

## Pantheon Report

Generated at 2019-01-18 09:16:13 (UTC).

Data path: GCE London on *ens4 (local)* → GCE Iowa on *ens4 (remote)*.

Repeated the test of 21 congestion control schemes 5 times.

Each test lasted for 30 seconds running 1 flow.

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

### System info:

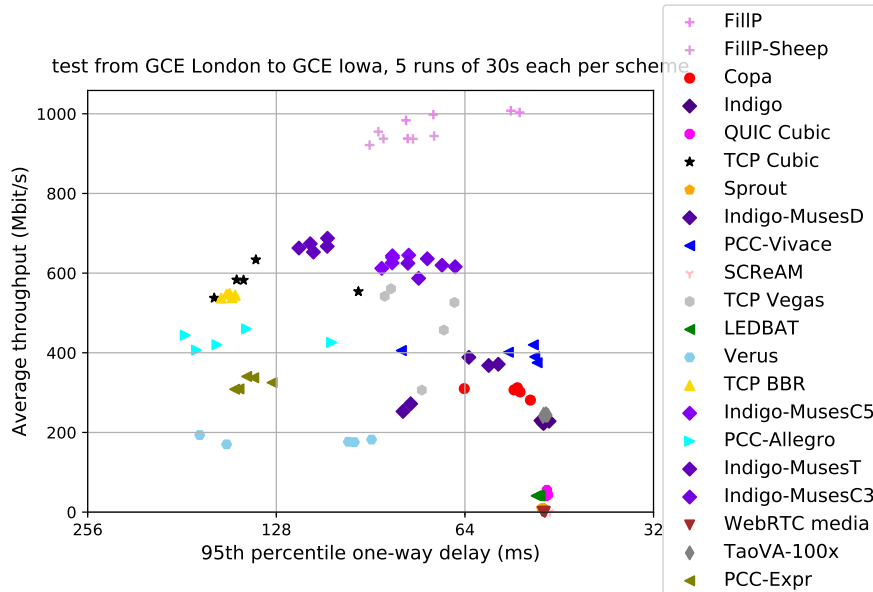
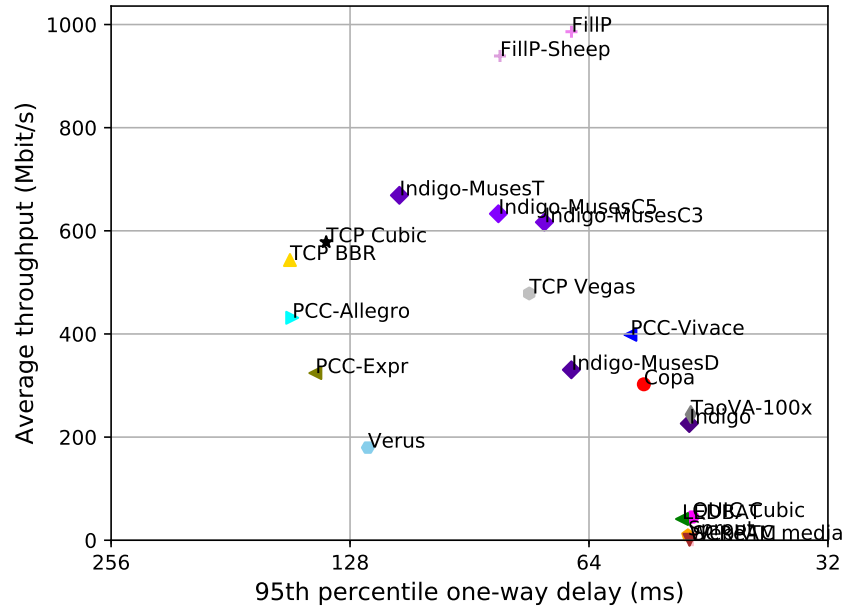
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ c3eee875824760ec5b2fd207fefe166e1afe2170
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
```

third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from GCE London to GCE Iowa, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	543.41	152.37	0.90
Copa	5	302.40	54.58	0.00
TCP Cubic	5	578.01	137.18	0.17
FillP	5	986.08	67.34	0.16
FillP-Sheep	5	939.03	82.85	0.07
Indigo	5	226.26	47.85	0.00
Indigo-MusesC3	5	616.69	72.85	0.03
Indigo-MusesC5	5	633.05	83.24	0.08
Indigo-MusesD	5	330.51	67.36	0.14
Indigo-MusesT	5	668.83	110.93	0.13
LEDBAT	5	41.17	48.87	0.00
PCC-Allegro	5	431.38	151.37	1.75
PCC-Expr	5	324.16	141.56	1.67
QUIC Cubic	5	45.09	47.43	0.00
SCReAM	5	0.22	47.42	0.00
Sprout	5	9.58	48.04	0.00
TaoVA-100x	5	243.77	47.64	0.02
TCP Vegas	5	478.47	76.12	0.03
Verus	5	179.63	121.55	0.54
PCC-Vivace	5	398.35	56.76	0.02
WebRTC media	5	0.85	47.81	0.00

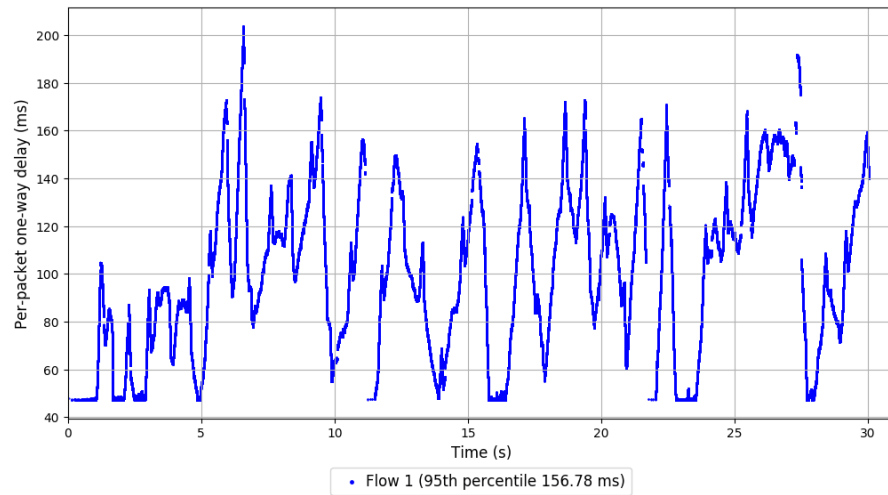
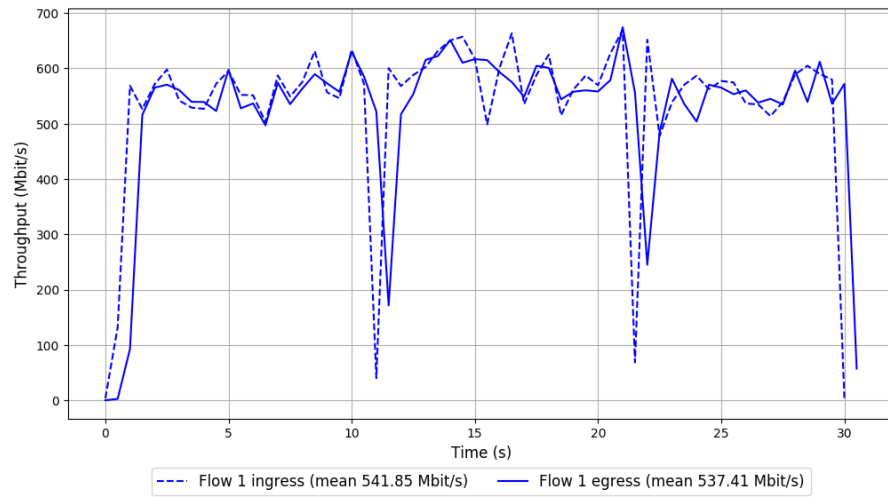


Run 1: Statistics of TCP BBR

Start at: 2019-01-18 04:29:07  
End at: 2019-01-18 04:29:37  
Local clock offset: -0.137 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-01-18 07:26:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 537.41 Mbit/s  
95th percentile per-packet one-way delay: 156.779 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 537.41 Mbit/s  
95th percentile per-packet one-way delay: 156.779 ms  
Loss rate: 0.82%

# Run 1: Report of TCP BBR — Data Link

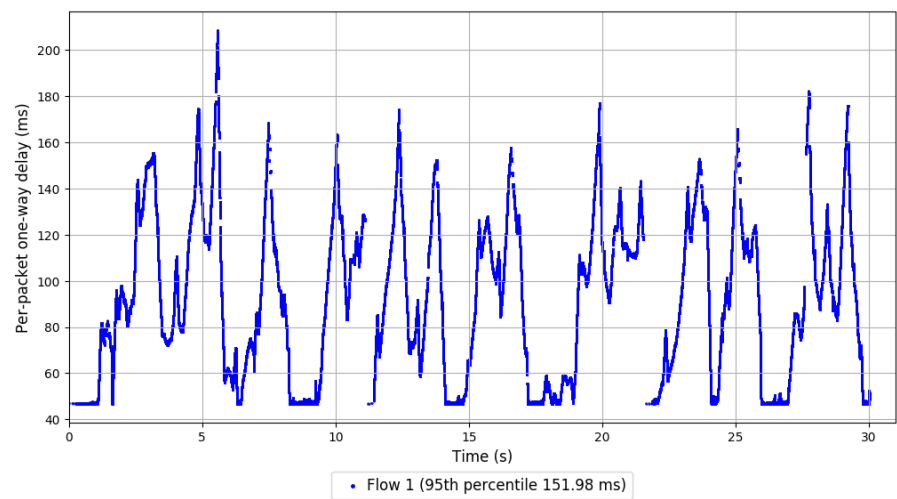
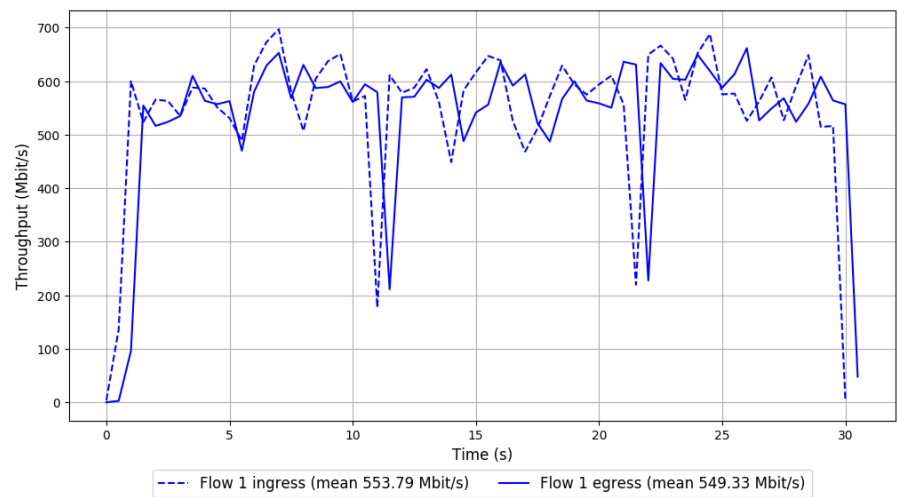


Run 2: Statistics of TCP BBR

Start at: 2019-01-18 05:00:07  
End at: 2019-01-18 05:00:37  
Local clock offset: -0.052 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 07:26:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 549.33 Mbit/s  
95th percentile per-packet one-way delay: 151.979 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 549.33 Mbit/s  
95th percentile per-packet one-way delay: 151.979 ms  
Loss rate: 0.80%

Run 2: Report of TCP BBR — Data Link

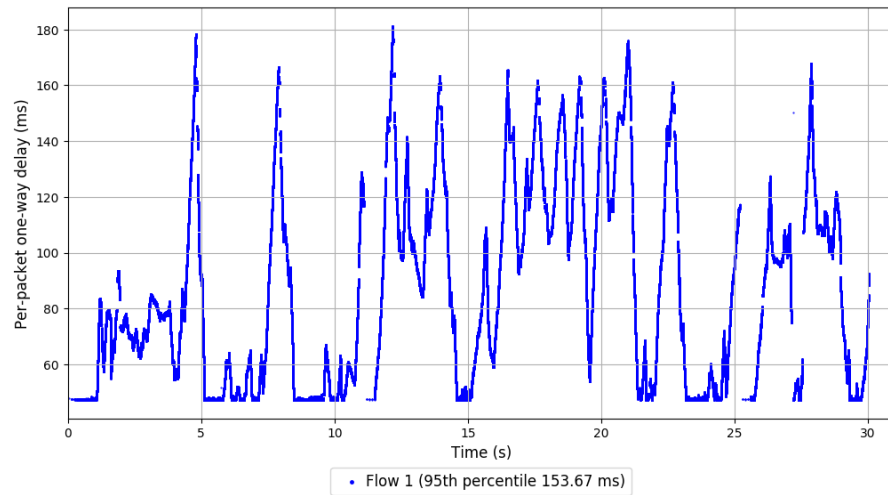
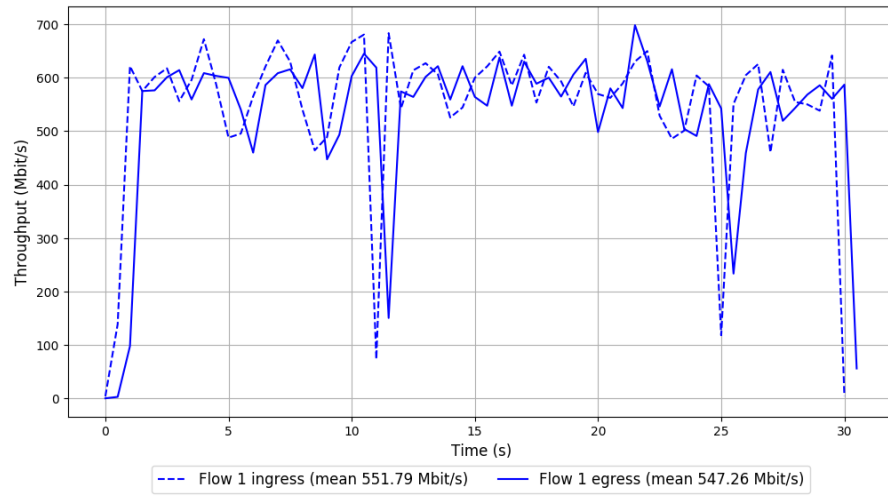


Run 3: Statistics of TCP BBR

Start at: 2019-01-18 05:34:32  
End at: 2019-01-18 05:35:02  
Local clock offset: -0.034 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-18 07:26:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 547.26 Mbit/s  
95th percentile per-packet one-way delay: 153.672 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 547.26 Mbit/s  
95th percentile per-packet one-way delay: 153.672 ms  
Loss rate: 0.82%

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

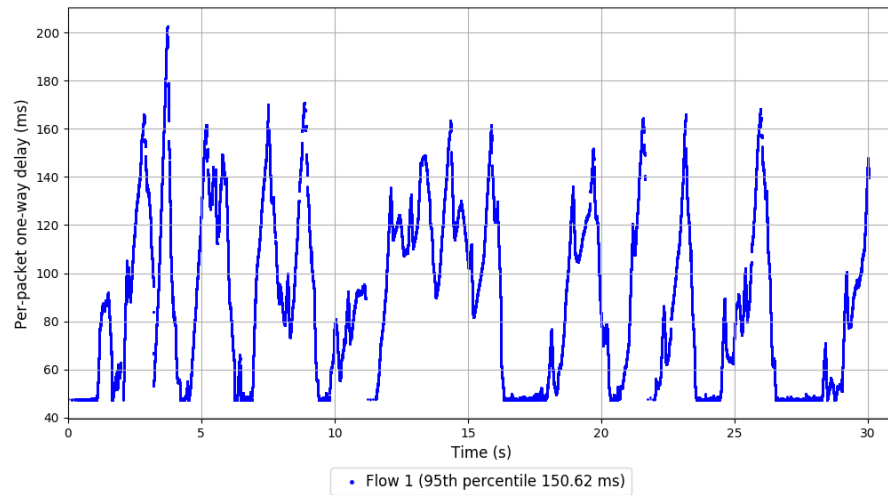
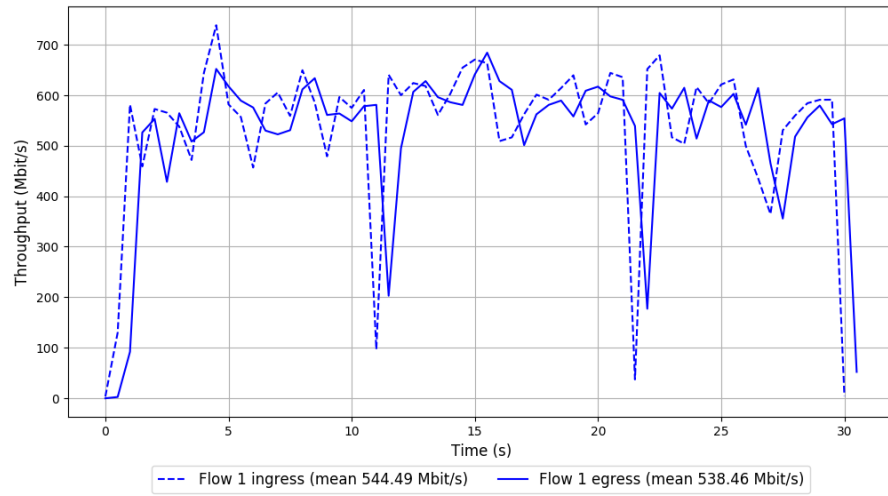


Run 4: Statistics of TCP BBR

Start at: 2019-01-18 06:08:50  
End at: 2019-01-18 06:09:20  
Local clock offset: -0.012 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-18 07:26:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 538.46 Mbit/s  
95th percentile per-packet one-way delay: 150.624 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 538.46 Mbit/s  
95th percentile per-packet one-way delay: 150.624 ms  
Loss rate: 1.11%

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



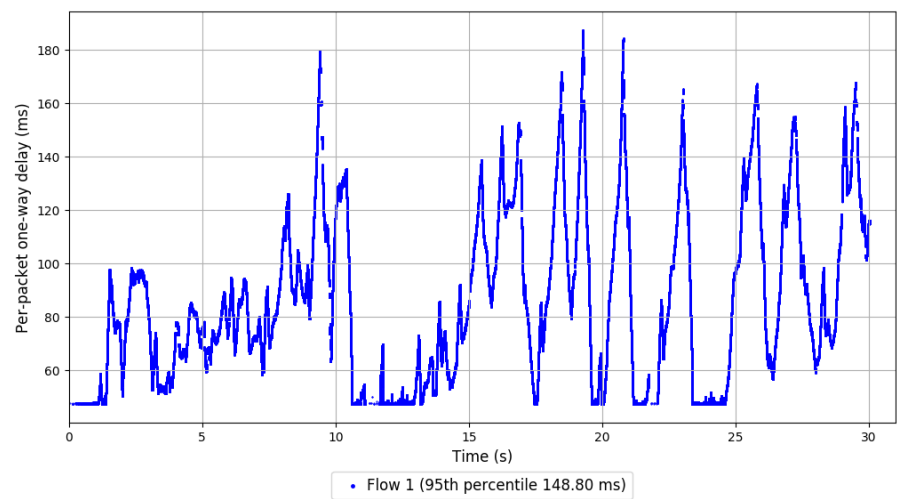
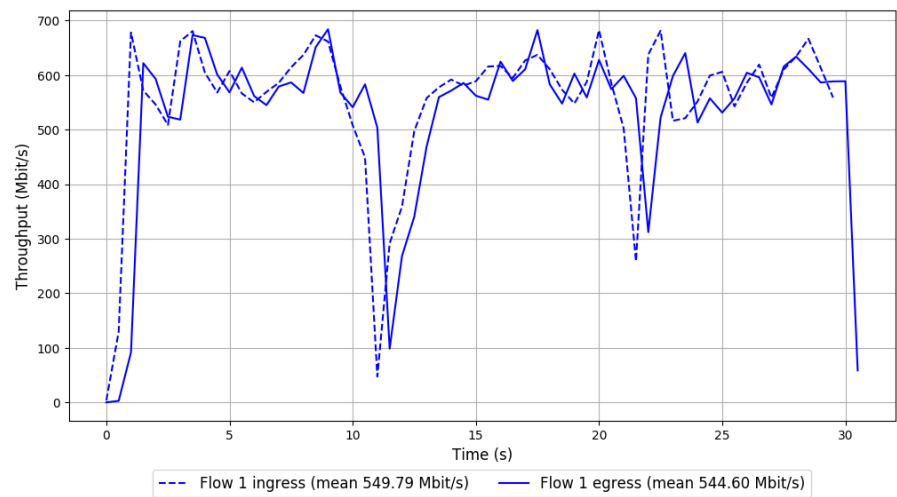


Run 5: Statistics of TCP BBR

Start at: 2019-01-18 06:42:40  
End at: 2019-01-18 06:43:10  
Local clock offset: -0.027 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-01-18 07:26:36  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 544.60 Mbit/s  
95th percentile per-packet one-way delay: 148.804 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 544.60 Mbit/s  
95th percentile per-packet one-way delay: 148.804 ms  
Loss rate: 0.94%

Run 5: Report of TCP BBR — Data Link

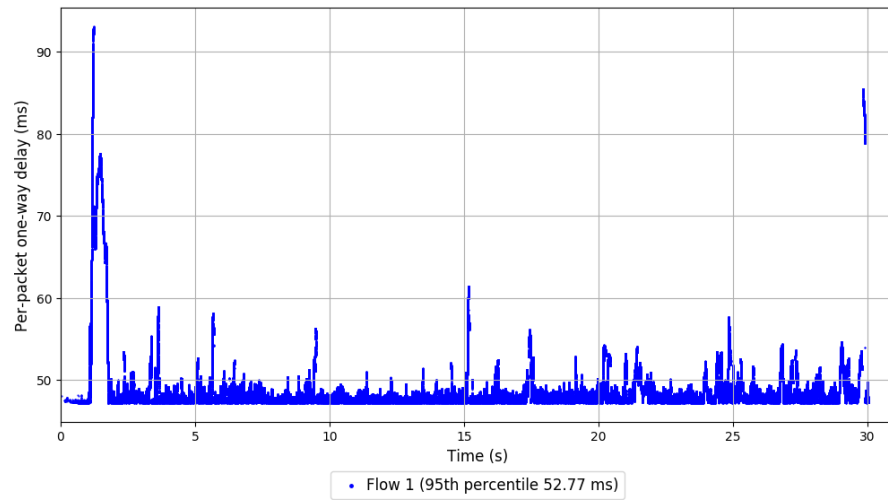
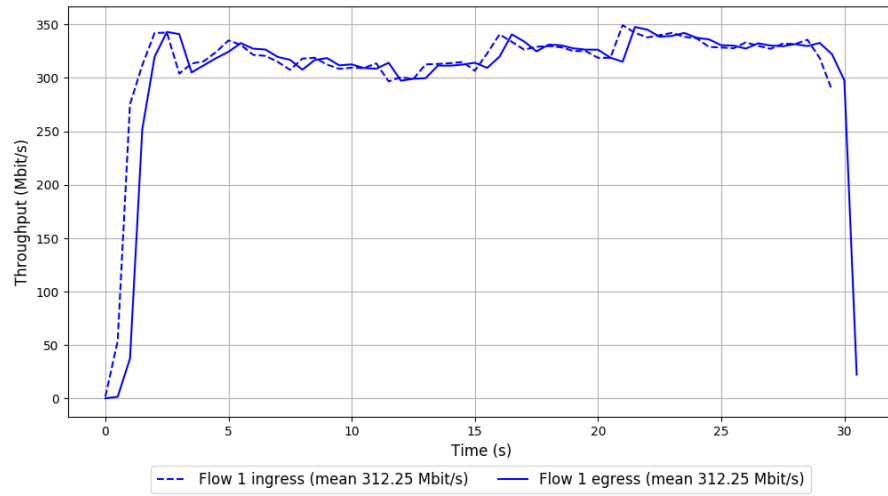


Run 1: Statistics of Copa

Start at: 2019-01-18 04:39:12  
End at: 2019-01-18 04:39:42  
Local clock offset: -0.069 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-18 07:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 312.25 Mbit/s  
95th percentile per-packet one-way delay: 52.767 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 312.25 Mbit/s  
95th percentile per-packet one-way delay: 52.767 ms  
Loss rate: 0.00%

## Run 1: Report of Copa — Data Link

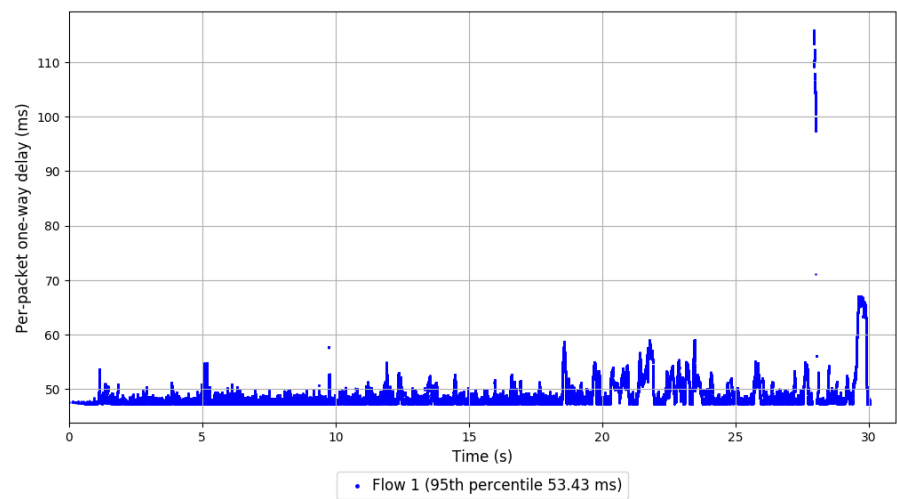
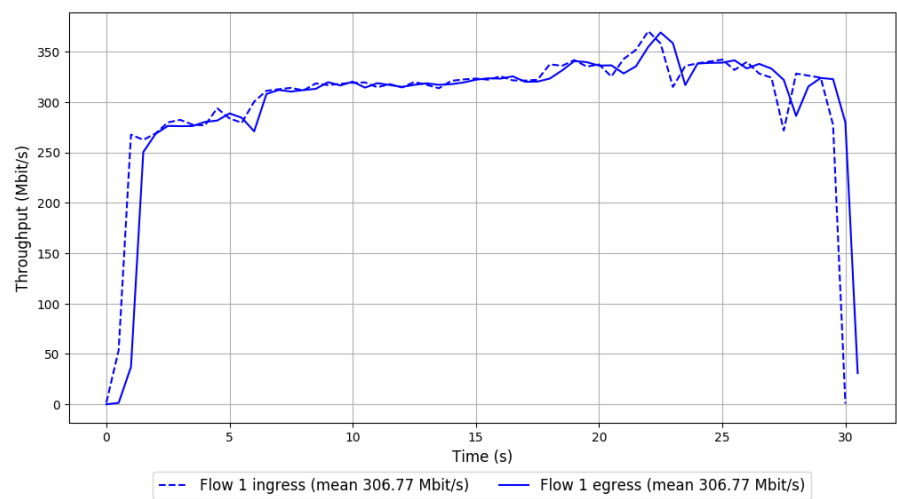


Run 2: Statistics of Copa

Start at: 2019-01-18 05:11:26  
End at: 2019-01-18 05:11:56  
Local clock offset: -0.066 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 07:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 306.77 Mbit/s  
95th percentile per-packet one-way delay: 53.431 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 306.77 Mbit/s  
95th percentile per-packet one-way delay: 53.431 ms  
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

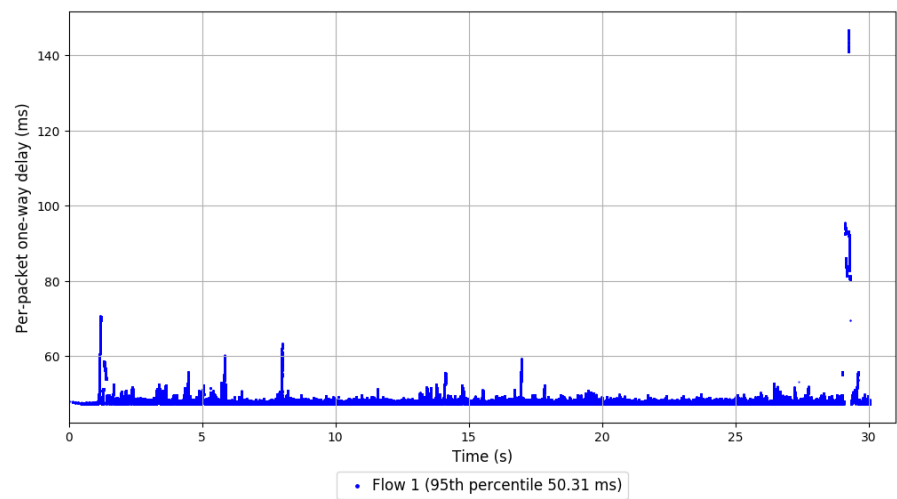
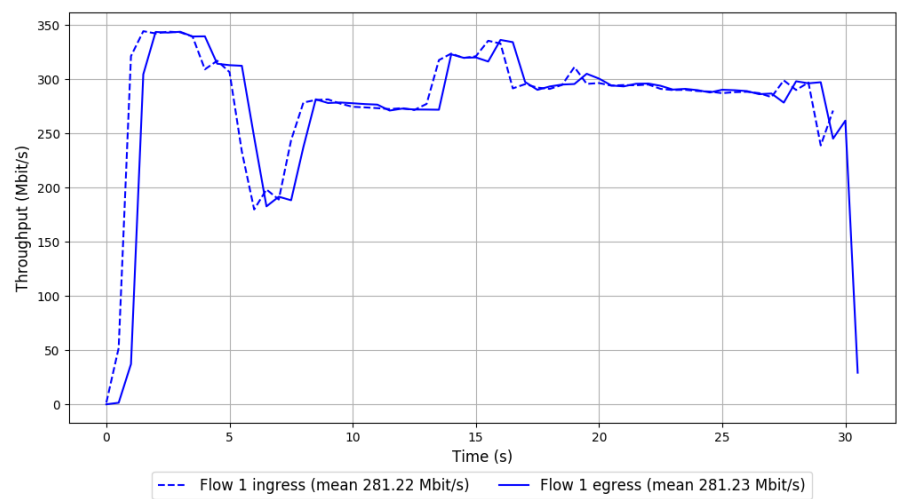


Run 3: Statistics of Copa

Start at: 2019-01-18 05:45:50  
End at: 2019-01-18 05:46:20  
Local clock offset: -0.033 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-18 07:27:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 281.23 Mbit/s  
95th percentile per-packet one-way delay: 50.310 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 281.23 Mbit/s  
95th percentile per-packet one-way delay: 50.310 ms  
Loss rate: 0.00%

Run 3: Report of Copa — Data Link



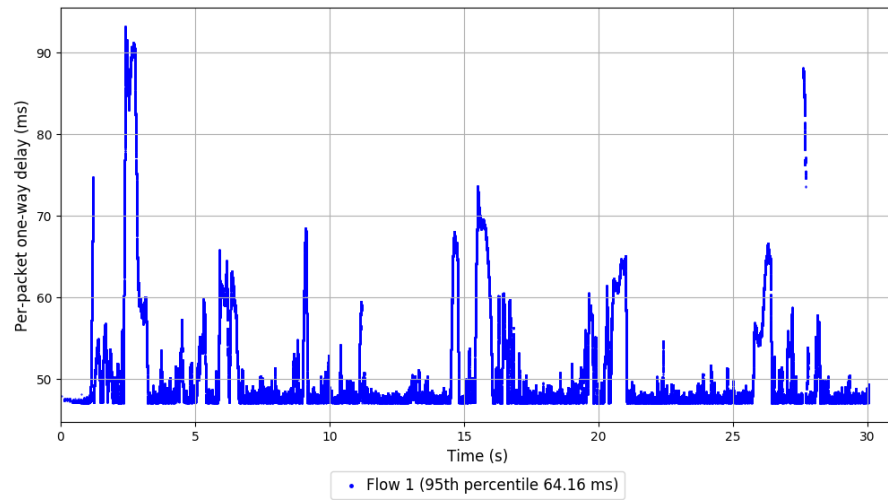
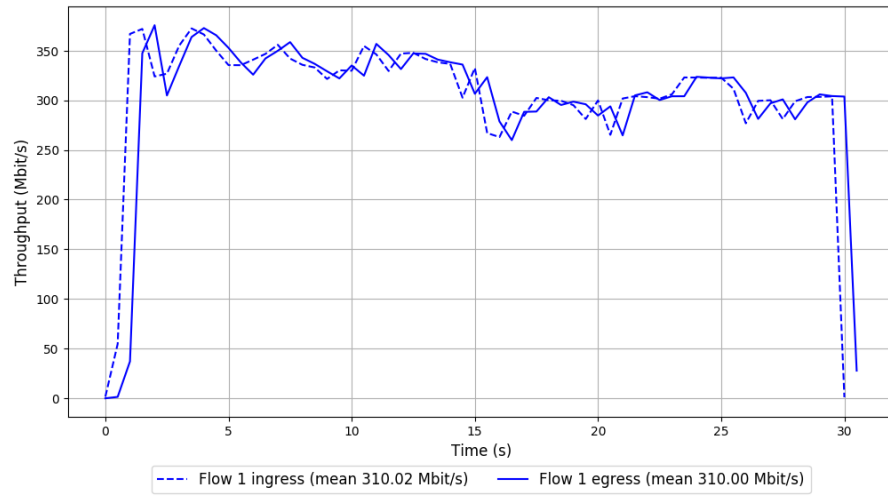


Run 4: Statistics of Copa

Start at: 2019-01-18 06:20:10  
End at: 2019-01-18 06:20:40  
Local clock offset: 0.003 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-18 07:37:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 310.00 Mbit/s  
95th percentile per-packet one-way delay: 64.155 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 310.00 Mbit/s  
95th percentile per-packet one-way delay: 64.155 ms  
Loss rate: 0.01%

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

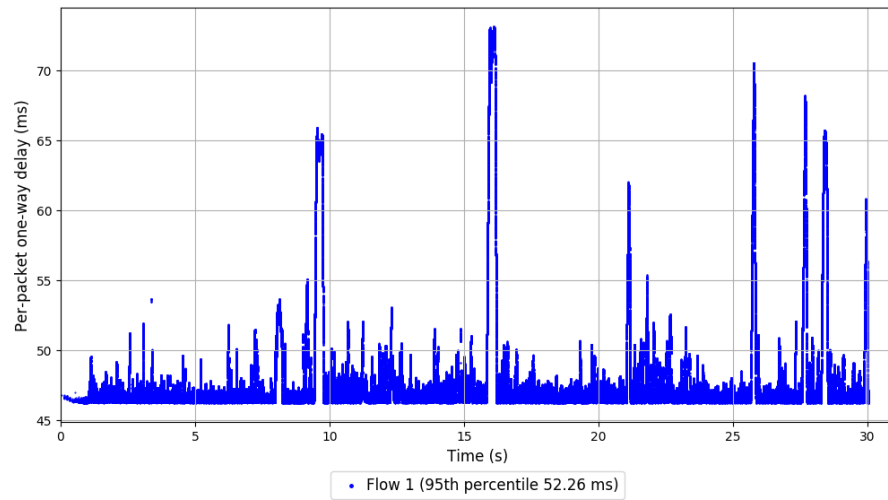
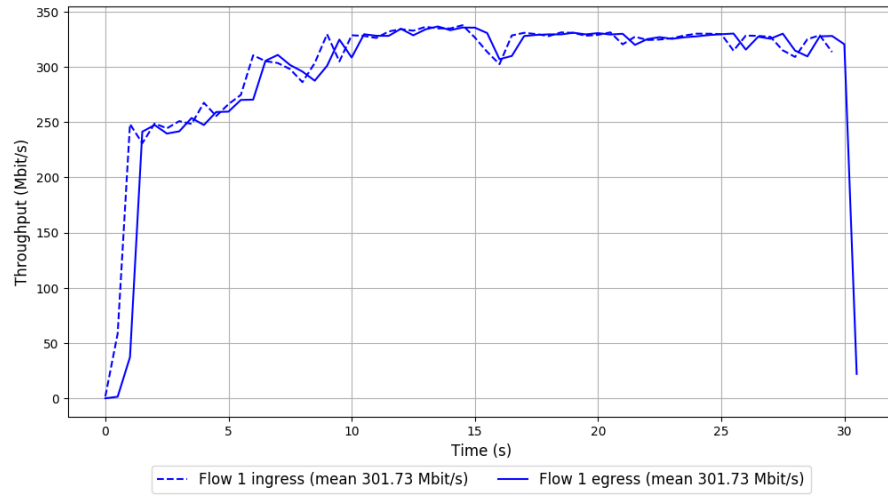


Run 5: Statistics of Copa

Start at: 2019-01-18 06:53:00  
End at: 2019-01-18 06:53:30  
Local clock offset: 0.112 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-18 07:37:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 301.73 Mbit/s  
95th percentile per-packet one-way delay: 52.260 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 301.73 Mbit/s  
95th percentile per-packet one-way delay: 52.260 ms  
Loss rate: 0.00%

## Run 5: Report of Copa — Data Link

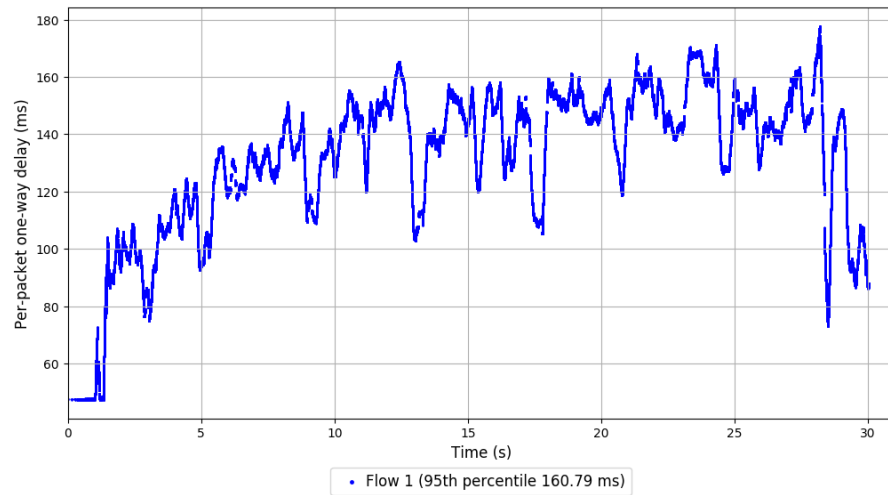
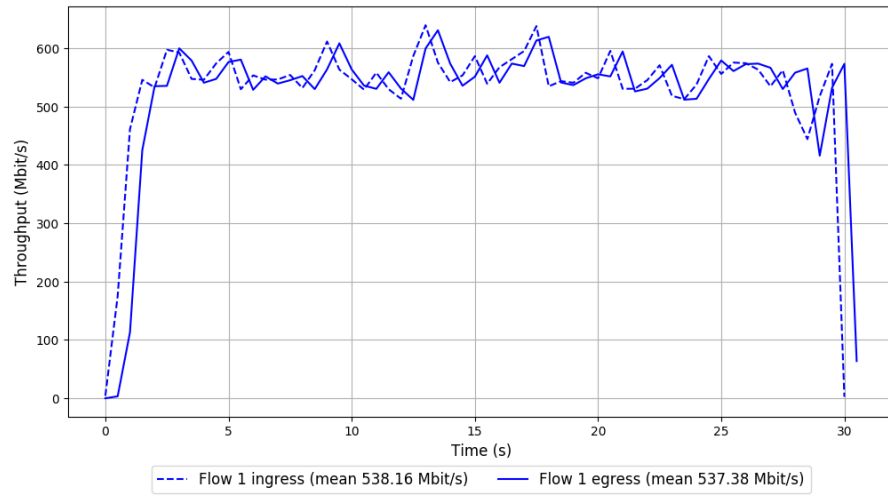


Run 1: Statistics of TCP Cubic

Start at: 2019-01-18 04:35:07  
End at: 2019-01-18 04:35:38  
Local clock offset: -0.118 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-18 07:37:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 537.38 Mbit/s  
95th percentile per-packet one-way delay: 160.791 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 537.38 Mbit/s  
95th percentile per-packet one-way delay: 160.791 ms  
Loss rate: 0.14%

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

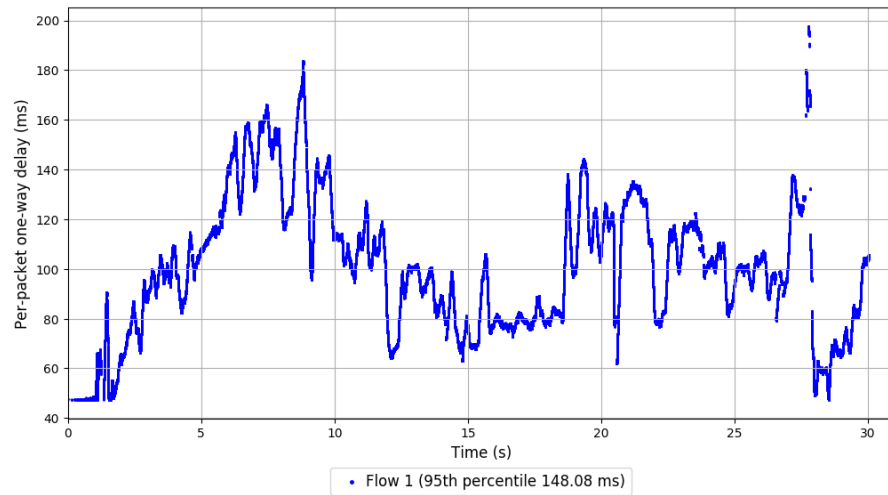
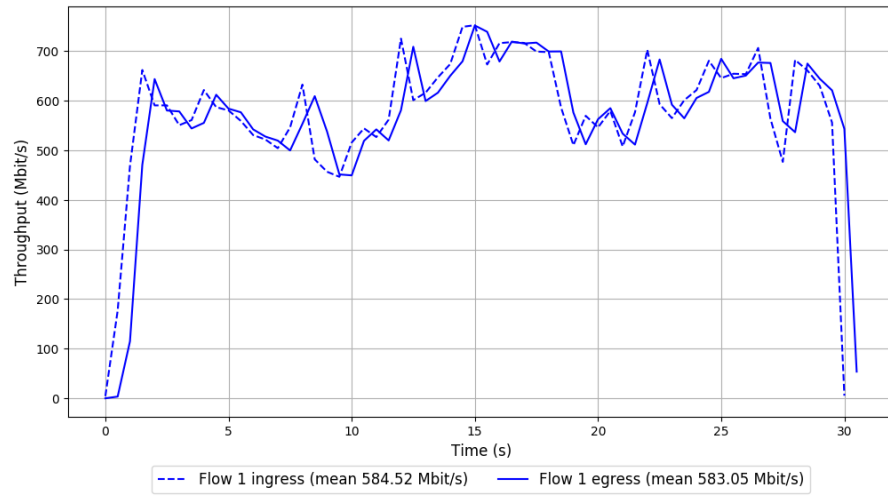


Run 2: Statistics of TCP Cubic

Start at: 2019-01-18 05:07:04  
End at: 2019-01-18 05:07:34  
Local clock offset: -0.05 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 07:37:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 583.05 Mbit/s  
95th percentile per-packet one-way delay: 148.083 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 583.05 Mbit/s  
95th percentile per-packet one-way delay: 148.083 ms  
Loss rate: 0.25%

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



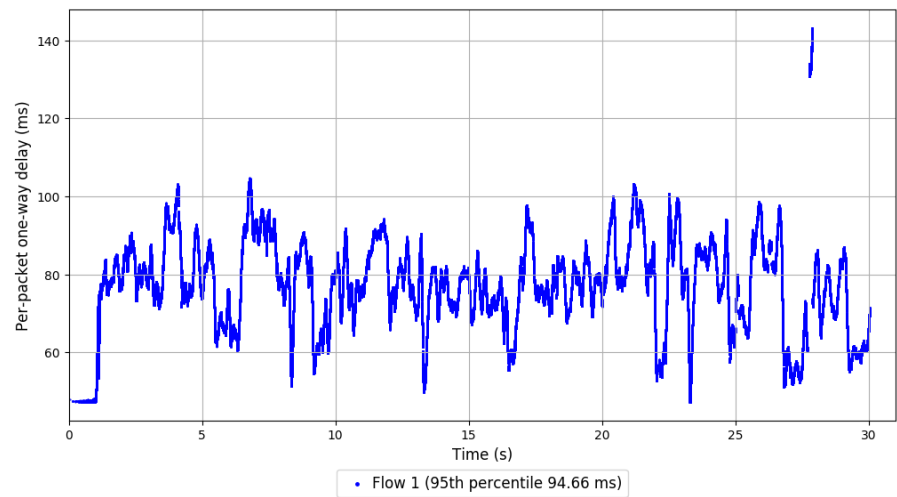
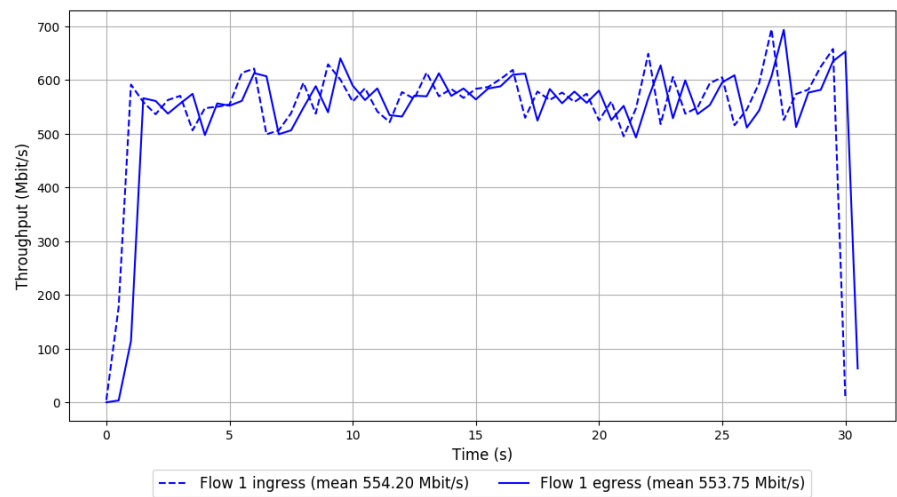


Run 3: Statistics of TCP Cubic

Start at: 2019-01-18 05:41:23  
End at: 2019-01-18 05:41:53  
Local clock offset: -0.066 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-18 07:37:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 553.75 Mbit/s  
95th percentile per-packet one-way delay: 94.663 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 553.75 Mbit/s  
95th percentile per-packet one-way delay: 94.663 ms  
Loss rate: 0.08%

Run 3: Report of TCP Cubic — Data Link

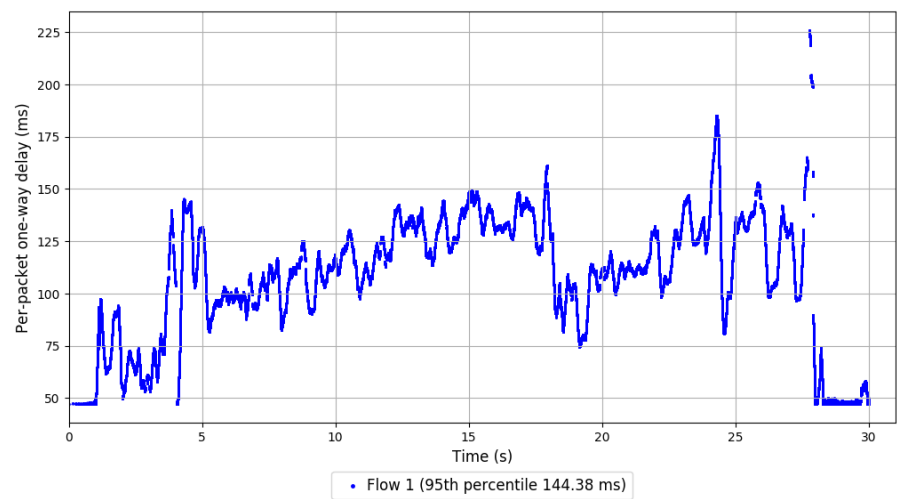
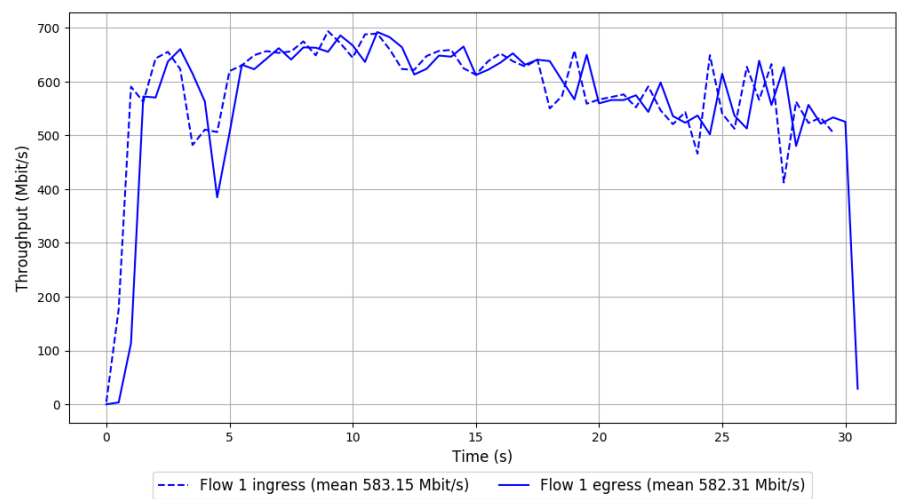


Run 4: Statistics of TCP Cubic

Start at: 2019-01-18 06:15:46  
End at: 2019-01-18 06:16:16  
Local clock offset: 0.135 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-01-18 07:37:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 582.31 Mbit/s  
95th percentile per-packet one-way delay: 144.375 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 582.31 Mbit/s  
95th percentile per-packet one-way delay: 144.375 ms  
Loss rate: 0.14%

Run 4: Report of TCP Cubic — Data Link

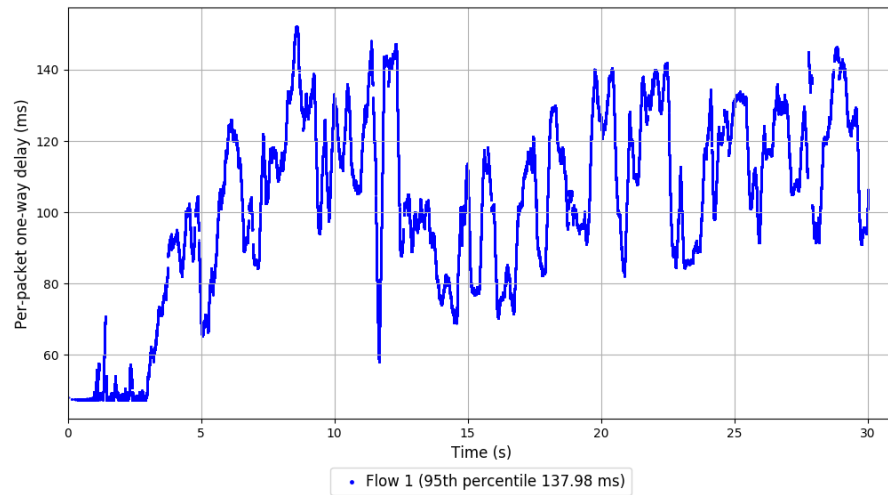
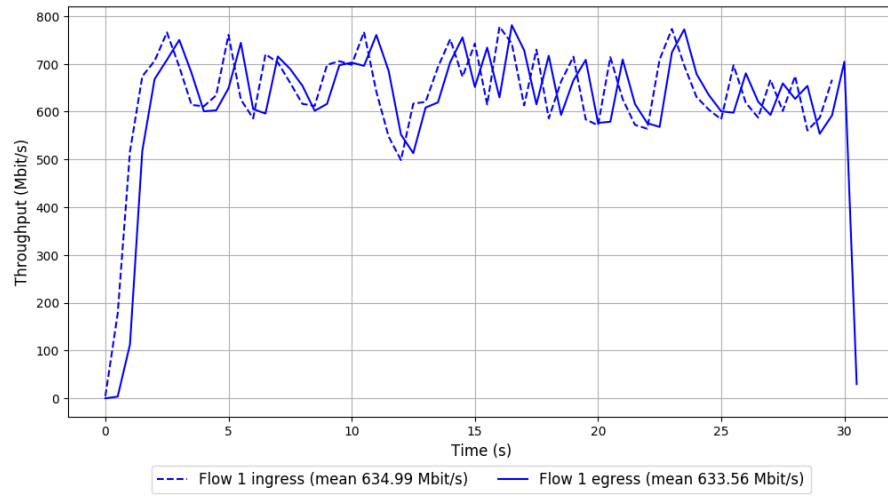


Run 5: Statistics of TCP Cubic

Start at: 2019-01-18 06:48:48  
End at: 2019-01-18 06:49:18  
Local clock offset: -0.013 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-01-18 07:38:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 633.56 Mbit/s  
95th percentile per-packet one-way delay: 137.976 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 633.56 Mbit/s  
95th percentile per-packet one-way delay: 137.976 ms  
Loss rate: 0.23%

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

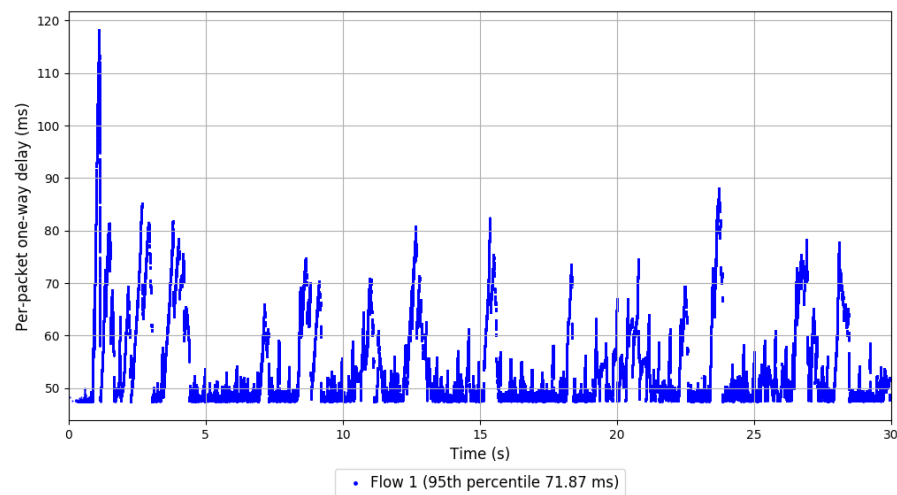
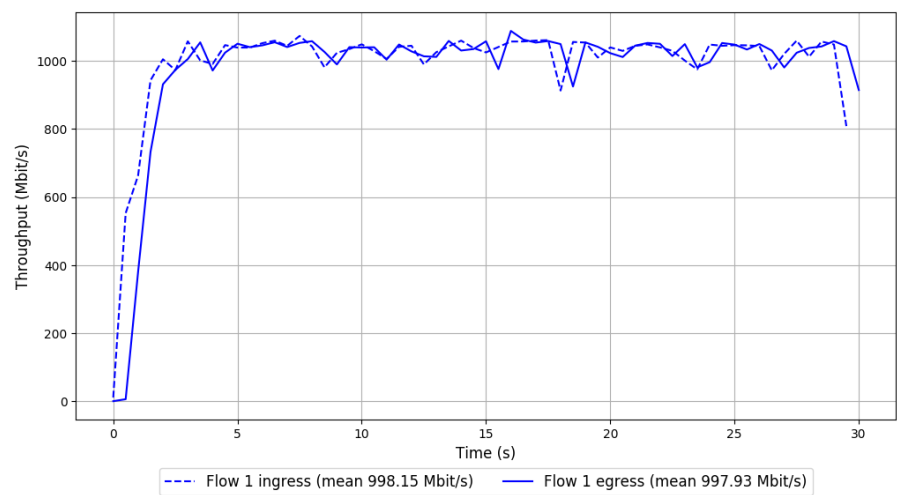


Run 1: Statistics of FillP

Start at: 2019-01-18 04:27:20  
End at: 2019-01-18 04:27:50  
Local clock offset: -0.135 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-18 07:46:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 997.93 Mbit/s  
95th percentile per-packet one-way delay: 71.870 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 997.93 Mbit/s  
95th percentile per-packet one-way delay: 71.870 ms  
Loss rate: 0.02%

Run 1: Report of FillP — Data Link



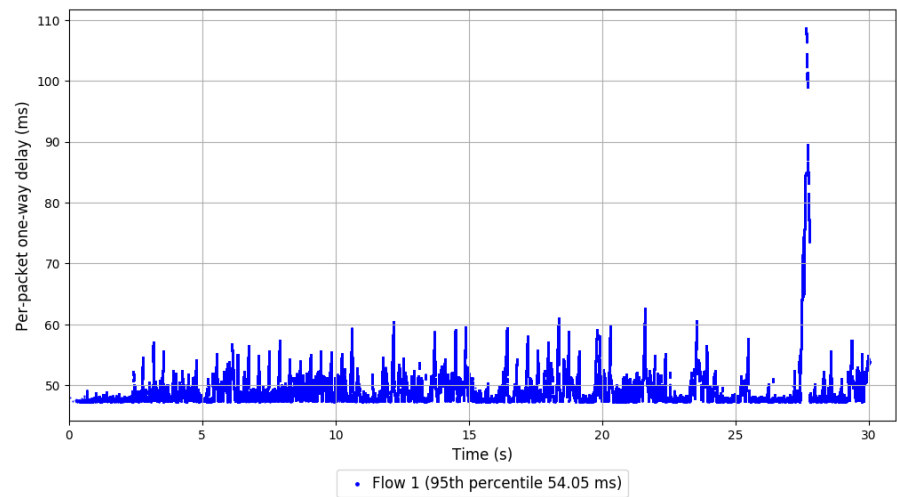
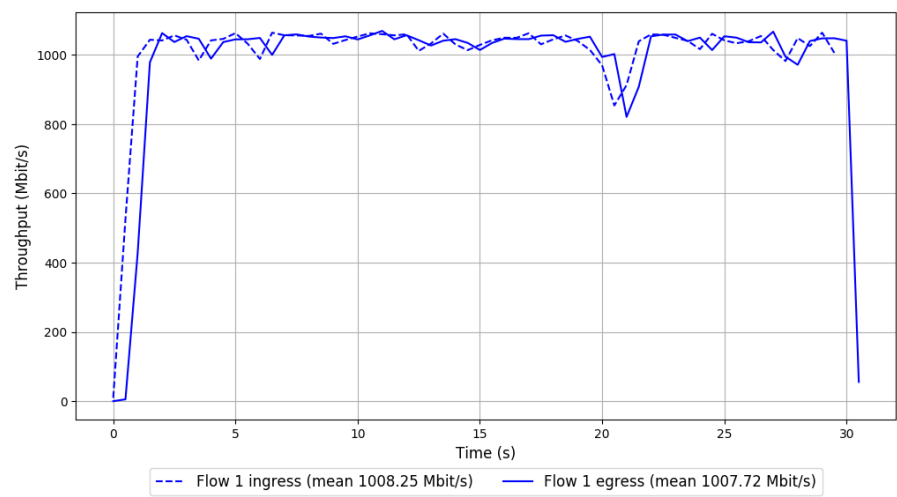


Run 2: Statistics of FillP

Start at: 2019-01-18 04:58:12  
End at: 2019-01-18 04:58:42  
Local clock offset: -0.078 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-18 07:59:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1007.72 Mbit/s  
95th percentile per-packet one-way delay: 54.048 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 1007.72 Mbit/s  
95th percentile per-packet one-way delay: 54.048 ms  
Loss rate: 0.05%

Run 2: Report of FillP — Data Link

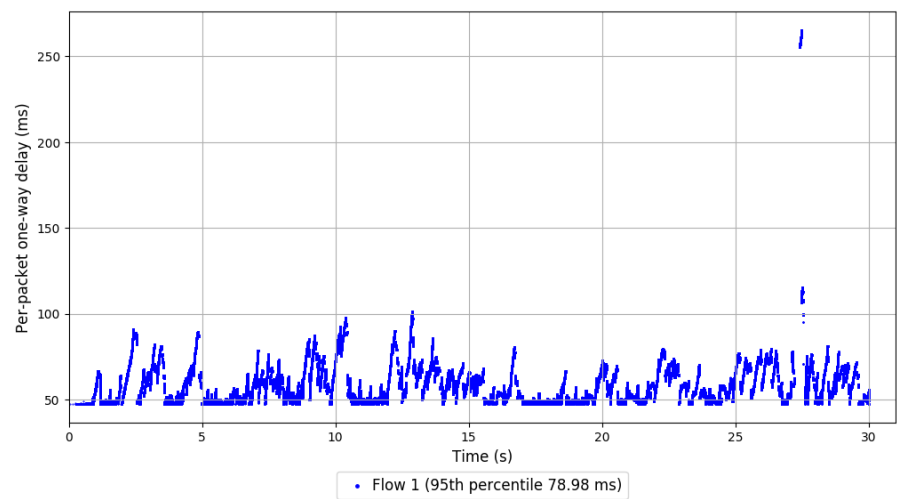
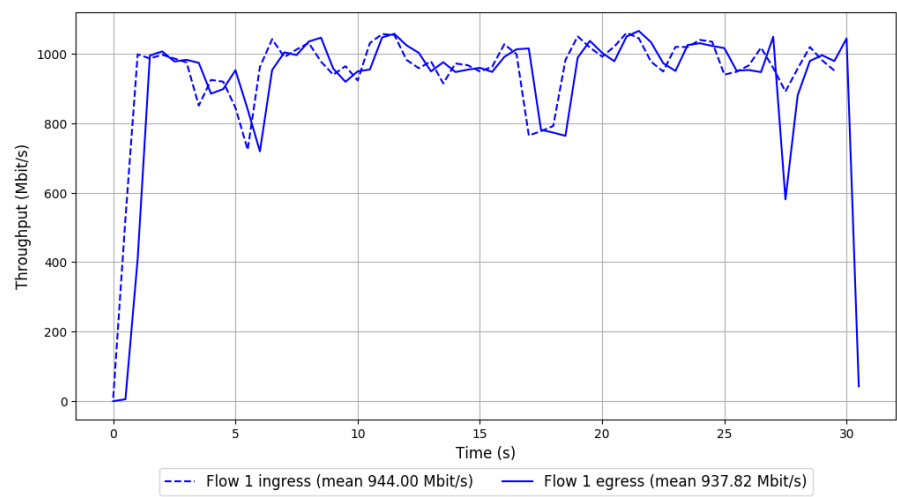


Run 3: Statistics of FillP

Start at: 2019-01-18 05:32:27  
End at: 2019-01-18 05:32:57  
Local clock offset: -0.055 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-01-18 07:59:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 937.82 Mbit/s  
95th percentile per-packet one-way delay: 78.981 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 937.82 Mbit/s  
95th percentile per-packet one-way delay: 78.981 ms  
Loss rate: 0.65%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-18 06:06:48

End at: 2019-01-18 06:07:18

Local clock offset: -0.049 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-01-18 07:59:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 983.64 Mbit/s

95th percentile per-packet one-way delay: 79.457 ms

Loss rate: 0.08%

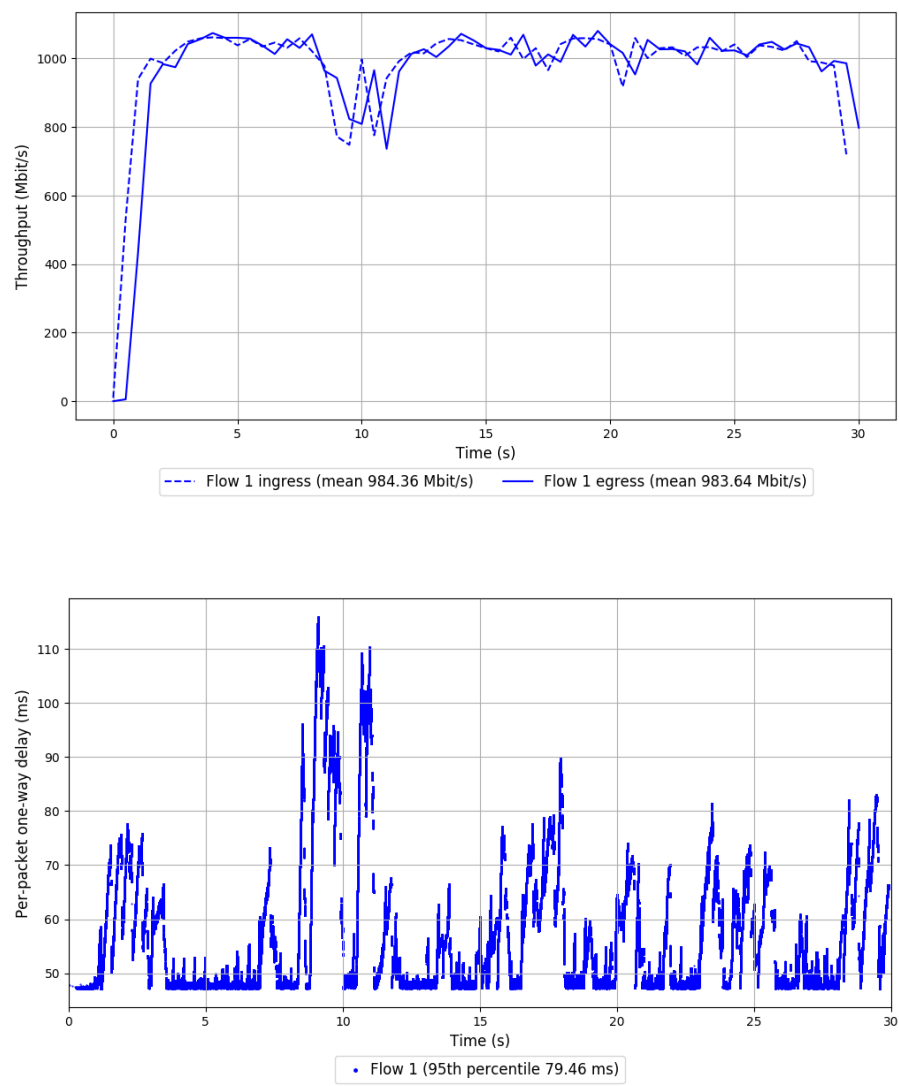
-- Flow 1:

Average throughput: 983.64 Mbit/s

95th percentile per-packet one-way delay: 79.457 ms

Loss rate: 0.08%

Run 4: Report of FillP — Data Link

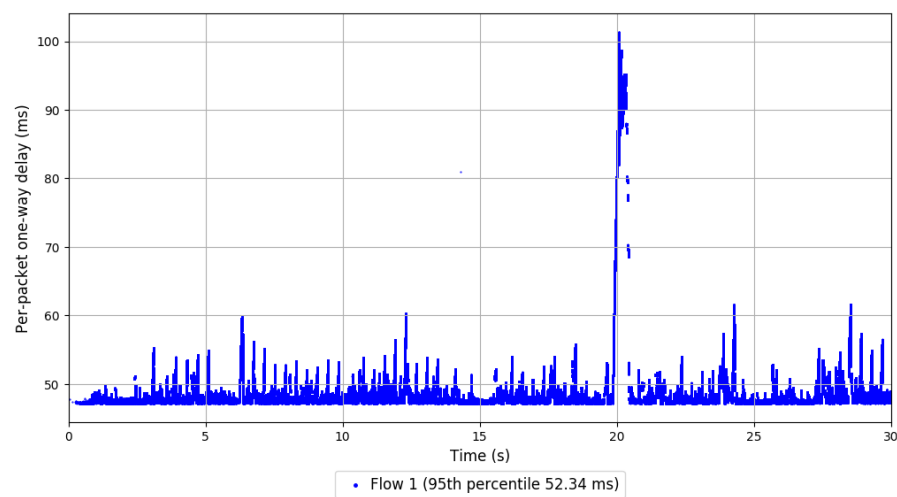
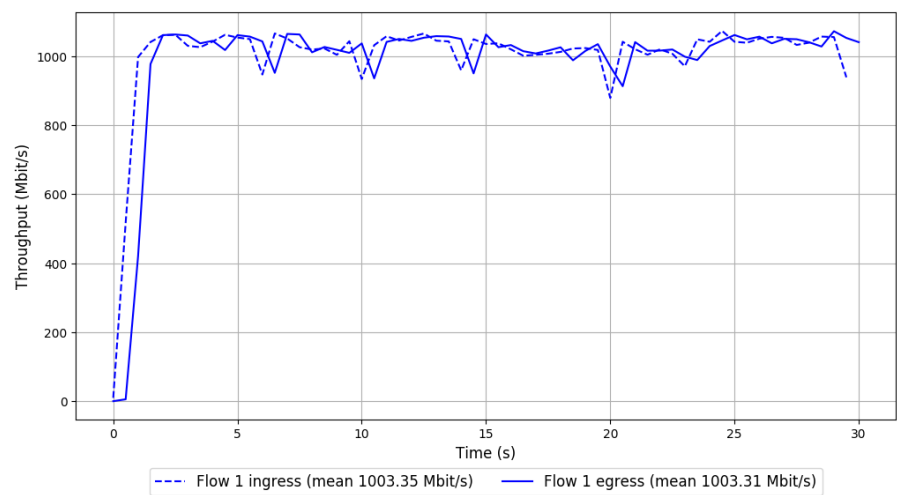


Run 5: Statistics of FillP

Start at: 2019-01-18 06:40:51  
End at: 2019-01-18 06:41:21  
Local clock offset: 0.106 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-01-18 07:59:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 1003.31 Mbit/s  
95th percentile per-packet one-way delay: 52.336 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1003.31 Mbit/s  
95th percentile per-packet one-way delay: 52.336 ms  
Loss rate: 0.00%

Run 5: Report of FillP — Data Link



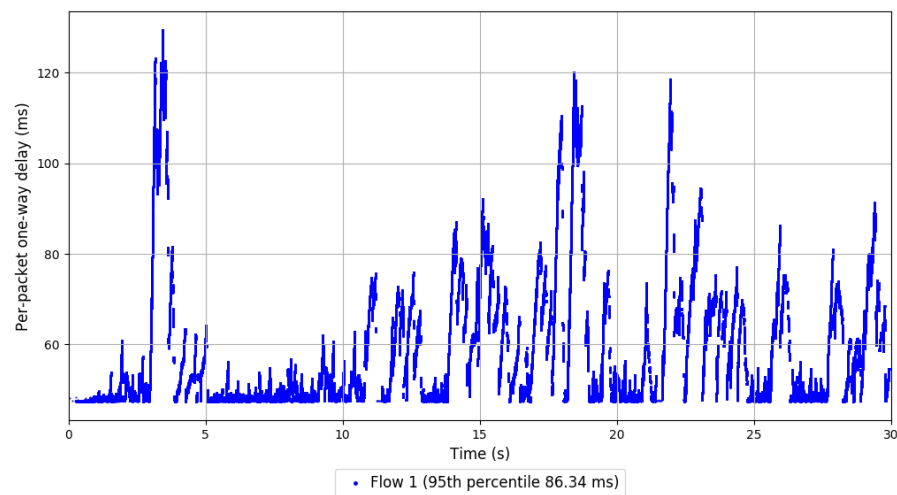
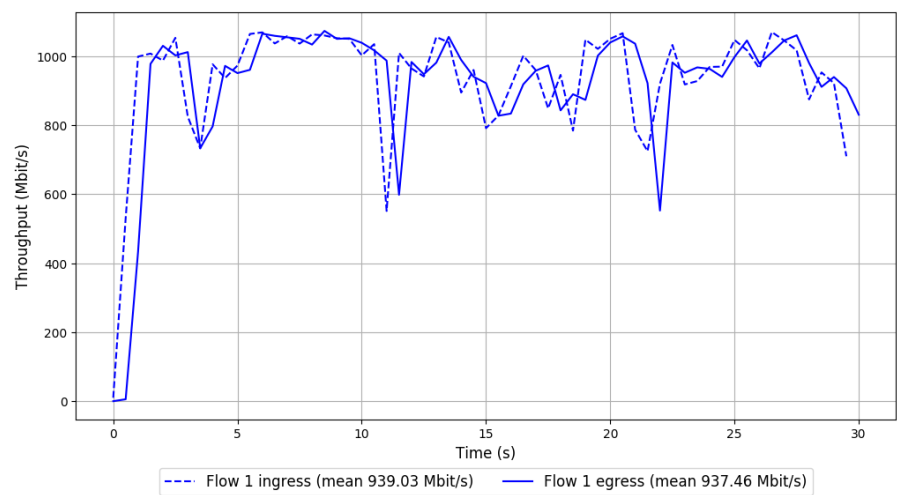


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-18 04:33:25  
End at: 2019-01-18 04:33:55  
Local clock offset: -0.137 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-01-18 07:59:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 937.46 Mbit/s  
95th percentile per-packet one-way delay: 86.345 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 937.46 Mbit/s  
95th percentile per-packet one-way delay: 86.345 ms  
Loss rate: 0.17%

Run 1: Report of FillP-Sheep — Data Link

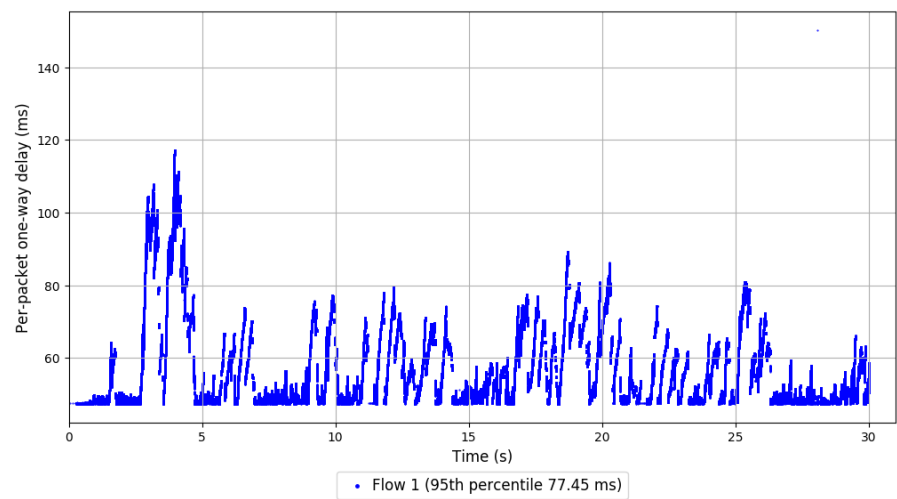
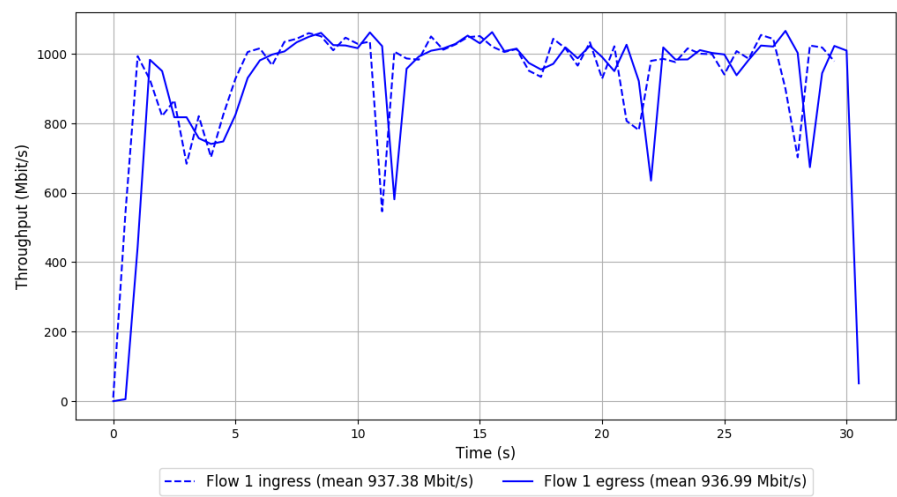


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-18 05:05:03  
End at: 2019-01-18 05:05:33  
Local clock offset: -0.075 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 07:59:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 936.99 Mbit/s  
95th percentile per-packet one-way delay: 77.448 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 936.99 Mbit/s  
95th percentile per-packet one-way delay: 77.448 ms  
Loss rate: 0.04%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-01-18 05:39:19

End at: 2019-01-18 05:39:49

Local clock offset: -0.044 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-01-18 08:00:04

# Datalink statistics

-- Total of 1 flow:

Average throughput: 944.17 Mbit/s

95th percentile per-packet one-way delay: 71.667 ms

Loss rate: 0.02%

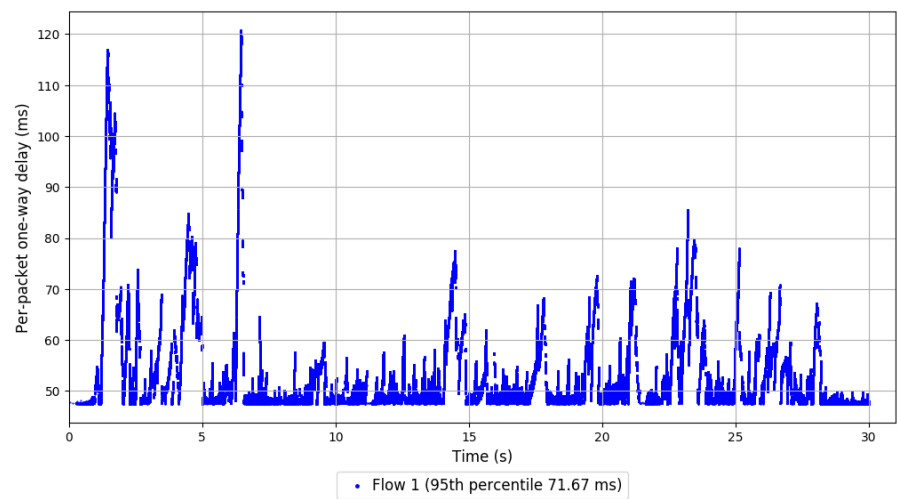
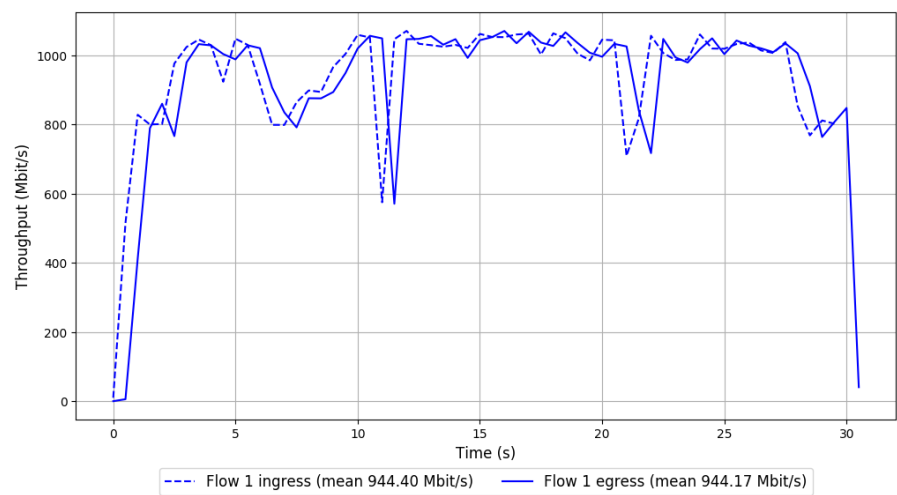
-- Flow 1:

Average throughput: 944.17 Mbit/s

95th percentile per-packet one-way delay: 71.667 ms

Loss rate: 0.02%

Run 3: Report of FillP-Sheep — Data Link

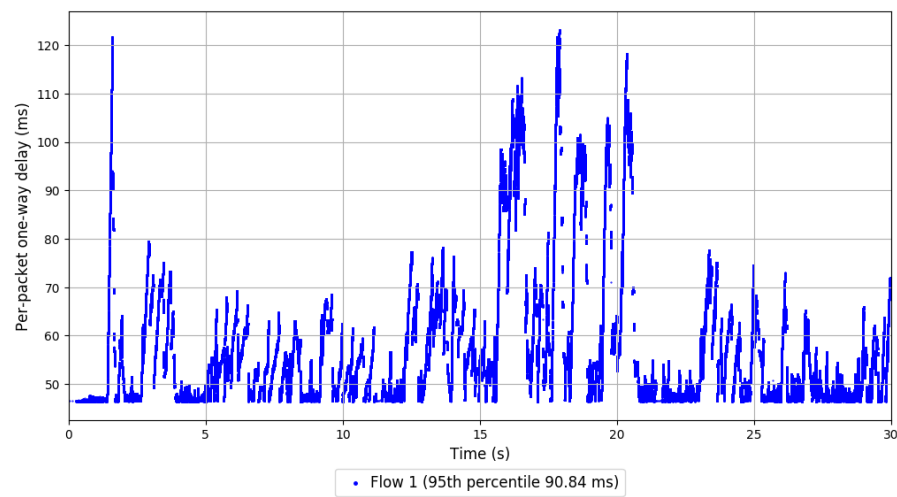
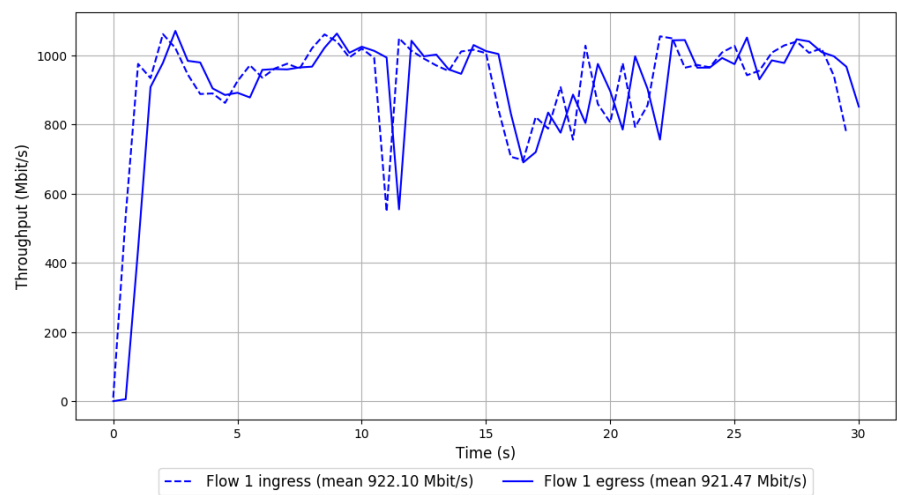


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-18 06:13:46  
End at: 2019-01-18 06:14:17  
Local clock offset: -0.024 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-18 08:10:25  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 921.47 Mbit/s  
95th percentile per-packet one-way delay: 90.843 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 921.47 Mbit/s  
95th percentile per-packet one-way delay: 90.843 ms  
Loss rate: 0.06%

Run 4: Report of FillP-Sheep — Data Link



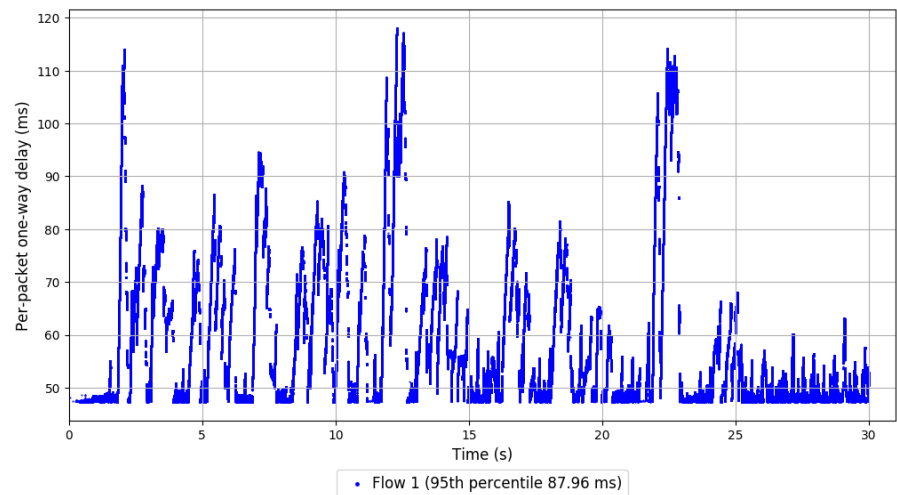
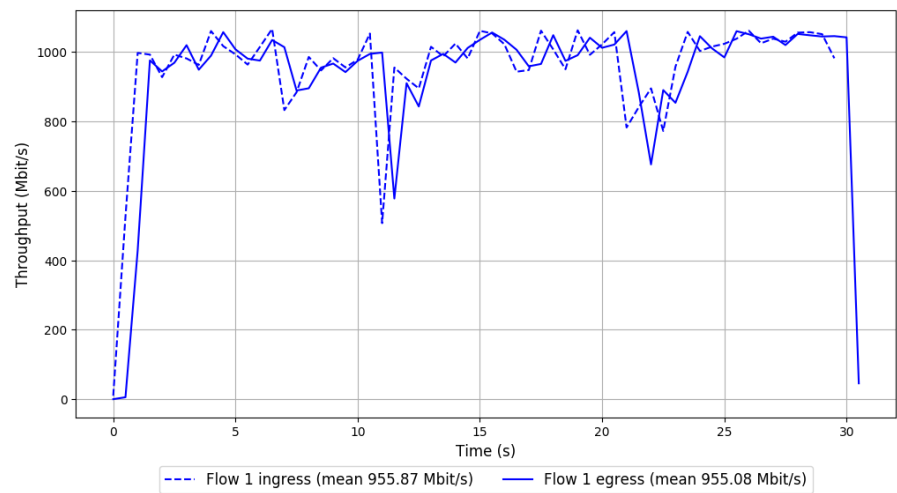


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-18 06:47:01  
End at: 2019-01-18 06:47:31  
Local clock offset: 0.001 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 955.08 Mbit/s  
95th percentile per-packet one-way delay: 87.962 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 955.08 Mbit/s  
95th percentile per-packet one-way delay: 87.962 ms  
Loss rate: 0.08%

Run 5: Report of FillP-Sheep — Data Link

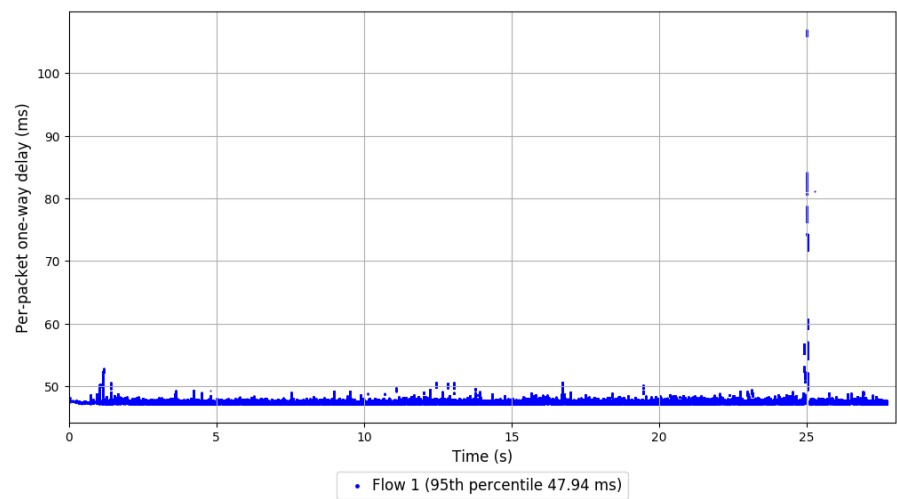
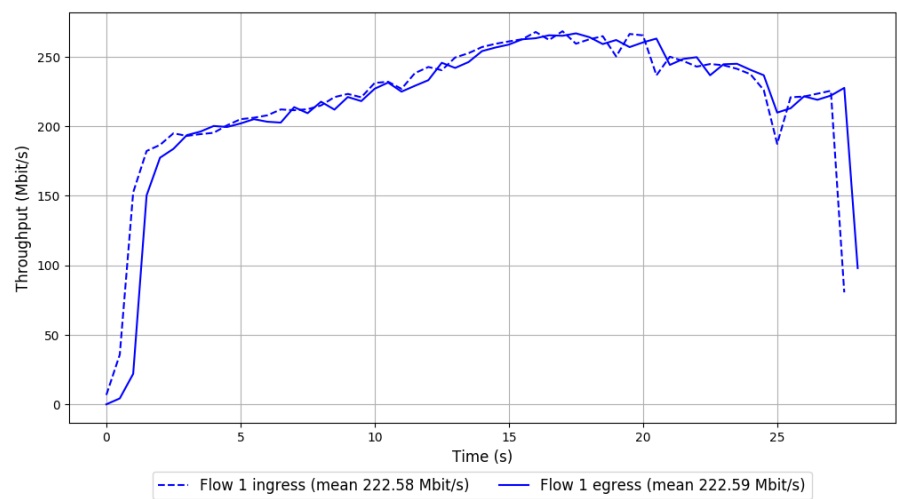


Run 1: Statistics of Indigo

Start at: 2019-01-18 04:19:07  
End at: 2019-01-18 04:19:37  
Local clock offset: -0.094 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 222.59 Mbit/s  
95th percentile per-packet one-way delay: 47.935 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 222.59 Mbit/s  
95th percentile per-packet one-way delay: 47.935 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-01-18 04:49:49

End at: 2019-01-18 04:50:19

Local clock offset: -0.064 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-01-18 08:21:27

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.48 Mbit/s

95th percentile per-packet one-way delay: 47.888 ms

Loss rate: 0.00%

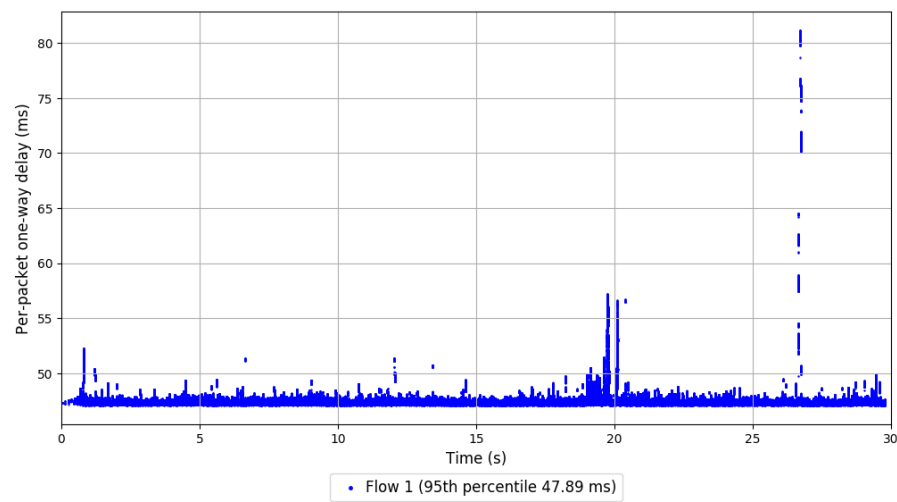
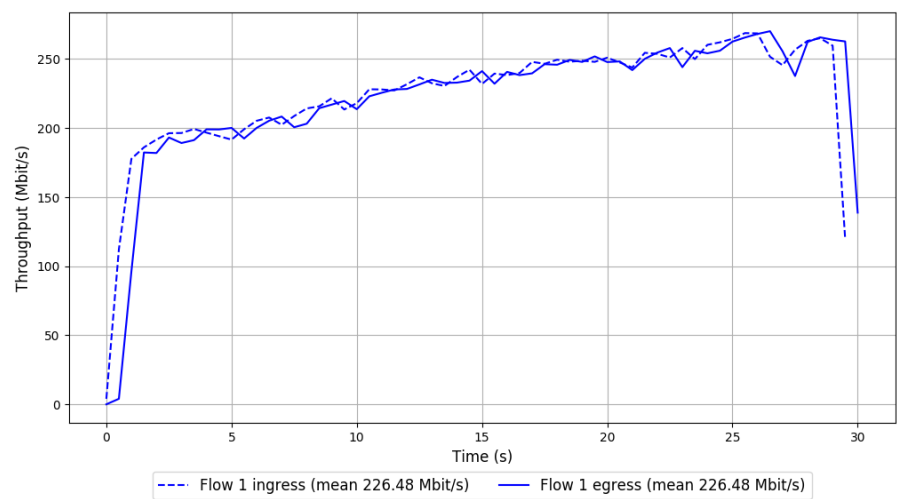
-- Flow 1:

Average throughput: 226.48 Mbit/s

95th percentile per-packet one-way delay: 47.888 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

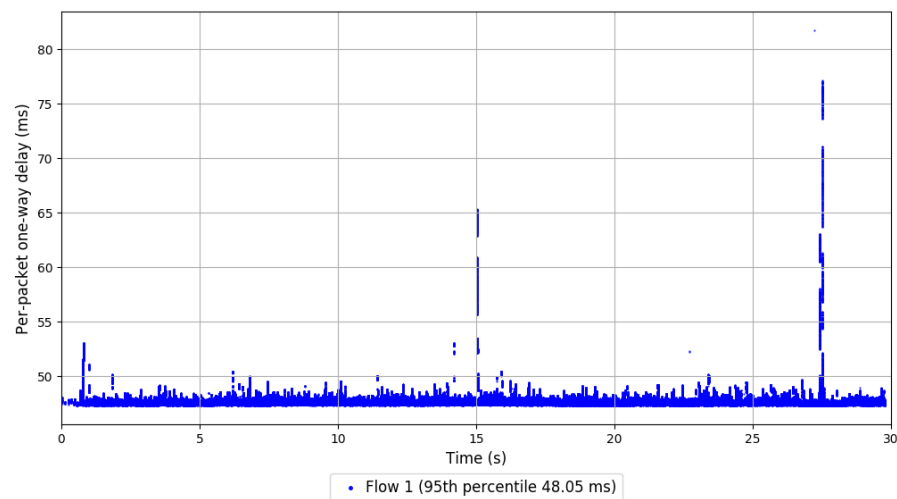
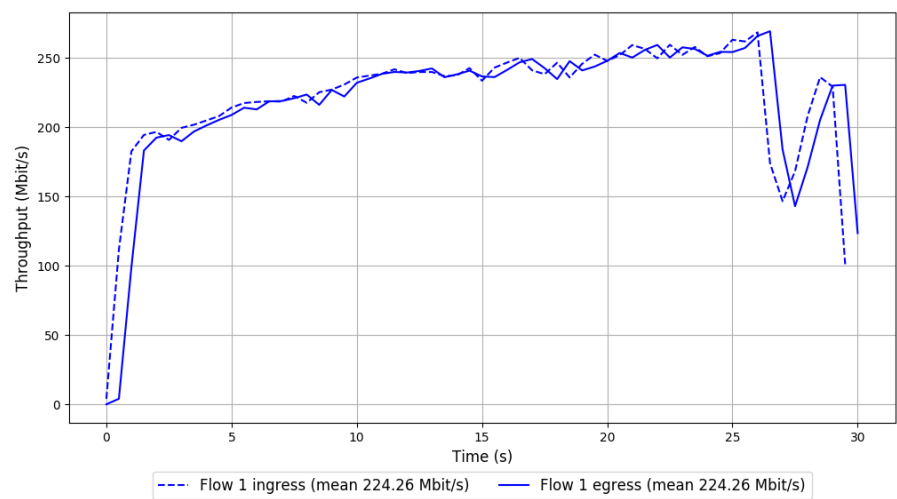


Run 3: Statistics of Indigo

Start at: 2019-01-18 05:23:36  
End at: 2019-01-18 05:24:06  
Local clock offset: -0.043 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 224.26 Mbit/s  
95th percentile per-packet one-way delay: 48.054 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 224.26 Mbit/s  
95th percentile per-packet one-way delay: 48.054 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



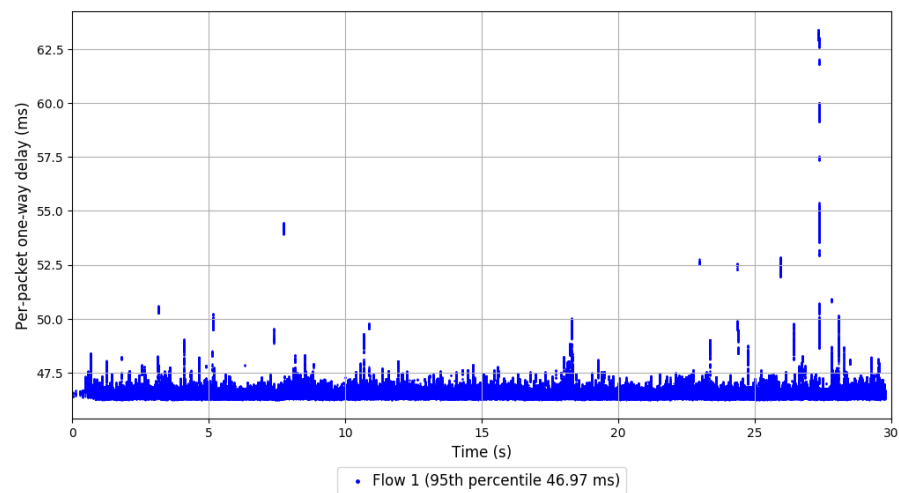
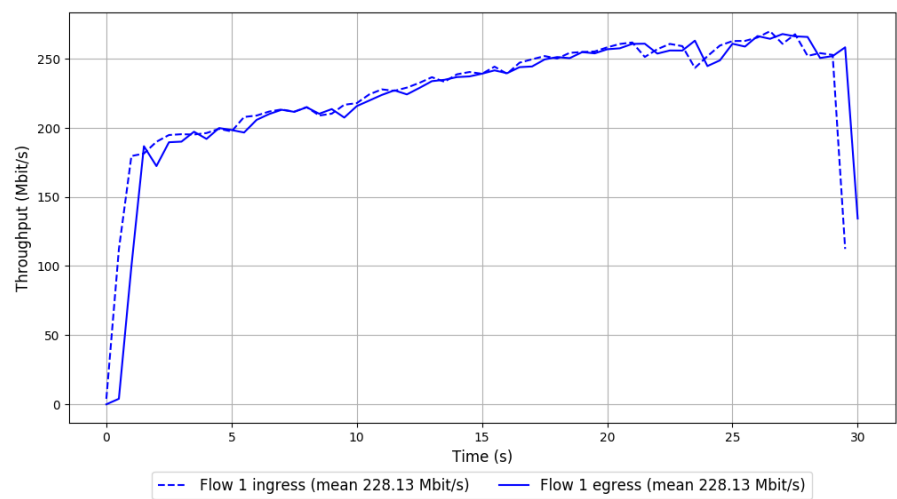


Run 4: Statistics of Indigo

Start at: 2019-01-18 05:57:39  
End at: 2019-01-18 05:58:09  
Local clock offset: 0.082 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 228.13 Mbit/s  
95th percentile per-packet one-way delay: 46.970 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 228.13 Mbit/s  
95th percentile per-packet one-way delay: 46.970 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link

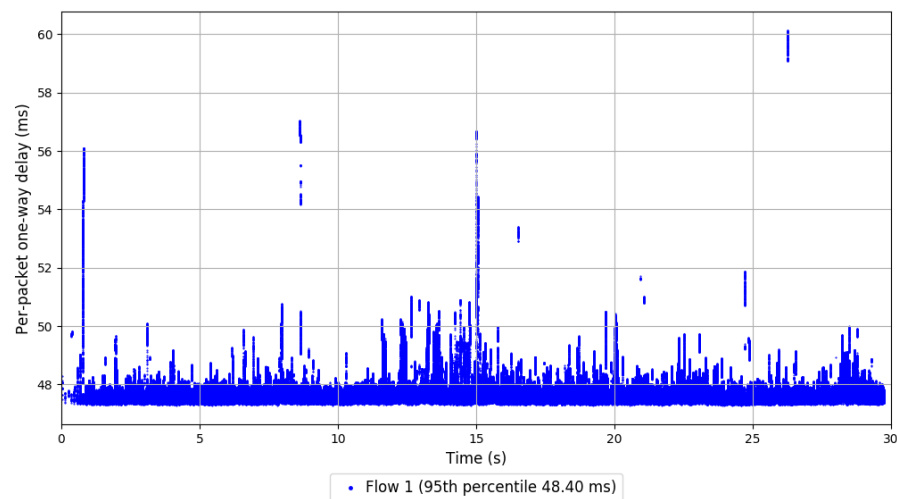
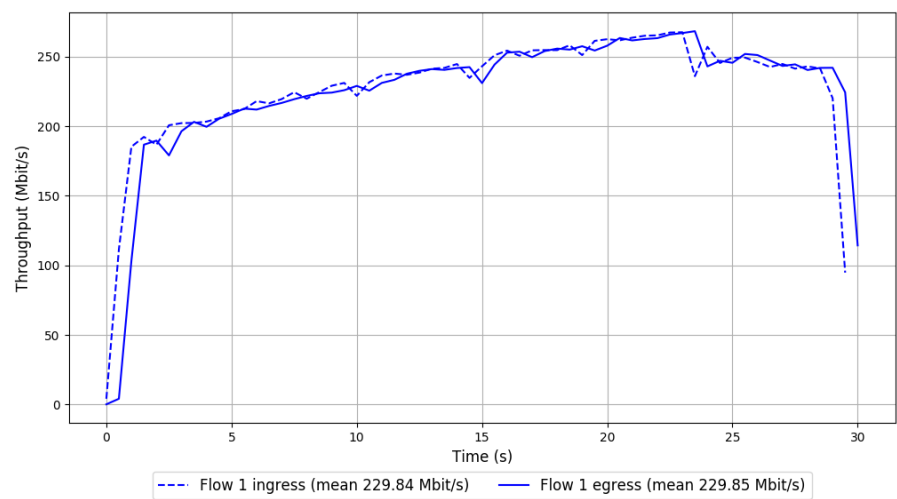


Run 5: Statistics of Indigo

Start at: 2019-01-18 06:31:58  
End at: 2019-01-18 06:32:28  
Local clock offset: -0.006 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 229.85 Mbit/s  
95th percentile per-packet one-way delay: 48.398 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 229.85 Mbit/s  
95th percentile per-packet one-way delay: 48.398 ms  
Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

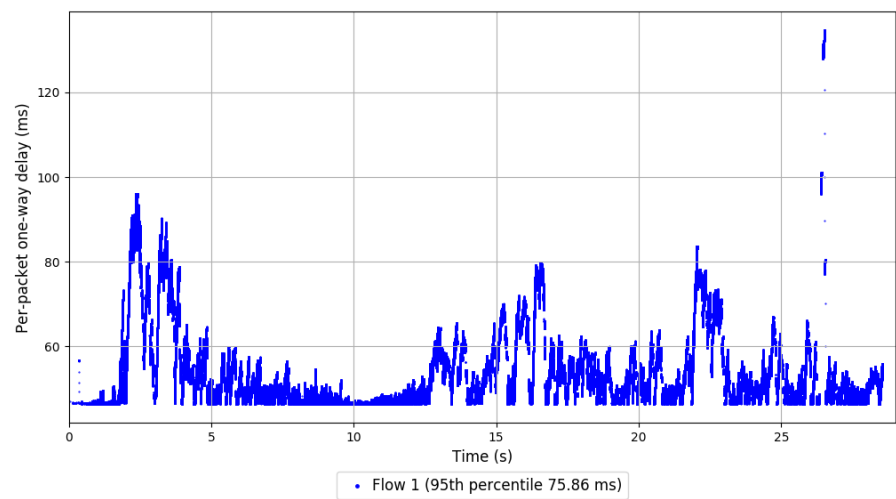
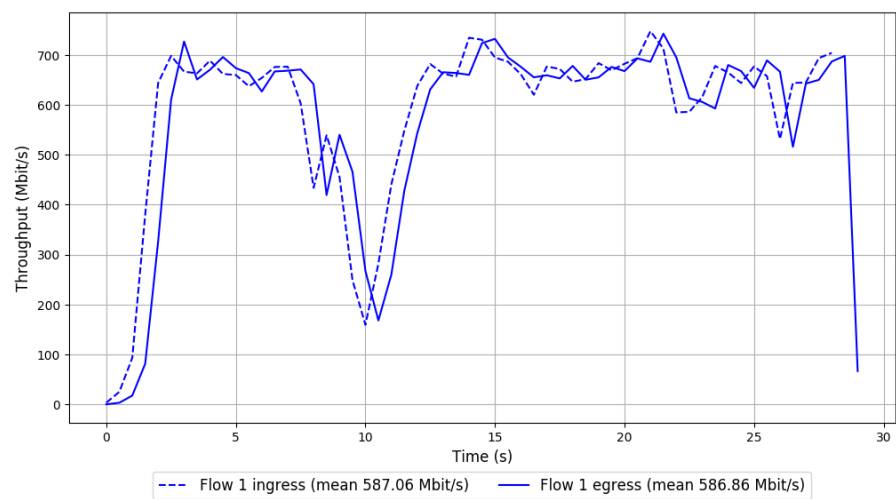


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-18 04:40:47  
End at: 2019-01-18 04:41:17  
Local clock offset: -0.083 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 586.86 Mbit/s  
95th percentile per-packet one-way delay: 75.865 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 586.86 Mbit/s  
95th percentile per-packet one-way delay: 75.865 ms  
Loss rate: 0.03%

Run 1: Report of Indigo-MusesC3 — Data Link

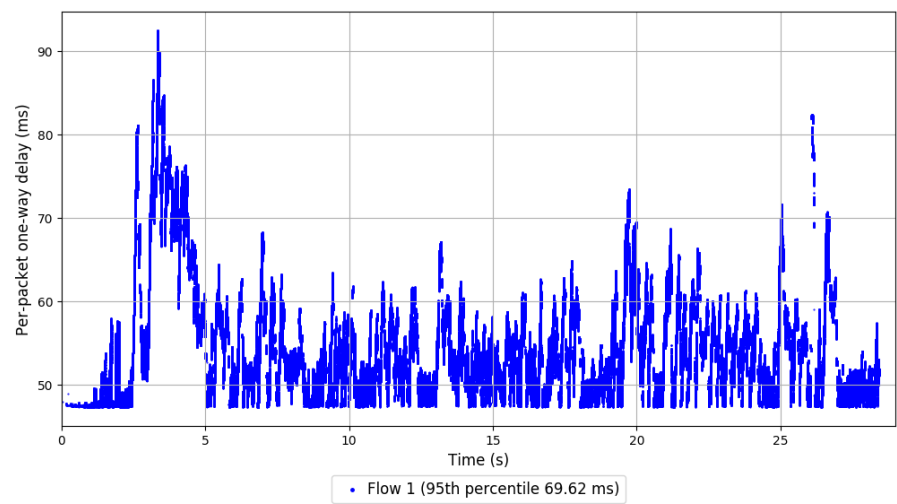
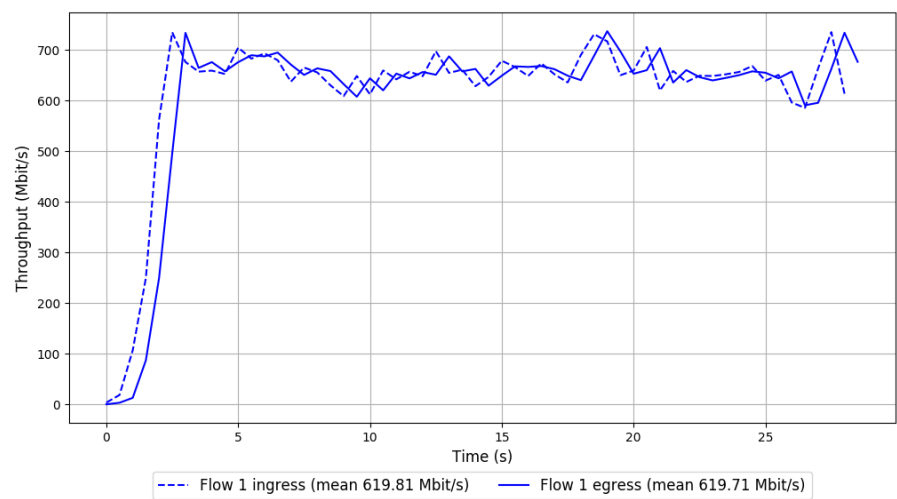


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-18 05:13:13  
End at: 2019-01-18 05:13:43  
Local clock offset: -0.082 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-18 08:21:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 619.71 Mbit/s  
95th percentile per-packet one-way delay: 69.622 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 619.71 Mbit/s  
95th percentile per-packet one-way delay: 69.622 ms  
Loss rate: 0.02%

Run 2: Report of Indigo-MusesC3 — Data Link



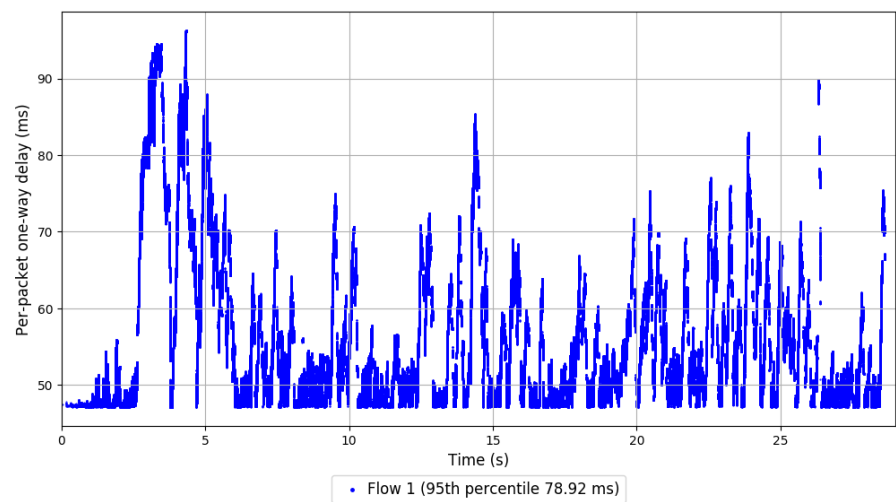
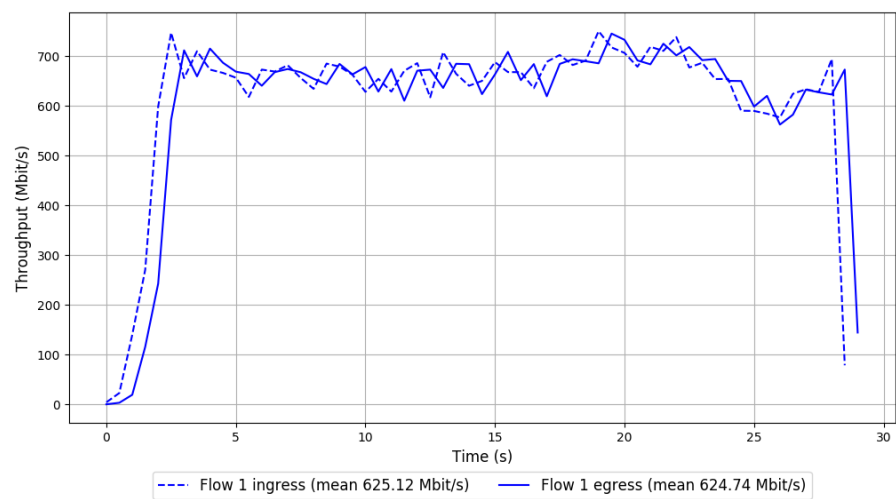


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-18 05:47:29  
End at: 2019-01-18 05:47:59  
Local clock offset: 0.106 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-01-18 08:21:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 624.74 Mbit/s  
95th percentile per-packet one-way delay: 78.919 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 624.74 Mbit/s  
95th percentile per-packet one-way delay: 78.919 ms  
Loss rate: 0.06%

Run 3: Report of Indigo-MusesC3 — Data Link

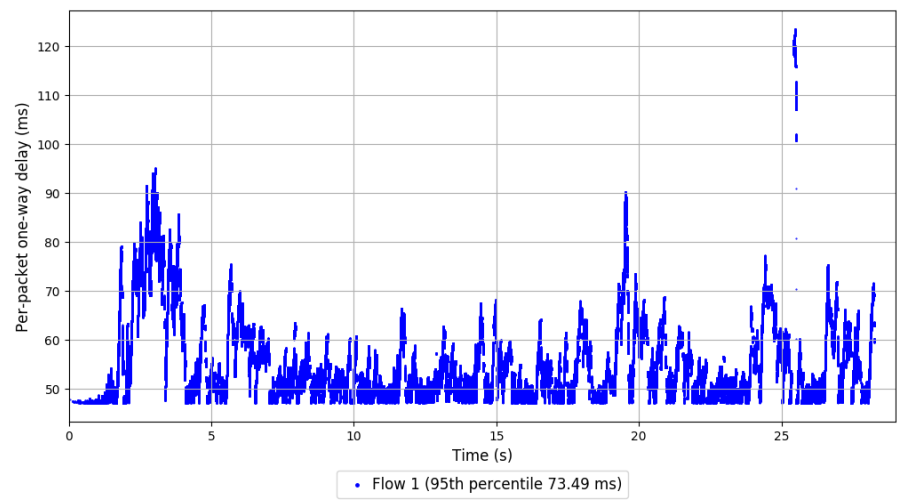
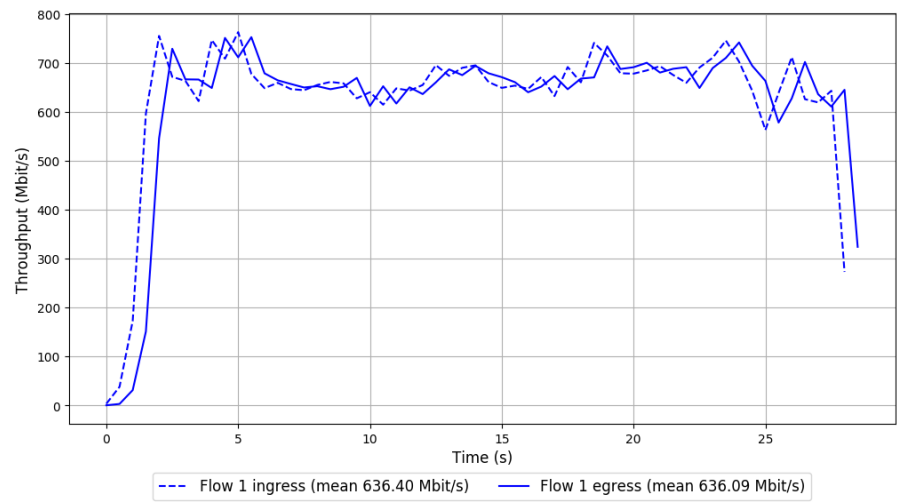


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-18 06:22:03  
End at: 2019-01-18 06:22:33  
Local clock offset: 0.176 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-18 08:21:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 636.09 Mbit/s  
95th percentile per-packet one-way delay: 73.488 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 636.09 Mbit/s  
95th percentile per-packet one-way delay: 73.488 ms  
Loss rate: 0.05%

Run 4: Report of Indigo-MusesC3 — Data Link

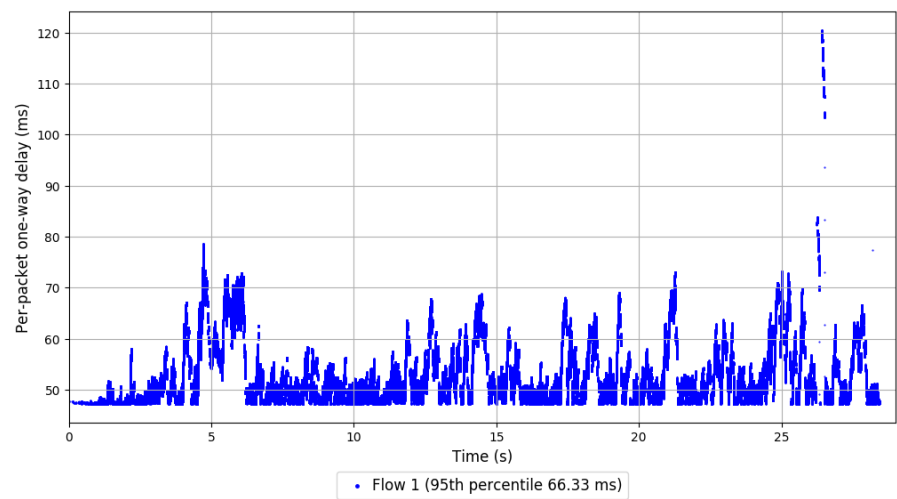
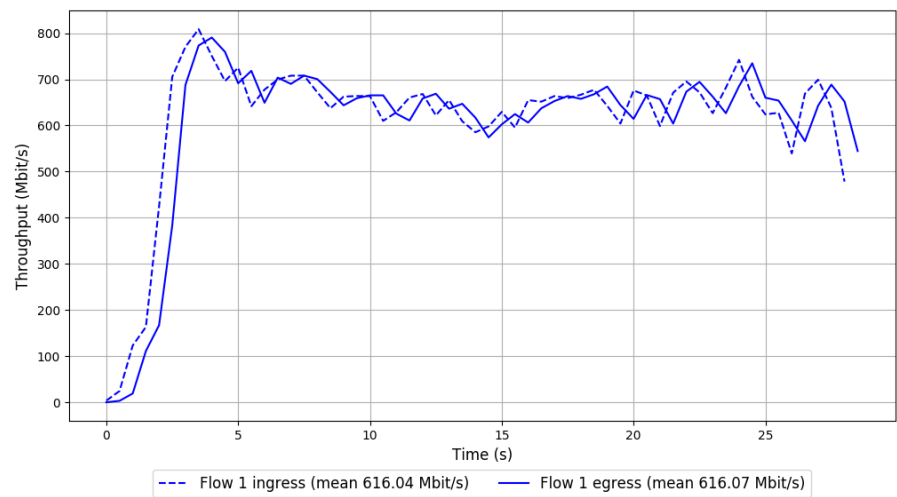


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-18 06:54:37  
End at: 2019-01-18 06:55:07  
Local clock offset: -0.073 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-01-18 08:21:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 616.07 Mbit/s  
95th percentile per-packet one-way delay: 66.335 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 616.07 Mbit/s  
95th percentile per-packet one-way delay: 66.335 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link

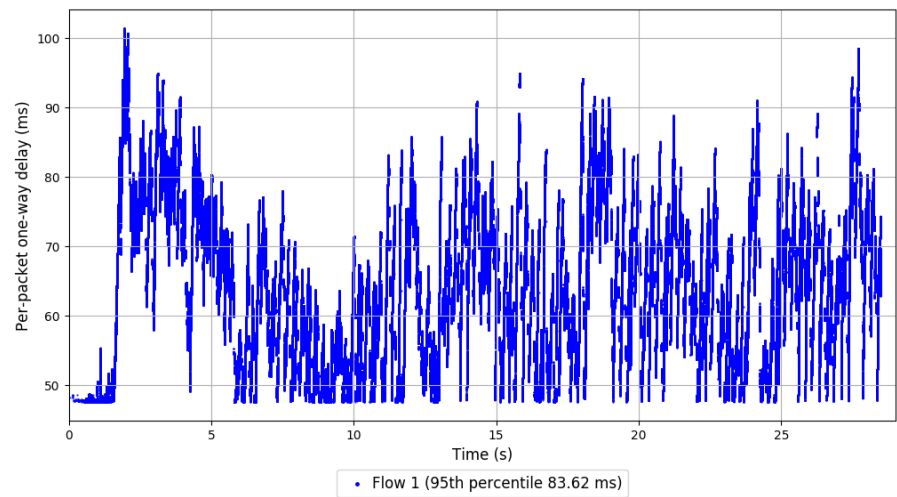
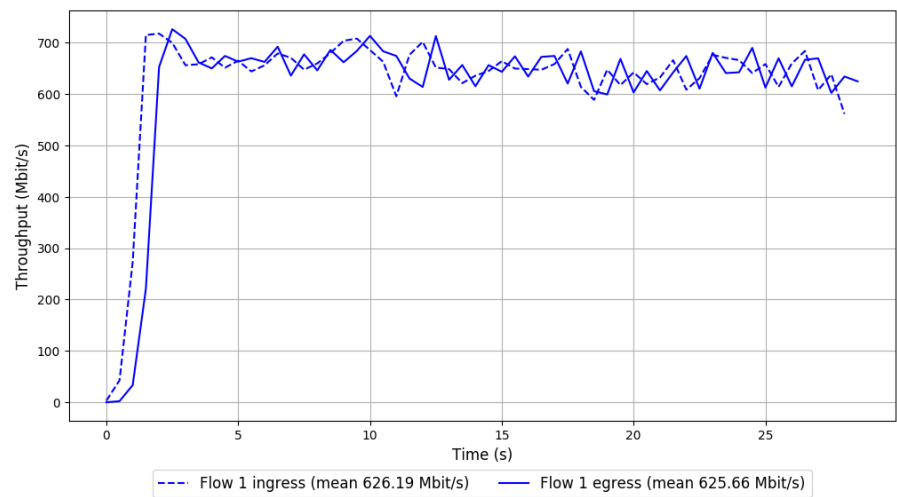


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-18 04:43:58  
End at: 2019-01-18 04:44:28  
Local clock offset: -0.063 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-01-18 08:21:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 625.66 Mbit/s  
95th percentile per-packet one-way delay: 83.621 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 625.66 Mbit/s  
95th percentile per-packet one-way delay: 83.621 ms  
Loss rate: 0.09%

Run 1: Report of Indigo-MusesC5 — Data Link



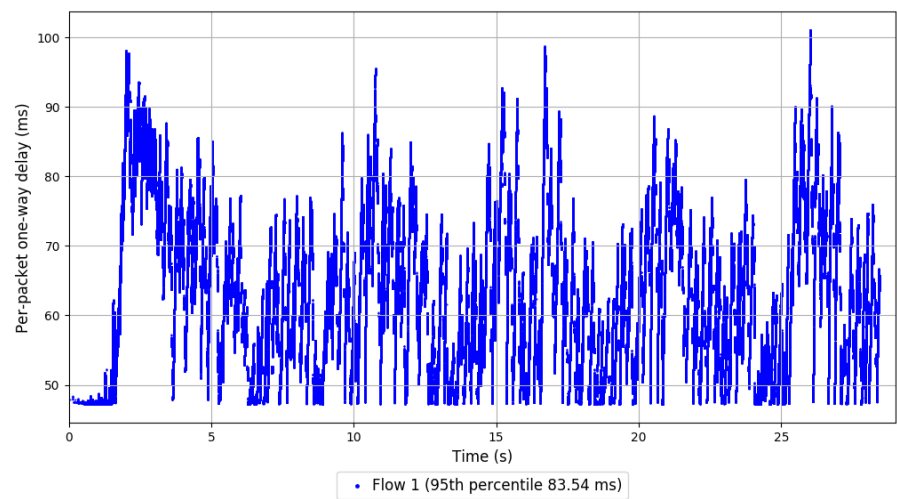
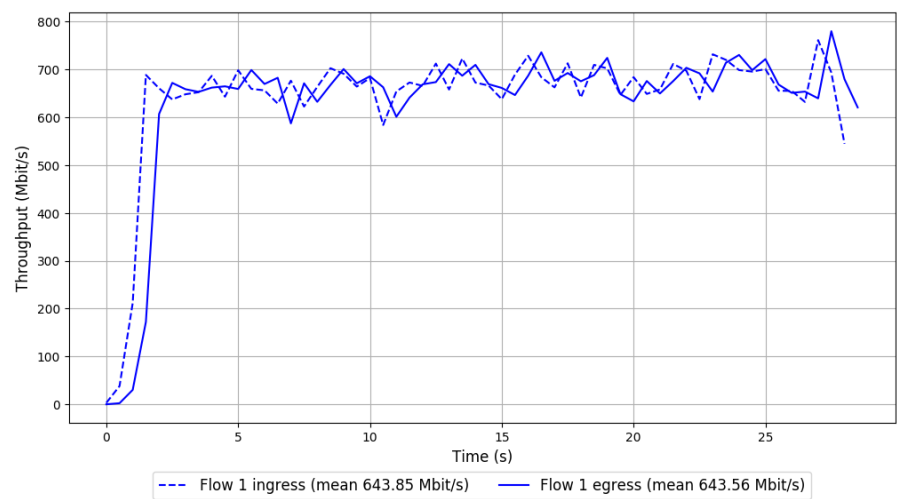


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-18 05:17:01  
End at: 2019-01-18 05:17:31  
Local clock offset: -0.056 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-01-18 08:23:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 643.56 Mbit/s  
95th percentile per-packet one-way delay: 83.543 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 643.56 Mbit/s  
95th percentile per-packet one-way delay: 83.543 ms  
Loss rate: 0.04%

Run 2: Report of Indigo-MusesC5 — Data Link

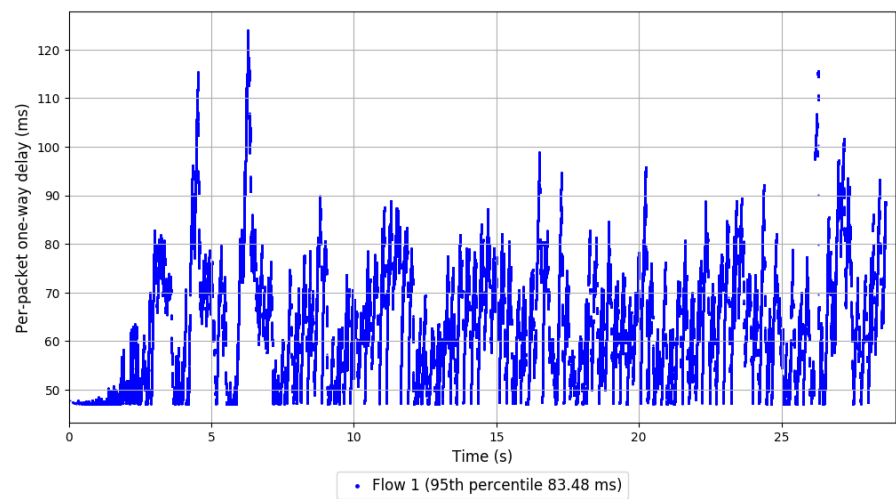
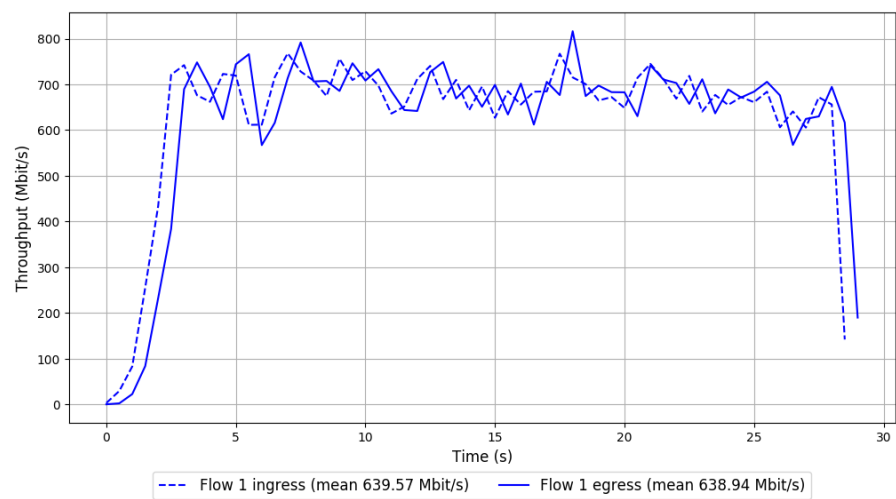


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-18 05:51:06  
End at: 2019-01-18 05:51:36  
Local clock offset: 0.112 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-01-18 08:23:21  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 638.94 Mbit/s  
95th percentile per-packet one-way delay: 83.482 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 638.94 Mbit/s  
95th percentile per-packet one-way delay: 83.482 ms  
Loss rate: 0.10%

Run 3: Report of Indigo-MusesC5 — Data Link

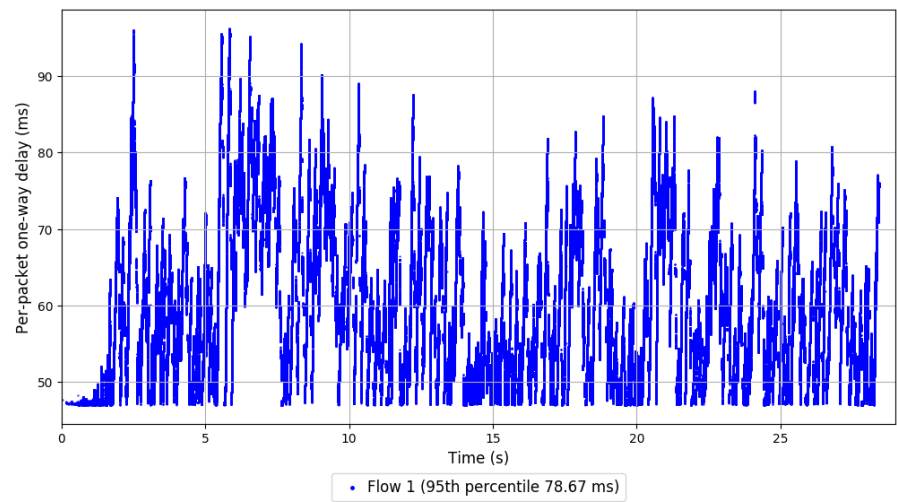
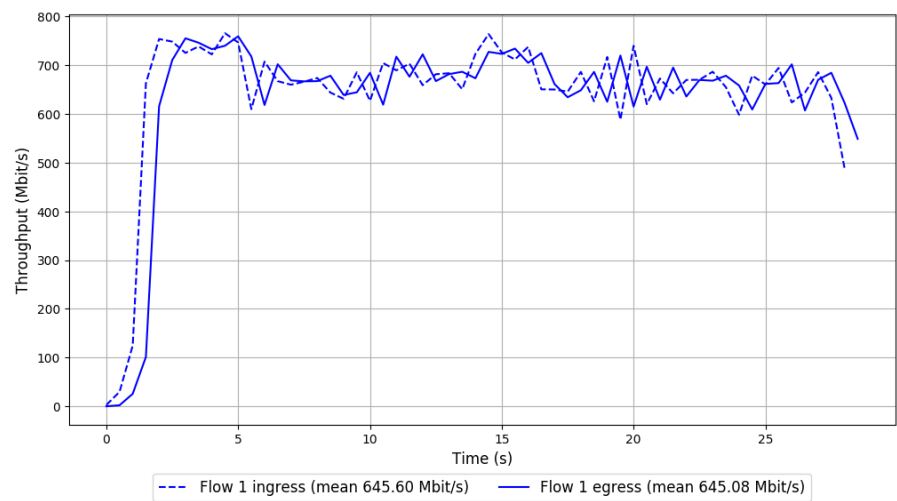


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-18 06:25:41  
End at: 2019-01-18 06:26:11  
Local clock offset: 0.339 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-01-18 08:29:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 645.08 Mbit/s  
95th percentile per-packet one-way delay: 78.675 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 645.08 Mbit/s  
95th percentile per-packet one-way delay: 78.675 ms  
Loss rate: 0.08%

Run 4: Report of Indigo-MusesC5 — Data Link

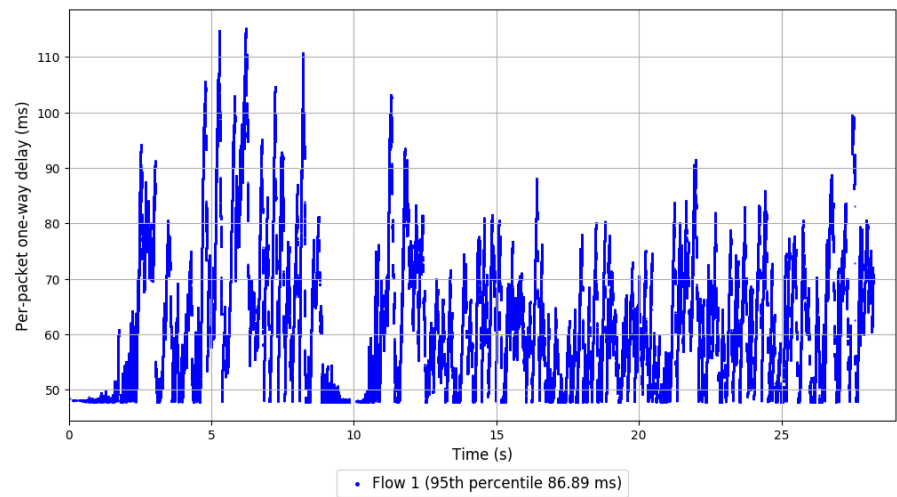
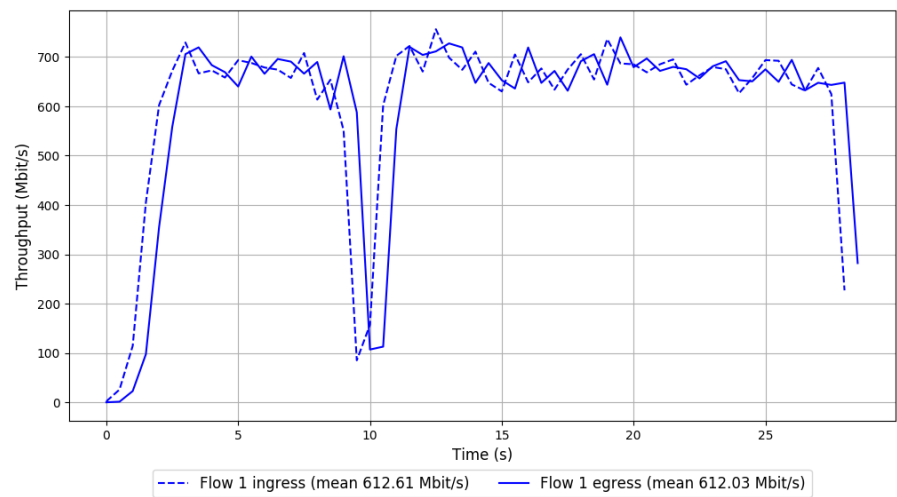


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-18 06:57:55  
End at: 2019-01-18 06:58:25  
Local clock offset: -0.34 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-01-18 08:30:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 612.03 Mbit/s  
95th percentile per-packet one-way delay: 86.885 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 612.03 Mbit/s  
95th percentile per-packet one-way delay: 86.885 ms  
Loss rate: 0.10%

Run 5: Report of Indigo-MusesC5 — Data Link



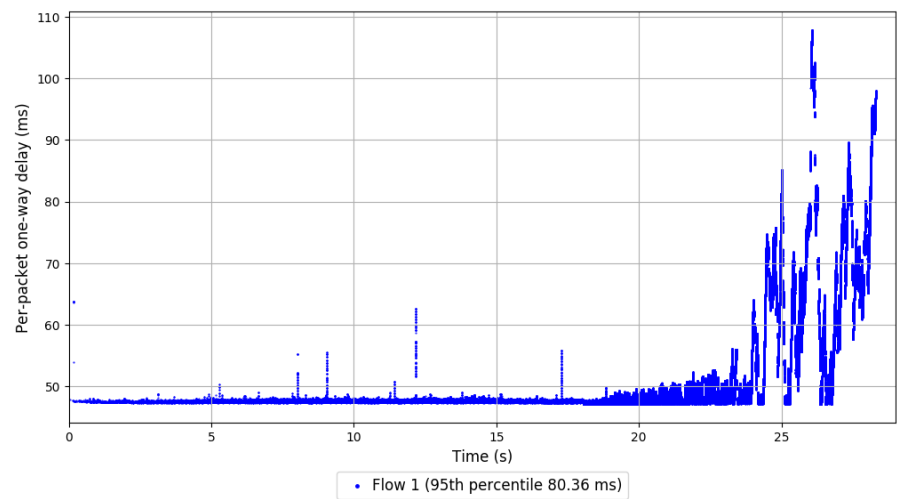
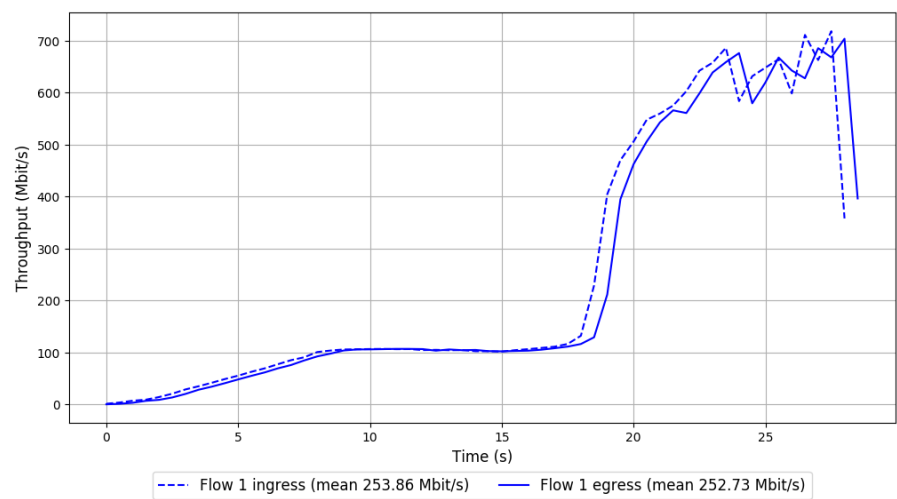


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-18 04:20:35
End at: 2019-01-18 04:21:05
Local clock offset: -0.149 ms
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-18 08:30:12
# Datalink statistics
-- Total of 1 flow:
Average throughput: 252.73 Mbit/s
95th percentile per-packet one-way delay: 80.357 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 252.73 Mbit/s
95th percentile per-packet one-way delay: 80.357 ms
Loss rate: 0.45%
```

Run 1: Report of Indigo-MusesD — Data Link

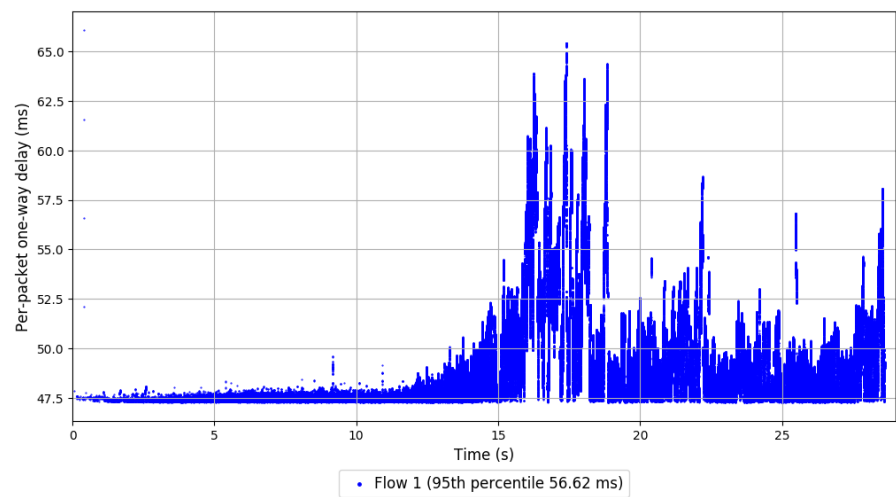
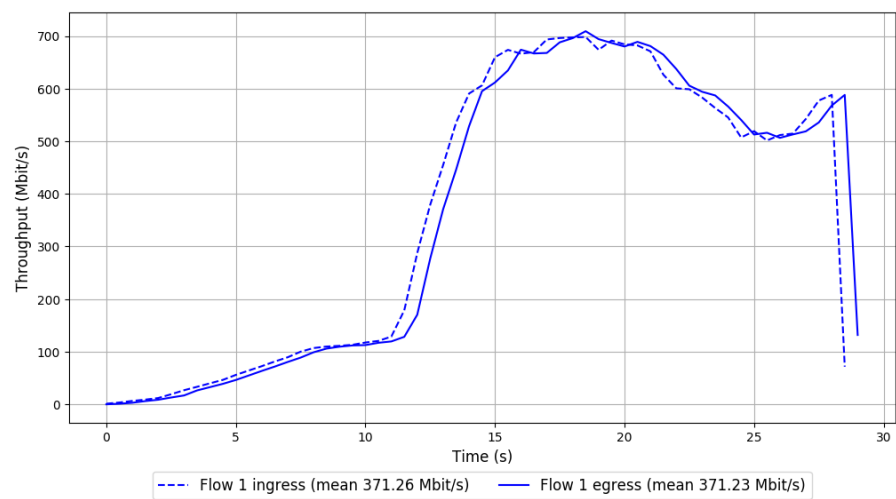


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-18 04:51:17  
End at: 2019-01-18 04:51:47  
Local clock offset: -0.109 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-01-18 08:30:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 371.23 Mbit/s  
95th percentile per-packet one-way delay: 56.615 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 371.23 Mbit/s  
95th percentile per-packet one-way delay: 56.615 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

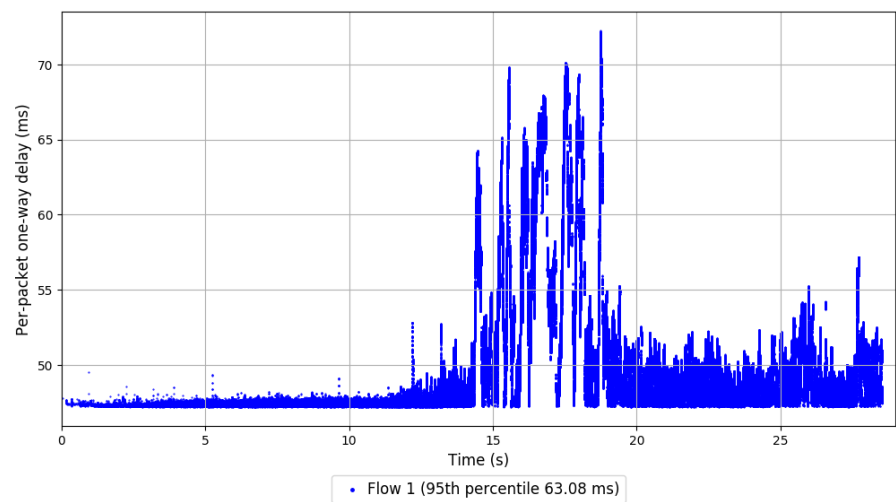
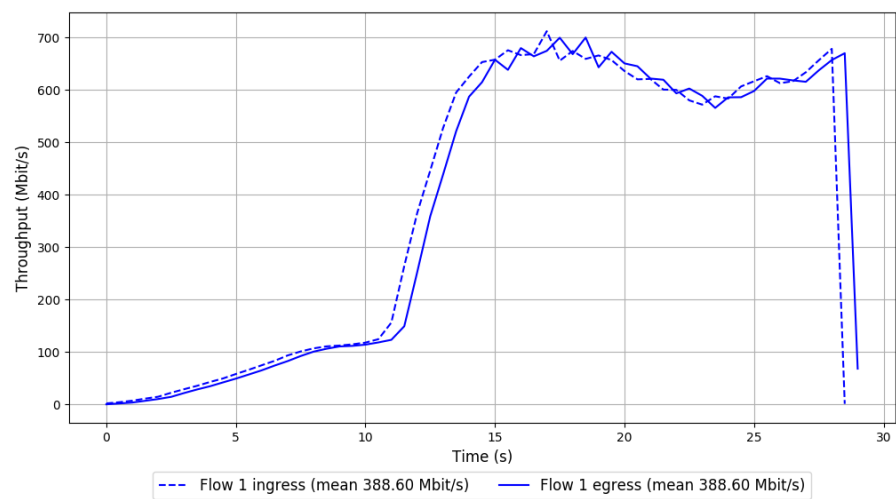


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-18 05:25:15  
End at: 2019-01-18 05:25:45  
Local clock offset: -0.043 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-01-18 08:30:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 388.60 Mbit/s  
95th percentile per-packet one-way delay: 63.077 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 388.60 Mbit/s  
95th percentile per-packet one-way delay: 63.077 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

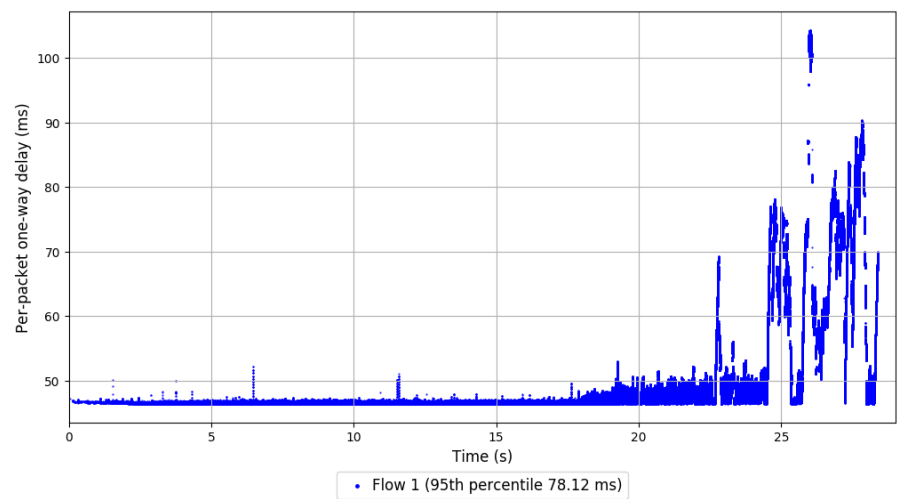
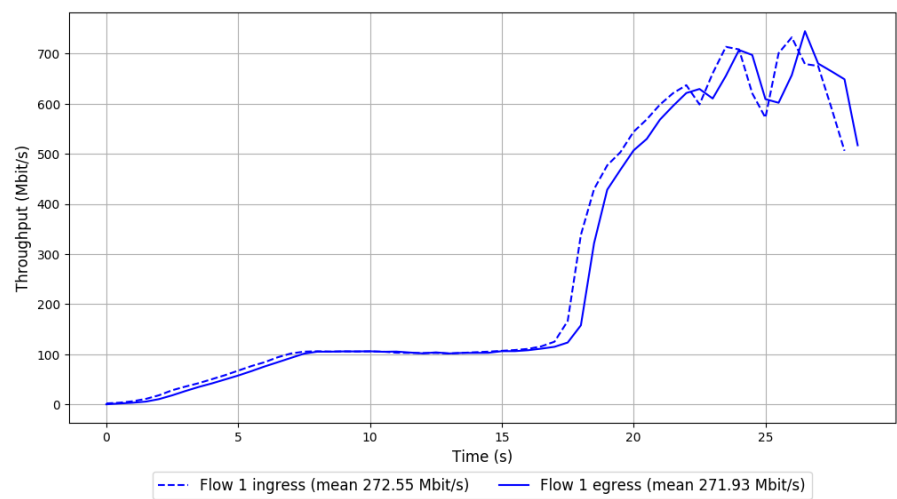


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-18 05:59:17  
End at: 2019-01-18 05:59:47  
Local clock offset: -0.056 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-01-18 08:30:12  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 271.93 Mbit/s  
95th percentile per-packet one-way delay: 78.117 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 271.93 Mbit/s  
95th percentile per-packet one-way delay: 78.117 ms  
Loss rate: 0.23%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-18 06:33:35

End at: 2019-01-18 06:34:05

Local clock offset: -0.012 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-18 08:30:12

# Datalink statistics

-- Total of 1 flow:

Average throughput: 368.08 Mbit/s

95th percentile per-packet one-way delay: 58.639 ms

Loss rate: 0.00%

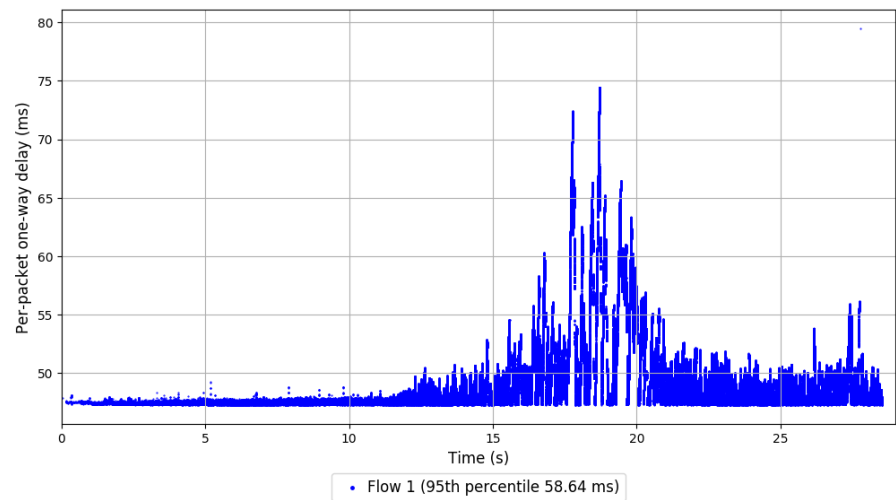
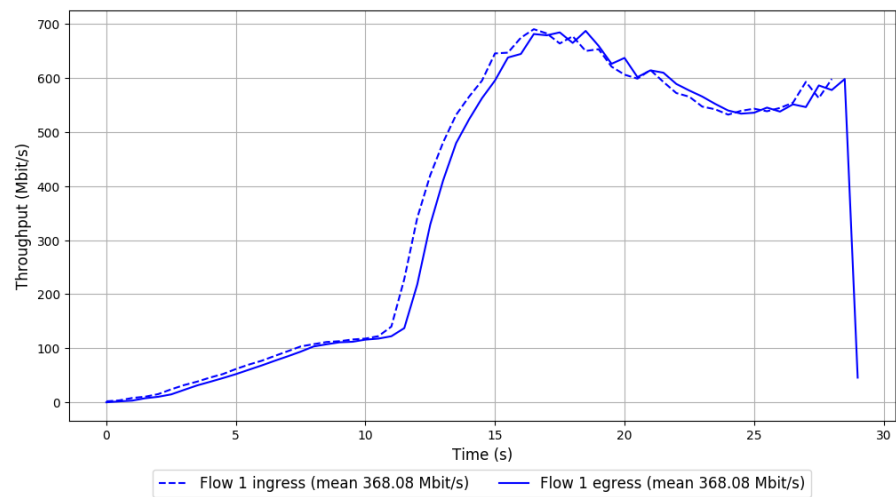
-- Flow 1:

Average throughput: 368.08 Mbit/s

95th percentile per-packet one-way delay: 58.639 ms

Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link

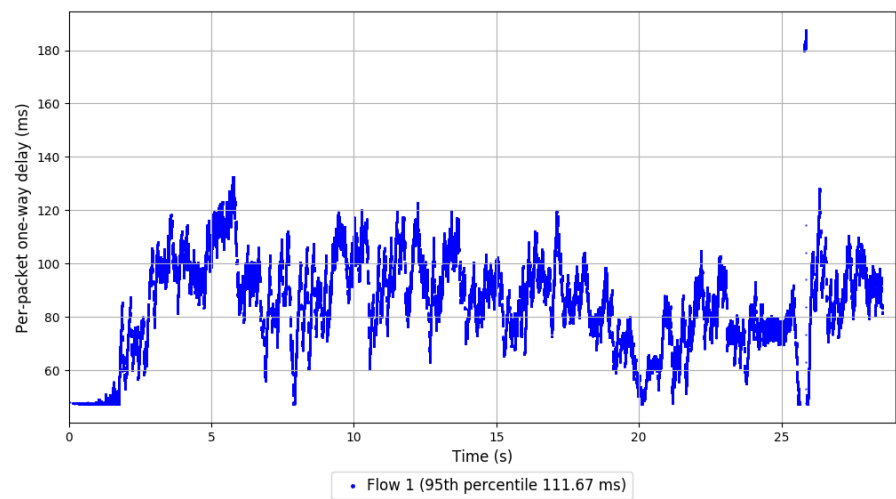
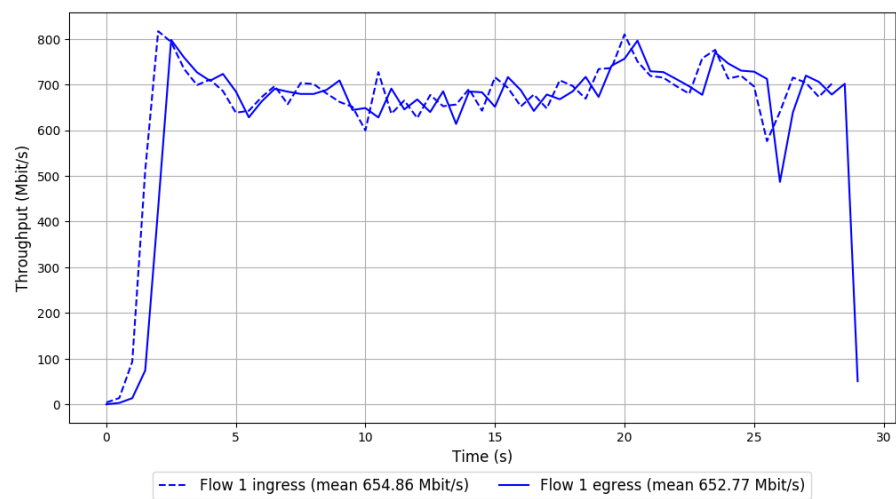


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-18 04:48:11  
End at: 2019-01-18 04:48:41  
Local clock offset: -0.072 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-01-18 08:36:20  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 652.77 Mbit/s  
95th percentile per-packet one-way delay: 111.671 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 652.77 Mbit/s  
95th percentile per-packet one-way delay: 111.671 ms  
Loss rate: 0.32%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-18 05:21:38

End at: 2019-01-18 05:22:08

Local clock offset: 0.103 ms

Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-01-18 08:37:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 687.52 Mbit/s

95th percentile per-packet one-way delay: 106.053 ms

Loss rate: 0.10%

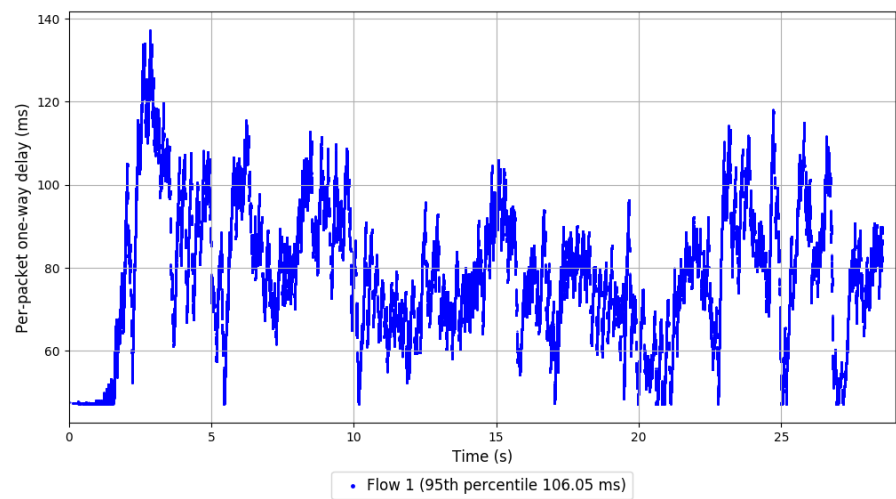
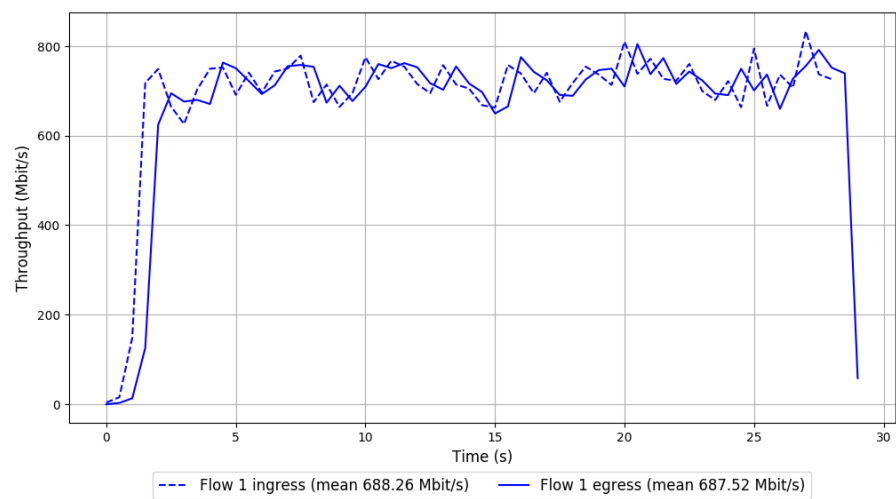
-- Flow 1:

Average throughput: 687.52 Mbit/s

95th percentile per-packet one-way delay: 106.053 ms

Loss rate: 0.10%

Run 2: Report of Indigo-MusesT — Data Link

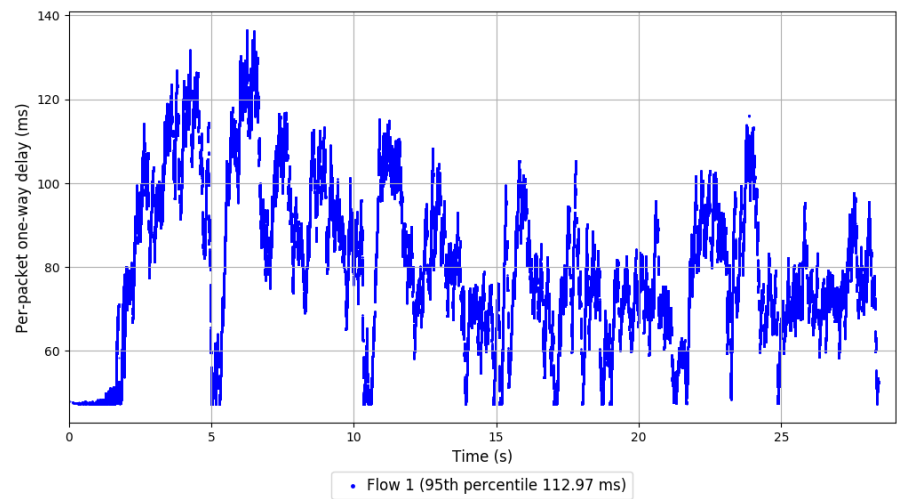
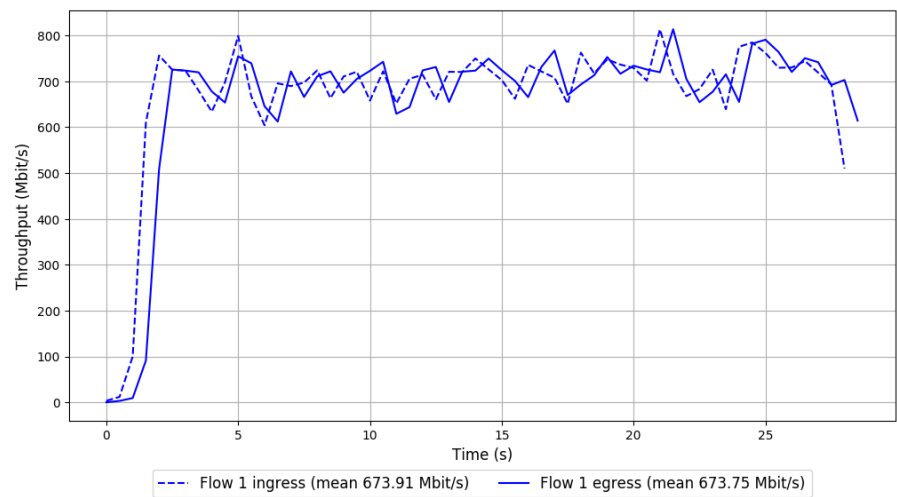


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-18 05:55:40  
End at: 2019-01-18 05:56:10  
Local clock offset: -0.016 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-01-18 08:38:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 673.75 Mbit/s  
95th percentile per-packet one-way delay: 112.974 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 673.75 Mbit/s  
95th percentile per-packet one-way delay: 112.974 ms  
Loss rate: 0.03%

Run 3: Report of Indigo-MusesT — Data Link



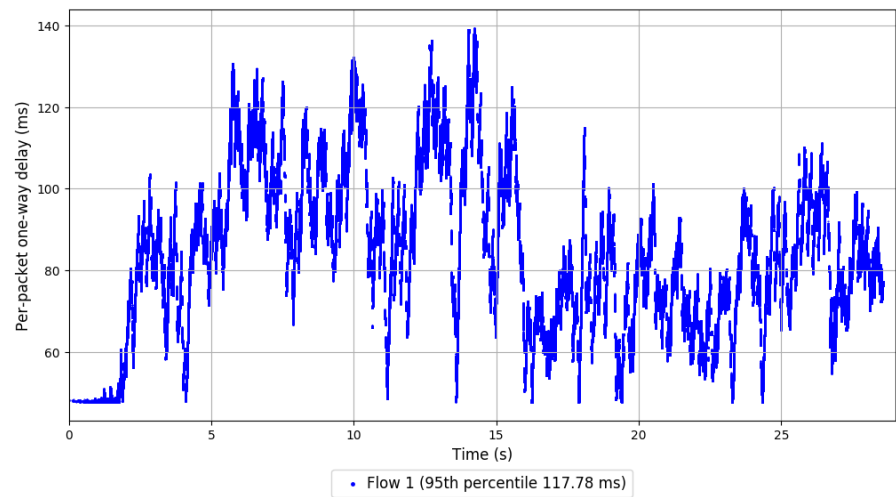
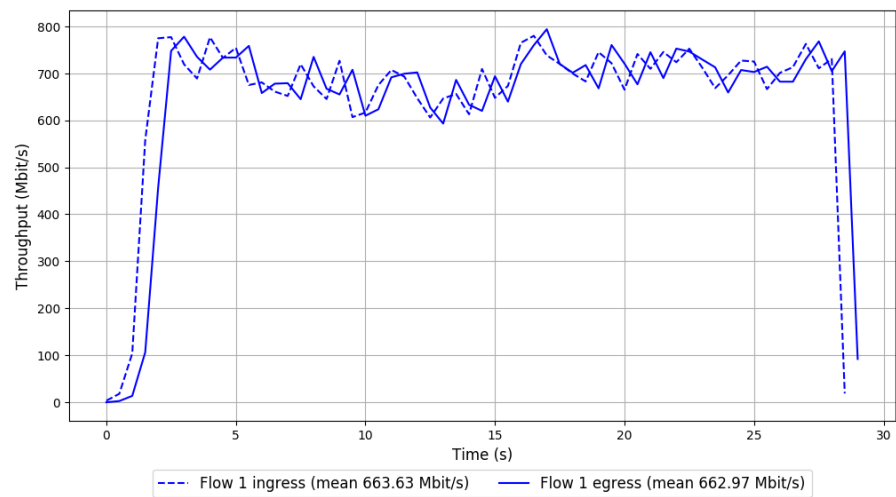


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-18 06:30:11  
End at: 2019-01-18 06:30:42  
Local clock offset: -0.388 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-18 08:39:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 662.97 Mbit/s  
95th percentile per-packet one-way delay: 117.784 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 662.97 Mbit/s  
95th percentile per-packet one-way delay: 117.784 ms  
Loss rate: 0.10%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-18 07:02:13

End at: 2019-01-18 07:02:43

Local clock offset: 0.067 ms

Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-18 08:39:52

# Datalink statistics

-- Total of 1 flow:

Average throughput: 667.16 Mbit/s

95th percentile per-packet one-way delay: 106.163 ms

Loss rate: 0.08%

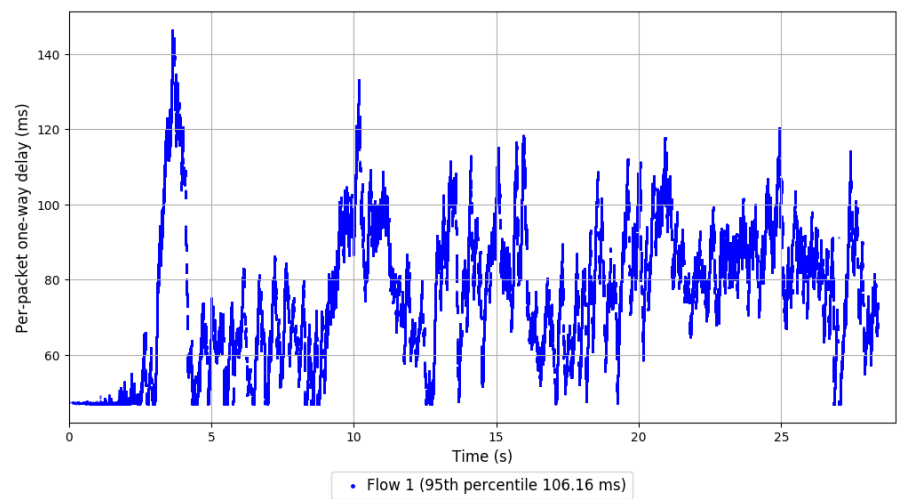
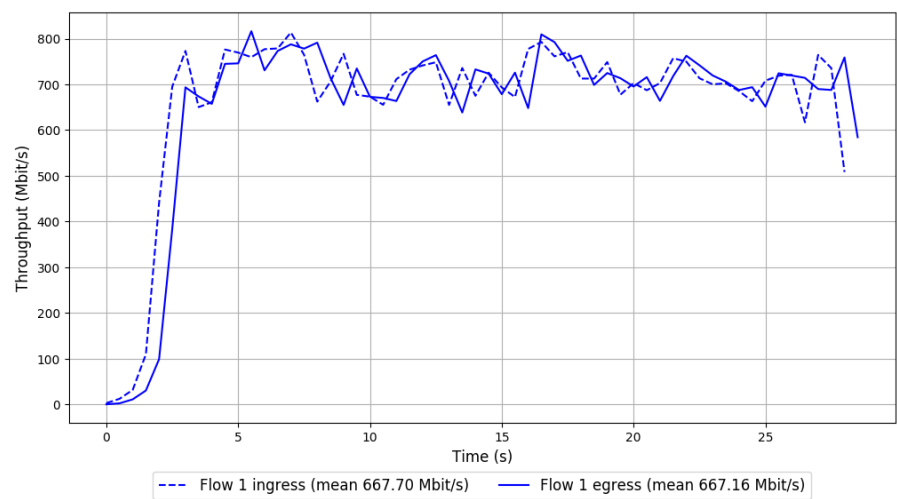
-- Flow 1:

Average throughput: 667.16 Mbit/s

95th percentile per-packet one-way delay: 106.163 ms

Loss rate: 0.08%

Run 5: Report of Indigo-MusesT — Data Link

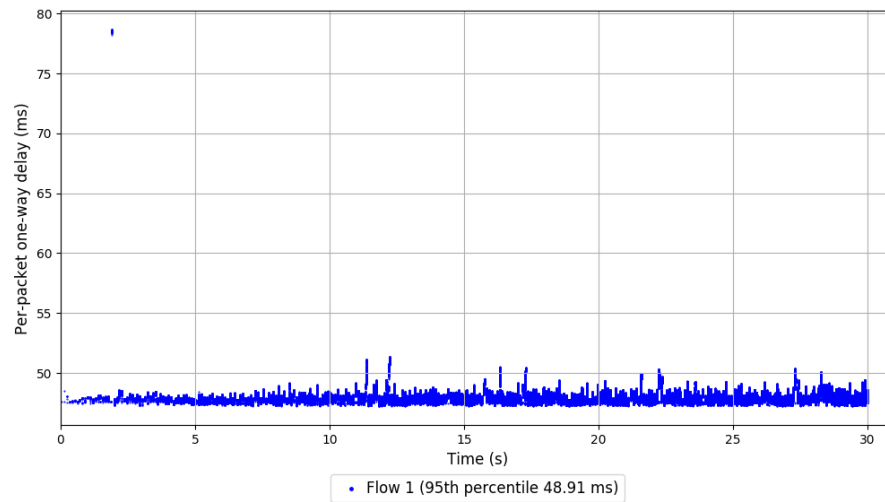
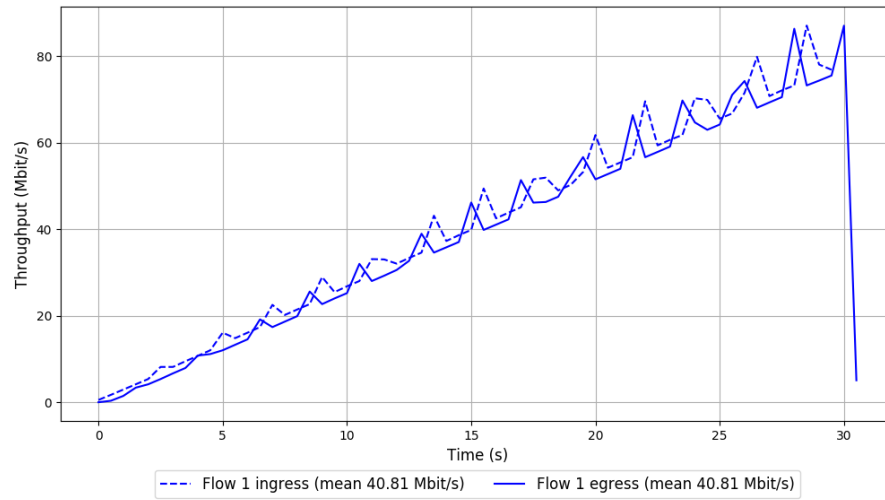


Run 1: Statistics of LEDBAT

Start at: 2019-01-18 04:21:54  
End at: 2019-01-18 04:22:24  
Local clock offset: -0.103 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-01-18 08:39:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 40.81 Mbit/s  
95th percentile per-packet one-way delay: 48.906 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 40.81 Mbit/s  
95th percentile per-packet one-way delay: 48.906 ms  
Loss rate: 0.00%

# Run 1: Report of LEDBAT — Data Link

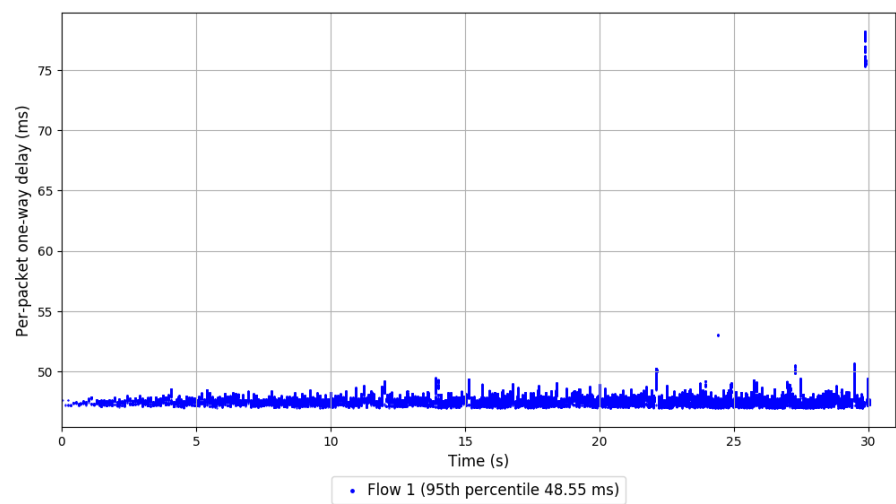
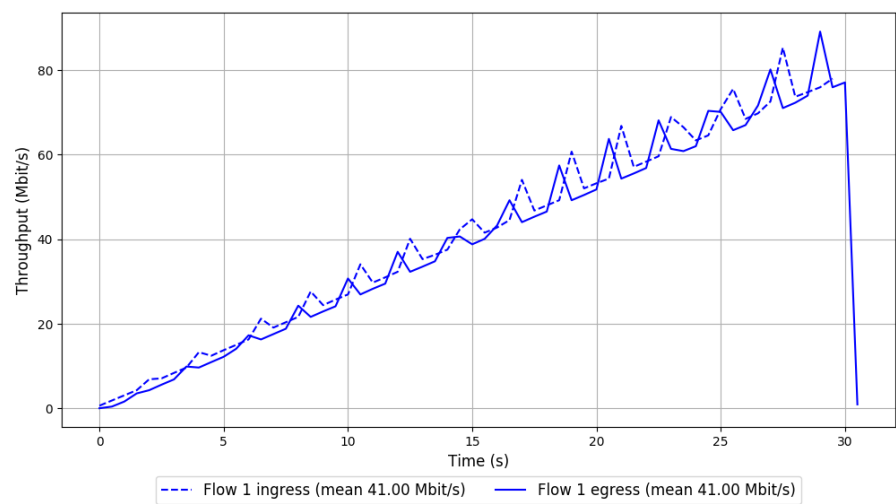


Run 2: Statistics of LEDBAT

Start at: 2019-01-18 04:52:41  
End at: 2019-01-18 04:53:11  
Local clock offset: 0.295 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-01-18 08:39:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.00 Mbit/s  
95th percentile per-packet one-way delay: 48.549 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 41.00 Mbit/s  
95th percentile per-packet one-way delay: 48.549 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



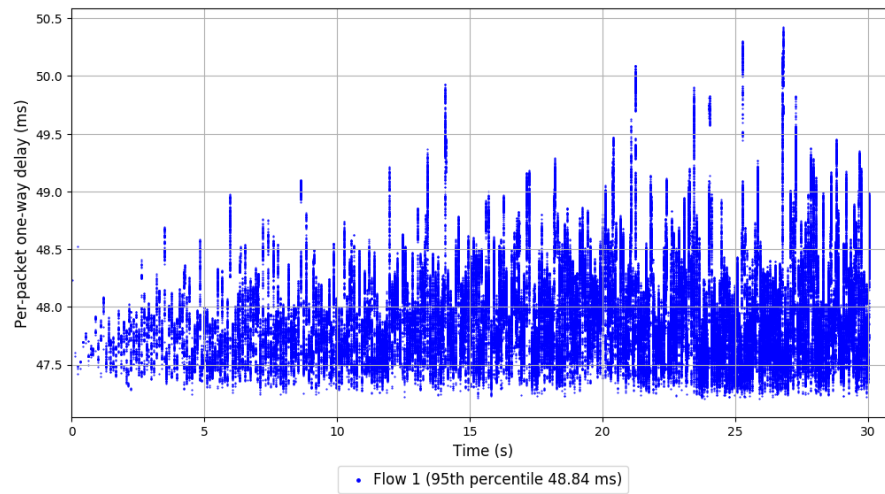
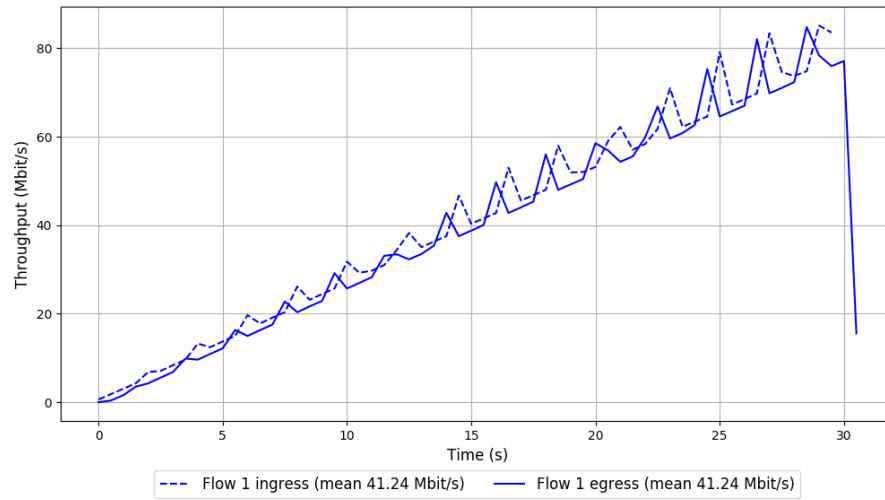


Run 3: Statistics of LEDBAT

Start at: 2019-01-18 05:26:48  
End at: 2019-01-18 05:27:18  
Local clock offset: -0.05 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-01-18 08:39:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.24 Mbit/s  
95th percentile per-packet one-way delay: 48.845 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 41.24 Mbit/s  
95th percentile per-packet one-way delay: 48.845 ms  
Loss rate: 0.00%

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

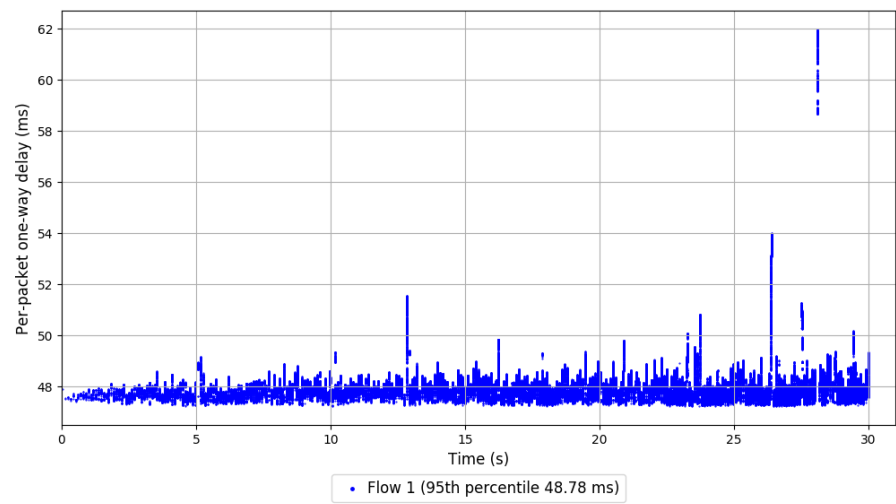
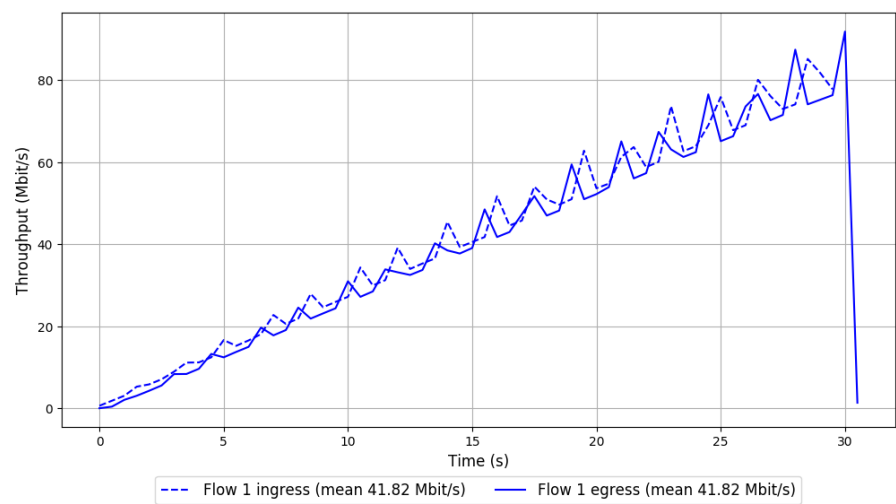


Run 4: Statistics of LEDBAT

Start at: 2019-01-18 06:00:46  
End at: 2019-01-18 06:01:16  
Local clock offset: 0.046 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 08:39:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.82 Mbit/s  
95th percentile per-packet one-way delay: 48.778 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 41.82 Mbit/s  
95th percentile per-packet one-way delay: 48.778 ms  
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

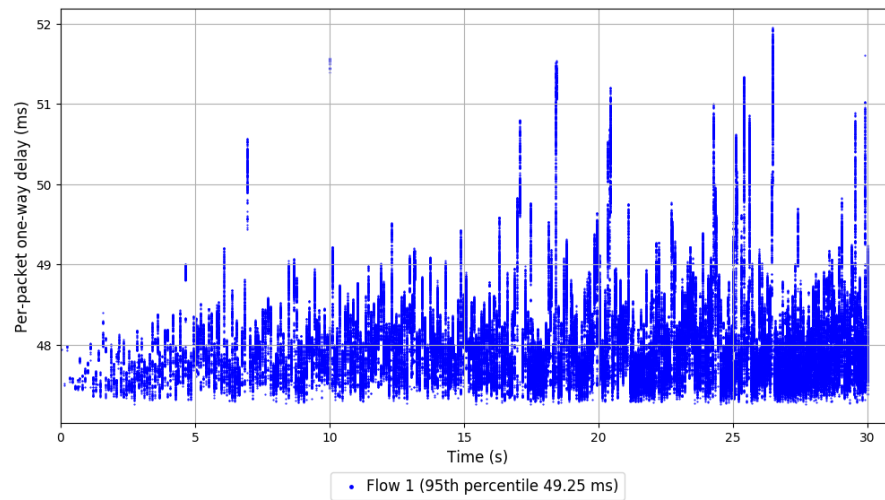
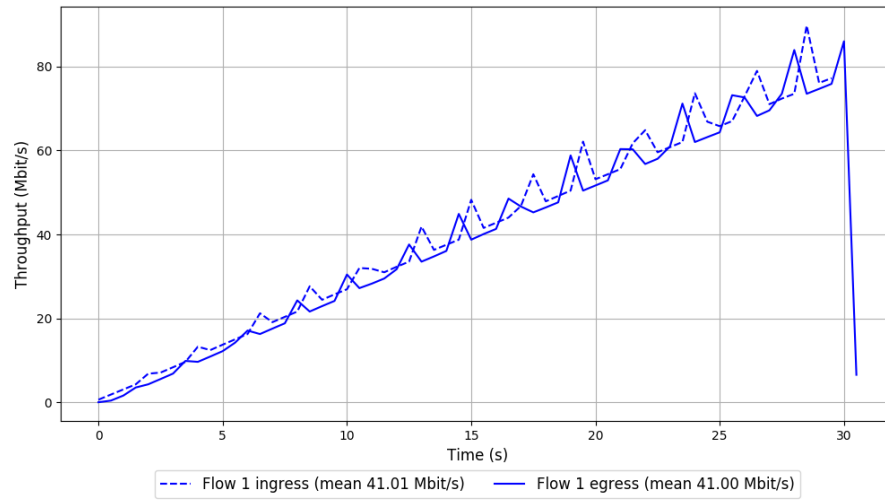


Run 5: Statistics of LEDBAT

Start at: 2019-01-18 06:35:07  
End at: 2019-01-18 06:35:37  
Local clock offset: 0.042 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-01-18 08:39:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 41.00 Mbit/s  
95th percentile per-packet one-way delay: 49.254 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 41.00 Mbit/s  
95th percentile per-packet one-way delay: 49.254 ms  
Loss rate: 0.00%

## Run 5: Report of LEDBAT — Data Link

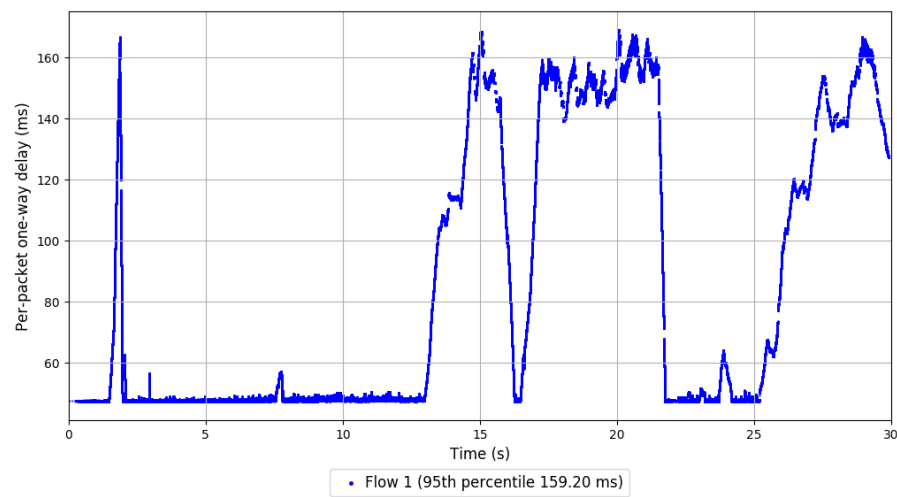
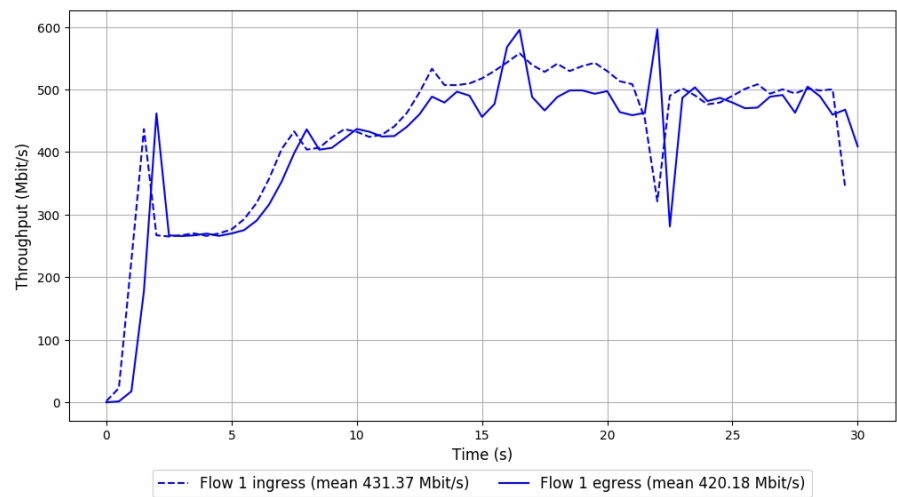


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-18 04:31:51
End at: 2019-01-18 04:32:21
Local clock offset: -0.14 ms
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-01-18 08:47:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 420.18 Mbit/s
95th percentile per-packet one-way delay: 159.202 ms
Loss rate: 2.59%
-- Flow 1:
Average throughput: 420.18 Mbit/s
95th percentile per-packet one-way delay: 159.202 ms
Loss rate: 2.59%
```

Run 1: Report of PCC-Allegro — Data Link



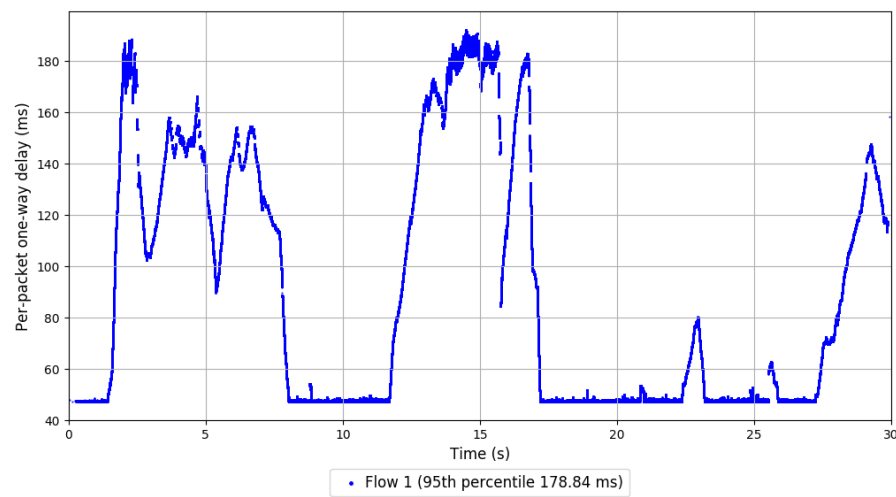
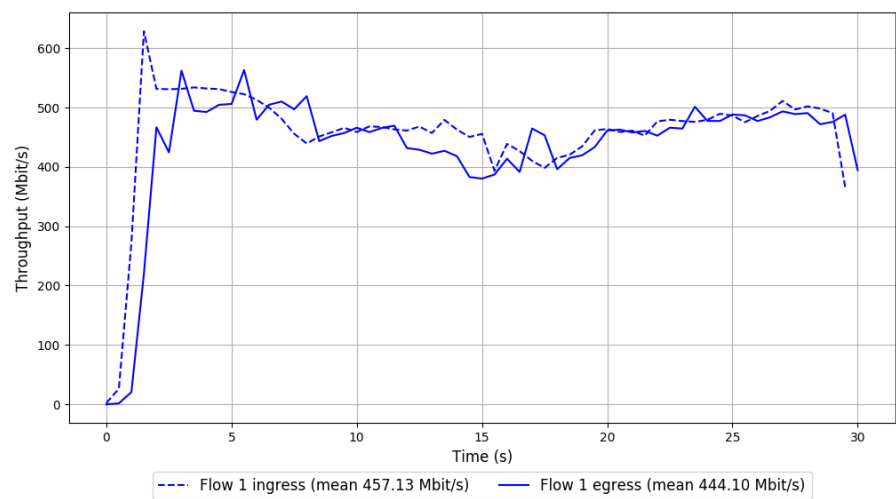


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-18 05:03:10  
End at: 2019-01-18 05:03:40  
Local clock offset: -0.072 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-18 08:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 444.10 Mbit/s  
95th percentile per-packet one-way delay: 178.839 ms  
Loss rate: 2.85%  
-- Flow 1:  
Average throughput: 444.10 Mbit/s  
95th percentile per-packet one-way delay: 178.839 ms  
Loss rate: 2.85%

Run 2: Report of PCC-Allegro — Data Link

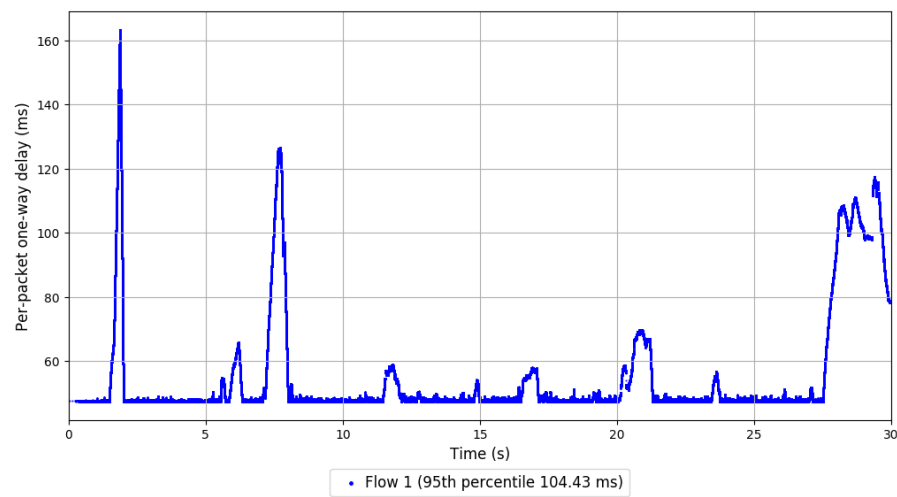
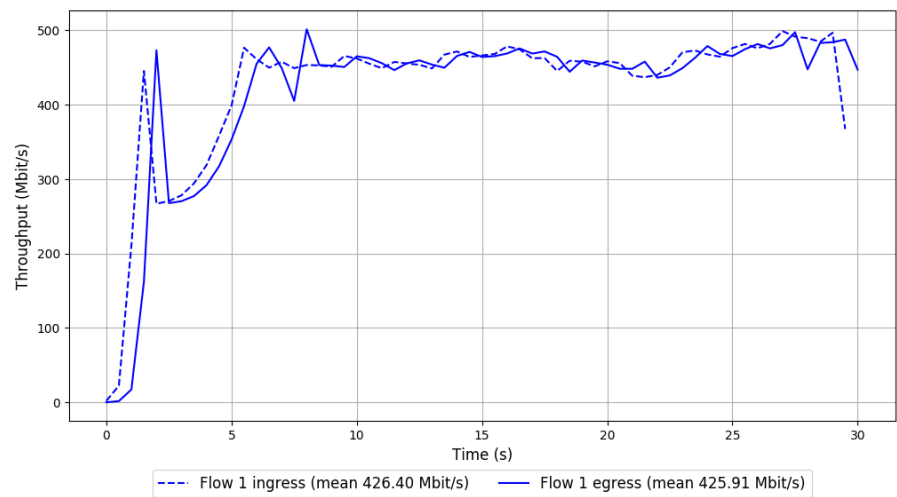


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-18 05:37:30  
End at: 2019-01-18 05:38:00  
Local clock offset: -0.056 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-01-18 08:51:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 425.91 Mbit/s  
95th percentile per-packet one-way delay: 104.431 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 425.91 Mbit/s  
95th percentile per-packet one-way delay: 104.431 ms  
Loss rate: 0.11%

Run 3: Report of PCC-Allegro — Data Link

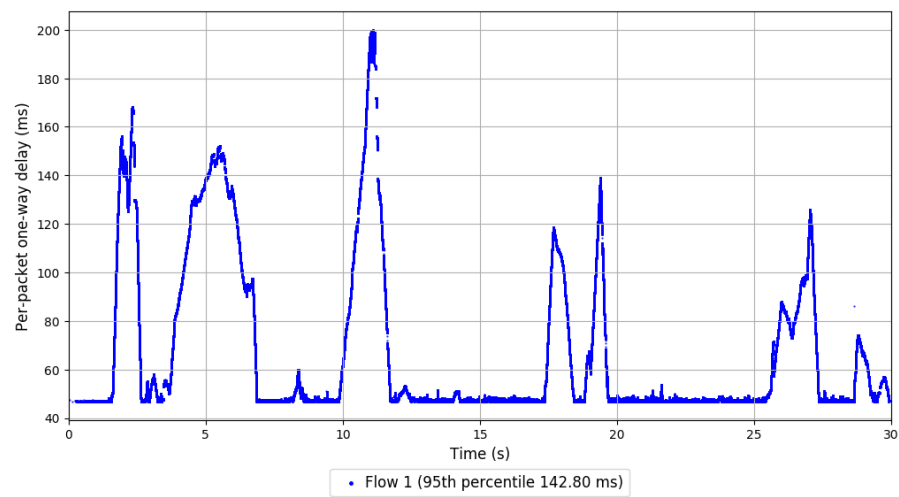
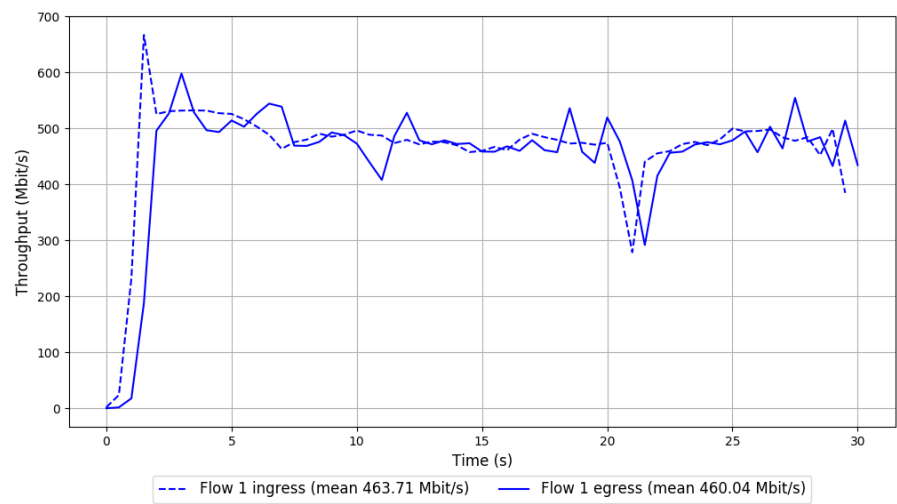


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-18 06:11:51  
End at: 2019-01-18 06:12:21  
Local clock offset: 0.52 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-18 08:53:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 460.04 Mbit/s  
95th percentile per-packet one-way delay: 142.798 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 460.04 Mbit/s  
95th percentile per-packet one-way delay: 142.798 ms  
Loss rate: 0.79%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-18 06:45:27

End at: 2019-01-18 06:45:57

Local clock offset: 0.189 ms

Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-18 08:53:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 406.65 Mbit/s

95th percentile per-packet one-way delay: 171.579 ms

Loss rate: 2.40%

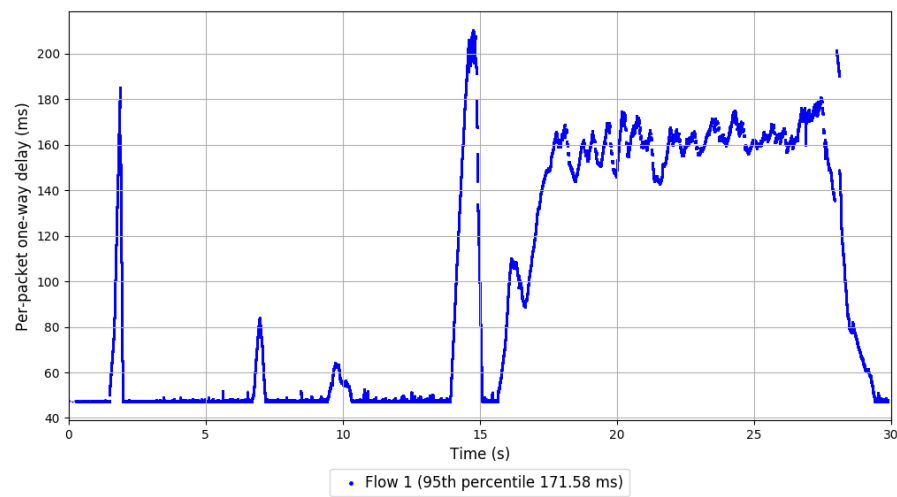
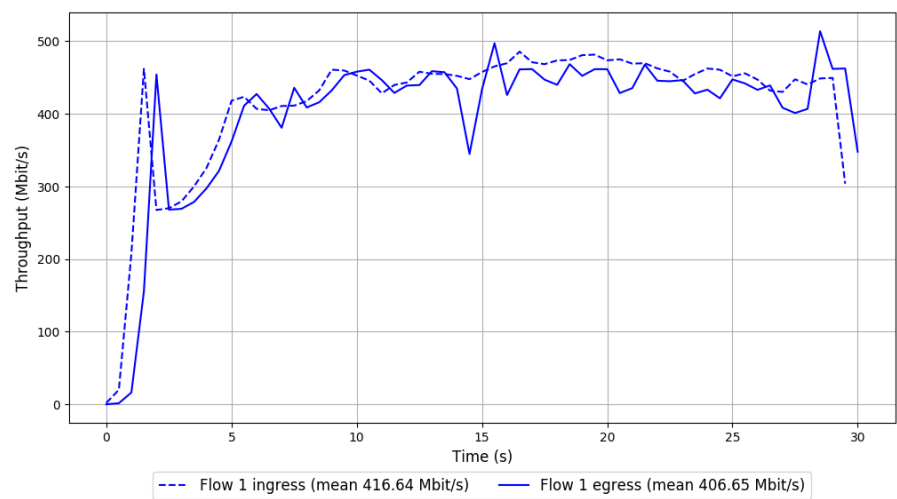
-- Flow 1:

Average throughput: 406.65 Mbit/s

95th percentile per-packet one-way delay: 171.579 ms

Loss rate: 2.40%

Run 5: Report of PCC-Allegro — Data Link



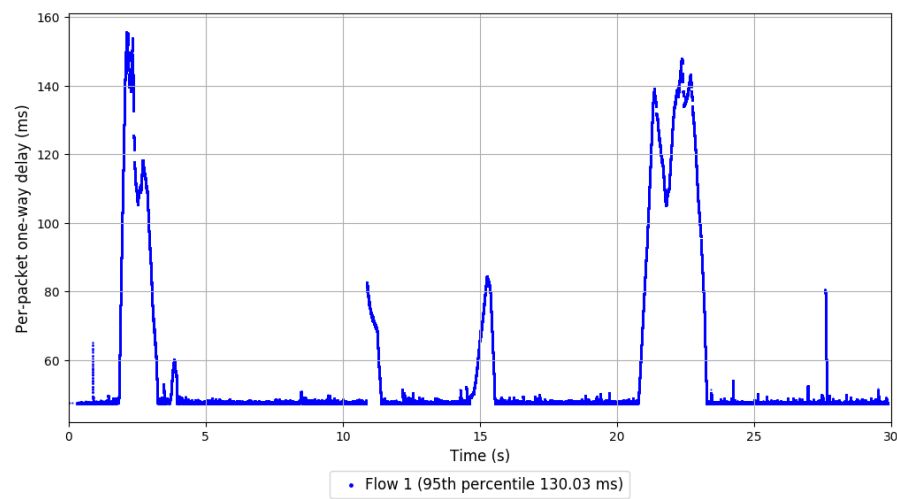
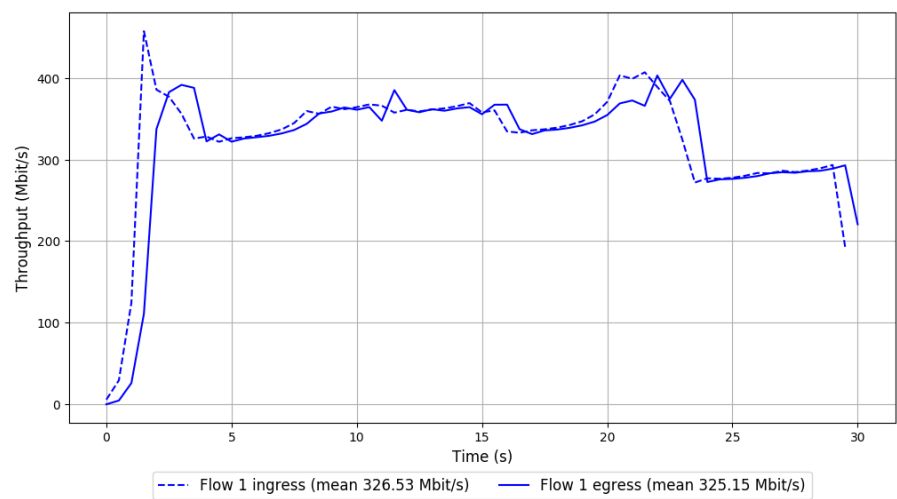


Run 1: Statistics of PCC-Expr

Start at: 2019-01-18 04:42:22  
End at: 2019-01-18 04:42:52  
Local clock offset: -0.093 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-01-18 08:53:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 325.15 Mbit/s  
95th percentile per-packet one-way delay: 130.026 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 325.15 Mbit/s  
95th percentile per-packet one-way delay: 130.026 ms  
Loss rate: 0.42%

Run 1: Report of PCC-Expr — Data Link

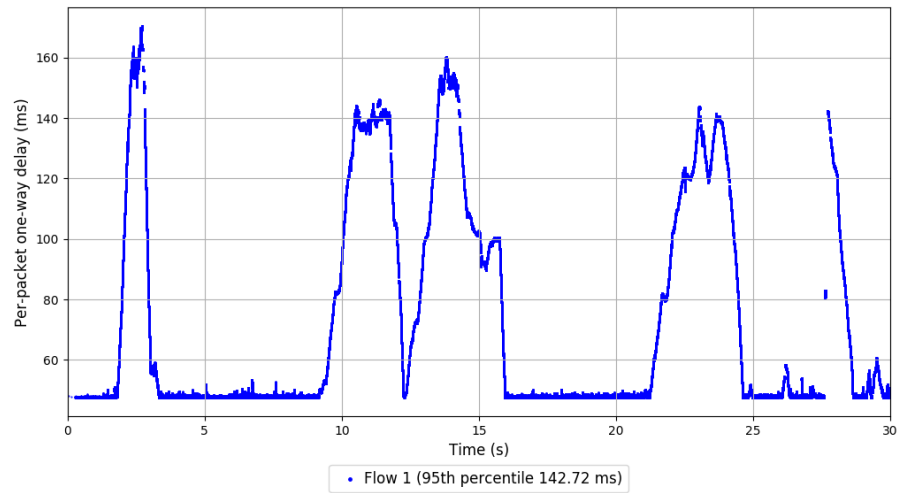
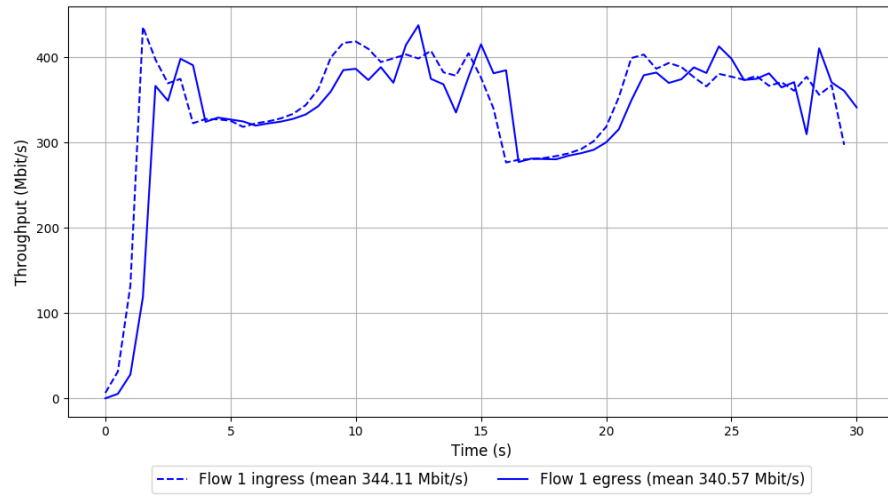


Run 2: Statistics of PCC-Expr

Start at: 2019-01-18 05:15:09  
End at: 2019-01-18 05:15:39  
Local clock offset: -0.02 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-01-18 08:53:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 340.57 Mbit/s  
95th percentile per-packet one-way delay: 142.720 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 340.57 Mbit/s  
95th percentile per-packet one-way delay: 142.720 ms  
Loss rate: 1.03%

## Run 2: Report of PCC-Expr — Data Link

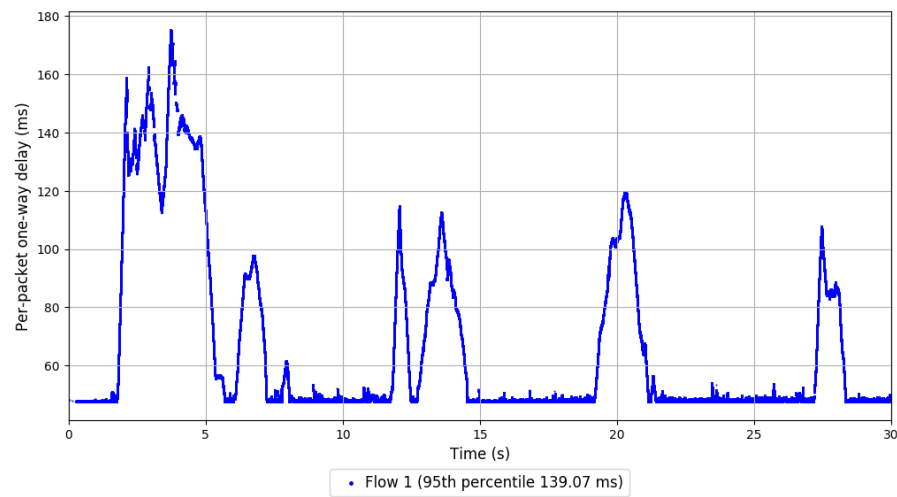
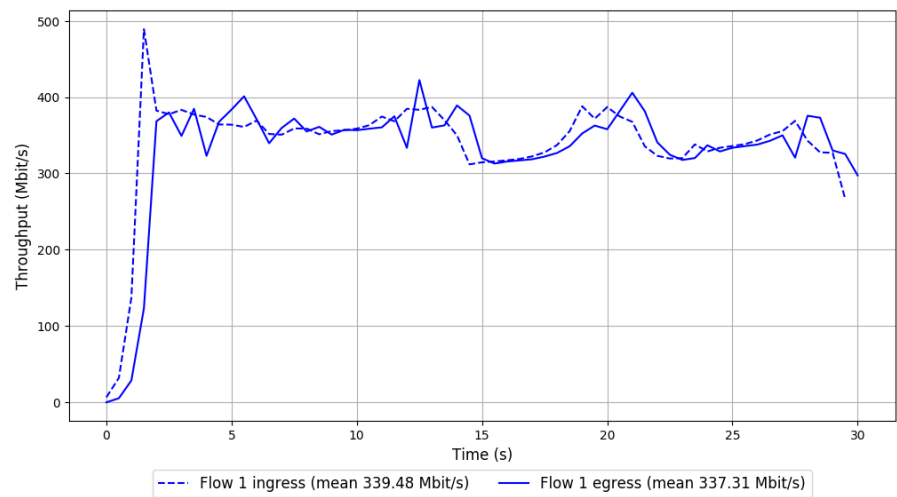


Run 3: Statistics of PCC-Expr

Start at: 2019-01-18 05:49:20  
End at: 2019-01-18 05:49:51  
Local clock offset: -0.381 ms  
Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-01-18 08:53:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 337.31 Mbit/s  
95th percentile per-packet one-way delay: 139.069 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 337.31 Mbit/s  
95th percentile per-packet one-way delay: 139.069 ms  
Loss rate: 0.64%

Run 3: Report of PCC-Expr — Data Link

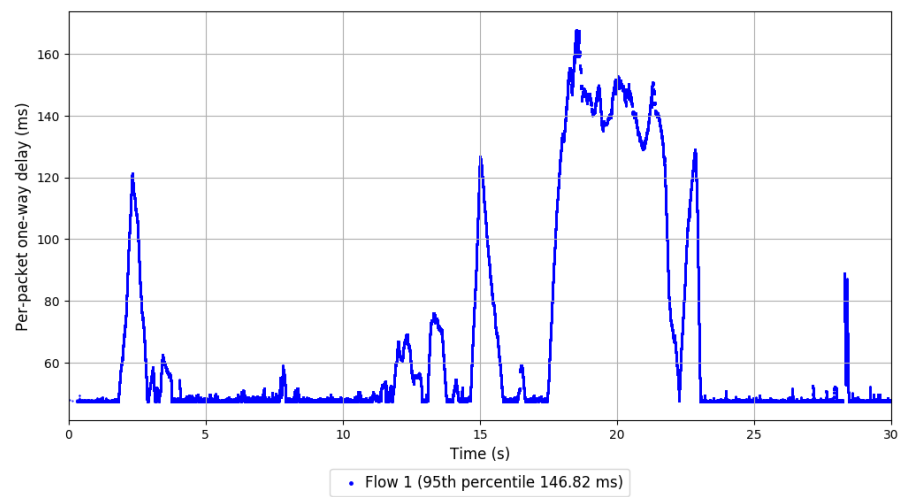
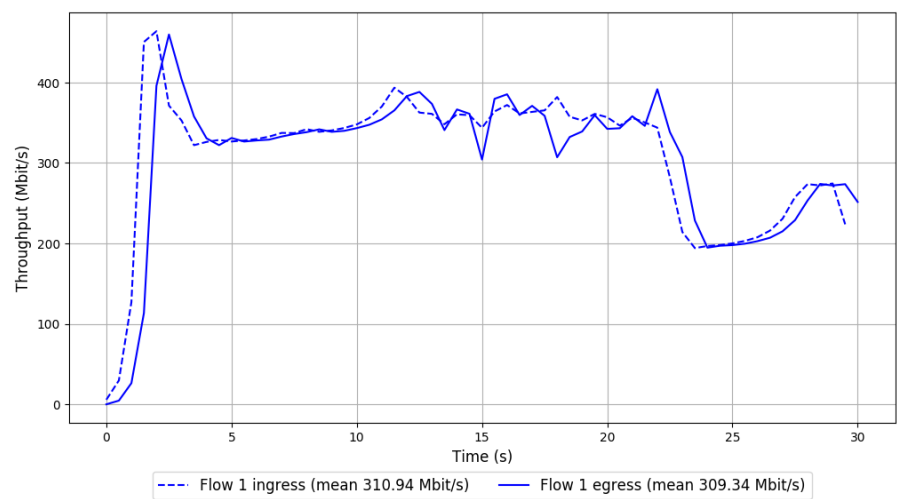


Run 4: Statistics of PCC-Expr

Start at: 2019-01-18 06:23:55  
End at: 2019-01-18 06:24:25  
Local clock offset: -0.056 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-01-18 08:58:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 309.34 Mbit/s  
95th percentile per-packet one-way delay: 146.824 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 309.34 Mbit/s  
95th percentile per-packet one-way delay: 146.824 ms  
Loss rate: 0.52%

Run 4: Report of PCC-Expr — Data Link



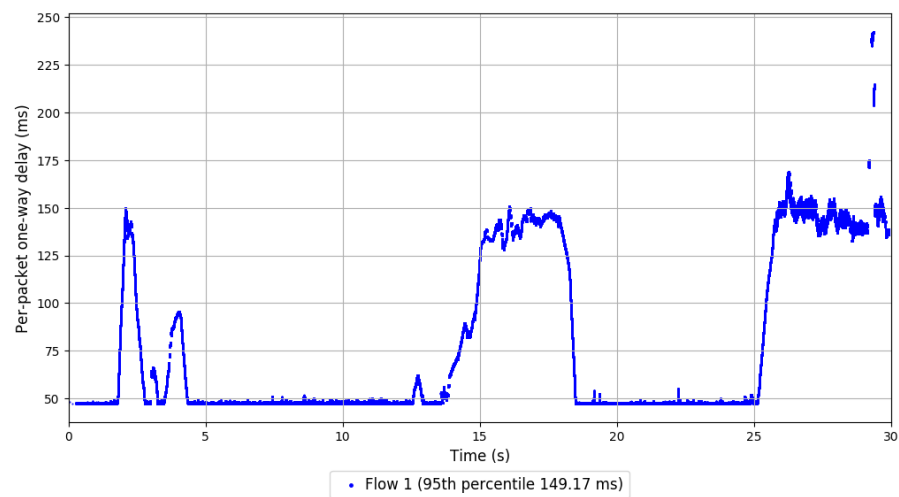
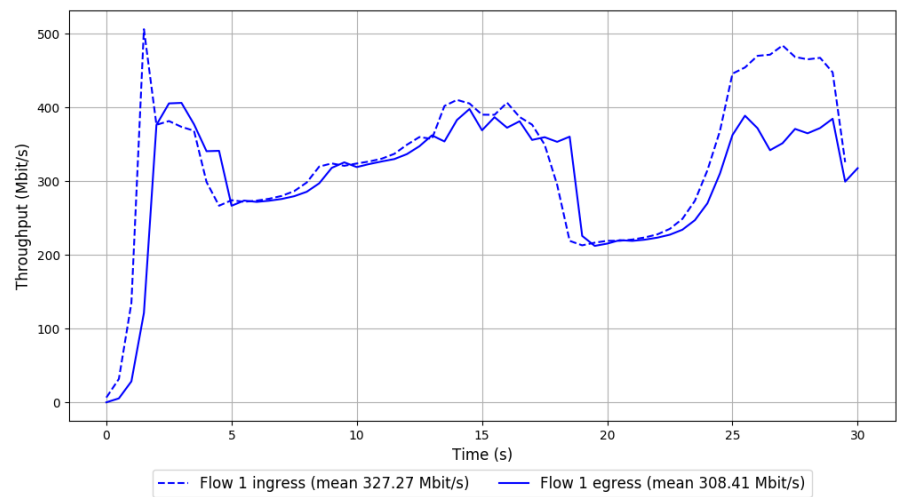


Run 5: Statistics of PCC-Expr

Start at: 2019-01-18 06:56:17  
End at: 2019-01-18 06:56:47  
Local clock offset: -0.054 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-01-18 09:02:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 308.41 Mbit/s  
95th percentile per-packet one-way delay: 149.167 ms  
Loss rate: 5.76%  
-- Flow 1:  
Average throughput: 308.41 Mbit/s  
95th percentile per-packet one-way delay: 149.167 ms  
Loss rate: 5.76%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-01-18 04:30:42

End at: 2019-01-18 04:31:12

Local clock offset: -0.169 ms

Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-01-18 09:02:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 47.628 ms

Loss rate: 0.00%

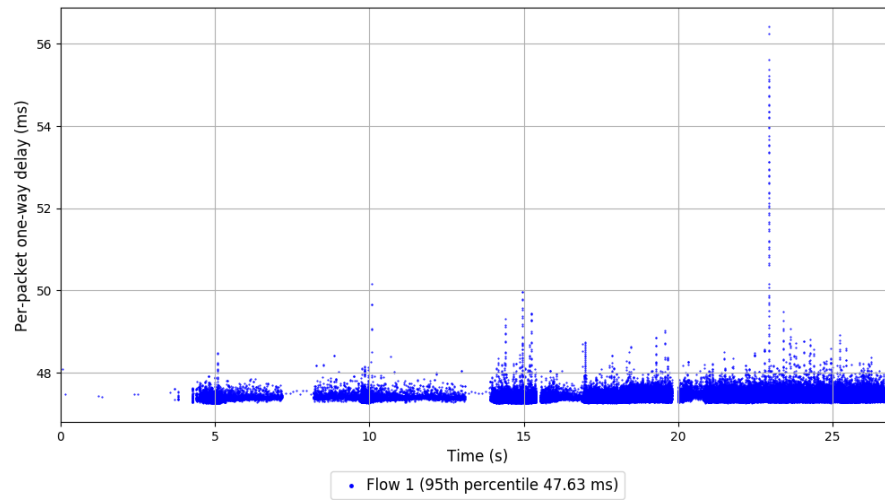
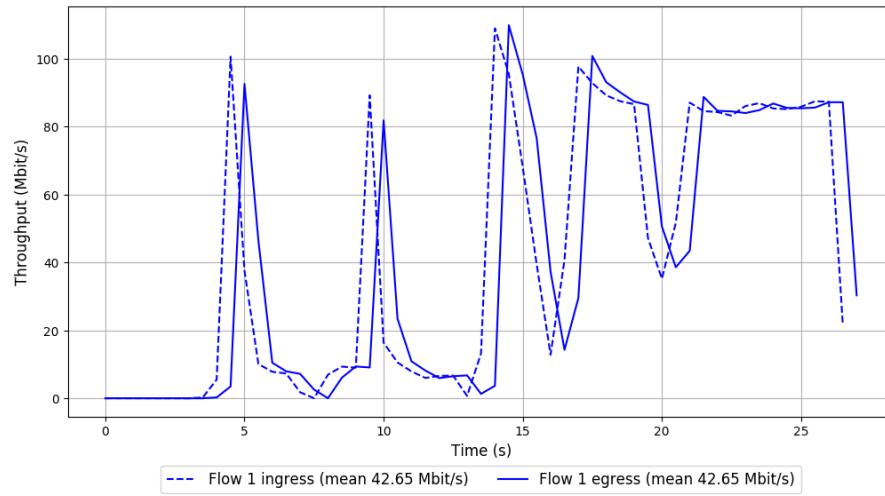
-- Flow 1:

Average throughput: 42.65 Mbit/s

95th percentile per-packet one-way delay: 47.628 ms

Loss rate: 0.00%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-01-18 05:02:00

End at: 2019-01-18 05:02:30

Local clock offset: -0.064 ms

Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 09:02:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 47.543 ms

Loss rate: 0.00%

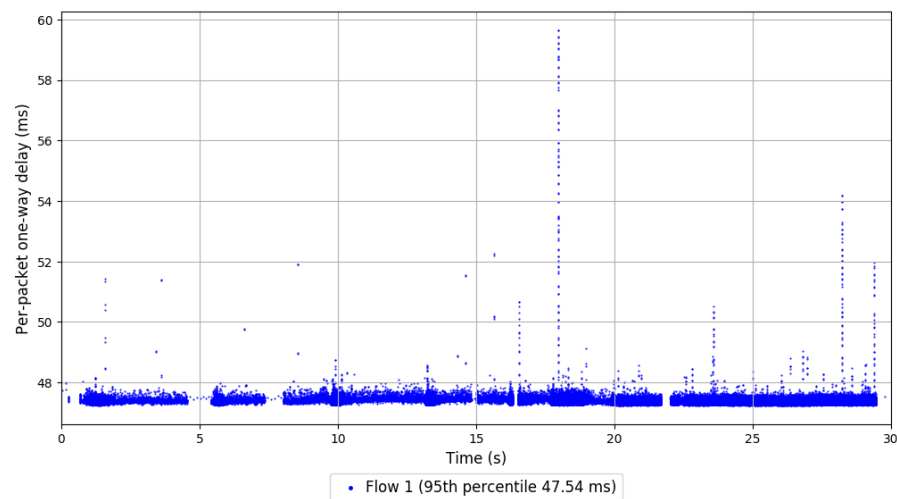
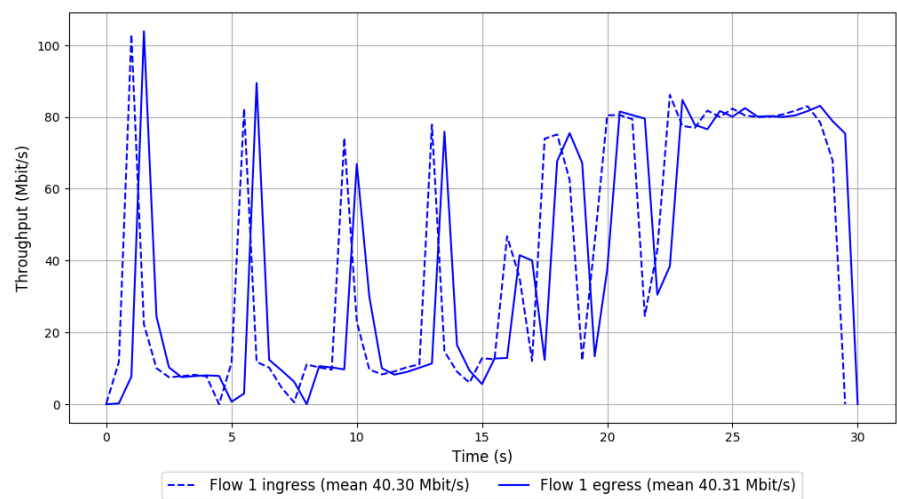
-- Flow 1:

Average throughput: 40.31 Mbit/s

95th percentile per-packet one-way delay: 47.543 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-18 05:36:18

End at: 2019-01-18 05:36:48

Local clock offset: 0.124 ms

Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-18 09:02:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 47.356 ms

Loss rate: 0.00%

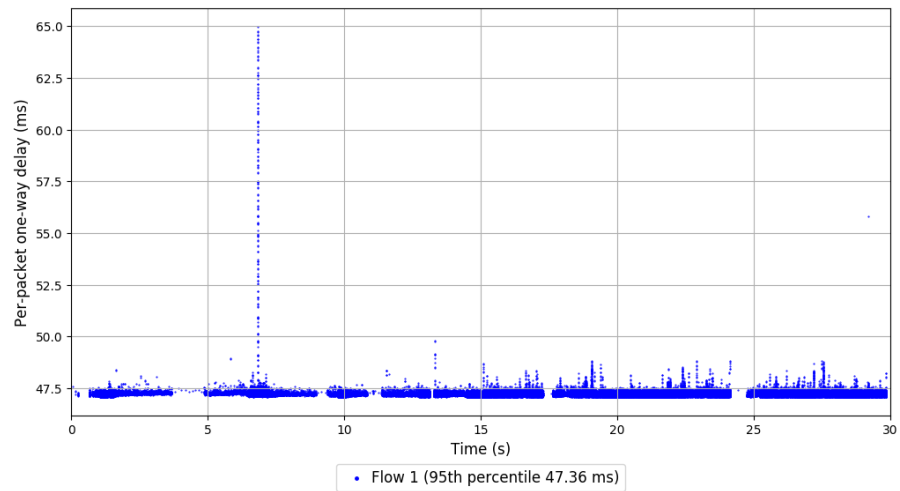
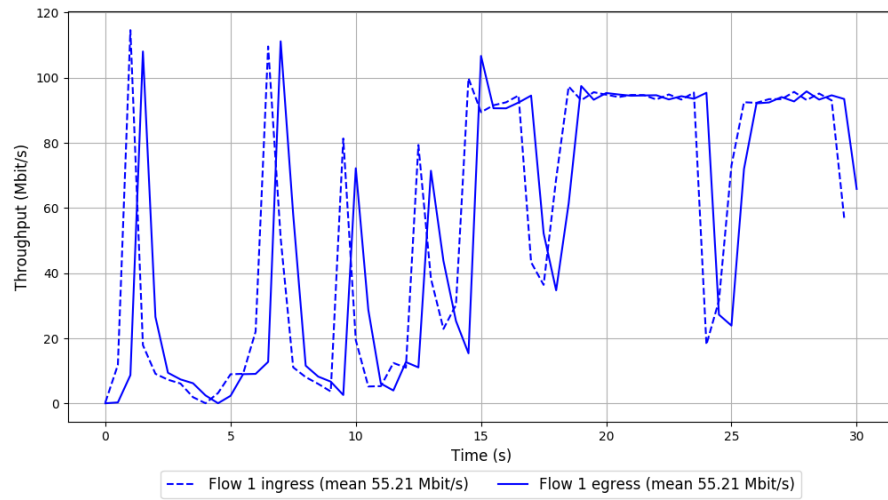
-- Flow 1:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 47.356 ms

Loss rate: 0.00%

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



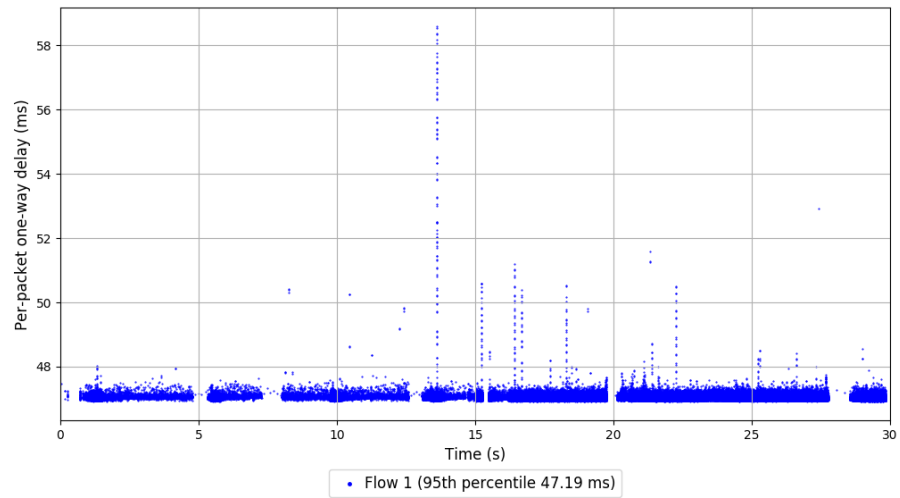
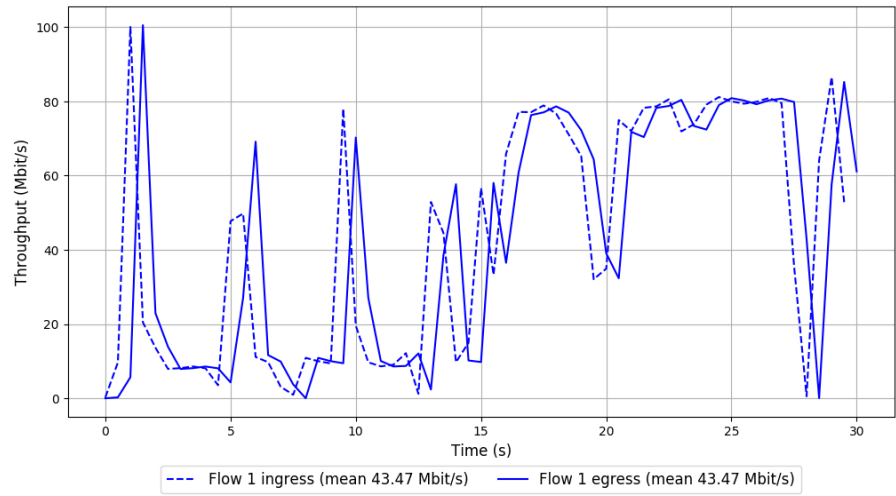


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-18 06:10:40  
End at: 2019-01-18 06:11:10  
Local clock offset: 0.352 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.47 Mbit/s  
95th percentile per-packet one-way delay: 47.191 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.47 Mbit/s  
95th percentile per-packet one-way delay: 47.191 ms  
Loss rate: 0.00%

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

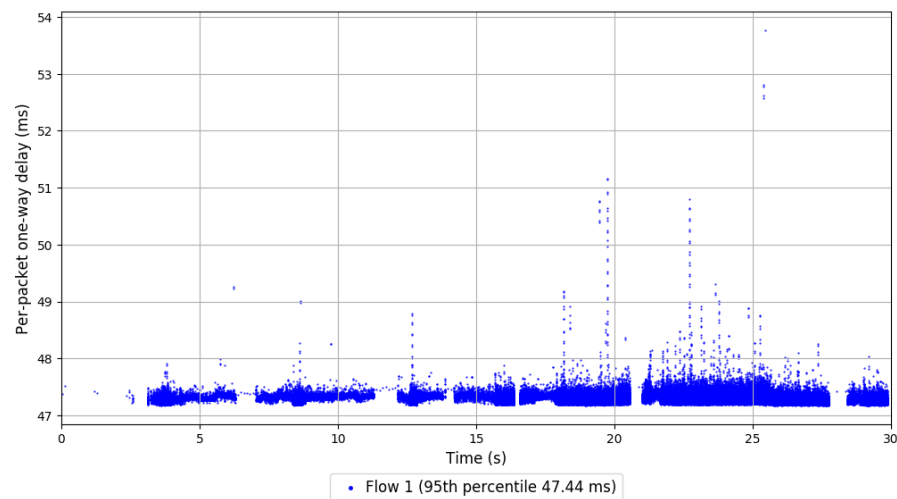
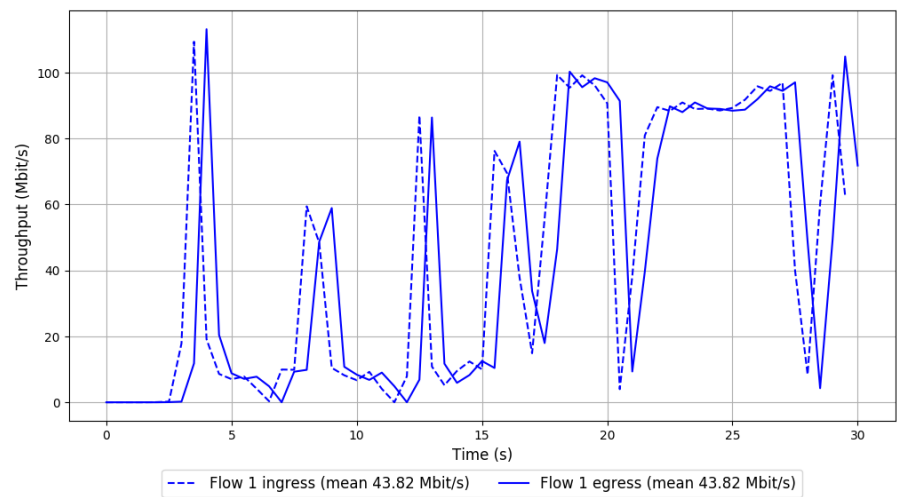


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-18 06:44:17  
End at: 2019-01-18 06:44:47  
Local clock offset: -0.026 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.82 Mbit/s  
95th percentile per-packet one-way delay: 47.439 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 43.82 Mbit/s  
95th percentile per-packet one-way delay: 47.439 ms  
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

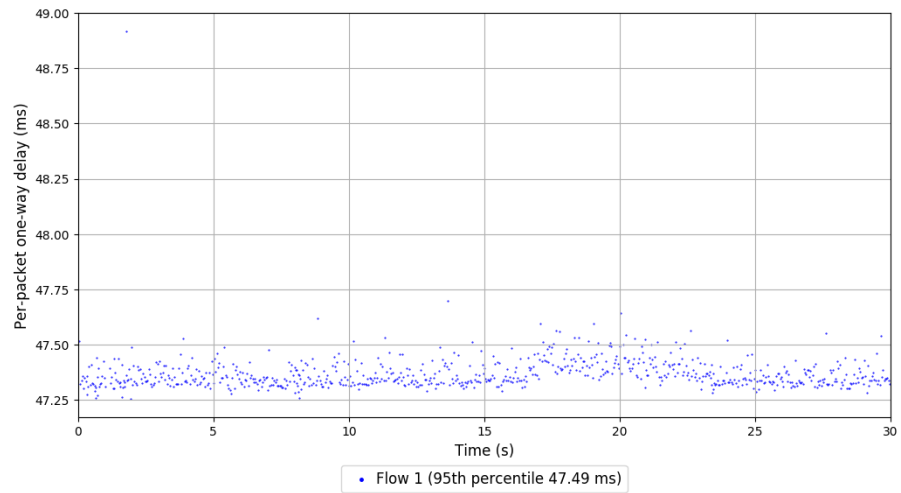
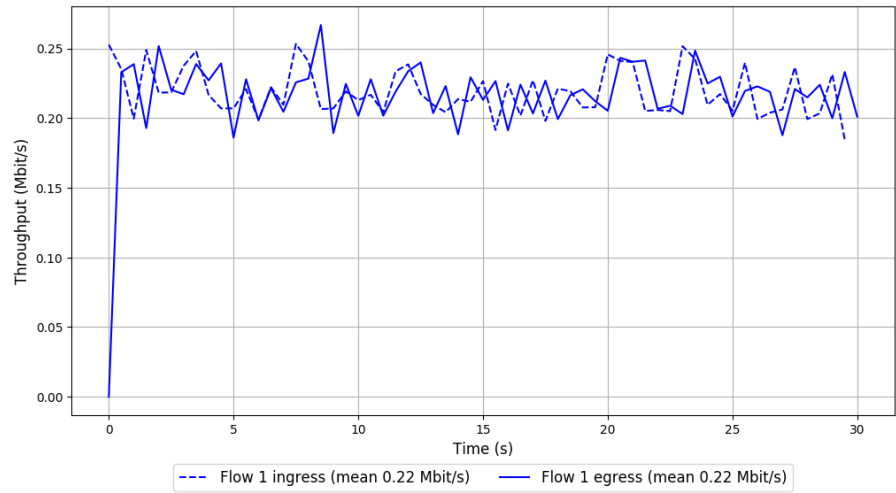


Run 1: Statistics of SCReAM

Start at: 2019-01-18 04:24:38  
End at: 2019-01-18 04:25:08  
Local clock offset: 0.013 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.487 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.487 ms  
Loss rate: 0.00%

## Run 1: Report of SReAM — Data Link

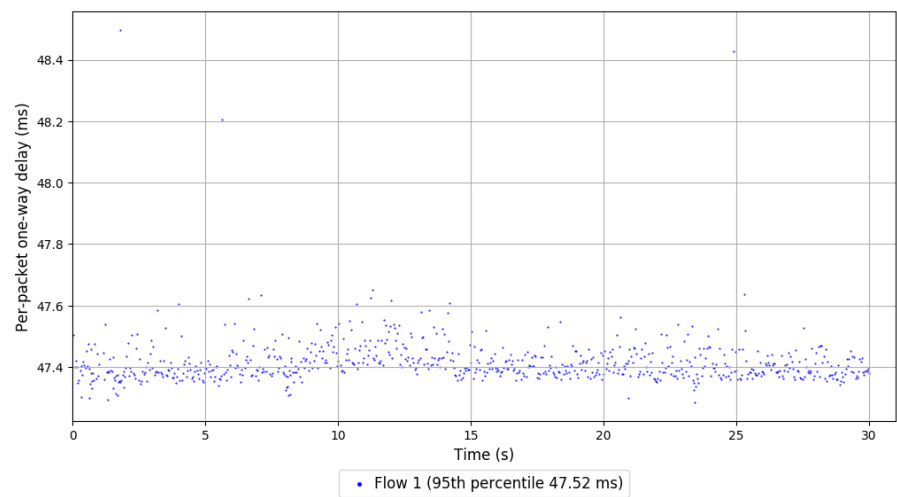
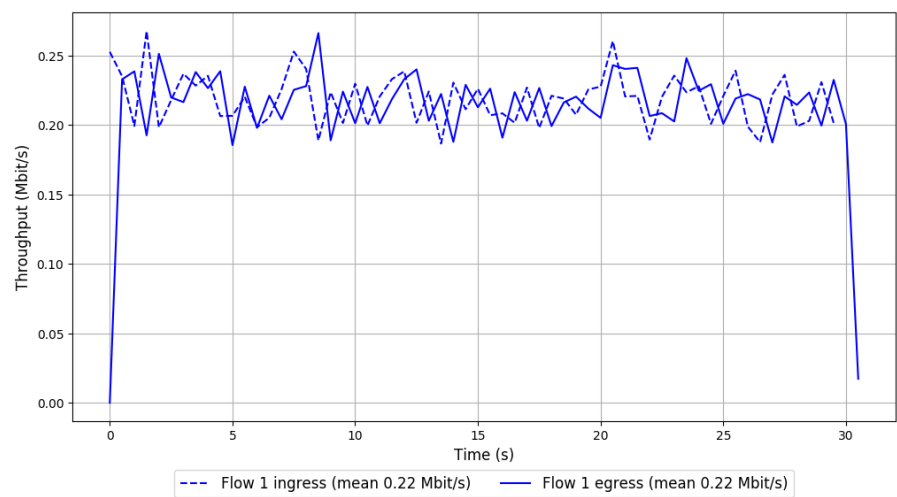


Run 2: Statistics of SReAM

Start at: 2019-01-18 04:55:22  
End at: 2019-01-18 04:55:52  
Local clock offset: 0.022 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.525 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.525 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link



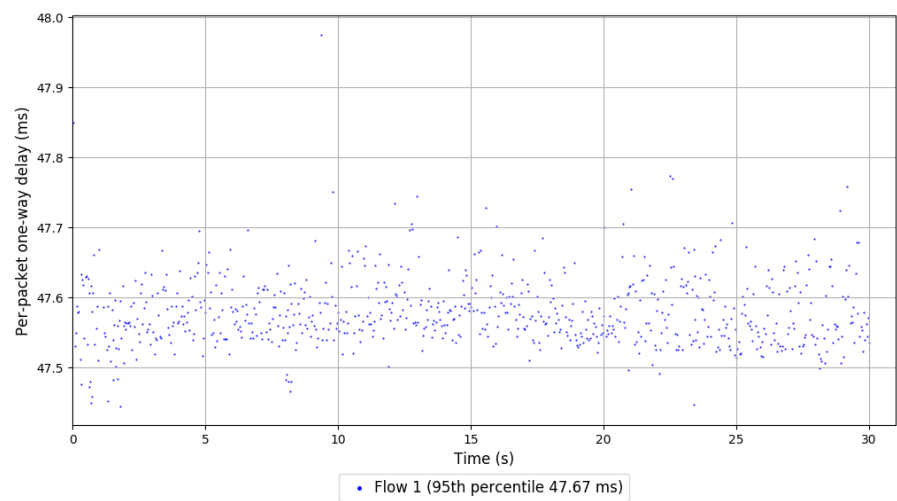
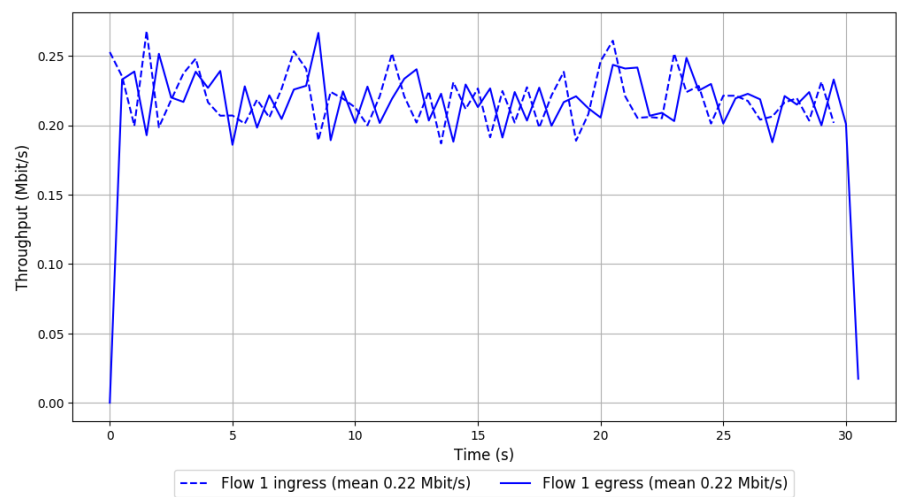


Run 3: Statistics of SCReAM

Start at: 2019-01-18 05:29:29  
End at: 2019-01-18 05:29:59  
Local clock offset: -0.06 ms  
Remote clock offset: -0.126 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.666 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.666 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

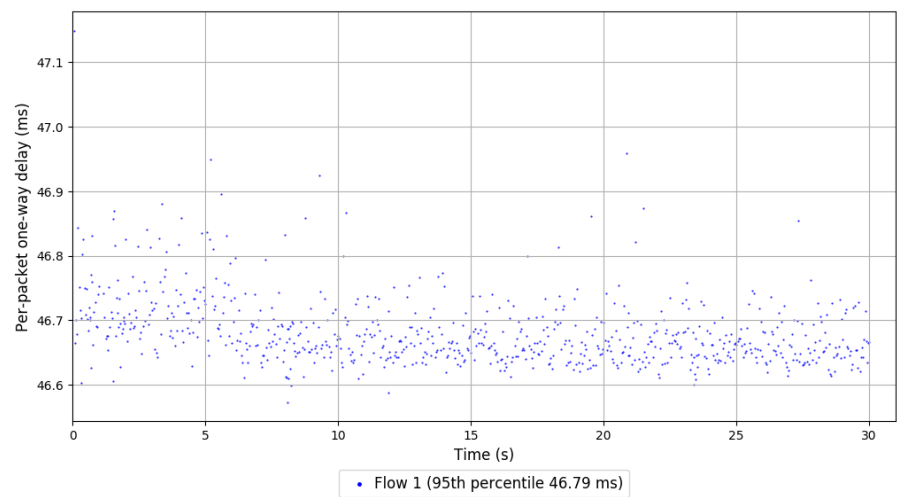
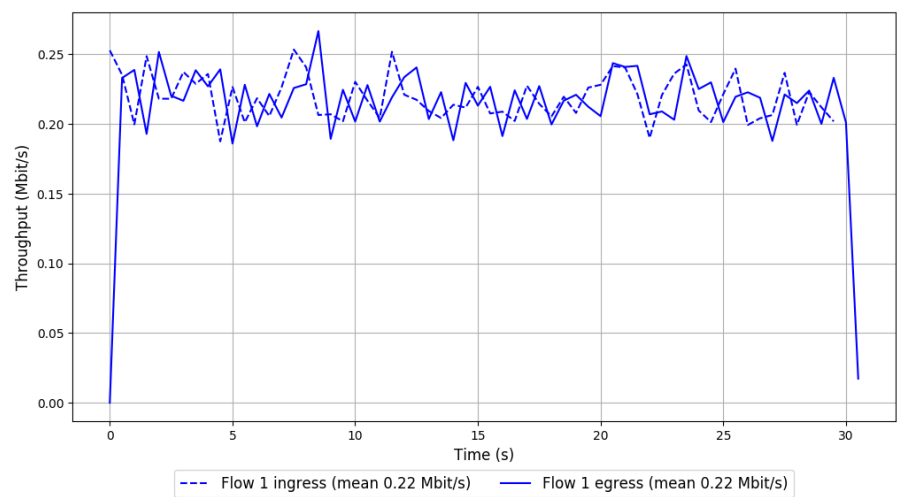


Run 4: Statistics of SCReAM

Start at: 2019-01-18 06:03:48  
End at: 2019-01-18 06:04:18  
Local clock offset: -0.045 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 46.789 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 46.789 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

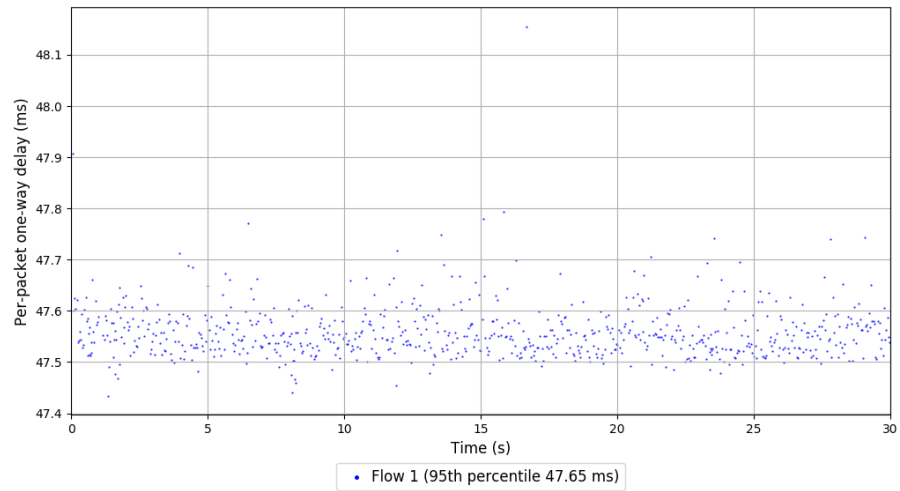
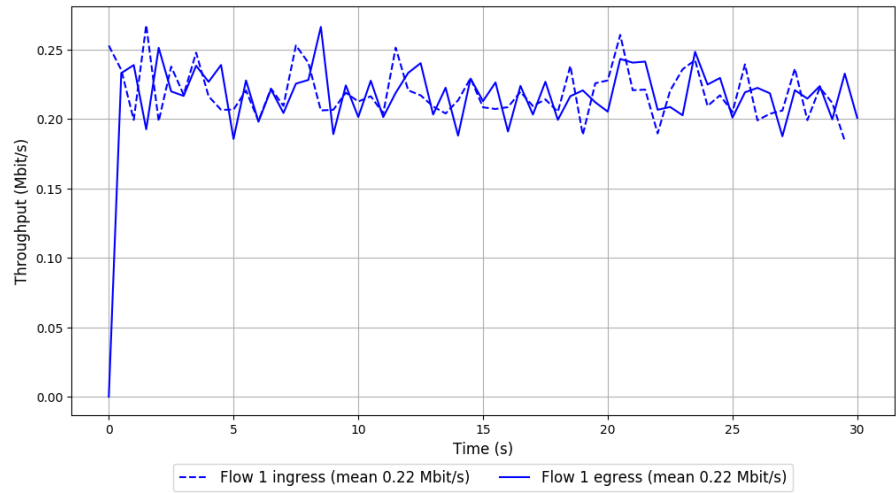


Run 5: Statistics of SCReAM

Start at: 2019-01-18 06:38:10  
End at: 2019-01-18 06:38:40  
Local clock offset: 0.004 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.650 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 47.650 ms  
Loss rate: 0.00%

## Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-18 04:36:40

End at: 2019-01-18 04:37:10

Local clock offset: 0.229 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-18 09:02:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 47.800 ms

Loss rate: 0.00%

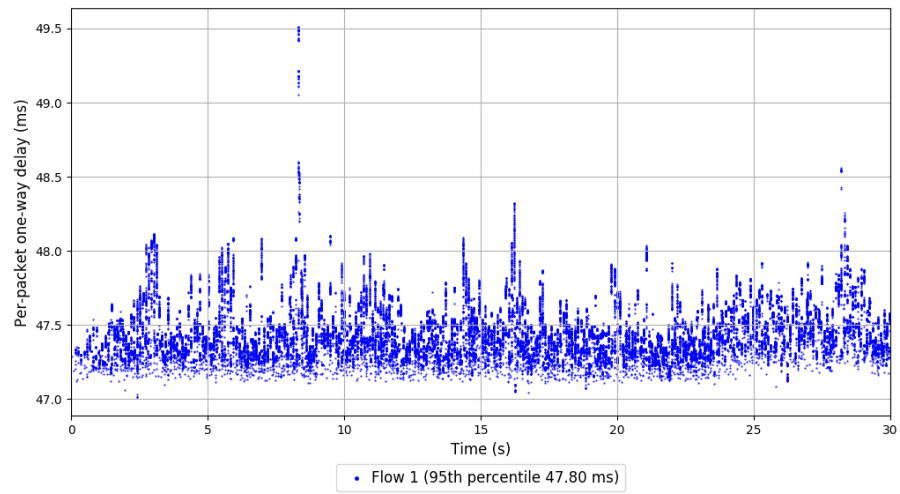
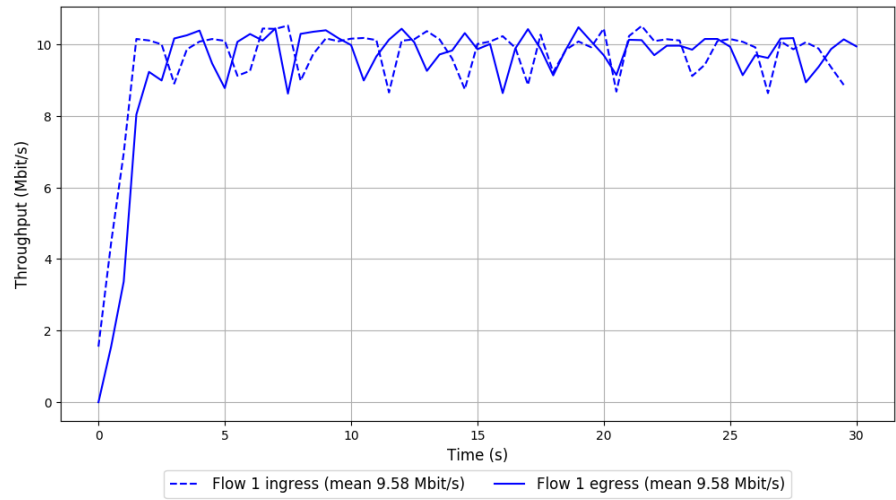
-- Flow 1:

Average throughput: 9.58 Mbit/s

95th percentile per-packet one-way delay: 47.800 ms

Loss rate: 0.00%

### Run 1: Report of Sprout — Data Link



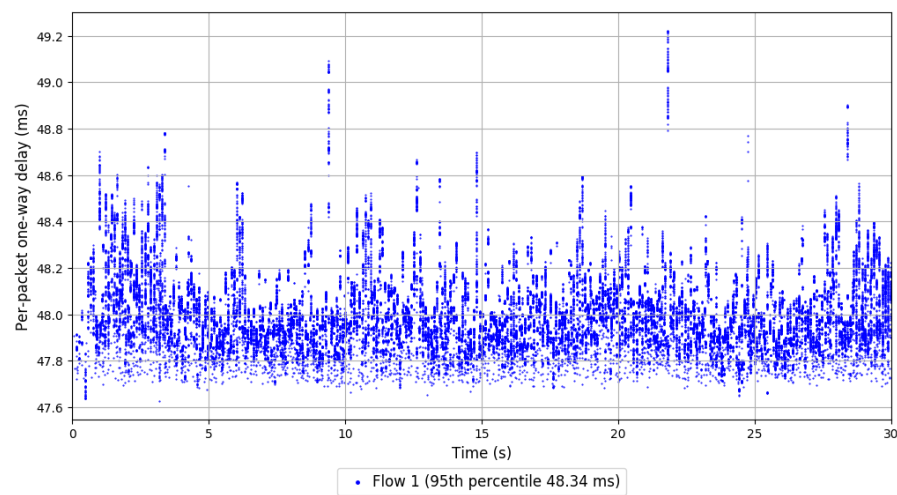
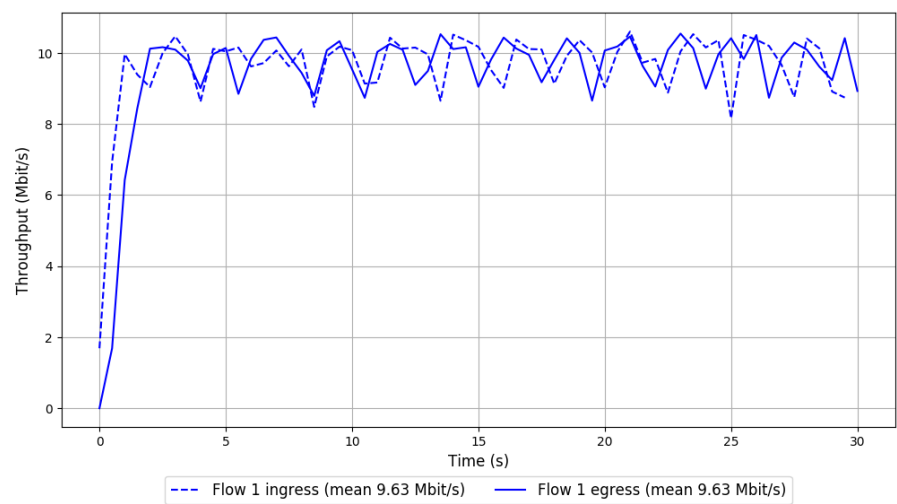


Run 2: Statistics of Sprout

Start at: 2019-01-18 05:08:49  
End at: 2019-01-18 05:09:19  
Local clock offset: -0.343 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.63 Mbit/s  
95th percentile per-packet one-way delay: 48.335 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 9.63 Mbit/s  
95th percentile per-packet one-way delay: 48.335 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

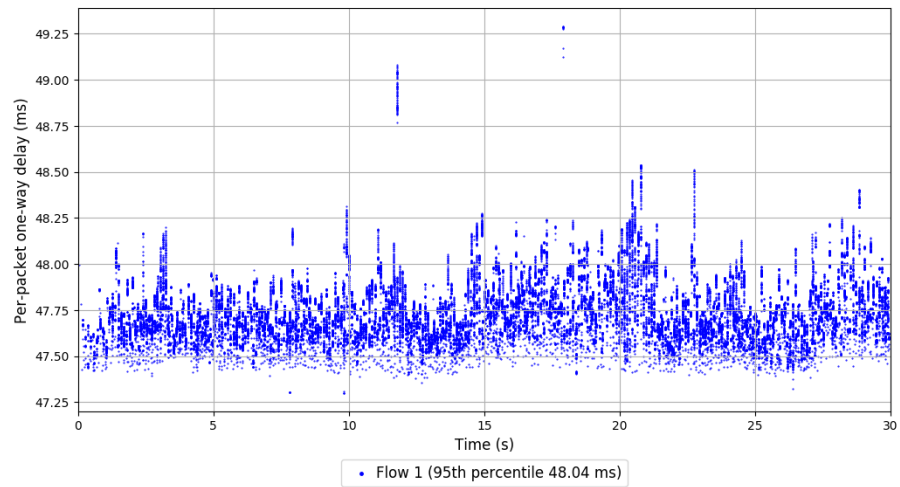
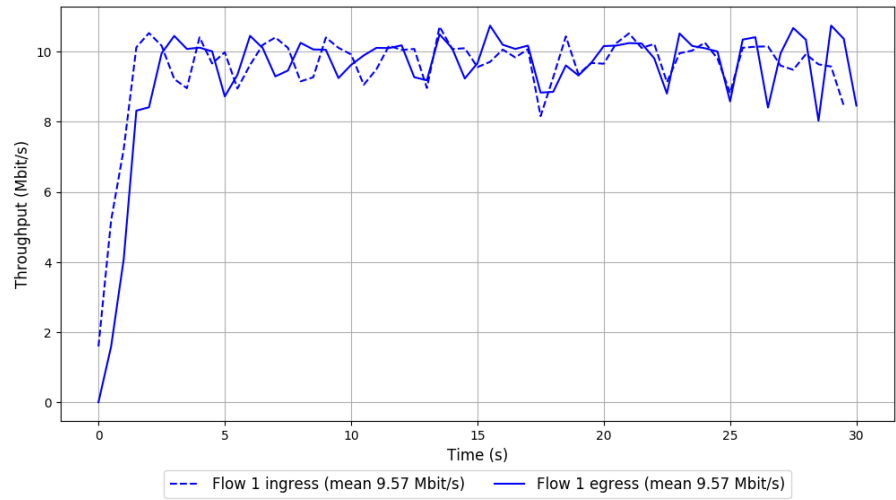


Run 3: Statistics of Sprout

Start at: 2019-01-18 05:43:10  
End at: 2019-01-18 05:43:40  
Local clock offset: -0.019 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.57 Mbit/s  
95th percentile per-packet one-way delay: 48.039 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 9.57 Mbit/s  
95th percentile per-packet one-way delay: 48.039 ms  
Loss rate: 0.00%

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

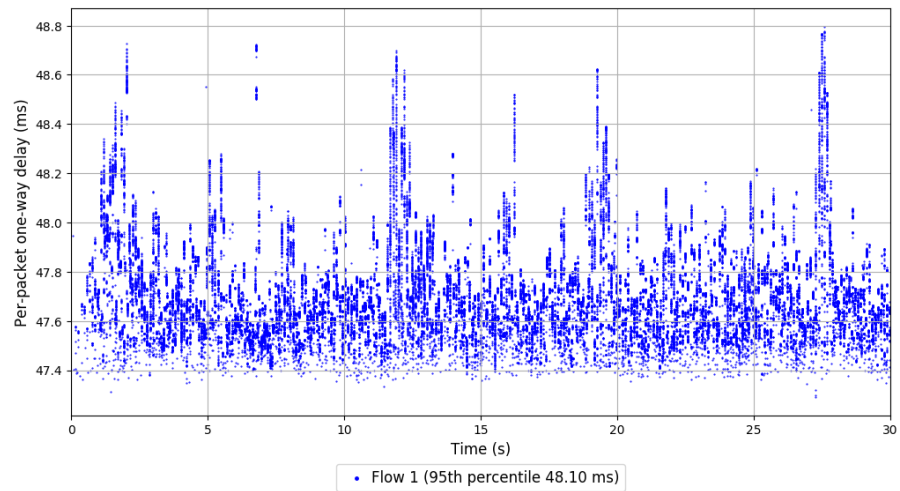
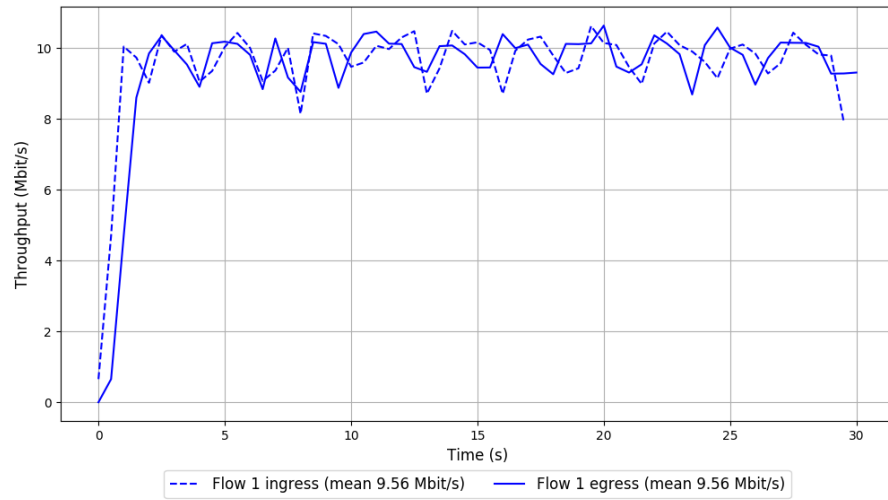


Run 4: Statistics of Sprout

Start at: 2019-01-18 06:17:28  
End at: 2019-01-18 06:17:59  
Local clock offset: -0.002 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 48.101 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 48.101 ms  
Loss rate: 0.00%

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

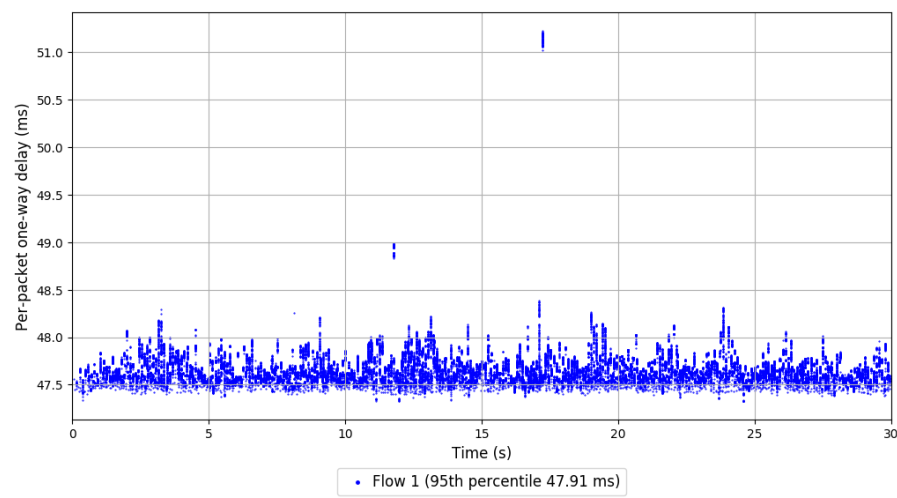
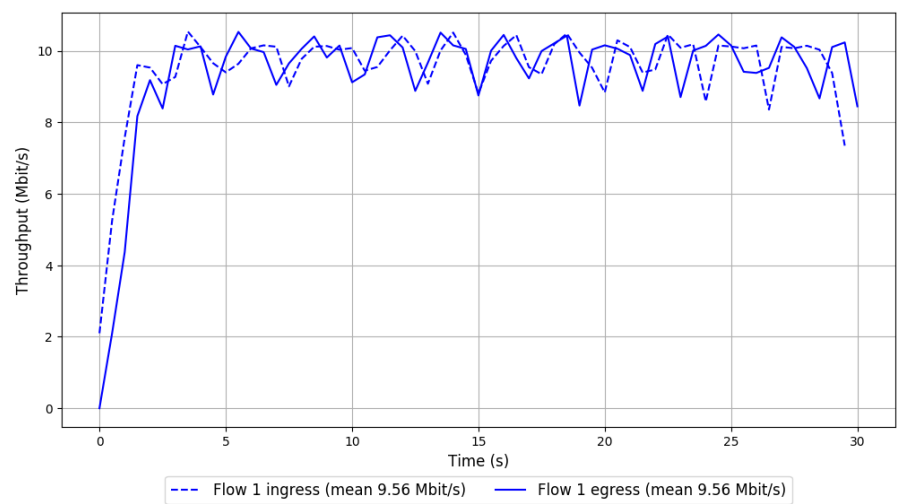


Run 5: Statistics of Sprout

Start at: 2019-01-18 06:50:27  
End at: 2019-01-18 06:50:57  
Local clock offset: 0.022 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-01-18 09:02:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 47.905 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 47.905 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link





Run 1: Statistics of TaoVA-100x

Start at: 2019-01-18 04:45:34

End at: 2019-01-18 04:46:04

Local clock offset: 0.059 ms

Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-01-18 09:02:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 242.64 Mbit/s

95th percentile per-packet one-way delay: 47.528 ms

Loss rate: 0.09%

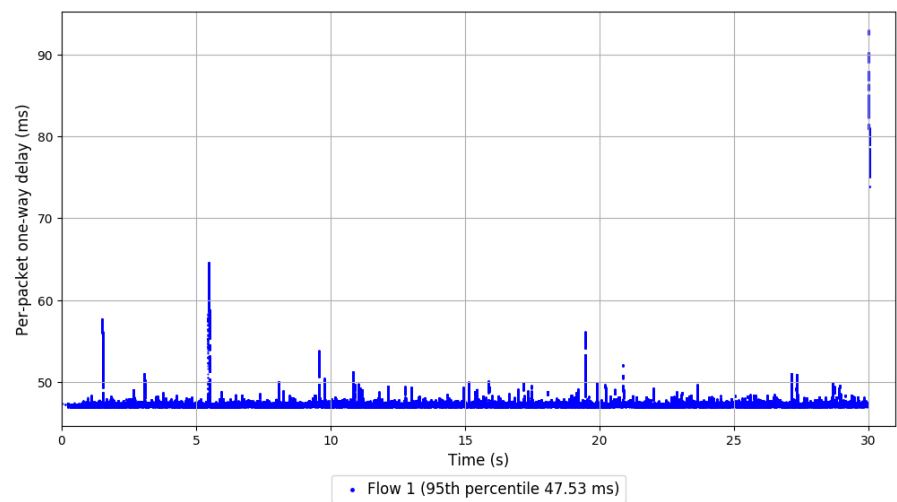
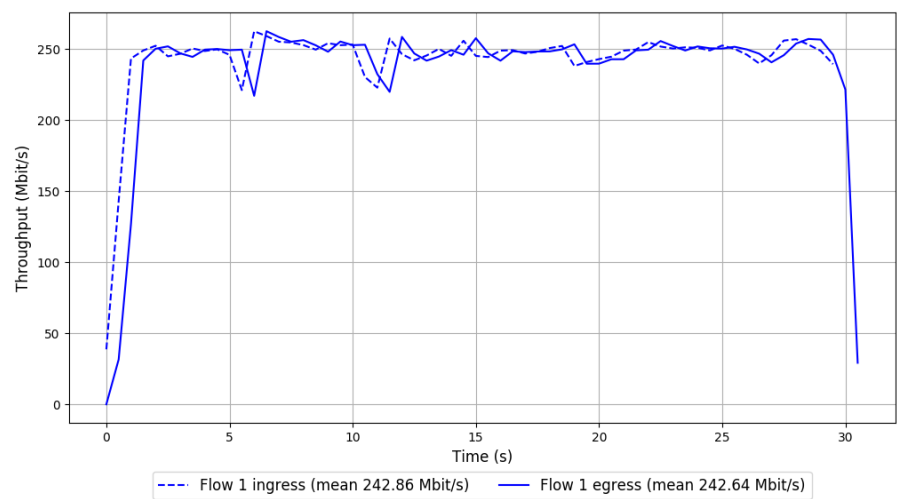
-- Flow 1:

Average throughput: 242.64 Mbit/s

95th percentile per-packet one-way delay: 47.528 ms

Loss rate: 0.09%

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

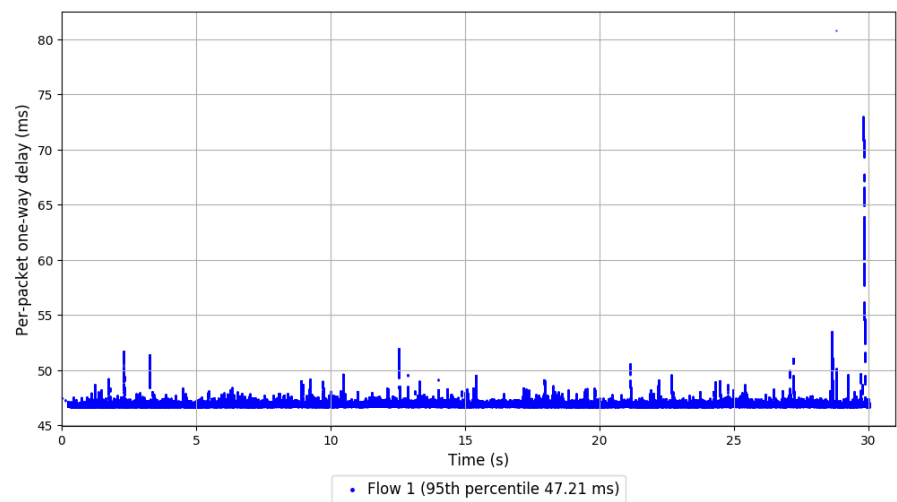
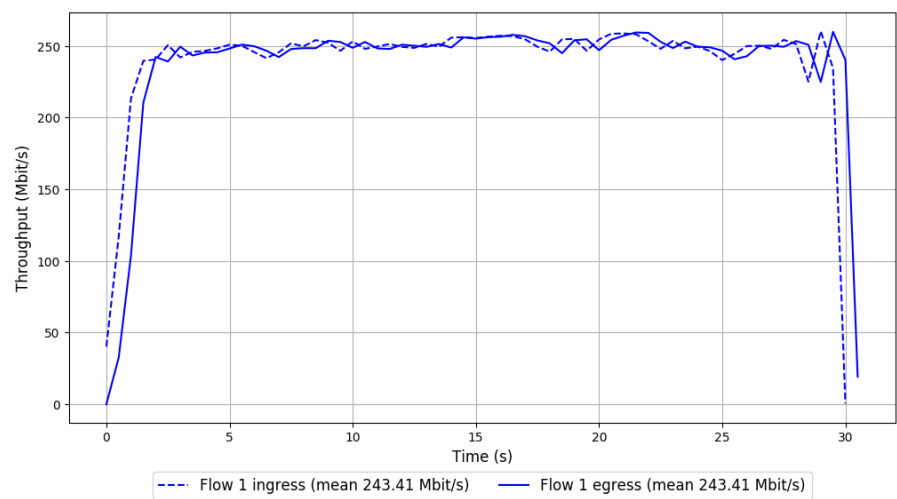


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-18 05:18:49  
End at: 2019-01-18 05:19:19  
Local clock offset: 0.341 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-01-18 09:02:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 243.41 Mbit/s  
95th percentile per-packet one-way delay: 47.208 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 243.41 Mbit/s  
95th percentile per-packet one-way delay: 47.208 ms  
Loss rate: 0.00%

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

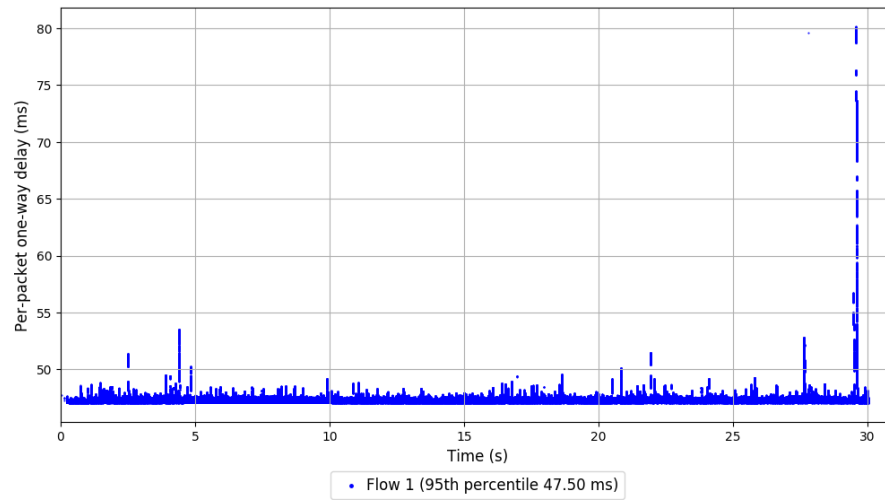
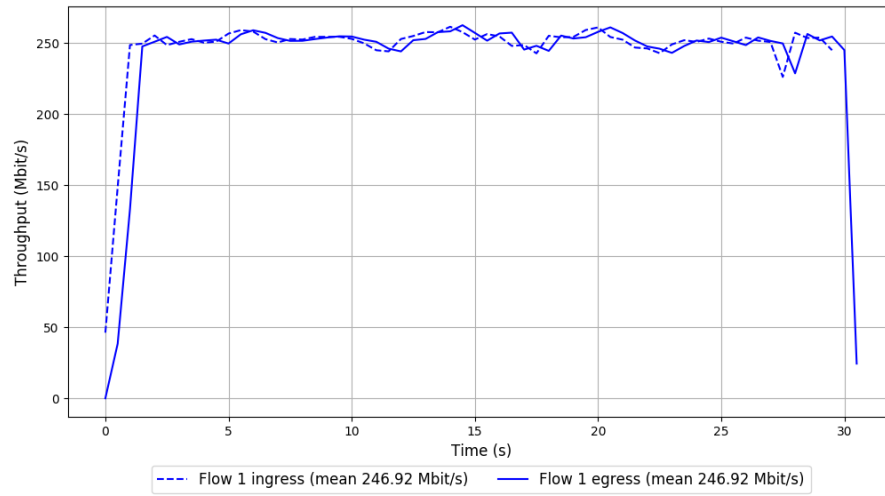


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-18 05:52:50  
End at: 2019-01-18 05:53:20  
Local clock offset: 0.095 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-01-18 09:02:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 246.92 Mbit/s  
95th percentile per-packet one-way delay: 47.503 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 246.92 Mbit/s  
95th percentile per-packet one-way delay: 47.503 ms  
Loss rate: 0.00%

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

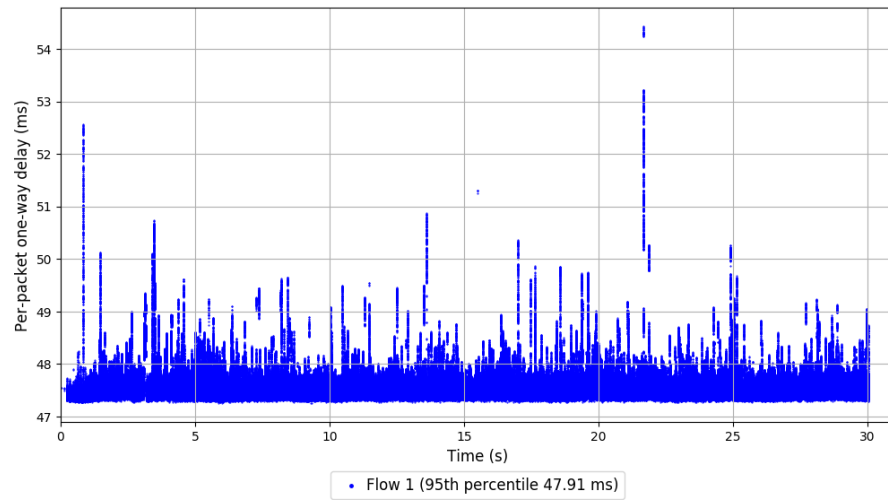
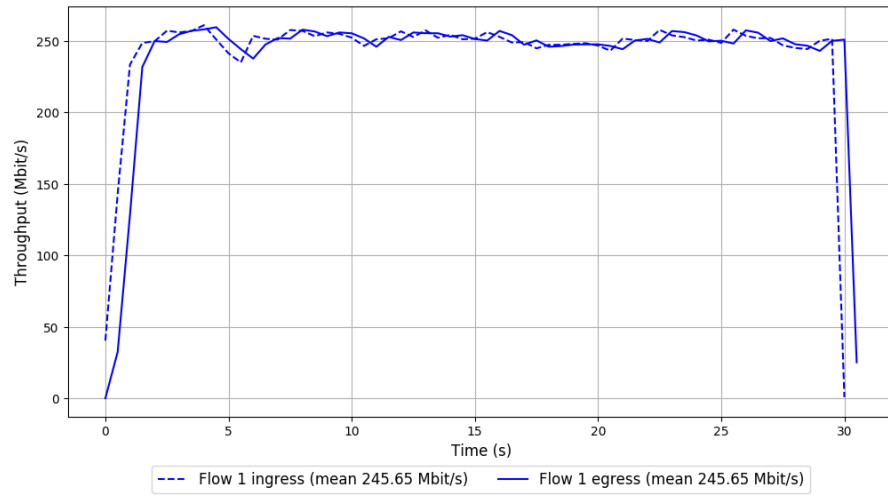


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-18 06:27:32  
End at: 2019-01-18 06:28:02  
Local clock offset: -0.038 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-01-18 09:02:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 245.65 Mbit/s  
95th percentile per-packet one-way delay: 47.915 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 245.65 Mbit/s  
95th percentile per-packet one-way delay: 47.915 ms  
Loss rate: 0.00%

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



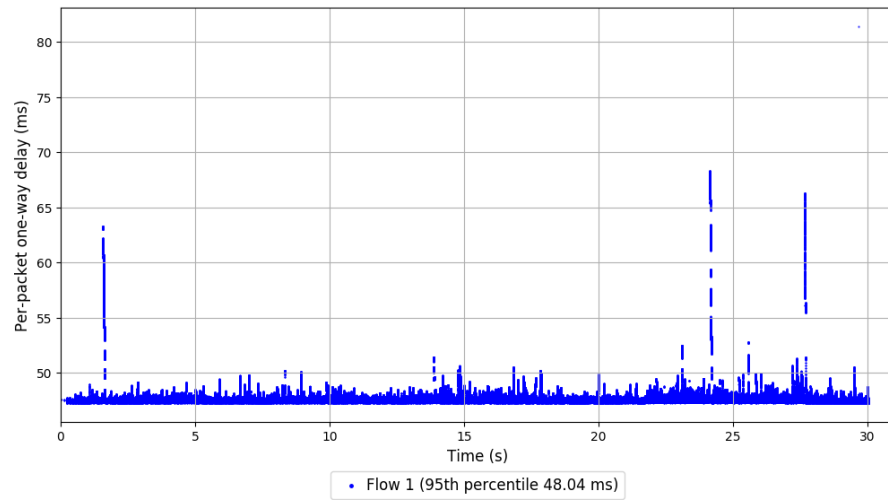
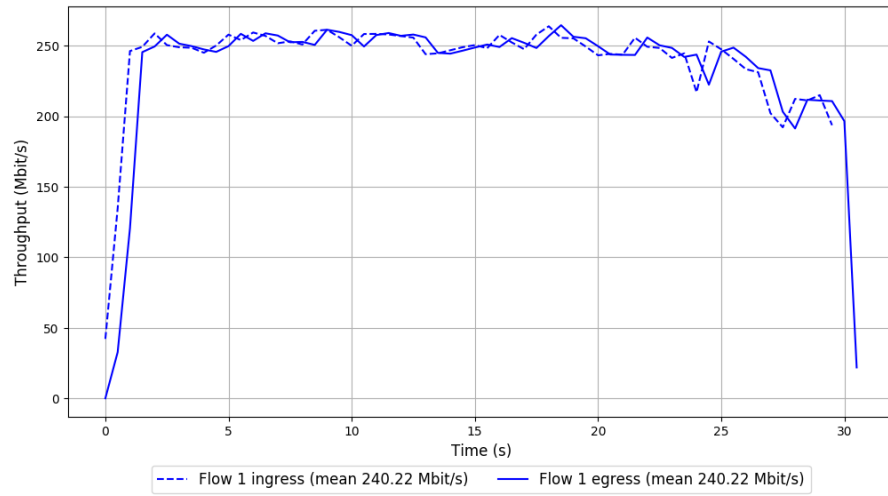


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-18 06:59:33  
End at: 2019-01-18 07:00:03  
Local clock offset: -0.099 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-01-18 09:02:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 240.22 Mbit/s  
95th percentile per-packet one-way delay: 48.036 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 240.22 Mbit/s  
95th percentile per-packet one-way delay: 48.036 ms  
Loss rate: 0.00%

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

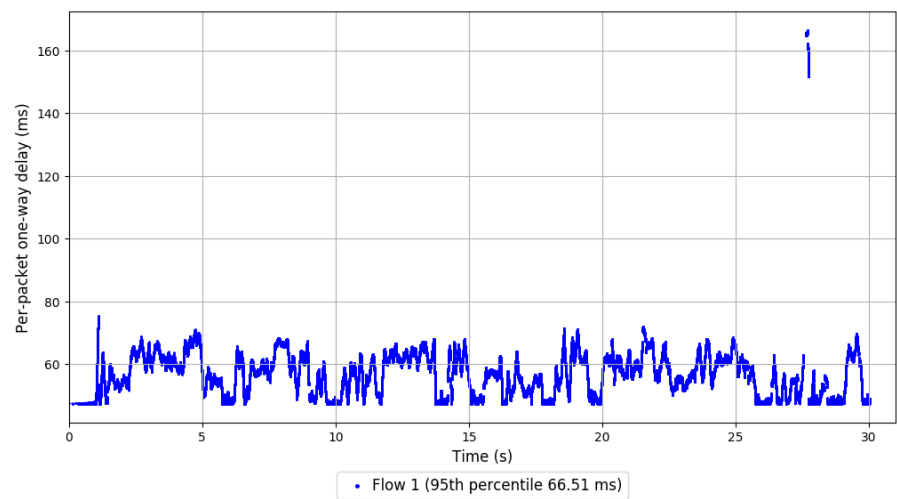
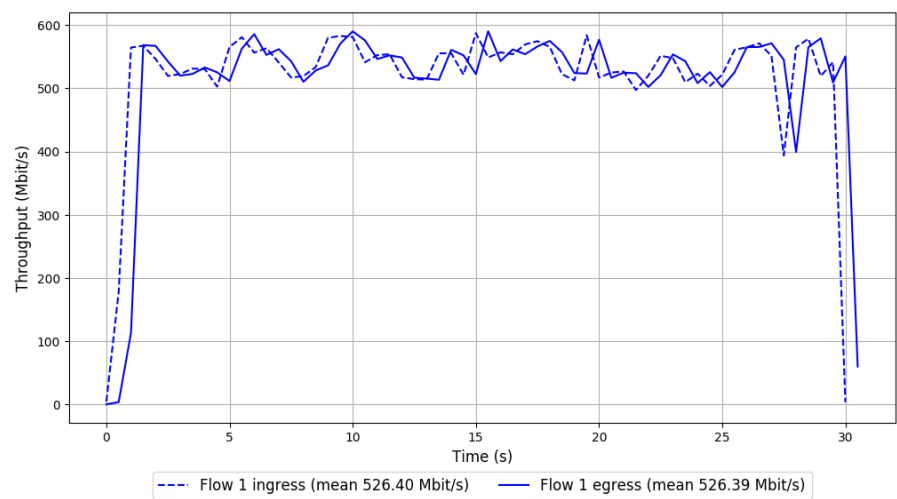


Run 1: Statistics of TCP Vegas

Start at: 2019-01-18 04:23:05  
End at: 2019-01-18 04:23:35  
Local clock offset: -0.11 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-01-18 09:03:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 526.39 Mbit/s  
95th percentile per-packet one-way delay: 66.509 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 526.39 Mbit/s  
95th percentile per-packet one-way delay: 66.509 ms  
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link

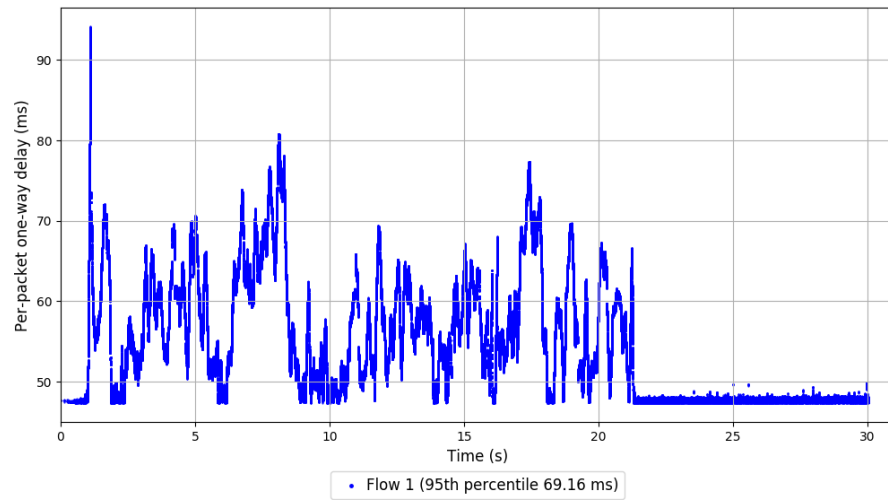
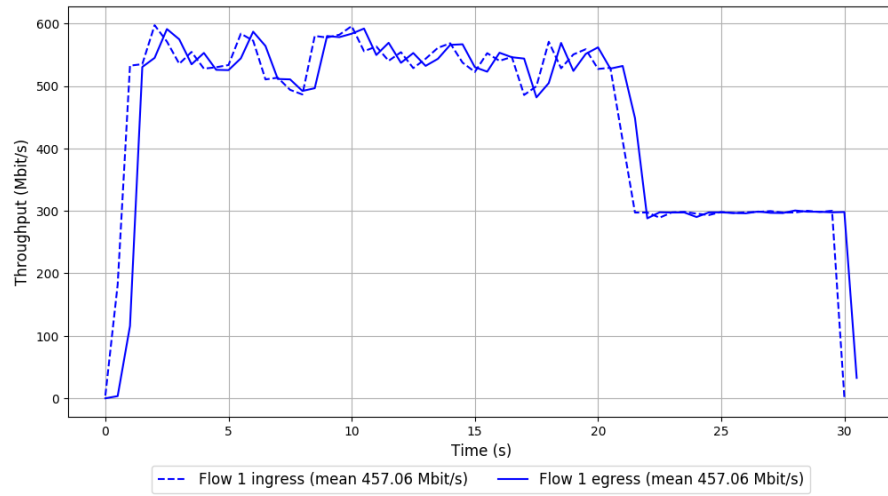


Run 2: Statistics of TCP Vegas

Start at: 2019-01-18 04:53:52  
End at: 2019-01-18 04:54:23  
Local clock offset: -0.265 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-01-18 09:08:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 457.06 Mbit/s  
95th percentile per-packet one-way delay: 69.163 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 457.06 Mbit/s  
95th percentile per-packet one-way delay: 69.163 ms  
Loss rate: 0.00%

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

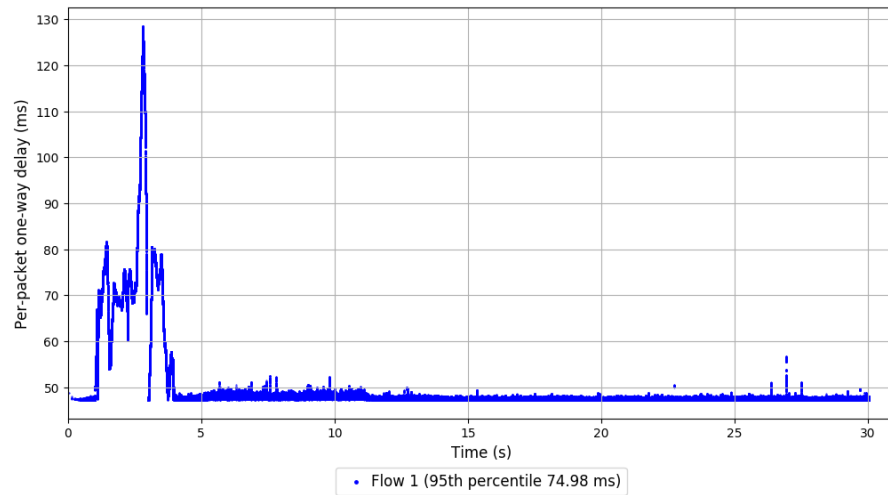
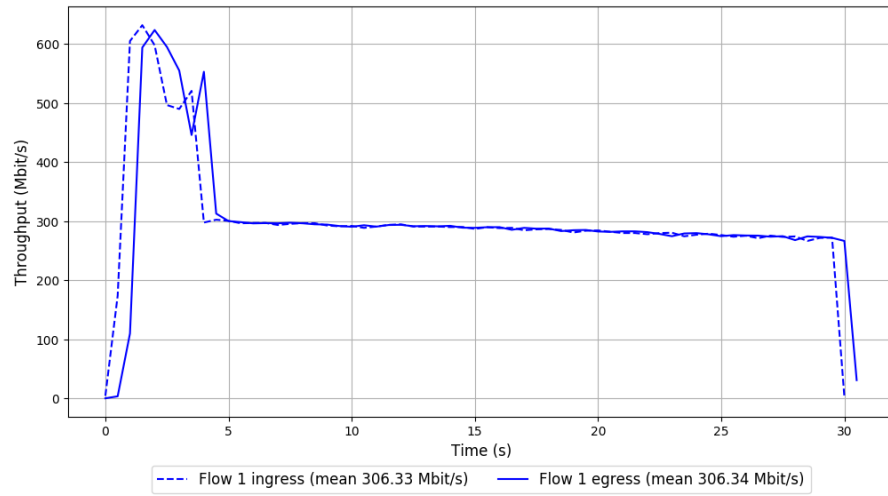


Run 3: Statistics of TCP Vegas

Start at: 2019-01-18 05:28:00  
End at: 2019-01-18 05:28:30  
Local clock offset: -0.008 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-01-18 09:08:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 306.34 Mbit/s  
95th percentile per-packet one-way delay: 74.977 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 306.34 Mbit/s  
95th percentile per-packet one-way delay: 74.977 ms  
Loss rate: 0.00%

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



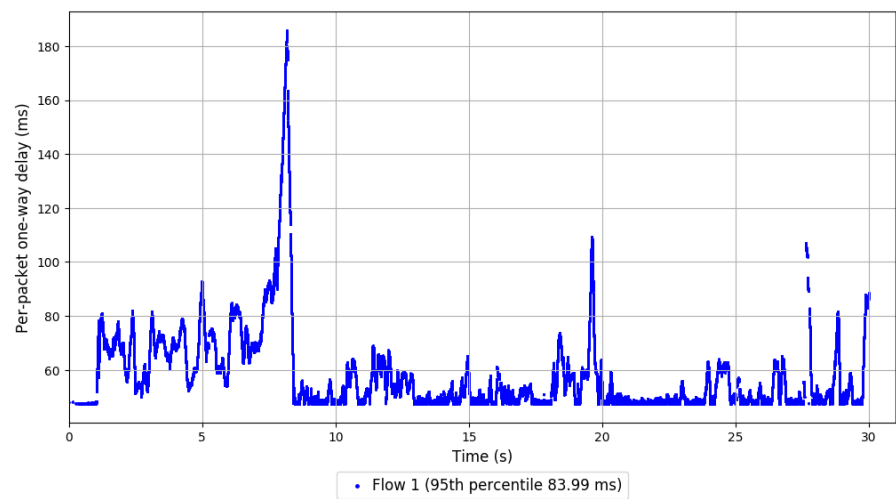
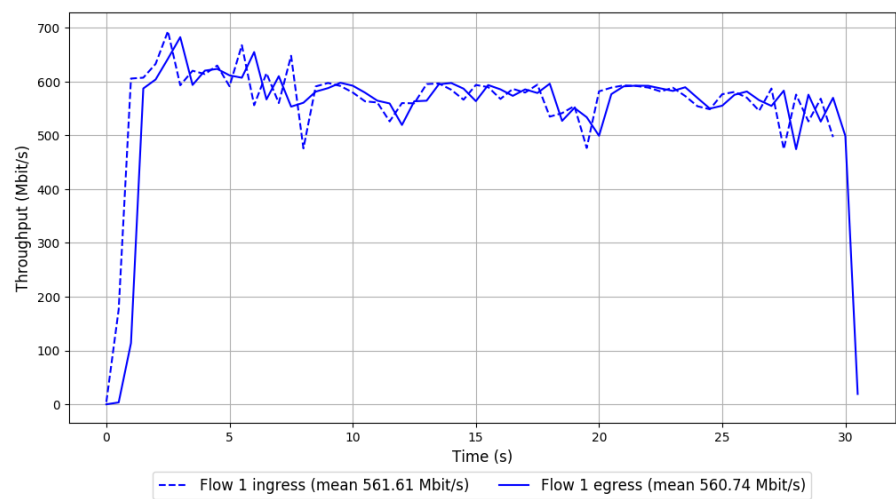


Run 4: Statistics of TCP Vegas

Start at: 2019-01-18 06:01:59  
End at: 2019-01-18 06:02:29  
Local clock offset: -0.059 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-01-18 09:13:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 560.74 Mbit/s  
95th percentile per-packet one-way delay: 83.987 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 560.74 Mbit/s  
95th percentile per-packet one-way delay: 83.987 ms  
Loss rate: 0.16%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-18 06:36:20

End at: 2019-01-18 06:36:50

Local clock offset: 0.112 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-01-18 09:13:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 541.84 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 0.00%

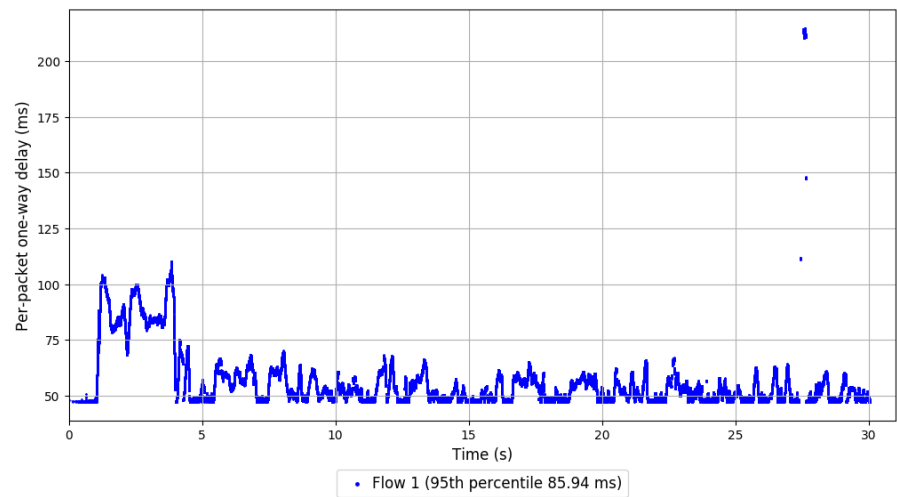
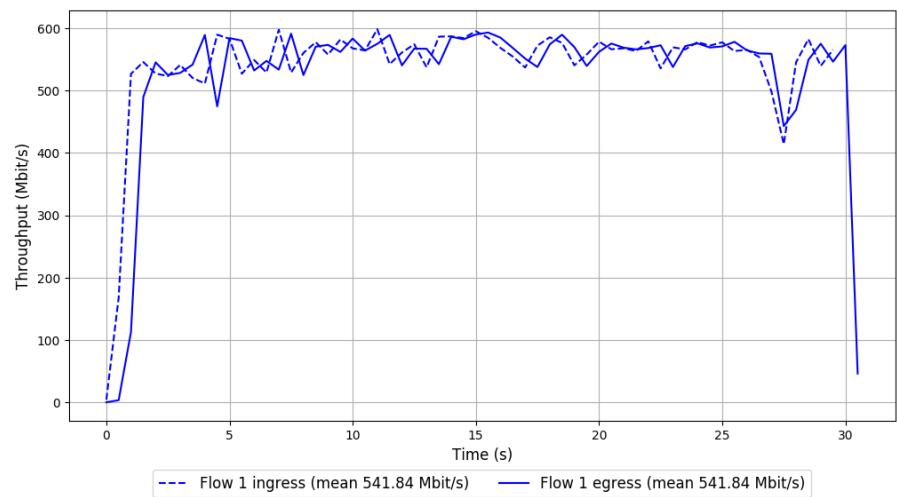
-- Flow 1:

Average throughput: 541.84 Mbit/s

95th percentile per-packet one-way delay: 85.941 ms

Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link

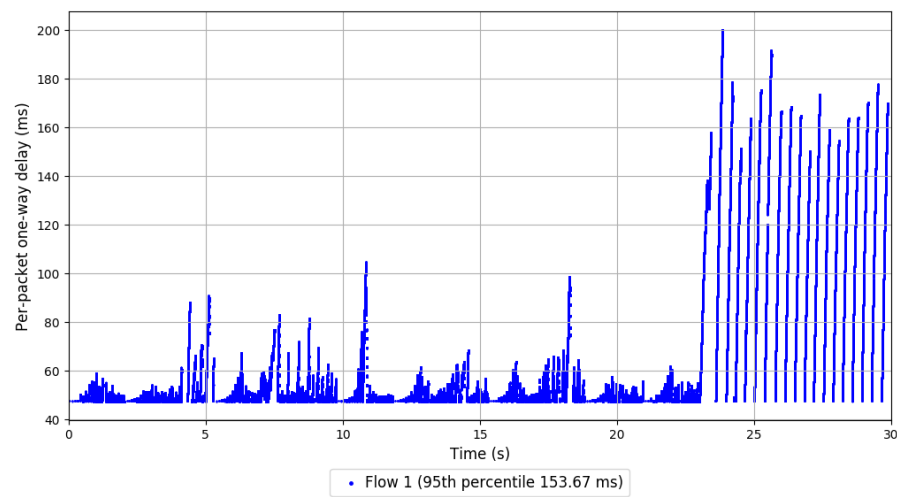
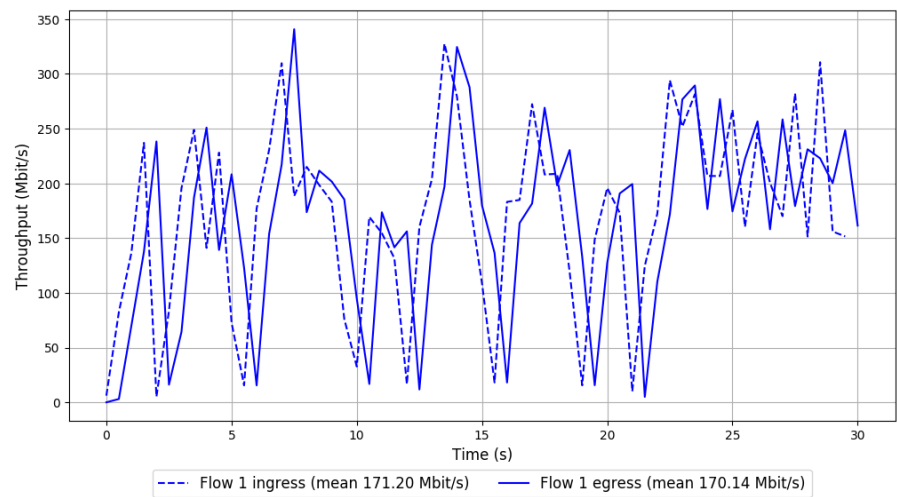


Run 1: Statistics of Verus

Start at: 2019-01-18 04:37:49  
End at: 2019-01-18 04:38:19  
Local clock offset: -0.1 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-01-18 09:13:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 170.14 Mbit/s  
95th percentile per-packet one-way delay: 153.666 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 170.14 Mbit/s  
95th percentile per-packet one-way delay: 153.666 ms  
Loss rate: 0.23%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-18 05:09:57

End at: 2019-01-18 05:10:27

Local clock offset: -0.026 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-01-18 09:13:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 175.64 Mbit/s

95th percentile per-packet one-way delay: 96.088 ms

Loss rate: 1.83%

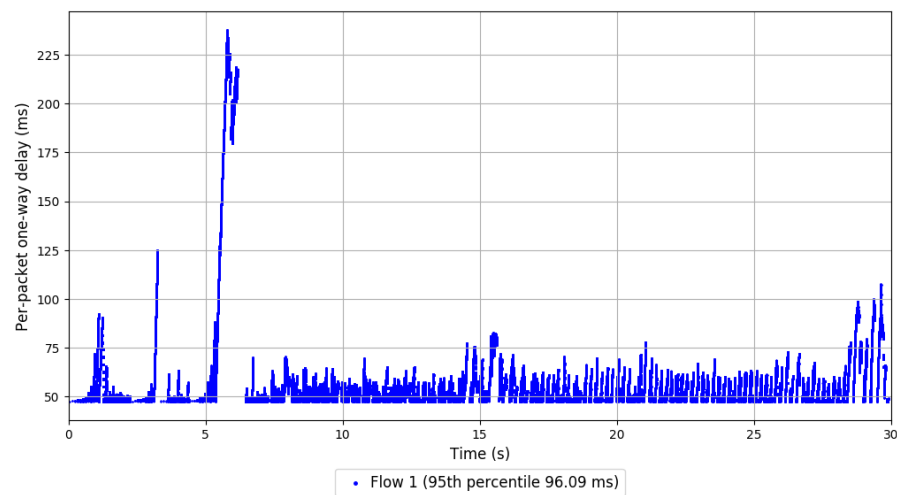
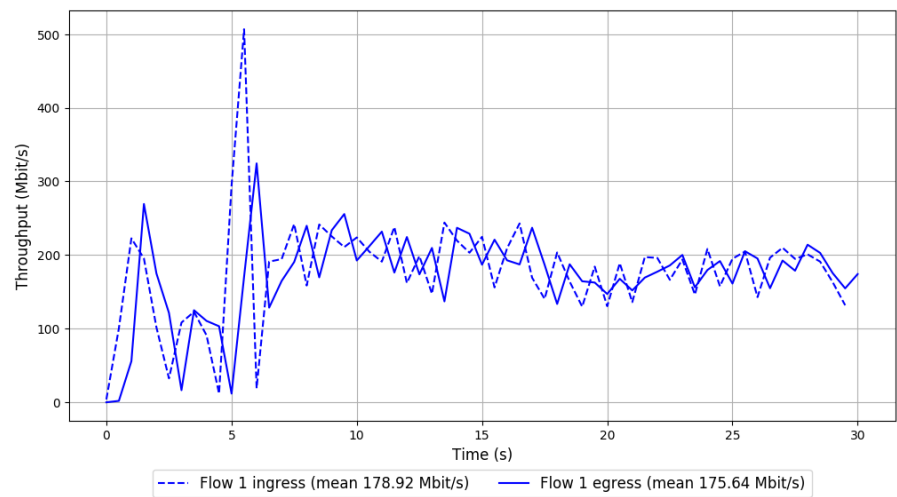
-- Flow 1:

Average throughput: 175.64 Mbit/s

95th percentile per-packet one-way delay: 96.088 ms

Loss rate: 1.83%

Run 2: Report of Verus — Data Link



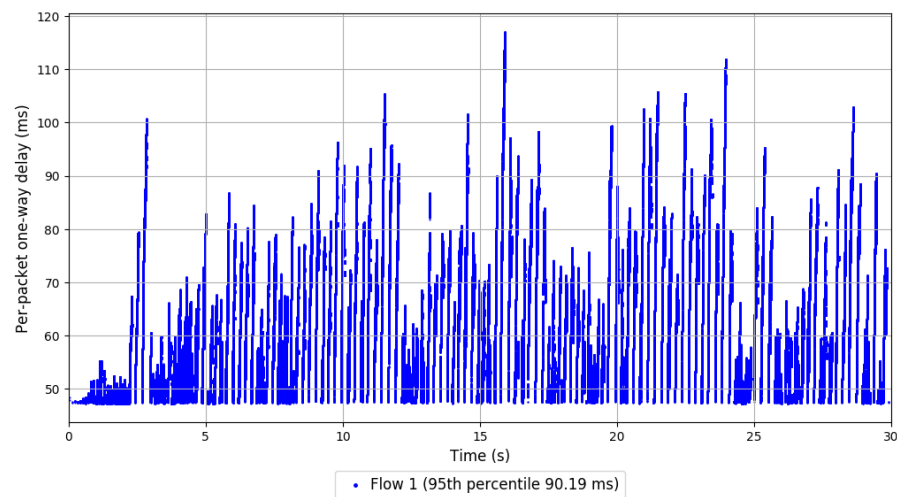
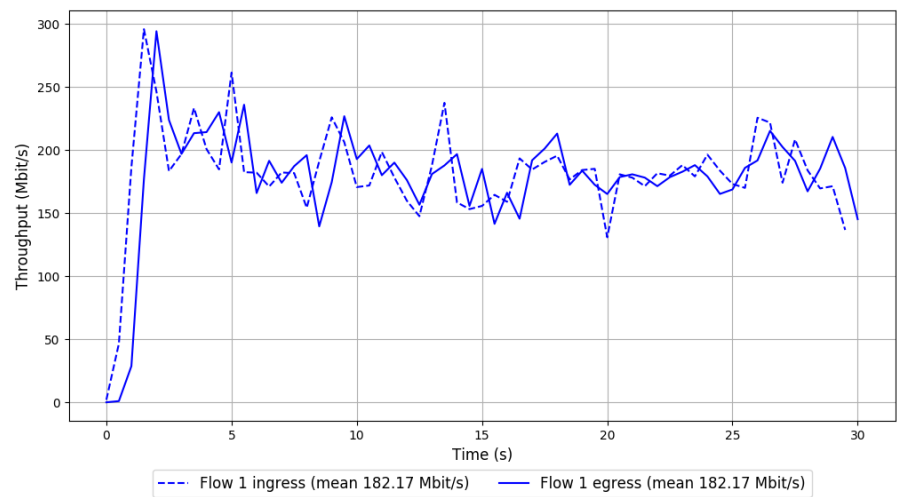


Run 3: Statistics of Verus

Start at: 2019-01-18 05:44:18  
End at: 2019-01-18 05:44:48  
Local clock offset: 0.066 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-01-18 09:13:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 182.17 Mbit/s  
95th percentile per-packet one-way delay: 90.189 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 182.17 Mbit/s  
95th percentile per-packet one-way delay: 90.189 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link

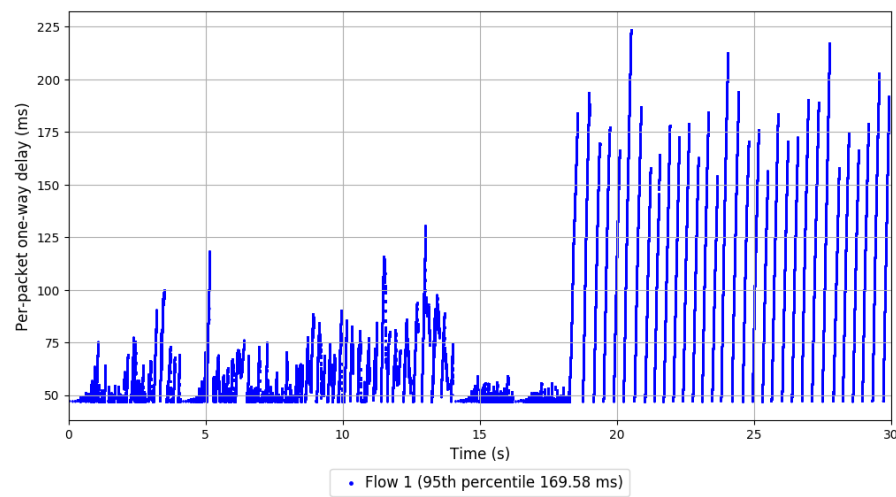
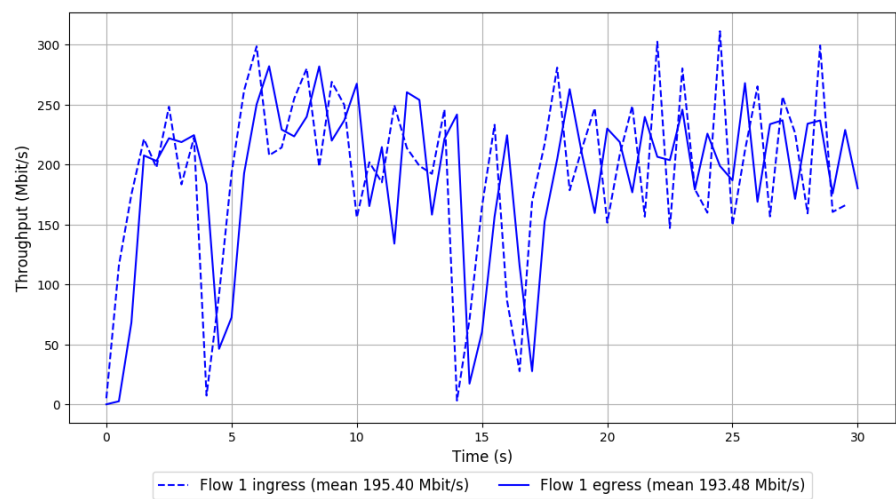


Run 4: Statistics of Verus

Start at: 2019-01-18 06:18:37  
End at: 2019-01-18 06:19:07  
Local clock offset: 0.369 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-01-18 09:13:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 193.48 Mbit/s  
95th percentile per-packet one-way delay: 169.584 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 193.48 Mbit/s  
95th percentile per-packet one-way delay: 169.584 ms  
Loss rate: 0.60%

Run 4: Report of Verus — Data Link

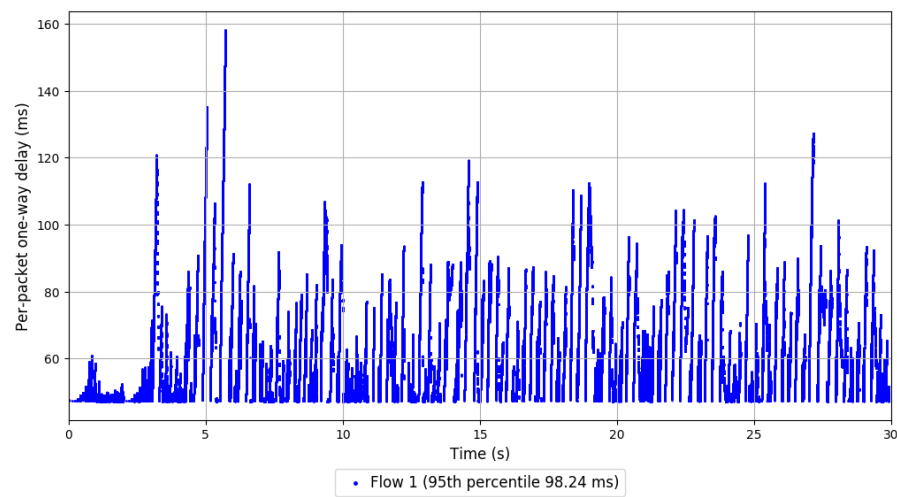
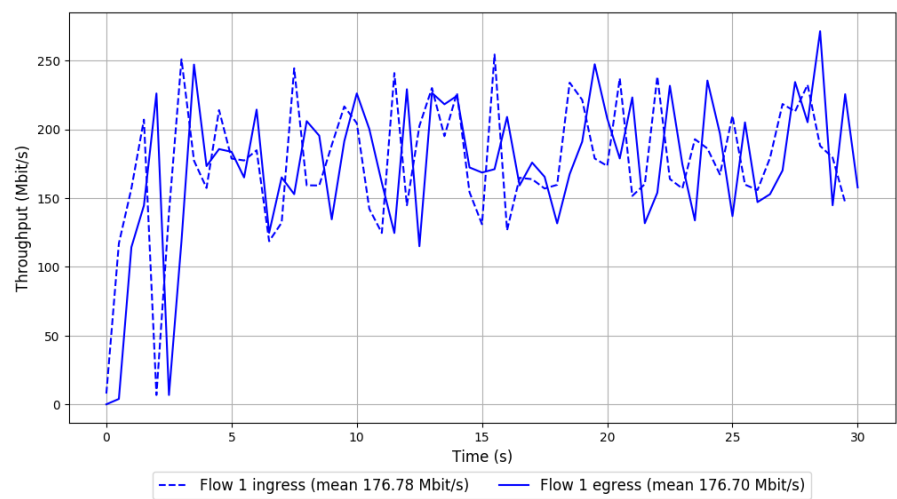


Run 5: Statistics of Verus

Start at: 2019-01-18 06:51:36  
End at: 2019-01-18 06:52:06  
Local clock offset: 0.1 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-01-18 09:13:31  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 176.70 Mbit/s  
95th percentile per-packet one-way delay: 98.240 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 176.70 Mbit/s  
95th percentile per-packet one-way delay: 98.240 ms  
Loss rate: 0.04%

Run 5: Report of Verus — Data Link

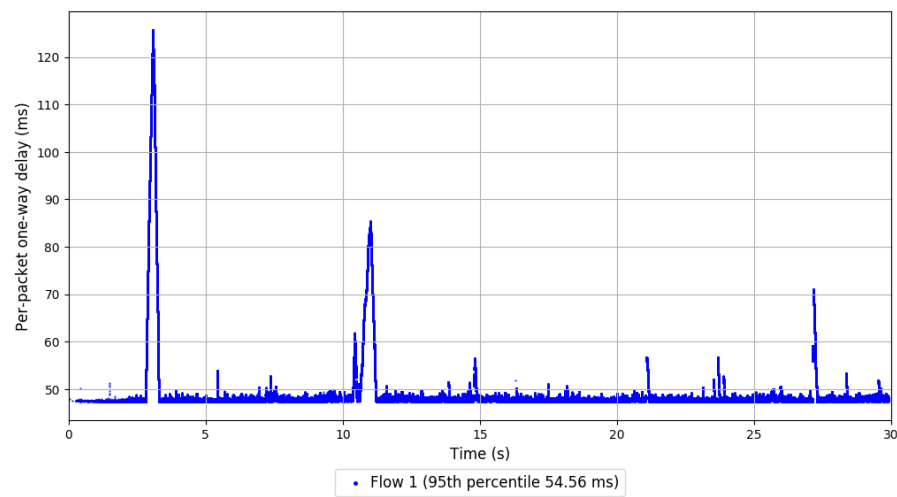
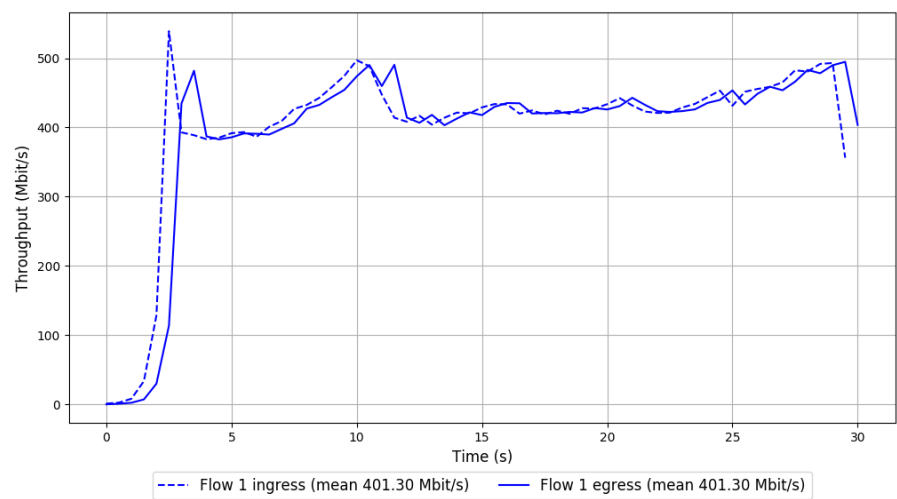


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-18 04:25:46  
End at: 2019-01-18 04:26:16  
Local clock offset: -0.029 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-01-18 09:15:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 401.30 Mbit/s  
95th percentile per-packet one-way delay: 54.565 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 401.30 Mbit/s  
95th percentile per-packet one-way delay: 54.565 ms  
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link



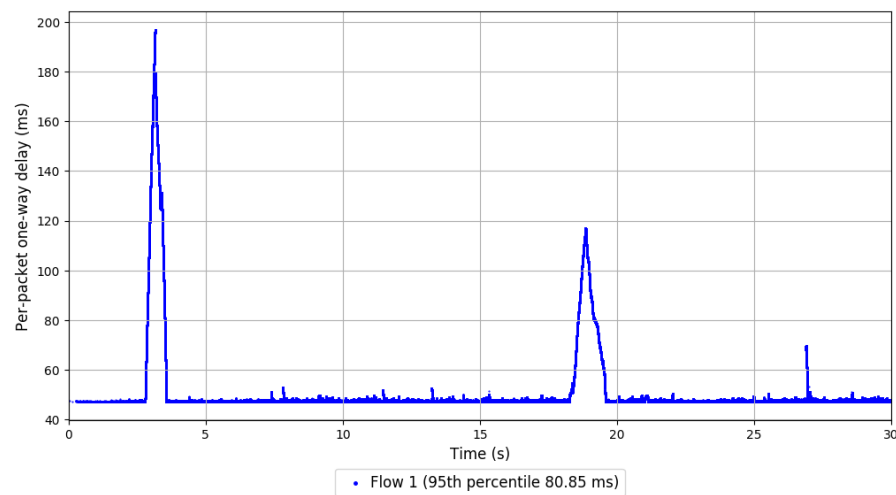
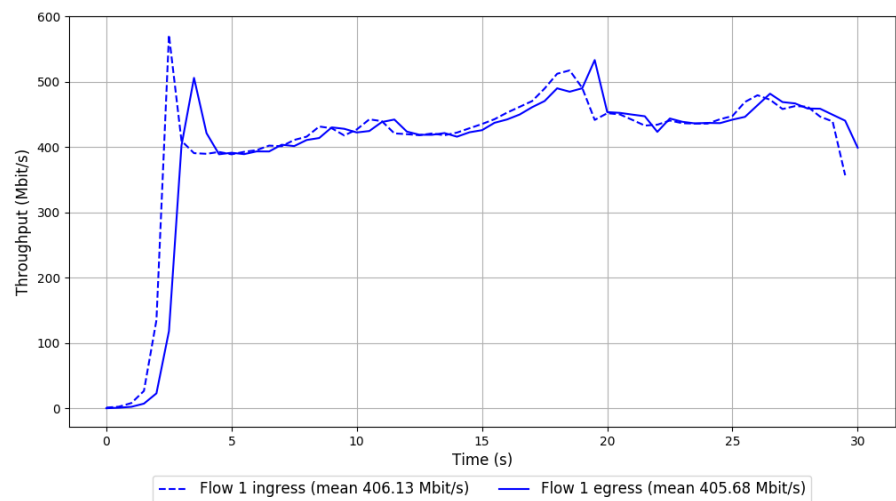


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-18 04:56:30  
End at: 2019-01-18 04:57:00  
Local clock offset: -0.058 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-01-18 09:16:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 405.68 Mbit/s  
95th percentile per-packet one-way delay: 80.851 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 405.68 Mbit/s  
95th percentile per-packet one-way delay: 80.851 ms  
Loss rate: 0.11%

Run 2: Report of PCC-Vivace — Data Link

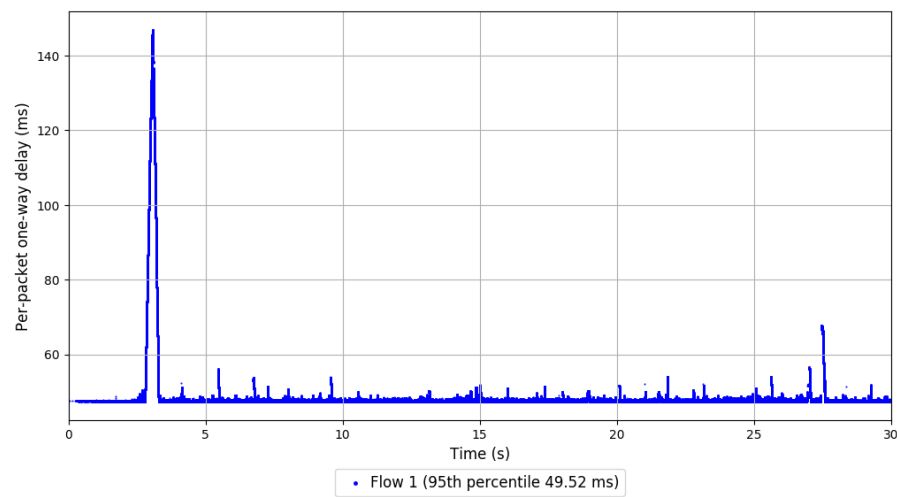
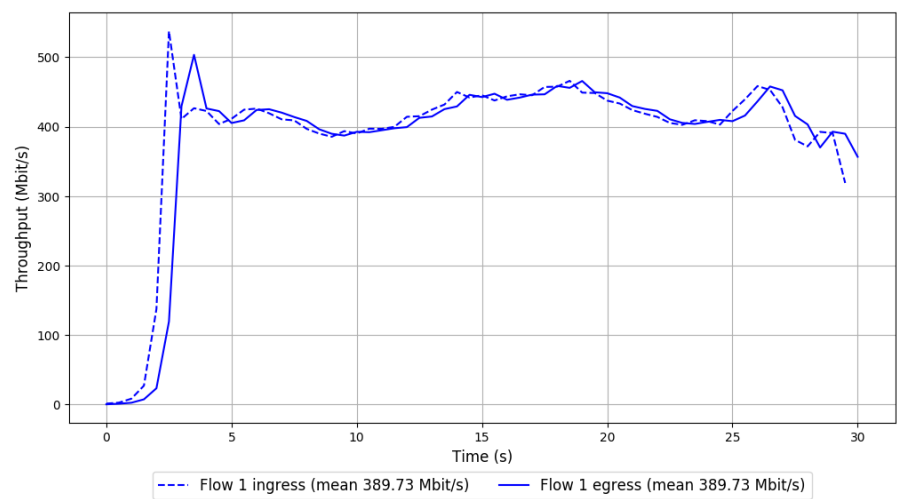


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-18 05:30:36  
End at: 2019-01-18 05:31:06  
Local clock offset: -0.076 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-01-18 09:16:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 389.73 Mbit/s  
95th percentile per-packet one-way delay: 49.522 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 389.73 Mbit/s  
95th percentile per-packet one-way delay: 49.522 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

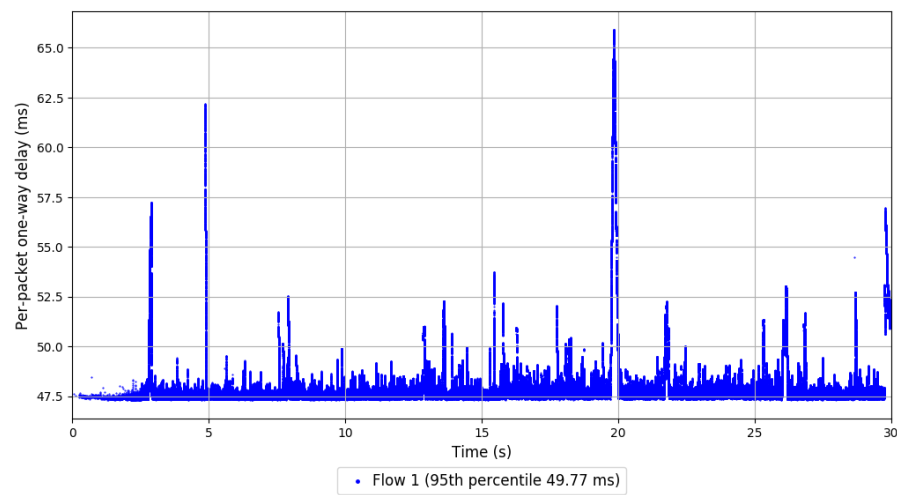
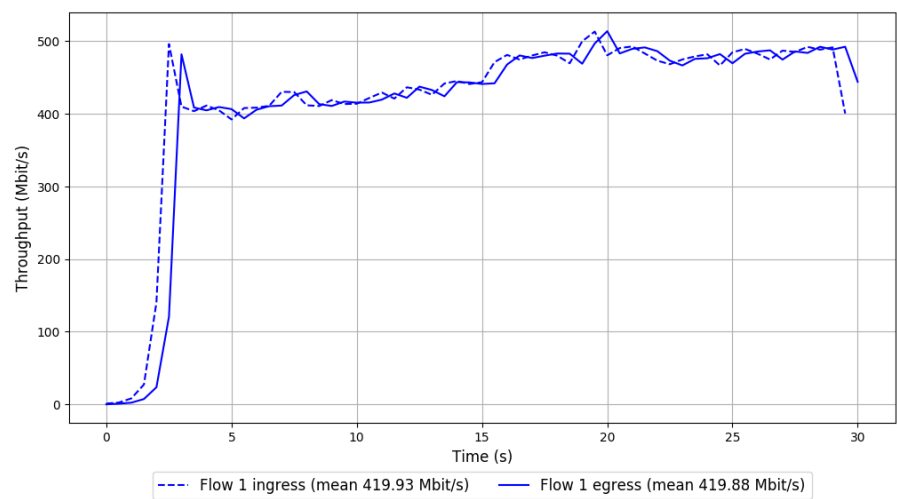


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-18 06:04:56  
End at: 2019-01-18 06:05:26  
Local clock offset: -0.019 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-01-18 09:16:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 419.88 Mbit/s  
95th percentile per-packet one-way delay: 49.774 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 419.88 Mbit/s  
95th percentile per-packet one-way delay: 49.774 ms  
Loss rate: 0.01%

Run 4: Report of PCC-Vivace — Data Link

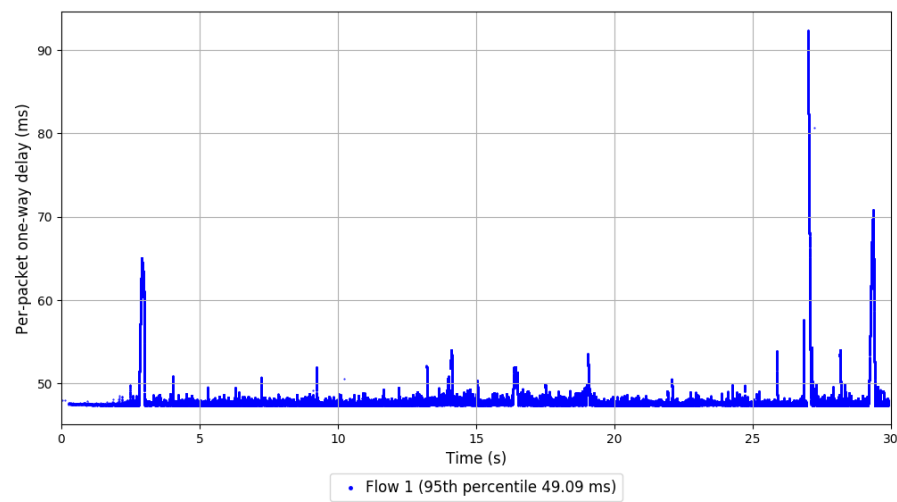
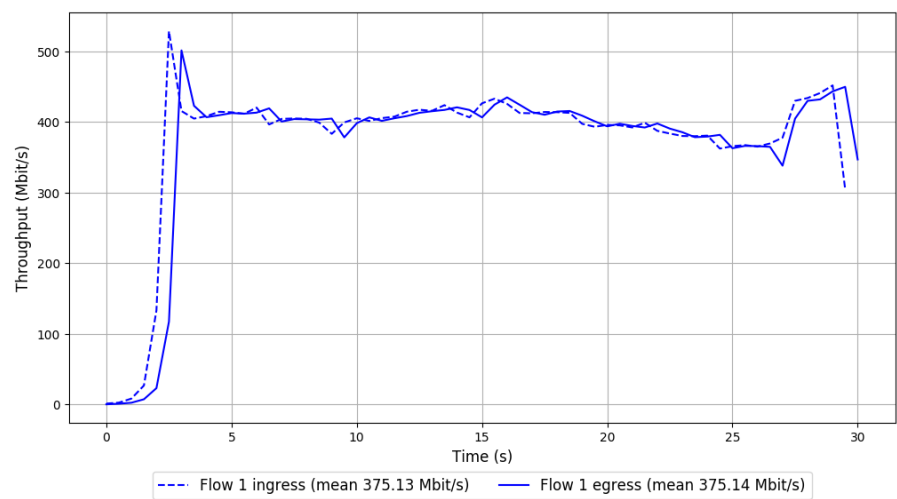


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-18 06:39:17  
End at: 2019-01-18 06:39:47  
Local clock offset: -0.025 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-01-18 09:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 375.14 Mbit/s  
95th percentile per-packet one-way delay: 49.090 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 375.14 Mbit/s  
95th percentile per-packet one-way delay: 49.090 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



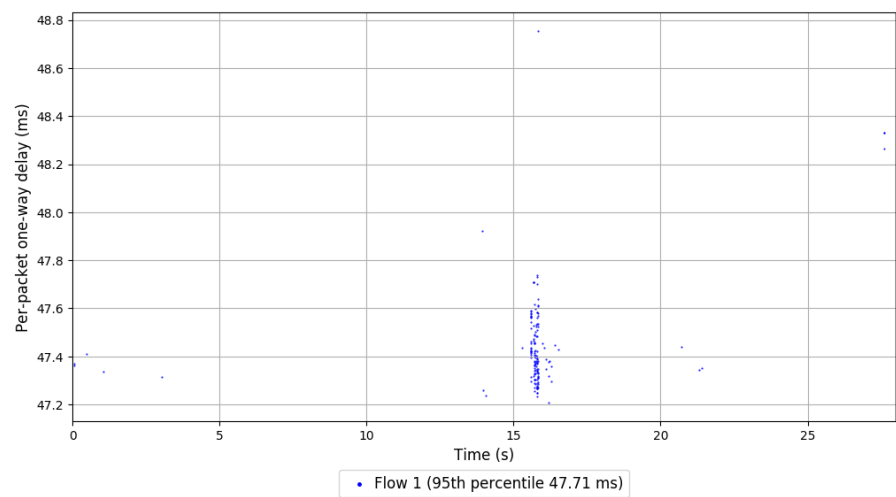
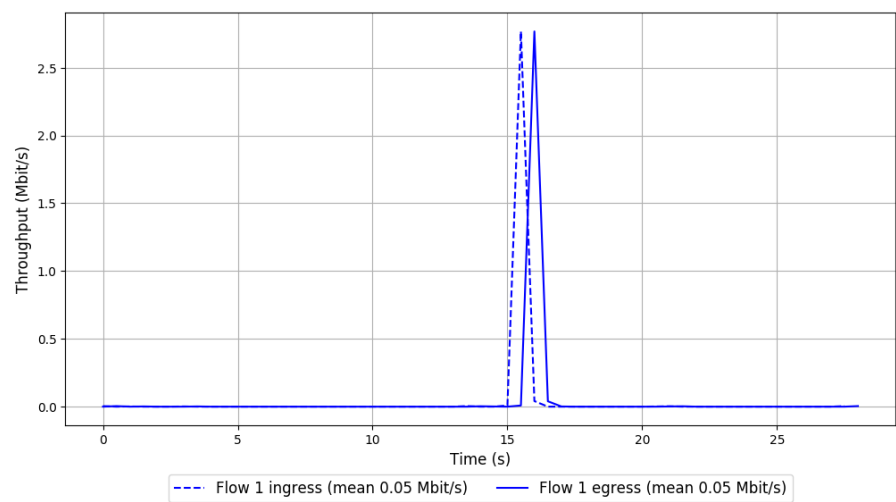


Run 1: Statistics of WebRTC media

Start at: 2019-01-18 04:47:04  
End at: 2019-01-18 04:47:34  
Local clock offset: 0.119 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-01-18 09:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.710 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.710 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

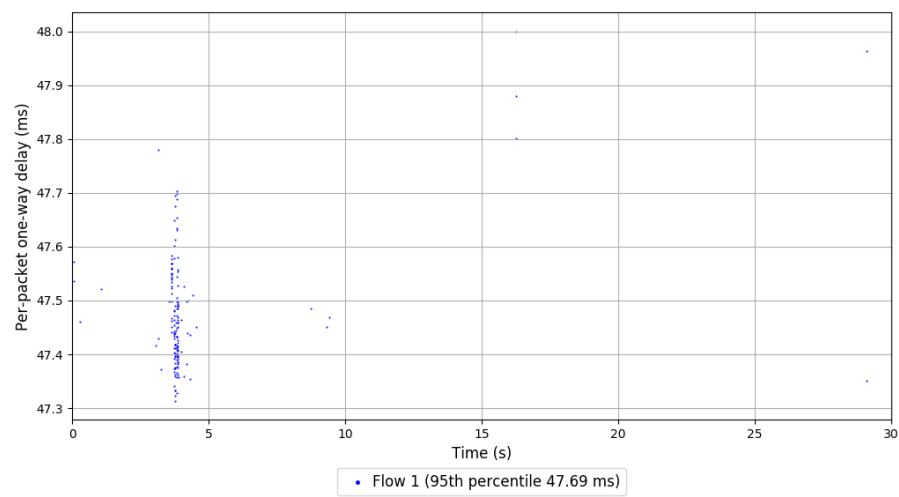
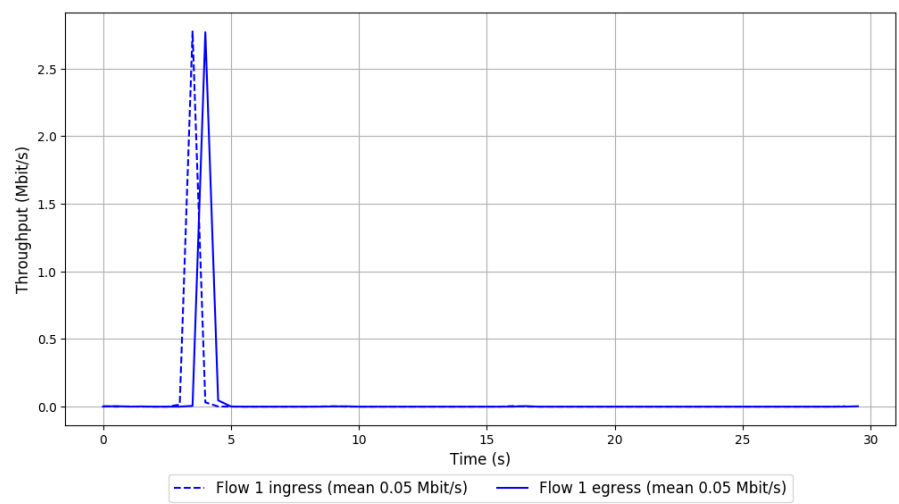


Run 2: Statistics of WebRTC media

Start at: 2019-01-18 05:20:30  
End at: 2019-01-18 05:21:00  
Local clock offset: -0.006 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-01-18 09:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.688 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.688 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

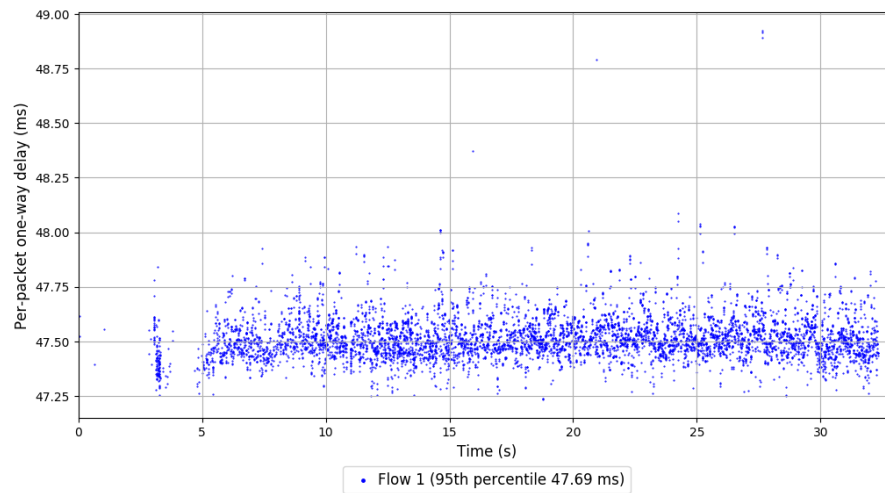
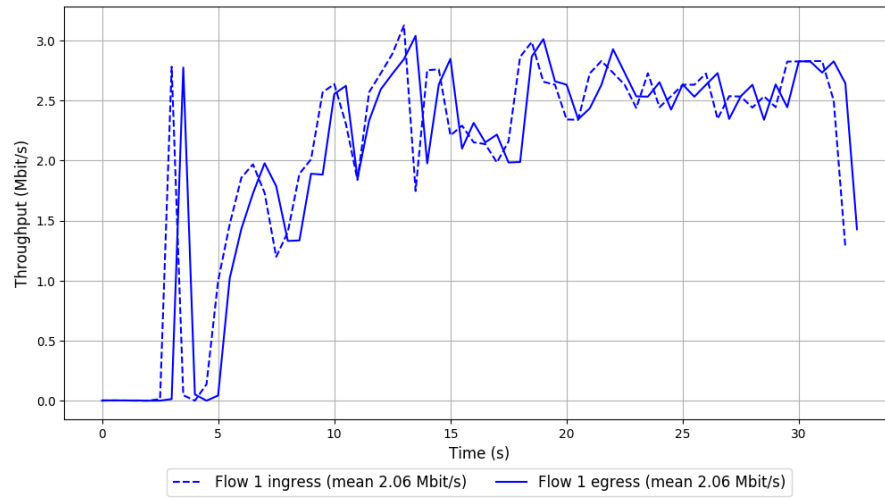


Run 3: Statistics of WebRTC media

Start at: 2019-01-18 05:54:32  
End at: 2019-01-18 05:55:02  
Local clock offset: -0.018 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-01-18 09:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 47.690 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.06 Mbit/s  
95th percentile per-packet one-way delay: 47.690 ms  
Loss rate: 0.00%

### Run 3: Report of WebRTC media — Data Link

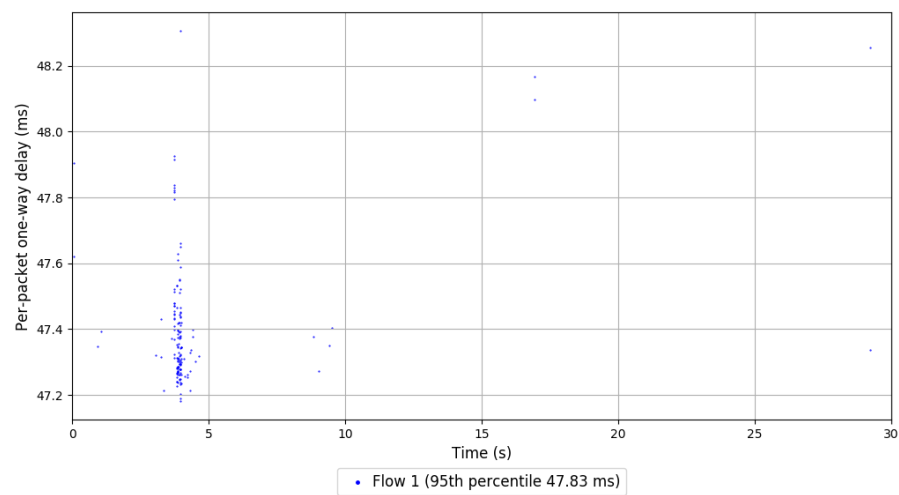
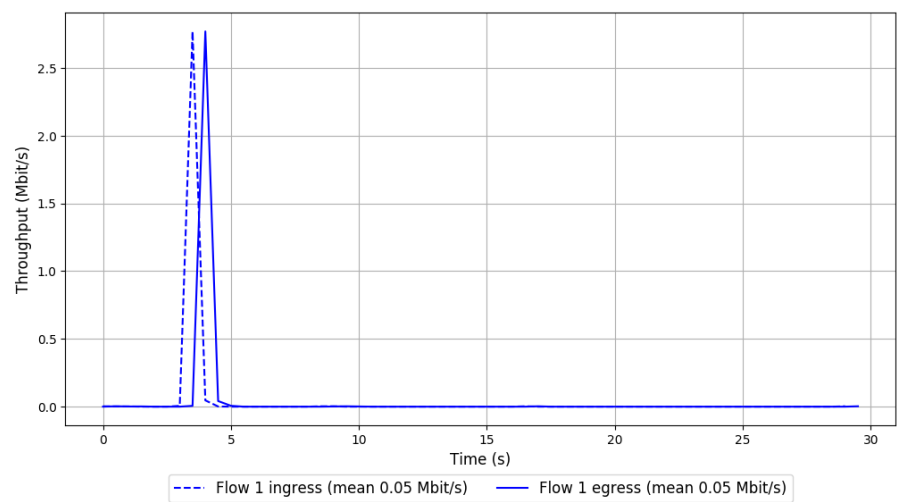


Run 4: Statistics of WebRTC media

Start at: 2019-01-18 06:29:04  
End at: 2019-01-18 06:29:34  
Local clock offset: 0.403 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-01-18 09:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.829 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 47.829 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-18 07:01:05  
End at: 2019-01-18 07:01:35  
Local clock offset: -0.469 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-01-18 09:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 48.157 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.04 Mbit/s  
95th percentile per-packet one-way delay: 48.157 ms  
Loss rate: 0.00%

# Run 5: Report of WebRTC media — Data Link

