

## Pantheon Report

Generated at 2018-06-06 05:57:29 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 1 flow.

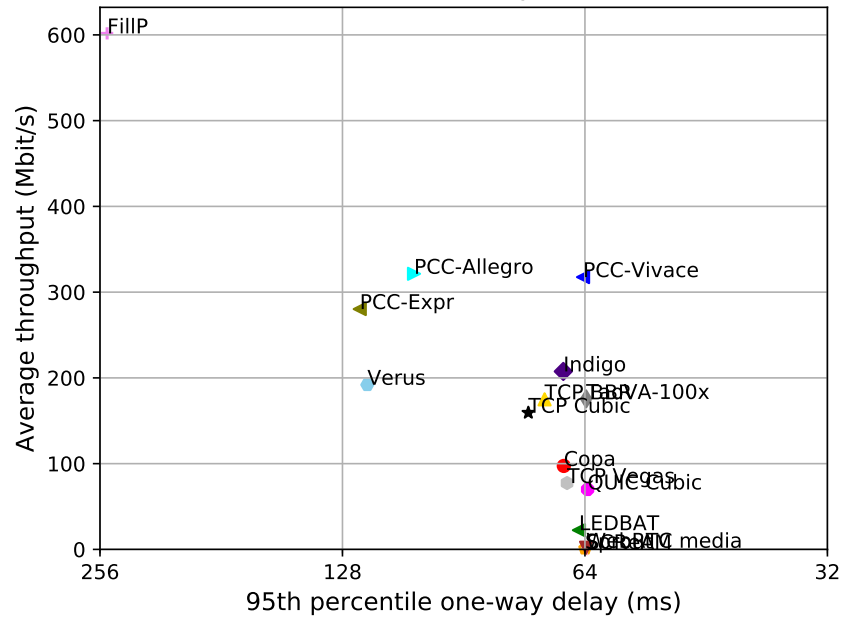
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

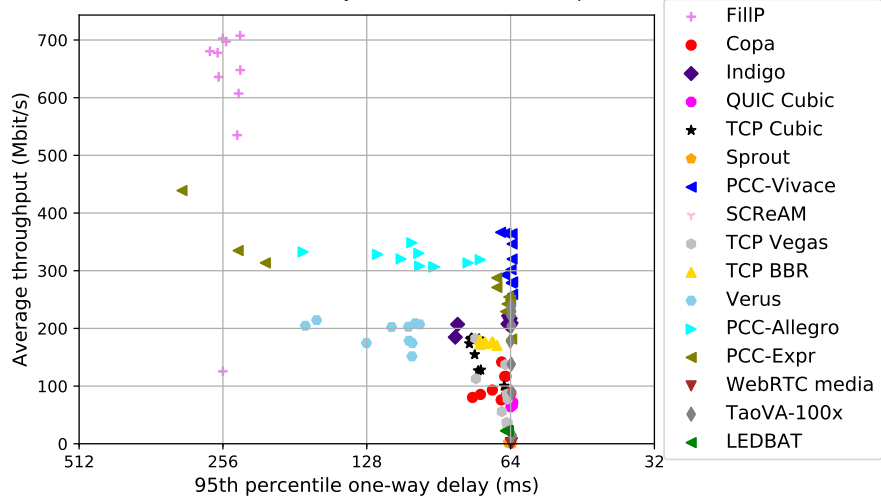
Git summary:

```
branch: master @ 227fdf9a3757f17b88537cceed5743a33037a3d2
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quirk @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webRTC @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



test from GCE Iowa to GCE Tokyo, 10 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	10	175.01	71.83	0.00
Copa	10	97.33	67.99	0.00
TCP Cubic	10	159.33	75.25	0.01
FillP	10	601.76	250.83	0.86
Indigo	10	207.54	68.09	0.01
LEDBAT	10	22.41	65.11	0.00
PCC-Allegro	10	321.39	104.32	0.27
PCC-Expr	10	280.26	121.84	2.67
QUIC Cubic	9	69.96	63.52	0.00
SCReAM	10	0.22	63.72	0.00
Sprout	10	1.01	63.98	0.00
TaoVA-100x	10	175.46	63.78	0.00
TCP Vegas	10	77.38	67.36	0.01
Verus	10	191.97	119.23	0.12
PCC-Vivace	10	317.54	64.35	0.00
WebRTC media	10	1.95	63.80	0.01

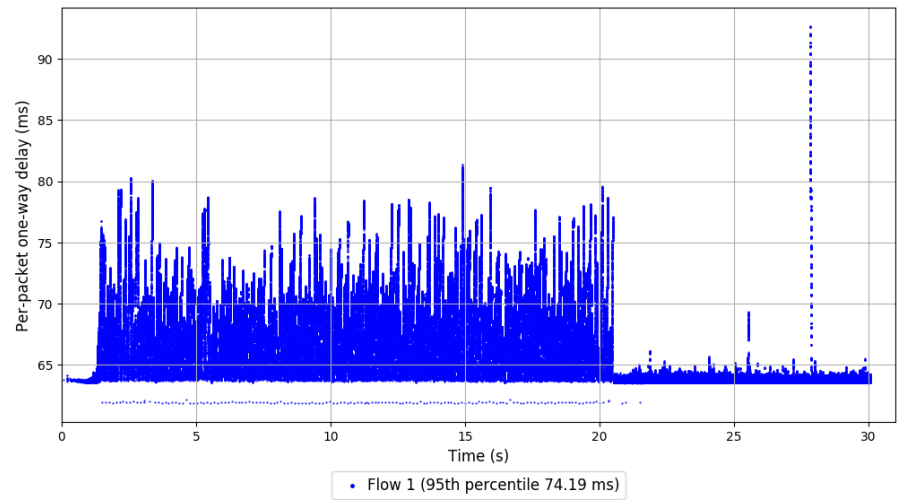
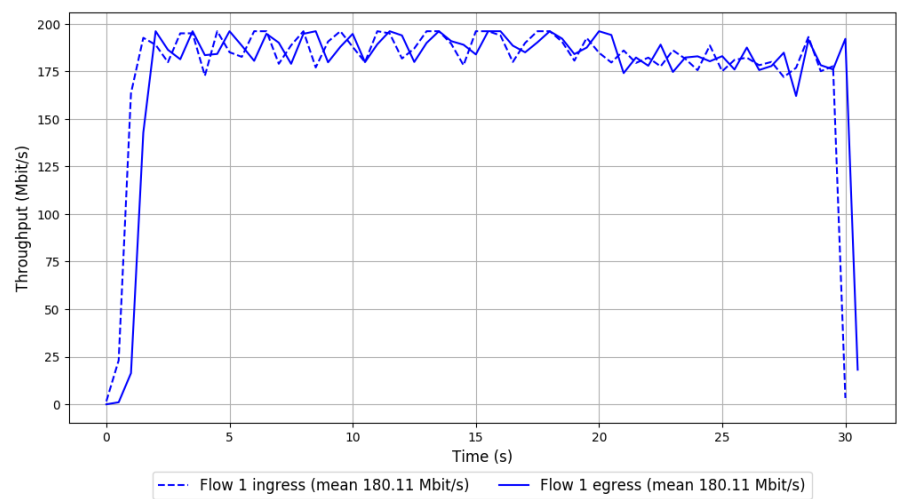
Run 1: Statistics of TCP BBR

Start at: 2018-06-06 01:29:39  
End at: 2018-06-06 01:30:09  
Local clock offset: -0.022 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2018-06-06 04:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 180.11 Mbit/s  
95th percentile per-packet one-way delay: 74.189 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 180.11 Mbit/s  
95th percentile per-packet one-way delay: 74.189 ms  
Loss rate: 0.00%



Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-06-06 01:49:45

End at: 2018-06-06 01:50:15

Local clock offset: -0.077 ms

Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2018-06-06 04:48:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.48 Mbit/s

95th percentile per-packet one-way delay: 72.508 ms

Loss rate: 0.00%

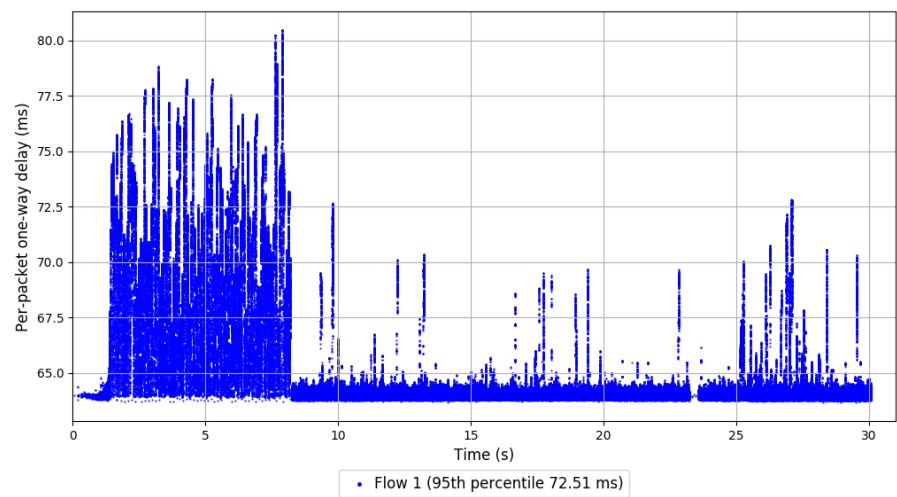
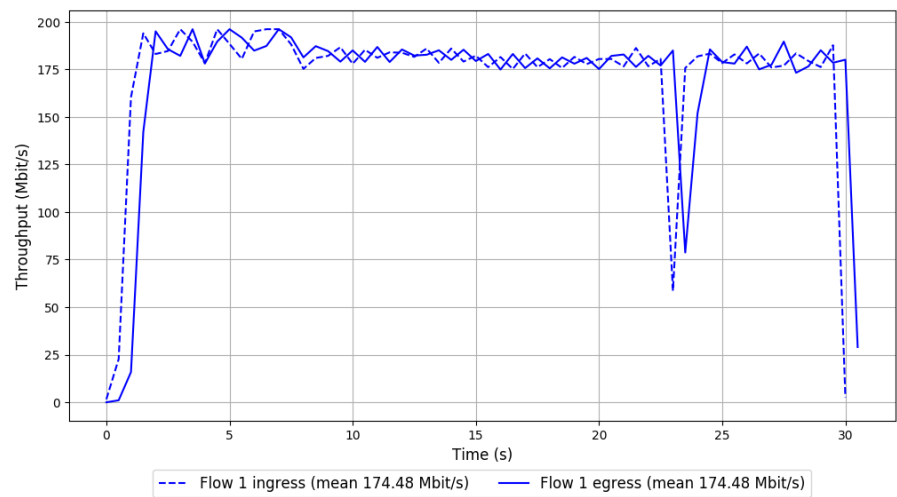
-- Flow 1:

Average throughput: 174.48 Mbit/s

95th percentile per-packet one-way delay: 72.508 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

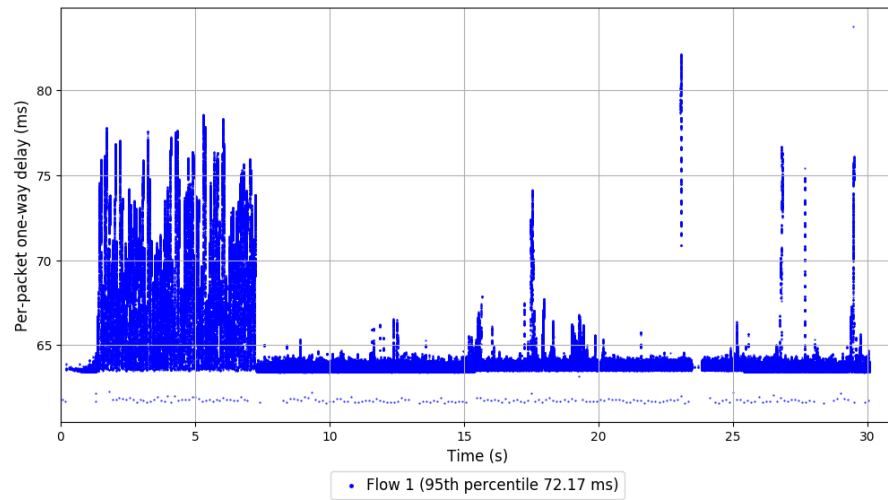
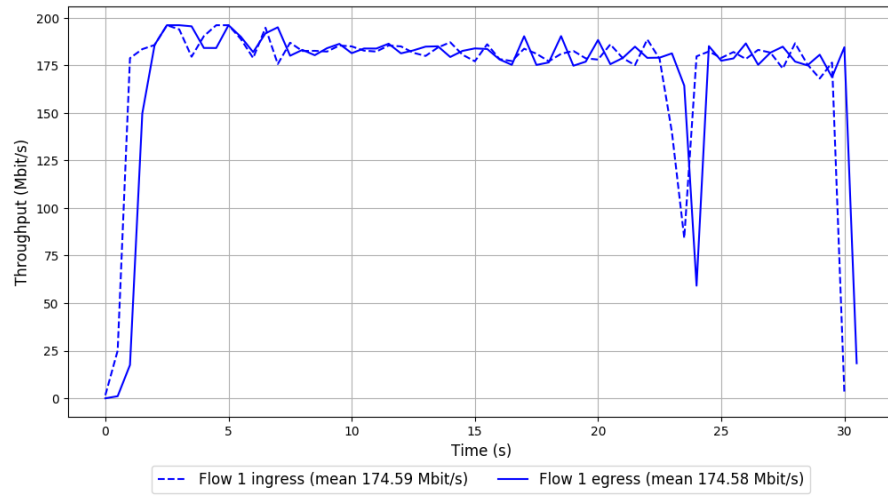


Run 3: Statistics of TCP BBR

Start at: 2018-06-06 02:09:55  
End at: 2018-06-06 02:10:25  
Local clock offset: -0.058 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2018-06-06 04:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 174.58 Mbit/s  
95th percentile per-packet one-way delay: 72.174 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 174.58 Mbit/s  
95th percentile per-packet one-way delay: 72.174 ms  
Loss rate: 0.00%

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

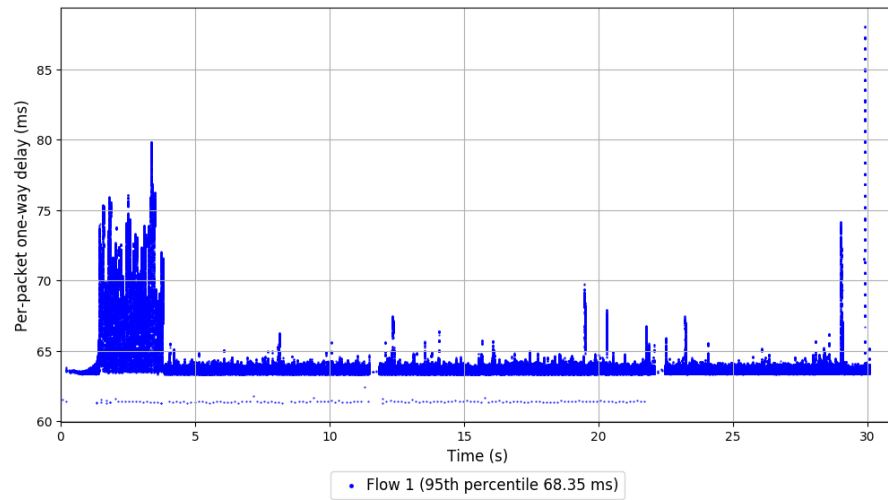
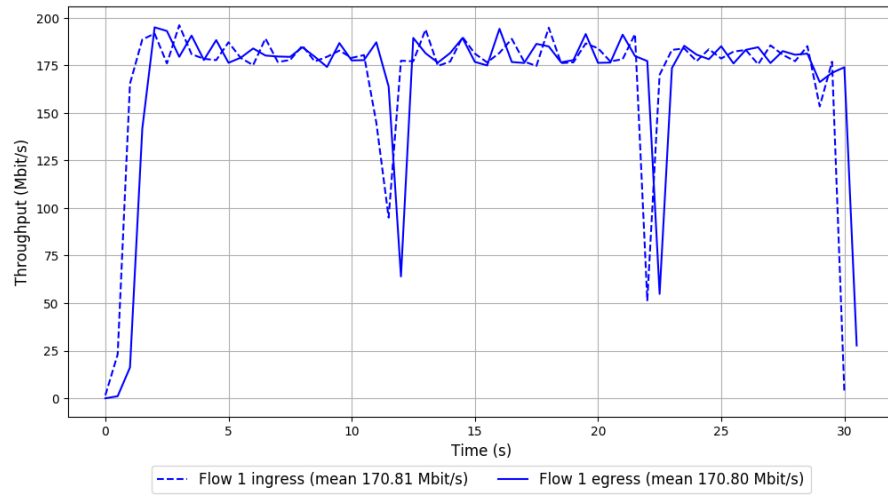


Run 4: Statistics of TCP BBR

Start at: 2018-06-06 02:30:19  
End at: 2018-06-06 02:30:49  
Local clock offset: -0.055 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2018-06-06 04:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 170.80 Mbit/s  
95th percentile per-packet one-way delay: 68.350 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 170.80 Mbit/s  
95th percentile per-packet one-way delay: 68.350 ms  
Loss rate: 0.00%

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



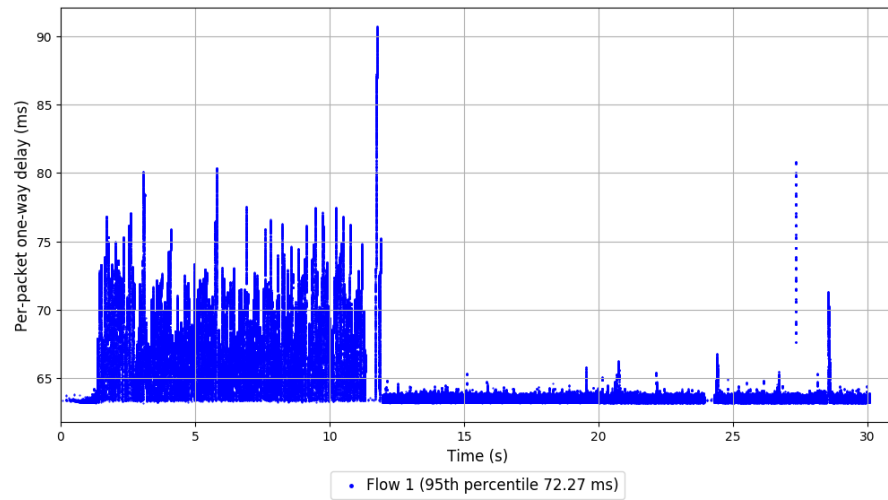
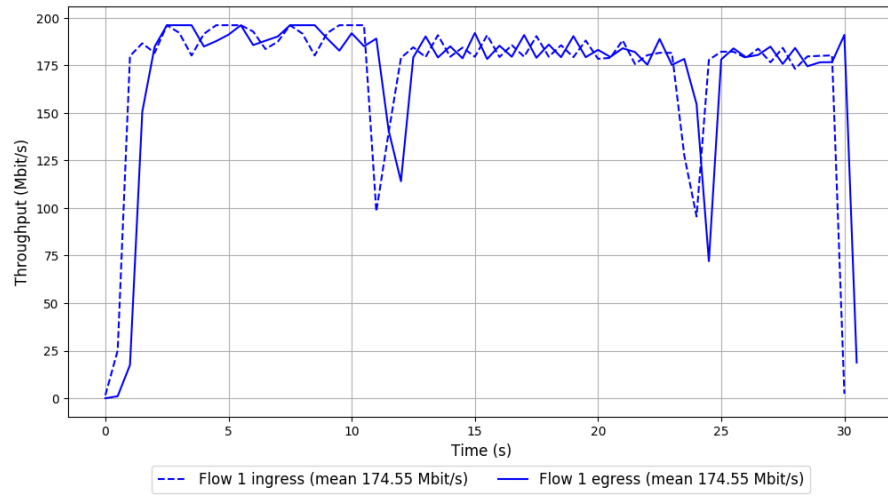
Run 5: Statistics of TCP BBR

Start at: 2018-06-06 02:50:11  
End at: 2018-06-06 02:50:41  
Local clock offset: -0.006 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-06-06 04:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 174.55 Mbit/s  
95th percentile per-packet one-way delay: 72.268 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 174.55 Mbit/s  
95th percentile per-packet one-way delay: 72.268 ms  
Loss rate: 0.01%



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



Run 6: Statistics of TCP BBR

Start at: 2018-06-06 03:10:02

End at: 2018-06-06 03:10:32

Local clock offset: -0.011 ms

Remote clock offset: 0.241 ms

# Below is generated by plot.py at 2018-06-06 04:48:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.78 Mbit/s

95th percentile per-packet one-way delay: 72.441 ms

Loss rate: 0.00%

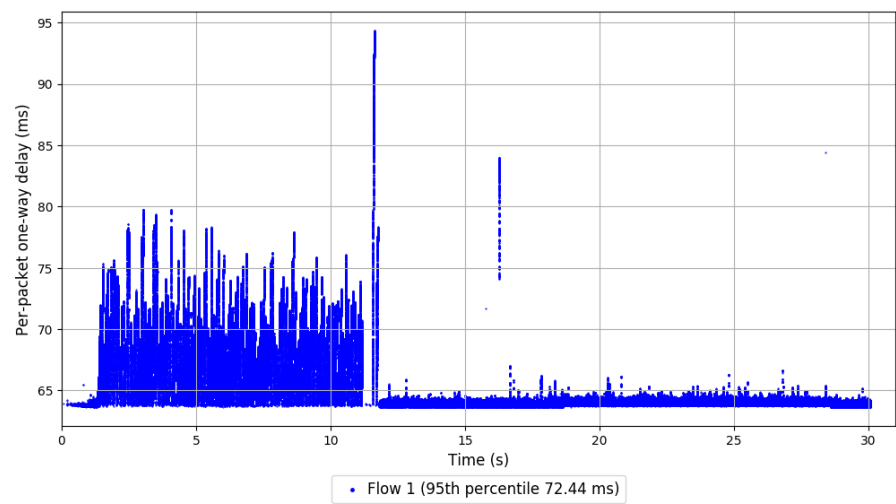
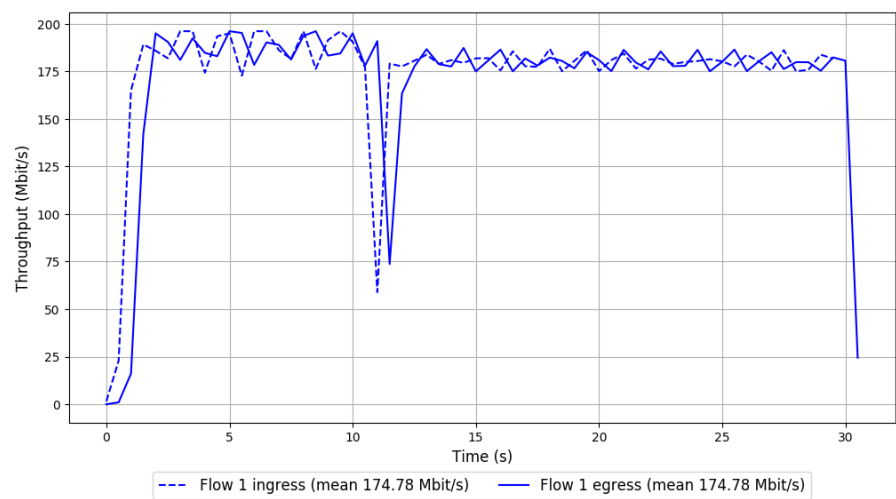
-- Flow 1:

Average throughput: 174.78 Mbit/s

95th percentile per-packet one-way delay: 72.441 ms

Loss rate: 0.00%

Run 6: Report of TCP BBR — Data Link

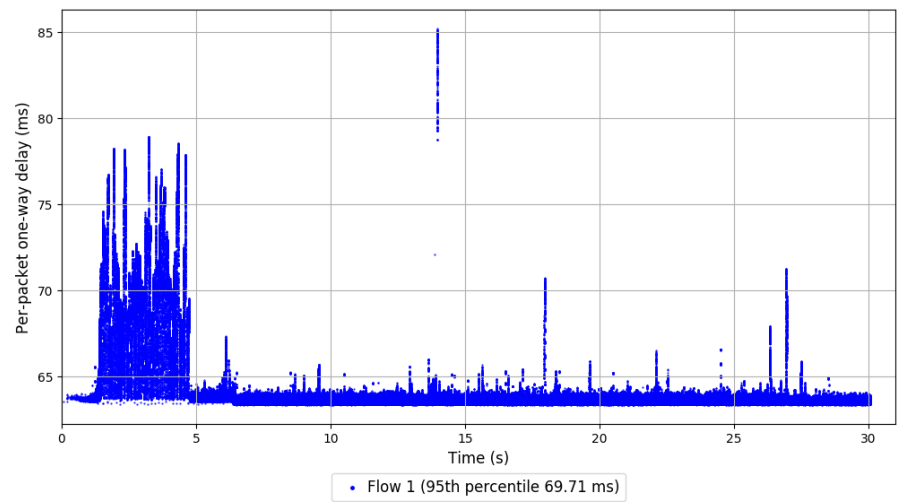
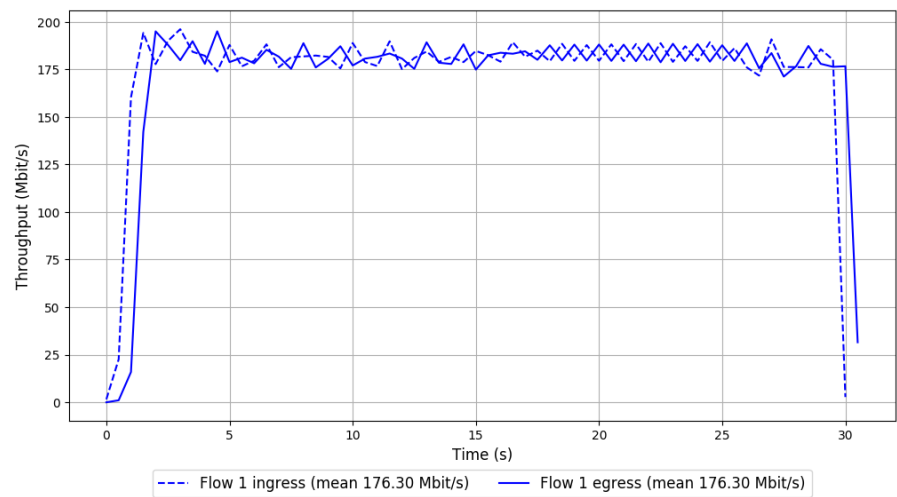


Run 7: Statistics of TCP BBR

Start at: 2018-06-06 03:30:04  
End at: 2018-06-06 03:30:34  
Local clock offset: -0.026 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-06 04:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 176.30 Mbit/s  
95th percentile per-packet one-way delay: 69.707 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 176.30 Mbit/s  
95th percentile per-packet one-way delay: 69.707 ms  
Loss rate: 0.00%

Run 7: Report of TCP BBR — Data Link

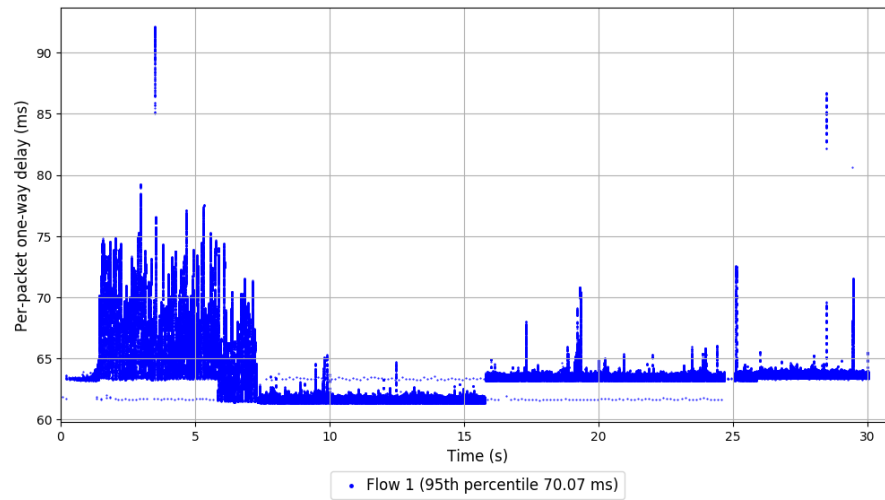
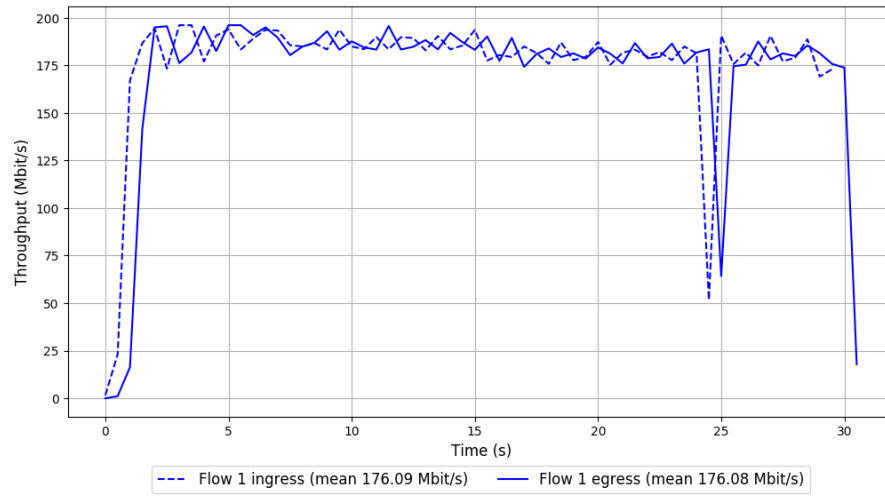


Run 8: Statistics of TCP BBR

Start at: 2018-06-06 03:50:15  
End at: 2018-06-06 03:50:45  
Local clock offset: -0.027 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-06-06 04:48:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 176.08 Mbit/s  
95th percentile per-packet one-way delay: 70.074 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 176.08 Mbit/s  
95th percentile per-packet one-way delay: 70.074 ms  
Loss rate: 0.00%

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



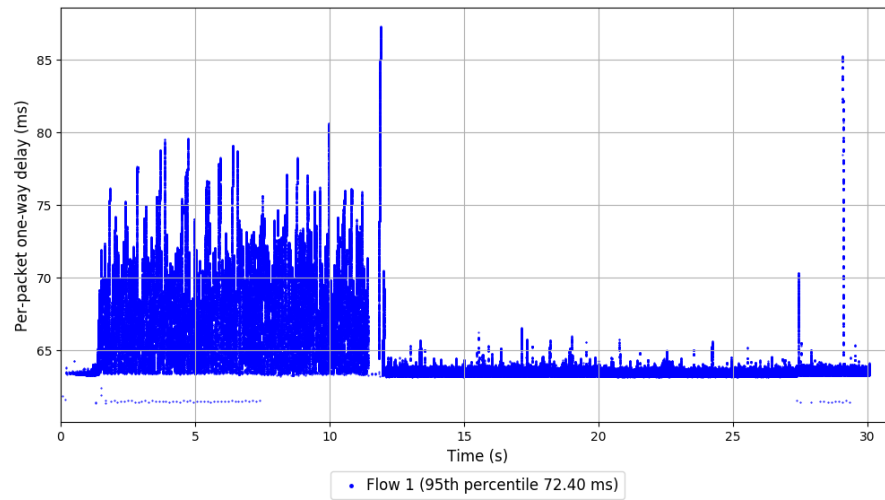
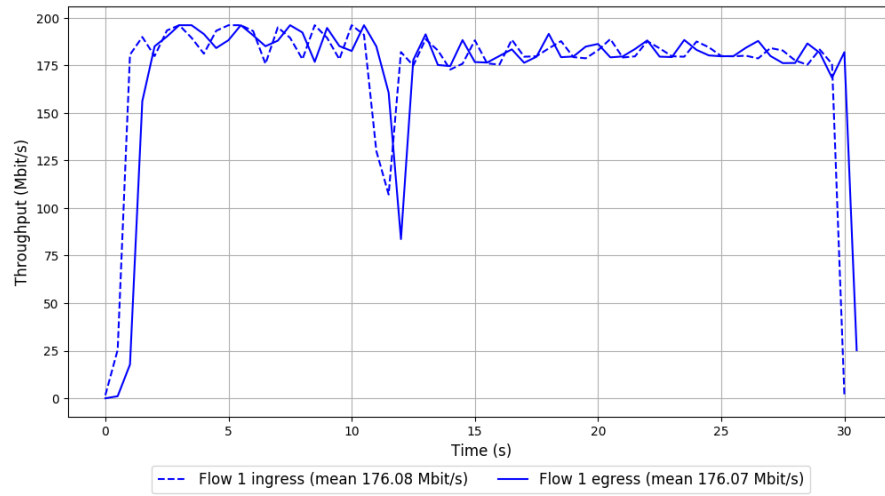
Run 9: Statistics of TCP BBR

Start at: 2018-06-06 04:10:23  
End at: 2018-06-06 04:10:53  
Local clock offset: -0.052 ms  
Remote clock offset: -0.307 ms

# Below is generated by plot.py at 2018-06-06 04:51:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 176.07 Mbit/s  
95th percentile per-packet one-way delay: 72.396 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 176.07 Mbit/s  
95th percentile per-packet one-way delay: 72.396 ms  
Loss rate: 0.00%



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



Run 10: Statistics of TCP BBR

Start at: 2018-06-06 04:30:32

End at: 2018-06-06 04:31:02

Local clock offset: -0.012 ms

Remote clock offset: 0.218 ms

# Below is generated by plot.py at 2018-06-06 04:51:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 74.143 ms

Loss rate: 0.00%

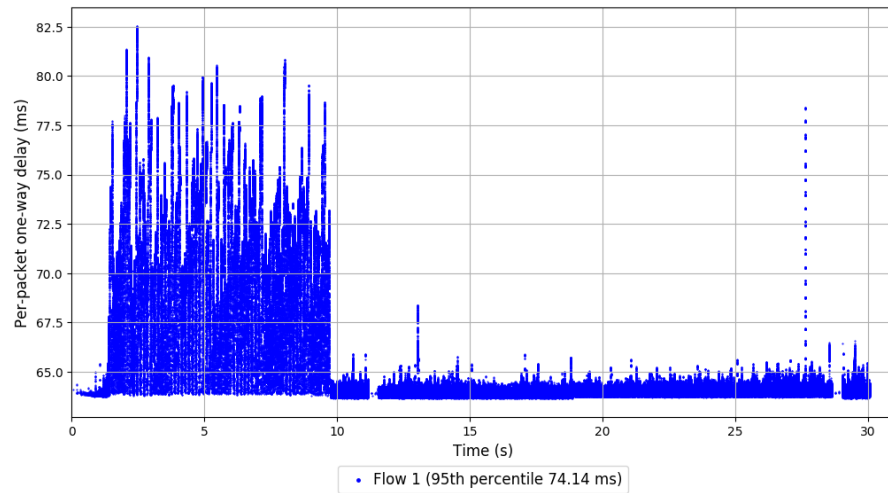
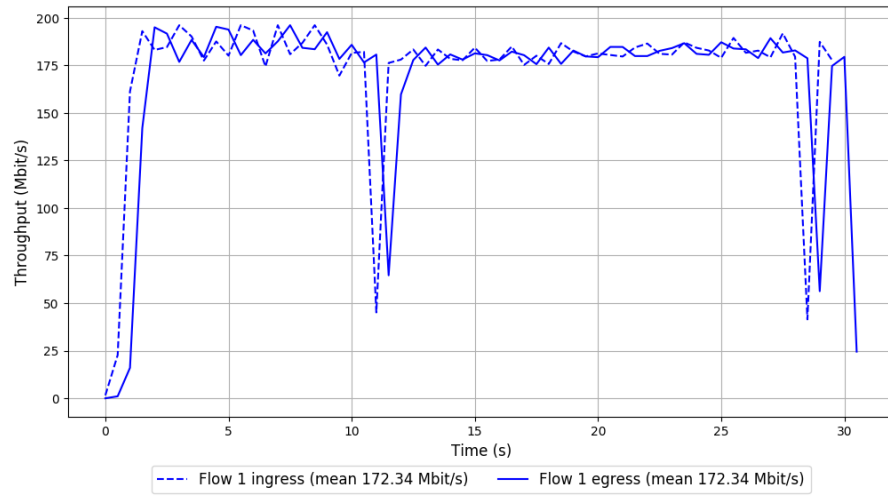
-- Flow 1:

Average throughput: 172.34 Mbit/s

95th percentile per-packet one-way delay: 74.143 ms

Loss rate: 0.00%

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

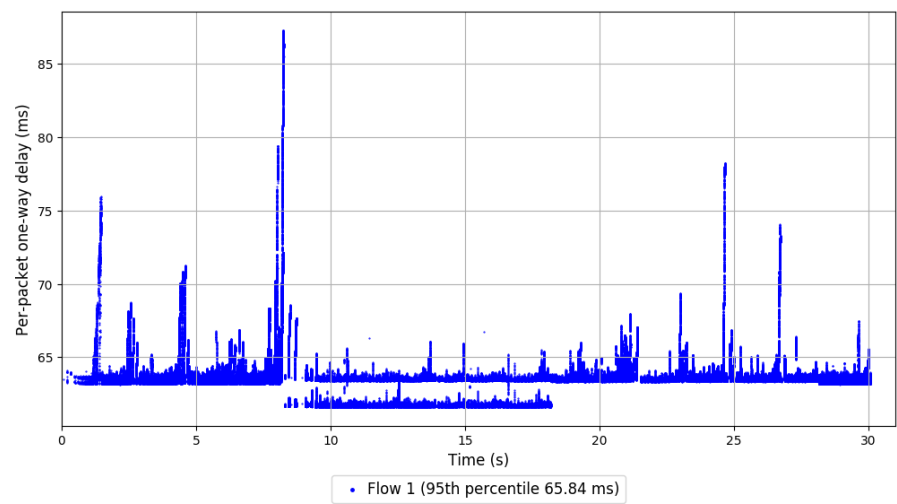
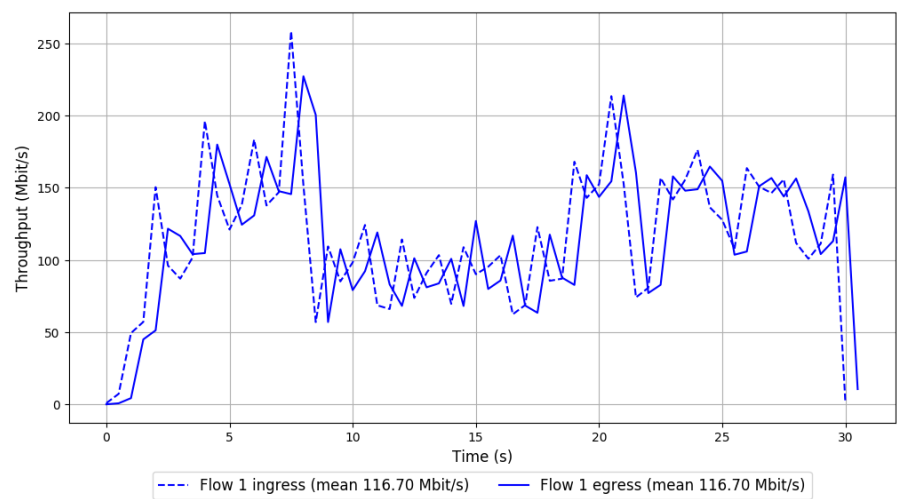


Run 1: Statistics of Copa

Start at: 2018-06-06 01:22:02  
End at: 2018-06-06 01:22:32  
Local clock offset: 0.068 ms  
Remote clock offset: -0.171 ms

# Below is generated by plot.py at 2018-06-06 04:52:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 116.70 Mbit/s  
95th percentile per-packet one-way delay: 65.842 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 116.70 Mbit/s  
95th percentile per-packet one-way delay: 65.842 ms  
Loss rate: 0.00%

Run 1: Report of Copa — Data Link

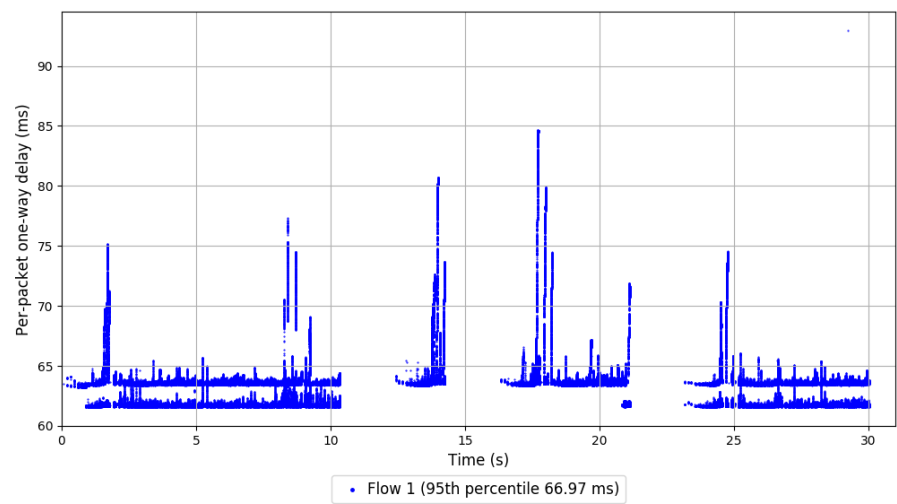
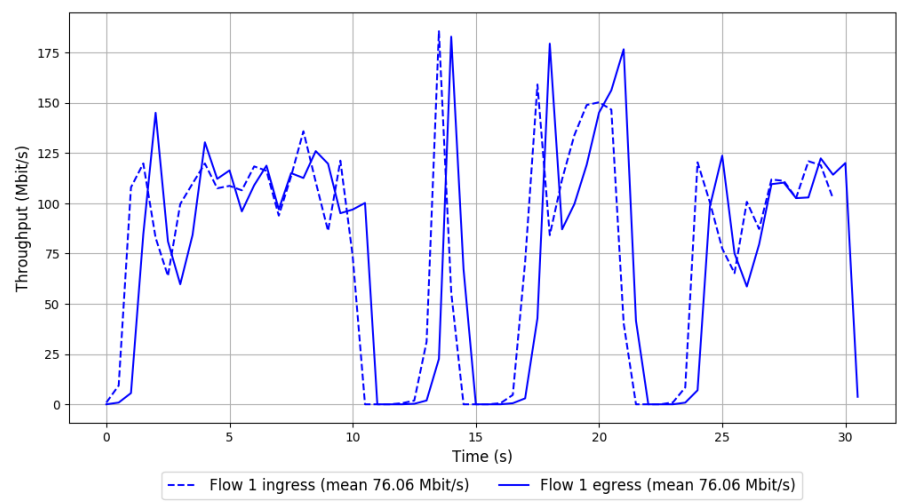


Run 2: Statistics of Copa

Start at: 2018-06-06 01:42:10  
End at: 2018-06-06 01:42:40  
Local clock offset: -0.064 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2018-06-06 04:52:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.06 Mbit/s  
95th percentile per-packet one-way delay: 66.969 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 76.06 Mbit/s  
95th percentile per-packet one-way delay: 66.969 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2018-06-06 02:02:20

End at: 2018-06-06 02:02:50

Local clock offset: -0.051 ms

Remote clock offset: 0.175 ms

# Below is generated by plot.py at 2018-06-06 04:52:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 69.876 ms

Loss rate: 0.00%

-- Flow 1:

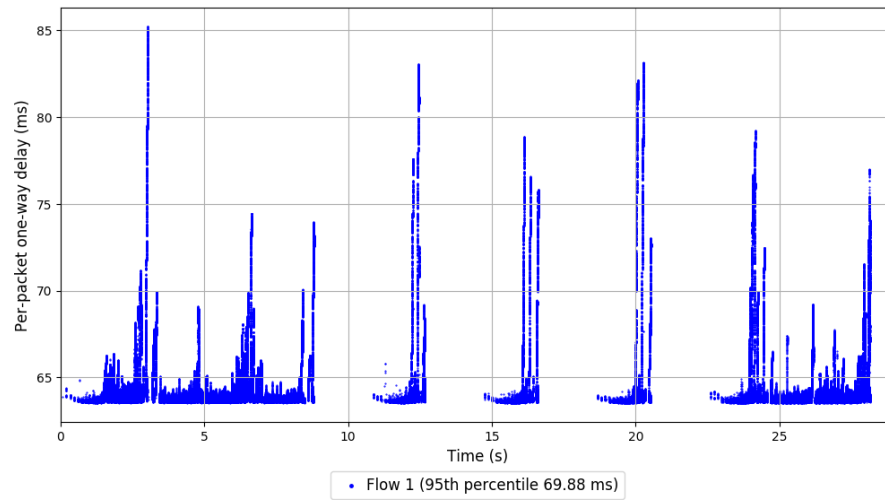
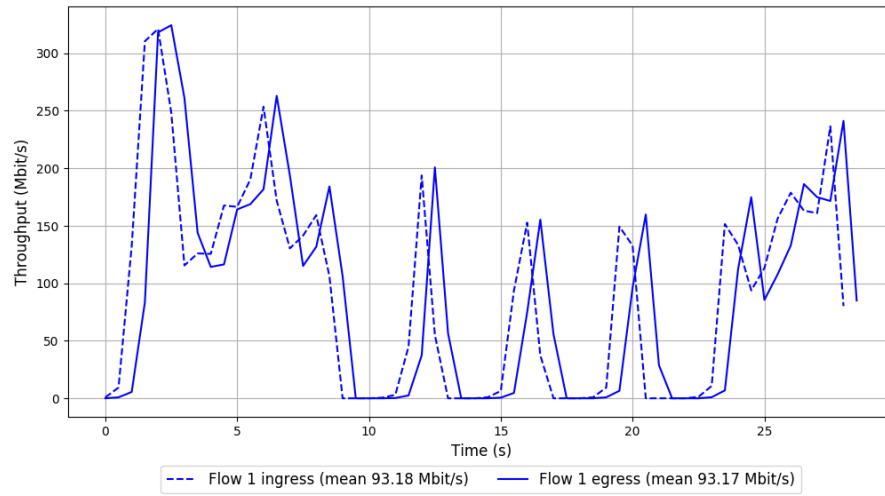
Average throughput: 93.17 Mbit/s

95th percentile per-packet one-way delay: 69.876 ms

Loss rate: 0.00%



### Run 3: Report of Copa — Data Link

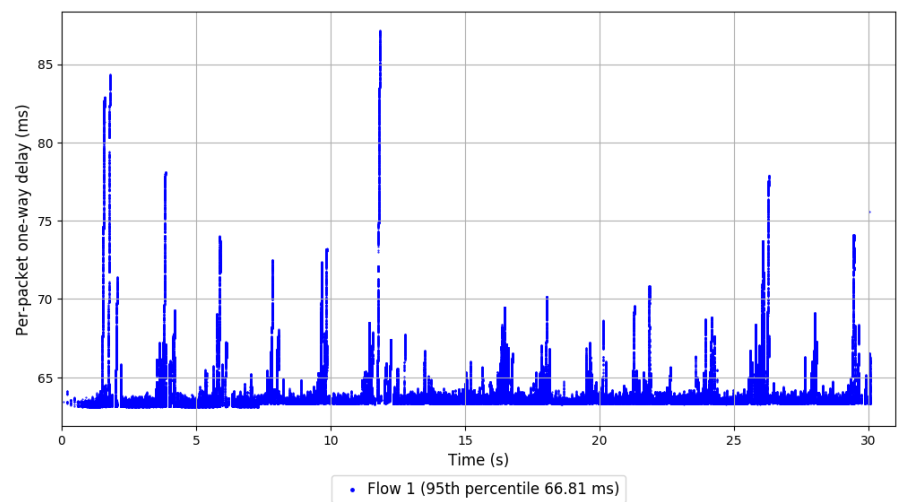
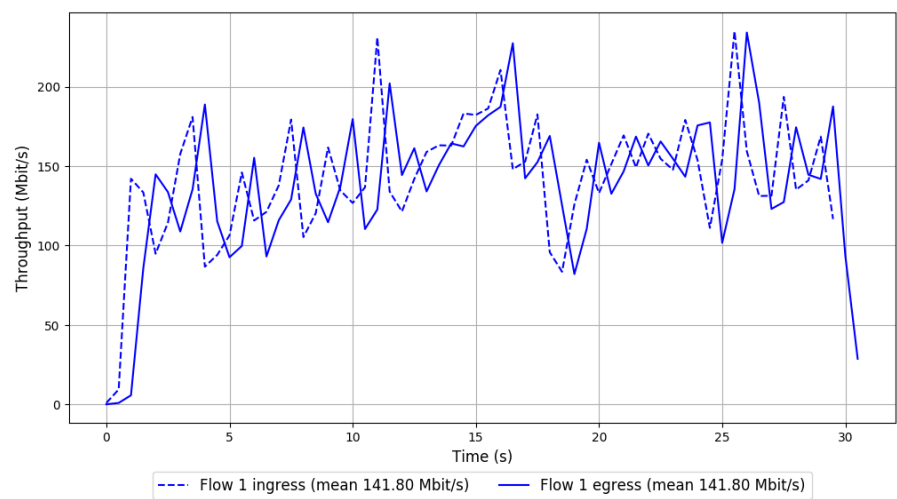


Run 4: Statistics of Copa

Start at: 2018-06-06 02:22:33  
End at: 2018-06-06 02:23:03  
Local clock offset: -0.042 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-06 04:53:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 141.80 Mbit/s  
95th percentile per-packet one-way delay: 66.813 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 141.80 Mbit/s  
95th percentile per-packet one-way delay: 66.813 ms  
Loss rate: 0.00%

Run 4: Report of Copa — Data Link

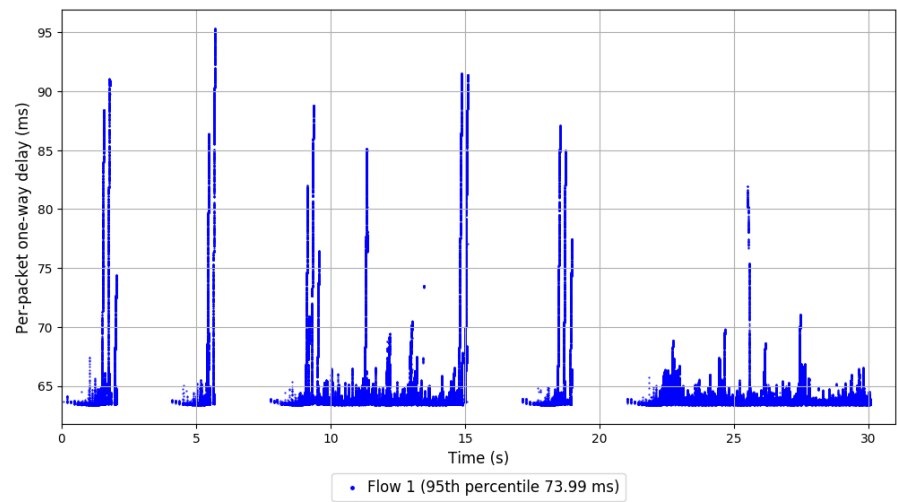
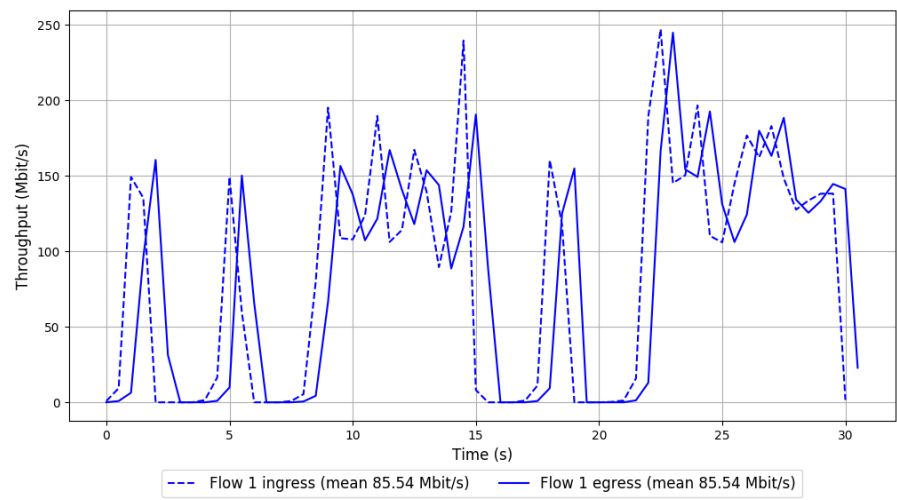


Run 5: Statistics of Copa

Start at: 2018-06-06 02:42:53  
End at: 2018-06-06 02:43:23  
Local clock offset: -0.048 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2018-06-06 04:53:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 85.54 Mbit/s  
95th percentile per-packet one-way delay: 73.994 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 85.54 Mbit/s  
95th percentile per-packet one-way delay: 73.994 ms  
Loss rate: 0.00%

Run 5: Report of Copa — Data Link

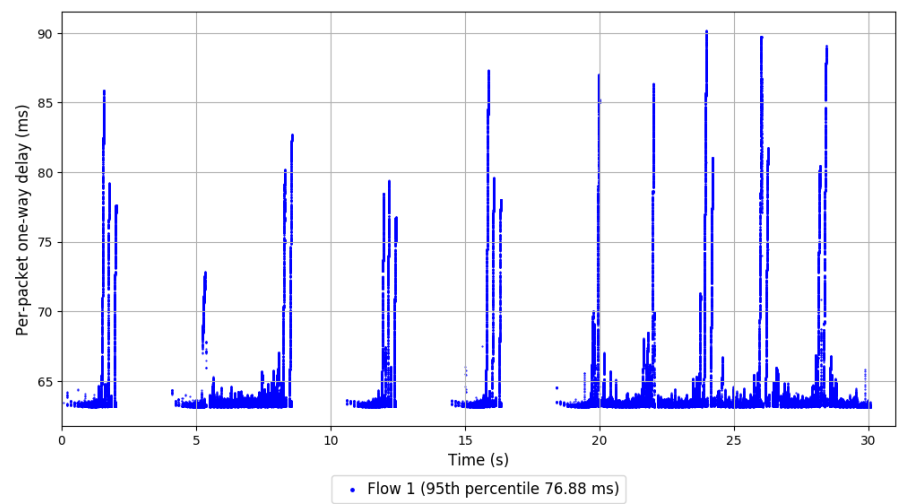
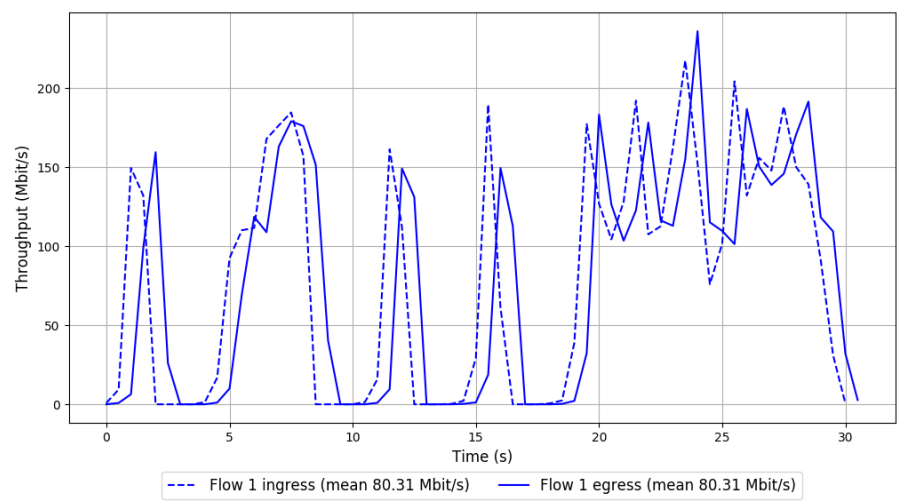


Run 6: Statistics of Copa

Start at: 2018-06-06 03:02:22  
End at: 2018-06-06 03:02:52  
Local clock offset: -0.004 ms  
Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2018-06-06 04:53:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 80.31 Mbit/s  
95th percentile per-packet one-way delay: 76.881 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 80.31 Mbit/s  
95th percentile per-packet one-way delay: 76.881 ms  
Loss rate: 0.00%

Run 6: Report of Copa — Data Link



Run 7: Statistics of Copa

Start at: 2018-06-06 03:22:36

End at: 2018-06-06 03:23:06

Local clock offset: -0.01 ms

Remote clock offset: 0.15 ms

# Below is generated by plot.py at 2018-06-06 04:53:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 63.928 ms

Loss rate: 0.00%

-- Flow 1:

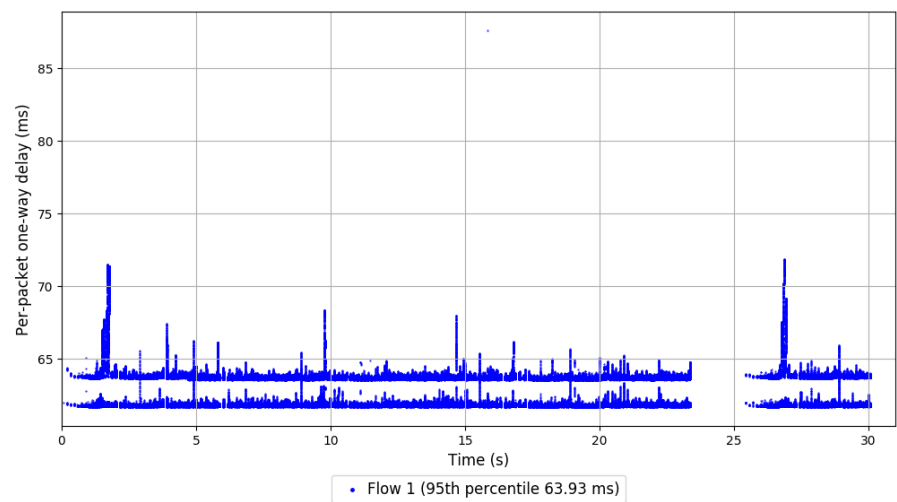
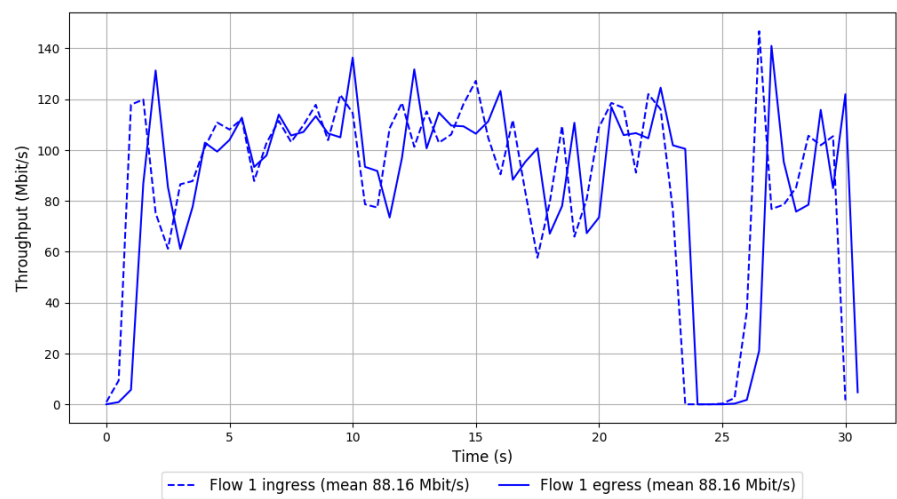
Average throughput: 88.16 Mbit/s

95th percentile per-packet one-way delay: 63.928 ms

Loss rate: 0.00%



Run 7: Report of Copa — Data Link

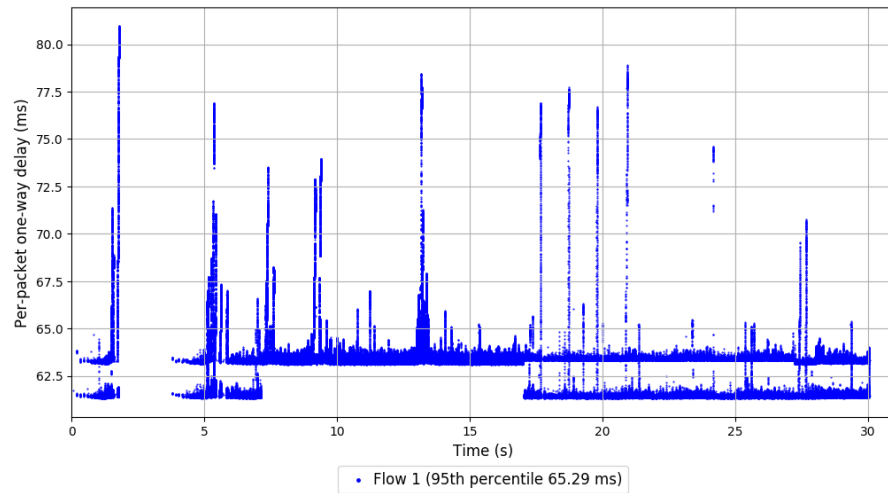
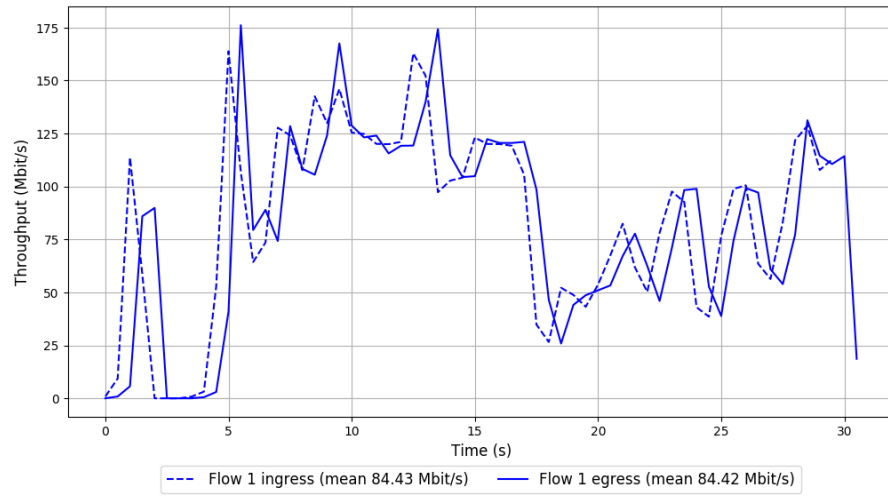


Run 8: Statistics of Copa

Start at: 2018-06-06 03:42:44  
End at: 2018-06-06 03:43:14  
Local clock offset: -0.038 ms  
Remote clock offset: -0.225 ms

# Below is generated by plot.py at 2018-06-06 04:53:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 84.42 Mbit/s  
95th percentile per-packet one-way delay: 65.288 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 84.42 Mbit/s  
95th percentile per-packet one-way delay: 65.288 ms  
Loss rate: 0.00%

## Run 8: Report of Copa — Data Link

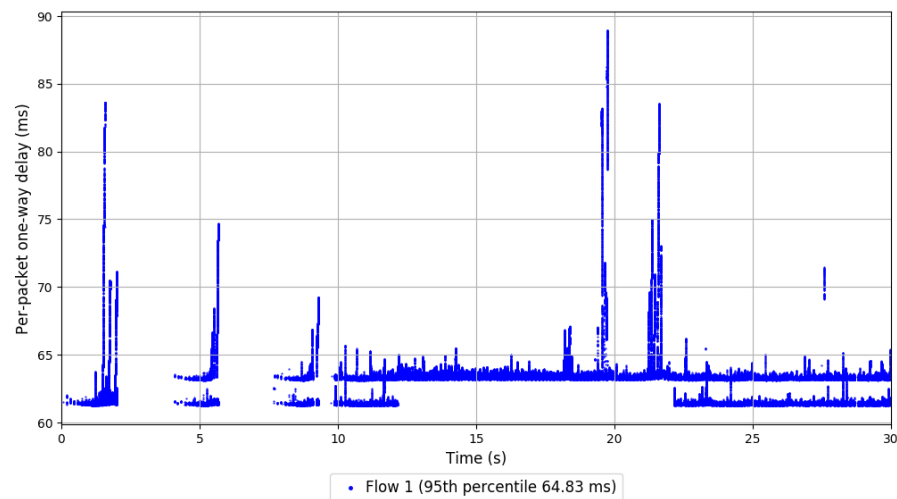
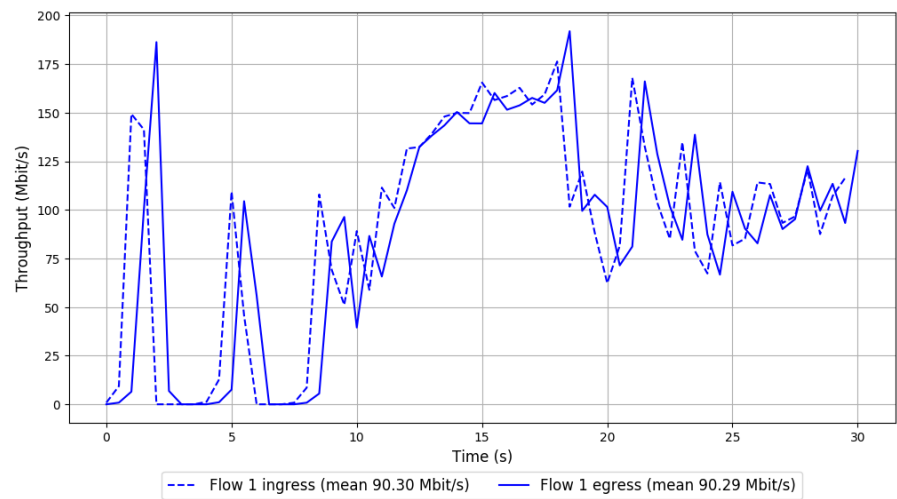


Run 9: Statistics of Copa

Start at: 2018-06-06 04:02:59  
End at: 2018-06-06 04:03:29  
Local clock offset: -0.033 ms  
Remote clock offset: -0.313 ms

# Below is generated by plot.py at 2018-06-06 04:54:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 90.29 Mbit/s  
95th percentile per-packet one-way delay: 64.826 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 90.29 Mbit/s  
95th percentile per-packet one-way delay: 64.826 ms  
Loss rate: 0.00%

Run 9: Report of Copa — Data Link

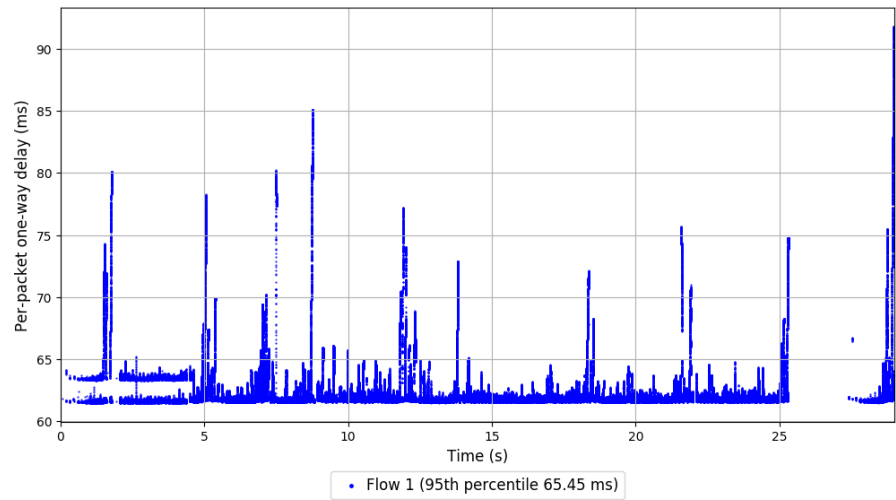
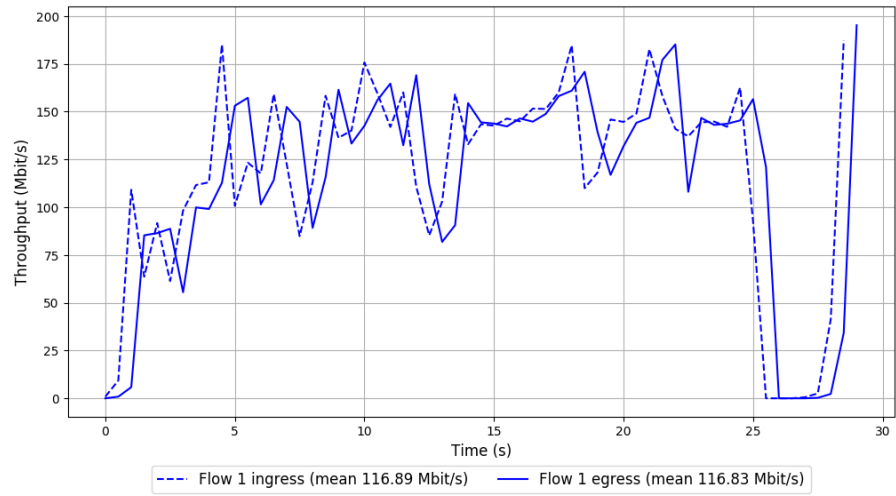


Run 10: Statistics of Copa

Start at: 2018-06-06 04:22:56  
End at: 2018-06-06 04:23:26  
Local clock offset: -0.057 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2018-06-06 04:54:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 116.83 Mbit/s  
95th percentile per-packet one-way delay: 65.448 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 116.83 Mbit/s  
95th percentile per-packet one-way delay: 65.448 ms  
Loss rate: 0.00%

# Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-06-06 01:28:24

End at: 2018-06-06 01:28:54

Local clock offset: 0.016 ms

Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2018-06-06 04:54:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.82 Mbit/s

95th percentile per-packet one-way delay: 77.680 ms

Loss rate: 0.02%

-- Flow 1:

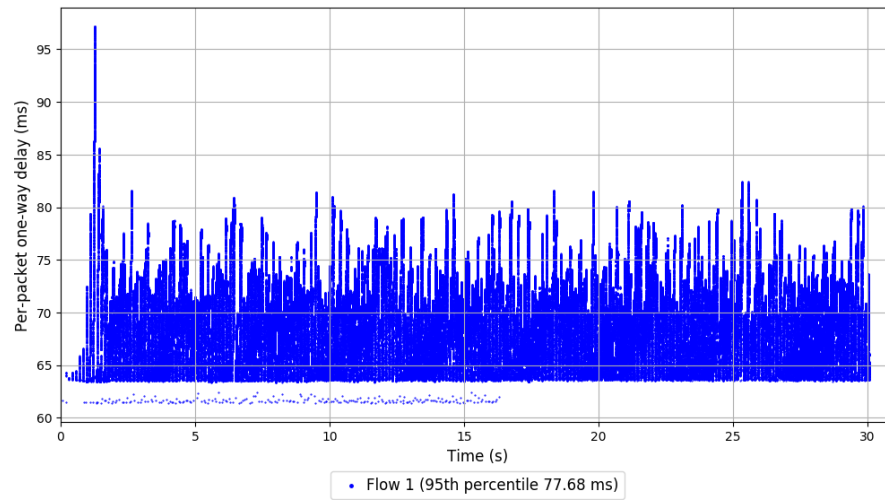
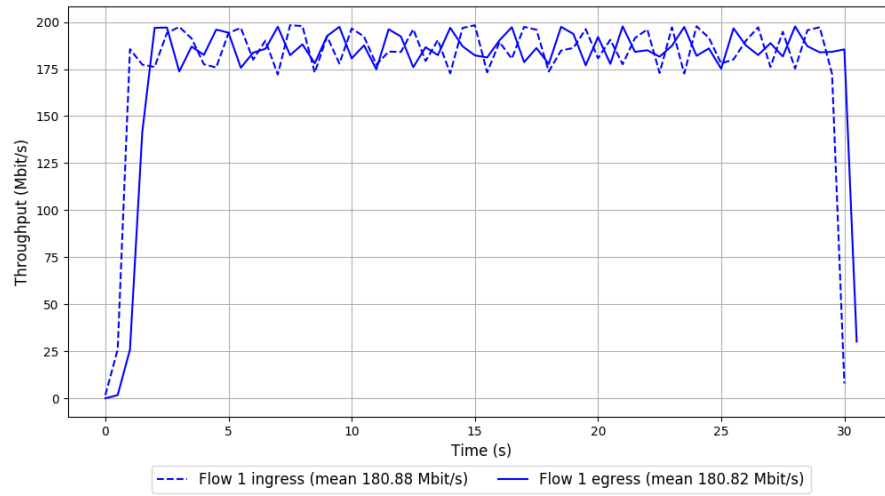
Average throughput: 180.82 Mbit/s

95th percentile per-packet one-way delay: 77.680 ms

Loss rate: 0.02%



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

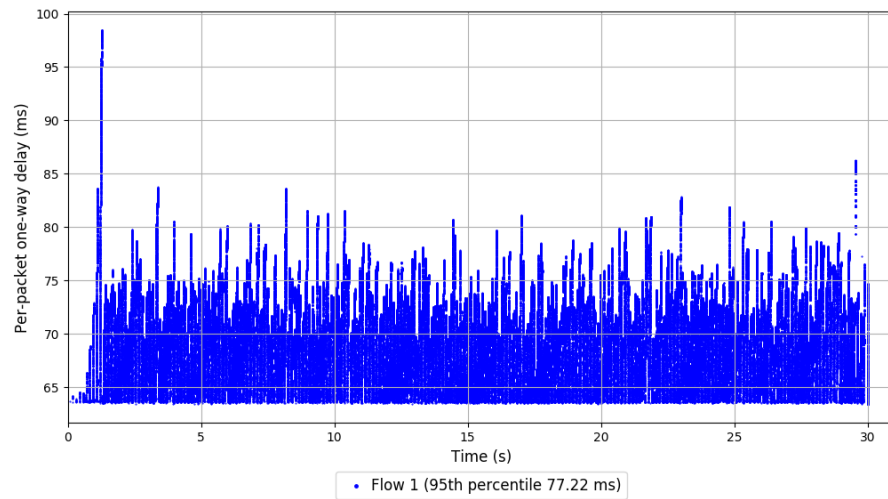
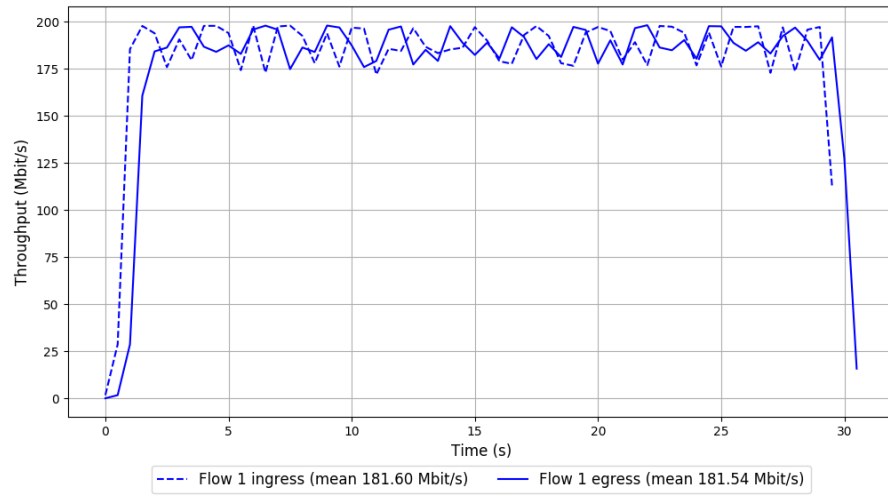


Run 2: Statistics of TCP Cubic

Start at: 2018-06-06 01:48:30  
End at: 2018-06-06 01:49:00  
Local clock offset: -0.078 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-06 04:54:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 181.54 Mbit/s  
95th percentile per-packet one-way delay: 77.215 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 181.54 Mbit/s  
95th percentile per-packet one-way delay: 77.215 ms  
Loss rate: 0.00%

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

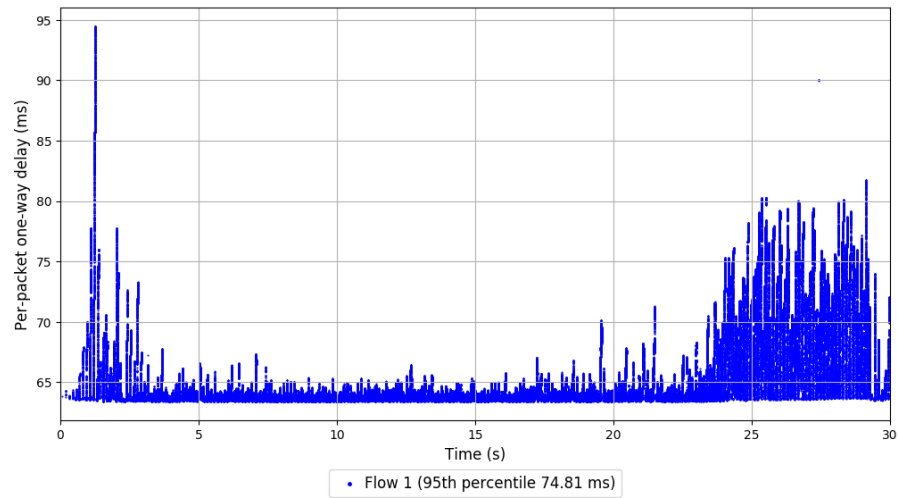
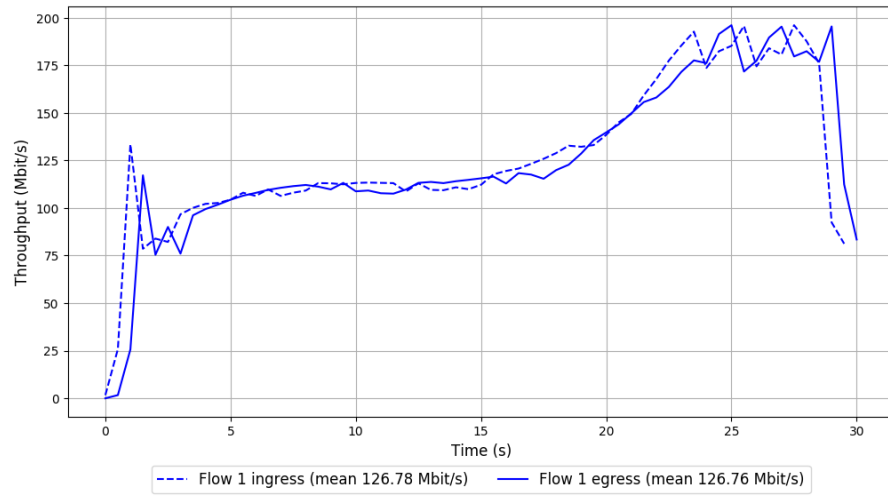


Run 3: Statistics of TCP Cubic

Start at: 2018-06-06 02:08:43  
End at: 2018-06-06 02:09:13  
Local clock offset: -0.064 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2018-06-06 04:54:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 126.76 Mbit/s  
95th percentile per-packet one-way delay: 74.808 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 126.76 Mbit/s  
95th percentile per-packet one-way delay: 74.808 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Cubic

Start at: 2018-06-06 02:29:04

End at: 2018-06-06 02:29:34

Local clock offset: -0.068 ms

Remote clock offset: 0.191 ms

# Below is generated by plot.py at 2018-06-06 04:56:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.31 Mbit/s

95th percentile per-packet one-way delay: 76.966 ms

Loss rate: 0.08%

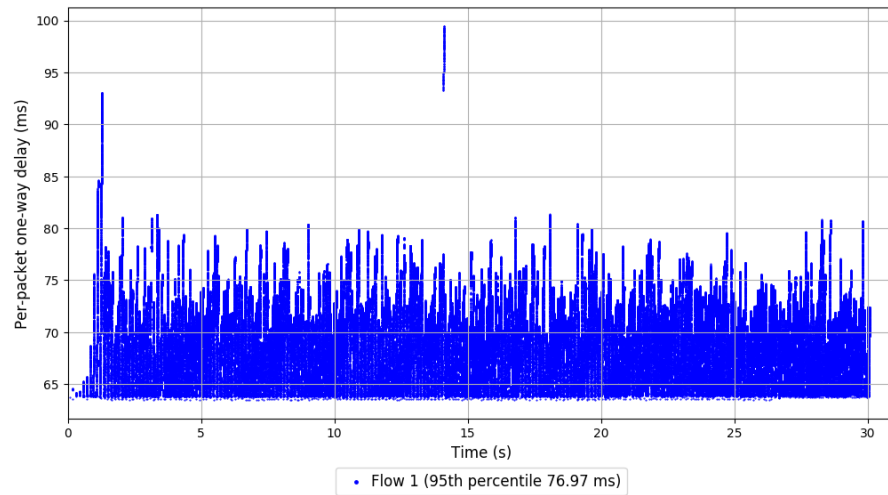
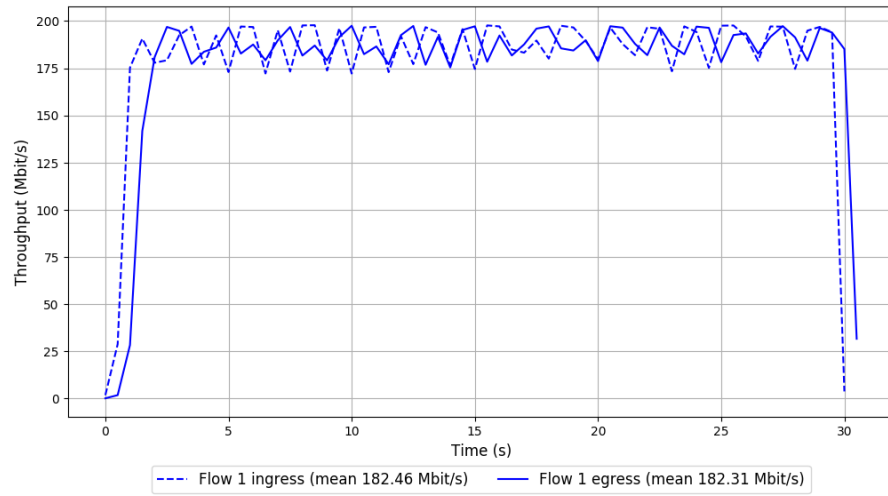
-- Flow 1:

Average throughput: 182.31 Mbit/s

95th percentile per-packet one-way delay: 76.966 ms

Loss rate: 0.08%

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



Run 5: Statistics of TCP Cubic

Start at: 2018-06-06 02:48:59

End at: 2018-06-06 02:49:29

Local clock offset: -0.035 ms

Remote clock offset: -0.39 ms

# Below is generated by plot.py at 2018-06-06 04:56:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 127.98 Mbit/s

95th percentile per-packet one-way delay: 73.899 ms

Loss rate: 0.00%

-- Flow 1:

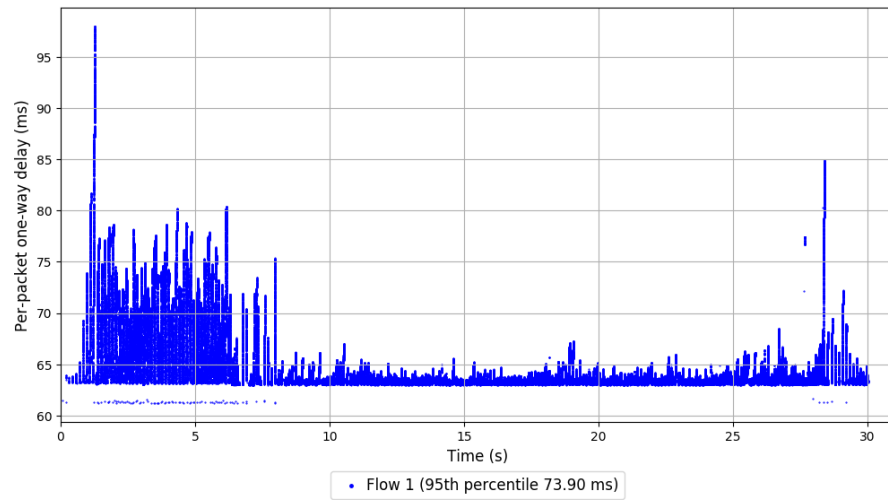
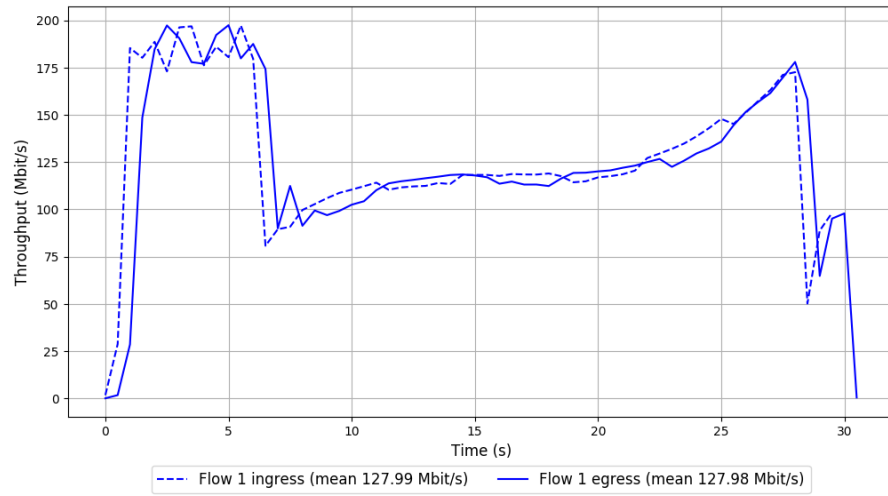
Average throughput: 127.98 Mbit/s

95th percentile per-packet one-way delay: 73.899 ms

Loss rate: 0.00%



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



Run 6: Statistics of TCP Cubic

Start at: 2018-06-06 03:08:49

End at: 2018-06-06 03:09:19

Local clock offset: -0.023 ms

Remote clock offset: 0.235 ms

# Below is generated by plot.py at 2018-06-06 04:56:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 154.72 Mbit/s

95th percentile per-packet one-way delay: 76.079 ms

Loss rate: 0.00%

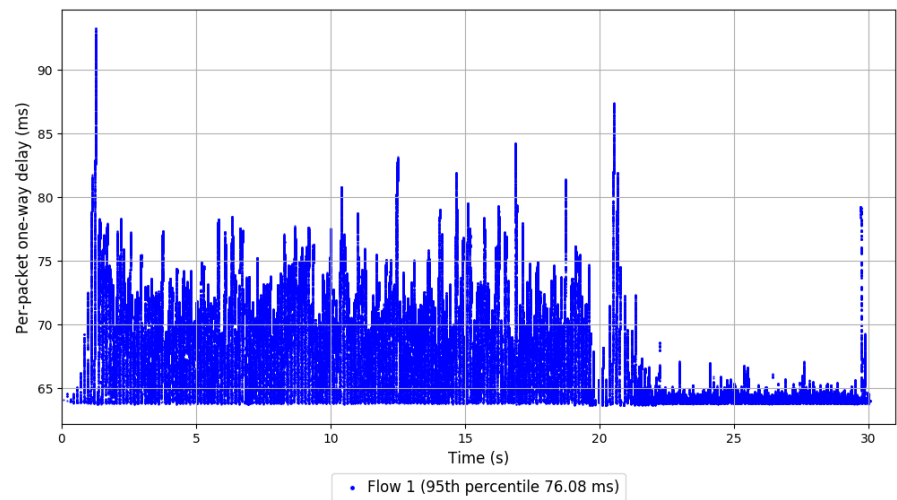
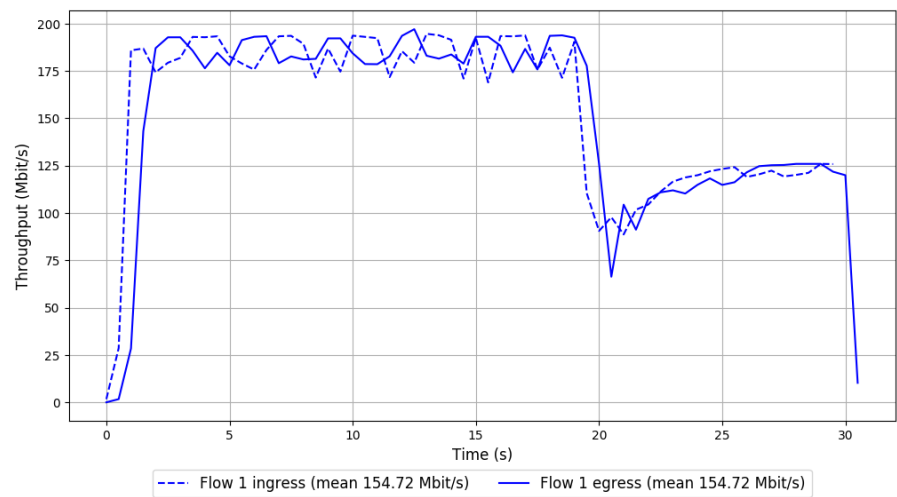
-- Flow 1:

Average throughput: 154.72 Mbit/s

95th percentile per-packet one-way delay: 76.079 ms

Loss rate: 0.00%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

Start at: 2018-06-06 03:28:50

End at: 2018-06-06 03:29:20

Local clock offset: -0.033 ms

Remote clock offset: 0.214 ms

# Below is generated by plot.py at 2018-06-06 04:57:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.32 Mbit/s

95th percentile per-packet one-way delay: 77.294 ms

Loss rate: 0.00%

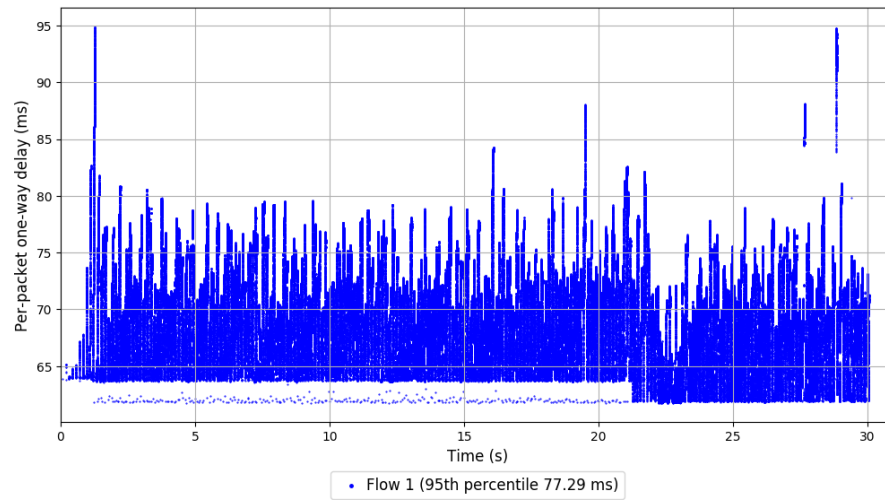
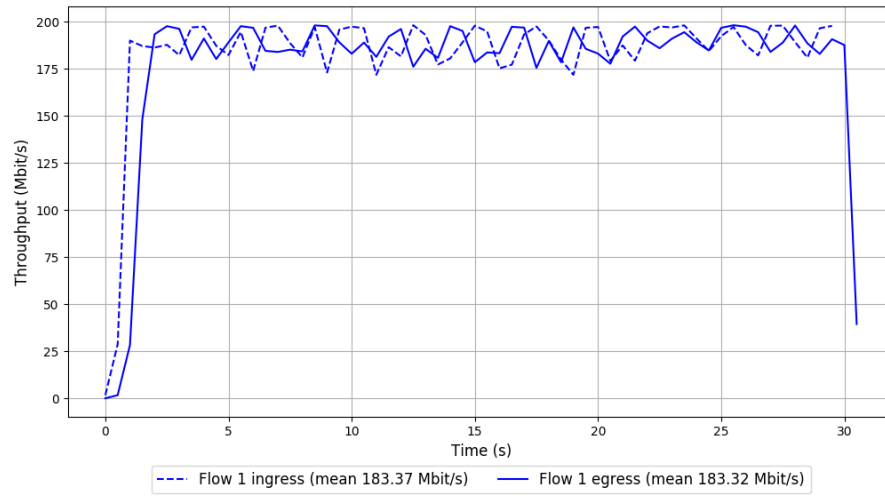
-- Flow 1:

Average throughput: 183.32 Mbit/s

95th percentile per-packet one-way delay: 77.294 ms

Loss rate: 0.00%

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



Run 8: Statistics of TCP Cubic

Start at: 2018-06-06 03:49:04

End at: 2018-06-06 03:49:34

Local clock offset: -0.027 ms

Remote clock offset: 0.08 ms

# Below is generated by plot.py at 2018-06-06 04:57:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 100.20 Mbit/s

95th percentile per-packet one-way delay: 65.989 ms

Loss rate: 0.00%

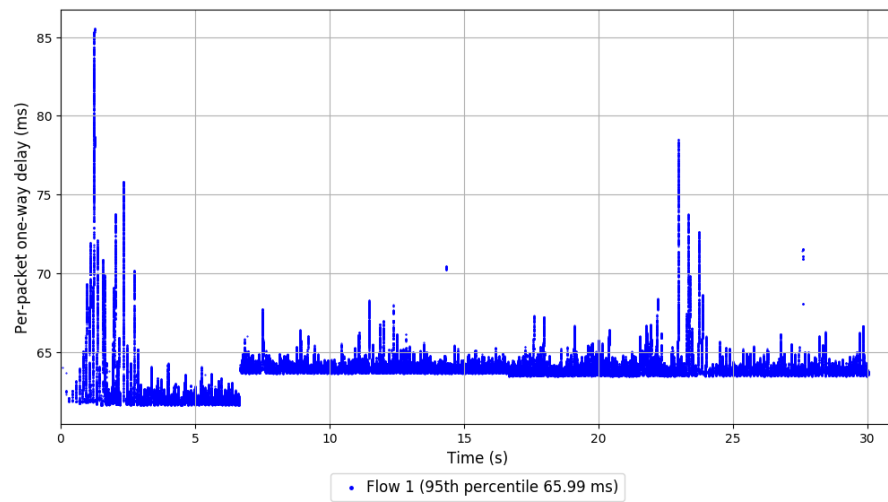
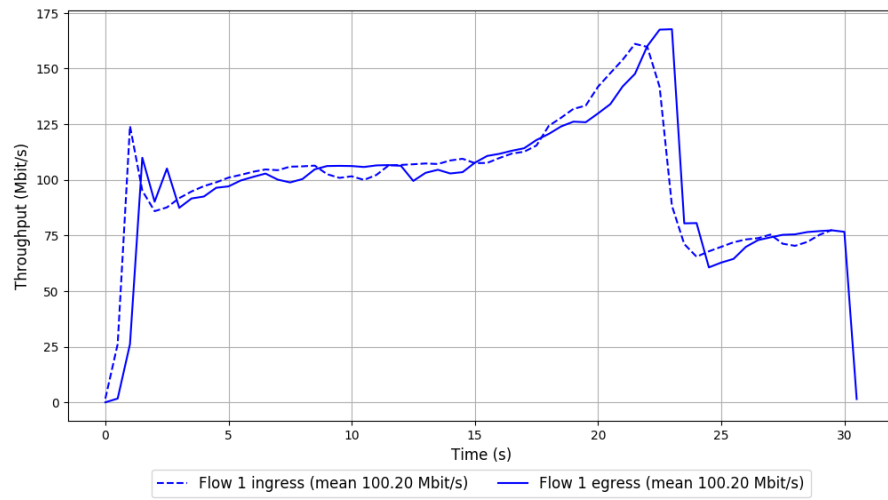
-- Flow 1:

Average throughput: 100.20 Mbit/s

95th percentile per-packet one-way delay: 65.989 ms

Loss rate: 0.00%

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



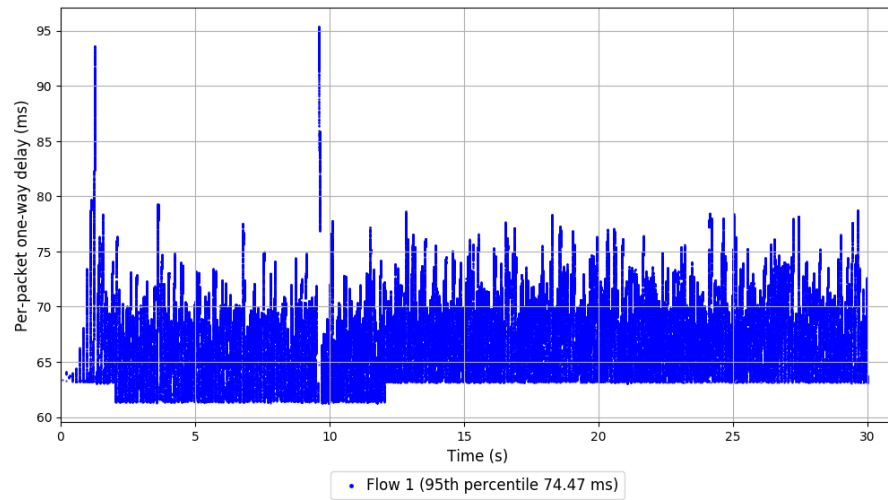
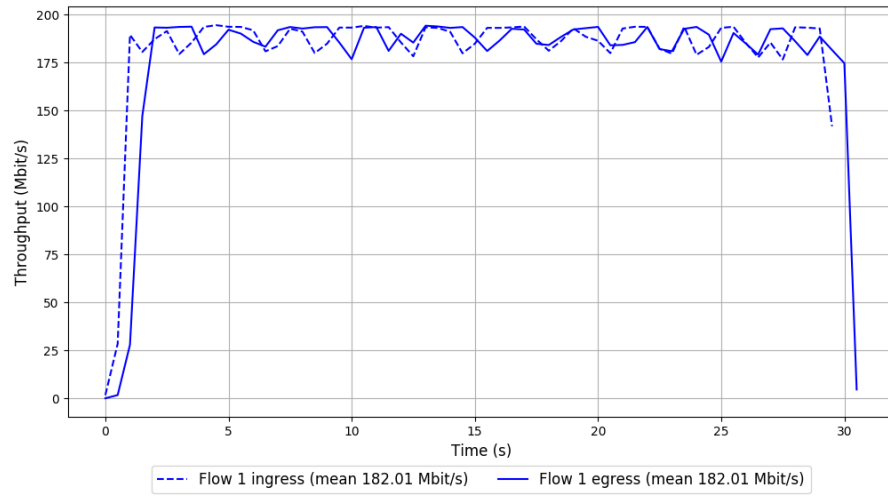
Run 9: Statistics of TCP Cubic

Start at: 2018-06-06 04:09:09  
End at: 2018-06-06 04:09:39  
Local clock offset: -0.061 ms  
Remote clock offset: -0.466 ms

# Below is generated by plot.py at 2018-06-06 04:57:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 182.01 Mbit/s  
95th percentile per-packet one-way delay: 74.473 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 182.01 Mbit/s  
95th percentile per-packet one-way delay: 74.473 ms  
Loss rate: 0.00%



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



Run 10: Statistics of TCP Cubic

Start at: 2018-06-06 04:29:17

End at: 2018-06-06 04:29:47

Local clock offset: -0.054 ms

Remote clock offset: -0.231 ms

# Below is generated by plot.py at 2018-06-06 04:57:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 173.60 Mbit/s

95th percentile per-packet one-way delay: 78.058 ms

Loss rate: 0.00%

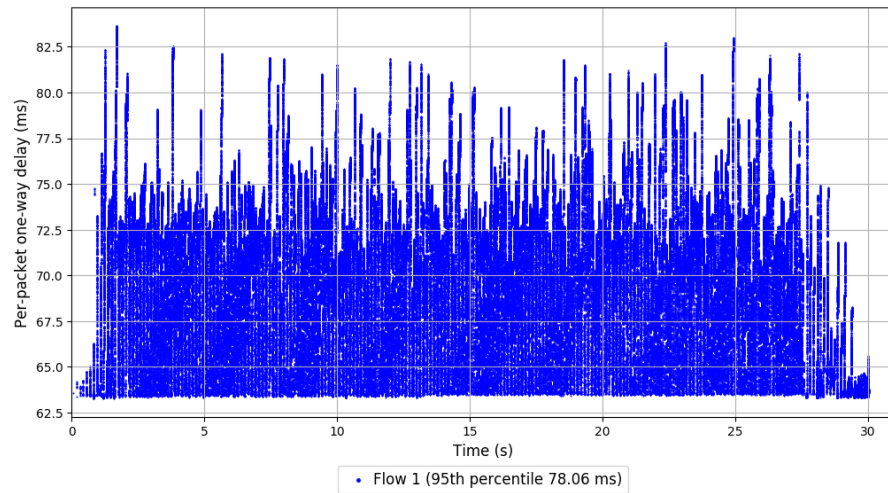
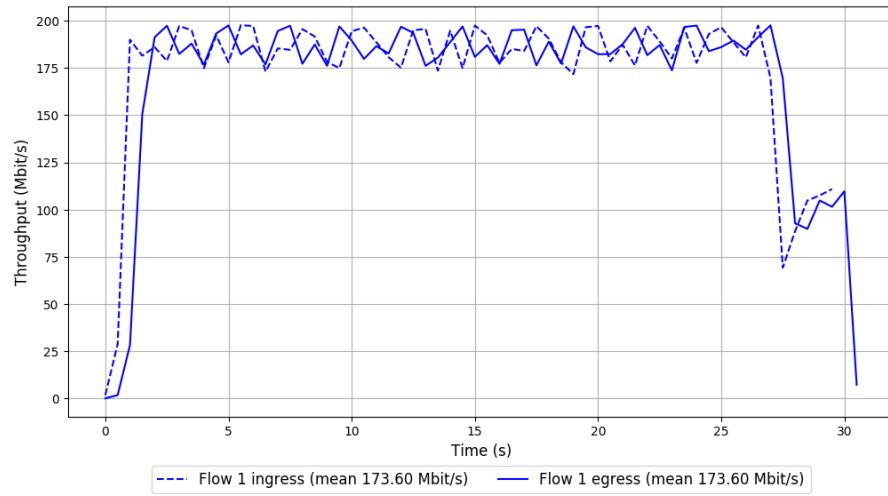
-- Flow 1:

Average throughput: 173.60 Mbit/s

95th percentile per-packet one-way delay: 78.058 ms

Loss rate: 0.00%

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

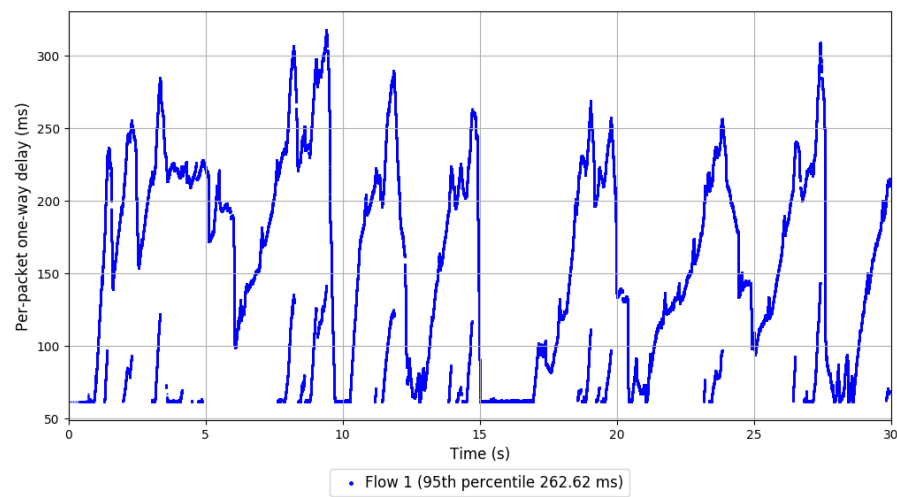
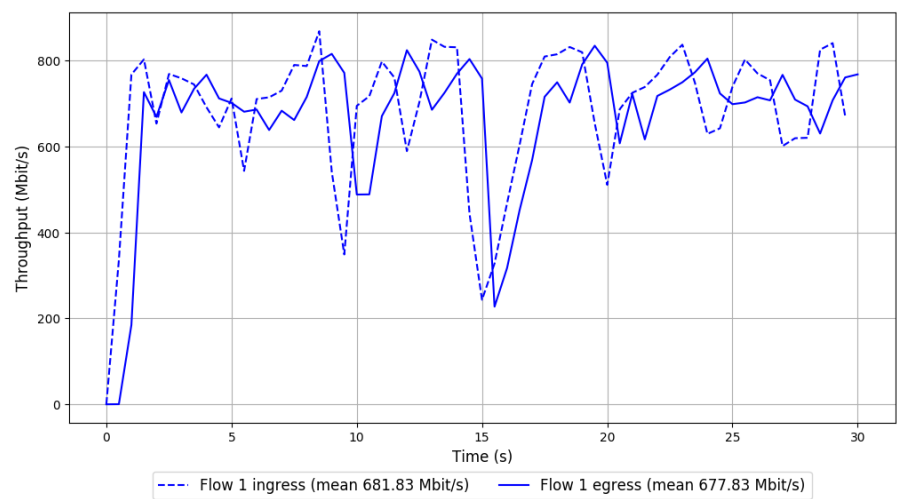


Run 1: Statistics of FillP

Start at: 2018-06-06 01:20:29  
End at: 2018-06-06 01:20:59  
Local clock offset: 0.088 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-06 05:08:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 677.83 Mbit/s  
95th percentile per-packet one-way delay: 262.624 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 677.83 Mbit/s  
95th percentile per-packet one-way delay: 262.624 ms  
Loss rate: 0.58%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2018-06-06 01:40:36

End at: 2018-06-06 01:41:06

Local clock offset: -0.063 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-06-06 05:09:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 697.26 Mbit/s

95th percentile per-packet one-way delay: 252.099 ms

Loss rate: 0.74%

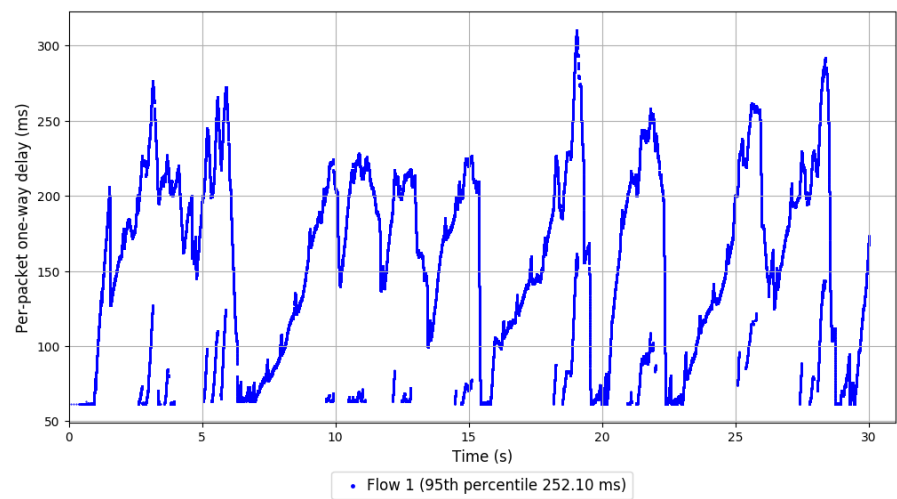
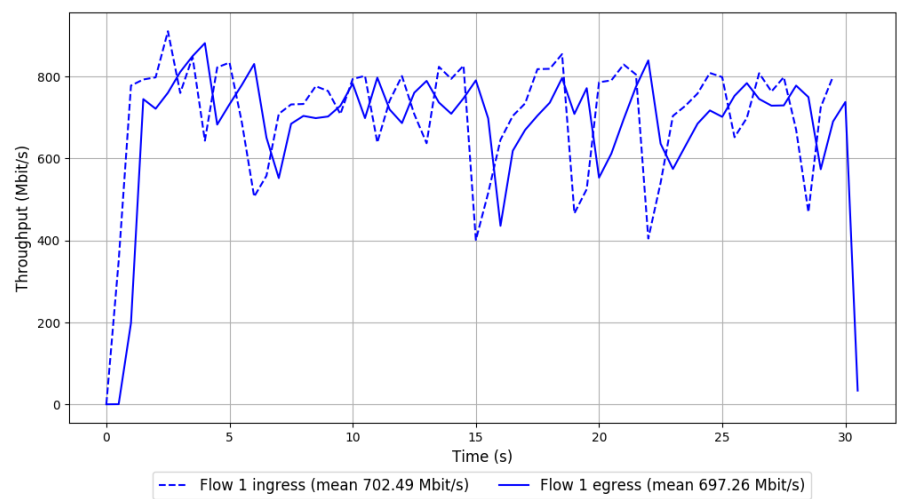
-- Flow 1:

Average throughput: 697.26 Mbit/s

95th percentile per-packet one-way delay: 252.099 ms

Loss rate: 0.74%

Run 2: Report of FillP — Data Link



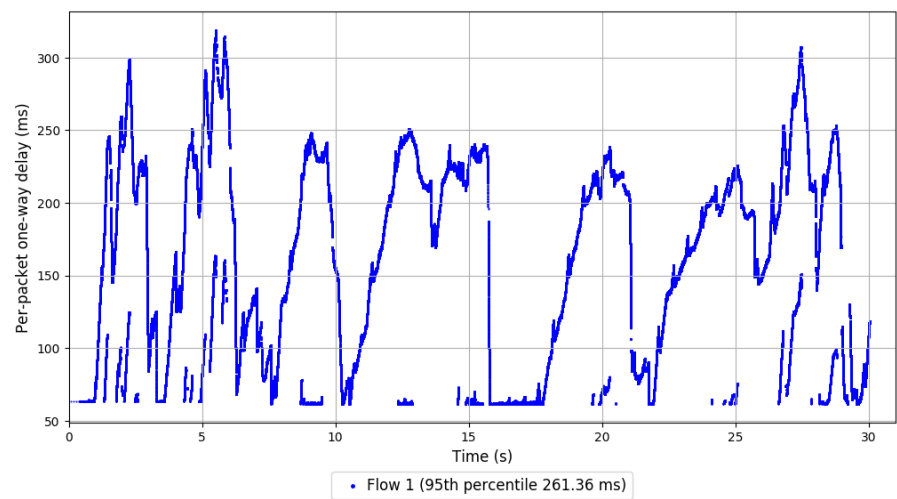
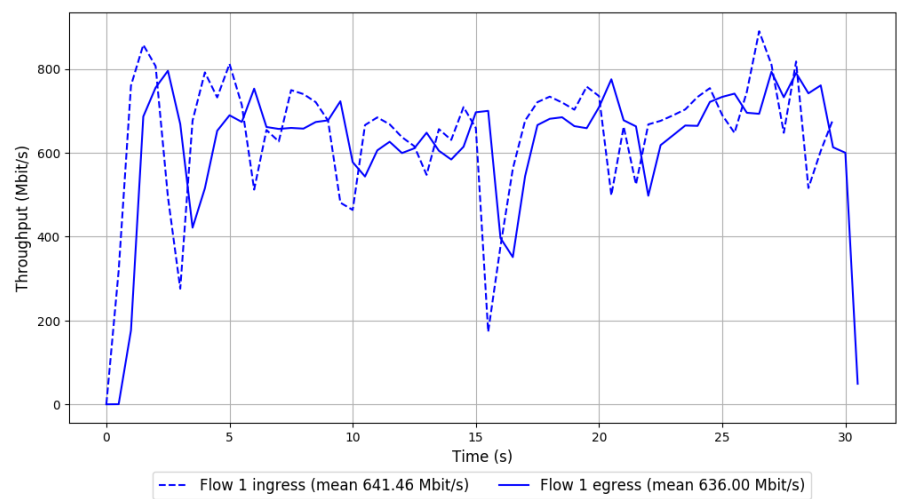
Run 3: Statistics of FillP

Start at: 2018-06-06 02:00:48  
End at: 2018-06-06 02:01:18  
Local clock offset: -0.054 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-06 05:09:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 636.00 Mbit/s  
95th percentile per-packet one-way delay: 261.360 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 636.00 Mbit/s  
95th percentile per-packet one-way delay: 261.360 ms  
Loss rate: 0.85%



Run 3: Report of FillP — Data Link

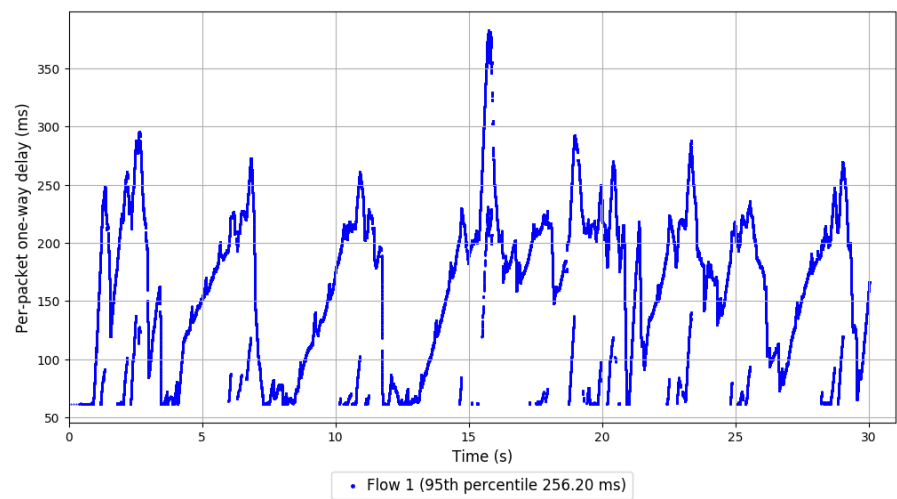
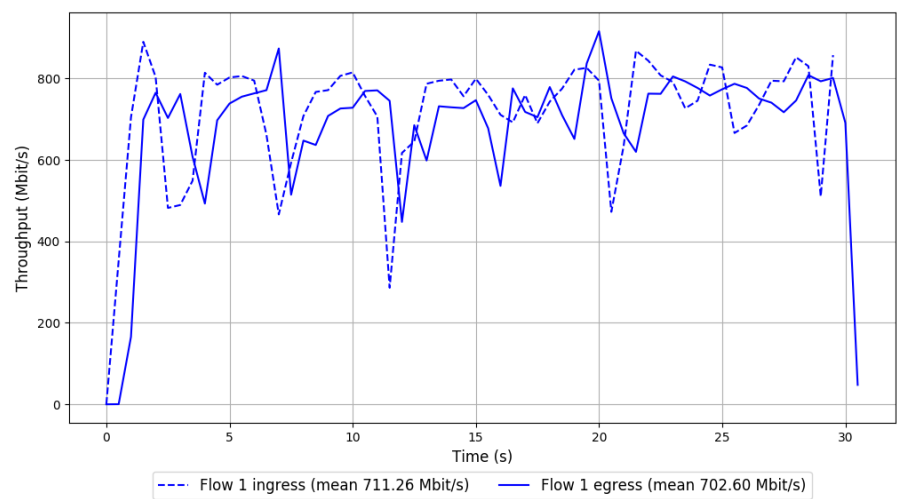


Run 4: Statistics of FillP

Start at: 2018-06-06 02:20:59  
End at: 2018-06-06 02:21:29  
Local clock offset: -0.031 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-06 05:10:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 702.60 Mbit/s  
95th percentile per-packet one-way delay: 256.196 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 702.60 Mbit/s  
95th percentile per-packet one-way delay: 256.196 ms  
Loss rate: 1.21%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2018-06-06 02:41:21

End at: 2018-06-06 02:41:51

Local clock offset: -0.03 ms

Remote clock offset: 0.184 ms

# Below is generated by plot.py at 2018-06-06 05:10:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 647.91 Mbit/s

95th percentile per-packet one-way delay: 235.459 ms

Loss rate: 0.28%

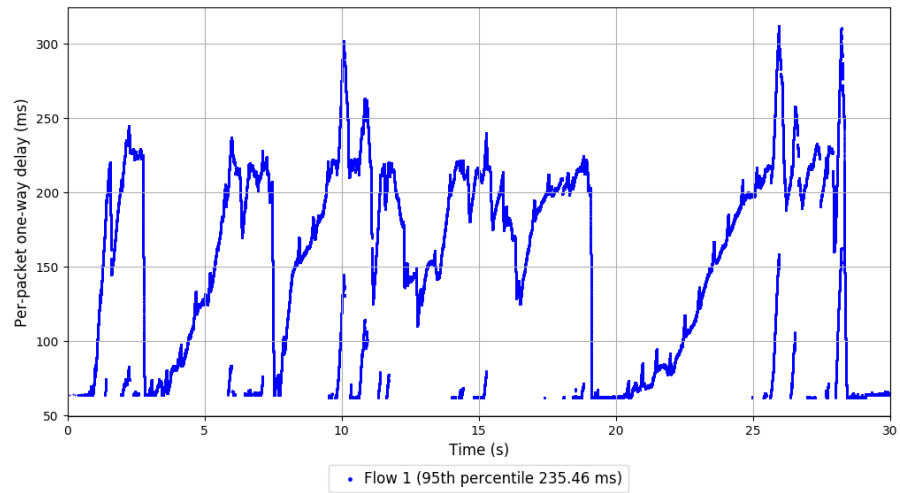
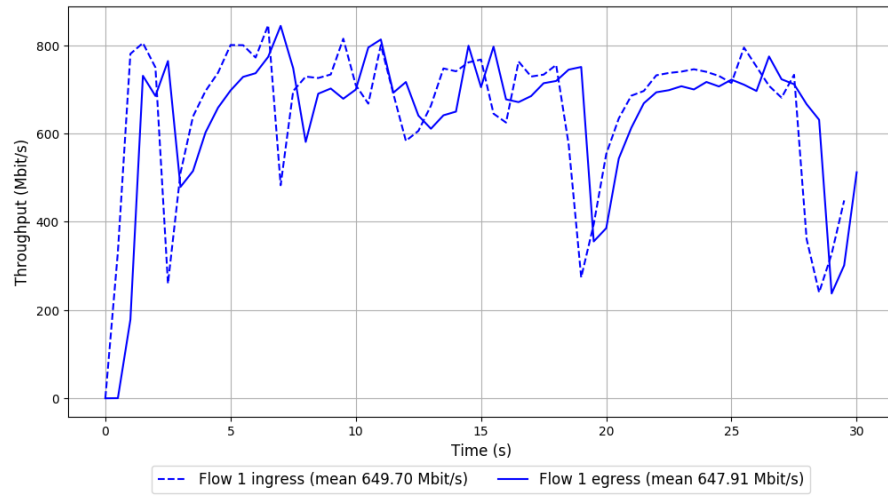
-- Flow 1:

Average throughput: 647.91 Mbit/s

95th percentile per-packet one-way delay: 235.459 ms

Loss rate: 0.28%

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



Run 6: Statistics of FillP

Start at: 2018-06-06 03:01:11

End at: 2018-06-06 03:01:41

Local clock offset: -0.028 ms

Remote clock offset: 0.352 ms

# Below is generated by plot.py at 2018-06-06 05:10:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 125.58 Mbit/s

95th percentile per-packet one-way delay: 256.111 ms

Loss rate: 2.36%

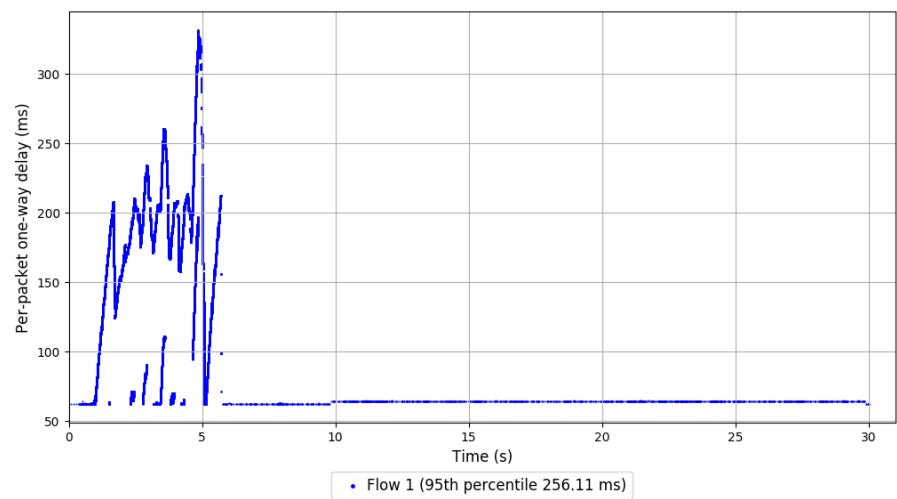
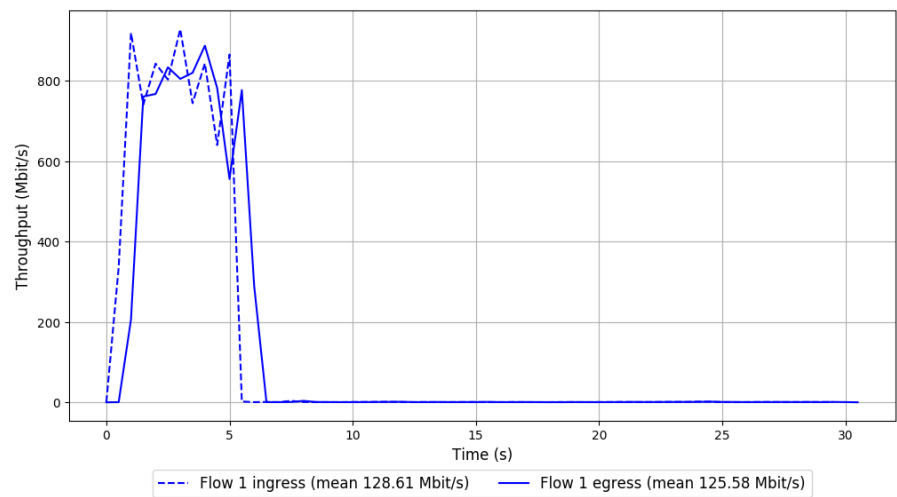
-- Flow 1:

Average throughput: 125.58 Mbit/s

95th percentile per-packet one-way delay: 256.111 ms

Loss rate: 2.36%

Run 6: Report of FillP — Data Link



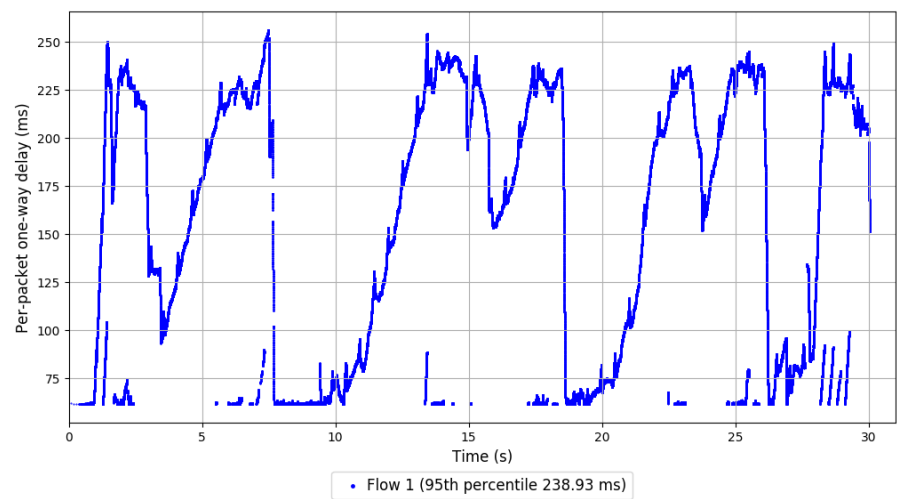
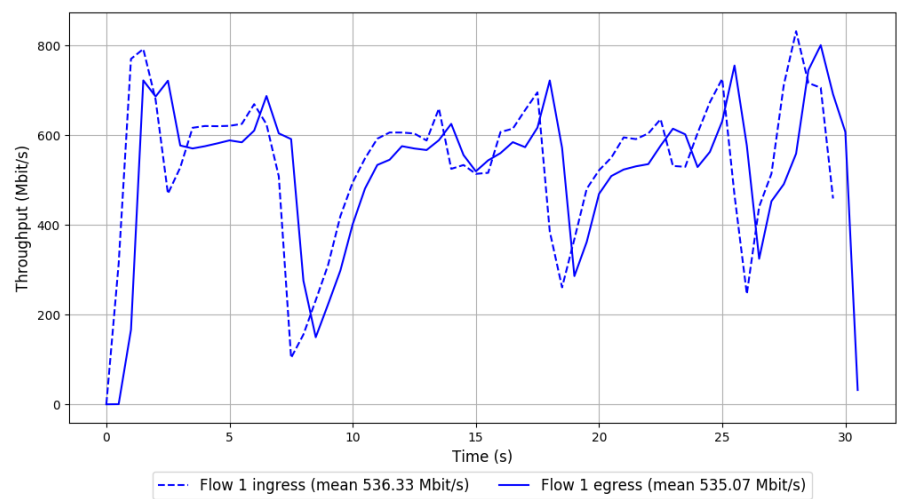
Run 7: Statistics of FillP

Start at: 2018-06-06 03:21:09  
End at: 2018-06-06 03:21:39  
Local clock offset: 0.011 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-06 05:10:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 535.07 Mbit/s  
95th percentile per-packet one-way delay: 238.931 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 535.07 Mbit/s  
95th percentile per-packet one-way delay: 238.931 ms  
Loss rate: 0.23%



Run 7: Report of FillP — Data Link

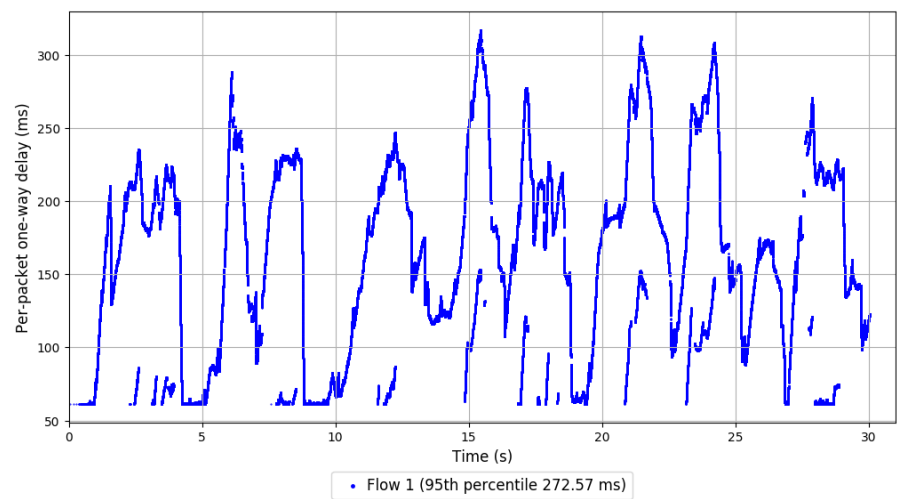
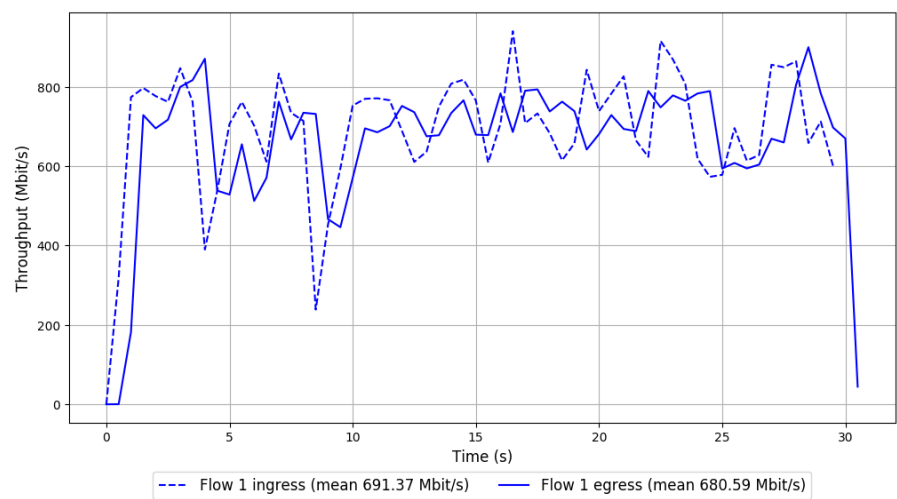


Run 8: Statistics of FillP

Start at: 2018-06-06 03:41:11  
End at: 2018-06-06 03:41:41  
Local clock offset: 0.011 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2018-06-06 05:11:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 680.59 Mbit/s  
95th percentile per-packet one-way delay: 272.574 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 680.59 Mbit/s  
95th percentile per-packet one-way delay: 272.574 ms  
Loss rate: 1.55%

Run 8: Report of FillP — Data Link

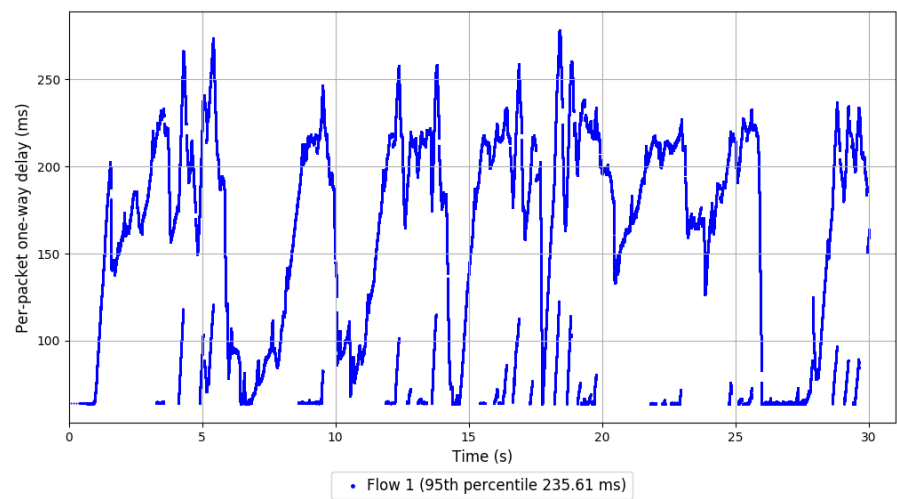
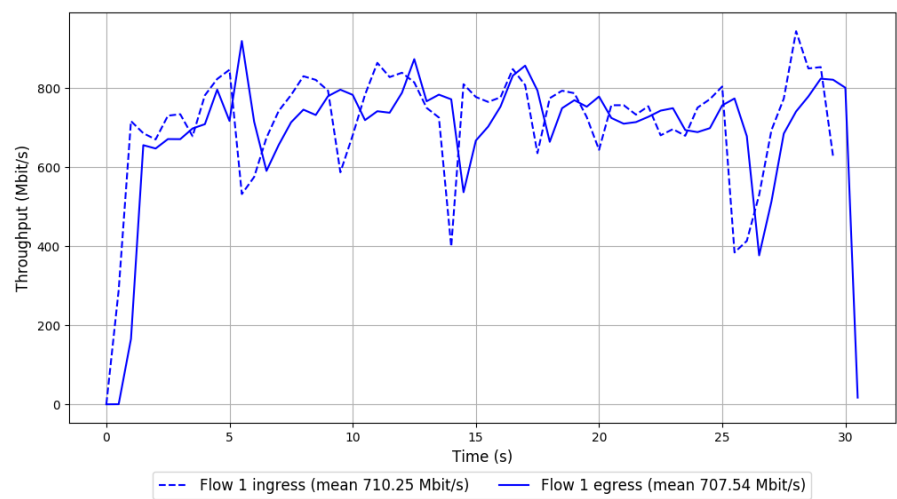


Run 9: Statistics of FillP

Start at: 2018-06-06 04:01:24  
End at: 2018-06-06 04:01:54  
Local clock offset: -0.054 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2018-06-06 05:14:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 707.54 Mbit/s  
95th percentile per-packet one-way delay: 235.612 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 707.54 Mbit/s  
95th percentile per-packet one-way delay: 235.612 ms  
Loss rate: 0.38%

Run 9: Report of FillP — Data Link

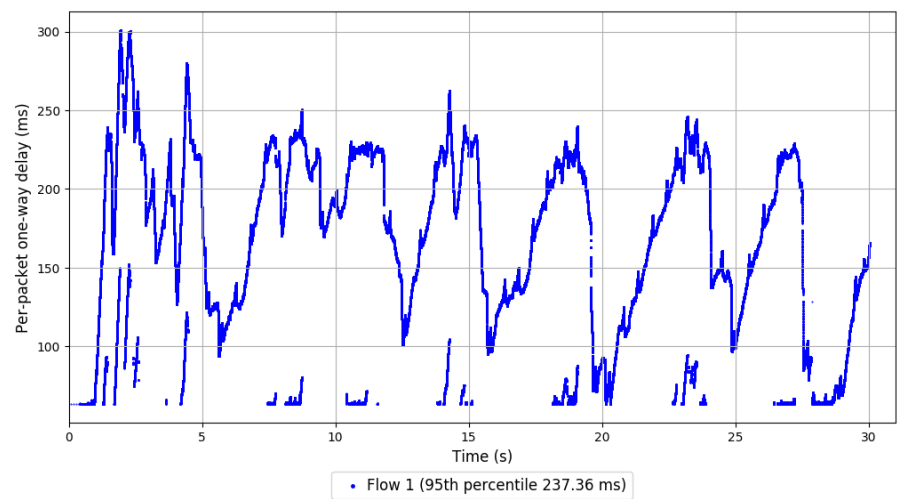
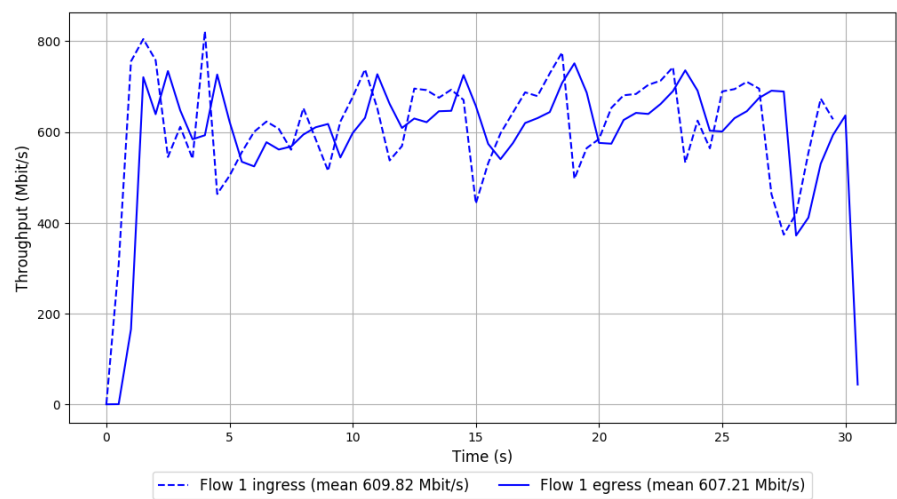


Run 10: Statistics of FillP

Start at: 2018-06-06 04:21:26  
End at: 2018-06-06 04:21:56  
Local clock offset: -0.05 ms  
Remote clock offset: -0.337 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 607.21 Mbit/s  
95th percentile per-packet one-way delay: 237.359 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 607.21 Mbit/s  
95th percentile per-packet one-way delay: 237.359 ms  
Loss rate: 0.43%

Run 10: Report of FillP — Data Link



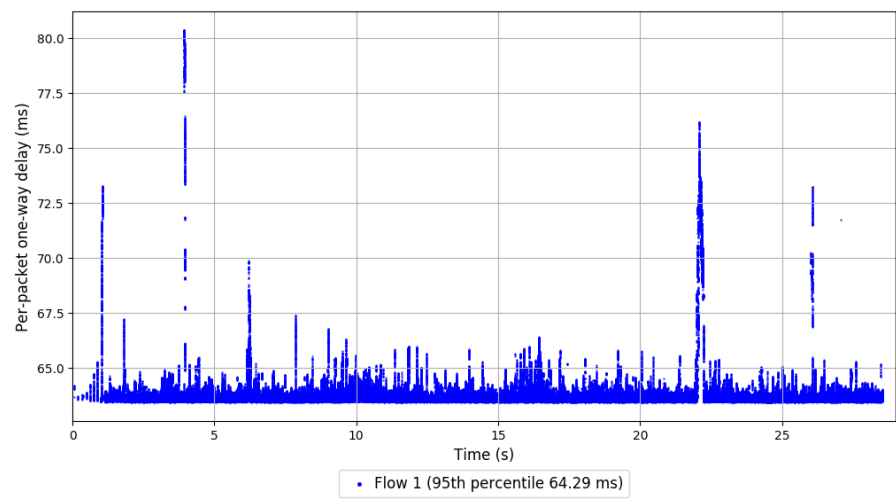
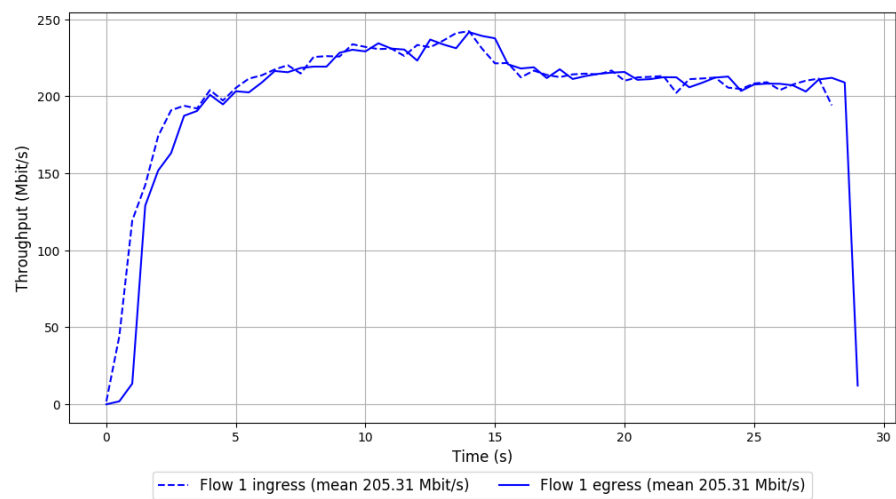
```
Run 1: Statistics of Indigo

Start at: 2018-06-06 01:32:13
End at: 2018-06-06 01:32:43
Local clock offset: -0.011 ms
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-06 05:21:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 205.31 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 205.31 Mbit/s
95th percentile per-packet one-way delay: 64.289 ms
Loss rate: 0.00%
```



Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-06-06 01:52:21

End at: 2018-06-06 01:52:51

Local clock offset: -0.077 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 184.83 Mbit/s

95th percentile per-packet one-way delay: 83.542 ms

Loss rate: 0.05%

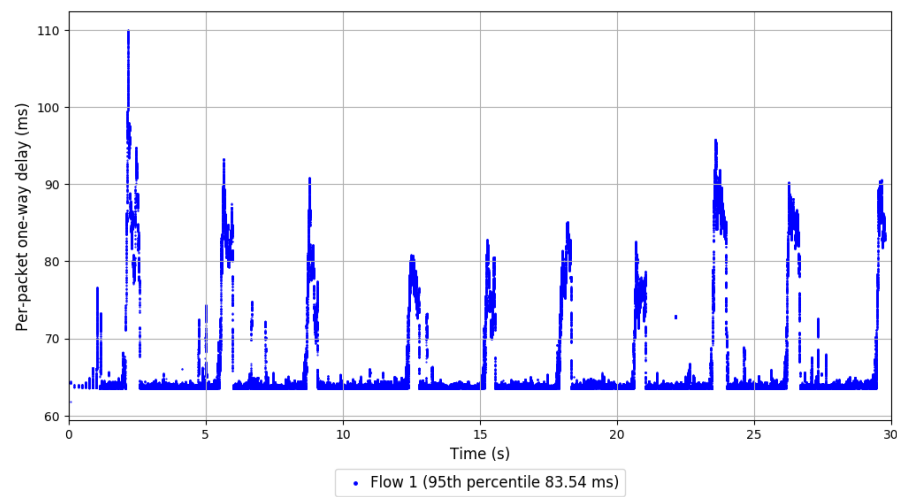
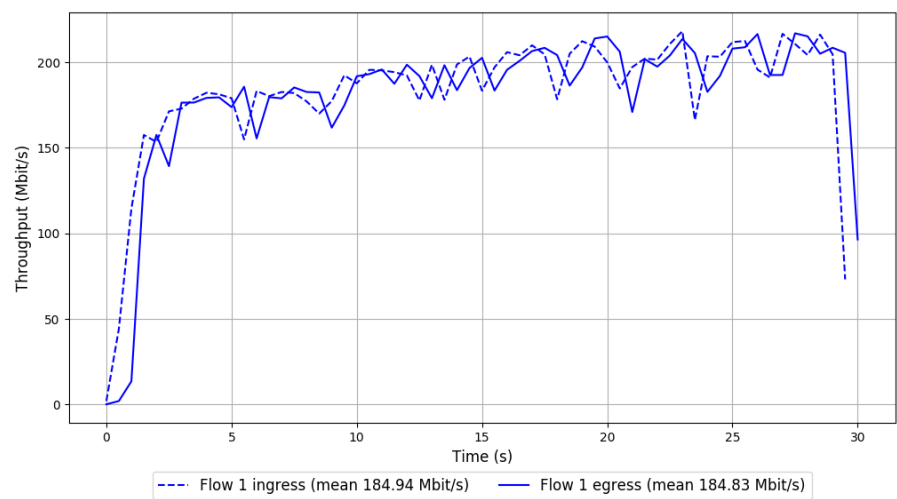
-- Flow 1:

Average throughput: 184.83 Mbit/s

95th percentile per-packet one-way delay: 83.542 ms

Loss rate: 0.05%

Run 2: Report of Indigo — Data Link

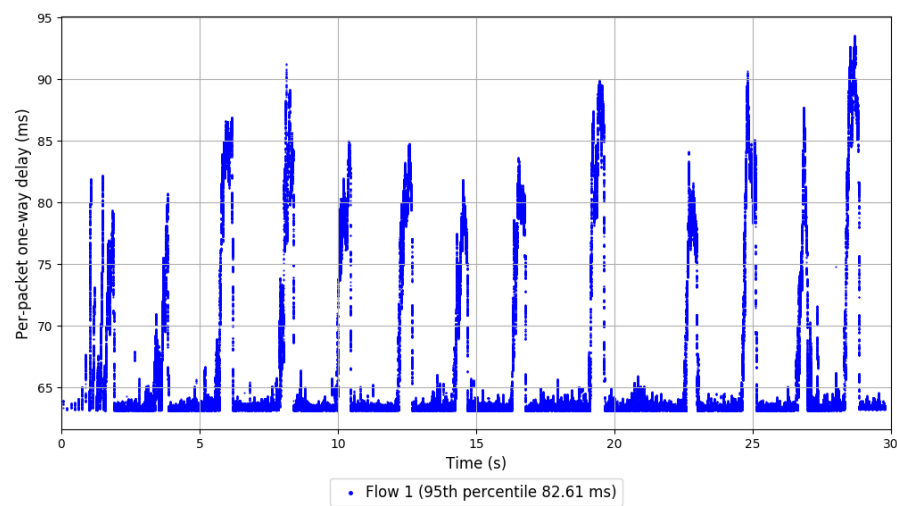
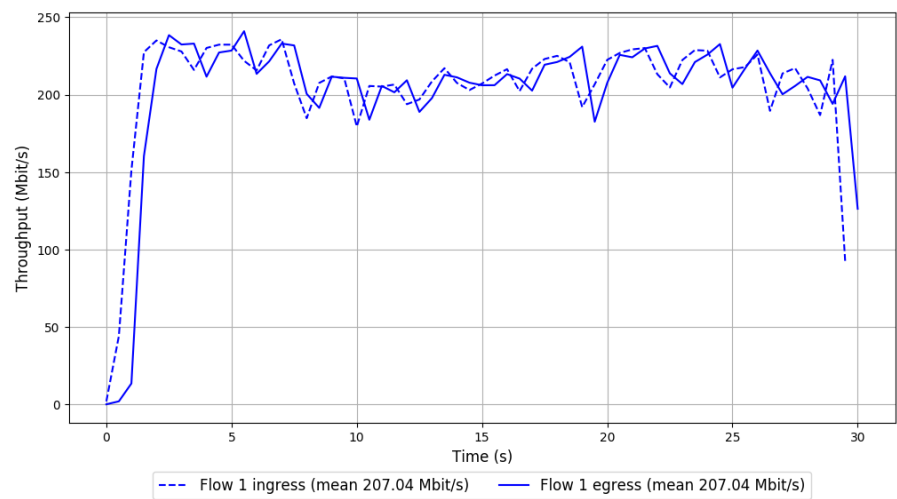


Run 3: Statistics of Indigo

Start at: 2018-06-06 02:12:32  
End at: 2018-06-06 02:13:02  
Local clock offset: -0.053 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 207.04 Mbit/s  
95th percentile per-packet one-way delay: 82.614 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 207.04 Mbit/s  
95th percentile per-packet one-way delay: 82.614 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

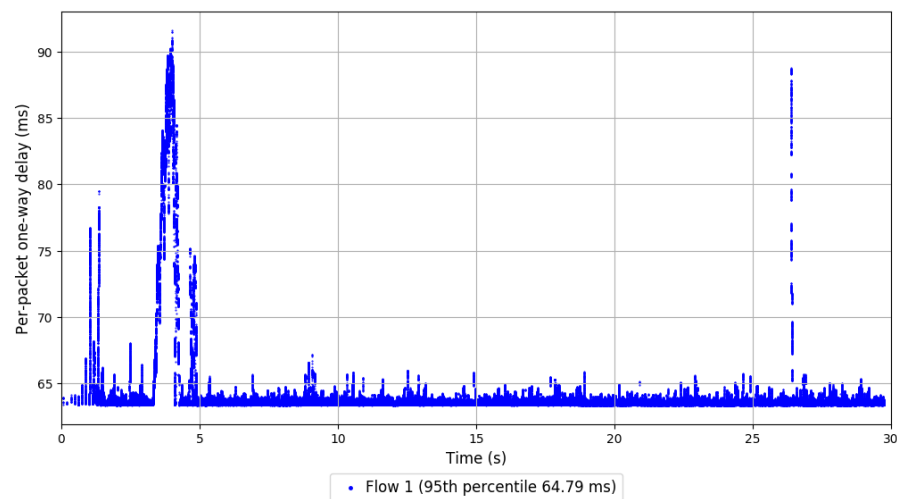
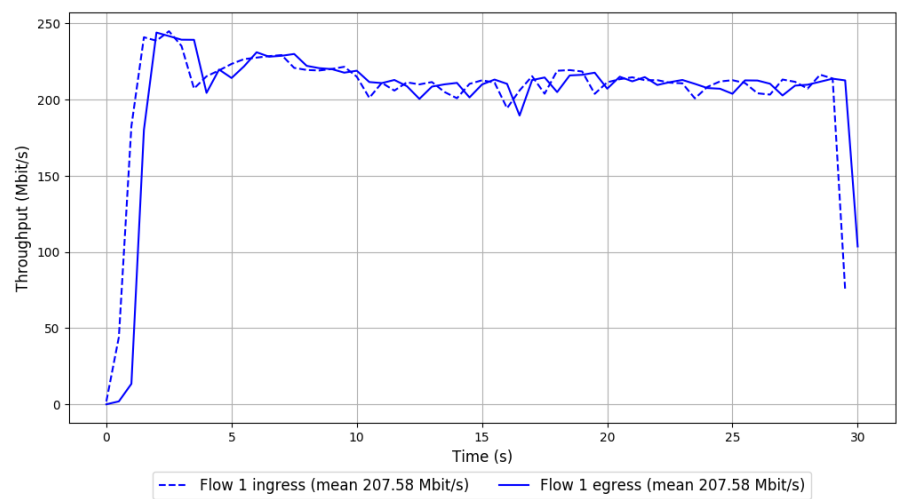


Run 4: Statistics of Indigo

Start at: 2018-06-06 02:32:52  
End at: 2018-06-06 02:33:22  
Local clock offset: -0.061 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 207.58 Mbit/s  
95th percentile per-packet one-way delay: 64.790 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 207.58 Mbit/s  
95th percentile per-packet one-way delay: 64.790 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-06-06 02:52:43

End at: 2018-06-06 02:53:13

Local clock offset: -0.031 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.00 Mbit/s

95th percentile per-packet one-way delay: 64.199 ms

Loss rate: 0.00%

-- Flow 1:

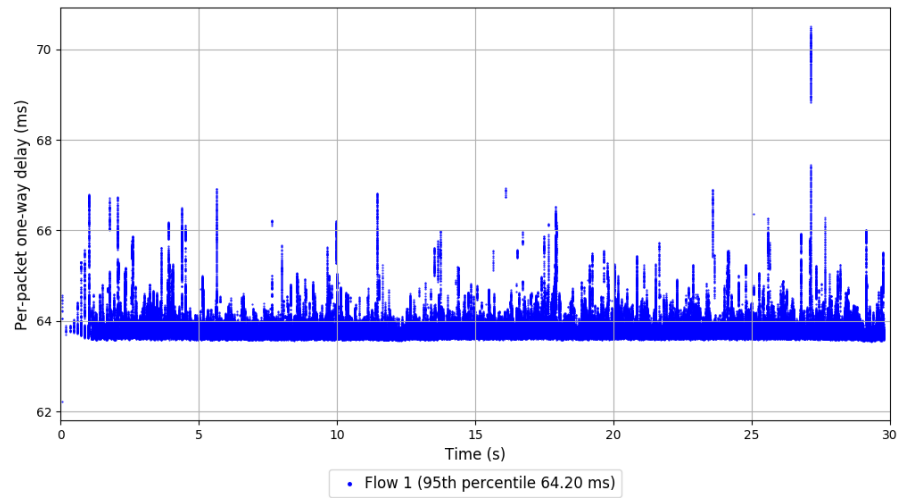
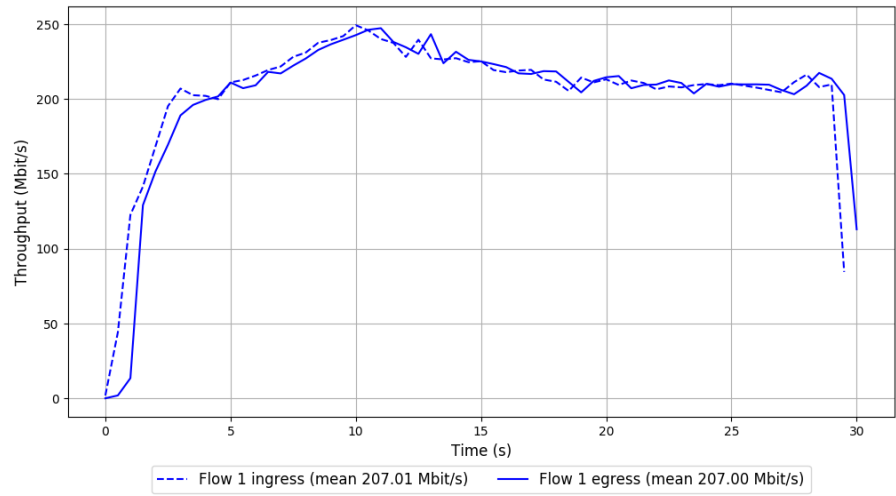
Average throughput: 207.00 Mbit/s

95th percentile per-packet one-way delay: 64.199 ms

Loss rate: 0.00%



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

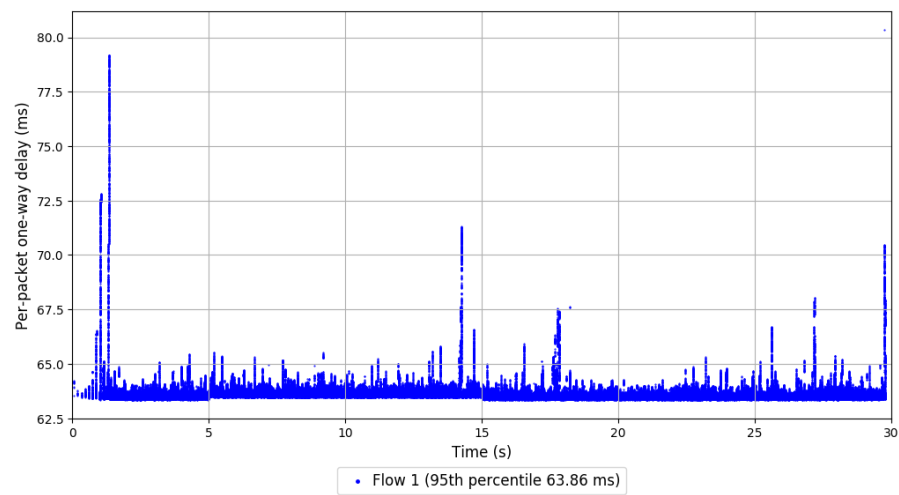
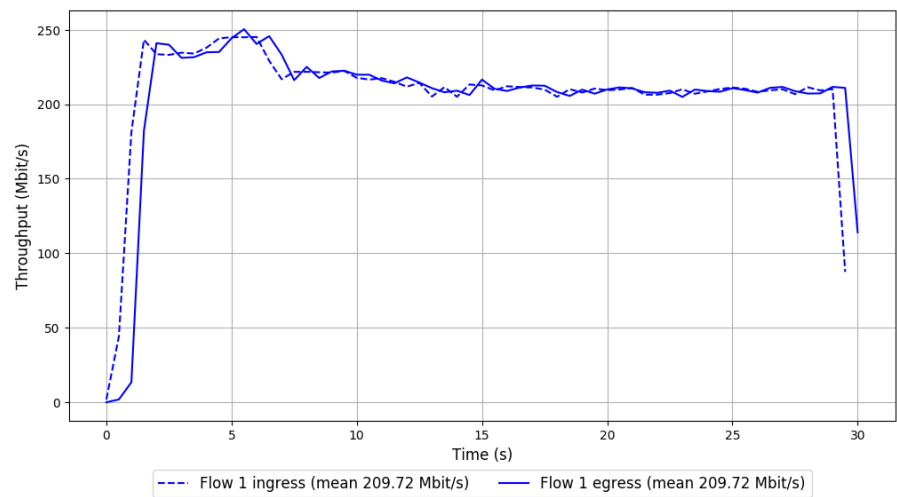


Run 6: Statistics of Indigo

Start at: 2018-06-06 03:12:35  
End at: 2018-06-06 03:13:05  
Local clock offset: -0.014 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 209.72 Mbit/s  
95th percentile per-packet one-way delay: 63.862 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 209.72 Mbit/s  
95th percentile per-packet one-way delay: 63.862 ms  
Loss rate: 0.00%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-06-06 03:32:36

End at: 2018-06-06 03:33:06

Local clock offset: -0.028 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 217.32 Mbit/s

95th percentile per-packet one-way delay: 64.115 ms

Loss rate: 0.00%

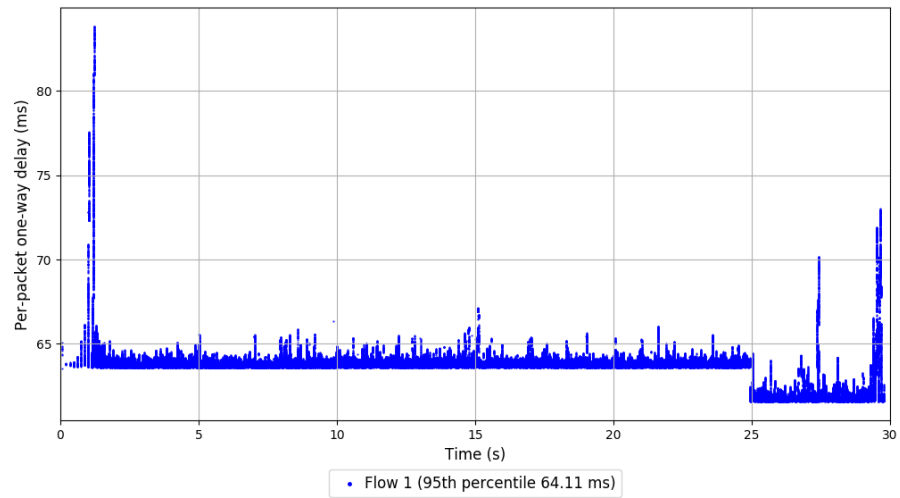
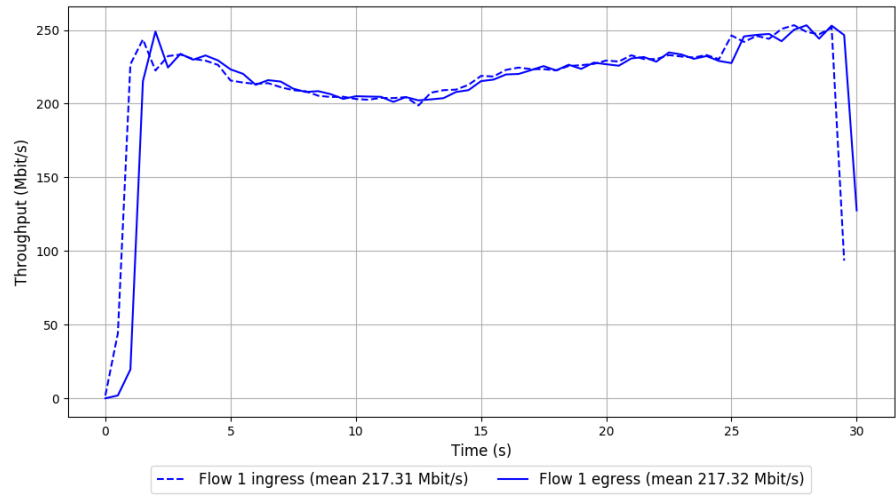
-- Flow 1:

Average throughput: 217.32 Mbit/s

95th percentile per-packet one-way delay: 64.115 ms

Loss rate: 0.00%

## Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-06-06 03:52:50

End at: 2018-06-06 03:53:20

Local clock offset: -0.023 ms

Remote clock offset: 0.055 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 221.79 Mbit/s

95th percentile per-packet one-way delay: 64.590 ms

Loss rate: 0.00%

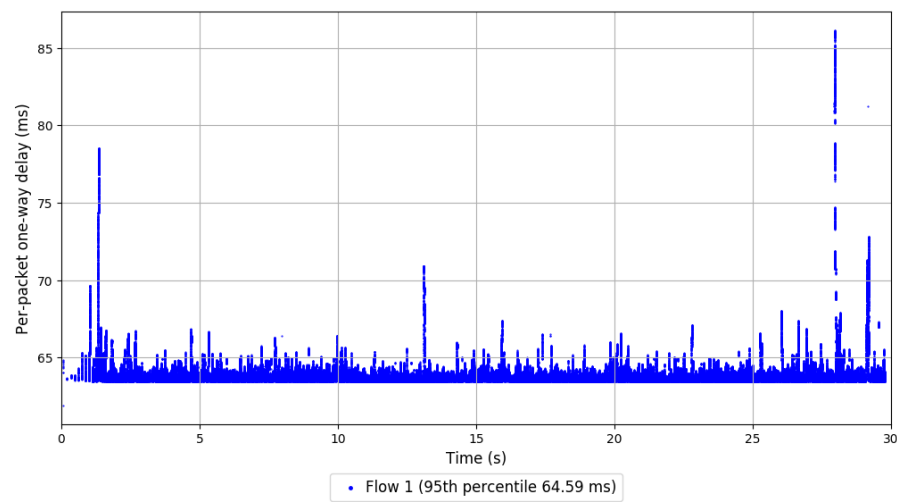
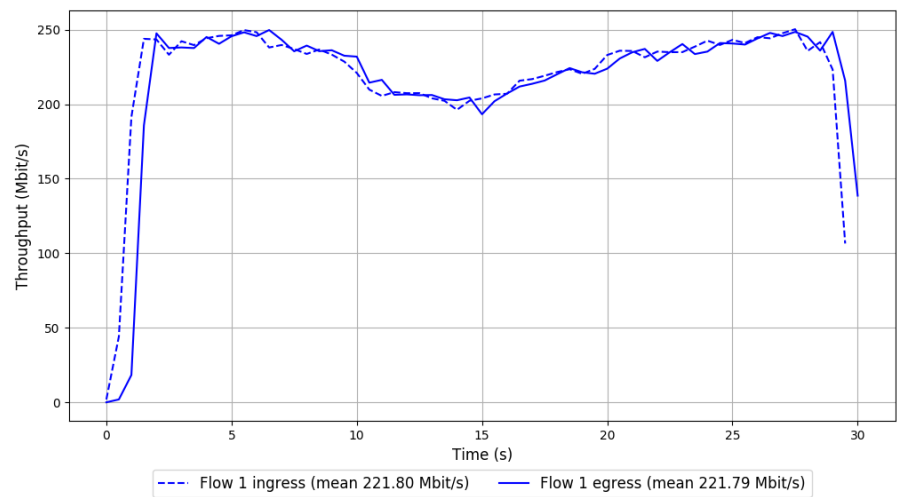
-- Flow 1:

Average throughput: 221.79 Mbit/s

95th percentile per-packet one-way delay: 64.590 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link



Run 9: Statistics of Indigo

Start at: 2018-06-06 04:12:54

End at: 2018-06-06 04:13:24

Local clock offset: -0.066 ms

Remote clock offset: 0.229 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 206.30 Mbit/s

95th percentile per-packet one-way delay: 64.218 ms

Loss rate: 0.00%

-- Flow 1:

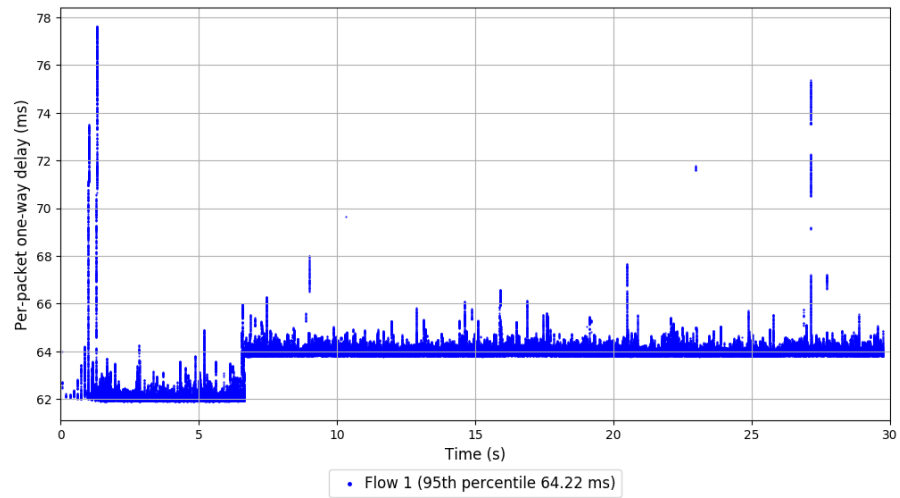
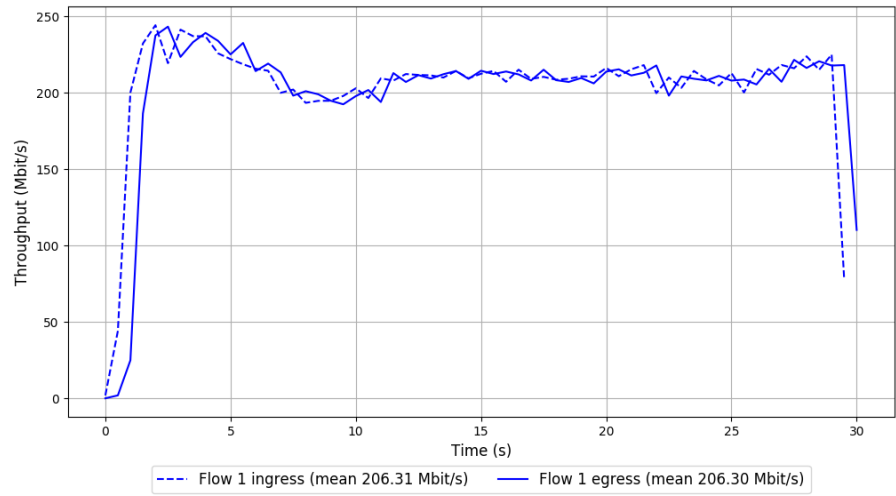
Average throughput: 206.30 Mbit/s

95th percentile per-packet one-way delay: 64.218 ms

Loss rate: 0.00%



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



Run 10: Statistics of Indigo

Start at: 2018-06-06 04:33:03

End at: 2018-06-06 04:33:33

Local clock offset: -0.015 ms

Remote clock offset: 0.098 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.51 Mbit/s

95th percentile per-packet one-way delay: 64.632 ms

Loss rate: 0.01%

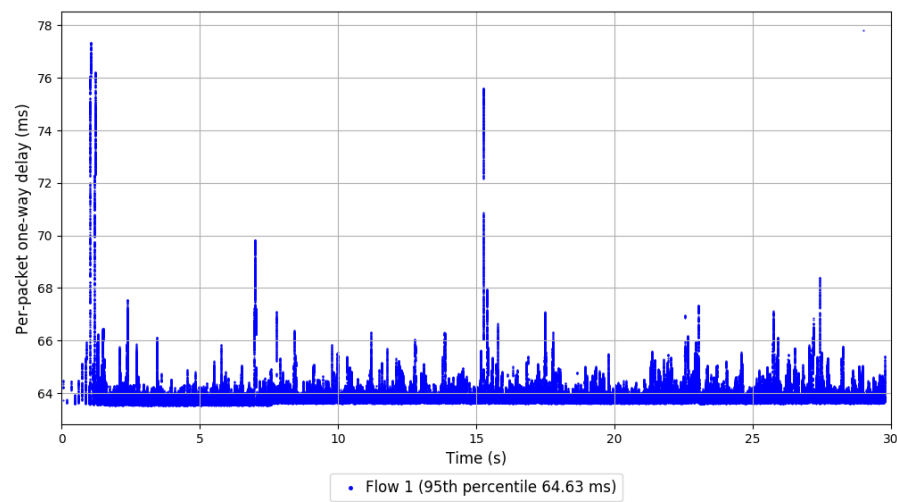
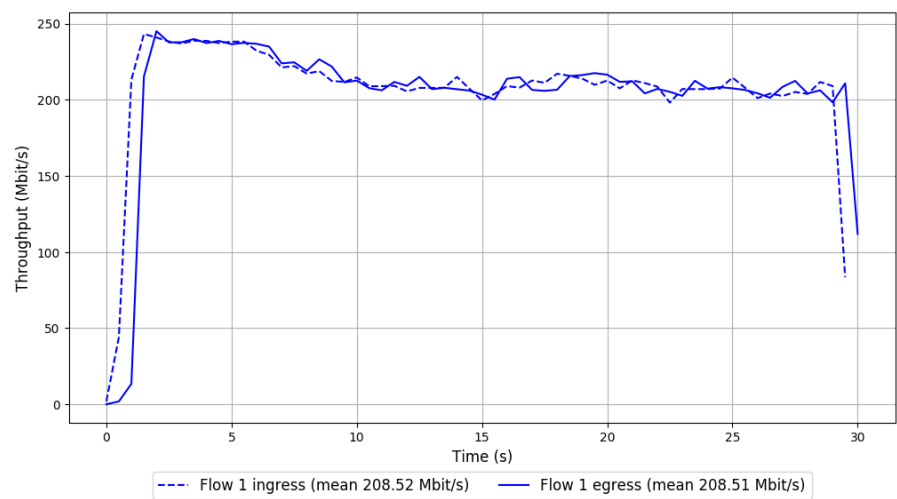
-- Flow 1:

Average throughput: 208.51 Mbit/s

95th percentile per-packet one-way delay: 64.632 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

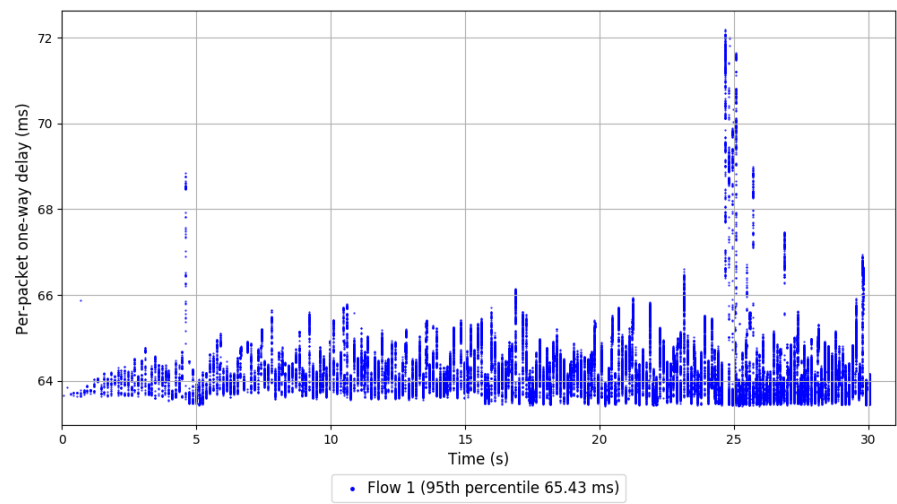
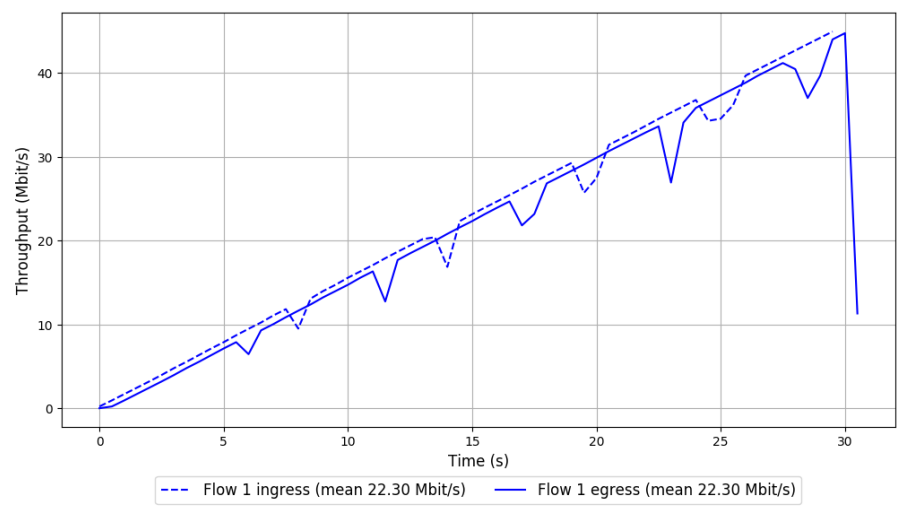


```
Run 1: Statistics of LEDBAT

Start at: 2018-06-06 01:24:25
End at: 2018-06-06 01:24:55
Local clock offset: 0.038 ms
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2018-06-06 05:21:29
# Datalink statistics
-- Total of 1 flow:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 65.428 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 22.30 Mbit/s
95th percentile per-packet one-way delay: 65.428 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link

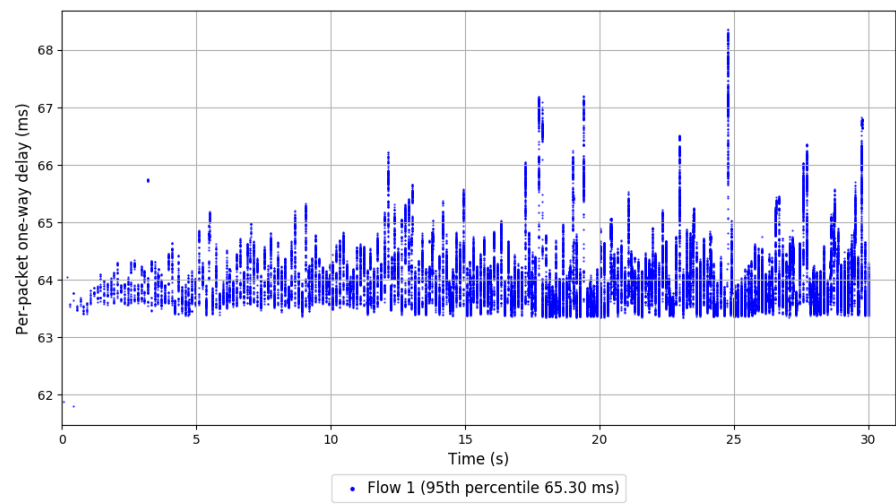
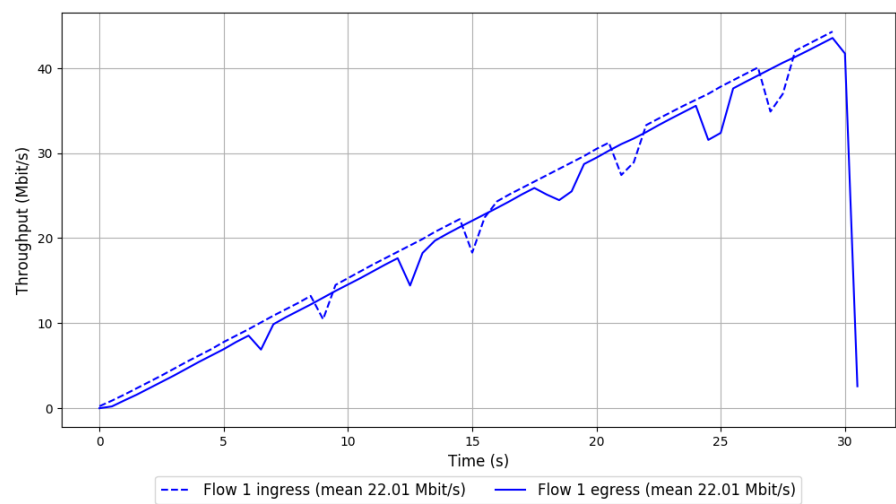


Run 2: Statistics of LEDBAT

Start at: 2018-06-06 01:44:36  
End at: 2018-06-06 01:45:06  
Local clock offset: -0.05 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.01 Mbit/s  
95th percentile per-packet one-way delay: 65.298 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.01 Mbit/s  
95th percentile per-packet one-way delay: 65.298 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



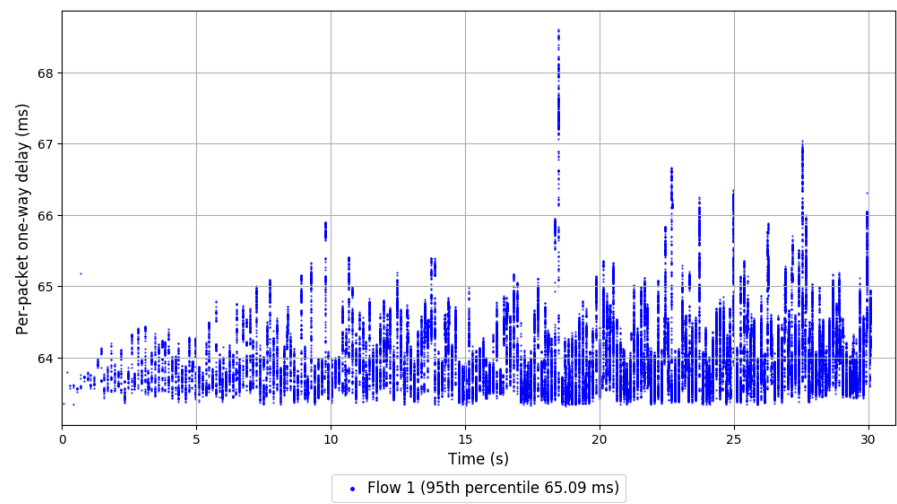
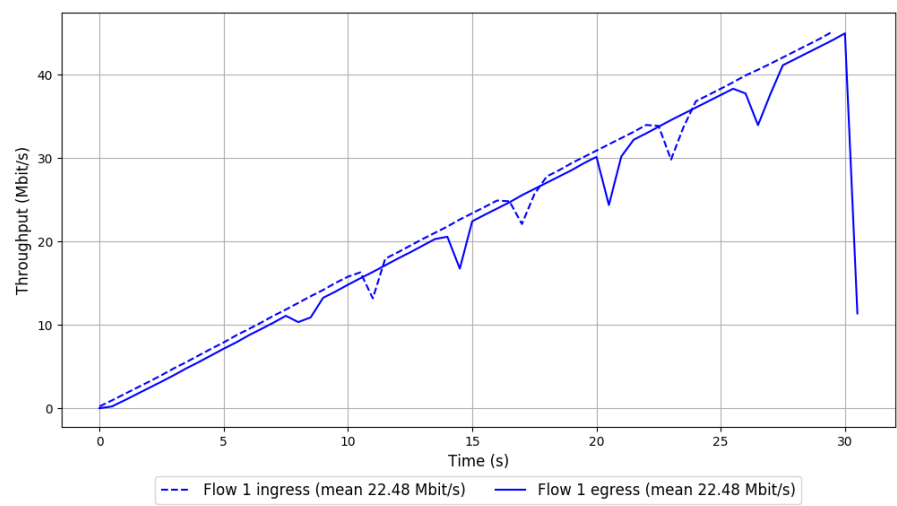
Run 3: Statistics of LEDBAT

Start at: 2018-06-06 02:04:43  
End at: 2018-06-06 02:05:13  
Local clock offset: -0.057 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.48 Mbit/s  
95th percentile per-packet one-way delay: 65.094 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.48 Mbit/s  
95th percentile per-packet one-way delay: 65.094 ms  
Loss rate: 0.00%



Run 3: Report of LEDBAT — Data Link

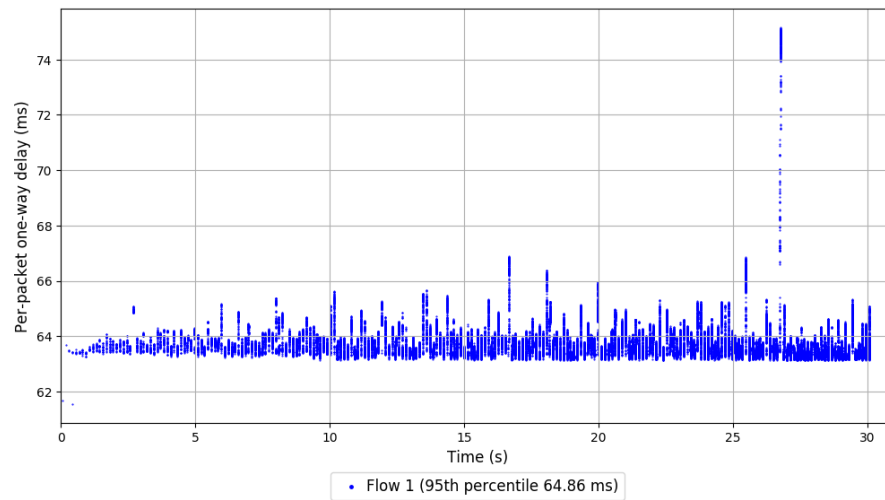
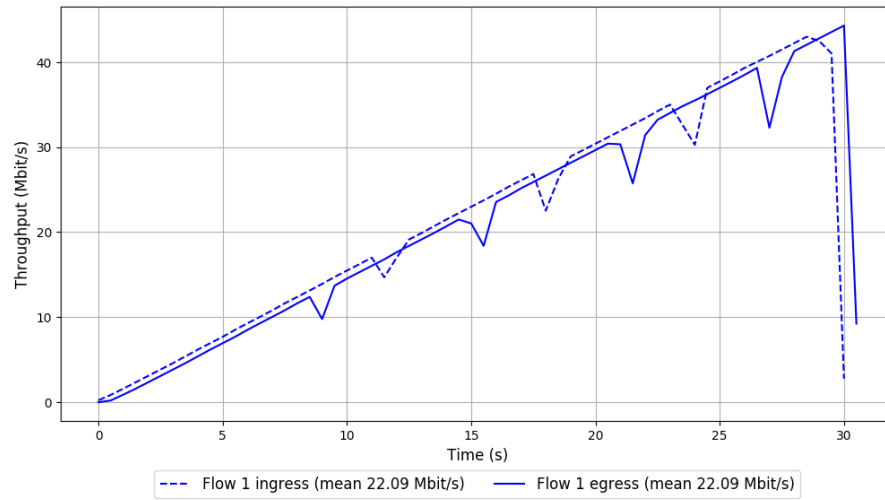


Run 4: Statistics of LEDBAT

Start at: 2018-06-06 02:25:02  
End at: 2018-06-06 02:25:32  
Local clock offset: -0.014 ms  
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.09 Mbit/s  
95th percentile per-packet one-way delay: 64.855 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.09 Mbit/s  
95th percentile per-packet one-way delay: 64.855 ms  
Loss rate: 0.00%

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



Run 5: Statistics of LEDBAT

Start at: 2018-06-06 02:45:18

End at: 2018-06-06 02:45:48

Local clock offset: -0.022 ms

Remote clock offset: -0.25 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: 64.865 ms

Loss rate: 0.00%

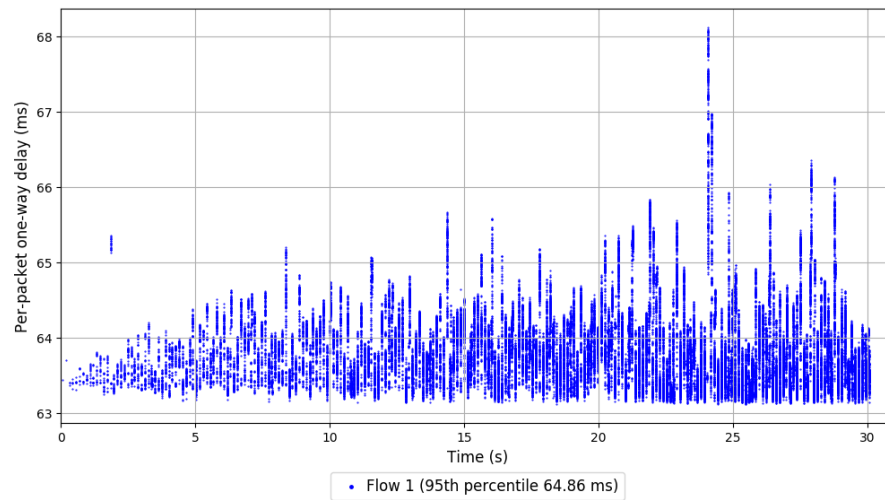
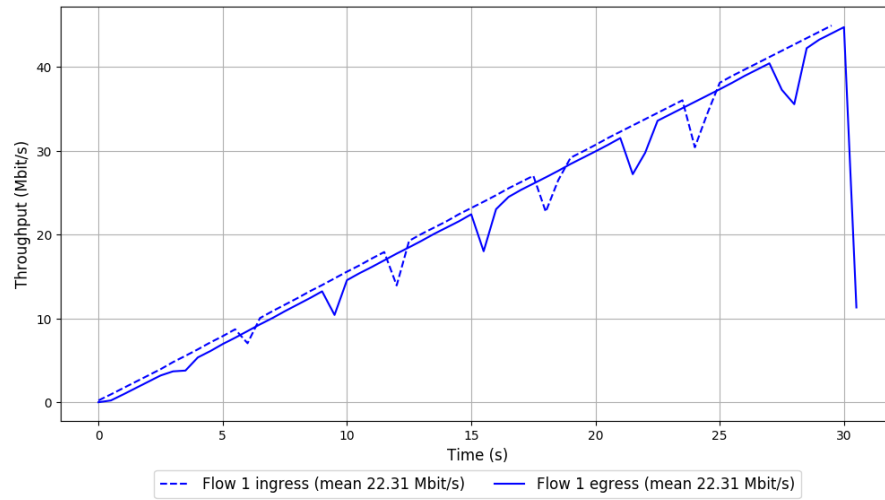
-- Flow 1:

Average throughput: 22.31 Mbit/s

95th percentile per-packet one-way delay: 64.865 ms

Loss rate: 0.00%

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

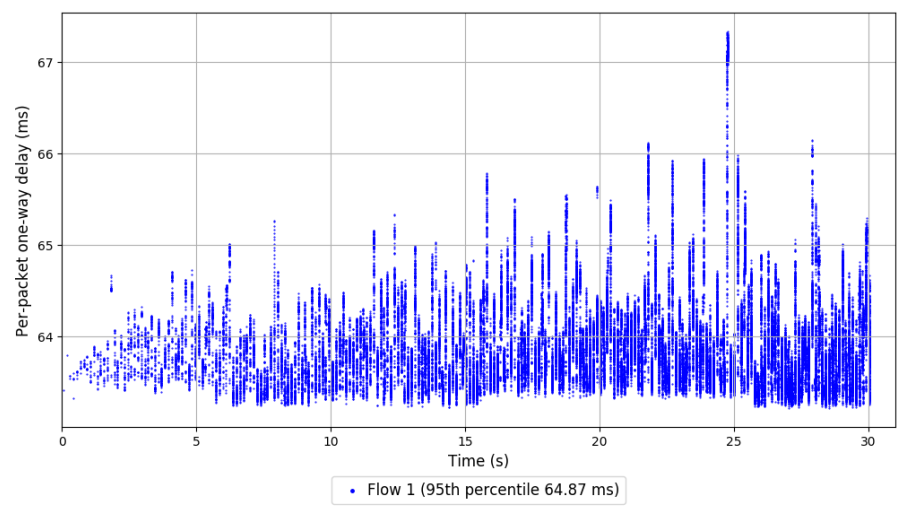
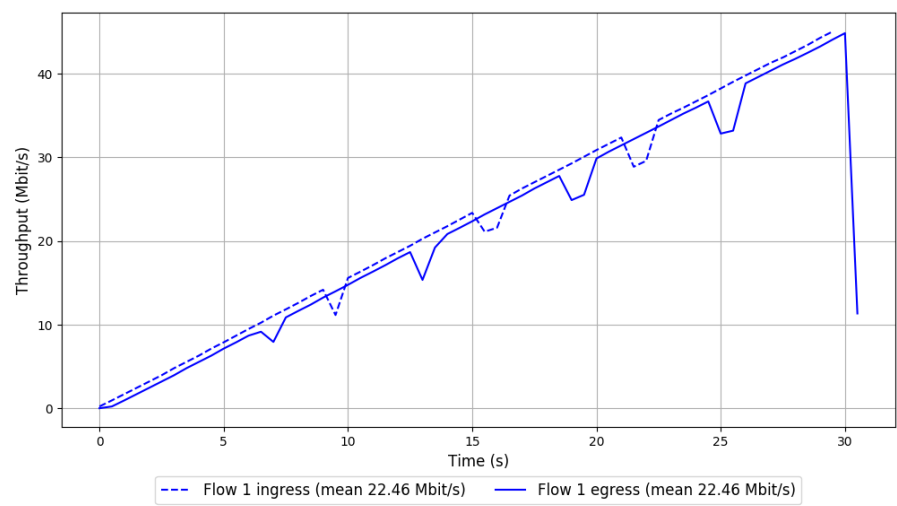


Run 6: Statistics of LEDBAT

Start at: 2018-06-06 03:04:45  
End at: 2018-06-06 03:05:15  
Local clock offset: -0.026 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.46 Mbit/s  
95th percentile per-packet one-way delay: 64.872 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.46 Mbit/s  
95th percentile per-packet one-way delay: 64.872 ms  
Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link



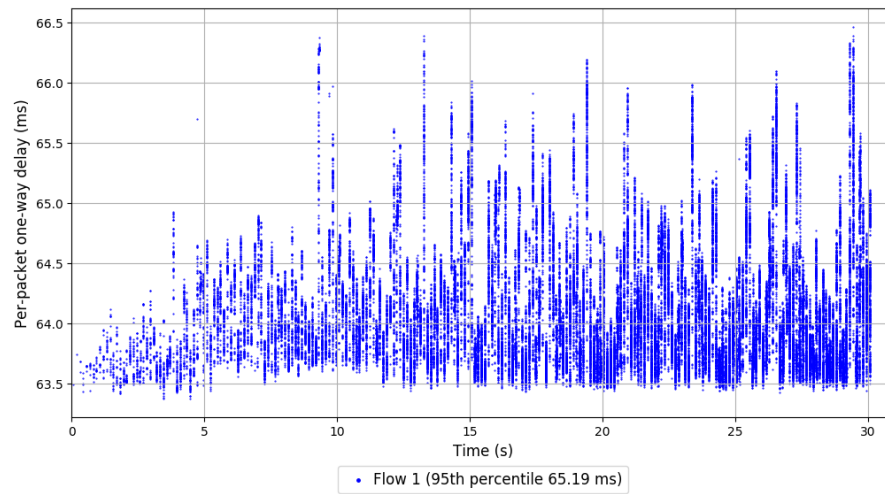
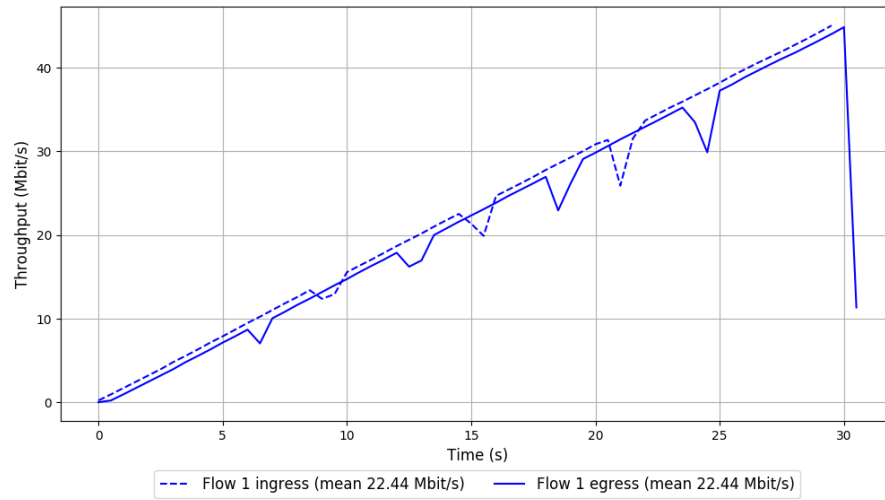
Run 7: Statistics of LEDBAT

Start at: 2018-06-06 03:24:55  
End at: 2018-06-06 03:25:25  
Local clock offset: 0.011 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.44 Mbit/s  
95th percentile per-packet one-way delay: 65.191 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.44 Mbit/s  
95th percentile per-packet one-way delay: 65.191 ms  
Loss rate: 0.00%



## Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-06-06 03:45:04

End at: 2018-06-06 03:45:34

Local clock offset: -0.027 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 65.105 ms

Loss rate: 0.00%

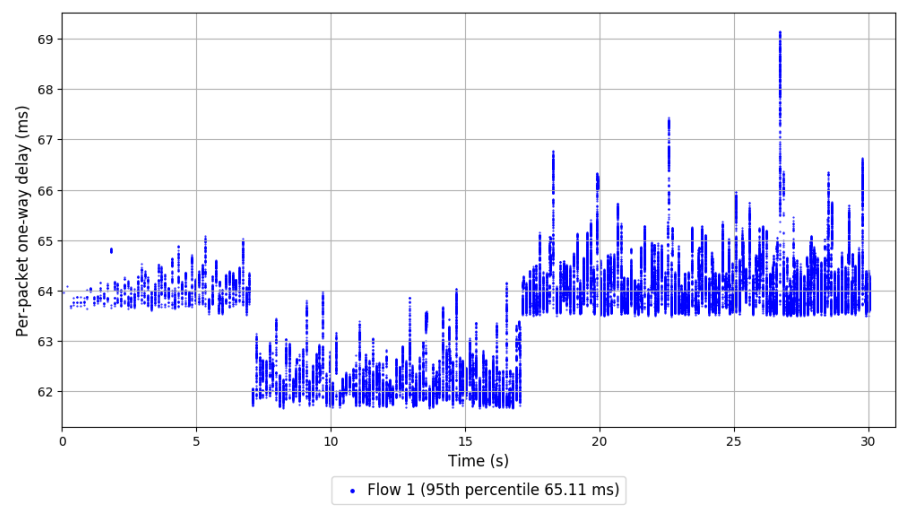
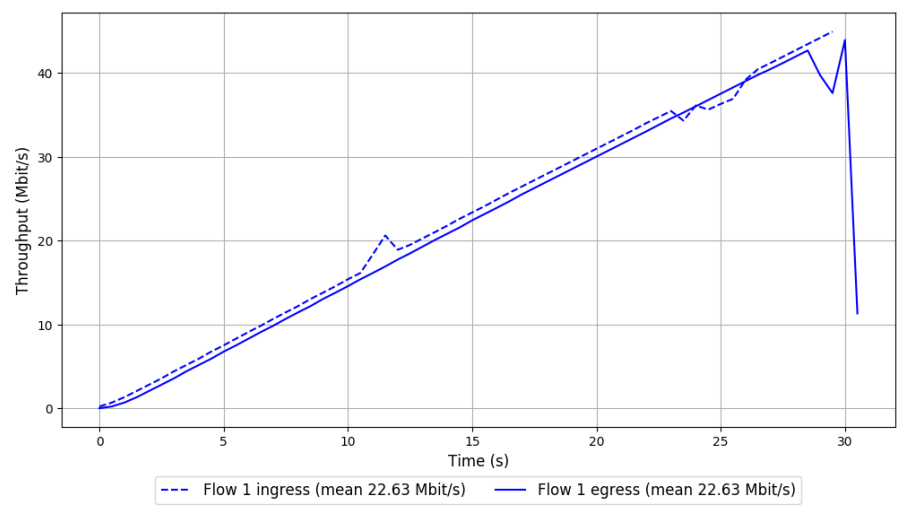
-- Flow 1:

Average throughput: 22.63 Mbit/s

95th percentile per-packet one-way delay: 65.105 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

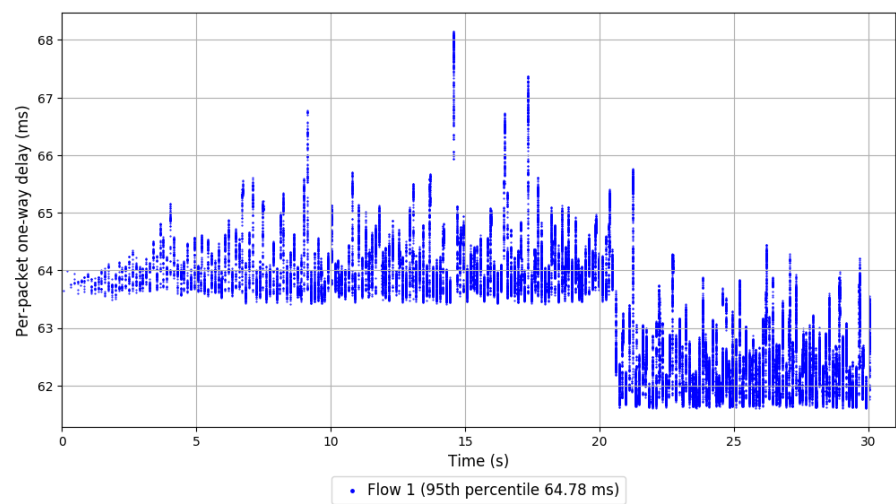
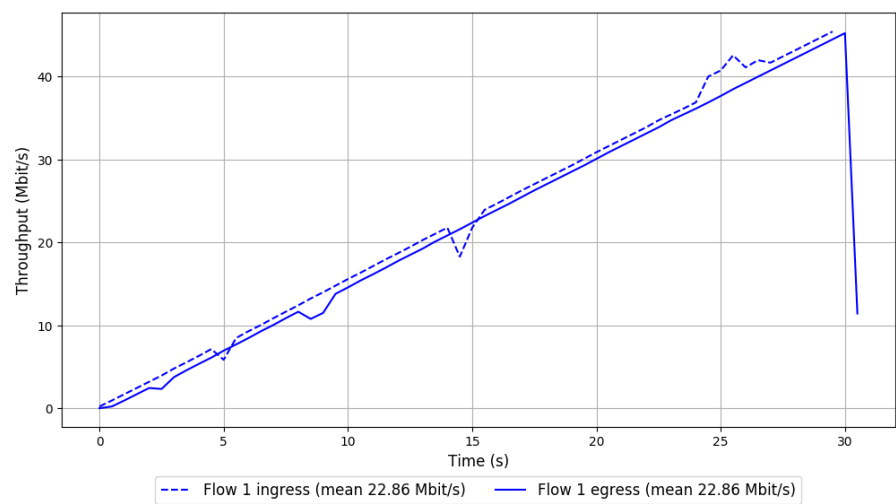


Run 9: Statistics of LEDBAT

Start at: 2018-06-06 04:05:20  
End at: 2018-06-06 04:05:50  
Local clock offset: -0.055 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.86 Mbit/s  
95th percentile per-packet one-way delay: 64.784 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.86 Mbit/s  
95th percentile per-packet one-way delay: 64.784 ms  
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link

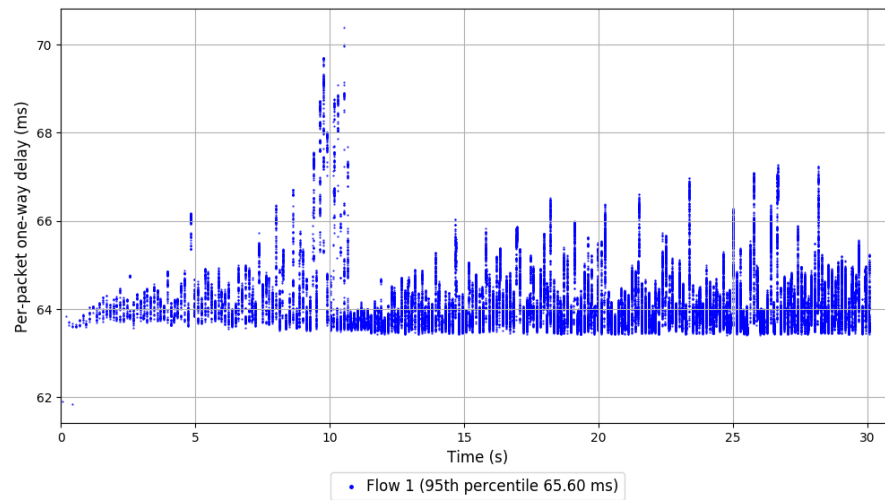
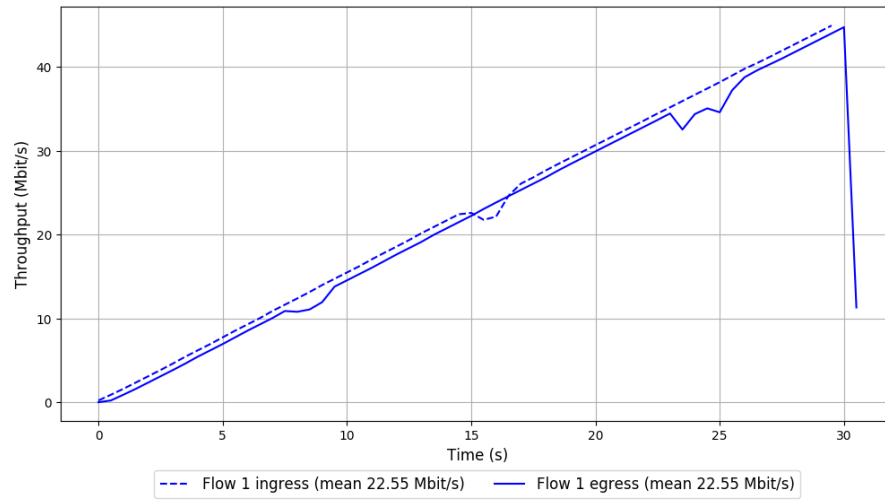


Run 10: Statistics of LEDBAT

Start at: 2018-06-06 04:25:19  
End at: 2018-06-06 04:25:49  
Local clock offset: -0.042 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.55 Mbit/s  
95th percentile per-packet one-way delay: 65.598 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 22.55 Mbit/s  
95th percentile per-packet one-way delay: 65.598 ms  
Loss rate: 0.00%

# Run 10: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2018-06-06 01:19:13

End at: 2018-06-06 01:19:43

Local clock offset: 0.064 ms

Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2018-06-06 05:21:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 306.65 Mbit/s

95th percentile per-packet one-way delay: 92.324 ms

Loss rate: 0.20%

-- Flow 1:

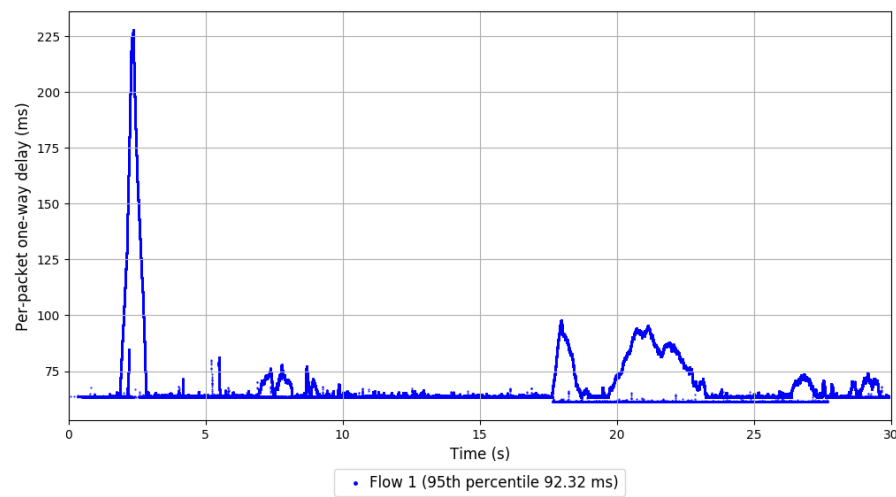
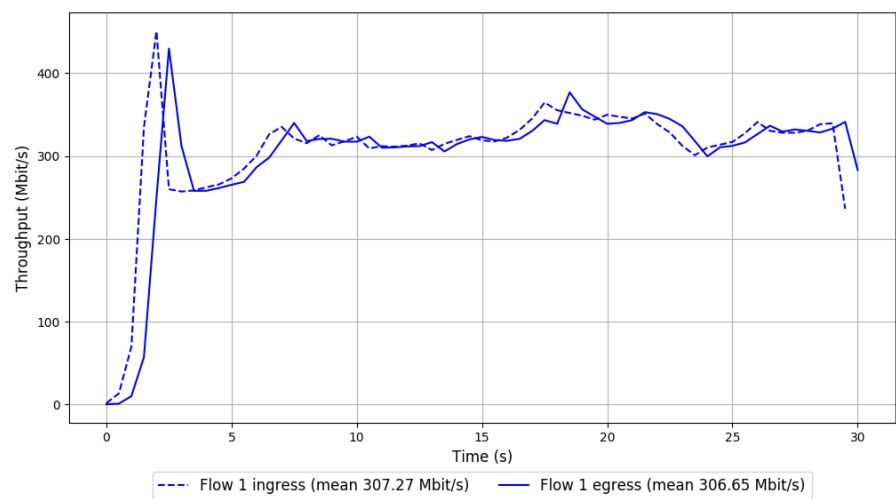
Average throughput: 306.65 Mbit/s

95th percentile per-packet one-way delay: 92.324 ms

Loss rate: 0.20%



Run 1: Report of PCC-Allegro — Data Link

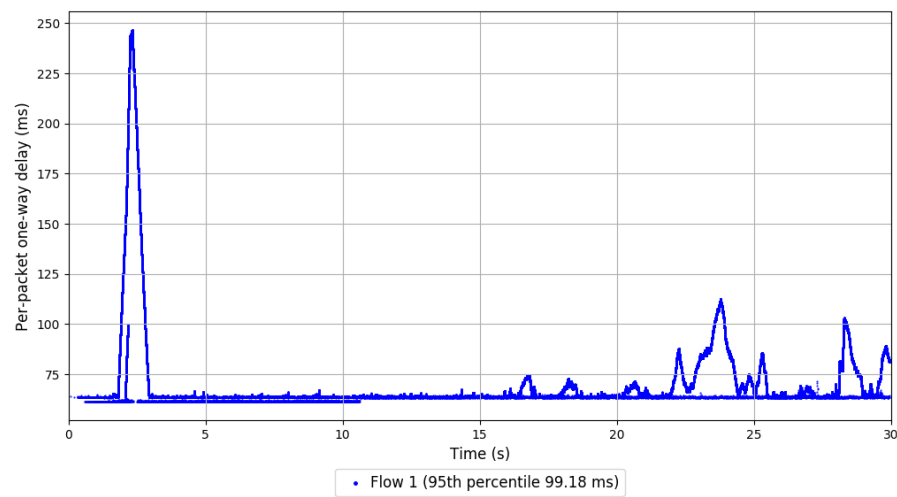
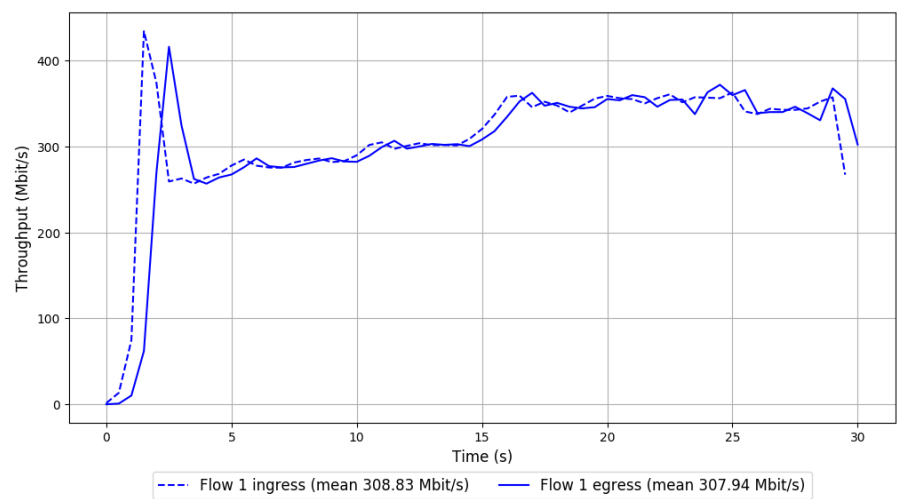


Run 2: Statistics of PCC-Allegro

Start at: 2018-06-06 01:39:20  
End at: 2018-06-06 01:39:50  
Local clock offset: -0.041 ms  
Remote clock offset: -0.242 ms

# Below is generated by plot.py at 2018-06-06 05:21:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 307.94 Mbit/s  
95th percentile per-packet one-way delay: 99.182 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 307.94 Mbit/s  
95th percentile per-packet one-way delay: 99.182 ms  
Loss rate: 0.29%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-06-06 01:59:31

End at: 2018-06-06 02:00:01

Local clock offset: -0.032 ms

Remote clock offset: 0.103 ms

# Below is generated by plot.py at 2018-06-06 05:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 328.26 Mbit/s

95th percentile per-packet one-way delay: 121.405 ms

Loss rate: 0.26%

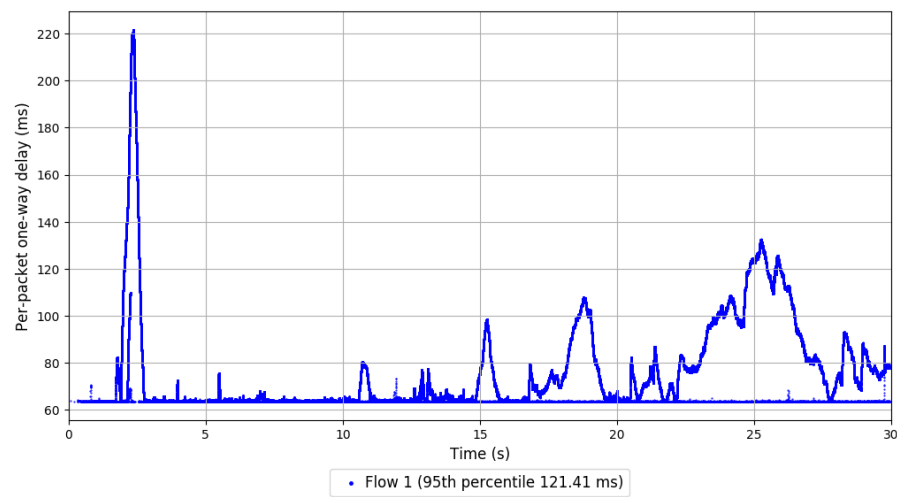
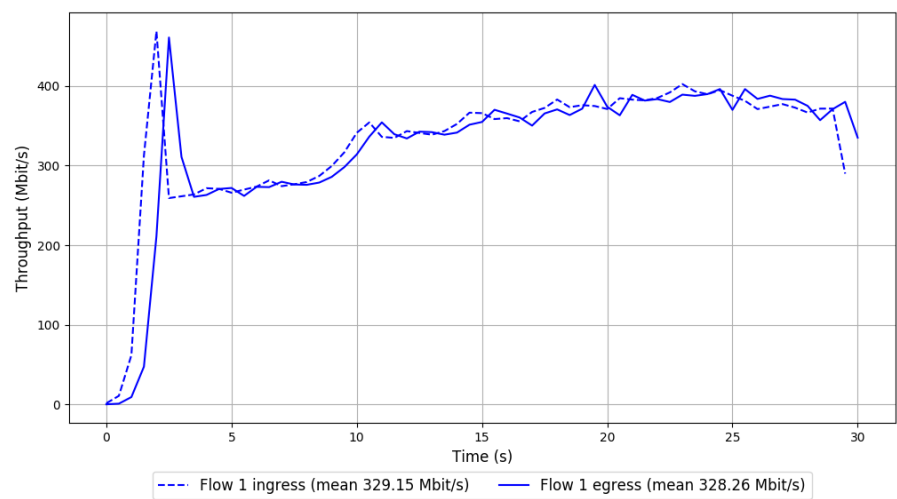
-- Flow 1:

Average throughput: 328.26 Mbit/s

95th percentile per-packet one-way delay: 121.405 ms

Loss rate: 0.26%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-06-06 02:19:43

End at: 2018-06-06 02:20:13

Local clock offset: -0.072 ms

Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-06-06 05:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 306.68 Mbit/s

95th percentile per-packet one-way delay: 92.678 ms

Loss rate: 0.28%

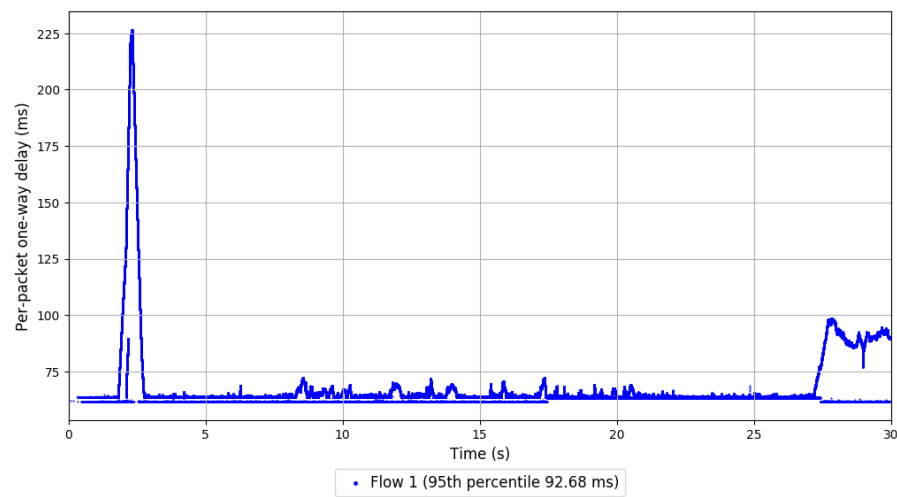
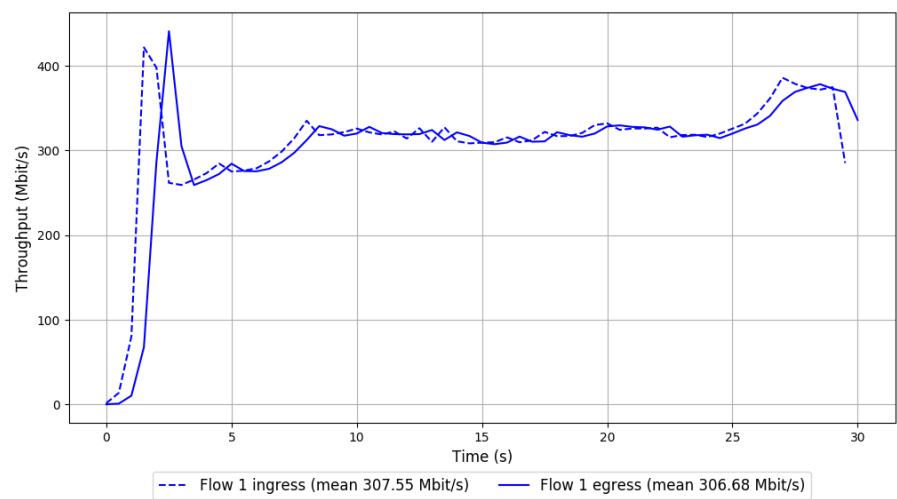
-- Flow 1:

Average throughput: 306.68 Mbit/s

95th percentile per-packet one-way delay: 92.678 ms

Loss rate: 0.28%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2018-06-06 02:40:05

End at: 2018-06-06 02:40:35

Local clock offset: -0.022 ms

Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-06 05:21:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 320.45 Mbit/s

95th percentile per-packet one-way delay: 108.455 ms

Loss rate: 0.35%

-- Flow 1:

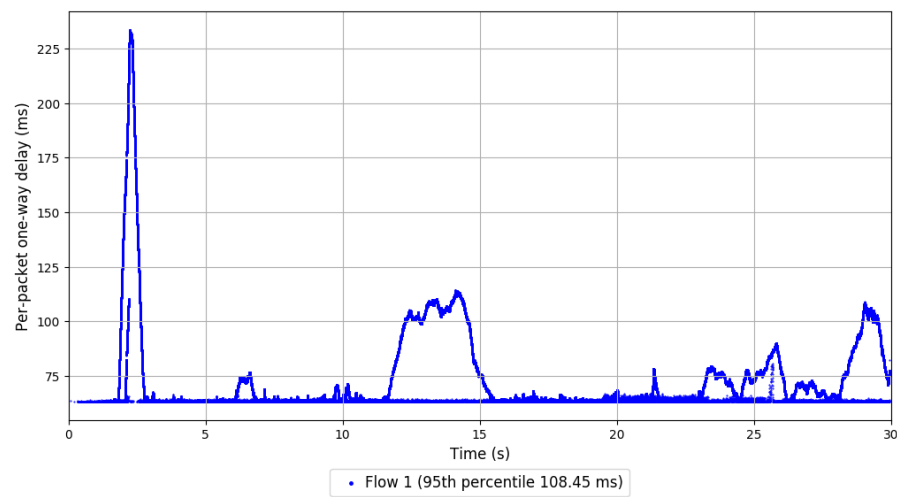
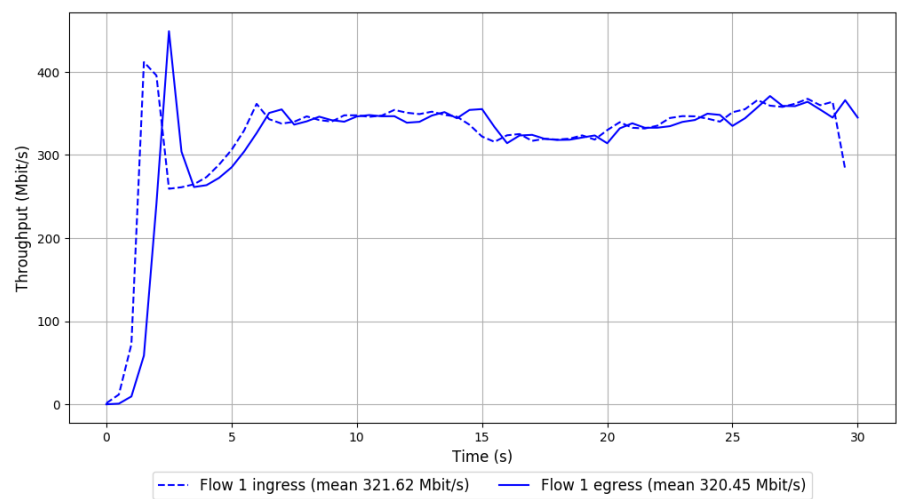
Average throughput: 320.45 Mbit/s

95th percentile per-packet one-way delay: 108.455 ms

Loss rate: 0.35%



Run 5: Report of PCC-Allegro — Data Link



Run 6: Statistics of PCC-Allegro

Start at: 2018-06-06 02:59:54

End at: 2018-06-06 03:00:24

Local clock offset: 0.001 ms

Remote clock offset: -0.487 ms

# Below is generated by plot.py at 2018-06-06 05:22:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 319.18 Mbit/s

95th percentile per-packet one-way delay: 74.068 ms

Loss rate: 0.20%

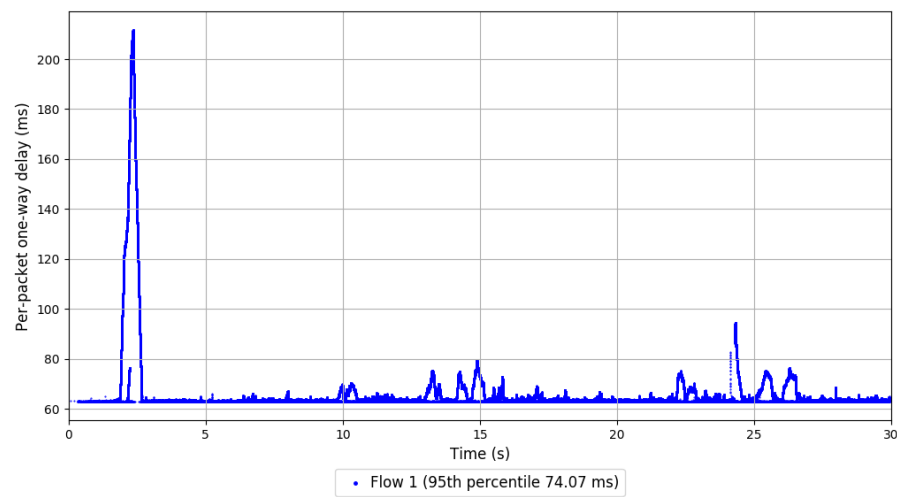
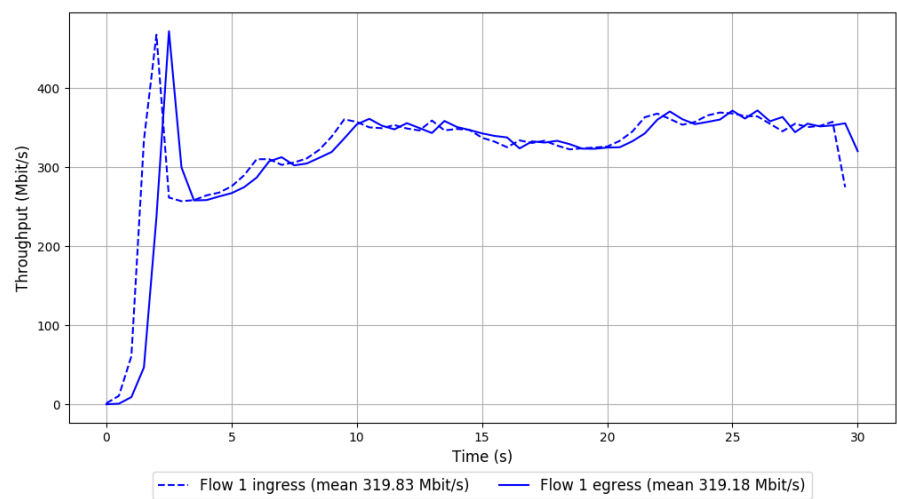
-- Flow 1:

Average throughput: 319.18 Mbit/s

95th percentile per-packet one-way delay: 74.068 ms

Loss rate: 0.20%

Run 6: Report of PCC-Allegro — Data Link

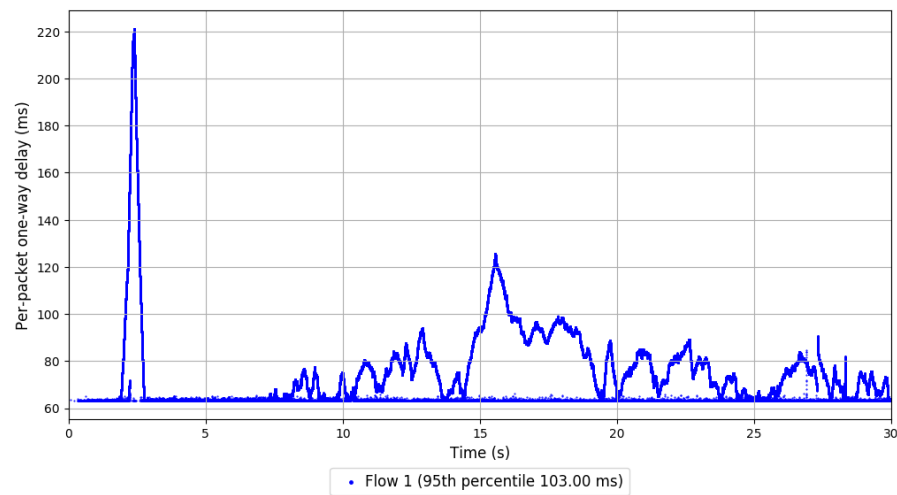
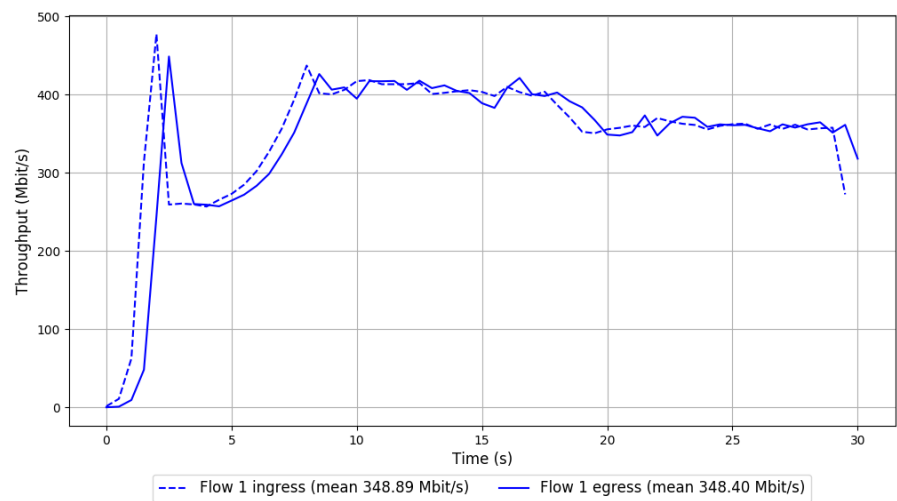


Run 7: Statistics of PCC-Allegro

Start at: 2018-06-06 03:19:51  
End at: 2018-06-06 03:20:21  
Local clock offset: 0.006 ms  
Remote clock offset: -0.294 ms

# Below is generated by plot.py at 2018-06-06 05:23:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 348.40 Mbit/s  
95th percentile per-packet one-way delay: 103.000 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 348.40 Mbit/s  
95th percentile per-packet one-way delay: 103.000 ms  
Loss rate: 0.14%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-06-06 03:39:53

End at: 2018-06-06 03:40:23

Local clock offset: 0.008 ms

Remote clock offset: 0.129 ms

# Below is generated by plot.py at 2018-06-06 05:26:21

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.12 Mbit/s

95th percentile per-packet one-way delay: 99.591 ms

Loss rate: 0.20%

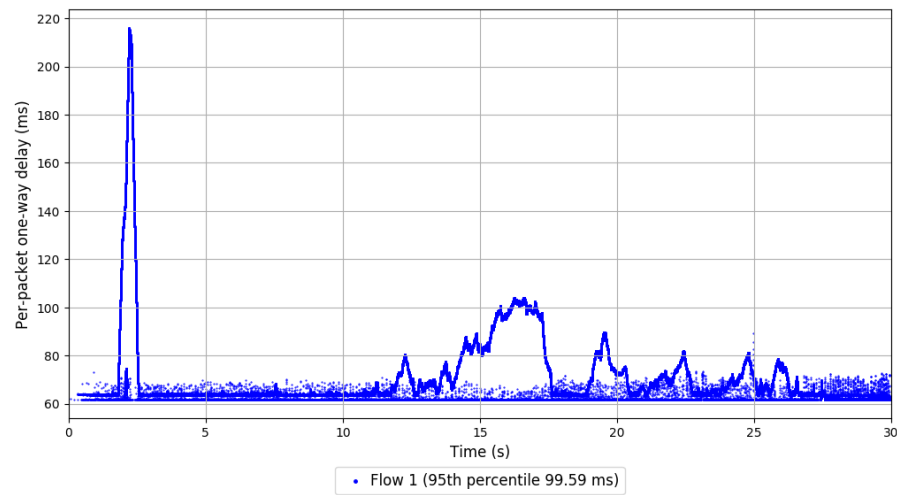
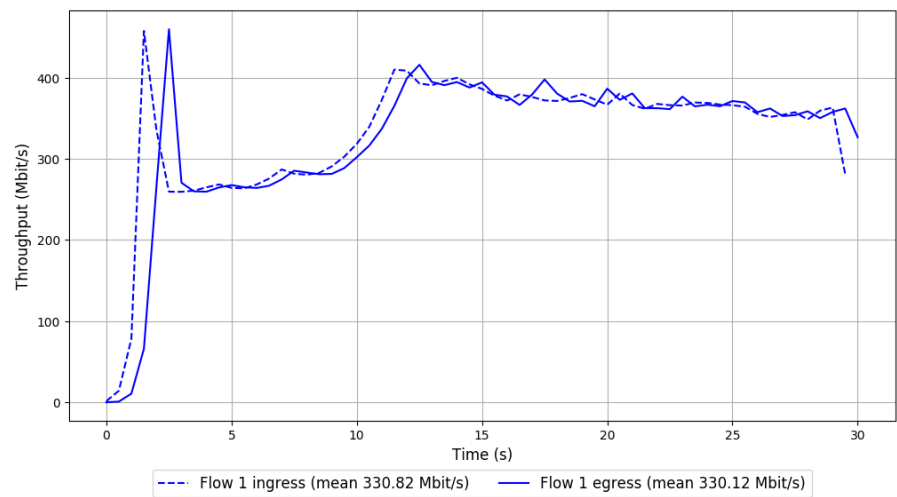
-- Flow 1:

Average throughput: 330.12 Mbit/s

95th percentile per-packet one-way delay: 99.591 ms

Loss rate: 0.20%

Run 8: Report of PCC-Allegro — Data Link



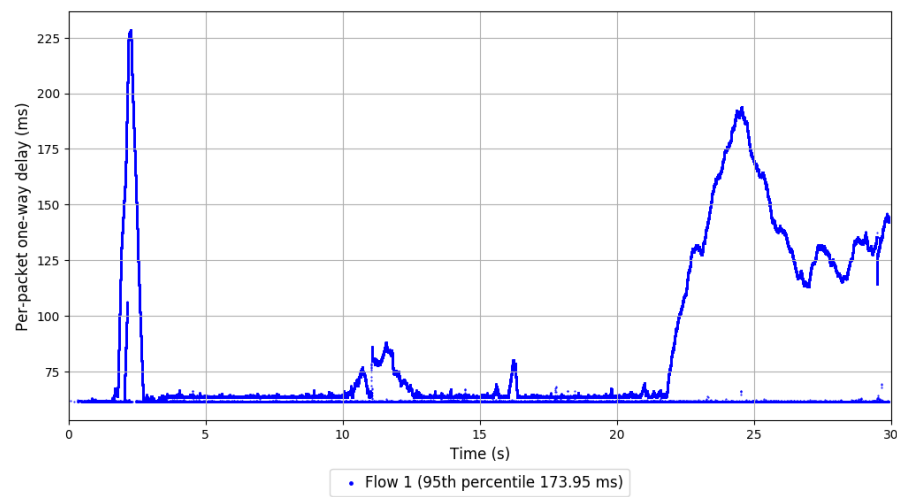
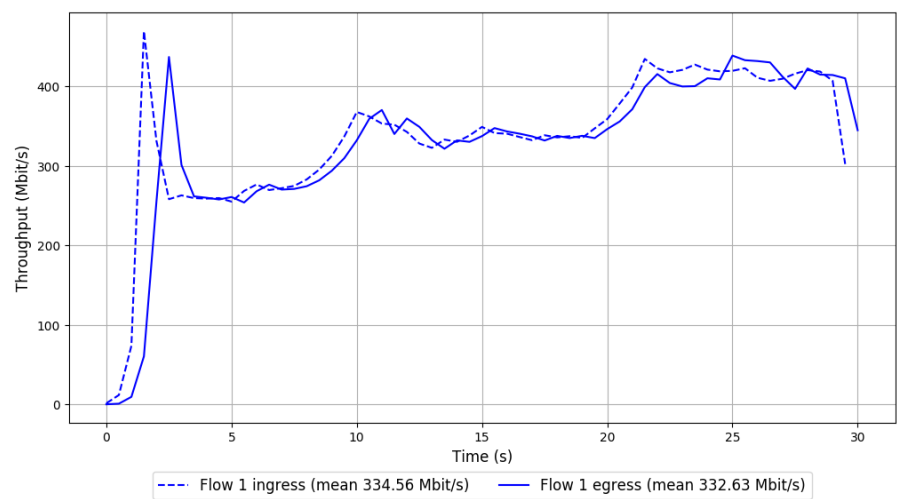
Run 9: Statistics of PCC-Allegro

Start at: 2018-06-06 04:00:07  
End at: 2018-06-06 04:00:37  
Local clock offset: -0.018 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2018-06-06 05:26:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 332.63 Mbit/s  
95th percentile per-packet one-way delay: 173.953 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 332.63 Mbit/s  
95th percentile per-packet one-way delay: 173.953 ms  
Loss rate: 0.57%



Run 9: Report of PCC-Allegro — Data Link

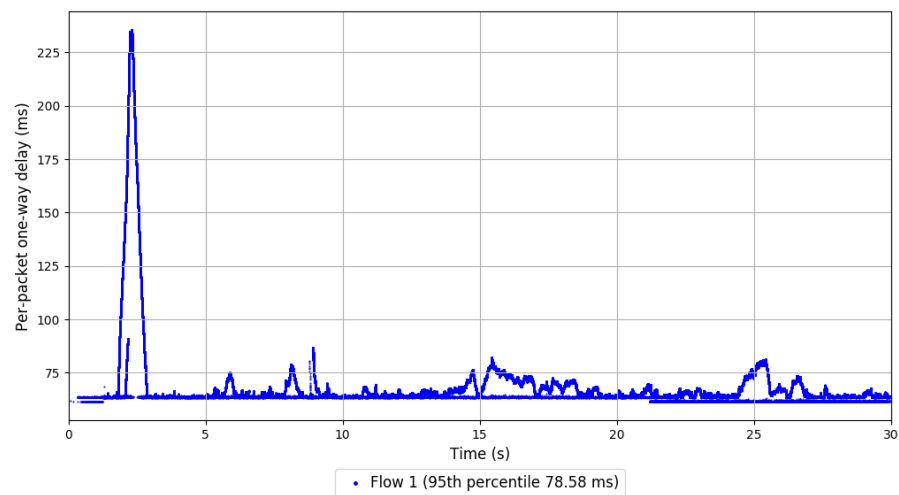
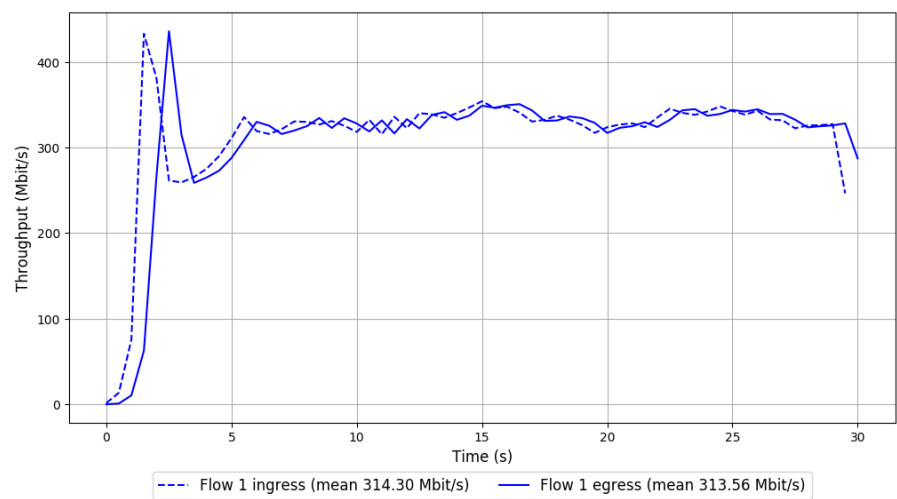


Run 10: Statistics of PCC-Allegro

Start at: 2018-06-06 04:20:09  
End at: 2018-06-06 04:20:39  
Local clock offset: -0.053 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2018-06-06 05:26:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 313.56 Mbit/s  
95th percentile per-packet one-way delay: 78.578 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 313.56 Mbit/s  
95th percentile per-packet one-way delay: 78.578 ms  
Loss rate: 0.23%

Run 10: Report of PCC-Allegro — Data Link

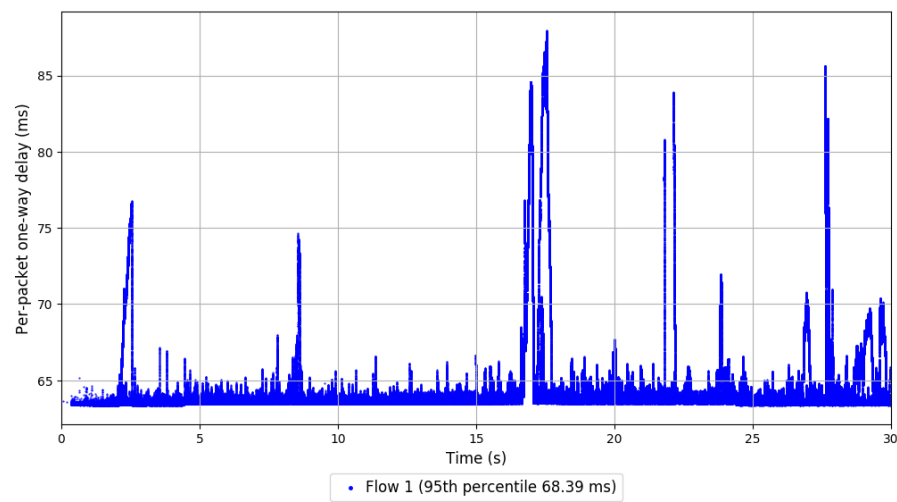
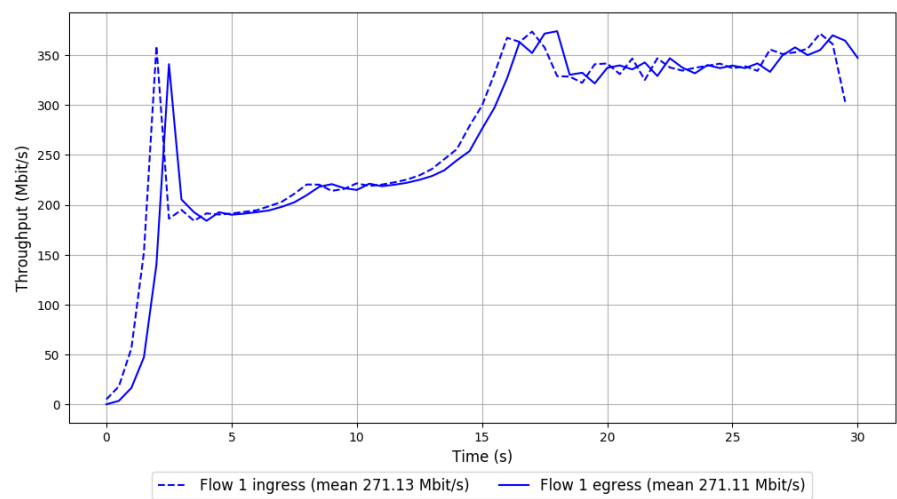


```
Run 1: Statistics of PCC-Expr

Start at: 2018-06-06 01:26:56
End at: 2018-06-06 01:27:26
Local clock offset: 0.044 ms
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2018-06-06 05:29:40
# Datalink statistics
-- Total of 1 flow:
Average throughput: 271.11 Mbit/s
95th percentile per-packet one-way delay: 68.392 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 271.11 Mbit/s
95th percentile per-packet one-way delay: 68.392 ms
Loss rate: 0.01%
```

Run 1: Report of PCC-Expr — Data Link

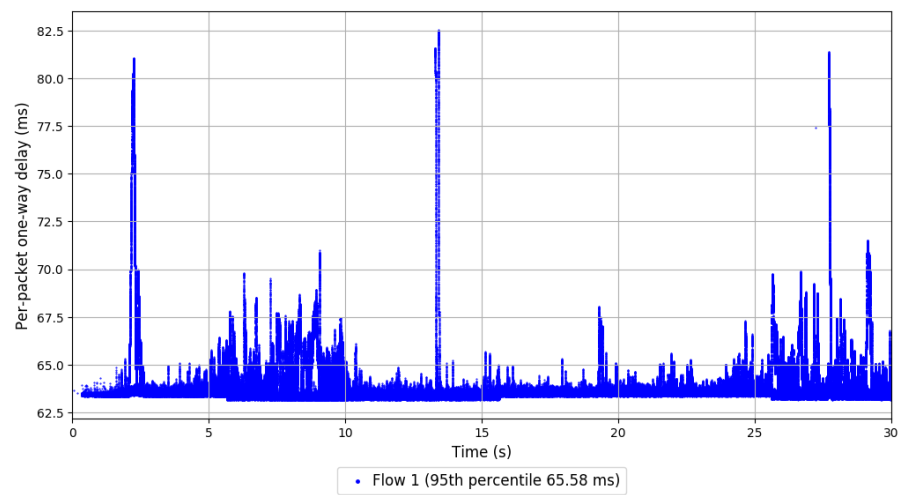
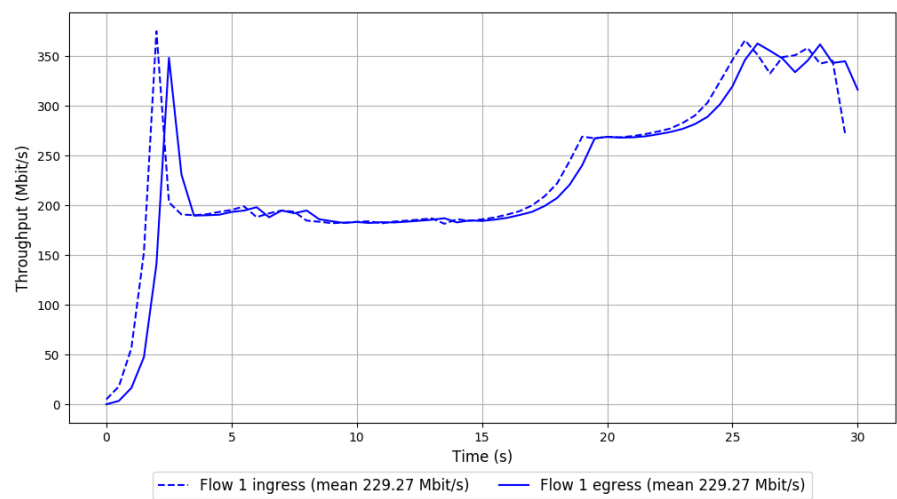


Run 2: Statistics of PCC-Expr

Start at: 2018-06-06 01:47:05  
End at: 2018-06-06 01:47:35  
Local clock offset: -0.048 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-06 05:29:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.27 Mbit/s  
95th percentile per-packet one-way delay: 65.575 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 229.27 Mbit/s  
95th percentile per-packet one-way delay: 65.575 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2018-06-06 02:07:16

End at: 2018-06-06 02:07:46

Local clock offset: -0.07 ms

Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-06 05:29:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 248.80 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.00%

-- Flow 1:

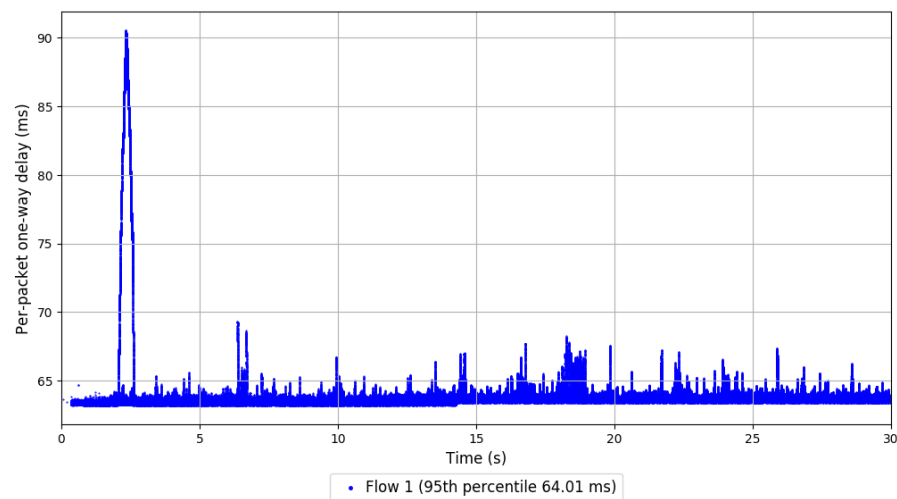
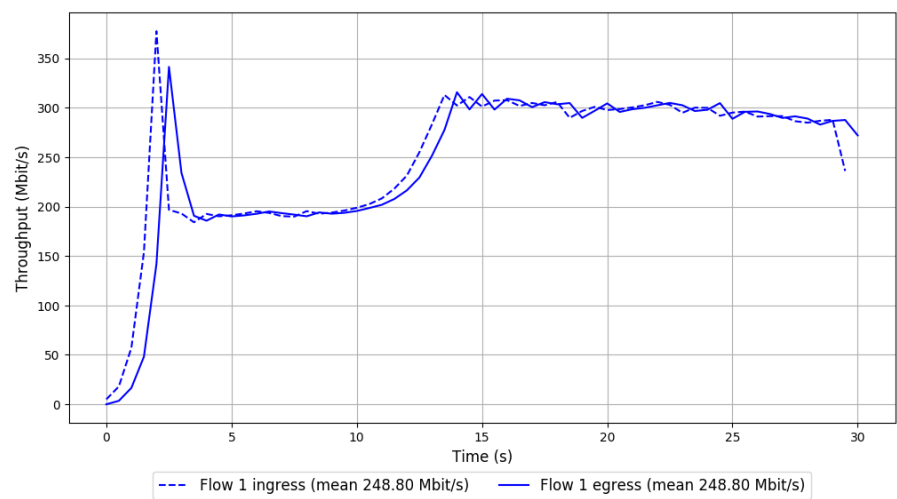
Average throughput: 248.80 Mbit/s

95th percentile per-packet one-way delay: 64.012 ms

Loss rate: 0.00%



Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-06-06 02:27:28

End at: 2018-06-06 02:27:58

Local clock offset: -0.058 ms

Remote clock offset: -0.32 ms

# Below is generated by plot.py at 2018-06-06 05:38:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 439.00 Mbit/s

95th percentile per-packet one-way delay: 311.911 ms

Loss rate: 22.88%

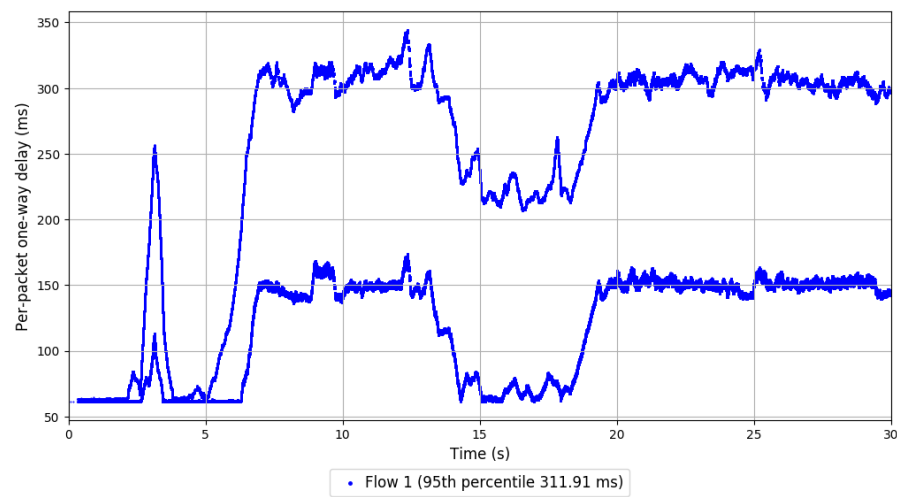
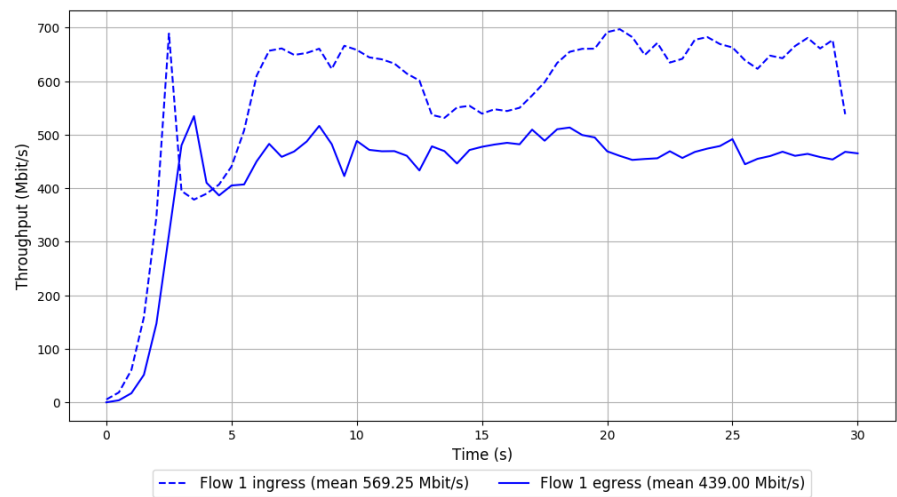
-- Flow 1:

Average throughput: 439.00 Mbit/s

95th percentile per-packet one-way delay: 311.911 ms

Loss rate: 22.88%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-06-06 02:47:33

End at: 2018-06-06 02:48:03

Local clock offset: -0.038 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2018-06-06 05:38:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 242.34 Mbit/s

95th percentile per-packet one-way delay: 65.117 ms

Loss rate: 0.01%

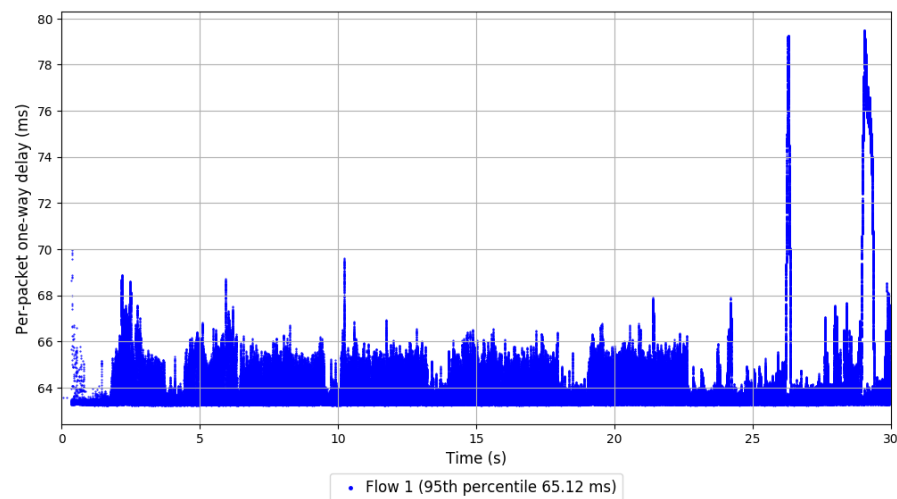
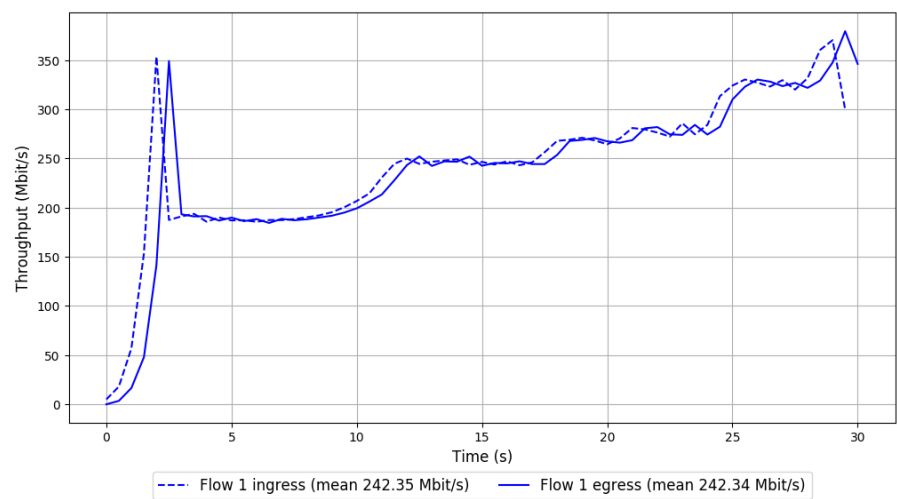
-- Flow 1:

Average throughput: 242.34 Mbit/s

95th percentile per-packet one-way delay: 65.117 ms

Loss rate: 0.01%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-06-06 03:07:19

End at: 2018-06-06 03:07:49

Local clock offset: -0.018 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2018-06-06 05:38:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 287.59 Mbit/s

95th percentile per-packet one-way delay: 68.438 ms

Loss rate: 0.14%

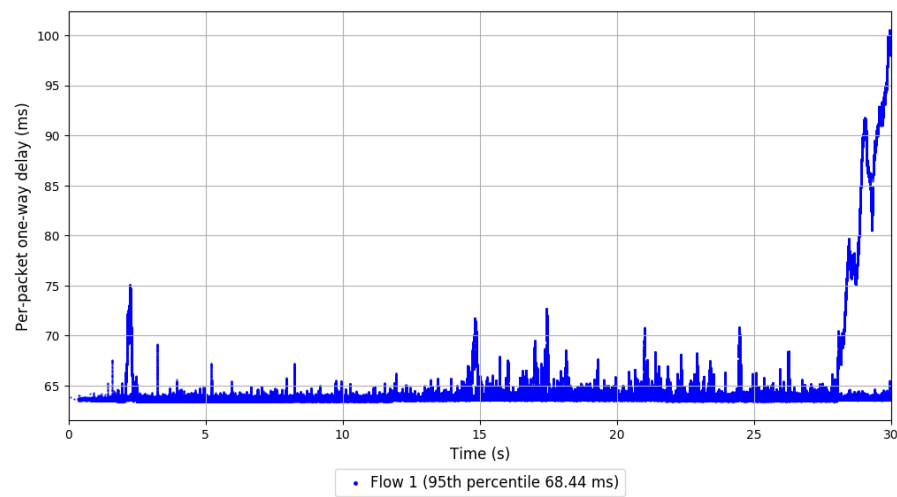
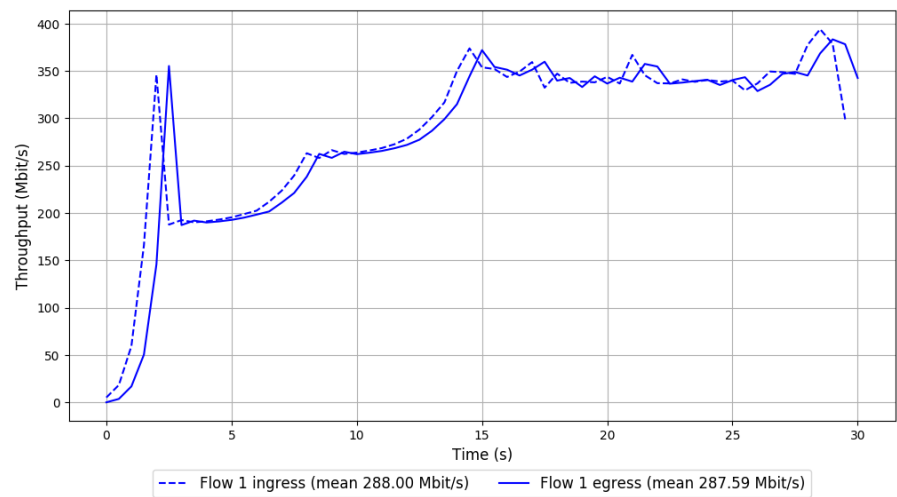
-- Flow 1:

Average throughput: 287.59 Mbit/s

95th percentile per-packet one-way delay: 68.438 ms

Loss rate: 0.14%

Run 6: Report of PCC-Expr — Data Link



Run 7: Statistics of PCC-Expr

Start at: 2018-06-06 03:27:28

End at: 2018-06-06 03:27:58

Local clock offset: -0.004 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2018-06-06 05:38:36

# Datalink statistics

-- Total of 1 flow:

Average throughput: 181.62 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 0.00%

-- Flow 1:

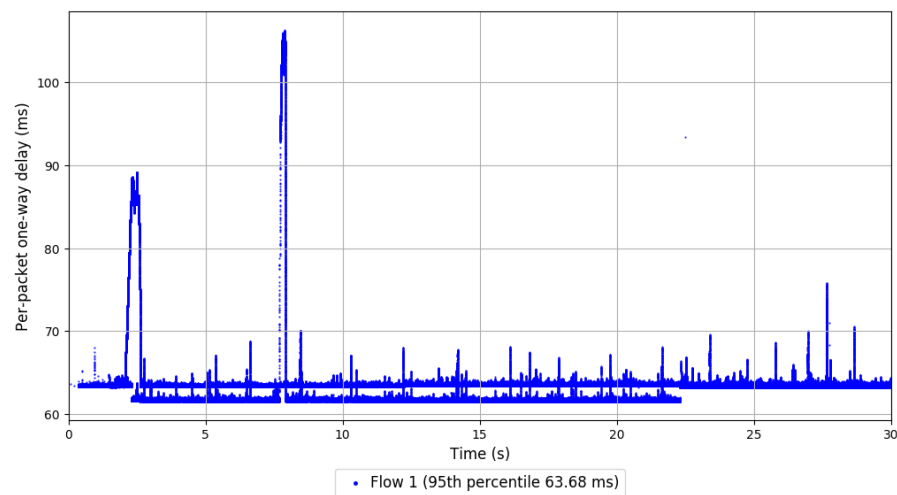
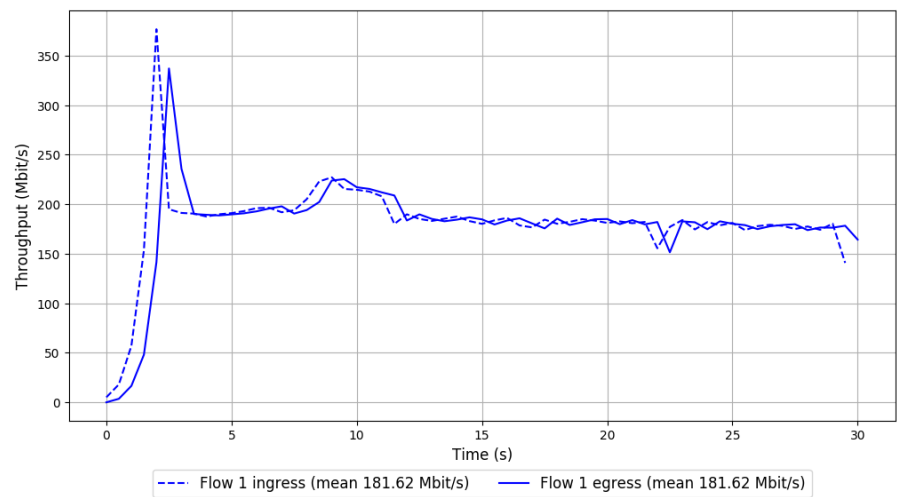
Average throughput: 181.62 Mbit/s

95th percentile per-packet one-way delay: 63.684 ms

Loss rate: 0.00%



Run 7: Report of PCC-Expr — Data Link

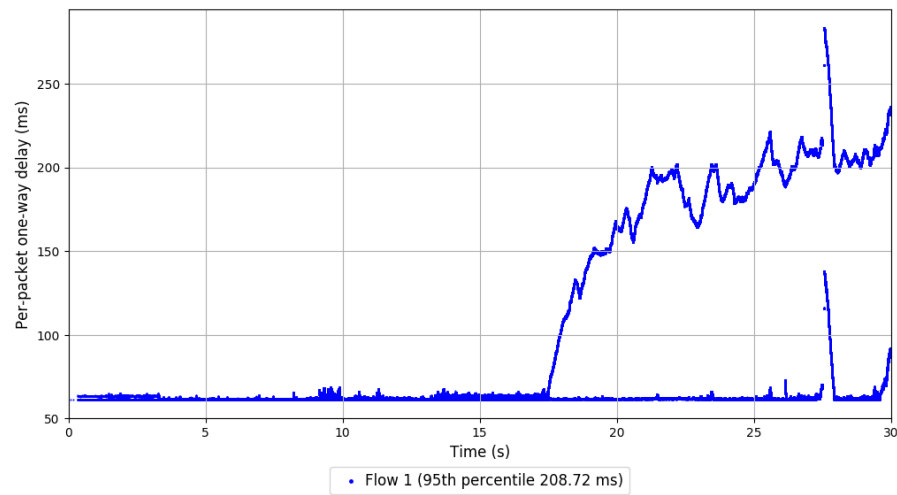
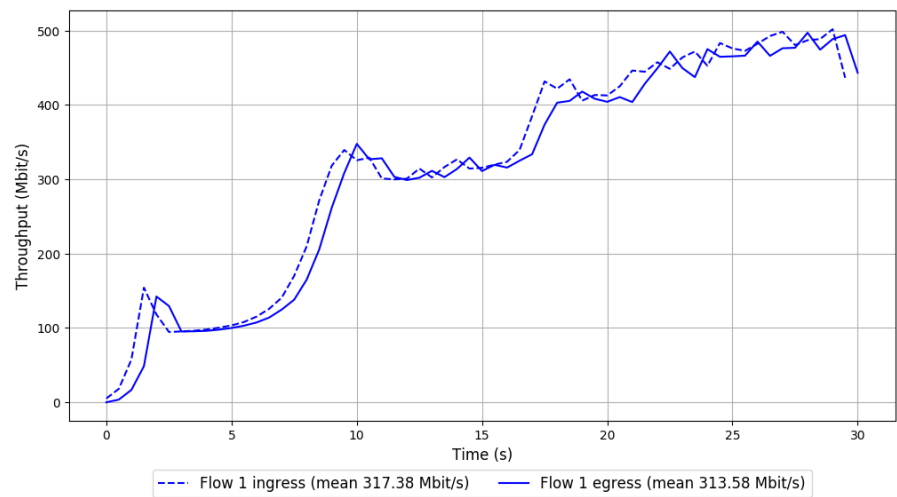


Run 8: Statistics of PCC-Expr

Start at: 2018-06-06 03:47:37  
End at: 2018-06-06 03:48:07  
Local clock offset: -0.011 ms  
Remote clock offset: -0.218 ms

# Below is generated by plot.py at 2018-06-06 05:38:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 313.58 Mbit/s  
95th percentile per-packet one-way delay: 208.724 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 313.58 Mbit/s  
95th percentile per-packet one-way delay: 208.724 ms  
Loss rate: 1.19%

Run 8: Report of PCC-Expr — Data Link

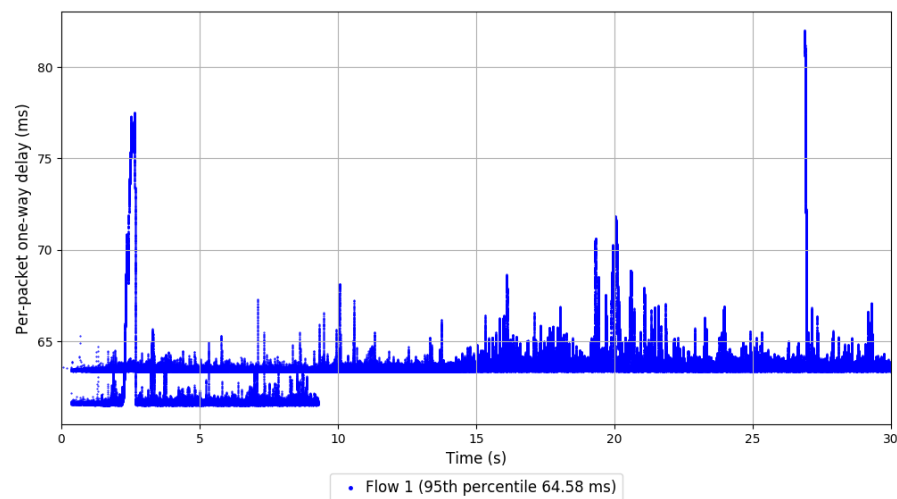
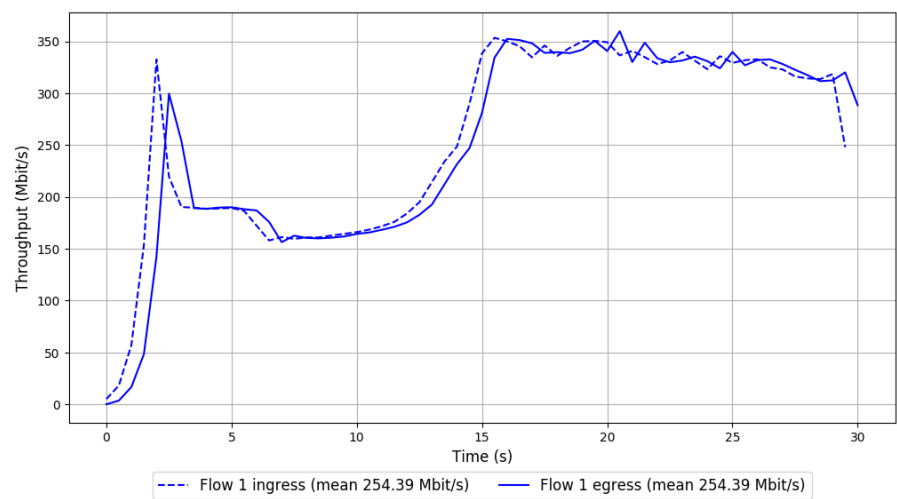


Run 9: Statistics of PCC-Expr

Start at: 2018-06-06 04:07:41  
End at: 2018-06-06 04:08:11  
Local clock offset: -0.051 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2018-06-06 05:38:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 254.39 Mbit/s  
95th percentile per-packet one-way delay: 64.584 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 254.39 Mbit/s  
95th percentile per-packet one-way delay: 64.584 ms  
Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-06-06 04:27:50

End at: 2018-06-06 04:28:20

Local clock offset: -0.017 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 334.95 Mbit/s

95th percentile per-packet one-way delay: 237.918 ms

Loss rate: 2.42%

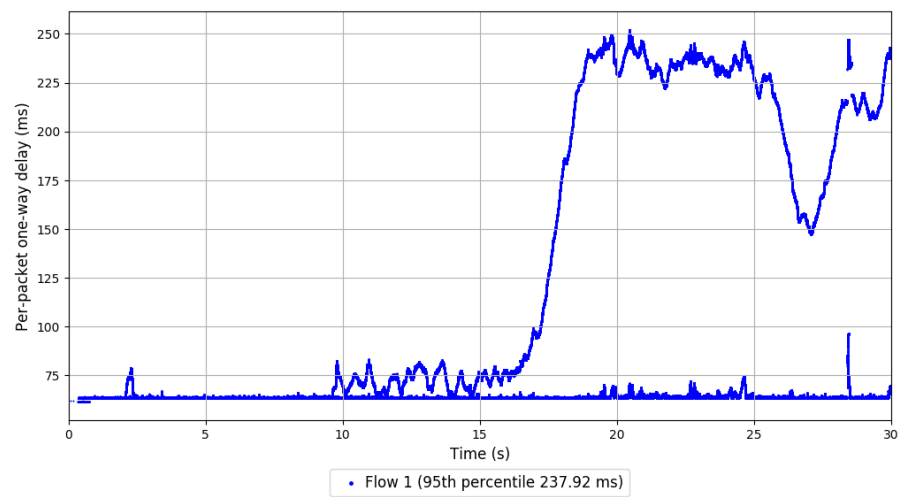
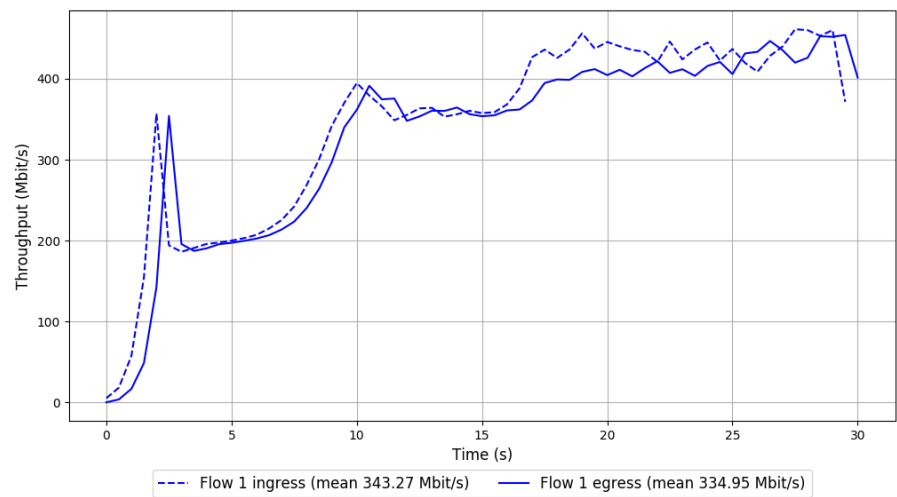
-- Flow 1:

Average throughput: 334.95 Mbit/s

95th percentile per-packet one-way delay: 237.918 ms

Loss rate: 2.42%

Run 10: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2018-06-06 01:16:57

End at: 2018-06-06 01:17:27

Local clock offset: 0.043 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 63.715 ms

Loss rate: 0.00%

-- Flow 1:

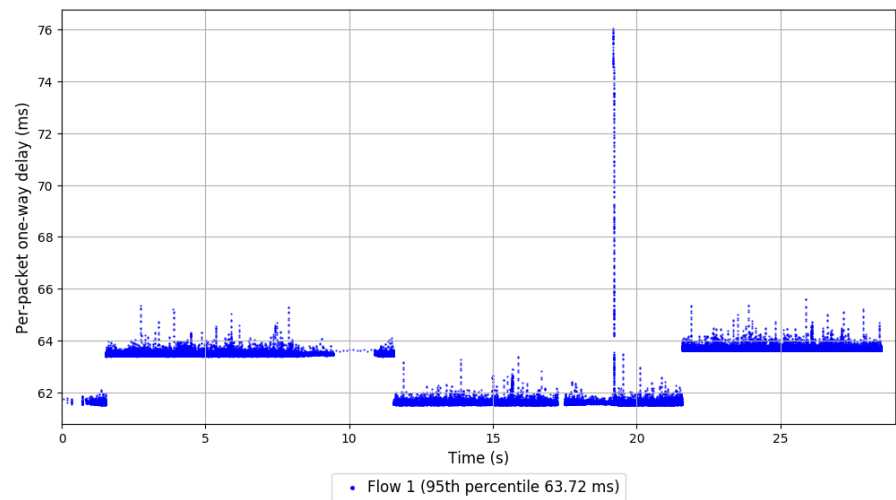
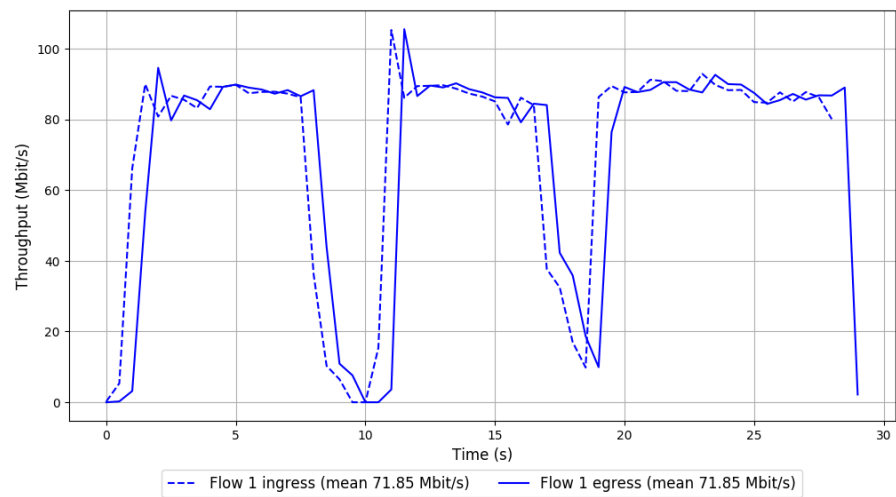
Average throughput: 71.85 Mbit/s

95th percentile per-packet one-way delay: 63.715 ms

Loss rate: 0.00%



Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

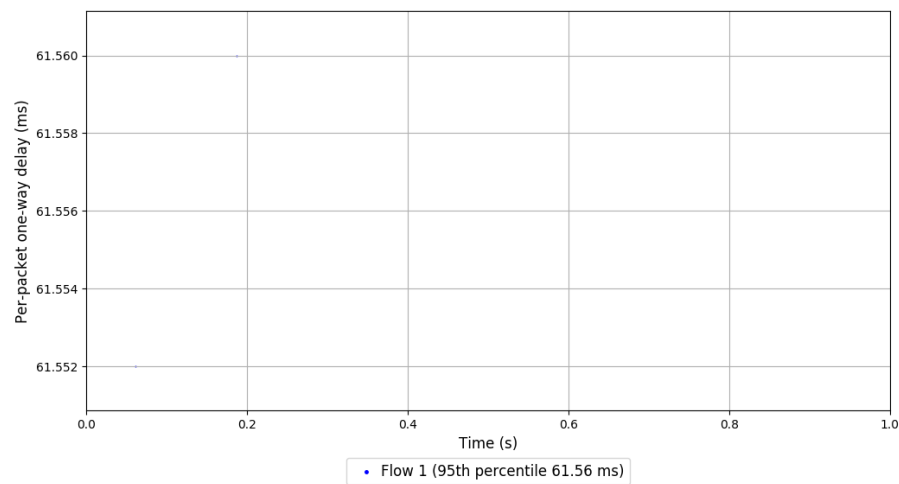
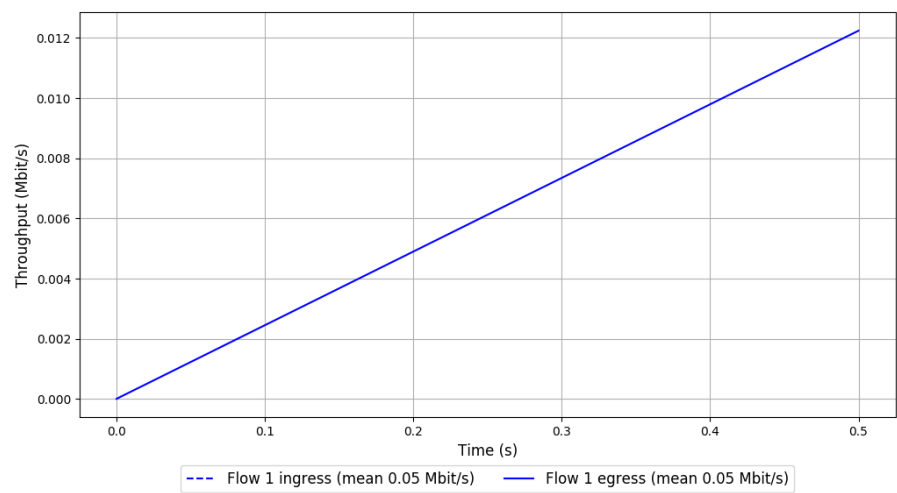
Start at: 2018-06-06 01:37:08

End at: 2018-06-06 01:37:38

Local clock offset: -0.016 ms

Remote clock offset: -0.044 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2018-06-06 01:57:15

End at: 2018-06-06 01:57:45

Local clock offset: -0.021 ms

Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.59 Mbit/s

95th percentile per-packet one-way delay: 63.320 ms

Loss rate: 0.00%

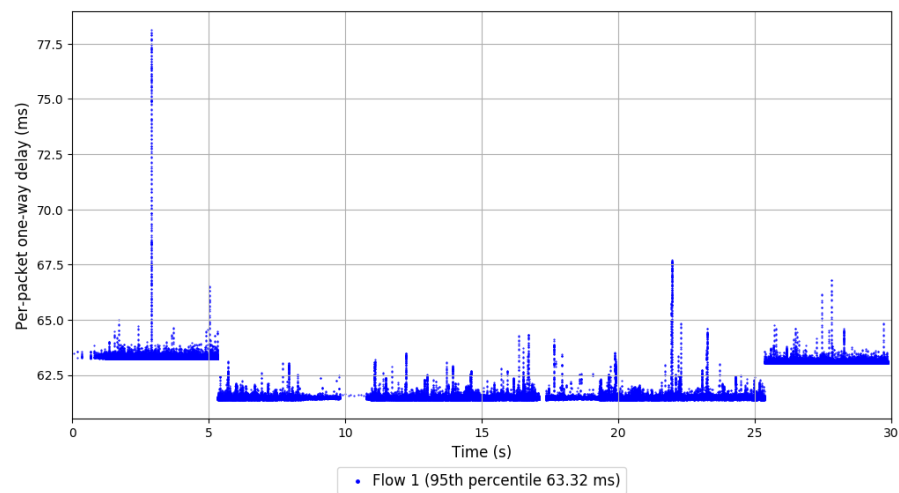
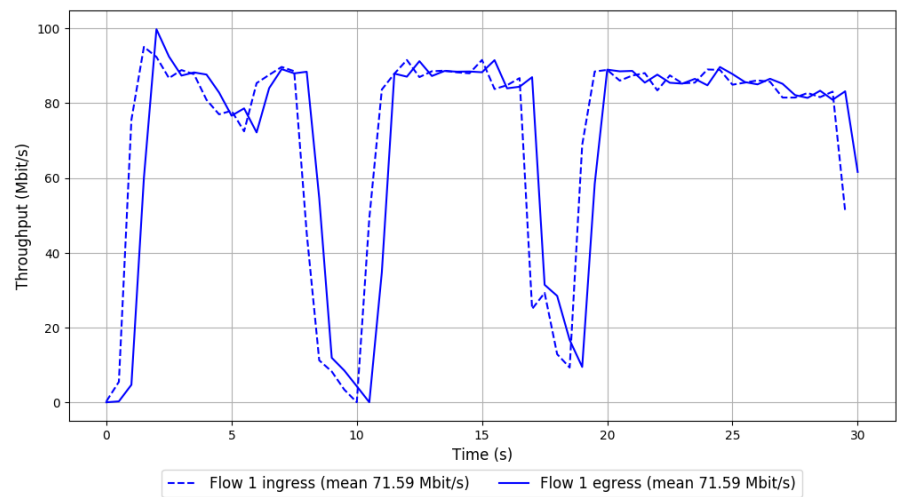
-- Flow 1:

Average throughput: 71.59 Mbit/s

95th percentile per-packet one-way delay: 63.320 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-06-06 02:17:28

End at: 2018-06-06 02:17:58

Local clock offset: -0.027 ms

Remote clock offset: -0.279 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 63.277 ms

Loss rate: 0.00%

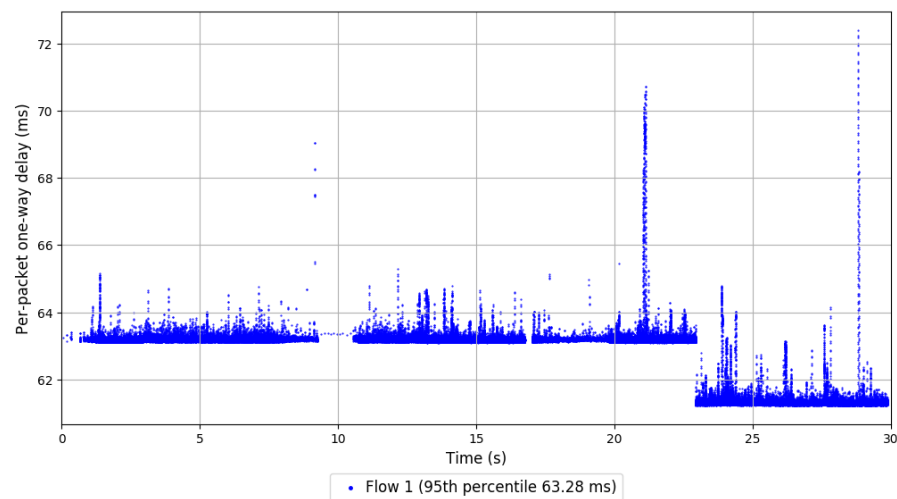
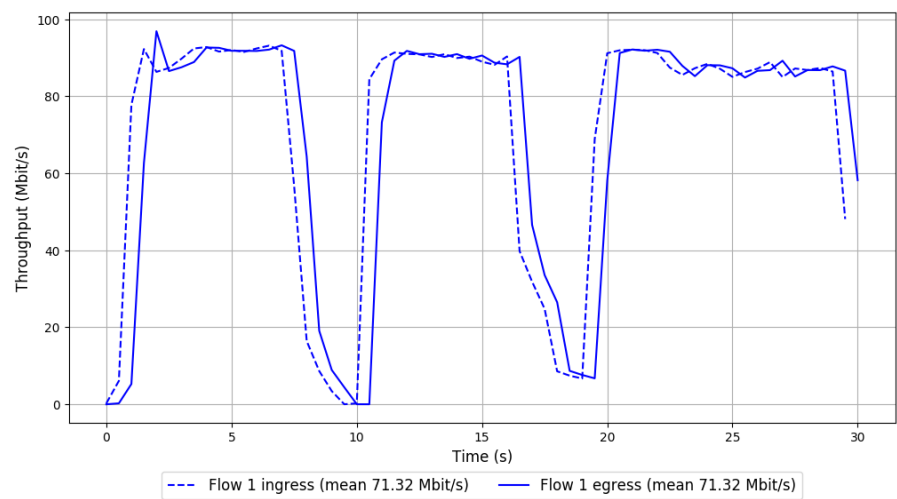
-- Flow 1:

Average throughput: 71.32 Mbit/s

95th percentile per-packet one-way delay: 63.277 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-06-06 02:37:49

End at: 2018-06-06 02:38:19

Local clock offset: -0.024 ms

Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 63.351 ms

Loss rate: 0.00%

-- Flow 1:

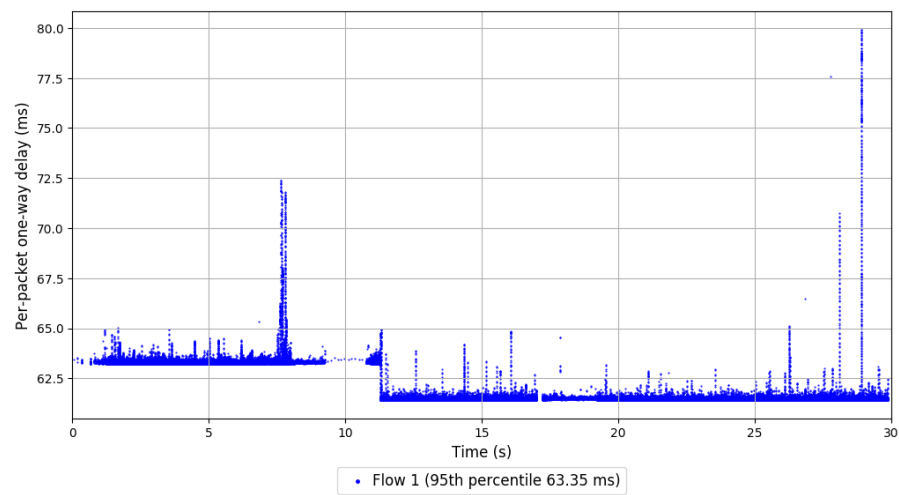
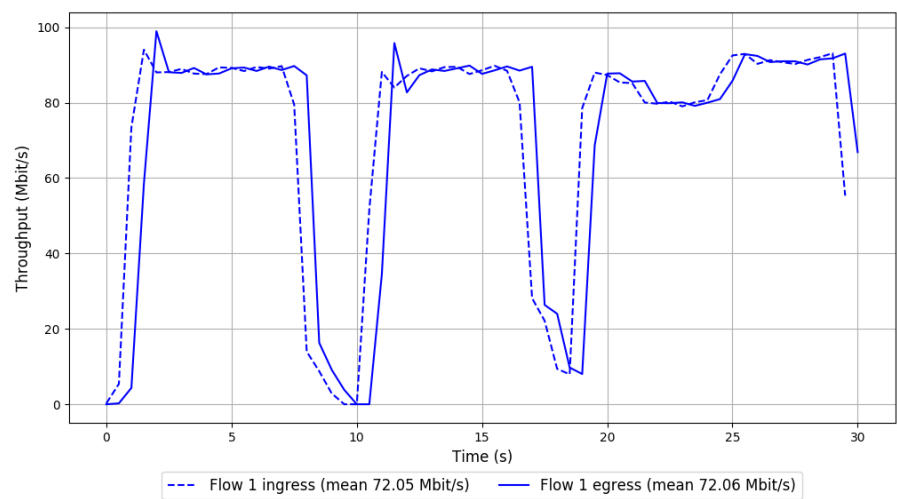
Average throughput: 72.06 Mbit/s

95th percentile per-packet one-way delay: 63.351 ms

Loss rate: 0.00%



Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

Start at: 2018-06-06 02:57:39

End at: 2018-06-06 02:58:09

Local clock offset: 0.001 ms

Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.37 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.00%

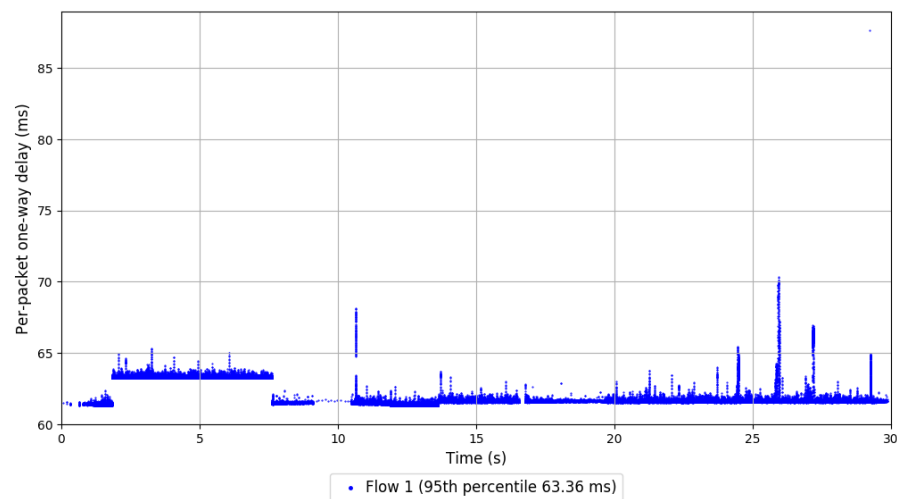
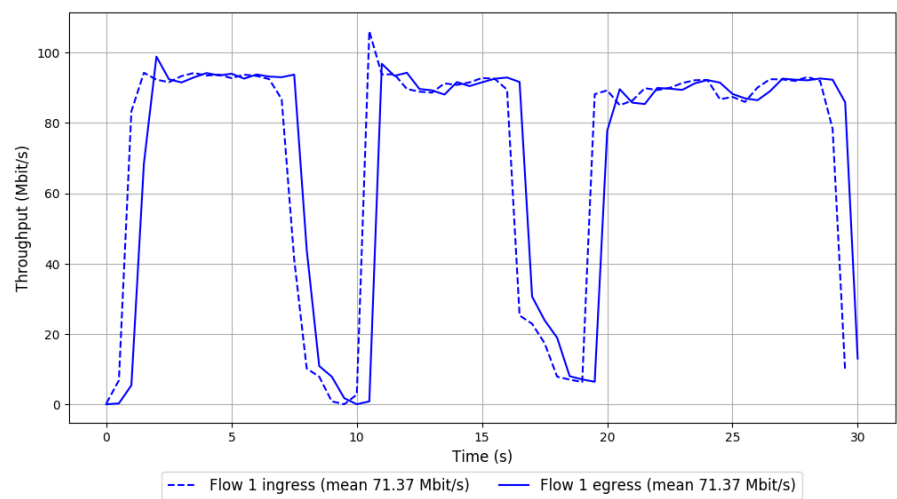
-- Flow 1:

Average throughput: 71.37 Mbit/s

95th percentile per-packet one-way delay: 63.359 ms

Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-06-06 03:17:36

End at: 2018-06-06 03:18:06

Local clock offset: -0.016 ms

Remote clock offset: 0.47 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.00%

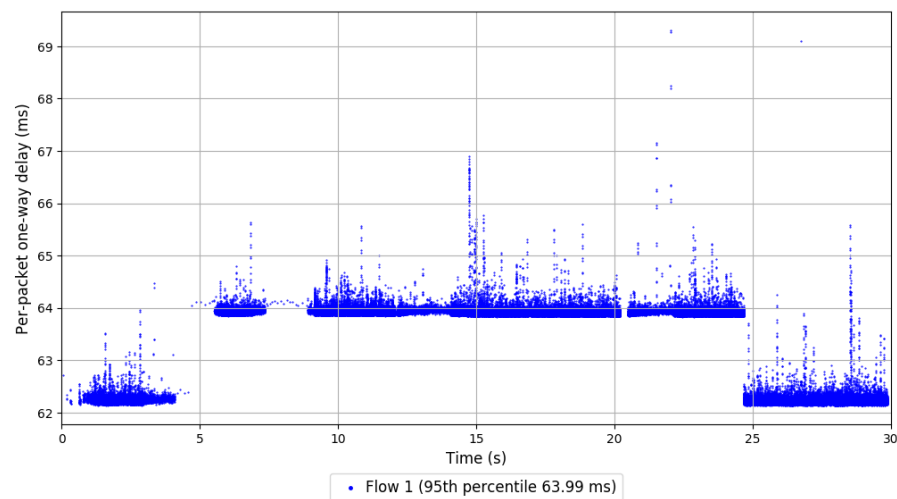
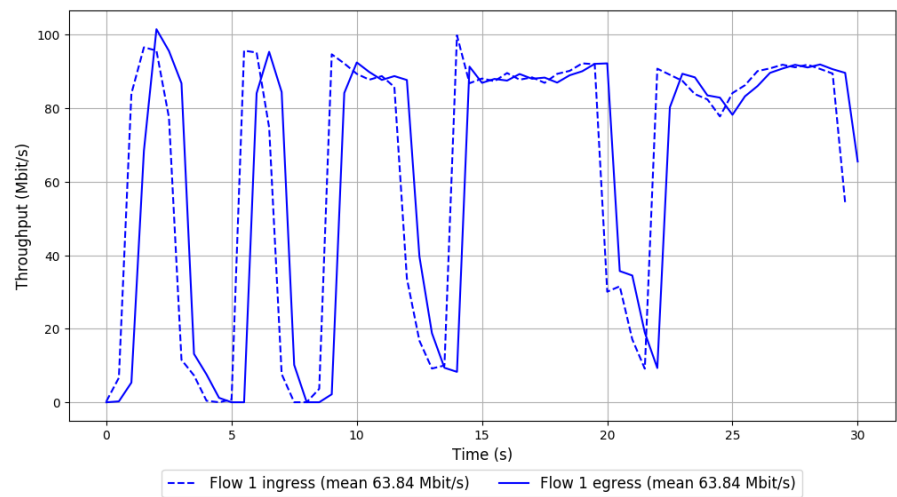
-- Flow 1:

Average throughput: 63.84 Mbit/s

95th percentile per-packet one-way delay: 63.987 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-06-06 03:37:38

End at: 2018-06-06 03:38:08

Local clock offset: -0.0 ms

Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

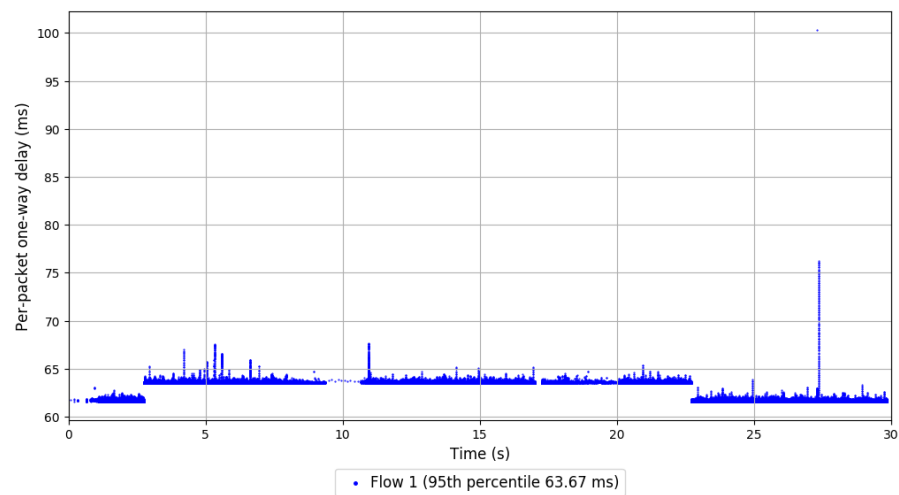
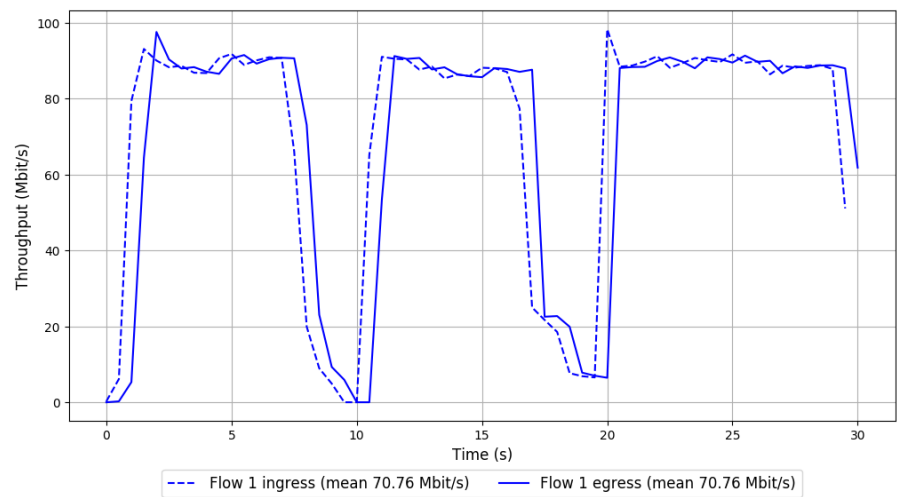
-- Flow 1:

Average throughput: 70.76 Mbit/s

95th percentile per-packet one-way delay: 63.671 ms

Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-06-06 03:57:52

End at: 2018-06-06 03:58:22

Local clock offset: -0.08 ms

Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%

-- Flow 1:

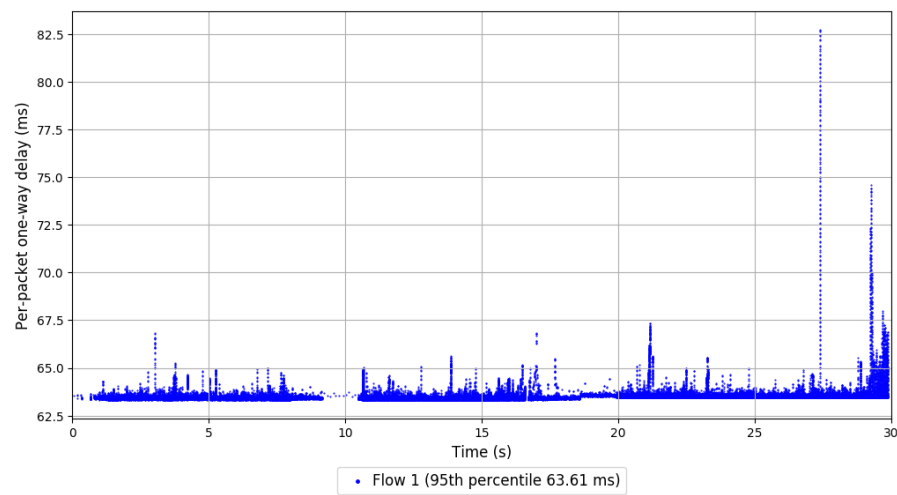
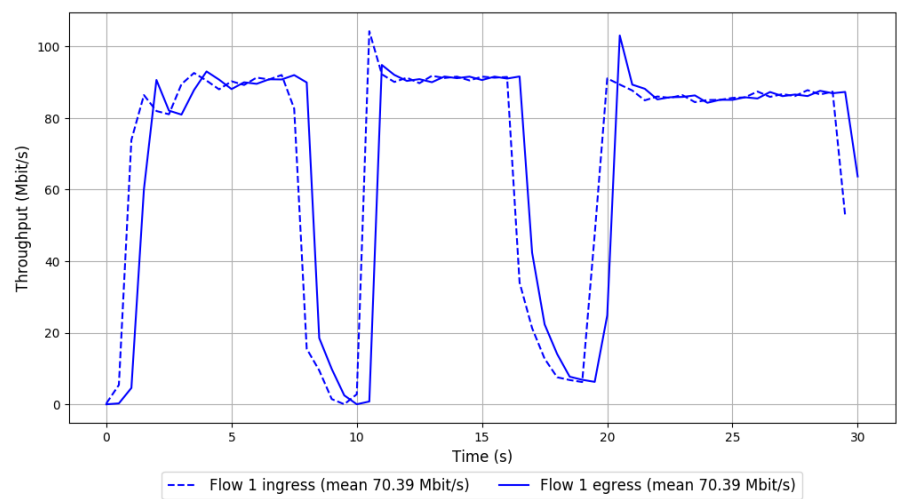
Average throughput: 70.39 Mbit/s

95th percentile per-packet one-way delay: 63.610 ms

Loss rate: 0.00%



Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-06-06 04:17:54

End at: 2018-06-06 04:18:24

Local clock offset: -0.042 ms

Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 63.377 ms

Loss rate: 0.00%

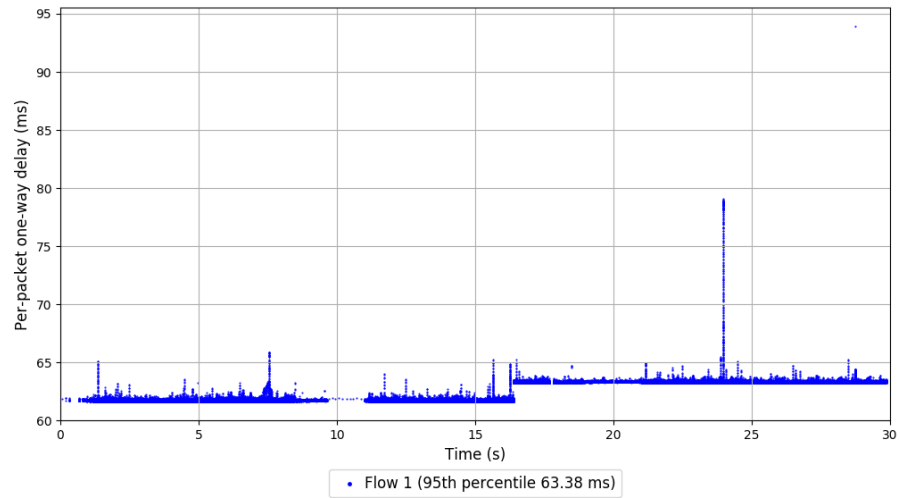
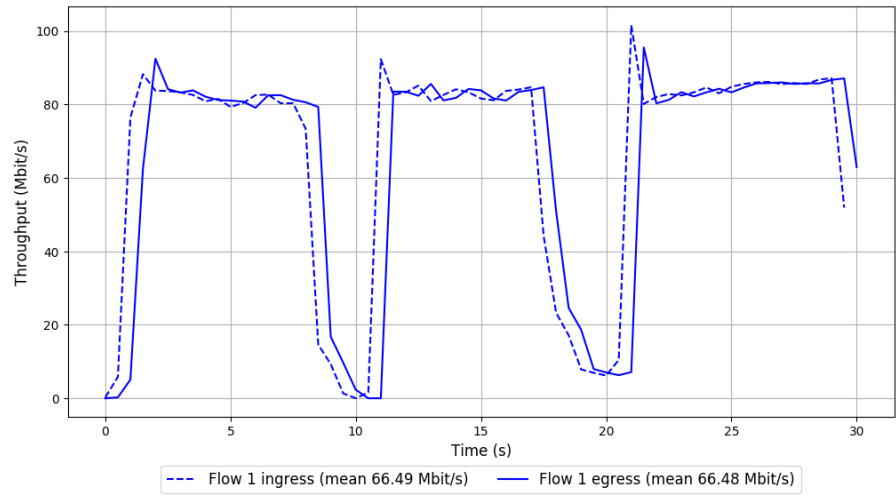
-- Flow 1:

Average throughput: 66.48 Mbit/s

95th percentile per-packet one-way delay: 63.377 ms

Loss rate: 0.00%

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

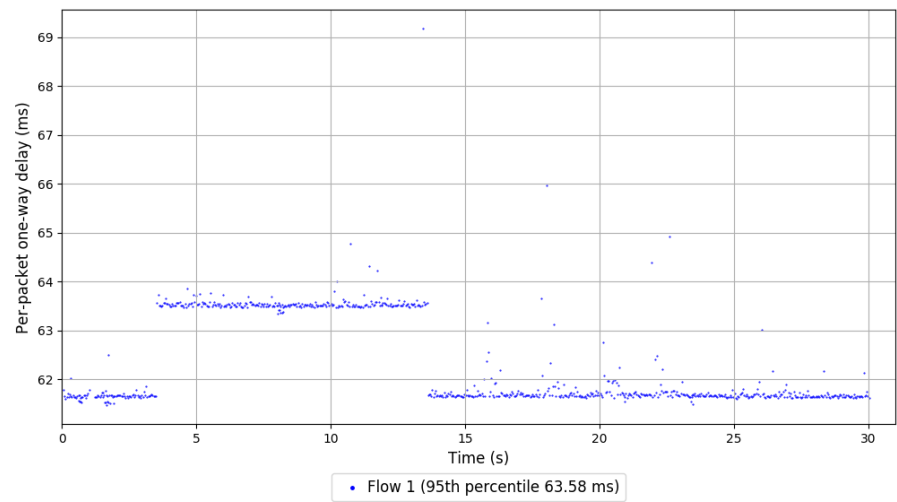
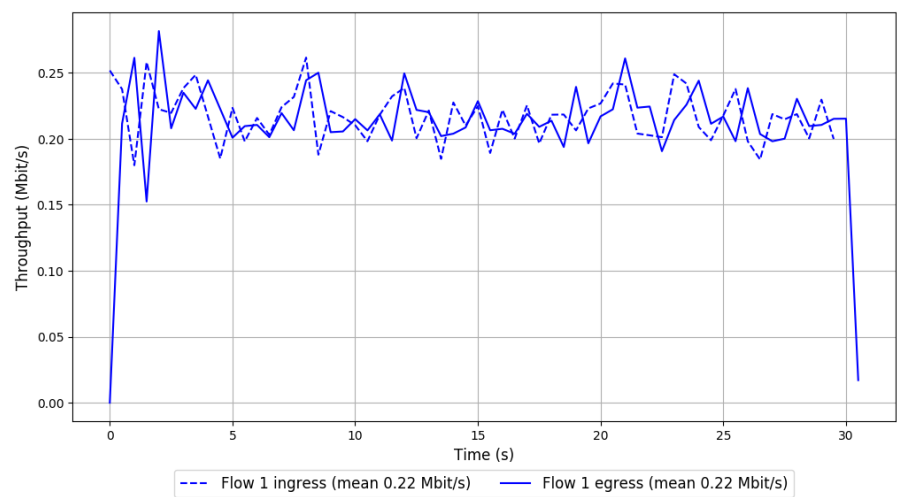


Run 1: Statistics of SCReAM

Start at: 2018-06-06 01:18:07  
End at: 2018-06-06 01:18:37  
Local clock offset: 0.04 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.578 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.578 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-06-06 01:38:14

End at: 2018-06-06 01:38:44

Local clock offset: -0.062 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.736 ms

Loss rate: 0.00%

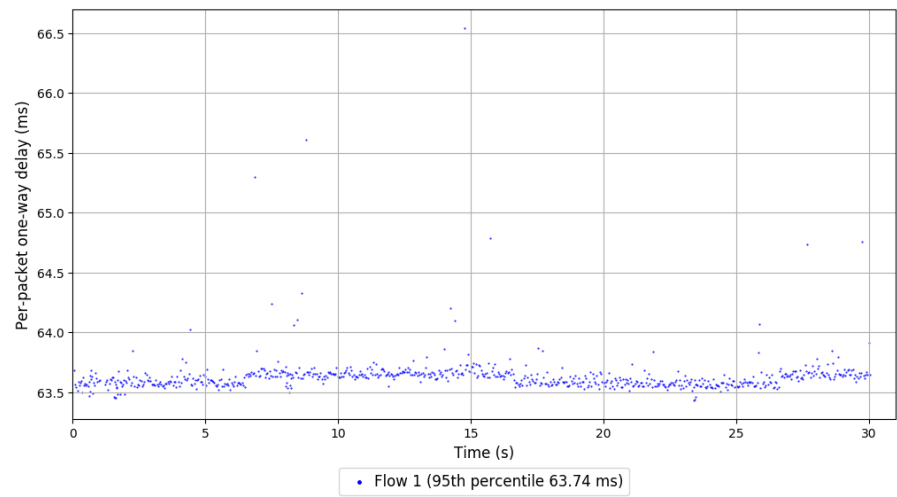
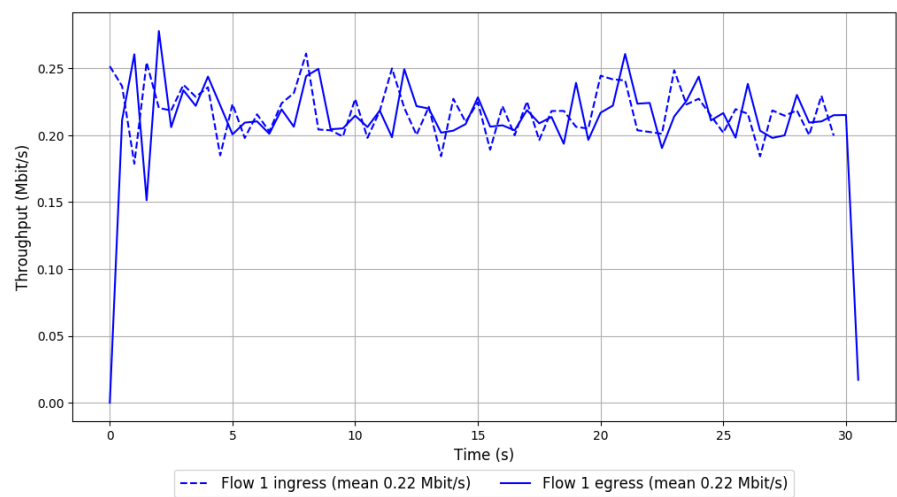
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.736 ms

Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



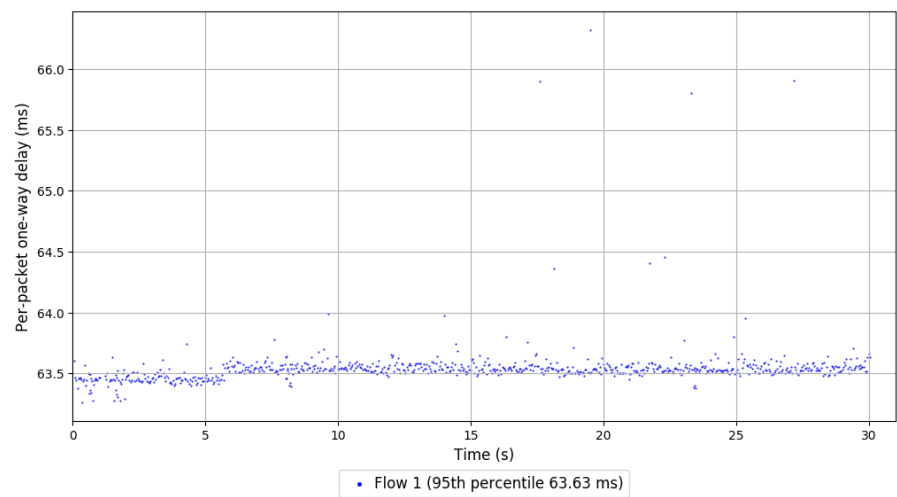
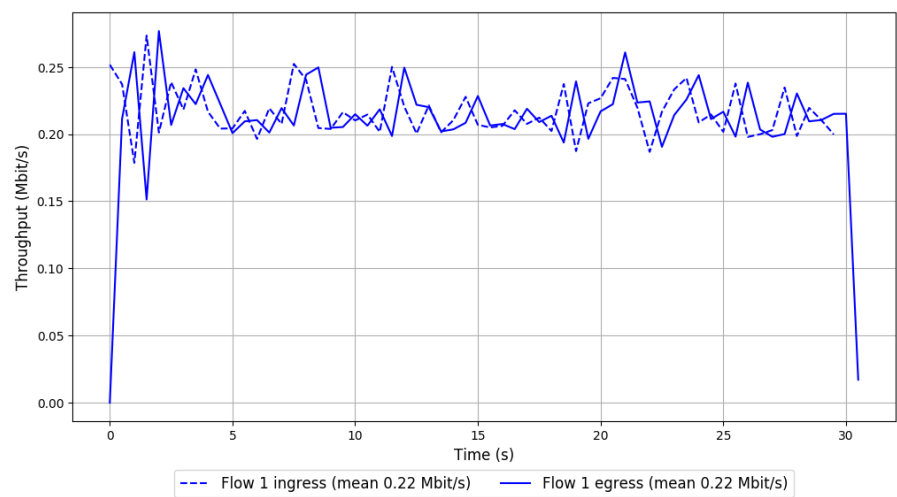
Run 3: Statistics of SCReAM

Start at: 2018-06-06 01:58:25  
End at: 2018-06-06 01:58:55  
Local clock offset: -0.069 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.635 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.635 ms  
Loss rate: 0.00%



Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-06-06 02:18:37

End at: 2018-06-06 02:19:07

Local clock offset: -0.015 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.00%

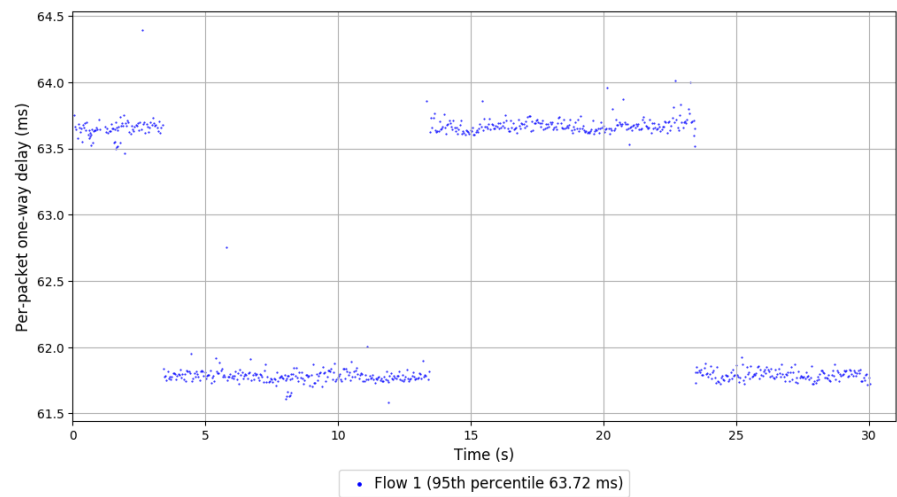
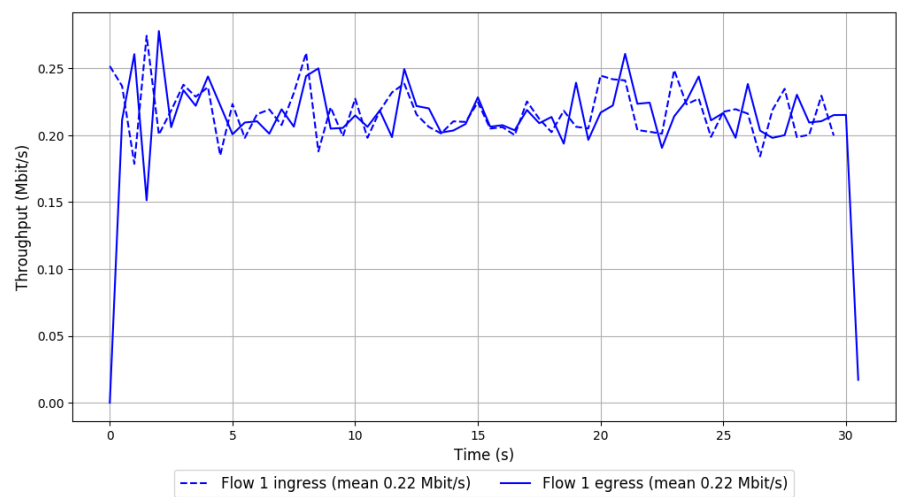
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.717 ms

Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2018-06-06 02:38:59

End at: 2018-06-06 02:39:29

Local clock offset: -0.032 ms

Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.934 ms

Loss rate: 0.00%

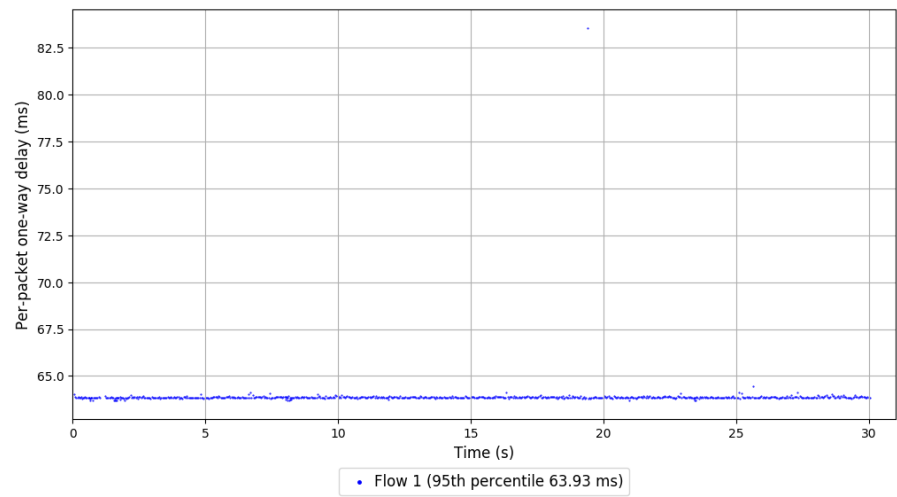
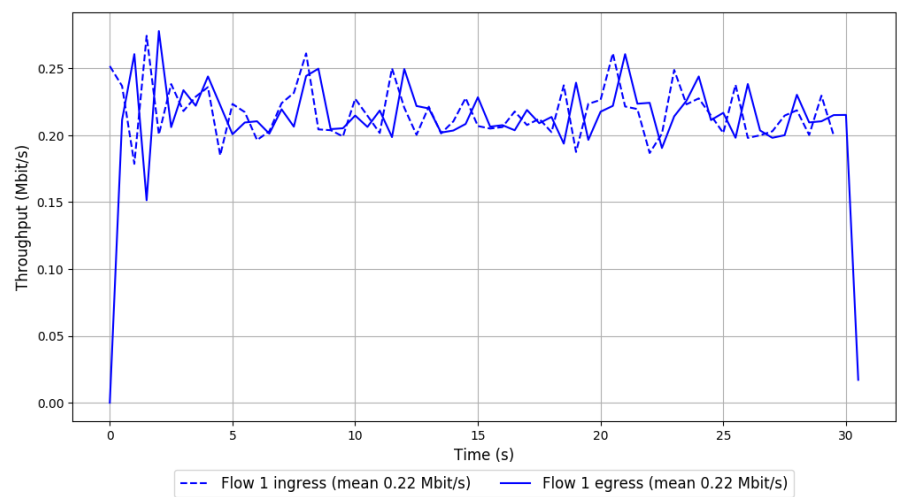
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.934 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-06-06 02:58:48

End at: 2018-06-06 02:59:18

Local clock offset: -0.028 ms

Remote clock offset: 0.179 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 0.00%

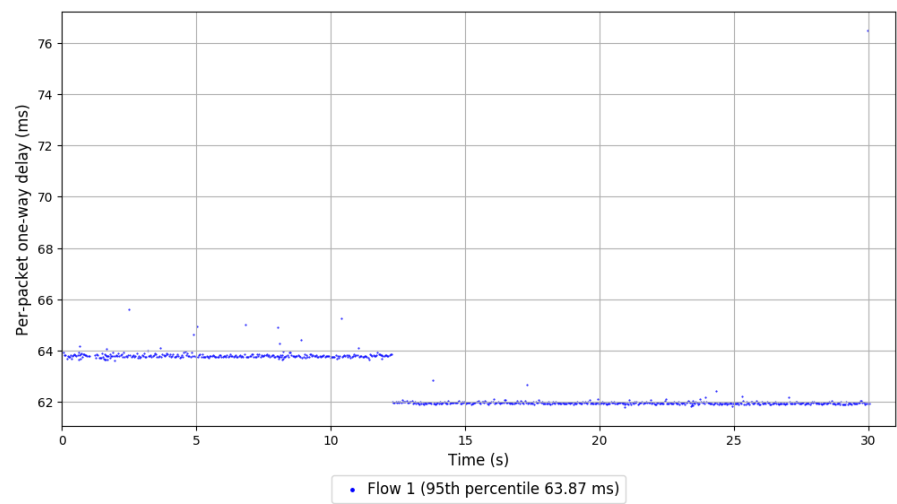
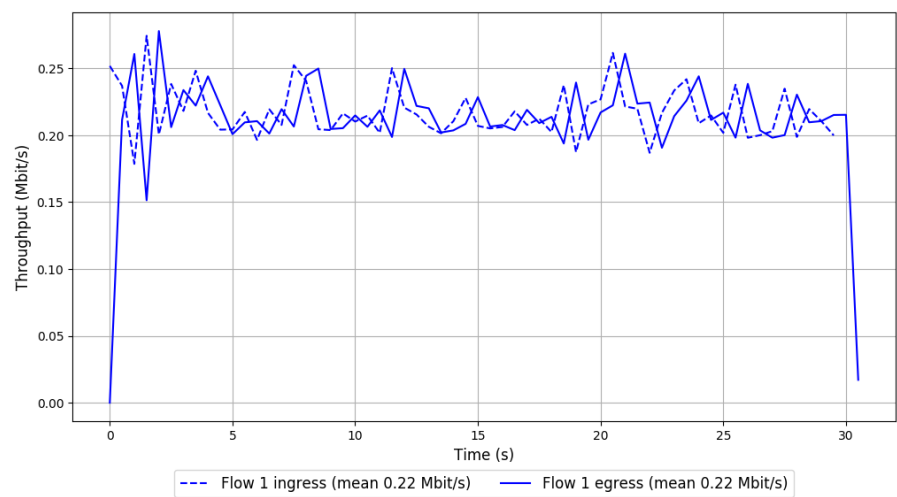
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.865 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



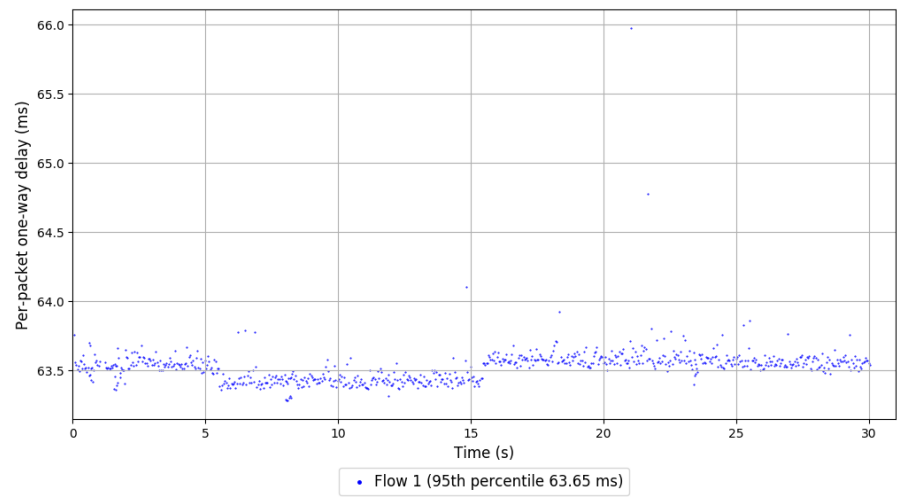
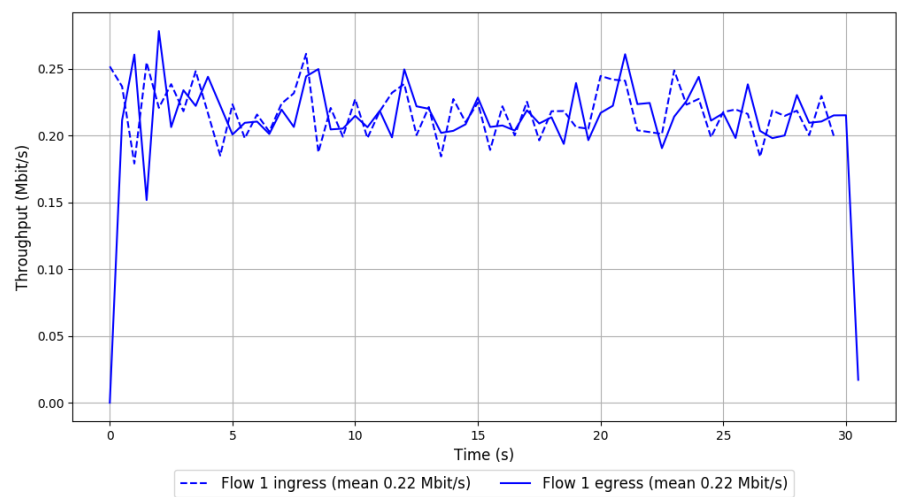
Run 7: Statistics of SCReAM

Start at: 2018-06-06 03:18:45  
End at: 2018-06-06 03:19:15  
Local clock offset: -0.035 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.654 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.654 ms  
Loss rate: 0.00%



Run 7: Report of SReAM — Data Link

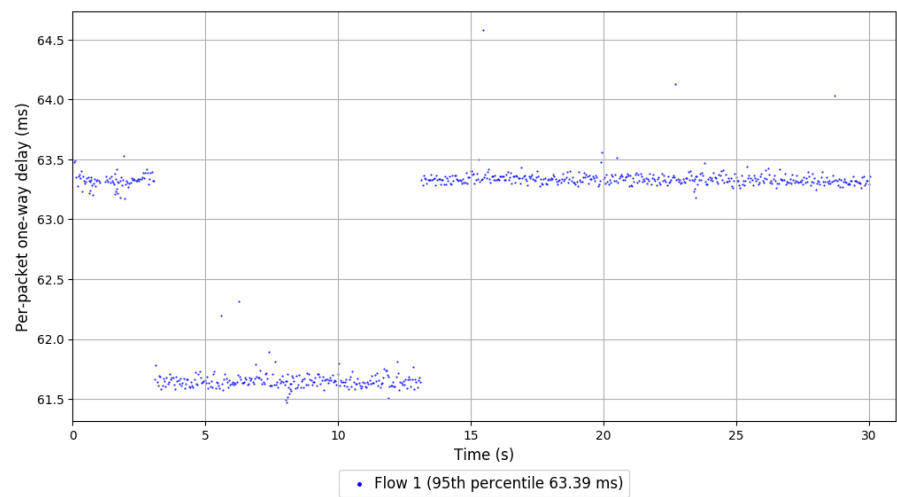
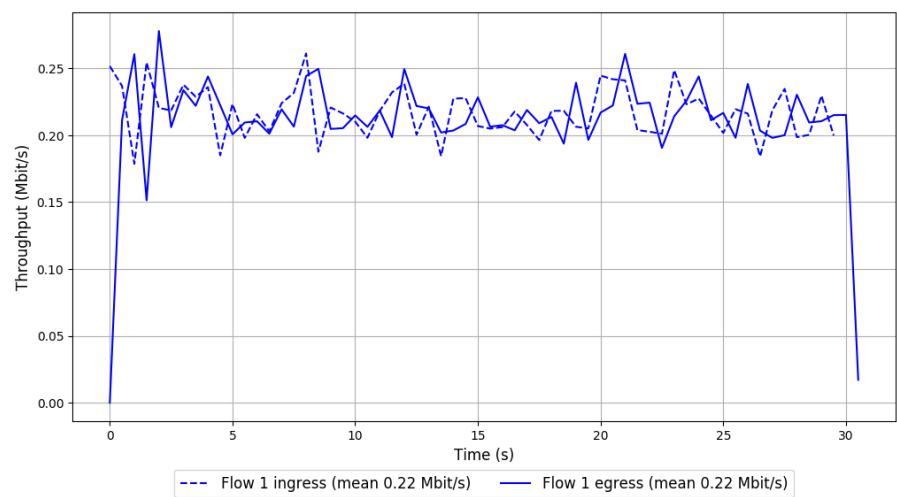


Run 8: Statistics of SCReAM

Start at: 2018-06-06 03:38:47  
End at: 2018-06-06 03:39:17  
Local clock offset: -0.002 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.389 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.389 ms  
Loss rate: 0.00%

Run 8: Report of SReAM — Data Link

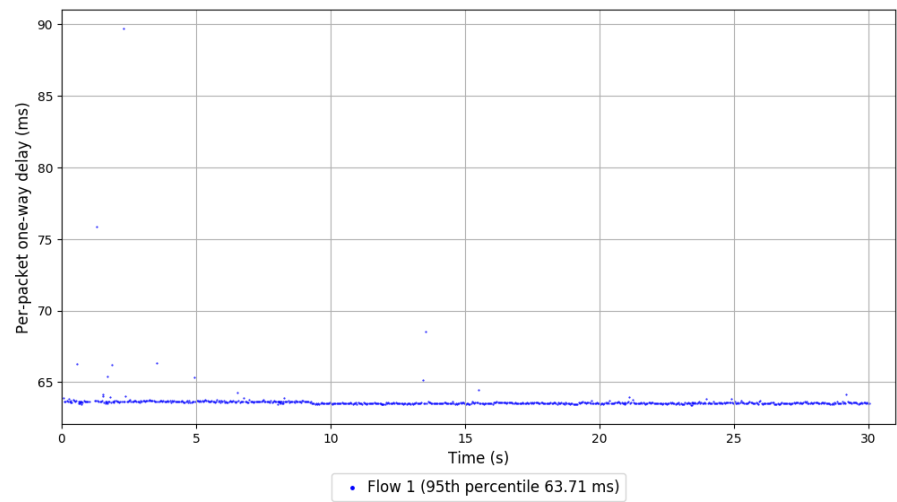
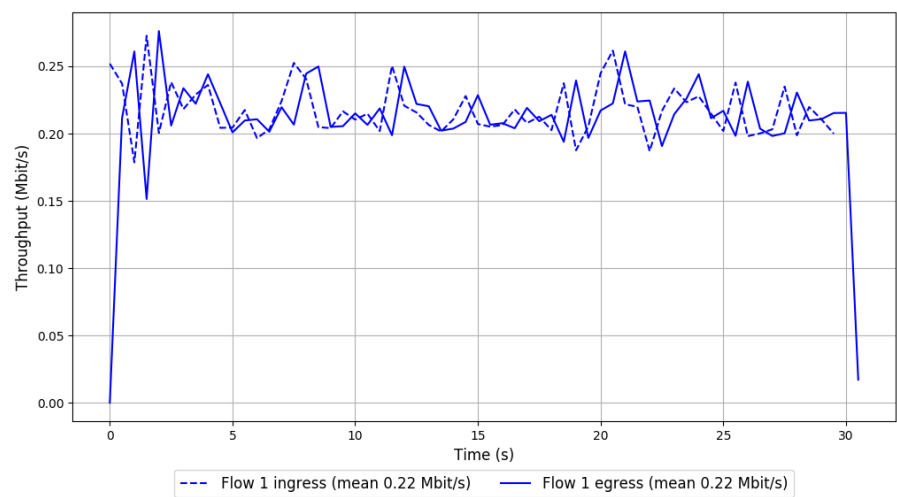


Run 9: Statistics of SReAM

Start at: 2018-06-06 03:59:01  
End at: 2018-06-06 03:59:32  
Local clock offset: -0.063 ms  
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.712 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.712 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-06-06 04:19:04

End at: 2018-06-06 04:19:34

Local clock offset: -0.048 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.00%

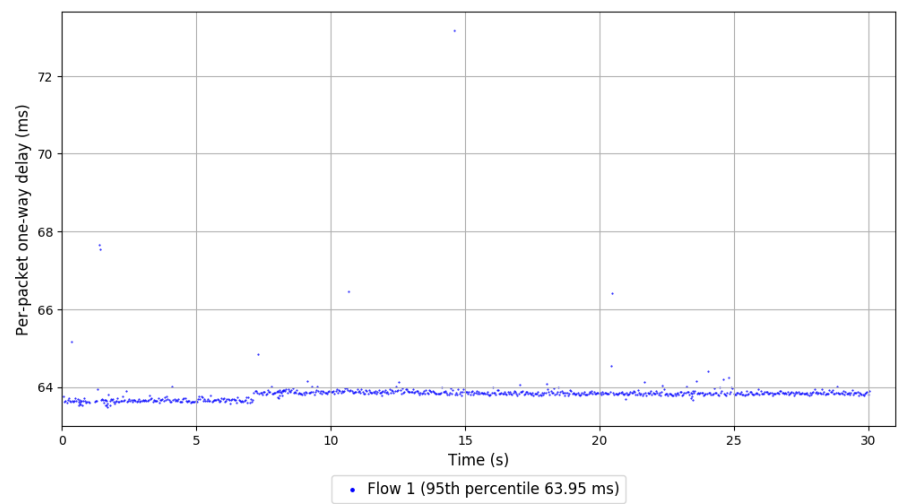
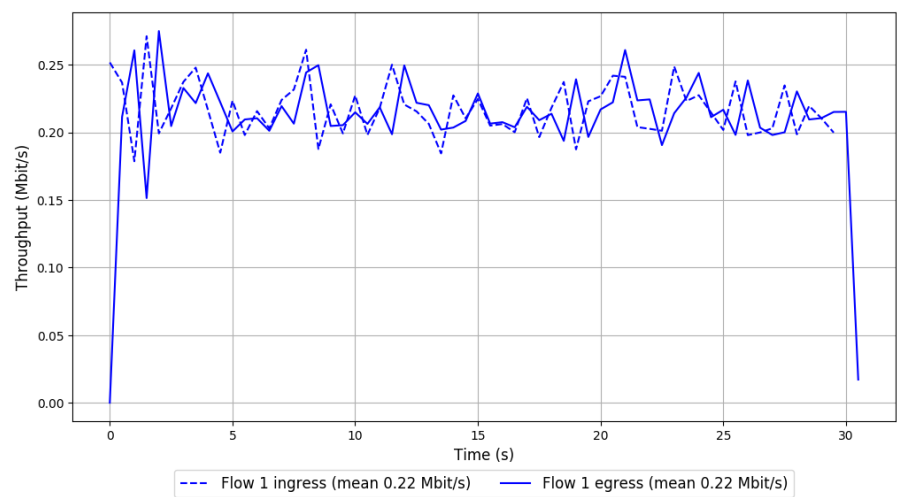
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.00%

Run 10: Report of SReAM — Data Link



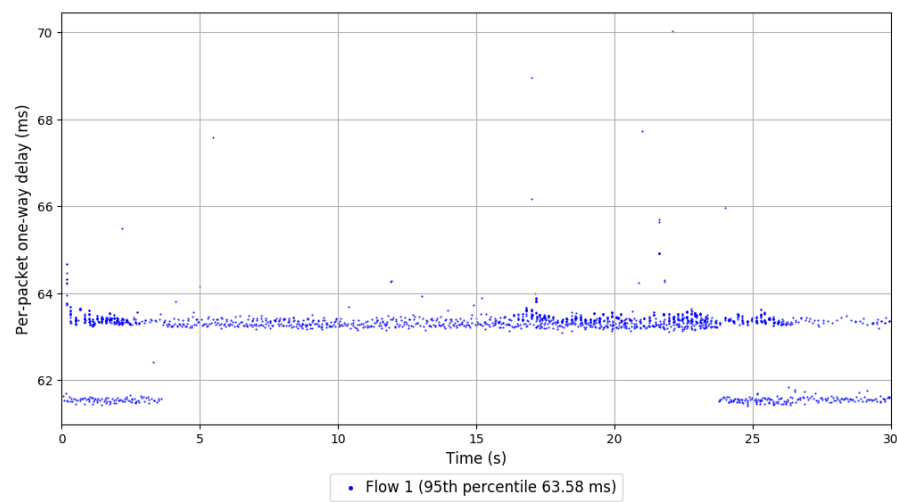
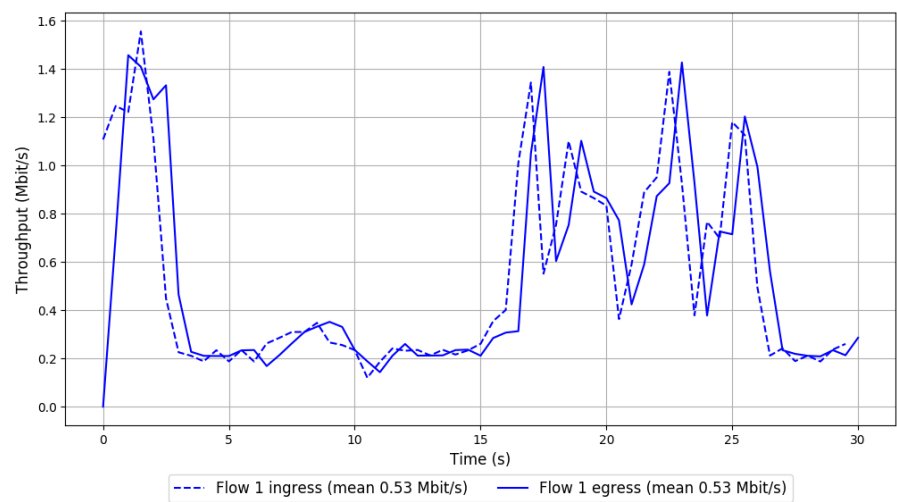
Run 1: Statistics of Sprout

Start at: 2018-06-06 01:34:37  
End at: 2018-06-06 01:35:07  
Local clock offset: -0.023 ms  
Remote clock offset: -0.322 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 63.581 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 63.581 ms  
Loss rate: 0.00%



Run 1: Report of Sprout — Data Link

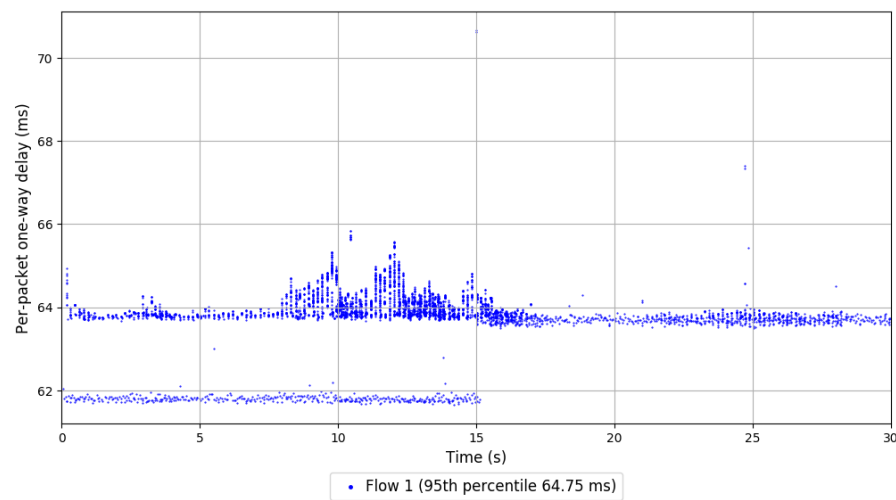
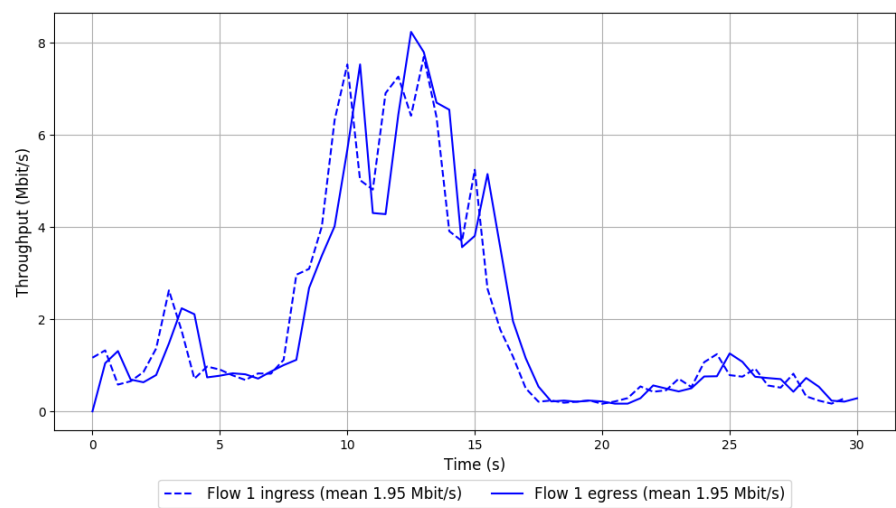


Run 2: Statistics of Sprout

Start at: 2018-06-06 01:54:45  
End at: 2018-06-06 01:55:15  
Local clock offset: -0.067 ms  
Remote clock offset: 0.1 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 64.747 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 64.747 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

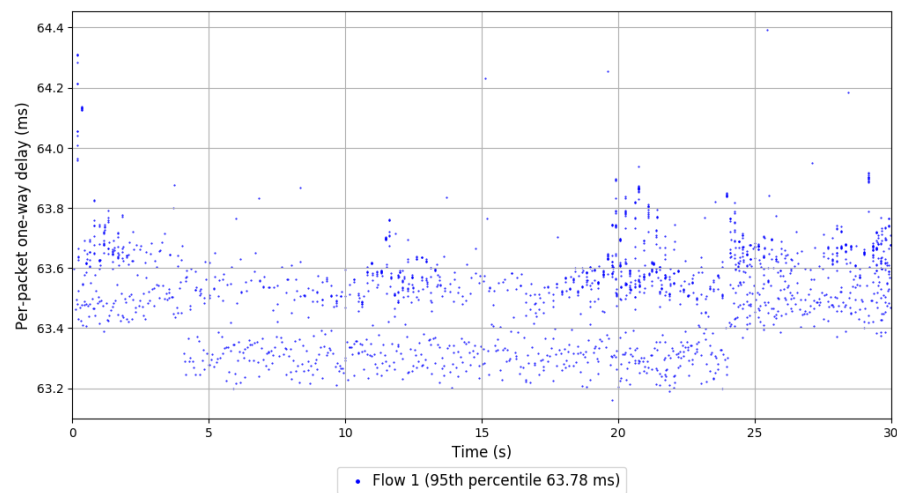
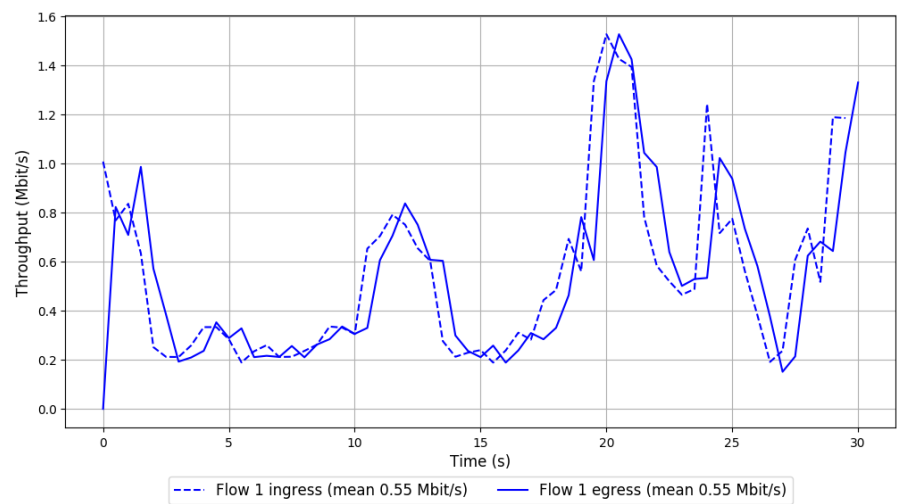


Run 3: Statistics of Sprout

Start at: 2018-06-06 02:14:56  
End at: 2018-06-06 02:15:27  
Local clock offset: -0.062 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 63.780 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.55 Mbit/s  
95th percentile per-packet one-way delay: 63.780 ms  
Loss rate: 0.00%

Run 3: Report of Sprout — Data Link

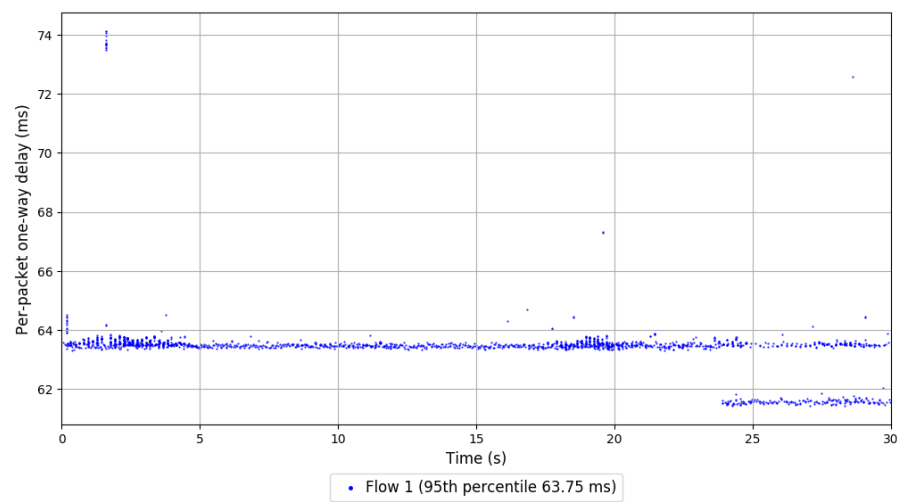
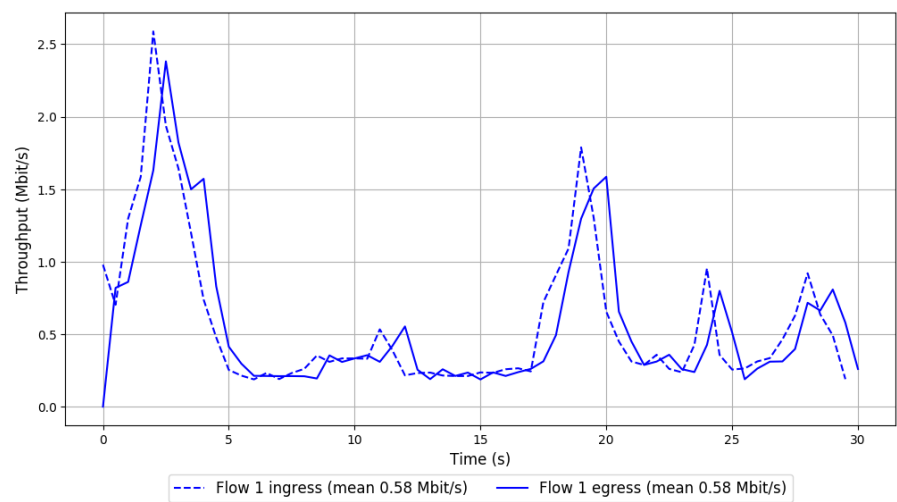


Run 4: Statistics of Sprout

Start at: 2018-06-06 02:35:17  
End at: 2018-06-06 02:35:47  
Local clock offset: -0.032 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 63.751 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 63.751 ms  
Loss rate: 0.00%

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-06-06 02:55:08

End at: 2018-06-06 02:55:38

Local clock offset: -0.027 ms

Remote clock offset: 0.222 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 64.003 ms

Loss rate: 0.00%

-- Flow 1:

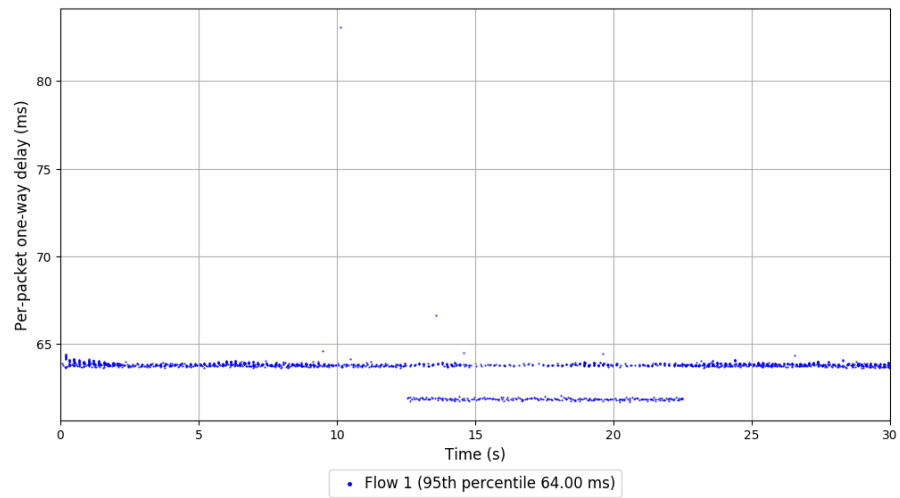
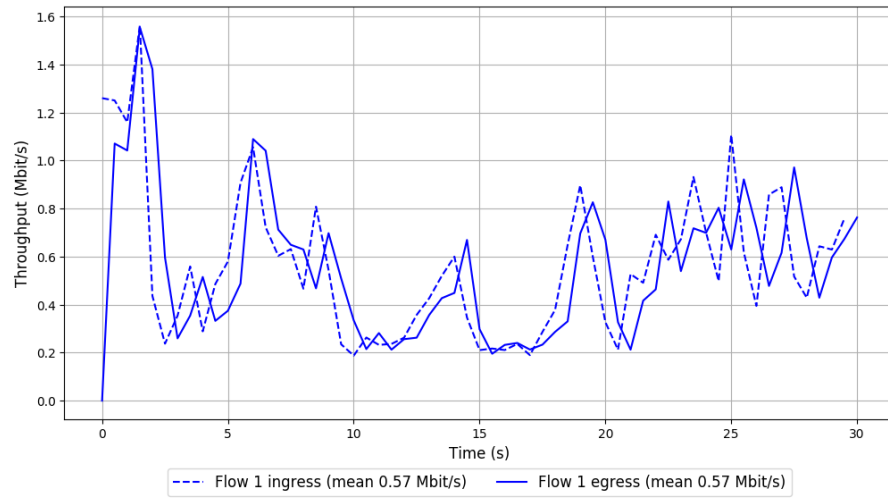
Average throughput: 0.57 Mbit/s

95th percentile per-packet one-way delay: 64.003 ms

Loss rate: 0.00%



## Run 5: Report of Sprout — Data Link

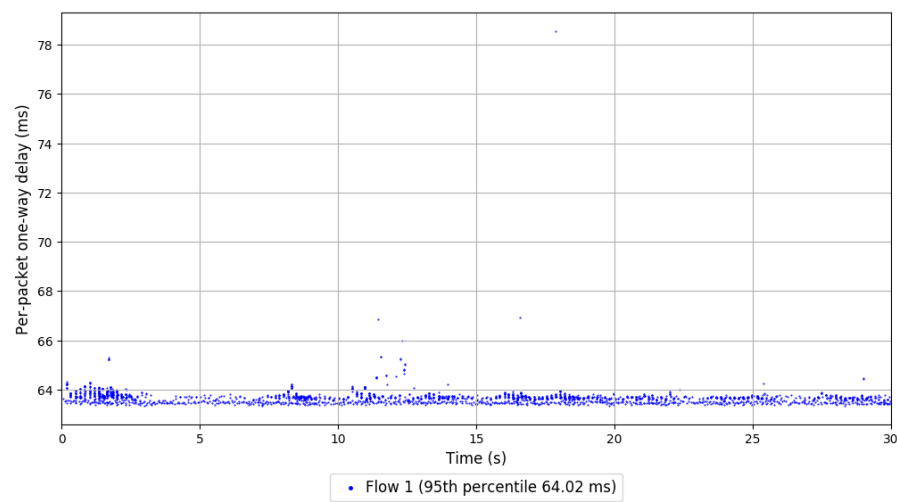
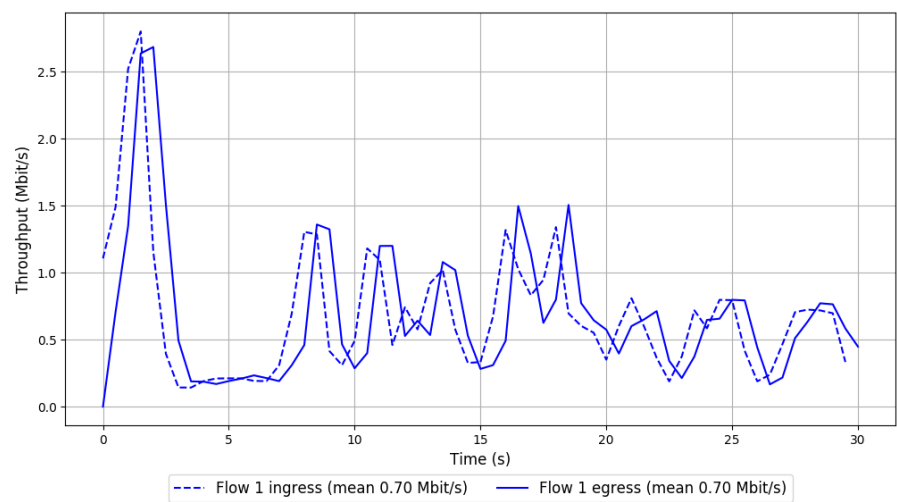


Run 6: Statistics of Sprout

Start at: 2018-06-06 03:15:00  
End at: 2018-06-06 03:15:30  
Local clock offset: -0.04 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 64.024 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.70 Mbit/s  
95th percentile per-packet one-way delay: 64.024 ms  
Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

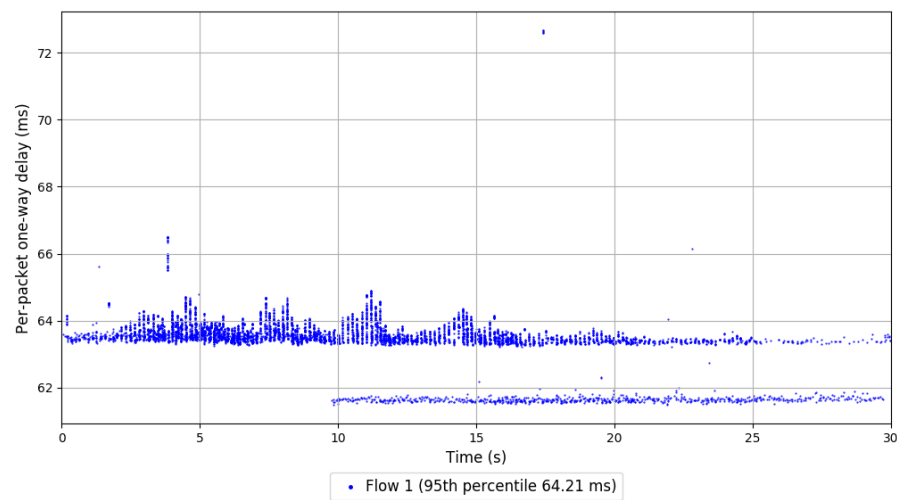
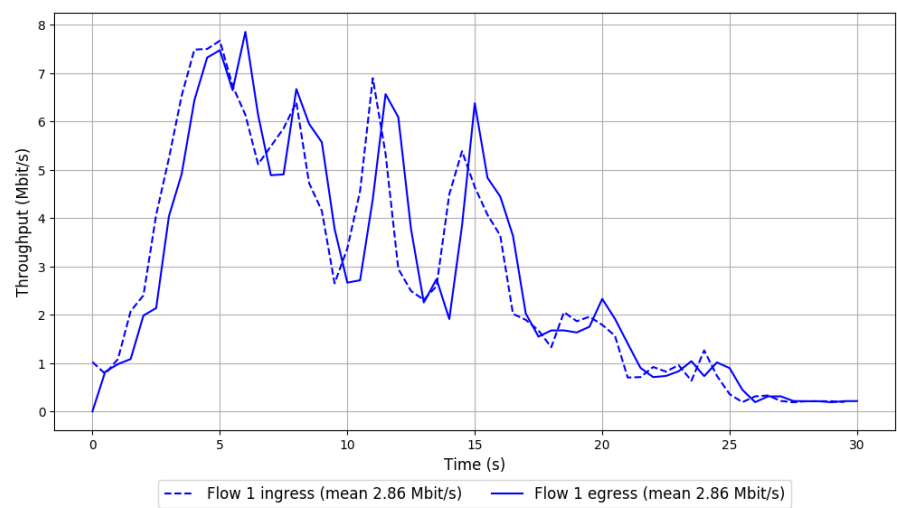


Run 7: Statistics of Sprout

Start at: 2018-06-06 03:35:01  
End at: 2018-06-06 03:35:31  
Local clock offset: -0.027 ms  
Remote clock offset: -0.184 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.86 Mbit/s  
95th percentile per-packet one-way delay: 64.212 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.86 Mbit/s  
95th percentile per-packet one-way delay: 64.212 ms  
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

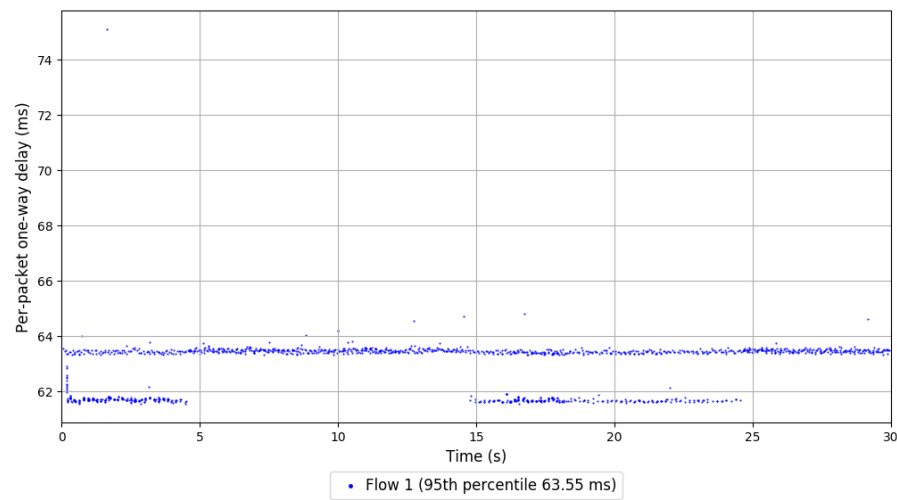
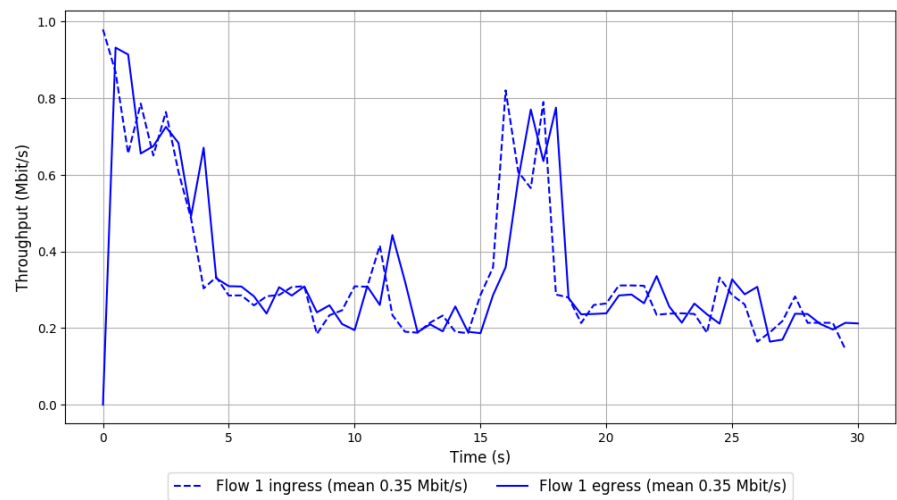


Run 8: Statistics of Sprout

Start at: 2018-06-06 03:55:16  
End at: 2018-06-06 03:55:46  
Local clock offset: -0.048 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 63.555 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 63.555 ms  
Loss rate: 0.00%

Run 8: Report of Sprout — Data Link



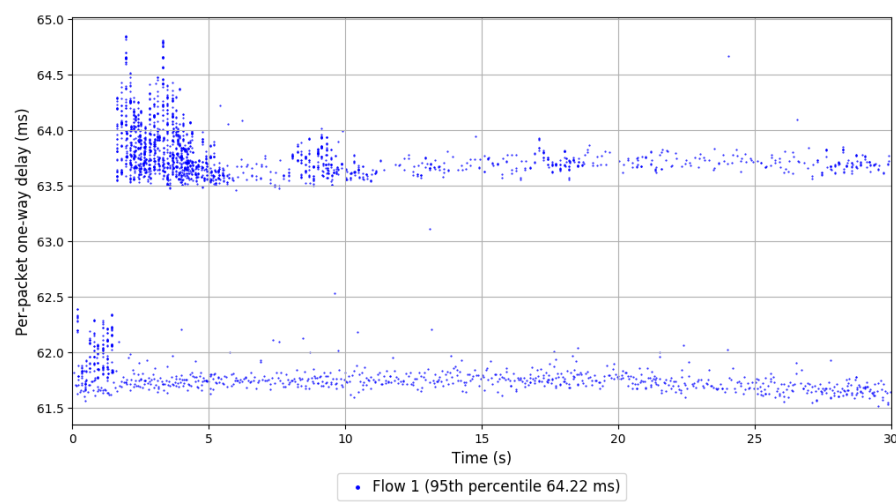
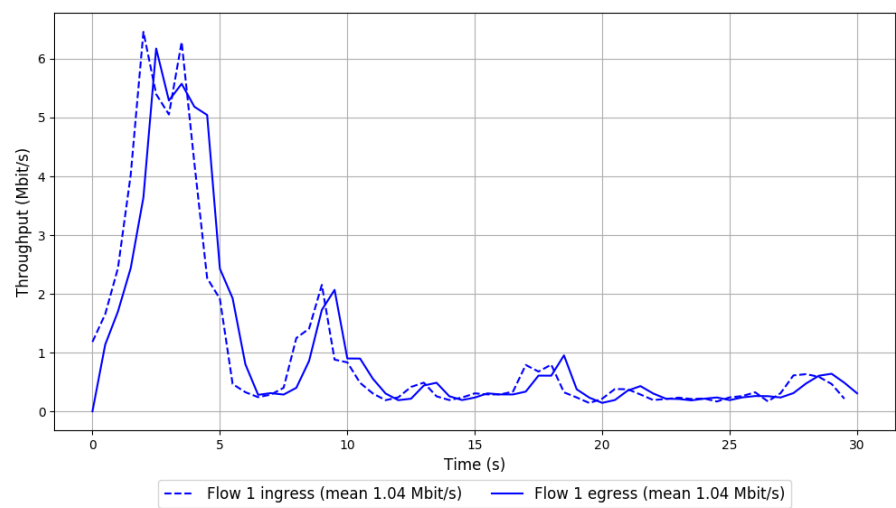
Run 9: Statistics of Sprout

Start at: 2018-06-06 04:15:19  
End at: 2018-06-06 04:15:49  
Local clock offset: -0.058 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2018-06-06 05:41:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.04 Mbit/s  
95th percentile per-packet one-way delay: 64.222 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.04 Mbit/s  
95th percentile per-packet one-way delay: 64.222 ms  
Loss rate: 0.00%



Run 9: Report of Sprout — Data Link



Run 10: Statistics of Sprout

Start at: 2018-06-06 04:35:27

End at: 2018-06-06 04:35:58

Local clock offset: -0.06 ms

Remote clock offset: -0.167 ms

# Below is generated by plot.py at 2018-06-06 05:41:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.00%

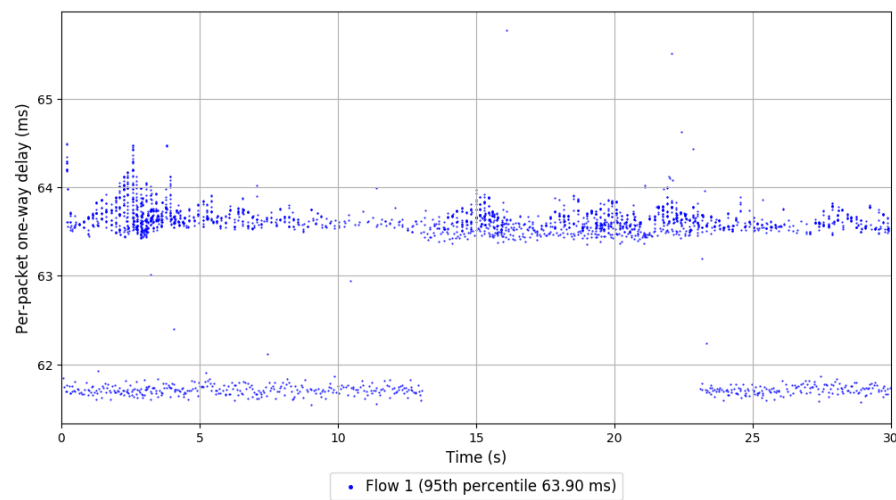
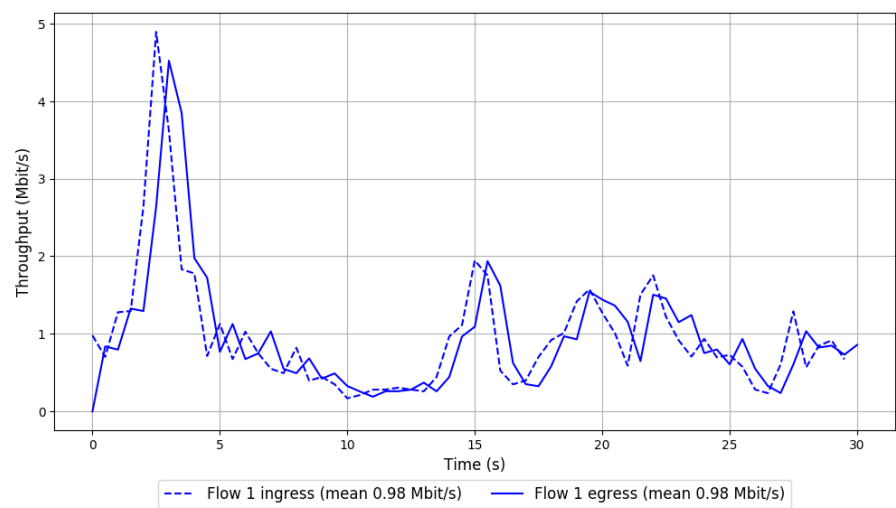
-- Flow 1:

Average throughput: 0.98 Mbit/s

95th percentile per-packet one-way delay: 63.902 ms

Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

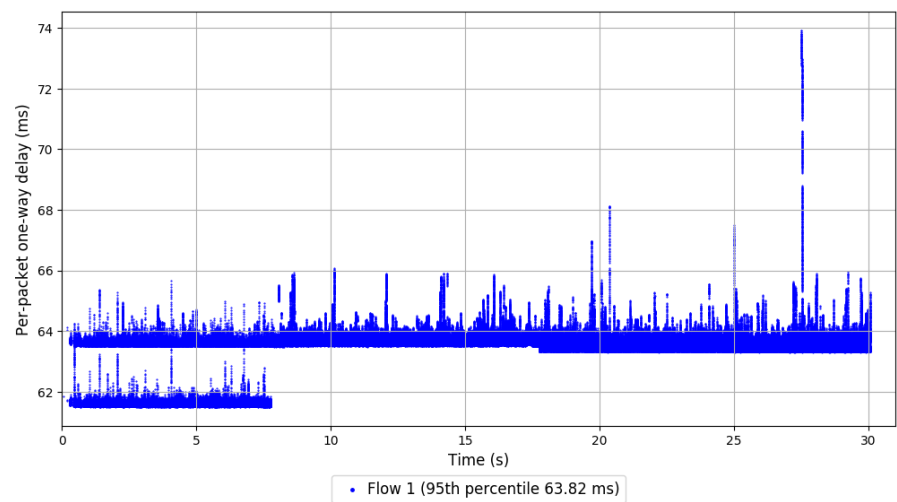
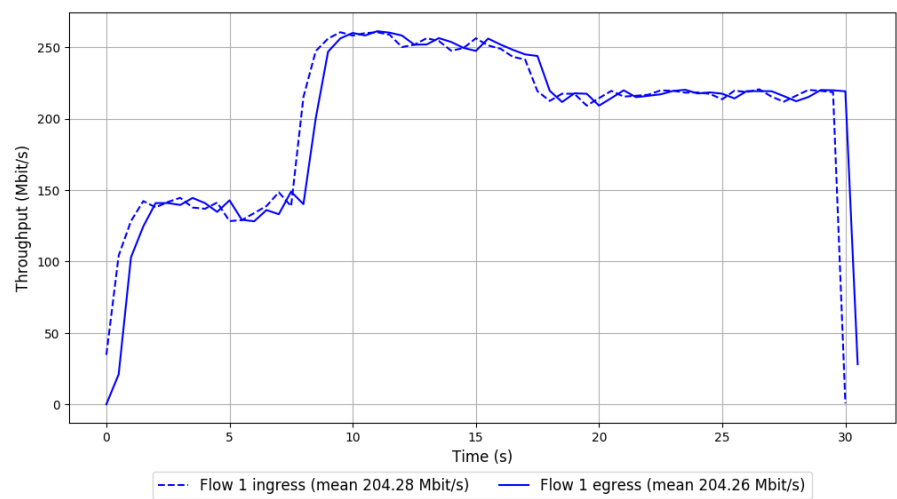


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-06-06 01:25:33
End at: 2018-06-06 01:26:03
Local clock offset: 0.033 ms
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2018-06-06 05:42:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 204.26 Mbit/s
95th percentile per-packet one-way delay: 63.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 204.26 Mbit/s
95th percentile per-packet one-way delay: 63.823 ms
Loss rate: 0.00%
```

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

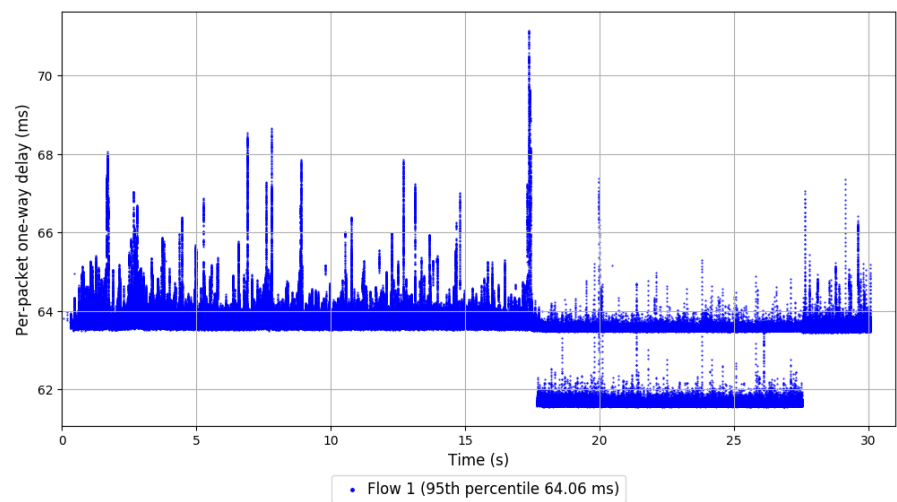
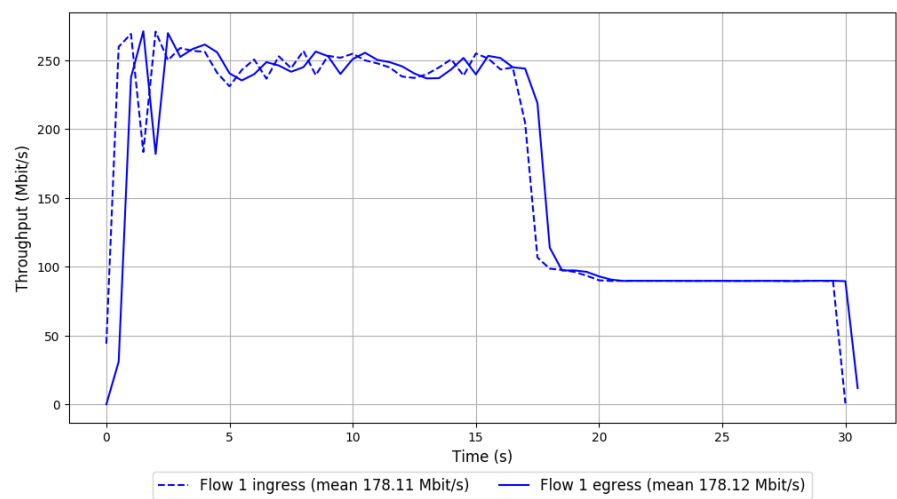


Run 2: Statistics of TaoVA-100x

Start at: 2018-06-06 01:45:43  
End at: 2018-06-06 01:46:13  
Local clock offset: -0.107 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2018-06-06 05:42:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.12 Mbit/s  
95th percentile per-packet one-way delay: 64.056 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 178.12 Mbit/s  
95th percentile per-packet one-way delay: 64.056 ms  
Loss rate: 0.00%

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



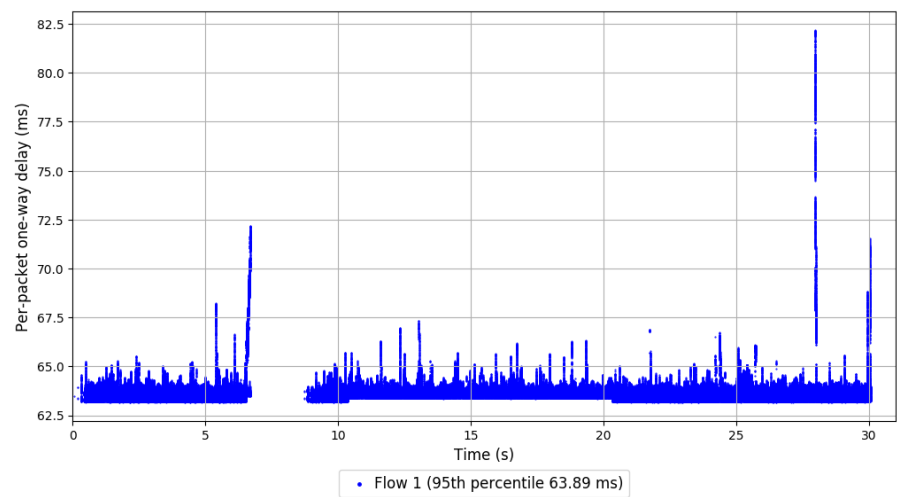
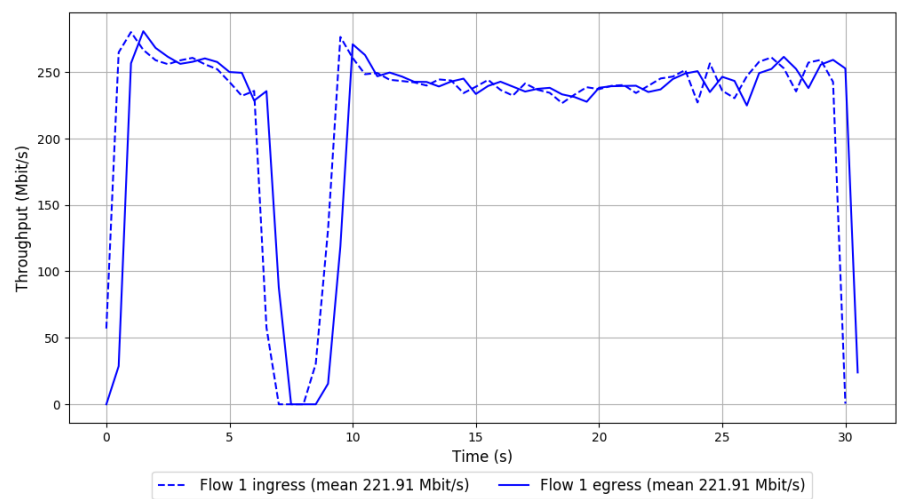
Run 3: Statistics of TaoVA-100x

Start at: 2018-06-06 02:05:50  
End at: 2018-06-06 02:06:20  
Local clock offset: -0.098 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2018-06-06 05:43:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 221.91 Mbit/s  
95th percentile per-packet one-way delay: 63.886 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 221.91 Mbit/s  
95th percentile per-packet one-way delay: 63.886 ms  
Loss rate: 0.00%



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



Run 4: Statistics of TaoVA-100x

Start at: 2018-06-06 02:26:10

End at: 2018-06-06 02:26:40

Local clock offset: -0.039 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2018-06-06 05:43:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 138.06 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 0.00%

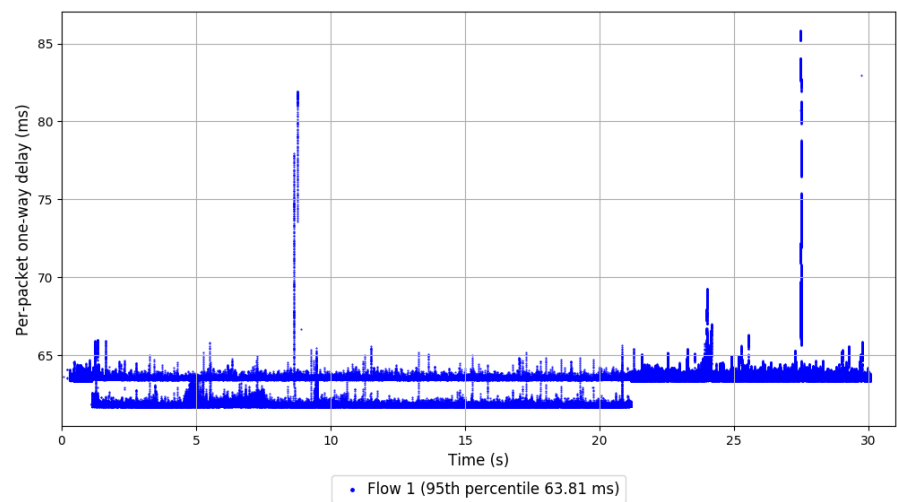
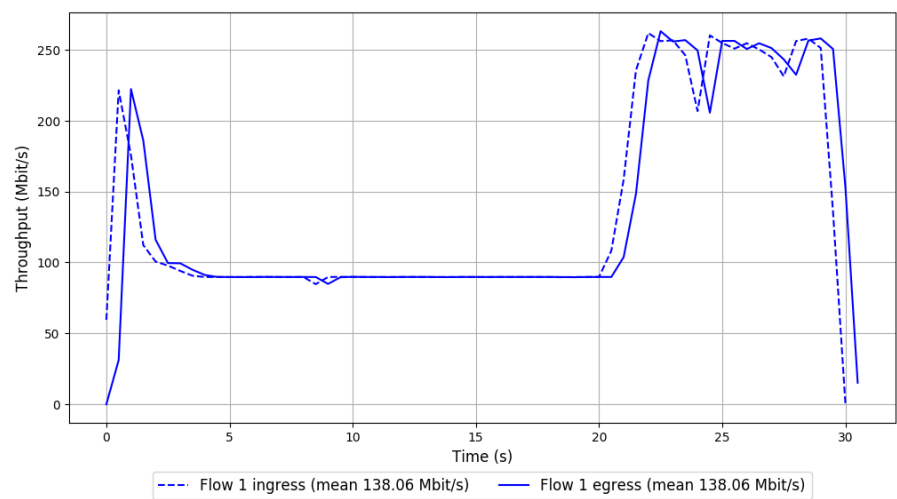
-- Flow 1:

Average throughput: 138.06 Mbit/s

95th percentile per-packet one-way delay: 63.808 ms

Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2018-06-06 02:46:25

End at: 2018-06-06 02:46:55

Local clock offset: -0.05 ms

Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2018-06-06 05:43:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 14.43 Mbit/s

95th percentile per-packet one-way delay: 63.496 ms

Loss rate: 0.00%

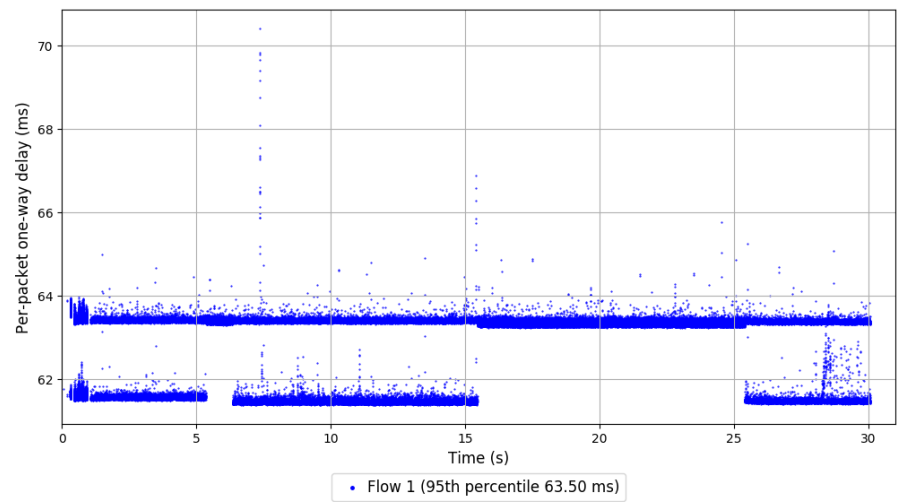
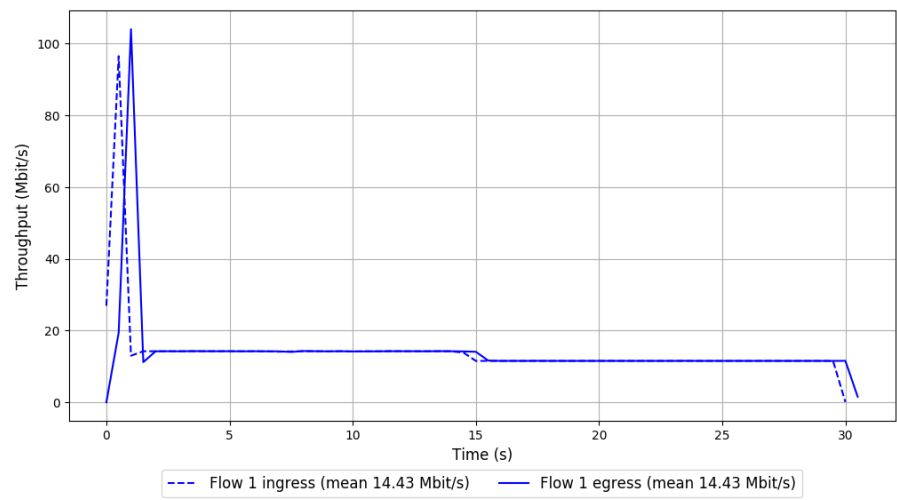
-- Flow 1:

Average throughput: 14.43 Mbit/s

95th percentile per-packet one-way delay: 63.496 ms

Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-06-06 03:05:52

End at: 2018-06-06 03:06:22

Local clock offset: -0.026 ms

Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-06-06 05:45:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 239.24 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.00%

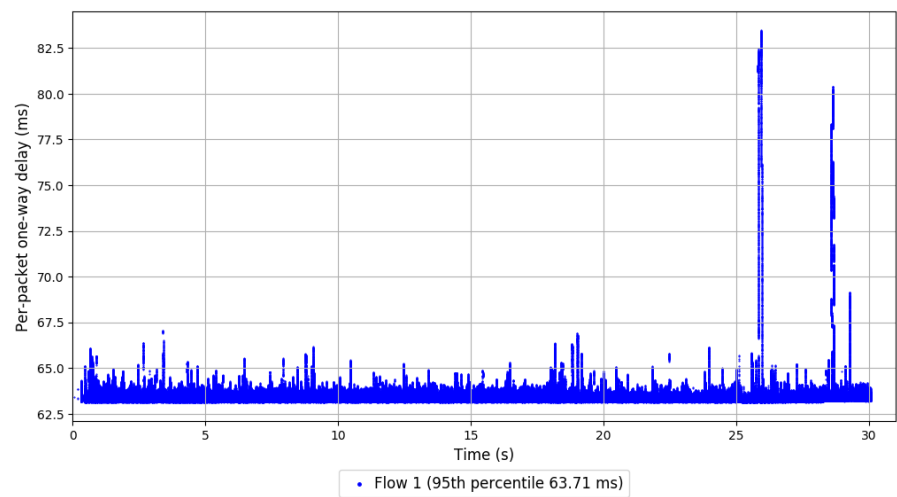
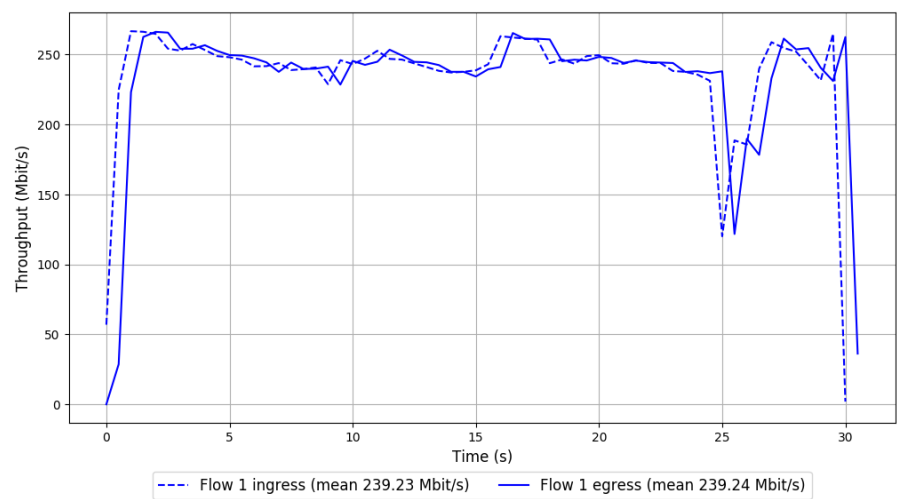
-- Flow 1:

Average throughput: 239.24 Mbit/s

95th percentile per-packet one-way delay: 63.710 ms

Loss rate: 0.00%

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



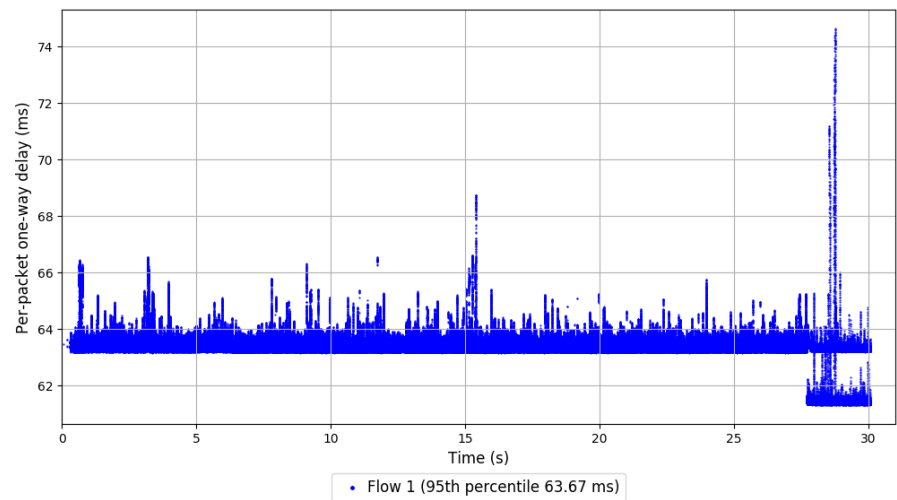
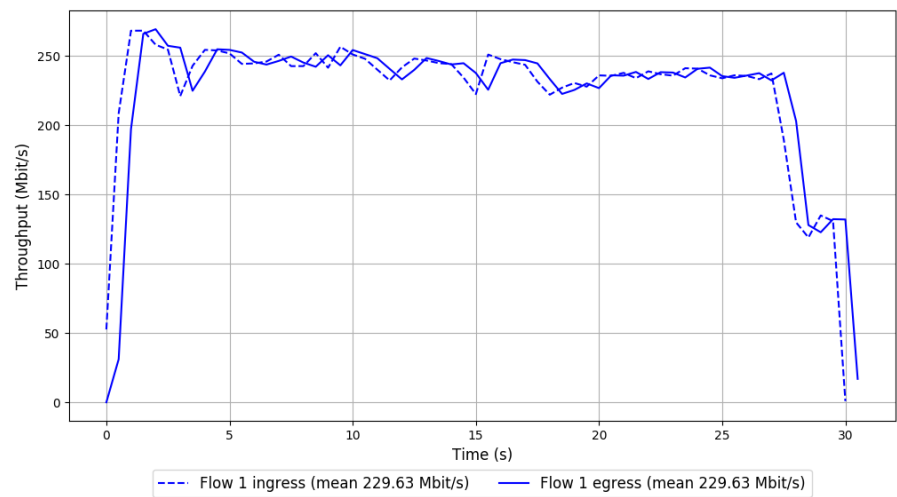
Run 7: Statistics of TaoVA-100x

Start at: 2018-06-06 03:26:03  
End at: 2018-06-06 03:26:33  
Local clock offset: -0.036 ms  
Remote clock offset: -0.217 ms

# Below is generated by plot.py at 2018-06-06 05:45:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.63 Mbit/s  
95th percentile per-packet one-way delay: 63.671 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 229.63 Mbit/s  
95th percentile per-packet one-way delay: 63.671 ms  
Loss rate: 0.00%



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



Run 8: Statistics of TaoVA-100x

Start at: 2018-06-06 03:46:11

End at: 2018-06-06 03:46:41

Local clock offset: -0.082 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2018-06-06 05:46:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 234.78 Mbit/s

95th percentile per-packet one-way delay: 63.988 ms

Loss rate: 0.00%

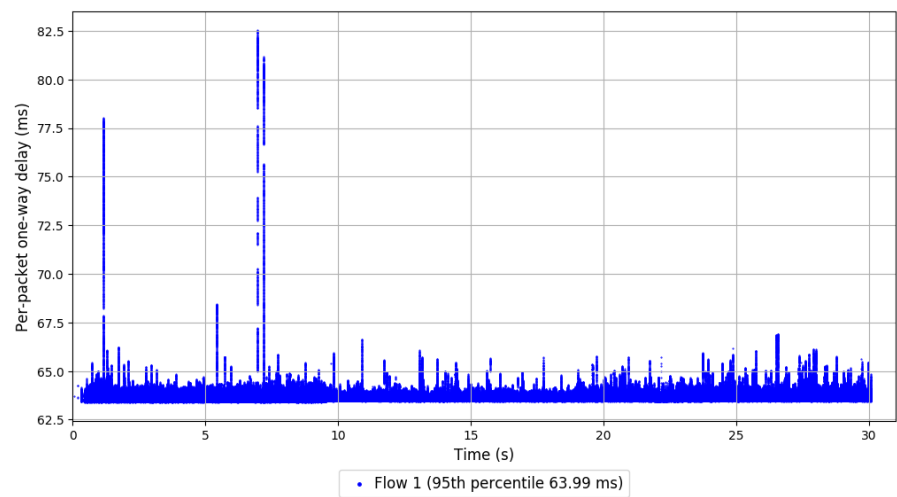
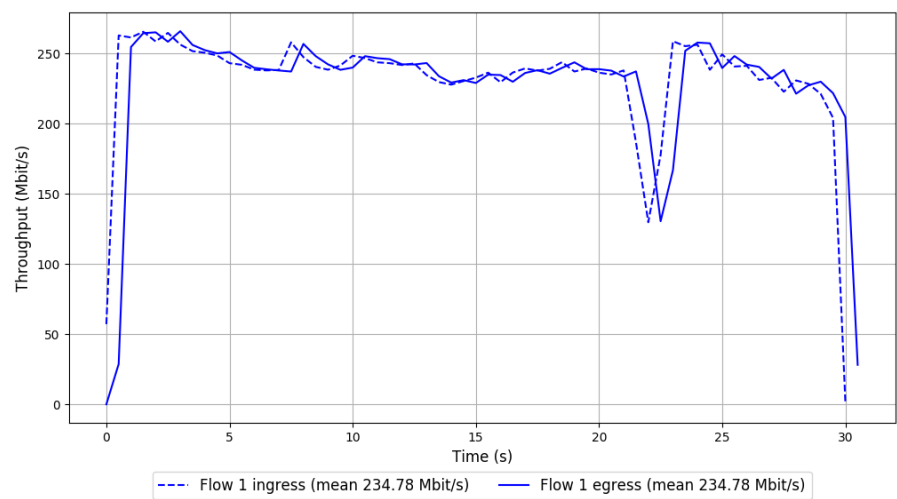
-- Flow 1:

Average throughput: 234.78 Mbit/s

95th percentile per-packet one-way delay: 63.988 ms

Loss rate: 0.00%

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



Run 9: Statistics of TaoVA-100x

Start at: 2018-06-06 04:06:28

End at: 2018-06-06 04:06:58

Local clock offset: -0.025 ms

Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2018-06-06 05:46:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.00%

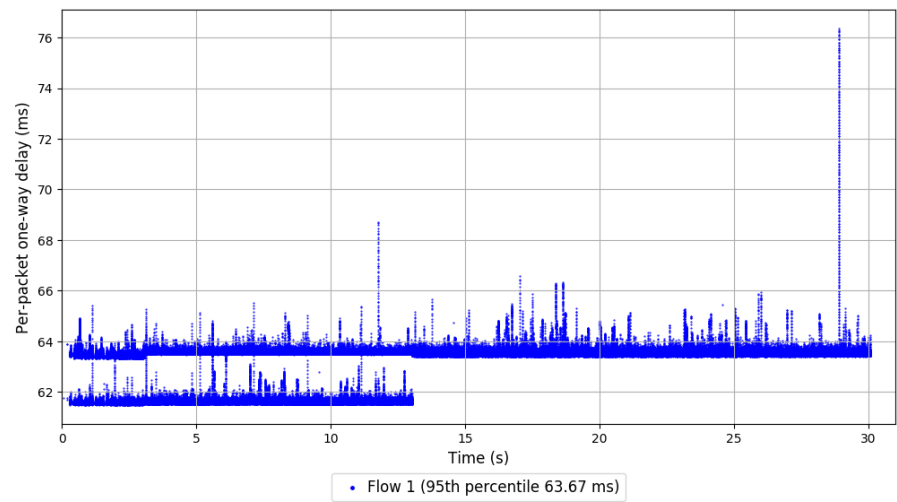
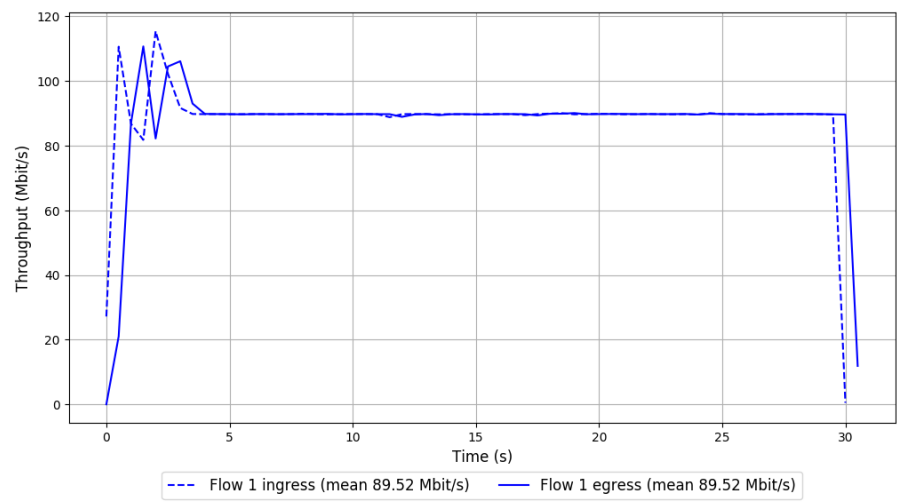
-- Flow 1:

Average throughput: 89.52 Mbit/s

95th percentile per-packet one-way delay: 63.673 ms

Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-06-06 04:26:27

End at: 2018-06-06 04:26:57

Local clock offset: -0.037 ms

Remote clock offset: -0.315 ms

# Below is generated by plot.py at 2018-06-06 05:48:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 204.62 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.00%

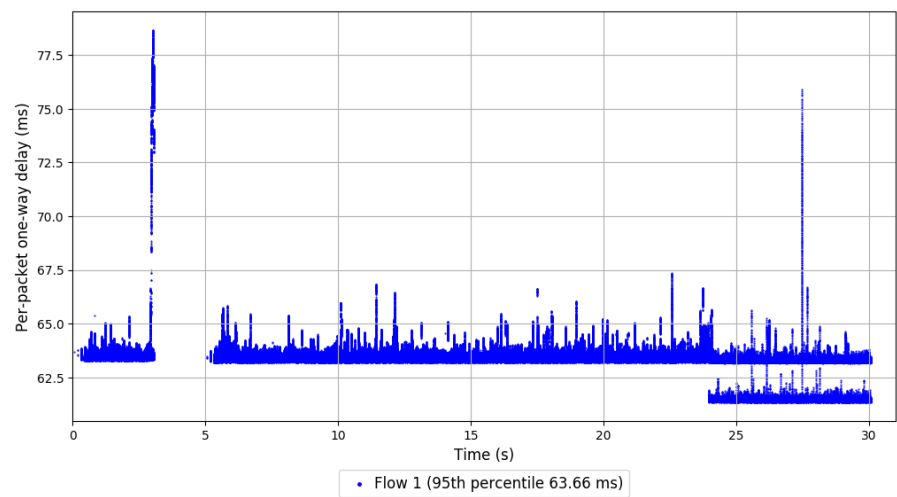
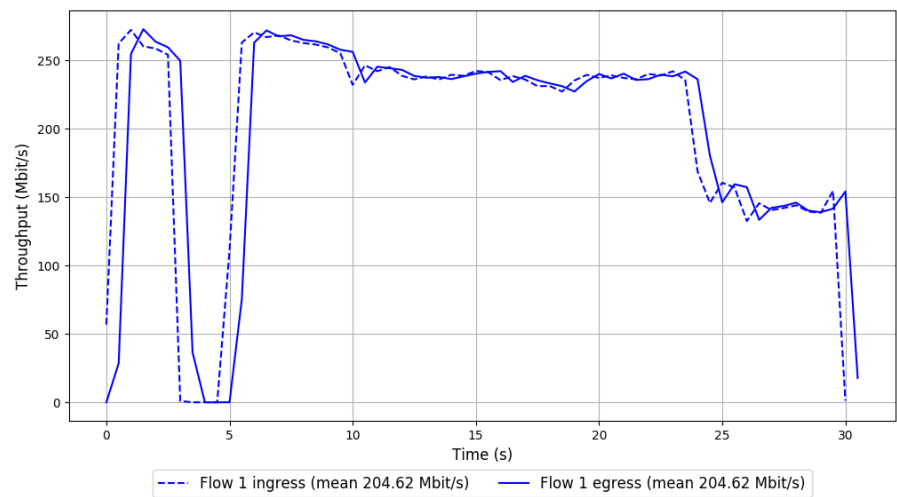
-- Flow 1:

Average throughput: 204.62 Mbit/s

95th percentile per-packet one-way delay: 63.661 ms

Loss rate: 0.00%

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



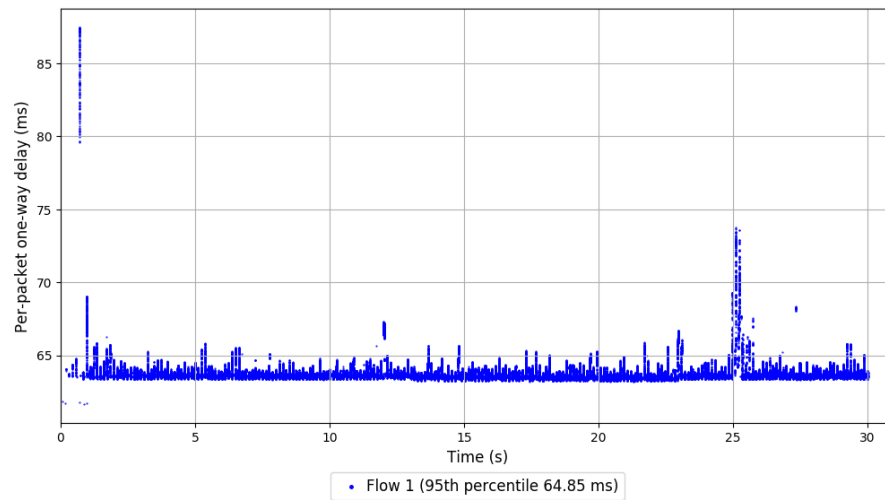
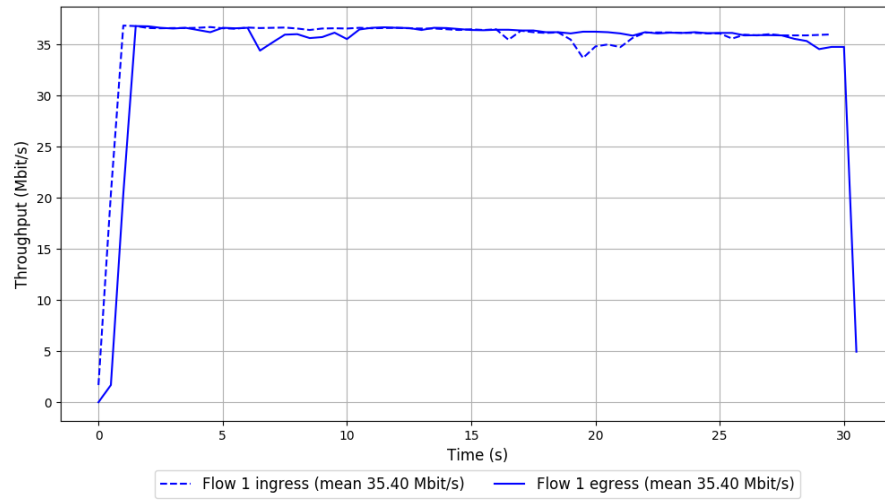
Run 1: Statistics of TCP Vegas

Start at: 2018-06-06 01:23:18  
End at: 2018-06-06 01:23:48  
Local clock offset: 0.055 ms  
Remote clock offset: -0.343 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 35.40 Mbit/s  
95th percentile per-packet one-way delay: 64.846 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 35.40 Mbit/s  
95th percentile per-packet one-way delay: 64.846 ms  
Loss rate: 0.00%



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



Run 2: Statistics of TCP Vegas

Start at: 2018-06-06 01:43:21

End at: 2018-06-06 01:43:51

Local clock offset: -0.053 ms

Remote clock offset: 0.133 ms

# Below is generated by plot.py at 2018-06-06 05:48:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 182.46 Mbit/s

95th percentile per-packet one-way delay: 75.903 ms

Loss rate: 0.05%

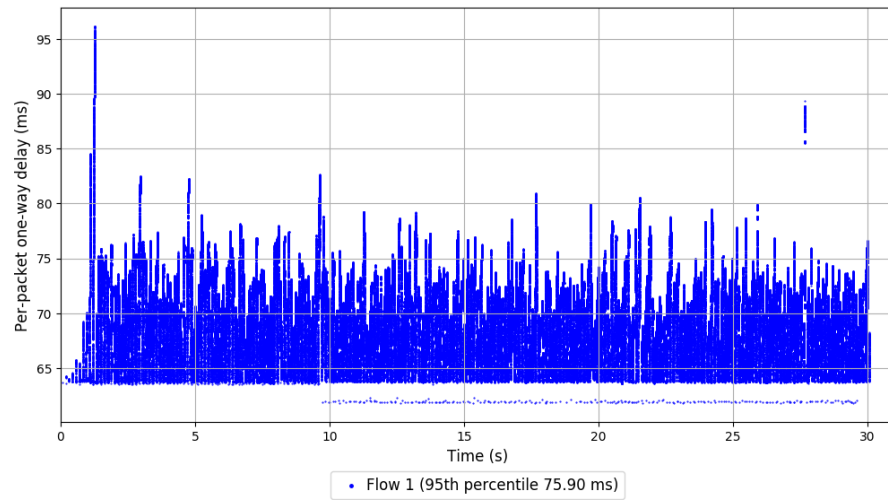
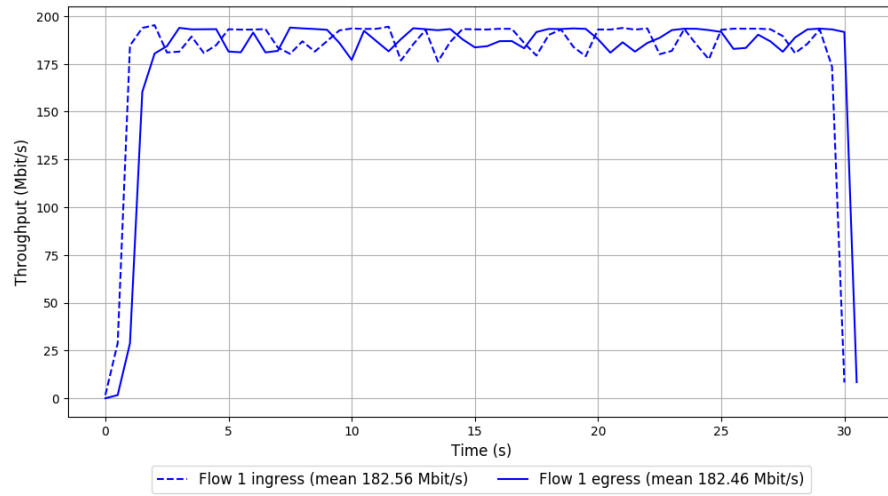
-- Flow 1:

Average throughput: 182.46 Mbit/s

95th percentile per-packet one-way delay: 75.903 ms

Loss rate: 0.05%

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

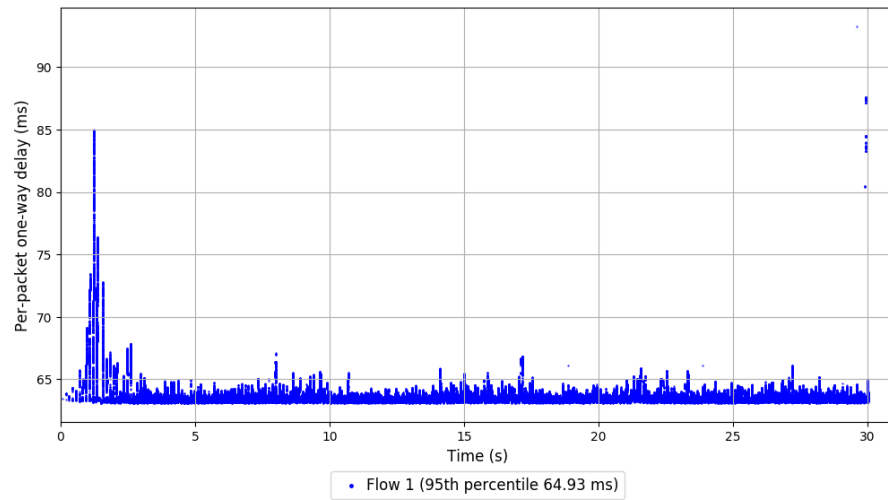
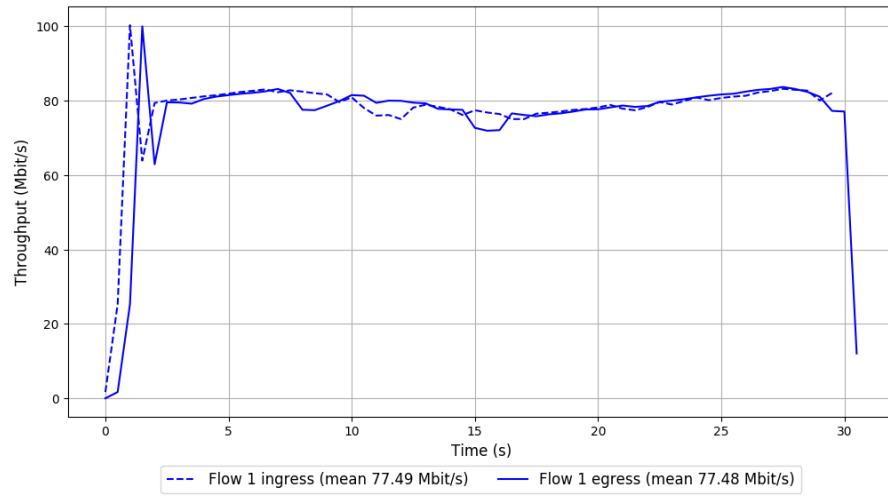


Run 3: Statistics of TCP Vegas

Start at: 2018-06-06 02:03:33  
End at: 2018-06-06 02:04:03  
Local clock offset: -0.068 ms  
Remote clock offset: -0.313 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 77.48 Mbit/s  
95th percentile per-packet one-way delay: 64.933 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 77.48 Mbit/s  
95th percentile per-packet one-way delay: 64.933 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TCP Vegas

Start at: 2018-06-06 02:23:51

End at: 2018-06-06 02:24:21

Local clock offset: -0.063 ms

Remote clock offset: 0.268 ms

# Below is generated by plot.py at 2018-06-06 05:48:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 112.69 Mbit/s

95th percentile per-packet one-way delay: 75.645 ms

Loss rate: 0.00%

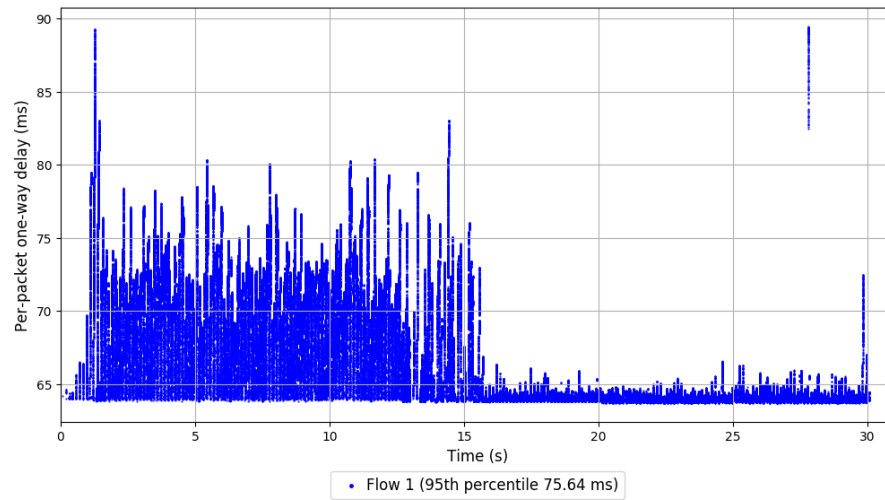
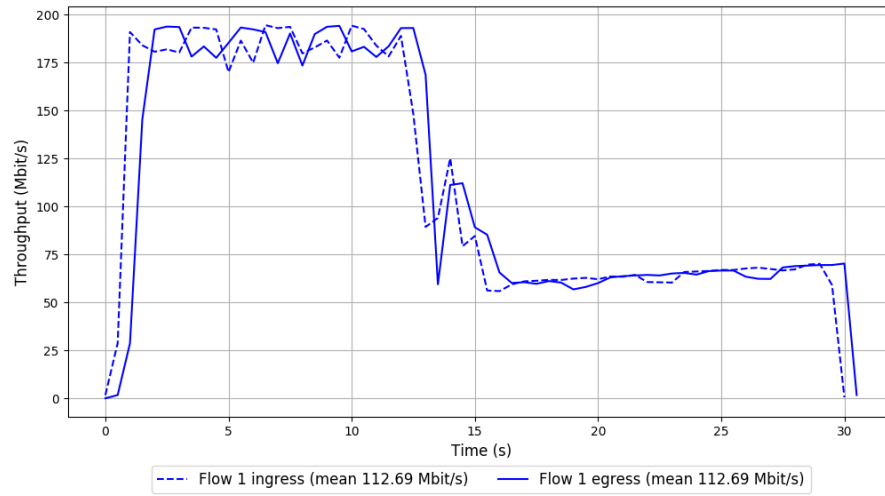
-- Flow 1:

Average throughput: 112.69 Mbit/s

95th percentile per-packet one-way delay: 75.645 ms

Loss rate: 0.00%

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



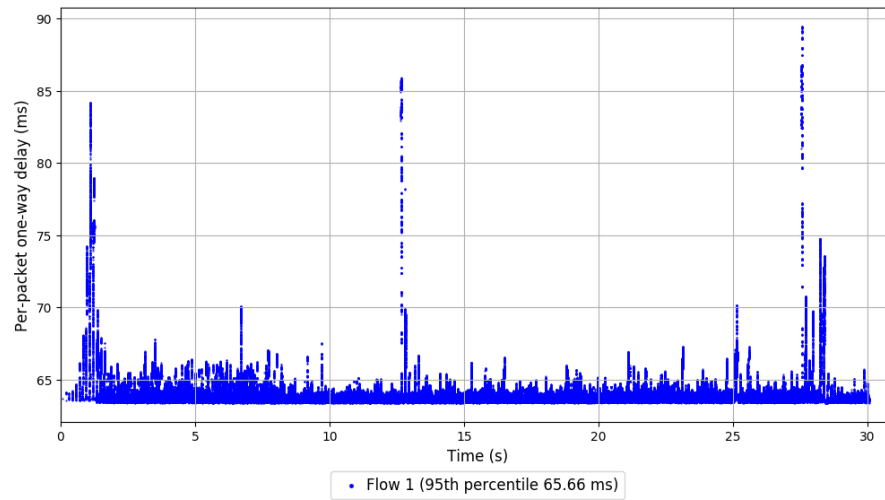
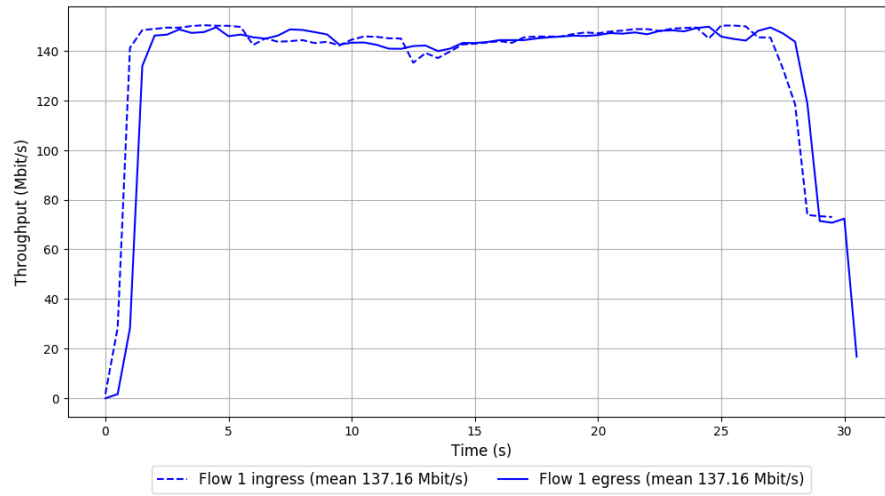
Run 5: Statistics of TCP Vegas

Start at: 2018-06-06 02:44:06  
End at: 2018-06-06 02:44:36  
Local clock offset: -0.032 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 137.16 Mbit/s  
95th percentile per-packet one-way delay: 65.661 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 137.16 Mbit/s  
95th percentile per-packet one-way delay: 65.661 ms  
Loss rate: 0.00%



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

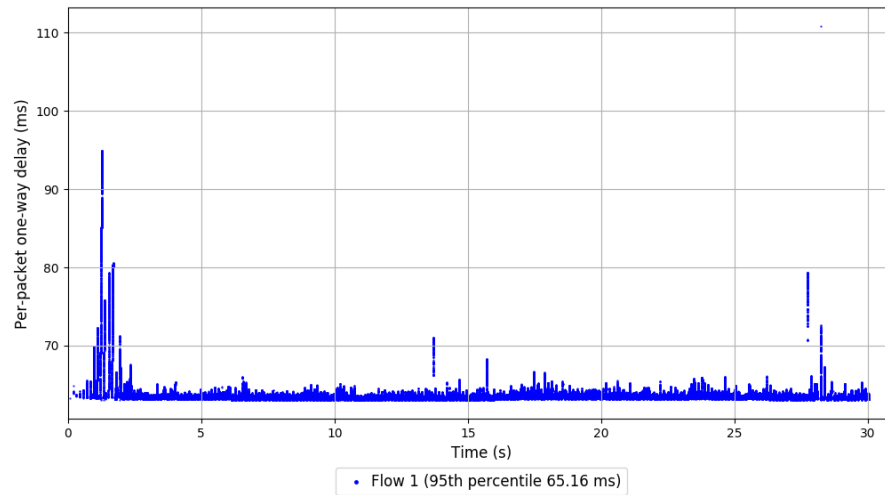
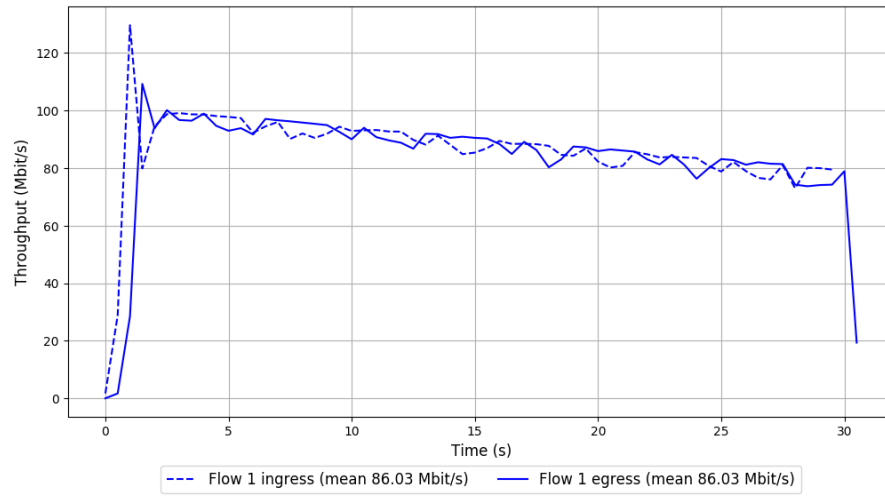


Run 6: Statistics of TCP Vegas

Start at: 2018-06-06 03:03:35  
End at: 2018-06-06 03:04:05  
Local clock offset: -0.038 ms  
Remote clock offset: -0.407 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 86.03 Mbit/s  
95th percentile per-packet one-way delay: 65.156 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 86.03 Mbit/s  
95th percentile per-packet one-way delay: 65.156 ms  
Loss rate: 0.00%

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



Run 7: Statistics of TCP Vegas

Start at: 2018-06-06 03:23:48

End at: 2018-06-06 03:24:18

Local clock offset: -0.029 ms

Remote clock offset: 0.14 ms

# Below is generated by plot.py at 2018-06-06 05:48:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 65.033 ms

Loss rate: 0.00%

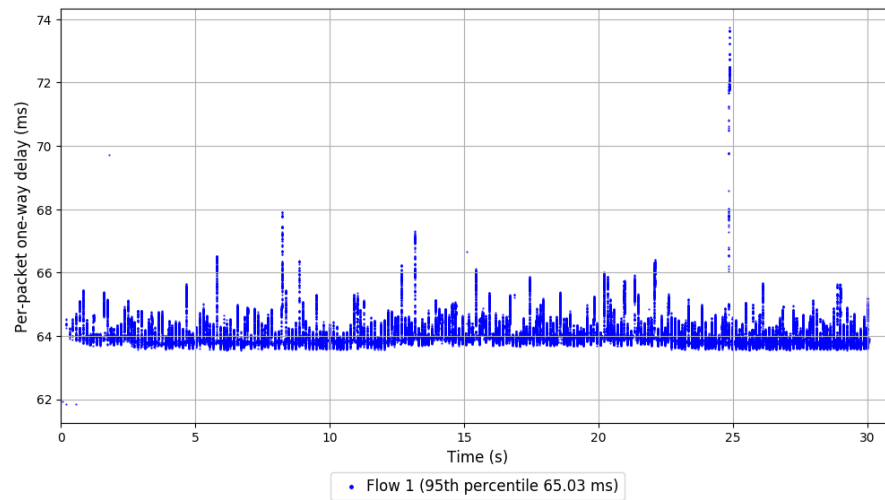
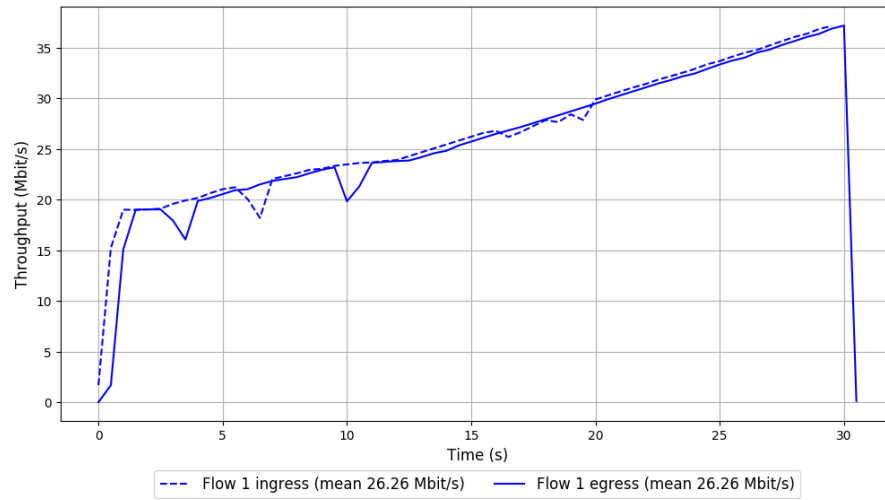
-- Flow 1:

Average throughput: 26.26 Mbit/s

95th percentile per-packet one-way delay: 65.033 ms

Loss rate: 0.00%

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

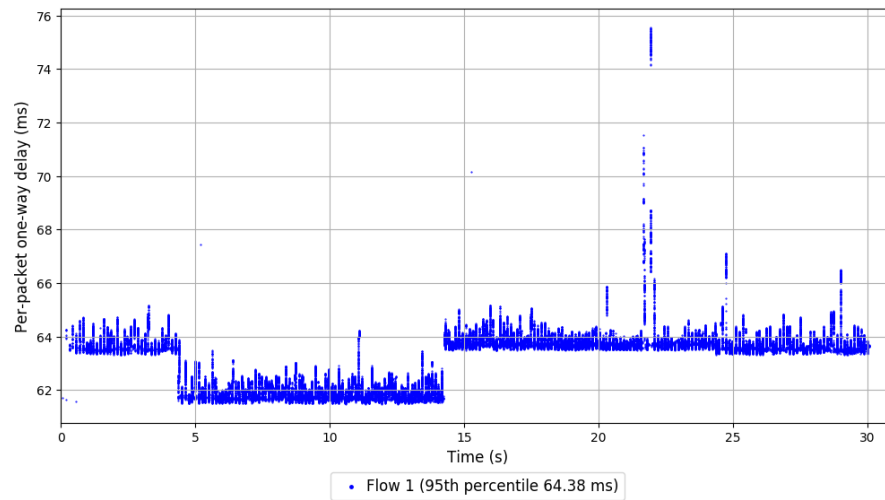
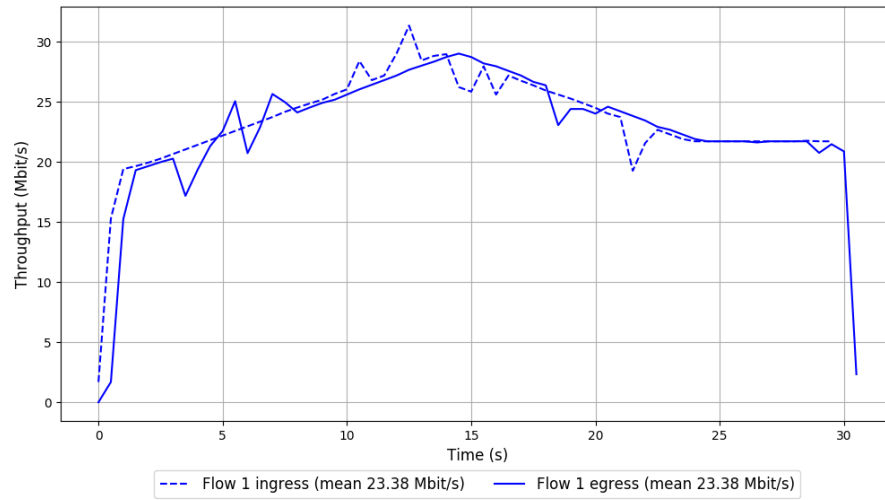


Run 8: Statistics of TCP Vegas

Start at: 2018-06-06 03:43:56  
End at: 2018-06-06 03:44:26  
Local clock offset: -0.011 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.38 Mbit/s  
95th percentile per-packet one-way delay: 64.376 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 23.38 Mbit/s  
95th percentile per-packet one-way delay: 64.376 ms  
Loss rate: 0.00%

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



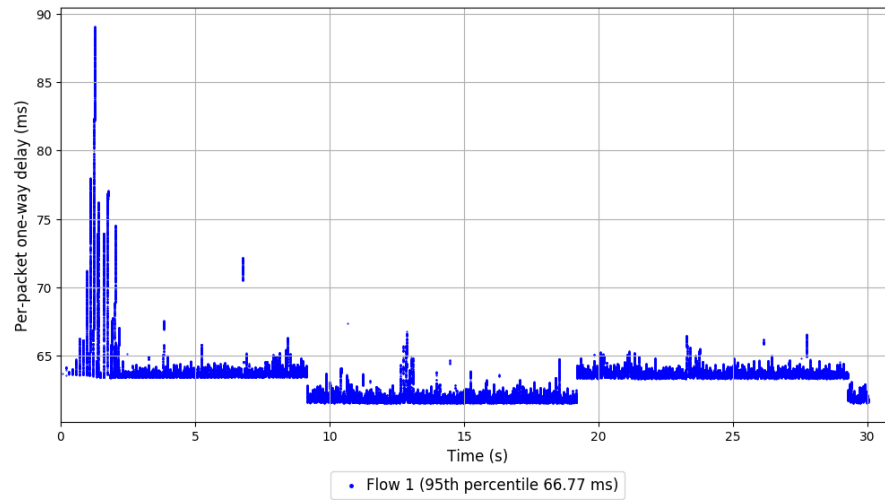
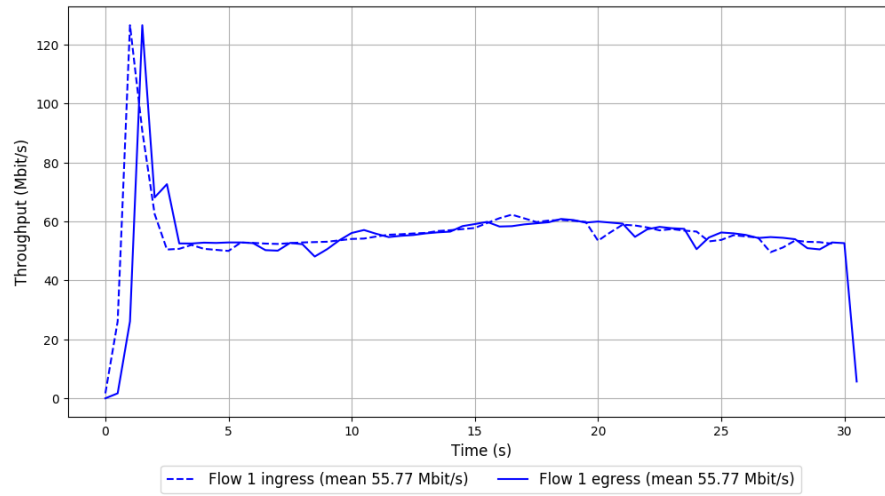
Run 9: Statistics of TCP Vegas

Start at: 2018-06-06 04:04:12  
End at: 2018-06-06 04:04:42  
Local clock offset: -0.044 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 55.77 Mbit/s  
95th percentile per-packet one-way delay: 66.774 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 55.77 Mbit/s  
95th percentile per-packet one-way delay: 66.774 ms  
Loss rate: 0.00%



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

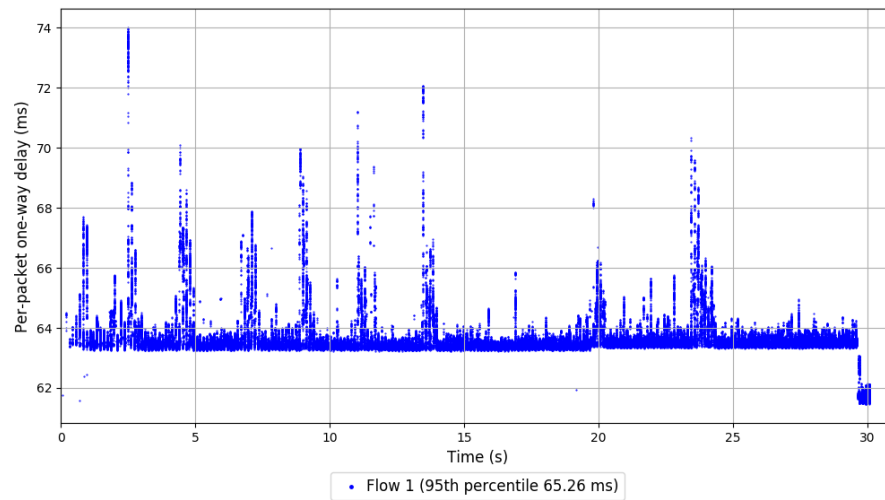
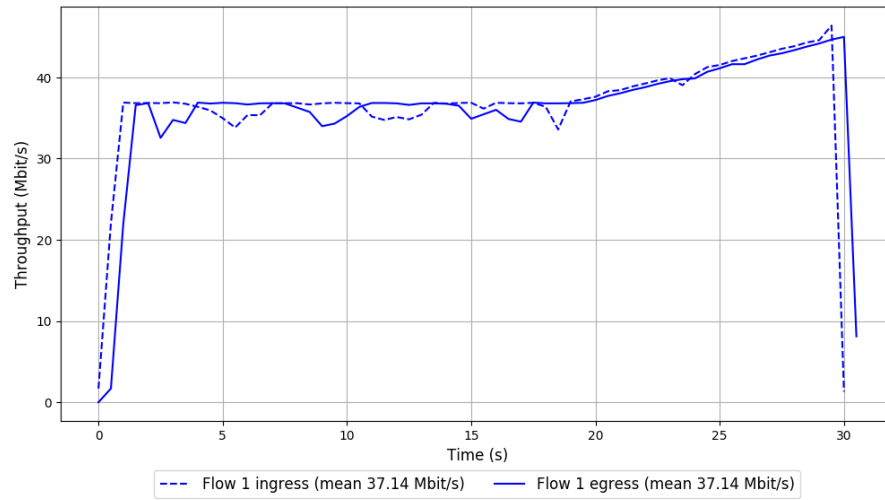


Run 10: Statistics of TCP Vegas

Start at: 2018-06-06 04:24:11  
End at: 2018-06-06 04:24:41  
Local clock offset: -0.063 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2018-06-06 05:48:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 37.14 Mbit/s  
95th percentile per-packet one-way delay: 65.258 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 37.14 Mbit/s  
95th percentile per-packet one-way delay: 65.258 ms  
Loss rate: 0.00%

# Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-06-06 01:30:53

End at: 2018-06-06 01:31:24

Local clock offset: -0.018 ms

Remote clock offset: -0.28 ms

# Below is generated by plot.py at 2018-06-06 05:49:18

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.39 Mbit/s

95th percentile per-packet one-way delay: 113.552 ms

Loss rate: 0.48%

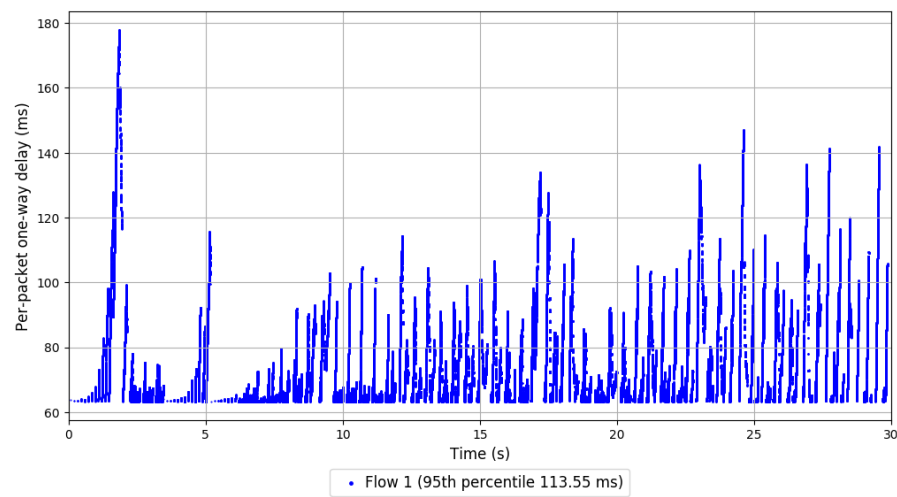
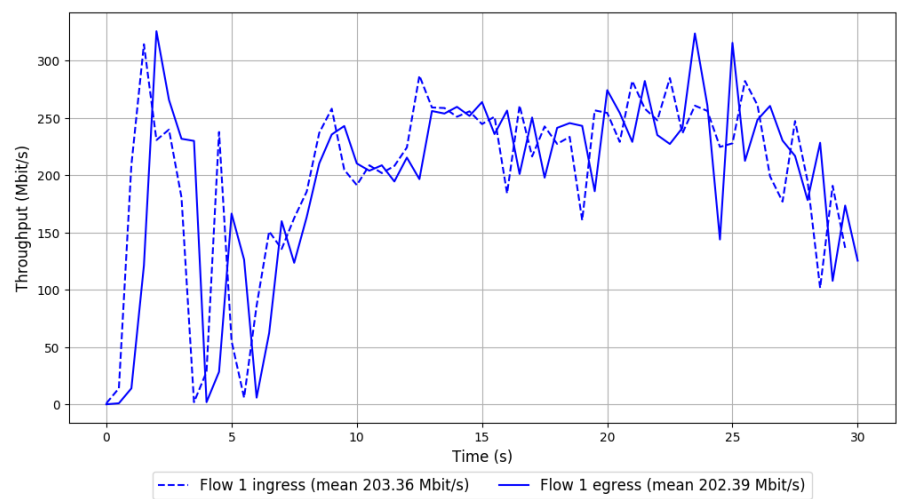
-- Flow 1:

Average throughput: 202.39 Mbit/s

95th percentile per-packet one-way delay: 113.552 ms

Loss rate: 0.48%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-06-06 01:51:00

End at: 2018-06-06 01:51:30

Local clock offset: -0.102 ms

Remote clock offset: 0.049 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 209.02 Mbit/s

95th percentile per-packet one-way delay: 101.330 ms

Loss rate: 0.26%

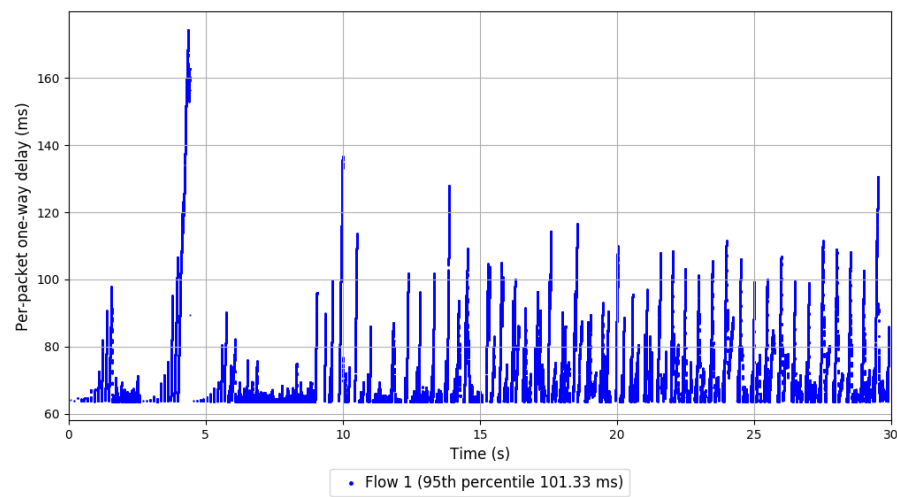
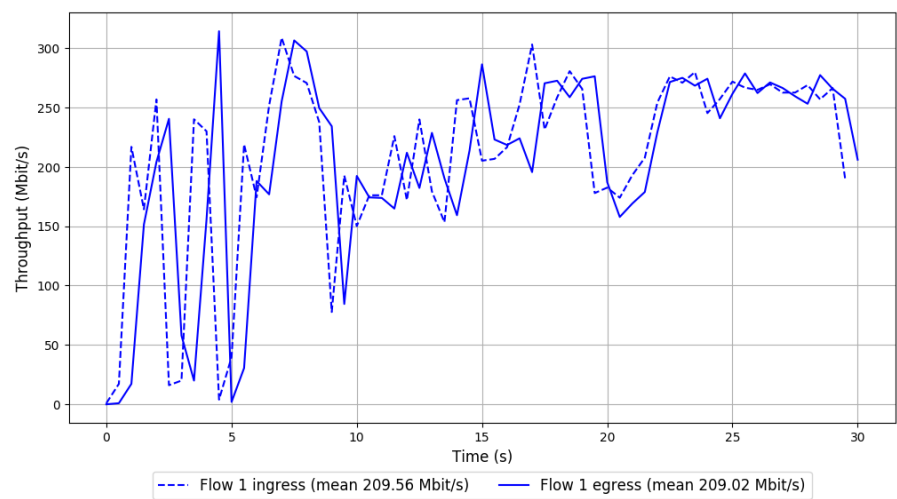
-- Flow 1:

Average throughput: 209.02 Mbit/s

95th percentile per-packet one-way delay: 101.330 ms

Loss rate: 0.26%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2018-06-06 02:11:10

End at: 2018-06-06 02:11:40

Local clock offset: -0.063 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2018-06-06 05:49:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 99.161 ms

Loss rate: 0.08%

-- Flow 1:

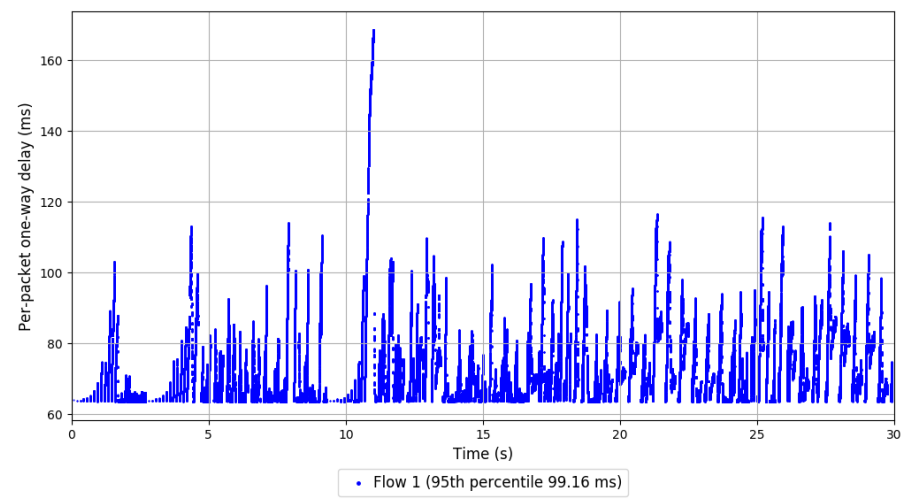
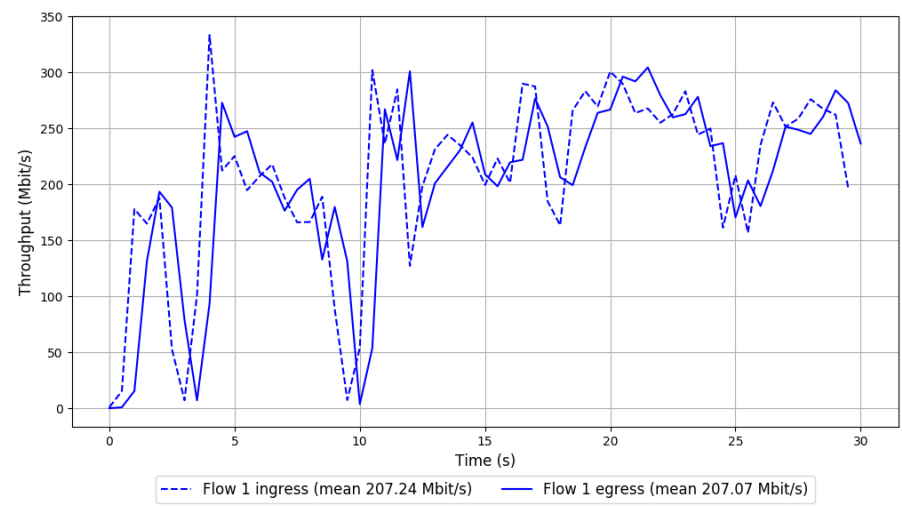
Average throughput: 207.07 Mbit/s

95th percentile per-packet one-way delay: 99.161 ms

Loss rate: 0.08%



Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-06-06 02:31:33

End at: 2018-06-06 02:32:03

Local clock offset: -0.047 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2018-06-06 05:49:43

# Datalink statistics

-- Total of 1 flow:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 104.730 ms

Loss rate: 0.01%

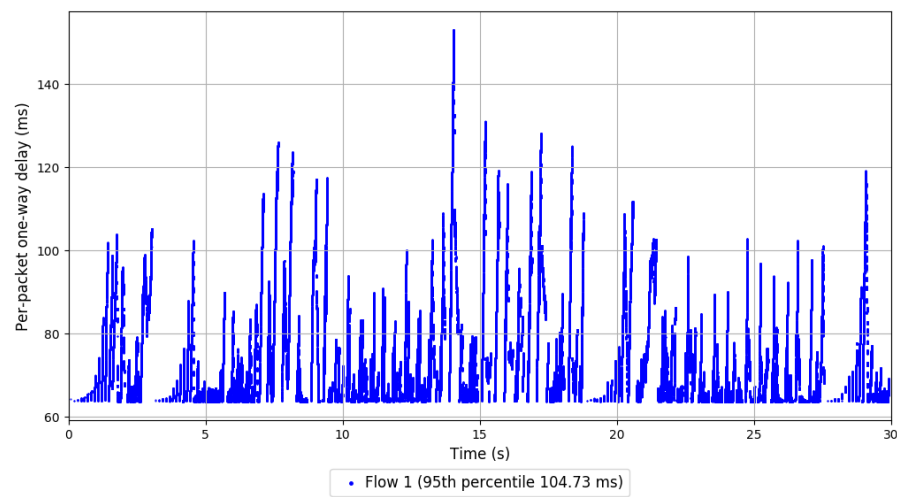
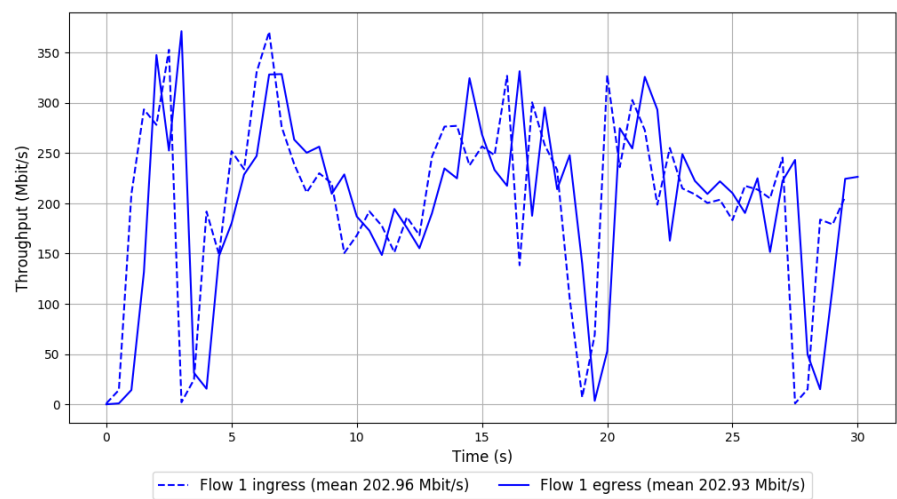
-- Flow 1:

Average throughput: 202.93 Mbit/s

95th percentile per-packet one-way delay: 104.730 ms

Loss rate: 0.01%

Run 4: Report of Verus — Data Link

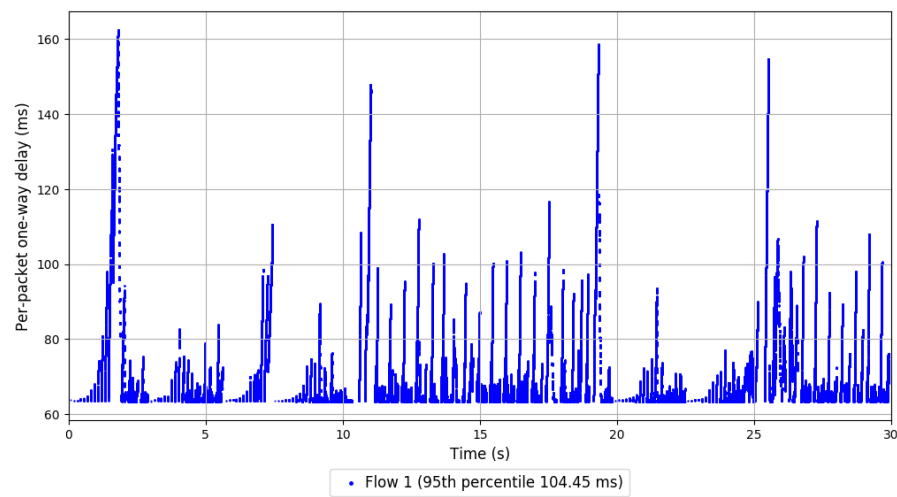
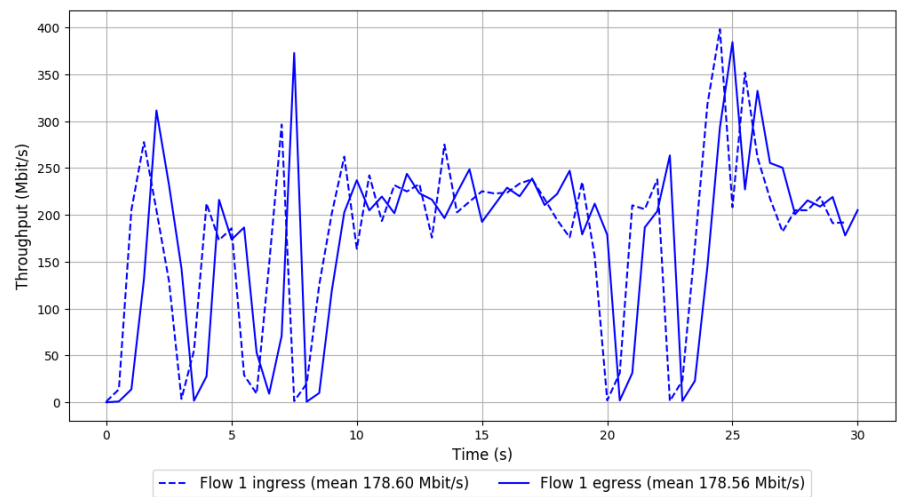


Run 5: Statistics of Verus

Start at: 2018-06-06 02:51:25  
End at: 2018-06-06 02:51:55  
Local clock offset: -0.037 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2018-06-06 05:49:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.56 Mbit/s  
95th percentile per-packet one-way delay: 104.452 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 178.56 Mbit/s  
95th percentile per-packet one-way delay: 104.452 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 6: Statistics of Verus

Start at: 2018-06-06 03:11:16

End at: 2018-06-06 03:11:46

Local clock offset: -0.023 ms

Remote clock offset: 0.119 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 214.32 Mbit/s

95th percentile per-packet one-way delay: 163.007 ms

Loss rate: 0.02%

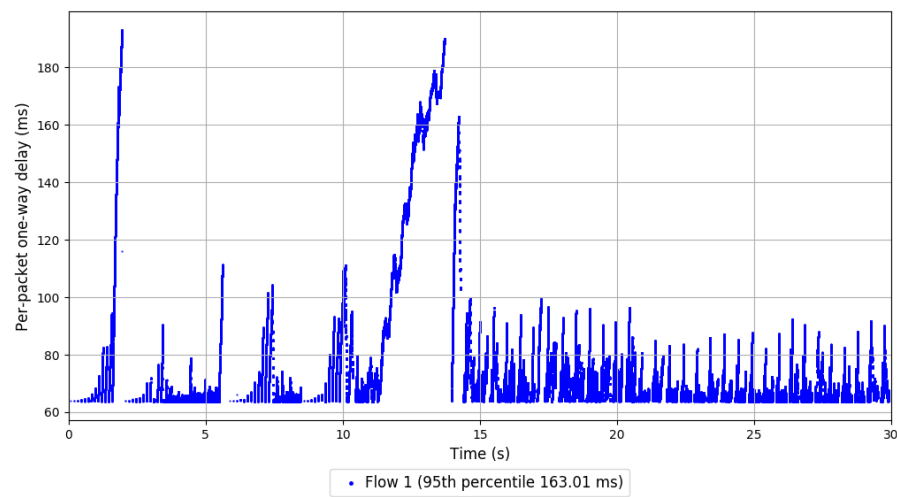
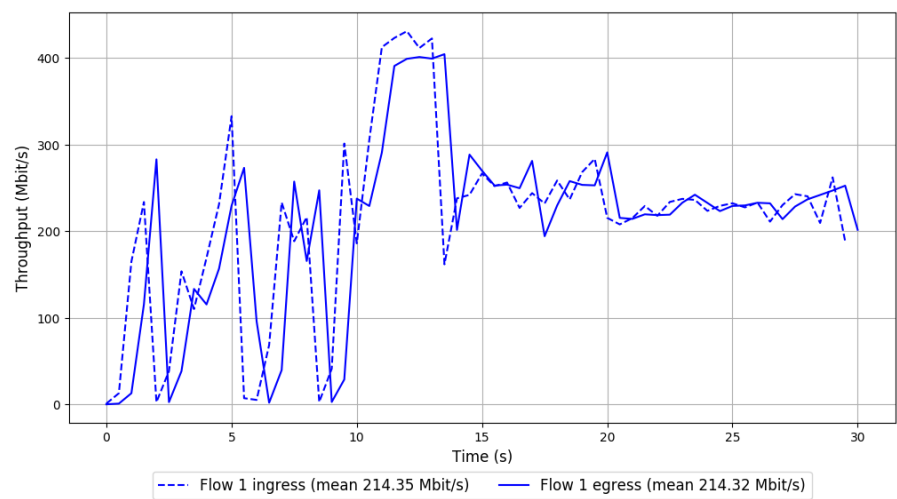
-- Flow 1:

Average throughput: 214.32 Mbit/s

95th percentile per-packet one-way delay: 163.007 ms

Loss rate: 0.02%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-06-06 03:31:18

End at: 2018-06-06 03:31:48

Local clock offset: -0.001 ms

Remote clock offset: 0.166 ms

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

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.54 Mbit/s

95th percentile per-packet one-way delay: 102.804 ms

Loss rate: 0.07%

-- Flow 1:

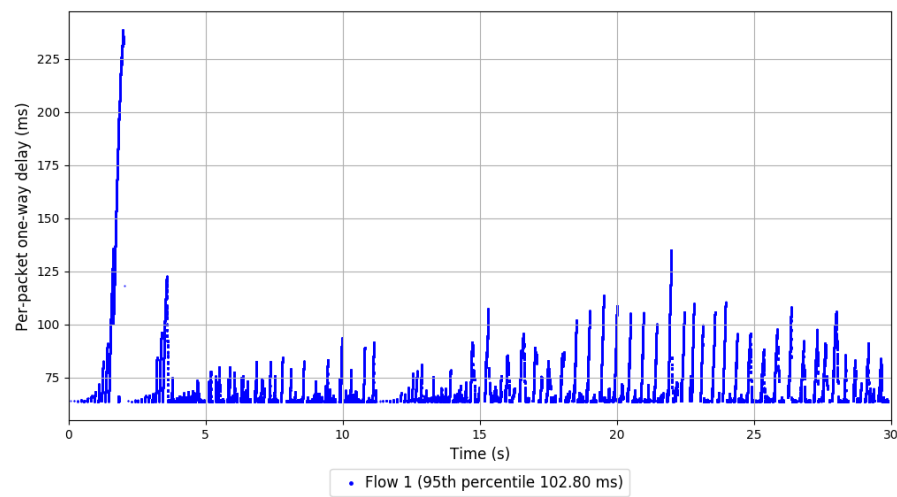
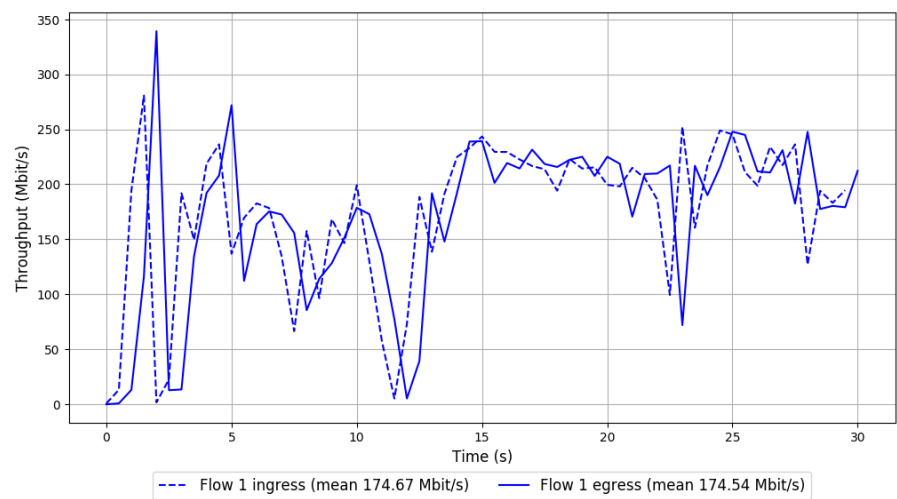
Average throughput: 174.54 Mbit/s

95th percentile per-packet one-way delay: 102.804 ms

Loss rate: 0.07%



Run 7: Report of Verus — Data Link

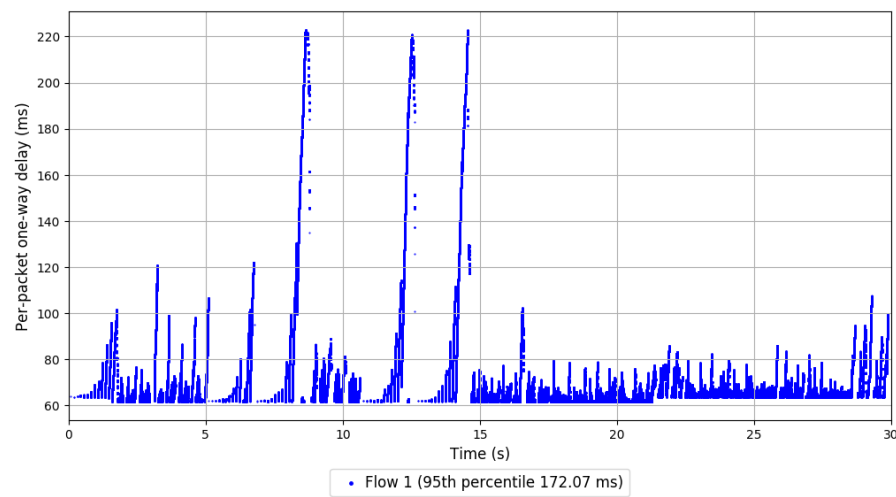
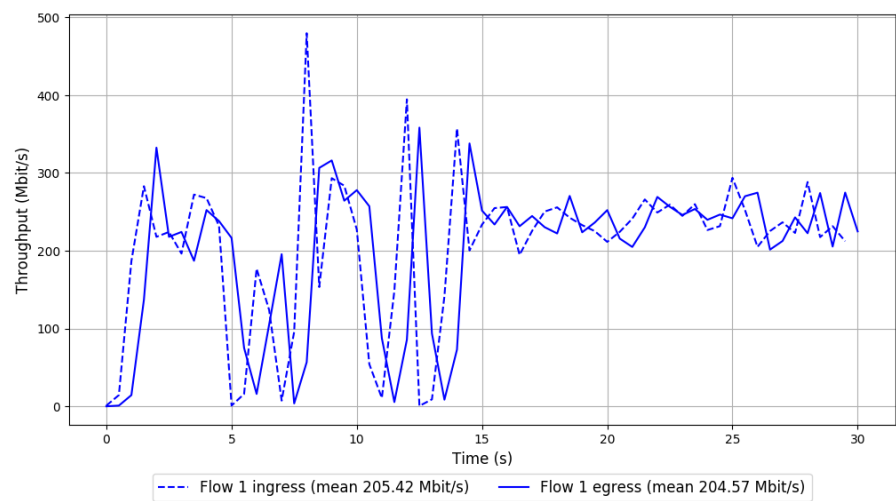


Run 8: Statistics of Verus

Start at: 2018-06-06 03:51:29  
End at: 2018-06-06 03:51:59  
Local clock offset: -0.047 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2018-06-06 05:51:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 204.57 Mbit/s  
95th percentile per-packet one-way delay: 172.069 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 204.57 Mbit/s  
95th percentile per-packet one-way delay: 172.069 ms  
Loss rate: 0.29%

Run 8: Report of Verus — Data Link

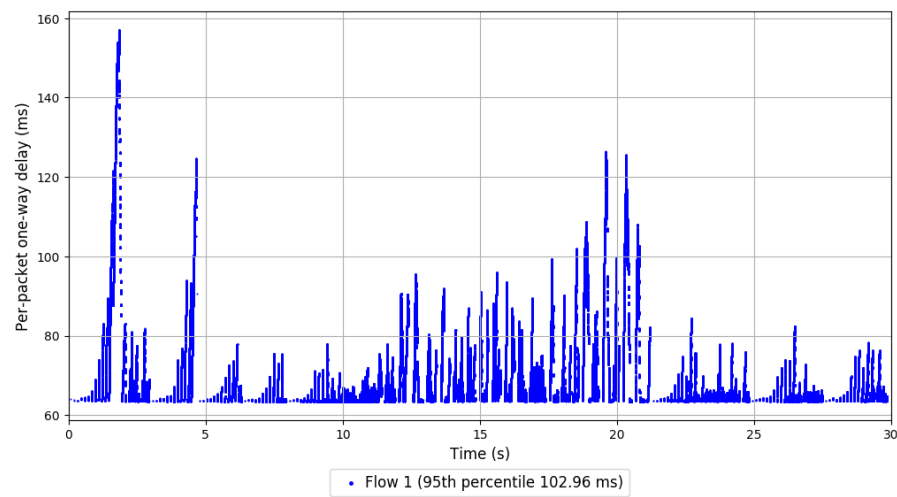
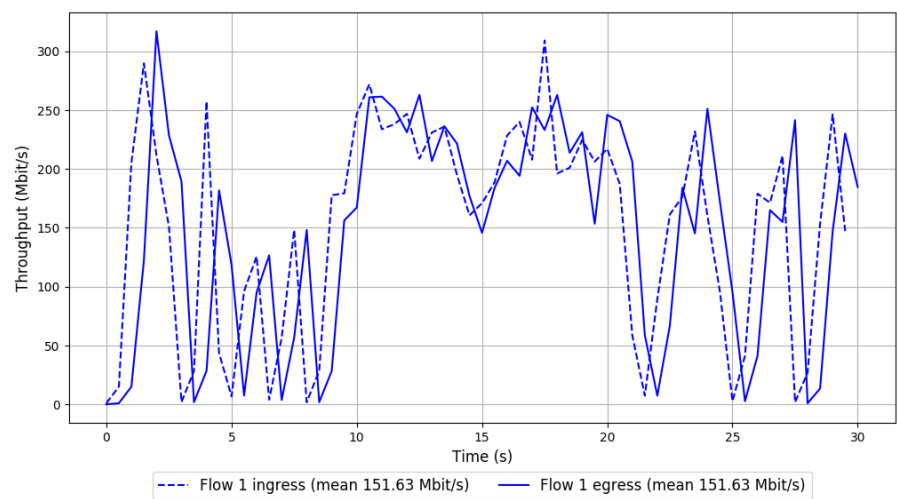


Run 9: Statistics of Verus

Start at: 2018-06-06 04:11:37  
End at: 2018-06-06 04:12:08  
Local clock offset: -0.029 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2018-06-06 05:51:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 151.63 Mbit/s  
95th percentile per-packet one-way delay: 102.963 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 151.63 Mbit/s  
95th percentile per-packet one-way delay: 102.963 ms  
Loss rate: 0.00%

Run 9: Report of Verus — Data Link

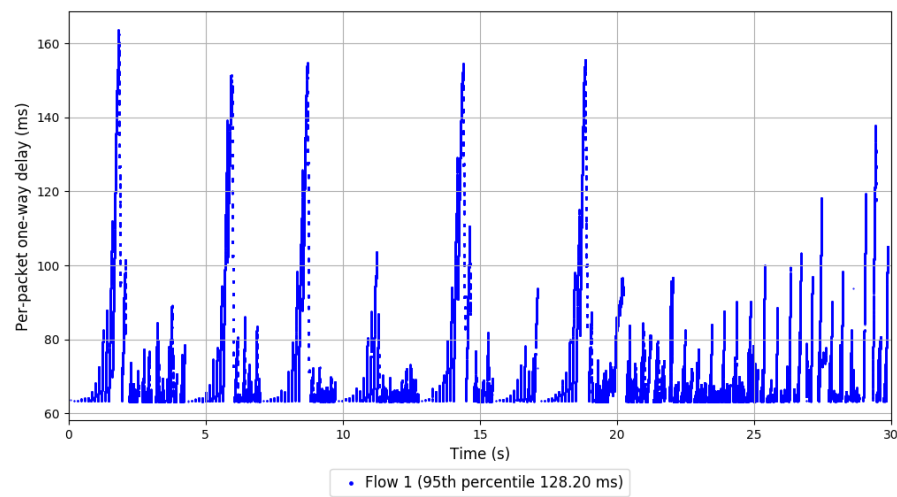
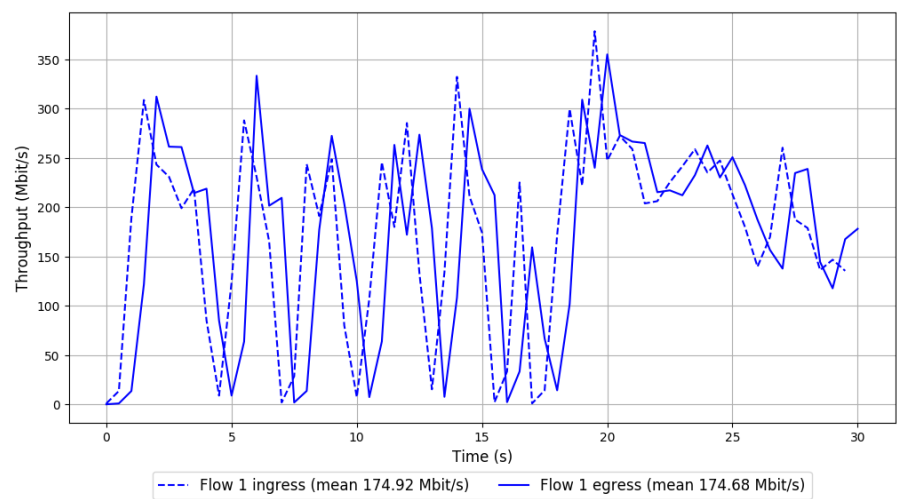


Run 10: Statistics of Verus

Start at: 2018-06-06 04:31:46  
End at: 2018-06-06 04:32:16  
Local clock offset: -0.061 ms  
Remote clock offset: -0.361 ms

# Below is generated by plot.py at 2018-06-06 05:51:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 174.68 Mbit/s  
95th percentile per-packet one-way delay: 128.204 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 174.68 Mbit/s  
95th percentile per-packet one-way delay: 128.204 ms  
Loss rate: 0.00%

Run 10: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2018-06-06 01:15:32

End at: 2018-06-06 01:16:02

Local clock offset: 0.035 ms

Remote clock offset: 0.037 ms

# Below is generated by plot.py at 2018-06-06 05:54:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 292.79 Mbit/s

95th percentile per-packet one-way delay: 65.710 ms

Loss rate: 0.00%

-- Flow 1:

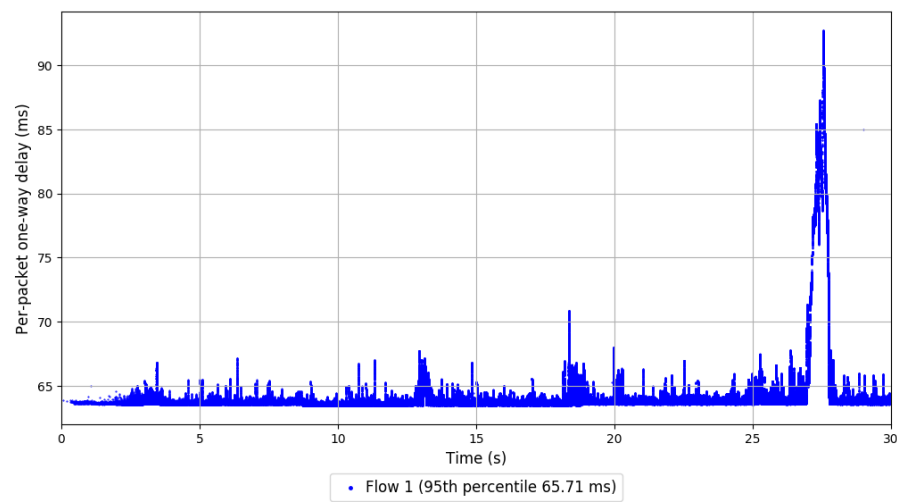
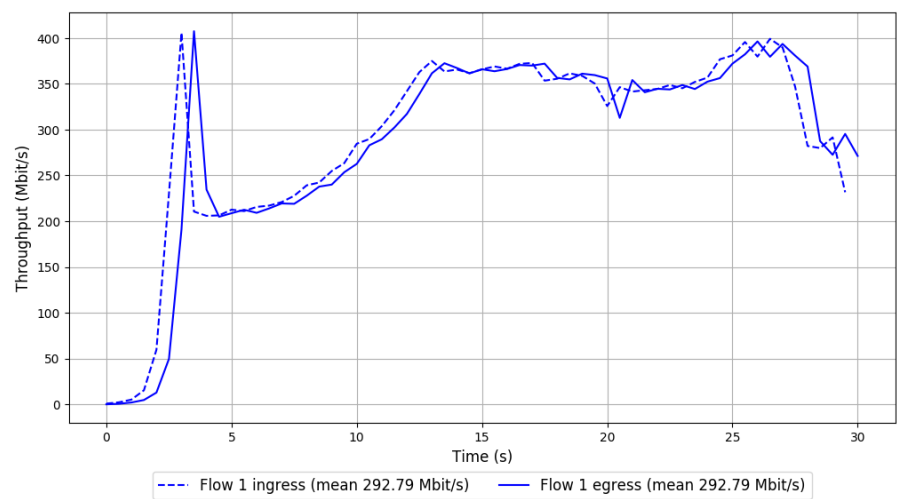
Average throughput: 292.79 Mbit/s

95th percentile per-packet one-way delay: 65.710 ms

Loss rate: 0.00%



Run 1: Report of PCC-Vivace — Data Link

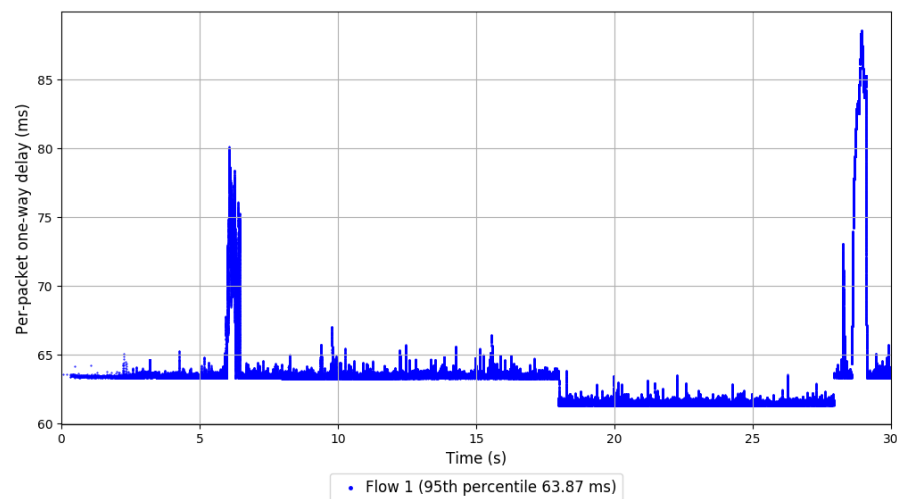
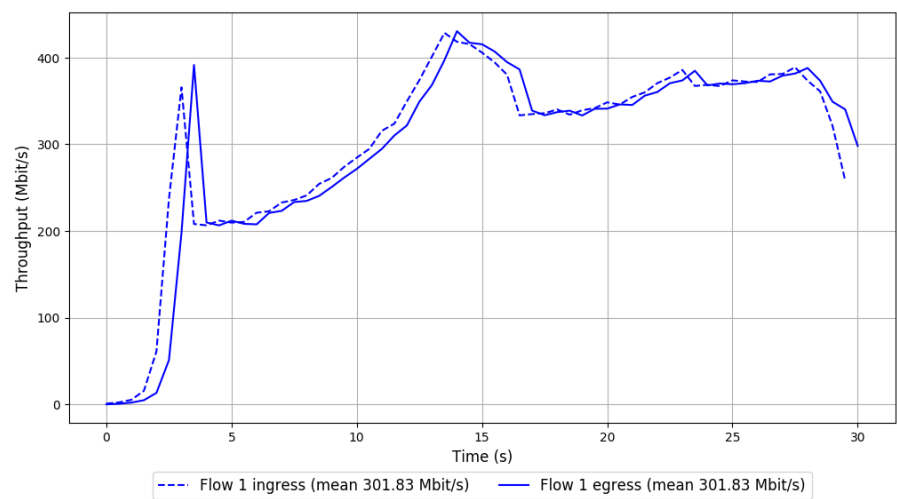


Run 2: Statistics of PCC-Vivace

Start at: 2018-06-06 01:35:43  
End at: 2018-06-06 01:36:13  
Local clock offset: -0.028 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2018-06-06 05:54:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 301.83 Mbit/s  
95th percentile per-packet one-way delay: 63.871 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 301.83 Mbit/s  
95th percentile per-packet one-way delay: 63.871 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

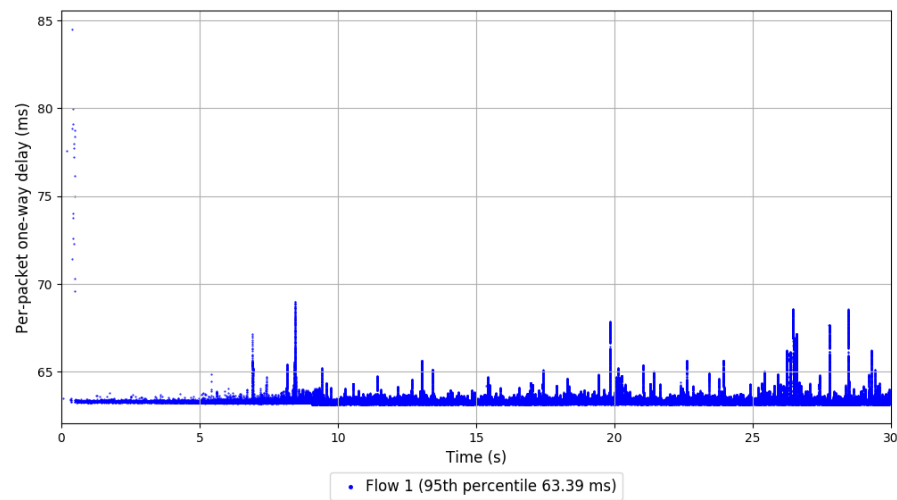
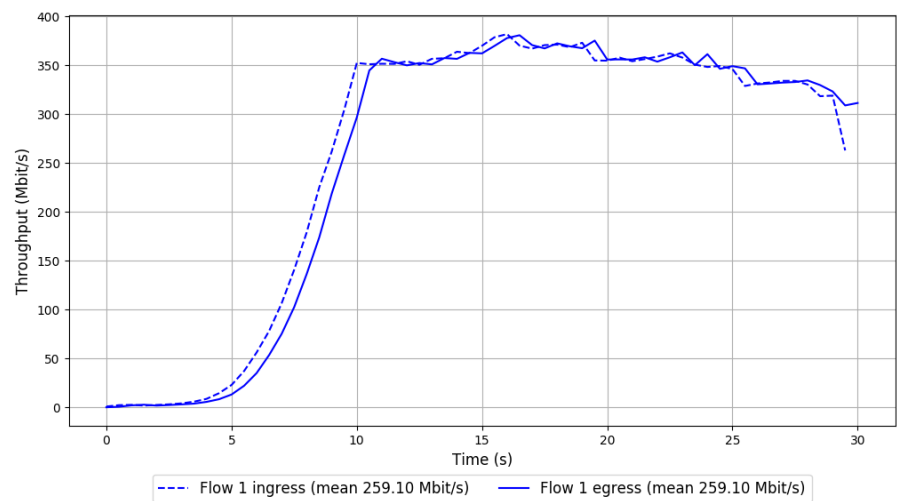


Run 3: Statistics of PCC-Vivace

Start at: 2018-06-06 01:55:51  
End at: 2018-06-06 01:56:21  
Local clock offset: -0.083 ms  
Remote clock offset: -0.222 ms

# Below is generated by plot.py at 2018-06-06 05:54:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 259.10 Mbit/s  
95th percentile per-packet one-way delay: 63.386 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 259.10 Mbit/s  
95th percentile per-packet one-way delay: 63.386 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

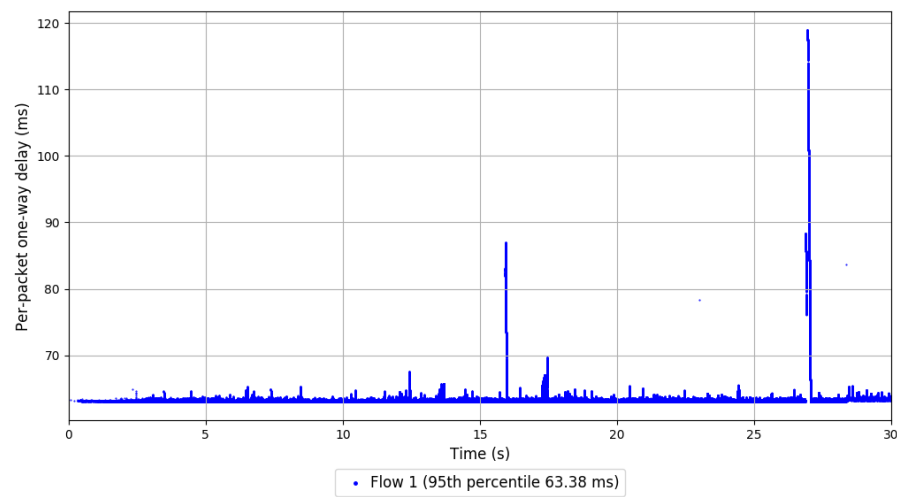
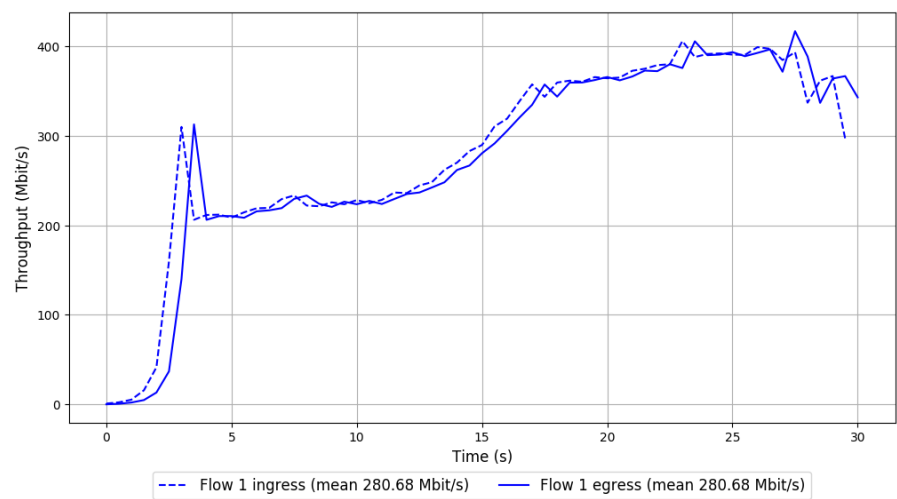


Run 4: Statistics of PCC-Vivace

Start at: 2018-06-06 02:16:02  
End at: 2018-06-06 02:16:32  
Local clock offset: -0.065 ms  
Remote clock offset: -0.211 ms

# Below is generated by plot.py at 2018-06-06 05:54:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 280.68 Mbit/s  
95th percentile per-packet one-way delay: 63.382 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 280.68 Mbit/s  
95th percentile per-packet one-way delay: 63.382 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2018-06-06 02:36:23

End at: 2018-06-06 02:36:53

Local clock offset: -0.064 ms

Remote clock offset: -0.17 ms

# Below is generated by plot.py at 2018-06-06 05:55:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 320.26 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%

-- Flow 1:

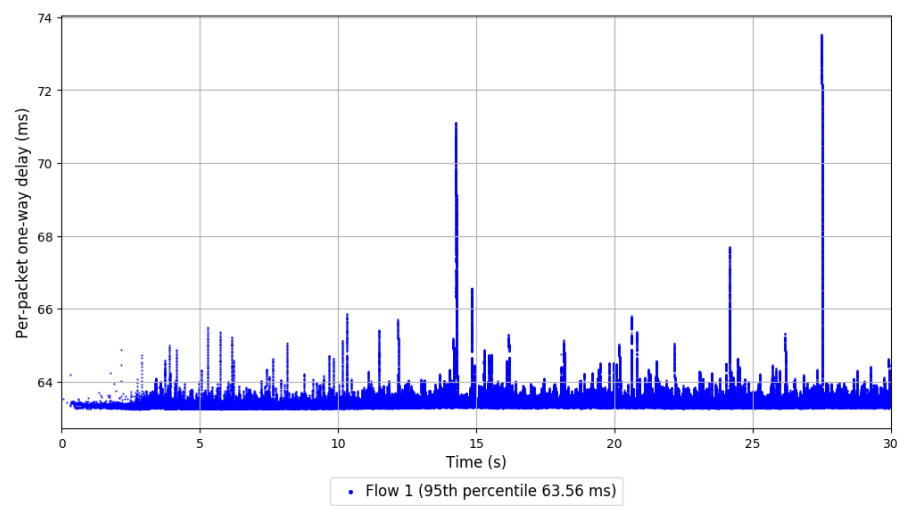
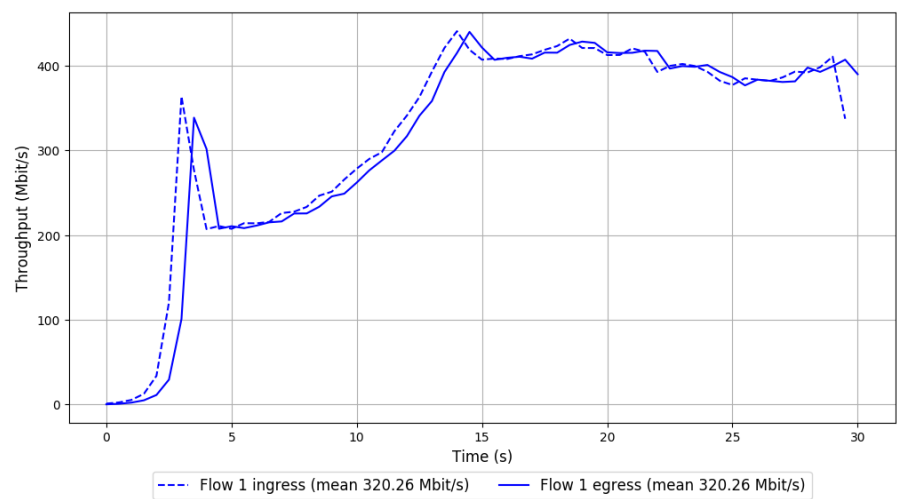
Average throughput: 320.26 Mbit/s

95th percentile per-packet one-way delay: 63.557 ms

Loss rate: 0.00%



Run 5: Report of PCC-Vivace — Data Link

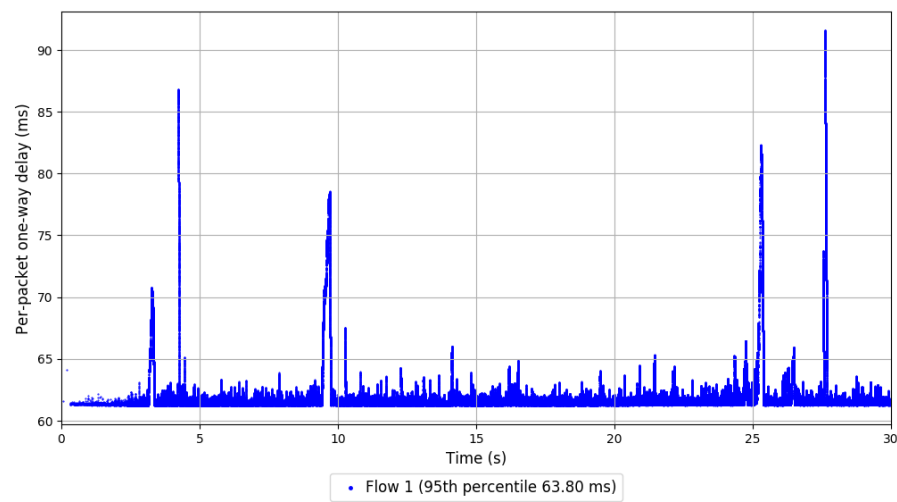
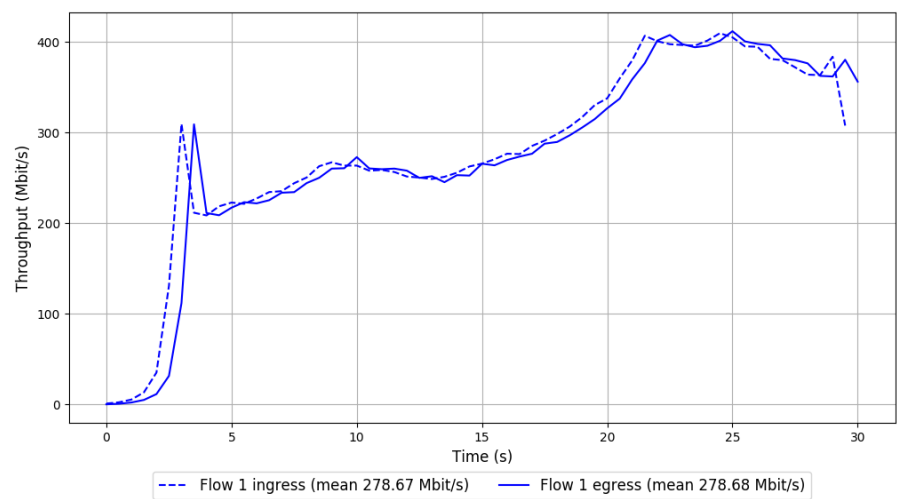


Run 6: Statistics of PCC-Vivace

Start at: 2018-06-06 02:56:14  
End at: 2018-06-06 02:56:44  
Local clock offset: -0.062 ms  
Remote clock offset: -0.281 ms

# Below is generated by plot.py at 2018-06-06 05:56:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 278.68 Mbit/s  
95th percentile per-packet one-way delay: 63.796 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 278.68 Mbit/s  
95th percentile per-packet one-way delay: 63.796 ms  
Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link

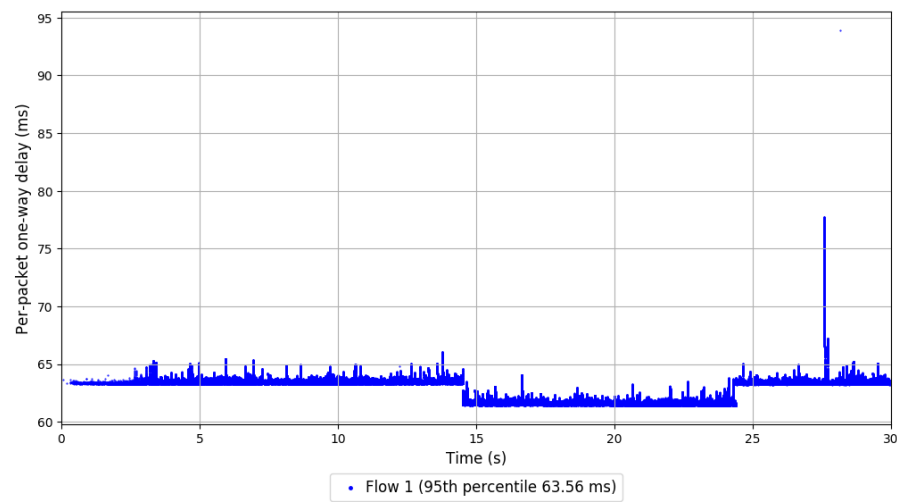
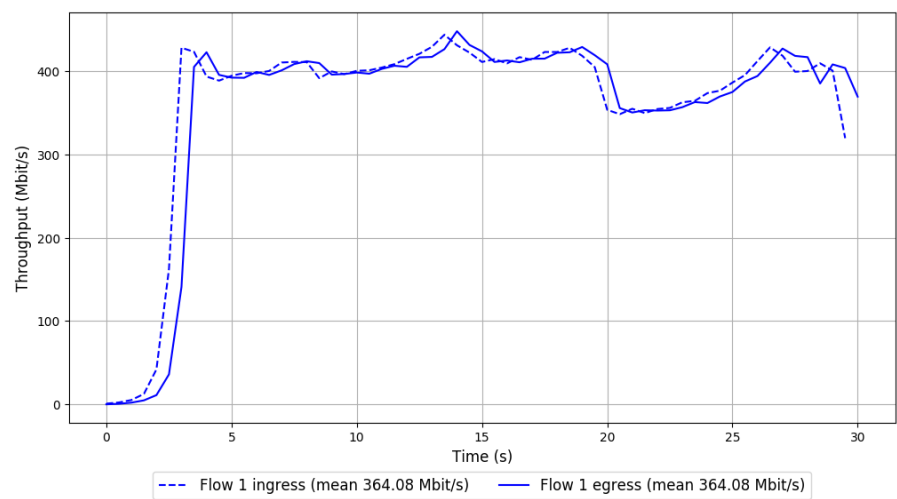


Run 7: Statistics of PCC-Vivace

Start at: 2018-06-06 03:16:06  
End at: 2018-06-06 03:16:36  
Local clock offset: -0.005 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2018-06-06 05:56:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 364.08 Mbit/s  
95th percentile per-packet one-way delay: 63.562 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 364.08 Mbit/s  
95th percentile per-packet one-way delay: 63.562 ms  
Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link



Run 8: Statistics of PCC-Vivace

Start at: 2018-06-06 03:36:07

End at: 2018-06-06 03:36:37

Local clock offset: 0.025 ms

Remote clock offset: 0.344 ms

# Below is generated by plot.py at 2018-06-06 05:56:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 364.90 Mbit/s

95th percentile per-packet one-way delay: 65.511 ms

Loss rate: 0.00%

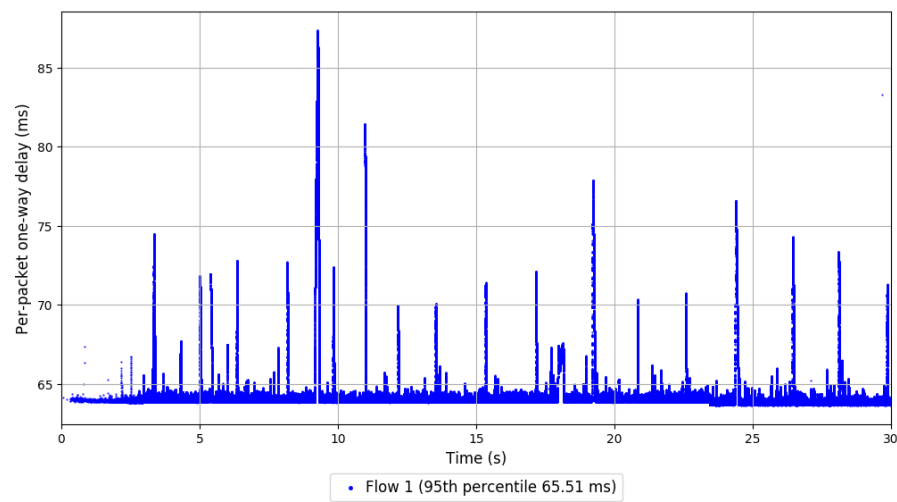
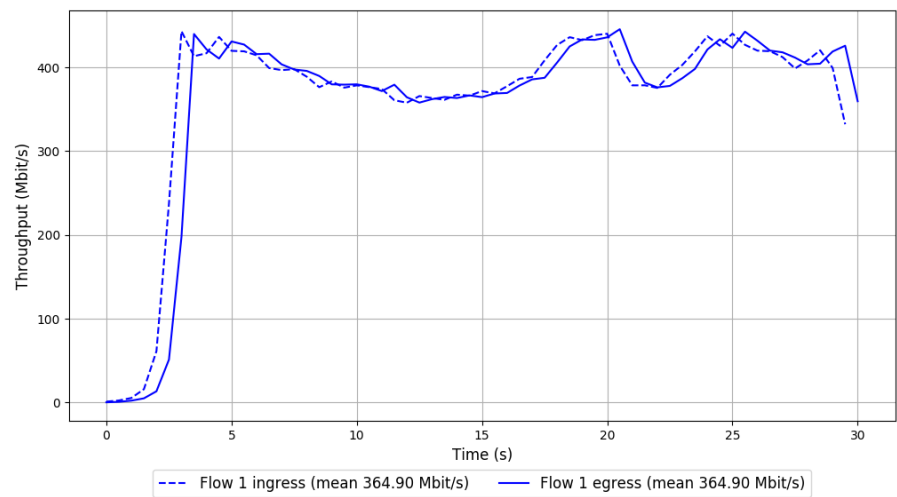
-- Flow 1:

Average throughput: 364.90 Mbit/s

95th percentile per-packet one-way delay: 65.511 ms

Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-06-06 03:56:22

End at: 2018-06-06 03:56:52

Local clock offset: -0.043 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2018-06-06 05:57:25

# Datalink statistics

-- Total of 1 flow:

Average throughput: 366.58 Mbit/s

95th percentile per-packet one-way delay: 67.159 ms

Loss rate: 0.00%

-- Flow 1:

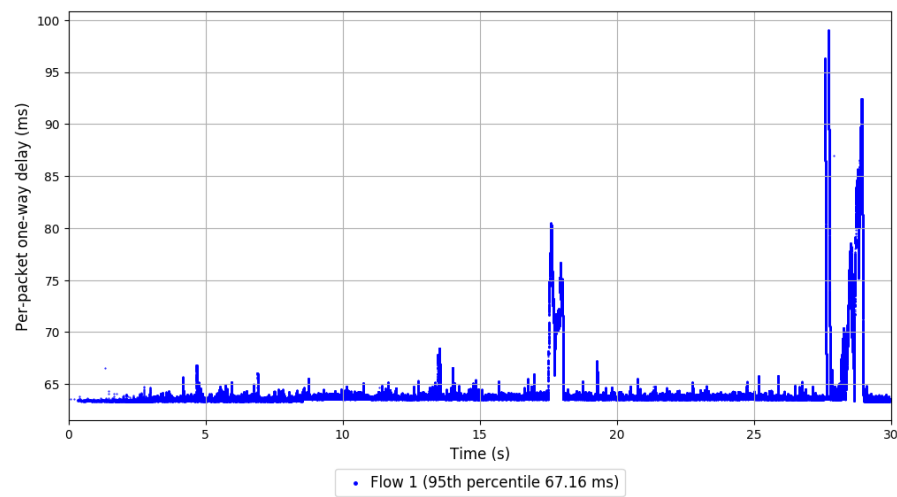
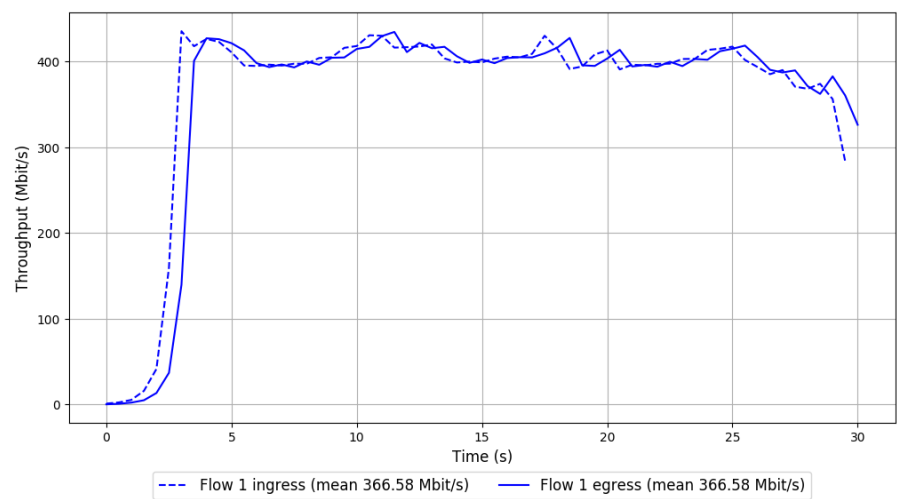
Average throughput: 366.58 Mbit/s

95th percentile per-packet one-way delay: 67.159 ms

Loss rate: 0.00%



Run 9: Report of PCC-Vivace — Data Link

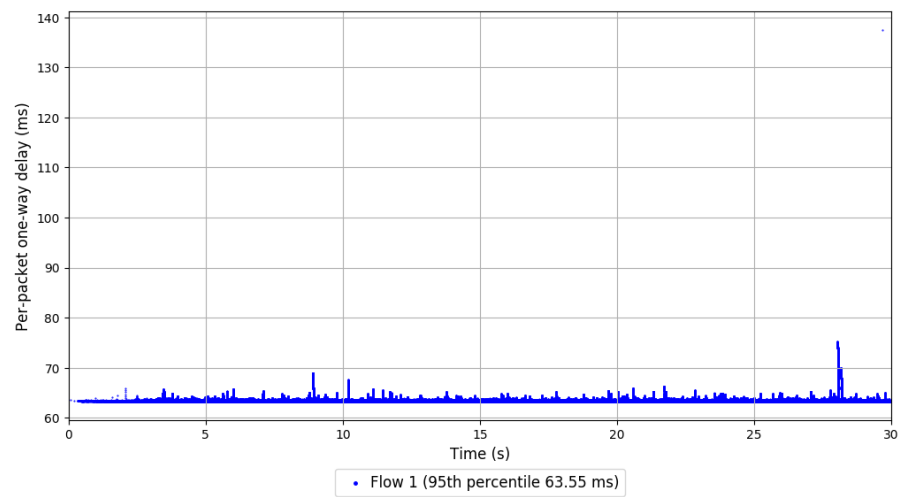
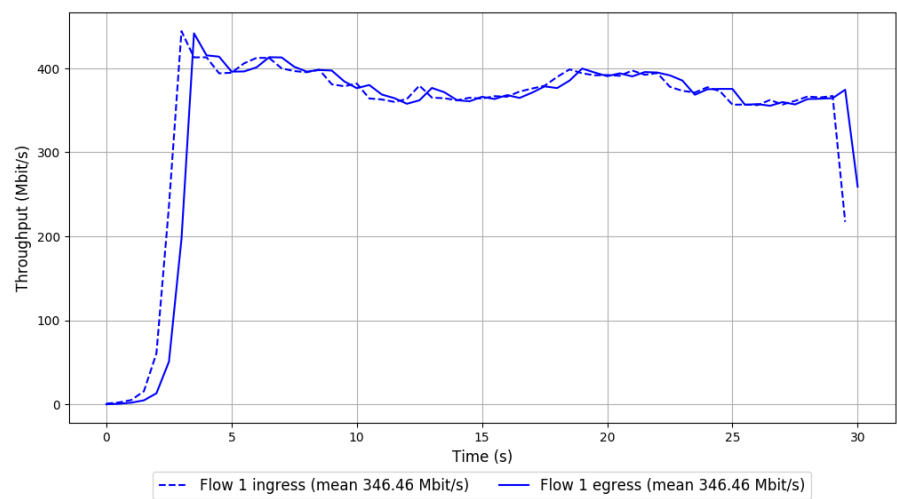


Run 10: Statistics of PCC-Vivace

Start at: 2018-06-06 04:16:25  
End at: 2018-06-06 04:16:55  
Local clock offset: -0.041 ms  
Remote clock offset: -0.195 ms

# Below is generated by plot.py at 2018-06-06 05:57:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 346.46 Mbit/s  
95th percentile per-packet one-way delay: 63.550 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 346.46 Mbit/s  
95th percentile per-packet one-way delay: 63.550 ms  
Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

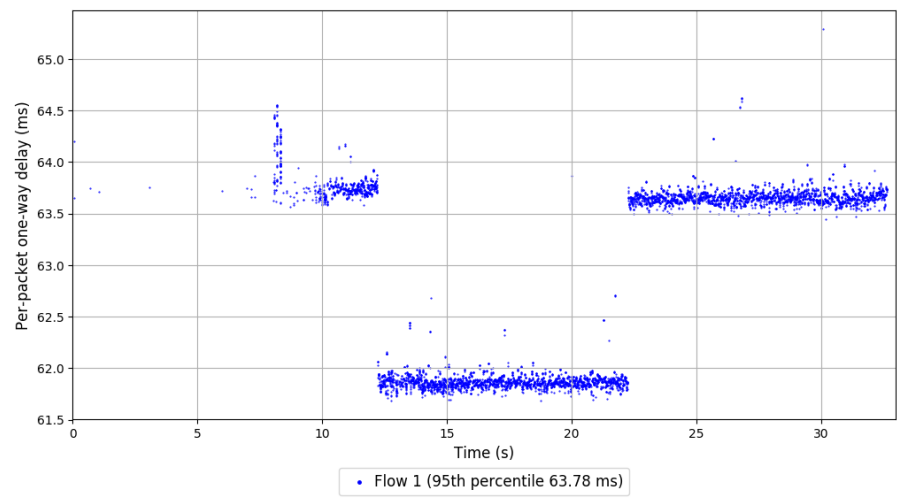
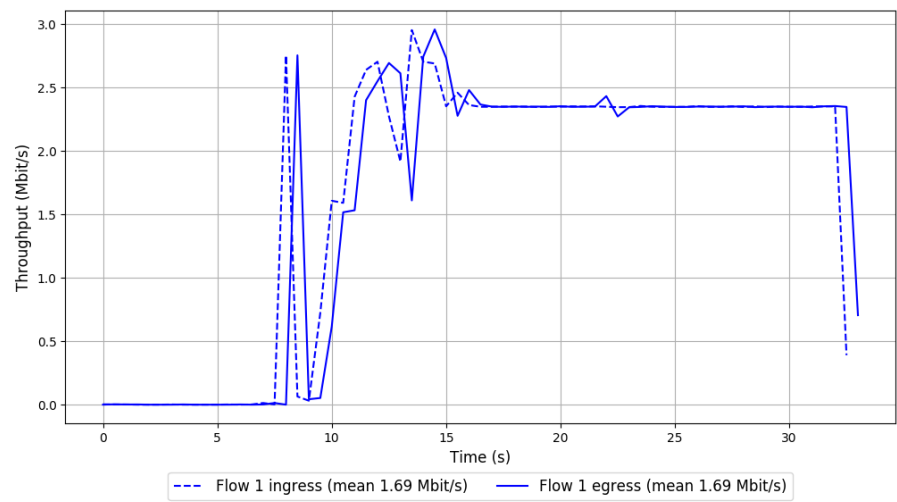


```
Run 1: Statistics of WebRTC media

Start at: 2018-06-06 01:33:31
End at: 2018-06-06 01:34:01
Local clock offset: -0.04 ms
Remote clock offset: 0.093 ms

# Below is generated by plot.py at 2018-06-06 05:57:26
# Datalink statistics
-- Total of 1 flow:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 63.782 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 63.782 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-06-06 01:53:39

End at: 2018-06-06 01:54:09

Local clock offset: -0.066 ms

Remote clock offset: 0.337 ms

# Below is generated by plot.py at 2018-06-06 05:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 64.080 ms

Loss rate: 0.06%

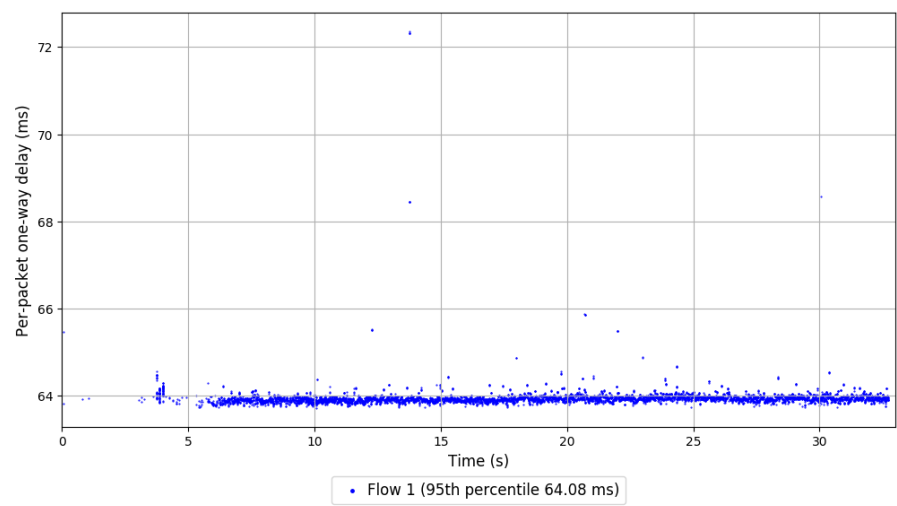
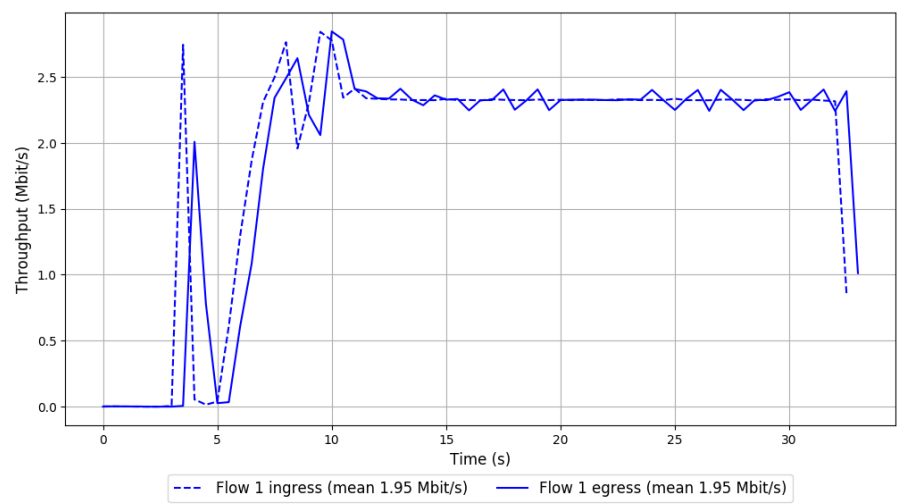
-- Flow 1:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 64.080 ms

Loss rate: 0.06%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2018-06-06 02:13:50

End at: 2018-06-06 02:14:21

Local clock offset: -0.078 ms

Remote clock offset: 0.305 ms

# Below is generated by plot.py at 2018-06-06 05:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.00%

-- Flow 1:

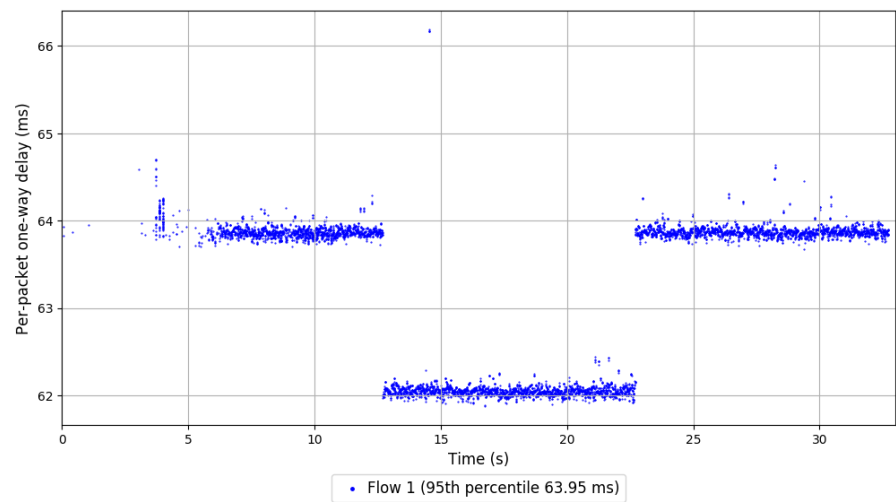
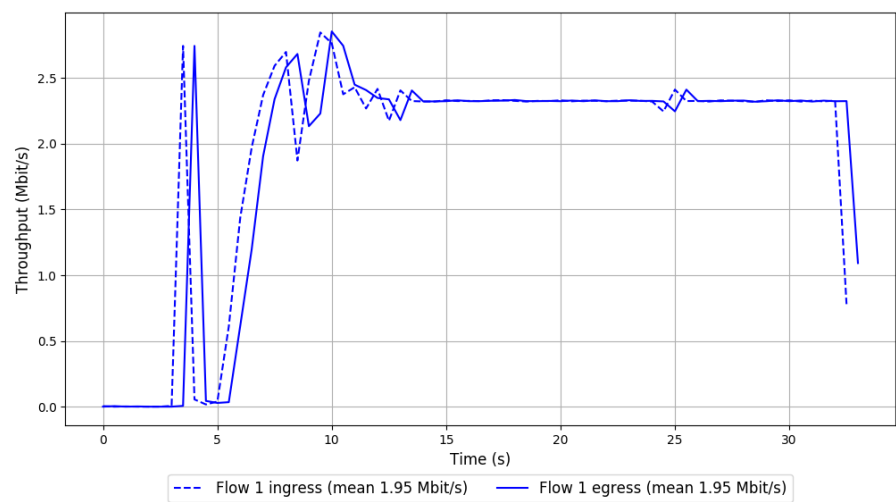
Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 63.954 ms

Loss rate: 0.00%



Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-06-06 02:34:11

End at: 2018-06-06 02:34:41

Local clock offset: -0.046 ms

Remote clock offset: 0.145 ms

# Below is generated by plot.py at 2018-06-06 05:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 63.899 ms

Loss rate: 0.00%

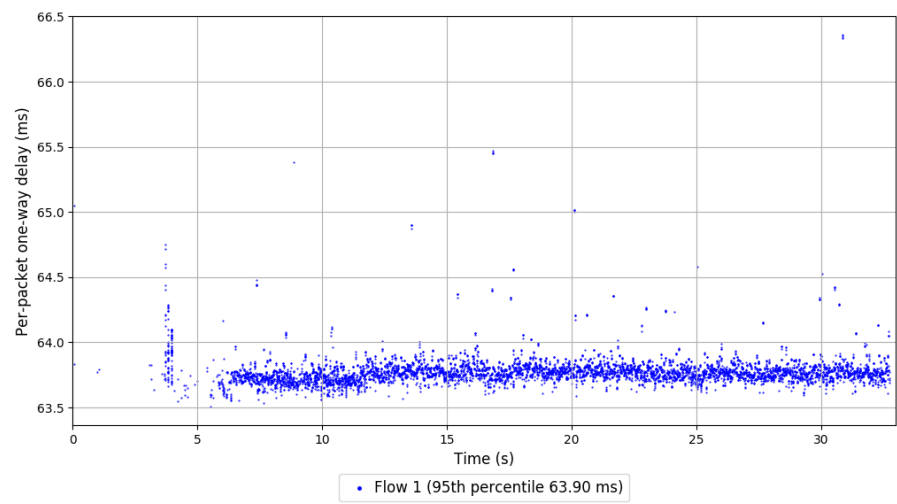
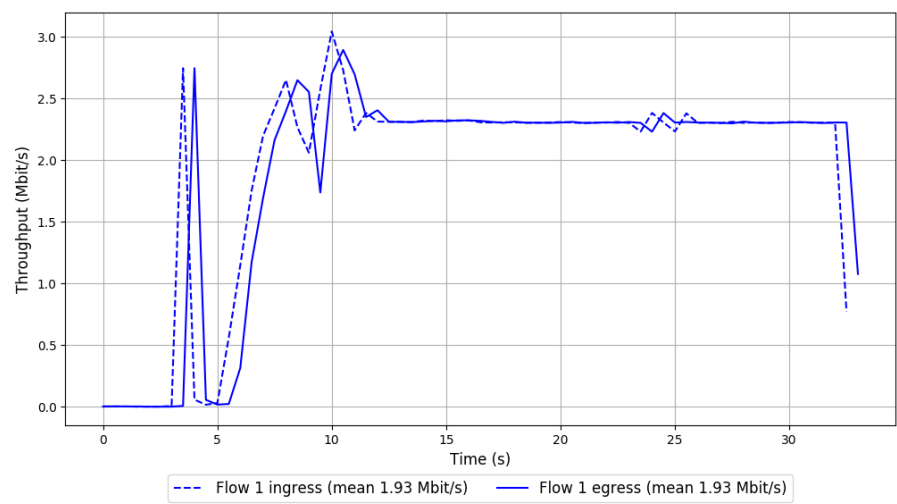
-- Flow 1:

Average throughput: 1.93 Mbit/s

95th percentile per-packet one-way delay: 63.899 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-06-06 02:54:02

End at: 2018-06-06 02:54:32

Local clock offset: -0.001 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2018-06-06 05:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 63.746 ms

Loss rate: 0.00%

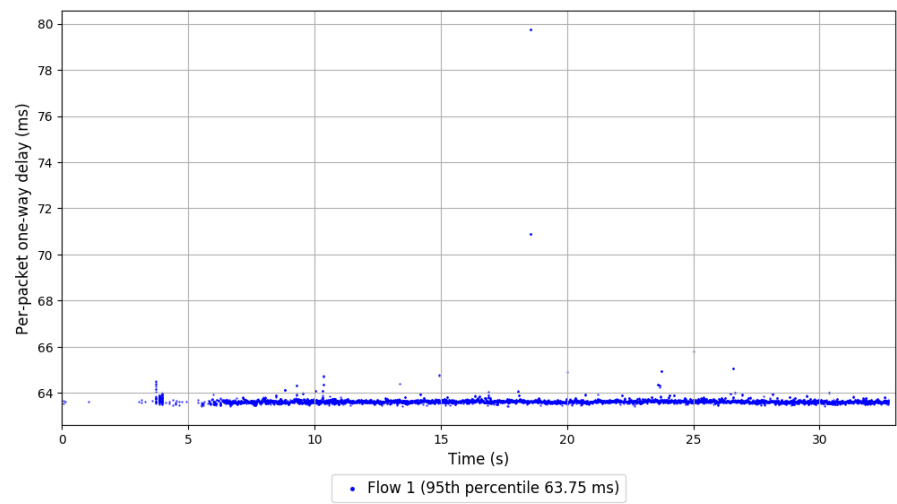
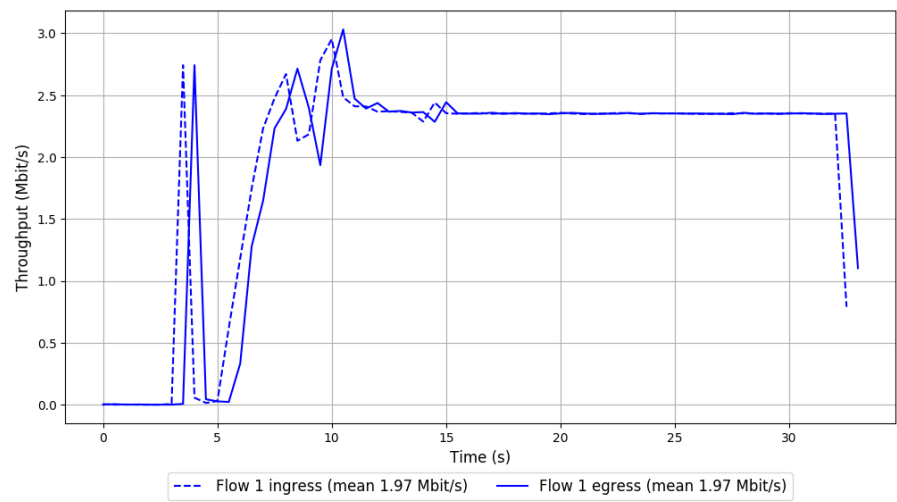
-- Flow 1:

Average throughput: 1.97 Mbit/s

95th percentile per-packet one-way delay: 63.746 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

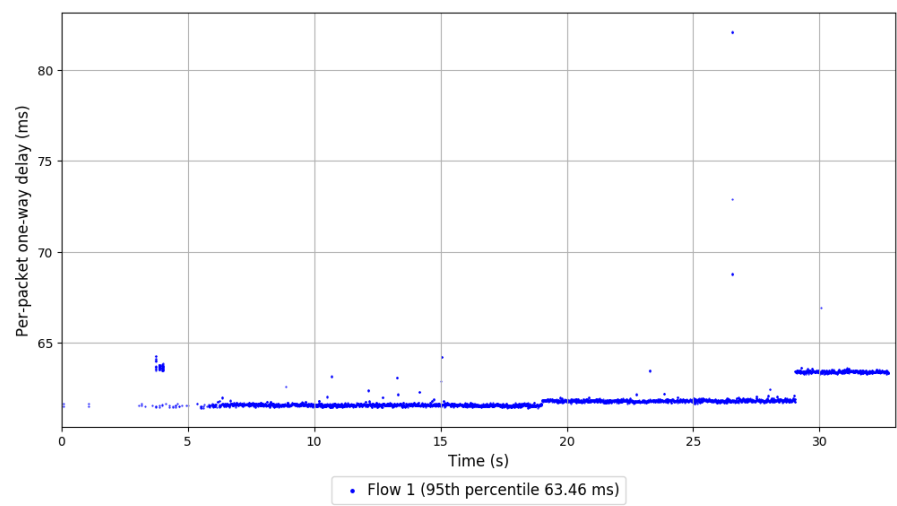
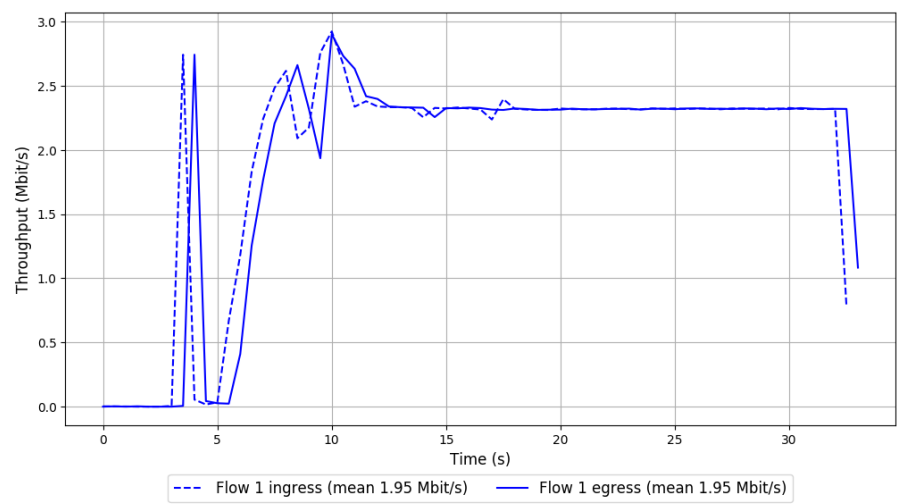


Run 6: Statistics of WebRTC media

Start at: 2018-06-06 03:13:54  
End at: 2018-06-06 03:14:24  
Local clock offset: -0.016 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2018-06-06 05:57:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 63.463 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 63.463 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link



Run 7: Statistics of WebRTC media

Start at: 2018-06-06 03:33:55

End at: 2018-06-06 03:34:25

Local clock offset: -0.032 ms

Remote clock offset: 0.375 ms

# Below is generated by plot.py at 2018-06-06 05:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 0.00%

-- Flow 1:

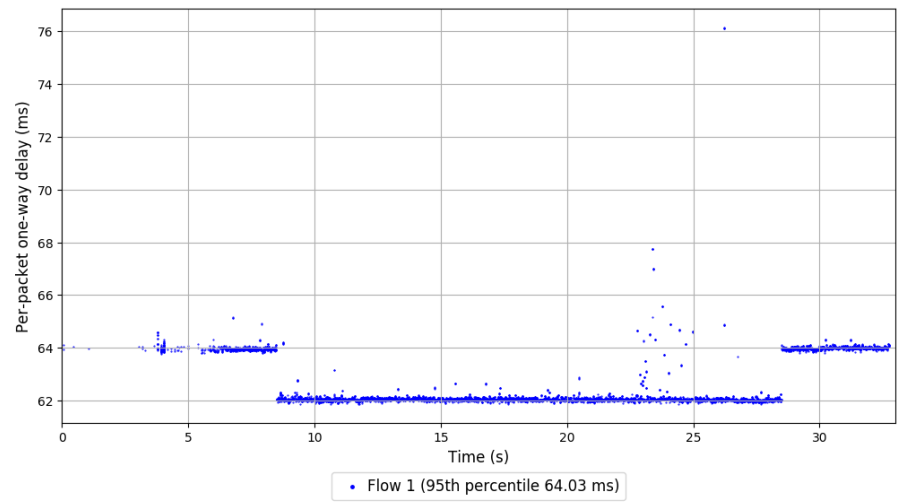
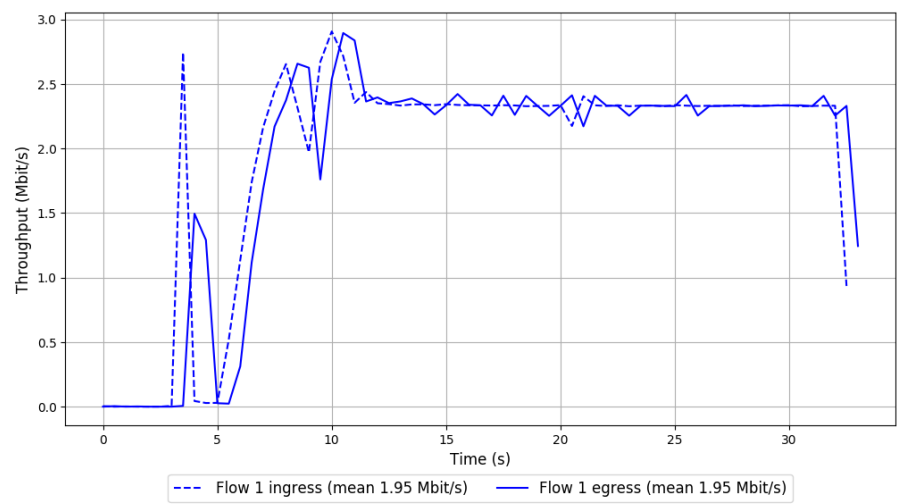
Average throughput: 1.95 Mbit/s

95th percentile per-packet one-way delay: 64.034 ms

Loss rate: 0.00%



Run 7: Report of WebRTC media — Data Link

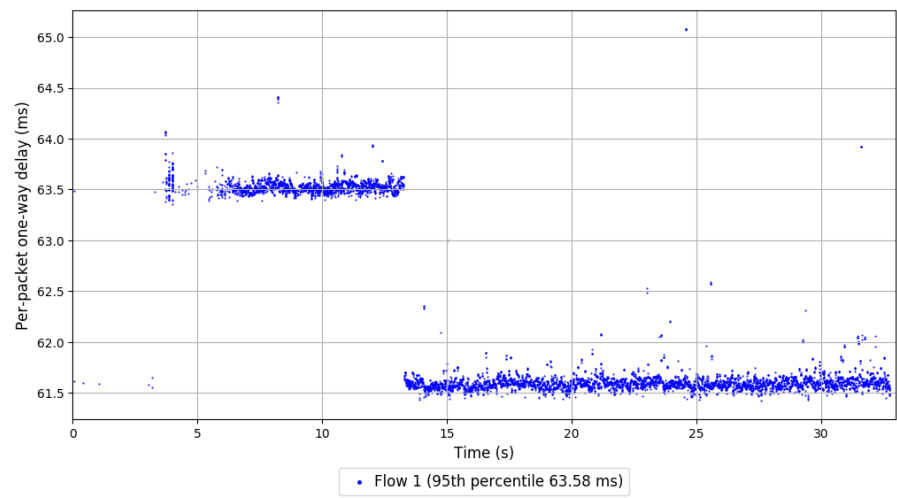
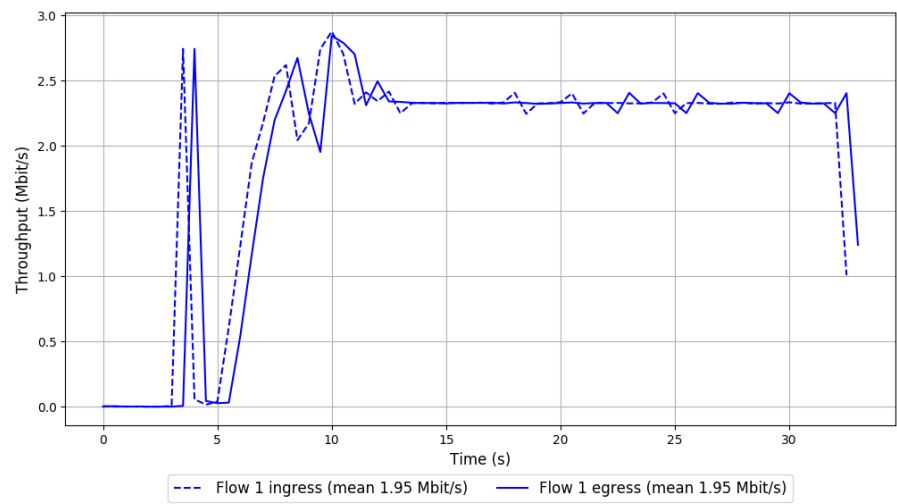


Run 8: Statistics of WebRTC media

Start at: 2018-06-06 03:54:10  
End at: 2018-06-06 03:54:40  
Local clock offset: 0.016 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2018-06-06 05:57:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 63.579 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.95 Mbit/s  
95th percentile per-packet one-way delay: 63.579 ms  
Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

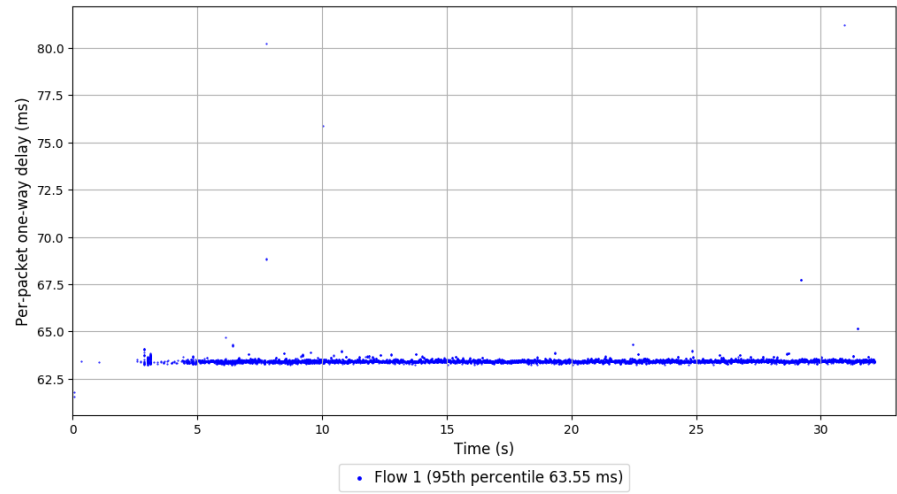
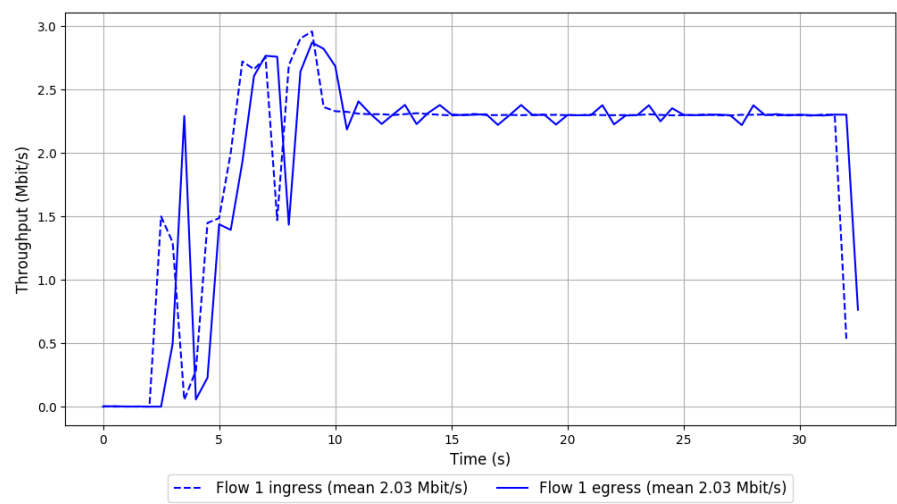


Run 9: Statistics of WebRTC media

Start at: 2018-06-06 04:14:13  
End at: 2018-06-06 04:14:43  
Local clock offset: -0.059 ms  
Remote clock offset: -0.481 ms

# Below is generated by plot.py at 2018-06-06 05:57:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 63.553 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.03 Mbit/s  
95th percentile per-packet one-way delay: 63.553 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-06-06 04:34:21

End at: 2018-06-06 04:34:51

Local clock offset: -0.06 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2018-06-06 05:57:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 63.889 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 2.12 Mbit/s

95th percentile per-packet one-way delay: 63.889 ms

Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

