

## Pantheon Report

Generated at 2019-01-19 09:45:42 (UTC).

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

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:

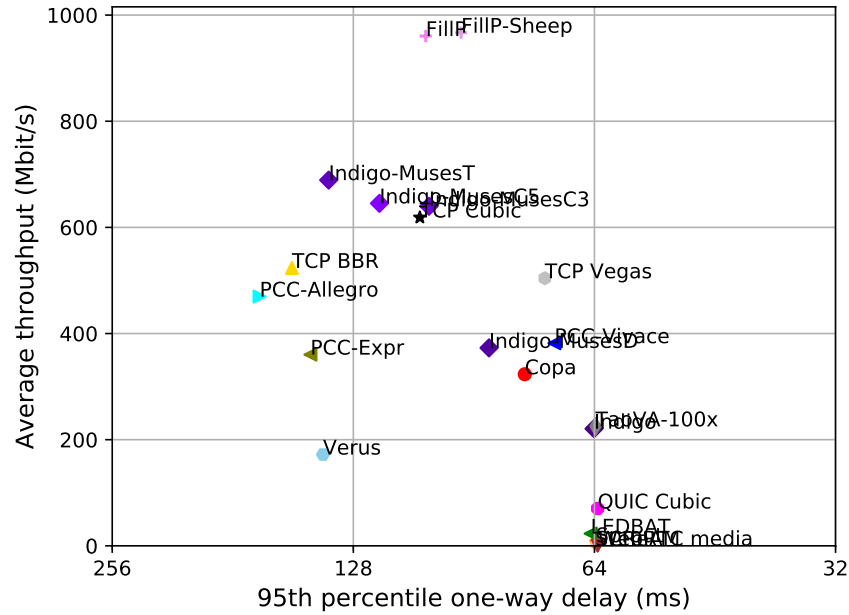
```
Linux 4.15.0-1026-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

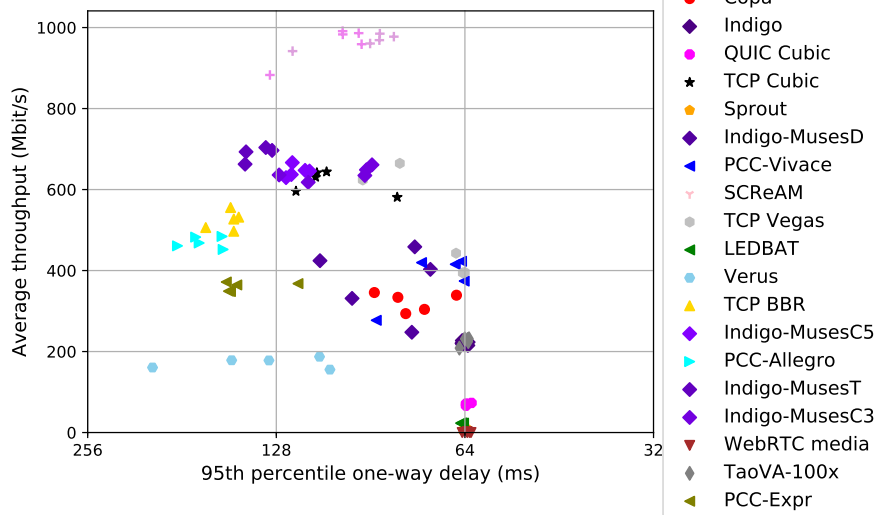
```
branch: muses @ c80a283586bf7b0cc1fe08c69c8f60d56498f81c
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9c077e64d
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 Tokyo to GCE Iowa, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Tokyo to GCE Iowa, 5 runs of 30s each per scheme



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	523.62	152.72	1.19
Copa	5	323.30	78.19	0.40
TCP Cubic	5	618.63	105.73	0.55
FillP	5	960.45	103.94	1.09
FillP-Sheep	5	966.76	93.89	0.80
Indigo	5	220.70	64.08	0.46
Indigo-MusesC3	5	639.71	102.98	0.56
Indigo-MusesC5	5	645.25	118.75	0.63
Indigo-MusesD	5	372.96	86.66	0.92
Indigo-MusesT	4	689.06	137.41	0.89
LEDBAT	5	23.09	64.71	0.76
PCC-Allegro	5	469.60	167.58	2.54
PCC-Expr	5	360.27	144.83	1.49
QUIC Cubic	4	70.35	63.42	0.57
SCReAM	5	0.22	63.83	0.46
Sprout	5	6.80	63.72	0.39
TaoVA-100x	5	225.12	63.80	0.44
TCP Vegas	5	504.17	73.82	0.40
Verus	5	171.97	139.67	2.01
PCC-Vivace	5	381.84	71.80	0.82
WebRTC media	5	0.47	63.41	0.11



Run 1: Statistics of TCP BBR

Start at: 2019-01-19 05:26:44

End at: 2019-01-19 05:27:14

Local clock offset: -0.136 ms

Remote clock offset: -0.855 ms

# Below is generated by plot.py at 2019-01-19 08:01:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 506.23 Mbit/s

95th percentile per-packet one-way delay: 165.889 ms

Loss rate: 1.83%

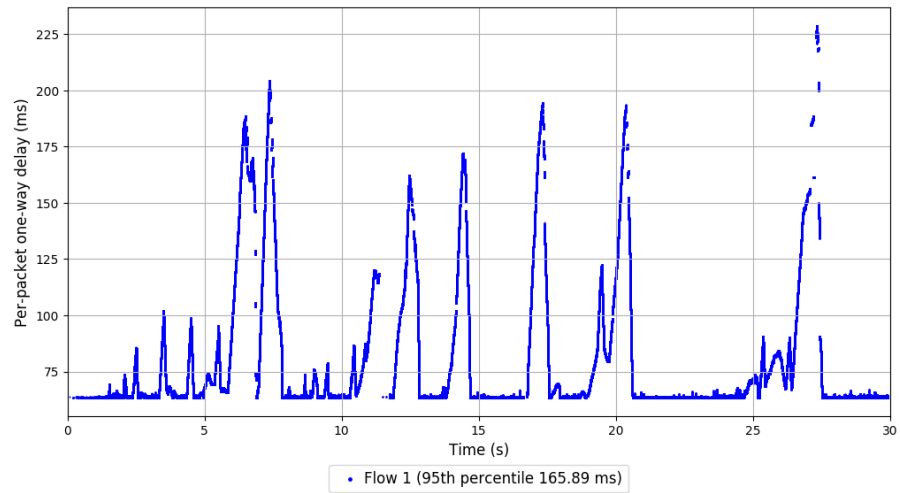
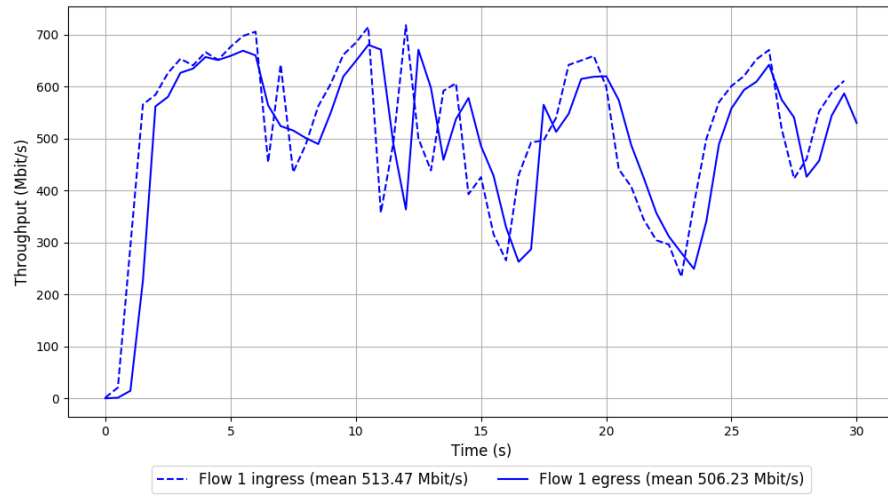
-- Flow 1:

Average throughput: 506.23 Mbit/s

95th percentile per-packet one-way delay: 165.889 ms

Loss rate: 1.83%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-19 05:58:02

End at: 2019-01-19 05:58:32

Local clock offset: 0.01 ms

Remote clock offset: 0.088 ms

# Below is generated by plot.py at 2019-01-19 08:01:59

# Datalink statistics

-- Total of 1 flow:

Average throughput: 555.66 Mbit/s

95th percentile per-packet one-way delay: 151.413 ms

Loss rate: 1.12%

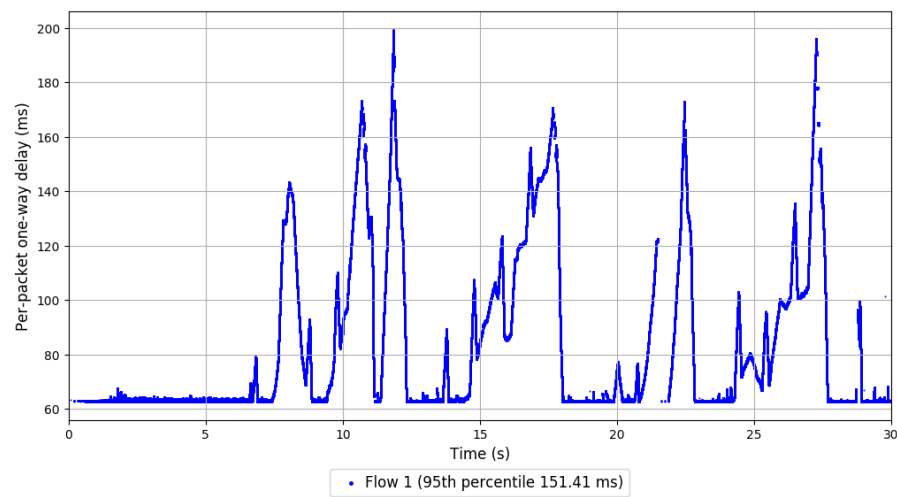
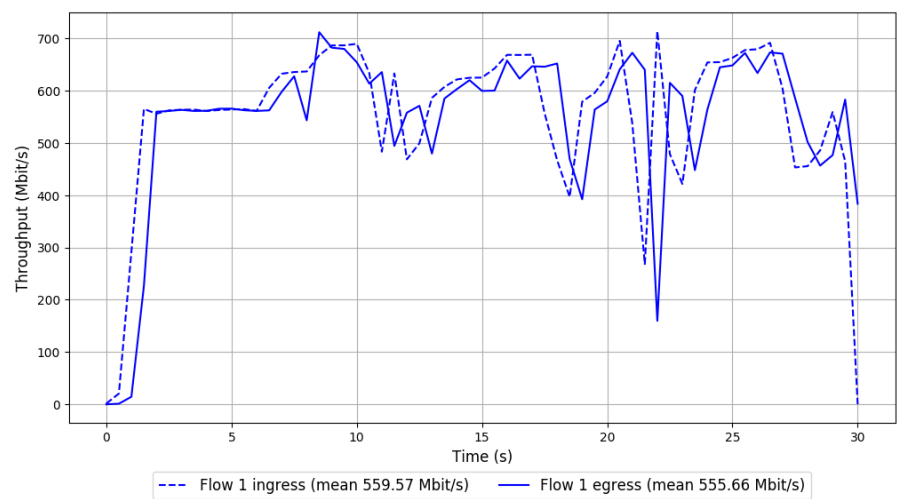
-- Flow 1:

Average throughput: 555.66 Mbit/s

95th percentile per-packet one-way delay: 151.413 ms

Loss rate: 1.12%

Run 2: Report of TCP BBR — Data Link



Run 3: Statistics of TCP BBR

Start at: 2019-01-19 06:29:20

End at: 2019-01-19 06:29:50

Local clock offset: -0.09 ms

Remote clock offset: 1.215 ms

# Below is generated by plot.py at 2019-01-19 08:02:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 527.19 Mbit/s

95th percentile per-packet one-way delay: 149.656 ms

Loss rate: 1.21%

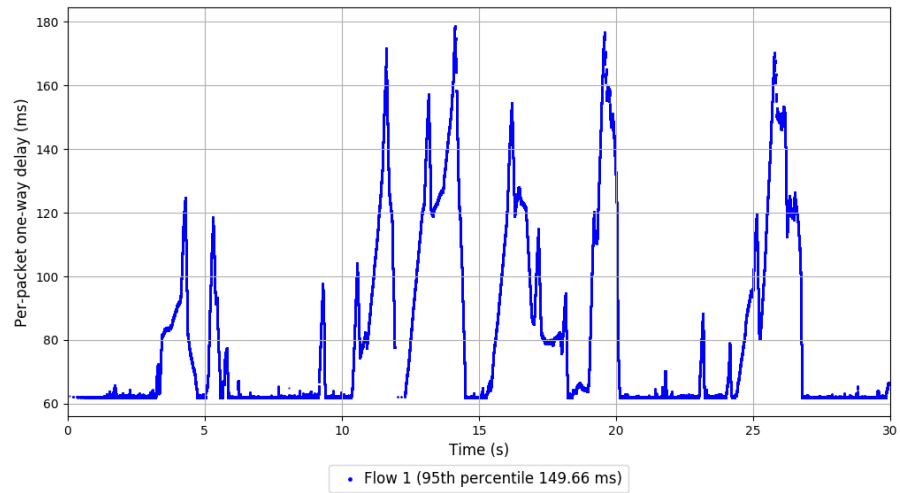
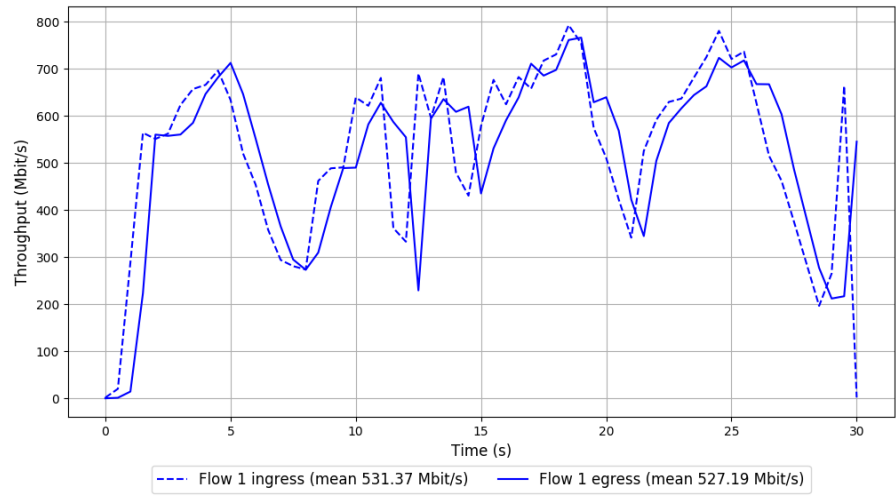
-- Flow 1:

Average throughput: 527.19 Mbit/s

95th percentile per-packet one-way delay: 149.656 ms

Loss rate: 1.21%

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

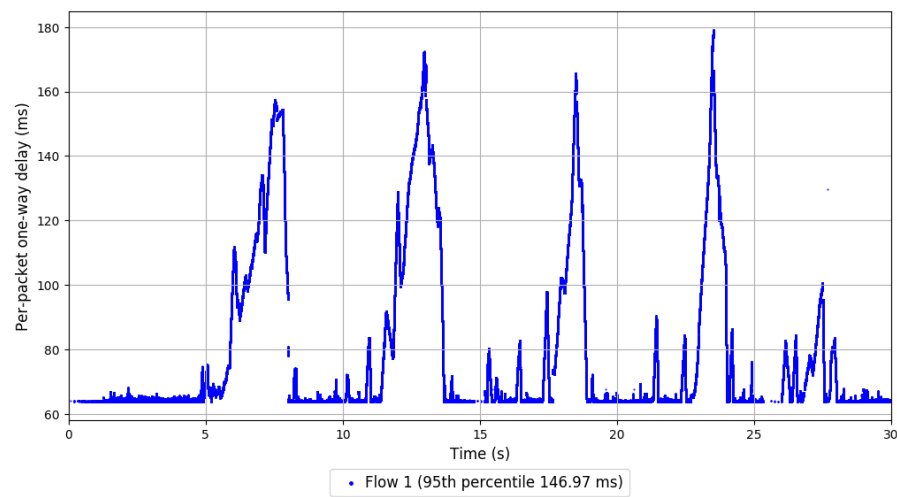
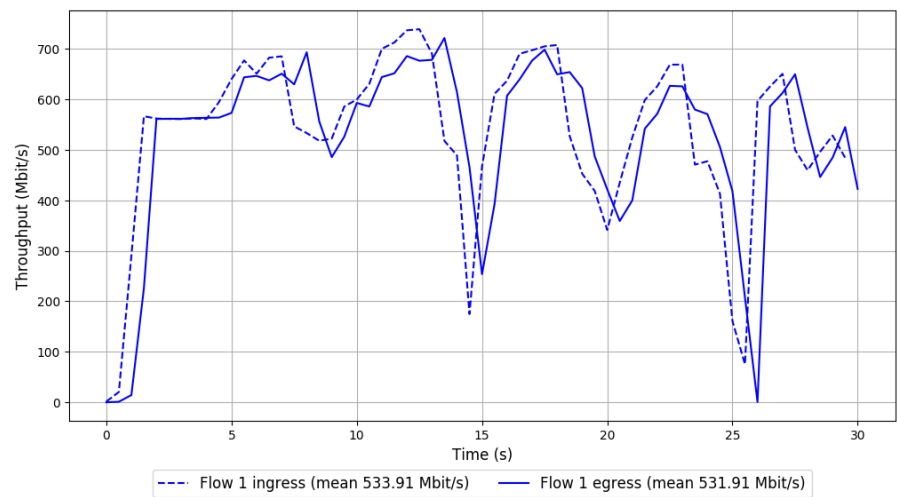


Run 4: Statistics of TCP BBR

Start at: 2019-01-19 07:00:41  
End at: 2019-01-19 07:01:11  
Local clock offset: 0.06 ms  
Remote clock offset: -0.924 ms

# Below is generated by plot.py at 2019-01-19 08:02:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 531.91 Mbit/s  
95th percentile per-packet one-way delay: 146.970 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 531.91 Mbit/s  
95th percentile per-packet one-way delay: 146.970 ms  
Loss rate: 0.79%

Run 4: Report of TCP BBR — Data Link



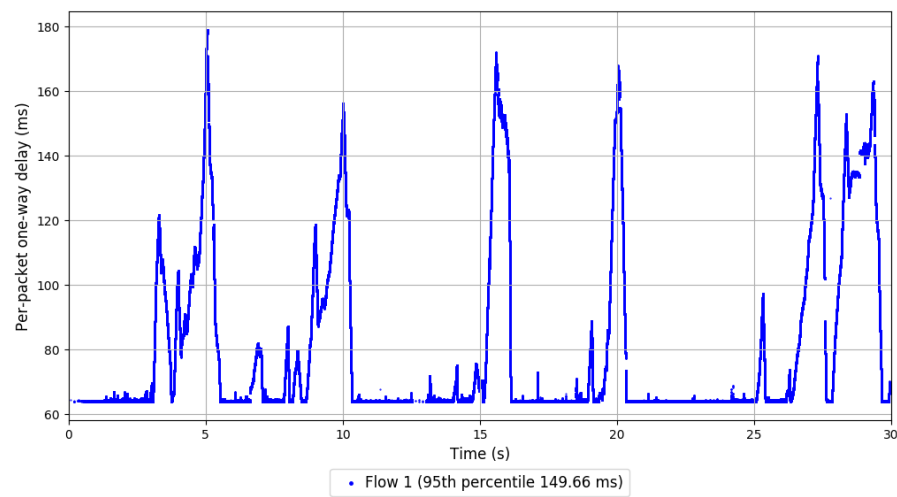
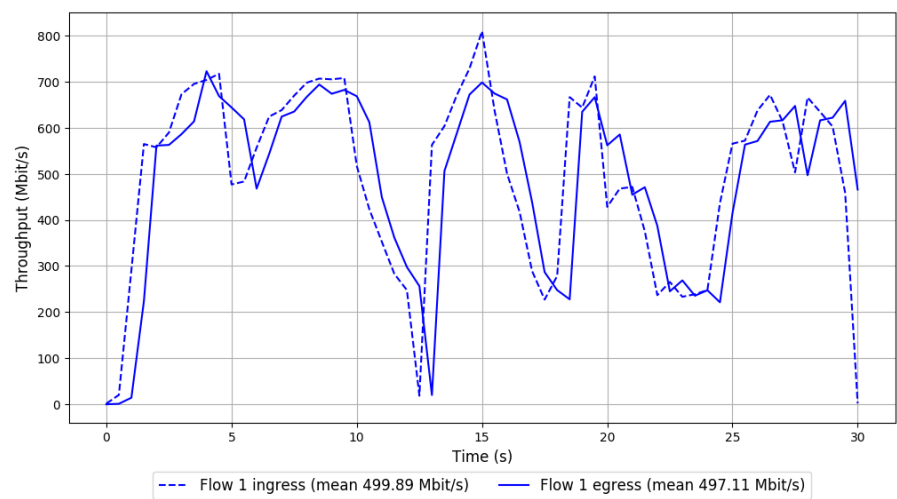


Run 5: Statistics of TCP BBR

Start at: 2019-01-19 07:32:13  
End at: 2019-01-19 07:32:43  
Local clock offset: -0.039 ms  
Remote clock offset: -0.863 ms

# Below is generated by plot.py at 2019-01-19 08:02:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 497.11 Mbit/s  
95th percentile per-packet one-way delay: 149.665 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 497.11 Mbit/s  
95th percentile per-packet one-way delay: 149.665 ms  
Loss rate: 0.98%

Run 5: Report of TCP BBR — Data Link

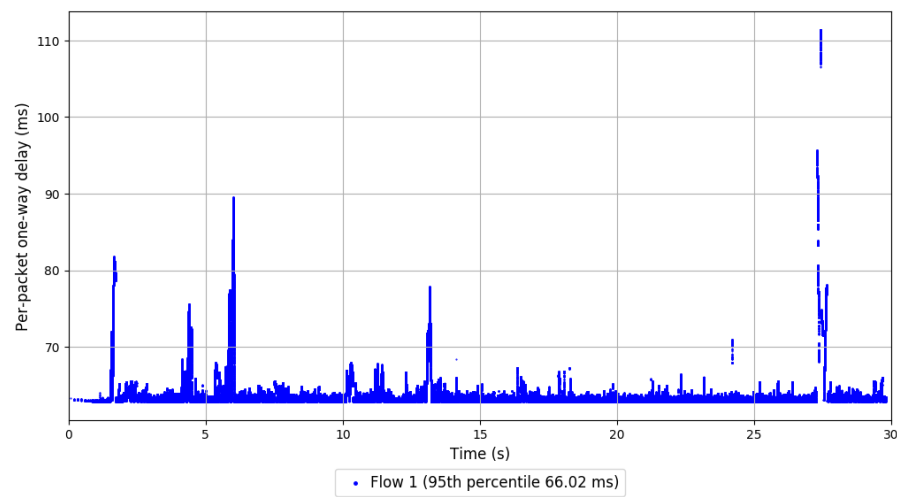
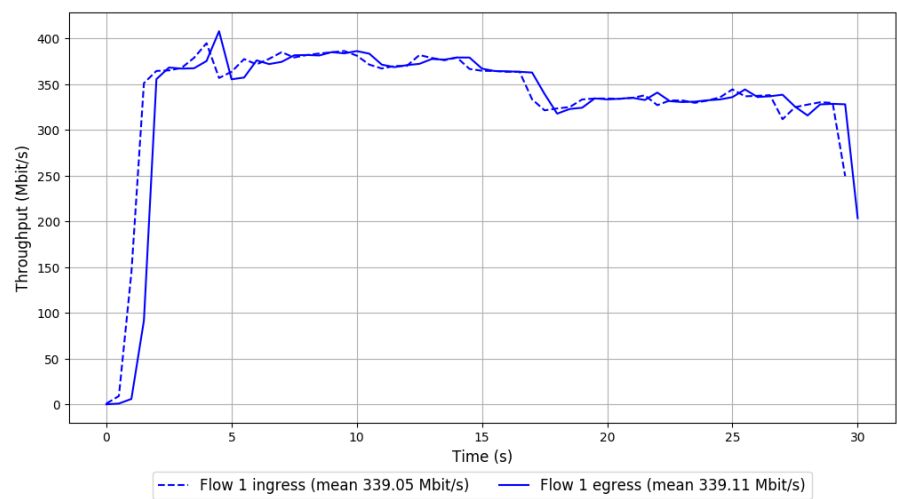


Run 1: Statistics of Copa

Start at: 2019-01-19 05:04:46  
End at: 2019-01-19 05:05:16  
Local clock offset: -0.136 ms  
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-01-19 08:03:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 339.11 Mbit/s  
95th percentile per-packet one-way delay: 66.017 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 339.11 Mbit/s  
95th percentile per-packet one-way delay: 66.017 ms  
Loss rate: 0.41%

Run 1: Report of Copa — Data Link

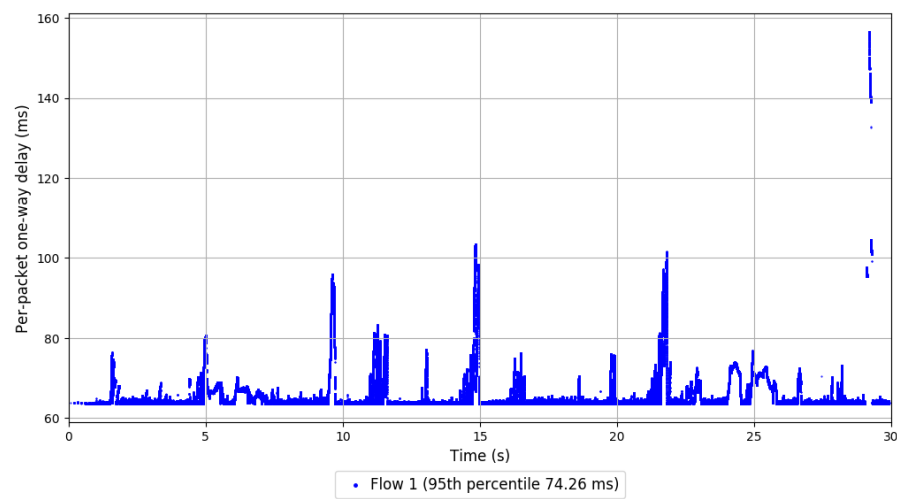
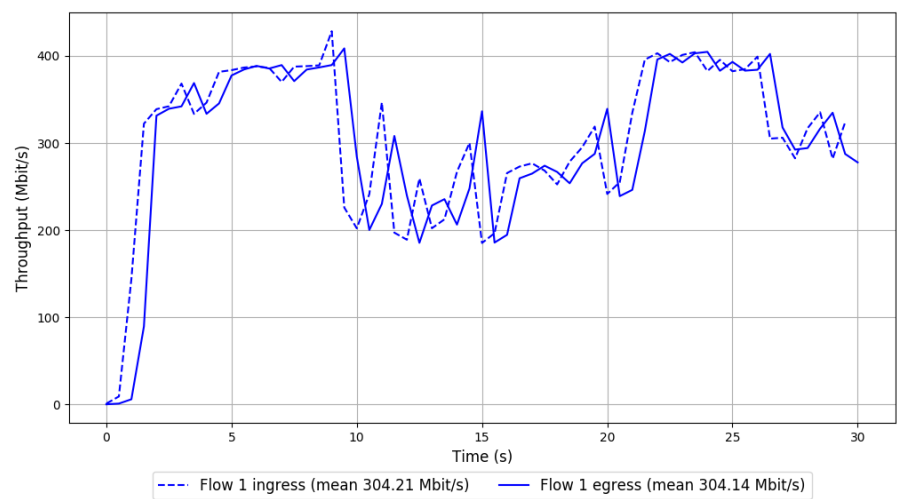


Run 2: Statistics of Copa

Start at: 2019-01-19 05:36:10  
End at: 2019-01-19 05:36:40  
Local clock offset: -0.045 ms  
Remote clock offset: -0.622 ms

# Below is generated by plot.py at 2019-01-19 08:03:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 304.14 Mbit/s  
95th percentile per-packet one-way delay: 74.256 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 304.14 Mbit/s  
95th percentile per-packet one-way delay: 74.256 ms  
Loss rate: 0.44%

Run 2: Report of Copa — Data Link

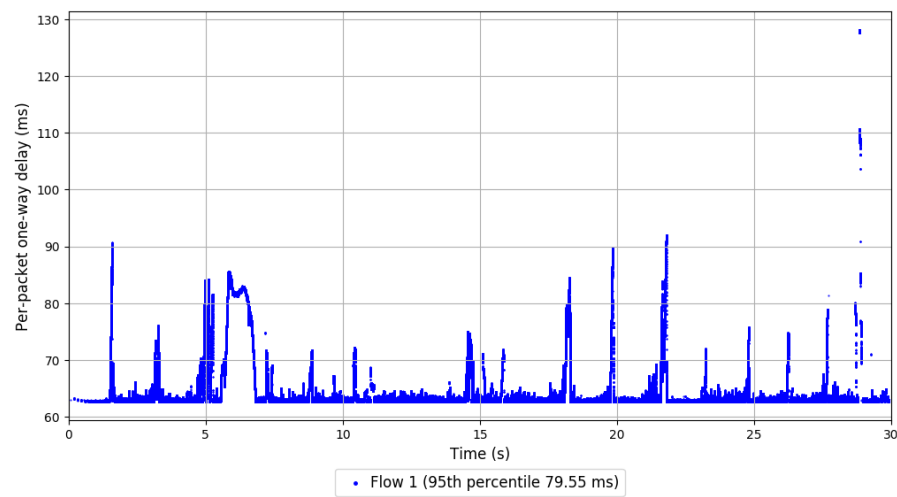
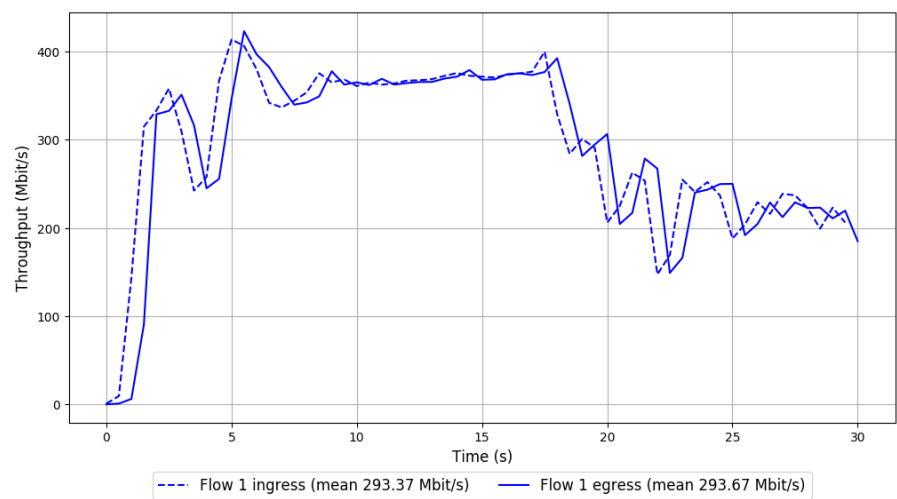


Run 3: Statistics of Copa

Start at: 2019-01-19 06:07:30  
End at: 2019-01-19 06:08:00  
Local clock offset: -0.027 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-01-19 08:03:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 293.67 Mbit/s  
95th percentile per-packet one-way delay: 79.551 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 293.67 Mbit/s  
95th percentile per-packet one-way delay: 79.551 ms  
Loss rate: 0.32%

Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-01-19 06:38:37

End at: 2019-01-19 06:39:07

Local clock offset: 0.014 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-01-19 08:12:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 345.72 Mbit/s

95th percentile per-packet one-way delay: 89.270 ms

Loss rate: 0.36%

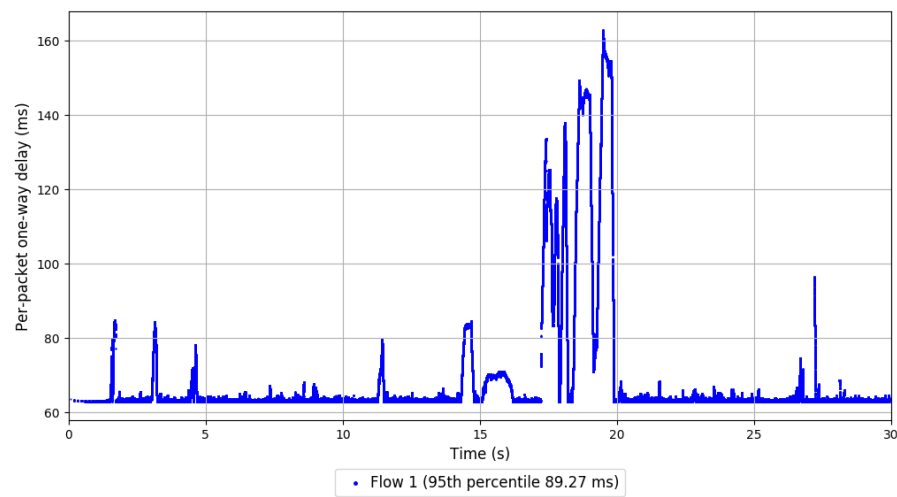
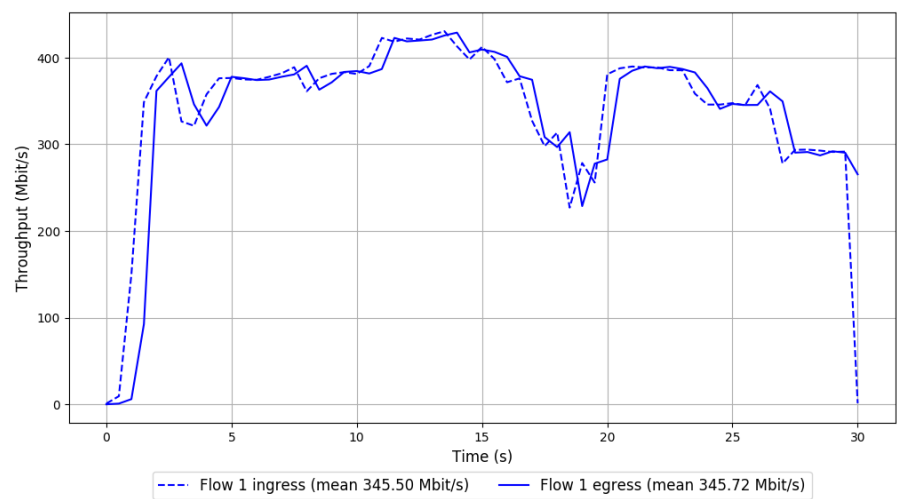
-- Flow 1:

Average throughput: 345.72 Mbit/s

95th percentile per-packet one-way delay: 89.270 ms

Loss rate: 0.36%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-19 07:10:10

End at: 2019-01-19 07:10:40

Local clock offset: 0.111 ms

Remote clock offset: -0.73 ms

# Below is generated by plot.py at 2019-01-19 08:12:24

# Datalink statistics

-- Total of 1 flow:

Average throughput: 333.86 Mbit/s

95th percentile per-packet one-way delay: 81.879 ms

Loss rate: 0.47%

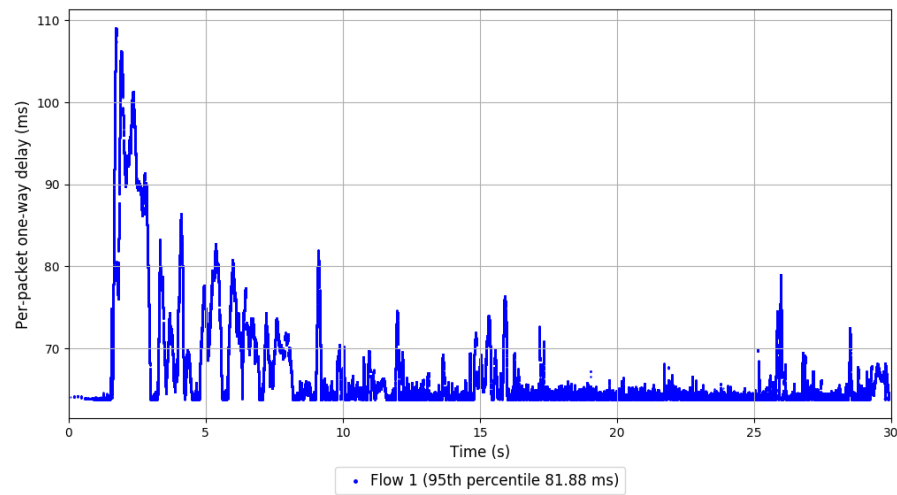
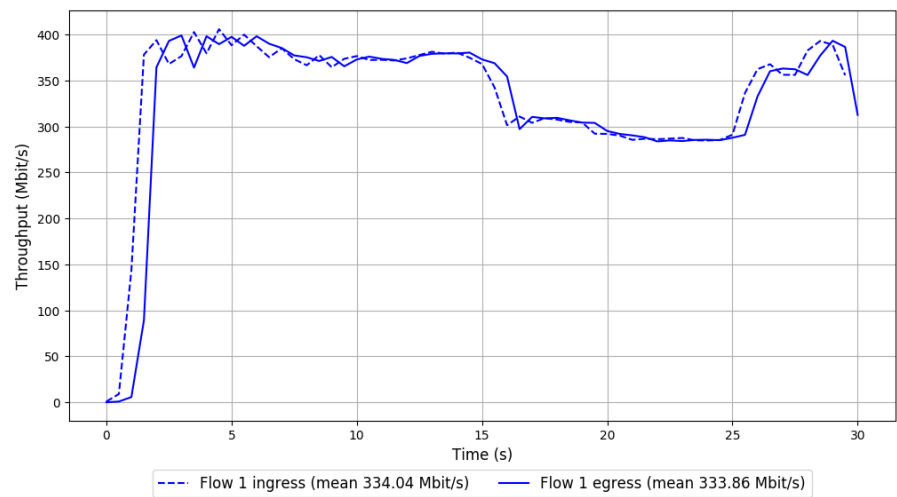
-- Flow 1:

Average throughput: 333.86 Mbit/s

95th percentile per-packet one-way delay: 81.879 ms

Loss rate: 0.47%

Run 5: Report of Copa — Data Link

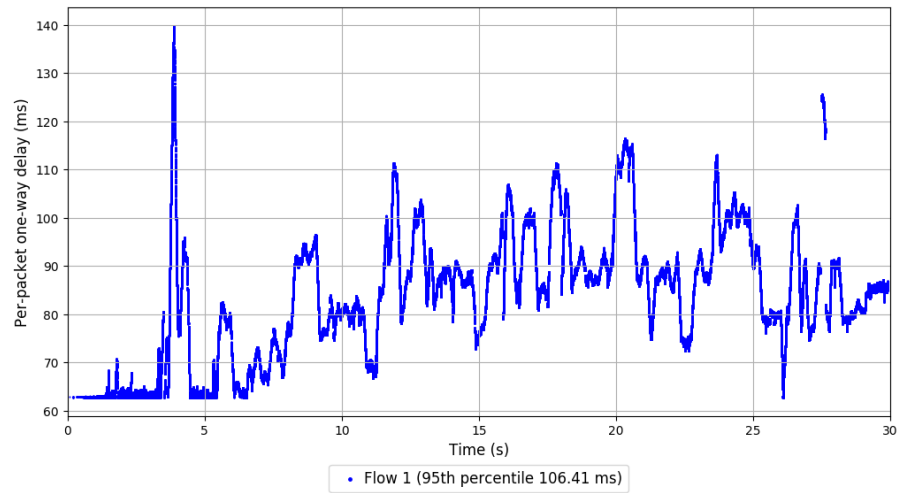
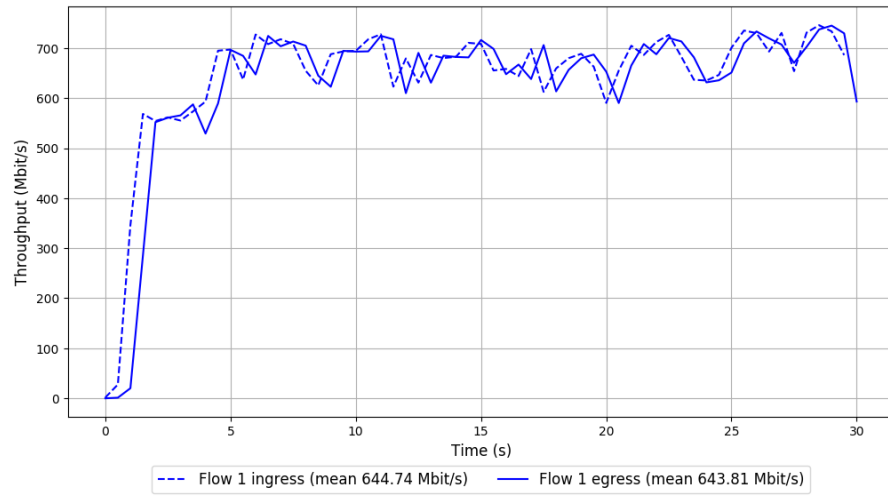


Run 1: Statistics of TCP Cubic

Start at: 2019-01-19 05:19:17  
End at: 2019-01-19 05:19:47  
Local clock offset: -0.126 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-01-19 08:12:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 643.81 Mbit/s  
95th percentile per-packet one-way delay: 106.412 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 643.81 Mbit/s  
95th percentile per-packet one-way delay: 106.412 ms  
Loss rate: 0.56%

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

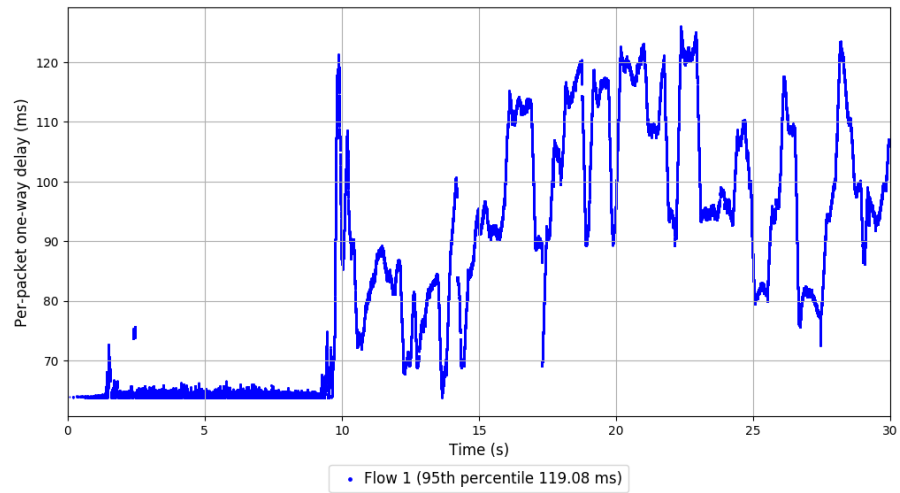
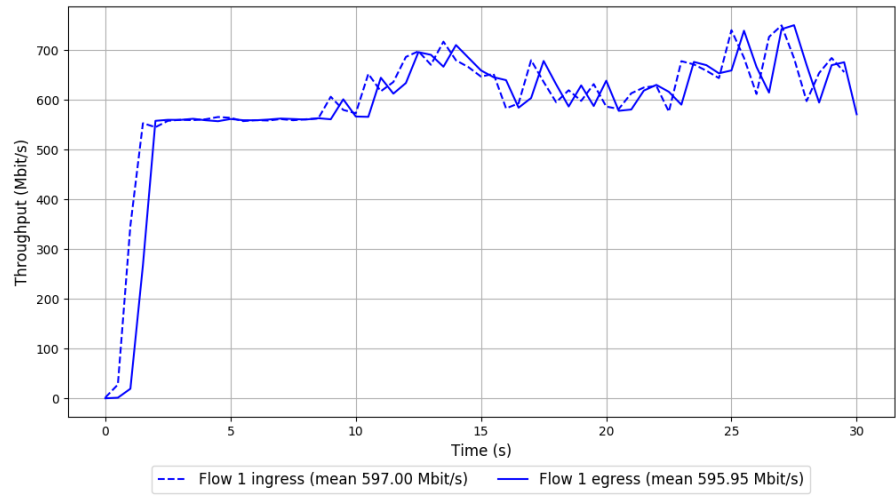


Run 2: Statistics of TCP Cubic

Start at: 2019-01-19 05:50:41  
End at: 2019-01-19 05:51:11  
Local clock offset: -0.004 ms  
Remote clock offset: -0.609 ms

# Below is generated by plot.py at 2019-01-19 08:12:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 595.95 Mbit/s  
95th percentile per-packet one-way delay: 119.082 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 595.95 Mbit/s  
95th percentile per-packet one-way delay: 119.082 ms  
Loss rate: 0.60%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-01-19 06:22:03

End at: 2019-01-19 06:22:33

Local clock offset: -0.077 ms

Remote clock offset: 0.437 ms

# Below is generated by plot.py at 2019-01-19 08:12:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 581.07 Mbit/s

95th percentile per-packet one-way delay: 82.068 ms

Loss rate: 0.45%

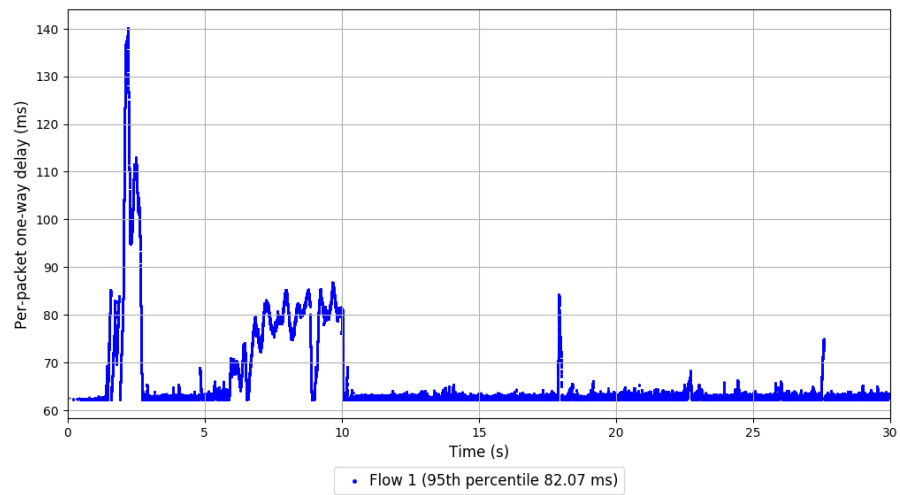
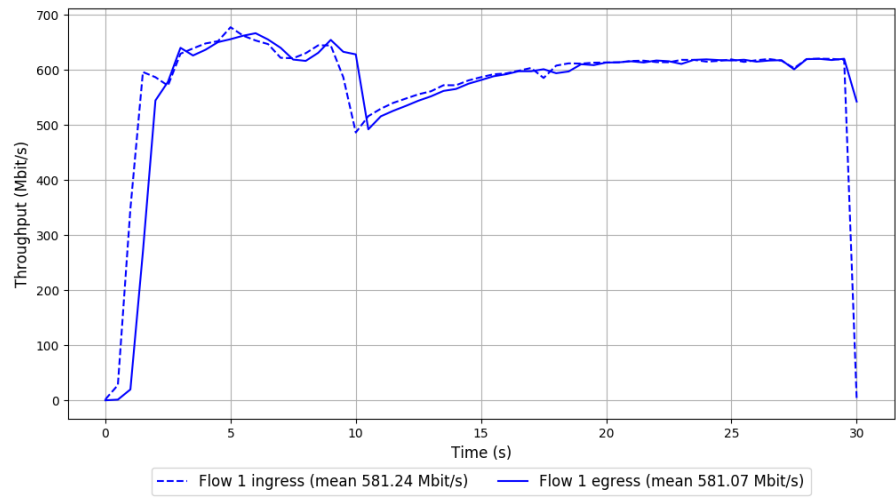
-- Flow 1:

Average throughput: 581.07 Mbit/s

95th percentile per-packet one-way delay: 82.068 ms

Loss rate: 0.45%

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

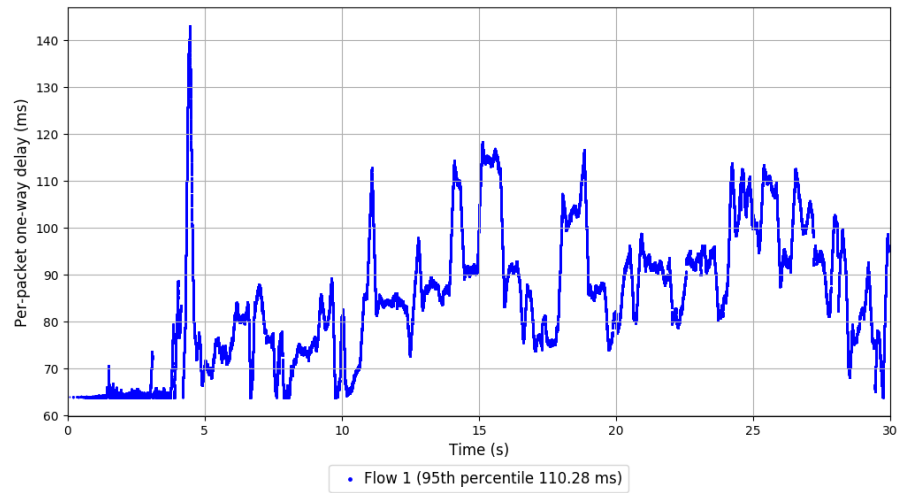
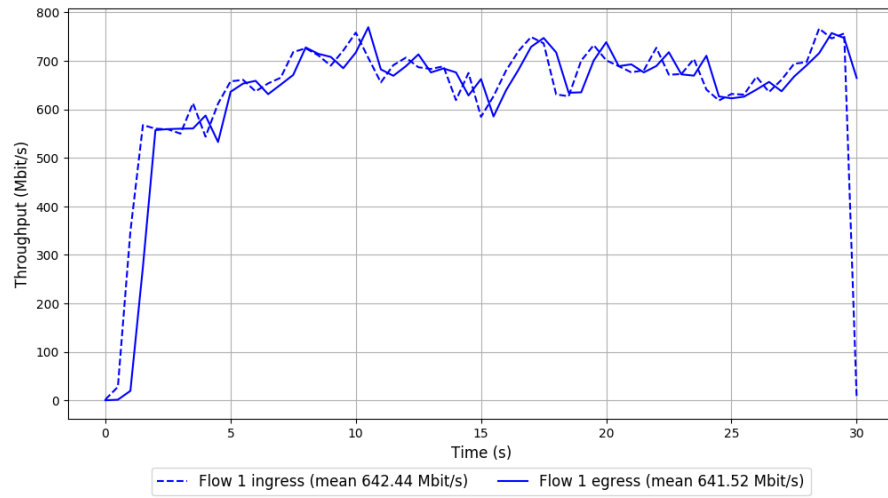


Run 4: Statistics of TCP Cubic

Start at: 2019-01-19 06:53:25  
End at: 2019-01-19 06:53:55  
Local clock offset: -0.058 ms  
Remote clock offset: -0.774 ms

# Below is generated by plot.py at 2019-01-19 08:13:05  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 641.52 Mbit/s  
95th percentile per-packet one-way delay: 110.277 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 641.52 Mbit/s  
95th percentile per-packet one-way delay: 110.277 ms  
Loss rate: 0.56%

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

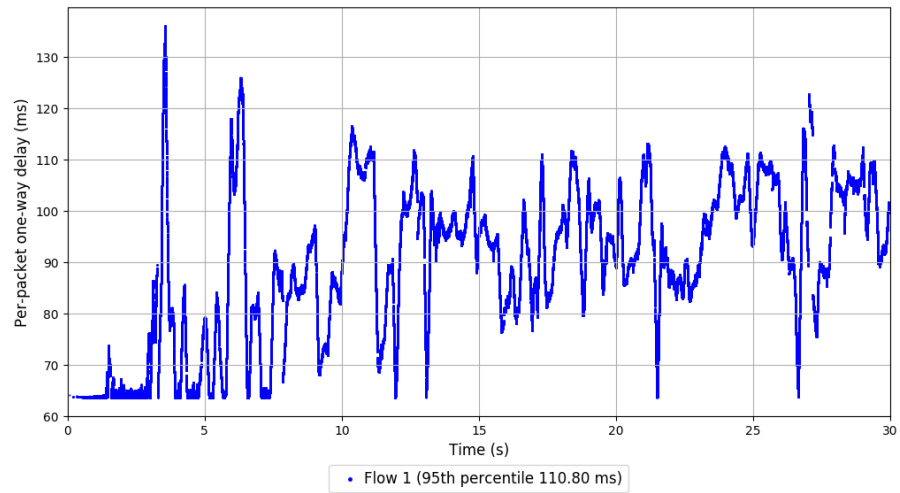
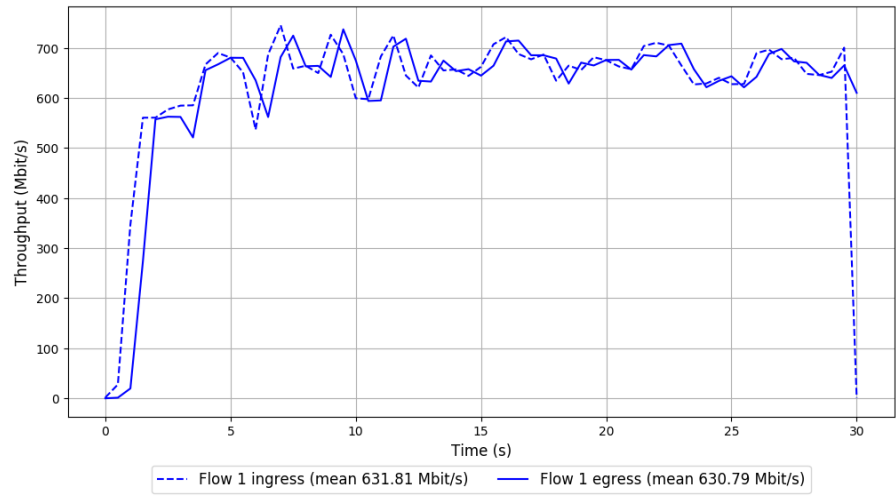


Run 5: Statistics of TCP Cubic

Start at: 2019-01-19 07:24:55  
End at: 2019-01-19 07:25:25  
Local clock offset: -0.042 ms  
Remote clock offset: -0.894 ms

# Below is generated by plot.py at 2019-01-19 08:13:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 630.79 Mbit/s  
95th percentile per-packet one-way delay: 110.802 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 630.79 Mbit/s  
95th percentile per-packet one-way delay: 110.802 ms  
Loss rate: 0.58%

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



Run 1: Statistics of FillP

Start at: 2019-01-19 05:16:06

End at: 2019-01-19 05:16:36

Local clock offset: -0.153 ms

Remote clock offset: 1.011 ms

# Below is generated by plot.py at 2019-01-19 08:21:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 958.89 Mbit/s

95th percentile per-packet one-way delay: 93.551 ms

Loss rate: 0.54%

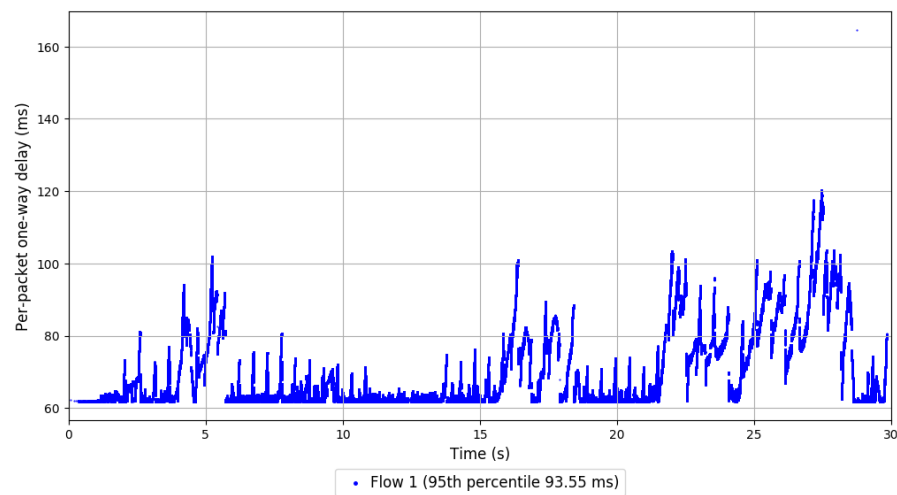
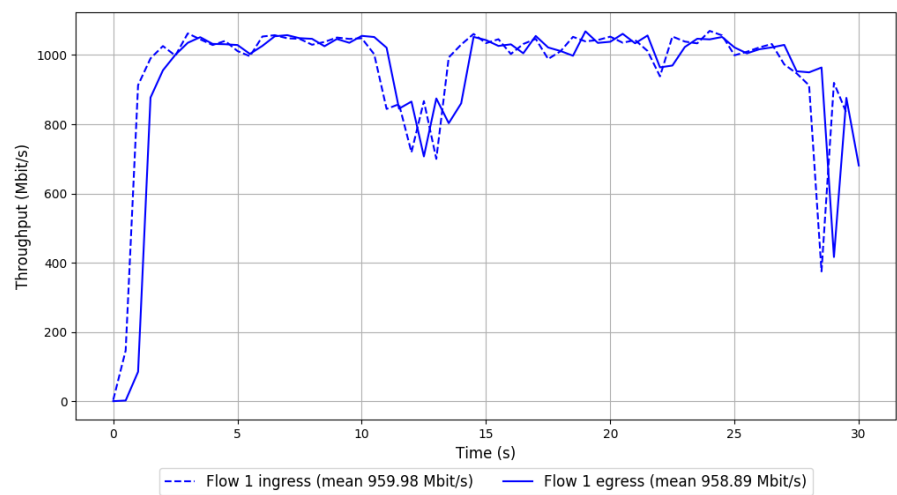
-- Flow 1:

Average throughput: 958.89 Mbit/s

95th percentile per-packet one-way delay: 93.551 ms

Loss rate: 0.54%

Run 1: Report of FillP — Data Link



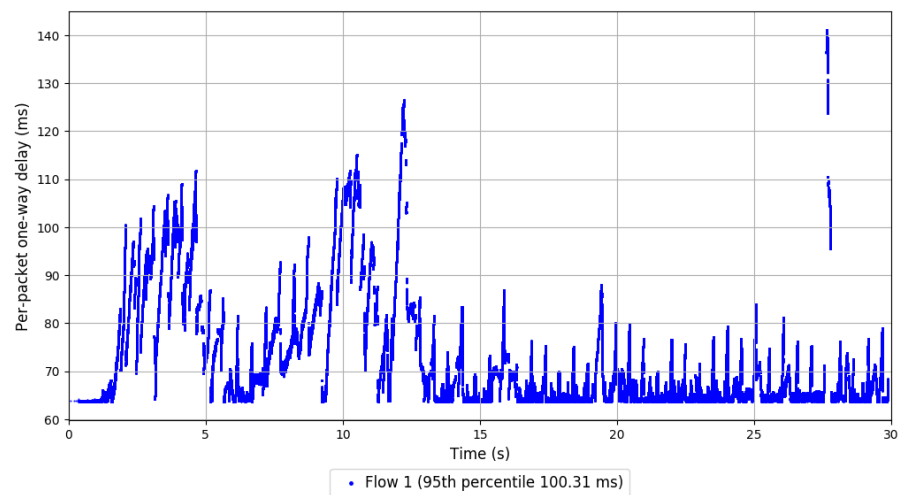
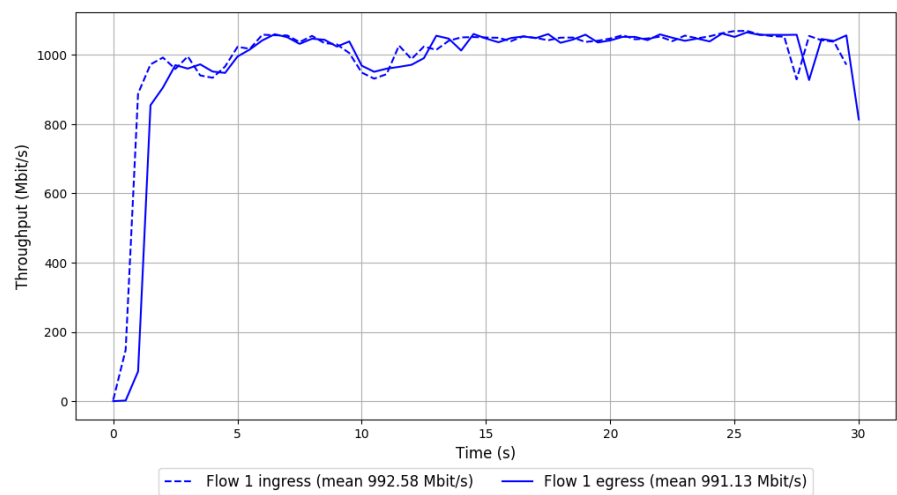


Run 2: Statistics of FillP

Start at: 2019-01-19 05:47:31  
End at: 2019-01-19 05:48:01  
Local clock offset: -0.032 ms  
Remote clock offset: -0.759 ms

# Below is generated by plot.py at 2019-01-19 08:33:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 991.13 Mbit/s  
95th percentile per-packet one-way delay: 100.305 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 991.13 Mbit/s  
95th percentile per-packet one-way delay: 100.305 ms  
Loss rate: 0.57%

Run 2: Report of FillP — Data Link

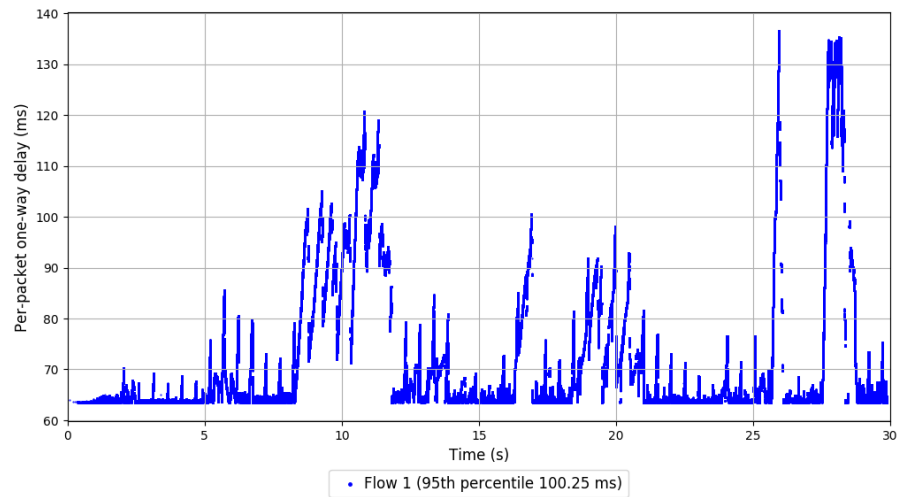
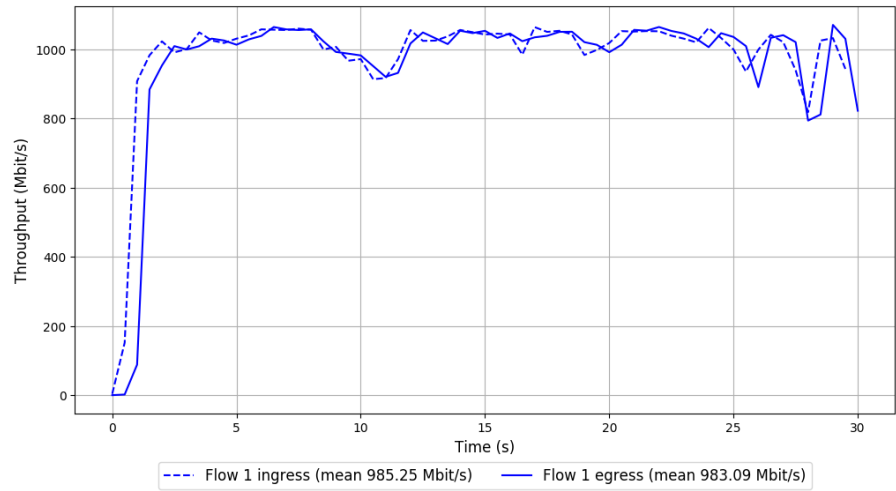


Run 3: Statistics of FillP

Start at: 2019-01-19 06:18:52  
End at: 2019-01-19 06:19:22  
Local clock offset: -0.073 ms  
Remote clock offset: -0.822 ms

# Below is generated by plot.py at 2019-01-19 08:33:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 983.09 Mbit/s  
95th percentile per-packet one-way delay: 100.254 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 983.09 Mbit/s  
95th percentile per-packet one-way delay: 100.254 ms  
Loss rate: 0.64%

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

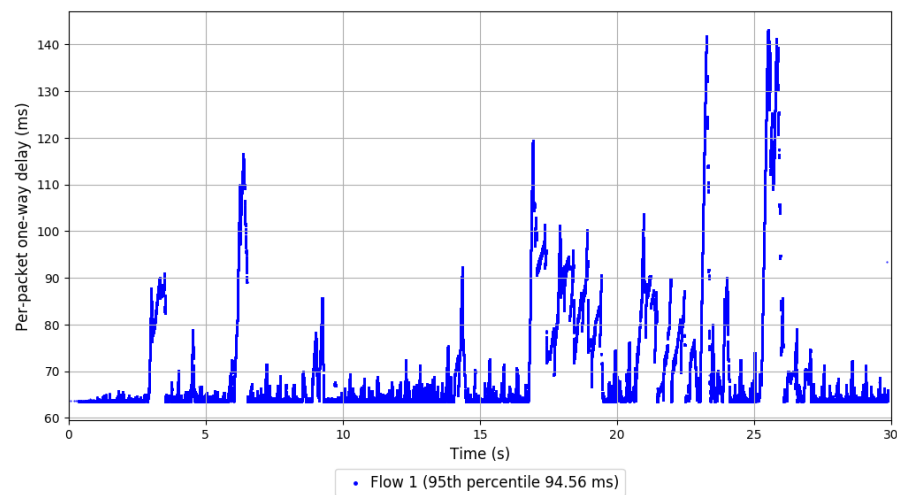
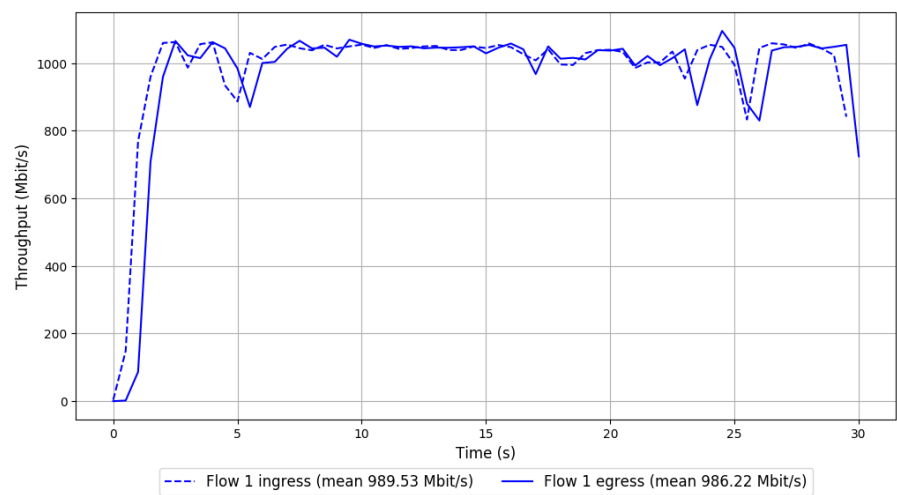


Run 4: Statistics of FillP

Start at: 2019-01-19 06:50:13  
End at: 2019-01-19 06:50:43  
Local clock offset: -0.082 ms  
Remote clock offset: -0.629 ms

# Below is generated by plot.py at 2019-01-19 08:33:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 986.22 Mbit/s  
95th percentile per-packet one-way delay: 94.562 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 986.22 Mbit/s  
95th percentile per-packet one-way delay: 94.562 ms  
Loss rate: 0.73%

Run 4: Report of FillP — Data Link

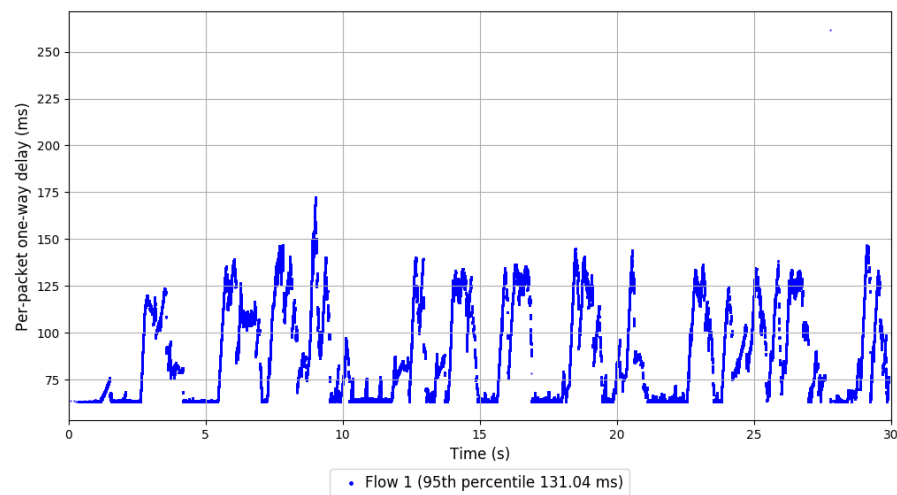
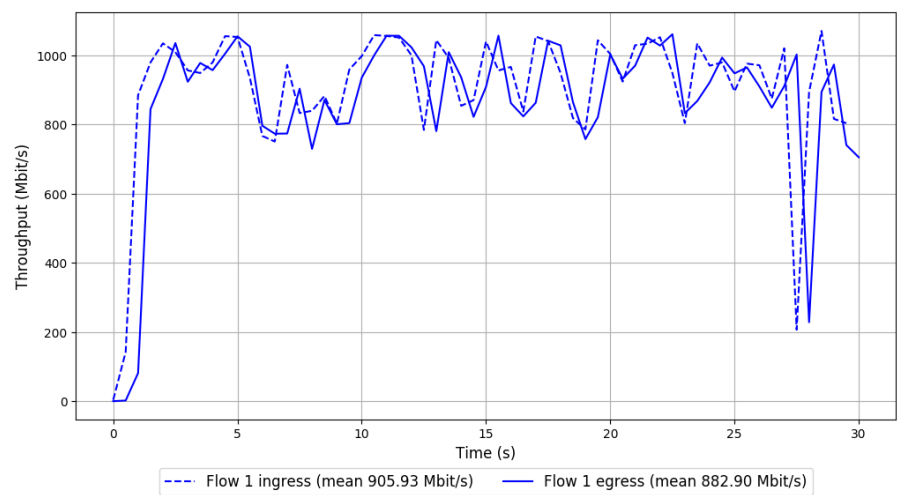


Run 5: Statistics of FillP

Start at: 2019-01-19 07:21:46  
End at: 2019-01-19 07:22:16  
Local clock offset: -0.043 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-01-19 08:33:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 882.90 Mbit/s  
95th percentile per-packet one-way delay: 131.036 ms  
Loss rate: 2.96%  
-- Flow 1:  
Average throughput: 882.90 Mbit/s  
95th percentile per-packet one-way delay: 131.036 ms  
Loss rate: 2.96%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-01-19 05:28:20

End at: 2019-01-19 05:28:50

Local clock offset: -0.156 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-01-19 08:33:14

# Datalink statistics

-- Total of 1 flow:

Average throughput: 968.92 Mbit/s

95th percentile per-packet one-way delay: 87.635 ms

Loss rate: 0.62%

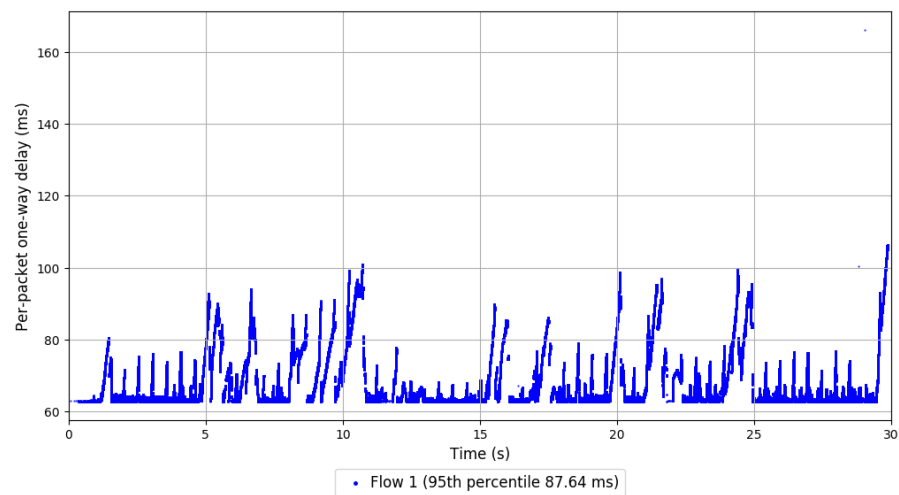
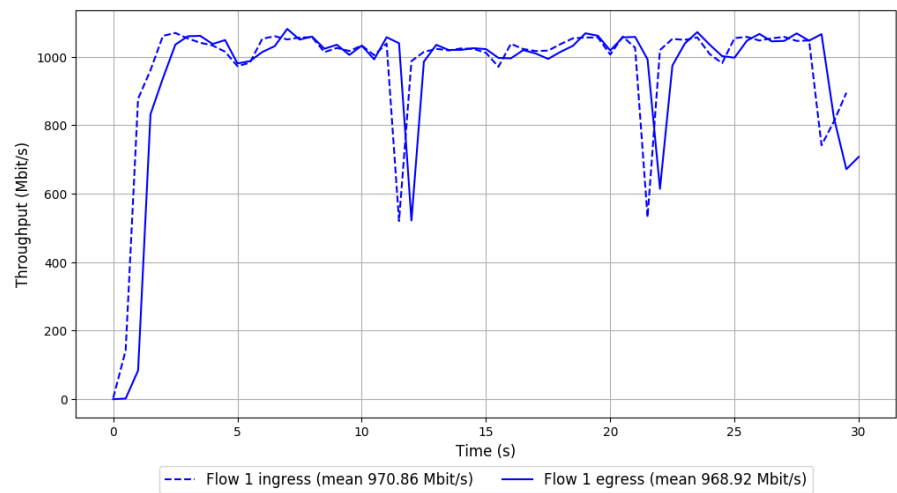
-- Flow 1:

Average throughput: 968.92 Mbit/s

95th percentile per-packet one-way delay: 87.635 ms

Loss rate: 0.62%

Run 1: Report of FillP-Sheep — Data Link

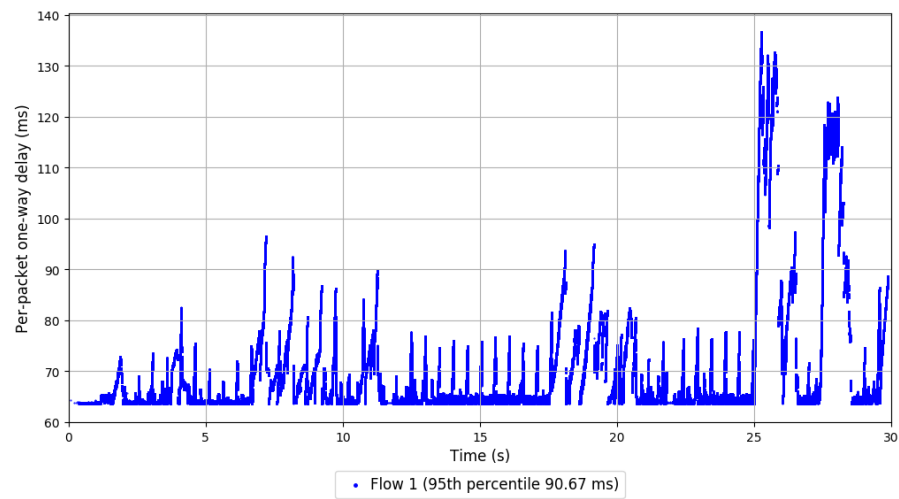
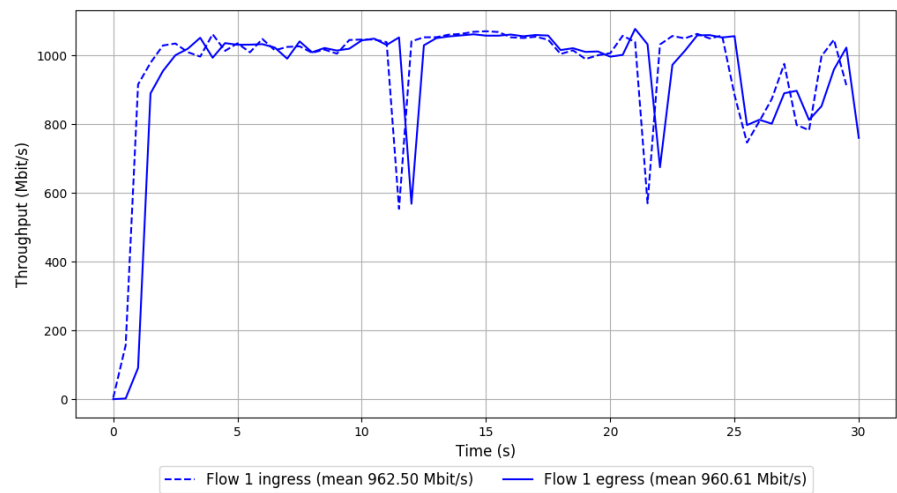


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-19 05:59:39  
End at: 2019-01-19 06:00:09  
Local clock offset: 0.001 ms  
Remote clock offset: -0.782 ms

# Below is generated by plot.py at 2019-01-19 08:33:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 960.61 Mbit/s  
95th percentile per-packet one-way delay: 90.673 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 960.61 Mbit/s  
95th percentile per-packet one-way delay: 90.673 ms  
Loss rate: 0.62%

Run 2: Report of FillP-Sheep — Data Link

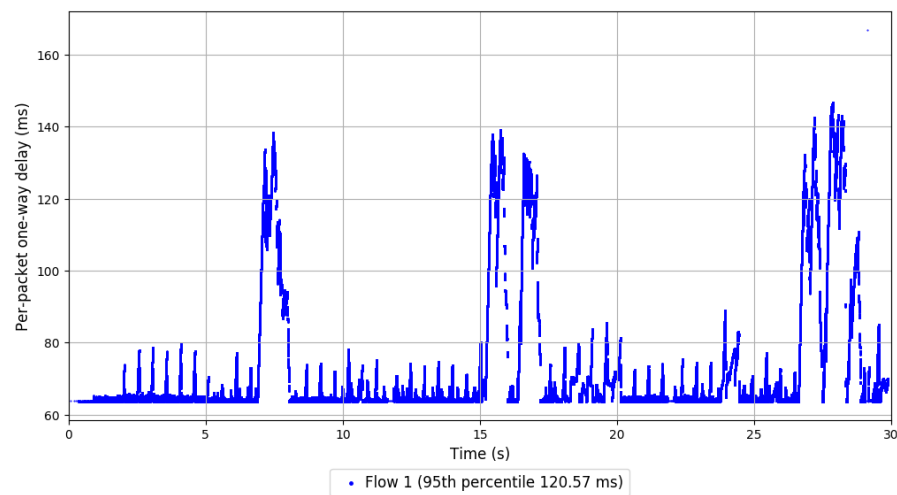
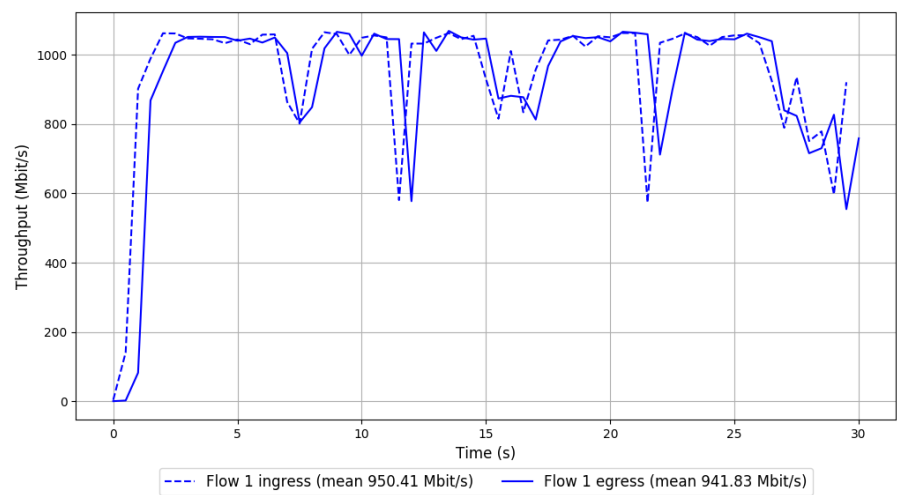


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-19 06:30:56  
End at: 2019-01-19 06:31:26  
Local clock offset: -0.106 ms  
Remote clock offset: -0.639 ms

# Below is generated by plot.py at 2019-01-19 08:33:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 941.83 Mbit/s  
95th percentile per-packet one-way delay: 120.569 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 941.83 Mbit/s  
95th percentile per-packet one-way delay: 120.569 ms  
Loss rate: 1.32%

Run 3: Report of FillP-Sheep — Data Link

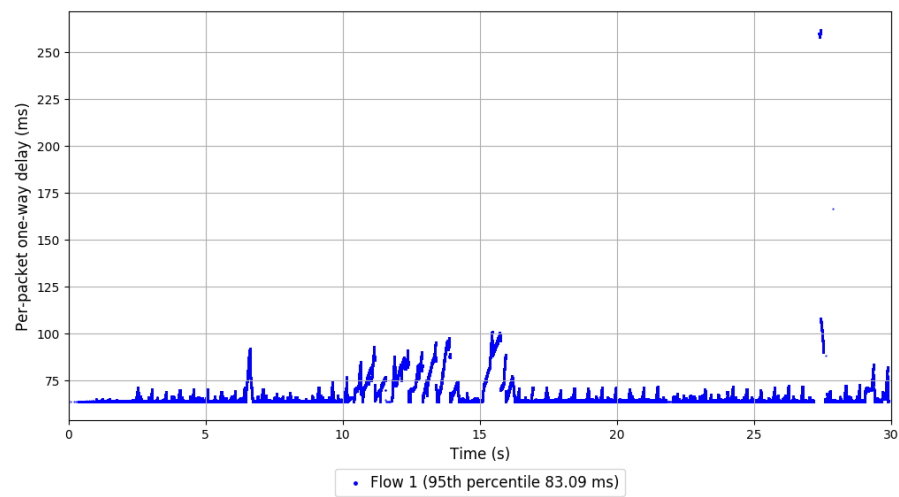
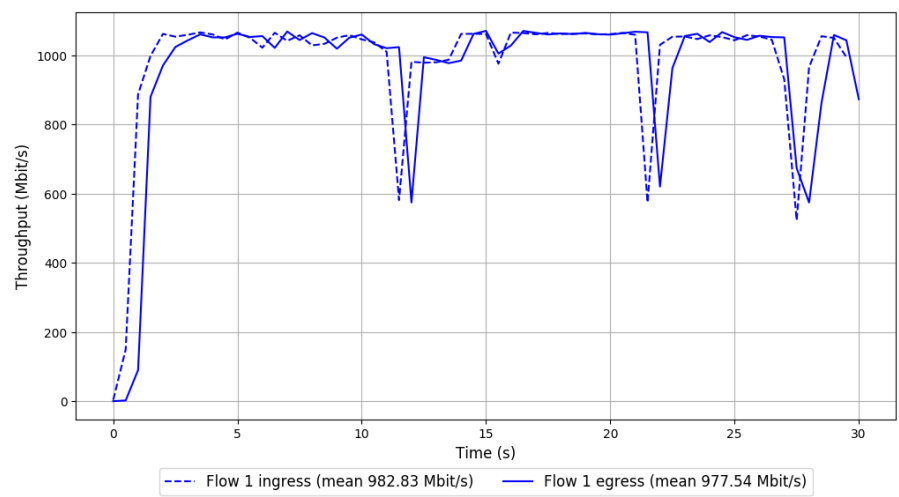


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-19 07:02:18  
End at: 2019-01-19 07:02:48  
Local clock offset: -0.01 ms  
Remote clock offset: -0.833 ms

# Below is generated by plot.py at 2019-01-19 08:44:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 977.54 Mbit/s  
95th percentile per-packet one-way delay: 83.095 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 977.54 Mbit/s  
95th percentile per-packet one-way delay: 83.095 ms  
Loss rate: 0.96%

Run 4: Report of FillP-Sheep — Data Link



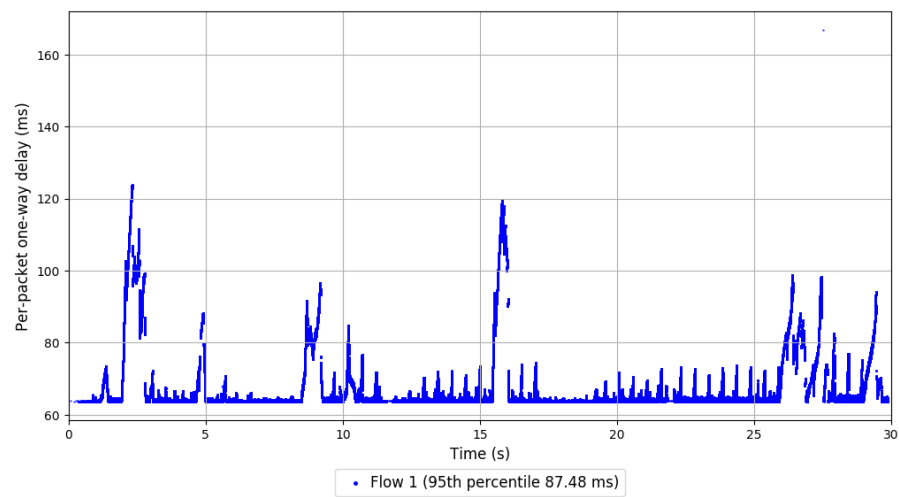
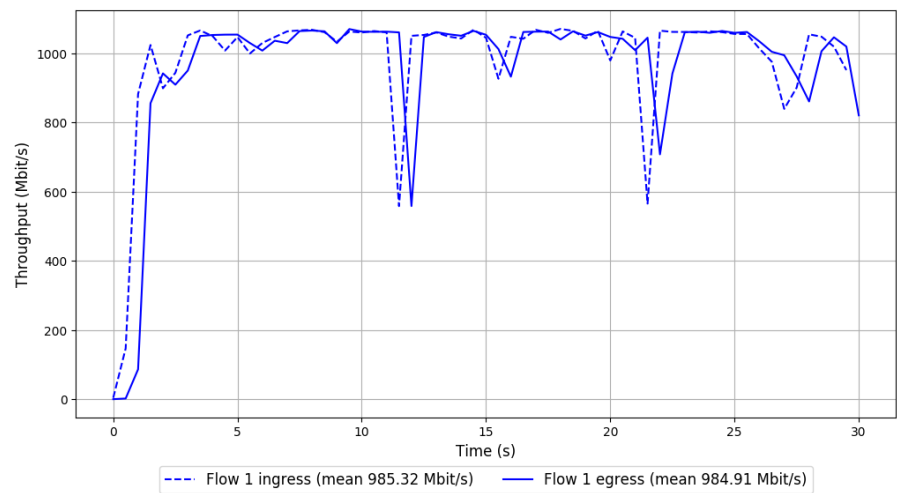


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-19 07:33:49  
End at: 2019-01-19 07:34:19  
Local clock offset: 0.069 ms  
Remote clock offset: -0.982 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 984.91 Mbit/s  
95th percentile per-packet one-way delay: 87.484 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 984.91 Mbit/s  
95th percentile per-packet one-way delay: 87.484 ms  
Loss rate: 0.46%

Run 5: Report of FillP-Sheep — Data Link

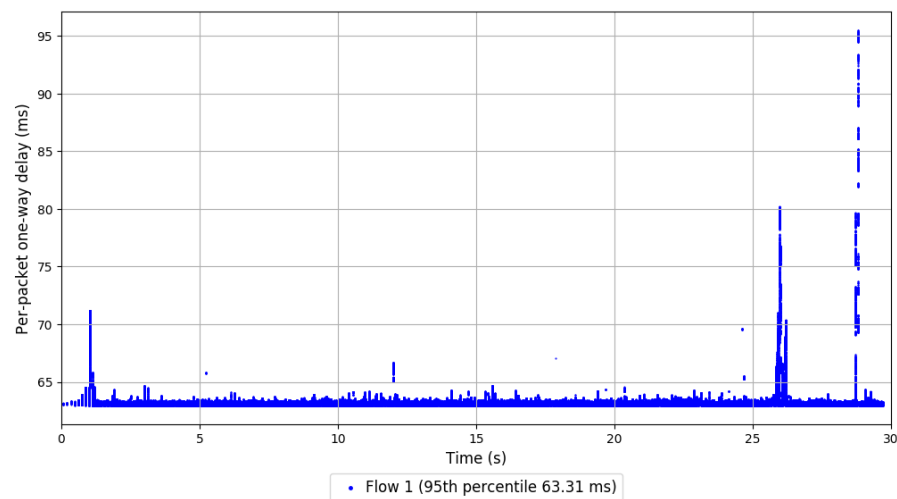
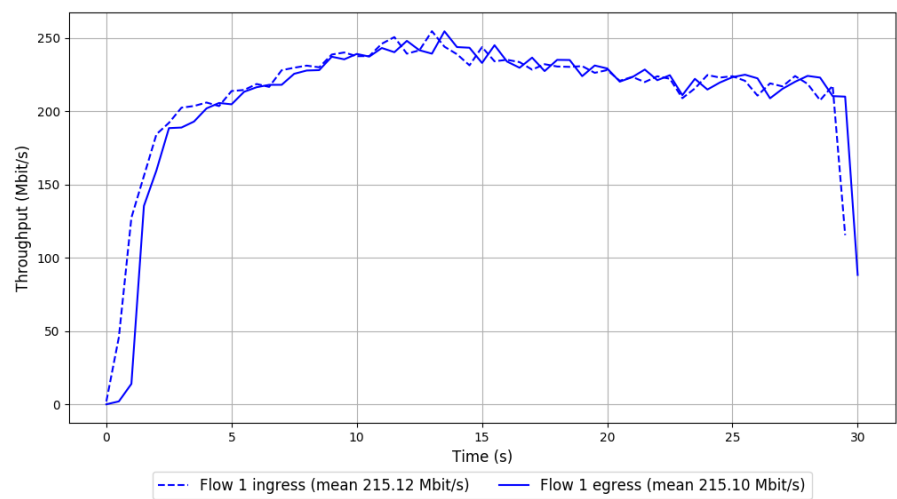


Run 1: Statistics of Indigo

Start at: 2019-01-19 05:10:10  
End at: 2019-01-19 05:10:40  
Local clock offset: -0.124 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 215.10 Mbit/s  
95th percentile per-packet one-way delay: 63.314 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 215.10 Mbit/s  
95th percentile per-packet one-way delay: 63.314 ms  
Loss rate: 0.43%

Run 1: Report of Indigo — Data Link

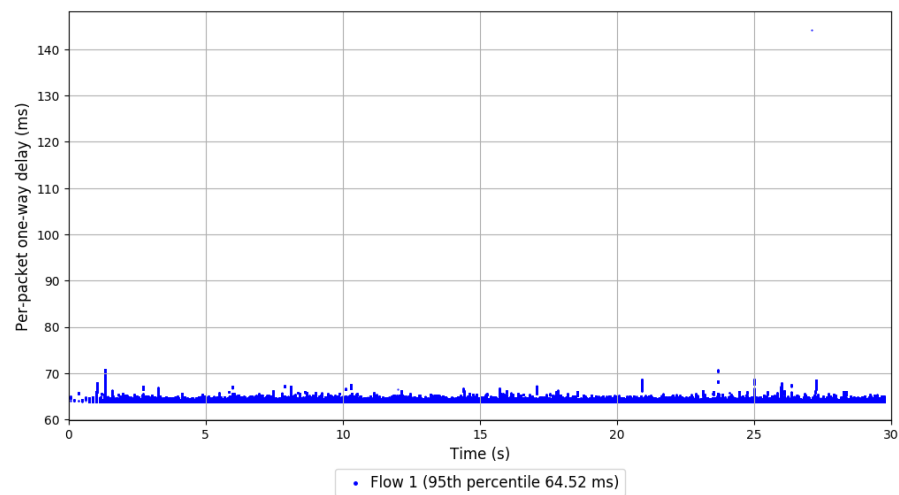
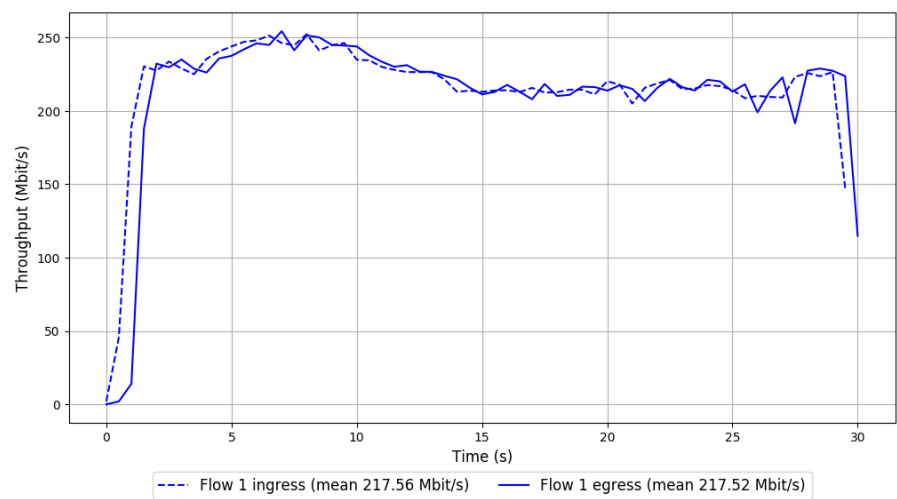


Run 2: Statistics of Indigo

Start at: 2019-01-19 05:41:35  
End at: 2019-01-19 05:42:05  
Local clock offset: -0.031 ms  
Remote clock offset: -0.997 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 217.52 Mbit/s  
95th percentile per-packet one-way delay: 64.523 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 217.52 Mbit/s  
95th percentile per-packet one-way delay: 64.523 ms  
Loss rate: 0.45%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-19 06:12:56

End at: 2019-01-19 06:13:26

Local clock offset: -0.027 ms

Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2019-01-19 08:52:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 223.20 Mbit/s

95th percentile per-packet one-way delay: 63.244 ms

Loss rate: 0.48%

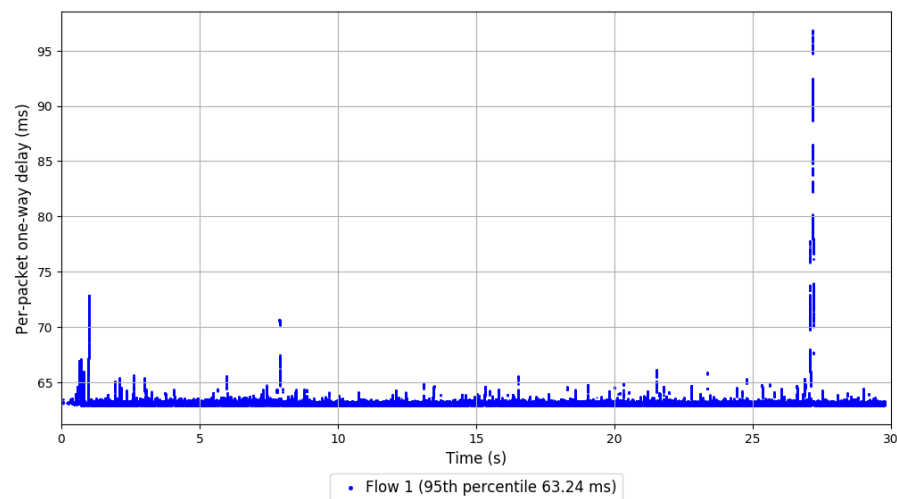
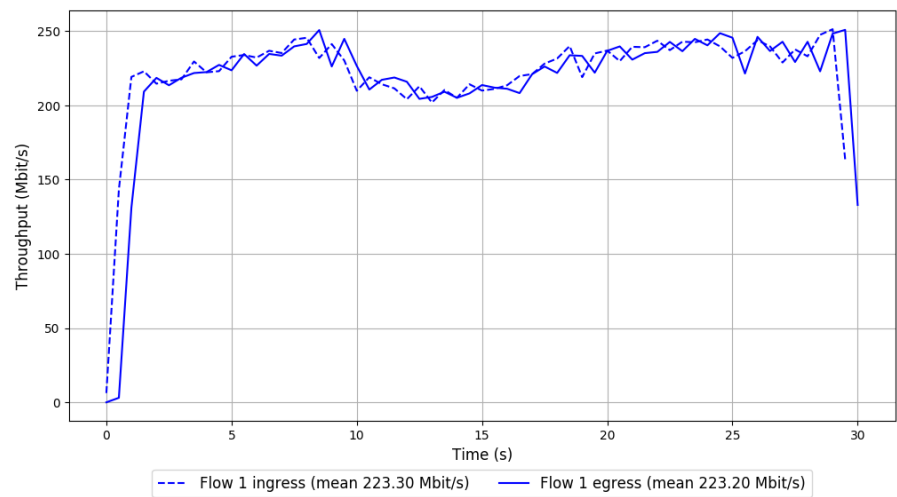
-- Flow 1:

Average throughput: 223.20 Mbit/s

95th percentile per-packet one-way delay: 63.244 ms

Loss rate: 0.48%

Run 3: Report of Indigo — Data Link



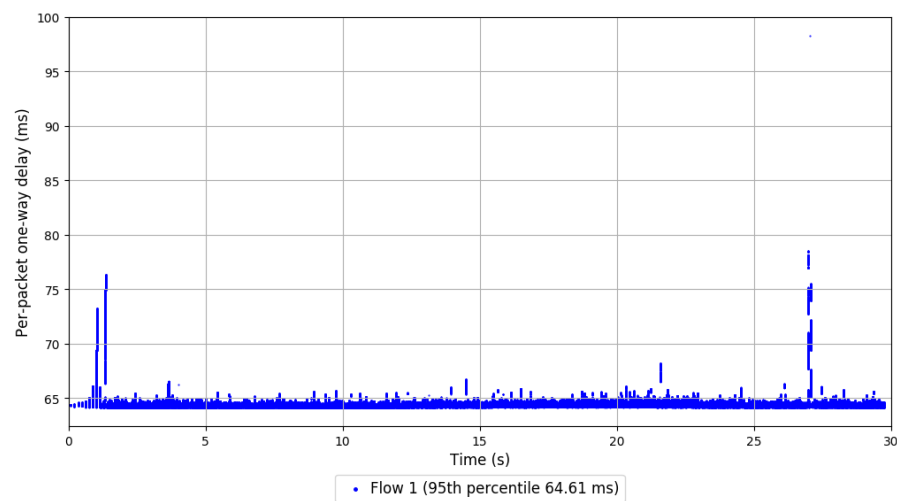
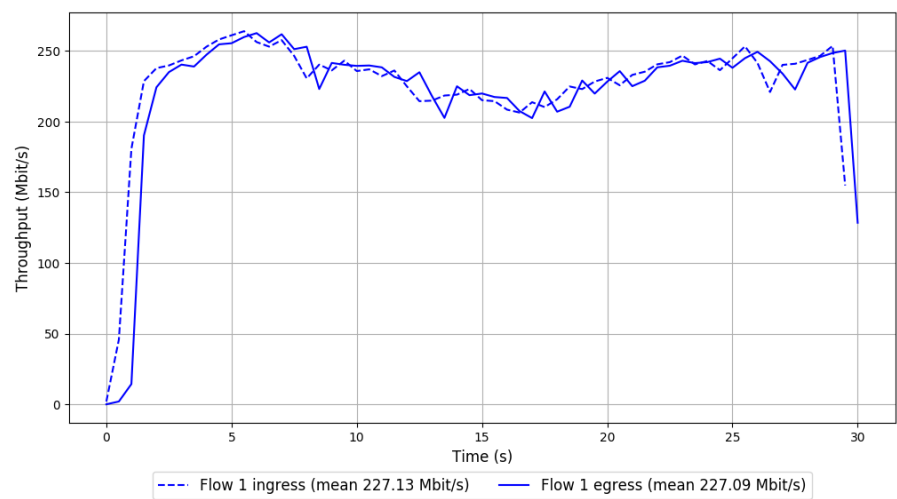


Run 4: Statistics of Indigo

Start at: 2019-01-19 06:44:18  
End at: 2019-01-19 06:44:48  
Local clock offset: 0.053 ms  
Remote clock offset: -0.774 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 227.09 Mbit/s  
95th percentile per-packet one-way delay: 64.615 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 227.09 Mbit/s  
95th percentile per-packet one-way delay: 64.615 ms  
Loss rate: 0.45%

Run 4: Report of Indigo — Data Link

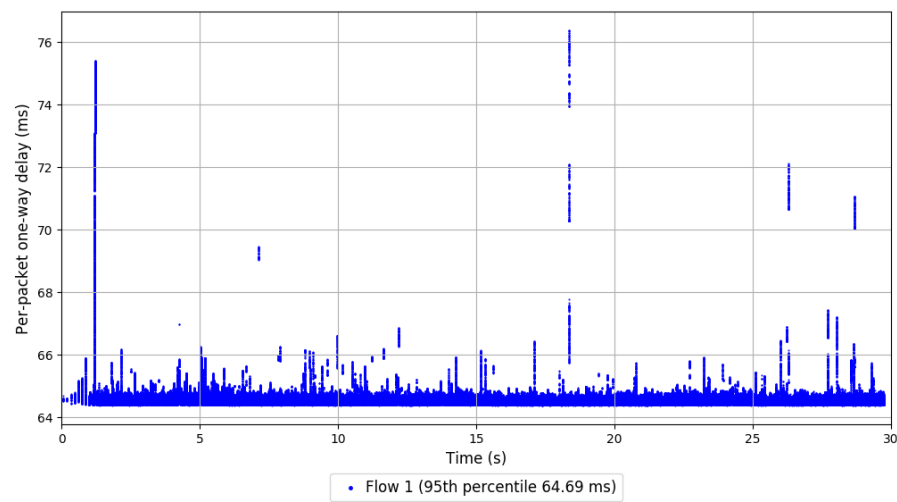
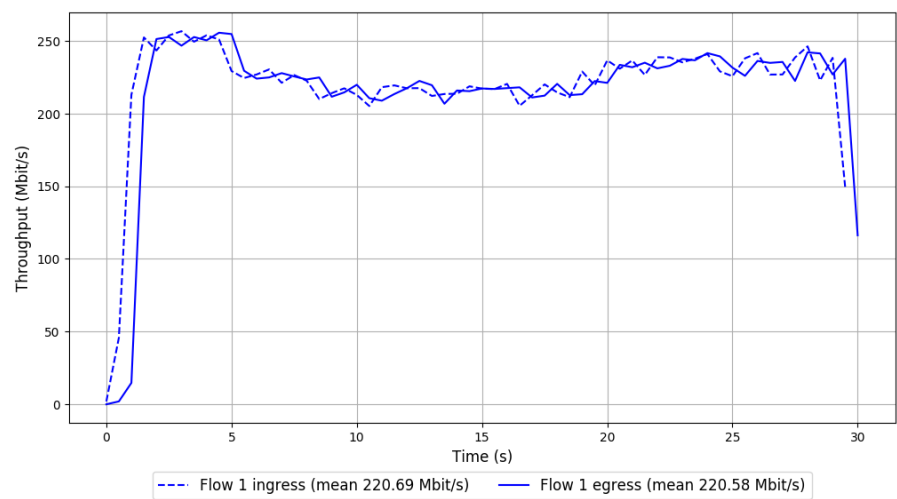


Run 5: Statistics of Indigo

Start at: 2019-01-19 07:15:50  
End at: 2019-01-19 07:16:20  
Local clock offset: -0.024 ms  
Remote clock offset: -1.584 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 220.58 Mbit/s  
95th percentile per-packet one-way delay: 64.686 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 220.58 Mbit/s  
95th percentile per-packet one-way delay: 64.686 ms  
Loss rate: 0.47%

Run 5: Report of Indigo — Data Link

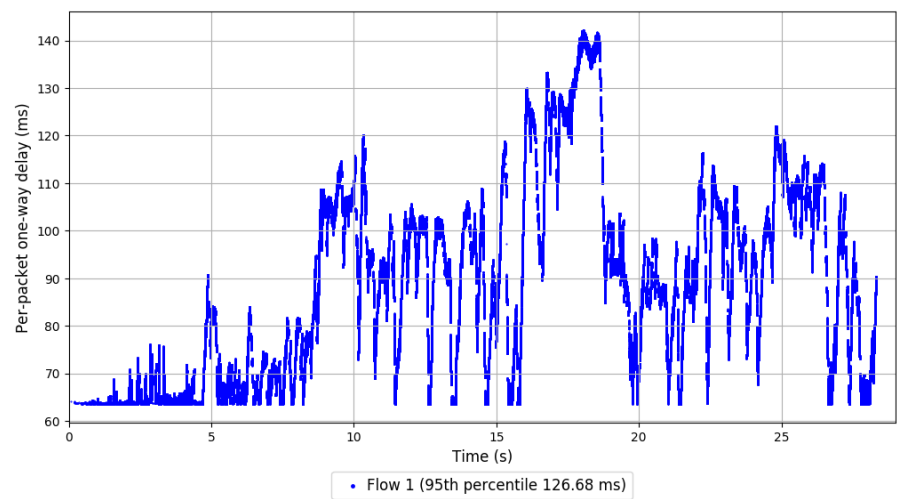
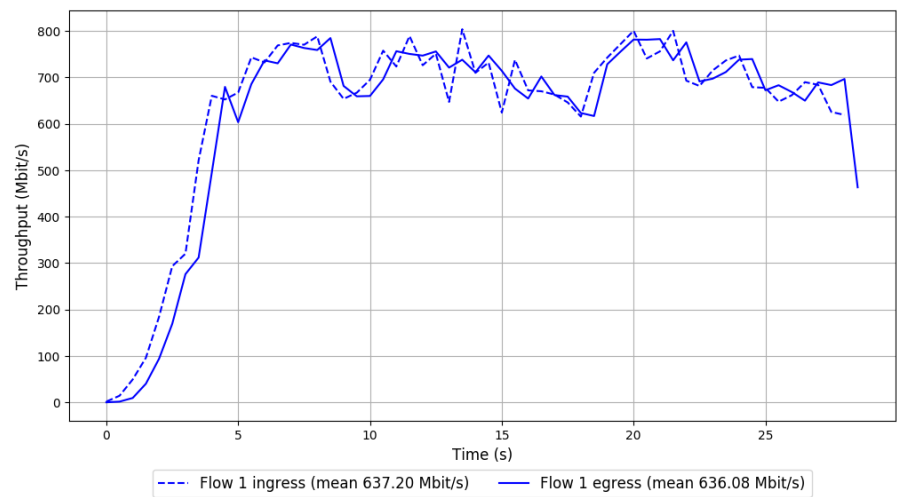


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-19 05:25:06  
End at: 2019-01-19 05:25:36  
Local clock offset: -0.124 ms  
Remote clock offset: -0.761 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 636.08 Mbit/s  
95th percentile per-packet one-way delay: 126.681 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 636.08 Mbit/s  
95th percentile per-packet one-way delay: 126.681 ms  
Loss rate: 0.62%

Run 1: Report of Indigo-MusesC3 — Data Link

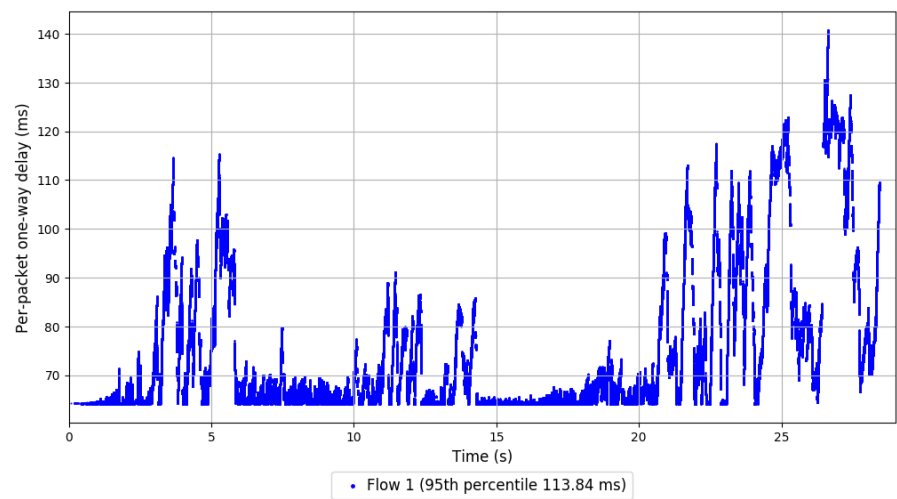
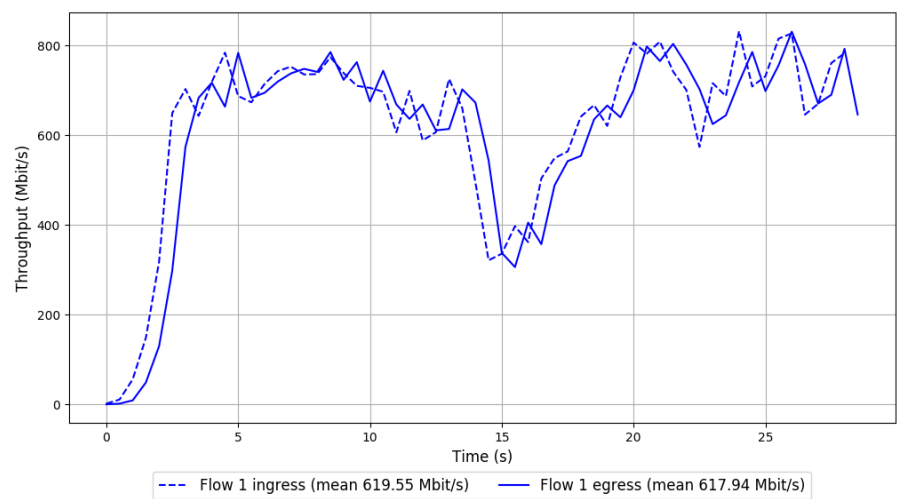


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-19 05:56:24  
End at: 2019-01-19 05:56:54  
Local clock offset: -0.016 ms  
Remote clock offset: -0.848 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 617.94 Mbit/s  
95th percentile per-packet one-way delay: 113.840 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 617.94 Mbit/s  
95th percentile per-packet one-way delay: 113.840 ms  
Loss rate: 0.70%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:27:42

End at: 2019-01-19 06:28:12

Local clock offset: -0.124 ms

Remote clock offset: -0.76 ms

# Below is generated by plot.py at 2019-01-19 08:52:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 648.68 Mbit/s

95th percentile per-packet one-way delay: 91.919 ms

Loss rate: 0.49%

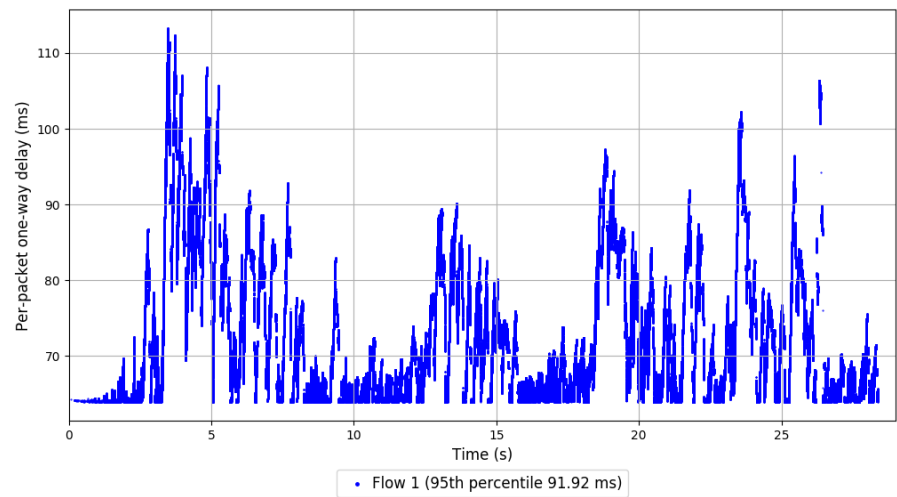
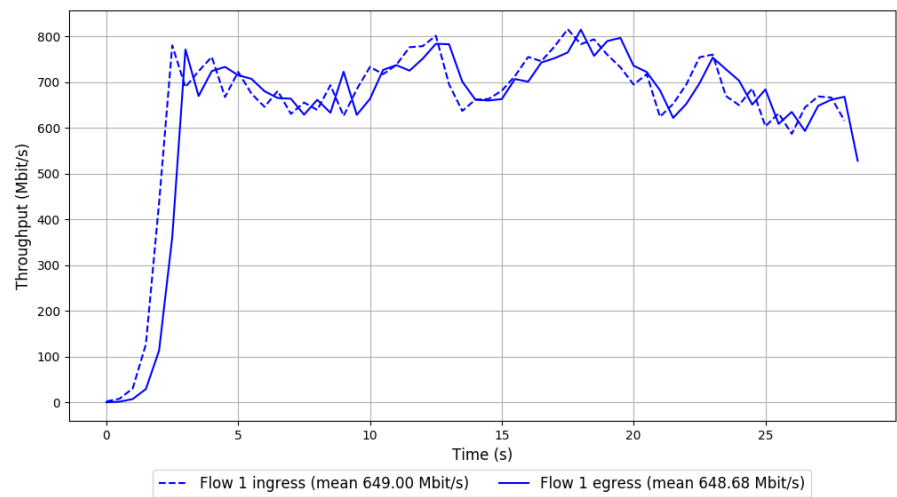
-- Flow 1:

Average throughput: 648.68 Mbit/s

95th percentile per-packet one-way delay: 91.919 ms

Loss rate: 0.49%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-19 06:59:02

End at: 2019-01-19 06:59:32

Local clock offset: -0.069 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-01-19 08:52:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 661.13 Mbit/s

95th percentile per-packet one-way delay: 90.035 ms

Loss rate: 0.53%

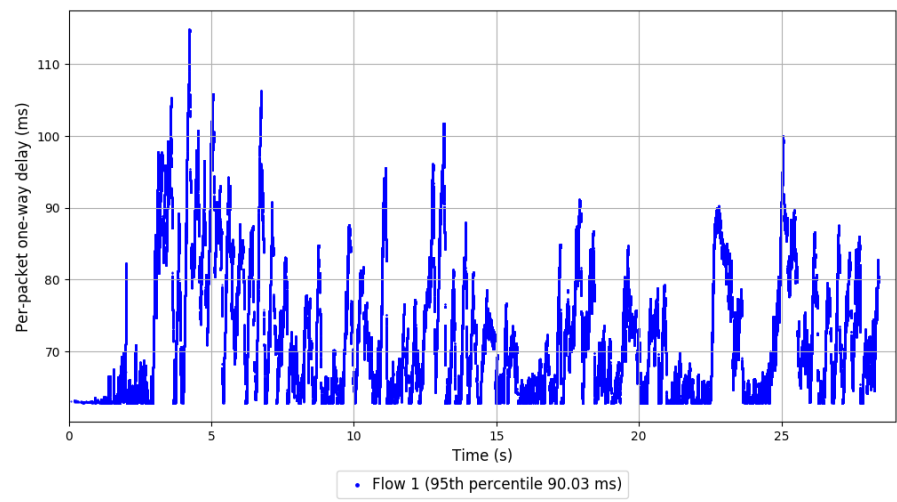
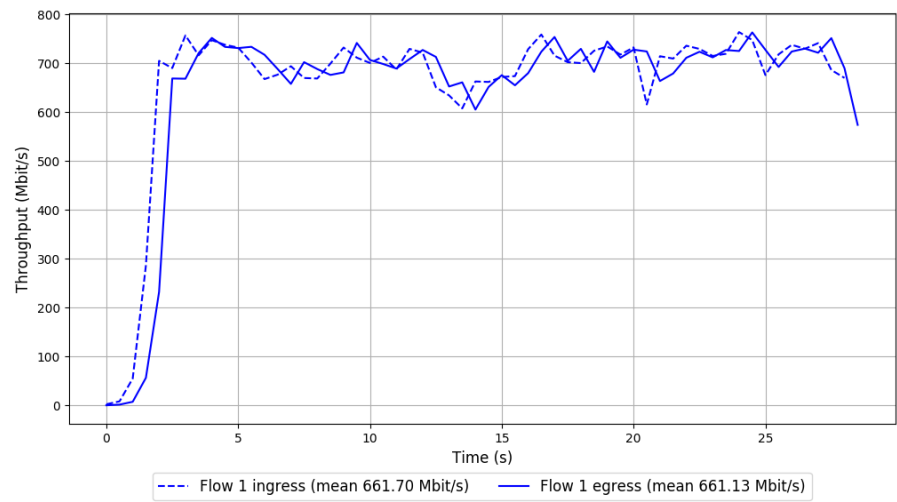
-- Flow 1:

Average throughput: 661.13 Mbit/s

95th percentile per-packet one-way delay: 90.035 ms

Loss rate: 0.53%

Run 4: Report of Indigo-MusesC3 — Data Link

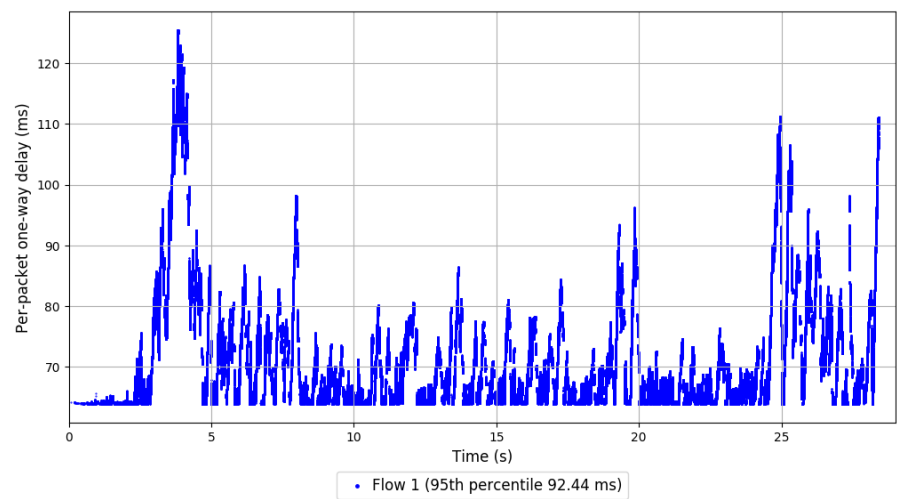
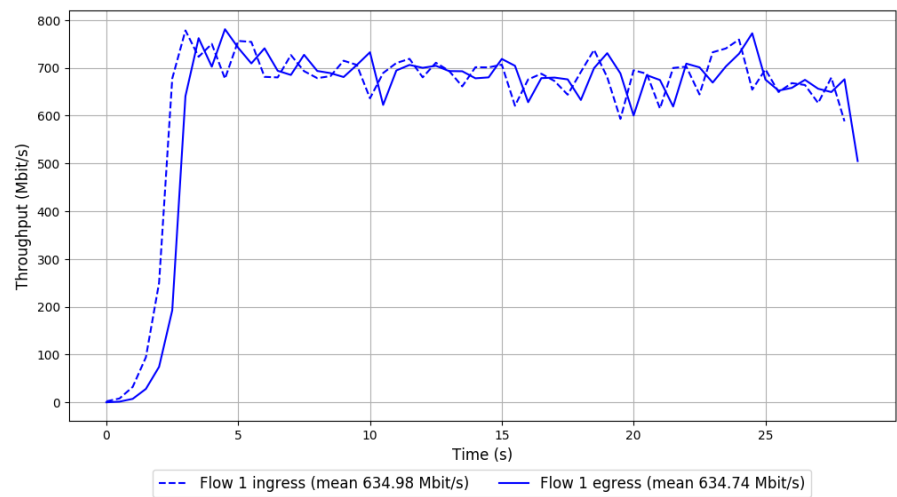


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-19 07:30:35  
End at: 2019-01-19 07:31:05  
Local clock offset: -0.05 ms  
Remote clock offset: -0.913 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 634.74 Mbit/s  
95th percentile per-packet one-way delay: 92.444 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 634.74 Mbit/s  
95th percentile per-packet one-way delay: 92.444 ms  
Loss rate: 0.48%

Run 5: Report of Indigo-MusesC3 — Data Link

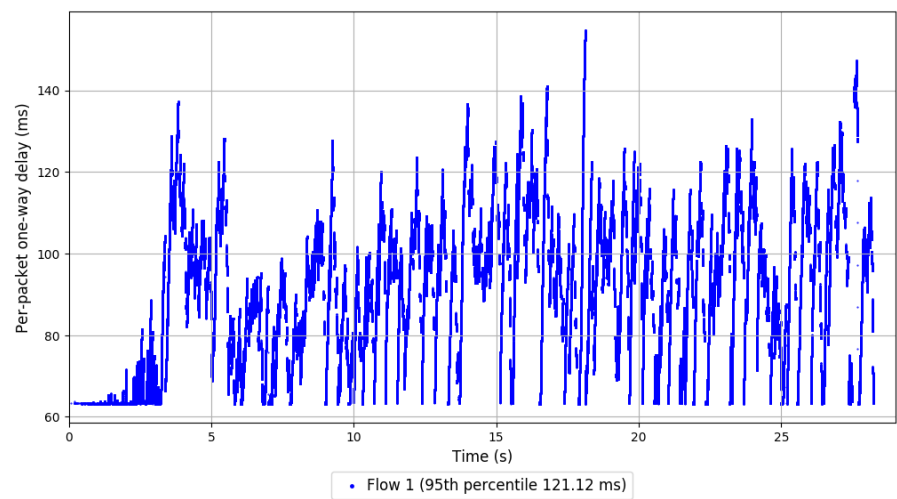
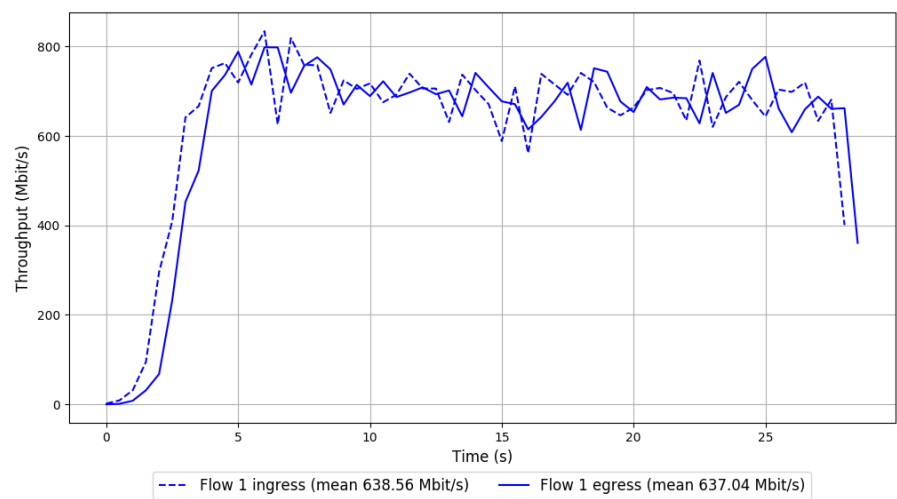


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-19 05:11:38  
End at: 2019-01-19 05:12:08  
Local clock offset: -0.122 ms  
Remote clock offset: -0.439 ms

# Below is generated by plot.py at 2019-01-19 08:52:32  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 637.04 Mbit/s  
95th percentile per-packet one-way delay: 121.118 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 637.04 Mbit/s  
95th percentile per-packet one-way delay: 121.118 ms  
Loss rate: 0.64%

Run 1: Report of Indigo-MusesC5 — Data Link



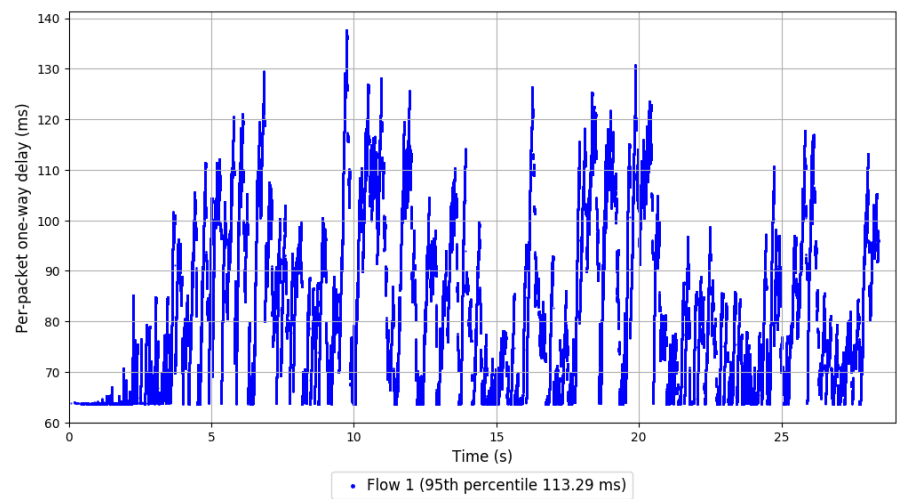
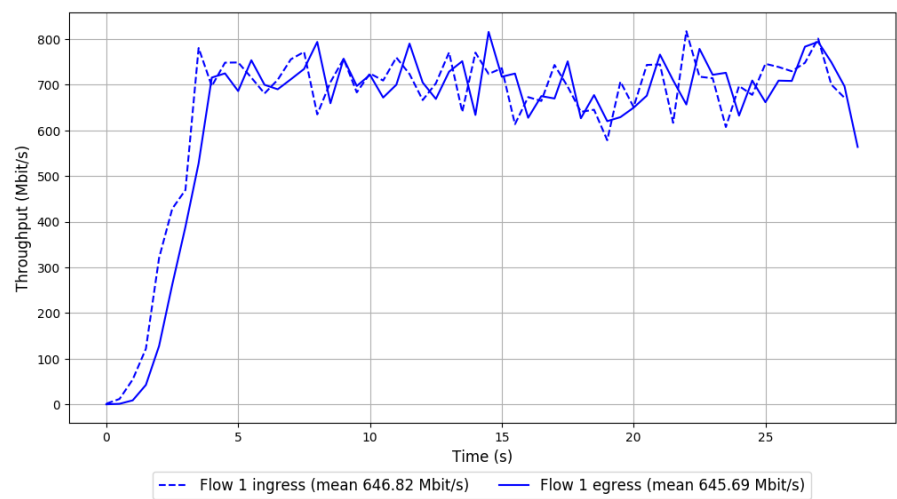


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-19 05:43:03  
End at: 2019-01-19 05:43:33  
Local clock offset: -0.058 ms  
Remote clock offset: -0.899 ms

# Below is generated by plot.py at 2019-01-19 08:55:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 645.69 Mbit/s  
95th percentile per-packet one-way delay: 113.291 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 645.69 Mbit/s  
95th percentile per-packet one-way delay: 113.291 ms  
Loss rate: 0.62%

Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:14:25

End at: 2019-01-19 06:14:55

Local clock offset: -0.067 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2019-01-19 08:56:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 629.47 Mbit/s

95th percentile per-packet one-way delay: 123.505 ms

Loss rate: 0.68%

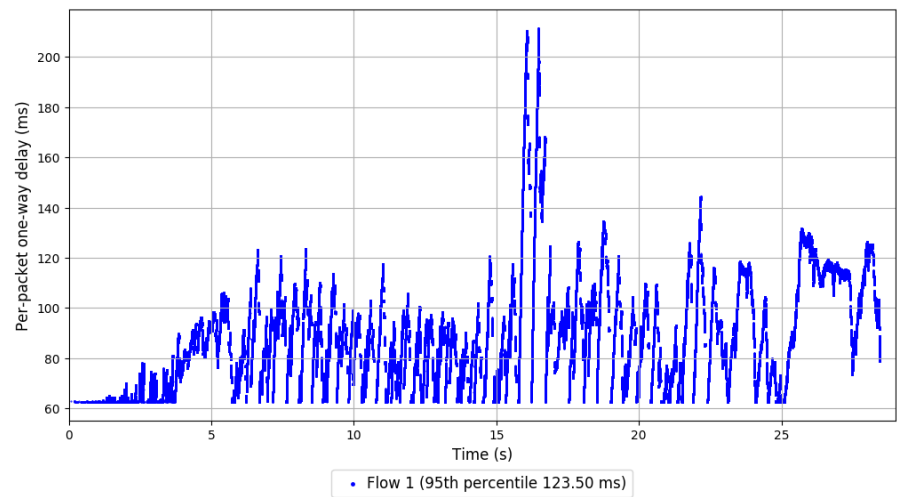
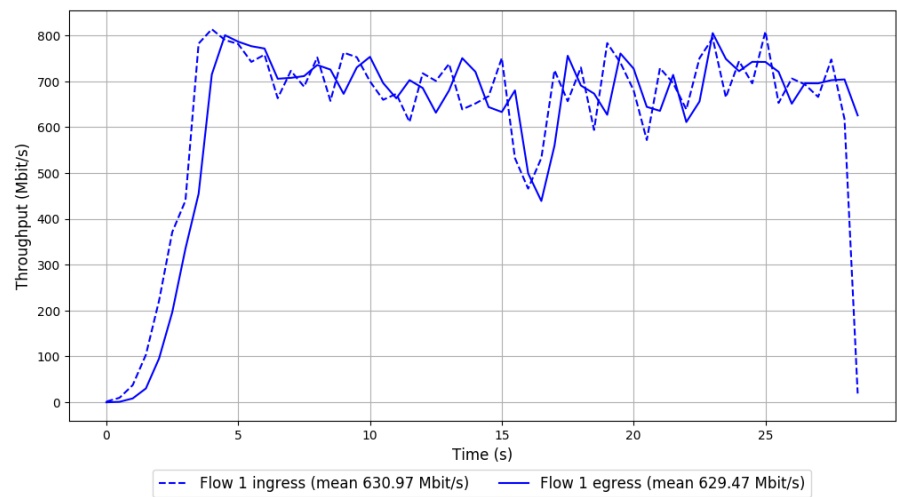
-- Flow 1:

Average throughput: 629.47 Mbit/s

95th percentile per-packet one-way delay: 123.505 ms

Loss rate: 0.68%

Run 3: Report of Indigo-MusesC5 — Data Link

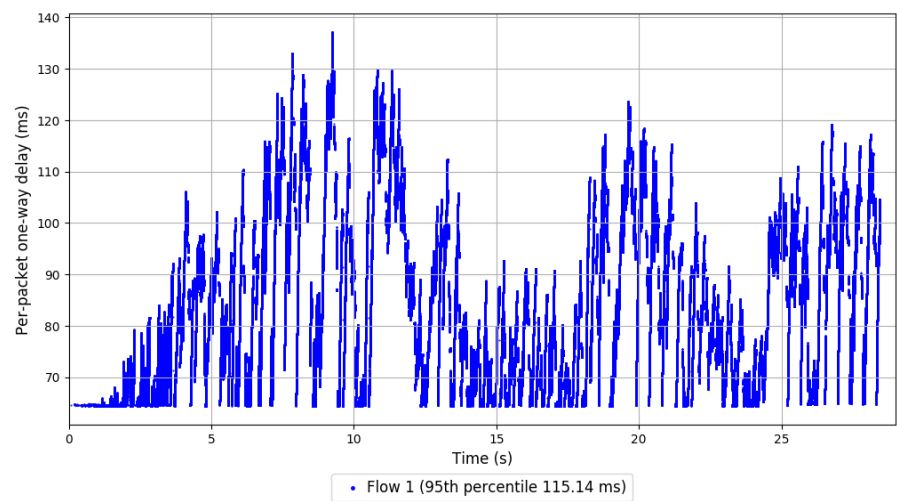
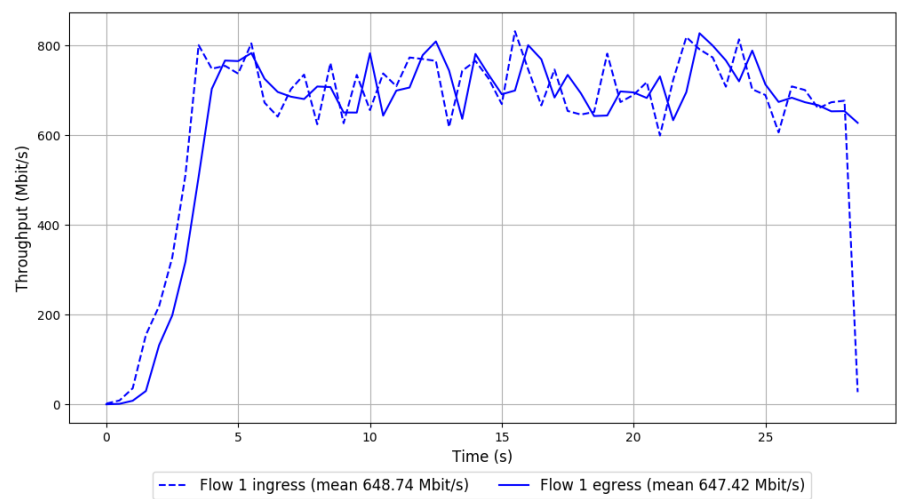


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-19 06:45:47  
End at: 2019-01-19 06:46:17  
Local clock offset: -0.033 ms  
Remote clock offset: -1.451 ms

# Below is generated by plot.py at 2019-01-19 09:02:27  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 647.42 Mbit/s  
95th percentile per-packet one-way delay: 115.142 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 647.42 Mbit/s  
95th percentile per-packet one-way delay: 115.142 ms  
Loss rate: 0.65%

Run 4: Report of Indigo-MusesC5 — Data Link

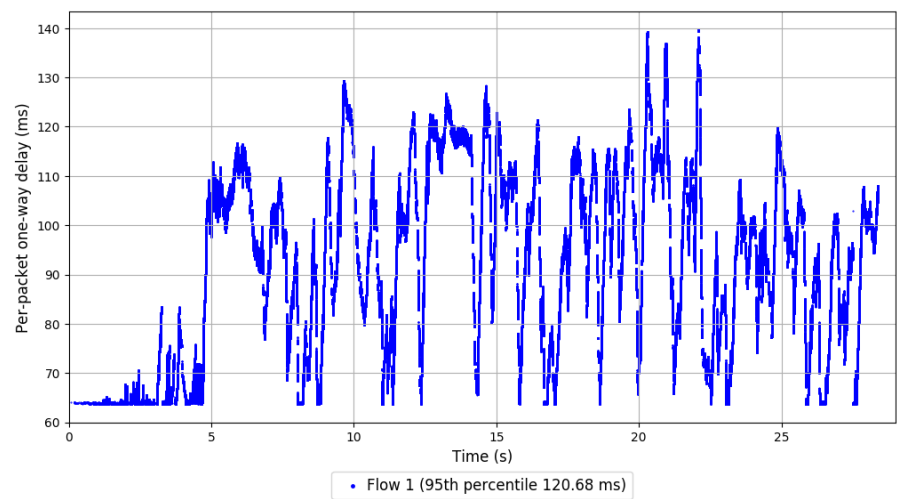
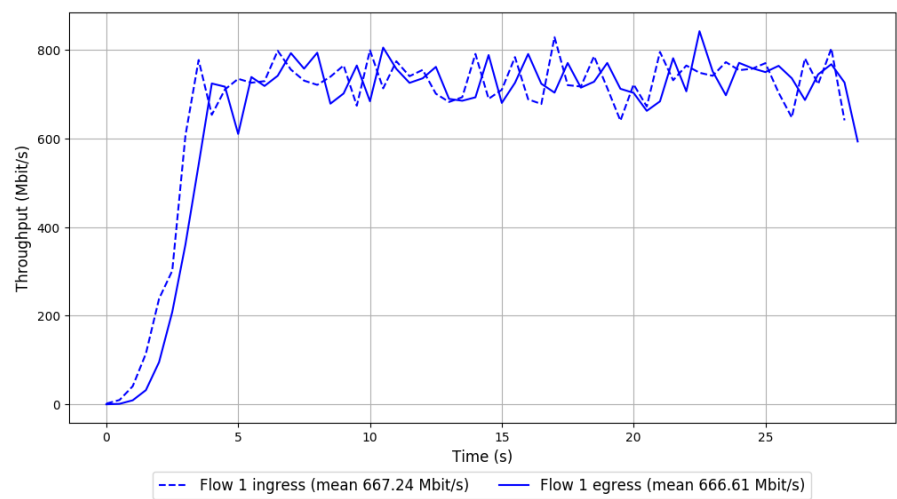


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-19 07:17:18  
End at: 2019-01-19 07:17:48  
Local clock offset: -0.025 ms  
Remote clock offset: -0.884 ms

# Below is generated by plot.py at 2019-01-19 09:03:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 666.61 Mbit/s  
95th percentile per-packet one-way delay: 120.679 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 666.61 Mbit/s  
95th percentile per-packet one-way delay: 120.679 ms  
Loss rate: 0.54%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:20:58

End at: 2019-01-19 05:21:28

Local clock offset: -0.118 ms

Remote clock offset: -0.921 ms

# Below is generated by plot.py at 2019-01-19 09:03:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 458.56 Mbit/s

95th percentile per-packet one-way delay: 76.950 ms

Loss rate: 0.37%

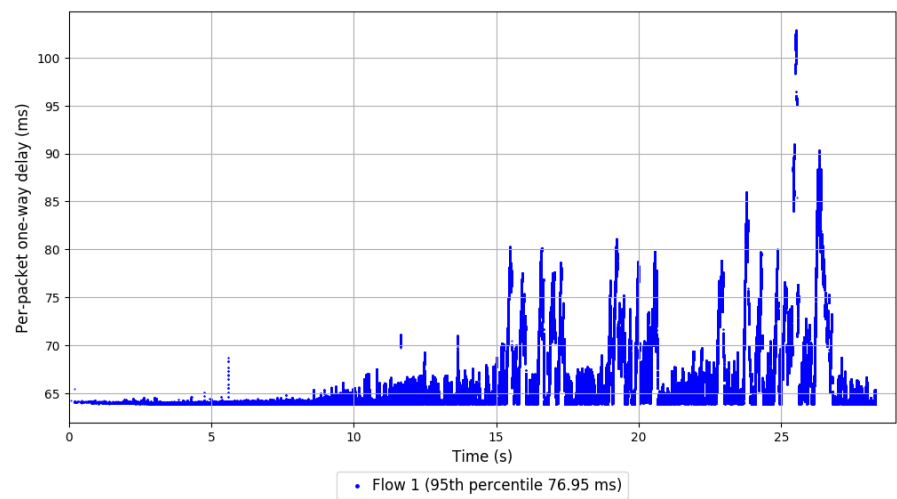
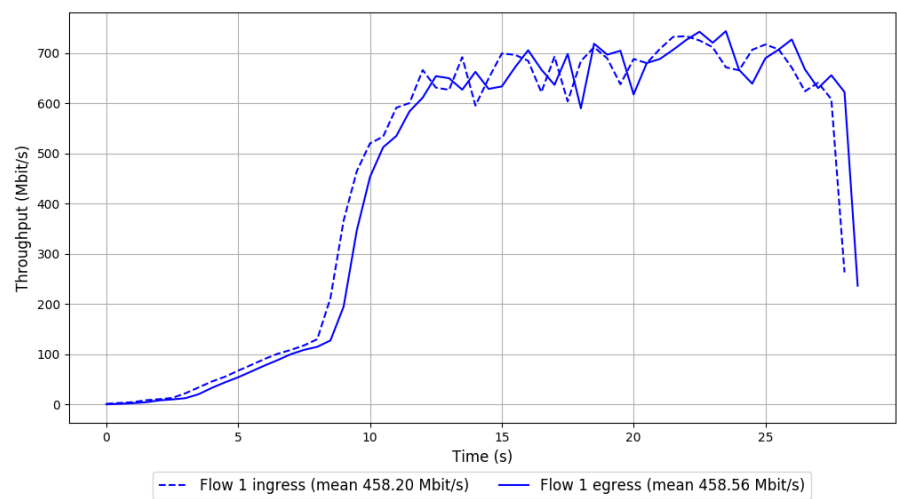
-- Flow 1:

Average throughput: 458.56 Mbit/s

95th percentile per-packet one-way delay: 76.950 ms

Loss rate: 0.37%

Run 1: Report of Indigo-MusesD — Data Link

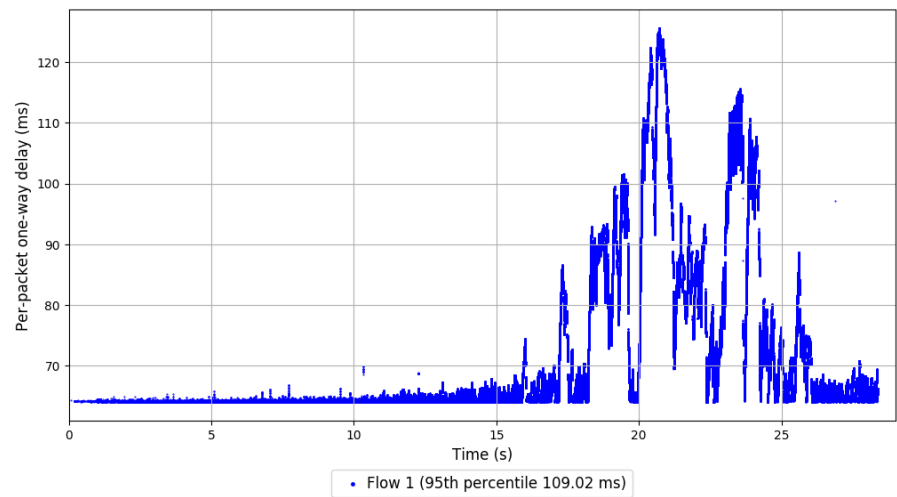
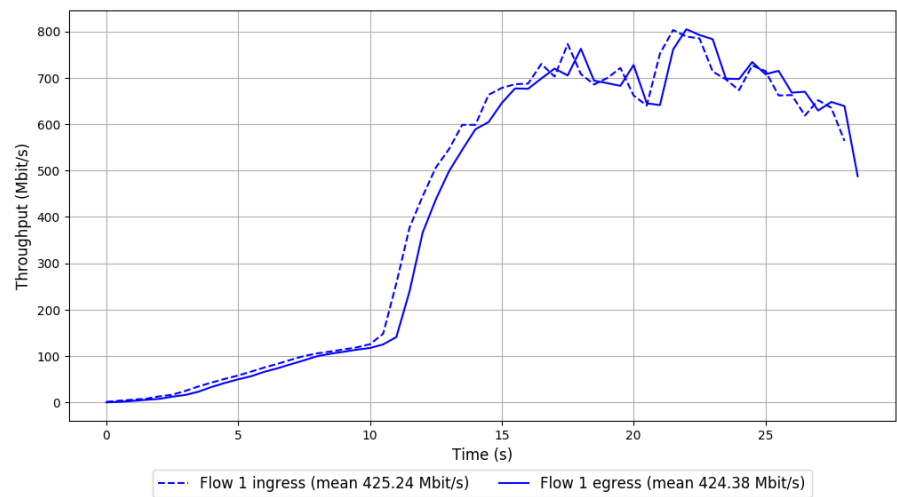


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-19 05:52:18  
End at: 2019-01-19 05:52:48  
Local clock offset: -0.033 ms  
Remote clock offset: -0.829 ms

# Below is generated by plot.py at 2019-01-19 09:03:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 424.38 Mbit/s  
95th percentile per-packet one-way delay: 109.015 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 424.38 Mbit/s  
95th percentile per-packet one-way delay: 109.015 ms  
Loss rate: 0.65%

Run 2: Report of Indigo-MusesD — Data Link

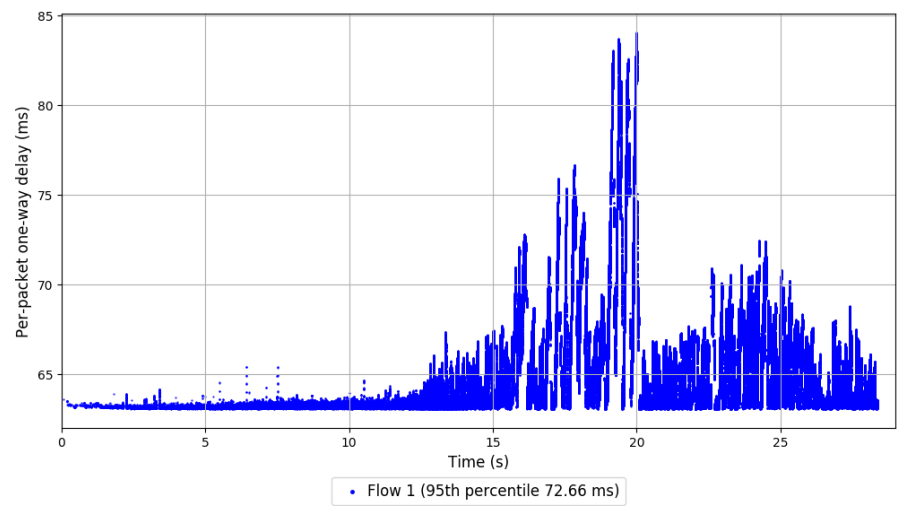
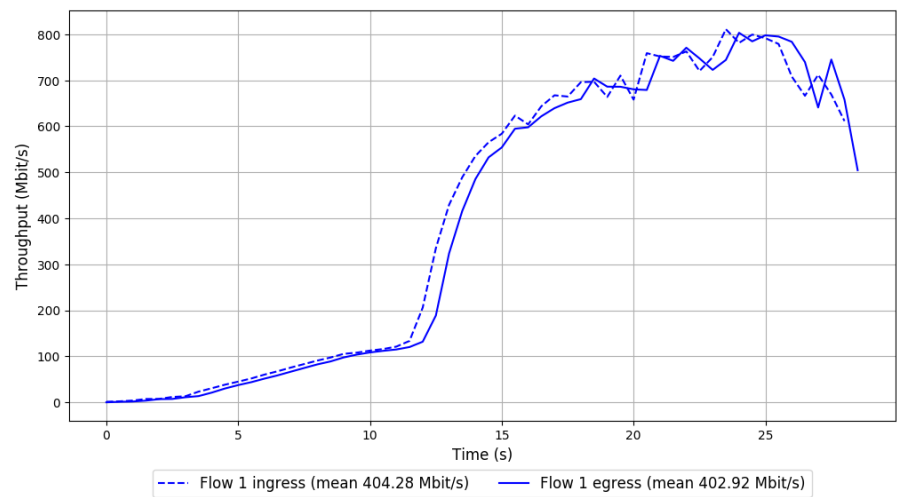


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:23:40  
End at: 2019-01-19 06:24:10  
Local clock offset: -0.082 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-01-19 09:03:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 402.92 Mbit/s  
95th percentile per-packet one-way delay: 72.657 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 402.92 Mbit/s  
95th percentile per-packet one-way delay: 72.657 ms  
Loss rate: 0.79%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-19 06:55:04

End at: 2019-01-19 06:55:34

Local clock offset: -0.052 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-01-19 09:03:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 247.65 Mbit/s

95th percentile per-packet one-way delay: 77.786 ms

Loss rate: 1.53%

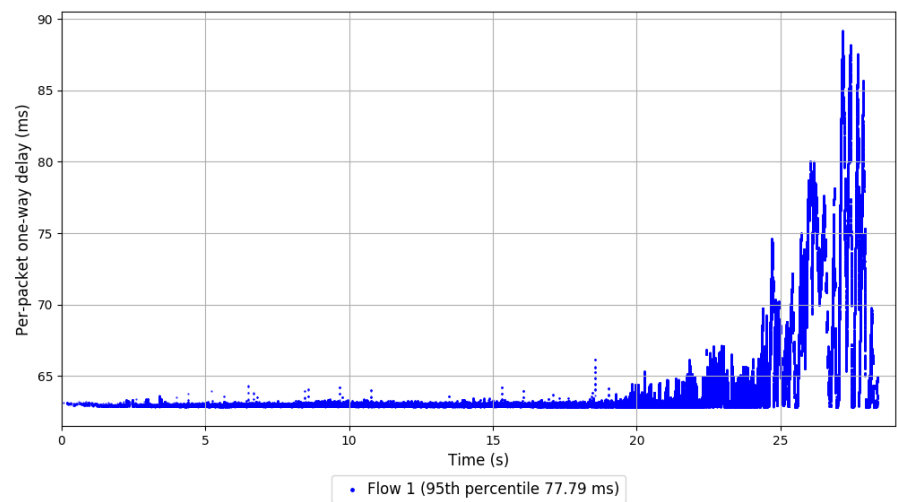
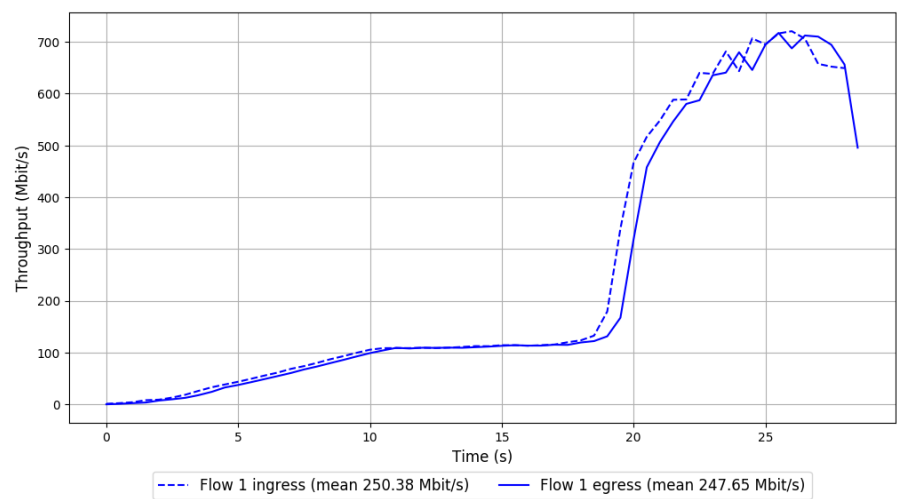
-- Flow 1:

Average throughput: 247.65 Mbit/s

95th percentile per-packet one-way delay: 77.786 ms

Loss rate: 1.53%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-19 07:26:34

End at: 2019-01-19 07:27:04

Local clock offset: -0.044 ms

Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-01-19 09:03:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 331.28 Mbit/s

95th percentile per-packet one-way delay: 96.890 ms

Loss rate: 1.28%

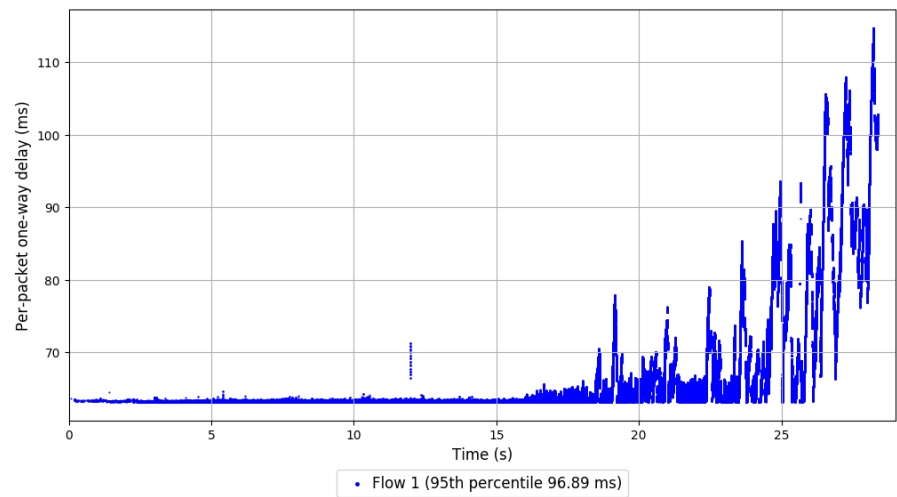
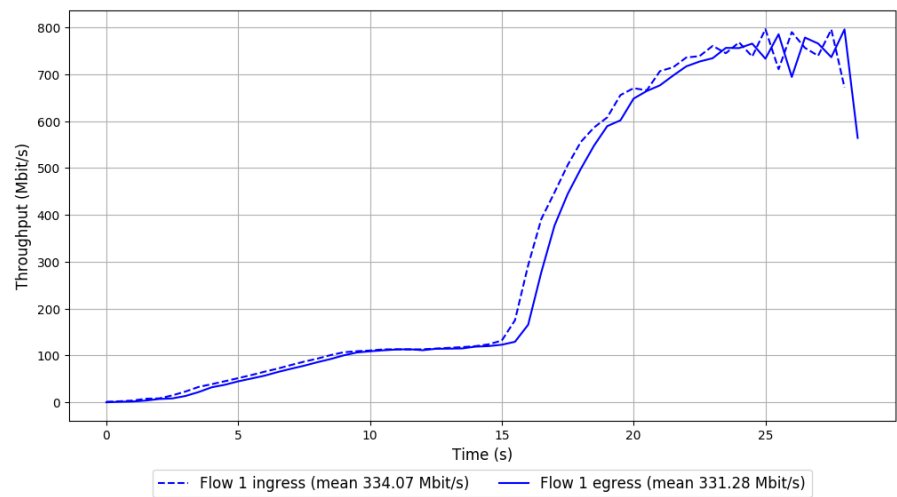
-- Flow 1:

Average throughput: 331.28 Mbit/s

95th percentile per-packet one-way delay: 96.890 ms

Loss rate: 1.28%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

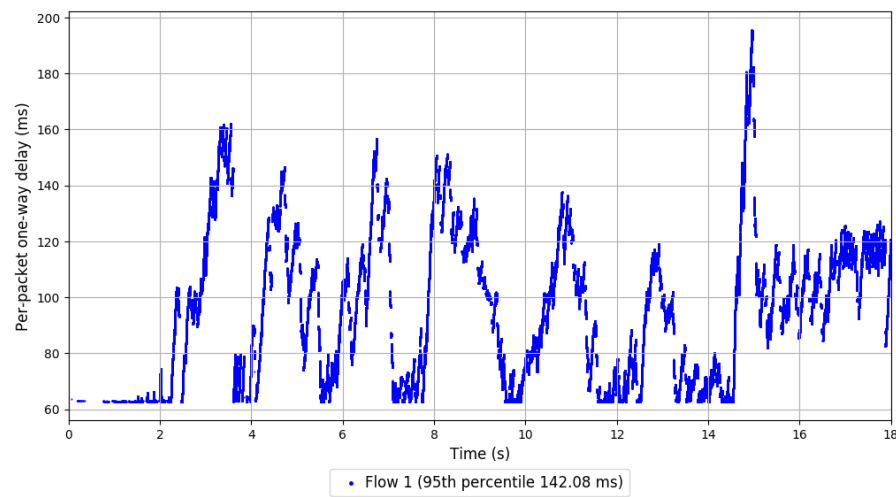
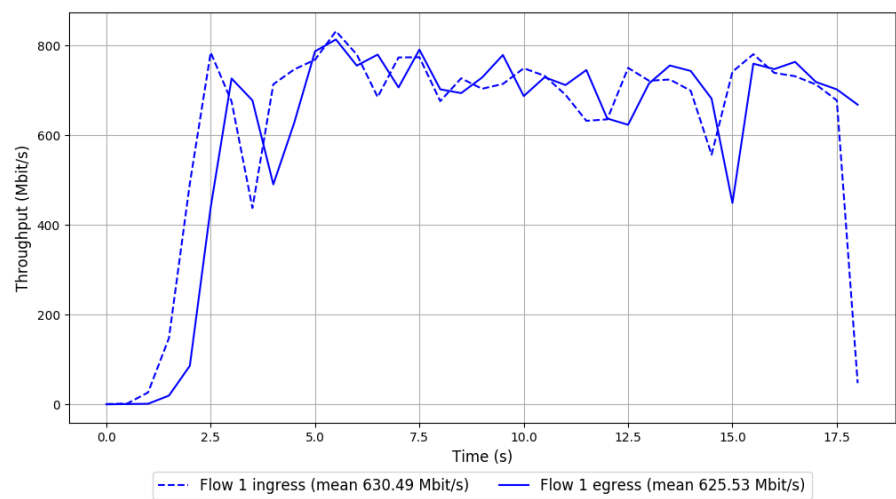
Start at: 2019-01-19 05:02:09

End at: 2019-01-19 05:02:39

Local clock offset: -0.145 ms

Remote clock offset: 0.403 ms

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-19 05:33:23

End at: 2019-01-19 05:33:53

Local clock offset: -0.099 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-01-19 09:08:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 662.66 Mbit/s

95th percentile per-packet one-way delay: 143.556 ms

Loss rate: 1.13%

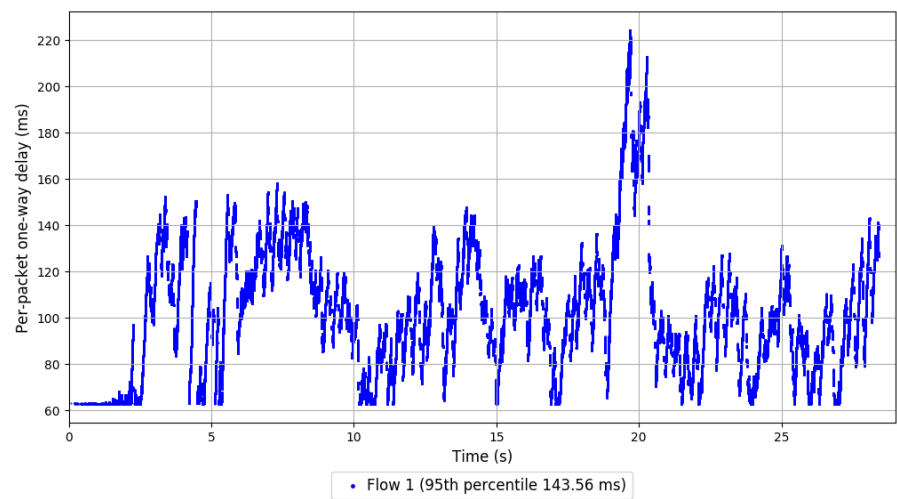
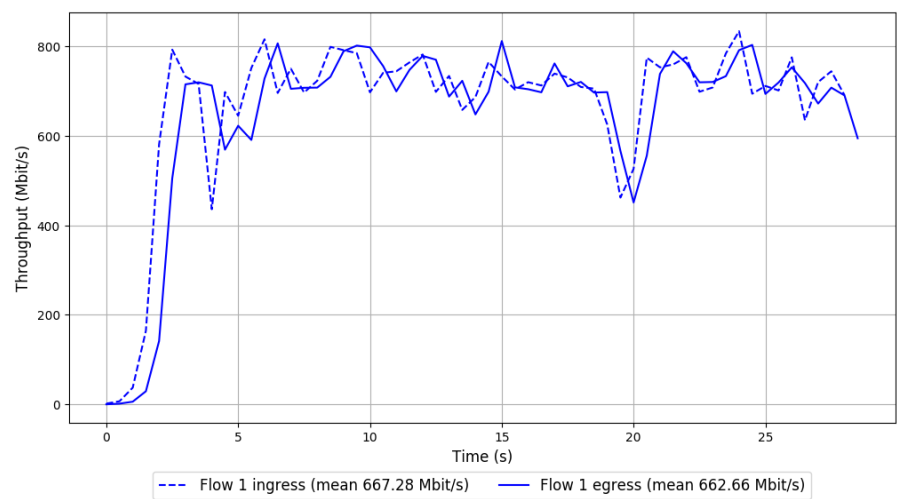
-- Flow 1:

Average throughput: 662.66 Mbit/s

95th percentile per-packet one-way delay: 143.556 ms

Loss rate: 1.13%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:04:42

End at: 2019-01-19 06:05:12

Local clock offset: -0.008 ms

Remote clock offset: 0.586 ms

# Below is generated by plot.py at 2019-01-19 09:10:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 703.77 Mbit/s

95th percentile per-packet one-way delay: 133.045 ms

Loss rate: 0.71%

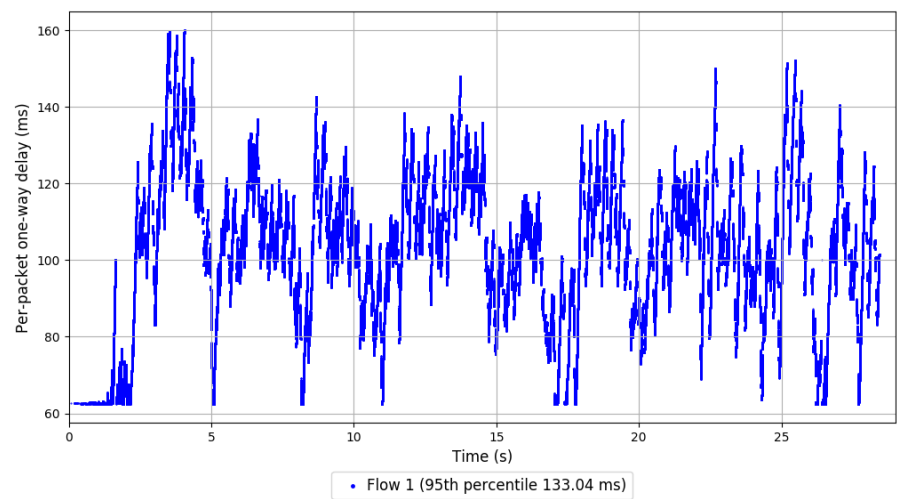
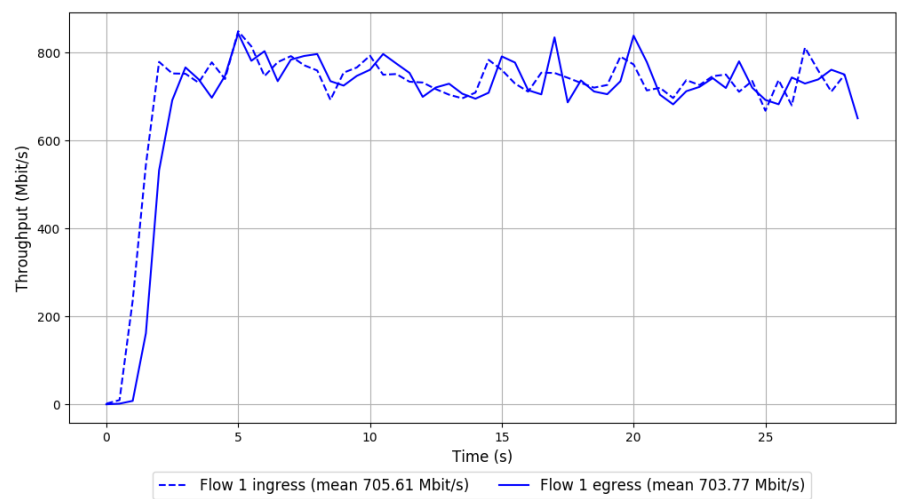
-- Flow 1:

Average throughput: 703.77 Mbit/s

95th percentile per-packet one-way delay: 133.045 ms

Loss rate: 0.71%

Run 3: Report of Indigo-MusesT — Data Link



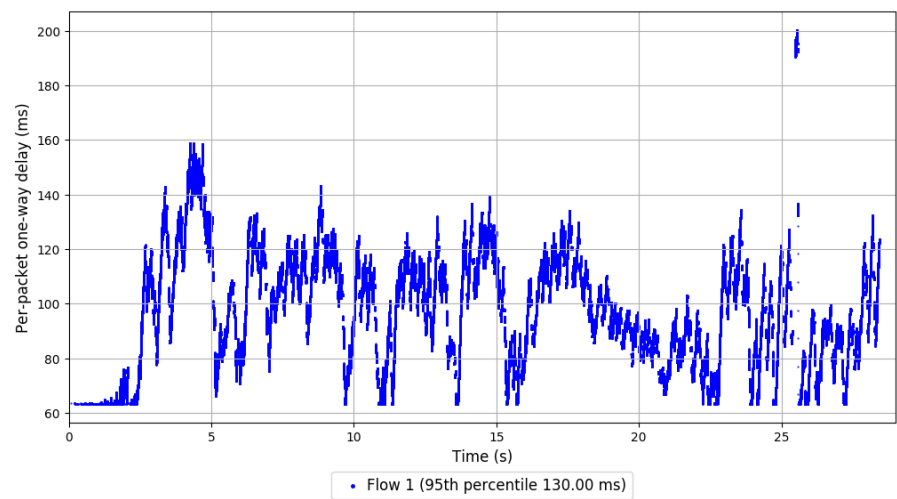
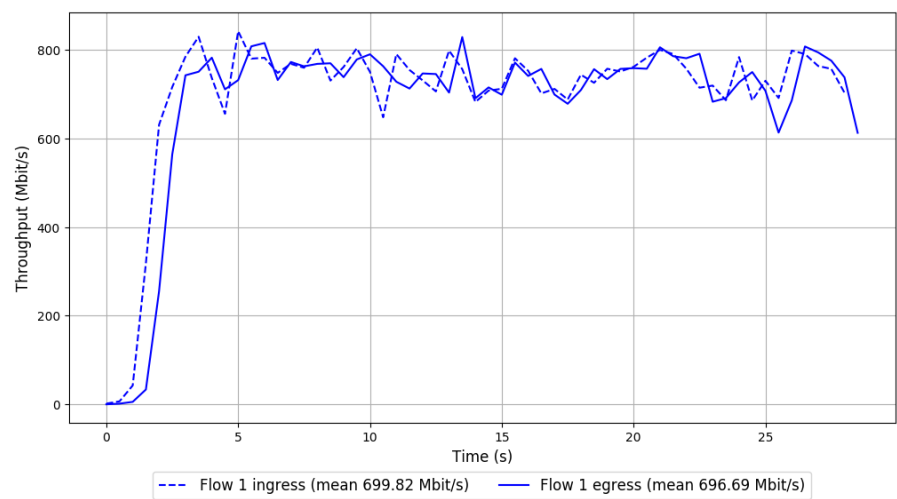


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-19 06:35:47  
End at: 2019-01-19 06:36:17  
Local clock offset: -0.091 ms  
Remote clock offset: -0.624 ms

# Below is generated by plot.py at 2019-01-19 09:10:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 696.69 Mbit/s  
95th percentile per-packet one-way delay: 129.998 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 696.69 Mbit/s  
95th percentile per-packet one-way delay: 129.998 ms  
Loss rate: 0.89%

Run 4: Report of Indigo-MusesT — Data Link

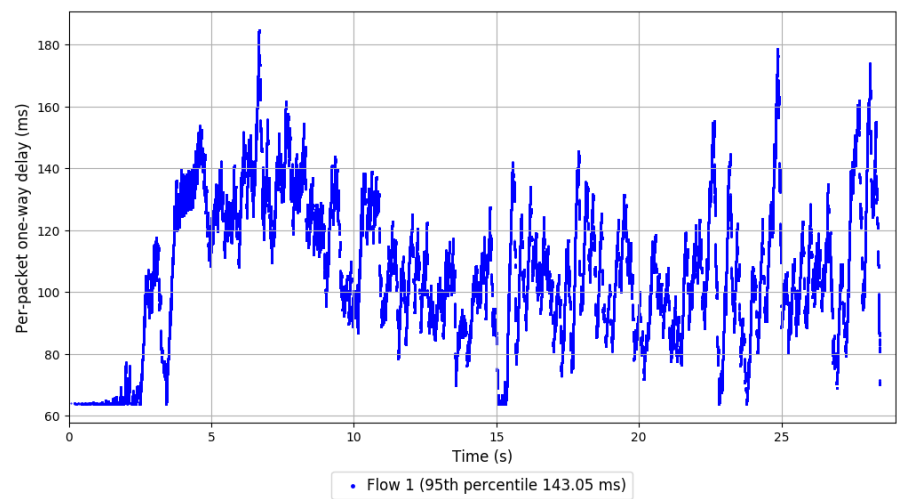
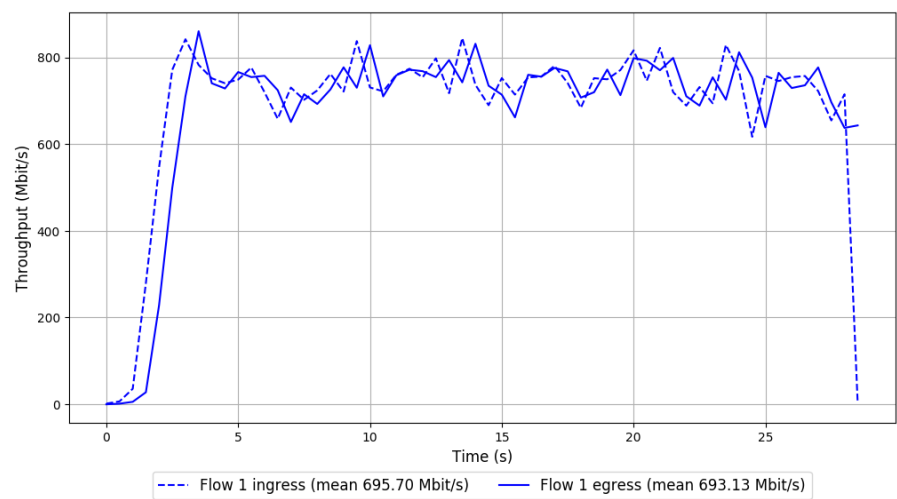


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-19 07:07:21  
End at: 2019-01-19 07:07:51  
Local clock offset: 0.002 ms  
Remote clock offset: -0.755 ms

# Below is generated by plot.py at 2019-01-19 09:11:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 693.13 Mbit/s  
95th percentile per-packet one-way delay: 143.050 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 693.13 Mbit/s  
95th percentile per-packet one-way delay: 143.050 ms  
Loss rate: 0.81%

Run 5: Report of Indigo-MusesT — Data Link

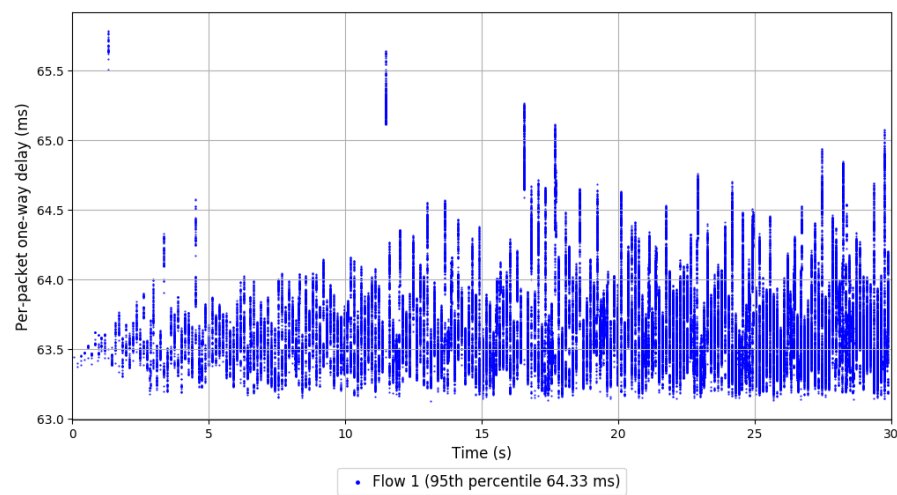
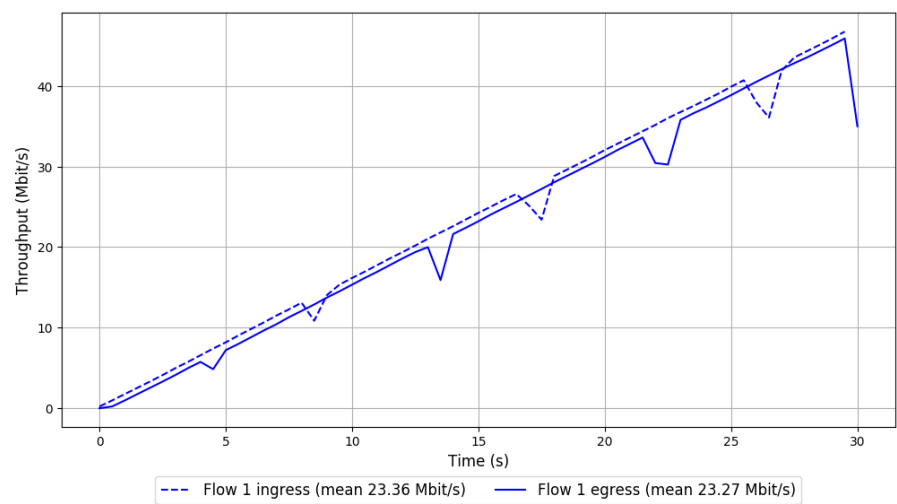


Run 1: Statistics of LEDBAT

Start at: 2019-01-19 05:14:56  
End at: 2019-01-19 05:15:26  
Local clock offset: -0.132 ms  
Remote clock offset: -0.367 ms

# Below is generated by plot.py at 2019-01-19 09:11:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.27 Mbit/s  
95th percentile per-packet one-way delay: 64.327 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 23.27 Mbit/s  
95th percentile per-packet one-way delay: 64.327 ms  
Loss rate: 0.84%

Run 1: Report of LEDBAT — Data Link

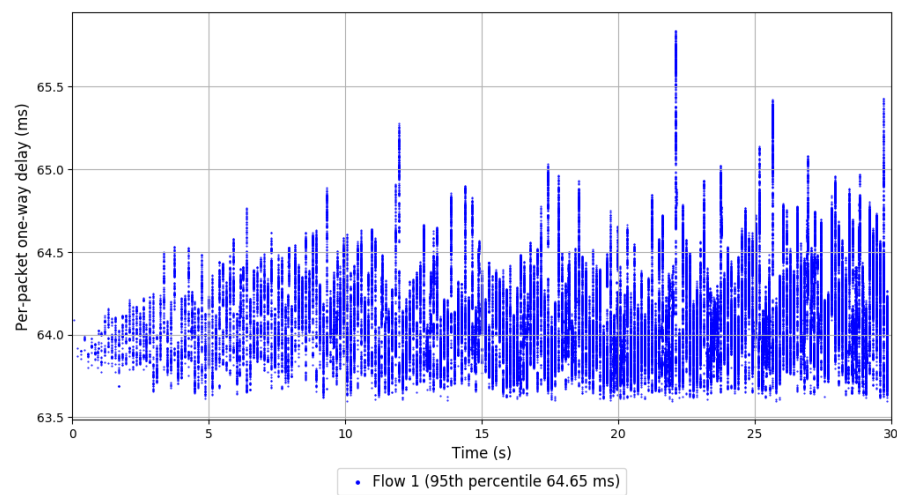
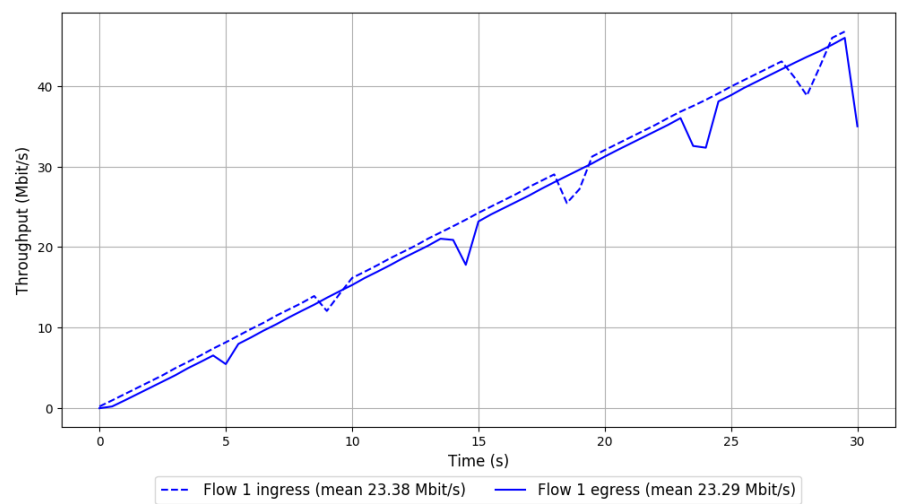


Run 2: Statistics of LEDBAT

Start at: 2019-01-19 05:46:20  
End at: 2019-01-19 05:46:50  
Local clock offset: -0.019 ms  
Remote clock offset: -0.638 ms

# Below is generated by plot.py at 2019-01-19 09:11:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.29 Mbit/s  
95th percentile per-packet one-way delay: 64.650 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 23.29 Mbit/s  
95th percentile per-packet one-way delay: 64.650 ms  
Loss rate: 0.84%

Run 2: Report of LEDBAT — Data Link



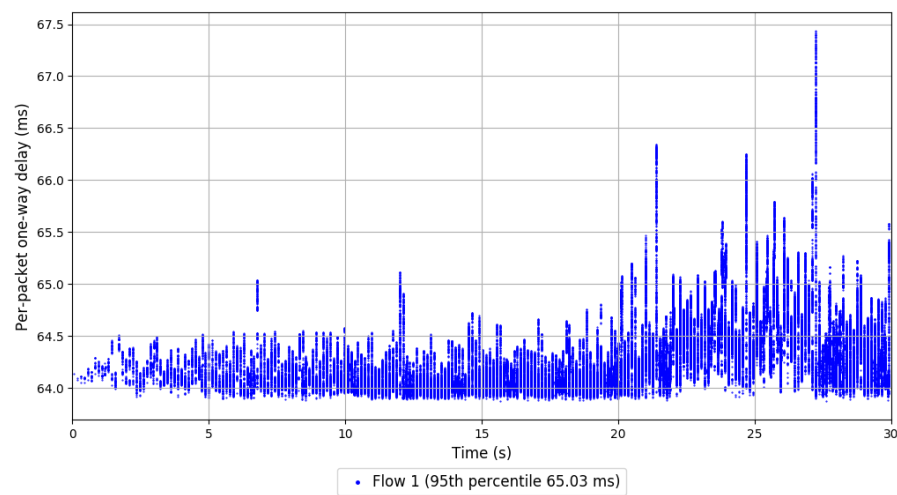
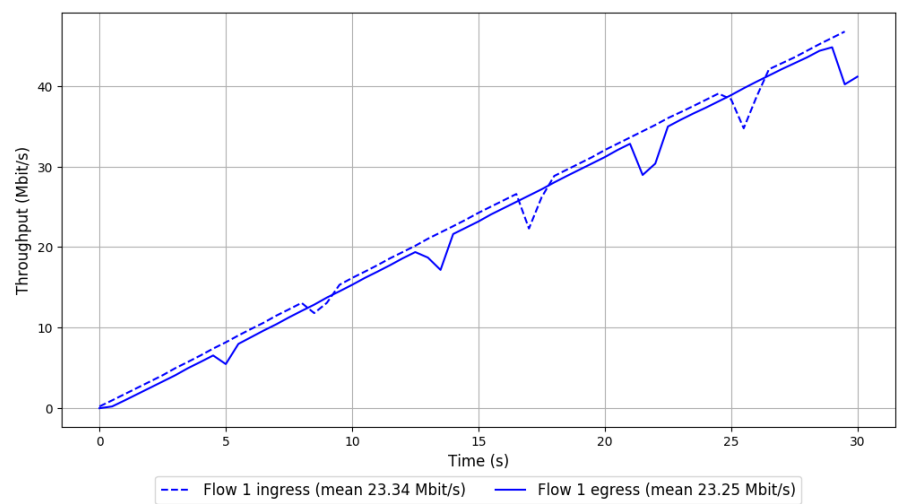


Run 3: Statistics of LEDBAT

Start at: 2019-01-19 06:17:41  
End at: 2019-01-19 06:18:11  
Local clock offset: 0.055 ms  
Remote clock offset: -0.741 ms

# Below is generated by plot.py at 2019-01-19 09:11:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 65.029 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 23.25 Mbit/s  
95th percentile per-packet one-way delay: 65.029 ms  
Loss rate: 0.84%

Run 3: Report of LEDBAT — Data Link

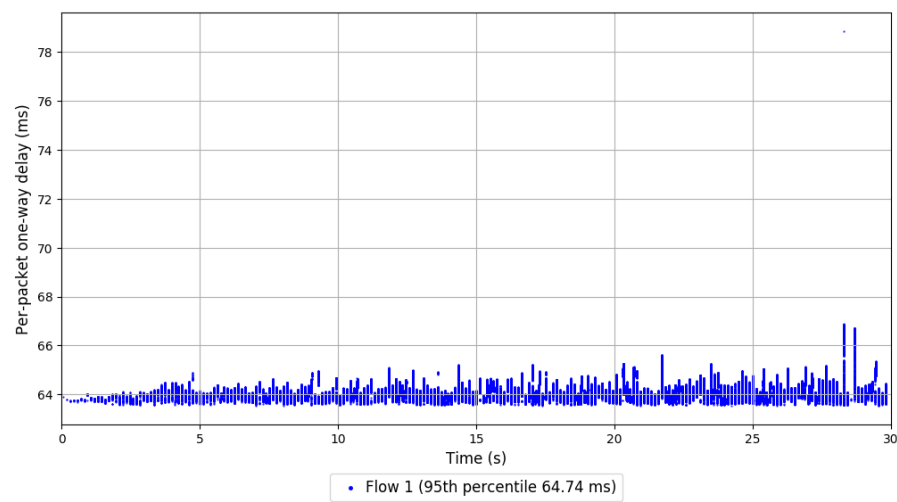
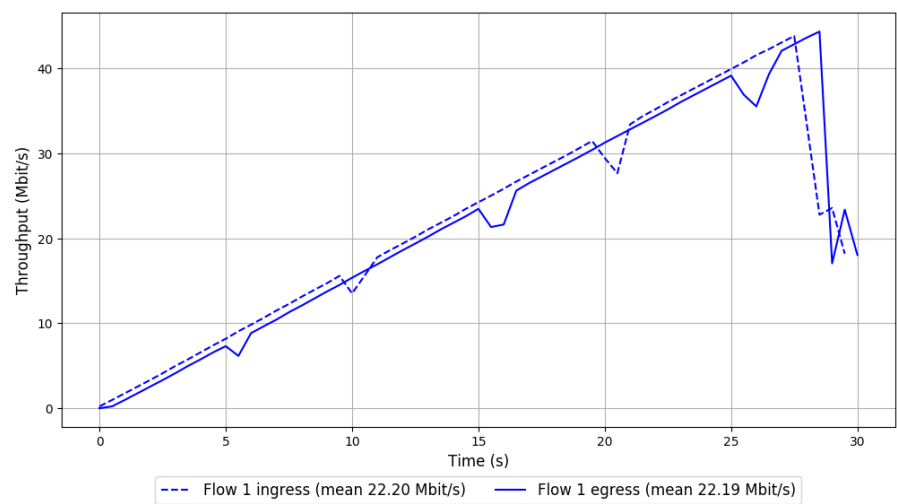


Run 4: Statistics of LEDBAT

Start at: 2019-01-19 06:49:02  
End at: 2019-01-19 06:49:32  
Local clock offset: -0.052 ms  
Remote clock offset: -0.679 ms

# Below is generated by plot.py at 2019-01-19 09:11:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 22.19 Mbit/s  
95th percentile per-packet one-way delay: 64.741 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 22.19 Mbit/s  
95th percentile per-packet one-way delay: 64.741 ms  
Loss rate: 0.46%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-01-19 07:20:36

End at: 2019-01-19 07:21:06

Local clock offset: -0.036 ms

Remote clock offset: -1.02 ms

# Below is generated by plot.py at 2019-01-19 09:11:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 64.805 ms

Loss rate: 0.84%

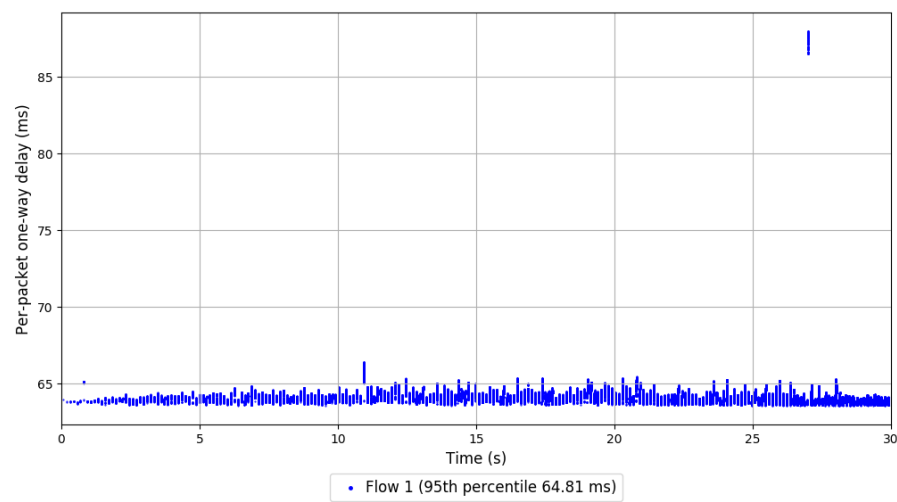
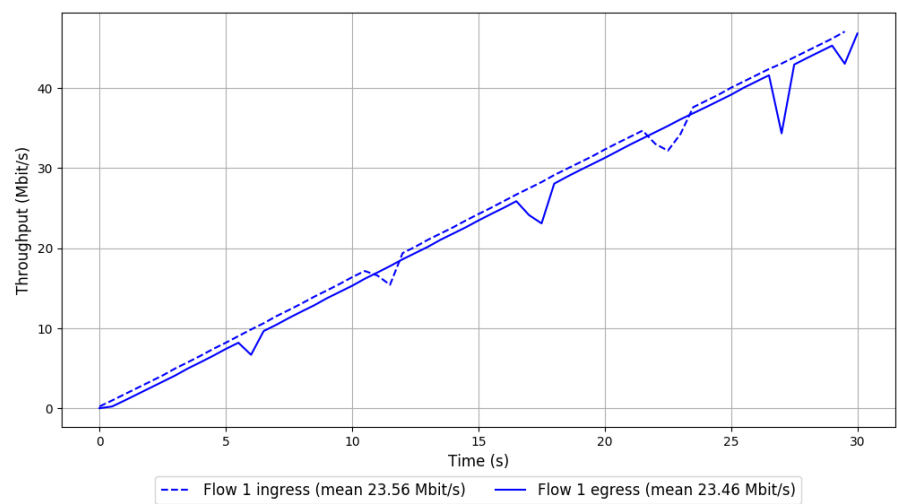
-- Flow 1:

Average throughput: 23.46 Mbit/s

95th percentile per-packet one-way delay: 64.805 ms

Loss rate: 0.84%

Run 5: Report of LEDBAT — Data Link

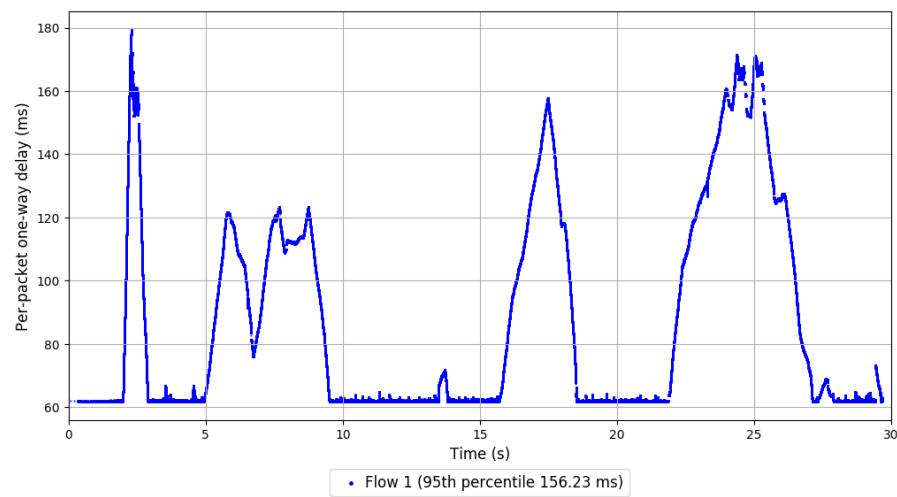
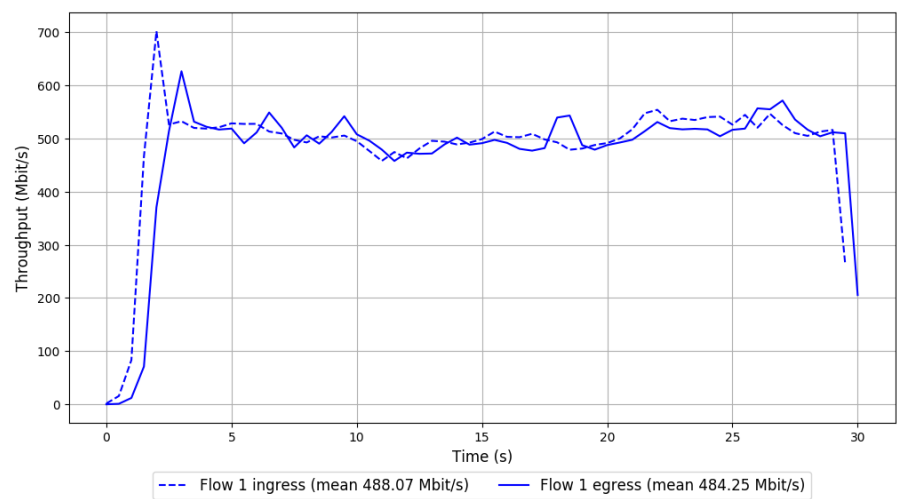


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-19 05:13:16
End at: 2019-01-19 05:13:46
Local clock offset: -0.195 ms
Remote clock offset: 1.146 ms

# Below is generated by plot.py at 2019-01-19 09:19:32
# Datalink statistics
-- Total of 1 flow:
Average throughput: 484.25 Mbit/s
95th percentile per-packet one-way delay: 156.230 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 484.25 Mbit/s
95th percentile per-packet one-way delay: 156.230 ms
Loss rate: 1.20%
```

Run 1: Report of PCC-Allegro — Data Link





Run 2: Statistics of PCC-Allegro

Start at: 2019-01-19 05:44:41

End at: 2019-01-19 05:45:11

Local clock offset: 0.005 ms

Remote clock offset: 0.678 ms

# Below is generated by plot.py at 2019-01-19 09:19:32

# Datalink statistics

-- Total of 1 flow:

Average throughput: 468.11 Mbit/s

95th percentile per-packet one-way delay: 169.932 ms

Loss rate: 3.13%

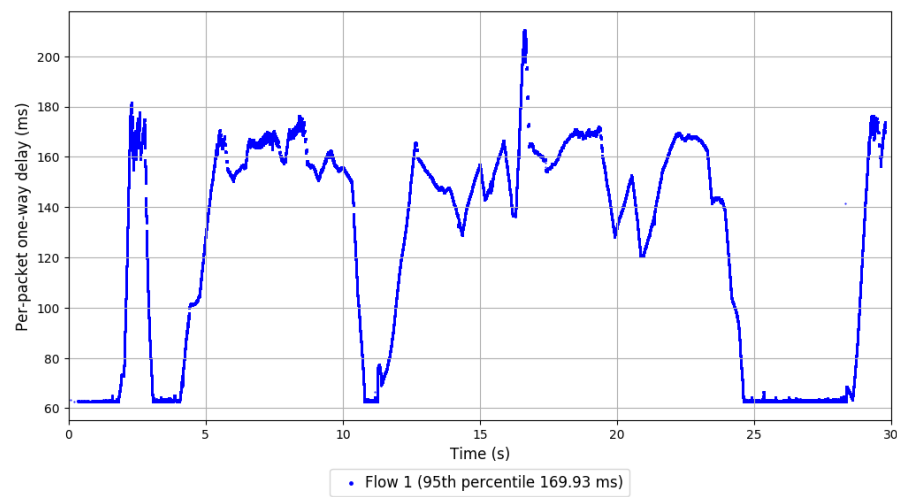
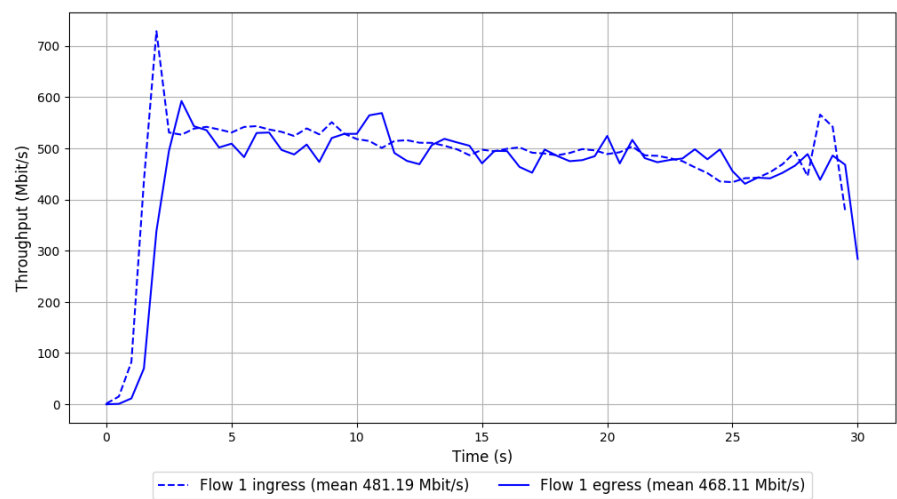
-- Flow 1:

Average throughput: 468.11 Mbit/s

95th percentile per-packet one-way delay: 169.932 ms

Loss rate: 3.13%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-01-19 06:16:02

End at: 2019-01-19 06:16:32

Local clock offset: -0.05 ms

Remote clock offset: -0.792 ms

# Below is generated by plot.py at 2019-01-19 09:21:30

# Datalink statistics

-- Total of 1 flow:

Average throughput: 482.57 Mbit/s

95th percentile per-packet one-way delay: 172.136 ms

Loss rate: 2.11%

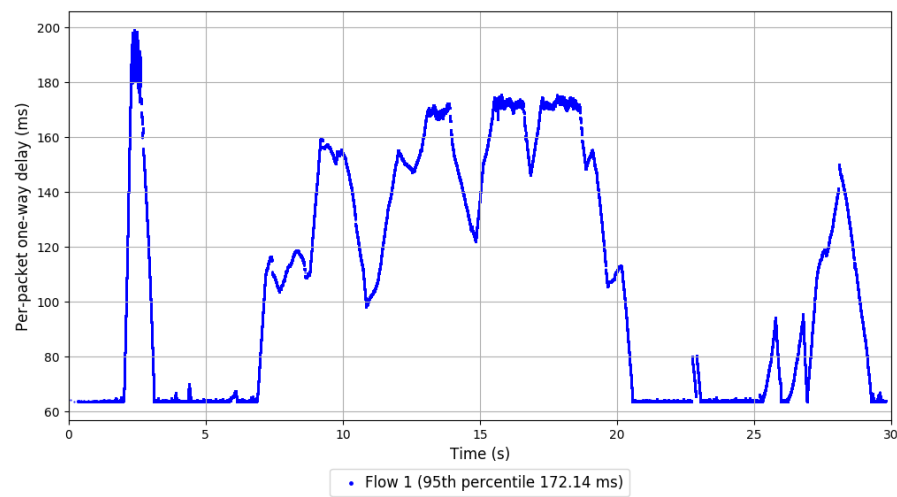
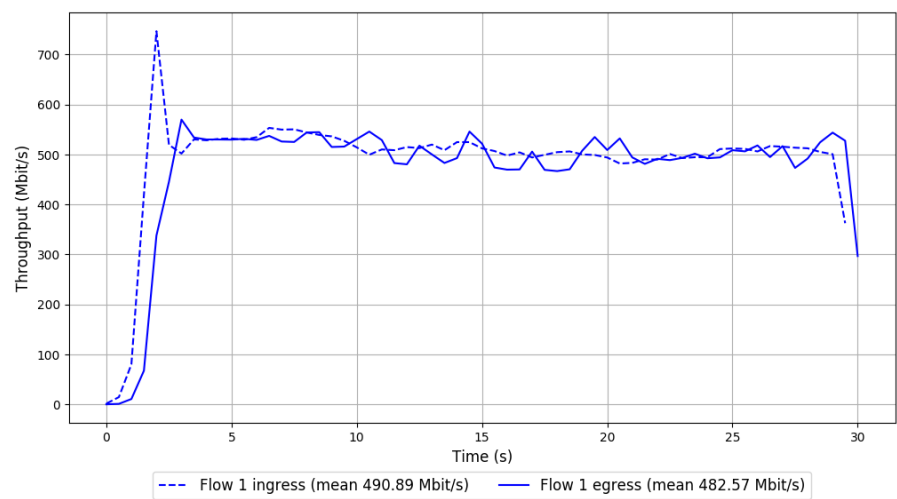
-- Flow 1:

Average throughput: 482.57 Mbit/s

95th percentile per-packet one-way delay: 172.136 ms

Loss rate: 2.11%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-19 06:47:25

End at: 2019-01-19 06:47:55

Local clock offset: -0.049 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-01-19 09:21:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 452.11 Mbit/s

95th percentile per-packet one-way delay: 155.600 ms

Loss rate: 2.36%

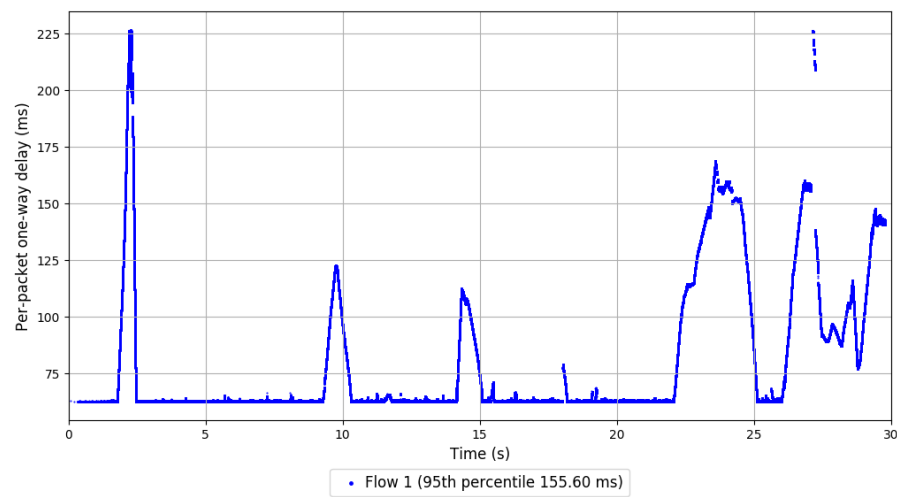
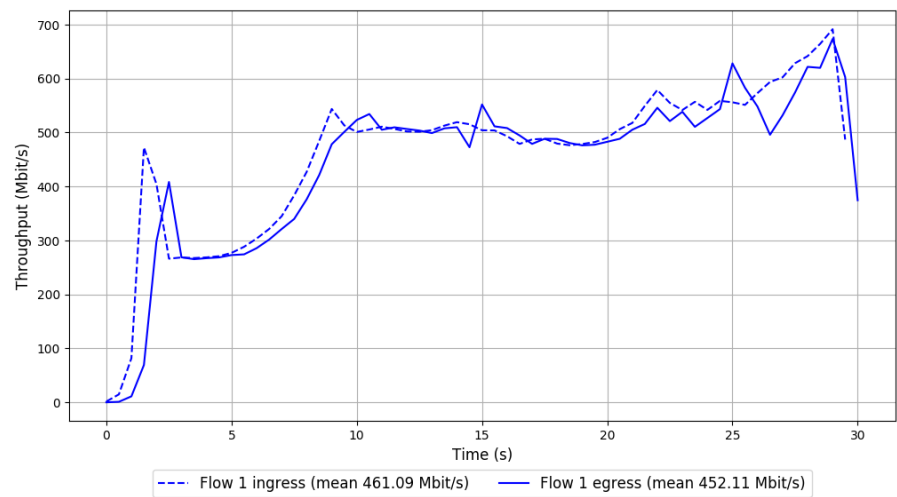
-- Flow 1:

Average throughput: 452.11 Mbit/s

95th percentile per-packet one-way delay: 155.600 ms

Loss rate: 2.36%

Run 4: Report of PCC-Allegro — Data Link

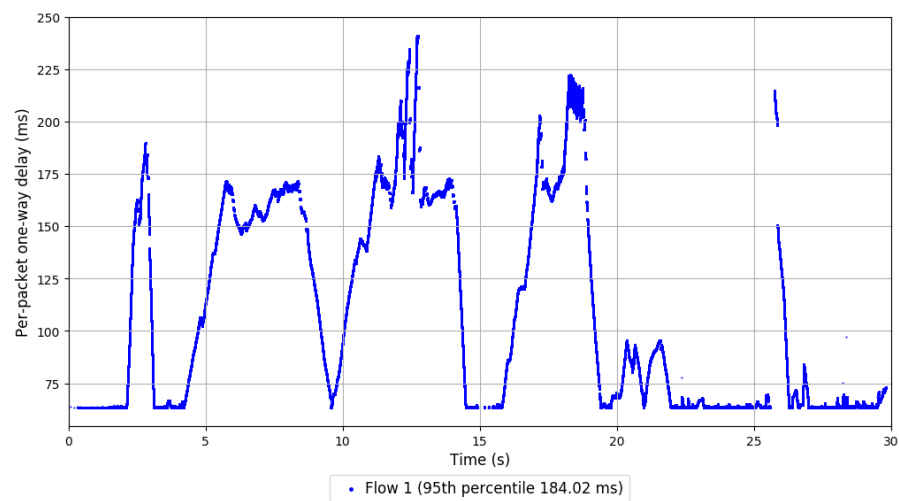
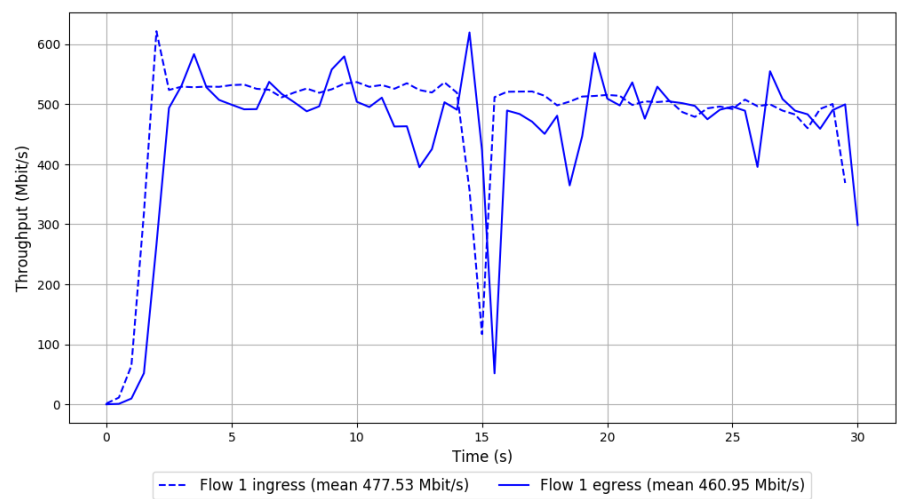


Run 5: Statistics of PCC-Allegro

Start at: 2019-01-19 07:18:57  
End at: 2019-01-19 07:19:27  
Local clock offset: -0.045 ms  
Remote clock offset: -0.431 ms

# Below is generated by plot.py at 2019-01-19 09:24:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 460.95 Mbit/s  
95th percentile per-packet one-way delay: 184.022 ms  
Loss rate: 3.88%  
-- Flow 1:  
Average throughput: 460.95 Mbit/s  
95th percentile per-packet one-way delay: 184.022 ms  
Loss rate: 3.88%

Run 5: Report of PCC-Allegro — Data Link



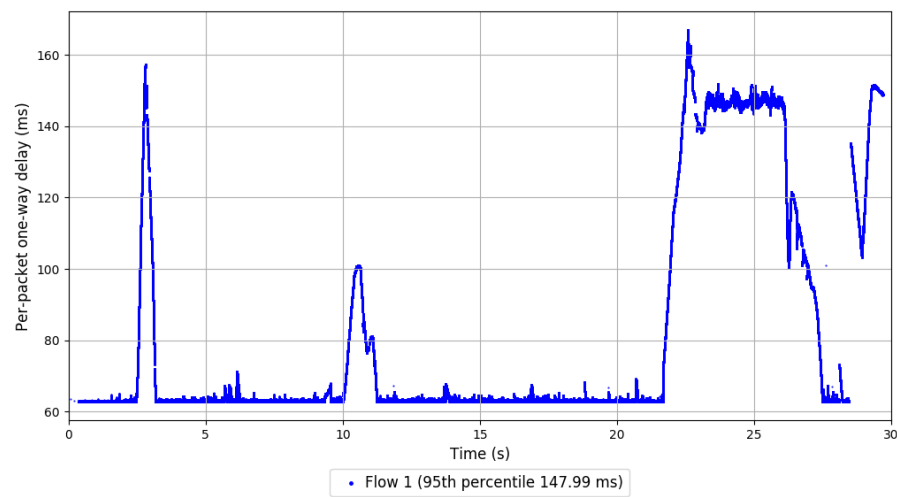
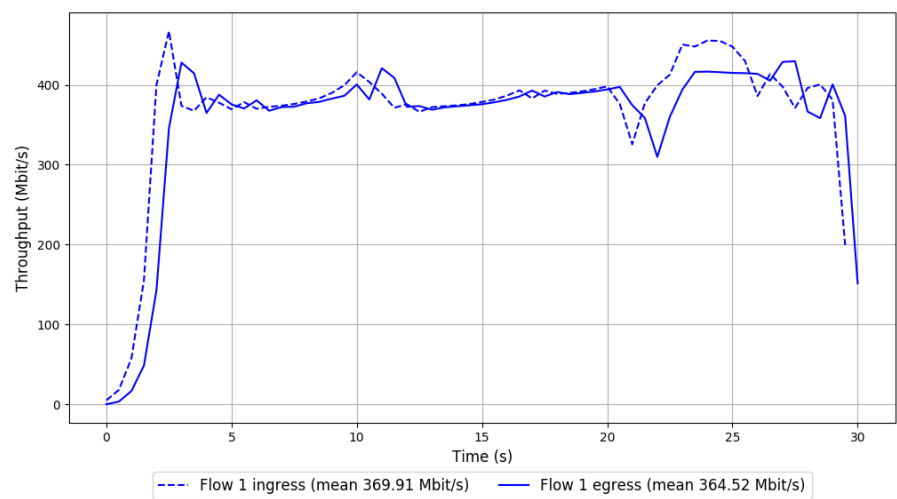


Run 1: Statistics of PCC-Expr

Start at: 2019-01-19 05:30:07  
End at: 2019-01-19 05:30:37  
Local clock offset: -0.14 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-01-19 09:24:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 364.52 Mbit/s  
95th percentile per-packet one-way delay: 147.991 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 364.52 Mbit/s  
95th percentile per-packet one-way delay: 147.991 ms  
Loss rate: 1.88%

Run 1: Report of PCC-Expr — Data Link

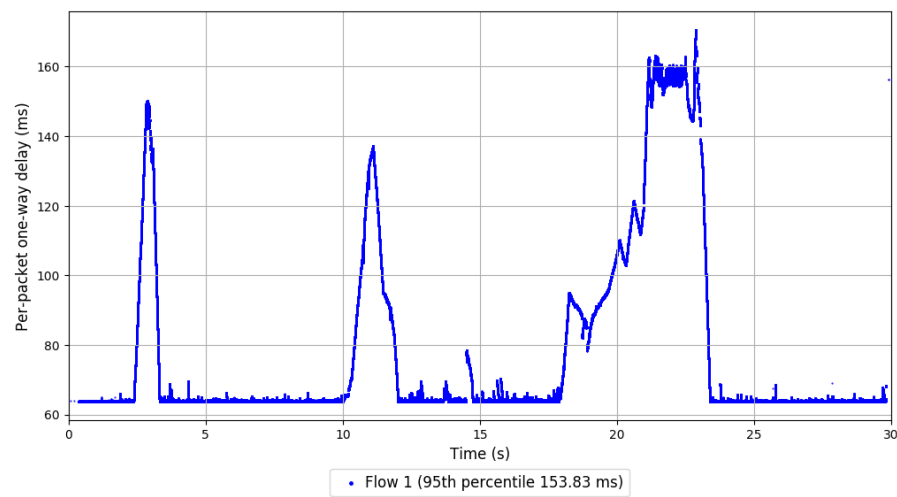
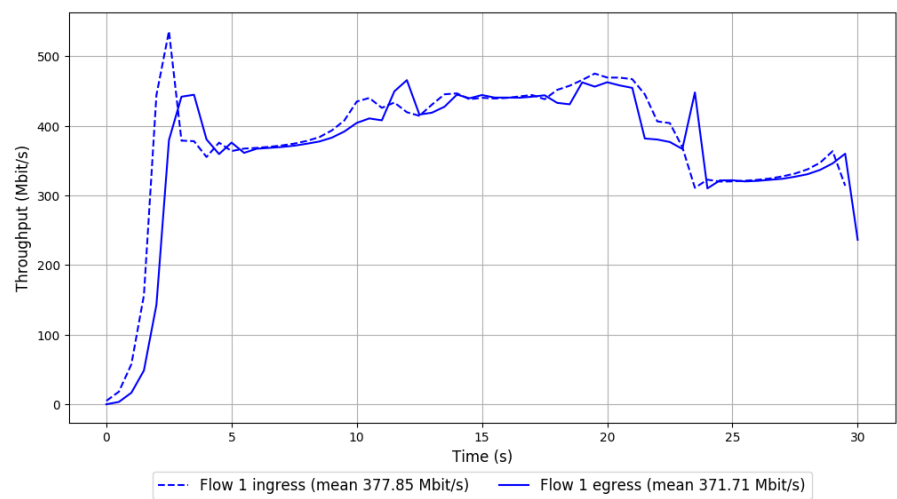


Run 2: Statistics of PCC-Expr

Start at: 2019-01-19 06:01:25  
End at: 2019-01-19 06:01:55  
Local clock offset: 0.012 ms  
Remote clock offset: -0.814 ms

# Below is generated by plot.py at 2019-01-19 09:24:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 371.71 Mbit/s  
95th percentile per-packet one-way delay: 153.833 ms  
Loss rate: 1.85%  
-- Flow 1:  
Average throughput: 371.71 Mbit/s  
95th percentile per-packet one-way delay: 153.833 ms  
Loss rate: 1.85%

Run 2: Report of PCC-Expr — Data Link

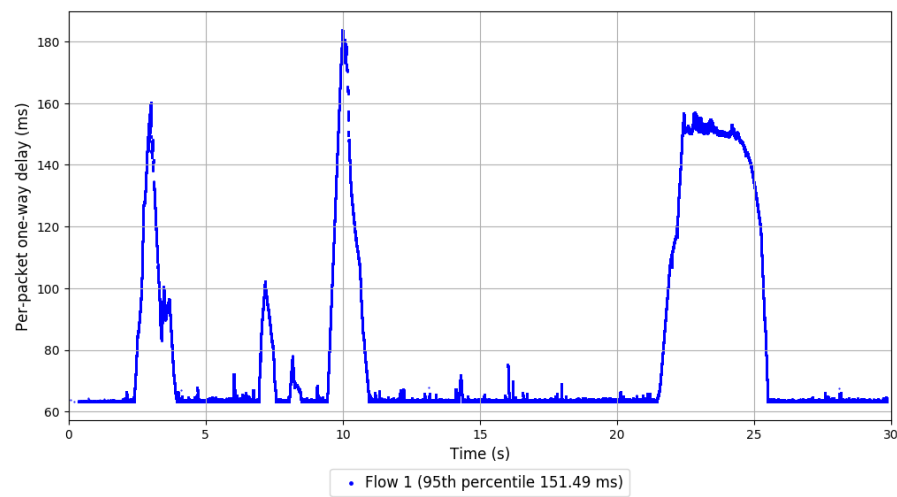
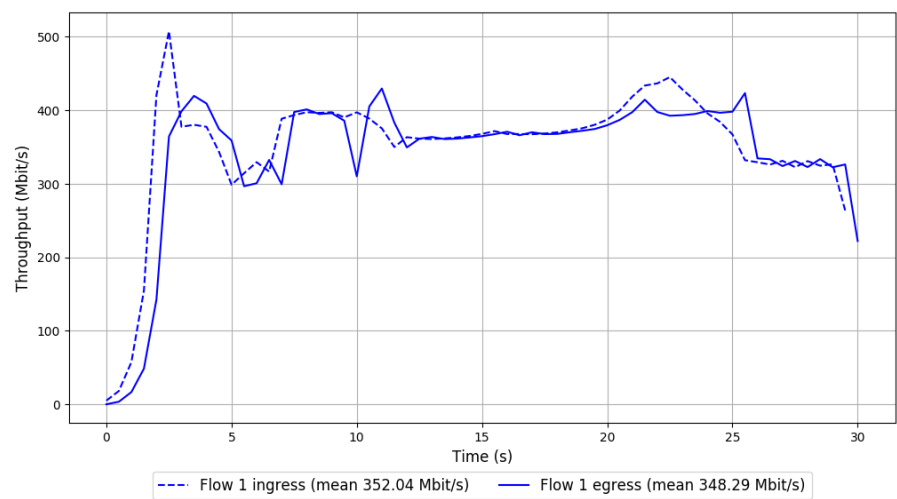


Run 3: Statistics of PCC-Expr

Start at: 2019-01-19 06:32:40  
End at: 2019-01-19 06:33:11  
Local clock offset: -0.144 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-01-19 09:24:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 348.29 Mbit/s  
95th percentile per-packet one-way delay: 151.488 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 348.29 Mbit/s  
95th percentile per-packet one-way delay: 151.488 ms  
Loss rate: 1.49%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-01-19 07:04:04

End at: 2019-01-19 07:04:34

Local clock offset: -0.061 ms

Remote clock offset: -0.65 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 367.75 Mbit/s

95th percentile per-packet one-way delay: 118.206 ms

Loss rate: 0.33%

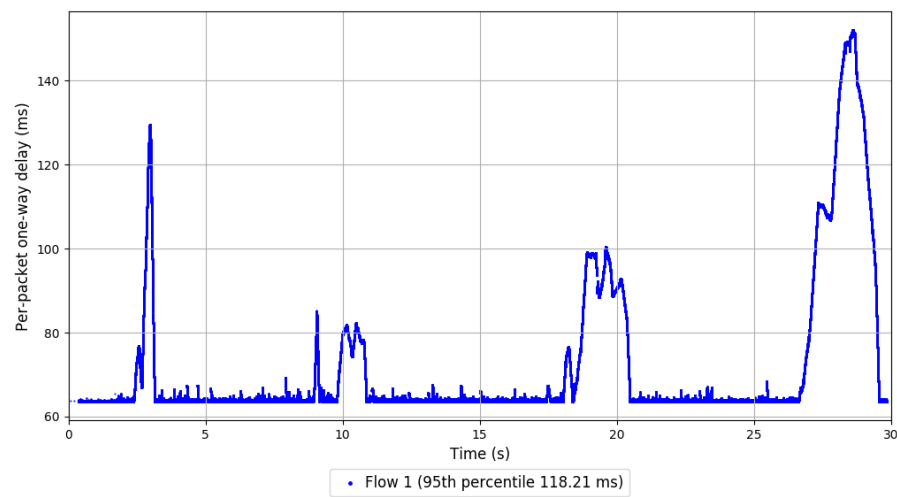
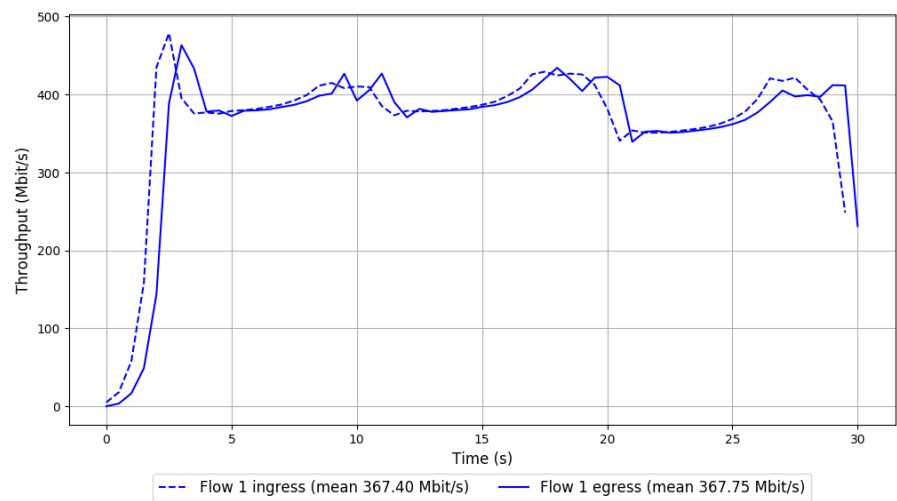
-- Flow 1:

Average throughput: 367.75 Mbit/s

95th percentile per-packet one-way delay: 118.206 ms

Loss rate: 0.33%

Run 4: Report of PCC-Expr — Data Link



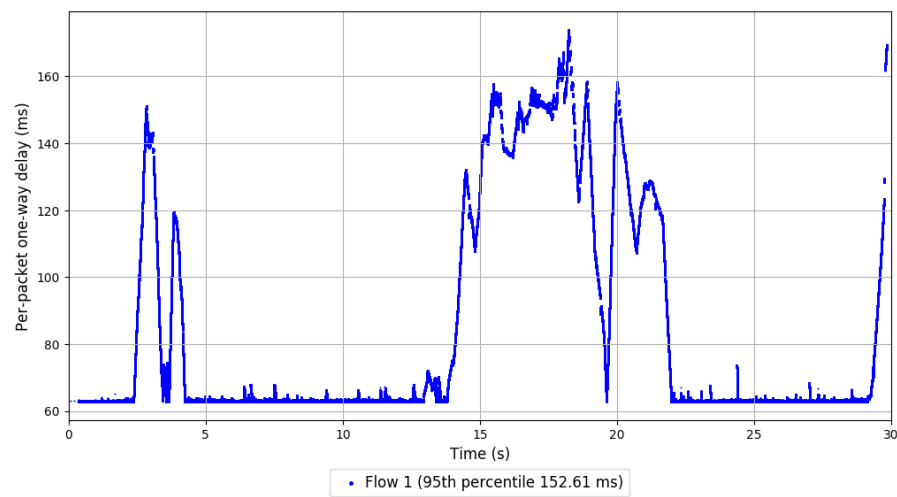
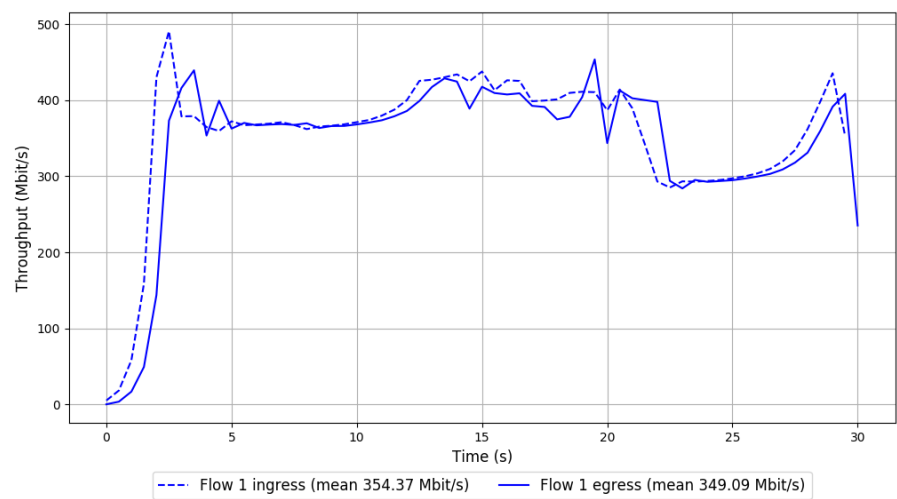


Run 5: Statistics of PCC-Expr

Start at: 2019-01-19 07:35:36  
End at: 2019-01-19 07:36:06  
Local clock offset: -0.059 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 349.09 Mbit/s  
95th percentile per-packet one-way delay: 152.611 ms  
Loss rate: 1.91%  
-- Flow 1:  
Average throughput: 349.09 Mbit/s  
95th percentile per-packet one-way delay: 152.611 ms  
Loss rate: 1.91%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

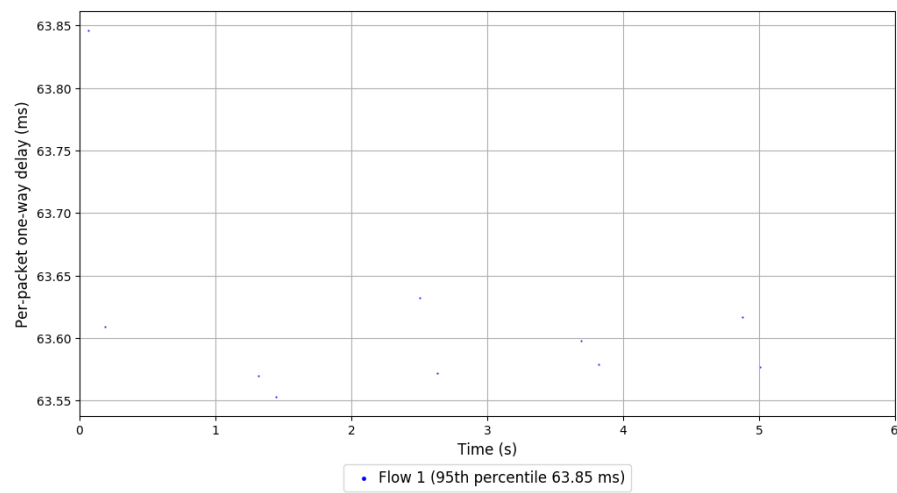
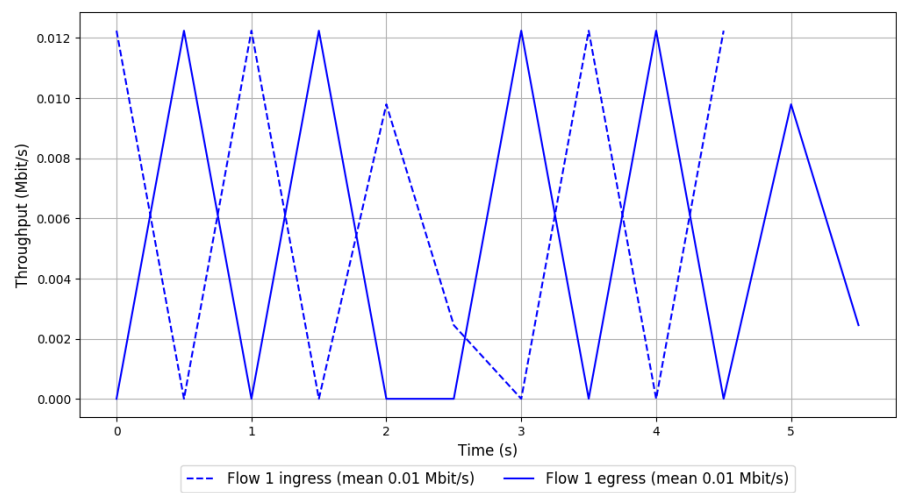
Start at: 2019-01-19 05:09:02

End at: 2019-01-19 05:09:32

Local clock offset: -0.123 ms

Remote clock offset: -0.839 ms

Run 1: Report of QUIC Cubic — Data Link

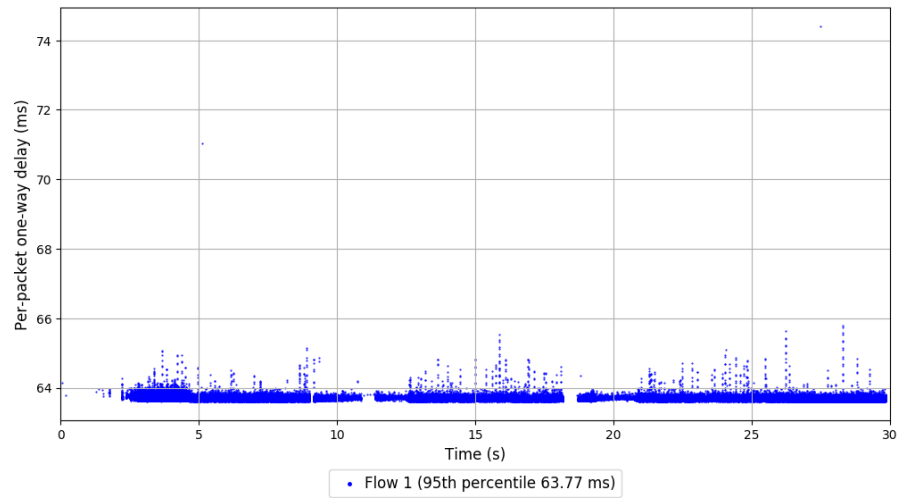
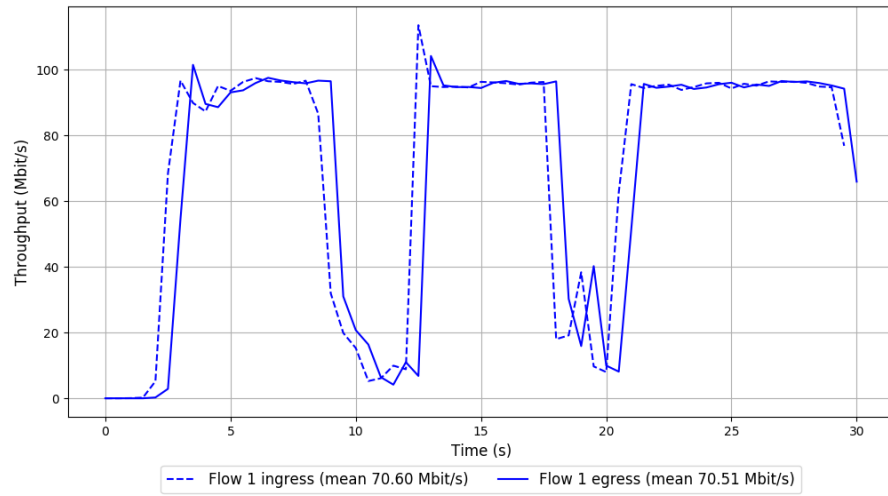


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-19 05:40:23  
End at: 2019-01-19 05:40:53  
Local clock offset: -0.037 ms  
Remote clock offset: -0.758 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 70.51 Mbit/s  
95th percentile per-packet one-way delay: 63.774 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 70.51 Mbit/s  
95th percentile per-packet one-way delay: 63.774 ms  
Loss rate: 0.55%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-01-19 06:11:44

End at: 2019-01-19 06:12:14

Local clock offset: -0.039 ms

Remote clock offset: -0.559 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.57%

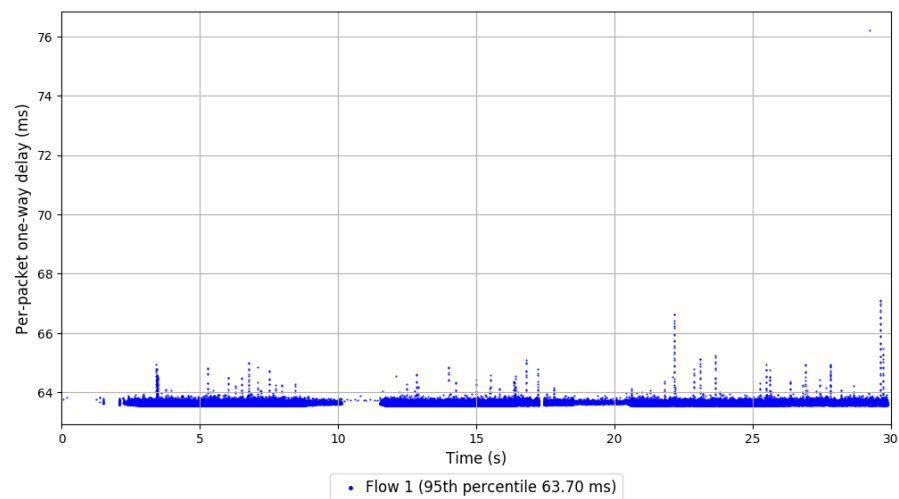
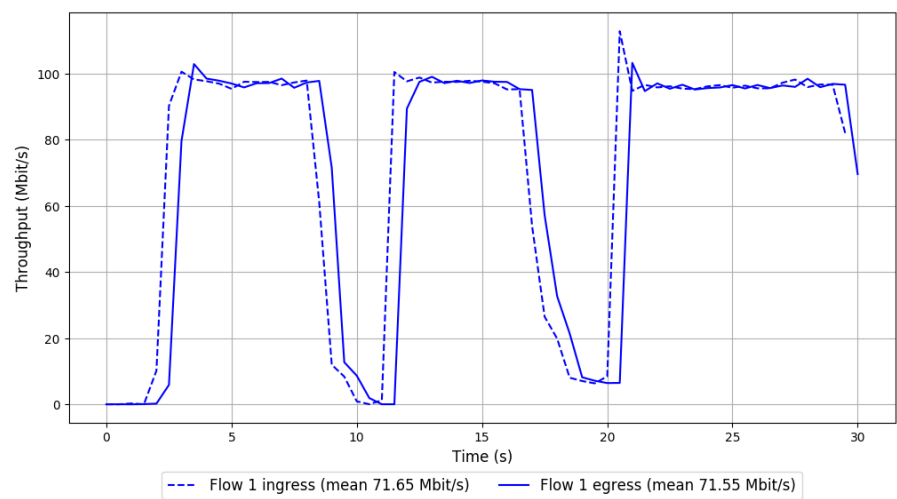
-- Flow 1:

Average throughput: 71.55 Mbit/s

95th percentile per-packet one-way delay: 63.696 ms

Loss rate: 0.57%

Run 3: Report of QUIC Cubic — Data Link





Run 4: Statistics of QUIC Cubic

Start at: 2019-01-19 06:43:06

End at: 2019-01-19 06:43:36

Local clock offset: -0.089 ms

Remote clock offset: 0.558 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 62.453 ms

Loss rate: 0.56%

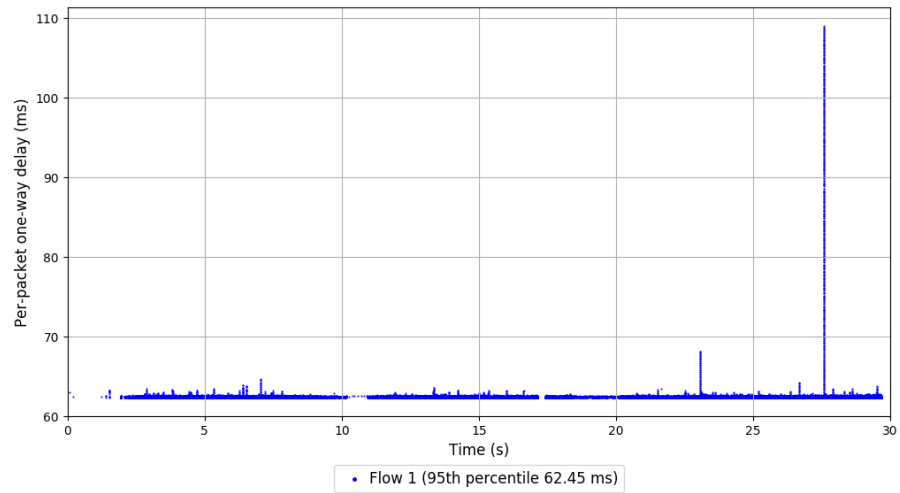
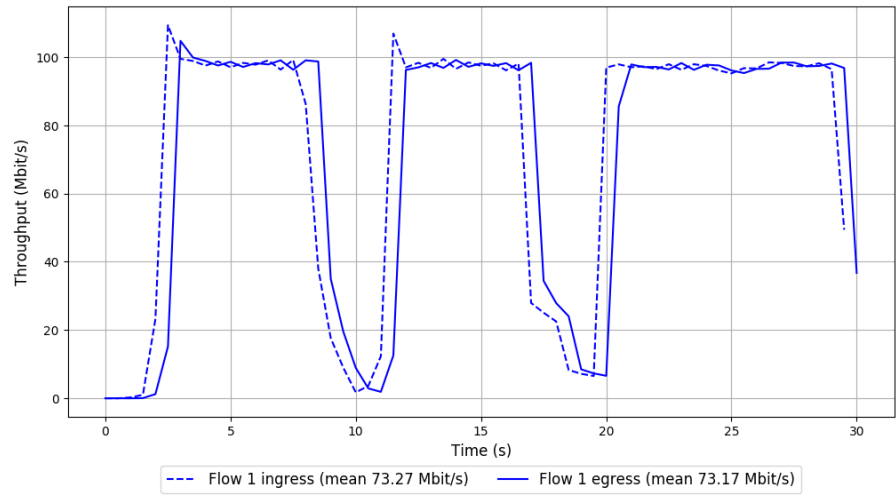
-- Flow 1:

Average throughput: 73.17 Mbit/s

95th percentile per-packet one-way delay: 62.453 ms

Loss rate: 0.56%

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

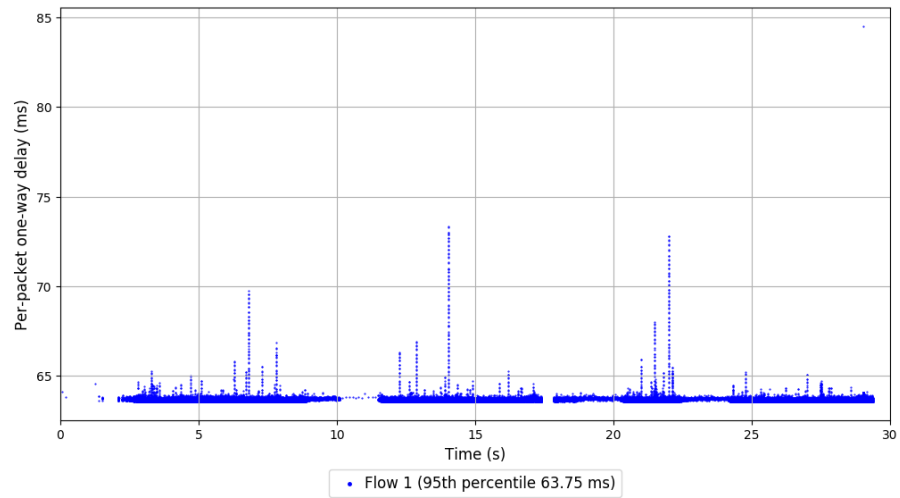
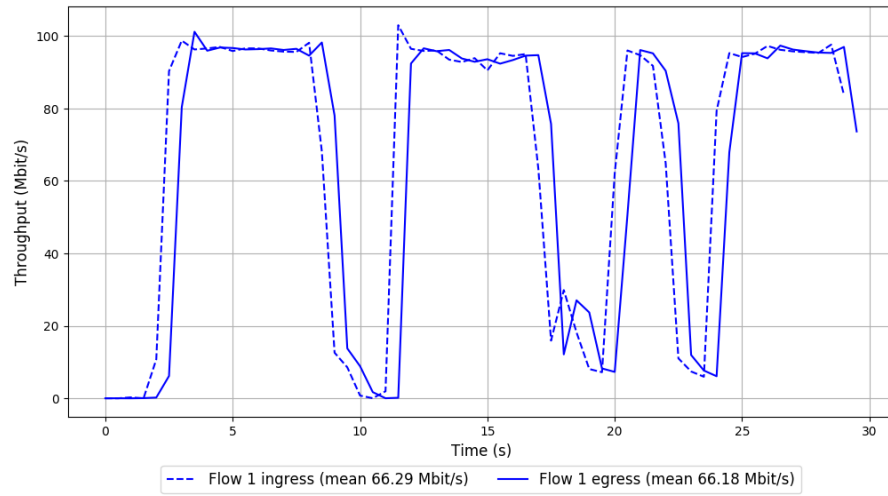


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-19 07:14:39  
End at: 2019-01-19 07:15:09  
Local clock offset: -0.022 ms  
Remote clock offset: -0.434 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 66.18 Mbit/s  
95th percentile per-packet one-way delay: 63.753 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 66.18 Mbit/s  
95th percentile per-packet one-way delay: 63.753 ms  
Loss rate: 0.59%

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

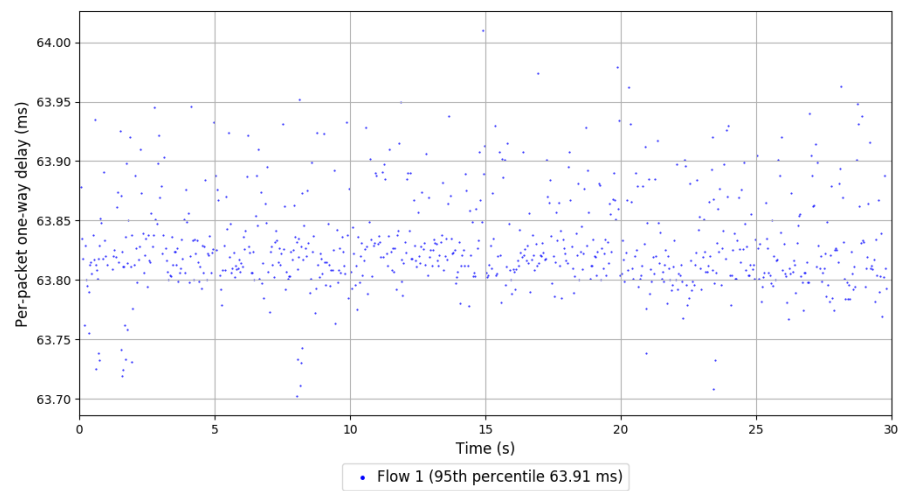
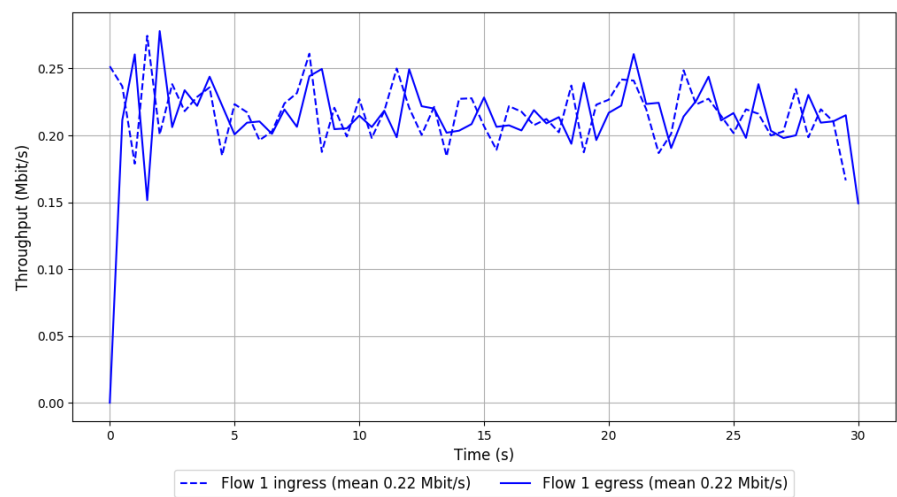


Run 1: Statistics of SCReAM

Start at: 2019-01-19 05:23:58  
End at: 2019-01-19 05:24:28  
Local clock offset: -0.136 ms  
Remote clock offset: -1.034 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.914 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.914 ms  
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

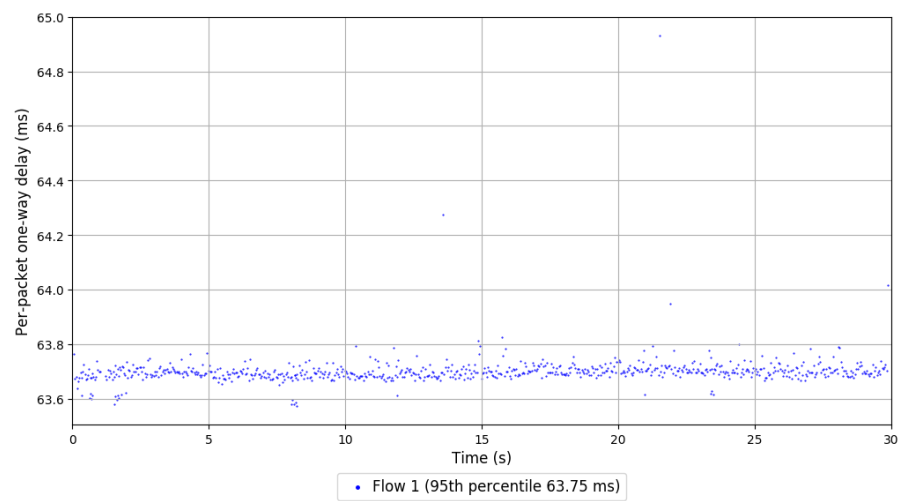
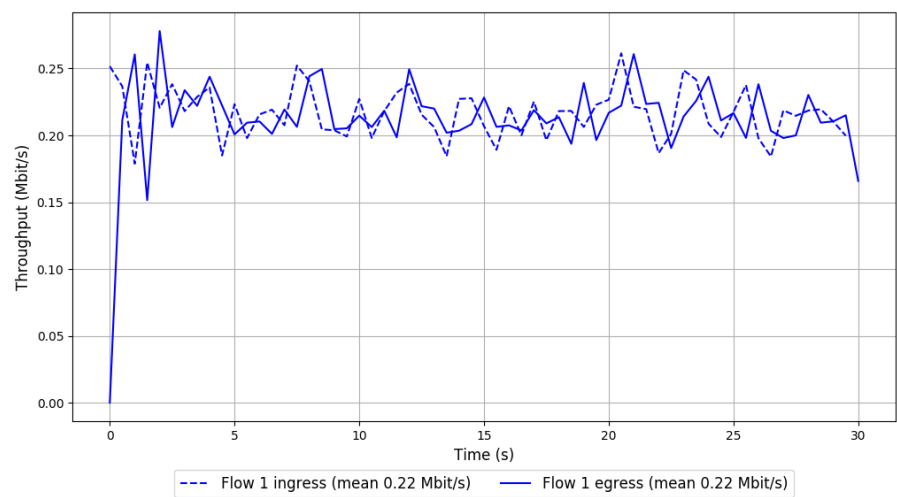


Run 2: Statistics of SCReAM

Start at: 2019-01-19 05:55:16  
End at: 2019-01-19 05:55:46  
Local clock offset: -0.004 ms  
Remote clock offset: -0.654 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.746 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.746 ms  
Loss rate: 0.51%

Run 2: Report of SReAM — Data Link



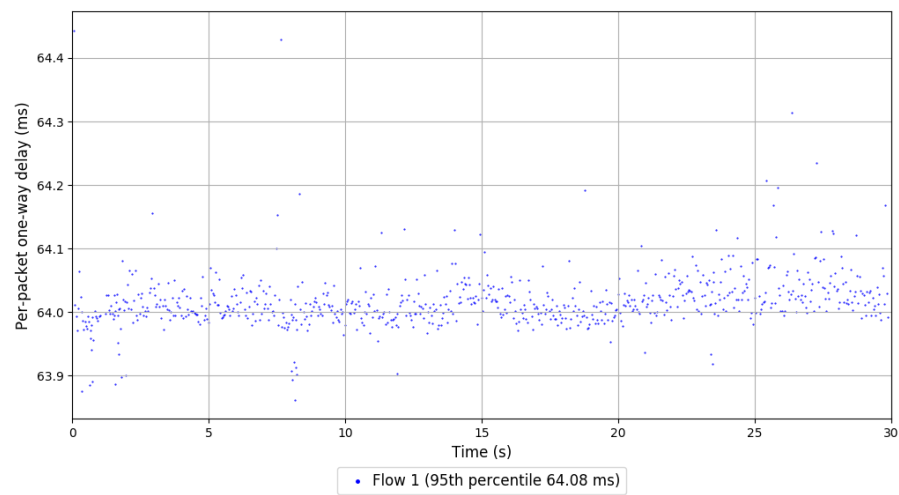
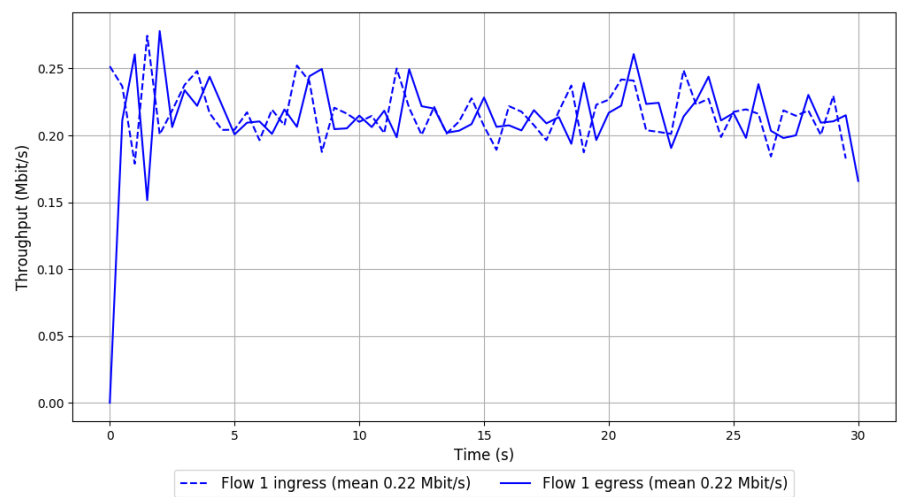


Run 3: Statistics of SCReAM

Start at: 2019-01-19 06:26:34  
End at: 2019-01-19 06:27:04  
Local clock offset: -0.063 ms  
Remote clock offset: -0.872 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 64.081 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 64.081 ms  
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link

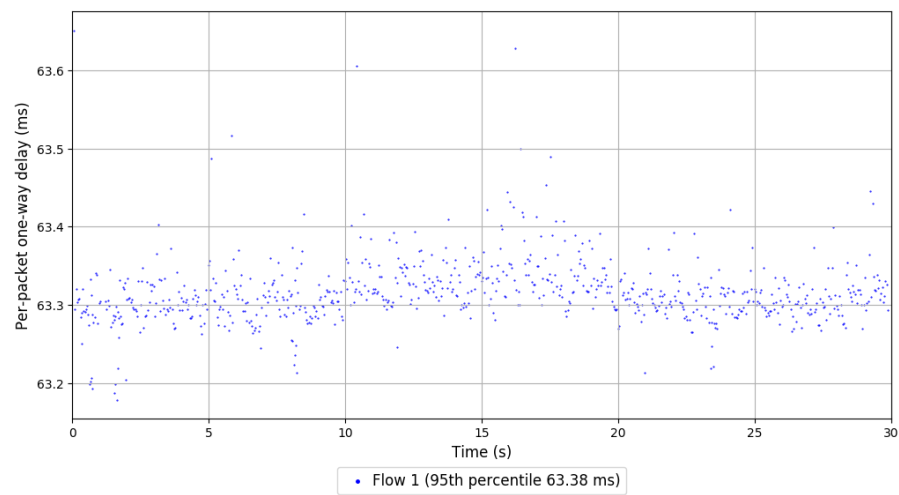
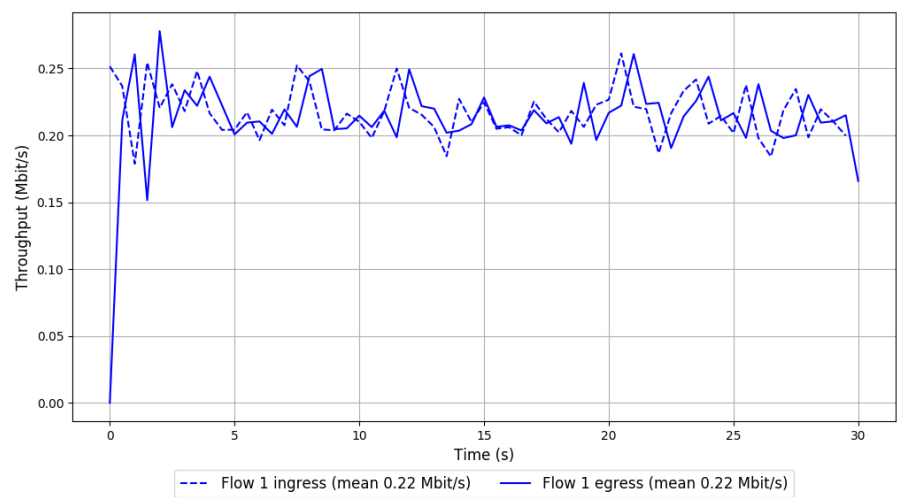


Run 4: Statistics of SCReAM

Start at: 2019-01-19 06:57:54  
End at: 2019-01-19 06:58:24  
Local clock offset: -0.054 ms  
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.384 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.384 ms  
Loss rate: 0.51%

Run 4: Report of SReAM — Data Link

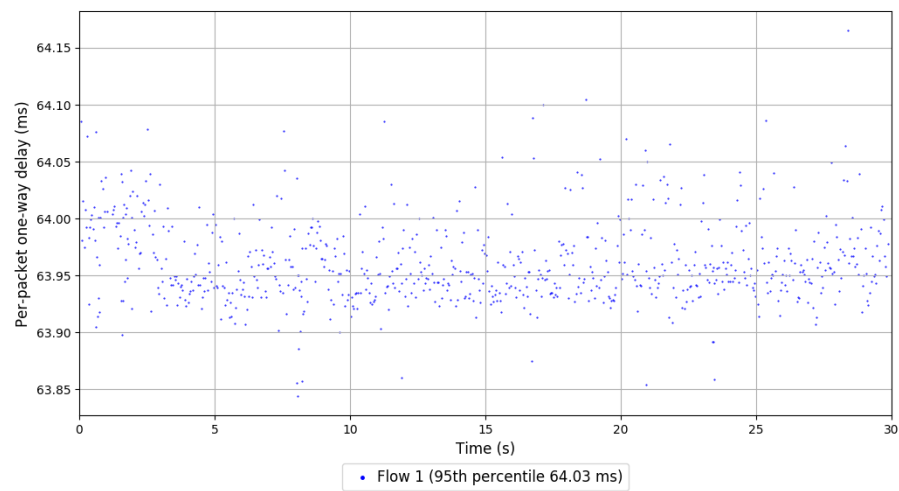
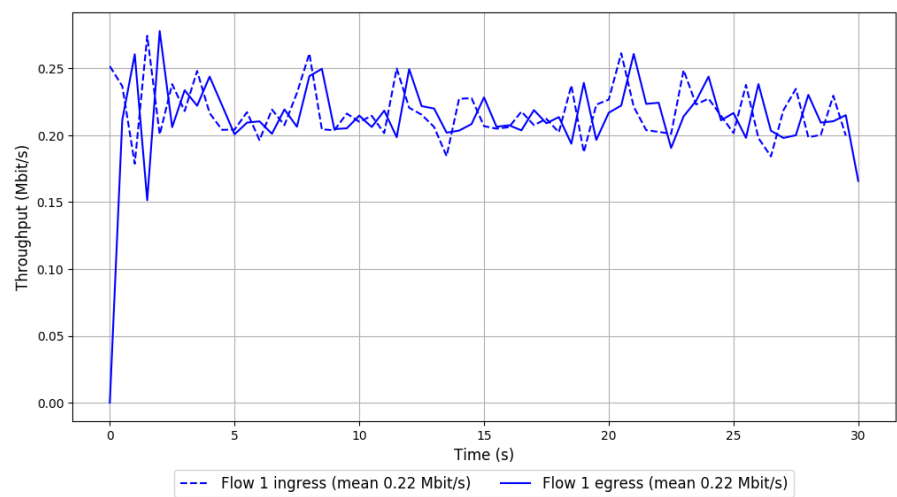


Run 5: Statistics of SCReAM

Start at: 2019-01-19 07:29:27  
End at: 2019-01-19 07:29:57  
Local clock offset: -0.048 ms  
Remote clock offset: -0.868 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 64.032 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 64.032 ms  
Loss rate: 0.51%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-01-19 05:06:26

End at: 2019-01-19 05:06:56

Local clock offset: -0.143 ms

Remote clock offset: 0.406 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 63.147 ms

Loss rate: 0.48%

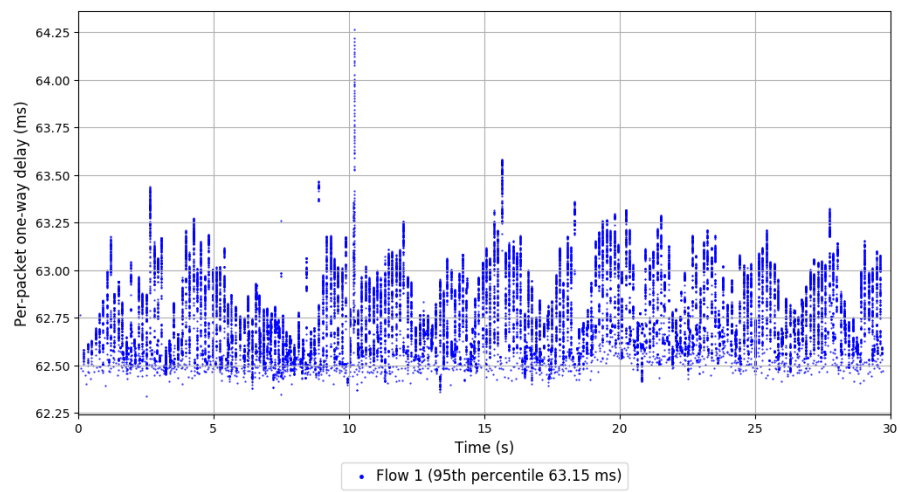
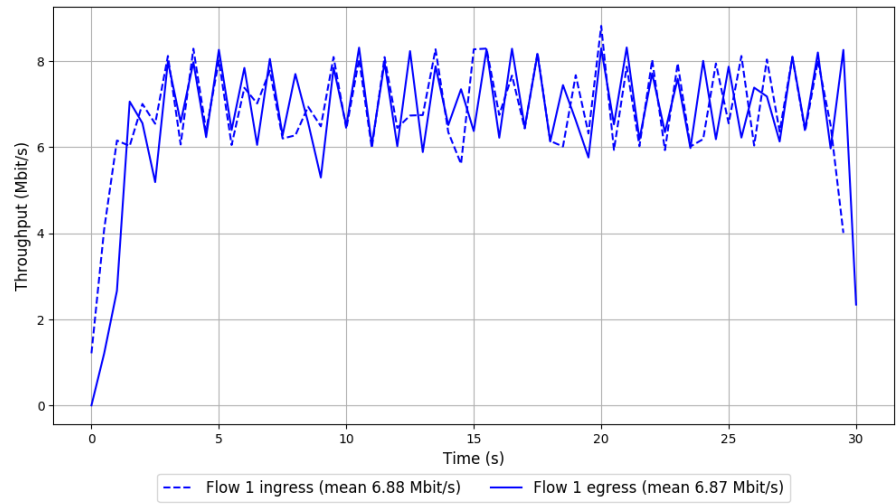
-- Flow 1:

Average throughput: 6.87 Mbit/s

95th percentile per-packet one-way delay: 63.147 ms

Loss rate: 0.48%

# Run 1: Report of Sprout — Data Link





Run 2: Statistics of Sprout

Start at: 2019-01-19 05:37:46

End at: 2019-01-19 05:38:16

Local clock offset: -0.047 ms

Remote clock offset: 0.134 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.31%

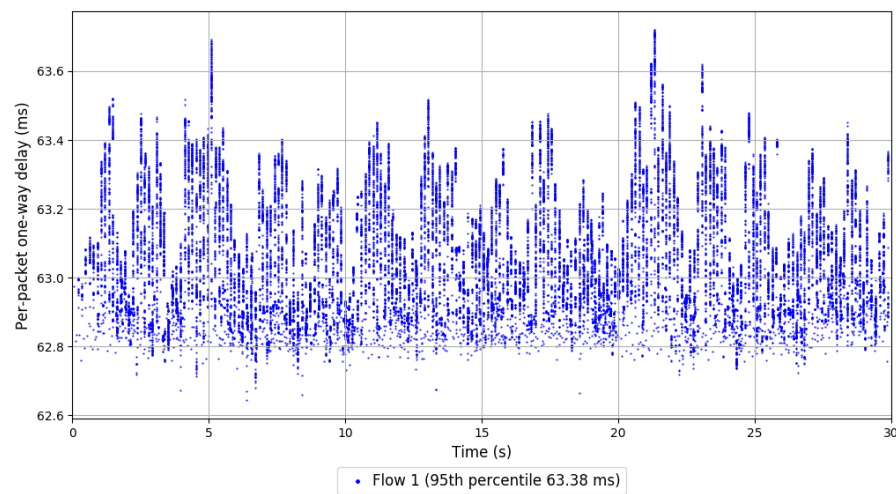
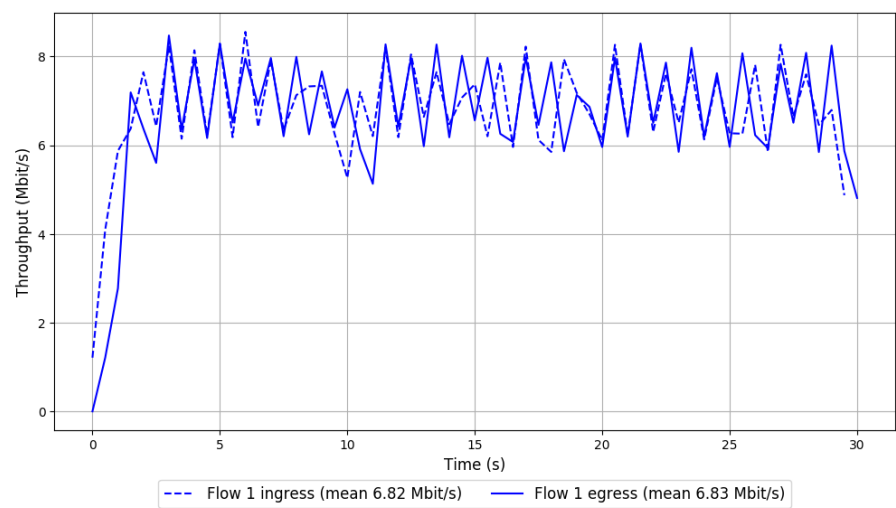
-- Flow 1:

Average throughput: 6.83 Mbit/s

95th percentile per-packet one-way delay: 63.383 ms

Loss rate: 0.31%

Run 2: Report of Sprout — Data Link

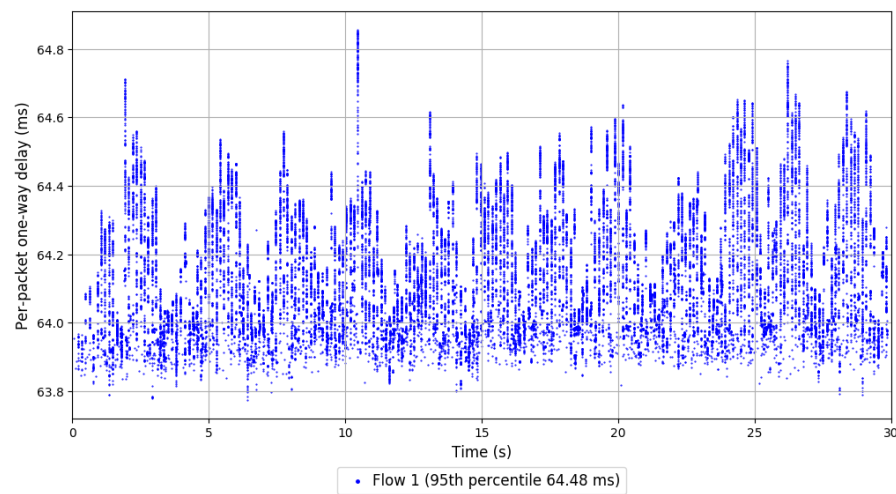
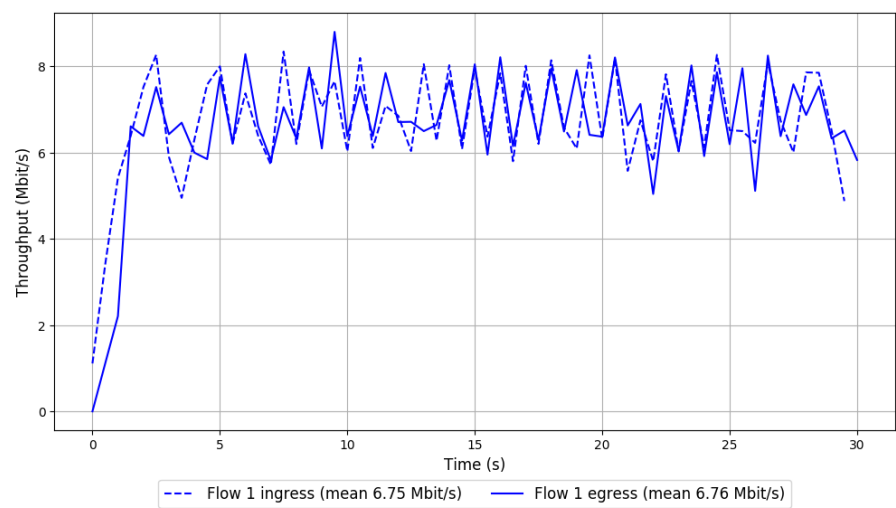


Run 3: Statistics of Sprout

Start at: 2019-01-19 06:09:06  
End at: 2019-01-19 06:09:36  
Local clock offset: -0.036 ms  
Remote clock offset: -0.848 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.76 Mbit/s  
95th percentile per-packet one-way delay: 64.478 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 6.76 Mbit/s  
95th percentile per-packet one-way delay: 64.478 ms  
Loss rate: 0.22%

Run 3: Report of Sprout — Data Link

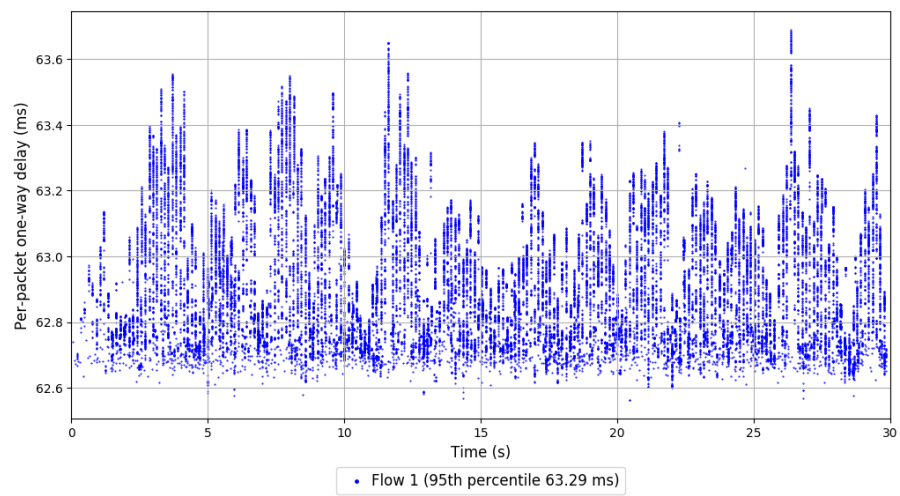
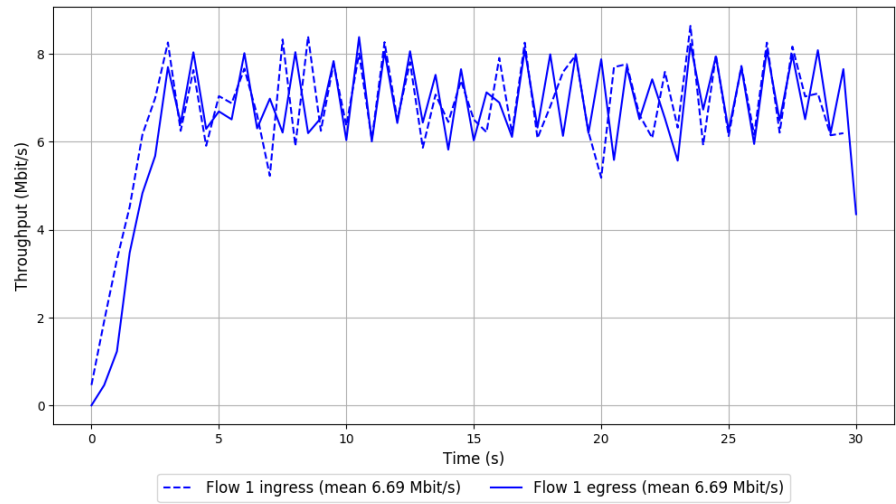


Run 4: Statistics of Sprout

Start at: 2019-01-19 06:40:18  
End at: 2019-01-19 06:40:48  
Local clock offset: -0.106 ms  
Remote clock offset: 0.576 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.69 Mbit/s  
95th percentile per-packet one-way delay: 63.294 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 6.69 Mbit/s  
95th percentile per-packet one-way delay: 63.294 ms  
Loss rate: 0.46%

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

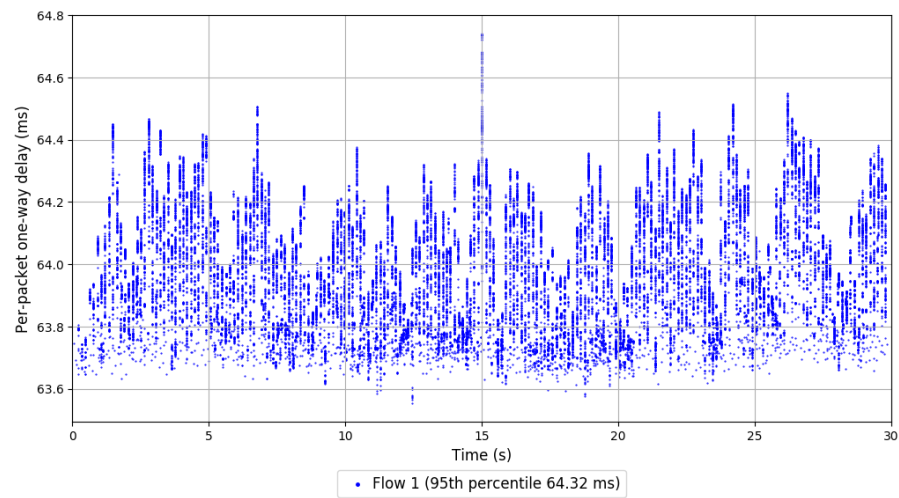
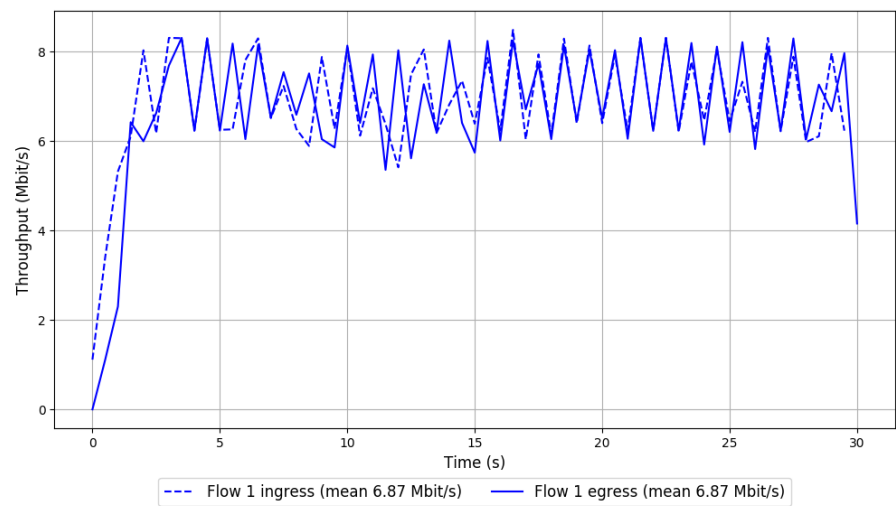


Run 5: Statistics of Sprout

Start at: 2019-01-19 07:11:49  
End at: 2019-01-19 07:12:19  
Local clock offset: -0.054 ms  
Remote clock offset: -0.914 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 6.87 Mbit/s  
95th percentile per-packet one-way delay: 64.321 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 6.87 Mbit/s  
95th percentile per-packet one-way delay: 64.321 ms  
Loss rate: 0.50%

Run 5: Report of Sprout — Data Link



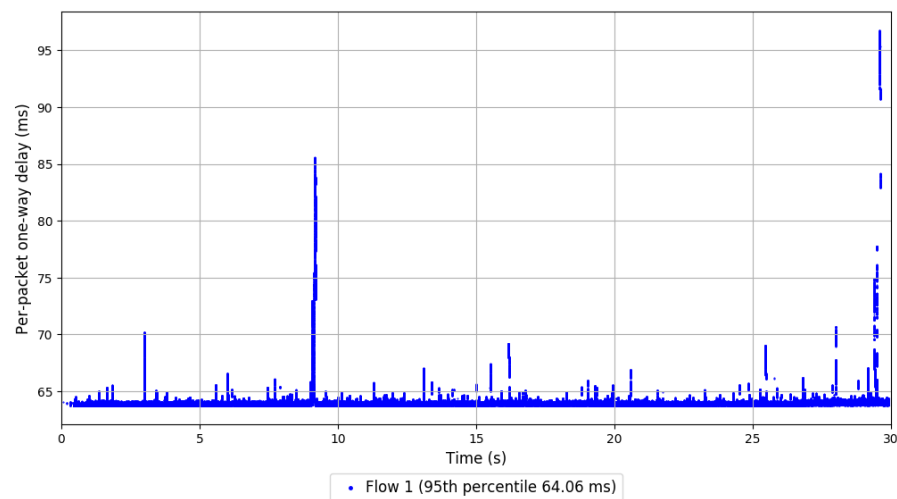
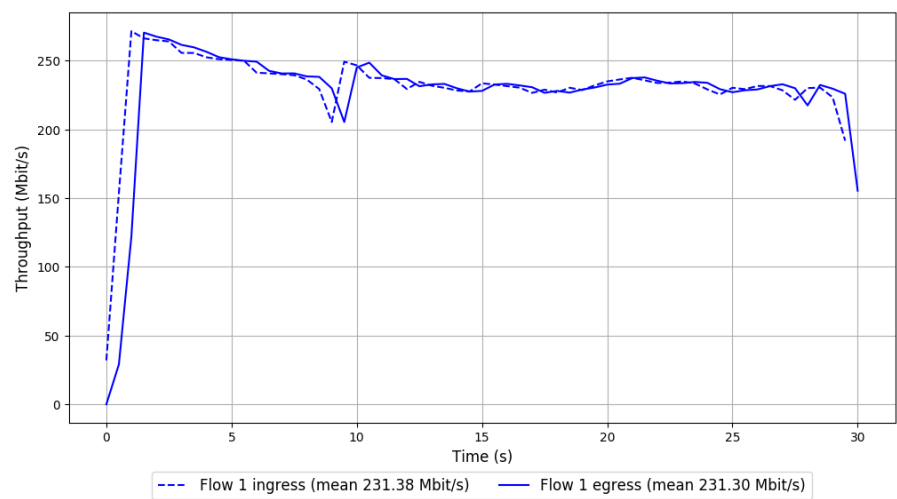


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-01-19 05:22:28
End at: 2019-01-19 05:22:58
Local clock offset: -0.129 ms
Remote clock offset: -0.853 ms

# Below is generated by plot.py at 2019-01-19 09:32:48
# Datalink statistics
-- Total of 1 flow:
Average throughput: 231.30 Mbit/s
95th percentile per-packet one-way delay: 64.055 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 231.30 Mbit/s
95th percentile per-packet one-way delay: 64.055 ms
Loss rate: 0.46%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-19 05:53:47

End at: 2019-01-19 05:54:17

Local clock offset: 0.016 ms

Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 229.74 Mbit/s

95th percentile per-packet one-way delay: 63.388 ms

Loss rate: 0.42%

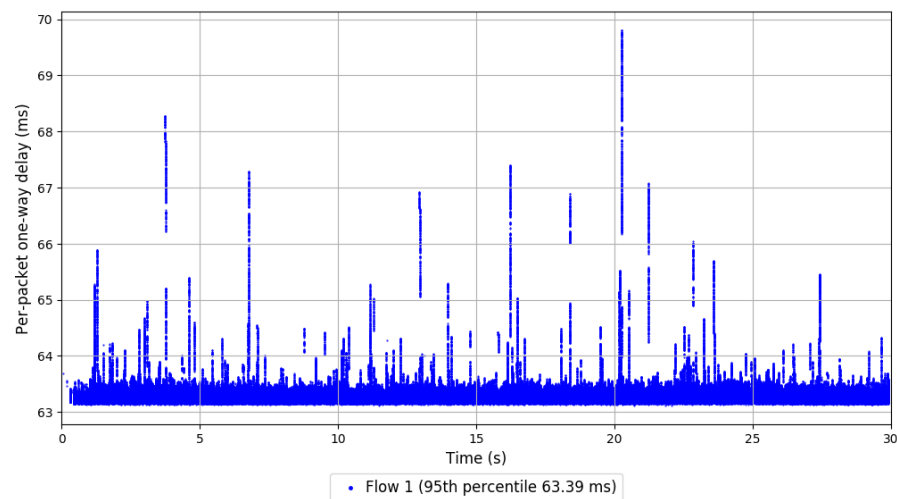
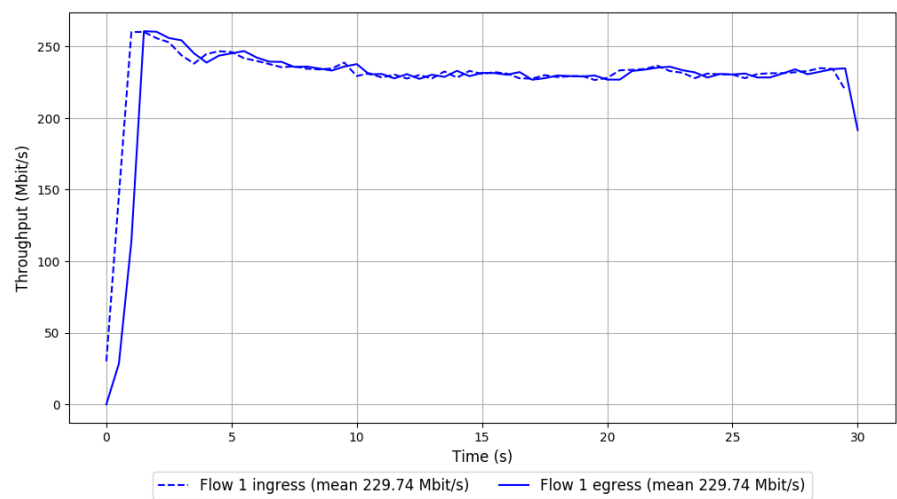
-- Flow 1:

Average throughput: 229.74 Mbit/s

95th percentile per-packet one-way delay: 63.388 ms

Loss rate: 0.42%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-19 06:25:07

End at: 2019-01-19 06:25:37

Local clock offset: -0.07 ms

Remote clock offset: -0.579 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 208.53 Mbit/s

95th percentile per-packet one-way delay: 65.308 ms

Loss rate: 0.47%

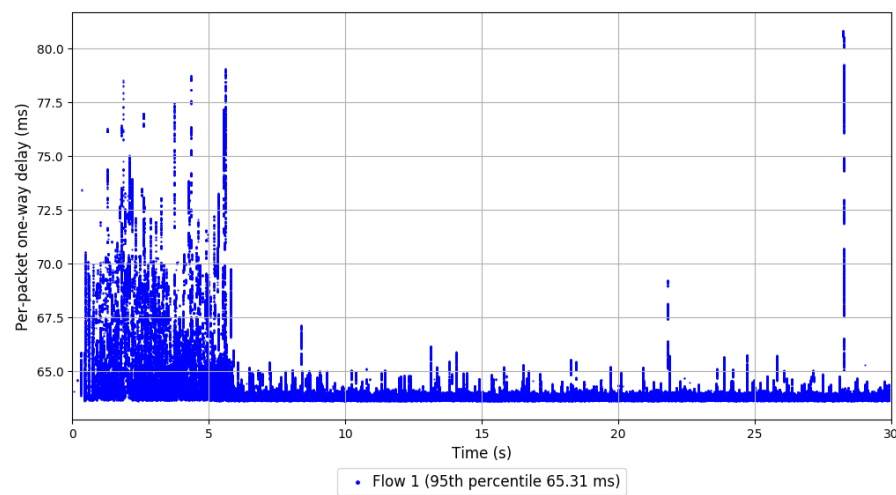
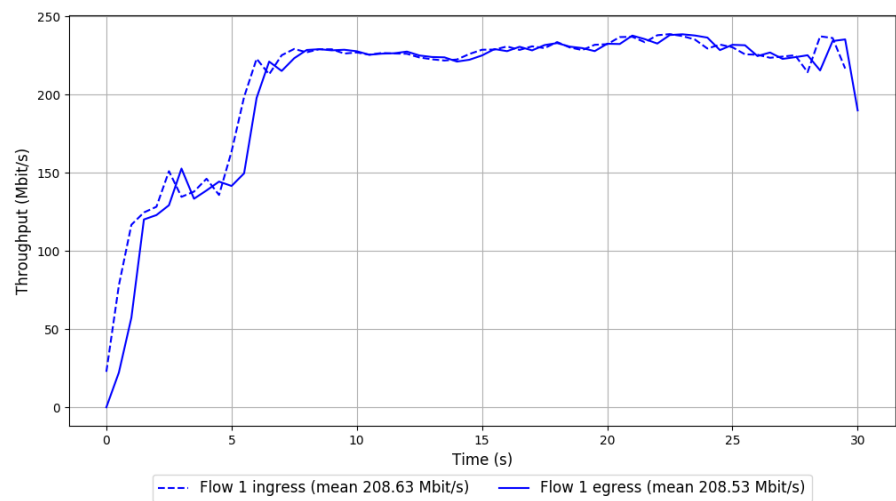
-- Flow 1:

Average throughput: 208.53 Mbit/s

95th percentile per-packet one-way delay: 65.308 ms

Loss rate: 0.47%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-01-19 06:56:24

End at: 2019-01-19 06:56:54

Local clock offset: -0.054 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 231.52 Mbit/s

95th percentile per-packet one-way delay: 63.046 ms

Loss rate: 0.42%

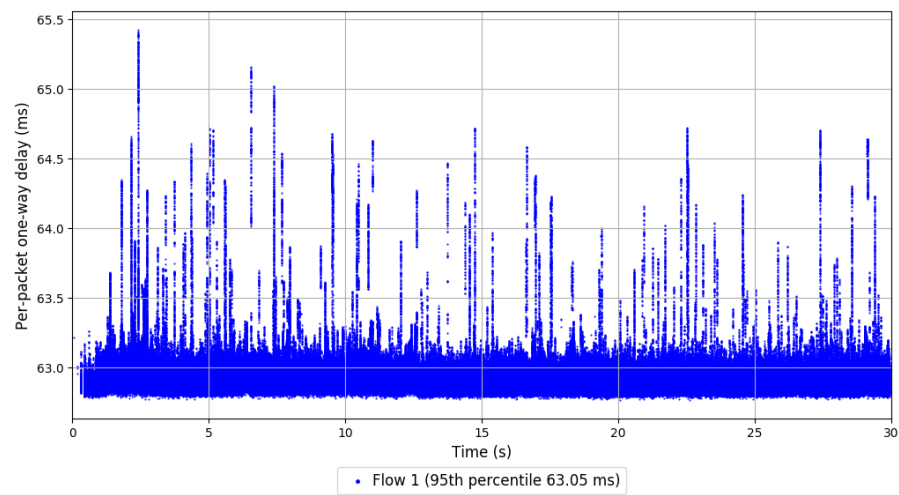
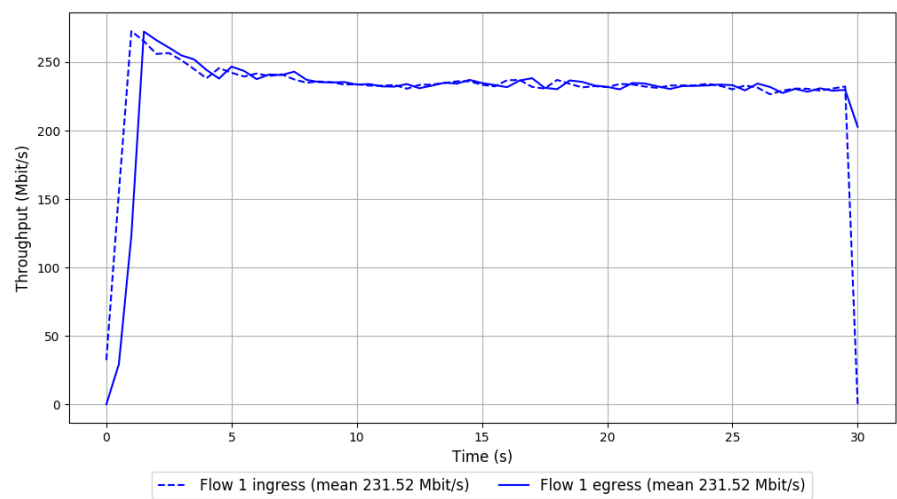
-- Flow 1:

Average throughput: 231.52 Mbit/s

95th percentile per-packet one-way delay: 63.046 ms

Loss rate: 0.42%

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





Run 5: Statistics of TaoVA-100x

Start at: 2019-01-19 07:27:58

End at: 2019-01-19 07:28:28

Local clock offset: -0.017 ms

Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-01-19 09:32:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 224.50 Mbit/s

95th percentile per-packet one-way delay: 63.215 ms

Loss rate: 0.44%

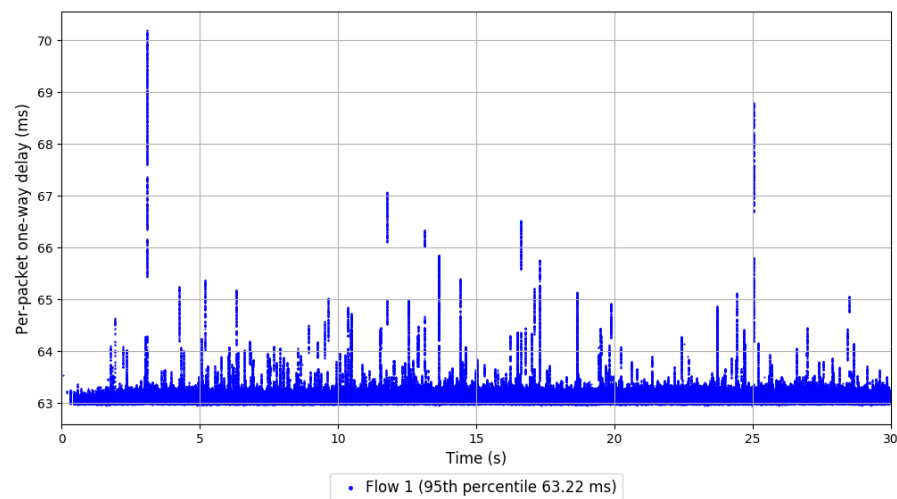
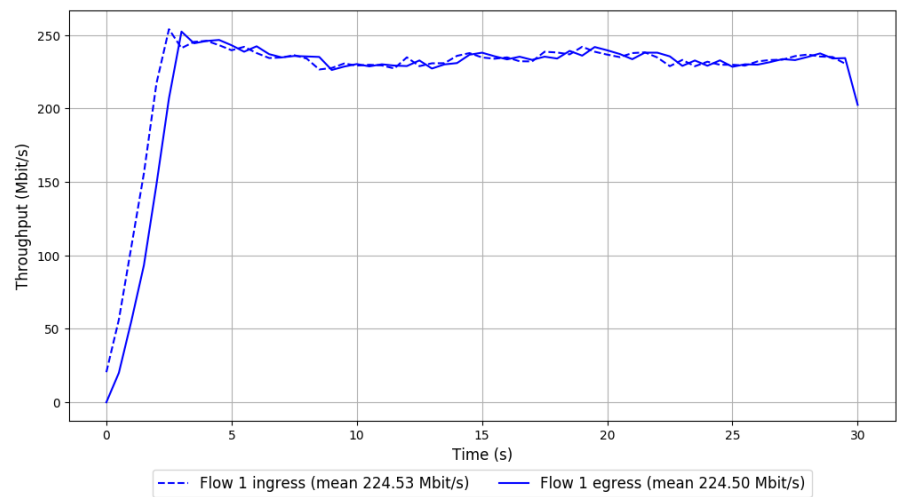
-- Flow 1:

Average throughput: 224.50 Mbit/s

95th percentile per-packet one-way delay: 63.215 ms

Loss rate: 0.44%

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

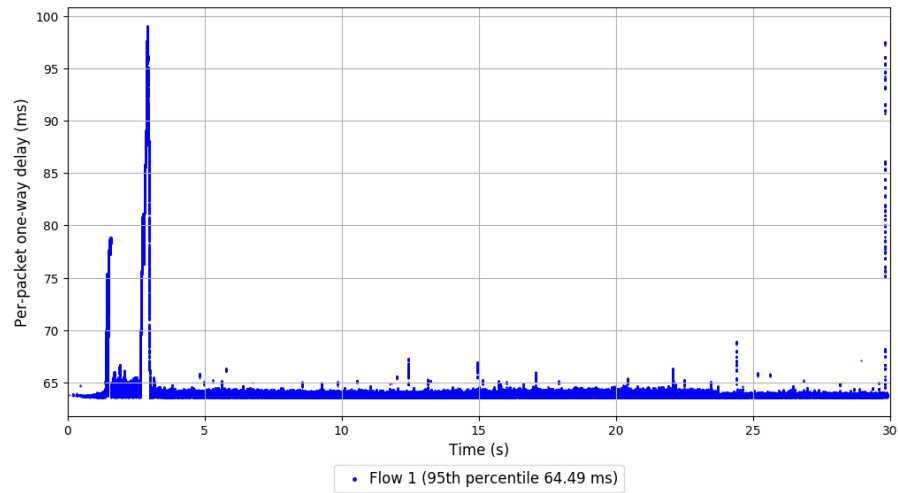
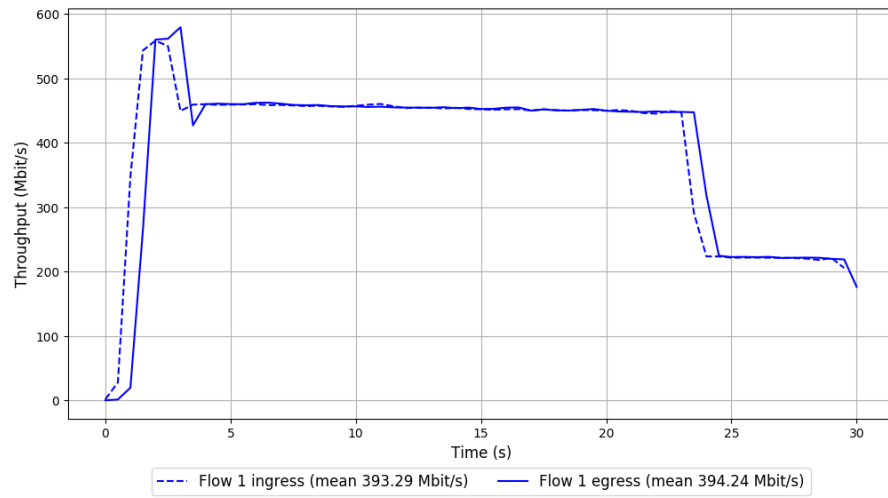


Run 1: Statistics of TCP Vegas

Start at: 2019-01-19 05:07:35  
End at: 2019-01-19 05:08:05  
Local clock offset: -0.122 ms  
Remote clock offset: -0.899 ms

# Below is generated by plot.py at 2019-01-19 09:32:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 394.24 Mbit/s  
95th percentile per-packet one-way delay: 64.494 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 394.24 Mbit/s  
95th percentile per-packet one-way delay: 64.494 ms  
Loss rate: 0.23%

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

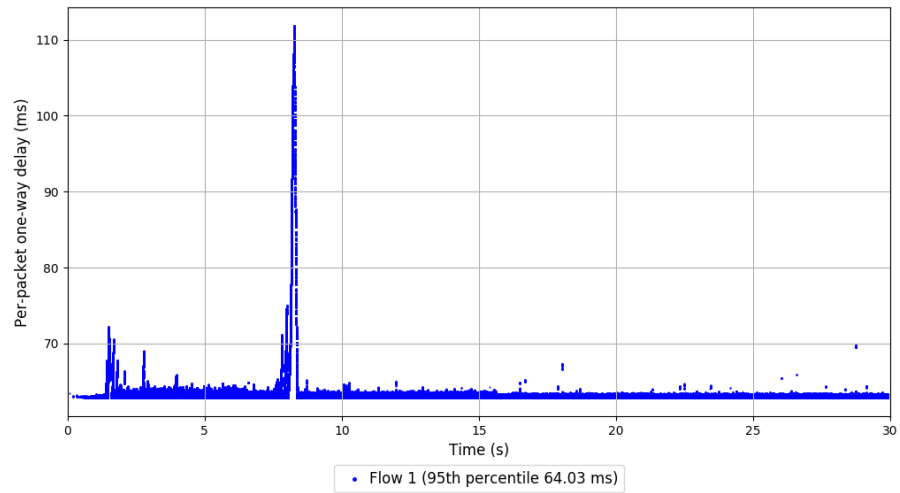
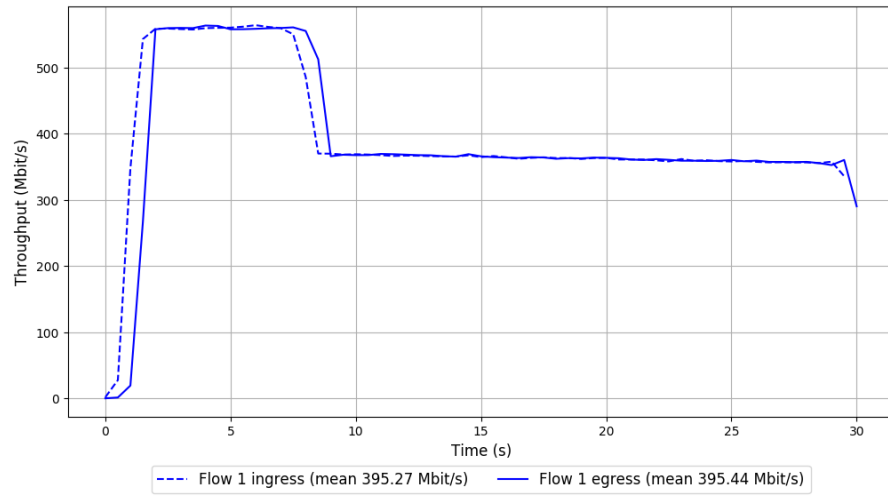


Run 2: Statistics of TCP Vegas

Start at: 2019-01-19 05:38:55  
End at: 2019-01-19 05:39:25  
Local clock offset: -0.098 ms  
Remote clock offset: 0.096 ms

# Below is generated by plot.py at 2019-01-19 09:38:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 395.44 Mbit/s  
95th percentile per-packet one-way delay: 64.025 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 395.44 Mbit/s  
95th percentile per-packet one-way delay: 64.025 ms  
Loss rate: 0.38%

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

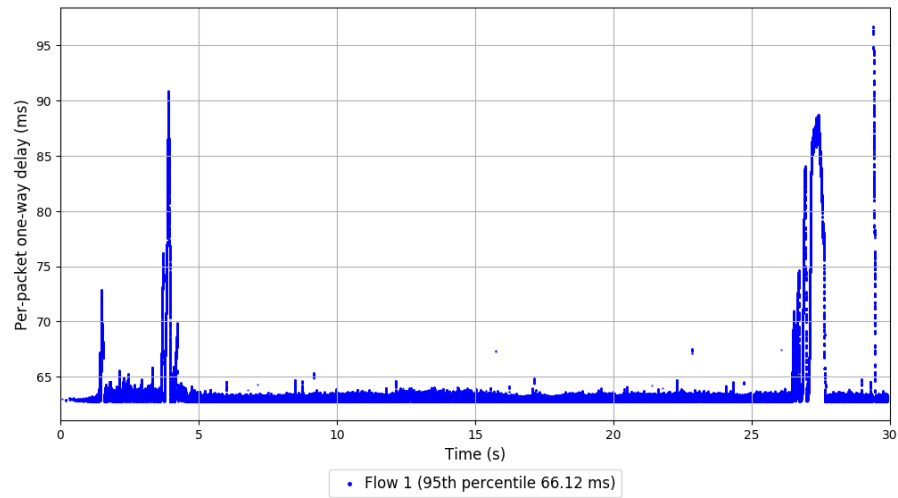
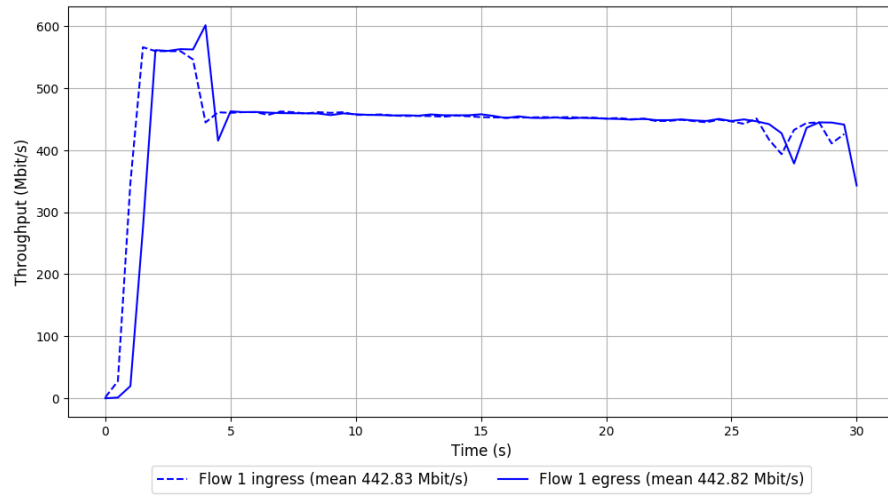


Run 3: Statistics of TCP Vegas

Start at: 2019-01-19 06:10:15  
End at: 2019-01-19 06:10:45  
Local clock offset: -0.032 ms  
Remote clock offset: -0.129 ms

# Below is generated by plot.py at 2019-01-19 09:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 442.82 Mbit/s  
95th percentile per-packet one-way delay: 66.118 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 442.82 Mbit/s  
95th percentile per-packet one-way delay: 66.118 ms  
Loss rate: 0.42%

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



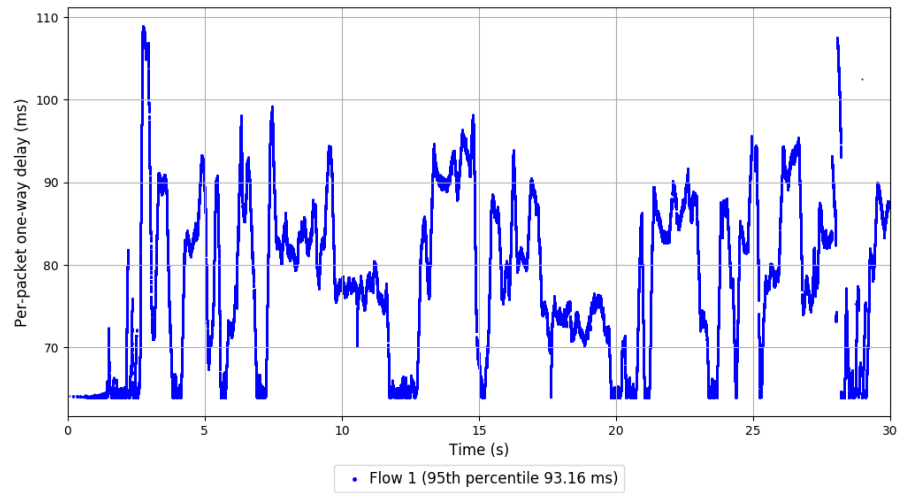
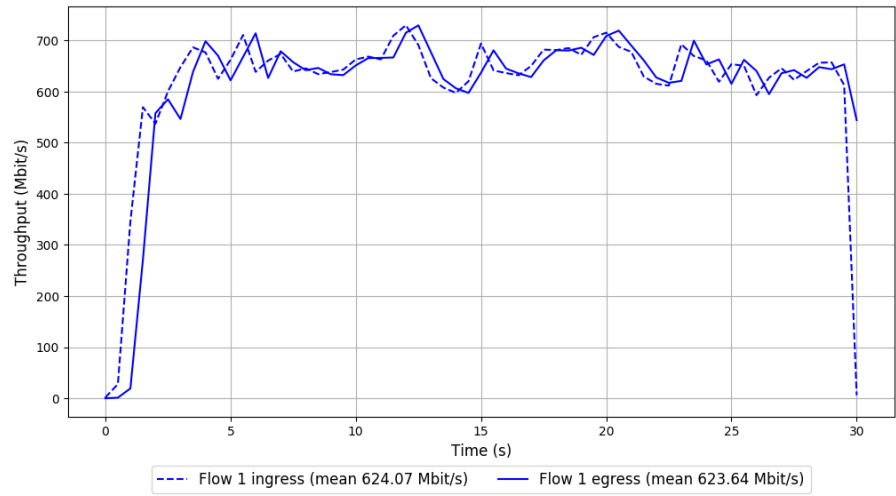


Run 4: Statistics of TCP Vegas

Start at: 2019-01-19 06:41:27  
End at: 2019-01-19 06:41:57  
Local clock offset: 0.021 ms  
Remote clock offset: -0.819 ms

# Below is generated by plot.py at 2019-01-19 09:43:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 623.64 Mbit/s  
95th percentile per-packet one-way delay: 93.157 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 623.64 Mbit/s  
95th percentile per-packet one-way delay: 93.157 ms  
Loss rate: 0.49%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-01-19 07:12:58

End at: 2019-01-19 07:13:28

Local clock offset: -0.061 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-01-19 09:44:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 664.73 Mbit/s

95th percentile per-packet one-way delay: 81.300 ms

Loss rate: 0.46%

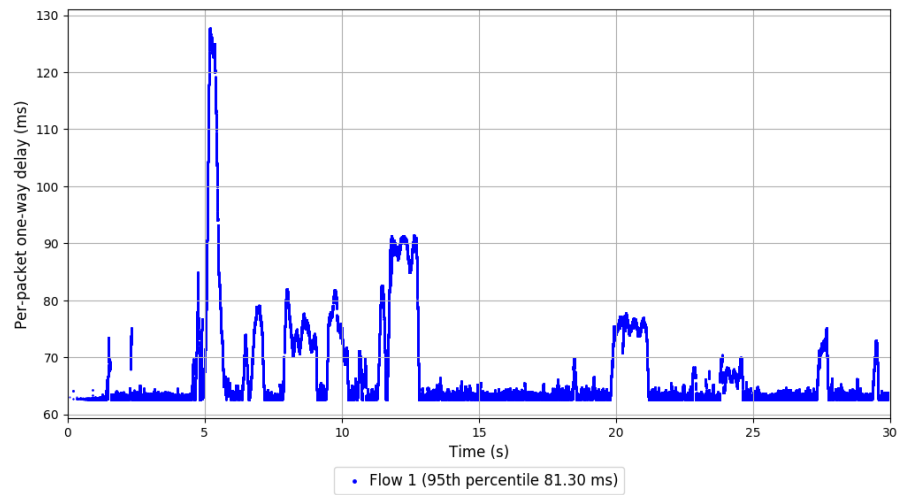
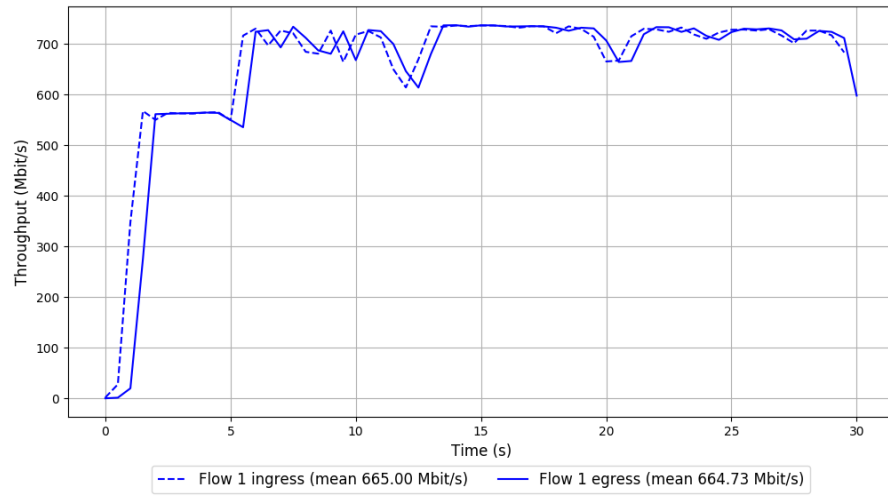
-- Flow 1:

Average throughput: 664.73 Mbit/s

95th percentile per-packet one-way delay: 81.300 ms

Loss rate: 0.46%

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



Run 1: Statistics of Verus

Start at: 2019-01-19 05:17:53

End at: 2019-01-19 05:18:23

Local clock offset: -0.102 ms

Remote clock offset: 0.464 ms

# Below is generated by plot.py at 2019-01-19 09:44:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 160.60 Mbit/s

95th percentile per-packet one-way delay: 201.707 ms

Loss rate: 8.49%

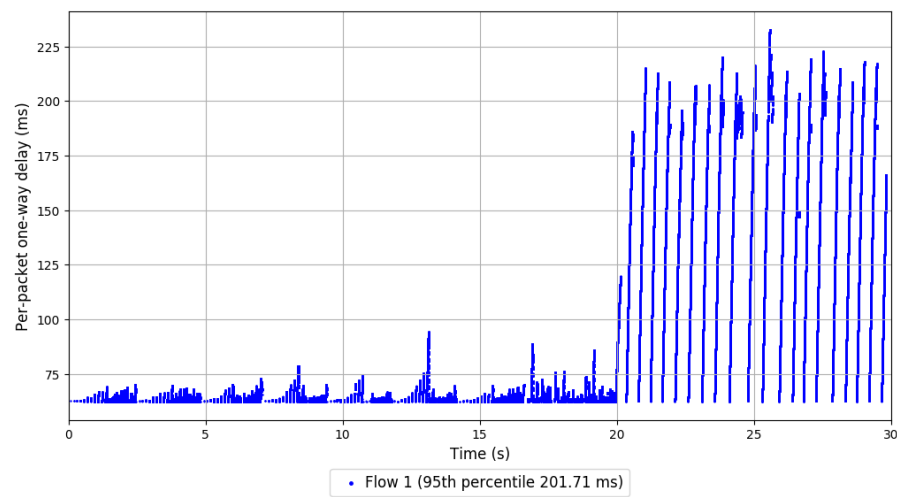
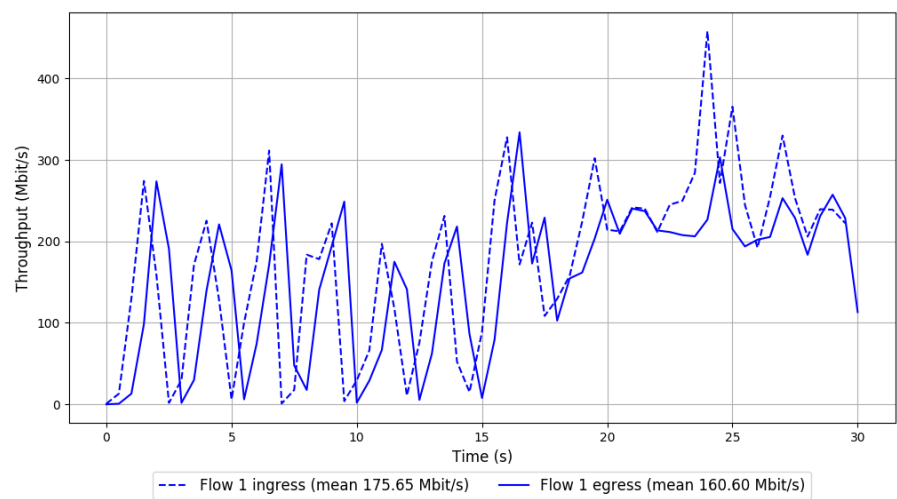
-- Flow 1:

Average throughput: 160.60 Mbit/s

95th percentile per-packet one-way delay: 201.707 ms

Loss rate: 8.49%

Run 1: Report of Verus — Data Link

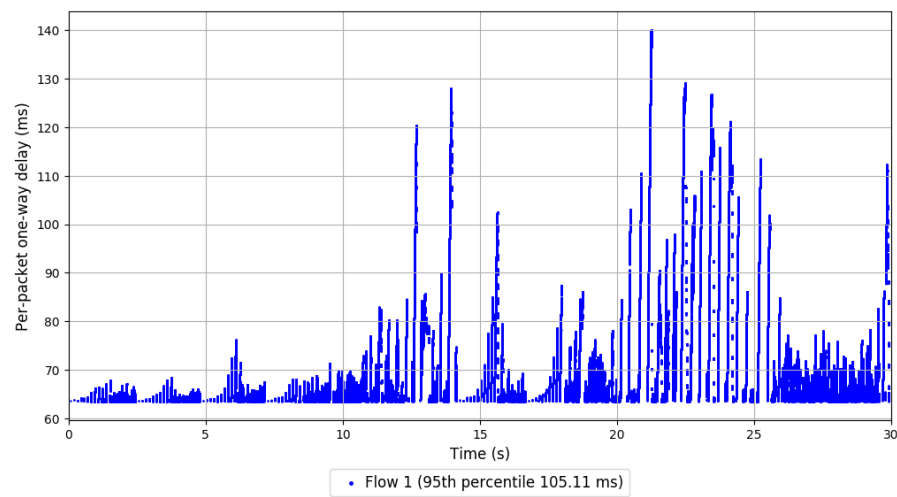
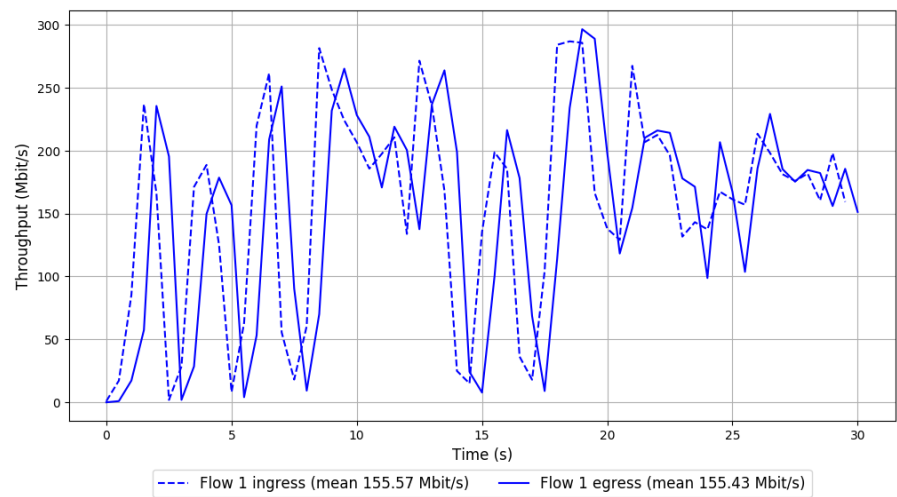


Run 2: Statistics of Verus

Start at: 2019-01-19 05:49:18  
End at: 2019-01-19 05:49:48  
Local clock offset: 0.003 ms  
Remote clock offset: -0.666 ms

# Below is generated by plot.py at 2019-01-19 09:44:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 155.43 Mbit/s  
95th percentile per-packet one-way delay: 105.105 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 155.43 Mbit/s  
95th percentile per-packet one-way delay: 105.105 ms  
Loss rate: 0.51%

Run 2: Report of Verus — Data Link





Run 3: Statistics of Verus

Start at: 2019-01-19 06:20:39

End at: 2019-01-19 06:21:09

Local clock offset: -0.077 ms

Remote clock offset: 0.429 ms

# Below is generated by plot.py at 2019-01-19 09:44:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.07 Mbit/s

95th percentile per-packet one-way delay: 131.500 ms

Loss rate: 0.55%

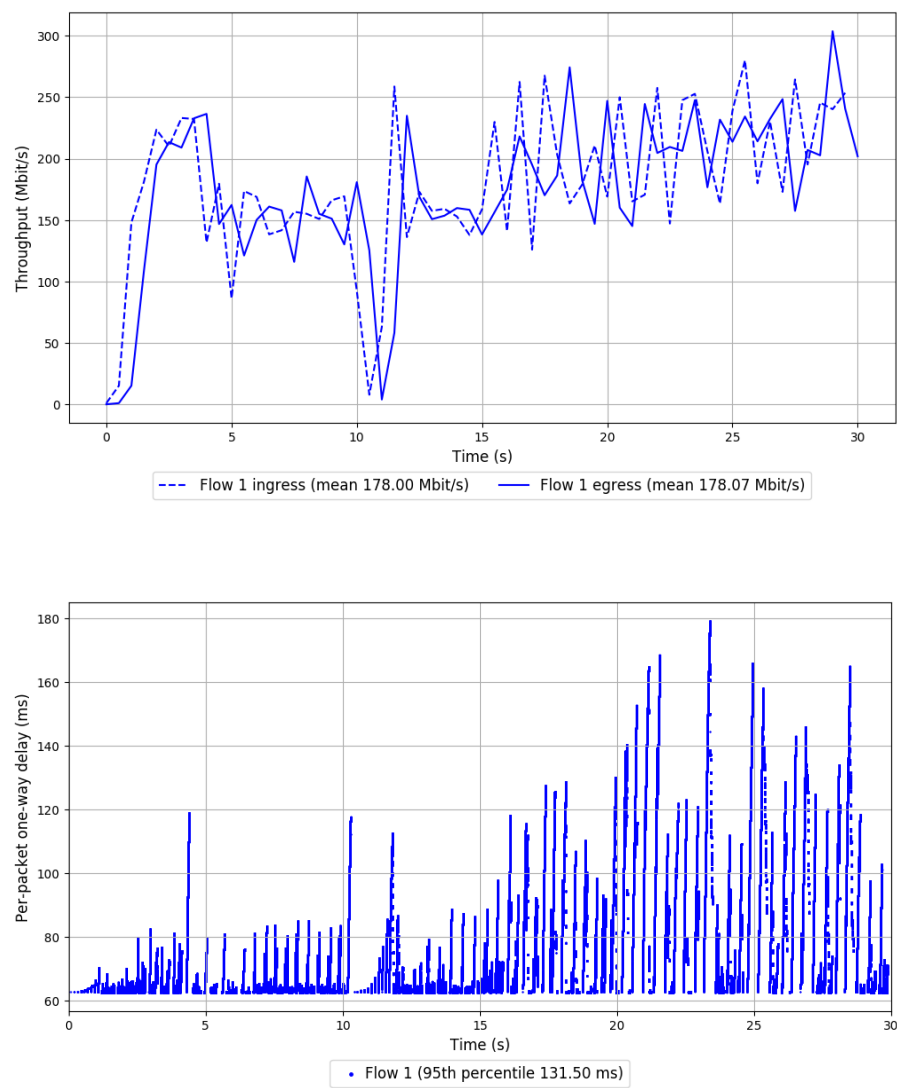
-- Flow 1:

Average throughput: 178.07 Mbit/s

95th percentile per-packet one-way delay: 131.500 ms

Loss rate: 0.55%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-01-19 06:52:00

End at: 2019-01-19 06:52:30

Local clock offset: -0.023 ms

Remote clock offset: -1.53 ms

# Below is generated by plot.py at 2019-01-19 09:44:41

# Datalink statistics

-- Total of 1 flow:

Average throughput: 178.48 Mbit/s

95th percentile per-packet one-way delay: 150.818 ms

Loss rate: 0.21%

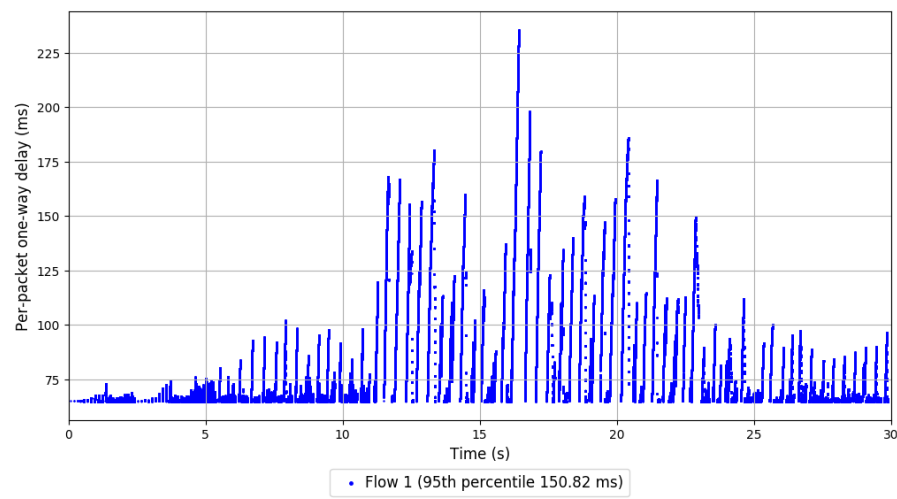
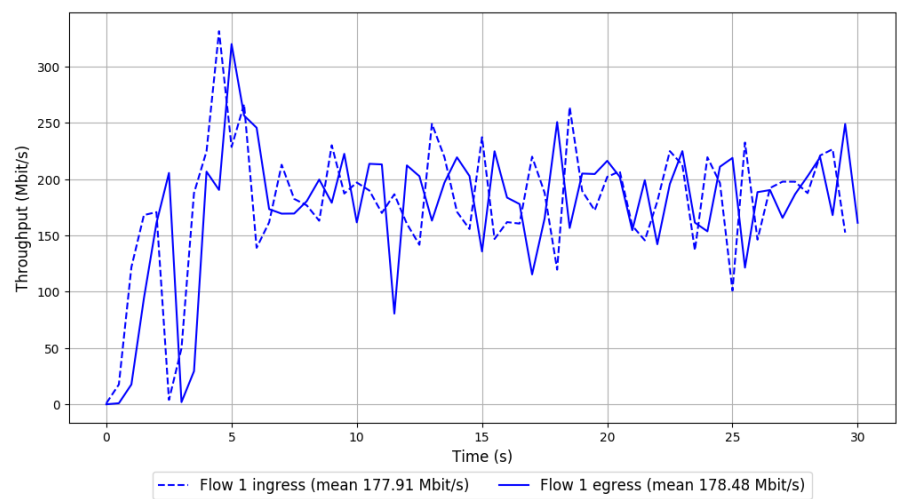
-- Flow 1:

Average throughput: 178.48 Mbit/s

95th percentile per-packet one-way delay: 150.818 ms

Loss rate: 0.21%

Run 4: Report of Verus — Data Link

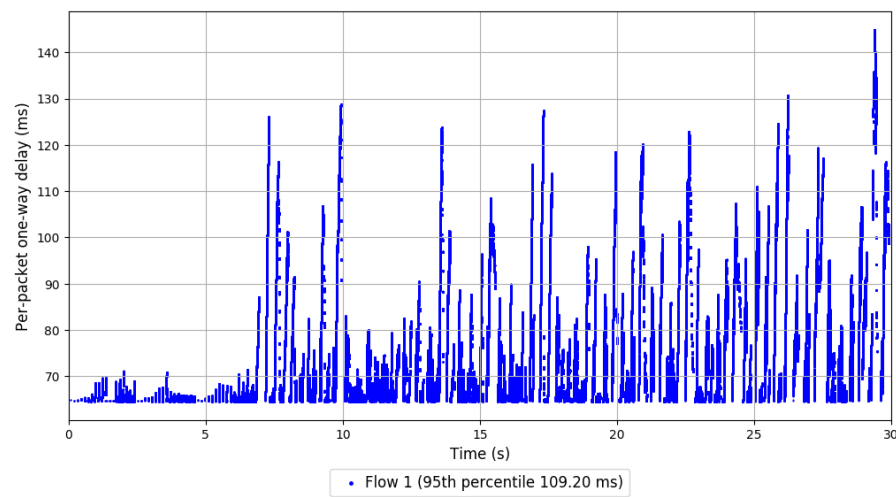
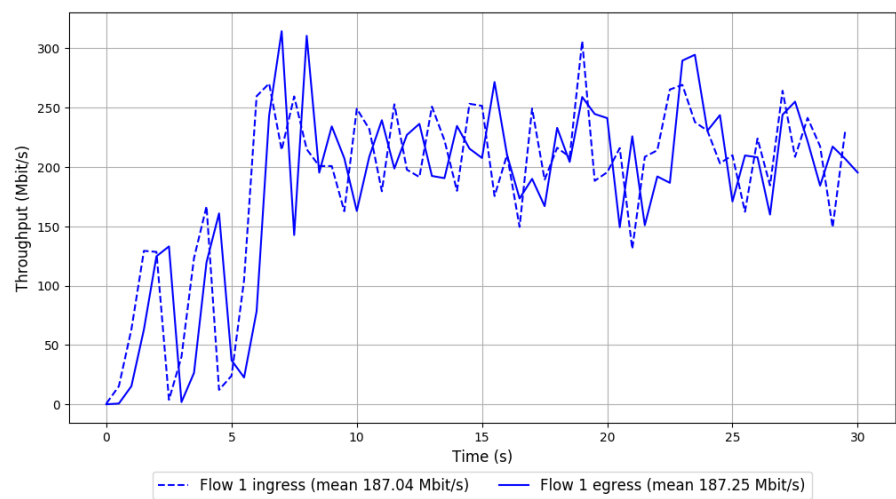


Run 5: Statistics of Verus

Start at: 2019-01-19 07:23:30  
End at: 2019-01-19 07:24:00  
Local clock offset: -0.028 ms  
Remote clock offset: -1.617 ms

# Below is generated by plot.py at 2019-01-19 09:44:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 187.25 Mbit/s  
95th percentile per-packet one-way delay: 109.198 ms  
Loss rate: 0.31%  
-- Flow 1:  
Average throughput: 187.25 Mbit/s  
95th percentile per-packet one-way delay: 109.198 ms  
Loss rate: 0.31%

Run 5: Report of Verus — Data Link

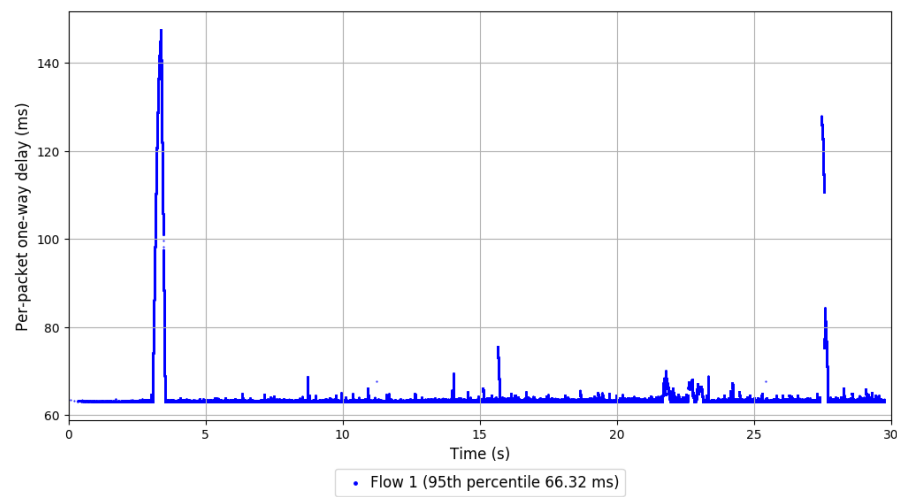
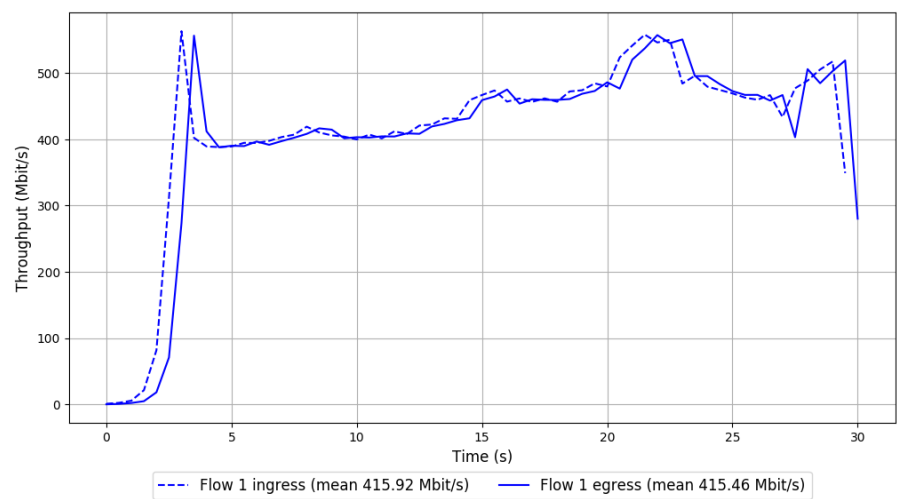


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-19 05:31:47  
End at: 2019-01-19 05:32:17  
Local clock offset: -0.111 ms  
Remote clock offset: -0.215 ms

# Below is generated by plot.py at 2019-01-19 09:45:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 415.46 Mbit/s  
95th percentile per-packet one-way delay: 66.320 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 415.46 Mbit/s  
95th percentile per-packet one-way delay: 66.320 ms  
Loss rate: 0.54%

Run 1: Report of PCC-Vivace — Data Link





Run 2: Statistics of PCC-Vivace

Start at: 2019-01-19 06:03:06

End at: 2019-01-19 06:03:36

Local clock offset: 0.007 ms

Remote clock offset: 0.596 ms

# Below is generated by plot.py at 2019-01-19 09:45:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 419.65 Mbit/s

95th percentile per-packet one-way delay: 75.064 ms

Loss rate: 0.46%

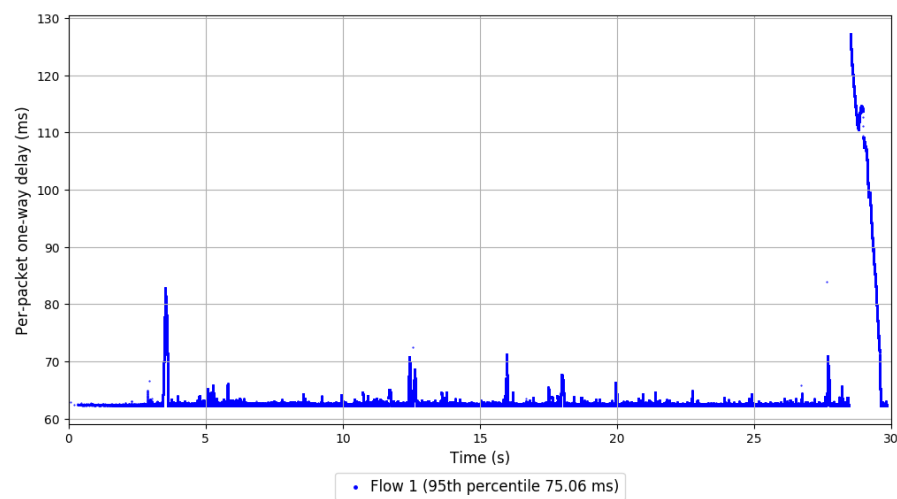
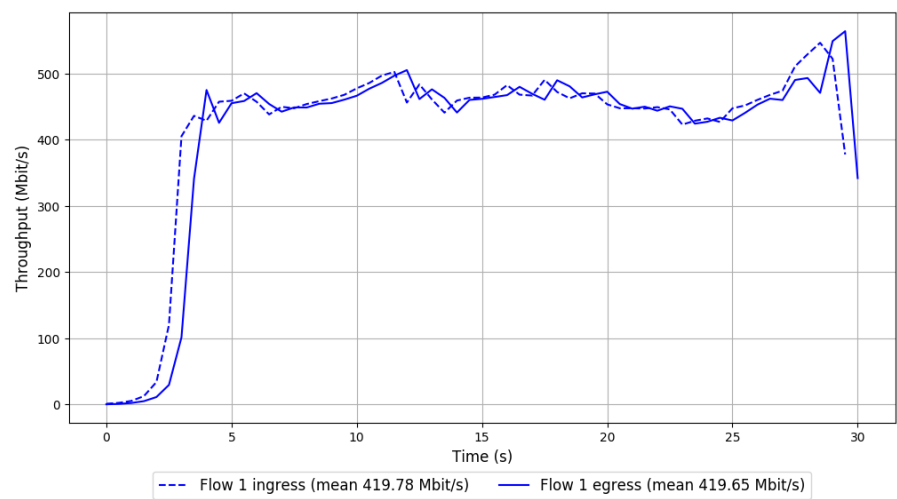
-- Flow 1:

Average throughput: 419.65 Mbit/s

95th percentile per-packet one-way delay: 75.064 ms

Loss rate: 0.46%

Run 2: Report of PCC-Vivace — Data Link

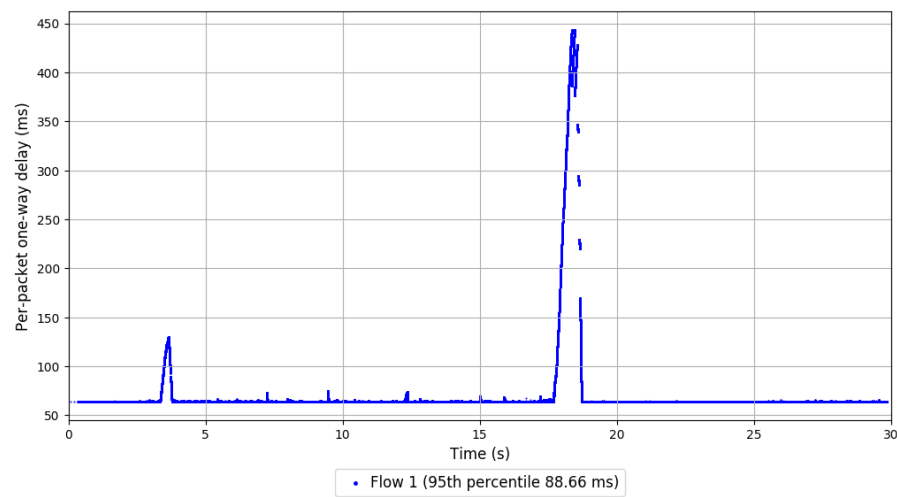
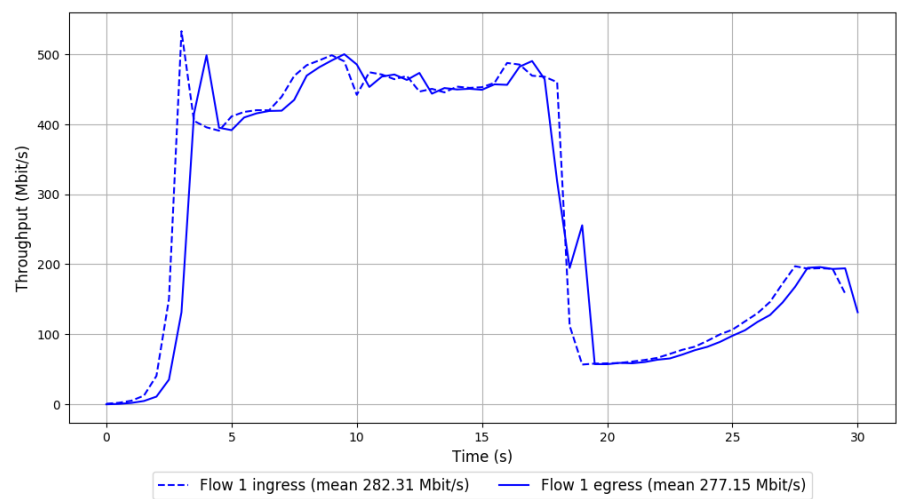


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-19 06:34:20  
End at: 2019-01-19 06:34:50  
Local clock offset: -0.129 ms  
Remote clock offset: -0.831 ms

# Below is generated by plot.py at 2019-01-19 09:45:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 277.15 Mbit/s  
95th percentile per-packet one-way delay: 88.657 ms  
Loss rate: 2.24%  
-- Flow 1:  
Average throughput: 277.15 Mbit/s  
95th percentile per-packet one-way delay: 88.657 ms  
Loss rate: 2.24%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-01-19 07:05:44

End at: 2019-01-19 07:06:14

Local clock offset: -0.08 ms

Remote clock offset: -0.821 ms

# Below is generated by plot.py at 2019-01-19 09:45:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 422.87 Mbit/s

95th percentile per-packet one-way delay: 64.806 ms

Loss rate: 0.48%

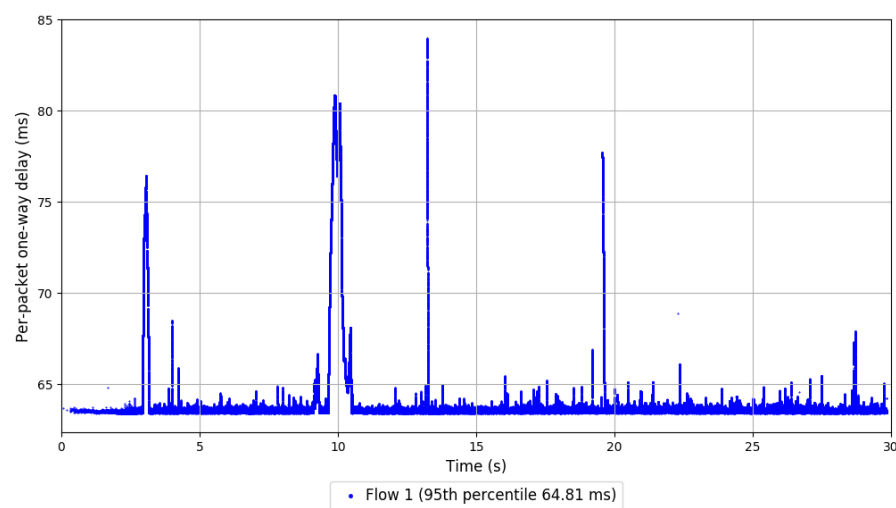
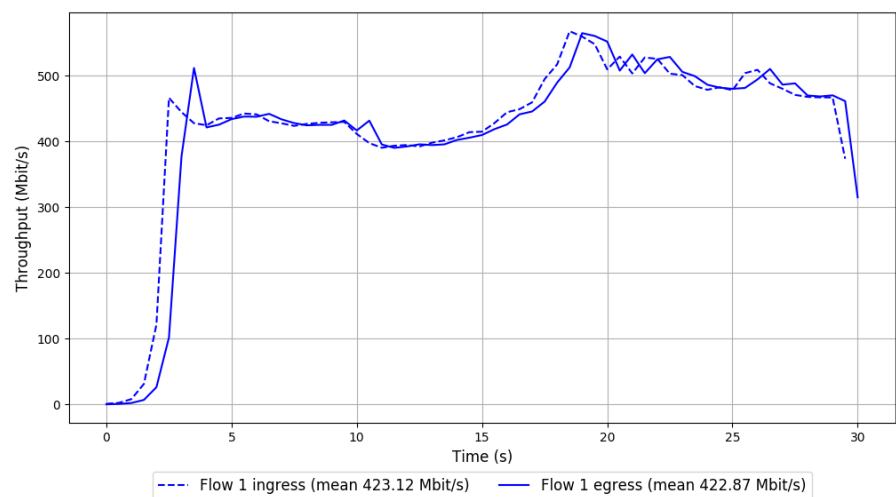
-- Flow 1:

Average throughput: 422.87 Mbit/s

95th percentile per-packet one-way delay: 64.806 ms

Loss rate: 0.48%

Run 4: Report of PCC-Vivace — Data Link

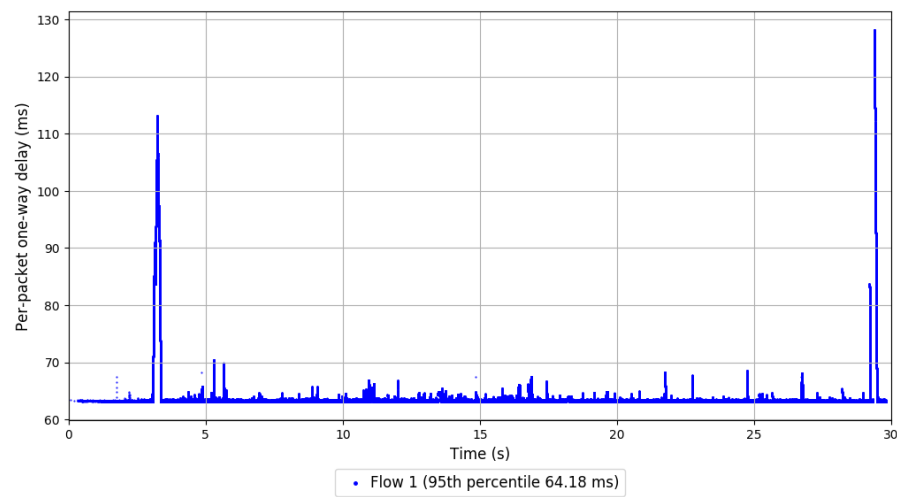
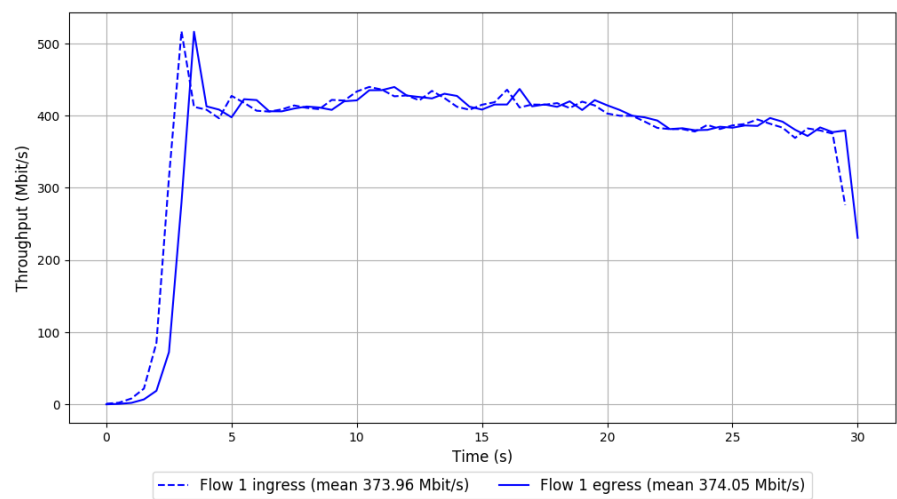


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-19 07:37:16  
End at: 2019-01-19 07:37:46  
Local clock offset: -0.033 ms  
Remote clock offset: -0.483 ms

# Below is generated by plot.py at 2019-01-19 09:45:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 374.05 Mbit/s  
95th percentile per-packet one-way delay: 64.178 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 374.05 Mbit/s  
95th percentile per-packet one-way delay: 64.178 ms  
Loss rate: 0.40%

Run 5: Report of PCC-Vivace — Data Link



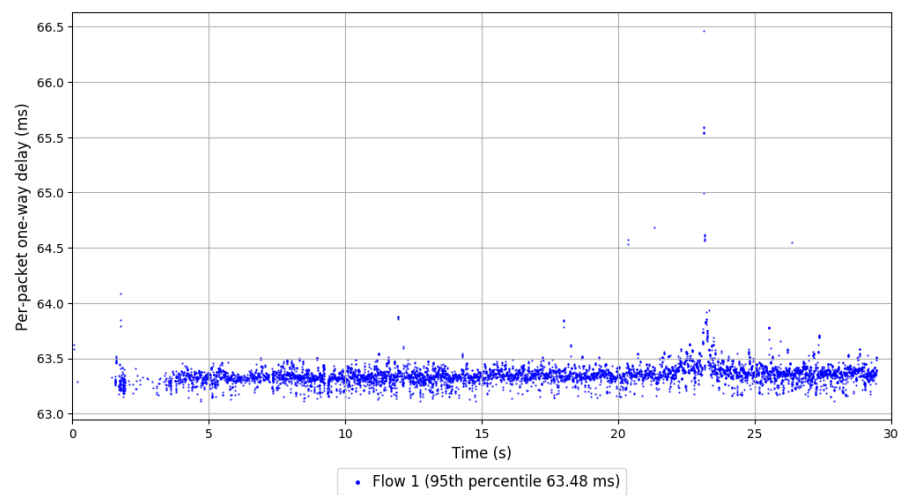
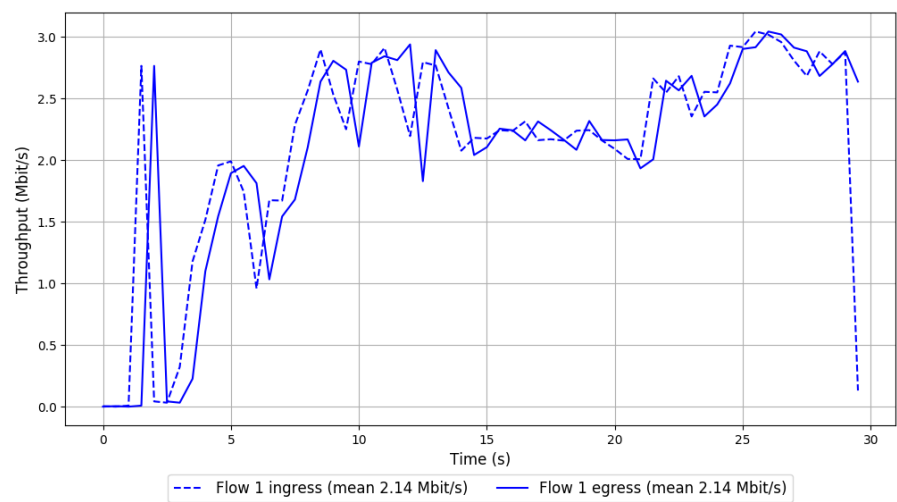


Run 1: Statistics of WebRTC media

Start at: 2019-01-19 05:03:38  
End at: 2019-01-19 05:04:08  
Local clock offset: -0.131 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-01-19 09:45:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 63.482 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 2.14 Mbit/s  
95th percentile per-packet one-way delay: 63.482 ms  
Loss rate: 0.56%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-01-19 05:35:02

End at: 2019-01-19 05:35:32

Local clock offset: -0.086 ms

Remote clock offset: 0.664 ms

# Below is generated by plot.py at 2019-01-19 09:45:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.585 ms

Loss rate: 0.00%

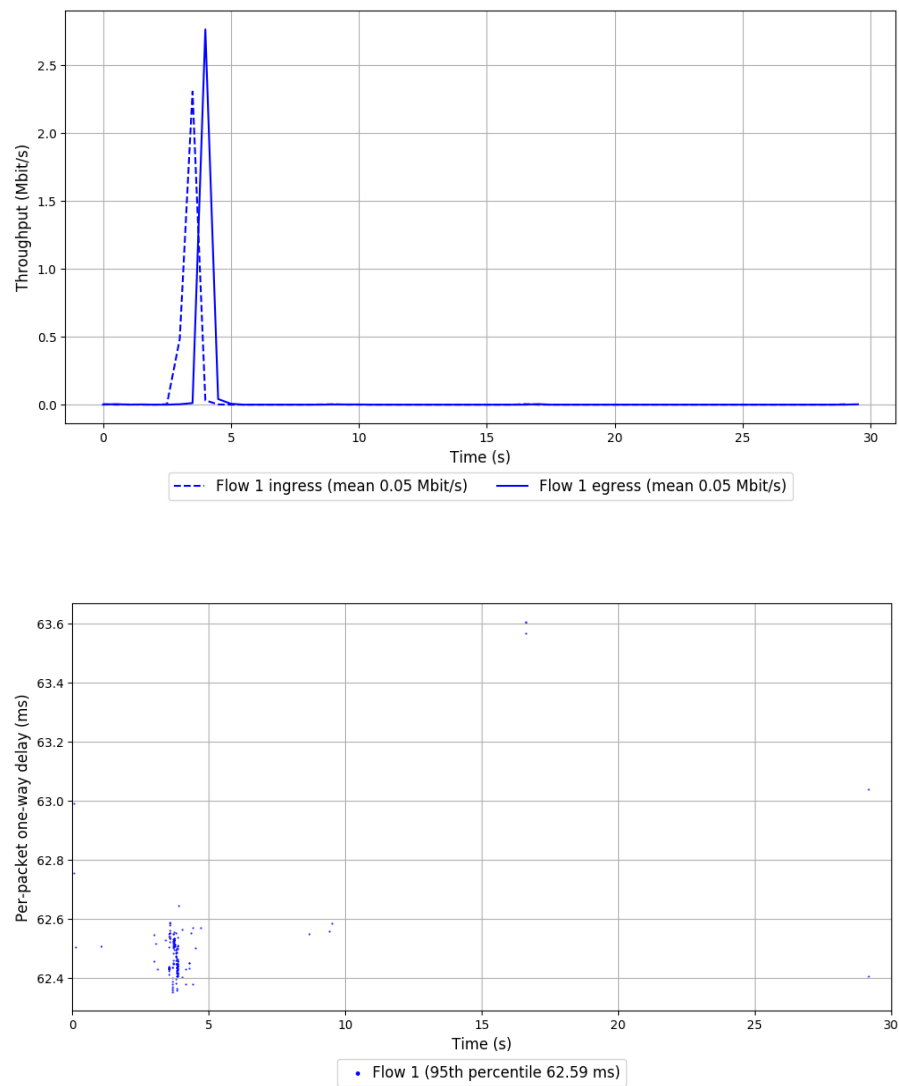
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.585 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



Run 3: Statistics of WebRTC media

Start at: 2019-01-19 06:06:22

End at: 2019-01-19 06:06:52

Local clock offset: -0.05 ms

Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2019-01-19 09:45:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.902 ms

Loss rate: 0.00%

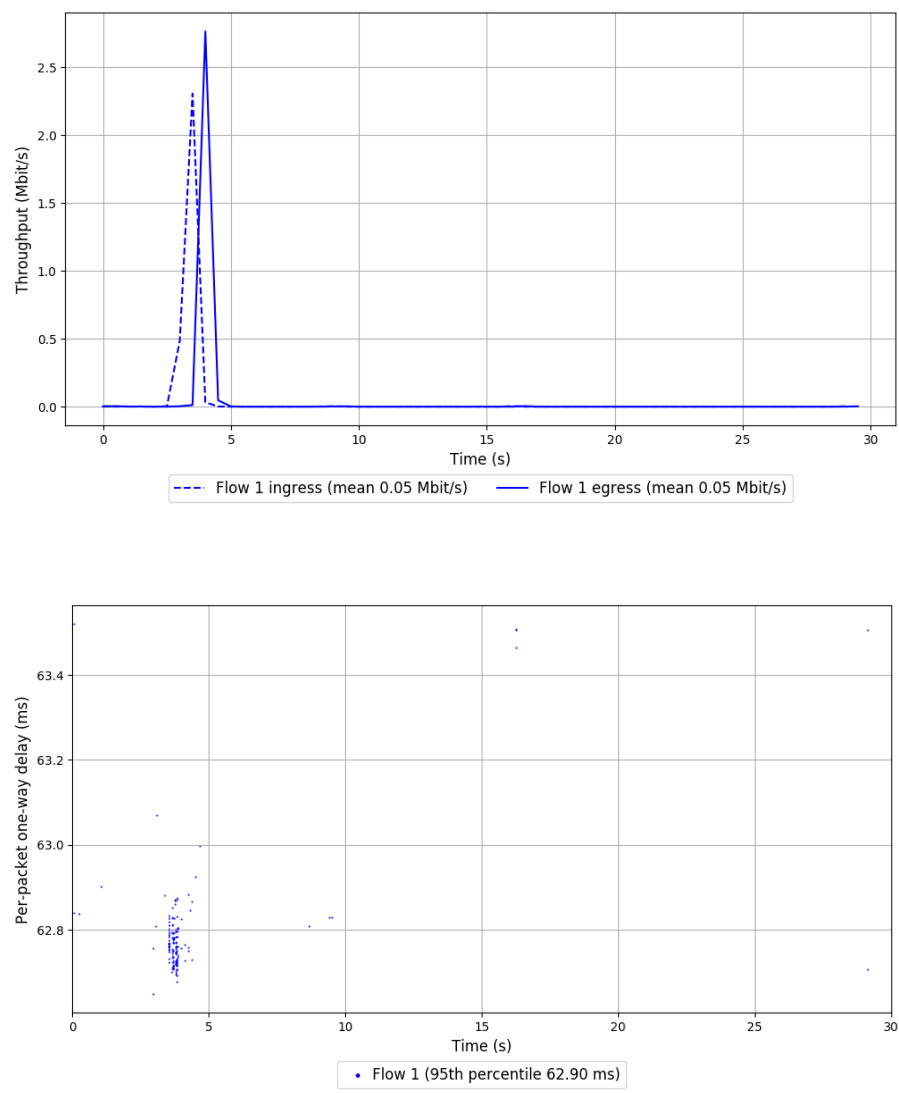
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.902 ms

Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-01-19 06:37:29

End at: 2019-01-19 06:37:59

Local clock offset: -0.102 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-01-19 09:45:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.431 ms

Loss rate: 0.00%

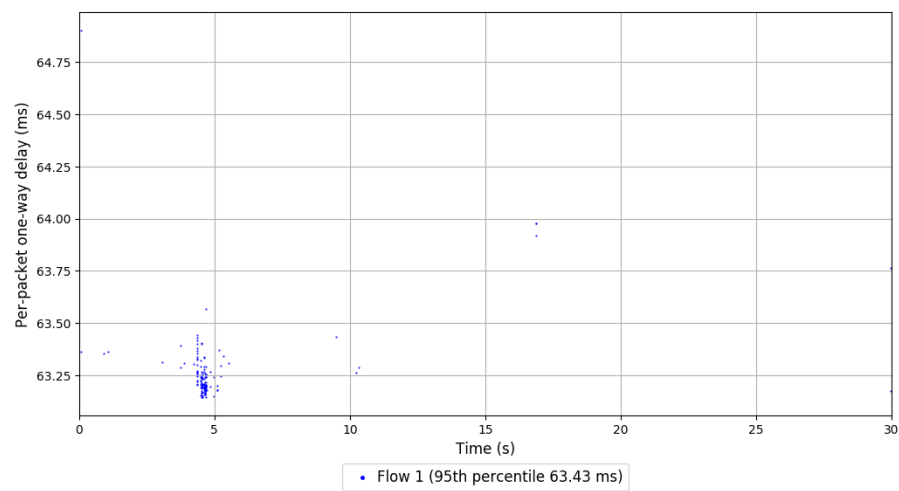
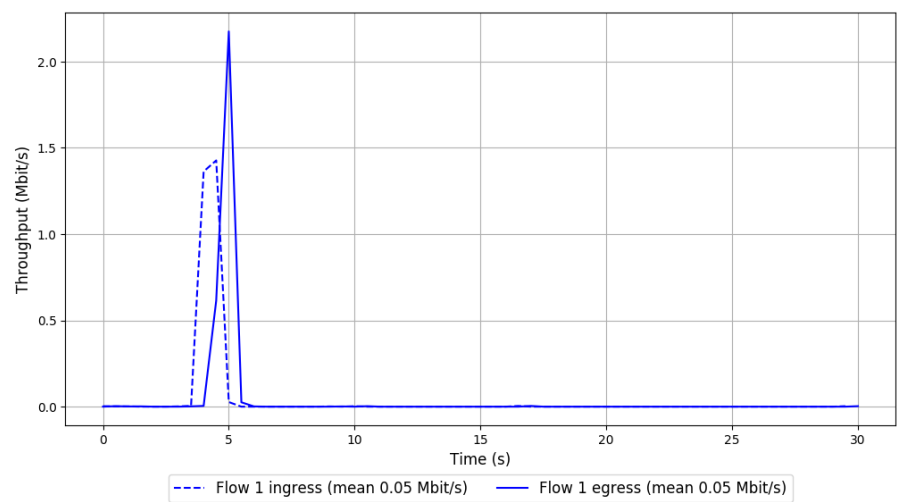
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.431 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link





Run 5: Statistics of WebRTC media

Start at: 2019-01-19 07:09:02  
End at: 2019-01-19 07:09:32  
Local clock offset: -0.035 ms  
Remote clock offset: -1.364 ms

# Below is generated by plot.py at 2019-01-19 09:45:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 64.632 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 64.632 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

