

## Pantheon Report

Generated at 2018-05-26 02:33:05 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

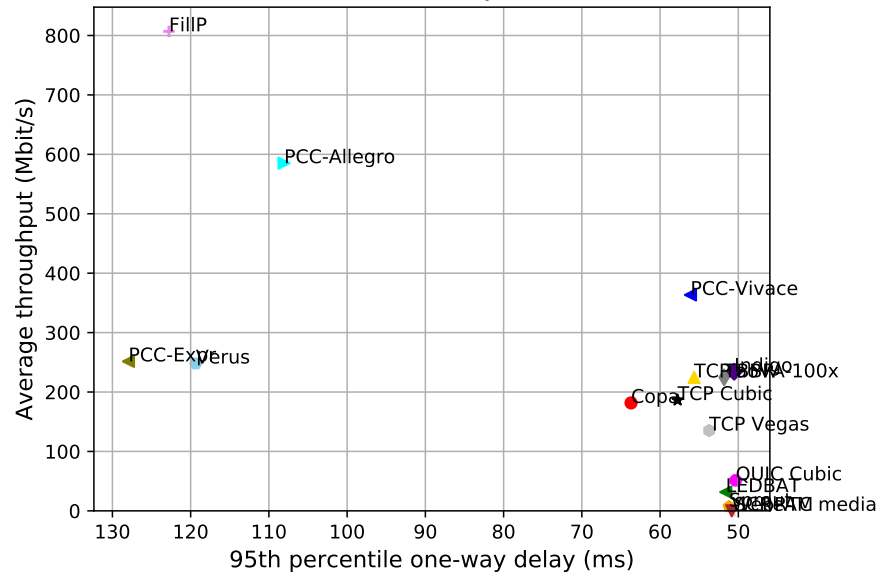
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

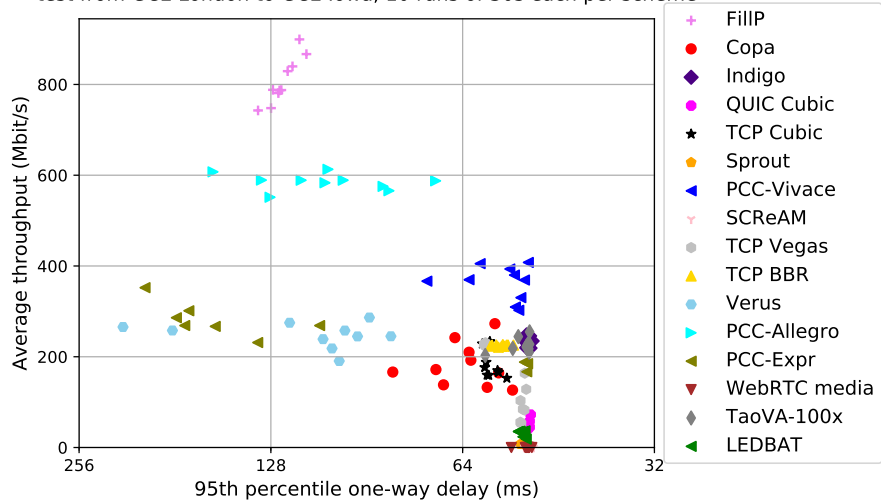
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
  M receiver/src/buffer.h
  M receiver/src/core.cpp
  M sender/src/buffer.h
  M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE London to GCE Iowa, 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	224.56	55.65	0.01
Copa	10	181.69	63.71	0.00
TCP Cubic	10	186.46	57.76	0.01
FillP	10	806.97	122.78	3.94
Indigo	10	234.12	50.53	0.00
LEDBAT	10	31.58	51.61	0.01
PCC-Allegro	10	585.12	108.06	0.40
PCC-Expr	10	251.53	127.95	2.31
QUIC Cubic	6	51.31	50.34	0.00
SCReAM	10	0.22	50.55	0.00
Sprout	10	7.17	51.20	0.00
TaoVA-100x	10	224.71	51.82	0.00
TCP Vegas	10	135.13	53.73	0.01
Verus	10	248.01	119.34	1.24
PCC-Vivace	10	363.40	56.12	0.04
WebRTC media	10	0.05	50.85	0.00

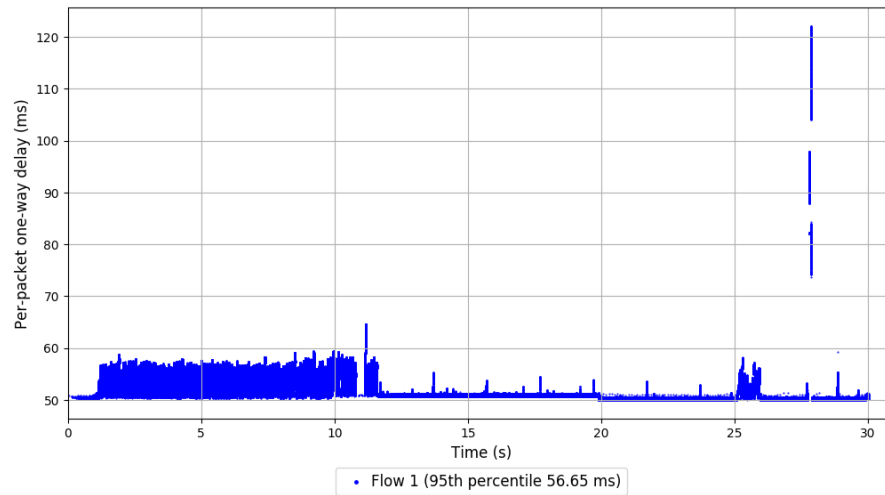
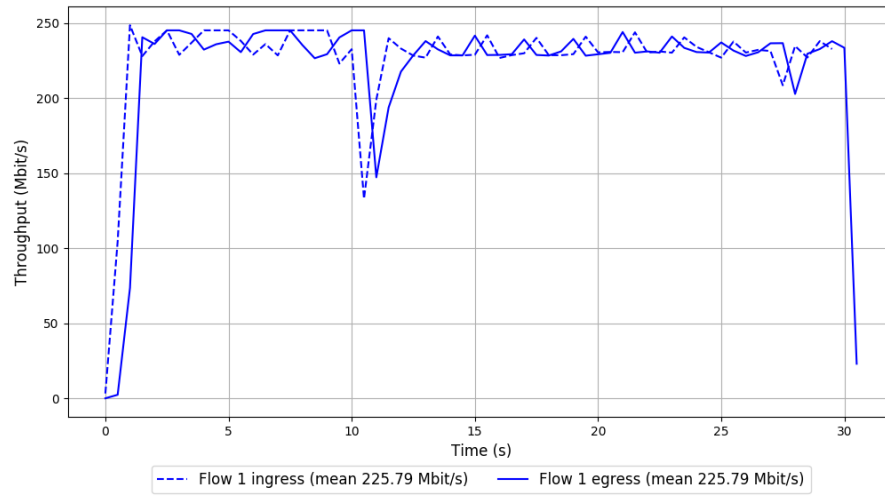
Run 1: Statistics of TCP BBR

Start at: 2018-05-25 21:47:31  
End at: 2018-05-25 21:48:01  
Local clock offset: -0.564 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2018-05-26 01:11:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 225.79 Mbit/s  
95th percentile per-packet one-way delay: 56.653 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 225.79 Mbit/s  
95th percentile per-packet one-way delay: 56.653 ms  
Loss rate: 0.00%



# Run 1: Report of TCP BBR — Data Link

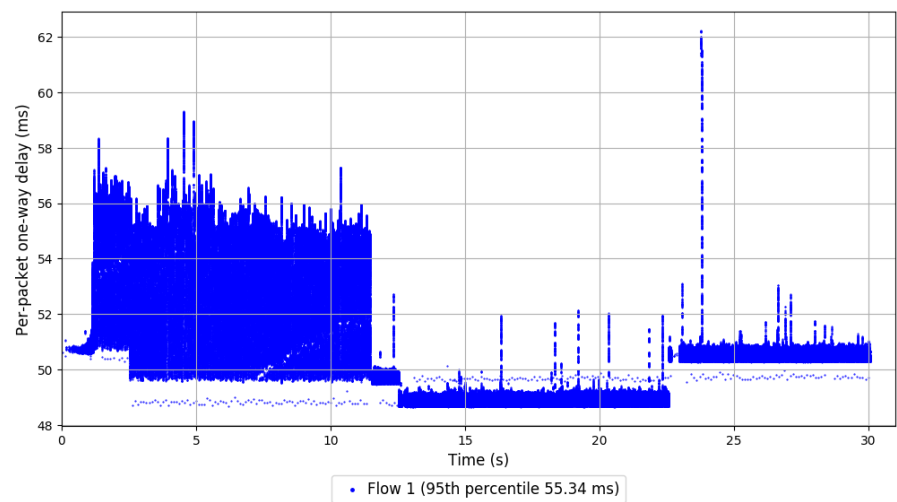
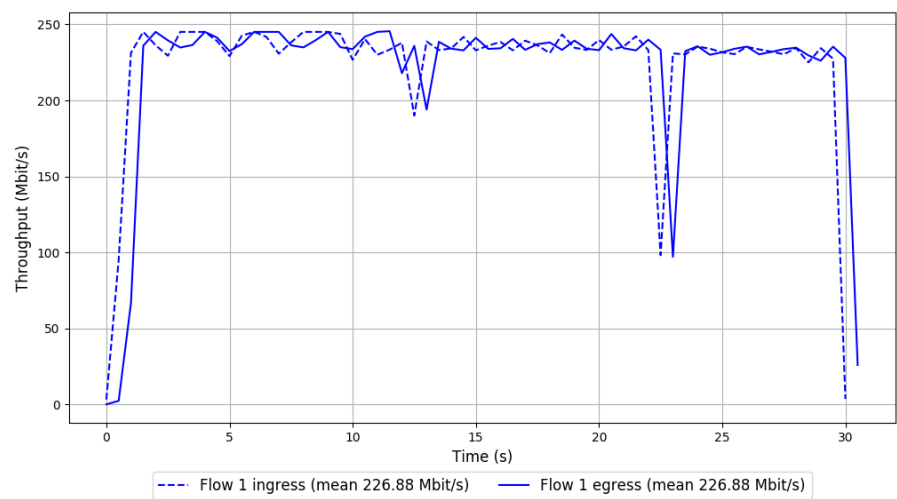


Run 2: Statistics of TCP BBR

Start at: 2018-05-25 22:08:09  
End at: 2018-05-25 22:08:39  
Local clock offset: -0.106 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 01:11:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 226.88 Mbit/s  
95th percentile per-packet one-way delay: 55.341 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 226.88 Mbit/s  
95th percentile per-packet one-way delay: 55.341 ms  
Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

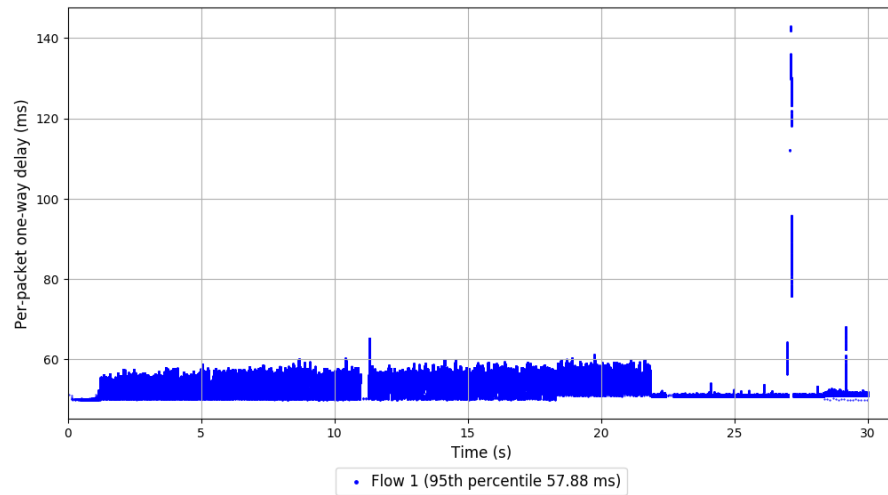
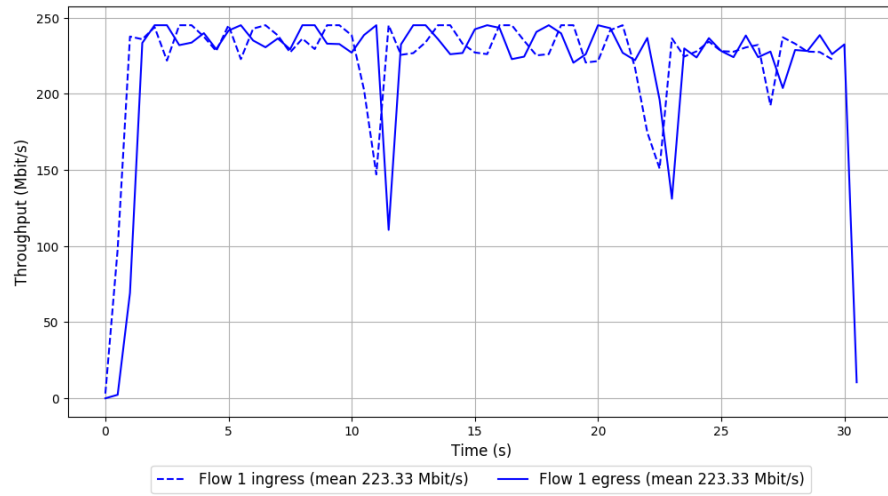


Run 3: Statistics of TCP BBR

Start at: 2018-05-25 22:28:43  
End at: 2018-05-25 22:29:13  
Local clock offset: -0.569 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-05-26 01:11:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 223.33 Mbit/s  
95th percentile per-packet one-way delay: 57.875 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 223.33 Mbit/s  
95th percentile per-packet one-way delay: 57.875 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP BBR

Start at: 2018-05-25 22:49:26

End at: 2018-05-25 22:49:56

Local clock offset: -0.587 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-26 01:11:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.64 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.00%

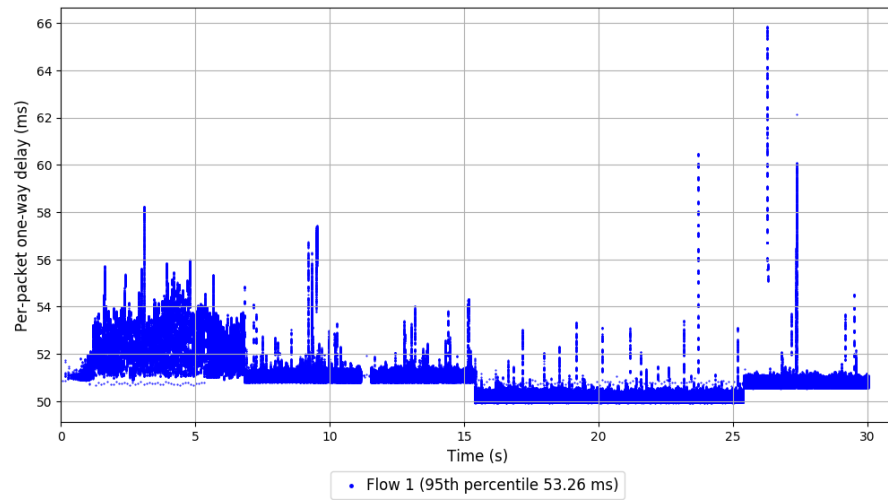
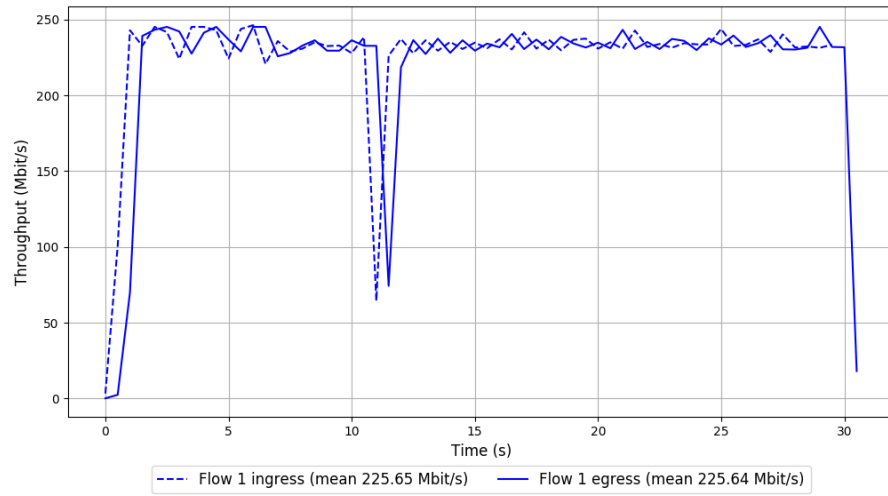
-- Flow 1:

Average throughput: 225.64 Mbit/s

95th percentile per-packet one-way delay: 53.260 ms

Loss rate: 0.00%

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



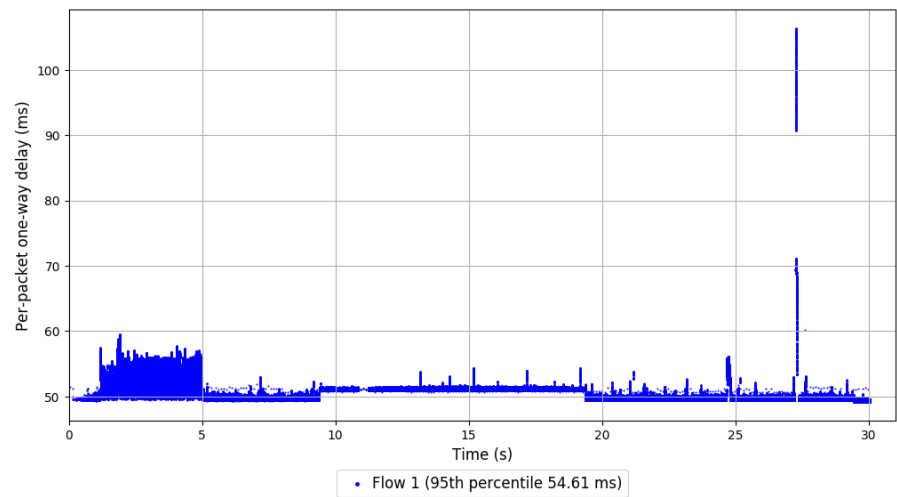
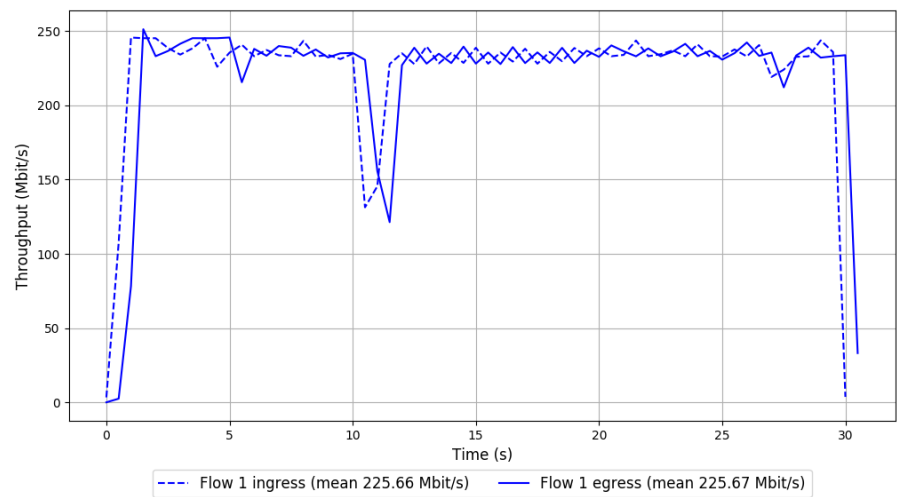
Run 5: Statistics of TCP BBR

Start at: 2018-05-25 23:09:42  
End at: 2018-05-25 23:10:12  
Local clock offset: -0.575 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-05-26 01:11:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 225.67 Mbit/s  
95th percentile per-packet one-way delay: 54.610 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 225.67 Mbit/s  
95th percentile per-packet one-way delay: 54.610 ms  
Loss rate: 0.00%



Run 5: Report of TCP BBR — Data Link



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 23:30:08

End at: 2018-05-25 23:30:38

Local clock offset: 0.198 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 01:11:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.87 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.00%

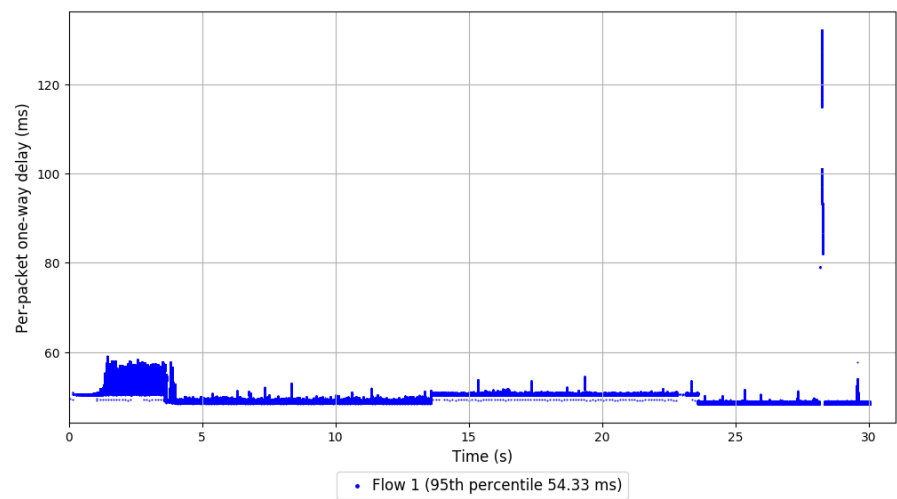
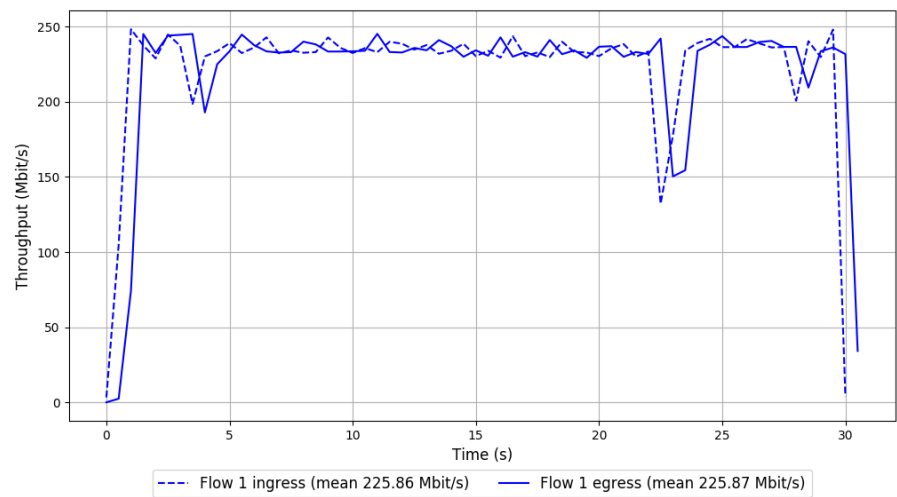
-- Flow 1:

Average throughput: 225.87 Mbit/s

95th percentile per-packet one-way delay: 54.332 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 23:50:40

End at: 2018-05-25 23:51:10

Local clock offset: 0.22 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 01:11:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.03 Mbit/s

95th percentile per-packet one-way delay: 56.230 ms

Loss rate: 0.00%

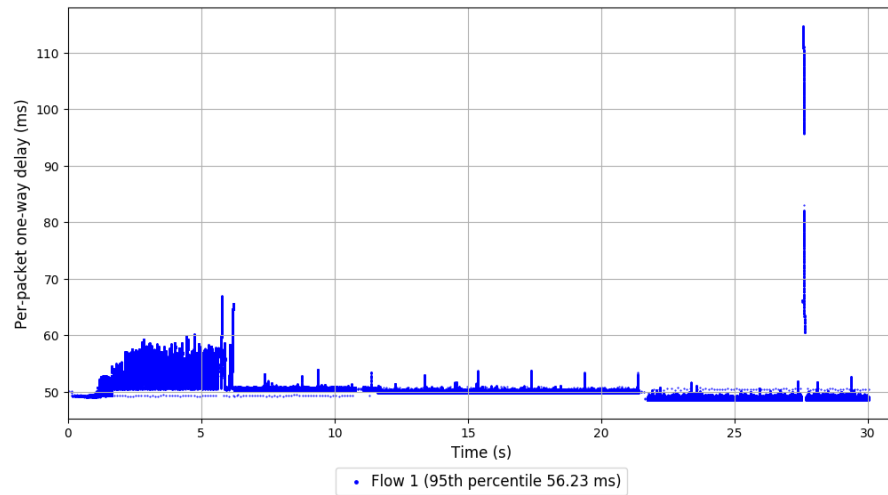
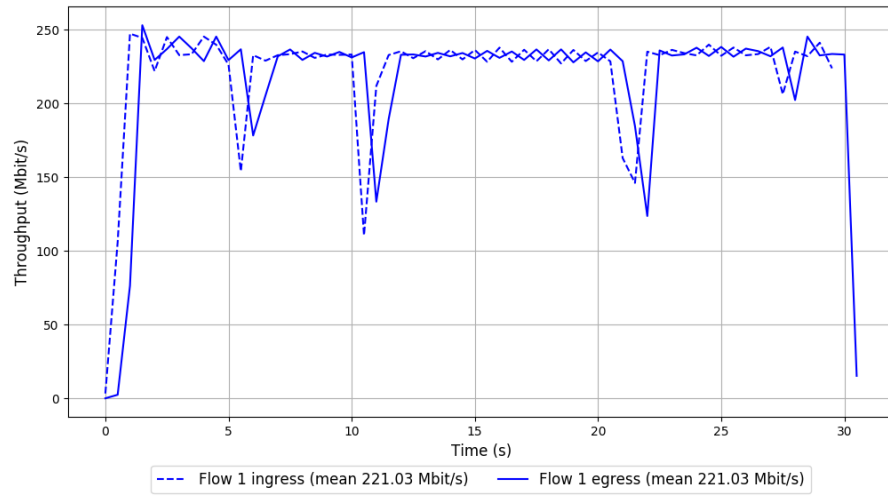
-- Flow 1:

Average throughput: 221.03 Mbit/s

95th percentile per-packet one-way delay: 56.230 ms

Loss rate: 0.00%

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



Run 8: Statistics of TCP BBR

Start at: 2018-05-26 00:11:06

End at: 2018-05-26 00:11:36

Local clock offset: -0.176 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-26 01:11:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.17 Mbit/s

95th percentile per-packet one-way delay: 55.081 ms

Loss rate: 0.12%

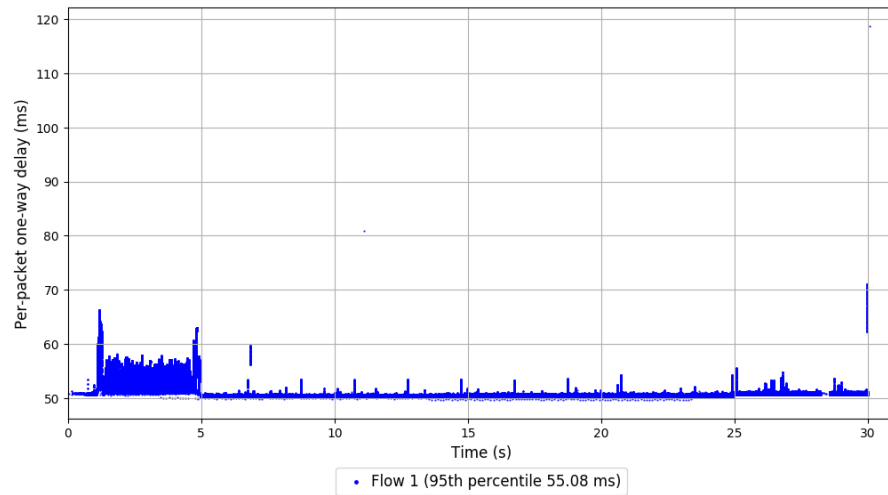
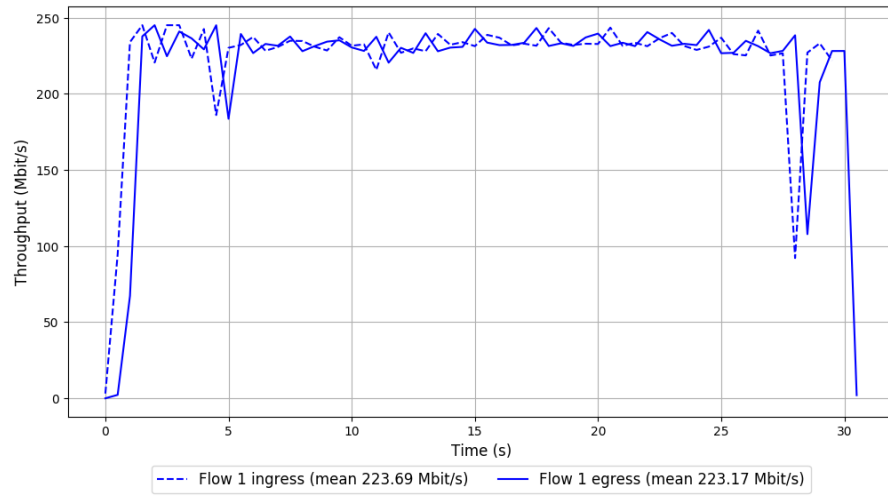
-- Flow 1:

Average throughput: 223.17 Mbit/s

95th percentile per-packet one-way delay: 55.081 ms

Loss rate: 0.12%

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



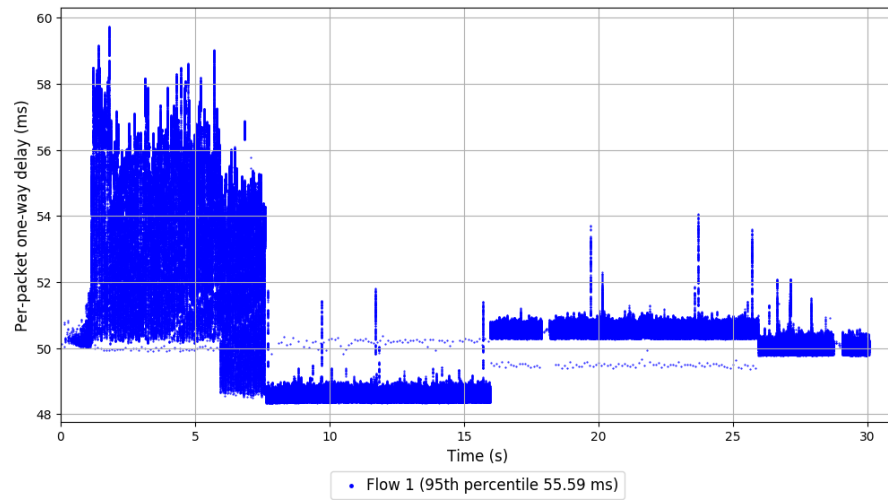
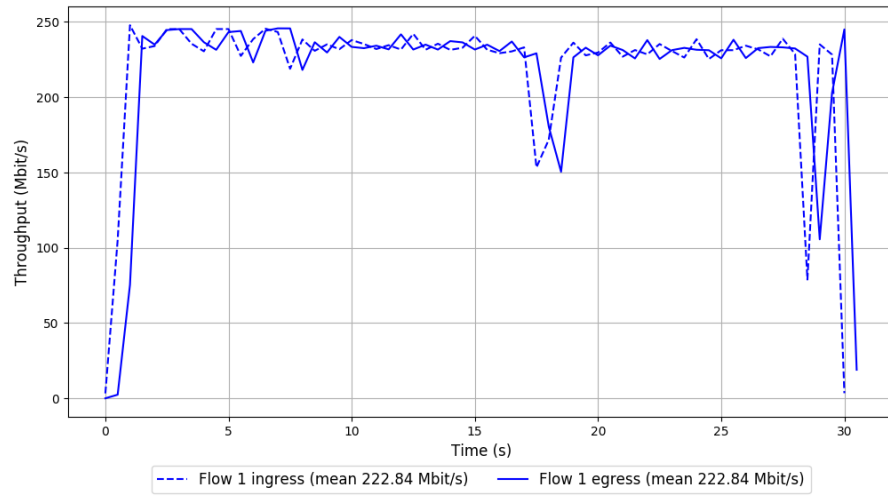
Run 9: Statistics of TCP BBR

Start at: 2018-05-26 00:31:35  
End at: 2018-05-26 00:32:05  
Local clock offset: 0.12 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 01:14:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 222.84 Mbit/s  
95th percentile per-packet one-way delay: 55.593 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.84 Mbit/s  
95th percentile per-packet one-way delay: 55.593 ms  
Loss rate: 0.00%



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



Run 10: Statistics of TCP BBR

Start at: 2018-05-26 00:52:07

End at: 2018-05-26 00:52:37

Local clock offset: -0.236 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-05-26 01:14:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.43 Mbit/s

95th percentile per-packet one-way delay: 57.548 ms

Loss rate: 0.00%

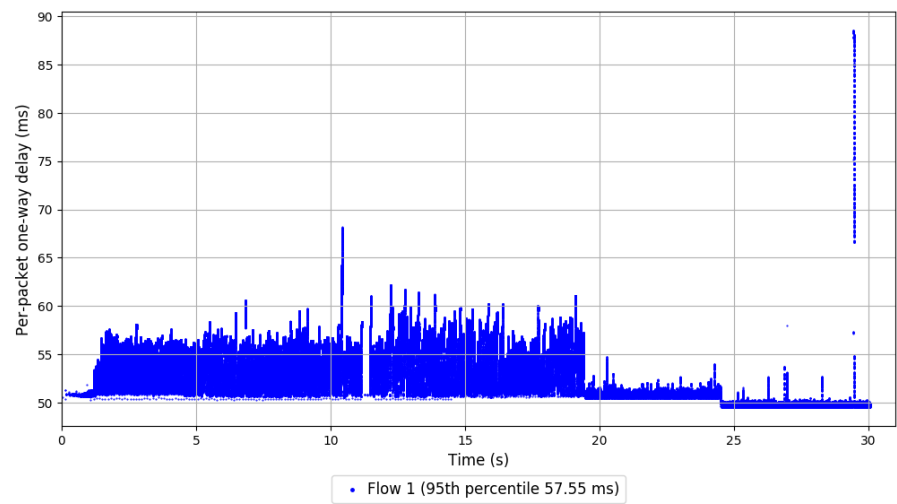
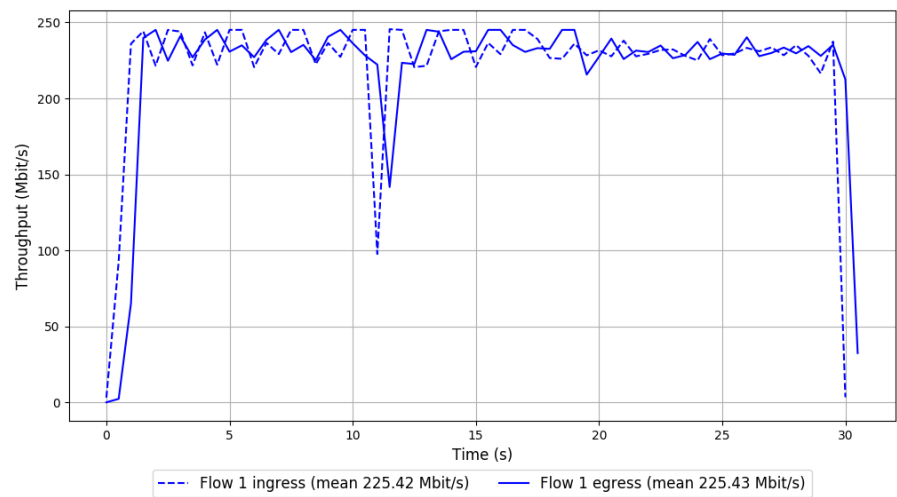
-- Flow 1:

Average throughput: 225.43 Mbit/s

95th percentile per-packet one-way delay: 57.548 ms

Loss rate: 0.00%

Run 10: Report of TCP BBR — Data Link

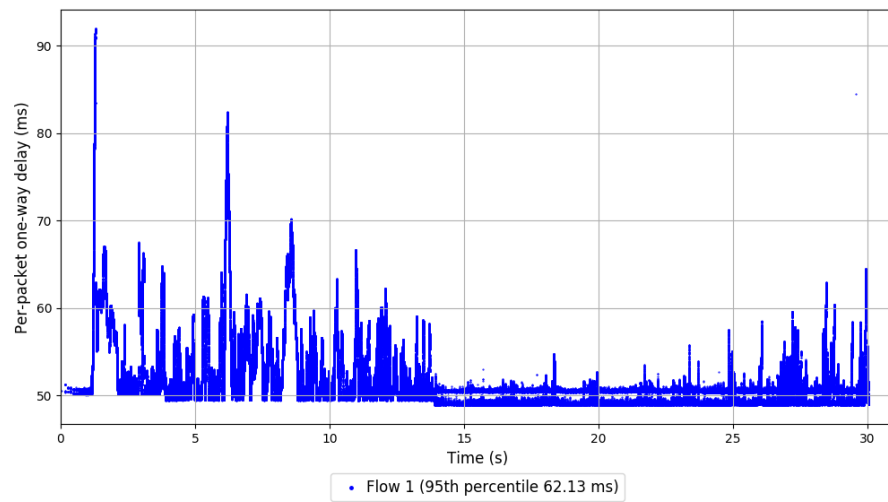
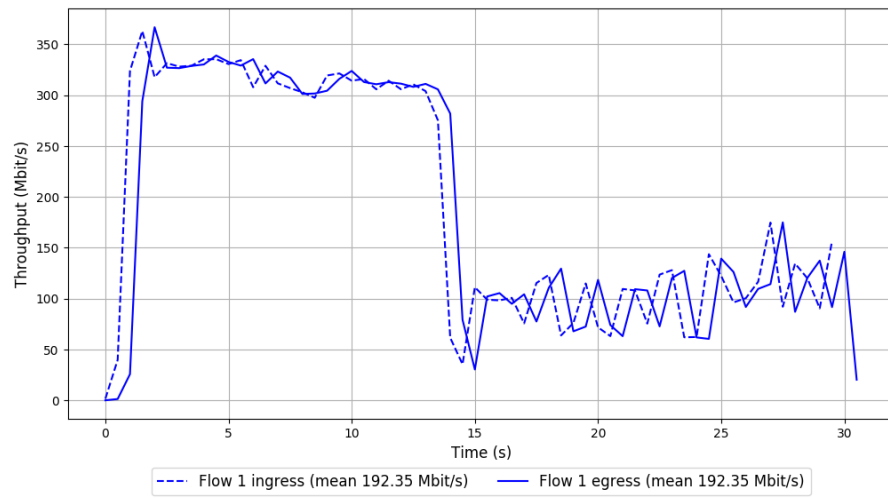


Run 1: Statistics of Copa

Start at: 2018-05-25 21:32:07  
End at: 2018-05-25 21:32:37  
Local clock offset: -0.152 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2018-05-26 01:16:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 192.35 Mbit/s  
95th percentile per-packet one-way delay: 62.130 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 192.35 Mbit/s  
95th percentile per-packet one-way delay: 62.130 ms  
Loss rate: 0.00%

### Run 1: Report of Copa — Data Link

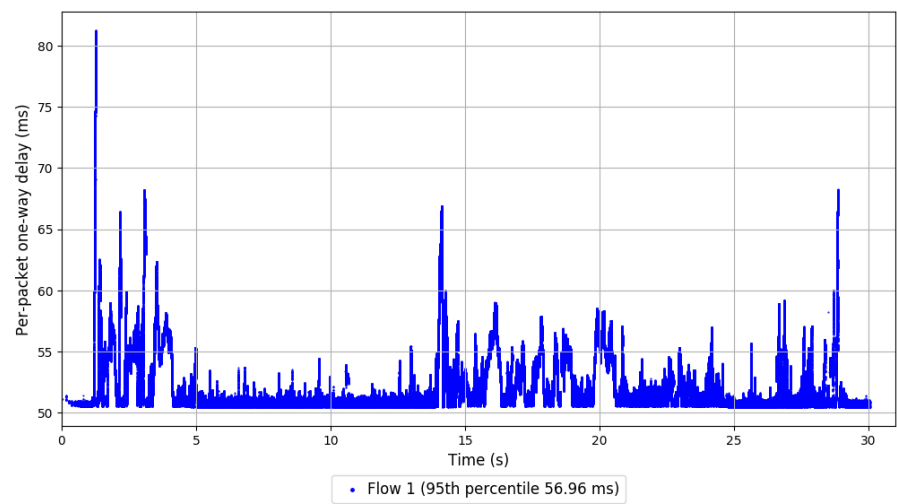
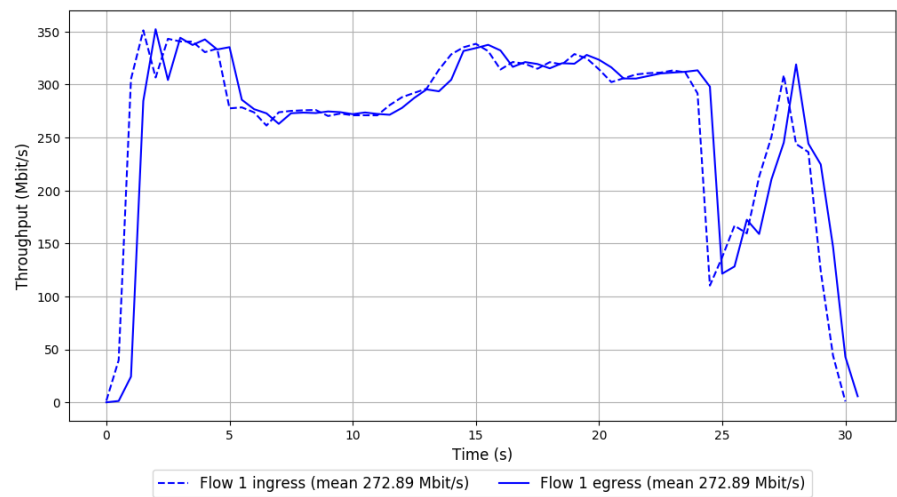


Run 2: Statistics of Copa

Start at: 2018-05-25 21:52:36  
End at: 2018-05-25 21:53:06  
Local clock offset: -0.503 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 01:19:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 272.89 Mbit/s  
95th percentile per-packet one-way delay: 56.956 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 272.89 Mbit/s  
95th percentile per-packet one-way delay: 56.956 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



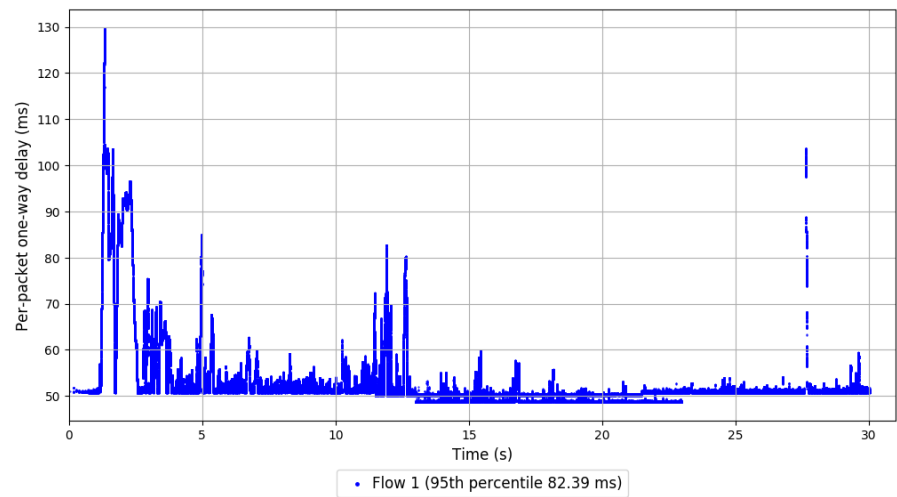
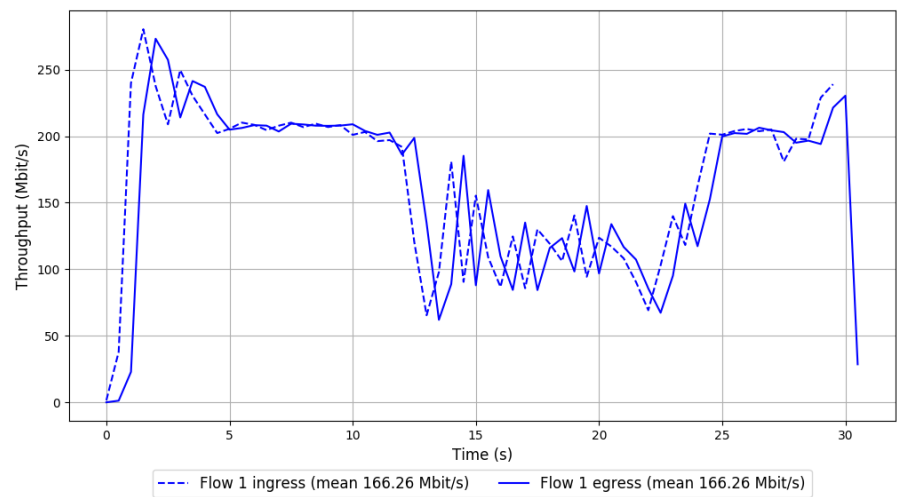
Run 3: Statistics of Copa

Start at: 2018-05-25 22:13:18  
End at: 2018-05-25 22:13:48  
Local clock offset: -0.172 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-05-26 01:19:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 166.26 Mbit/s  
95th percentile per-packet one-way delay: 82.385 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 166.26 Mbit/s  
95th percentile per-packet one-way delay: 82.385 ms  
Loss rate: 0.00%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 22:33:53

End at: 2018-05-25 22:34:23

Local clock offset: -0.211 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 01:19:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 126.52 Mbit/s

95th percentile per-packet one-way delay: 53.439 ms

Loss rate: 0.00%

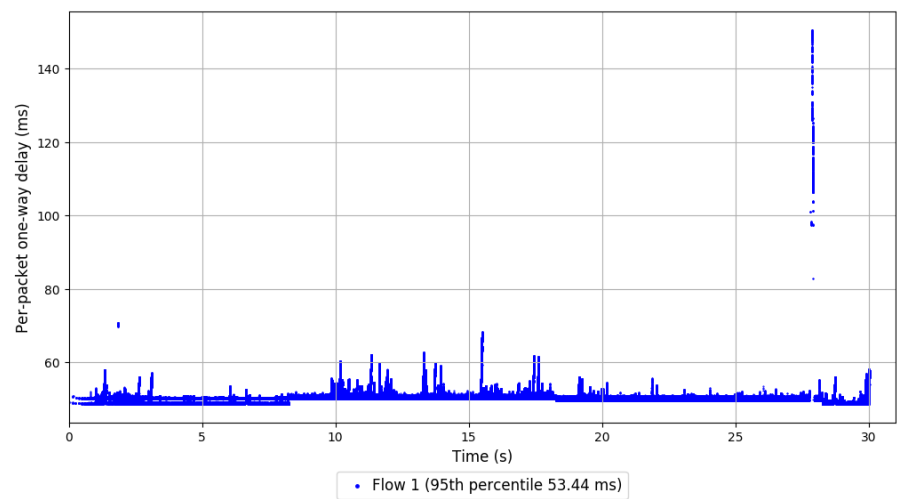
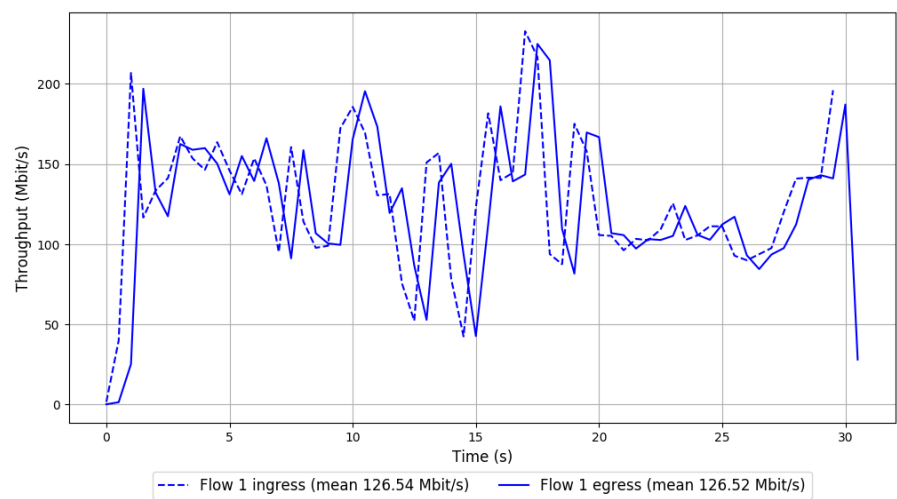
-- Flow 1:

Average throughput: 126.52 Mbit/s

95th percentile per-packet one-way delay: 53.439 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-25 22:54:33

End at: 2018-05-25 22:55:03

Local clock offset: -0.621 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-05-26 01:19:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 164.43 Mbit/s

95th percentile per-packet one-way delay: 56.188 ms

Loss rate: 0.00%

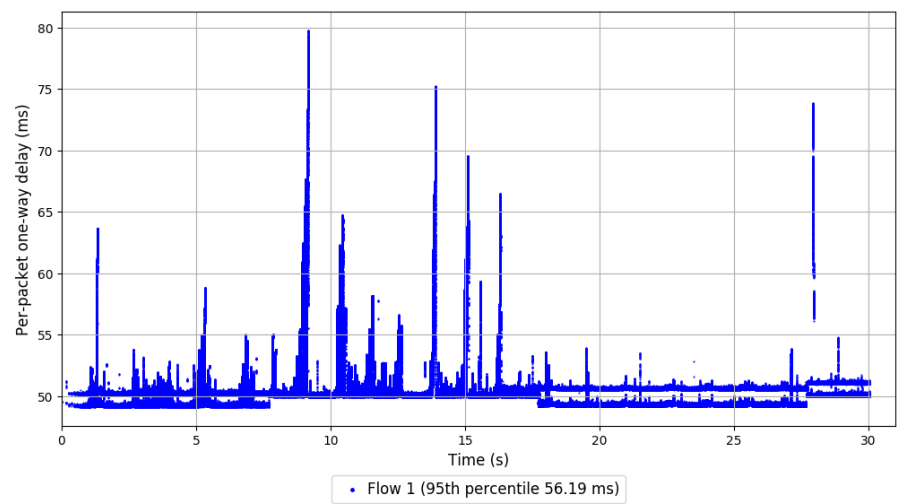
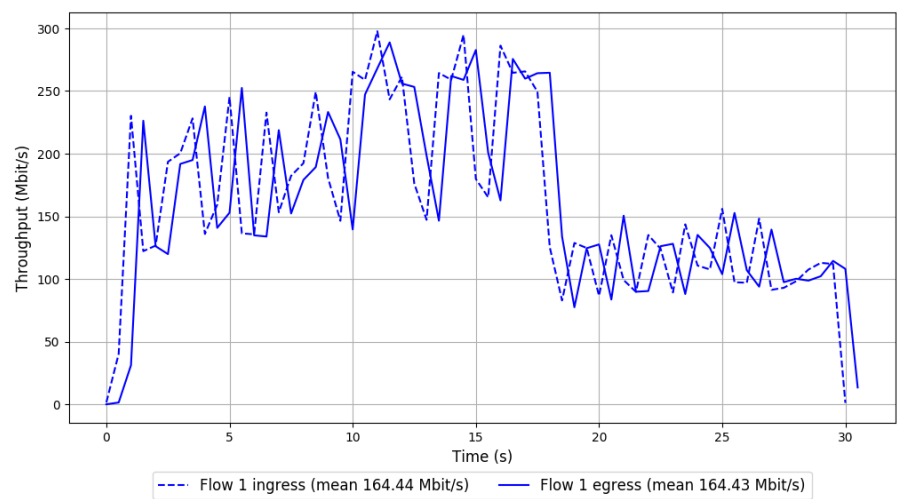
-- Flow 1:

Average throughput: 164.43 Mbit/s

95th percentile per-packet one-way delay: 56.188 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

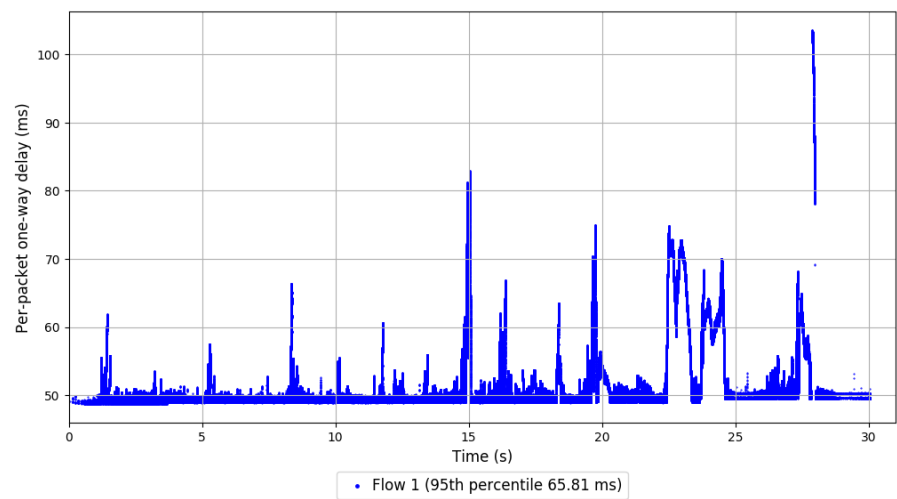
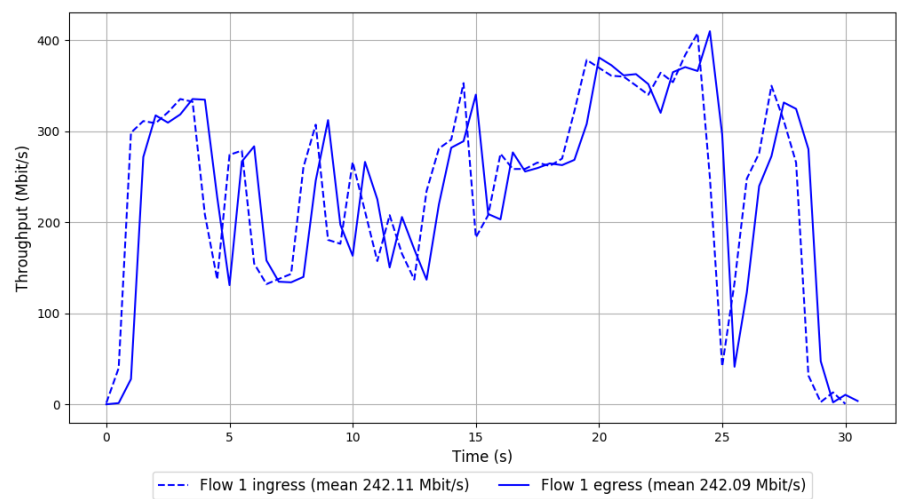


Run 6: Statistics of Copa

Start at: 2018-05-25 23:14:47  
End at: 2018-05-25 23:15:17  
Local clock offset: -0.173 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2018-05-26 01:19:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 242.09 Mbit/s  
95th percentile per-packet one-way delay: 65.813 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 242.09 Mbit/s  
95th percentile per-packet one-way delay: 65.813 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



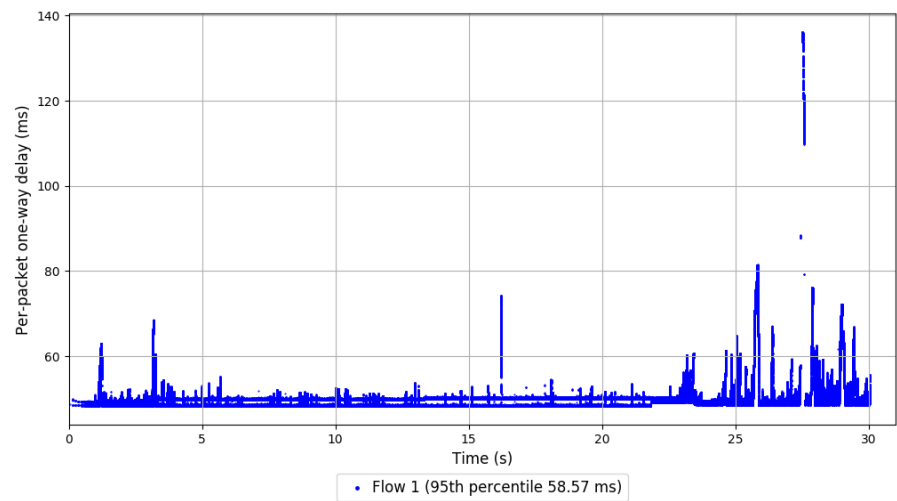
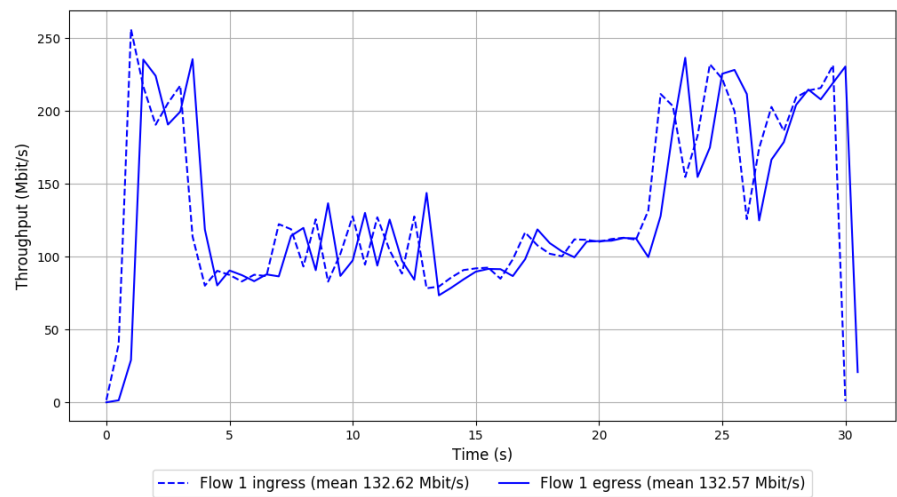
Run 7: Statistics of Copa

Start at: 2018-05-25 23:35:18  
End at: 2018-05-25 23:35:48  
Local clock offset: 0.201 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-05-26 01:19:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 132.57 Mbit/s  
95th percentile per-packet one-way delay: 58.568 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 132.57 Mbit/s  
95th percentile per-packet one-way delay: 58.568 ms  
Loss rate: 0.03%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 23:55:46

End at: 2018-05-25 23:56:16

Local clock offset: -0.191 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-05-26 01:20:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.93 Mbit/s

95th percentile per-packet one-way delay: 62.540 ms

Loss rate: 0.00%

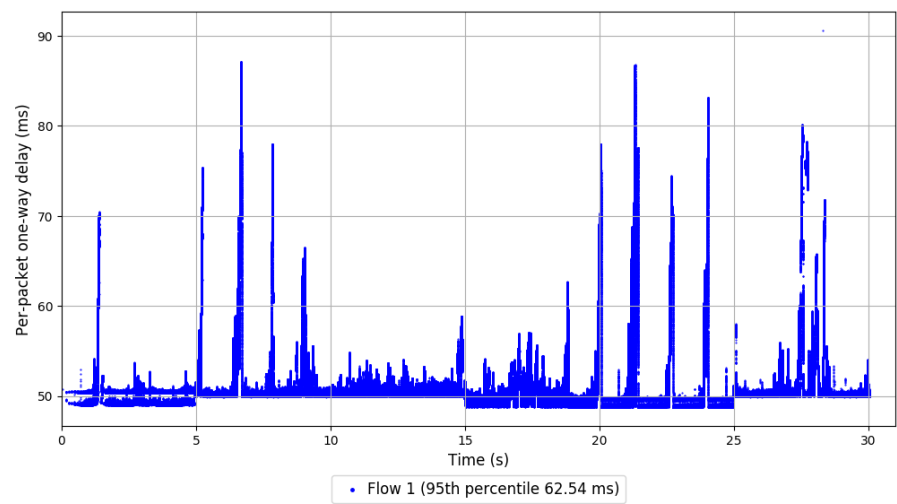
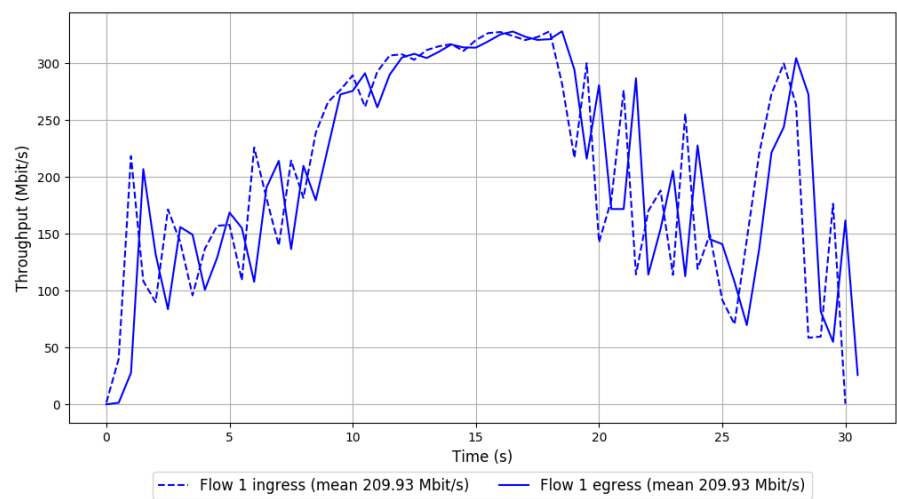
-- Flow 1:

Average throughput: 209.93 Mbit/s

95th percentile per-packet one-way delay: 62.540 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link

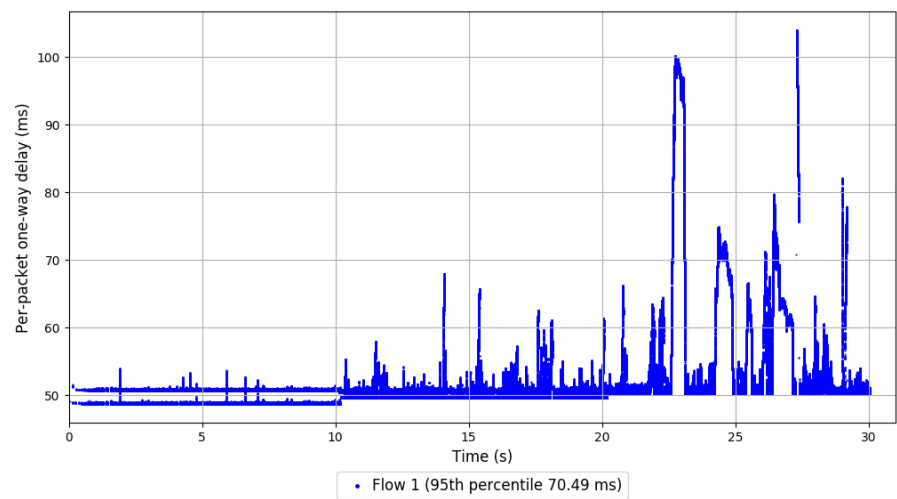
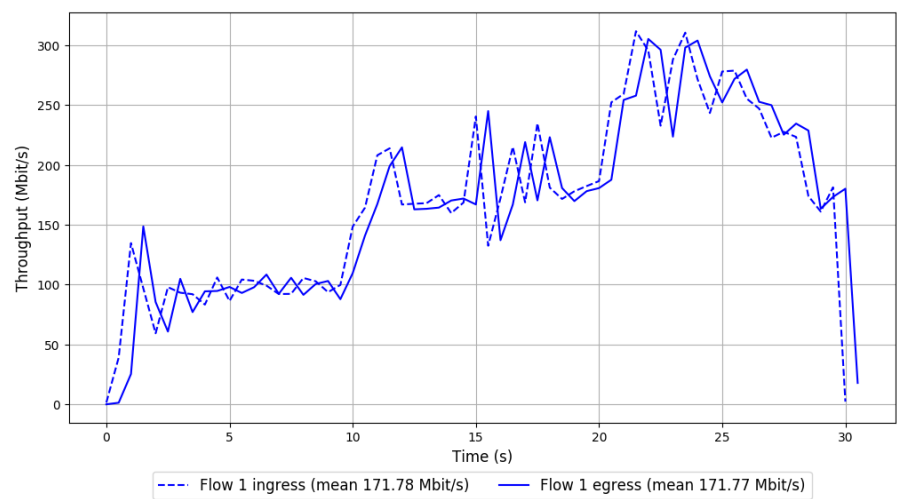


Run 9: Statistics of Copa

Start at: 2018-05-26 00:16:11  
End at: 2018-05-26 00:16:41  
Local clock offset: -0.195 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-05-26 01:20:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 171.77 Mbit/s  
95th percentile per-packet one-way delay: 70.488 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 171.77 Mbit/s  
95th percentile per-packet one-way delay: 70.488 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link



Run 10: Statistics of Copa

Start at: 2018-05-26 00:36:45

End at: 2018-05-26 00:37:15

Local clock offset: 0.131 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 01:20:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 138.10 Mbit/s

95th percentile per-packet one-way delay: 68.581 ms

Loss rate: 0.00%

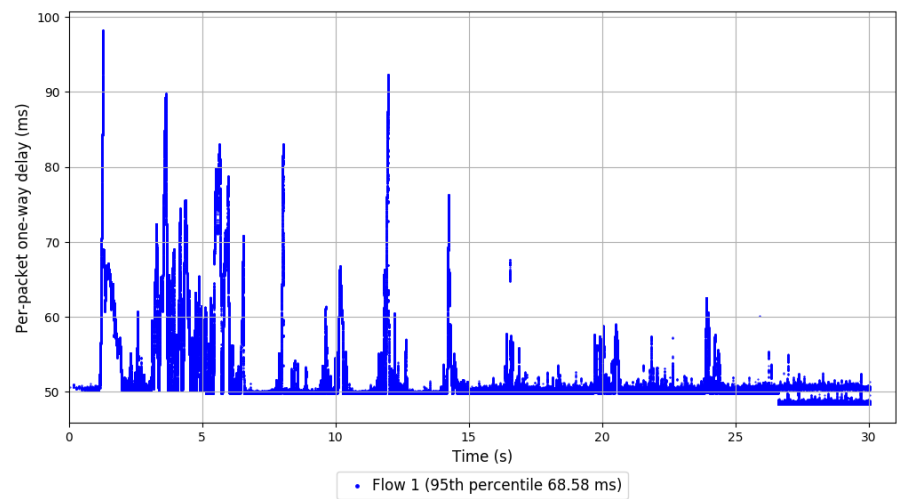
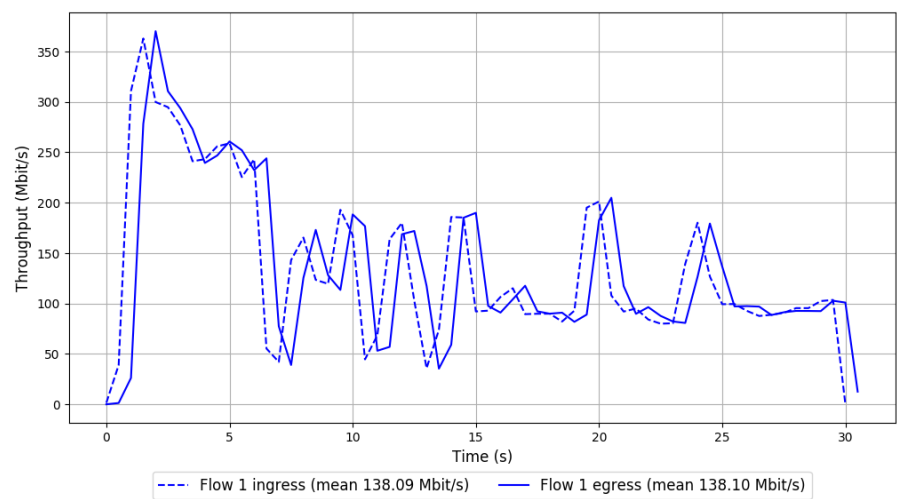
-- Flow 1:

Average throughput: 138.10 Mbit/s

95th percentile per-packet one-way delay: 68.581 ms

Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 21:41:24

End at: 2018-05-25 21:41:54

Local clock offset: -0.241 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2018-05-26 01:20:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 230.73 Mbit/s

95th percentile per-packet one-way delay: 58.147 ms

Loss rate: 0.00%

-- Flow 1:

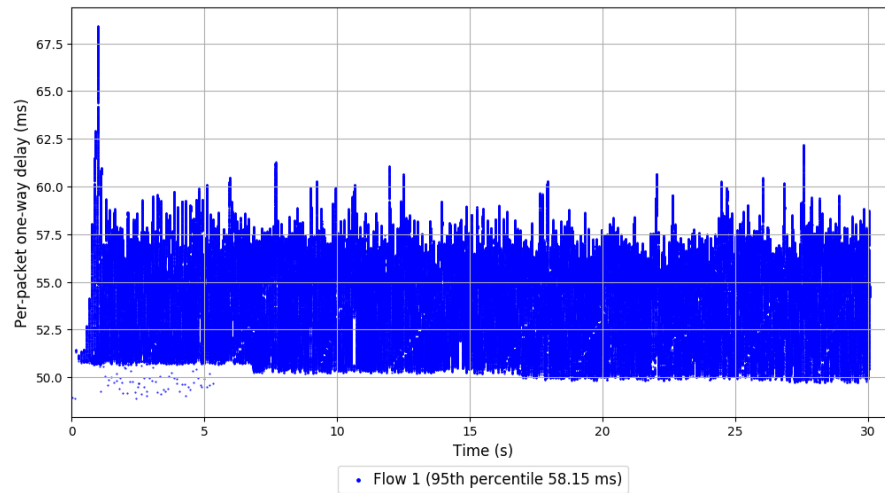
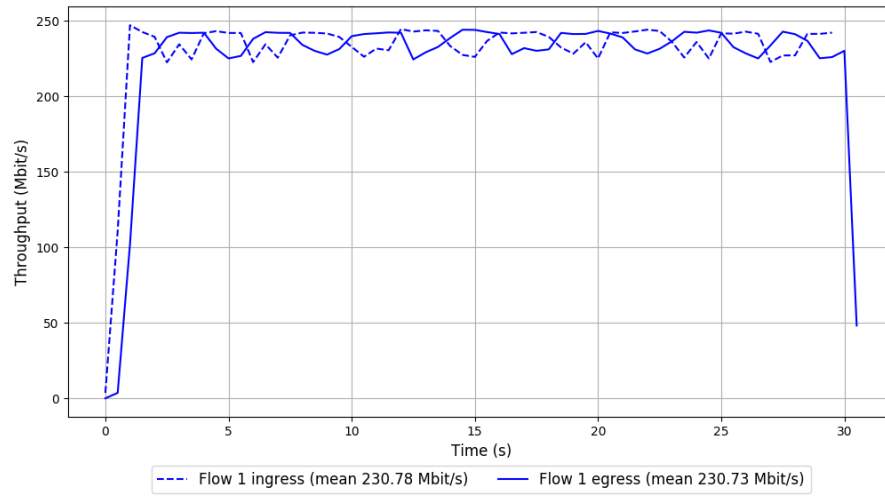
Average throughput: 230.73 Mbit/s

95th percentile per-packet one-way delay: 58.147 ms

Loss rate: 0.00%



### Run 1: Report of TCP Cubic — Data Link

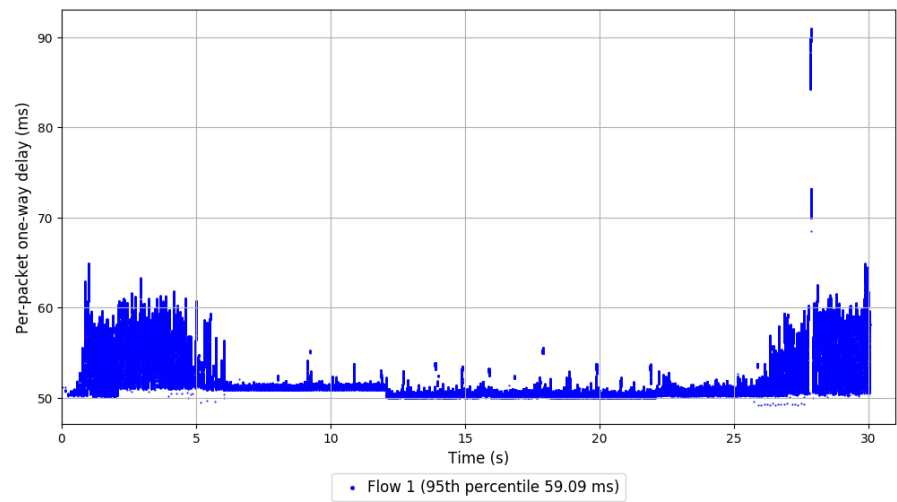
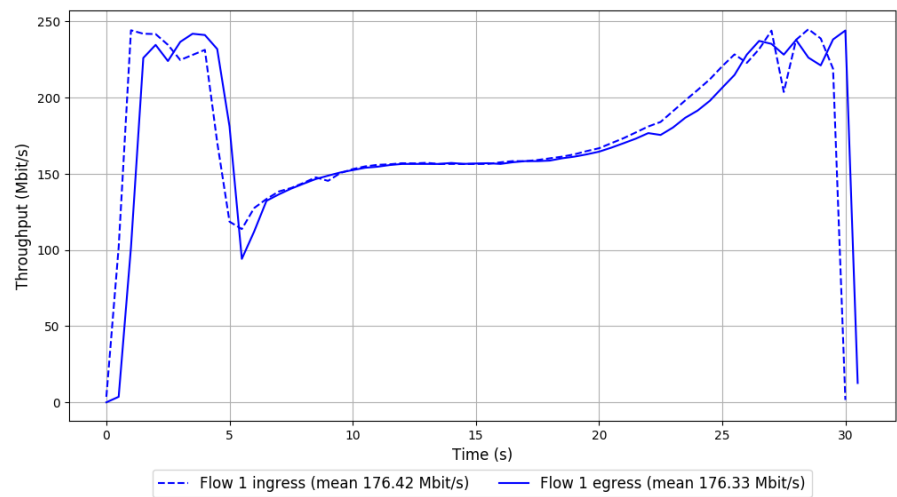


Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 22:02:09  
End at: 2018-05-25 22:02:39  
Local clock offset: -0.552 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-26 01:20:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 176.33 Mbit/s  
95th percentile per-packet one-way delay: 59.093 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 176.33 Mbit/s  
95th percentile per-packet one-way delay: 59.093 ms  
Loss rate: 0.05%

Run 2: Report of TCP Cubic — Data Link

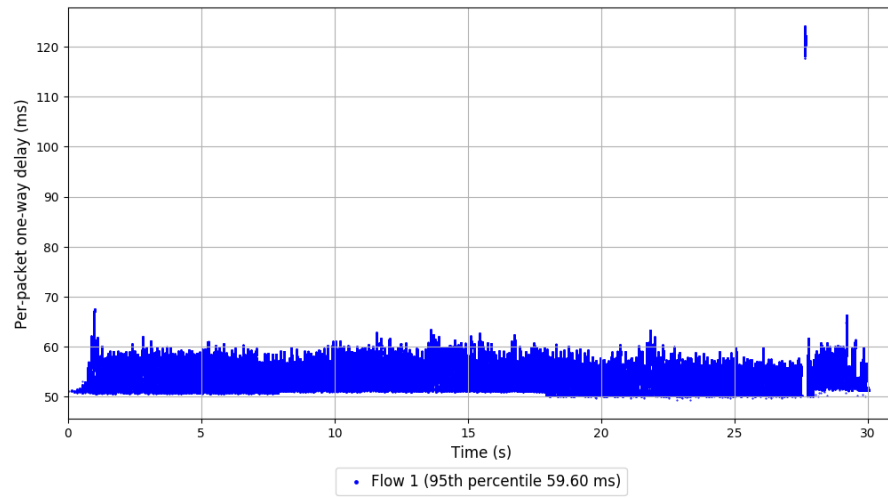
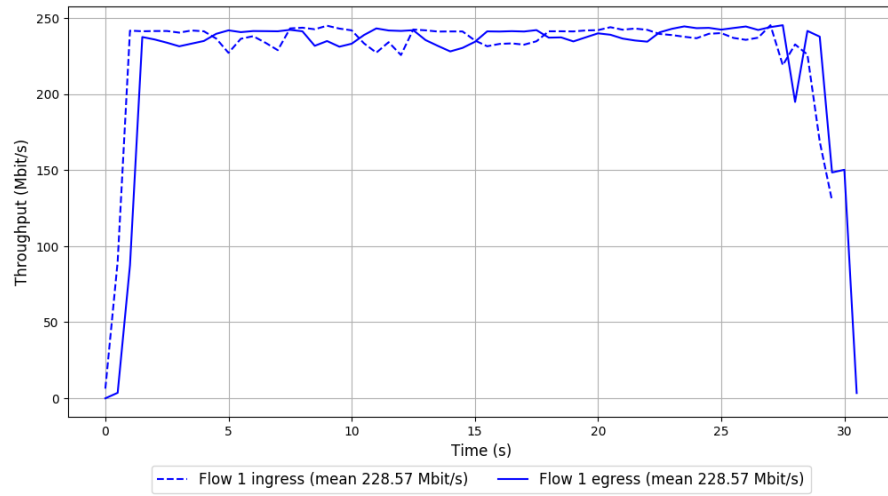


Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 22:22:43  
End at: 2018-05-25 22:23:13  
Local clock offset: -0.594 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2018-05-26 01:22:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 228.57 Mbit/s  
95th percentile per-packet one-way delay: 59.602 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 228.57 Mbit/s  
95th percentile per-packet one-way delay: 59.602 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 22:43:17

End at: 2018-05-25 22:43:47

Local clock offset: -0.189 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-05-26 01:22:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 233.62 Mbit/s

95th percentile per-packet one-way delay: 57.993 ms

Loss rate: 0.00%

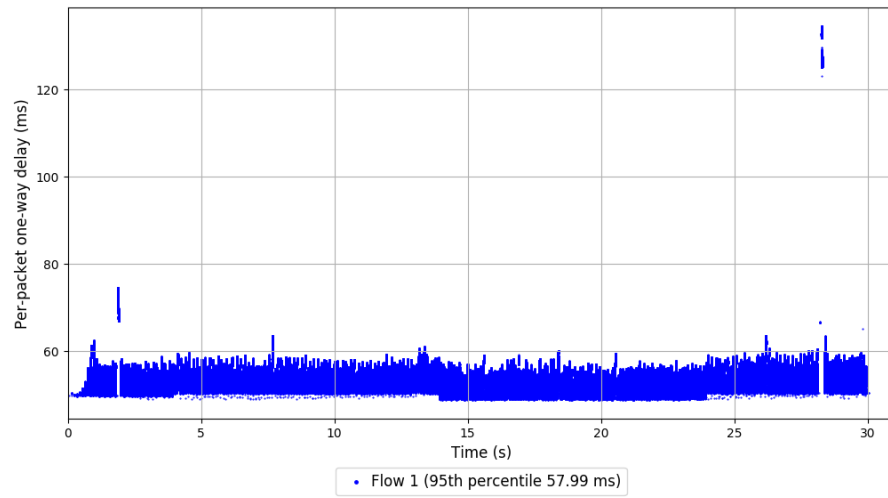
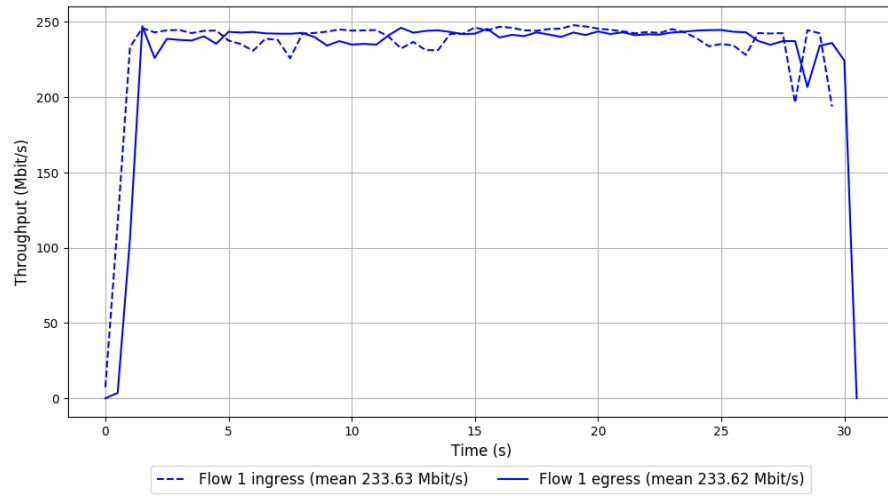
-- Flow 1:

Average throughput: 233.62 Mbit/s

95th percentile per-packet one-way delay: 57.993 ms

Loss rate: 0.00%

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



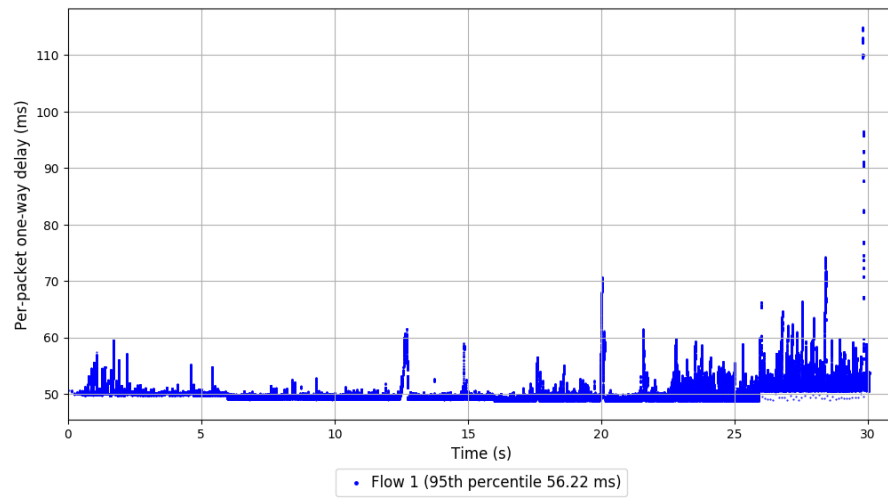
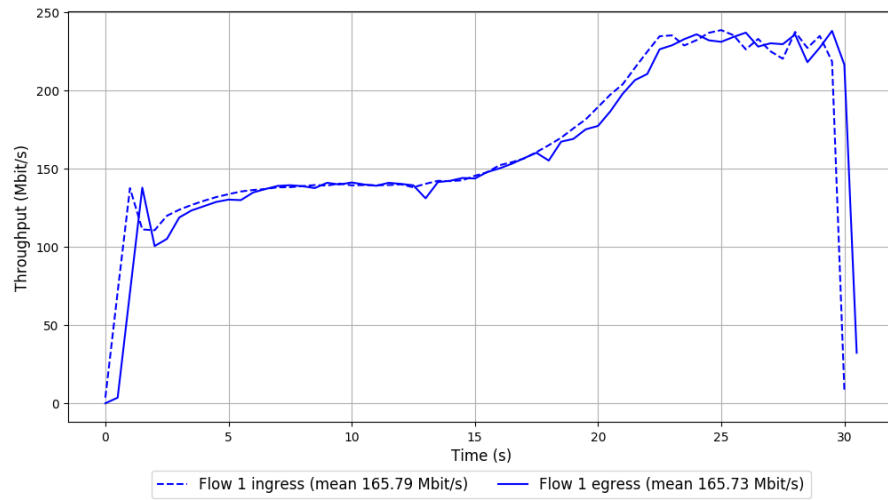
Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 23:03:45  
End at: 2018-05-25 23:04:15  
Local clock offset: -0.201 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-05-26 01:22:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 165.73 Mbit/s  
95th percentile per-packet one-way delay: 56.219 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 165.73 Mbit/s  
95th percentile per-packet one-way delay: 56.219 ms  
Loss rate: 0.03%



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

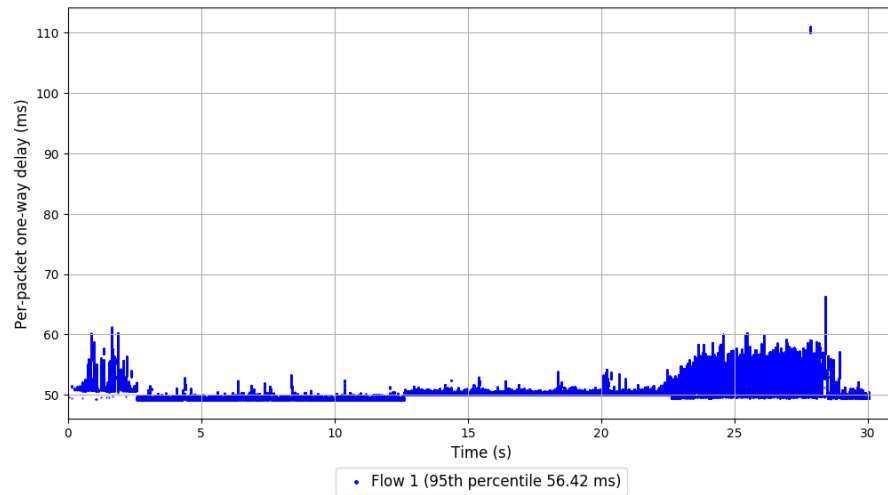
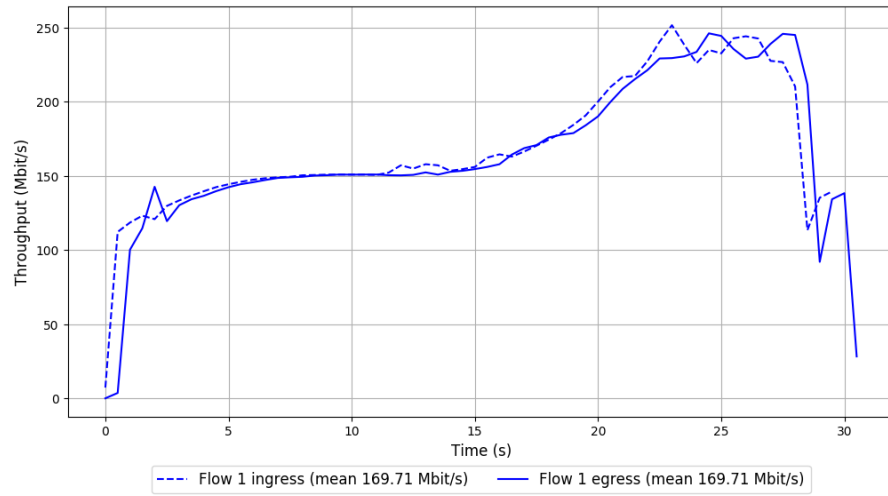


Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 23:24:09  
End at: 2018-05-25 23:24:39  
Local clock offset: -0.567 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-05-26 01:22:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 169.71 Mbit/s  
95th percentile per-packet one-way delay: 56.418 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 169.71 Mbit/s  
95th percentile per-packet one-way delay: 56.418 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 23:44:37

End at: 2018-05-25 23:45:07

Local clock offset: -0.184 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-05-26 01:22:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 188.02 Mbit/s

95th percentile per-packet one-way delay: 58.782 ms

Loss rate: 0.00%

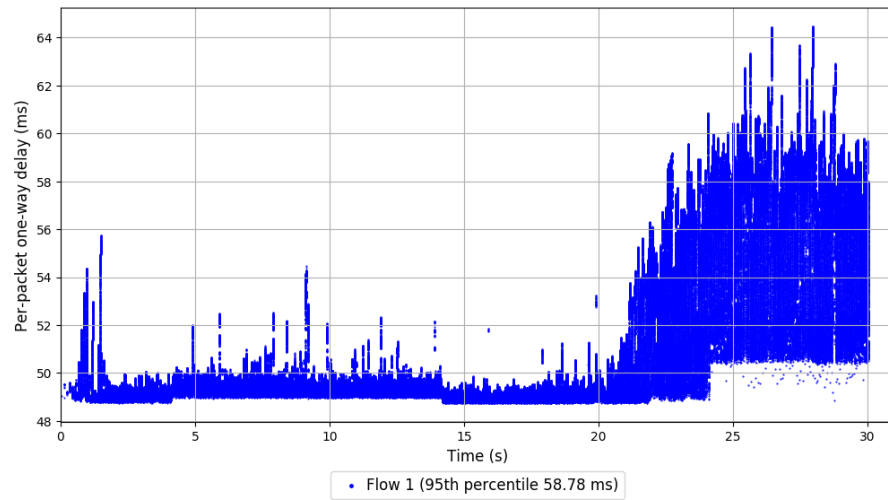
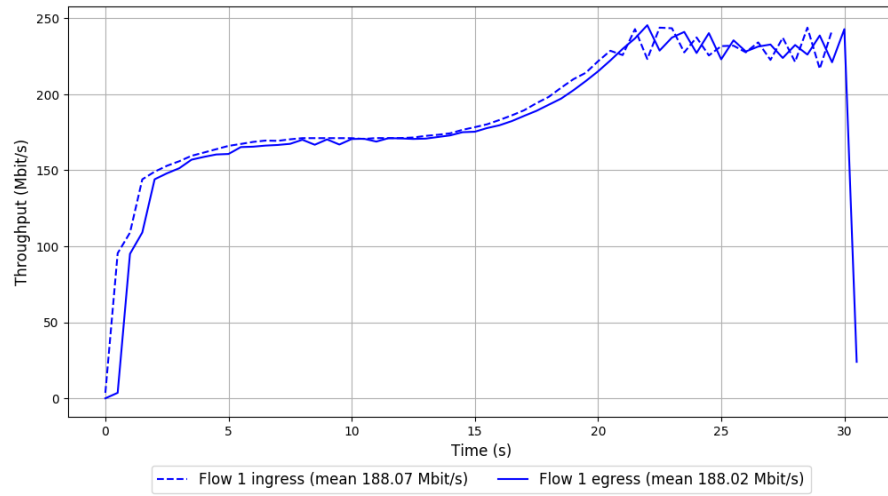
-- Flow 1:

Average throughput: 188.02 Mbit/s

95th percentile per-packet one-way delay: 58.782 ms

Loss rate: 0.00%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 00:05:02

End at: 2018-05-26 00:05:32

Local clock offset: -0.191 ms

Remote clock offset: 0.013 ms

# Below is generated by plot.py at 2018-05-26 01:22:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 152.86 Mbit/s

95th percentile per-packet one-way delay: 54.547 ms

Loss rate: 0.00%

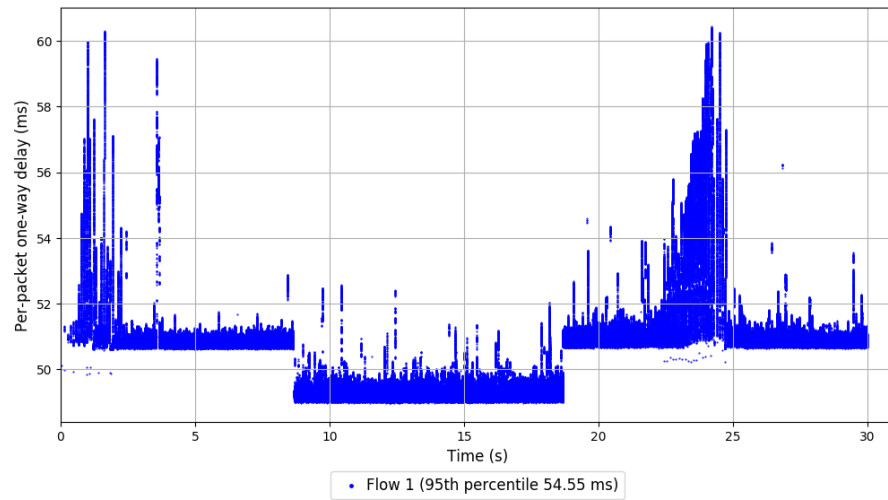
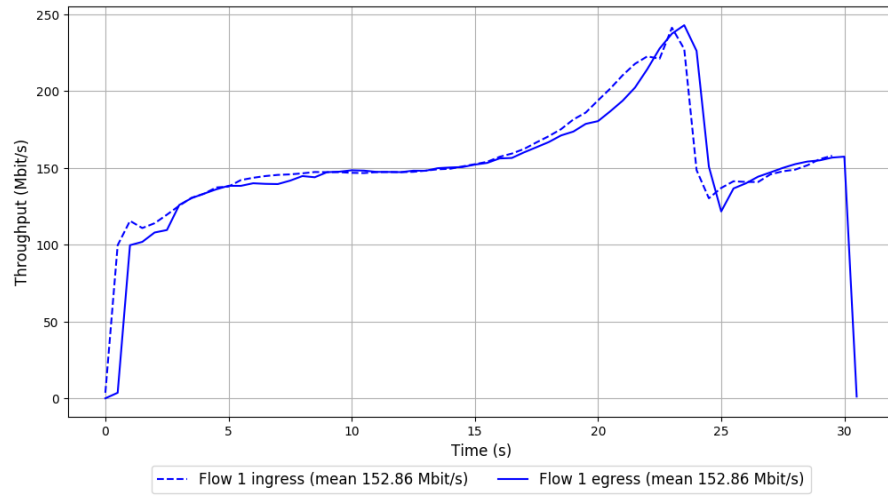
-- Flow 1:

Average throughput: 152.86 Mbit/s

95th percentile per-packet one-way delay: 54.547 ms

Loss rate: 0.00%

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



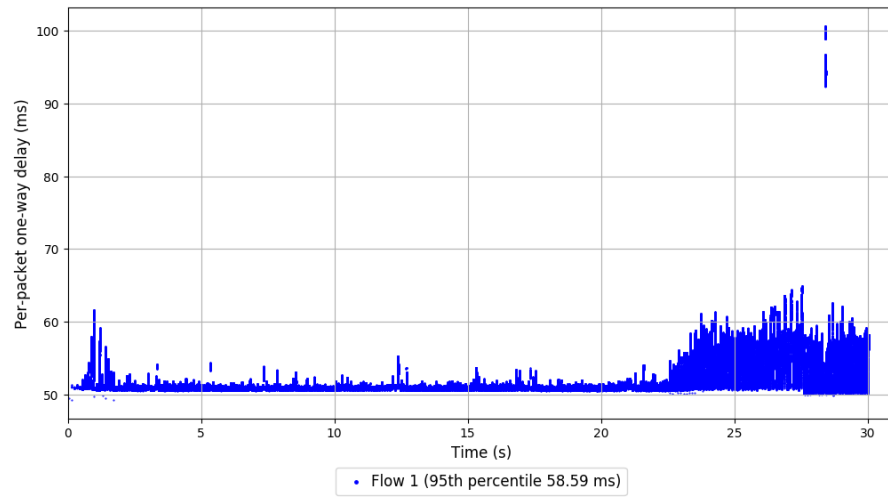
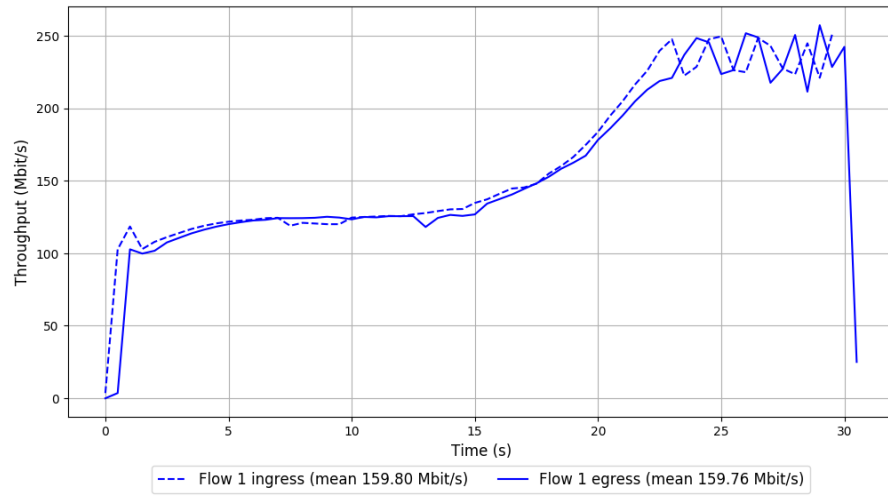
Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 00:25:34  
End at: 2018-05-26 00:26:04  
Local clock offset: -0.579 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 01:22:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 159.76 Mbit/s  
95th percentile per-packet one-way delay: 58.585 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 159.76 Mbit/s  
95th percentile per-packet one-way delay: 58.585 ms  
Loss rate: 0.00%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 00:46:05

End at: 2018-05-26 00:46:35

Local clock offset: -0.216 ms

Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2018-05-26 01:23:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 159.29 Mbit/s

95th percentile per-packet one-way delay: 58.242 ms

Loss rate: 0.00%

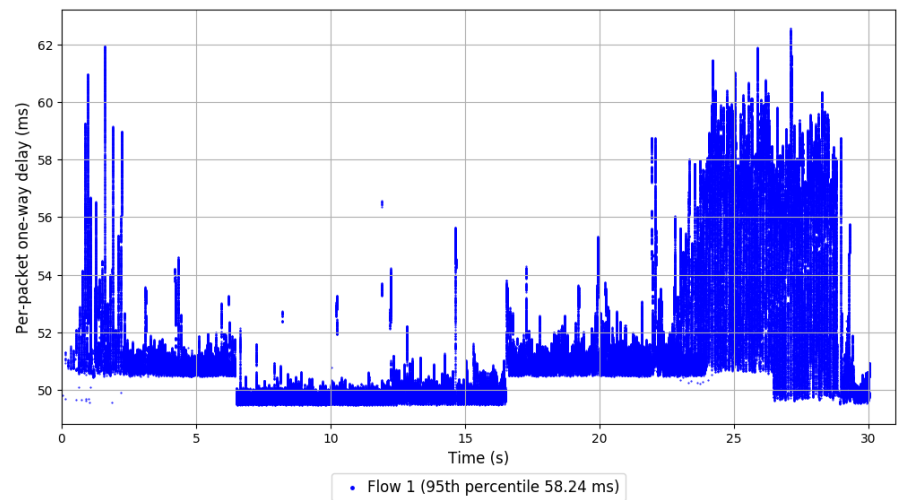
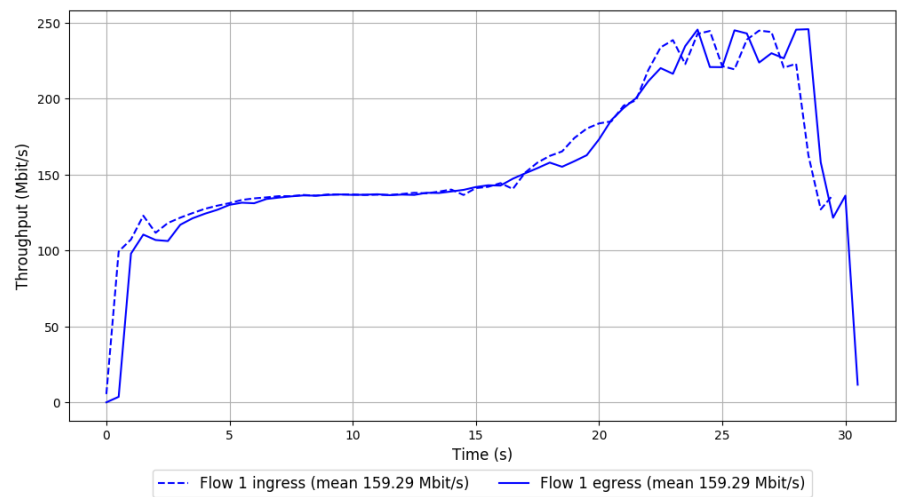
-- Flow 1:

Average throughput: 159.29 Mbit/s

95th percentile per-packet one-way delay: 58.242 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link

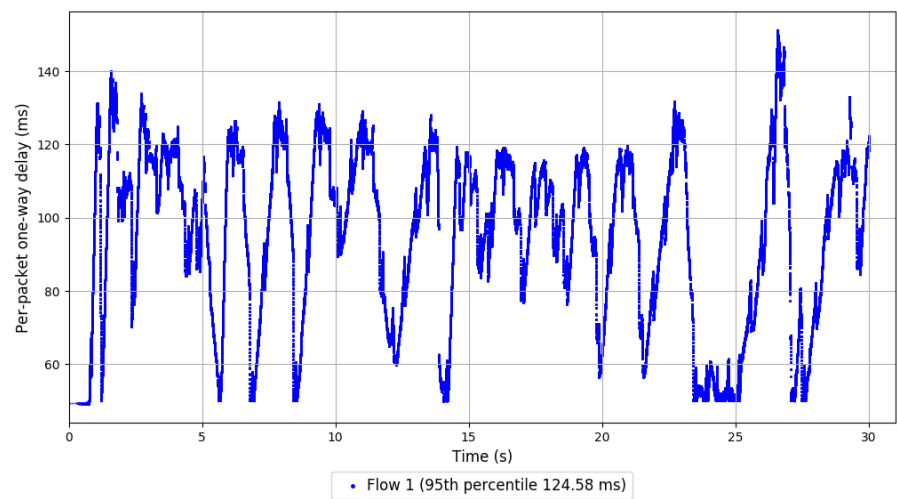
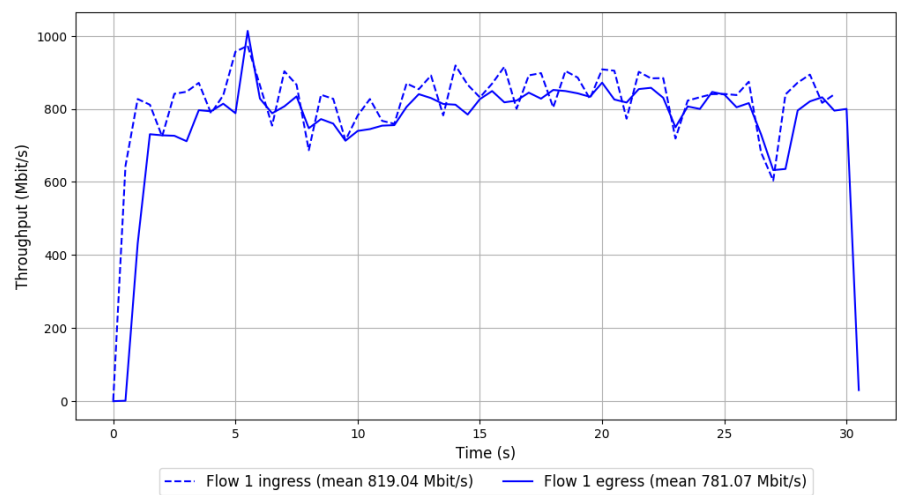


Run 1: Statistics of FillP

Start at: 2018-05-25 21:39:49  
End at: 2018-05-25 21:40:19  
Local clock offset: 0.163 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 01:37:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 781.07 Mbit/s  
95th percentile per-packet one-way delay: 124.577 ms  
Loss rate: 4.63%  
-- Flow 1:  
Average throughput: 781.07 Mbit/s  
95th percentile per-packet one-way delay: 124.577 ms  
Loss rate: 4.63%

Run 1: Report of FillP — Data Link

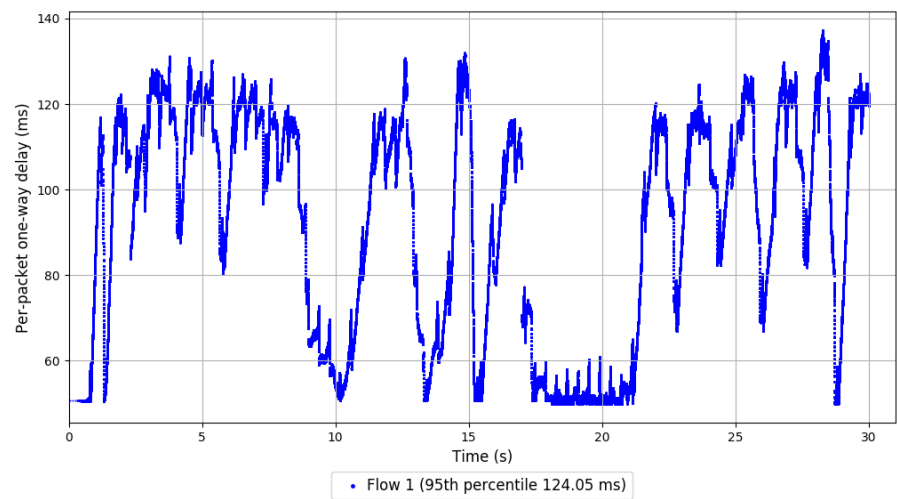
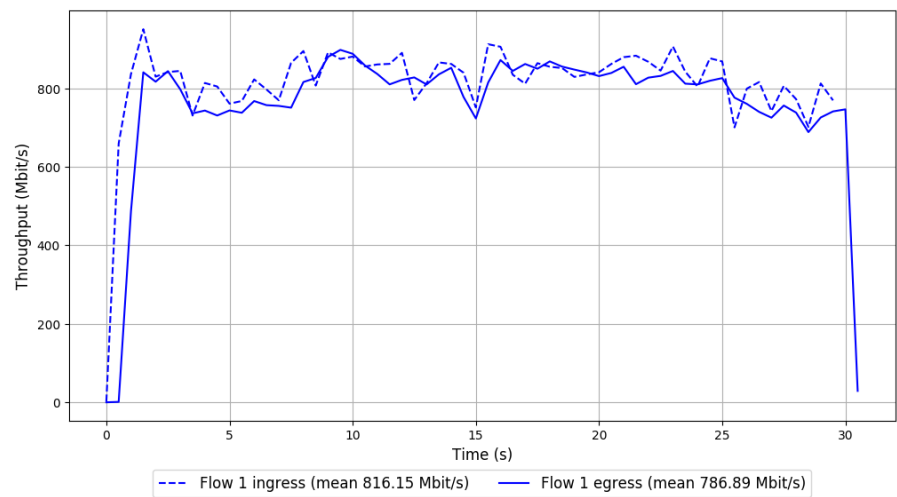


Run 2: Statistics of FillP

Start at: 2018-05-25 22:00:33  
End at: 2018-05-25 22:01:03  
Local clock offset: -0.532 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2018-05-26 01:37:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 786.89 Mbit/s  
95th percentile per-packet one-way delay: 124.046 ms  
Loss rate: 3.59%  
-- Flow 1:  
Average throughput: 786.89 Mbit/s  
95th percentile per-packet one-way delay: 124.046 ms  
Loss rate: 3.59%

Run 2: Report of FillP — Data Link



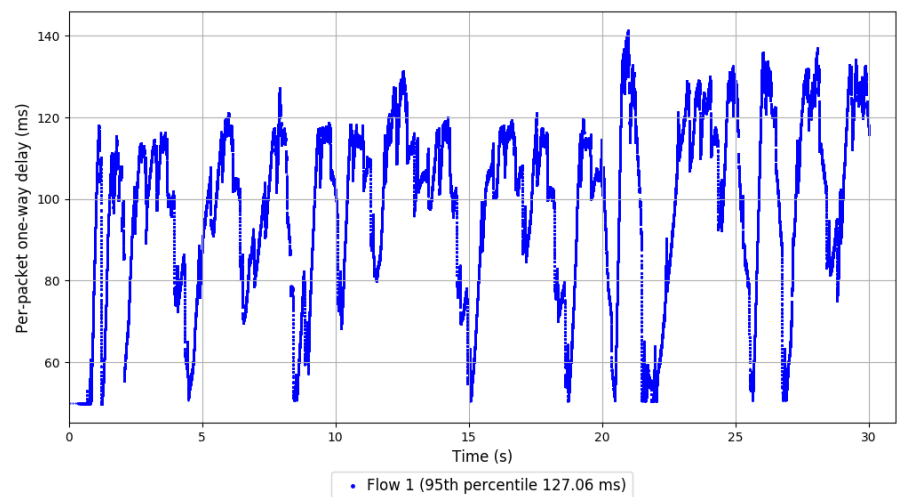
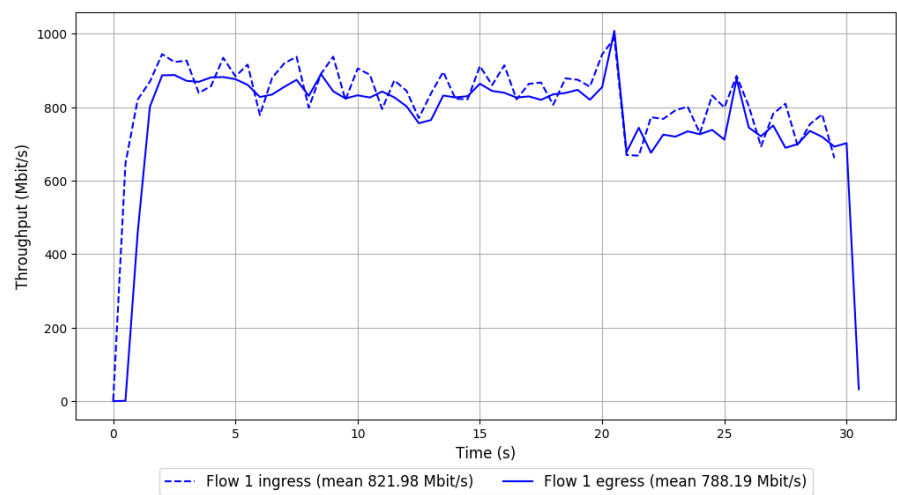
Run 3: Statistics of FillP

Start at: 2018-05-25 22:21:08  
End at: 2018-05-25 22:21:38  
Local clock offset: -0.393 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-05-26 01:37:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 788.19 Mbit/s  
95th percentile per-packet one-way delay: 127.058 ms  
Loss rate: 4.11%  
-- Flow 1:  
Average throughput: 788.19 Mbit/s  
95th percentile per-packet one-way delay: 127.058 ms  
Loss rate: 4.11%



Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-25 22:41:42

End at: 2018-05-25 22:42:12

Local clock offset: -0.212 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 01:37:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 742.74 Mbit/s

95th percentile per-packet one-way delay: 134.069 ms

Loss rate: 5.88%

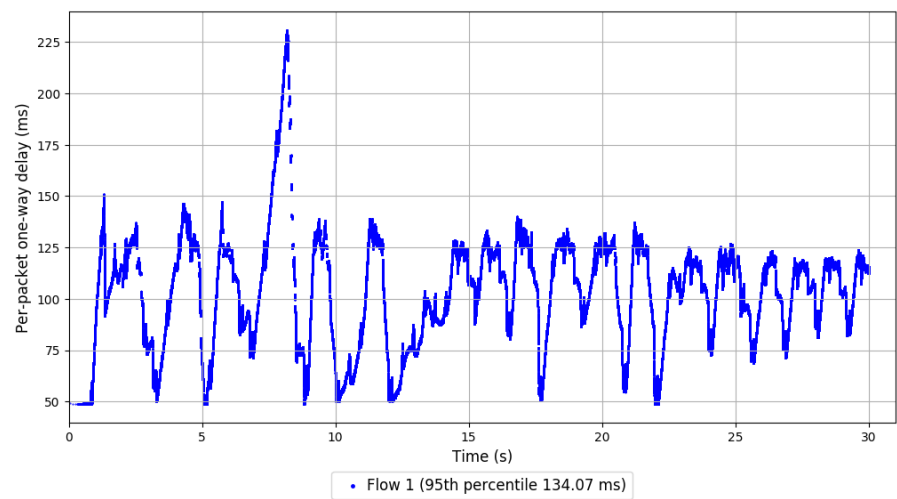
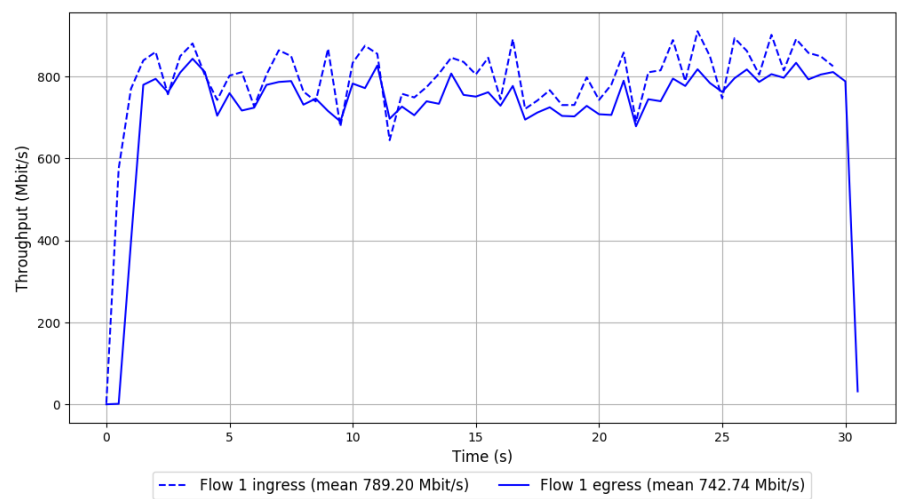
-- Flow 1:

Average throughput: 742.74 Mbit/s

95th percentile per-packet one-way delay: 134.069 ms

Loss rate: 5.88%

Run 4: Report of FillP — Data Link

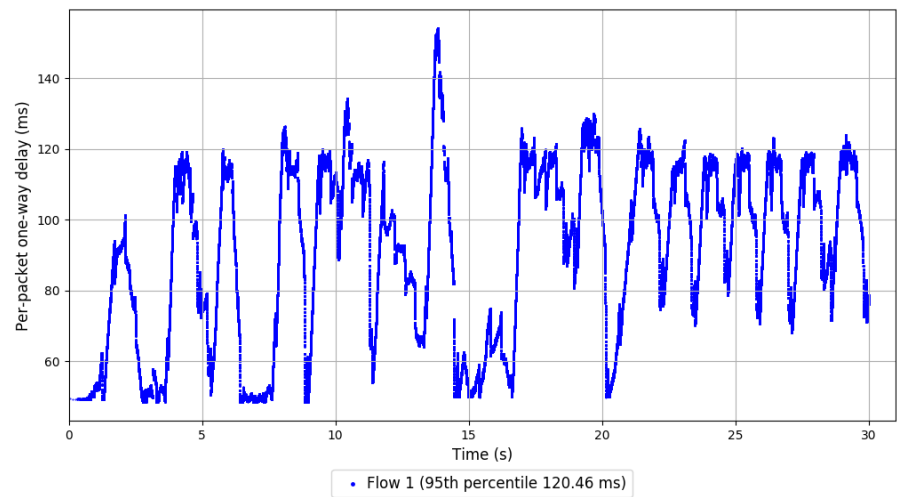
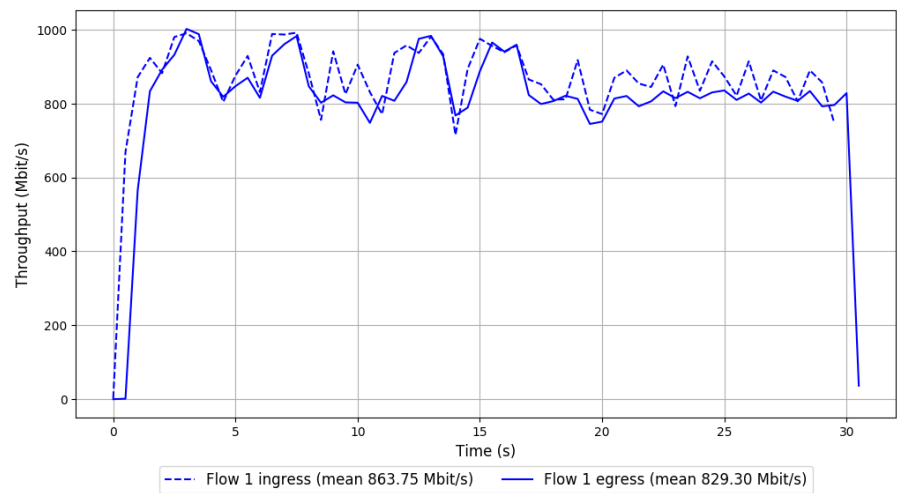


Run 5: Statistics of FillP

Start at: 2018-05-25 23:02:09  
End at: 2018-05-25 23:02:39  
Local clock offset: 0.14 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-05-26 01:38:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 829.30 Mbit/s  
95th percentile per-packet one-way delay: 120.464 ms  
Loss rate: 3.99%  
-- Flow 1:  
Average throughput: 829.30 Mbit/s  
95th percentile per-packet one-way delay: 120.464 ms  
Loss rate: 3.99%

Run 5: Report of FillP — Data Link

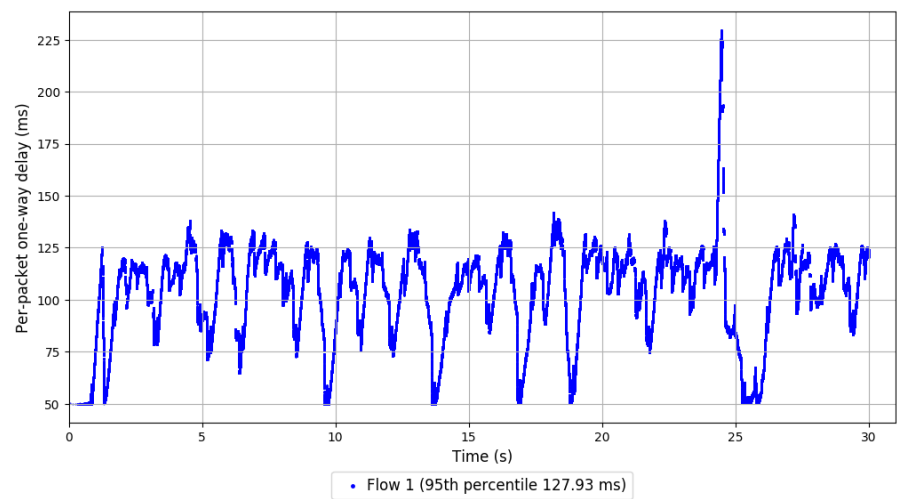
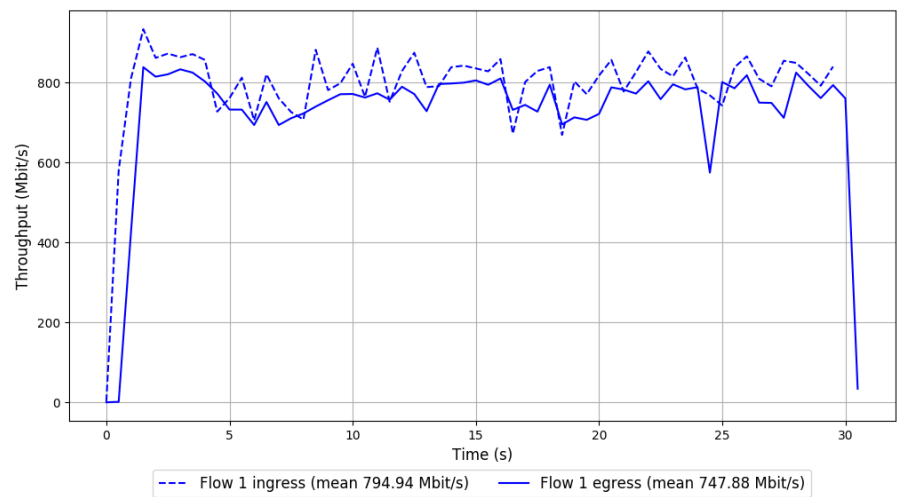


Run 6: Statistics of FillP

Start at: 2018-05-25 23:22:35  
End at: 2018-05-25 23:23:05  
Local clock offset: -0.548 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-26 01:38:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 747.88 Mbit/s  
95th percentile per-packet one-way delay: 127.927 ms  
Loss rate: 5.92%  
-- Flow 1:  
Average throughput: 747.88 Mbit/s  
95th percentile per-packet one-way delay: 127.927 ms  
Loss rate: 5.92%

Run 6: Report of FillP — Data Link



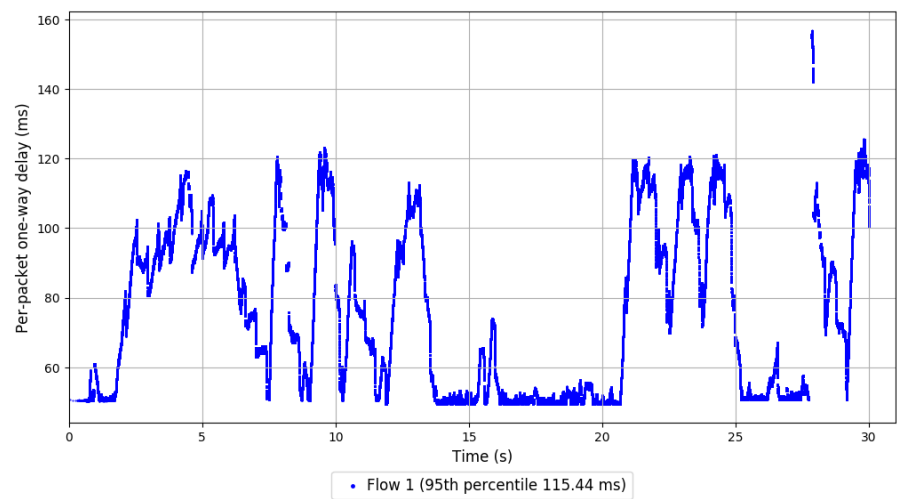
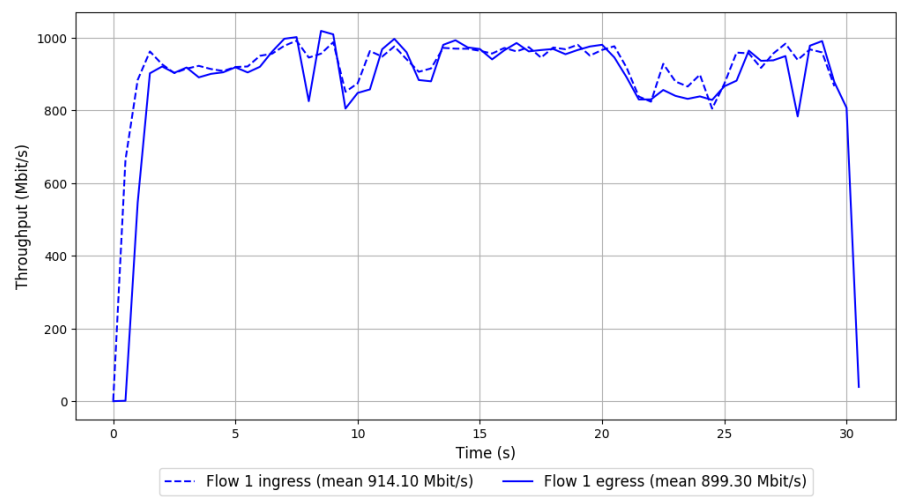
Run 7: Statistics of FillP

Start at: 2018-05-25 23:42:58  
End at: 2018-05-25 23:43:28  
Local clock offset: -0.16 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-26 01:39:59  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 899.30 Mbit/s  
95th percentile per-packet one-way delay: 115.444 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 899.30 Mbit/s  
95th percentile per-packet one-way delay: 115.444 ms  
Loss rate: 1.62%



Run 7: Report of FillP — Data Link



Run 8: Statistics of FillP

Start at: 2018-05-26 00:03:25

End at: 2018-05-26 00:03:55

Local clock offset: -0.173 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-26 01:40:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 866.88 Mbit/s

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

Loss rate: 1.49%

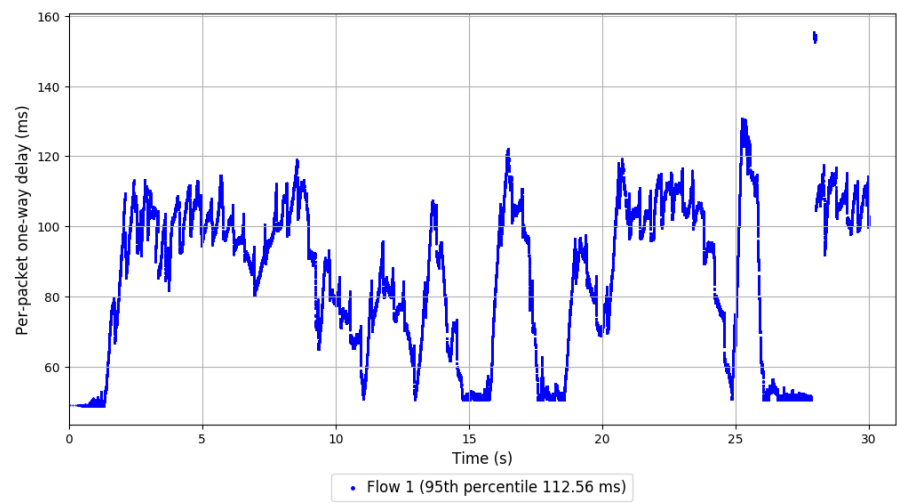
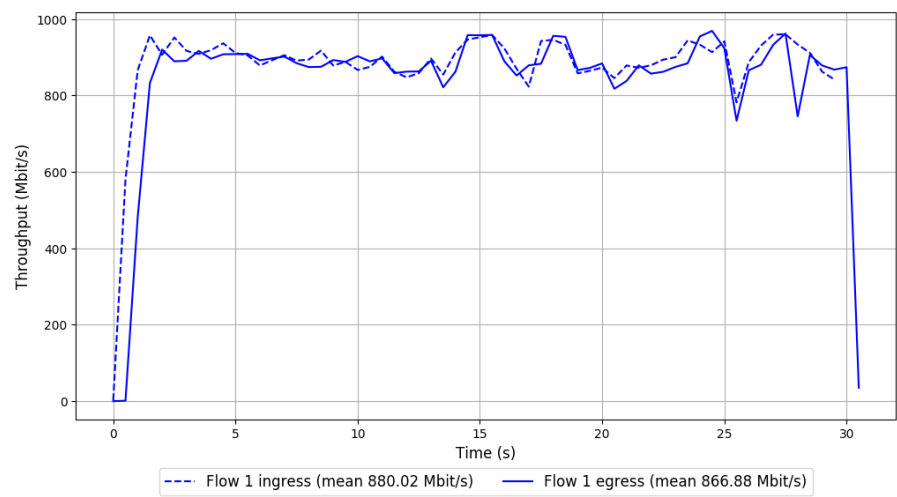
-- Flow 1:

Average throughput: 866.88 Mbit/s

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

Loss rate: 1.49%

Run 8: Report of FillP — Data Link

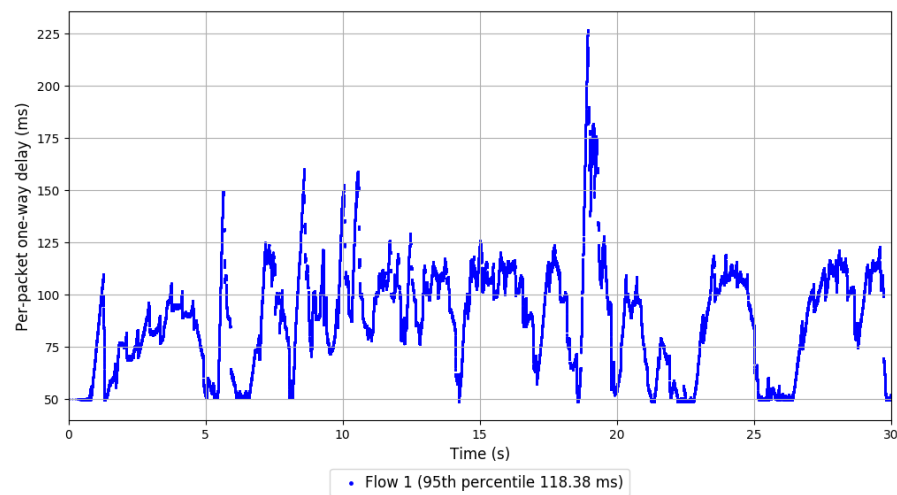
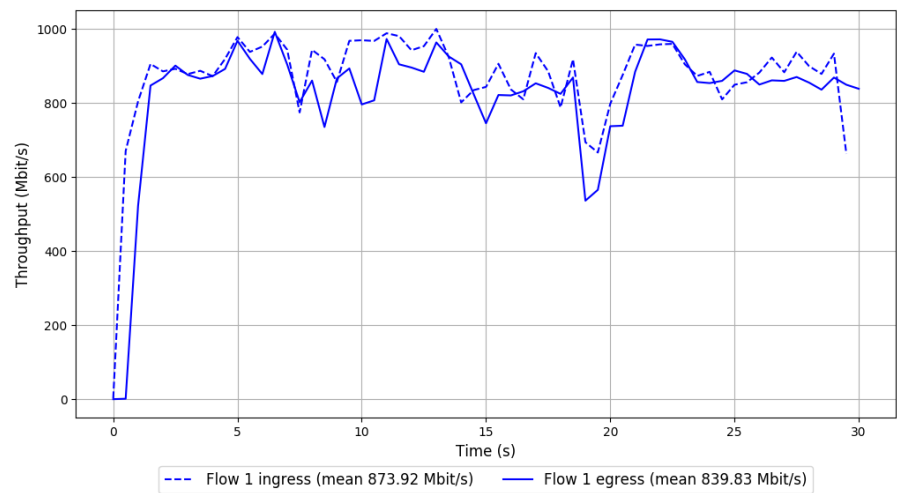


Run 9: Statistics of FillP

Start at: 2018-05-26 00:23:56  
End at: 2018-05-26 00:24:26  
Local clock offset: -0.275 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 839.83 Mbit/s  
95th percentile per-packet one-way delay: 118.377 ms  
Loss rate: 3.90%  
-- Flow 1:  
Average throughput: 839.83 Mbit/s  
95th percentile per-packet one-way delay: 118.377 ms  
Loss rate: 3.90%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-26 00:44:28

End at: 2018-05-26 00:44:59

Local clock offset: -0.226 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 787.63 Mbit/s

95th percentile per-packet one-way delay: 123.245 ms

Loss rate: 4.28%

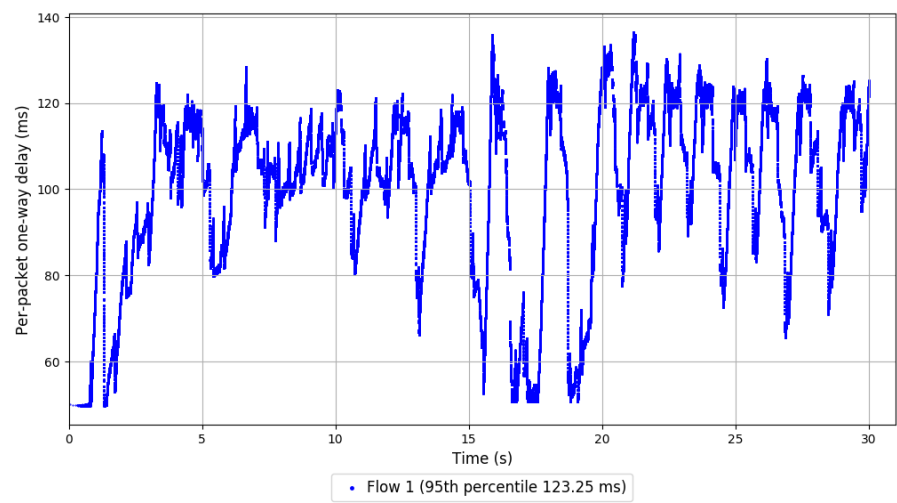
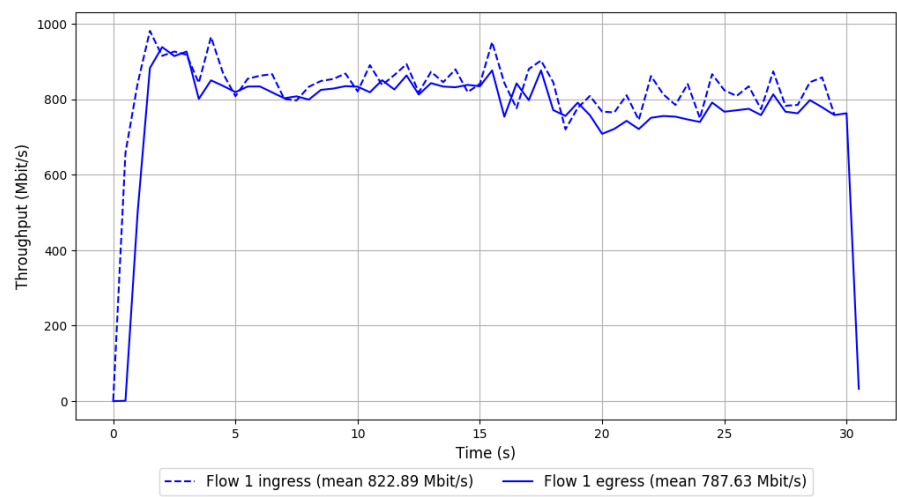
-- Flow 1:

Average throughput: 787.63 Mbit/s

95th percentile per-packet one-way delay: 123.245 ms

Loss rate: 4.28%

Run 10: Report of FillP — Data Link



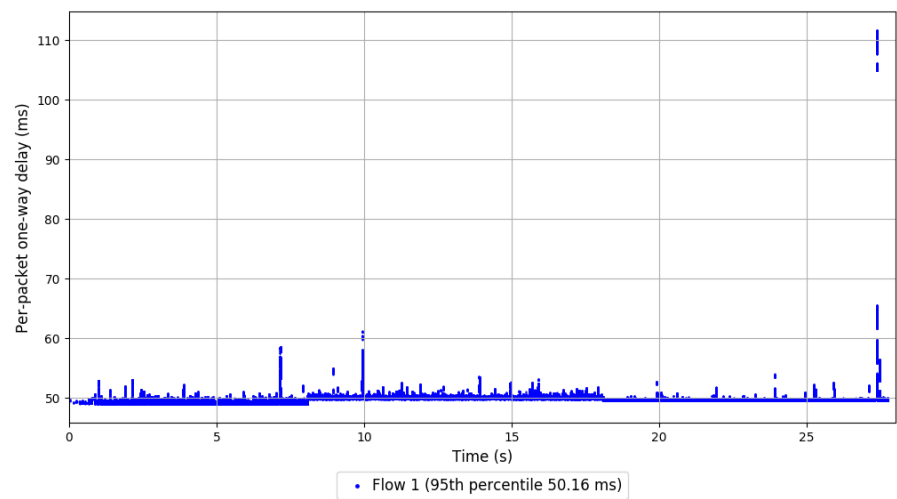
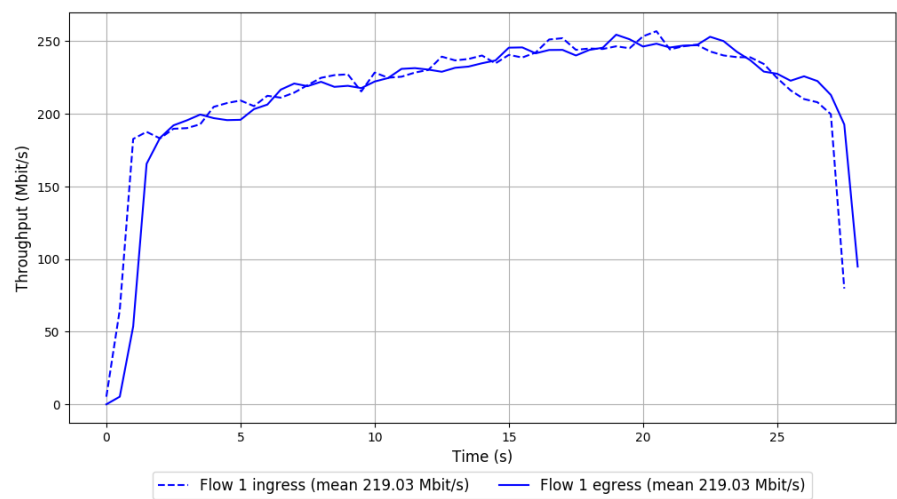
Run 1: Statistics of Indigo

Start at: 2018-05-25 21:36:01  
End at: 2018-05-25 21:36:31  
Local clock offset: -0.154 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 219.03 Mbit/s  
95th percentile per-packet one-way delay: 50.161 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 219.03 Mbit/s  
95th percentile per-packet one-way delay: 50.161 ms  
Loss rate: 0.00%



Run 1: Report of Indigo — Data Link

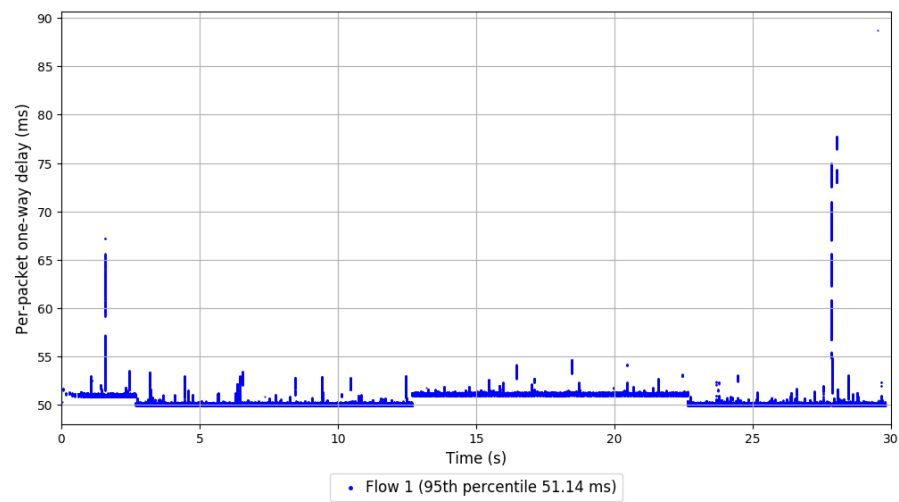
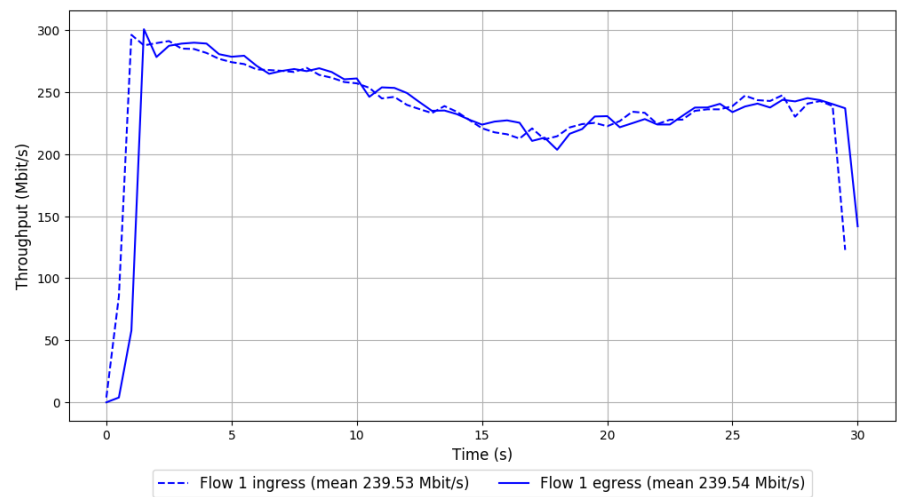


Run 2: Statistics of Indigo

Start at: 2018-05-25 21:56:38  
End at: 2018-05-25 21:57:08  
Local clock offset: -0.553 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 239.54 Mbit/s  
95th percentile per-packet one-way delay: 51.142 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 239.54 Mbit/s  
95th percentile per-packet one-way delay: 51.142 ms  
Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

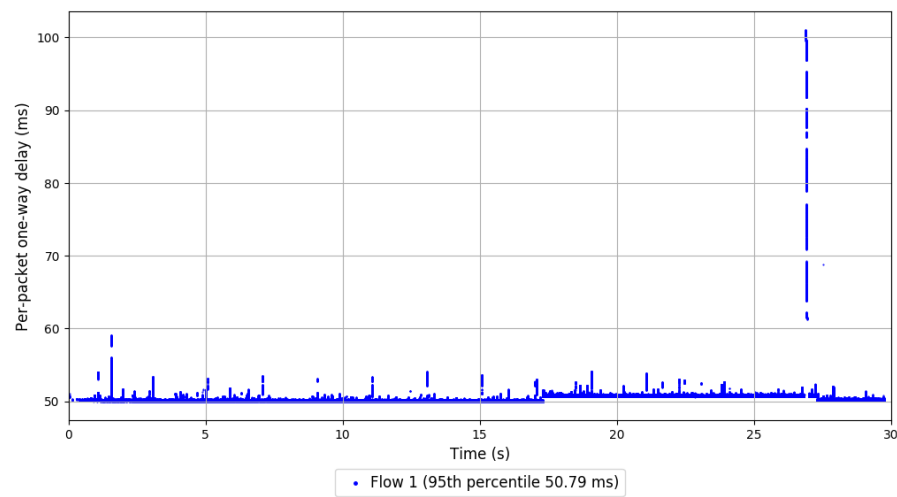
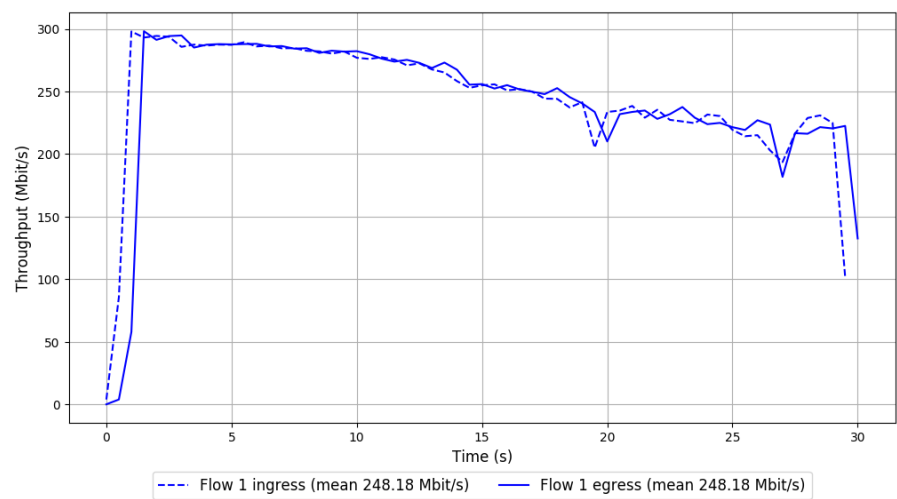


Run 3: Statistics of Indigo

Start at: 2018-05-25 22:17:14  
End at: 2018-05-25 22:17:44  
Local clock offset: -0.557 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 248.18 Mbit/s  
95th percentile per-packet one-way delay: 50.793 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 248.18 Mbit/s  
95th percentile per-packet one-way delay: 50.793 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 22:37:46

End at: 2018-05-25 22:38:16

Local clock offset: -0.17 ms

Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 238.65 Mbit/s

95th percentile per-packet one-way delay: 50.378 ms

Loss rate: 0.00%

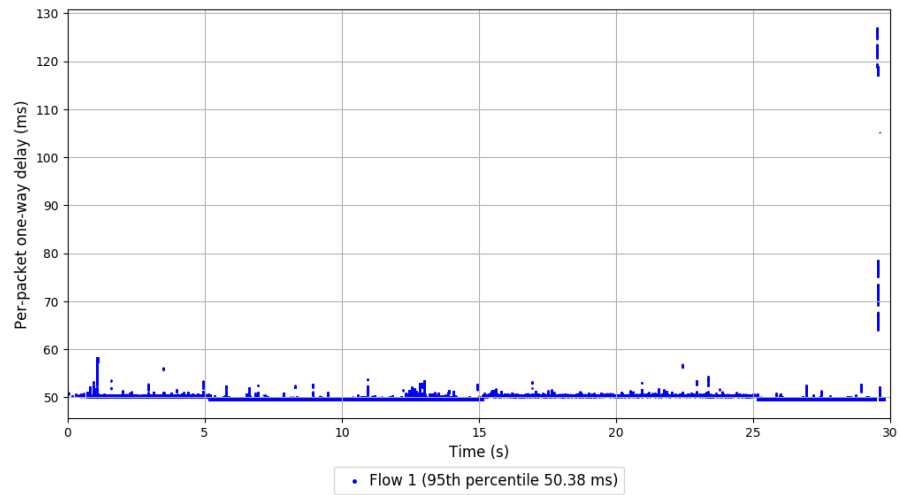
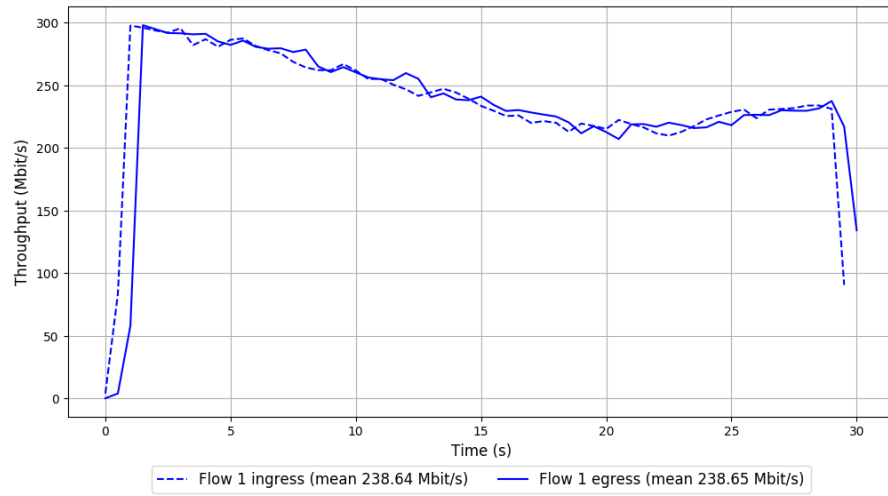
-- Flow 1:

Average throughput: 238.65 Mbit/s

95th percentile per-packet one-way delay: 50.378 ms

Loss rate: 0.00%

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



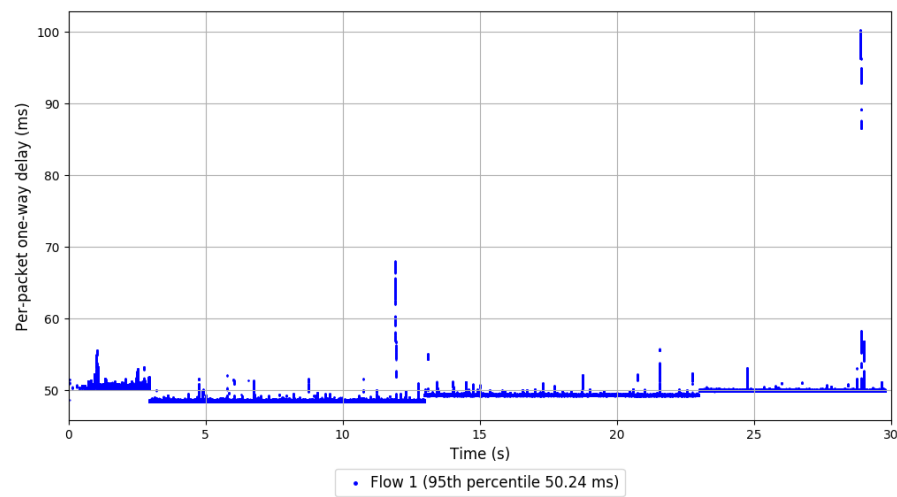
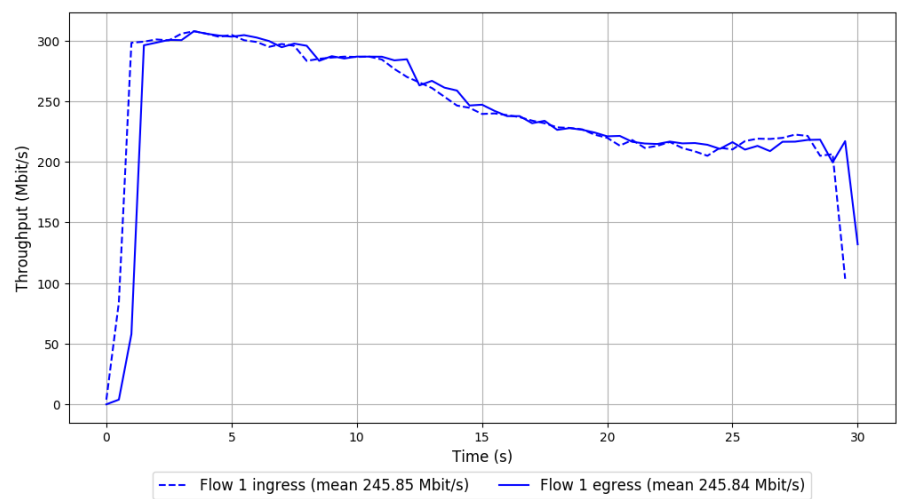
Run 5: Statistics of Indigo

Start at: 2018-05-25 22:58:18  
End at: 2018-05-25 22:58:48  
Local clock offset: 0.199 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 245.84 Mbit/s  
95th percentile per-packet one-way delay: 50.240 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 245.84 Mbit/s  
95th percentile per-packet one-way delay: 50.240 ms  
Loss rate: 0.00%



Run 5: Report of Indigo — Data Link

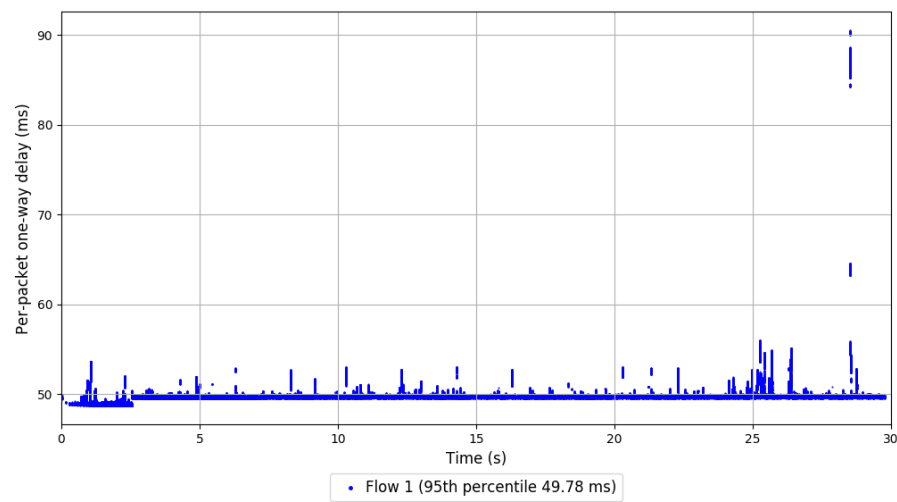
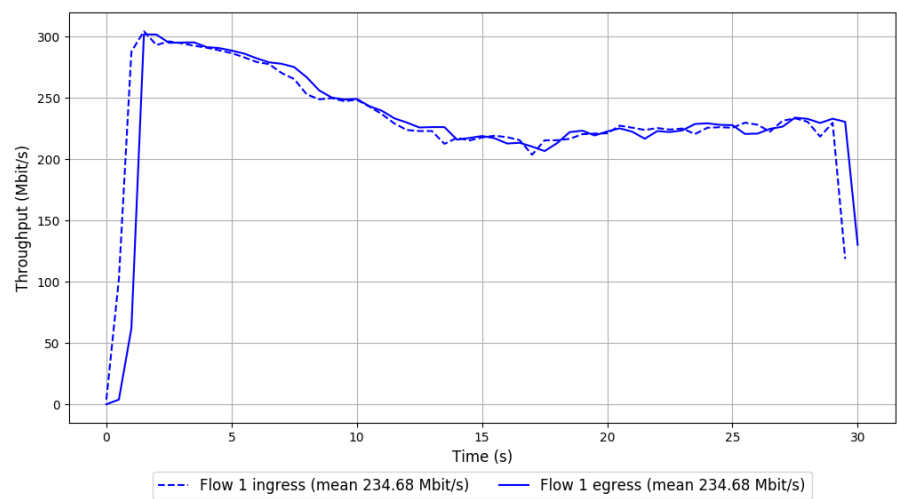


Run 6: Statistics of Indigo

Start at: 2018-05-25 23:18:38  
End at: 2018-05-25 23:19:08  
Local clock offset: -0.195 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 234.68 Mbit/s  
95th percentile per-packet one-way delay: 49.779 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 234.68 Mbit/s  
95th percentile per-packet one-way delay: 49.779 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-25 23:39:03

End at: 2018-05-25 23:39:33

Local clock offset: -0.151 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 219.86 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

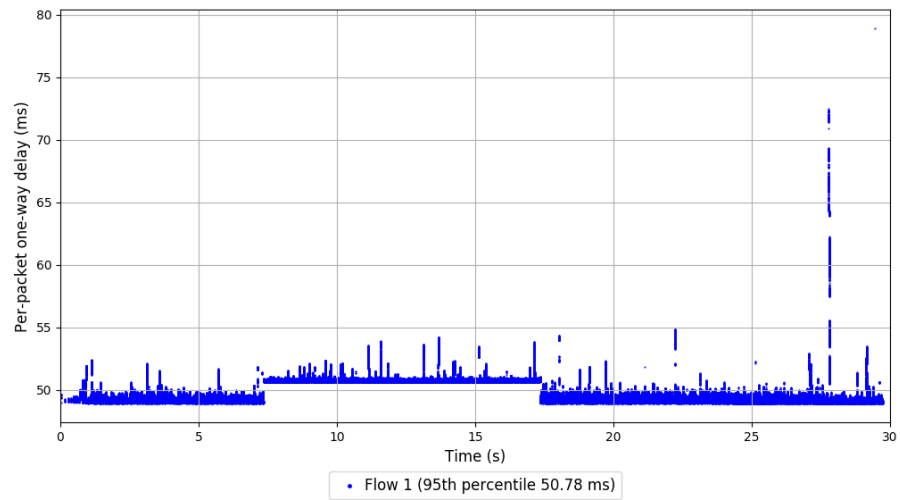
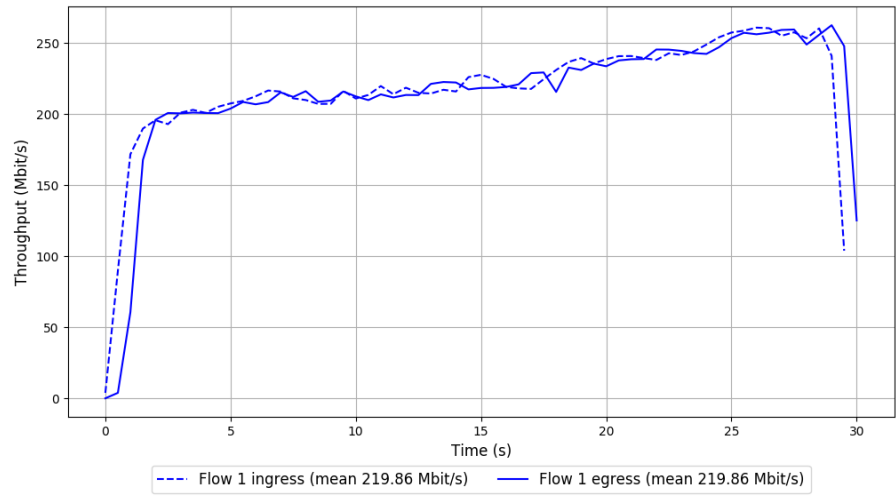
-- Flow 1:

Average throughput: 219.86 Mbit/s

95th percentile per-packet one-way delay: 50.777 ms

Loss rate: 0.00%

### Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 23:59:33

End at: 2018-05-26 00:00:03

Local clock offset: 0.175 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.59 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.00%

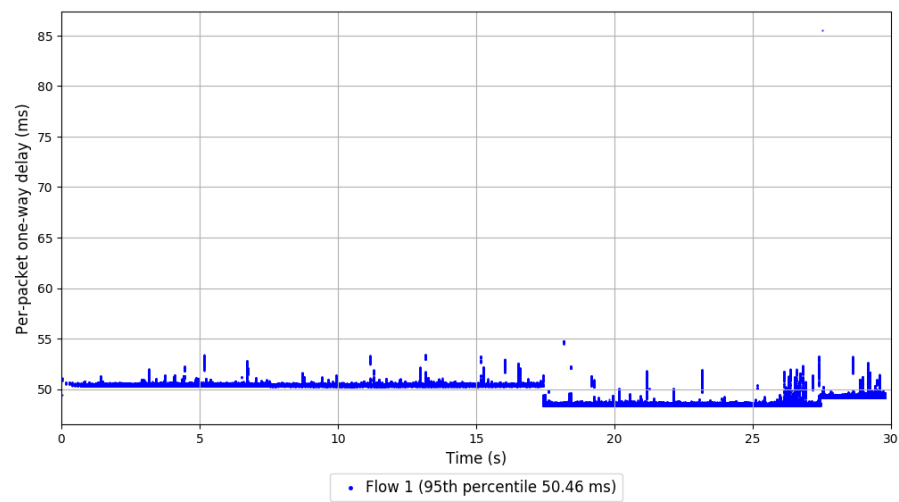
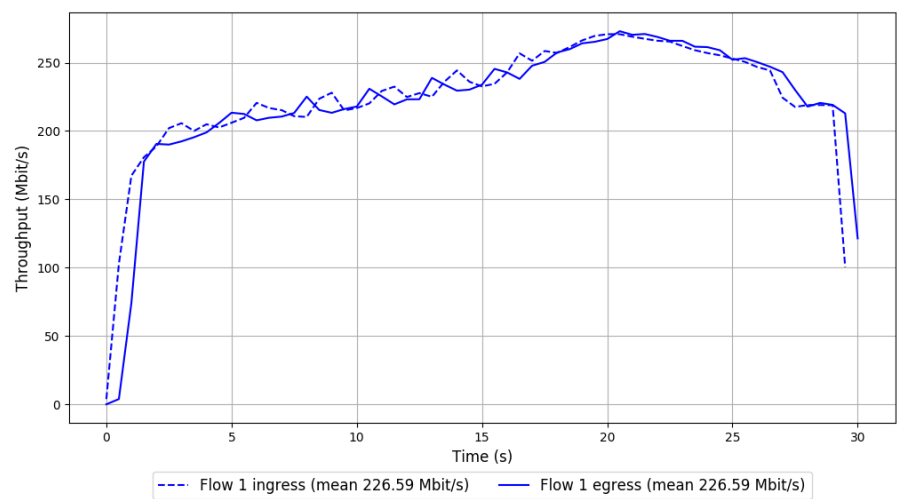
-- Flow 1:

Average throughput: 226.59 Mbit/s

95th percentile per-packet one-way delay: 50.460 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-26 00:20:03

End at: 2018-05-26 00:20:33

Local clock offset: -0.232 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.69 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.00%

-- Flow 1:

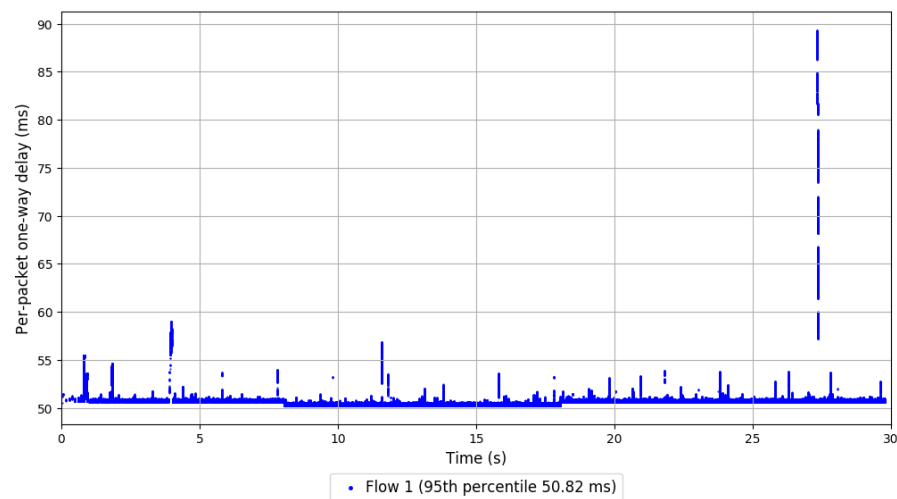
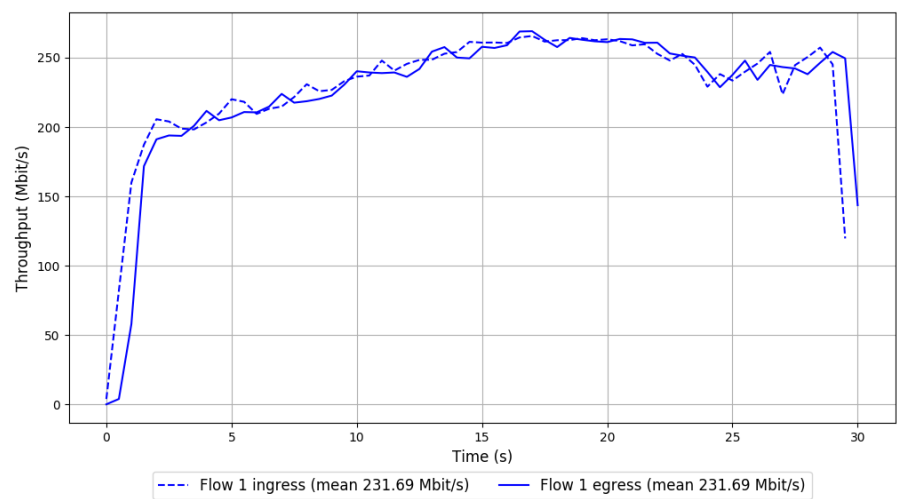
Average throughput: 231.69 Mbit/s

95th percentile per-packet one-way delay: 50.823 ms

Loss rate: 0.00%



Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-26 00:40:34

End at: 2018-05-26 00:41:04

Local clock offset: -0.264 ms

Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 237.14 Mbit/s

95th percentile per-packet one-way delay: 50.788 ms

Loss rate: 0.00%

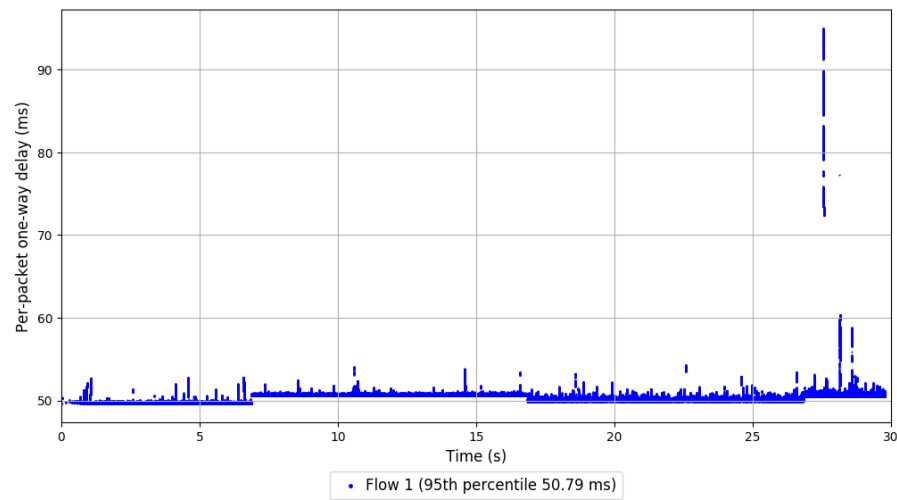
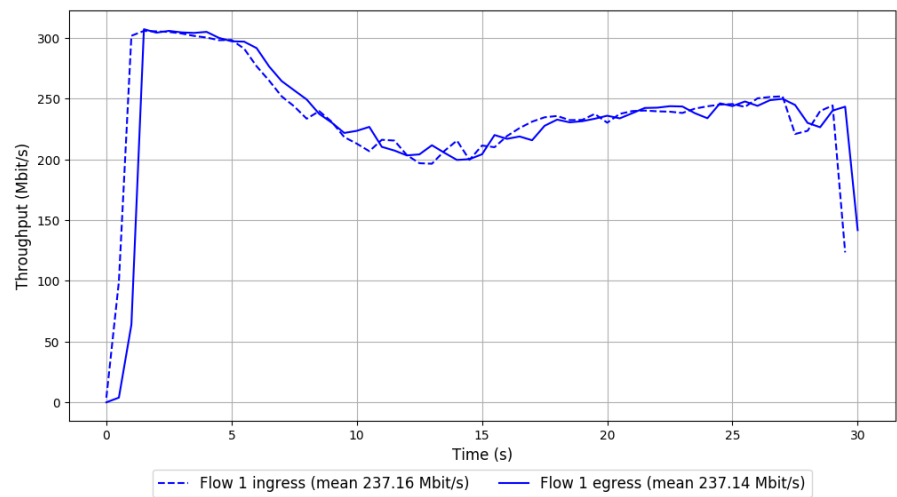
-- Flow 1:

Average throughput: 237.14 Mbit/s

95th percentile per-packet one-way delay: 50.788 ms

Loss rate: 0.00%

Run 10: Report of Indigo — Data Link

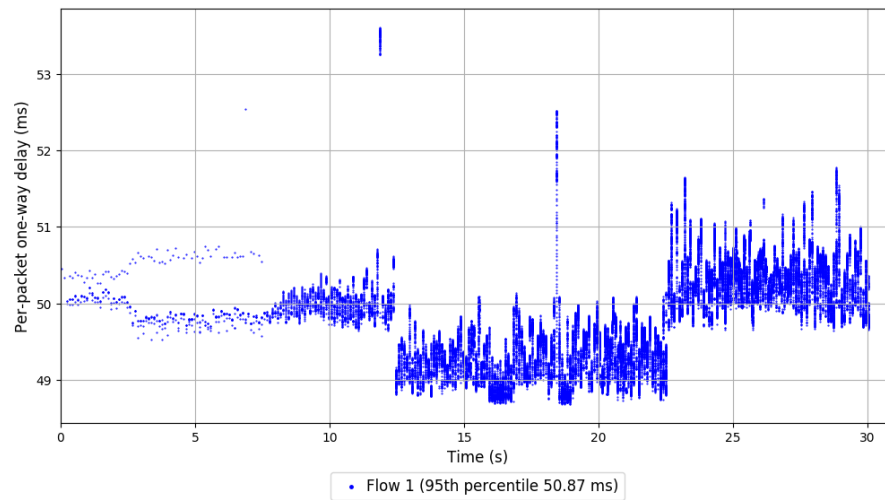
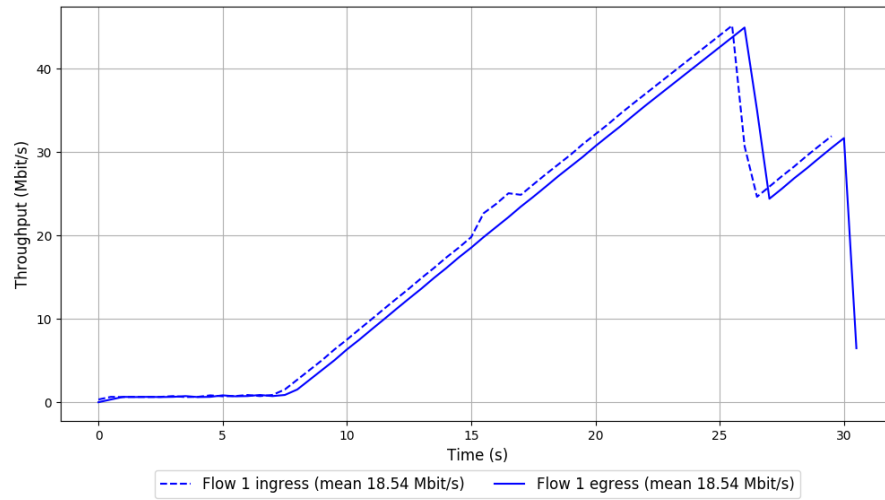


Run 1: Statistics of LEDBAT

Start at: 2018-05-25 21:45:09  
End at: 2018-05-25 21:45:39  
Local clock offset: -0.191 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 18.54 Mbit/s  
95th percentile per-packet one-way delay: 50.865 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 18.54 Mbit/s  
95th percentile per-packet one-way delay: 50.865 ms  
Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link

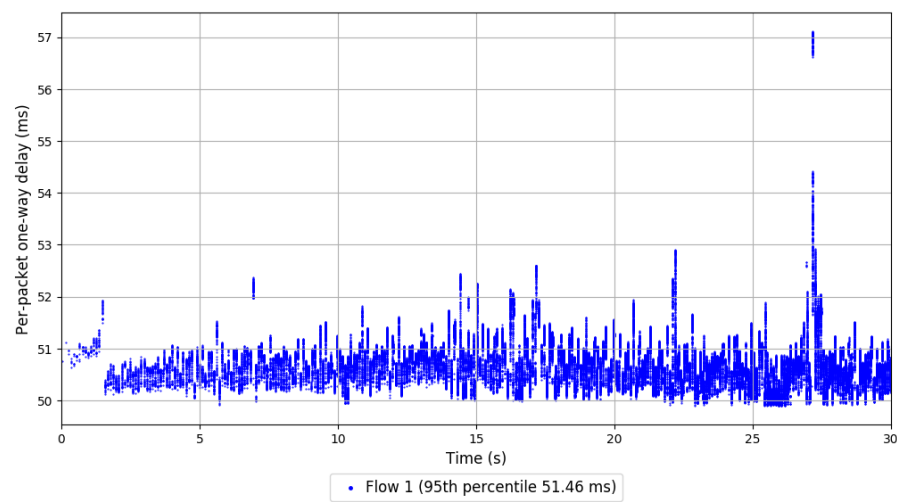
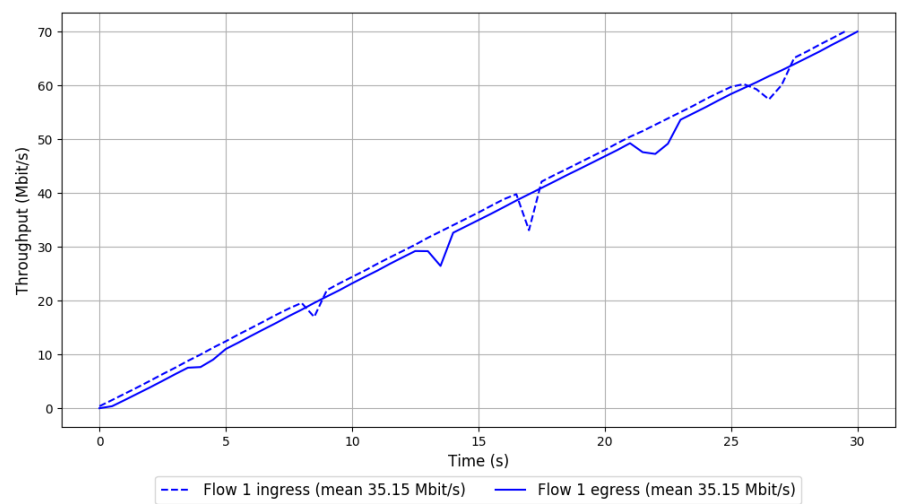


Run 2: Statistics of LEDBAT

Start at: 2018-05-25 22:05:50  
End at: 2018-05-25 22:06:20  
Local clock offset: -0.5 ms  
Remote clock offset: -0.149 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 51.458 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 51.458 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



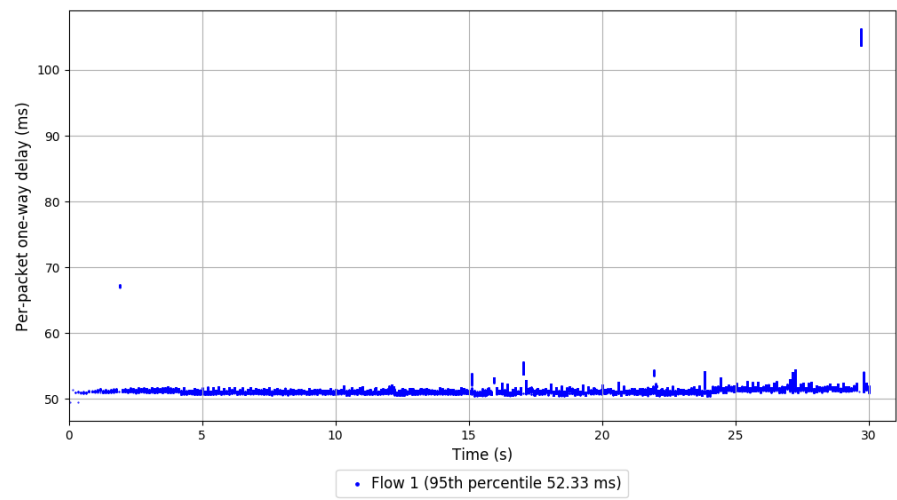
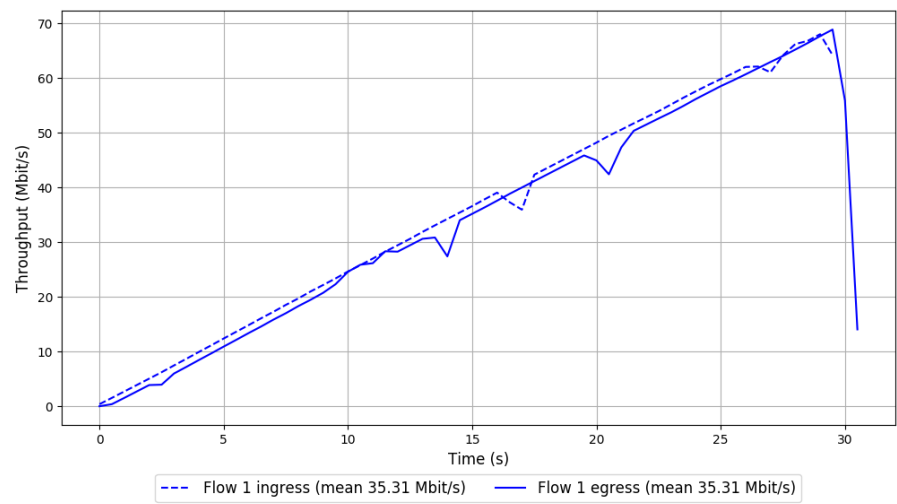
Run 3: Statistics of LEDBAT

Start at: 2018-05-25 22:26:27  
End at: 2018-05-25 22:26:57  
Local clock offset: -0.51 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 35.31 Mbit/s  
95th percentile per-packet one-way delay: 52.325 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.31 Mbit/s  
95th percentile per-packet one-way delay: 52.325 ms  
Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 22:47:03

End at: 2018-05-25 22:47:33

Local clock offset: -0.603 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 52.001 ms

Loss rate: 0.05%

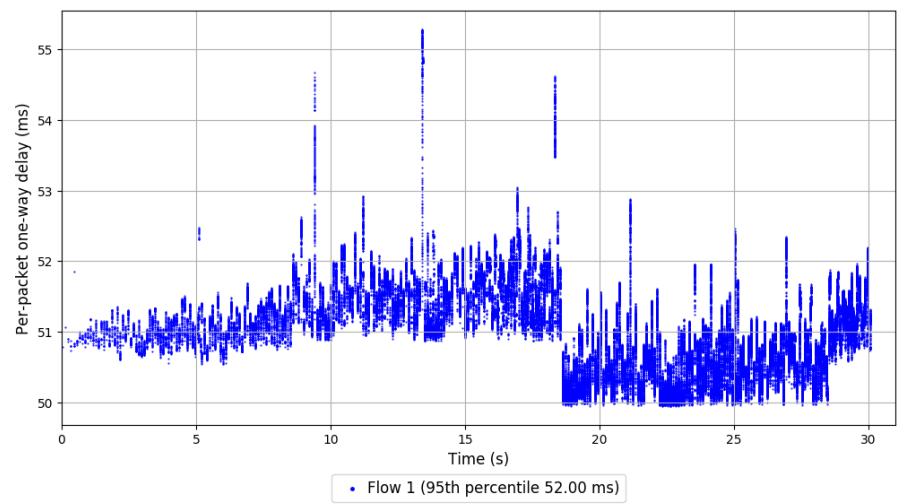
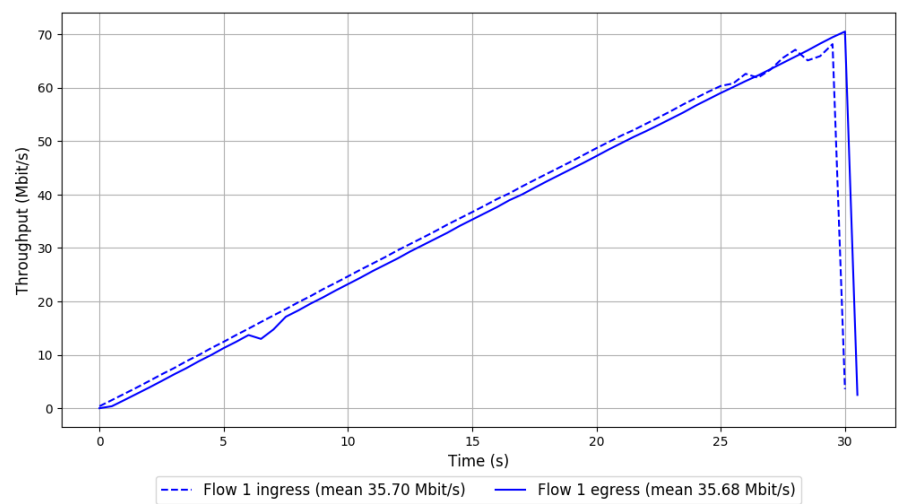
-- Flow 1:

Average throughput: 35.68 Mbit/s

95th percentile per-packet one-way delay: 52.001 ms

Loss rate: 0.05%

Run 4: Report of LEDBAT — Data Link

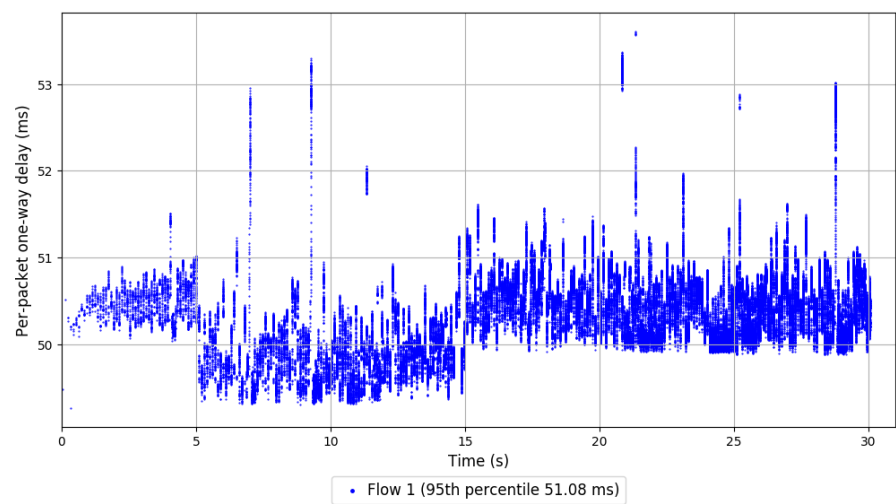
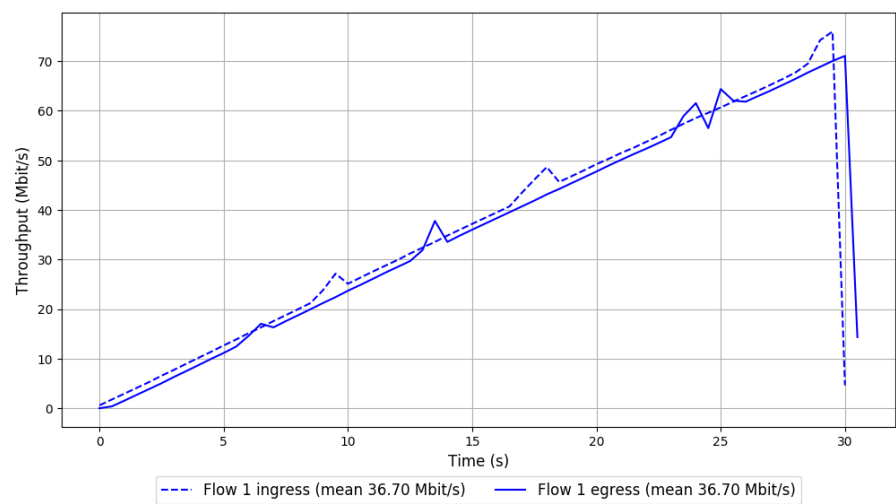


Run 5: Statistics of LEDBAT

Start at: 2018-05-25 23:07:26  
End at: 2018-05-25 23:07:56  
Local clock offset: -0.531 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 36.70 Mbit/s  
95th percentile per-packet one-way delay: 51.081 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 36.70 Mbit/s  
95th percentile per-packet one-way delay: 51.081 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 23:27:51

End at: 2018-05-25 23:28:21

Local clock offset: 0.211 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.00%

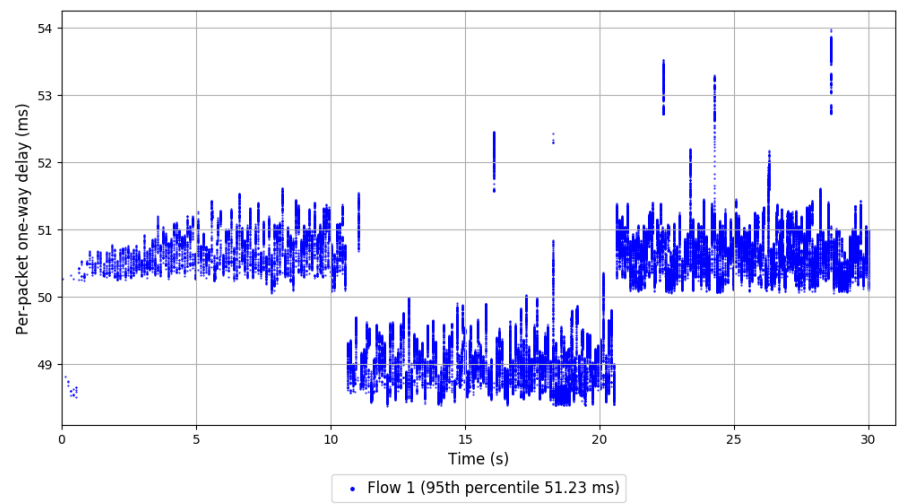
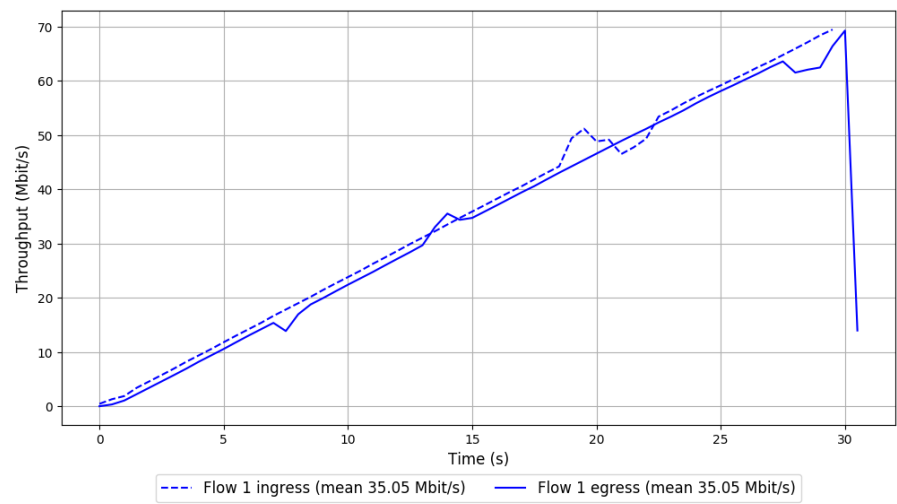
-- Flow 1:

Average throughput: 35.05 Mbit/s

95th percentile per-packet one-way delay: 51.227 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 23:48:23

End at: 2018-05-25 23:48:53

Local clock offset: -0.577 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 52.084 ms

Loss rate: 0.00%

-- Flow 1:

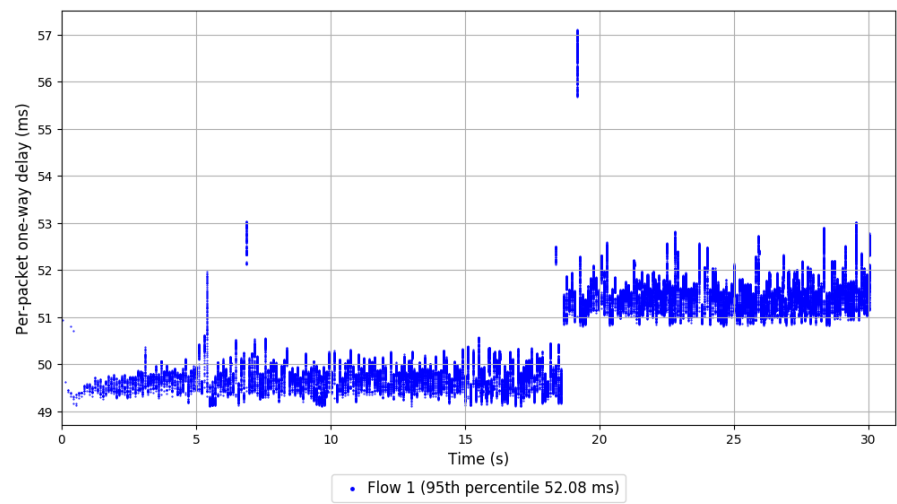
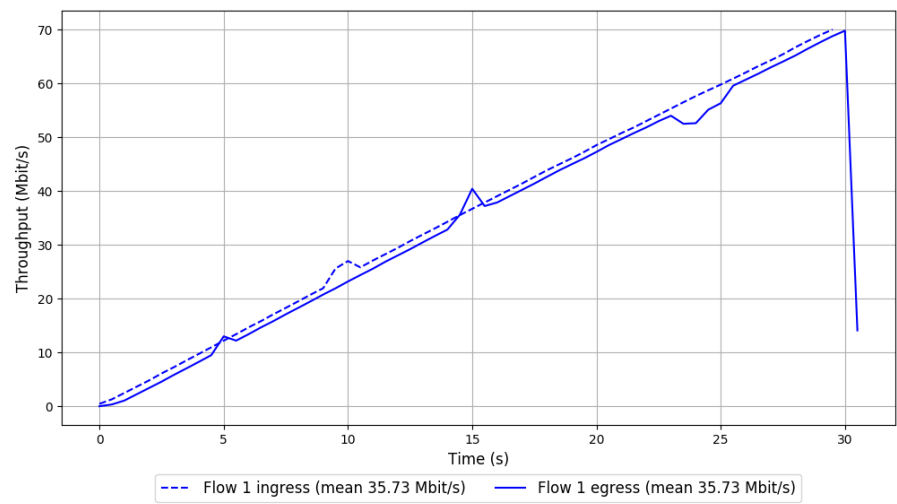
Average throughput: 35.73 Mbit/s

95th percentile per-packet one-way delay: 52.084 ms

Loss rate: 0.00%



Run 7: Report of LEDBAT — Data Link

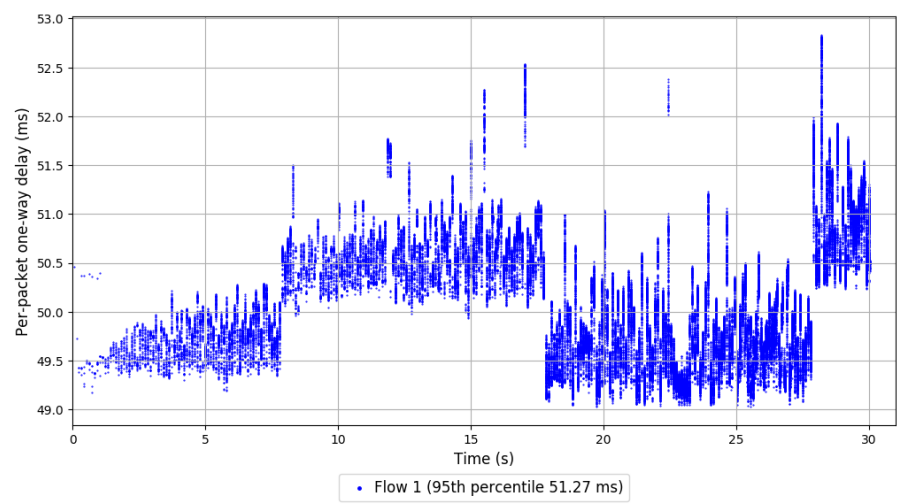
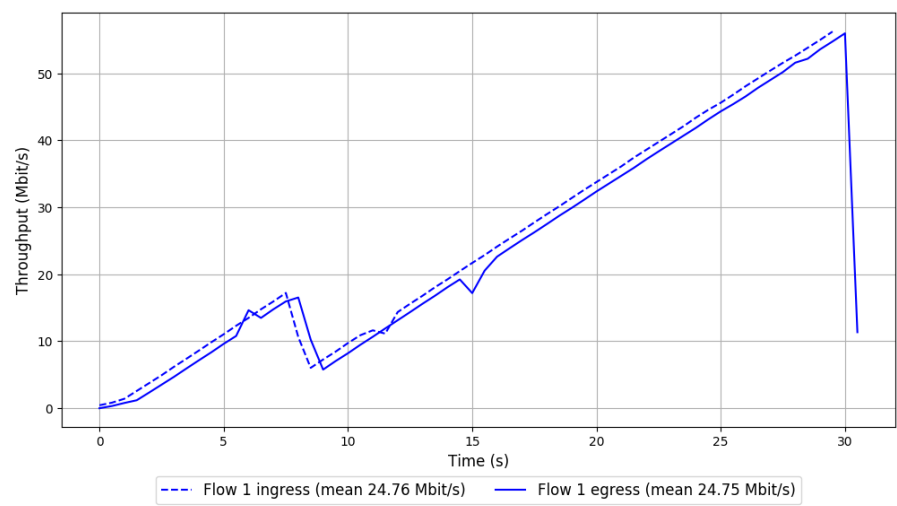


Run 8: Statistics of LEDBAT

Start at: 2018-05-26 00:08:43  
End at: 2018-05-26 00:09:13  
Local clock offset: 0.175 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 24.75 Mbit/s  
95th percentile per-packet one-way delay: 51.274 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.75 Mbit/s  
95th percentile per-packet one-way delay: 51.274 ms  
Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-26 00:29:15

End at: 2018-05-26 00:29:46

Local clock offset: -0.204 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-26 01:53:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.00%

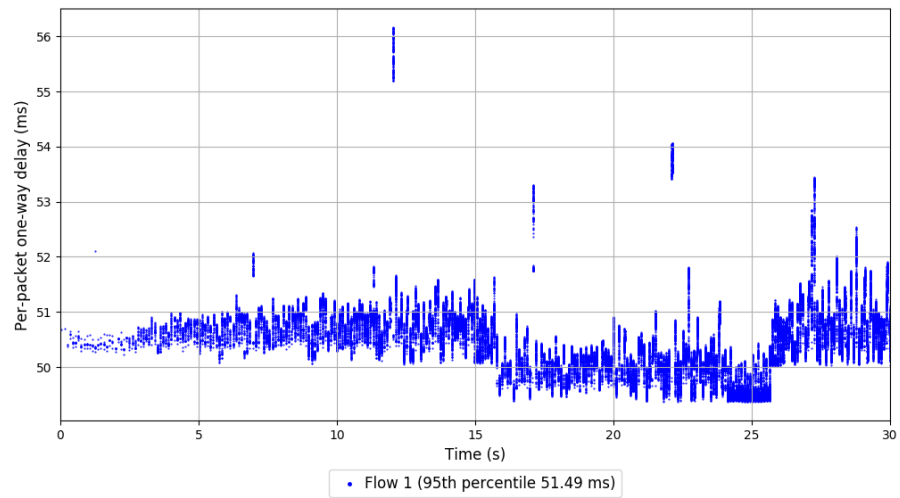
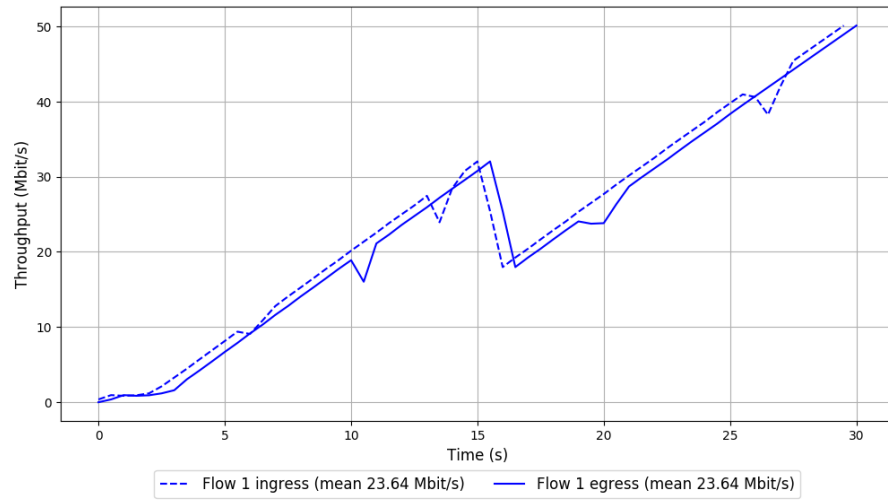
-- Flow 1:

Average throughput: 23.64 Mbit/s

95th percentile per-packet one-way delay: 51.493 ms

Loss rate: 0.00%

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

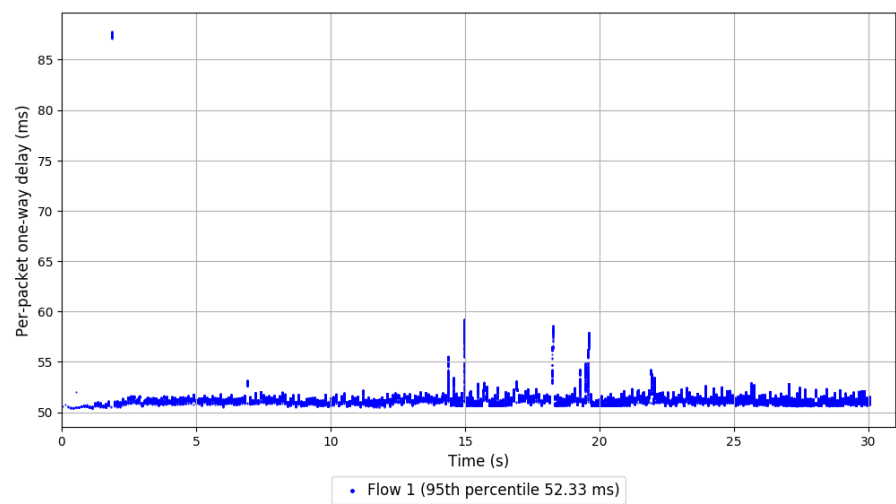
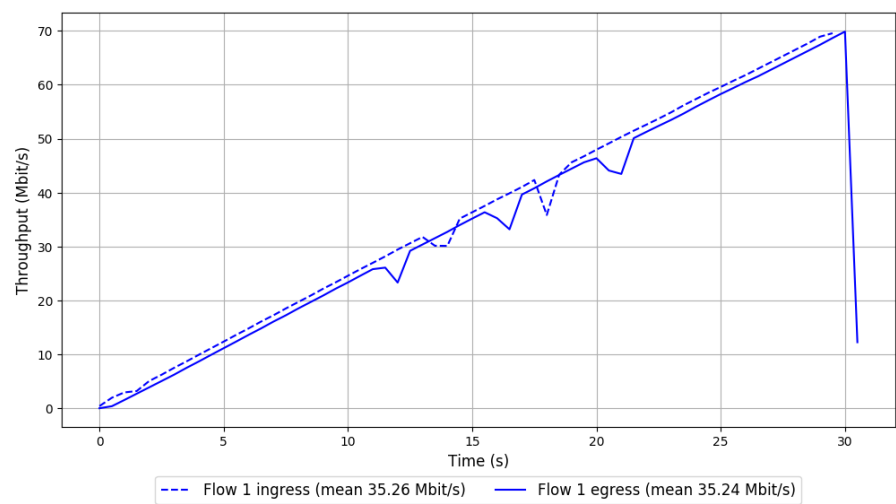


Run 10: Statistics of LEDBAT

Start at: 2018-05-26 00:49:49  
End at: 2018-05-26 00:50:19  
Local clock offset: -0.246 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2018-05-26 01:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 35.24 Mbit/s  
95th percentile per-packet one-way delay: 52.333 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 35.24 Mbit/s  
95th percentile per-packet one-way delay: 52.333 ms  
Loss rate: 0.06%

Run 10: Report of LEDBAT — Data Link



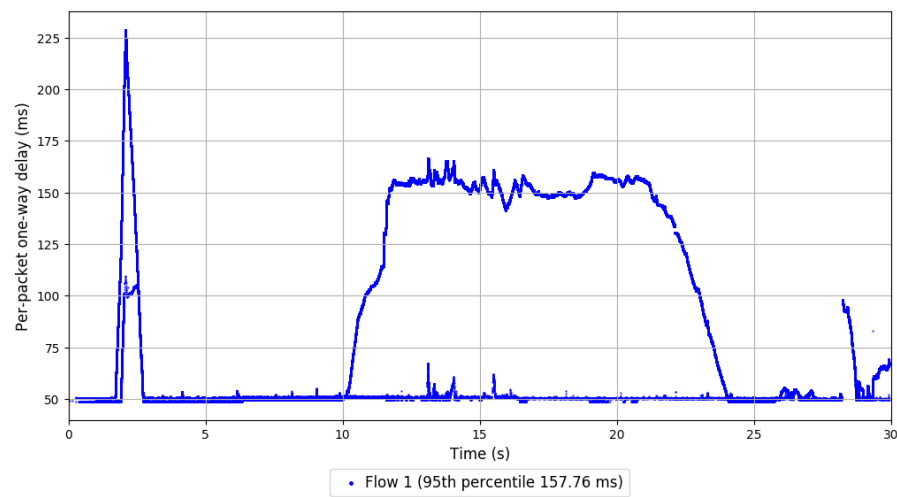
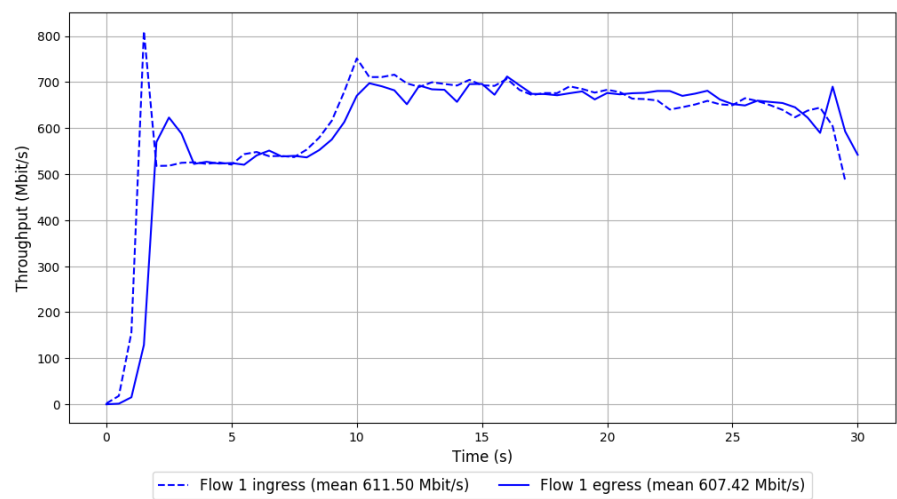
Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 21:49:55  
End at: 2018-05-25 21:50:25  
Local clock offset: -0.192 ms  
Remote clock offset: -0.147 ms

# Below is generated by plot.py at 2018-05-26 01:54:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 607.42 Mbit/s  
95th percentile per-packet one-way delay: 157.756 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 607.42 Mbit/s  
95th percentile per-packet one-way delay: 157.756 ms  
Loss rate: 0.66%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 22:10:30

End at: 2018-05-25 22:11:00

Local clock offset: -0.128 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2018-05-26 01:54:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 589.28 Mbit/s

95th percentile per-packet one-way delay: 132.428 ms

Loss rate: 0.63%

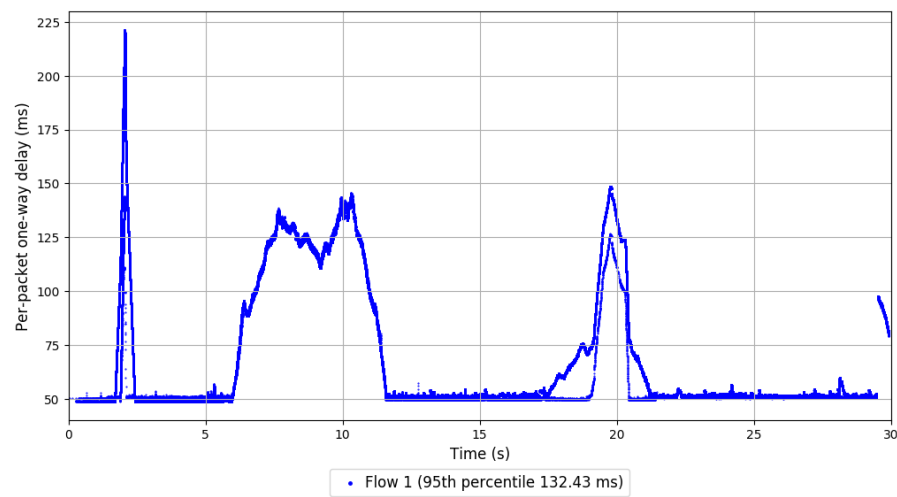
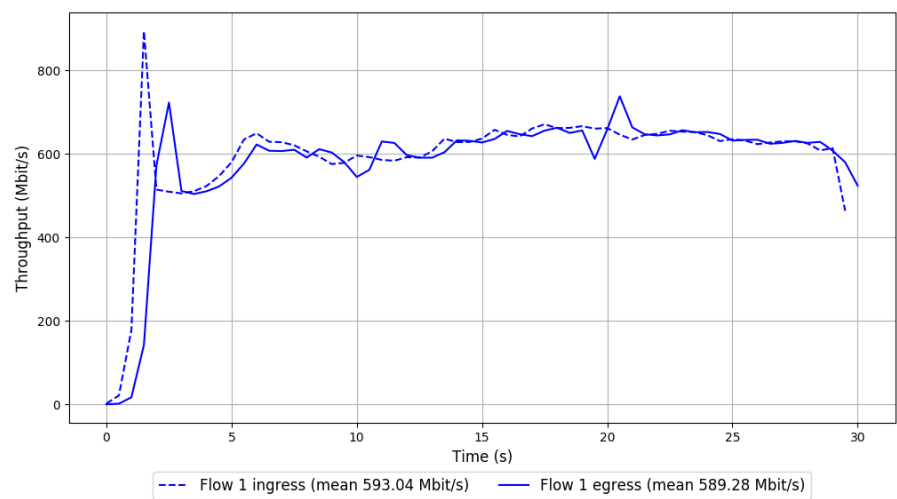
-- Flow 1:

Average throughput: 589.28 Mbit/s

95th percentile per-packet one-way delay: 132.428 ms

Loss rate: 0.63%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 22:31:07

End at: 2018-05-25 22:31:37

Local clock offset: -0.212 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-05-26 01:54:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 583.34 Mbit/s

95th percentile per-packet one-way delay: 105.251 ms

Loss rate: 0.33%

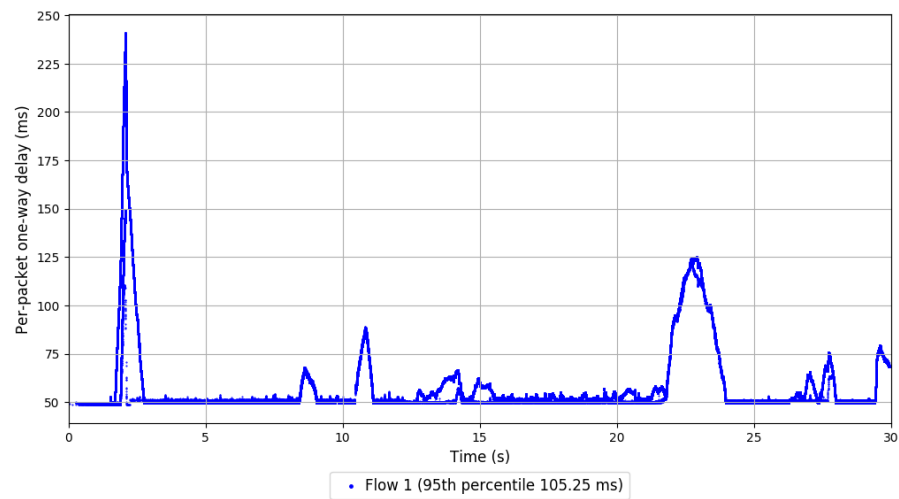
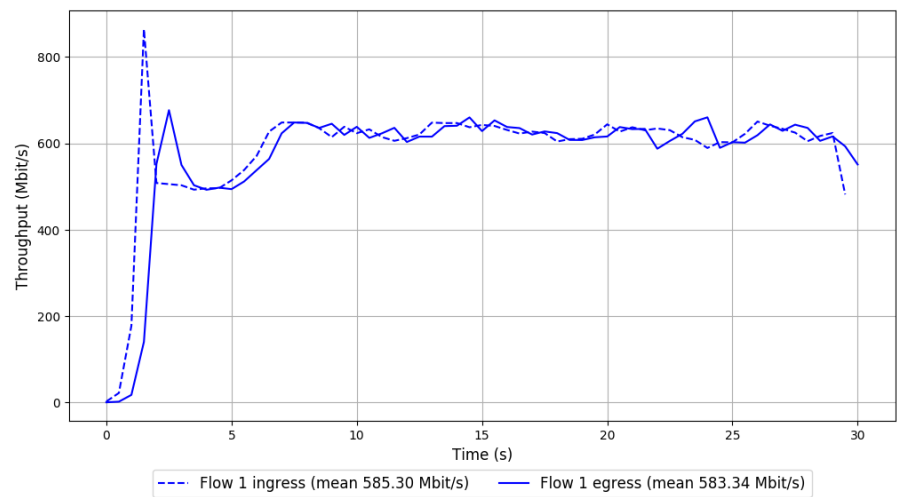
-- Flow 1:

Average throughput: 583.34 Mbit/s

95th percentile per-packet one-way delay: 105.251 ms

Loss rate: 0.33%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 22:51:49

End at: 2018-05-25 22:52:19

Local clock offset: -0.241 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-05-26 01:54:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 587.59 Mbit/s

95th percentile per-packet one-way delay: 70.557 ms

Loss rate: 0.19%

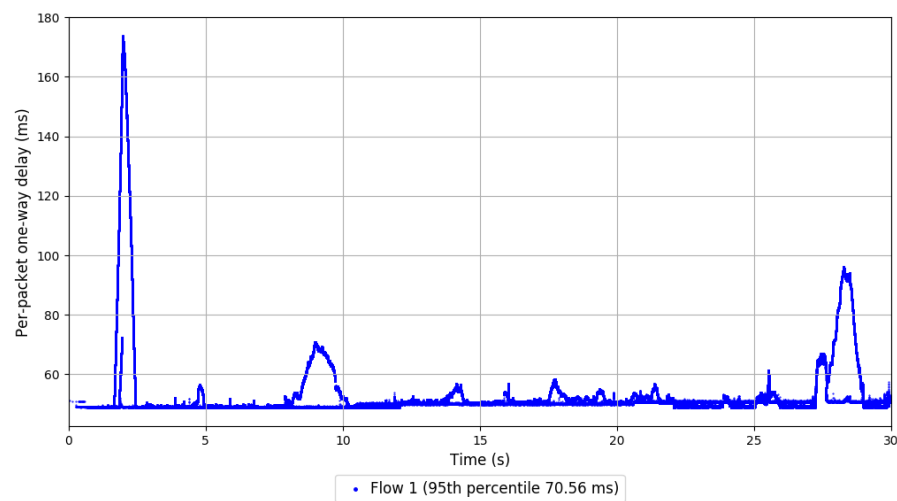
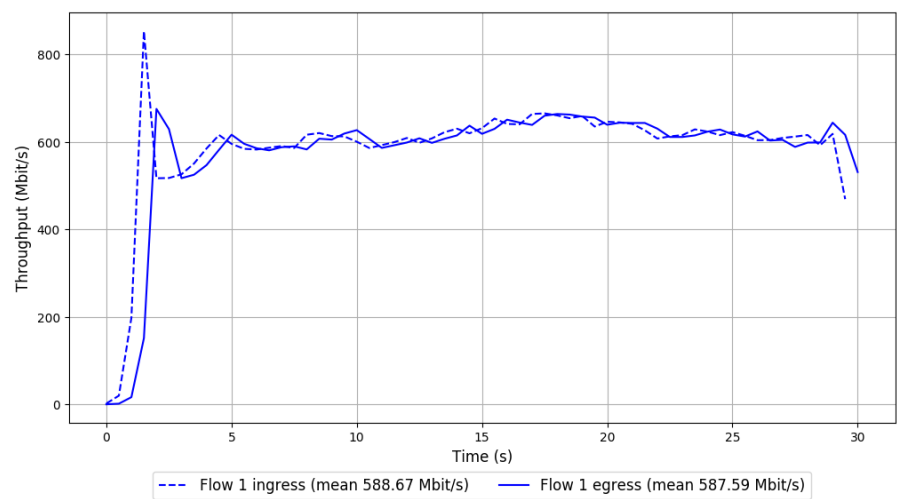
-- Flow 1:

Average throughput: 587.59 Mbit/s

95th percentile per-packet one-way delay: 70.557 ms

Loss rate: 0.19%

Run 4: Report of PCC-Allegro — Data Link



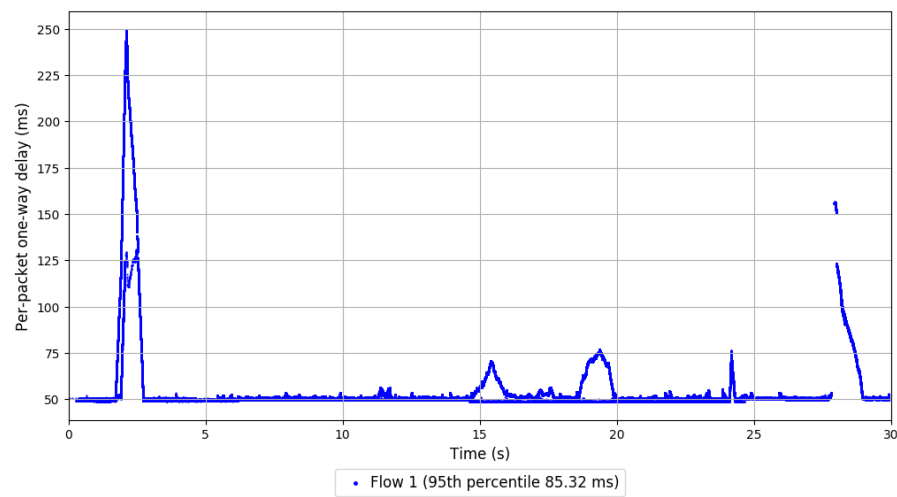
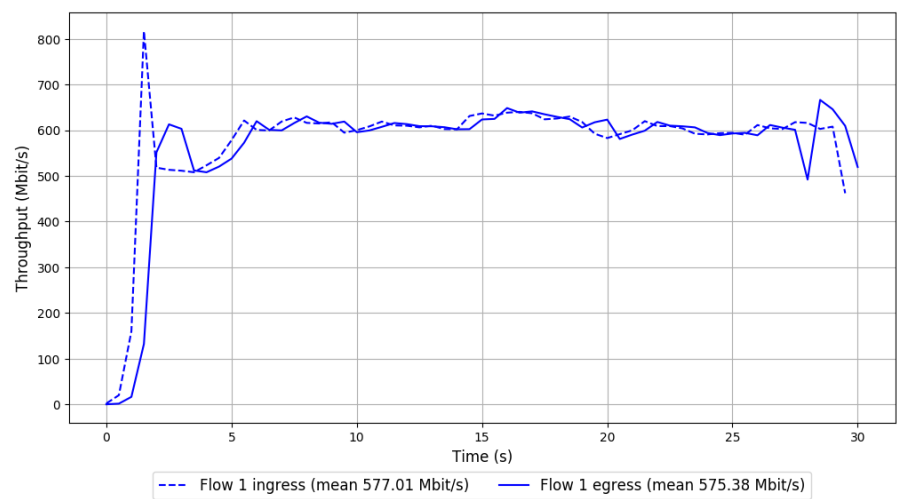
Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 23:12:05  
End at: 2018-05-25 23:12:35  
Local clock offset: -0.208 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2018-05-26 01:54:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 575.38 Mbit/s  
95th percentile per-packet one-way delay: 85.319 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 575.38 Mbit/s  
95th percentile per-packet one-way delay: 85.319 ms  
Loss rate: 0.28%



Run 5: Report of PCC-Allegro — Data Link

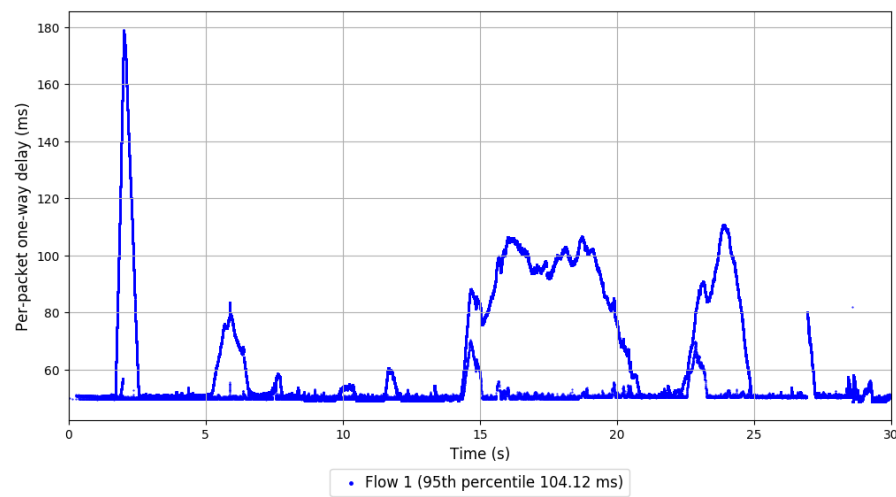
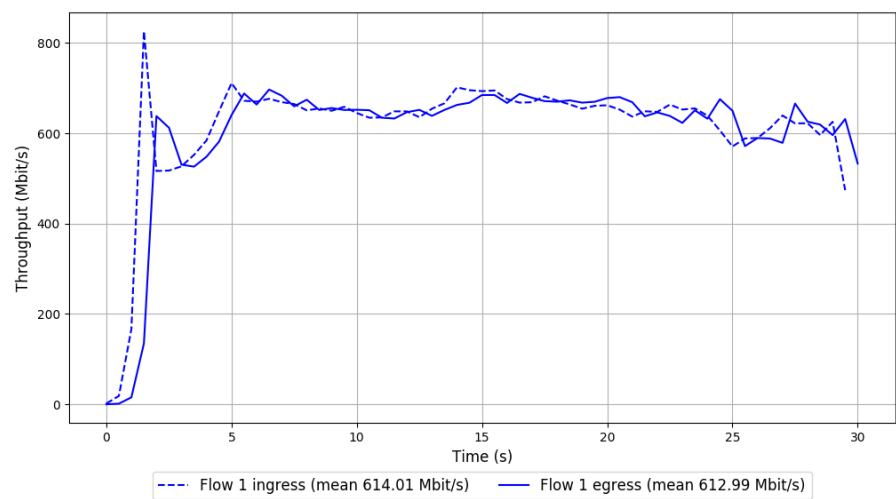


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 23:32:32  
End at: 2018-05-25 23:33:02  
Local clock offset: -0.156 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2018-05-26 01:55:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 612.99 Mbit/s  
95th percentile per-packet one-way delay: 104.116 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 612.99 Mbit/s  
95th percentile per-packet one-way delay: 104.116 ms  
Loss rate: 0.17%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 23:53:00

End at: 2018-05-25 23:53:30

Local clock offset: -0.21 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 02:02:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 565.83 Mbit/s

95th percentile per-packet one-way delay: 83.530 ms

Loss rate: 0.30%

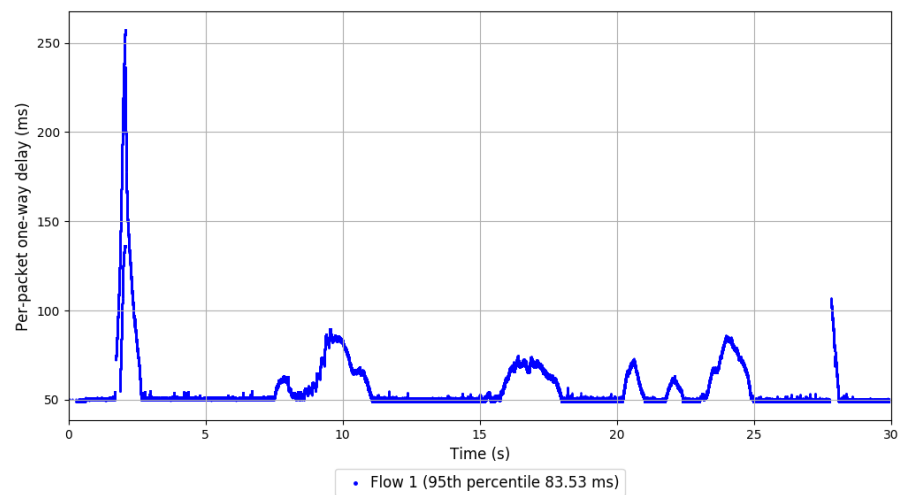
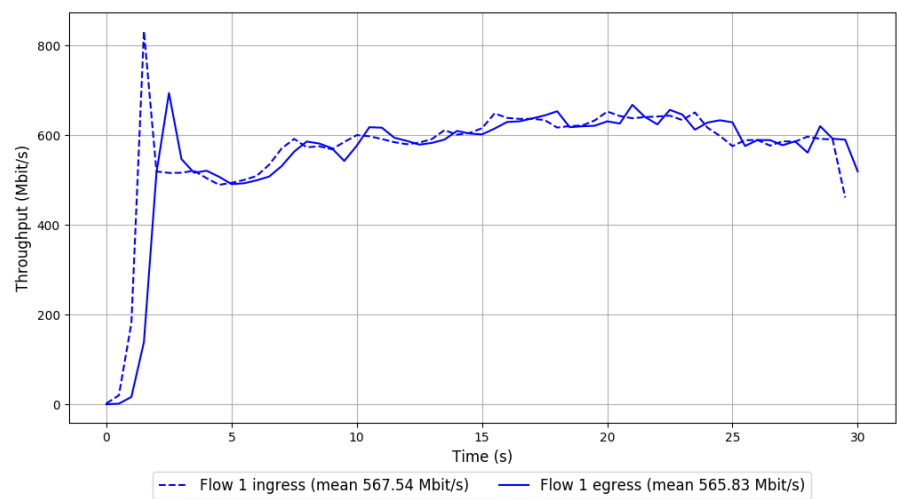
-- Flow 1:

Average throughput: 565.83 Mbit/s

95th percentile per-packet one-way delay: 83.530 ms

Loss rate: 0.30%

Run 7: Report of PCC-Allegro — Data Link

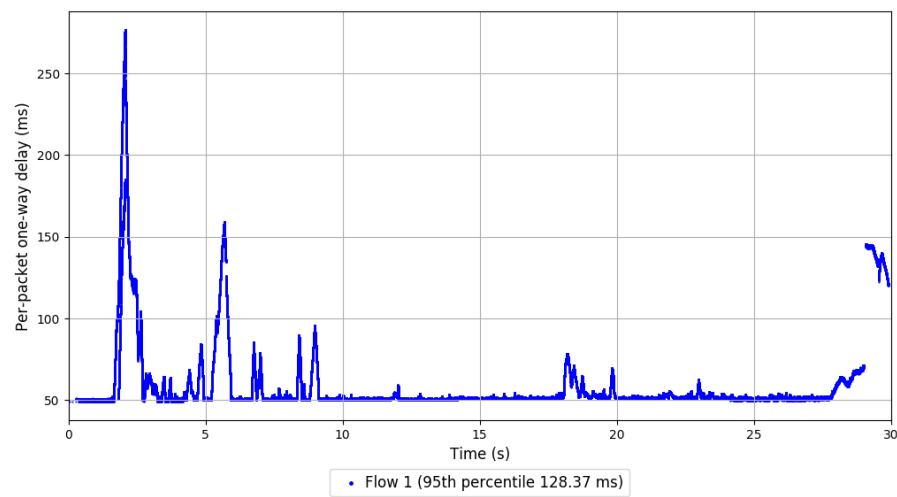
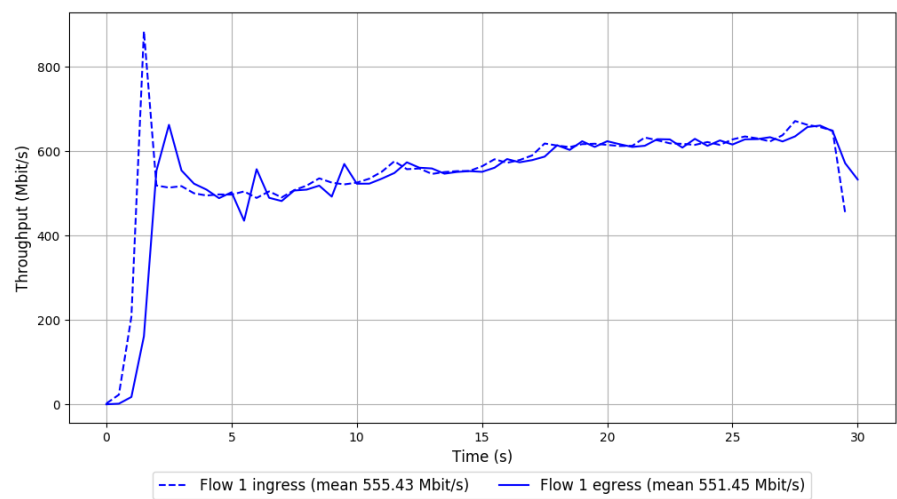


Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 00:13:27  
End at: 2018-05-26 00:13:57  
Local clock offset: -0.233 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2018-05-26 02:02:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 551.45 Mbit/s  
95th percentile per-packet one-way delay: 128.374 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 551.45 Mbit/s  
95th percentile per-packet one-way delay: 128.374 ms  
Loss rate: 0.71%

Run 8: Report of PCC-Allegro — Data Link



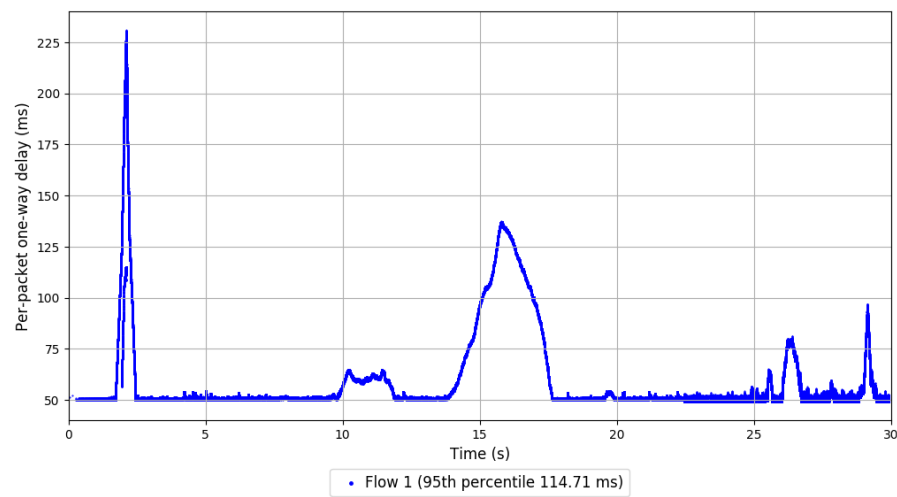
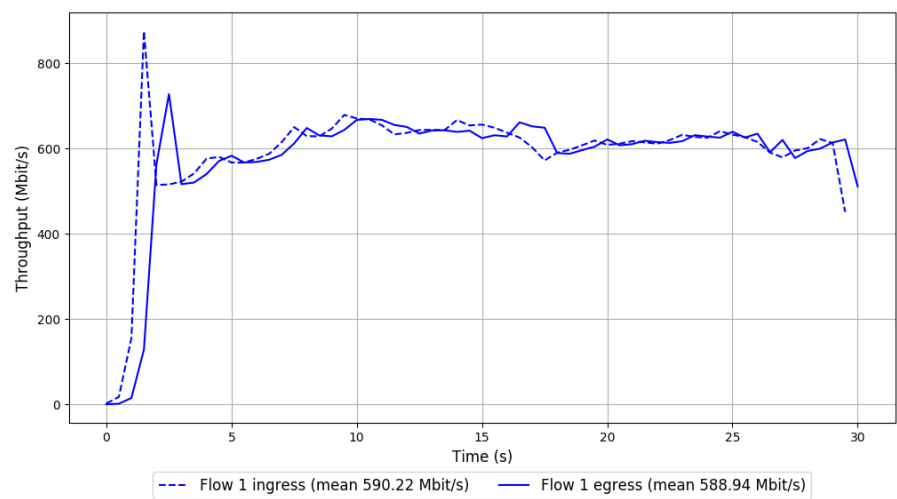
Run 9: Statistics of PCC-Allegro

Start at: 2018-05-26 00:33:59  
End at: 2018-05-26 00:34:29  
Local clock offset: -0.584 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-05-26 02:03:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 588.94 Mbit/s  
95th percentile per-packet one-way delay: 114.710 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 588.94 Mbit/s  
95th percentile per-packet one-way delay: 114.710 ms  
Loss rate: 0.22%



Run 9: Report of PCC-Allegro — Data Link

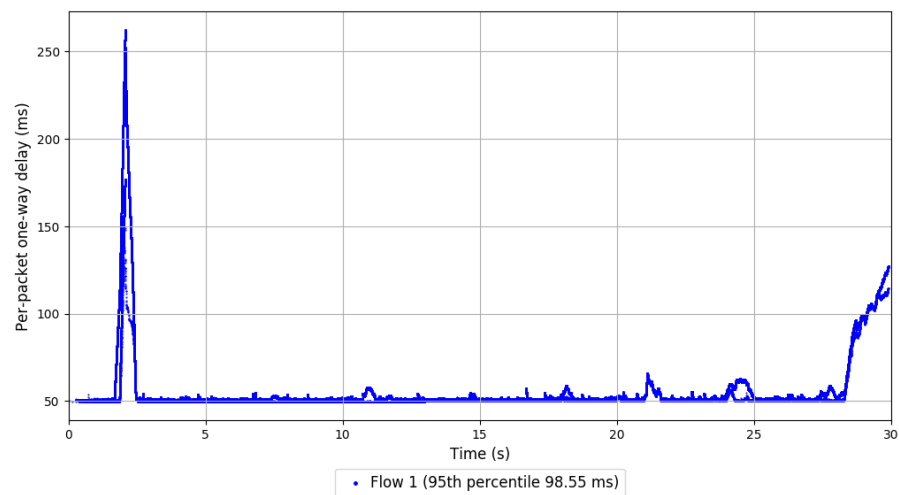
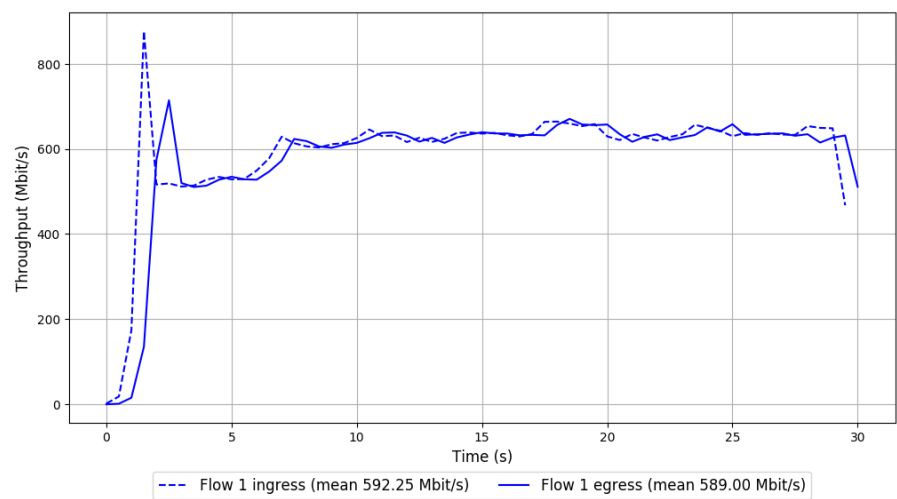


Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 00:54:28  
End at: 2018-05-26 00:54:58  
Local clock offset: -0.187 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-05-26 02:03:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 589.00 Mbit/s  
95th percentile per-packet one-way delay: 98.548 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 589.00 Mbit/s  
95th percentile per-packet one-way delay: 98.548 ms  
Loss rate: 0.55%

Run 10: Report of PCC-Allegro — Data Link

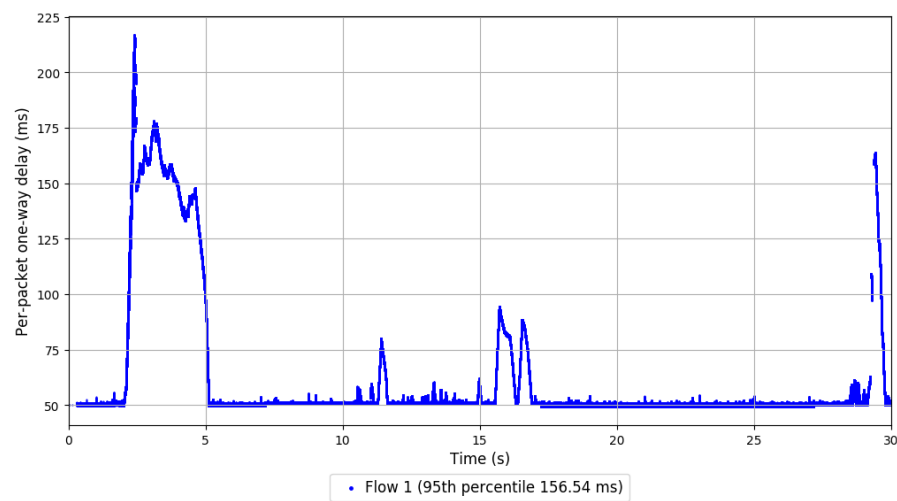
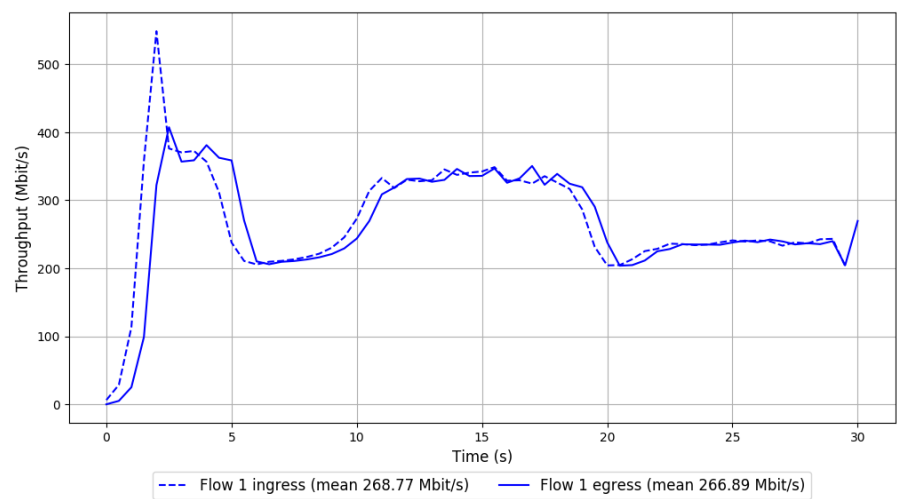


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 21:34:34
End at: 2018-05-25 21:35:04
Local clock offset: -0.597 ms
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-05-26 02:03:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 266.89 Mbit/s
95th percentile per-packet one-way delay: 156.543 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 266.89 Mbit/s
95th percentile per-packet one-way delay: 156.543 ms
Loss rate: 0.70%
```

Run 1: Report of PCC-Expr — Data Link

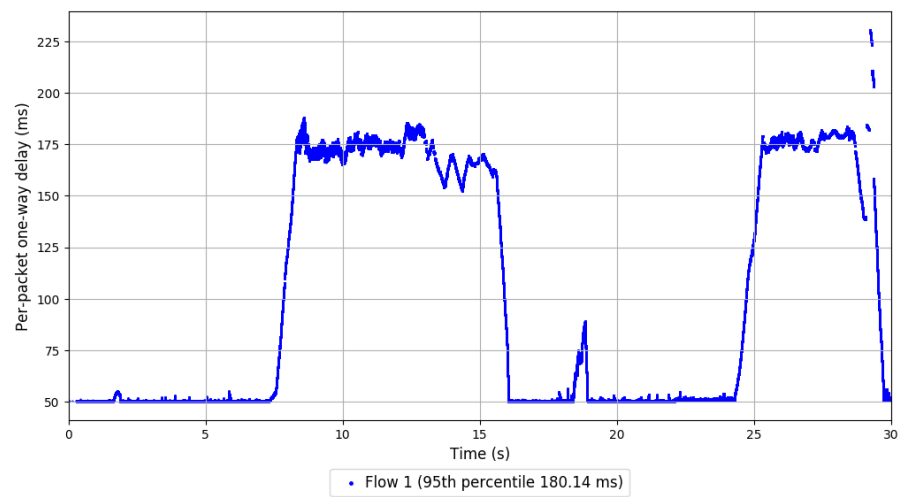
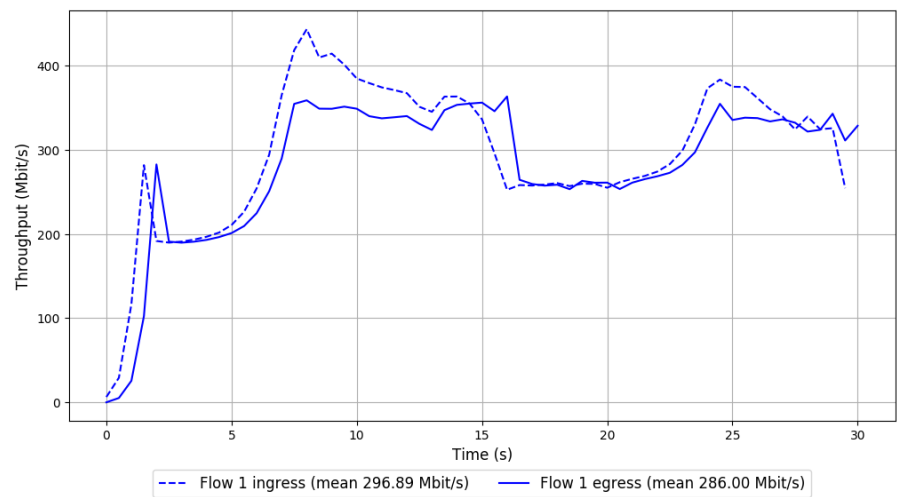


Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 21:55:09  
End at: 2018-05-25 21:55:39  
Local clock offset: -0.592 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-26 02:03:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 286.00 Mbit/s  
95th percentile per-packet one-way delay: 180.140 ms  
Loss rate: 3.67%  
-- Flow 1:  
Average throughput: 286.00 Mbit/s  
95th percentile per-packet one-way delay: 180.140 ms  
Loss rate: 3.67%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 22:15:42

End at: 2018-05-25 22:16:12

Local clock offset: 0.187 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2018-05-26 02:03:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 301.36 Mbit/s

95th percentile per-packet one-way delay: 172.195 ms

Loss rate: 2.55%

-- Flow 1:

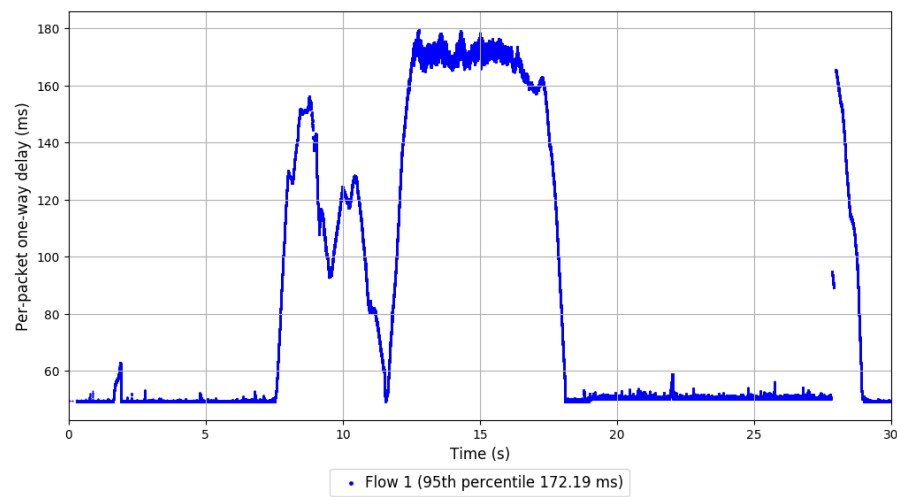
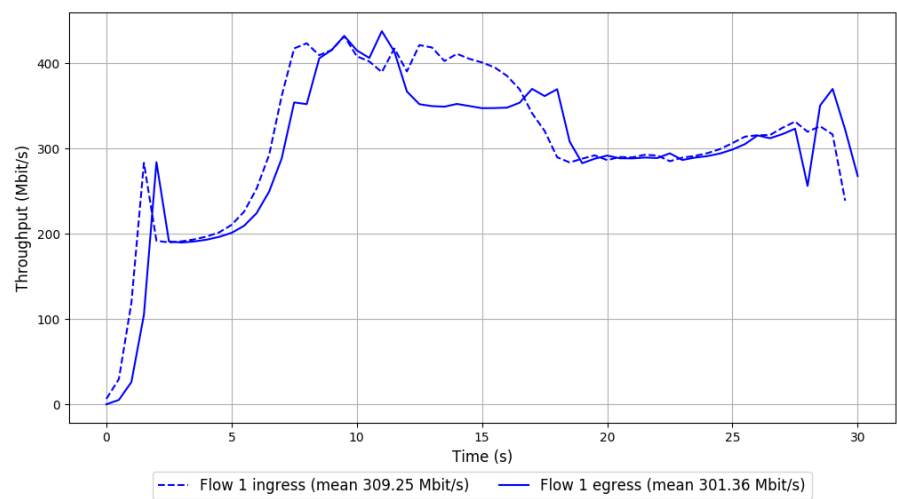
Average throughput: 301.36 Mbit/s

95th percentile per-packet one-way delay: 172.195 ms

Loss rate: 2.55%



Run 3: Report of PCC-Expr — Data Link

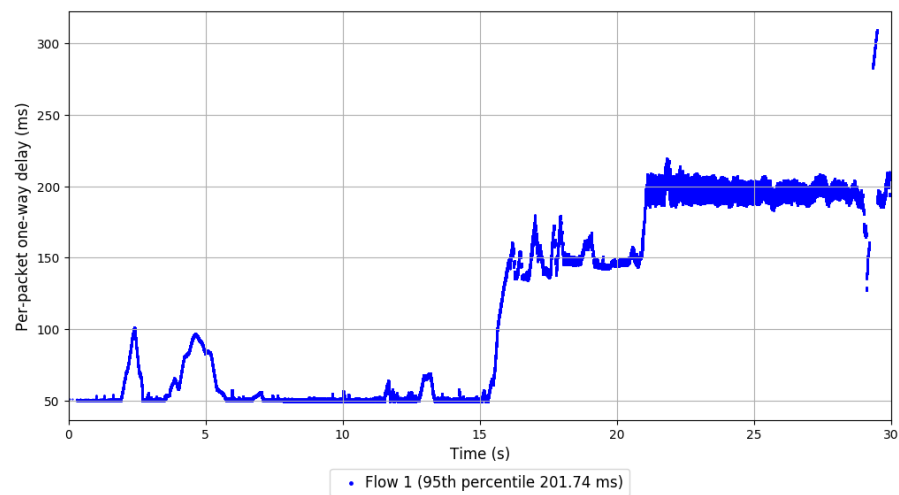
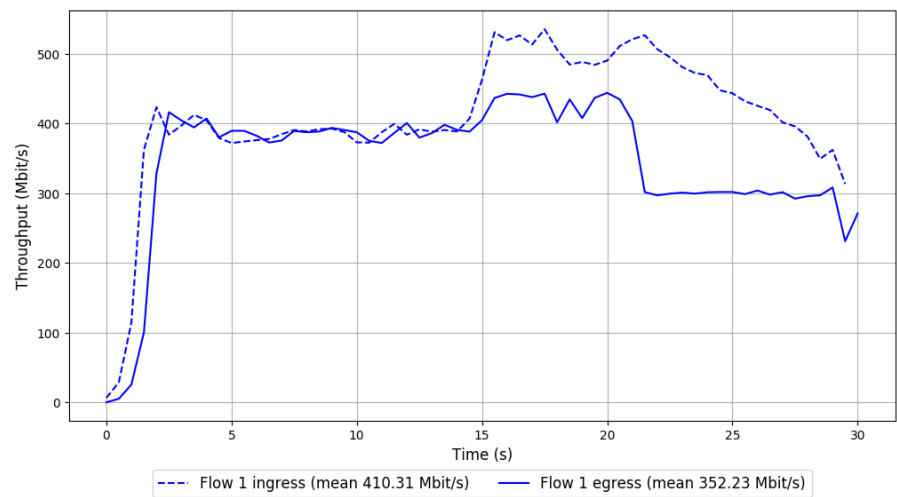


Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 22:36:13  
End at: 2018-05-25 22:36:43  
Local clock offset: -0.587 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-26 02:07:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 352.23 Mbit/s  
95th percentile per-packet one-way delay: 201.743 ms  
Loss rate: 14.15%  
-- Flow 1:  
Average throughput: 352.23 Mbit/s  
95th percentile per-packet one-way delay: 201.743 ms  
Loss rate: 14.15%

Run 4: Report of PCC-Expr — Data Link

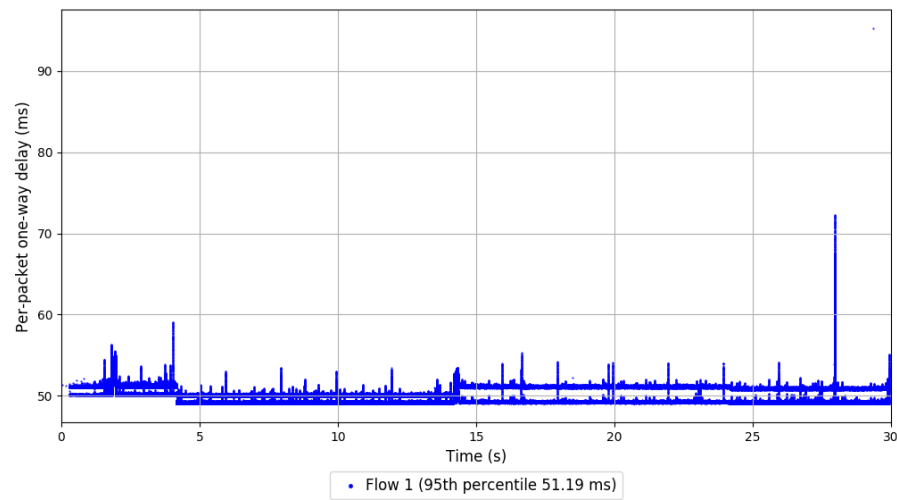
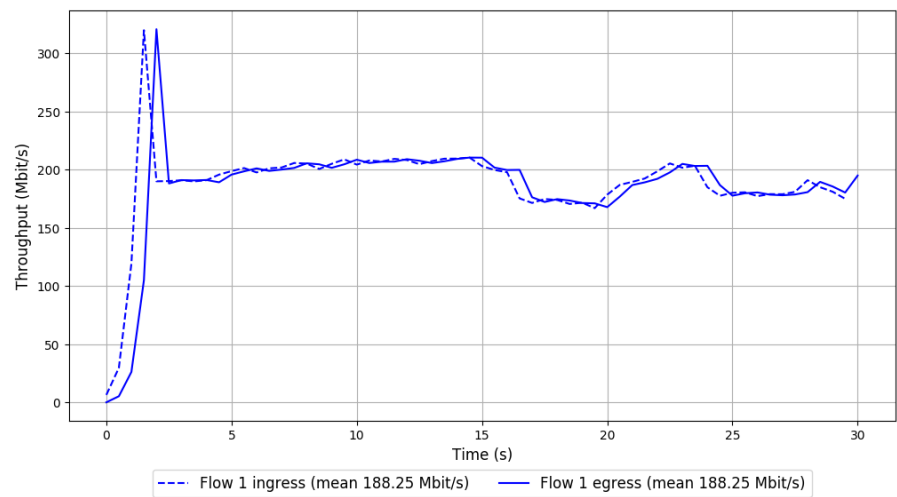


Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 22:56:57  
End at: 2018-05-25 22:57:27  
Local clock offset: -0.565 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2018-05-26 02:07:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 188.25 Mbit/s  
95th percentile per-packet one-way delay: 51.194 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 188.25 Mbit/s  
95th percentile per-packet one-way delay: 51.194 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link

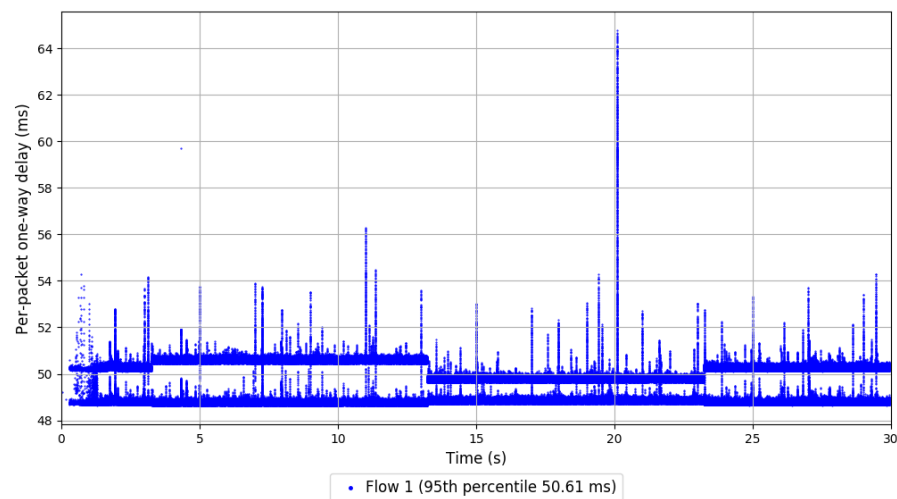
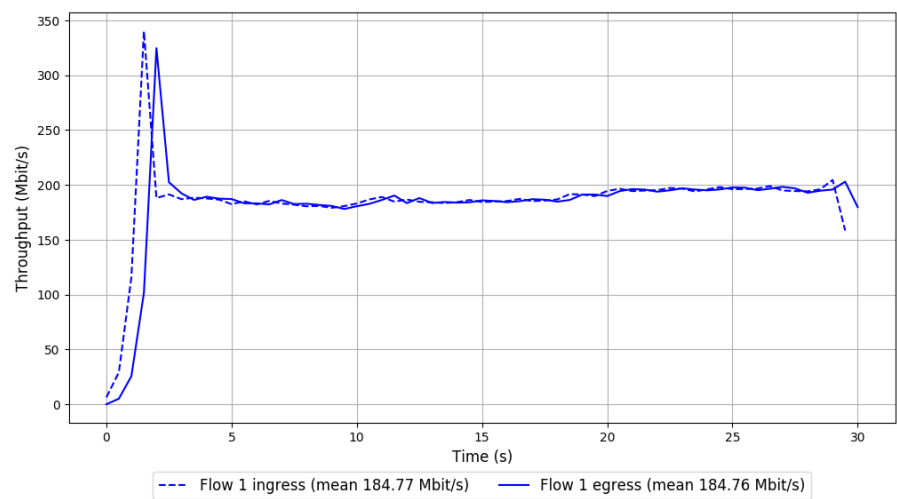


Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 23:17:18  
End at: 2018-05-25 23:17:48  
Local clock offset: -0.162 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-05-26 02:07:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 184.76 Mbit/s  
95th percentile per-packet one-way delay: 50.612 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 184.76 Mbit/s  
95th percentile per-packet one-way delay: 50.612 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Expr — Data Link



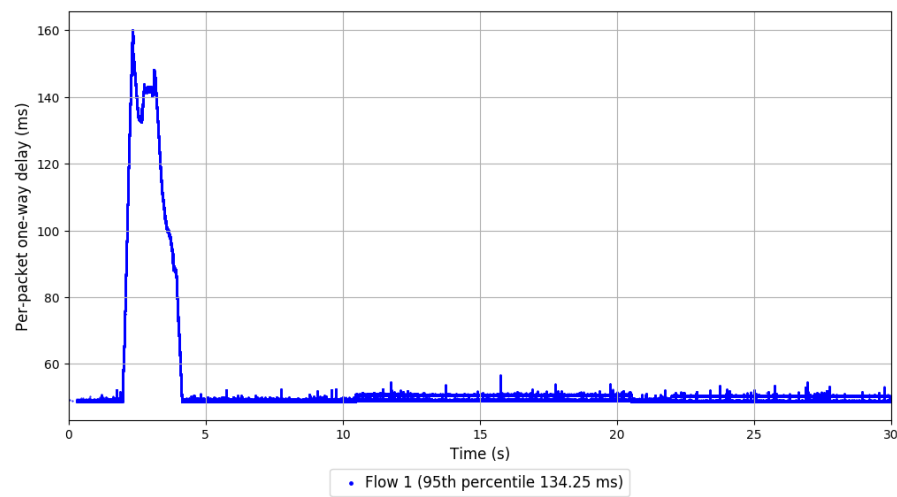
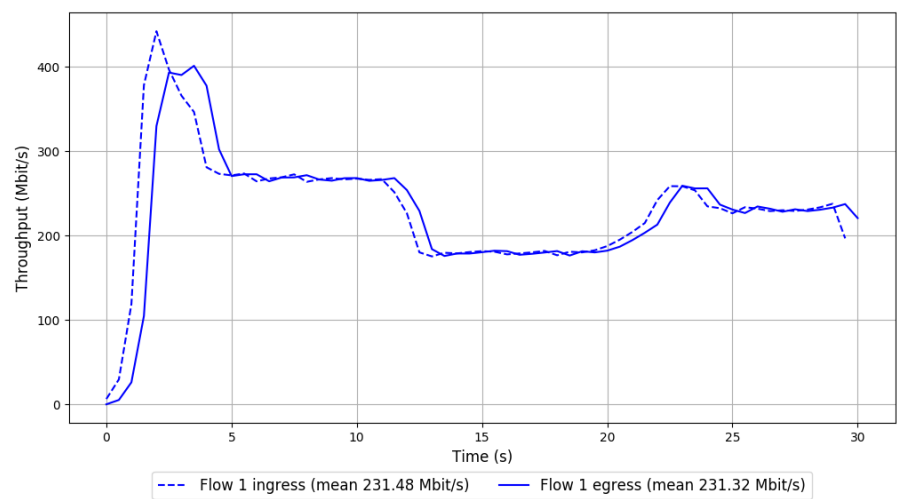
Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 23:37:39  
End at: 2018-05-25 23:38:09  
Local clock offset: -0.178 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-05-26 02:09:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 231.32 Mbit/s  
95th percentile per-packet one-way delay: 134.253 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 231.32 Mbit/s  
95th percentile per-packet one-way delay: 134.253 ms  
Loss rate: 0.07%



Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 23:58:14

End at: 2018-05-25 23:58:44

Local clock offset: -0.129 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2018-05-26 02:09:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 166.96 Mbit/s

95th percentile per-packet one-way delay: 50.763 ms

Loss rate: 0.01%

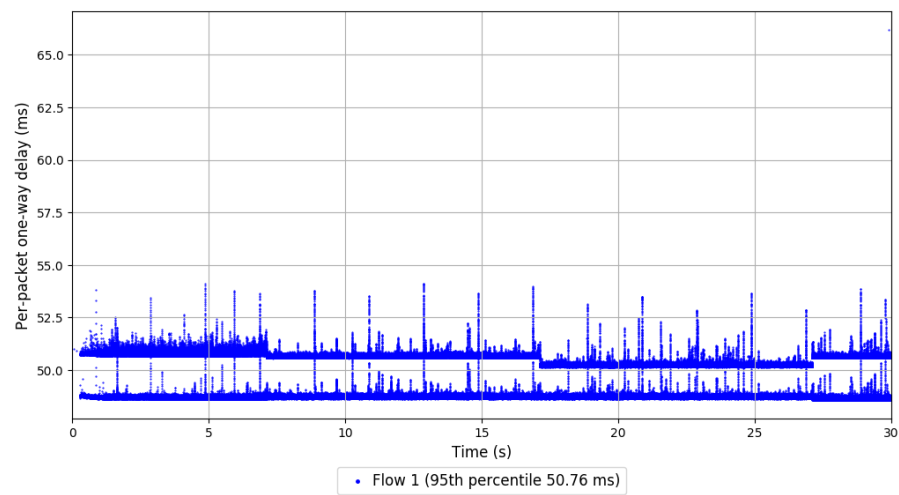
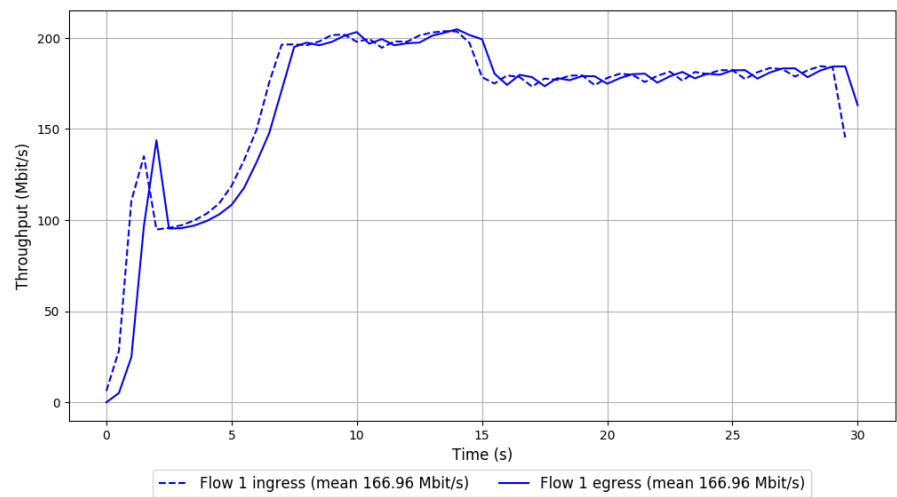
-- Flow 1:

Average throughput: 166.96 Mbit/s

95th percentile per-packet one-way delay: 50.763 ms

Loss rate: 0.01%

Run 8: Report of PCC-Expr — Data Link

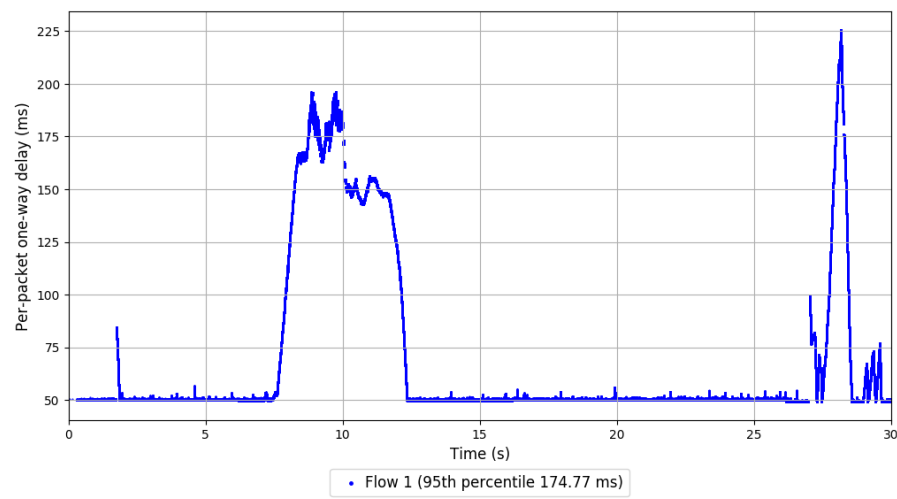
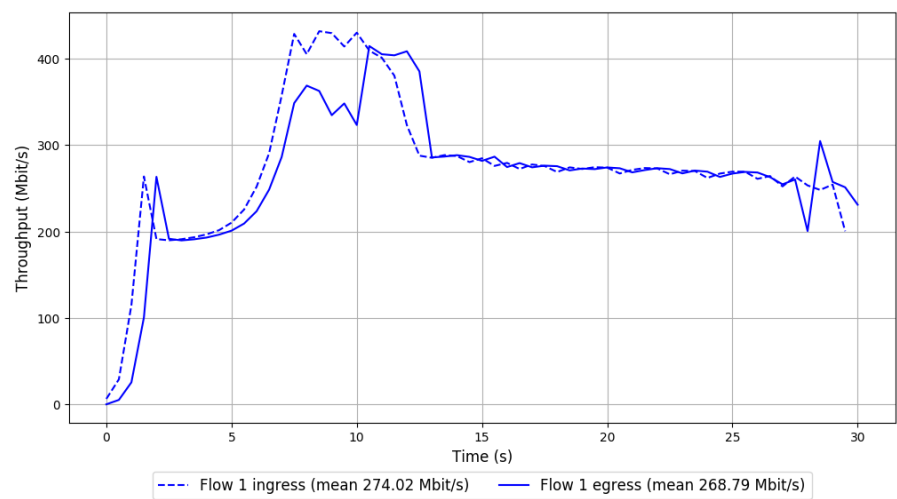


Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 00:18:35  
End at: 2018-05-26 00:19:05  
Local clock offset: 0.133 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2018-05-26 02:11:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 268.79 Mbit/s  
95th percentile per-packet one-way delay: 174.767 ms  
Loss rate: 1.91%  
-- Flow 1:  
Average throughput: 268.79 Mbit/s  
95th percentile per-packet one-way delay: 174.767 ms  
Loss rate: 1.91%

Run 9: Report of PCC-Expr — Data Link

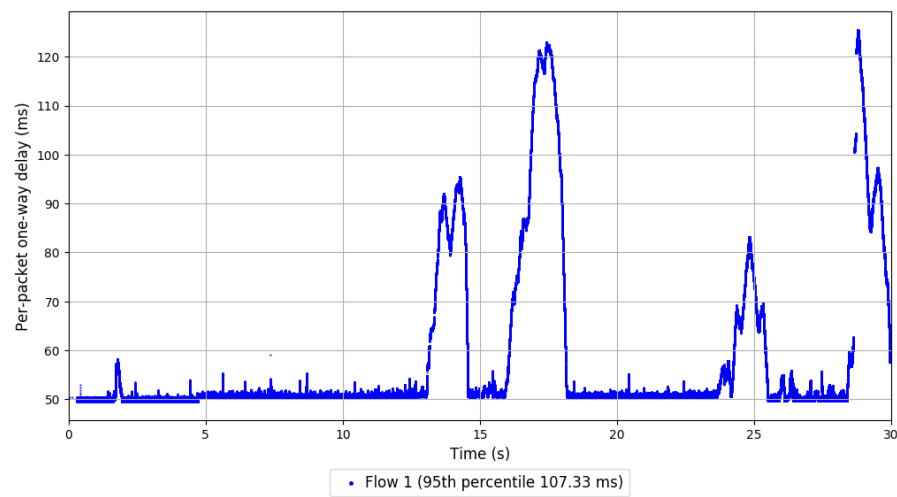
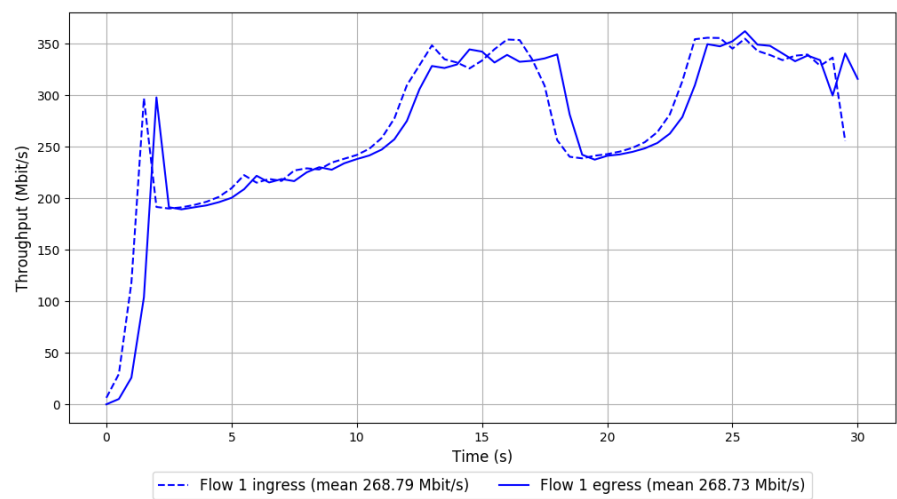


Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 00:39:06  
End at: 2018-05-26 00:39:36  
Local clock offset: -0.242 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 268.73 Mbit/s  
95th percentile per-packet one-way delay: 107.325 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 268.73 Mbit/s  
95th percentile per-packet one-way delay: 107.325 ms  
Loss rate: 0.03%

Run 10: Report of PCC-Expr — Data Link



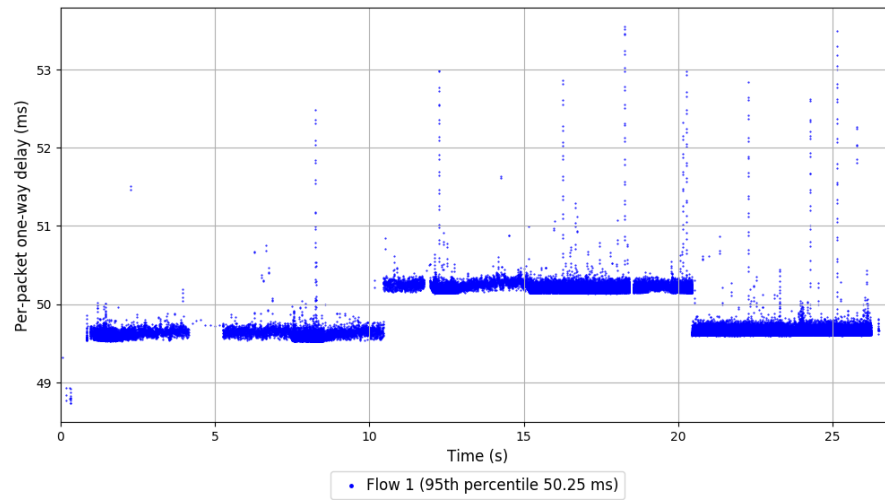
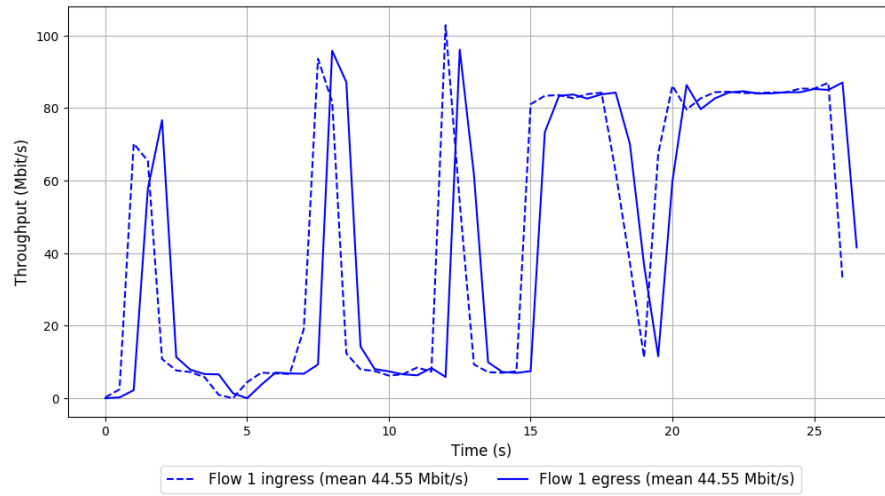
Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 21:48:47  
End at: 2018-05-25 21:49:17  
Local clock offset: -0.191 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 44.55 Mbit/s  
95th percentile per-packet one-way delay: 50.247 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 44.55 Mbit/s  
95th percentile per-packet one-way delay: 50.247 ms  
Loss rate: 0.00%



## Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

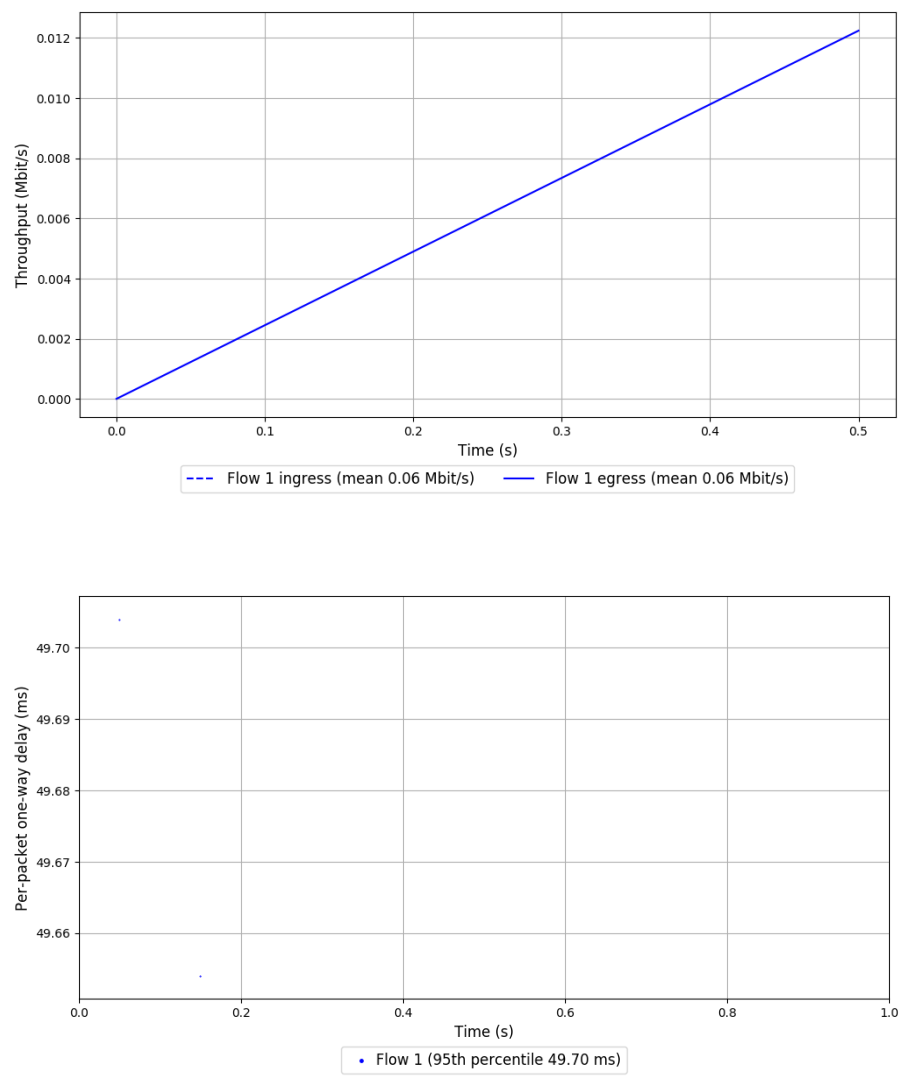
Start at: 2018-05-25 22:09:24

End at: 2018-05-25 22:09:54

Local clock offset: -0.109 ms

Remote clock offset: -0.156 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-05-25 22:29:59

End at: 2018-05-25 22:30:29

Local clock offset: 0.195 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.00%

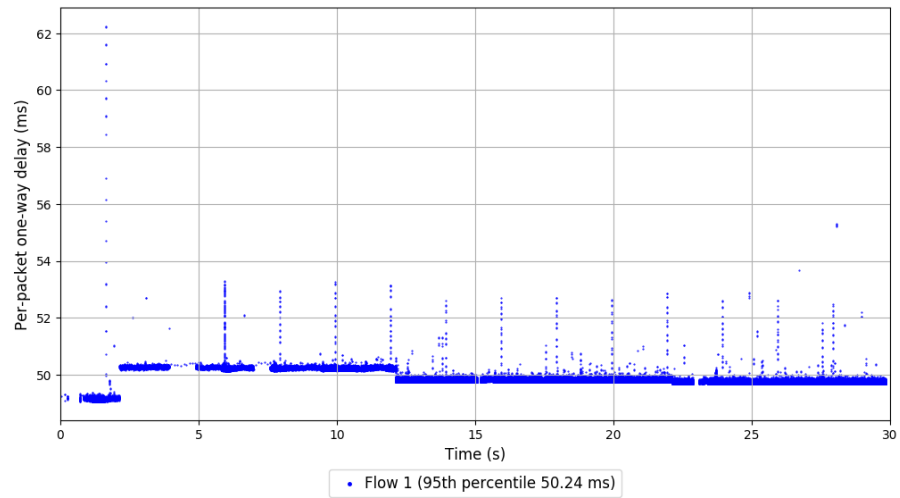
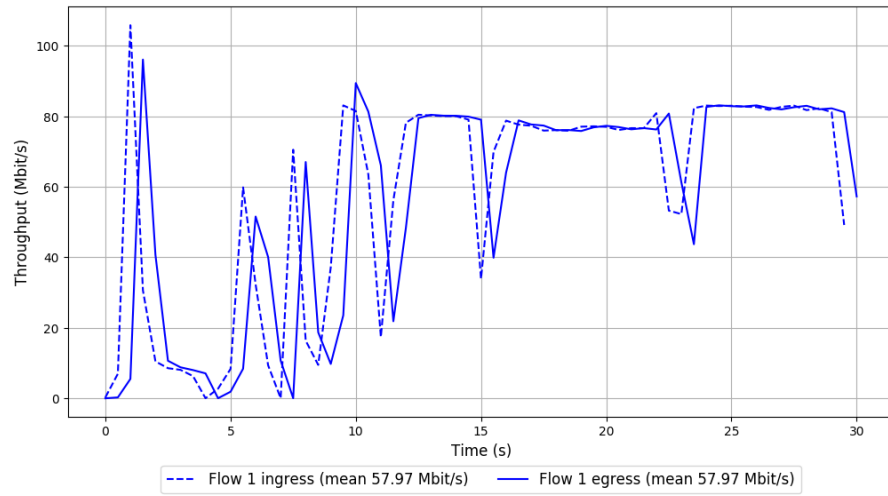
-- Flow 1:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 50.237 ms

Loss rate: 0.00%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 22:50:41

End at: 2018-05-25 22:51:11

Local clock offset: -0.205 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 0.00%

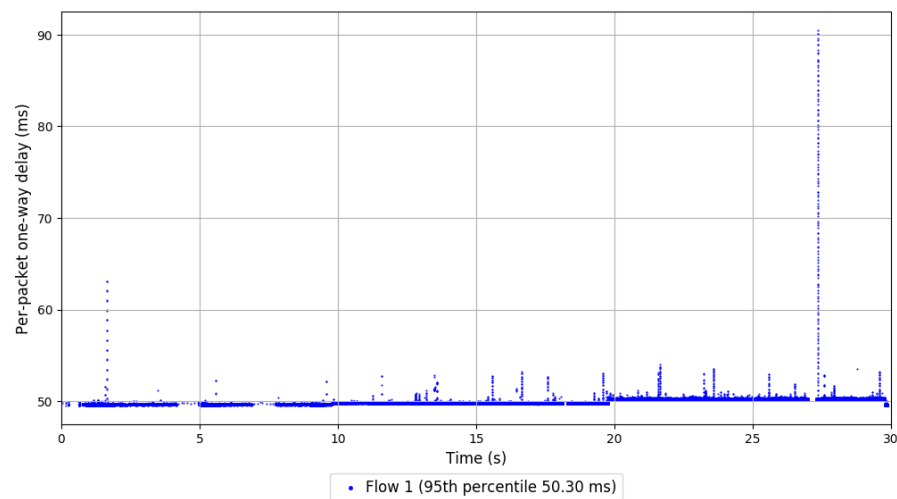
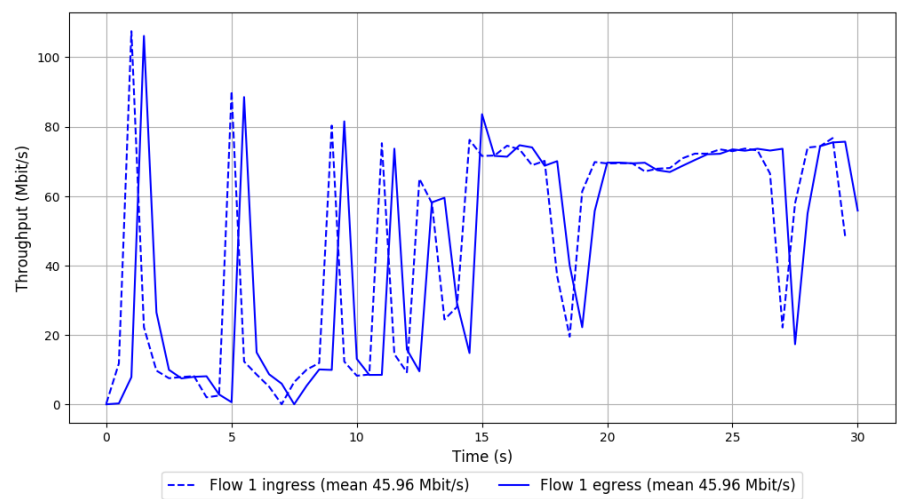
-- Flow 1:

Average throughput: 45.96 Mbit/s

95th percentile per-packet one-way delay: 50.295 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



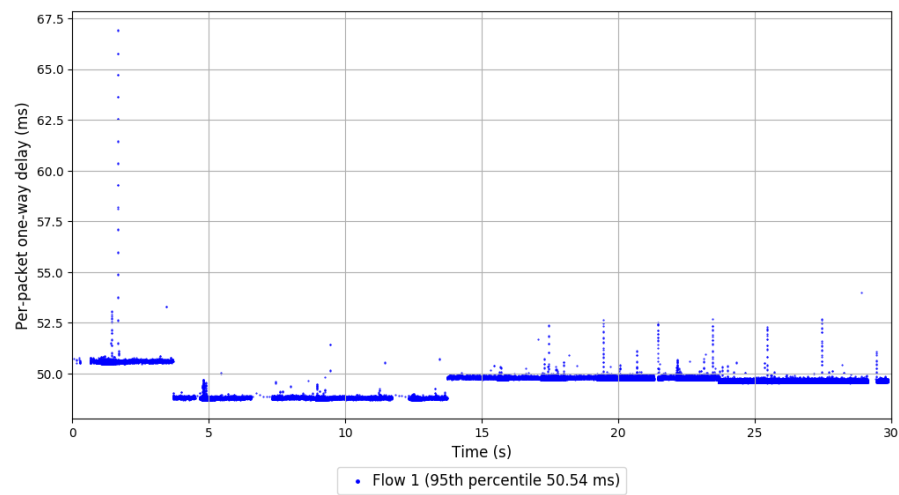
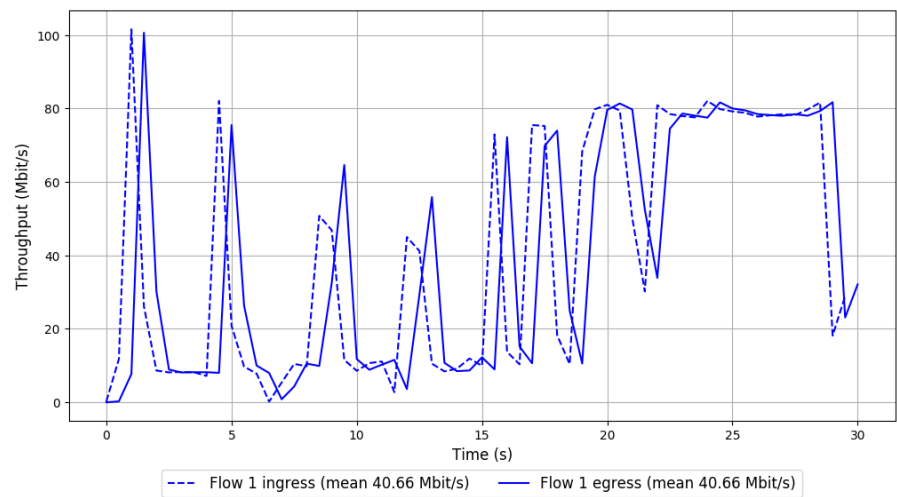
Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 23:10:57  
End at: 2018-05-25 23:11:27  
Local clock offset: -0.207 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.66 Mbit/s  
95th percentile per-packet one-way delay: 50.542 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 40.66 Mbit/s  
95th percentile per-packet one-way delay: 50.542 ms  
Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 23:31:23

End at: 2018-05-25 23:31:53

Local clock offset: -0.545 ms

Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

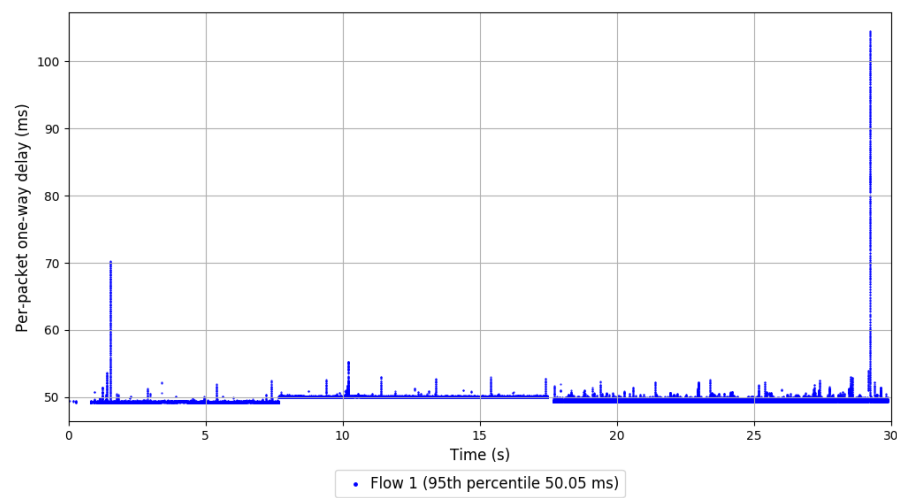
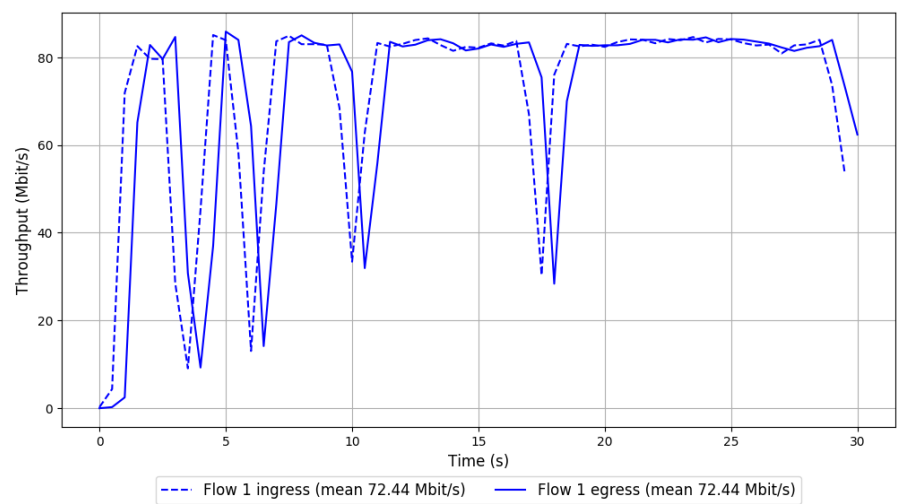
-- Flow 1:

Average throughput: 72.44 Mbit/s

95th percentile per-packet one-way delay: 50.046 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

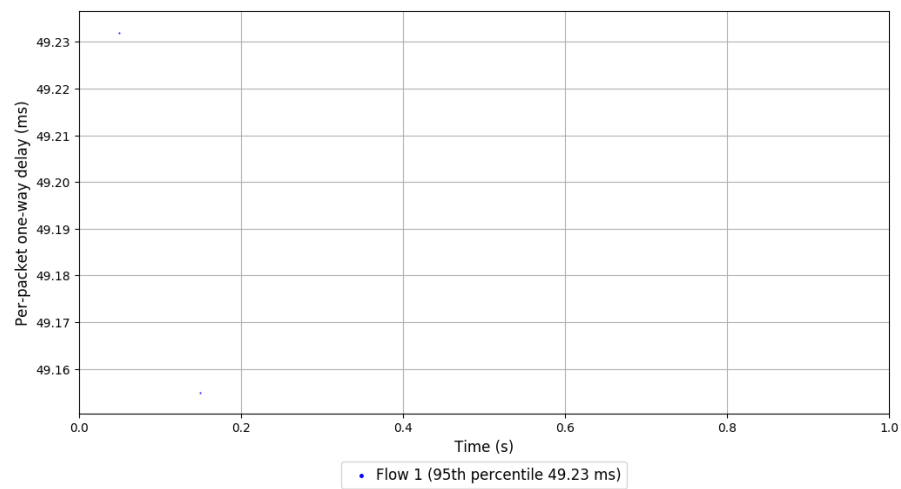
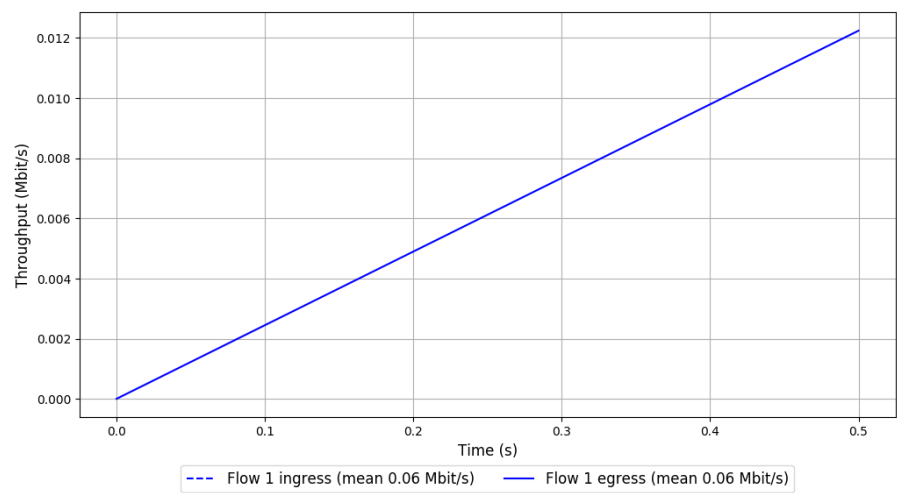
Start at: 2018-05-25 23:51:55

End at: 2018-05-25 23:52:25

Local clock offset: -0.167 ms

Remote clock offset: 0.058 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

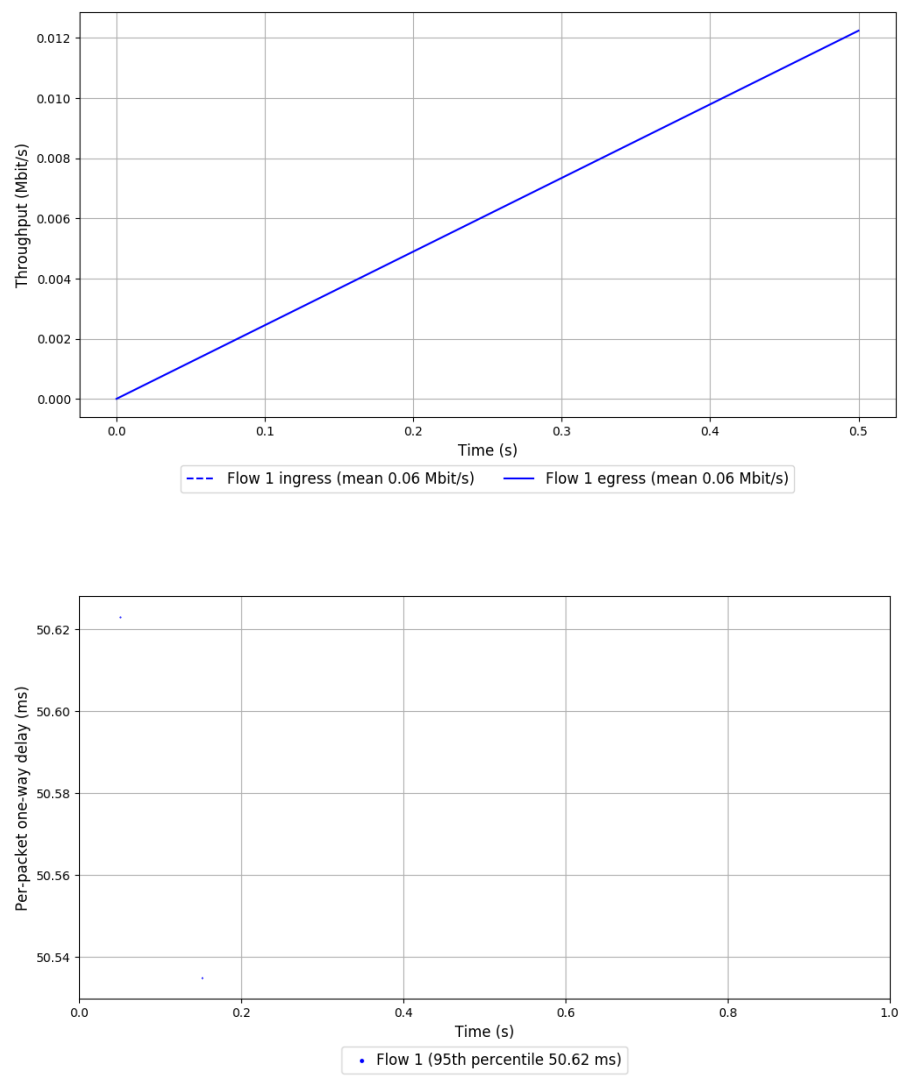
Start at: 2018-05-26 00:12:22

End at: 2018-05-26 00:12:52

Local clock offset: -0.187 ms

Remote clock offset: -0.002 ms

Run 8: Report of QUIC Cubic — Data Link



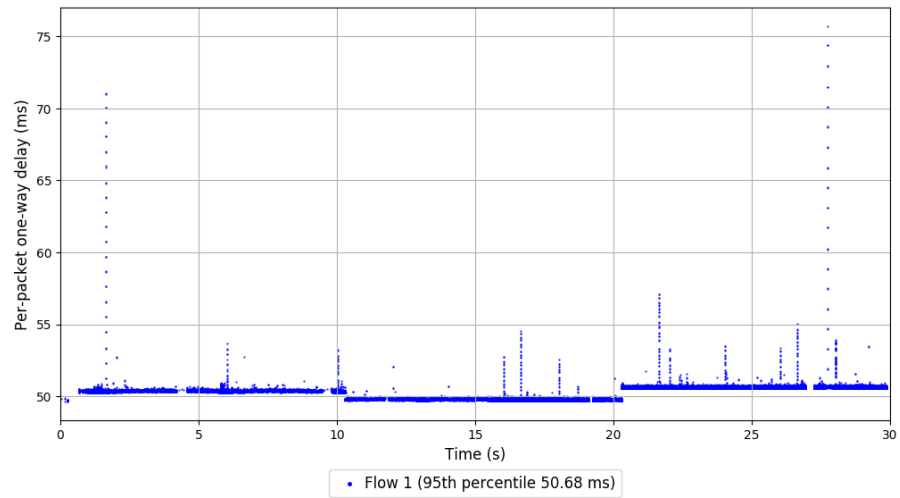
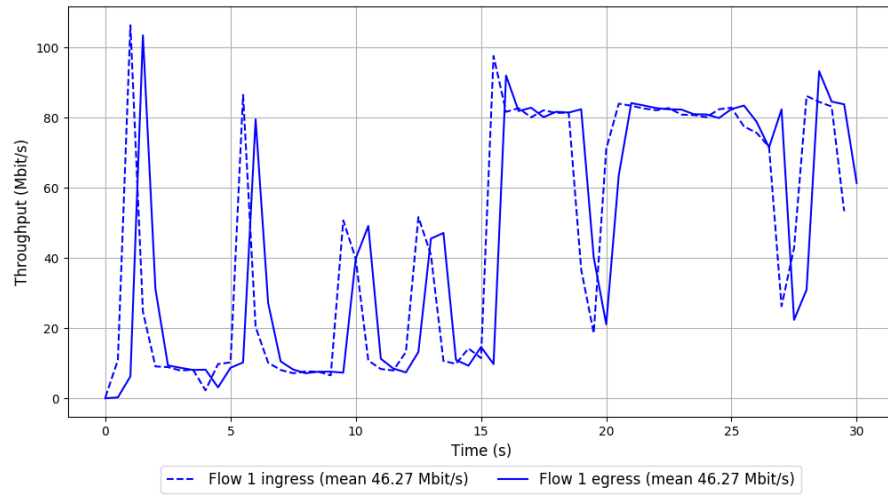
Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 00:32:51  
End at: 2018-05-26 00:33:21  
Local clock offset: -0.266 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 46.27 Mbit/s  
95th percentile per-packet one-way delay: 50.683 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.27 Mbit/s  
95th percentile per-packet one-way delay: 50.683 ms  
Loss rate: 0.00%



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



Run 10: Statistics of QUIC Cubic

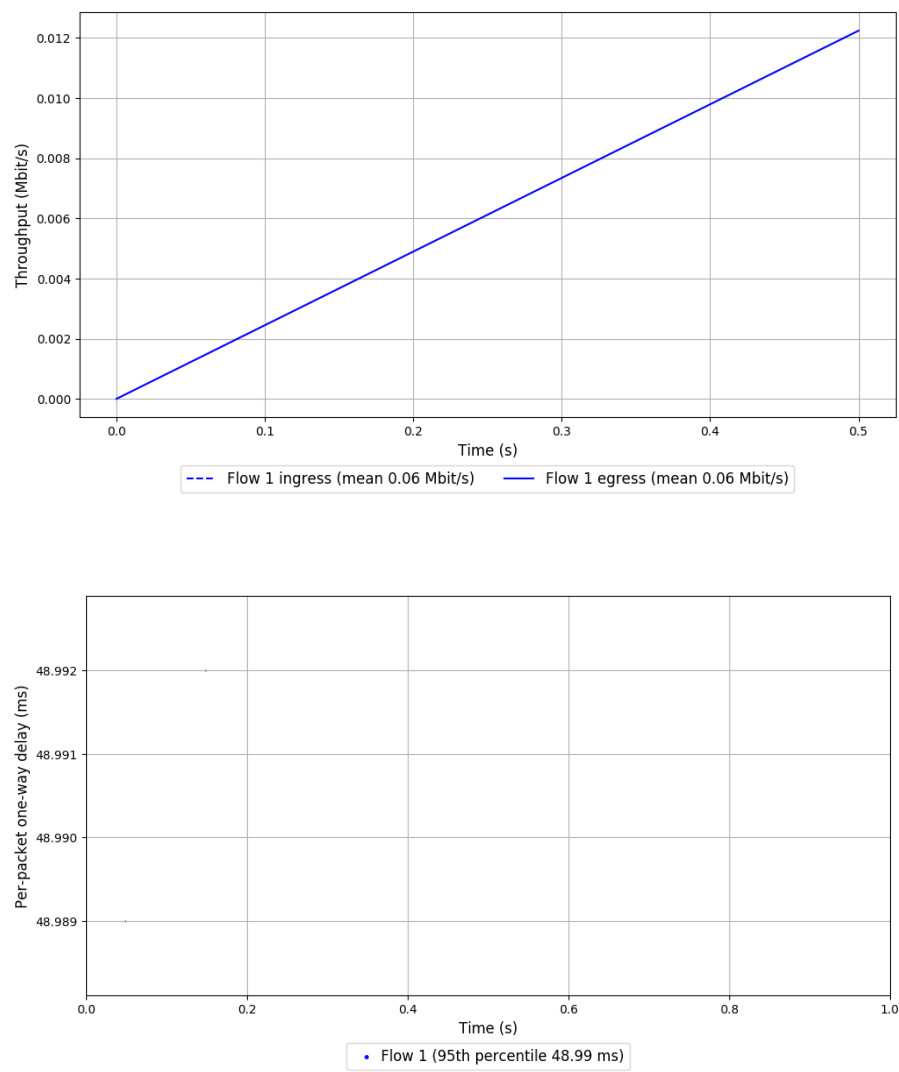
Start at: 2018-05-26 00:53:23

End at: 2018-05-26 00:53:53

Local clock offset: -0.227 ms

Remote clock offset: -0.084 ms

Run 10: Report of QUIC Cubic — Data Link

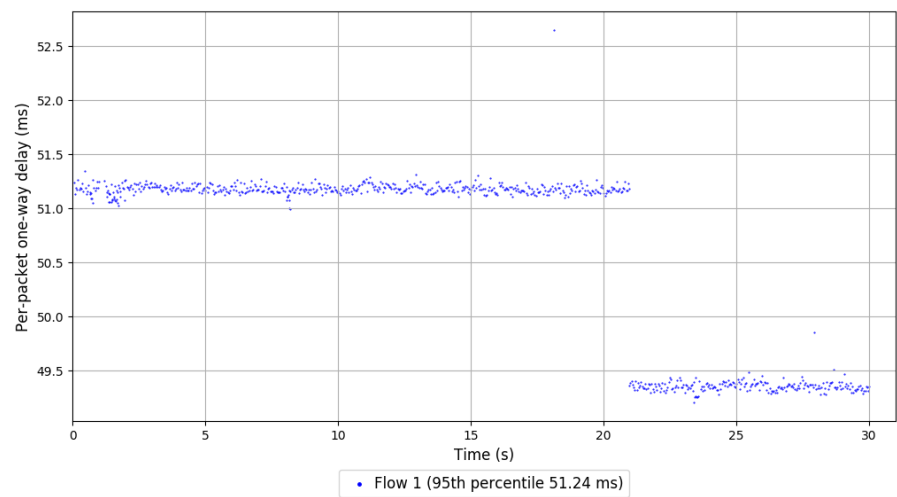
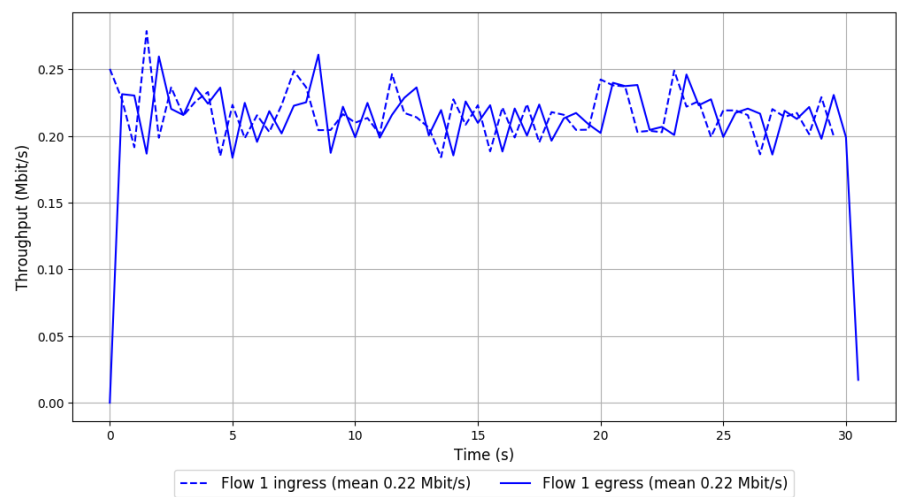


Run 1: Statistics of SCReAM

Start at: 2018-05-25 21:42:40  
End at: 2018-05-25 21:43:10  
Local clock offset: -0.582 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.241 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 51.241 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

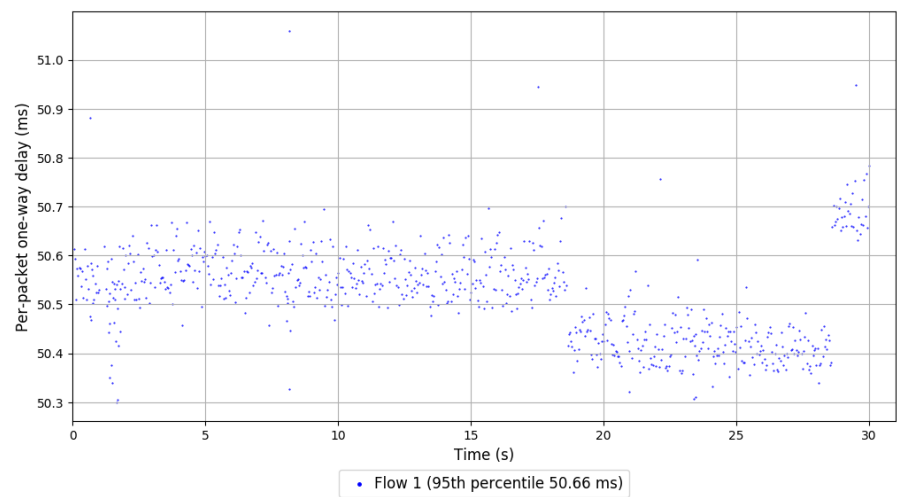
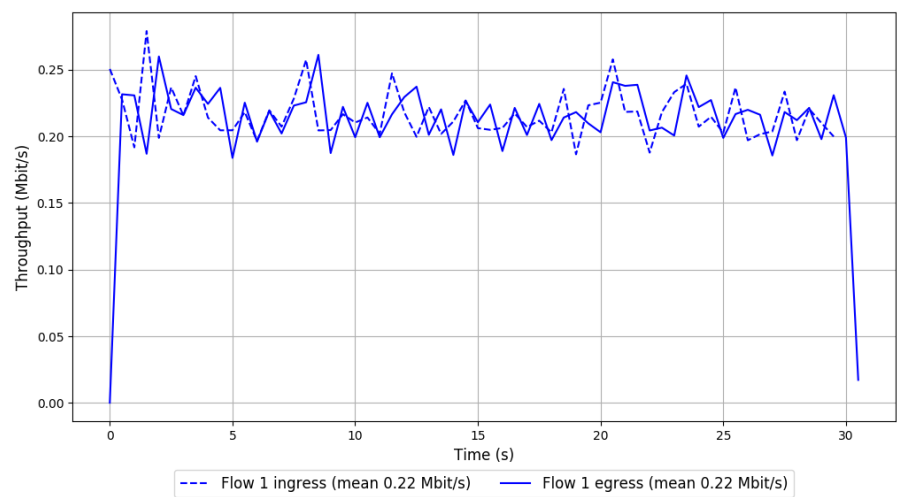


Run 2: Statistics of SCReAM

Start at: 2018-05-25 22:03:22  
End at: 2018-05-25 22:03:52  
Local clock offset: -0.177 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.662 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.662 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



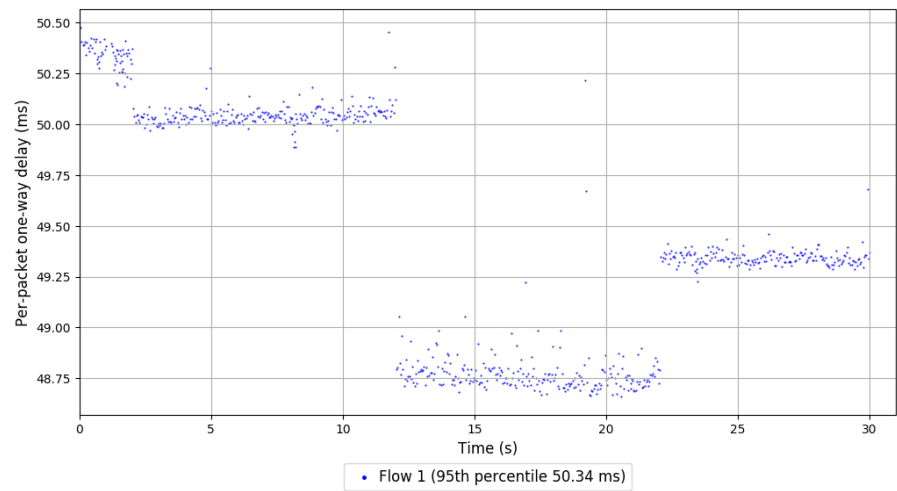
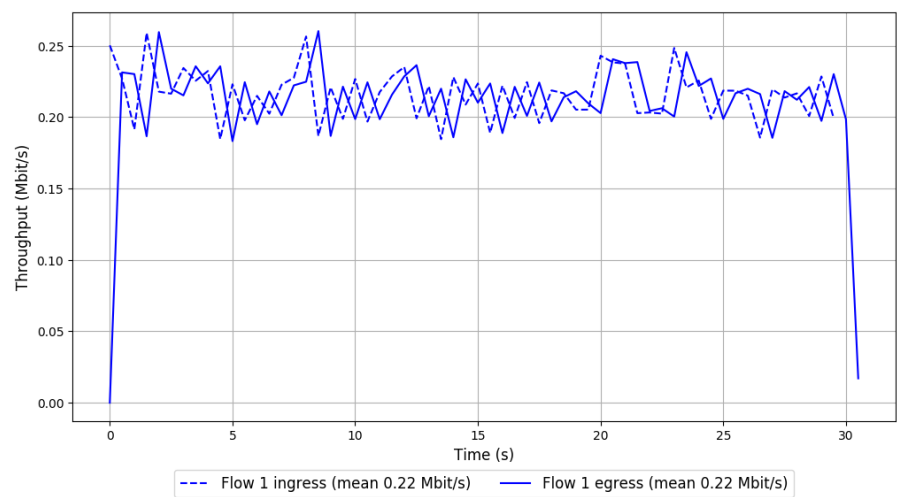
Run 3: Statistics of SCReAM

Start at: 2018-05-25 22:23:59  
End at: 2018-05-25 22:24:29  
Local clock offset: 0.228 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.337 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.337 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-25 22:44:33

End at: 2018-05-25 22:45:03

Local clock offset: -0.173 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.00%

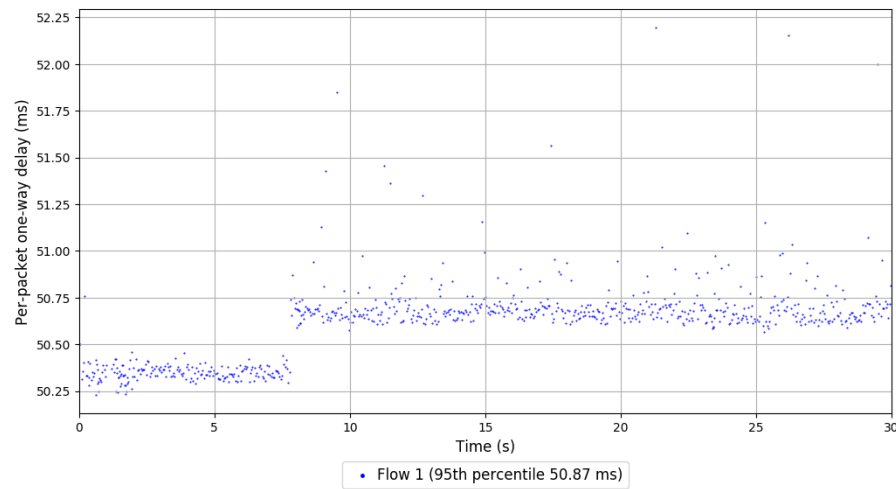
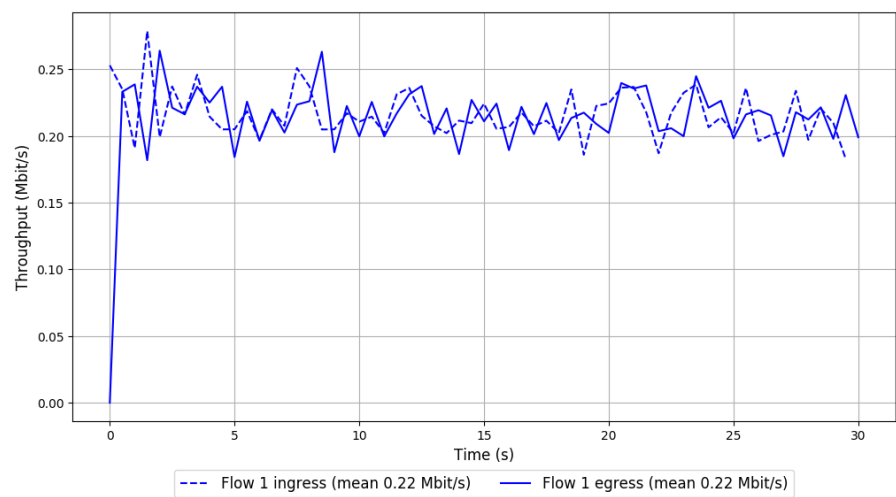
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.868 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

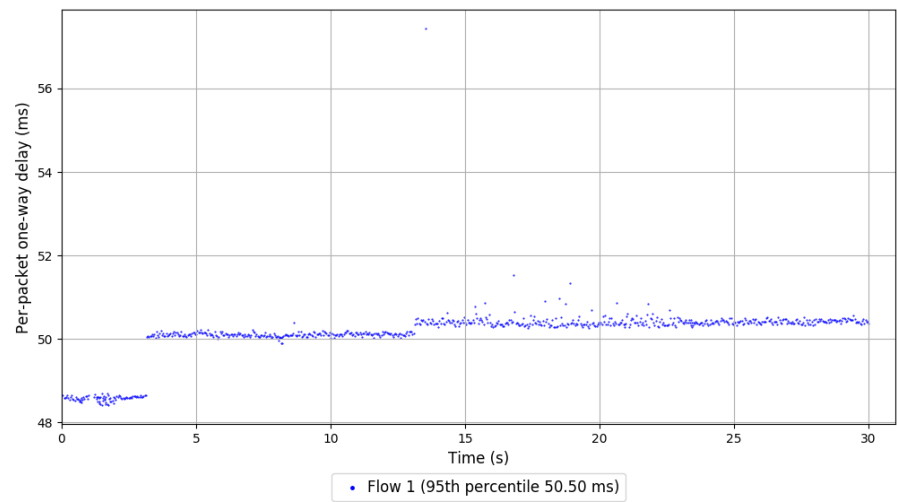
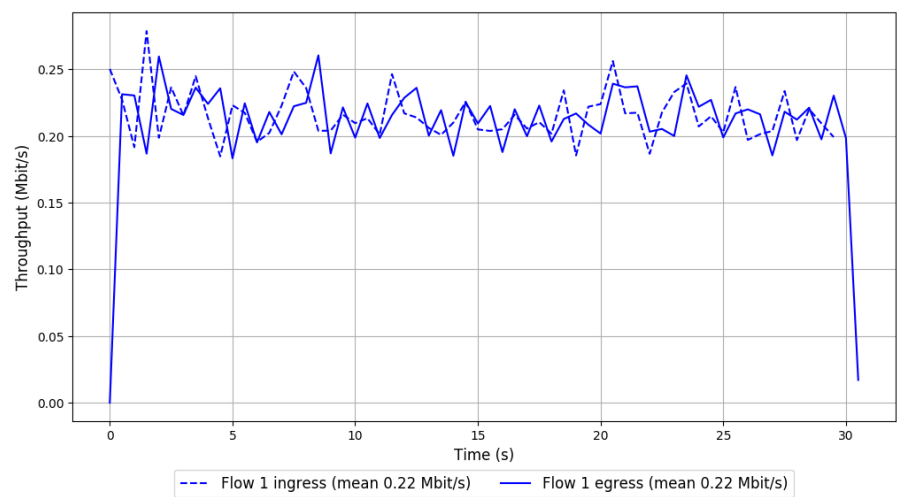


Run 5: Statistics of SCReAM

Start at: 2018-05-25 23:04:58  
End at: 2018-05-25 23:05:28  
Local clock offset: 0.204 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.501 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 50.501 ms  
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

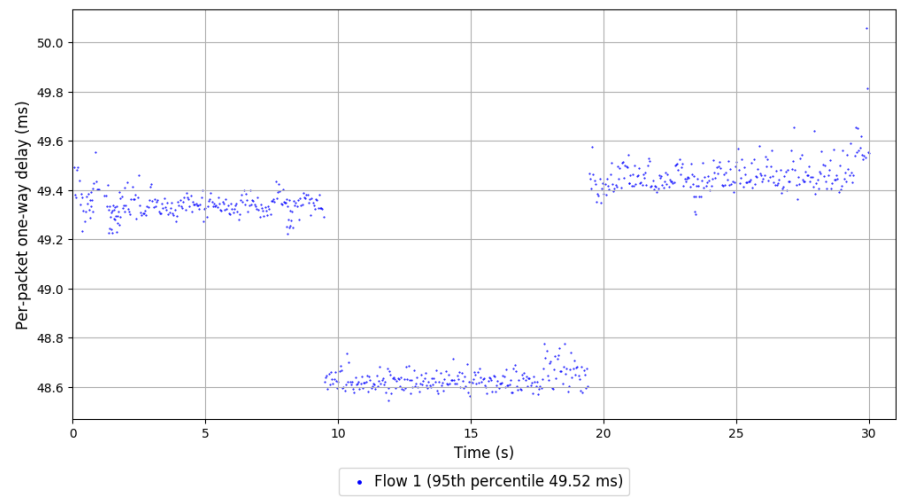
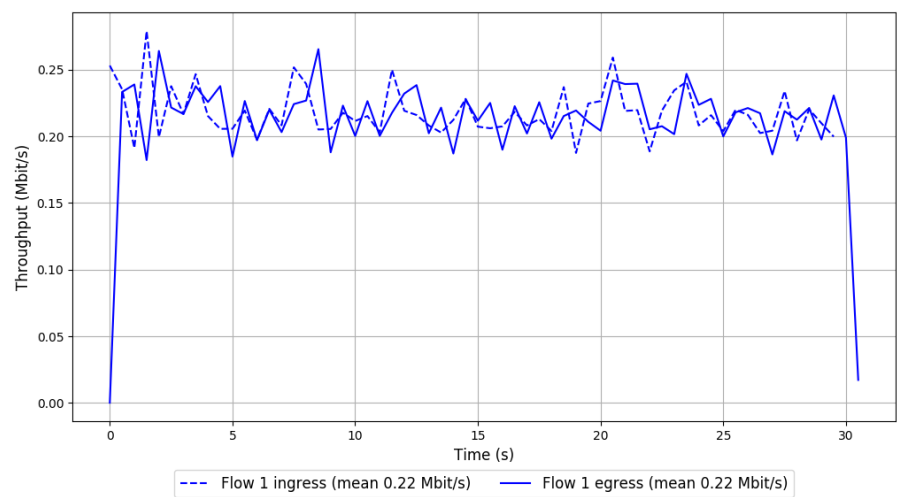


Run 6: Statistics of SCReAM

Start at: 2018-05-25 23:25:22  
End at: 2018-05-25 23:25:52  
Local clock offset: 0.189 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.520 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.520 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-25 23:45:51

End at: 2018-05-25 23:46:21

Local clock offset: -0.183 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.887 ms

Loss rate: 0.00%

-- Flow 1:

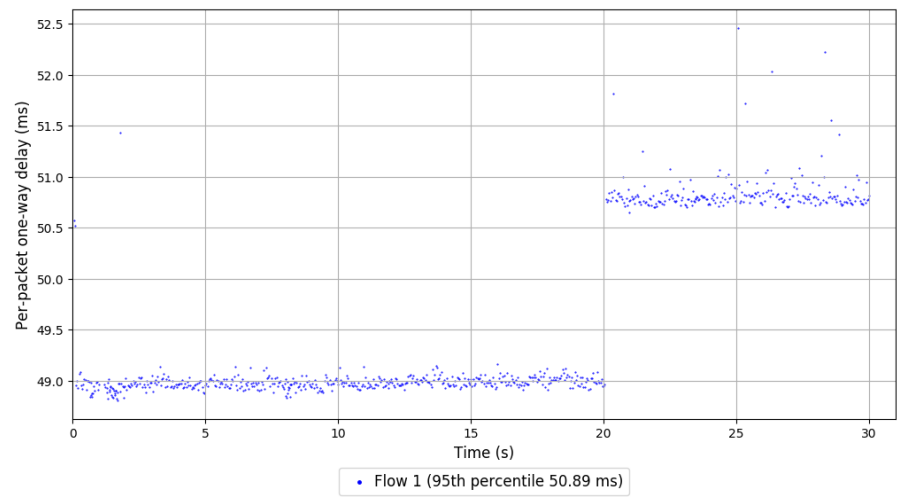
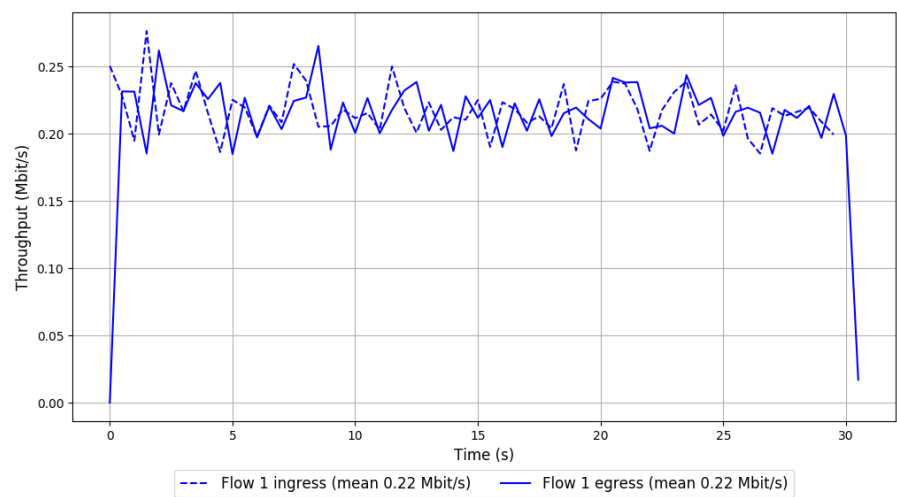
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.887 ms

Loss rate: 0.00%



Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

Start at: 2018-05-26 00:06:15

End at: 2018-05-26 00:06:45

Local clock offset: -0.194 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.00%

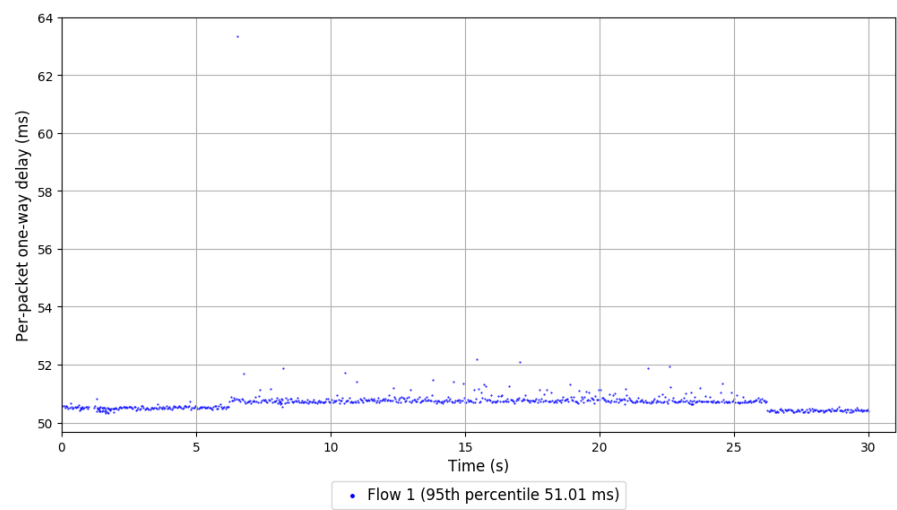
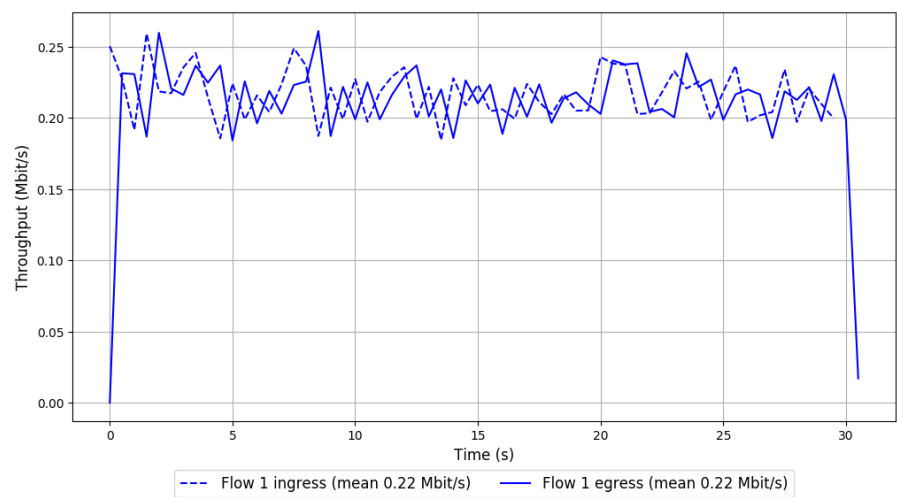
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 51.010 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

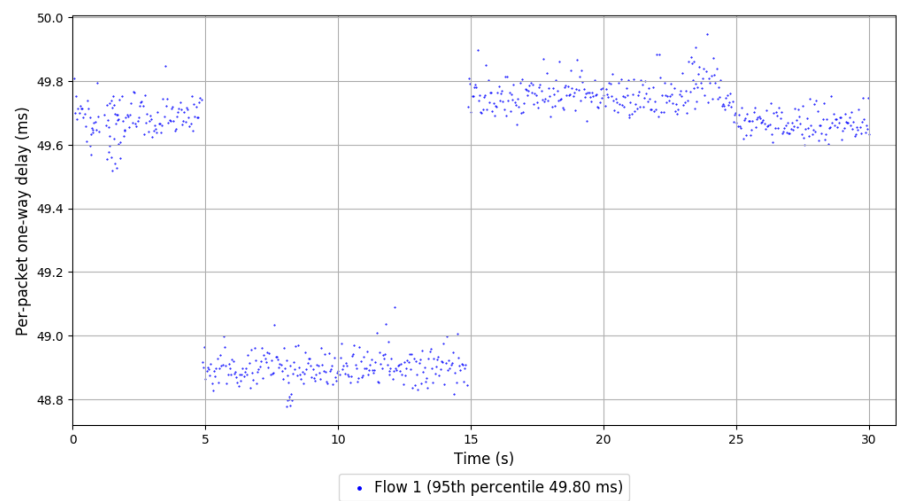
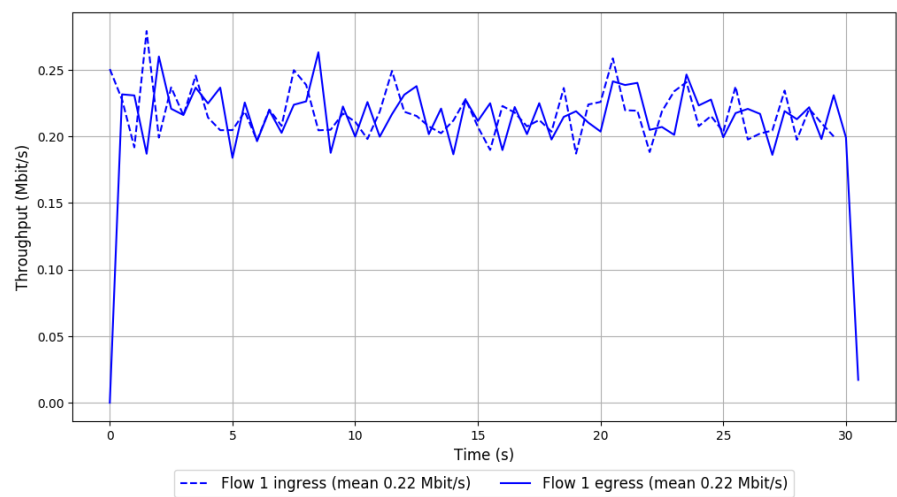


Run 9: Statistics of SCReAM

Start at: 2018-05-26 00:26:46  
End at: 2018-05-26 00:27:16  
Local clock offset: -0.223 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.804 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 49.804 ms  
Loss rate: 0.00%

Run 9: Report of SCReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-26 00:47:17

End at: 2018-05-26 00:47:47

Local clock offset: -0.254 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 0.00%

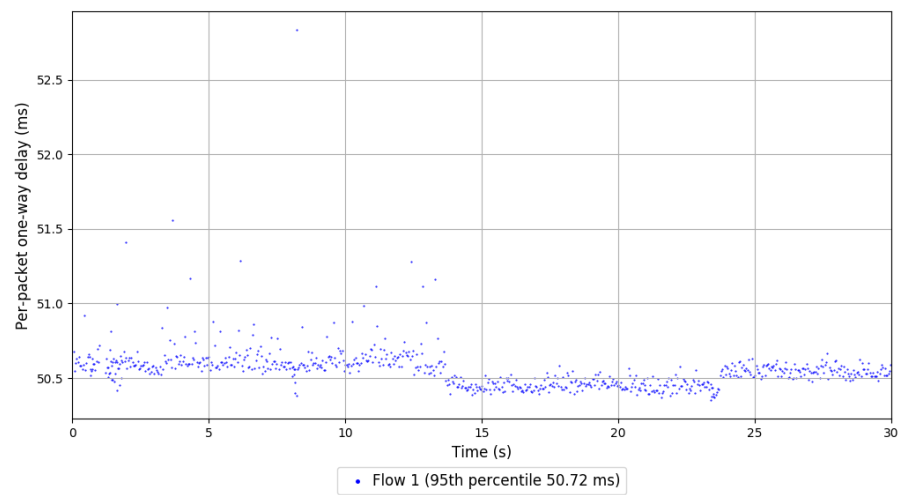
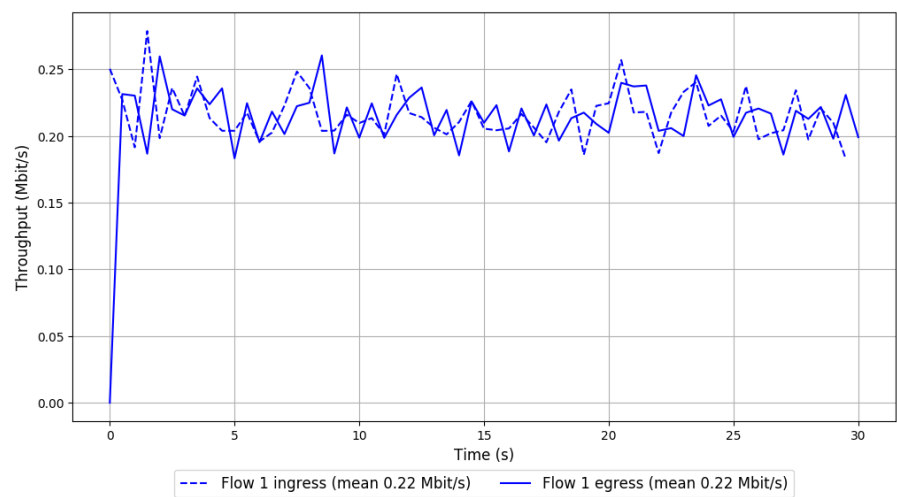
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.719 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



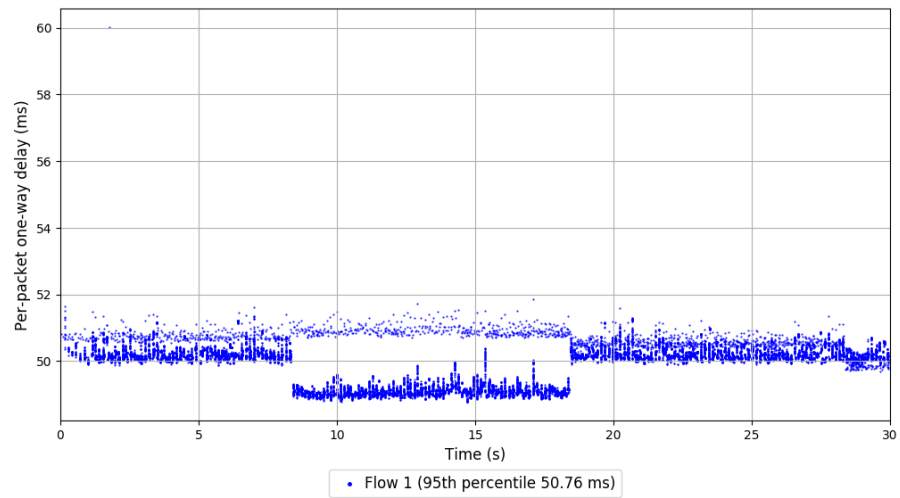
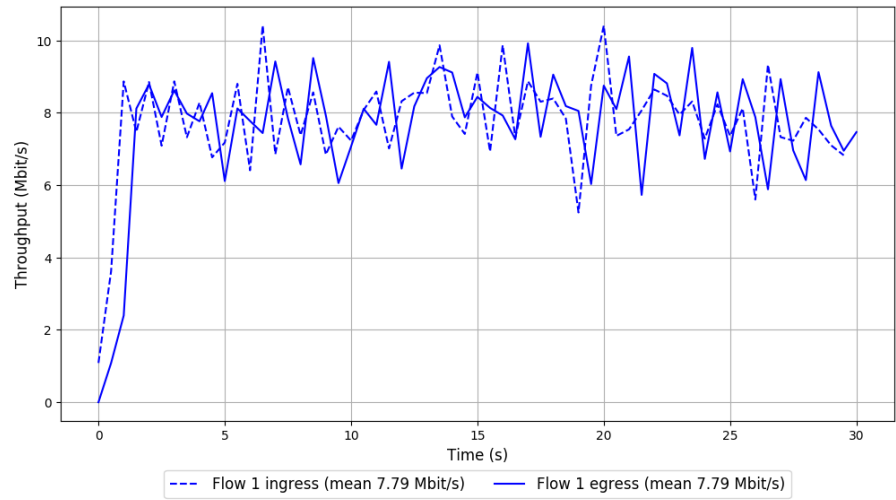
Run 1: Statistics of Sprout

Start at: 2018-05-25 21:38:43  
End at: 2018-05-25 21:39:13  
Local clock offset: -0.198 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.79 Mbit/s  
95th percentile per-packet one-way delay: 50.757 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.79 Mbit/s  
95th percentile per-packet one-way delay: 50.757 ms  
Loss rate: 0.00%



# Run 1: Report of Sprout — Data Link

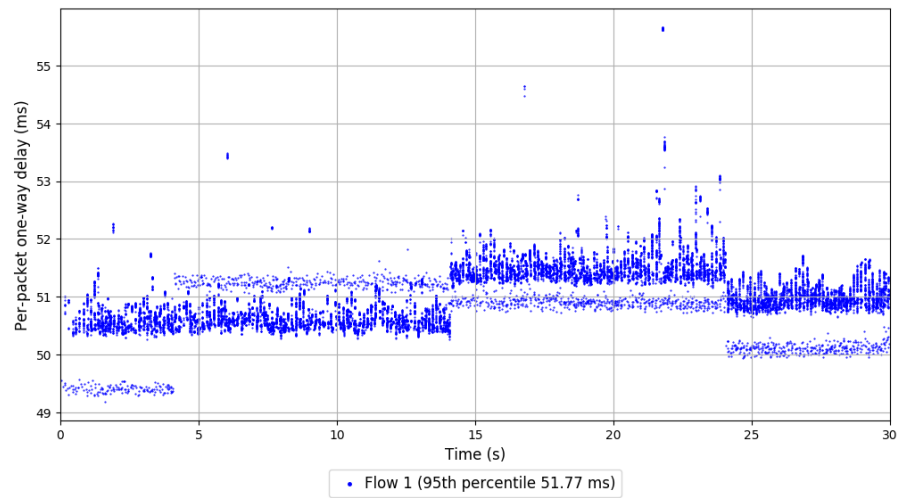
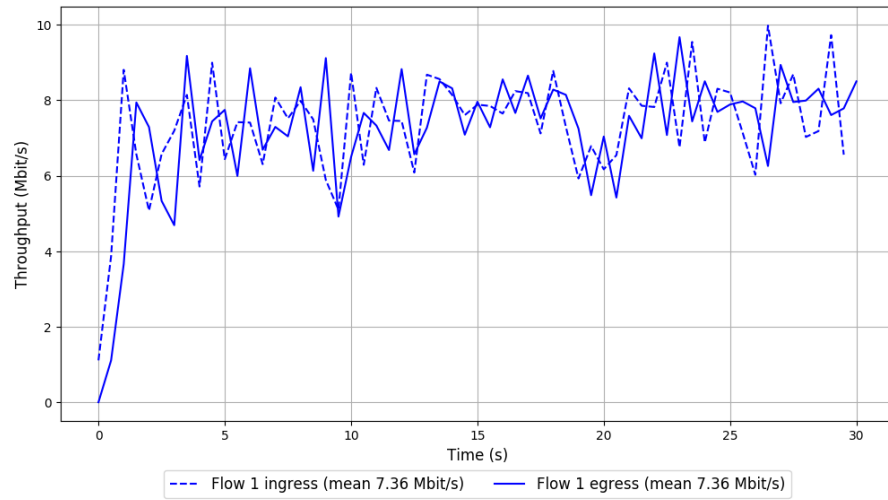


Run 2: Statistics of Sprout

Start at: 2018-05-25 21:59:27  
End at: 2018-05-25 21:59:57  
Local clock offset: -0.569 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.36 Mbit/s  
95th percentile per-packet one-way delay: 51.774 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.36 Mbit/s  
95th percentile per-packet one-way delay: 51.774 ms  
Loss rate: 0.00%

## Run 2: Report of Sprout — Data Link

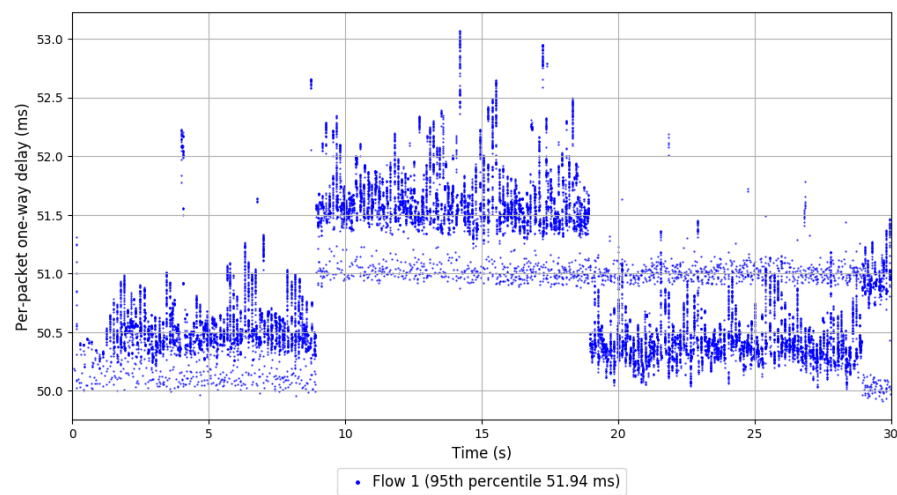
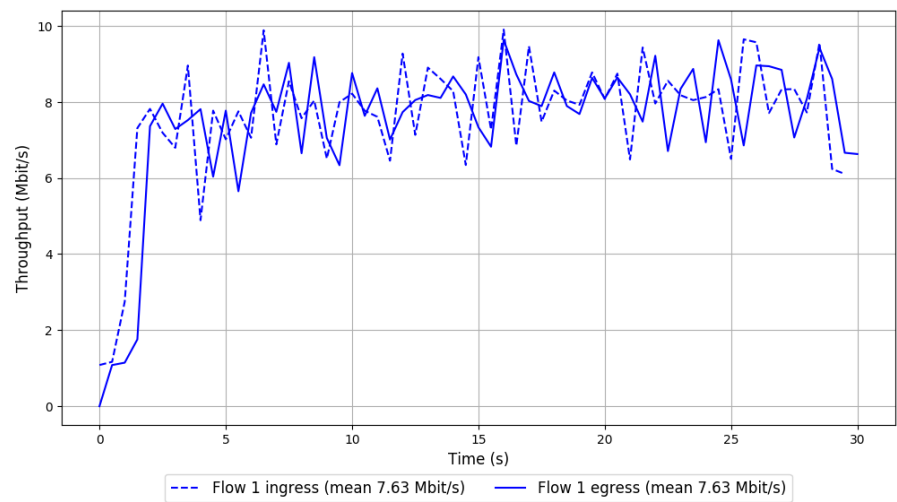


Run 3: Statistics of Sprout

Start at: 2018-05-25 22:20:02  
End at: 2018-05-25 22:20:32  
Local clock offset: -0.55 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.63 Mbit/s  
95th percentile per-packet one-way delay: 51.937 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.63 Mbit/s  
95th percentile per-packet one-way delay: 51.937 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2018-05-25 22:40:36

End at: 2018-05-25 22:41:06

Local clock offset: -0.245 ms

Remote clock offset: 0.029 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 0.00%

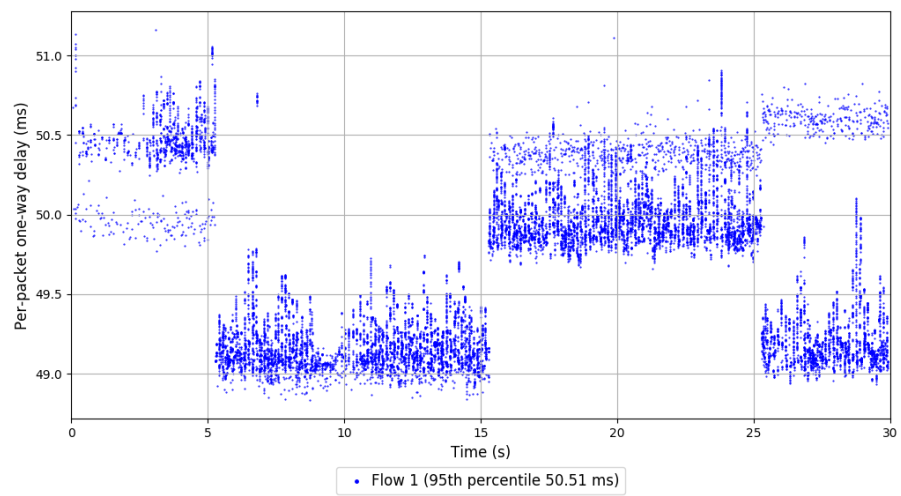
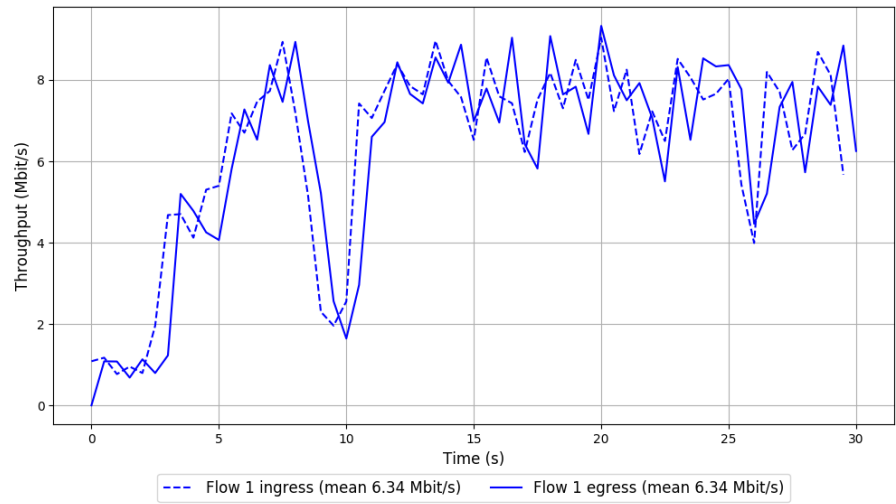
-- Flow 1:

Average throughput: 6.34 Mbit/s

95th percentile per-packet one-way delay: 50.508 ms

Loss rate: 0.00%

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



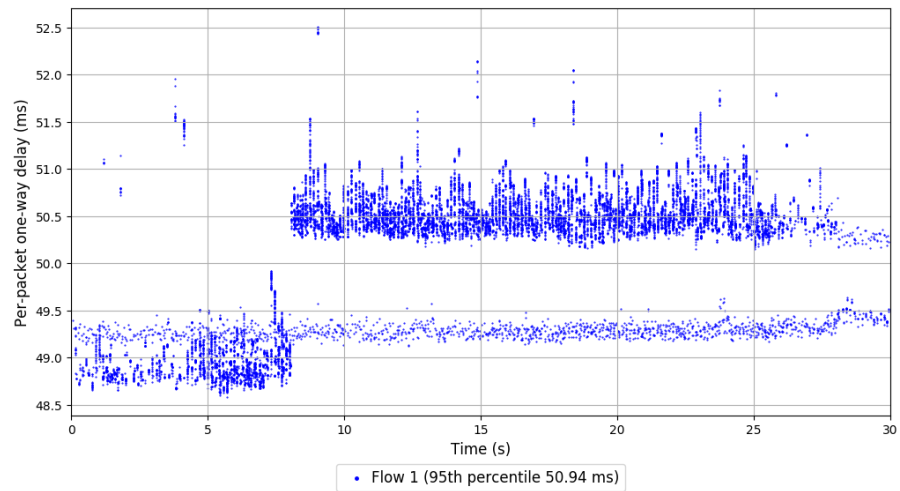
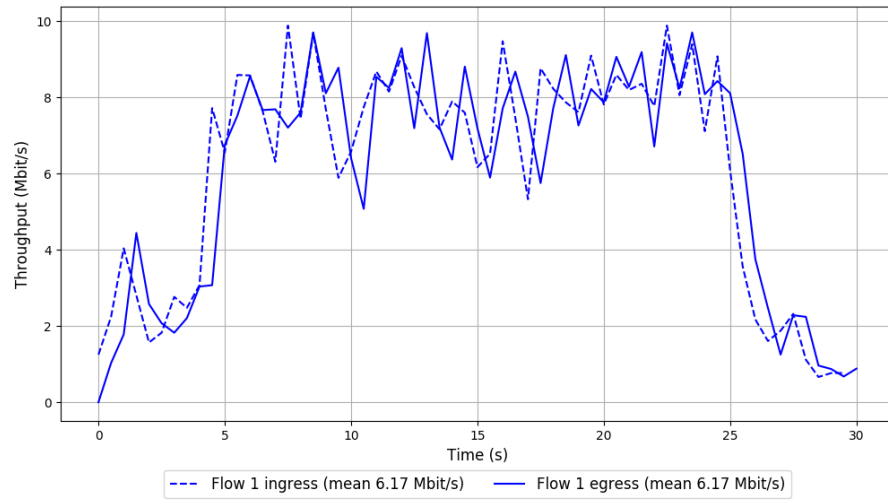
Run 5: Statistics of Sprout

Start at: 2018-05-25 23:01:03  
End at: 2018-05-25 23:01:33  
Local clock offset: 0.192 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.17 Mbit/s  
95th percentile per-packet one-way delay: 50.944 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.17 Mbit/s  
95th percentile per-packet one-way delay: 50.944 ms  
Loss rate: 0.00%



## Run 5: Report of Sprout — Data Link

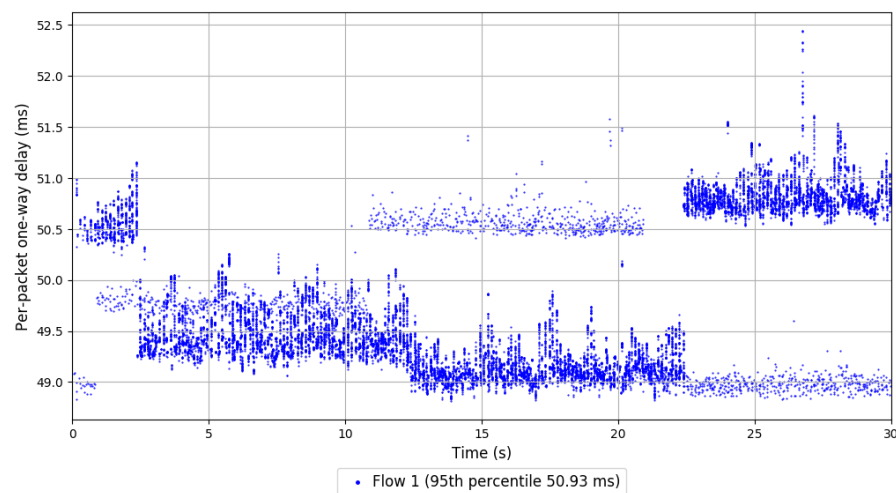
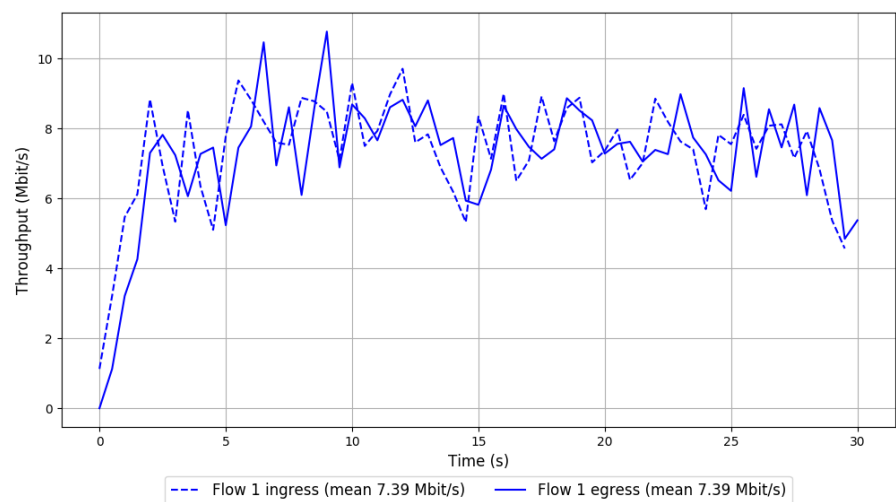


Run 6: Statistics of Sprout

Start at: 2018-05-25 23:21:29  
End at: 2018-05-25 23:21:59  
Local clock offset: -0.182 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.39 Mbit/s  
95th percentile per-packet one-way delay: 50.931 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.39 Mbit/s  
95th percentile per-packet one-way delay: 50.931 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

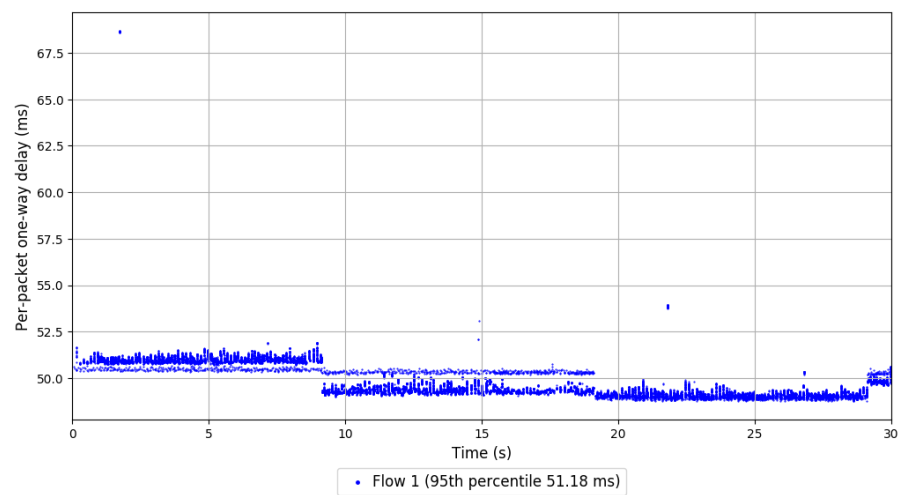
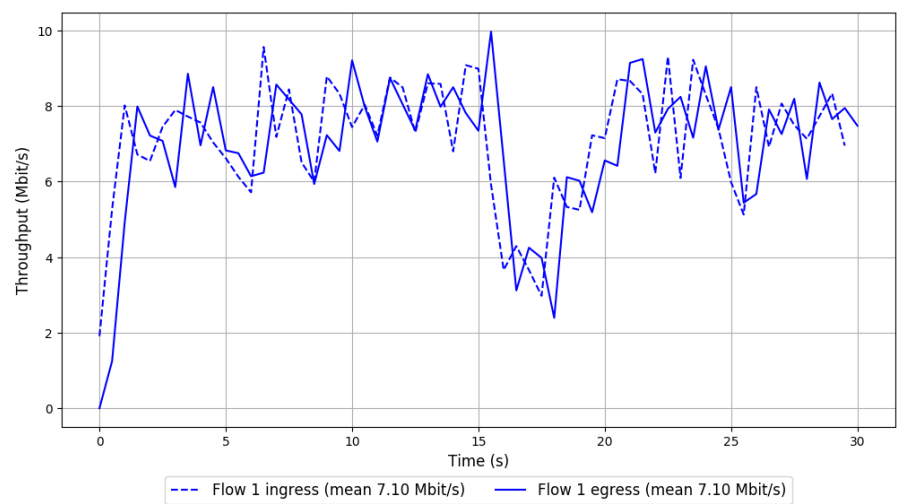


Run 7: Statistics of Sprout

Start at: 2018-05-25 23:41:52  
End at: 2018-05-25 23:42:22  
Local clock offset: -0.217 ms  
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.10 Mbit/s  
95th percentile per-packet one-way delay: 51.179 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.10 Mbit/s  
95th percentile per-packet one-way delay: 51.179 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link



Run 8: Statistics of Sprout

Start at: 2018-05-26 00:02:19

End at: 2018-05-26 00:02:49

Local clock offset: -0.196 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.294 ms

Loss rate: 0.00%

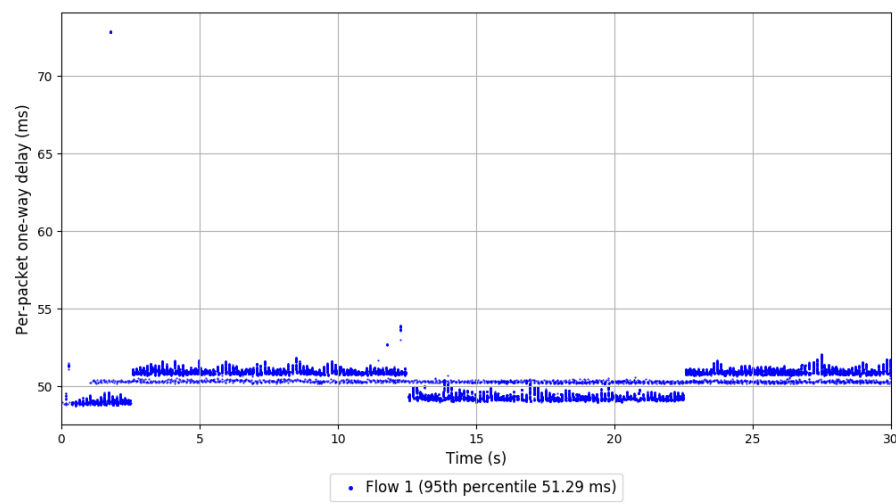
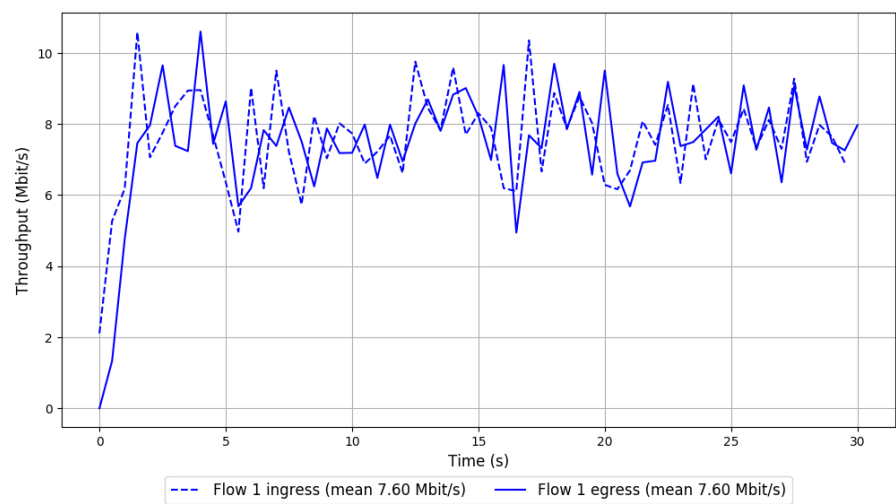
-- Flow 1:

Average throughput: 7.60 Mbit/s

95th percentile per-packet one-way delay: 51.294 ms

Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



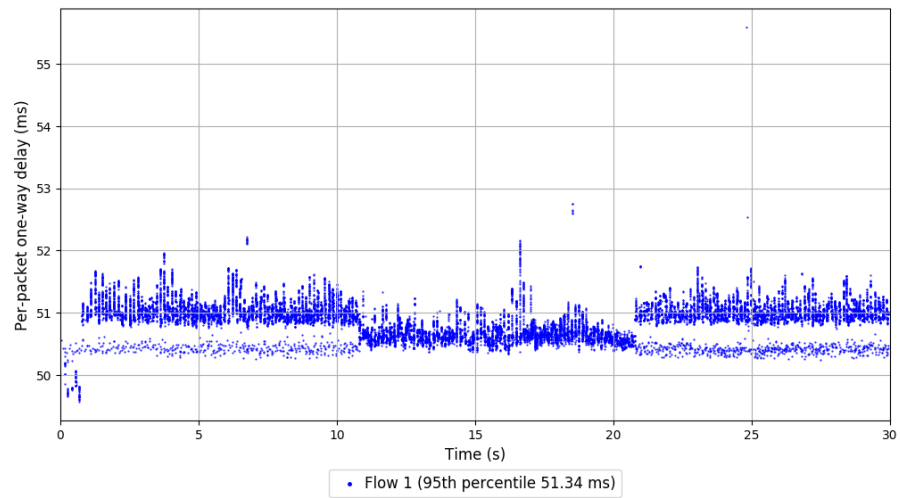
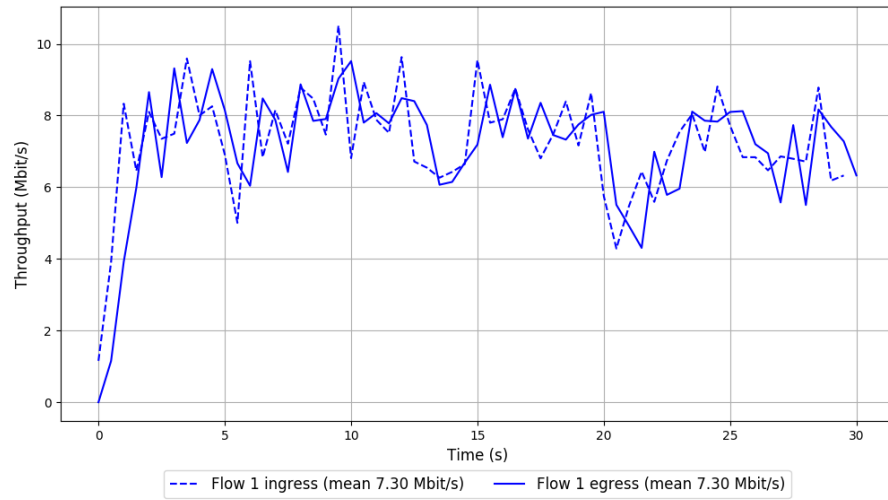
Run 9: Statistics of Sprout

Start at: 2018-05-26 00:22:50  
End at: 2018-05-26 00:23:20  
Local clock offset: -0.266 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-26 02:11:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.30 Mbit/s  
95th percentile per-packet one-way delay: 51.343 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.30 Mbit/s  
95th percentile per-packet one-way delay: 51.343 ms  
Loss rate: 0.00%



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



Run 10: Statistics of Sprout

Start at: 2018-05-26 00:43:22

End at: 2018-05-26 00:43:52

Local clock offset: -0.26 ms

Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2018-05-26 02:11:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.00%

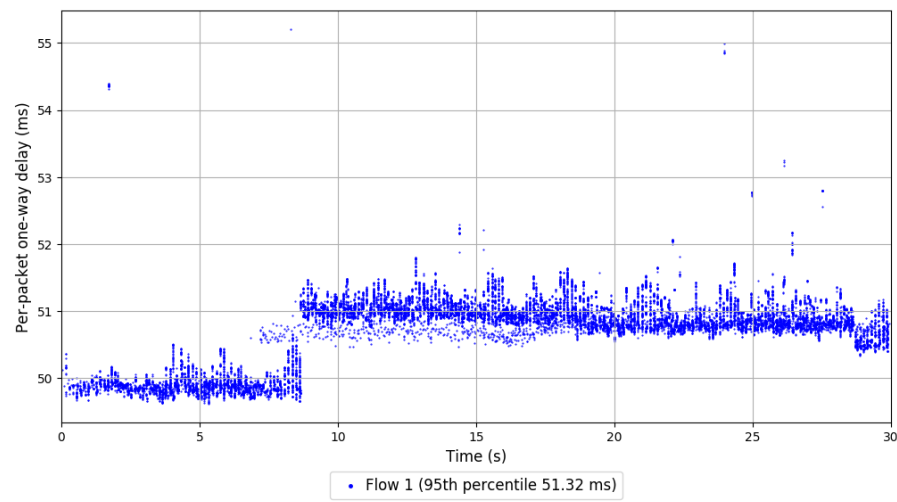
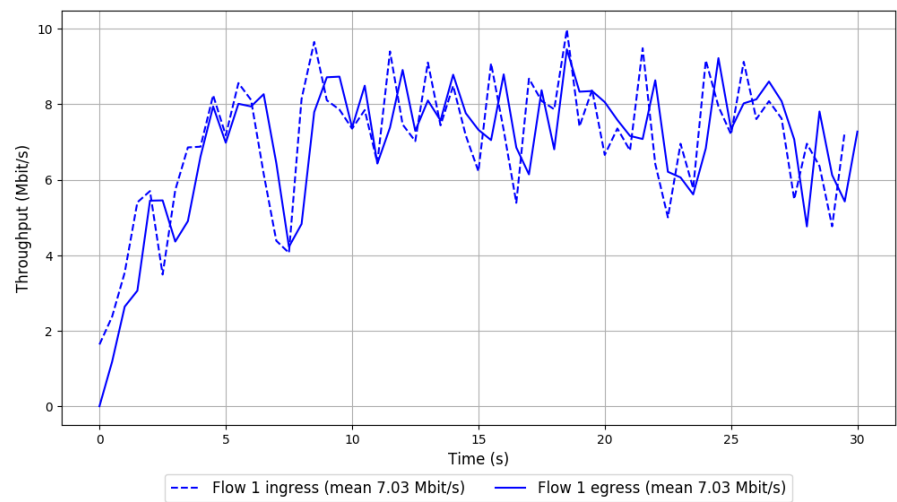
-- Flow 1:

Average throughput: 7.03 Mbit/s

95th percentile per-packet one-way delay: 51.317 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

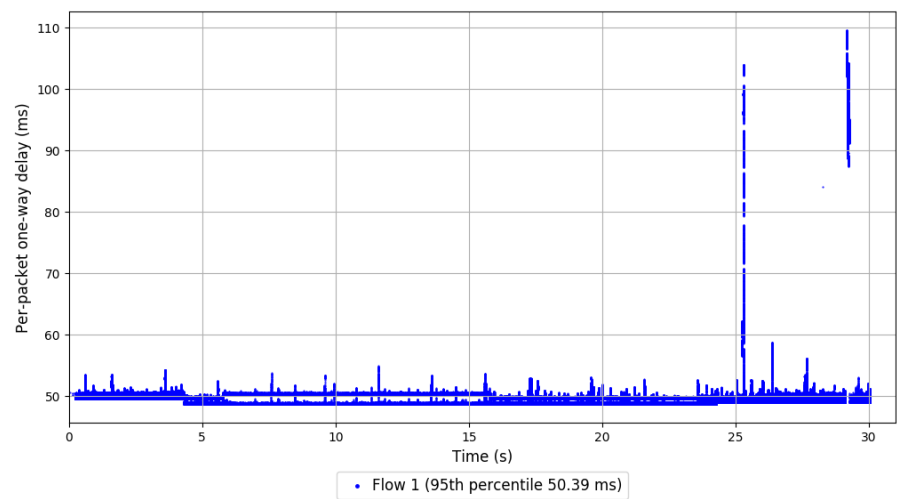
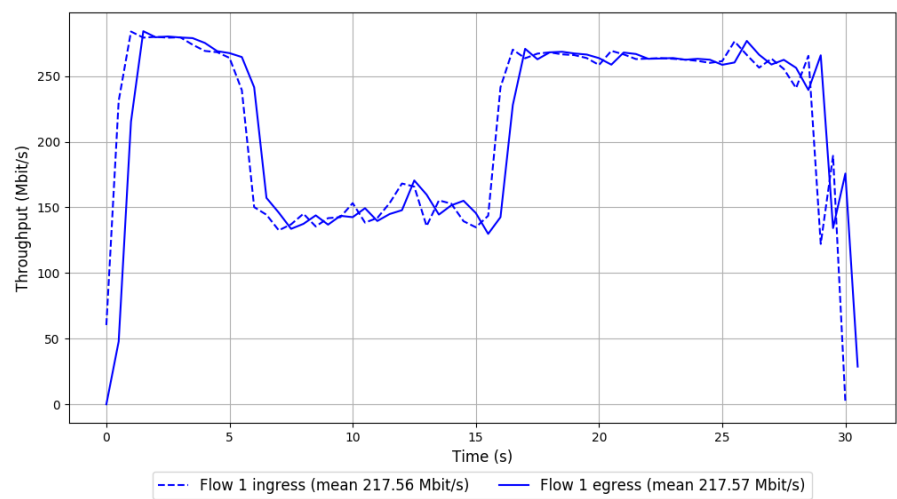


Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 21:43:45  
End at: 2018-05-25 21:44:15  
Local clock offset: -0.159 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-26 02:14:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.57 Mbit/s  
95th percentile per-packet one-way delay: 50.388 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 217.57 Mbit/s  
95th percentile per-packet one-way delay: 50.388 ms  
Loss rate: 0.00%

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

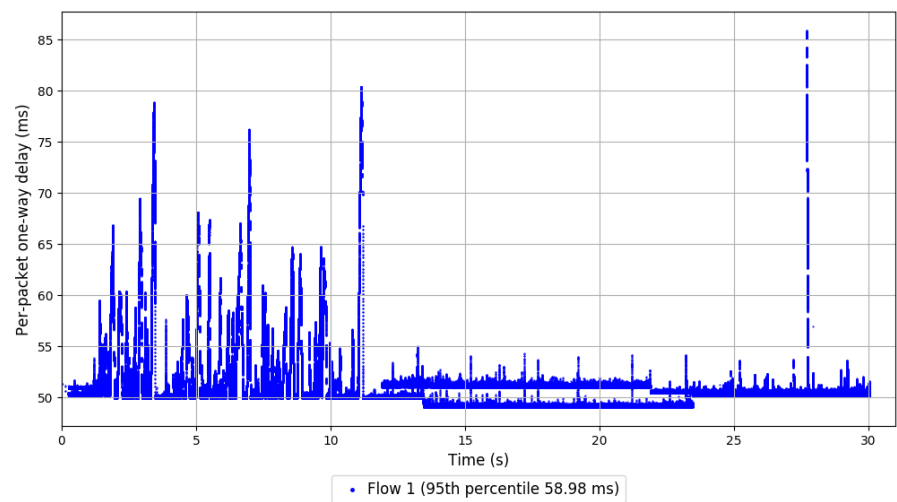
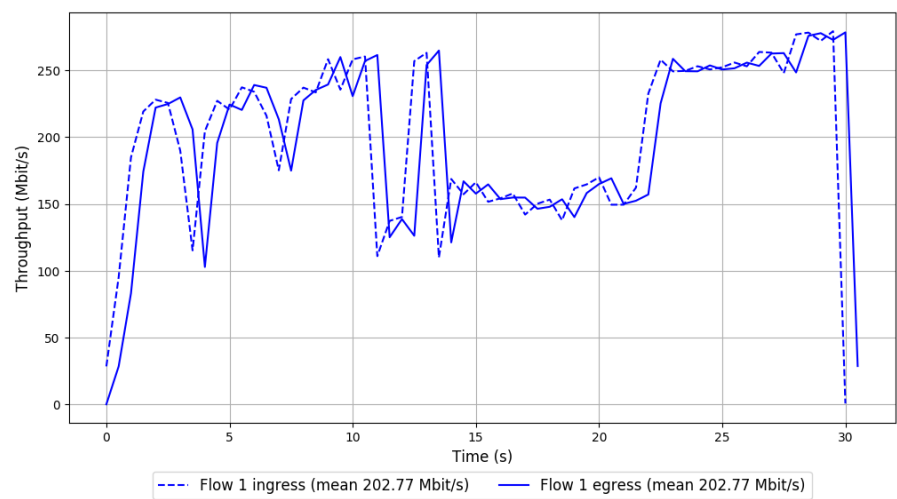


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-25 22:04:28  
End at: 2018-05-25 22:04:58  
Local clock offset: -0.508 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2018-05-26 02:14:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 202.77 Mbit/s  
95th percentile per-packet one-way delay: 58.978 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 202.77 Mbit/s  
95th percentile per-packet one-way delay: 58.978 ms  
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

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

End at: 2018-05-25 22:25:34

Local clock offset: -0.14 ms

Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-05-26 02:14:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.85 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.00%

-- Flow 1:

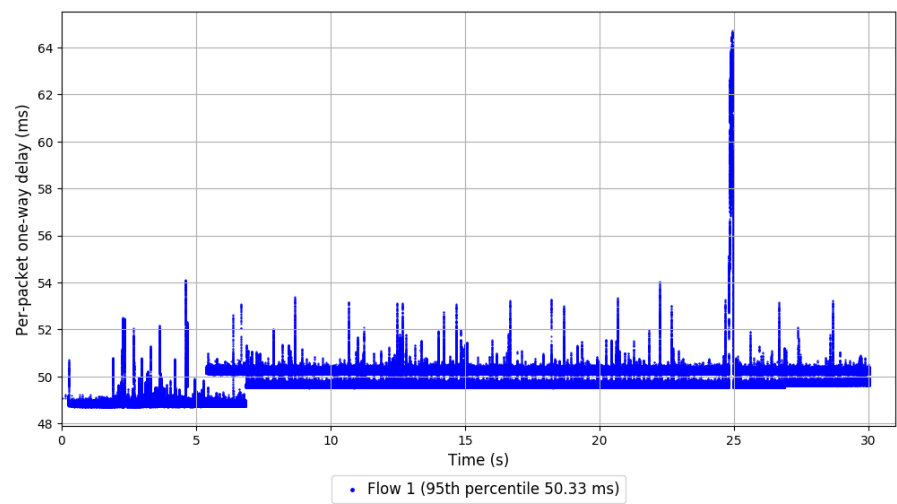
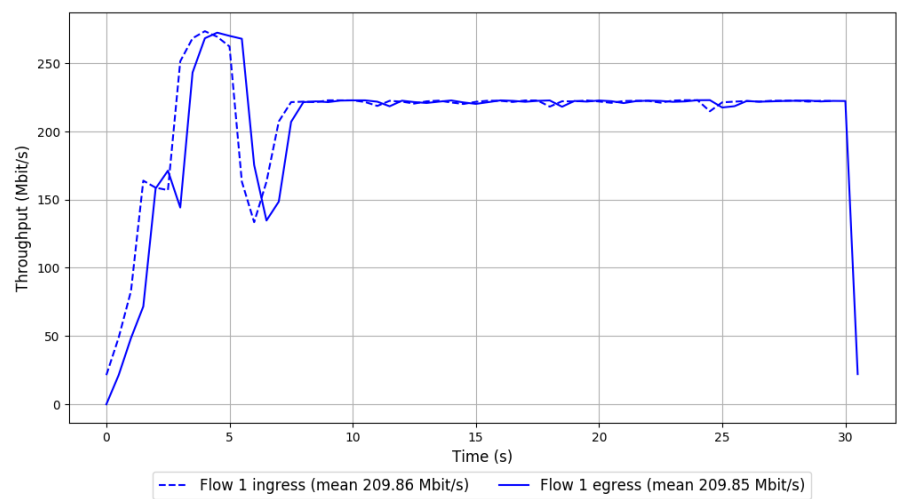
Average throughput: 209.85 Mbit/s

95th percentile per-packet one-way delay: 50.332 ms

Loss rate: 0.00%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 22:45:38

End at: 2018-05-25 22:46:08

Local clock offset: -0.291 ms

Remote clock offset: 0.032 ms

# Below is generated by plot.py at 2018-05-26 02:14:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.21 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 0.00%

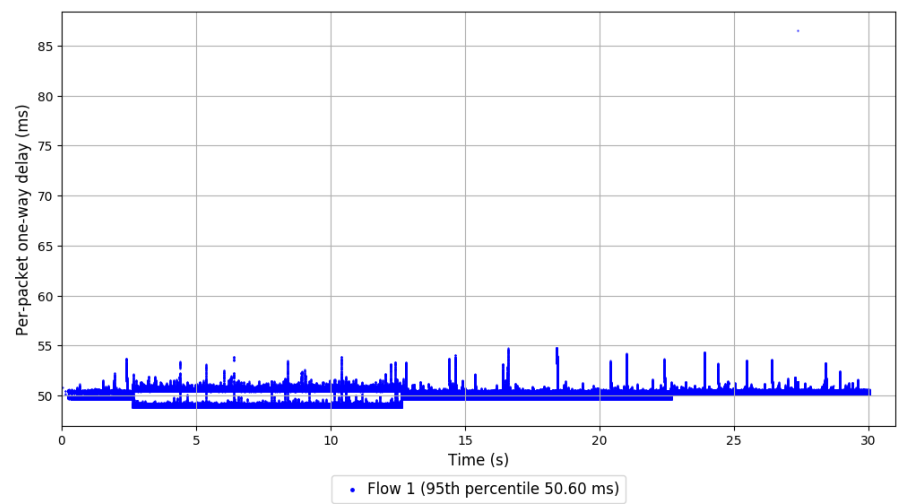
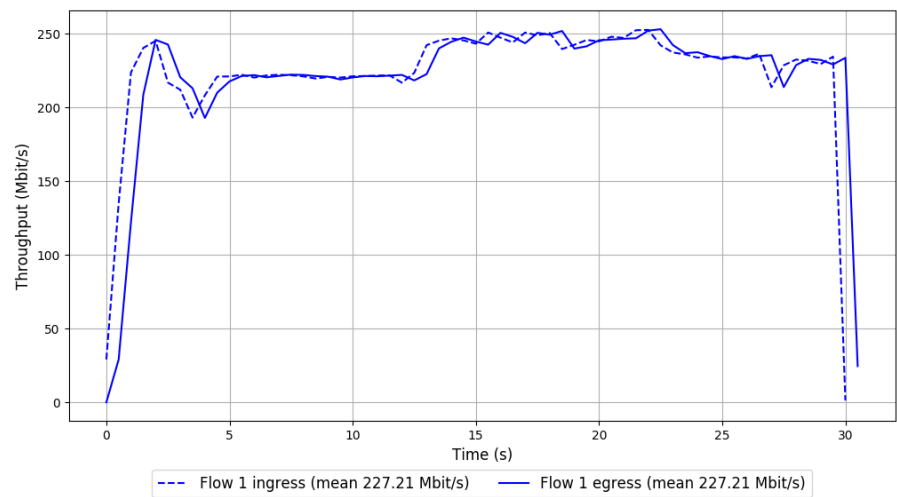
-- Flow 1:

Average throughput: 227.21 Mbit/s

95th percentile per-packet one-way delay: 50.601 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 23:06:03

End at: 2018-05-25 23:06:33

Local clock offset: -0.489 ms

Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2018-05-26 02:14:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 218.24 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

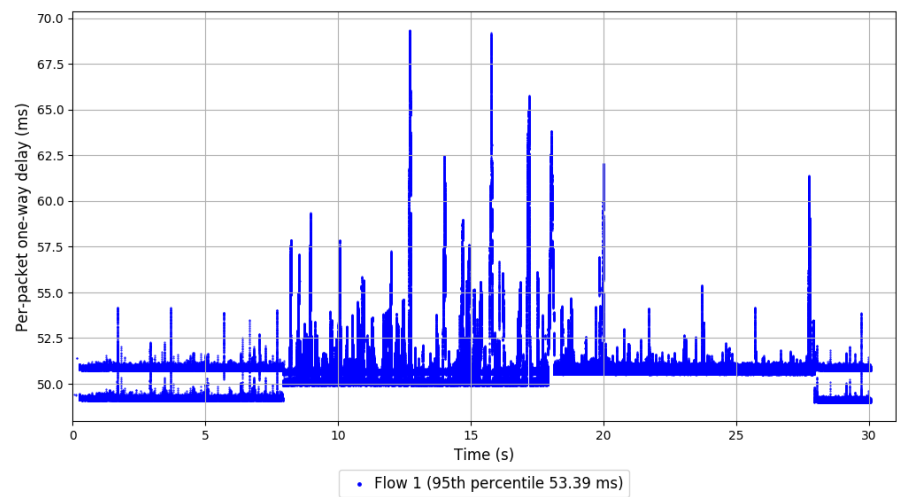
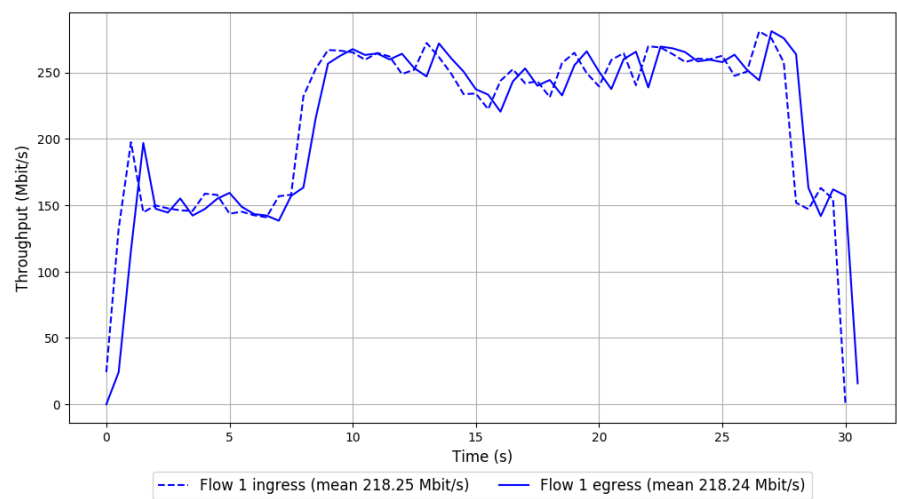
-- Flow 1:

Average throughput: 218.24 Mbit/s

95th percentile per-packet one-way delay: 53.394 ms

Loss rate: 0.00%

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

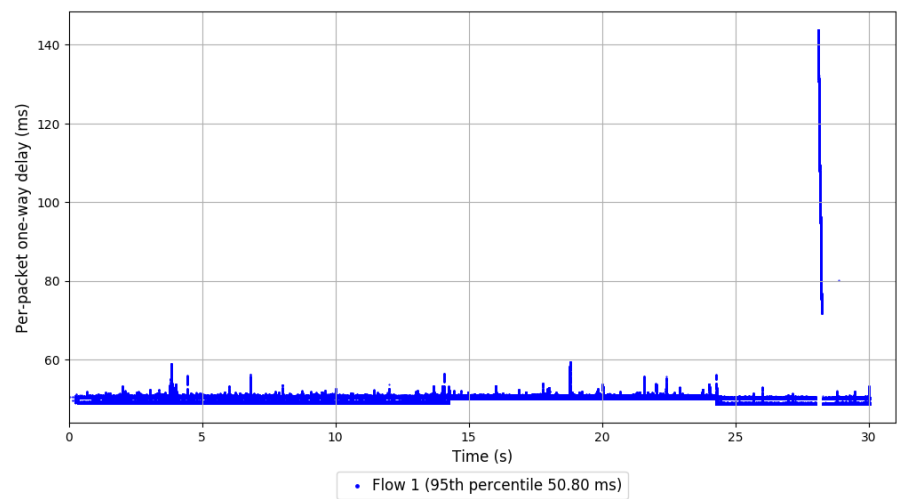
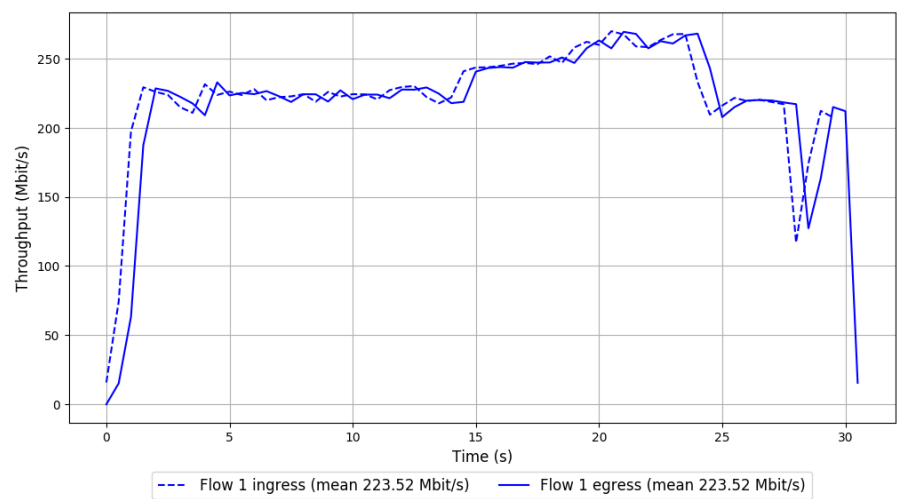


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 23:26:27  
End at: 2018-05-25 23:26:57  
Local clock offset: -0.122 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2018-05-26 02:16:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 223.52 Mbit/s  
95th percentile per-packet one-way delay: 50.801 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 223.52 Mbit/s  
95th percentile per-packet one-way delay: 50.801 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 23:46:56

End at: 2018-05-25 23:47:26

Local clock offset: -0.163 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 02:19:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 254.95 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.00%

-- Flow 1:

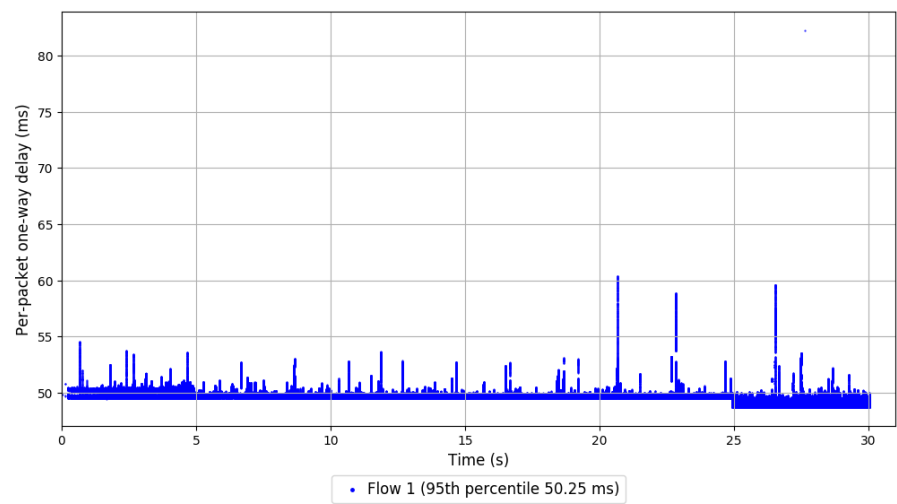
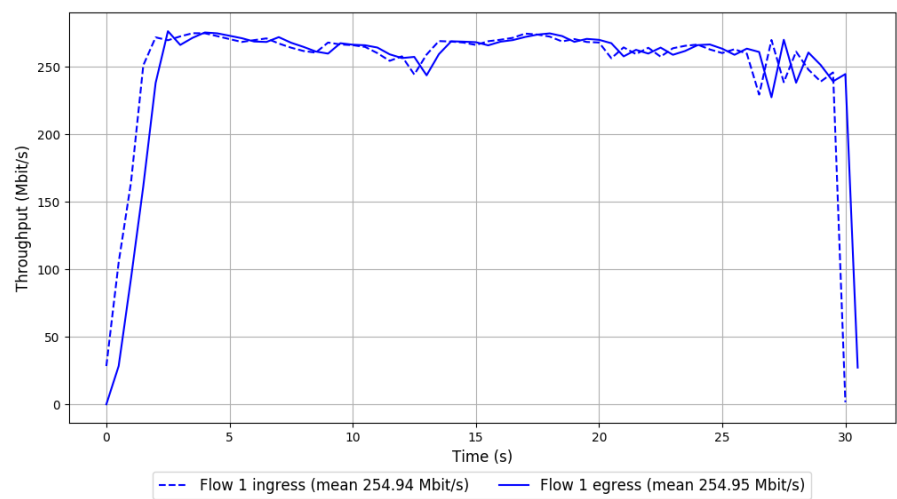
Average throughput: 254.95 Mbit/s

95th percentile per-packet one-way delay: 50.246 ms

Loss rate: 0.00%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 00:07:20

End at: 2018-05-26 00:07:50

Local clock offset: -0.179 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-26 02:19:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.16 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.00%

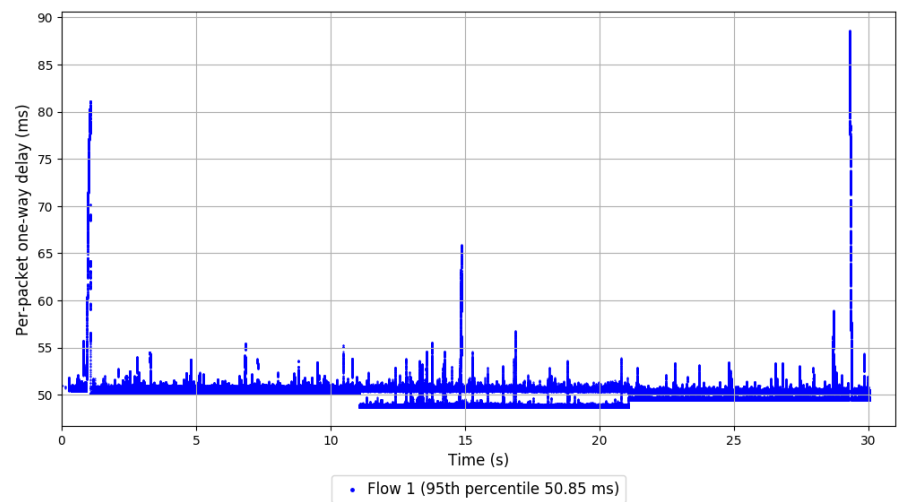
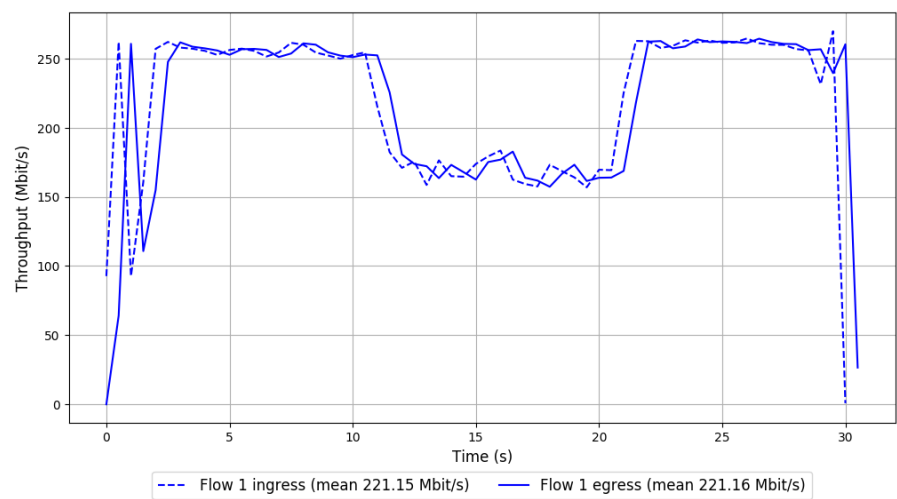
-- Flow 1:

Average throughput: 221.16 Mbit/s

95th percentile per-packet one-way delay: 50.855 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 00:27:51

End at: 2018-05-26 00:28:21

Local clock offset: 0.142 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 02:21:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 227.49 Mbit/s

95th percentile per-packet one-way delay: 50.238 ms

Loss rate: 0.00%

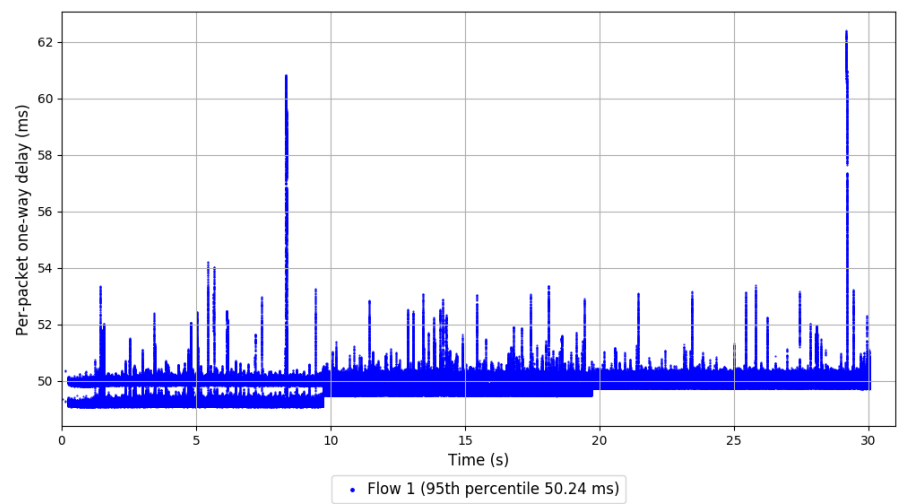
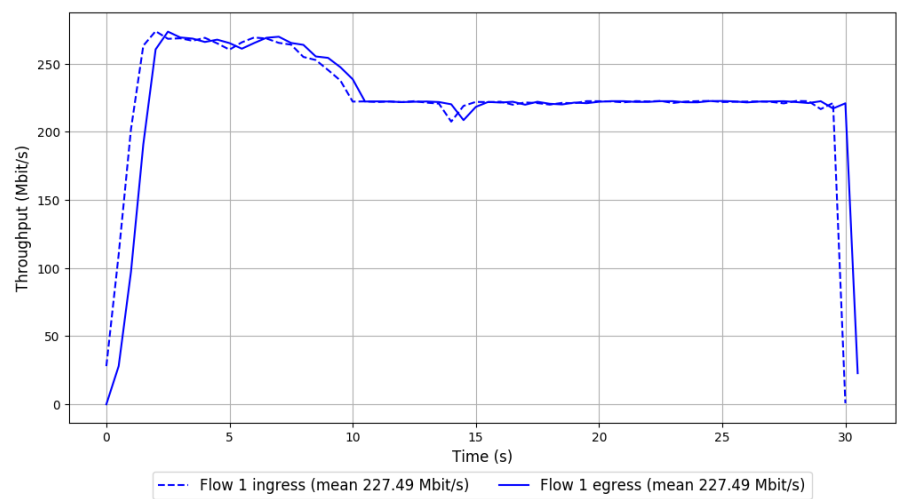
-- Flow 1:

Average throughput: 227.49 Mbit/s

95th percentile per-packet one-way delay: 50.238 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 00:48:23

End at: 2018-05-26 00:48:53

Local clock offset: -0.208 ms

Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-26 02:21:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 244.35 Mbit/s

95th percentile per-packet one-way delay: 52.339 ms

Loss rate: 0.00%

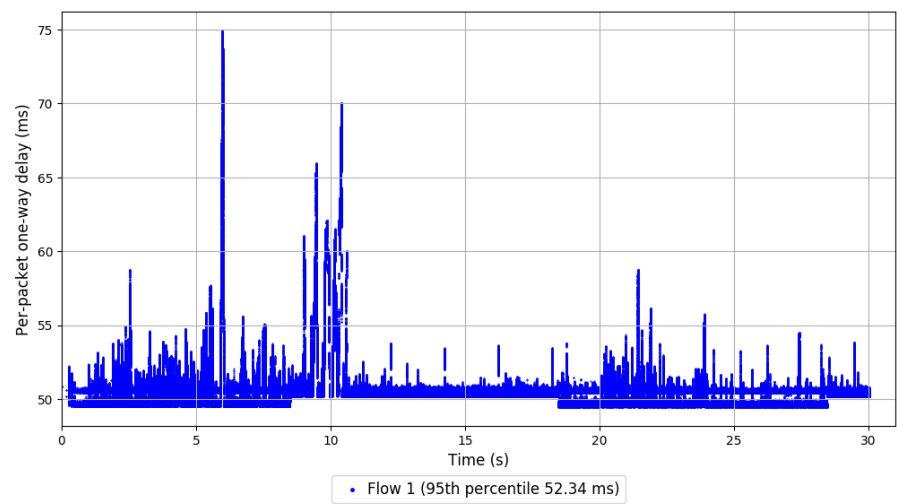
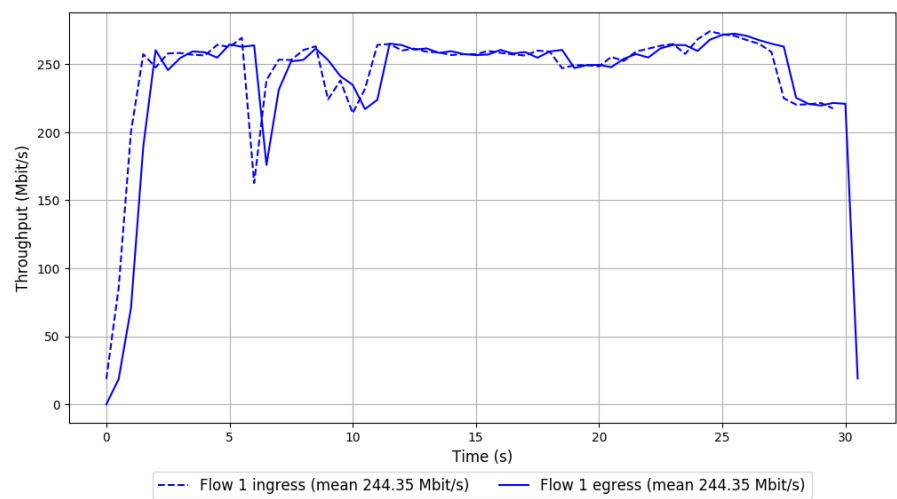
-- Flow 1:

Average throughput: 244.35 Mbit/s

95th percentile per-packet one-way delay: 52.339 ms

Loss rate: 0.00%

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



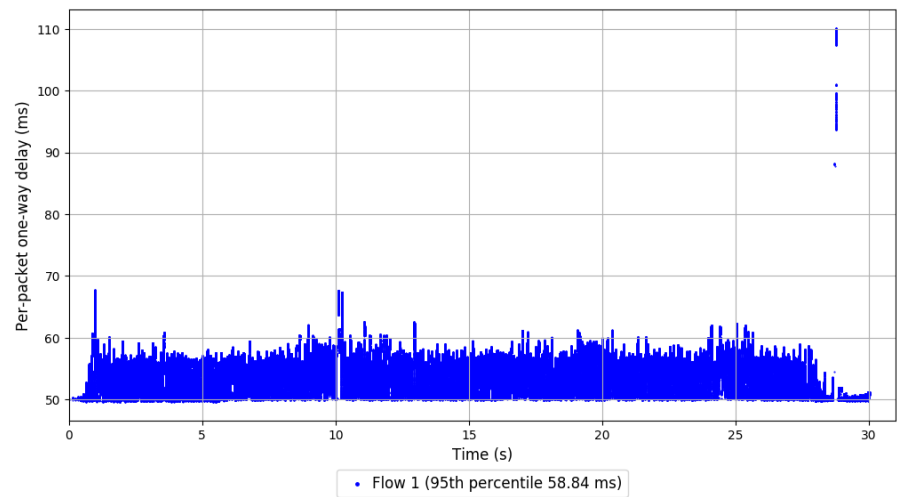
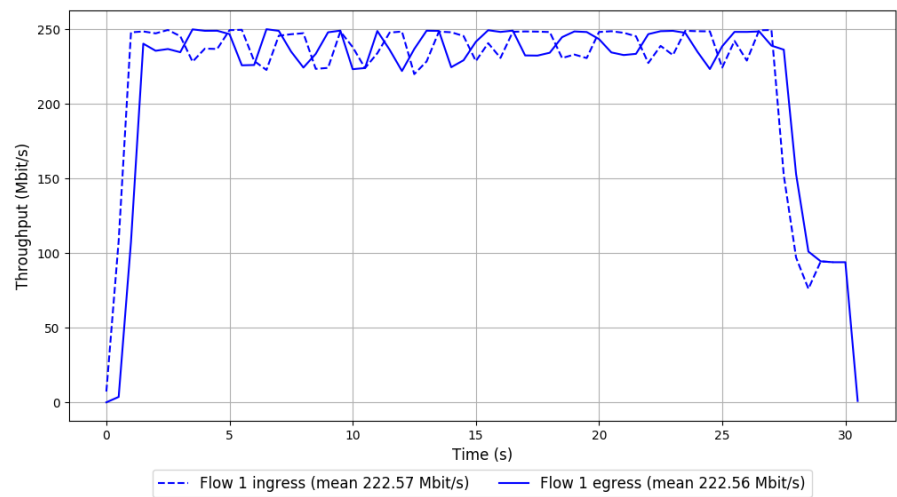
Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 21:46:15  
End at: 2018-05-25 21:46:45  
Local clock offset: -0.239 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2018-05-26 02:21:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 222.56 Mbit/s  
95th percentile per-packet one-way delay: 58.837 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.56 Mbit/s  
95th percentile per-packet one-way delay: 58.837 ms  
Loss rate: 0.00%



Run 1: Report of TCP Vegas — Data Link

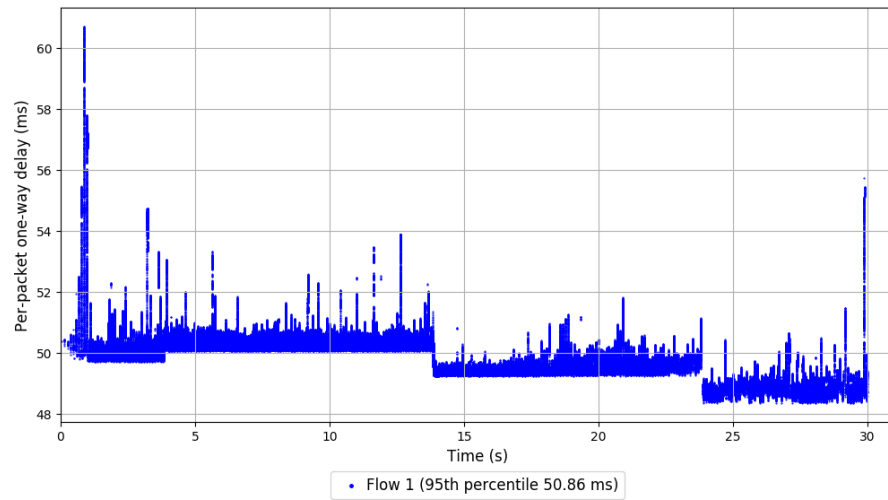
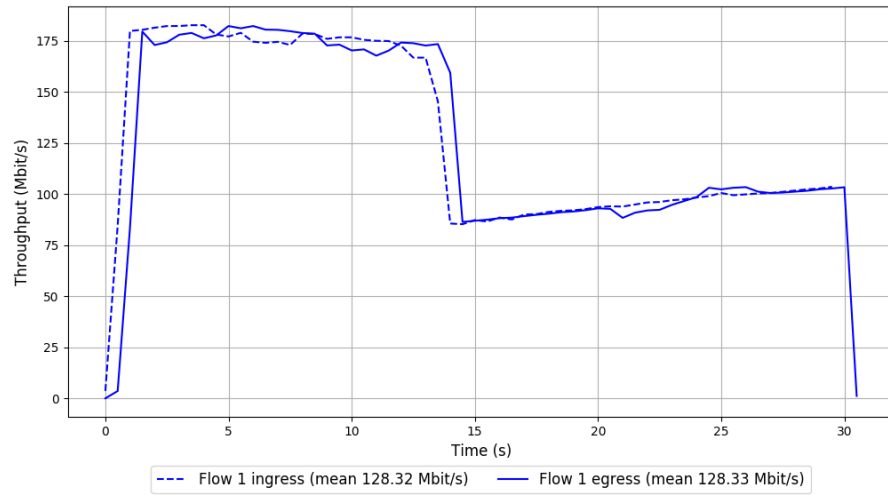


Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 22:06:57  
End at: 2018-05-25 22:07:27  
Local clock offset: 0.221 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2018-05-26 02:21:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 128.33 Mbit/s  
95th percentile per-packet one-way delay: 50.863 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 128.33 Mbit/s  
95th percentile per-packet one-way delay: 50.863 ms  
Loss rate: 0.00%

## Run 2: Report of TCP Vegas — Data Link

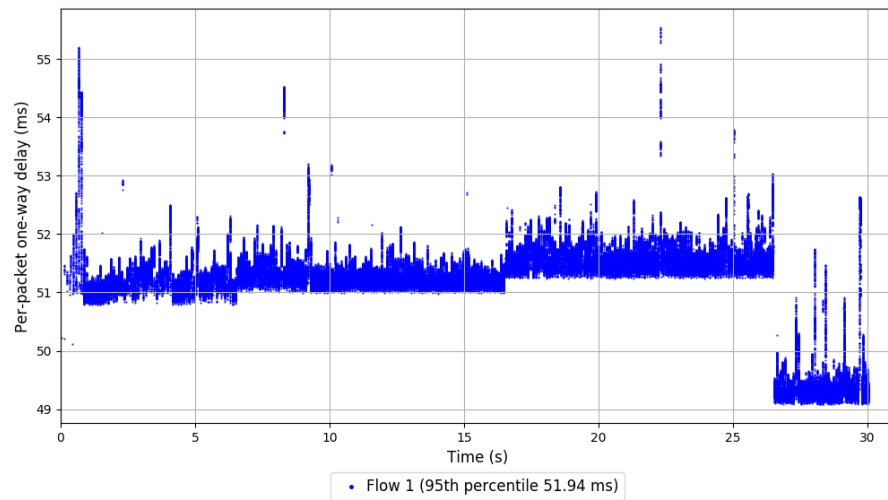
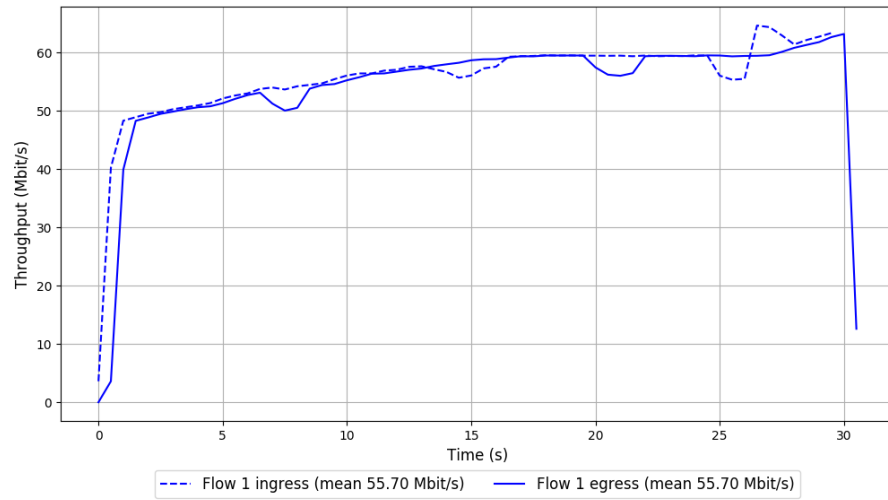


Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 22:27:35  
End at: 2018-05-25 22:28:05  
Local clock offset: -0.568 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-05-26 02:21:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 55.70 Mbit/s  
95th percentile per-packet one-way delay: 51.943 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.70 Mbit/s  
95th percentile per-packet one-way delay: 51.943 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 22:48:10

End at: 2018-05-25 22:48:40

Local clock offset: -0.601 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2018-05-26 02:21:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.98 Mbit/s

95th percentile per-packet one-way delay: 59.268 ms

Loss rate: 0.04%

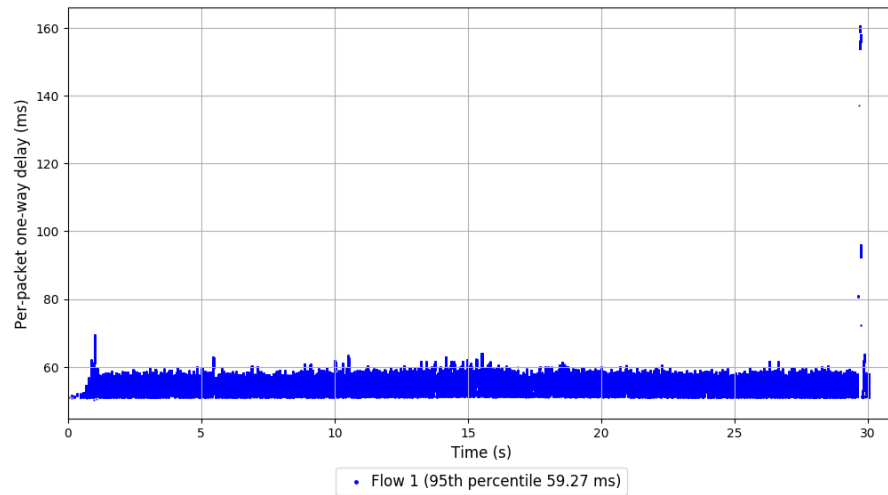
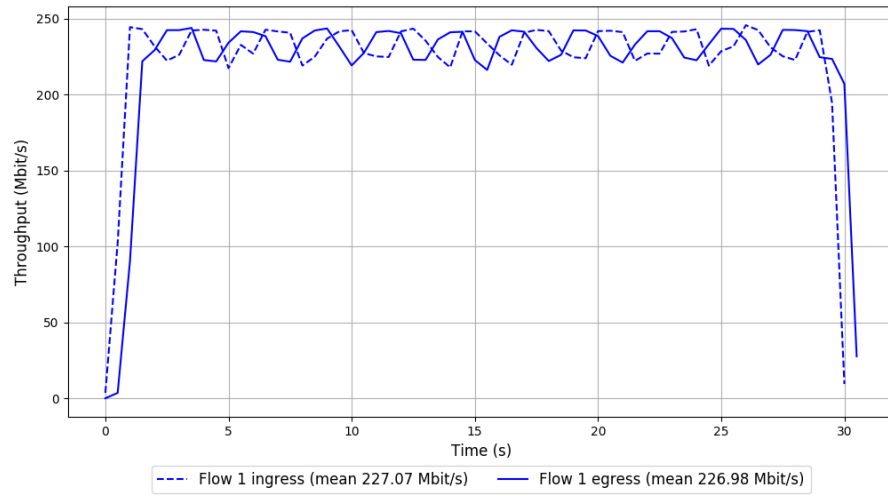
-- Flow 1:

Average throughput: 226.98 Mbit/s

95th percentile per-packet one-way delay: 59.268 ms

Loss rate: 0.04%

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



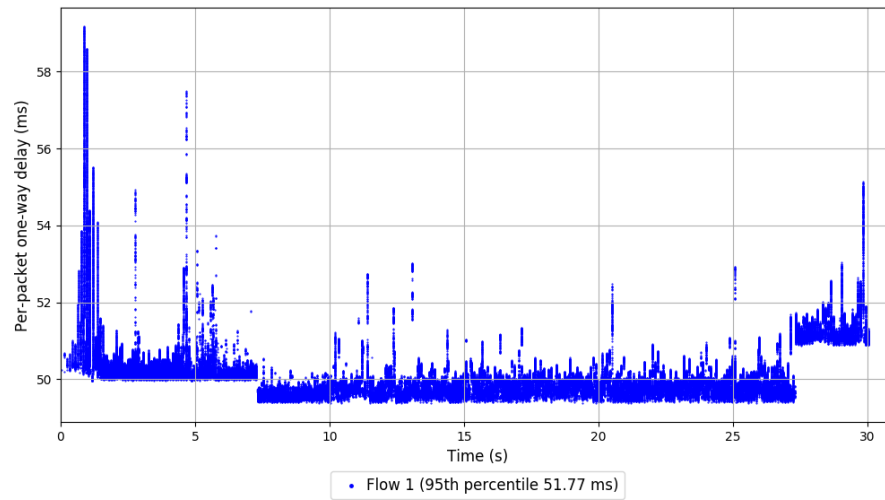
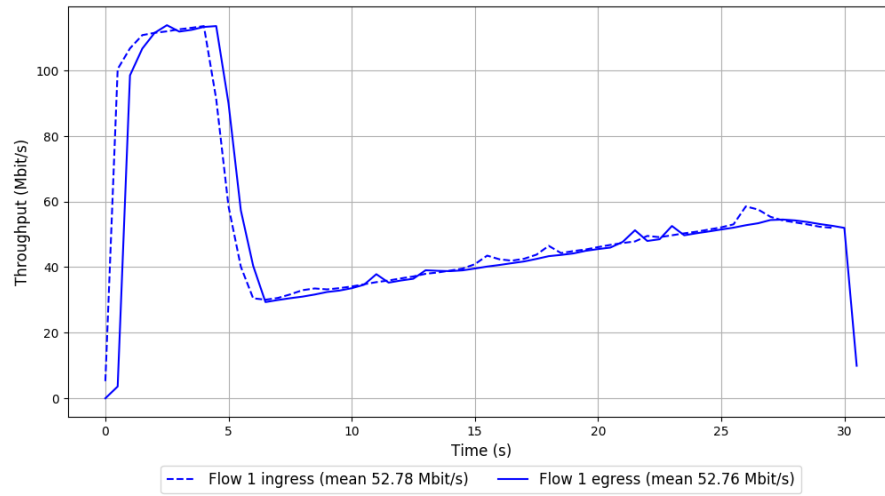
Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 23:08:34  
End at: 2018-05-25 23:09:04  
Local clock offset: -0.604 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2018-05-26 02:21:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.76 Mbit/s  
95th percentile per-packet one-way delay: 51.771 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 52.76 Mbit/s  
95th percentile per-packet one-way delay: 51.771 ms  
Loss rate: 0.03%



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

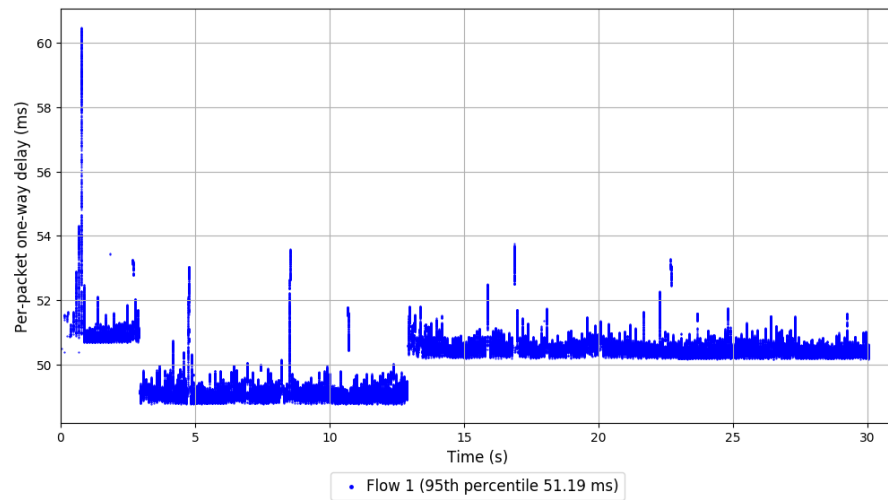
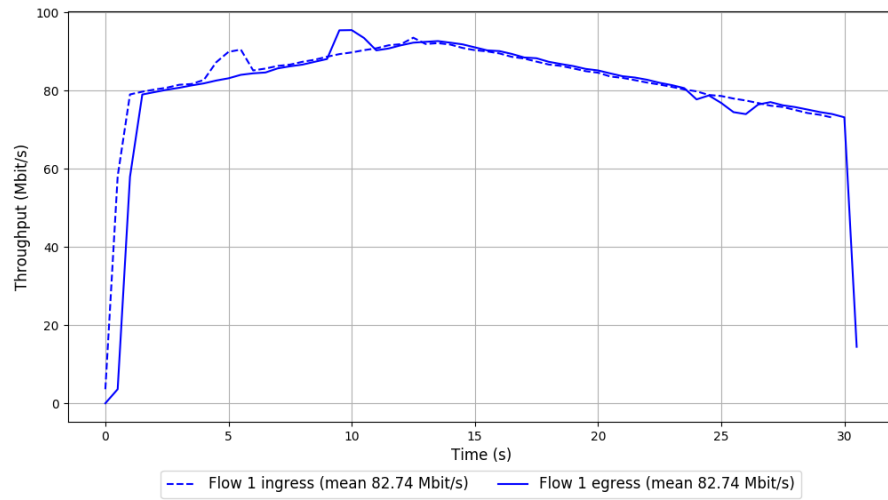


Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 23:28:58  
End at: 2018-05-25 23:29:28  
Local clock offset: -0.175 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-05-26 02:21:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 82.74 Mbit/s  
95th percentile per-packet one-way delay: 51.189 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 82.74 Mbit/s  
95th percentile per-packet one-way delay: 51.189 ms  
Loss rate: 0.00%

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

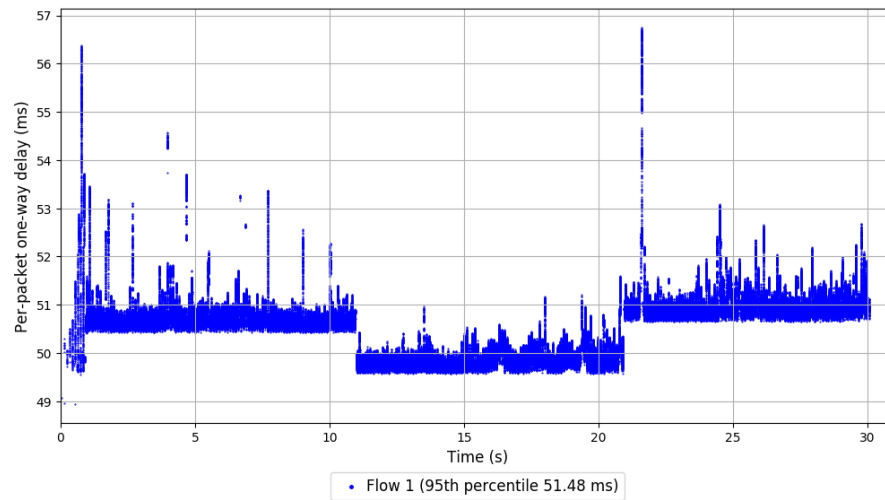
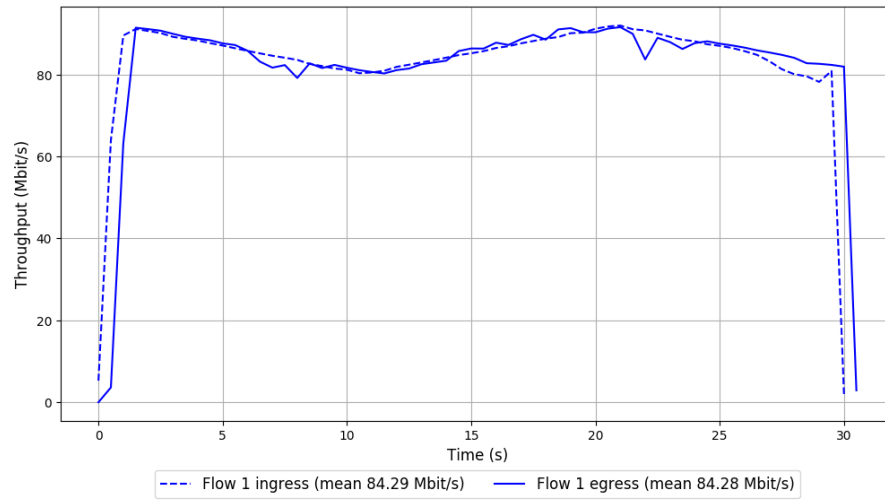


Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 23:49:30  
End at: 2018-05-25 23:50:00  
Local clock offset: -0.174 ms  
Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2018-05-26 02:21:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.28 Mbit/s  
95th percentile per-packet one-way delay: 51.480 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 84.28 Mbit/s  
95th percentile per-packet one-way delay: 51.480 ms  
Loss rate: 0.00%

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

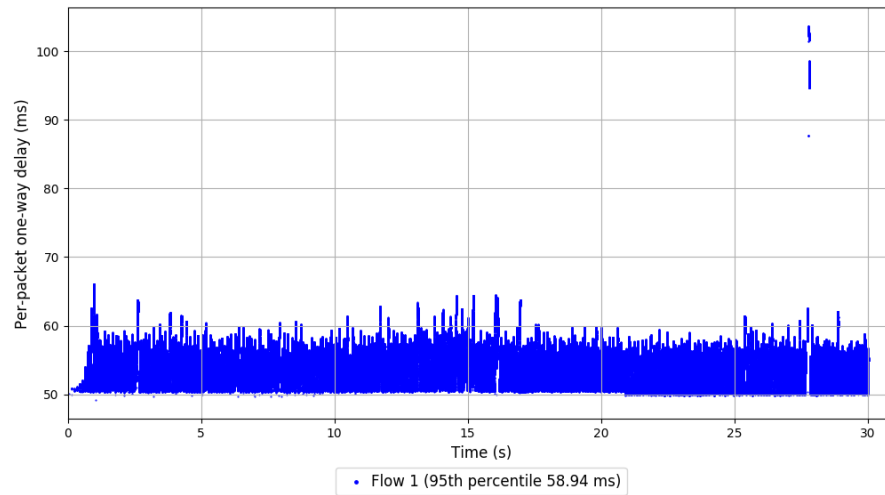
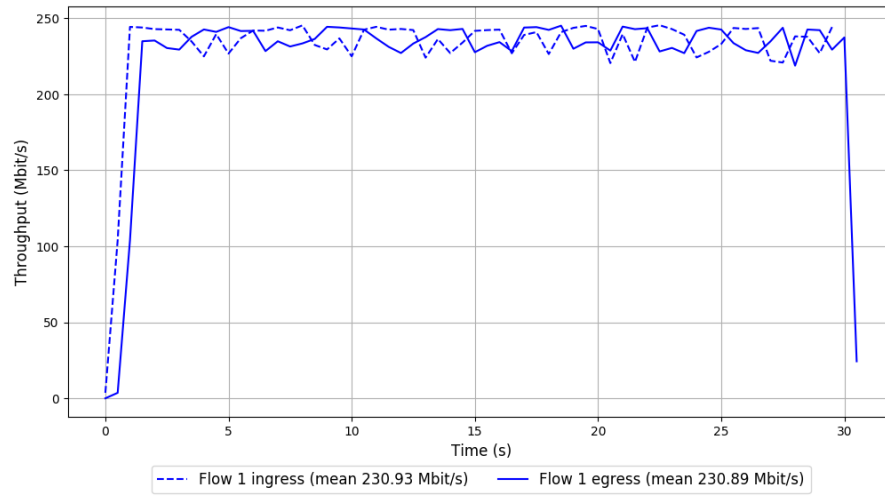


Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 00:09:50  
End at: 2018-05-26 00:10:20  
Local clock offset: 0.151 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-05-26 02:21:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 230.89 Mbit/s  
95th percentile per-packet one-way delay: 58.942 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 230.89 Mbit/s  
95th percentile per-packet one-way delay: 58.942 ms  
Loss rate: 0.00%

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



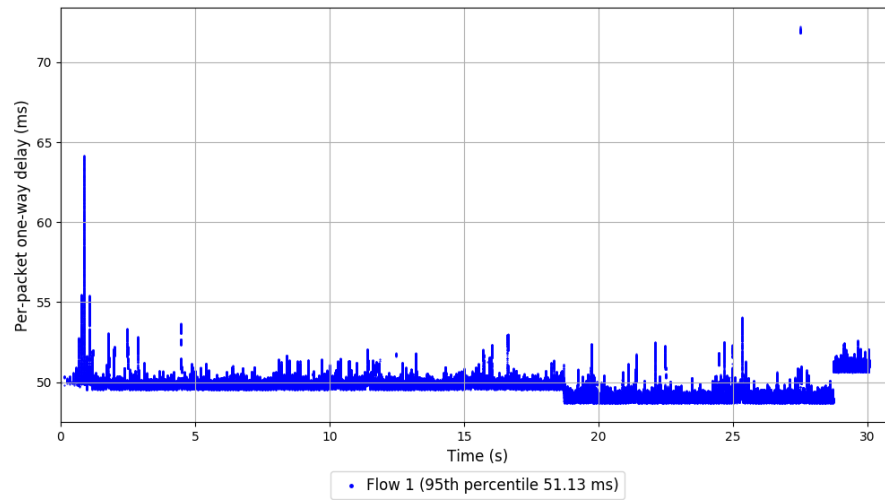
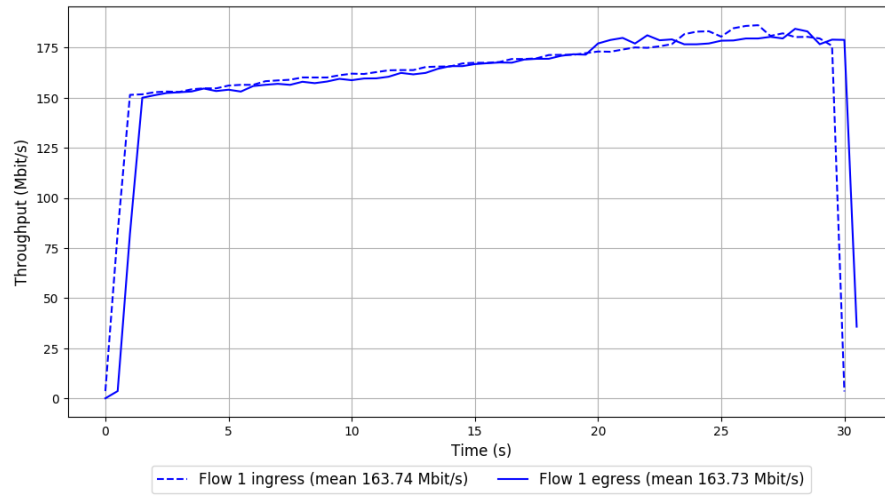
Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 00:30:22  
End at: 2018-05-26 00:30:52  
Local clock offset: -0.196 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2018-05-26 02:21:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 163.73 Mbit/s  
95th percentile per-packet one-way delay: 51.127 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 163.73 Mbit/s  
95th percentile per-packet one-way delay: 51.127 ms  
Loss rate: 0.00%



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



Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 00:50:56

End at: 2018-05-26 00:51:26

Local clock offset: 0.136 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-26 02:21:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 103.37 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 0.00%

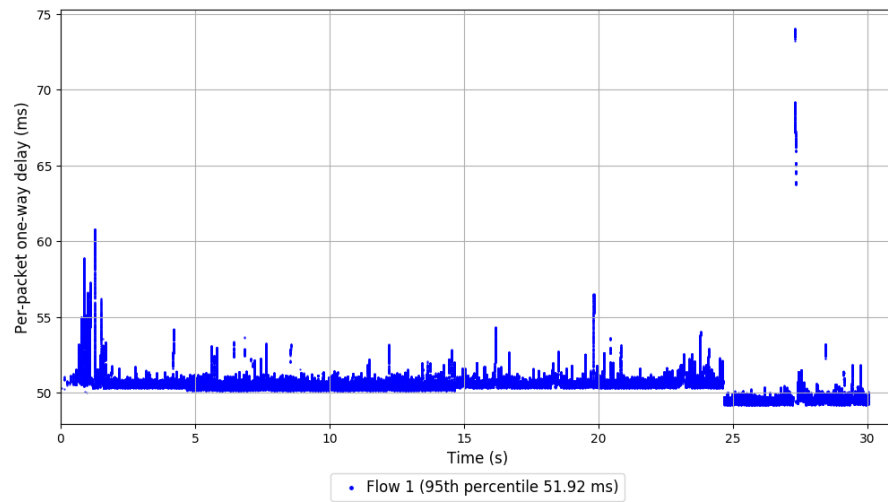
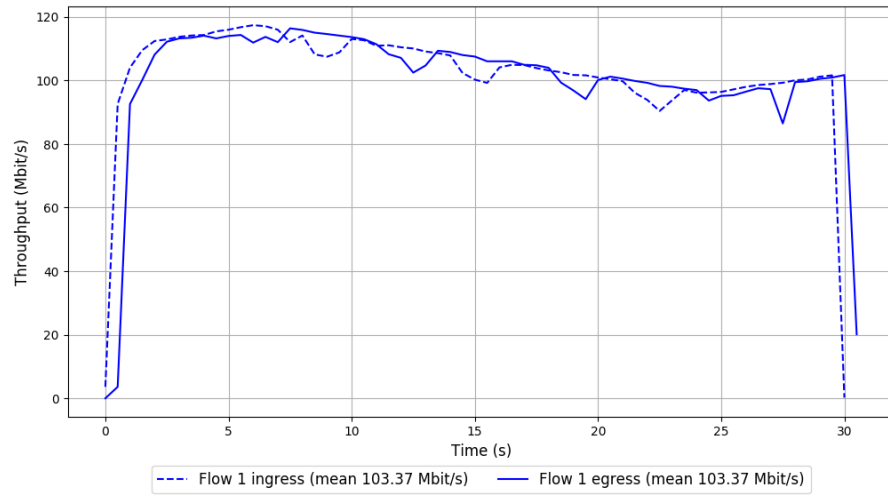
-- Flow 1:

Average throughput: 103.37 Mbit/s

95th percentile per-packet one-way delay: 51.917 ms

Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link

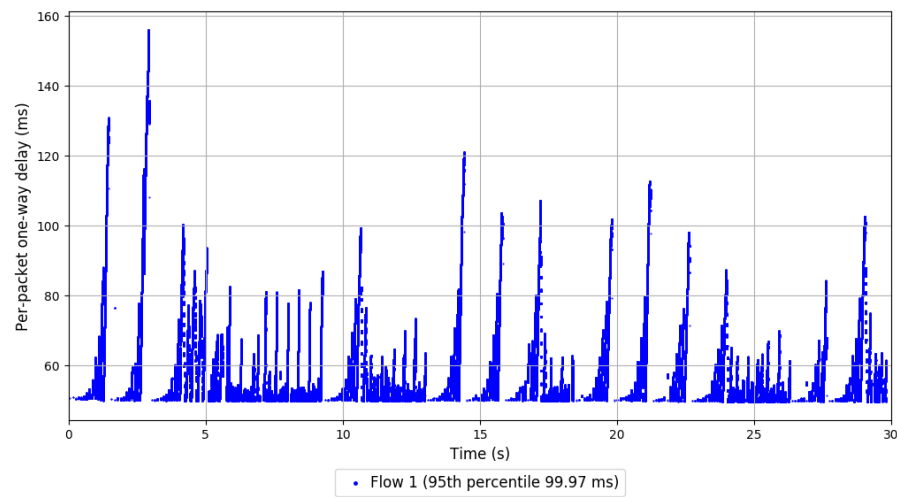
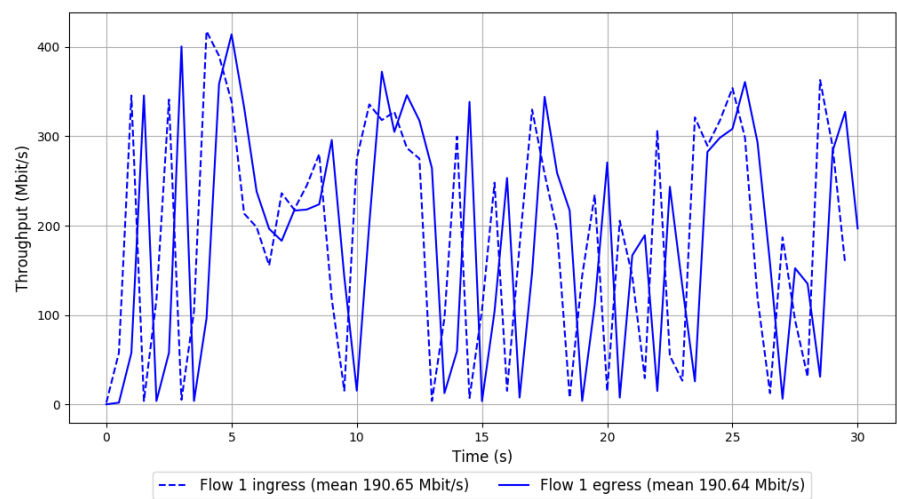


Run 1: Statistics of Verus

Start at: 2018-05-25 21:51:20  
End at: 2018-05-25 21:51:50  
Local clock offset: -0.154 ms  
Remote clock offset: -0.152 ms

# Below is generated by plot.py at 2018-05-26 02:21:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 190.64 Mbit/s  
95th percentile per-packet one-way delay: 99.975 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 190.64 Mbit/s  
95th percentile per-packet one-way delay: 99.975 ms  
Loss rate: 0.00%

Run 1: Report of Verus — Data Link

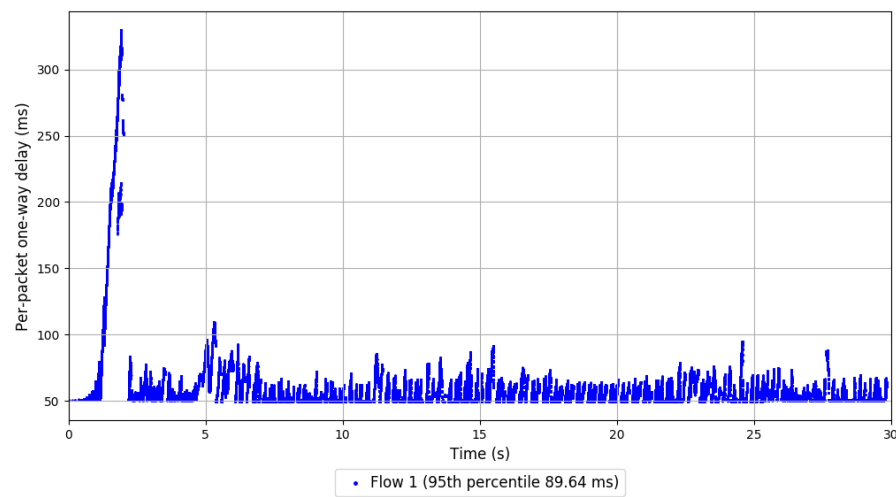
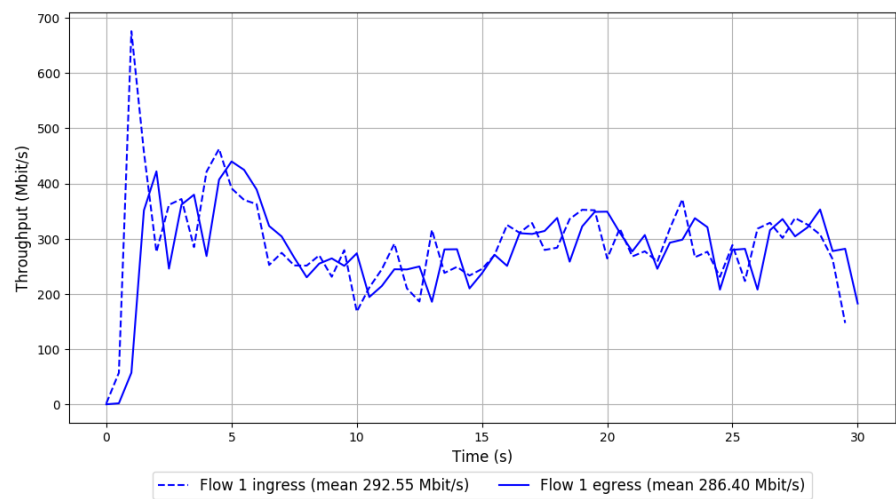


Run 2: Statistics of Verus

Start at: 2018-05-25 22:11:56  
End at: 2018-05-25 22:12:26  
Local clock offset: -0.159 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-05-26 02:24:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 286.40 Mbit/s  
95th percentile per-packet one-way delay: 89.645 ms  
Loss rate: 2.06%  
-- Flow 1:  
Average throughput: 286.40 Mbit/s  
95th percentile per-packet one-way delay: 89.645 ms  
Loss rate: 2.06%

Run 2: Report of Verus — Data Link



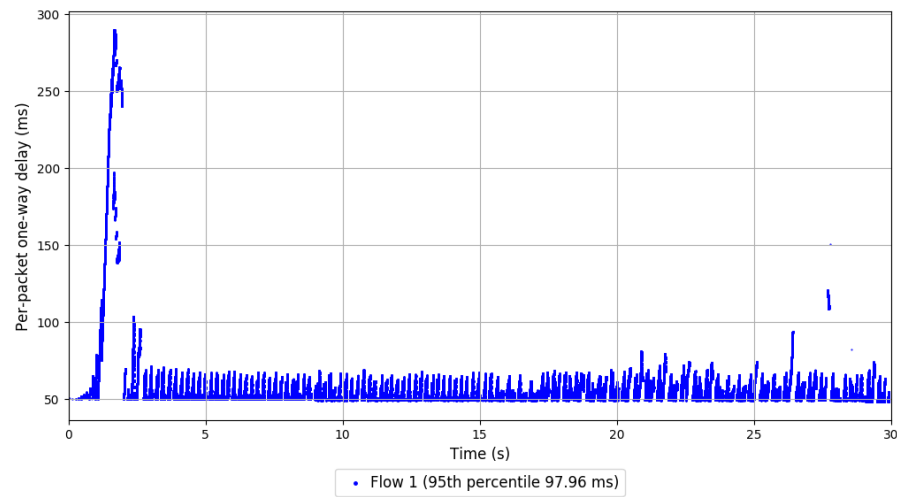
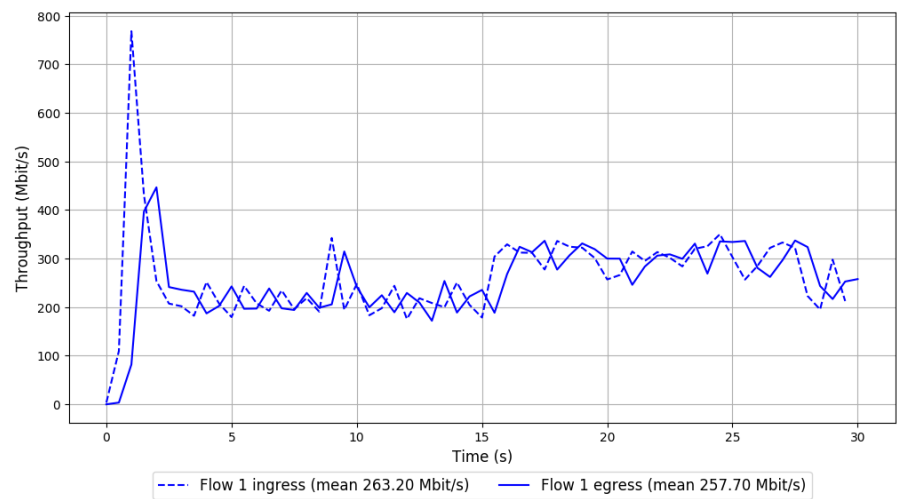
Run 3: Statistics of Verus

Start at: 2018-05-25 22:32:32  
End at: 2018-05-25 22:33:02  
Local clock offset: 0.151 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-05-26 02:24:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 257.70 Mbit/s  
95th percentile per-packet one-way delay: 97.957 ms  
Loss rate: 2.09%  
-- Flow 1:  
Average throughput: 257.70 Mbit/s  
95th percentile per-packet one-way delay: 97.957 ms  
Loss rate: 2.09%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-25 22:53:13

End at: 2018-05-25 22:53:43

Local clock offset: -0.192 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2018-05-26 02:24:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 245.13 Mbit/s

95th percentile per-packet one-way delay: 82.942 ms

Loss rate: 1.51%

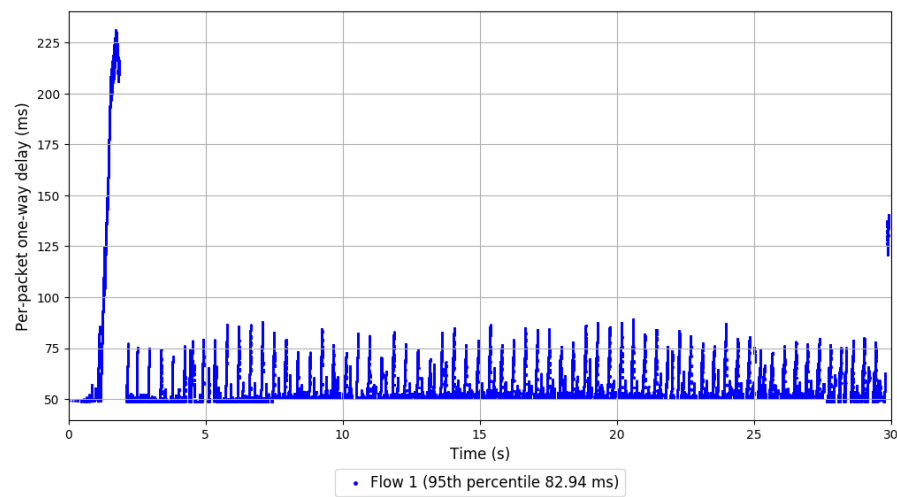
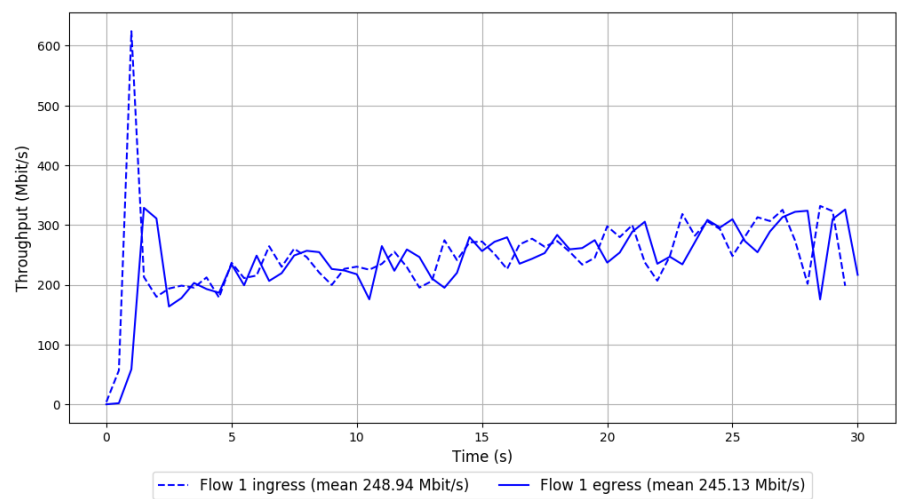
-- Flow 1:

Average throughput: 245.13 Mbit/s

95th percentile per-packet one-way delay: 82.942 ms

Loss rate: 1.51%

Run 4: Report of Verus — Data Link

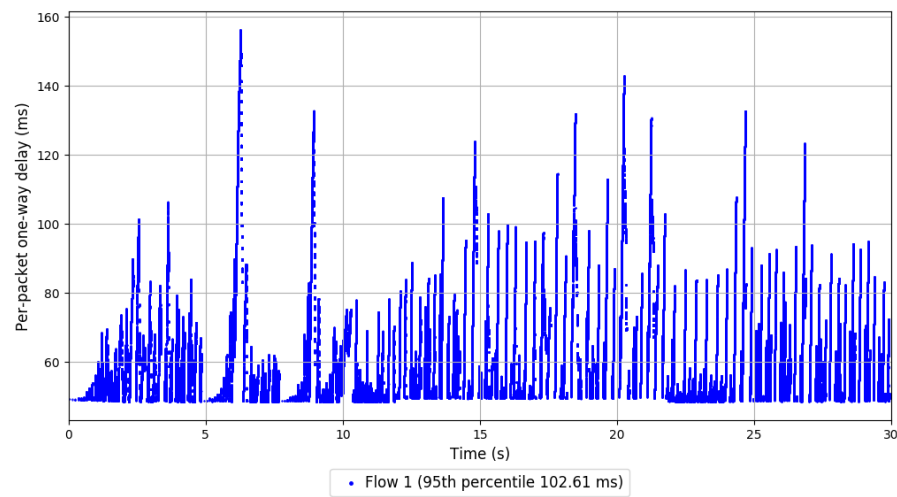
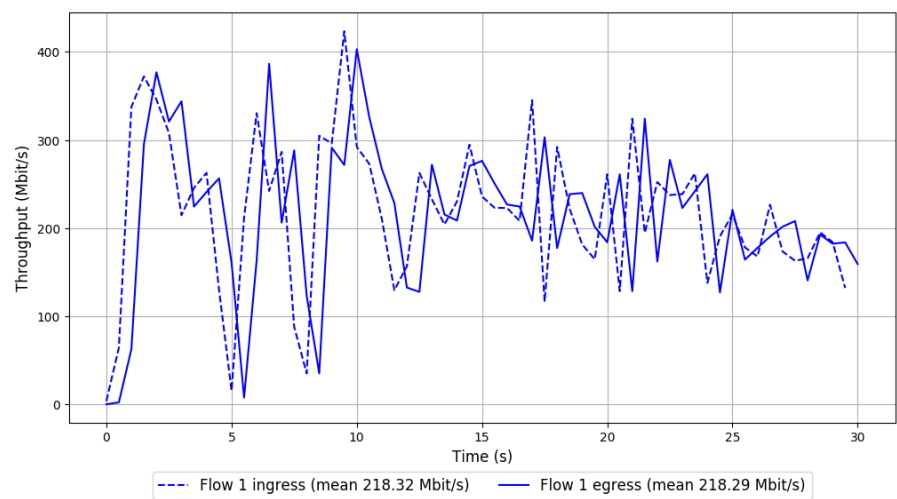


Run 5: Statistics of Verus

Start at: 2018-05-25 23:13:29  
End at: 2018-05-25 23:13:59  
Local clock offset: 0.203 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-05-26 02:24:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 218.29 Mbit/s  
95th percentile per-packet one-way delay: 102.613 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 218.29 Mbit/s  
95th percentile per-packet one-way delay: 102.613 ms  
Loss rate: 0.01%

Run 5: Report of Verus — Data Link

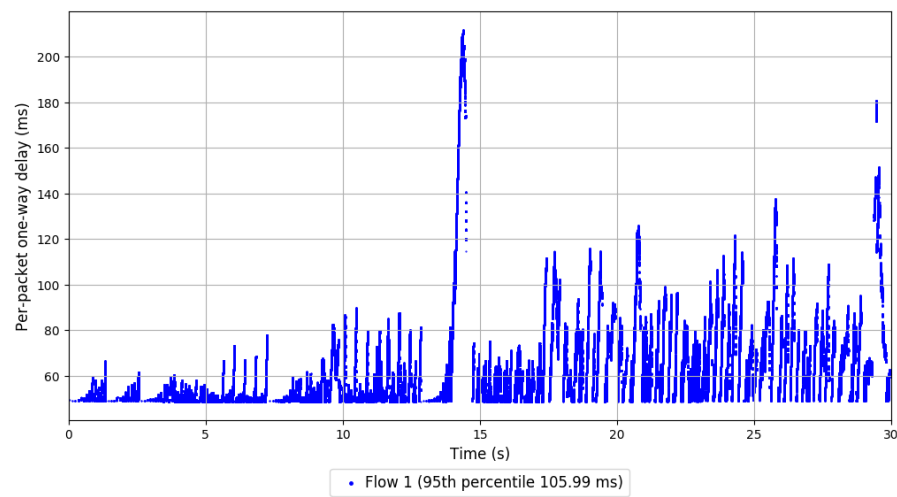
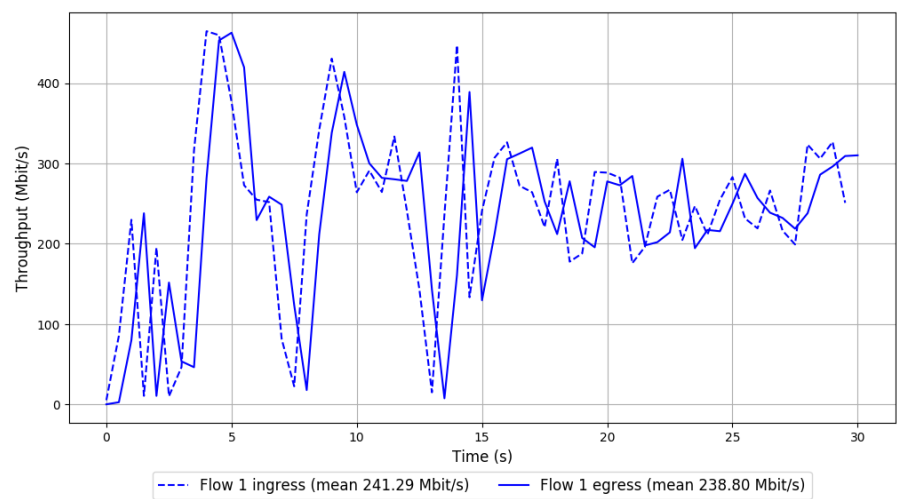


Run 6: Statistics of Verus

Start at: 2018-05-25 23:33:58  
End at: 2018-05-25 23:34:28  
Local clock offset: -0.18 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2018-05-26 02:25:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 238.80 Mbit/s  
95th percentile per-packet one-way delay: 105.994 ms  
Loss rate: 1.02%  
-- Flow 1:  
Average throughput: 238.80 Mbit/s  
95th percentile per-packet one-way delay: 105.994 ms  
Loss rate: 1.02%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-25 23:54:26

End at: 2018-05-25 23:54:56

Local clock offset: 0.164 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2018-05-26 02:25:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 244.84 Mbit/s

95th percentile per-packet one-way delay: 93.573 ms

Loss rate: 1.03%

-- Flow 1:

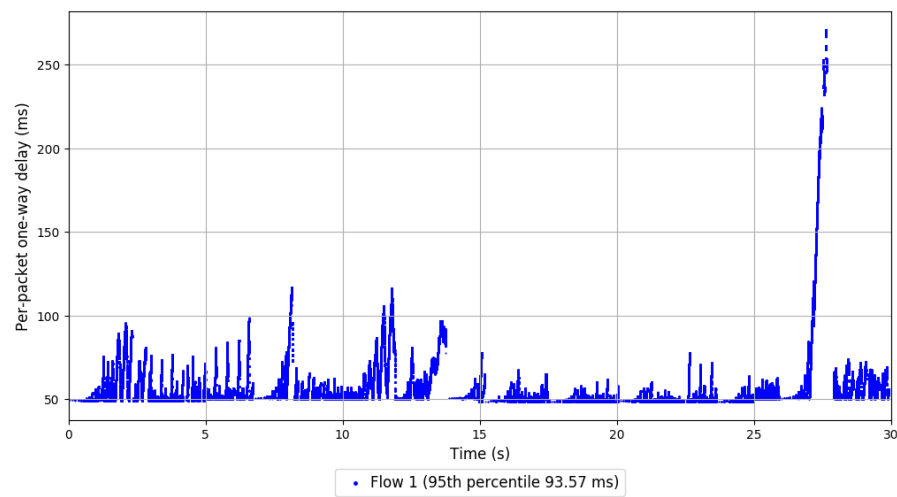
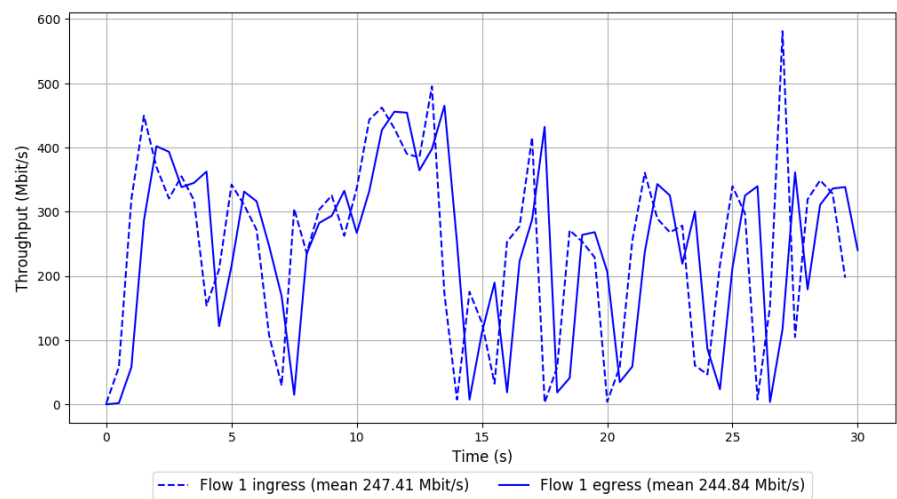
Average throughput: 244.84 Mbit/s

95th percentile per-packet one-way delay: 93.573 ms

Loss rate: 1.03%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-26 00:14:50

End at: 2018-05-26 00:15:20

Local clock offset: 0.133 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-05-26 02:25:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 257.86 Mbit/s

95th percentile per-packet one-way delay: 182.697 ms

Loss rate: 0.60%

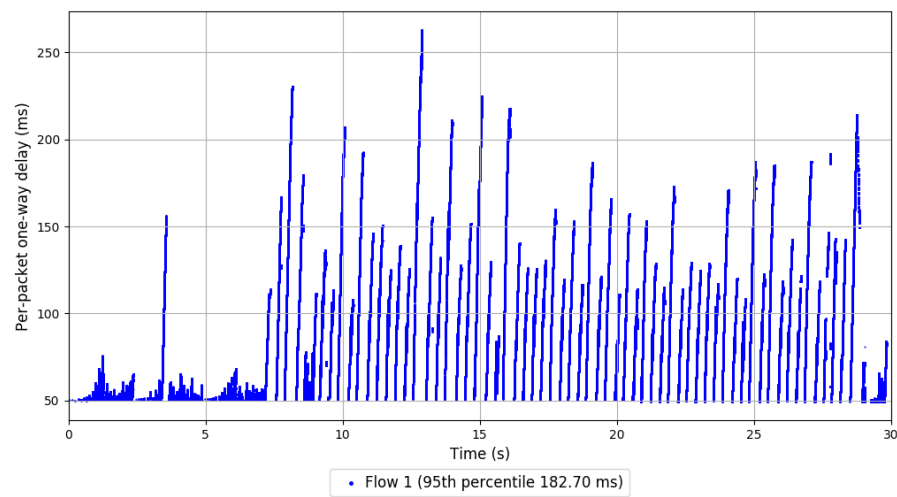
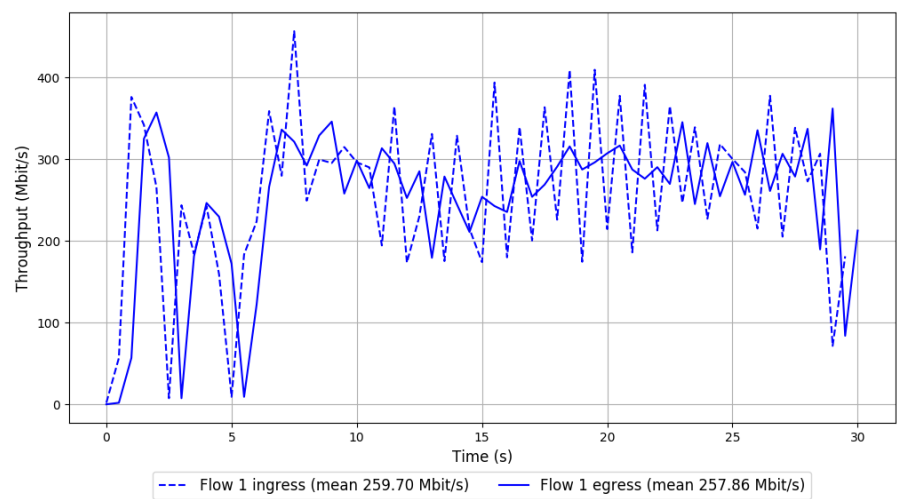
-- Flow 1:

Average throughput: 257.86 Mbit/s

95th percentile per-packet one-way delay: 182.697 ms

Loss rate: 0.60%

Run 8: Report of Verus — Data Link

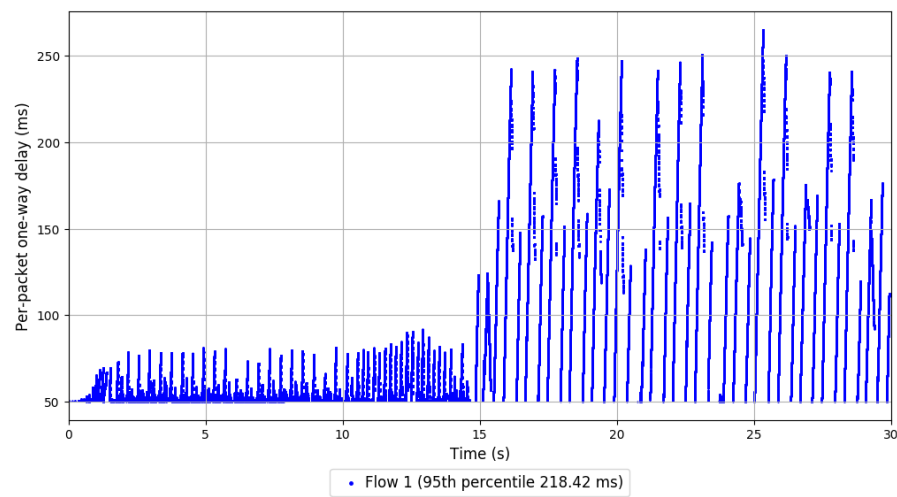
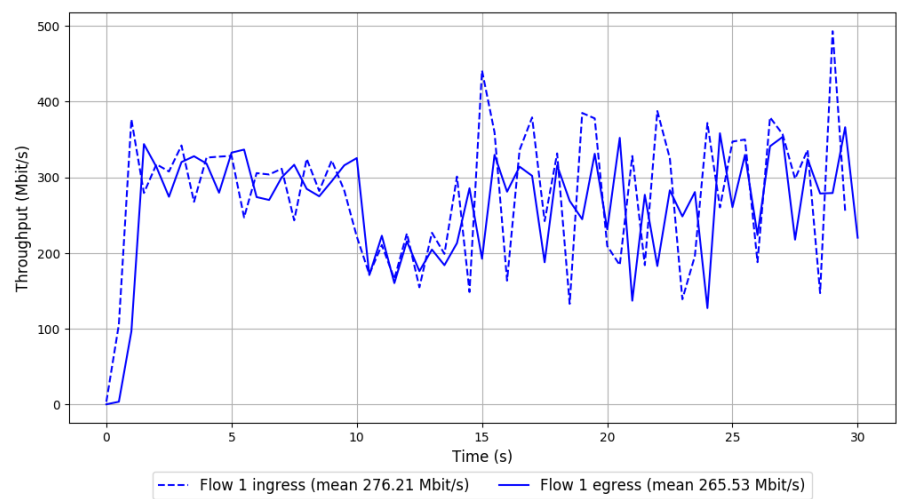


Run 9: Statistics of Verus

Start at: 2018-05-26 00:35:23  
End at: 2018-05-26 00:35:53  
Local clock offset: 0.091 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-05-26 02:26:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 265.53 Mbit/s  
95th percentile per-packet one-way delay: 218.417 ms  
Loss rate: 3.87%  
-- Flow 1:  
Average throughput: 265.53 Mbit/s  
95th percentile per-packet one-way delay: 218.417 ms  
Loss rate: 3.87%

Run 9: Report of Verus — Data Link



Run 10: Statistics of Verus

Start at: 2018-05-26 00:55:54

End at: 2018-05-26 00:56:24

Local clock offset: -0.243 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2018-05-26 02:27:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 274.91 Mbit/s

95th percentile per-packet one-way delay: 119.600 ms

Loss rate: 0.23%

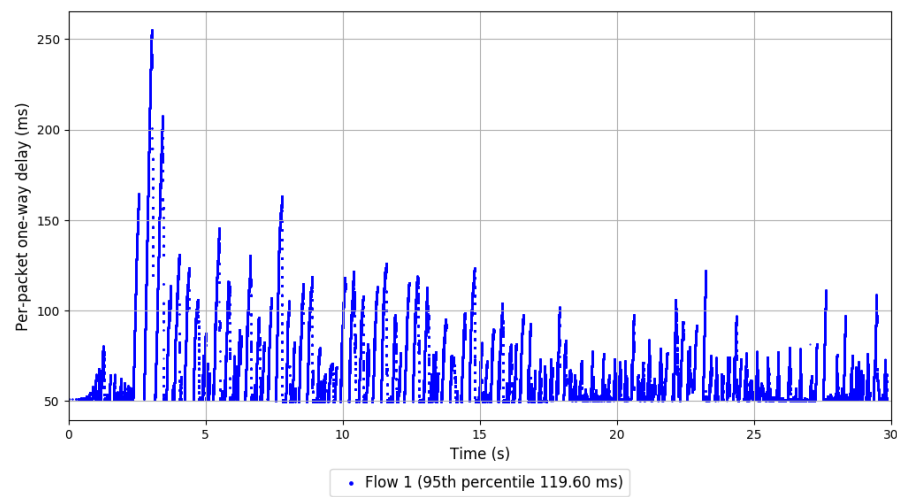
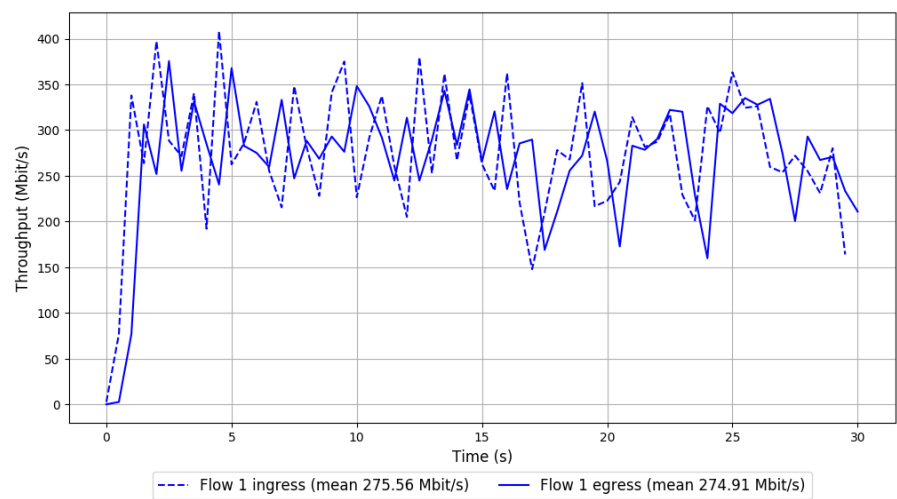
-- Flow 1:

Average throughput: 274.91 Mbit/s

95th percentile per-packet one-way delay: 119.600 ms

Loss rate: 0.23%

Run 10: Report of Verus — Data Link



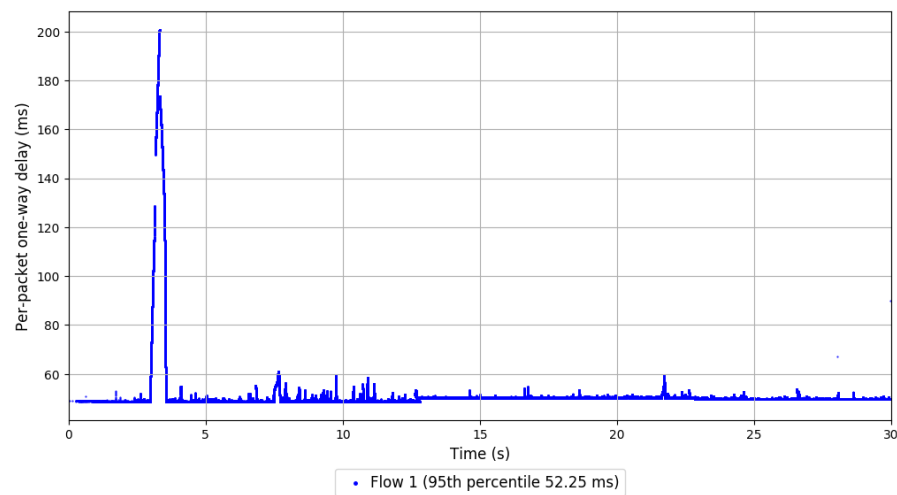
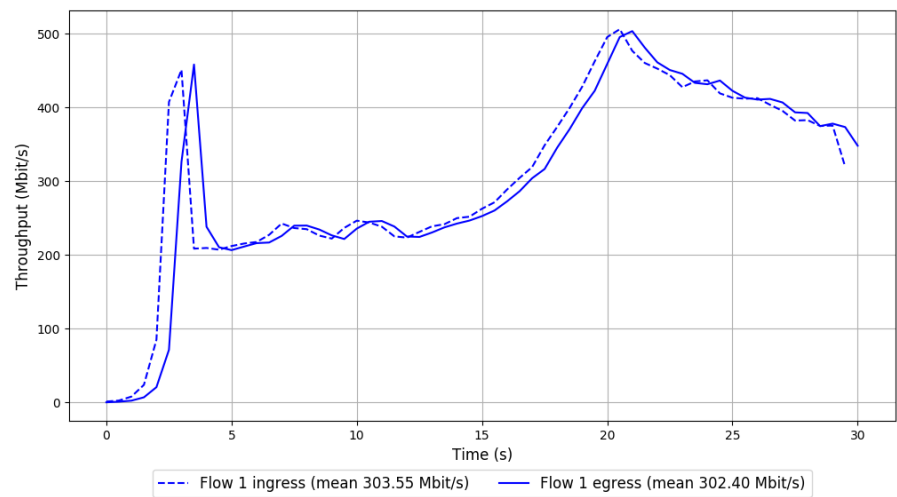
Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 21:37:18  
End at: 2018-05-25 21:37:48  
Local clock offset: -0.185 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-05-26 02:29:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 302.40 Mbit/s  
95th percentile per-packet one-way delay: 52.249 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 302.40 Mbit/s  
95th percentile per-packet one-way delay: 52.249 ms  
Loss rate: 0.28%



Run 1: Report of PCC-Vivace — Data Link

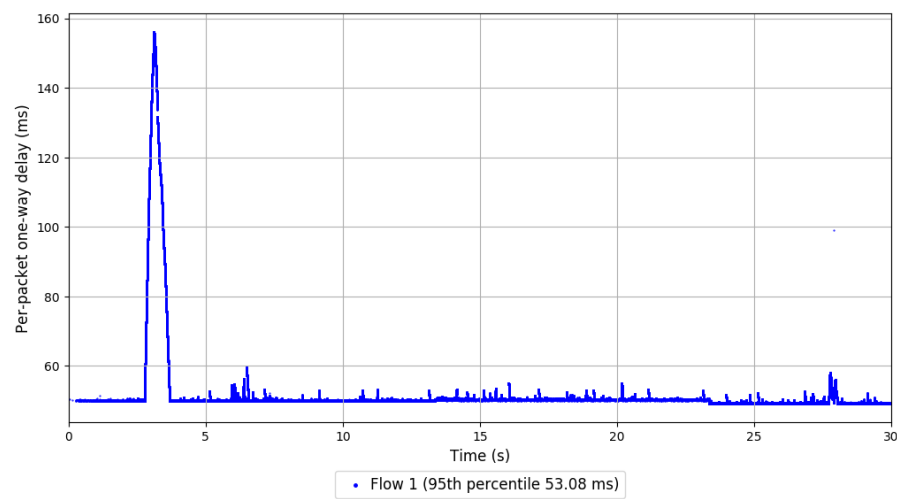
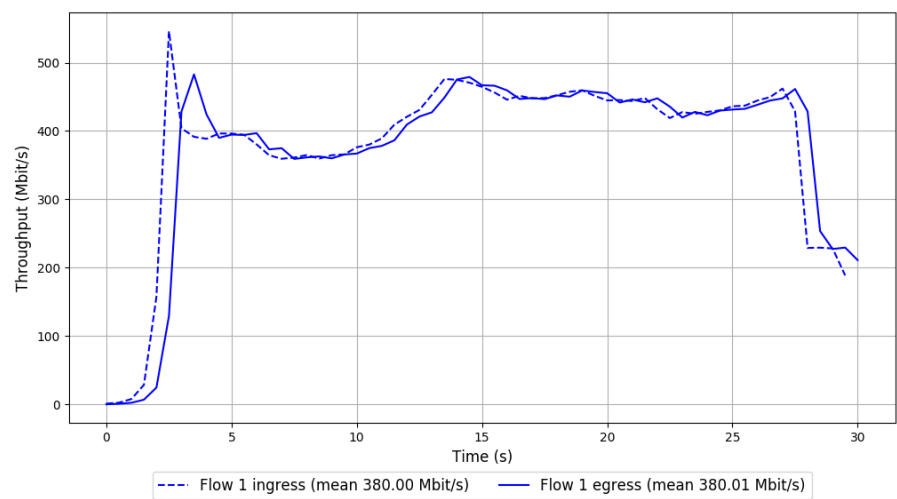


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 21:57:58  
End at: 2018-05-25 21:58:28  
Local clock offset: -0.557 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-26 02:30:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 380.01 Mbit/s  
95th percentile per-packet one-way delay: 53.083 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 380.01 Mbit/s  
95th percentile per-packet one-way delay: 53.083 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

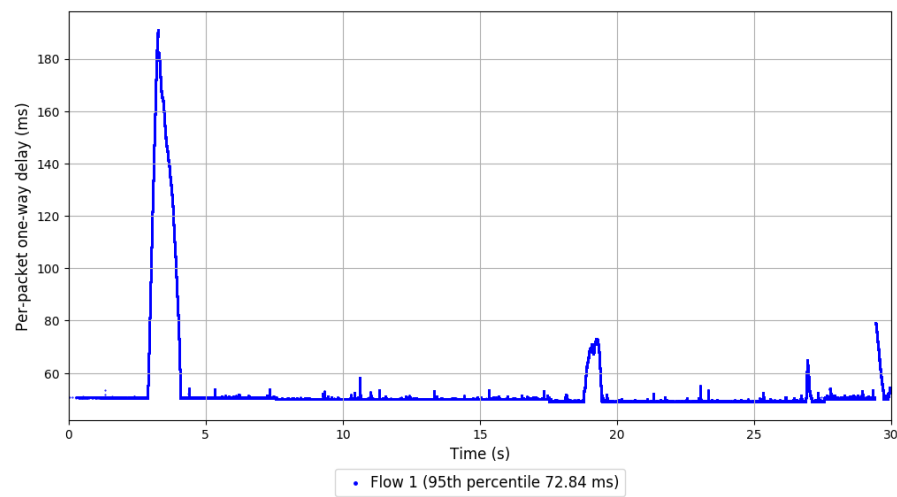
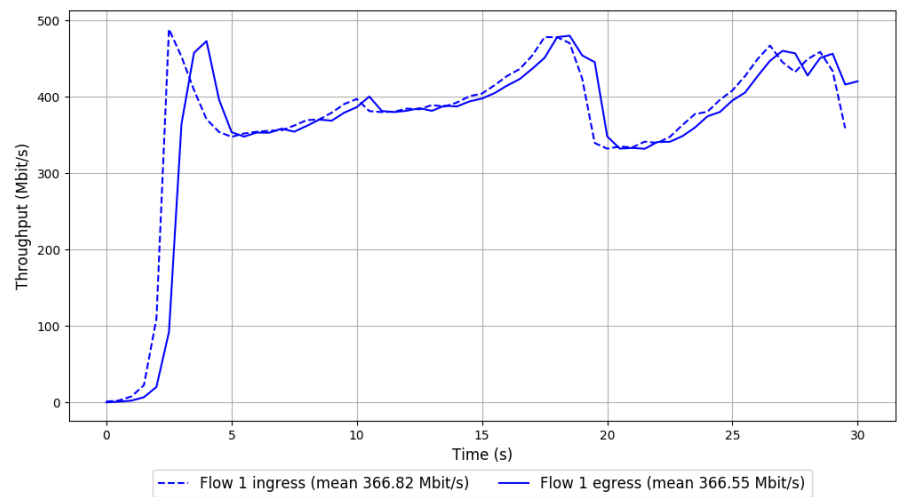


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 22:18:33  
End at: 2018-05-25 22:19:03  
Local clock offset: -0.526 ms  
Remote clock offset: -0.151 ms

# Below is generated by plot.py at 2018-05-26 02:30:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 366.55 Mbit/s  
95th percentile per-packet one-way delay: 72.840 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 366.55 Mbit/s  
95th percentile per-packet one-way delay: 72.840 ms  
Loss rate: 0.07%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-25 22:39:05

End at: 2018-05-25 22:39:35

Local clock offset: -0.266 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2018-05-26 02:31:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 405.16 Mbit/s

95th percentile per-packet one-way delay: 60.086 ms

Loss rate: 0.00%

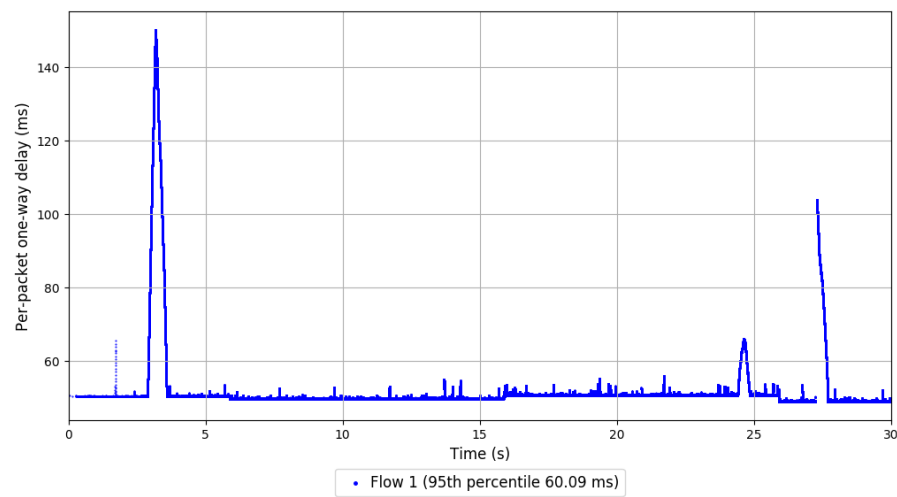
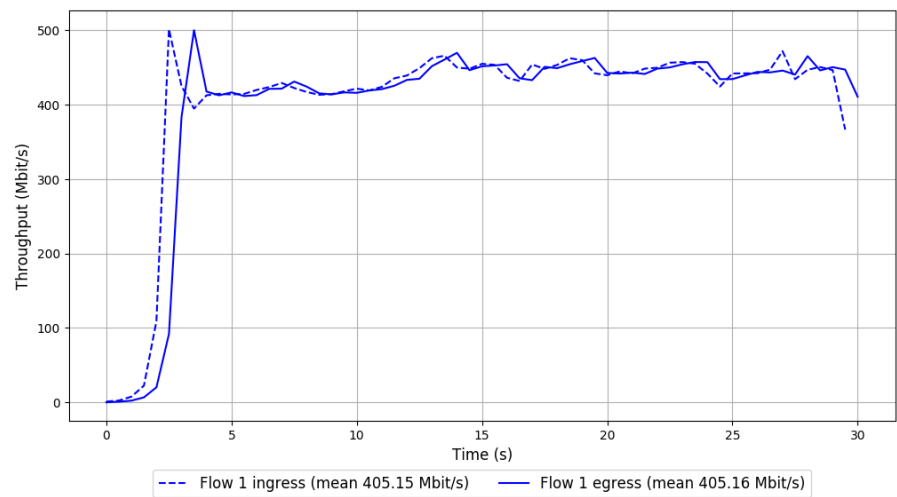
-- Flow 1:

Average throughput: 405.16 Mbit/s

95th percentile per-packet one-way delay: 60.086 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



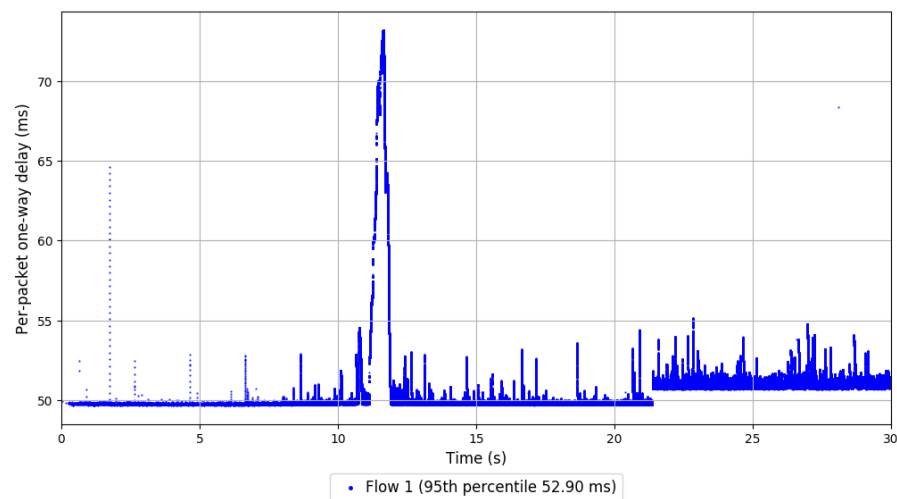
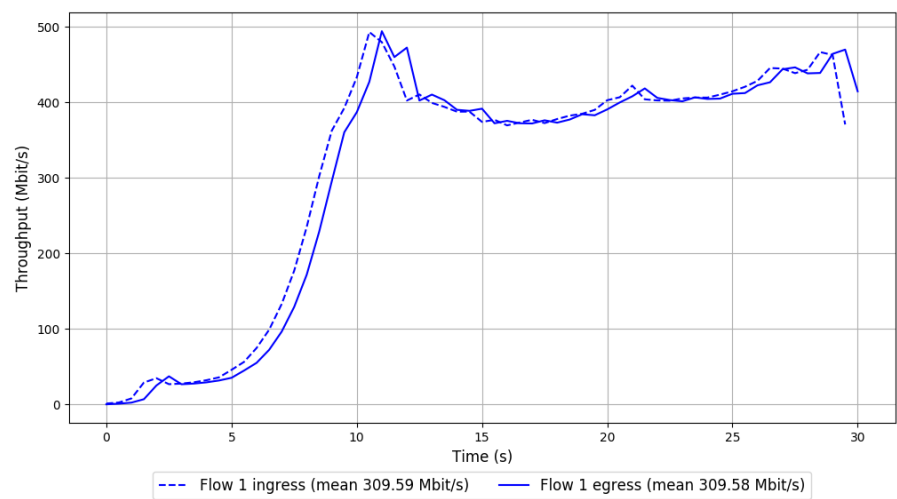
Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 22:59:38  
End at: 2018-05-25 23:00:08  
Local clock offset: -0.189 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-05-26 02:31:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 309.58 Mbit/s  
95th percentile per-packet one-way delay: 52.900 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 309.58 Mbit/s  
95th percentile per-packet one-way delay: 52.900 ms  
Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 23:19:57

End at: 2018-05-25 23:20:27

Local clock offset: 0.19 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-26 02:32:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 407.84 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.00%

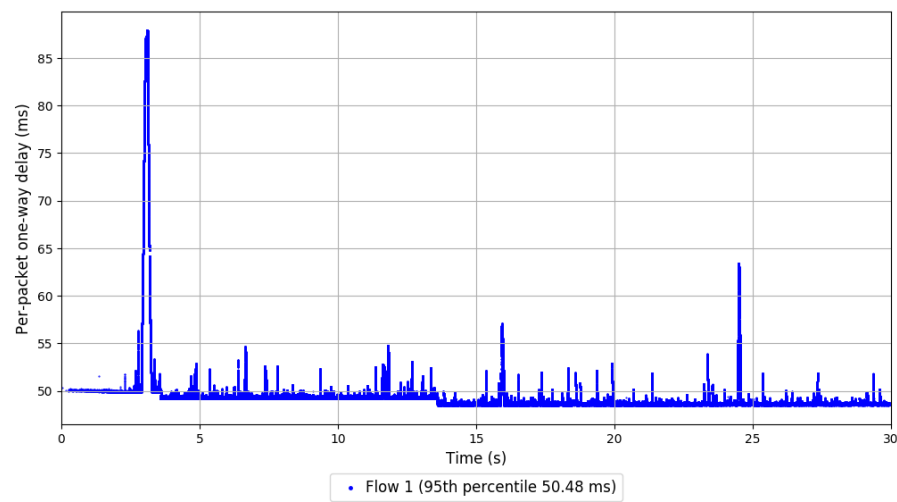
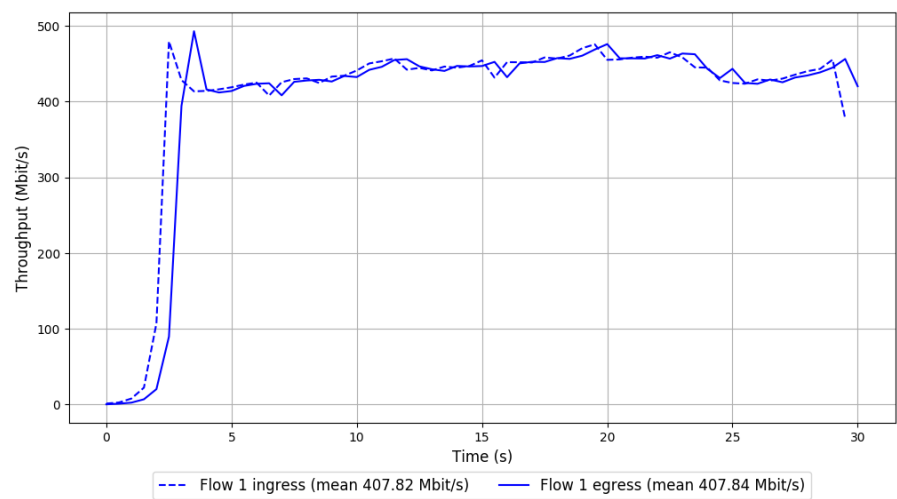
-- Flow 1:

Average throughput: 407.84 Mbit/s

95th percentile per-packet one-way delay: 50.483 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 23:40:22

End at: 2018-05-25 23:40:52

Local clock offset: -0.16 ms

Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-26 02:32:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 393.38 Mbit/s

95th percentile per-packet one-way delay: 53.974 ms

Loss rate: 0.00%

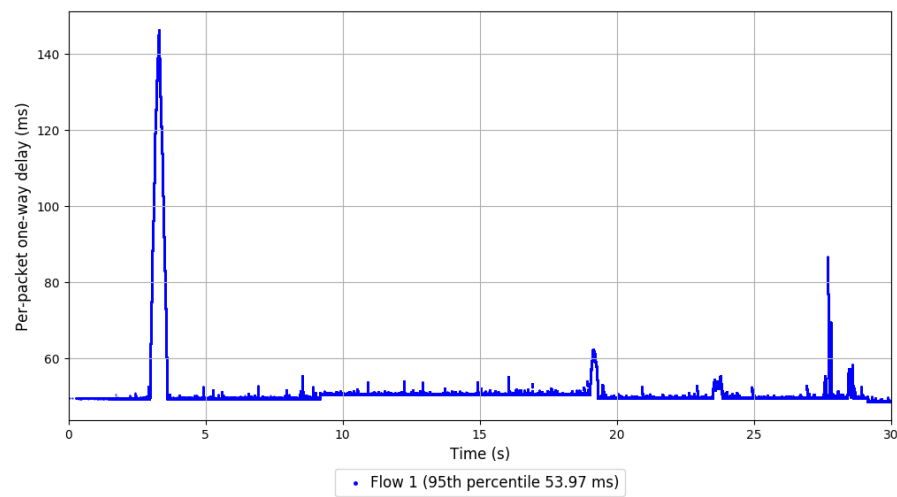
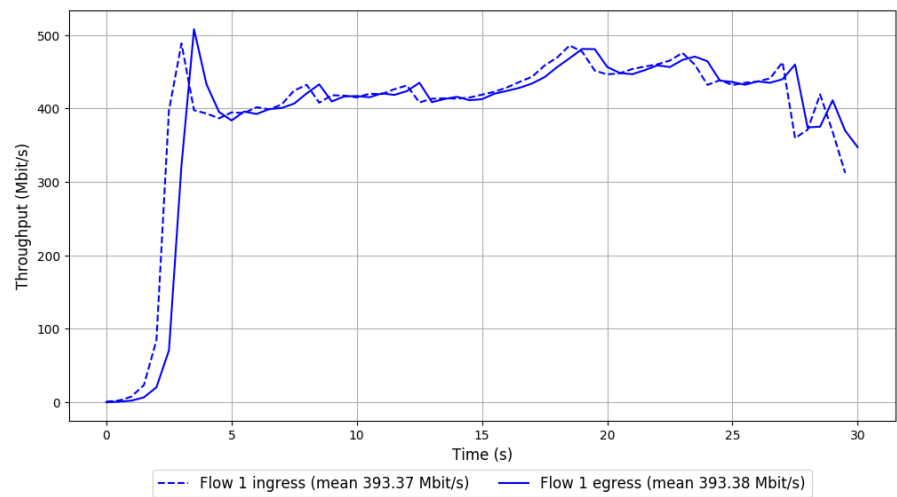
-- Flow 1:

Average throughput: 393.38 Mbit/s

95th percentile per-packet one-way delay: 53.974 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 00:00:52

End at: 2018-05-26 00:01:22

Local clock offset: -0.174 ms

Remote clock offset: 0.058 ms

# Below is generated by plot.py at 2018-05-26 02:32:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.28 Mbit/s

95th percentile per-packet one-way delay: 51.863 ms

Loss rate: 0.00%

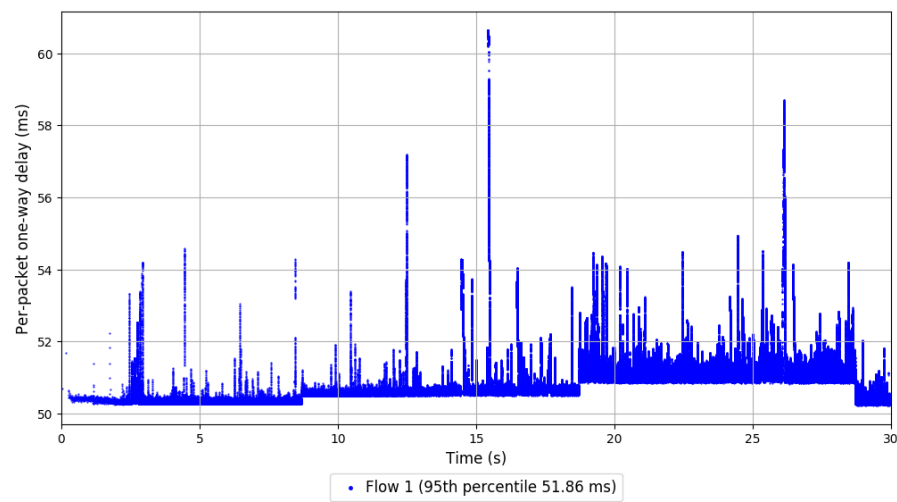
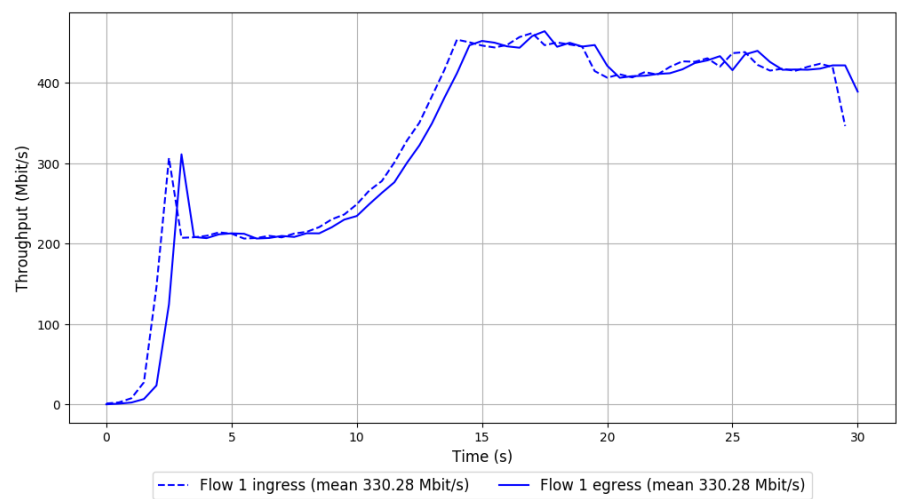
-- Flow 1:

Average throughput: 330.28 Mbit/s

95th percentile per-packet one-way delay: 51.863 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



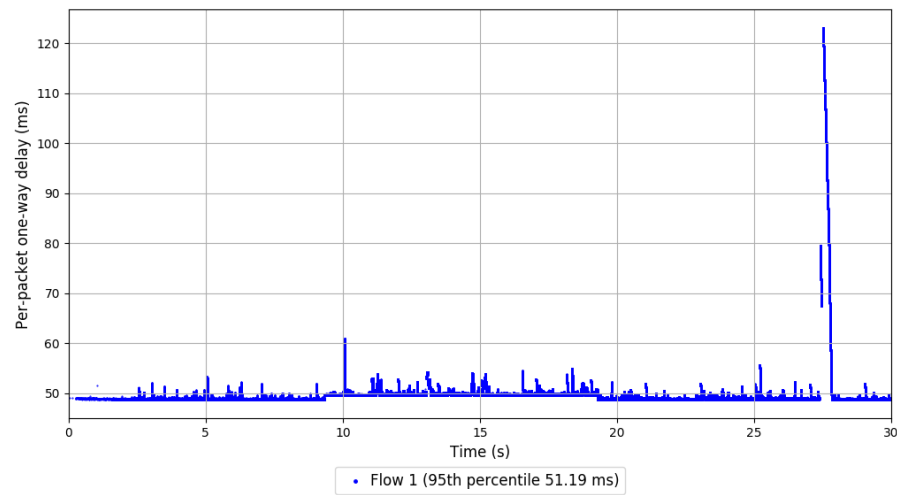
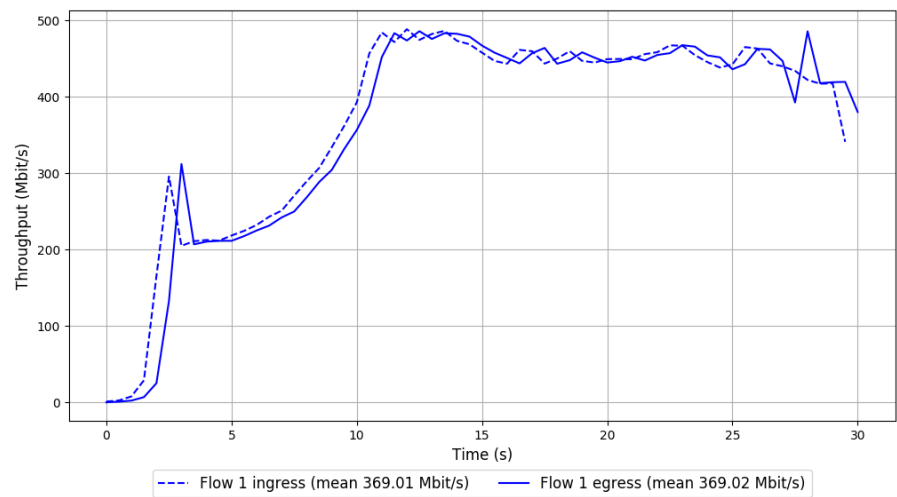
Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 00:21:22  
End at: 2018-05-26 00:21:52  
Local clock offset: -0.21 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-05-26 02:32:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 369.02 Mbit/s  
95th percentile per-packet one-way delay: 51.188 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 369.02 Mbit/s  
95th percentile per-packet one-way delay: 51.188 ms  
Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 00:41:54

End at: 2018-05-26 00:42:24

Local clock offset: -0.227 ms

Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-05-26 02:33:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 369.74 Mbit/s

95th percentile per-packet one-way delay: 62.547 ms

Loss rate: 0.06%

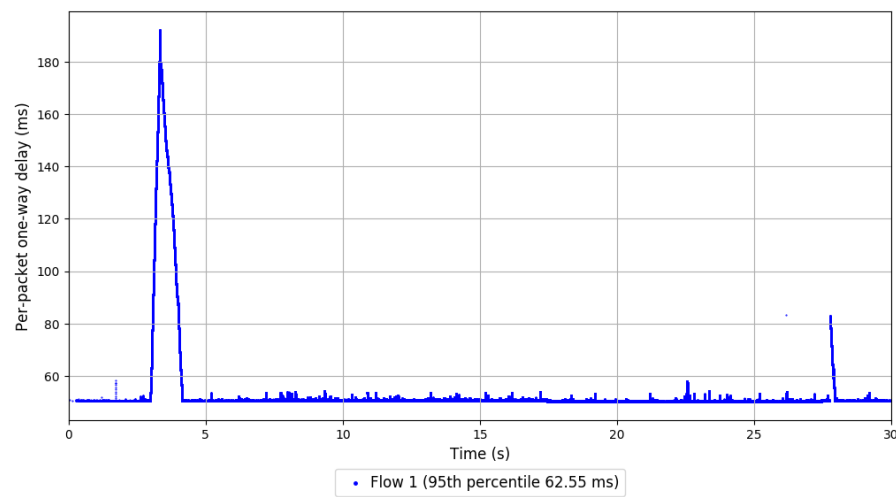
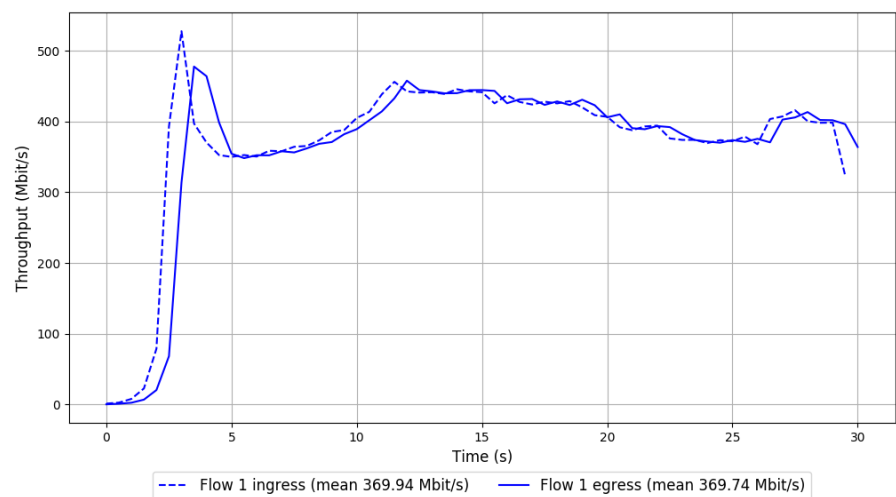
-- Flow 1:

Average throughput: 369.74 Mbit/s

95th percentile per-packet one-way delay: 62.547 ms

Loss rate: 0.06%

Run 10: Report of PCC-Vivace — Data Link

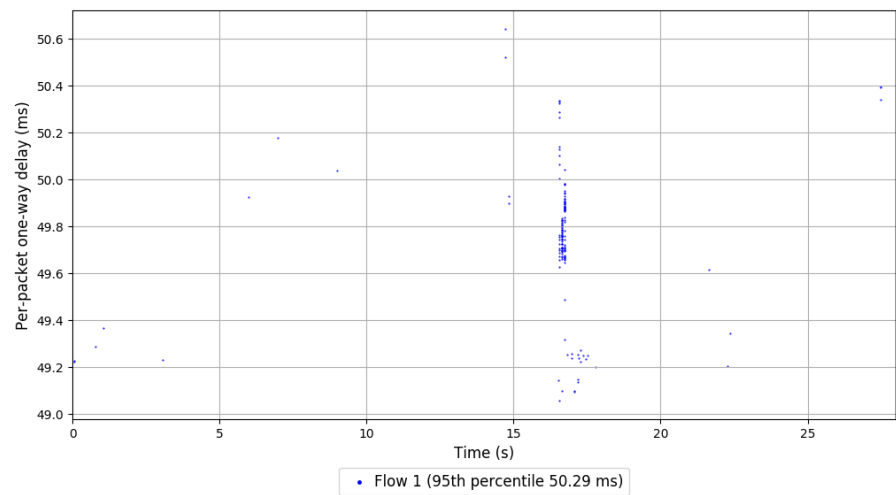
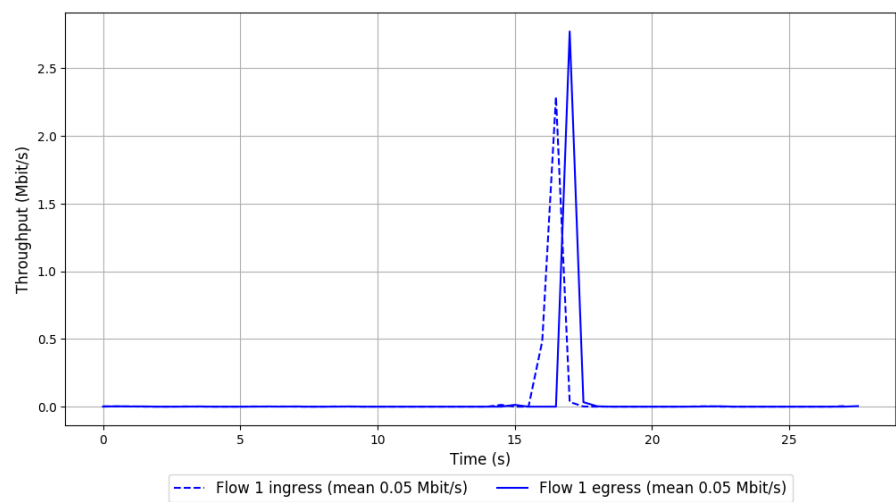


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-25 21:33:29
End at: 2018-05-25 21:33:59
Local clock offset: -0.169 ms
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2018-05-26 02:33:02
# Datalink statistics
-- Total of 1 flow:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.286 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

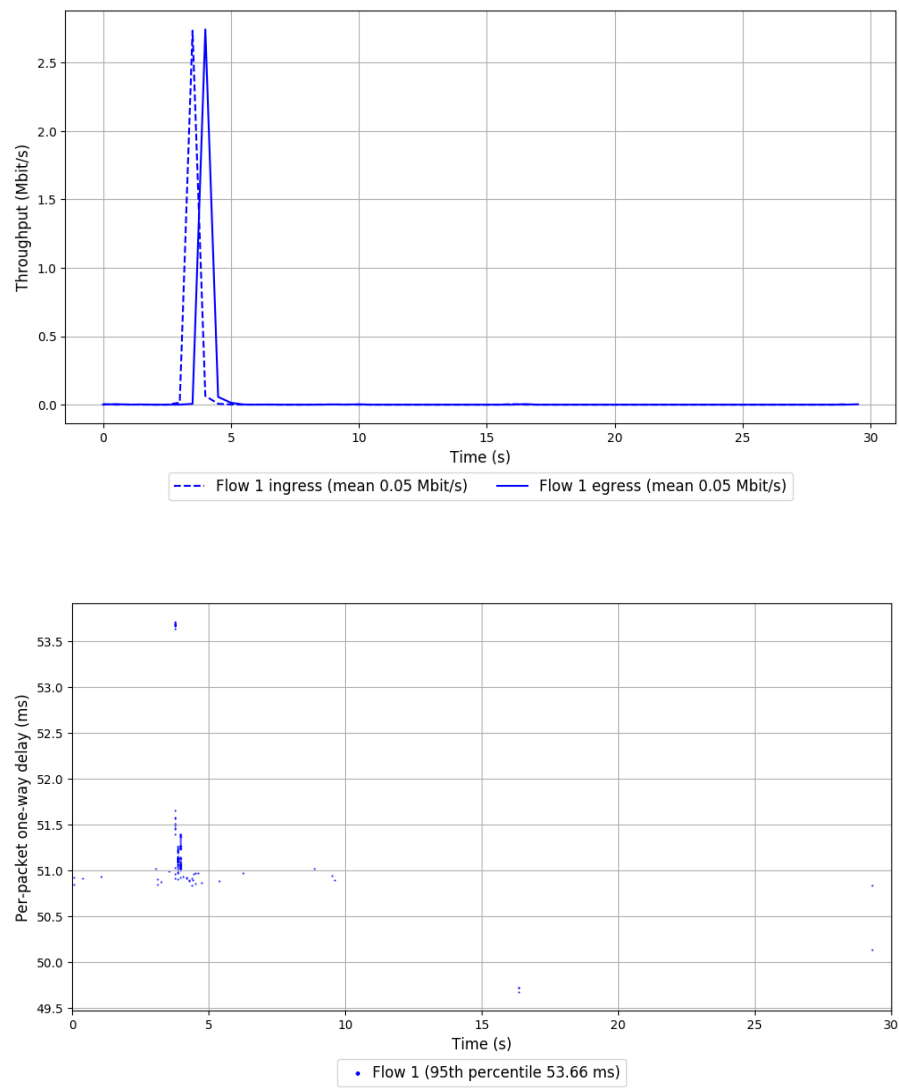


Run 2: Statistics of WebRTC media

Start at: 2018-05-25 21:54:04  
End at: 2018-05-25 21:54:34  
Local clock offset: -0.551 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2018-05-26 02:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 53.665 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 53.665 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



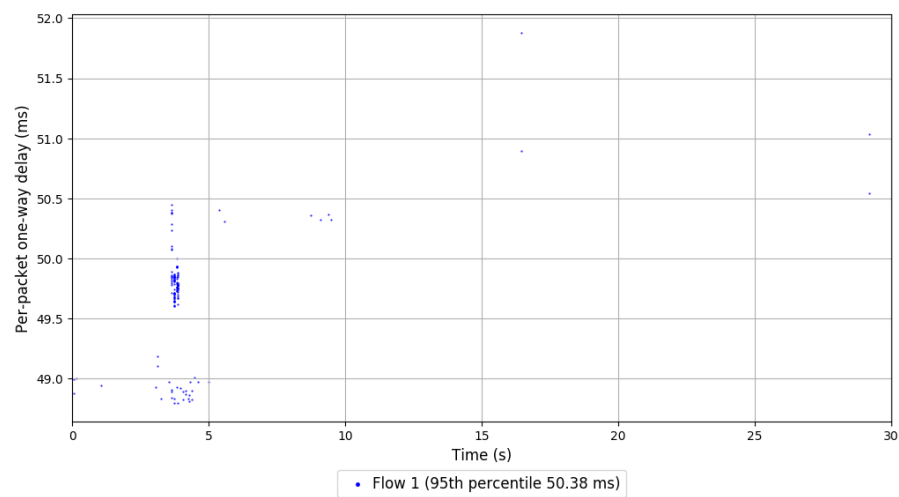
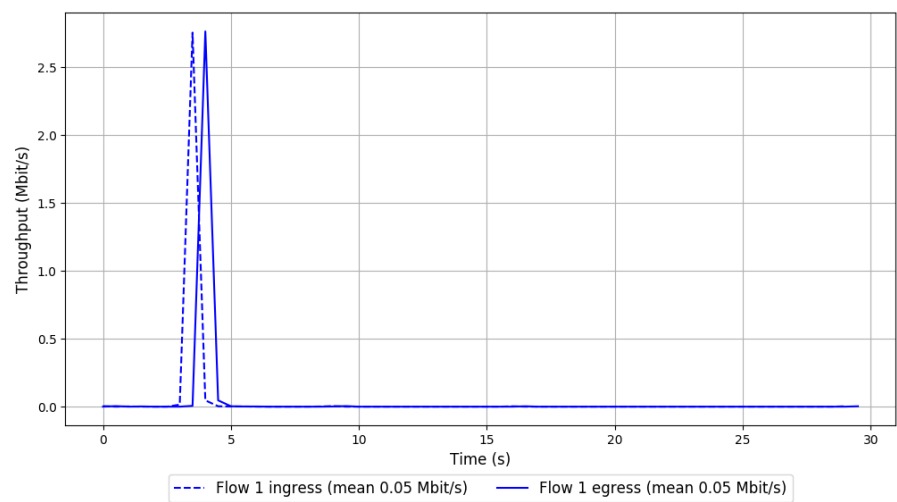
Run 3: Statistics of WebRTC media

Start at: 2018-05-25 22:14:37  
End at: 2018-05-25 22:15:07  
Local clock offset: -0.16 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2018-05-26 02:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.385 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.385 ms  
Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link

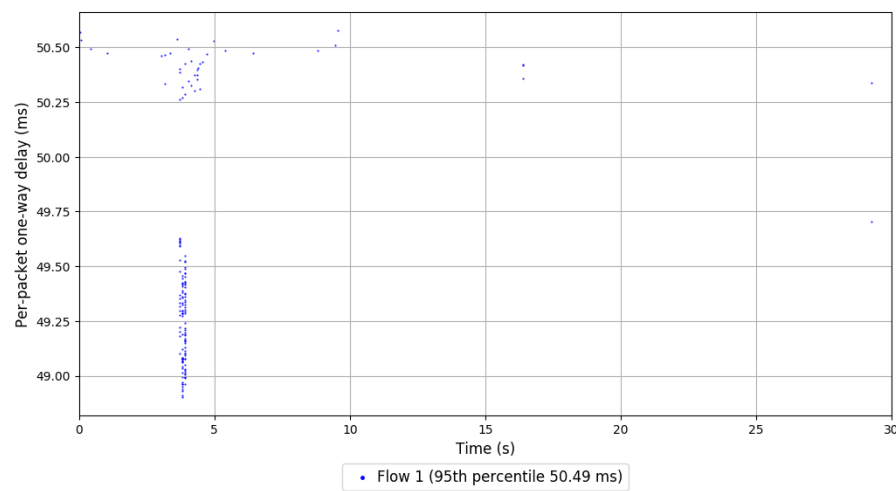
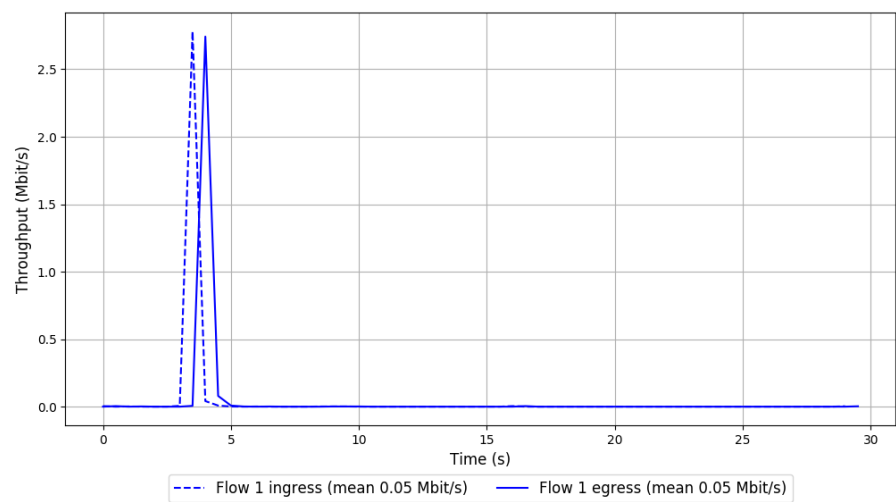


Run 4: Statistics of WebRTC media

Start at: 2018-05-25 22:35:08  
End at: 2018-05-25 22:35:38  
Local clock offset: -0.236 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 02:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.487 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.487 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-25 22:55:52

End at: 2018-05-25 22:56:22

Local clock offset: -0.162 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 02:33:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%

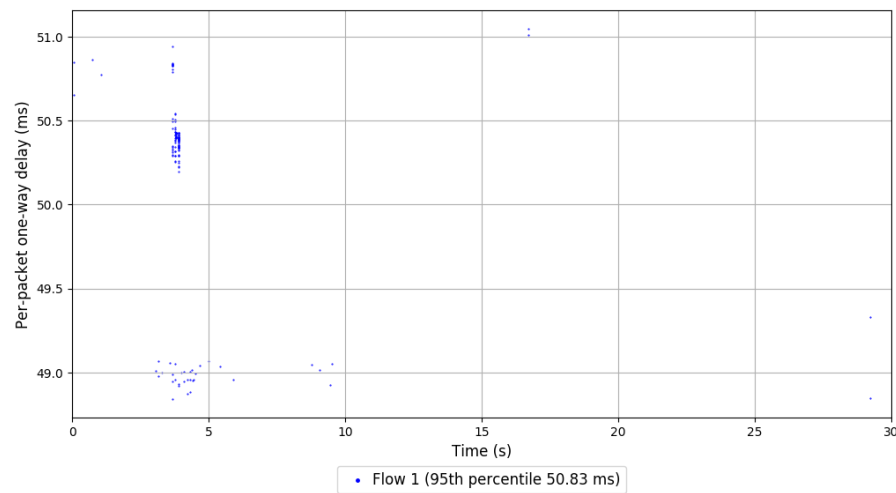
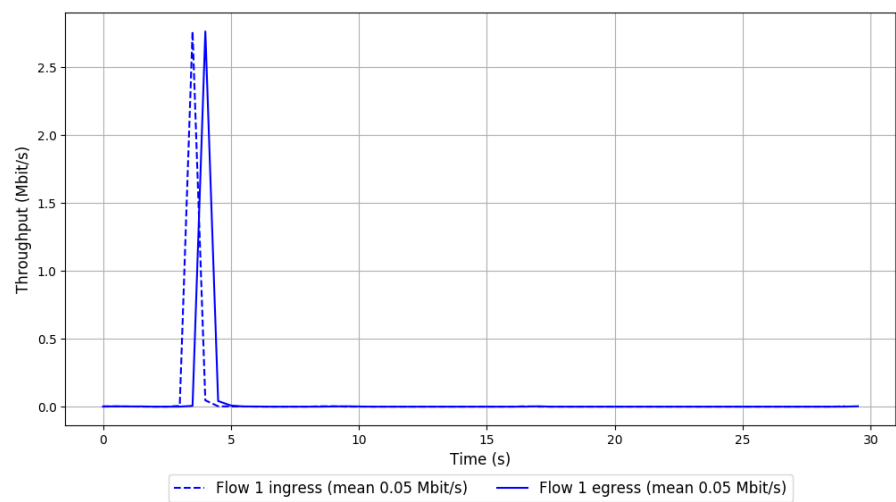
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.832 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

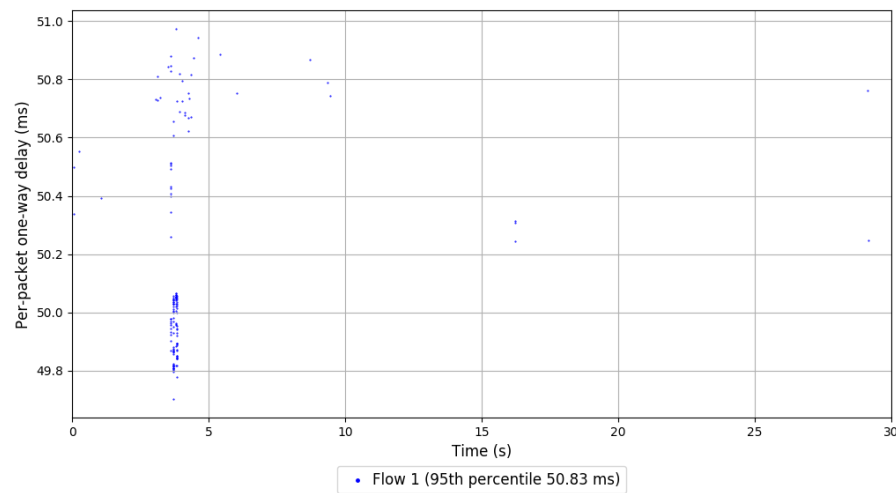
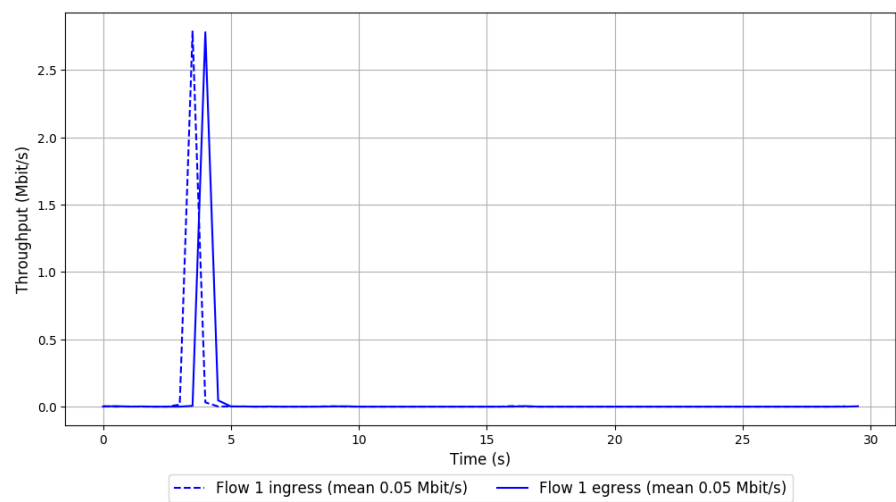


Run 6: Statistics of WebRTC media

Start at: 2018-05-25 23:16:13  
End at: 2018-05-25 23:16:43  
Local clock offset: -0.167 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-05-26 02:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.829 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.829 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



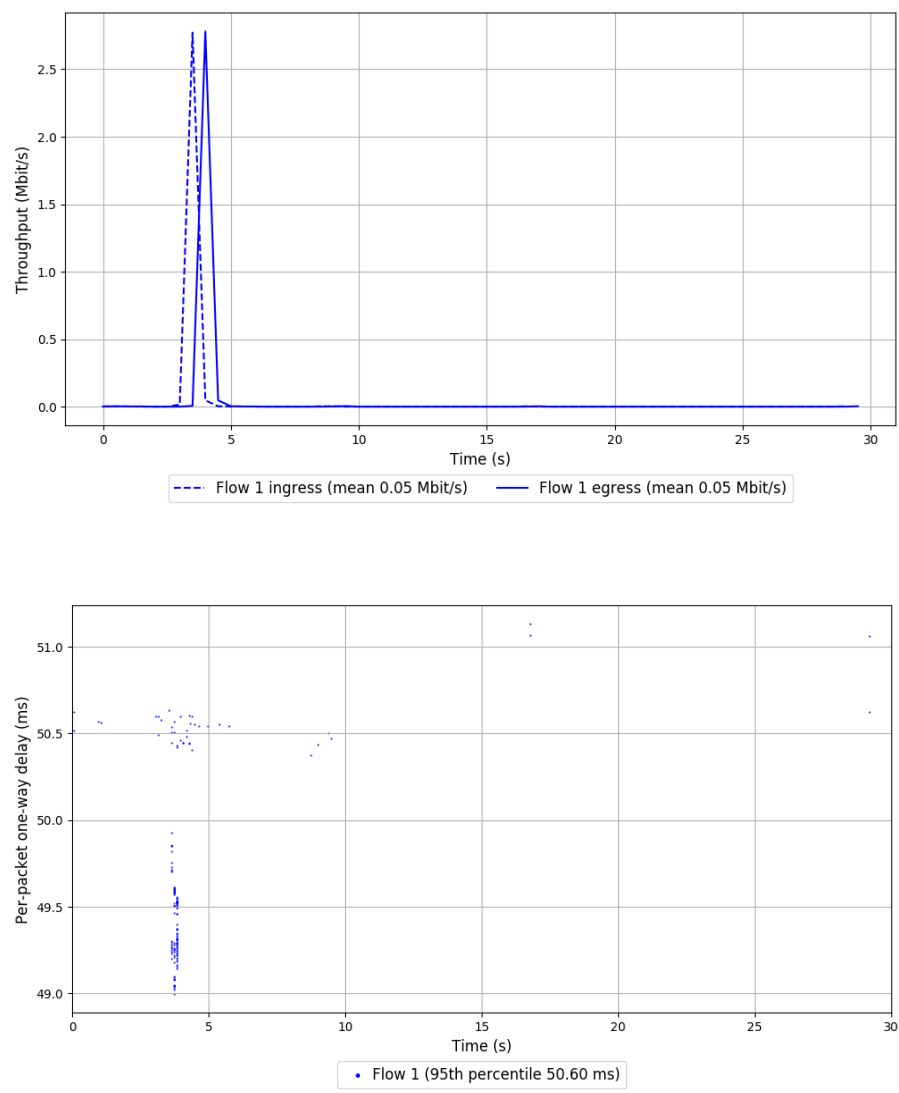
Run 7: Statistics of WebRTC media

Start at: 2018-05-25 23:36:34  
End at: 2018-05-25 23:37:04  
Local clock offset: -0.18 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2018-05-26 02:33:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.600 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 50.600 ms  
Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 23:57:09

End at: 2018-05-25 23:57:39

Local clock offset: 0.184 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2018-05-26 02:33:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.840 ms

Loss rate: 0.00%

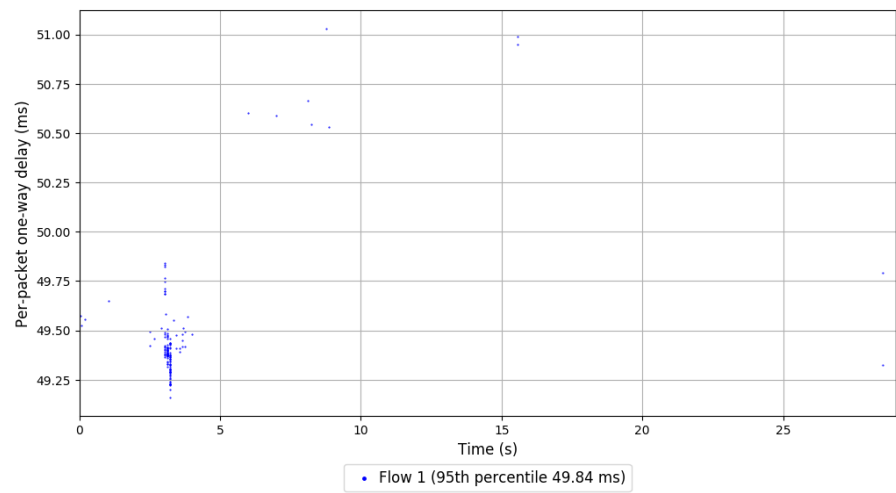
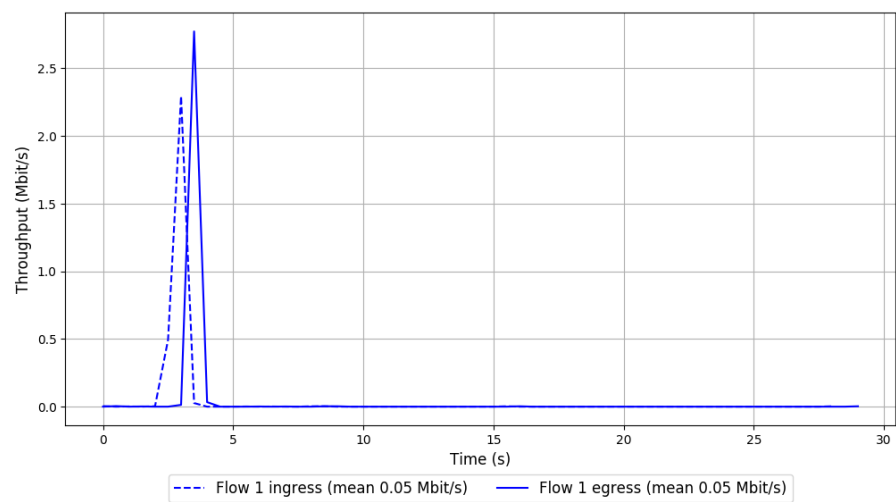
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 49.840 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-26 00:17:30

End at: 2018-05-26 00:18:00

Local clock offset: -0.266 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2018-05-26 02:33:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.00%

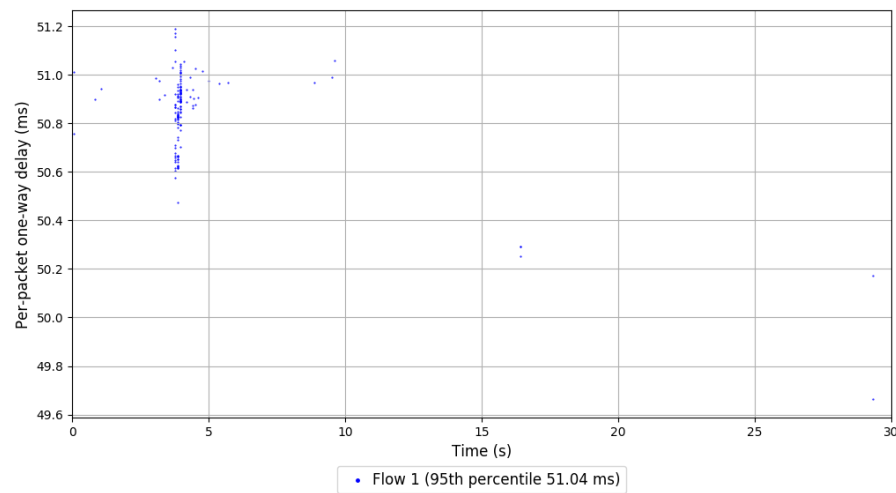
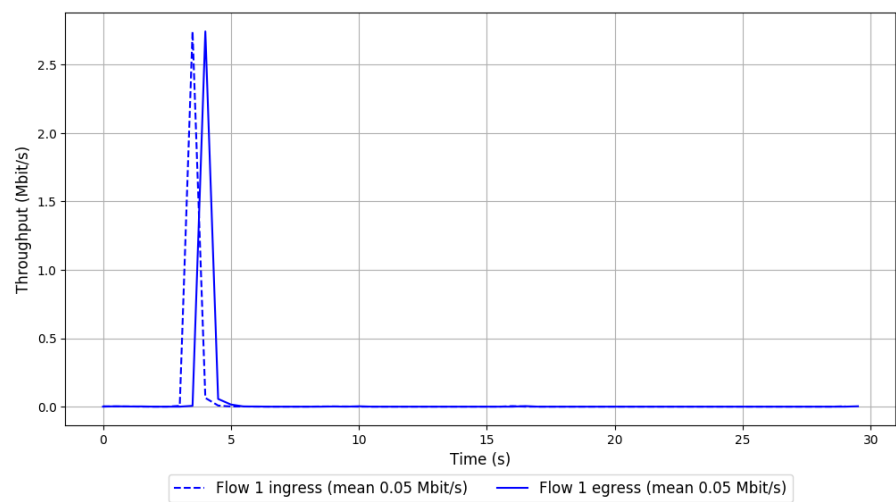
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 51.037 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-26 00:38:01

End at: 2018-05-26 00:38:31

Local clock offset: 0.144 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2018-05-26 02:33:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.502 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

