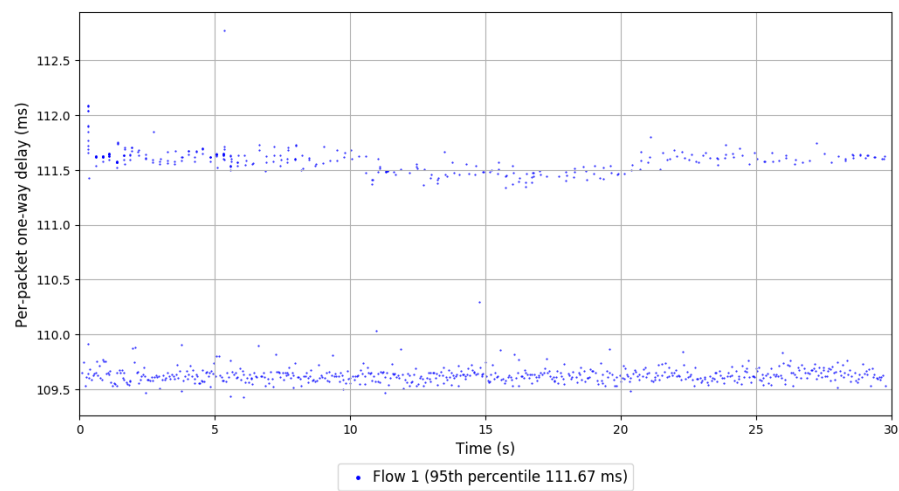
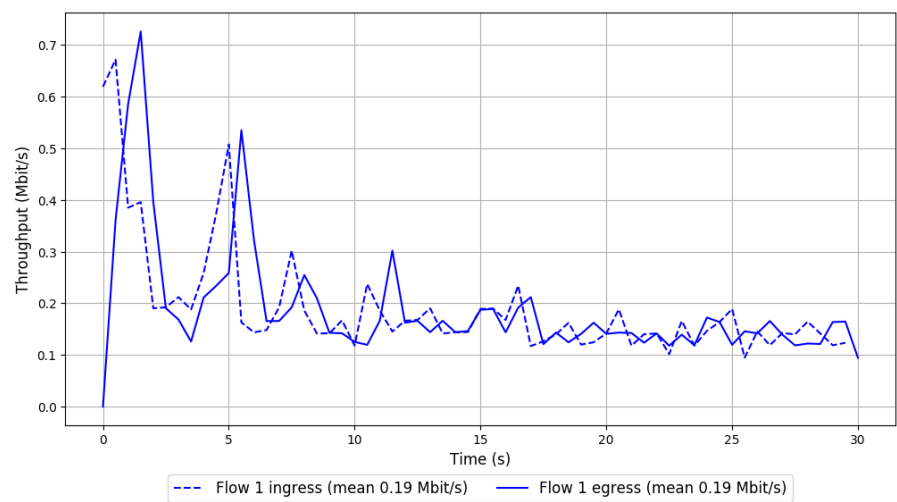


Run 4: Statistics of Sprout

Start at: 2018-05-30 20:13:13  
End at: 2018-05-30 20:13:43  
Local clock offset: -0.426 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 111.668 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 111.668 ms  
Loss rate: 0.43%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-30 20:34:20

End at: 2018-05-30 20:34:50

Local clock offset: -0.052 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 111.832 ms

Loss rate: 0.07%

-- Flow 1:

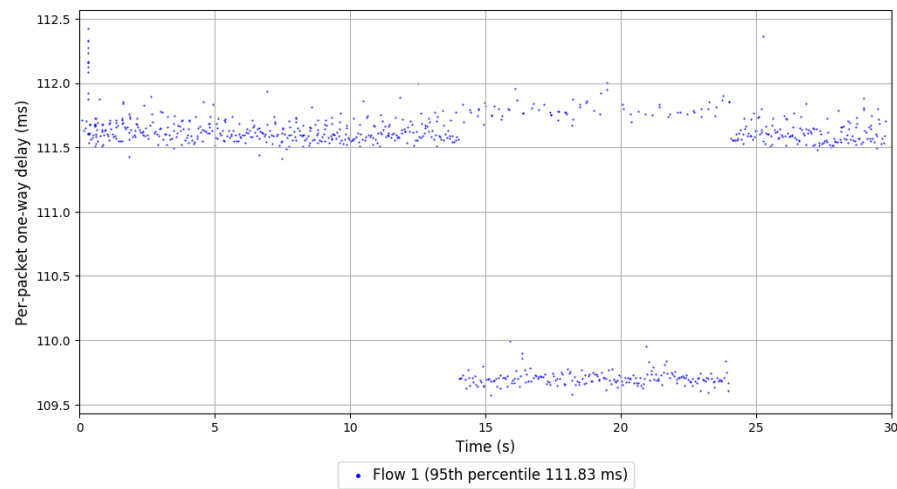
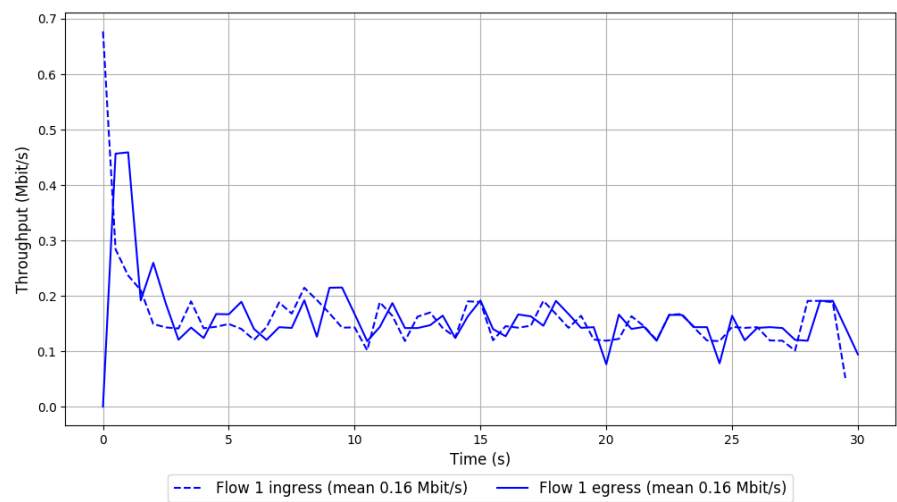
Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 111.832 ms

Loss rate: 0.07%



Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-30 20:55:10

End at: 2018-05-30 20:55:40

Local clock offset: 0.146 ms

Remote clock offset: 0.104 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.047 ms

Loss rate: 0.05%

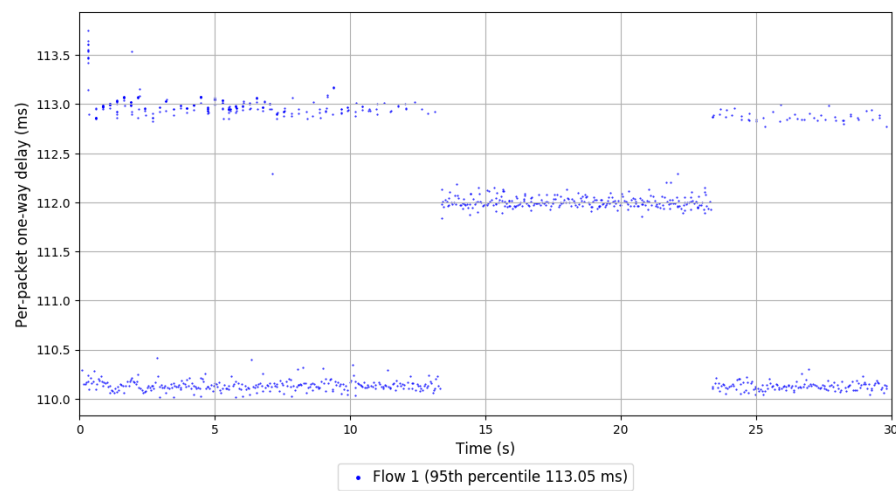
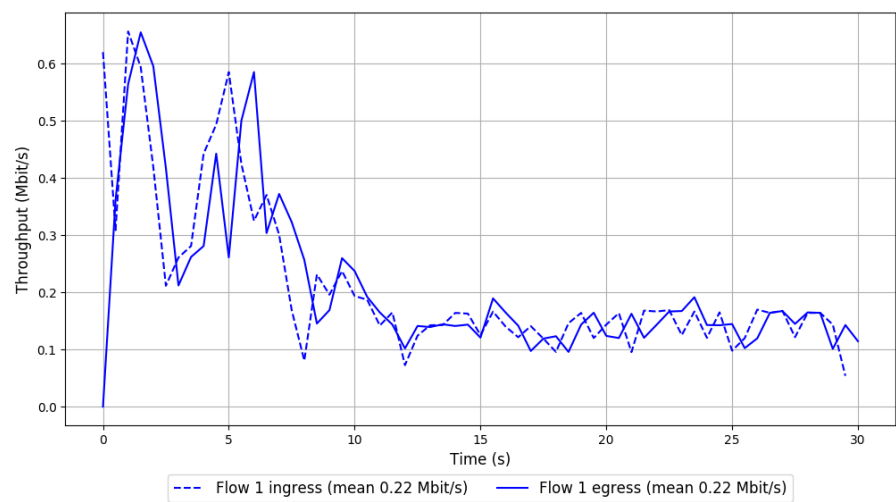
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 113.047 ms

Loss rate: 0.05%

Run 6: Report of Sprout — Data Link

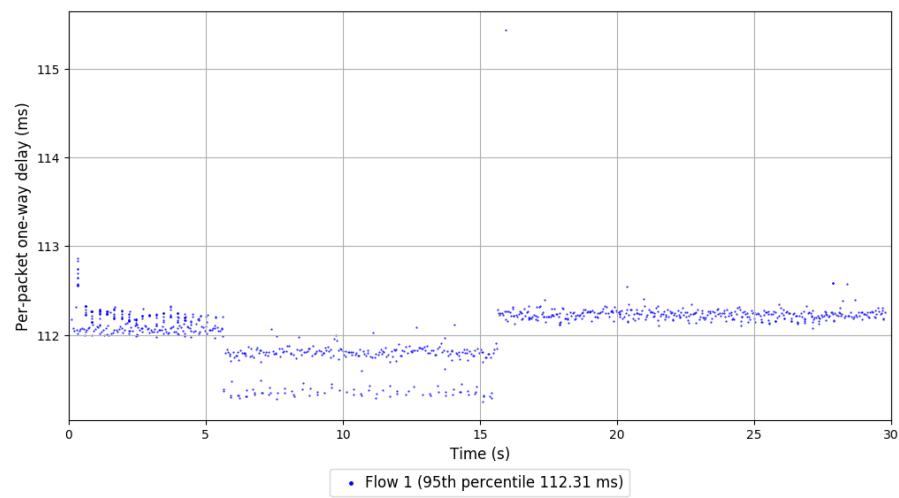
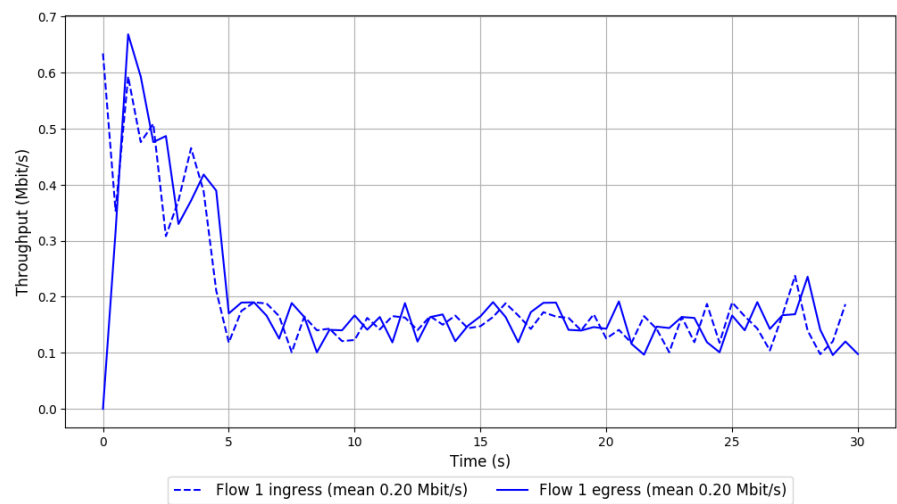


Run 7: Statistics of Sprout

Start at: 2018-05-30 21:15:58  
End at: 2018-05-30 21:16:28  
Local clock offset: -0.168 ms  
Remote clock offset: 0.654 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 112.310 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 112.310 ms  
Loss rate: 0.79%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-30 21:37:28

End at: 2018-05-30 21:37:58

Local clock offset: -0.151 ms

Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.766 ms

Loss rate: 0.58%

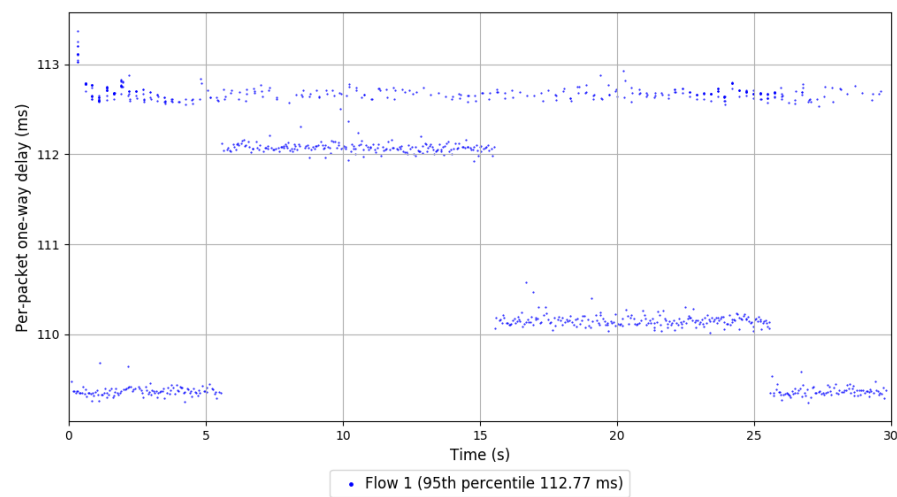
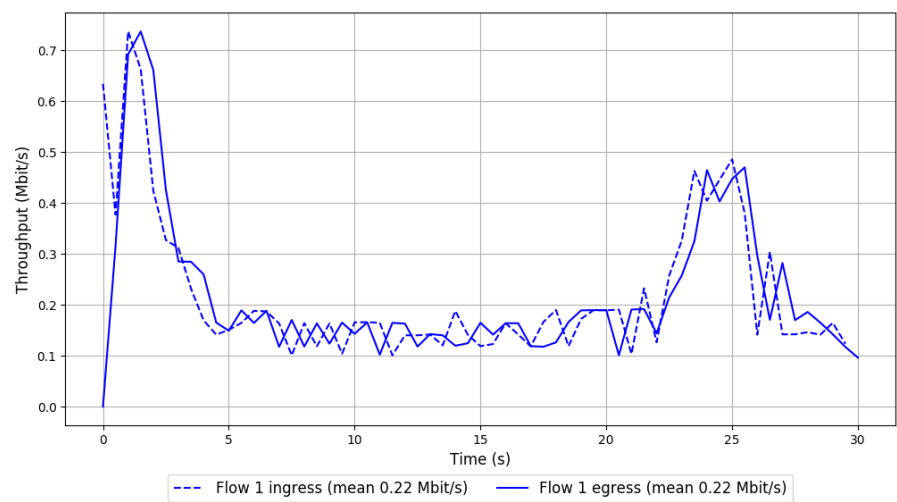
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 112.766 ms

Loss rate: 0.58%

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-30 21:58:51

End at: 2018-05-30 21:59:21

Local clock offset: -0.223 ms

Remote clock offset: 0.346 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 112.043 ms

Loss rate: 1.24%

-- Flow 1:

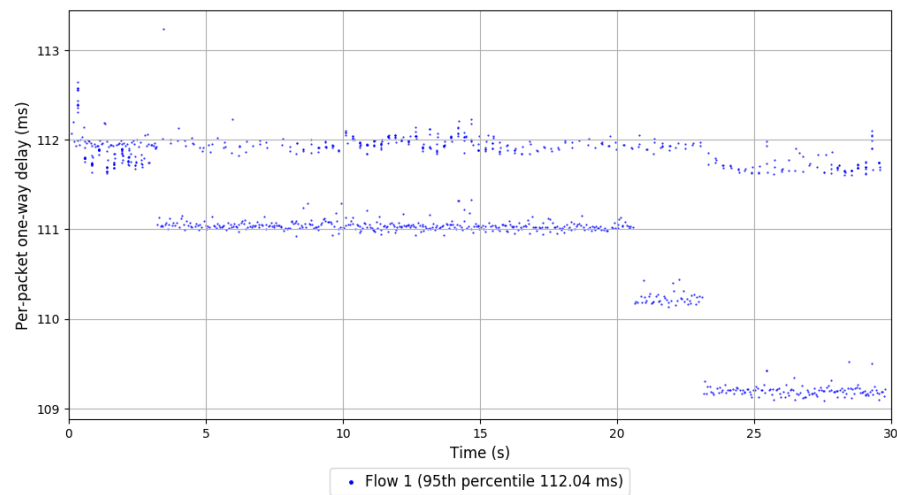
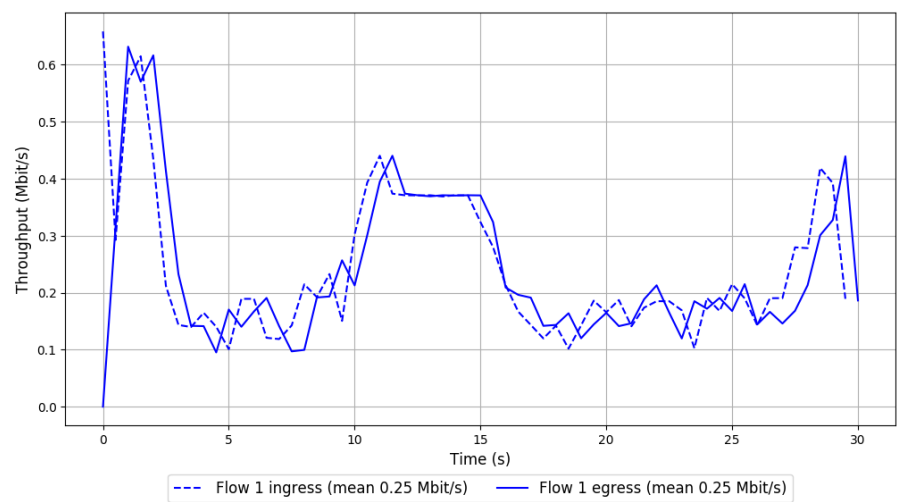
Average throughput: 0.25 Mbit/s

95th percentile per-packet one-way delay: 112.043 ms

Loss rate: 1.24%



Run 9: Report of Sprout — Data Link

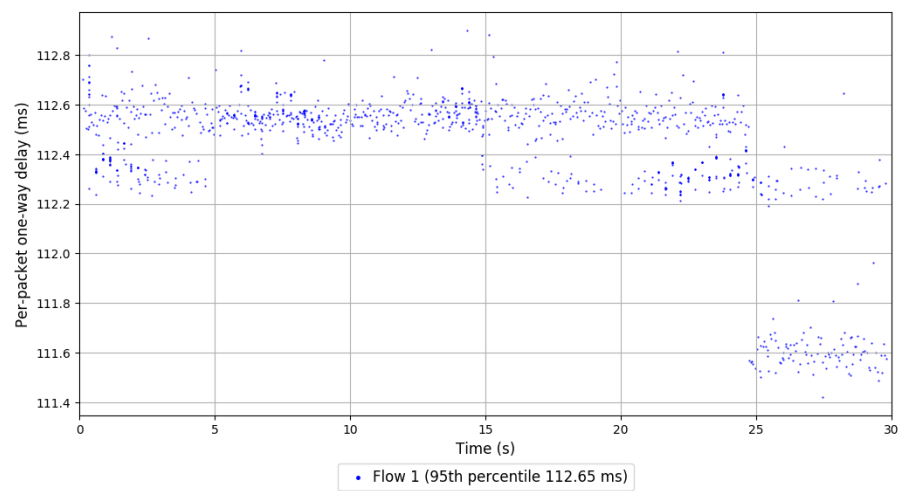
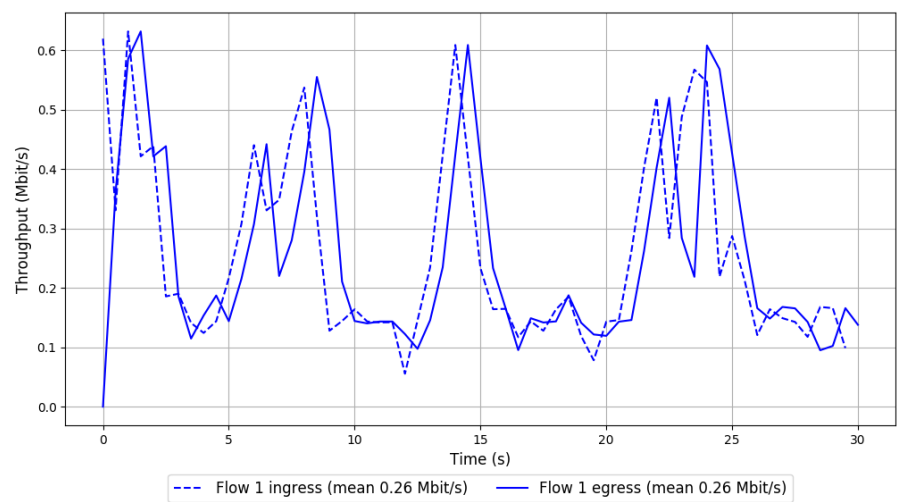


Run 10: Statistics of Sprout

Start at: 2018-05-30 22:19:29  
End at: 2018-05-30 22:19:59  
Local clock offset: -0.019 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-05-30 23:25:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 112.654 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 112.654 ms  
Loss rate: 0.33%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-30 18:54:28

End at: 2018-05-30 18:54:58

Local clock offset: -0.835 ms

Remote clock offset: -0.56 ms

# Below is generated by plot.py at 2018-05-30 23:25:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 160.98 Mbit/s

95th percentile per-packet one-way delay: 112.634 ms

Loss rate: 0.99%

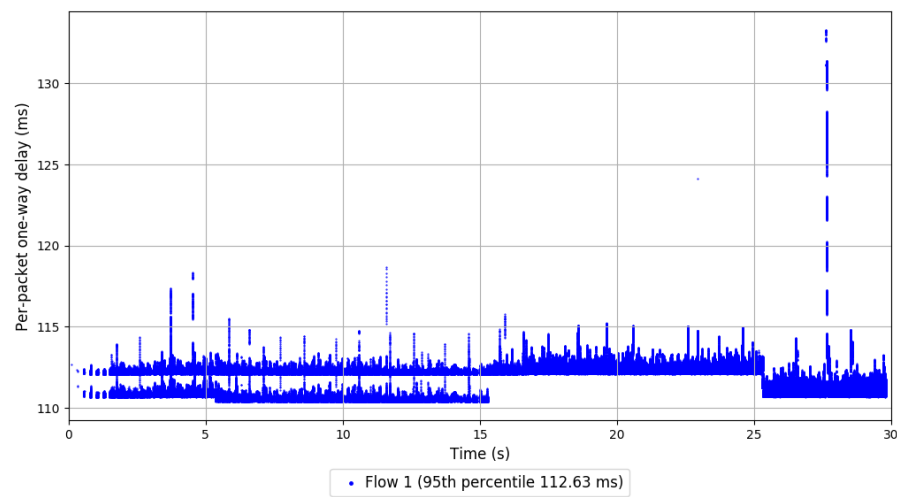
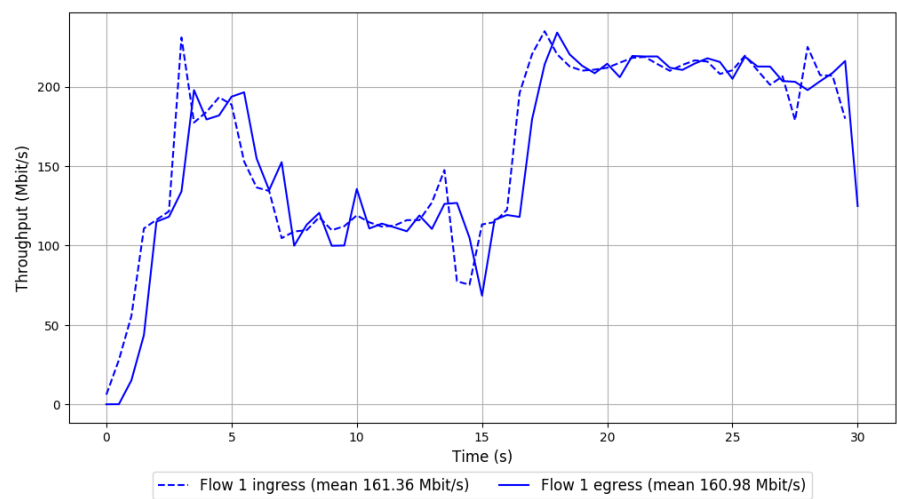
-- Flow 1:

Average throughput: 160.98 Mbit/s

95th percentile per-packet one-way delay: 112.634 ms

Loss rate: 0.99%

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-05-30 19:15:19

End at: 2018-05-30 19:15:49

Local clock offset: -0.536 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-30 23:26:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 197.50 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 0.83%

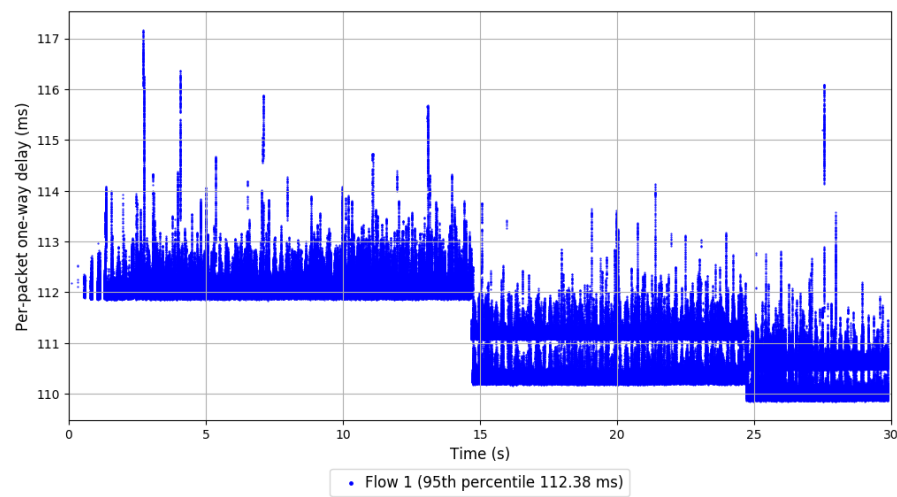
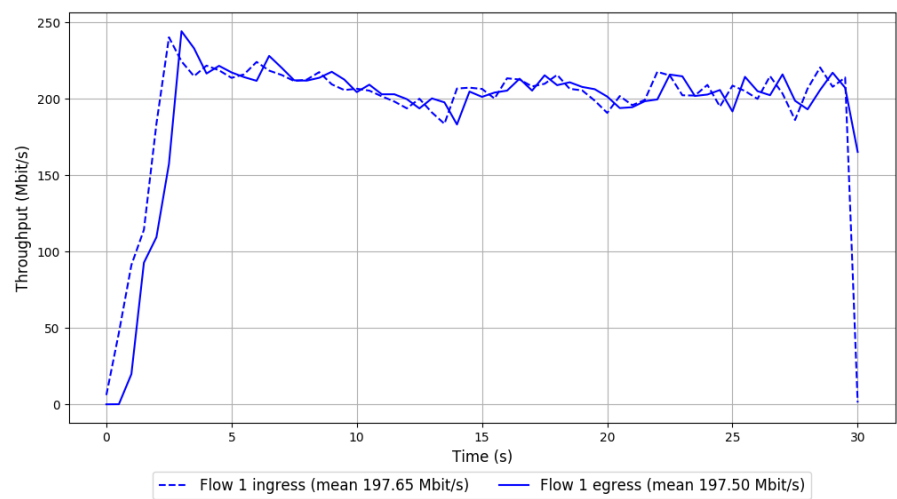
-- Flow 1:

Average throughput: 197.50 Mbit/s

95th percentile per-packet one-way delay: 112.381 ms

Loss rate: 0.83%

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



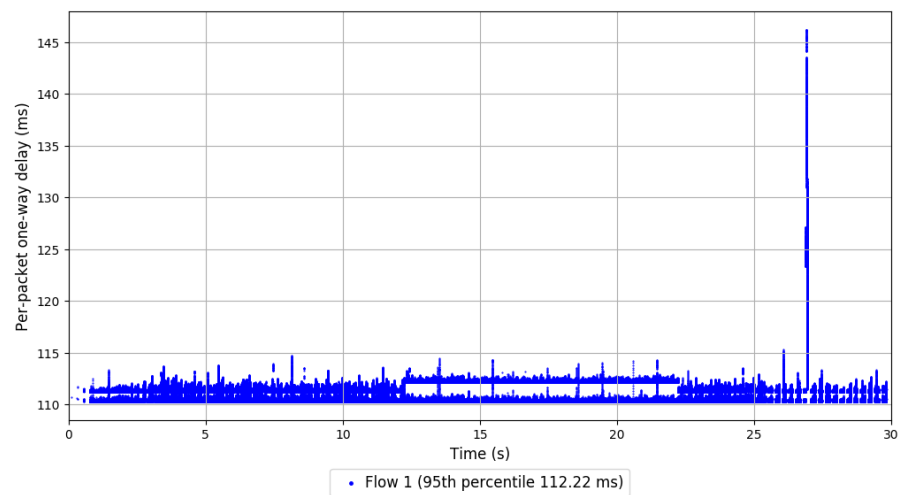
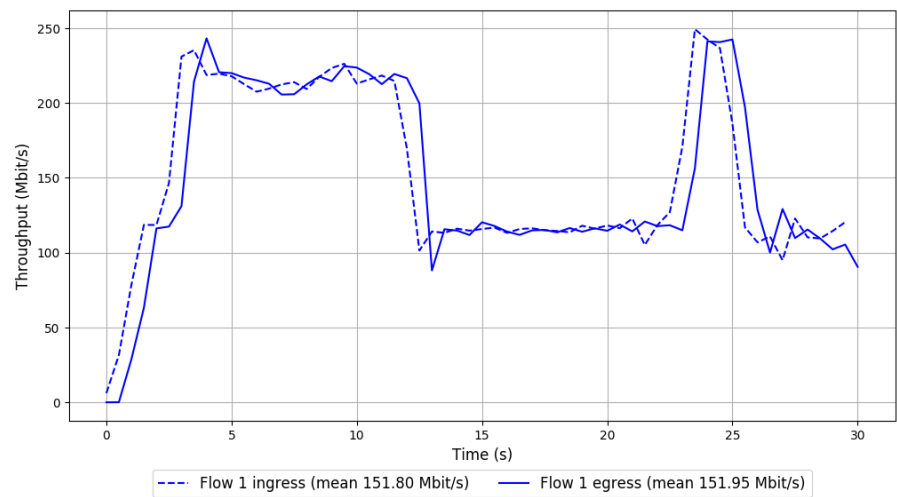
Run 3: Statistics of TaoVA-100x

Start at: 2018-05-30 19:36:11  
End at: 2018-05-30 19:36:41  
Local clock offset: -0.842 ms  
Remote clock offset: -0.623 ms

# Below is generated by plot.py at 2018-05-30 23:26:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 151.95 Mbit/s  
95th percentile per-packet one-way delay: 112.224 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 151.95 Mbit/s  
95th percentile per-packet one-way delay: 112.224 ms  
Loss rate: 0.62%



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

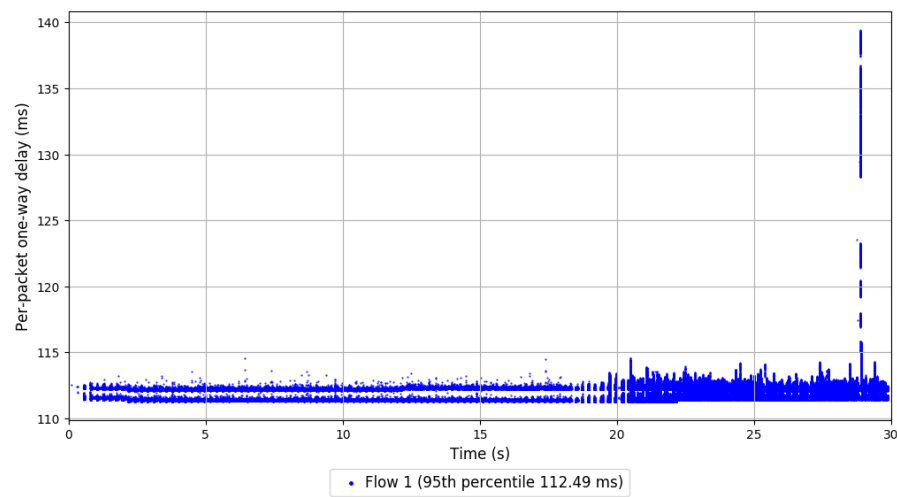
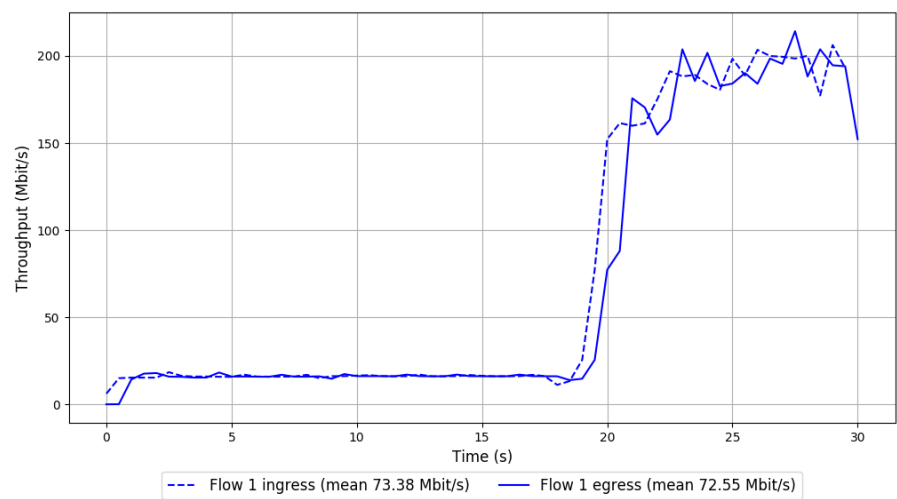


Run 4: Statistics of TaoVA-100x

Start at: 2018-05-30 19:57:12  
End at: 2018-05-30 19:57:42  
Local clock offset: -1.138 ms  
Remote clock offset: -0.968 ms

# Below is generated by plot.py at 2018-05-30 23:26:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 72.55 Mbit/s  
95th percentile per-packet one-way delay: 112.494 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 72.55 Mbit/s  
95th percentile per-packet one-way delay: 112.494 ms  
Loss rate: 1.88%

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

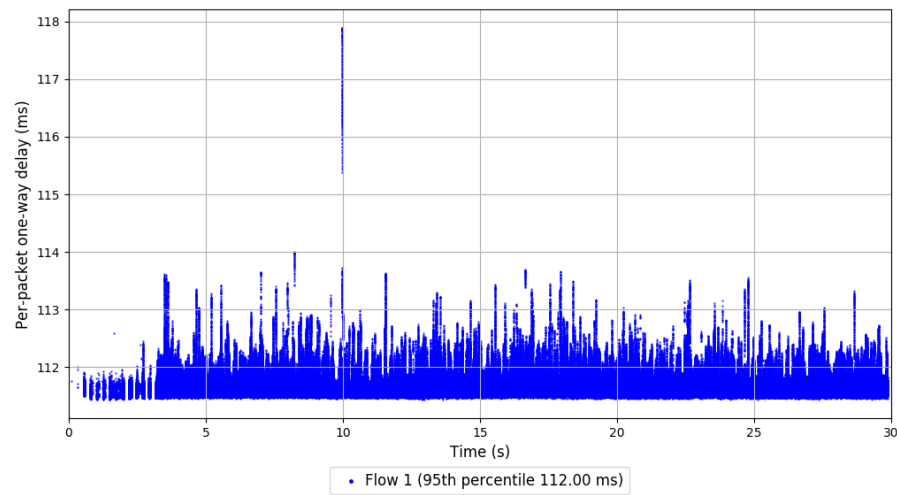
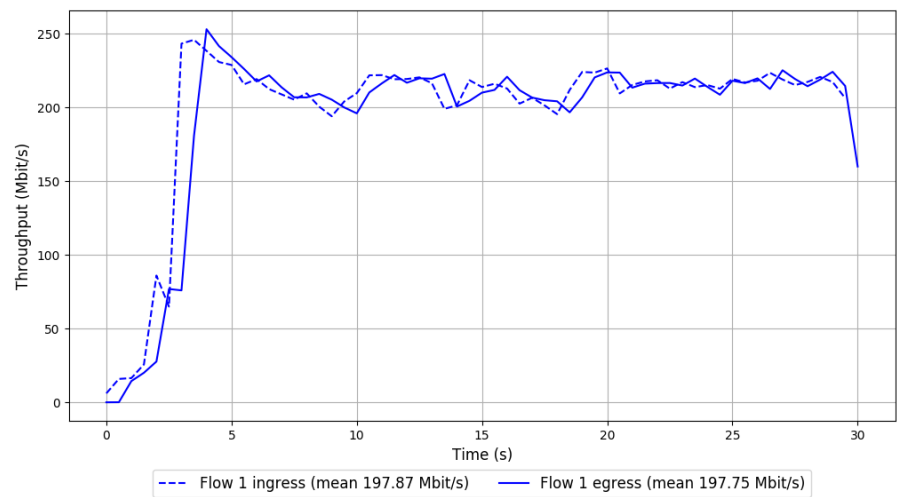


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-30 20:18:01  
End at: 2018-05-30 20:18:31  
Local clock offset: -0.134 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-05-30 23:27:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.75 Mbit/s  
95th percentile per-packet one-way delay: 112.001 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 197.75 Mbit/s  
95th percentile per-packet one-way delay: 112.001 ms  
Loss rate: 0.81%

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

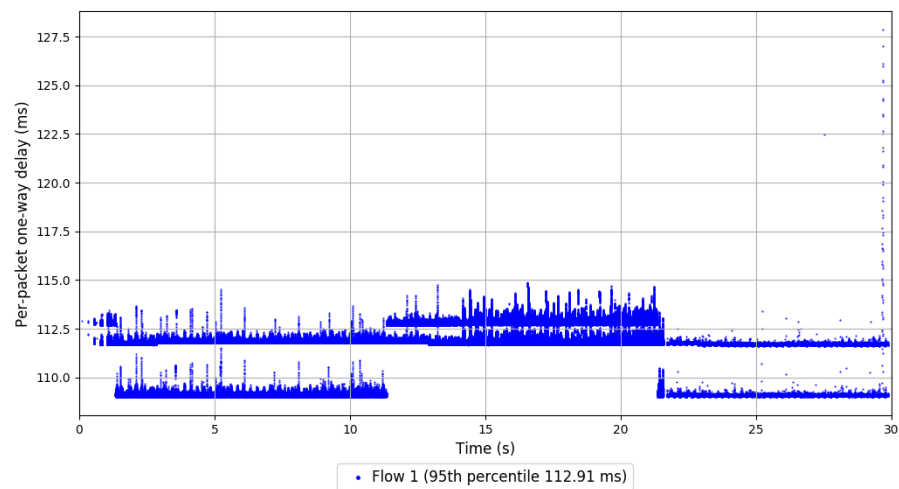
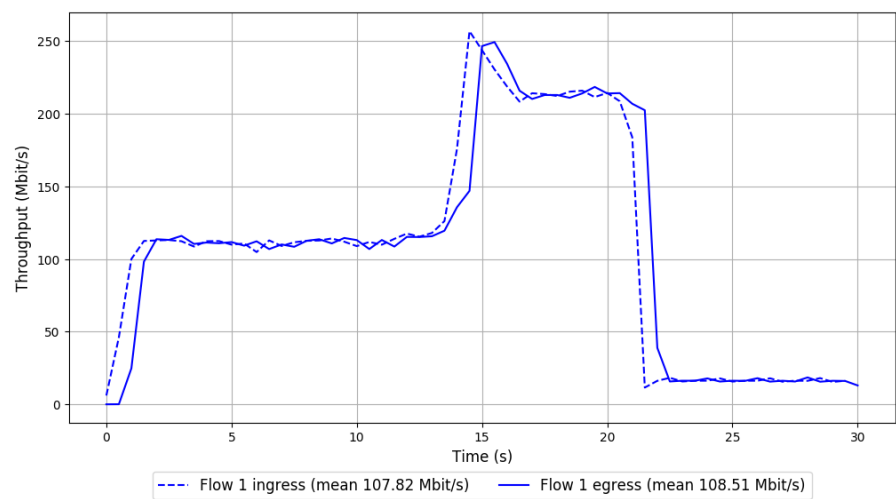


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-30 20:39:11  
End at: 2018-05-30 20:39:41  
Local clock offset: -0.189 ms  
Remote clock offset: -0.274 ms

# Below is generated by plot.py at 2018-05-30 23:27:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 108.51 Mbit/s  
95th percentile per-packet one-way delay: 112.911 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 108.51 Mbit/s  
95th percentile per-packet one-way delay: 112.911 ms  
Loss rate: 0.12%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-30 21:00:06

End at: 2018-05-30 21:00:36

Local clock offset: 0.128 ms

Remote clock offset: 0.176 ms

# Below is generated by plot.py at 2018-05-30 23:27:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 2.06%

-- Flow 1:

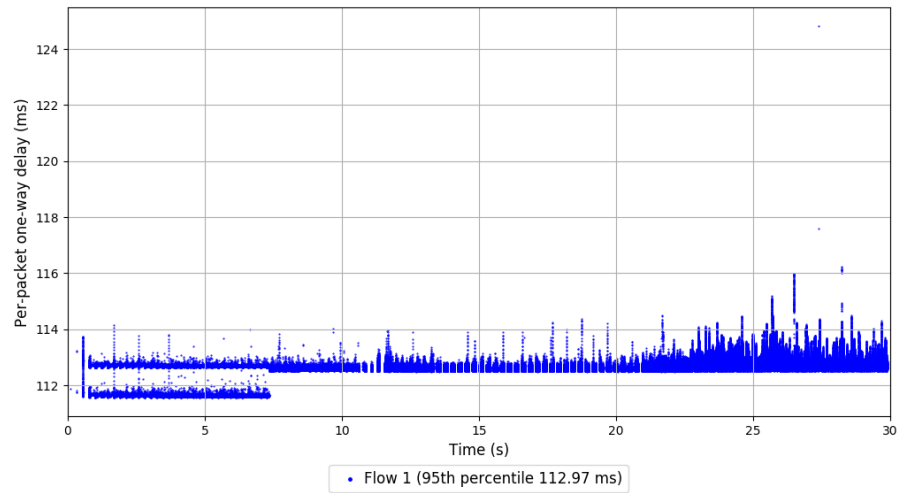
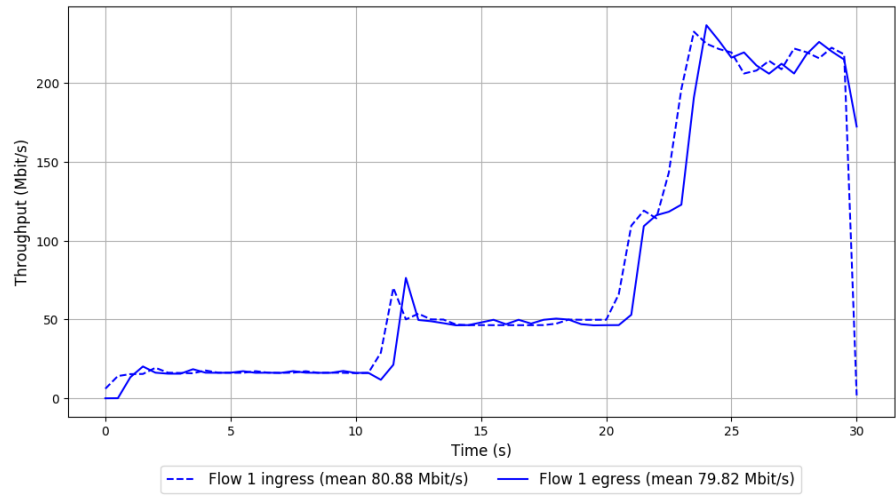
Average throughput: 79.82 Mbit/s

95th percentile per-packet one-way delay: 112.967 ms

Loss rate: 2.06%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-30 21:20:57

End at: 2018-05-30 21:21:27

Local clock offset: -0.073 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2018-05-30 23:30:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.73 Mbit/s

95th percentile per-packet one-way delay: 113.098 ms

Loss rate: 0.73%

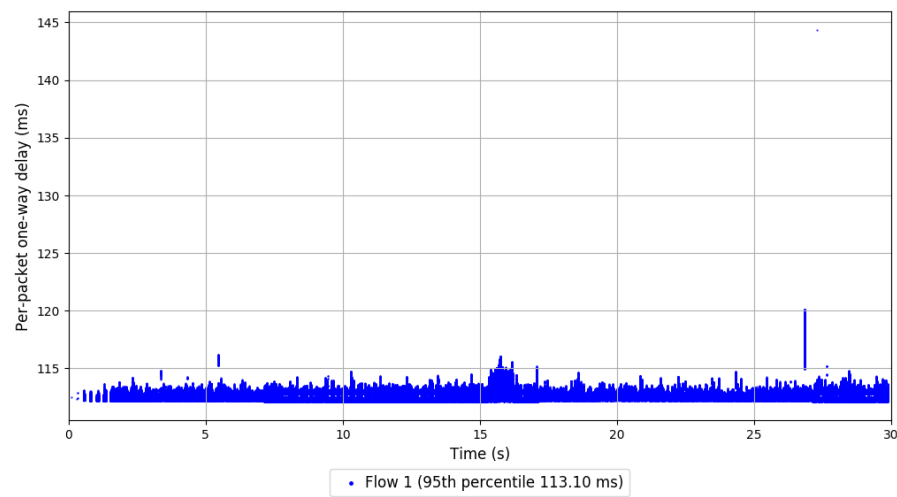
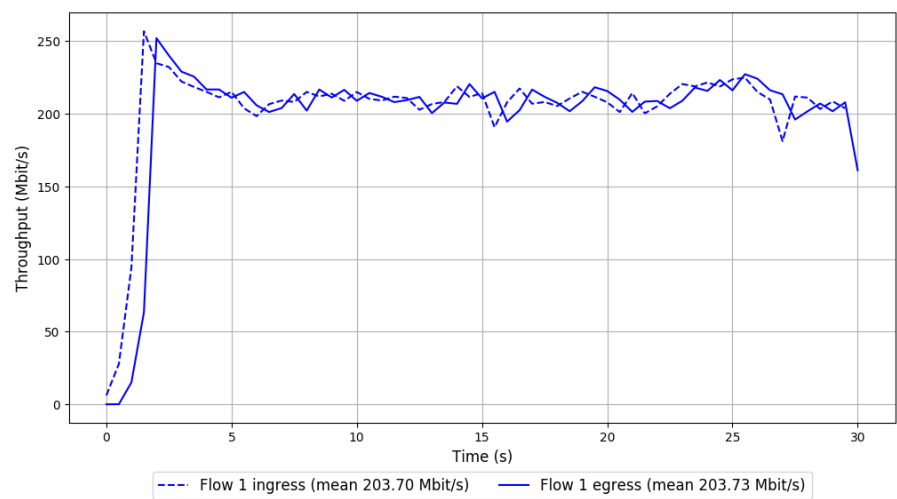
-- Flow 1:

Average throughput: 203.73 Mbit/s

95th percentile per-packet one-way delay: 113.098 ms

Loss rate: 0.73%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-30 21:42:26

End at: 2018-05-30 21:42:56

Local clock offset: -0.078 ms

Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.85 Mbit/s

95th percentile per-packet one-way delay: 112.446 ms

Loss rate: 0.19%

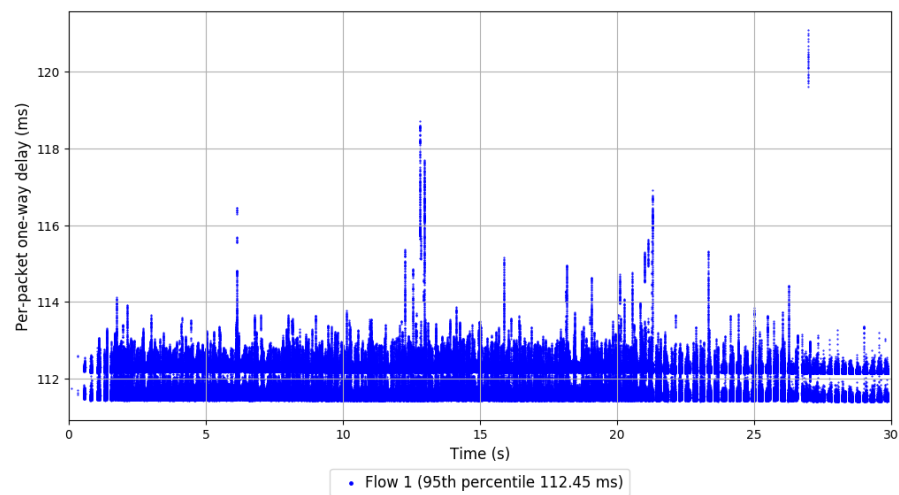
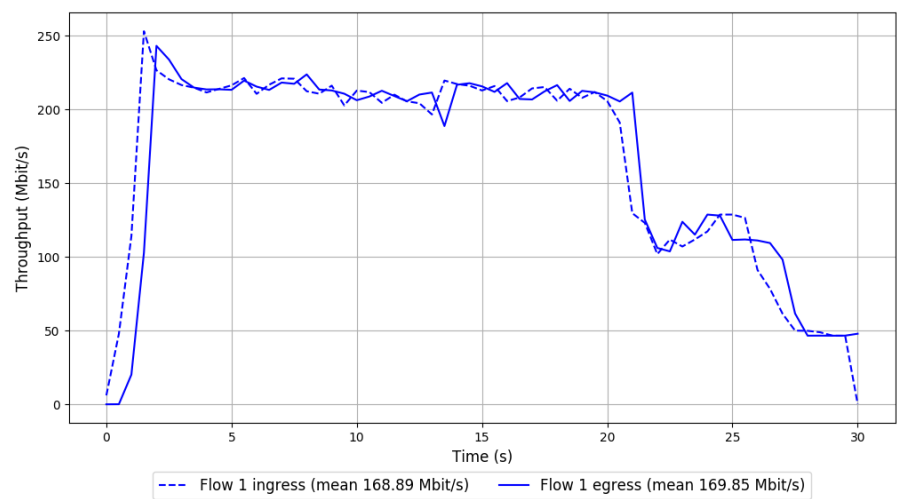
-- Flow 1:

Average throughput: 169.85 Mbit/s

95th percentile per-packet one-way delay: 112.446 ms

Loss rate: 0.19%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-30 22:03:48

End at: 2018-05-30 22:04:18

Local clock offset: -0.076 ms

Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 0.77%

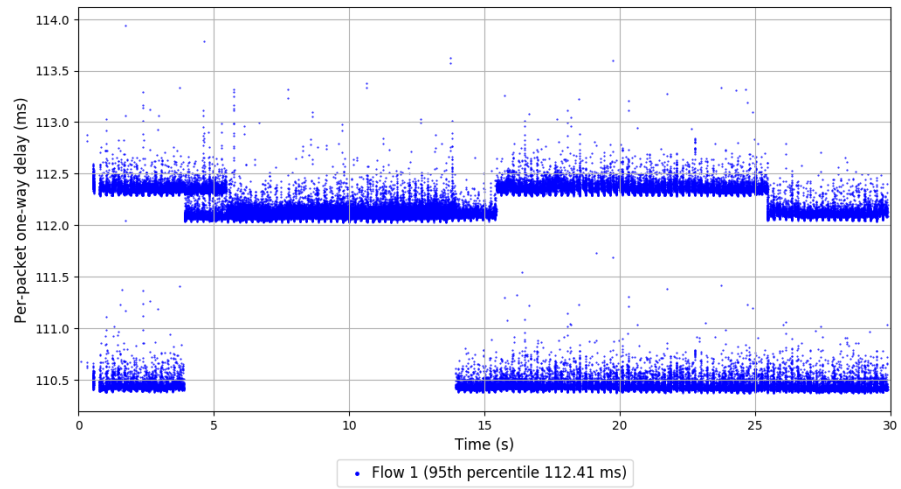
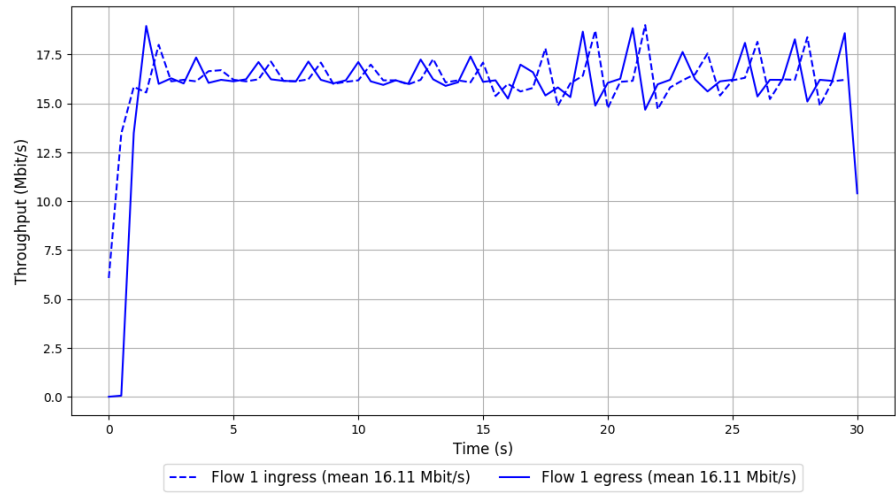
-- Flow 1:

Average throughput: 16.11 Mbit/s

95th percentile per-packet one-way delay: 112.409 ms

Loss rate: 0.77%

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



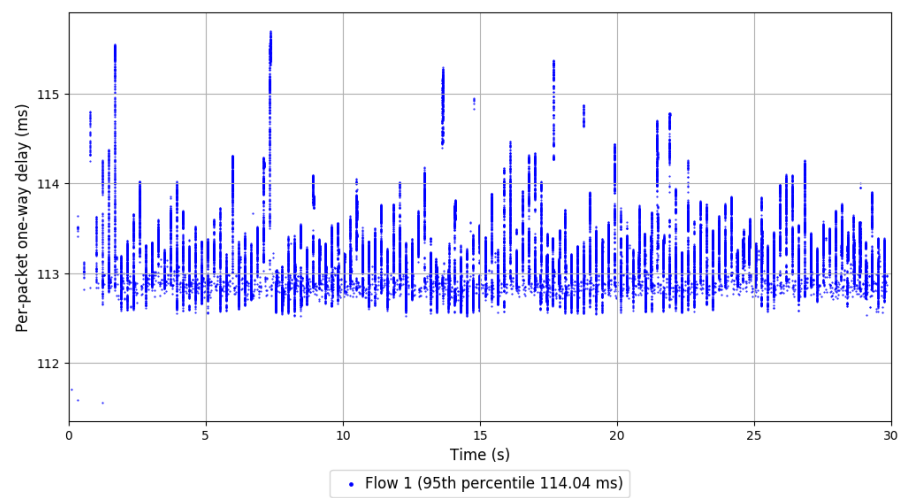
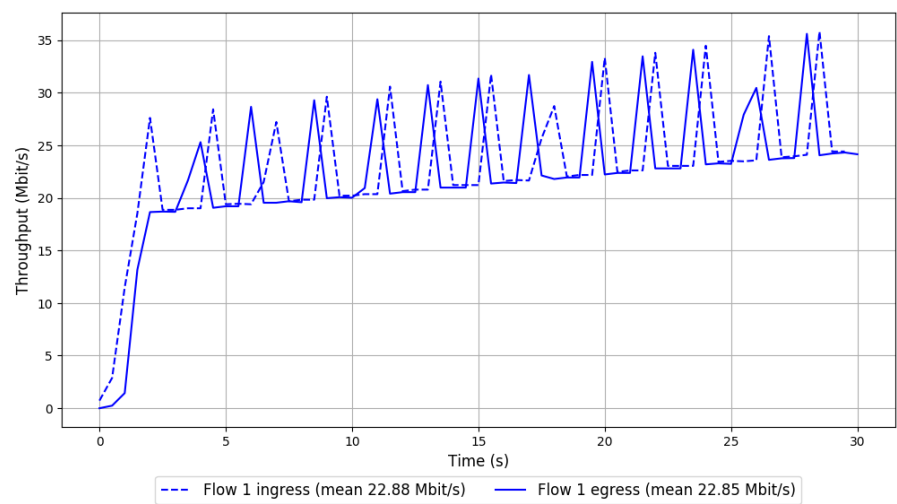
Run 1: Statistics of TCP Vegas

Start at: 2018-05-30 18:59:59  
End at: 2018-05-30 19:00:29  
Local clock offset: -0.51 ms  
Remote clock offset: -0.449 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.85 Mbit/s  
95th percentile per-packet one-way delay: 114.043 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 22.85 Mbit/s  
95th percentile per-packet one-way delay: 114.043 ms  
Loss rate: 0.89%



Run 1: Report of TCP Vegas — Data Link

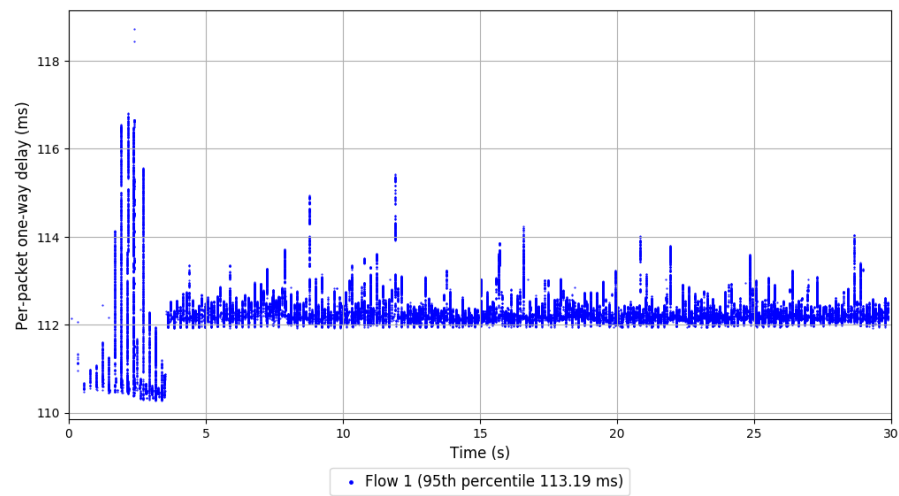
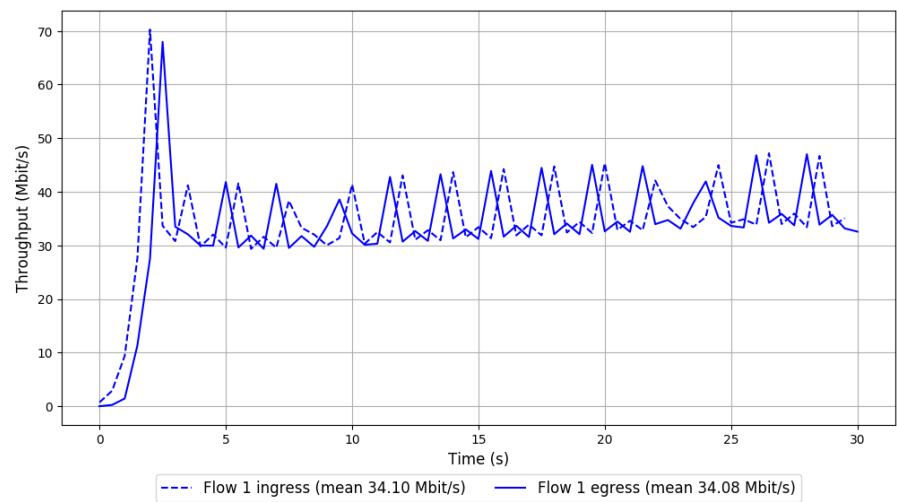


Run 2: Statistics of TCP Vegas

Start at: 2018-05-30 19:20:50  
End at: 2018-05-30 19:21:20  
Local clock offset: -0.551 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 34.08 Mbit/s  
95th percentile per-packet one-way delay: 113.185 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 34.08 Mbit/s  
95th percentile per-packet one-way delay: 113.185 ms  
Loss rate: 0.81%

Run 2: Report of TCP Vegas — Data Link

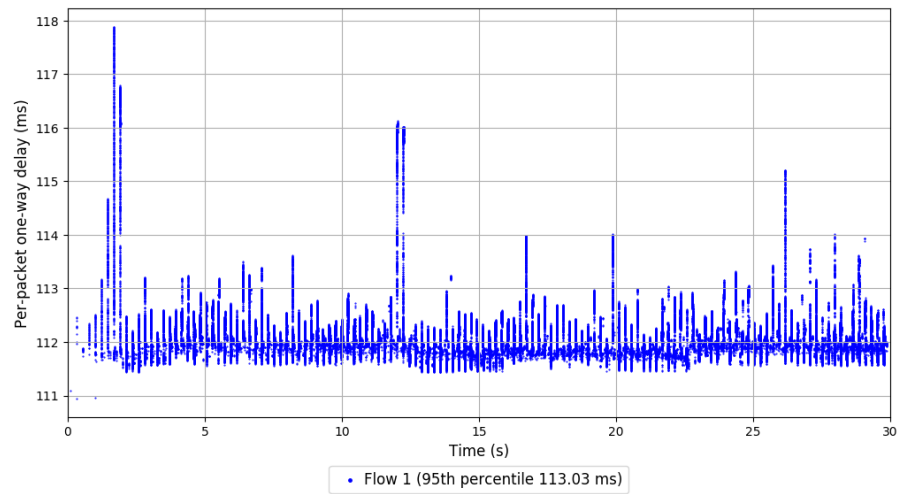
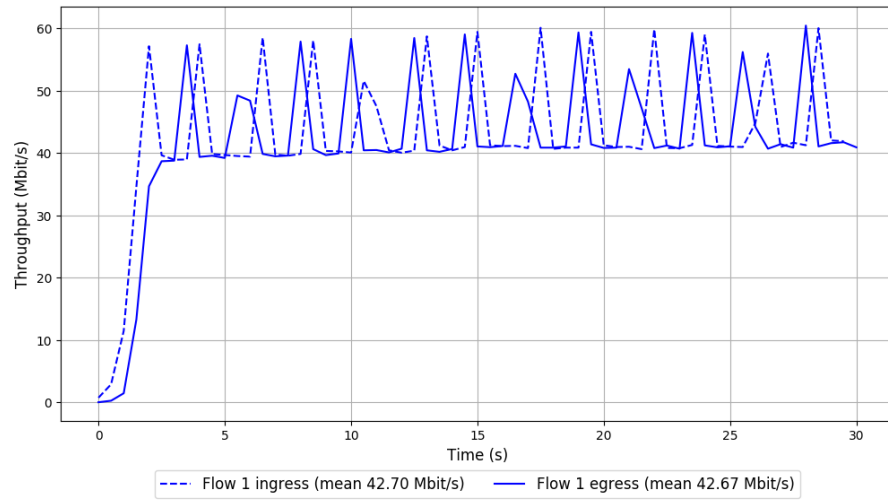


Run 3: Statistics of TCP Vegas

Start at: 2018-05-30 19:41:41  
End at: 2018-05-30 19:42:11  
Local clock offset: -0.731 ms  
Remote clock offset: -0.735 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 42.67 Mbit/s  
95th percentile per-packet one-way delay: 113.026 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 42.67 Mbit/s  
95th percentile per-packet one-way delay: 113.026 ms  
Loss rate: 0.81%

### Run 3: Report of TCP Vegas — Data Link

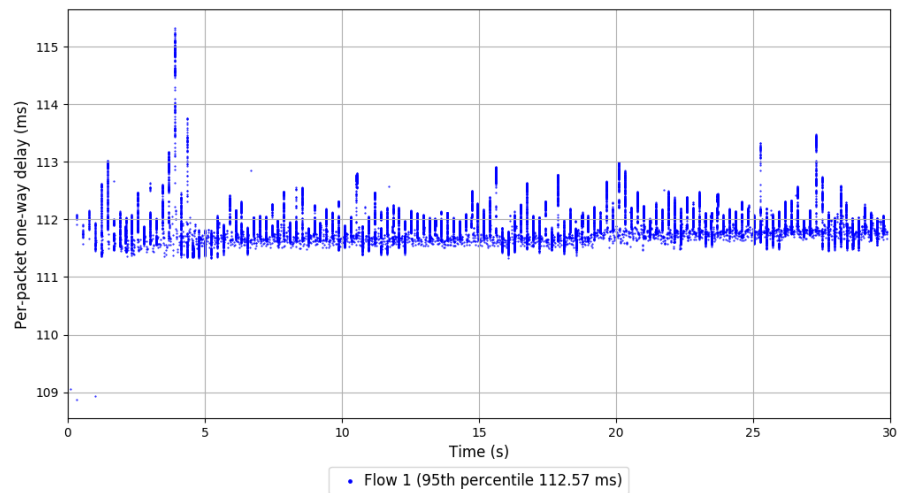
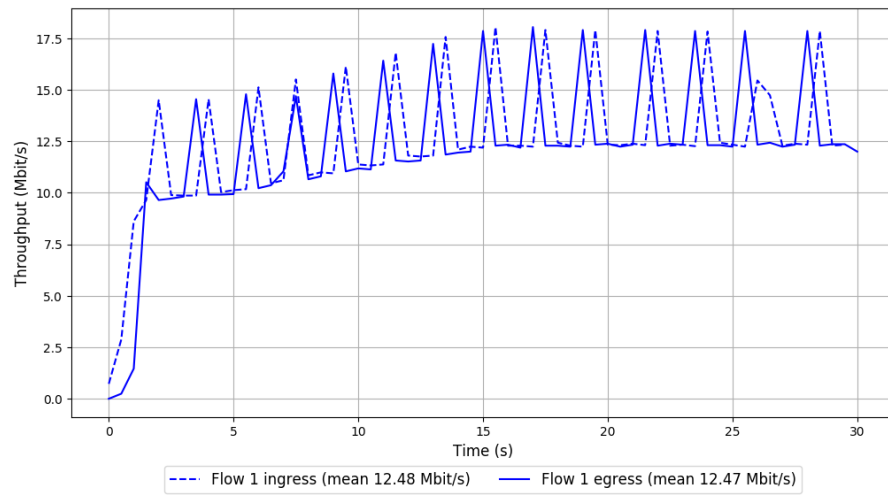


Run 4: Statistics of TCP Vegas

Start at: 2018-05-30 20:02:35  
End at: 2018-05-30 20:03:05  
Local clock offset: -0.68 ms  
Remote clock offset: -0.525 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.47 Mbit/s  
95th percentile per-packet one-way delay: 112.574 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 12.47 Mbit/s  
95th percentile per-packet one-way delay: 112.574 ms  
Loss rate: 0.81%

#### Run 4: Report of TCP Vegas — Data Link



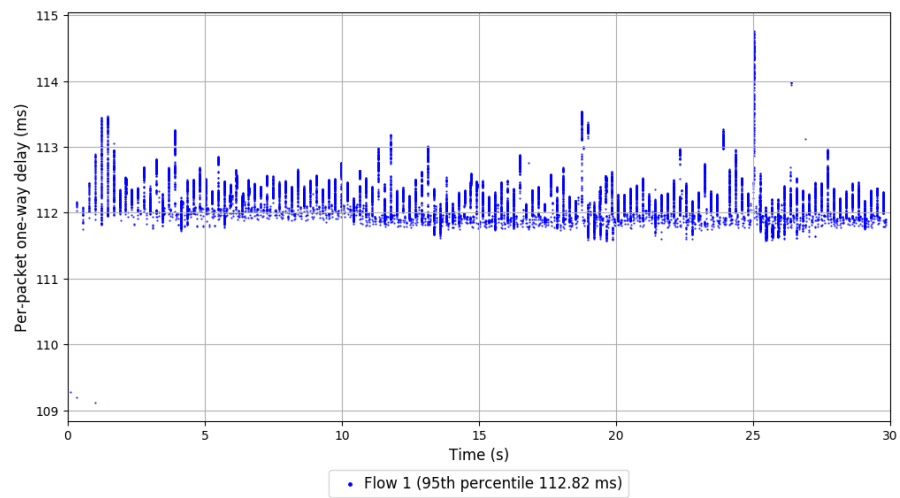
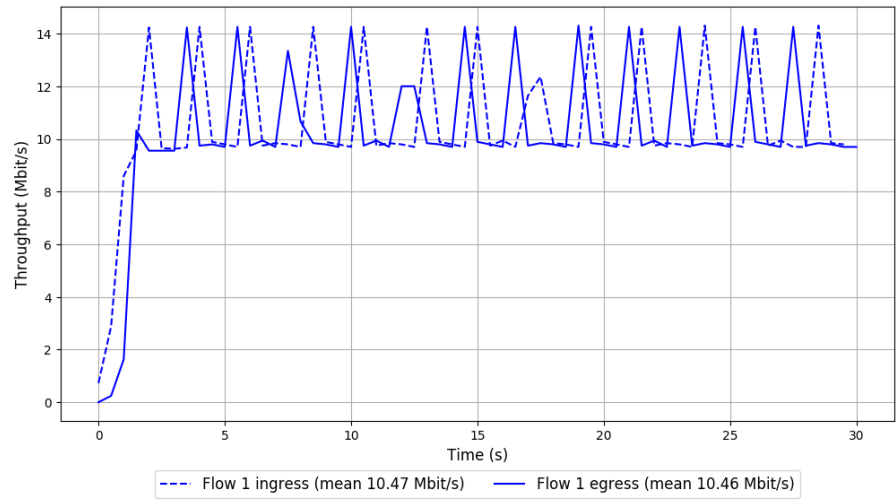
Run 5: Statistics of TCP Vegas

Start at: 2018-05-30 20:23:33  
End at: 2018-05-30 20:24:03  
Local clock offset: 0.054 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 10.46 Mbit/s  
95th percentile per-packet one-way delay: 112.820 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 10.46 Mbit/s  
95th percentile per-packet one-way delay: 112.820 ms  
Loss rate: 0.77%



### Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-30 20:44:37

End at: 2018-05-30 20:45:07

Local clock offset: -0.198 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 115.429 ms

Loss rate: 0.71%

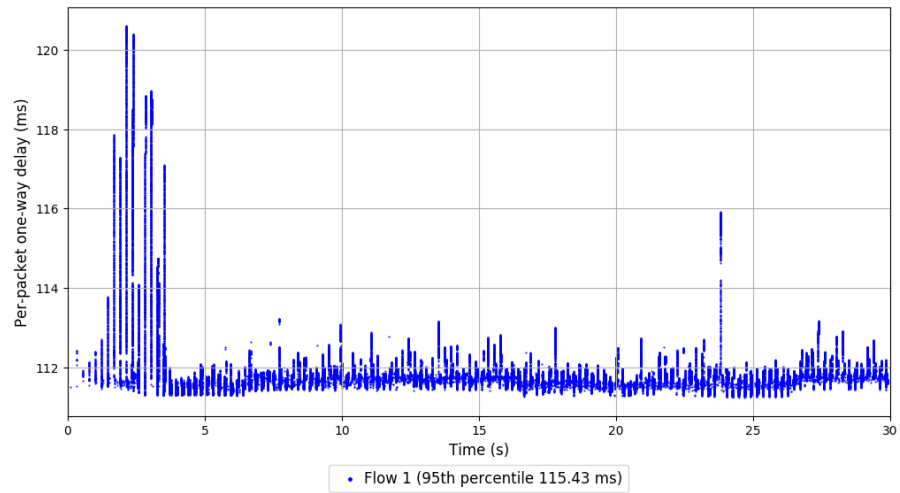
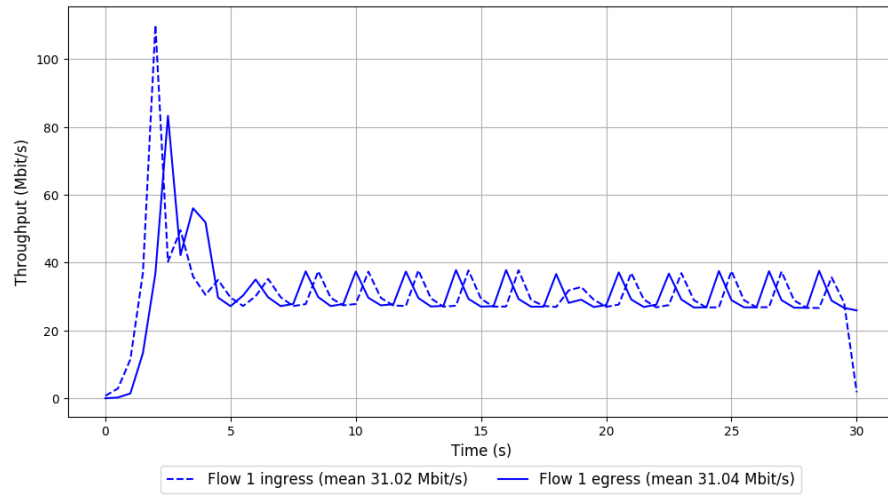
-- Flow 1:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 115.429 ms

Loss rate: 0.71%

## Run 6: Report of TCP Vegas — Data Link



Run 7: Statistics of TCP Vegas

Start at: 2018-05-30 21:05:32

End at: 2018-05-30 21:06:02

Local clock offset: -0.046 ms

Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 113.513 ms

Loss rate: 0.79%

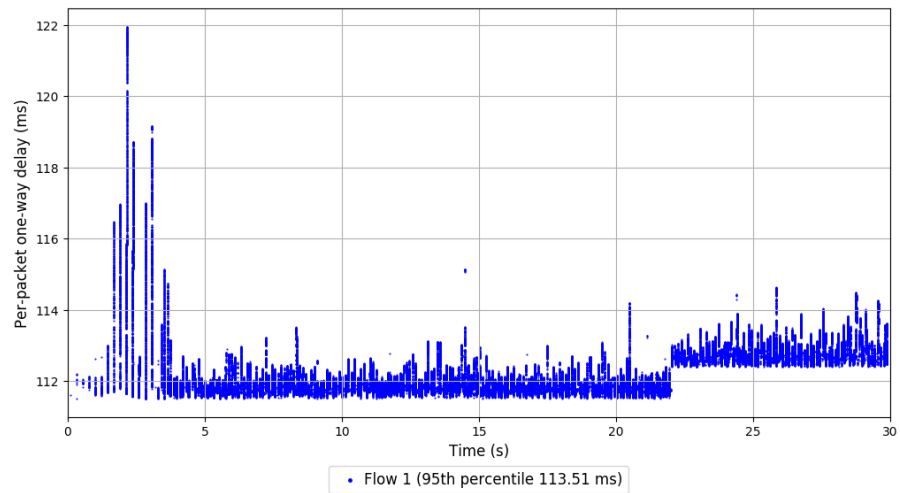
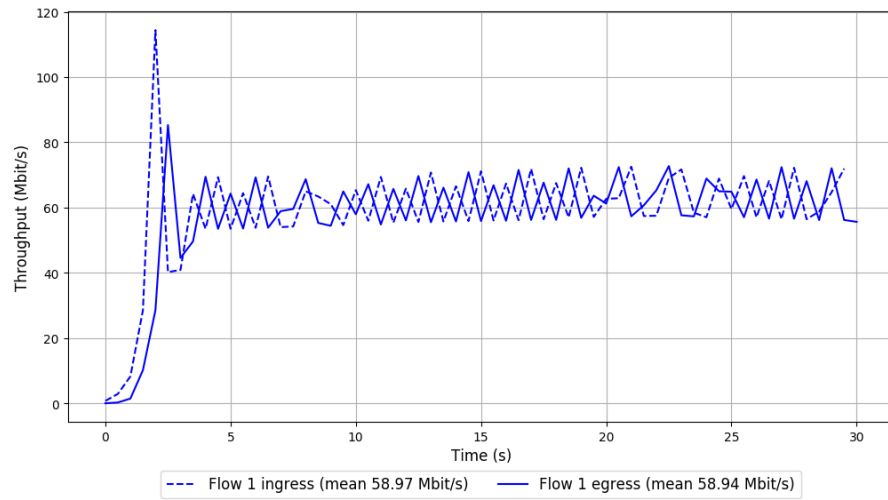
-- Flow 1:

Average throughput: 58.94 Mbit/s

95th percentile per-packet one-way delay: 113.513 ms

Loss rate: 0.79%

### Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-30 21:26:33

End at: 2018-05-30 21:27:03

Local clock offset: -0.118 ms

Remote clock offset: 0.374 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 113.561 ms

Loss rate: 0.78%

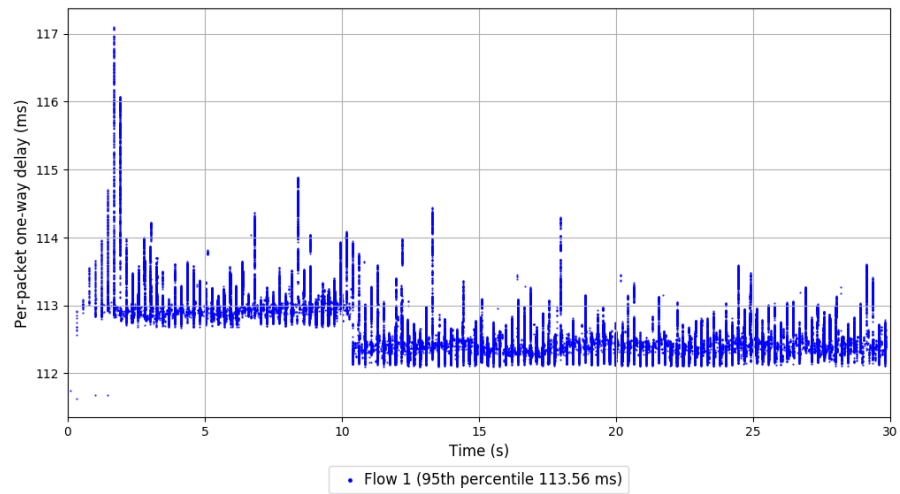
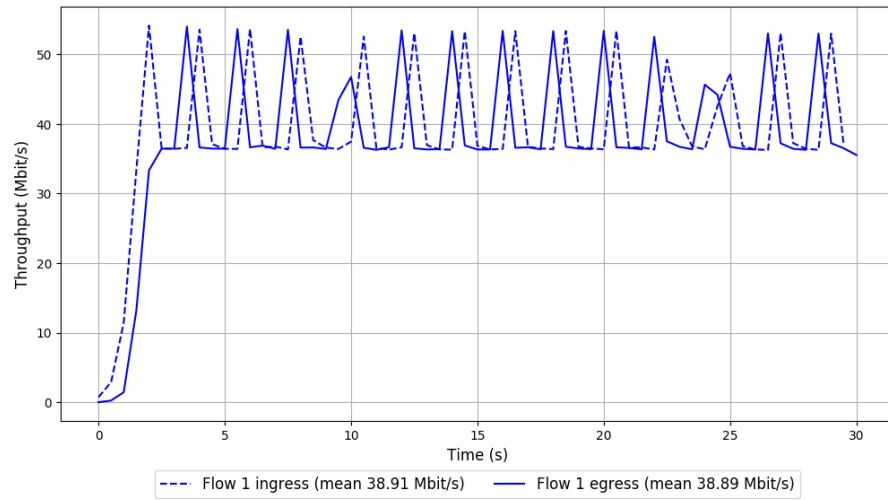
-- Flow 1:

Average throughput: 38.89 Mbit/s

95th percentile per-packet one-way delay: 113.561 ms

Loss rate: 0.78%

### Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-30 21:48:13

End at: 2018-05-30 21:48:43

Local clock offset: -0.074 ms

Remote clock offset: 0.128 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 114.173 ms

Loss rate: 0.61%

-- Flow 1:

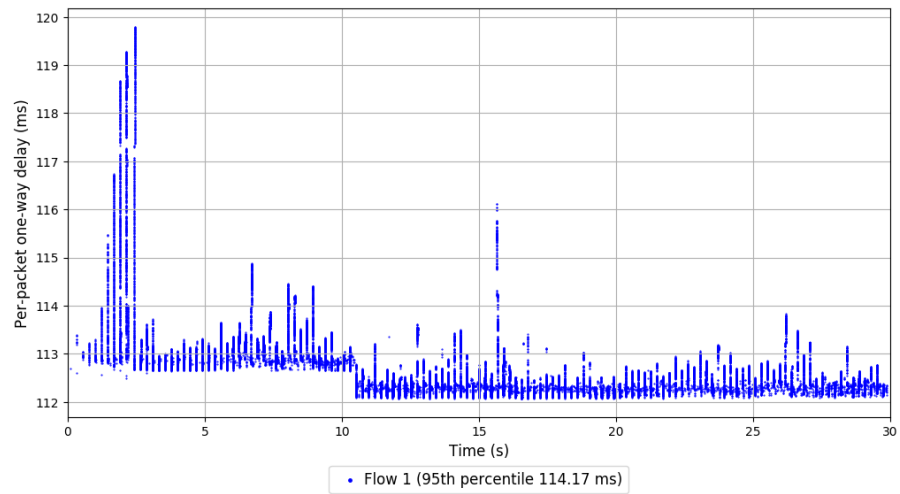
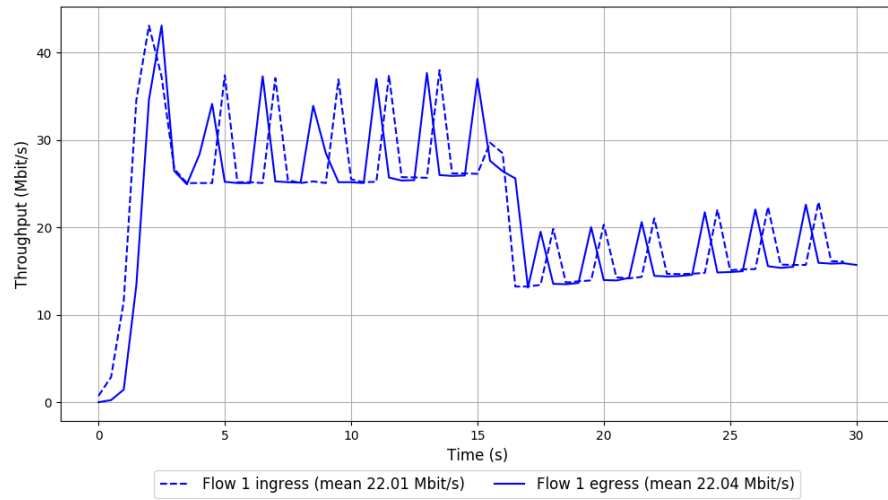
Average throughput: 22.04 Mbit/s

95th percentile per-packet one-way delay: 114.173 ms

Loss rate: 0.61%



### Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-30 22:09:07

End at: 2018-05-30 22:09:37

Local clock offset: 0.188 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 113.567 ms

Loss rate: 0.75%

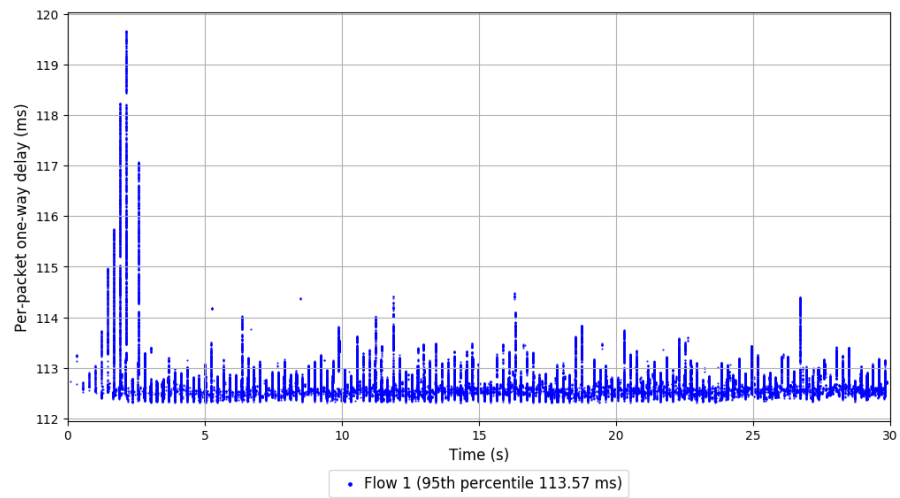
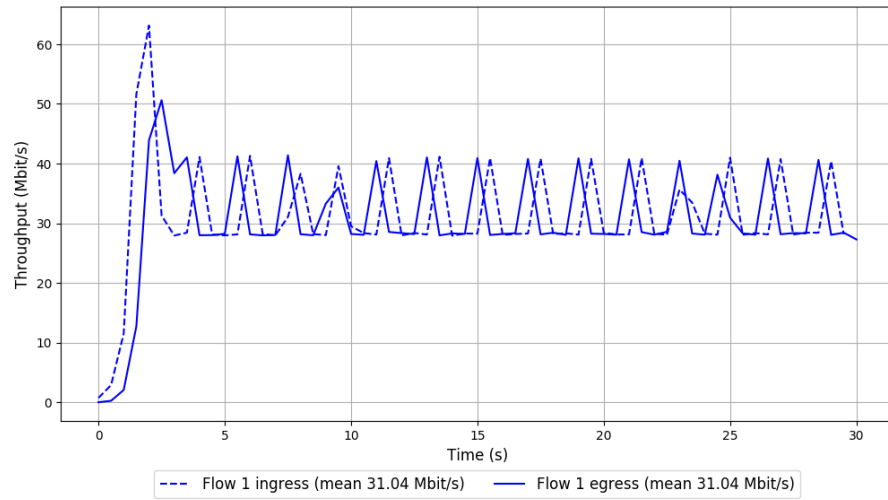
-- Flow 1:

Average throughput: 31.04 Mbit/s

95th percentile per-packet one-way delay: 113.567 ms

Loss rate: 0.75%

# Run 10: Report of TCP Vegas — Data Link

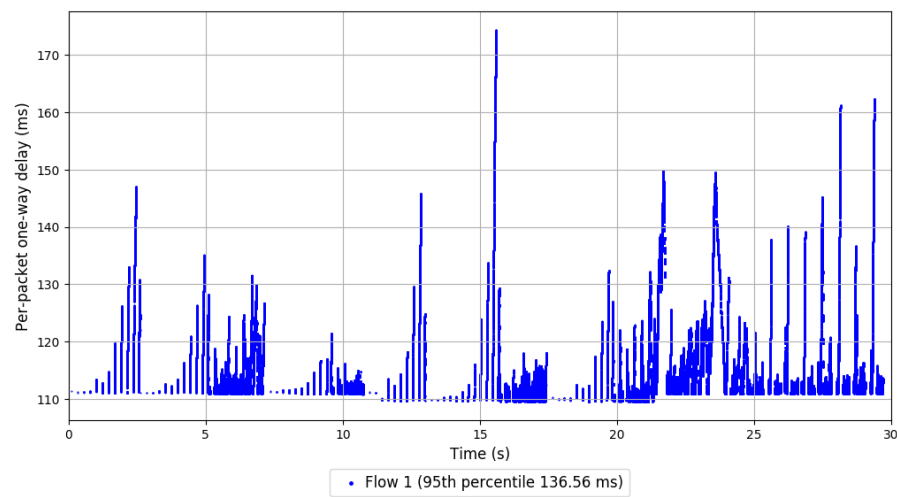
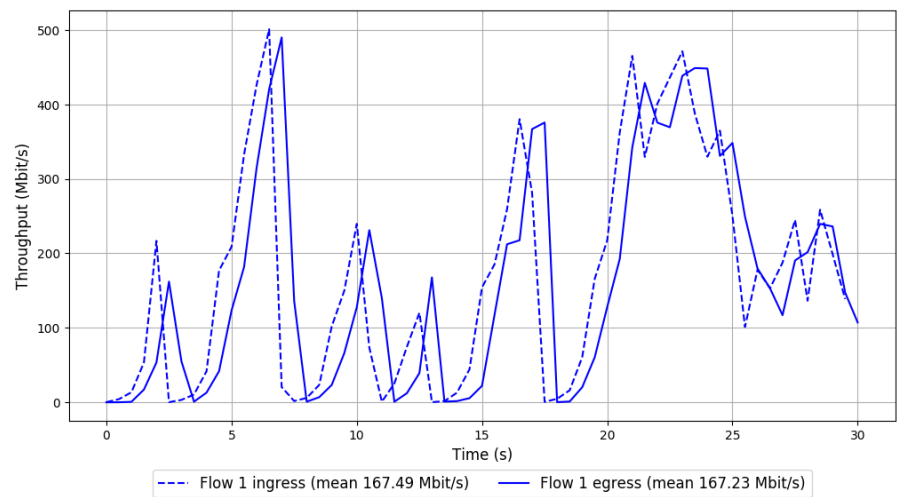


Run 1: Statistics of Verus

Start at: 2018-05-30 18:50:42  
End at: 2018-05-30 18:51:12  
Local clock offset: -0.874 ms  
Remote clock offset: -0.793 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 167.23 Mbit/s  
95th percentile per-packet one-way delay: 136.563 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 167.23 Mbit/s  
95th percentile per-packet one-way delay: 136.563 ms  
Loss rate: 1.05%

Run 1: Report of Verus — Data Link

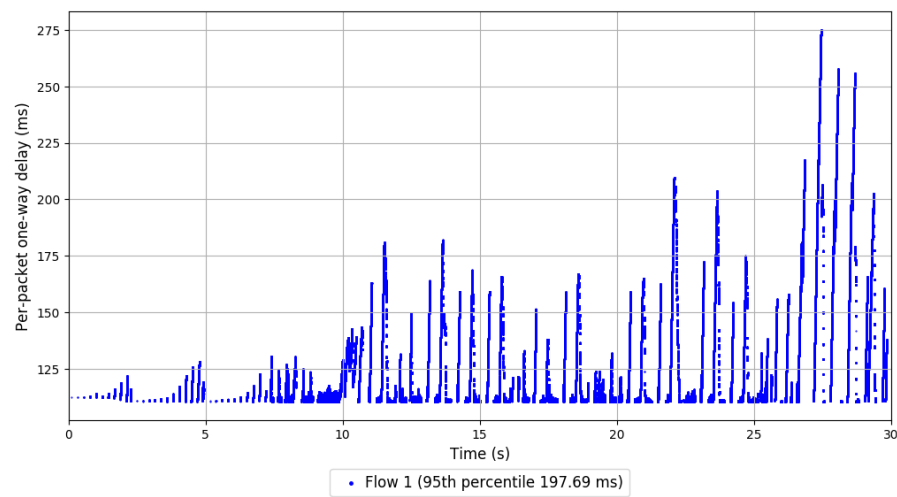
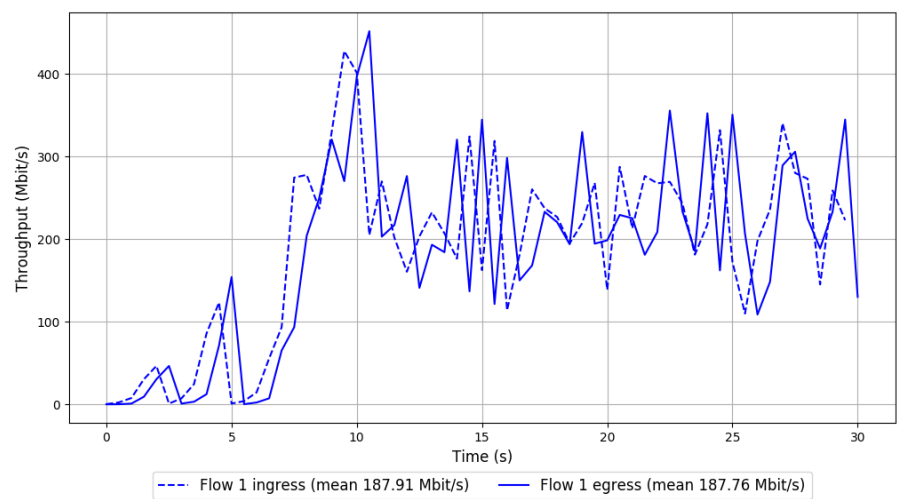


Run 2: Statistics of Verus

Start at: 2018-05-30 19:11:32  
End at: 2018-05-30 19:12:02  
Local clock offset: -0.58 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 187.76 Mbit/s  
95th percentile per-packet one-way delay: 197.692 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 187.76 Mbit/s  
95th percentile per-packet one-way delay: 197.692 ms  
Loss rate: 0.82%

Run 2: Report of Verus — Data Link



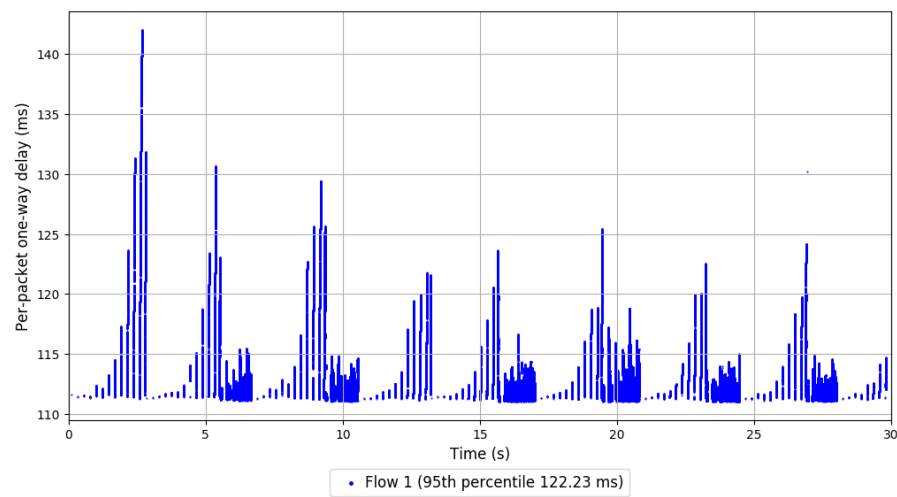
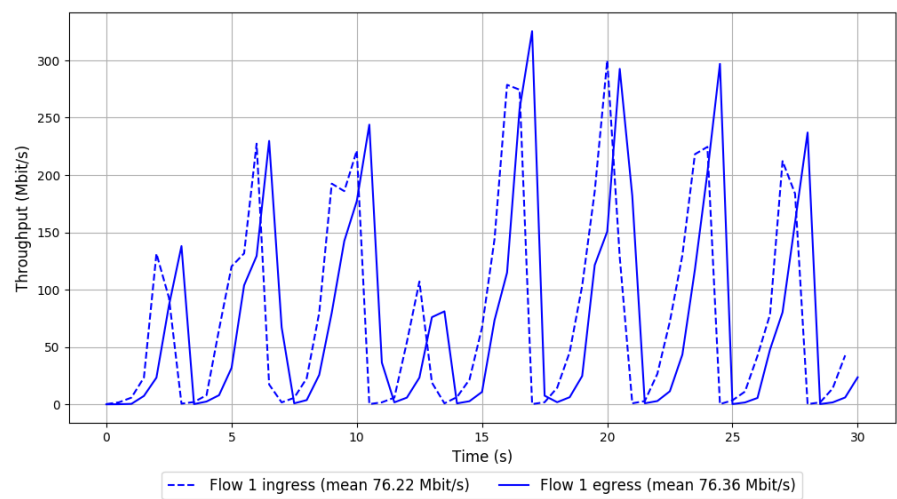
Run 3: Statistics of Verus

Start at: 2018-05-30 19:32:28  
End at: 2018-05-30 19:32:58  
Local clock offset: -0.685 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.36 Mbit/s  
95th percentile per-packet one-way delay: 122.229 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 76.36 Mbit/s  
95th percentile per-packet one-way delay: 122.229 ms  
Loss rate: 0.59%



Run 3: Report of Verus — Data Link

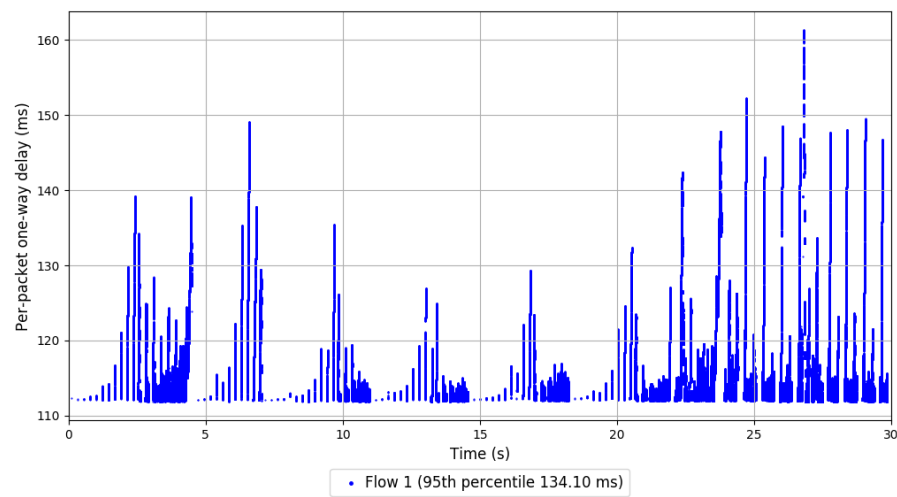
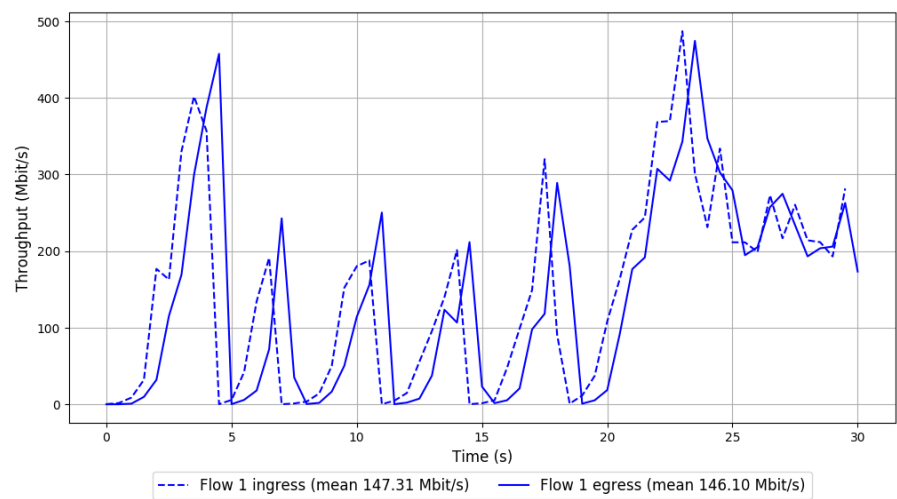


Run 4: Statistics of Verus

Start at: 2018-05-30 19:53:28  
End at: 2018-05-30 19:53:58  
Local clock offset: -0.95 ms  
Remote clock offset: -1.277 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 146.10 Mbit/s  
95th percentile per-packet one-way delay: 134.098 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 146.10 Mbit/s  
95th percentile per-packet one-way delay: 134.098 ms  
Loss rate: 1.39%

Run 4: Report of Verus — Data Link

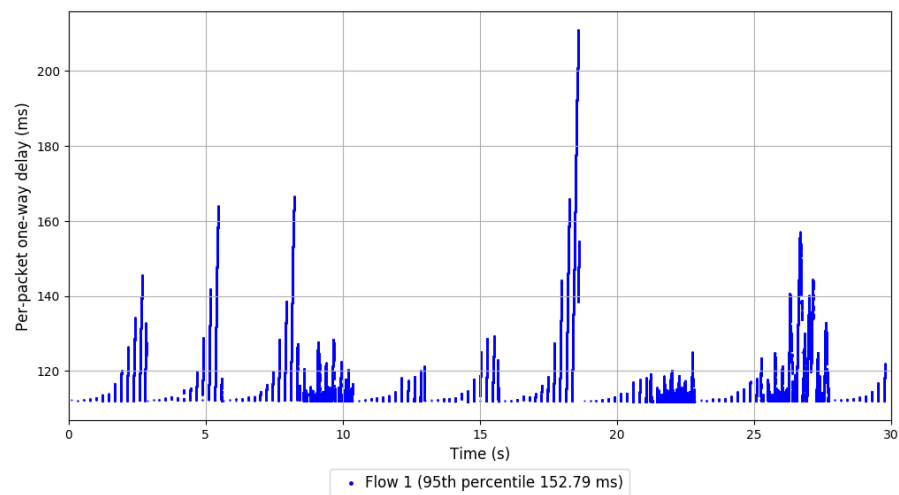
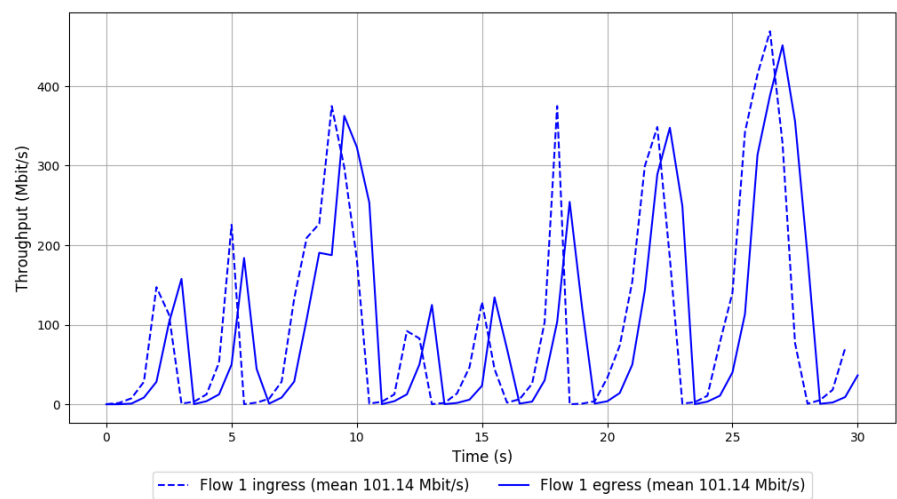


Run 5: Statistics of Verus

Start at: 2018-05-30 20:14:21  
End at: 2018-05-30 20:14:51  
Local clock offset: -0.192 ms  
Remote clock offset: -0.511 ms

# Below is generated by plot.py at 2018-05-30 23:30:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 101.14 Mbit/s  
95th percentile per-packet one-way delay: 152.794 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 101.14 Mbit/s  
95th percentile per-packet one-way delay: 152.794 ms  
Loss rate: 0.76%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-30 20:35:27

End at: 2018-05-30 20:35:57

Local clock offset: -0.092 ms

Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2018-05-30 23:30:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 144.49 Mbit/s

95th percentile per-packet one-way delay: 144.365 ms

Loss rate: 0.01%

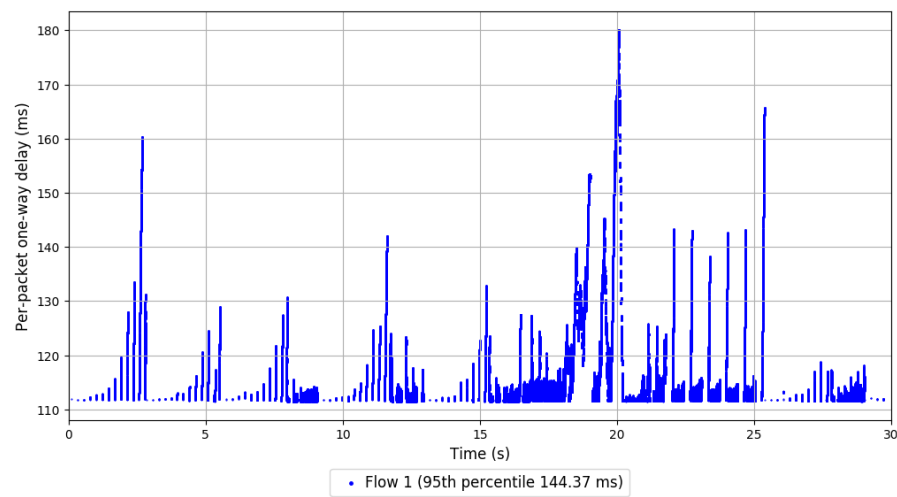
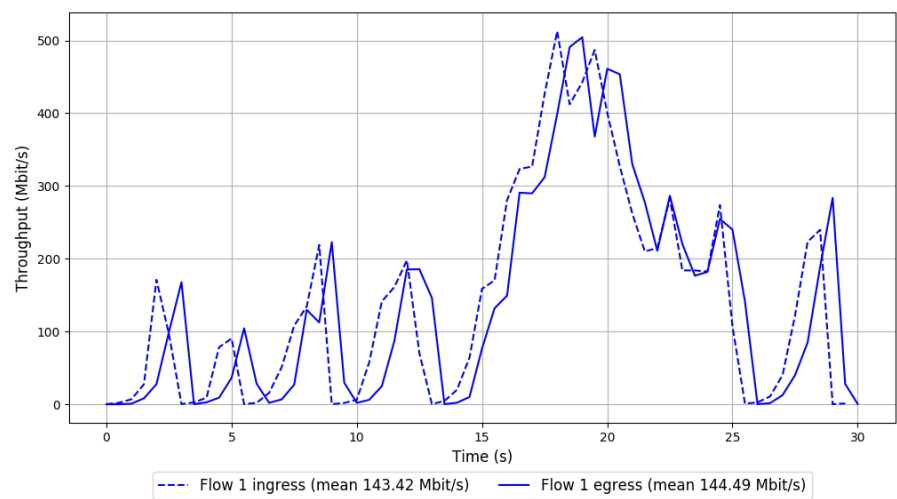
-- Flow 1:

Average throughput: 144.49 Mbit/s

95th percentile per-packet one-way delay: 144.365 ms

Loss rate: 0.01%

Run 6: Report of Verus — Data Link



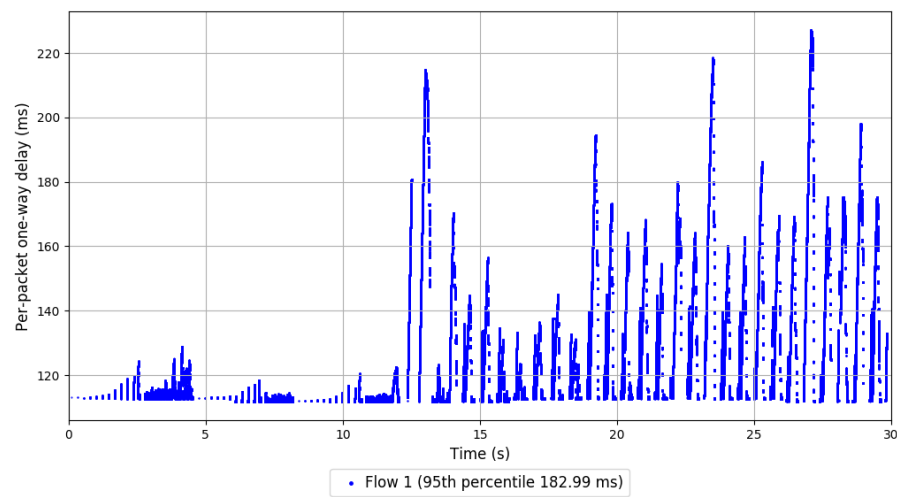
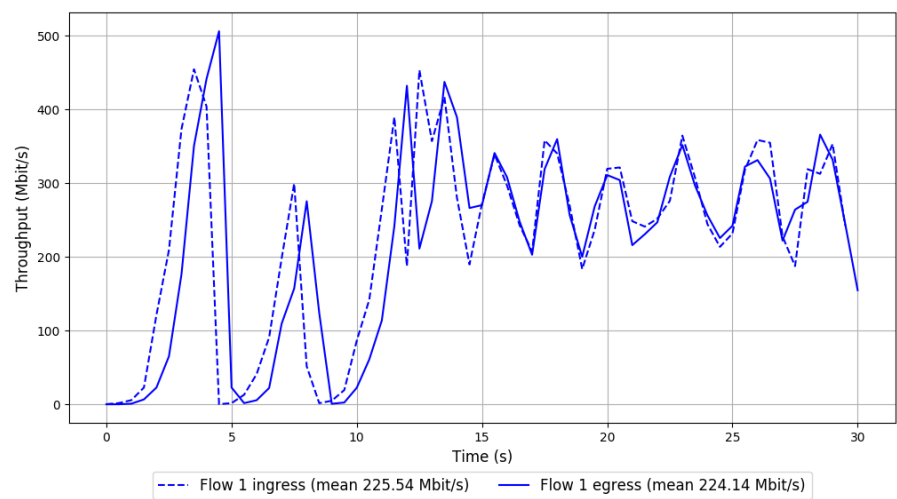
Run 7: Statistics of Verus

Start at: 2018-05-30 20:56:18  
End at: 2018-05-30 20:56:48  
Local clock offset: -0.142 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-05-30 23:32:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 224.14 Mbit/s  
95th percentile per-packet one-way delay: 182.993 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 224.14 Mbit/s  
95th percentile per-packet one-way delay: 182.993 ms  
Loss rate: 1.45%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-30 21:17:05

End at: 2018-05-30 21:17:35

Local clock offset: -0.312 ms

Remote clock offset: 0.309 ms

# Below is generated by plot.py at 2018-05-30 23:32:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 265.65 Mbit/s

95th percentile per-packet one-way delay: 143.294 ms

Loss rate: 0.43%

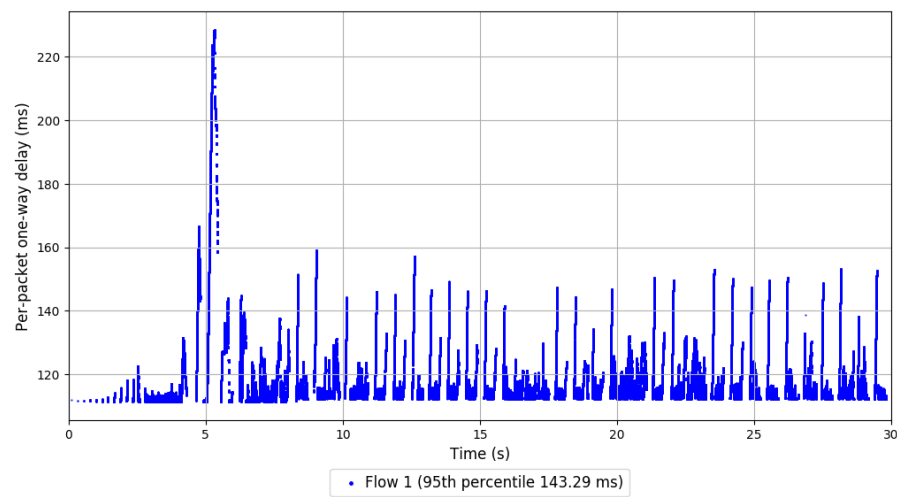
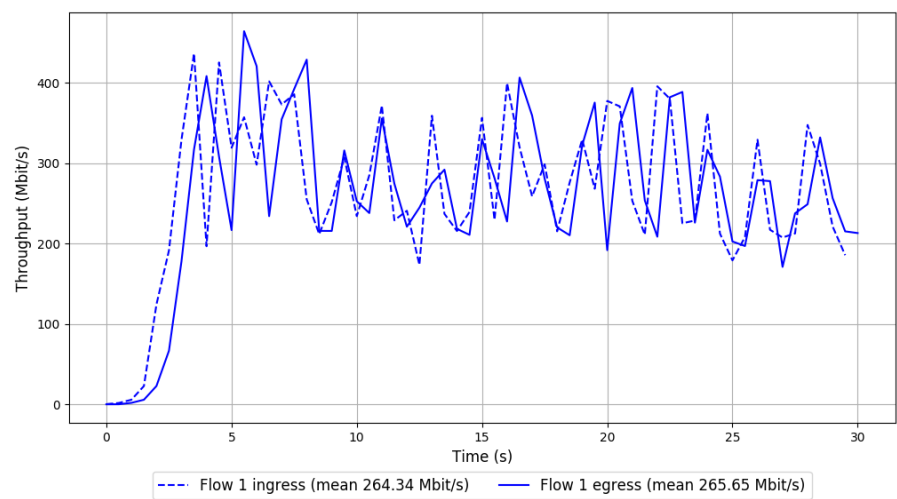
-- Flow 1:

Average throughput: 265.65 Mbit/s

95th percentile per-packet one-way delay: 143.294 ms

Loss rate: 0.43%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-30 21:38:36

End at: 2018-05-30 21:39:06

Local clock offset: -0.27 ms

Remote clock offset: 0.449 ms

# Below is generated by plot.py at 2018-05-30 23:32:50

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.18 Mbit/s

95th percentile per-packet one-way delay: 136.800 ms

Loss rate: 0.53%

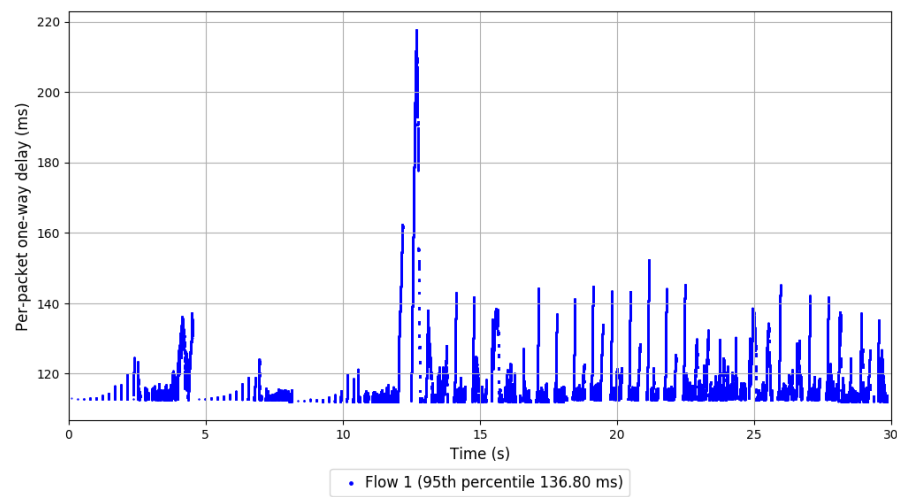
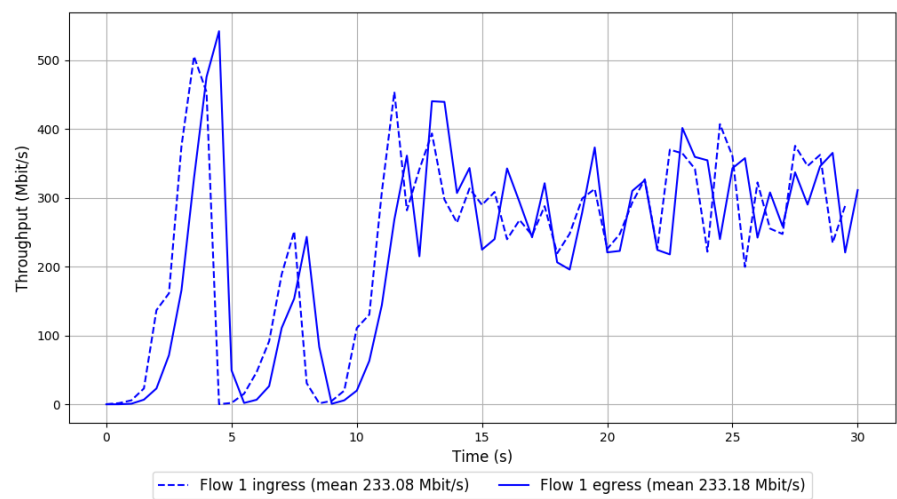
-- Flow 1:

Average throughput: 233.18 Mbit/s

95th percentile per-packet one-way delay: 136.800 ms

Loss rate: 0.53%

Run 9: Report of Verus — Data Link

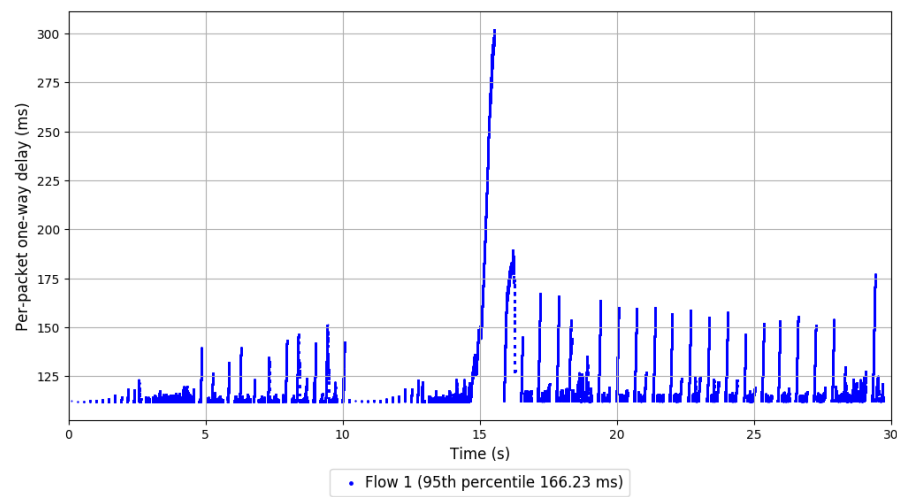
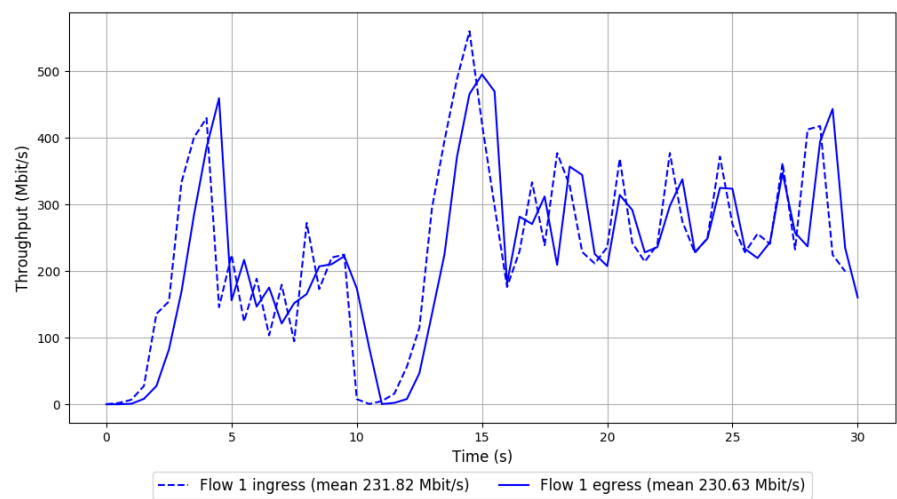


Run 10: Statistics of Verus

Start at: 2018-05-30 21:59:58  
End at: 2018-05-30 22:00:28  
Local clock offset: -0.126 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-05-30 23:32:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 230.63 Mbit/s  
95th percentile per-packet one-way delay: 166.230 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 230.63 Mbit/s  
95th percentile per-packet one-way delay: 166.230 ms  
Loss rate: 1.50%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-30 19:02:17

End at: 2018-05-30 19:02:47

Local clock offset: -0.3 ms

Remote clock offset: -0.802 ms

# Below is generated by plot.py at 2018-05-30 23:35:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 367.22 Mbit/s

95th percentile per-packet one-way delay: 128.290 ms

Loss rate: 1.20%

-- Flow 1:

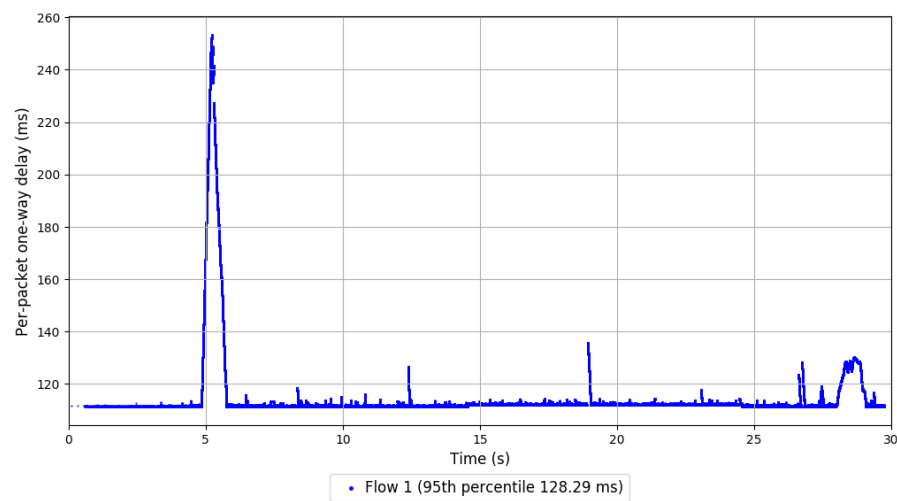
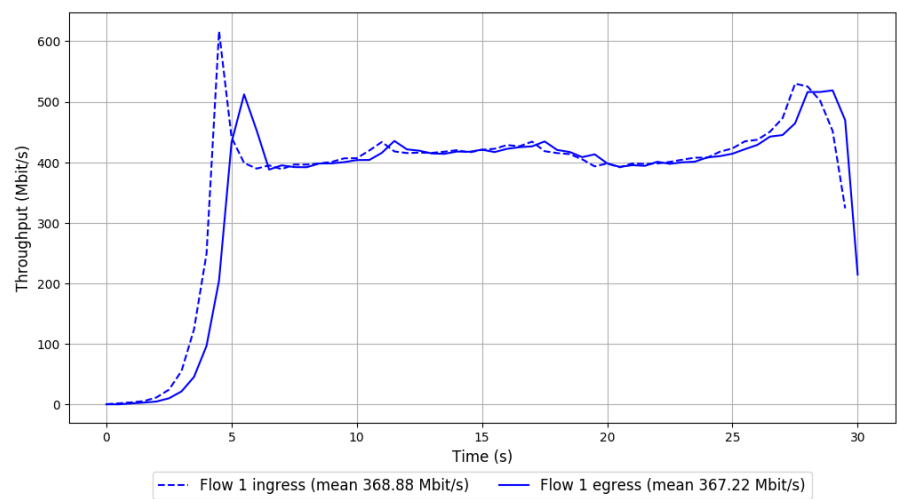
Average throughput: 367.22 Mbit/s

95th percentile per-packet one-way delay: 128.290 ms

Loss rate: 1.20%



Run 1: Report of PCC-Vivace — Data Link

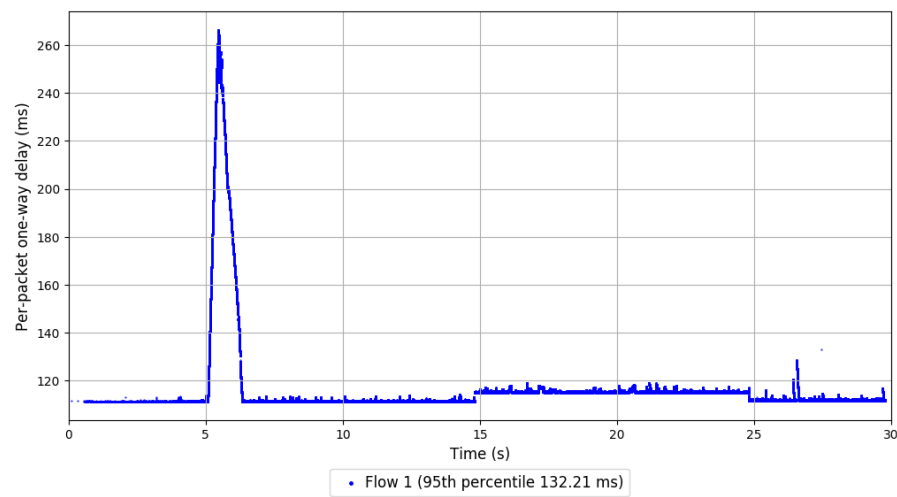
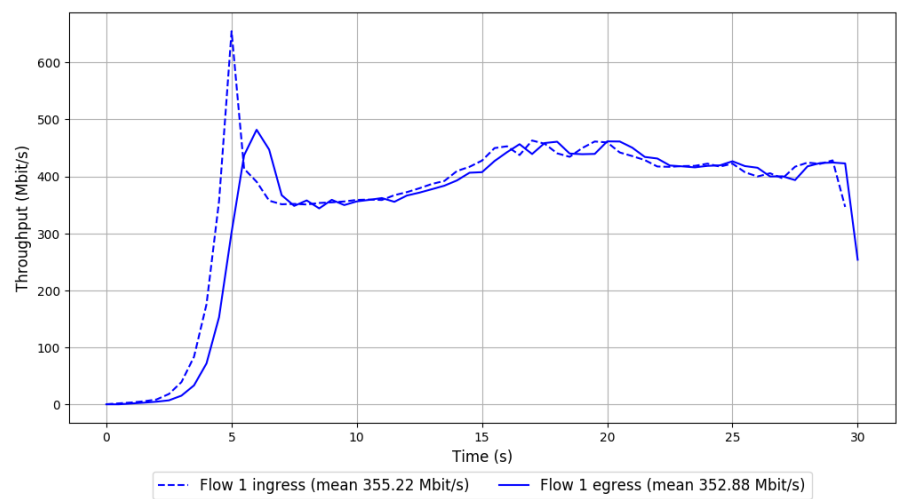


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-30 19:23:09  
End at: 2018-05-30 19:23:39  
Local clock offset: -0.372 ms  
Remote clock offset: -0.906 ms

# Below is generated by plot.py at 2018-05-30 23:35:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 352.88 Mbit/s  
95th percentile per-packet one-way delay: 132.205 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 352.88 Mbit/s  
95th percentile per-packet one-way delay: 132.205 ms  
Loss rate: 1.40%

Run 2: Report of PCC-Vivace — Data Link

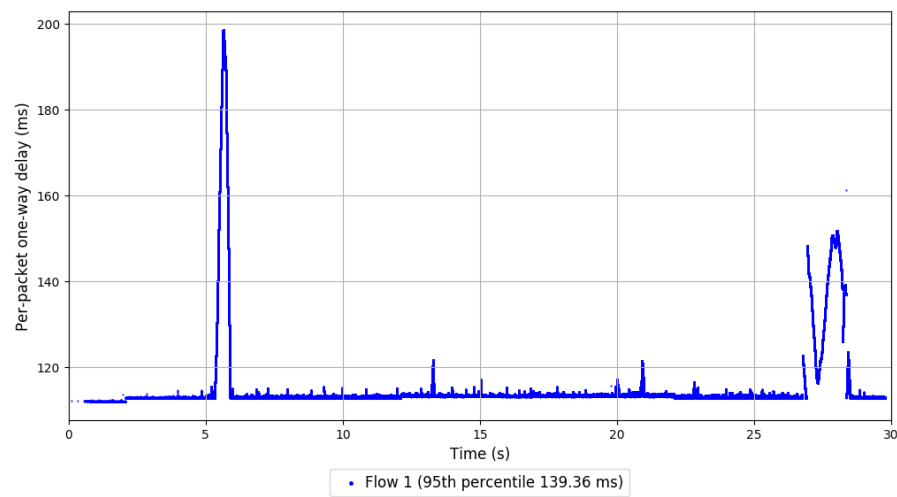
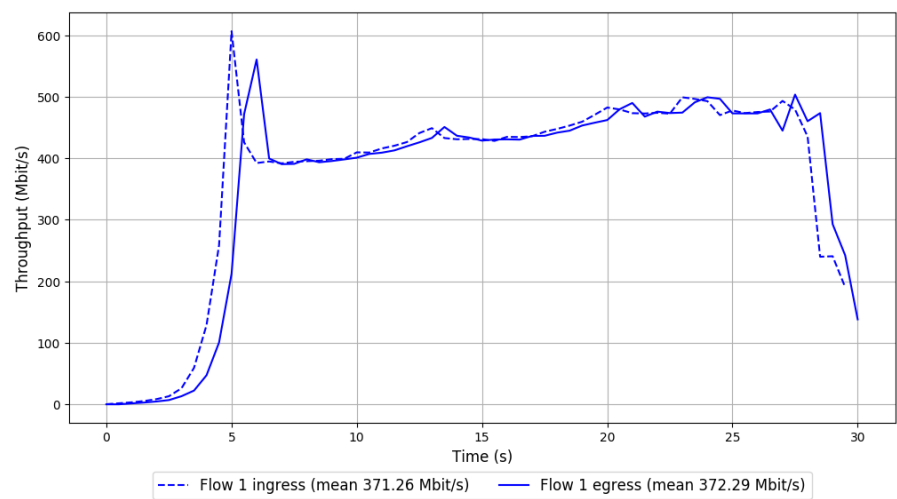


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-30 19:44:00  
End at: 2018-05-30 19:44:30  
Local clock offset: -0.714 ms  
Remote clock offset: -1.148 ms

# Below is generated by plot.py at 2018-05-30 23:36:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 372.29 Mbit/s  
95th percentile per-packet one-way delay: 139.356 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 372.29 Mbit/s  
95th percentile per-packet one-way delay: 139.356 ms  
Loss rate: 0.47%

Run 3: Report of PCC-Vivace — Data Link

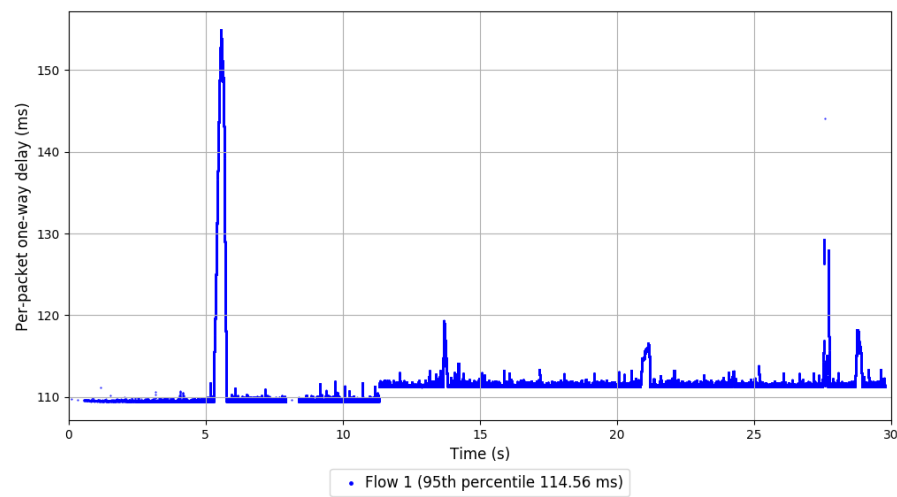
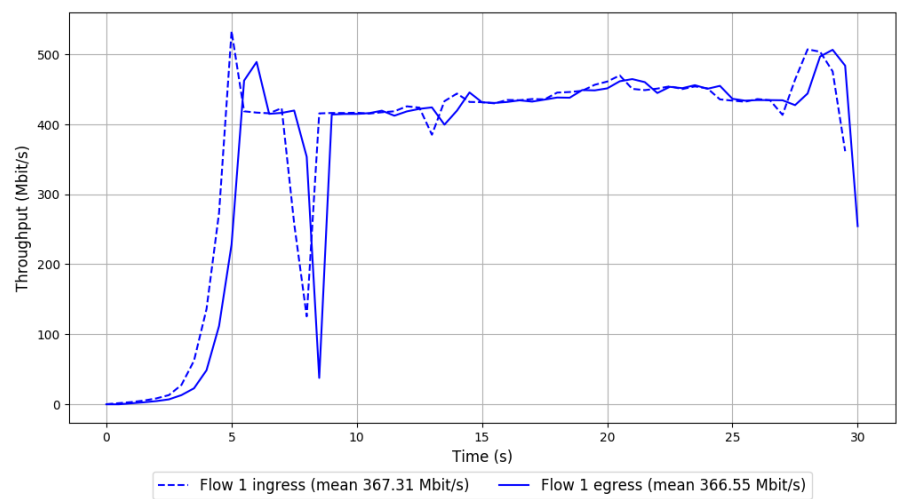


Run 4: Statistics of PCC-Vivace

Start at: 2018-05-30 20:04:51  
End at: 2018-05-30 20:05:21  
Local clock offset: -0.267 ms  
Remote clock offset: -0.778 ms

# Below is generated by plot.py at 2018-05-30 23:36:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 366.55 Mbit/s  
95th percentile per-packet one-way delay: 114.560 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 366.55 Mbit/s  
95th percentile per-packet one-way delay: 114.560 ms  
Loss rate: 0.95%

Run 4: Report of PCC-Vivace — Data Link



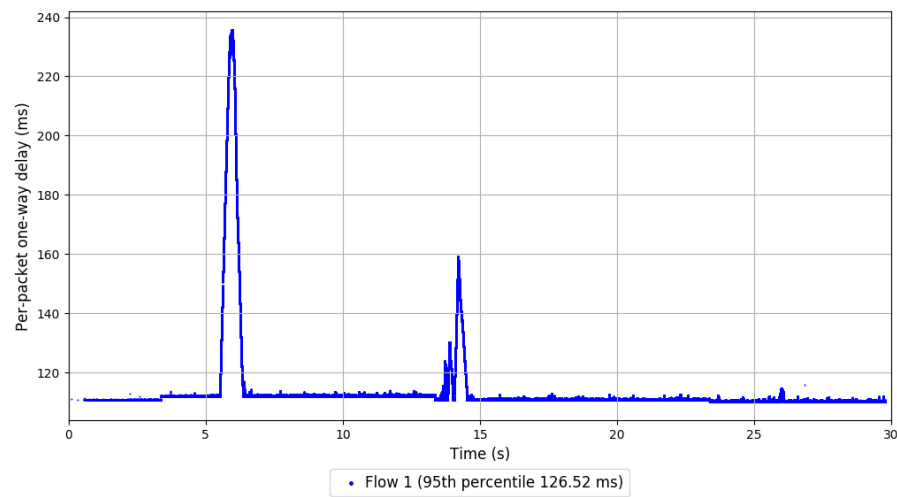
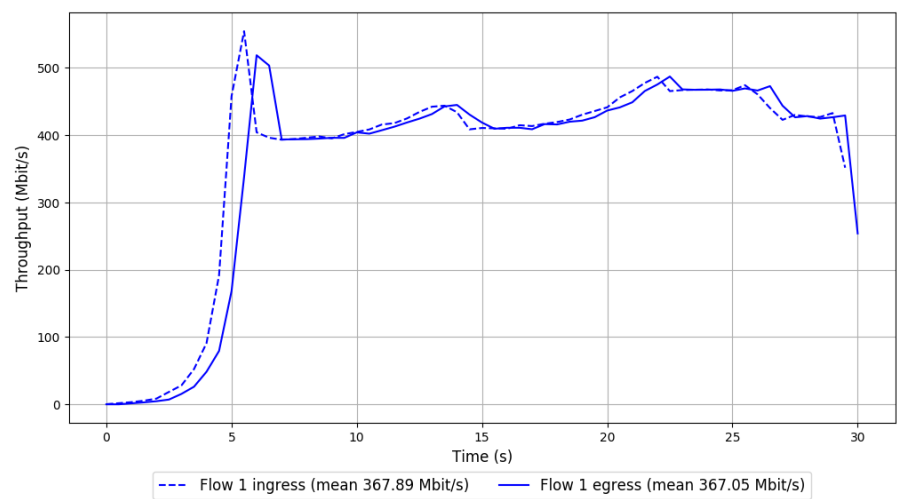
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-30 20:25:50  
End at: 2018-05-30 20:26:20  
Local clock offset: -0.028 ms  
Remote clock offset: -0.362 ms

# Below is generated by plot.py at 2018-05-30 23:37:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 367.05 Mbit/s  
95th percentile per-packet one-way delay: 126.515 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 367.05 Mbit/s  
95th percentile per-packet one-way delay: 126.515 ms  
Loss rate: 0.97%



Run 5: Report of PCC-Vivace — Data Link

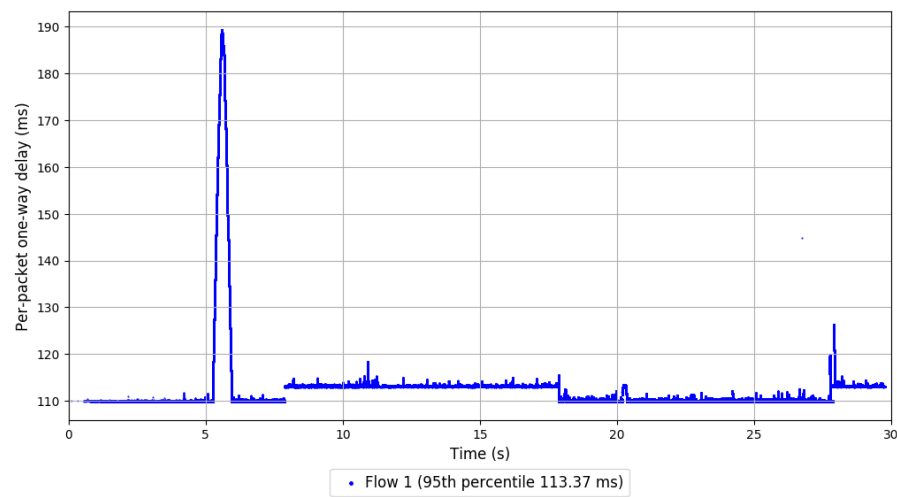
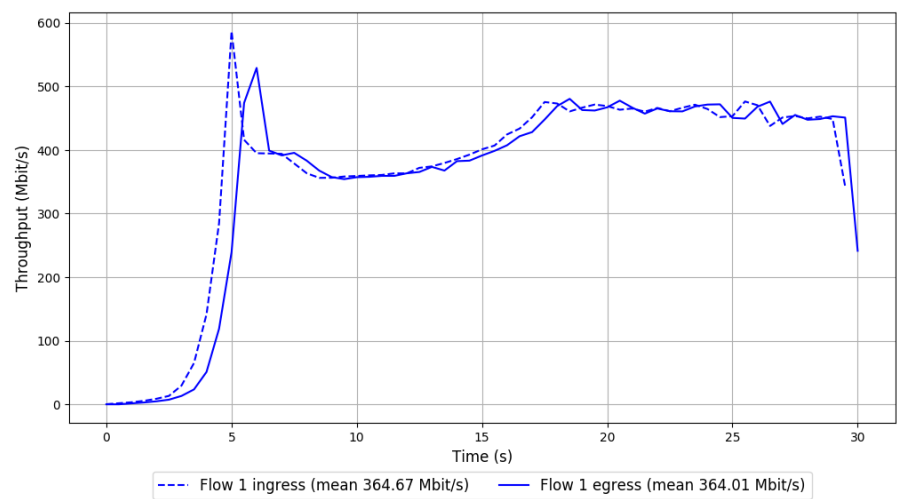


Run 6: Statistics of PCC-Vivace

Start at: 2018-05-30 20:46:56  
End at: 2018-05-30 20:47:26  
Local clock offset: -0.137 ms  
Remote clock offset: -0.243 ms

# Below is generated by plot.py at 2018-05-30 23:38:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 364.01 Mbit/s  
95th percentile per-packet one-way delay: 113.366 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 364.01 Mbit/s  
95th percentile per-packet one-way delay: 113.366 ms  
Loss rate: 0.92%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-30 21:07:51

End at: 2018-05-30 21:08:22

Local clock offset: -0.244 ms

Remote clock offset: 0.638 ms

# Below is generated by plot.py at 2018-05-30 23:38:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.59 Mbit/s

95th percentile per-packet one-way delay: 120.172 ms

Loss rate: 0.86%

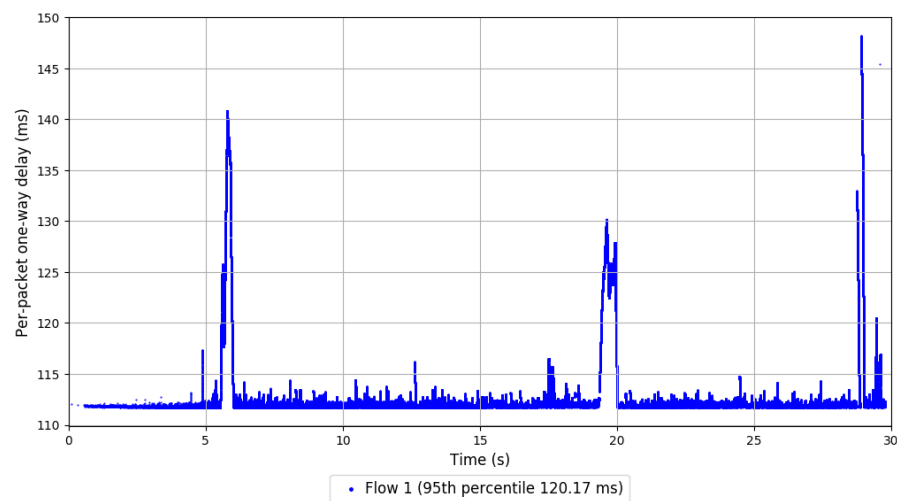
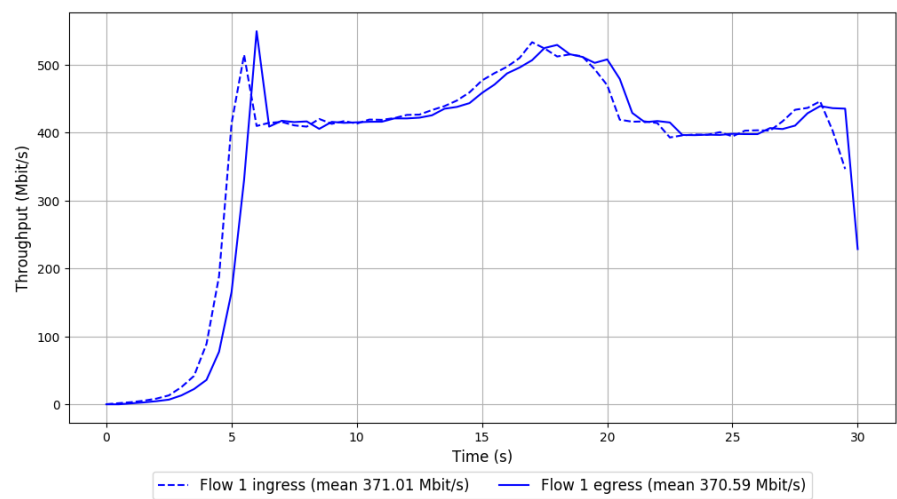
-- Flow 1:

Average throughput: 370.59 Mbit/s

95th percentile per-packet one-way delay: 120.172 ms

Loss rate: 0.86%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-30 21:28:52

End at: 2018-05-30 21:29:22

Local clock offset: -0.274 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-30 23:38:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 378.66 Mbit/s

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

Loss rate: 1.01%

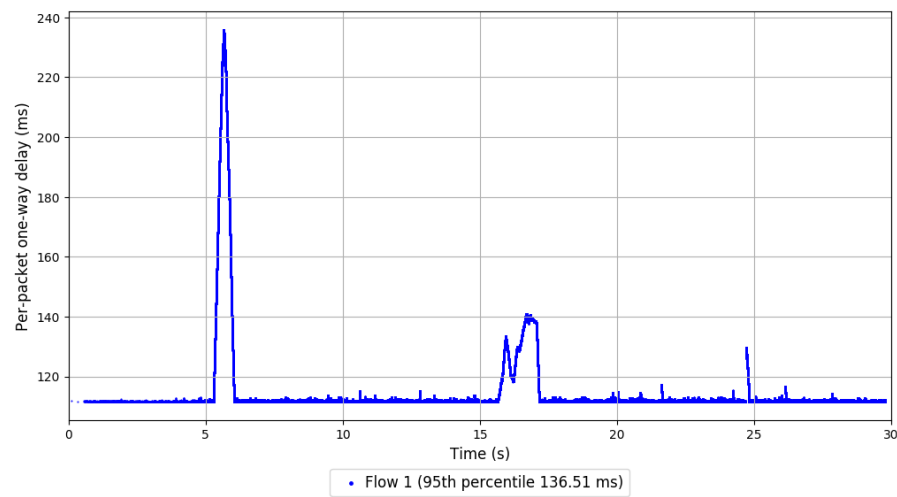
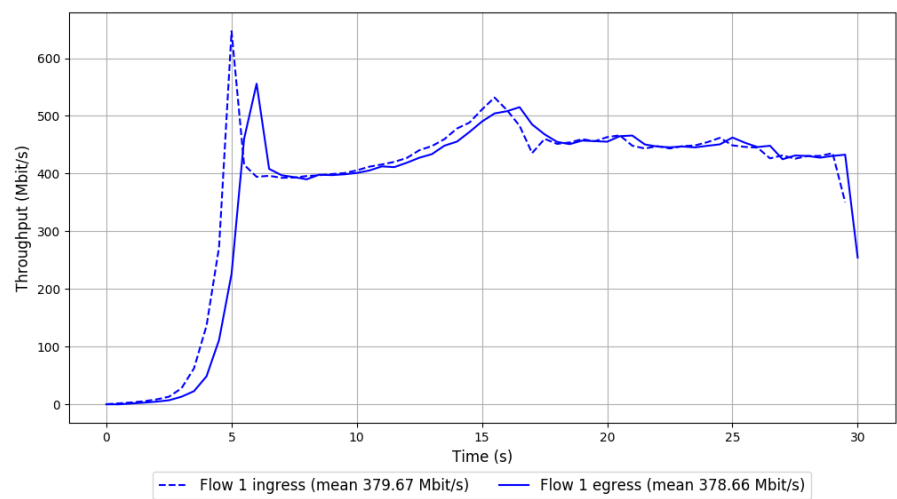
-- Flow 1:

Average throughput: 378.66 Mbit/s

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

Loss rate: 1.01%

Run 8: Report of PCC-Vivace — Data Link



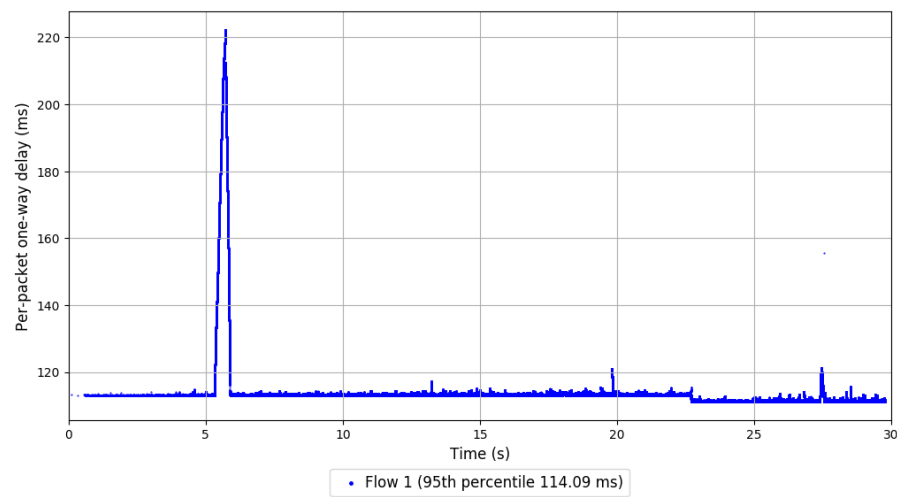
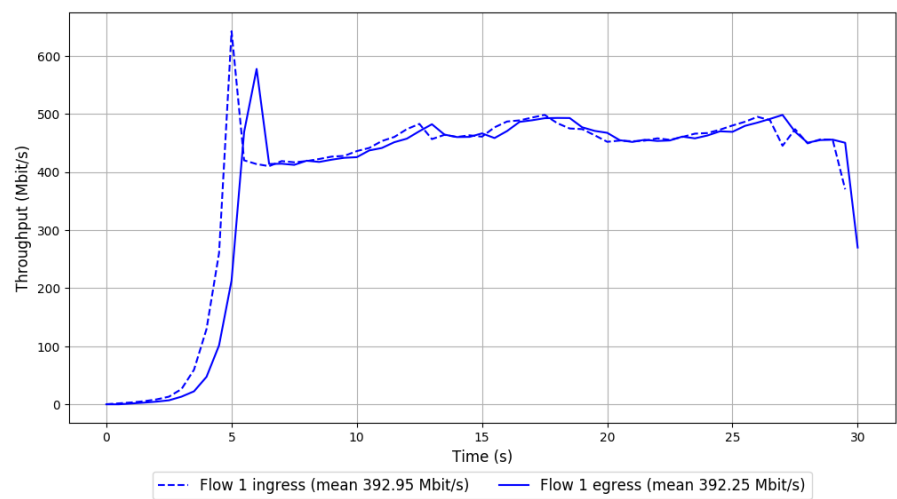
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-30 21:50:31  
End at: 2018-05-30 21:51:01  
Local clock offset: 0.075 ms  
Remote clock offset: -0.338 ms

# Below is generated by plot.py at 2018-05-30 23:38:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 392.25 Mbit/s  
95th percentile per-packet one-way delay: 114.088 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 392.25 Mbit/s  
95th percentile per-packet one-way delay: 114.088 ms  
Loss rate: 0.93%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-30 22:11:26

End at: 2018-05-30 22:11:56

Local clock offset: -0.036 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-05-30 23:39:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 397.63 Mbit/s

95th percentile per-packet one-way delay: 113.766 ms

Loss rate: 0.92%

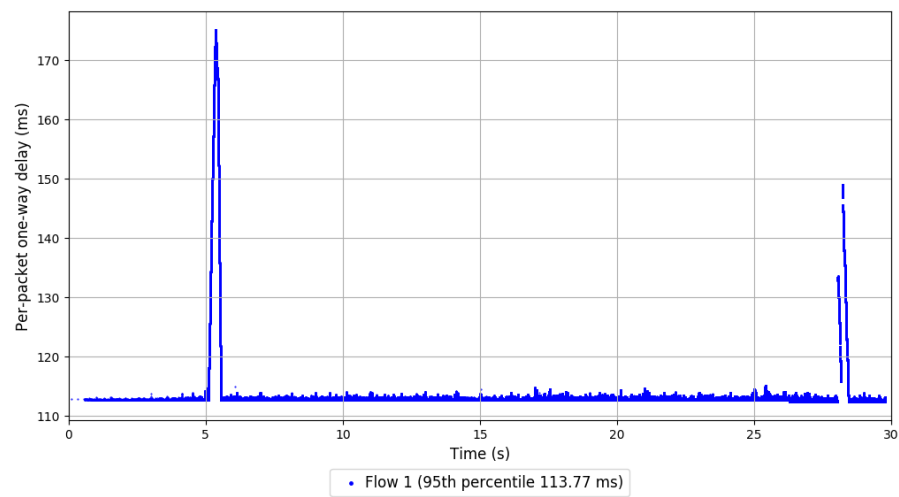
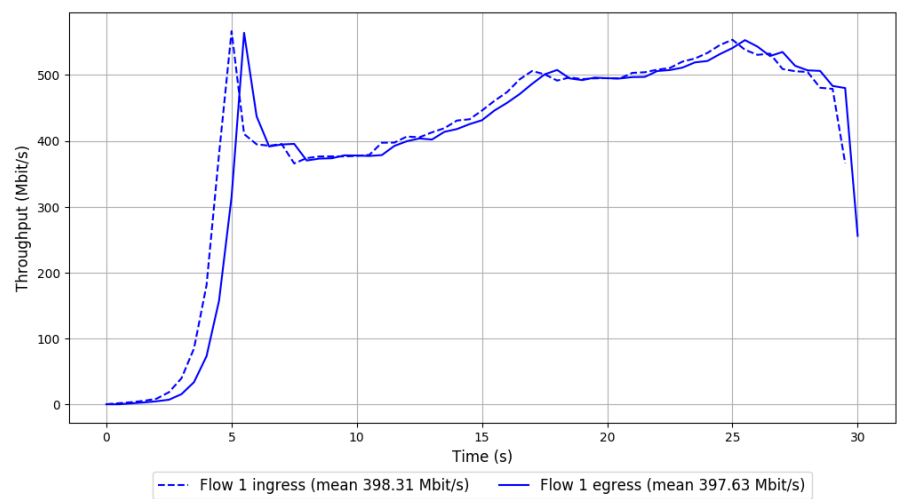
-- Flow 1:

Average throughput: 397.63 Mbit/s

95th percentile per-packet one-way delay: 113.766 ms

Loss rate: 0.92%

Run 10: Report of PCC-Vivace — Data Link

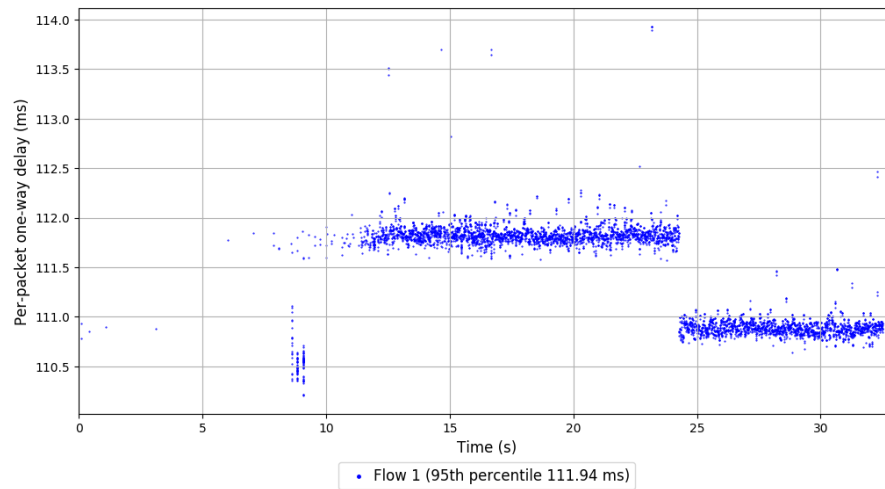
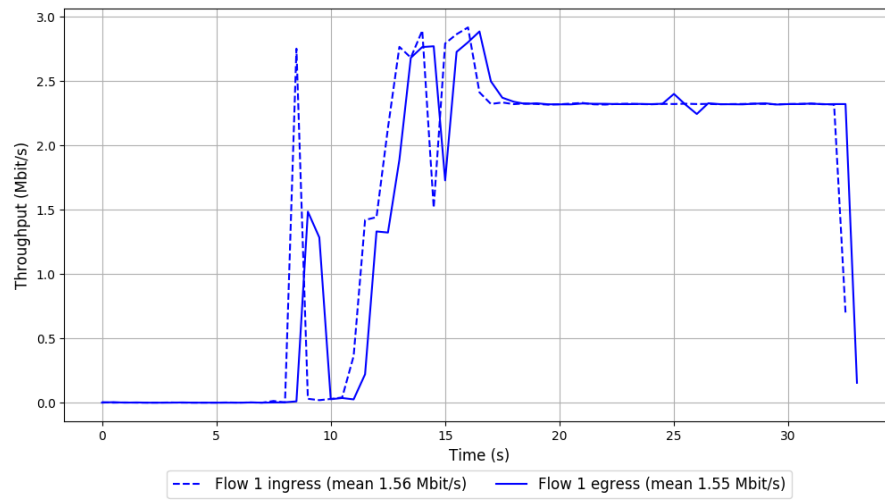


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-30 18:52:02
End at: 2018-05-30 18:52:32
Local clock offset: -1.185 ms
Remote clock offset: -0.329 ms

# Below is generated by plot.py at 2018-05-30 23:39:00
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 111.942 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 111.942 ms
Loss rate: 1.06%
```

# Run 1: Report of WebRTC media — Data Link

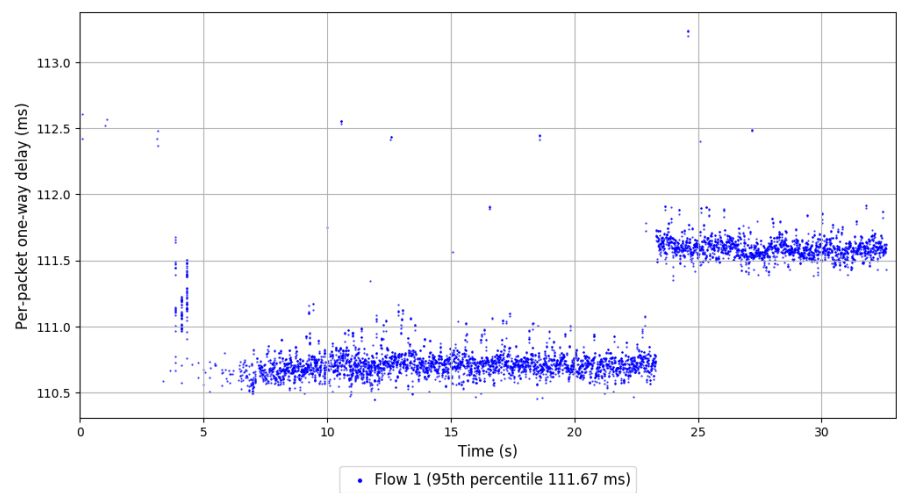
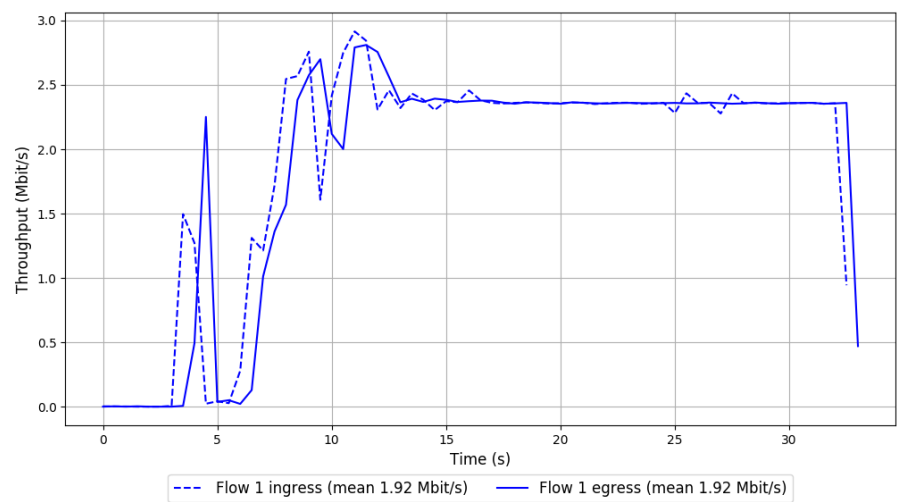


Run 2: Statistics of WebRTC media

Start at: 2018-05-30 19:12:53  
End at: 2018-05-30 19:13:23  
Local clock offset: -0.557 ms  
Remote clock offset: -0.423 ms

# Below is generated by plot.py at 2018-05-30 23:39:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 111.668 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 1.92 Mbit/s  
95th percentile per-packet one-way delay: 111.668 ms  
Loss rate: 0.81%

Run 2: Report of WebRTC media — Data Link



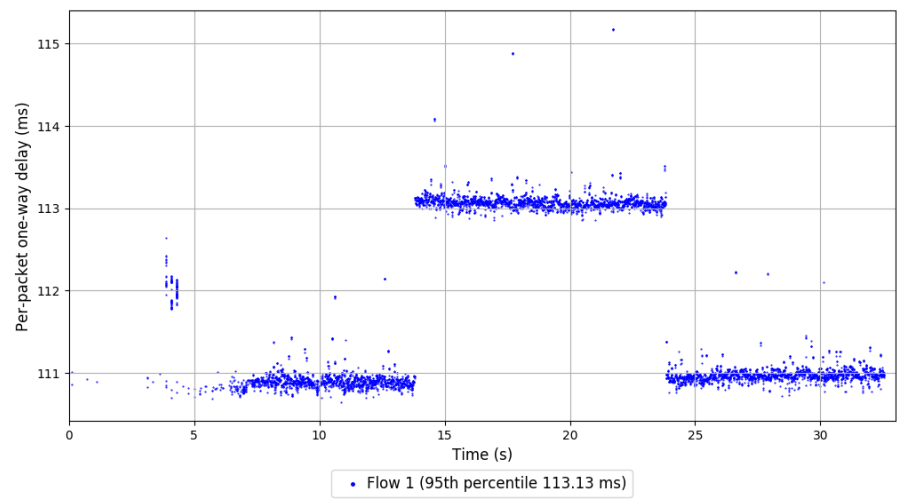
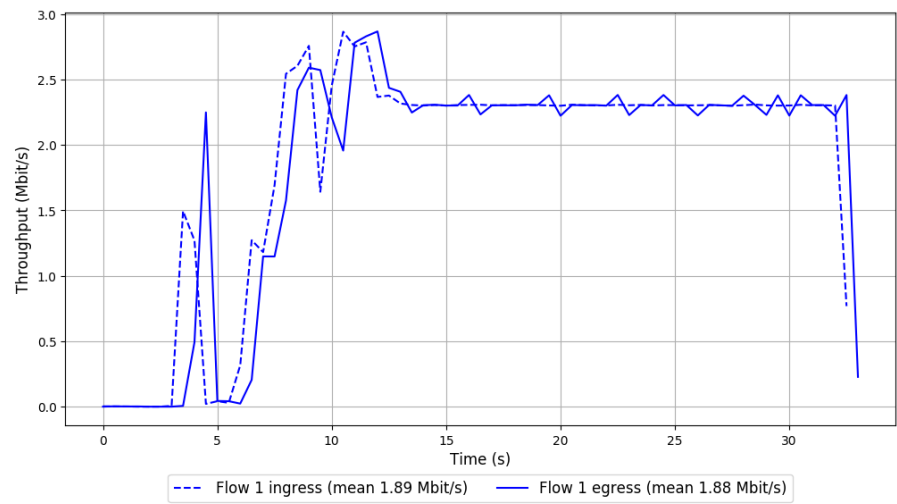
Run 3: Statistics of WebRTC media

Start at: 2018-05-30 19:33:41  
End at: 2018-05-30 19:34:11  
Local clock offset: -0.519 ms  
Remote clock offset: -0.651 ms

# Below is generated by plot.py at 2018-05-30 23:39:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 113.130 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 113.130 ms  
Loss rate: 0.81%



Run 3: Report of WebRTC media — Data Link

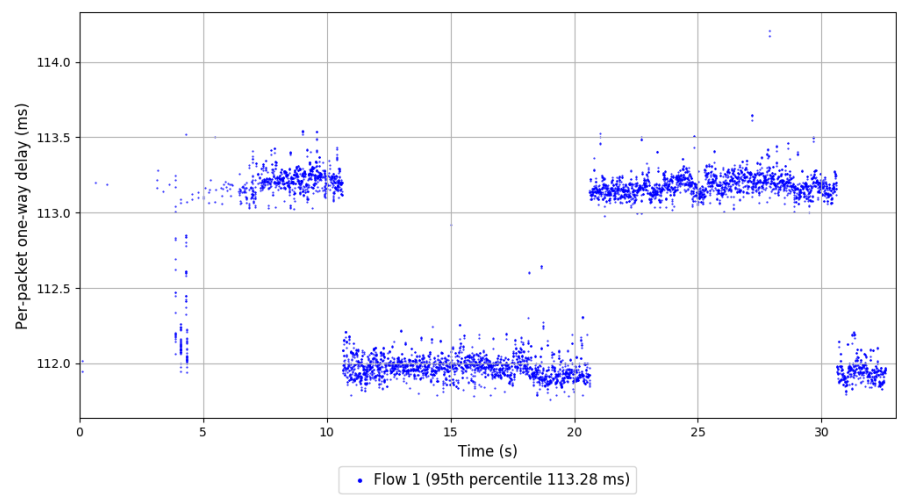
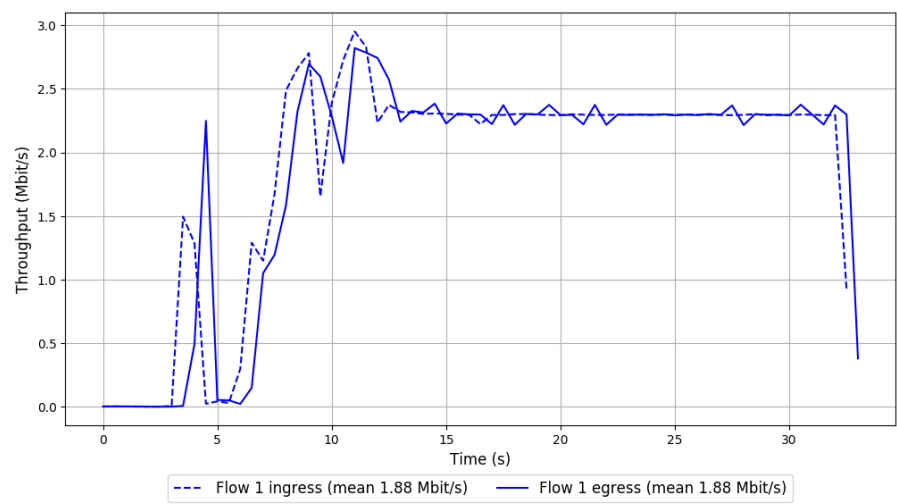


Run 4: Statistics of WebRTC media

Start at: 2018-05-30 19:54:46  
End at: 2018-05-30 19:55:16  
Local clock offset: -0.99 ms  
Remote clock offset: -1.298 ms

# Below is generated by plot.py at 2018-05-30 23:39:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 113.280 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 113.280 ms  
Loss rate: 0.81%

Run 4: Report of WebRTC media — Data Link

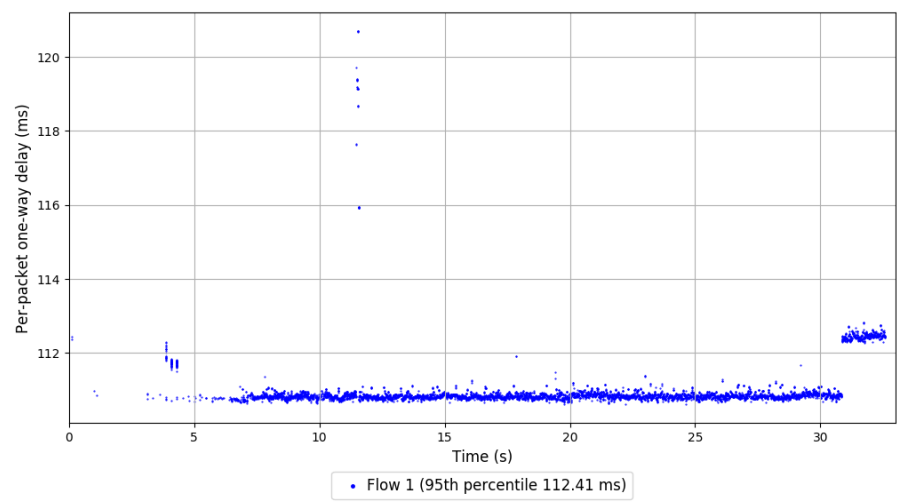
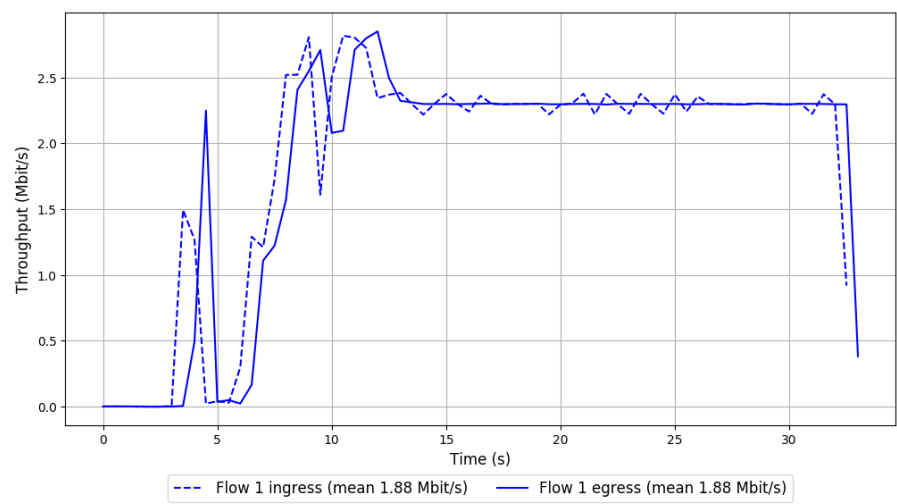


Run 5: Statistics of WebRTC media

Start at: 2018-05-30 20:15:36  
End at: 2018-05-30 20:16:06  
Local clock offset: -0.189 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-05-30 23:39:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 112.410 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 1.88 Mbit/s  
95th percentile per-packet one-way delay: 112.410 ms  
Loss rate: 0.87%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-30 20:36:45

End at: 2018-05-30 20:37:15

Local clock offset: 0.203 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-05-30 23:39:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.992 ms

Loss rate: 0.81%

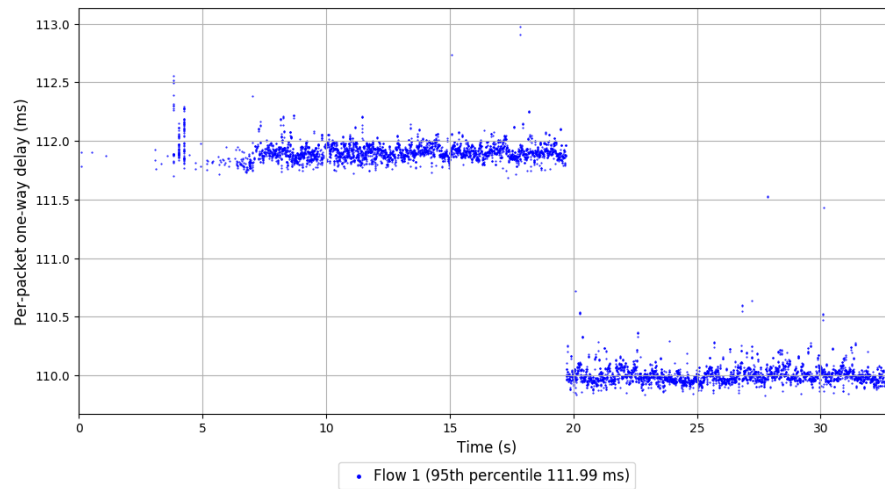
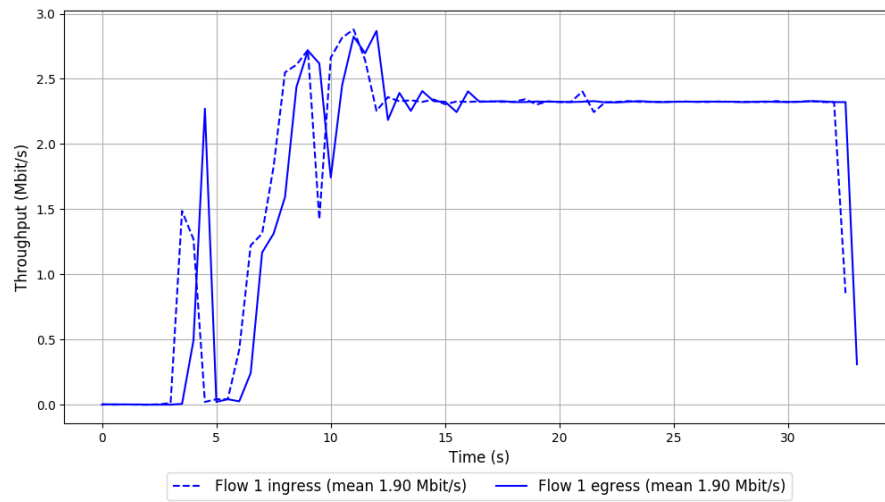
-- Flow 1:

Average throughput: 1.90 Mbit/s

95th percentile per-packet one-way delay: 111.992 ms

Loss rate: 0.81%

## Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-30 20:57:41

End at: 2018-05-30 20:58:11

Local clock offset: -0.178 ms

Remote clock offset: 0.2 ms

# Below is generated by plot.py at 2018-05-30 23:39:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 0.87%

-- Flow 1:

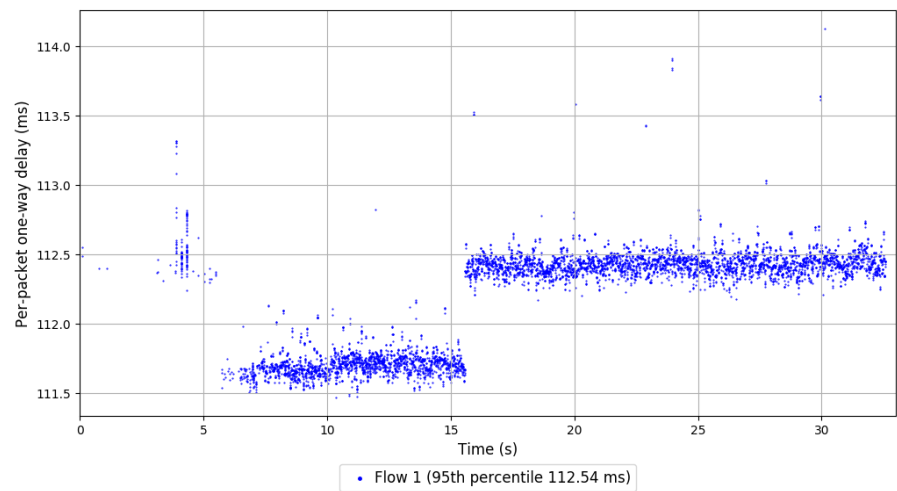
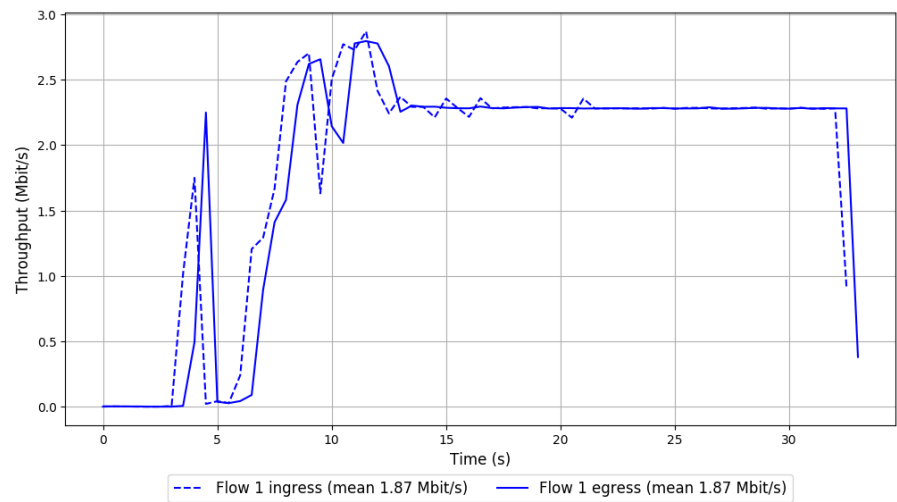
Average throughput: 1.87 Mbit/s

95th percentile per-packet one-way delay: 112.539 ms

Loss rate: 0.87%



Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-30 21:18:31

End at: 2018-05-30 21:19:01

Local clock offset: -0.109 ms

Remote clock offset: 0.314 ms

# Below is generated by plot.py at 2018-05-30 23:39:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 112.888 ms

Loss rate: 0.86%

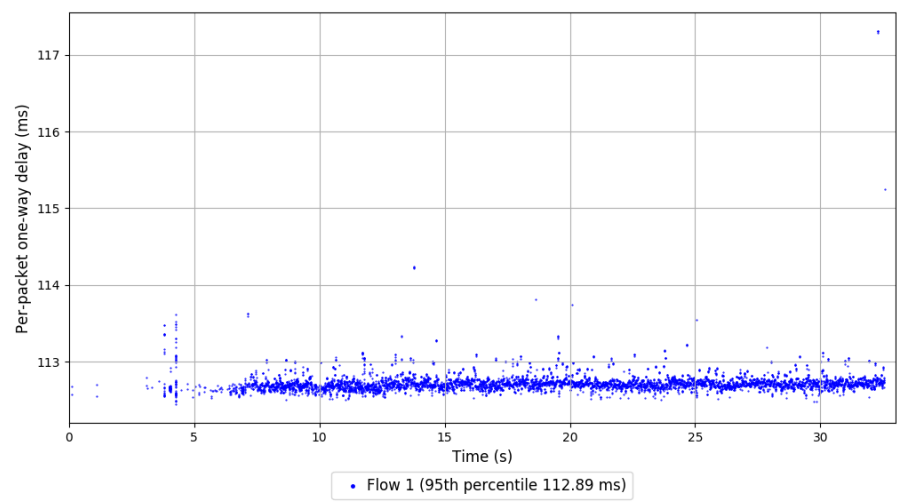
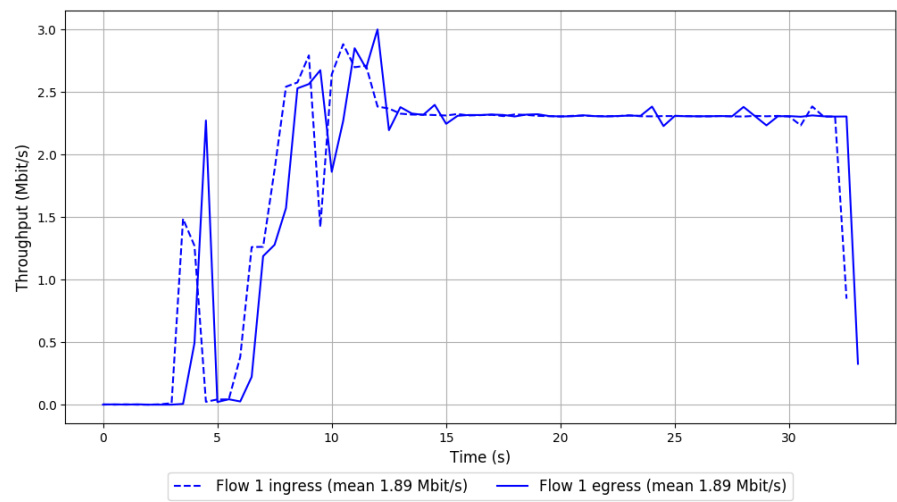
-- Flow 1:

Average throughput: 1.89 Mbit/s

95th percentile per-packet one-way delay: 112.888 ms

Loss rate: 0.86%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-30 21:39:59

End at: 2018-05-30 21:40:29

Local clock offset: -0.153 ms

Remote clock offset: 0.455 ms

# Below is generated by plot.py at 2018-05-30 23:39:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 112.463 ms

Loss rate: 0.87%

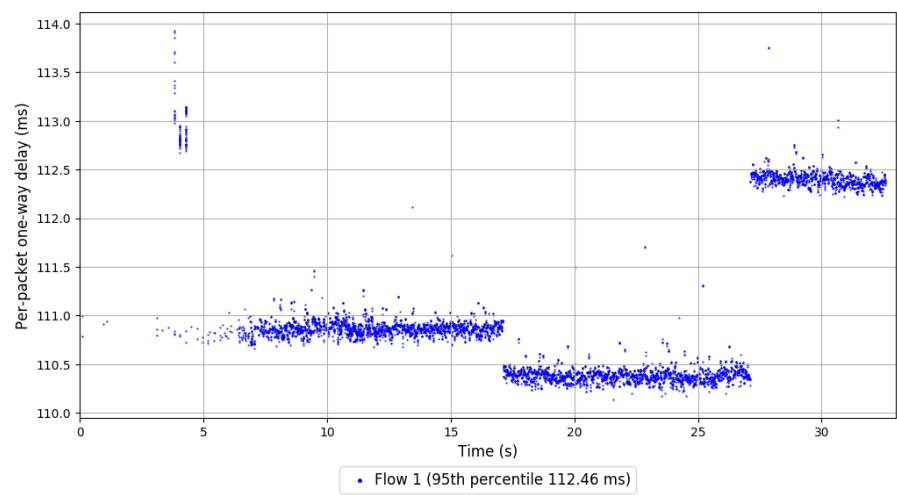
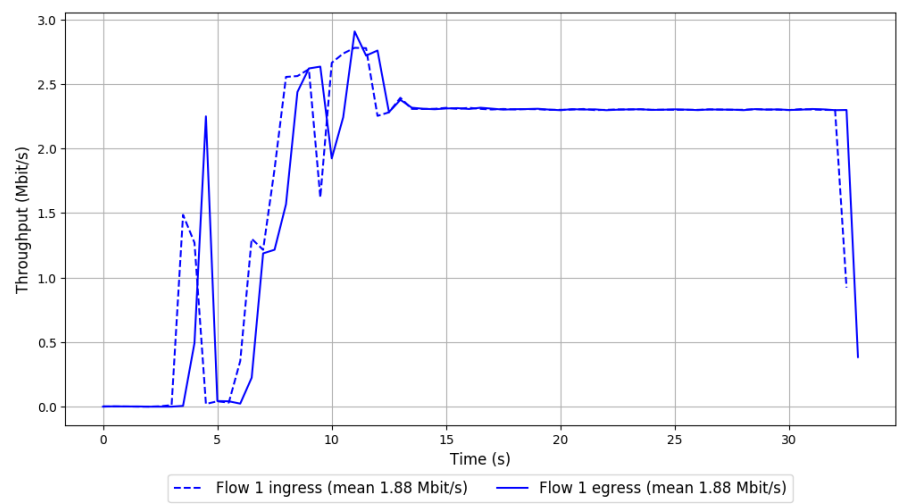
-- Flow 1:

Average throughput: 1.88 Mbit/s

95th percentile per-packet one-way delay: 112.463 ms

Loss rate: 0.87%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-30 22:01:21  
End at: 2018-05-30 22:01:51  
Local clock offset: 0.039 ms  
Remote clock offset: -0.459 ms

# Below is generated by plot.py at 2018-05-30 23:39:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 113.071 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 1.82 Mbit/s  
95th percentile per-packet one-way delay: 113.071 ms  
Loss rate: 0.85%

Run 10: Report of WebRTC media — Data Link

