

## Pantheon Report

Generated at 2018-05-25 14:33:18 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

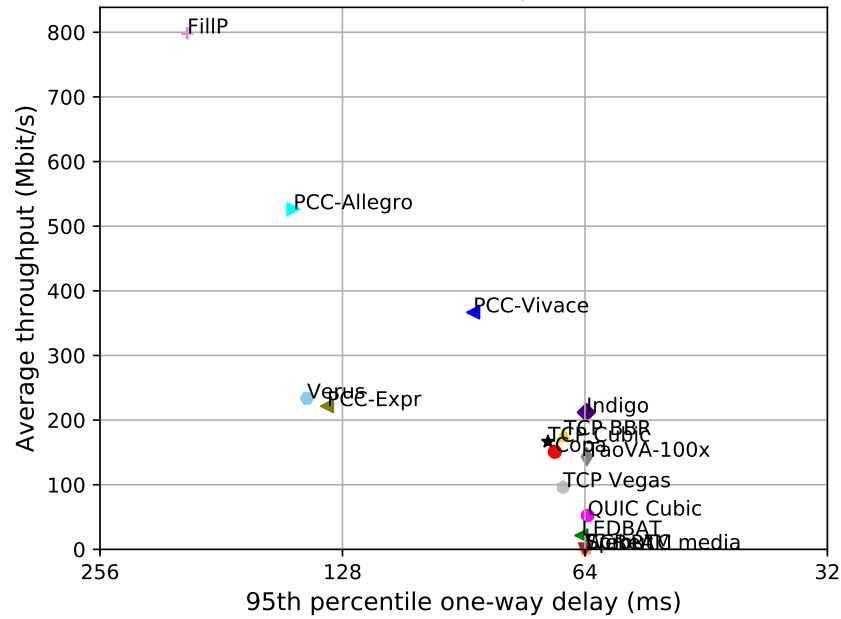
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

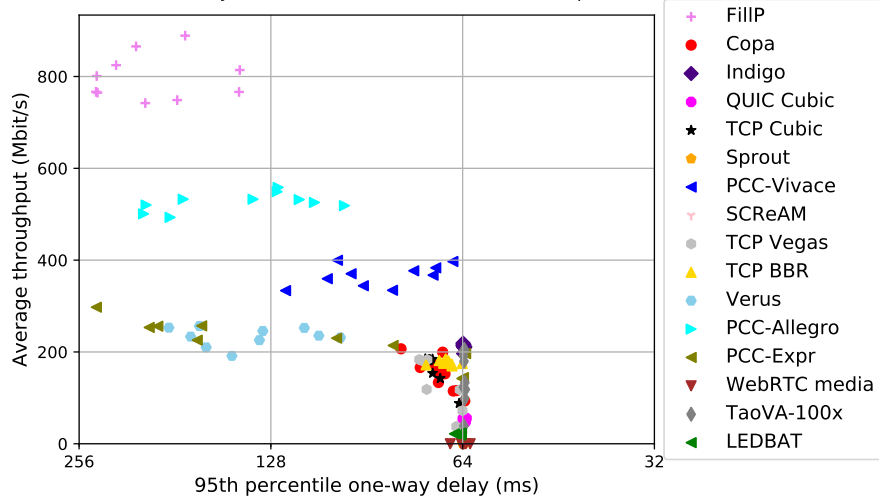
Git summary:

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

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



test from GCE Tokyo 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	176.88	67.97	0.42
Copa	10	151.03	69.75	0.30
TCP Cubic	10	166.62	71.14	0.45
FillP	10	798.30	199.52	3.82
Indigo	10	211.94	63.76	0.45
LEDBAT	10	21.64	64.65	0.78
PCC-Allegro	10	526.34	147.29	1.41
PCC-Expr	10	221.65	133.78	1.45
QUIC Cubic	9	52.47	63.51	0.65
SCReAM	10	0.22	63.69	0.41
Sprout	10	0.94	63.86	0.27
TaoVA-100x	9	143.31	63.66	0.39
TCP Vegas	10	96.21	68.14	0.46
Verus	10	233.52	141.66	0.96
PCC-Vivace	10	366.63	88.08	0.56
WebRTC media	10	0.05	64.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-25 09:20:11

End at: 2018-05-25 09:20:41

Local clock offset: -0.05 ms

Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-05-25 12:53:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 171.87 Mbit/s

95th percentile per-packet one-way delay: 73.055 ms

Loss rate: 0.43%

-- Flow 1:

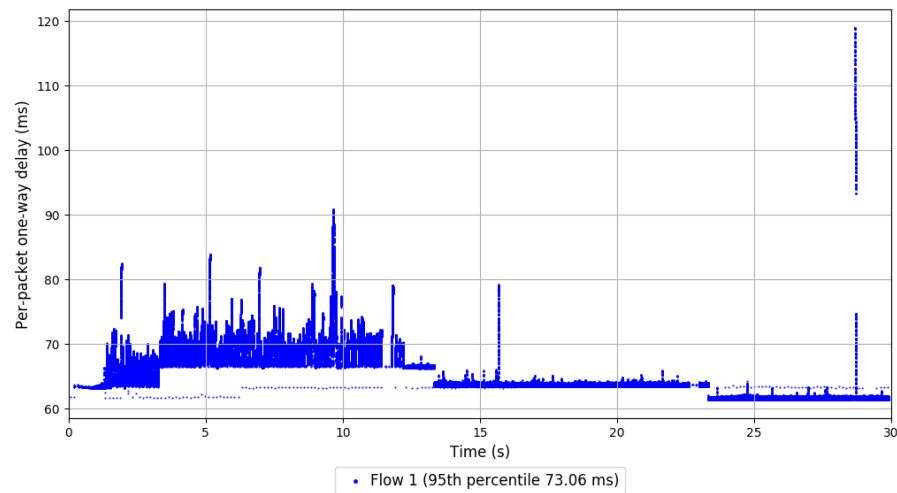
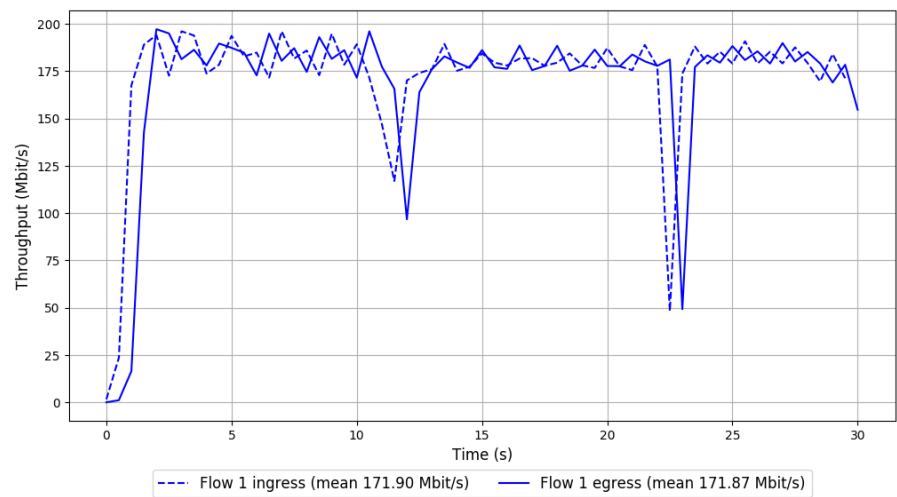
Average throughput: 171.87 Mbit/s

95th percentile per-packet one-way delay: 73.055 ms

Loss rate: 0.43%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-25 09:40:39

End at: 2018-05-25 09:41:09

Local clock offset: -0.051 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2018-05-25 12:54:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.69 Mbit/s

95th percentile per-packet one-way delay: 67.371 ms

Loss rate: 0.42%

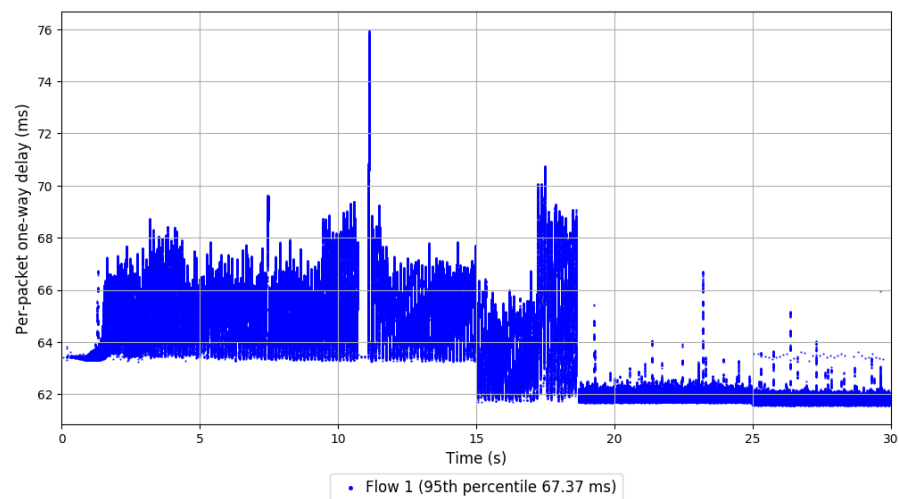
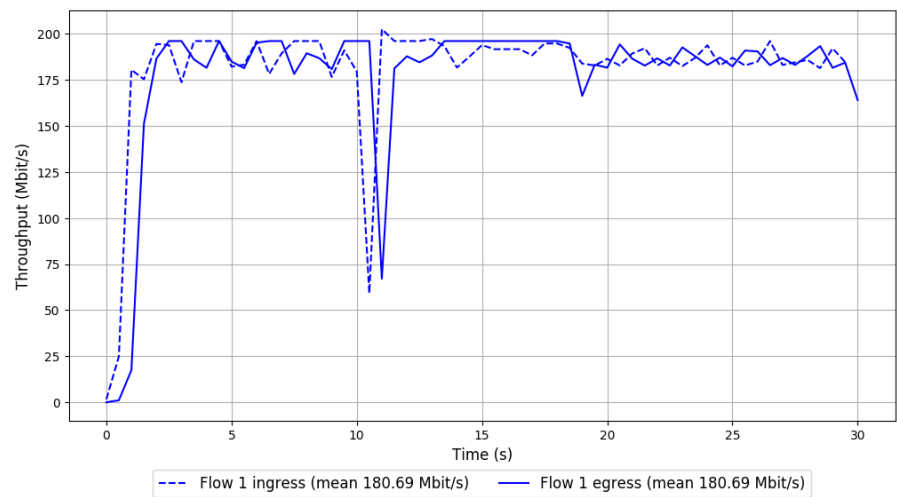
-- Flow 1:

Average throughput: 180.69 Mbit/s

95th percentile per-packet one-way delay: 67.371 ms

Loss rate: 0.42%

Run 2: Report of TCP BBR — Data Link

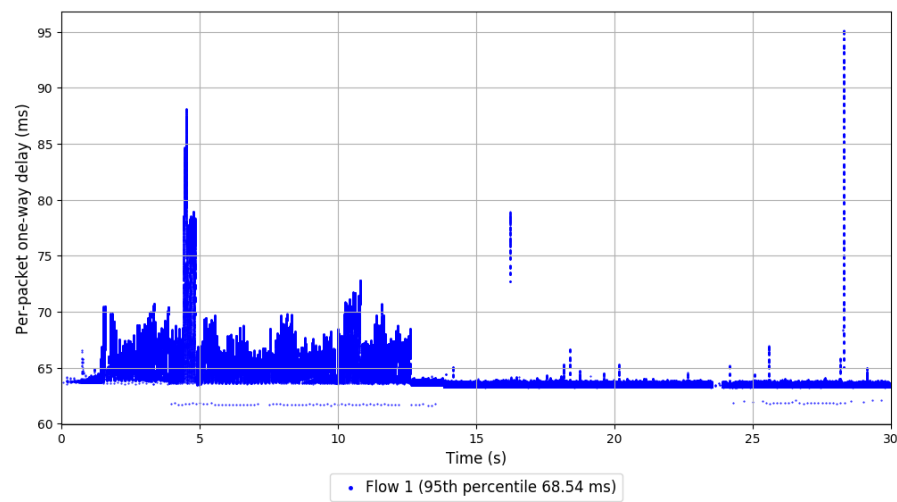
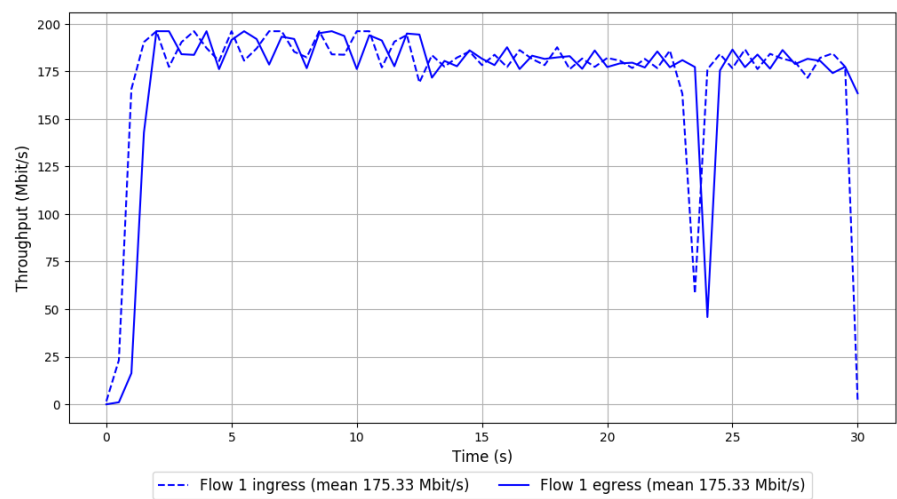


Run 3: Statistics of TCP BBR

Start at: 2018-05-25 10:01:10  
End at: 2018-05-25 10:01:40  
Local clock offset: -0.018 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-05-25 12:54:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 175.33 Mbit/s  
95th percentile per-packet one-way delay: 68.544 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 175.33 Mbit/s  
95th percentile per-packet one-way delay: 68.544 ms  
Loss rate: 0.42%

Run 3: Report of TCP BBR — Data Link

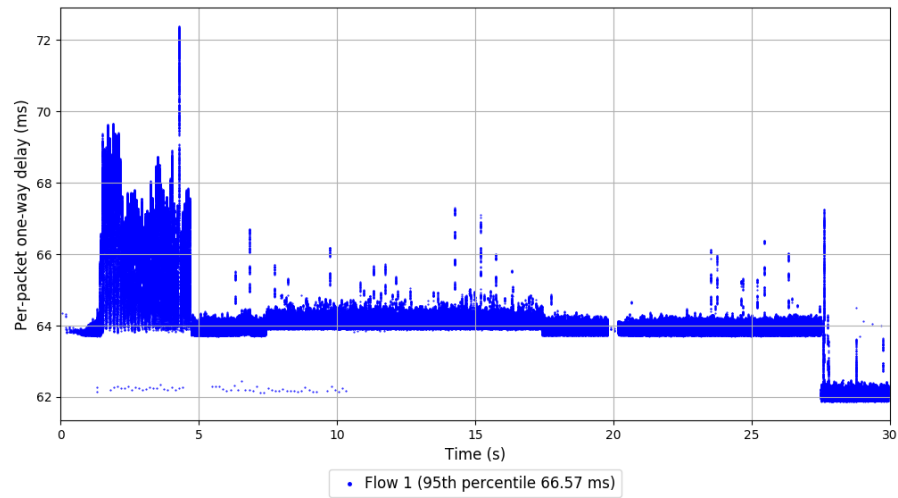
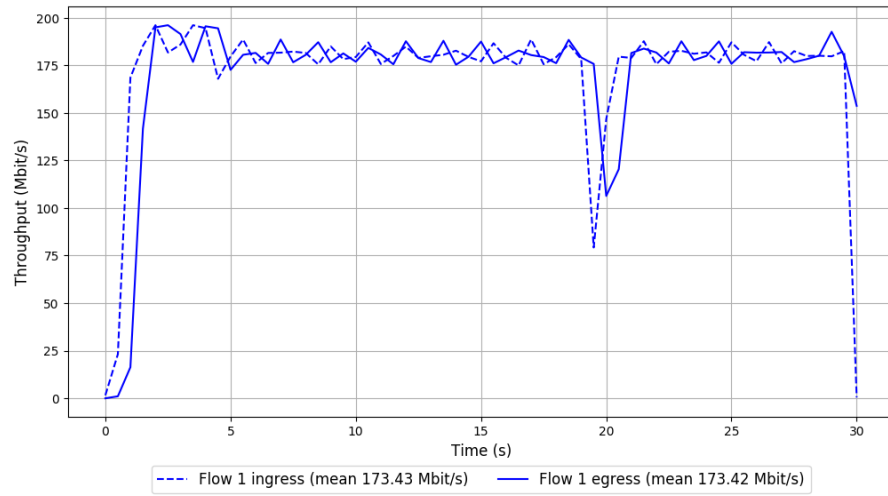


Run 4: Statistics of TCP BBR

Start at: 2018-05-25 10:21:46  
End at: 2018-05-25 10:22:16  
Local clock offset: -0.019 ms  
Remote clock offset: -0.377 ms

# Below is generated by plot.py at 2018-05-25 12:54:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 173.42 Mbit/s  
95th percentile per-packet one-way delay: 66.573 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 173.42 Mbit/s  
95th percentile per-packet one-way delay: 66.573 ms  
Loss rate: 0.43%

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



Run 5: Statistics of TCP BBR

Start at: 2018-05-25 10:42:12

End at: 2018-05-25 10:42:42

Local clock offset: 0.047 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2018-05-25 12:54:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 184.93 Mbit/s

95th percentile per-packet one-way delay: 68.066 ms

Loss rate: 0.47%

-- Flow 1:

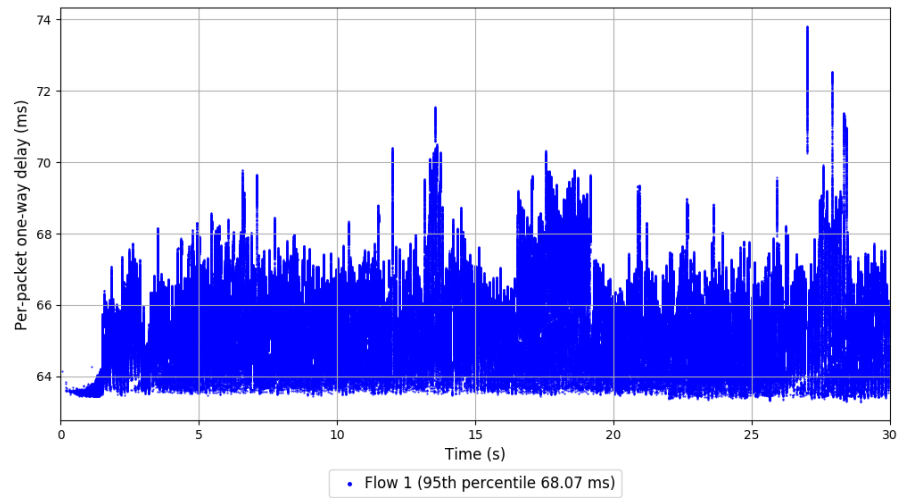
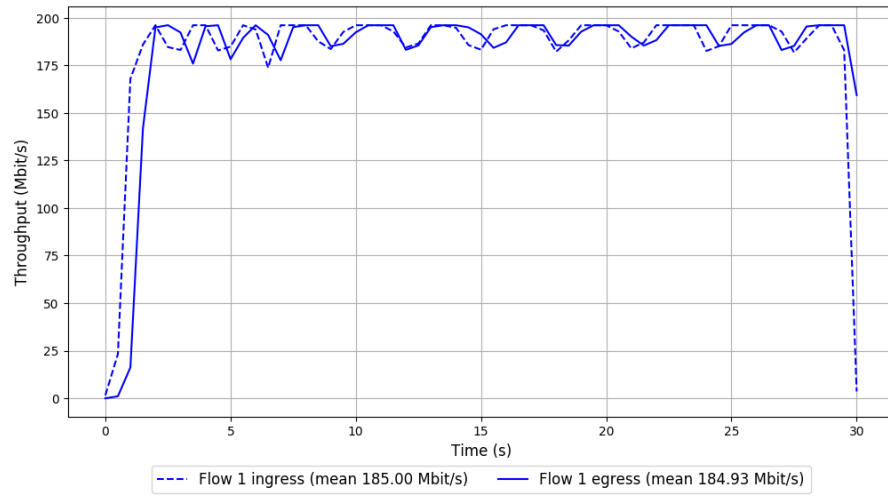
Average throughput: 184.93 Mbit/s

95th percentile per-packet one-way delay: 68.066 ms

Loss rate: 0.47%



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



Run 6: Statistics of TCP BBR

Start at: 2018-05-25 11:02:37

End at: 2018-05-25 11:03:07

Local clock offset: 0.009 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2018-05-25 12:54:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.30 Mbit/s

95th percentile per-packet one-way delay: 69.638 ms

Loss rate: 0.49%

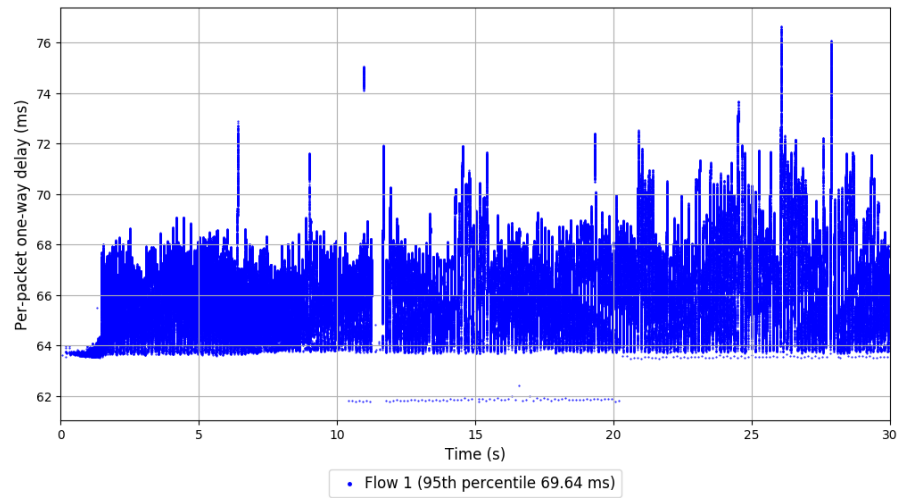
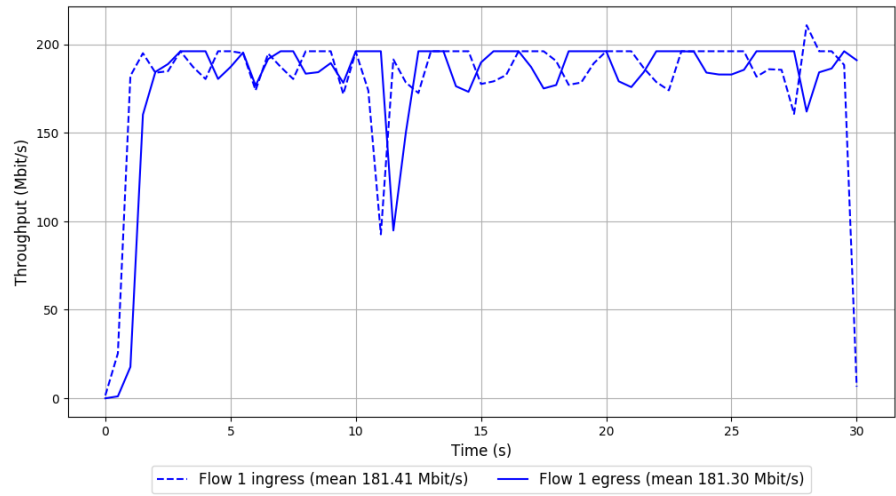
-- Flow 1:

Average throughput: 181.30 Mbit/s

95th percentile per-packet one-way delay: 69.638 ms

Loss rate: 0.49%

# Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-25 11:23:22

End at: 2018-05-25 11:23:52

Local clock offset: 0.013 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2018-05-25 12:54:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 179.10 Mbit/s

95th percentile per-packet one-way delay: 67.343 ms

Loss rate: 0.42%

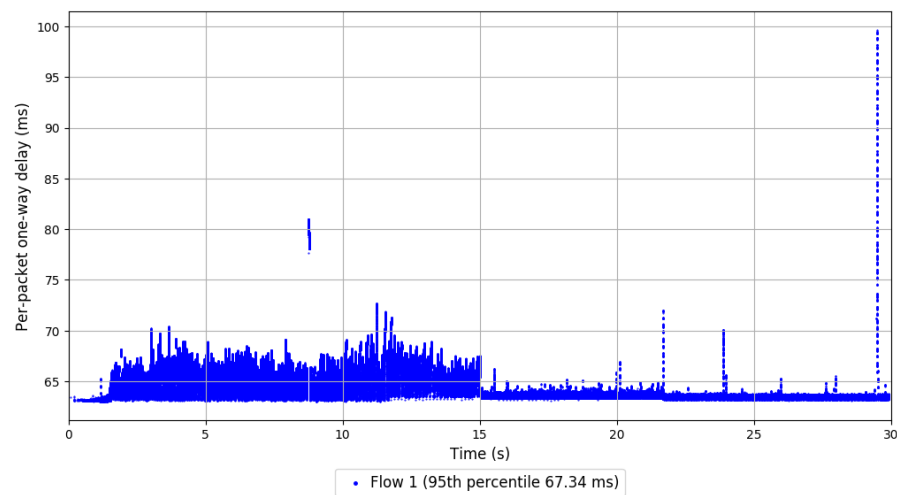
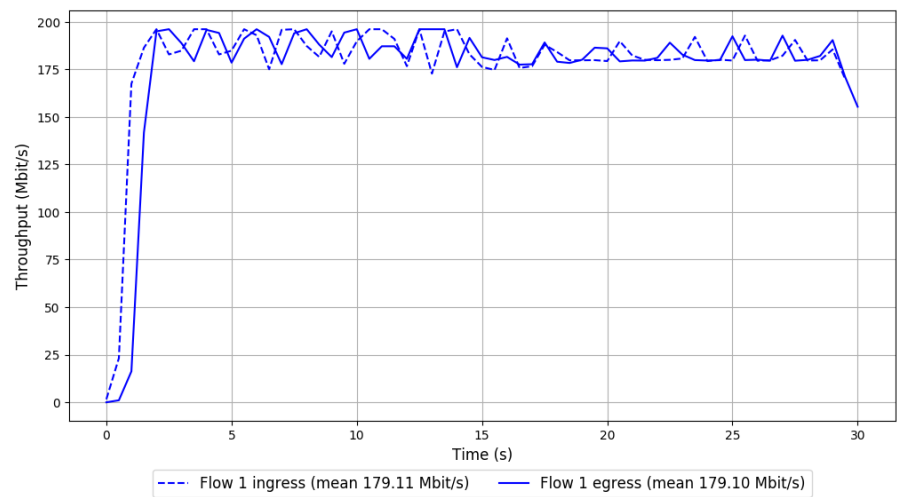
-- Flow 1:

Average throughput: 179.10 Mbit/s

95th percentile per-packet one-way delay: 67.343 ms

Loss rate: 0.42%

Run 7: Report of TCP BBR — Data Link

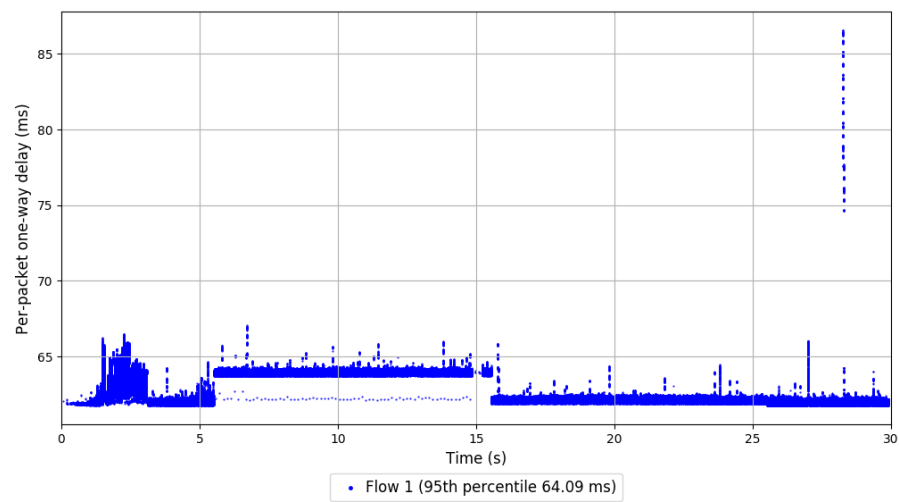
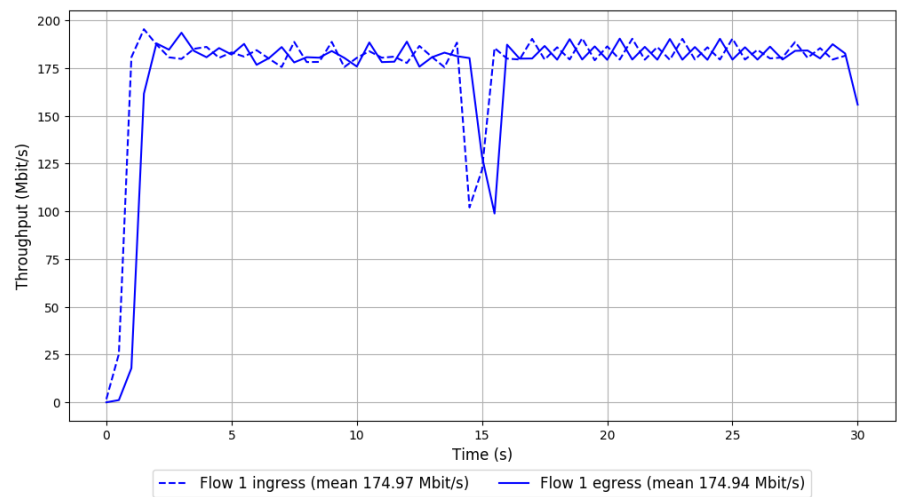


Run 8: Statistics of TCP BBR

Start at: 2018-05-25 11:43:48  
End at: 2018-05-25 11:44:18  
Local clock offset: -0.001 ms  
Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2018-05-25 12:54:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 174.94 Mbit/s  
95th percentile per-packet one-way delay: 64.091 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 174.94 Mbit/s  
95th percentile per-packet one-way delay: 64.091 ms  
Loss rate: 0.43%

Run 8: Report of TCP BBR — Data Link



Run 9: Statistics of TCP BBR

Start at: 2018-05-25 12:04:24

End at: 2018-05-25 12:04:54

Local clock offset: -0.006 ms

Remote clock offset: 0.17 ms

# Below is generated by plot.py at 2018-05-25 12:57:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 177.62 Mbit/s

95th percentile per-packet one-way delay: 68.507 ms

Loss rate: 0.25%

-- Flow 1:

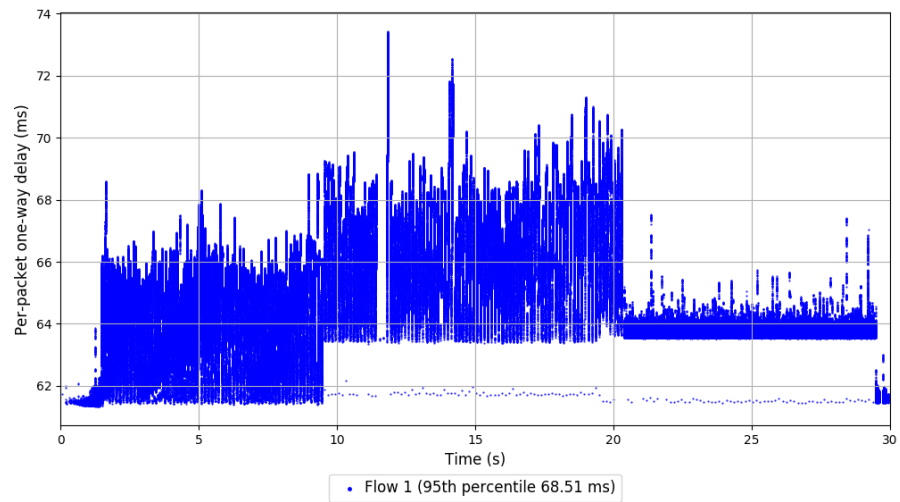
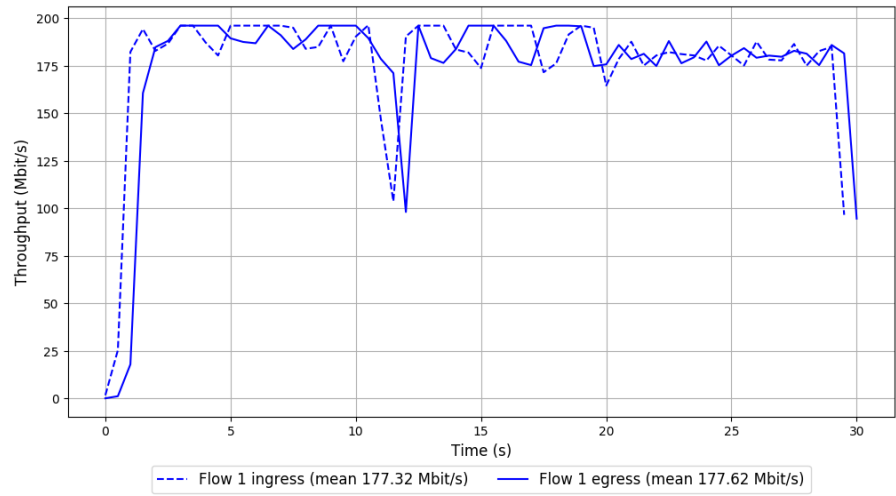
Average throughput: 177.62 Mbit/s

95th percentile per-packet one-way delay: 68.507 ms

Loss rate: 0.25%



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



Run 10: Statistics of TCP BBR

Start at: 2018-05-25 12:24:46

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

Local clock offset: -0.07 ms

Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-05-25 12:57:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 169.59 Mbit/s

95th percentile per-packet one-way delay: 66.490 ms

Loss rate: 0.45%

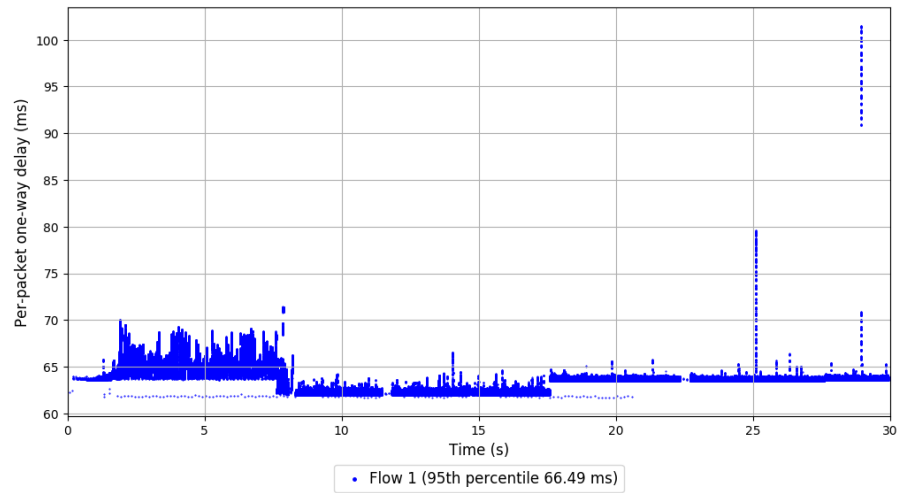
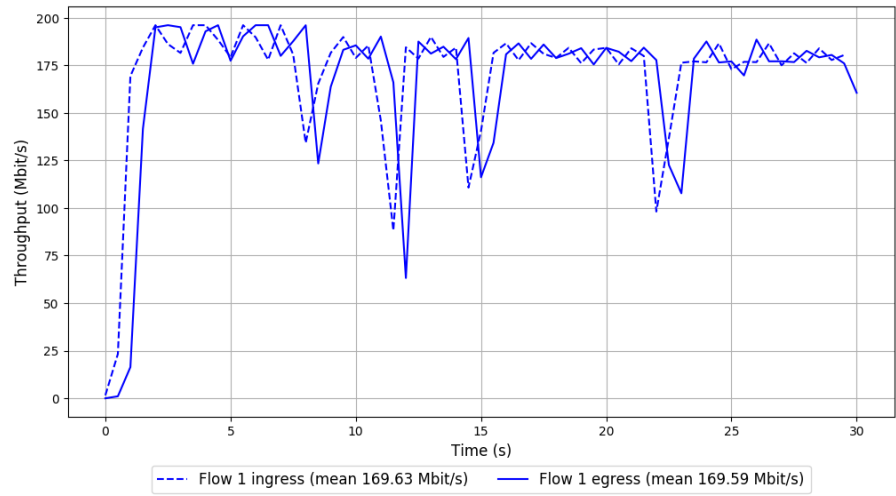
-- Flow 1:

Average throughput: 169.59 Mbit/s

95th percentile per-packet one-way delay: 66.490 ms

Loss rate: 0.45%

# Run 10: Report of TCP BBR — Data Link

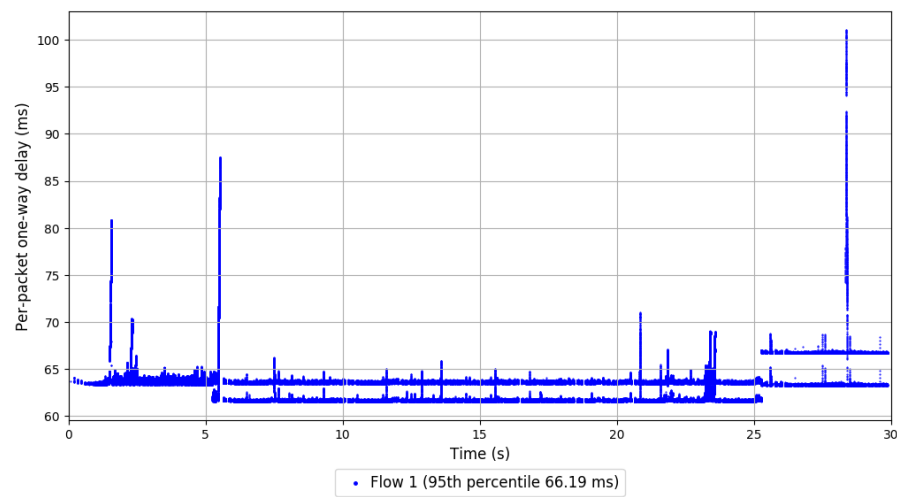
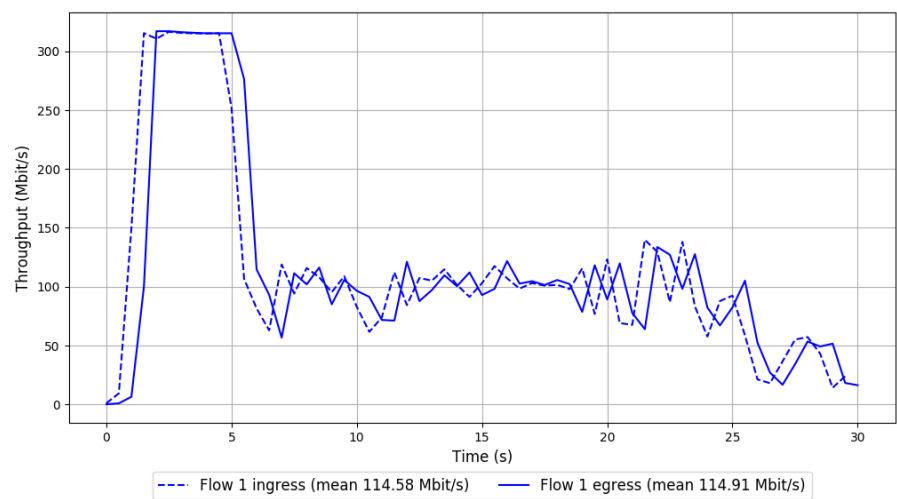


Run 1: Statistics of Copa

Start at: 2018-05-25 09:27:29  
End at: 2018-05-25 09:27:59  
Local clock offset: -0.052 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2018-05-25 12:57:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 114.91 Mbit/s  
95th percentile per-packet one-way delay: 66.194 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 114.91 Mbit/s  
95th percentile per-packet one-way delay: 66.194 ms  
Loss rate: 0.13%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2018-05-25 09:48:00

End at: 2018-05-25 09:48:30

Local clock offset: -0.059 ms

Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2018-05-25 12:57:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 115.86 Mbit/s

95th percentile per-packet one-way delay: 65.397 ms

Loss rate: 0.39%

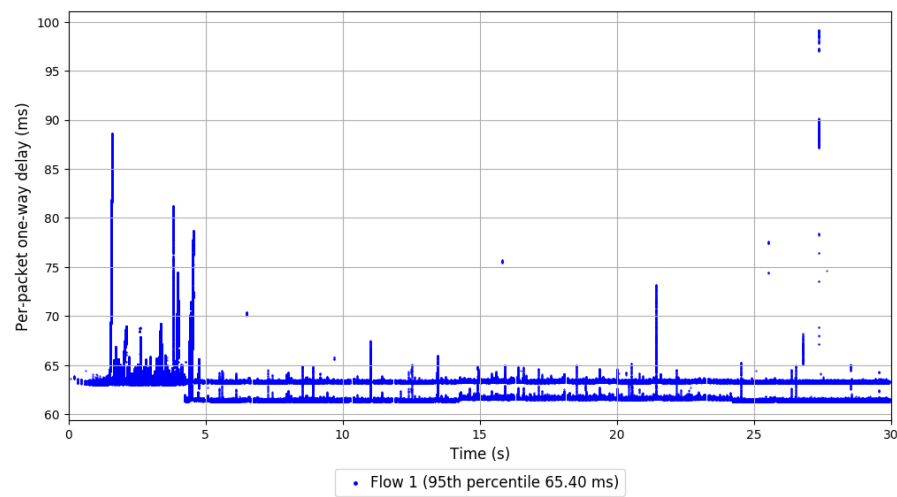
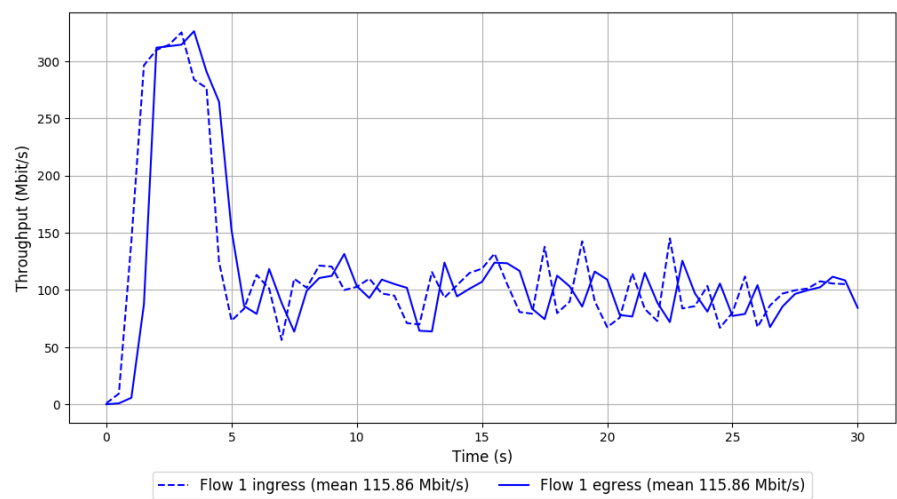
-- Flow 1:

Average throughput: 115.86 Mbit/s

95th percentile per-packet one-way delay: 65.397 ms

Loss rate: 0.39%

Run 2: Report of Copa — Data Link



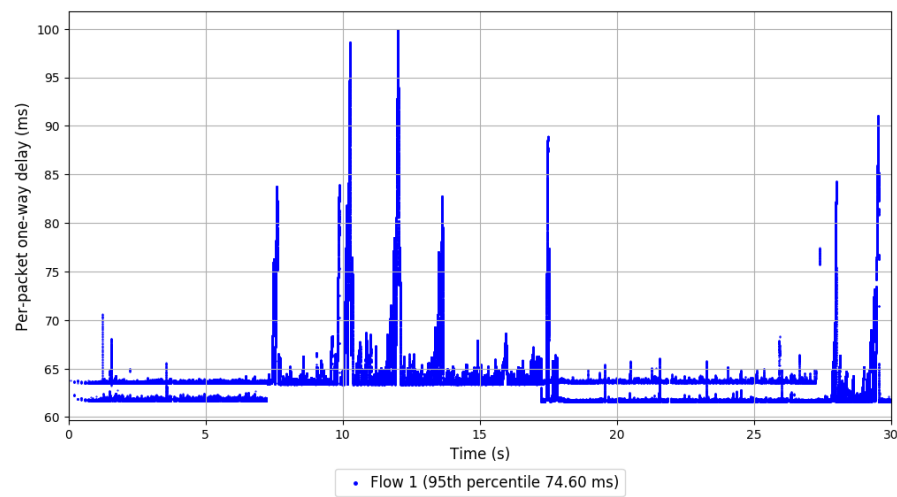
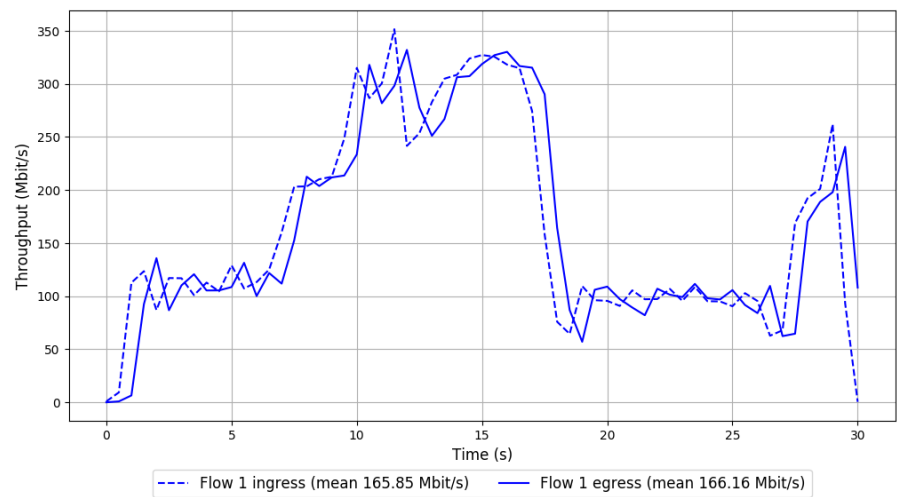
Run 3: Statistics of Copa

Start at: 2018-05-25 10:08:27  
End at: 2018-05-25 10:08:57  
Local clock offset: -0.03 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2018-05-25 12:59:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 166.16 Mbit/s  
95th percentile per-packet one-way delay: 74.602 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 166.16 Mbit/s  
95th percentile per-packet one-way delay: 74.602 ms  
Loss rate: 0.23%



Run 3: Report of Copa — Data Link



Run 4: Statistics of Copa

Start at: 2018-05-25 10:29:01

End at: 2018-05-25 10:29:31

Local clock offset: 0.028 ms

Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2018-05-25 12:59:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 69.847 ms

Loss rate: 0.31%

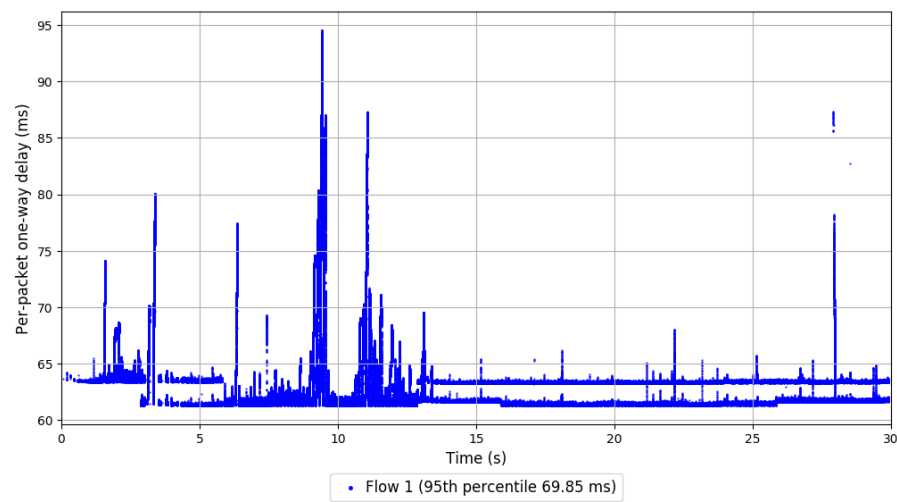
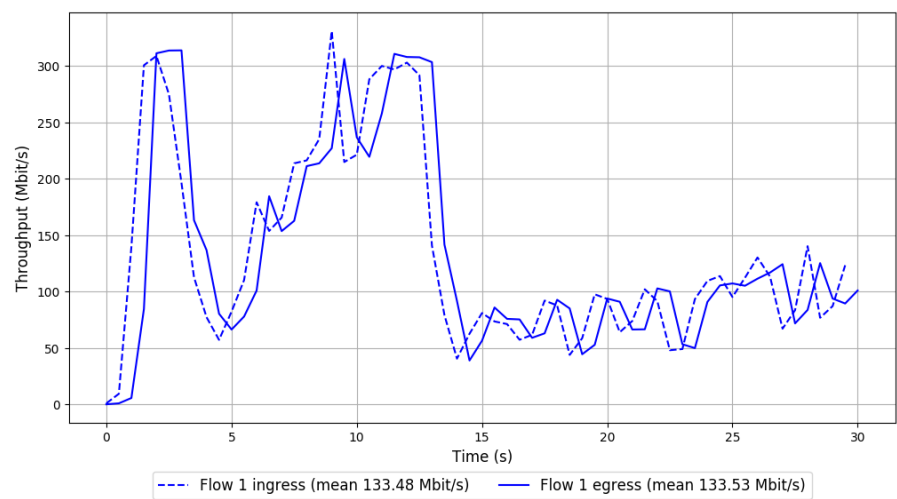
-- Flow 1:

Average throughput: 133.53 Mbit/s

95th percentile per-packet one-way delay: 69.847 ms

Loss rate: 0.31%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-25 10:49:33

End at: 2018-05-25 10:50:03

Local clock offset: 0.013 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-05-25 12:59:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 0.43%

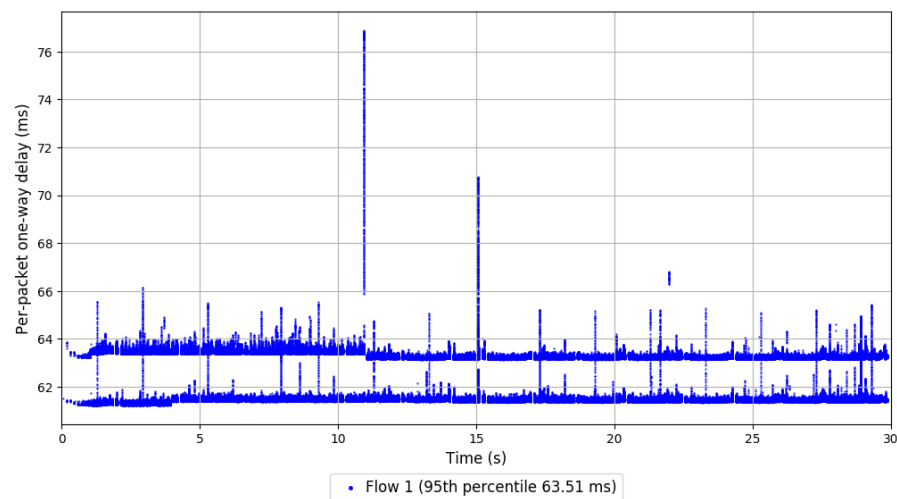
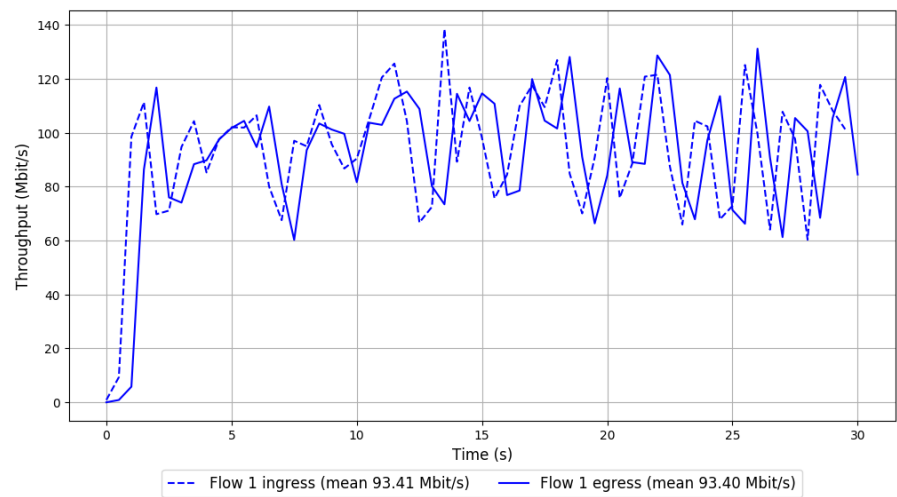
-- Flow 1:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 63.511 ms

Loss rate: 0.43%

Run 5: Report of Copa — Data Link

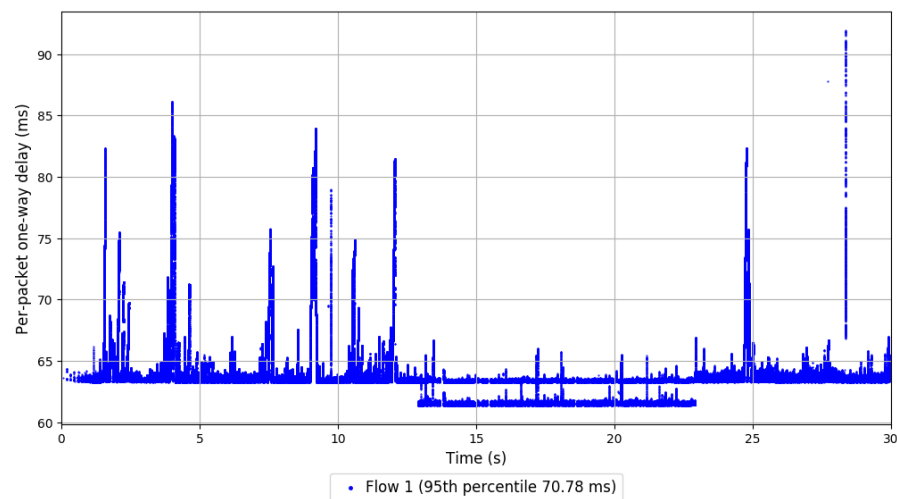
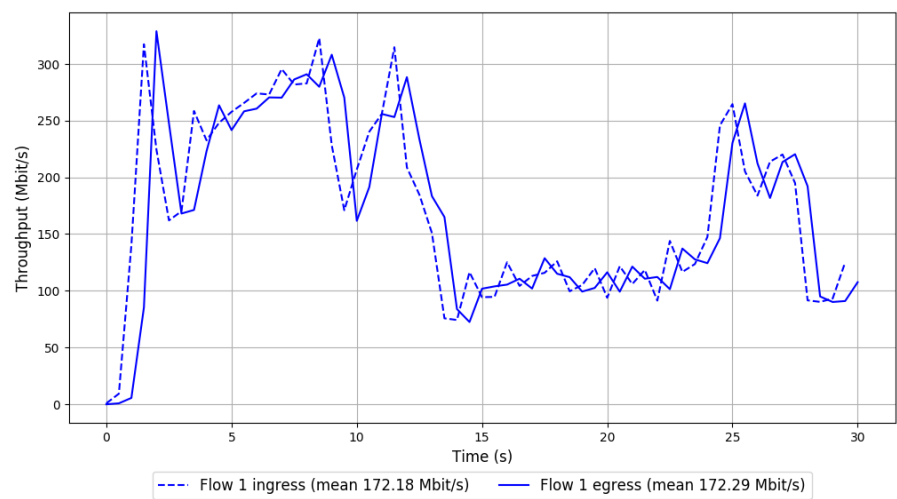


Run 6: Statistics of Copa

Start at: 2018-05-25 11:09:51  
End at: 2018-05-25 11:10:21  
Local clock offset: 0.017 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-05-25 12:59:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 172.29 Mbit/s  
95th percentile per-packet one-way delay: 70.782 ms  
Loss rate: 0.35%  
-- Flow 1:  
Average throughput: 172.29 Mbit/s  
95th percentile per-packet one-way delay: 70.782 ms  
Loss rate: 0.35%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-05-25 11:30:42

End at: 2018-05-25 11:31:12

Local clock offset: 0.013 ms

Remote clock offset: 0.06 ms

# Below is generated by plot.py at 2018-05-25 13:04:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 199.48 Mbit/s

95th percentile per-packet one-way delay: 68.783 ms

Loss rate: 0.24%

-- Flow 1:

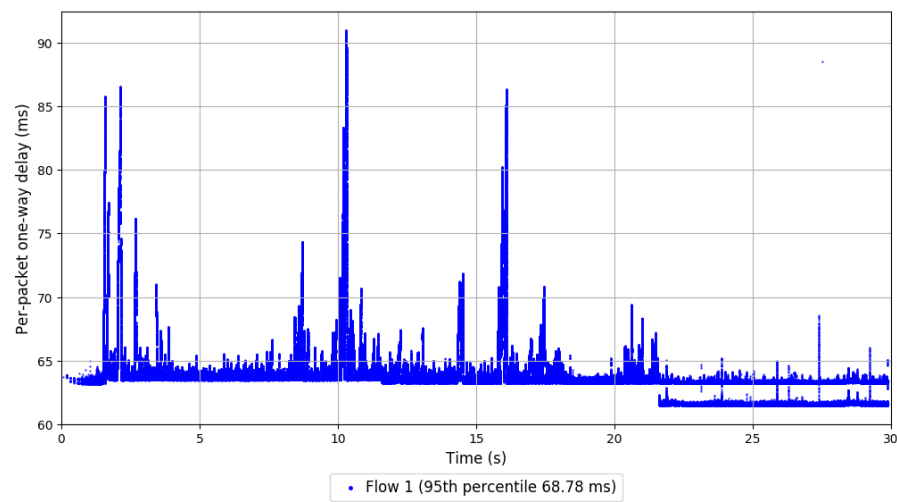
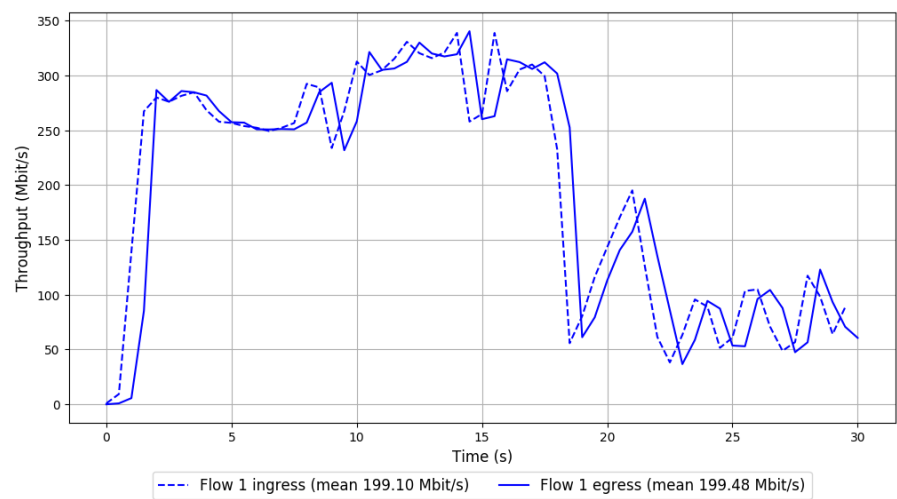
Average throughput: 199.48 Mbit/s

95th percentile per-packet one-way delay: 68.783 ms

Loss rate: 0.24%



Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-25 11:51:08

End at: 2018-05-25 11:51:38

Local clock offset: -0.023 ms

Remote clock offset: 0.358 ms

# Below is generated by plot.py at 2018-05-25 13:04:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 206.85 Mbit/s

95th percentile per-packet one-way delay: 79.970 ms

Loss rate: 0.26%

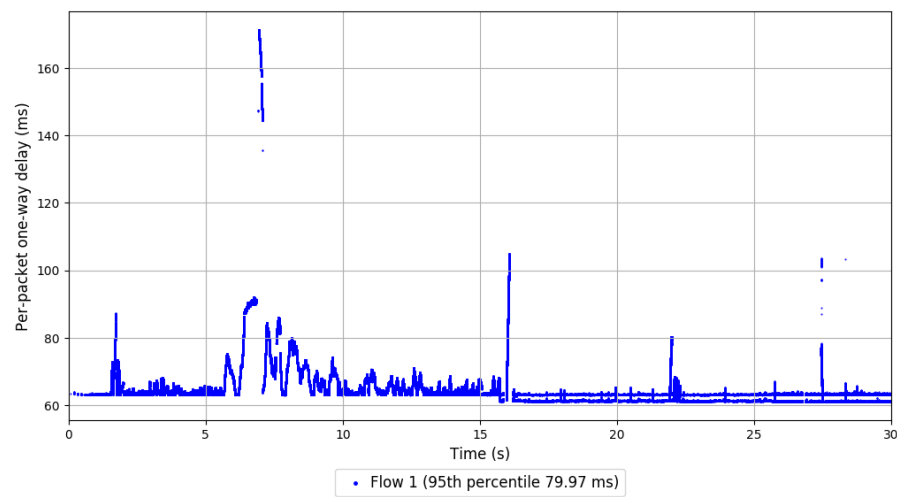
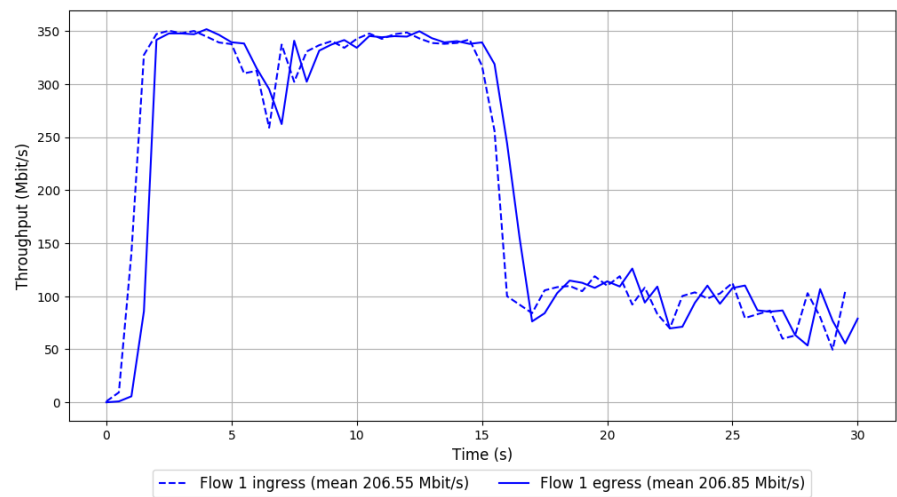
-- Flow 1:

Average throughput: 206.85 Mbit/s

95th percentile per-packet one-way delay: 79.970 ms

Loss rate: 0.26%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-25 12:11:42

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

Local clock offset: -0.028 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2018-05-25 13:04:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 70.151 ms

Loss rate: 0.35%

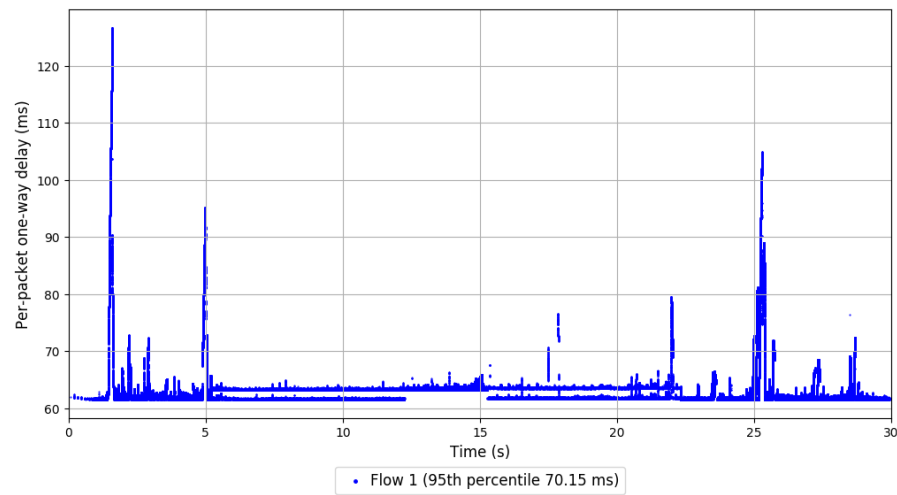
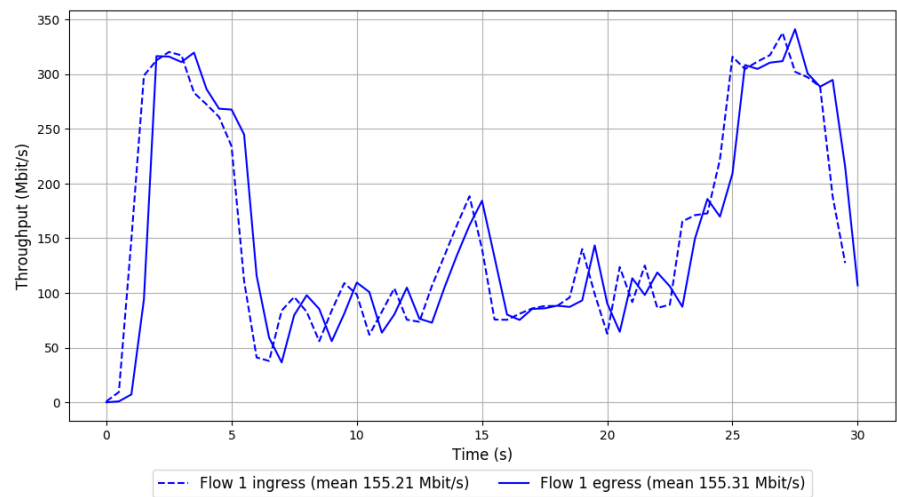
-- Flow 1:

Average throughput: 155.31 Mbit/s

95th percentile per-packet one-way delay: 70.151 ms

Loss rate: 0.35%

Run 9: Report of Copa — Data Link

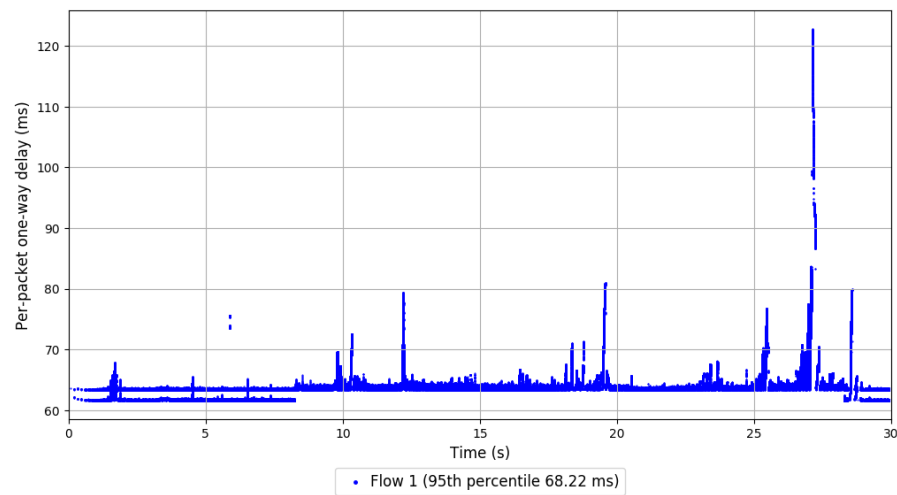
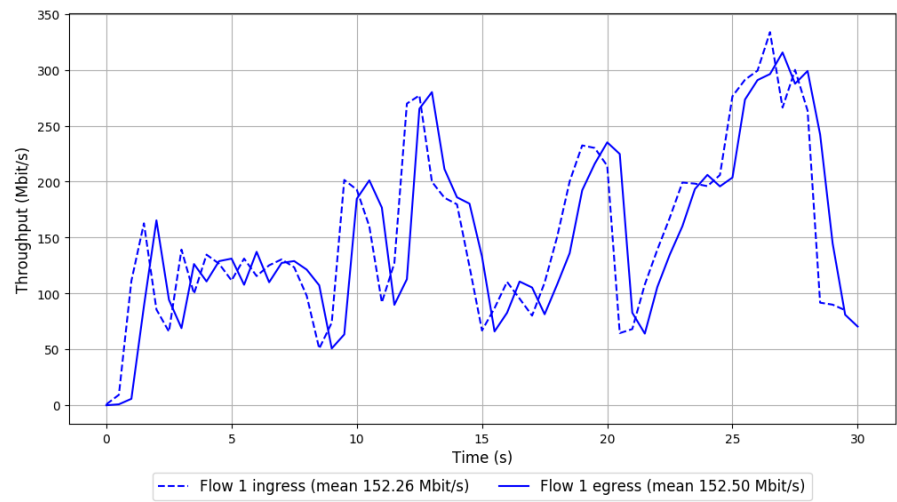


Run 10: Statistics of Copa

Start at: 2018-05-25 12:32:06  
End at: 2018-05-25 12:32:36  
Local clock offset: -0.108 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2018-05-25 13:04:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 152.50 Mbit/s  
95th percentile per-packet one-way delay: 68.215 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 152.50 Mbit/s  
95th percentile per-packet one-way delay: 68.215 ms  
Loss rate: 0.27%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-25 09:22:31

End at: 2018-05-25 09:23:01

Local clock offset: -0.063 ms

Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2018-05-25 13:04:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 153.71 Mbit/s

95th percentile per-packet one-way delay: 71.354 ms

Loss rate: 0.34%

-- Flow 1:

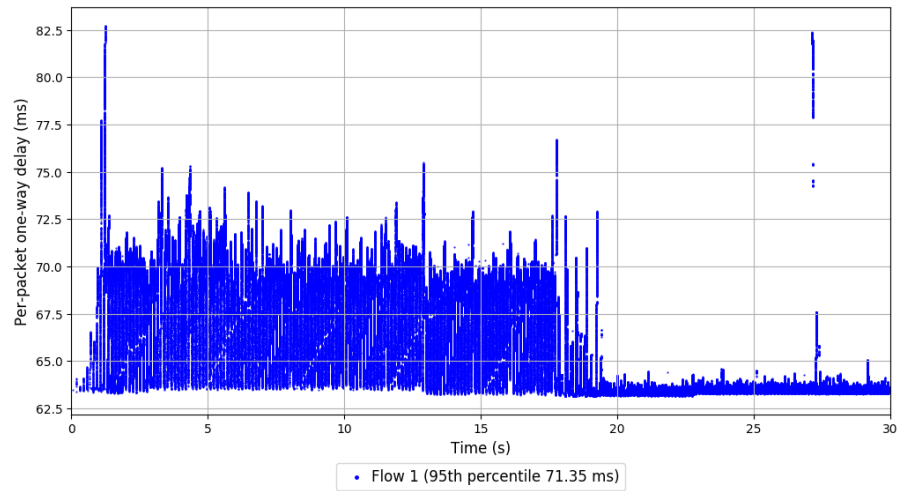
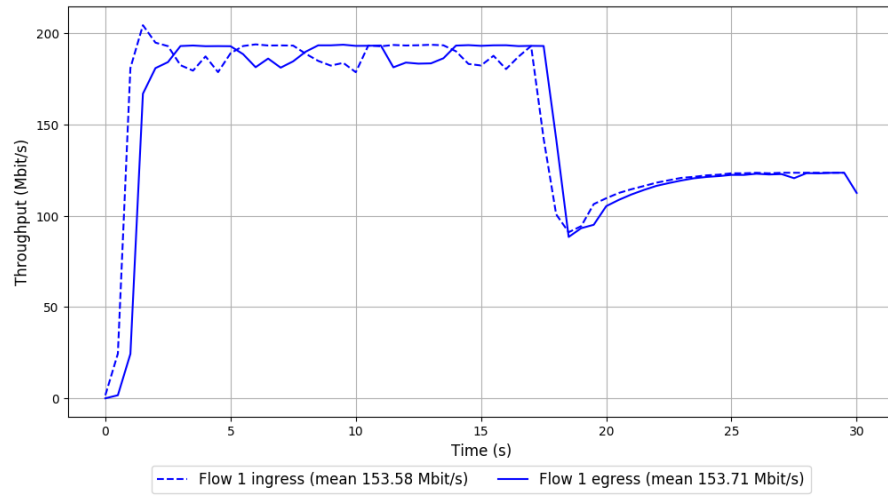
Average throughput: 153.71 Mbit/s

95th percentile per-packet one-way delay: 71.354 ms

Loss rate: 0.34%



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



Run 2: Statistics of TCP Cubic

Start at: 2018-05-25 09:42:59

End at: 2018-05-25 09:43:29

Local clock offset: -0.088 ms

Remote clock offset: 0.414 ms

# Below is generated by plot.py at 2018-05-25 13:04:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.26 Mbit/s

95th percentile per-packet one-way delay: 72.006 ms

Loss rate: 0.44%

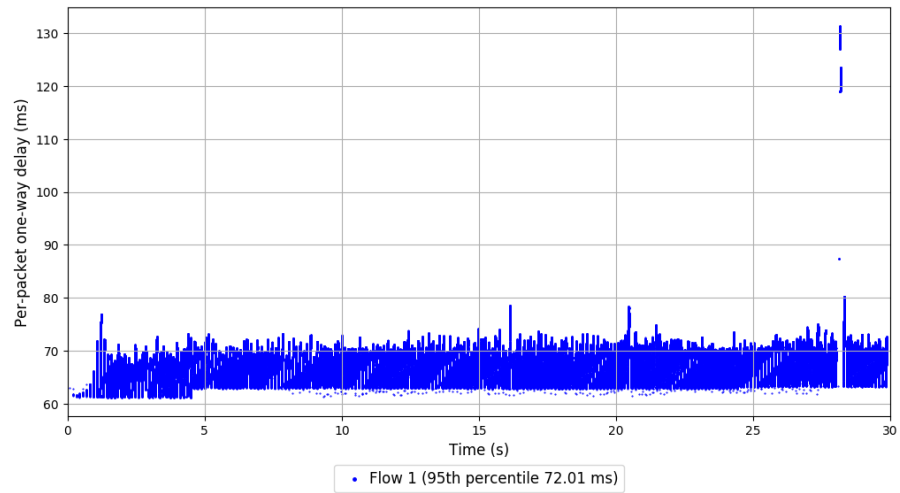
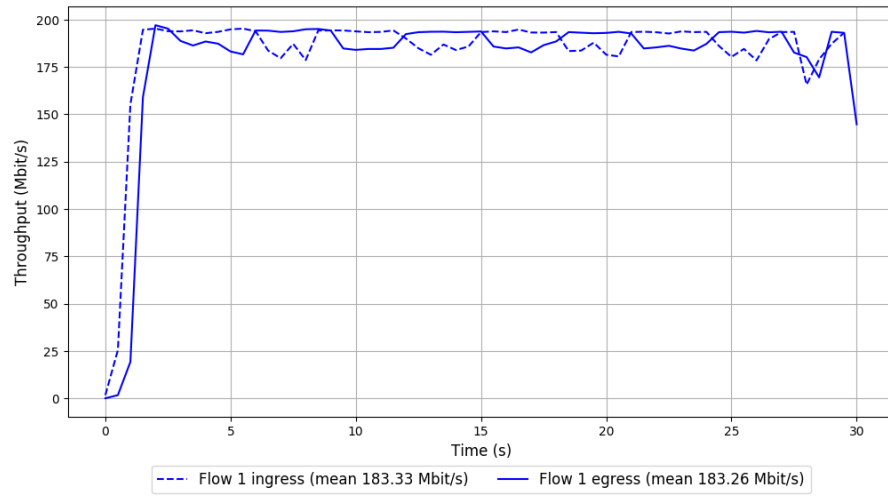
-- Flow 1:

Average throughput: 183.26 Mbit/s

95th percentile per-packet one-way delay: 72.006 ms

Loss rate: 0.44%

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

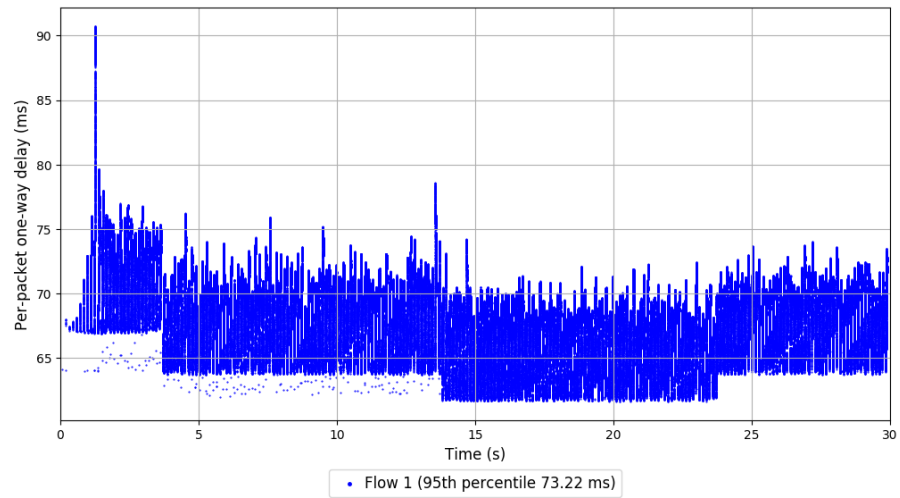
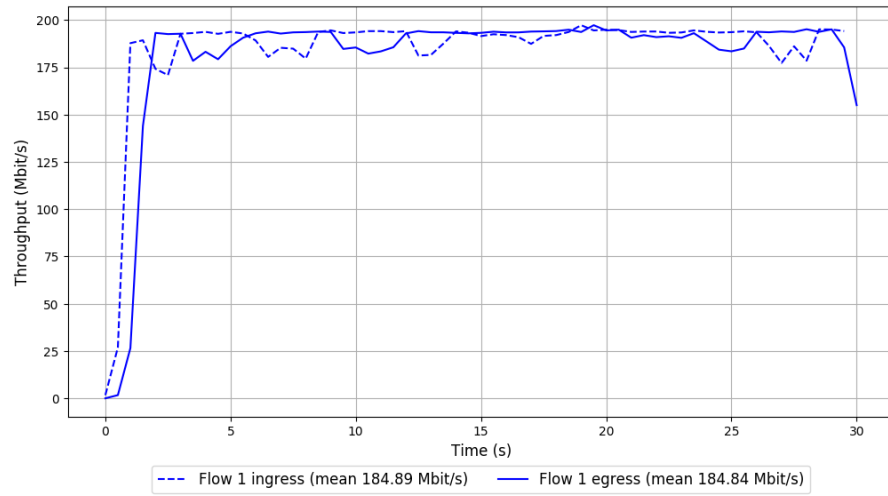


Run 3: Statistics of TCP Cubic

Start at: 2018-05-25 10:03:30  
End at: 2018-05-25 10:04:00  
Local clock offset: -0.008 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-05-25 13:04:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 184.84 Mbit/s  
95th percentile per-packet one-way delay: 73.221 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 184.84 Mbit/s  
95th percentile per-packet one-way delay: 73.221 ms  
Loss rate: 0.44%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-05-25 10:24:07

End at: 2018-05-25 10:24:37

Local clock offset: -0.007 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-05-25 13:04:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 142.41 Mbit/s

95th percentile per-packet one-way delay: 69.393 ms

Loss rate: 0.52%

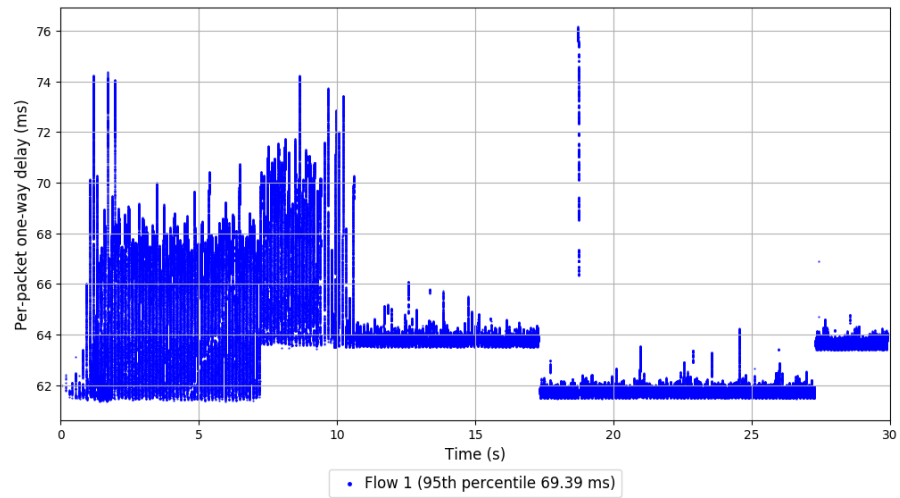
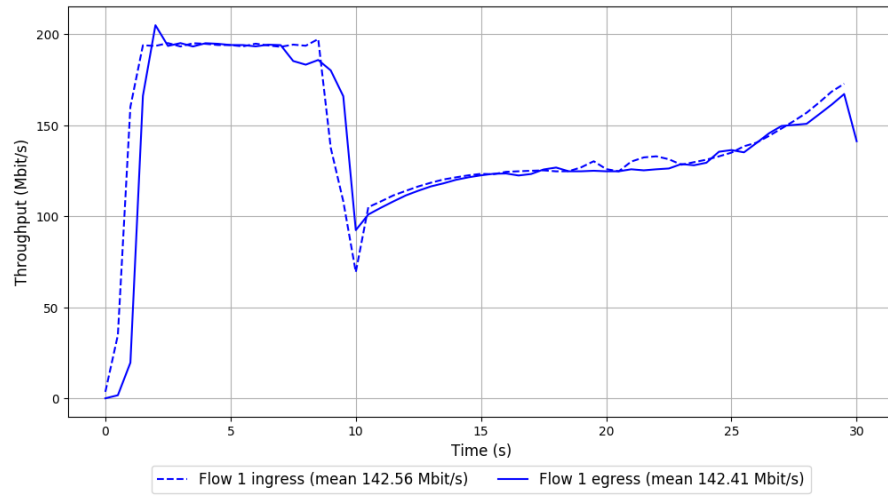
-- Flow 1:

Average throughput: 142.41 Mbit/s

95th percentile per-packet one-way delay: 69.393 ms

Loss rate: 0.52%

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



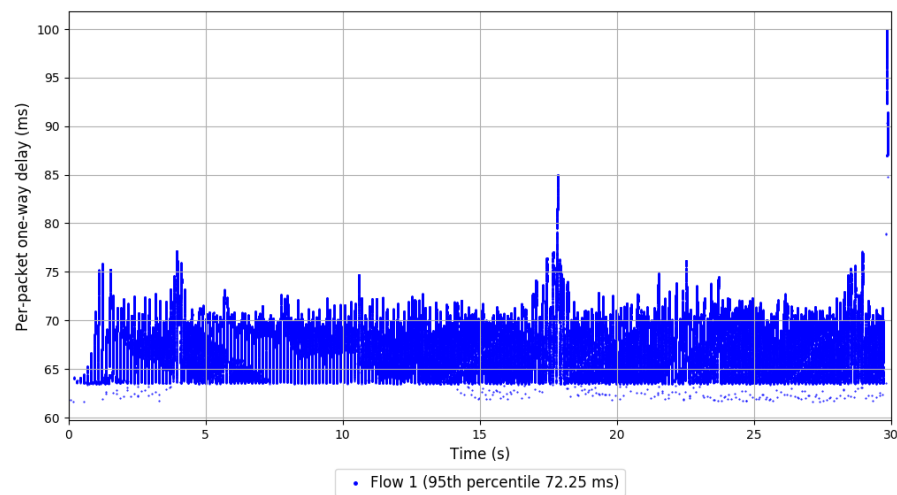
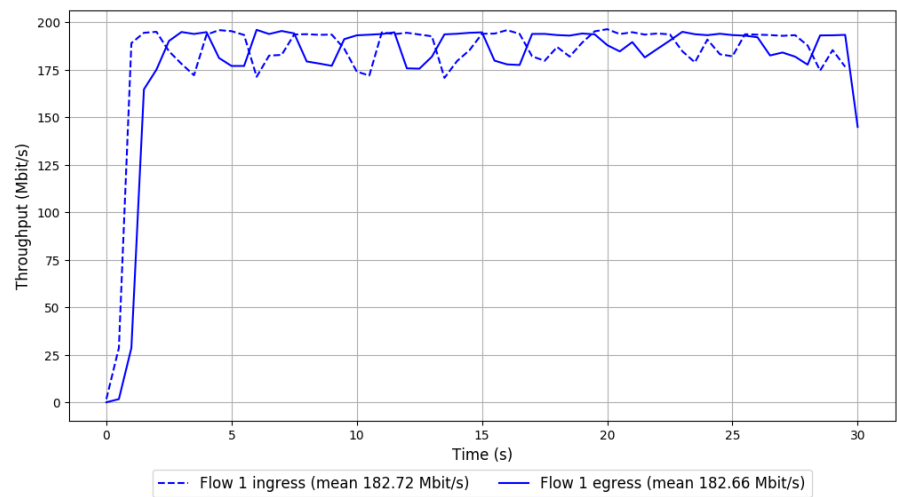
Run 5: Statistics of TCP Cubic

Start at: 2018-05-25 10:44:33  
End at: 2018-05-25 10:45:03  
Local clock offset: -0.009 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2018-05-25 13:04:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 182.66 Mbit/s  
95th percentile per-packet one-way delay: 72.247 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 182.66 Mbit/s  
95th percentile per-packet one-way delay: 72.247 ms  
Loss rate: 0.44%



Run 5: Report of TCP Cubic — Data Link

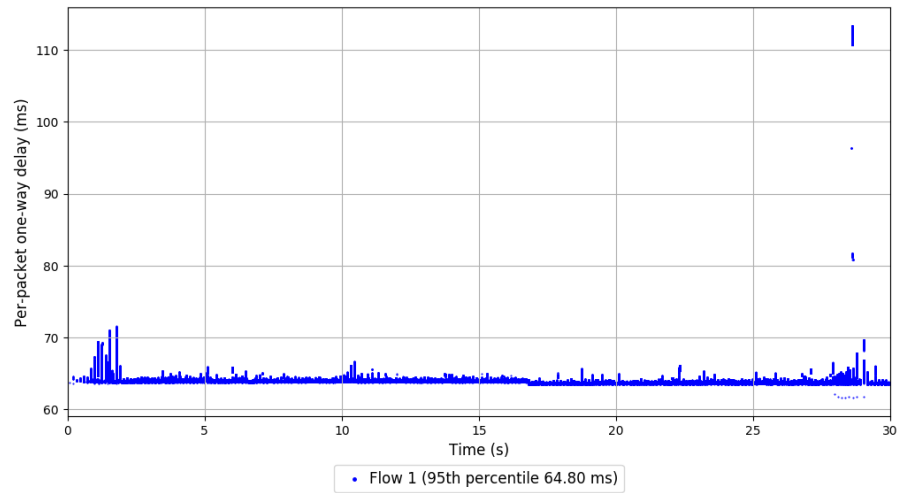
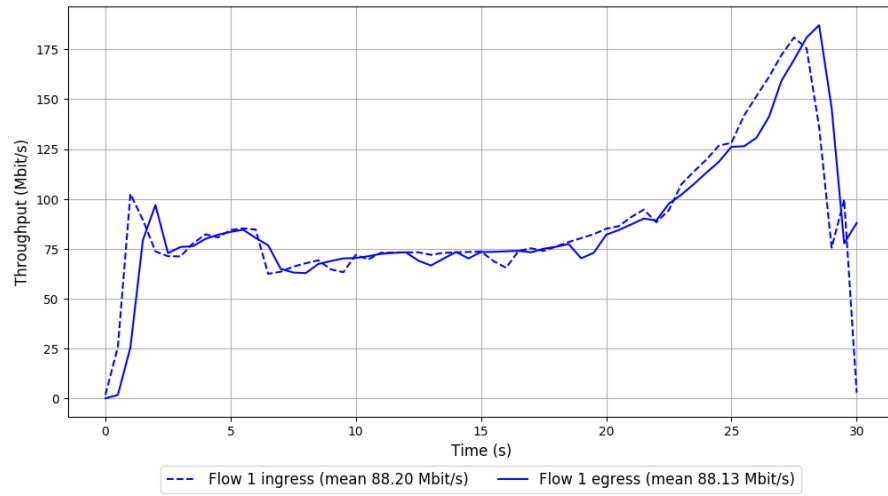


Run 6: Statistics of TCP Cubic

Start at: 2018-05-25 11:04:57  
End at: 2018-05-25 11:05:27  
Local clock offset: 0.029 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-05-25 13:04:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.13 Mbit/s  
95th percentile per-packet one-way delay: 64.798 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 88.13 Mbit/s  
95th percentile per-packet one-way delay: 64.798 ms  
Loss rate: 0.50%

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

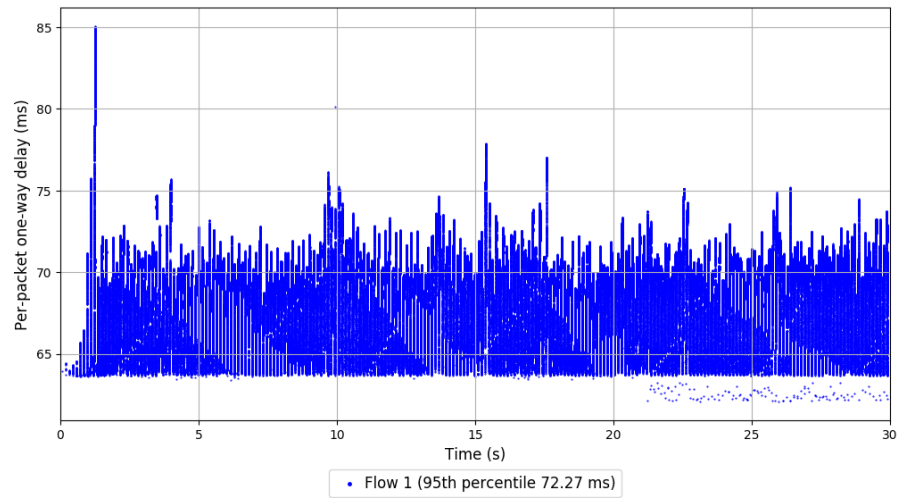
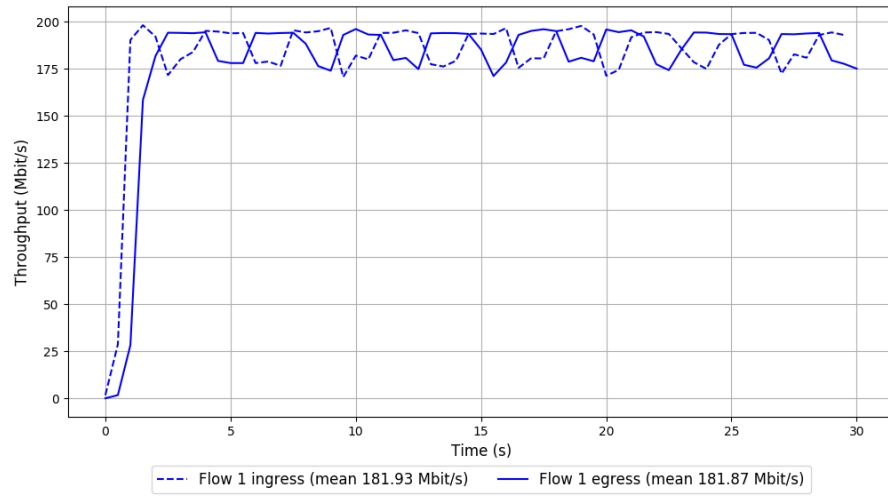


Run 7: Statistics of TCP Cubic

Start at: 2018-05-25 11:25:43  
End at: 2018-05-25 11:26:13  
Local clock offset: 0.002 ms  
Remote clock offset: -0.201 ms

# Below is generated by plot.py at 2018-05-25 13:06:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 181.87 Mbit/s  
95th percentile per-packet one-way delay: 72.269 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 181.87 Mbit/s  
95th percentile per-packet one-way delay: 72.269 ms  
Loss rate: 0.44%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-05-25 11:46:09

End at: 2018-05-25 11:46:39

Local clock offset: 0.007 ms

Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2018-05-25 13:07:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 71.361 ms

Loss rate: 0.48%

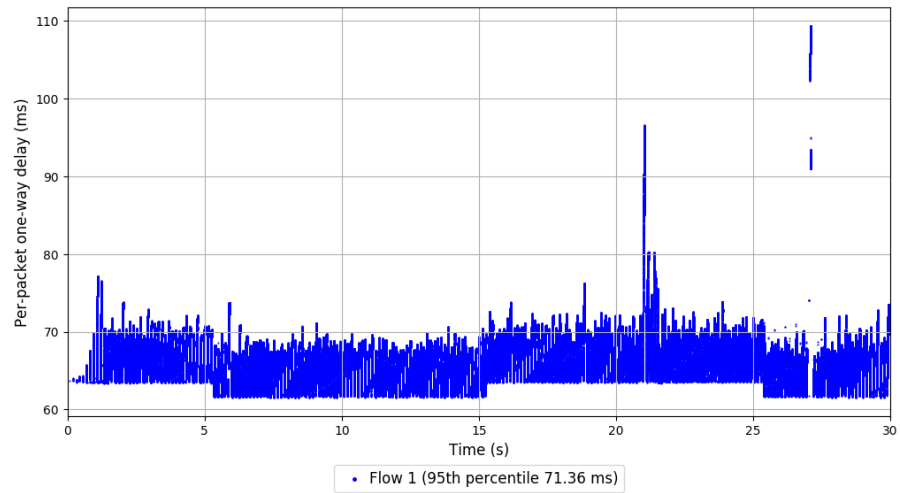
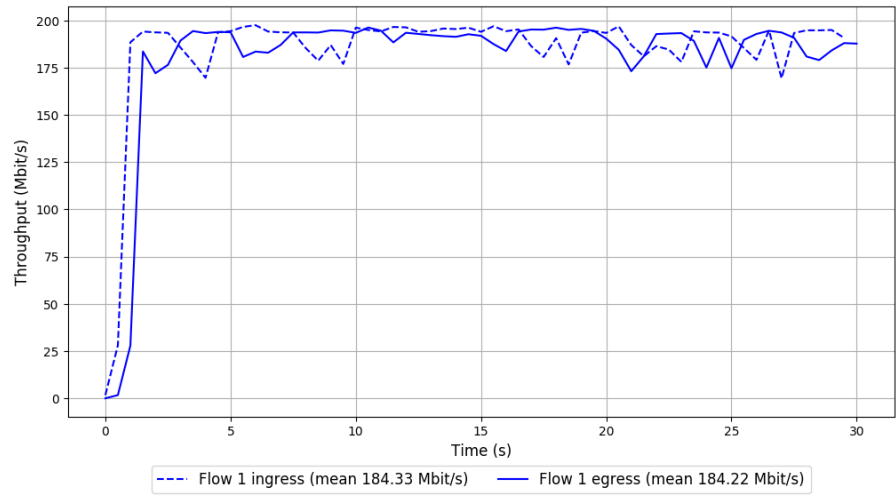
-- Flow 1:

Average throughput: 184.22 Mbit/s

95th percentile per-packet one-way delay: 71.361 ms

Loss rate: 0.48%

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



Run 9: Statistics of TCP Cubic

Start at: 2018-05-25 12:06:45

End at: 2018-05-25 12:07:15

Local clock offset: 0.002 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-05-25 13:07:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.37 Mbit/s

95th percentile per-packet one-way delay: 72.421 ms

Loss rate: 0.44%

-- Flow 1:

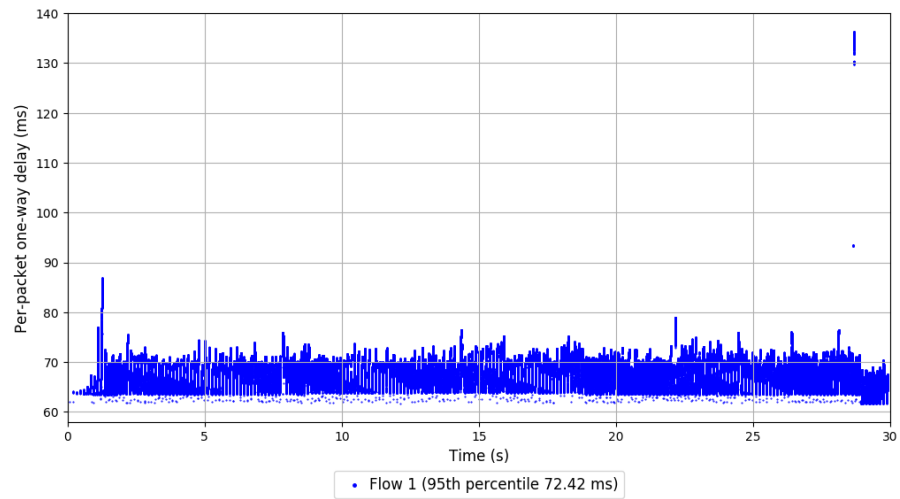
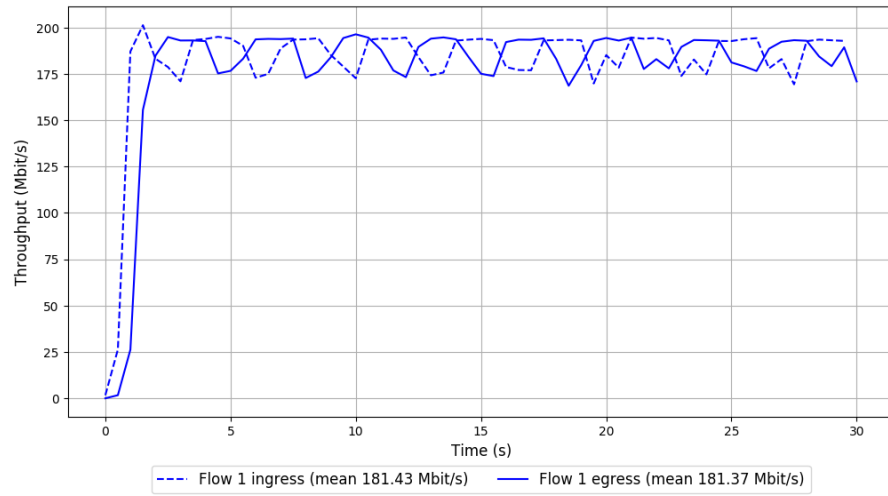
Average throughput: 181.37 Mbit/s

95th percentile per-packet one-way delay: 72.421 ms

Loss rate: 0.44%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-05-25 12:27:06

End at: 2018-05-25 12:27:36

Local clock offset: -0.108 ms

Remote clock offset: 0.021 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.76 Mbit/s

95th percentile per-packet one-way delay: 72.340 ms

Loss rate: 0.43%

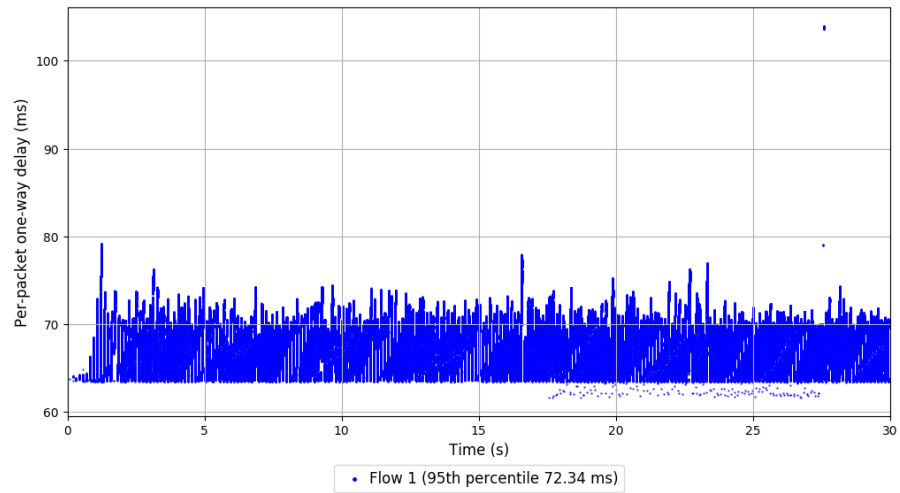
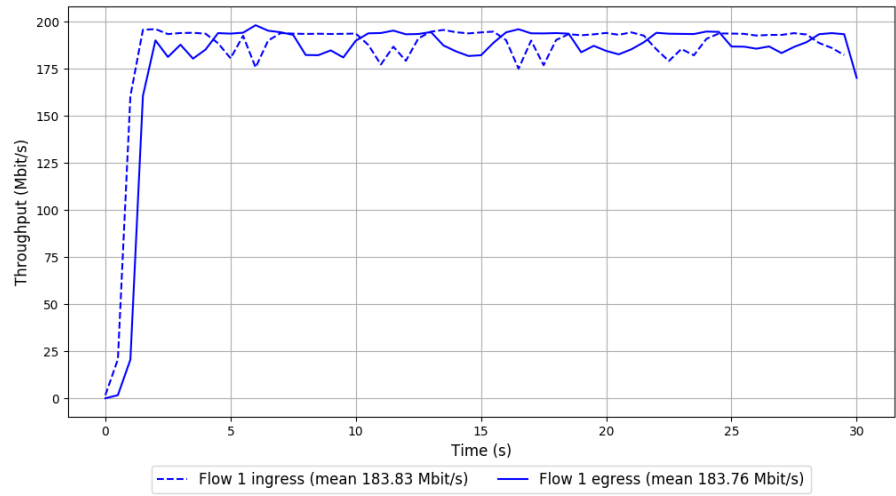
-- Flow 1:

Average throughput: 183.76 Mbit/s

95th percentile per-packet one-way delay: 72.340 ms

Loss rate: 0.43%

### Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-25 09:18:32

End at: 2018-05-25 09:19:02

Local clock offset: -0.085 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2018-05-25 13:25:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 764.83 Mbit/s

95th percentile per-packet one-way delay: 239.534 ms

Loss rate: 4.05%

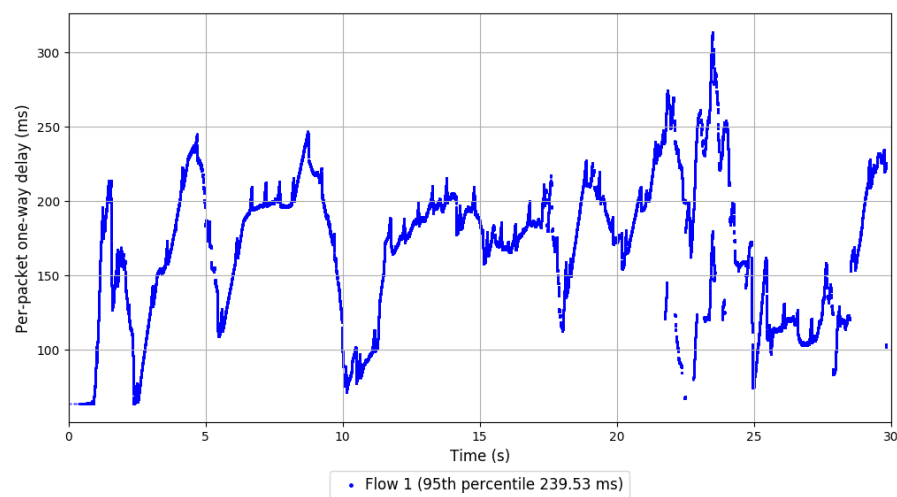
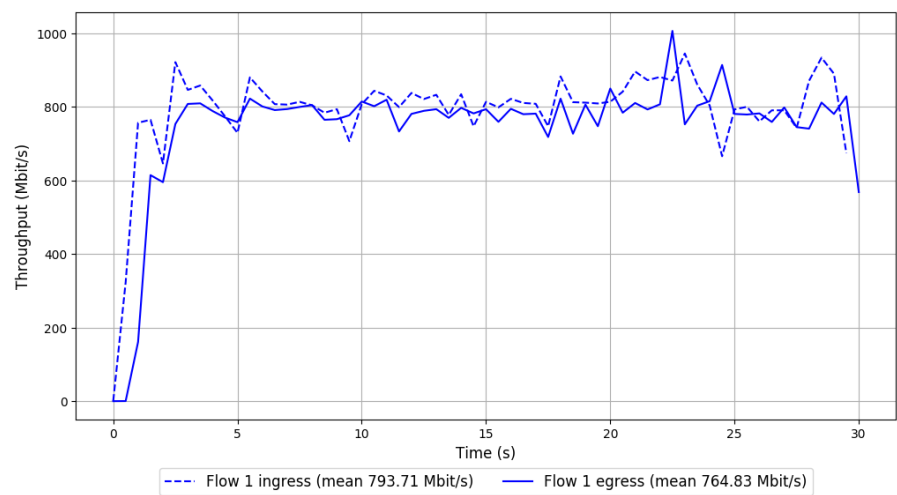
-- Flow 1:

Average throughput: 764.83 Mbit/s

95th percentile per-packet one-way delay: 239.534 ms

Loss rate: 4.05%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-05-25 09:39:00

End at: 2018-05-25 09:39:30

Local clock offset: -0.08 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2018-05-25 13:26:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 814.14 Mbit/s

95th percentile per-packet one-way delay: 143.236 ms

Loss rate: 3.12%

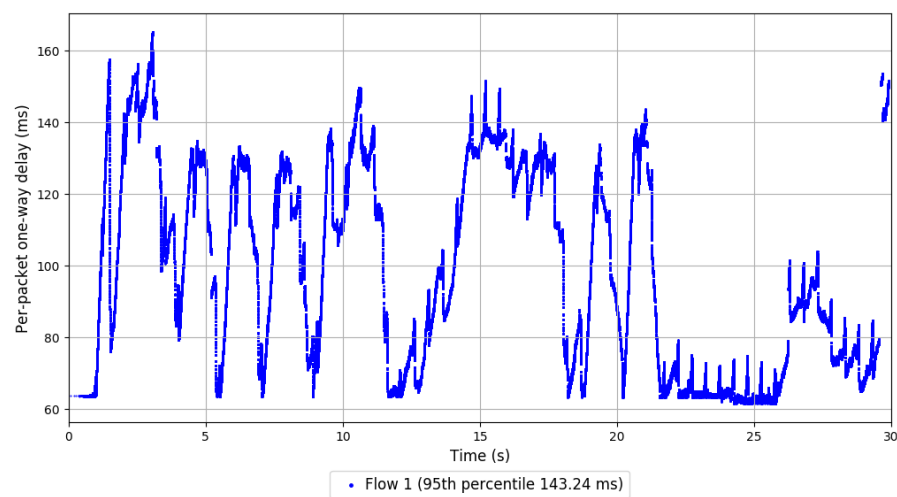
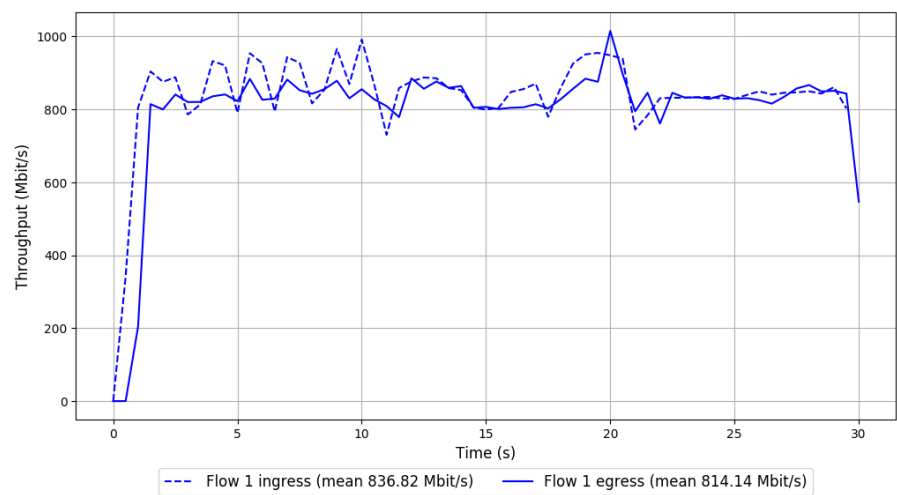
-- Flow 1:

Average throughput: 814.14 Mbit/s

95th percentile per-packet one-way delay: 143.236 ms

Loss rate: 3.12%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2018-05-25 09:59:27

End at: 2018-05-25 09:59:57

Local clock offset: -0.013 ms

Remote clock offset: 0.25 ms

# Below is generated by plot.py at 2018-05-25 13:28:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 888.98 Mbit/s

95th percentile per-packet one-way delay: 174.466 ms

Loss rate: 1.20%

-- Flow 1:

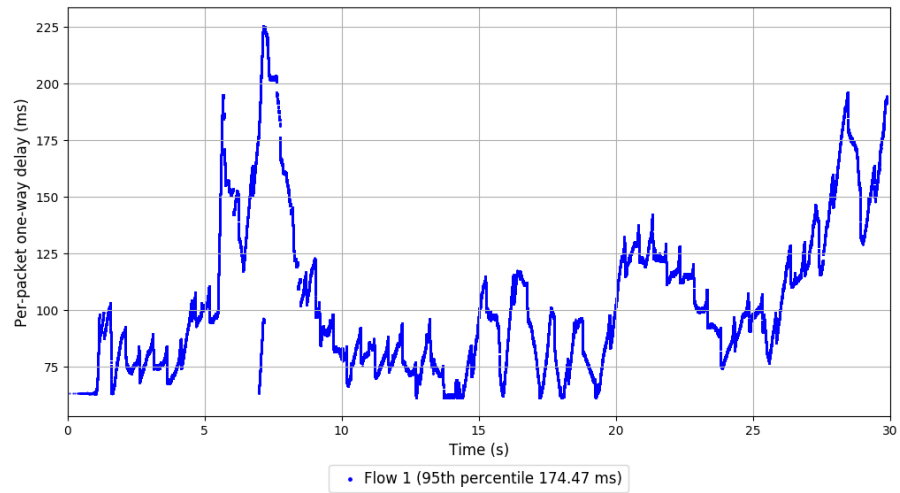
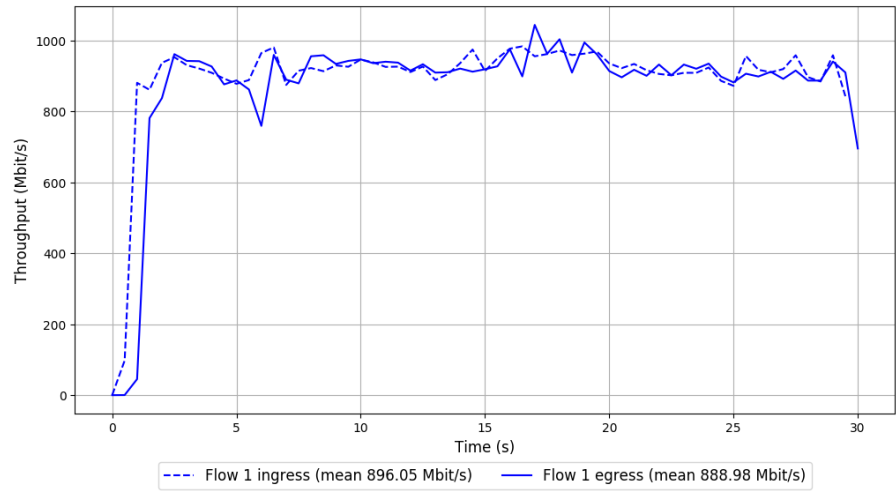
Average throughput: 888.98 Mbit/s

95th percentile per-packet one-way delay: 174.466 ms

Loss rate: 1.20%



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



Run 4: Statistics of FillP

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

End at: 2018-05-25 10:20:32

Local clock offset: -0.052 ms

Remote clock offset: 0.078 ms

# Below is generated by plot.py at 2018-05-25 13:28:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 865.58 Mbit/s

95th percentile per-packet one-way delay: 208.346 ms

Loss rate: 4.30%

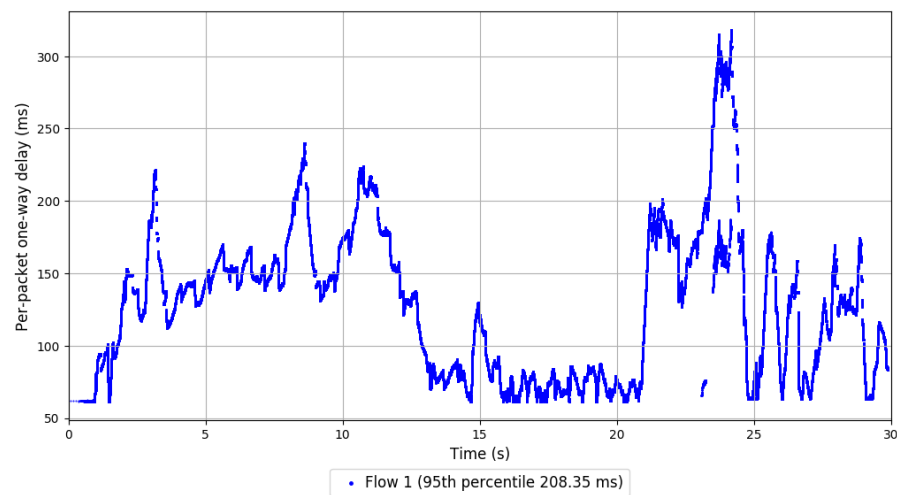
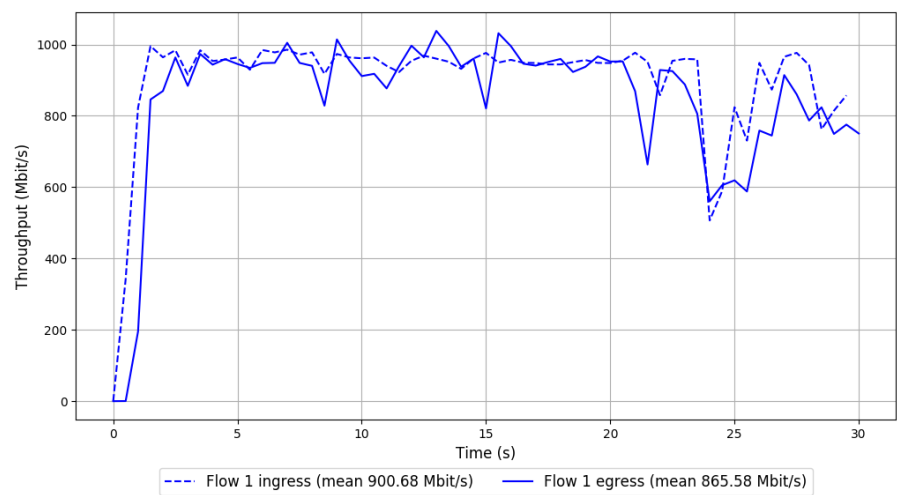
-- Flow 1:

Average throughput: 865.58 Mbit/s

95th percentile per-packet one-way delay: 208.346 ms

Loss rate: 4.30%

Run 4: Report of FillP — Data Link

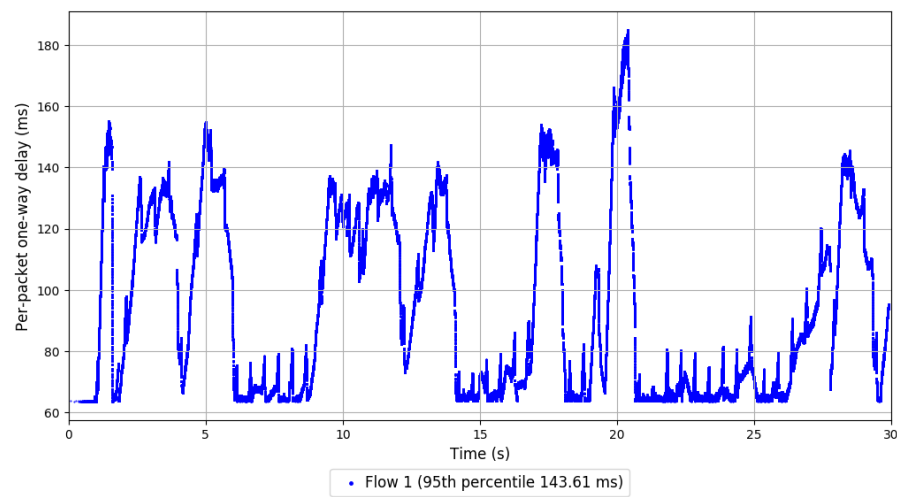
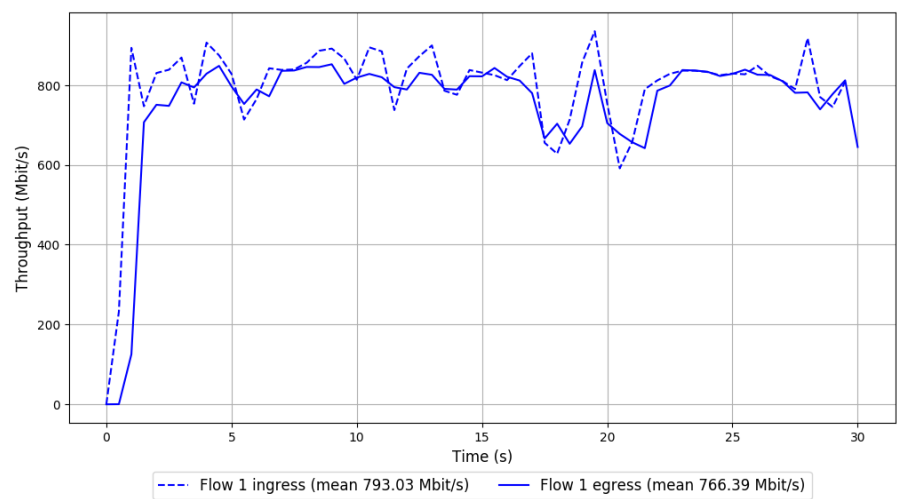


Run 5: Statistics of FillP

Start at: 2018-05-25 10:40:35  
End at: 2018-05-25 10:41:05  
Local clock offset: 0.037 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2018-05-25 13:28:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 766.39 Mbit/s  
95th percentile per-packet one-way delay: 143.610 ms  
Loss rate: 3.77%  
-- Flow 1:  
Average throughput: 766.39 Mbit/s  
95th percentile per-packet one-way delay: 143.610 ms  
Loss rate: 3.77%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-25 11:00:57

End at: 2018-05-25 11:01:27

Local clock offset: 0.044 ms

Remote clock offset: 0.161 ms

# Below is generated by plot.py at 2018-05-25 13:28:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 824.72 Mbit/s

95th percentile per-packet one-way delay: 223.922 ms

Loss rate: 2.19%

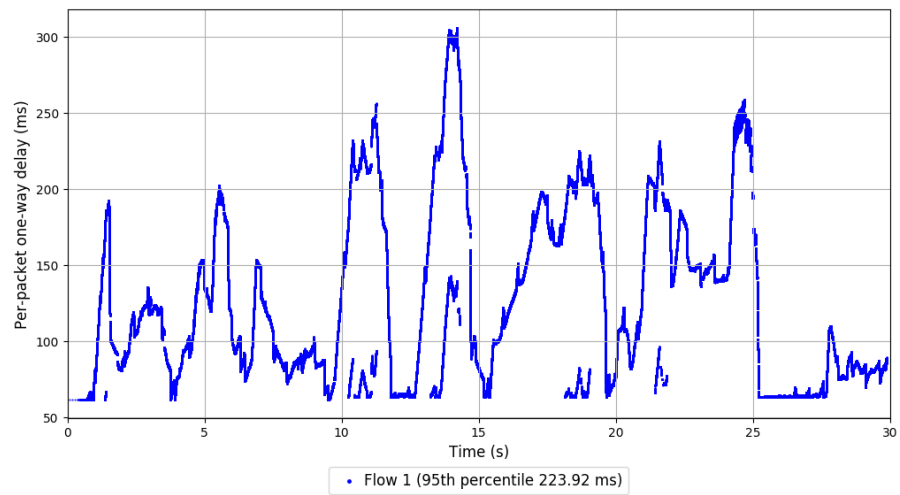
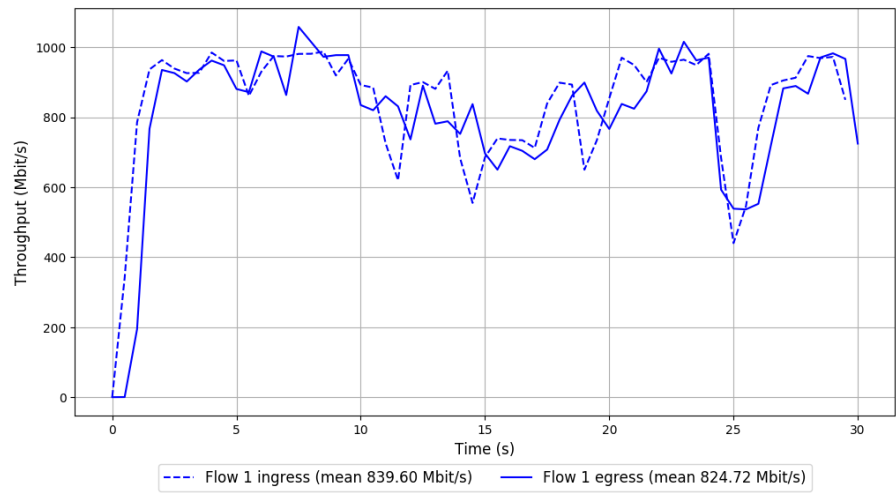
-- Flow 1:

Average throughput: 824.72 Mbit/s

95th percentile per-packet one-way delay: 223.922 ms

Loss rate: 2.19%

## Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

Start at: 2018-05-25 11:21:44

End at: 2018-05-25 11:22:14

Local clock offset: 0.036 ms

Remote clock offset: 0.315 ms

# Below is generated by plot.py at 2018-05-25 13:28:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 742.09 Mbit/s

95th percentile per-packet one-way delay: 201.515 ms

Loss rate: 6.31%

-- Flow 1:

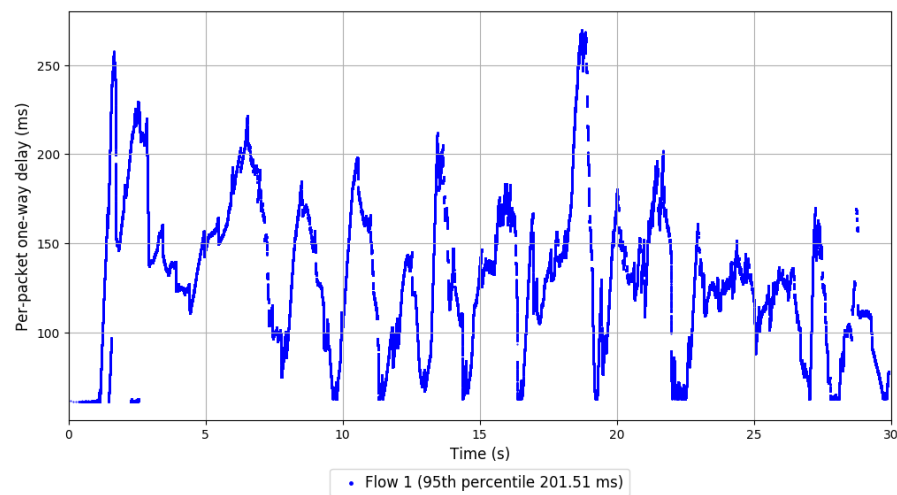
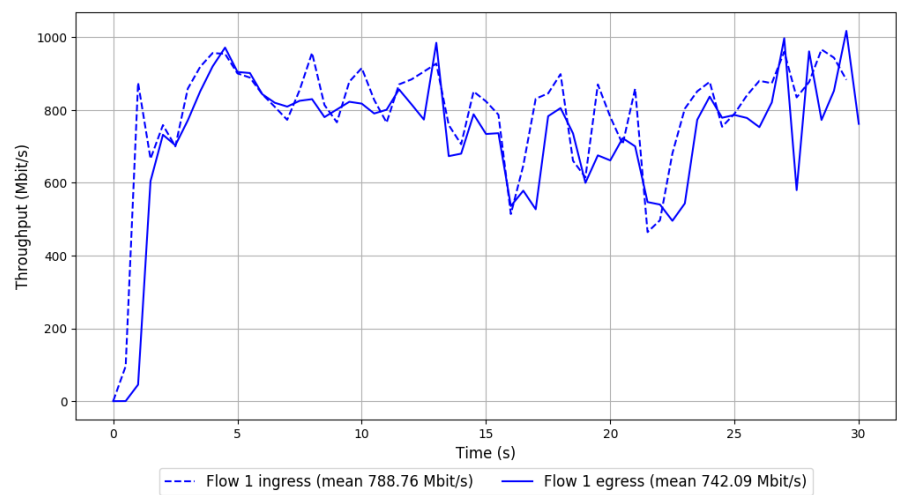
Average throughput: 742.09 Mbit/s

95th percentile per-packet one-way delay: 201.515 ms

Loss rate: 6.31%



Run 7: Report of FillP — Data Link

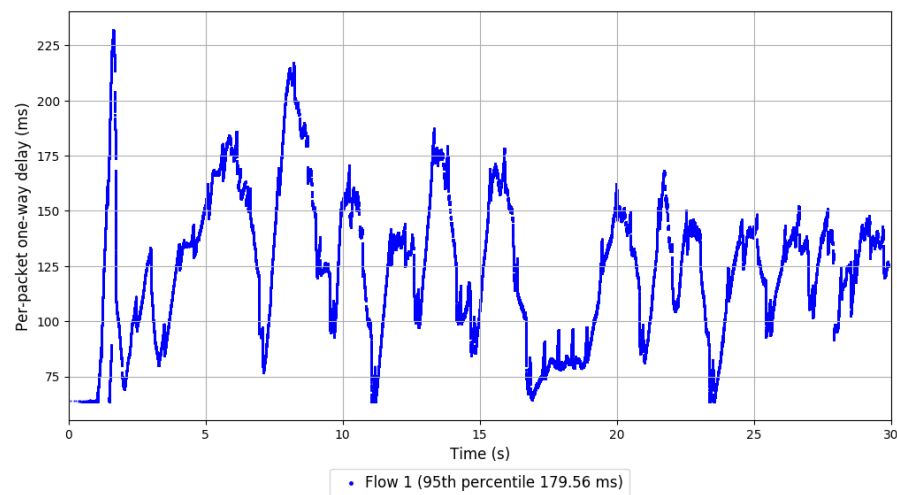
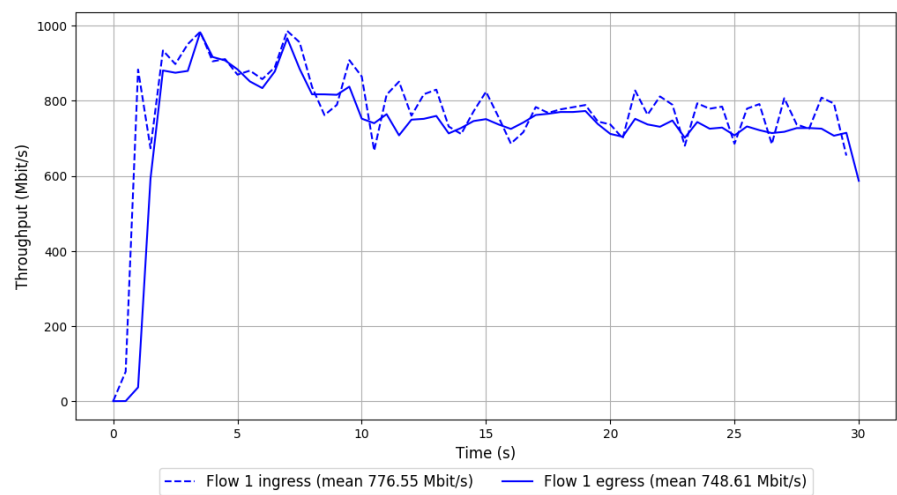


Run 8: Statistics of FillP

Start at: 2018-05-25 11:42:12  
End at: 2018-05-25 11:42:42  
Local clock offset: 0.028 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-05-25 13:28:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 748.61 Mbit/s  
95th percentile per-packet one-way delay: 179.563 ms  
Loss rate: 4.01%  
-- Flow 1:  
Average throughput: 748.61 Mbit/s  
95th percentile per-packet one-way delay: 179.563 ms  
Loss rate: 4.01%

Run 8: Report of FillP — Data Link



Run 9: Statistics of FillP

Start at: 2018-05-25 12:02:47

End at: 2018-05-25 12:03:17

Local clock offset: -0.025 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-05-25 13:46:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 766.65 Mbit/s

95th percentile per-packet one-way delay: 240.842 ms

Loss rate: 3.24%

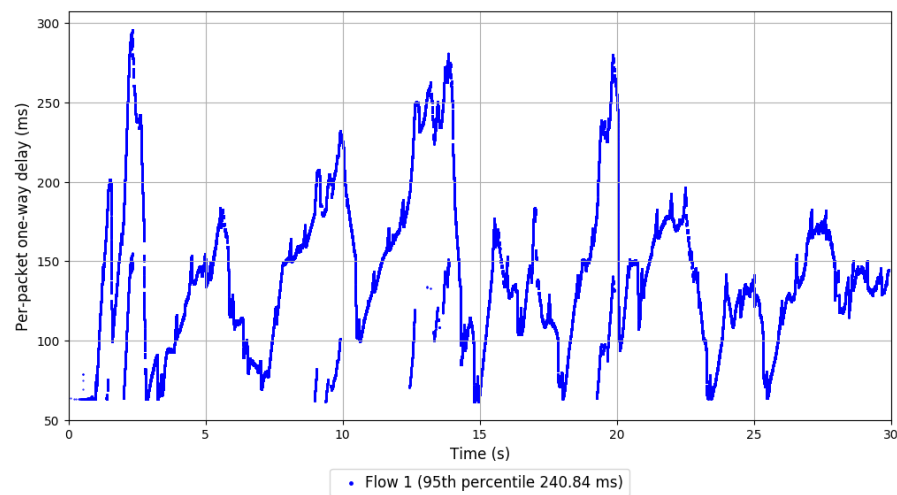
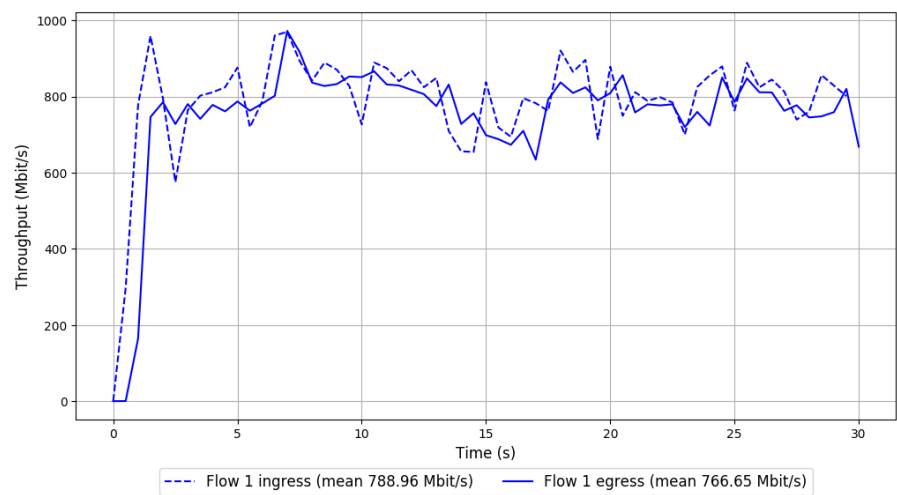
-- Flow 1:

Average throughput: 766.65 Mbit/s

95th percentile per-packet one-way delay: 240.842 ms

Loss rate: 3.24%

Run 9: Report of FillP — Data Link

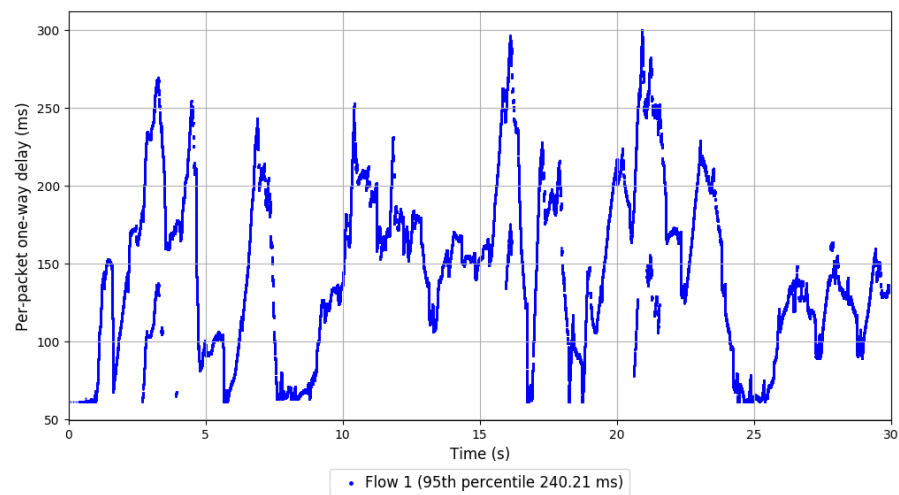
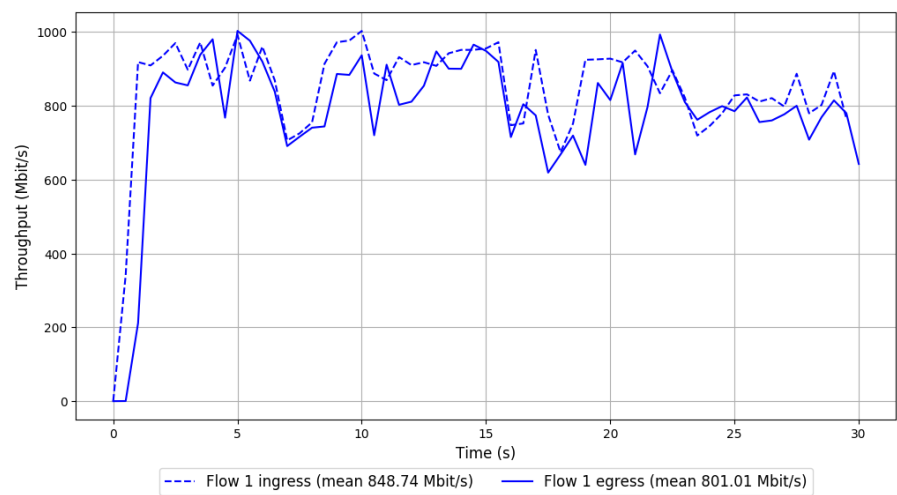


Run 10: Statistics of FillP

Start at: 2018-05-25 12:23:08  
End at: 2018-05-25 12:23:38  
Local clock offset: -0.081 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 801.01 Mbit/s  
95th percentile per-packet one-way delay: 240.207 ms  
Loss rate: 6.02%  
-- Flow 1:  
Average throughput: 801.01 Mbit/s  
95th percentile per-packet one-way delay: 240.207 ms  
Loss rate: 6.02%

Run 10: Report of FillP — Data Link



Run 1: Statistics of Indigo

Start at: 2018-05-25 09:32:31

End at: 2018-05-25 09:33:01

Local clock offset: -0.07 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.84 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.45%

-- Flow 1:

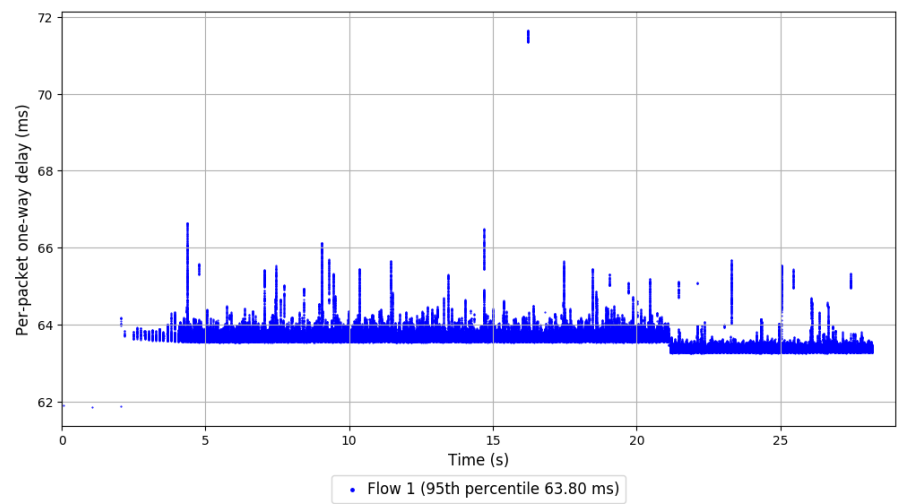
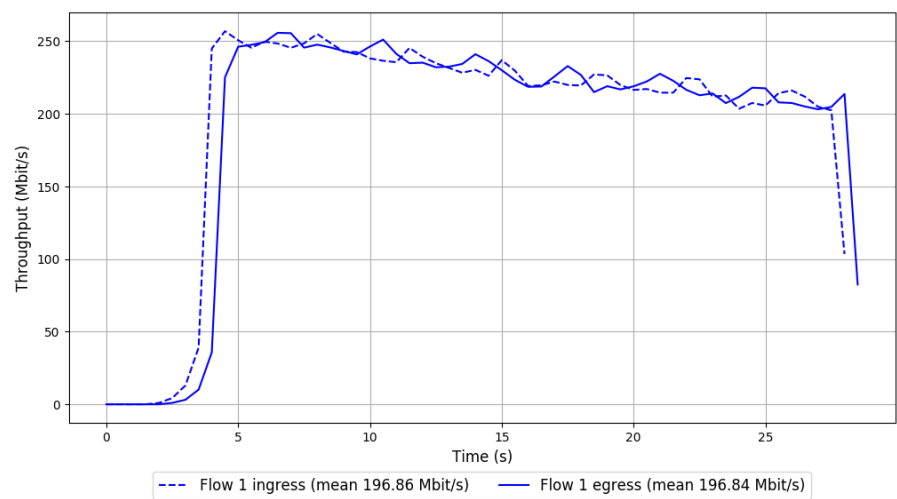
Average throughput: 196.84 Mbit/s

95th percentile per-packet one-way delay: 63.796 ms

Loss rate: 0.45%



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-25 09:52:55

End at: 2018-05-25 09:53:25

Local clock offset: -0.006 ms

Remote clock offset: 0.197 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.63 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.43%

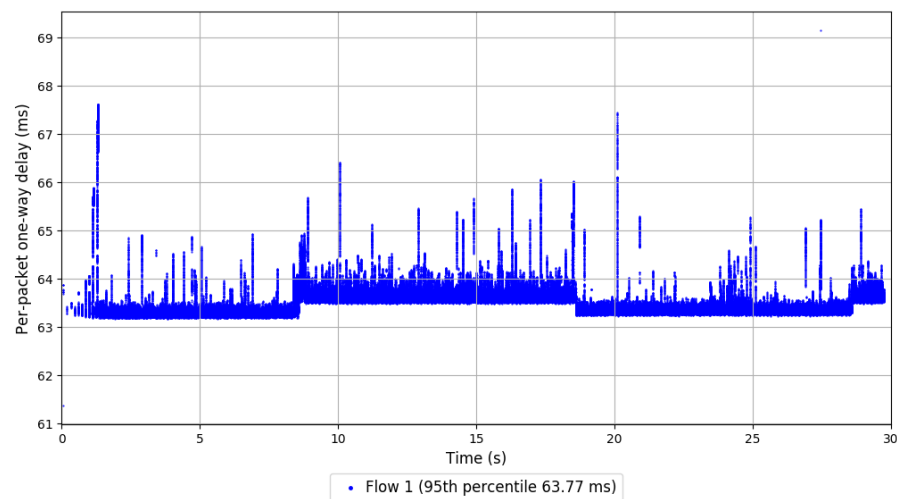
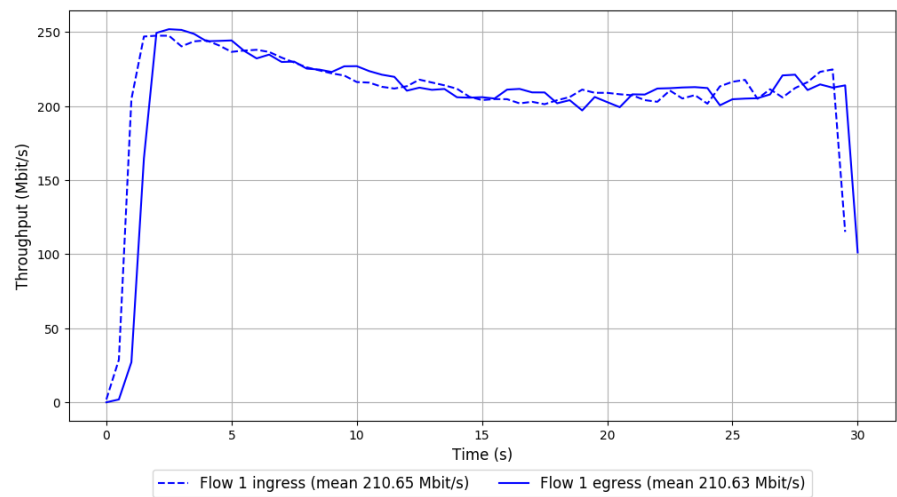
-- Flow 1:

Average throughput: 210.63 Mbit/s

95th percentile per-packet one-way delay: 63.774 ms

Loss rate: 0.43%

Run 2: Report of Indigo — Data Link

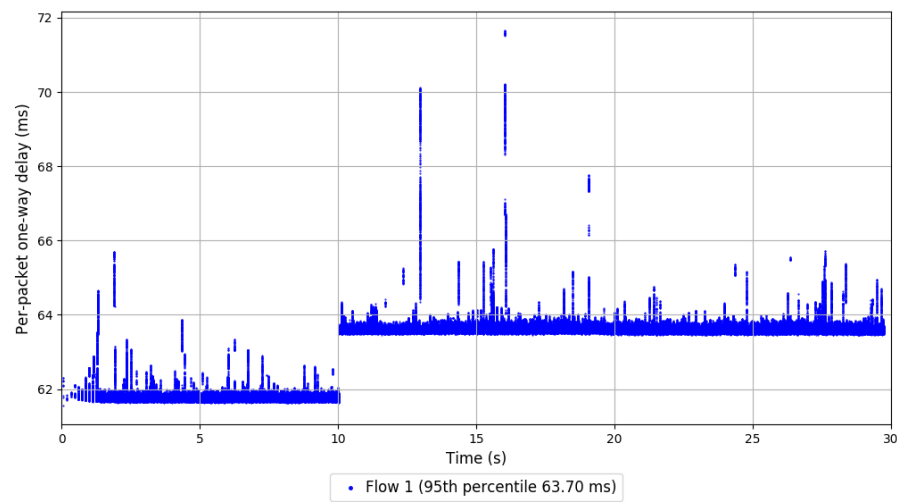
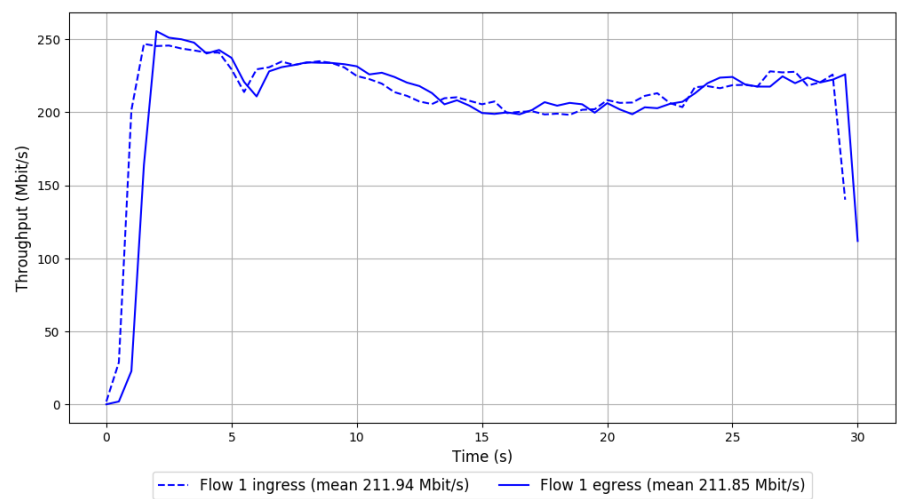


Run 3: Statistics of Indigo

Start at: 2018-05-25 10:13:34  
End at: 2018-05-25 10:14:04  
Local clock offset: -0.014 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 211.85 Mbit/s  
95th percentile per-packet one-way delay: 63.703 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 211.85 Mbit/s  
95th percentile per-packet one-way delay: 63.703 ms  
Loss rate: 0.45%

Run 3: Report of Indigo — Data Link



Run 4: Statistics of Indigo

Start at: 2018-05-25 10:34:02

End at: 2018-05-25 10:34:32

Local clock offset: 0.003 ms

Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 215.84 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.45%

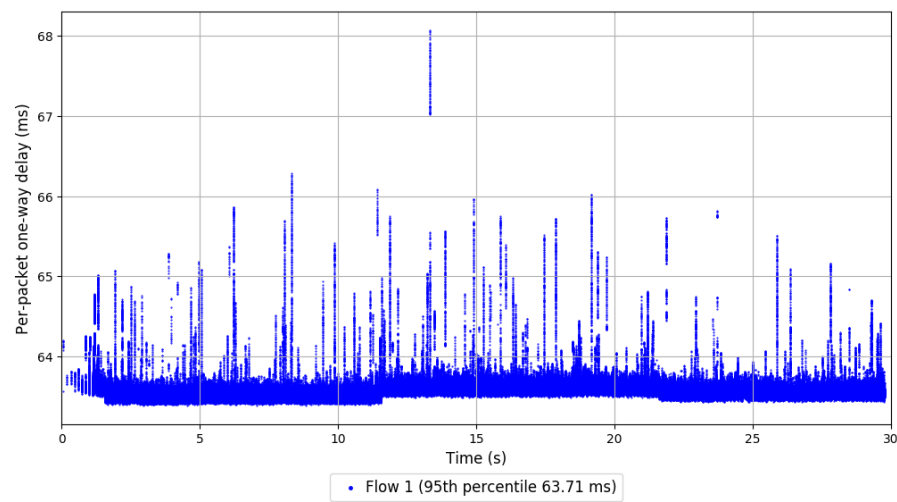
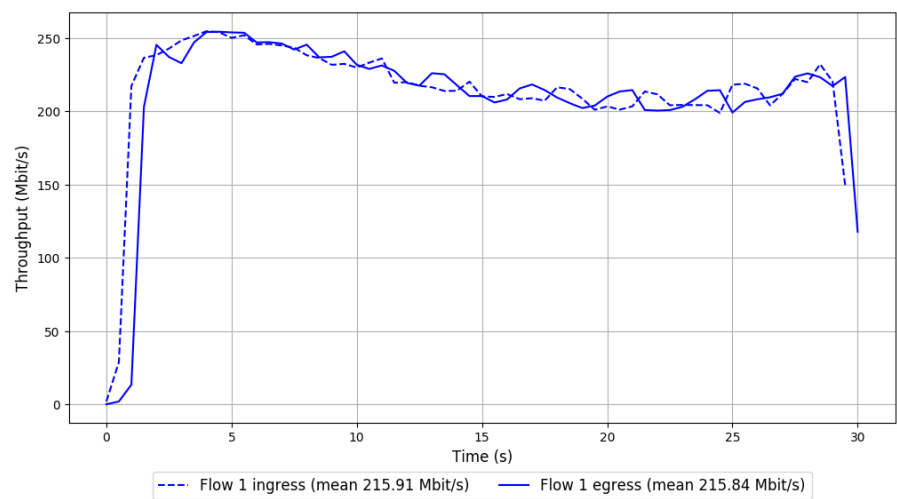
-- Flow 1:

Average throughput: 215.84 Mbit/s

95th percentile per-packet one-way delay: 63.706 ms

Loss rate: 0.45%

Run 4: Report of Indigo — Data Link



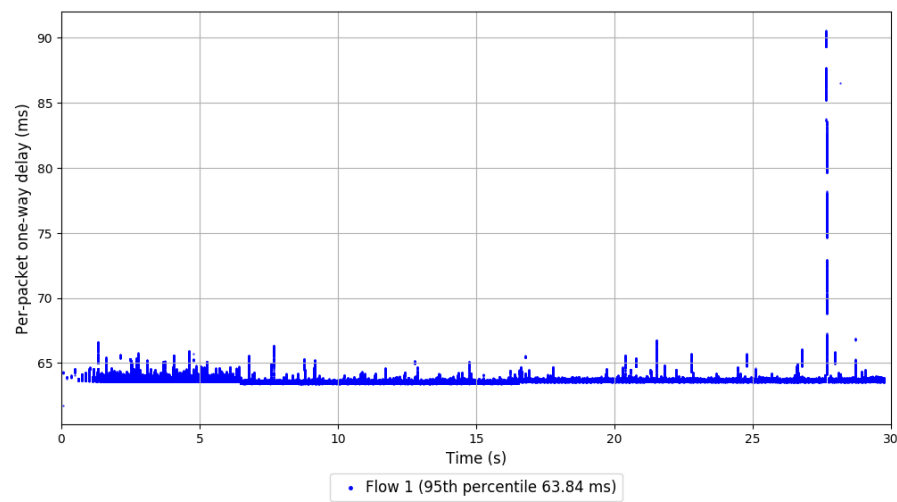
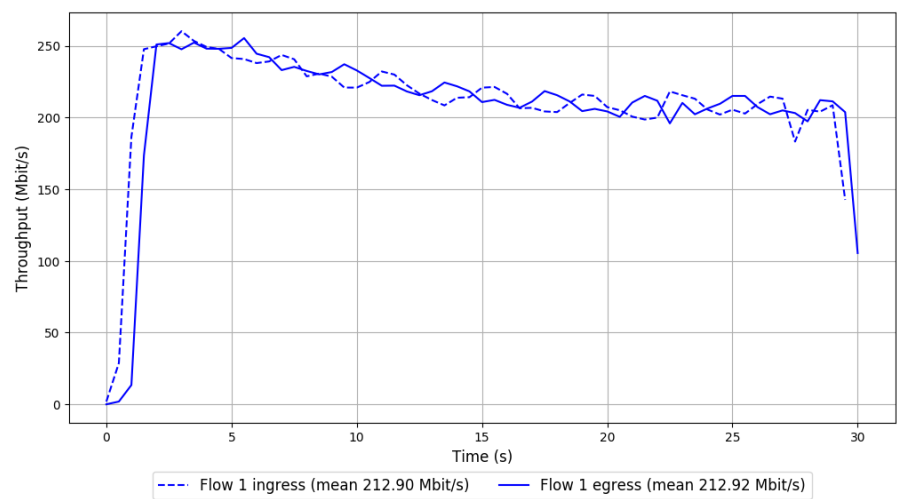
Run 5: Statistics of Indigo

Start at: 2018-05-25 10:54:27  
End at: 2018-05-25 10:54:57  
Local clock offset: 0.018 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 212.92 Mbit/s  
95th percentile per-packet one-way delay: 63.835 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 212.92 Mbit/s  
95th percentile per-packet one-way delay: 63.835 ms  
Loss rate: 0.41%



Run 5: Report of Indigo — Data Link



Run 6: Statistics of Indigo

Start at: 2018-05-25 11:15:03

End at: 2018-05-25 11:15:33

Local clock offset: 0.018 ms

Remote clock offset: 0.144 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.46%

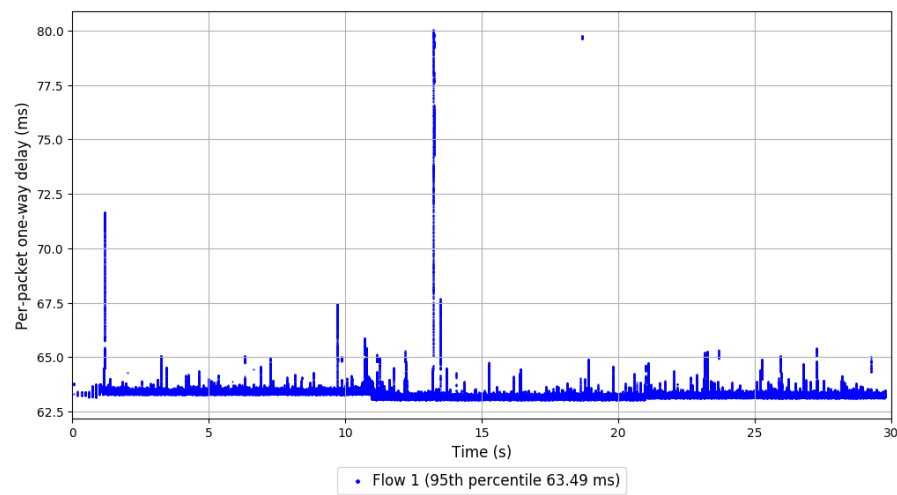
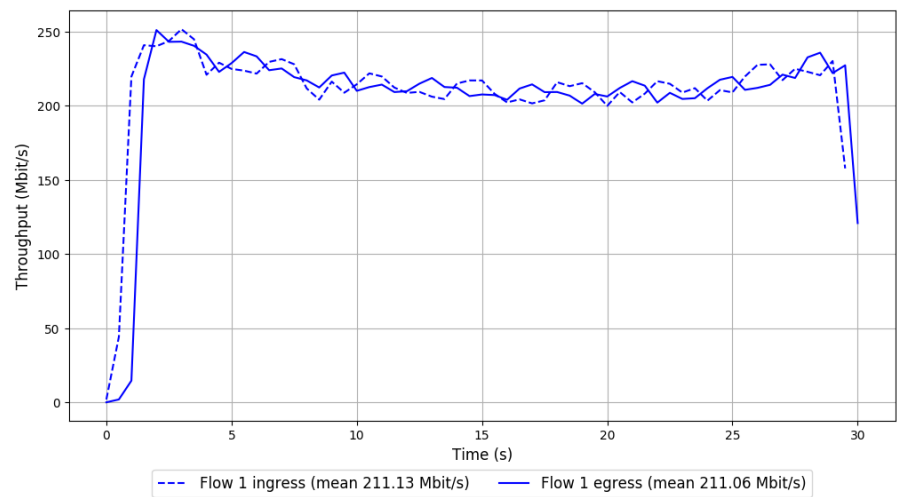
-- Flow 1:

Average throughput: 211.06 Mbit/s

95th percentile per-packet one-way delay: 63.486 ms

Loss rate: 0.46%

Run 6: Report of Indigo — Data Link

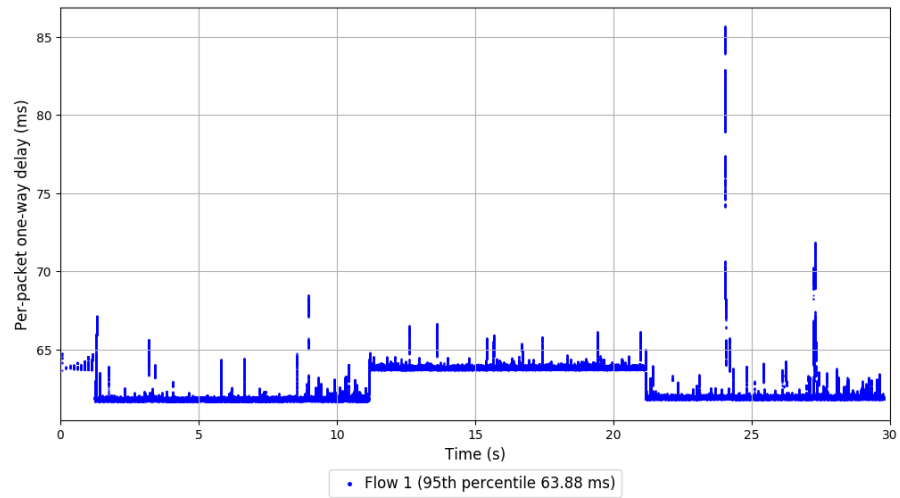
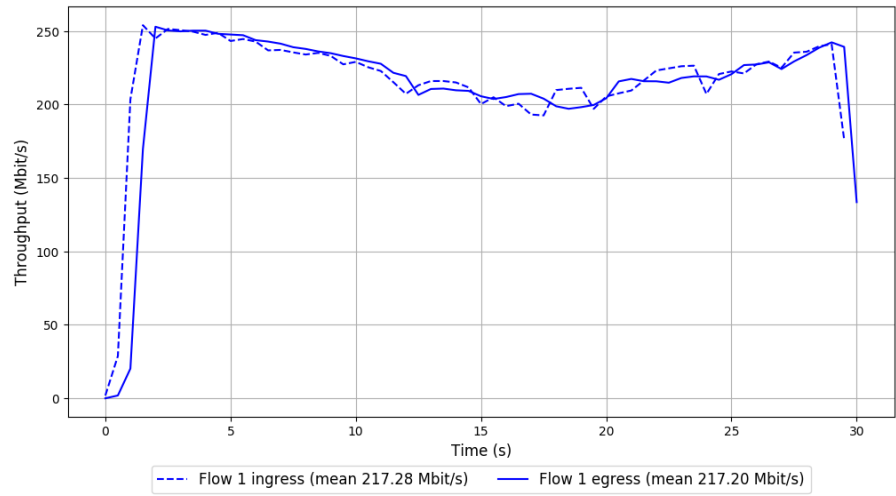


Run 7: Statistics of Indigo

Start at: 2018-05-25 11:35:53  
End at: 2018-05-25 11:36:23  
Local clock offset: 0.012 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.20 Mbit/s  
95th percentile per-packet one-way delay: 63.883 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 217.20 Mbit/s  
95th percentile per-packet one-way delay: 63.883 ms  
Loss rate: 0.46%

## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-25 11:56:23

End at: 2018-05-25 11:56:53

Local clock offset: 0.02 ms

Remote clock offset: 0.118 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 219.22 Mbit/s

95th percentile per-packet one-way delay: 63.913 ms

Loss rate: 0.43%

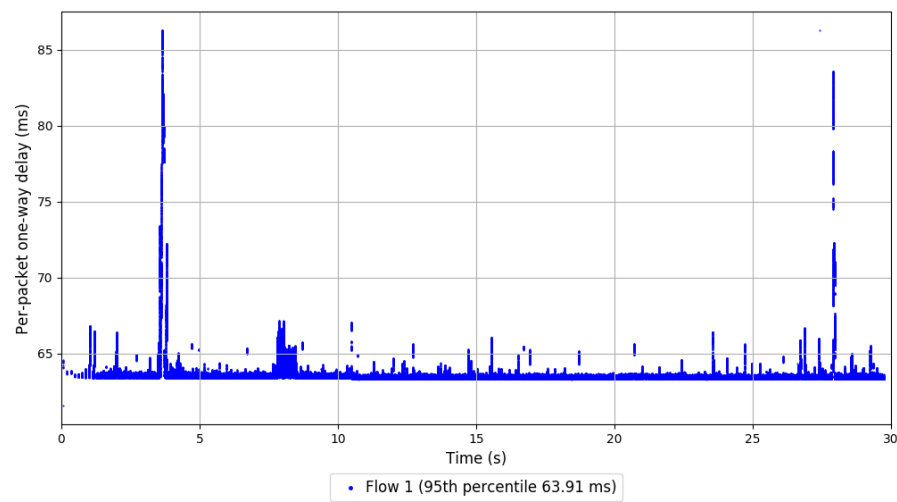
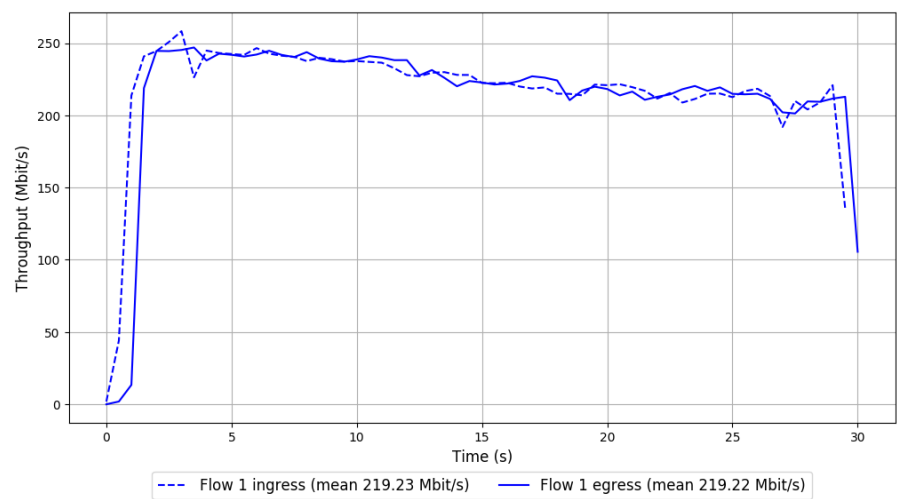
-- Flow 1:

Average throughput: 219.22 Mbit/s

95th percentile per-packet one-way delay: 63.913 ms

Loss rate: 0.43%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-05-25 12:16:44

End at: 2018-05-25 12:17:15

Local clock offset: -0.08 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.66 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.50%

-- Flow 1:

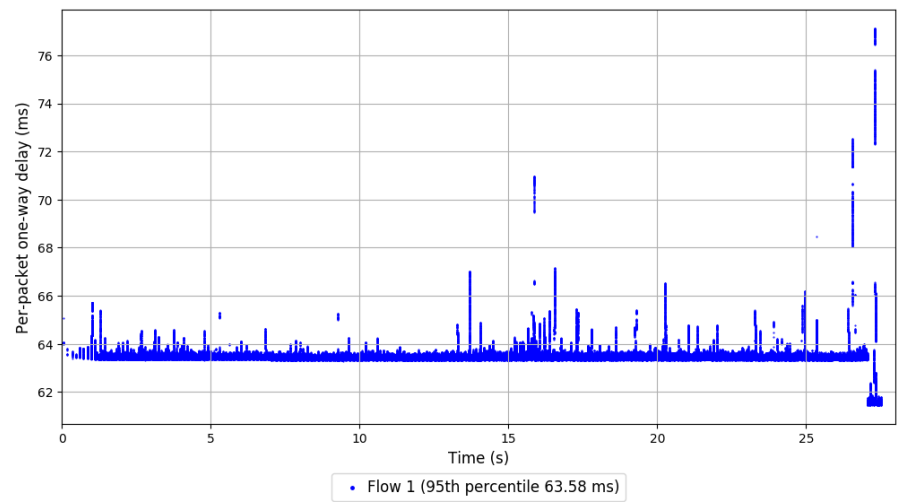
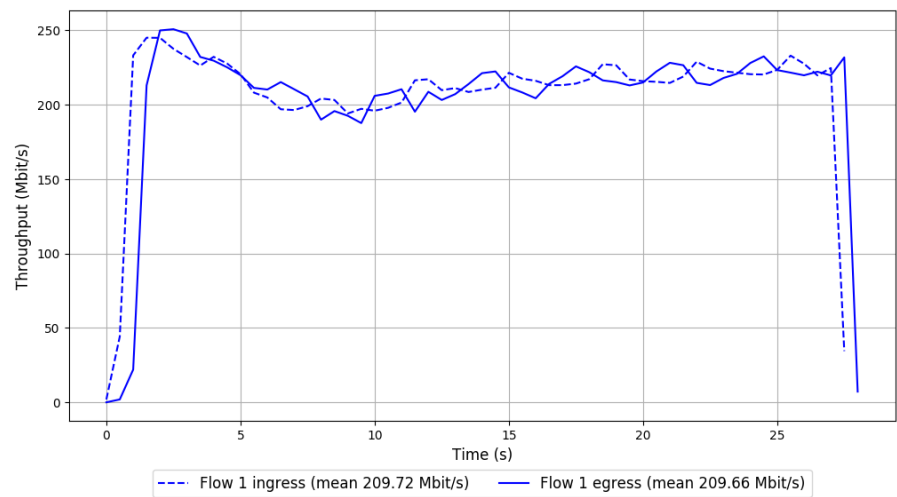
Average throughput: 209.66 Mbit/s

95th percentile per-packet one-way delay: 63.582 ms

Loss rate: 0.50%



Run 9: Report of Indigo — Data Link

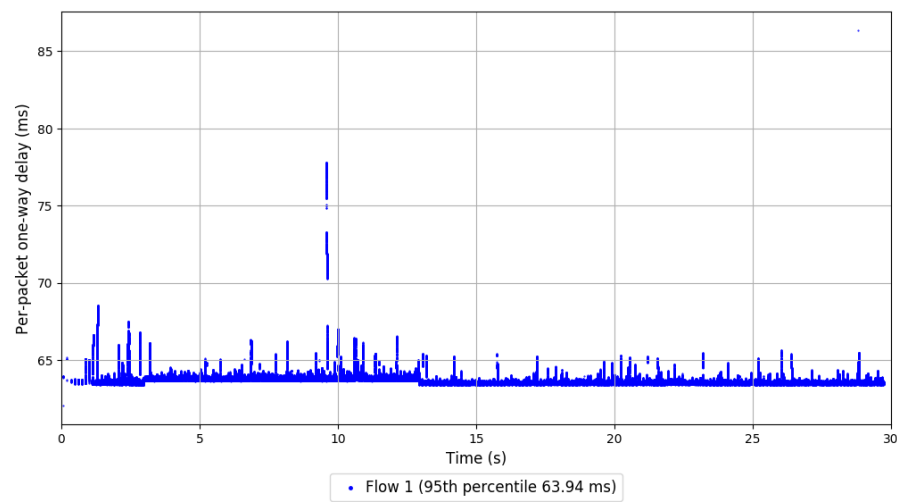
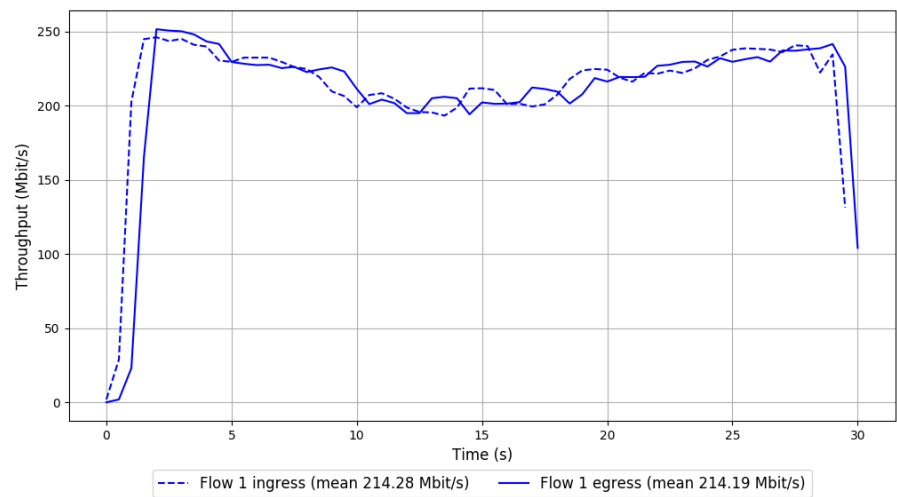


Run 10: Statistics of Indigo

Start at: 2018-05-25 12:37:01  
End at: 2018-05-25 12:37:31  
Local clock offset: -0.105 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.19 Mbit/s  
95th percentile per-packet one-way delay: 63.935 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 214.19 Mbit/s  
95th percentile per-packet one-way delay: 63.935 ms  
Loss rate: 0.46%

Run 10: Report of Indigo — Data Link

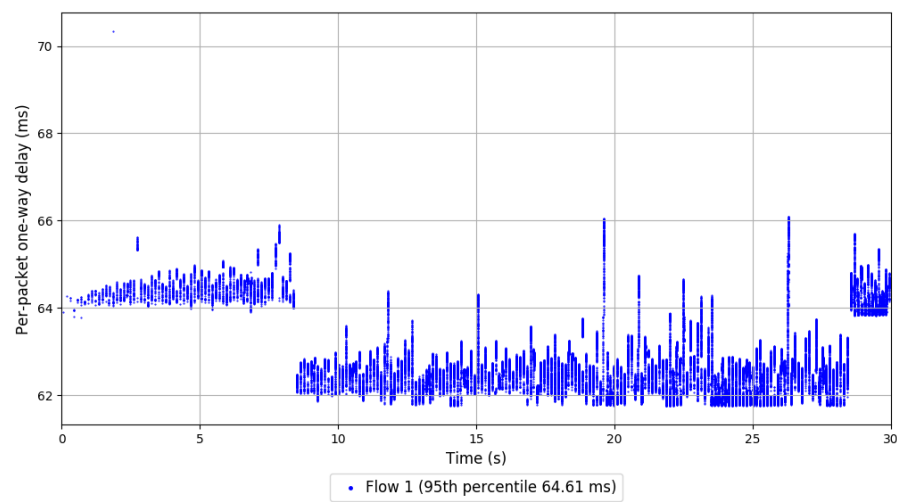
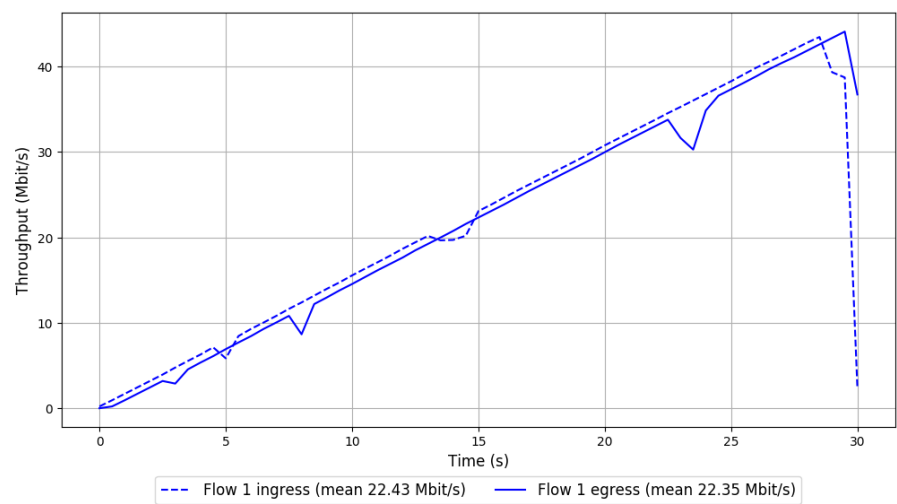


Run 1: Statistics of LEDBAT

Start at: 2018-05-25 09:25:15  
End at: 2018-05-25 09:25:45  
Local clock offset: -0.012 ms  
Remote clock offset: -0.223 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.35 Mbit/s  
95th percentile per-packet one-way delay: 64.610 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 22.35 Mbit/s  
95th percentile per-packet one-way delay: 64.610 ms  
Loss rate: 0.78%

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-25 09:45:47

End at: 2018-05-25 09:46:17

Local clock offset: -0.083 ms

Remote clock offset: 0.0 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 64.495 ms

Loss rate: 0.83%

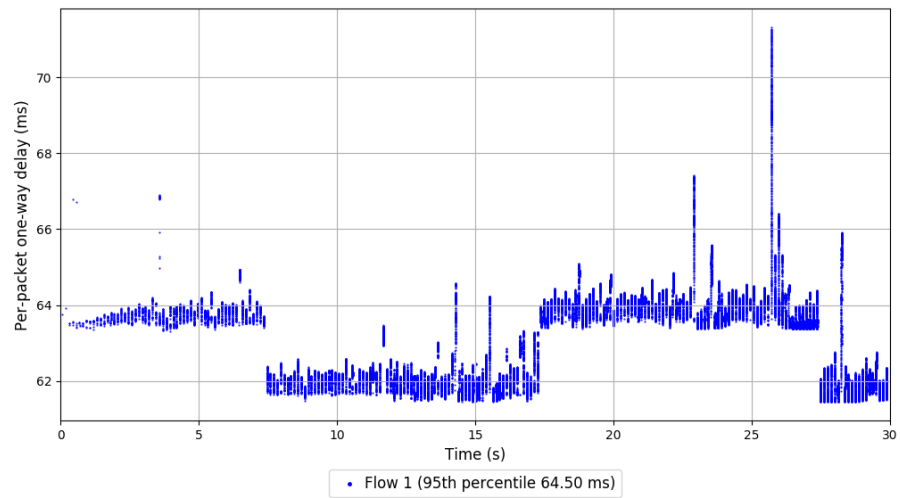
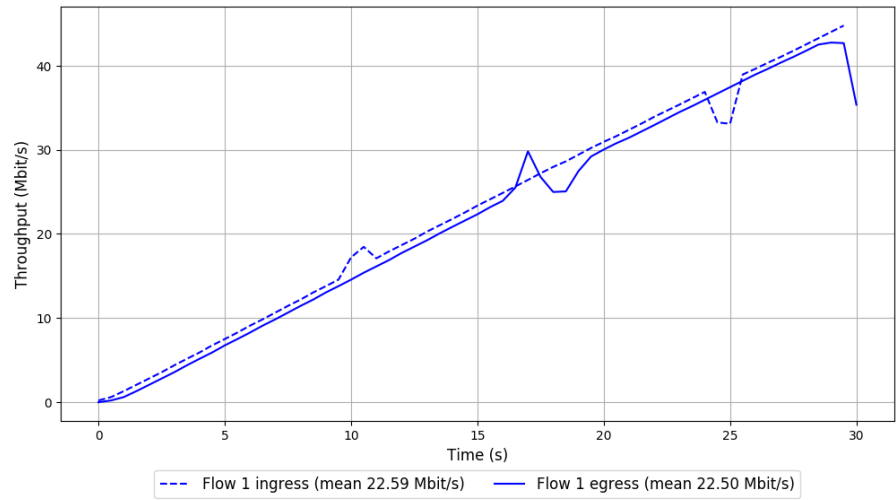
-- Flow 1:

Average throughput: 22.50 Mbit/s

95th percentile per-packet one-way delay: 64.495 ms

Loss rate: 0.83%

## Run 2: Report of LEDBAT — Data Link



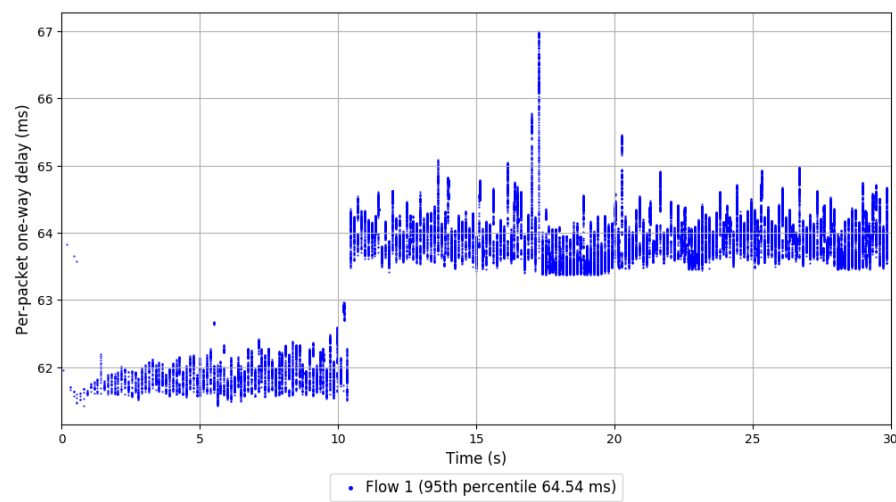
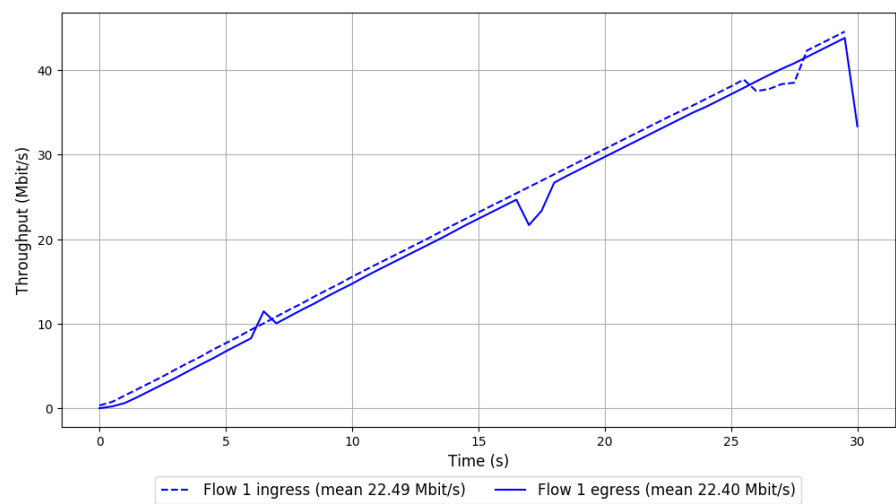
Run 3: Statistics of LEDBAT

Start at: 2018-05-25 10:06:14  
End at: 2018-05-25 10:06:44  
Local clock offset: 0.008 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-05-25 13:47:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.40 Mbit/s  
95th percentile per-packet one-way delay: 64.539 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 22.40 Mbit/s  
95th percentile per-packet one-way delay: 64.539 ms  
Loss rate: 0.83%



Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-25 10:26:48

End at: 2018-05-25 10:27:18

Local clock offset: -0.005 ms

Remote clock offset: 0.259 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 64.384 ms

Loss rate: 0.87%

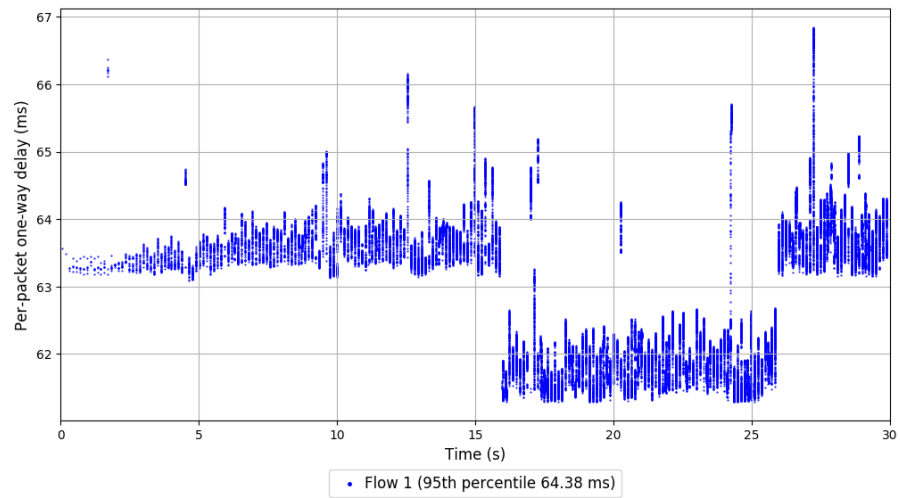
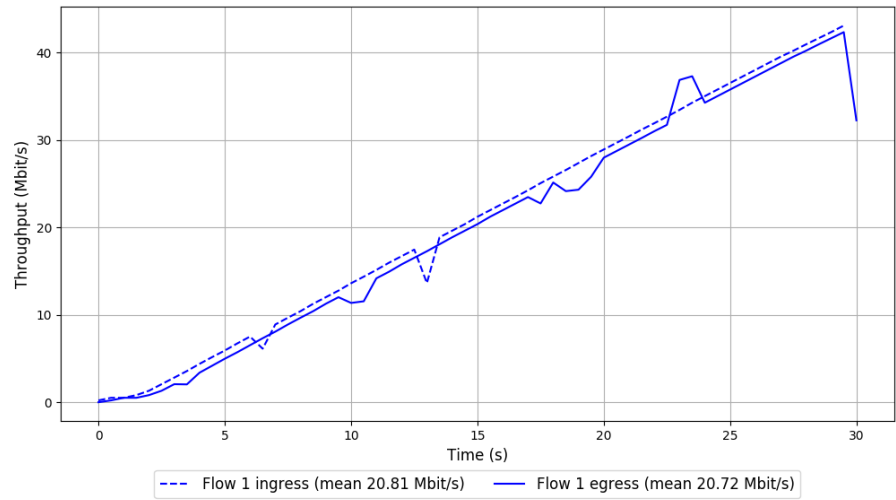
-- Flow 1:

Average throughput: 20.72 Mbit/s

95th percentile per-packet one-way delay: 64.384 ms

Loss rate: 0.87%

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



Run 5: Statistics of LEDBAT

Start at: 2018-05-25 10:47:20

End at: 2018-05-25 10:47:50

Local clock offset: 0.04 ms

Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 0.83%

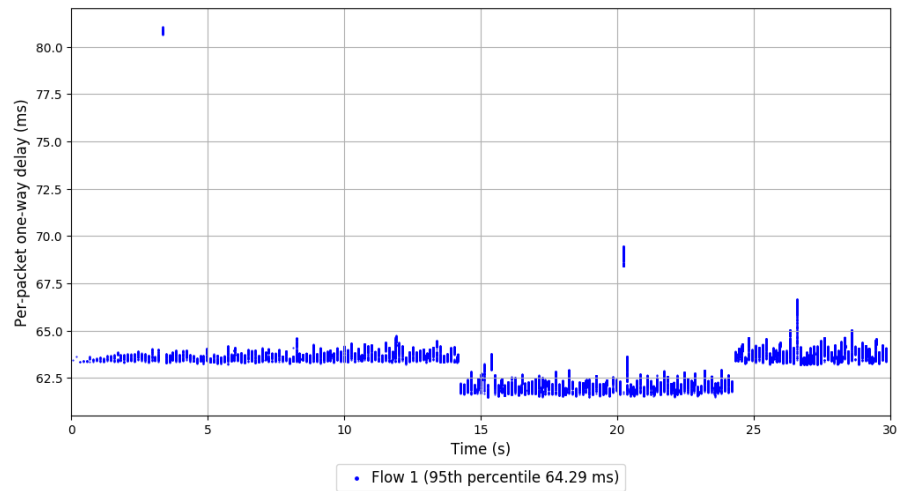
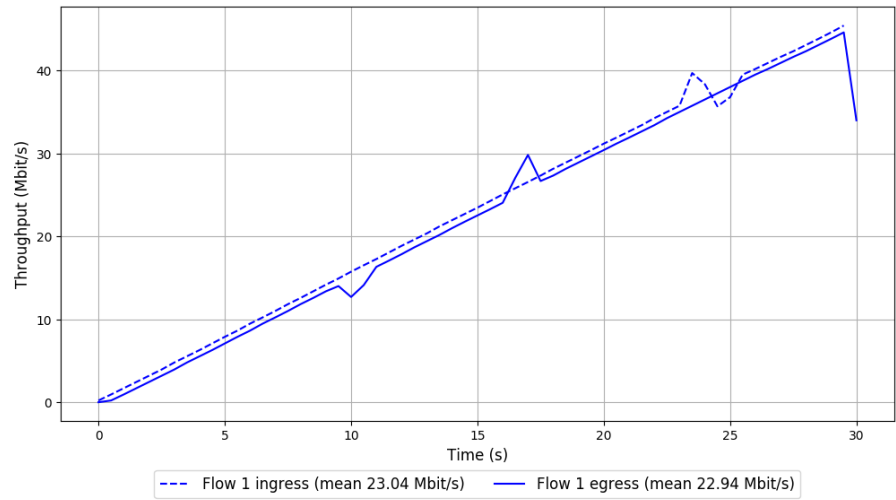
-- Flow 1:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 64.293 ms

Loss rate: 0.83%

### Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-25 11:07:38

End at: 2018-05-25 11:08:08

Local clock offset: 0.022 ms

Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 65.925 ms

Loss rate: 0.84%

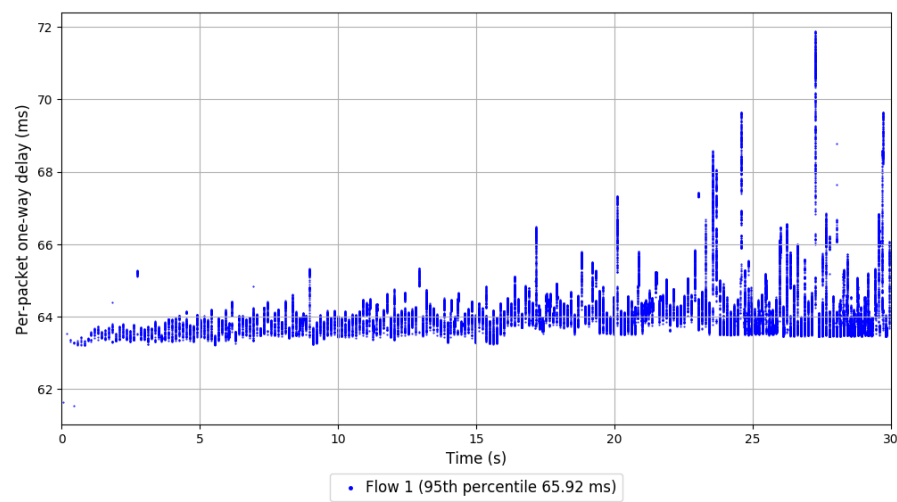
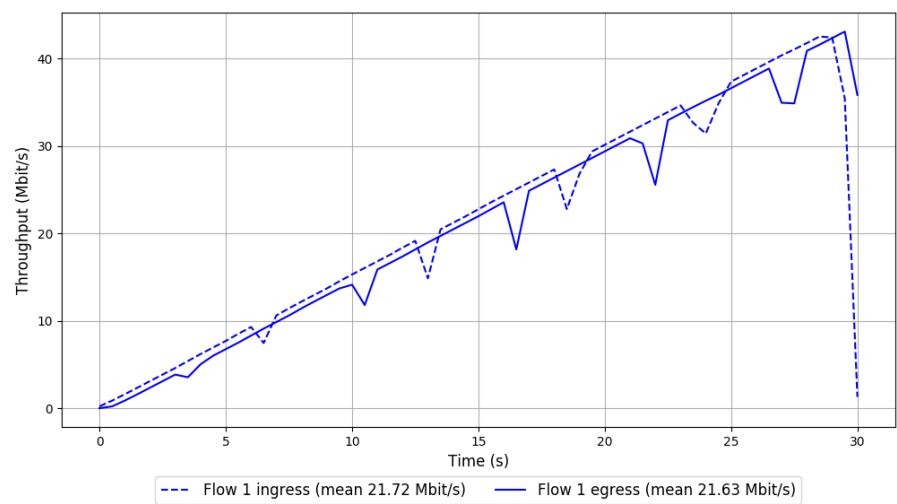
-- Flow 1:

Average throughput: 21.63 Mbit/s

95th percentile per-packet one-way delay: 65.925 ms

Loss rate: 0.84%

Run 6: Report of LEDBAT — Data Link



Run 7: Statistics of LEDBAT

Start at: 2018-05-25 11:28:29

End at: 2018-05-25 11:28:59

Local clock offset: 0.026 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 0.84%

-- Flow 1:

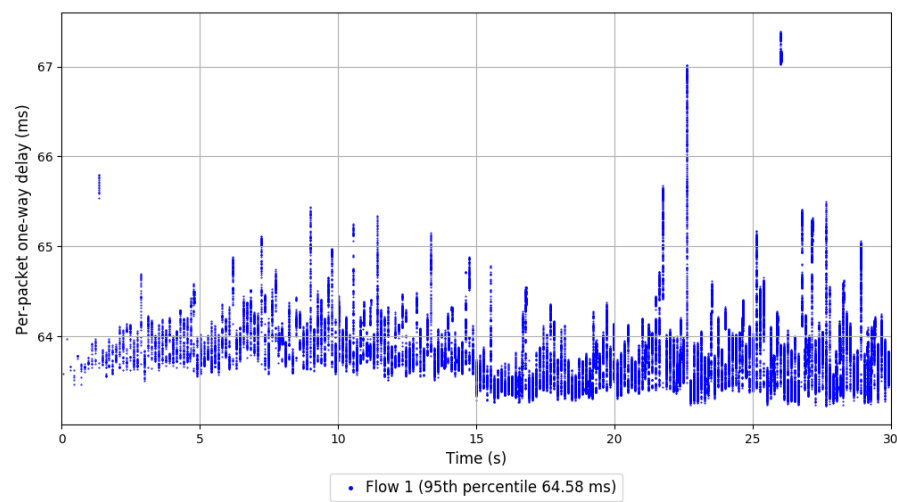
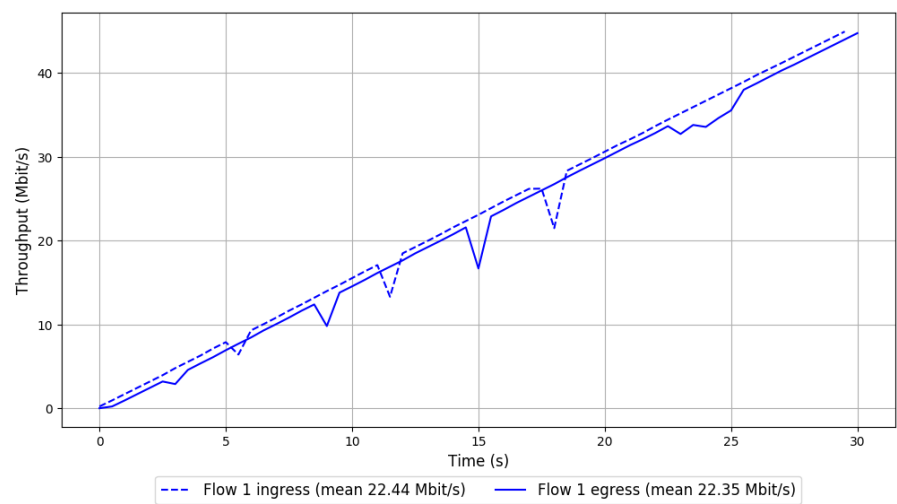
Average throughput: 22.35 Mbit/s

95th percentile per-packet one-way delay: 64.576 ms

Loss rate: 0.84%



Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-25 11:48:55

End at: 2018-05-25 11:49:25

Local clock offset: -0.006 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 64.601 ms

Loss rate: 0.92%

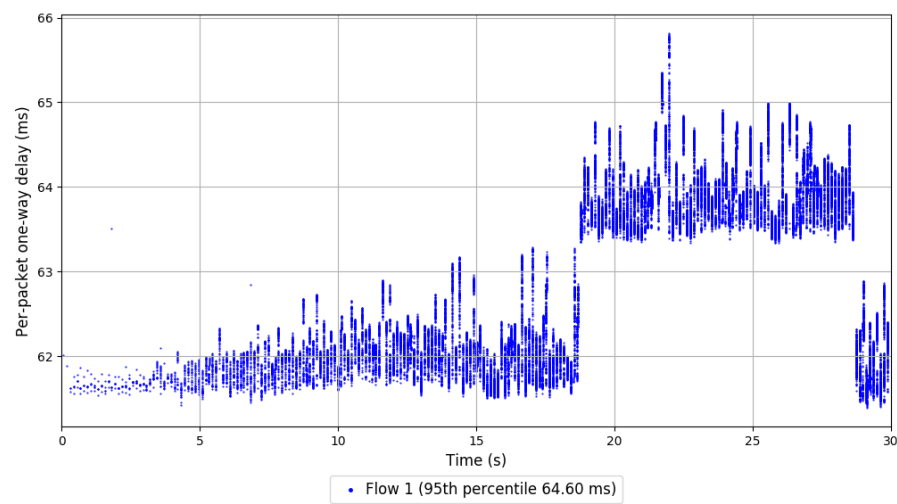
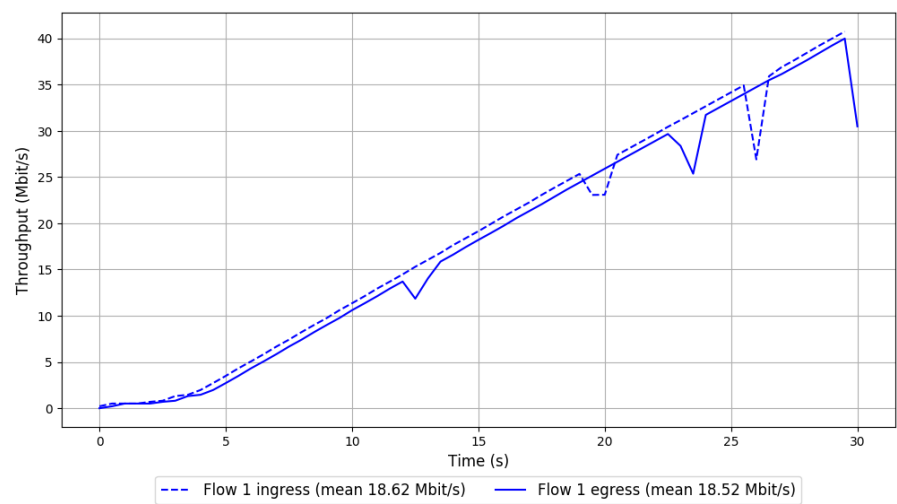
-- Flow 1:

Average throughput: 18.52 Mbit/s

95th percentile per-packet one-way delay: 64.601 ms

Loss rate: 0.92%

Run 8: Report of LEDBAT — Data Link



Run 9: Statistics of LEDBAT

Start at: 2018-05-25 12:09:28

End at: 2018-05-25 12:09:58

Local clock offset: -0.014 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 64.637 ms

Loss rate: 0.24%

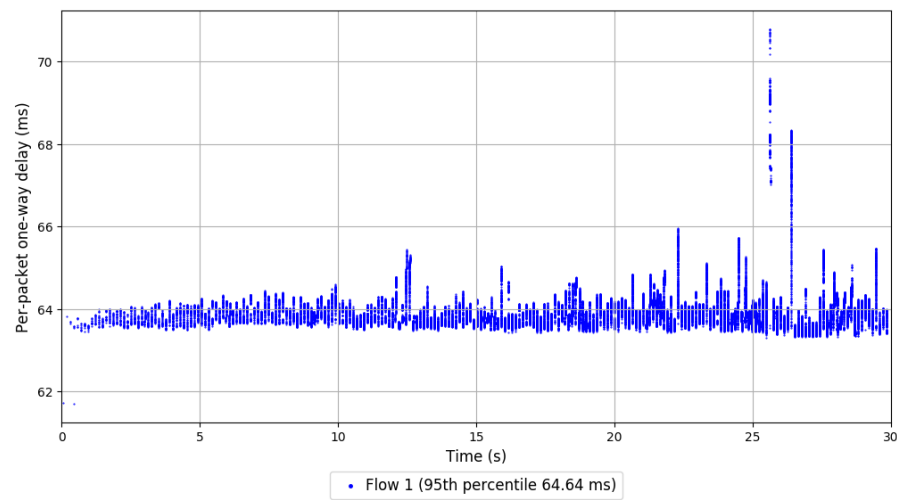
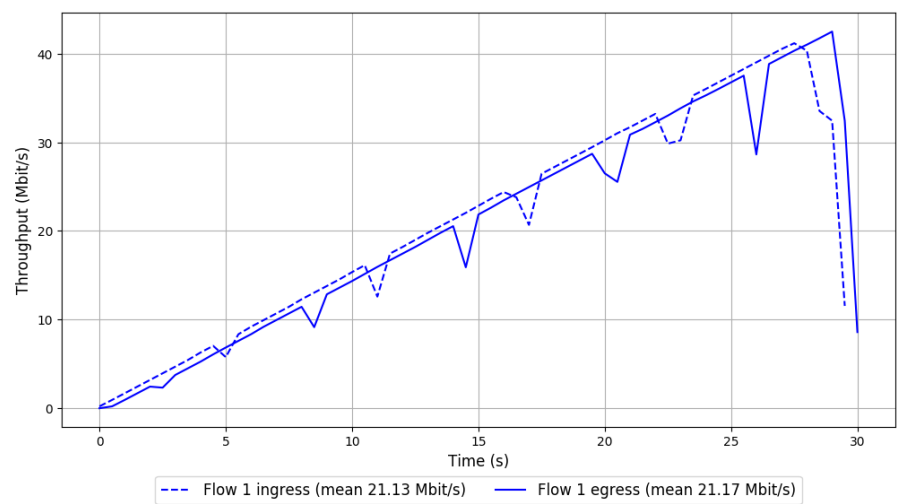
-- Flow 1:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 64.637 ms

Loss rate: 0.24%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-25 12:29:53

End at: 2018-05-25 12:30:23

Local clock offset: -0.106 ms

Remote clock offset: 0.138 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 21.80 Mbit/s

95th percentile per-packet one-way delay: 64.444 ms

Loss rate: 0.85%

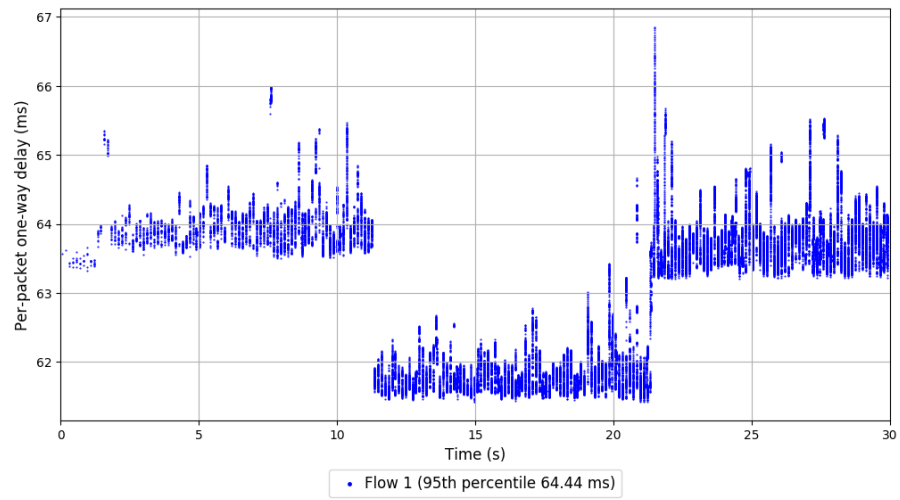
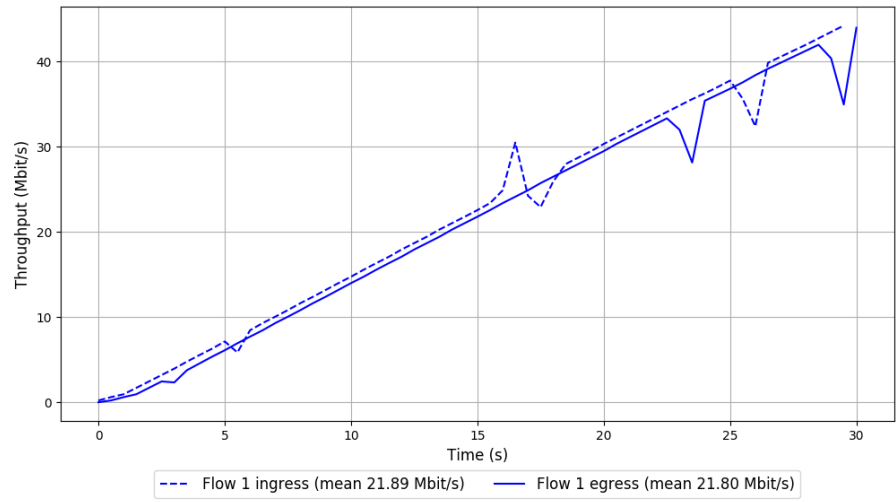
-- Flow 1:

Average throughput: 21.80 Mbit/s

95th percentile per-packet one-way delay: 64.444 ms

Loss rate: 0.85%

# Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-05-25 09:35:12

End at: 2018-05-25 09:35:42

Local clock offset: -0.077 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 549.18 Mbit/s

95th percentile per-packet one-way delay: 125.129 ms

Loss rate: 1.07%

-- Flow 1:

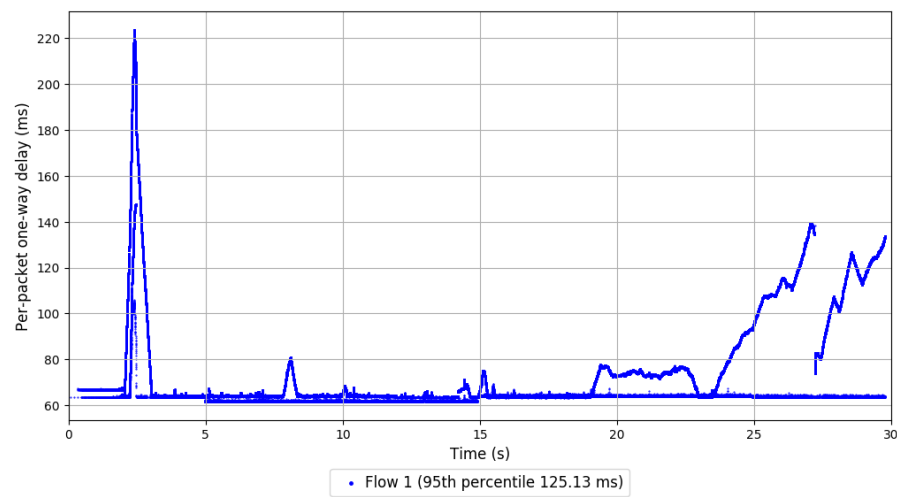
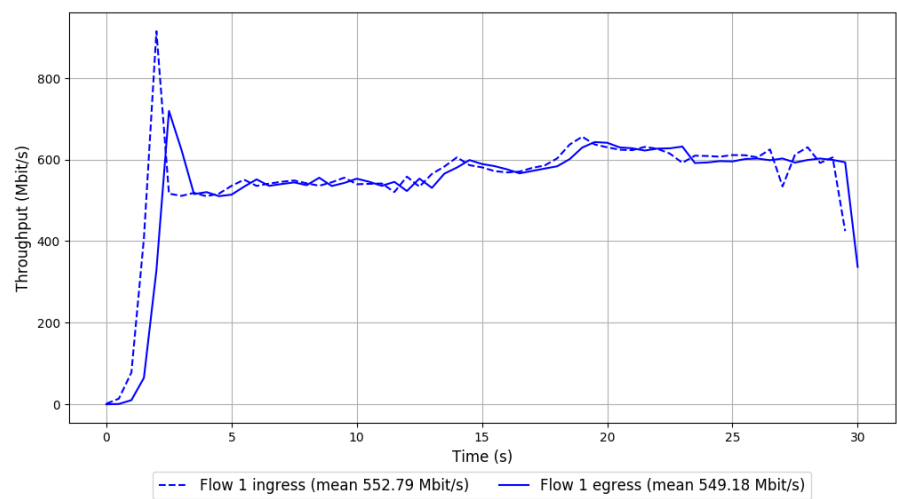
Average throughput: 549.18 Mbit/s

95th percentile per-packet one-way delay: 125.129 ms

Loss rate: 1.07%



Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-25 09:55:40

End at: 2018-05-25 09:56:10

Local clock offset: -0.014 ms

Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 518.76 Mbit/s

95th percentile per-packet one-way delay: 98.099 ms

Loss rate: 1.23%

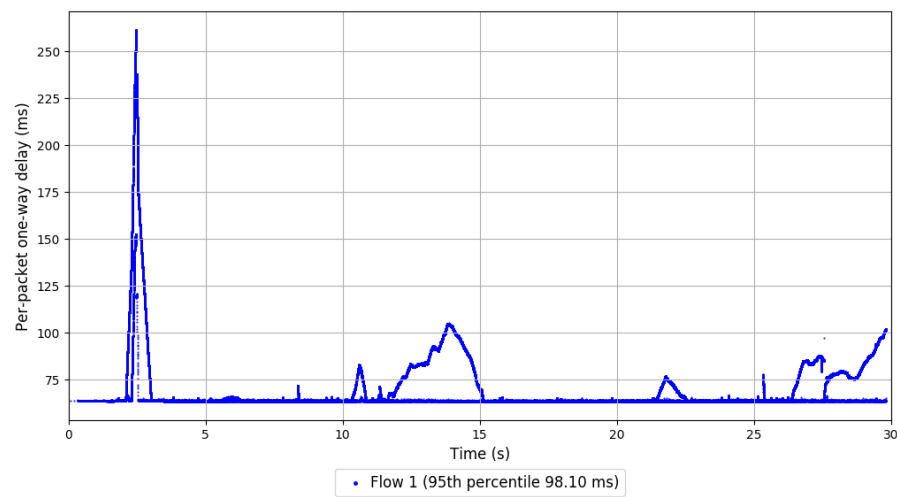
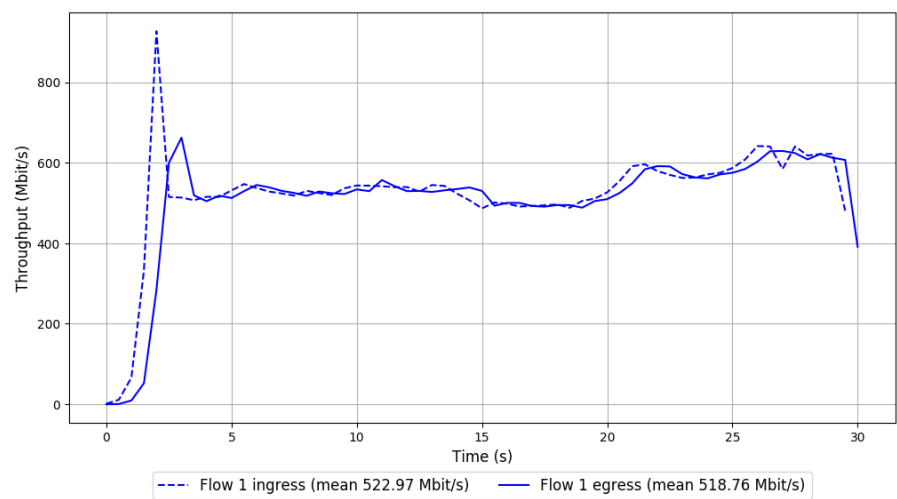
-- Flow 1:

Average throughput: 518.76 Mbit/s

95th percentile per-packet one-way delay: 98.099 ms

Loss rate: 1.23%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-05-25 10:16:22

End at: 2018-05-25 10:16:52

Local clock offset: 0.007 ms

Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2018-05-25 13:47:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 532.72 Mbit/s

95th percentile per-packet one-way delay: 136.493 ms

Loss rate: 0.79%

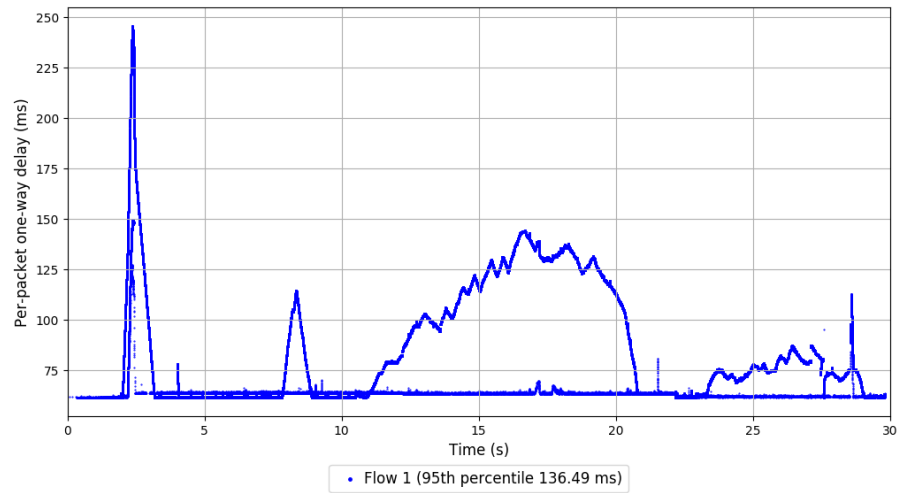
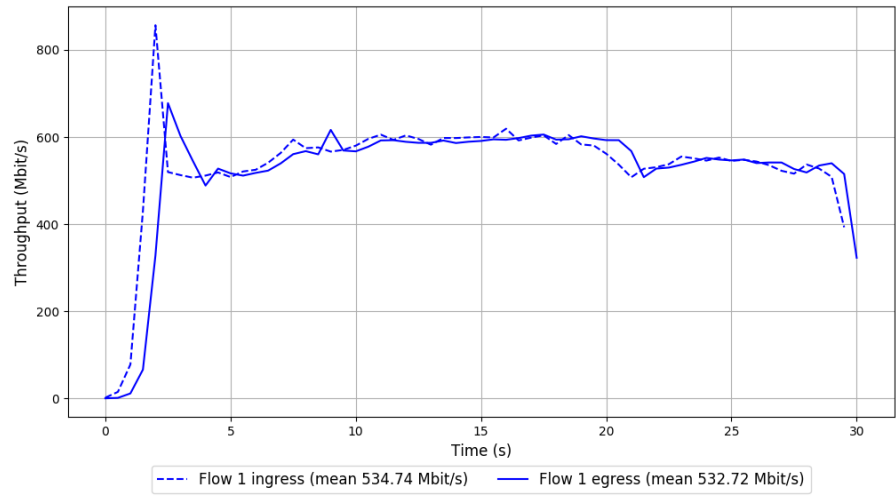
-- Flow 1:

Average throughput: 532.72 Mbit/s

95th percentile per-packet one-way delay: 136.493 ms

Loss rate: 0.79%

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-05-25 10:36:51

End at: 2018-05-25 10:37:21

Local clock offset: 0.012 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2018-05-25 13:48:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 558.46 Mbit/s

95th percentile per-packet one-way delay: 124.679 ms

Loss rate: 0.71%

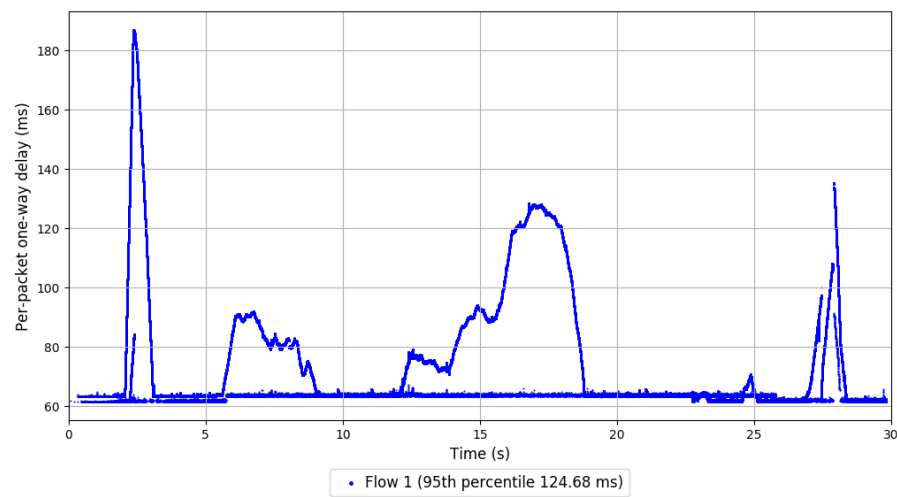
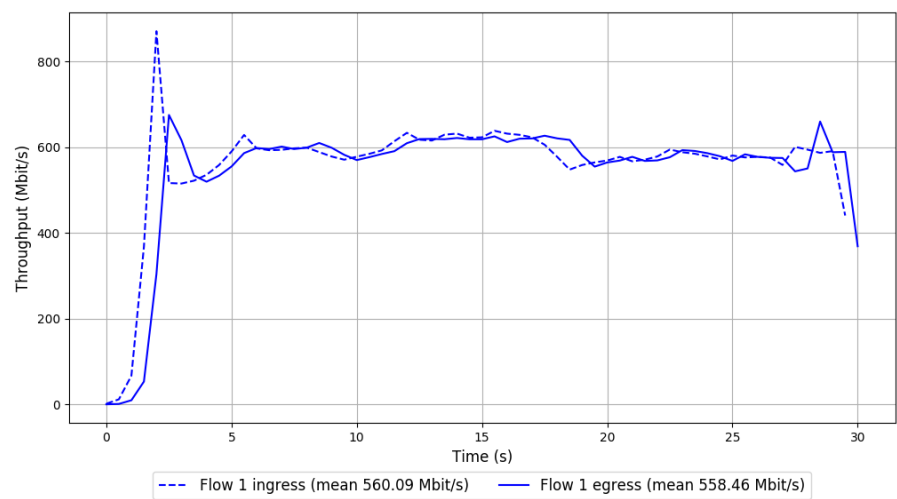
-- Flow 1:

Average throughput: 558.46 Mbit/s

95th percentile per-packet one-way delay: 124.679 ms

Loss rate: 0.71%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-05-25 10:57:14

End at: 2018-05-25 10:57:44

Local clock offset: 0.038 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-05-25 13:48:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 493.17 Mbit/s

95th percentile per-packet one-way delay: 184.224 ms

Loss rate: 1.00%

-- Flow 1:

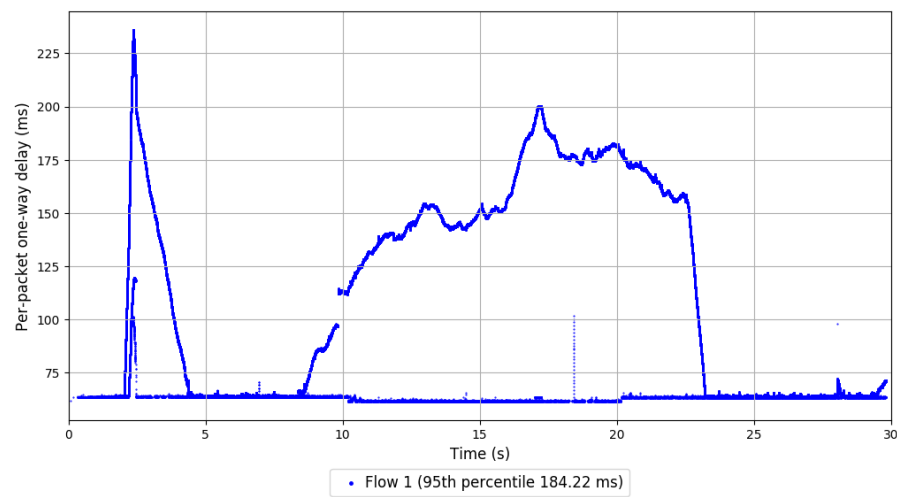
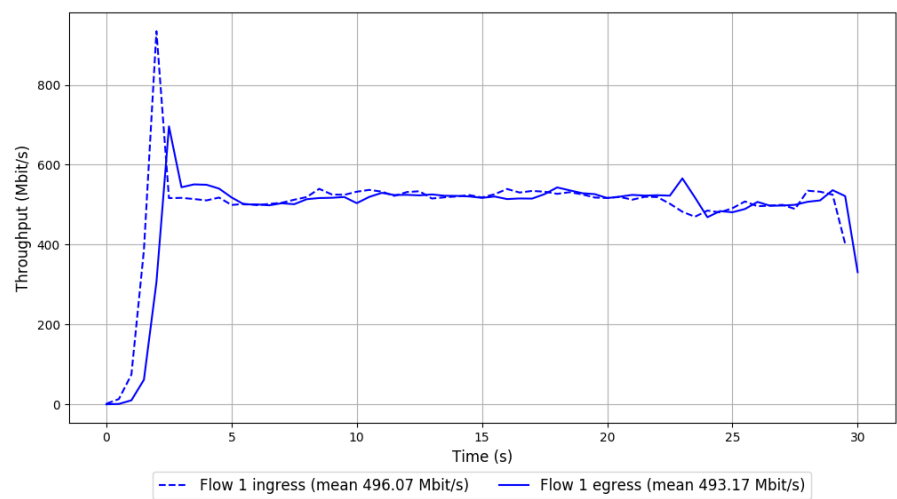
Average throughput: 493.17 Mbit/s

95th percentile per-packet one-way delay: 184.224 ms

Loss rate: 1.00%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-05-25 11:17:55

End at: 2018-05-25 11:18:25

Local clock offset: 0.057 ms

Remote clock offset: 0.219 ms

# Below is generated by plot.py at 2018-05-25 13:48:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 500.80 Mbit/s

95th percentile per-packet one-way delay: 202.787 ms

Loss rate: 3.92%

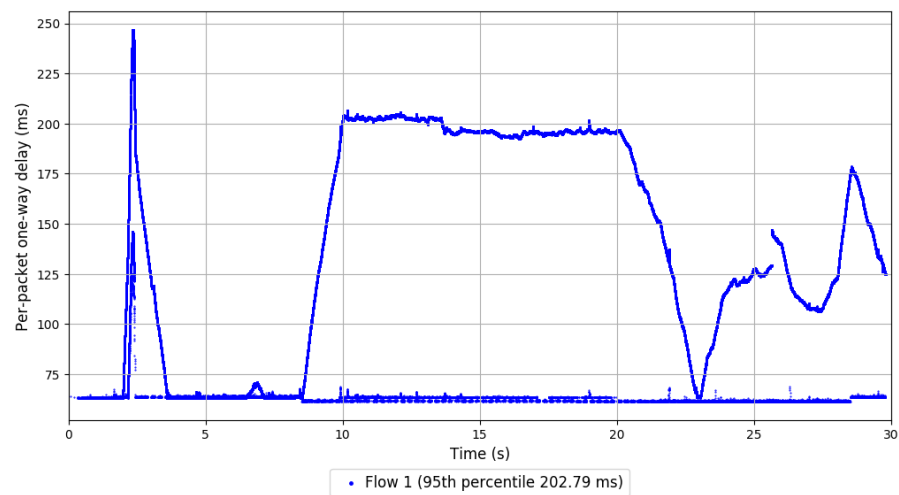
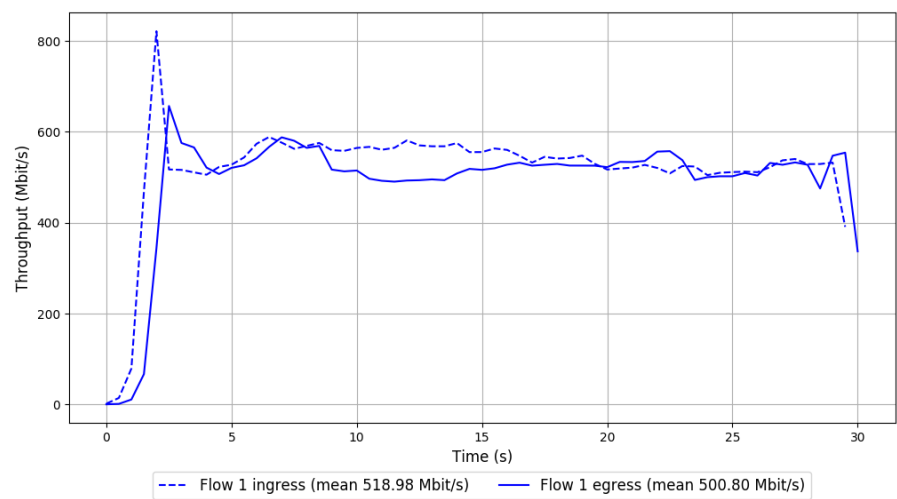
-- Flow 1:

Average throughput: 500.80 Mbit/s

95th percentile per-packet one-way delay: 202.787 ms

Loss rate: 3.92%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-25 11:38:31

End at: 2018-05-25 11:39:01

Local clock offset: -0.003 ms

Remote clock offset: 0.283 ms

# Below is generated by plot.py at 2018-05-25 13:57:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 520.05 Mbit/s

95th percentile per-packet one-way delay: 200.924 ms

Loss rate: 2.17%

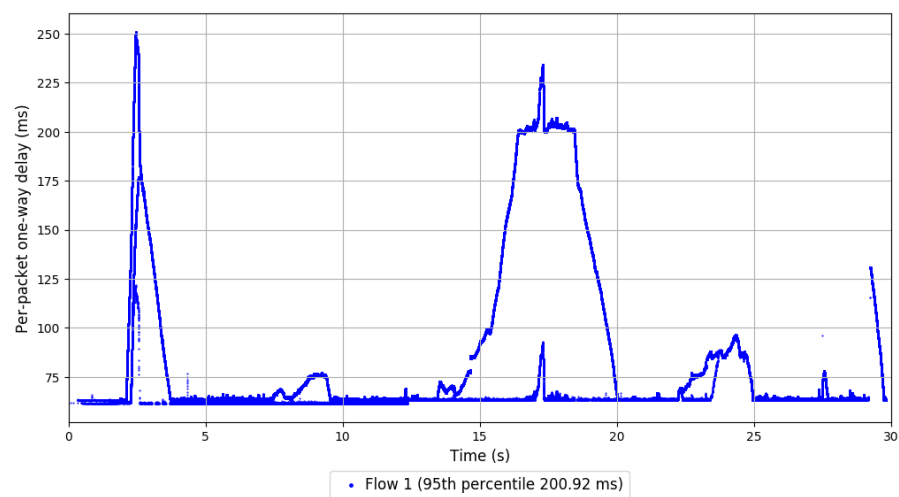
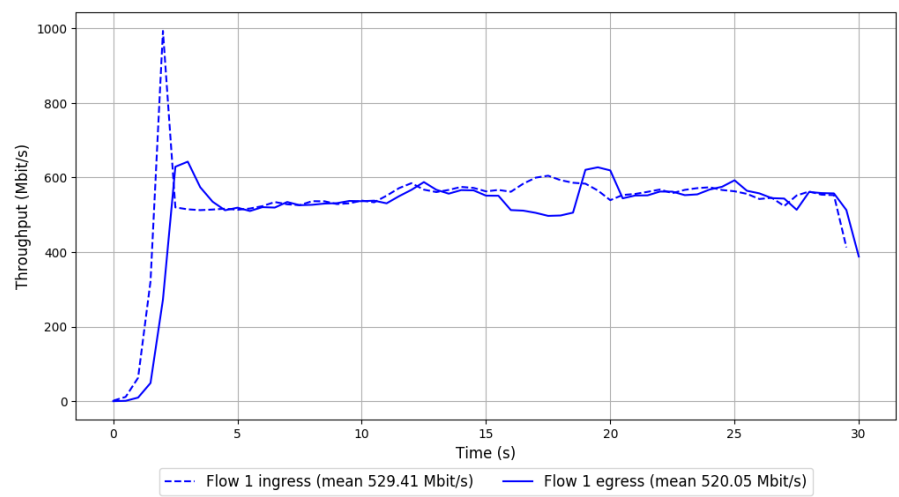
-- Flow 1:

Average throughput: 520.05 Mbit/s

95th percentile per-packet one-way delay: 200.924 ms

Loss rate: 2.17%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-25 11:59:02

End at: 2018-05-25 11:59:32

Local clock offset: 0.022 ms

Remote clock offset: 0.115 ms

# Below is generated by plot.py at 2018-05-25 13:58:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 525.64 Mbit/s

95th percentile per-packet one-way delay: 109.355 ms

Loss rate: 1.11%

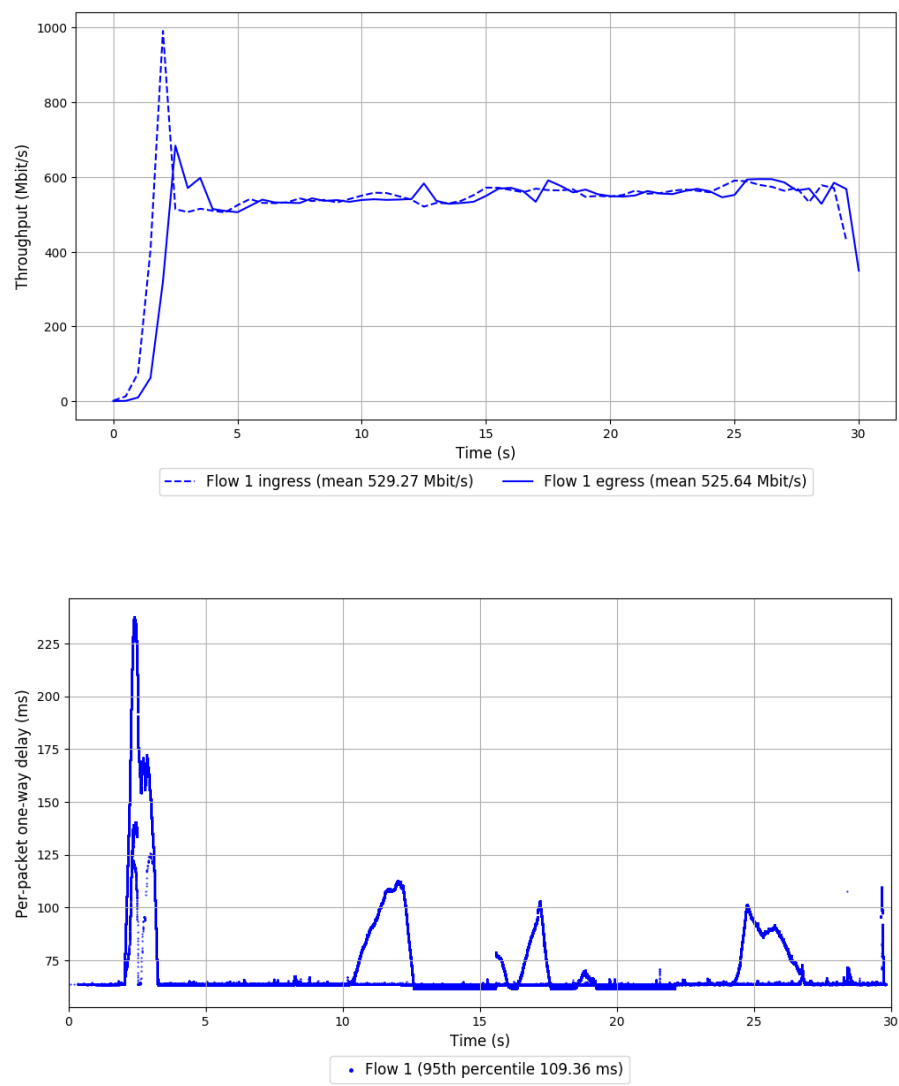
-- Flow 1:

Average throughput: 525.64 Mbit/s

95th percentile per-packet one-way delay: 109.355 ms

Loss rate: 1.11%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-25 12:19:26

End at: 2018-05-25 12:19:56

Local clock offset: -0.117 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-05-25 13:58:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 531.91 Mbit/s

95th percentile per-packet one-way delay: 115.530 ms

Loss rate: 1.09%

-- Flow 1:

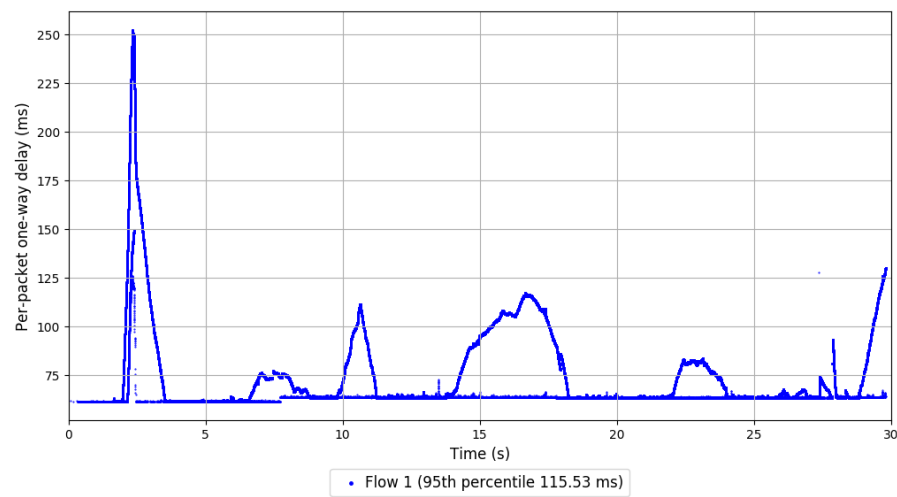
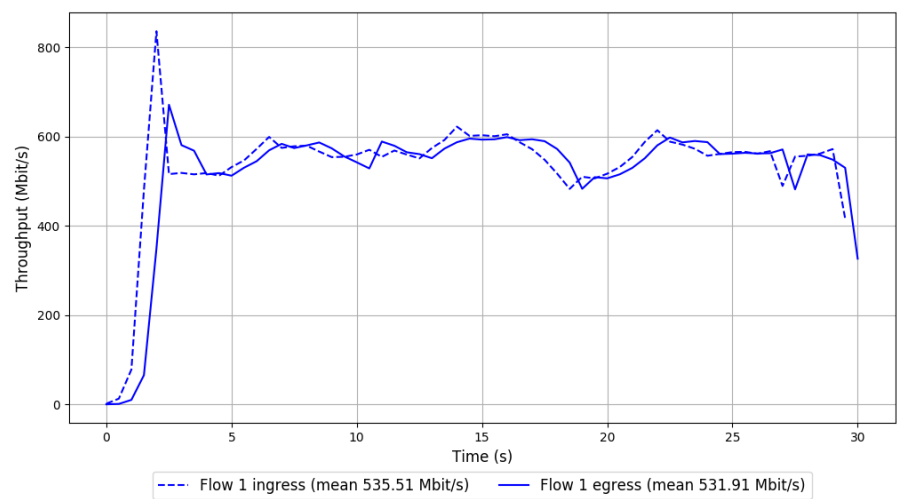
Average throughput: 531.91 Mbit/s

95th percentile per-packet one-way delay: 115.530 ms

Loss rate: 1.09%



Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-25 12:39:46

End at: 2018-05-25 12:40:16

Local clock offset: -0.138 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2018-05-25 13:58:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 532.74 Mbit/s

95th percentile per-packet one-way delay: 175.690 ms

Loss rate: 1.00%

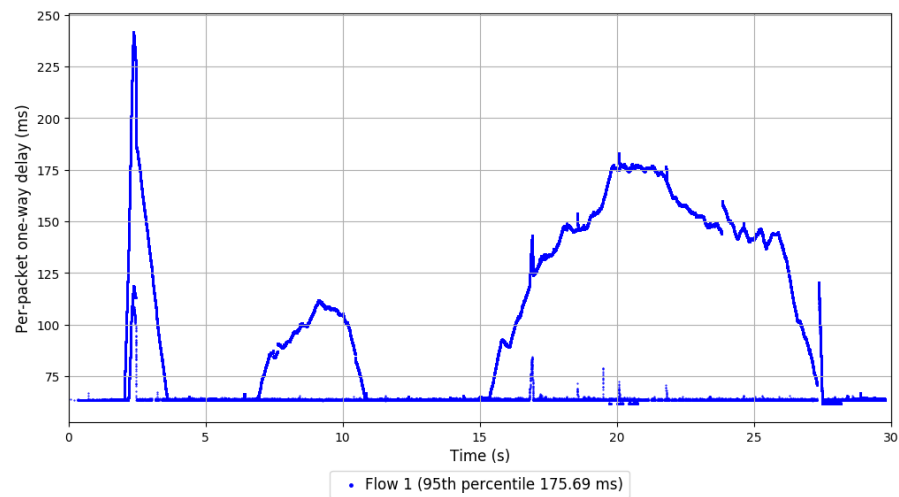
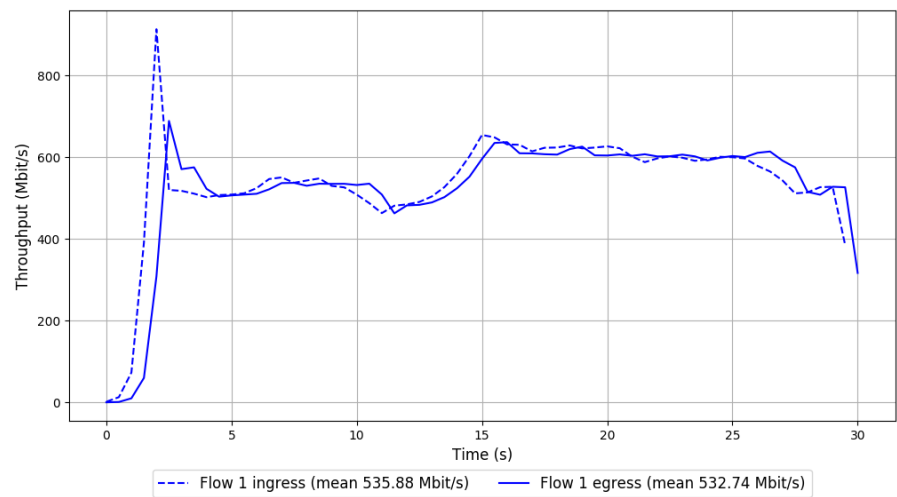
-- Flow 1:

Average throughput: 532.74 Mbit/s

95th percentile per-packet one-way delay: 175.690 ms

Loss rate: 1.00%

Run 10: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2018-05-25 09:33:49

End at: 2018-05-25 09:34:19

Local clock offset: -0.102 ms

Remote clock offset: 0.285 ms

# Below is generated by plot.py at 2018-05-25 13:58:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 196.44 Mbit/s

95th percentile per-packet one-way delay: 63.315 ms

Loss rate: 0.50%

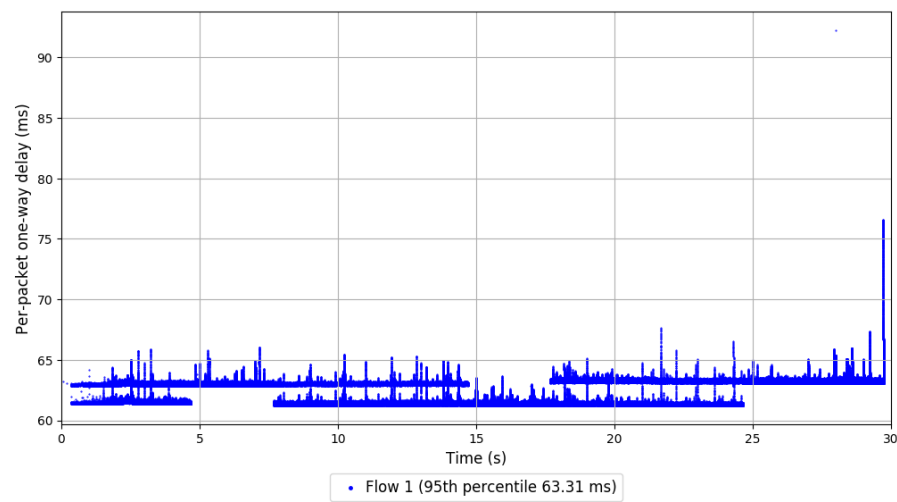
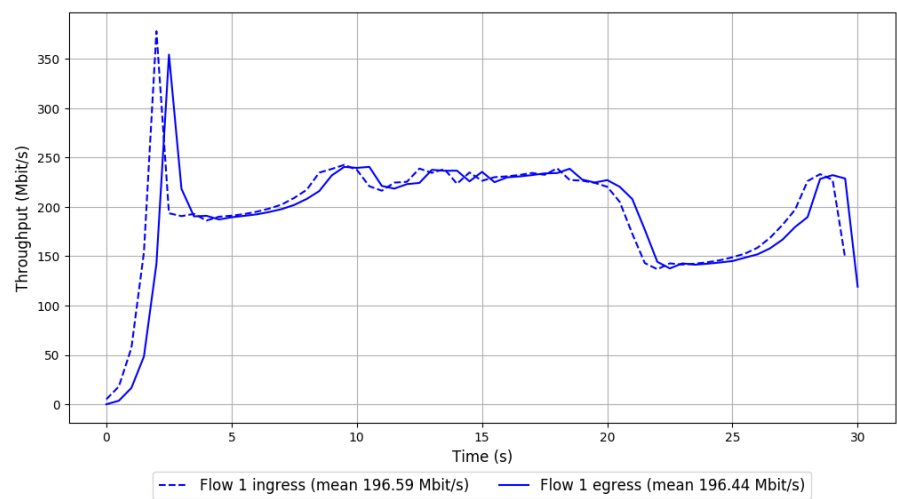
-- Flow 1:

Average throughput: 196.44 Mbit/s

95th percentile per-packet one-way delay: 63.315 ms

Loss rate: 0.50%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2018-05-25 09:54:14

End at: 2018-05-25 09:54:44

Local clock offset: -0.026 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2018-05-25 13:58:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.73 Mbit/s

95th percentile per-packet one-way delay: 167.037 ms

Loss rate: 2.79%

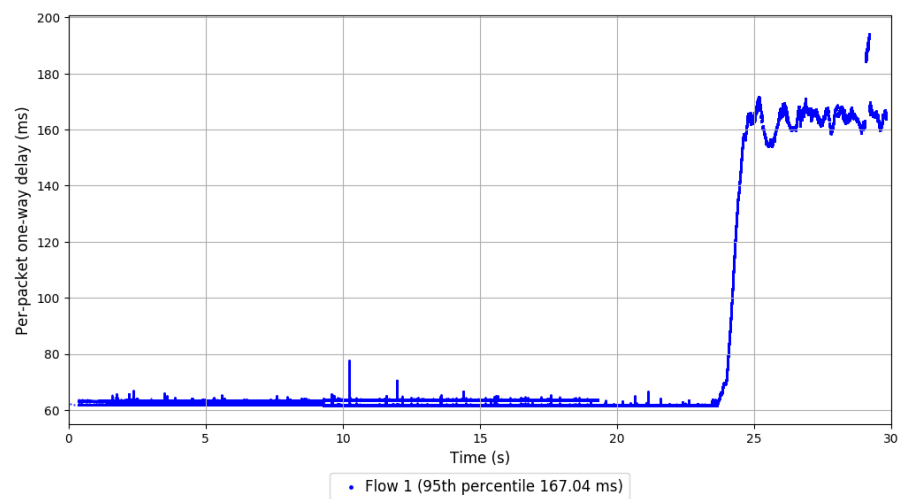
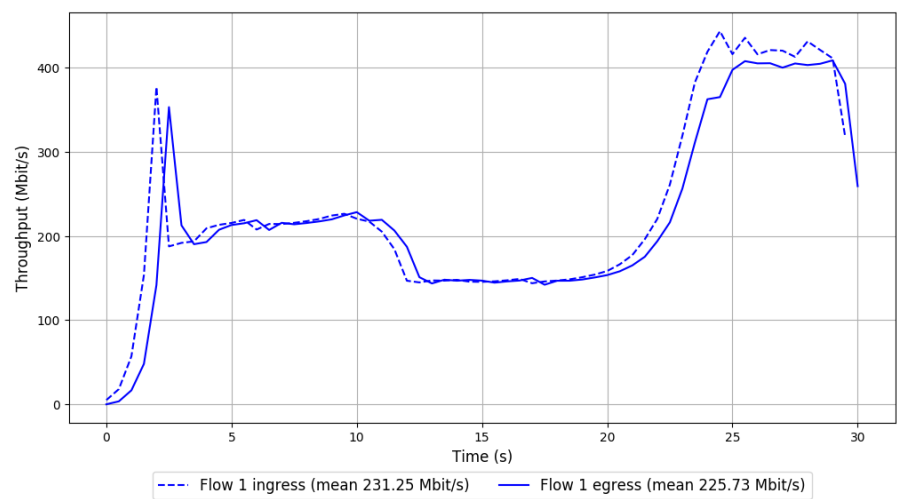
-- Flow 1:

Average throughput: 225.73 Mbit/s

95th percentile per-packet one-way delay: 167.037 ms

Loss rate: 2.79%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-05-25 10:14:53

End at: 2018-05-25 10:15:23

Local clock offset: 0.029 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2018-05-25 13:58:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.89 Mbit/s

95th percentile per-packet one-way delay: 164.376 ms

Loss rate: 0.75%

-- Flow 1:

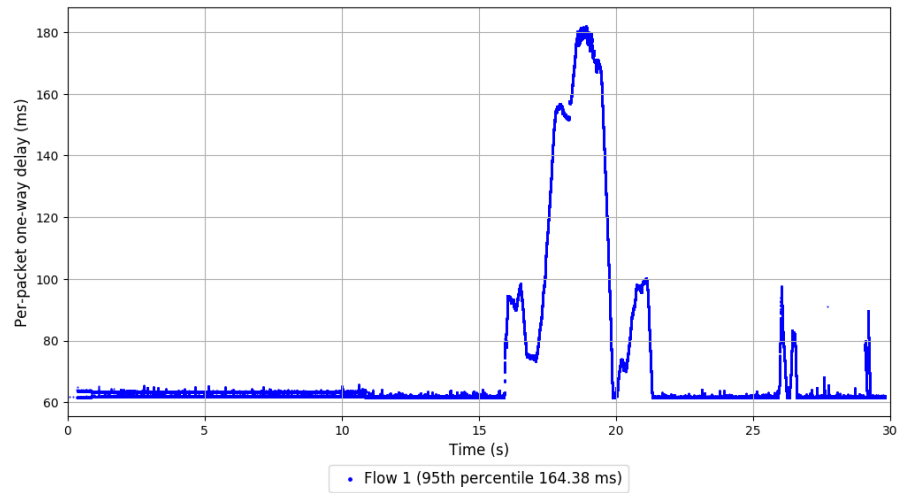
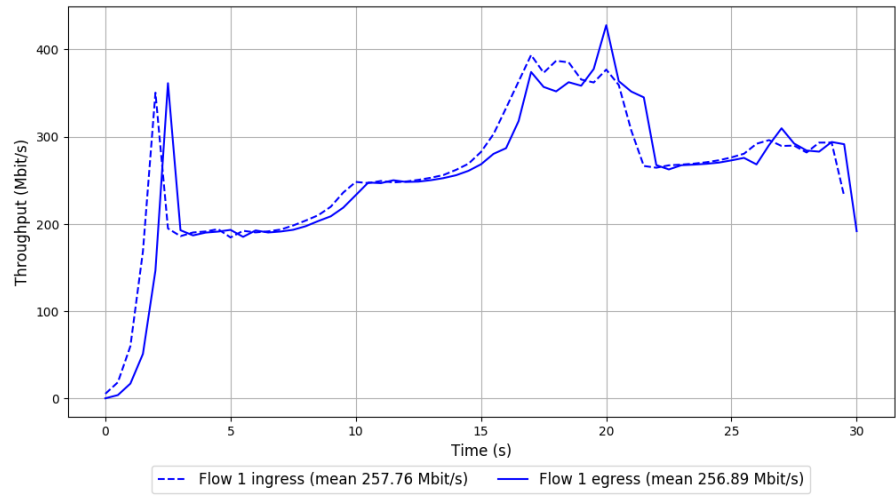
Average throughput: 256.89 Mbit/s

95th percentile per-packet one-way delay: 164.376 ms

Loss rate: 0.75%



### Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-25 10:35:22

End at: 2018-05-25 10:35:52

Local clock offset: -0.016 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2018-05-25 13:59:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.08 Mbit/s

95th percentile per-packet one-way delay: 192.603 ms

Loss rate: 6.18%

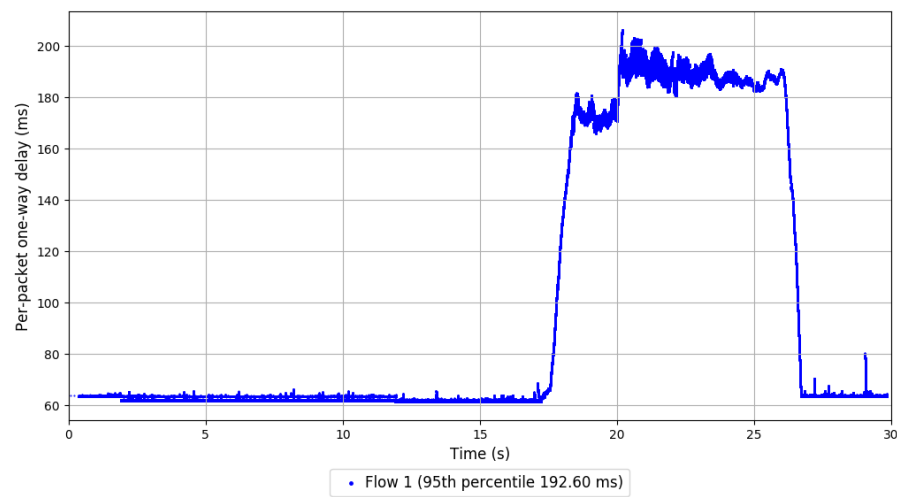
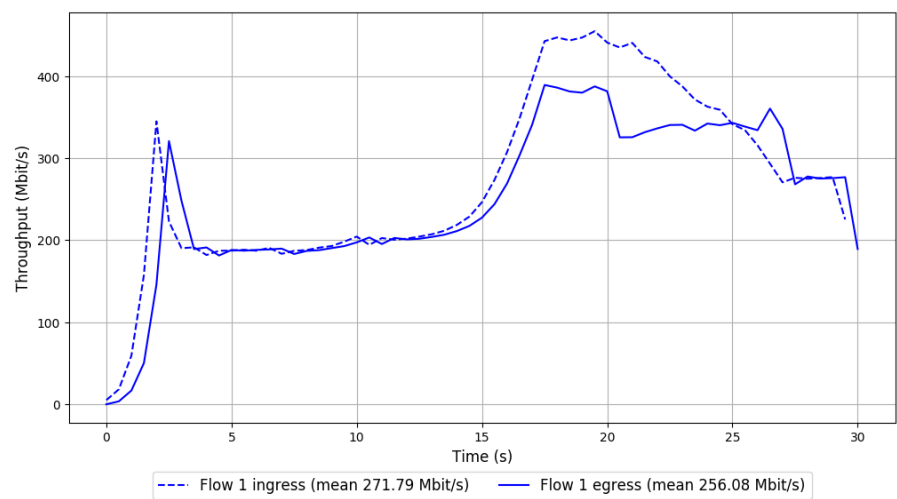
-- Flow 1:

Average throughput: 256.08 Mbit/s

95th percentile per-packet one-way delay: 192.603 ms

Loss rate: 6.18%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-25 10:55:47

End at: 2018-05-25 10:56:17

Local clock offset: -0.007 ms

Remote clock offset: 0.284 ms

# Below is generated by plot.py at 2018-05-25 14:06:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 253.41 Mbit/s

95th percentile per-packet one-way delay: 198.708 ms

Loss rate: 1.58%

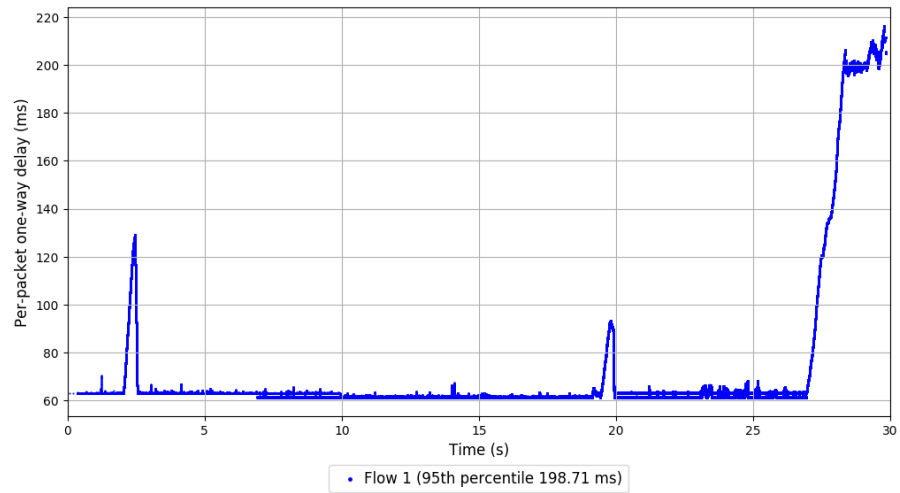
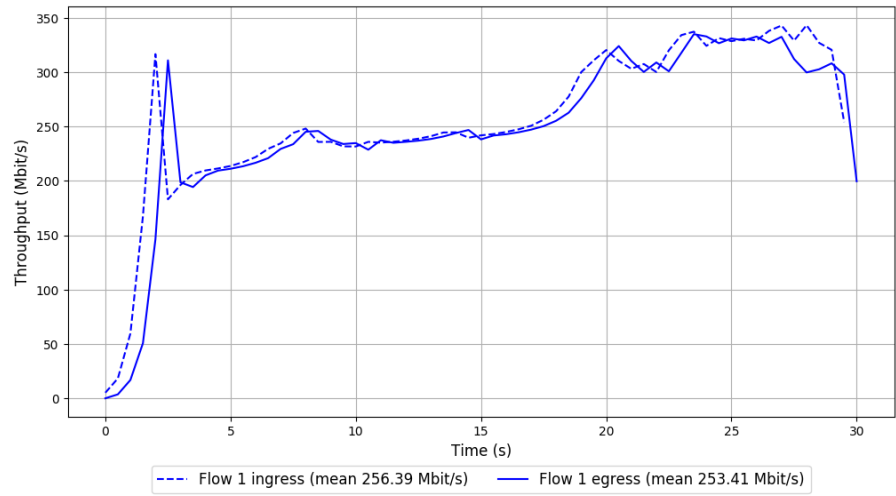
-- Flow 1:

Average throughput: 253.41 Mbit/s

95th percentile per-packet one-way delay: 198.708 ms

Loss rate: 1.58%

### Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-25 11:16:23

End at: 2018-05-25 11:16:53

Local clock offset: -0.003 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2018-05-25 14:09:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 297.49 Mbit/s

95th percentile per-packet one-way delay: 240.530 ms

Loss rate: 0.99%

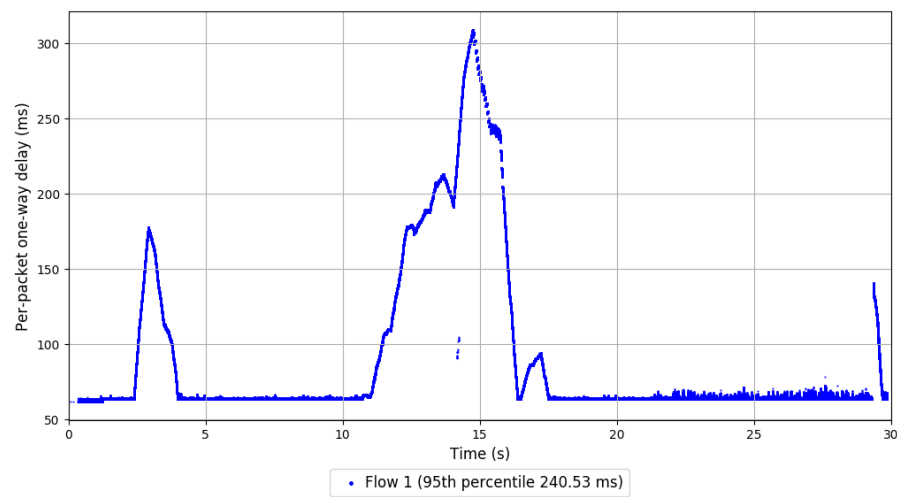
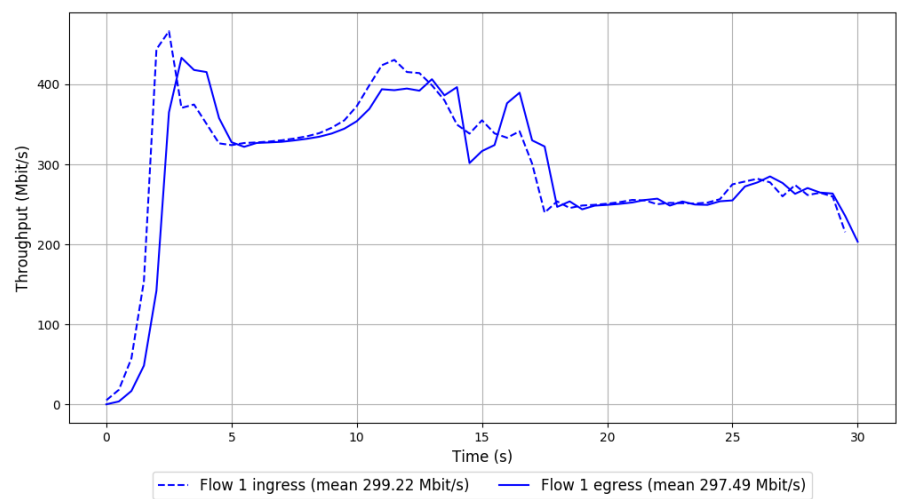
-- Flow 1:

Average throughput: 297.49 Mbit/s

95th percentile per-packet one-way delay: 240.530 ms

Loss rate: 0.99%

Run 6: Report of PCC-Expr — Data Link



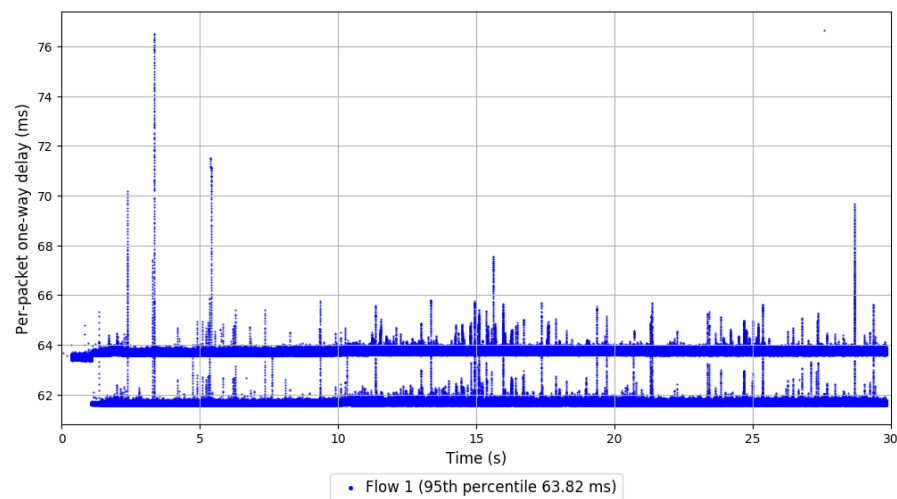
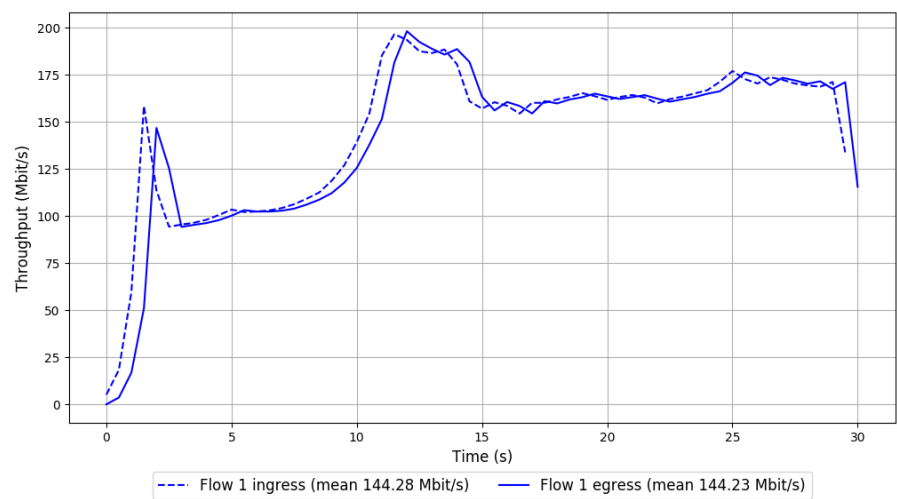
Run 7: Statistics of PCC-Expr

Start at: 2018-05-25 11:37:13  
End at: 2018-05-25 11:37:43  
Local clock offset: 0.009 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2018-05-25 14:09:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 144.23 Mbit/s  
95th percentile per-packet one-way delay: 63.821 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 144.23 Mbit/s  
95th percentile per-packet one-way delay: 63.821 ms  
Loss rate: 0.46%



Run 7: Report of PCC-Expr — Data Link

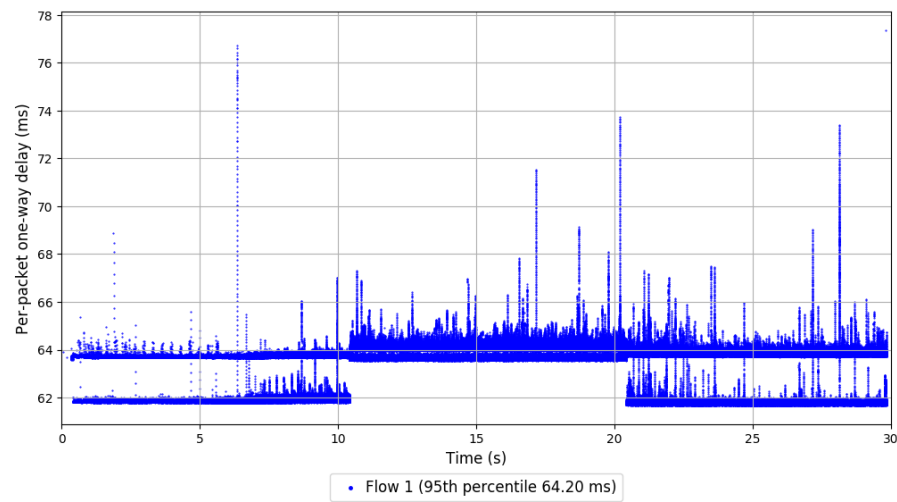
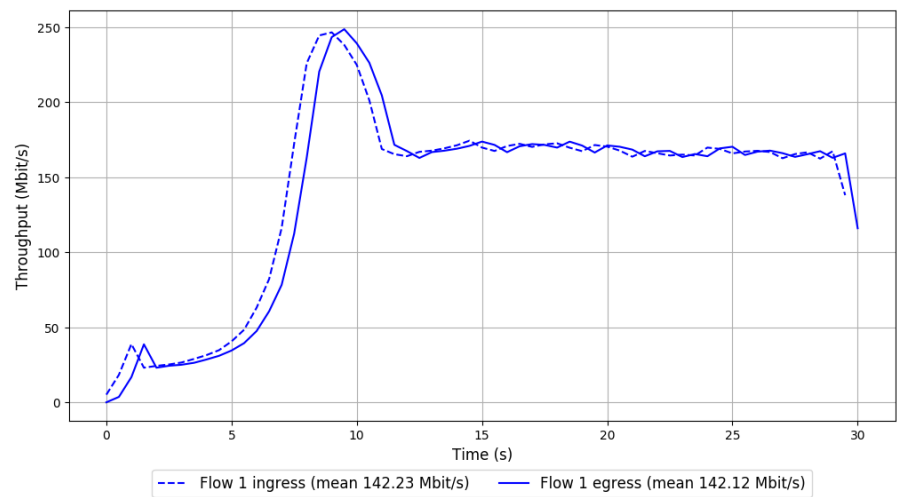


Run 8: Statistics of PCC-Expr

Start at: 2018-05-25 11:57:43  
End at: 2018-05-25 11:58:13  
Local clock offset: -0.015 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2018-05-25 14:09:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 142.12 Mbit/s  
95th percentile per-packet one-way delay: 64.200 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 142.12 Mbit/s  
95th percentile per-packet one-way delay: 64.200 ms  
Loss rate: 0.50%

Run 8: Report of PCC-Expr — Data Link

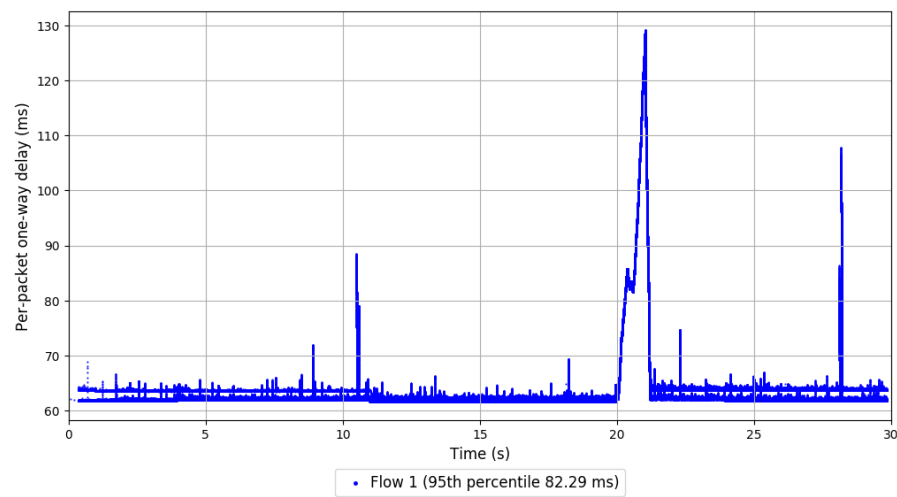
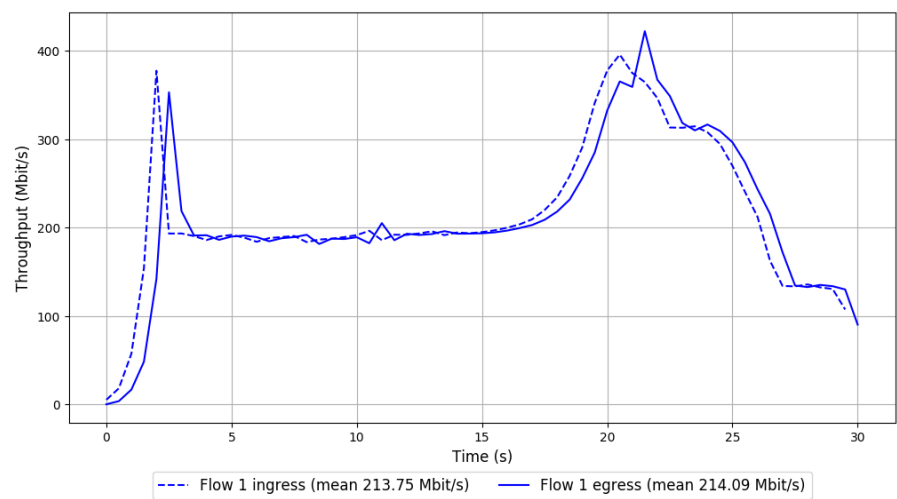


Run 9: Statistics of PCC-Expr

Start at: 2018-05-25 12:18:03  
End at: 2018-05-25 12:18:33  
Local clock offset: -0.062 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2018-05-25 14:09:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 214.09 Mbit/s  
95th percentile per-packet one-way delay: 82.290 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 214.09 Mbit/s  
95th percentile per-packet one-way delay: 82.290 ms  
Loss rate: 0.27%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-25 12:38:20

End at: 2018-05-25 12:38:50

Local clock offset: -0.108 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2018-05-25 14:09:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 230.02 Mbit/s

95th percentile per-packet one-way delay: 100.934 ms

Loss rate: 0.53%

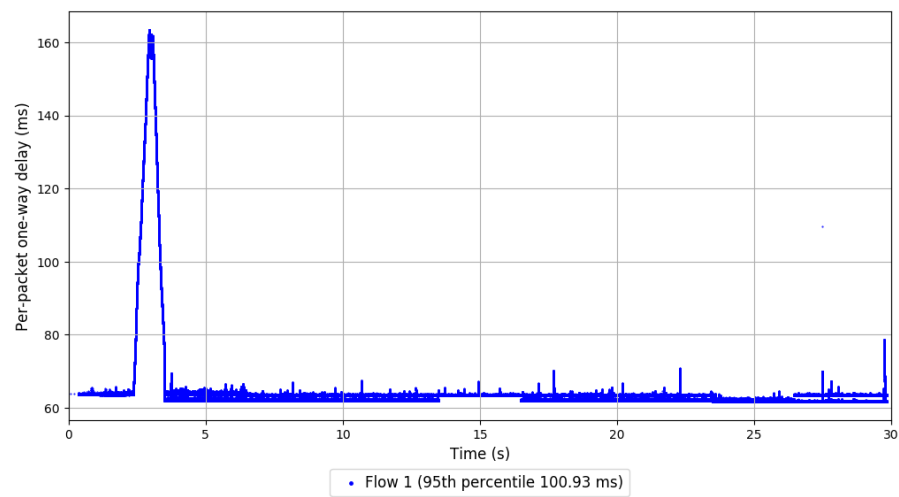
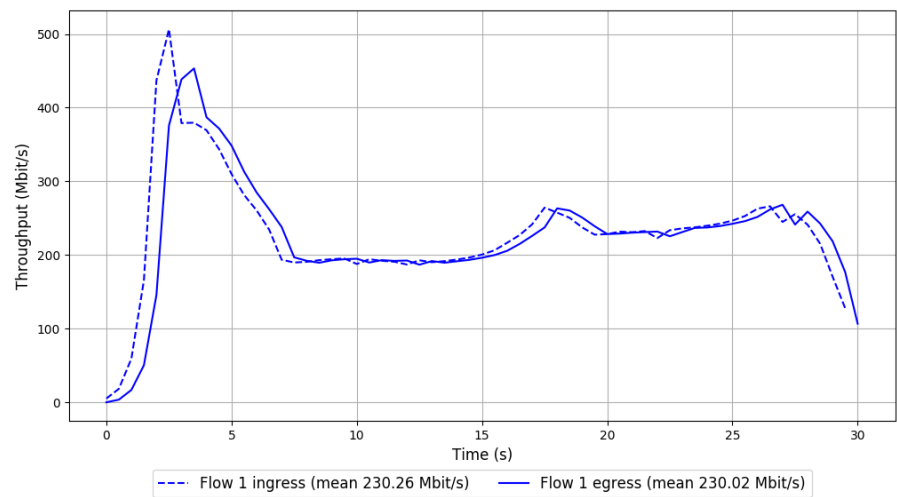
-- Flow 1:

Average throughput: 230.02 Mbit/s

95th percentile per-packet one-way delay: 100.934 ms

Loss rate: 0.53%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-05-25 09:16:19

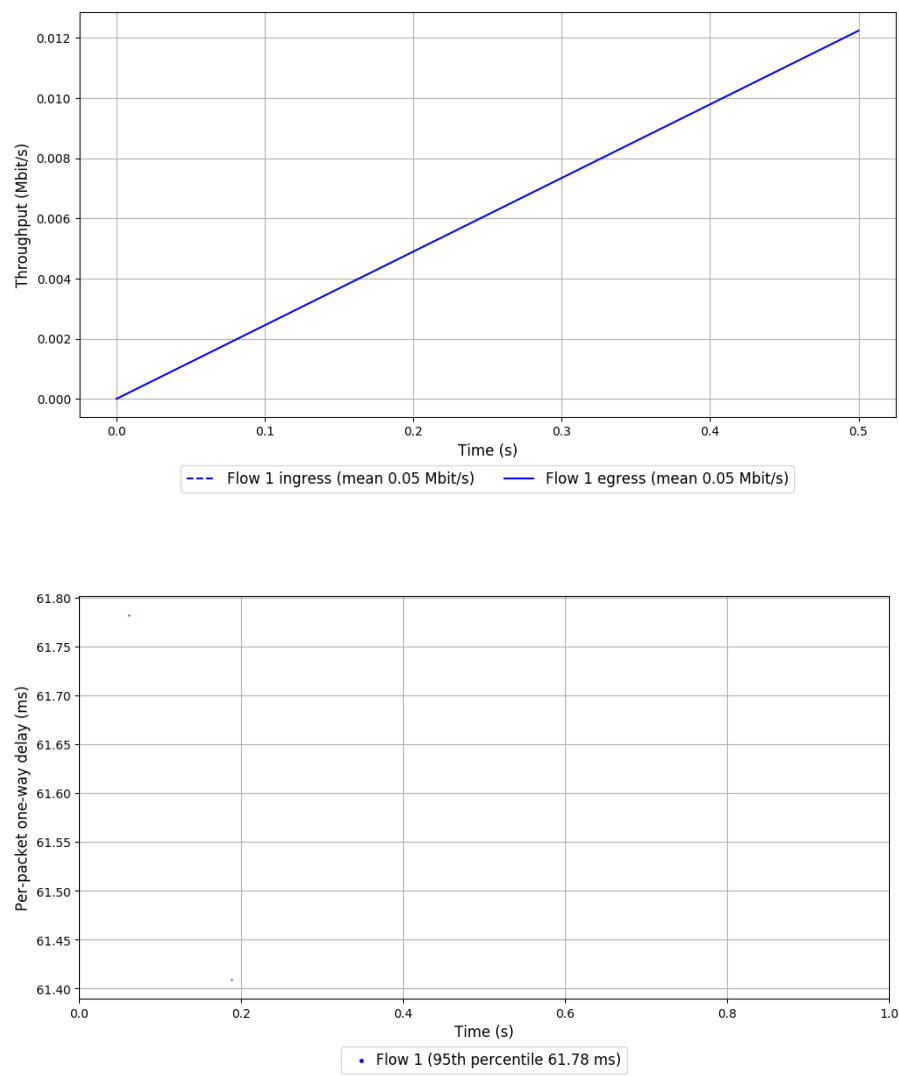
End at: 2018-05-25 09:16:49

Local clock offset: -0.072 ms

Remote clock offset: 0.292 ms



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-25 09:36:37

End at: 2018-05-25 09:37:07

Local clock offset: -0.073 ms

Remote clock offset: 0.075 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 63.416 ms

Loss rate: 0.62%

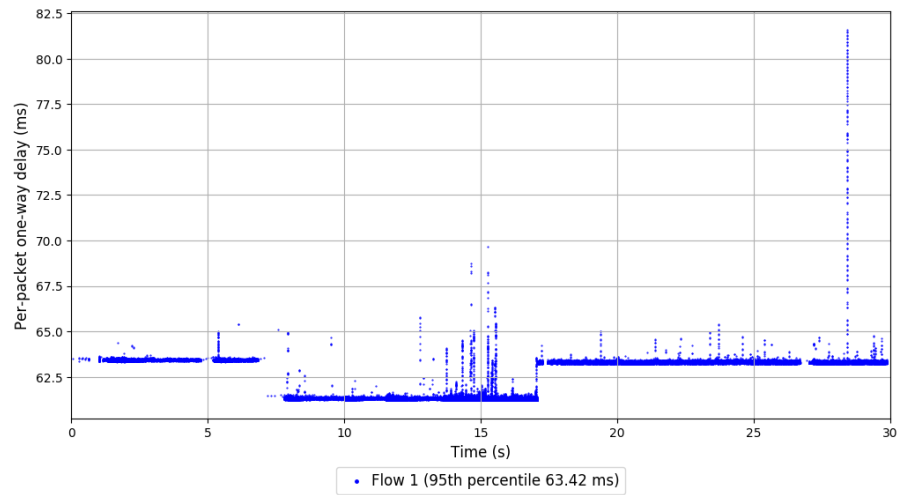
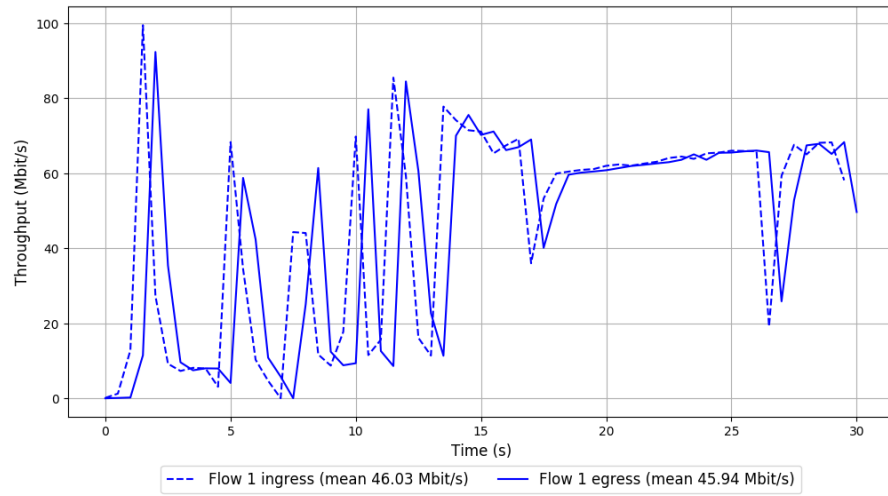
-- Flow 1:

Average throughput: 45.94 Mbit/s

95th percentile per-packet one-way delay: 63.416 ms

Loss rate: 0.62%

## Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

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

End at: 2018-05-25 09:57:34

Local clock offset: -0.046 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 63.103 ms

Loss rate: 0.62%

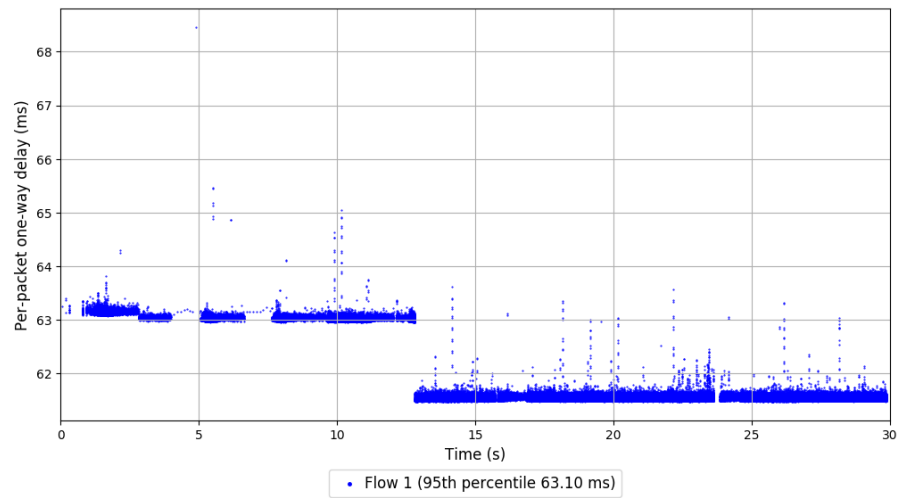
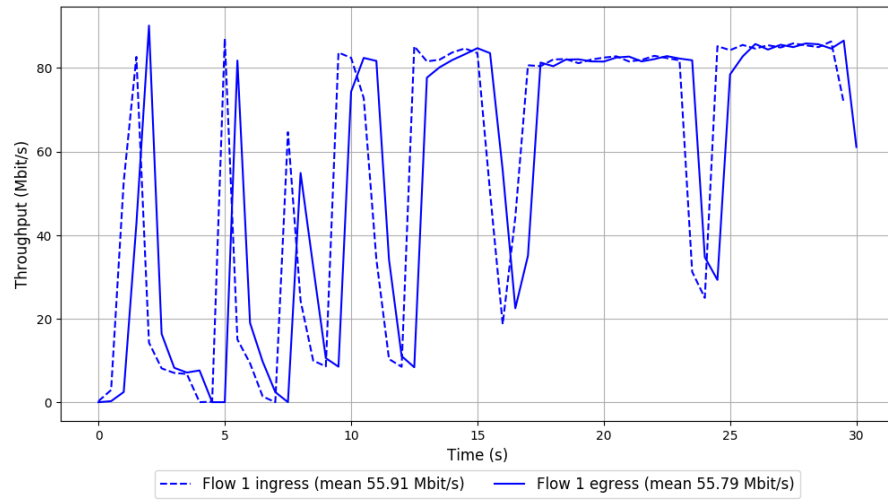
-- Flow 1:

Average throughput: 55.79 Mbit/s

95th percentile per-packet one-way delay: 63.103 ms

Loss rate: 0.62%

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



Run 4: Statistics of QUIC Cubic

Start at: 2018-05-25 10:17:46

End at: 2018-05-25 10:18:16

Local clock offset: 0.014 ms

Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 63.716 ms

Loss rate: 0.64%

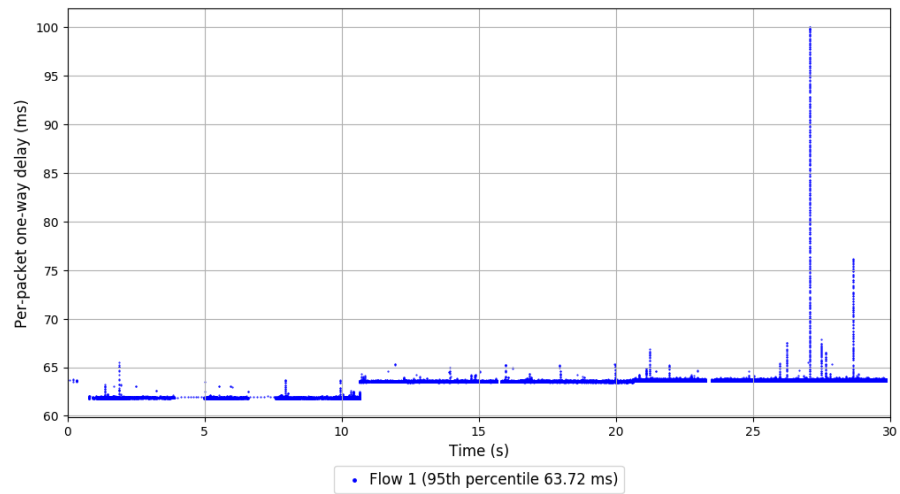
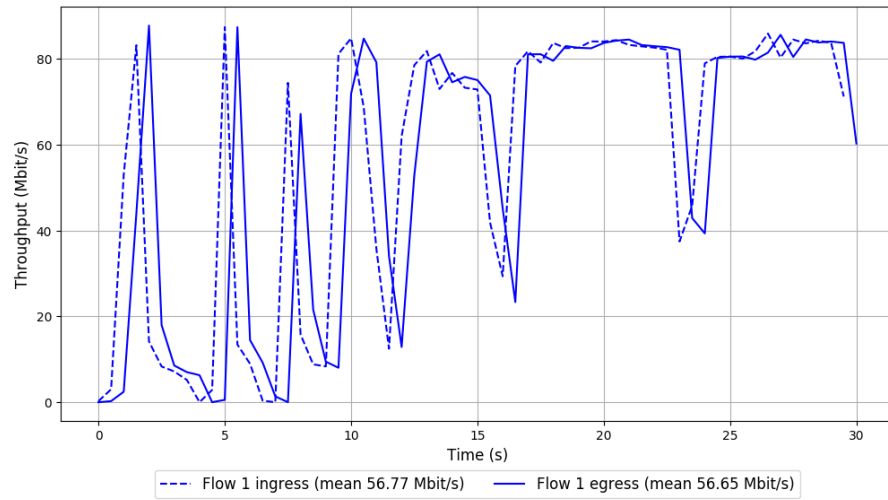
-- Flow 1:

Average throughput: 56.65 Mbit/s

95th percentile per-packet one-way delay: 63.716 ms

Loss rate: 0.64%

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



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-25 10:38:17

End at: 2018-05-25 10:38:47

Local clock offset: 0.01 ms

Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.66%

-- Flow 1:

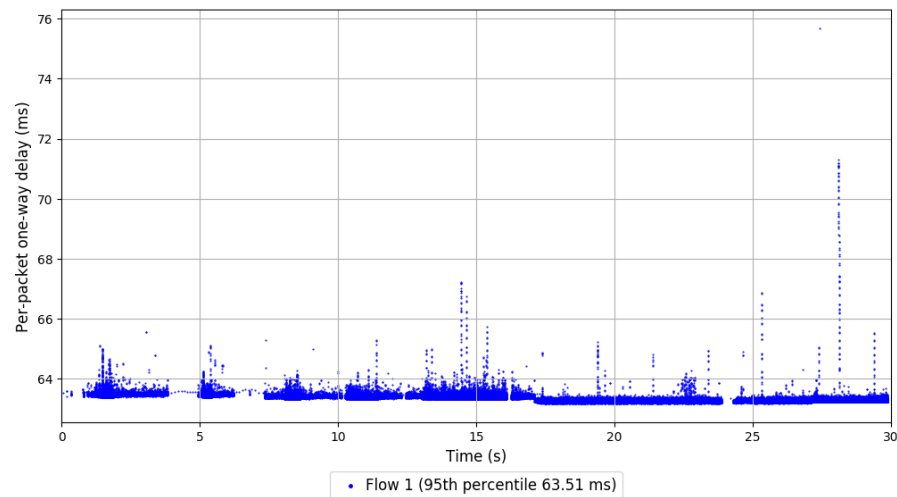
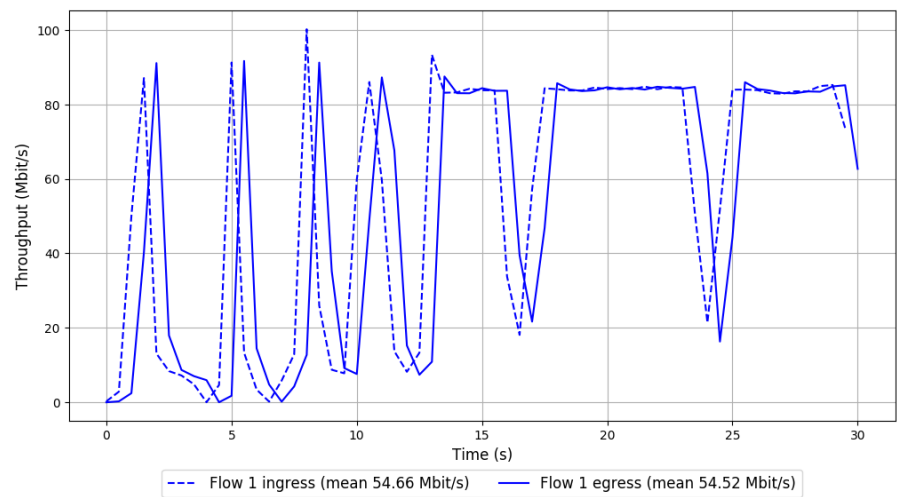
Average throughput: 54.52 Mbit/s

95th percentile per-packet one-way delay: 63.514 ms

Loss rate: 0.66%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-05-25 10:58:37

End at: 2018-05-25 10:59:07

Local clock offset: 0.023 ms

Remote clock offset: 0.119 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 63.354 ms

Loss rate: 0.65%

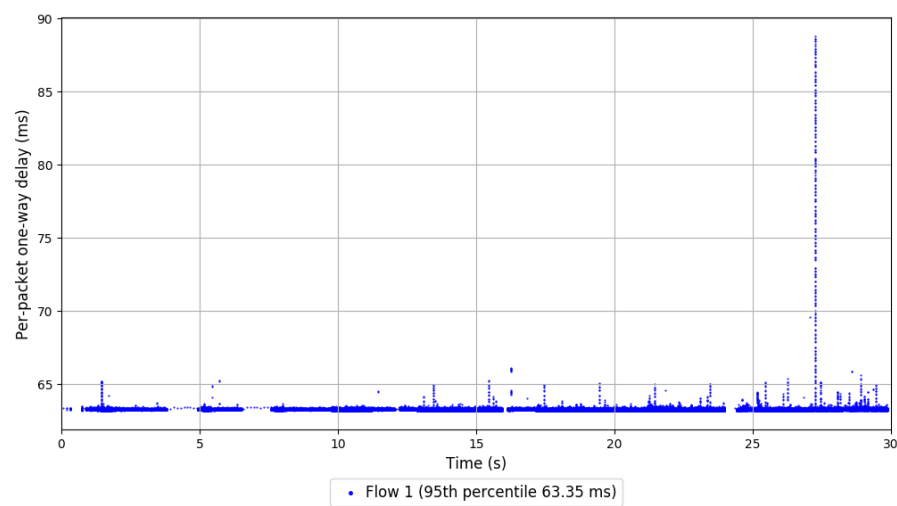
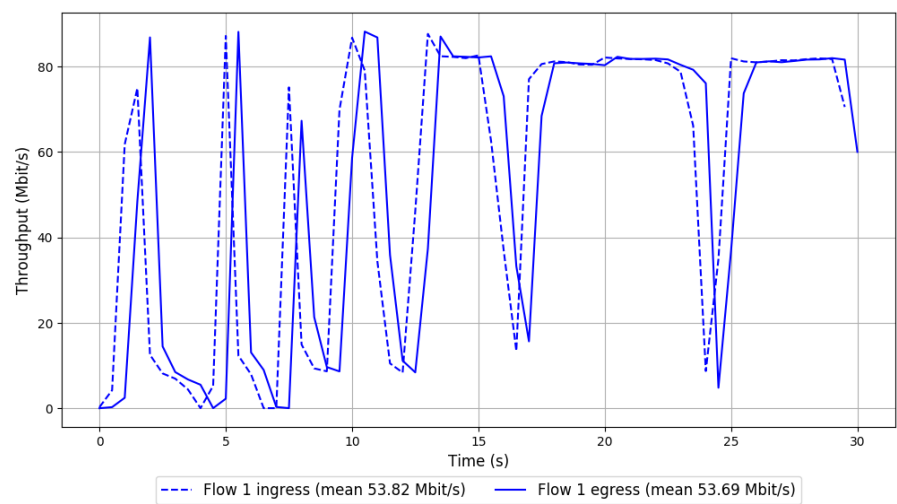
-- Flow 1:

Average throughput: 53.69 Mbit/s

95th percentile per-packet one-way delay: 63.354 ms

Loss rate: 0.65%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-25 11:19:19

End at: 2018-05-25 11:19:49

Local clock offset: 0.057 ms

Remote clock offset: 0.136 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.67%

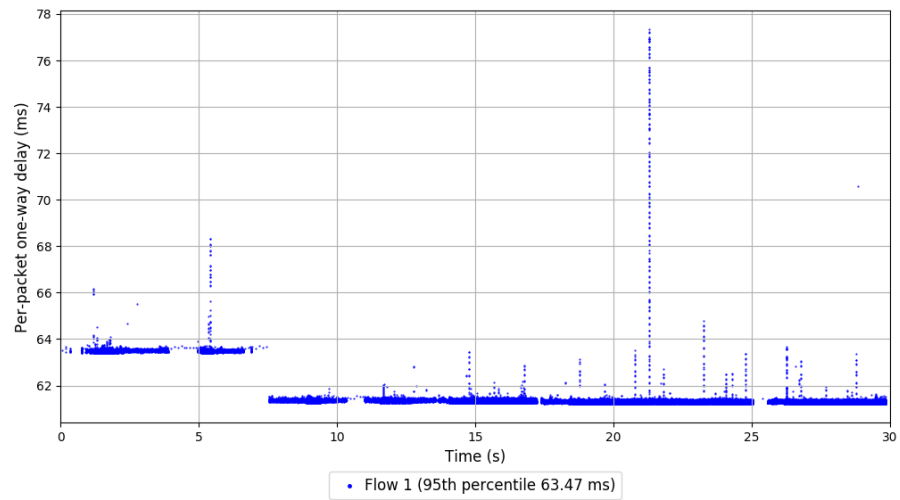
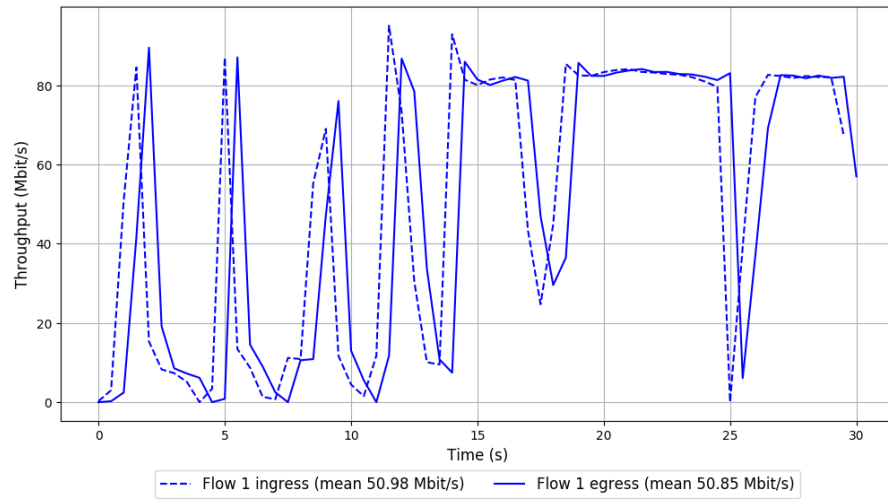
-- Flow 1:

Average throughput: 50.85 Mbit/s

95th percentile per-packet one-way delay: 63.473 ms

Loss rate: 0.67%

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



Run 8: Statistics of QUIC Cubic

Start at: 2018-05-25 11:39:56

End at: 2018-05-25 11:40:26

Local clock offset: 0.031 ms

Remote clock offset: -0.272 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.63%

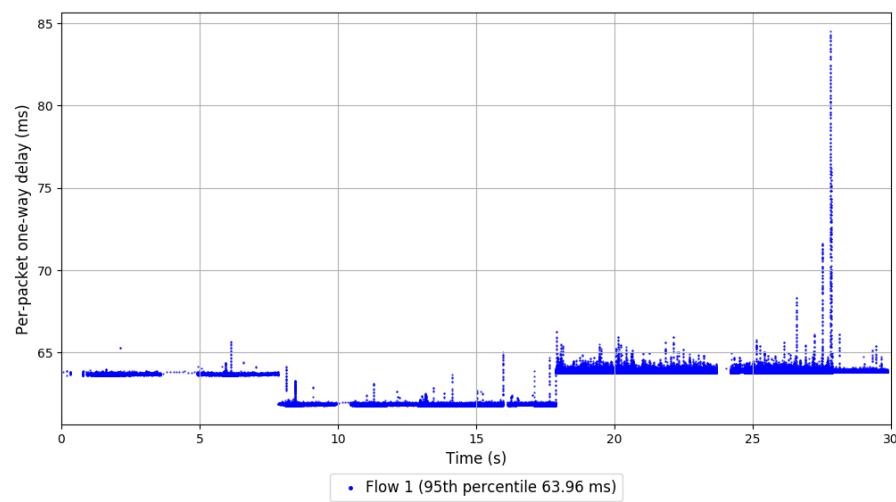
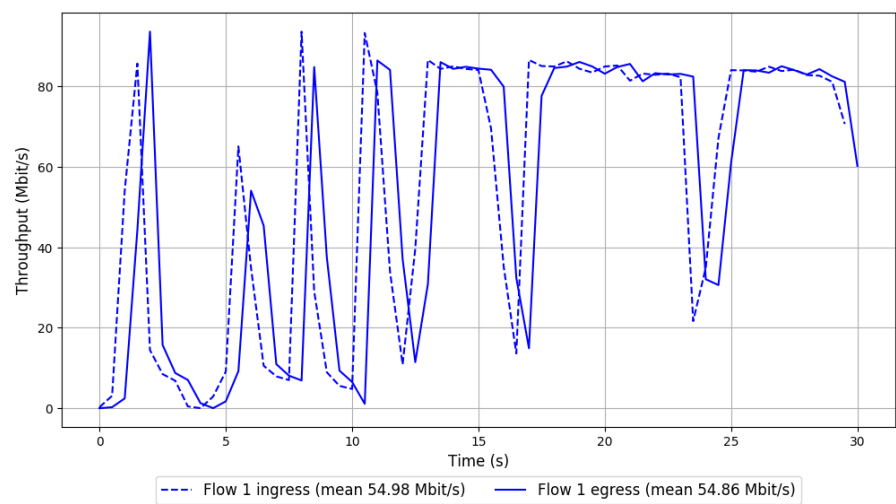
-- Flow 1:

Average throughput: 54.86 Mbit/s

95th percentile per-packet one-way delay: 63.961 ms

Loss rate: 0.63%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-25 12:00:27

End at: 2018-05-25 12:00:57

Local clock offset: -0.036 ms

Remote clock offset: 0.467 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 63.279 ms

Loss rate: 0.71%

-- Flow 1:

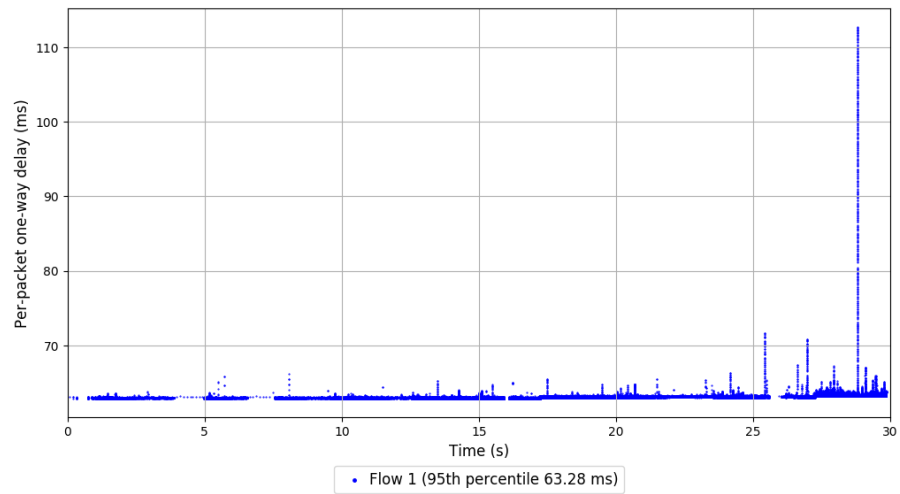
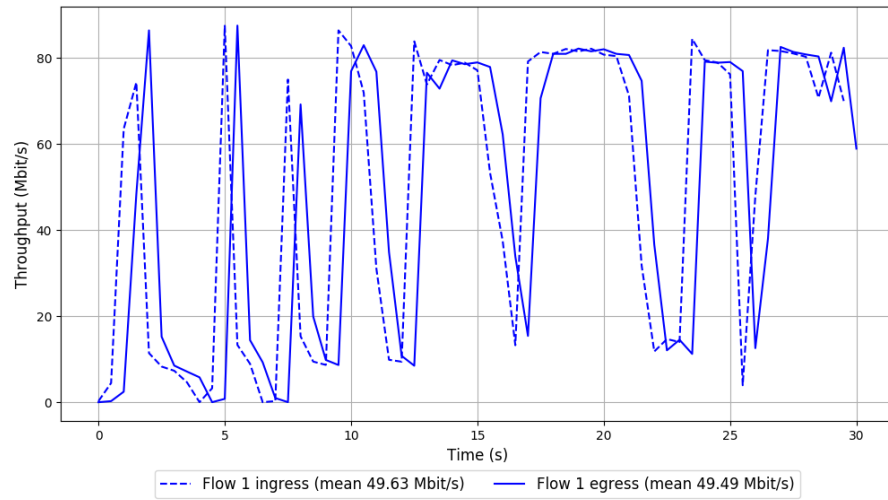
Average throughput: 49.49 Mbit/s

95th percentile per-packet one-way delay: 63.279 ms

Loss rate: 0.71%



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

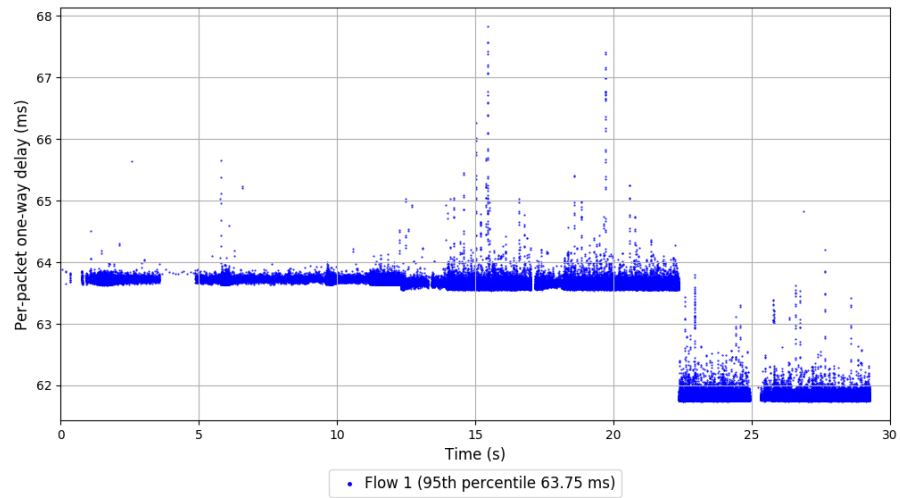
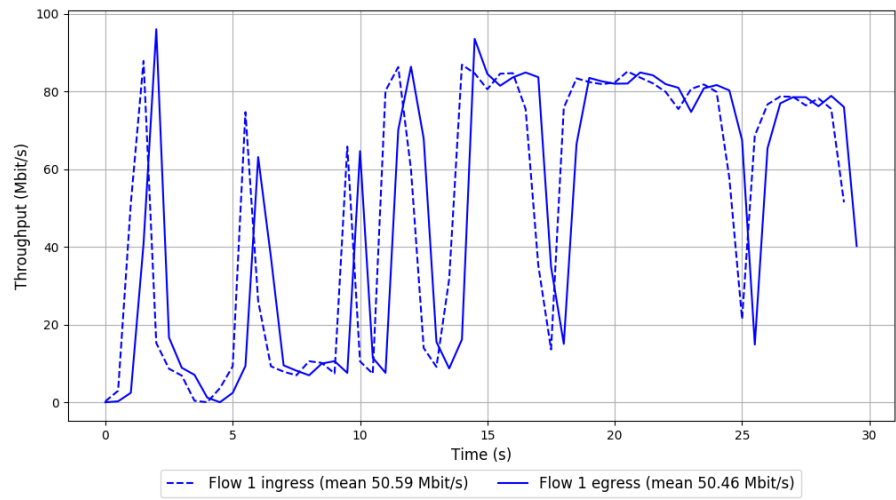


Run 10: Statistics of QUIC Cubic

Start at: 2018-05-25 12:20:51  
End at: 2018-05-25 12:21:21  
Local clock offset: -0.072 ms  
Remote clock offset: -0.189 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 50.46 Mbit/s  
95th percentile per-packet one-way delay: 63.752 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 50.46 Mbit/s  
95th percentile per-packet one-way delay: 63.752 ms  
Loss rate: 0.68%

### Run 10: Report of QUIC Cubic — Data Link

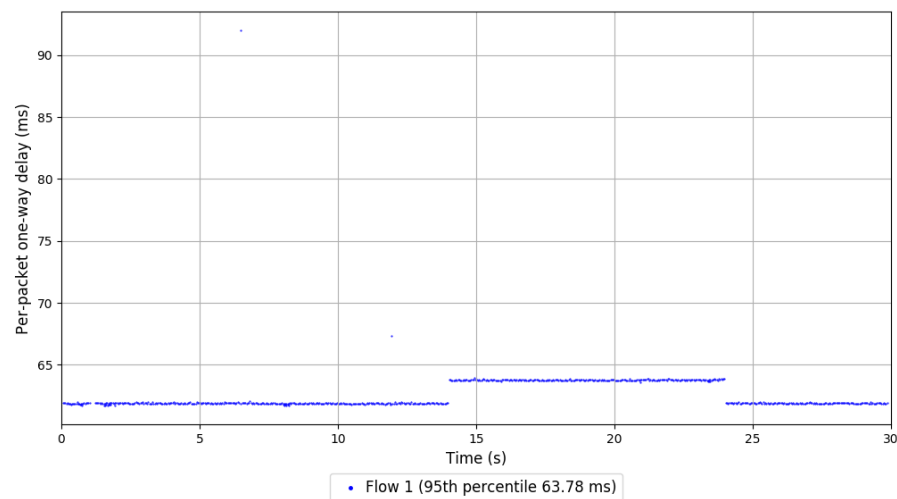
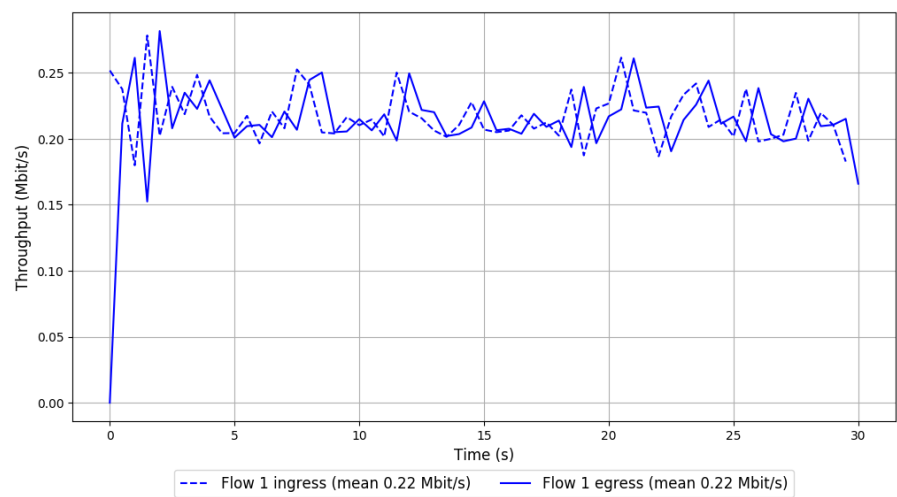


Run 1: Statistics of SCReAM

Start at: 2018-05-25 09:26:23  
End at: 2018-05-25 09:26:53  
Local clock offset: -0.065 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.784 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.784 ms  
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-05-25 09:46:54

End at: 2018-05-25 09:47:24

Local clock offset: -0.075 ms

Remote clock offset: 0.193 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.385 ms

Loss rate: 0.38%

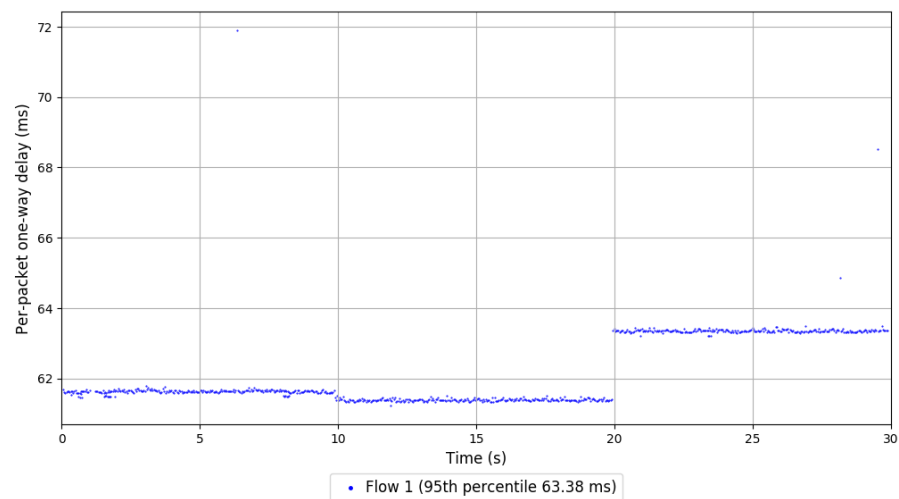
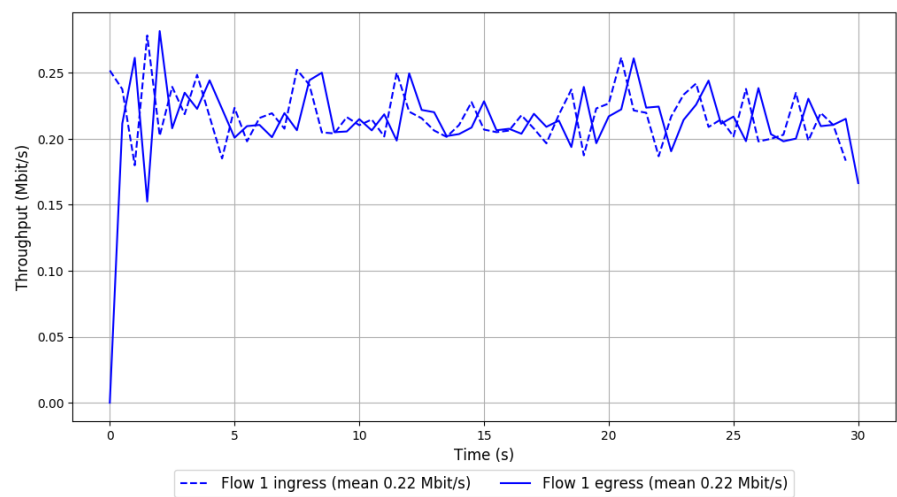
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.385 ms

Loss rate: 0.38%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2018-05-25 10:07:21

End at: 2018-05-25 10:07:51

Local clock offset: -0.001 ms

Remote clock offset: 0.089 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.38%

-- Flow 1:

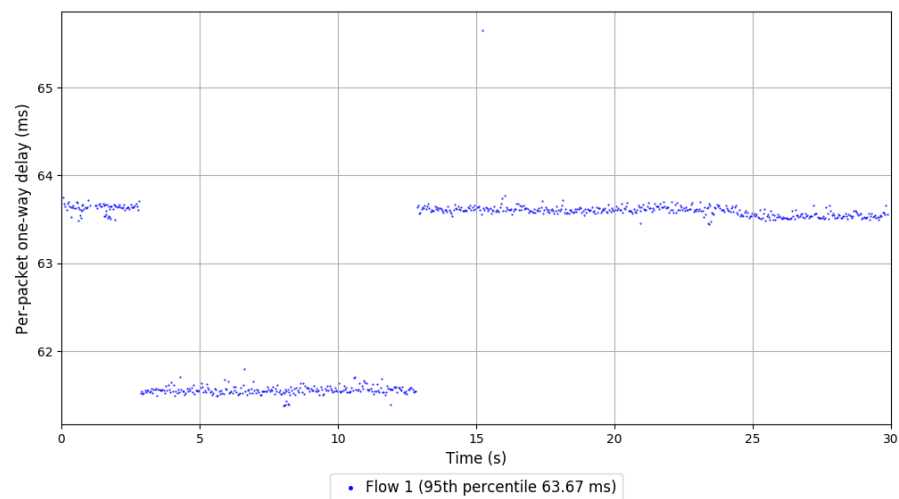
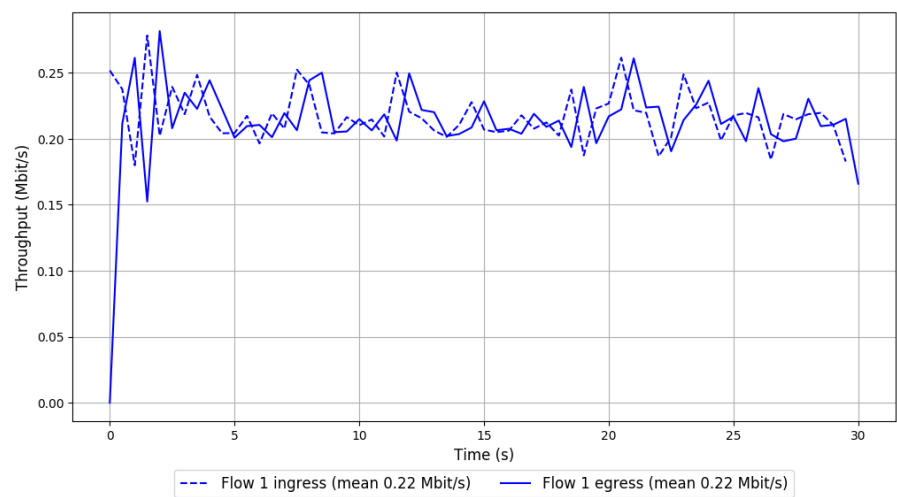
Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.669 ms

Loss rate: 0.38%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-05-25 10:27:55

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

Local clock offset: -0.004 ms

Remote clock offset: 0.156 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.38%

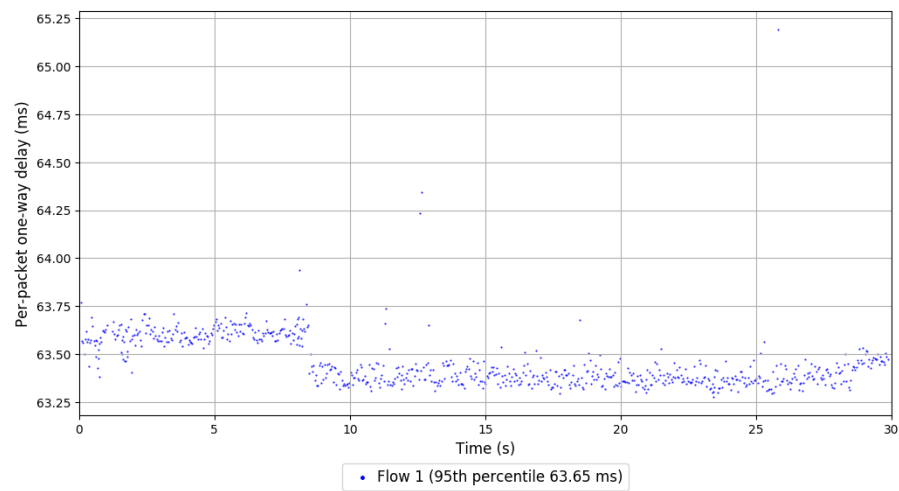
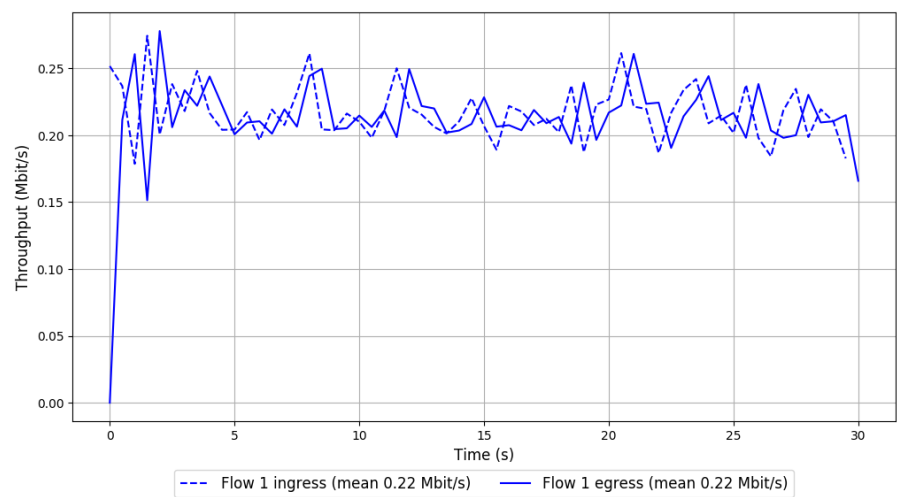
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.654 ms

Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

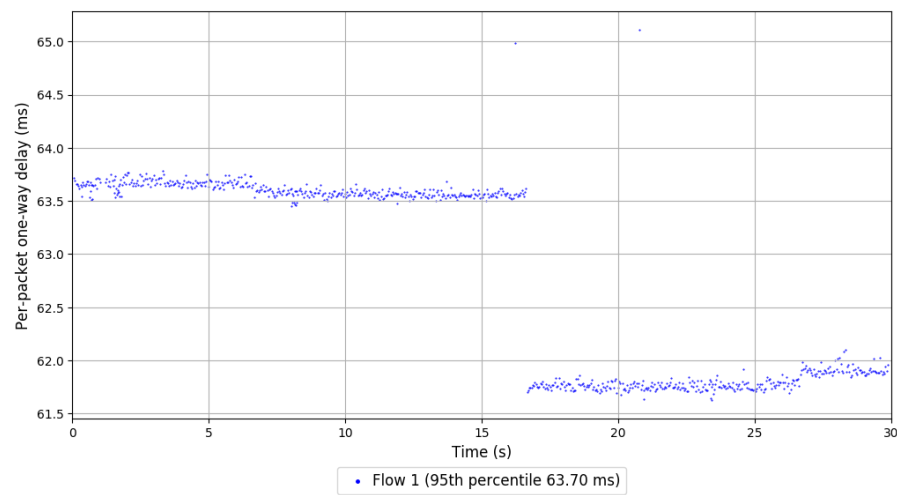
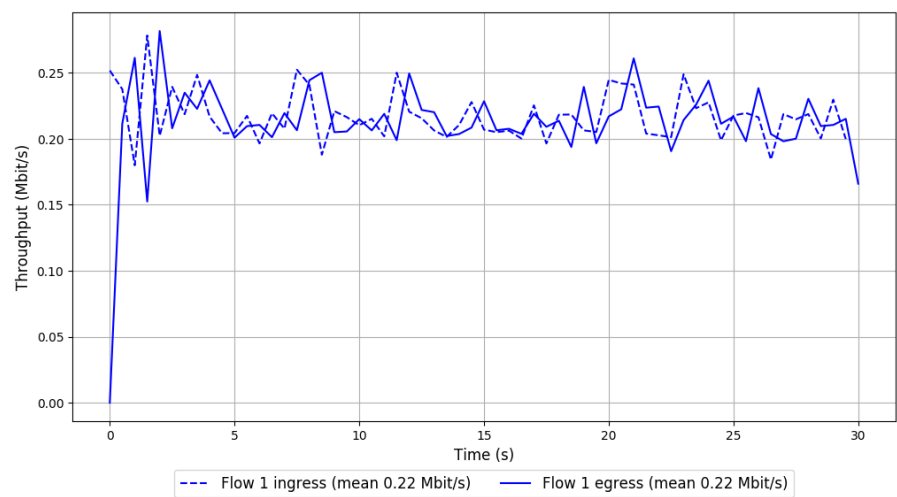


Run 5: Statistics of SCReAM

Start at: 2018-05-25 10:48:27  
End at: 2018-05-25 10:48:57  
Local clock offset: 0.008 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.699 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.699 ms  
Loss rate: 0.51%

Run 5: Report of SReAM — Data Link

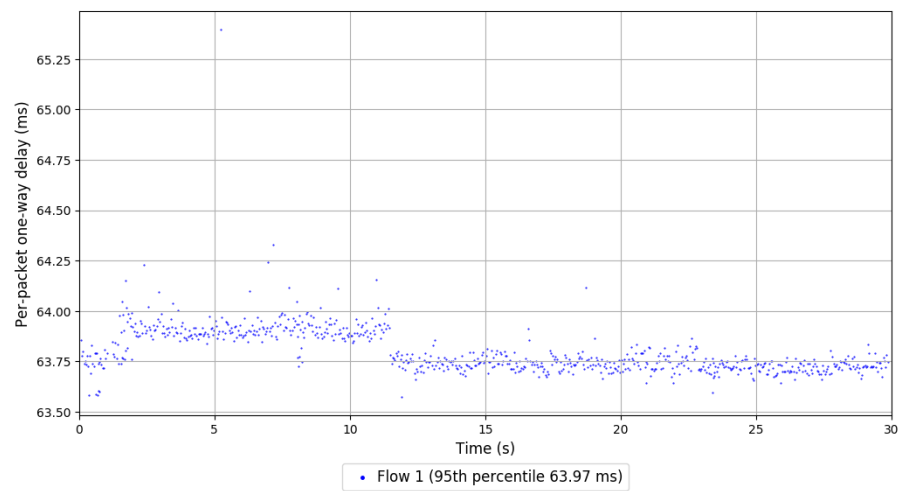
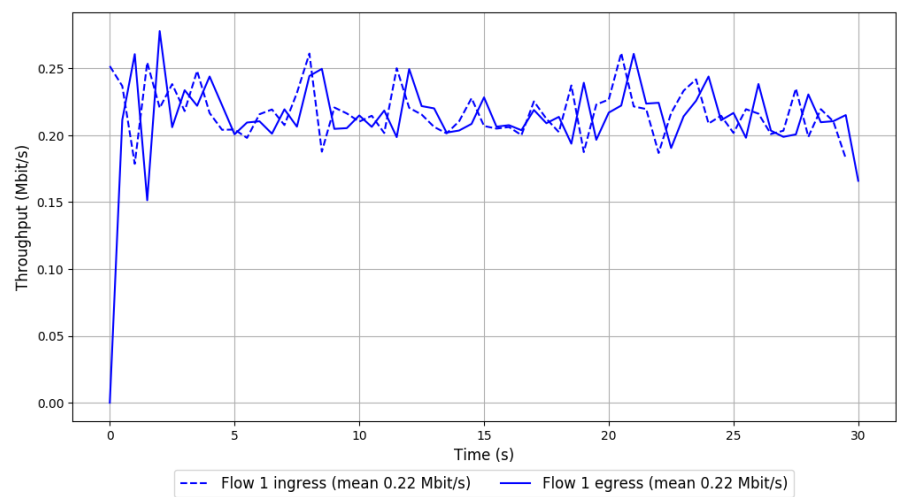


Run 6: Statistics of SCReAM

Start at: 2018-05-25 11:08:45  
End at: 2018-05-25 11:09:15  
Local clock offset: 0.028 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.966 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.966 ms  
Loss rate: 0.38%

Run 6: Report of SReAM — Data Link



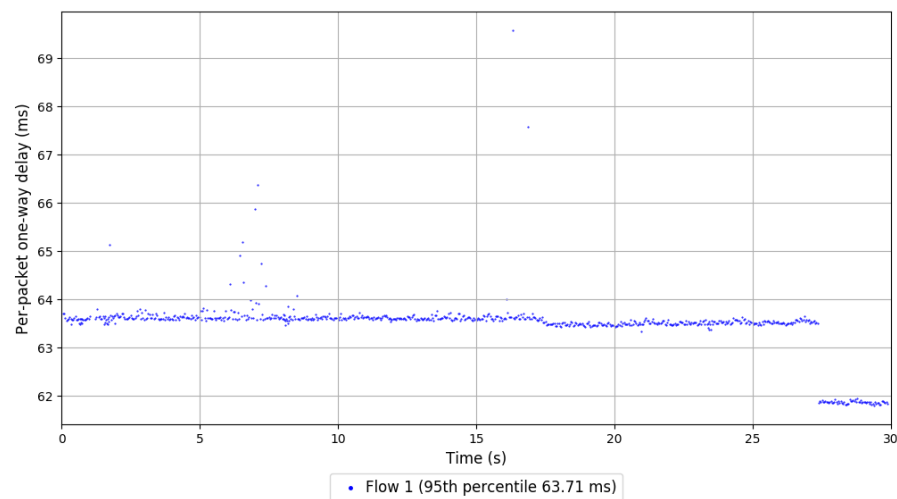
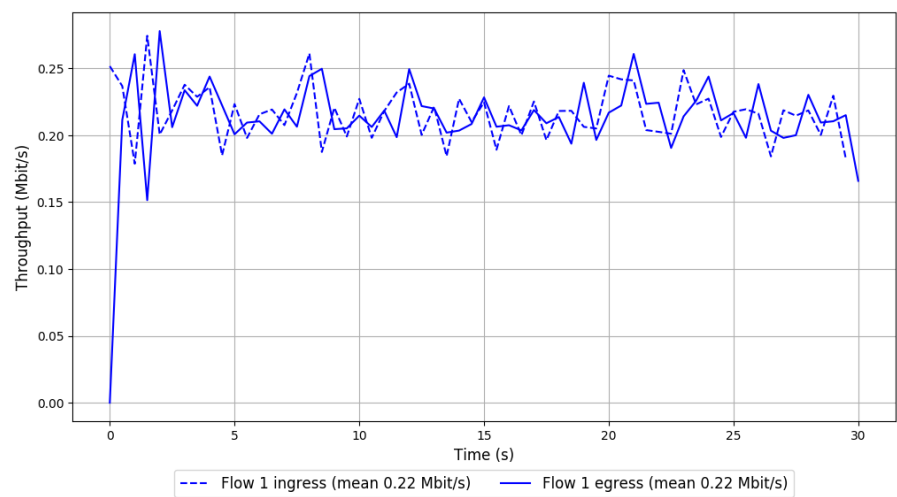
Run 7: Statistics of SReAM

Start at: 2018-05-25 11:29:36  
End at: 2018-05-25 11:30:07  
Local clock offset: 0.006 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.709 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.709 ms  
Loss rate: 0.38%



Run 7: Report of SReAM — Data Link

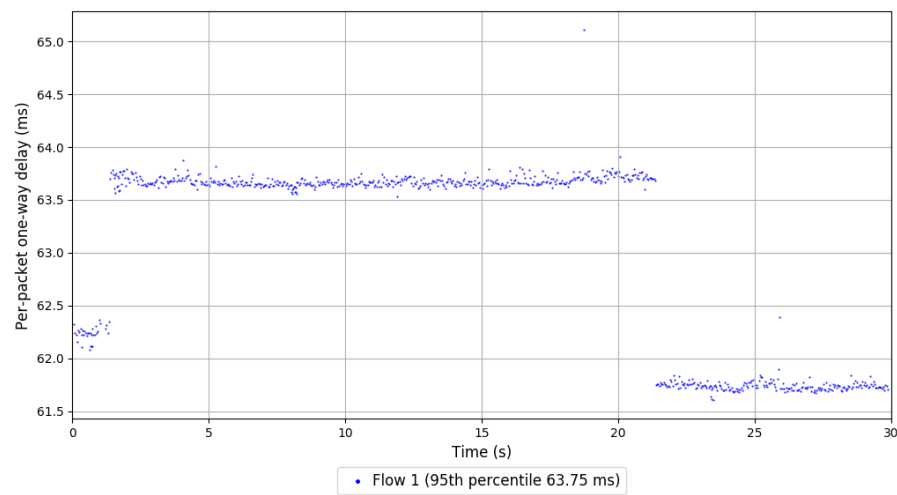
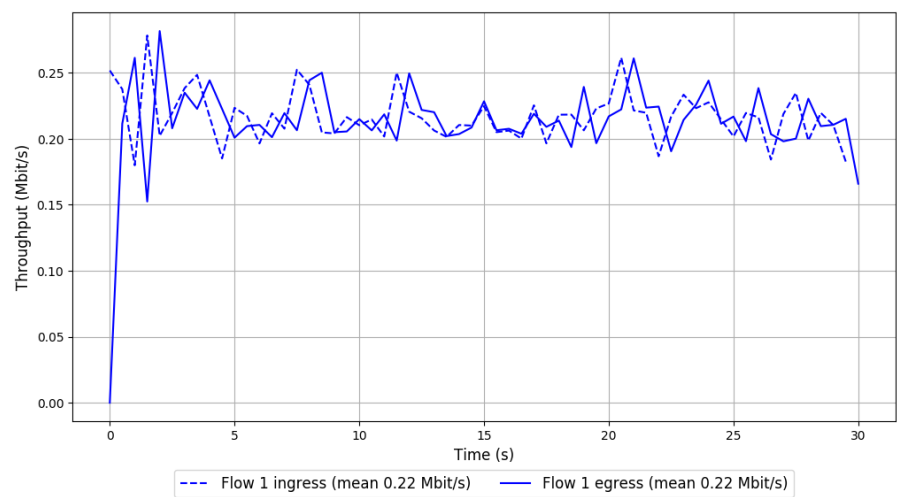


Run 8: Statistics of SCReAM

Start at: 2018-05-25 11:50:03  
End at: 2018-05-25 11:50:33  
Local clock offset: 0.007 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.753 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.753 ms  
Loss rate: 0.38%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

Start at: 2018-05-25 12:10:36

End at: 2018-05-25 12:11:06

Local clock offset: -0.041 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 0.38%

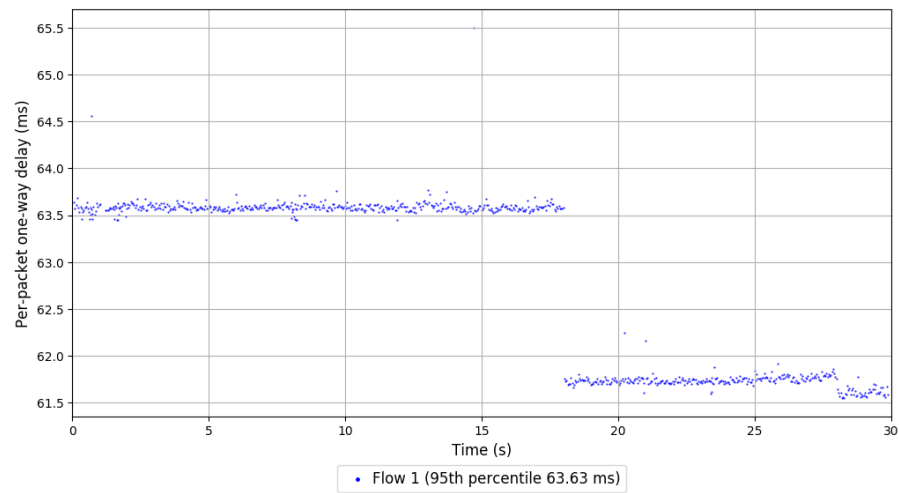
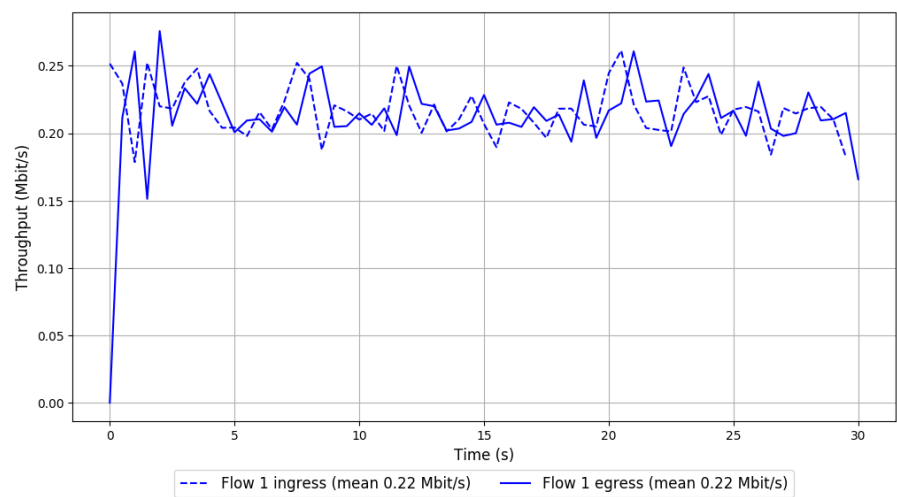
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 0.38%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SCReAM

Start at: 2018-05-25 12:31:00

End at: 2018-05-25 12:31:30

Local clock offset: -0.093 ms

Remote clock offset: 0.074 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.51%

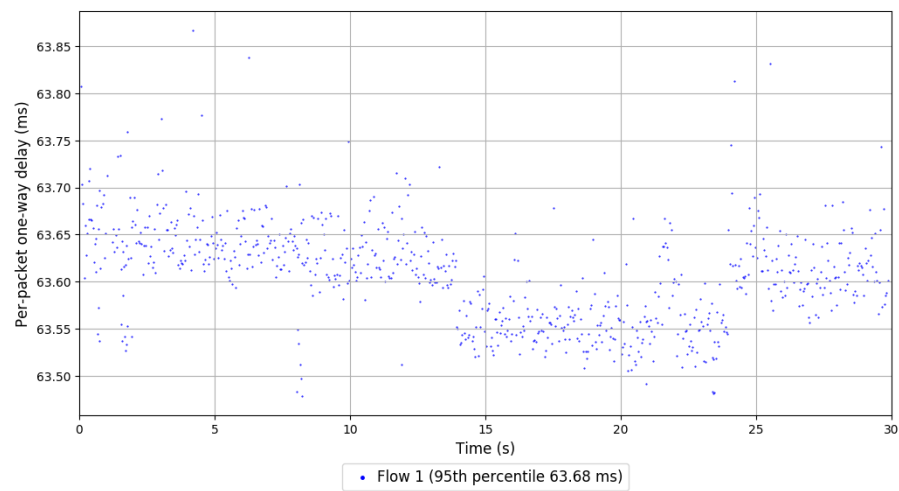
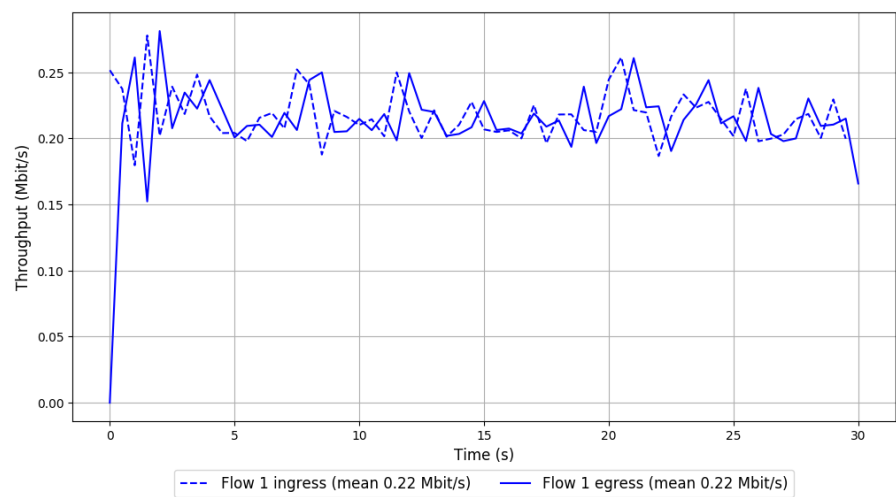
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.683 ms

Loss rate: 0.51%

Run 10: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-25 09:21:25

End at: 2018-05-25 09:21:55

Local clock offset: -0.07 ms

Remote clock offset: 0.102 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.00%

-- Flow 1:

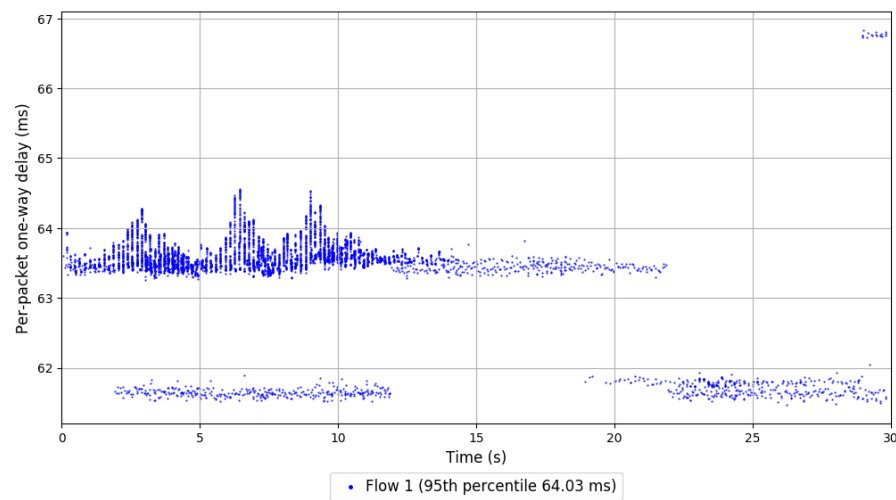
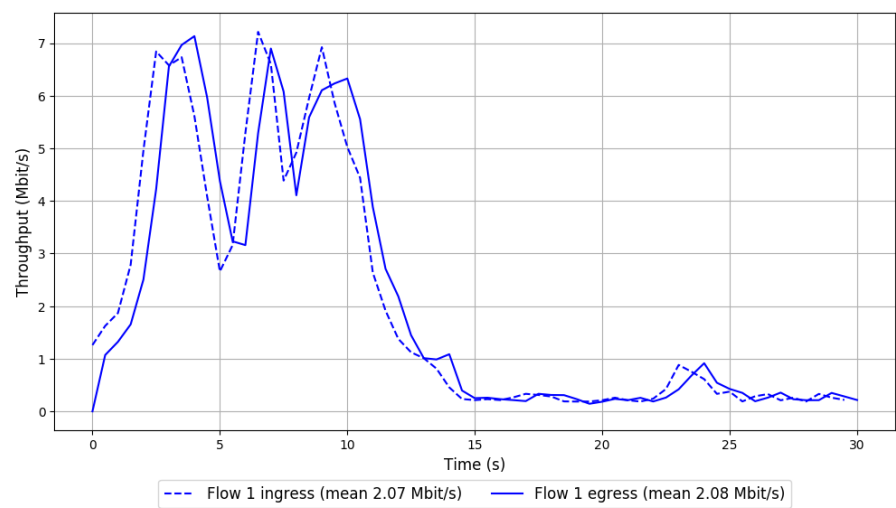
Average throughput: 2.08 Mbit/s

95th percentile per-packet one-way delay: 64.029 ms

Loss rate: 0.00%



Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2018-05-25 09:41:54

End at: 2018-05-25 09:42:24

Local clock offset: -0.034 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.11%

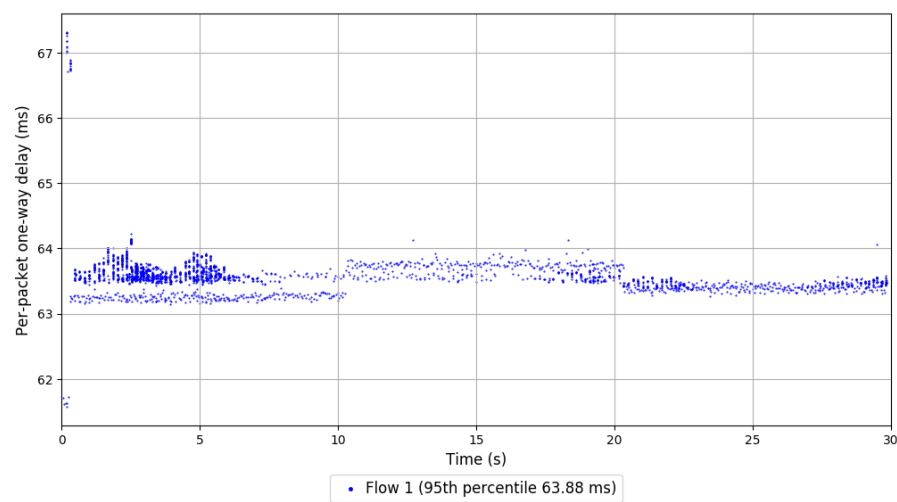
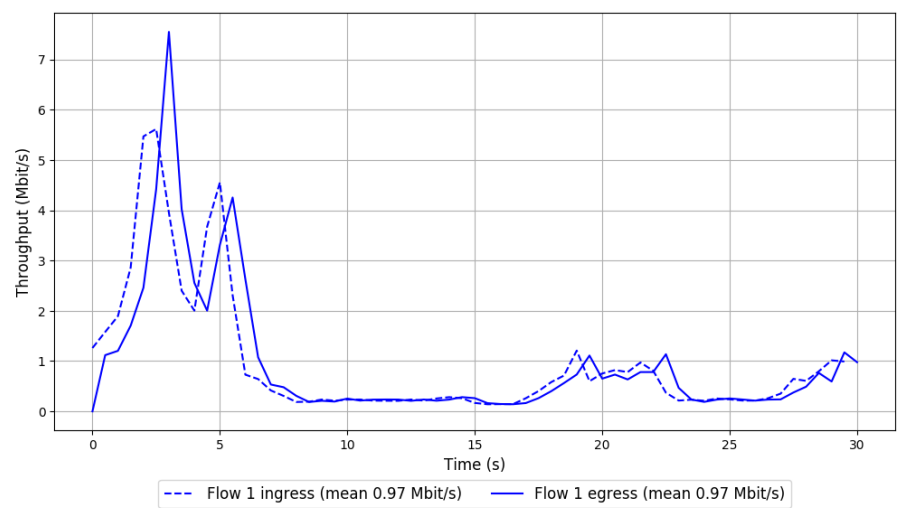
-- Flow 1:

Average throughput: 0.97 Mbit/s

95th percentile per-packet one-way delay: 63.880 ms

Loss rate: 0.11%

Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2018-05-25 10:02:24

End at: 2018-05-25 10:02:54

Local clock offset: 0.014 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 63.640 ms

Loss rate: 0.01%

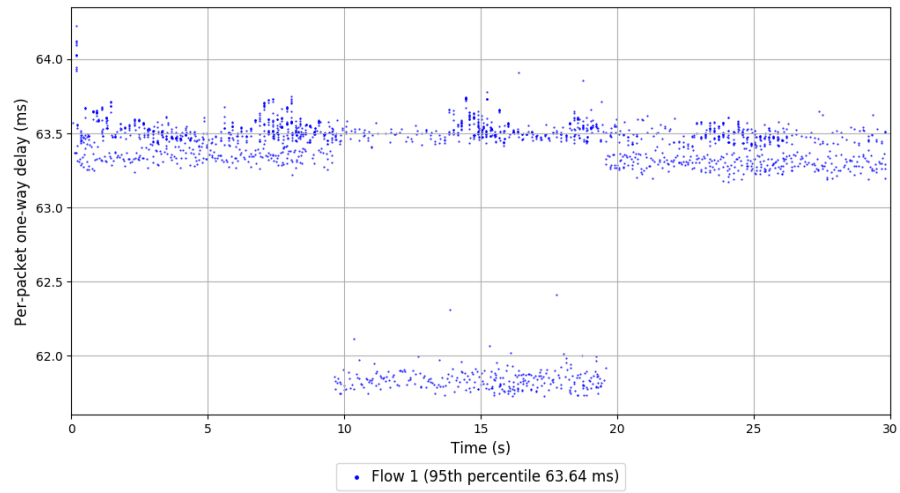
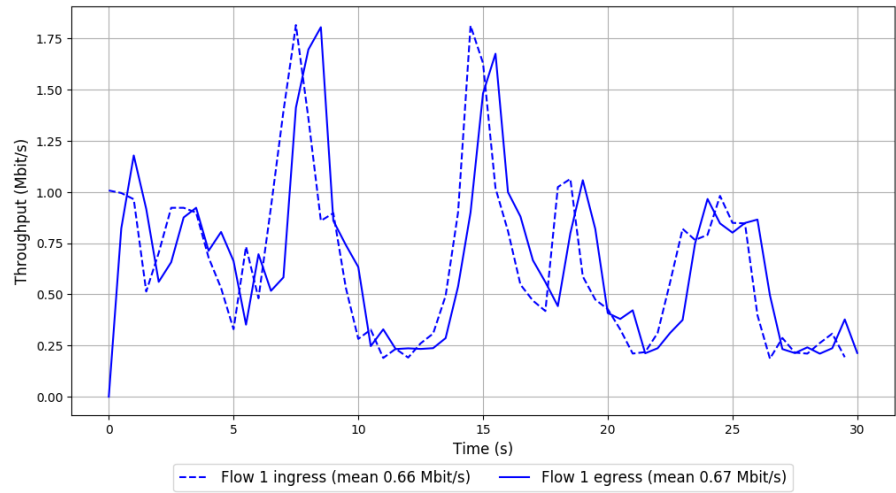
-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 63.640 ms

Loss rate: 0.01%

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



Run 4: Statistics of Sprout

Start at: 2018-05-25 10:23:01

End at: 2018-05-25 10:23:31

Local clock offset: -0.001 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 63.714 ms

Loss rate: 0.74%

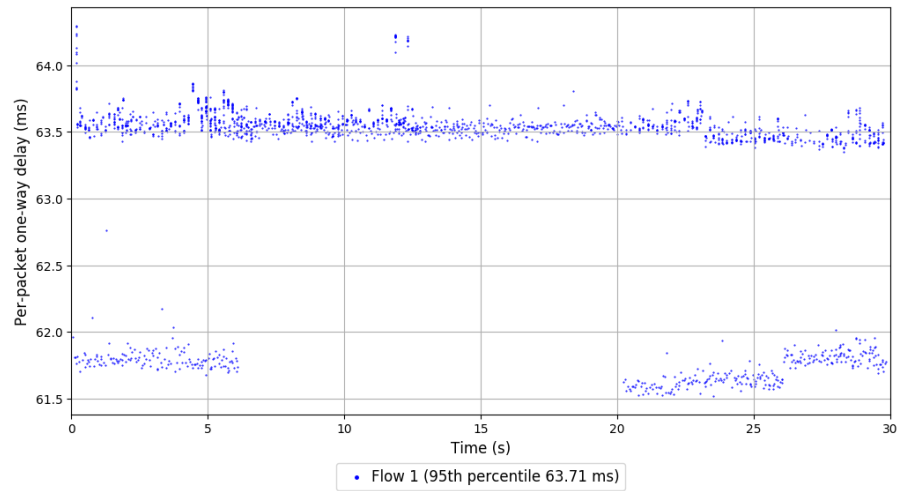
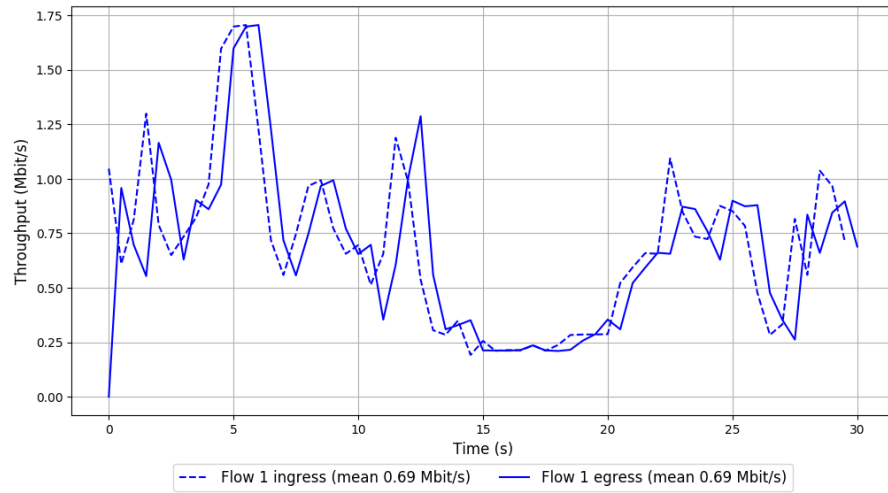
-- Flow 1:

Average throughput: 0.69 Mbit/s

95th percentile per-packet one-way delay: 63.714 ms

Loss rate: 0.74%

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



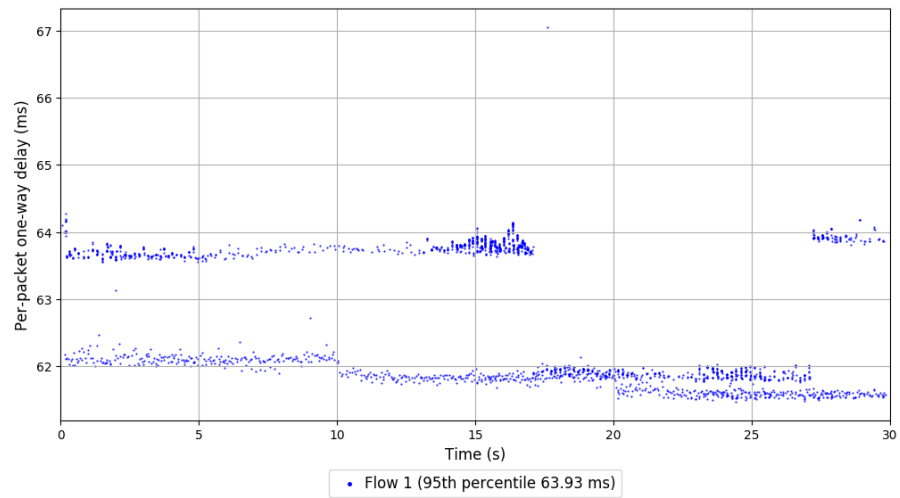
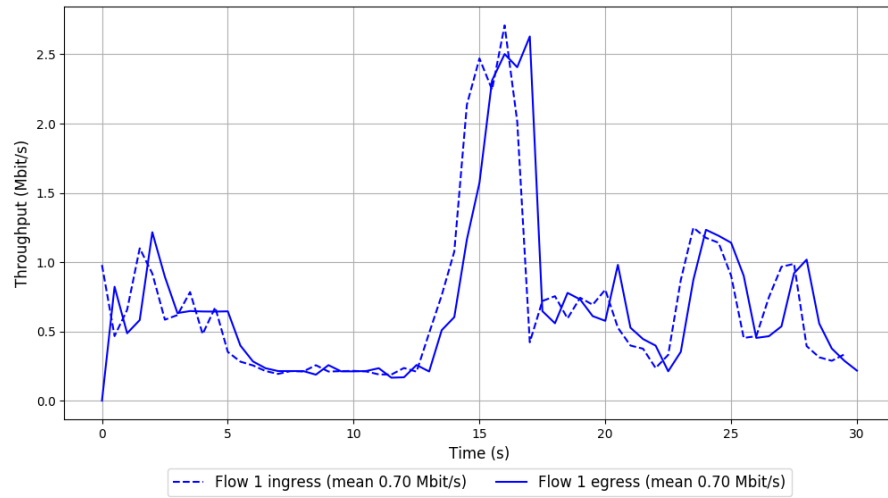
Run 5: Statistics of Sprout

Start at: 2018-05-25 10:43:27  
End at: 2018-05-25 10:43:57  
Local clock offset: 0.038 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 63.929 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 63.929 ms  
Loss rate: 0.29%



## Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-25 11:03:51

End at: 2018-05-25 11:04:21

Local clock offset: 0.013 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.61%

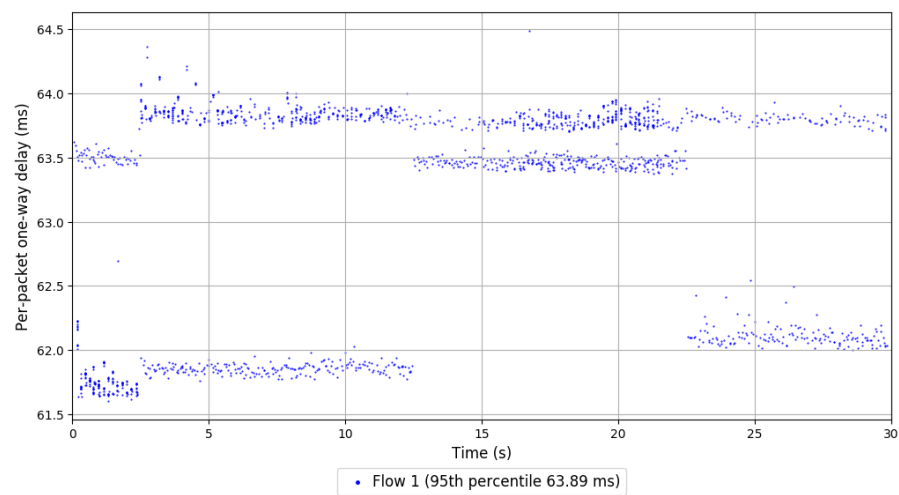
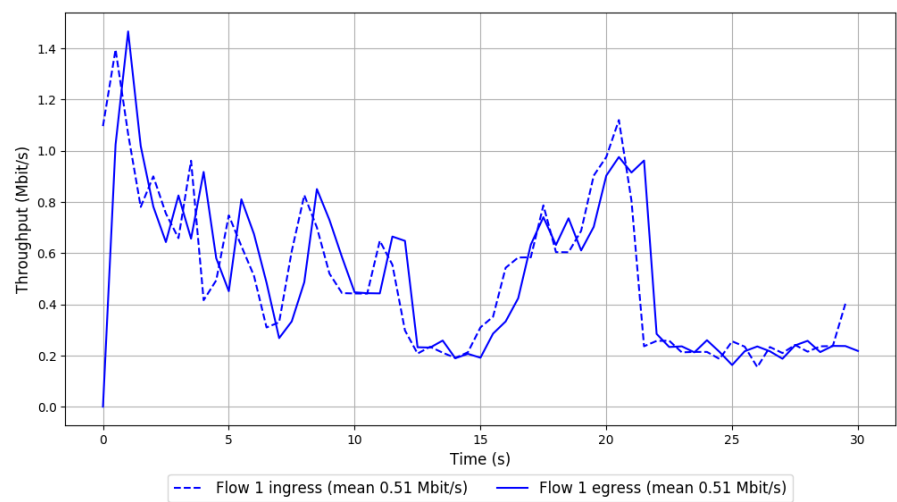
-- Flow 1:

Average throughput: 0.51 Mbit/s

95th percentile per-packet one-way delay: 63.891 ms

Loss rate: 0.61%

Run 6: Report of Sprout — Data Link



Run 7: Statistics of Sprout

Start at: 2018-05-25 11:24:37

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

Local clock offset: 0.082 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.05%

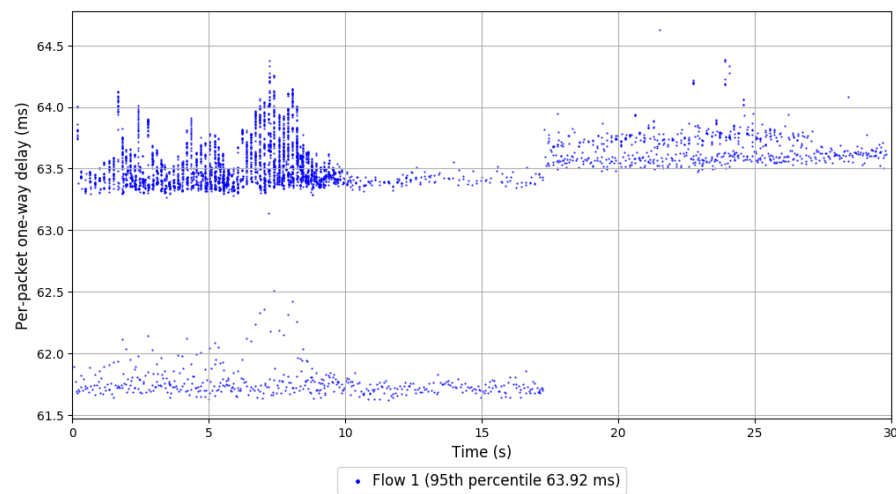
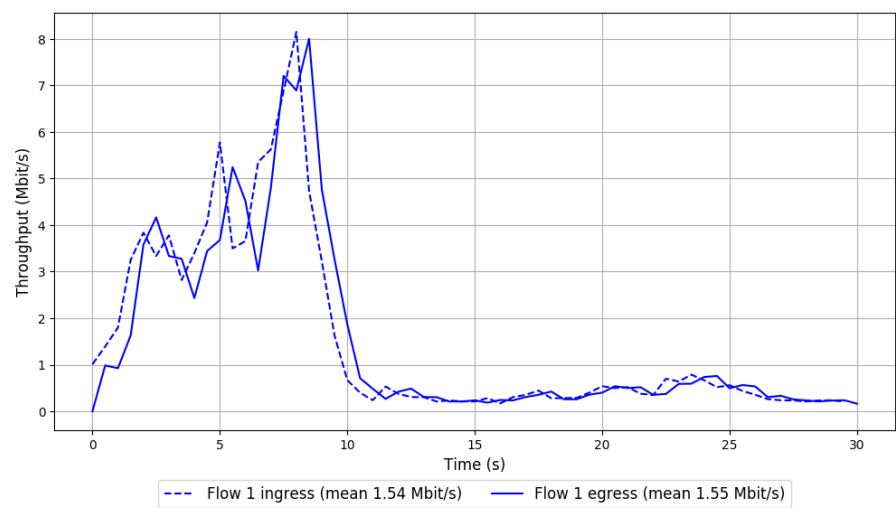
-- Flow 1:

Average throughput: 1.55 Mbit/s

95th percentile per-packet one-way delay: 63.919 ms

Loss rate: 0.05%

Run 7: Report of Sprout — Data Link

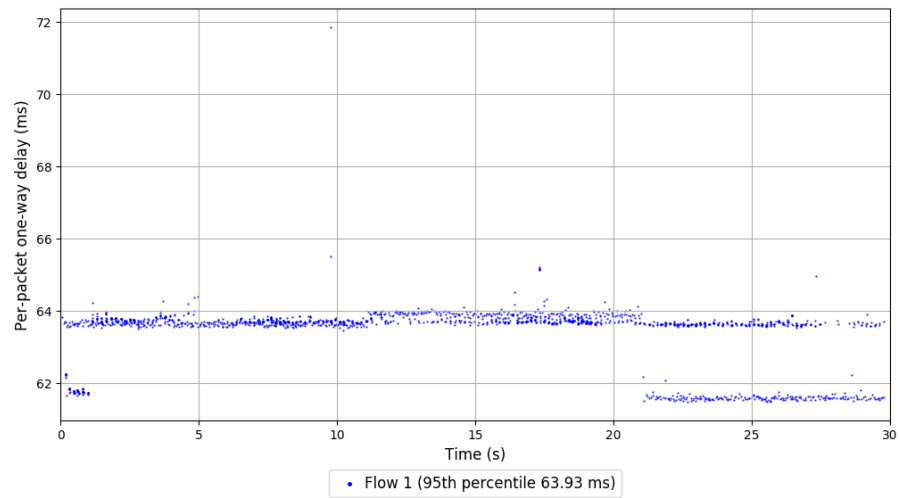
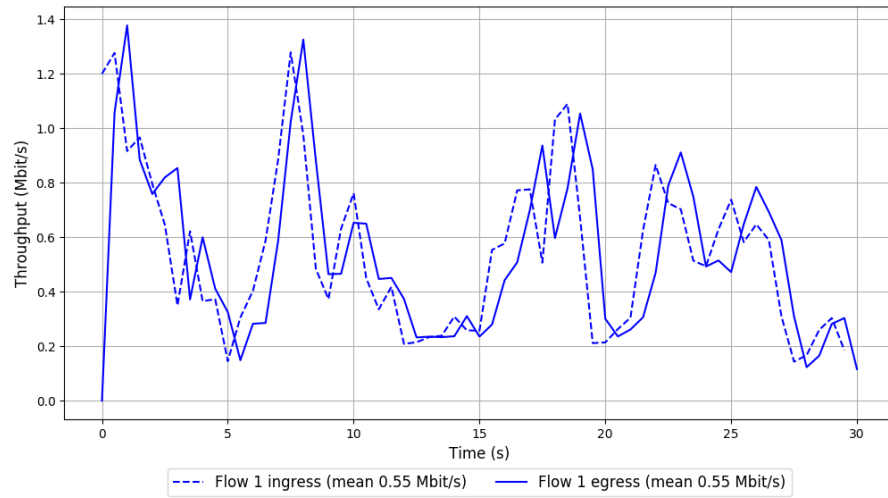


Run 8: Statistics of Sprout

Start at: 2018-05-25 11:45:03  
End at: 2018-05-25 11:45:33  
Local clock offset: -0.045 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 63.933 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 63.933 ms  
Loss rate: 0.22%

## Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-25 12:05:39

End at: 2018-05-25 12:06:09

Local clock offset: -0.021 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-25 14:09:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.34%

-- Flow 1:

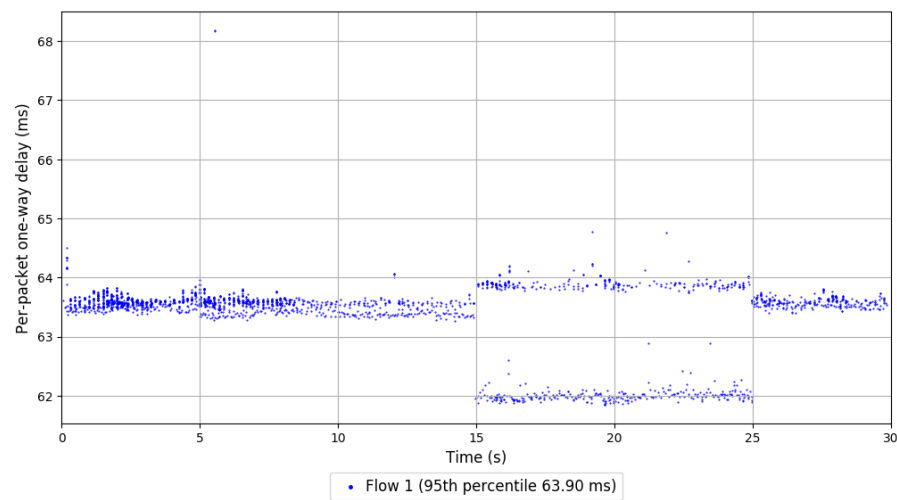
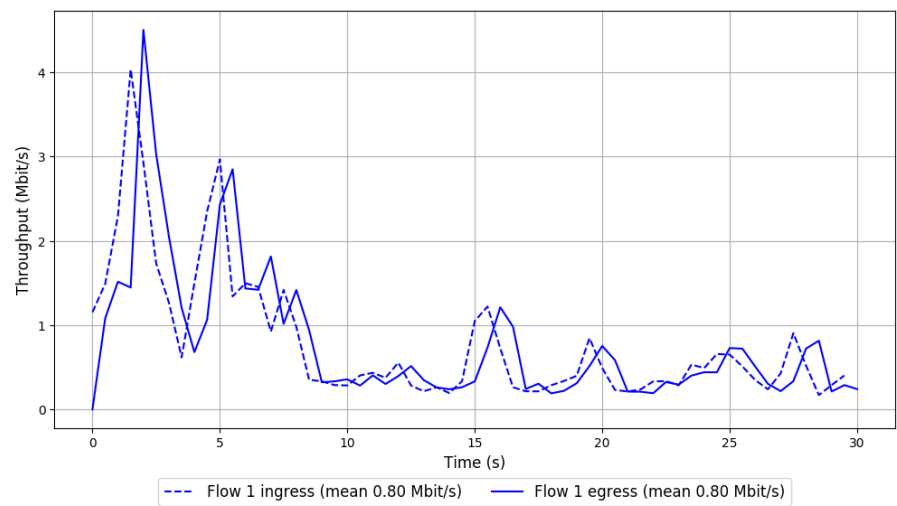
Average throughput: 0.80 Mbit/s

95th percentile per-packet one-way delay: 63.901 ms

Loss rate: 0.34%



Run 9: Report of Sprout — Data Link

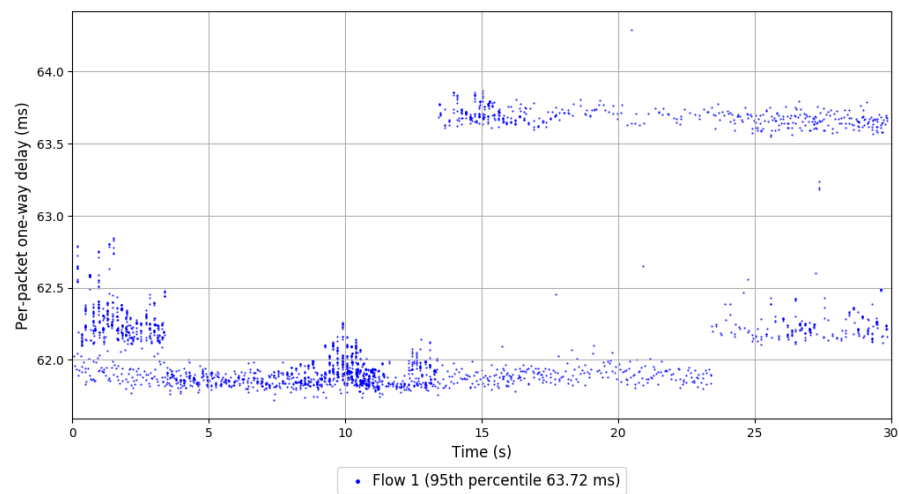
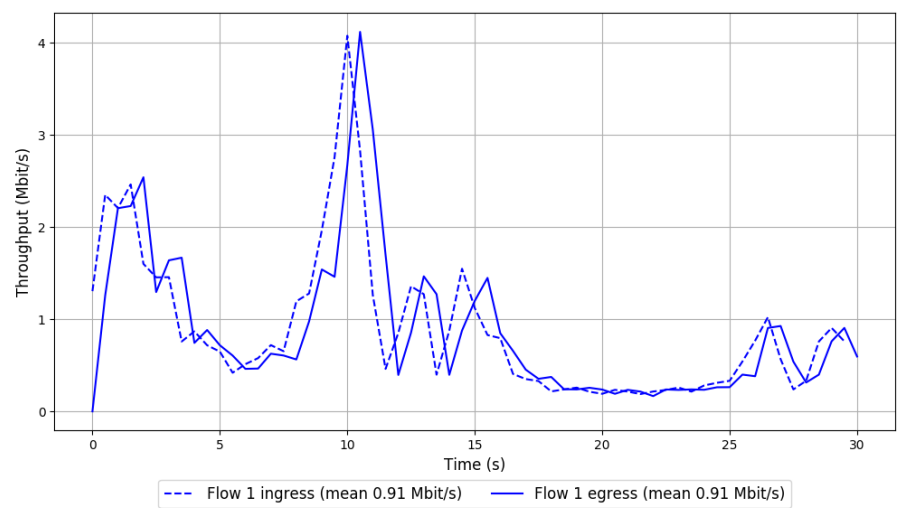


Run 10: Statistics of Sprout

Start at: 2018-05-25 12:26:00  
End at: 2018-05-25 12:26:30  
Local clock offset: -0.1 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2018-05-25 14:09:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.91 Mbit/s  
95th percentile per-packet one-way delay: 63.716 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 0.91 Mbit/s  
95th percentile per-packet one-way delay: 63.716 ms  
Loss rate: 0.31%

Run 10: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2018-05-25 09:31:07

End at: 2018-05-25 09:31:37

Local clock offset: -0.039 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2018-05-25 14:13:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.50 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.14%

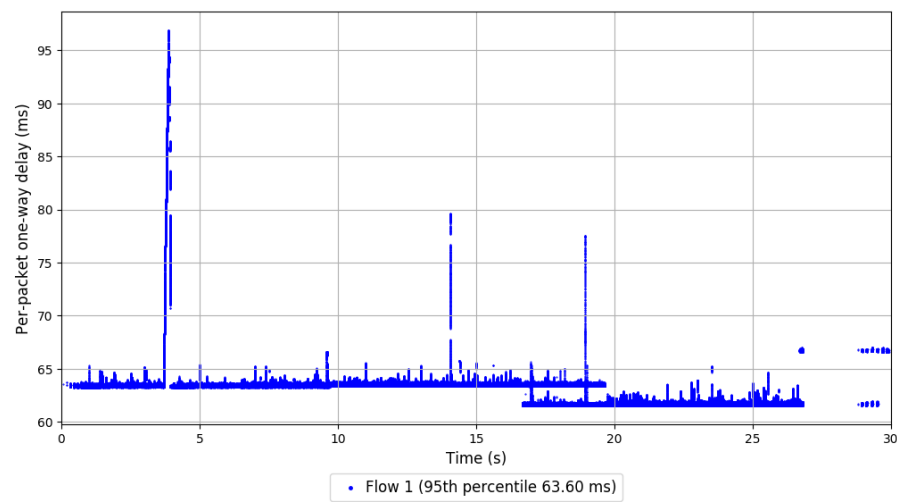
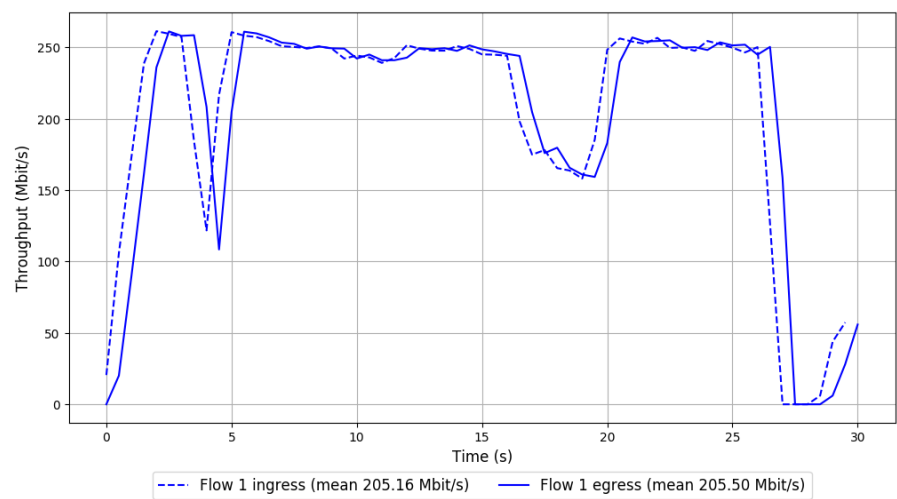
-- Flow 1:

Average throughput: 205.50 Mbit/s

95th percentile per-packet one-way delay: 63.601 ms

Loss rate: 0.14%

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



Run 2: Statistics of TaoVA-100x

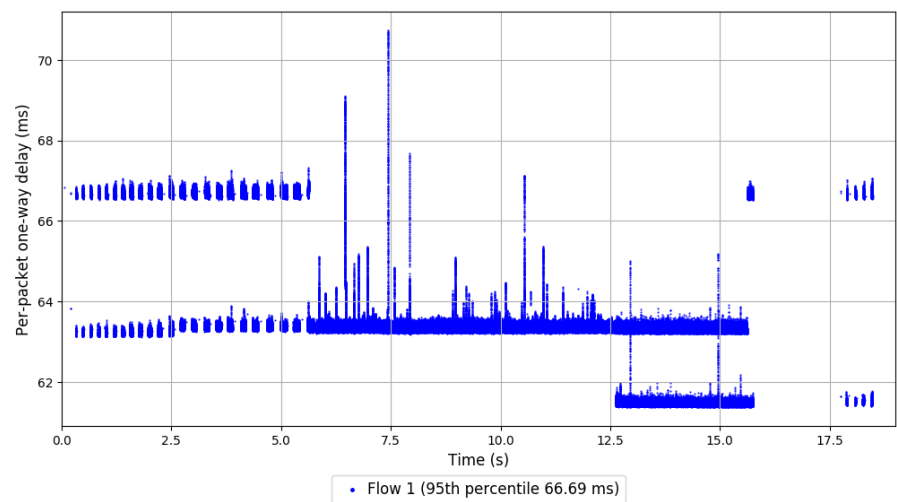
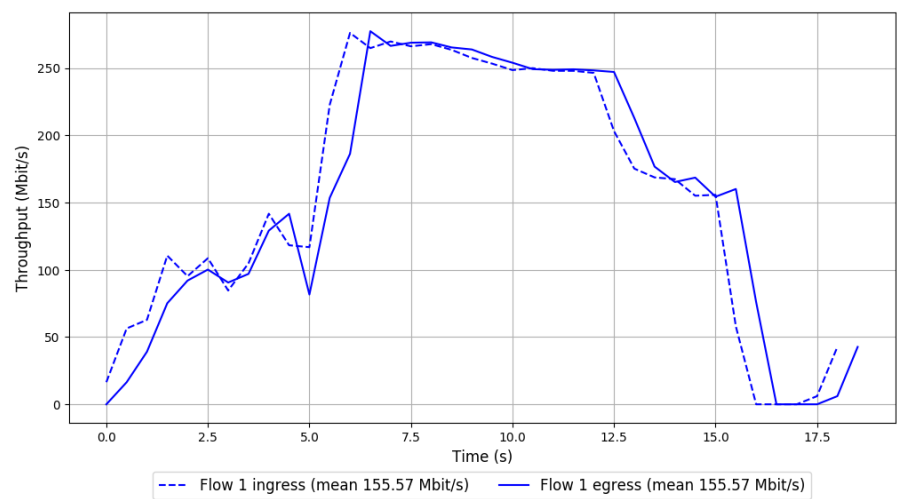
Start at: 2018-05-25 09:51:41

End at: 2018-05-25 09:52:11

Local clock offset: 0.01 ms

Remote clock offset: 0.157 ms

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-25 10:12:12

End at: 2018-05-25 10:12:42

Local clock offset: -0.009 ms

Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2018-05-25 14:13:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 179.62 Mbit/s

95th percentile per-packet one-way delay: 63.688 ms

Loss rate: 0.21%

-- Flow 1:

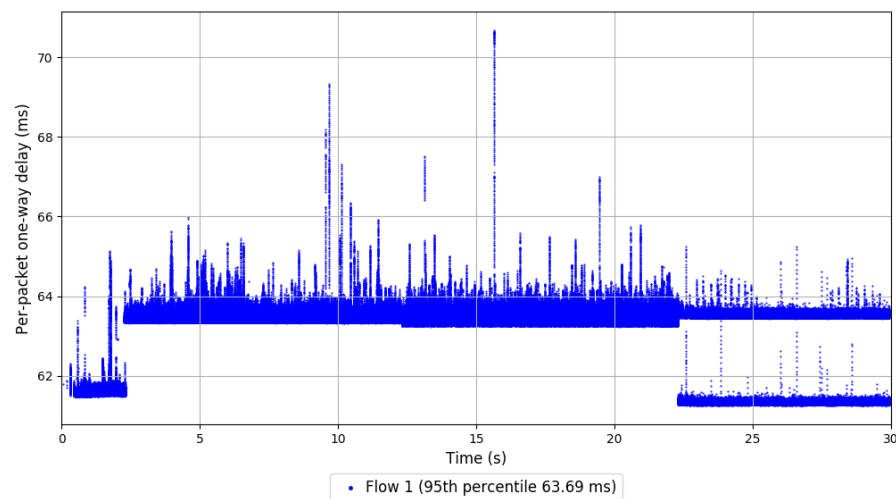
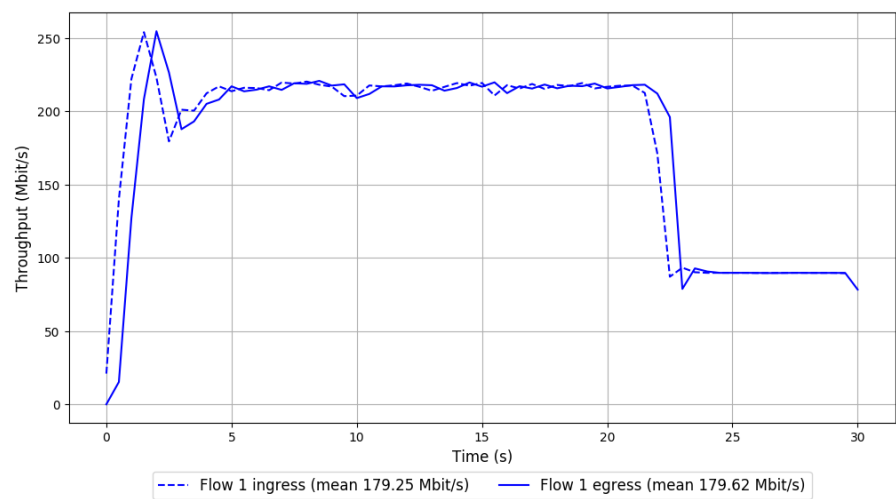
Average throughput: 179.62 Mbit/s

95th percentile per-packet one-way delay: 63.688 ms

Loss rate: 0.21%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-25 10:32:46

End at: 2018-05-25 10:33:16

Local clock offset: 0.049 ms

Remote clock offset: 0.168 ms

# Below is generated by plot.py at 2018-05-25 14:13:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 118.19 Mbit/s

95th percentile per-packet one-way delay: 63.385 ms

Loss rate: 0.30%

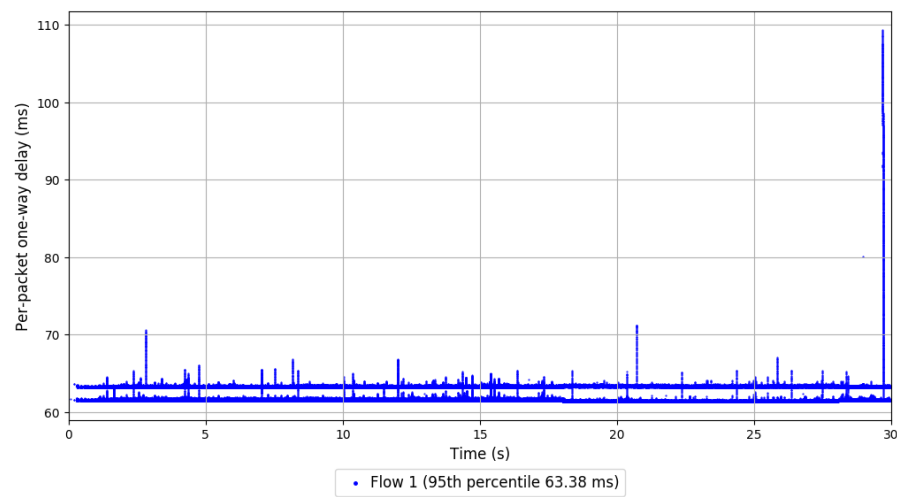
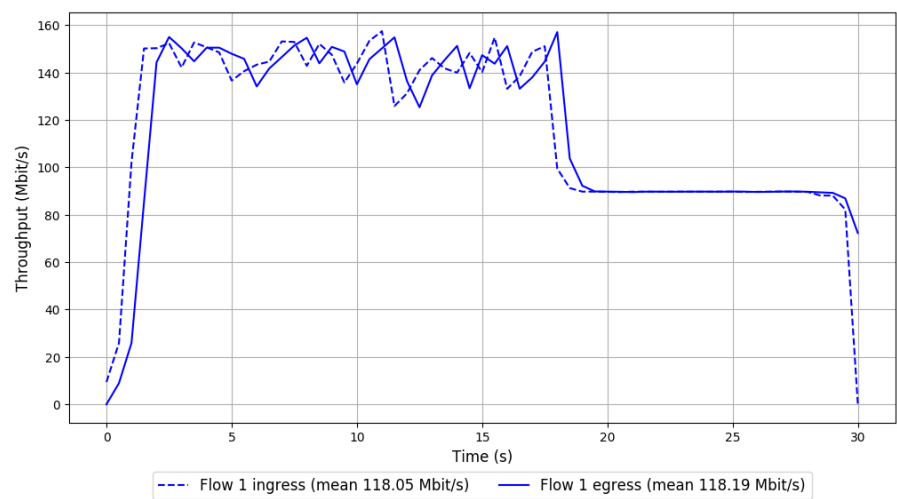
-- Flow 1:

Average throughput: 118.19 Mbit/s

95th percentile per-packet one-way delay: 63.385 ms

Loss rate: 0.30%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-05-25 10:53:12

End at: 2018-05-25 10:53:42

Local clock offset: 0.027 ms

Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2018-05-25 14:13:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 98.72 Mbit/s

95th percentile per-packet one-way delay: 63.535 ms

Loss rate: 0.38%

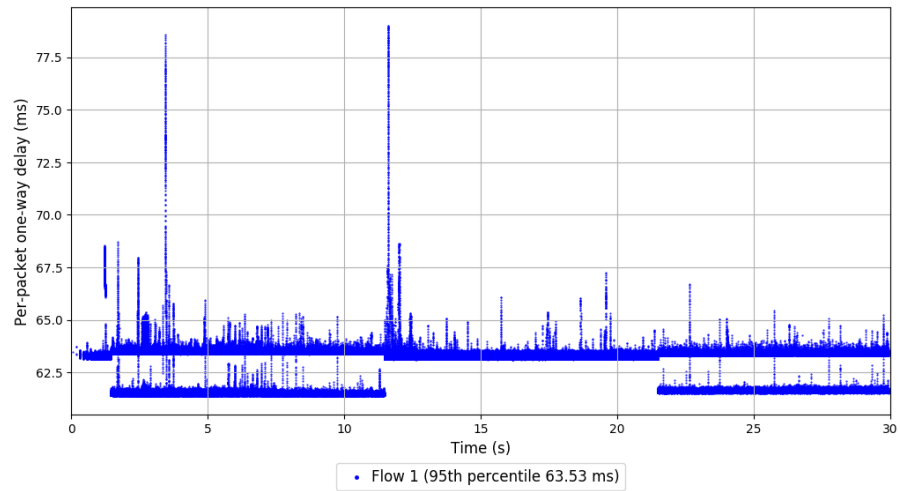
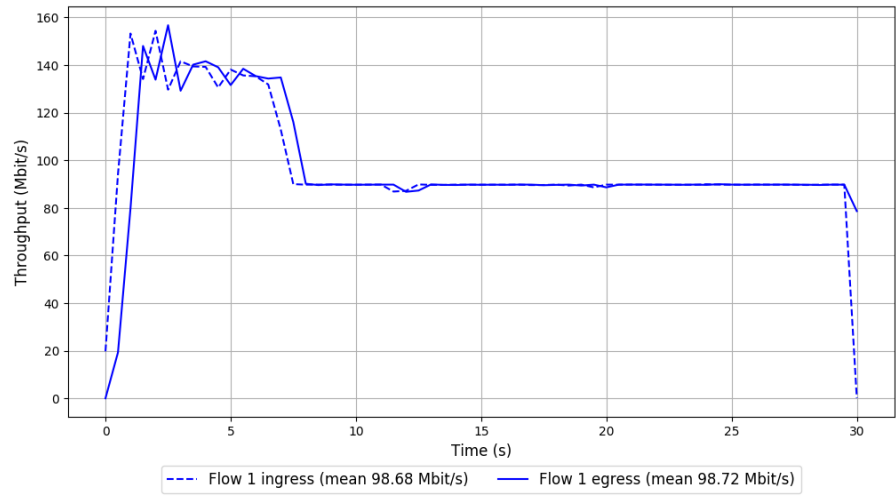
-- Flow 1:

Average throughput: 98.72 Mbit/s

95th percentile per-packet one-way delay: 63.535 ms

Loss rate: 0.38%

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

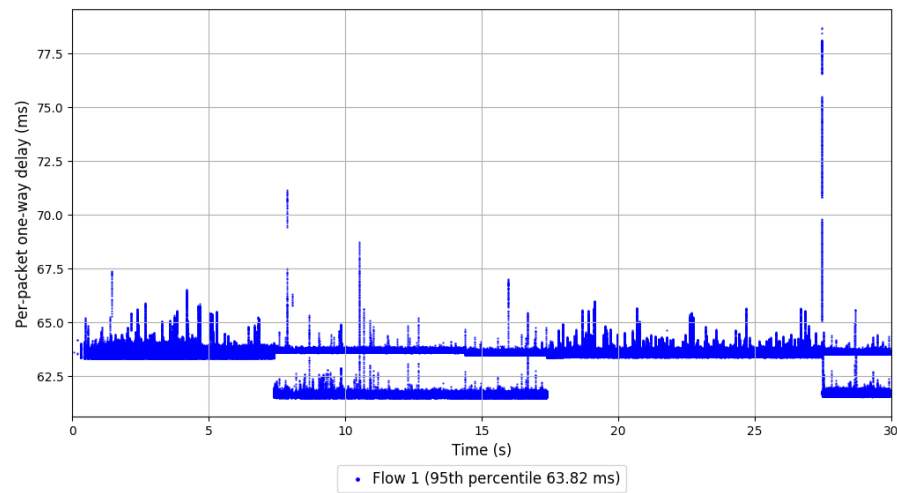
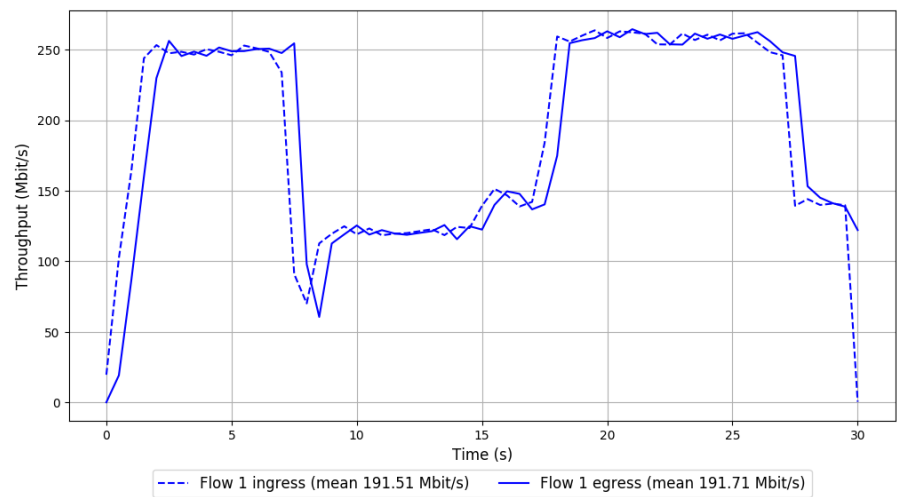


Run 6: Statistics of TaoVA-100x

Start at: 2018-05-25 11:13:39  
End at: 2018-05-25 11:14:10  
Local clock offset: 0.017 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2018-05-25 14:16:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 191.71 Mbit/s  
95th percentile per-packet one-way delay: 63.822 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 191.71 Mbit/s  
95th percentile per-packet one-way delay: 63.822 ms  
Loss rate: 0.31%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-25 11:34:34

End at: 2018-05-25 11:35:04

Local clock offset: 0.012 ms

Remote clock offset: 0.289 ms

# Below is generated by plot.py at 2018-05-25 14:16:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 133.19 Mbit/s

95th percentile per-packet one-way delay: 63.499 ms

Loss rate: 0.28%

-- Flow 1:

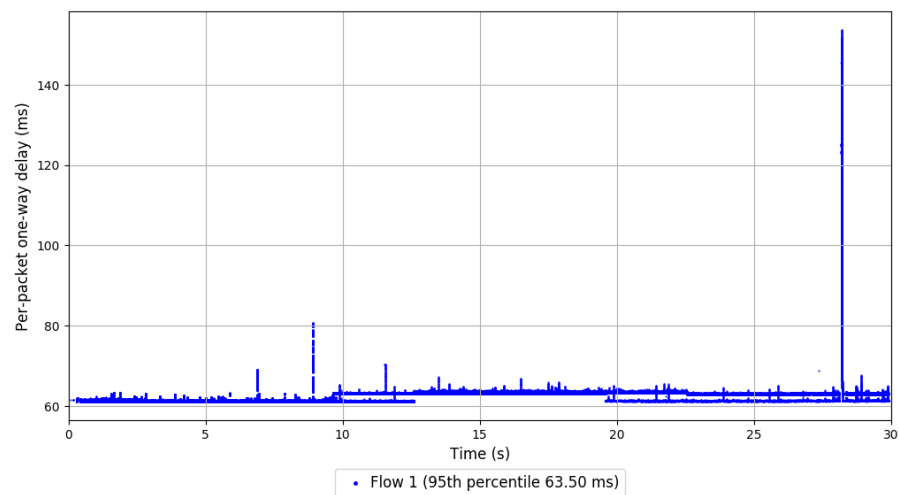
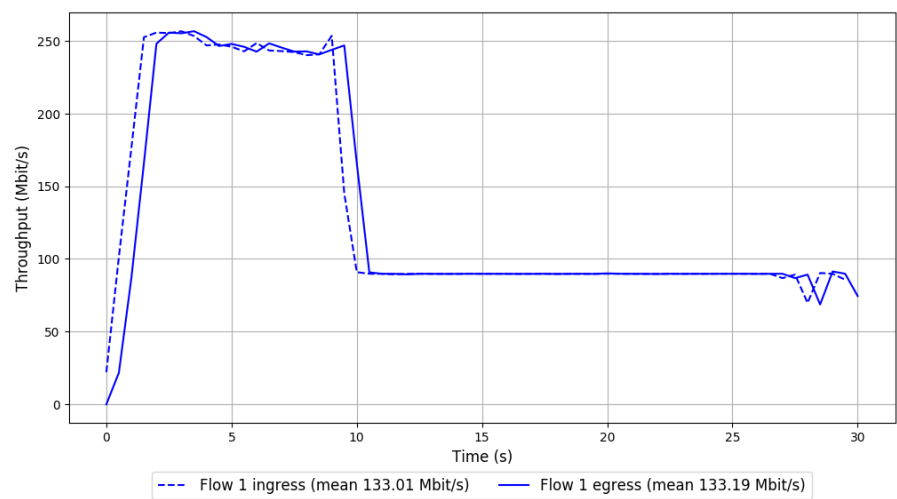
Average throughput: 133.19 Mbit/s

95th percentile per-packet one-way delay: 63.499 ms

Loss rate: 0.28%



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

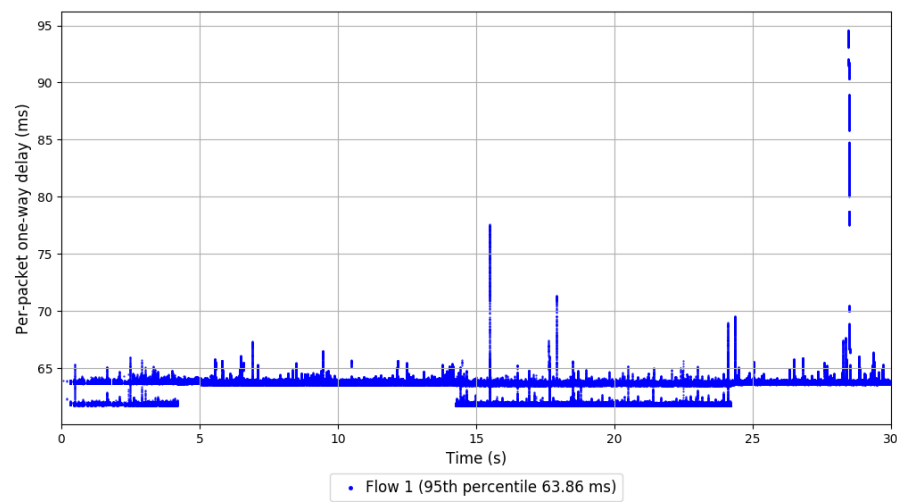
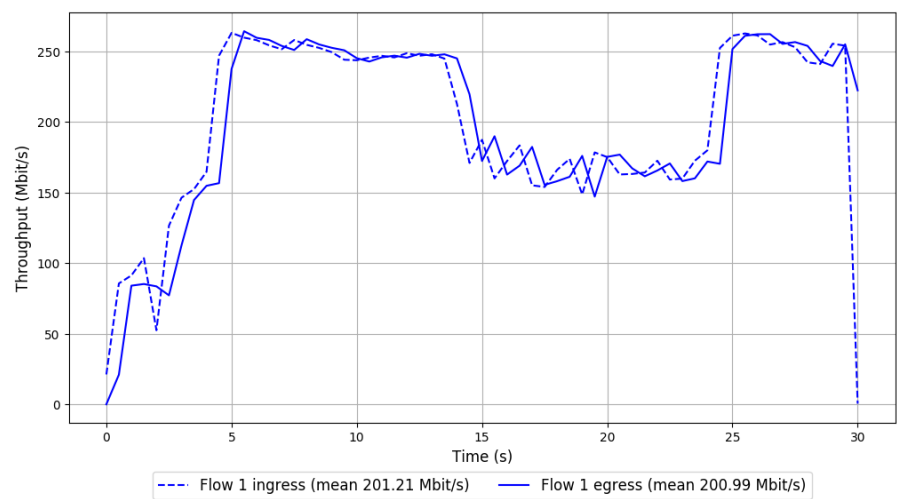


Run 8: Statistics of TaoVA-100x

Start at: 2018-05-25 11:55:00  
End at: 2018-05-25 11:55:30  
Local clock offset: 0.013 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2018-05-25 14:17:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 200.99 Mbit/s  
95th percentile per-packet one-way delay: 63.862 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 200.99 Mbit/s  
95th percentile per-packet one-way delay: 63.862 ms  
Loss rate: 0.53%

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

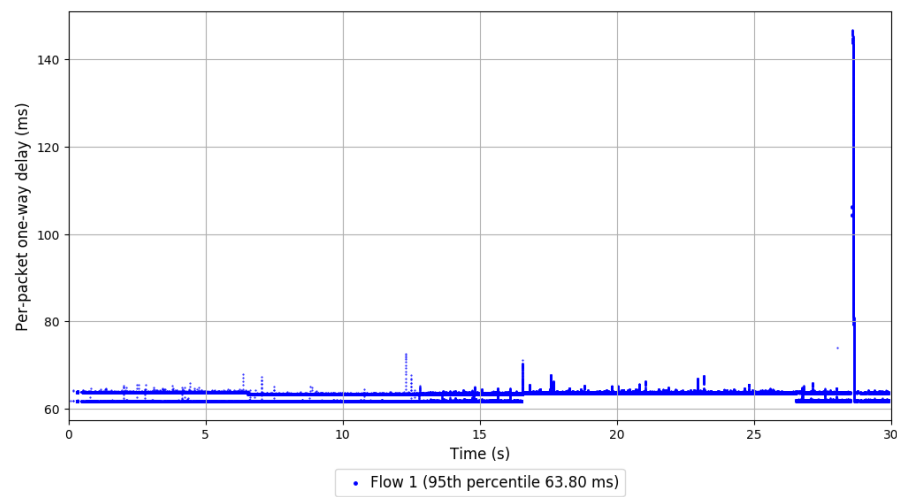
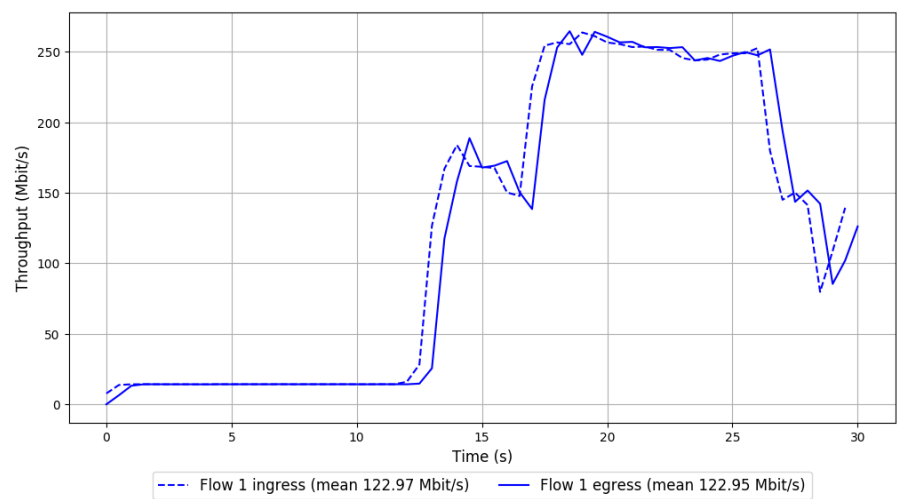


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-25 12:15:27  
End at: 2018-05-25 12:15:57  
Local clock offset: -0.076 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2018-05-25 14:17:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 122.95 Mbit/s  
95th percentile per-packet one-way delay: 63.798 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 122.95 Mbit/s  
95th percentile per-packet one-way delay: 63.798 ms  
Loss rate: 0.43%

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

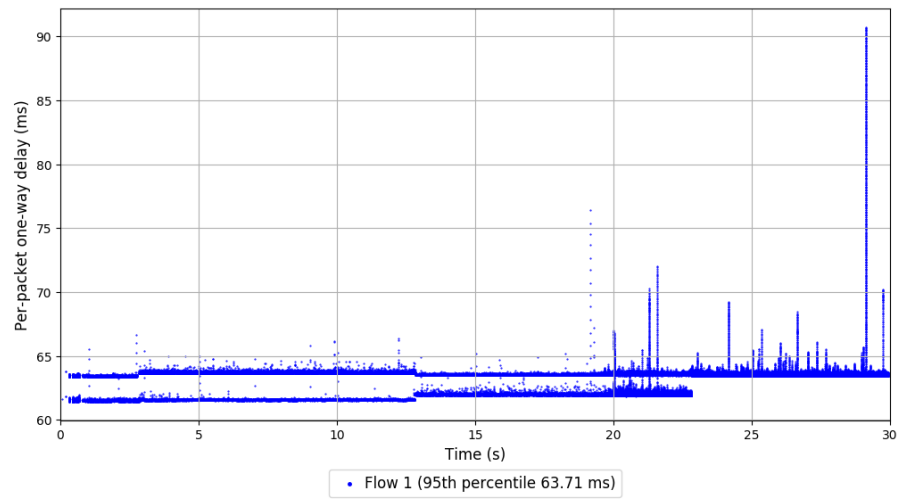
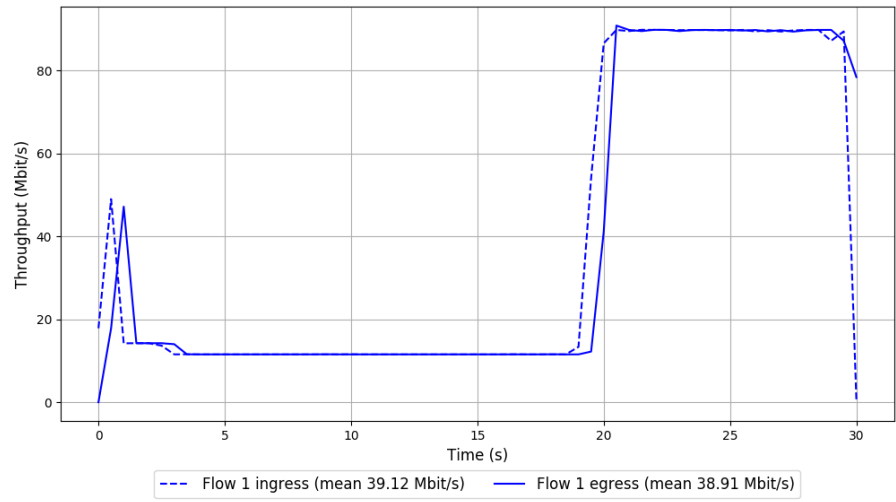


Run 10: Statistics of TaoVA-100x

Start at: 2018-05-25 12:35:51  
End at: 2018-05-25 12:36:21  
Local clock offset: -0.142 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-05-25 14:17:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 38.91 Mbit/s  
95th percentile per-packet one-way delay: 63.711 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 38.91 Mbit/s  
95th percentile per-packet one-way delay: 63.711 ms  
Loss rate: 0.97%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-25 09:17:24

End at: 2018-05-25 09:17:54

Local clock offset: -0.06 ms

Remote clock offset: 0.286 ms

# Below is generated by plot.py at 2018-05-25 14:17:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 64.063 ms

Loss rate: 0.57%

-- Flow 1:

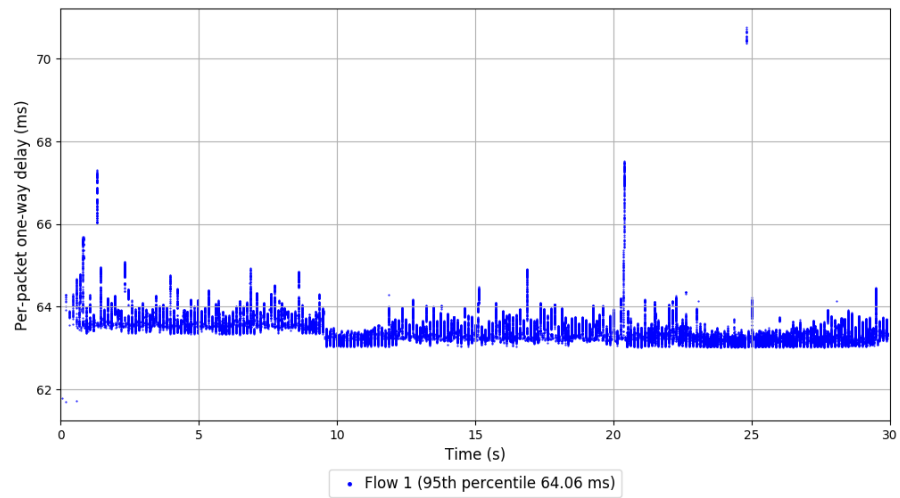
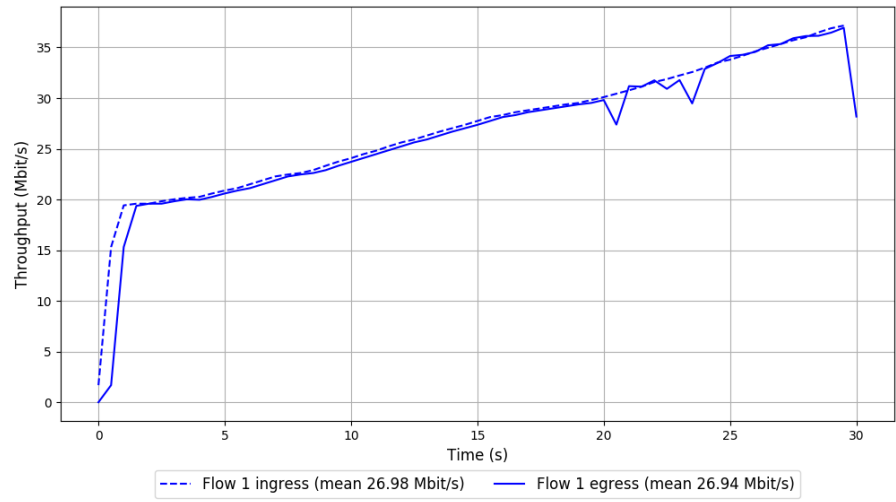
Average throughput: 26.94 Mbit/s

95th percentile per-packet one-way delay: 64.063 ms

Loss rate: 0.57%



# Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-25 09:37:45

End at: 2018-05-25 09:38:15

Local clock offset: -0.086 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2018-05-25 14:17:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 74.098 ms

Loss rate: 0.45%

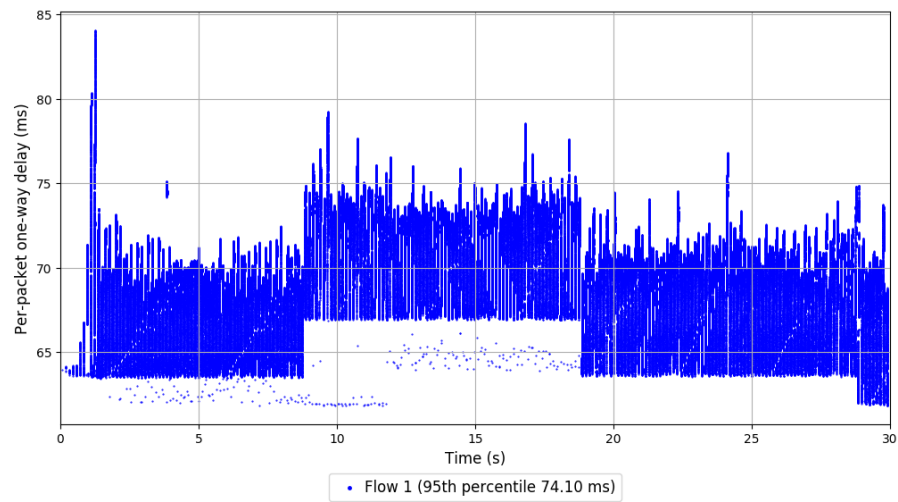
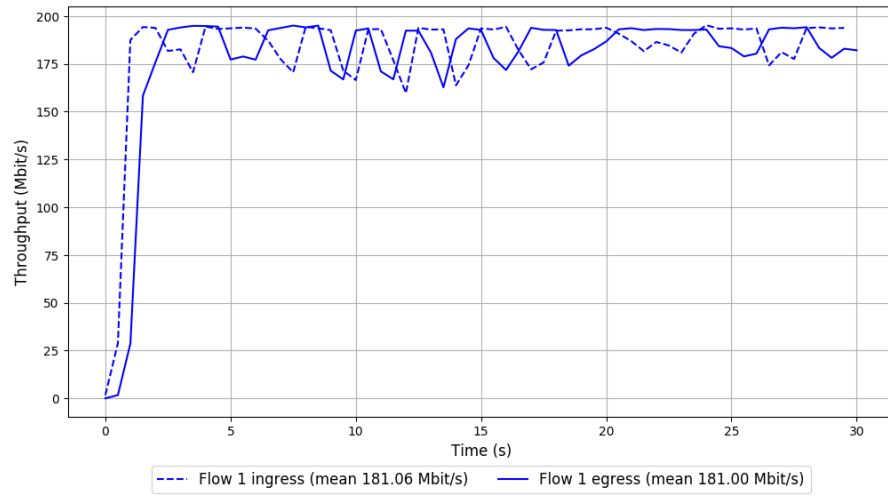
-- Flow 1:

Average throughput: 181.00 Mbit/s

95th percentile per-packet one-way delay: 74.098 ms

Loss rate: 0.45%

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



Run 3: Statistics of TCP Vegas

Start at: 2018-05-25 09:58:13

End at: 2018-05-25 09:58:43

Local clock offset: 0.007 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2018-05-25 14:17:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.18 Mbit/s

95th percentile per-packet one-way delay: 72.692 ms

Loss rate: 0.48%

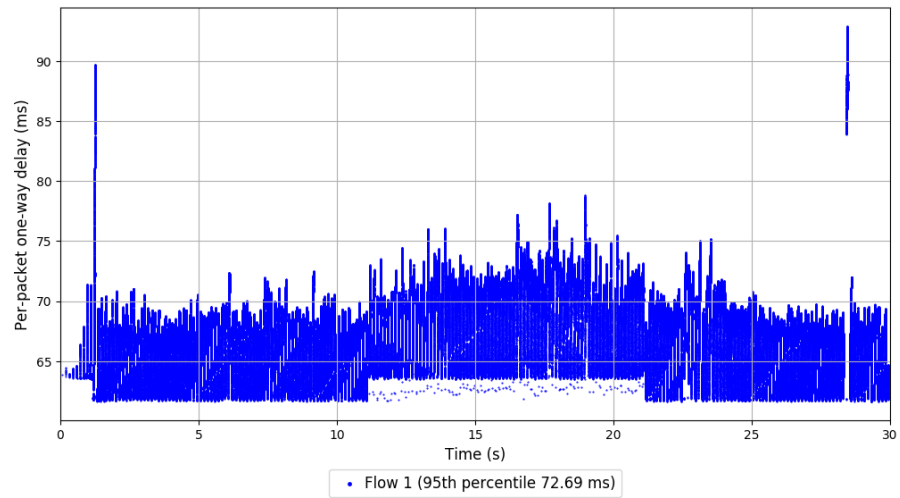
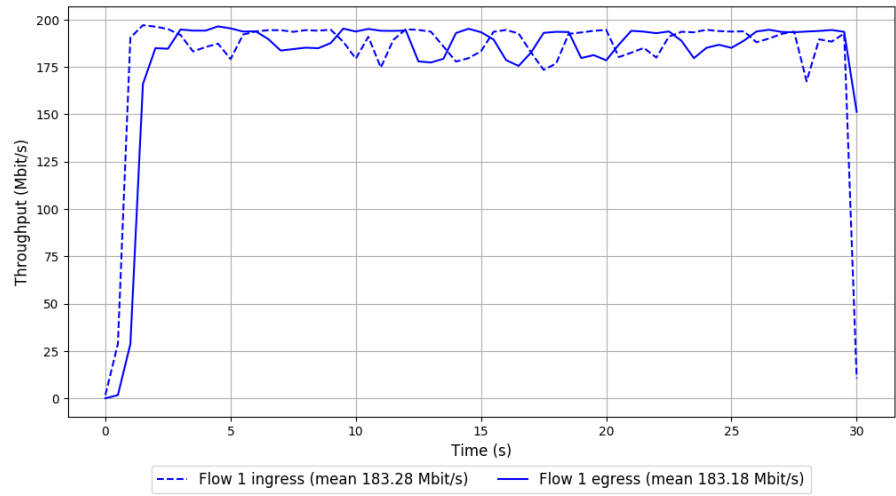
-- Flow 1:

Average throughput: 183.18 Mbit/s

95th percentile per-packet one-way delay: 72.692 ms

Loss rate: 0.48%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-05-25 10:18:55

End at: 2018-05-25 10:19:25

Local clock offset: -0.027 ms

Remote clock offset: 0.212 ms

# Below is generated by plot.py at 2018-05-25 14:17:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 18.98 Mbit/s

95th percentile per-packet one-way delay: 64.187 ms

Loss rate: 0.56%

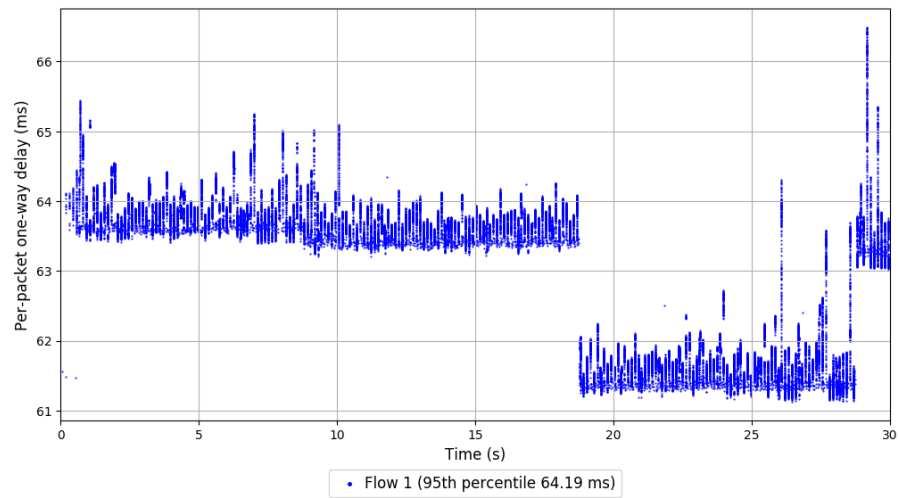
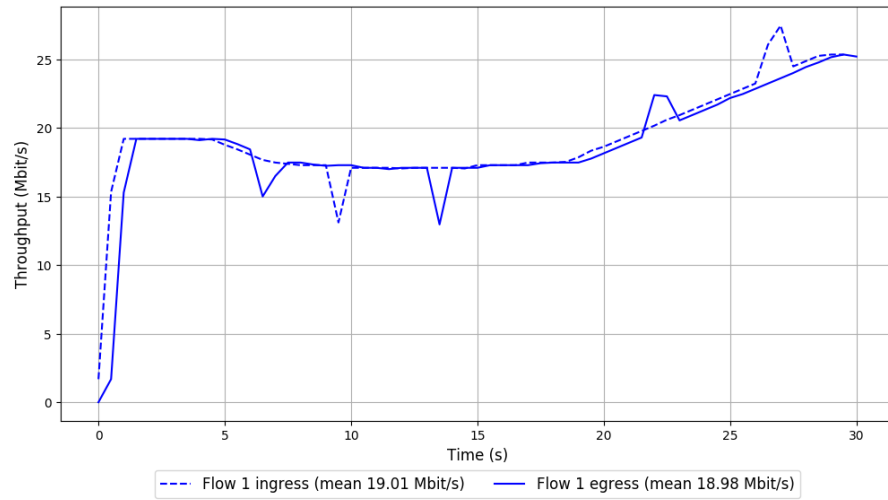
-- Flow 1:

Average throughput: 18.98 Mbit/s

95th percentile per-packet one-way delay: 64.187 ms

Loss rate: 0.56%

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



Run 5: Statistics of TCP Vegas

Start at: 2018-05-25 10:39:26

End at: 2018-05-25 10:39:56

Local clock offset: 0.002 ms

Remote clock offset: 0.125 ms

# Below is generated by plot.py at 2018-05-25 14:17:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 64.030 ms

Loss rate: 0.46%

-- Flow 1:

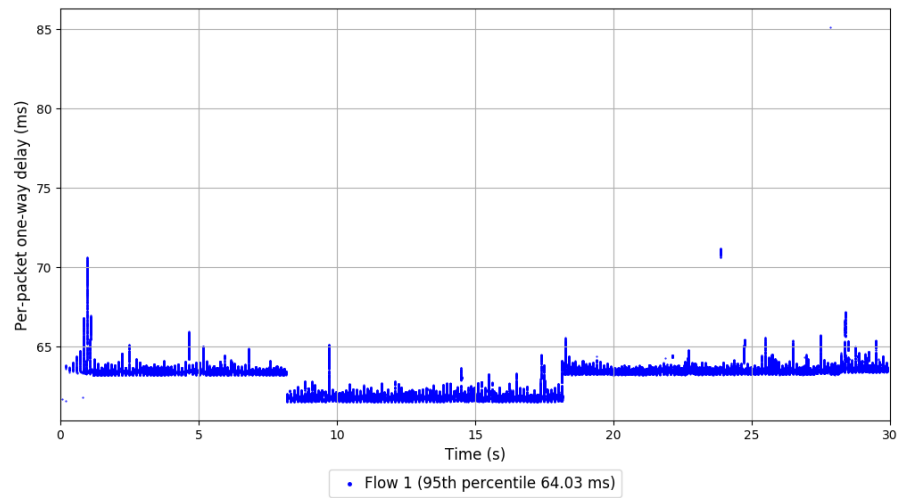
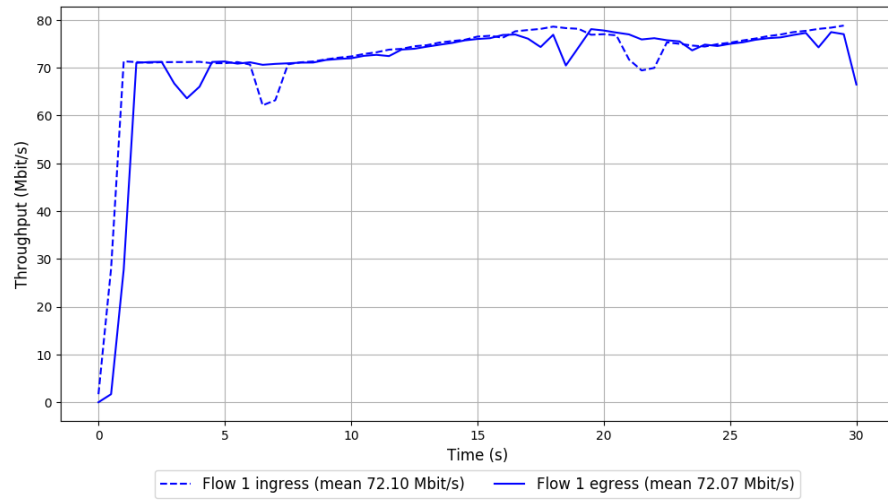
Average throughput: 72.07 Mbit/s

95th percentile per-packet one-way delay: 64.030 ms

Loss rate: 0.46%



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

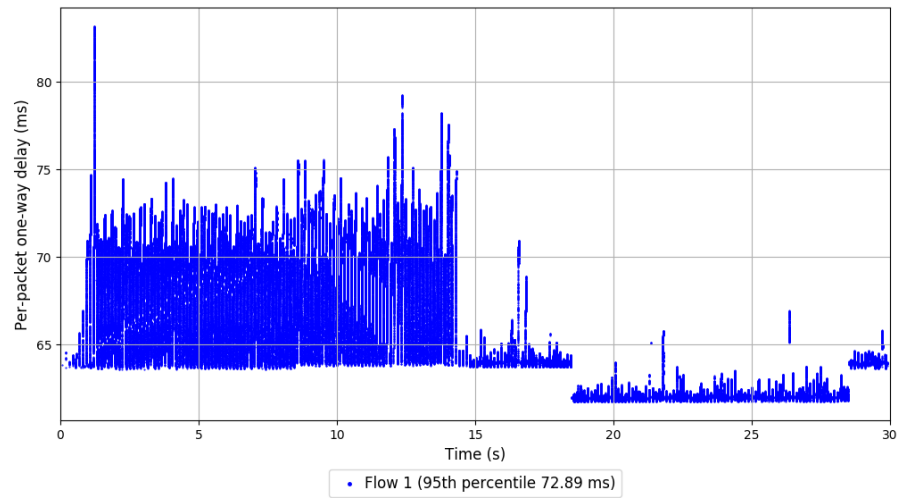
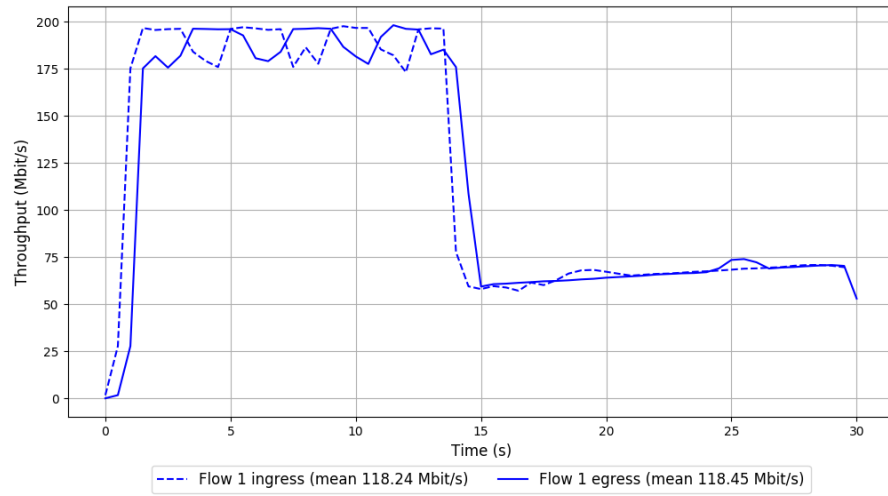


Run 6: Statistics of TCP Vegas

Start at: 2018-05-25 10:59:45  
End at: 2018-05-25 11:00:15  
Local clock offset: 0.039 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2018-05-25 14:17:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 118.45 Mbit/s  
95th percentile per-packet one-way delay: 72.887 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 118.45 Mbit/s  
95th percentile per-packet one-way delay: 72.887 ms  
Loss rate: 0.25%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-05-25 11:20:28

End at: 2018-05-25 11:20:58

Local clock offset: 0.032 ms

Remote clock offset: 0.187 ms

# Below is generated by plot.py at 2018-05-25 14:18:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 74.875 ms

Loss rate: 0.48%

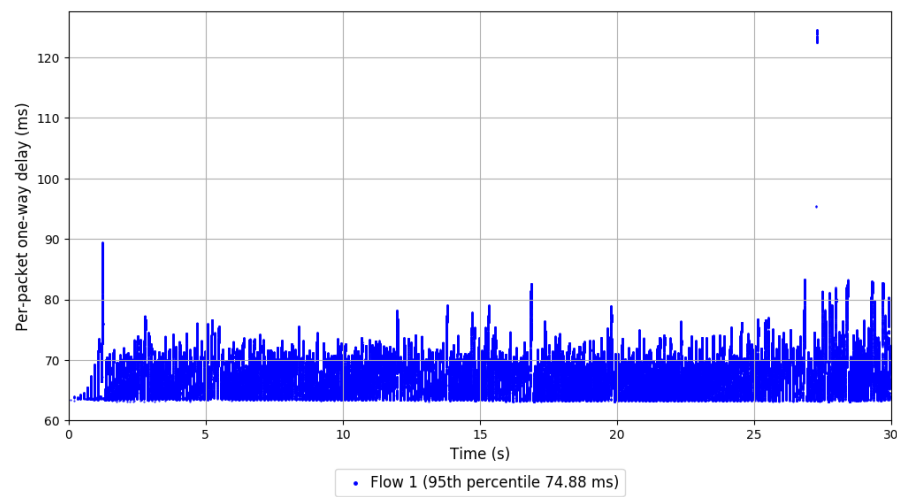
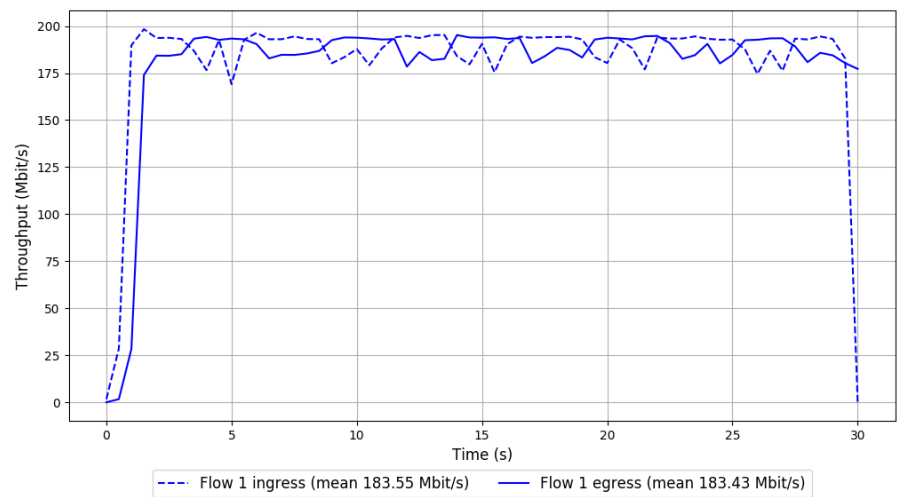
-- Flow 1:

Average throughput: 183.43 Mbit/s

95th percentile per-packet one-way delay: 74.875 ms

Loss rate: 0.48%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

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

End at: 2018-05-25 11:41:35

Local clock offset: 0.022 ms

Remote clock offset: 0.071 ms

# Below is generated by plot.py at 2018-05-25 14:18:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 0.50%

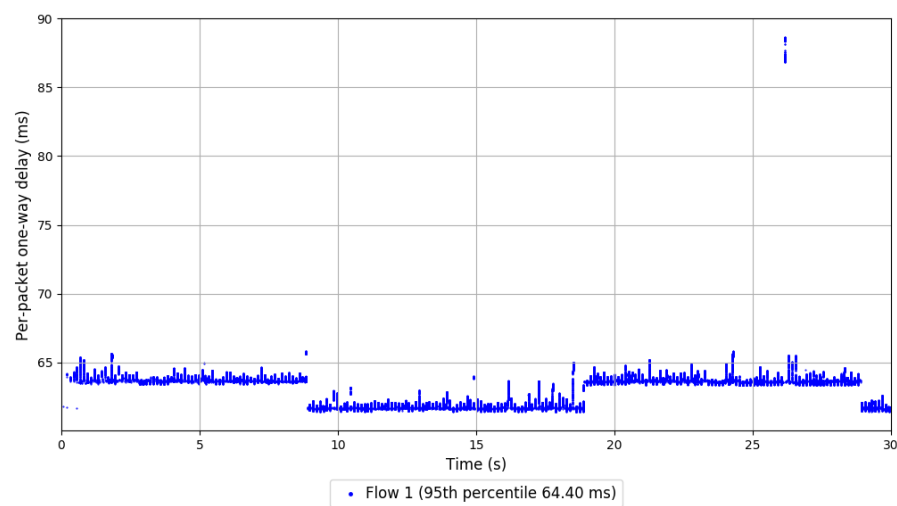
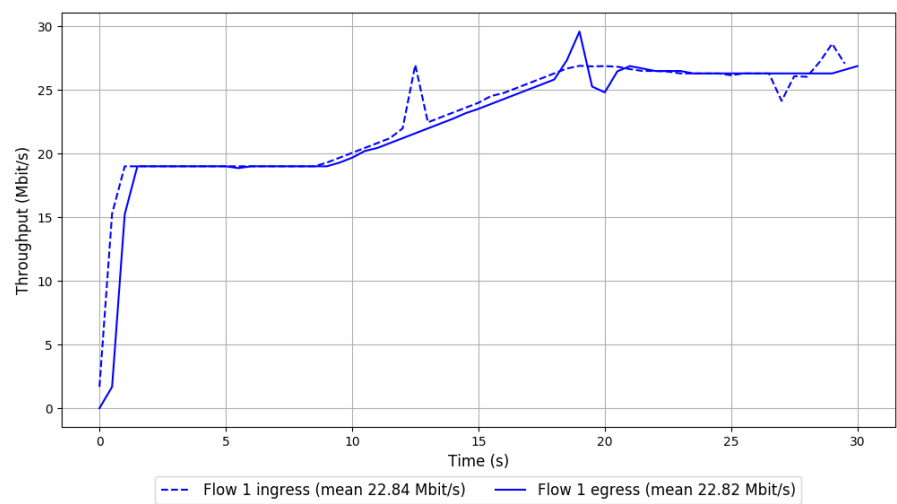
-- Flow 1:

Average throughput: 22.82 Mbit/s

95th percentile per-packet one-way delay: 64.399 ms

Loss rate: 0.50%

Run 8: Report of TCP Vegas — Data Link



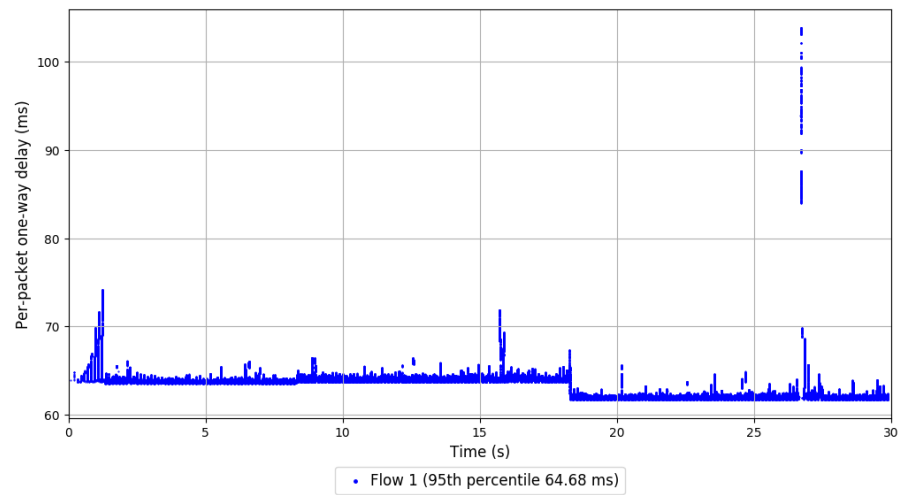
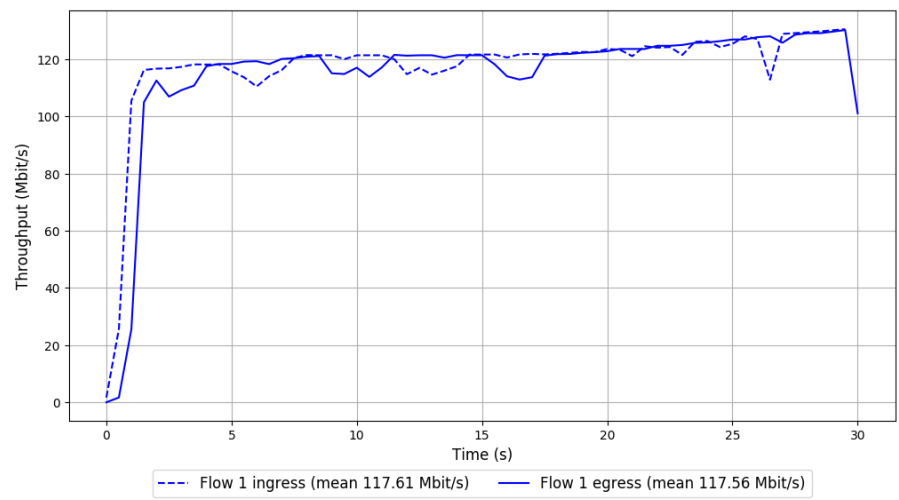
Run 9: Statistics of TCP Vegas

Start at: 2018-05-25 12:01:36  
End at: 2018-05-25 12:02:06  
Local clock offset: 0.015 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-05-25 14:18:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 117.56 Mbit/s  
95th percentile per-packet one-way delay: 64.682 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 117.56 Mbit/s  
95th percentile per-packet one-way delay: 64.682 ms  
Loss rate: 0.46%



Run 9: Report of TCP Vegas — Data Link

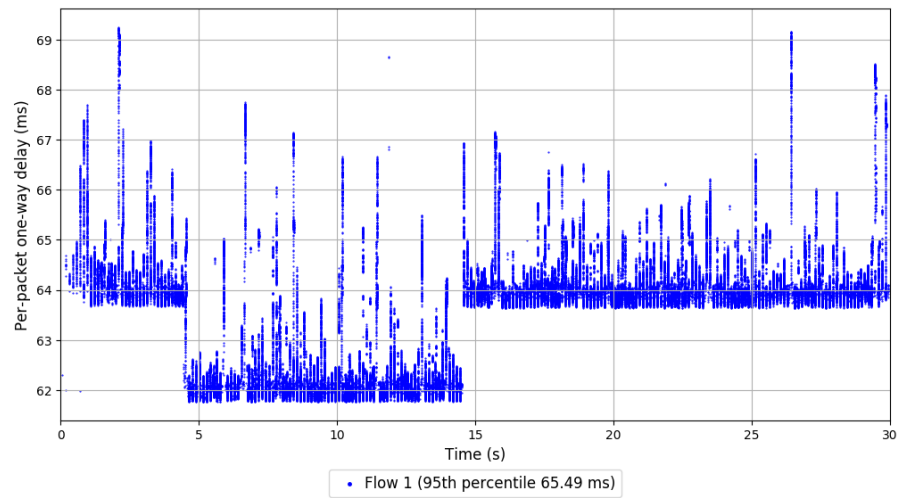
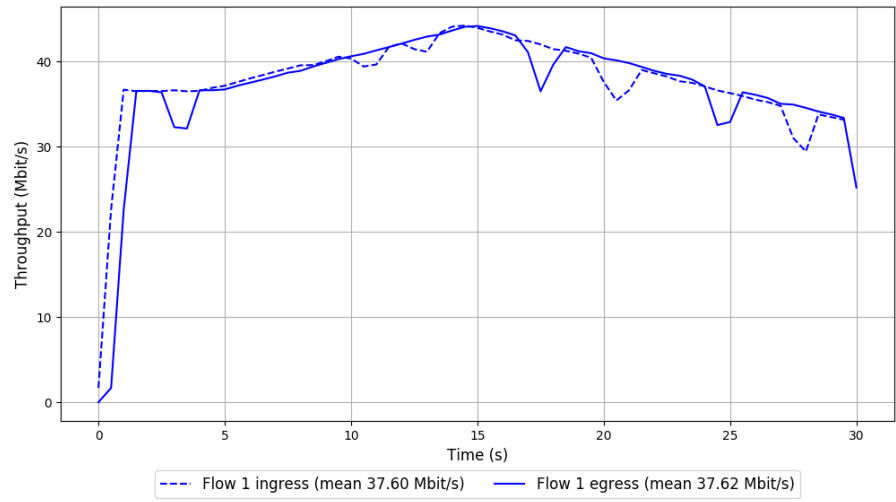


Run 10: Statistics of TCP Vegas

Start at: 2018-05-25 12:21:59  
End at: 2018-05-25 12:22:29  
Local clock offset: -0.074 ms  
Remote clock offset: -0.264 ms

# Below is generated by plot.py at 2018-05-25 14:18:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 37.62 Mbit/s  
95th percentile per-packet one-way delay: 65.487 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 37.62 Mbit/s  
95th percentile per-packet one-way delay: 65.487 ms  
Loss rate: 0.37%

# Run 10: Report of TCP Vegas — Data Link

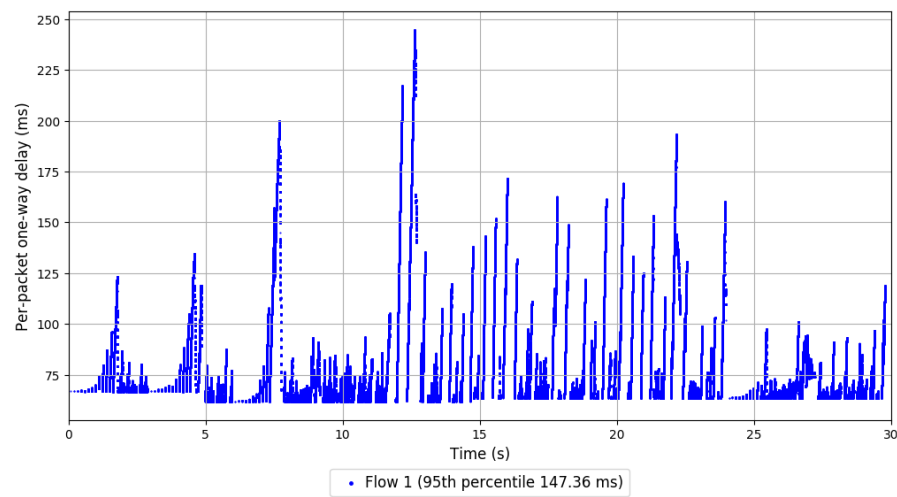
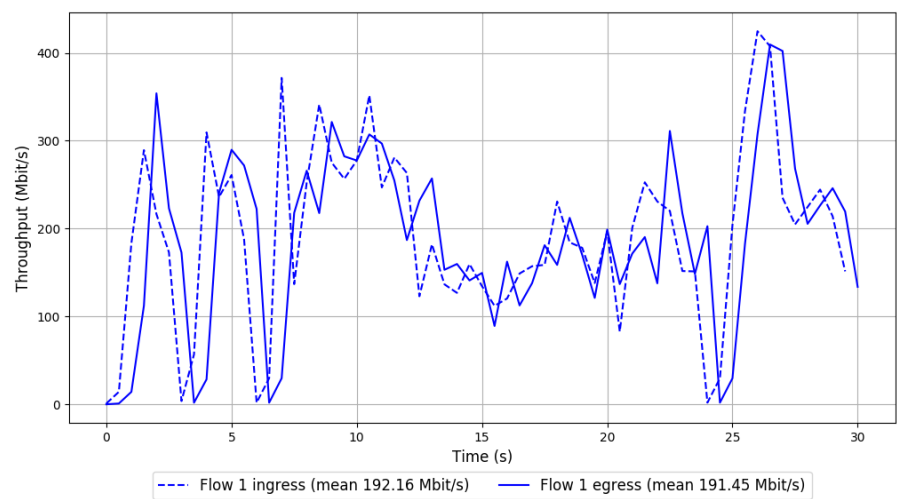


Run 1: Statistics of Verus

Start at: 2018-05-25 09:29:49  
End at: 2018-05-25 09:30:19  
Local clock offset: -0.108 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2018-05-25 14:19:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 191.45 Mbit/s  
95th percentile per-packet one-way delay: 147.360 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 191.45 Mbit/s  
95th percentile per-packet one-way delay: 147.360 ms  
Loss rate: 0.83%

Run 1: Report of Verus — Data Link

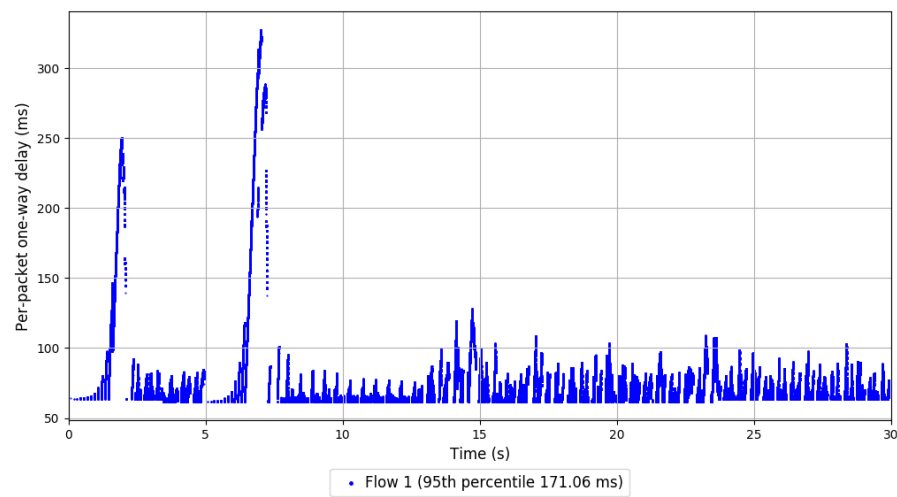
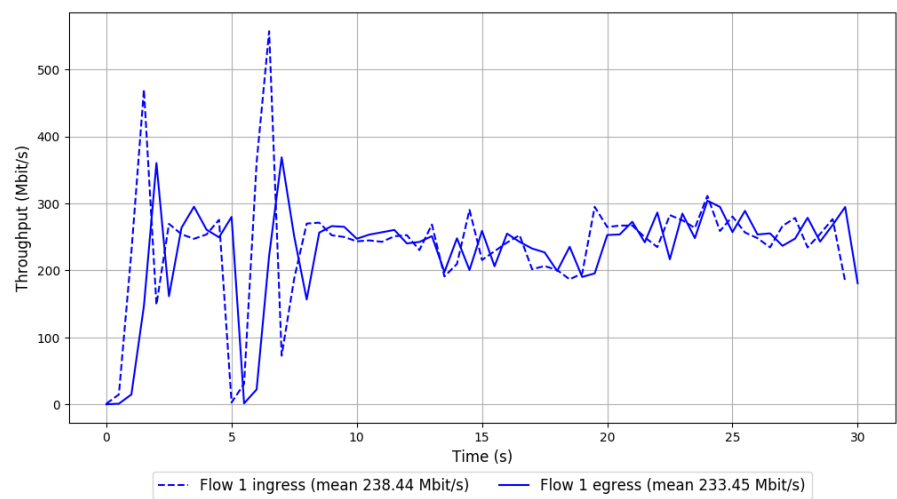


Run 2: Statistics of Verus

Start at: 2018-05-25 09:50:20  
End at: 2018-05-25 09:50:50  
Local clock offset: -0.014 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2018-05-25 14:20:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 233.45 Mbit/s  
95th percentile per-packet one-way delay: 171.060 ms  
Loss rate: 2.18%  
-- Flow 1:  
Average throughput: 233.45 Mbit/s  
95th percentile per-packet one-way delay: 171.060 ms  
Loss rate: 2.18%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-05-25 10:10:52

End at: 2018-05-25 10:11:22

Local clock offset: 0.005 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2018-05-25 14:20:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 161.704 ms

Loss rate: 1.26%

-- Flow 1:

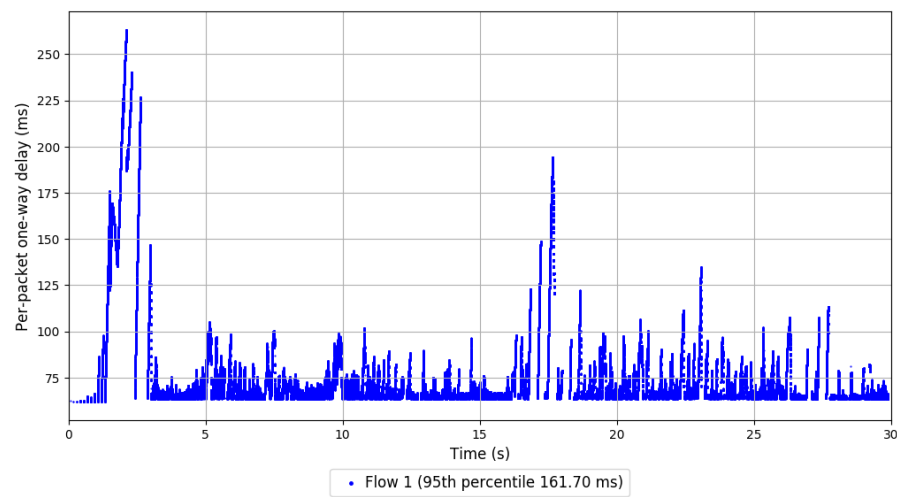
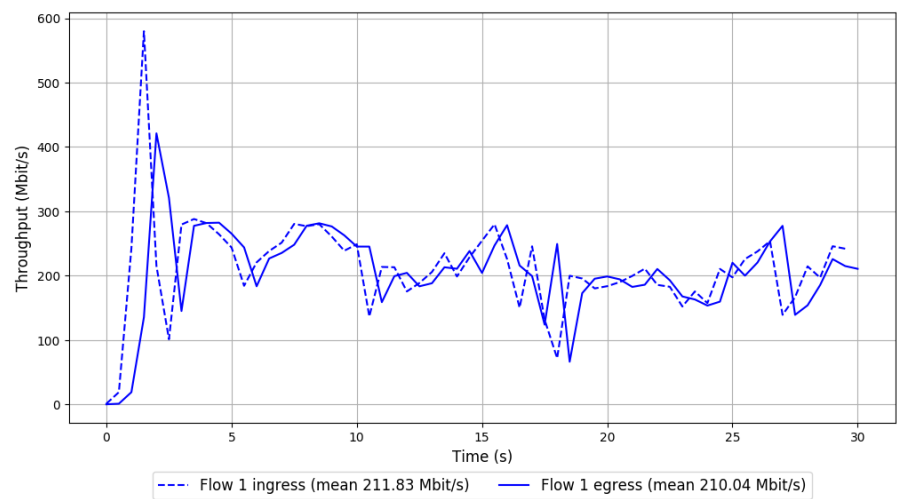
Average throughput: 210.04 Mbit/s

95th percentile per-packet one-way delay: 161.704 ms

Loss rate: 1.26%



Run 3: Report of Verus — Data Link

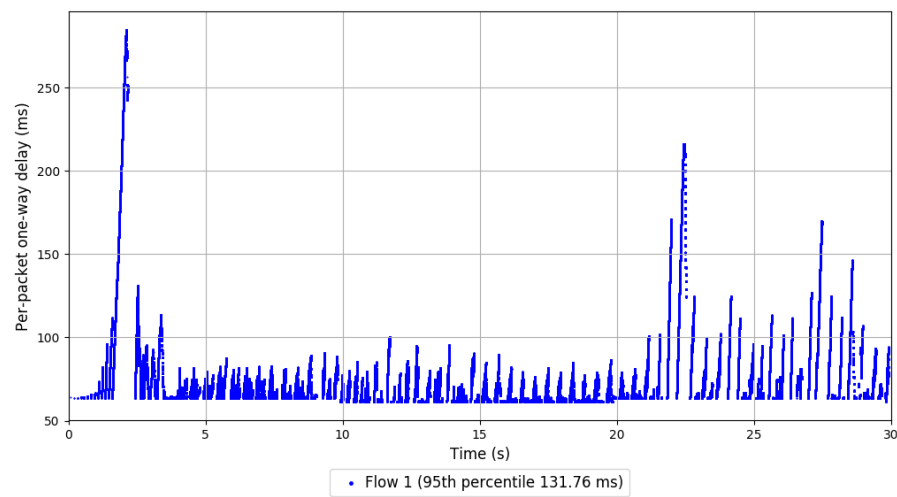
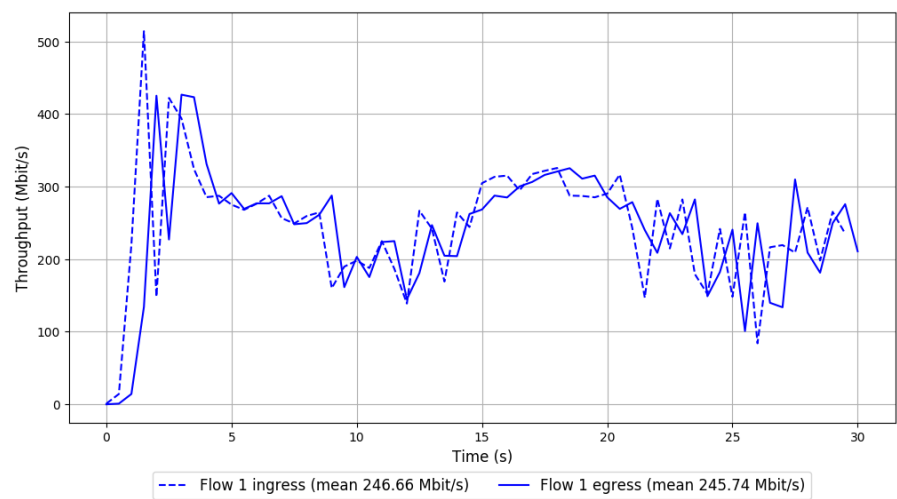


Run 4: Statistics of Verus

Start at: 2018-05-25 10:31:24  
End at: 2018-05-25 10:31:54  
Local clock offset: 0.034 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-05-25 14:21:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 245.74 Mbit/s  
95th percentile per-packet one-way delay: 131.762 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 245.74 Mbit/s  
95th percentile per-packet one-way delay: 131.762 ms  
Loss rate: 0.44%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-25 10:51:52

End at: 2018-05-25 10:52:22

Local clock offset: 0.006 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2018-05-25 14:21:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.35 Mbit/s

95th percentile per-packet one-way delay: 99.530 ms

Loss rate: 0.46%

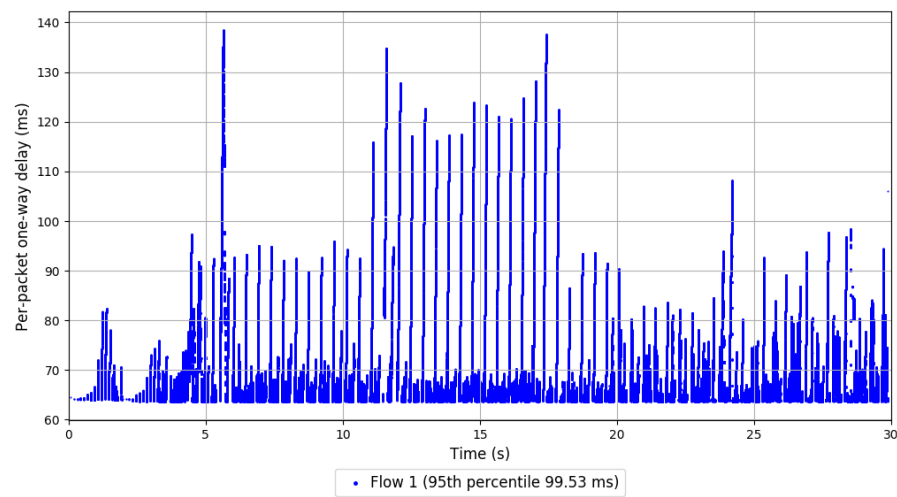
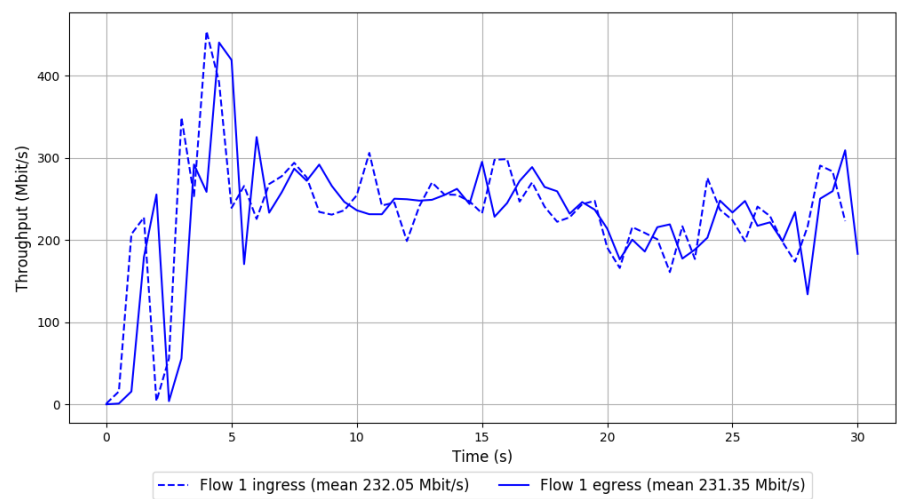
-- Flow 1:

Average throughput: 231.35 Mbit/s

95th percentile per-packet one-way delay: 99.530 ms

Loss rate: 0.46%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-05-25 11:12:17

End at: 2018-05-25 11:12:47

Local clock offset: 0.033 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-05-25 14:23:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 256.56 Mbit/s

95th percentile per-packet one-way delay: 165.696 ms

Loss rate: 0.66%

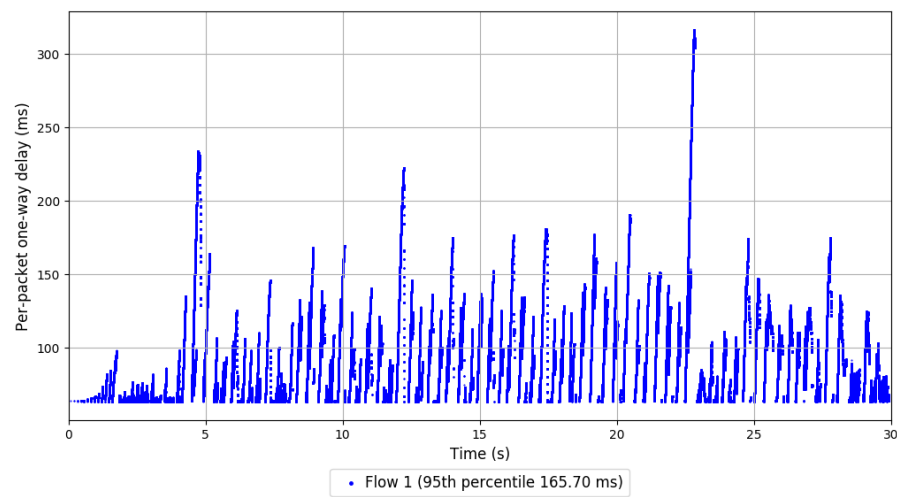
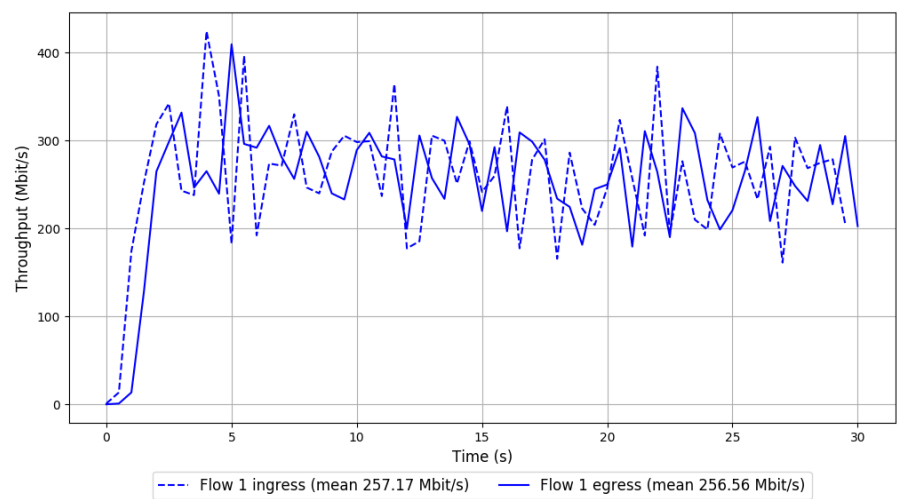
-- Flow 1:

Average throughput: 256.56 Mbit/s

95th percentile per-packet one-way delay: 165.696 ms

Loss rate: 0.66%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-25 11:33:12

End at: 2018-05-25 11:33:42

Local clock offset: 0.031 ms

Remote clock offset: 0.204 ms

# Below is generated by plot.py at 2018-05-25 14:23:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 252.35 Mbit/s

95th percentile per-packet one-way delay: 113.435 ms

Loss rate: 0.90%

-- Flow 1:

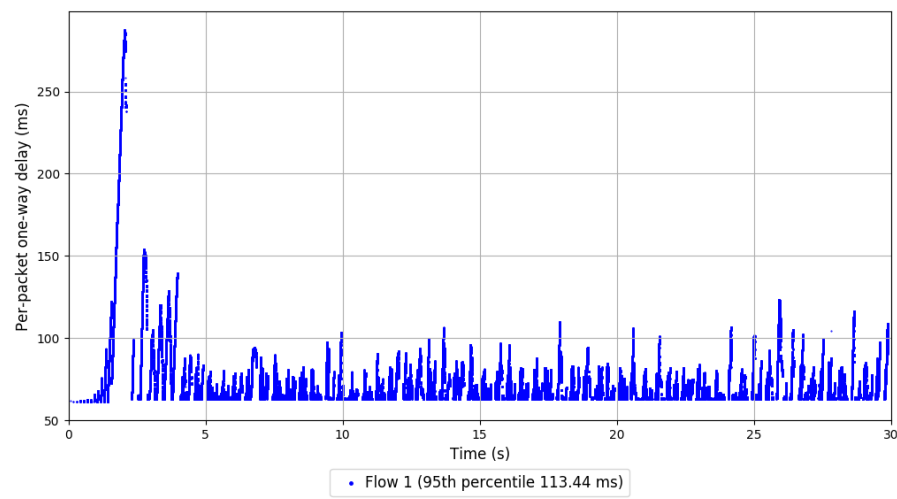
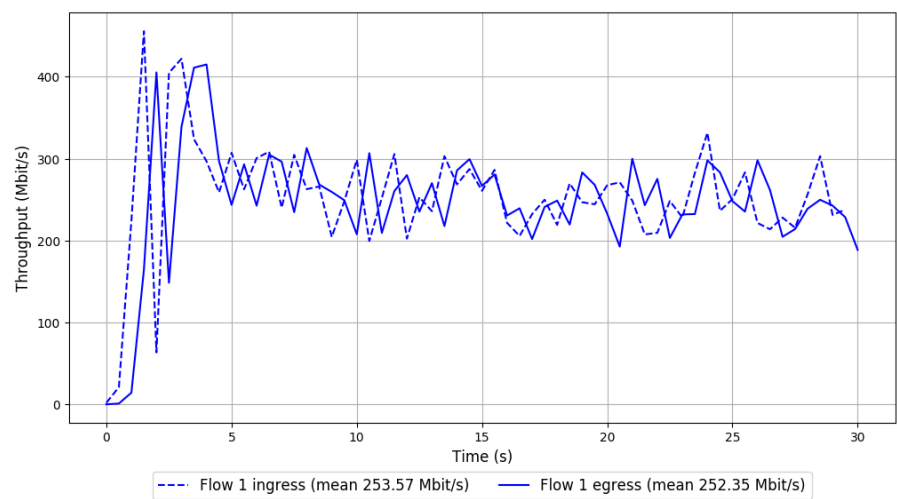
Average throughput: 252.35 Mbit/s

95th percentile per-packet one-way delay: 113.435 ms

Loss rate: 0.90%



Run 7: Report of Verus — Data Link



Run 8: Statistics of Verus

Start at: 2018-05-25 11:53:37

End at: 2018-05-25 11:54:07

Local clock offset: 0.023 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2018-05-25 14:24:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 252.97 Mbit/s

95th percentile per-packet one-way delay: 185.061 ms

Loss rate: 0.29%

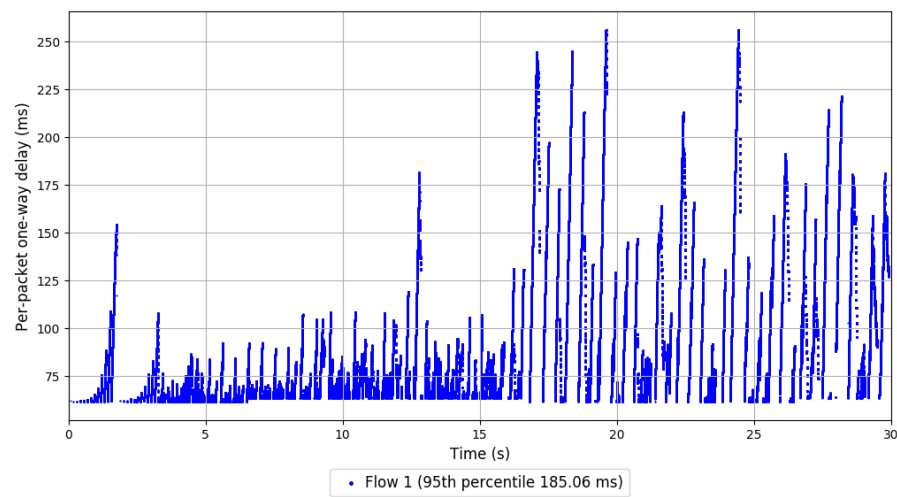
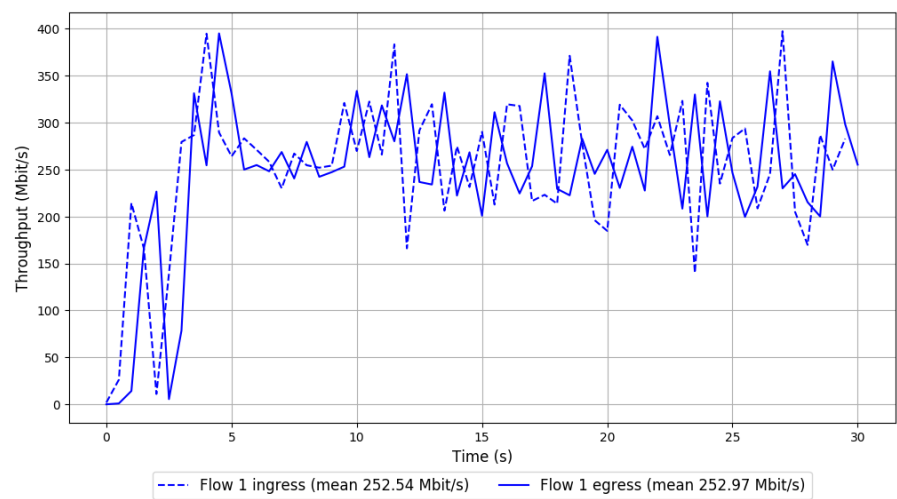
-- Flow 1:

Average throughput: 252.97 Mbit/s

95th percentile per-packet one-way delay: 185.061 ms

Loss rate: 0.29%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-25 12:14:07

End at: 2018-05-25 12:14:37

Local clock offset: -0.067 ms

Remote clock offset: 0.162 ms

# Below is generated by plot.py at 2018-05-25 14:24:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.74 Mbit/s

95th percentile per-packet one-way delay: 133.400 ms

Loss rate: 1.22%

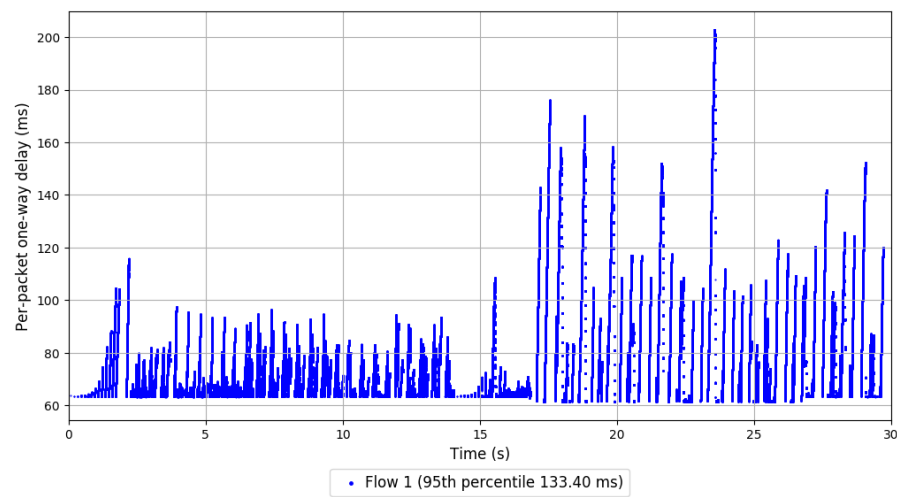
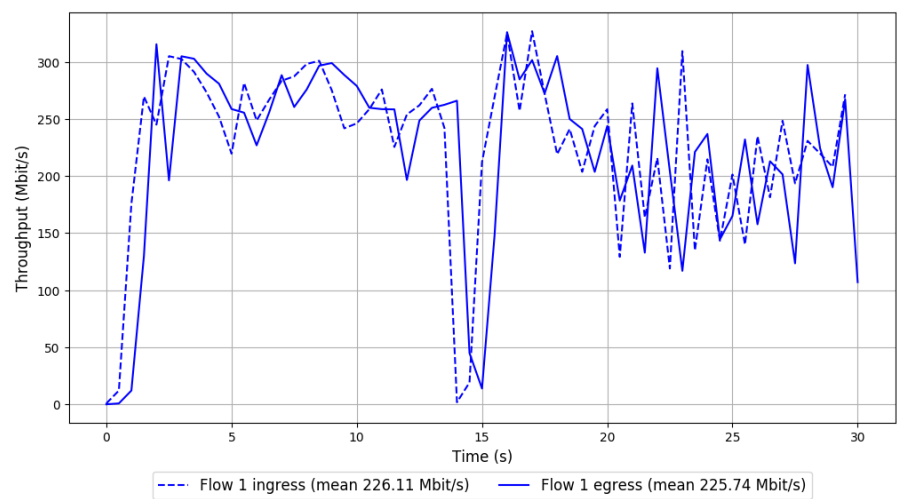
-- Flow 1:

Average throughput: 225.74 Mbit/s

95th percentile per-packet one-way delay: 133.400 ms

Loss rate: 1.22%

Run 9: Report of Verus — Data Link

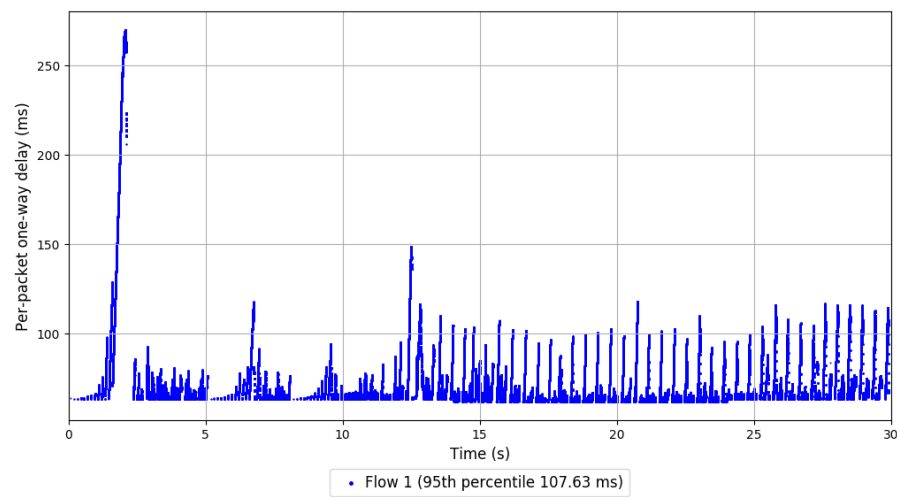
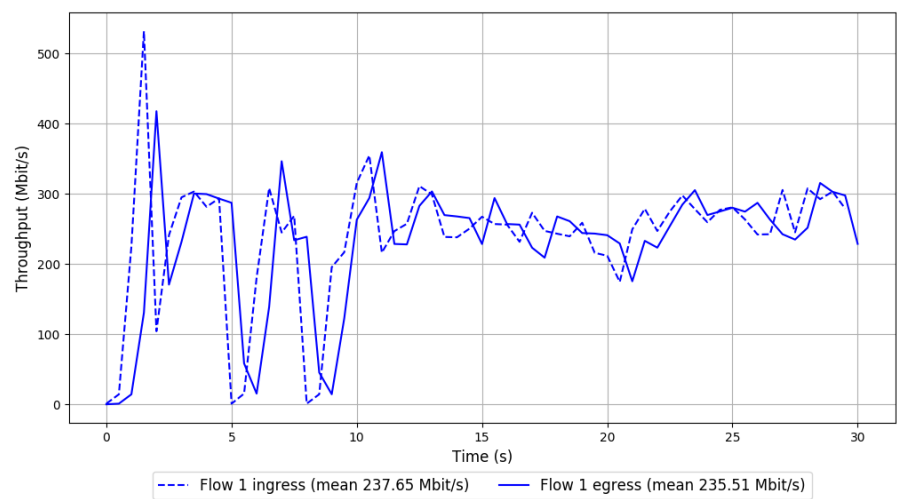


Run 10: Statistics of Verus

Start at: 2018-05-25 12:34:30  
End at: 2018-05-25 12:35:00  
Local clock offset: -0.083 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2018-05-25 14:25:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 235.51 Mbit/s  
95th percentile per-packet one-way delay: 107.628 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 235.51 Mbit/s  
95th percentile per-packet one-way delay: 107.628 ms  
Loss rate: 1.32%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-05-25 09:23:45

End at: 2018-05-25 09:24:15

Local clock offset: -0.086 ms

Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2018-05-25 14:29:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 370.38 Mbit/s

95th percentile per-packet one-way delay: 95.793 ms

Loss rate: 0.46%

-- Flow 1:

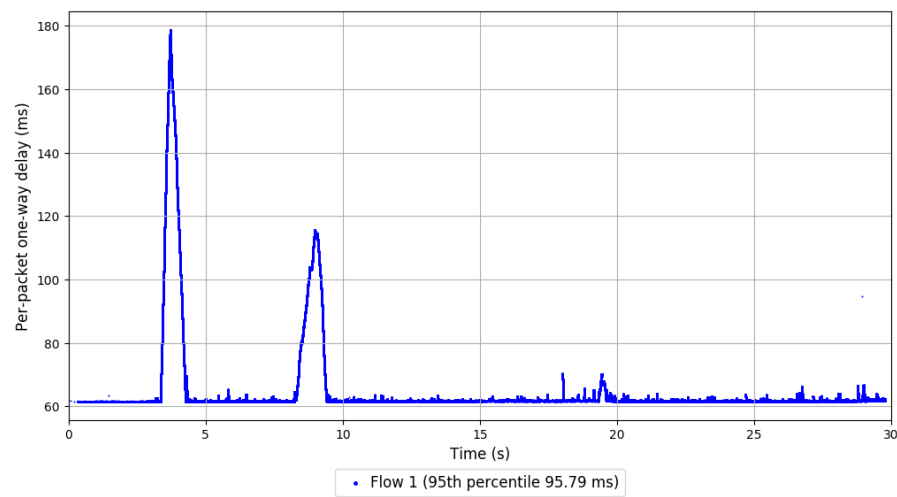
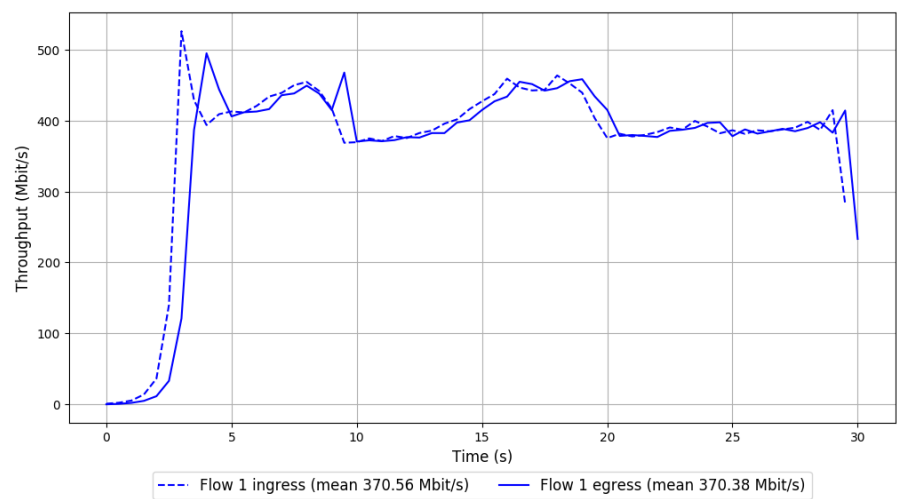
Average throughput: 370.38 Mbit/s

95th percentile per-packet one-way delay: 95.793 ms

Loss rate: 0.46%



Run 1: Report of PCC-Vivace — Data Link

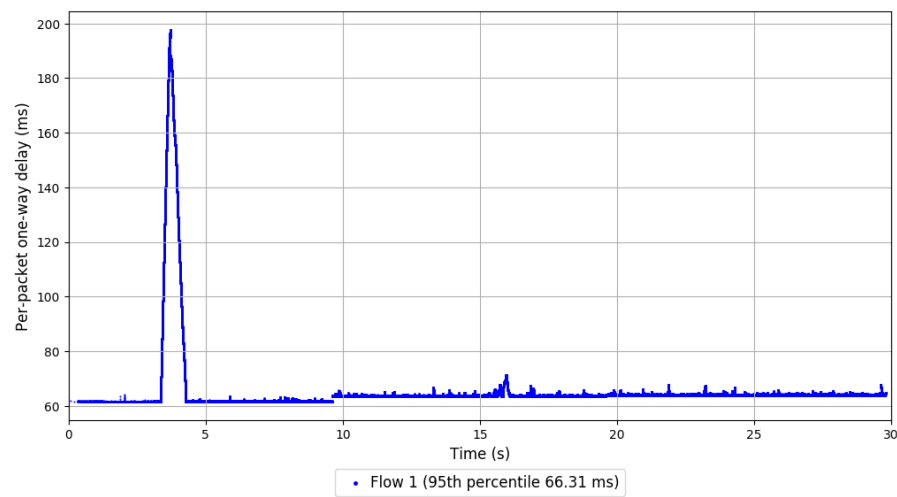
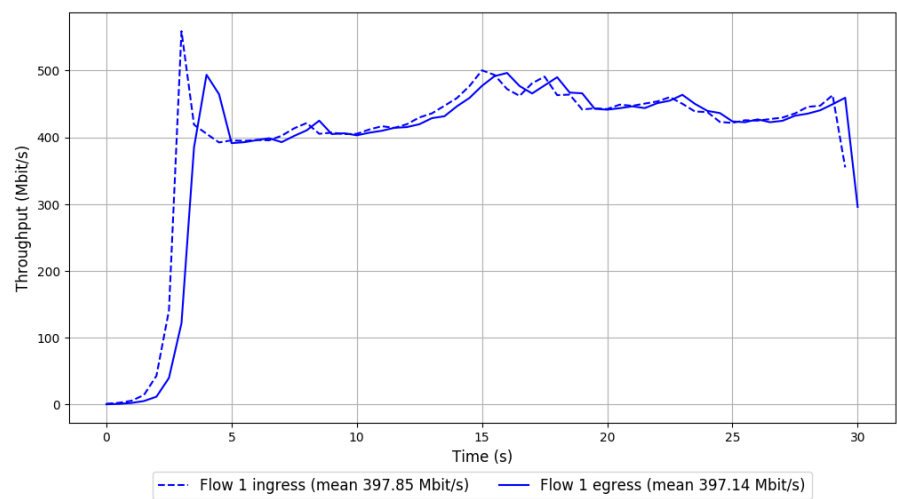


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-25 09:44:14  
End at: 2018-05-25 09:44:44  
Local clock offset: -0.098 ms  
Remote clock offset: -0.292 ms

# Below is generated by plot.py at 2018-05-25 14:30:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 397.14 Mbit/s  
95th percentile per-packet one-way delay: 66.305 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 397.14 Mbit/s  
95th percentile per-packet one-way delay: 66.305 ms  
Loss rate: 0.59%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2018-05-25 10:04:45

End at: 2018-05-25 10:05:15

Local clock offset: -0.042 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2018-05-25 14:30:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 344.20 Mbit/s

95th percentile per-packet one-way delay: 91.645 ms

Loss rate: 0.46%

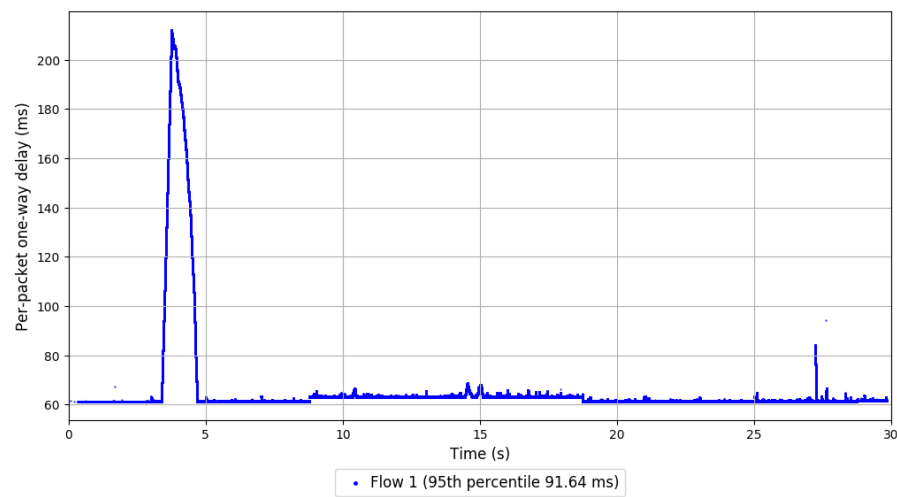
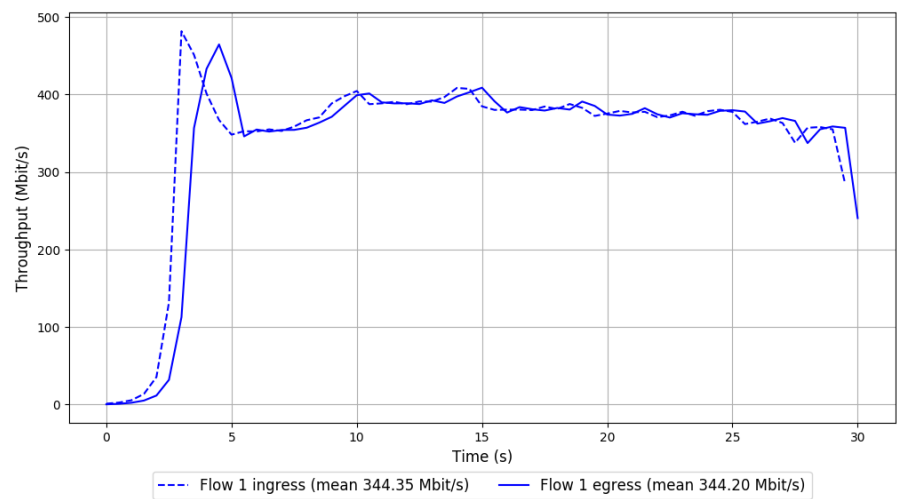
-- Flow 1:

Average throughput: 344.20 Mbit/s

95th percentile per-packet one-way delay: 91.645 ms

Loss rate: 0.46%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

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

End at: 2018-05-25 10:25:50

Local clock offset: -0.009 ms

Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2018-05-25 14:30:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 333.64 Mbit/s

95th percentile per-packet one-way delay: 121.389 ms

Loss rate: 0.72%

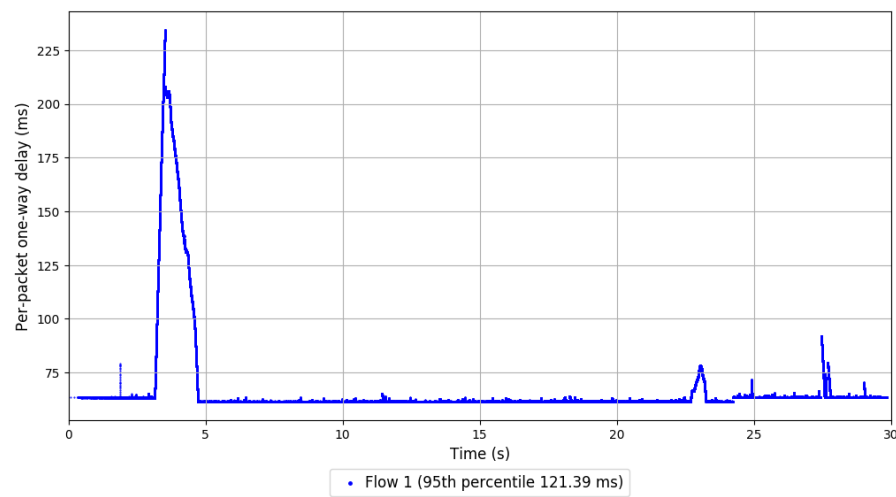
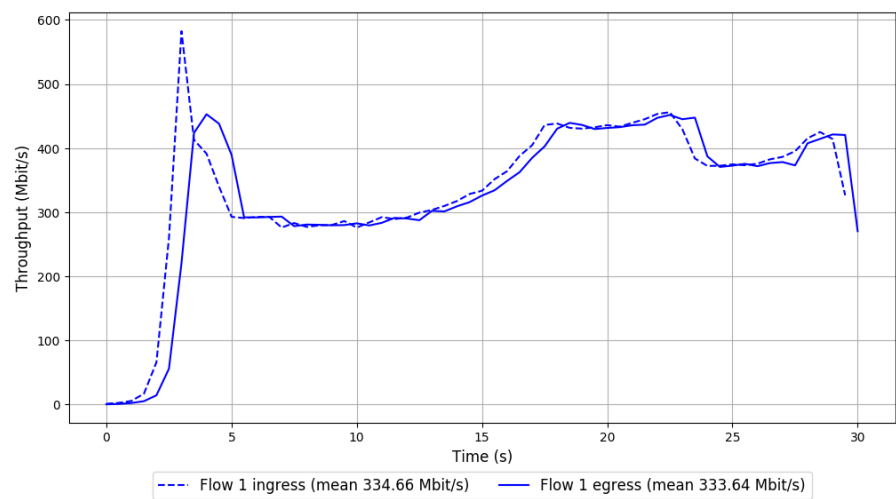
-- Flow 1:

Average throughput: 333.64 Mbit/s

95th percentile per-packet one-way delay: 121.389 ms

Loss rate: 0.72%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-05-25 10:45:48

End at: 2018-05-25 10:46:18

Local clock offset: 0.046 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-05-25 14:32:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 399.66 Mbit/s

95th percentile per-packet one-way delay: 100.627 ms

Loss rate: 0.49%

-- Flow 1:

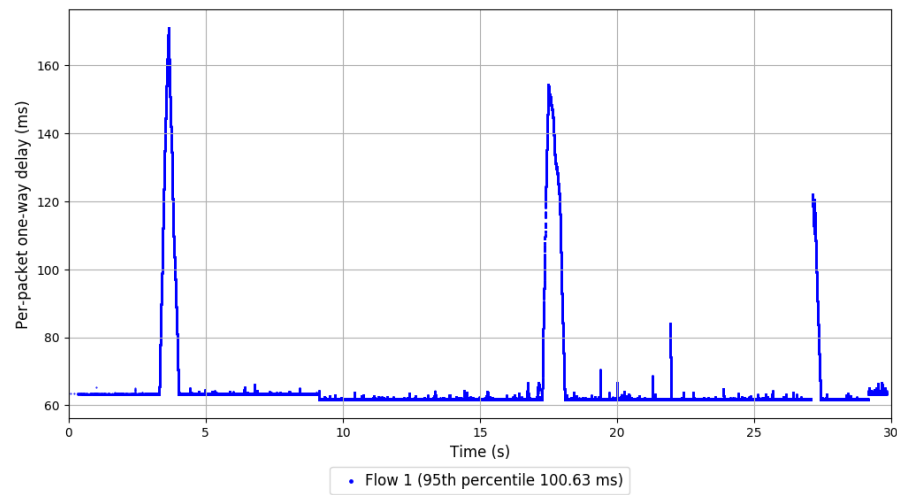
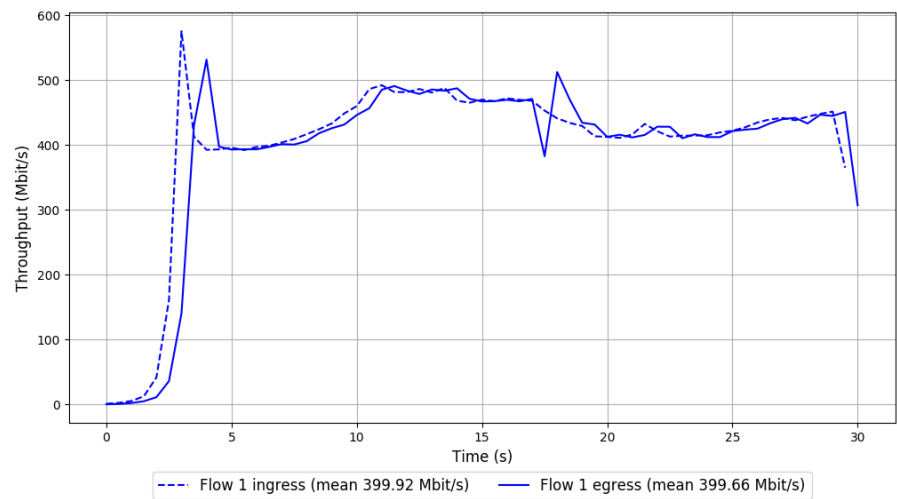
Average throughput: 399.66 Mbit/s

95th percentile per-packet one-way delay: 100.627 ms

Loss rate: 0.49%



Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-25 11:06:07

End at: 2018-05-25 11:06:37

Local clock offset: 0.028 ms

Remote clock offset: 0.326 ms

# Below is generated by plot.py at 2018-05-25 14:32:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 359.53 Mbit/s

95th percentile per-packet one-way delay: 104.399 ms

Loss rate: 0.74%

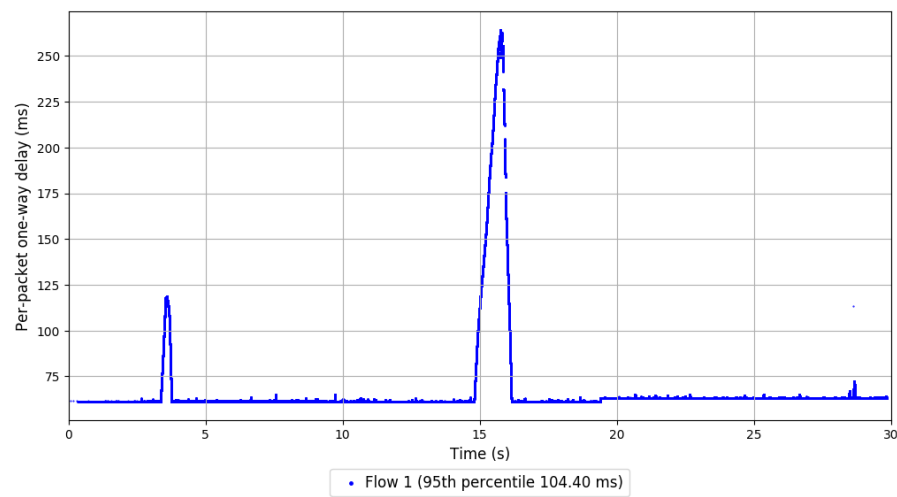
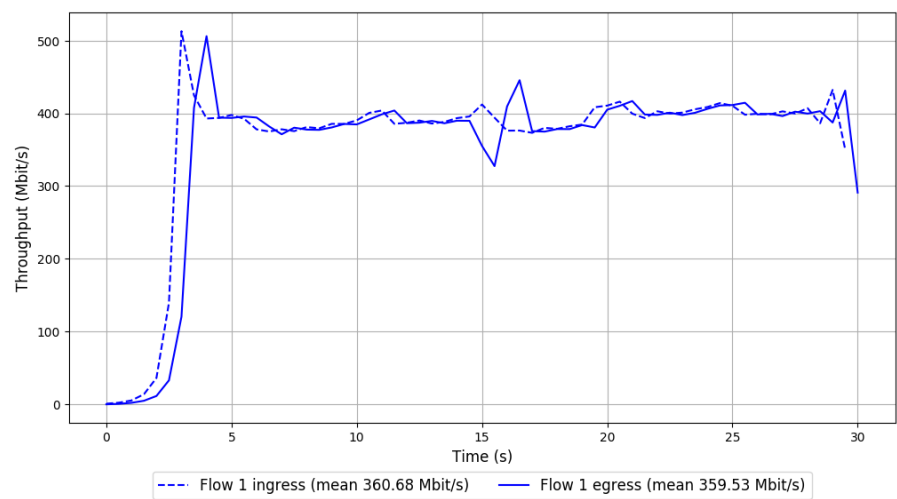
-- Flow 1:

Average throughput: 359.53 Mbit/s

95th percentile per-packet one-way delay: 104.399 ms

Loss rate: 0.74%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-25 11:26:58

End at: 2018-05-25 11:27:28

Local clock offset: 0.031 ms

Remote clock offset: 0.091 ms

# Below is generated by plot.py at 2018-05-25 14:32:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 367.28 Mbit/s

95th percentile per-packet one-way delay: 71.231 ms

Loss rate: 0.51%

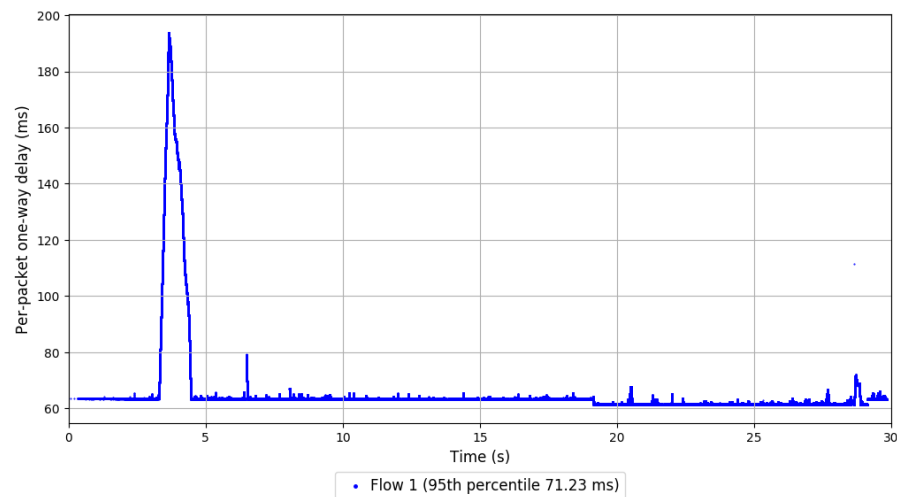
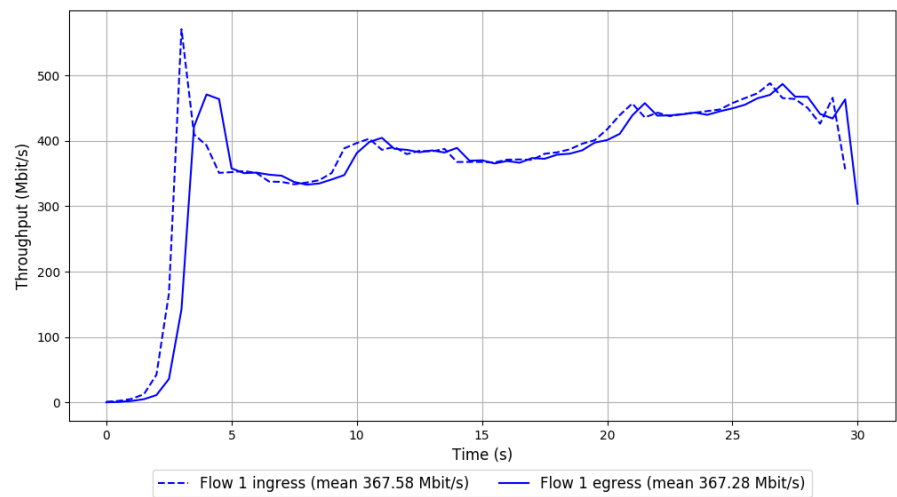
-- Flow 1:

Average throughput: 367.28 Mbit/s

95th percentile per-packet one-way delay: 71.231 ms

Loss rate: 0.51%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-05-25 11:47:23

End at: 2018-05-25 11:47:53

Local clock offset: 0.02 ms

Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2018-05-25 14:32:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 383.30 Mbit/s

95th percentile per-packet one-way delay: 70.543 ms

Loss rate: 0.75%

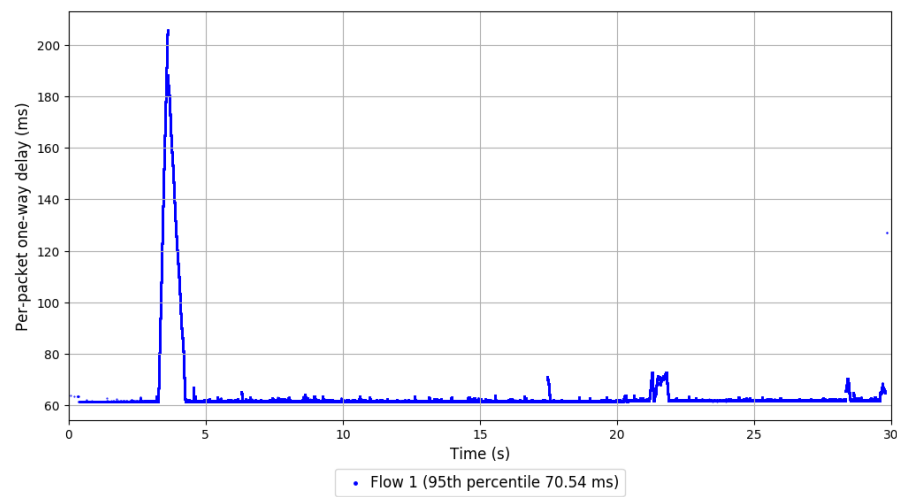
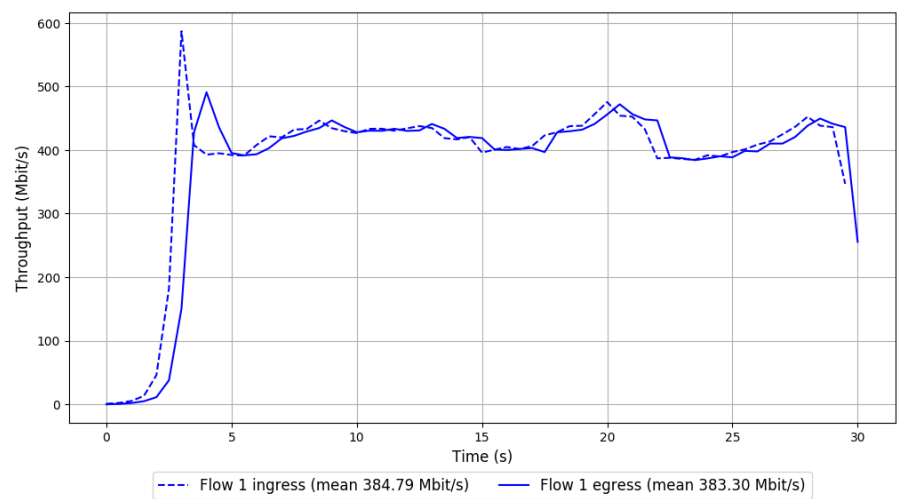
-- Flow 1:

Average throughput: 383.30 Mbit/s

95th percentile per-packet one-way delay: 70.543 ms

Loss rate: 0.75%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-25 12:08:00

End at: 2018-05-25 12:08:30

Local clock offset: -0.029 ms

Remote clock offset: 0.146 ms

# Below is generated by plot.py at 2018-05-25 14:33:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.39 Mbit/s

95th percentile per-packet one-way delay: 82.473 ms

Loss rate: 0.58%

-- Flow 1:

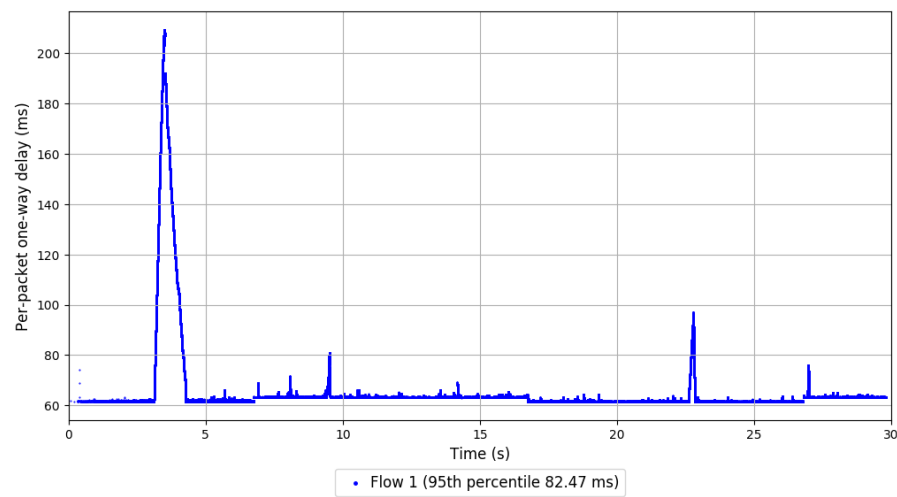
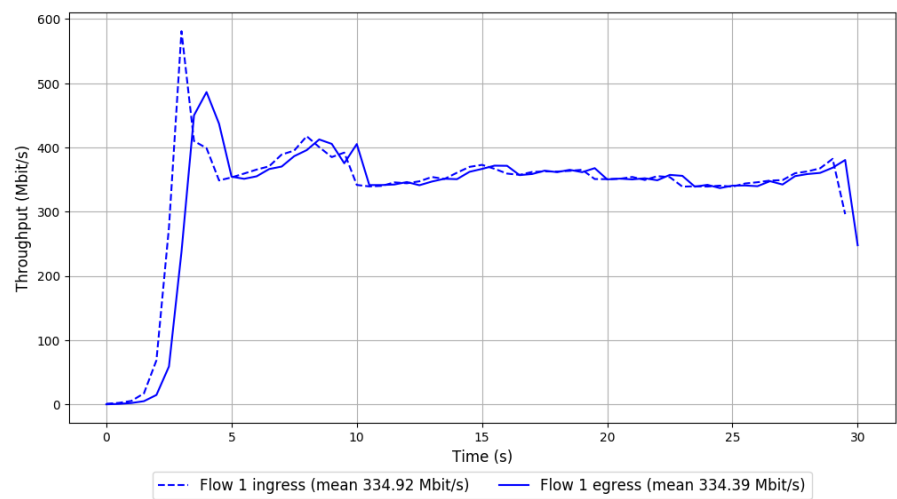
Average throughput: 334.39 Mbit/s

95th percentile per-packet one-way delay: 82.473 ms

Loss rate: 0.58%



Run 9: Report of PCC-Vivace — Data Link

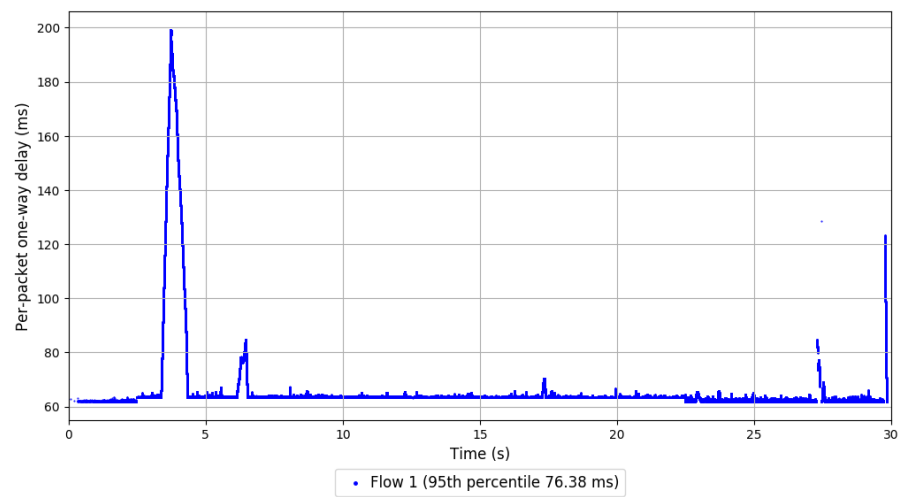
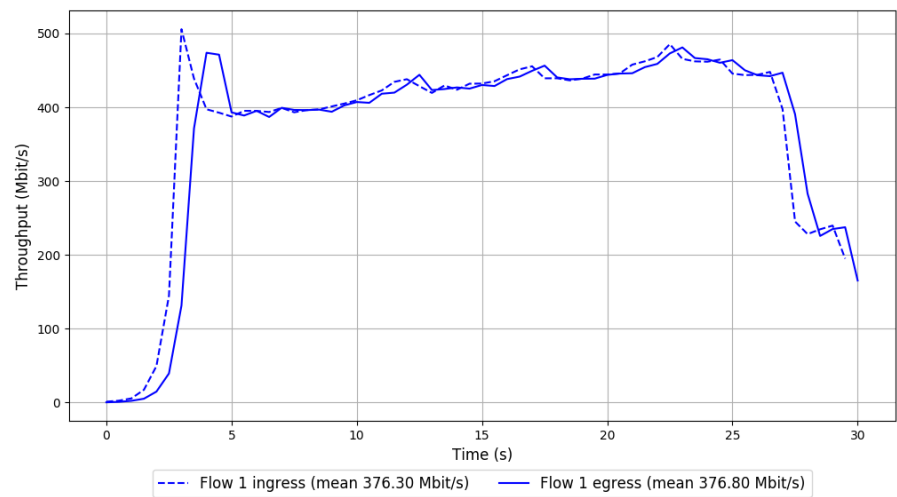


Run 10: Statistics of PCC-Vivace

Start at: 2018-05-25 12:28:21  
End at: 2018-05-25 12:28:51  
Local clock offset: -0.066 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2018-05-25 14:33:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 376.80 Mbit/s  
95th percentile per-packet one-way delay: 76.379 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 376.80 Mbit/s  
95th percentile per-packet one-way delay: 76.379 ms  
Loss rate: 0.28%

Run 10: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2018-05-25 09:28:43

End at: 2018-05-25 09:29:13

Local clock offset: -0.061 ms

Remote clock offset: 0.245 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.924 ms

Loss rate: 0.00%

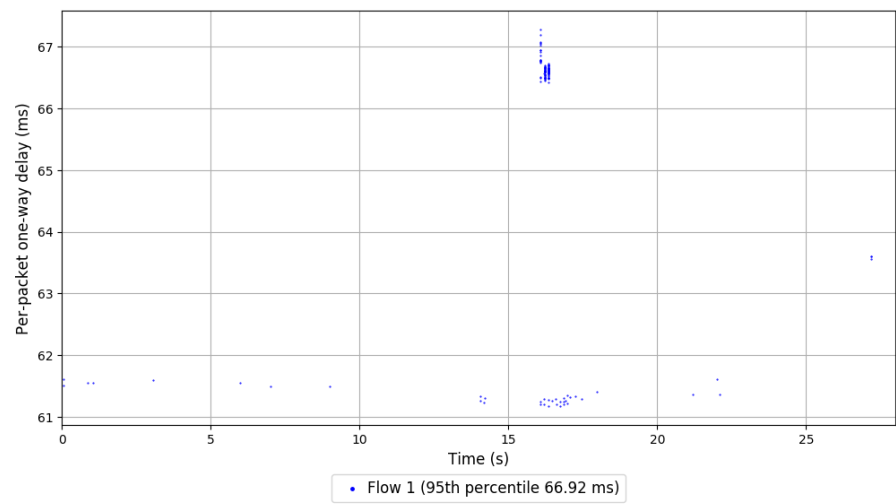
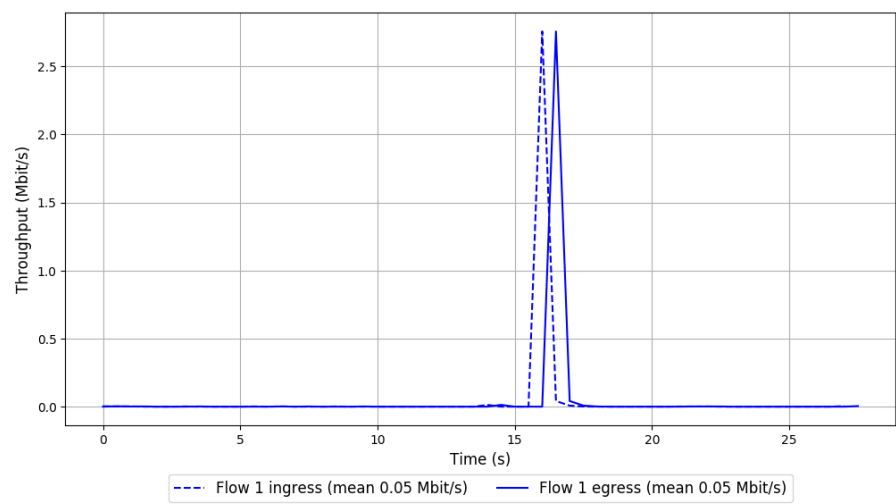
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 66.924 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-25 09:49:15

End at: 2018-05-25 09:49:45

Local clock offset: -0.038 ms

Remote clock offset: 0.353 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.00%

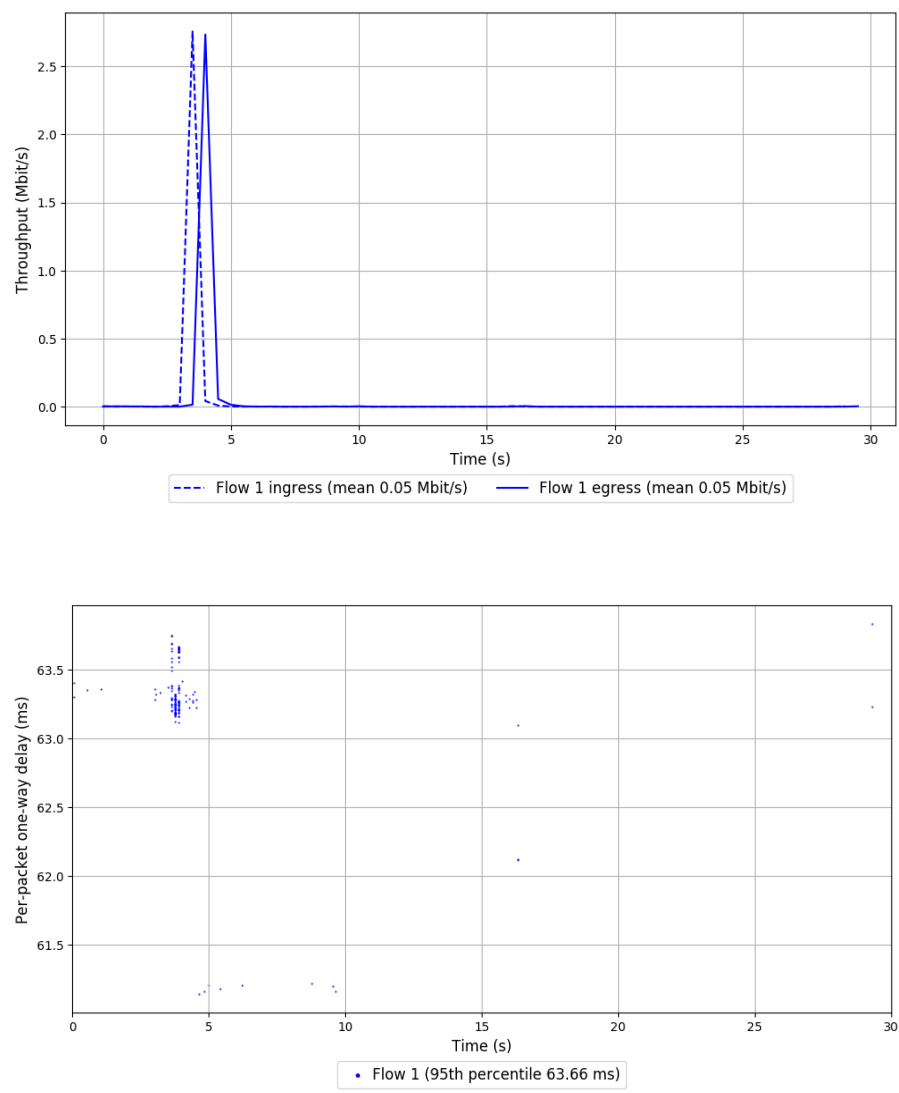
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.657 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-05-25 10:09:47

End at: 2018-05-25 10:10:17

Local clock offset: -0.018 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 0.00%

-- Flow 1:

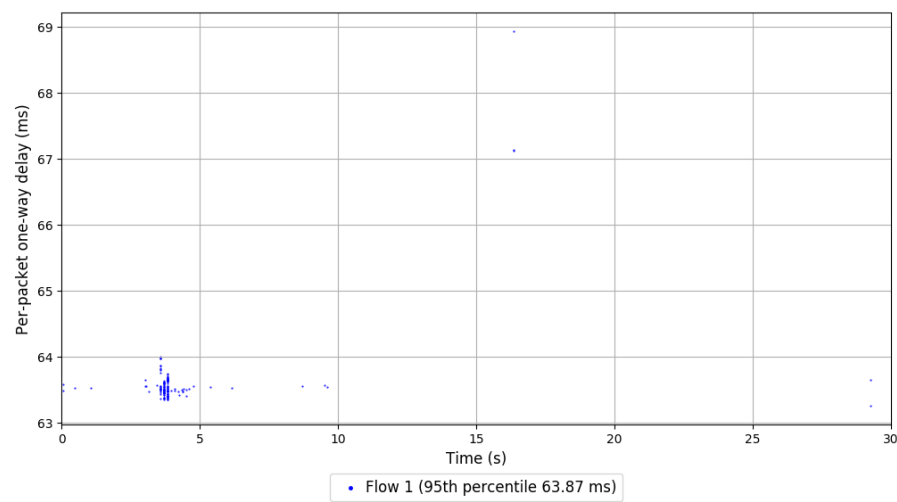
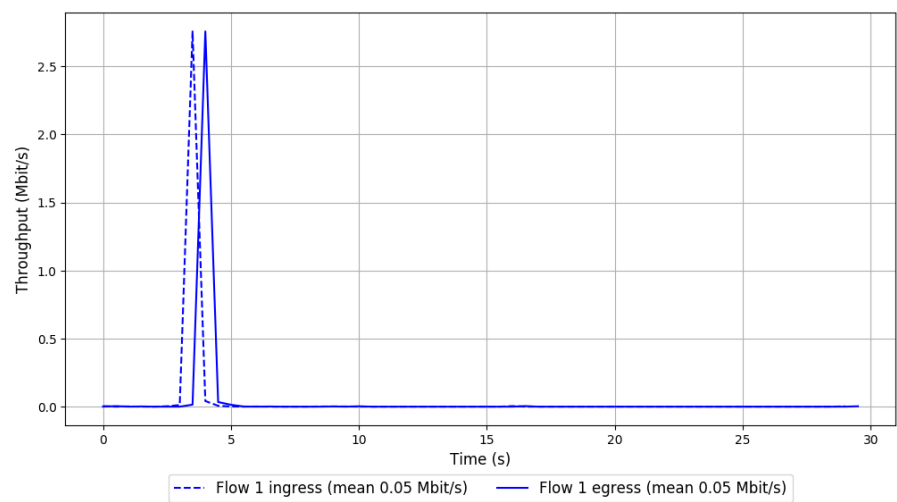
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.866 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-05-25 10:30:18

End at: 2018-05-25 10:30:48

Local clock offset: -0.024 ms

Remote clock offset: 0.258 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.283 ms

Loss rate: 0.00%

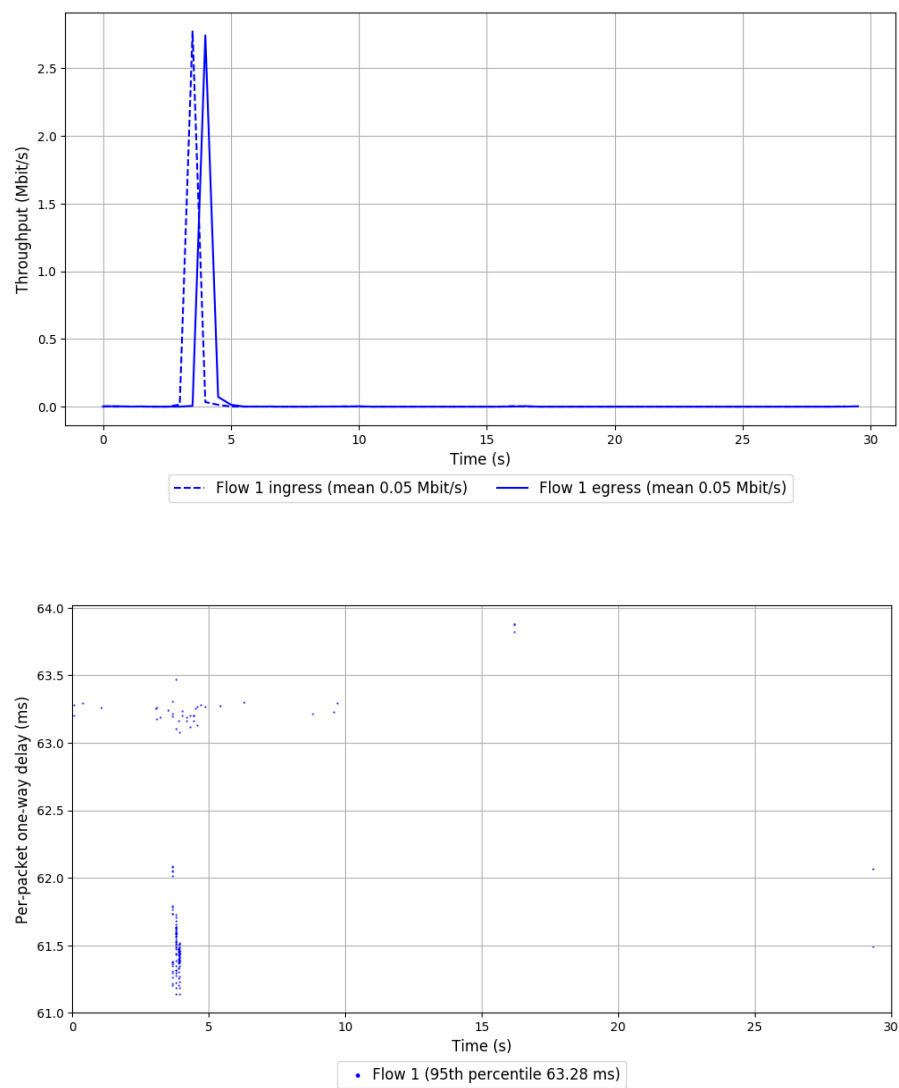
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.283 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link

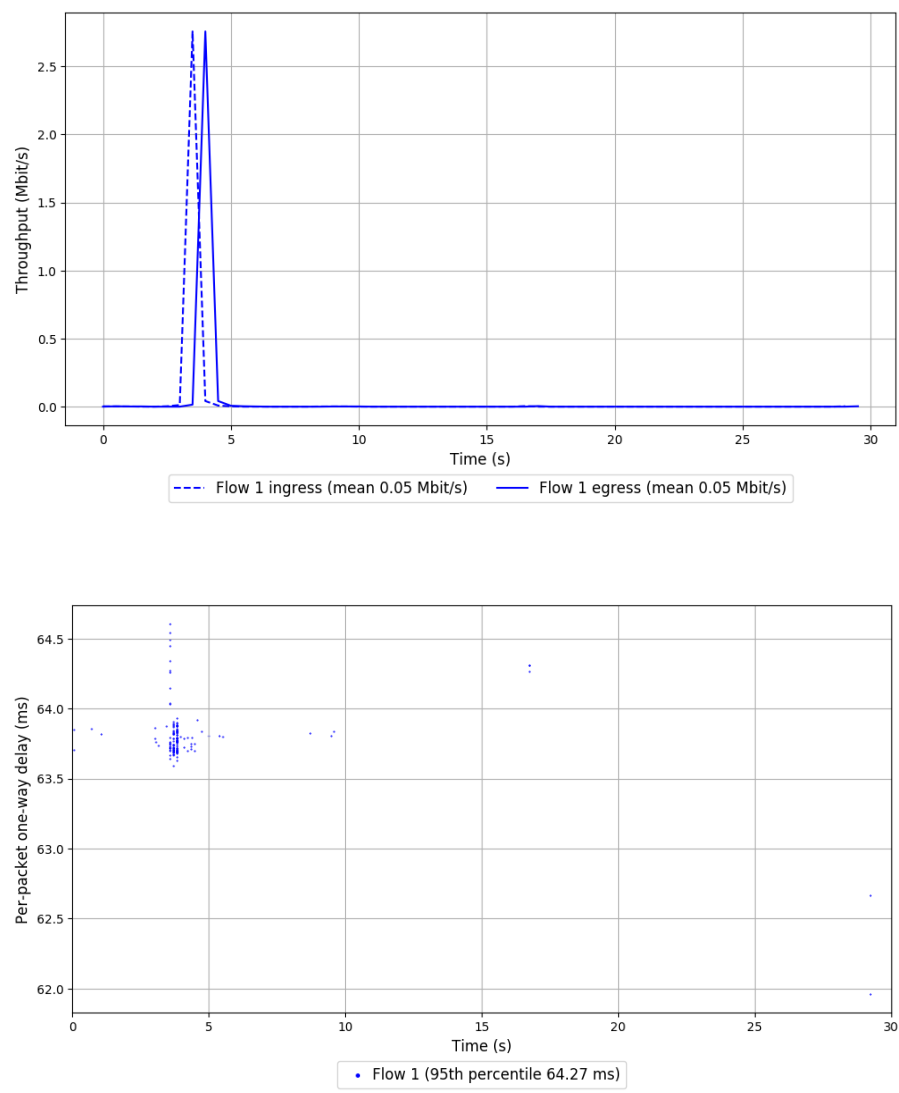


Run 5: Statistics of WebRTC media

Start at: 2018-05-25 10:50:46  
End at: 2018-05-25 10:51:16  
Local clock offset: 0.027 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-05-25 14:33:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 64.267 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 64.267 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

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

End at: 2018-05-25 11:11:41

Local clock offset: -0.007 ms

Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.065 ms

Loss rate: 0.00%

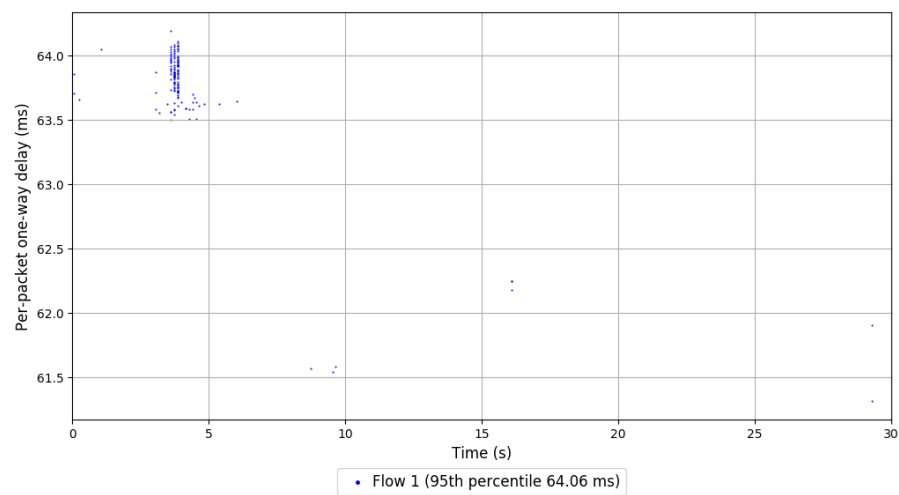
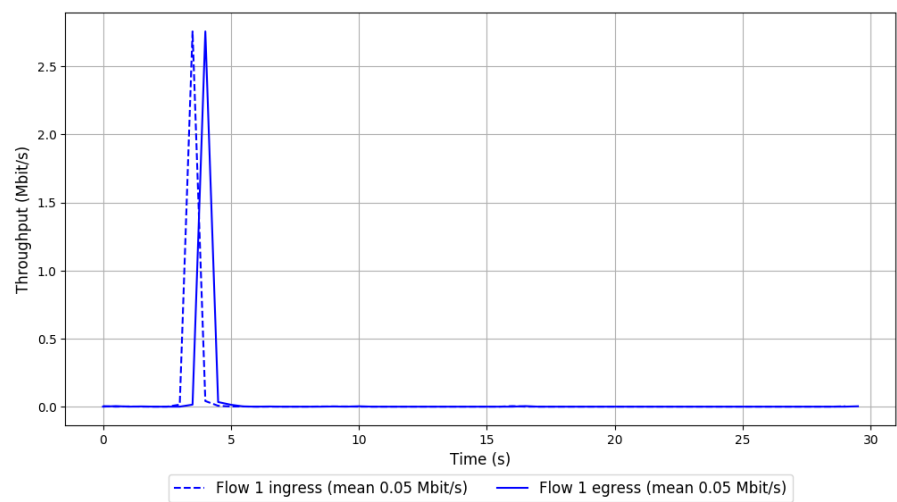
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 64.065 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-05-25 11:32:06

End at: 2018-05-25 11:32:36

Local clock offset: 0.044 ms

Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.00%

-- Flow 1:

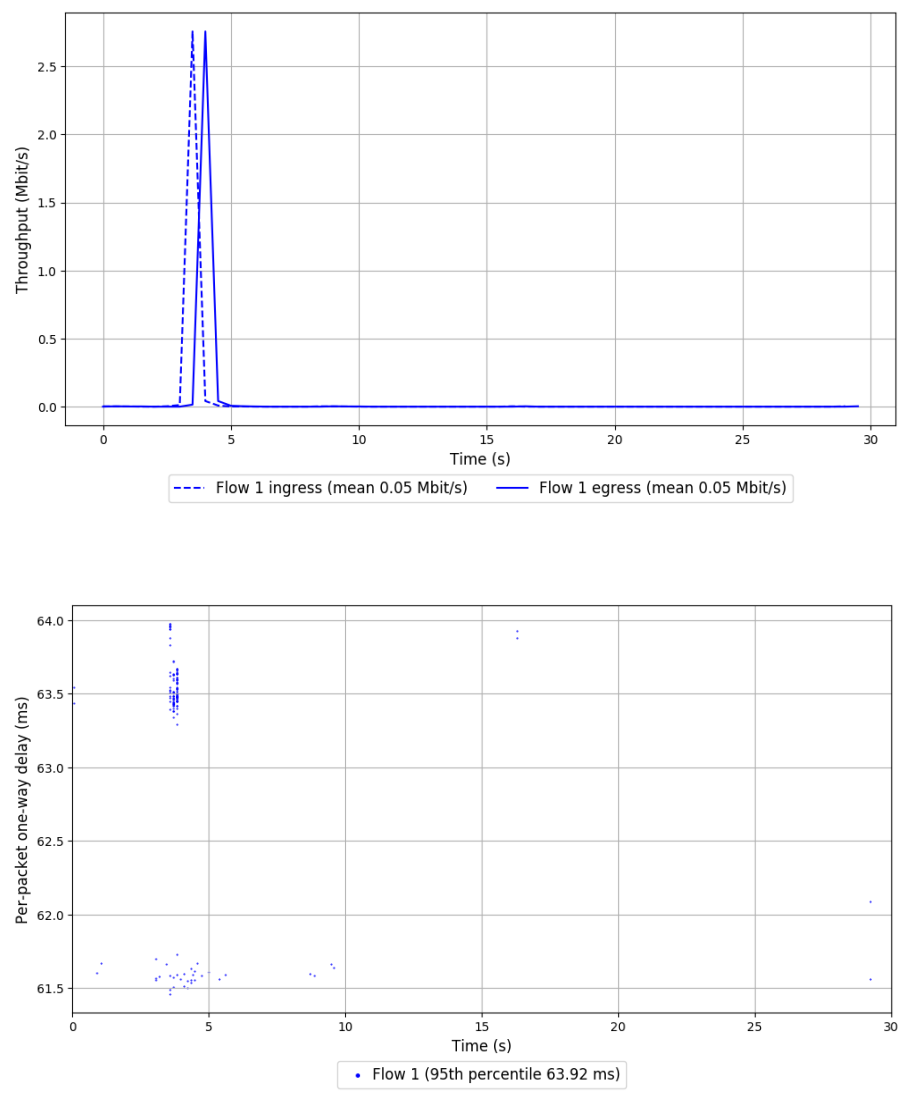
Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.925 ms

Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-25 11:52:32

End at: 2018-05-25 11:53:02

Local clock offset: 0.021 ms

Remote clock offset: 0.261 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.745 ms

Loss rate: 0.00%

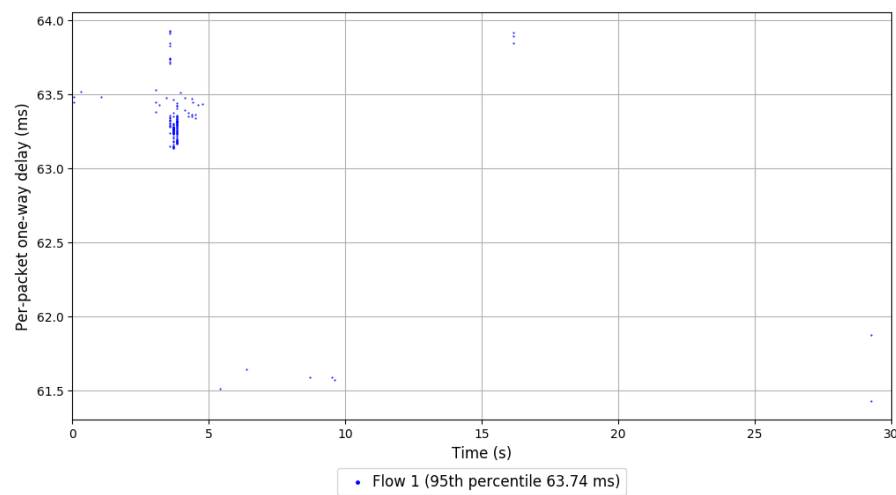
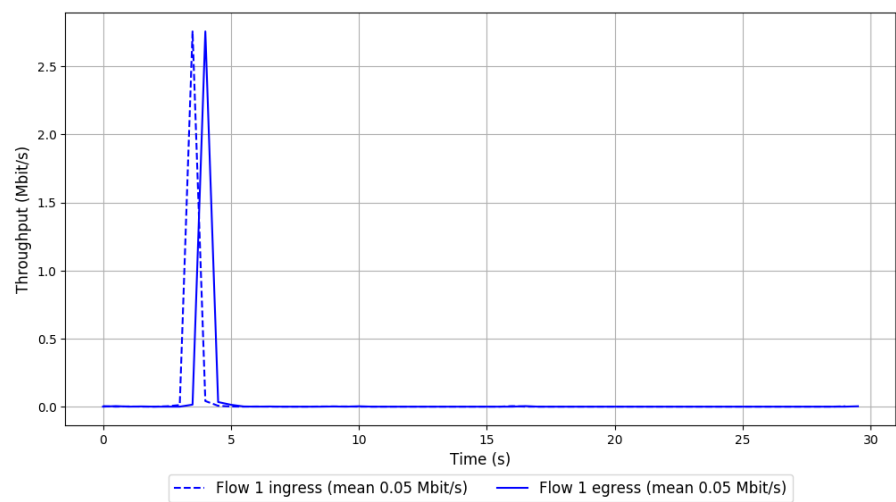
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.745 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link



Run 9: Statistics of WebRTC media

Start at: 2018-05-25 12:13:02

End at: 2018-05-25 12:13:32

Local clock offset: -0.021 ms

Remote clock offset: 0.046 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.284 ms

Loss rate: 0.00%

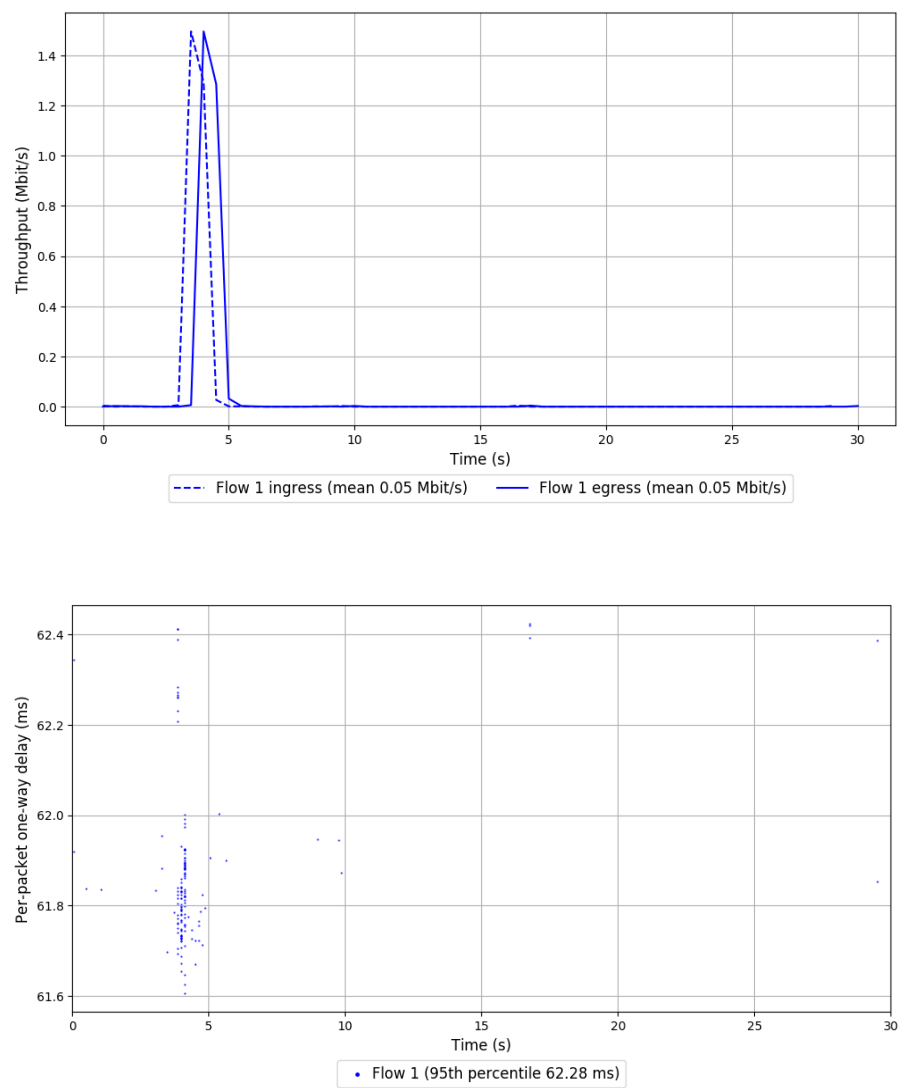
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.284 ms

Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-25 12:33:24

End at: 2018-05-25 12:33:54

Local clock offset: -0.101 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2018-05-25 14:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.957 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

