

## Pantheon Report

Generated at 2019-06-27 05:19:15 (UTC).

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

Repeated the test of 22 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:

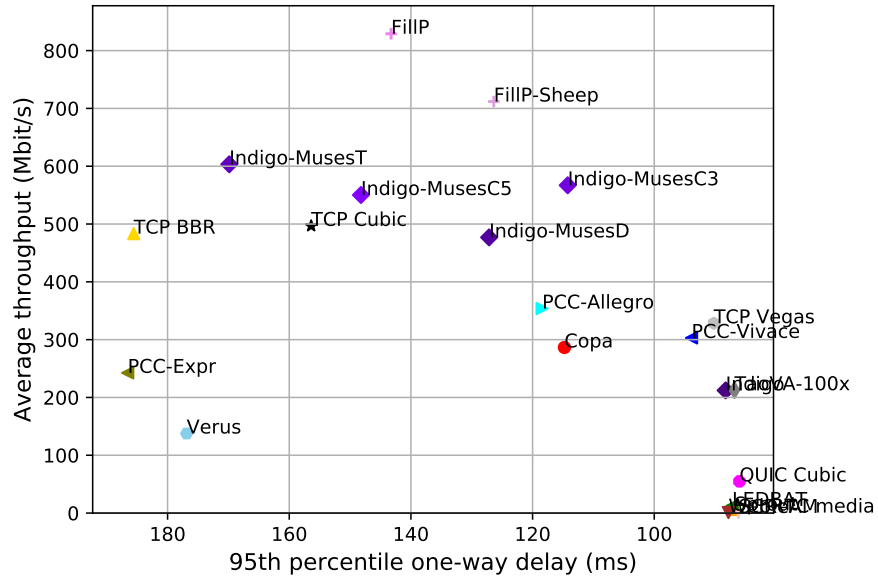
```
Linux 4.15.0-1032-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

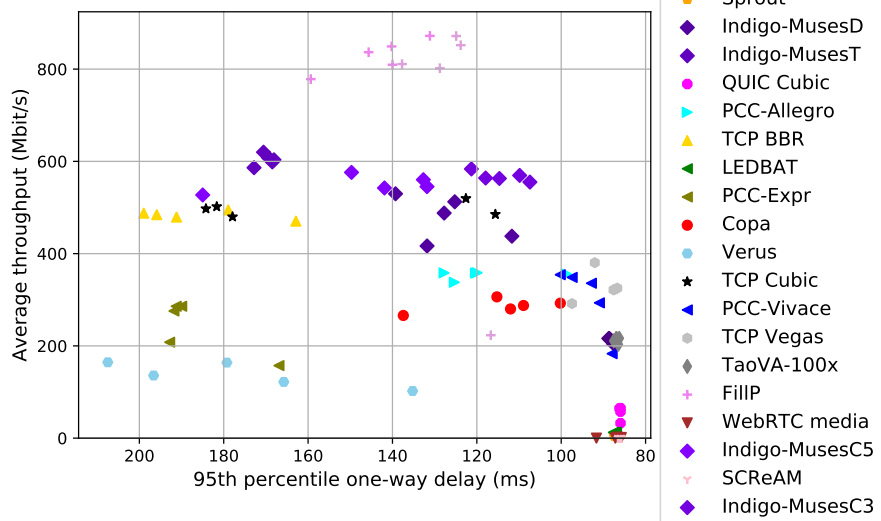
```
branch: muses @ c3953d08f32ec7ebbdede2d2f0cbdeed262571ef
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd9bf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtrees @ 11c9498ecb1596b02ccd896791a02d03172af7ed
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 Iowa to GCE Sydney, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



test from GCE Iowa to GCE Sydney, 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	483.34	185.57	1.45
Copa	5	286.49	114.77	0.60
TCP Cubic	5	496.76	156.40	0.63
FillP	5	829.14	143.26	1.64
FillP-Sheep	5	711.90	126.38	1.26
Indigo	4	212.22	88.27	0.69
Indigo-MusesC3	5	567.01	114.23	0.72
Indigo-MusesC5	5	550.22	148.21	0.93
Indigo-MusesD	5	476.89	127.15	0.74
Indigo-MusesT	5	603.29	169.86	0.87
LEDBAT	5	12.42	87.21	1.16
Muses_DecisionTree	0	N/A	N/A	N/A
PCC-Allegro	5	353.76	118.43	1.05
PCC-Expr	5	242.51	186.56	2.22
QUIC Cubic	4	54.83	86.00	0.88
SCReAM	5	0.22	86.16	0.56
Sprout	5	4.42	86.83	0.70
TaoVA-100x	5	212.55	86.81	0.71
TCP Vegas	5	328.27	90.21	0.56
Verus	5	137.62	176.87	0.65
PCC-Vivace	5	302.99	93.87	0.75
WebRTC media	4	0.91	87.80	0.42



Run 1: Statistics of TCP BBR

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

End at: 2019-06-27 01:20:12

Local clock offset: 26.306 ms

Remote clock offset: 24.606 ms

# Below is generated by plot.py at 2019-06-27 03:48:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 484.53 Mbit/s

95th percentile per-packet one-way delay: 195.878 ms

Loss rate: 1.95%

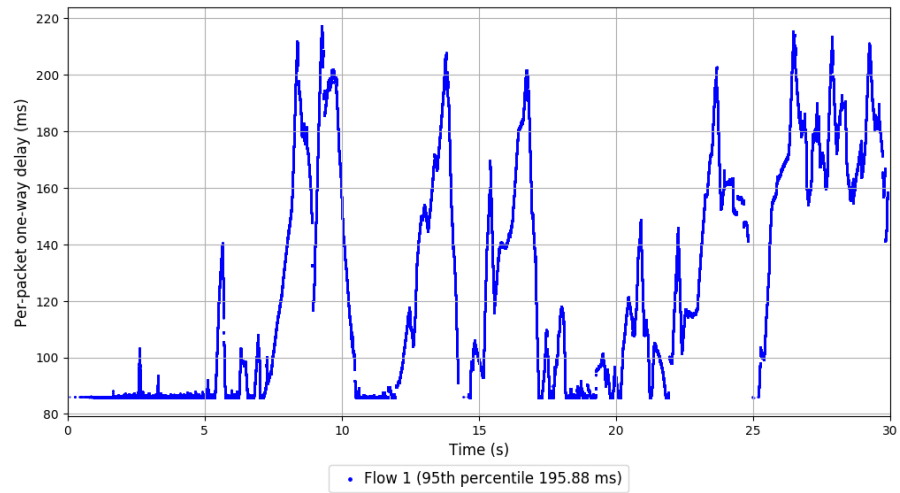
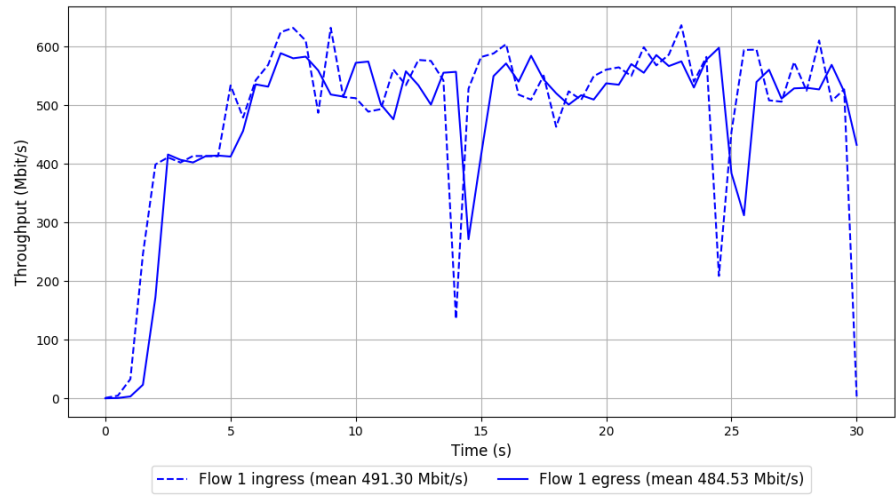
-- Flow 1:

Average throughput: 484.53 Mbit/s

95th percentile per-packet one-way delay: 195.878 ms

Loss rate: 1.95%

# Run 1: Report of TCP BBR — Data Link

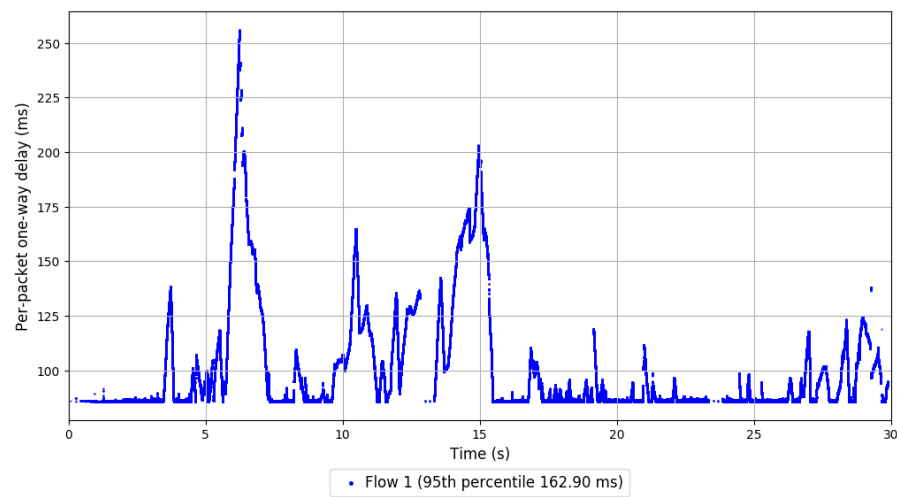
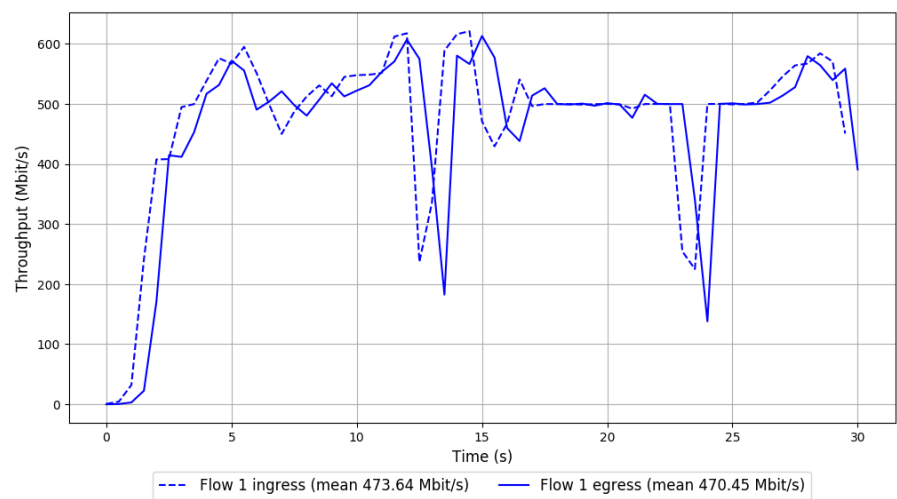


Run 2: Statistics of TCP BBR

Start at: 2019-06-27 01:51:31  
End at: 2019-06-27 01:52:01  
Local clock offset: 39.605 ms  
Remote clock offset: 36.831 ms

# Below is generated by plot.py at 2019-06-27 03:48:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 470.45 Mbit/s  
95th percentile per-packet one-way delay: 162.897 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 470.45 Mbit/s  
95th percentile per-packet one-way delay: 162.897 ms  
Loss rate: 1.25%

Run 2: Report of TCP BBR — Data Link

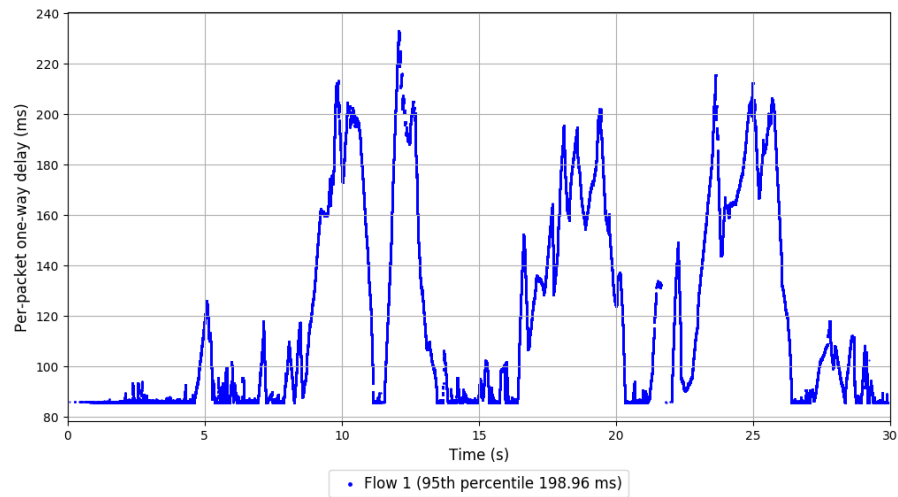
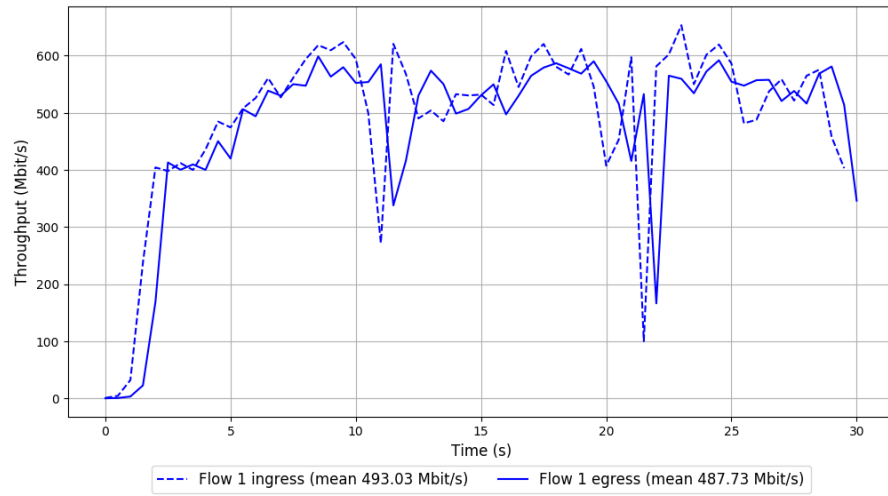


Run 3: Statistics of TCP BBR

Start at: 2019-06-27 02:23:13  
End at: 2019-06-27 02:23:43  
Local clock offset: 19.307 ms  
Remote clock offset: 18.035 ms

# Below is generated by plot.py at 2019-06-27 03:48:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 487.73 Mbit/s  
95th percentile per-packet one-way delay: 198.962 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 487.73 Mbit/s  
95th percentile per-packet one-way delay: 198.962 ms  
Loss rate: 1.64%

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



Run 4: Statistics of TCP BBR

Start at: 2019-06-27 02:55:29

End at: 2019-06-27 02:55:59

Local clock offset: 4.625 ms

Remote clock offset: 4.554 ms

# Below is generated by plot.py at 2019-06-27 03:48:40

# Datalink statistics

-- Total of 1 flow:

Average throughput: 479.21 Mbit/s

95th percentile per-packet one-way delay: 191.191 ms

Loss rate: 1.06%

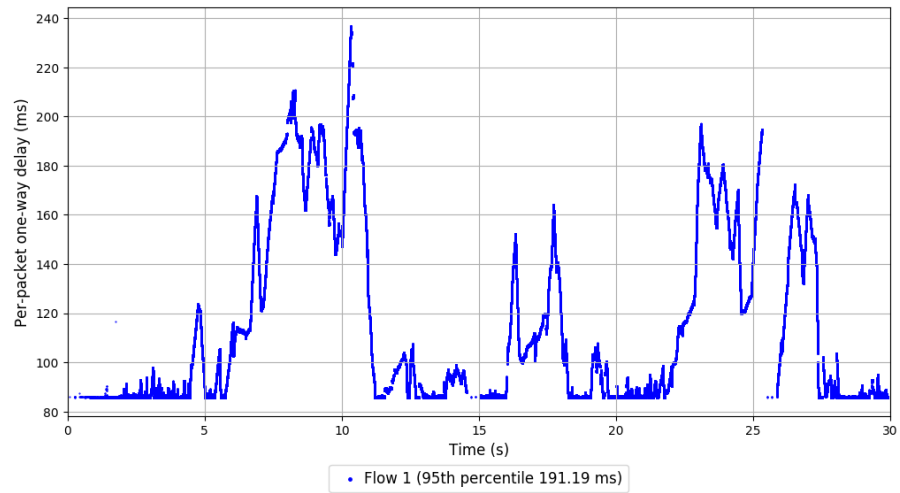
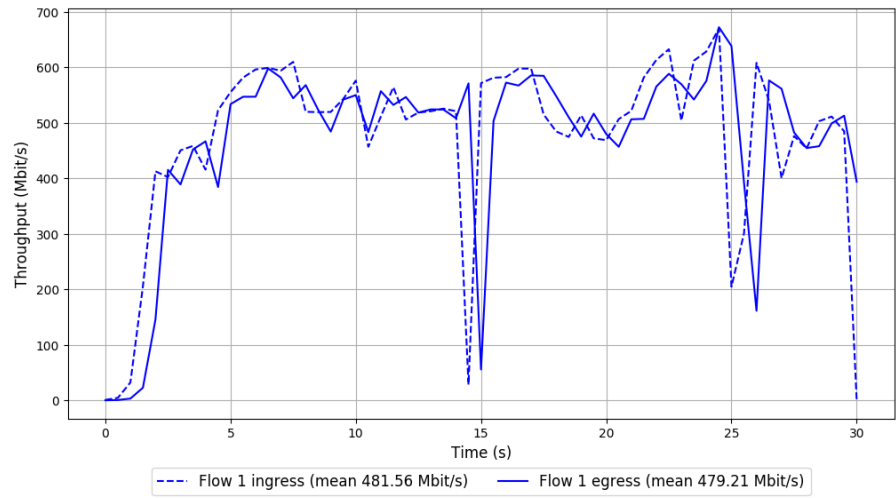
-- Flow 1:

Average throughput: 479.21 Mbit/s

95th percentile per-packet one-way delay: 191.191 ms

Loss rate: 1.06%

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





Run 5: Statistics of TCP BBR

Start at: 2019-06-27 03:27:43

End at: 2019-06-27 03:28:13

Local clock offset: 2.045 ms

Remote clock offset: 1.666 ms

# Below is generated by plot.py at 2019-06-27 03:48:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 494.80 Mbit/s

95th percentile per-packet one-way delay: 178.924 ms

Loss rate: 1.35%

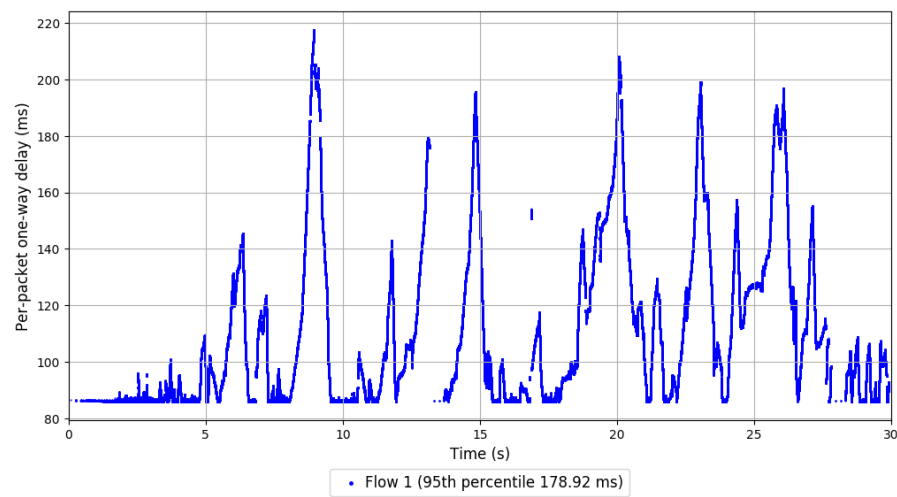
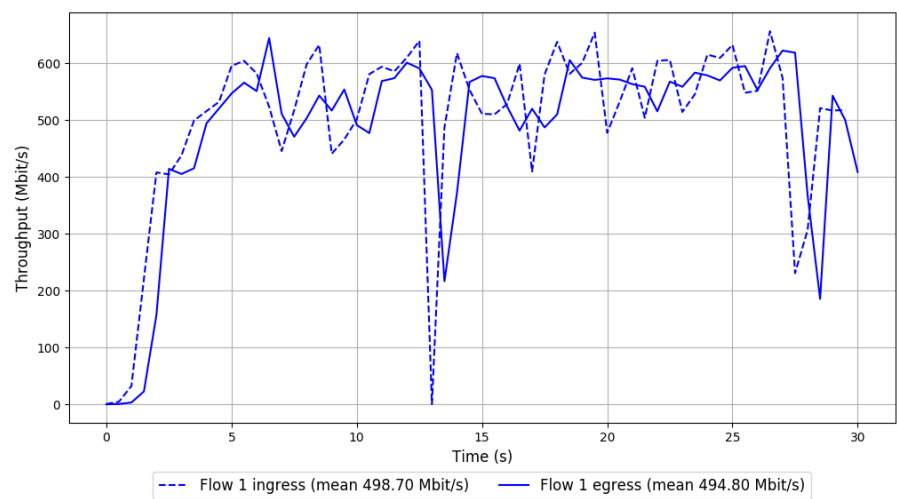
-- Flow 1:

Average throughput: 494.80 Mbit/s

95th percentile per-packet one-way delay: 178.924 ms

Loss rate: 1.35%

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-06-27 00:51:29

End at: 2019-06-27 00:51:59

Local clock offset: 6.433 ms

Remote clock offset: 6.541 ms

# Below is generated by plot.py at 2019-06-27 03:48:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 265.94 Mbit/s

95th percentile per-packet one-way delay: 137.427 ms

Loss rate: 0.59%

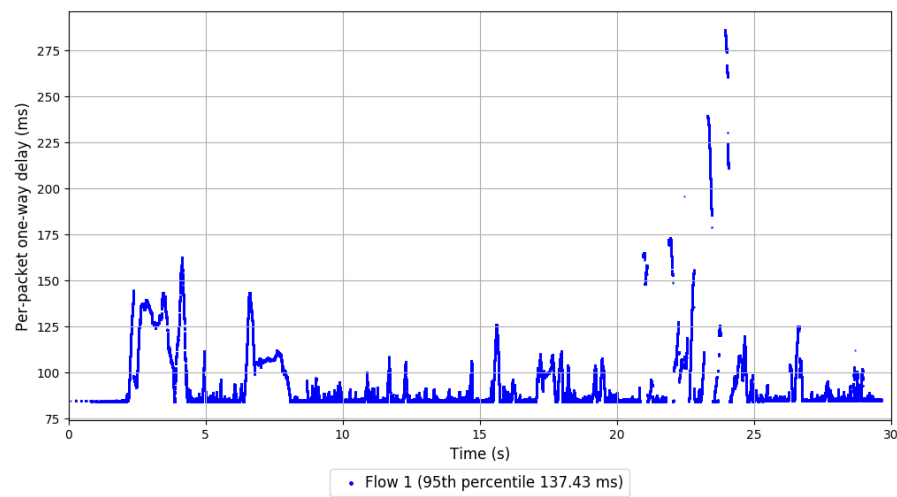
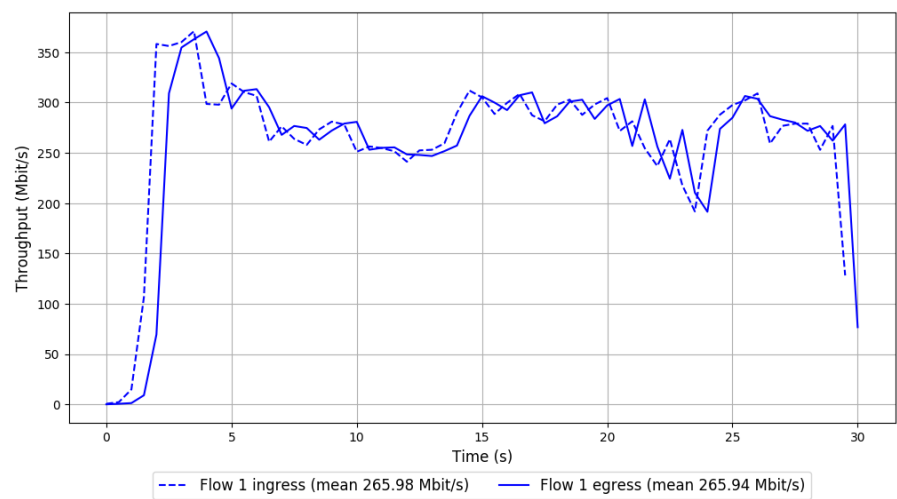
-- Flow 1:

Average throughput: 265.94 Mbit/s

95th percentile per-packet one-way delay: 137.427 ms

Loss rate: 0.59%

Run 1: Report of Copa — Data Link

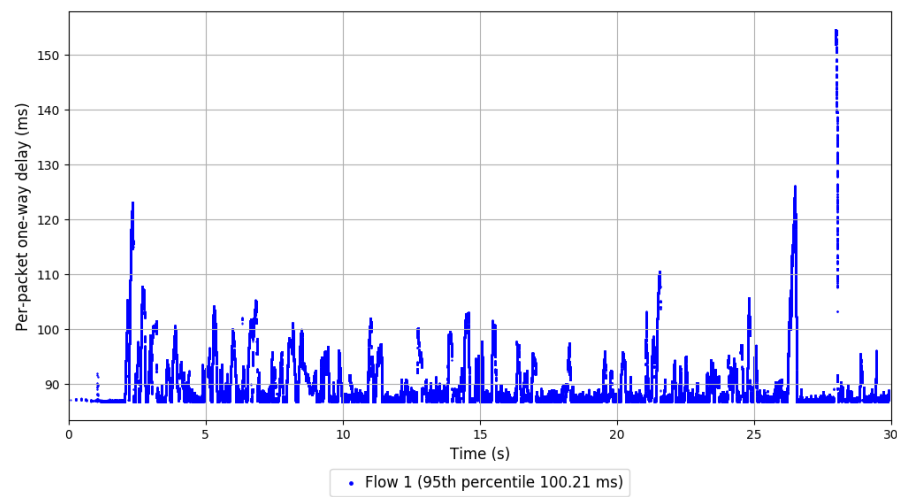
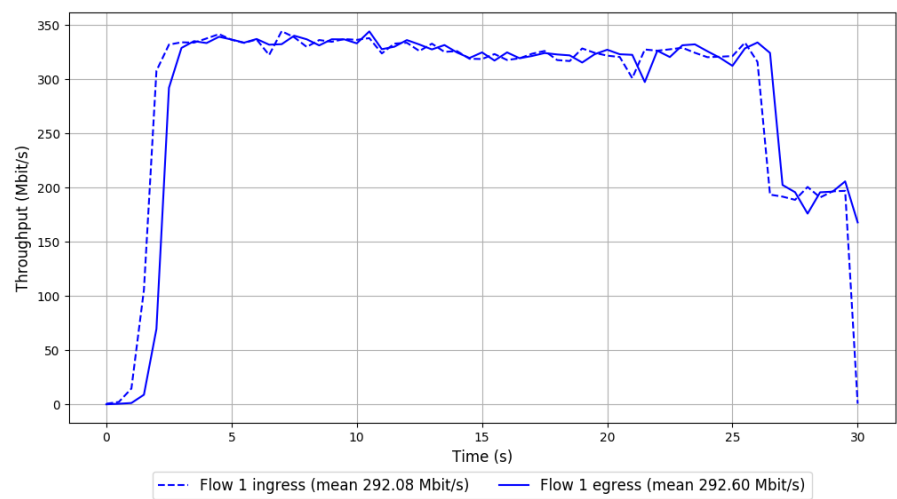


Run 2: Statistics of Copa

Start at: 2019-06-27 01:23:02  
End at: 2019-06-27 01:23:32  
Local clock offset: 29.032 ms  
Remote clock offset: 26.45 ms

# Below is generated by plot.py at 2019-06-27 03:49:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 292.60 Mbit/s  
95th percentile per-packet one-way delay: 100.207 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 292.60 Mbit/s  
95th percentile per-packet one-way delay: 100.207 ms  
Loss rate: 0.40%

Run 2: Report of Copa — Data Link

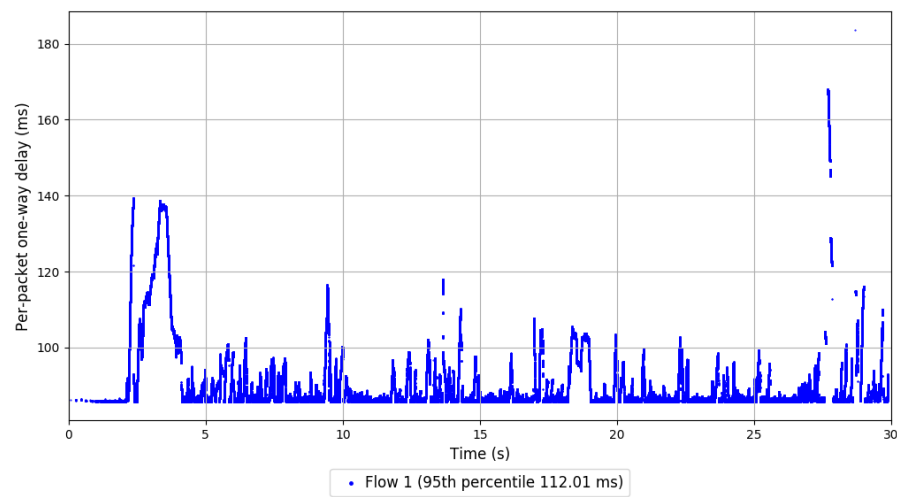
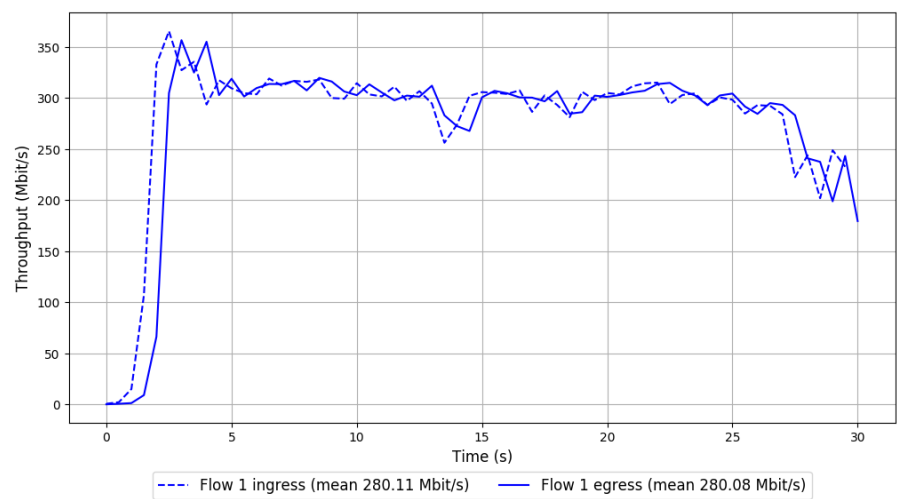


Run 3: Statistics of Copa

Start at: 2019-06-27 01:54:51  
End at: 2019-06-27 01:55:21  
Local clock offset: 43.978 ms  
Remote clock offset: 40.962 ms

# Below is generated by plot.py at 2019-06-27 03:49:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 280.08 Mbit/s  
95th percentile per-packet one-way delay: 112.014 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 280.08 Mbit/s  
95th percentile per-packet one-way delay: 112.014 ms  
Loss rate: 0.59%

Run 3: Report of Copa — Data Link



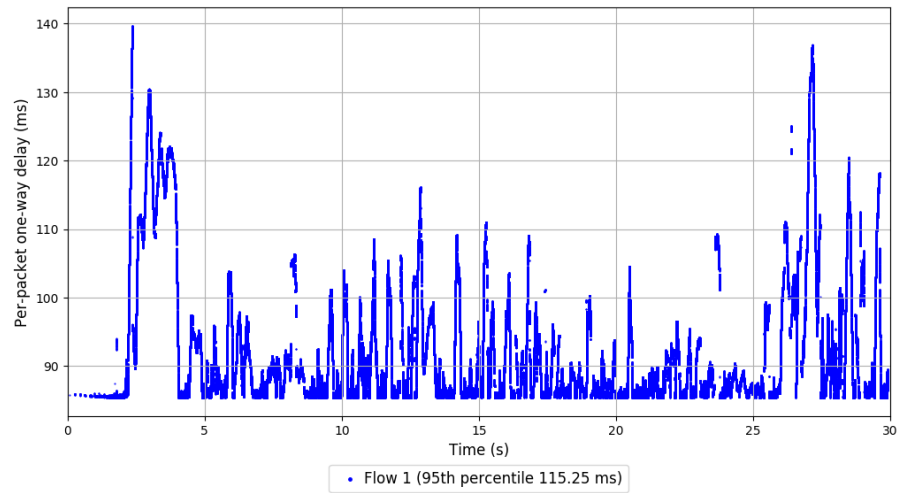
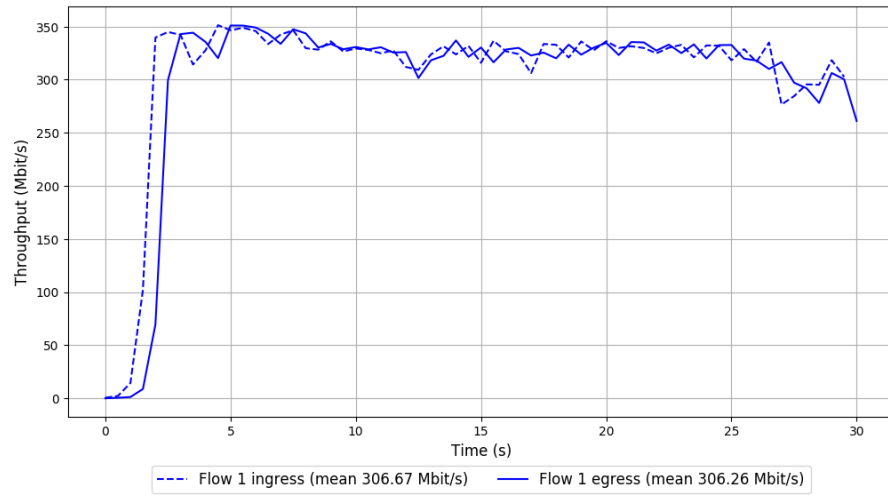


Run 4: Statistics of Copa

Start at: 2019-06-27 02:26:33  
End at: 2019-06-27 02:27:03  
Local clock offset: 20.672 ms  
Remote clock offset: 19.505 ms

# Below is generated by plot.py at 2019-06-27 03:58:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 306.26 Mbit/s  
95th percentile per-packet one-way delay: 115.245 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 306.26 Mbit/s  
95th percentile per-packet one-way delay: 115.245 ms  
Loss rate: 0.71%

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



Run 5: Statistics of Copa

Start at: 2019-06-27 02:58:53

End at: 2019-06-27 02:59:23

Local clock offset: 4.869 ms

Remote clock offset: 4.66 ms

# Below is generated by plot.py at 2019-06-27 03:58:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 287.58 Mbit/s

95th percentile per-packet one-way delay: 108.939 ms

Loss rate: 0.70%

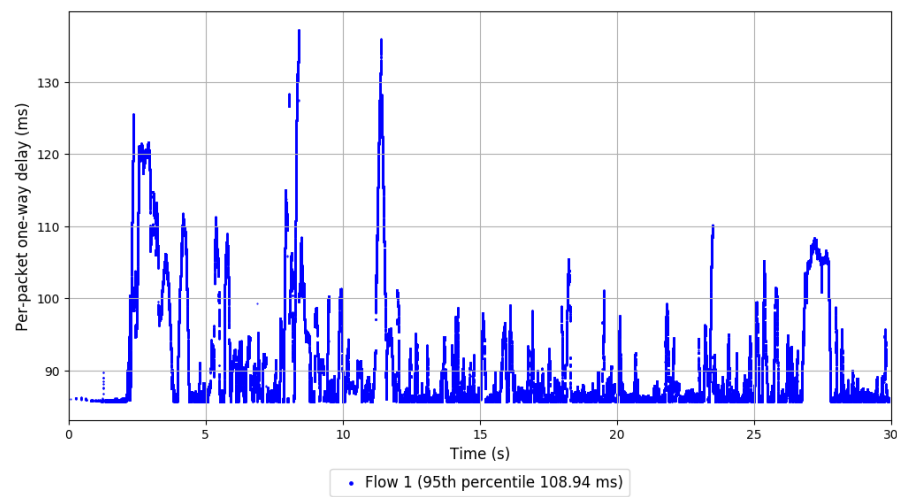
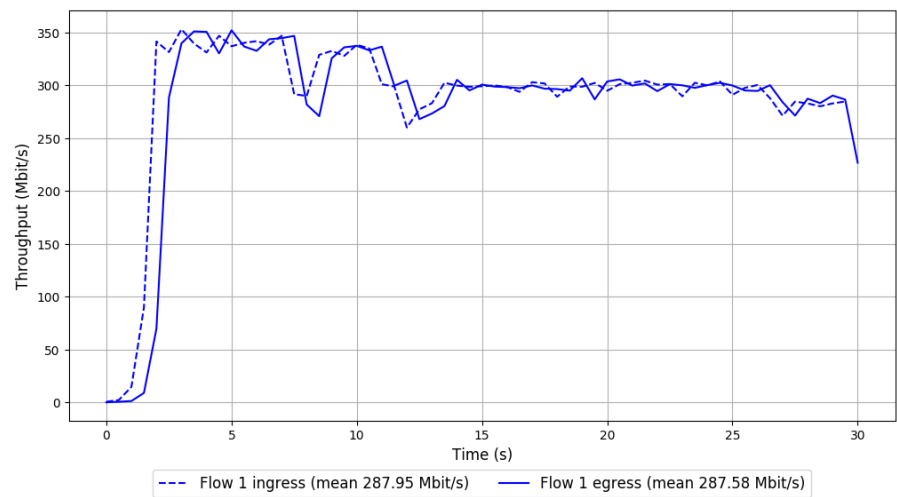
-- Flow 1:

Average throughput: 287.58 Mbit/s

95th percentile per-packet one-way delay: 108.939 ms

Loss rate: 0.70%

Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-06-27 00:54:30

End at: 2019-06-27 00:55:00

Local clock offset: 8.478 ms

Remote clock offset: 8.169 ms

# Below is generated by plot.py at 2019-06-27 03:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 519.50 Mbit/s

95th percentile per-packet one-way delay: 122.592 ms

Loss rate: 0.72%

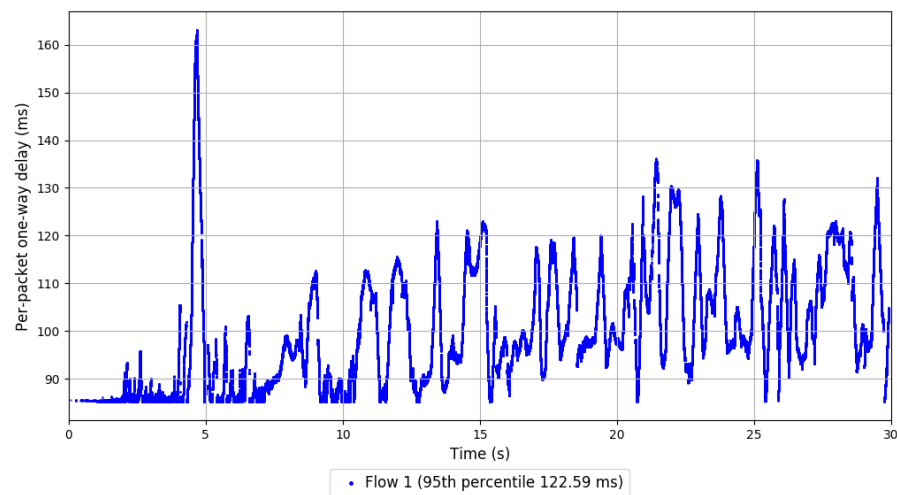
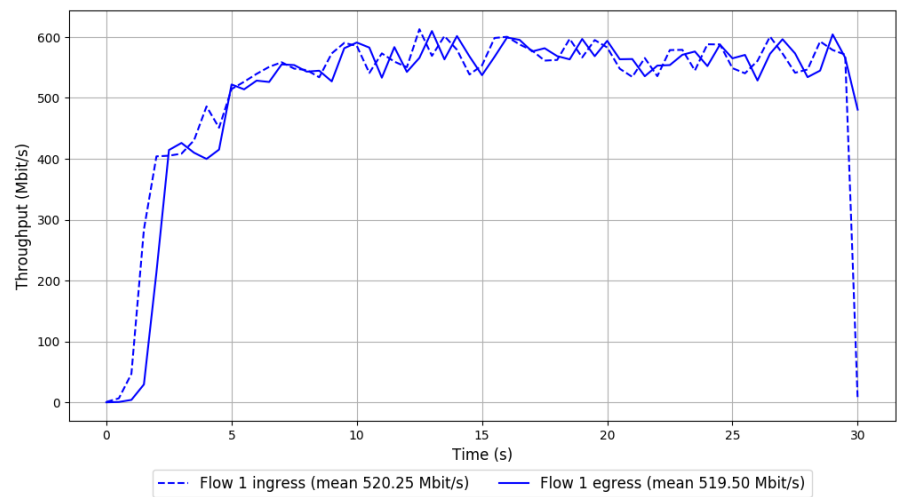
-- Flow 1:

Average throughput: 519.50 Mbit/s

95th percentile per-packet one-way delay: 122.592 ms

Loss rate: 0.72%

Run 1: Report of TCP Cubic — Data Link

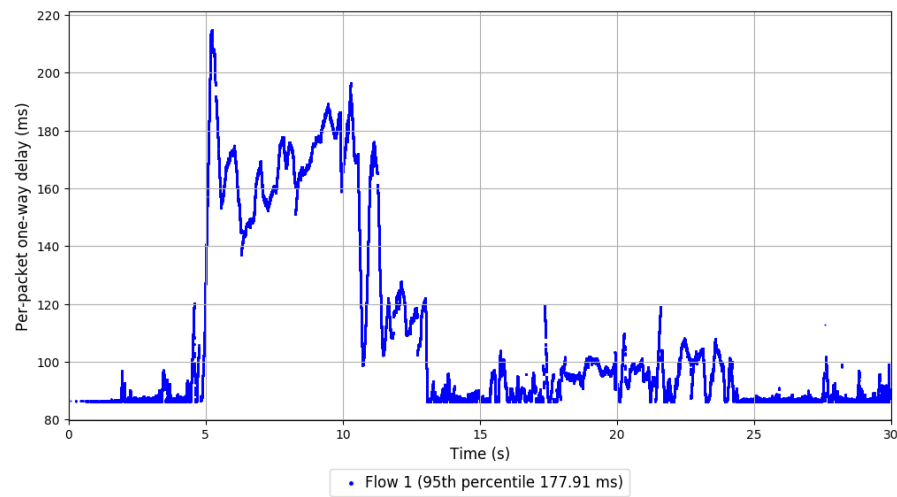
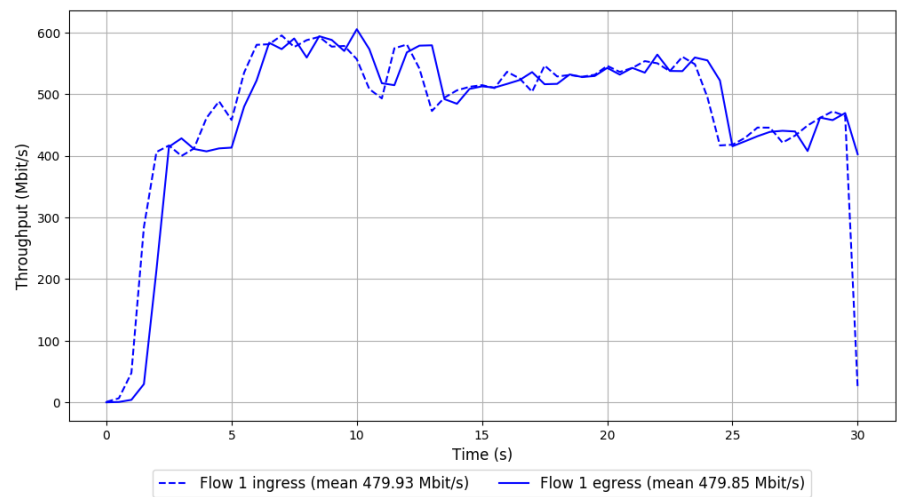


Run 2: Statistics of TCP Cubic

Start at: 2019-06-27 01:26:06  
End at: 2019-06-27 01:26:36  
Local clock offset: 24.313 ms  
Remote clock offset: 22.429 ms

# Below is generated by plot.py at 2019-06-27 03:58:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 479.85 Mbit/s  
95th percentile per-packet one-way delay: 177.913 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 479.85 Mbit/s  
95th percentile per-packet one-way delay: 177.913 ms  
Loss rate: 0.61%

Run 2: Report of TCP Cubic — Data Link



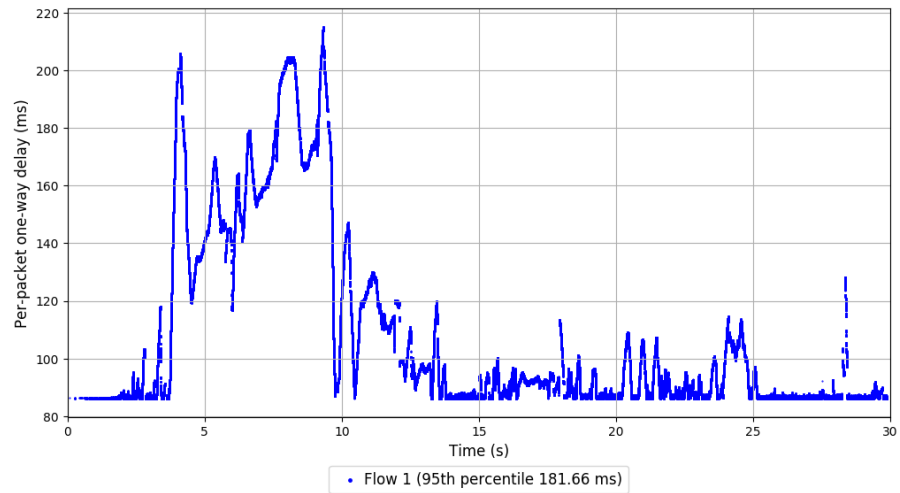
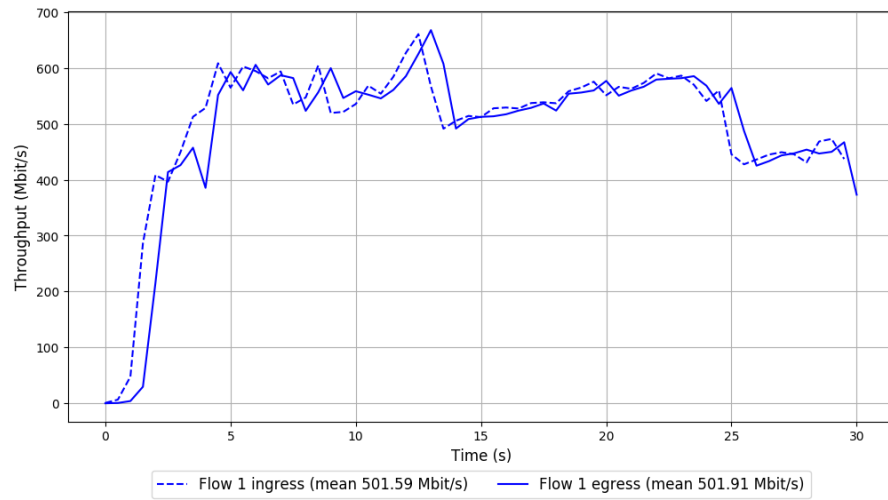


Run 3: Statistics of TCP Cubic

Start at: 2019-06-27 01:57:51  
End at: 2019-06-27 01:58:21  
Local clock offset: 38.741 ms  
Remote clock offset: 36.128 ms

# Below is generated by plot.py at 2019-06-27 03:58:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 501.91 Mbit/s  
95th percentile per-packet one-way delay: 181.658 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 501.91 Mbit/s  
95th percentile per-packet one-way delay: 181.658 ms  
Loss rate: 0.51%

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

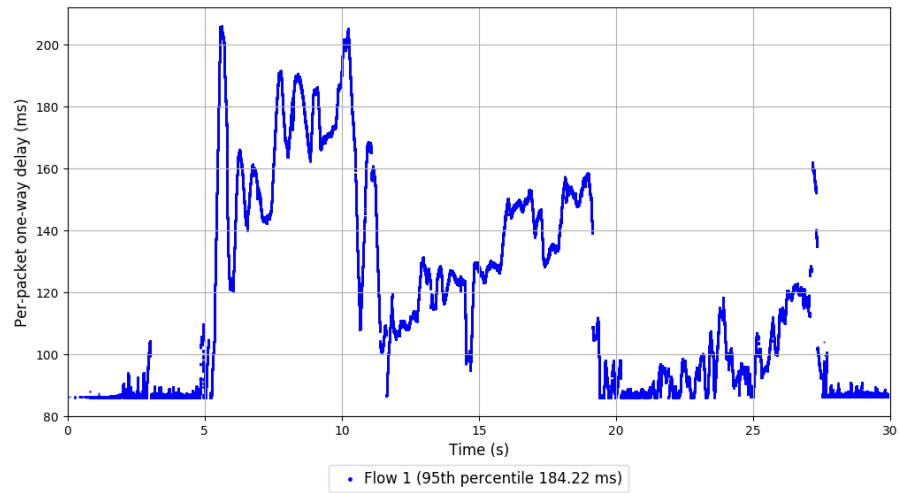
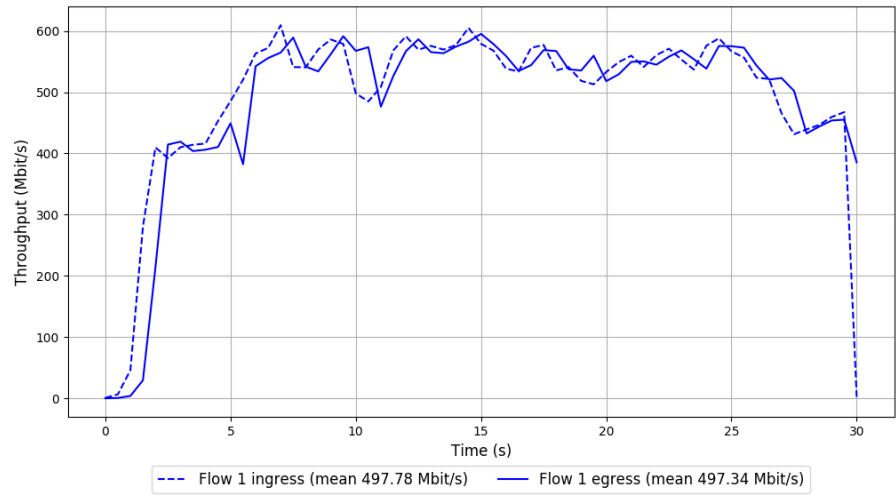


Run 4: Statistics of TCP Cubic

Start at: 2019-06-27 02:29:41  
End at: 2019-06-27 02:30:11  
Local clock offset: 22.946 ms  
Remote clock offset: 21.043 ms

# Below is generated by plot.py at 2019-06-27 03:58:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 497.34 Mbit/s  
95th percentile per-packet one-way delay: 184.217 ms  
Loss rate: 0.66%  
-- Flow 1:  
Average throughput: 497.34 Mbit/s  
95th percentile per-packet one-way delay: 184.217 ms  
Loss rate: 0.66%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-06-27 03:01:56

End at: 2019-06-27 03:02:26

Local clock offset: 5.068 ms

Remote clock offset: 4.836 ms

# Below is generated by plot.py at 2019-06-27 03:58:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 485.20 Mbit/s

95th percentile per-packet one-way delay: 115.602 ms

Loss rate: 0.64%

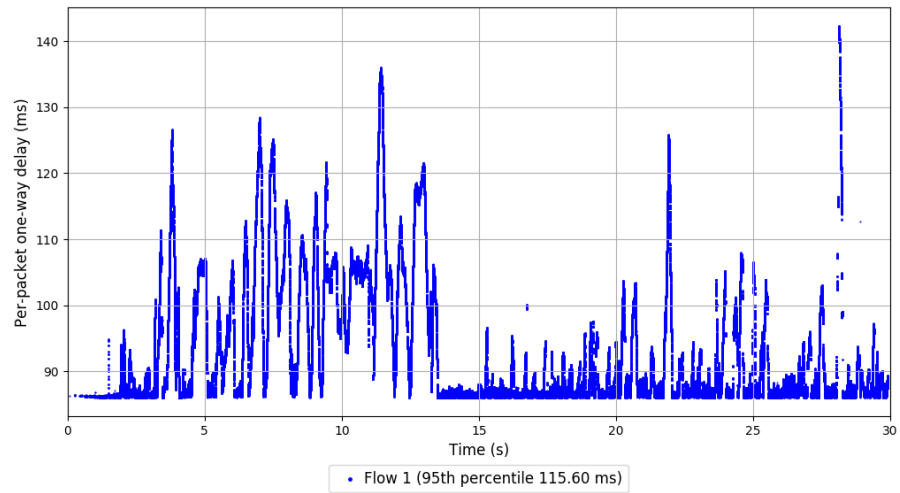
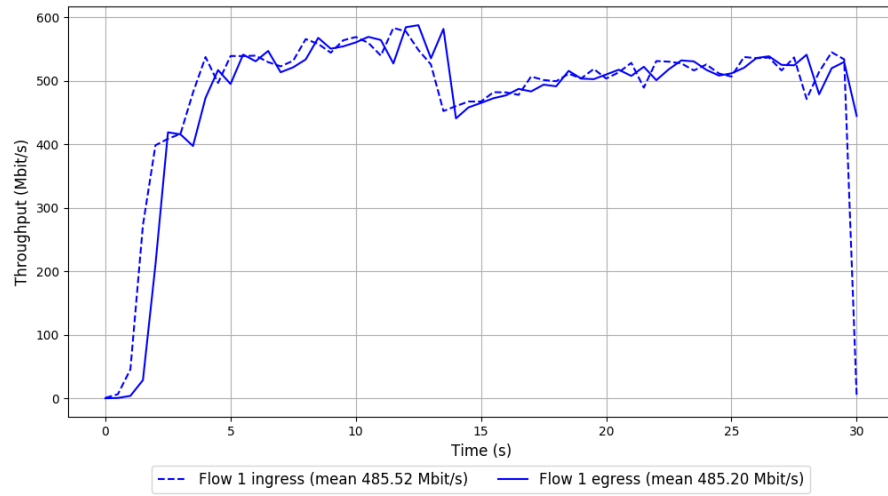
-- Flow 1:

Average throughput: 485.20 Mbit/s

95th percentile per-packet one-way delay: 115.602 ms

Loss rate: 0.64%

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



Run 1: Statistics of FillP

Start at: 2019-06-27 00:49:42

End at: 2019-06-27 00:50:12

Local clock offset: 3.728 ms

Remote clock offset: 4.71 ms

# Below is generated by plot.py at 2019-06-27 04:06:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 849.17 Mbit/s

95th percentile per-packet one-way delay: 140.204 ms

Loss rate: 1.56%

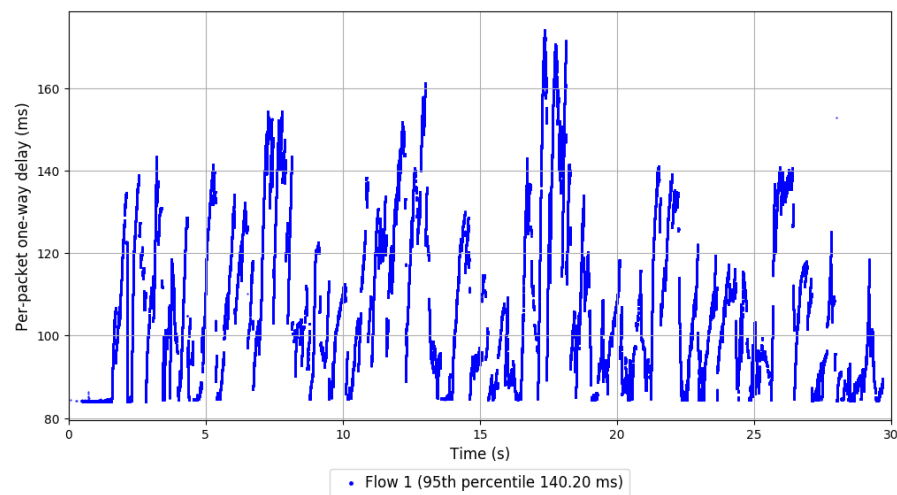
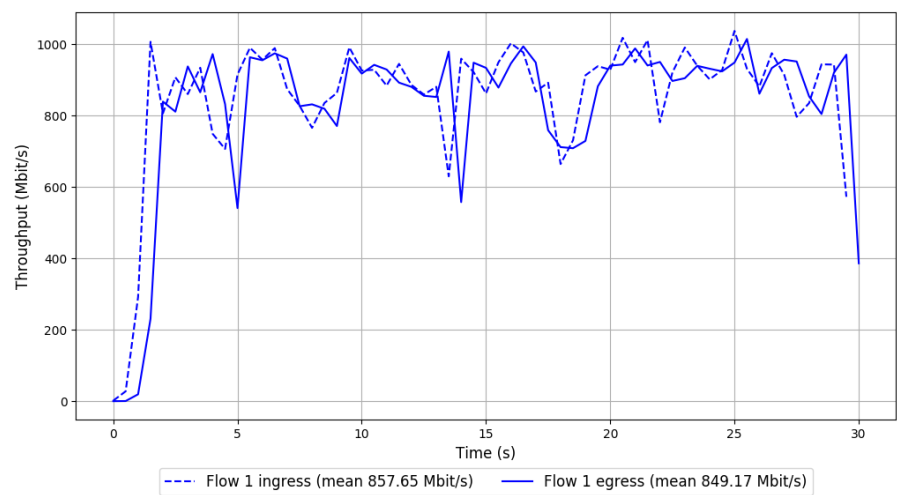
-- Flow 1:

Average throughput: 849.17 Mbit/s

95th percentile per-packet one-way delay: 140.204 ms

Loss rate: 1.56%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-06-27 01:21:19

End at: 2019-06-27 01:21:49

Local clock offset: 29.01 ms

Remote clock offset: 27.46 ms

# Below is generated by plot.py at 2019-06-27 04:15:29

# Datalink statistics

-- Total of 1 flow:

Average throughput: 809.49 Mbit/s

95th percentile per-packet one-way delay: 139.987 ms

Loss rate: 0.88%

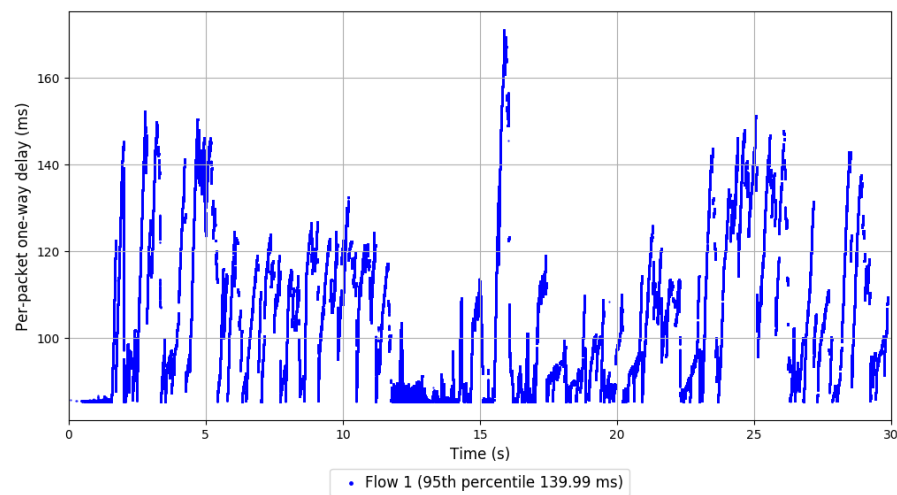
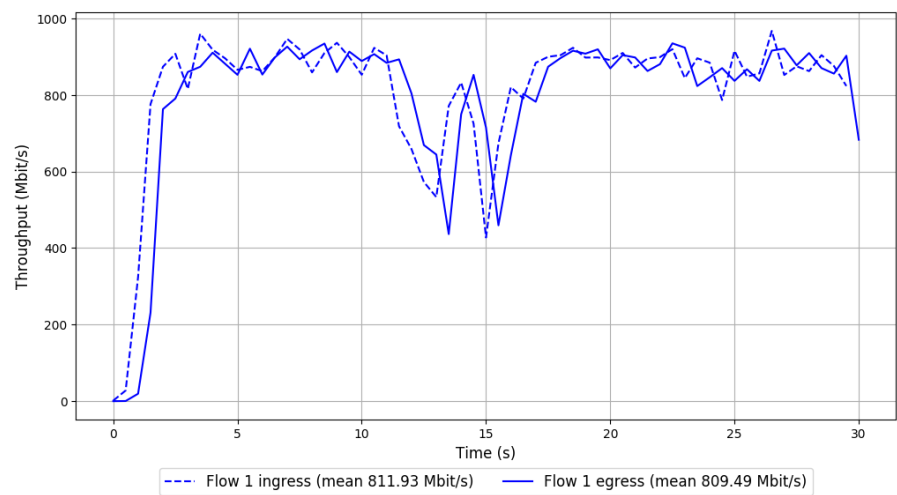
-- Flow 1:

Average throughput: 809.49 Mbit/s

95th percentile per-packet one-way delay: 139.987 ms

Loss rate: 0.88%

Run 2: Report of FillP — Data Link

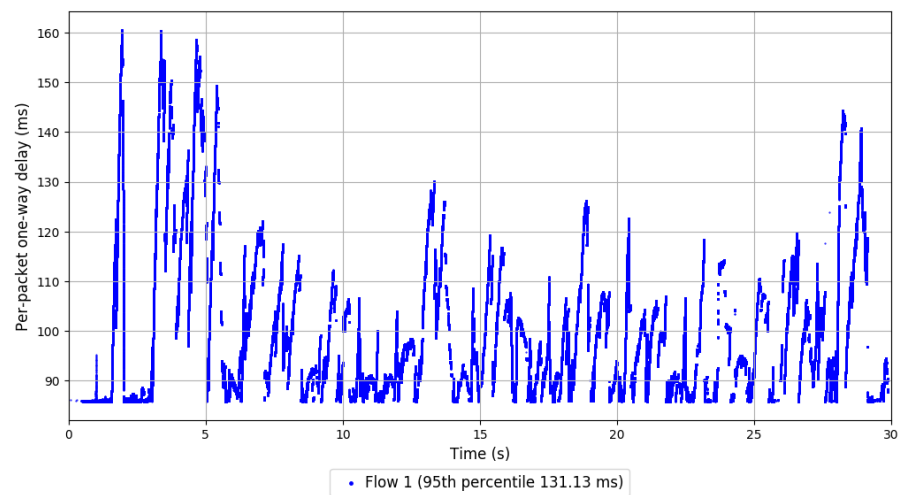
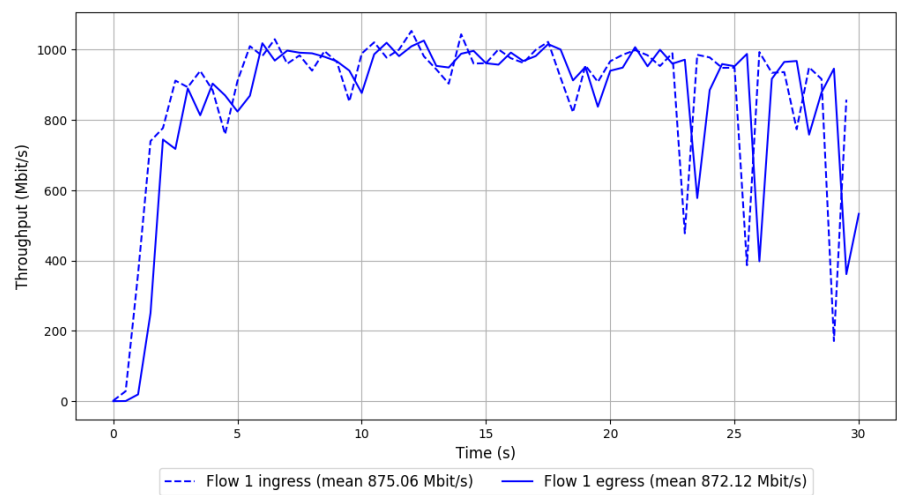


Run 3: Statistics of FillP

Start at: 2019-06-27 01:53:05  
End at: 2019-06-27 01:53:35  
Local clock offset: 41.683 ms  
Remote clock offset: 38.748 ms

# Below is generated by plot.py at 2019-06-27 04:17:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 872.12 Mbit/s  
95th percentile per-packet one-way delay: 131.127 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 872.12 Mbit/s  
95th percentile per-packet one-way delay: 131.127 ms  
Loss rate: 0.91%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-06-27 02:24:51

End at: 2019-06-27 02:25:21

Local clock offset: 20.445 ms

Remote clock offset: 18.69 ms

# Below is generated by plot.py at 2019-06-27 04:17:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 778.32 Mbit/s

95th percentile per-packet one-way delay: 159.356 ms

Loss rate: 3.20%

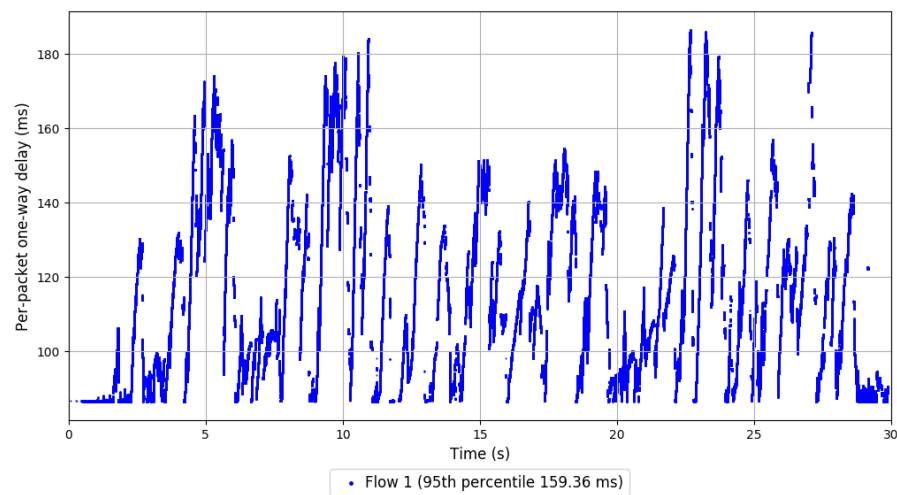
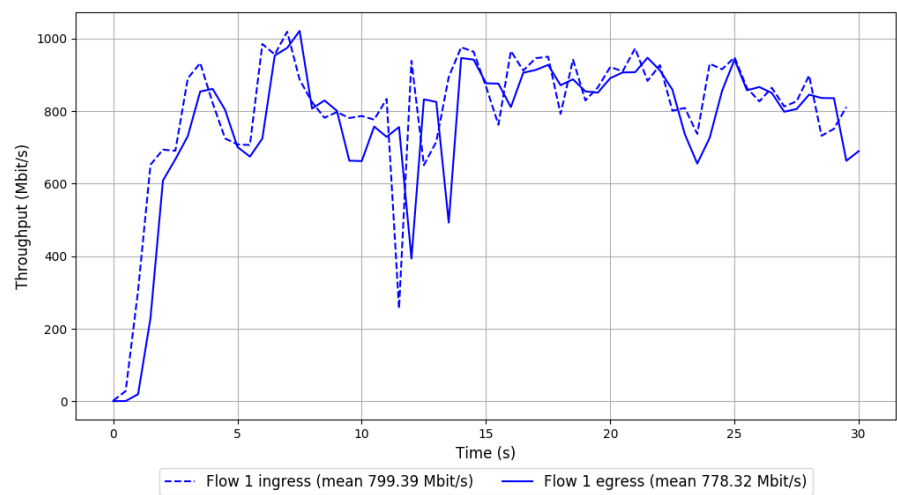
-- Flow 1:

Average throughput: 778.32 Mbit/s

95th percentile per-packet one-way delay: 159.356 ms

Loss rate: 3.20%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-06-27 02:57:07

End at: 2019-06-27 02:57:37

Local clock offset: 4.666 ms

Remote clock offset: 4.598 ms

# Below is generated by plot.py at 2019-06-27 04:17:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 836.62 Mbit/s

95th percentile per-packet one-way delay: 145.641 ms

Loss rate: 1.66%

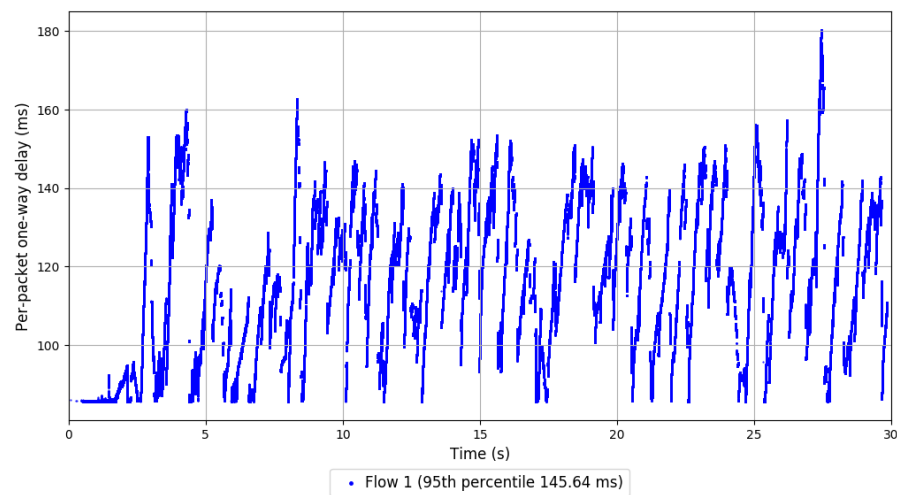
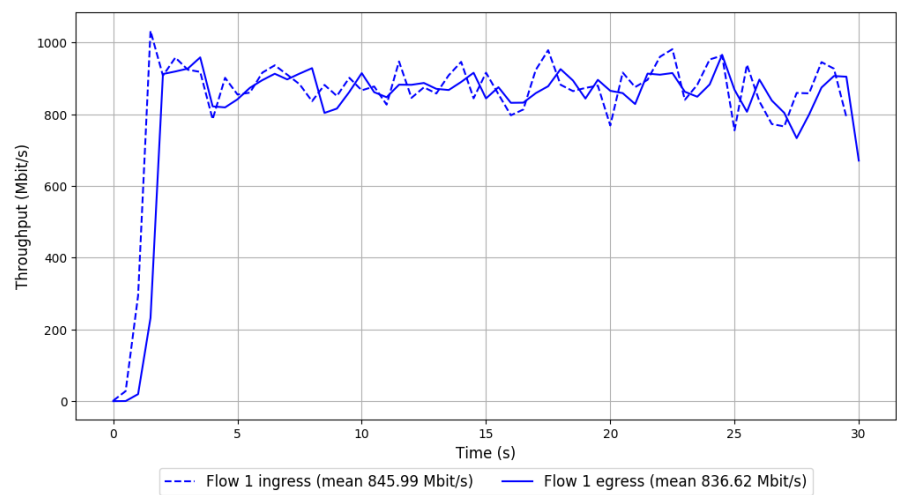
-- Flow 1:

Average throughput: 836.62 Mbit/s

95th percentile per-packet one-way delay: 145.641 ms

Loss rate: 1.66%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-06-27 00:58:24

End at: 2019-06-27 00:58:54

Local clock offset: 9.843 ms

Remote clock offset: 9.436 ms

# Below is generated by plot.py at 2019-06-27 04:17:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 801.96 Mbit/s

95th percentile per-packet one-way delay: 128.771 ms

Loss rate: 0.70%

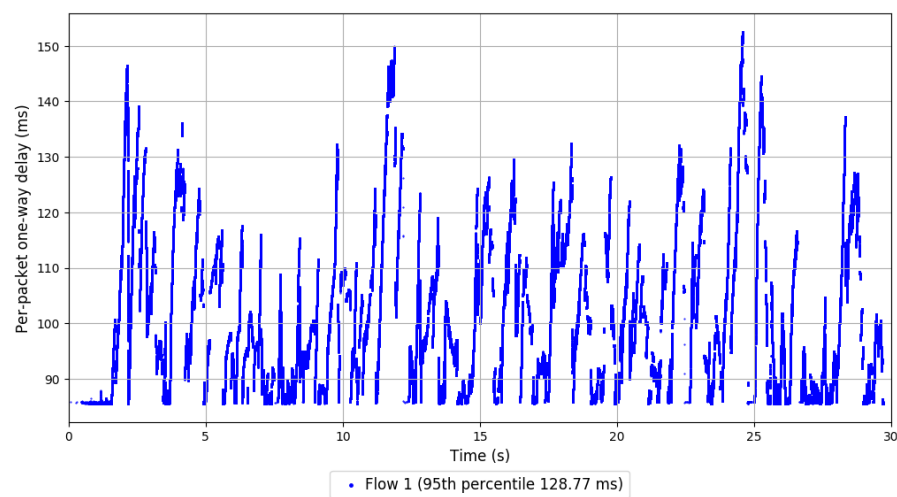
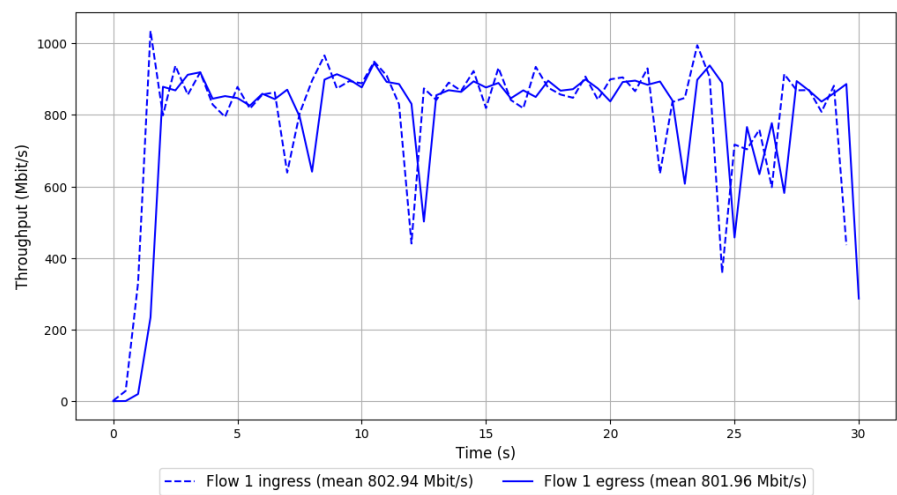
-- Flow 1:

Average throughput: 801.96 Mbit/s

95th percentile per-packet one-way delay: 128.771 ms

Loss rate: 0.70%

Run 1: Report of FillP-Sheep — Data Link

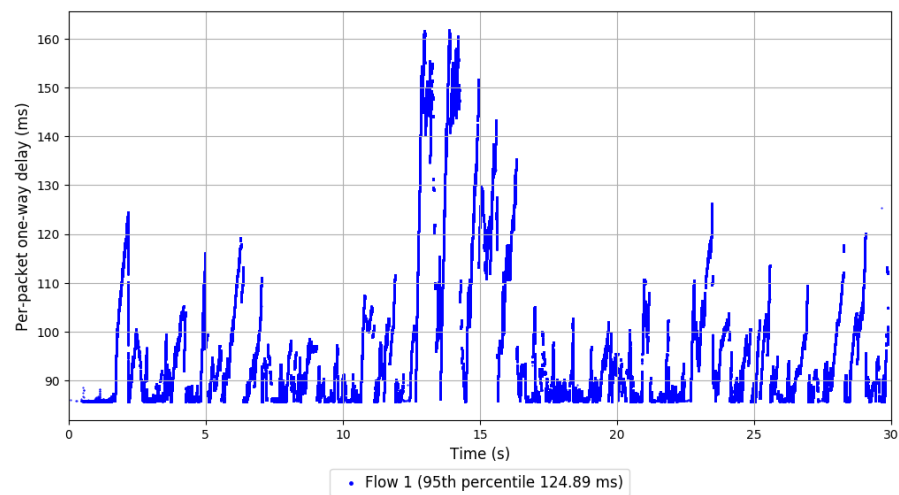
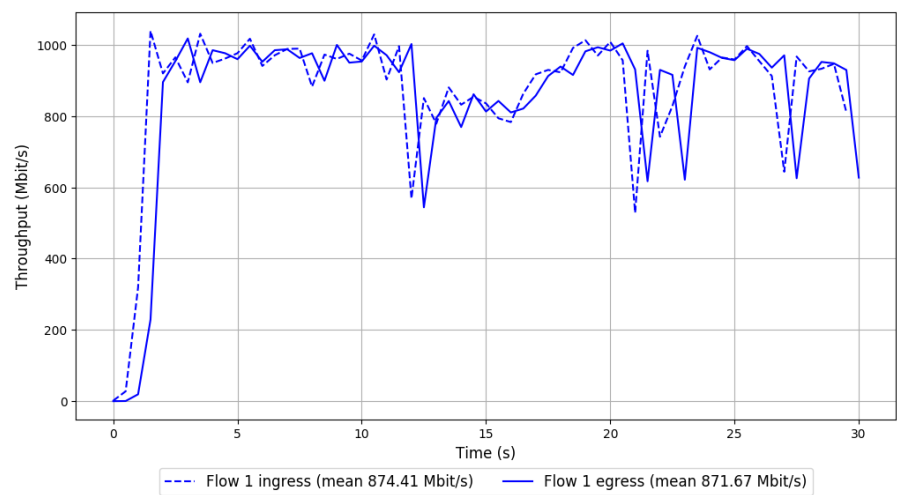


Run 2: Statistics of FillP-Sheep

Start at: 2019-06-27 01:30:18  
End at: 2019-06-27 01:30:48  
Local clock offset: 22.33 ms  
Remote clock offset: 20.857 ms

# Below is generated by plot.py at 2019-06-27 04:17:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 871.67 Mbit/s  
95th percentile per-packet one-way delay: 124.895 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 871.67 Mbit/s  
95th percentile per-packet one-way delay: 124.895 ms  
Loss rate: 0.89%

Run 2: Report of FillP-Sheep — Data Link

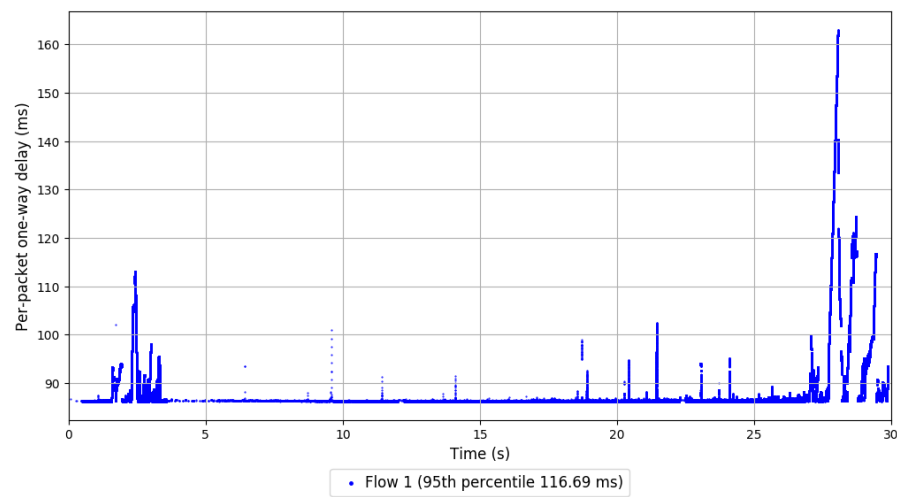
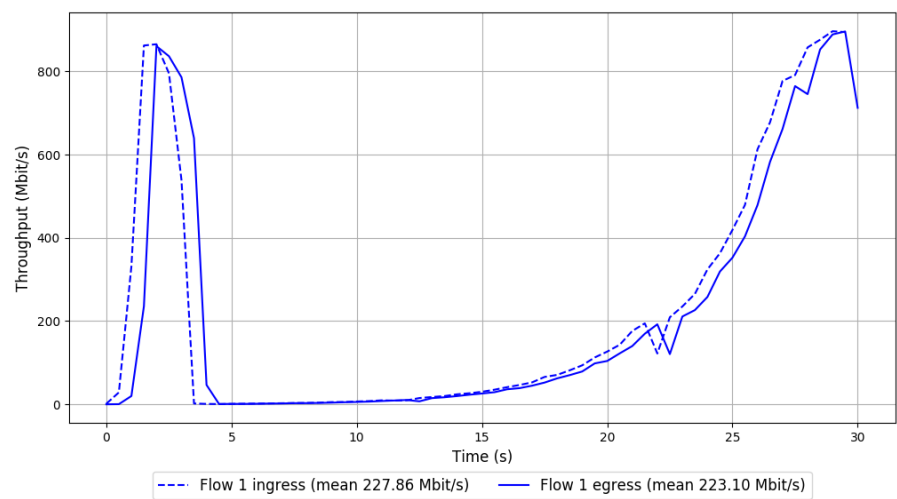


Run 3: Statistics of FillP-Sheep

Start at: 2019-06-27 02:02:05  
End at: 2019-06-27 02:02:35  
Local clock offset: 26.781 ms  
Remote clock offset: 24.735 ms

# Below is generated by plot.py at 2019-06-27 04:17:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 223.10 Mbit/s  
95th percentile per-packet one-way delay: 116.686 ms  
Loss rate: 2.66%  
-- Flow 1:  
Average throughput: 223.10 Mbit/s  
95th percentile per-packet one-way delay: 116.686 ms  
Loss rate: 2.66%

Run 3: Report of FillP-Sheep — Data Link

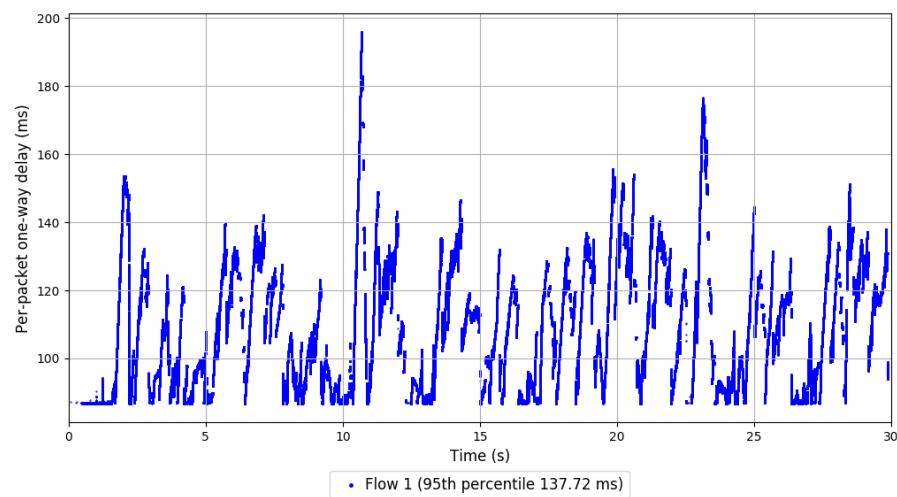
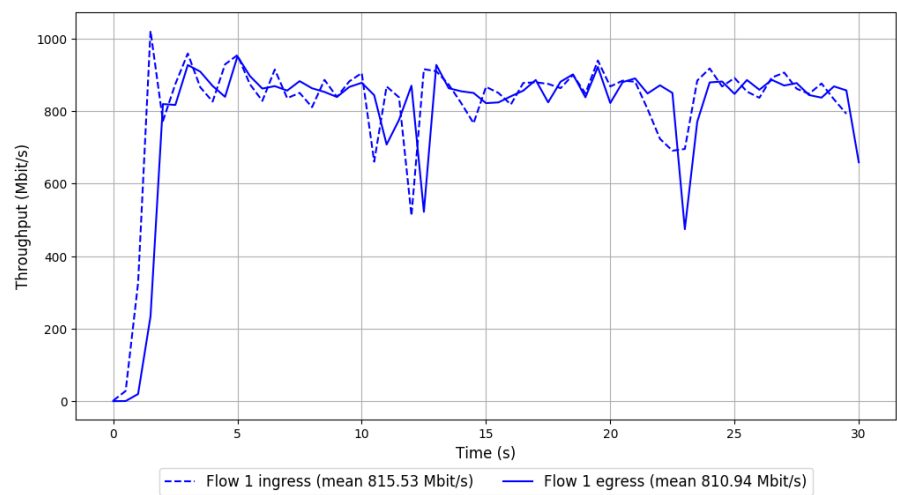


Run 4: Statistics of FillP-Sheep

Start at: 2019-06-27 02:33:55  
End at: 2019-06-27 02:34:25  
Local clock offset: 15.769 ms  
Remote clock offset: 14.285 ms

# Below is generated by plot.py at 2019-06-27 04:22:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 810.94 Mbit/s  
95th percentile per-packet one-way delay: 137.722 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 810.94 Mbit/s  
95th percentile per-packet one-way delay: 137.722 ms  
Loss rate: 1.14%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-06-27 03:06:08

End at: 2019-06-27 03:06:38

Local clock offset: 4.744 ms

Remote clock offset: 4.151 ms

# Below is generated by plot.py at 2019-06-27 04:28:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 851.85 Mbit/s

95th percentile per-packet one-way delay: 123.815 ms

Loss rate: 0.90%

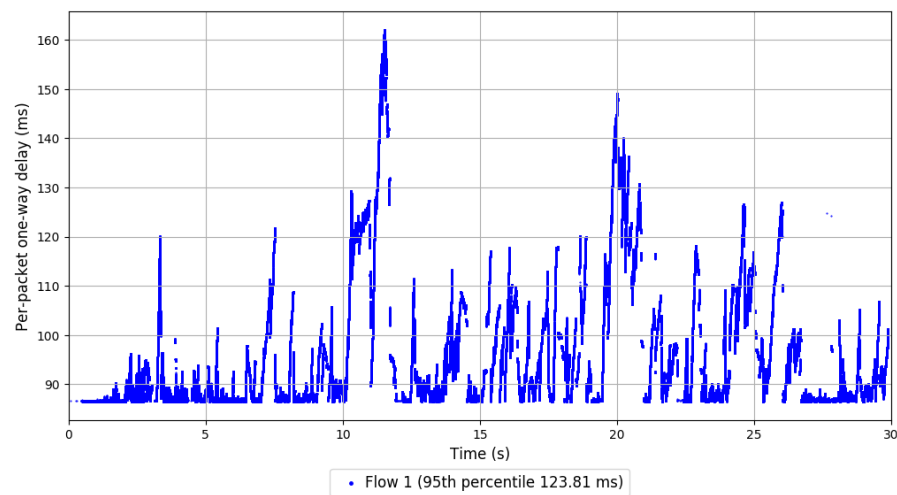
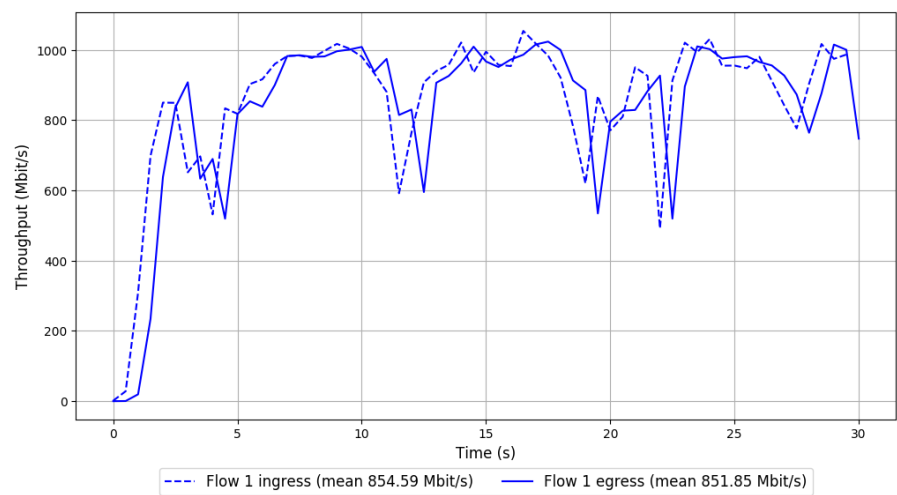
-- Flow 1:

Average throughput: 851.85 Mbit/s

95th percentile per-packet one-way delay: 123.815 ms

Loss rate: 0.90%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

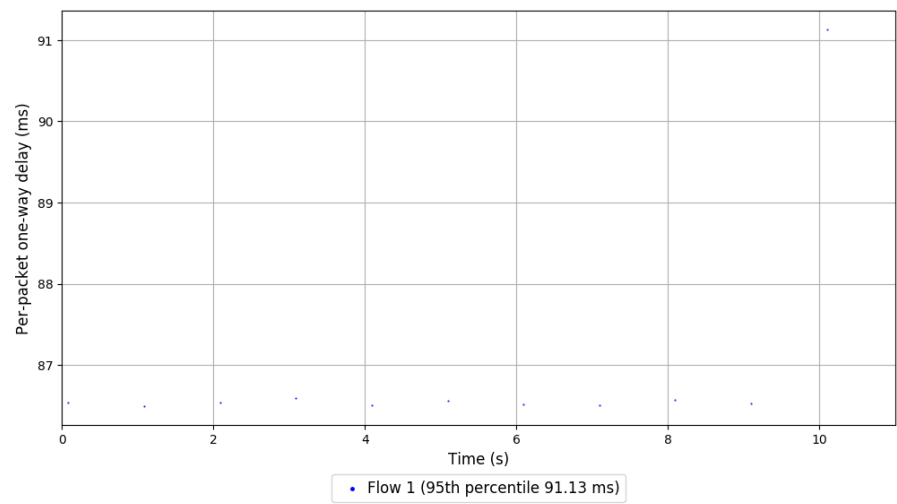
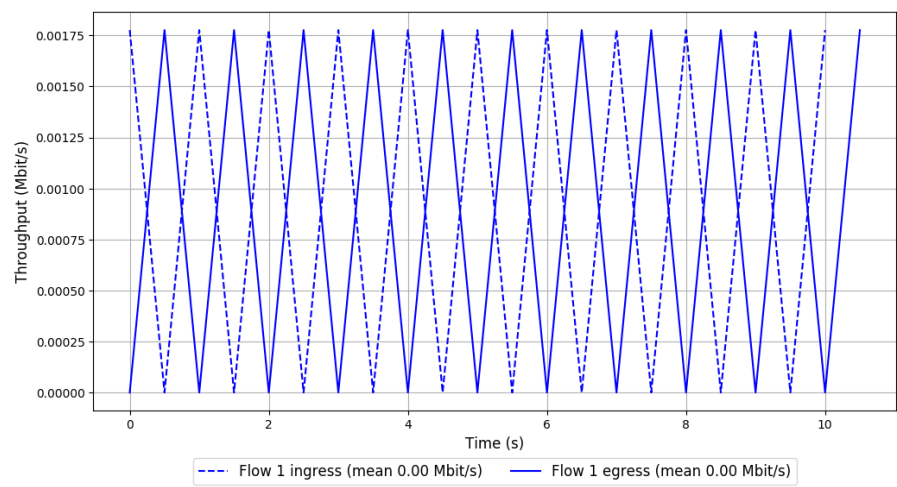
Start at: 2019-06-27 00:57:15

End at: 2019-06-27 00:57:45

Local clock offset: 11.74 ms

Remote clock offset: 10.555 ms

Run 1: Report of Indigo — Data Link

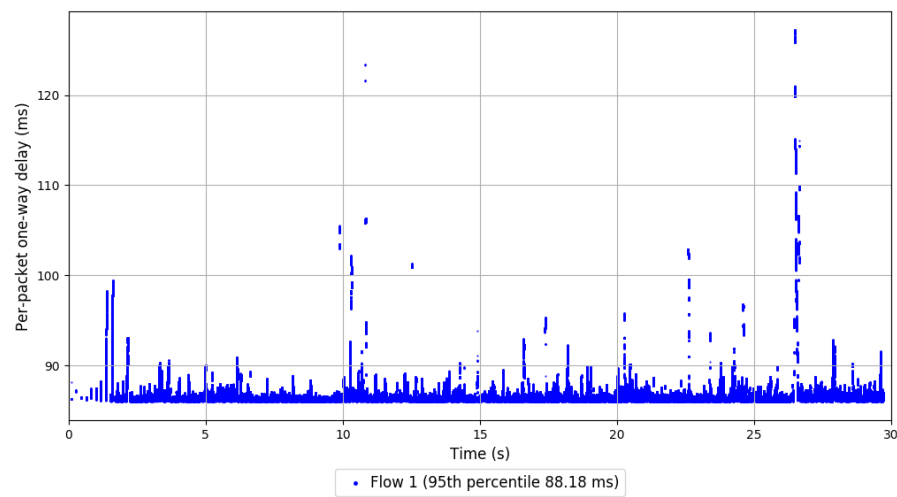
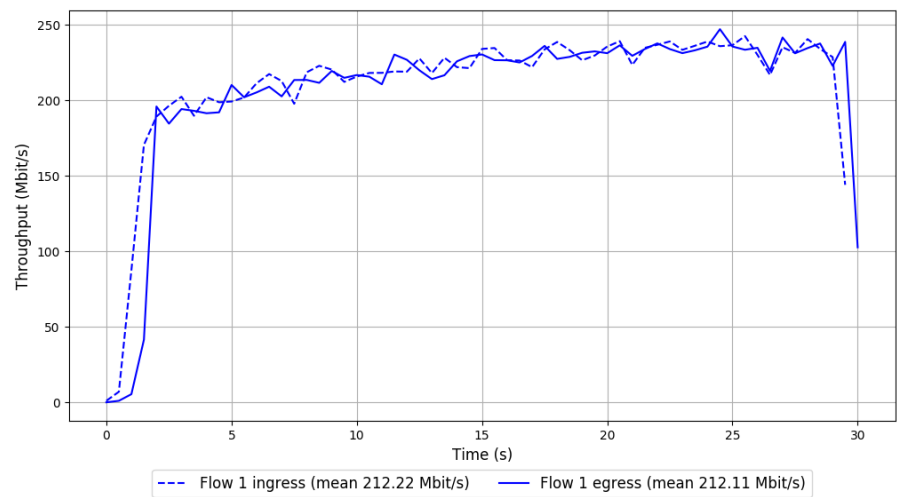


Run 2: Statistics of Indigo

Start at: 2019-06-27 01:28:49  
End at: 2019-06-27 01:29:19  
Local clock offset: 22.772 ms  
Remote clock offset: 21.103 ms

# Below is generated by plot.py at 2019-06-27 04:28:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 212.11 Mbit/s  
95th percentile per-packet one-way delay: 88.178 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 212.11 Mbit/s  
95th percentile per-packet one-way delay: 88.178 ms  
Loss rate: 0.64%

Run 2: Report of Indigo — Data Link

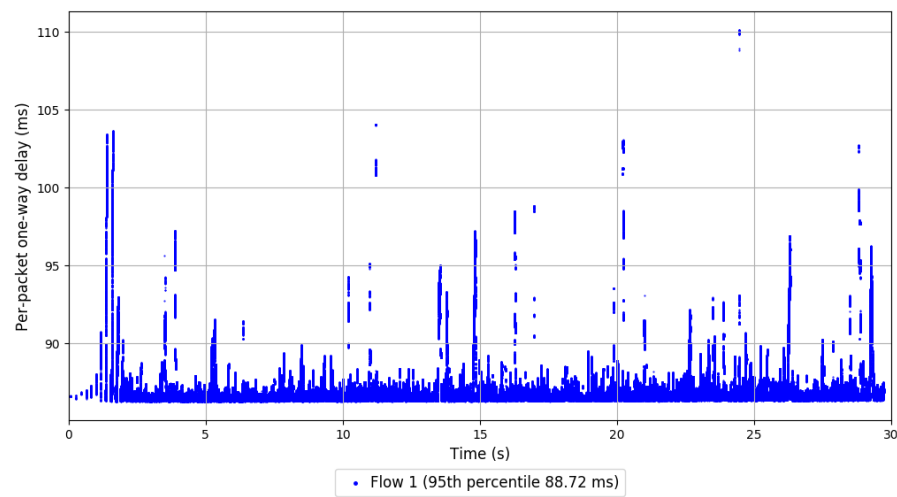
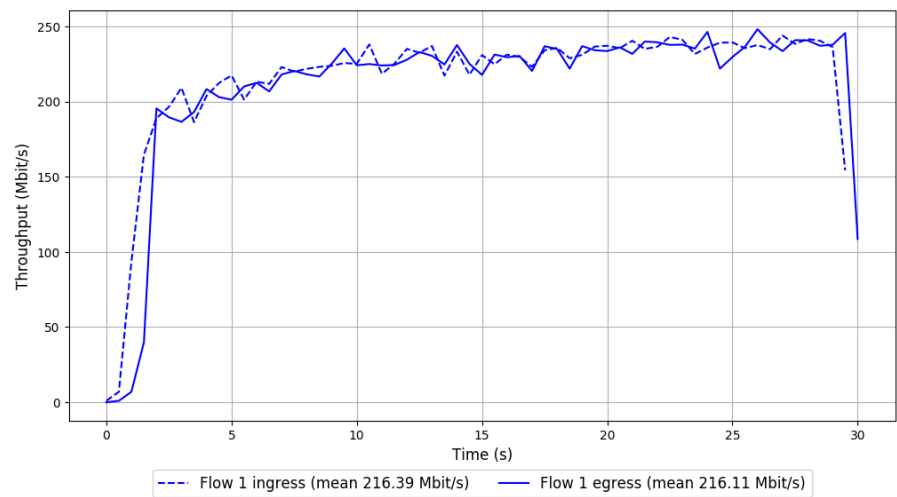


Run 3: Statistics of Indigo

Start at: 2019-06-27 02:00:35  
End at: 2019-06-27 02:01:05  
Local clock offset: 30.262 ms  
Remote clock offset: 27.923 ms

# Below is generated by plot.py at 2019-06-27 04:28:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 216.11 Mbit/s  
95th percentile per-packet one-way delay: 88.723 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 216.11 Mbit/s  
95th percentile per-packet one-way delay: 88.723 ms  
Loss rate: 0.71%

Run 3: Report of Indigo — Data Link



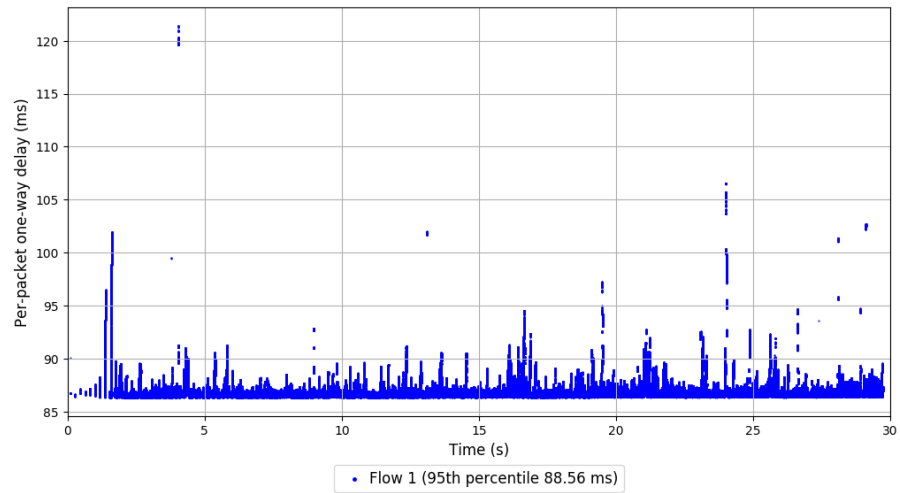
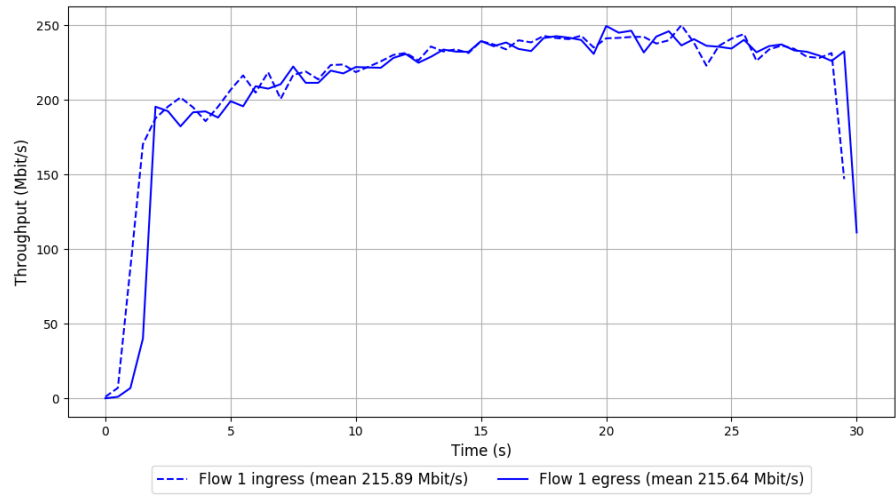


Run 4: Statistics of Indigo

Start at: 2019-06-27 02:32:26  
End at: 2019-06-27 02:32:56  
Local clock offset: 18.676 ms  
Remote clock offset: 17.016 ms

# Below is generated by plot.py at 2019-06-27 04:28:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 215.64 Mbit/s  
95th percentile per-packet one-way delay: 88.558 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 215.64 Mbit/s  
95th percentile per-packet one-way delay: 88.558 ms  
Loss rate: 0.71%

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



Run 5: Statistics of Indigo

Start at: 2019-06-27 03:04:39

End at: 2019-06-27 03:05:09

Local clock offset: 5.256 ms

Remote clock offset: 4.963 ms

# Below is generated by plot.py at 2019-06-27 04:28:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 205.00 Mbit/s

95th percentile per-packet one-way delay: 87.614 ms

Loss rate: 0.69%

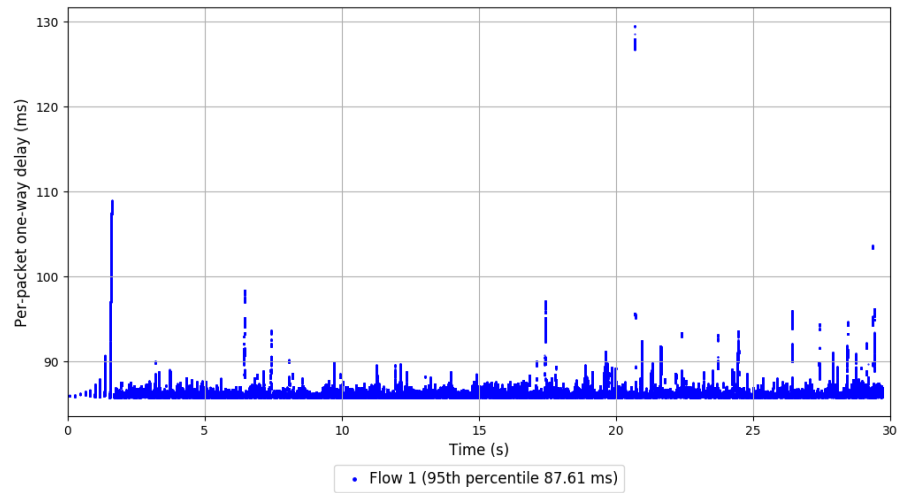
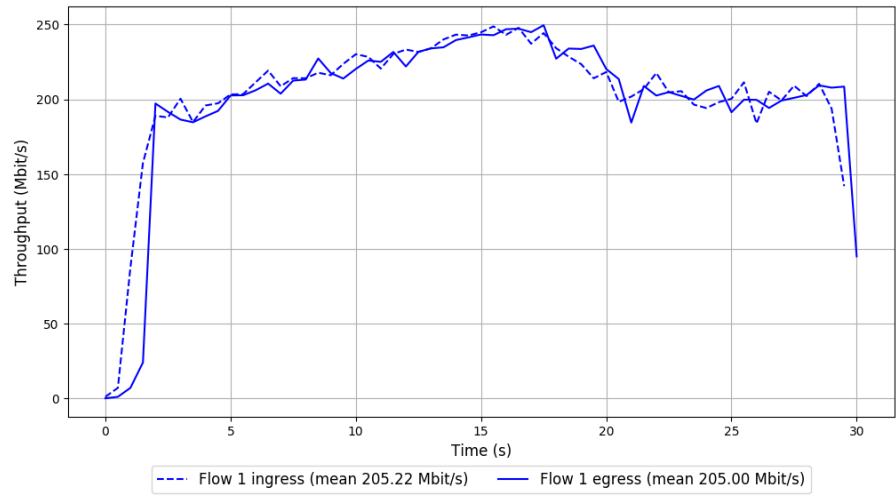
-- Flow 1:

Average throughput: 205.00 Mbit/s

95th percentile per-packet one-way delay: 87.614 ms

Loss rate: 0.69%

## Run 5: Report of Indigo — Data Link

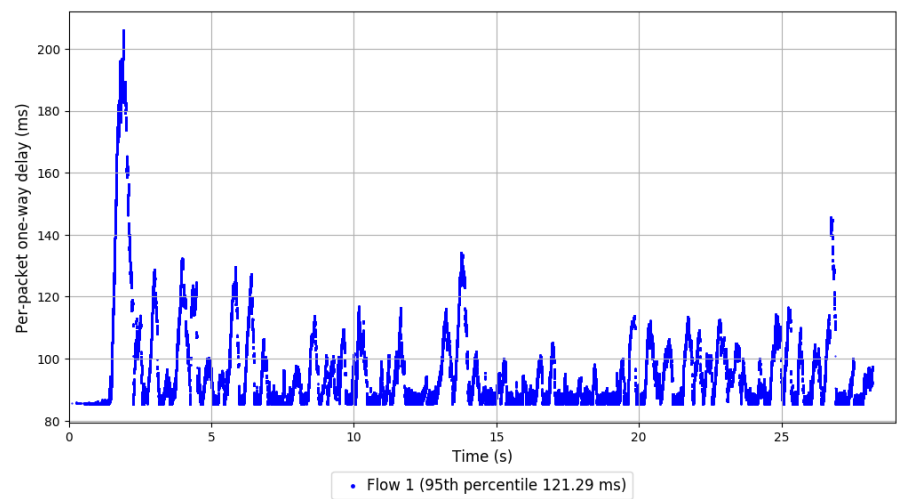
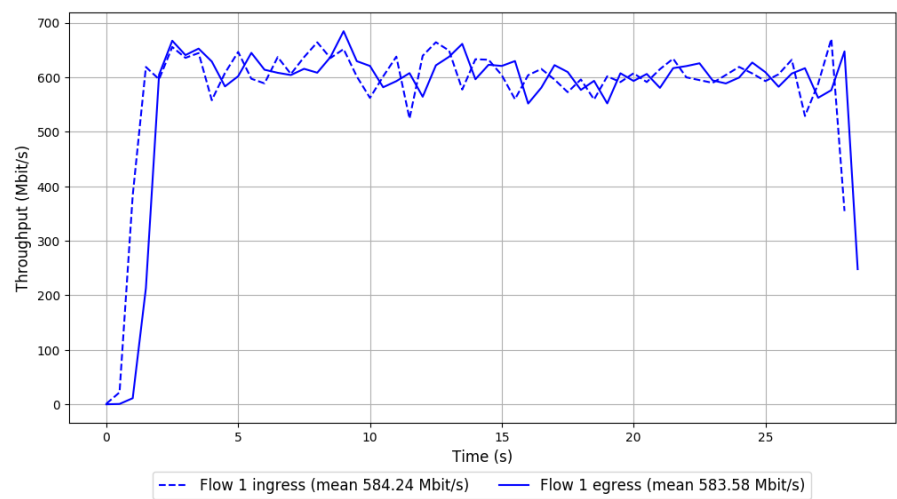


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-06-27 01:11:10  
End at: 2019-06-27 01:11:40  
Local clock offset: 15.028 ms  
Remote clock offset: 14.719 ms

# Below is generated by plot.py at 2019-06-27 04:28:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 583.58 Mbit/s  
95th percentile per-packet one-way delay: 121.287 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 583.58 Mbit/s  
95th percentile per-packet one-way delay: 121.287 ms  
Loss rate: 0.73%

Run 1: Report of Indigo-MusesC3 — Data Link

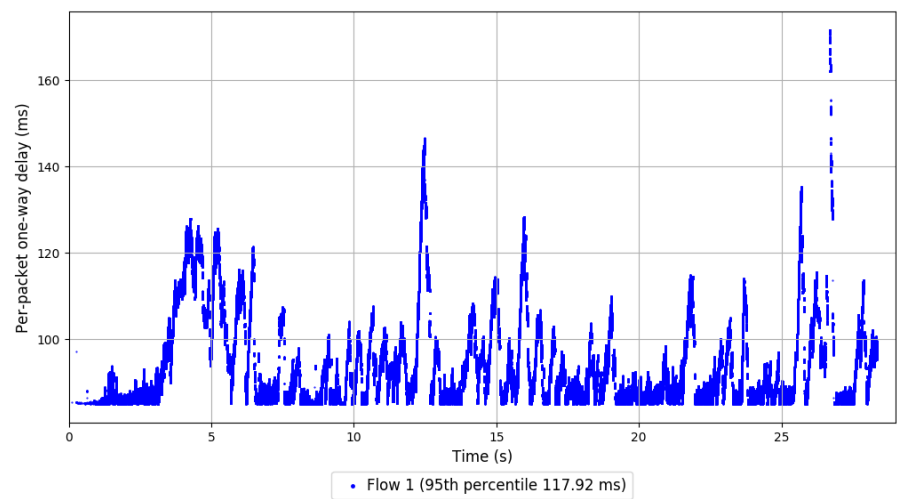
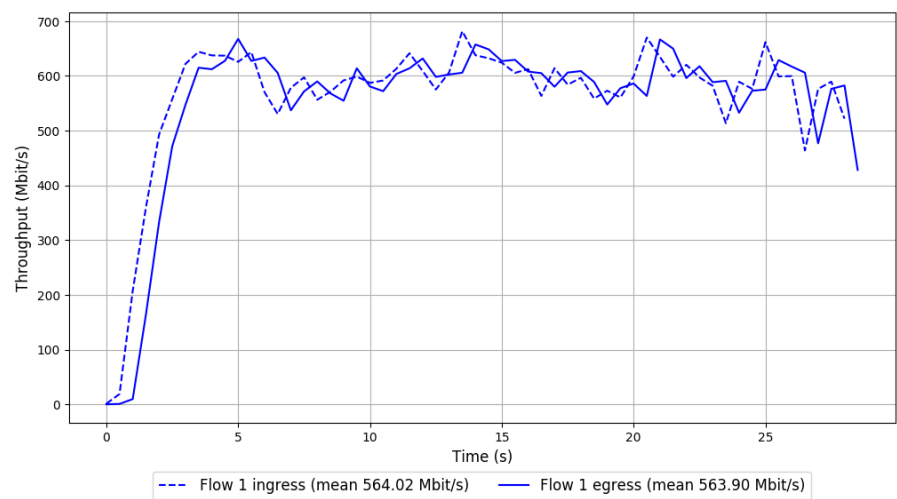


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-06-27 01:42:53  
End at: 2019-06-27 01:43:23  
Local clock offset: 29.375 ms  
Remote clock offset: 27.923 ms

# Below is generated by plot.py at 2019-06-27 04:28:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 563.90 Mbit/s  
95th percentile per-packet one-way delay: 117.920 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 563.90 Mbit/s  
95th percentile per-packet one-way delay: 117.920 ms  
Loss rate: 0.63%

Run 2: Report of Indigo-MusesC3 — Data Link



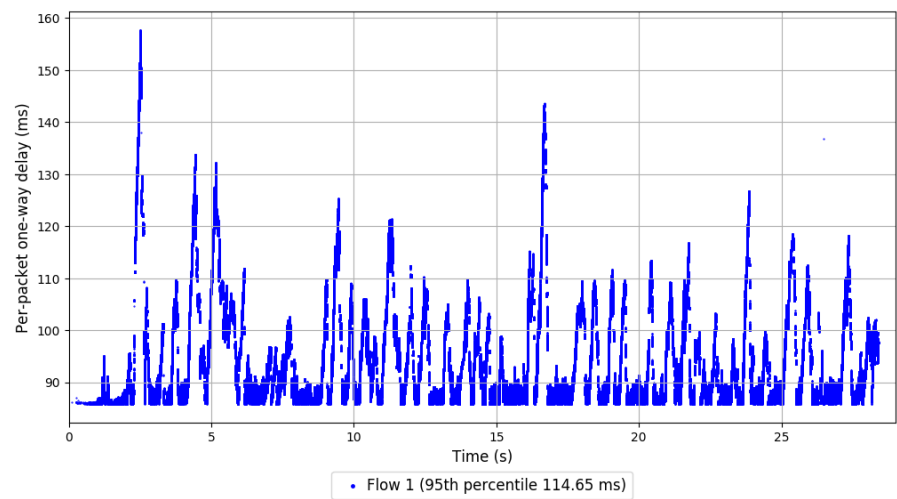
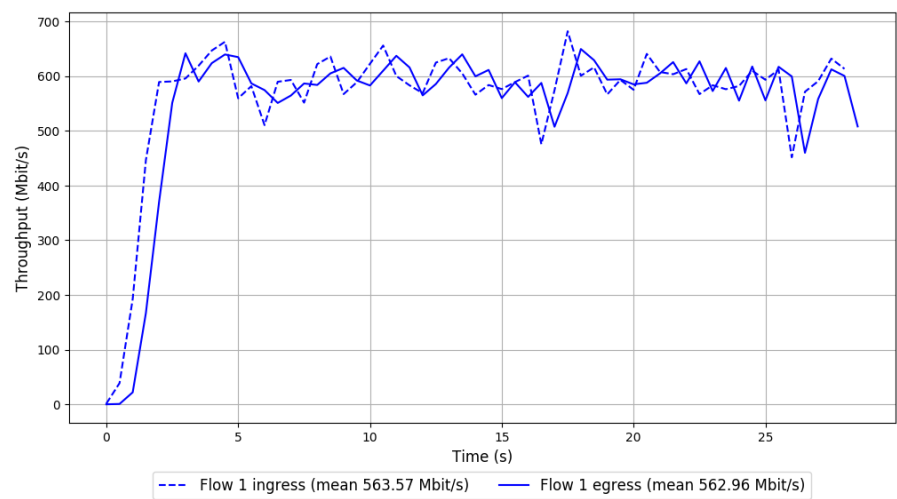


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-06-27 02:14:28  
End at: 2019-06-27 02:14:58  
Local clock offset: 16.849 ms  
Remote clock offset: 15.899 ms

# Below is generated by plot.py at 2019-06-27 04:33:03  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 562.96 Mbit/s  
95th percentile per-packet one-way delay: 114.651 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 562.96 Mbit/s  
95th percentile per-packet one-way delay: 114.651 ms  
Loss rate: 0.72%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-06-27 02:46:45

End at: 2019-06-27 02:47:15

Local clock offset: 5.735 ms

Remote clock offset: 5.328 ms

# Below is generated by plot.py at 2019-06-27 04:33:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 569.52 Mbit/s

95th percentile per-packet one-way delay: 109.849 ms

Loss rate: 0.78%

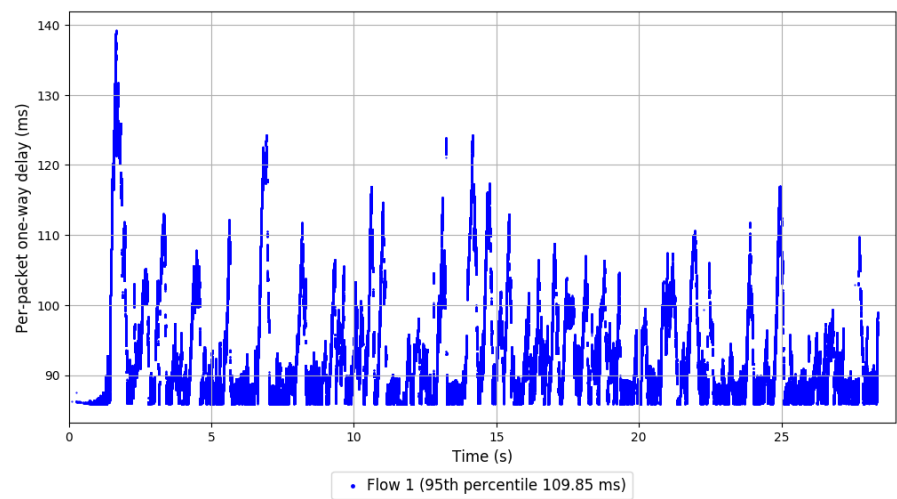
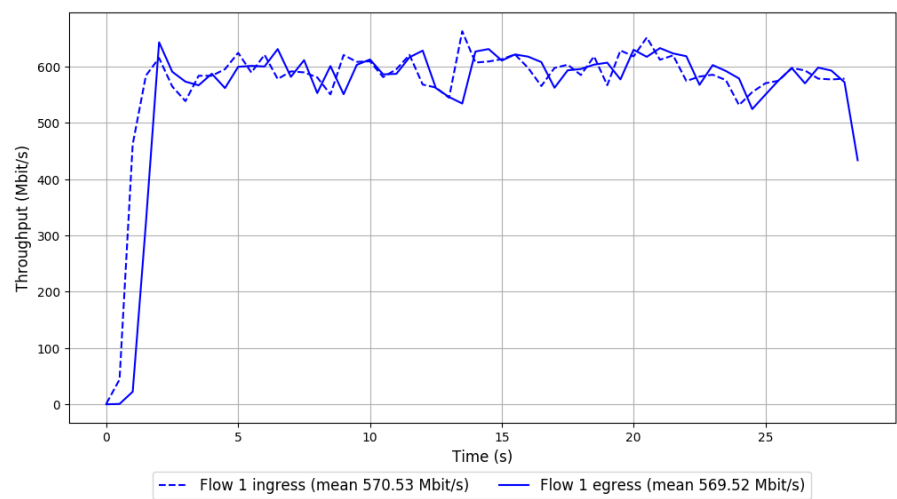
-- Flow 1:

Average throughput: 569.52 Mbit/s

95th percentile per-packet one-way delay: 109.849 ms

Loss rate: 0.78%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-06-27 03:18:58

End at: 2019-06-27 03:19:28

Local clock offset: 1.904 ms

Remote clock offset: 1.745 ms

# Below is generated by plot.py at 2019-06-27 04:33:28

# Datalink statistics

-- Total of 1 flow:

Average throughput: 555.10 Mbit/s

95th percentile per-packet one-way delay: 107.421 ms

Loss rate: 0.73%

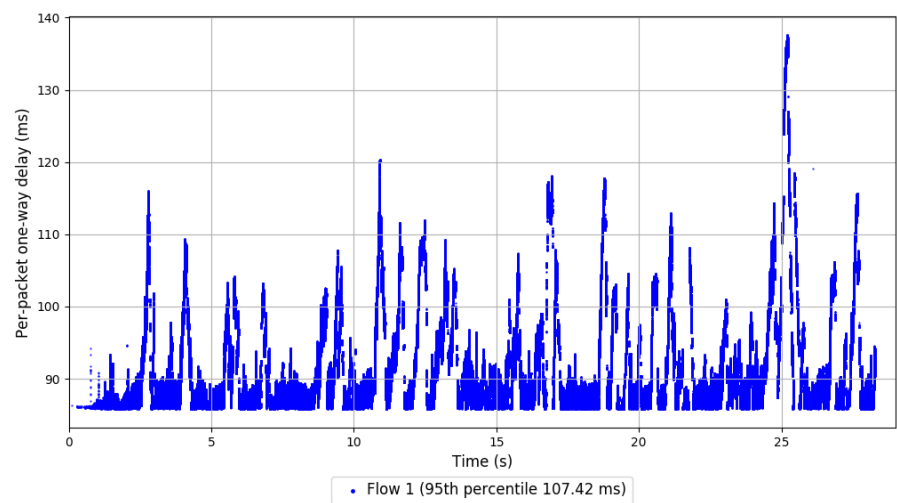
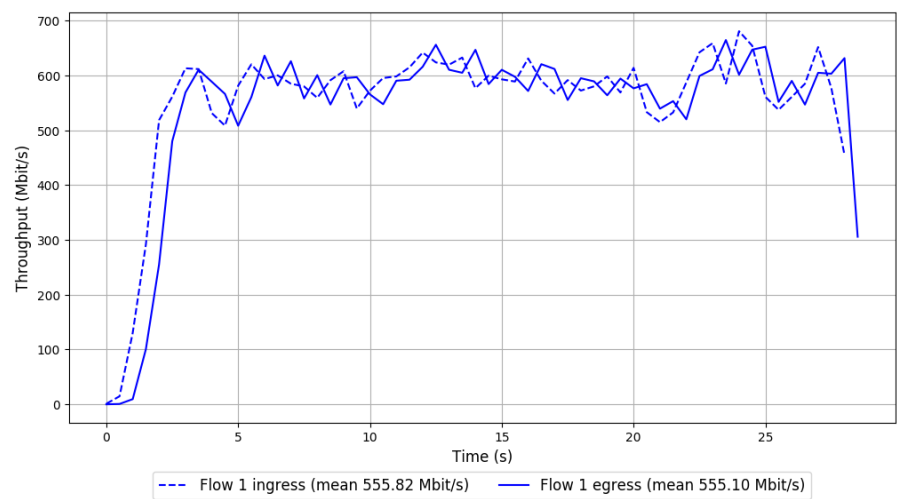
-- Flow 1:

Average throughput: 555.10 Mbit/s

95th percentile per-packet one-way delay: 107.421 ms

Loss rate: 0.73%

Run 5: Report of Indigo-MusesC3 — Data Link

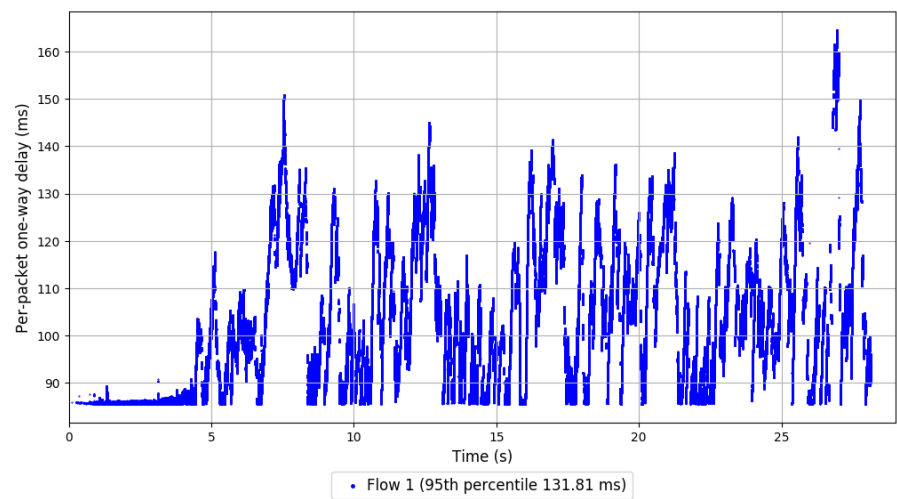
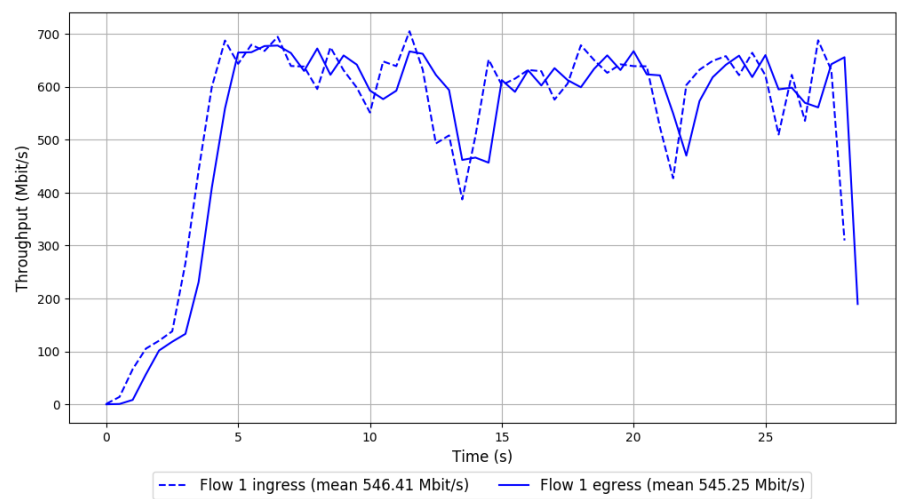


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-06-27 01:18:07  
End at: 2019-06-27 01:18:37  
Local clock offset: 24.024 ms  
Remote clock offset: 22.605 ms

# Below is generated by plot.py at 2019-06-27 04:33:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 545.25 Mbit/s  
95th percentile per-packet one-way delay: 131.813 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 545.25 Mbit/s  
95th percentile per-packet one-way delay: 131.813 ms  
Loss rate: 0.82%

Run 1: Report of Indigo-MusesC5 — Data Link



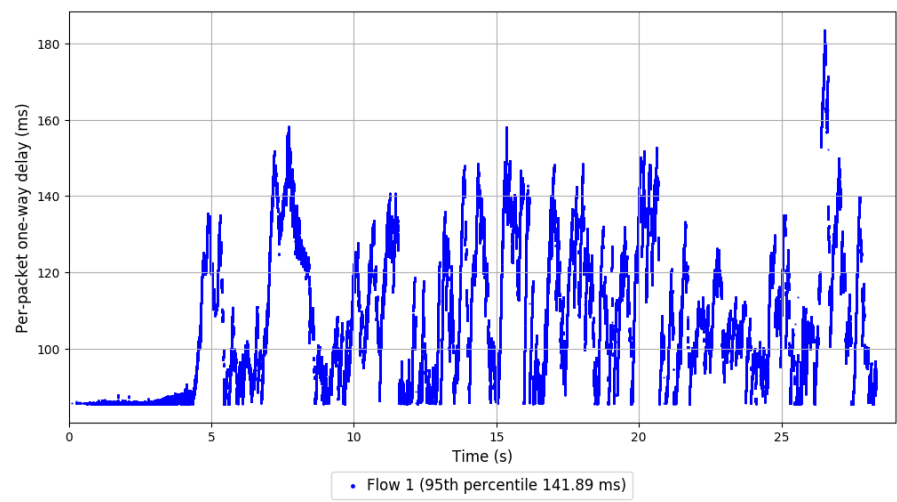
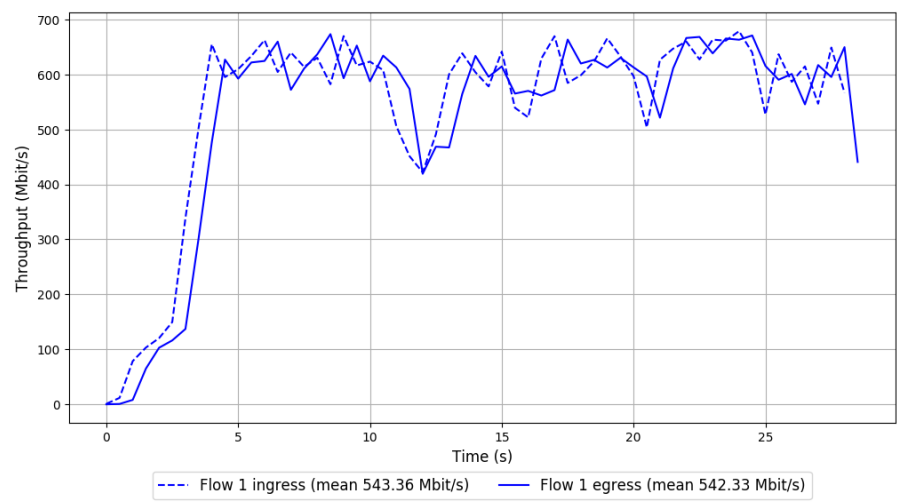


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-06-27 01:49:55  
End at: 2019-06-27 01:50:25  
Local clock offset: 37.68 ms  
Remote clock offset: 35.286 ms

# Below is generated by plot.py at 2019-06-27 04:33:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 542.33 Mbit/s  
95th percentile per-packet one-way delay: 141.890 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 542.33 Mbit/s  
95th percentile per-packet one-way delay: 141.890 ms  
Loss rate: 0.79%

Run 2: Report of Indigo-MusesC5 — Data Link

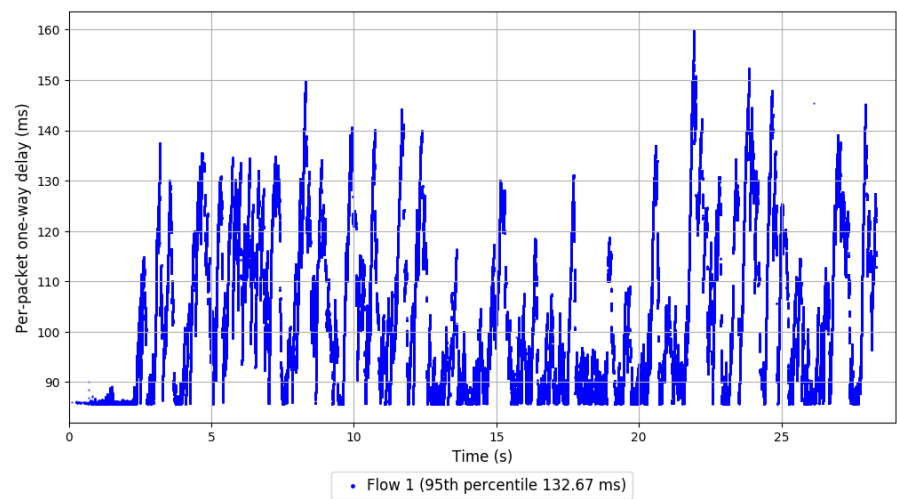
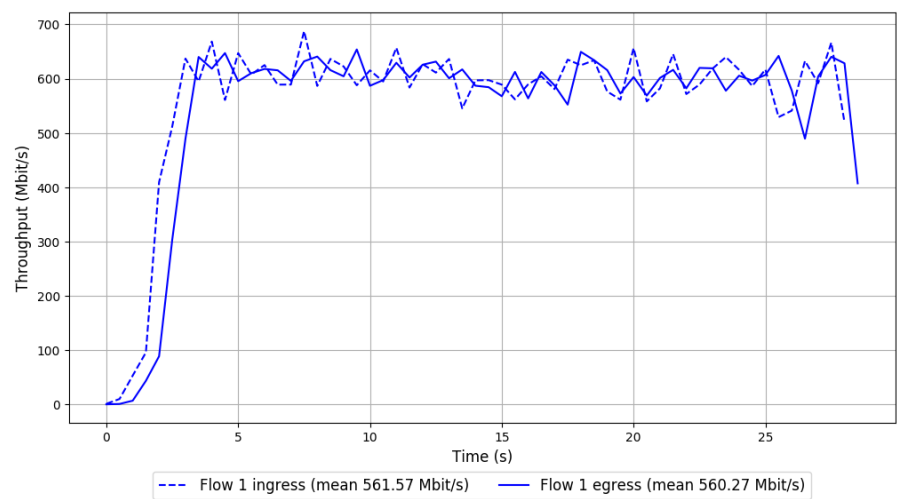


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-06-27 02:21:37  
End at: 2019-06-27 02:22:07  
Local clock offset: 18.712 ms  
Remote clock offset: 17.463 ms

# Below is generated by plot.py at 2019-06-27 04:38:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 560.27 Mbit/s  
95th percentile per-packet one-way delay: 132.674 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 560.27 Mbit/s  
95th percentile per-packet one-way delay: 132.674 ms  
Loss rate: 0.84%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-06-27 02:53:54

End at: 2019-06-27 02:54:24

Local clock offset: 4.827 ms

Remote clock offset: 4.549 ms

# Below is generated by plot.py at 2019-06-27 04:38:06

# Datalink statistics

-- Total of 1 flow:

Average throughput: 527.14 Mbit/s

95th percentile per-packet one-way delay: 184.983 ms

Loss rate: 1.41%

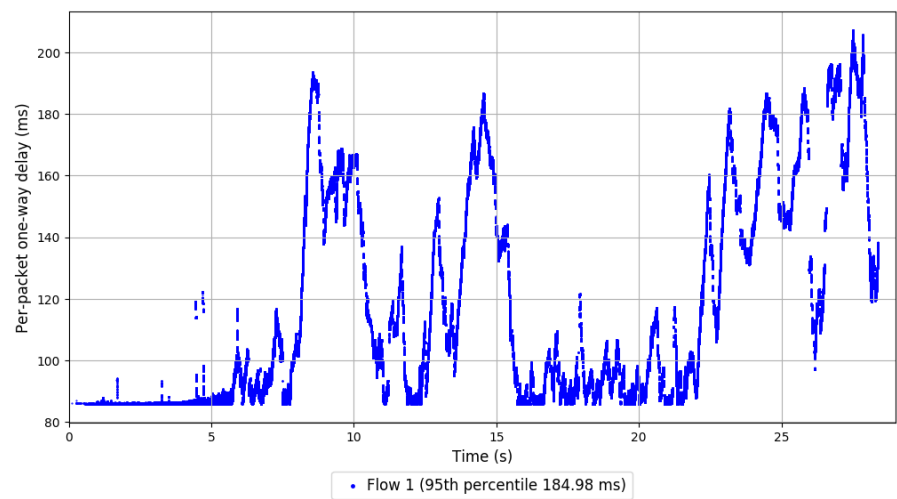
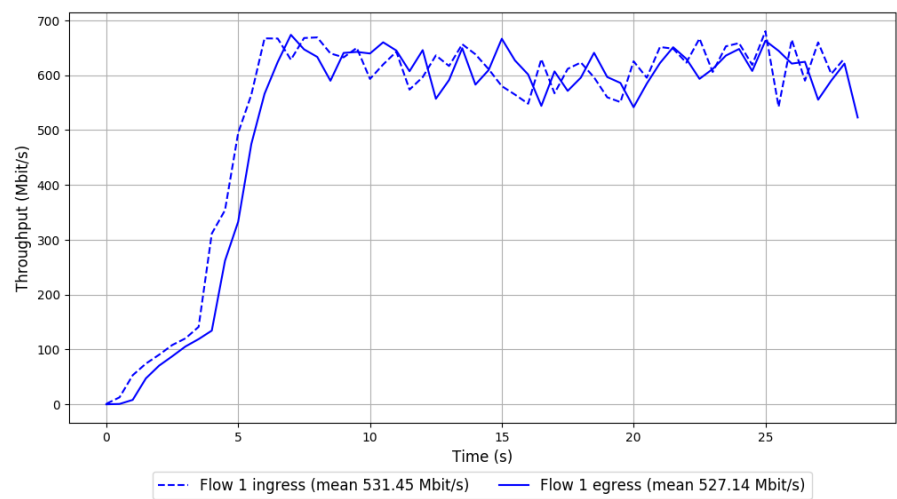
-- Flow 1:

Average throughput: 527.14 Mbit/s

95th percentile per-packet one-way delay: 184.983 ms

Loss rate: 1.41%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-06-27 03:26:06

End at: 2019-06-27 03:26:36

Local clock offset: 1.383 ms

Remote clock offset: 1.671 ms

# Below is generated by plot.py at 2019-06-27 04:40:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 576.11 Mbit/s

95th percentile per-packet one-way delay: 149.707 ms

Loss rate: 0.78%

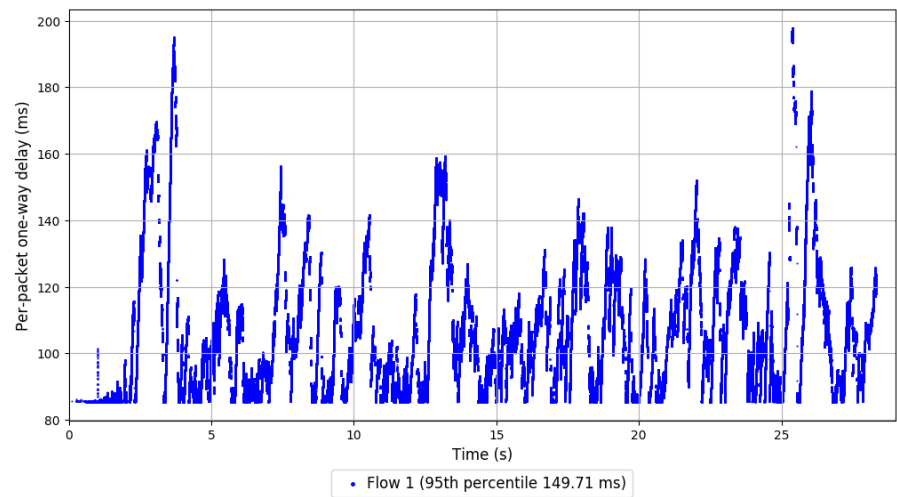
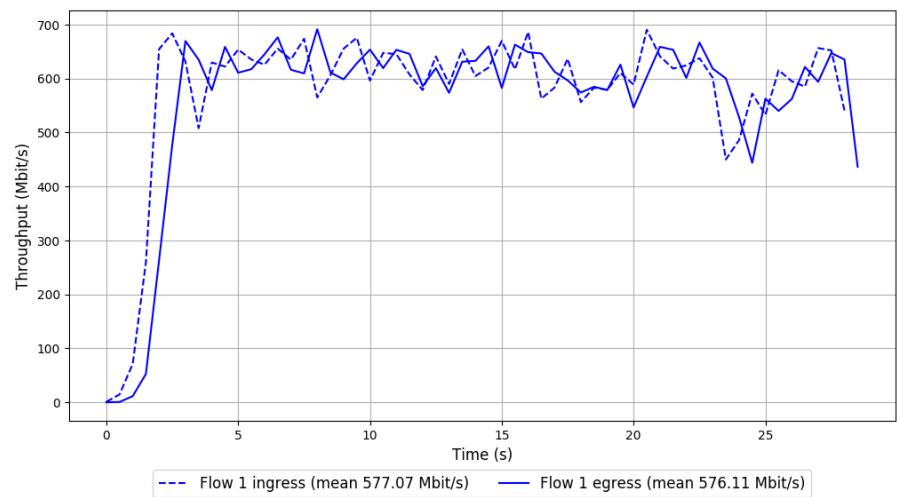
-- Flow 1:

Average throughput: 576.11 Mbit/s

95th percentile per-packet one-way delay: 149.707 ms

Loss rate: 0.78%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-06-27 01:05:28

End at: 2019-06-27 01:05:58

Local clock offset: 19.514 ms

Remote clock offset: 17.595 ms

# Below is generated by plot.py at 2019-06-27 04:42:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 487.90 Mbit/s

95th percentile per-packet one-way delay: 127.744 ms

Loss rate: 0.68%

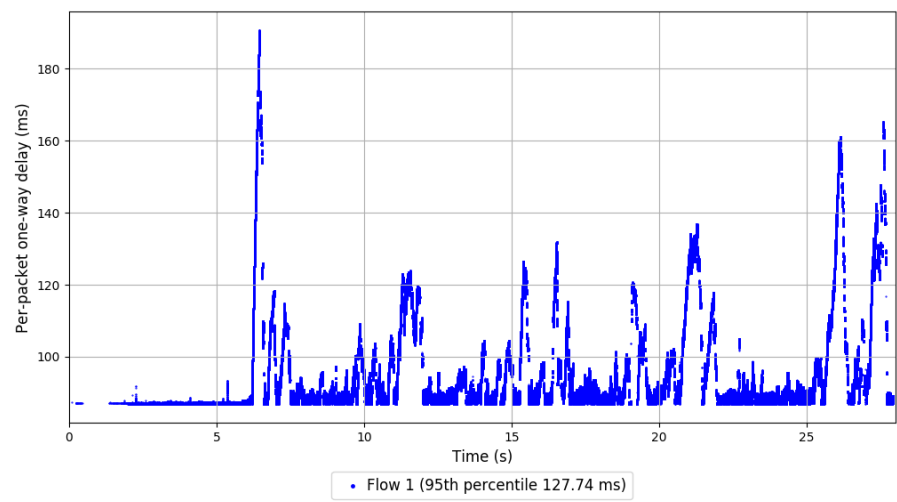
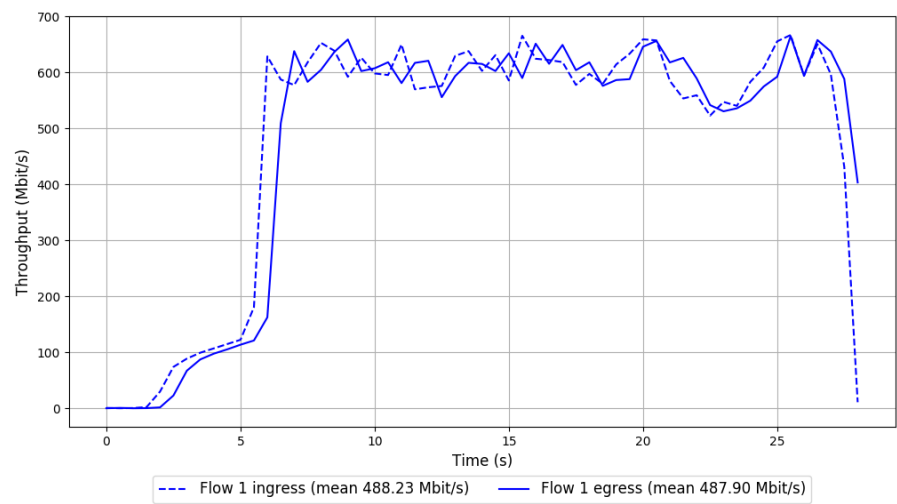
-- Flow 1:

Average throughput: 487.90 Mbit/s

95th percentile per-packet one-way delay: 127.744 ms

Loss rate: 0.68%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-06-27 01:37:26

End at: 2019-06-27 01:37:56

Local clock offset: 24.958 ms

Remote clock offset: 23.433 ms

# Below is generated by plot.py at 2019-06-27 04:42:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 437.77 Mbit/s

95th percentile per-packet one-way delay: 111.693 ms

Loss rate: 0.70%

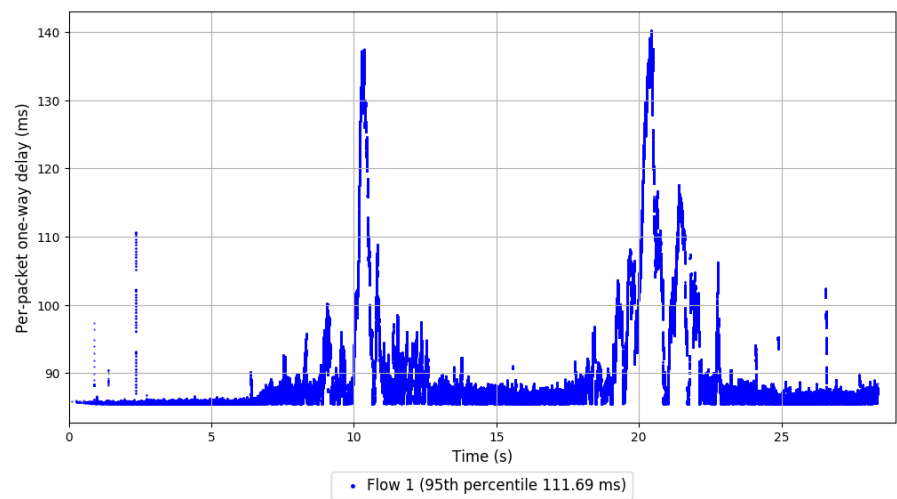
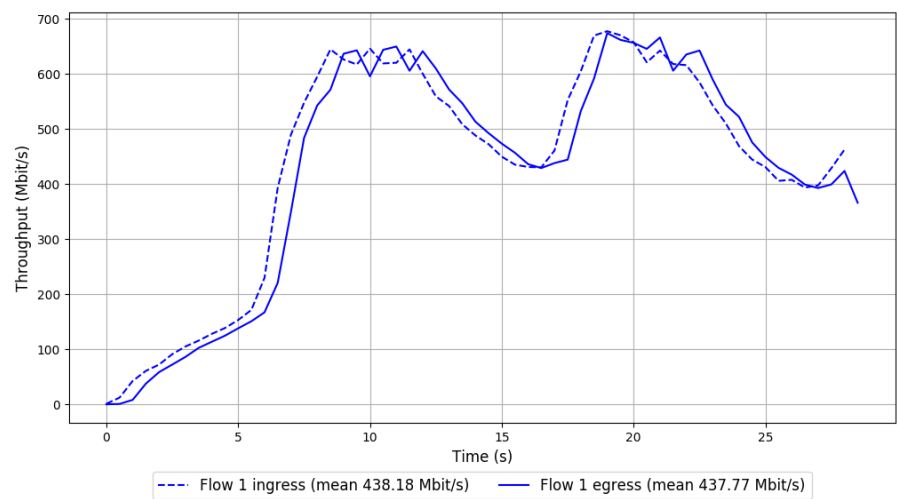
-- Flow 1:

Average throughput: 437.77 Mbit/s

95th percentile per-packet one-way delay: 111.693 ms

Loss rate: 0.70%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-06-27 02:08:46

End at: 2019-06-27 02:09:16

Local clock offset: 18.531 ms

Remote clock offset: 17.193 ms

# Below is generated by plot.py at 2019-06-27 04:42:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 416.63 Mbit/s

95th percentile per-packet one-way delay: 131.796 ms

Loss rate: 0.89%

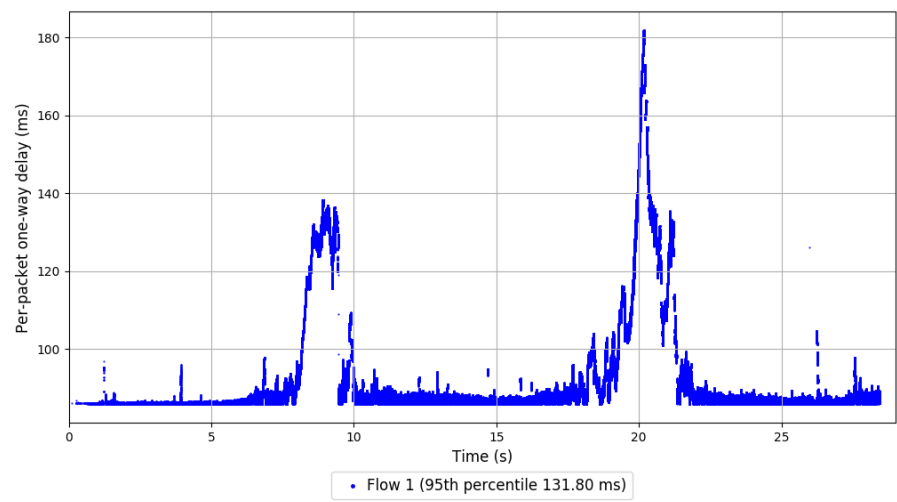
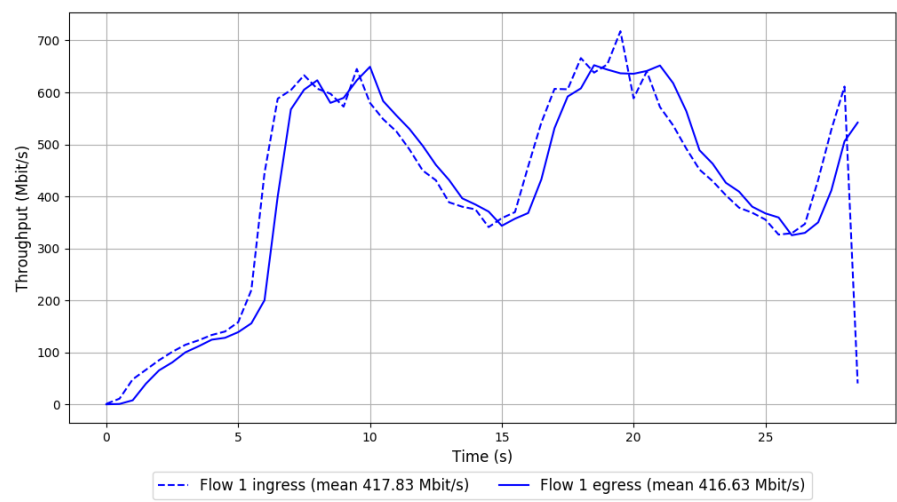
-- Flow 1:

Average throughput: 416.63 Mbit/s

95th percentile per-packet one-way delay: 131.796 ms

Loss rate: 0.89%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-06-27 02:41:00

End at: 2019-06-27 02:41:30

Local clock offset: 8.237 ms

Remote clock offset: 7.586 ms

# Below is generated by plot.py at 2019-06-27 04:43:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 529.72 Mbit/s

95th percentile per-packet one-way delay: 139.275 ms

Loss rate: 0.91%

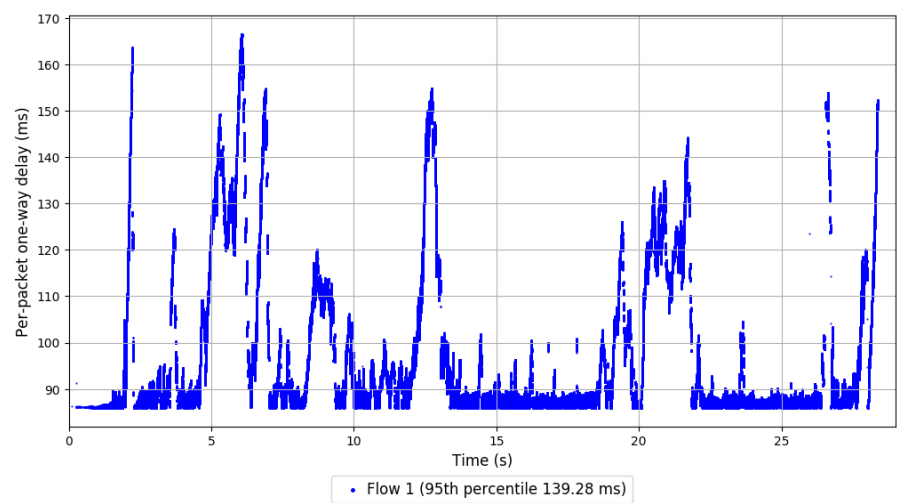
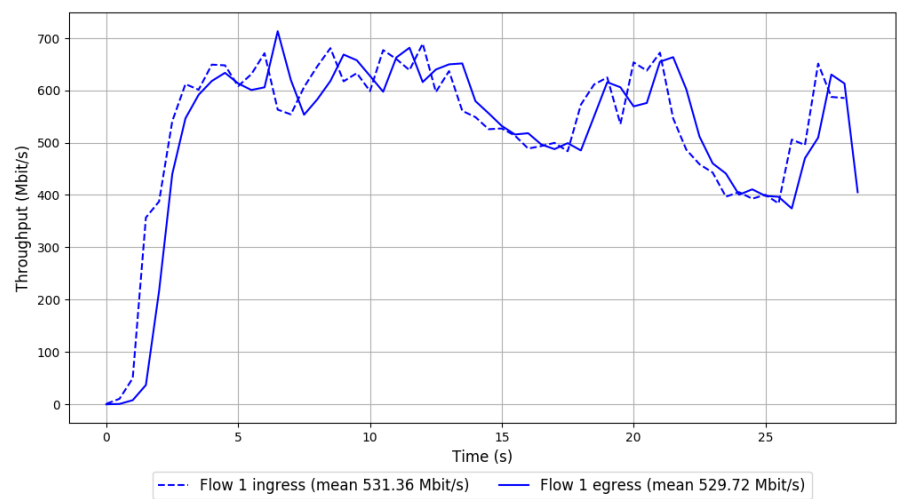
-- Flow 1:

Average throughput: 529.72 Mbit/s

95th percentile per-packet one-way delay: 139.275 ms

Loss rate: 0.91%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-06-27 03:13:16

End at: 2019-06-27 03:13:46

Local clock offset: 2.505 ms

Remote clock offset: 2.303 ms

# Below is generated by plot.py at 2019-06-27 04:43:35

# Datalink statistics

-- Total of 1 flow:

Average throughput: 512.42 Mbit/s

95th percentile per-packet one-way delay: 125.230 ms

Loss rate: 0.53%

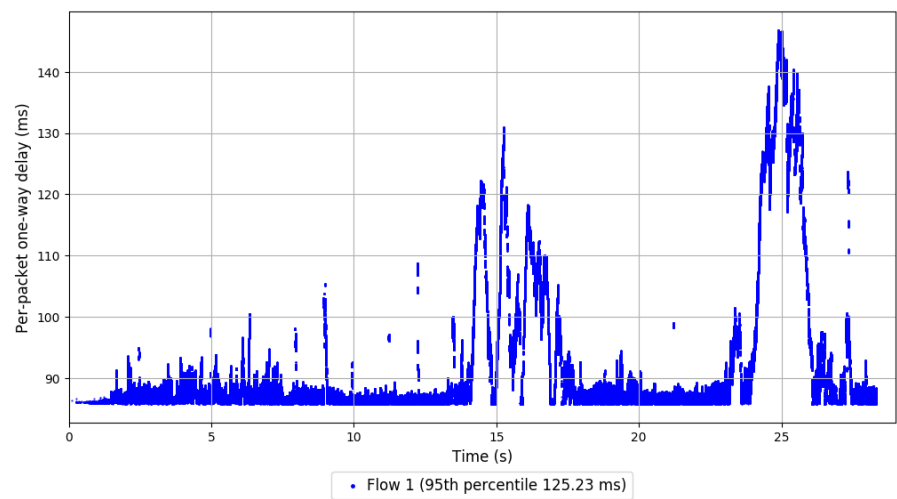
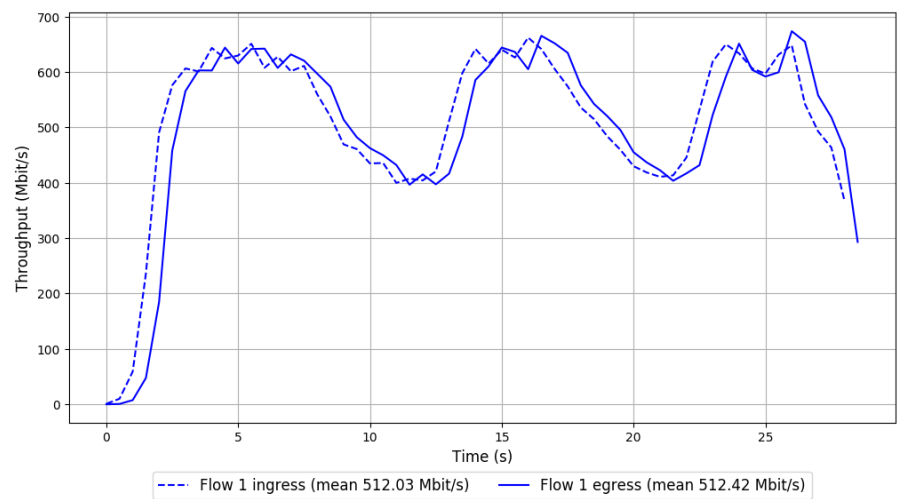
-- Flow 1:

Average throughput: 512.42 Mbit/s

95th percentile per-packet one-way delay: 125.230 ms

Loss rate: 0.53%

Run 5: Report of Indigo-MusesD — Data Link

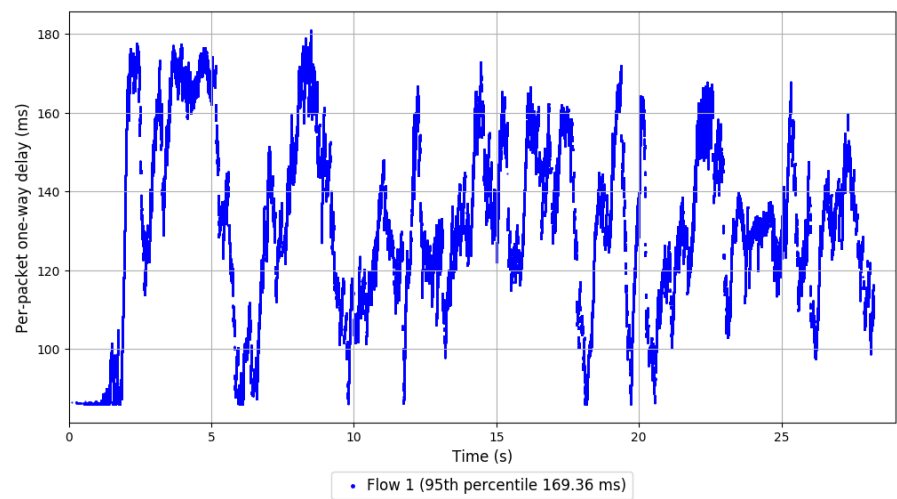
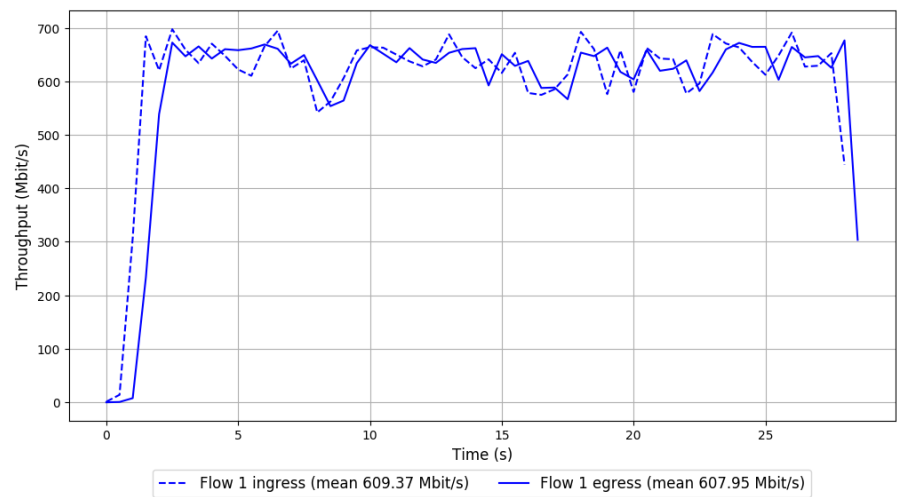


Run 1: Statistics of Indigo-MusesT

Start at: 2019-06-27 01:12:47  
End at: 2019-06-27 01:13:17  
Local clock offset: 16.957 ms  
Remote clock offset: 15.929 ms

# Below is generated by plot.py at 2019-06-27 04:48:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 607.95 Mbit/s  
95th percentile per-packet one-way delay: 169.363 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 607.95 Mbit/s  
95th percentile per-packet one-way delay: 169.363 ms  
Loss rate: 0.84%

Run 1: Report of Indigo-MusesT — Data Link

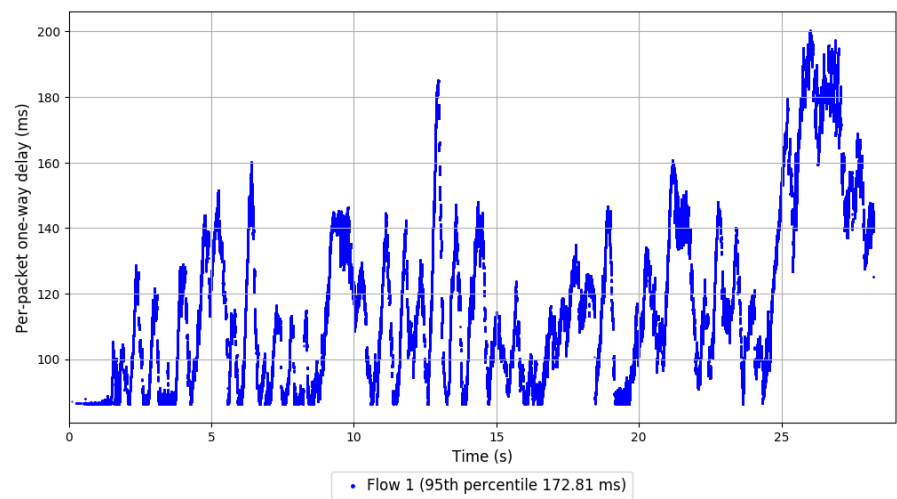
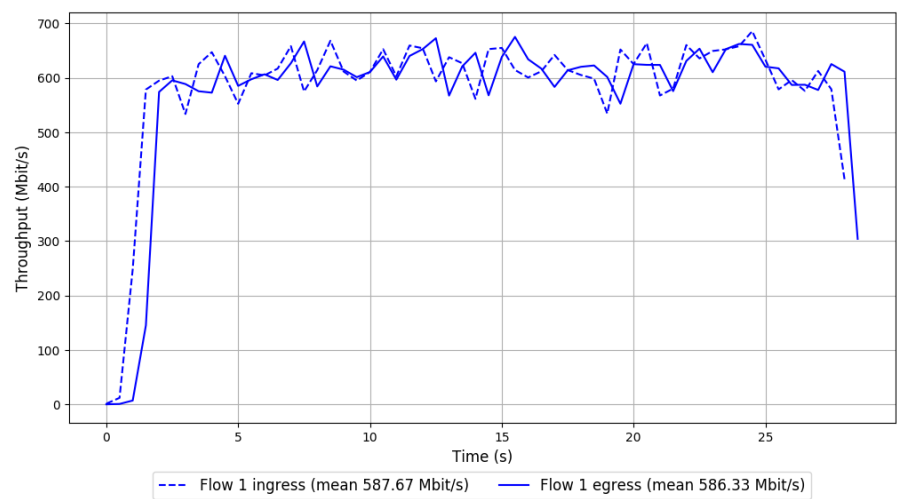


Run 2: Statistics of Indigo-MusesT

Start at: 2019-06-27 01:44:29  
End at: 2019-06-27 01:44:59  
Local clock offset: 31.916 ms  
Remote clock offset: 29.411 ms

# Below is generated by plot.py at 2019-06-27 04:49:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 586.33 Mbit/s  
95th percentile per-packet one-way delay: 172.814 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 586.33 Mbit/s  
95th percentile per-packet one-way delay: 172.814 ms  
Loss rate: 0.83%

Run 2: Report of Indigo-MusesT — Data Link

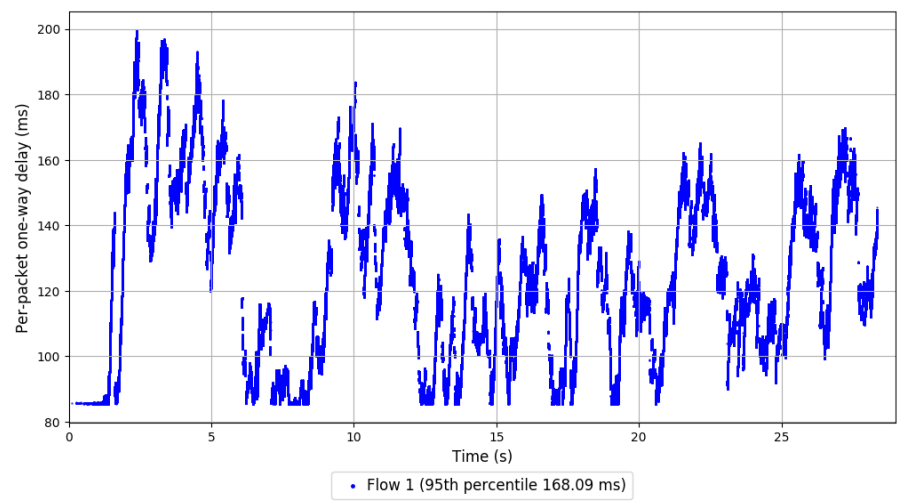
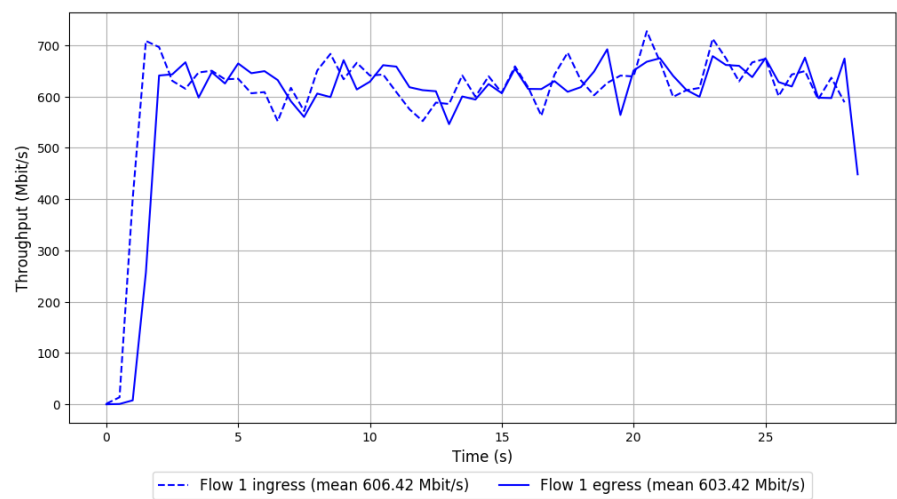


Run 3: Statistics of Indigo-MusesT

Start at: 2019-06-27 02:16:05  
End at: 2019-06-27 02:16:35  
Local clock offset: 16.928 ms  
Remote clock offset: 16.064 ms

# Below is generated by plot.py at 2019-06-27 04:51:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 603.42 Mbit/s  
95th percentile per-packet one-way delay: 168.087 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 603.42 Mbit/s  
95th percentile per-packet one-way delay: 168.087 ms  
Loss rate: 1.10%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-06-27 02:48:23

End at: 2019-06-27 02:48:53

Local clock offset: 5.638 ms

Remote clock offset: 4.993 ms

# Below is generated by plot.py at 2019-06-27 04:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 619.91 Mbit/s

95th percentile per-packet one-way delay: 170.568 ms

Loss rate: 0.78%

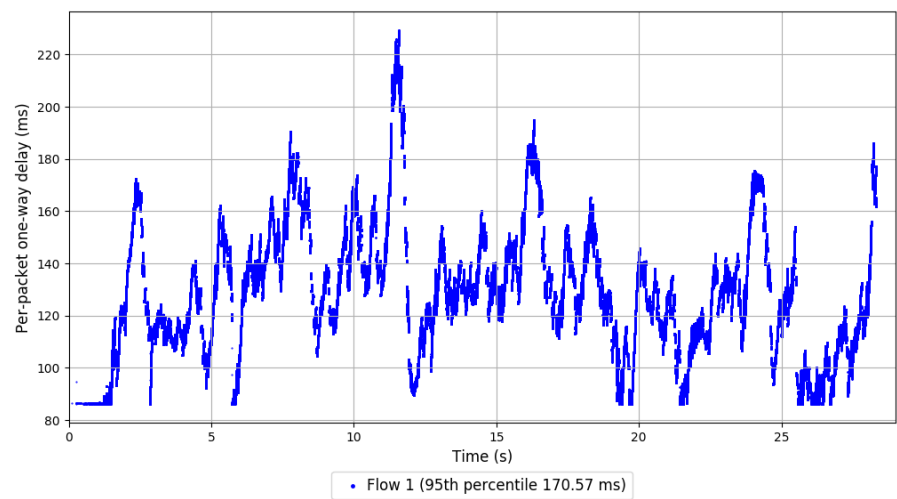
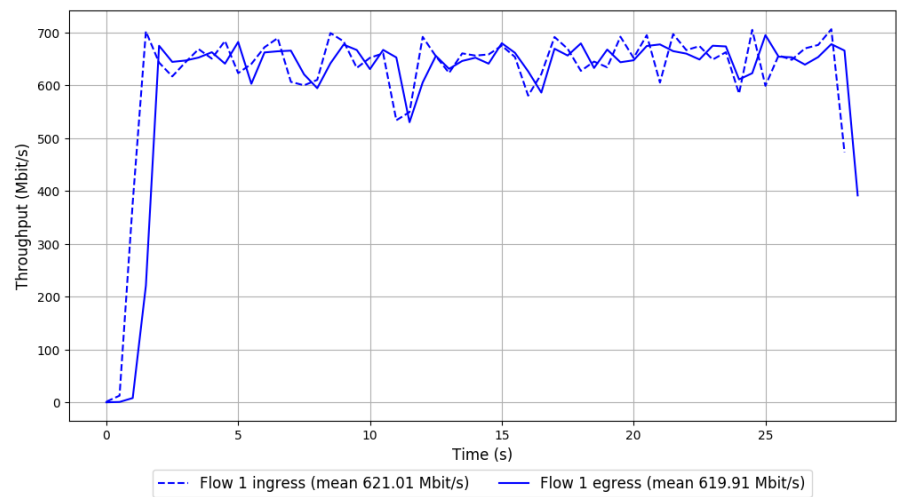
-- Flow 1:

Average throughput: 619.91 Mbit/s

95th percentile per-packet one-way delay: 170.568 ms

Loss rate: 0.78%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-06-27 03:20:35

End at: 2019-06-27 03:21:05

Local clock offset: 1.636 ms

Remote clock offset: 1.696 ms

# Below is generated by plot.py at 2019-06-27 04:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 598.85 Mbit/s

95th percentile per-packet one-way delay: 168.483 ms

Loss rate: 0.81%

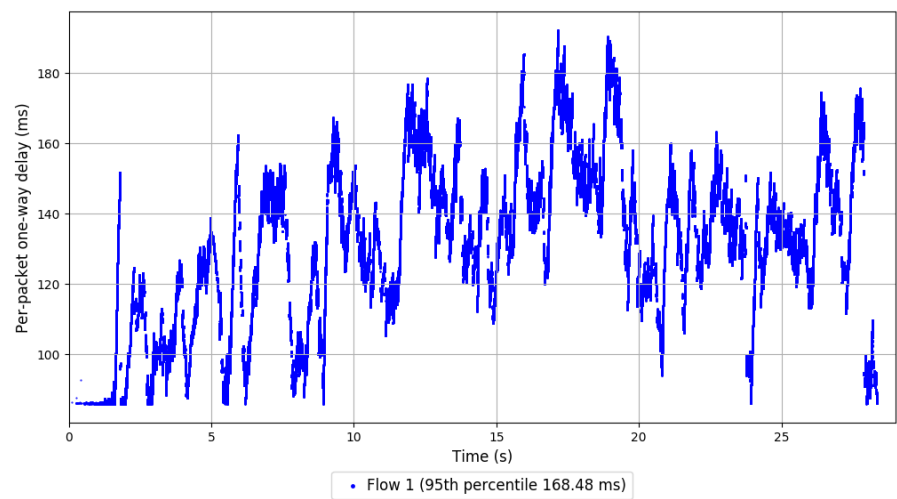
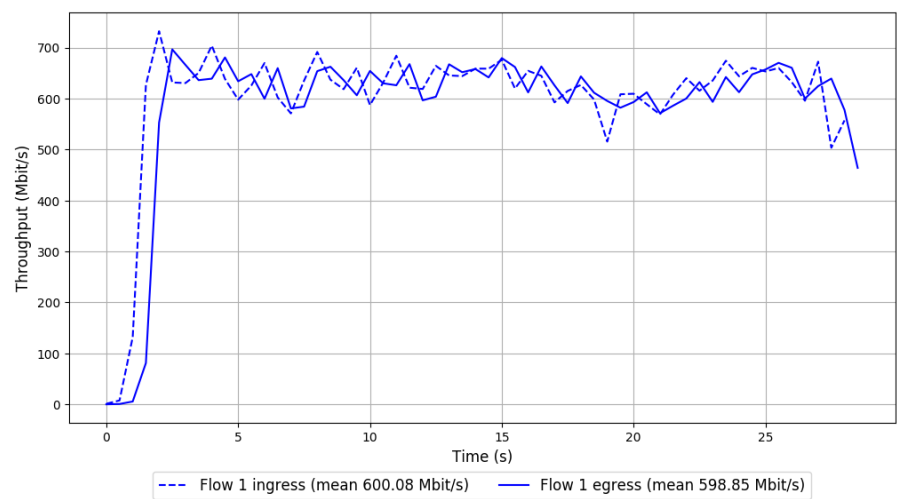
-- Flow 1:

Average throughput: 598.85 Mbit/s

95th percentile per-packet one-way delay: 168.483 ms

Loss rate: 0.81%

Run 5: Report of Indigo-MusesT — Data Link

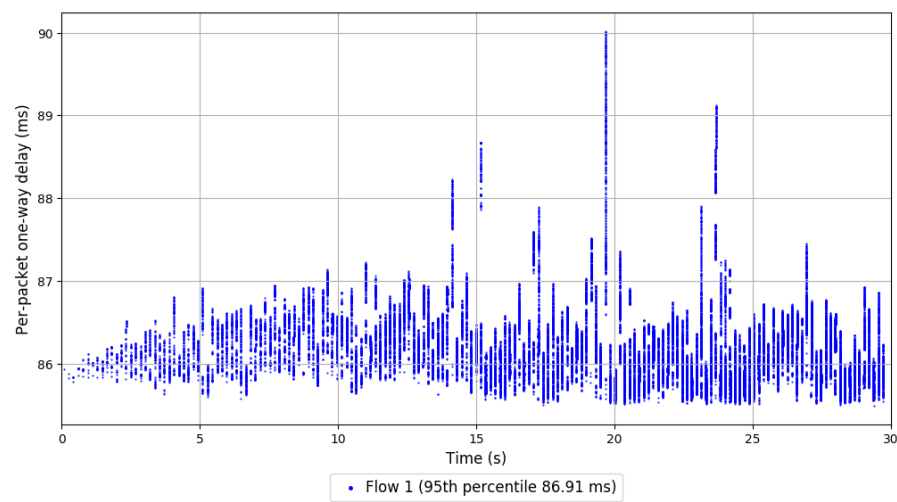
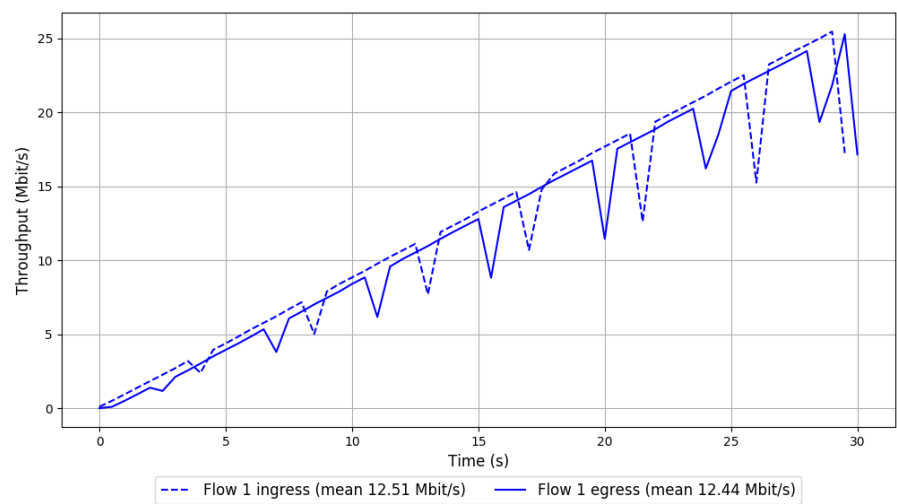


Run 1: Statistics of LEDBAT

Start at: 2019-06-27 01:03:09  
End at: 2019-06-27 01:03:39  
Local clock offset: 16.454 ms  
Remote clock offset: 15.499 ms

# Below is generated by plot.py at 2019-06-27 04:52:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.44 Mbit/s  
95th percentile per-packet one-way delay: 86.910 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 12.44 Mbit/s  
95th percentile per-packet one-way delay: 86.910 ms  
Loss rate: 1.16%

Run 1: Report of LEDBAT — Data Link

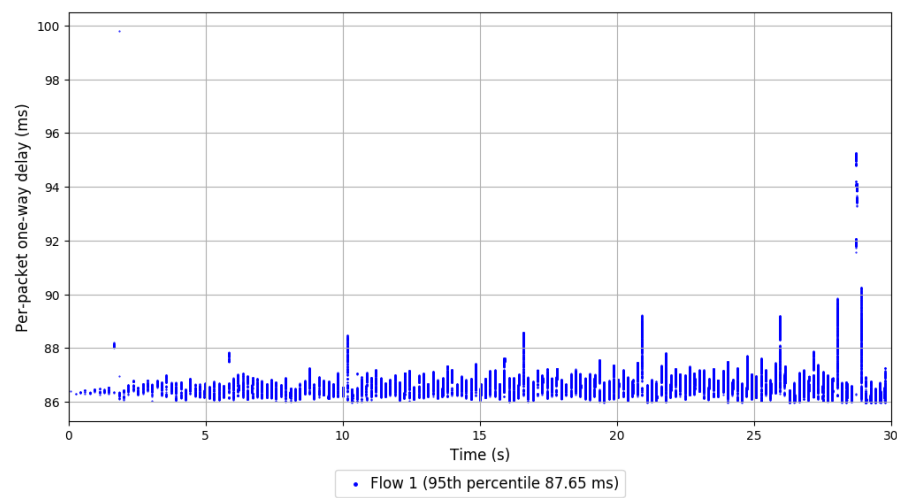
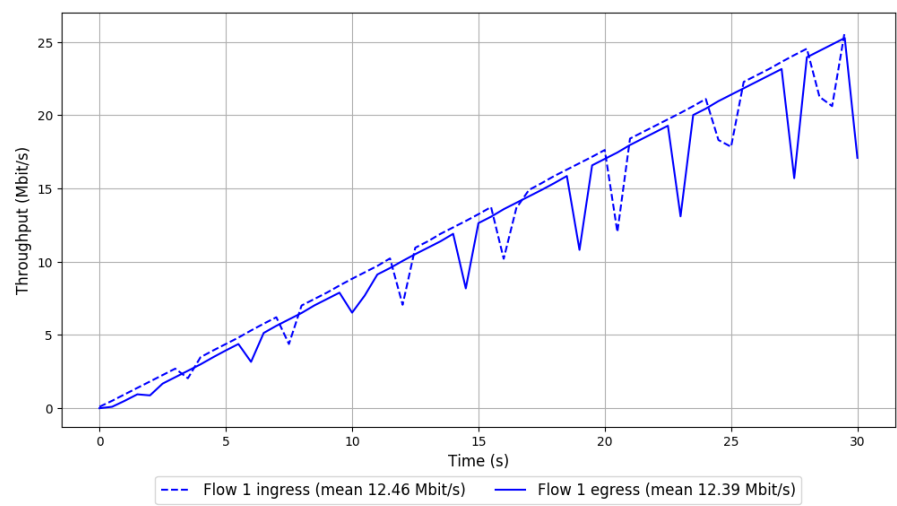


Run 2: Statistics of LEDBAT

Start at: 2019-06-27 01:35:06  
End at: 2019-06-27 01:35:36  
Local clock offset: 23.75 ms  
Remote clock offset: 22.131 ms

# Below is generated by plot.py at 2019-06-27 04:52:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.39 Mbit/s  
95th percentile per-packet one-way delay: 87.646 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 12.39 Mbit/s  
95th percentile per-packet one-way delay: 87.646 ms  
Loss rate: 1.16%

Run 2: Report of LEDBAT — Data Link



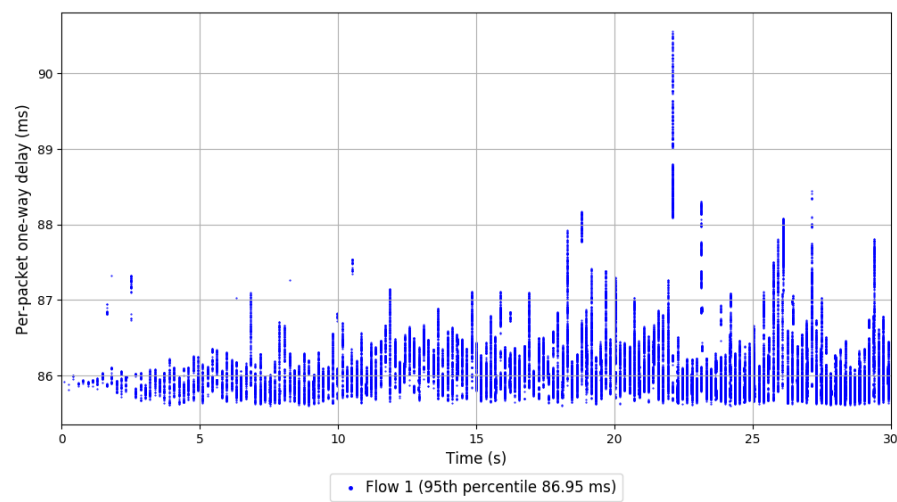
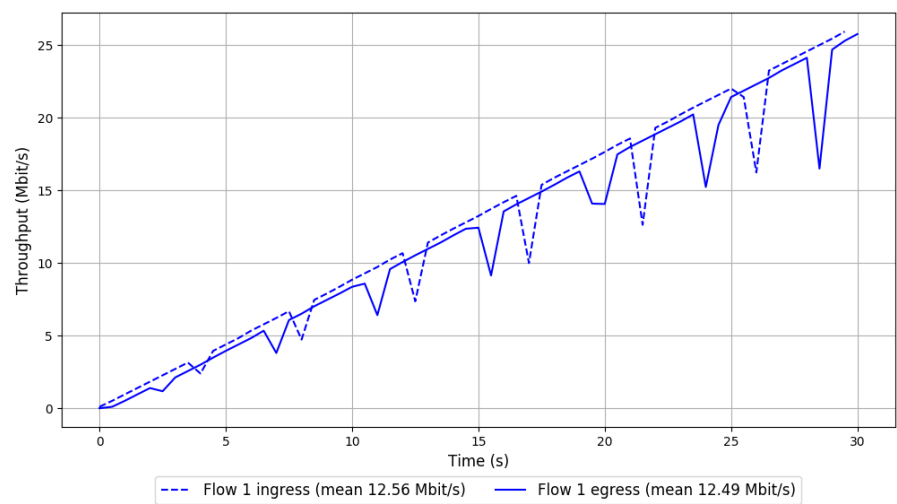


Run 3: Statistics of LEDBAT

Start at: 2019-06-27 02:06:27  
End at: 2019-06-27 02:06:57  
Local clock offset: 20.062 ms  
Remote clock offset: 18.917 ms

# Below is generated by plot.py at 2019-06-27 04:52:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 86.952 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 12.49 Mbit/s  
95th percentile per-packet one-way delay: 86.952 ms  
Loss rate: 1.15%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-06-27 02:38:41

End at: 2019-06-27 02:39:11

Local clock offset: 10.205 ms

Remote clock offset: 9.159 ms

# Below is generated by plot.py at 2019-06-27 04:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 87.303 ms

Loss rate: 1.16%

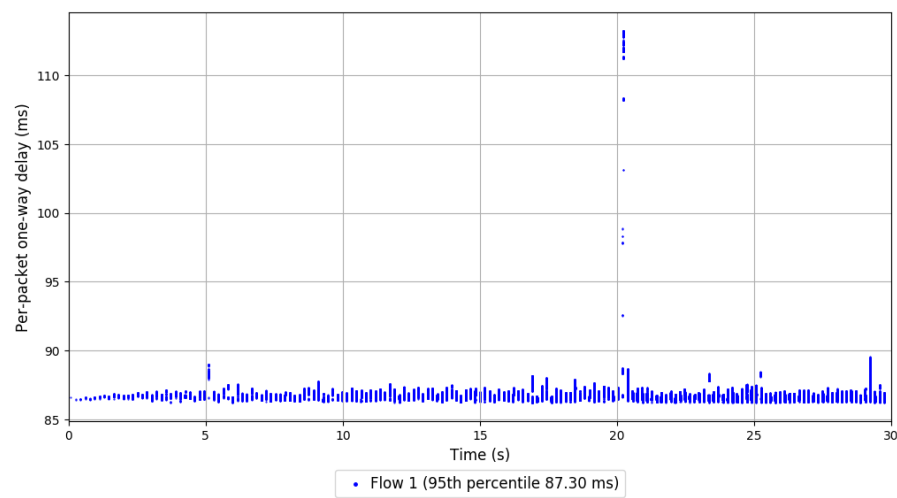
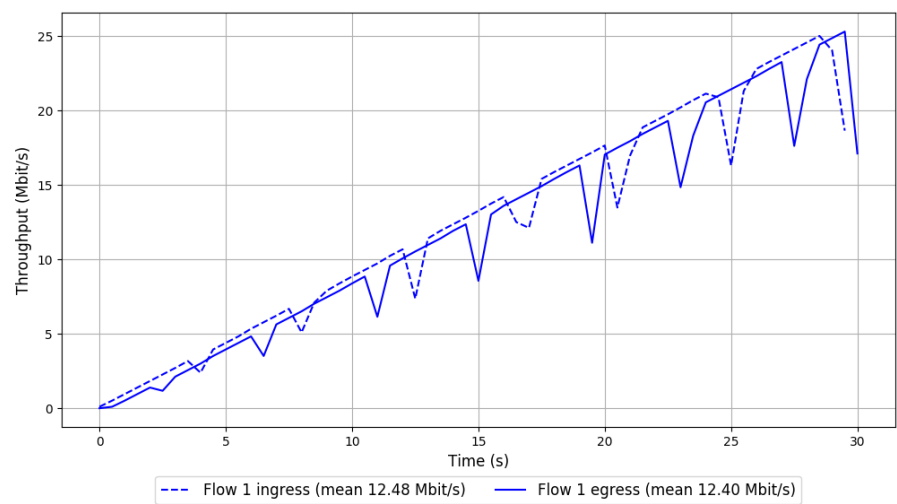
-- Flow 1:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 87.303 ms

Loss rate: 1.16%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-06-27 03:10:56

End at: 2019-06-27 03:11:26

Local clock offset: 2.636 ms

Remote clock offset: 2.697 ms

# Below is generated by plot.py at 2019-06-27 04:52:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 1.16%

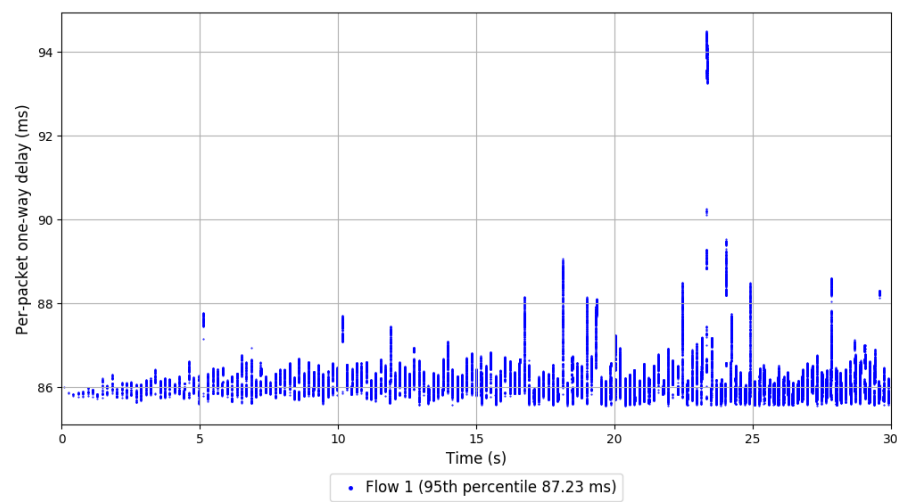
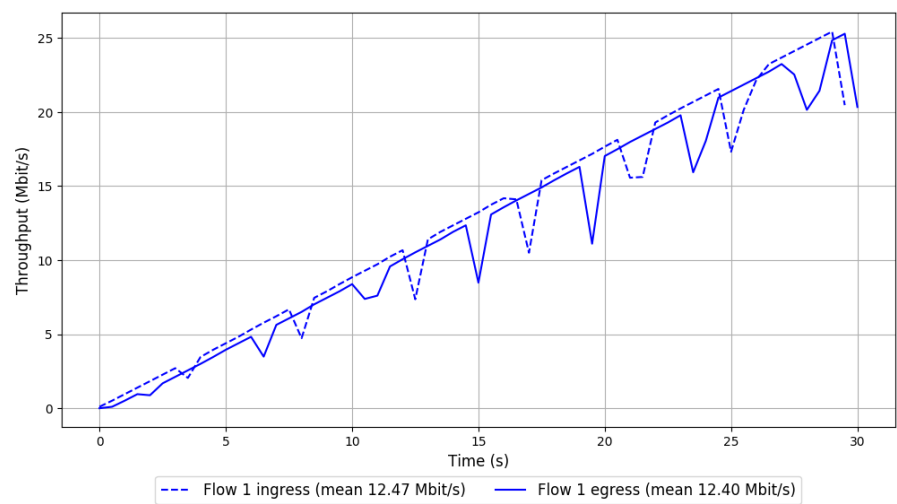
-- Flow 1:

Average throughput: 12.40 Mbit/s

95th percentile per-packet one-way delay: 87.232 ms

Loss rate: 1.16%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 01:04:19

End at: 2019-06-27 01:04:49

Local clock offset: 18.21 ms

Remote clock offset: 18.003 ms

Run 1: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 01:36:17

End at: 2019-06-27 01:36:47

Local clock offset: 24.39 ms

Remote clock offset: 22.701 ms

Run 2: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 02:07:37

End at: 2019-06-27 02:08:07

Local clock offset: 19.801 ms

Remote clock offset: 17.871 ms

Run 3: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 02:39:52

End at: 2019-06-27 02:40:22

Local clock offset: 9.028 ms

Remote clock offset: 8.236 ms

Run 4: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing

Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-06-27 03:12:07

End at: 2019-06-27 03:12:37

Local clock offset: 2.426 ms

Remote clock offset: 2.483 ms

Run 5: Report of Muses\_DecisionTree — Data Link

Figure is missing

Figure is missing



Run 1: Statistics of PCC-Allegro

Start at: 2019-06-27 01:00:06

End at: 2019-06-27 01:00:36

Local clock offset: 11.209 ms

Remote clock offset: 10.253 ms

# Below is generated by plot.py at 2019-06-27 04:55:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 337.82 Mbit/s

95th percentile per-packet one-way delay: 125.333 ms

Loss rate: 1.05%

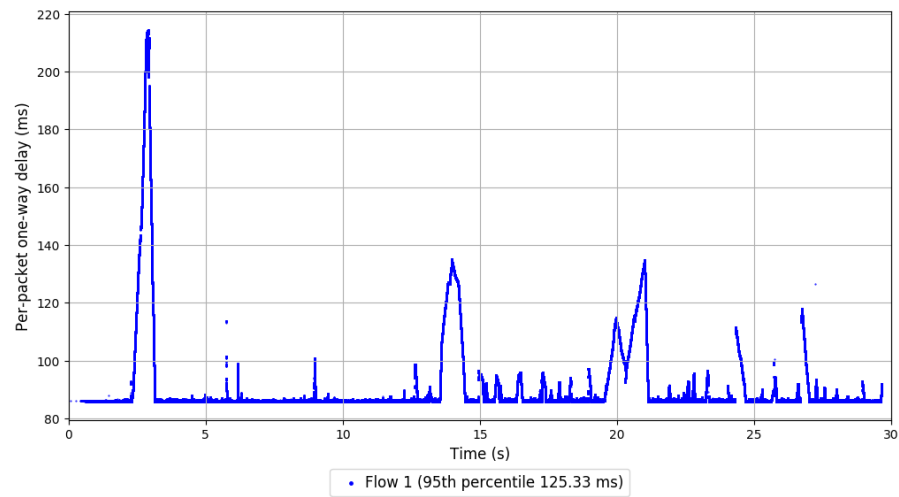
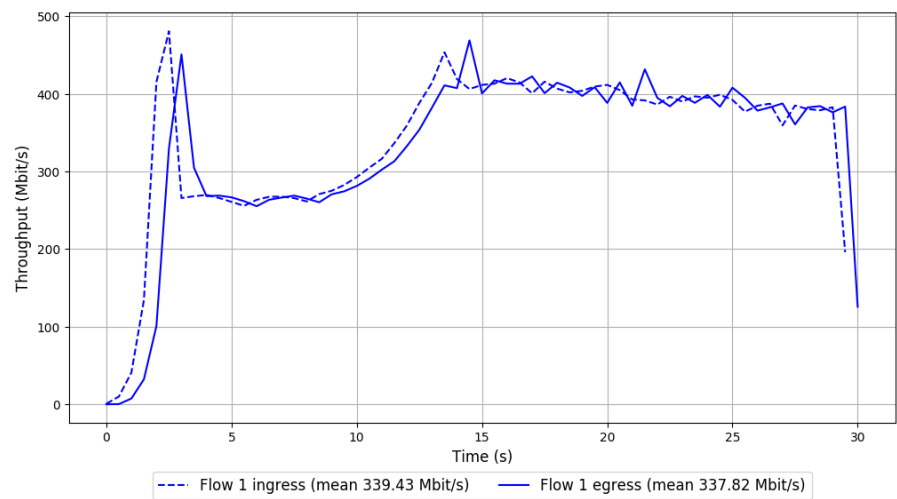
-- Flow 1:

Average throughput: 337.82 Mbit/s

95th percentile per-packet one-way delay: 125.333 ms

Loss rate: 1.05%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-06-27 01:32:04

End at: 2019-06-27 01:32:34

Local clock offset: 22.466 ms

Remote clock offset: 21.017 ms

# Below is generated by plot.py at 2019-06-27 04:56:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 357.96 Mbit/s

95th percentile per-packet one-way delay: 120.312 ms

Loss rate: 0.75%

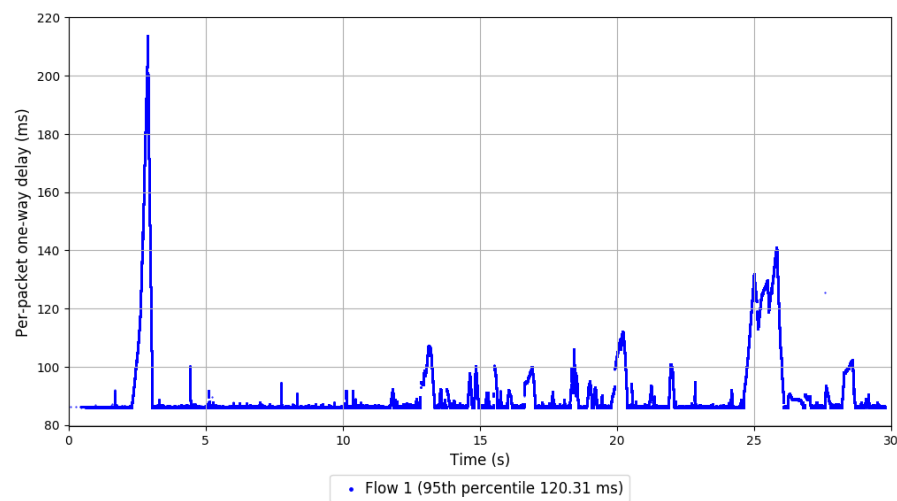
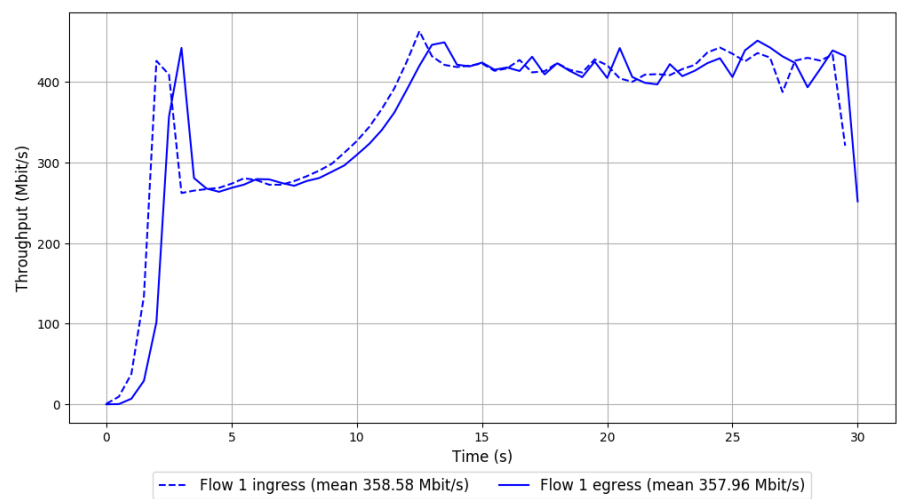
-- Flow 1:

Average throughput: 357.96 Mbit/s

95th percentile per-packet one-way delay: 120.312 ms

Loss rate: 0.75%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-06-27 02:03:24

End at: 2019-06-27 02:03:54

Local clock offset: 23.794 ms

Remote clock offset: 22.624 ms

# Below is generated by plot.py at 2019-06-27 04:56:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.24 Mbit/s

95th percentile per-packet one-way delay: 127.764 ms

Loss rate: 1.36%

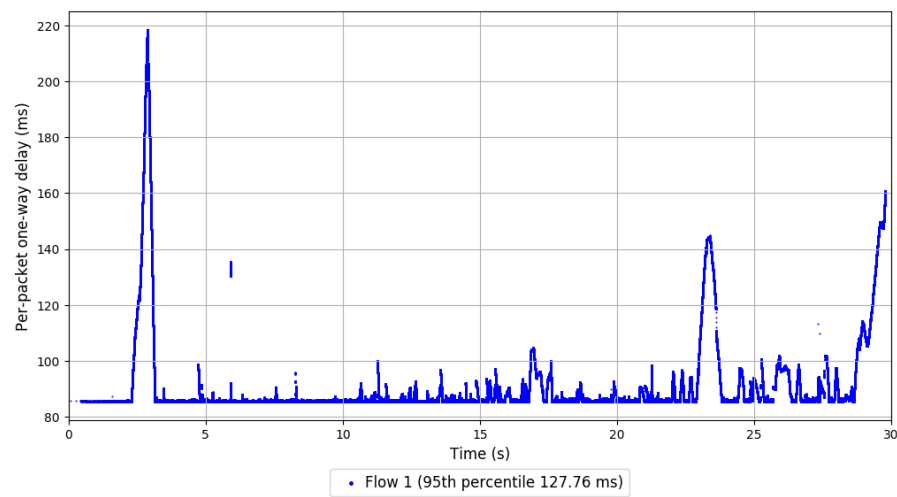
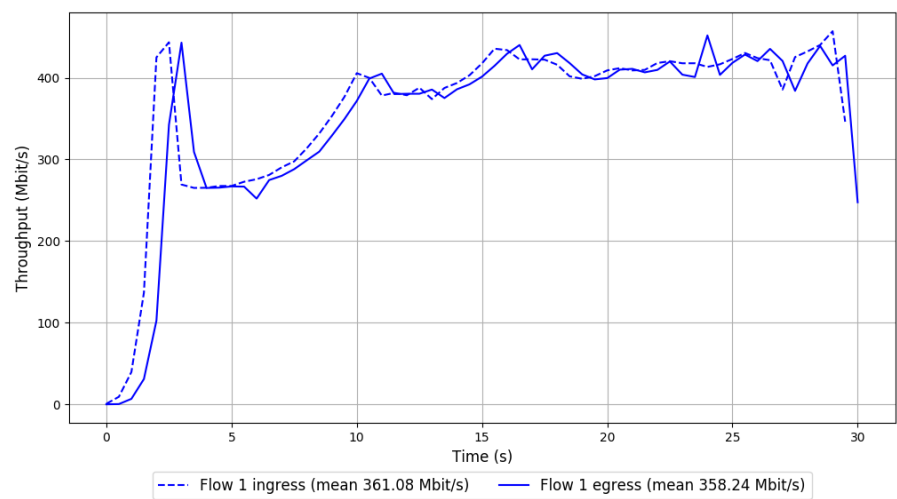
-- Flow 1:

Average throughput: 358.24 Mbit/s

95th percentile per-packet one-way delay: 127.764 ms

Loss rate: 1.36%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-06-27 02:35:38

End at: 2019-06-27 02:36:08

Local clock offset: 13.249 ms

Remote clock offset: 12.316 ms

# Below is generated by plot.py at 2019-06-27 05:02:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 356.17 Mbit/s

95th percentile per-packet one-way delay: 98.810 ms

Loss rate: 0.75%

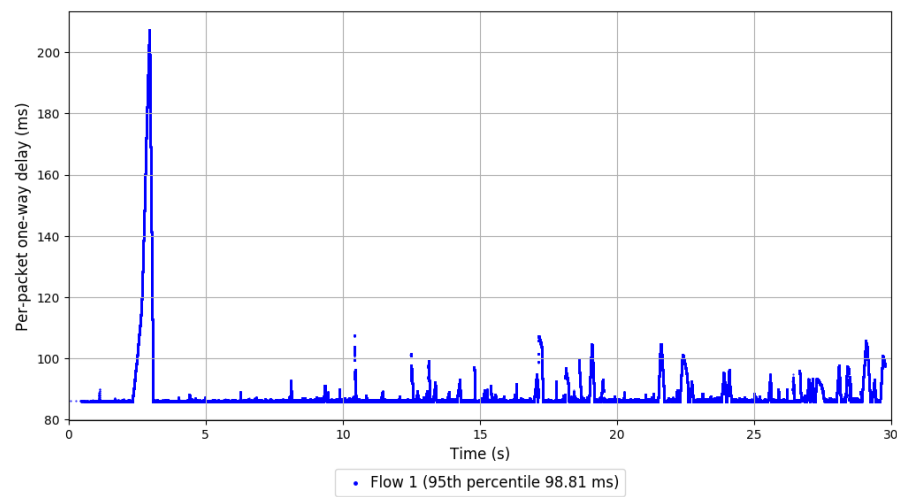
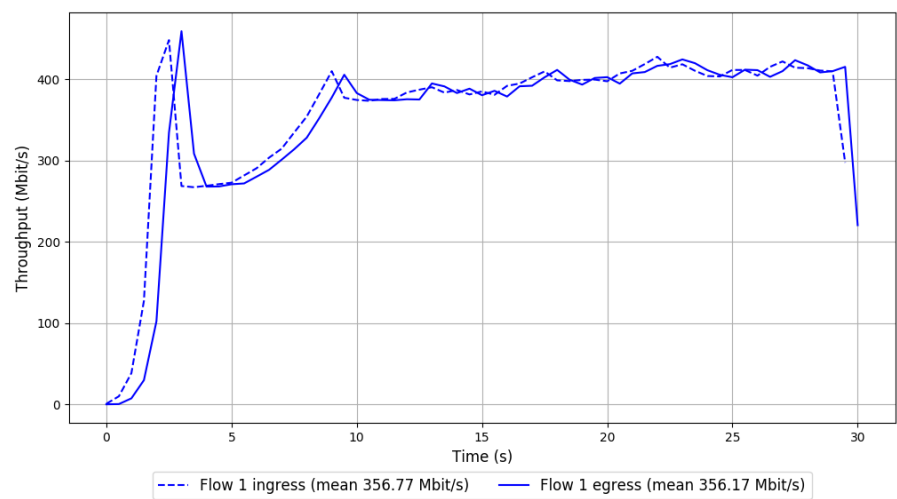
-- Flow 1:

Average throughput: 356.17 Mbit/s

95th percentile per-packet one-way delay: 98.810 ms

Loss rate: 0.75%

Run 4: Report of PCC-Allegro — Data Link





Run 5: Statistics of PCC-Allegro

Start at: 2019-06-27 03:07:54

End at: 2019-06-27 03:08:24

Local clock offset: 3.813 ms

Remote clock offset: 3.592 ms

# Below is generated by plot.py at 2019-06-27 05:03:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 119.938 ms

Loss rate: 1.32%

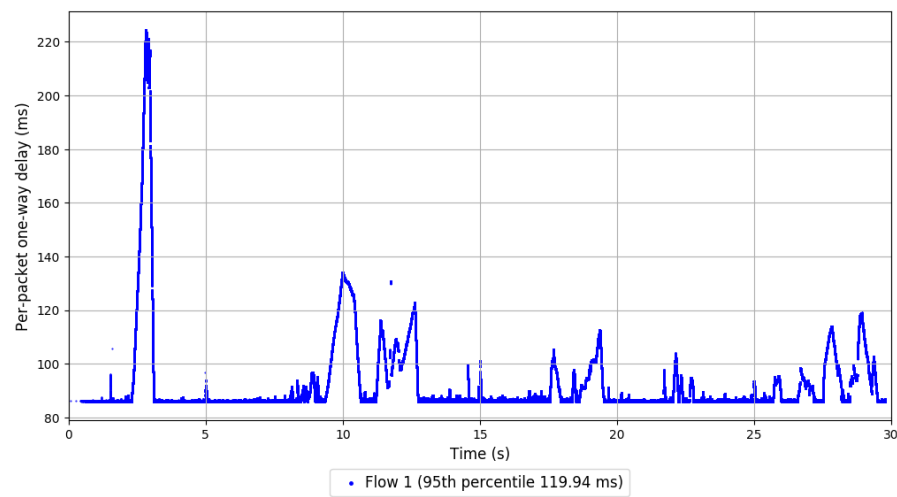
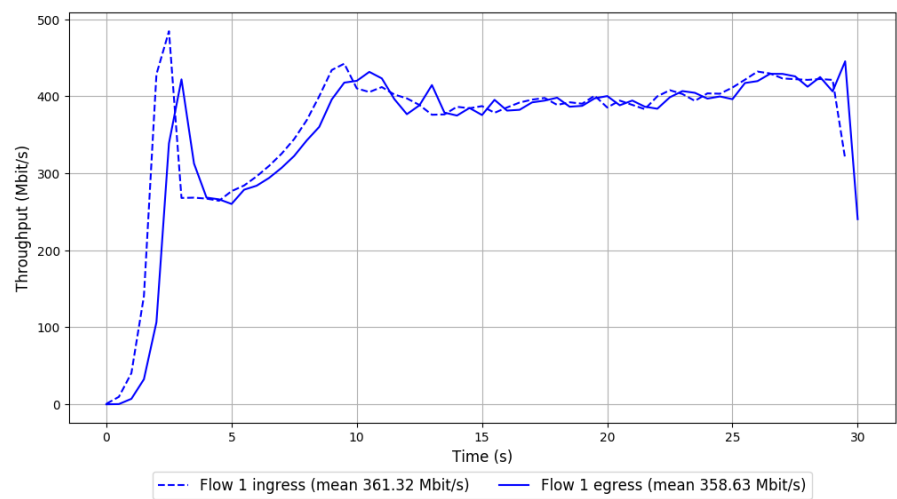
-- Flow 1:

Average throughput: 358.63 Mbit/s

95th percentile per-packet one-way delay: 119.938 ms

Loss rate: 1.32%

Run 5: Report of PCC-Allegro — Data Link

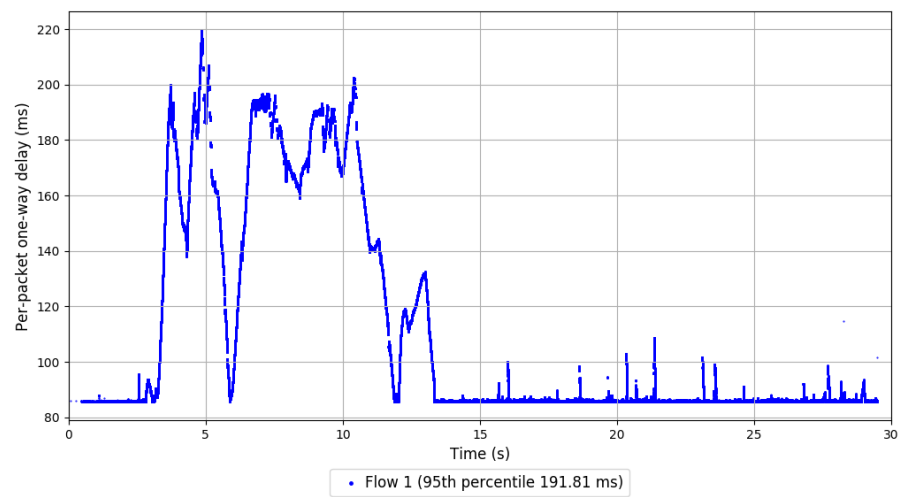
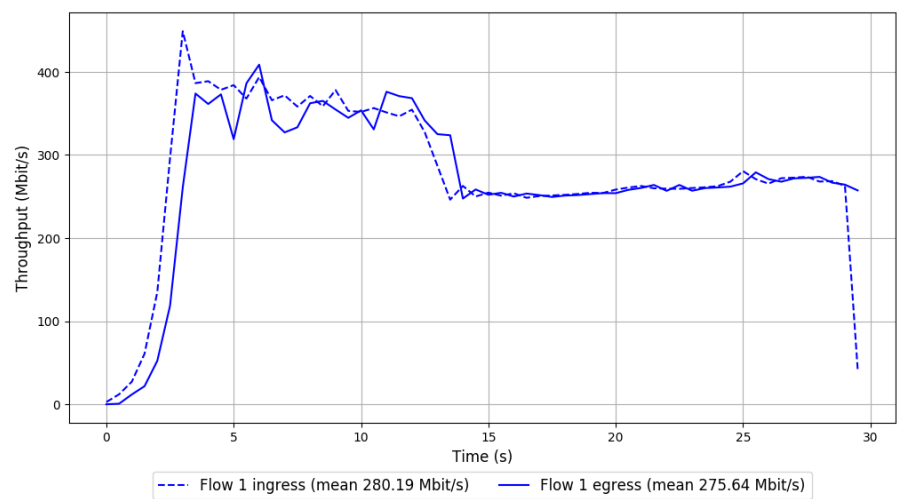


Run 1: Statistics of PCC-Expr

Start at: 2019-06-27 01:09:35  
End at: 2019-06-27 01:10:05  
Local clock offset: 14.492 ms  
Remote clock offset: 14.028 ms

# Below is generated by plot.py at 2019-06-27 05:03:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 275.64 Mbit/s  
95th percentile per-packet one-way delay: 191.811 ms  
Loss rate: 2.19%  
-- Flow 1:  
Average throughput: 275.64 Mbit/s  
95th percentile per-packet one-way delay: 191.811 ms  
Loss rate: 2.19%

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-06-27 01:41:29

End at: 2019-06-27 01:41:59

Local clock offset: 28.441 ms

Remote clock offset: 26.74 ms

# Below is generated by plot.py at 2019-06-27 05:03:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 157.25 Mbit/s

95th percentile per-packet one-way delay: 166.911 ms

Loss rate: 0.87%

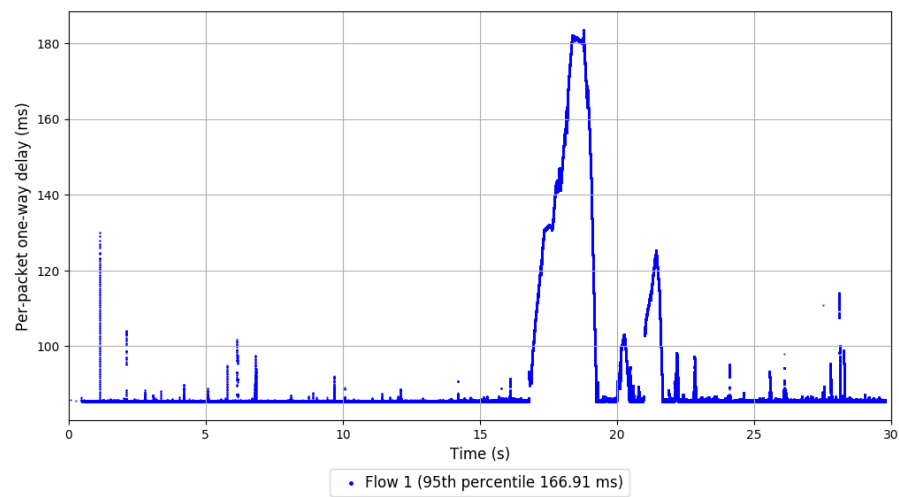
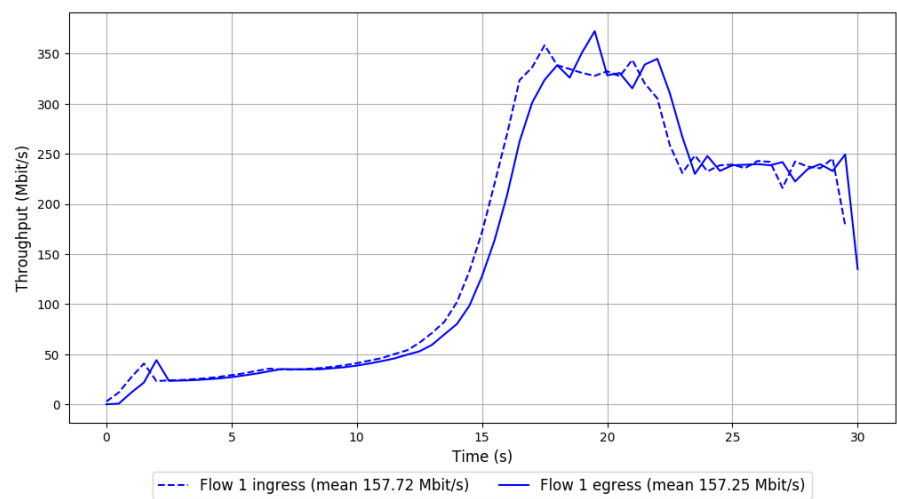
-- Flow 1:

Average throughput: 157.25 Mbit/s

95th percentile per-packet one-way delay: 166.911 ms

Loss rate: 0.87%

Run 2: Report of PCC-Expr — Data Link

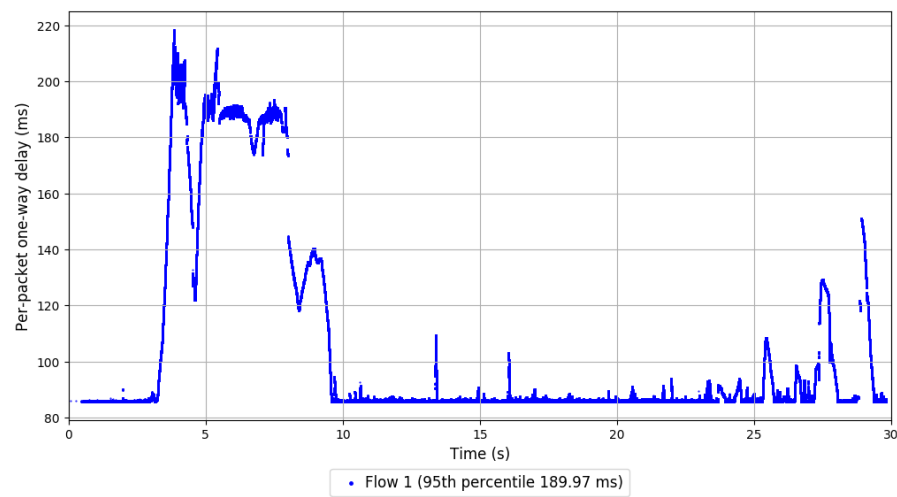
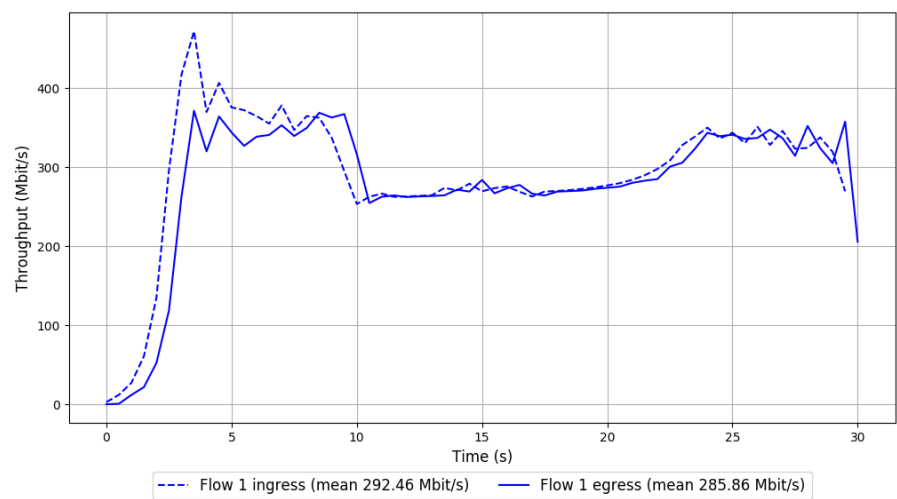


Run 3: Statistics of PCC-Expr

Start at: 2019-06-27 02:12:52  
End at: 2019-06-27 02:13:22  
Local clock offset: 16.783 ms  
Remote clock offset: 15.946 ms

# Below is generated by plot.py at 2019-06-27 05:03:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 285.86 Mbit/s  
95th percentile per-packet one-way delay: 189.968 ms  
Loss rate: 2.82%  
-- Flow 1:  
Average throughput: 285.86 Mbit/s  
95th percentile per-packet one-way delay: 189.968 ms  
Loss rate: 2.82%

Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

Start at: 2019-06-27 02:45:08

End at: 2019-06-27 02:45:38

Local clock offset: 6.349 ms

Remote clock offset: 5.74 ms

# Below is generated by plot.py at 2019-06-27 05:07:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 285.86 Mbit/s

95th percentile per-packet one-way delay: 191.276 ms

Loss rate: 2.63%

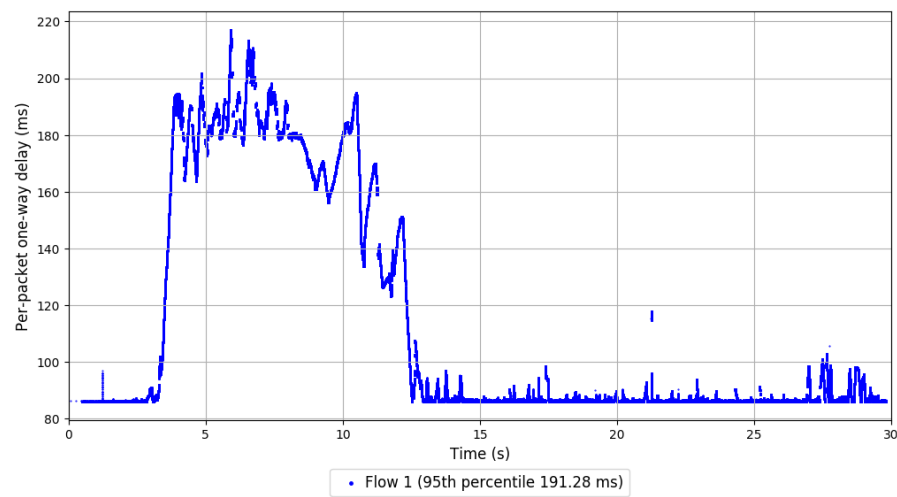
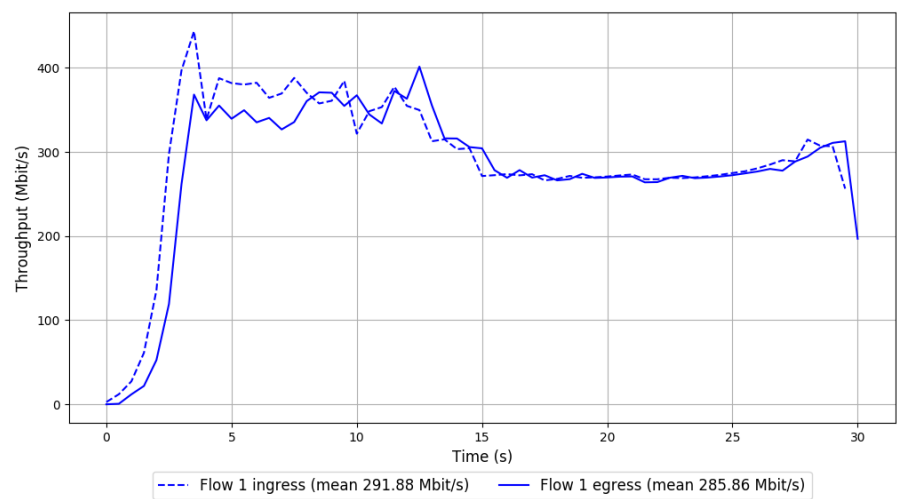
-- Flow 1:

Average throughput: 285.86 Mbit/s

95th percentile per-packet one-way delay: 191.276 ms

Loss rate: 2.63%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-06-27 03:17:29

End at: 2019-06-27 03:17:59

Local clock offset: 1.985 ms

Remote clock offset: 1.812 ms

# Below is generated by plot.py at 2019-06-27 05:07:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 192.823 ms

Loss rate: 2.61%

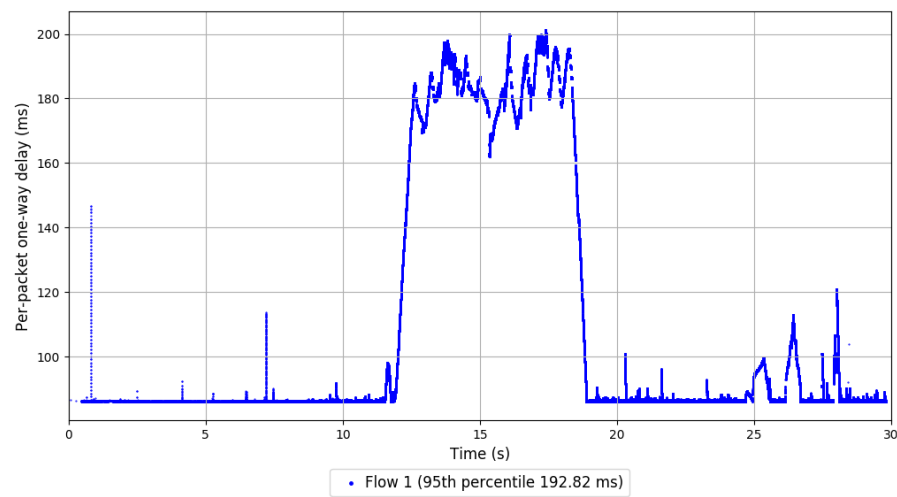
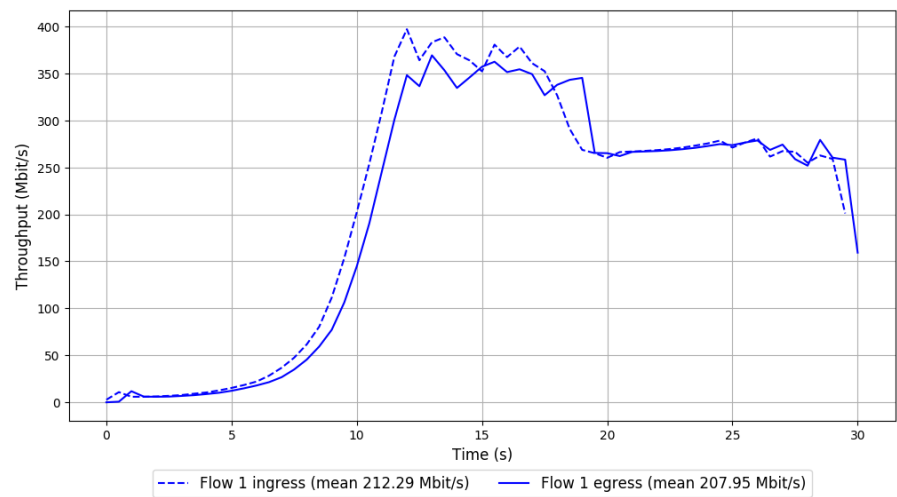
-- Flow 1:

Average throughput: 207.95 Mbit/s

95th percentile per-packet one-way delay: 192.823 ms

Loss rate: 2.61%

Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

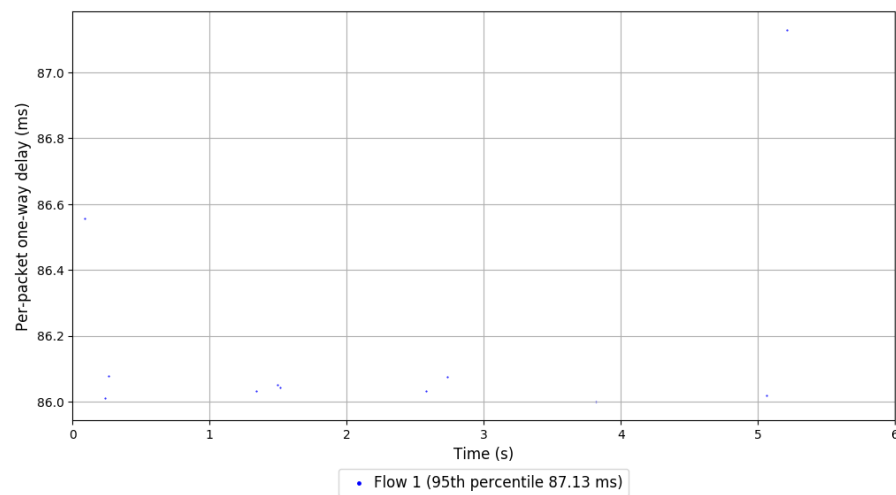
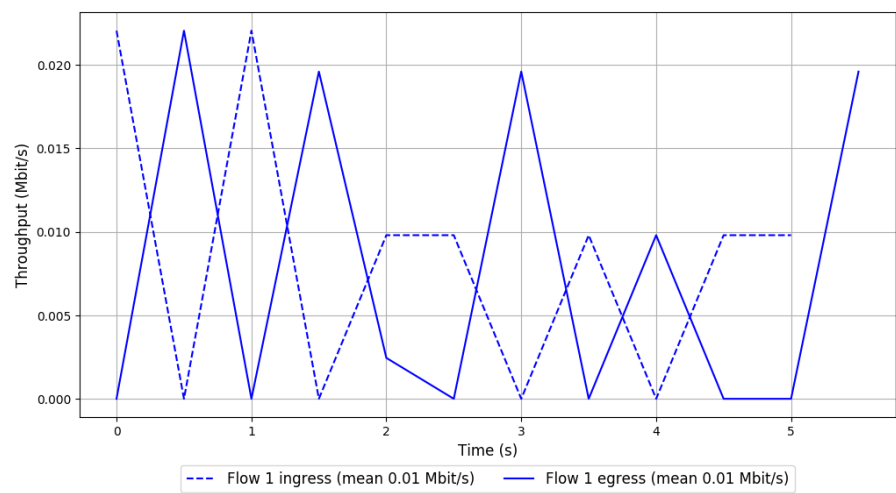
Start at: 2019-06-27 01:08:26

End at: 2019-06-27 01:08:56

Local clock offset: 14.741 ms

Remote clock offset: 14.167 ms

Run 1: Report of QUIC Cubic — Data Link

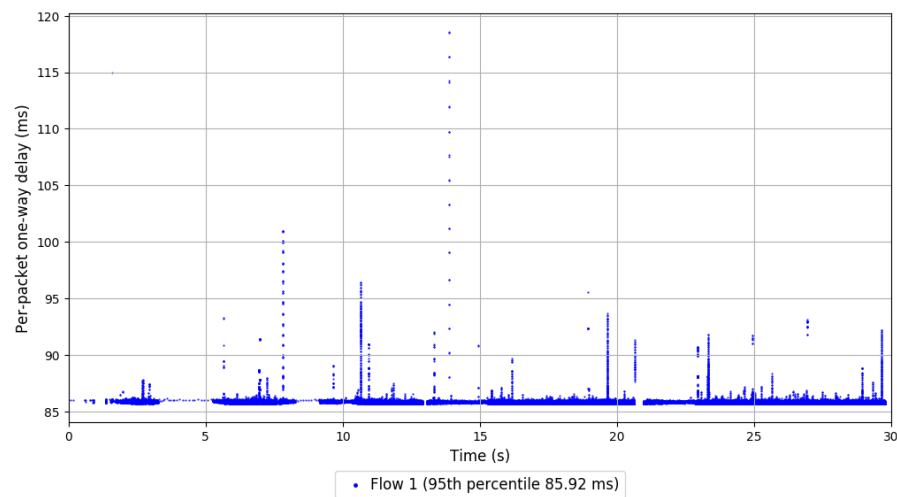
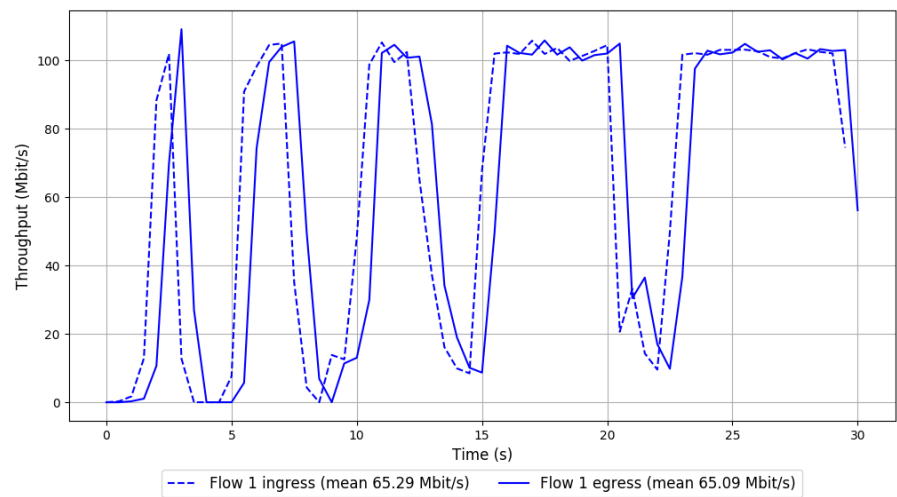


Run 2: Statistics of QUIC Cubic

Start at: 2019-06-27 01:40:16  
End at: 2019-06-27 01:40:46  
Local clock offset: 27.312 ms  
Remote clock offset: 25.653 ms

# Below is generated by plot.py at 2019-06-27 05:07:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 65.09 Mbit/s  
95th percentile per-packet one-way delay: 85.924 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 65.09 Mbit/s  
95th percentile per-packet one-way delay: 85.924 ms  
Loss rate: 0.89%

Run 2: Report of QUIC Cubic — Data Link



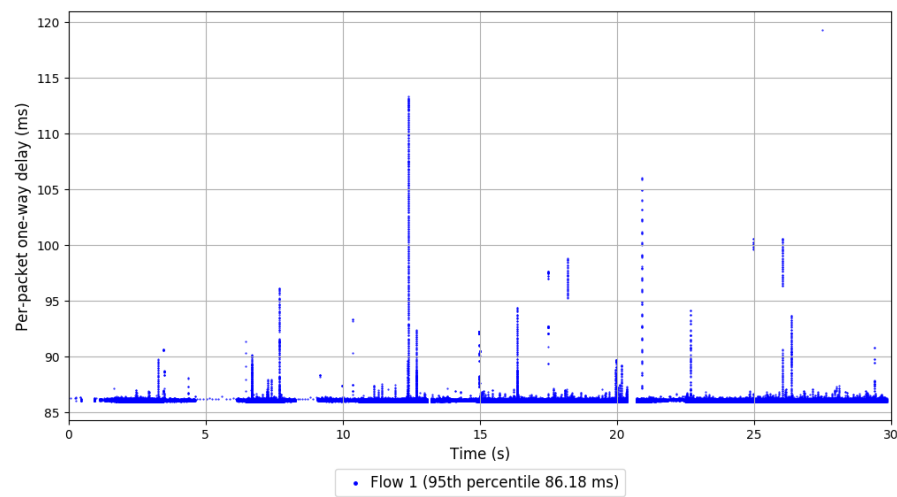
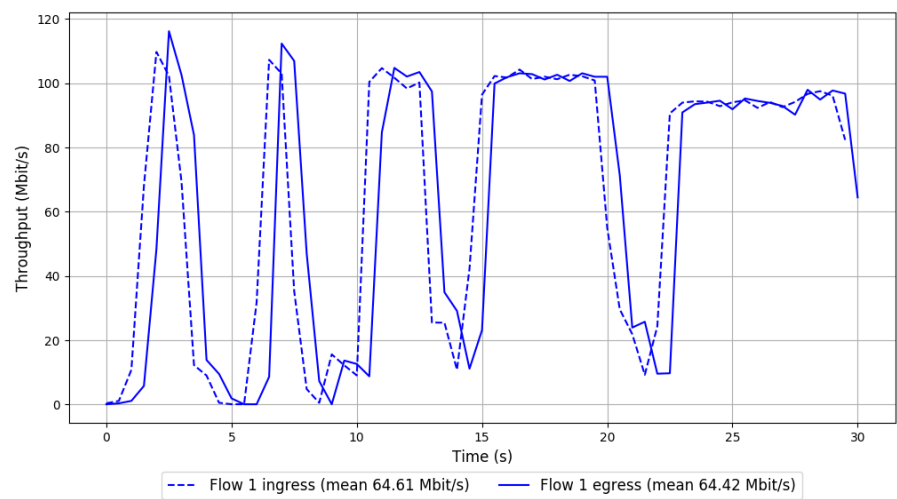


Run 3: Statistics of QUIC Cubic

Start at: 2019-06-27 02:11:39  
End at: 2019-06-27 02:12:09  
Local clock offset: 17.659 ms  
Remote clock offset: 16.205 ms

# Below is generated by plot.py at 2019-06-27 05:07:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 64.42 Mbit/s  
95th percentile per-packet one-way delay: 86.180 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 64.42 Mbit/s  
95th percentile per-packet one-way delay: 86.180 ms  
Loss rate: 0.86%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-06-27 02:43:57

End at: 2019-06-27 02:44:27

Local clock offset: 6.222 ms

Remote clock offset: 6.201 ms

# Below is generated by plot.py at 2019-06-27 05:07:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 85.938 ms

Loss rate: 0.88%

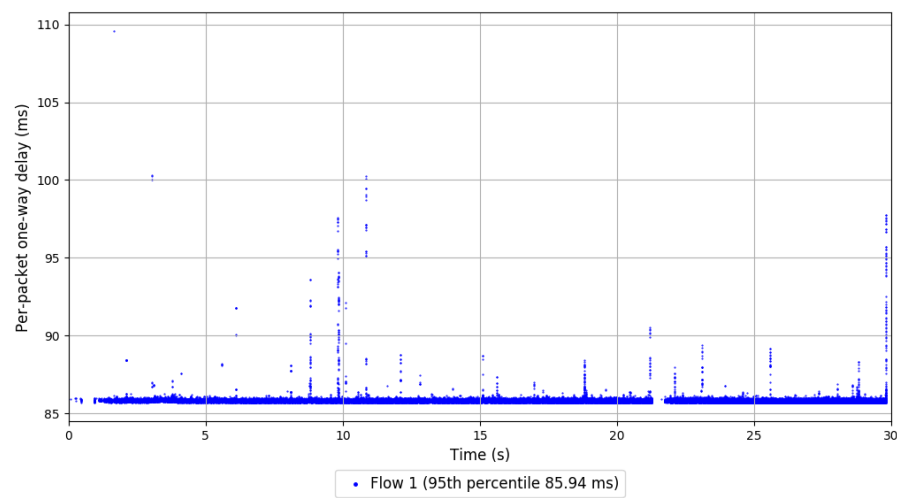
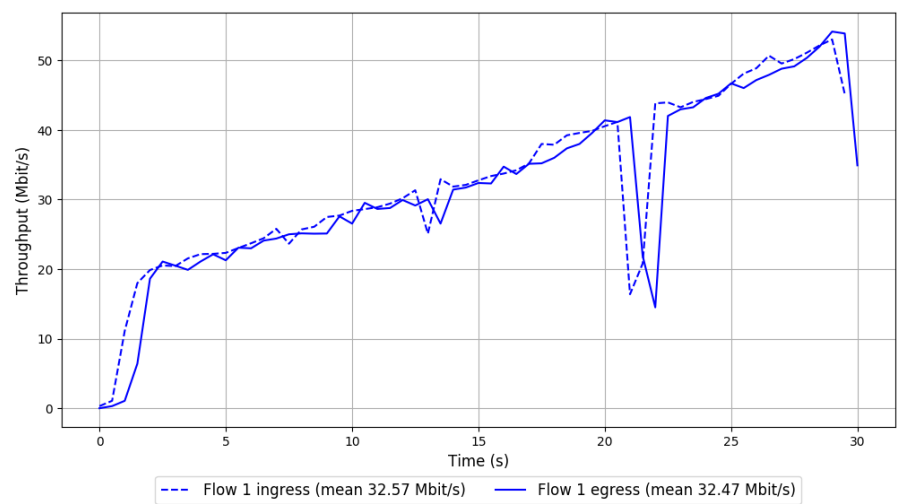
-- Flow 1:

Average throughput: 32.47 Mbit/s

95th percentile per-packet one-way delay: 85.938 ms

Loss rate: 0.88%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2019-06-27 03:16:16

End at: 2019-06-27 03:16:46

Local clock offset: 2.129 ms

Remote clock offset: 1.965 ms

# Below is generated by plot.py at 2019-06-27 05:07:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 85.950 ms

Loss rate: 0.90%

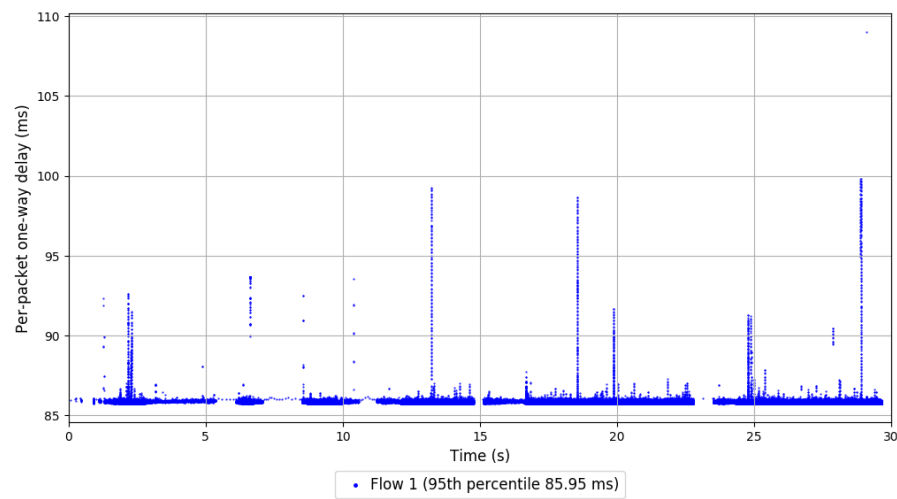
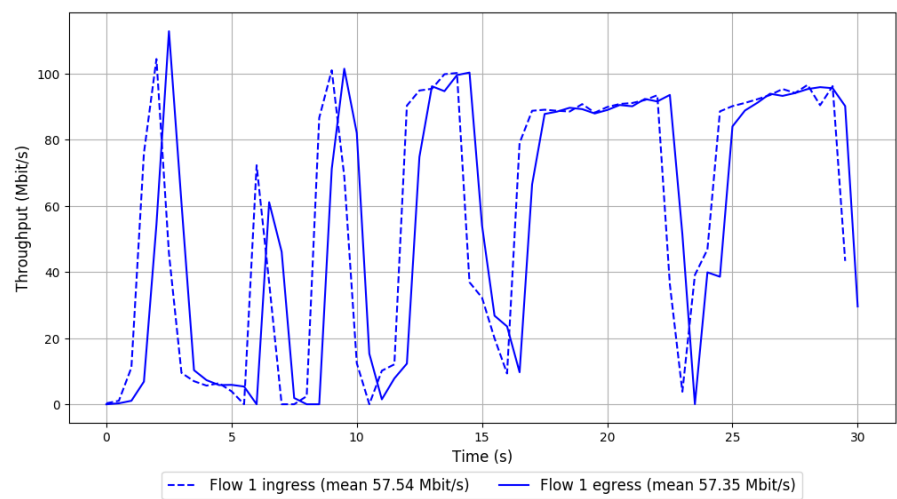
-- Flow 1:

Average throughput: 57.35 Mbit/s

95th percentile per-packet one-way delay: 85.950 ms

Loss rate: 0.90%

Run 5: Report of QUIC Cubic — Data Link

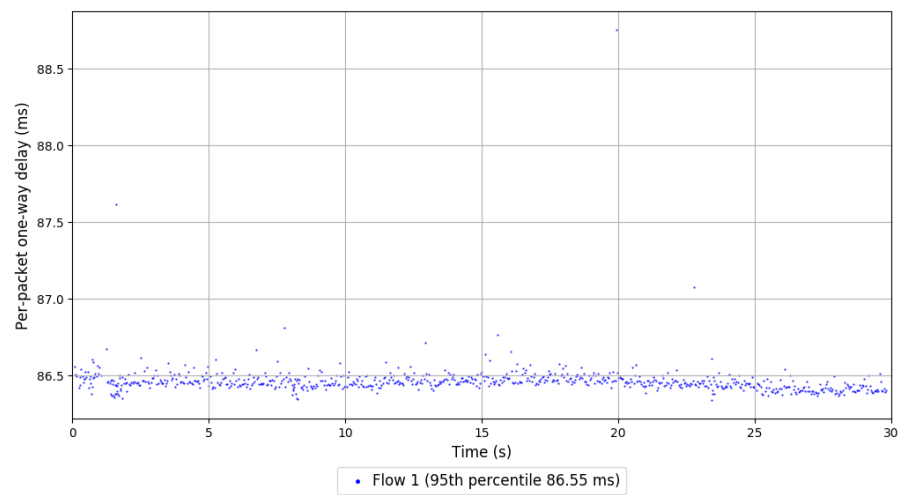
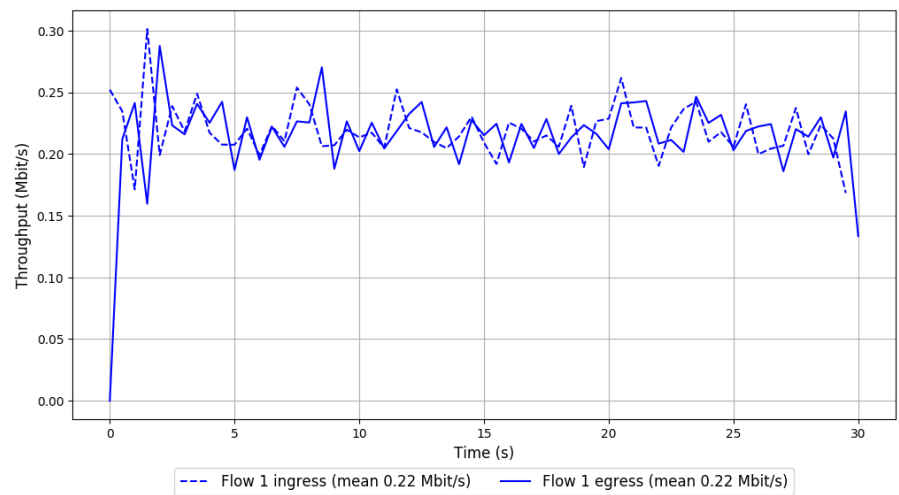


Run 1: Statistics of SCReAM

Start at: 2019-06-27 01:16:58  
End at: 2019-06-27 01:17:28  
Local clock offset: 22.217 ms  
Remote clock offset: 20.671 ms

# Below is generated by plot.py at 2019-06-27 05:07:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.545 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.545 ms  
Loss rate: 0.52%

Run 1: Report of SReAM — Data Link



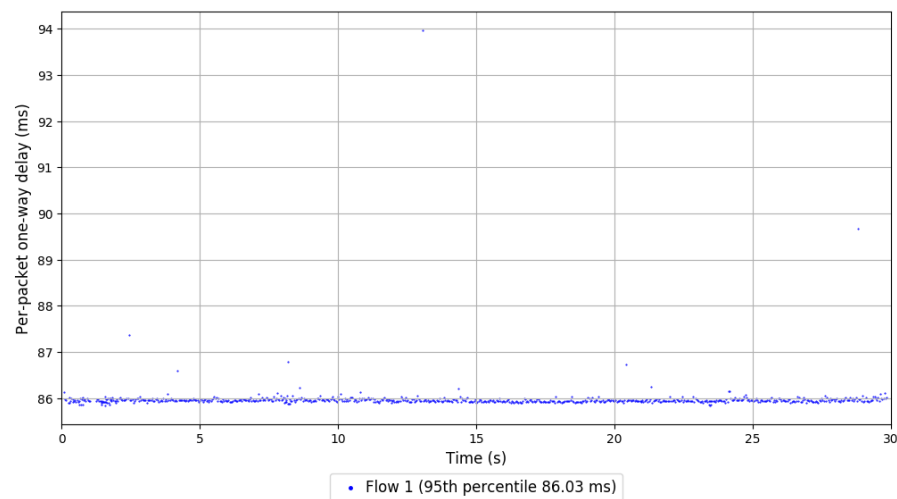
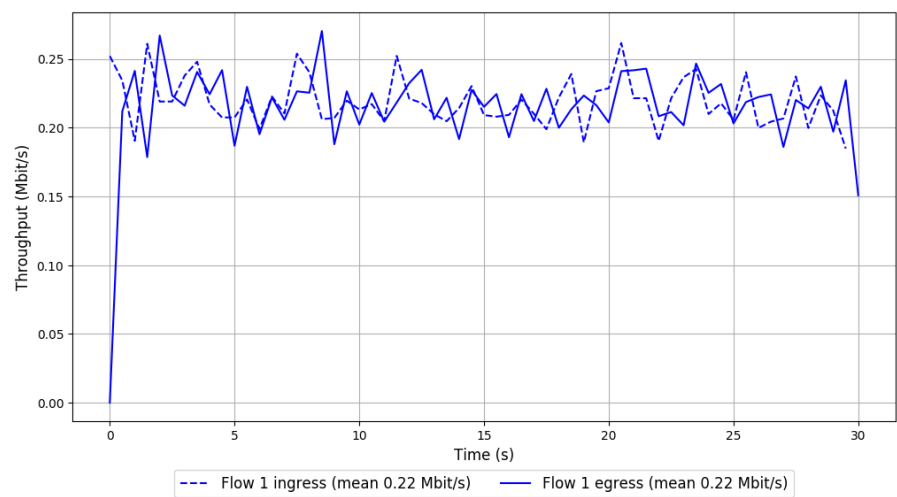


Run 2: Statistics of SCReAM

Start at: 2019-06-27 01:48:47  
End at: 2019-06-27 01:49:17  
Local clock offset: 36.385 ms  
Remote clock offset: 33.863 ms

# Below is generated by plot.py at 2019-06-27 05:07:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.031 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 86.031 ms  
Loss rate: 0.51%

Run 2: Report of SReAM — Data Link

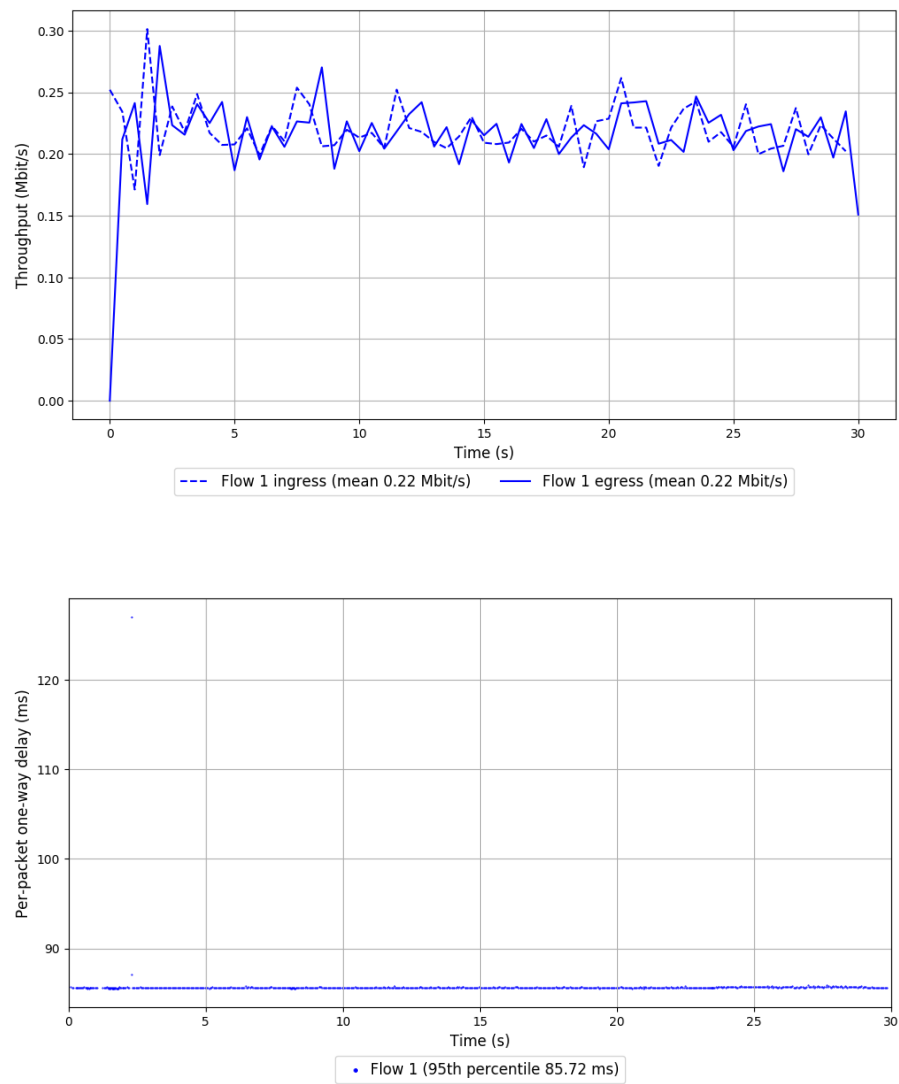


Run 3: Statistics of SCReAM

Start at: 2019-06-27 02:20:27  
End at: 2019-06-27 02:20:57  
Local clock offset: 17.936 ms  
Remote clock offset: 17.012 ms

# Below is generated by plot.py at 2019-06-27 05:07:22  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.724 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 85.724 ms  
Loss rate: 0.64%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2019-06-27 02:52:45

End at: 2019-06-27 02:53:15

Local clock offset: 4.877 ms

Remote clock offset: 4.575 ms

# Below is generated by plot.py at 2019-06-27 05:07:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.505 ms

Loss rate: 0.51%

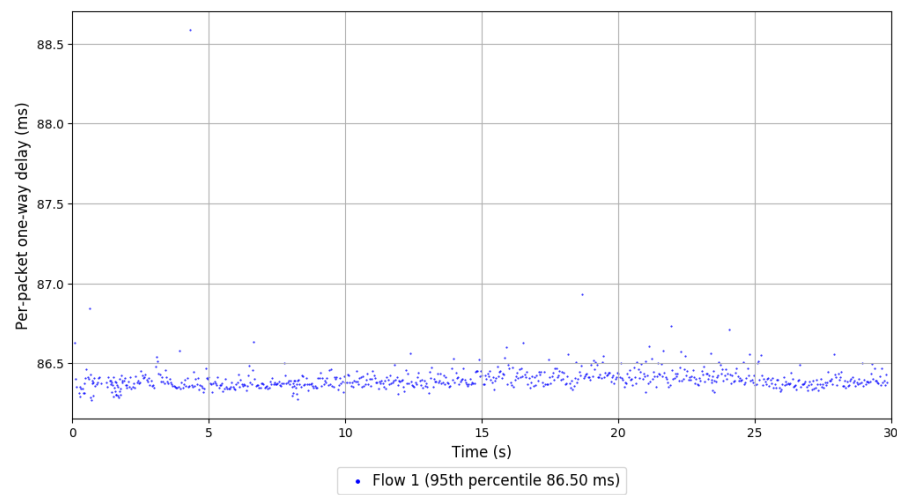
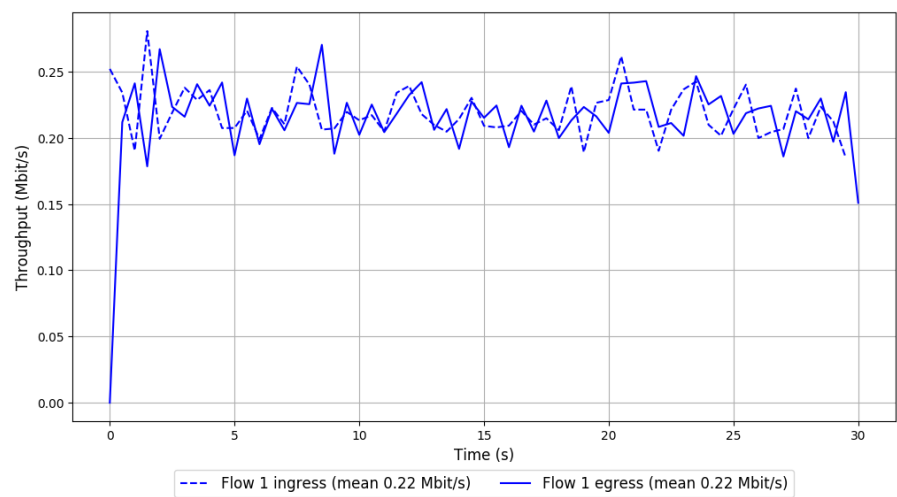
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 86.505 ms

Loss rate: 0.51%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SCReAM

Start at: 2019-06-27 03:24:57

End at: 2019-06-27 03:25:27

Local clock offset: 1.623 ms

Remote clock offset: 1.629 ms

# Below is generated by plot.py at 2019-06-27 05:07:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.990 ms

Loss rate: 0.64%

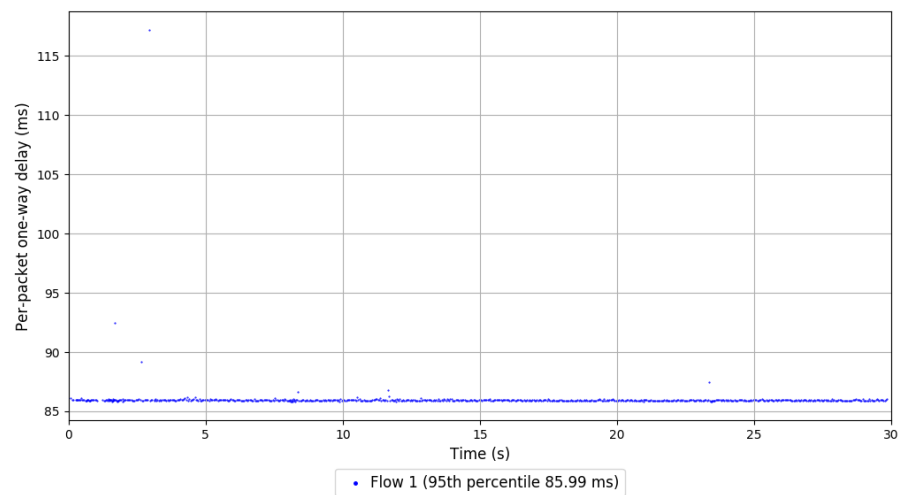
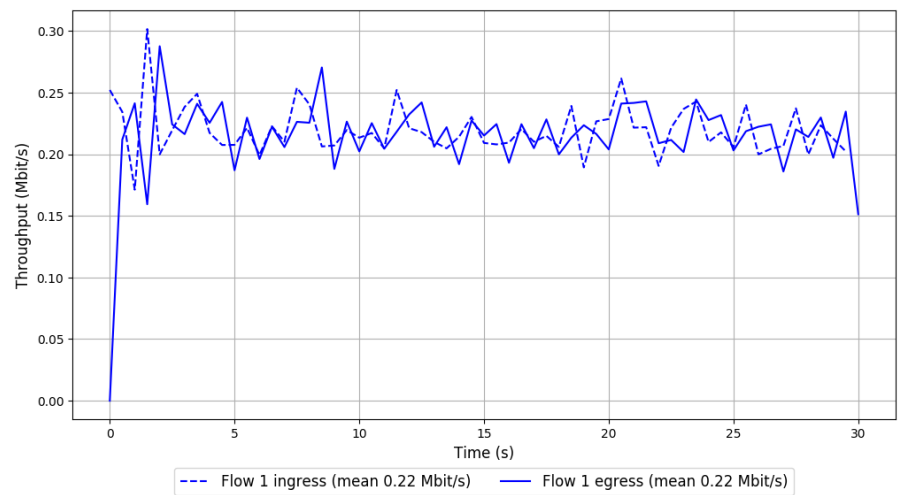
-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 85.990 ms

Loss rate: 0.64%

Run 5: Report of SReAM — Data Link



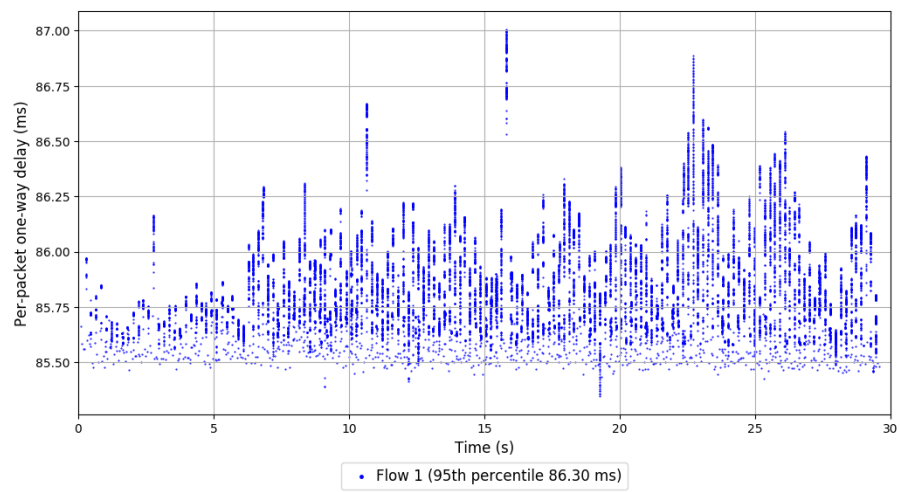
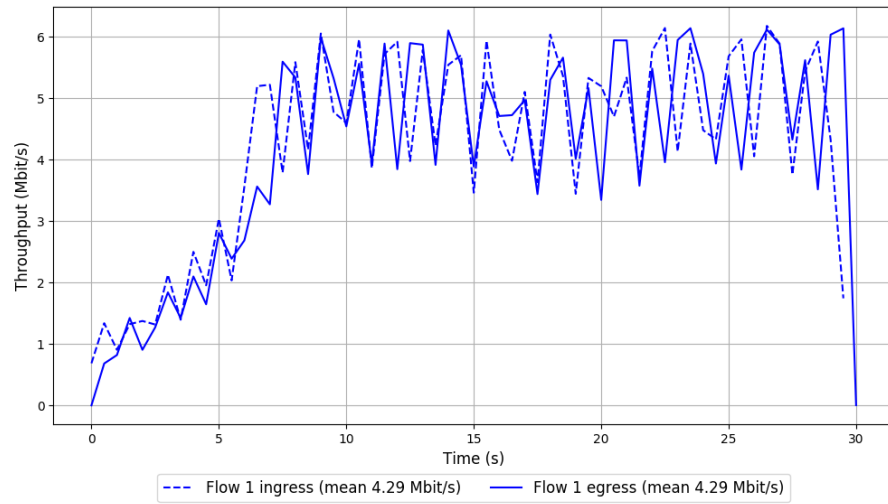


Run 1: Statistics of Sprout

Start at: 2019-06-27 01:15:48  
End at: 2019-06-27 01:16:18  
Local clock offset: 20.267 ms  
Remote clock offset: 19.378 ms

# Below is generated by plot.py at 2019-06-27 05:07:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.29 Mbit/s  
95th percentile per-packet one-way delay: 86.304 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 4.29 Mbit/s  
95th percentile per-packet one-way delay: 86.304 ms  
Loss rate: 0.68%

# Run 1: Report of Sprout — Data Link

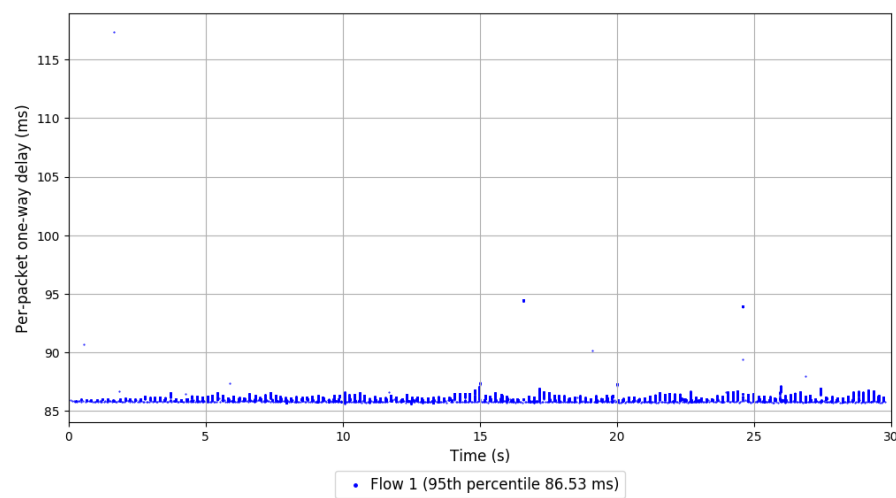
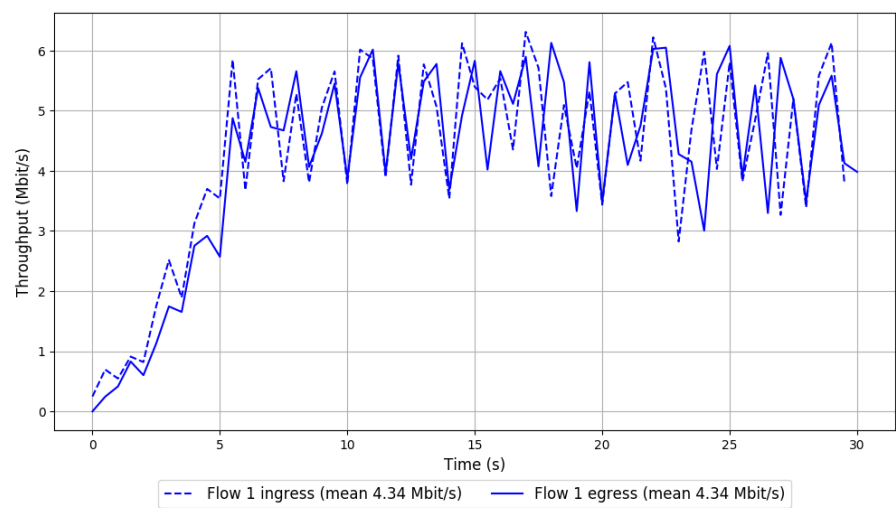


Run 2: Statistics of Sprout

Start at: 2019-06-27 01:47:37  
End at: 2019-06-27 01:48:07  
Local clock offset: 35.024 ms  
Remote clock offset: 32.768 ms

# Below is generated by plot.py at 2019-06-27 05:07:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 86.527 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 4.34 Mbit/s  
95th percentile per-packet one-way delay: 86.527 ms  
Loss rate: 0.70%

Run 2: Report of Sprout — Data Link

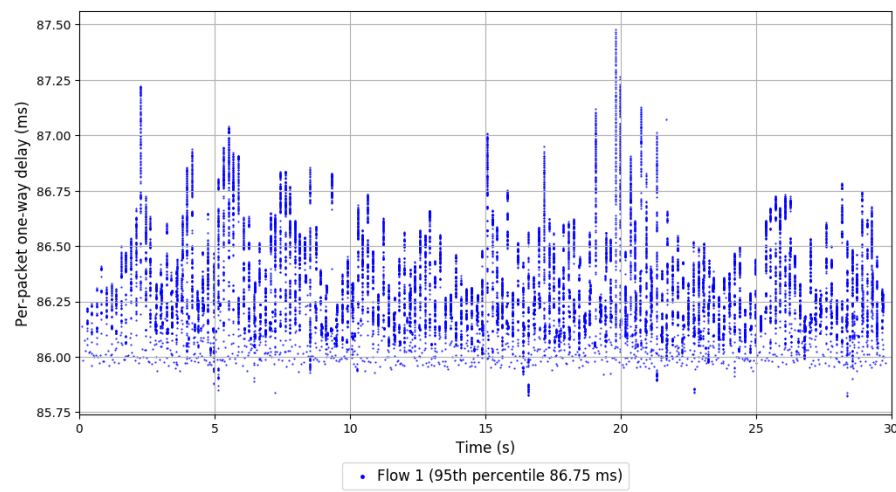
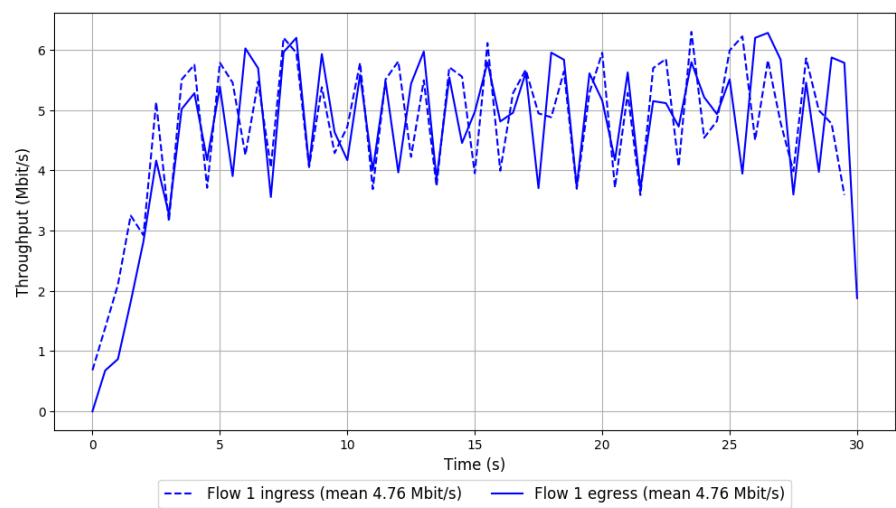


Run 3: Statistics of Sprout

Start at: 2019-06-27 02:19:18  
End at: 2019-06-27 02:19:48  
Local clock offset: 17.765 ms  
Remote clock offset: 16.76 ms

# Below is generated by plot.py at 2019-06-27 05:07:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 4.76 Mbit/s  
95th percentile per-packet one-way delay: 86.749 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 4.76 Mbit/s  
95th percentile per-packet one-way delay: 86.749 ms  
Loss rate: 0.60%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-06-27 02:51:35

End at: 2019-06-27 02:52:05

Local clock offset: 5.312 ms

Remote clock offset: 4.644 ms

# Below is generated by plot.py at 2019-06-27 05:07:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.420 ms

Loss rate: 0.73%

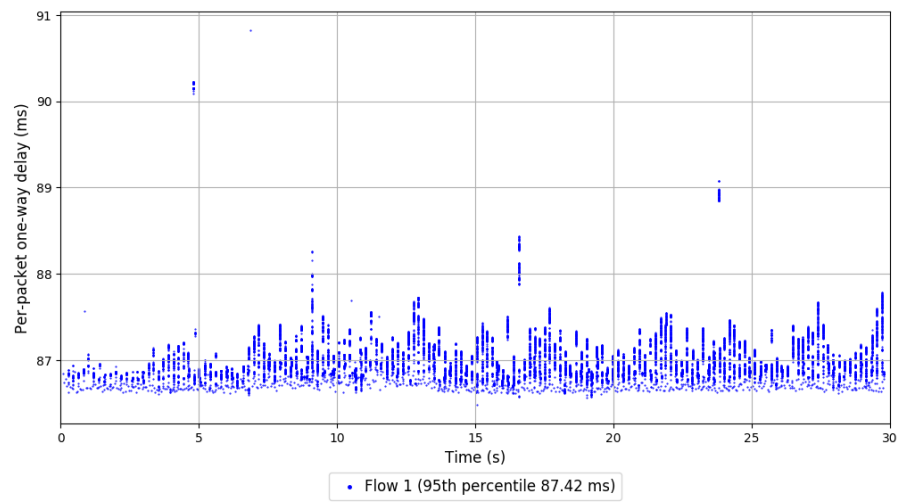
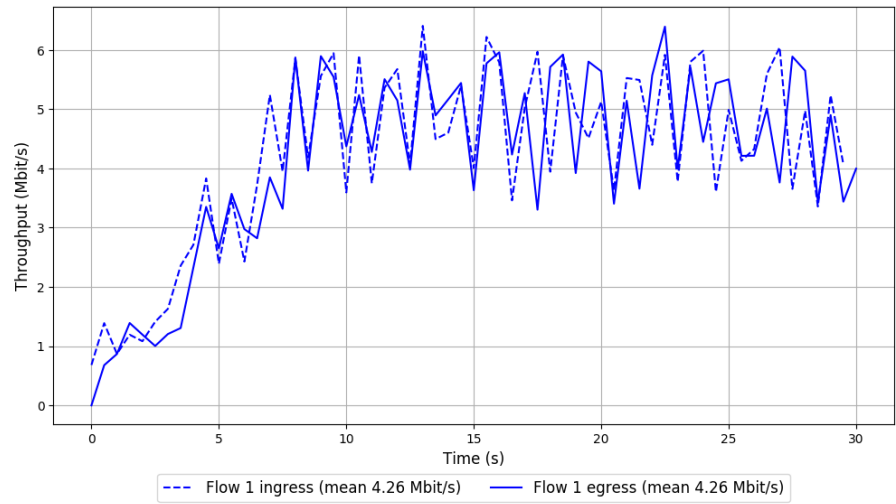
-- Flow 1:

Average throughput: 4.26 Mbit/s

95th percentile per-packet one-way delay: 87.420 ms

Loss rate: 0.73%

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





Run 5: Statistics of Sprout

Start at: 2019-06-27 03:23:47

End at: 2019-06-27 03:24:17

Local clock offset: 2.161 ms

Remote clock offset: 1.645 ms

# Below is generated by plot.py at 2019-06-27 05:07:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 87.155 ms

Loss rate: 0.77%

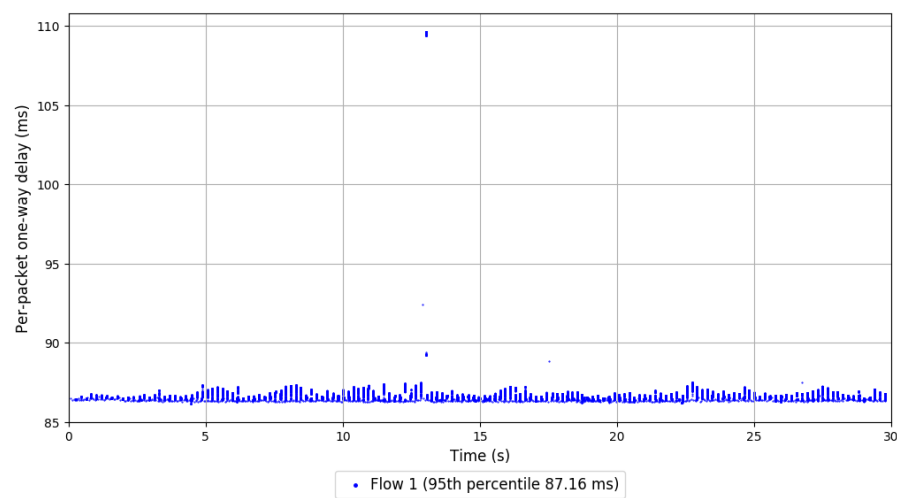
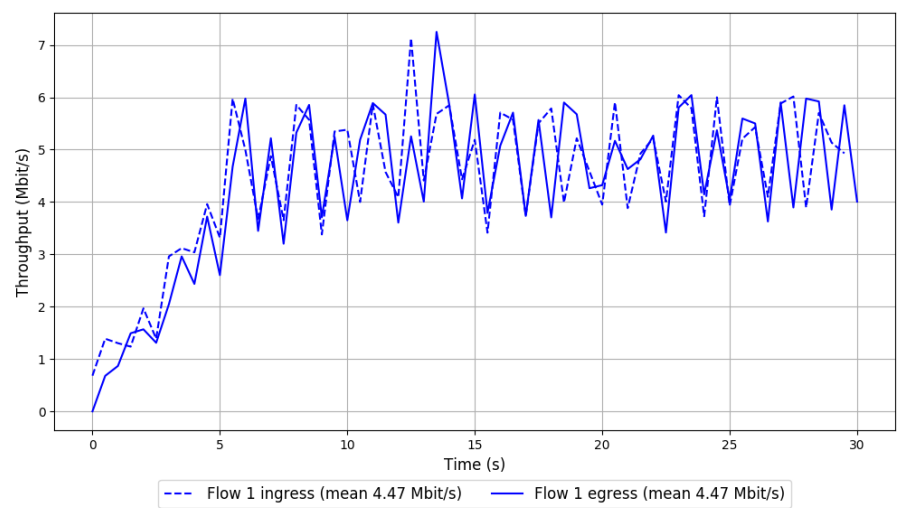
-- Flow 1:

Average throughput: 4.47 Mbit/s

95th percentile per-packet one-way delay: 87.155 ms

Loss rate: 0.77%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-06-27 01:01:38

End at: 2019-06-27 01:02:08

Local clock offset: 13.02 ms

Remote clock offset: 12.726 ms

# Below is generated by plot.py at 2019-06-27 05:09:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.46 Mbit/s

95th percentile per-packet one-way delay: 86.227 ms

Loss rate: 0.76%

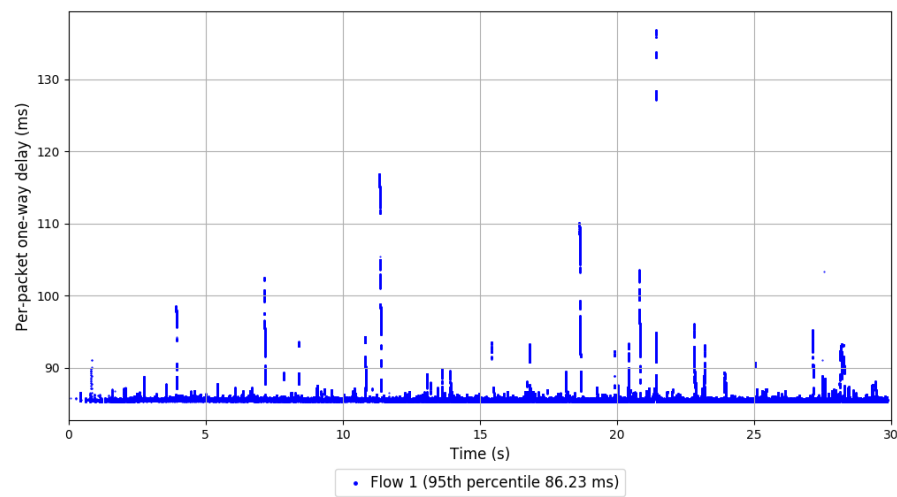
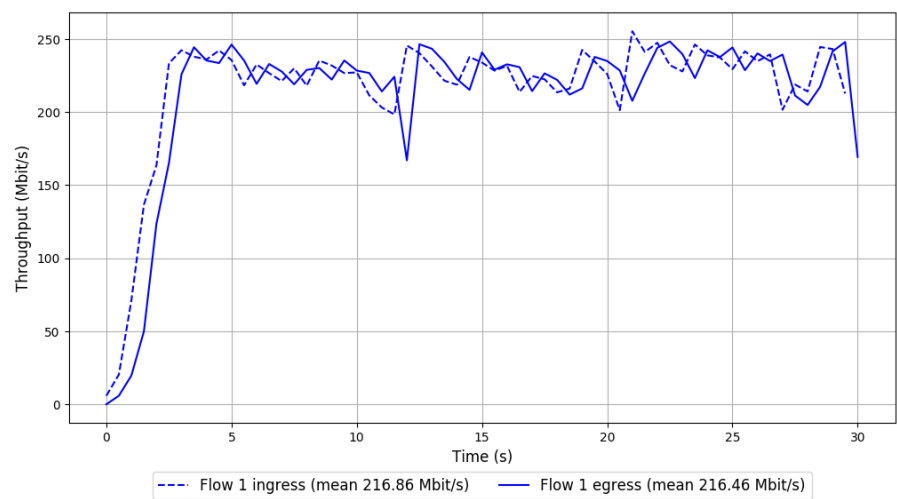
-- Flow 1:

Average throughput: 216.46 Mbit/s

95th percentile per-packet one-way delay: 86.227 ms

Loss rate: 0.76%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-06-27 01:33:37

End at: 2019-06-27 01:34:07

Local clock offset: 23.363 ms

Remote clock offset: 21.5 ms

# Below is generated by plot.py at 2019-06-27 05:09:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 210.90 Mbit/s

95th percentile per-packet one-way delay: 87.540 ms

Loss rate: 0.67%

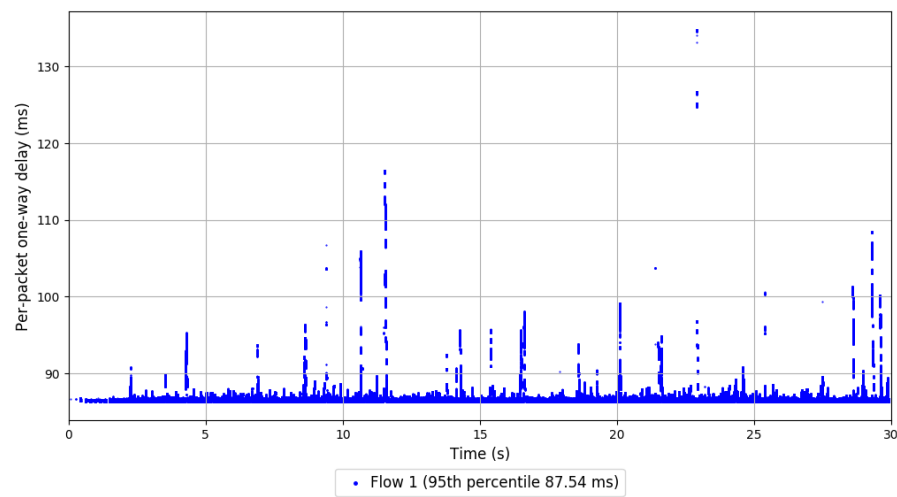
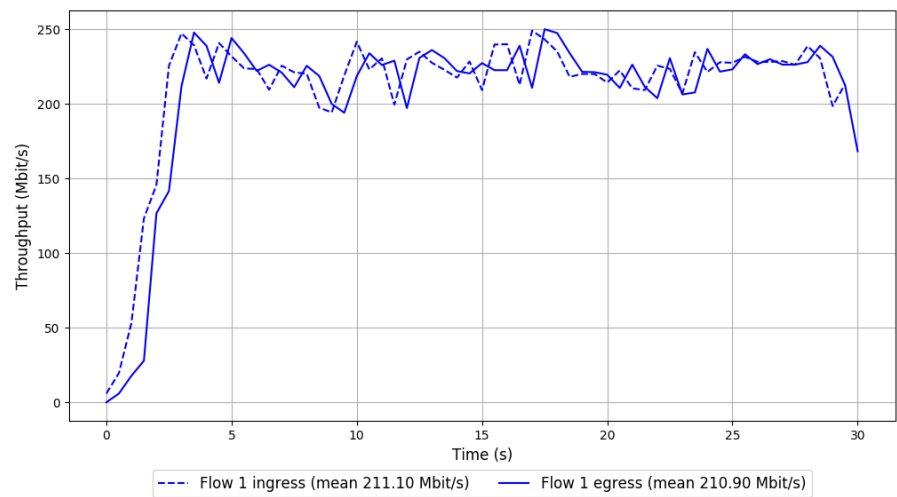
-- Flow 1:

Average throughput: 210.90 Mbit/s

95th percentile per-packet one-way delay: 87.540 ms

Loss rate: 0.67%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-06-27 02:04:57

End at: 2019-06-27 02:05:27

Local clock offset: 21.961 ms

Remote clock offset: 20.499 ms

# Below is generated by plot.py at 2019-06-27 05:09:42

# Datalink statistics

-- Total of 1 flow:

Average throughput: 215.96 Mbit/s

95th percentile per-packet one-way delay: 86.897 ms

Loss rate: 0.76%

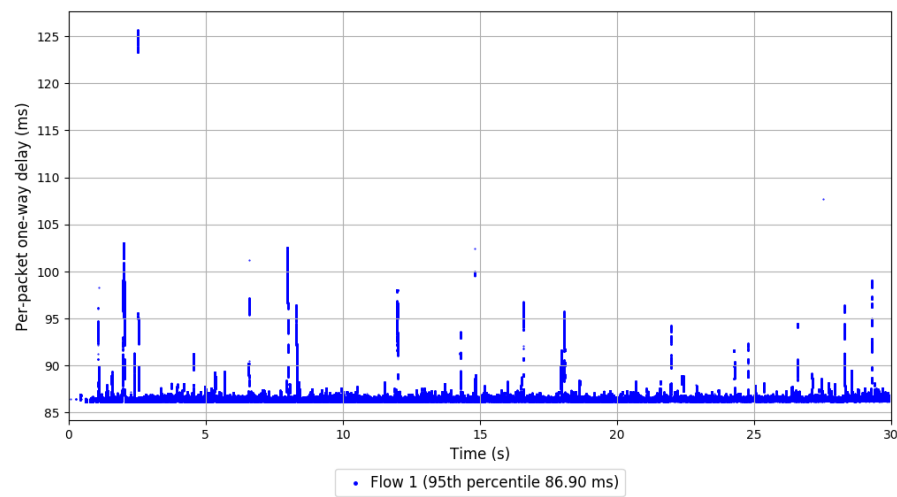
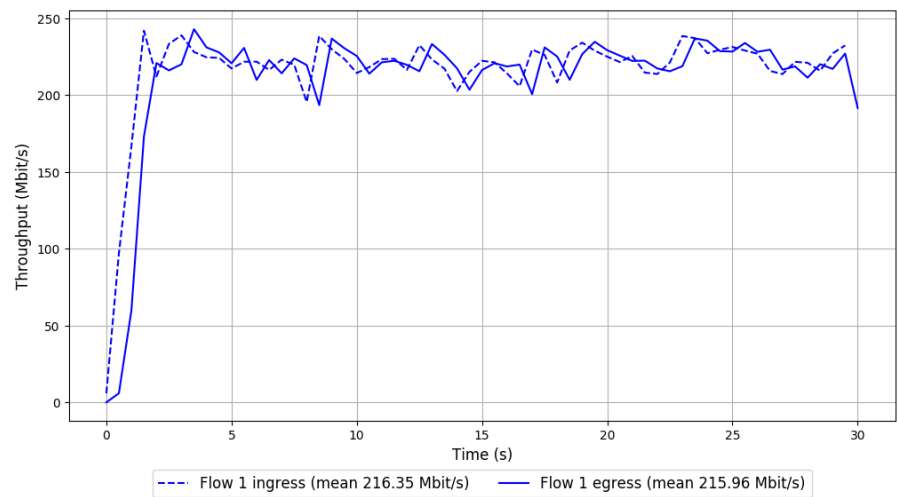
-- Flow 1:

Average throughput: 215.96 Mbit/s

95th percentile per-packet one-way delay: 86.897 ms

Loss rate: 0.76%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-06-27 02:37:11

End at: 2019-06-27 02:37:41

Local clock offset: 11.642 ms

Remote clock offset: 10.46 ms

# Below is generated by plot.py at 2019-06-27 05:10:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 216.11 Mbit/s

95th percentile per-packet one-way delay: 86.956 ms

Loss rate: 0.70%

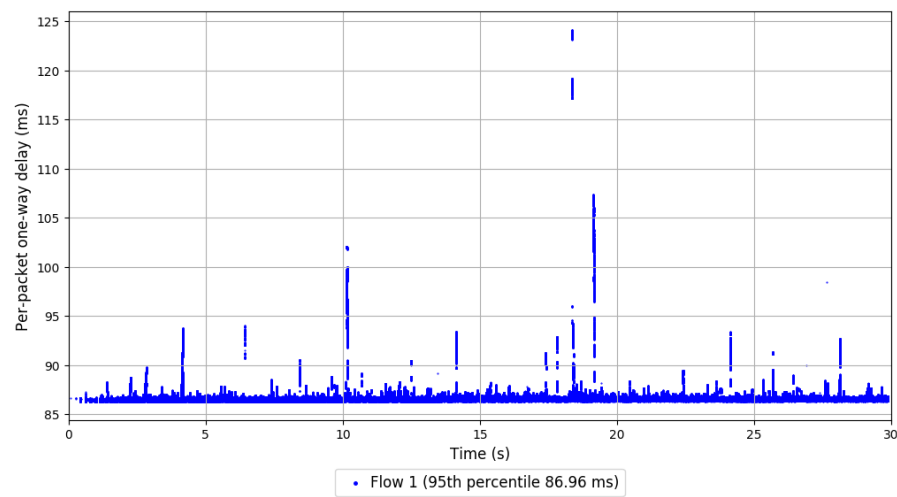
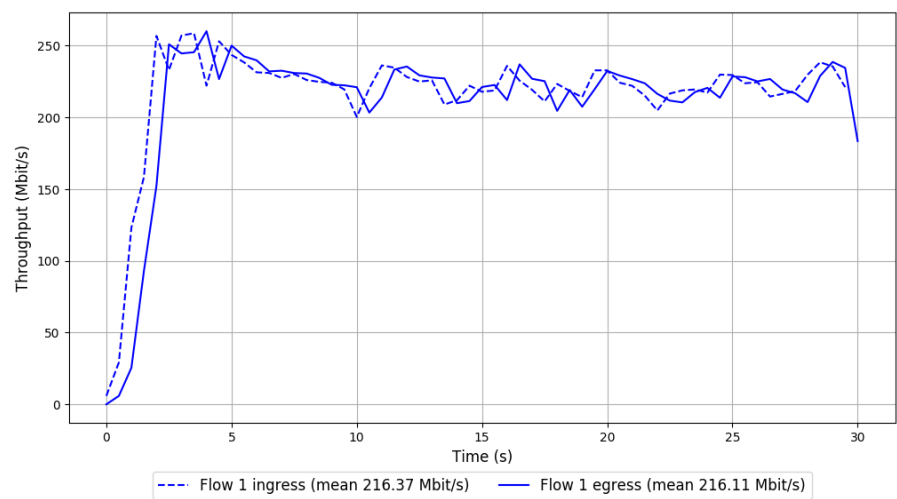
-- Flow 1:

Average throughput: 216.11 Mbit/s

95th percentile per-packet one-way delay: 86.956 ms

Loss rate: 0.70%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-06-27 03:09:28

End at: 2019-06-27 03:09:58

Local clock offset: 3.323 ms

Remote clock offset: 3.088 ms

# Below is generated by plot.py at 2019-06-27 05:10:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 203.34 Mbit/s

95th percentile per-packet one-way delay: 86.455 ms

Loss rate: 0.67%

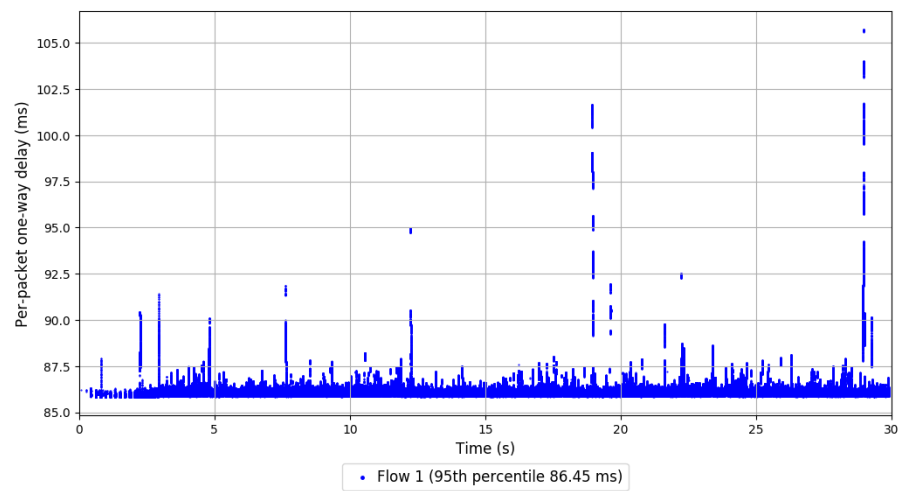
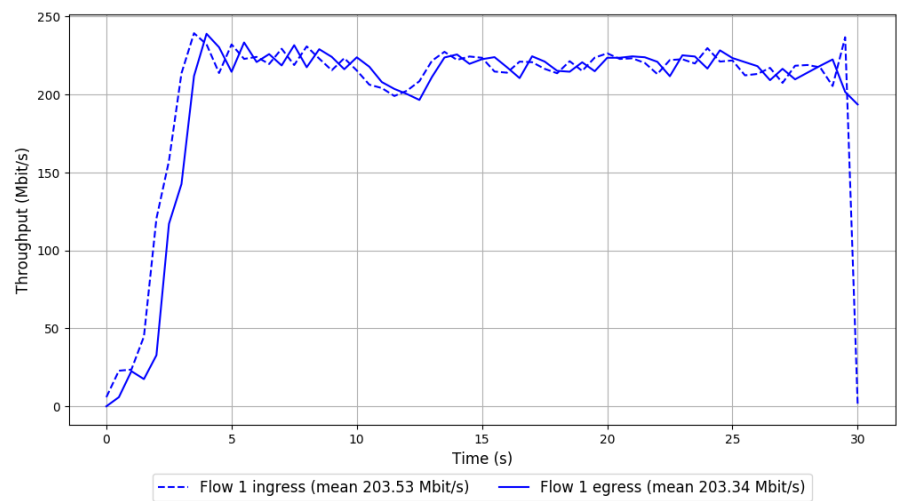
-- Flow 1:

Average throughput: 203.34 Mbit/s

95th percentile per-packet one-way delay: 86.455 ms

Loss rate: 0.67%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-06-27 00:53:04

End at: 2019-06-27 00:53:34

Local clock offset: 6.787 ms

Remote clock offset: 6.358 ms

# Below is generated by plot.py at 2019-06-27 05:10:53

# Datalink statistics

-- Total of 1 flow:

Average throughput: 321.44 Mbit/s

95th percentile per-packet one-way delay: 87.598 ms

Loss rate: 0.59%

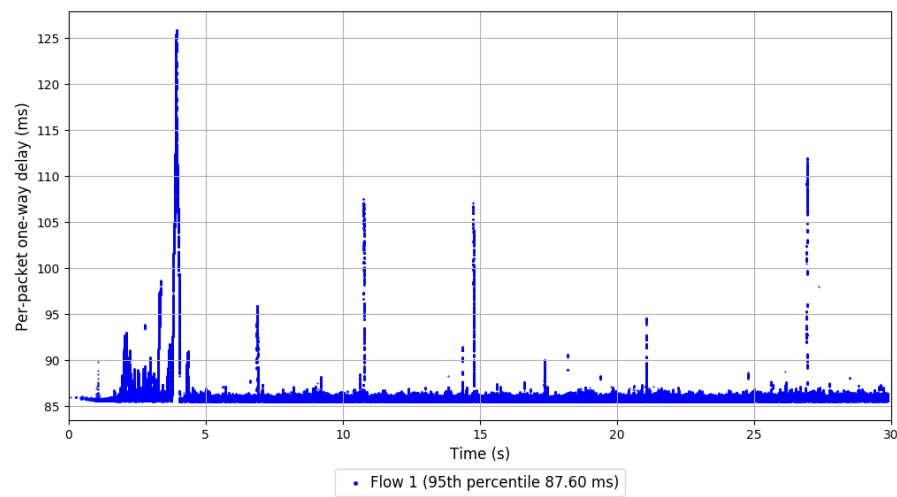
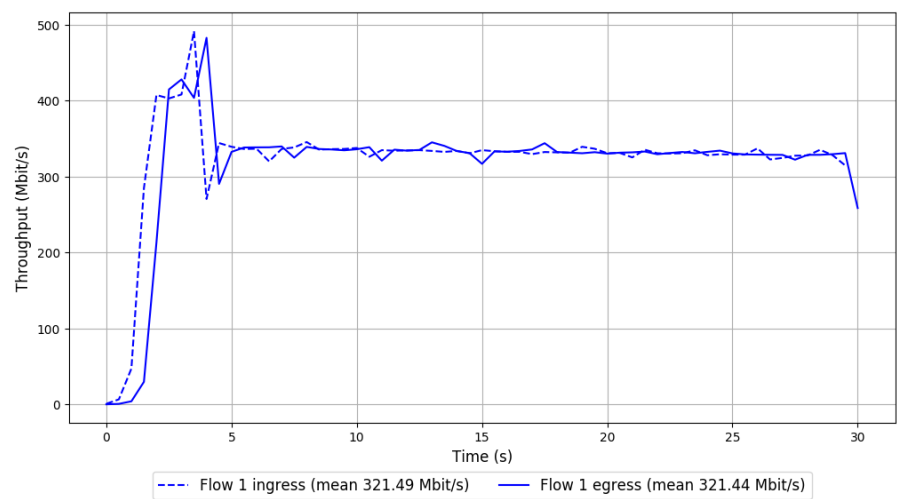
-- Flow 1:

Average throughput: 321.44 Mbit/s

95th percentile per-packet one-way delay: 87.598 ms

Loss rate: 0.59%

Run 1: Report of TCP Vegas — Data Link

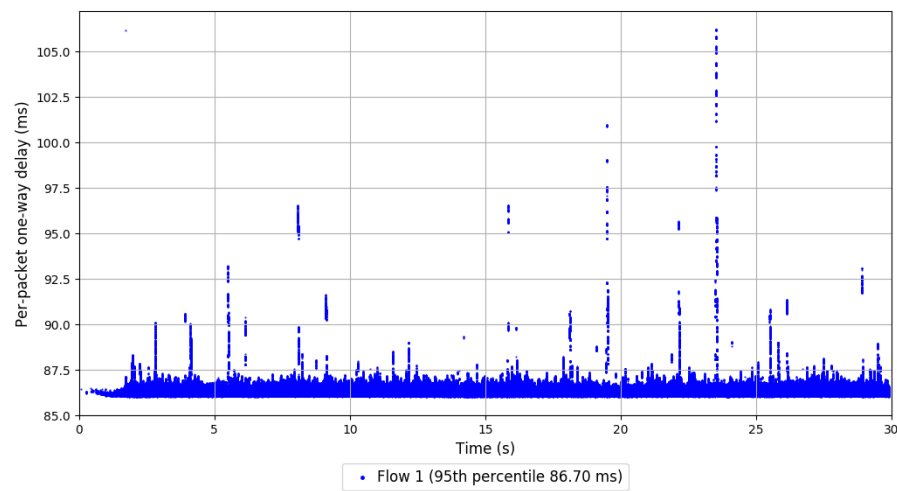
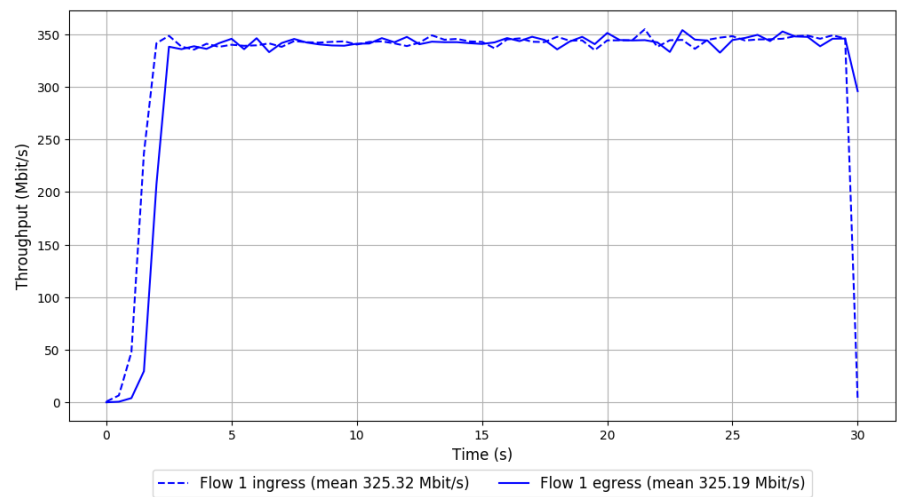


Run 2: Statistics of TCP Vegas

Start at: 2019-06-27 01:24:40  
End at: 2019-06-27 01:25:10  
Local clock offset: 25.841 ms  
Remote clock offset: 24.047 ms

# Below is generated by plot.py at 2019-06-27 05:11:43  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 325.19 Mbit/s  
95th percentile per-packet one-way delay: 86.705 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 325.19 Mbit/s  
95th percentile per-packet one-way delay: 86.705 ms  
Loss rate: 0.61%

Run 2: Report of TCP Vegas — Data Link



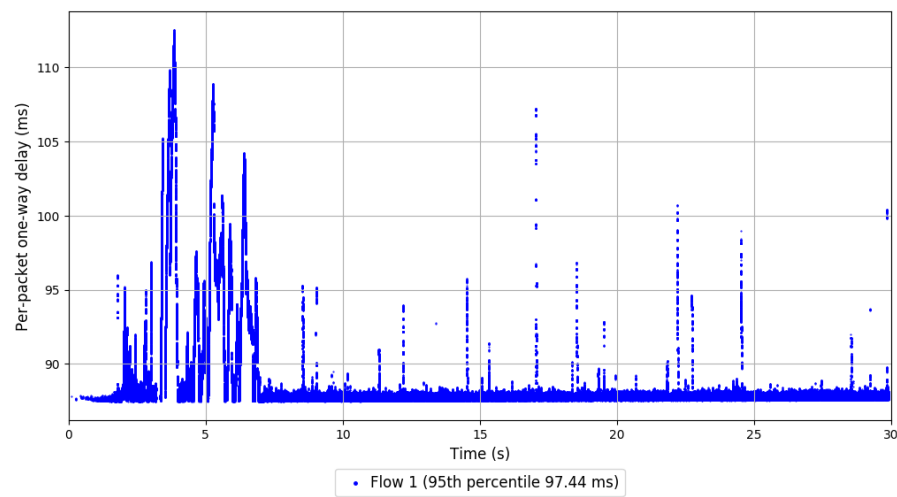
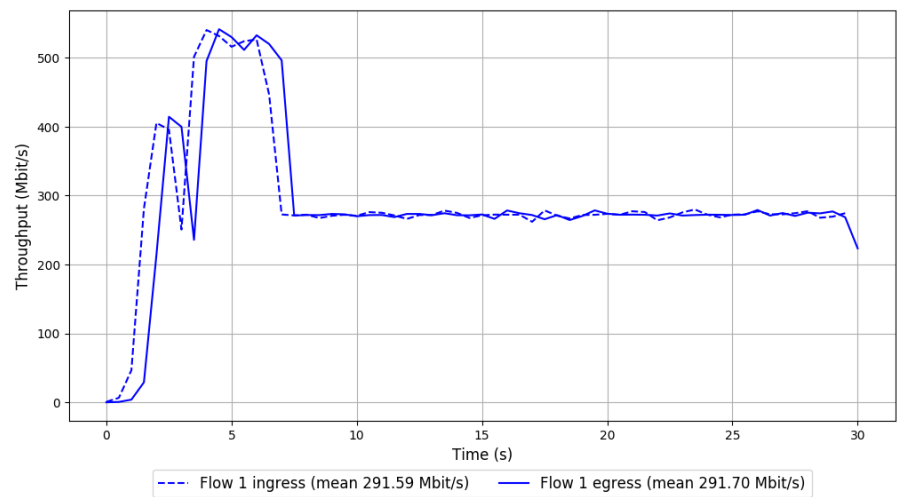


Run 3: Statistics of TCP Vegas

Start at: 2019-06-27 01:56:27  
End at: 2019-06-27 01:56:57  
Local clock offset: 45.157 ms  
Remote clock offset: 40.875 ms

# Below is generated by plot.py at 2019-06-27 05:12:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 291.70 Mbit/s  
95th percentile per-packet one-way delay: 97.441 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 291.70 Mbit/s  
95th percentile per-packet one-way delay: 97.441 ms  
Loss rate: 0.54%

Run 3: Report of TCP Vegas — Data Link

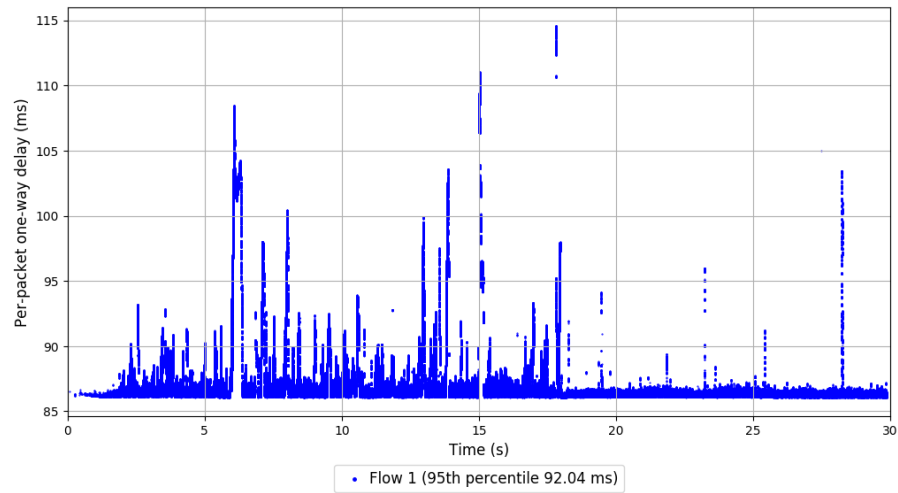
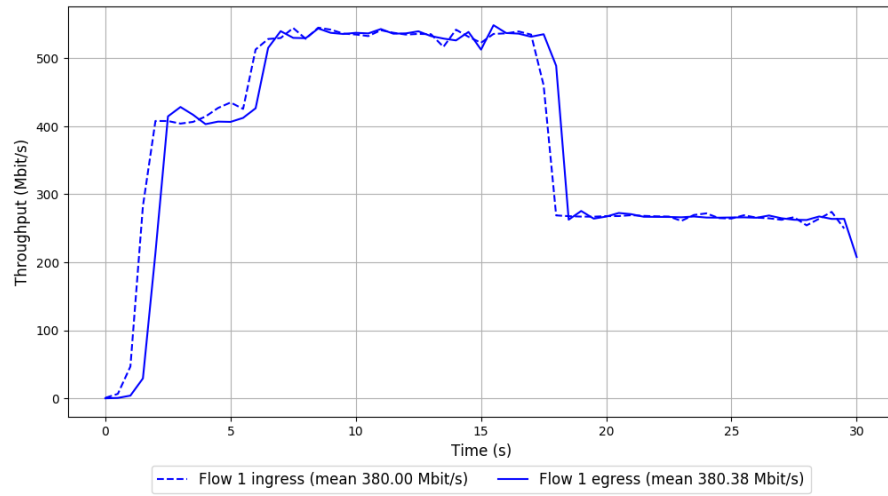


Run 4: Statistics of TCP Vegas

Start at: 2019-06-27 02:28:12  
End at: 2019-06-27 02:28:42  
Local clock offset: 22.024 ms  
Remote clock offset: 20.176 ms

# Below is generated by plot.py at 2019-06-27 05:16:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 380.38 Mbit/s  
95th percentile per-packet one-way delay: 92.042 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 380.38 Mbit/s  
95th percentile per-packet one-way delay: 92.042 ms  
Loss rate: 0.48%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-06-27 03:00:29

End at: 2019-06-27 03:00:59

Local clock offset: 5.368 ms

Remote clock offset: 4.783 ms

# Below is generated by plot.py at 2019-06-27 05:16:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 322.62 Mbit/s

95th percentile per-packet one-way delay: 87.274 ms

Loss rate: 0.59%

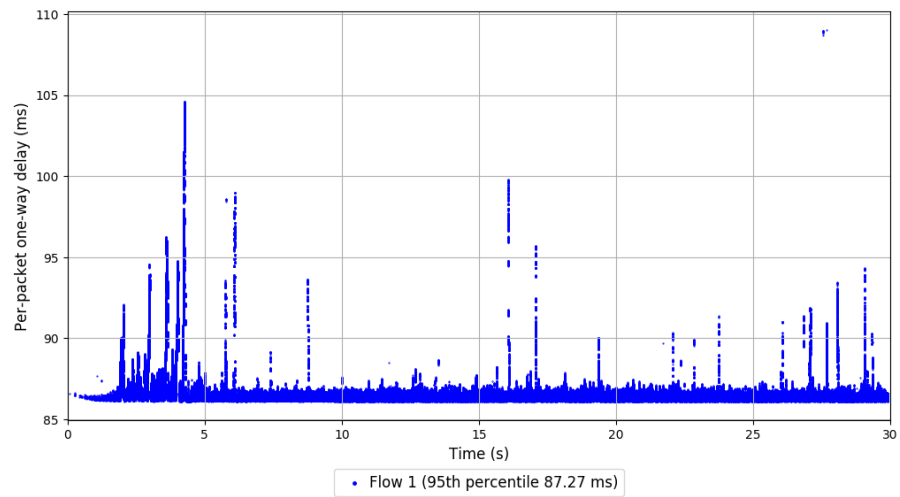
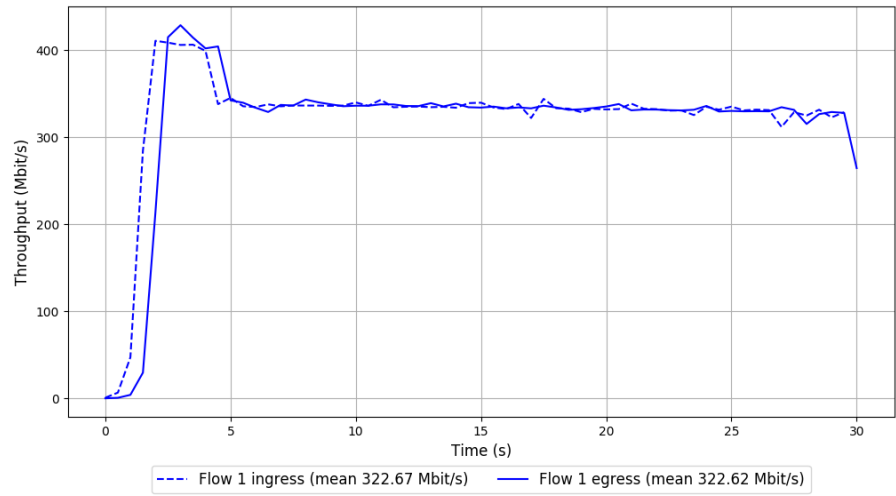
-- Flow 1:

Average throughput: 322.62 Mbit/s

95th percentile per-packet one-way delay: 87.274 ms

Loss rate: 0.59%

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

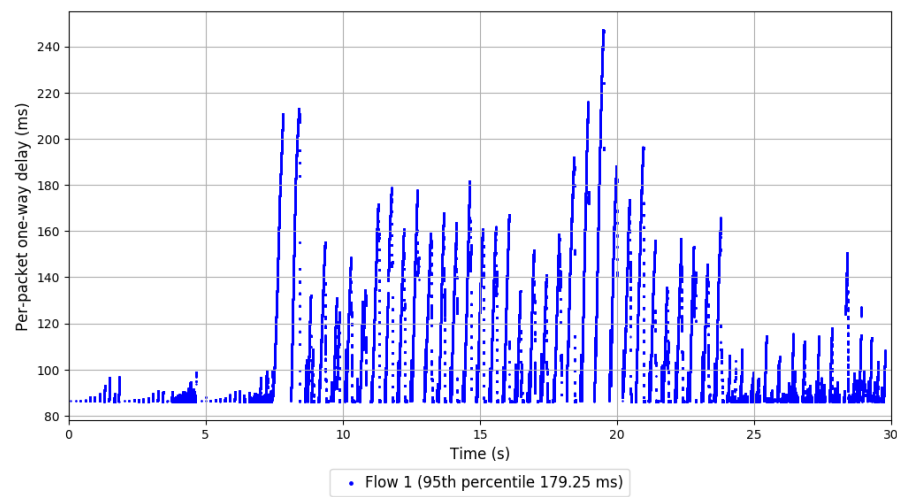
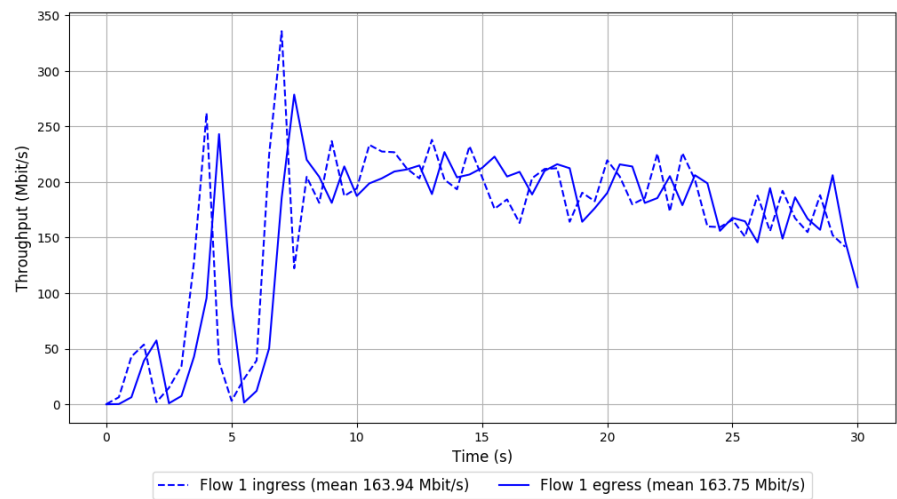


Run 1: Statistics of Verus

Start at: 2019-06-27 01:07:01  
End at: 2019-06-27 01:07:31  
Local clock offset: 16.204 ms  
Remote clock offset: 15.004 ms

# Below is generated by plot.py at 2019-06-27 05:16:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 163.75 Mbit/s  
95th percentile per-packet one-way delay: 179.252 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 163.75 Mbit/s  
95th percentile per-packet one-way delay: 179.252 ms  
Loss rate: 0.69%

Run 1: Report of Verus — Data Link



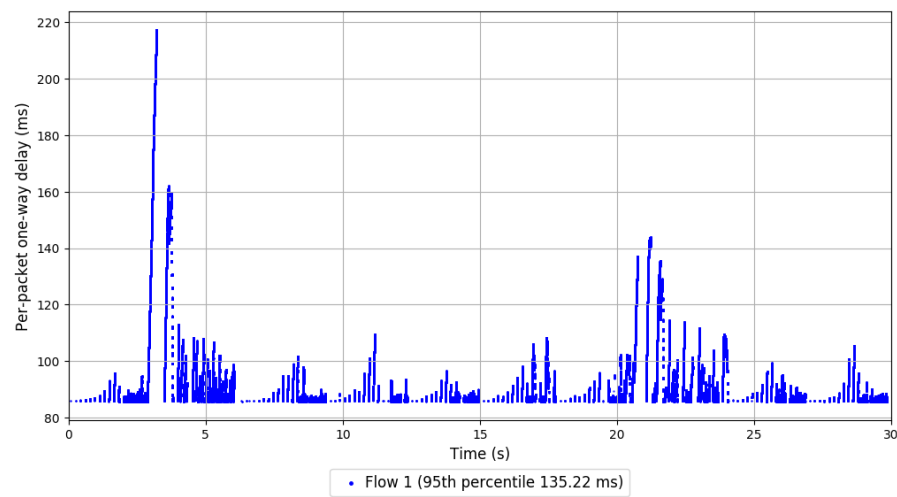
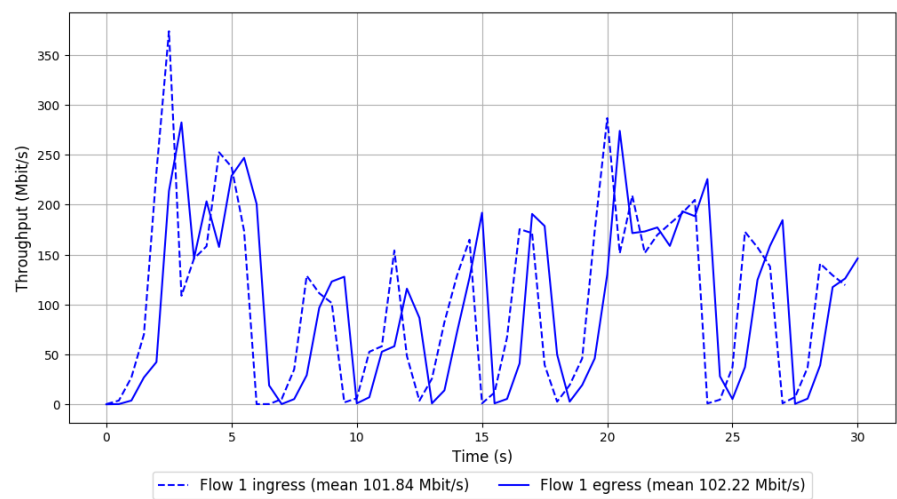


Run 2: Statistics of Verus

Start at: 2019-06-27 01:38:56  
End at: 2019-06-27 01:39:26  
Local clock offset: 26.326 ms  
Remote clock offset: 24.482 ms

# Below is generated by plot.py at 2019-06-27 05:16:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 102.22 Mbit/s  
95th percentile per-packet one-way delay: 135.223 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 102.22 Mbit/s  
95th percentile per-packet one-way delay: 135.223 ms  
Loss rate: 0.21%

Run 2: Report of Verus — Data Link

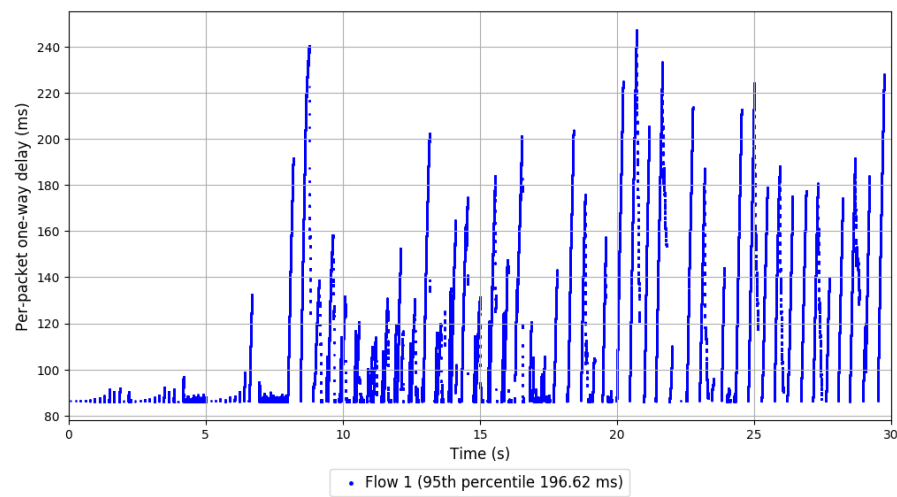
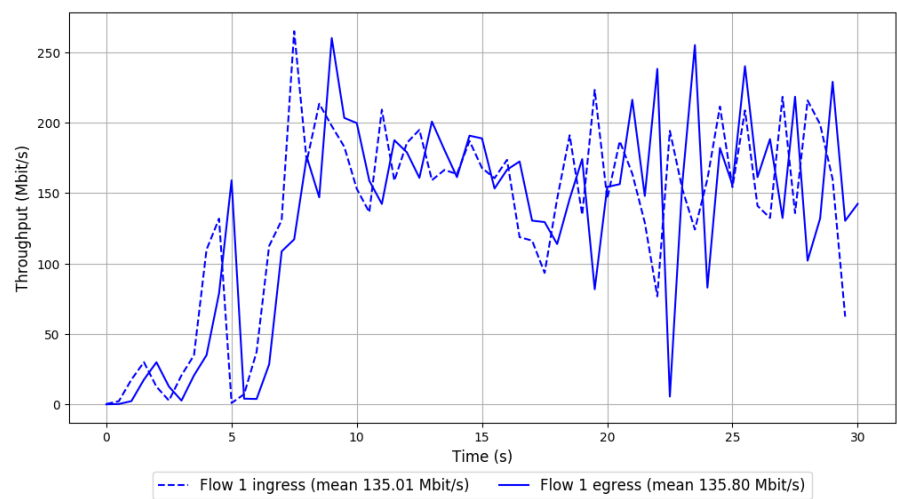


Run 3: Statistics of Verus

Start at: 2019-06-27 02:10:16  
End at: 2019-06-27 02:10:46  
Local clock offset: 18.055 ms  
Remote clock offset: 16.533 ms

# Below is generated by plot.py at 2019-06-27 05:16:38  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 135.80 Mbit/s  
95th percentile per-packet one-way delay: 196.616 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 135.80 Mbit/s  
95th percentile per-packet one-way delay: 196.616 ms  
Loss rate: 0.50%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2019-06-27 02:42:35

End at: 2019-06-27 02:43:05

Local clock offset: 7.663 ms

Remote clock offset: 6.687 ms

# Below is generated by plot.py at 2019-06-27 05:16:38

# Datalink statistics

-- Total of 1 flow:

Average throughput: 121.89 Mbit/s

95th percentile per-packet one-way delay: 165.759 ms

Loss rate: 0.06%

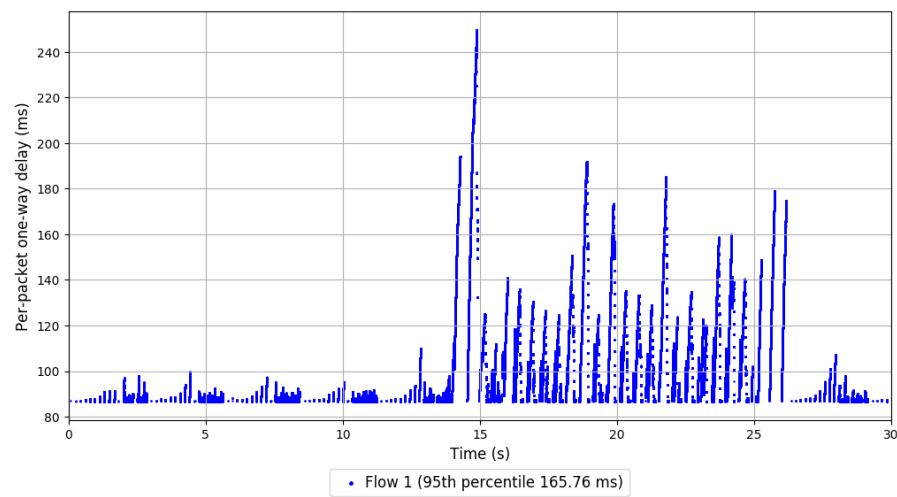
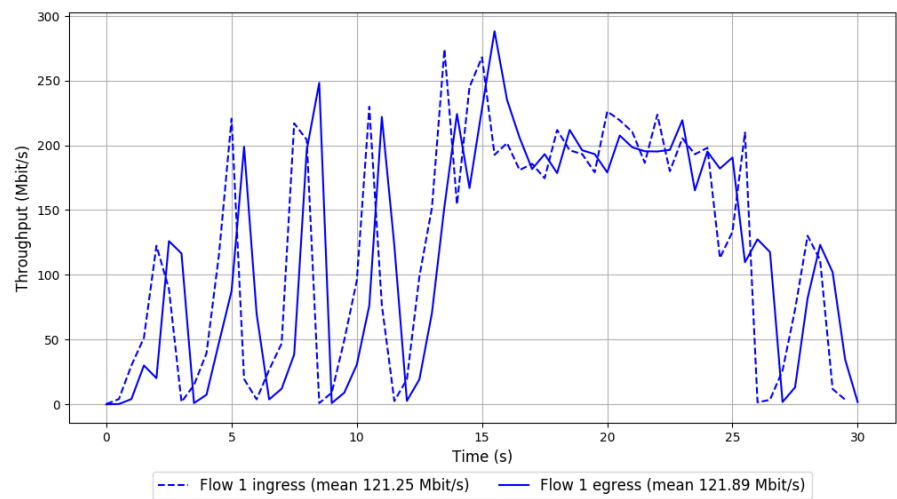
-- Flow 1:

Average throughput: 121.89 Mbit/s

95th percentile per-packet one-way delay: 165.759 ms

Loss rate: 0.06%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-06-27 03:14:51

End at: 2019-06-27 03:15:21

Local clock offset: 2.58 ms

Remote clock offset: 2.099 ms

# Below is generated by plot.py at 2019-06-27 05:17:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 164.45 Mbit/s

95th percentile per-packet one-way delay: 207.477 ms

Loss rate: 1.77%

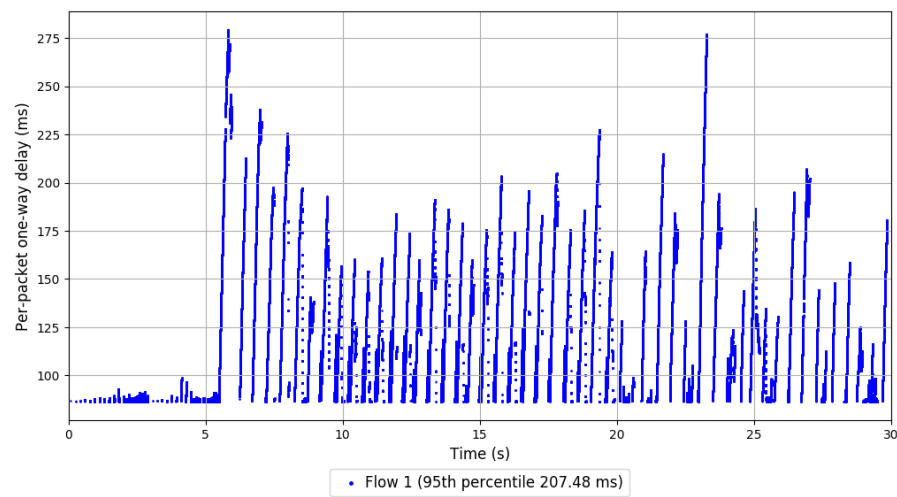
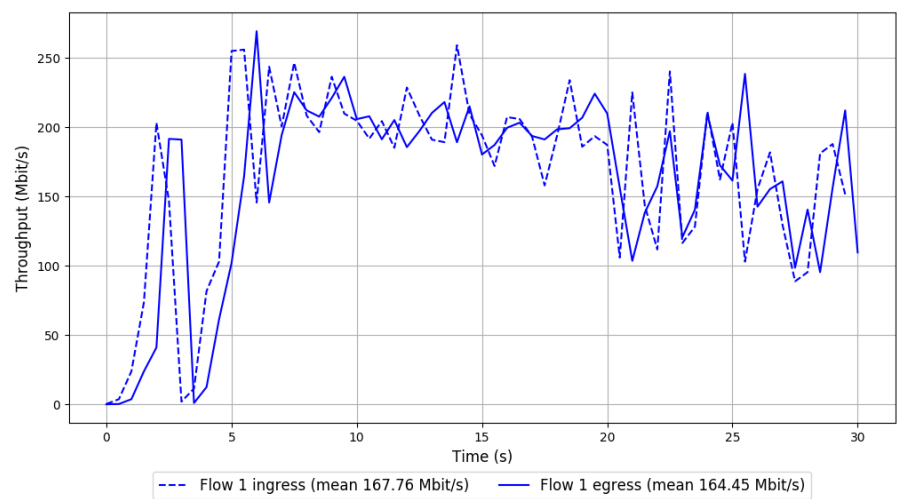
-- Flow 1:

Average throughput: 164.45 Mbit/s

95th percentile per-packet one-way delay: 207.477 ms

Loss rate: 1.77%

Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-06-27 01:14:26

End at: 2019-06-27 01:14:56

Local clock offset: 18.378 ms

Remote clock offset: 17.56 ms

# Below is generated by plot.py at 2019-06-27 05:17:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 183.12 Mbit/s

95th percentile per-packet one-way delay: 87.932 ms

Loss rate: 1.26%

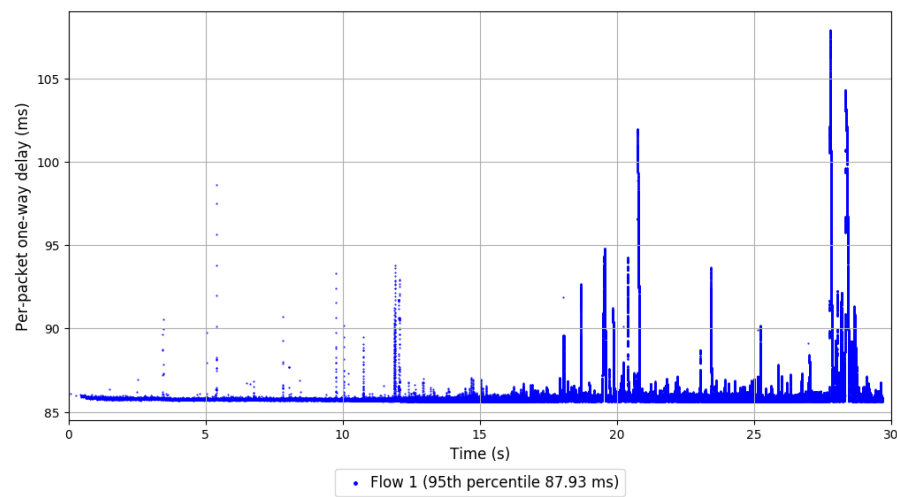
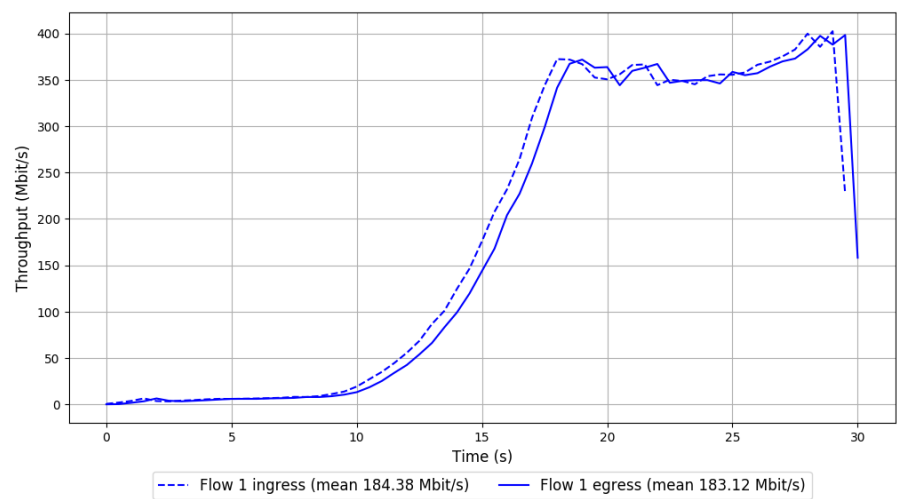
-- Flow 1:

Average throughput: 183.12 Mbit/s

95th percentile per-packet one-way delay: 87.932 ms

Loss rate: 1.26%

Run 1: Report of PCC-Vivace — Data Link

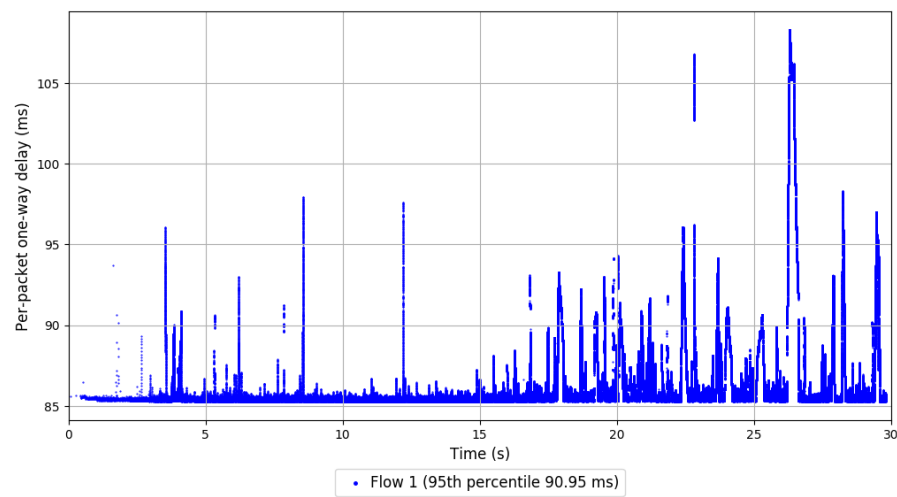
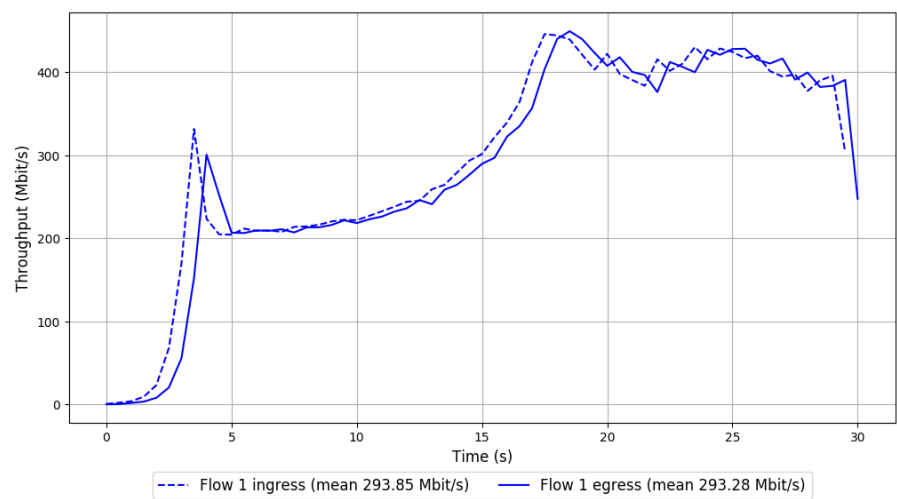


Run 2: Statistics of PCC-Vivace

Start at: 2019-06-27 01:46:07  
End at: 2019-06-27 01:46:37  
Local clock offset: 33.032 ms  
Remote clock offset: 31.141 ms

# Below is generated by plot.py at 2019-06-27 05:18:04  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 293.28 Mbit/s  
95th percentile per-packet one-way delay: 90.954 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 293.28 Mbit/s  
95th percentile per-packet one-way delay: 90.954 ms  
Loss rate: 0.77%

Run 2: Report of PCC-Vivace — Data Link

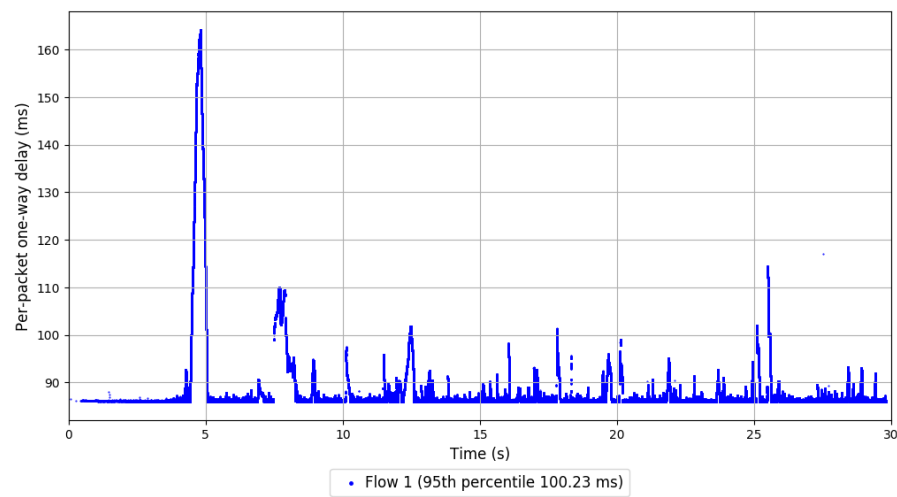
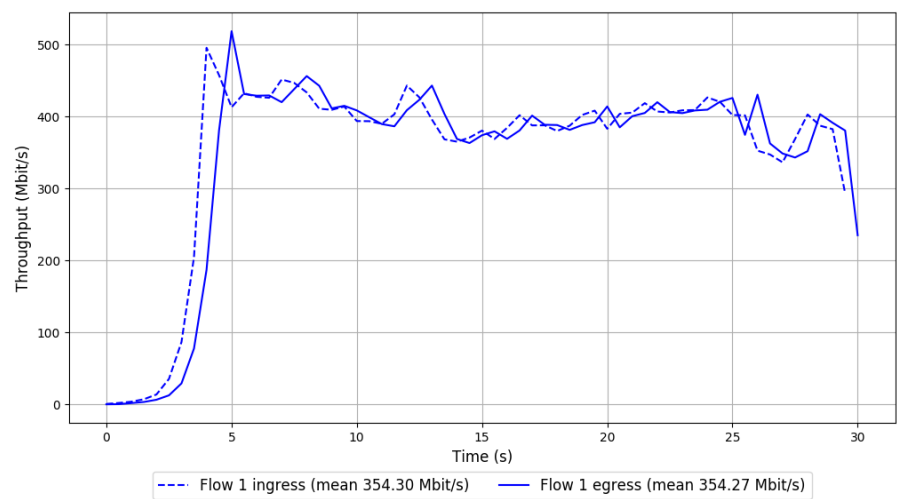


Run 3: Statistics of PCC-Vivace

Start at: 2019-06-27 02:17:44  
End at: 2019-06-27 02:18:14  
Local clock offset: 17.764 ms  
Remote clock offset: 16.336 ms

# Below is generated by plot.py at 2019-06-27 05:19:11  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 354.27 Mbit/s  
95th percentile per-packet one-way delay: 100.231 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 354.27 Mbit/s  
95th percentile per-packet one-way delay: 100.231 ms  
Loss rate: 0.59%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-06-27 02:50:02

End at: 2019-06-27 02:50:32

Local clock offset: 4.873 ms

Remote clock offset: 4.808 ms

# Below is generated by plot.py at 2019-06-27 05:19:11

# Datalink statistics

-- Total of 1 flow:

Average throughput: 335.80 Mbit/s

95th percentile per-packet one-way delay: 92.842 ms

Loss rate: 0.55%

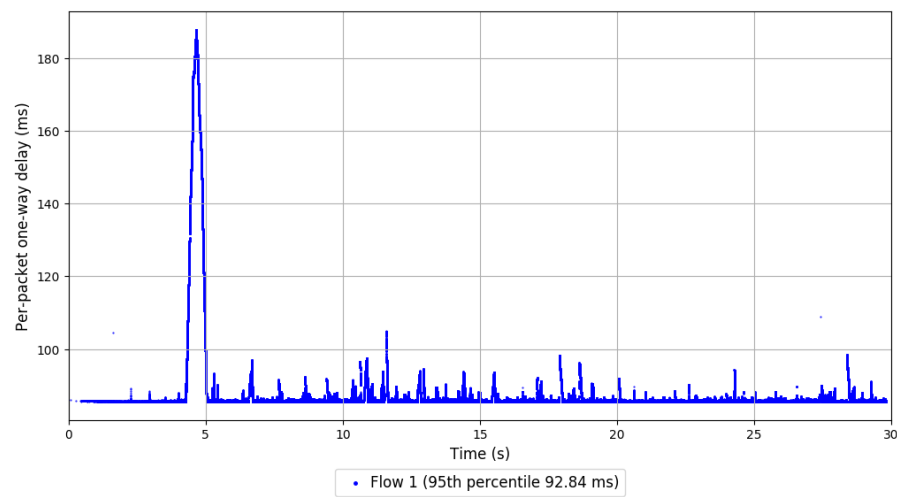
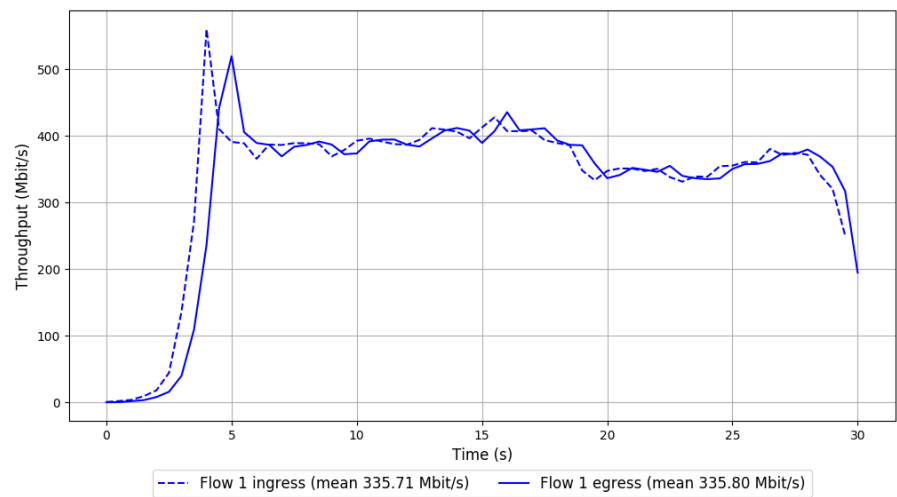
-- Flow 1:

Average throughput: 335.80 Mbit/s

95th percentile per-packet one-way delay: 92.842 ms

Loss rate: 0.55%

Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-06-27 03:22:13

End at: 2019-06-27 03:22:43

Local clock offset: 1.829 ms

Remote clock offset: 1.613 ms

# Below is generated by plot.py at 2019-06-27 05:19:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 348.50 Mbit/s

95th percentile per-packet one-way delay: 97.408 ms

Loss rate: 0.56%

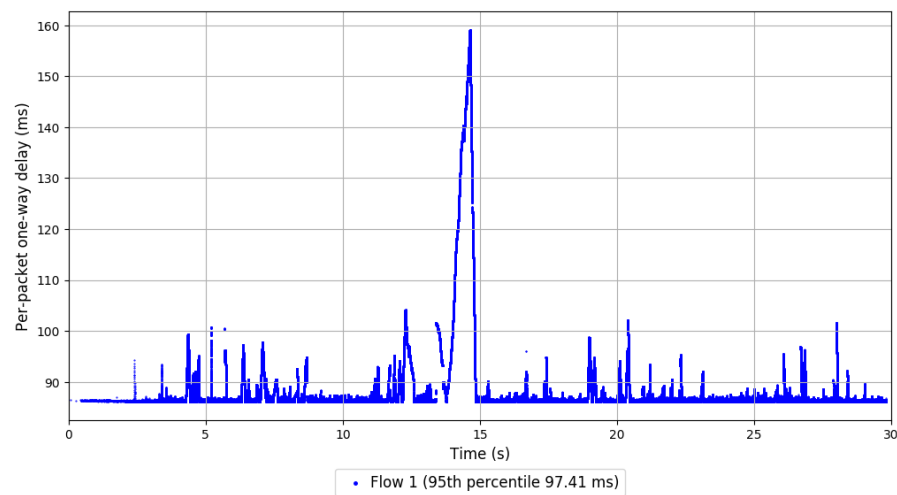
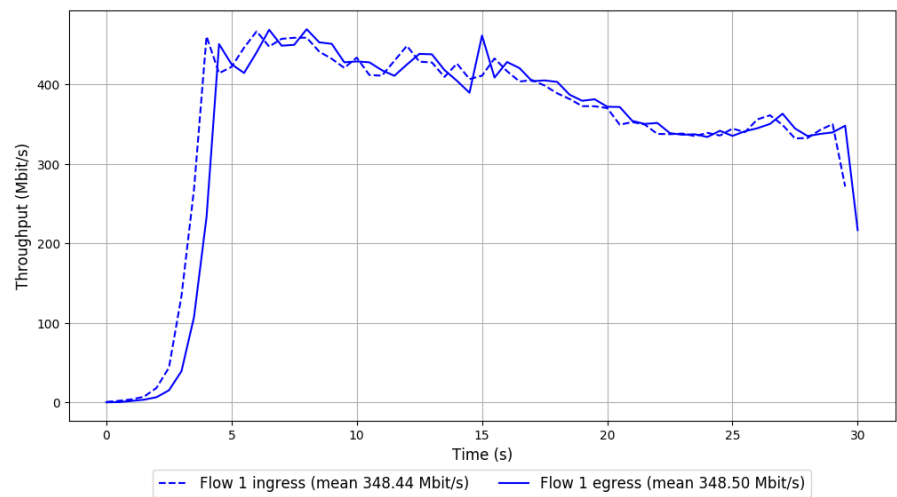
-- Flow 1:

Average throughput: 348.50 Mbit/s

95th percentile per-packet one-way delay: 97.408 ms

Loss rate: 0.56%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

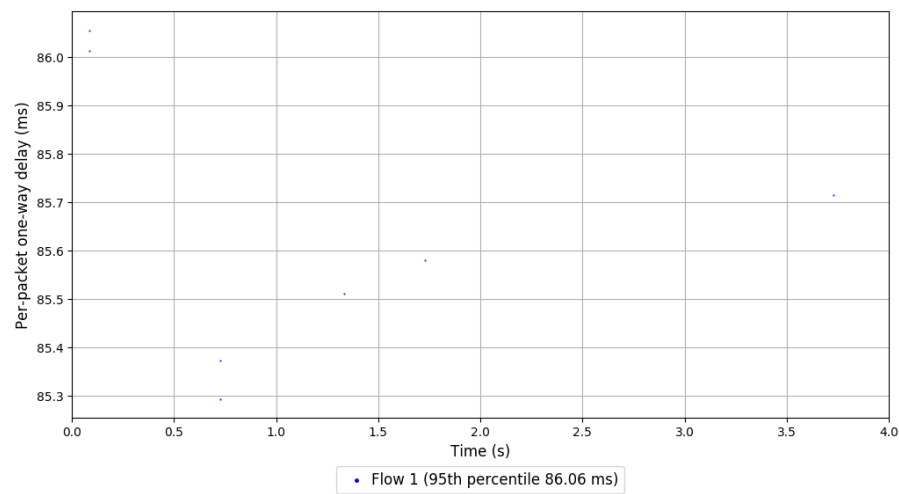
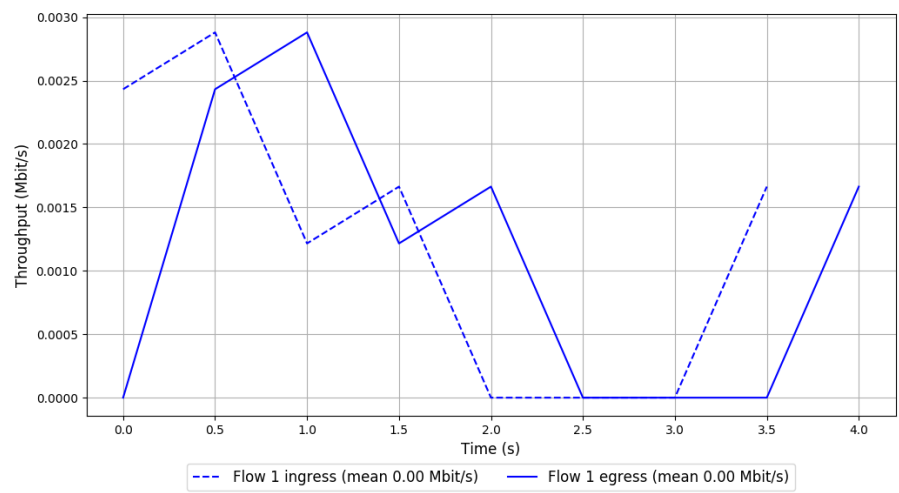
Start at: 2019-06-27 00:56:06

End at: 2019-06-27 00:56:36

Local clock offset: 12.279 ms

Remote clock offset: 11.957 ms

Run 1: Report of WebRTC media — Data Link

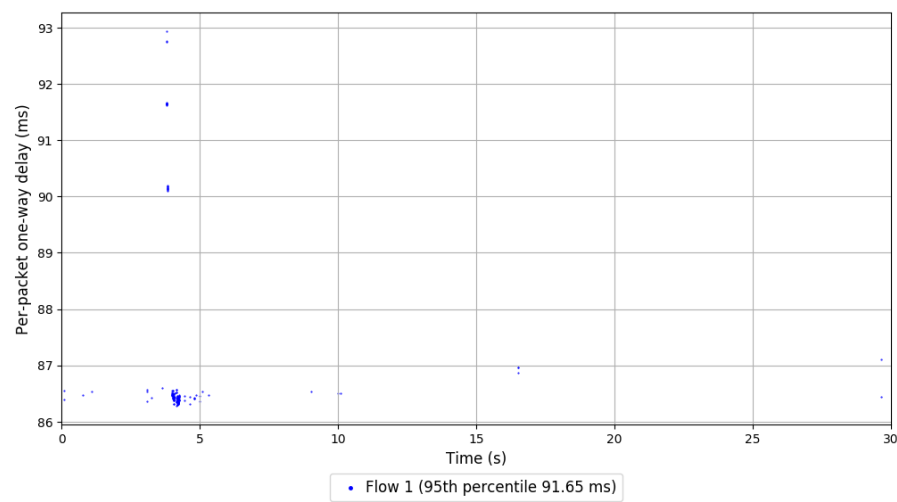
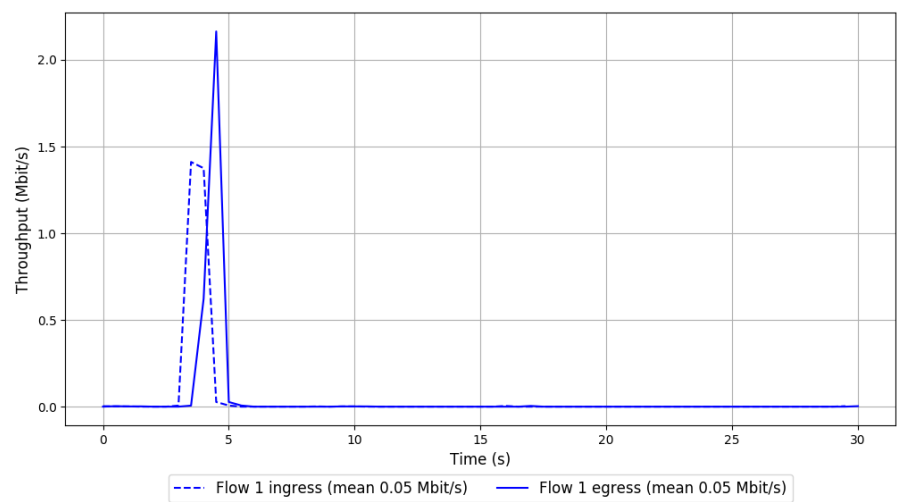


Run 2: Statistics of WebRTC media

Start at: 2019-06-27 01:27:40  
End at: 2019-06-27 01:28:10  
Local clock offset: 23.495 ms  
Remote clock offset: 21.535 ms

# Below is generated by plot.py at 2019-06-27 05:19:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 91.651 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 91.651 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

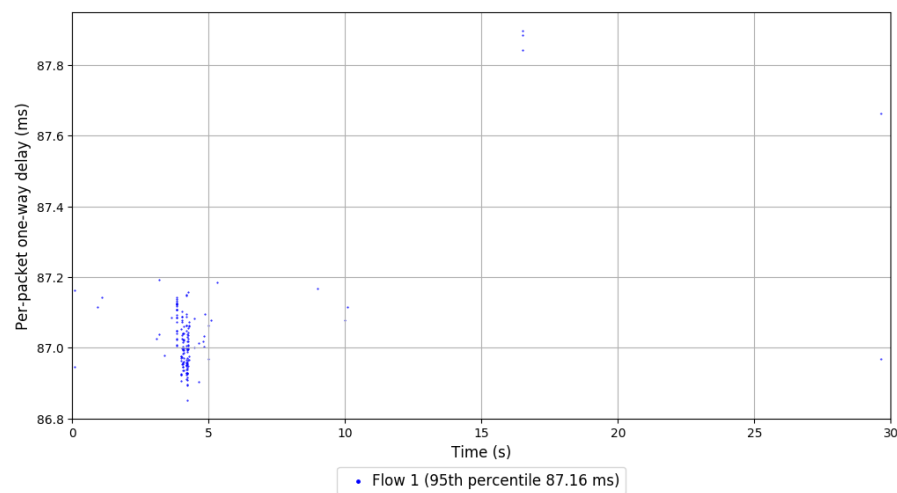
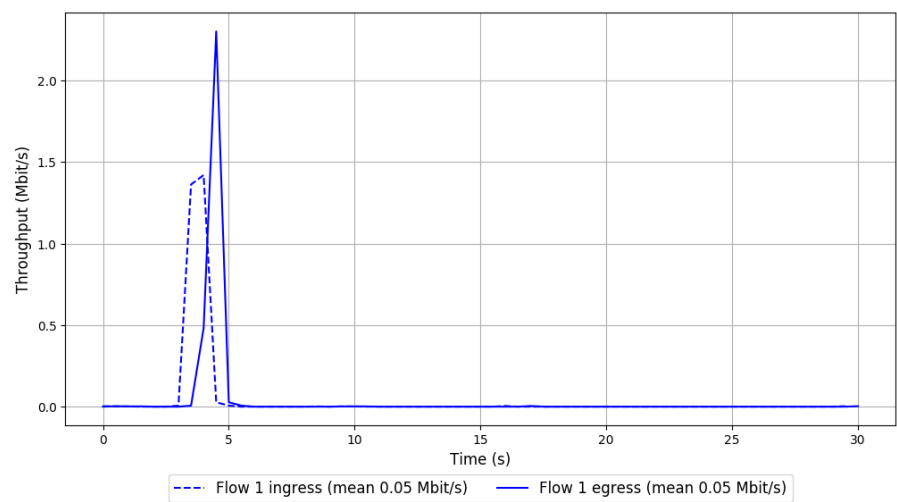


Run 3: Statistics of WebRTC media

Start at: 2019-06-27 01:59:26  
End at: 2019-06-27 01:59:56  
Local clock offset: 33.476 ms  
Remote clock offset: 30.386 ms

# Below is generated by plot.py at 2019-06-27 05:19:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 87.159 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 87.159 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



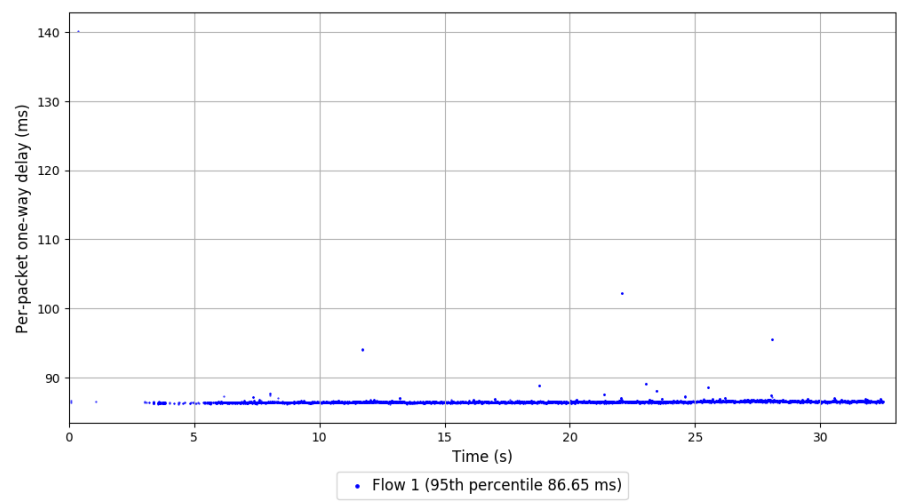
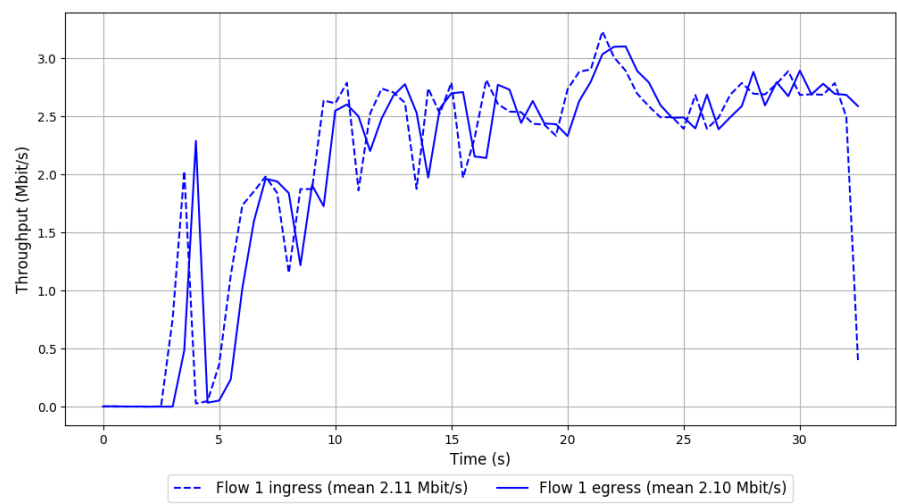


Run 4: Statistics of WebRTC media

Start at: 2019-06-27 02:31:16  
End at: 2019-06-27 02:31:46  
Local clock offset: 20.825 ms  
Remote clock offset: 19.258 ms

# Below is generated by plot.py at 2019-06-27 05:19:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 86.648 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 86.648 ms  
Loss rate: 0.58%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-06-27 03:03:29

End at: 2019-06-27 03:04:00

Local clock offset: 4.807 ms

Remote clock offset: 4.971 ms

# Below is generated by plot.py at 2019-06-27 05:19:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 85.753 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 1.43 Mbit/s

95th percentile per-packet one-way delay: 85.753 ms

Loss rate: 1.10%

Run 5: Report of WebRTC media — Data Link

