

## Pantheon Report

Generated at 2019-07-18 08:46:10 (UTC).

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

Repeated the test of 24 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:

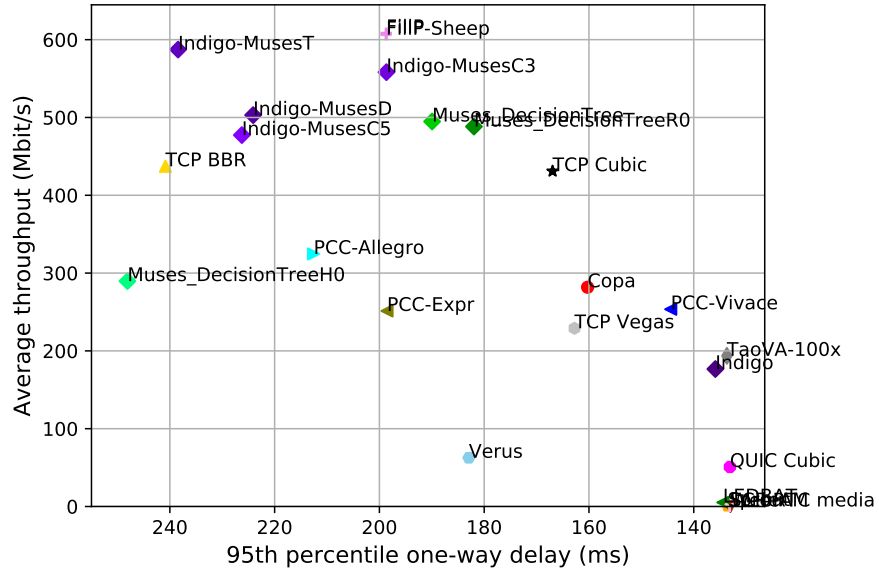
```
Linux 4.15.0-1036-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

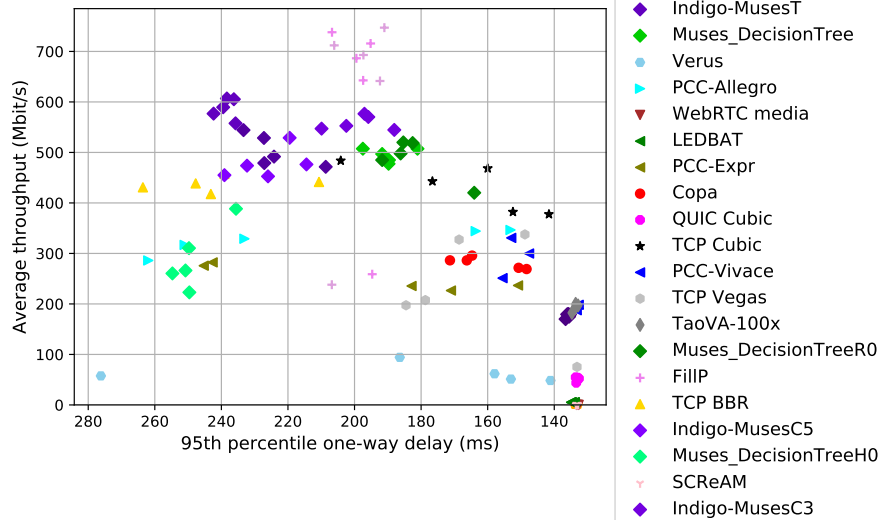
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third\_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4  
third\_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

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



test from GCE London 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	437.27	240.84	2.52
Copa	5	281.78	160.26	1.10
TCP Cubic	5	430.94	166.95	1.19
FillP	5	608.35	198.69	3.37
FillP-Sheep	5	606.32	198.73	2.42
Indigo	5	176.66	135.88	1.14
Indigo-MusesC3	5	558.23	198.66	1.34
Indigo-MusesC5	5	477.34	226.26	2.14
Indigo-MusesD	5	503.01	224.10	1.63
Indigo-MusesT	5	587.24	238.43	3.02
LEDBAT	5	5.23	134.44	1.78
Muses_DecisionTree	5	494.84	189.94	1.42
Muses_DecisionTreeH0	5	289.71	248.09	10.77
Muses_DecisionTreeR0	5	488.31	181.95	1.50
PCC-Allegro	5	324.56	212.56	3.60
PCC-Expr	5	251.33	198.55	3.52
QUIC Cubic	5	50.84	133.10	1.39
SCReAM	5	0.15	133.16	0.85
Sprout	5	0.66	133.53	0.73
TaoVA-100x	5	193.61	133.67	1.12
TCP Vegas	5	229.06	162.77	1.20
Verus	5	62.61	182.94	2.07
PCC-Vivace	5	253.50	144.39	1.27
WebRTC media	4	0.05	133.00	0.00

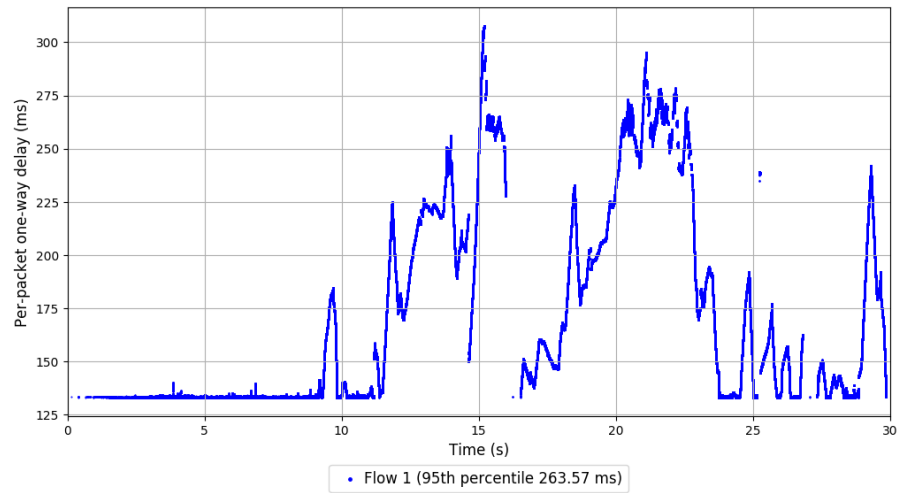
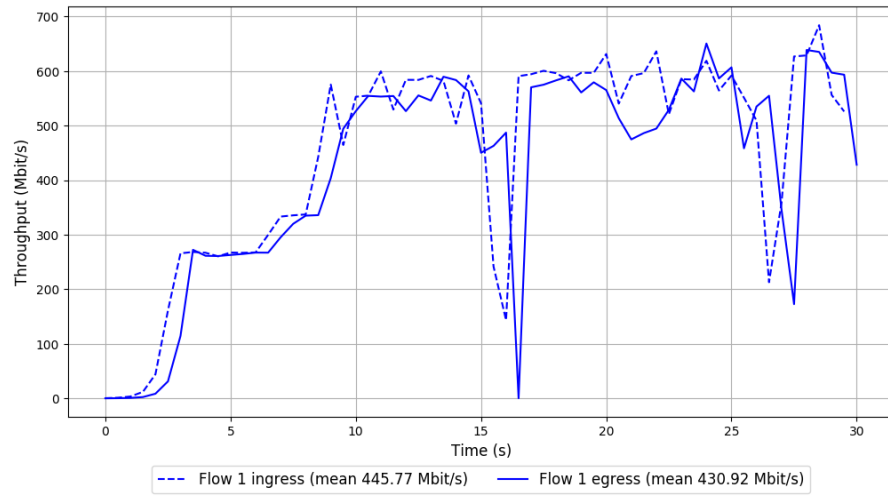


Run 1: Statistics of TCP BBR

Start at: 2019-07-18 04:14:33  
End at: 2019-07-18 04:15:03  
Local clock offset: -0.171 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-07-18 07:07:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 430.92 Mbit/s  
95th percentile per-packet one-way delay: 263.572 ms  
Loss rate: 4.19%  
-- Flow 1:  
Average throughput: 430.92 Mbit/s  
95th percentile per-packet one-way delay: 263.572 ms  
Loss rate: 4.19%

# Run 1: Report of TCP BBR — Data Link

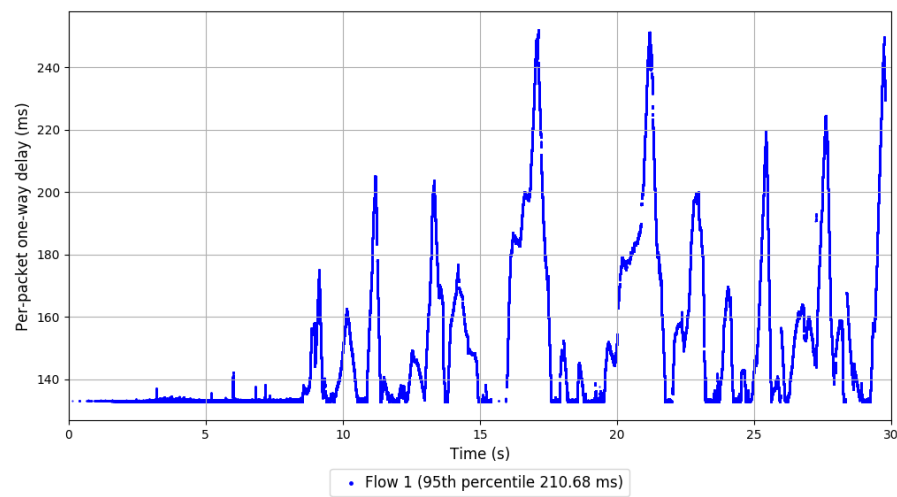
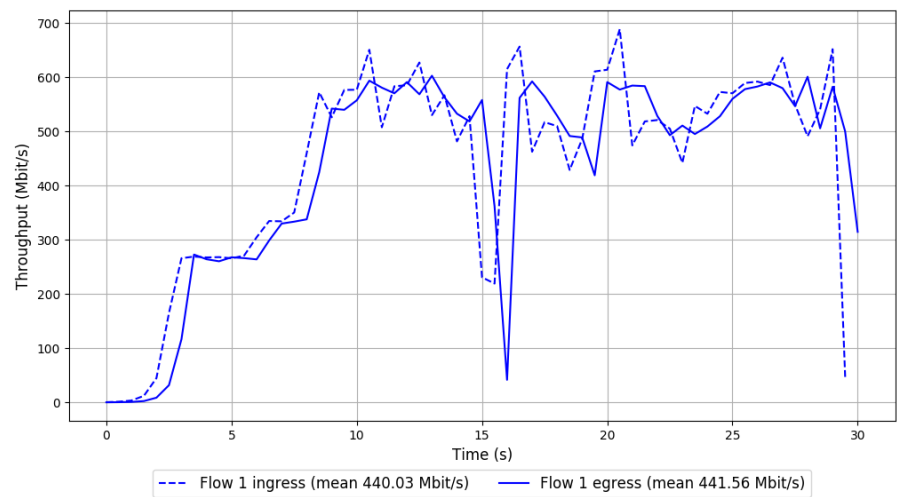


Run 2: Statistics of TCP BBR

Start at: 2019-07-18 04:51:00  
End at: 2019-07-18 04:51:30  
Local clock offset: -0.073 ms  
Remote clock offset: -0.074 ms

# Below is generated by plot.py at 2019-07-18 07:07:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 441.56 Mbit/s  
95th percentile per-packet one-way delay: 210.681 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 441.56 Mbit/s  
95th percentile per-packet one-way delay: 210.681 ms  
Loss rate: 0.55%

Run 2: Report of TCP BBR — Data Link

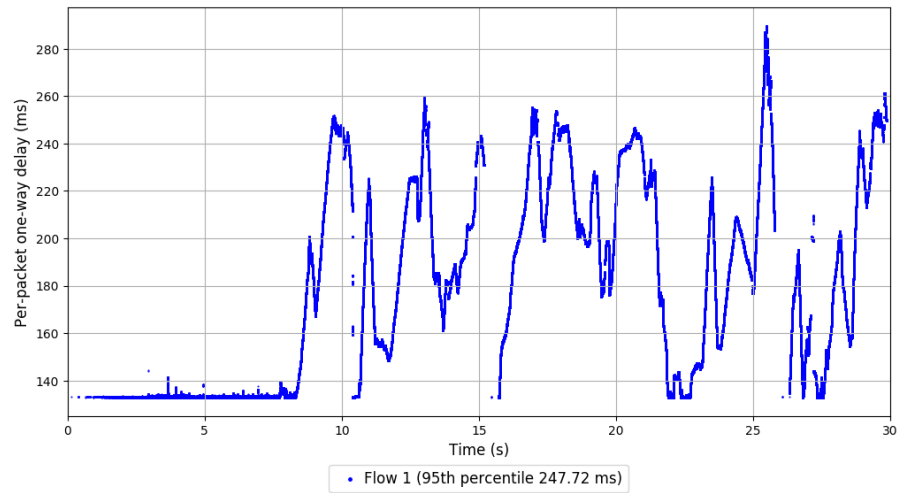
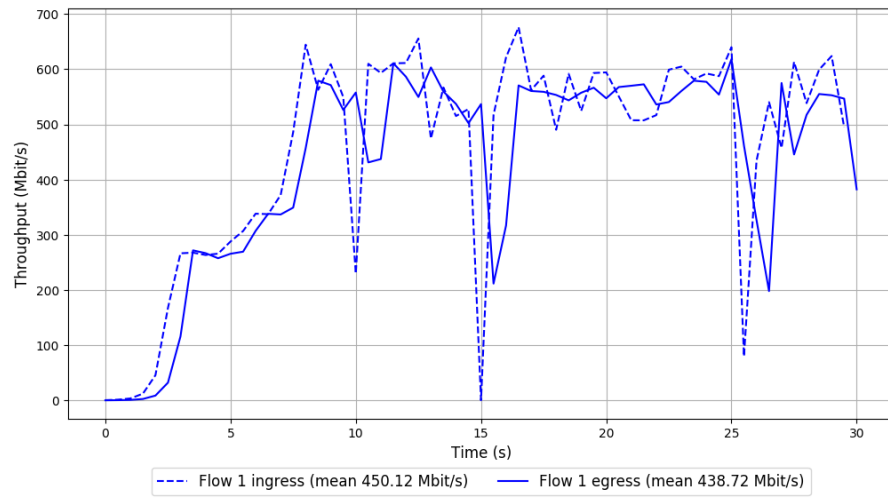


Run 3: Statistics of TCP BBR

Start at: 2019-07-18 05:27:07  
End at: 2019-07-18 05:27:37  
Local clock offset: -0.113 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-07-18 07:08:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 438.72 Mbit/s  
95th percentile per-packet one-way delay: 247.723 ms  
Loss rate: 3.40%  
-- Flow 1:  
Average throughput: 438.72 Mbit/s  
95th percentile per-packet one-way delay: 247.723 ms  
Loss rate: 3.40%

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



Run 4: Statistics of TCP BBR

Start at: 2019-07-18 06:03:18

End at: 2019-07-18 06:03:48

Local clock offset: -0.032 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-07-18 07:08:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 417.64 Mbit/s

95th percentile per-packet one-way delay: 243.161 ms

Loss rate: 2.16%

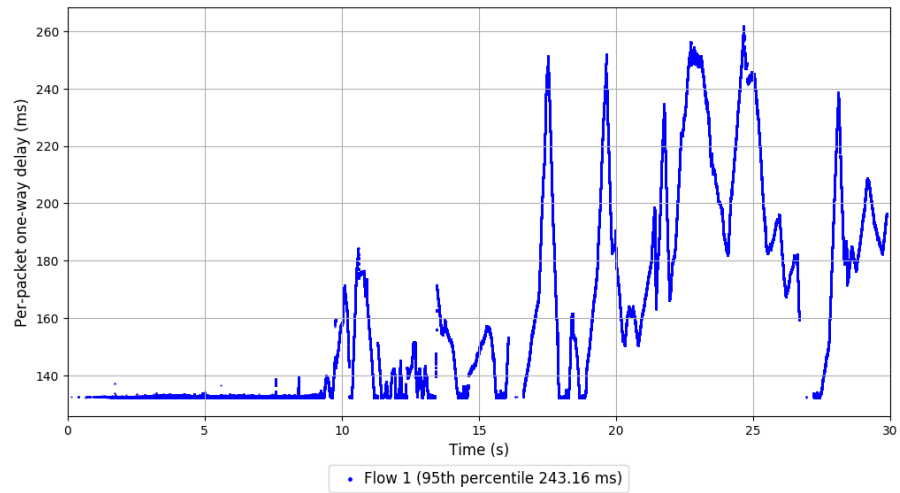
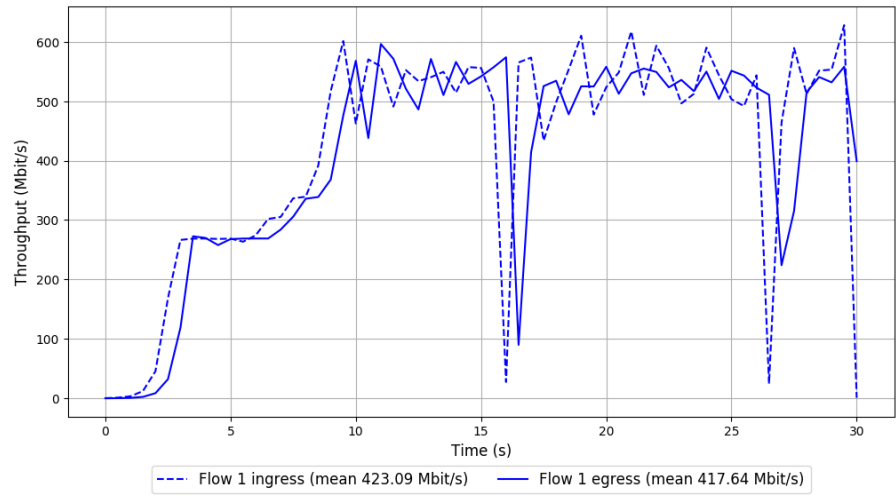
-- Flow 1:

Average throughput: 417.64 Mbit/s

95th percentile per-packet one-way delay: 243.161 ms

Loss rate: 2.16%

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





Run 5: Statistics of TCP BBR

Start at: 2019-07-18 06:39:25

End at: 2019-07-18 06:39:55

Local clock offset: 0.142 ms

Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-07-18 07:08:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 457.49 Mbit/s

95th percentile per-packet one-way delay: 239.078 ms

Loss rate: 2.30%

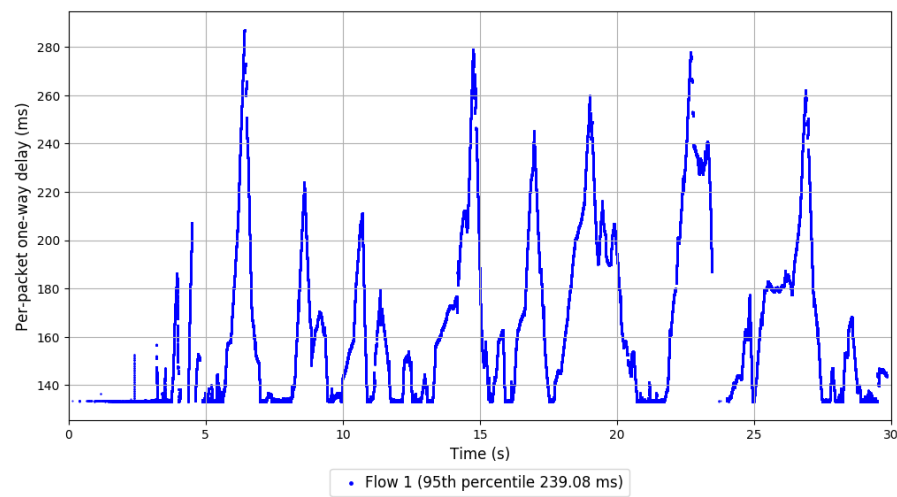
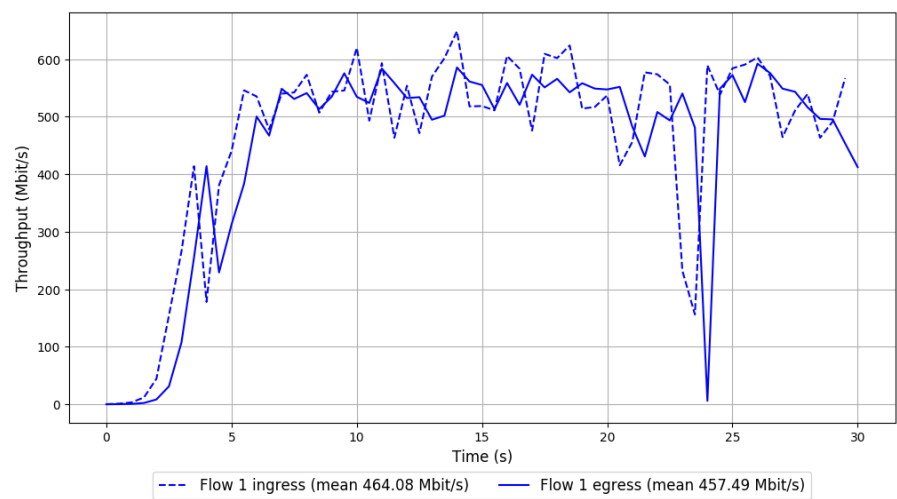
-- Flow 1:

Average throughput: 457.49 Mbit/s

95th percentile per-packet one-way delay: 239.078 ms

Loss rate: 2.30%

Run 5: Report of TCP BBR — Data Link

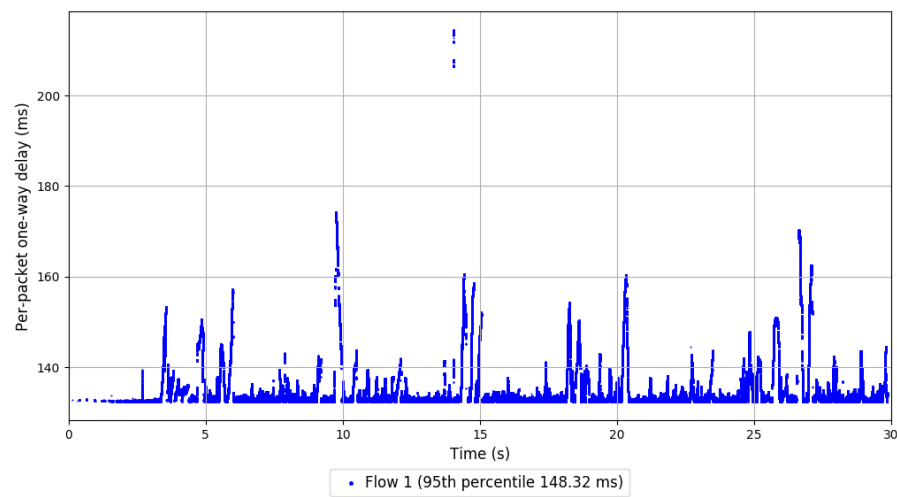
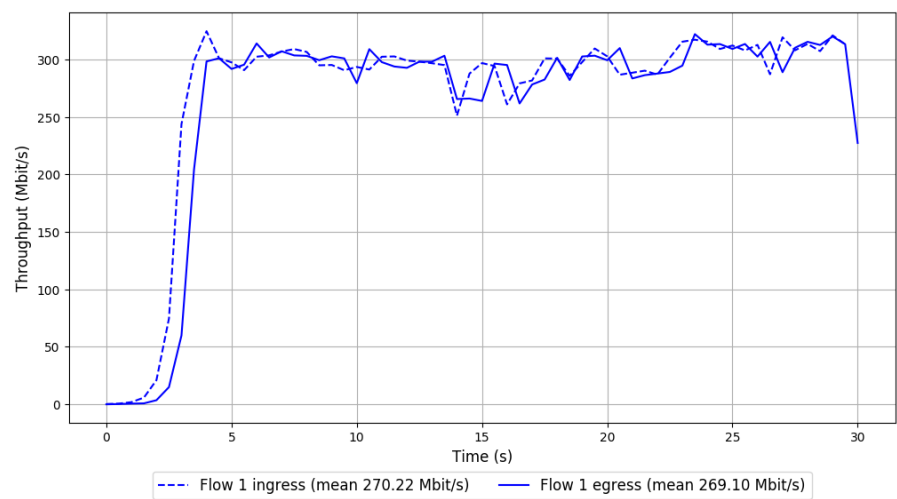


Run 1: Statistics of Copa

Start at: 2019-07-18 04:11:14  
End at: 2019-07-18 04:11:44  
Local clock offset: -0.439 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-07-18 07:08:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 269.10 Mbit/s  
95th percentile per-packet one-way delay: 148.317 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 269.10 Mbit/s  
95th percentile per-packet one-way delay: 148.317 ms  
Loss rate: 1.29%

Run 1: Report of Copa — Data Link

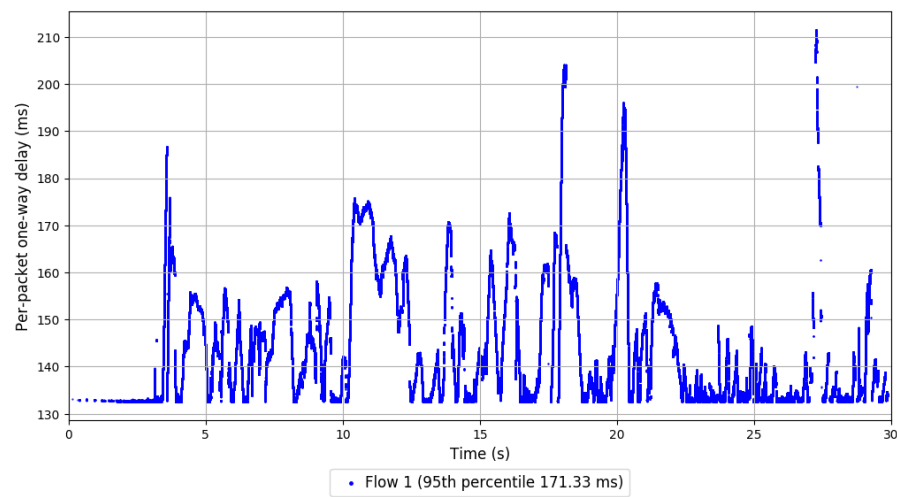
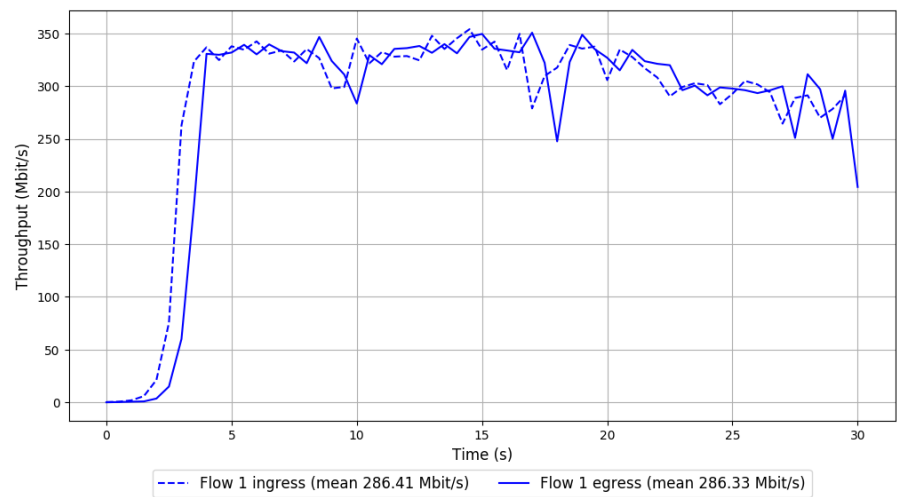


Run 2: Statistics of Copa

Start at: 2019-07-18 04:47:40  
End at: 2019-07-18 04:48:10  
Local clock offset: 0.229 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-07-18 07:09:15  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 286.33 Mbit/s  
95th percentile per-packet one-way delay: 171.331 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 286.33 Mbit/s  
95th percentile per-packet one-way delay: 171.331 ms  
Loss rate: 0.91%

Run 2: Report of Copa — Data Link

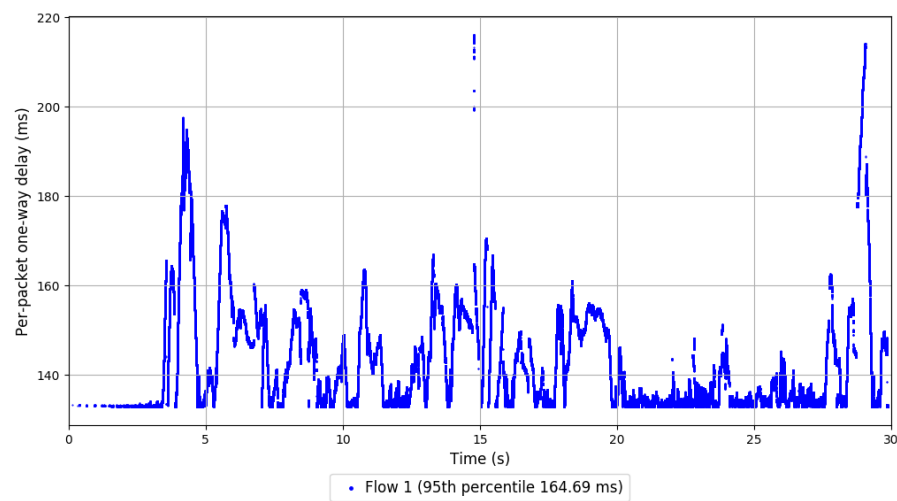
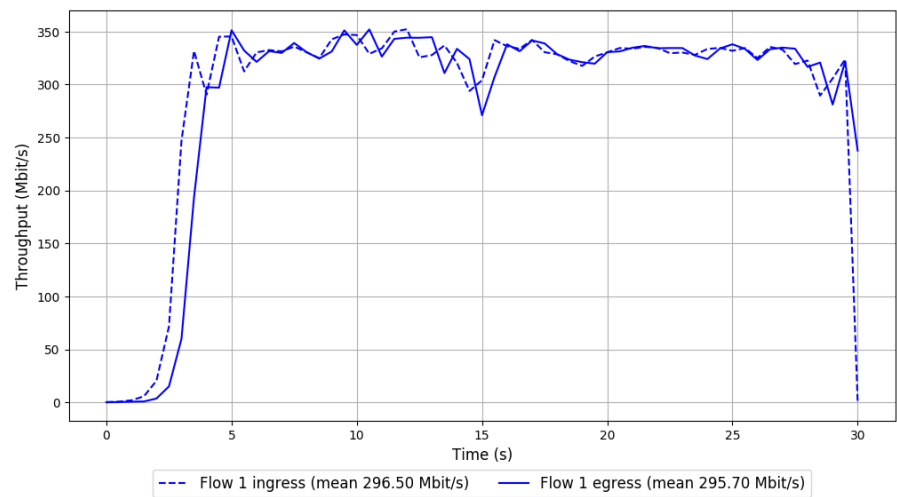


Run 3: Statistics of Copa

Start at: 2019-07-18 05:23:44  
End at: 2019-07-18 05:24:14  
Local clock offset: -0.071 ms  
Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-07-18 07:09:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 295.70 Mbit/s  
95th percentile per-packet one-way delay: 164.687 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 295.70 Mbit/s  
95th percentile per-packet one-way delay: 164.687 ms  
Loss rate: 1.15%

Run 3: Report of Copa — Data Link



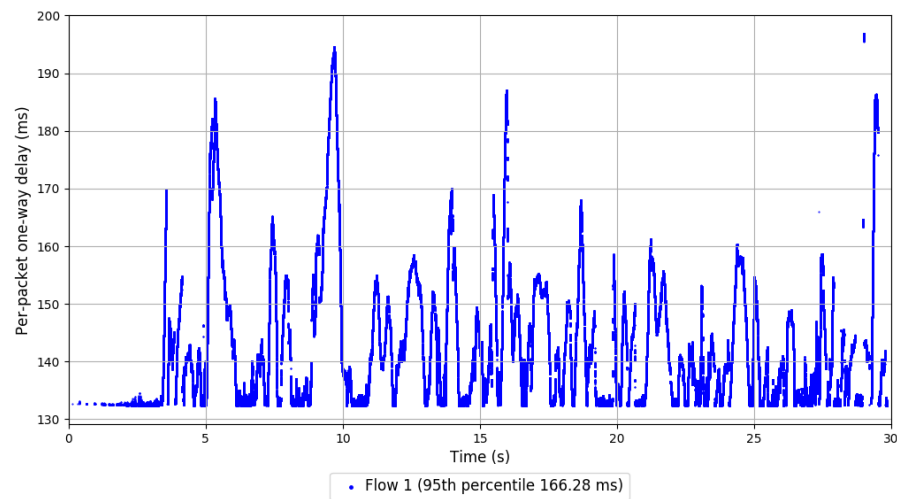
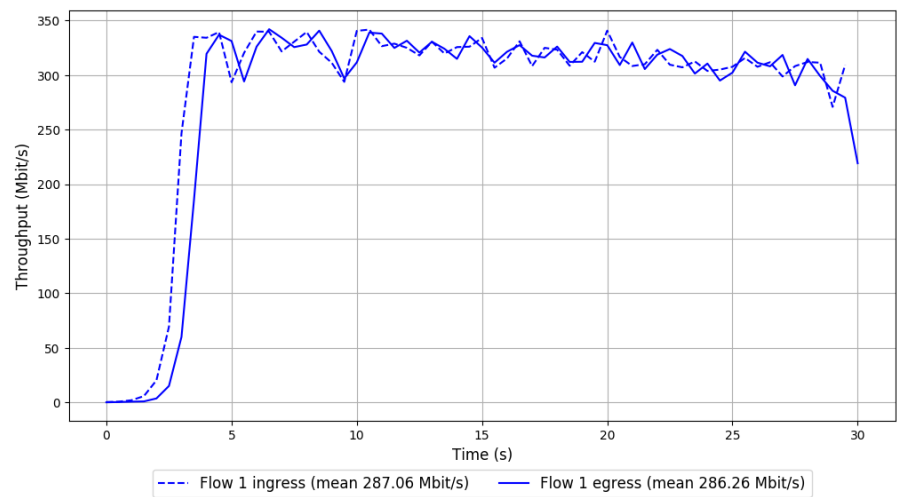


Run 4: Statistics of Copa

Start at: 2019-07-18 05:59:59  
End at: 2019-07-18 06:00:29  
Local clock offset: -0.238 ms  
Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-07-18 07:17:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 286.26 Mbit/s  
95th percentile per-packet one-way delay: 166.275 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 286.26 Mbit/s  
95th percentile per-packet one-way delay: 166.275 ms  
Loss rate: 1.16%

Run 4: Report of Copa — Data Link

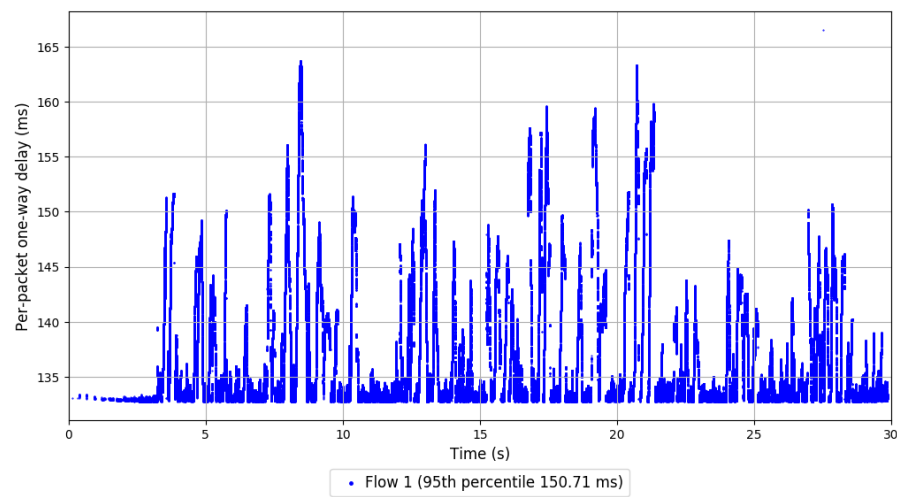
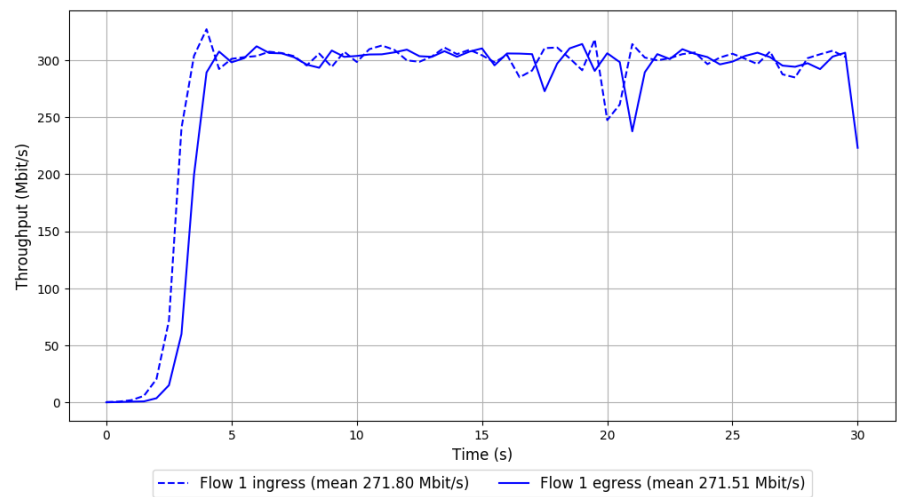


Run 5: Statistics of Copa

Start at: 2019-07-18 06:36:07  
End at: 2019-07-18 06:36:37  
Local clock offset: -0.504 ms  
Remote clock offset: -0.372 ms

# Below is generated by plot.py at 2019-07-18 07:17:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 271.51 Mbit/s  
95th percentile per-packet one-way delay: 150.710 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 271.51 Mbit/s  
95th percentile per-packet one-way delay: 150.710 ms  
Loss rate: 0.99%

Run 5: Report of Copa — Data Link

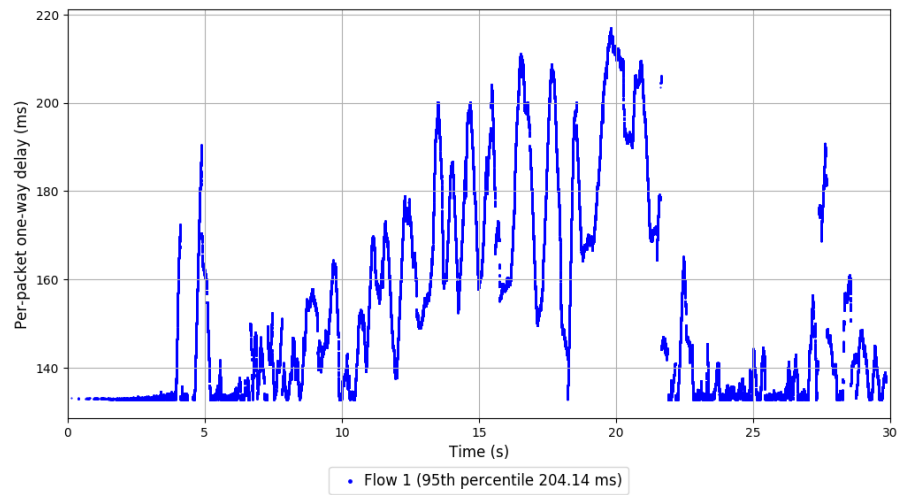
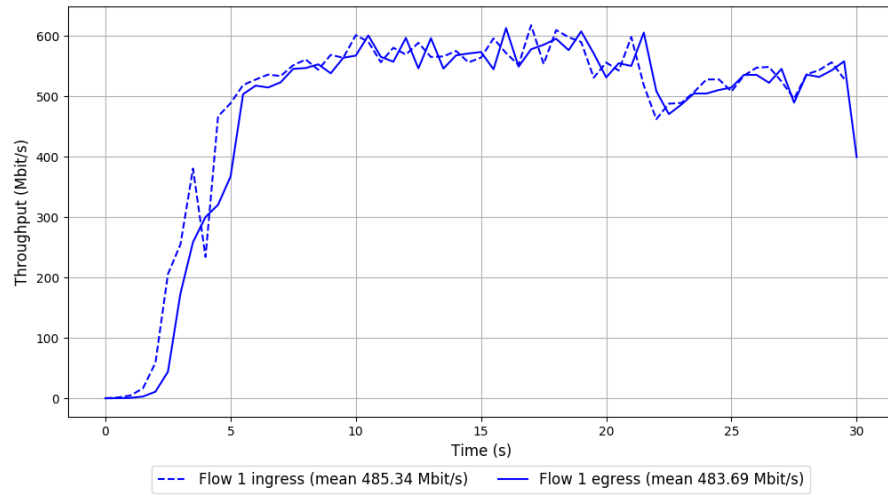


Run 1: Statistics of TCP Cubic

Start at: 2019-07-18 04:20:36  
End at: 2019-07-18 04:21:06  
Local clock offset: -0.051 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-07-18 07:17:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 483.69 Mbit/s  
95th percentile per-packet one-way delay: 204.141 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 483.69 Mbit/s  
95th percentile per-packet one-way delay: 204.141 ms  
Loss rate: 1.23%

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

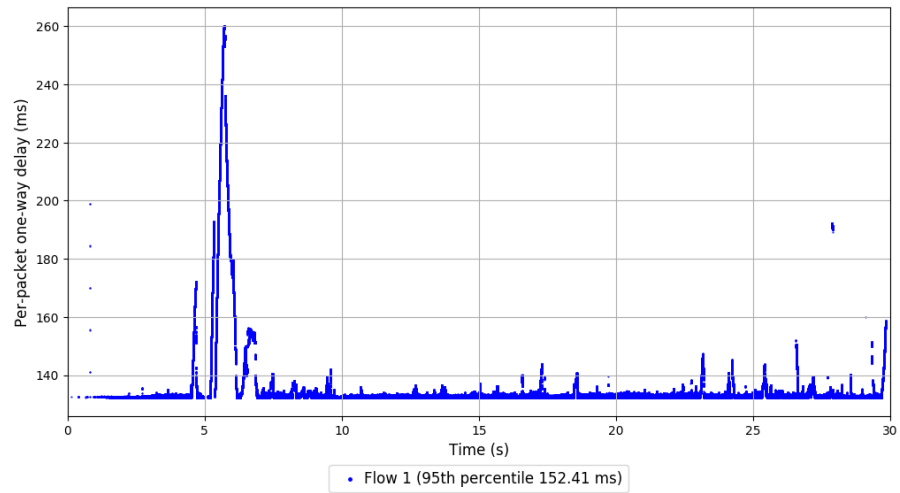
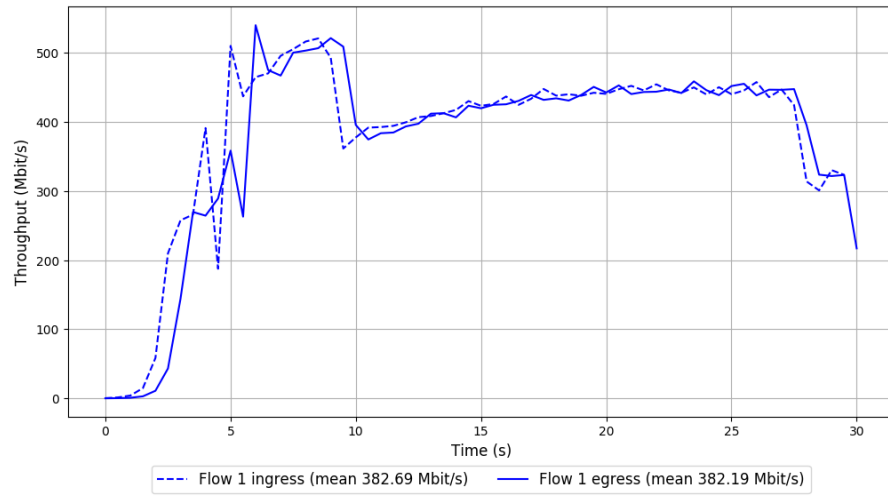


Run 2: Statistics of TCP Cubic

Start at: 2019-07-18 04:57:00  
End at: 2019-07-18 04:57:30  
Local clock offset: -0.101 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-07-18 07:17:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 382.19 Mbit/s  
95th percentile per-packet one-way delay: 152.412 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 382.19 Mbit/s  
95th percentile per-packet one-way delay: 152.412 ms  
Loss rate: 1.01%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-07-18 05:32:58

End at: 2019-07-18 05:33:28

Local clock offset: -0.138 ms

Remote clock offset: 0.249 ms

# Below is generated by plot.py at 2019-07-18 07:17:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 468.39 Mbit/s

95th percentile per-packet one-way delay: 159.986 ms

Loss rate: 1.04%

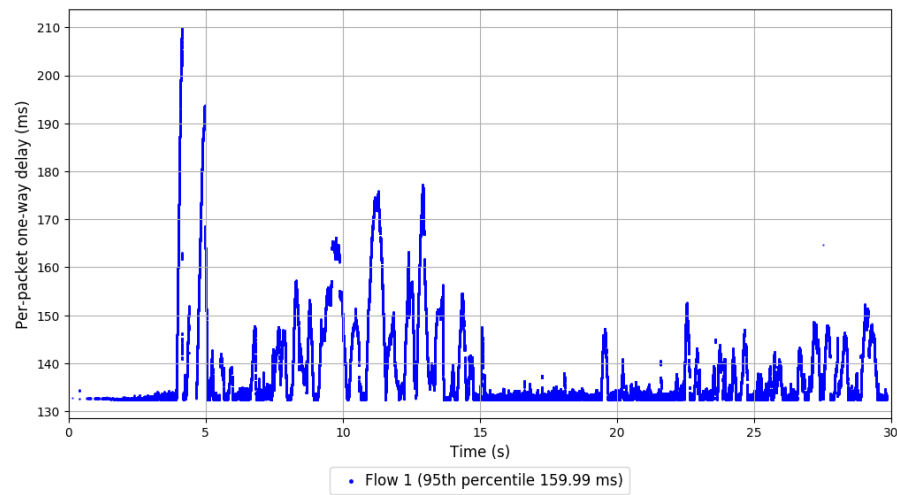
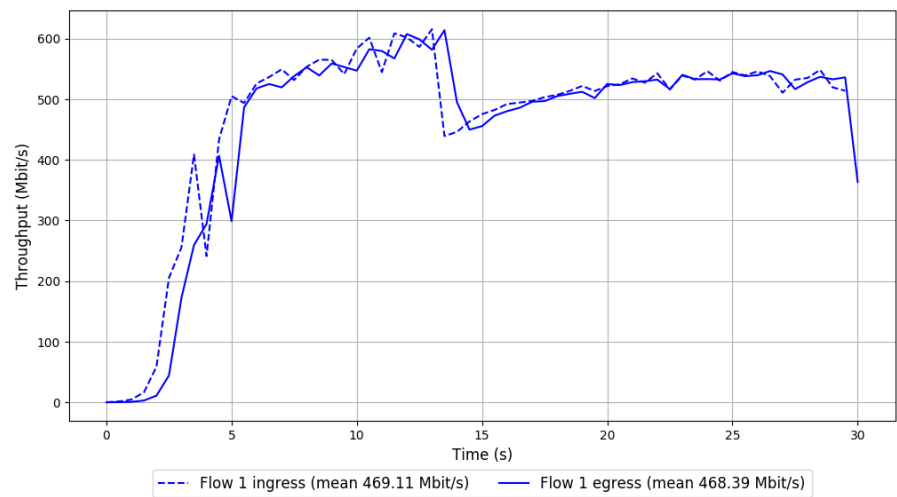
-- Flow 1:

Average throughput: 468.39 Mbit/s

95th percentile per-packet one-way delay: 159.986 ms

Loss rate: 1.04%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-07-18 06:09:14

End at: 2019-07-18 06:09:44

Local clock offset: 0.446 ms

Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-07-18 07:17:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 442.78 Mbit/s

95th percentile per-packet one-way delay: 176.599 ms

Loss rate: 1.44%

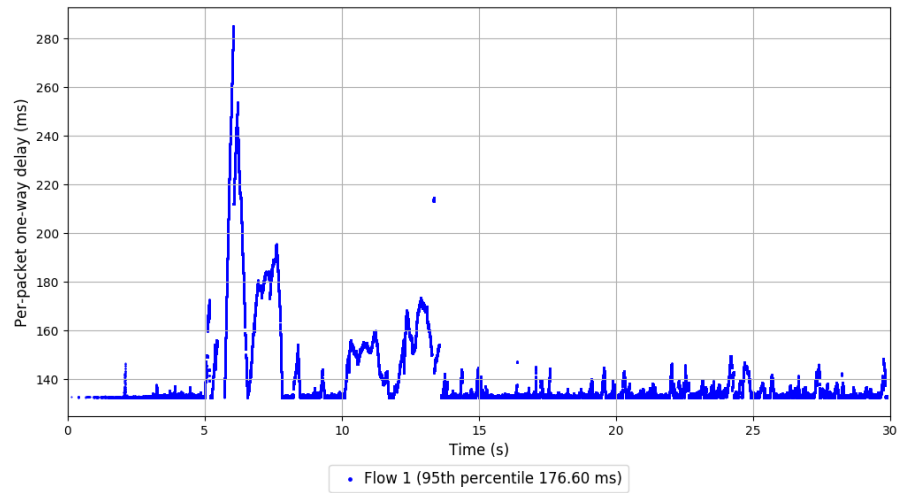
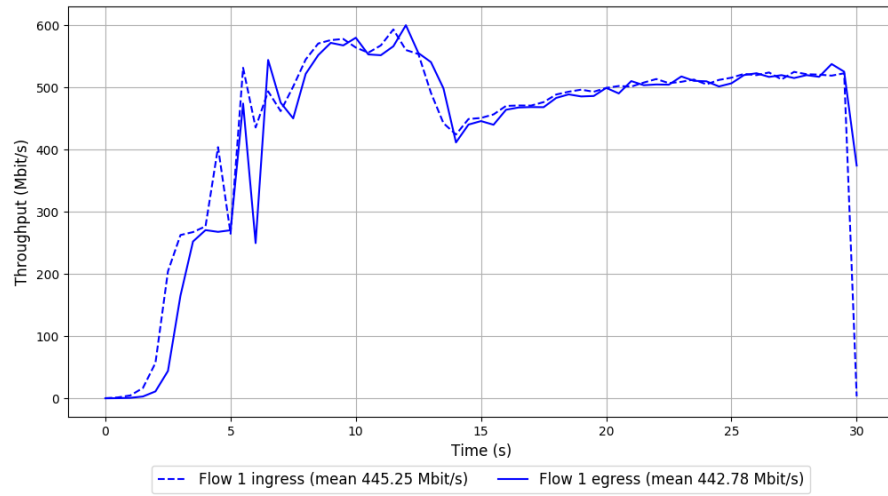
-- Flow 1:

Average throughput: 442.78 Mbit/s

95th percentile per-packet one-way delay: 176.599 ms

Loss rate: 1.44%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-07-18 06:45:22

End at: 2019-07-18 06:45:52

Local clock offset: 0.186 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-07-18 07:17:34

# Datalink statistics

-- Total of 1 flow:

Average throughput: 377.63 Mbit/s

95th percentile per-packet one-way delay: 141.595 ms

Loss rate: 1.21%

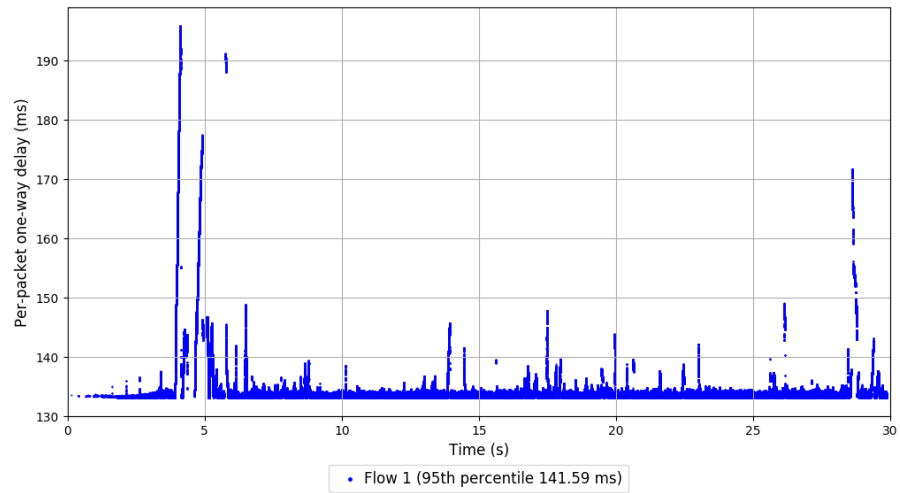
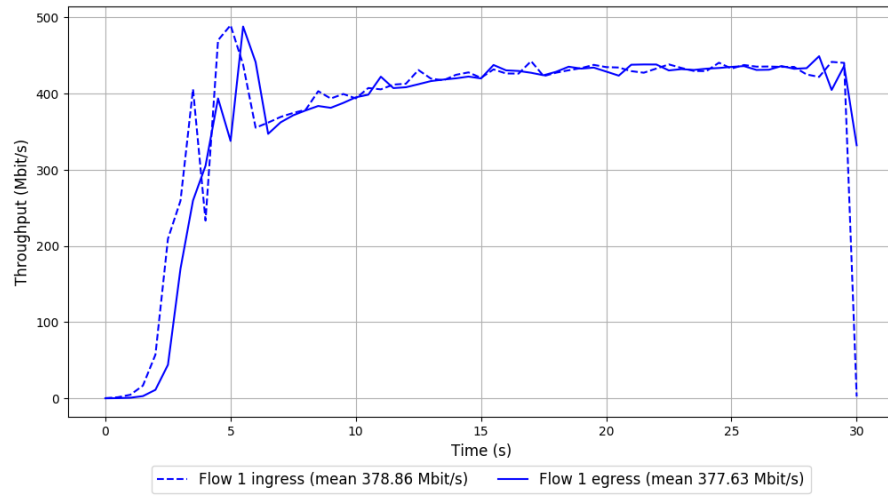
-- Flow 1:

Average throughput: 377.63 Mbit/s

95th percentile per-packet one-way delay: 141.595 ms

Loss rate: 1.21%

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

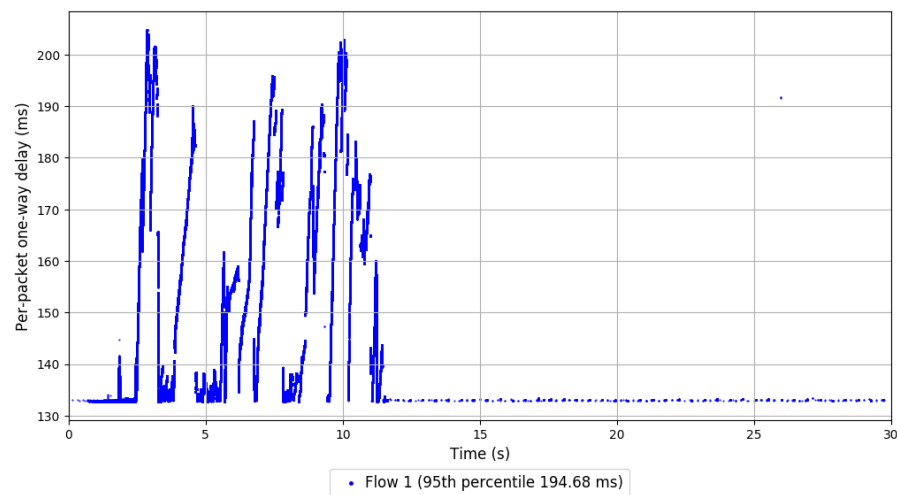
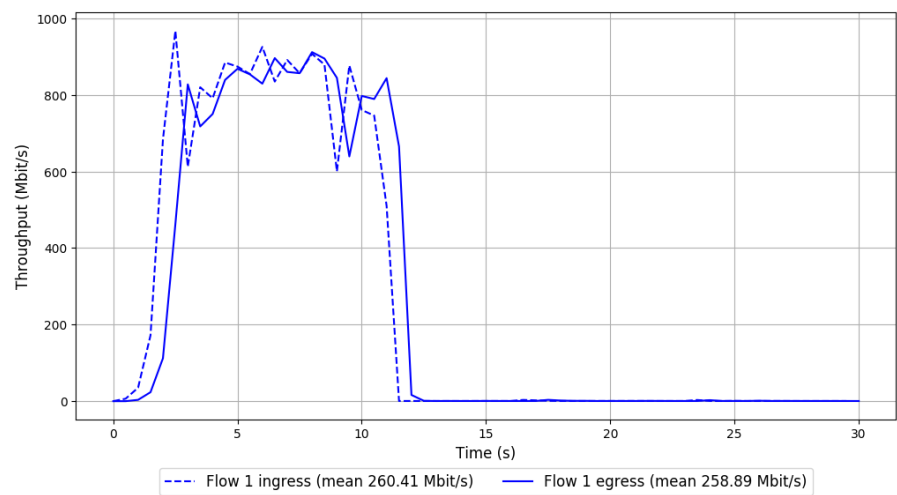


Run 1: Statistics of FillP

Start at: 2019-07-18 03:52:02  
End at: 2019-07-18 03:52:32  
Local clock offset: -0.07 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-07-18 07:17:34  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 258.89 Mbit/s  
95th percentile per-packet one-way delay: 194.683 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 258.89 Mbit/s  
95th percentile per-packet one-way delay: 194.683 ms  
Loss rate: 1.21%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-07-18 04:28:03

End at: 2019-07-18 04:28:33

Local clock offset: -0.072 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-07-18 07:31:05

# Datalink statistics

-- Total of 1 flow:

Average throughput: 642.67 Mbit/s

95th percentile per-packet one-way delay: 197.409 ms

Loss rate: 3.49%

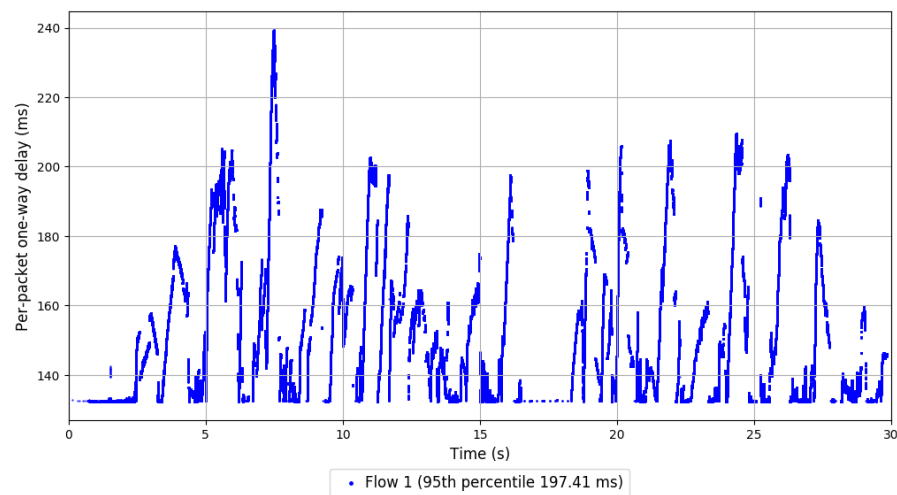
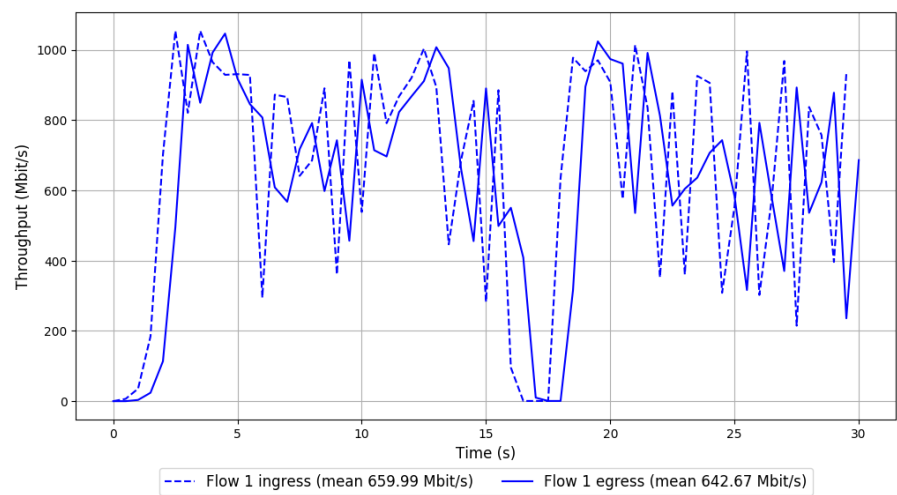
-- Flow 1:

Average throughput: 642.67 Mbit/s

95th percentile per-packet one-way delay: 197.409 ms

Loss rate: 3.49%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-07-18 05:04:28

End at: 2019-07-18 05:04:58

Local clock offset: -0.315 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-07-18 07:32:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 686.44 Mbit/s

95th percentile per-packet one-way delay: 199.436 ms

Loss rate: 3.69%

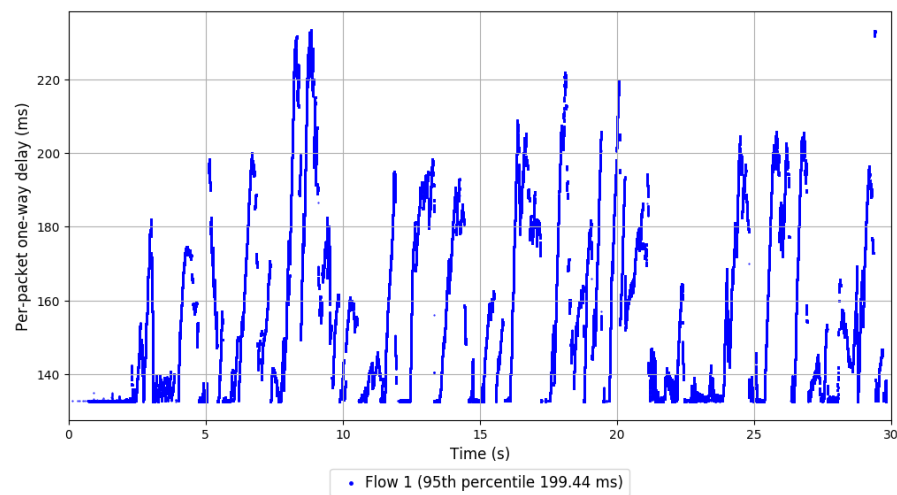
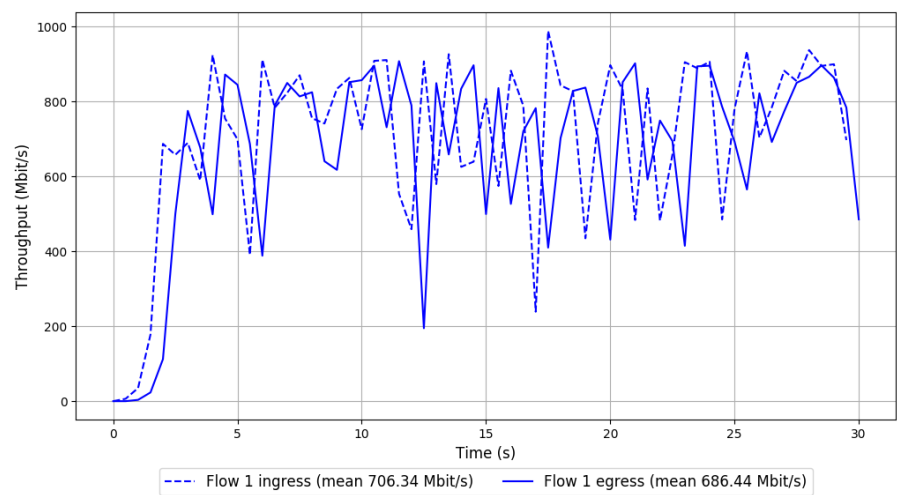
-- Flow 1:

Average throughput: 686.44 Mbit/s

95th percentile per-packet one-way delay: 199.436 ms

Loss rate: 3.69%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-07-18 05:40:24

End at: 2019-07-18 05:40:54

Local clock offset: -0.098 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-07-18 07:33:33

# Datalink statistics

-- Total of 1 flow:

Average throughput: 738.01 Mbit/s

95th percentile per-packet one-way delay: 206.765 ms

Loss rate: 5.64%

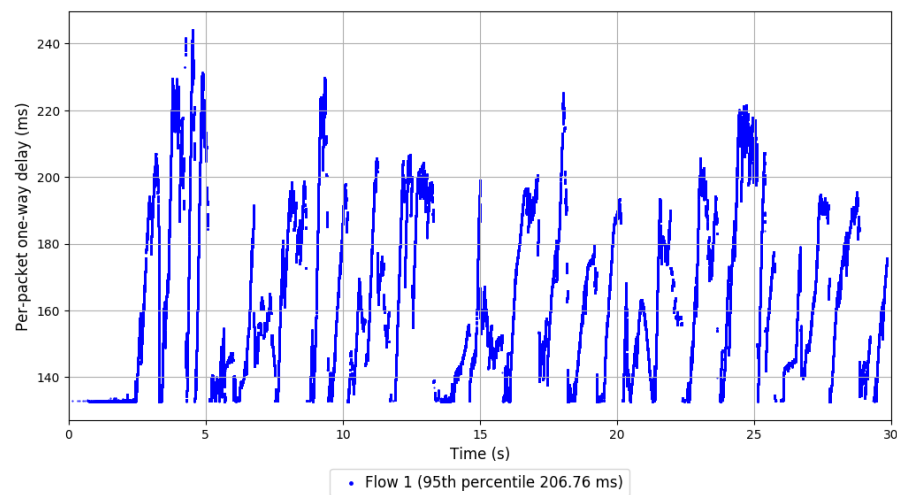
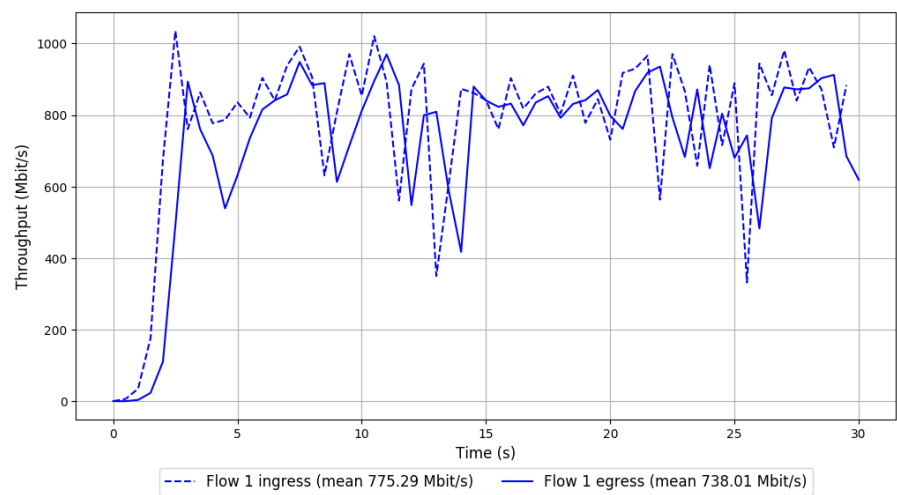
-- Flow 1:

Average throughput: 738.01 Mbit/s

95th percentile per-packet one-way delay: 206.765 ms

Loss rate: 5.64%

Run 4: Report of FillP — Data Link

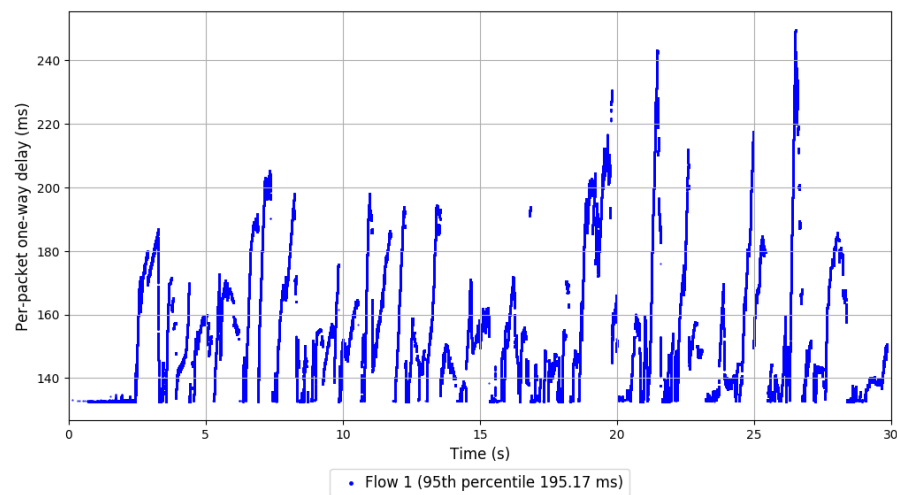
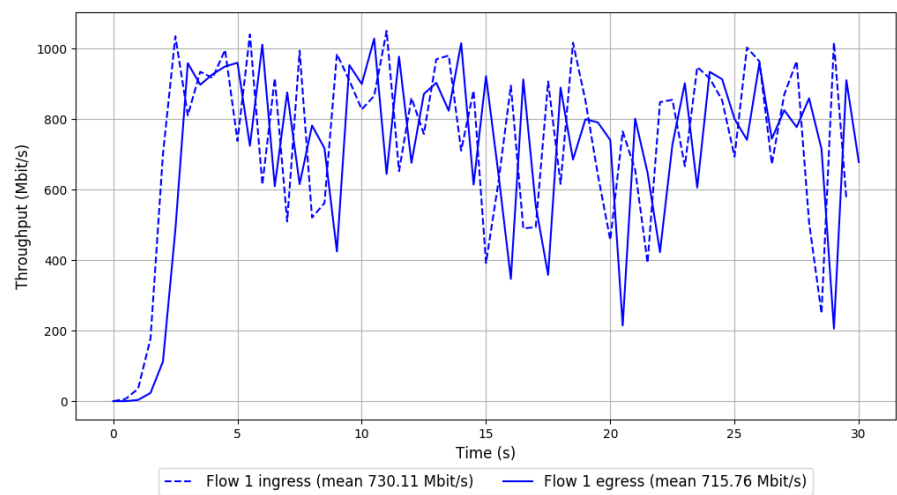


Run 5: Statistics of FillP

Start at: 2019-07-18 06:16:41  
End at: 2019-07-18 06:17:11  
Local clock offset: -0.226 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-07-18 07:33:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 715.76 Mbit/s  
95th percentile per-packet one-way delay: 195.172 ms  
Loss rate: 2.84%  
-- Flow 1:  
Average throughput: 715.76 Mbit/s  
95th percentile per-packet one-way delay: 195.172 ms  
Loss rate: 2.84%

Run 5: Report of FillP — Data Link



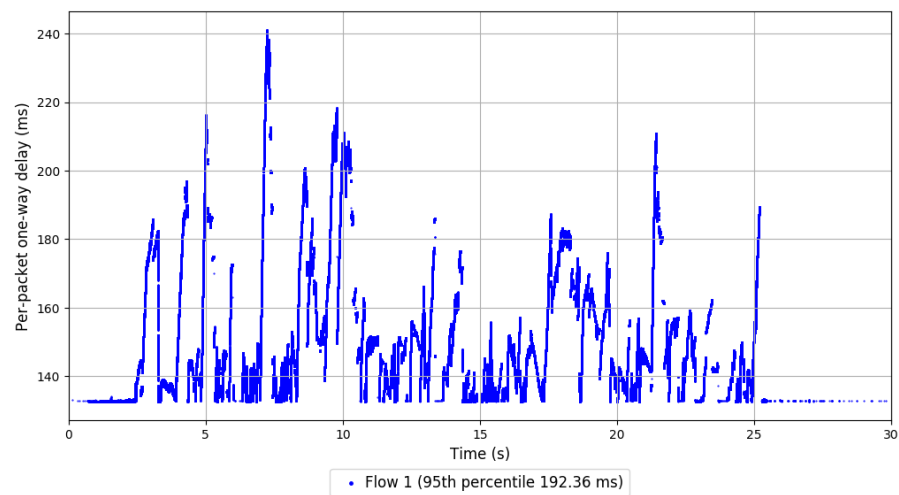
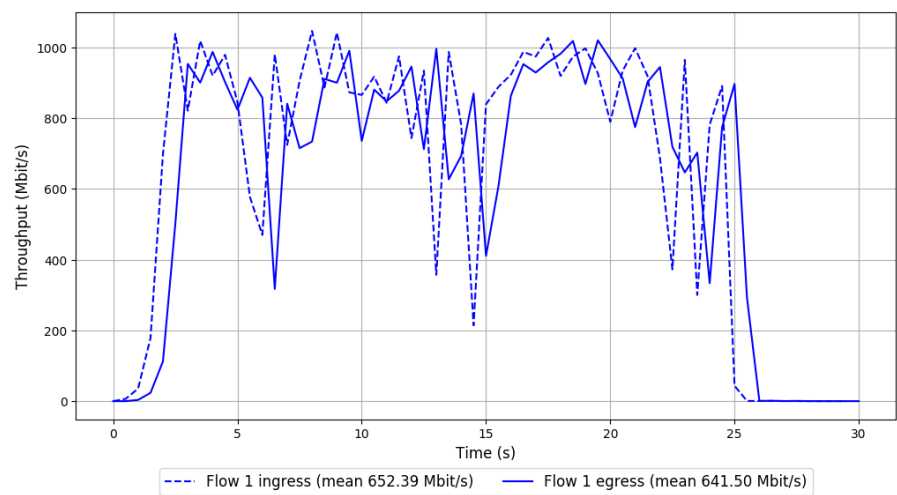


Run 1: Statistics of FillP-Sheep

Start at: 2019-07-18 04:00:42  
End at: 2019-07-18 04:01:12  
Local clock offset: -0.042 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-07-18 07:33:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 641.50 Mbit/s  
95th percentile per-packet one-way delay: 192.357 ms  
Loss rate: 1.87%  
-- Flow 1:  
Average throughput: 641.50 Mbit/s  
95th percentile per-packet one-way delay: 192.357 ms  
Loss rate: 1.87%

Run 1: Report of FillP-Sheep — Data Link

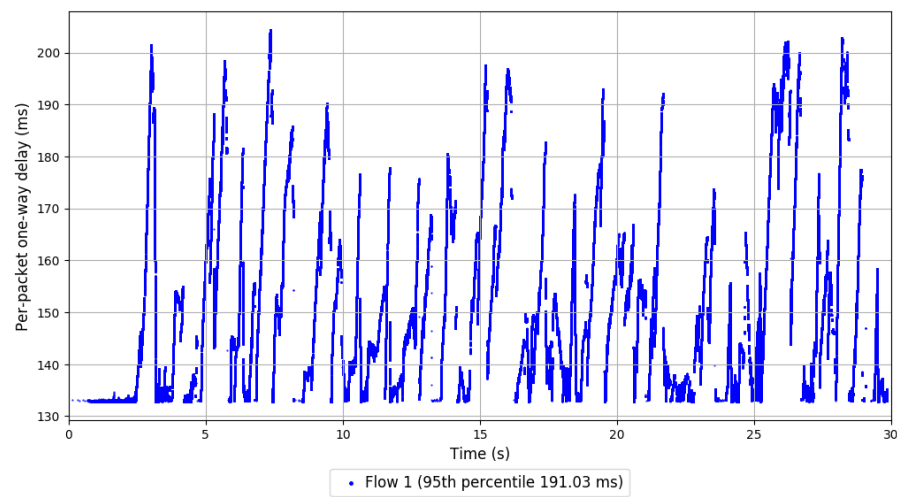
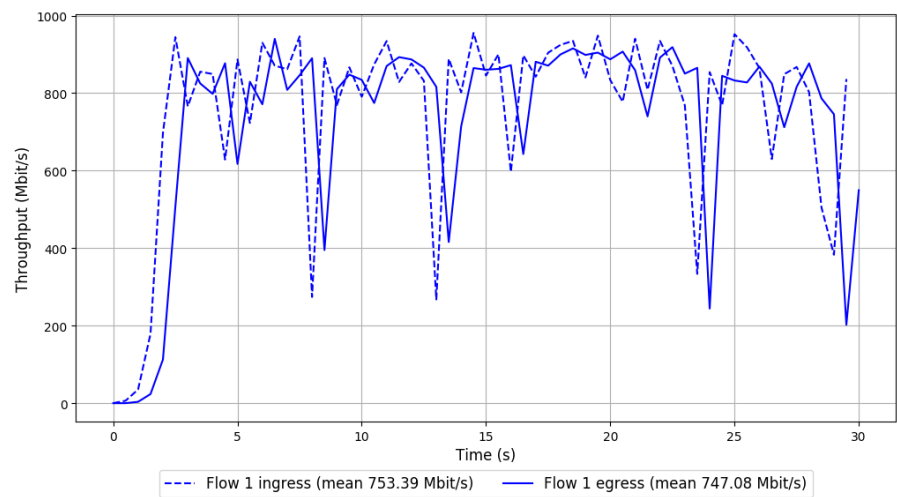


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-18 04:37:05  
End at: 2019-07-18 04:37:35  
Local clock offset: -0.493 ms  
Remote clock offset: -0.422 ms

# Below is generated by plot.py at 2019-07-18 07:33:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 747.08 Mbit/s  
95th percentile per-packet one-way delay: 191.033 ms  
Loss rate: 1.72%  
-- Flow 1:  
Average throughput: 747.08 Mbit/s  
95th percentile per-packet one-way delay: 191.033 ms  
Loss rate: 1.72%

Run 2: Report of FillP-Sheep — Data Link

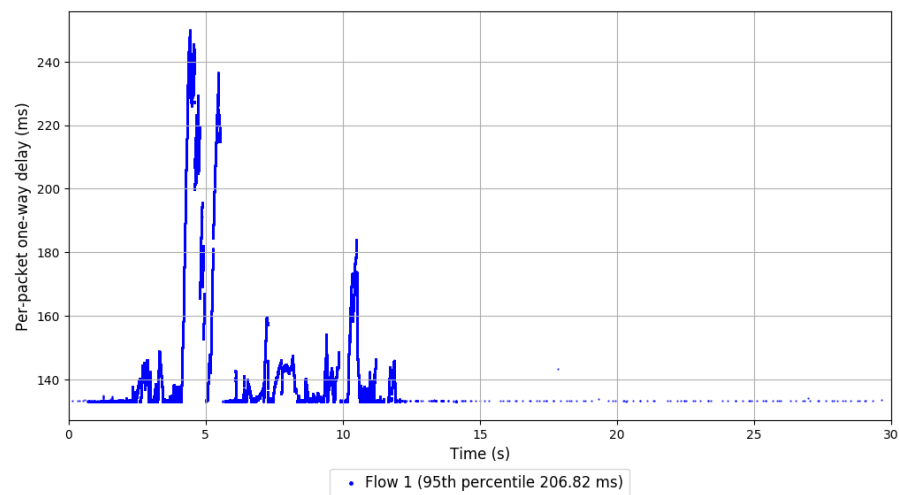
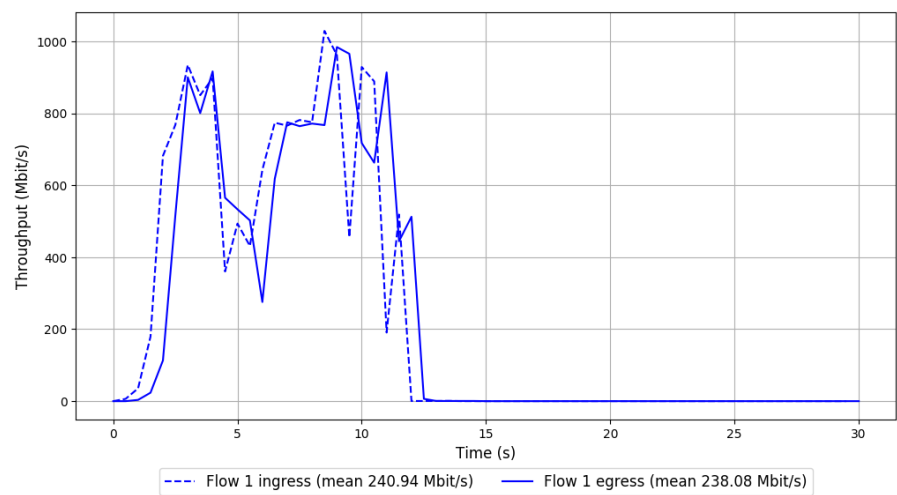


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-18 05:13:28  
End at: 2019-07-18 05:13:58  
Local clock offset: -0.115 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-07-18 07:33:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 238.08 Mbit/s  
95th percentile per-packet one-way delay: 206.819 ms  
Loss rate: 2.07%  
-- Flow 1:  
Average throughput: 238.08 Mbit/s  
95th percentile per-packet one-way delay: 206.819 ms  
Loss rate: 2.07%

Run 3: Report of FillP-Sheep — Data Link

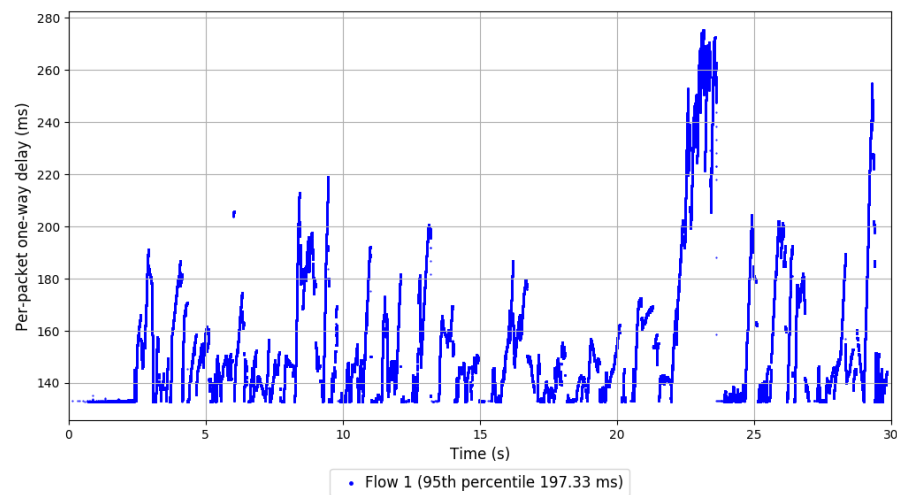
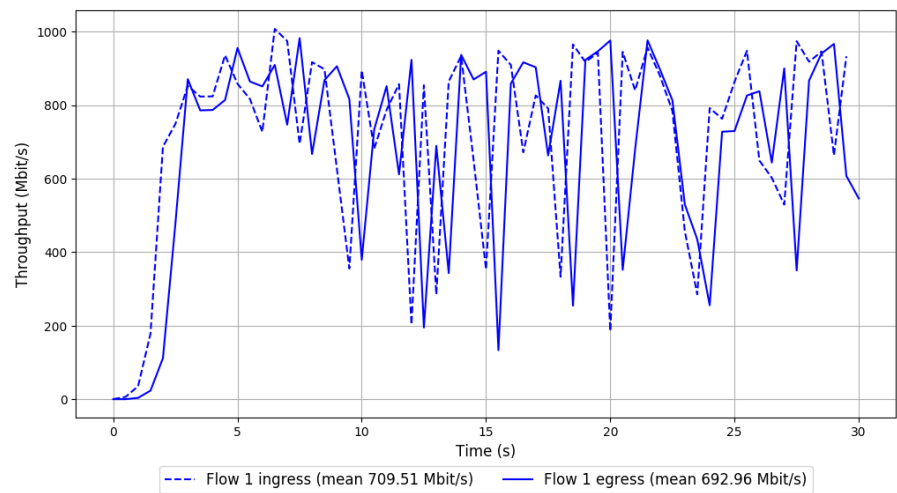


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-18 05:49:22  
End at: 2019-07-18 05:49:52  
Local clock offset: -0.098 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-07-18 07:33:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 692.96 Mbit/s  
95th percentile per-packet one-way delay: 197.334 ms  
Loss rate: 3.20%  
-- Flow 1:  
Average throughput: 692.96 Mbit/s  
95th percentile per-packet one-way delay: 197.334 ms  
Loss rate: 3.20%

Run 4: Report of FillP-Sheep — Data Link



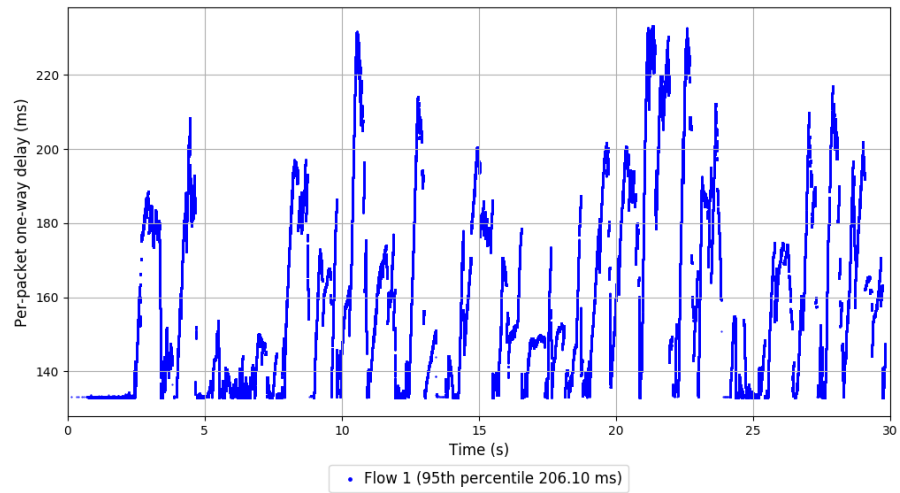
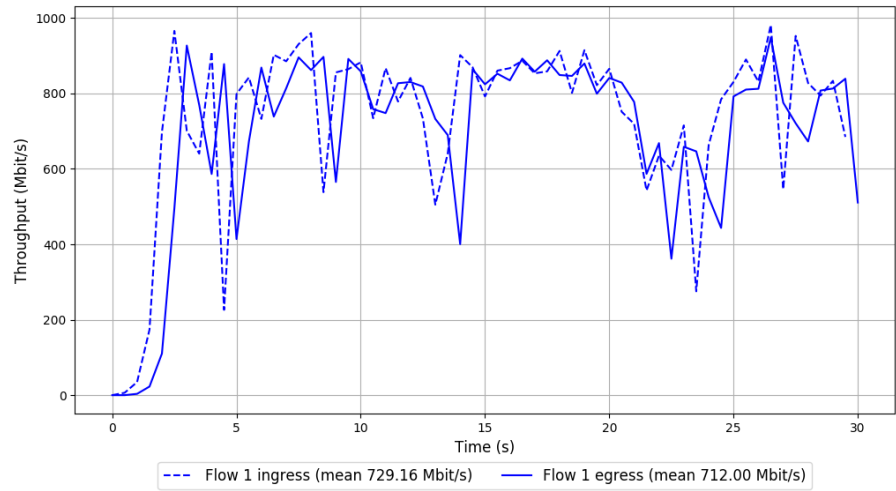


Run 5: Statistics of FillP-Sheep

Start at: 2019-07-18 06:25:40  
End at: 2019-07-18 06:26:10  
Local clock offset: -0.071 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-07-18 07:39:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 712.00 Mbit/s  
95th percentile per-packet one-way delay: 206.103 ms  
Loss rate: 3.23%  
-- Flow 1:  
Average throughput: 712.00 Mbit/s  
95th percentile per-packet one-way delay: 206.103 ms  
Loss rate: 3.23%

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

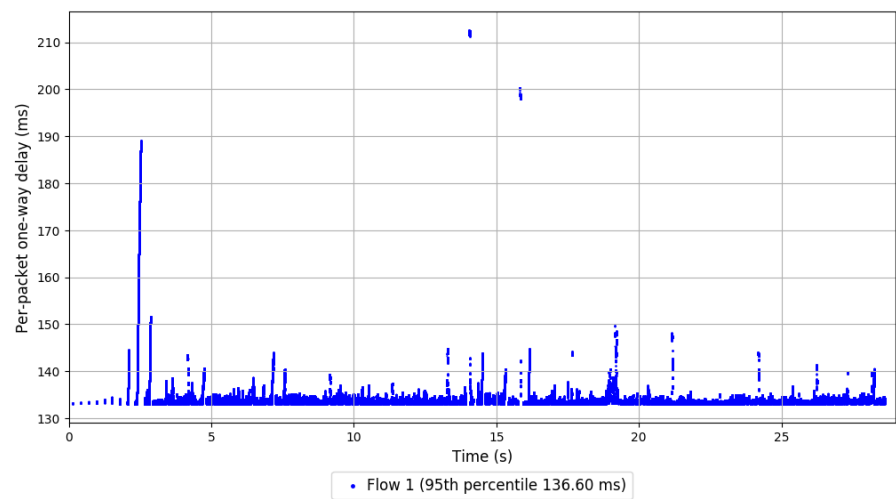
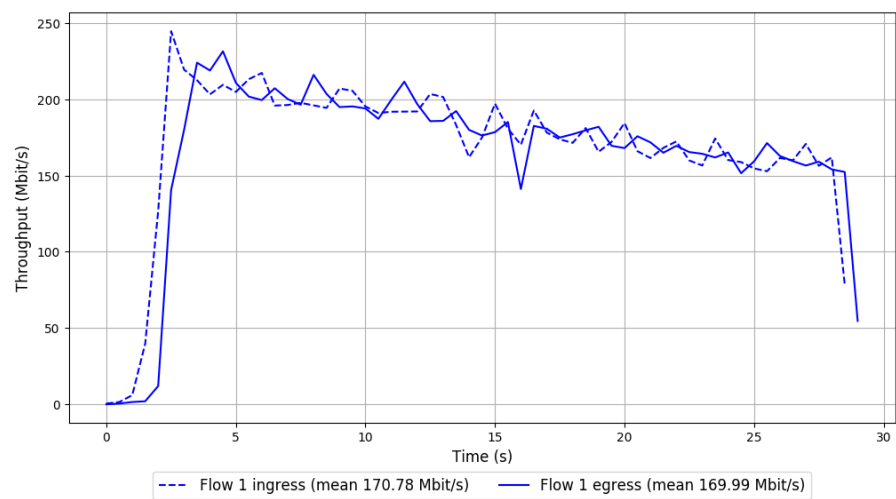


Run 1: Statistics of Indigo

Start at: 2019-07-18 03:54:41  
End at: 2019-07-18 03:55:11  
Local clock offset: 0.139 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-07-18 07:39:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 169.99 Mbit/s  
95th percentile per-packet one-way delay: 136.601 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 169.99 Mbit/s  
95th percentile per-packet one-way delay: 136.601 ms  
Loss rate: 1.39%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-07-18 04:31:01

End at: 2019-07-18 04:31:31

Local clock offset: -0.086 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-07-18 07:39:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 180.21 Mbit/s

95th percentile per-packet one-way delay: 135.817 ms

Loss rate: 1.17%

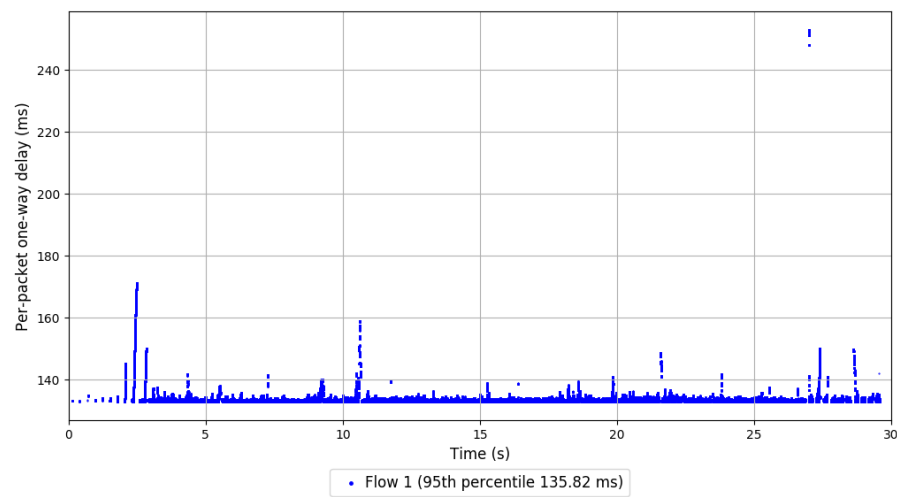
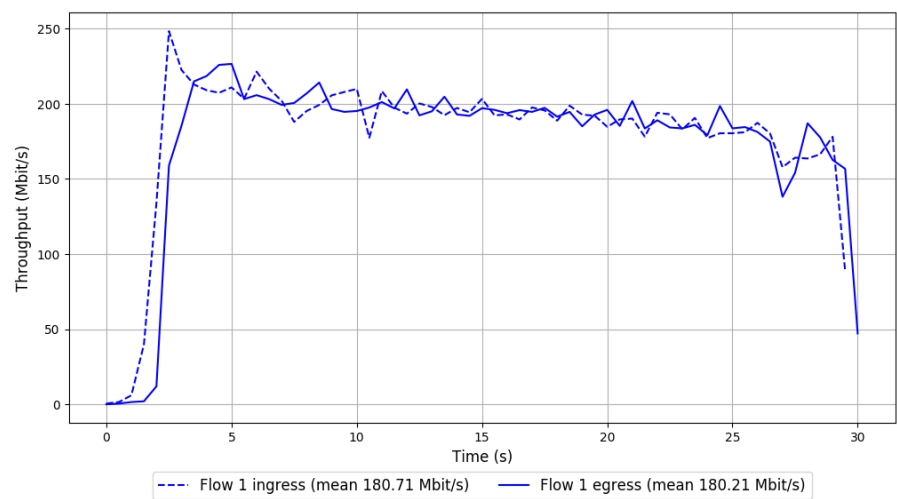
-- Flow 1:

Average throughput: 180.21 Mbit/s

95th percentile per-packet one-way delay: 135.817 ms

Loss rate: 1.17%

Run 2: Report of Indigo — Data Link

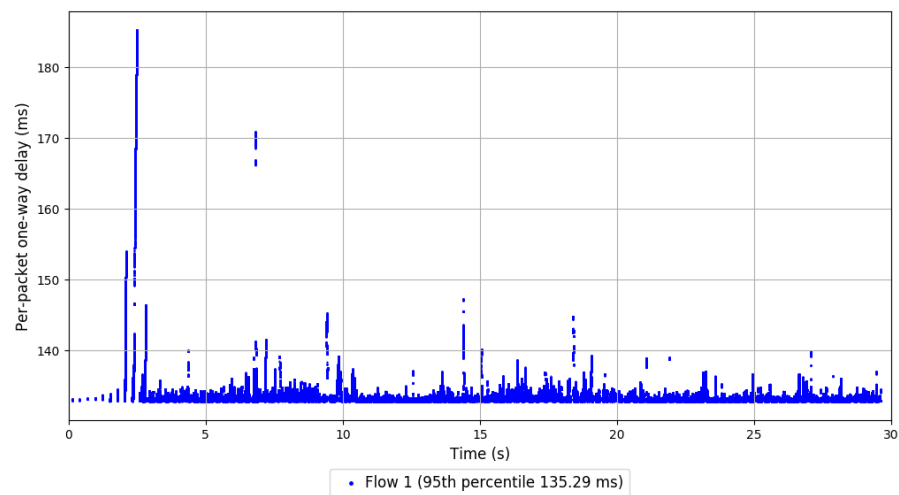
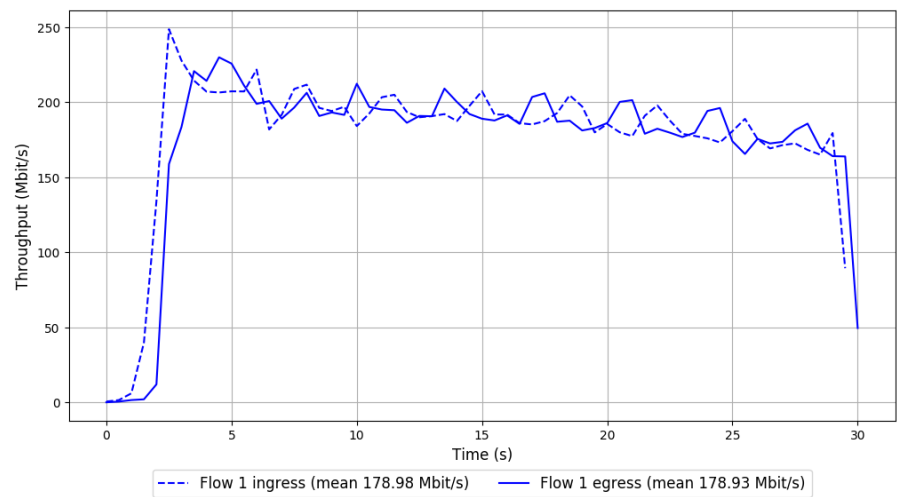


Run 3: Statistics of Indigo

Start at: 2019-07-18 05:07:27  
End at: 2019-07-18 05:07:57  
Local clock offset: -0.086 ms  
Remote clock offset: -0.112 ms

# Below is generated by plot.py at 2019-07-18 07:39:26  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 178.93 Mbit/s  
95th percentile per-packet one-way delay: 135.286 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 178.93 Mbit/s  
95th percentile per-packet one-way delay: 135.286 ms  
Loss rate: 0.96%

Run 3: Report of Indigo — Data Link



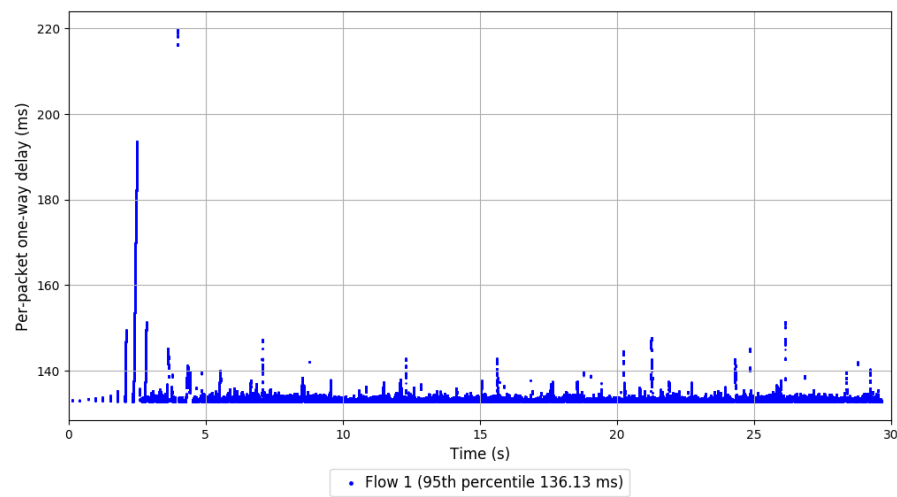
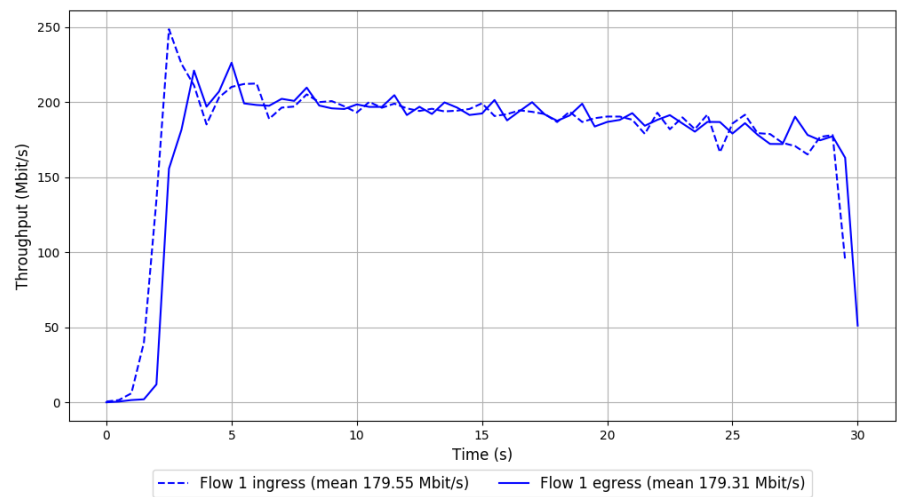


Run 4: Statistics of Indigo

Start at: 2019-07-18 05:43:24  
End at: 2019-07-18 05:43:54  
Local clock offset: -0.304 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-07-18 07:39:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 179.31 Mbit/s  
95th percentile per-packet one-way delay: 136.128 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 179.31 Mbit/s  
95th percentile per-packet one-way delay: 136.128 ms  
Loss rate: 1.04%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-07-18 06:19:40

End at: 2019-07-18 06:20:10

Local clock offset: -0.286 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-07-18 07:39:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 135.544 ms

Loss rate: 1.16%

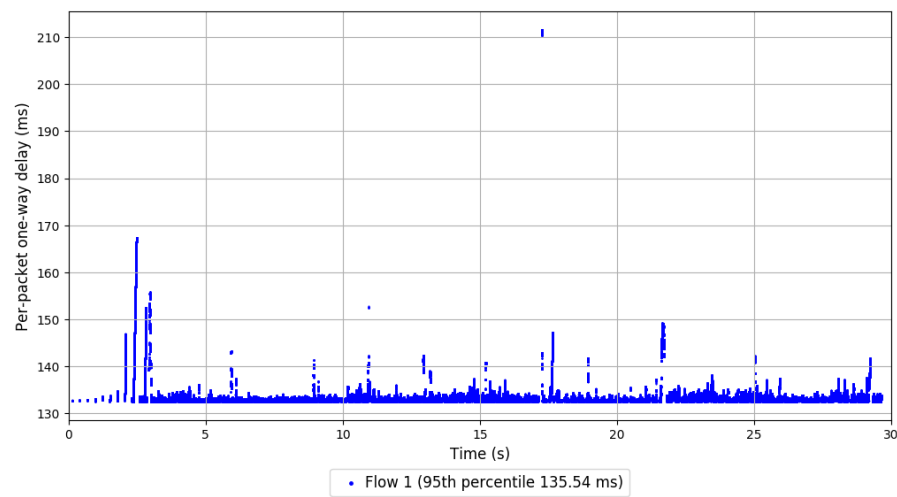
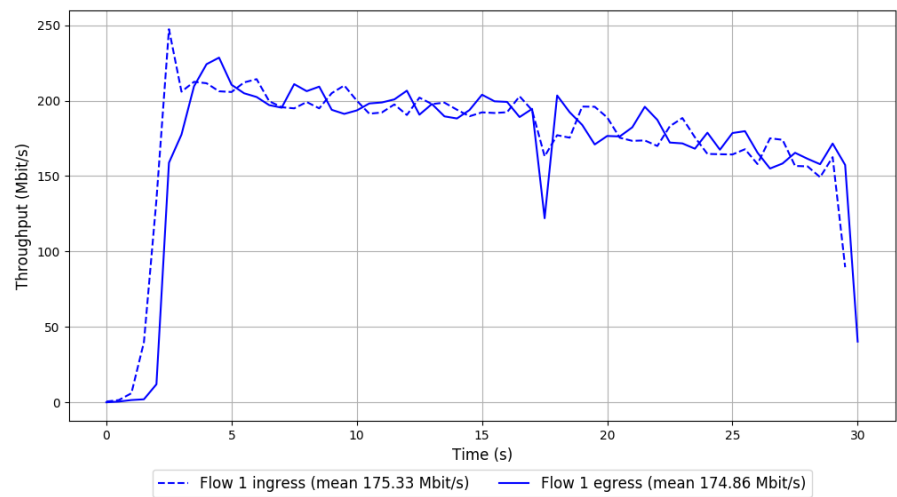
-- Flow 1:

Average throughput: 174.86 Mbit/s

95th percentile per-packet one-way delay: 135.544 ms

Loss rate: 1.16%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-18 04:03:34

End at: 2019-07-18 04:04:04

Local clock offset: 0.23 ms

Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-07-18 07:44:16

# Datalink statistics

-- Total of 1 flow:

Average throughput: 576.55 Mbit/s

95th percentile per-packet one-way delay: 197.019 ms

Loss rate: 1.23%

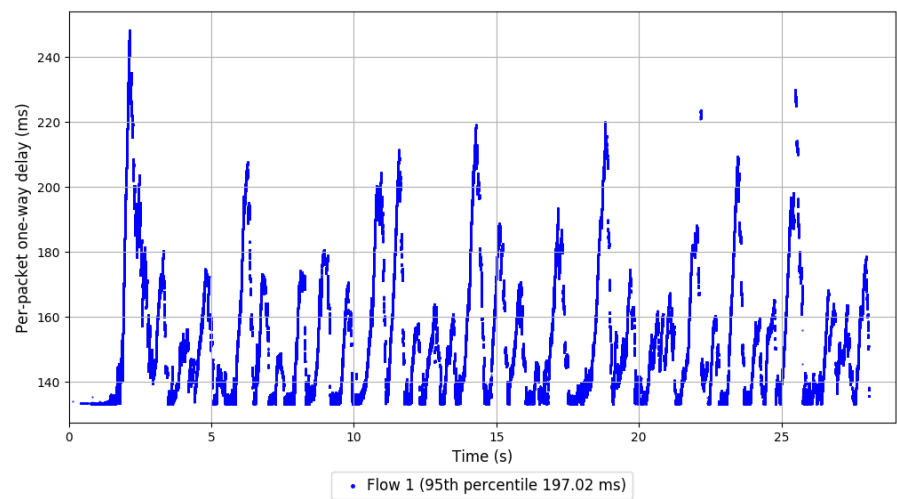
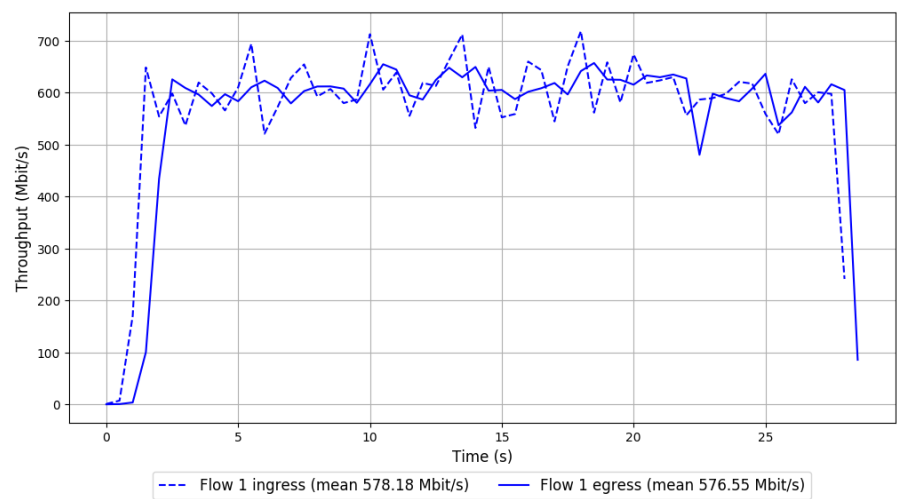
-- Flow 1:

Average throughput: 576.55 Mbit/s

95th percentile per-packet one-way delay: 197.019 ms

Loss rate: 1.23%

Run 1: Report of Indigo-MusesC3 — Data Link

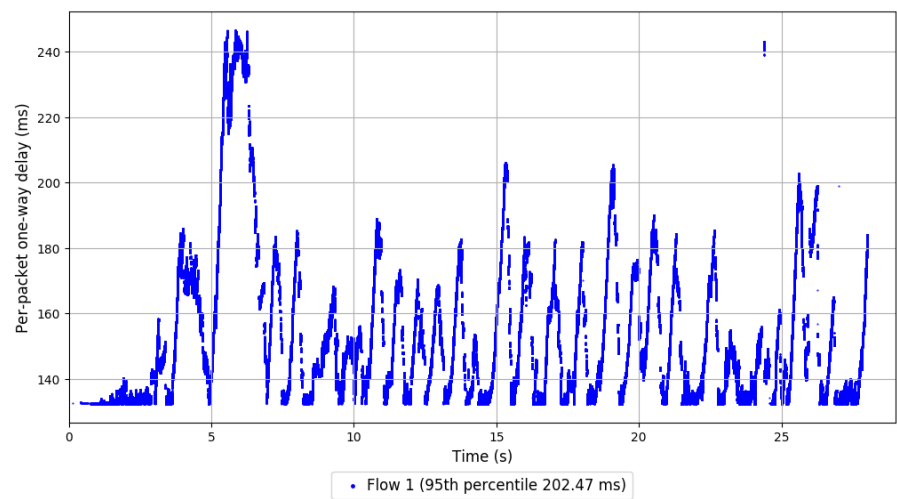
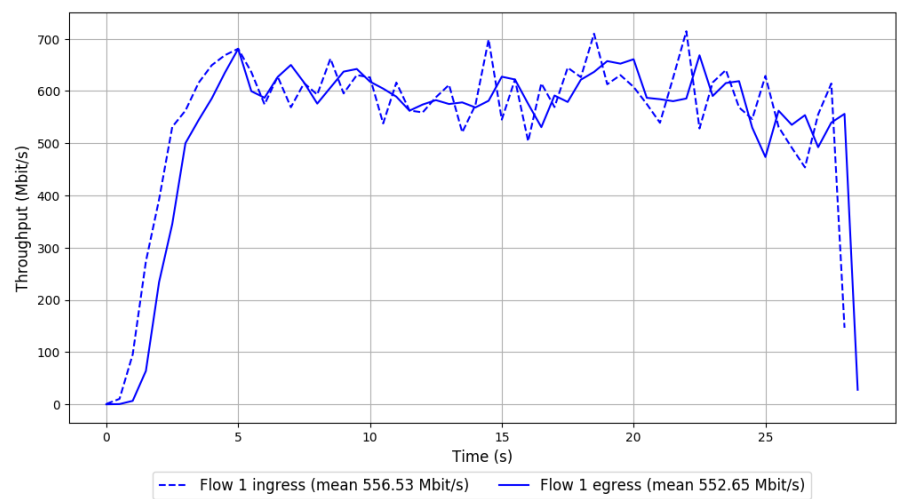


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-18 04:40:02  
End at: 2019-07-18 04:40:32  
Local clock offset: -0.492 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-07-18 07:44:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 552.65 Mbit/s  
95th percentile per-packet one-way delay: 202.465 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 552.65 Mbit/s  
95th percentile per-packet one-way delay: 202.465 ms  
Loss rate: 1.64%

Run 2: Report of Indigo-MusesC3 — Data Link



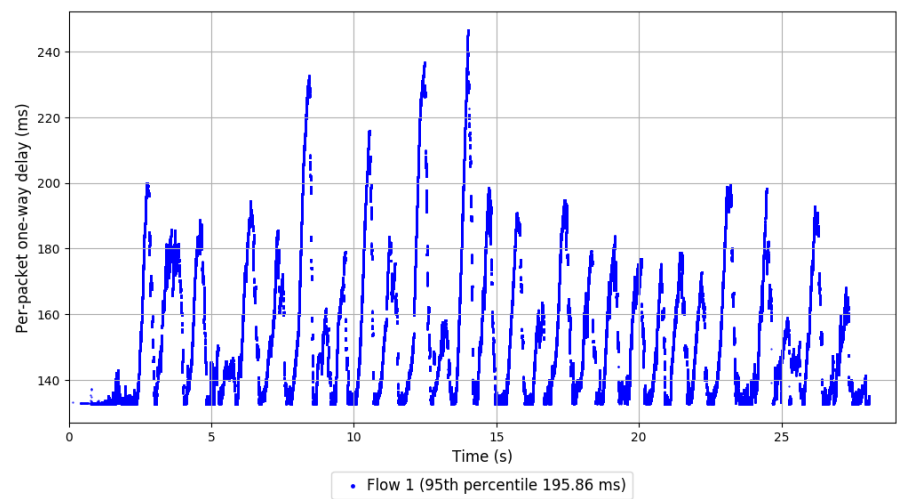
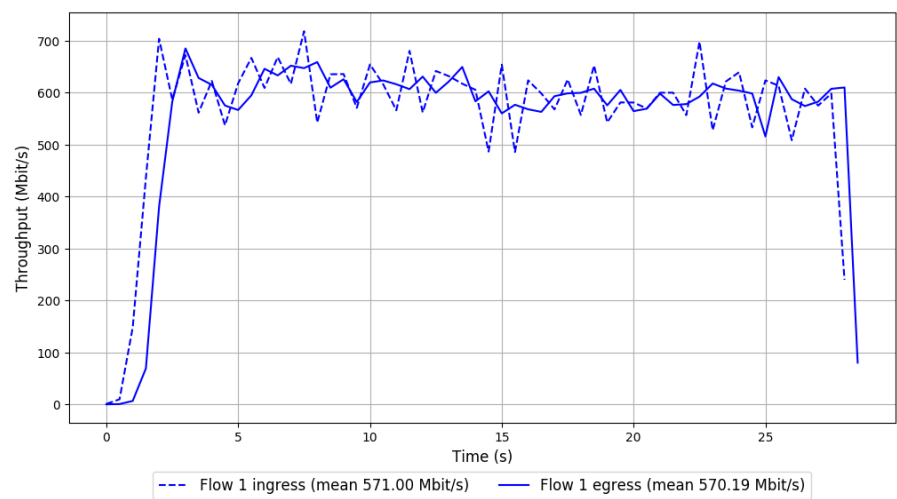


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-18 05:16:02  
End at: 2019-07-18 05:16:32  
Local clock offset: -0.317 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-07-18 07:47:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 570.19 Mbit/s  
95th percentile per-packet one-way delay: 195.856 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 570.19 Mbit/s  
95th percentile per-packet one-way delay: 195.856 ms  
Loss rate: 1.09%

Run 3: Report of Indigo-MusesC3 — Data Link

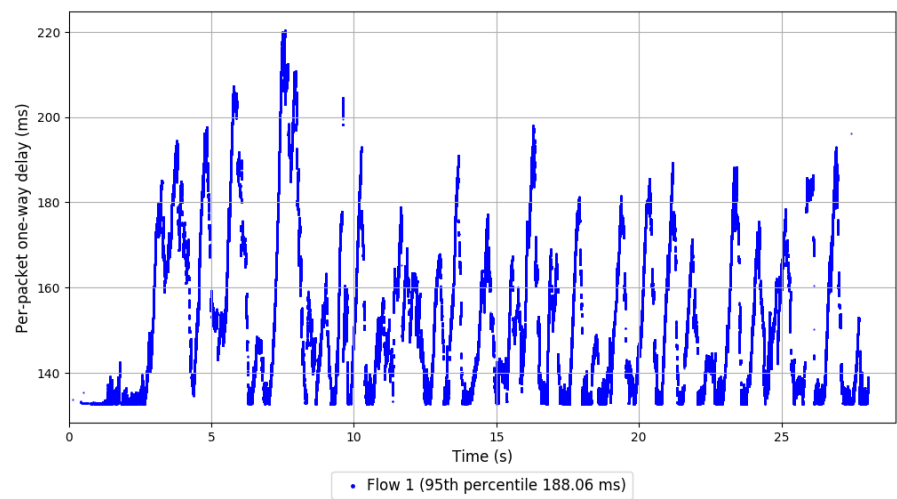
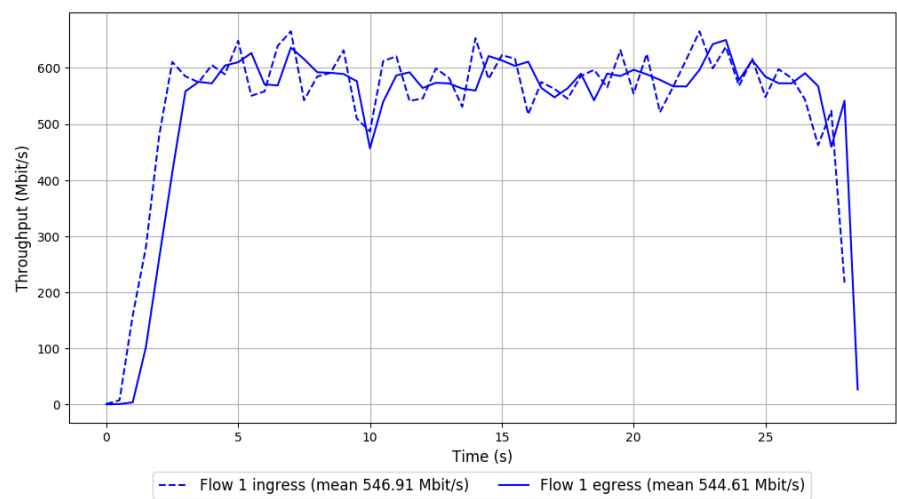


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-18 05:52:16  
End at: 2019-07-18 05:52:46  
Local clock offset: 0.04 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-07-18 07:48:35  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 544.61 Mbit/s  
95th percentile per-packet one-way delay: 188.057 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 544.61 Mbit/s  
95th percentile per-packet one-way delay: 188.057 ms  
Loss rate: 1.36%

Run 4: Report of Indigo-MusesC3 — Data Link

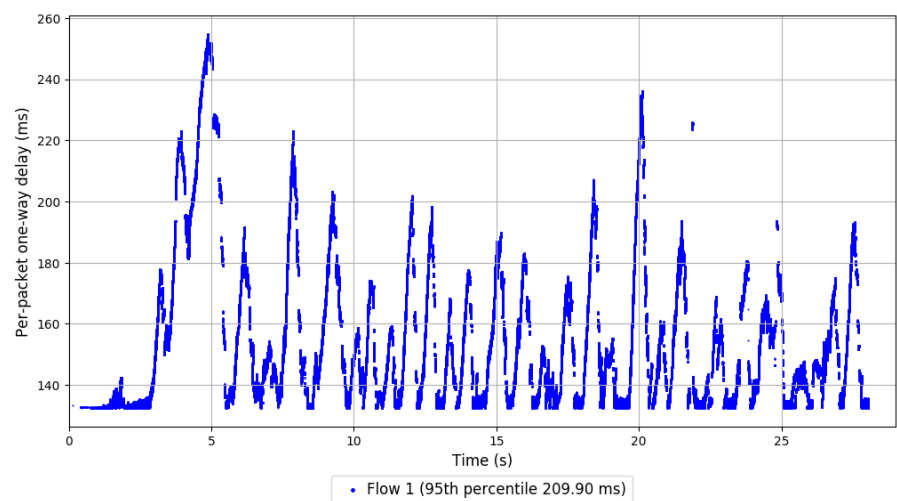
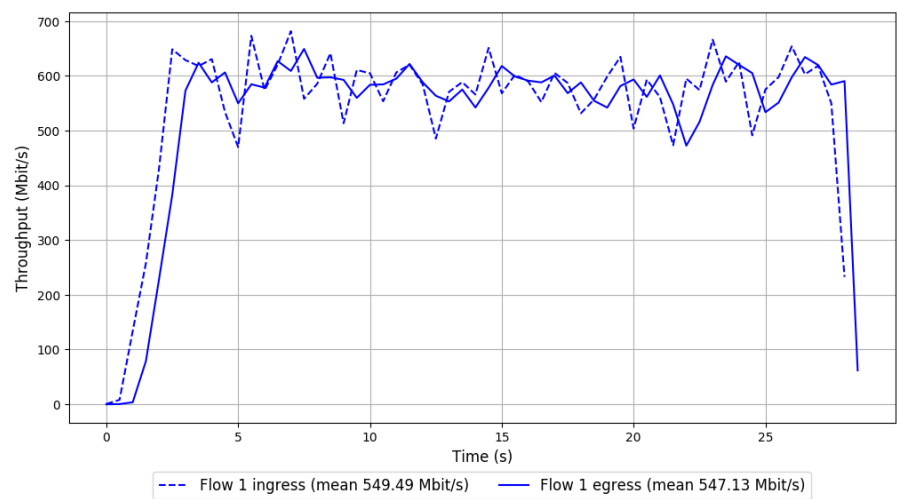


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-18 06:28:34  
End at: 2019-07-18 06:29:04  
Local clock offset: -0.486 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-07-18 07:48:45  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 547.13 Mbit/s  
95th percentile per-packet one-way delay: 209.903 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 547.13 Mbit/s  
95th percentile per-packet one-way delay: 209.903 ms  
Loss rate: 1.37%

Run 5: Report of Indigo-MusesC3 — Data Link

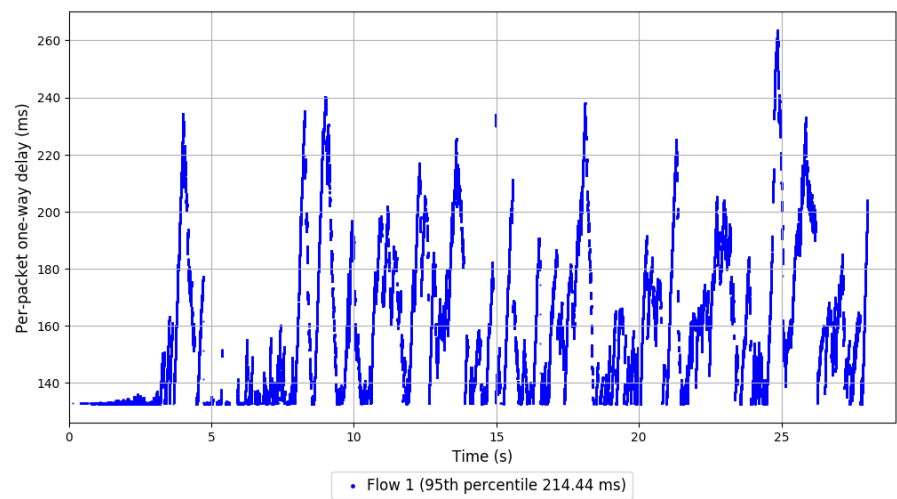
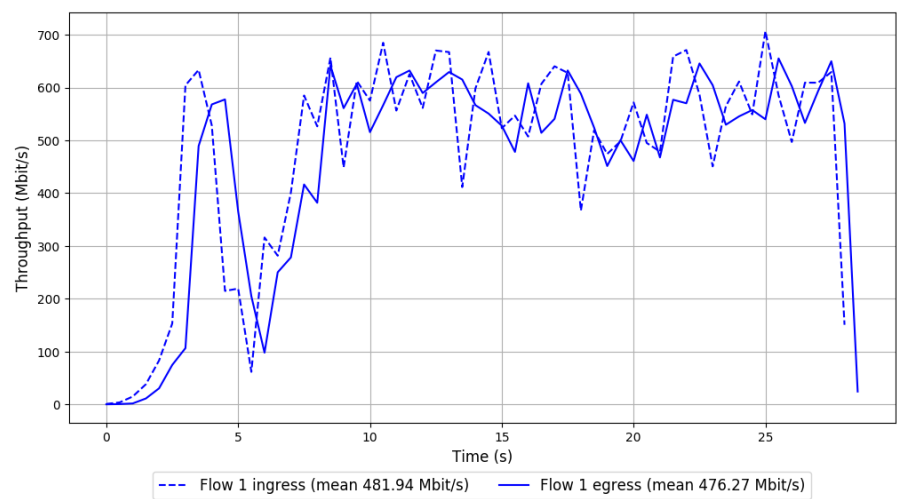


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-18 03:56:11  
End at: 2019-07-18 03:56:41  
Local clock offset: -0.305 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-07-18 07:48:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 476.27 Mbit/s  
95th percentile per-packet one-way delay: 214.441 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 476.27 Mbit/s  
95th percentile per-packet one-way delay: 214.441 ms  
Loss rate: 2.11%

Run 1: Report of Indigo-MusesC5 — Data Link



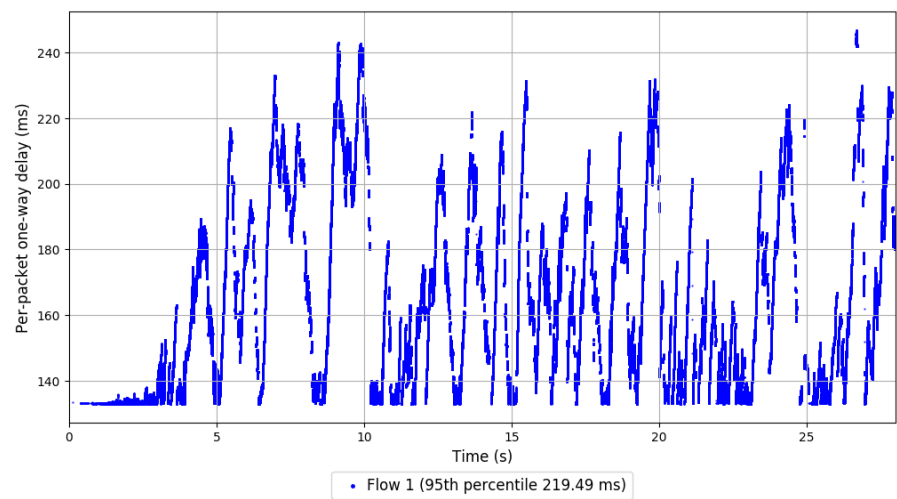
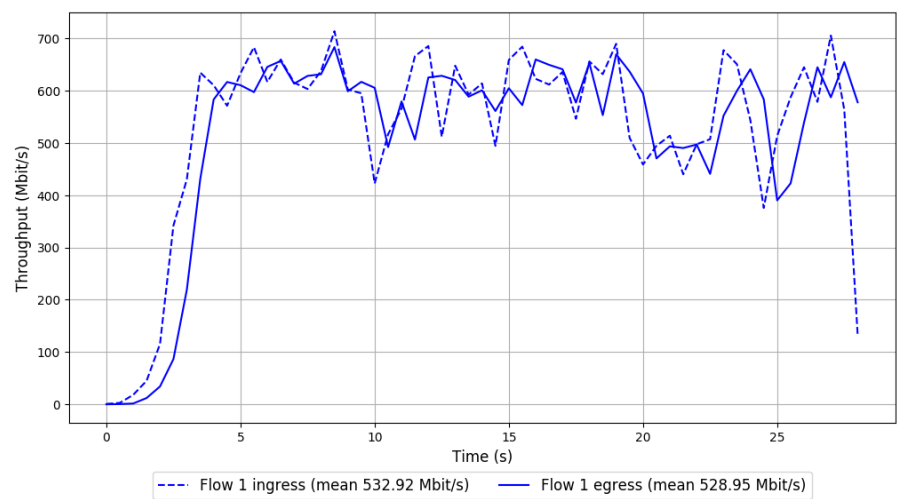


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-18 04:32:31  
End at: 2019-07-18 04:33:01  
Local clock offset: -0.115 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-07-18 07:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 528.95 Mbit/s  
95th percentile per-packet one-way delay: 219.489 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 528.95 Mbit/s  
95th percentile per-packet one-way delay: 219.489 ms  
Loss rate: 1.69%

Run 2: Report of Indigo-MusesC5 — Data Link

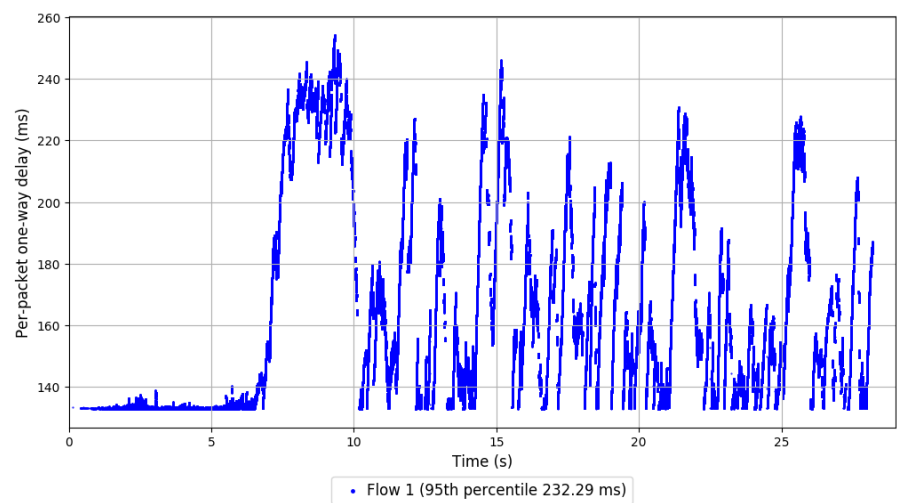
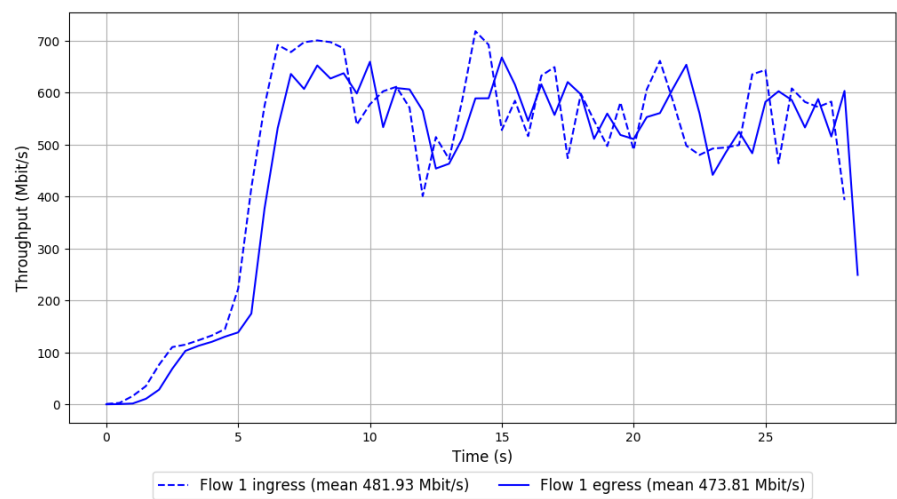


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-18 05:08:57  
End at: 2019-07-18 05:09:27  
Local clock offset: -0.104 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-07-18 07:49:51  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 473.81 Mbit/s  
95th percentile per-packet one-way delay: 232.293 ms  
Loss rate: 2.61%  
-- Flow 1:  
Average throughput: 473.81 Mbit/s  
95th percentile per-packet one-way delay: 232.293 ms  
Loss rate: 2.61%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-18 05:44:54

End at: 2019-07-18 05:45:24

Local clock offset: -0.033 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-07-18 07:52:45

# Datalink statistics

-- Total of 1 flow:

Average throughput: 452.64 Mbit/s

95th percentile per-packet one-way delay: 225.989 ms

Loss rate: 1.68%

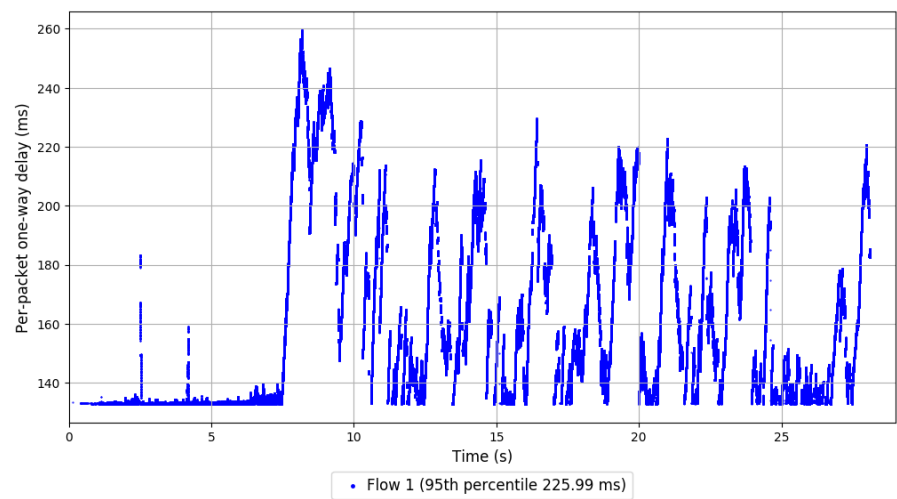
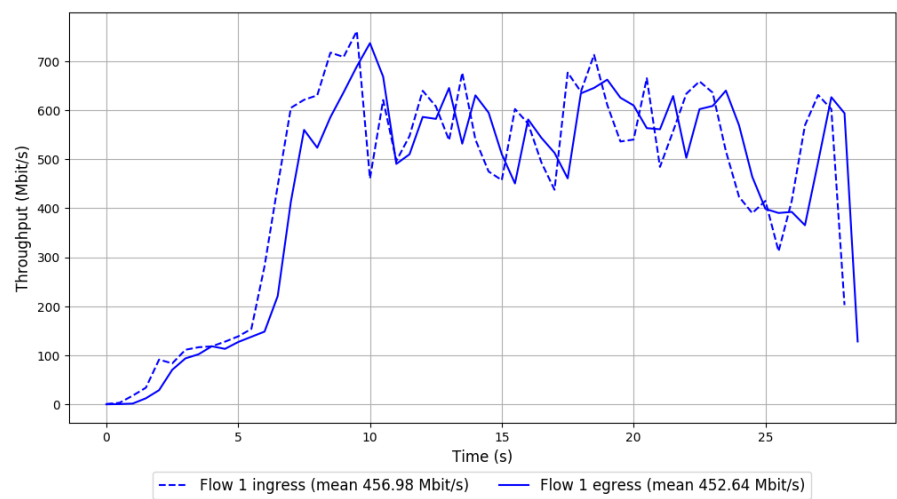
-- Flow 1:

Average throughput: 452.64 Mbit/s

95th percentile per-packet one-way delay: 225.989 ms

Loss rate: 1.68%

Run 4: Report of Indigo-MusesC5 — Data Link

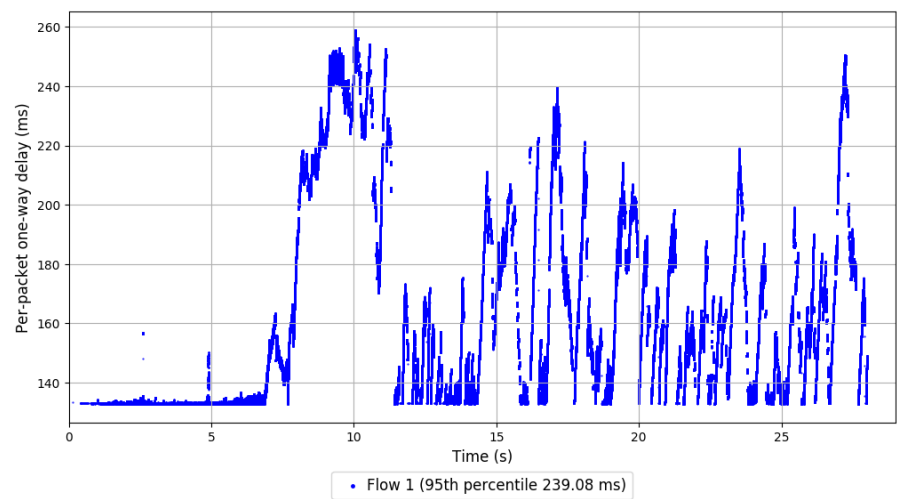
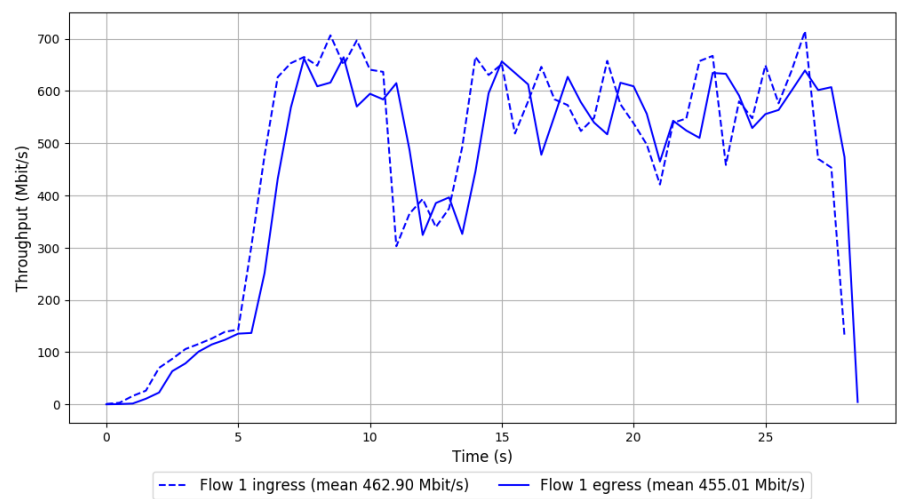


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-18 06:21:10  
End at: 2019-07-18 06:21:40  
Local clock offset: -0.066 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-07-18 07:52:50  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 455.01 Mbit/s  
95th percentile per-packet one-way delay: 239.079 ms  
Loss rate: 2.59%  
-- Flow 1:  
Average throughput: 455.01 Mbit/s  
95th percentile per-packet one-way delay: 239.079 ms  
Loss rate: 2.59%

Run 5: Report of Indigo-MusesC5 — Data Link



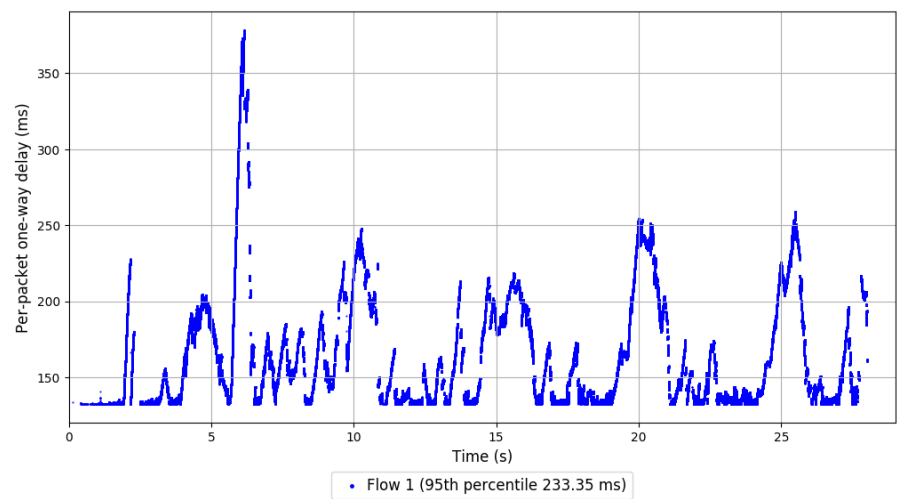
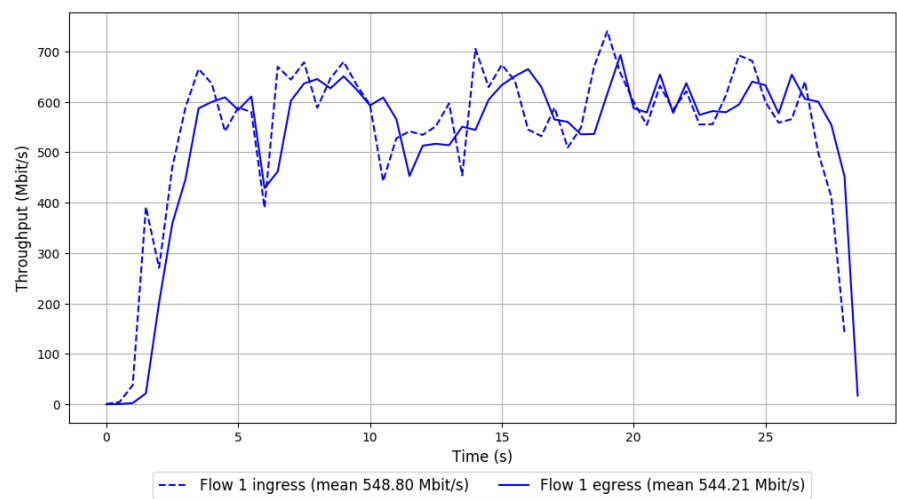


Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-18 04:05:15  
End at: 2019-07-18 04:05:45  
Local clock offset: -0.441 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-07-18 07:57:23  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 544.21 Mbit/s  
95th percentile per-packet one-way delay: 233.348 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 544.21 Mbit/s  
95th percentile per-packet one-way delay: 233.348 ms  
Loss rate: 1.77%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-18 04:41:42

End at: 2019-07-18 04:42:12

Local clock offset: -0.039 ms

Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-07-18 07:57:23

# Datalink statistics

-- Total of 1 flow:

Average throughput: 478.95 Mbit/s

95th percentile per-packet one-way delay: 227.112 ms

Loss rate: 1.76%

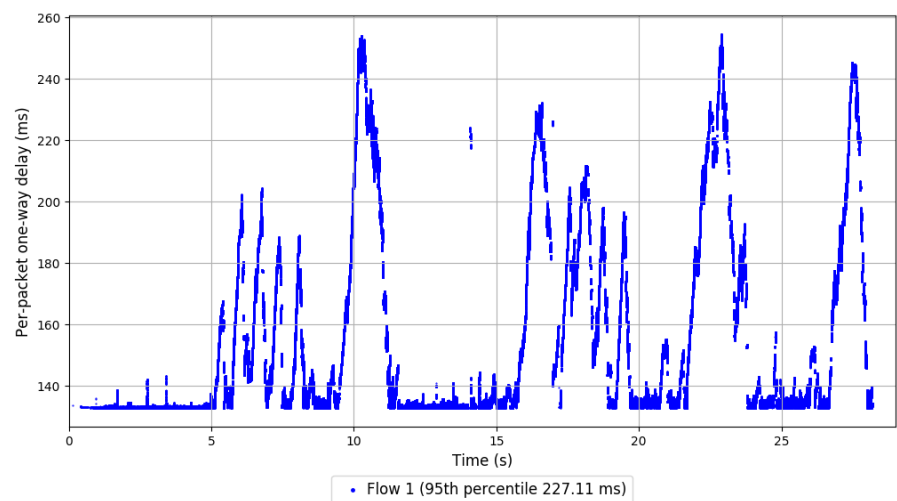
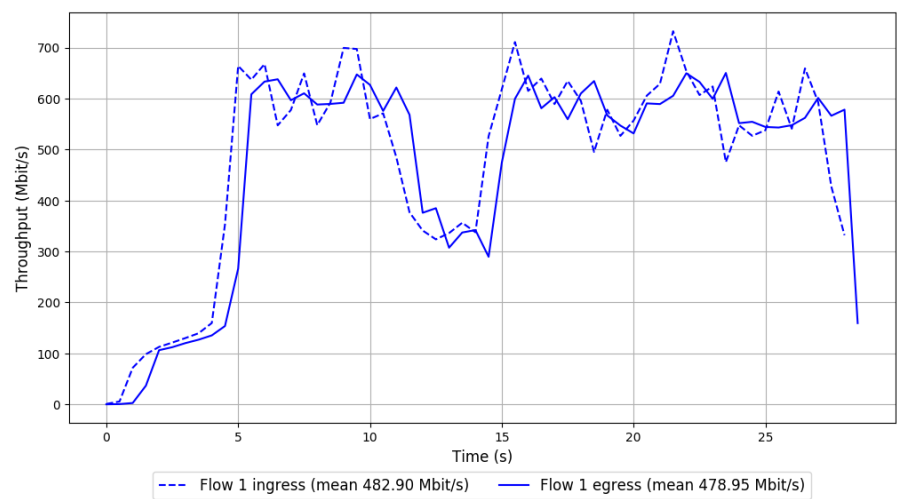
-- Flow 1:

Average throughput: 478.95 Mbit/s

95th percentile per-packet one-way delay: 227.112 ms

Loss rate: 1.76%

Run 2: Report of Indigo-MusesD — Data Link

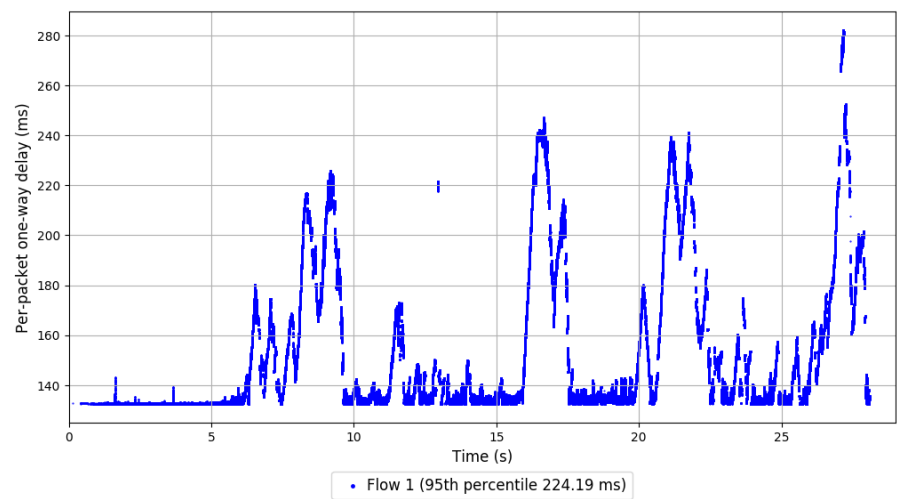
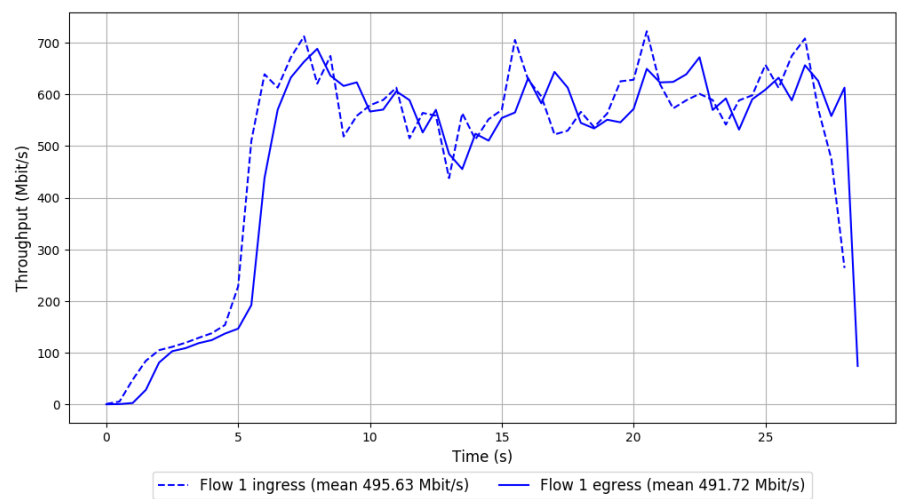


Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-18 05:17:43  
End at: 2019-07-18 05:18:13  
Local clock offset: -0.484 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-07-18 07:57:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 491.72 Mbit/s  
95th percentile per-packet one-way delay: 224.192 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 491.72 Mbit/s  
95th percentile per-packet one-way delay: 224.192 ms  
Loss rate: 1.73%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-18 05:53:56

End at: 2019-07-18 05:54:26

Local clock offset: -0.03 ms

Remote clock offset: -0.114 ms

# Below is generated by plot.py at 2019-07-18 07:58:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 528.66 Mbit/s

95th percentile per-packet one-way delay: 227.214 ms

Loss rate: 1.32%

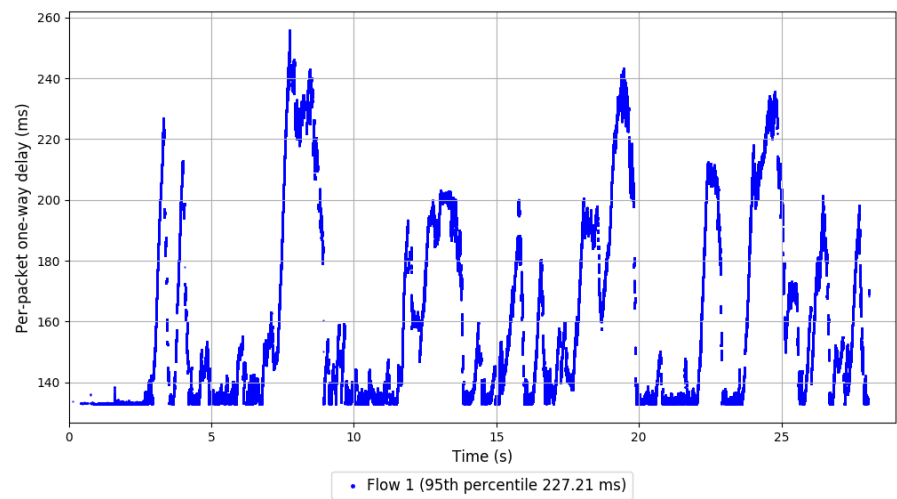
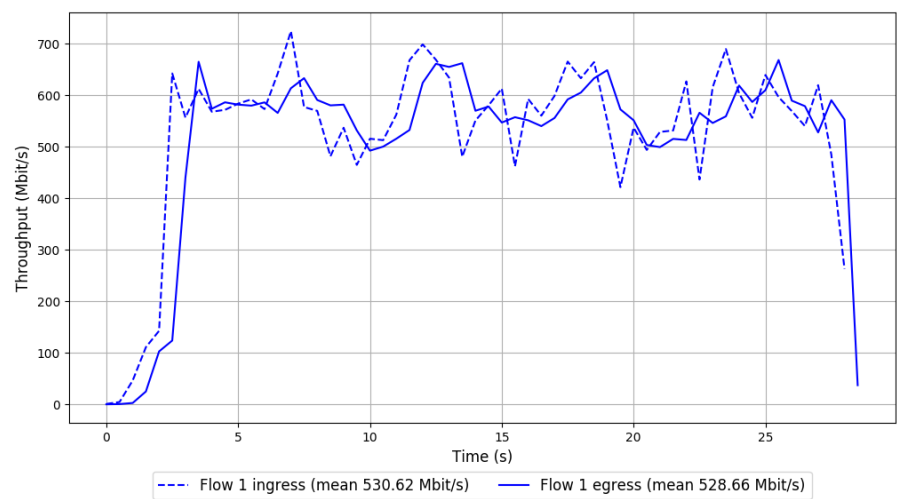
-- Flow 1:

Average throughput: 528.66 Mbit/s

95th percentile per-packet one-way delay: 227.214 ms

Loss rate: 1.32%

Run 4: Report of Indigo-MusesD — Data Link



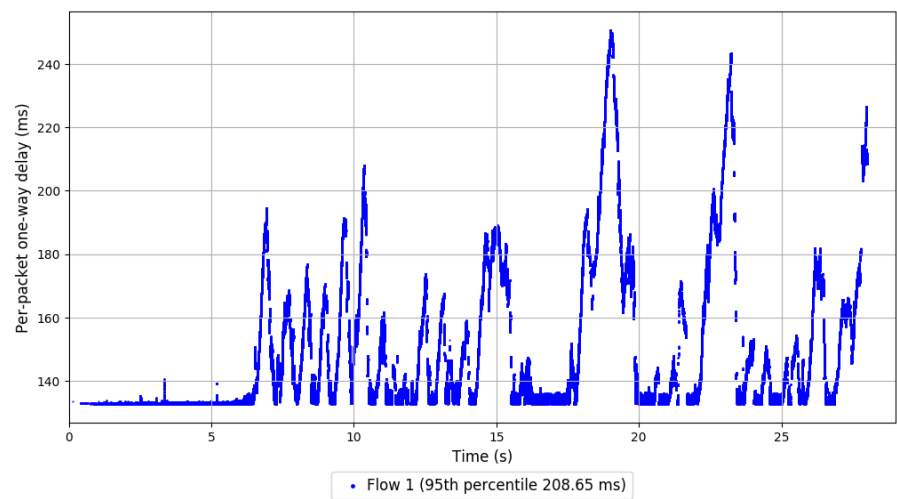
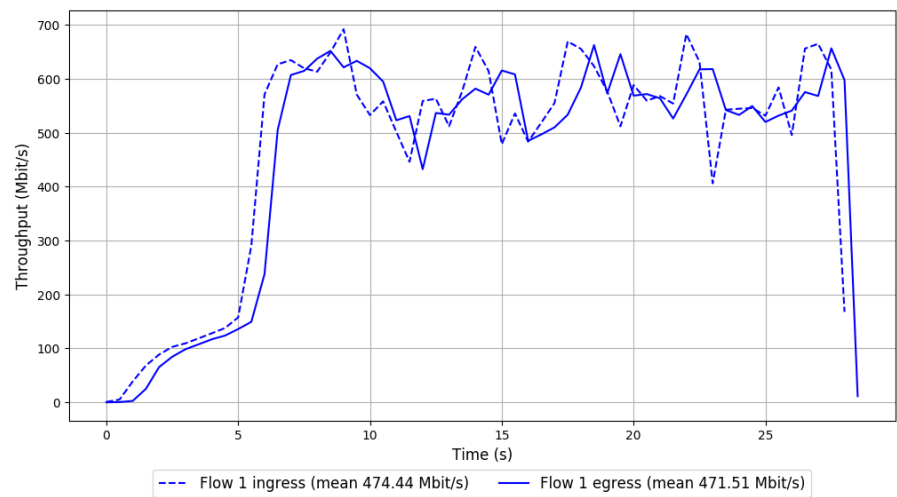


Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-18 06:30:14  
End at: 2019-07-18 06:30:44  
Local clock offset: -0.338 ms  
Remote clock offset: -0.018 ms

# Below is generated by plot.py at 2019-07-18 07:58:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 471.51 Mbit/s  
95th percentile per-packet one-way delay: 208.653 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 471.51 Mbit/s  
95th percentile per-packet one-way delay: 208.653 ms  
Loss rate: 1.55%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-18 03:57:49

End at: 2019-07-18 03:58:19

Local clock offset: 0.31 ms

Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-07-18 08:01:03

# Datalink statistics

-- Total of 1 flow:

Average throughput: 589.49 Mbit/s

95th percentile per-packet one-way delay: 239.457 ms

Loss rate: 3.08%

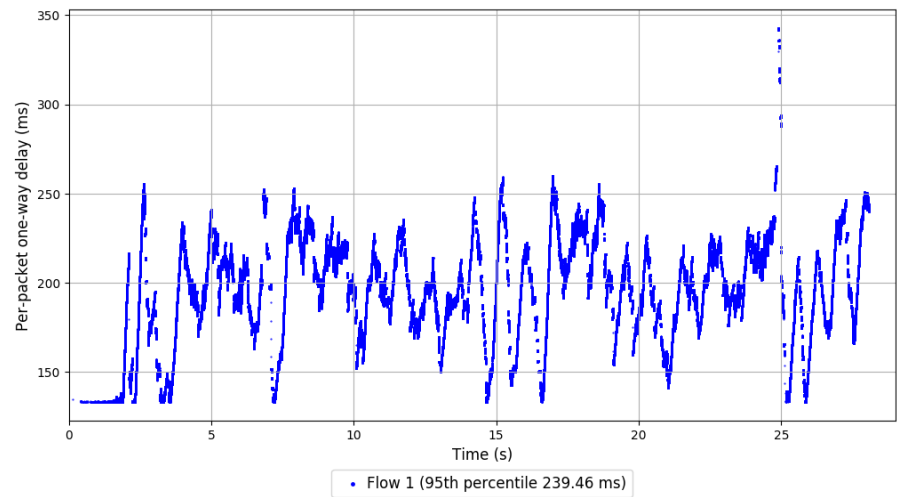
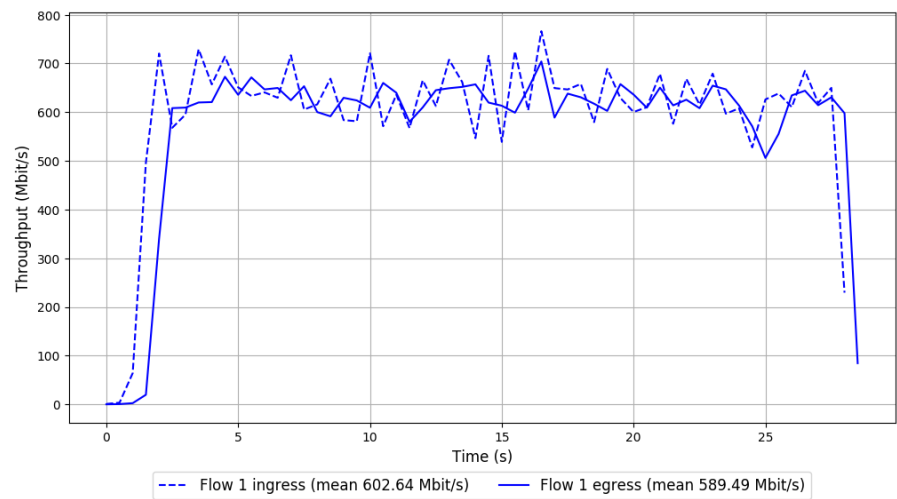
-- Flow 1:

Average throughput: 589.49 Mbit/s

95th percentile per-packet one-way delay: 239.457 ms

Loss rate: 3.08%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-18 04:34:10

End at: 2019-07-18 04:34:40

Local clock offset: 0.197 ms

Remote clock offset: 0.32 ms

# Below is generated by plot.py at 2019-07-18 08:04:31

# Datalink statistics

-- Total of 1 flow:

Average throughput: 606.83 Mbit/s

95th percentile per-packet one-way delay: 238.355 ms

Loss rate: 3.27%

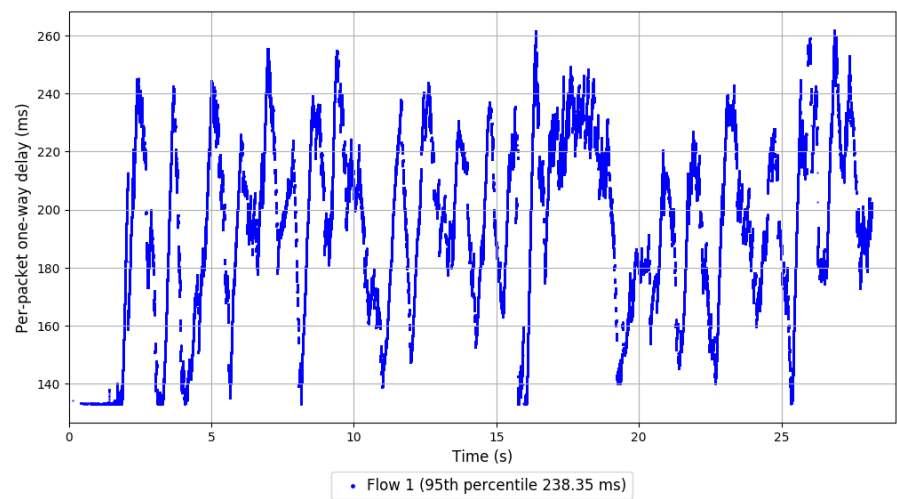
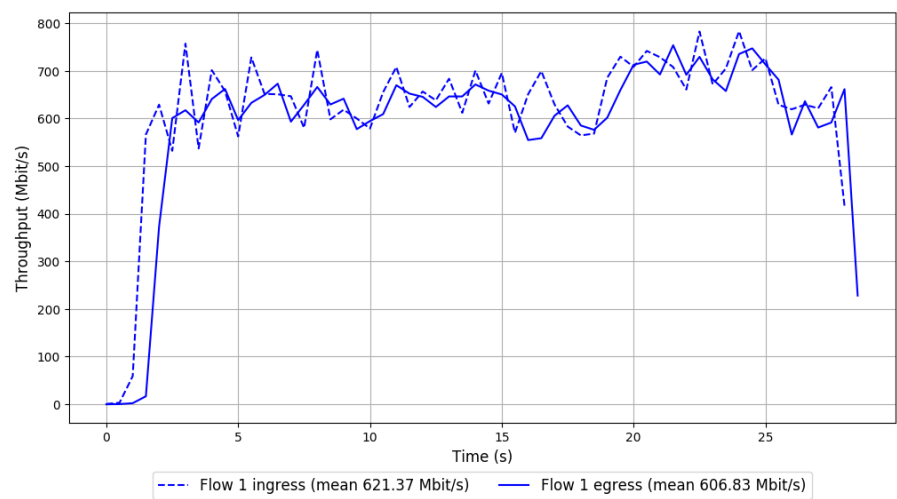
-- Flow 1:

Average throughput: 606.83 Mbit/s

95th percentile per-packet one-way delay: 238.355 ms

Loss rate: 3.27%

Run 2: Report of Indigo-MusesT — Data Link

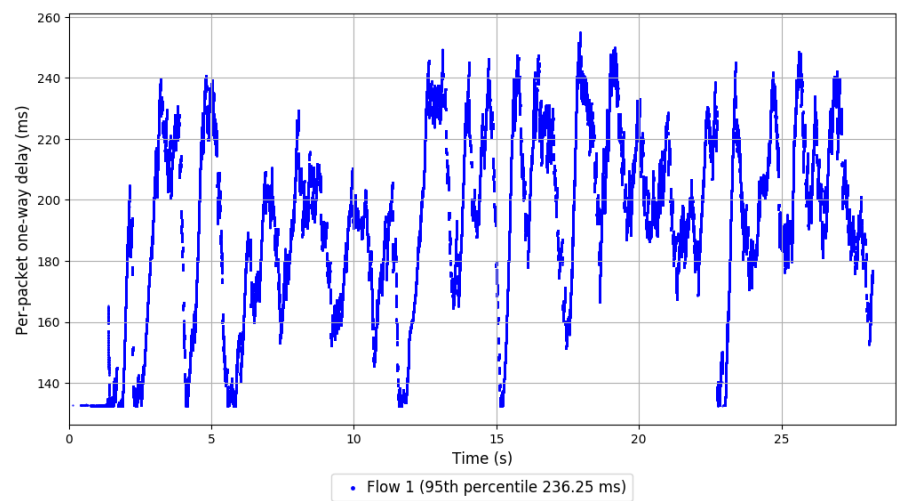
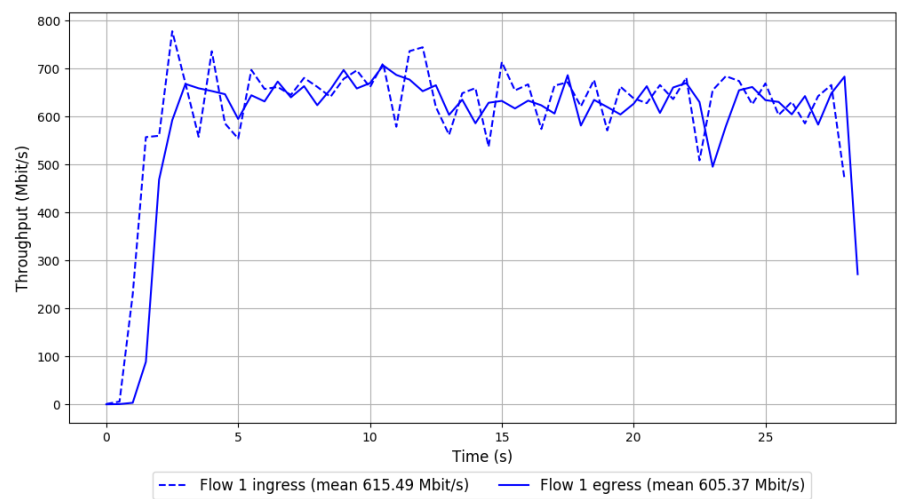


Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-18 05:10:33  
End at: 2019-07-18 05:11:03  
Local clock offset: -0.008 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-07-18 08:04:39  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 605.37 Mbit/s  
95th percentile per-packet one-way delay: 236.249 ms  
Loss rate: 2.56%  
-- Flow 1:  
Average throughput: 605.37 Mbit/s  
95th percentile per-packet one-way delay: 236.249 ms  
Loss rate: 2.56%

Run 3: Report of Indigo-MusesT — Data Link



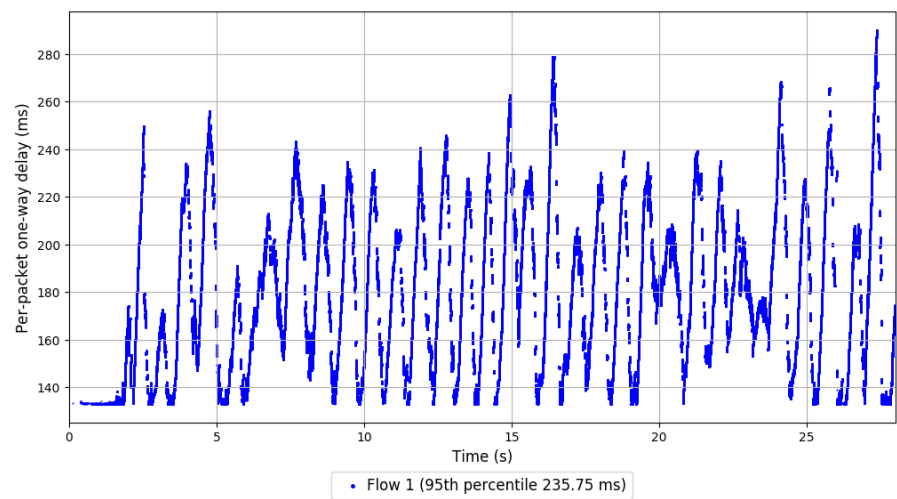
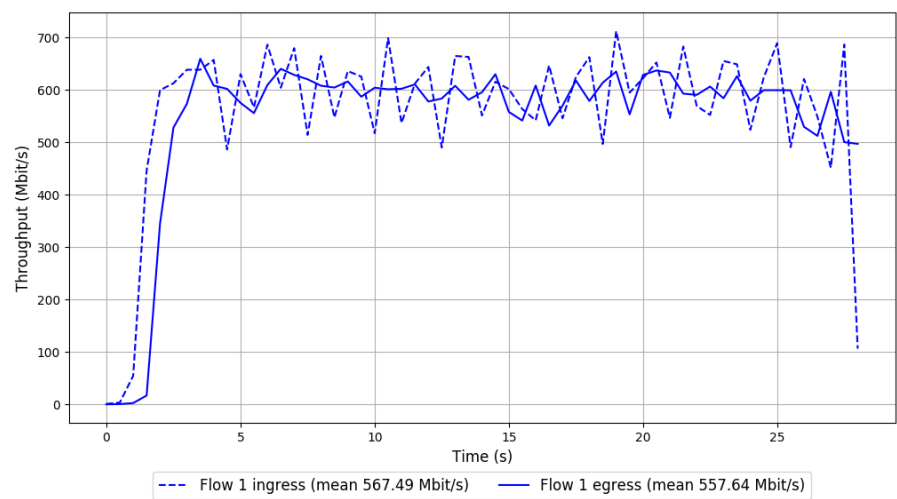


Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-18 05:46:30  
End at: 2019-07-18 05:47:00  
Local clock offset: -0.023 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-07-18 08:07:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 557.64 Mbit/s  
95th percentile per-packet one-way delay: 235.749 ms  
Loss rate: 2.67%  
-- Flow 1:  
Average throughput: 557.64 Mbit/s  
95th percentile per-packet one-way delay: 235.749 ms  
Loss rate: 2.67%

Run 4: Report of Indigo-MusesT — Data Link

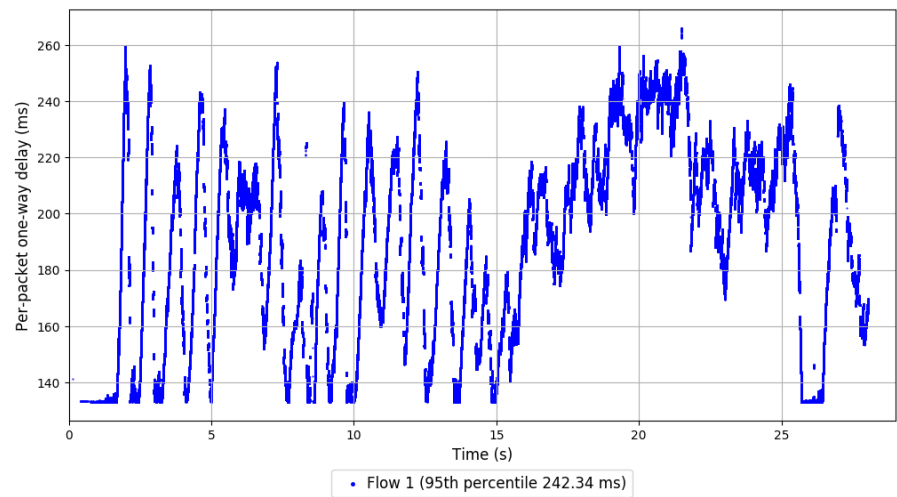
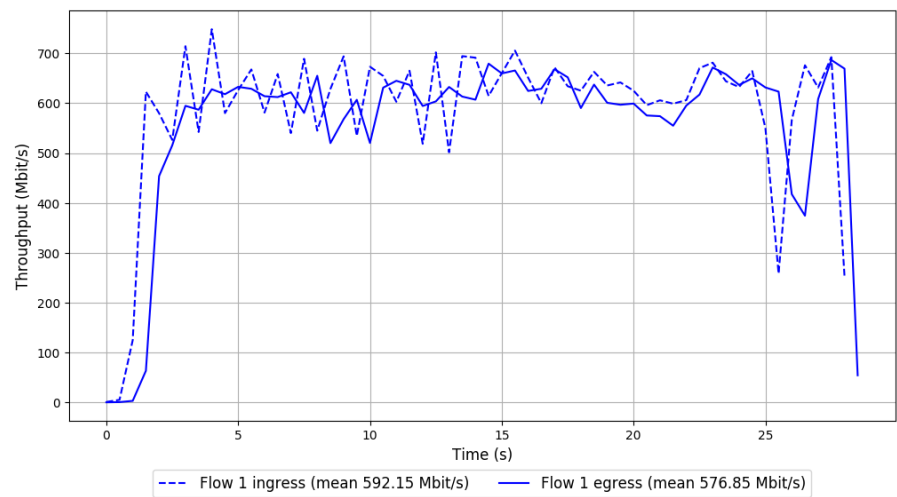


Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-18 06:22:46  
End at: 2019-07-18 06:23:16  
Local clock offset: -0.112 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-07-18 08:08:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 576.85 Mbit/s  
95th percentile per-packet one-way delay: 242.345 ms  
Loss rate: 3.53%  
-- Flow 1:  
Average throughput: 576.85 Mbit/s  
95th percentile per-packet one-way delay: 242.345 ms  
Loss rate: 3.53%

Run 5: Report of Indigo-MusesT — Data Link

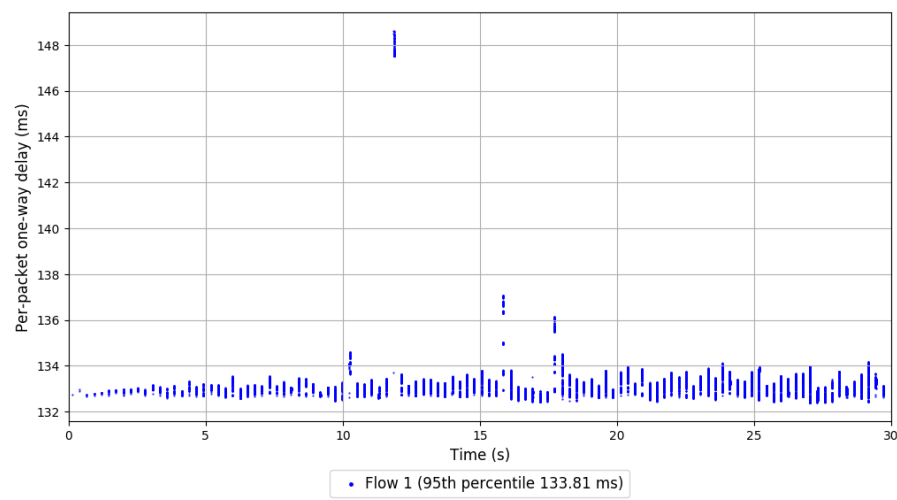
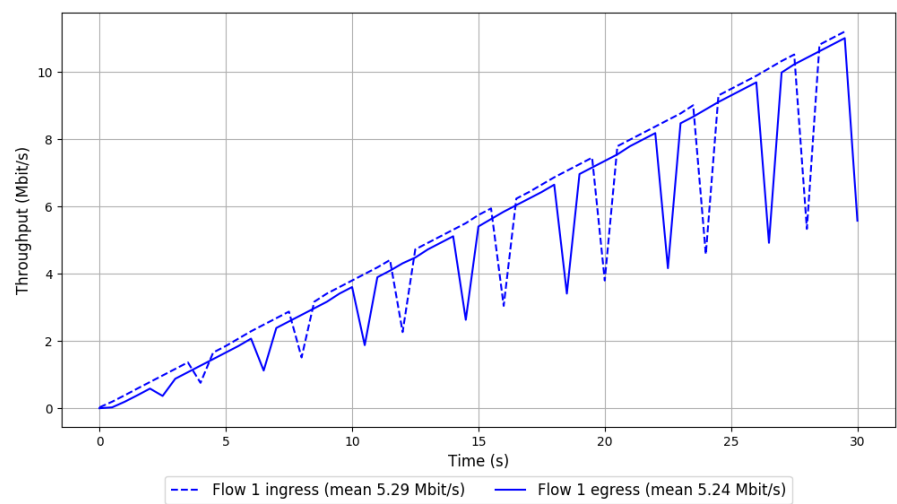


```
Run 1: Statistics of LEDBAT

Start at: 2019-07-18 04:16:10
End at: 2019-07-18 04:16:40
Local clock offset: 0.383 ms
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-07-18 08:08:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.815 ms
Loss rate: 1.78%
-- Flow 1:
Average throughput: 5.24 Mbit/s
95th percentile per-packet one-way delay: 133.815 ms
Loss rate: 1.78%
```

Run 1: Report of LEDBAT — Data Link

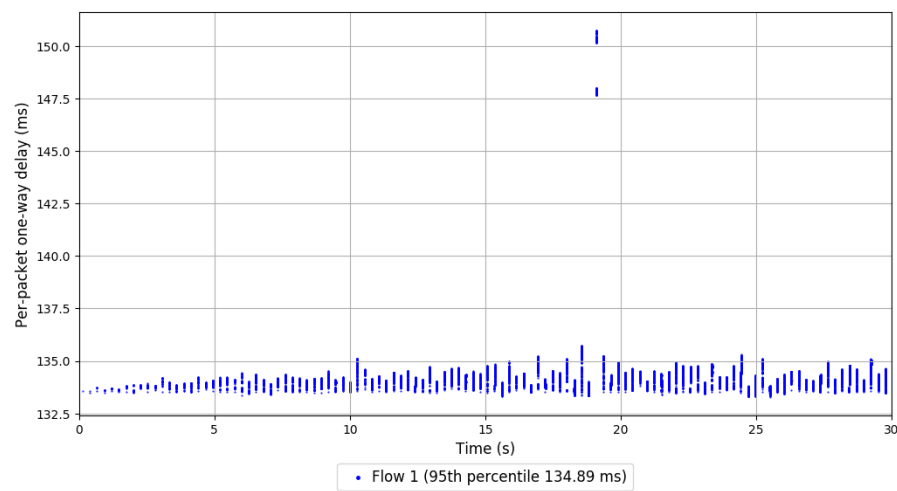
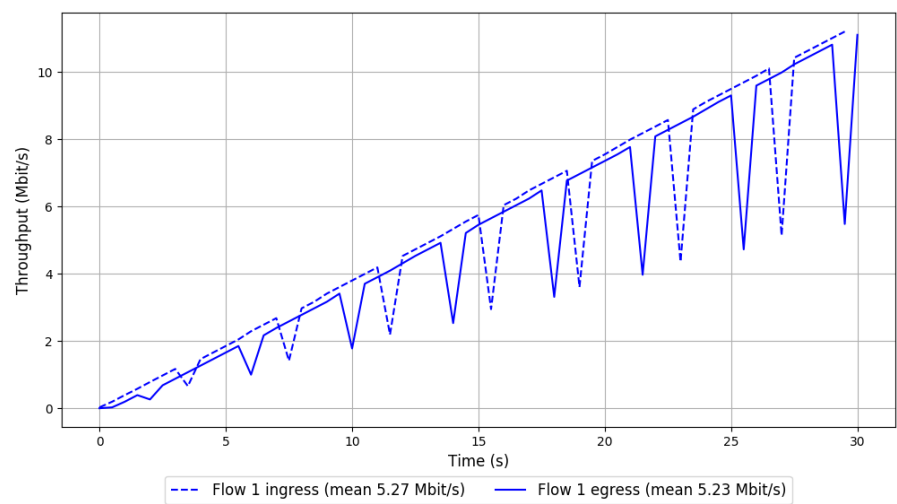


Run 2: Statistics of LEDBAT

Start at: 2019-07-18 04:52:39  
End at: 2019-07-18 04:53:09  
Local clock offset: 0.343 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-07-18 08:08:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.890 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.890 ms  
Loss rate: 1.78%

Run 2: Report of LEDBAT — Data Link



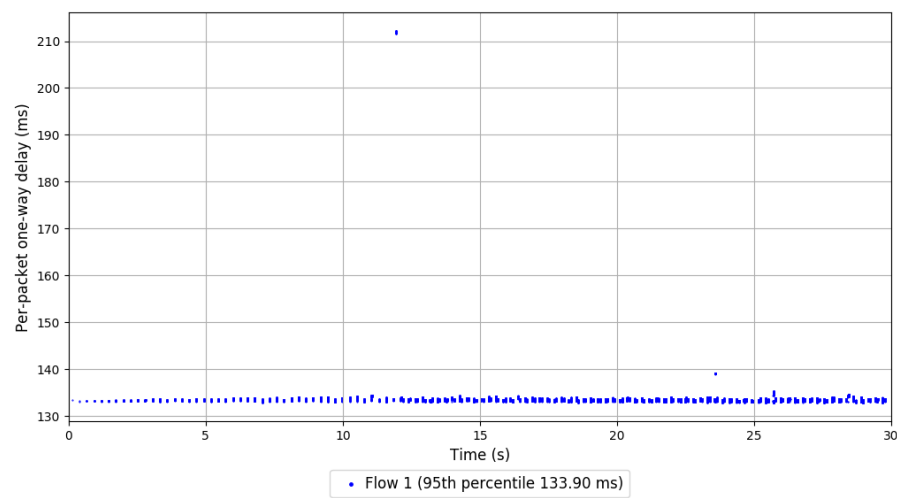
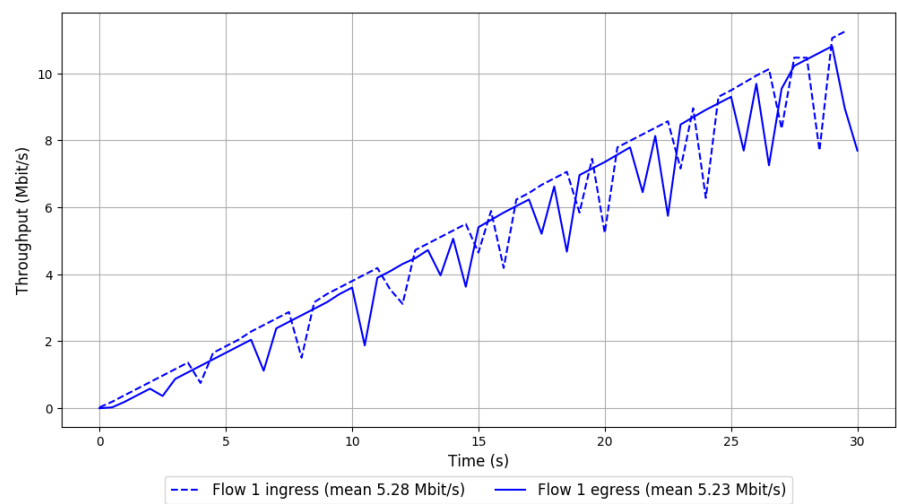


Run 3: Statistics of LEDBAT

Start at: 2019-07-18 05:28:46  
End at: 2019-07-18 05:29:16  
Local clock offset: -0.074 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-07-18 08:08:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 133.904 ms  
Loss rate: 1.79%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 133.904 ms  
Loss rate: 1.79%

Run 3: Report of LEDBAT — Data Link

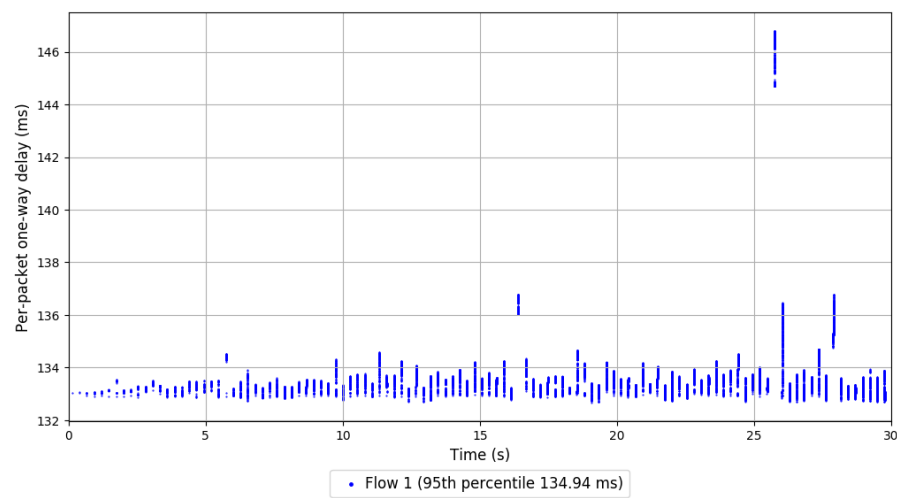
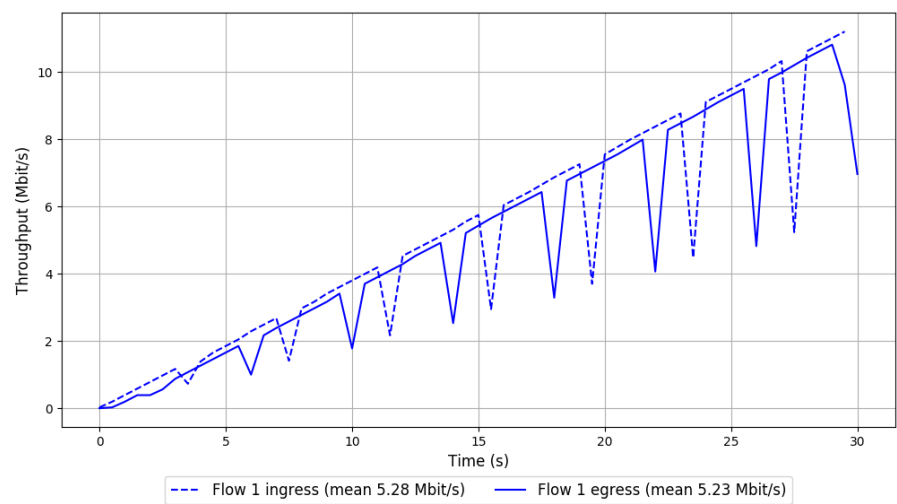


Run 4: Statistics of LEDBAT

Start at: 2019-07-18 06:04:56  
End at: 2019-07-18 06:05:26  
Local clock offset: -0.17 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-07-18 08:08:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.941 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 134.941 ms  
Loss rate: 1.78%

Run 4: Report of LEDBAT — Data Link

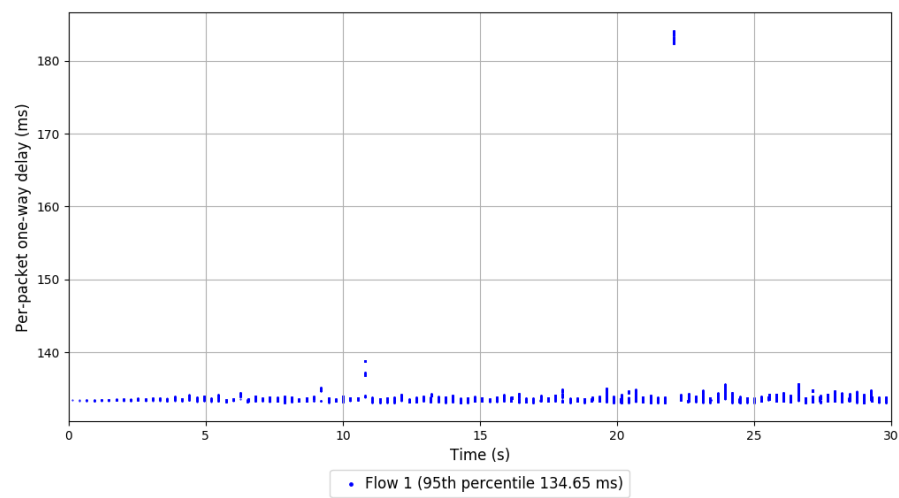
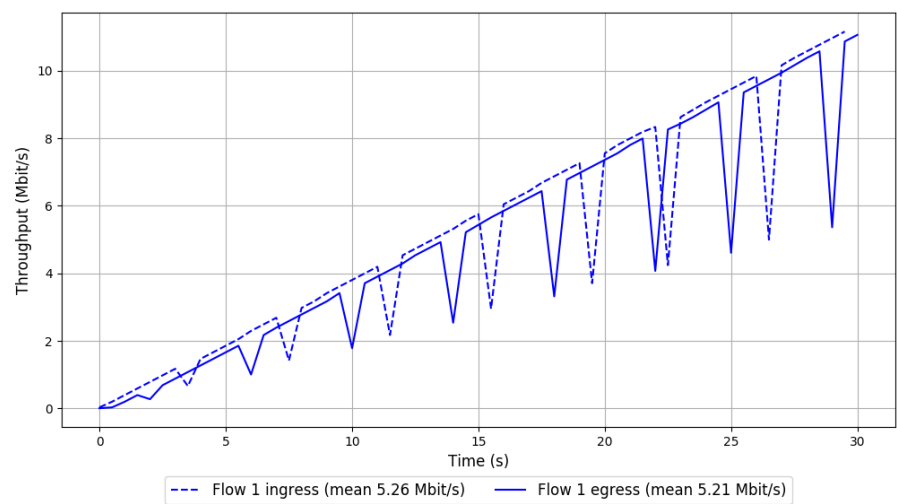


Run 5: Statistics of LEDBAT

Start at: 2019-07-18 06:41:06  
End at: 2019-07-18 06:41:36  
Local clock offset: 0.089 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-07-18 08:08:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 5.21 Mbit/s  
95th percentile per-packet one-way delay: 134.648 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 5.21 Mbit/s  
95th percentile per-packet one-way delay: 134.648 ms  
Loss rate: 1.78%

Run 5: Report of LEDBAT — Data Link

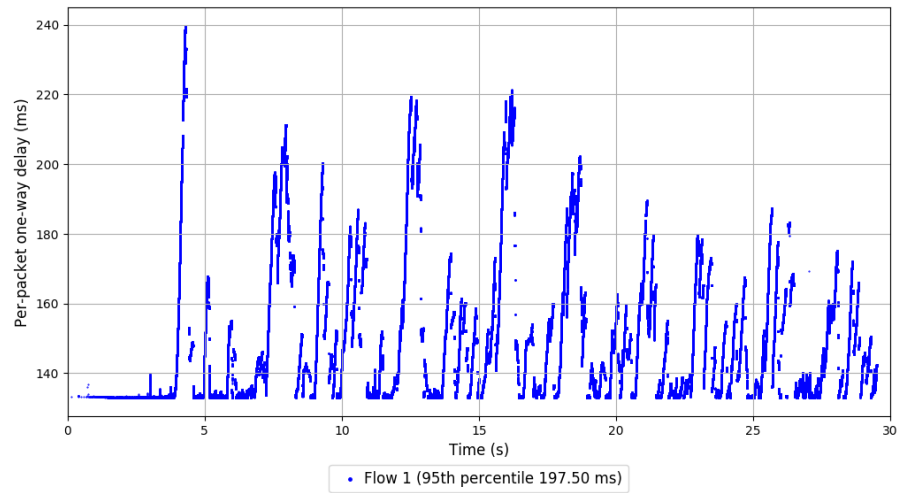
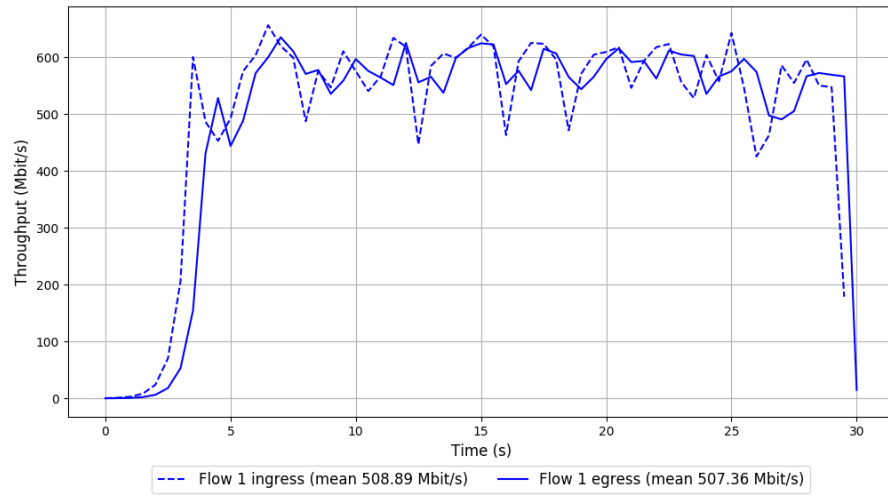


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 04:12:53  
End at: 2019-07-18 04:13:23  
Local clock offset: -0.0 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-07-18 08:08:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 507.36 Mbit/s  
95th percentile per-packet one-way delay: 197.500 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 507.36 Mbit/s  
95th percentile per-packet one-way delay: 197.500 ms  
Loss rate: 1.20%

# Run 1: Report of Muses\_DecisionTree — Data Link



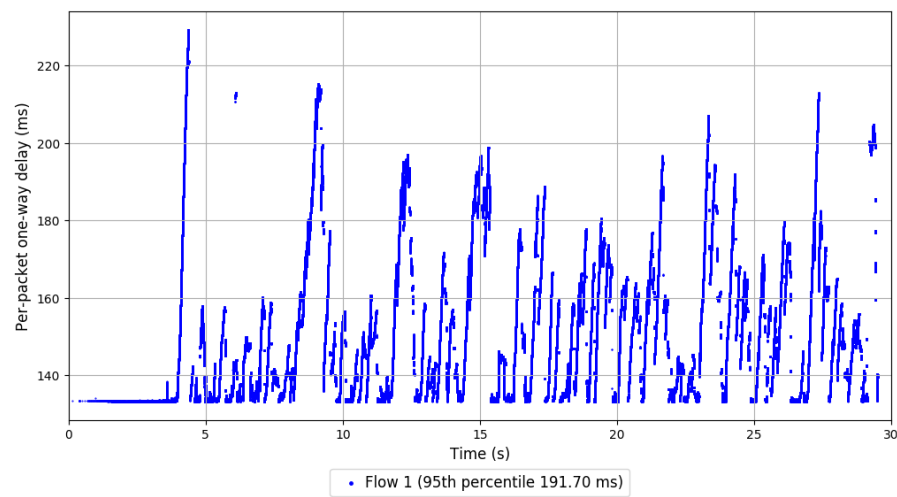
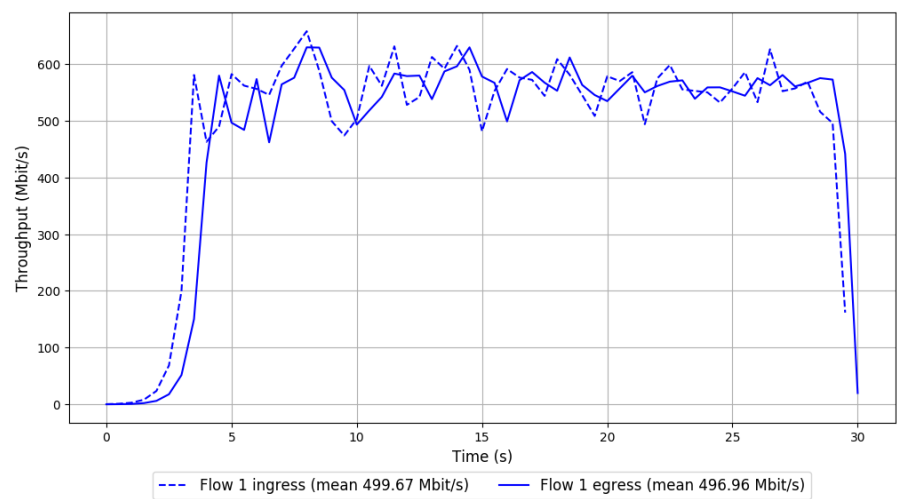


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 04:49:21  
End at: 2019-07-18 04:49:51  
Local clock offset: 0.277 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-07-18 08:08:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 496.96 Mbit/s  
95th percentile per-packet one-way delay: 191.700 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 496.96 Mbit/s  
95th percentile per-packet one-way delay: 191.700 ms  
Loss rate: 1.43%

Run 2: Report of Muses\_DecisionTree — Data Link

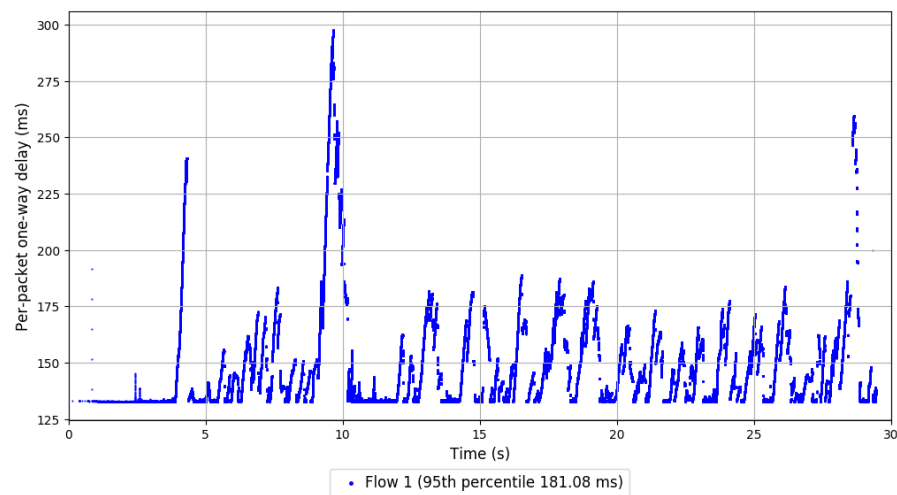
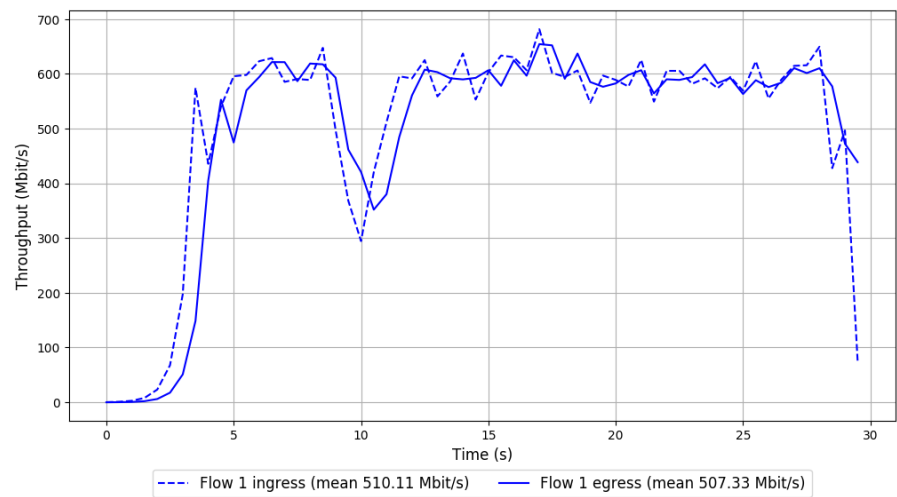


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 05:25:27  
End at: 2019-07-18 05:25:57  
Local clock offset: -0.135 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-07-18 08:08:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 507.33 Mbit/s  
95th percentile per-packet one-way delay: 181.082 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 507.33 Mbit/s  
95th percentile per-packet one-way delay: 181.082 ms  
Loss rate: 1.29%

Run 3: Report of Muses\_DecisionTree — Data Link

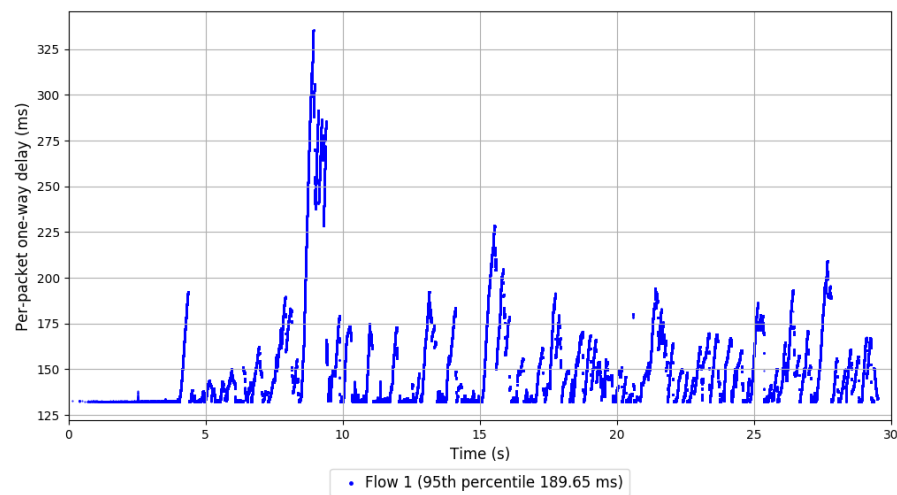
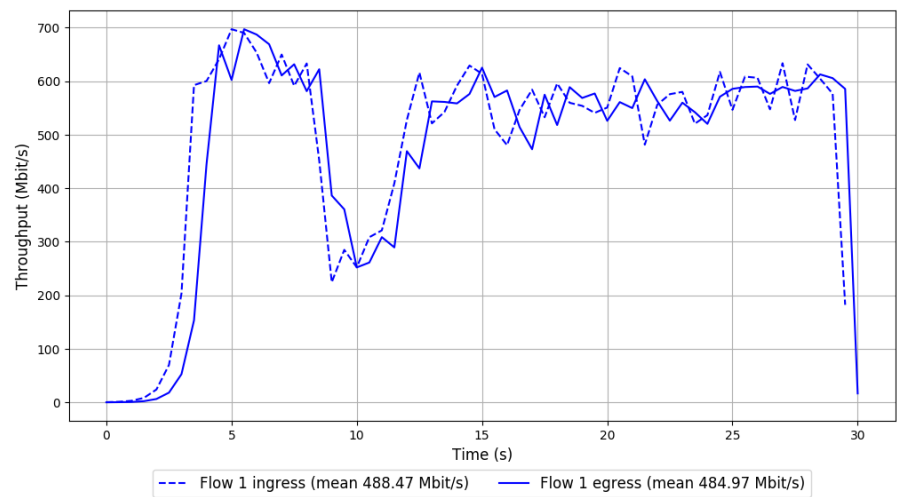


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 06:01:40  
End at: 2019-07-18 06:02:10  
Local clock offset: -0.172 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-07-18 08:11:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 484.97 Mbit/s  
95th percentile per-packet one-way delay: 189.650 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 484.97 Mbit/s  
95th percentile per-packet one-way delay: 189.650 ms  
Loss rate: 1.61%

Run 4: Report of Muses\_DecisionTree — Data Link

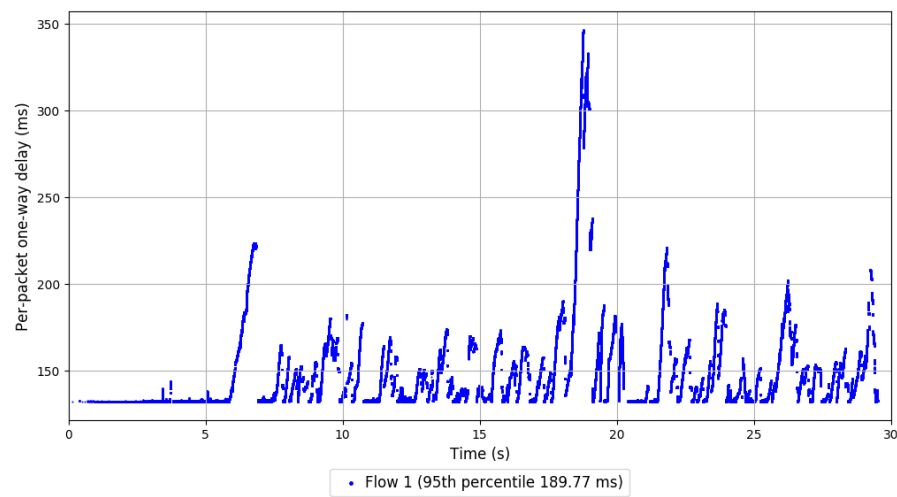
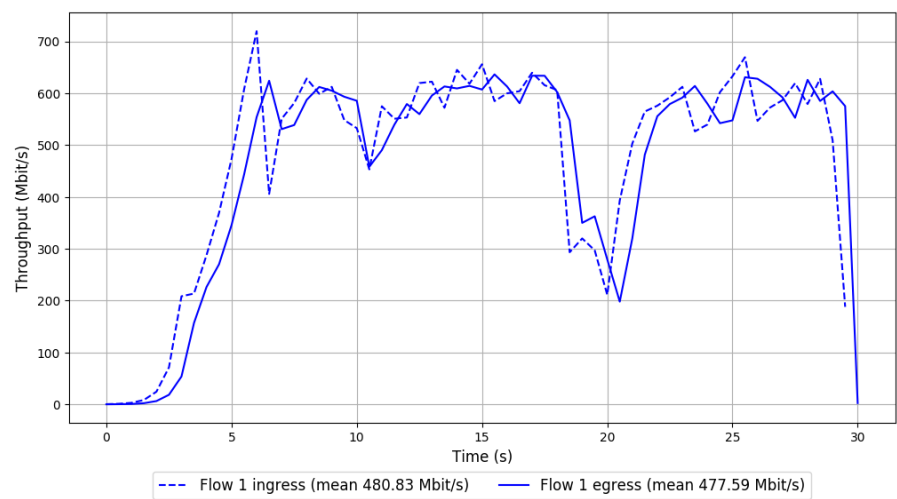


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-07-18 06:37:47  
End at: 2019-07-18 06:38:17  
Local clock offset: -0.089 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-07-18 08:14:33  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 477.59 Mbit/s  
95th percentile per-packet one-way delay: 189.770 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 477.59 Mbit/s  
95th percentile per-packet one-way delay: 189.770 ms  
Loss rate: 1.56%

Run 5: Report of Muses\_DecisionTree — Data Link



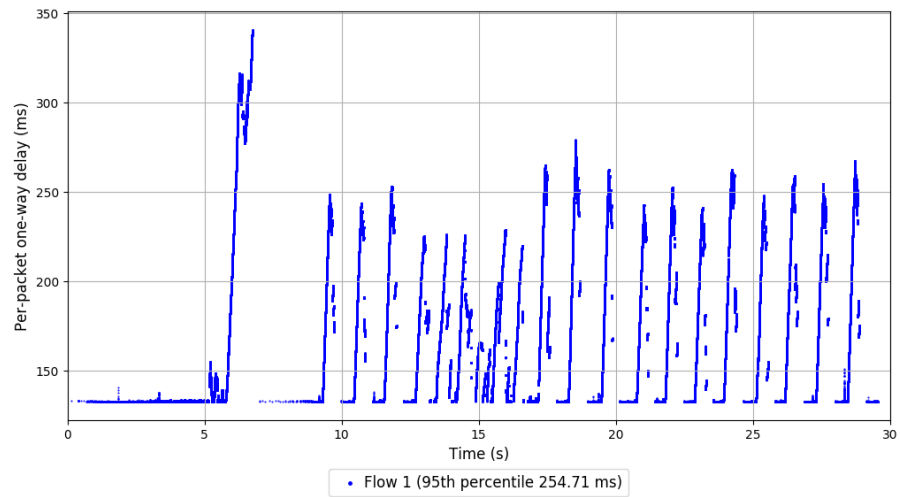
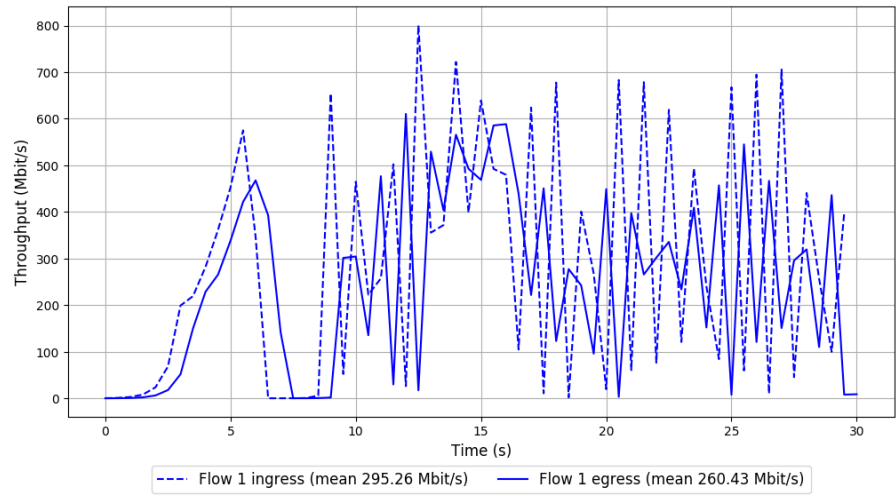


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 03:49:24
End at: 2019-07-18 03:49:54
Local clock offset: -0.107 ms
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-07-18 08:14:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 260.43 Mbit/s
95th percentile per-packet one-way delay: 254.706 ms
Loss rate: 12.59%
-- Flow 1:
Average throughput: 260.43 Mbit/s
95th percentile per-packet one-way delay: 254.706 ms
Loss rate: 12.59%
```

# Run 1: Report of Muses\_DecisionTreeH0 — Data Link

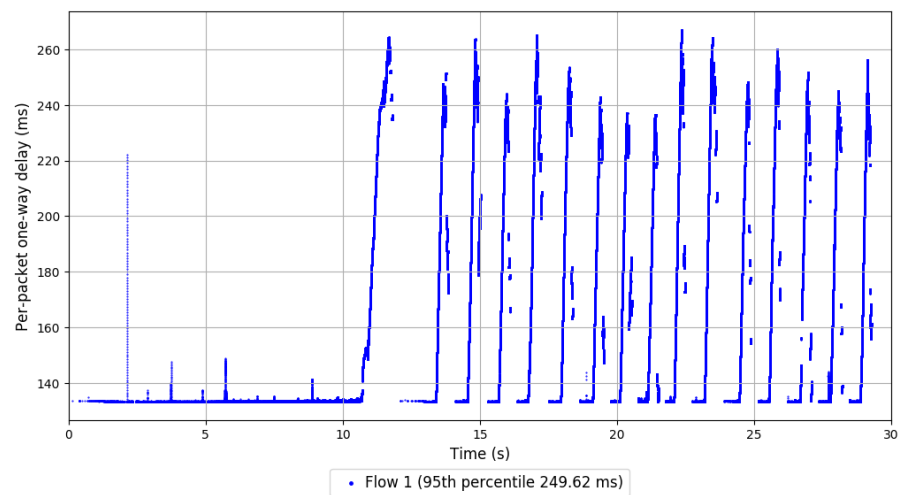
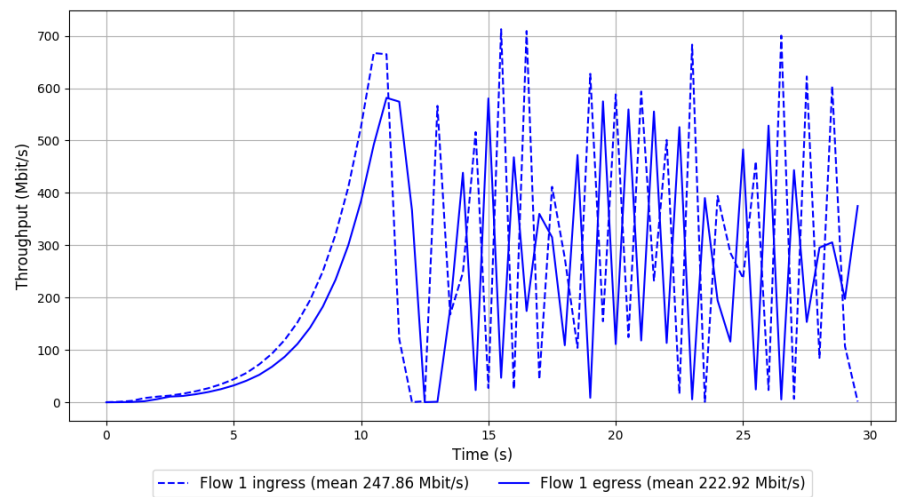


```
Run 2: Statistics of Muses\_DecisionTreeH0

Start at: 2019-07-18 04:25:25
End at: 2019-07-18 04:25:55
Local clock offset: 0.216 ms
Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-07-18 08:14:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.92 Mbit/s
95th percentile per-packet one-way delay: 249.618 ms
Loss rate: 11.51%
-- Flow 1:
Average throughput: 222.92 Mbit/s
95th percentile per-packet one-way delay: 249.618 ms
Loss rate: 11.51%
```

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

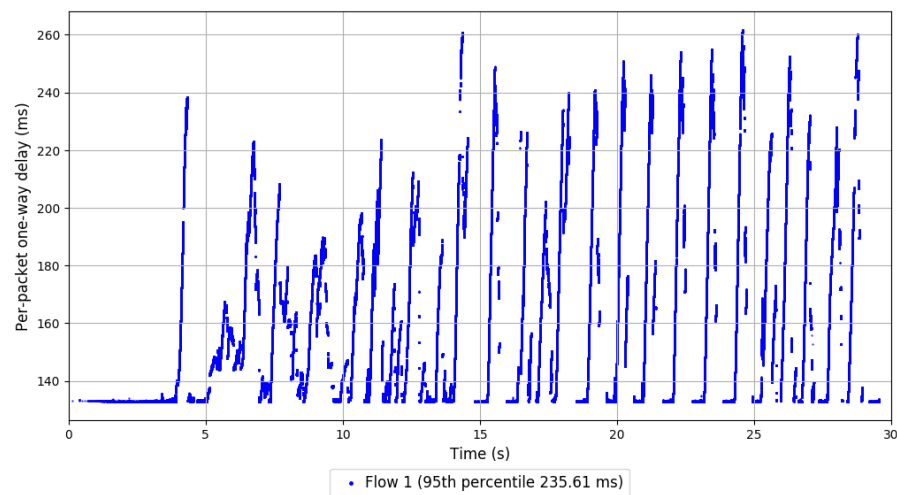
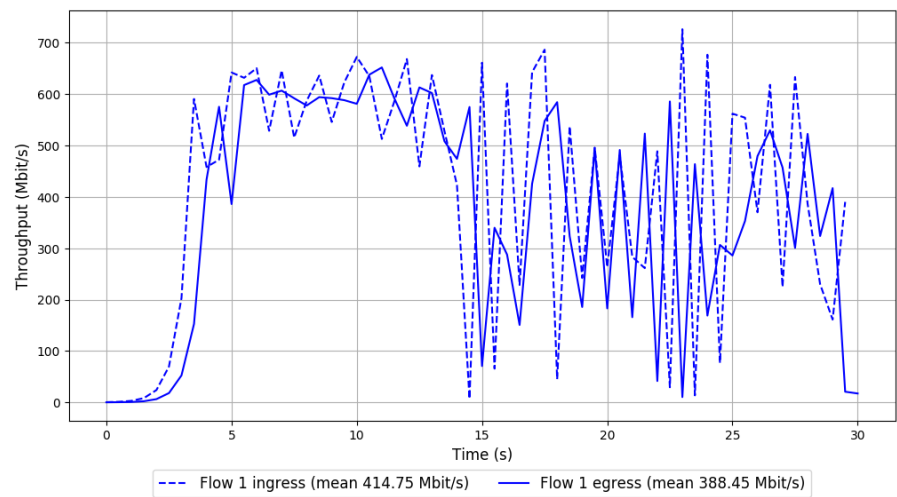


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 05:01:44  
End at: 2019-07-18 05:02:14  
Local clock offset: -0.042 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-07-18 08:16:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 388.45 Mbit/s  
95th percentile per-packet one-way delay: 235.612 ms  
Loss rate: 7.18%  
-- Flow 1:  
Average throughput: 388.45 Mbit/s  
95th percentile per-packet one-way delay: 235.612 ms  
Loss rate: 7.18%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

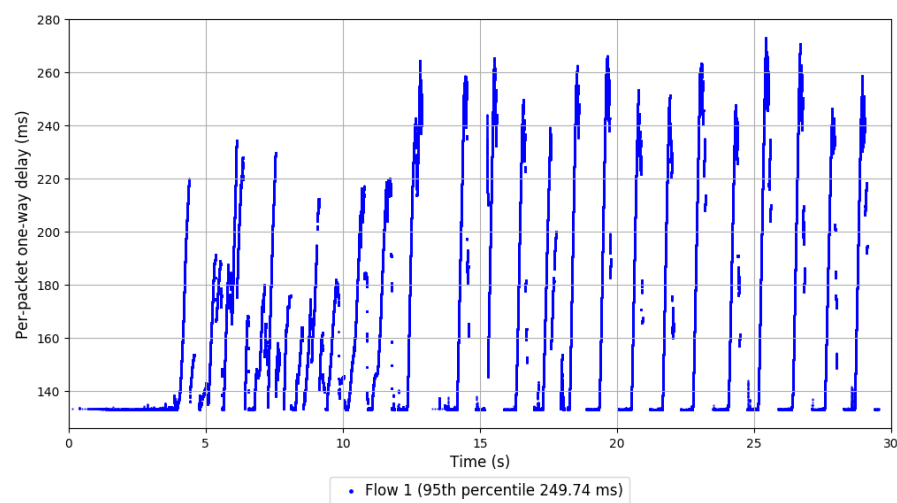
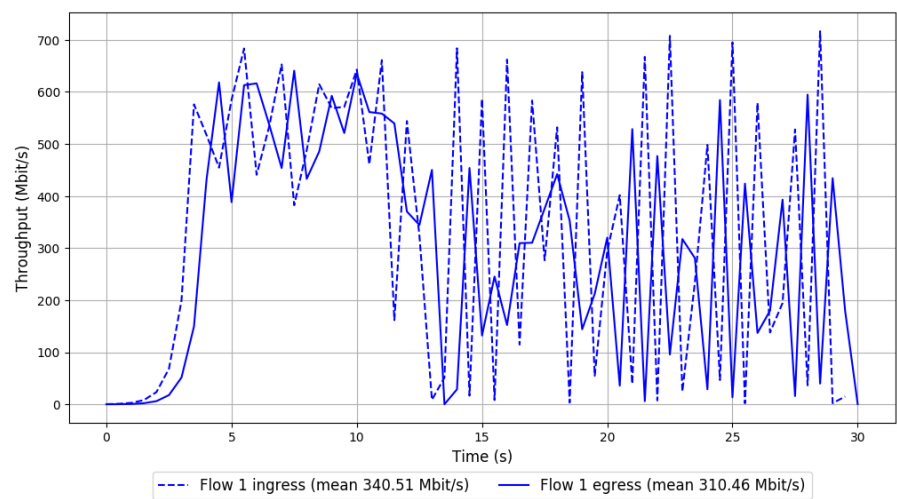


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 05:37:42  
End at: 2019-07-18 05:38:12  
Local clock offset: -0.08 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-07-18 08:16:00  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 310.46 Mbit/s  
95th percentile per-packet one-way delay: 249.735 ms  
Loss rate: 9.64%  
-- Flow 1:  
Average throughput: 310.46 Mbit/s  
95th percentile per-packet one-way delay: 249.735 ms  
Loss rate: 9.64%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link





Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-18 06:14:03

End at: 2019-07-18 06:14:33

Local clock offset: -0.032 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-07-18 08:16:00

# Datalink statistics

-- Total of 1 flow:

Average throughput: 266.28 Mbit/s

95th percentile per-packet one-way delay: 250.784 ms

Loss rate: 12.94%

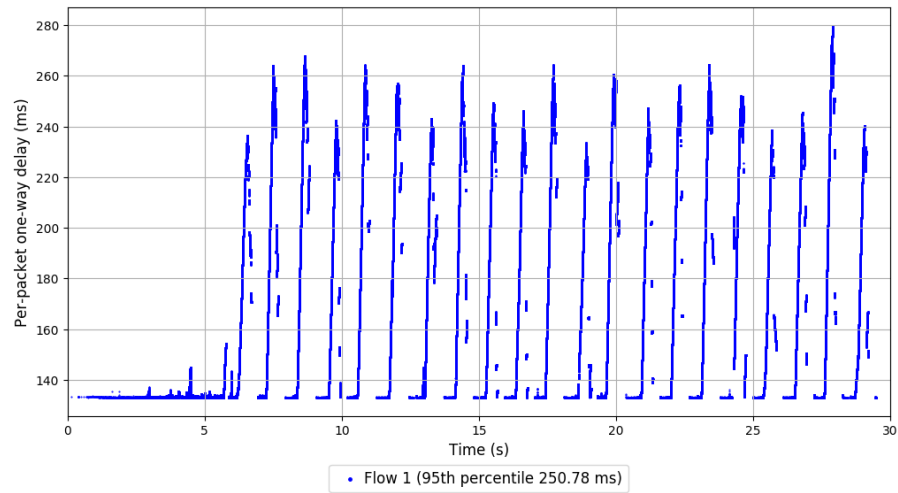
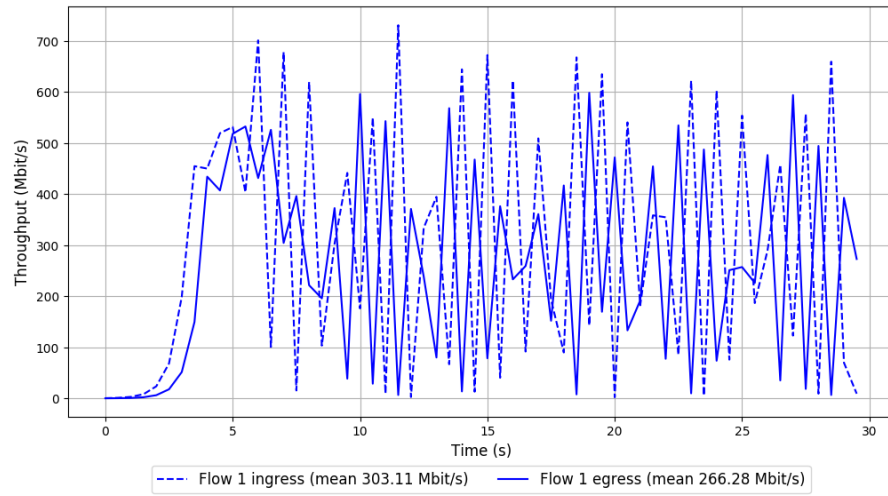
-- Flow 1:

Average throughput: 266.28 Mbit/s

95th percentile per-packet one-way delay: 250.784 ms

Loss rate: 12.94%

## Run 5: Report of Muses\_DecisionTreeH0 — Data Link

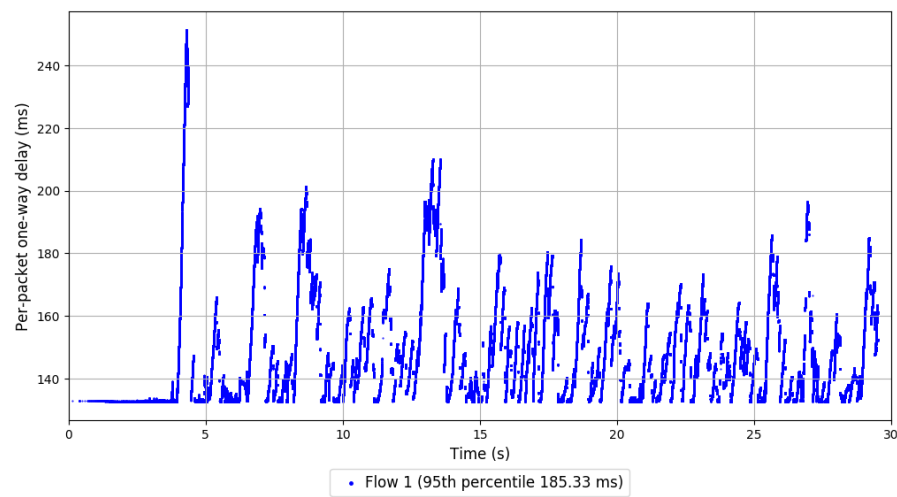
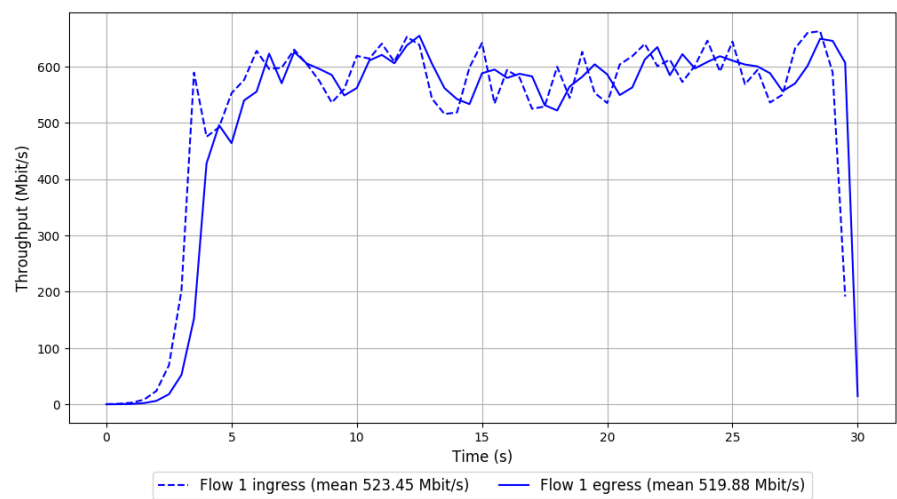


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-07-18 03:47:42
End at: 2019-07-18 03:48:12
Local clock offset: 0.199 ms
Remote clock offset: -0.094 ms

# Below is generated by plot.py at 2019-07-18 08:19:08
# Datalink statistics
-- Total of 1 flow:
Average throughput: 519.88 Mbit/s
95th percentile per-packet one-way delay: 185.332 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 519.88 Mbit/s
95th percentile per-packet one-way delay: 185.332 ms
Loss rate: 1.57%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

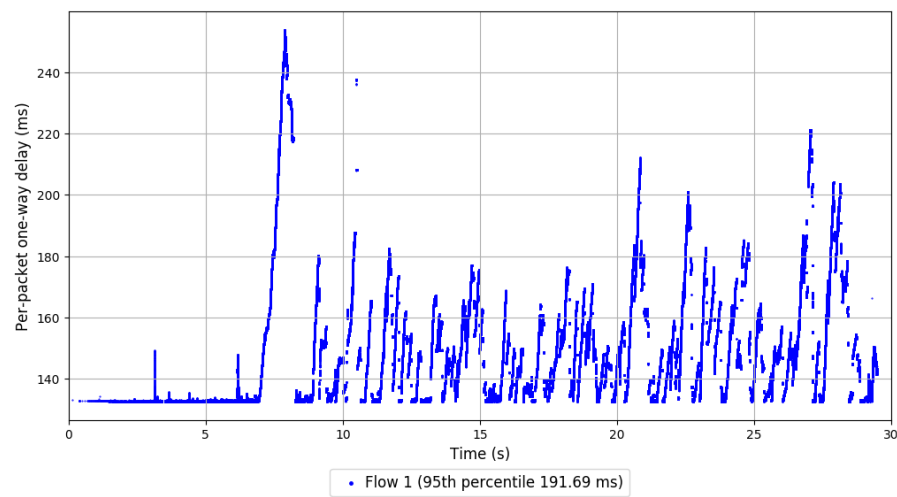
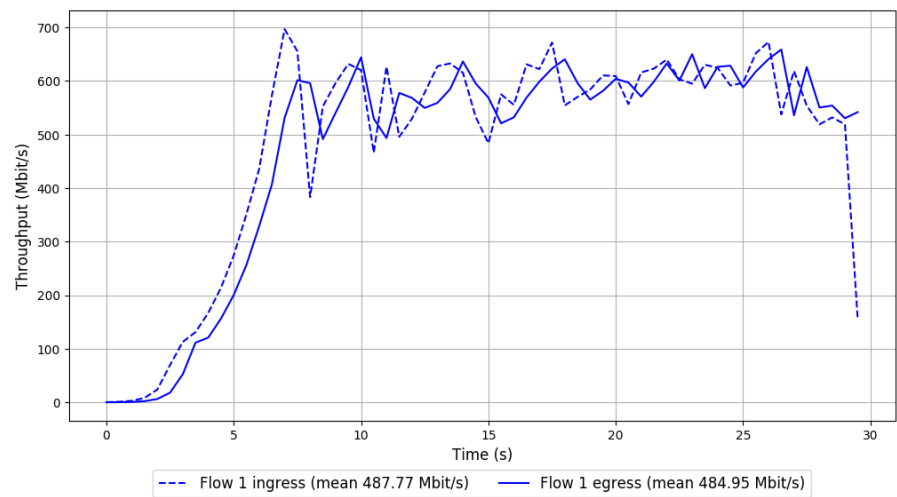


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 04:23:47  
End at: 2019-07-18 04:24:17  
Local clock offset: -0.278 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-07-18 08:19:57  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 484.95 Mbit/s  
95th percentile per-packet one-way delay: 191.695 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 484.95 Mbit/s  
95th percentile per-packet one-way delay: 191.695 ms  
Loss rate: 1.47%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

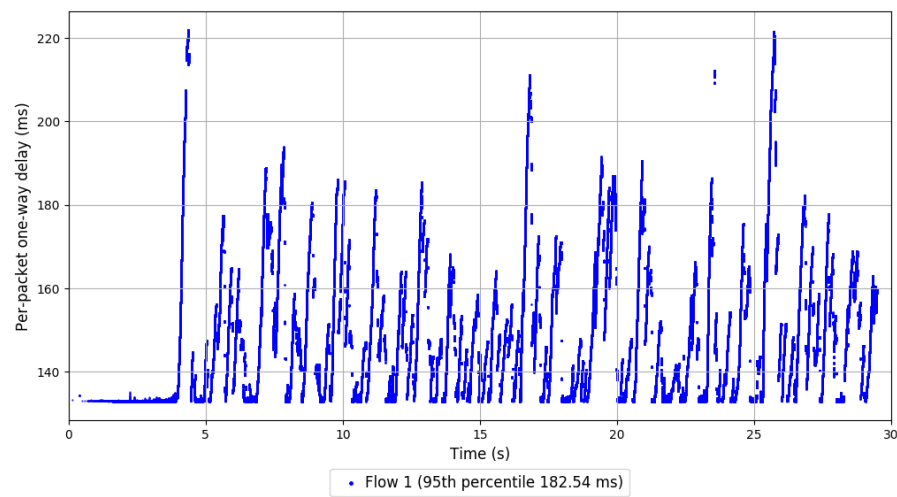
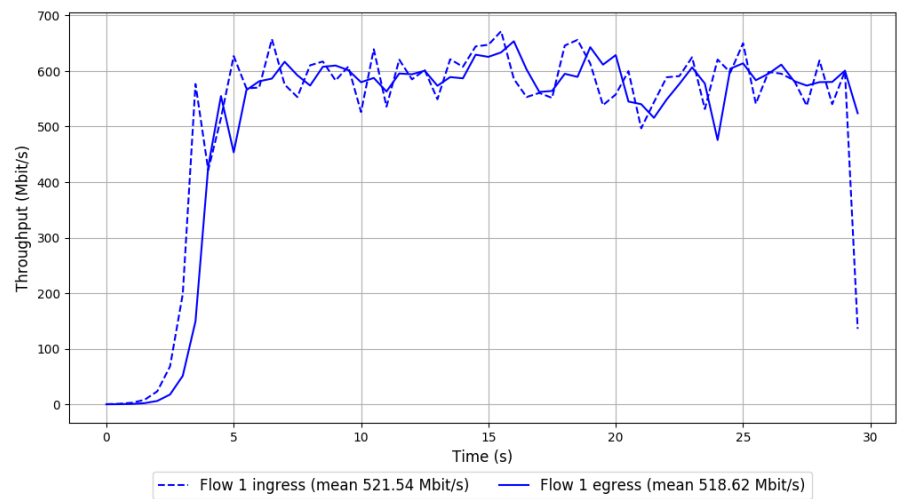


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 05:00:04  
End at: 2019-07-18 05:00:34  
Local clock offset: -0.327 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-07-18 08:21:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 518.62 Mbit/s  
95th percentile per-packet one-way delay: 182.542 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 518.62 Mbit/s  
95th percentile per-packet one-way delay: 182.542 ms  
Loss rate: 1.45%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



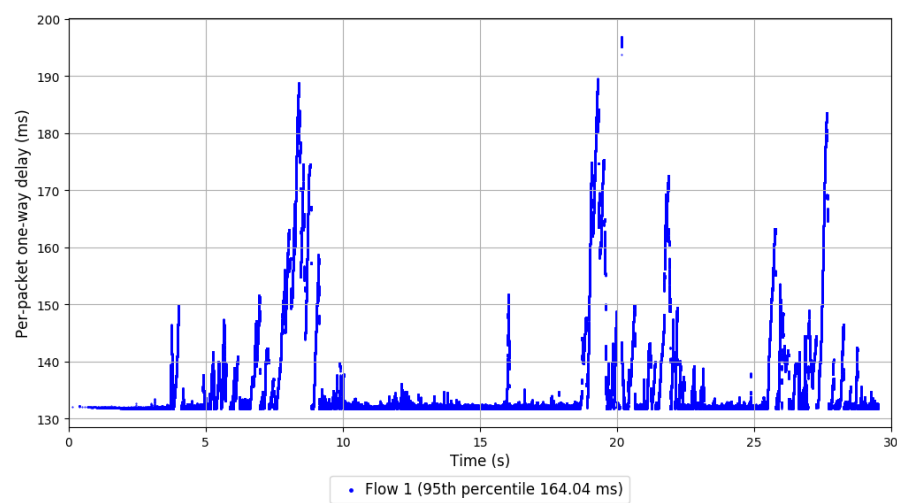
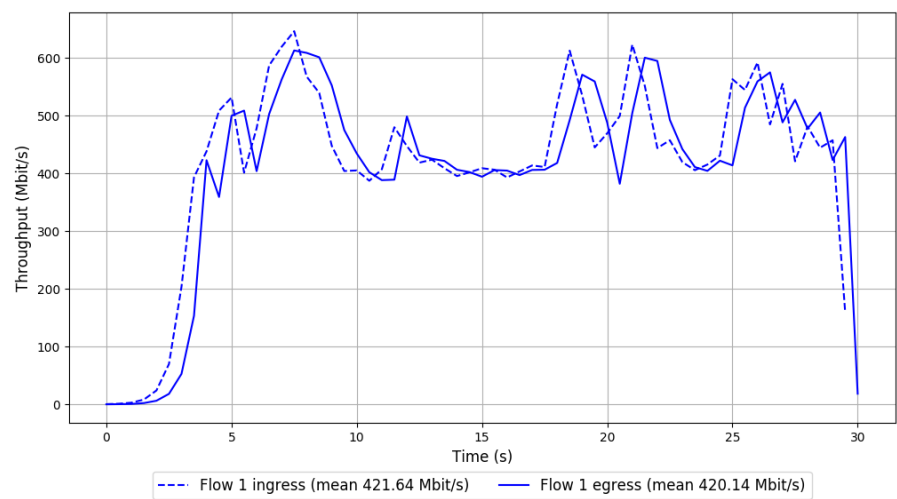


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 05:36:07  
End at: 2019-07-18 05:36:37  
Local clock offset: -0.341 ms  
Remote clock offset: -0.148 ms

# Below is generated by plot.py at 2019-07-18 08:21:28  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 420.14 Mbit/s  
95th percentile per-packet one-way delay: 164.041 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 420.14 Mbit/s  
95th percentile per-packet one-way delay: 164.041 ms  
Loss rate: 1.25%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

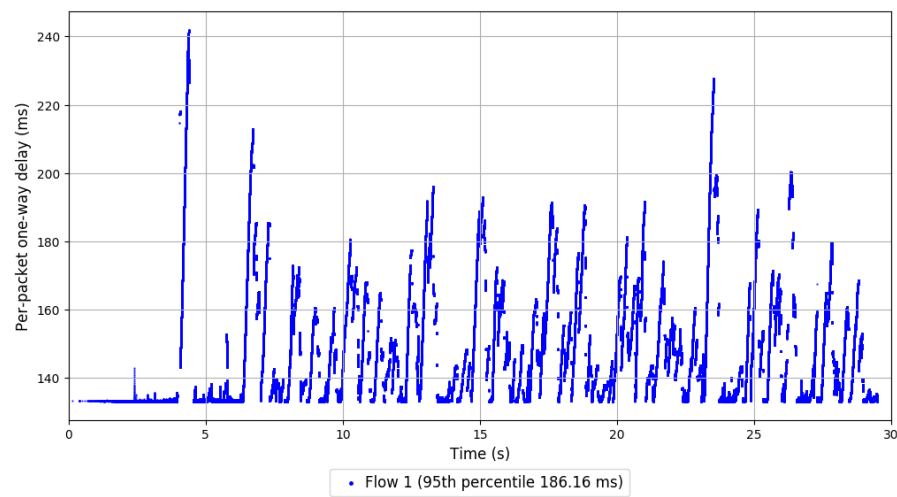
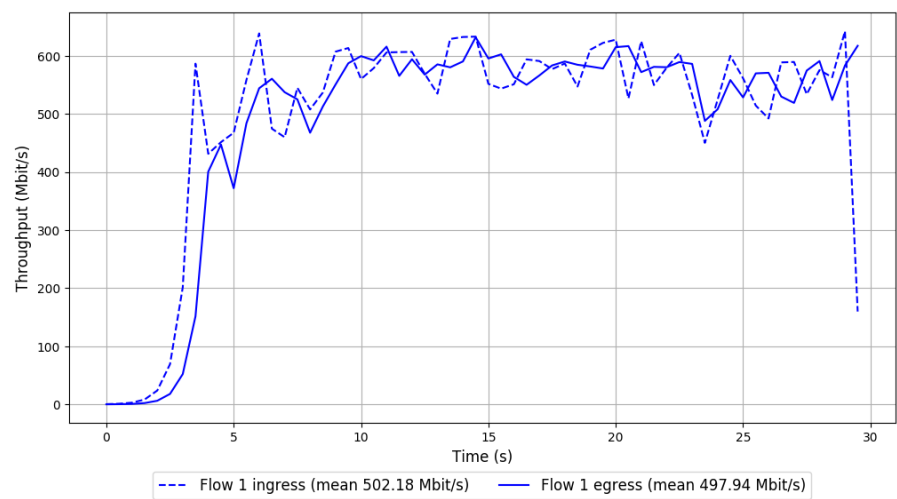


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-18 06:12:23  
End at: 2019-07-18 06:12:53  
Local clock offset: 0.279 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-07-18 08:23:56  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 497.94 Mbit/s  
95th percentile per-packet one-way delay: 186.157 ms  
Loss rate: 1.74%  
-- Flow 1:  
Average throughput: 497.94 Mbit/s  
95th percentile per-packet one-way delay: 186.157 ms  
Loss rate: 1.74%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-07-18 04:17:22

End at: 2019-07-18 04:17:52

Local clock offset: -0.444 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-07-18 08:26:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 344.21 Mbit/s

95th percentile per-packet one-way delay: 163.591 ms

Loss rate: 1.96%

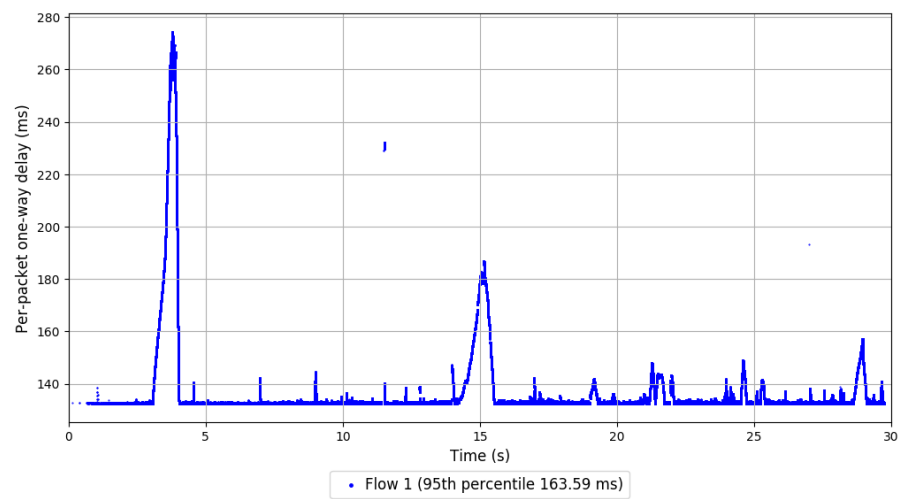
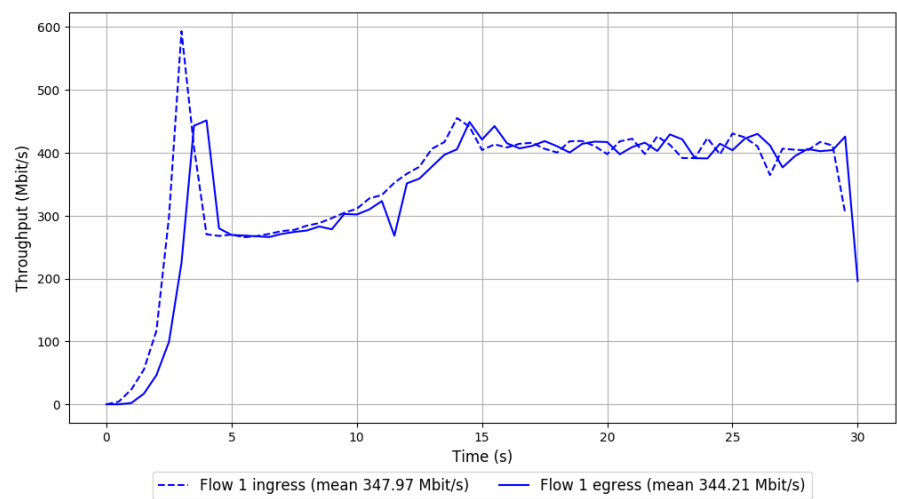
-- Flow 1:

Average throughput: 344.21 Mbit/s

95th percentile per-packet one-way delay: 163.591 ms

Loss rate: 1.96%

Run 1: Report of PCC-Allegro — Data Link

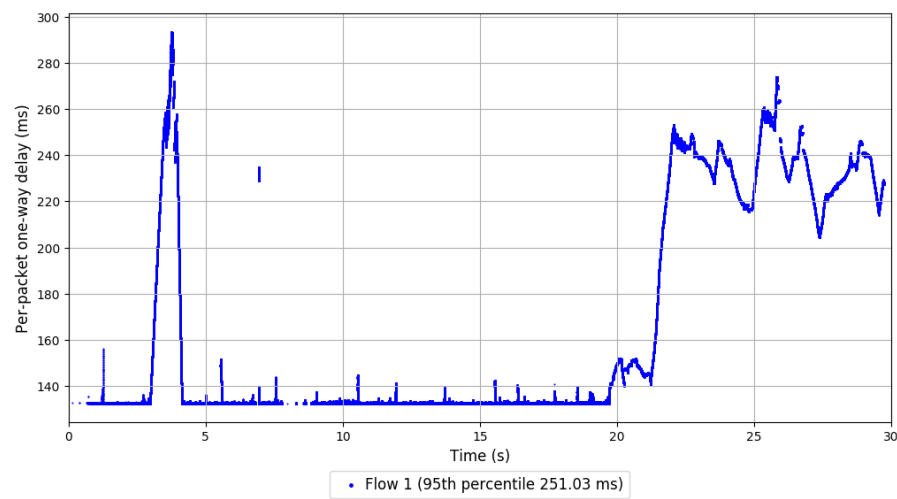
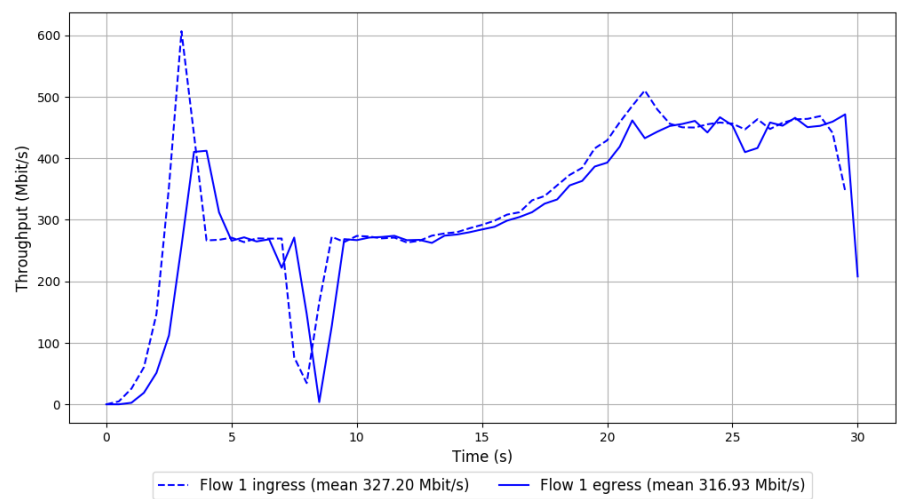


Run 2: Statistics of PCC-Allegro

Start at: 2019-07-18 04:53:51  
End at: 2019-07-18 04:54:21  
Local clock offset: -0.501 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-07-18 08:26:48  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 316.93 Mbit/s  
95th percentile per-packet one-way delay: 251.033 ms  
Loss rate: 4.01%  
-- Flow 1:  
Average throughput: 316.93 Mbit/s  
95th percentile per-packet one-way delay: 251.033 ms  
Loss rate: 4.01%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-07-18 05:29:58

End at: 2019-07-18 05:30:28

Local clock offset: -0.108 ms

Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-07-18 08:26:48

# Datalink statistics

-- Total of 1 flow:

Average throughput: 286.07 Mbit/s

95th percentile per-packet one-way delay: 261.963 ms

Loss rate: 8.03%

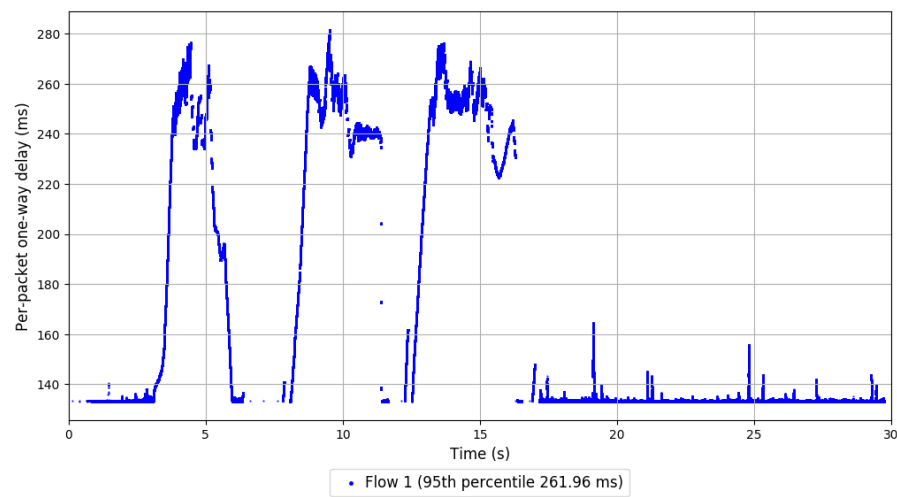
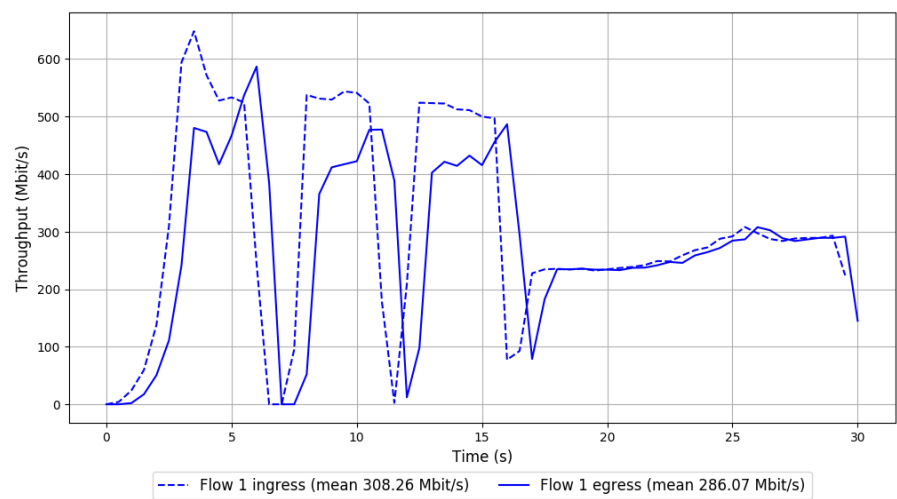
-- Flow 1:

Average throughput: 286.07 Mbit/s

95th percentile per-packet one-way delay: 261.963 ms

Loss rate: 8.03%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-07-18 06:06:08

End at: 2019-07-18 06:06:38

Local clock offset: 0.03 ms

Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-07-18 08:31:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 329.10 Mbit/s

95th percentile per-packet one-way delay: 233.074 ms

Loss rate: 2.51%

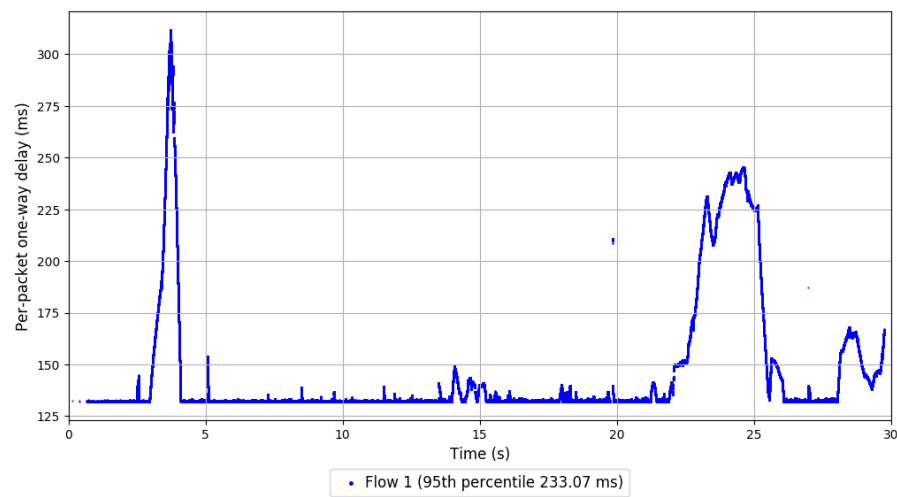
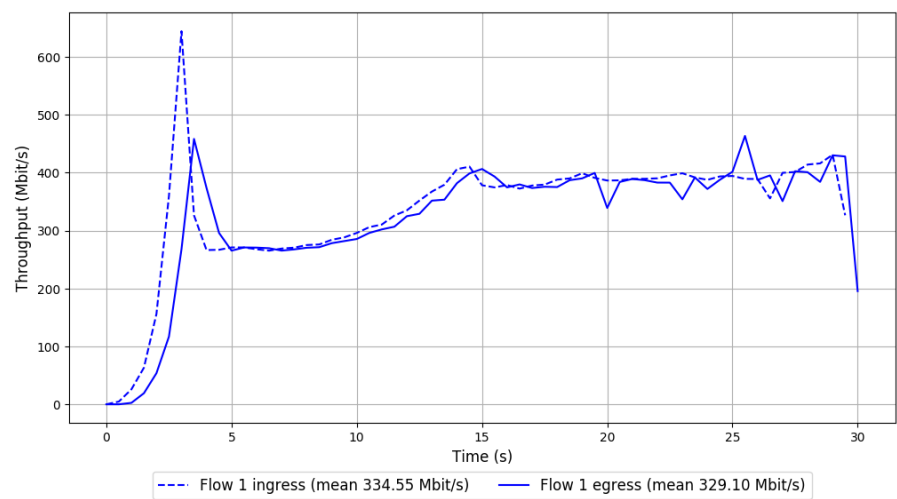
-- Flow 1:

Average throughput: 329.10 Mbit/s

95th percentile per-packet one-way delay: 233.074 ms

Loss rate: 2.51%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-07-18 06:42:18

End at: 2019-07-18 06:42:48

Local clock offset: 0.33 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-07-18 08:34:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 346.49 Mbit/s

95th percentile per-packet one-way delay: 153.132 ms

Loss rate: 1.50%

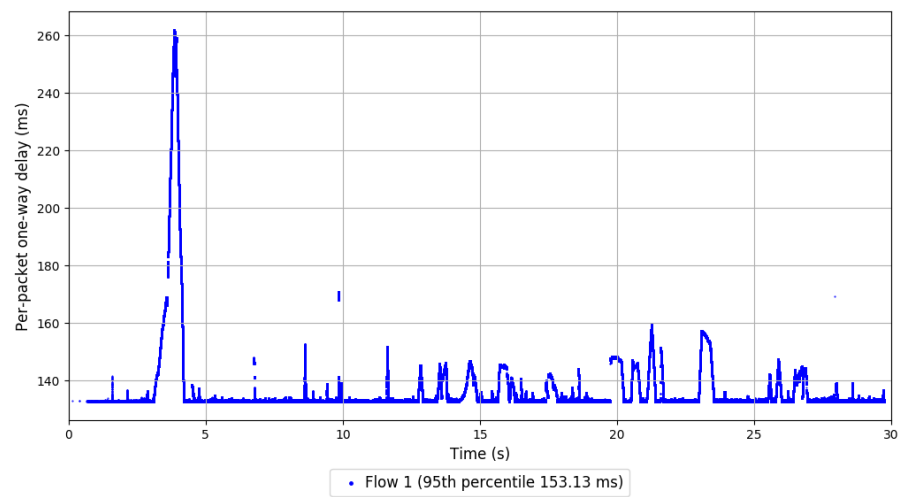
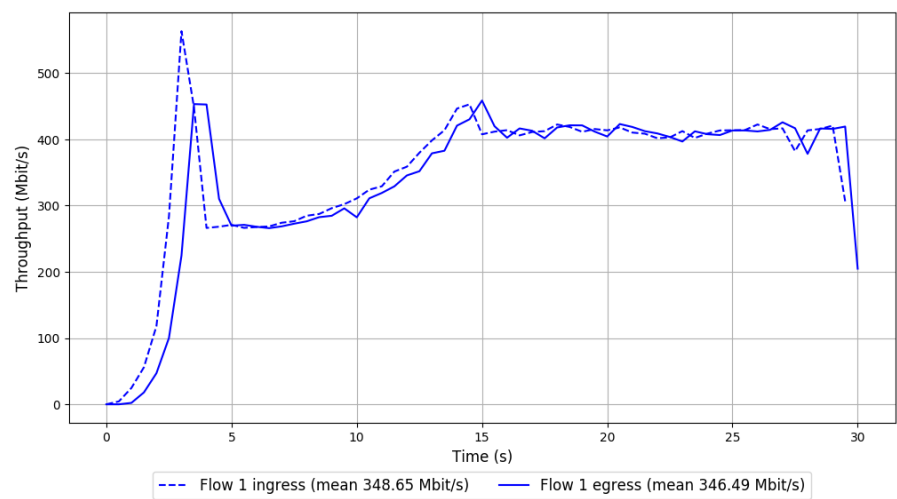
-- Flow 1:

Average throughput: 346.49 Mbit/s

95th percentile per-packet one-way delay: 153.132 ms

Loss rate: 1.50%

Run 5: Report of PCC-Allegro — Data Link

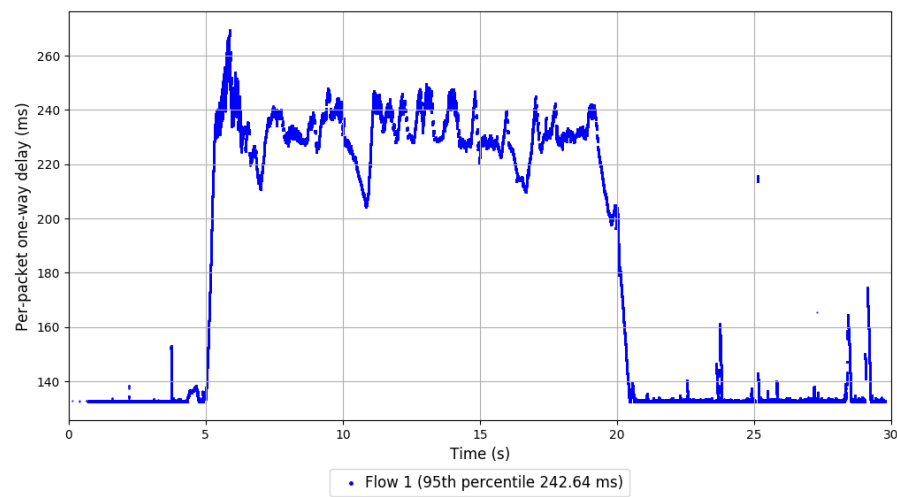
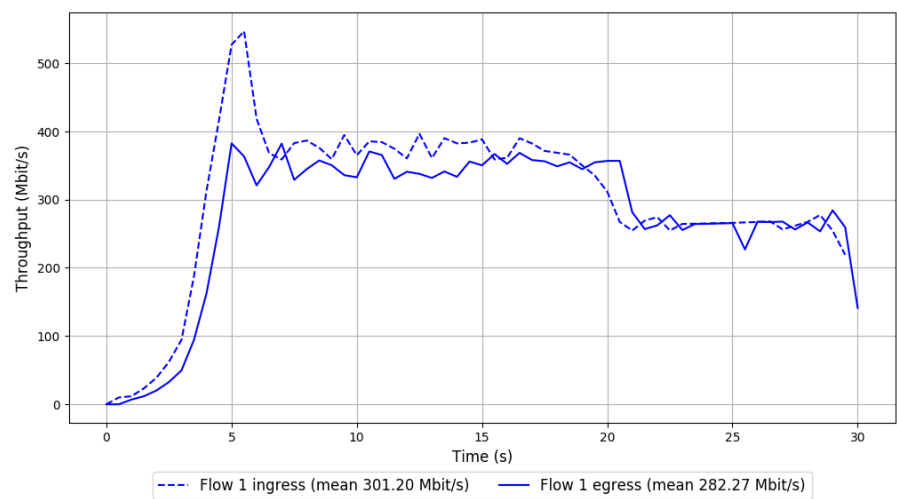


Run 1: Statistics of PCC-Expr

Start at: 2019-07-18 04:09:33  
End at: 2019-07-18 04:10:03  
Local clock offset: -0.45 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-07-18 08:34:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 282.27 Mbit/s  
95th percentile per-packet one-way delay: 242.640 ms  
Loss rate: 7.12%  
-- Flow 1:  
Average throughput: 282.27 Mbit/s  
95th percentile per-packet one-way delay: 242.640 ms  
Loss rate: 7.12%

Run 1: Report of PCC-Expr — Data Link



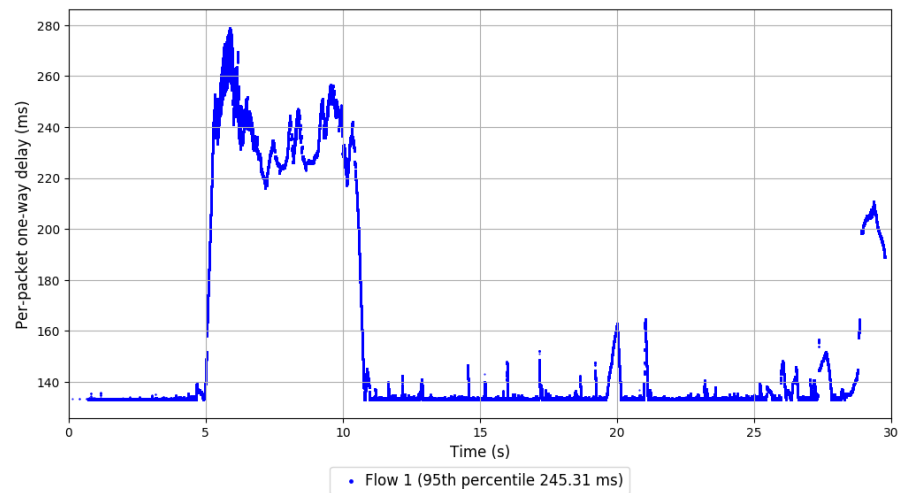
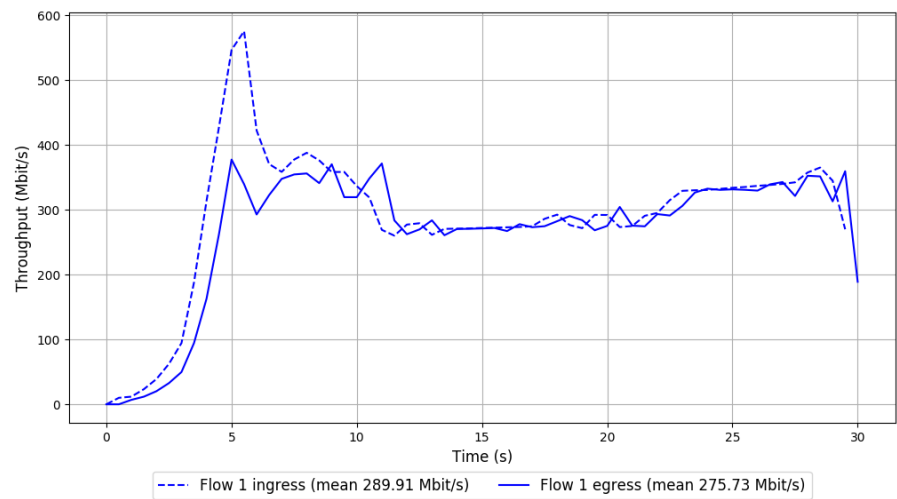


Run 2: Statistics of PCC-Expr

Start at: 2019-07-18 04:46:00  
End at: 2019-07-18 04:46:30  
Local clock offset: 0.146 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-07-18 08:34:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 275.73 Mbit/s  
95th percentile per-packet one-way delay: 245.310 ms  
Loss rate: 5.74%  
-- Flow 1:  
Average throughput: 275.73 Mbit/s  
95th percentile per-packet one-way delay: 245.310 ms  
Loss rate: 5.74%

Run 2: Report of PCC-Expr — Data Link

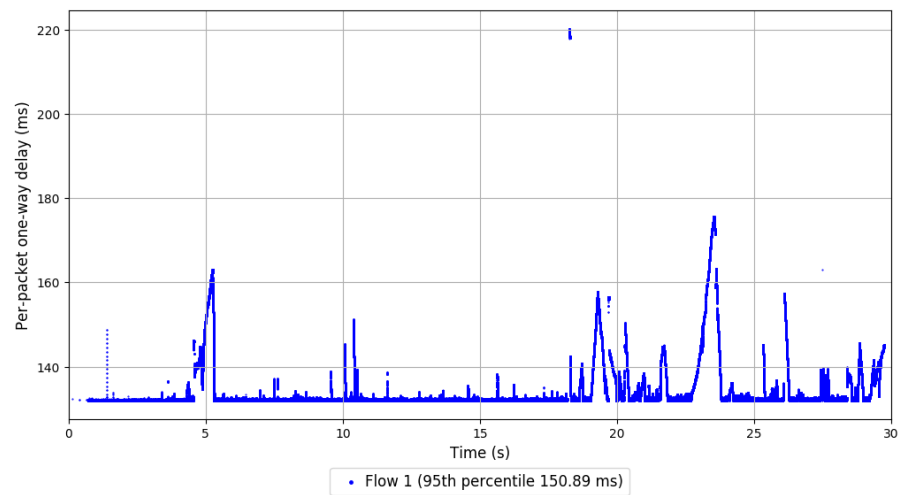
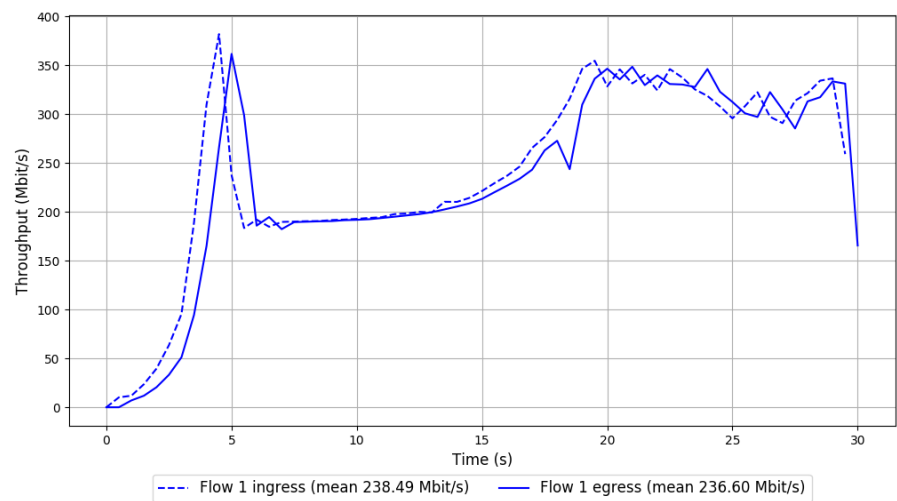


Run 3: Statistics of PCC-Expr

Start at: 2019-07-18 05:22:08  
End at: 2019-07-18 05:22:38  
Local clock offset: -0.113 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-07-18 08:34:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 236.60 Mbit/s  
95th percentile per-packet one-way delay: 150.889 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 236.60 Mbit/s  
95th percentile per-packet one-way delay: 150.889 ms  
Loss rate: 1.67%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2019-07-18 05:58:24

End at: 2019-07-18 05:58:54

Local clock offset: 0.413 ms

Remote clock offset: -0.109 ms

# Below is generated by plot.py at 2019-07-18 08:35:22

# Datalink statistics

-- Total of 1 flow:

Average throughput: 226.53 Mbit/s

95th percentile per-packet one-way delay: 171.044 ms

Loss rate: 1.08%

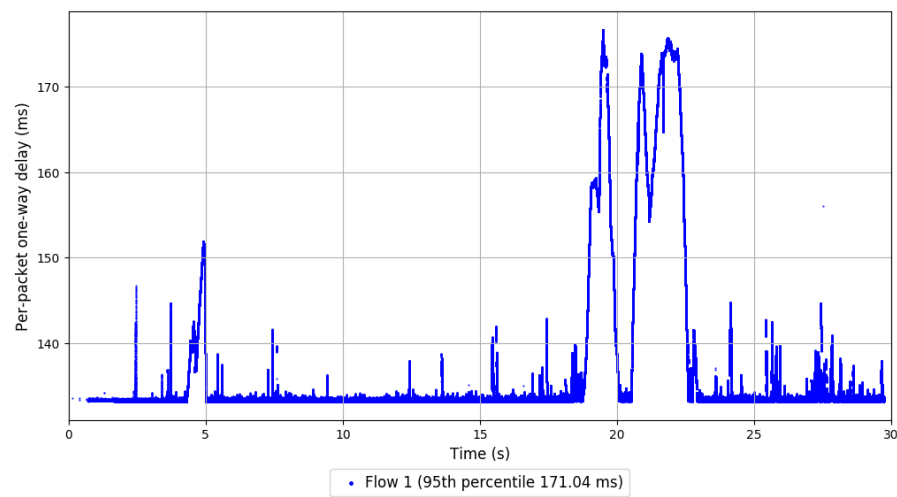
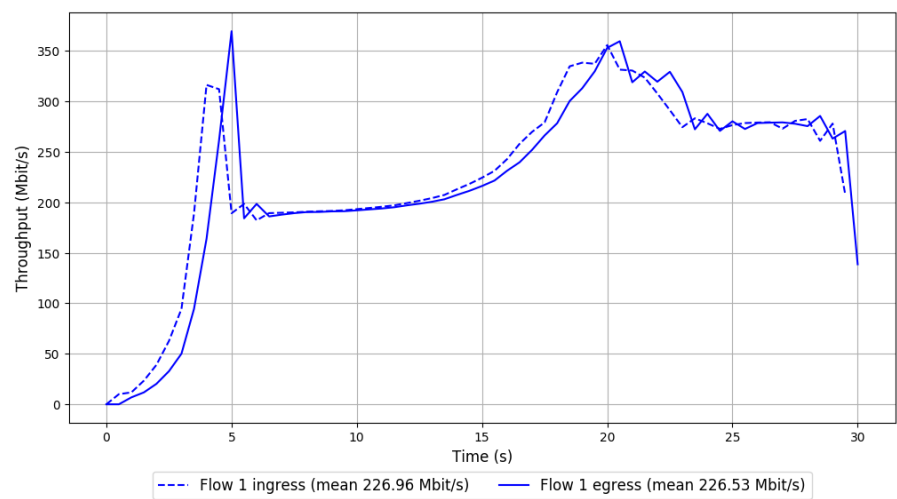
-- Flow 1:

Average throughput: 226.53 Mbit/s

95th percentile per-packet one-way delay: 171.044 ms

Loss rate: 1.08%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-18 06:34:31

End at: 2019-07-18 06:35:02

Local clock offset: 0.192 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-07-18 08:36:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 235.53 Mbit/s

95th percentile per-packet one-way delay: 182.885 ms

Loss rate: 2.00%

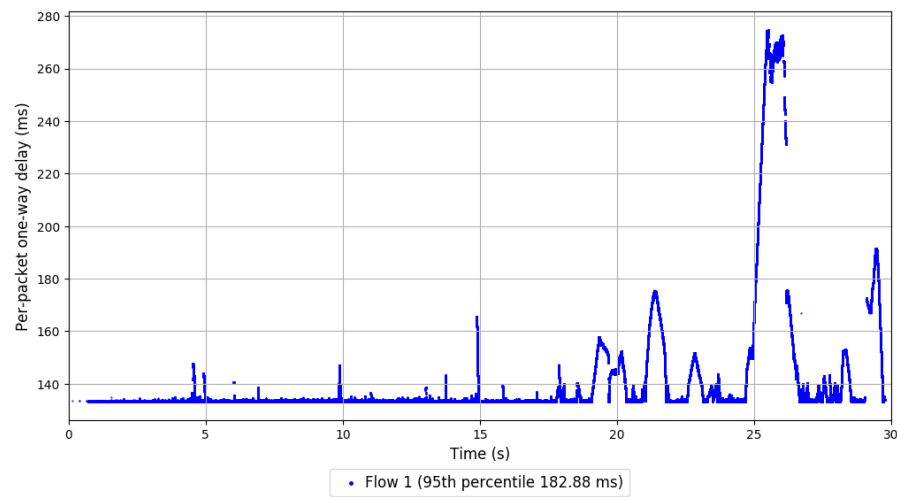
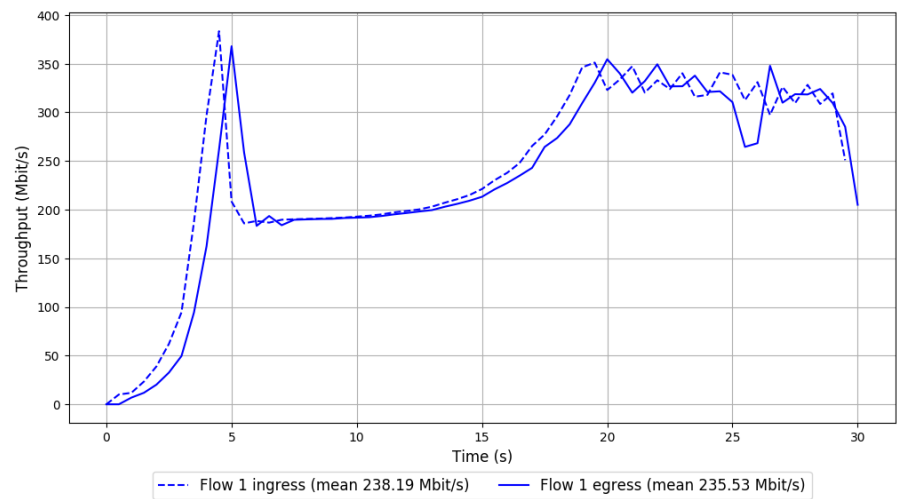
-- Flow 1:

Average throughput: 235.53 Mbit/s

95th percentile per-packet one-way delay: 182.885 ms

Loss rate: 2.00%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-07-18 03:53:26

End at: 2019-07-18 03:53:56

Local clock offset: 0.366 ms

Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-07-18 08:36:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 54.83 Mbit/s

95th percentile per-packet one-way delay: 133.564 ms

Loss rate: 1.33%

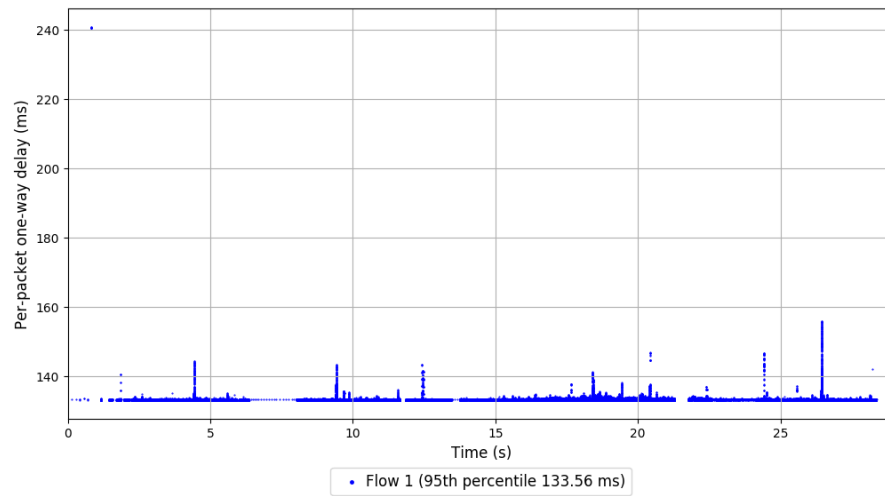
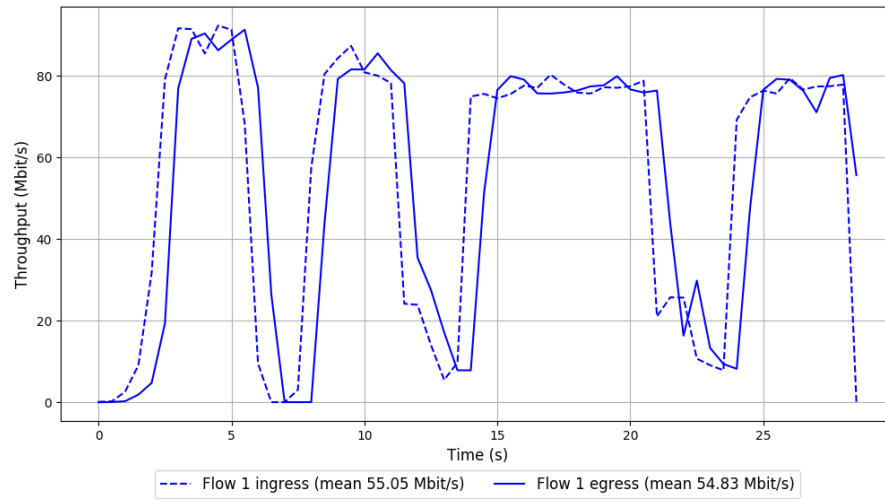
-- Flow 1:

Average throughput: 54.83 Mbit/s

95th percentile per-packet one-way delay: 133.564 ms

Loss rate: 1.33%

# Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2019-07-18 04:29:46

End at: 2019-07-18 04:30:16

Local clock offset: -0.217 ms

Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-07-18 08:36:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 133.004 ms

Loss rate: 1.43%

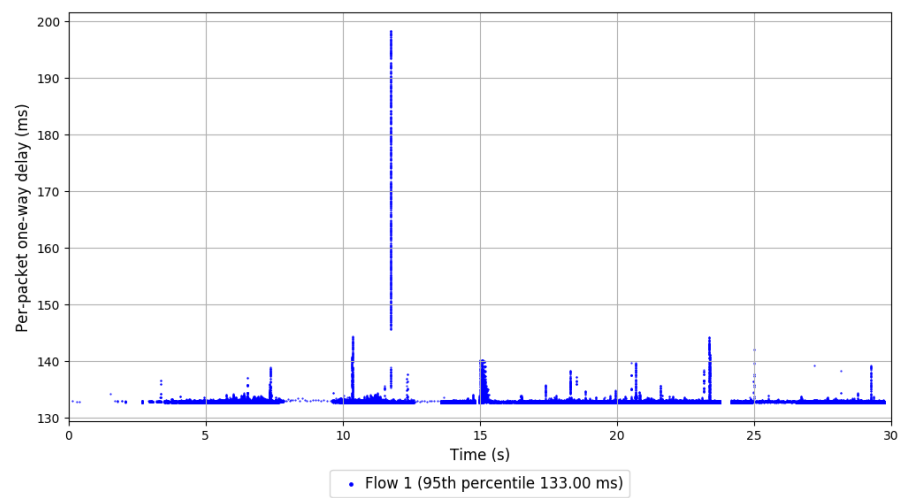
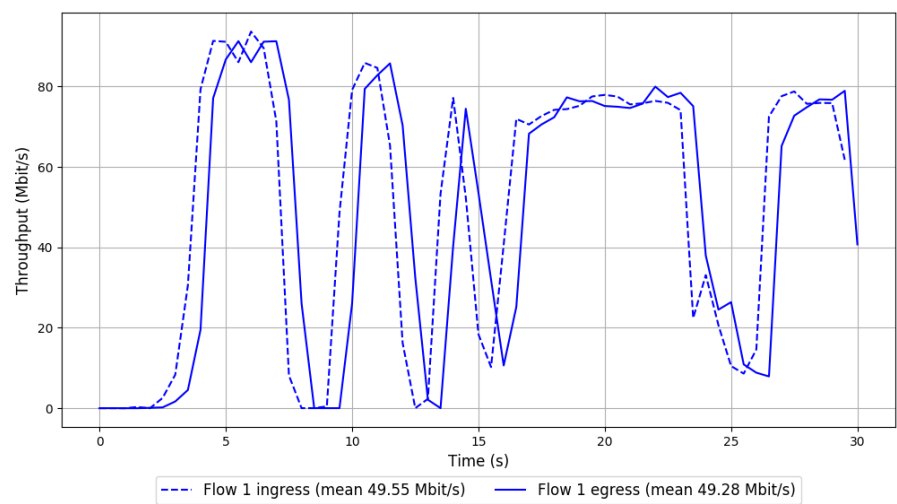
-- Flow 1:

Average throughput: 49.28 Mbit/s

95th percentile per-packet one-way delay: 133.004 ms

Loss rate: 1.43%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-07-18 05:06:12

End at: 2019-07-18 05:06:42

Local clock offset: -0.055 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-07-18 08:36:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 132.939 ms

Loss rate: 1.32%

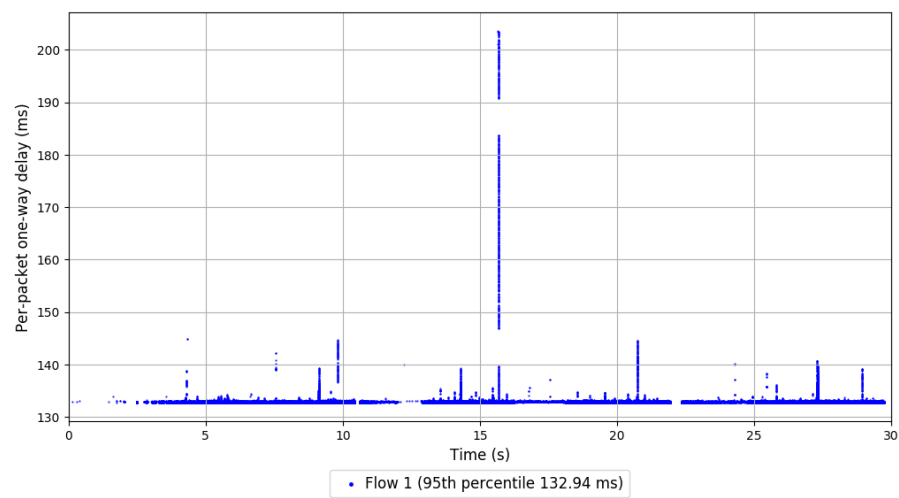
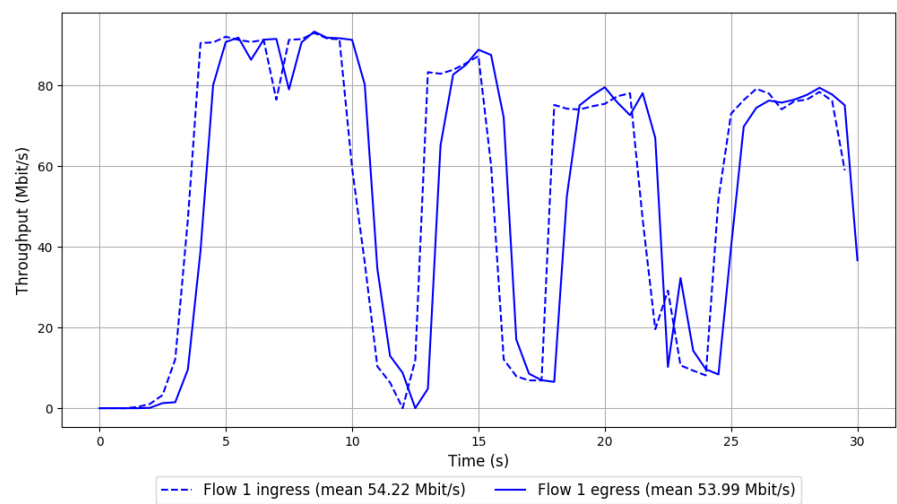
-- Flow 1:

Average throughput: 53.99 Mbit/s

95th percentile per-packet one-way delay: 132.939 ms

Loss rate: 1.32%

Run 3: Report of QUIC Cubic — Data Link

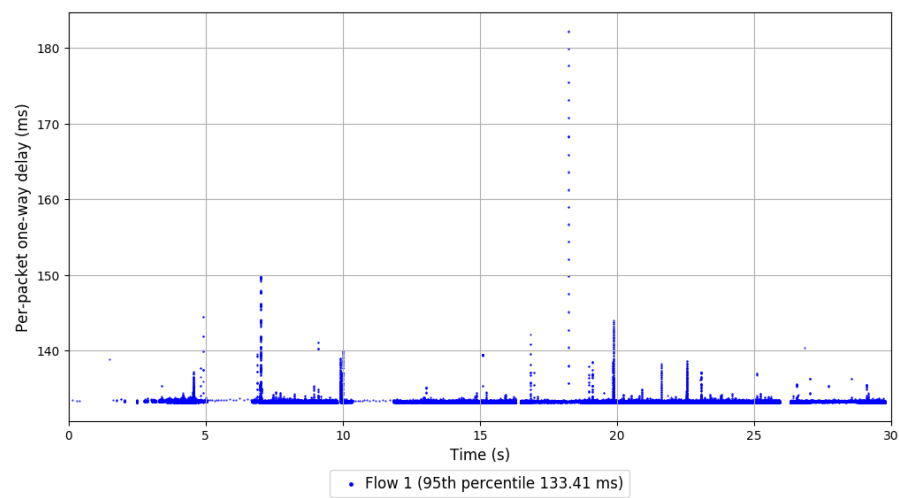
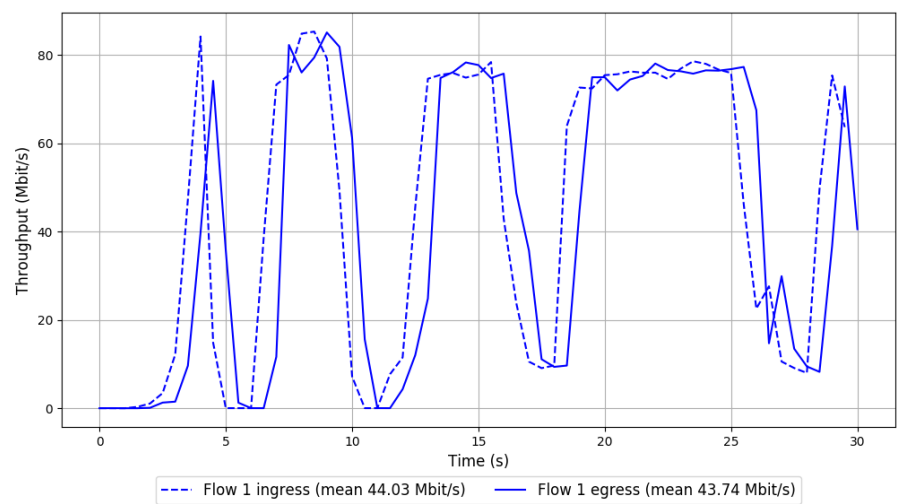


Run 4: Statistics of QUIC Cubic

Start at: 2019-07-18 05:42:09  
End at: 2019-07-18 05:42:39  
Local clock offset: -0.083 ms  
Remote clock offset: -0.564 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 43.74 Mbit/s  
95th percentile per-packet one-way delay: 133.405 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 43.74 Mbit/s  
95th percentile per-packet one-way delay: 133.405 ms  
Loss rate: 1.53%

Run 4: Report of QUIC Cubic — Data Link



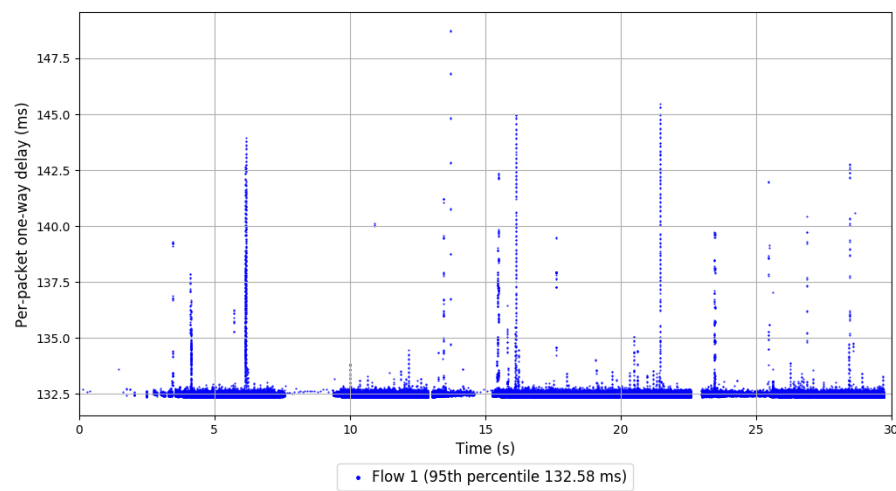
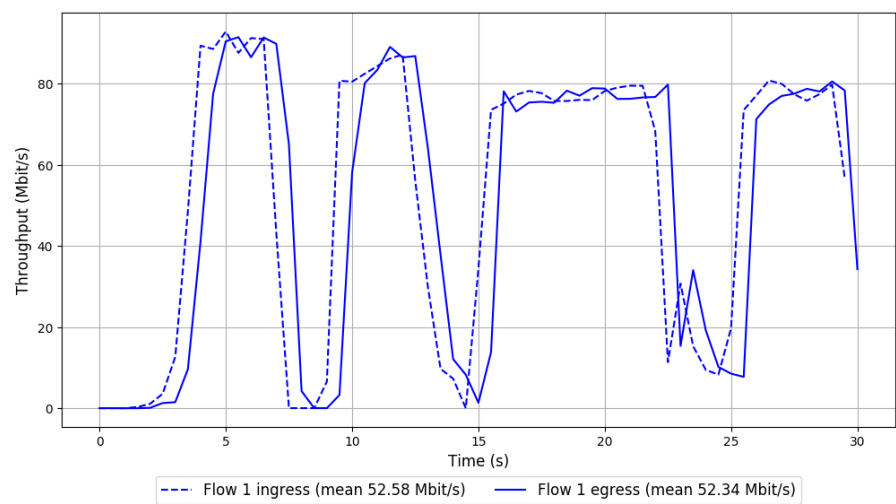


Run 5: Statistics of QUIC Cubic

Start at: 2019-07-18 06:18:26  
End at: 2019-07-18 06:18:56  
Local clock offset: -0.027 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 52.34 Mbit/s  
95th percentile per-packet one-way delay: 132.578 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 52.34 Mbit/s  
95th percentile per-packet one-way delay: 132.578 ms  
Loss rate: 1.34%

Run 5: Report of QUIC Cubic — Data Link

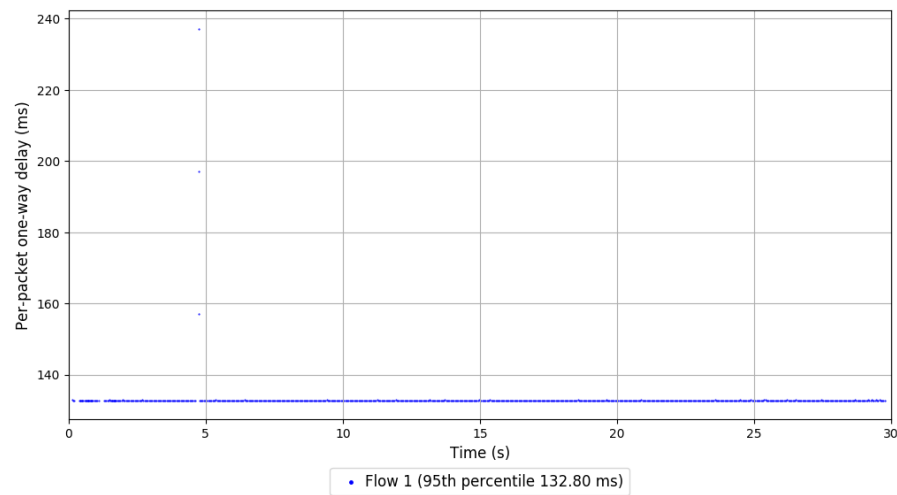
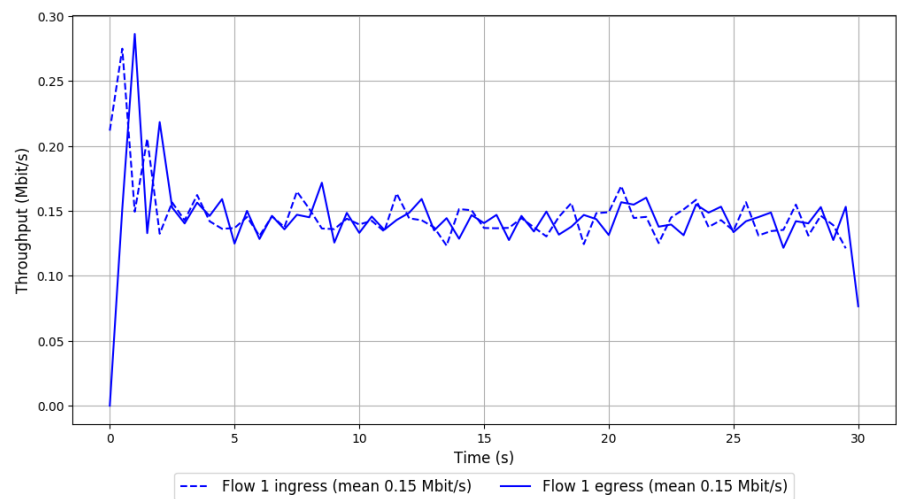


Run 1: Statistics of SCReAM

Start at: 2019-07-18 04:02:23  
End at: 2019-07-18 04:02:53  
Local clock offset: 0.107 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.802 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.802 ms  
Loss rate: 0.88%

Run 1: Report of SReAM — Data Link

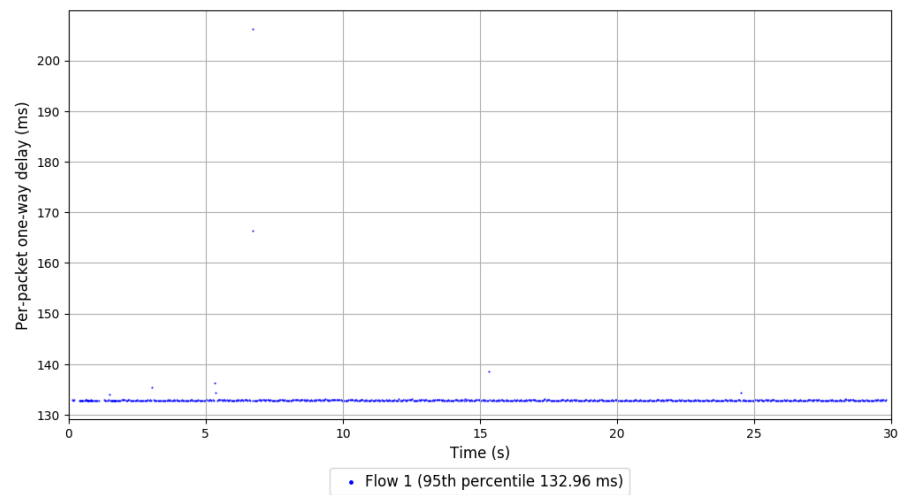
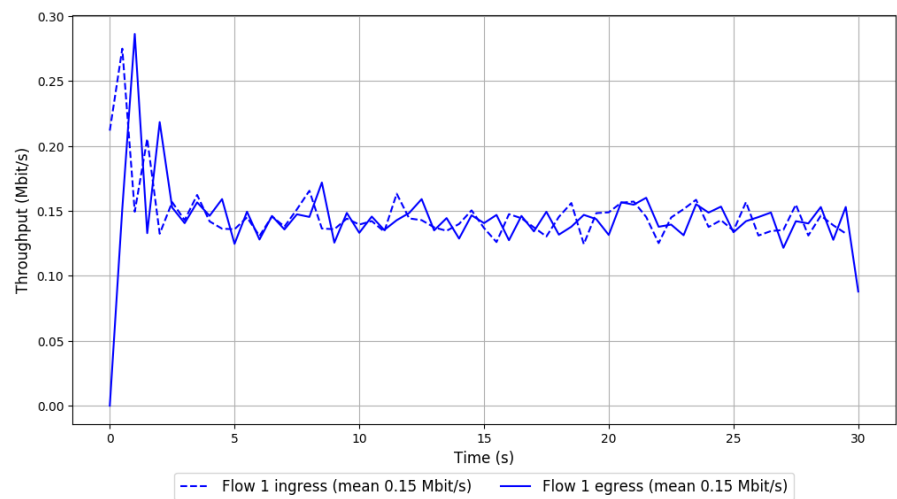


Run 2: Statistics of SCReAM

Start at: 2019-07-18 04:38:51  
End at: 2019-07-18 04:39:21  
Local clock offset: 0.312 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.959 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.959 ms  
Loss rate: 0.88%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-07-18 05:14:51

End at: 2019-07-18 05:15:21

Local clock offset: 0.125 ms

Remote clock offset: 0.243 ms

# Below is generated by plot.py at 2019-07-18 08:36:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.204 ms

Loss rate: 0.88%

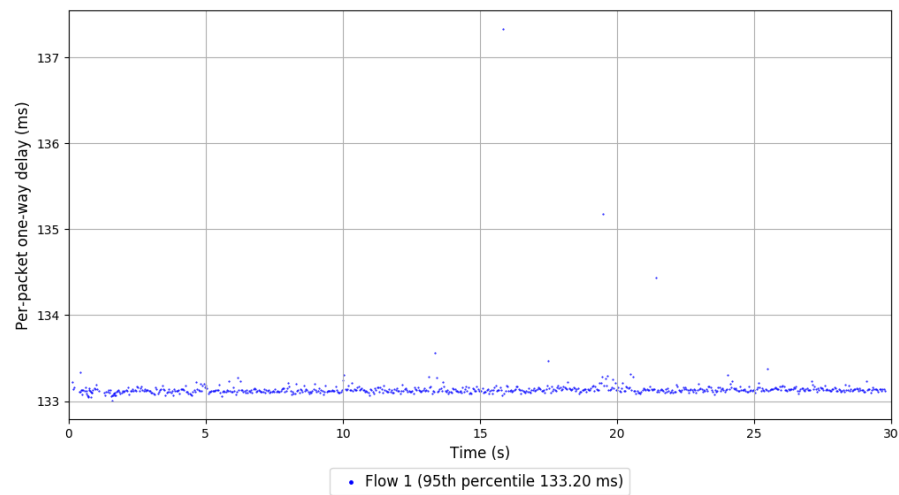
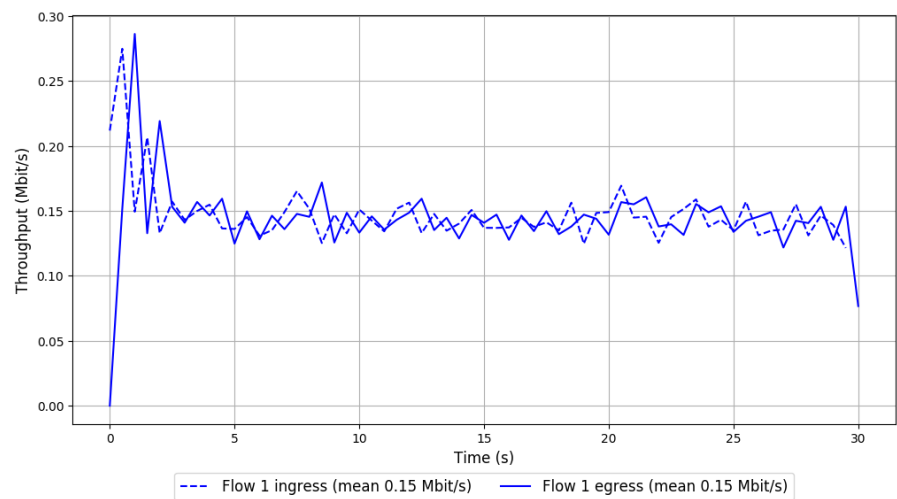
-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 133.204 ms

Loss rate: 0.88%

Run 3: Report of SReAM — Data Link



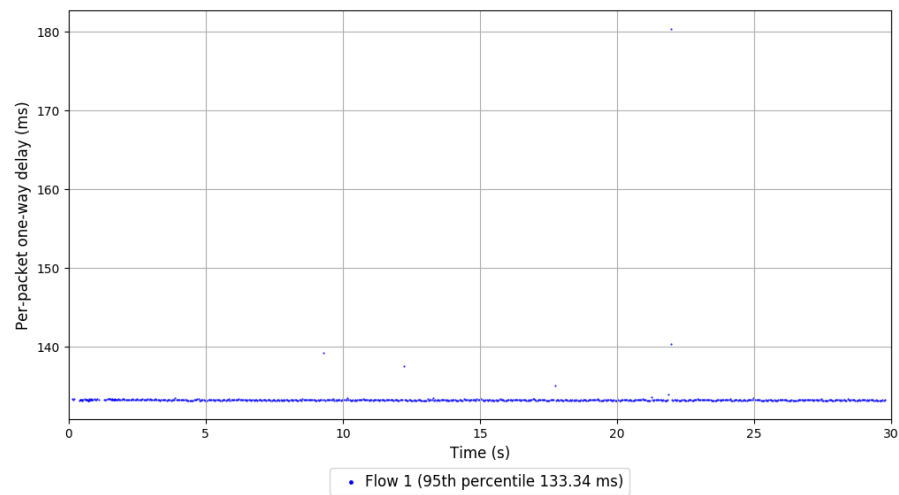
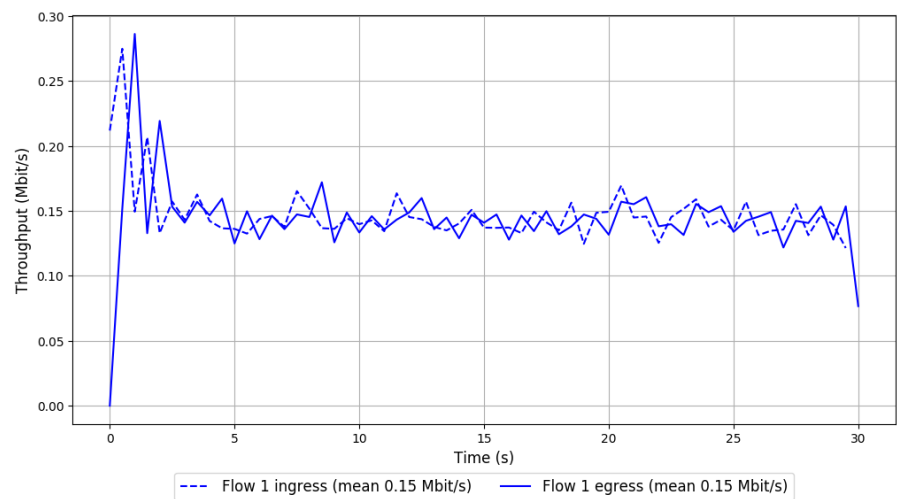


Run 4: Statistics of SCReAM

Start at: 2019-07-18 05:51:06  
End at: 2019-07-18 05:51:36  
Local clock offset: 0.068 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.335 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.335 ms  
Loss rate: 0.88%

Run 4: Report of SReAM — Data Link

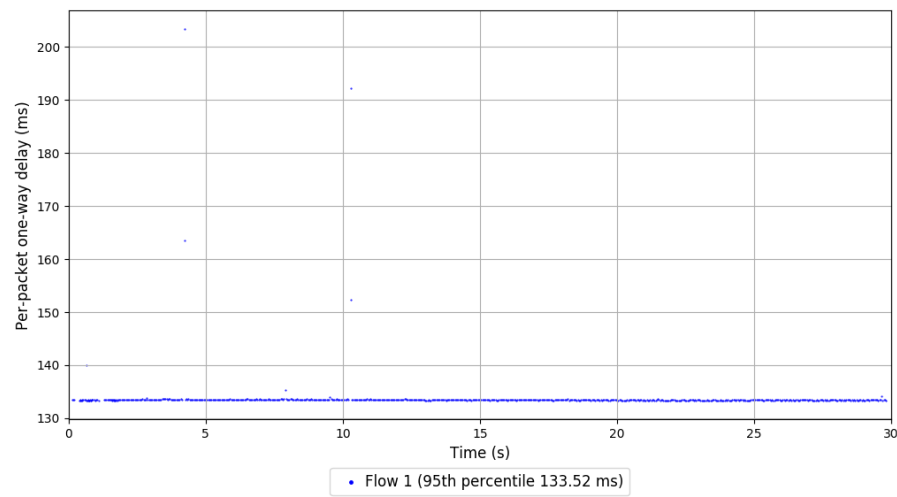
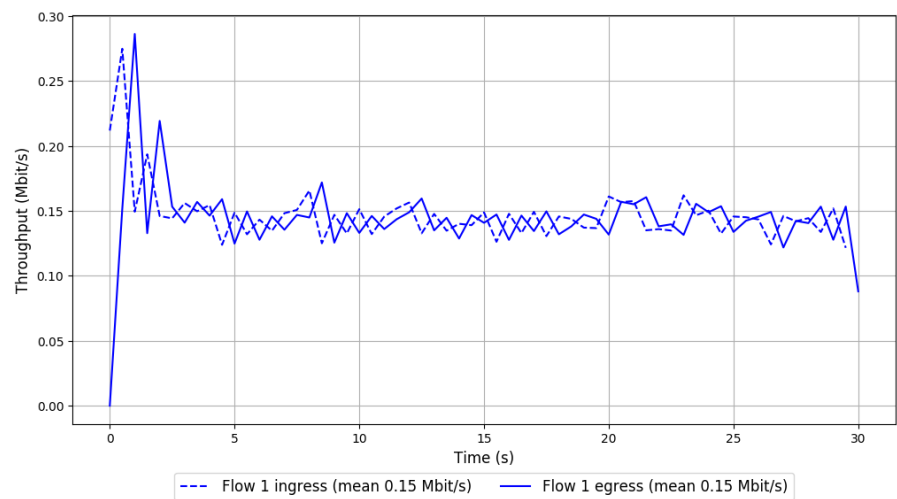


Run 5: Statistics of SCReAM

Start at: 2019-07-18 06:27:24  
End at: 2019-07-18 06:27:54  
Local clock offset: 0.332 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.522 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.522 ms  
Loss rate: 0.75%

Run 5: Report of SReAM — Data Link

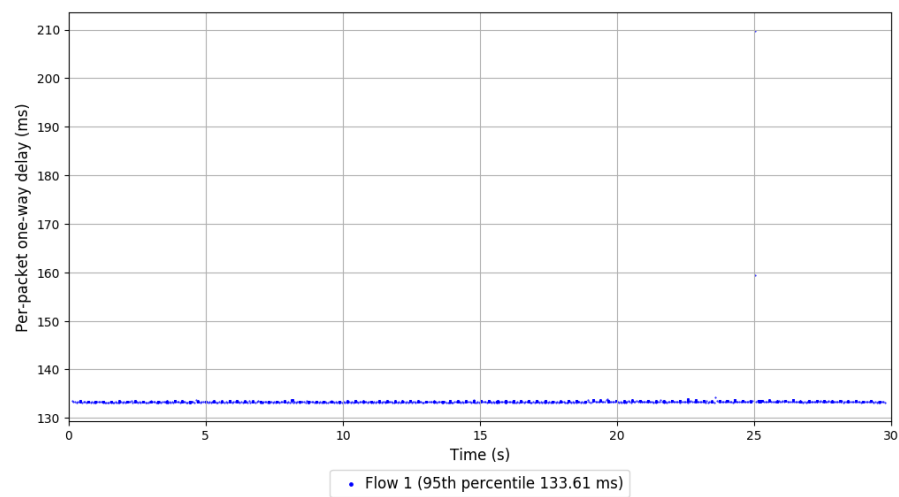
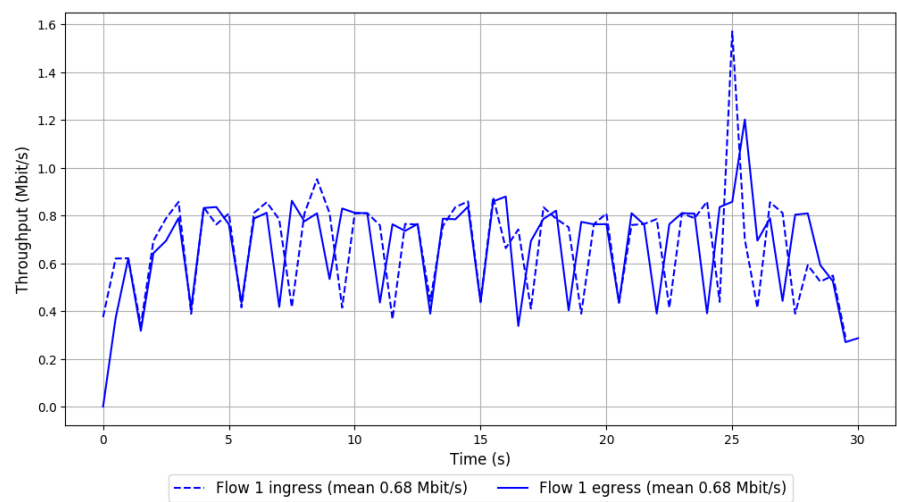


Run 1: Statistics of Sprout

Start at: 2019-07-18 03:50:51  
End at: 2019-07-18 03:51:21  
Local clock offset: -0.095 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.613 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.613 ms  
Loss rate: 0.70%

Run 1: Report of Sprout — Data Link

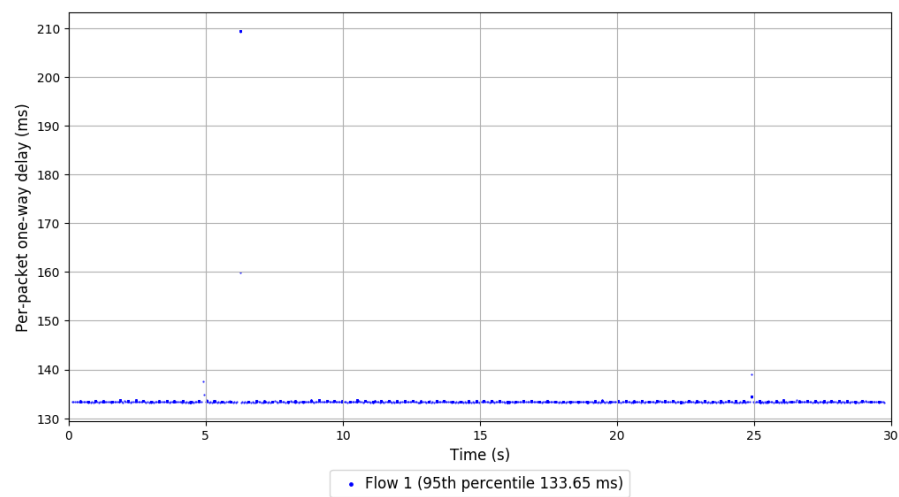
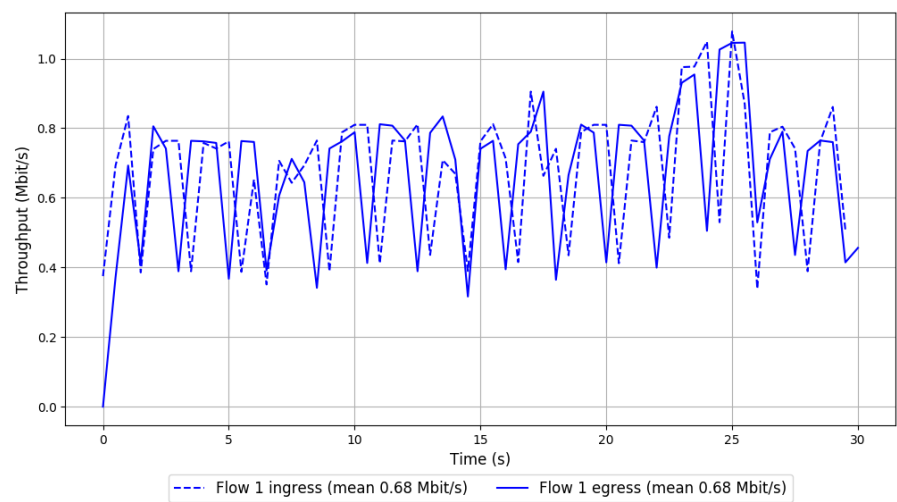


Run 2: Statistics of Sprout

Start at: 2019-07-18 04:26:51  
End at: 2019-07-18 04:27:21  
Local clock offset: 0.251 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.653 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.653 ms  
Loss rate: 1.23%

Run 2: Report of Sprout — Data Link



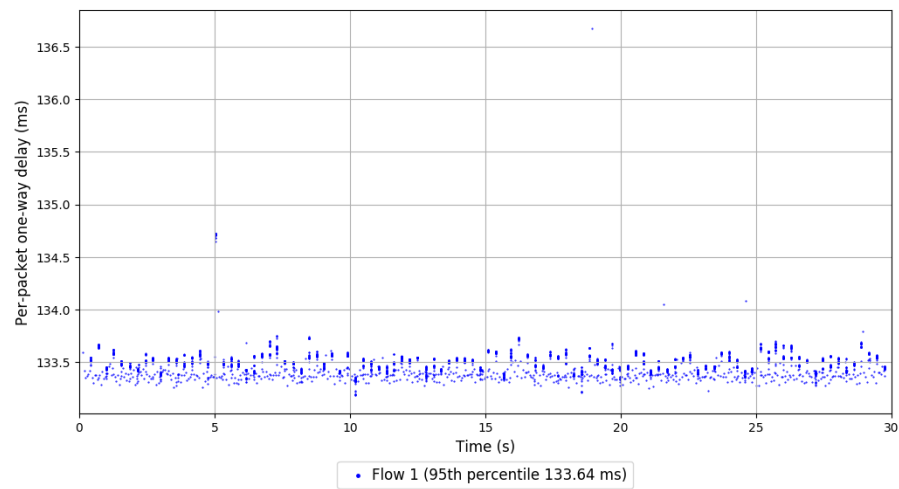
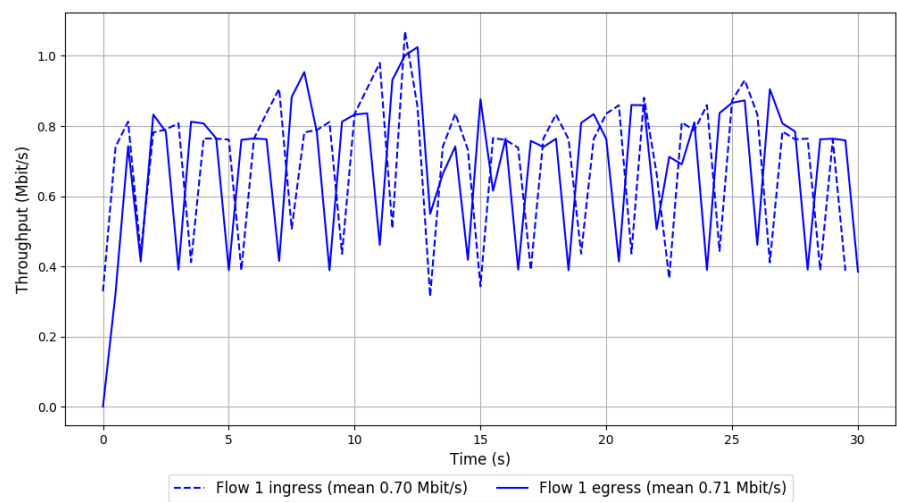


Run 3: Statistics of Sprout

Start at: 2019-07-18 05:03:17  
End at: 2019-07-18 05:03:47  
Local clock offset: 0.256 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 133.643 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 133.643 ms  
Loss rate: 0.02%

Run 3: Report of Sprout — Data Link

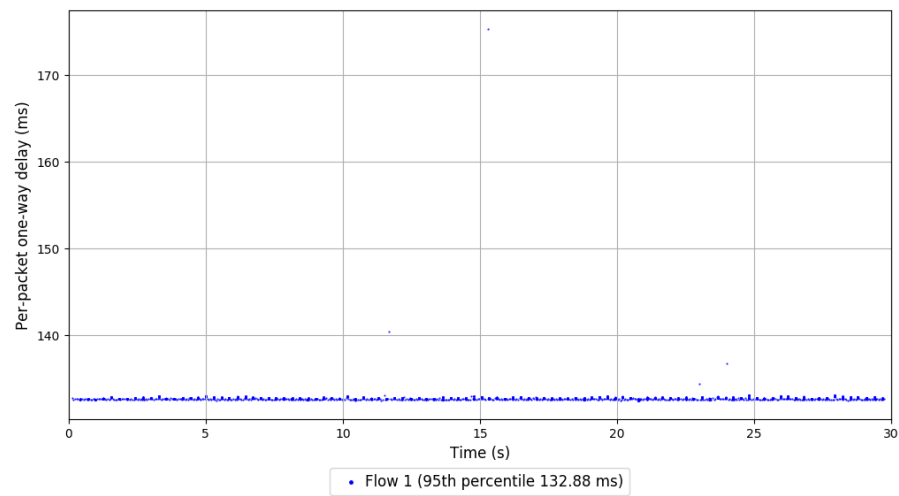
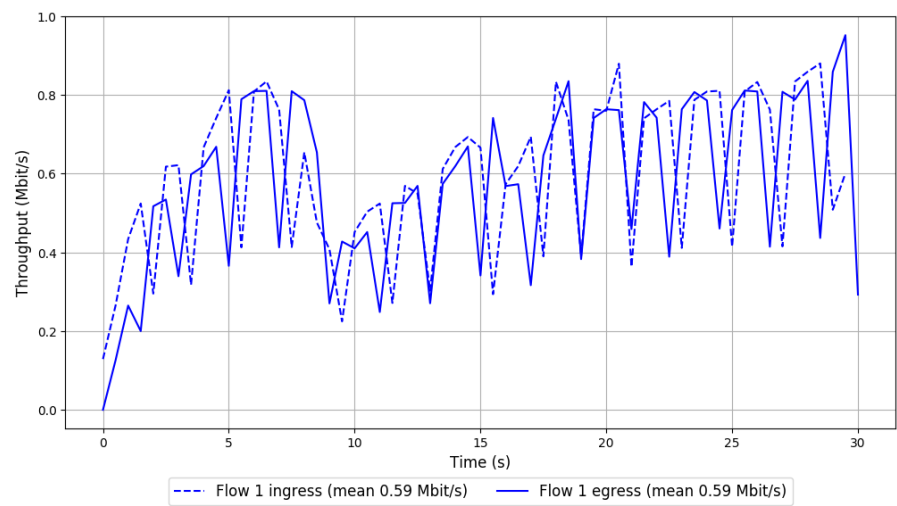


Run 4: Statistics of Sprout

Start at: 2019-07-18 05:39:12  
End at: 2019-07-18 05:39:42  
Local clock offset: -0.542 ms  
Remote clock offset: -0.161 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 132.878 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 0.59 Mbit/s  
95th percentile per-packet one-way delay: 132.878 ms  
Loss rate: 0.88%

Run 4: Report of Sprout — Data Link

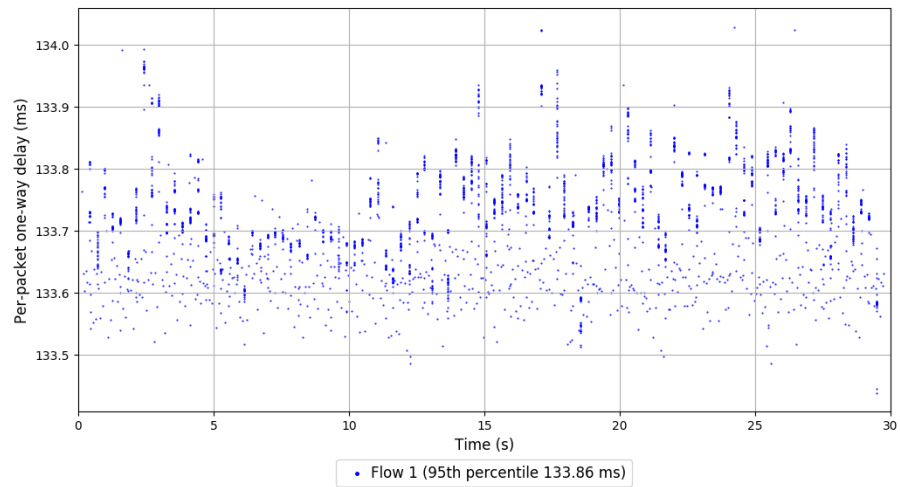
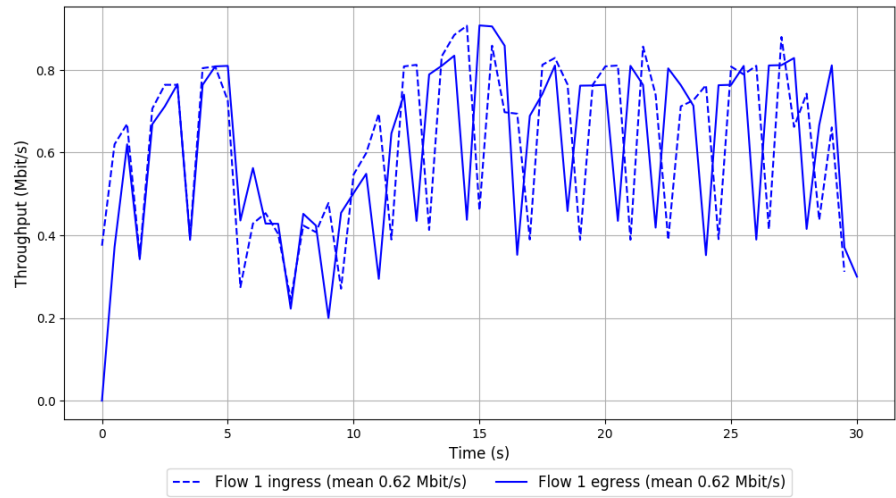


Run 5: Statistics of Sprout

Start at: 2019-07-18 06:15:30  
End at: 2019-07-18 06:16:00  
Local clock offset: 0.368 ms  
Remote clock offset: -0.086 ms

# Below is generated by plot.py at 2019-07-18 08:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 133.863 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 133.863 ms  
Loss rate: 0.83%

## Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-07-18 04:22:15

End at: 2019-07-18 04:22:45

Local clock offset: 0.095 ms

Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-07-18 08:39:44

# Datalink statistics

-- Total of 1 flow:

Average throughput: 191.69 Mbit/s

95th percentile per-packet one-way delay: 133.741 ms

Loss rate: 1.12%

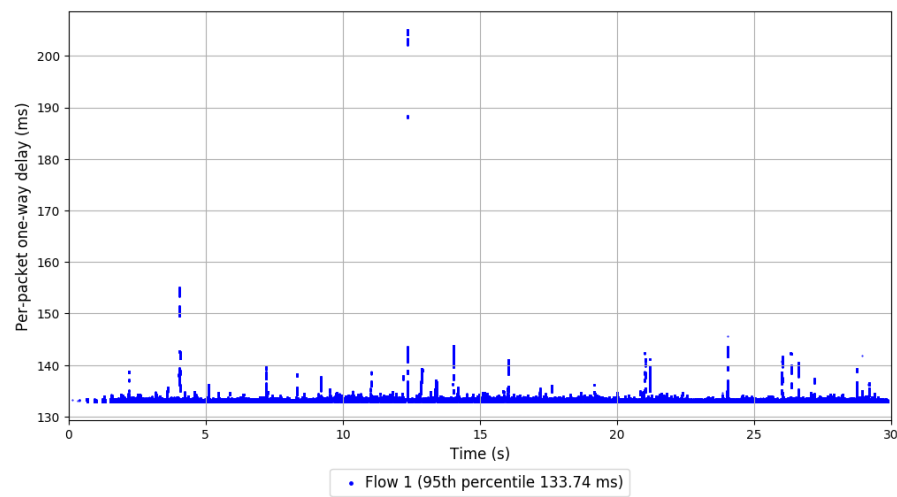
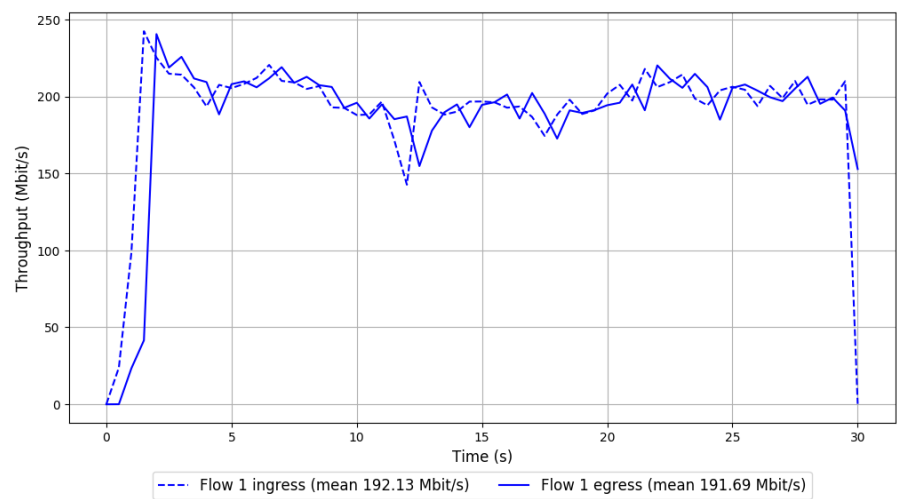
-- Flow 1:

Average throughput: 191.69 Mbit/s

95th percentile per-packet one-way delay: 133.741 ms

Loss rate: 1.12%

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



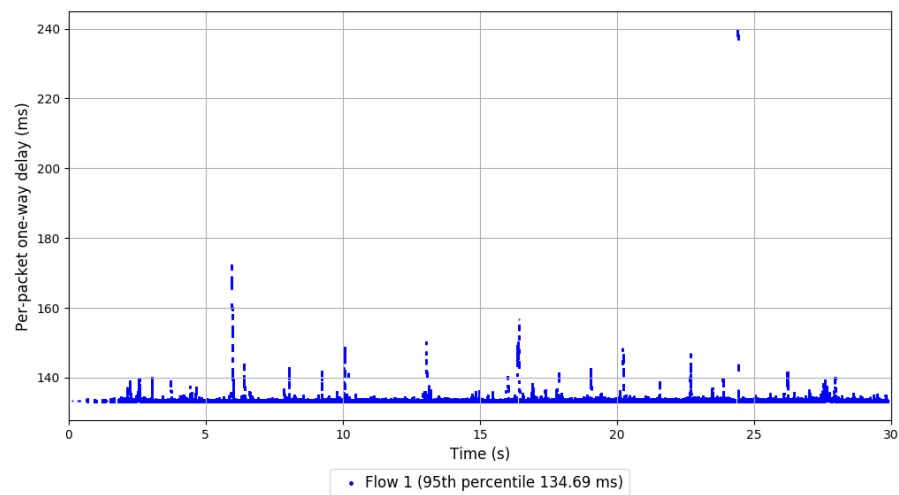
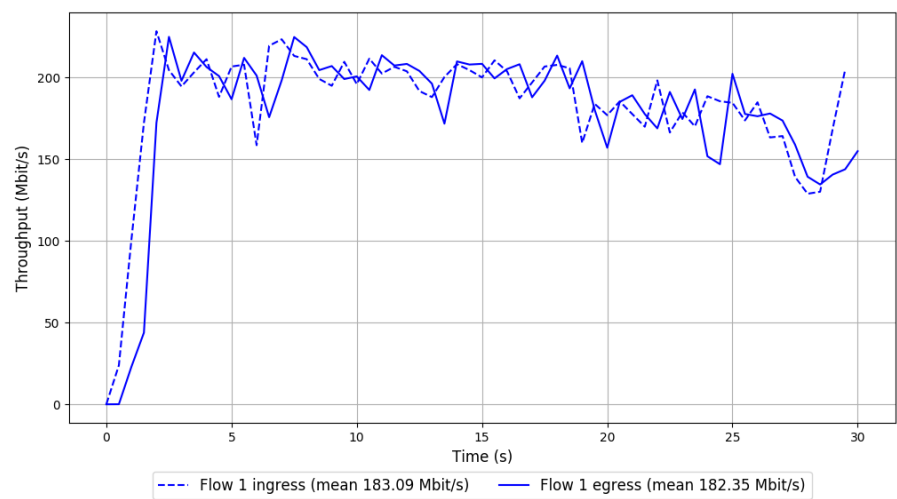


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-18 04:58:33  
End at: 2019-07-18 04:59:03  
Local clock offset: -0.019 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-07-18 08:39:44  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 182.35 Mbit/s  
95th percentile per-packet one-way delay: 134.693 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 182.35 Mbit/s  
95th percentile per-packet one-way delay: 134.693 ms  
Loss rate: 1.29%

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

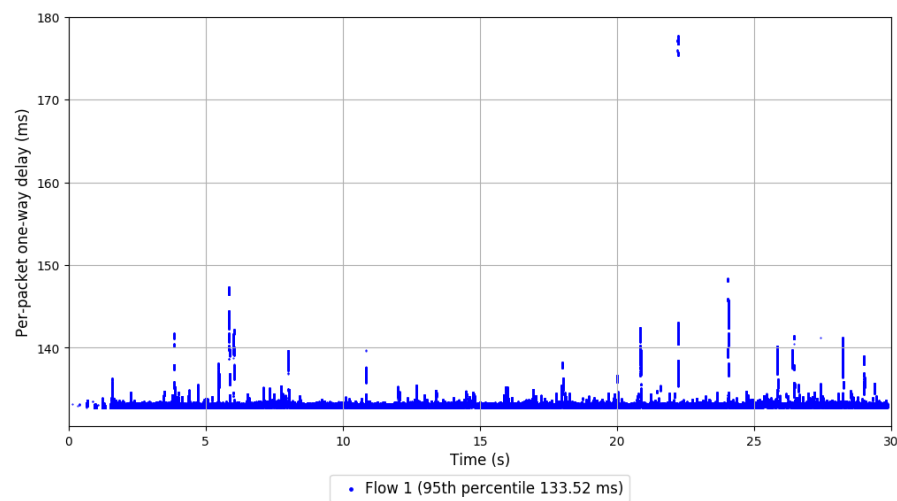
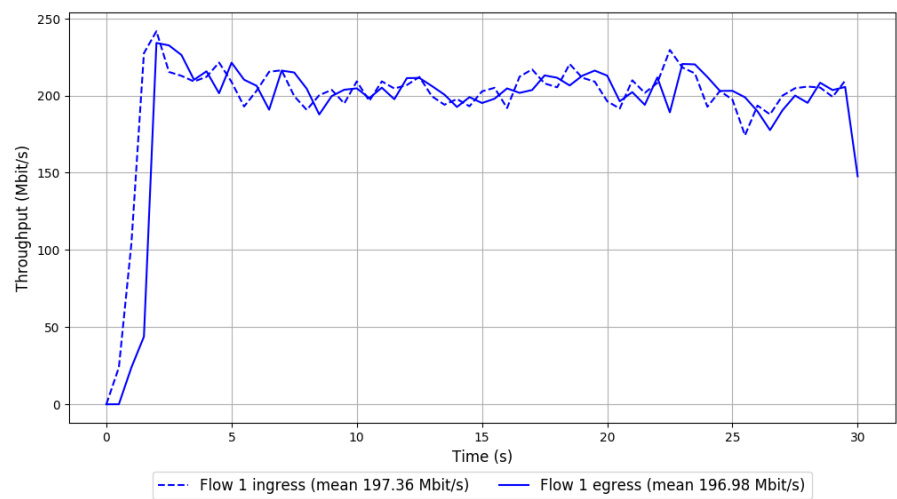


Run 3: Statistics of TaoVA-100x

Start at: 2019-07-18 05:34:36  
End at: 2019-07-18 05:35:06  
Local clock offset: -0.134 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-07-18 08:40:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 196.98 Mbit/s  
95th percentile per-packet one-way delay: 133.516 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 196.98 Mbit/s  
95th percentile per-packet one-way delay: 133.516 ms  
Loss rate: 1.07%

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

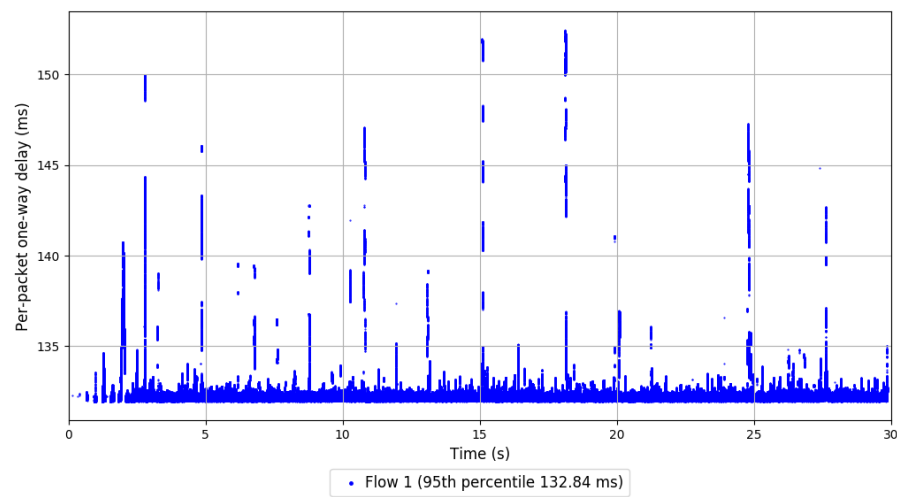
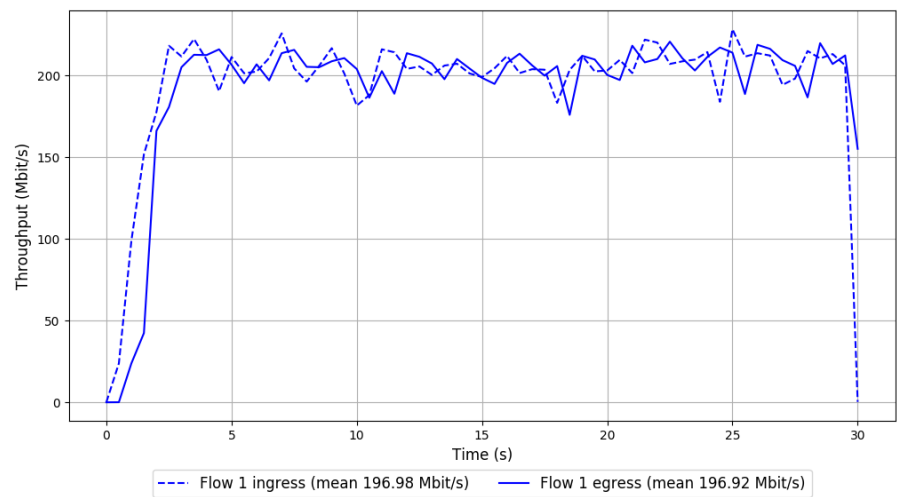


Run 4: Statistics of TaoVA-100x

Start at: 2019-07-18 06:10:51  
End at: 2019-07-18 06:11:21  
Local clock offset: -0.016 ms  
Remote clock offset: -0.135 ms

# Below is generated by plot.py at 2019-07-18 08:40:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 196.92 Mbit/s  
95th percentile per-packet one-way delay: 132.841 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 196.92 Mbit/s  
95th percentile per-packet one-way delay: 132.841 ms  
Loss rate: 0.92%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-07-18 06:46:56

End at: 2019-07-18 06:47:26

Local clock offset: -0.367 ms

Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-07-18 08:40:49

# Datalink statistics

-- Total of 1 flow:

Average throughput: 200.10 Mbit/s

95th percentile per-packet one-way delay: 133.574 ms

Loss rate: 1.19%

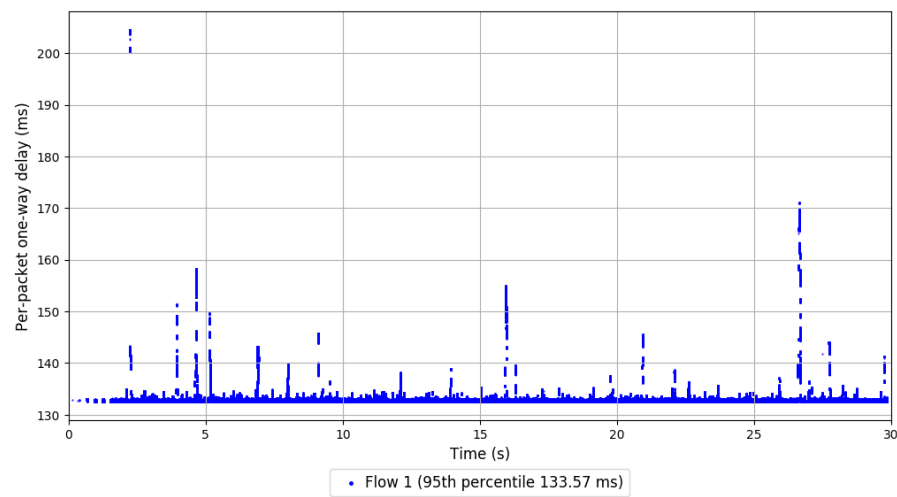
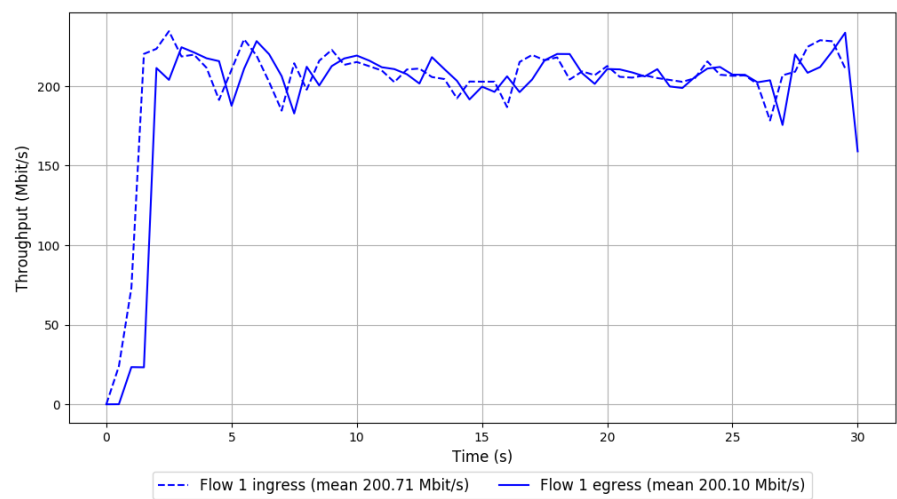
-- Flow 1:

Average throughput: 200.10 Mbit/s

95th percentile per-packet one-way delay: 133.574 ms

Loss rate: 1.19%

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



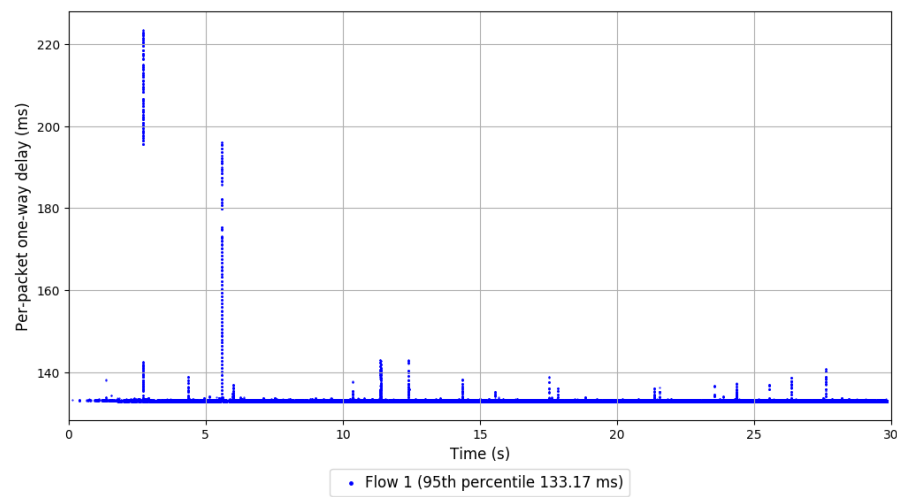
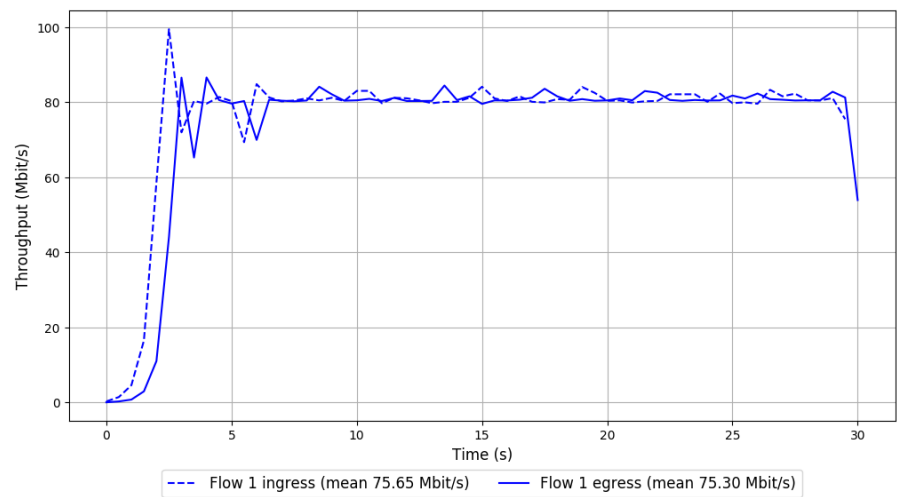


Run 1: Statistics of TCP Vegas

Start at: 2019-07-18 04:06:55  
End at: 2019-07-18 04:07:25  
Local clock offset: 0.003 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-07-18 08:40:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 75.30 Mbit/s  
95th percentile per-packet one-way delay: 133.173 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 75.30 Mbit/s  
95th percentile per-packet one-way delay: 133.173 ms  
Loss rate: 1.33%

Run 1: Report of TCP Vegas — Data Link

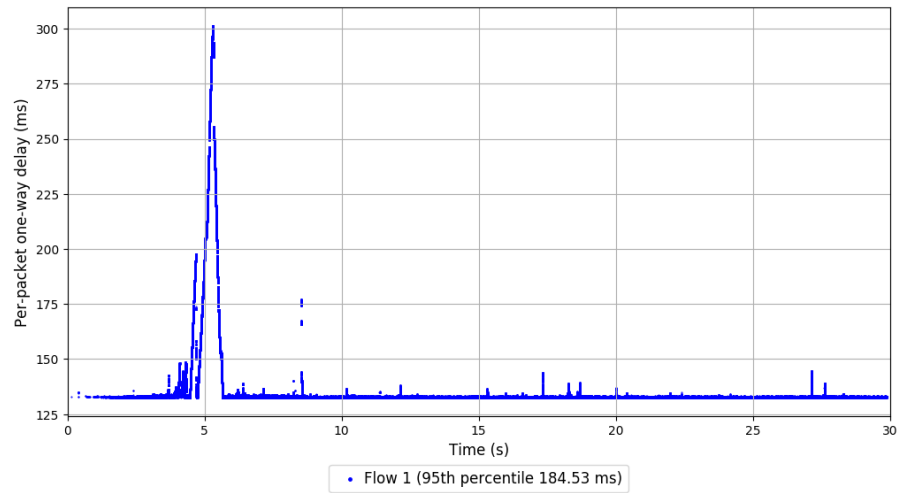
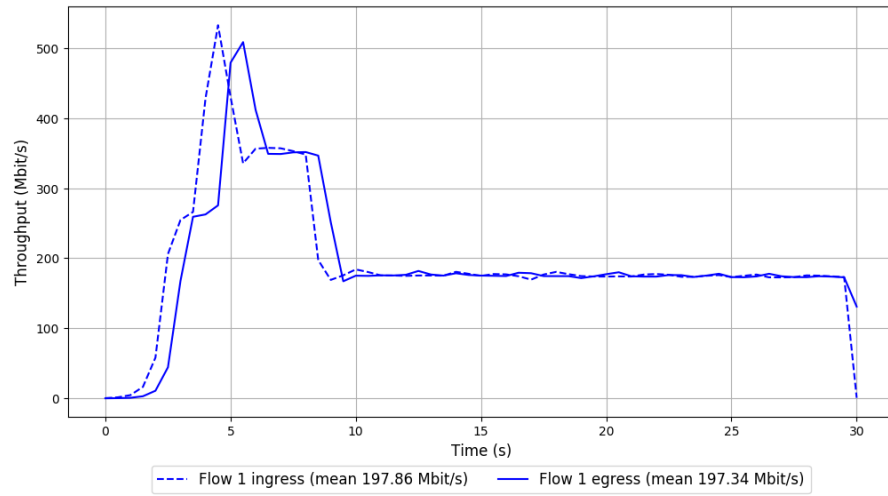


Run 2: Statistics of TCP Vegas

Start at: 2019-07-18 04:43:19  
End at: 2019-07-18 04:43:49  
Local clock offset: -0.301 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-07-18 08:40:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 197.34 Mbit/s  
95th percentile per-packet one-way delay: 184.532 ms  
Loss rate: 1.15%  
-- Flow 1:  
Average throughput: 197.34 Mbit/s  
95th percentile per-packet one-way delay: 184.532 ms  
Loss rate: 1.15%

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

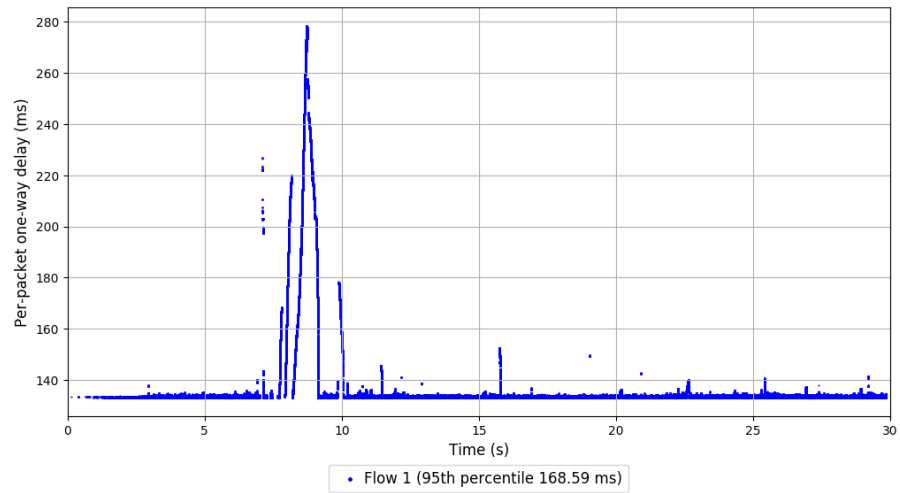
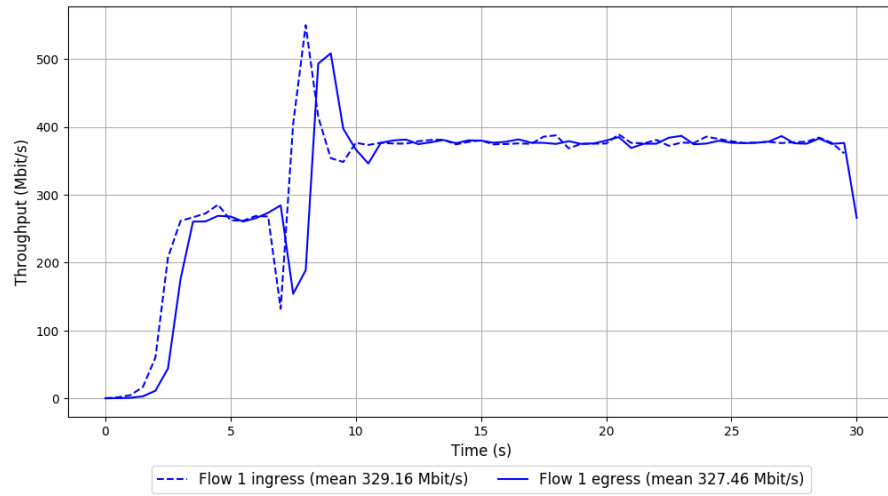


Run 3: Statistics of TCP Vegas

Start at: 2019-07-18 05:19:21  
End at: 2019-07-18 05:19:51  
Local clock offset: -0.096 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-07-18 08:42:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 327.46 Mbit/s  
95th percentile per-packet one-way delay: 168.589 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 327.46 Mbit/s  
95th percentile per-packet one-way delay: 168.589 ms  
Loss rate: 1.40%

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

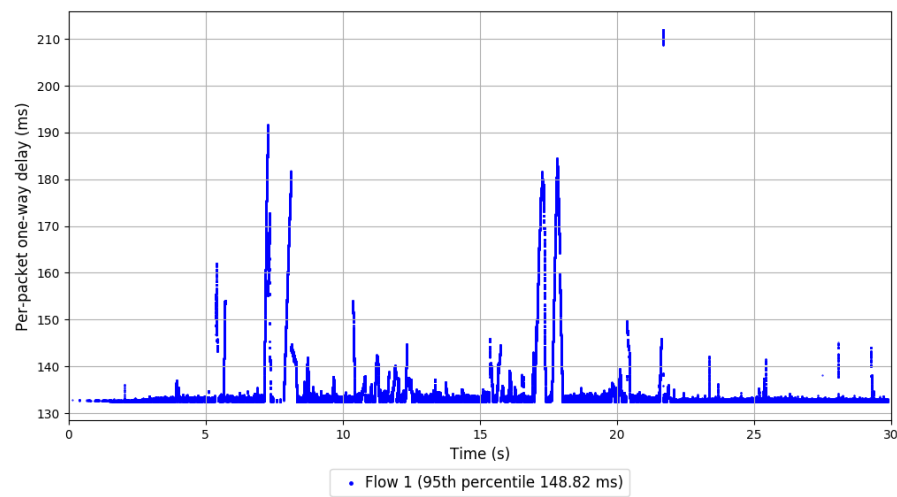
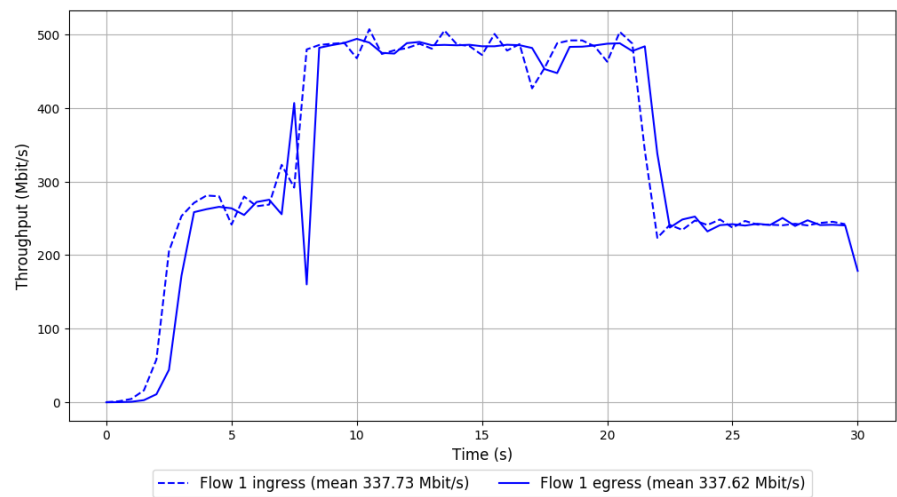


Run 4: Statistics of TCP Vegas

Start at: 2019-07-18 05:55:36  
End at: 2019-07-18 05:56:06  
Local clock offset: -0.186 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-07-18 08:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 337.62 Mbit/s  
95th percentile per-packet one-way delay: 148.816 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 337.62 Mbit/s  
95th percentile per-packet one-way delay: 148.816 ms  
Loss rate: 0.92%

Run 4: Report of TCP Vegas — Data Link



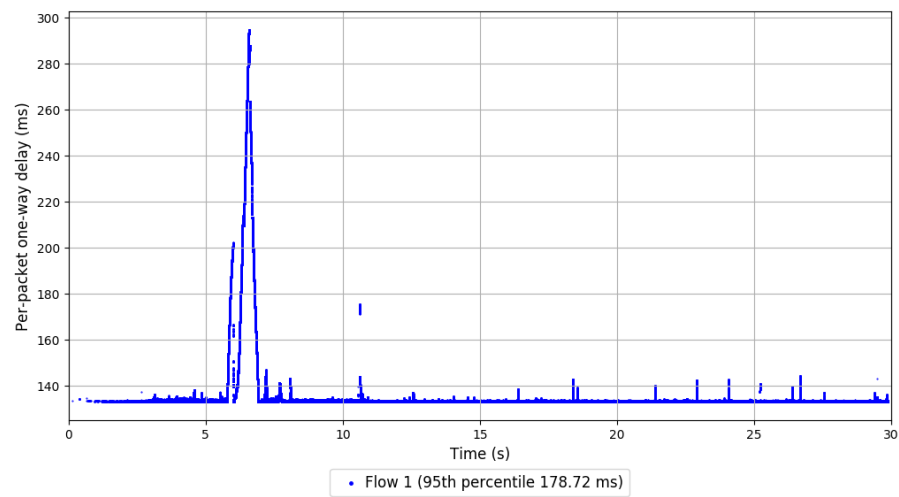
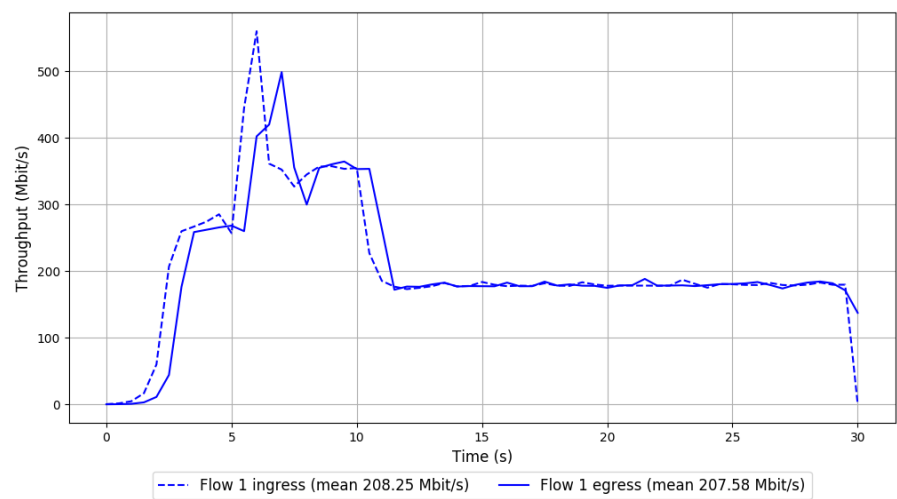


Run 5: Statistics of TCP Vegas

Start at: 2019-07-18 06:31:50  
End at: 2019-07-18 06:32:20  
Local clock offset: 0.337 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-07-18 08:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 207.58 Mbit/s  
95th percentile per-packet one-way delay: 178.721 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 207.58 Mbit/s  
95th percentile per-packet one-way delay: 178.721 ms  
Loss rate: 1.21%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-07-18 04:08:11

End at: 2019-07-18 04:08:41

Local clock offset: -0.043 ms

Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2019-07-18 08:43:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 186.407 ms

Loss rate: 1.19%

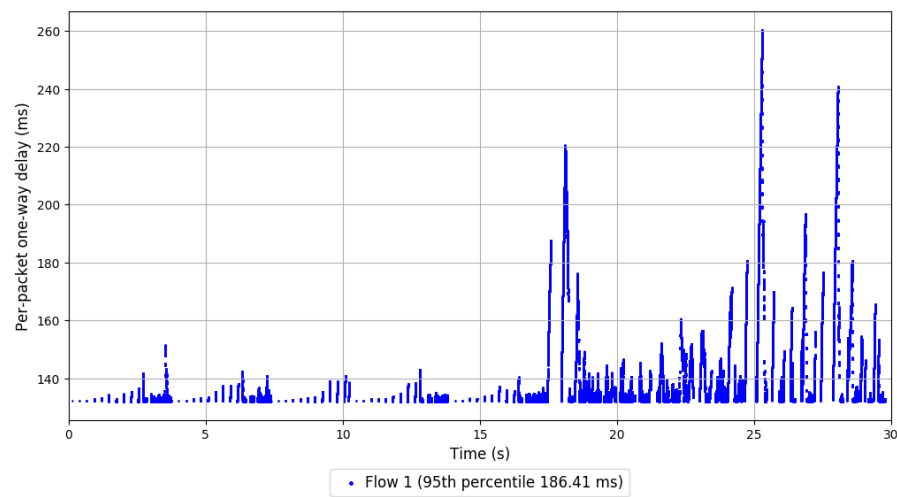
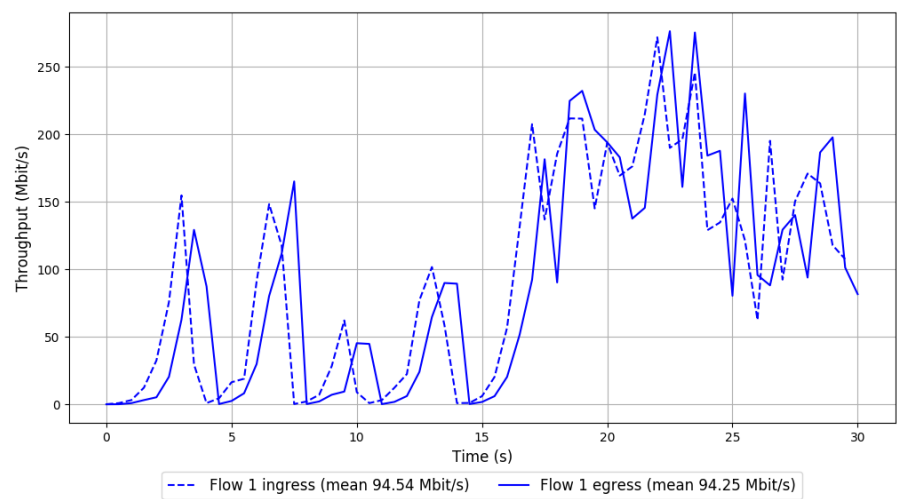
-- Flow 1:

Average throughput: 94.25 Mbit/s

95th percentile per-packet one-way delay: 186.407 ms

Loss rate: 1.19%

Run 1: Report of Verus — Data Link

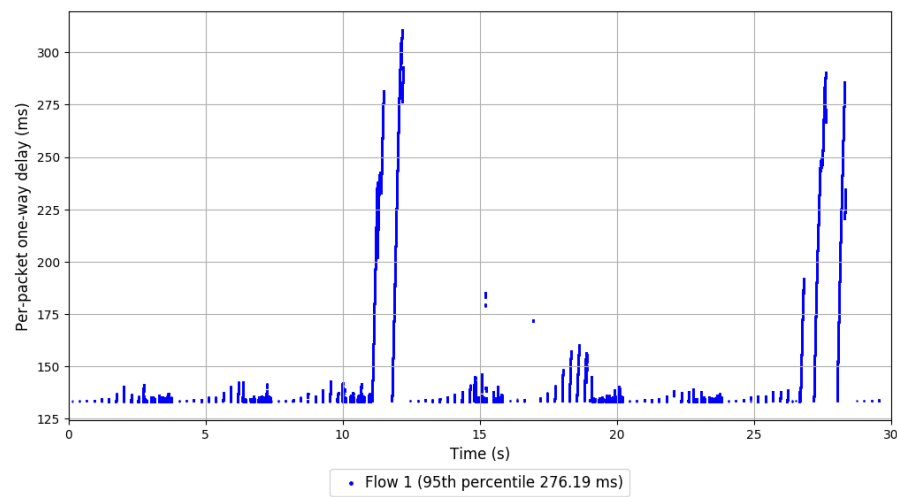
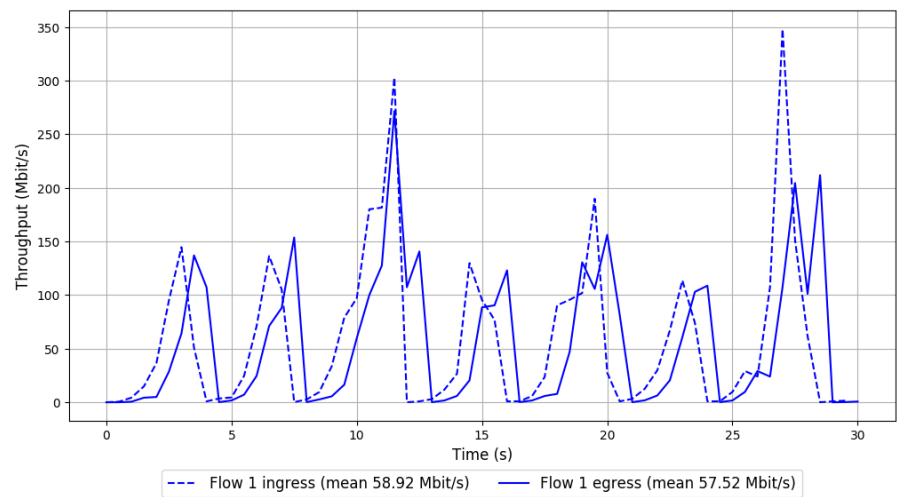


Run 2: Statistics of Verus

Start at: 2019-07-18 04:44:43  
End at: 2019-07-18 04:45:13  
Local clock offset: -0.026 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-07-18 08:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 57.52 Mbit/s  
95th percentile per-packet one-way delay: 276.195 ms  
Loss rate: 3.25%  
-- Flow 1:  
Average throughput: 57.52 Mbit/s  
95th percentile per-packet one-way delay: 276.195 ms  
Loss rate: 3.25%

Run 2: Report of Verus — Data Link

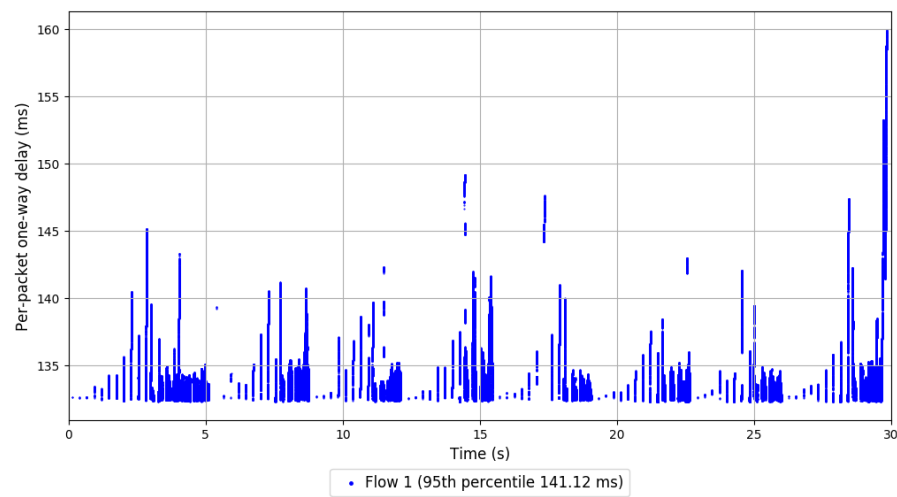
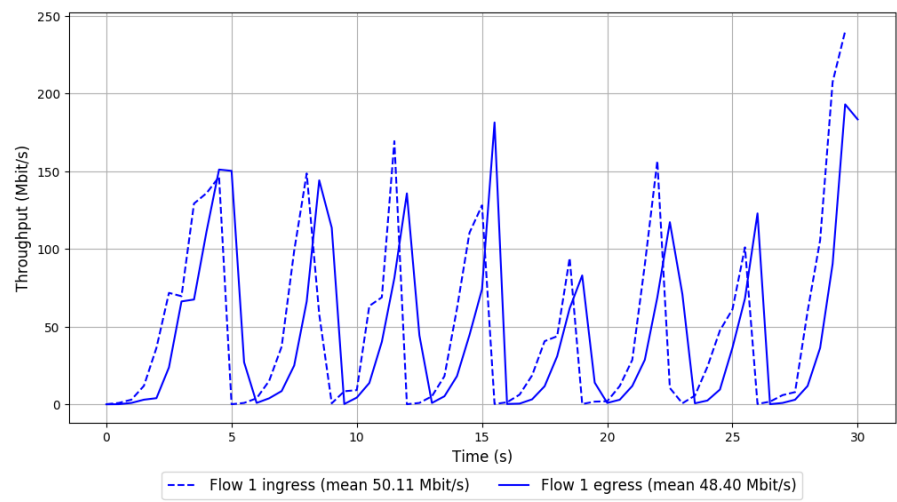


Run 3: Statistics of Verus

Start at: 2019-07-18 05:20:51  
End at: 2019-07-18 05:21:21  
Local clock offset: -0.548 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-07-18 08:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 48.40 Mbit/s  
95th percentile per-packet one-way delay: 141.120 ms  
Loss rate: 3.68%  
-- Flow 1:  
Average throughput: 48.40 Mbit/s  
95th percentile per-packet one-way delay: 141.120 ms  
Loss rate: 3.68%

Run 3: Report of Verus — Data Link



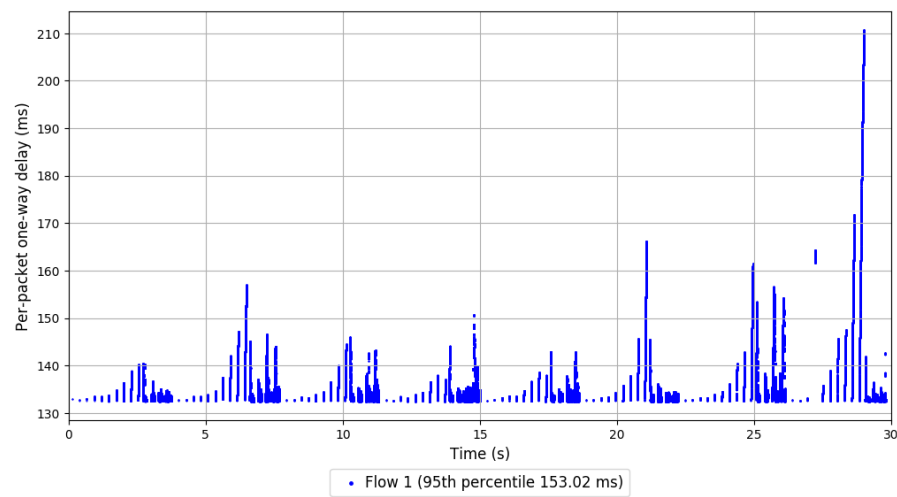
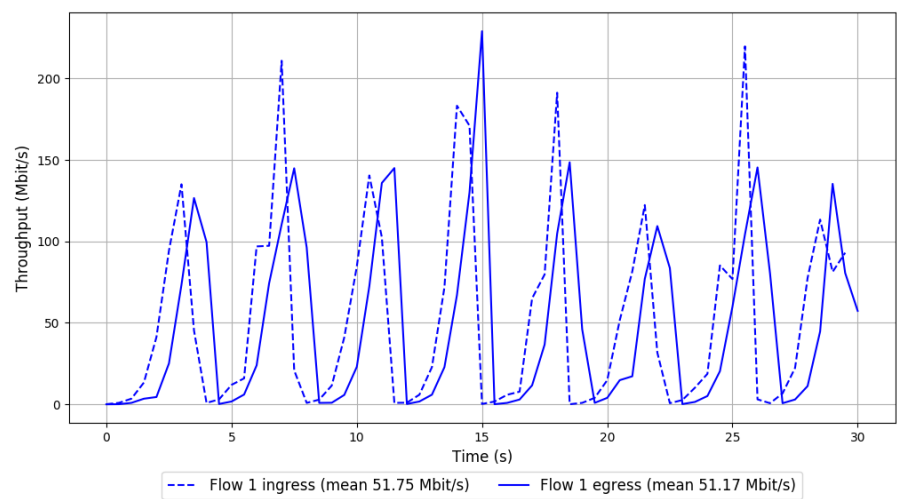


Run 4: Statistics of Verus

Start at: 2019-07-18 05:57:07  
End at: 2019-07-18 05:57:37  
Local clock offset: -0.402 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-07-18 08:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.17 Mbit/s  
95th percentile per-packet one-way delay: 153.020 ms  
Loss rate: 2.00%  
-- Flow 1:  
Average throughput: 51.17 Mbit/s  
95th percentile per-packet one-way delay: 153.020 ms  
Loss rate: 2.00%

Run 4: Report of Verus — Data Link

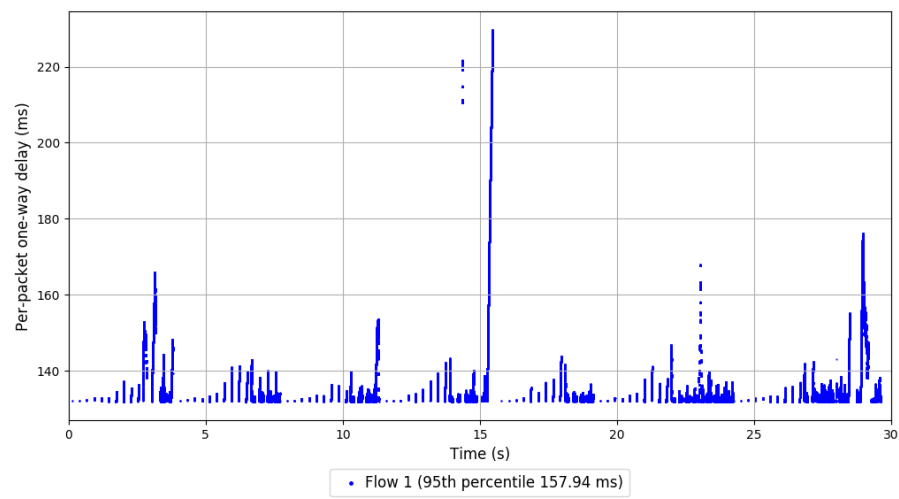
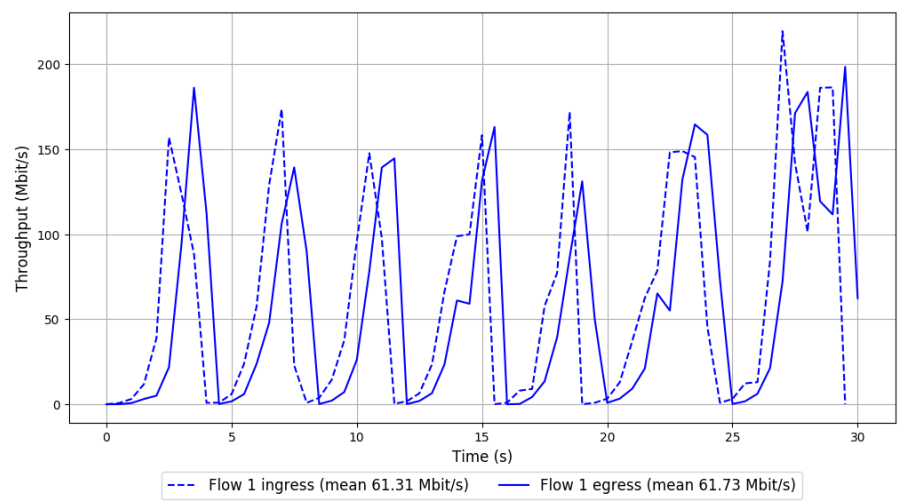


Run 5: Statistics of Verus

Start at: 2019-07-18 06:33:13  
End at: 2019-07-18 06:33:43  
Local clock offset: -0.501 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-07-18 08:43:47  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 61.73 Mbit/s  
95th percentile per-packet one-way delay: 157.935 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 61.73 Mbit/s  
95th percentile per-packet one-way delay: 157.935 ms  
Loss rate: 0.23%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-07-18 04:18:59

End at: 2019-07-18 04:19:29

Local clock offset: 0.13 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-07-18 08:46:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 330.77 Mbit/s

95th percentile per-packet one-way delay: 152.928 ms

Loss rate: 0.99%

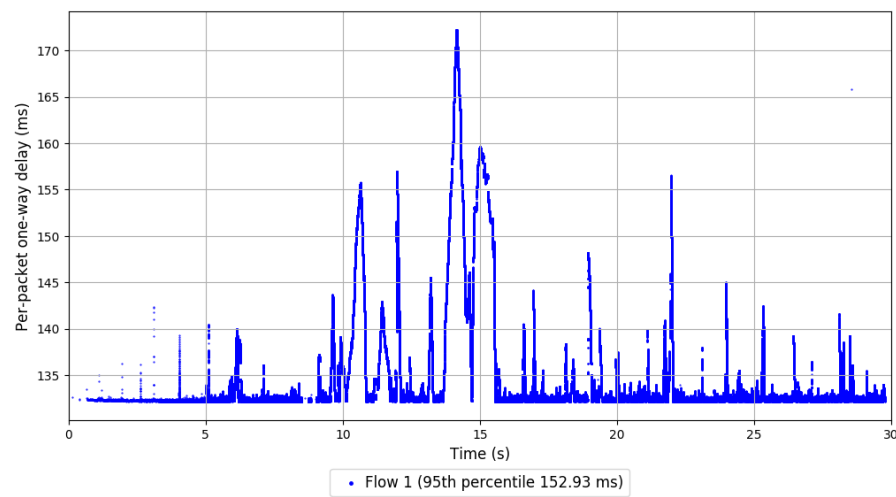
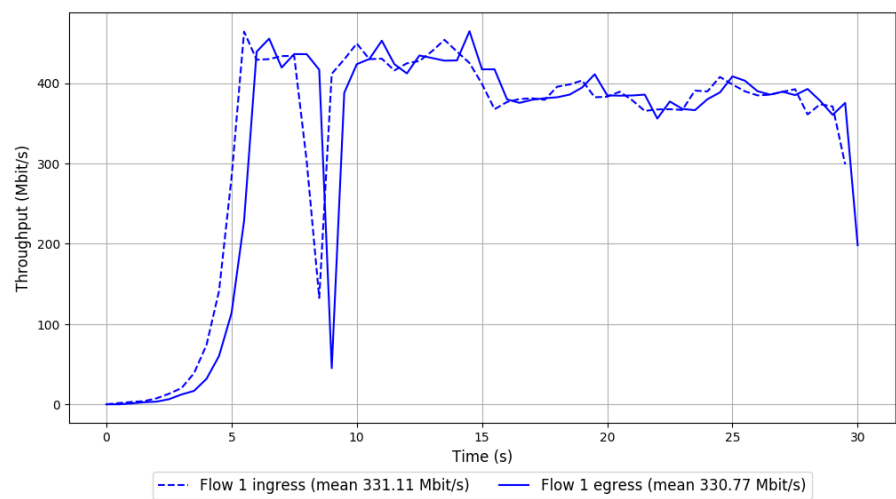
-- Flow 1:

Average throughput: 330.77 Mbit/s

95th percentile per-packet one-way delay: 152.928 ms

Loss rate: 0.99%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-07-18 04:55:25

End at: 2019-07-18 04:55:55

Local clock offset: 0.099 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-07-18 08:46:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 299.84 Mbit/s

95th percentile per-packet one-way delay: 147.570 ms

Loss rate: 0.87%

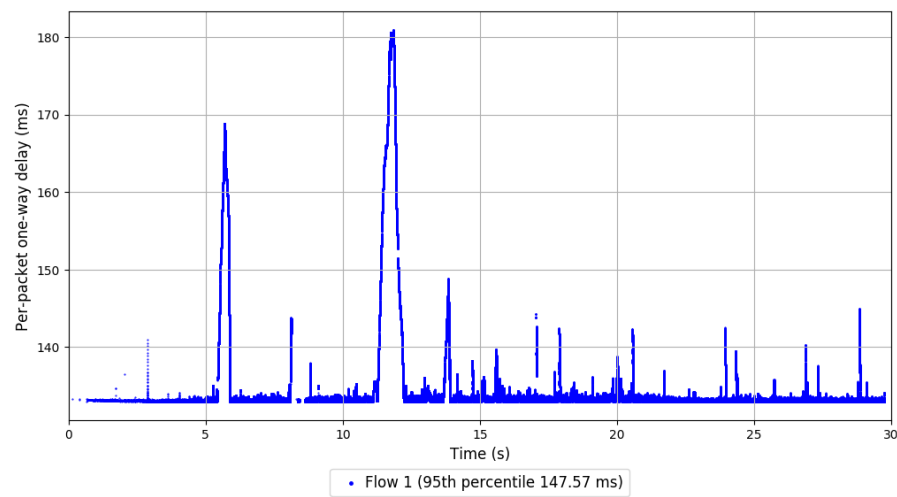
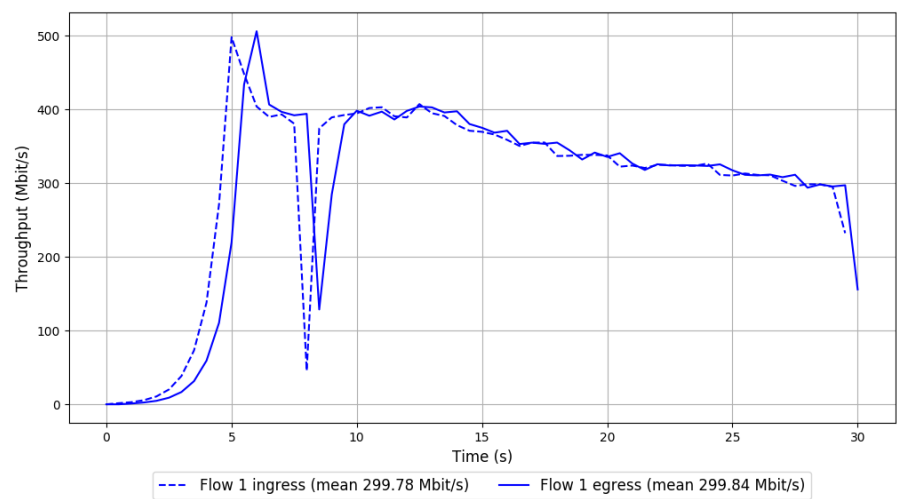
-- Flow 1:

Average throughput: 299.84 Mbit/s

95th percentile per-packet one-way delay: 147.570 ms

Loss rate: 0.87%

Run 2: Report of PCC-Vivace — Data Link



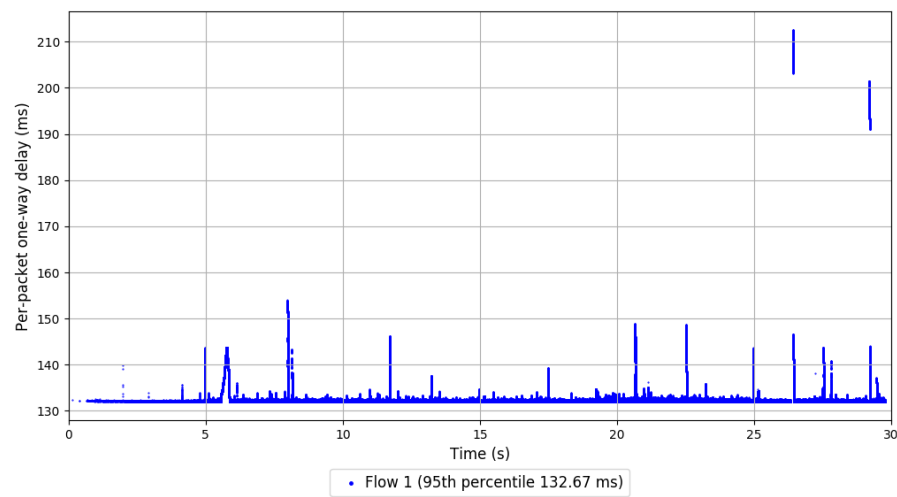
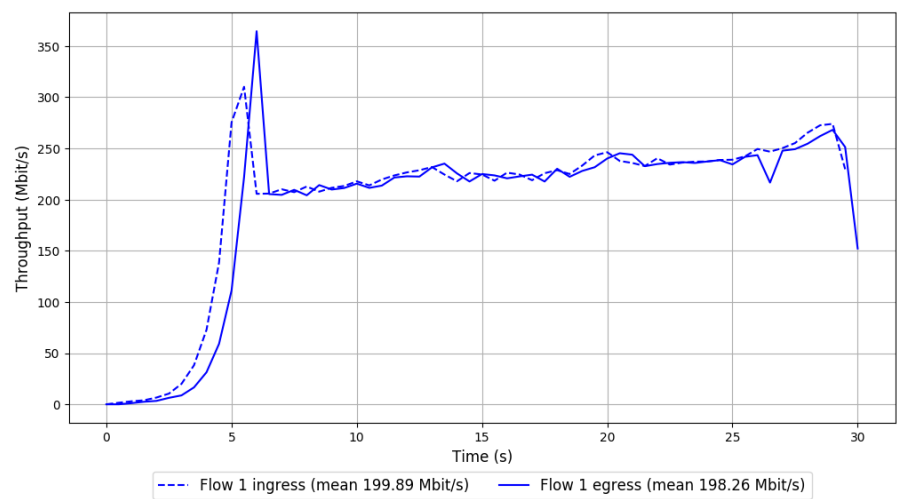


Run 3: Statistics of PCC-Vivace

Start at: 2019-07-18 05:31:31  
End at: 2019-07-18 05:32:01  
Local clock offset: -0.521 ms  
Remote clock offset: -0.144 ms

# Below is generated by plot.py at 2019-07-18 08:46:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 198.26 Mbit/s  
95th percentile per-packet one-way delay: 132.667 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 198.26 Mbit/s  
95th percentile per-packet one-way delay: 132.667 ms  
Loss rate: 1.70%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-07-18 06:07:44

End at: 2019-07-18 06:08:14

Local clock offset: 0.064 ms

Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-07-18 08:46:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 251.07 Mbit/s

95th percentile per-packet one-way delay: 155.543 ms

Loss rate: 1.78%

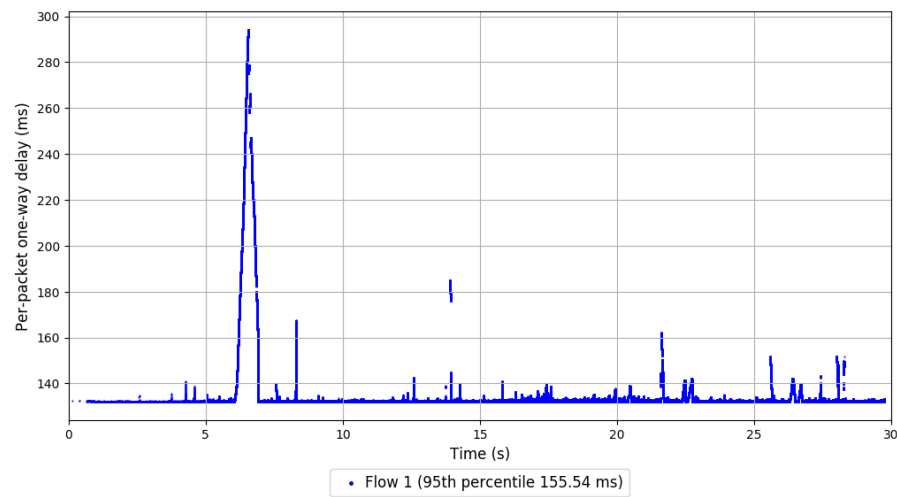
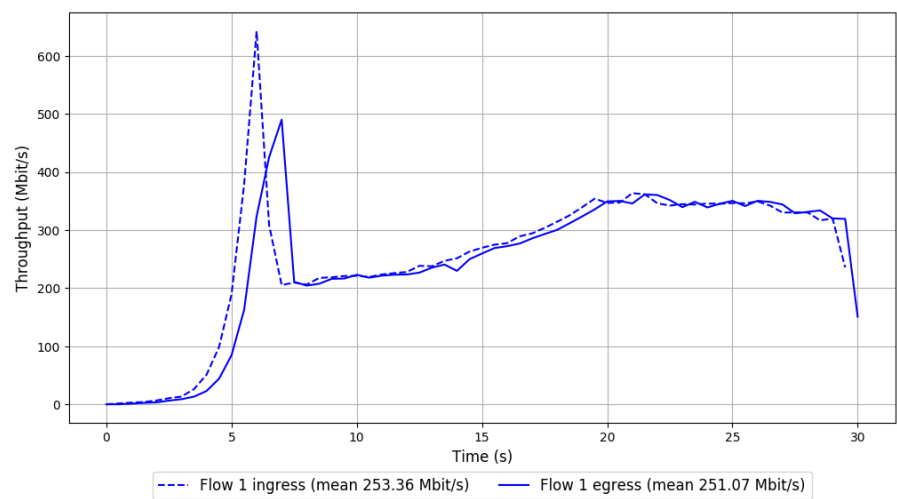
-- Flow 1:

Average throughput: 251.07 Mbit/s

95th percentile per-packet one-way delay: 155.543 ms

Loss rate: 1.78%

Run 4: Report of PCC-Vivace — Data Link

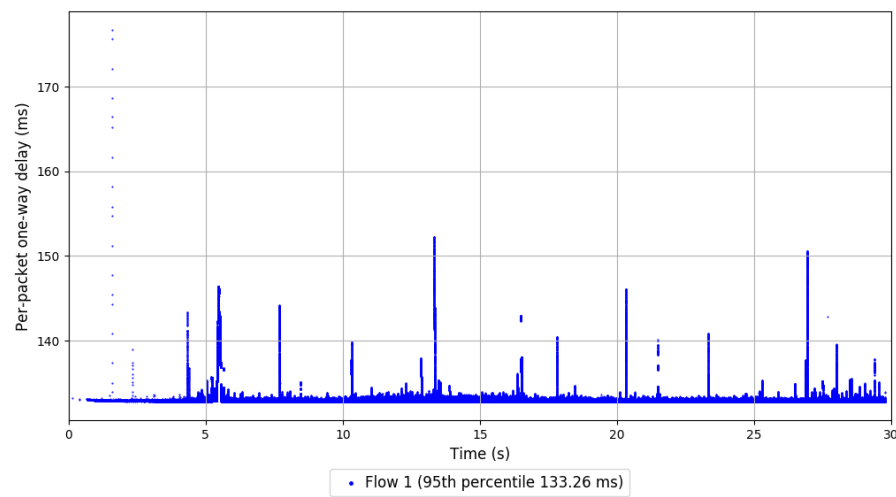
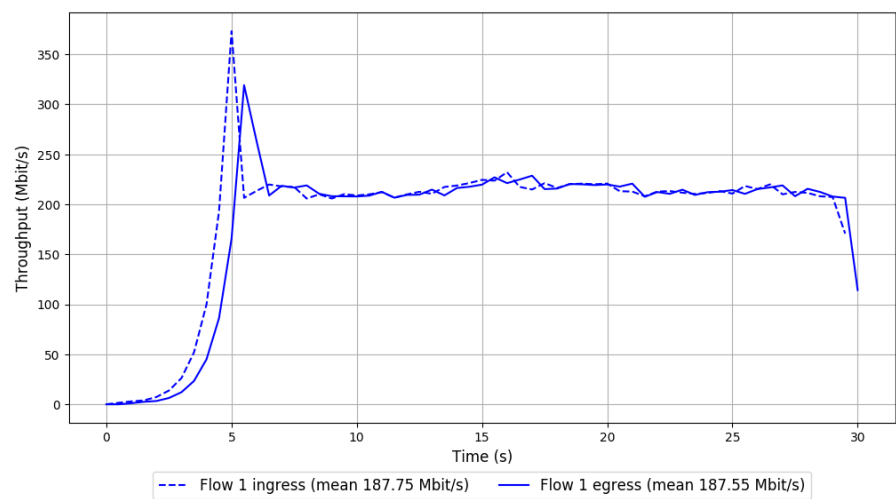


Run 5: Statistics of PCC-Vivace

Start at: 2019-07-18 06:43:56  
End at: 2019-07-18 06:44:26  
Local clock offset: -0.066 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-07-18 08:46:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 187.55 Mbit/s  
95th percentile per-packet one-way delay: 133.260 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 187.55 Mbit/s  
95th percentile per-packet one-way delay: 133.260 ms  
Loss rate: 1.00%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

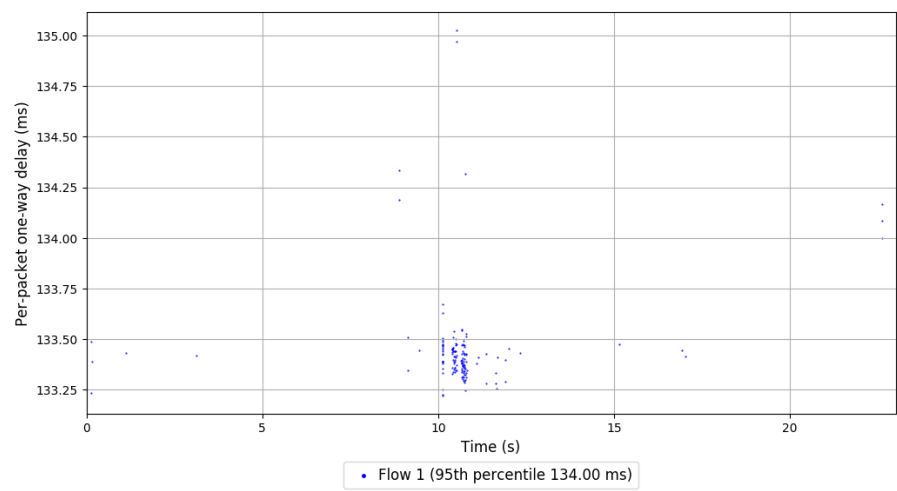
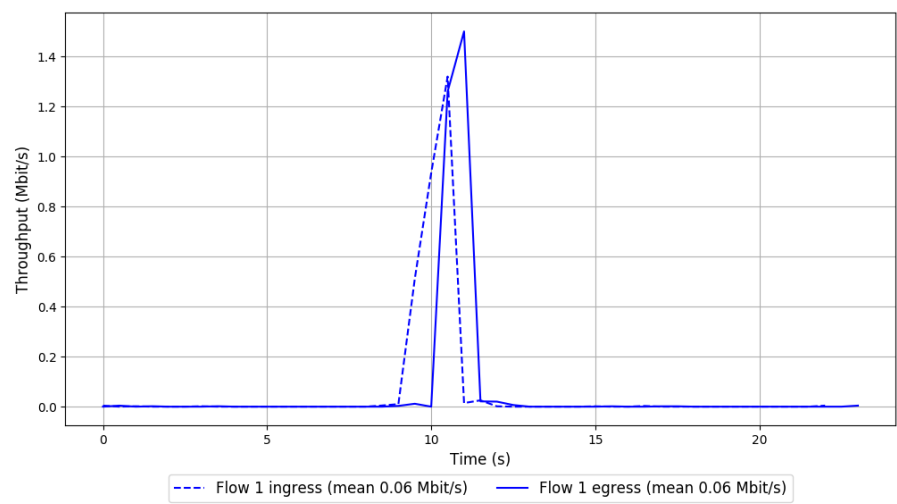
Start at: 2019-07-18 03:59:32

End at: 2019-07-18 04:00:02

Local clock offset: 0.327 ms

Remote clock offset: -0.083 ms

Run 1: Report of WebRTC media — Data Link



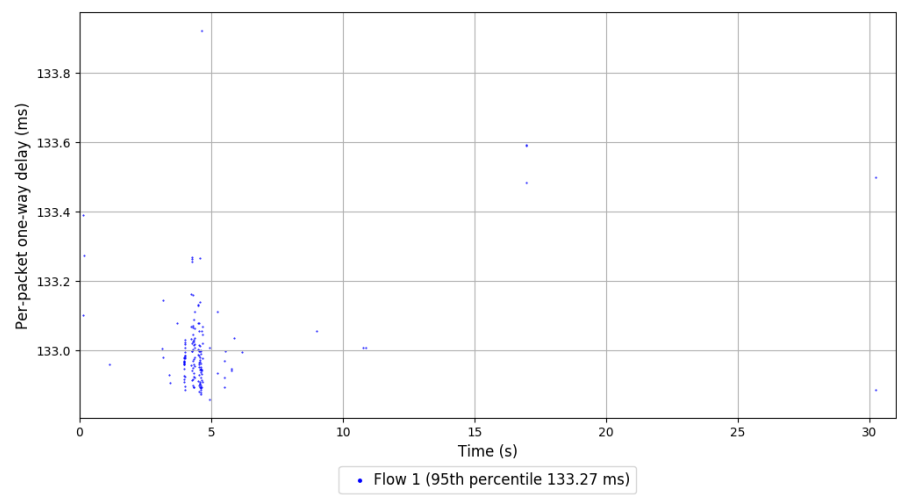
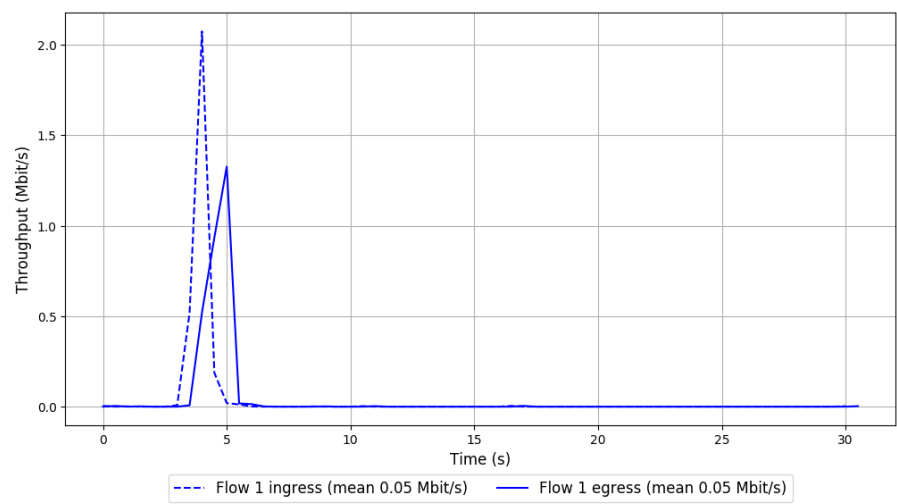


Run 2: Statistics of WebRTC media

Start at: 2019-07-18 04:35:54  
End at: 2019-07-18 04:36:24  
Local clock offset: -0.068 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-07-18 08:46:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.267 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.267 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

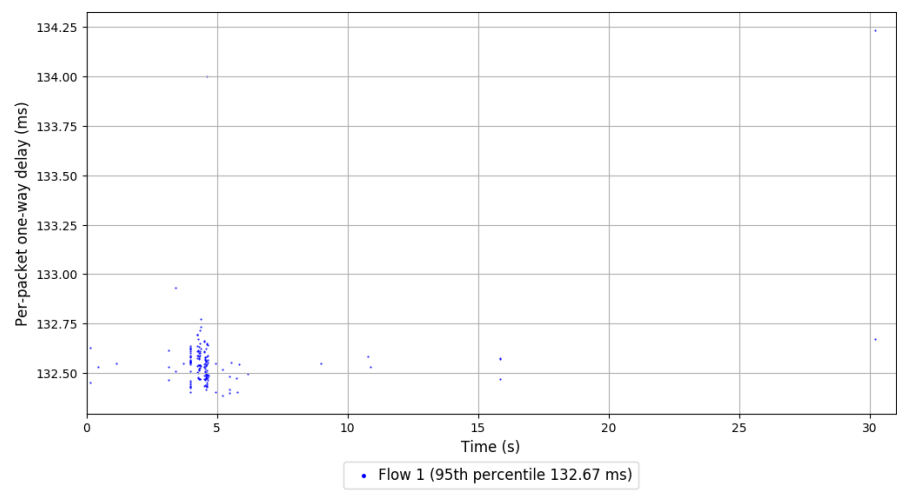
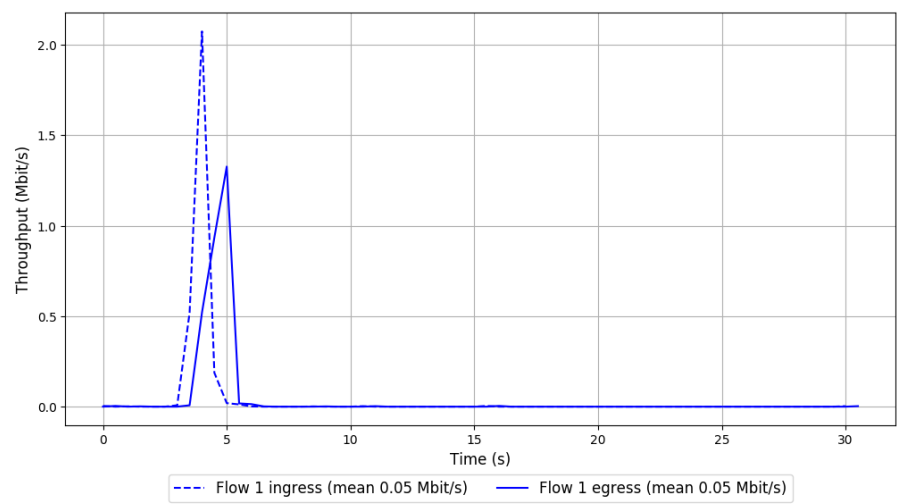


Run 3: Statistics of WebRTC media

Start at: 2019-07-18 05:12:18  
End at: 2019-07-18 05:12:48  
Local clock offset: -0.131 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-07-18 08:46:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.674 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.674 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

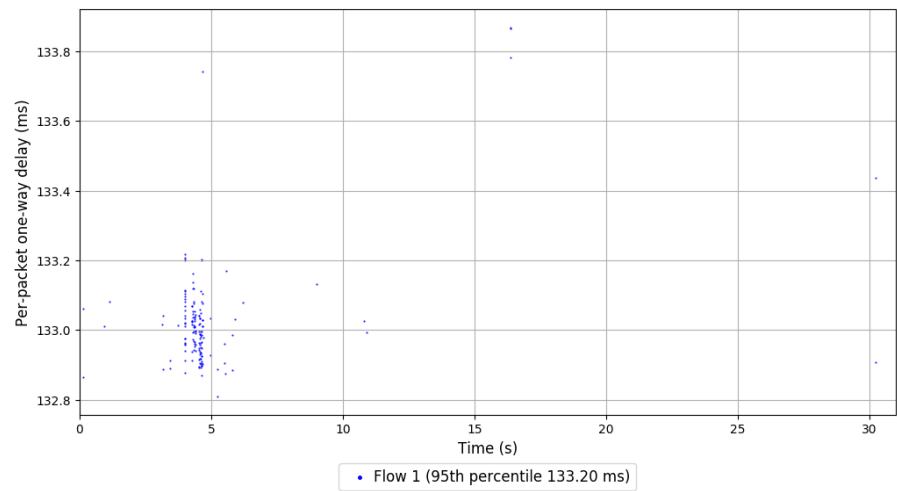
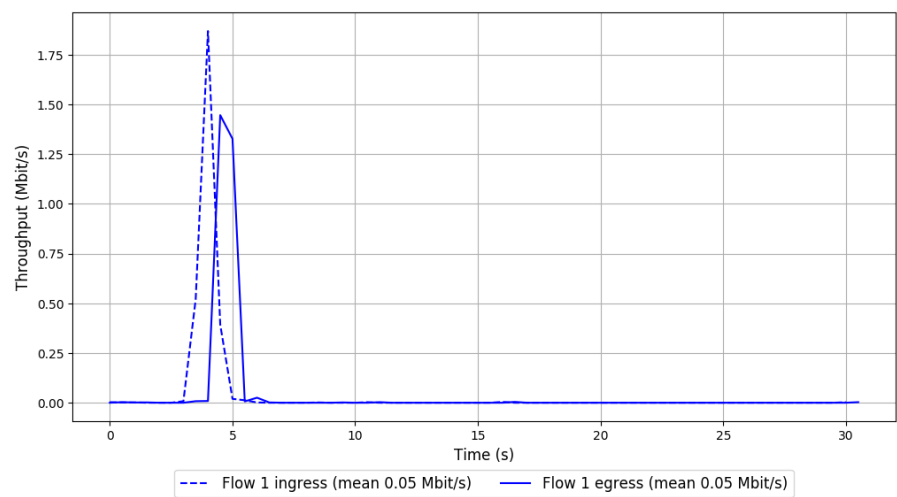


Run 4: Statistics of WebRTC media

Start at: 2019-07-18 05:48:11  
End at: 2019-07-18 05:48:41  
Local clock offset: -0.038 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-07-18 08:46:08  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.204 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.204 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-18 06:24:29

End at: 2019-07-18 06:24:59

Local clock offset: -0.044 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-07-18 08:46:08

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.849 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 132.849 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

