

## Pantheon Report

Generated at 2019-09-19 03:58:50 (UTC).

Data path: GCE Tokyo 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:

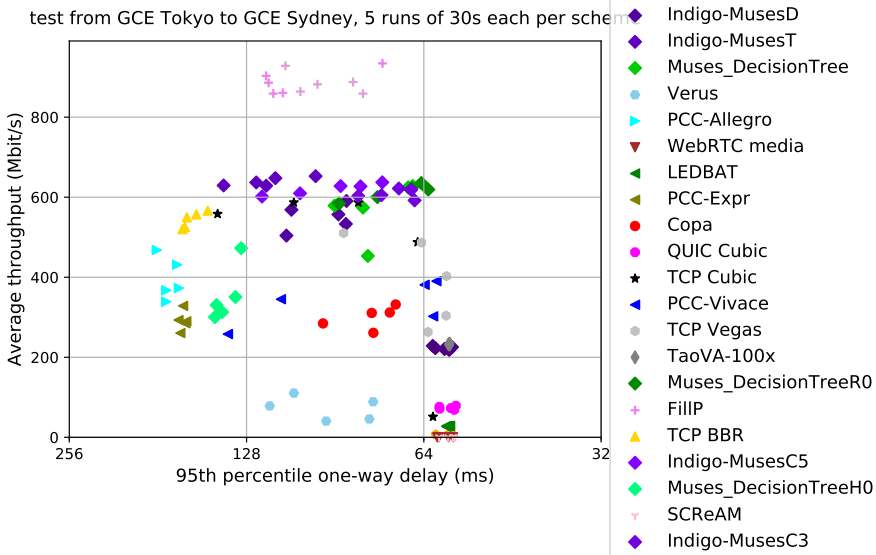
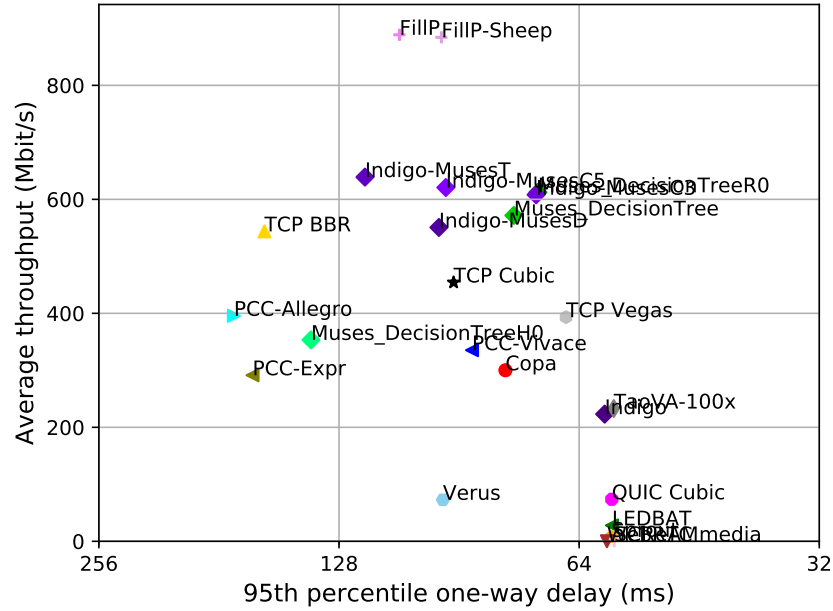
```
Linux 4.15.0-1040-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### 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 Tokyo to GCE Sydney, 5 runs of 30s each per scheme  
(mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s) flow 1	mean 95th-%ile delay (ms) flow 1	mean loss rate (%) flow 1
TCP BBR	5	543.80	158.74	1.25
Copa	5	300.08	79.18	0.42
TCP Cubic	5	454.17	91.95	0.41
FillP	5	888.69	107.51	1.09
FillP-Sheep	5	884.26	95.25	0.60
Indigo	5	223.15	59.46	0.40
Indigo-MusesC3	5	608.07	72.48	0.44
Indigo-MusesC5	5	620.71	94.04	0.48
Indigo-MusesD	5	550.67	95.93	0.51
Indigo-MusesT	5	639.04	118.76	0.52
LEDBAT	5	27.93	58.22	0.76
Muses_DecisionTree	5	571.73	77.28	0.45
Muses_DecisionTreeH0	5	353.37	138.79	1.20
Muses_DecisionTreeR0	5	612.35	72.10	0.44
PCC-Allegro	5	395.60	173.38	2.04
PCC-Expr	5	291.37	164.31	2.79
QUIC Cubic	5	73.73	58.25	0.46
SCReAM	5	0.22	57.86	0.38
Sprout	5	7.76	58.32	0.39
TaoVA-100x	5	232.95	57.91	0.38
TCP Vegas	5	393.33	66.47	0.37
Verus	5	72.81	94.85	0.00
PCC-Vivace	5	335.35	87.20	0.76
WebRTC media	4	0.05	59.07	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-09-18 22:53:16

End at: 2019-09-18 22:53:46

Local clock offset: -0.106 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-09-19 02:10:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 566.54 Mbit/s

95th percentile per-packet one-way delay: 148.999 ms

Loss rate: 1.05%

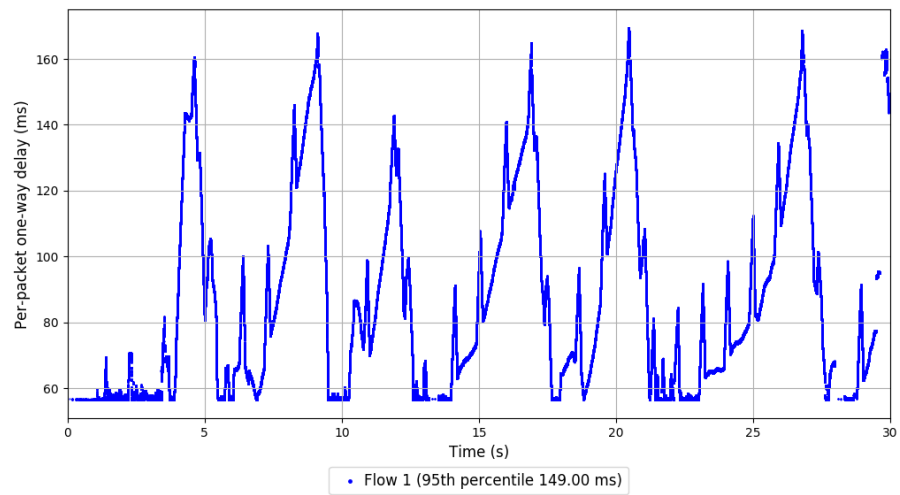
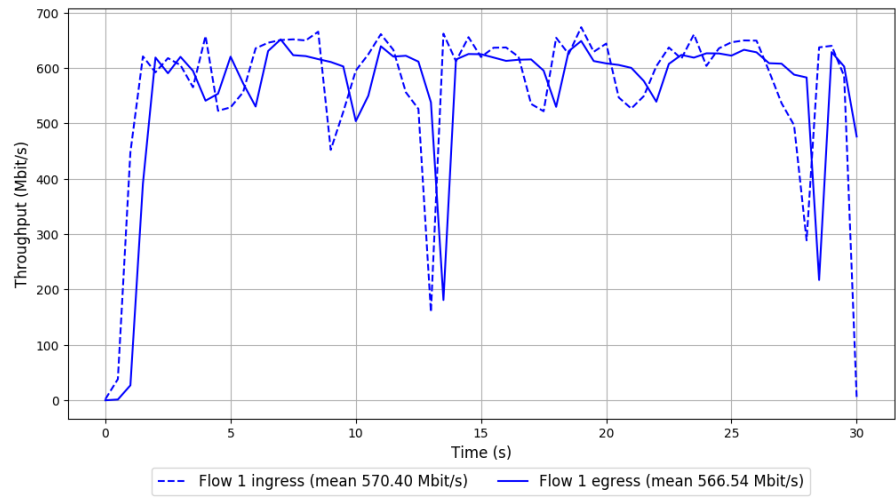
-- Flow 1:

Average throughput: 566.54 Mbit/s

95th percentile per-packet one-way delay: 148.999 ms

Loss rate: 1.05%

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



Run 2: Statistics of TCP BBR

Start at: 2019-09-18 23:28:25

End at: 2019-09-18 23:28:55

Local clock offset: -0.083 ms

Remote clock offset: 0.085 ms

# Below is generated by plot.py at 2019-09-19 02:10:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 549.76 Mbit/s

95th percentile per-packet one-way delay: 161.615 ms

Loss rate: 1.21%

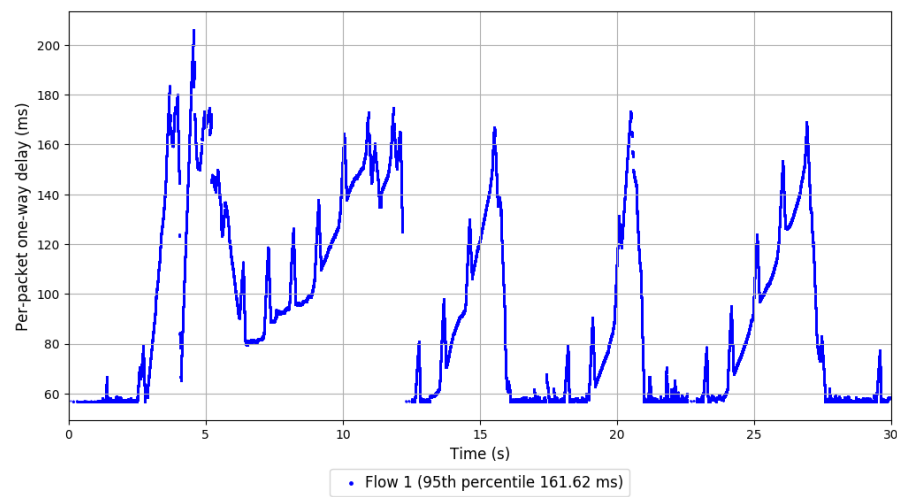
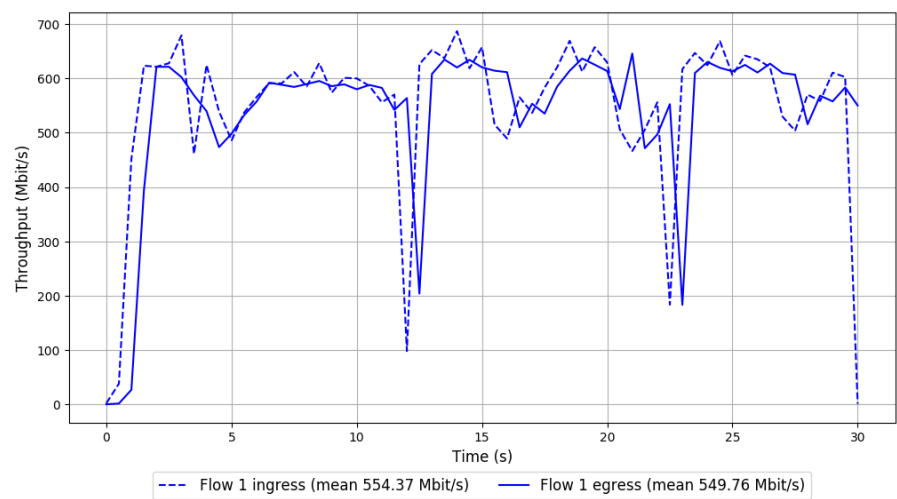
-- Flow 1:

Average throughput: 549.76 Mbit/s

95th percentile per-packet one-way delay: 161.615 ms

Loss rate: 1.21%

Run 2: Report of TCP BBR — Data Link

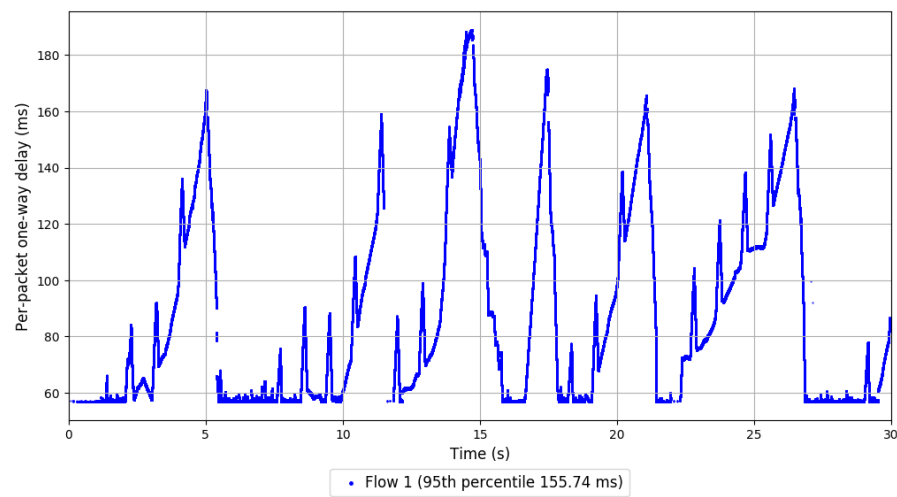
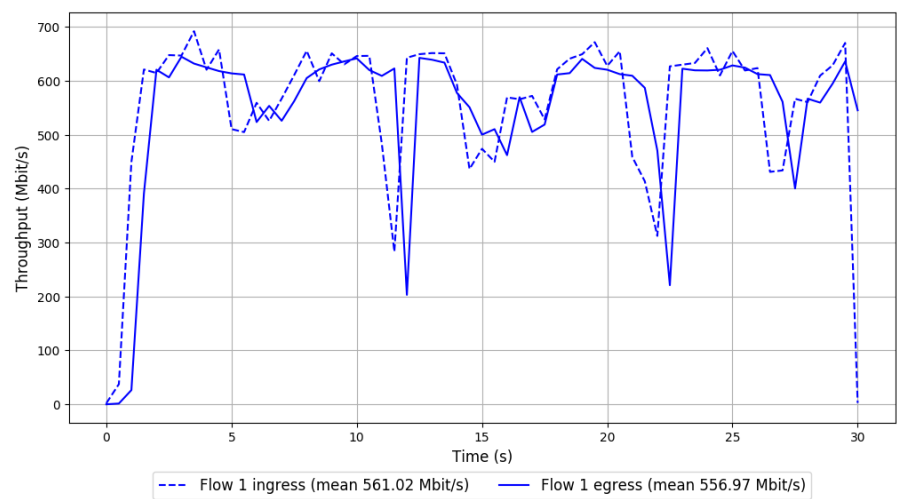


Run 3: Statistics of TCP BBR

Start at: 2019-09-19 00:03:25  
End at: 2019-09-19 00:03:55  
Local clock offset: -0.056 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-09-19 02:10:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 556.97 Mbit/s  
95th percentile per-packet one-way delay: 155.742 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 556.97 Mbit/s  
95th percentile per-packet one-way delay: 155.742 ms  
Loss rate: 1.10%

Run 3: Report of TCP BBR — Data Link

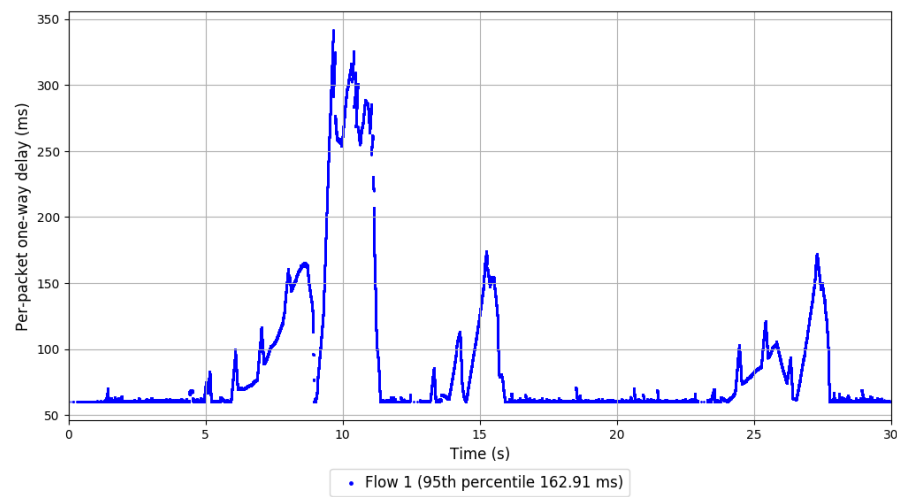
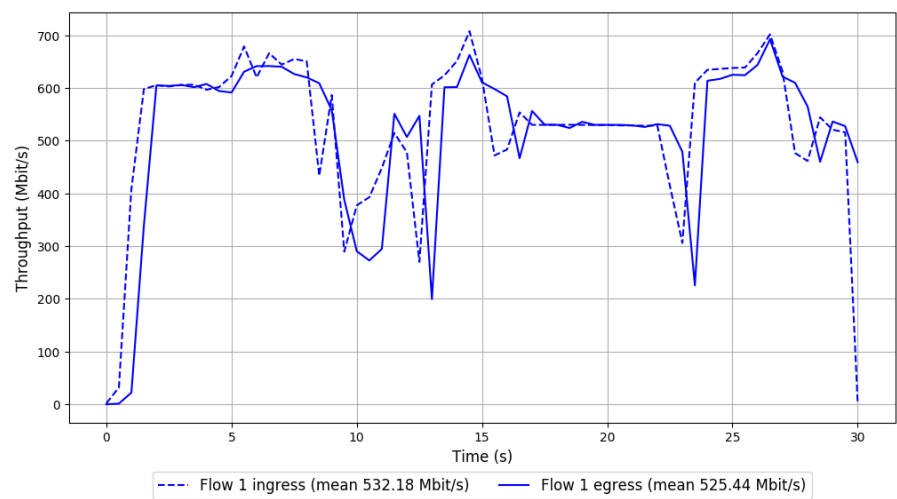


Run 4: Statistics of TCP BBR

Start at: 2019-09-19 00:38:26  
End at: 2019-09-19 00:38:56  
Local clock offset: -0.103 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-09-19 02:10:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 525.44 Mbit/s  
95th percentile per-packet one-way delay: 162.908 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 525.44 Mbit/s  
95th percentile per-packet one-way delay: 162.908 ms  
Loss rate: 1.65%

Run 4: Report of TCP BBR — Data Link



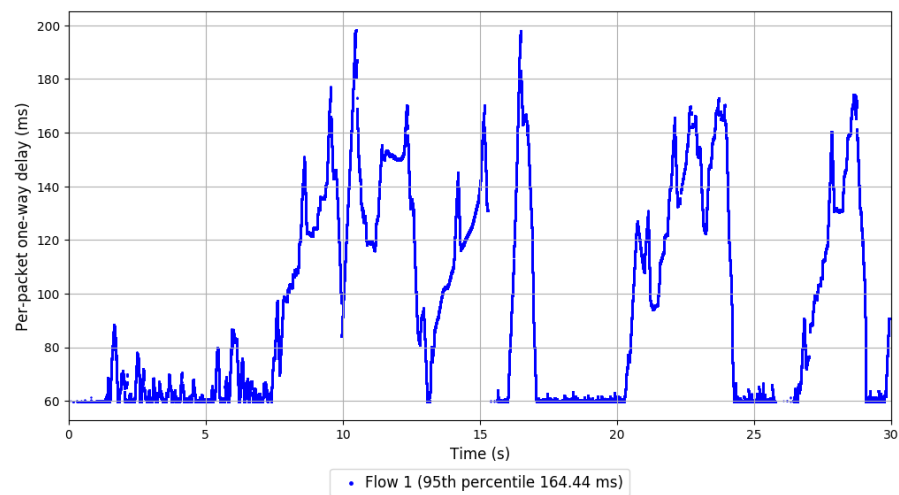
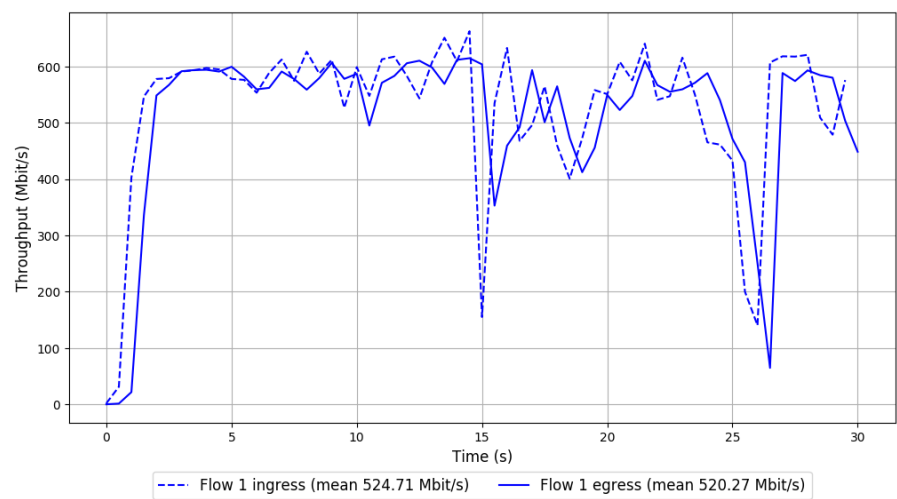


Run 5: Statistics of TCP BBR

Start at: 2019-09-19 01:13:45  
End at: 2019-09-19 01:14:15  
Local clock offset: -0.503 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-09-19 02:10:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 520.27 Mbit/s  
95th percentile per-packet one-way delay: 164.439 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 520.27 Mbit/s  
95th percentile per-packet one-way delay: 164.439 ms  
Loss rate: 1.24%

Run 5: Report of TCP BBR — Data Link

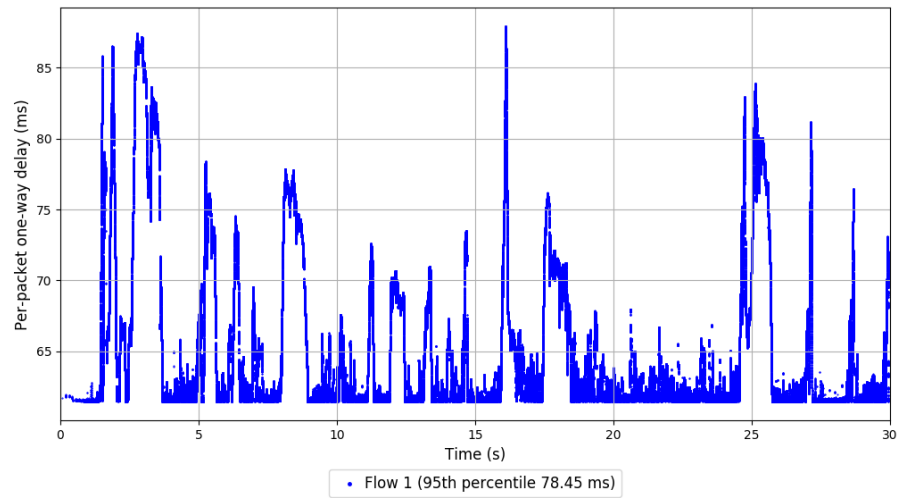
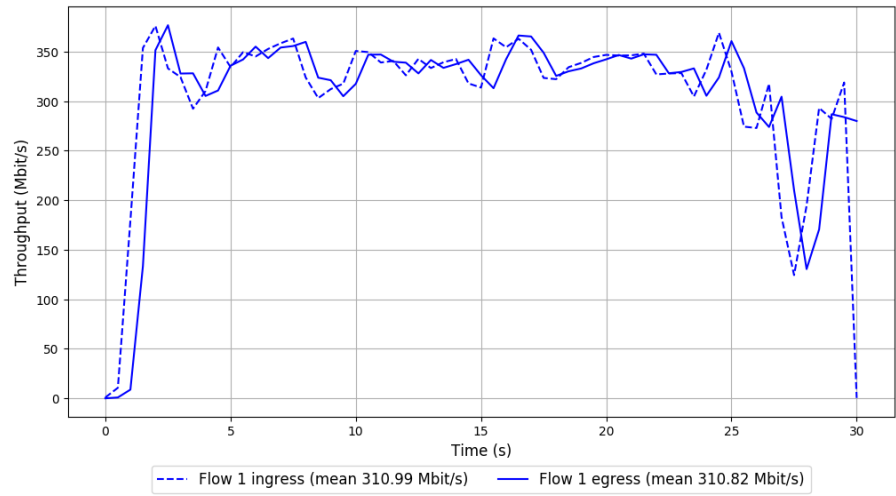


Run 1: Statistics of Copa

Start at: 2019-09-18 23:09:26  
End at: 2019-09-18 23:09:56  
Local clock offset: 0.371 ms  
Remote clock offset: -0.904 ms

# Below is generated by plot.py at 2019-09-19 02:10:16  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 310.82 Mbit/s  
95th percentile per-packet one-way delay: 78.455 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 310.82 Mbit/s  
95th percentile per-packet one-way delay: 78.455 ms  
Loss rate: 0.45%

## Run 1: Report of Copa — Data Link

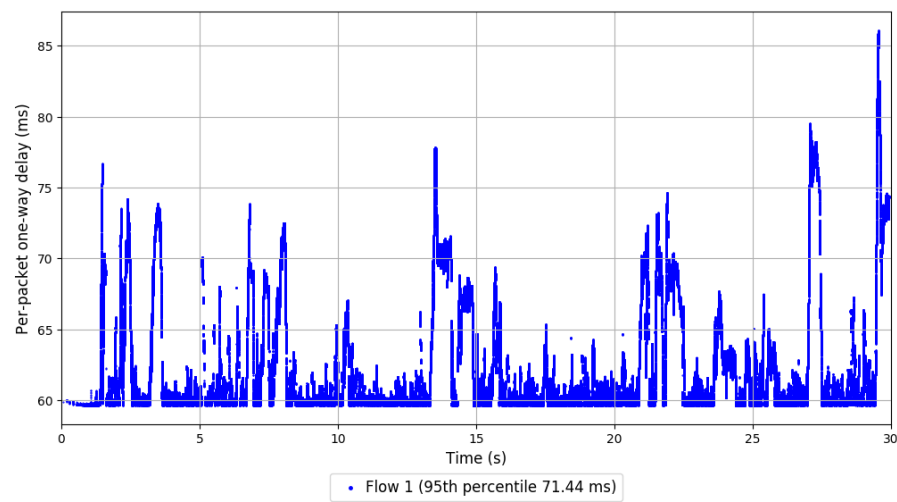
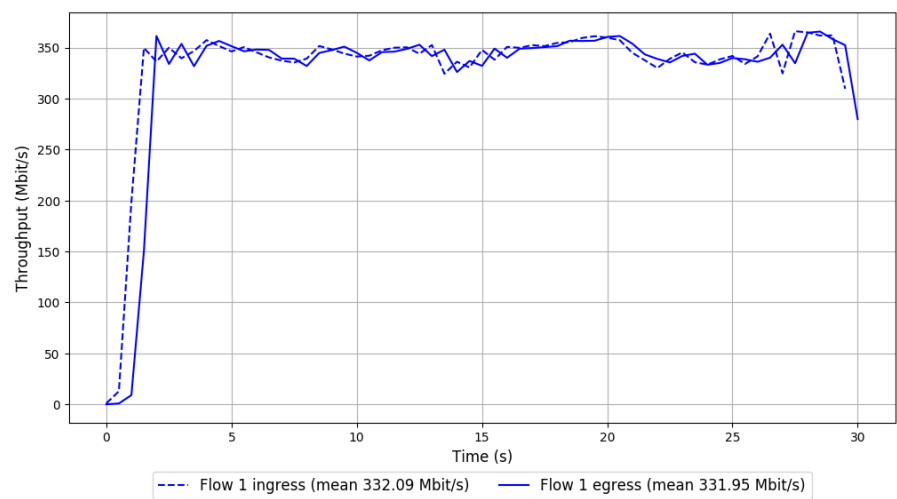


Run 2: Statistics of Copa

Start at: 2019-09-18 23:44:16  
End at: 2019-09-18 23:44:46  
Local clock offset: -0.489 ms  
Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-09-19 02:10:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 331.95 Mbit/s  
95th percentile per-packet one-way delay: 71.443 ms  
Loss rate: 0.43%  
-- Flow 1:  
Average throughput: 331.95 Mbit/s  
95th percentile per-packet one-way delay: 71.443 ms  
Loss rate: 0.43%

Run 2: Report of Copa — Data Link

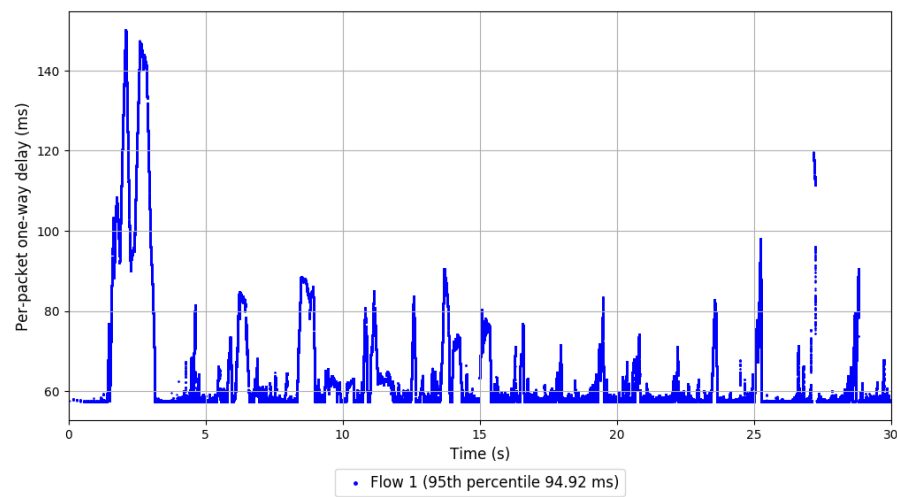
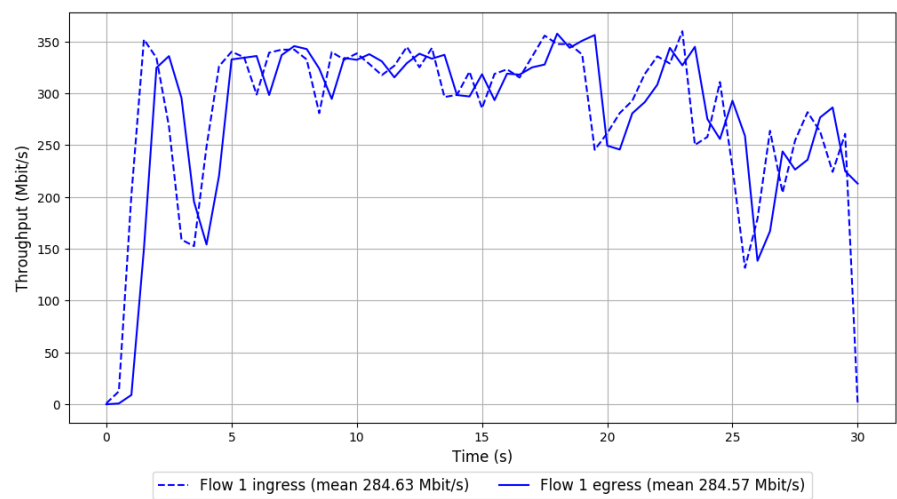


Run 3: Statistics of Copa

Start at: 2019-09-19 00:19:23  
End at: 2019-09-19 00:19:53  
Local clock offset: -0.029 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-09-19 02:10:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 284.57 Mbit/s  
95th percentile per-packet one-way delay: 94.922 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 284.57 Mbit/s  
95th percentile per-packet one-way delay: 94.922 ms  
Loss rate: 0.40%

Run 3: Report of Copa — Data Link



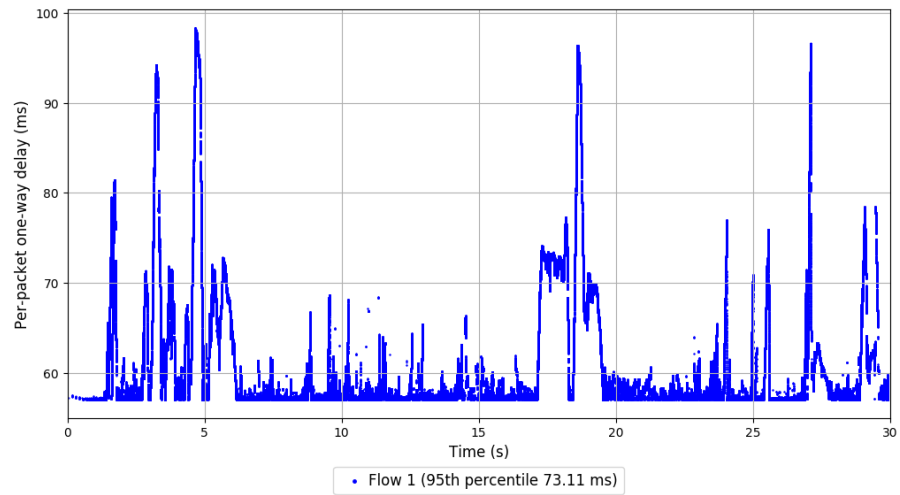
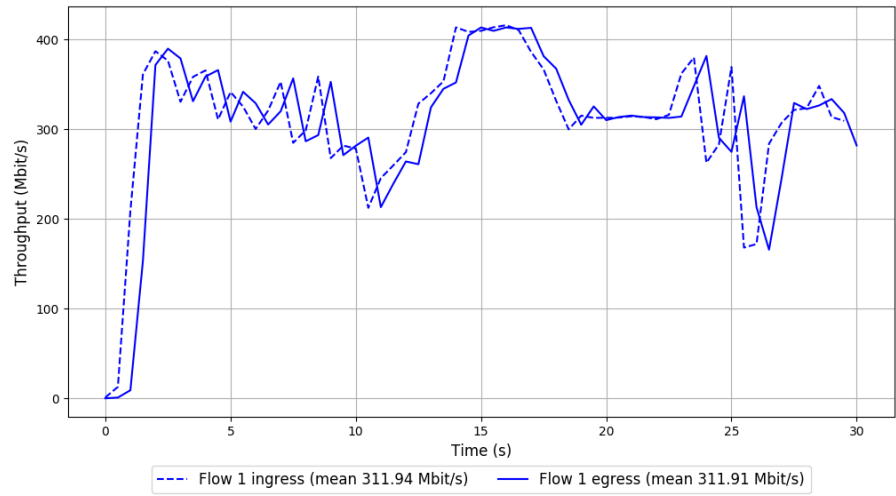


Run 4: Statistics of Copa

Start at: 2019-09-19 00:54:50  
End at: 2019-09-19 00:55:20  
Local clock offset: -0.053 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-09-19 02:18:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 311.91 Mbit/s  
95th percentile per-packet one-way delay: 73.115 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 311.91 Mbit/s  
95th percentile per-packet one-way delay: 73.115 ms  
Loss rate: 0.39%

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

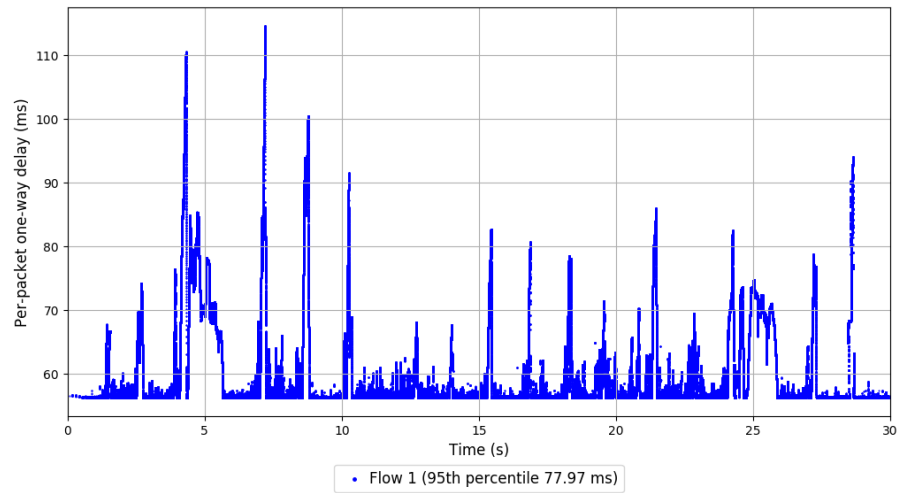
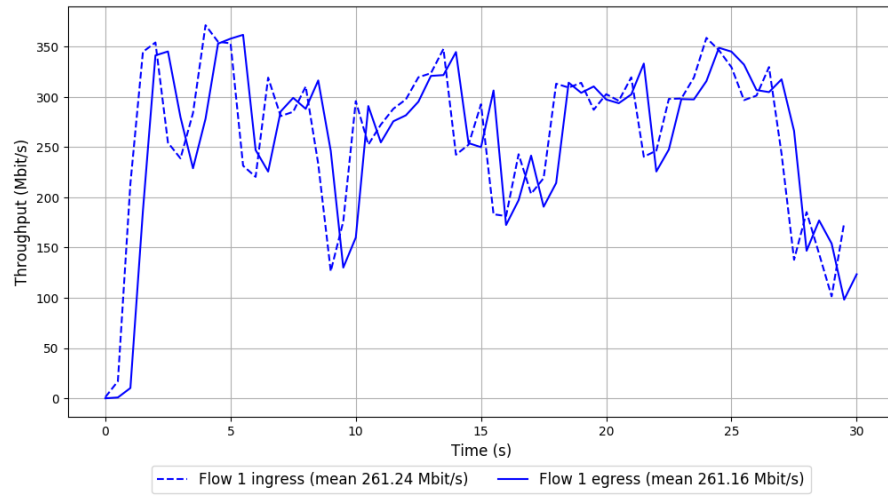


Run 5: Statistics of Copa

Start at: 2019-09-19 01:30:00  
End at: 2019-09-19 01:30:30  
Local clock offset: -0.477 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-09-19 02:18:53  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 261.16 Mbit/s  
95th percentile per-packet one-way delay: 77.965 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 261.16 Mbit/s  
95th percentile per-packet one-way delay: 77.965 ms  
Loss rate: 0.41%

## Run 5: Report of Copa — Data Link

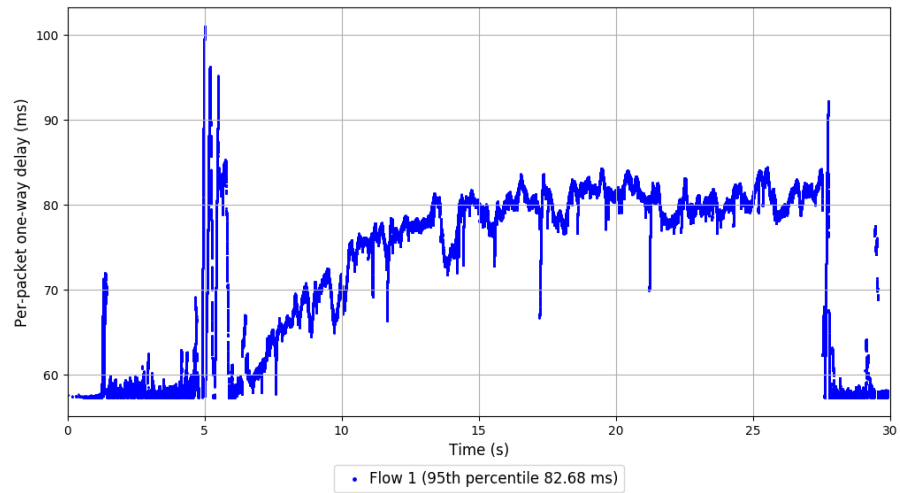
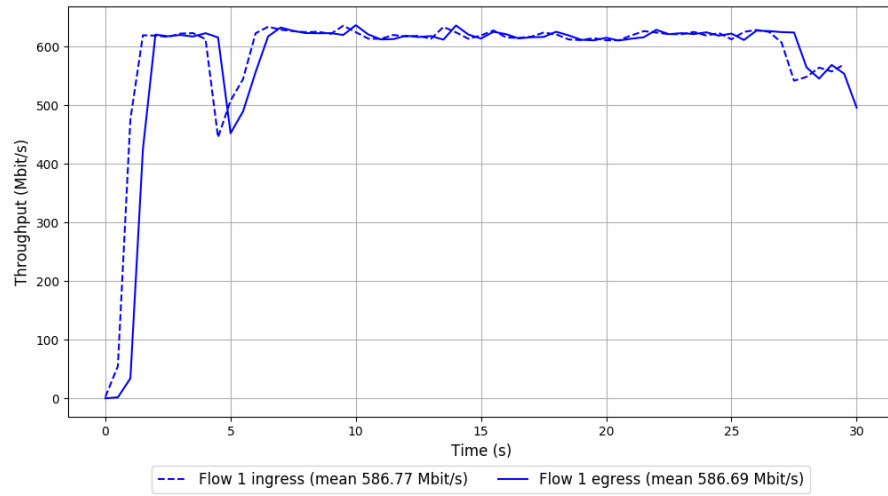


Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 22:56:27  
End at: 2019-09-18 22:56:57  
Local clock offset: 0.048 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-09-19 02:19:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 586.69 Mbit/s  
95th percentile per-packet one-way delay: 82.682 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 586.69 Mbit/s  
95th percentile per-packet one-way delay: 82.682 ms  
Loss rate: 0.39%

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

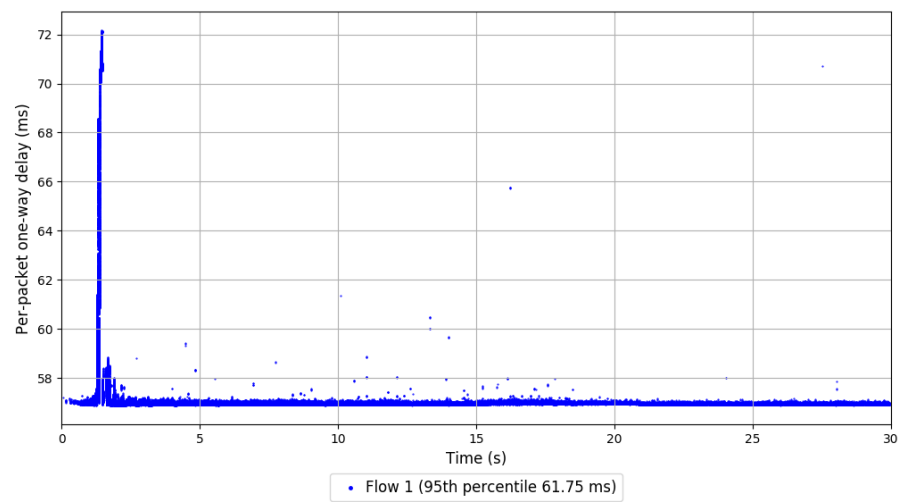
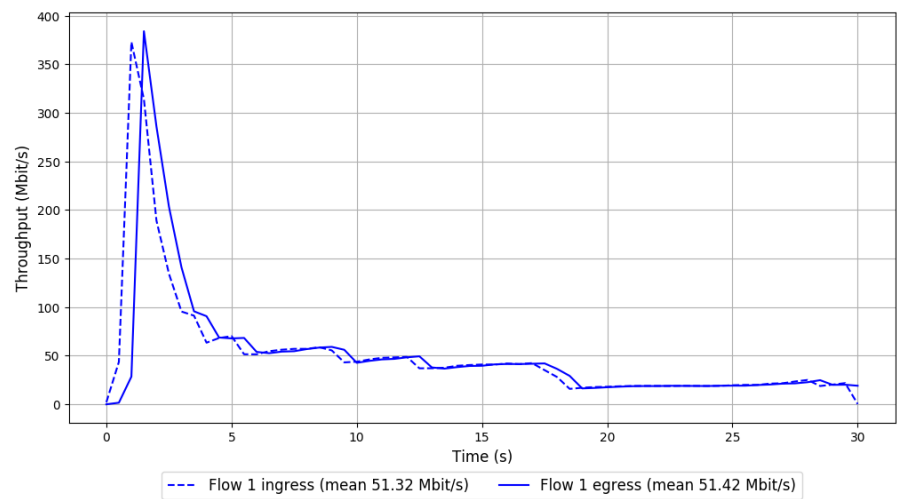


Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 23:31:37  
End at: 2019-09-18 23:32:07  
Local clock offset: -0.088 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-09-19 02:19:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 51.42 Mbit/s  
95th percentile per-packet one-way delay: 61.747 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 51.42 Mbit/s  
95th percentile per-packet one-way delay: 61.747 ms  
Loss rate: 0.18%

Run 2: Report of TCP Cubic — Data Link



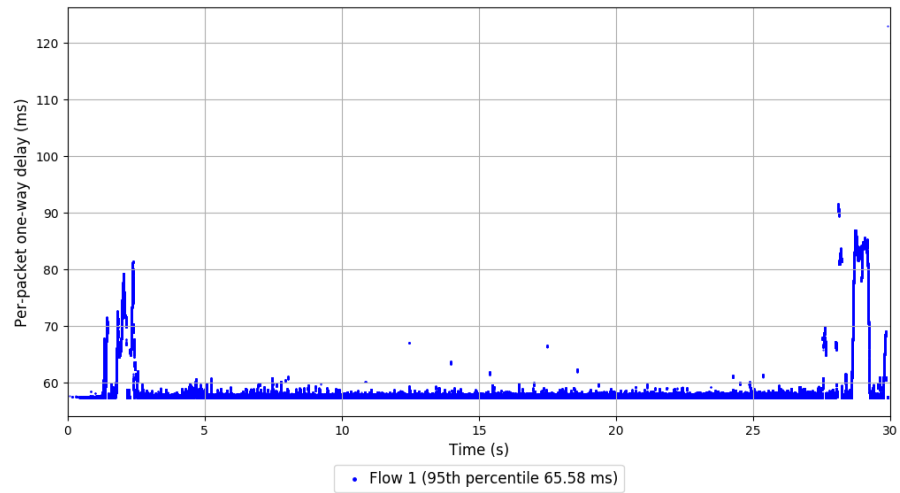
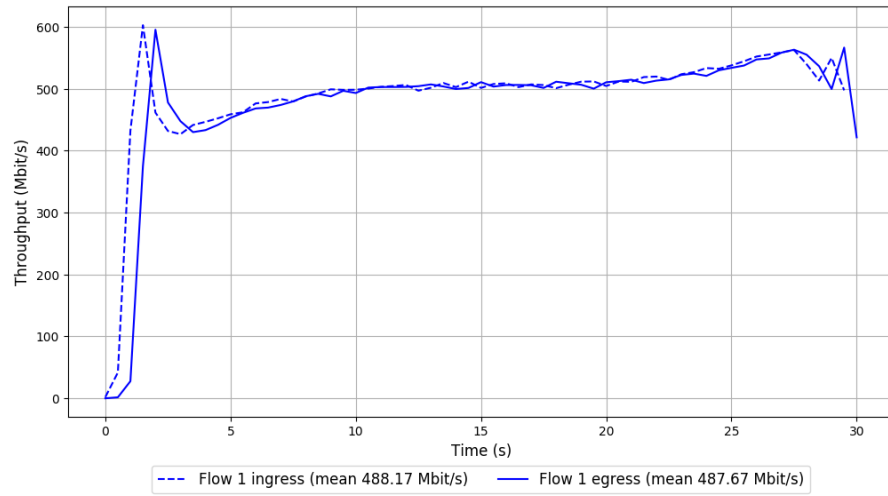


Run 3: Statistics of TCP Cubic

Start at: 2019-09-19 00:06:38  
End at: 2019-09-19 00:07:08  
Local clock offset: -0.083 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-09-19 02:19:06  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 487.67 Mbit/s  
95th percentile per-packet one-way delay: 65.578 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 487.67 Mbit/s  
95th percentile per-packet one-way delay: 65.578 ms  
Loss rate: 0.48%

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

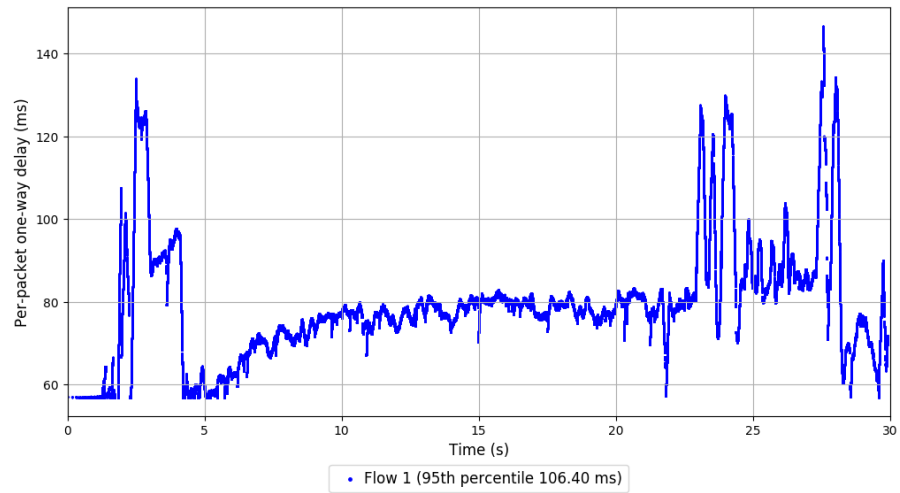
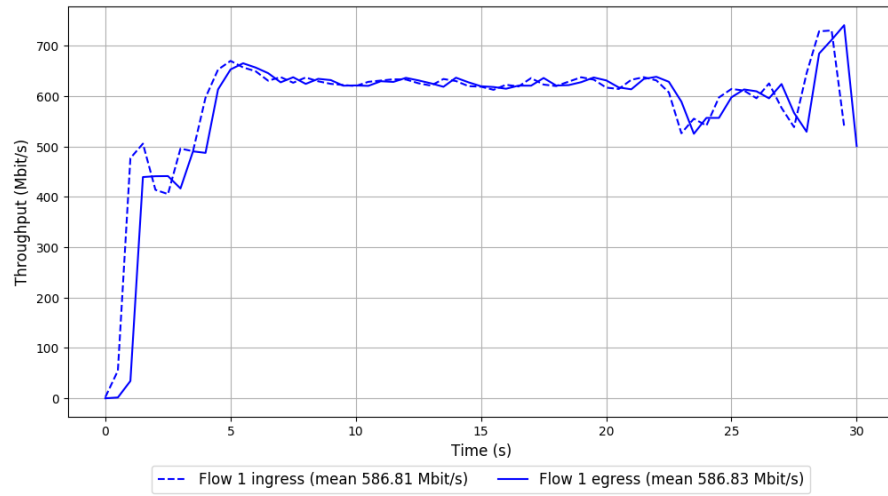


Run 4: Statistics of TCP Cubic

Start at: 2019-09-19 00:41:36  
End at: 2019-09-19 00:42:06  
Local clock offset: -0.081 ms  
Remote clock offset: -0.111 ms

# Below is generated by plot.py at 2019-09-19 02:19:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 586.83 Mbit/s  
95th percentile per-packet one-way delay: 106.400 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 586.83 Mbit/s  
95th percentile per-packet one-way delay: 106.400 ms  
Loss rate: 0.38%

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

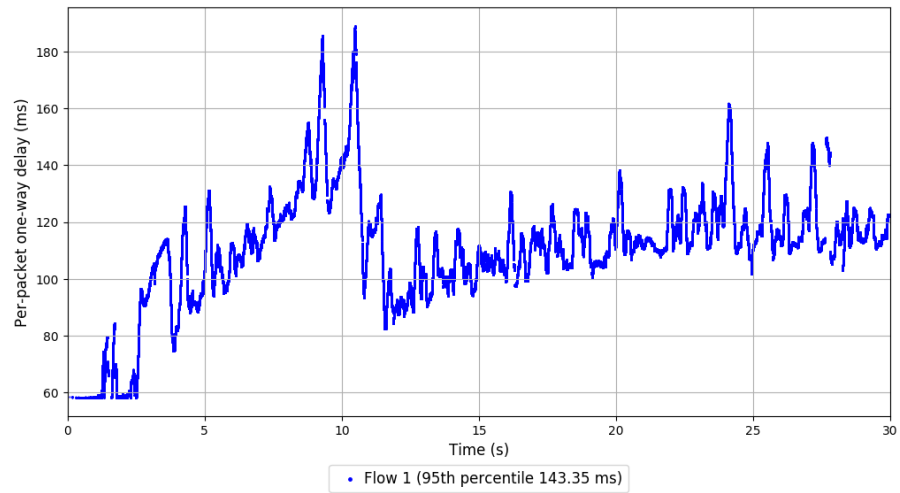
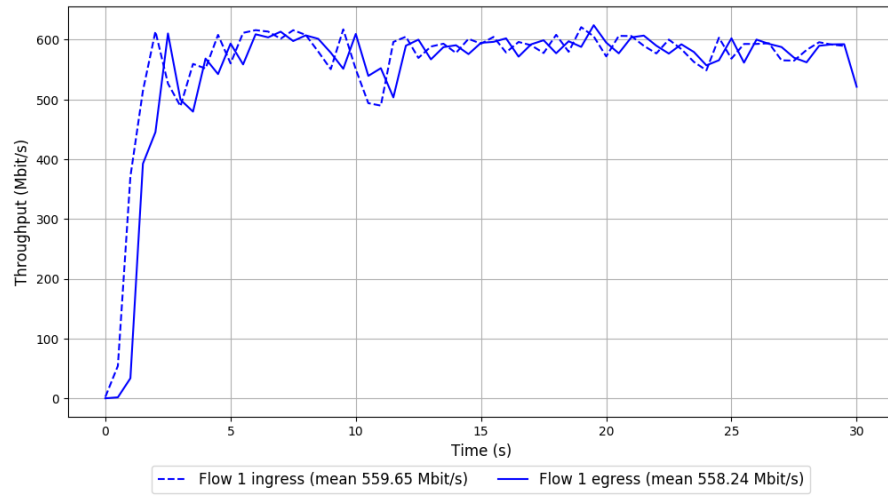


Run 5: Statistics of TCP Cubic

Start at: 2019-09-19 01:16:57  
End at: 2019-09-19 01:17:27  
Local clock offset: 0.343 ms  
Remote clock offset: -0.947 ms

# Below is generated by plot.py at 2019-09-19 02:19:40  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 558.24 Mbit/s  
95th percentile per-packet one-way delay: 143.355 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 558.24 Mbit/s  
95th percentile per-packet one-way delay: 143.355 ms  
Loss rate: 0.63%

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

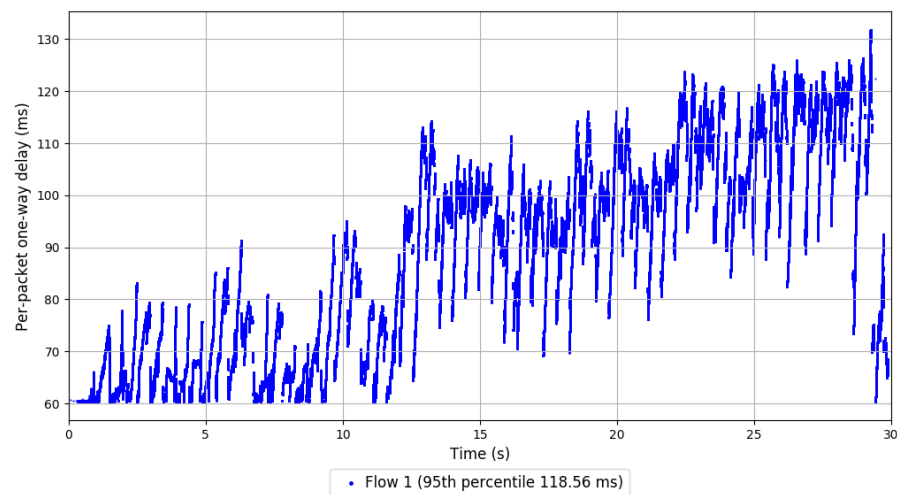
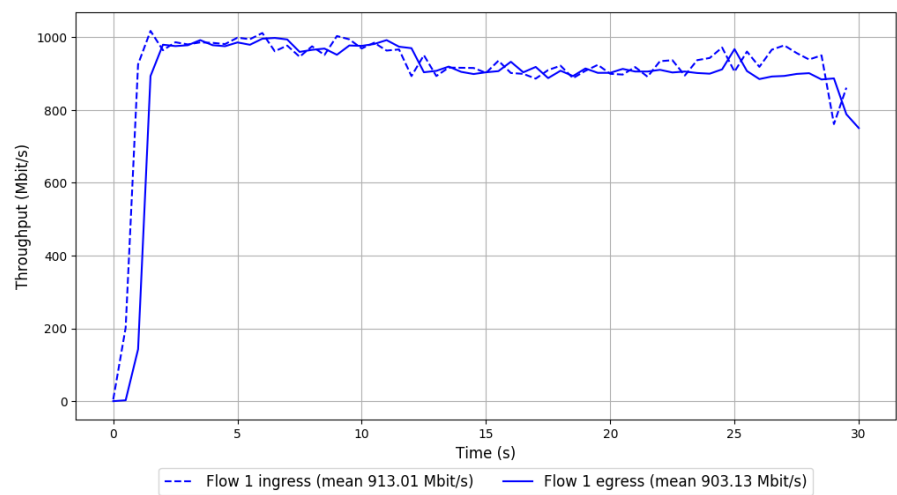


Run 1: Statistics of FillP

Start at: 2019-09-18 23:13:47  
End at: 2019-09-18 23:14:17  
Local clock offset: 0.108 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-09-19 02:27:58  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 903.13 Mbit/s  
95th percentile per-packet one-way delay: 118.557 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 903.13 Mbit/s  
95th percentile per-packet one-way delay: 118.557 ms  
Loss rate: 1.47%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-09-18 23:48:47

End at: 2019-09-18 23:49:17

Local clock offset: -0.352 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-09-19 02:27:58

# Datalink statistics

-- Total of 1 flow:

Average throughput: 886.04 Mbit/s

95th percentile per-packet one-way delay: 117.423 ms

Loss rate: 1.31%

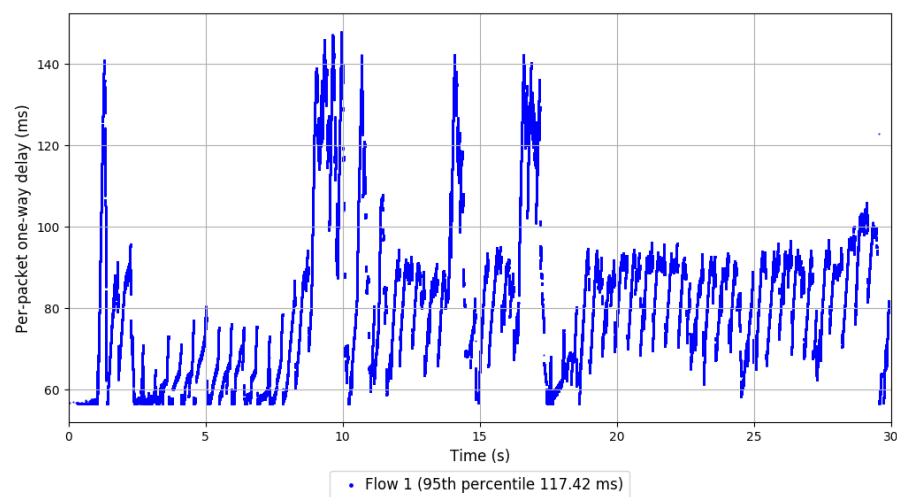
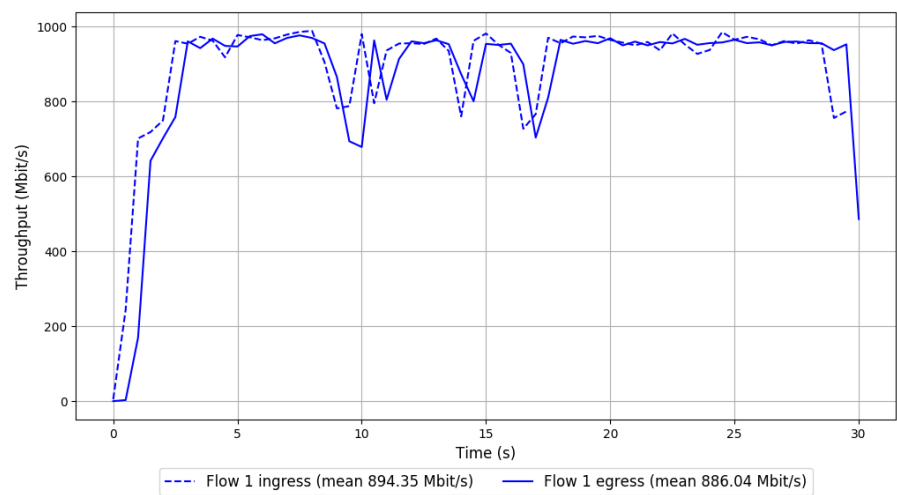
-- Flow 1:

Average throughput: 886.04 Mbit/s

95th percentile per-packet one-way delay: 117.423 ms

Loss rate: 1.31%

Run 2: Report of FillP — Data Link

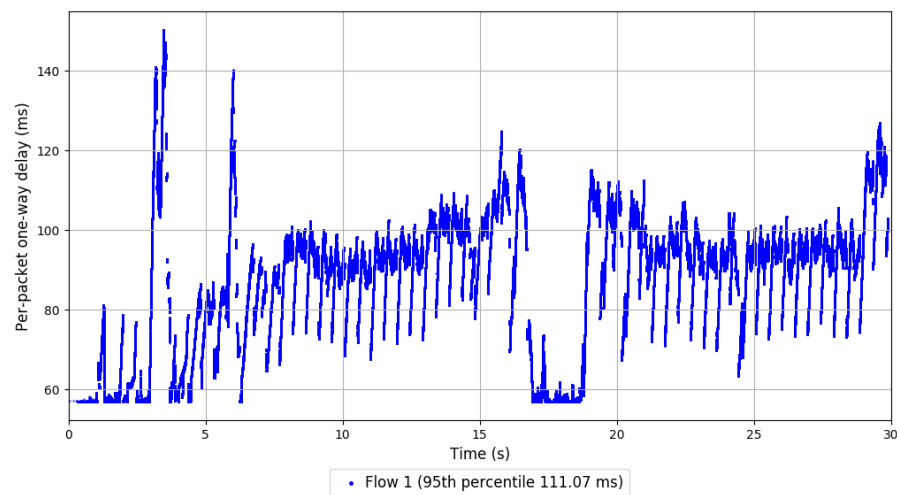
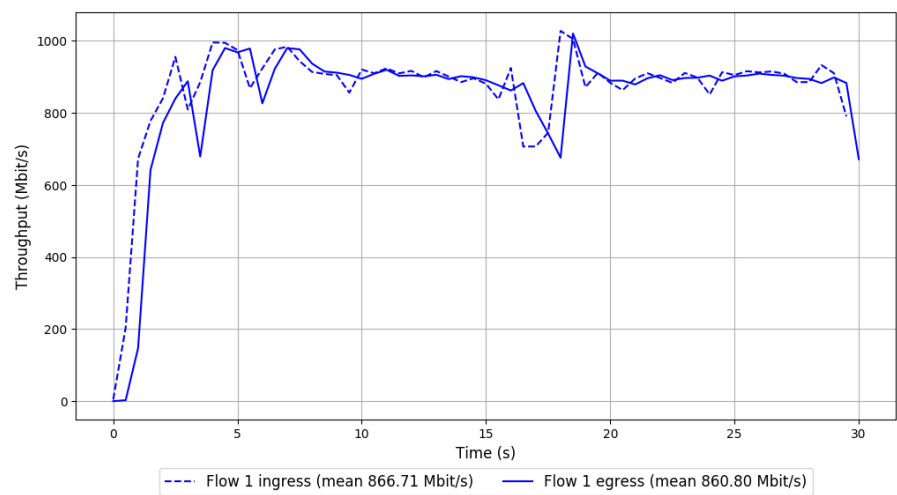


Run 3: Statistics of FillP

Start at: 2019-09-19 00:23:41  
End at: 2019-09-19 00:24:11  
Local clock offset: 0.081 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-09-19 02:36:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 860.80 Mbit/s  
95th percentile per-packet one-way delay: 111.066 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 860.80 Mbit/s  
95th percentile per-packet one-way delay: 111.066 ms  
Loss rate: 1.06%

Run 3: Report of FillP — Data Link

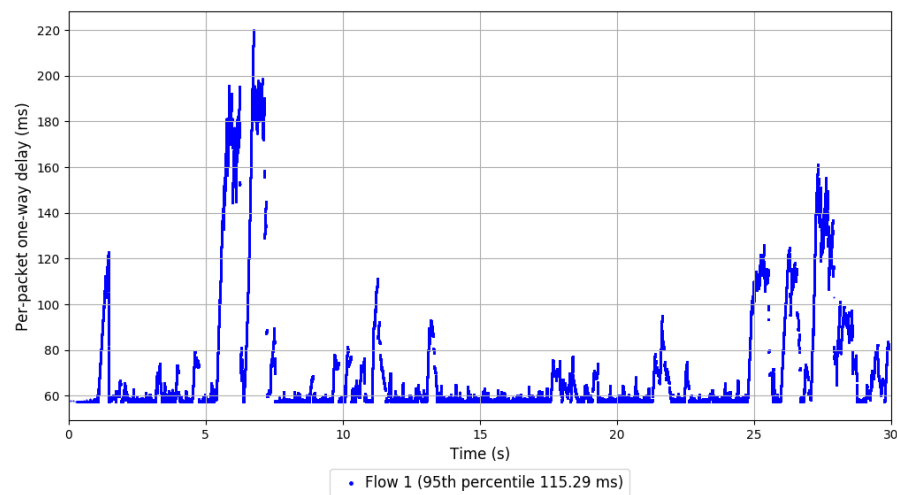
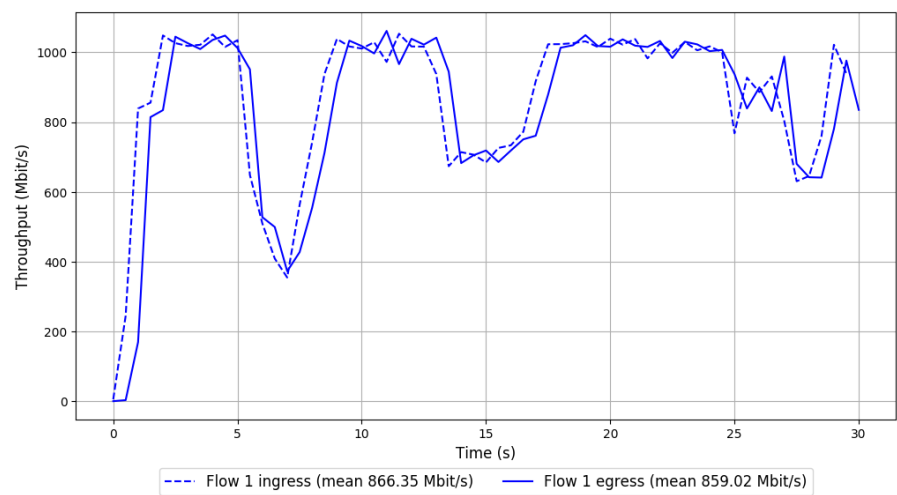


Run 4: Statistics of FillP

Start at: 2019-09-19 00:59:10  
End at: 2019-09-19 00:59:40  
Local clock offset: 0.184 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-09-19 02:36:18  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 859.02 Mbit/s  
95th percentile per-packet one-way delay: 115.292 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 859.02 Mbit/s  
95th percentile per-packet one-way delay: 115.292 ms  
Loss rate: 1.23%

Run 4: Report of FillP — Data Link

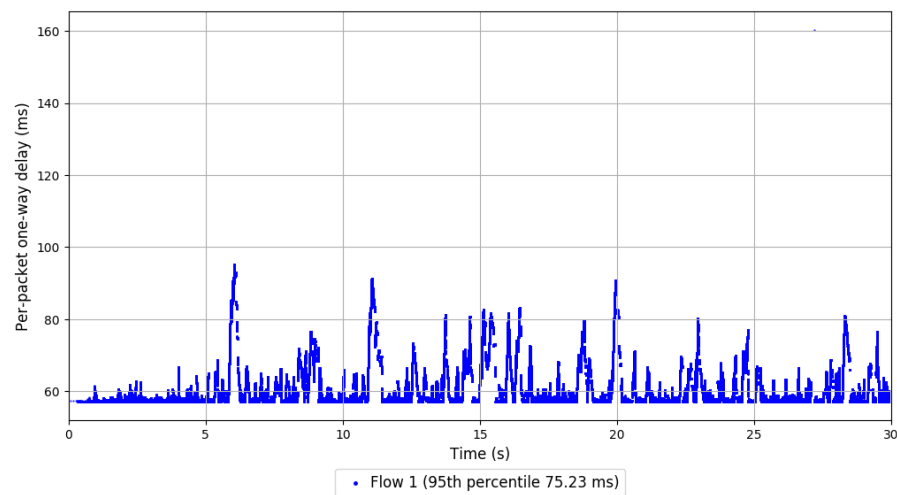
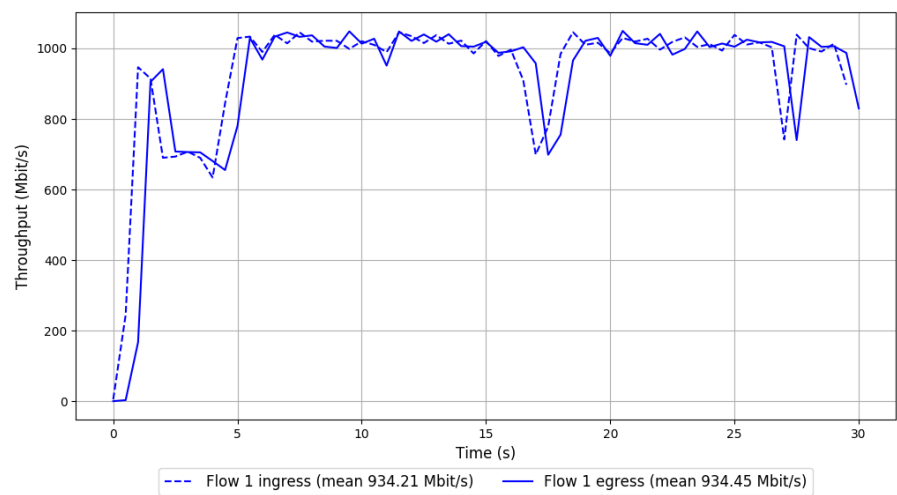


Run 5: Statistics of FillP

Start at: 2019-09-19 01:34:23  
End at: 2019-09-19 01:34:53  
Local clock offset: 0.202 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-09-19 02:38:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 934.45 Mbit/s  
95th percentile per-packet one-way delay: 75.229 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 934.45 Mbit/s  
95th percentile per-packet one-way delay: 75.229 ms  
Loss rate: 0.36%

Run 5: Report of FillP — Data Link



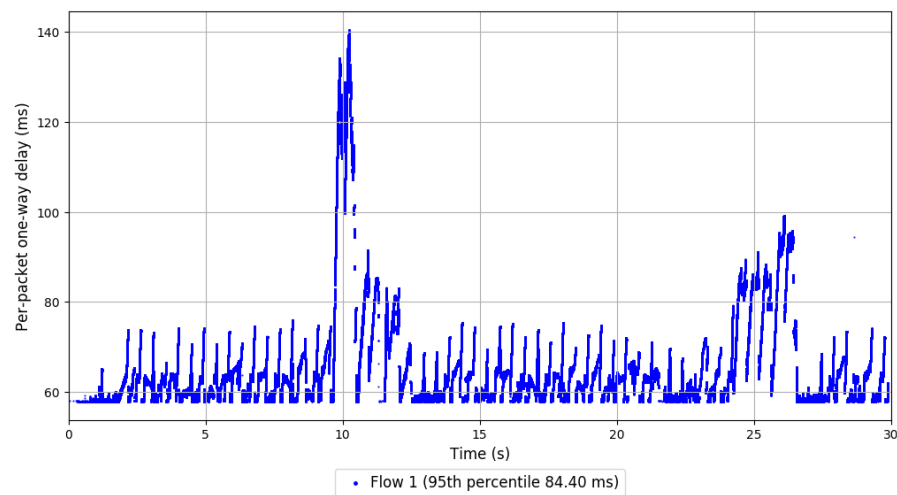
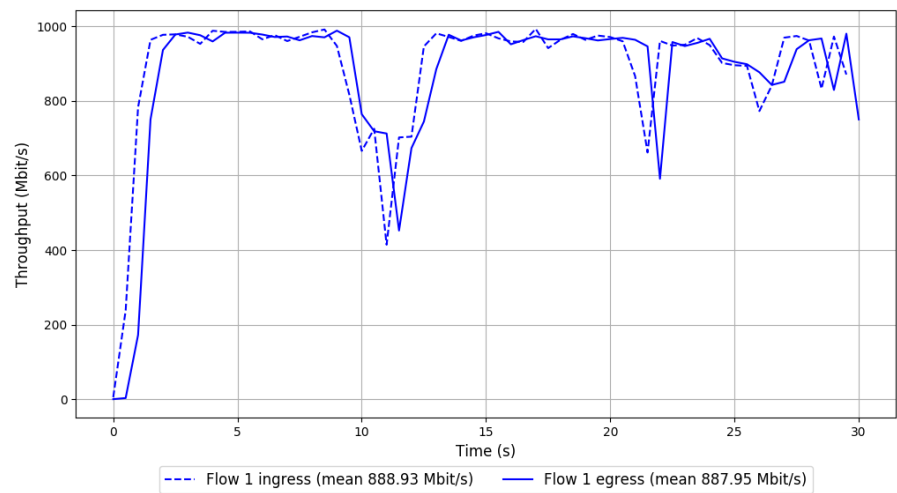


Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 23:17:00  
End at: 2019-09-18 23:17:30  
Local clock offset: -0.022 ms  
Remote clock offset: -0.805 ms

# Below is generated by plot.py at 2019-09-19 02:38:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 887.95 Mbit/s  
95th percentile per-packet one-way delay: 84.397 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 887.95 Mbit/s  
95th percentile per-packet one-way delay: 84.397 ms  
Loss rate: 0.49%

Run 1: Report of FillP-Sheep — Data Link

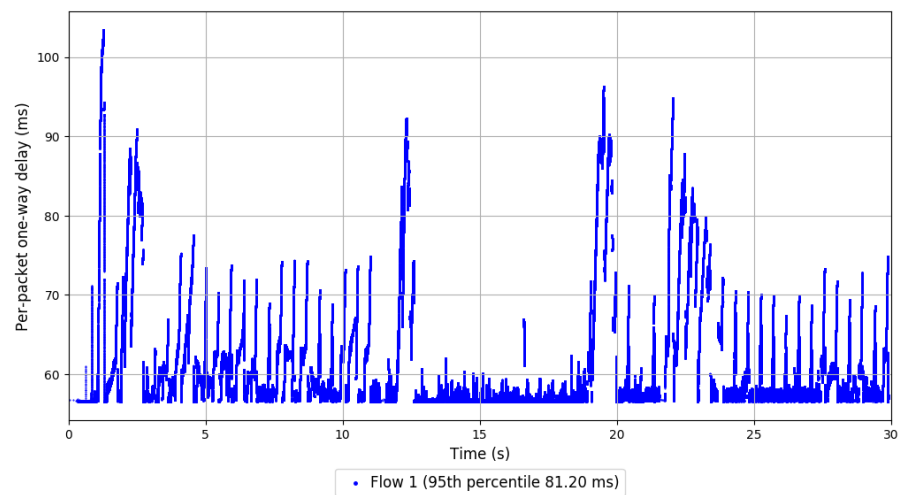
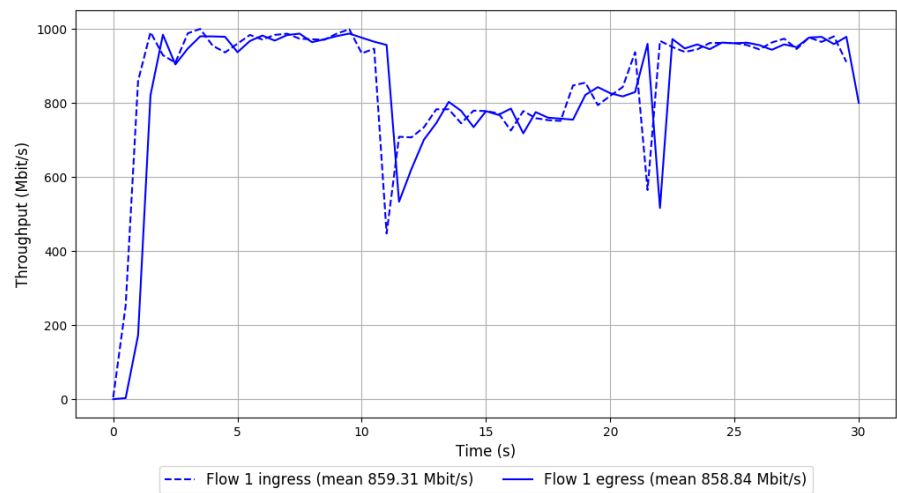


Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 23:52:01  
End at: 2019-09-18 23:52:31  
Local clock offset: -0.501 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-09-19 02:38:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 858.84 Mbit/s  
95th percentile per-packet one-way delay: 81.196 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 858.84 Mbit/s  
95th percentile per-packet one-way delay: 81.196 ms  
Loss rate: 0.44%

Run 2: Report of FillP-Sheep — Data Link

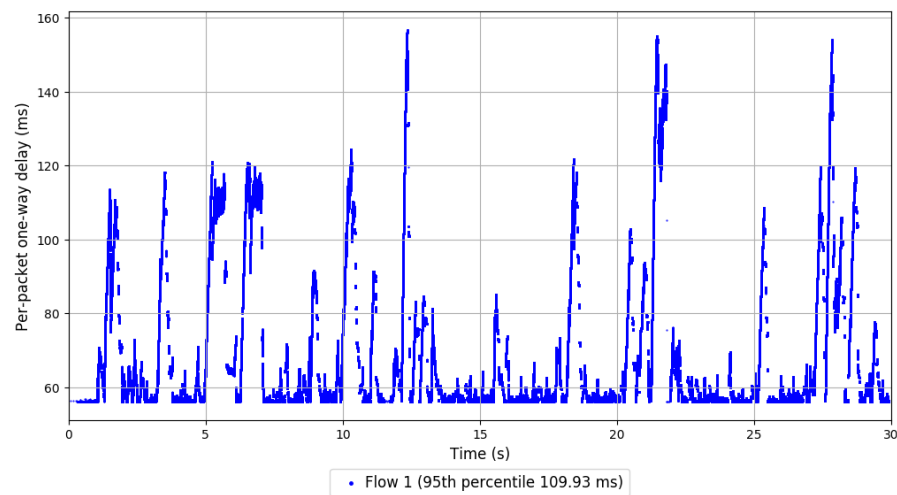
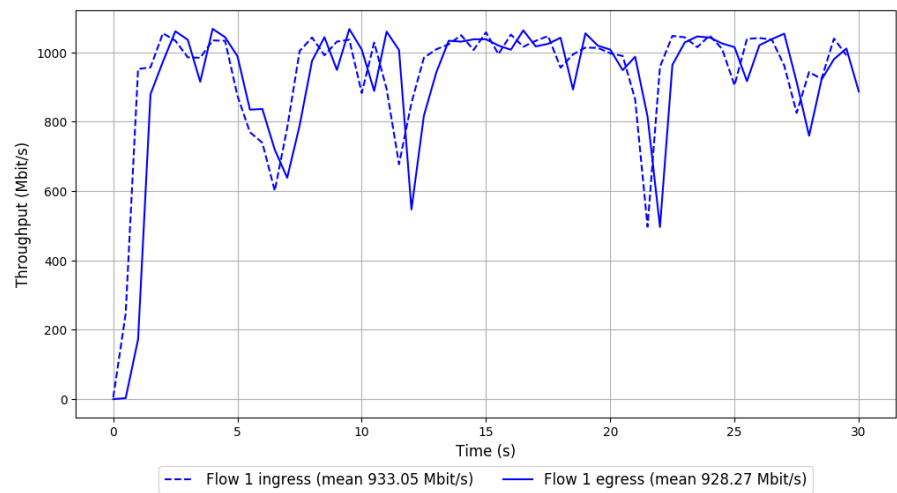


Run 3: Statistics of FillP-Sheep

Start at: 2019-09-19 00:27:01  
End at: 2019-09-19 00:27:31  
Local clock offset: -0.067 ms  
Remote clock offset: 0.624 ms

# Below is generated by plot.py at 2019-09-19 02:38:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 928.27 Mbit/s  
95th percentile per-packet one-way delay: 109.927 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 928.27 Mbit/s  
95th percentile per-packet one-way delay: 109.927 ms  
Loss rate: 0.89%

Run 3: Report of FillP-Sheep — Data Link

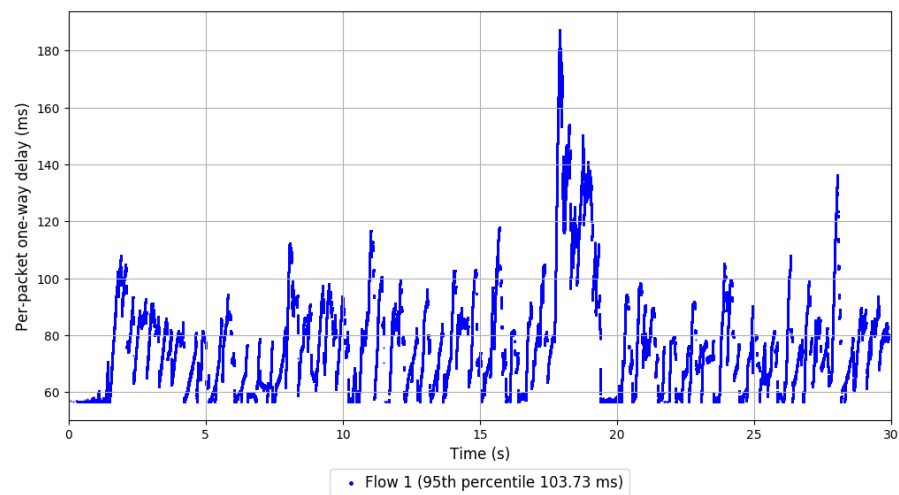
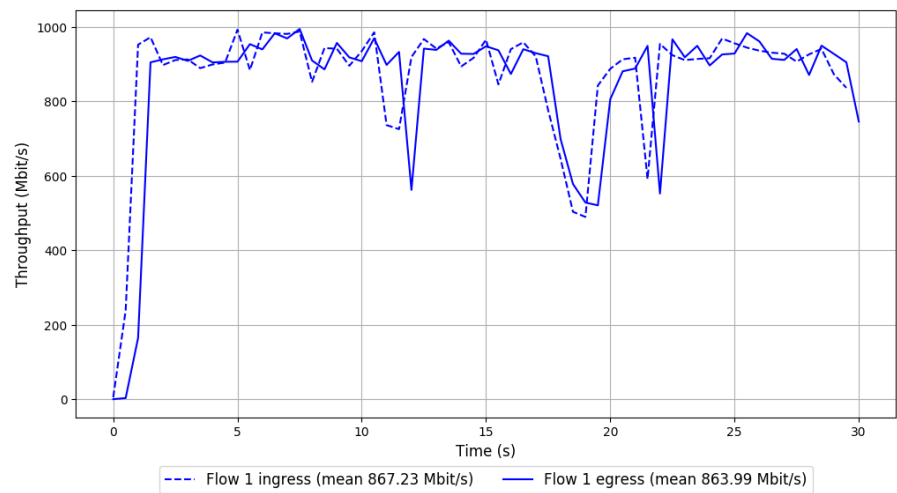


Run 4: Statistics of FillP-Sheep

Start at: 2019-09-19 01:02:27  
End at: 2019-09-19 01:02:57  
Local clock offset: -0.079 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-09-19 02:47:29  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 863.99 Mbit/s  
95th percentile per-packet one-way delay: 103.726 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 863.99 Mbit/s  
95th percentile per-packet one-way delay: 103.726 ms  
Loss rate: 0.76%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-09-19 01:37:38

End at: 2019-09-19 01:38:08

Local clock offset: -0.124 ms

Remote clock offset: -0.24 ms

# Below is generated by plot.py at 2019-09-19 02:48:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 882.26 Mbit/s

95th percentile per-packet one-way delay: 97.004 ms

Loss rate: 0.41%

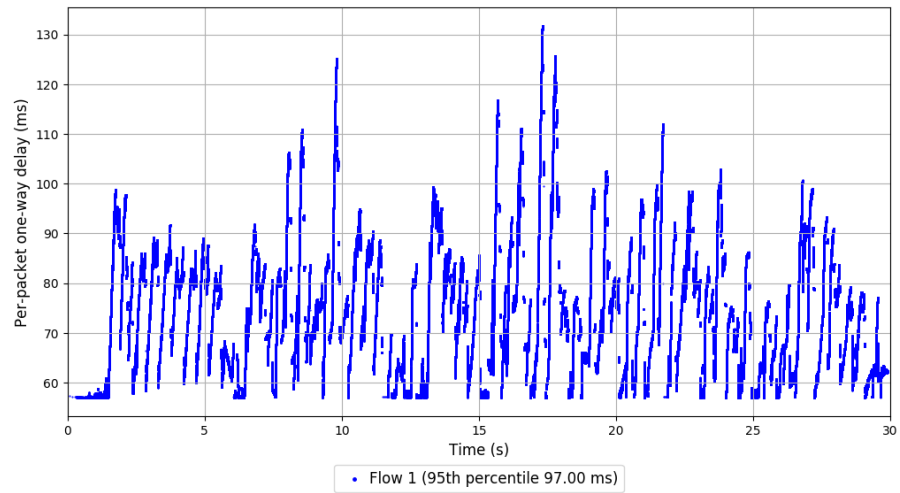
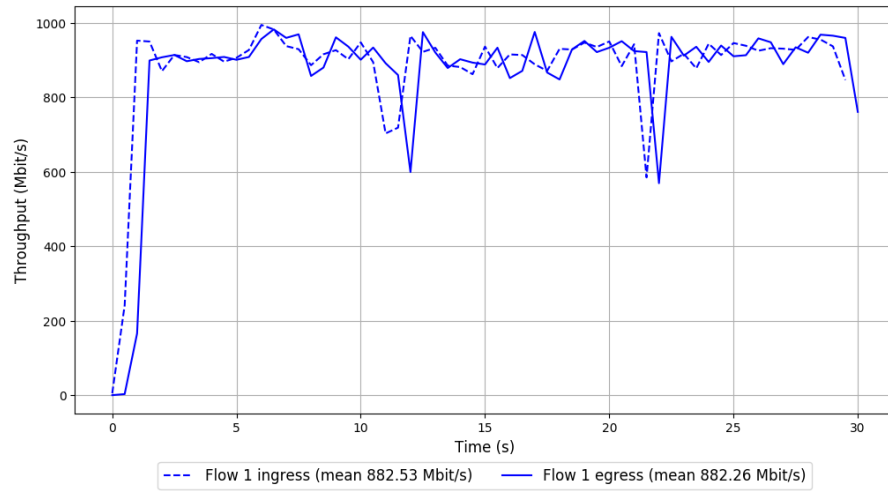
-- Flow 1:

Average throughput: 882.26 Mbit/s

95th percentile per-packet one-way delay: 97.004 ms

Loss rate: 0.41%

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

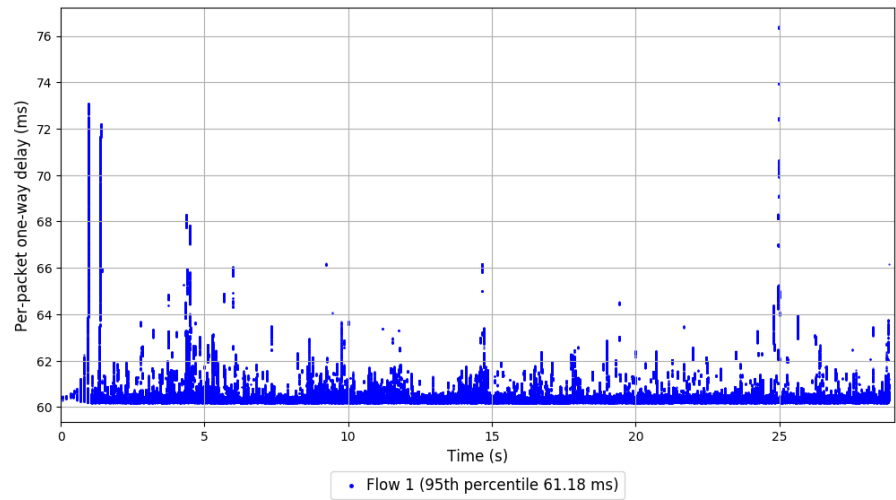
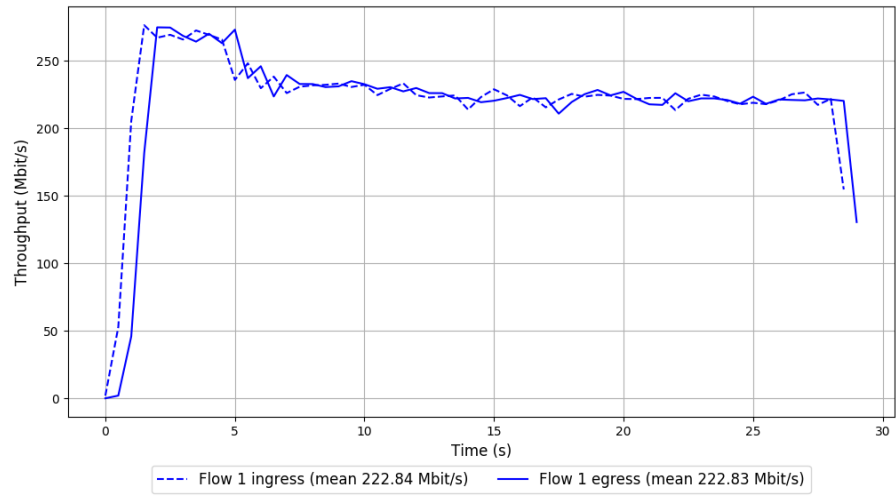


```
Run 1: Statistics of Indigo

Start at: 2019-09-18 23:04:57
End at: 2019-09-18 23:05:27
Local clock offset: 0.131 ms
Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-09-19 02:48:19
# Datalink statistics
-- Total of 1 flow:
Average throughput: 222.83 Mbit/s
95th percentile per-packet one-way delay: 61.181 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 222.83 Mbit/s
95th percentile per-packet one-way delay: 61.181 ms
Loss rate: 0.40%
```

## Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-09-18 23:39:48

End at: 2019-09-18 23:40:18

Local clock offset: 0.338 ms

Remote clock offset: 0.534 ms

# Below is generated by plot.py at 2019-09-19 02:48:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 225.62 Mbit/s

95th percentile per-packet one-way delay: 57.317 ms

Loss rate: 0.34%

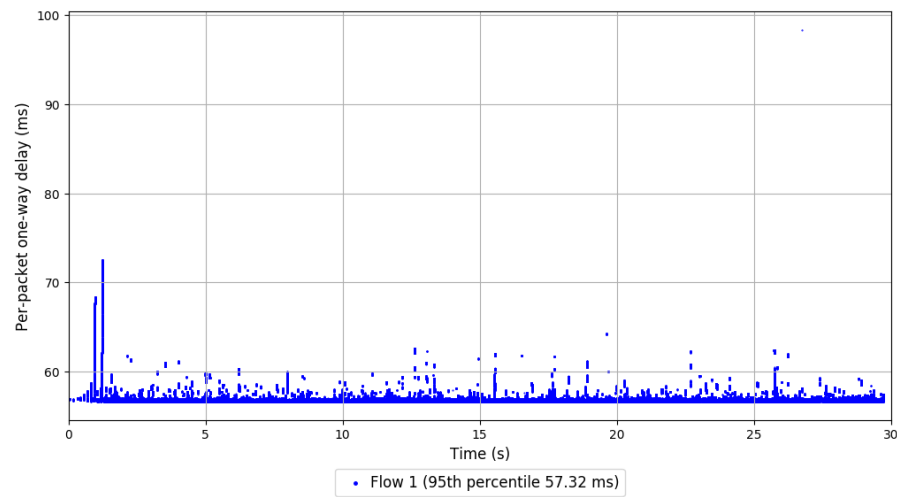
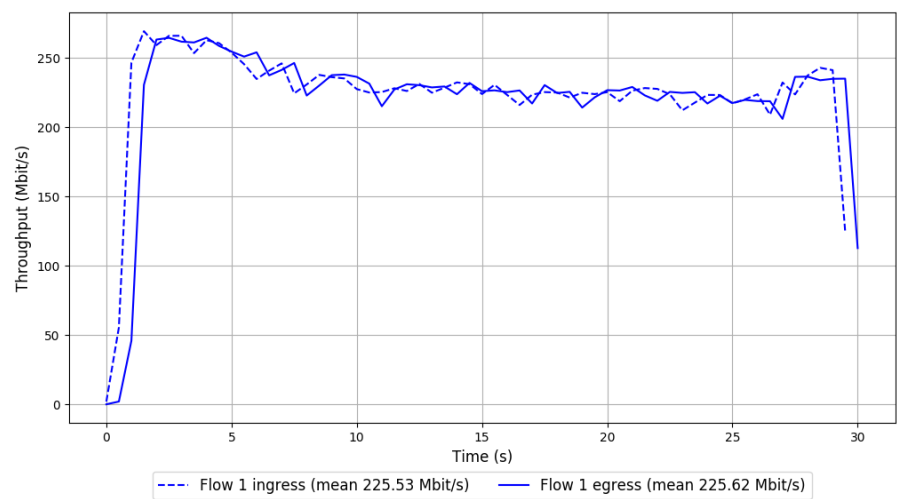
-- Flow 1:

Average throughput: 225.62 Mbit/s

95th percentile per-packet one-way delay: 57.317 ms

Loss rate: 0.34%

Run 2: Report of Indigo — Data Link

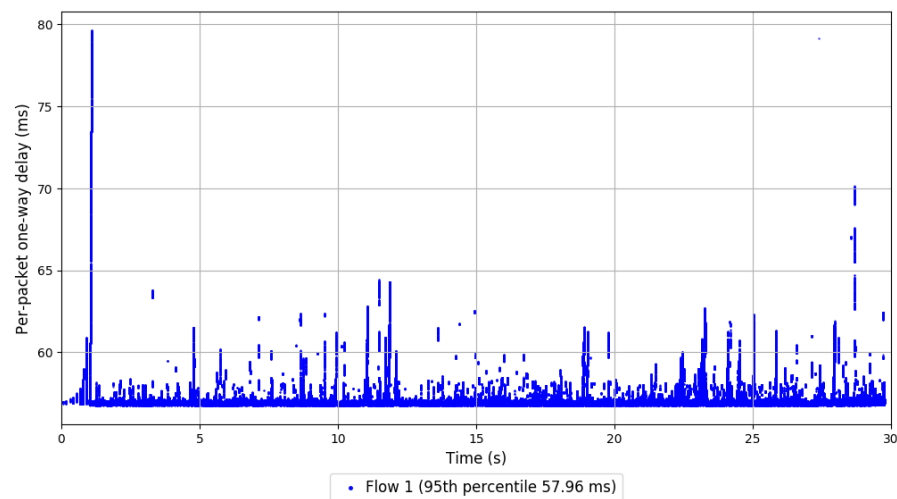
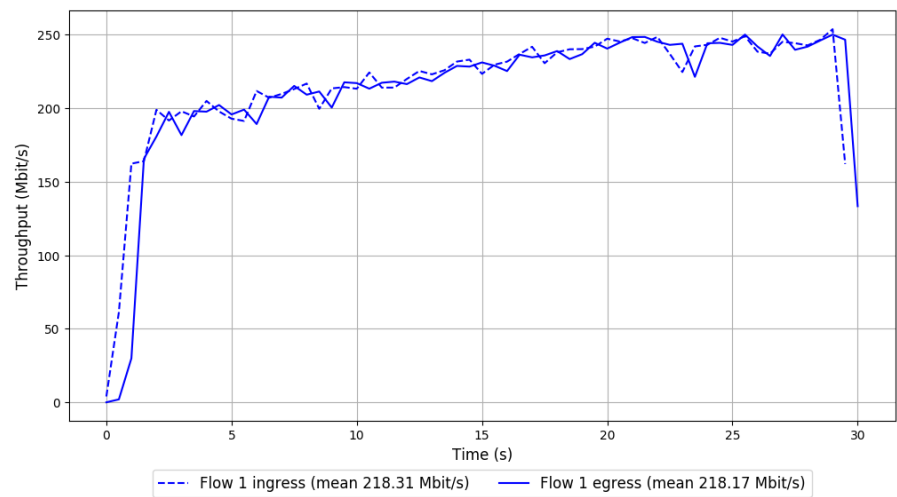


Run 3: Statistics of Indigo

Start at: 2019-09-19 00:14:58  
End at: 2019-09-19 00:15:28  
Local clock offset: -0.441 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-09-19 02:48:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 218.17 Mbit/s  
95th percentile per-packet one-way delay: 57.956 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 218.17 Mbit/s  
95th percentile per-packet one-way delay: 57.956 ms  
Loss rate: 0.45%

Run 3: Report of Indigo — Data Link



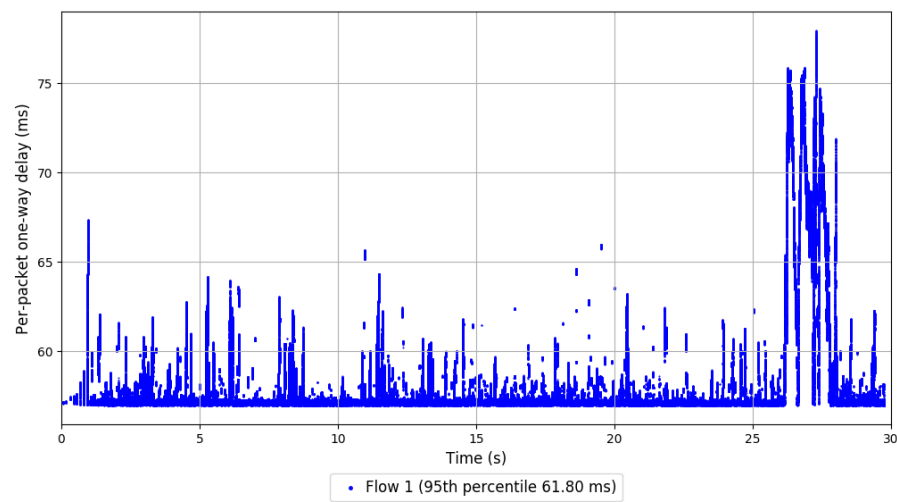
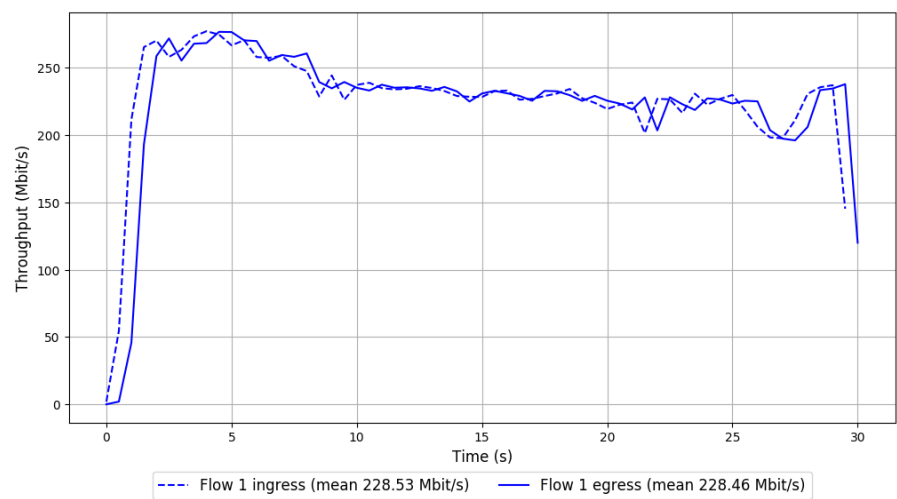


Run 4: Statistics of Indigo

Start at: 2019-09-19 00:50:14  
End at: 2019-09-19 00:50:44  
Local clock offset: -0.096 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-09-19 02:48:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 228.46 Mbit/s  
95th percentile per-packet one-way delay: 61.803 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 228.46 Mbit/s  
95th percentile per-packet one-way delay: 61.803 ms  
Loss rate: 0.41%

Run 4: Report of Indigo — Data Link

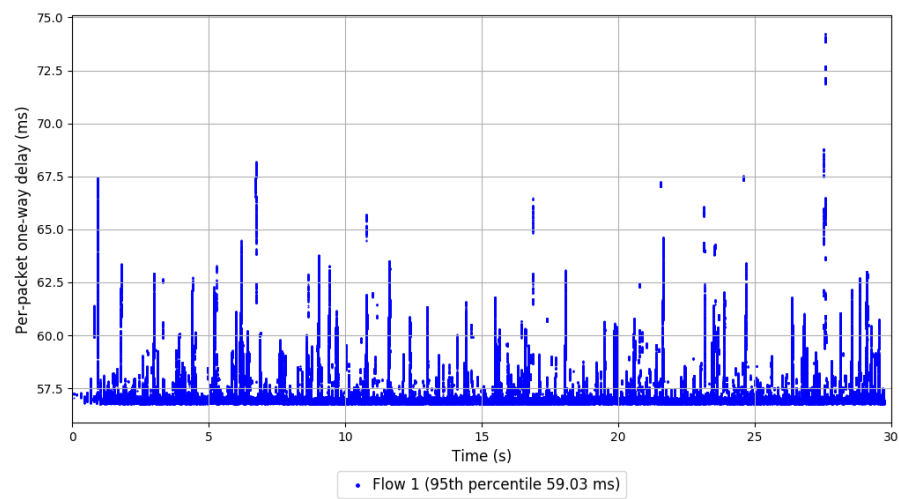
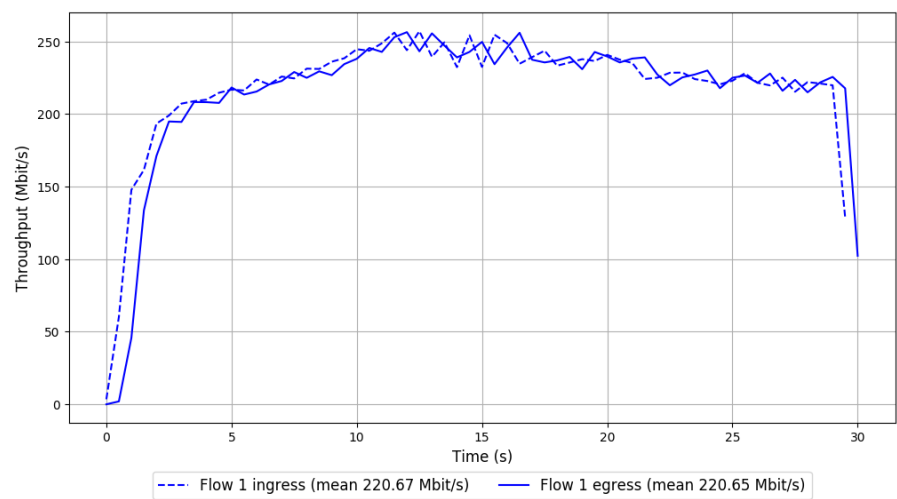


Run 5: Statistics of Indigo

Start at: 2019-09-19 01:25:32  
End at: 2019-09-19 01:26:02  
Local clock offset: -0.055 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-09-19 02:48:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 220.65 Mbit/s  
95th percentile per-packet one-way delay: 59.033 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 220.65 Mbit/s  
95th percentile per-packet one-way delay: 59.033 ms  
Loss rate: 0.39%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 22:54:53

End at: 2019-09-18 22:55:23

Local clock offset: -0.427 ms

Remote clock offset: 0.019 ms

# Below is generated by plot.py at 2019-09-19 02:49:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 592.07 Mbit/s

95th percentile per-packet one-way delay: 66.354 ms

Loss rate: 0.45%

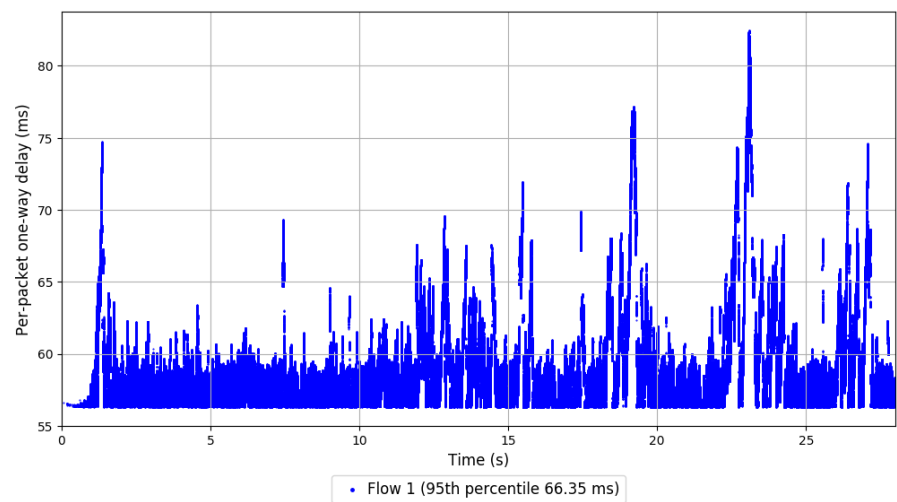
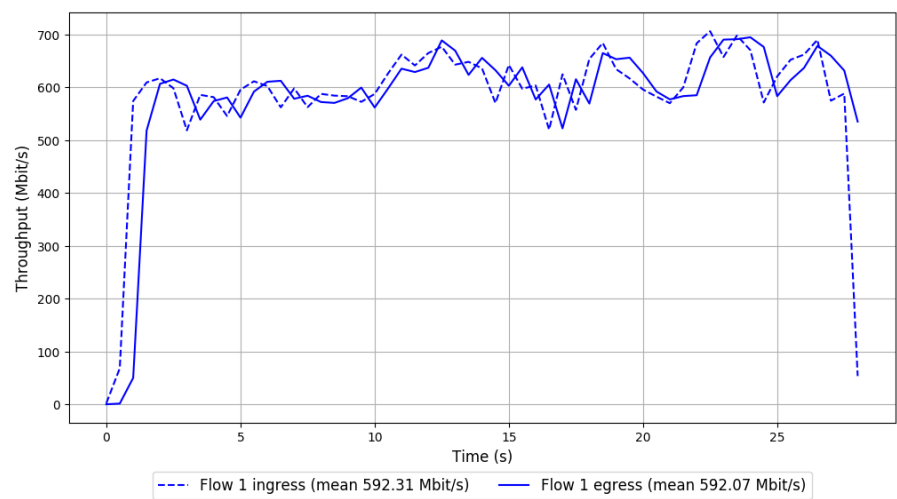
-- Flow 1:

Average throughput: 592.07 Mbit/s

95th percentile per-packet one-way delay: 66.354 ms

Loss rate: 0.45%

Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 23:30:01

End at: 2019-09-18 23:30:31

Local clock offset: -0.506 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-09-19 02:52:57

# Datalink statistics

-- Total of 1 flow:

Average throughput: 604.99 Mbit/s

95th percentile per-packet one-way delay: 75.532 ms

Loss rate: 0.44%

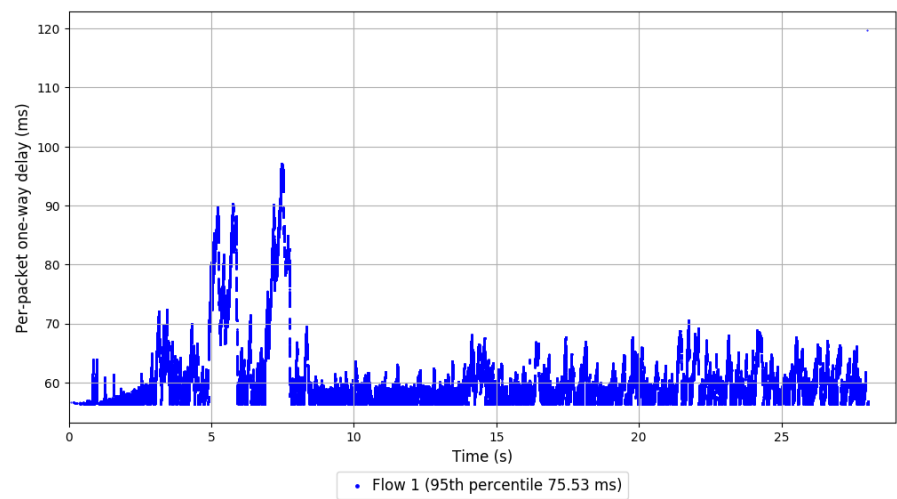
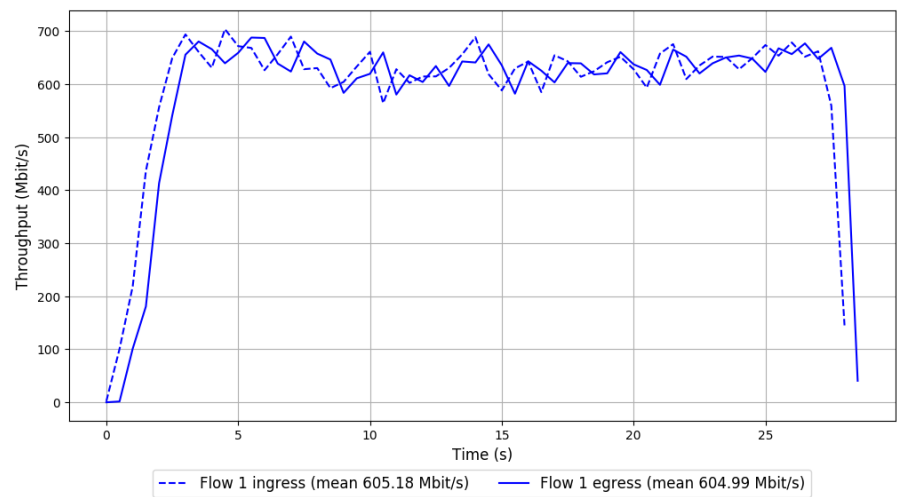
-- Flow 1:

Average throughput: 604.99 Mbit/s

95th percentile per-packet one-way delay: 75.532 ms

Loss rate: 0.44%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:05:02

End at: 2019-09-19 00:05:32

Local clock offset: -0.121 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-09-19 02:53:56

# Datalink statistics

-- Total of 1 flow:

Average throughput: 621.89 Mbit/s

95th percentile per-packet one-way delay: 70.556 ms

Loss rate: 0.46%

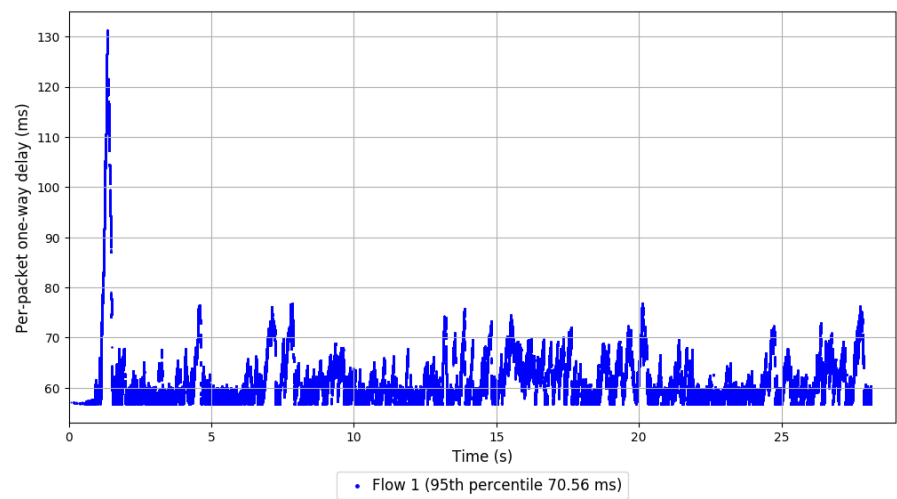
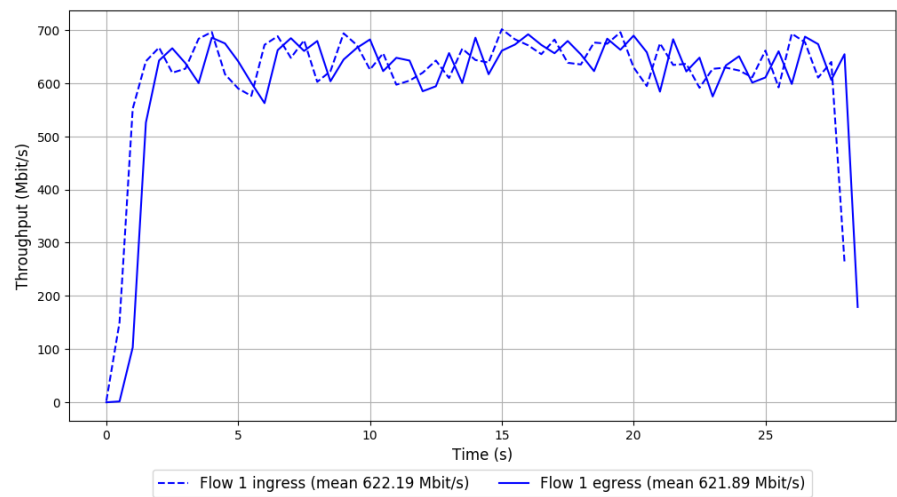
-- Flow 1:

Average throughput: 621.89 Mbit/s

95th percentile per-packet one-way delay: 70.556 ms

Loss rate: 0.46%

Run 3: Report of Indigo-MusesC3 — Data Link

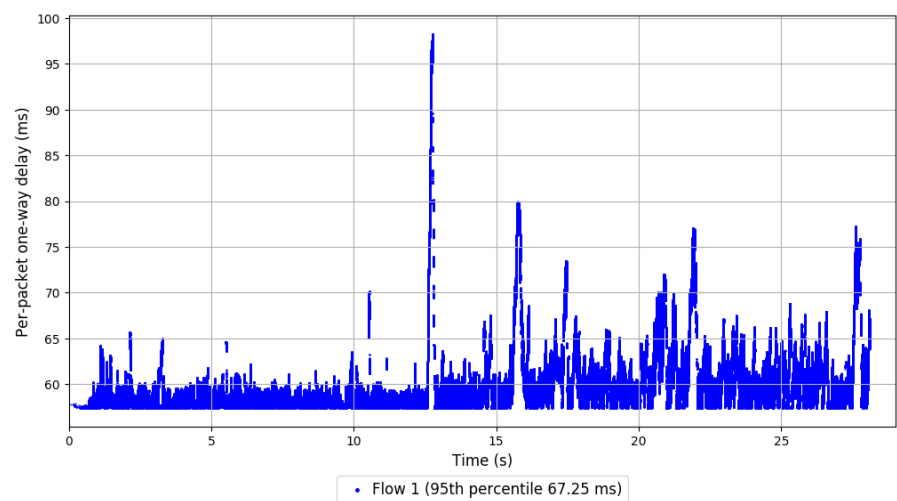
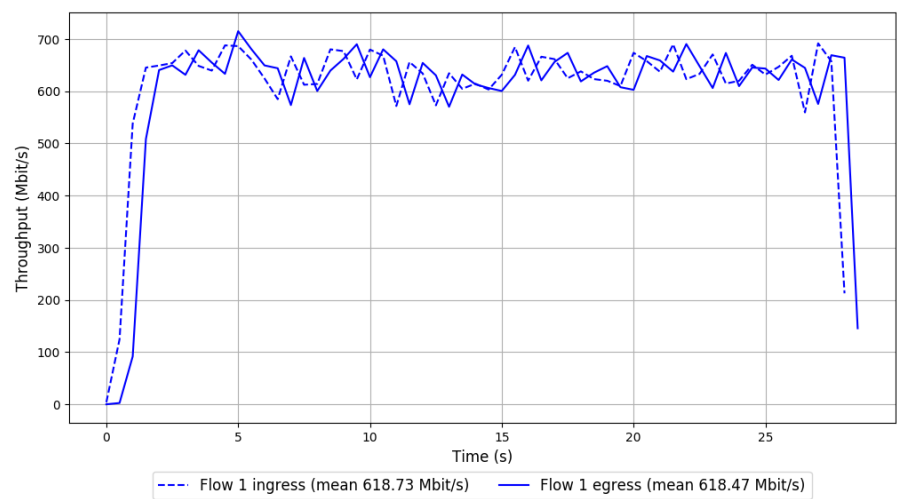


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-19 00:40:00  
End at: 2019-09-19 00:40:30  
Local clock offset: -0.105 ms  
Remote clock offset: -0.651 ms

# Below is generated by plot.py at 2019-09-19 02:55:24  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 618.47 Mbit/s  
95th percentile per-packet one-way delay: 67.247 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 618.47 Mbit/s  
95th percentile per-packet one-way delay: 67.247 ms  
Loss rate: 0.45%

Run 4: Report of Indigo-MusesC3 — Data Link

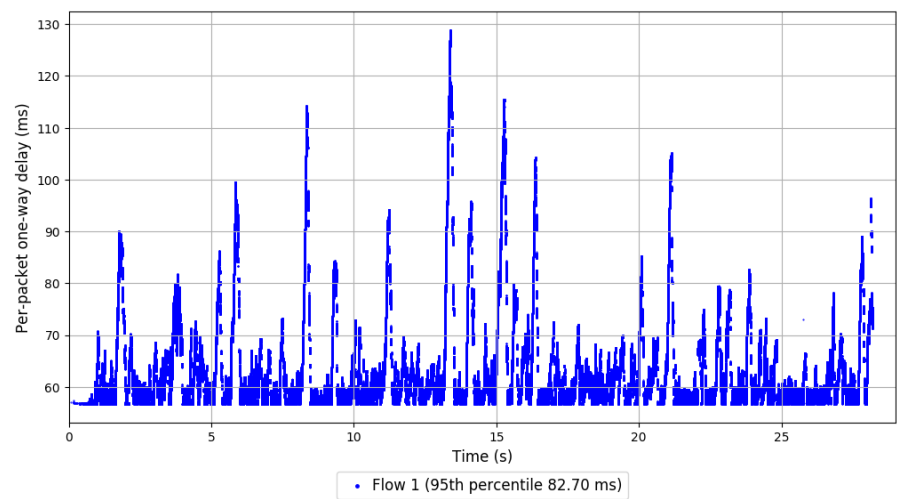
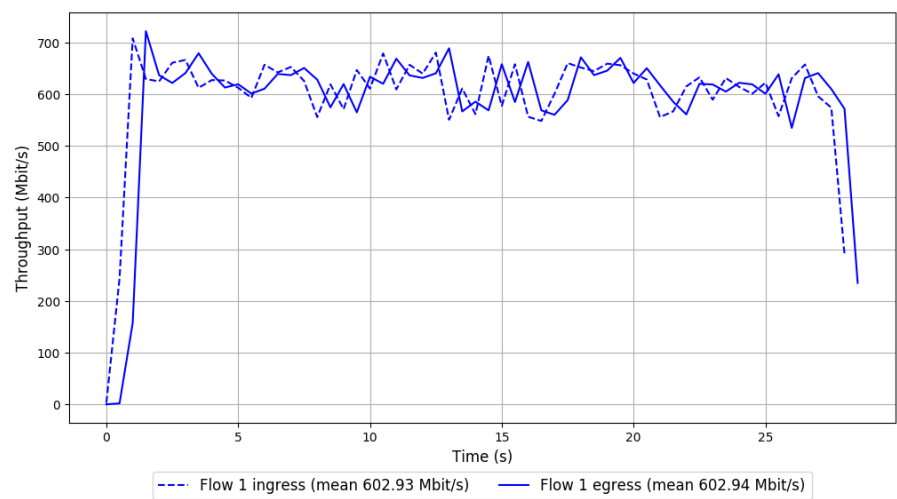


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-19 01:15:21  
End at: 2019-09-19 01:15:51  
Local clock offset: -0.126 ms  
Remote clock offset: -0.078 ms

# Below is generated by plot.py at 2019-09-19 02:55:49  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 602.94 Mbit/s  
95th percentile per-packet one-way delay: 82.698 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 602.94 Mbit/s  
95th percentile per-packet one-way delay: 82.698 ms  
Loss rate: 0.40%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:06:24

End at: 2019-09-18 23:06:54

Local clock offset: -0.263 ms

Remote clock offset: 0.097 ms

# Below is generated by plot.py at 2019-09-19 02:56:51

# Datalink statistics

-- Total of 1 flow:

Average throughput: 627.86 Mbit/s

95th percentile per-packet one-way delay: 88.608 ms

Loss rate: 0.47%

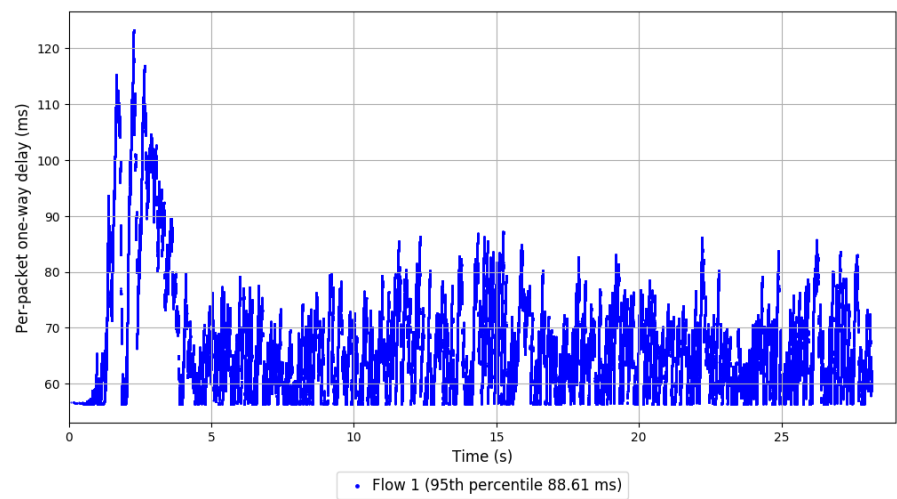
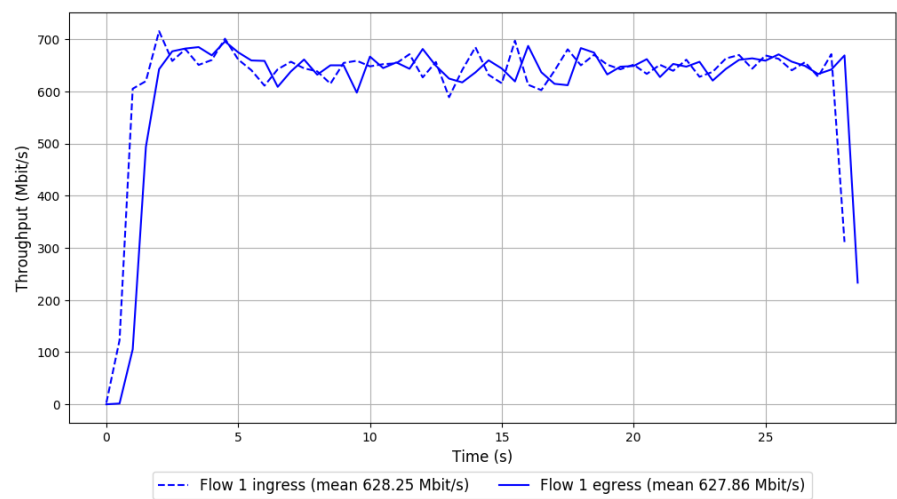
-- Flow 1:

Average throughput: 627.86 Mbit/s

95th percentile per-packet one-way delay: 88.608 ms

Loss rate: 0.47%

Run 1: Report of Indigo-MusesC5 — Data Link





Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 23:41:16

End at: 2019-09-18 23:41:46

Local clock offset: -0.333 ms

Remote clock offset: 0.057 ms

# Below is generated by plot.py at 2019-09-19 02:58:01

# Datalink statistics

-- Total of 1 flow:

Average throughput: 627.10 Mbit/s

95th percentile per-packet one-way delay: 81.971 ms

Loss rate: 0.48%

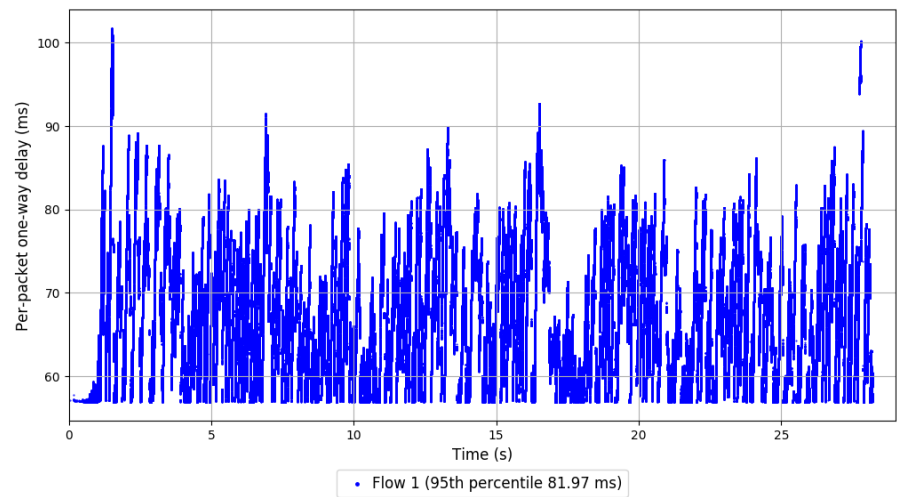
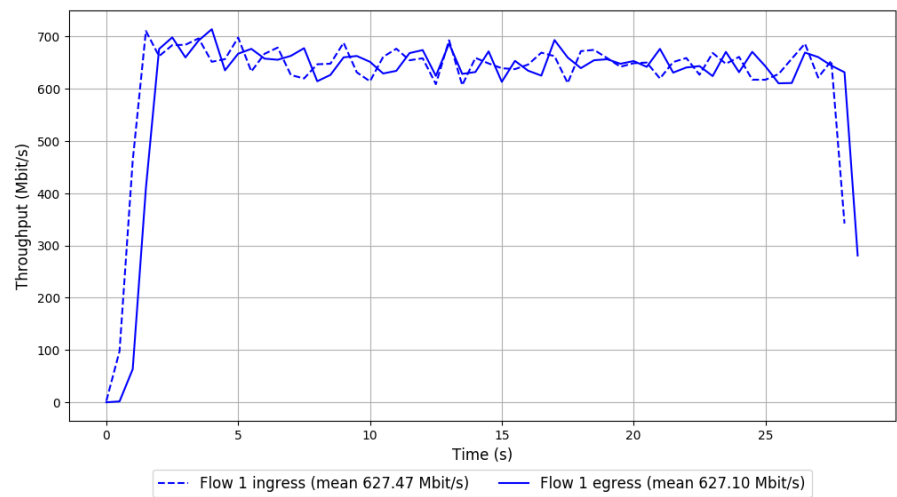
-- Flow 1:

Average throughput: 627.10 Mbit/s

95th percentile per-packet one-way delay: 81.971 ms

Loss rate: 0.48%

Run 2: Report of Indigo-MusesC5 — Data Link

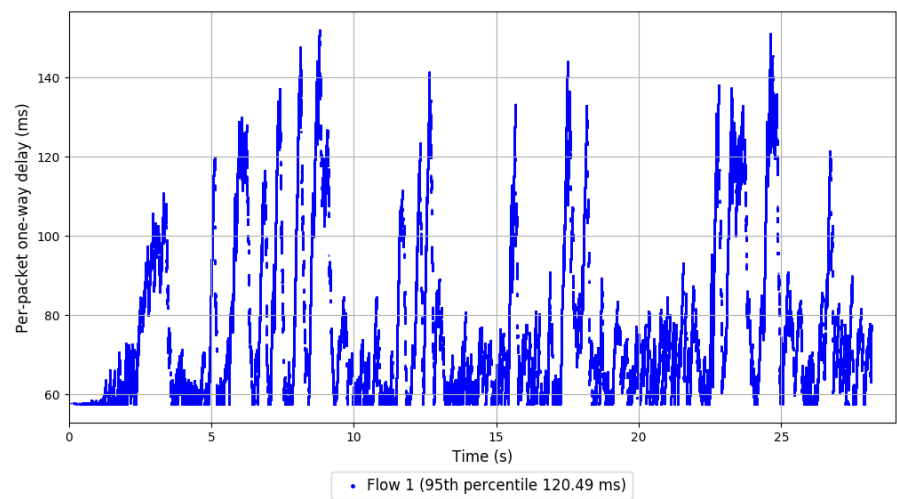
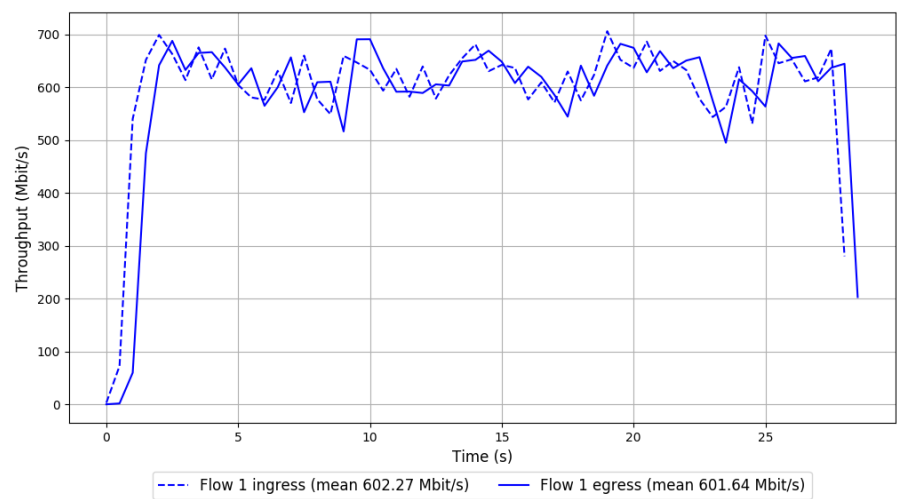


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:16:25  
End at: 2019-09-19 00:16:55  
Local clock offset: 0.273 ms  
Remote clock offset: -0.138 ms

# Below is generated by plot.py at 2019-09-19 02:58:37  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 601.64 Mbit/s  
95th percentile per-packet one-way delay: 120.488 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 601.64 Mbit/s  
95th percentile per-packet one-way delay: 120.488 ms  
Loss rate: 0.51%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-19 00:51:42

End at: 2019-09-19 00:52:12

Local clock offset: -0.074 ms

Remote clock offset: -0.82 ms

# Below is generated by plot.py at 2019-09-19 03:00:26

# Datalink statistics

-- Total of 1 flow:

Average throughput: 637.20 Mbit/s

95th percentile per-packet one-way delay: 75.285 ms

Loss rate: 0.46%

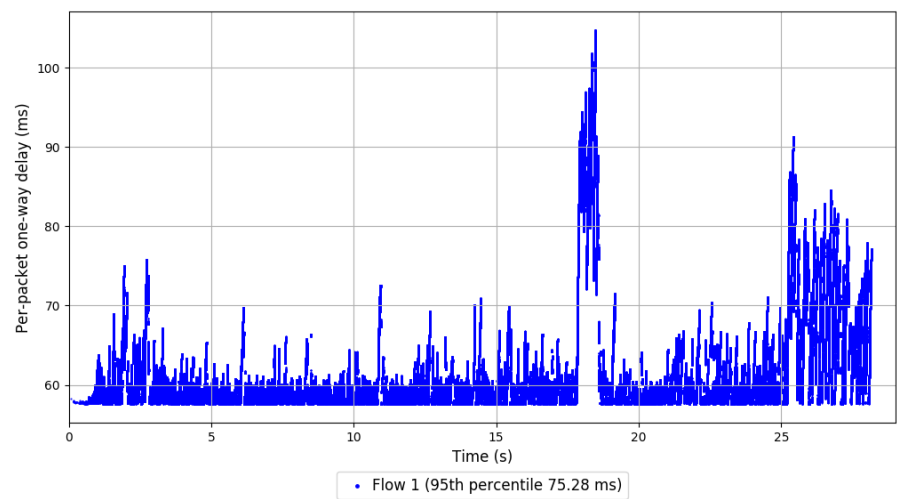
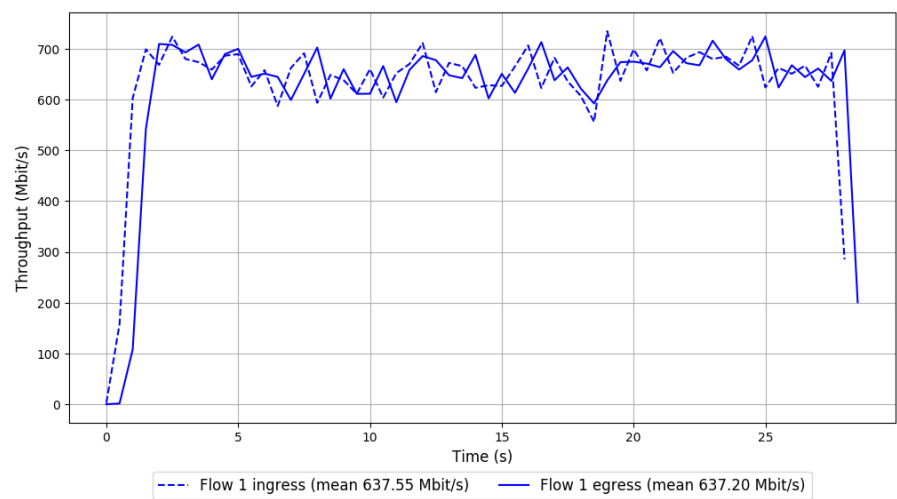
-- Flow 1:

Average throughput: 637.20 Mbit/s

95th percentile per-packet one-way delay: 75.285 ms

Loss rate: 0.46%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-19 01:27:00

End at: 2019-09-19 01:27:30

Local clock offset: -0.115 ms

Remote clock offset: 0.067 ms

# Below is generated by plot.py at 2019-09-19 03:03:39

# Datalink statistics

-- Total of 1 flow:

Average throughput: 609.74 Mbit/s

95th percentile per-packet one-way delay: 103.847 ms

Loss rate: 0.49%

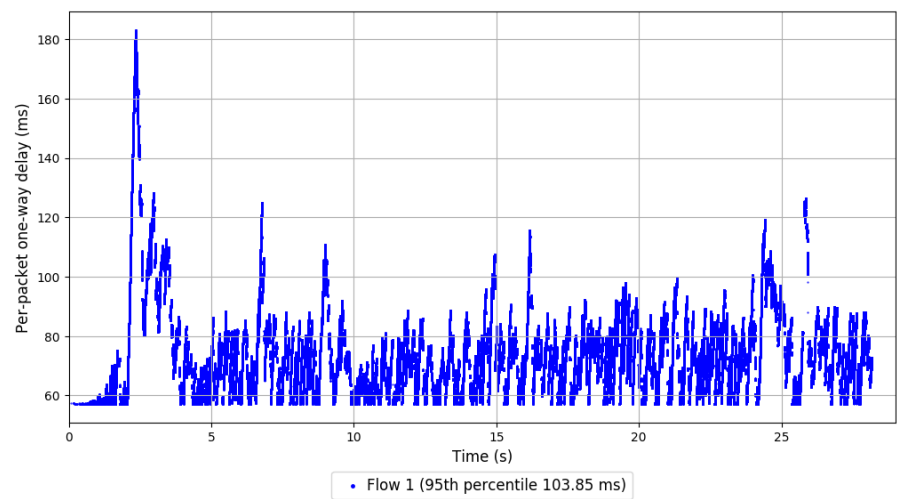
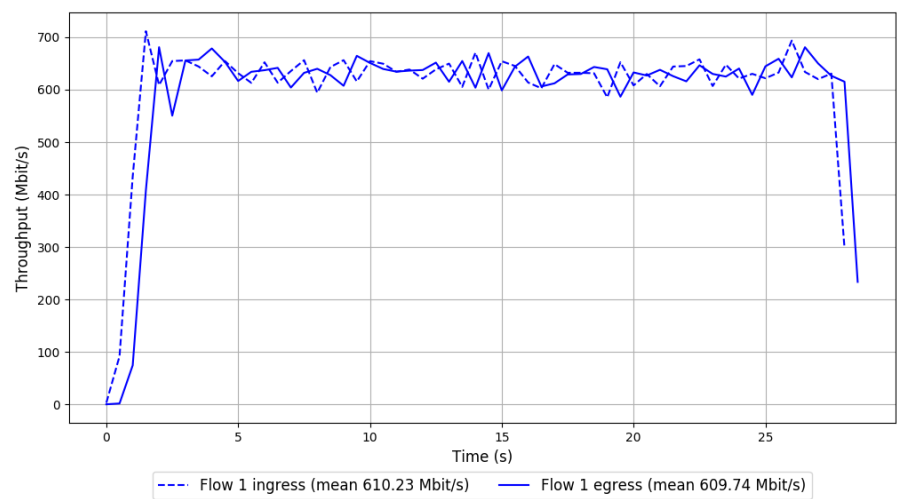
-- Flow 1:

Average throughput: 609.74 Mbit/s

95th percentile per-packet one-way delay: 103.847 ms

Loss rate: 0.49%

Run 5: Report of Indigo-MusesC5 — Data Link



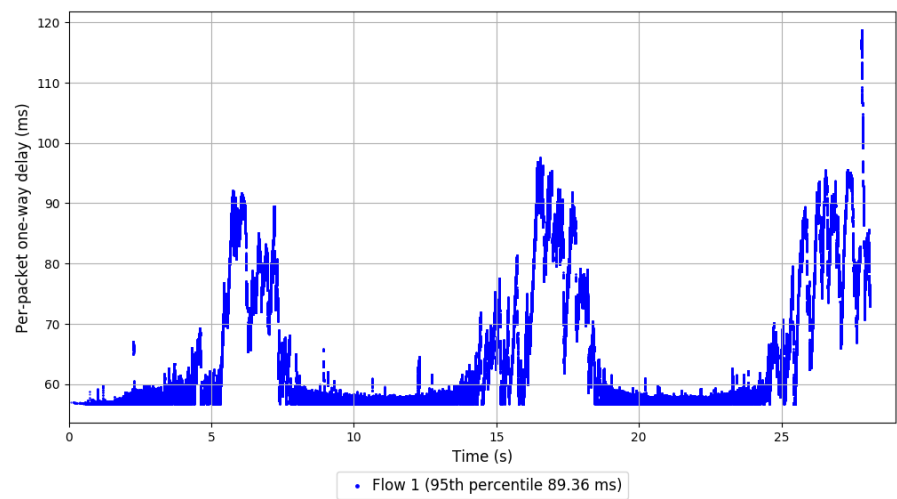
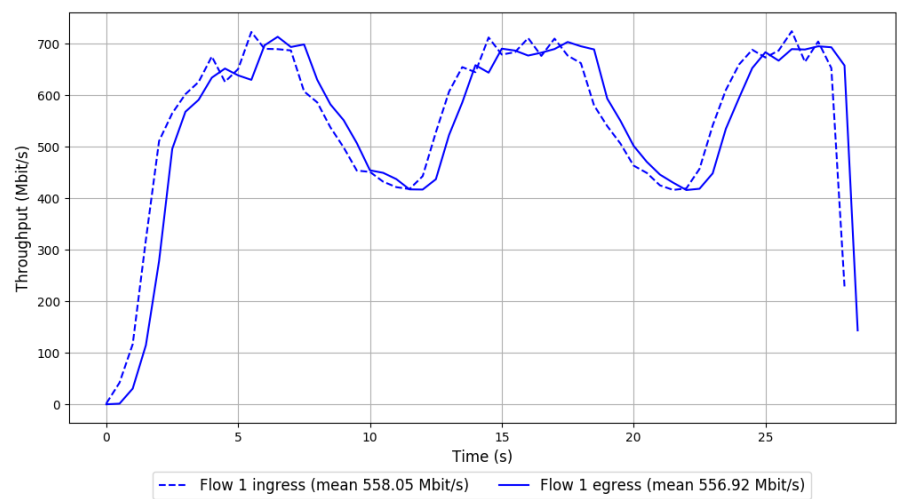


```
Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:24:06
End at: 2019-09-18 23:24:36
Local clock offset: -0.248 ms
Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-09-19 03:03:39
# Datalink statistics
-- Total of 1 flow:
Average throughput: 556.92 Mbit/s
95th percentile per-packet one-way delay: 89.360 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 556.92 Mbit/s
95th percentile per-packet one-way delay: 89.360 ms
Loss rate: 0.61%
```

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 23:59:05

End at: 2019-09-18 23:59:35

Local clock offset: -0.089 ms

Remote clock offset: 0.211 ms

# Below is generated by plot.py at 2019-09-19 03:05:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 590.61 Mbit/s

95th percentile per-packet one-way delay: 86.599 ms

Loss rate: 0.44%

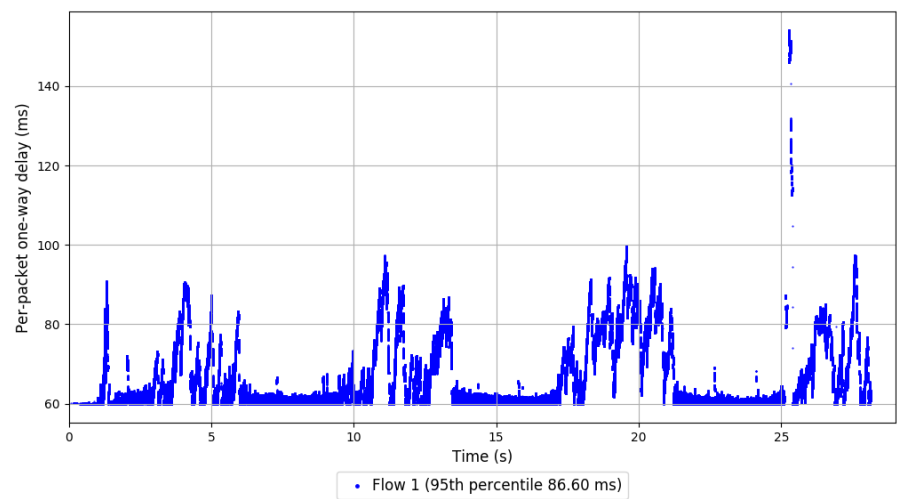
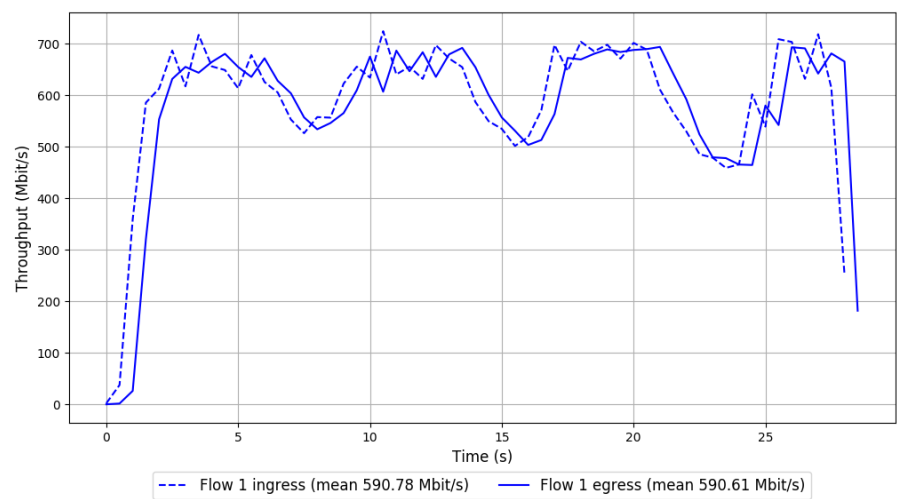
-- Flow 1:

Average throughput: 590.61 Mbit/s

95th percentile per-packet one-way delay: 86.599 ms

Loss rate: 0.44%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-19 00:34:09

End at: 2019-09-19 00:34:39

Local clock offset: -0.48 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2019-09-19 03:05:20

# Datalink statistics

-- Total of 1 flow:

Average throughput: 568.60 Mbit/s

95th percentile per-packet one-way delay: 107.393 ms

Loss rate: 0.51%

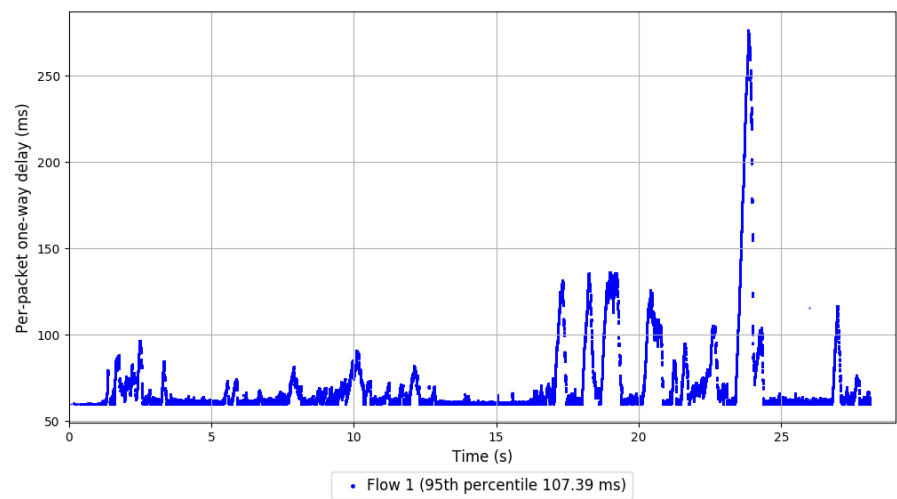
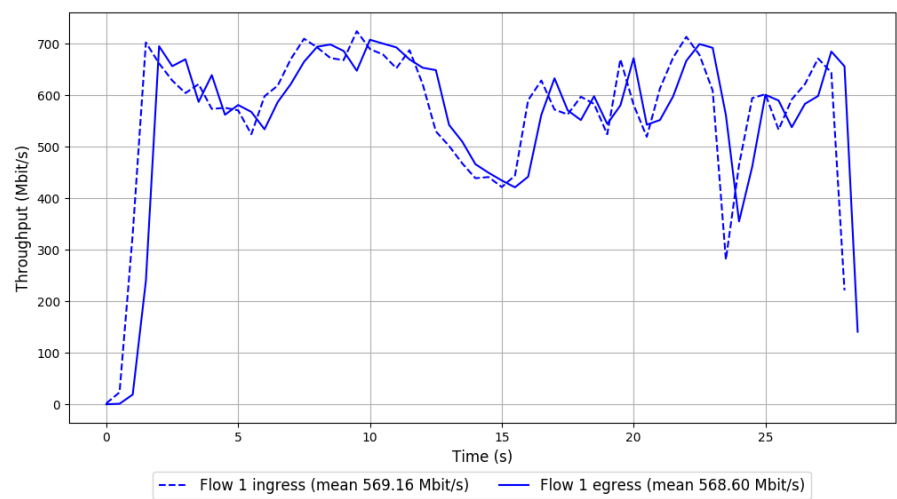
-- Flow 1:

Average throughput: 568.60 Mbit/s

95th percentile per-packet one-way delay: 107.393 ms

Loss rate: 0.51%

Run 3: Report of Indigo-MusesD — Data Link



Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-19 01:09:30

End at: 2019-09-19 01:10:00

Local clock offset: 0.196 ms

Remote clock offset: 0.38 ms

# Below is generated by plot.py at 2019-09-19 03:05:37

# Datalink statistics

-- Total of 1 flow:

Average throughput: 533.15 Mbit/s

95th percentile per-packet one-way delay: 86.798 ms

Loss rate: 0.28%

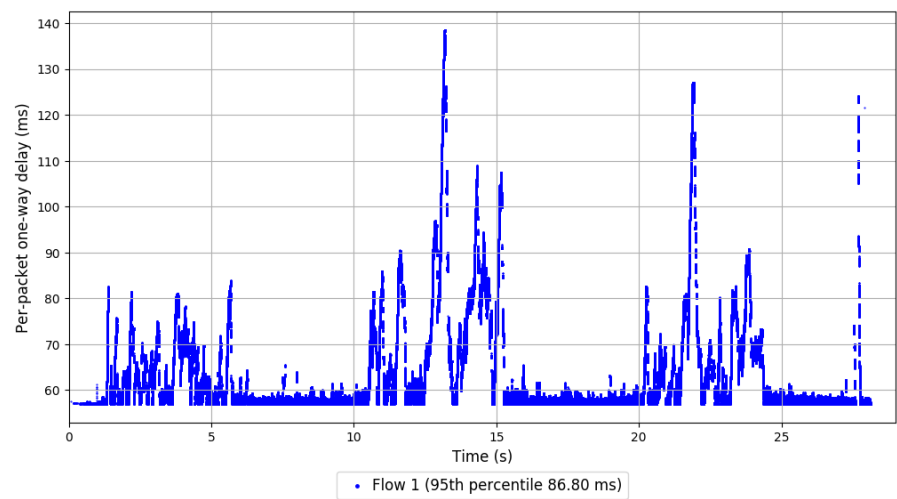
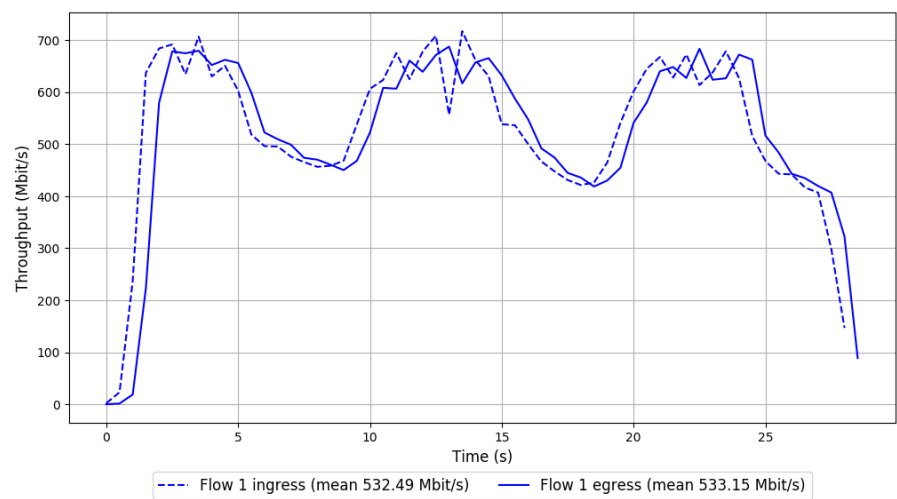
-- Flow 1:

Average throughput: 533.15 Mbit/s

95th percentile per-packet one-way delay: 86.798 ms

Loss rate: 0.28%

Run 4: Report of Indigo-MusesD — Data Link



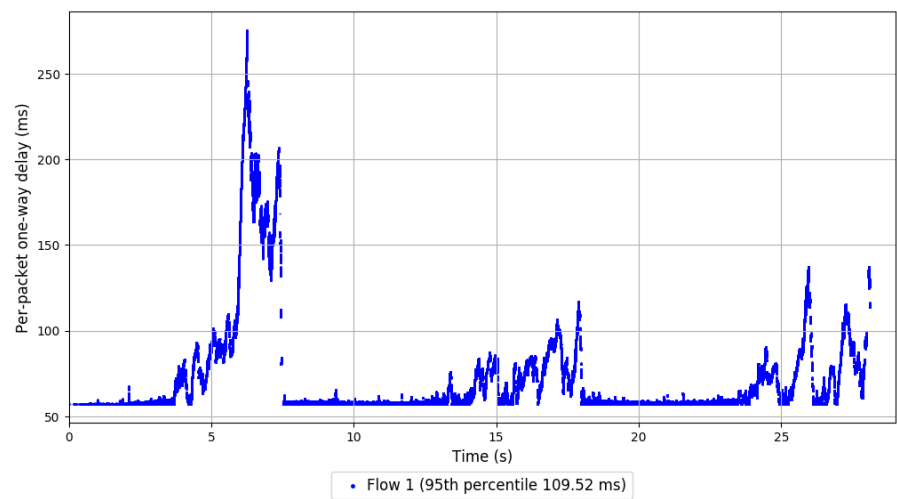
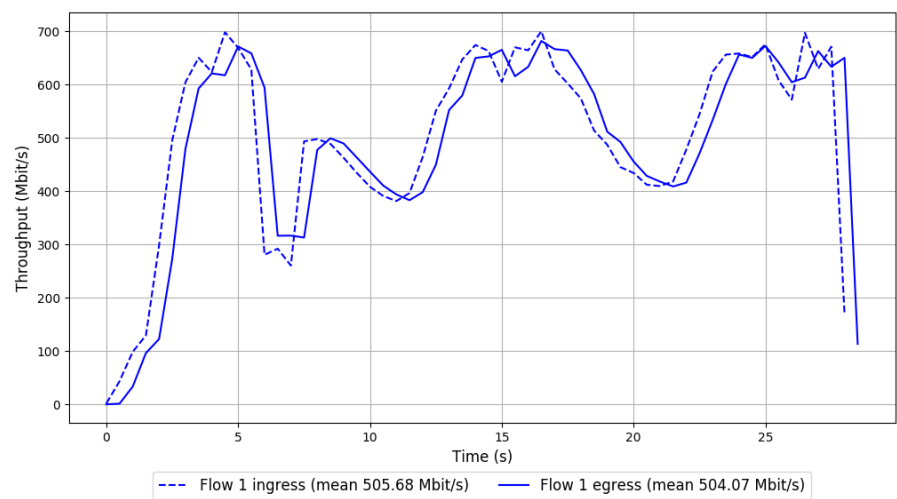


Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-19 01:44:43  
End at: 2019-09-19 01:45:13  
Local clock offset: -0.103 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-09-19 03:06:30  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 504.07 Mbit/s  
95th percentile per-packet one-way delay: 109.521 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 504.07 Mbit/s  
95th percentile per-packet one-way delay: 109.521 ms  
Loss rate: 0.72%

Run 5: Report of Indigo-MusesD — Data Link

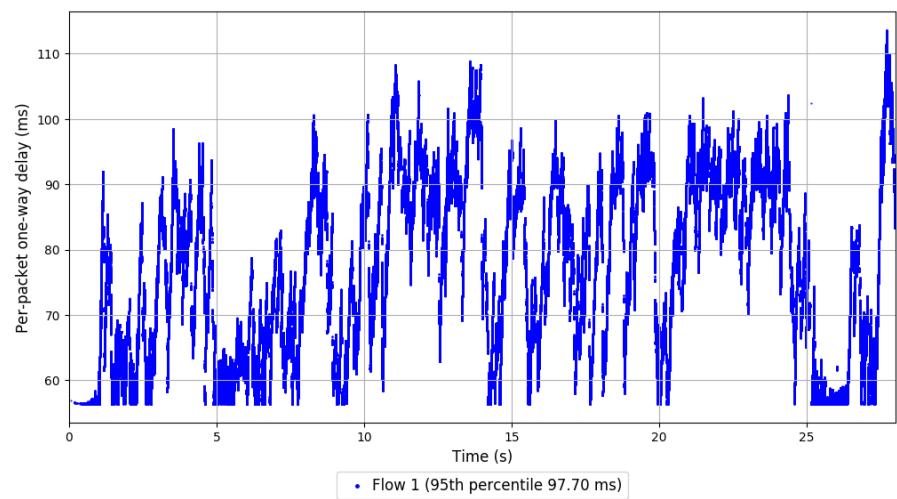
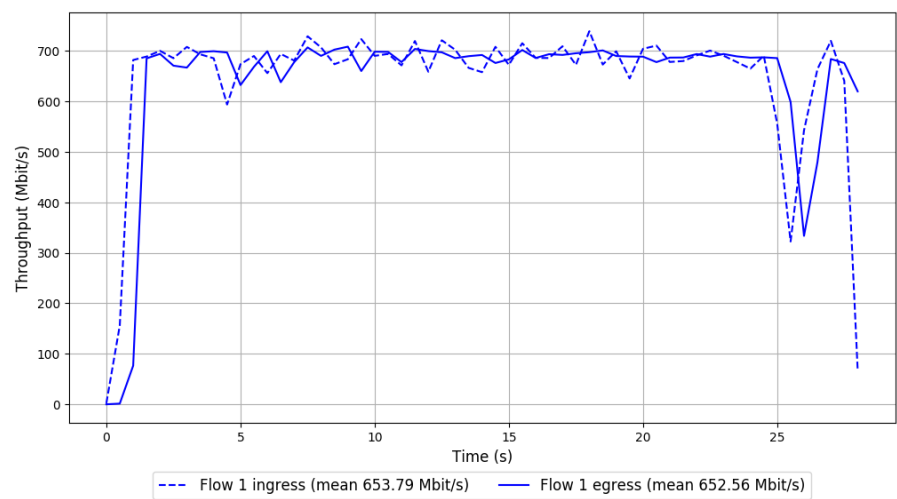


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 22:59:14
End at: 2019-09-18 22:59:44
Local clock offset: -0.257 ms
Remote clock offset: 0.116 ms

# Below is generated by plot.py at 2019-09-19 03:09:33
# Datalink statistics
-- Total of 1 flow:
Average throughput: 652.56 Mbit/s
95th percentile per-packet one-way delay: 97.702 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 652.56 Mbit/s
95th percentile per-packet one-way delay: 97.702 ms
Loss rate: 0.59%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 23:33:59

End at: 2019-09-18 23:34:29

Local clock offset: -0.486 ms

Remote clock offset: 0.086 ms

# Below is generated by plot.py at 2019-09-19 03:11:13

# Datalink statistics

-- Total of 1 flow:

Average throughput: 629.43 Mbit/s

95th percentile per-packet one-way delay: 140.000 ms

Loss rate: 0.54%

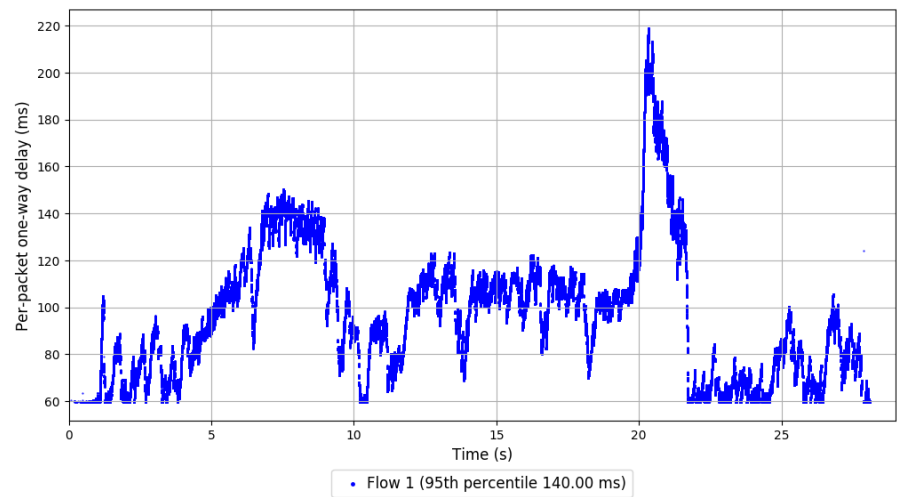
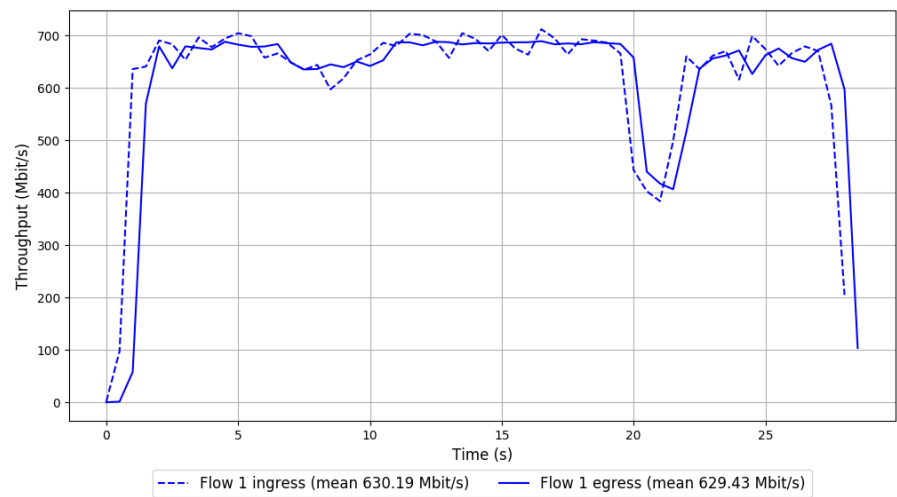
-- Flow 1:

Average throughput: 629.43 Mbit/s

95th percentile per-packet one-way delay: 140.000 ms

Loss rate: 0.54%

Run 2: Report of Indigo-MusesT — Data Link

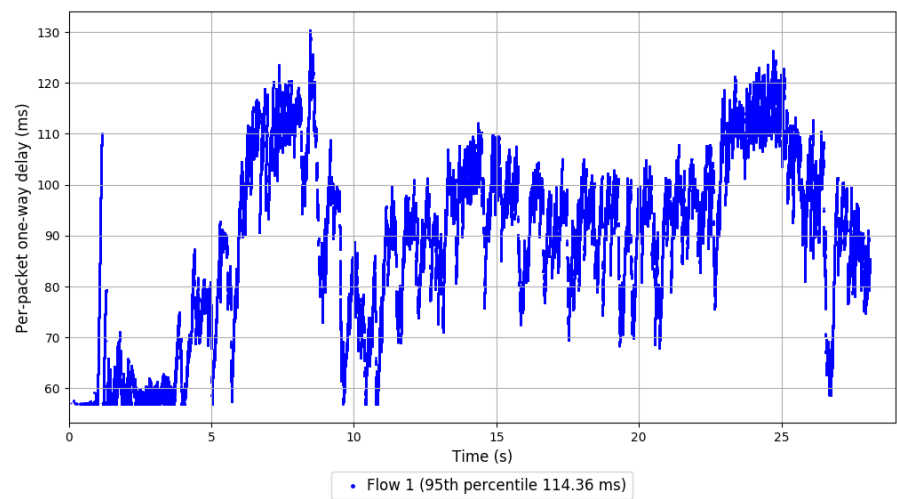
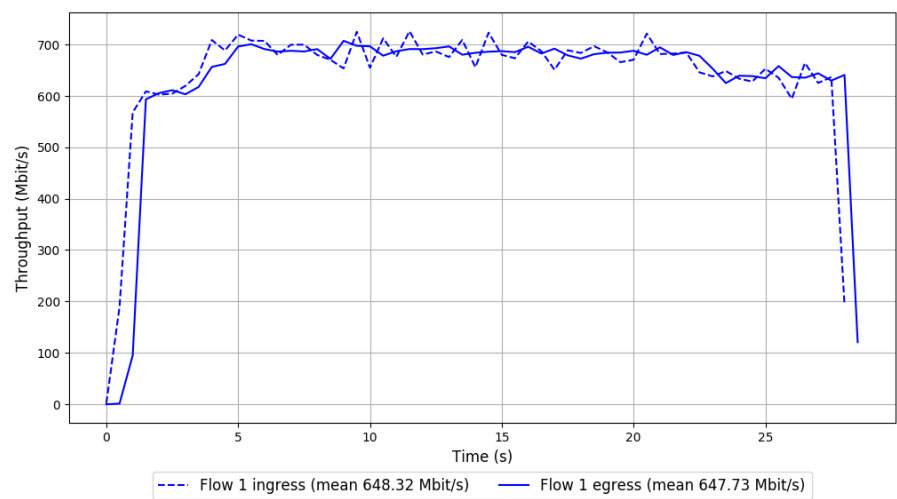


Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-19 00:09:21  
End at: 2019-09-19 00:09:51  
Local clock offset: -0.067 ms  
Remote clock offset: -0.095 ms

# Below is generated by plot.py at 2019-09-19 03:13:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 647.73 Mbit/s  
95th percentile per-packet one-way delay: 114.363 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 647.73 Mbit/s  
95th percentile per-packet one-way delay: 114.363 ms  
Loss rate: 0.49%

Run 3: Report of Indigo-MusesT — Data Link



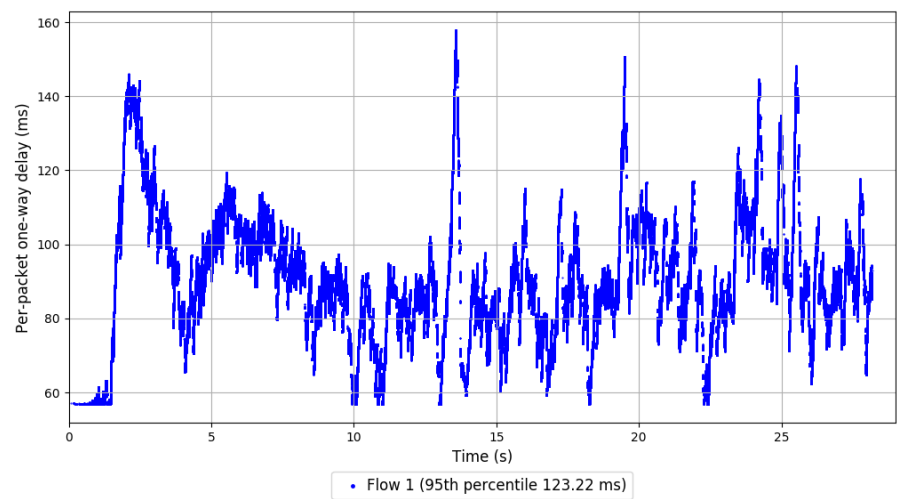
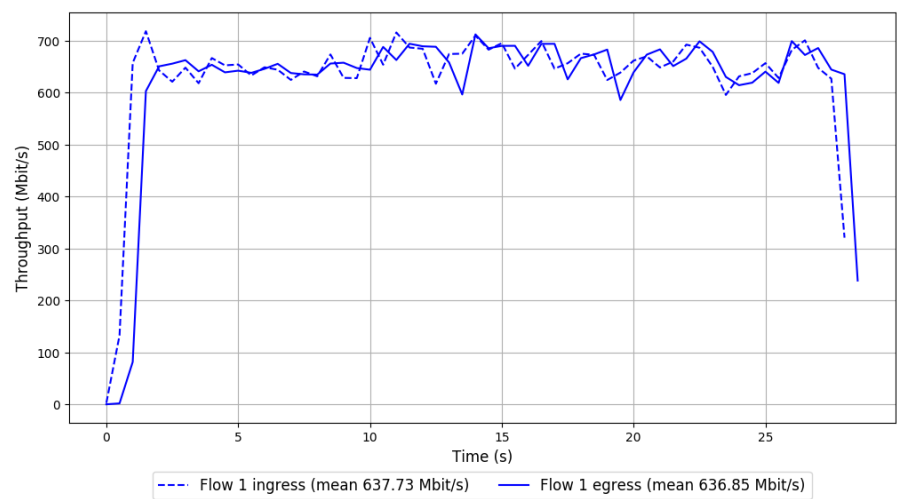


Run 4: Statistics of Indigo-MusesT

Start at: 2019-09-19 00:44:23  
End at: 2019-09-19 00:44:53  
Local clock offset: -0.105 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-09-19 03:13:52  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 636.85 Mbit/s  
95th percentile per-packet one-way delay: 123.218 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 636.85 Mbit/s  
95th percentile per-packet one-way delay: 123.218 ms  
Loss rate: 0.54%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-19 01:19:43

End at: 2019-09-19 01:20:13

Local clock offset: 0.158 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-09-19 03:16:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 628.63 Mbit/s

95th percentile per-packet one-way delay: 118.529 ms

Loss rate: 0.46%

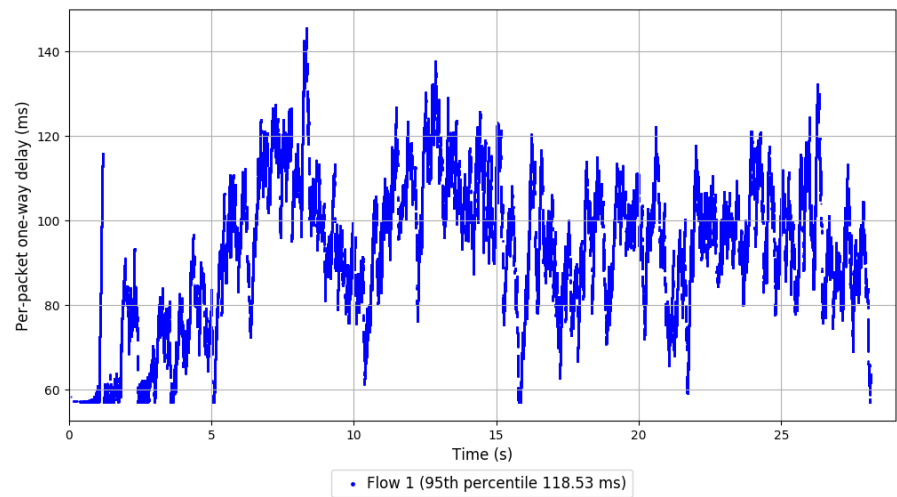
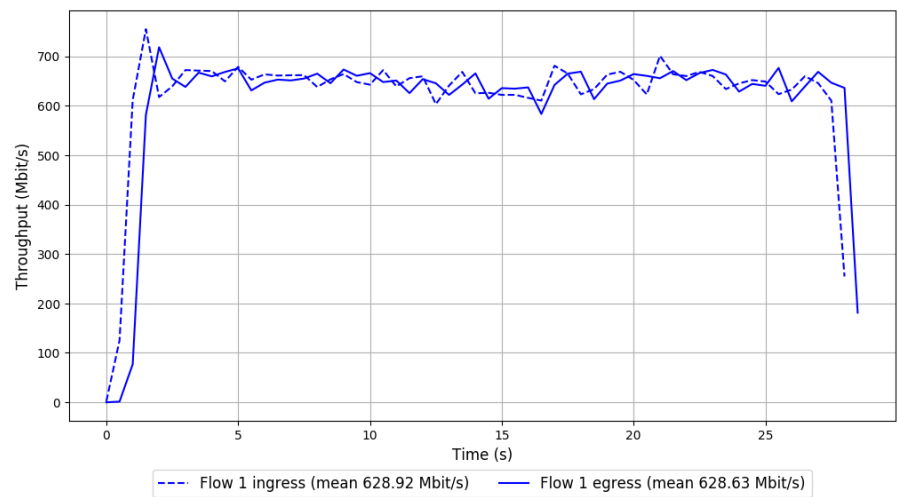
-- Flow 1:

Average throughput: 628.63 Mbit/s

95th percentile per-packet one-way delay: 118.529 ms

Loss rate: 0.46%

Run 5: Report of Indigo-MusesT — Data Link

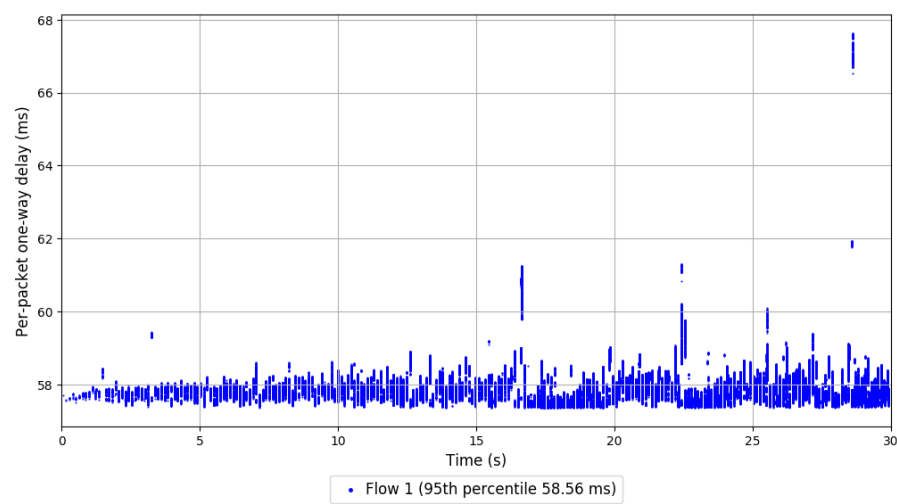
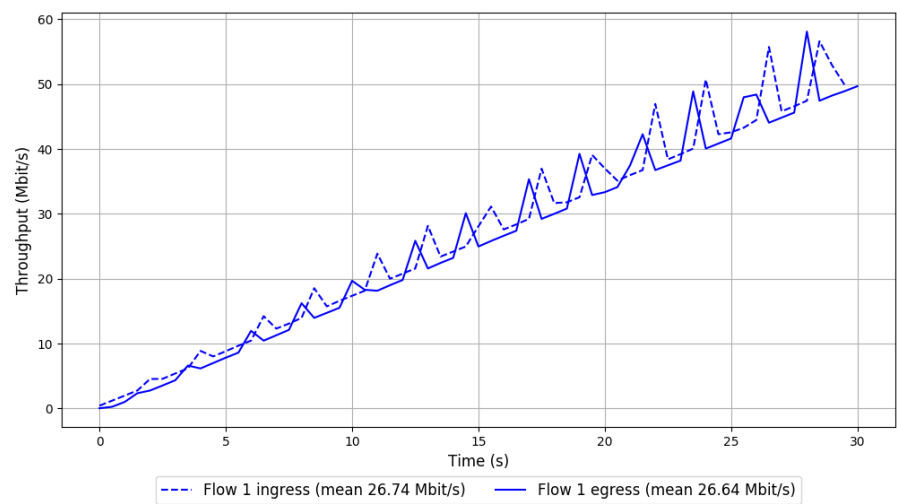


```
Run 1: Statistics of LEDBAT

Start at: 2019-09-18 22:58:04
End at: 2019-09-18 22:58:34
Local clock offset: 0.152 ms
Remote clock offset: 0.049 ms

# Below is generated by plot.py at 2019-09-19 03:16:10
# Datalink statistics
-- Total of 1 flow:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 58.560 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 26.64 Mbit/s
95th percentile per-packet one-way delay: 58.560 ms
Loss rate: 0.78%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 23:32:48

End at: 2019-09-18 23:33:18

Local clock offset: -0.284 ms

Remote clock offset: 0.081 ms

# Below is generated by plot.py at 2019-09-19 03:16:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 58.267 ms

Loss rate: 0.76%

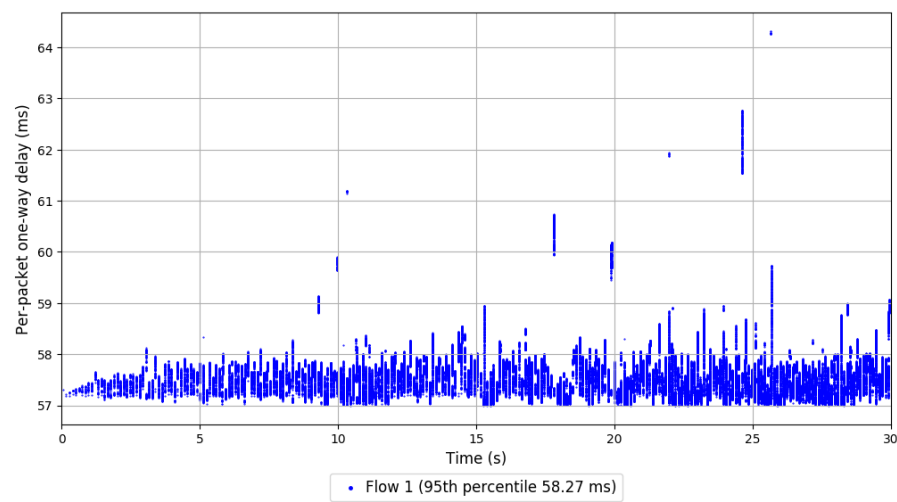
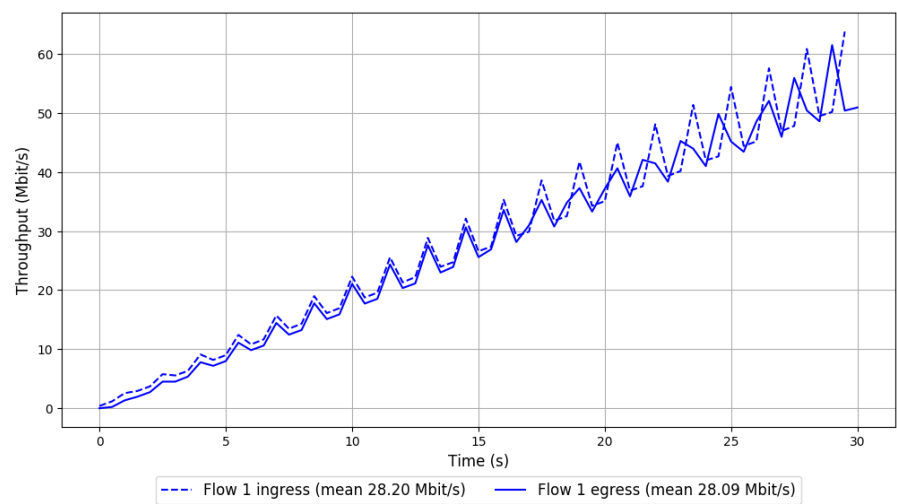
-- Flow 1:

Average throughput: 28.09 Mbit/s

95th percentile per-packet one-way delay: 58.267 ms

Loss rate: 0.76%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-09-19 00:08:10

End at: 2019-09-19 00:08:40

Local clock offset: 0.329 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-09-19 03:16:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.11 Mbit/s

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

Loss rate: 0.76%

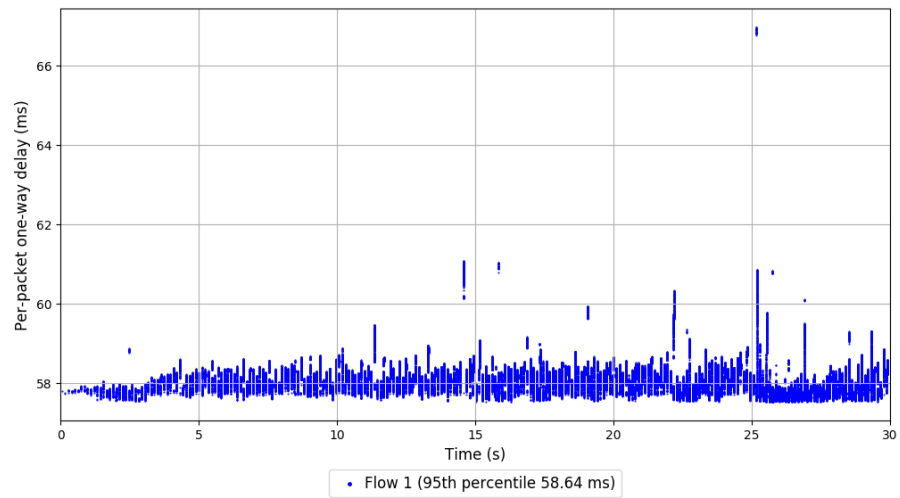
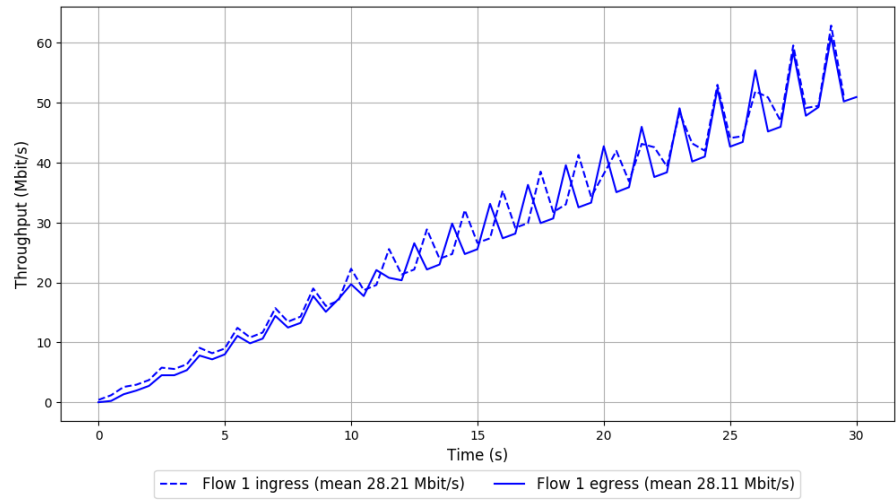
-- Flow 1:

Average throughput: 28.11 Mbit/s

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

Loss rate: 0.76%

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

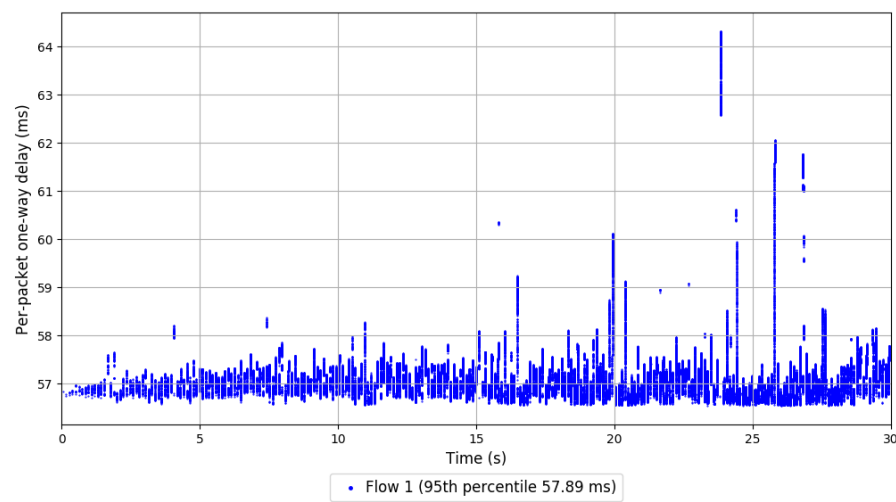
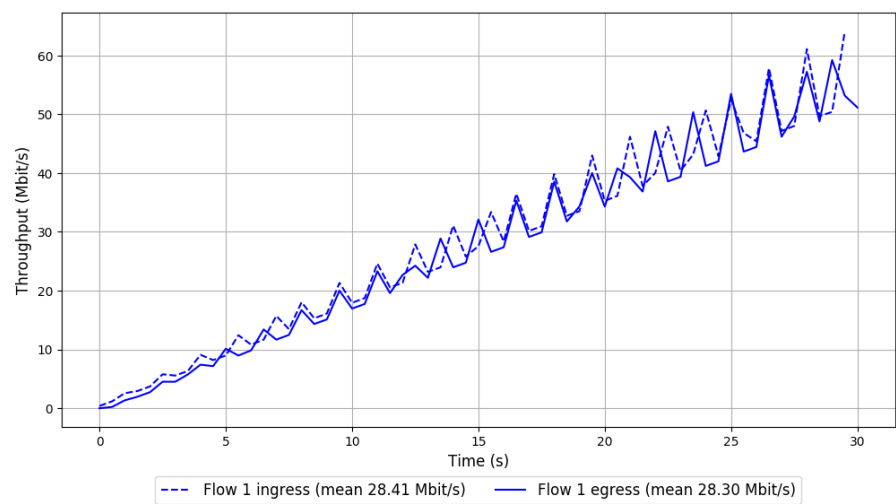


Run 4: Statistics of LEDBAT

Start at: 2019-09-19 00:43:12  
End at: 2019-09-19 00:43:42  
Local clock offset: -0.342 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-09-19 03:16:10  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 28.30 Mbit/s  
95th percentile per-packet one-way delay: 57.888 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 28.30 Mbit/s  
95th percentile per-packet one-way delay: 57.888 ms  
Loss rate: 0.76%

Run 4: Report of LEDBAT — Data Link



Run 5: Statistics of LEDBAT

Start at: 2019-09-19 01:18:32

End at: 2019-09-19 01:19:02

Local clock offset: -0.477 ms

Remote clock offset: 0.624 ms

# Below is generated by plot.py at 2019-09-19 03:16:10

# Datalink statistics

-- Total of 1 flow:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 57.754 ms

Loss rate: 0.75%

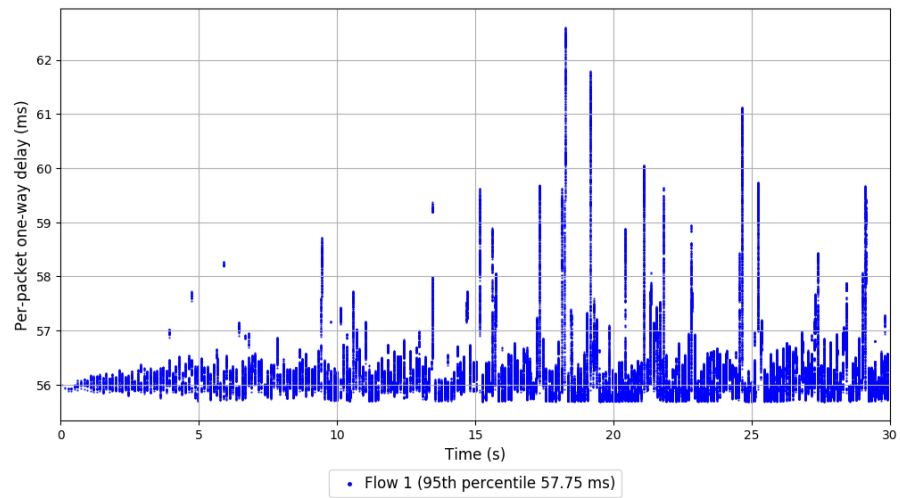
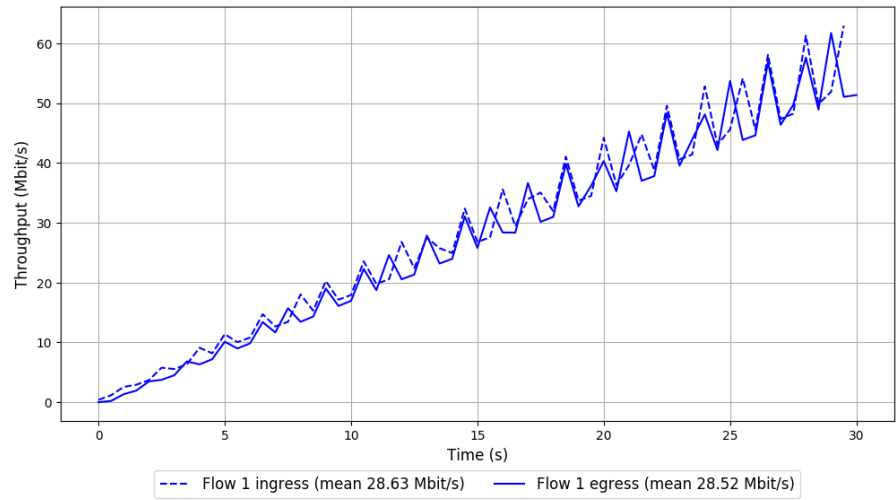
-- Flow 1:

Average throughput: 28.52 Mbit/s

95th percentile per-packet one-way delay: 57.754 ms

Loss rate: 0.75%

## Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 23:25:40

End at: 2019-09-18 23:26:10

Local clock offset: 0.319 ms

Remote clock offset: -0.69 ms

# Below is generated by plot.py at 2019-09-19 03:18:54

# Datalink statistics

-- Total of 1 flow:

Average throughput: 627.93 Mbit/s

95th percentile per-packet one-way delay: 66.808 ms

Loss rate: 0.41%

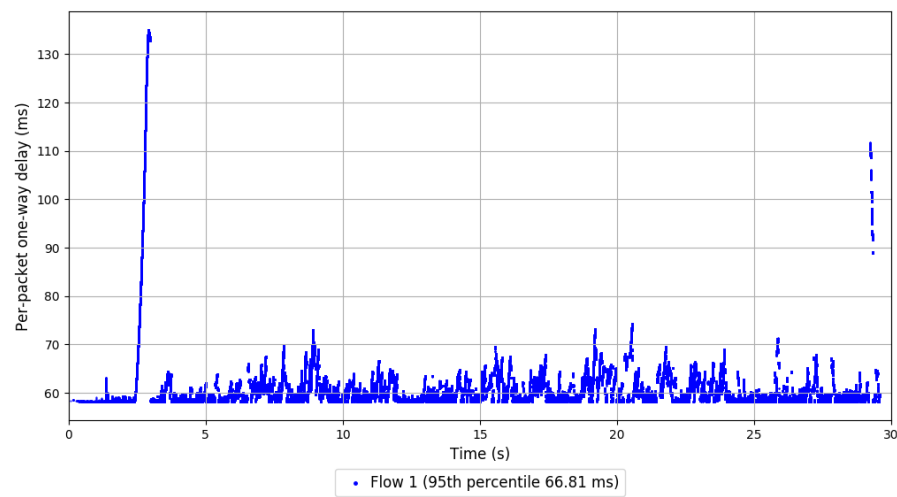
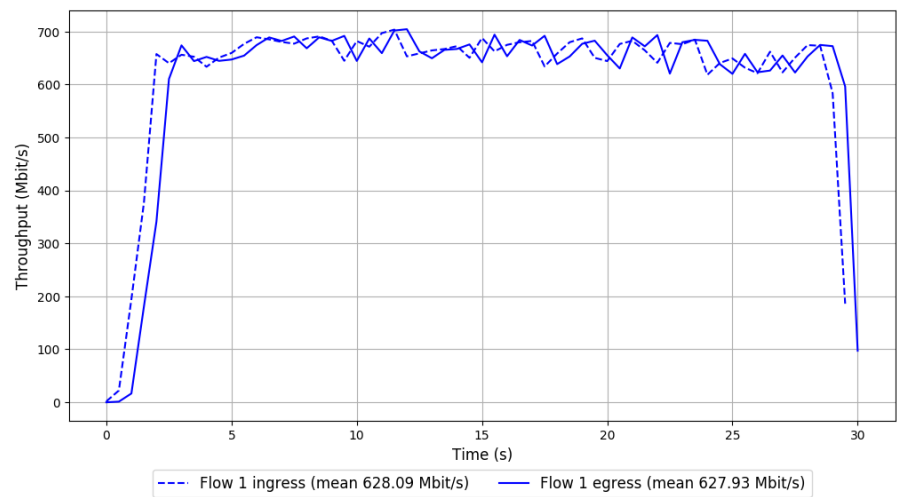
-- Flow 1:

Average throughput: 627.93 Mbit/s

95th percentile per-packet one-way delay: 66.808 ms

Loss rate: 0.41%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 00:00:40

End at: 2019-09-19 00:01:10

Local clock offset: -0.026 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-09-19 03:19:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 624.51 Mbit/s

95th percentile per-packet one-way delay: 68.035 ms

Loss rate: 0.44%

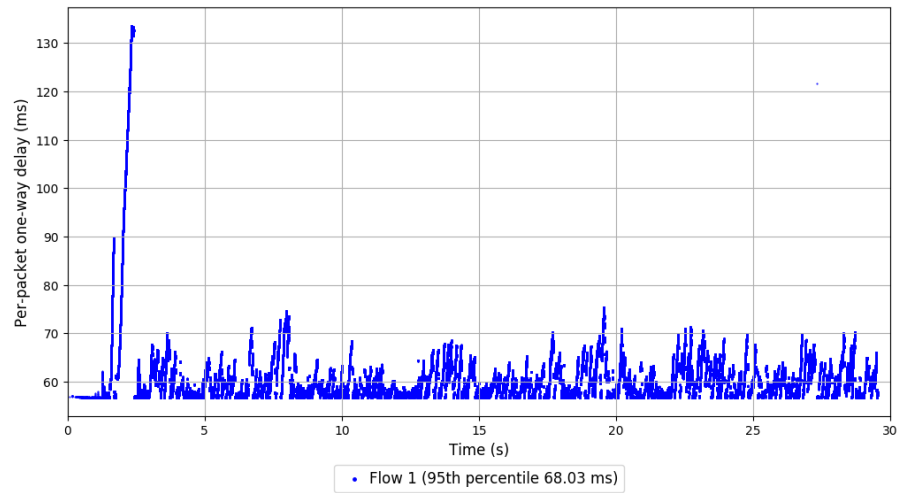
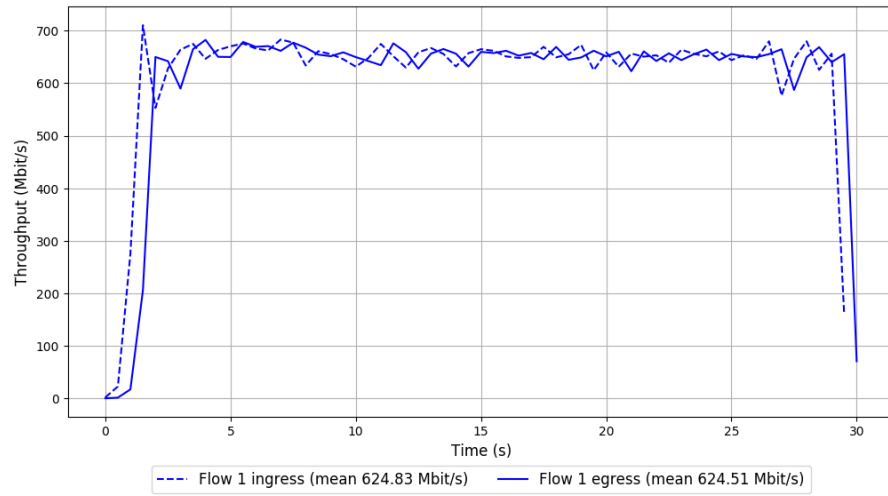
-- Flow 1:

Average throughput: 624.51 Mbit/s

95th percentile per-packet one-way delay: 68.035 ms

Loss rate: 0.44%

## Run 2: Report of Muses\_DecisionTree — Data Link

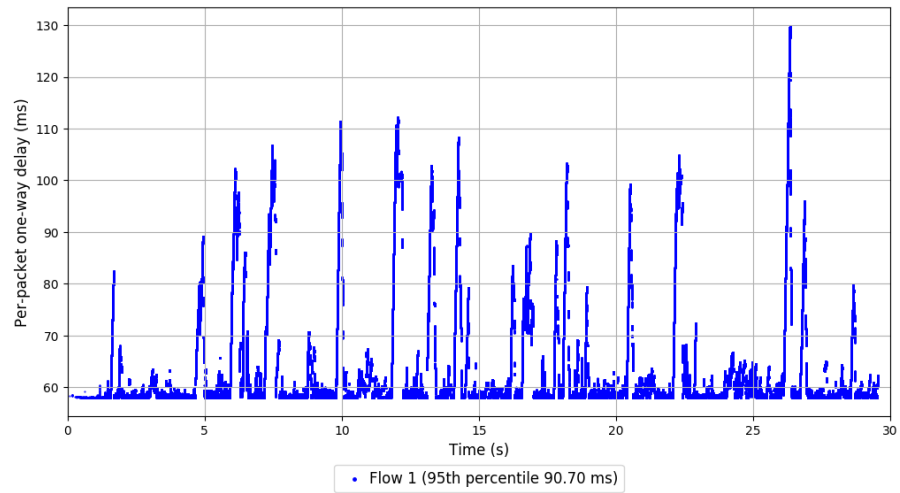
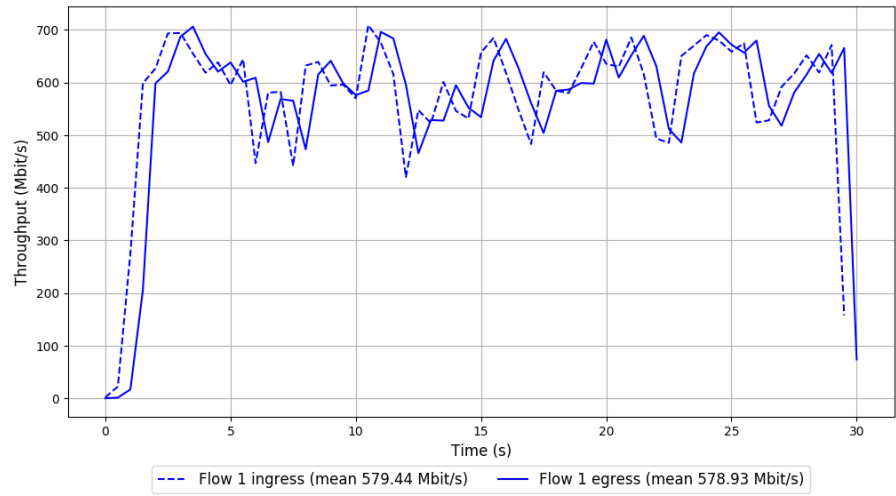


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 00:35:42  
End at: 2019-09-19 00:36:12  
Local clock offset: 0.33 ms  
Remote clock offset: -0.787 ms

# Below is generated by plot.py at 2019-09-19 03:19:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 578.93 Mbit/s  
95th percentile per-packet one-way delay: 90.702 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 578.93 Mbit/s  
95th percentile per-packet one-way delay: 90.702 ms  
Loss rate: 0.47%

### Run 3: Report of Muses\_DecisionTree — Data Link



Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 01:11:03

End at: 2019-09-19 01:11:33

Local clock offset: -0.287 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-09-19 03:20:19

# Datalink statistics

-- Total of 1 flow:

Average throughput: 574.06 Mbit/s

95th percentile per-packet one-way delay: 81.178 ms

Loss rate: 0.40%

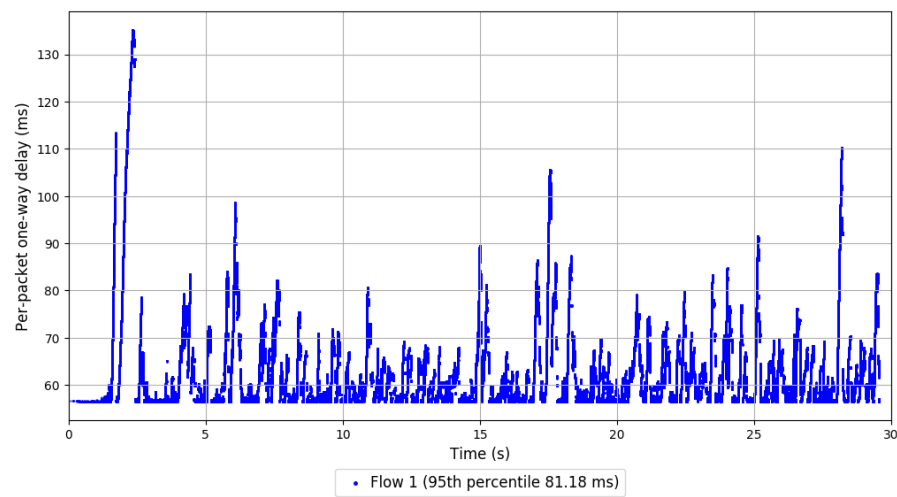
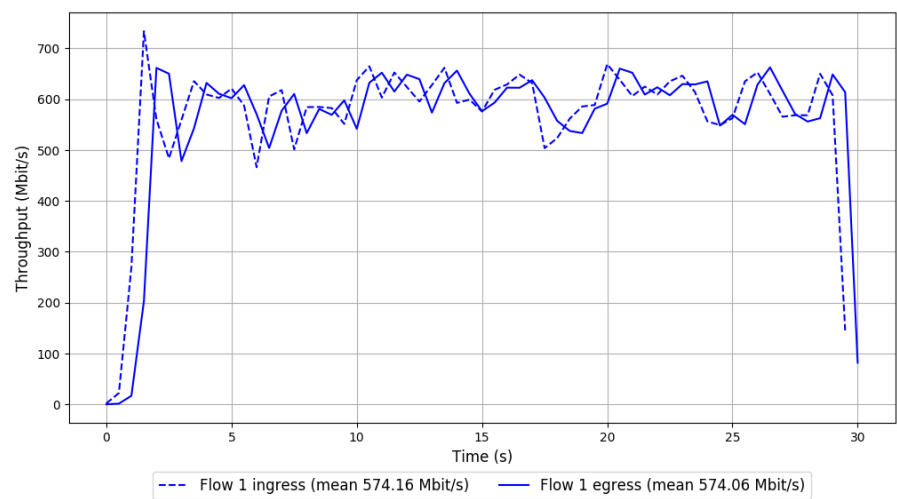
-- Flow 1:

Average throughput: 574.06 Mbit/s

95th percentile per-packet one-way delay: 81.178 ms

Loss rate: 0.40%

Run 4: Report of Muses\_DecisionTree — Data Link

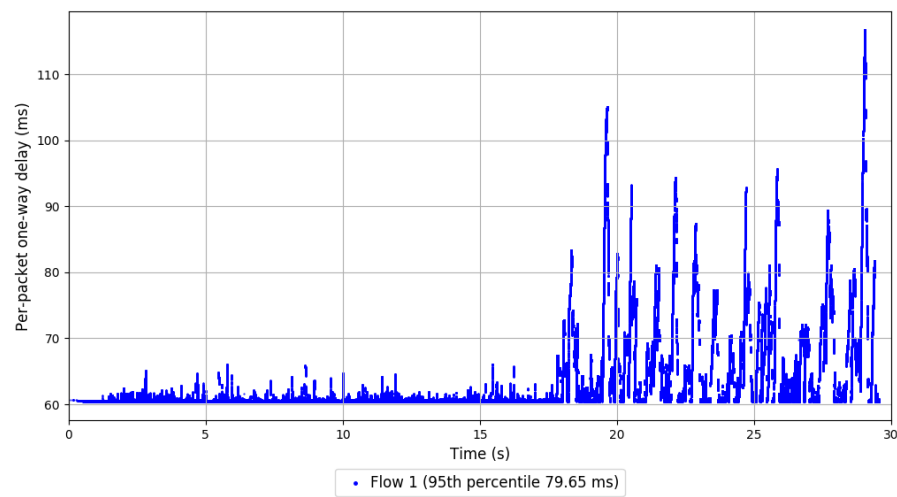
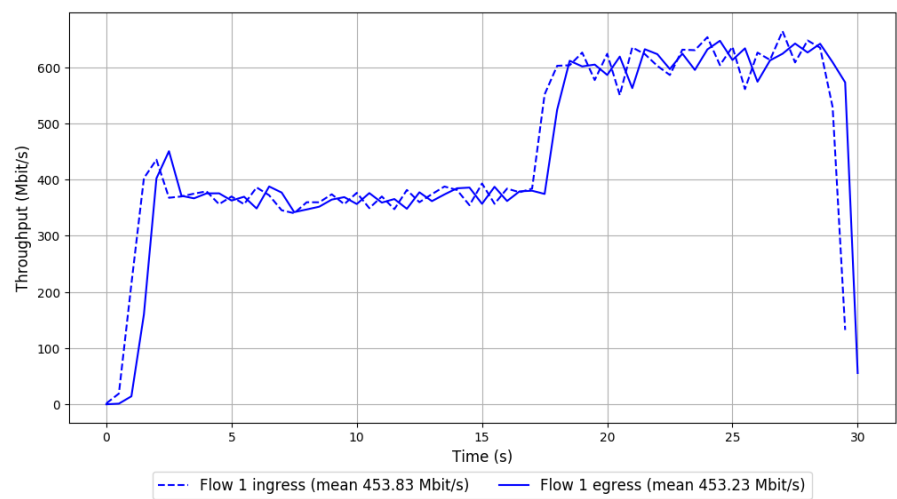


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-19 01:46:14  
End at: 2019-09-19 01:46:44  
Local clock offset: -0.028 ms  
Remote clock offset: -0.234 ms

# Below is generated by plot.py at 2019-09-19 03:20:19  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 453.23 Mbit/s  
95th percentile per-packet one-way delay: 79.654 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 453.23 Mbit/s  
95th percentile per-packet one-way delay: 79.654 ms  
Loss rate: 0.53%

Run 5: Report of Muses\_DecisionTree — Data Link



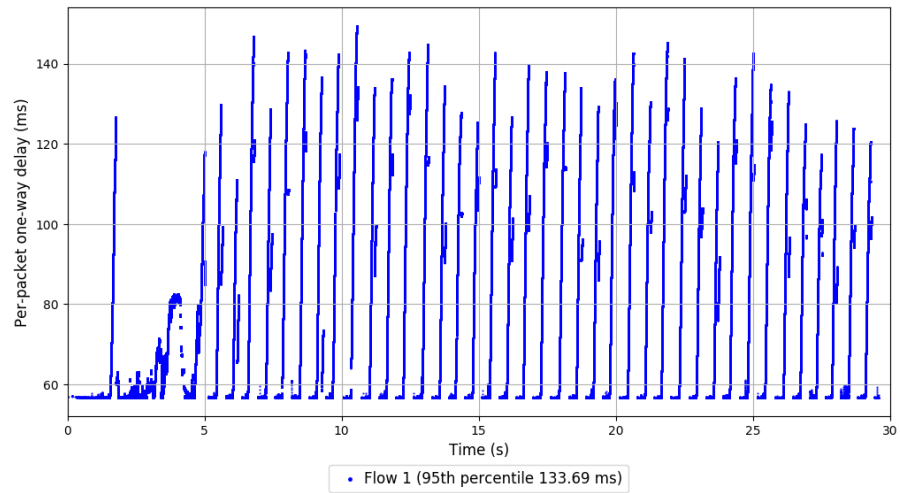
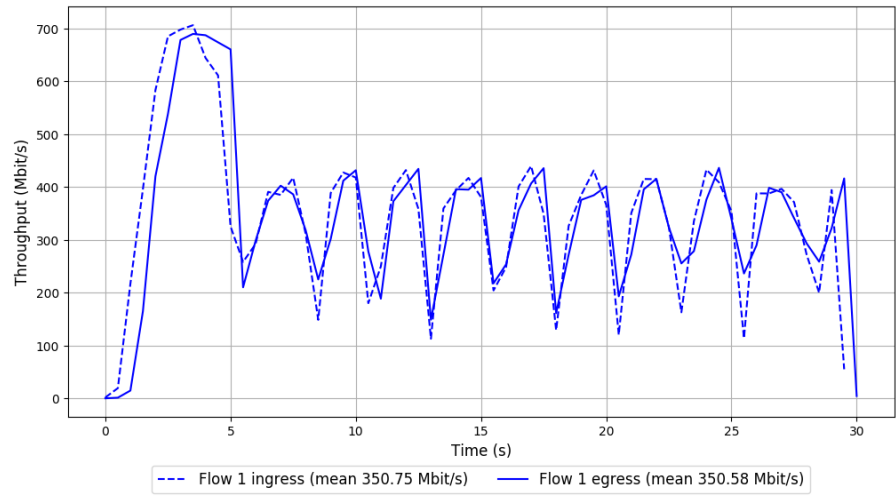


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-18 23:08:01
End at: 2019-09-18 23:08:31
Local clock offset: -0.114 ms
Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-09-19 03:20:41
# Datalink statistics
-- Total of 1 flow:
Average throughput: 350.58 Mbit/s
95th percentile per-packet one-way delay: 133.691 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 350.58 Mbit/s
95th percentile per-packet one-way delay: 133.691 ms
Loss rate: 0.43%
```

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

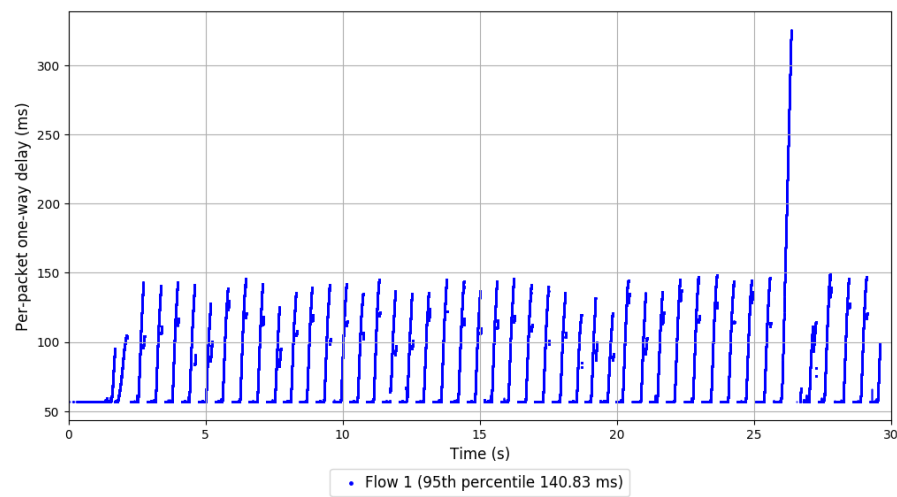
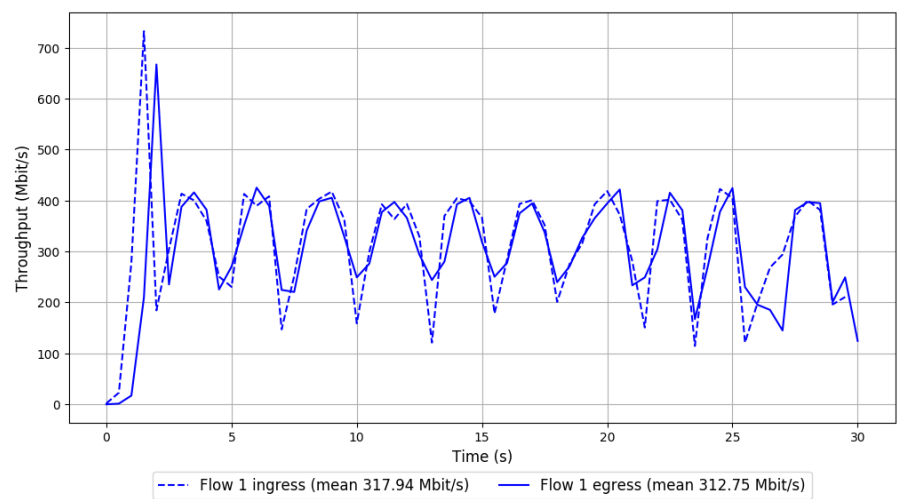


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 23:42:53  
End at: 2019-09-18 23:43:23  
Local clock offset: -0.069 ms  
Remote clock offset: -0.006 ms

# Below is generated by plot.py at 2019-09-19 03:20:41  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 312.75 Mbit/s  
95th percentile per-packet one-way delay: 140.830 ms  
Loss rate: 1.94%  
-- Flow 1:  
Average throughput: 312.75 Mbit/s  
95th percentile per-packet one-way delay: 140.830 ms  
Loss rate: 1.94%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

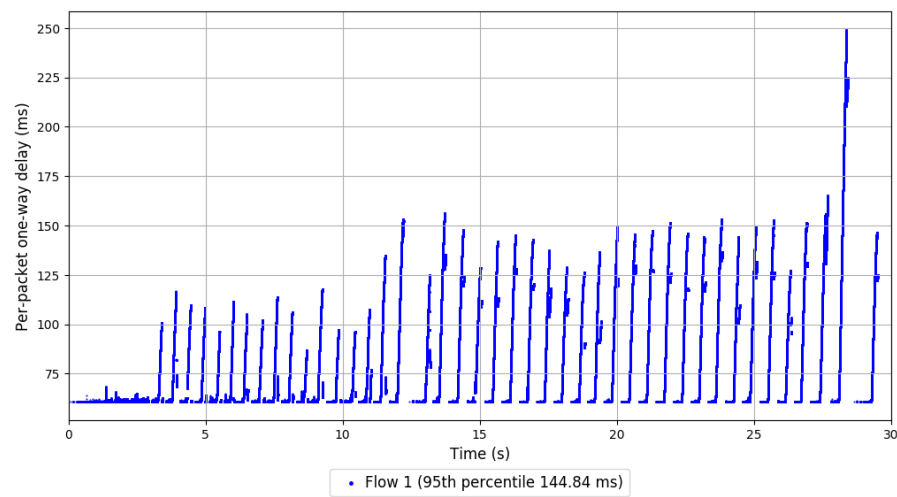
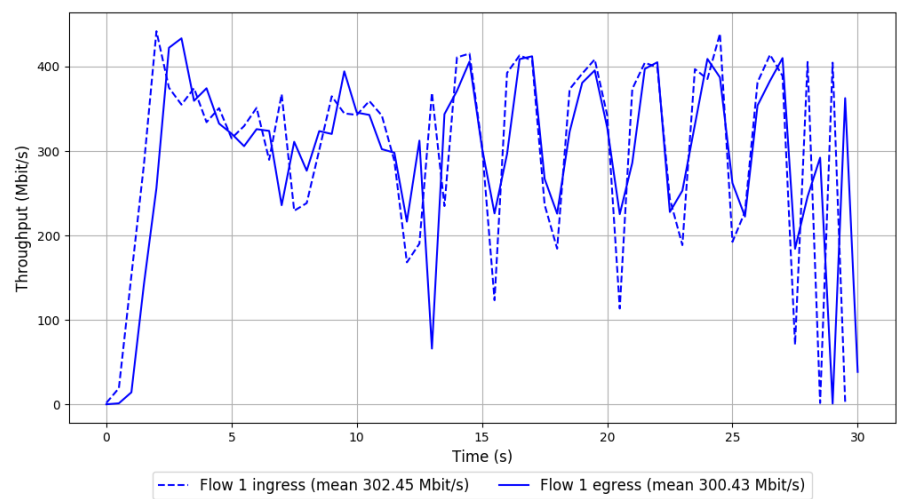


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 00:18:01  
End at: 2019-09-19 00:18:31  
Local clock offset: -0.105 ms  
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2019-09-19 03:21:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 300.43 Mbit/s  
95th percentile per-packet one-way delay: 144.838 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 300.43 Mbit/s  
95th percentile per-packet one-way delay: 144.838 ms  
Loss rate: 1.28%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

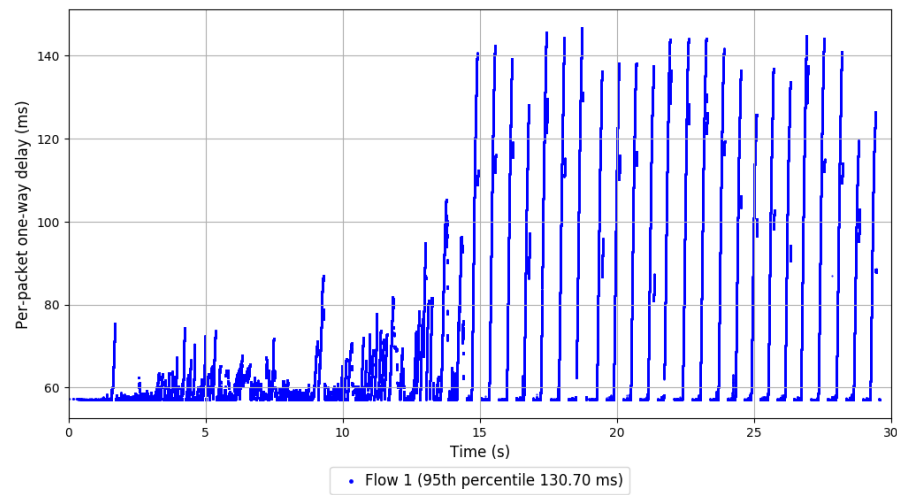
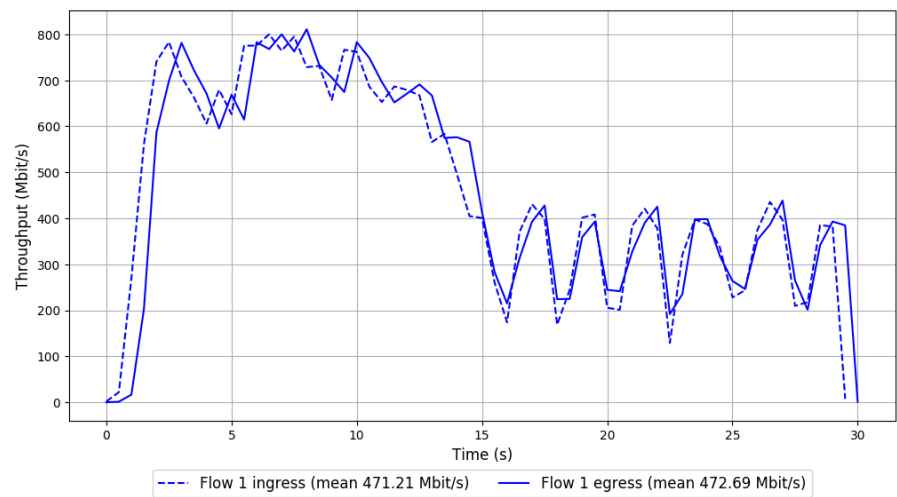


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-19 00:53:19  
End at: 2019-09-19 00:53:49  
Local clock offset: 0.086 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-09-19 03:26:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 472.69 Mbit/s  
95th percentile per-packet one-way delay: 130.702 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 472.69 Mbit/s  
95th percentile per-packet one-way delay: 130.702 ms  
Loss rate: 0.07%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



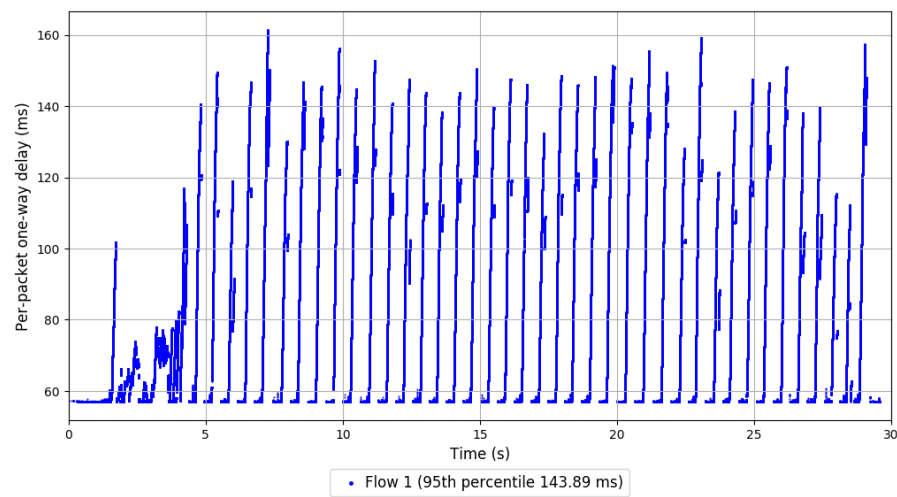
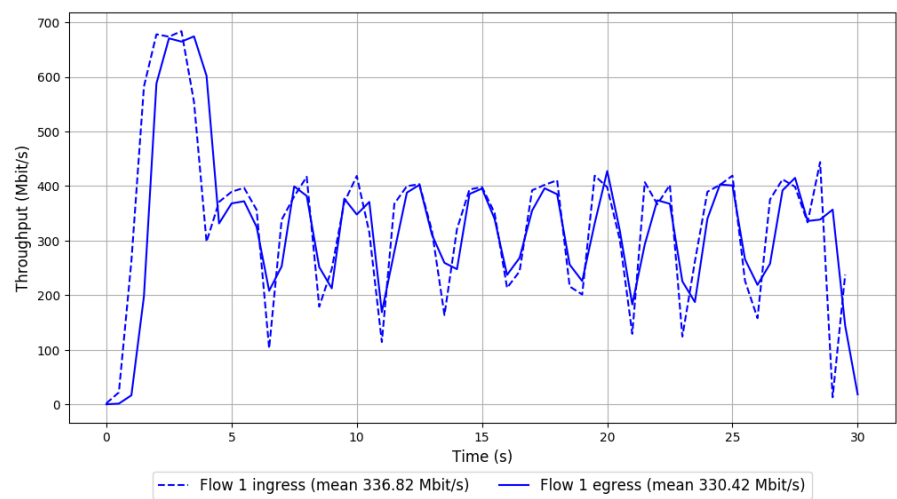


```
Run 5: Statistics of Muses\_DecisionTreeH0

Start at: 2019-09-19 01:28:36
End at: 2019-09-19 01:29:06
Local clock offset: -0.239 ms
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-09-19 03:26:01
# Datalink statistics
-- Total of 1 flow:
Average throughput: 330.42 Mbit/s
95th percentile per-packet one-way delay: 143.887 ms
Loss rate: 2.28%
-- Flow 1:
Average throughput: 330.42 Mbit/s
95th percentile per-packet one-way delay: 143.887 ms
Loss rate: 2.28%
```

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

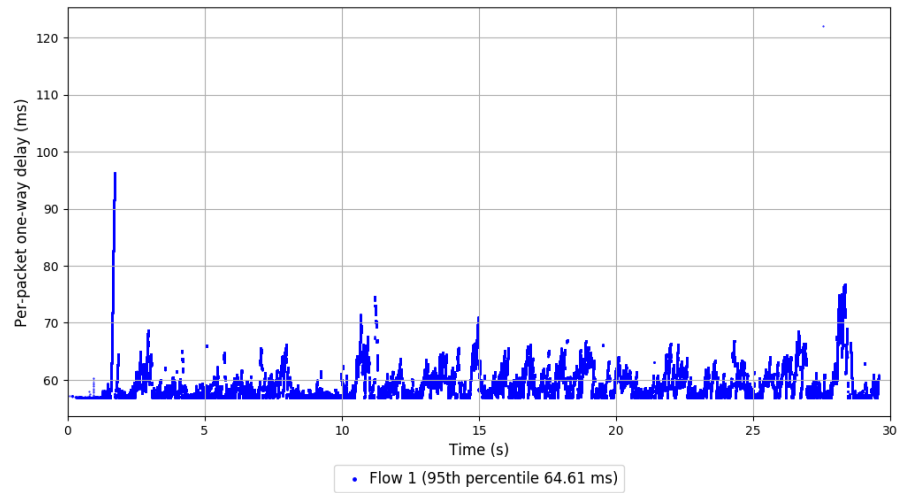
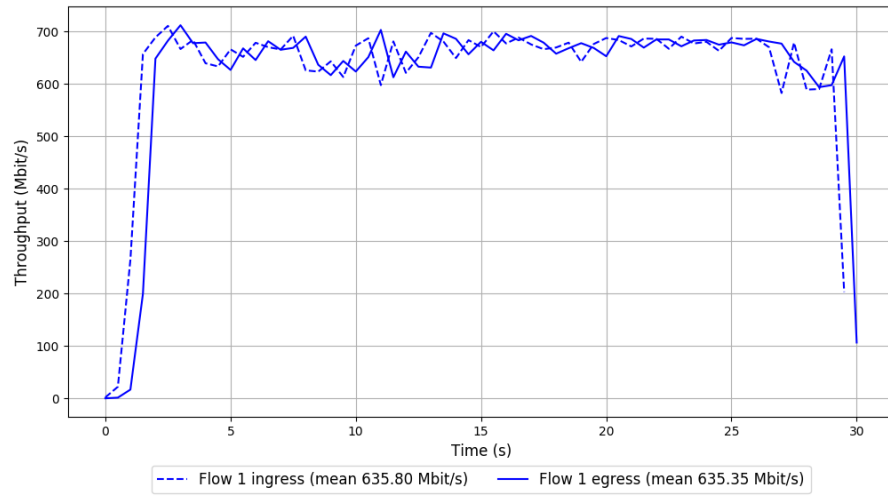


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-09-18 23:19:50
End at: 2019-09-18 23:20:20
Local clock offset: -0.334 ms
Remote clock offset: 0.03 ms

# Below is generated by plot.py at 2019-09-19 03:29:51
# Datalink statistics
-- Total of 1 flow:
Average throughput: 635.35 Mbit/s
95th percentile per-packet one-way delay: 64.611 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 635.35 Mbit/s
95th percentile per-packet one-way delay: 64.611 ms
Loss rate: 0.46%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 23:54:50

End at: 2019-09-18 23:55:20

Local clock offset: -0.047 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-09-19 03:30:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 619.16 Mbit/s

95th percentile per-packet one-way delay: 62.897 ms

Loss rate: 0.41%

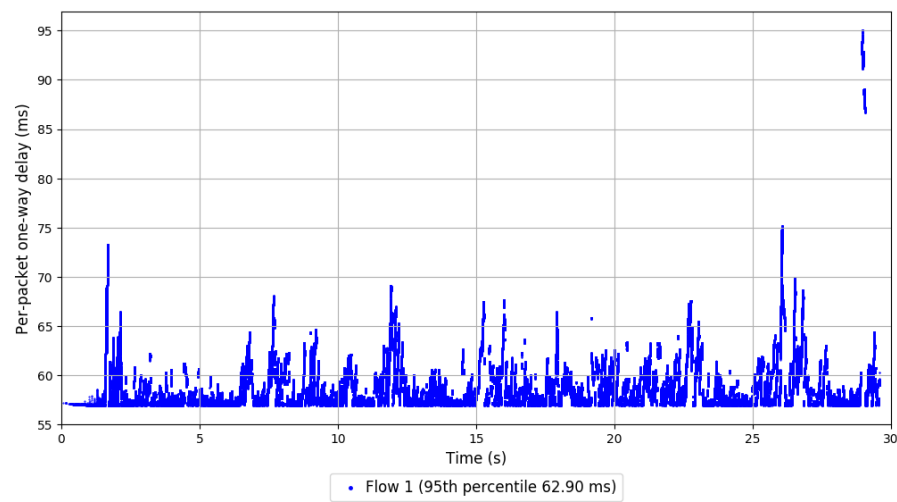
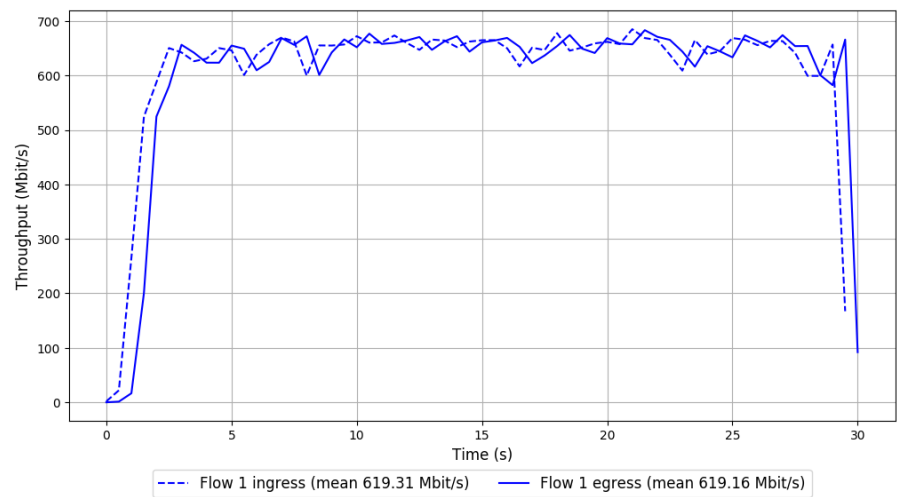
-- Flow 1:

Average throughput: 619.16 Mbit/s

95th percentile per-packet one-way delay: 62.897 ms

Loss rate: 0.41%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

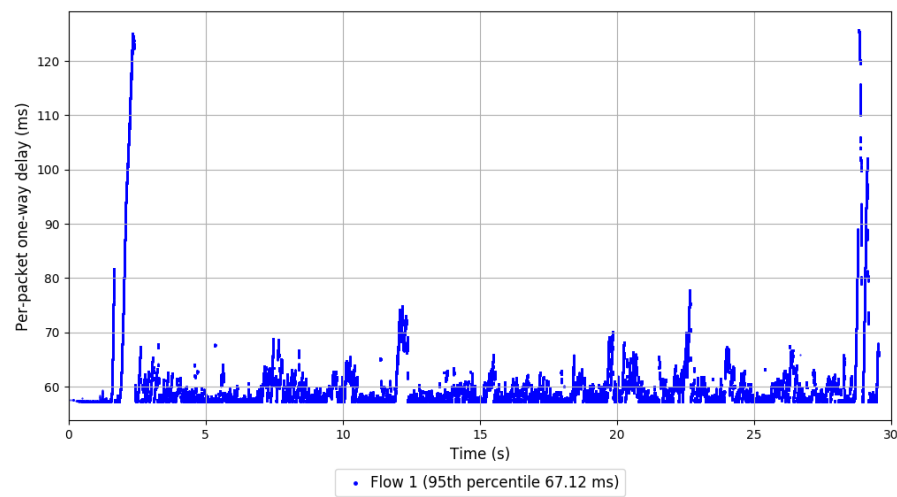
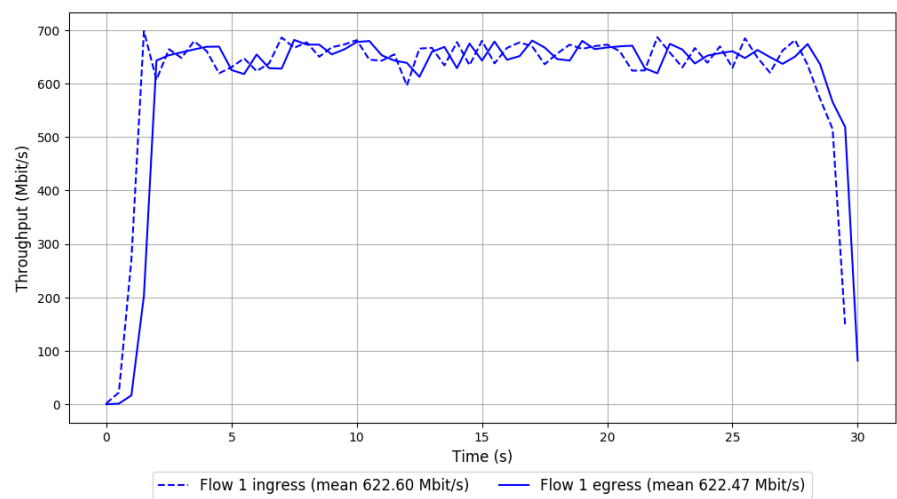


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 00:29:53  
End at: 2019-09-19 00:30:23  
Local clock offset: -0.079 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-09-19 03:31:01  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 622.47 Mbit/s  
95th percentile per-packet one-way delay: 67.118 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 622.47 Mbit/s  
95th percentile per-packet one-way delay: 67.118 ms  
Loss rate: 0.41%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



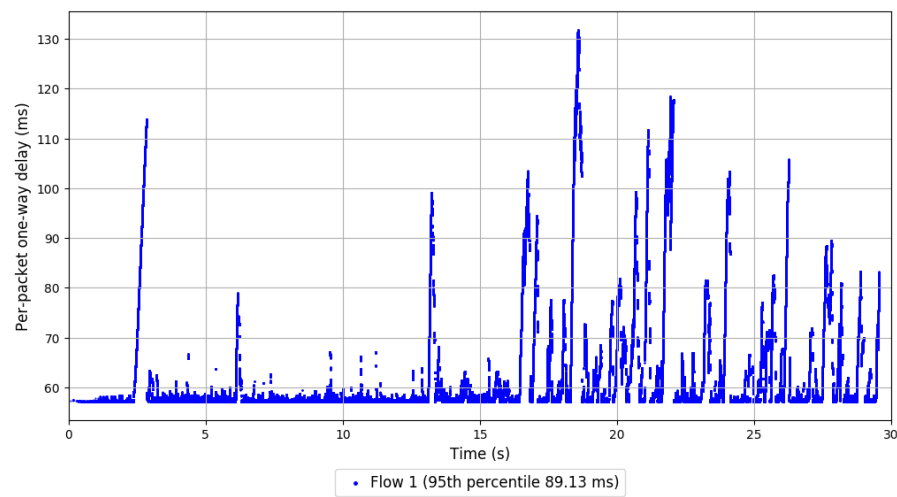
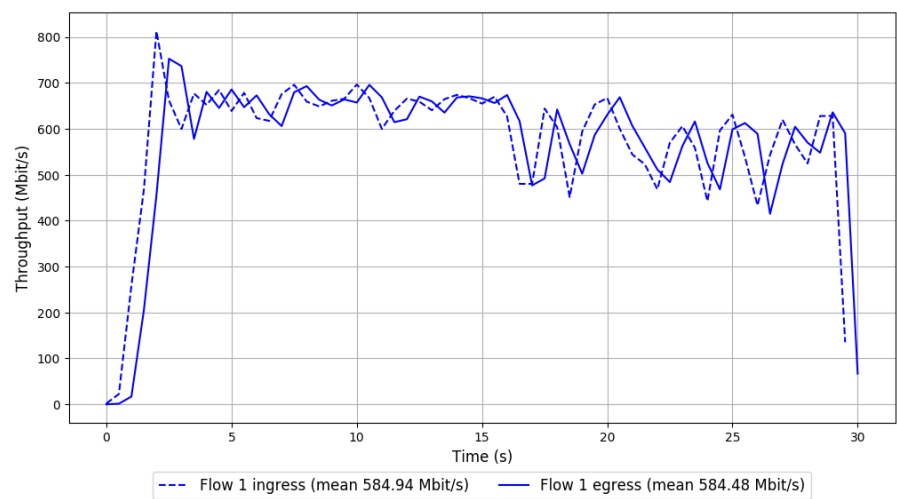


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 01:05:16  
End at: 2019-09-19 01:05:46  
Local clock offset: 0.327 ms  
Remote clock offset: -0.117 ms

# Below is generated by plot.py at 2019-09-19 03:31:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 584.48 Mbit/s  
95th percentile per-packet one-way delay: 89.128 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 584.48 Mbit/s  
95th percentile per-packet one-way delay: 89.128 ms  
Loss rate: 0.47%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

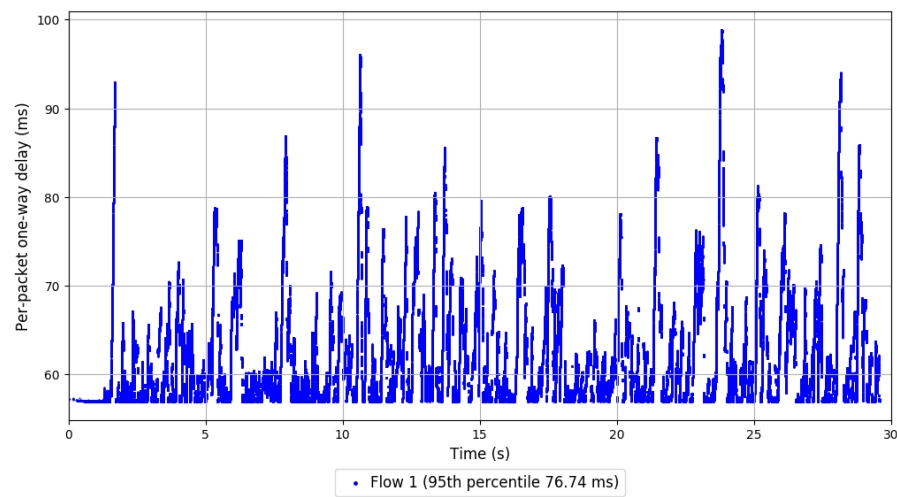
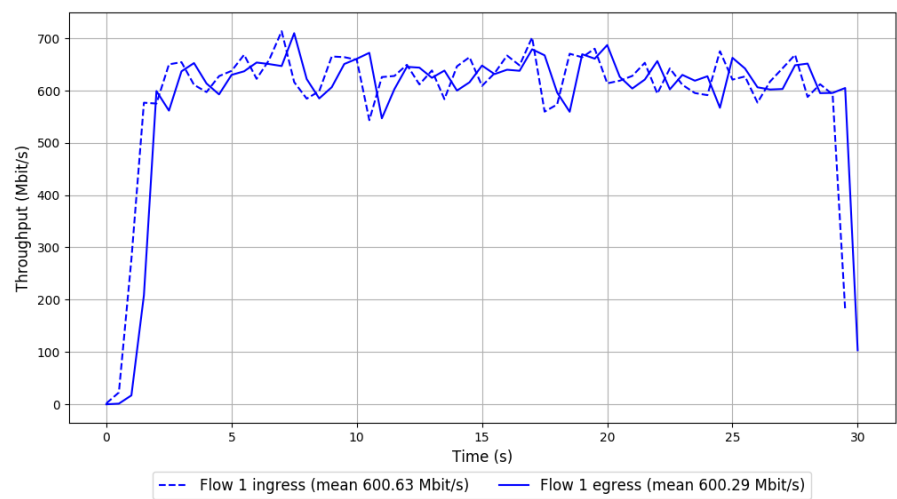


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-19 01:40:28  
End at: 2019-09-19 01:40:58  
Local clock offset: 0.093 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-09-19 03:31:13  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 600.29 Mbit/s  
95th percentile per-packet one-way delay: 76.739 ms  
Loss rate: 0.44%  
-- Flow 1:  
Average throughput: 600.29 Mbit/s  
95th percentile per-packet one-way delay: 76.739 ms  
Loss rate: 0.44%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

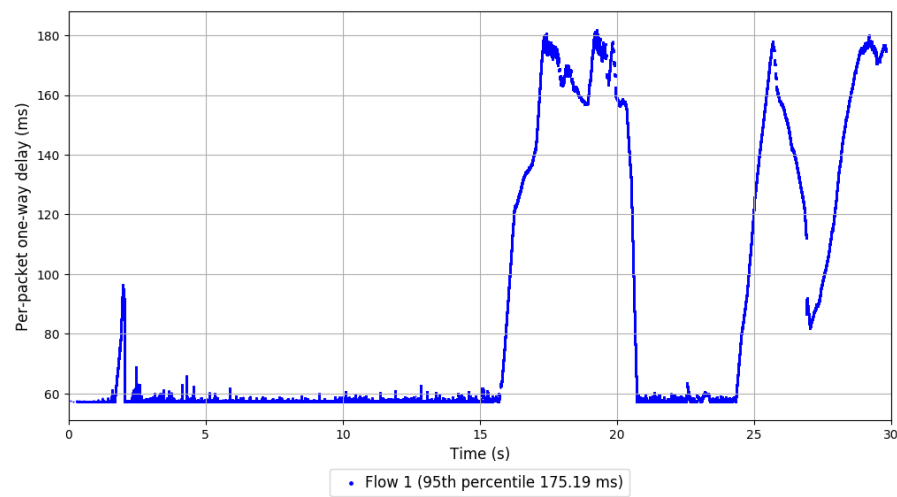
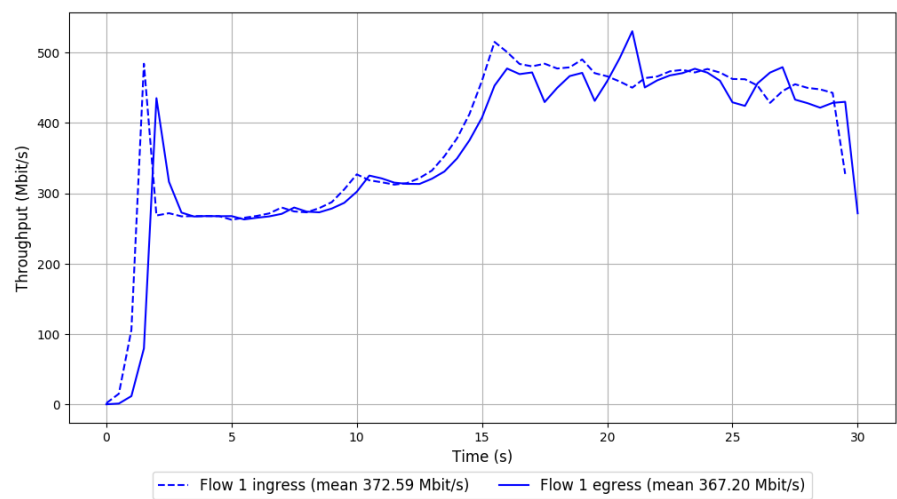


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 23:15:30
End at: 2019-09-18 23:16:00
Local clock offset: 0.09 ms
Remote clock offset: 0.069 ms

# Below is generated by plot.py at 2019-09-19 03:33:43
# Datalink statistics
-- Total of 1 flow:
Average throughput: 367.20 Mbit/s
95th percentile per-packet one-way delay: 175.192 ms
Loss rate: 1.82%
-- Flow 1:
Average throughput: 367.20 Mbit/s
95th percentile per-packet one-way delay: 175.192 ms
Loss rate: 1.82%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 23:50:29

End at: 2019-09-18 23:50:59

Local clock offset: 0.186 ms

Remote clock offset: 0.107 ms

# Below is generated by plot.py at 2019-09-19 03:36:47

# Datalink statistics

-- Total of 1 flow:

Average throughput: 373.01 Mbit/s

95th percentile per-packet one-way delay: 166.749 ms

Loss rate: 0.56%

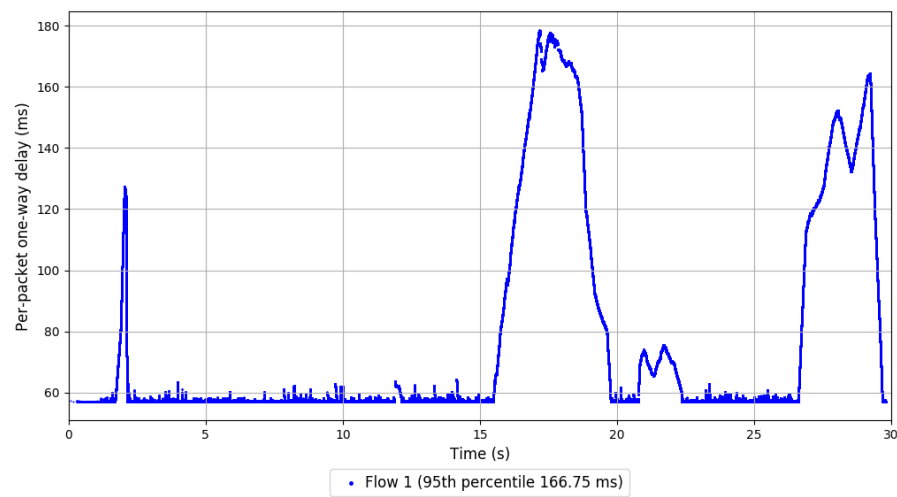
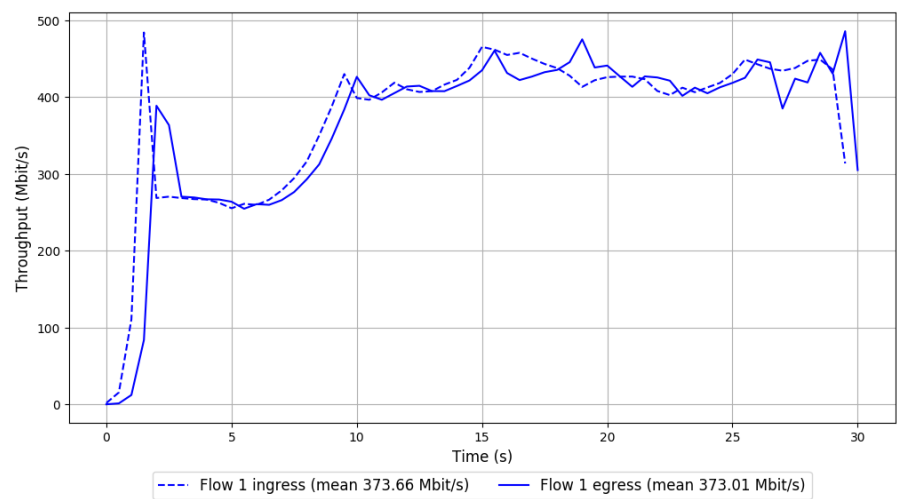
-- Flow 1:

Average throughput: 373.01 Mbit/s

95th percentile per-packet one-way delay: 166.749 ms

Loss rate: 0.56%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-09-19 00:25:23

End at: 2019-09-19 00:25:53

Local clock offset: 0.336 ms

Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-09-19 03:43:15

# Datalink statistics

-- Total of 1 flow:

Average throughput: 467.78 Mbit/s

95th percentile per-packet one-way delay: 181.823 ms

Loss rate: 4.95%

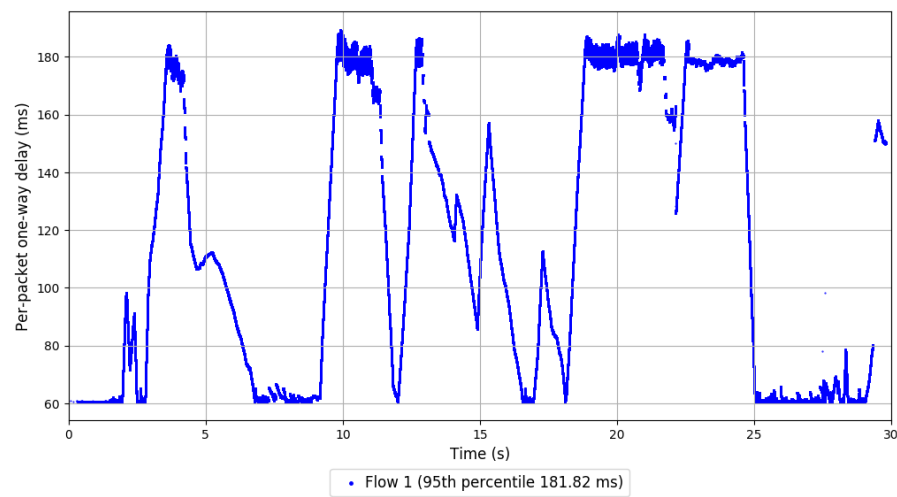
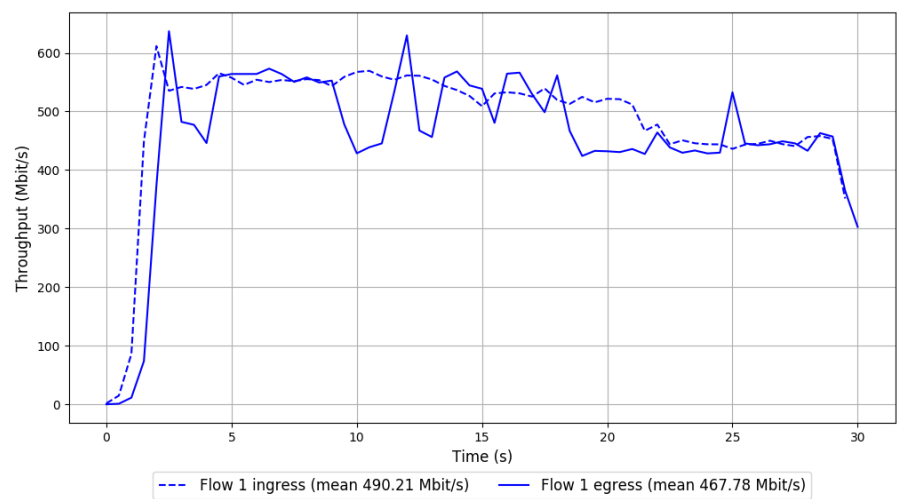
-- Flow 1:

Average throughput: 467.78 Mbit/s

95th percentile per-packet one-way delay: 181.823 ms

Loss rate: 4.95%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-09-19 01:00:52

End at: 2019-09-19 01:01:22

Local clock offset: -0.071 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-09-19 03:44:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 431.14 Mbit/s

95th percentile per-packet one-way delay: 167.905 ms

Loss rate: 1.46%

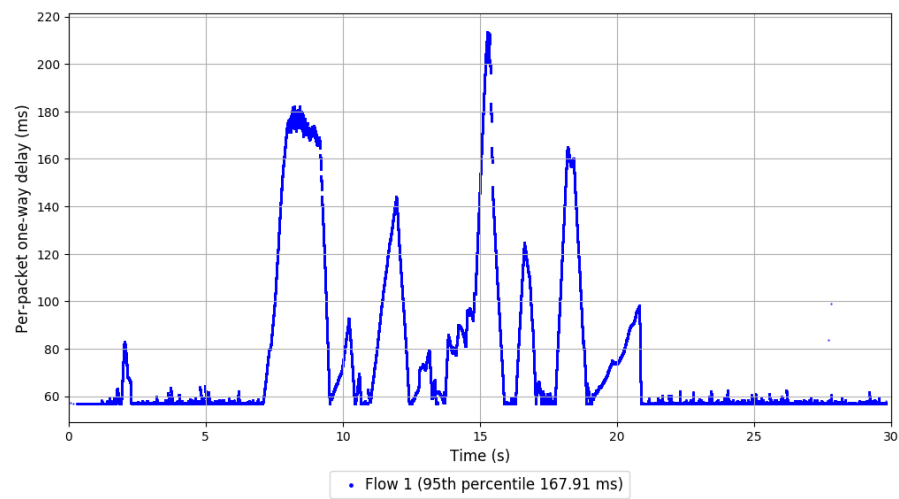
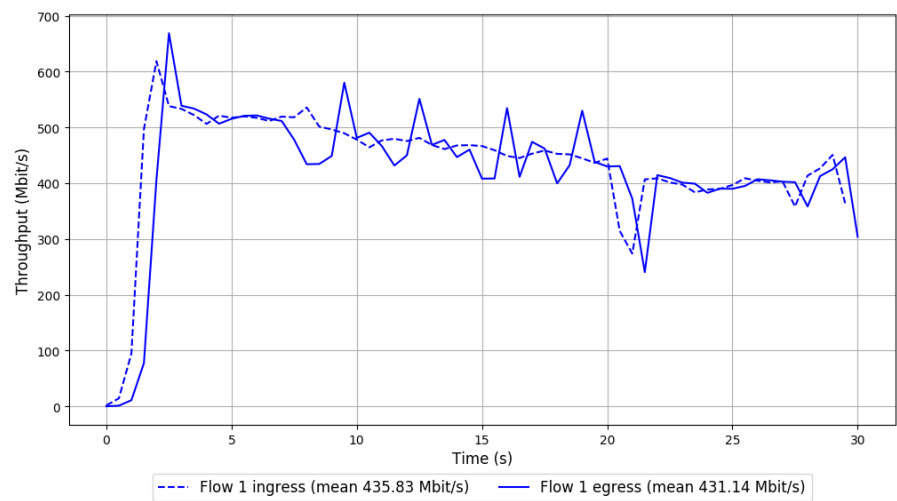
-- Flow 1:

Average throughput: 431.14 Mbit/s

95th percentile per-packet one-way delay: 167.905 ms

Loss rate: 1.46%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-19 01:36:09

End at: 2019-09-19 01:36:39

Local clock offset: 0.337 ms

Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-09-19 03:44:55

# Datalink statistics

-- Total of 1 flow:

Average throughput: 338.86 Mbit/s

95th percentile per-packet one-way delay: 175.216 ms

Loss rate: 1.42%

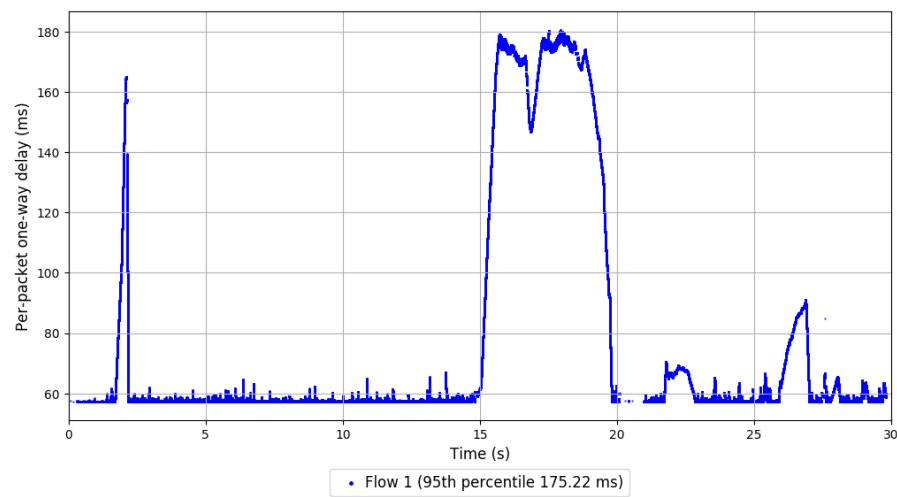
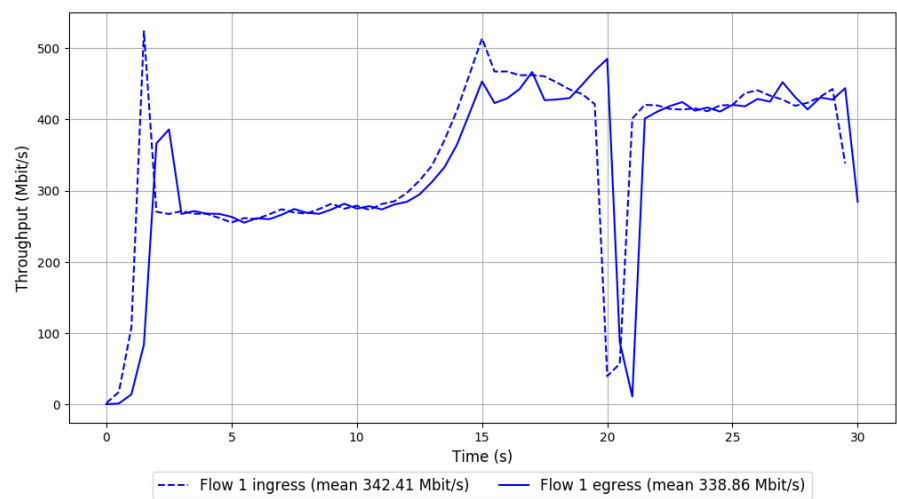
-- Flow 1:

Average throughput: 338.86 Mbit/s

95th percentile per-packet one-way delay: 175.216 ms

Loss rate: 1.42%

Run 5: Report of PCC-Allegro — Data Link

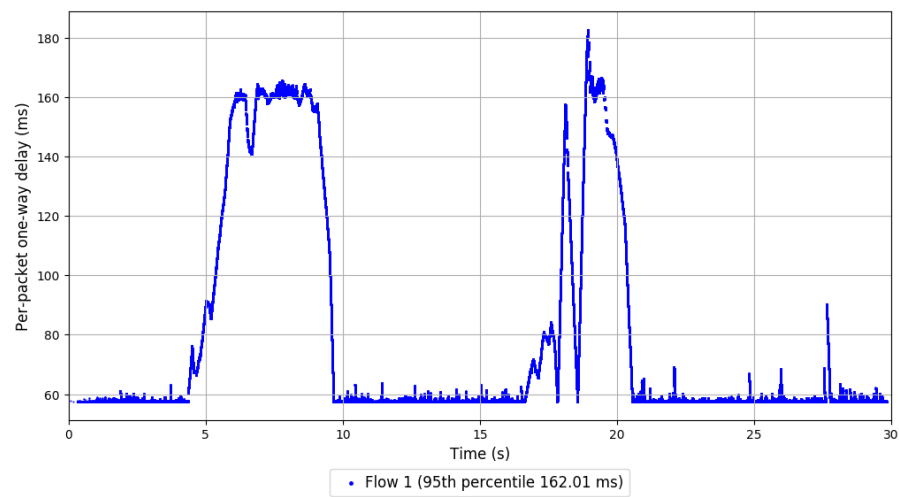
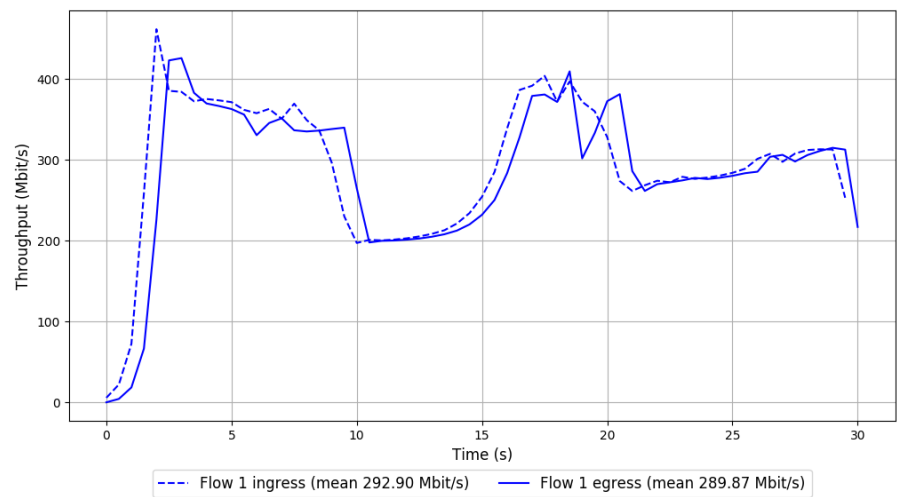


```
Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 23:12:13
End at: 2019-09-18 23:12:43
Local clock offset: 0.109 ms
Remote clock offset: -0.626 ms

# Below is generated by plot.py at 2019-09-19 03:44:55
# Datalink statistics
-- Total of 1 flow:
Average throughput: 289.87 Mbit/s
95th percentile per-packet one-way delay: 162.006 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 289.87 Mbit/s
95th percentile per-packet one-way delay: 162.006 ms
Loss rate: 1.42%
```

Run 1: Report of PCC-Expr — Data Link



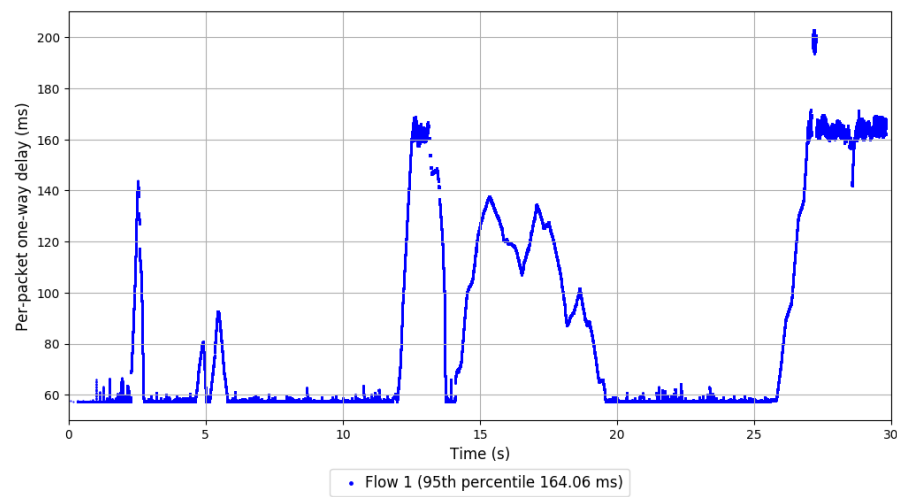
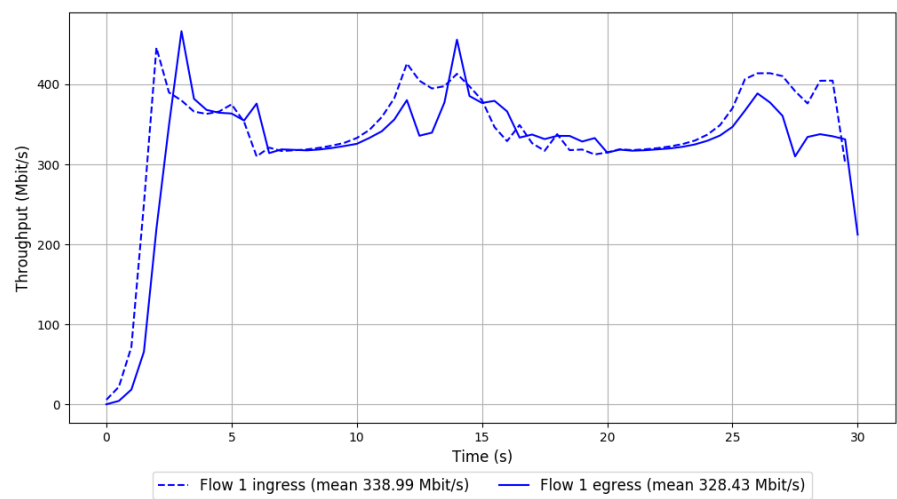


Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 23:47:10  
End at: 2019-09-18 23:47:40  
Local clock offset: 0.328 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-09-19 03:44:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 328.43 Mbit/s  
95th percentile per-packet one-way delay: 164.058 ms  
Loss rate: 3.49%  
-- Flow 1:  
Average throughput: 328.43 Mbit/s  
95th percentile per-packet one-way delay: 164.058 ms  
Loss rate: 3.49%

Run 2: Report of PCC-Expr — Data Link

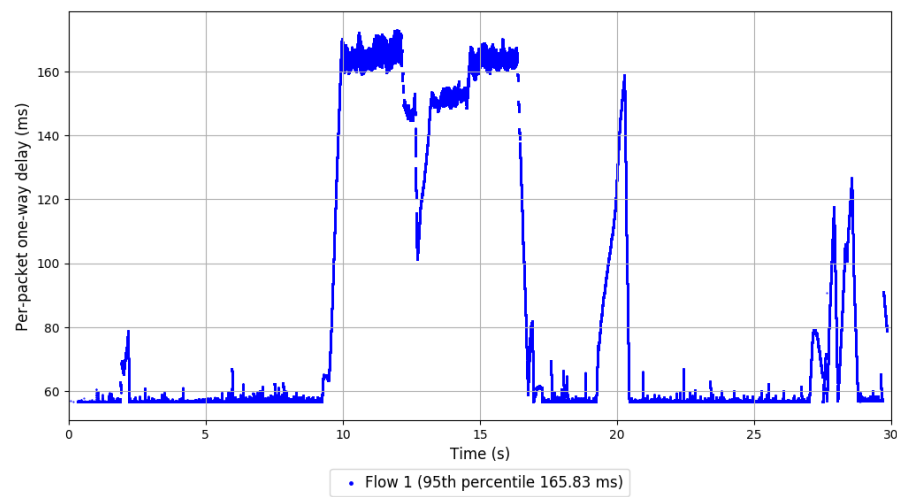
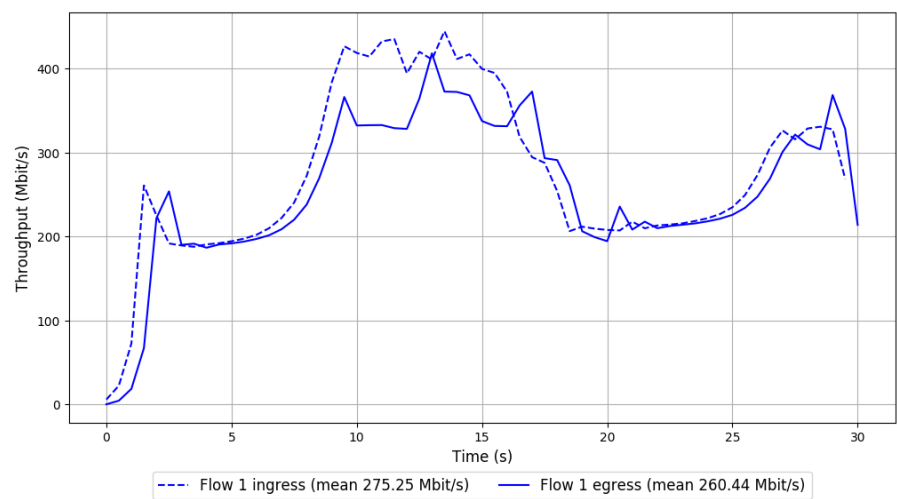


Run 3: Statistics of PCC-Expr

Start at: 2019-09-19 00:22:10  
End at: 2019-09-19 00:22:40  
Local clock offset: -0.085 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-09-19 03:44:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 260.44 Mbit/s  
95th percentile per-packet one-way delay: 165.832 ms  
Loss rate: 5.74%  
-- Flow 1:  
Average throughput: 260.44 Mbit/s  
95th percentile per-packet one-way delay: 165.832 ms  
Loss rate: 5.74%

Run 3: Report of PCC-Expr — Data Link

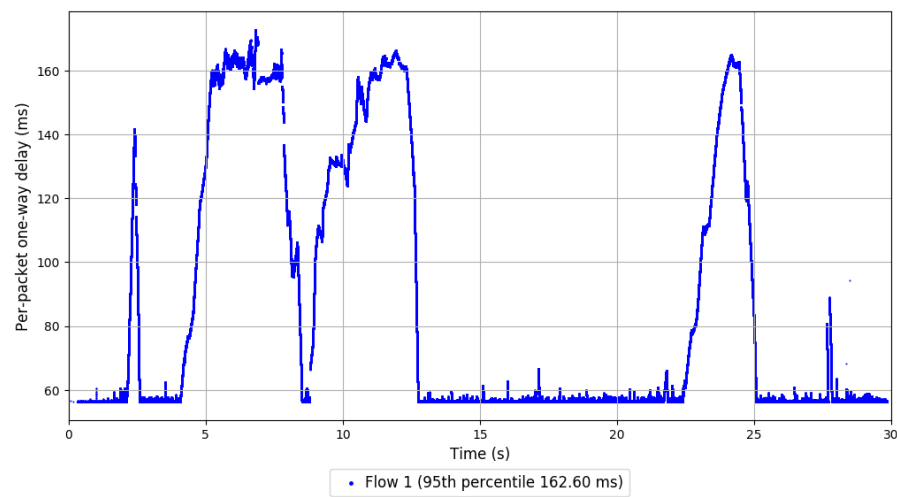
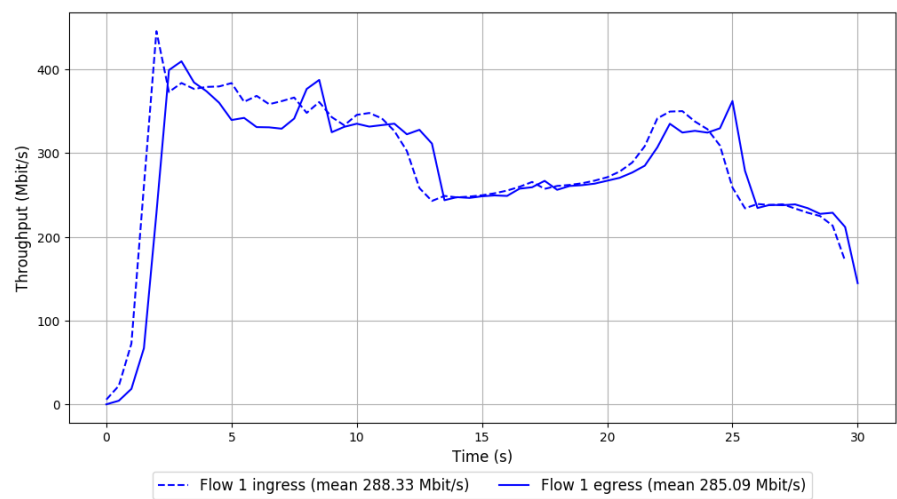


Run 4: Statistics of PCC-Expr

Start at: 2019-09-19 00:57:38  
End at: 2019-09-19 00:58:08  
Local clock offset: -0.462 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-09-19 03:44:55  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 285.09 Mbit/s  
95th percentile per-packet one-way delay: 162.596 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 285.09 Mbit/s  
95th percentile per-packet one-way delay: 162.596 ms  
Loss rate: 1.51%

Run 4: Report of PCC-Expr — Data Link

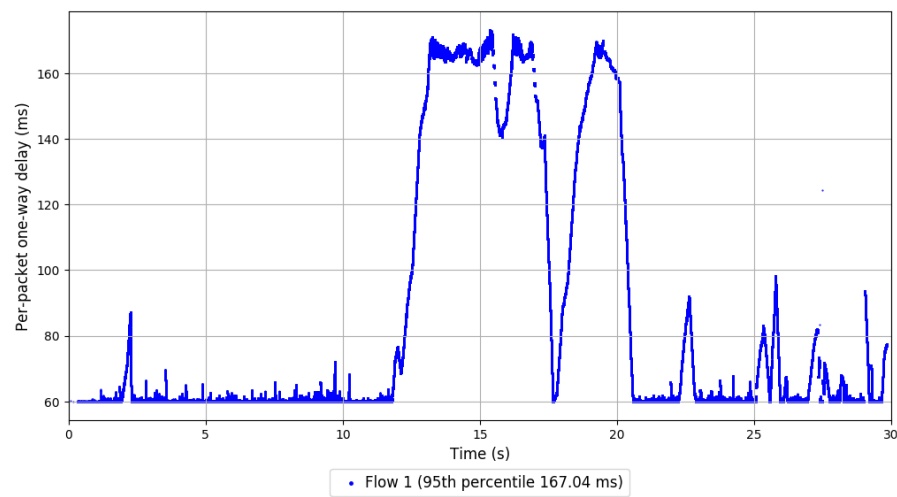
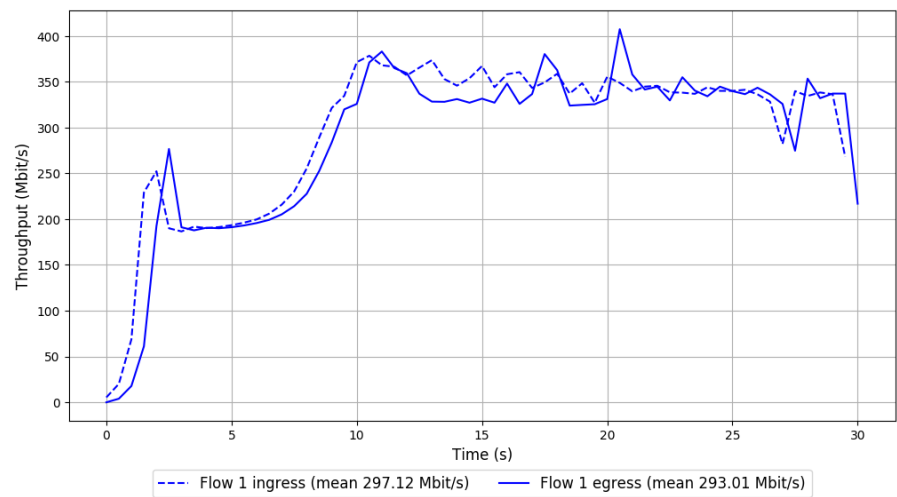


Run 5: Statistics of PCC-Expr

Start at: 2019-09-19 01:32:49  
End at: 2019-09-19 01:33:19  
Local clock offset: -0.507 ms  
Remote clock offset: -0.277 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 293.01 Mbit/s  
95th percentile per-packet one-way delay: 167.044 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 293.01 Mbit/s  
95th percentile per-packet one-way delay: 167.044 ms  
Loss rate: 1.77%

Run 5: Report of PCC-Expr — Data Link





Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 23:00:52

End at: 2019-09-18 23:01:22

Local clock offset: -0.252 ms

Remote clock offset: -0.539 ms

# Below is generated by plot.py at 2019-09-19 03:47:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 57.577 ms

Loss rate: 0.60%

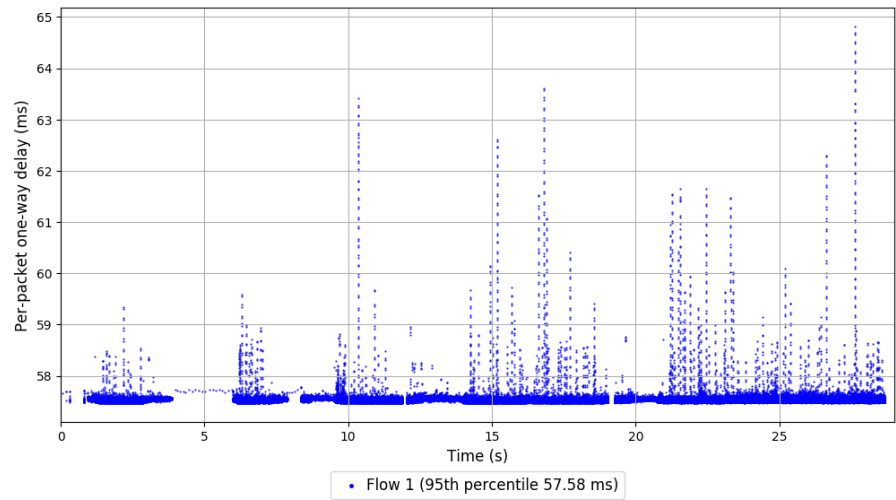
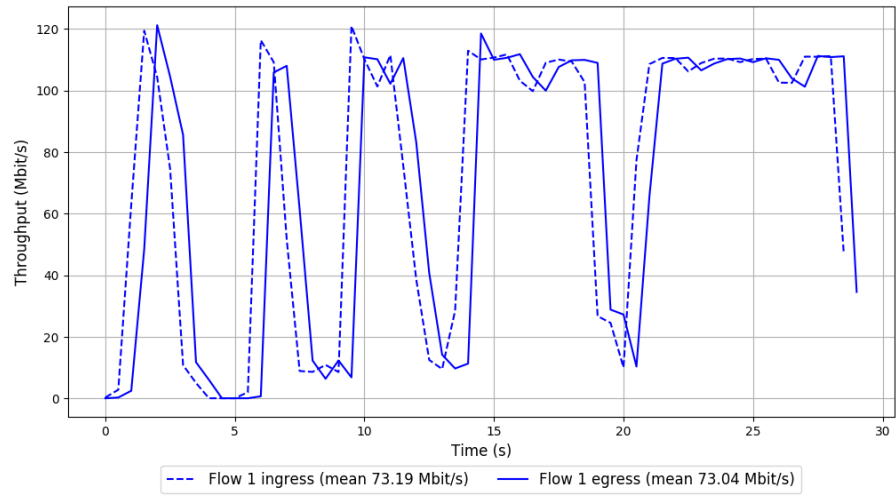
-- Flow 1:

Average throughput: 73.04 Mbit/s

95th percentile per-packet one-way delay: 57.577 ms

Loss rate: 0.60%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 23:35:35

End at: 2019-09-18 23:36:05

Local clock offset: -0.079 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-09-19 03:47:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 56.814 ms

Loss rate: 0.55%

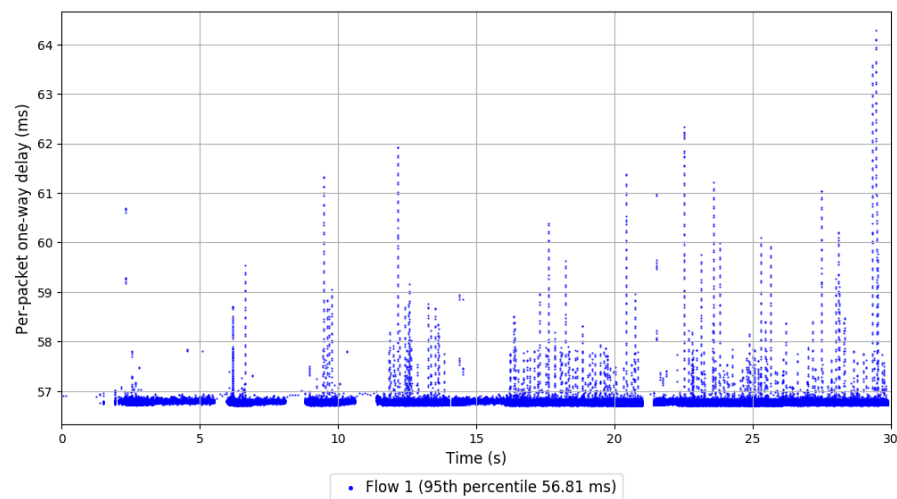
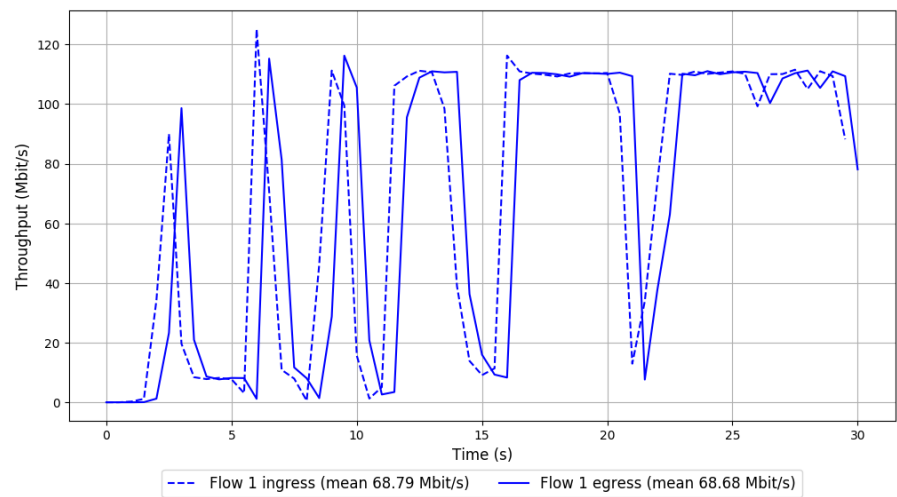
-- Flow 1:

Average throughput: 68.68 Mbit/s

95th percentile per-packet one-way delay: 56.814 ms

Loss rate: 0.55%

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

Start at: 2019-09-19 00:10:58

End at: 2019-09-19 00:11:28

Local clock offset: -0.039 ms

Remote clock offset: 0.008 ms

# Below is generated by plot.py at 2019-09-19 03:47:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 60.163 ms

Loss rate: 0.61%

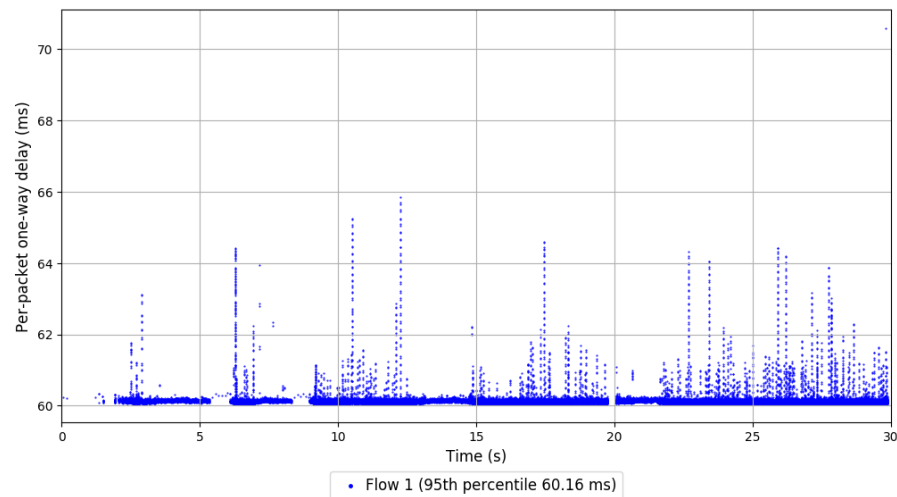
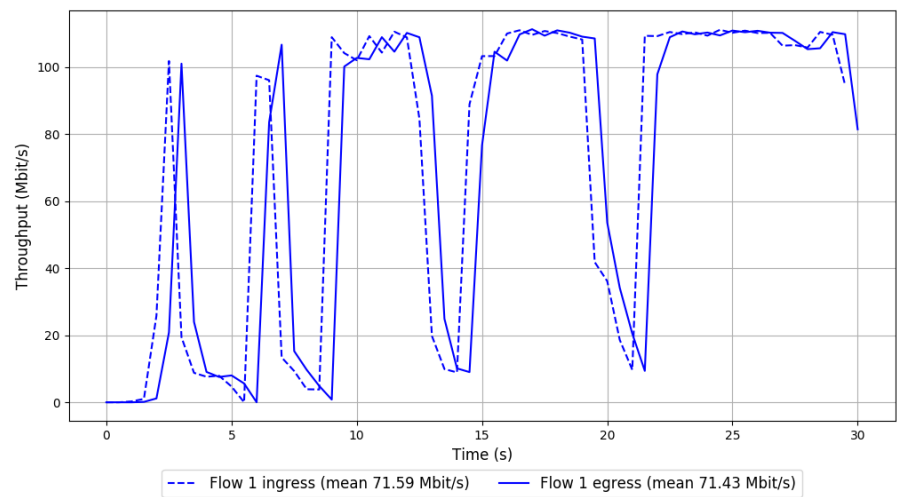
-- Flow 1:

Average throughput: 71.43 Mbit/s

95th percentile per-packet one-way delay: 60.163 ms

Loss rate: 0.61%

Run 3: Report of QUIC Cubic — Data Link

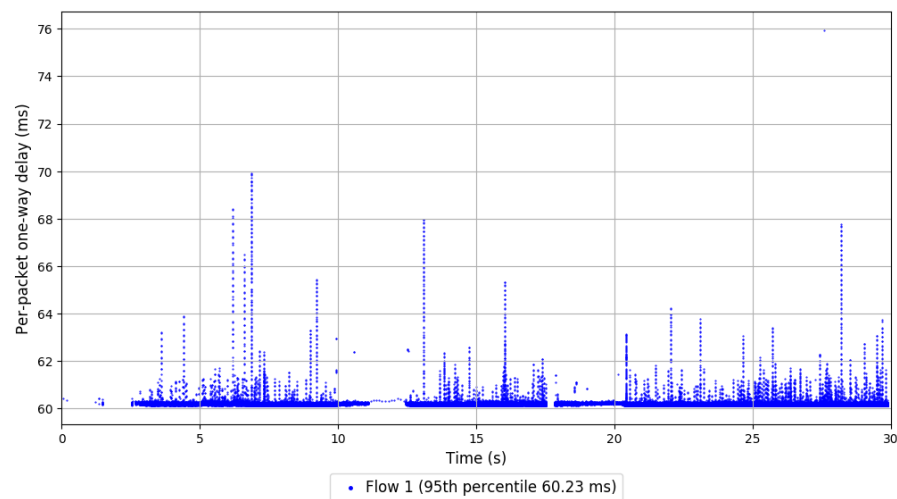
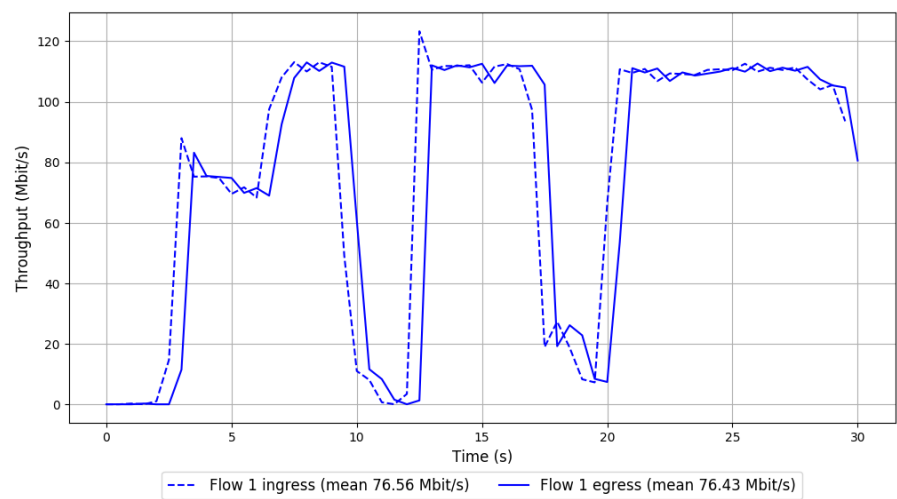


Run 4: Statistics of QUIC Cubic

Start at: 2019-09-19 00:46:00  
End at: 2019-09-19 00:46:30  
Local clock offset: -0.08 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 76.43 Mbit/s  
95th percentile per-packet one-way delay: 60.235 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 76.43 Mbit/s  
95th percentile per-packet one-way delay: 60.235 ms  
Loss rate: 0.56%

Run 4: Report of QUIC Cubic — Data Link



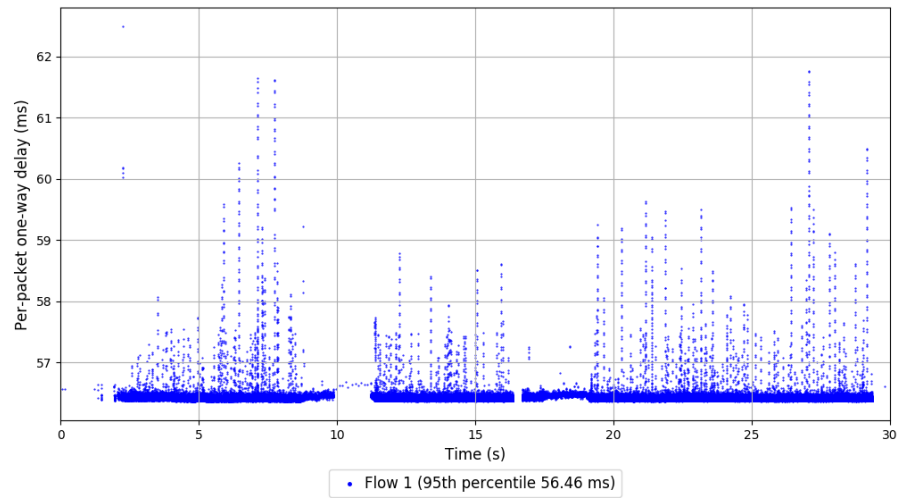
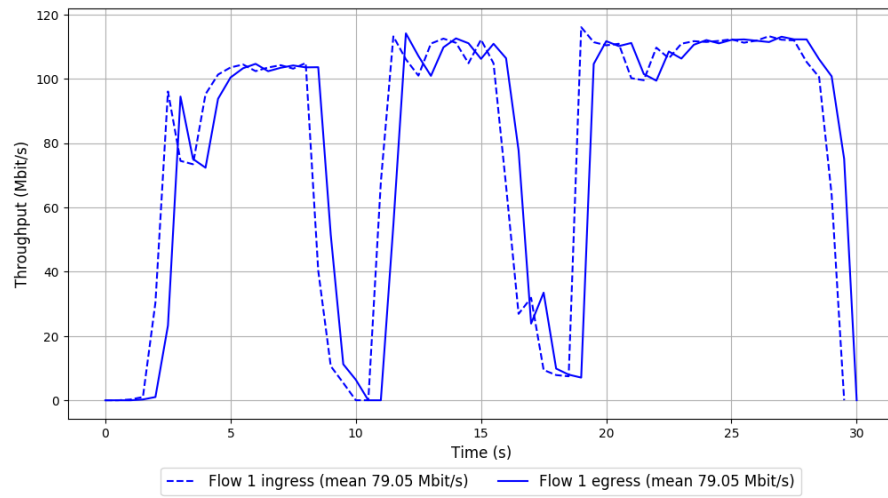


Run 5: Statistics of QUIC Cubic

Start at: 2019-09-19 01:21:20  
End at: 2019-09-19 01:21:50  
Local clock offset: -0.447 ms  
Remote clock offset: -0.146 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 79.05 Mbit/s  
95th percentile per-packet one-way delay: 56.464 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 79.05 Mbit/s  
95th percentile per-packet one-way delay: 56.464 ms  
Loss rate: 0.00%

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

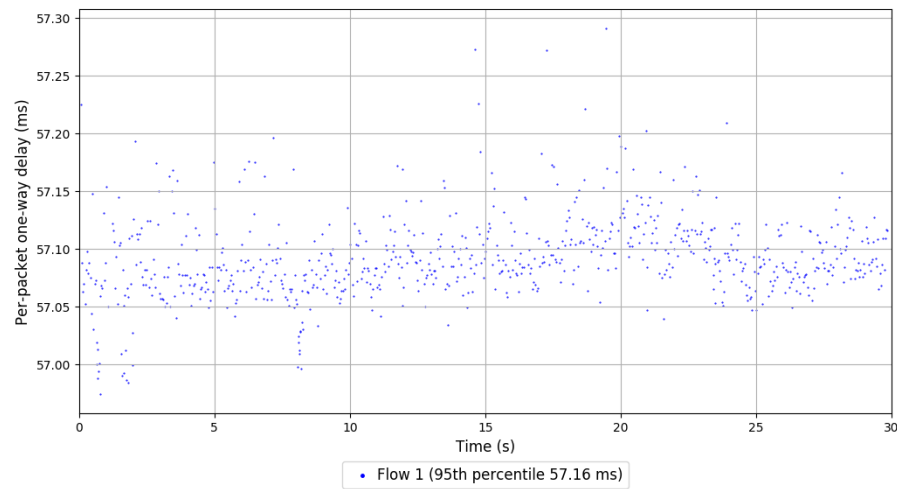
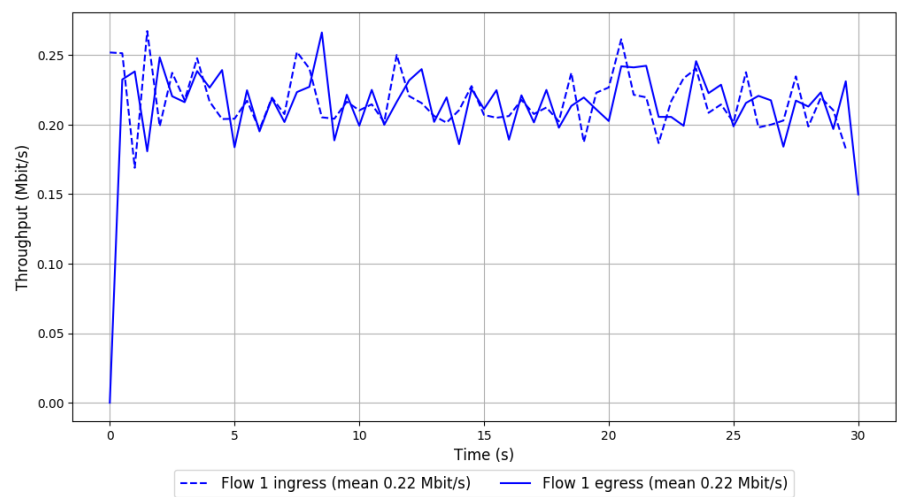


Run 1: Statistics of SCReAM

Start at: 2019-09-18 23:18:43  
End at: 2019-09-18 23:19:13  
Local clock offset: -0.095 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.159 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.159 ms  
Loss rate: 0.38%

Run 1: Report of SReAM — Data Link

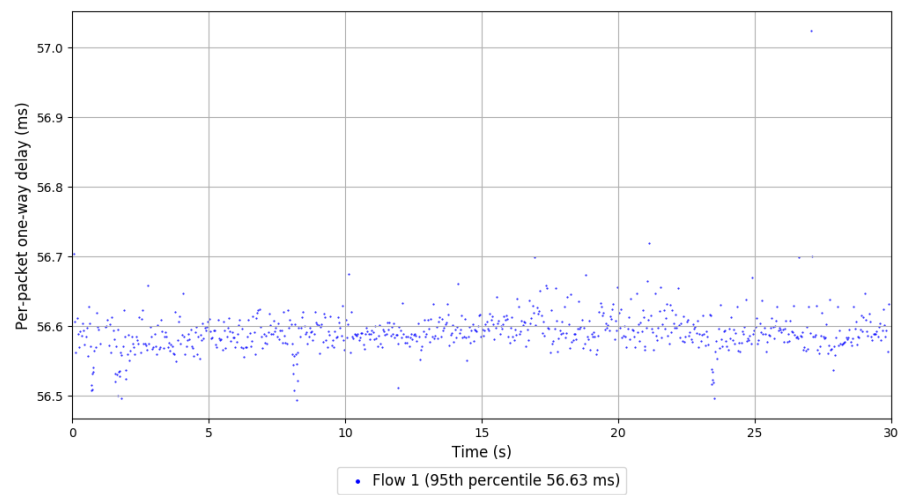
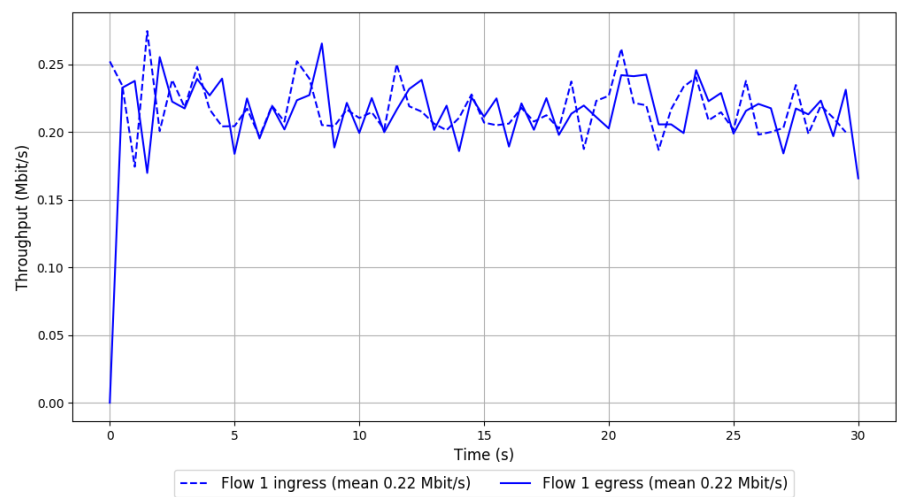


Run 2: Statistics of SCReAM

Start at: 2019-09-18 23:53:42  
End at: 2019-09-18 23:54:12  
Local clock offset: -0.471 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.631 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 56.631 ms  
Loss rate: 0.39%

Run 2: Report of SReAM — Data Link

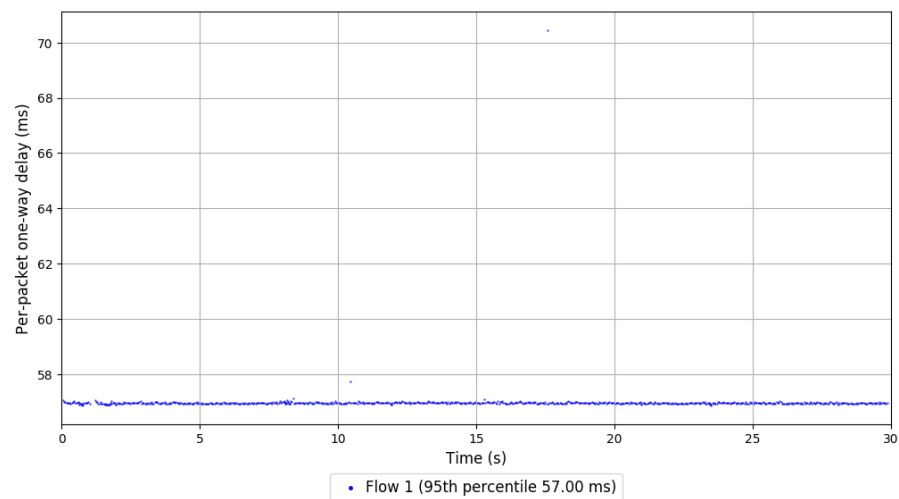
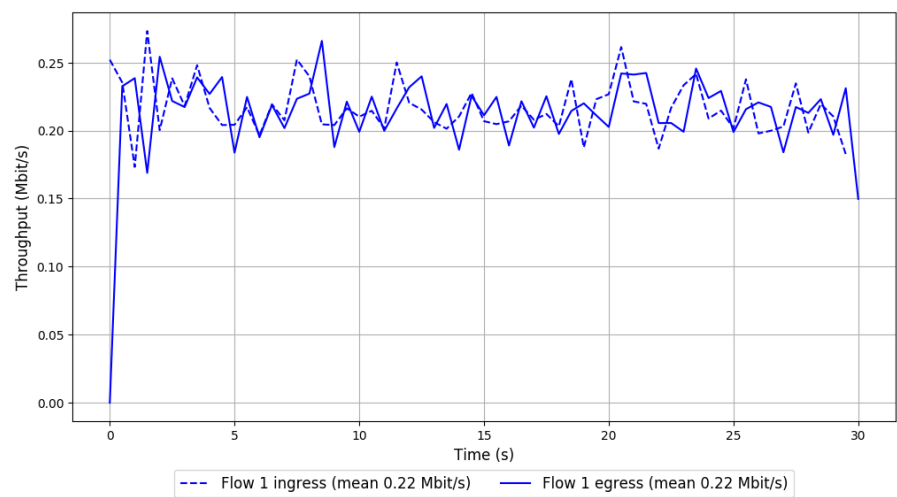


Run 3: Statistics of SCReAM

Start at: 2019-09-19 00:28:45  
End at: 2019-09-19 00:29:15  
Local clock offset: -0.079 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.004 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 57.004 ms  
Loss rate: 0.38%

Run 3: Report of SReAM — Data Link



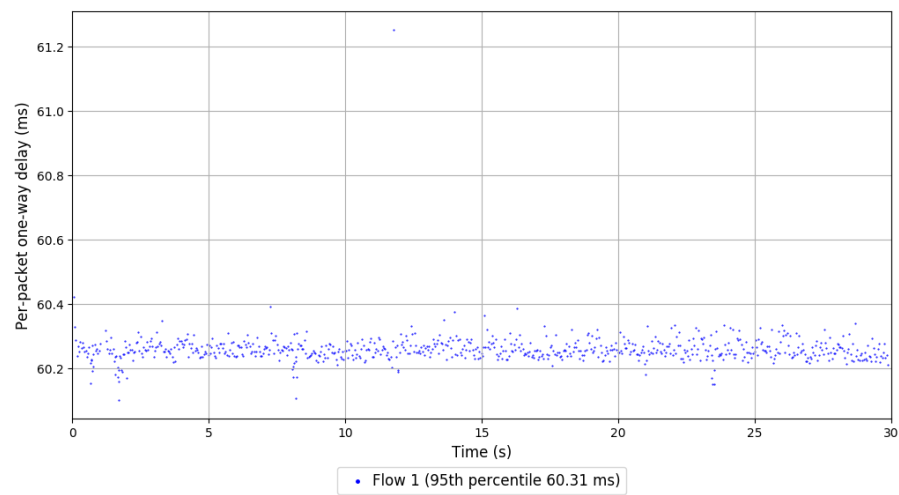
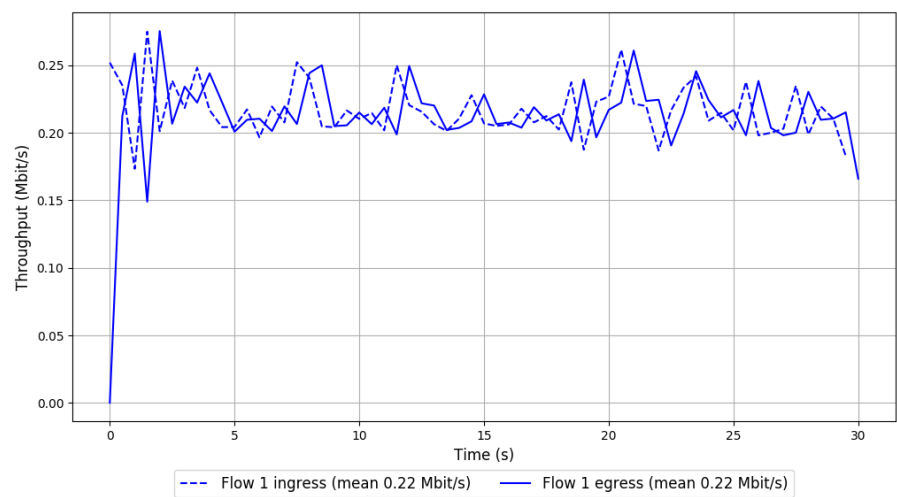


Run 4: Statistics of SCReAM

Start at: 2019-09-19 01:04:08  
End at: 2019-09-19 01:04:38  
Local clock offset: -0.054 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.311 ms  
Loss rate: 0.38%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.311 ms  
Loss rate: 0.38%

Run 4: Report of SReAM — Data Link

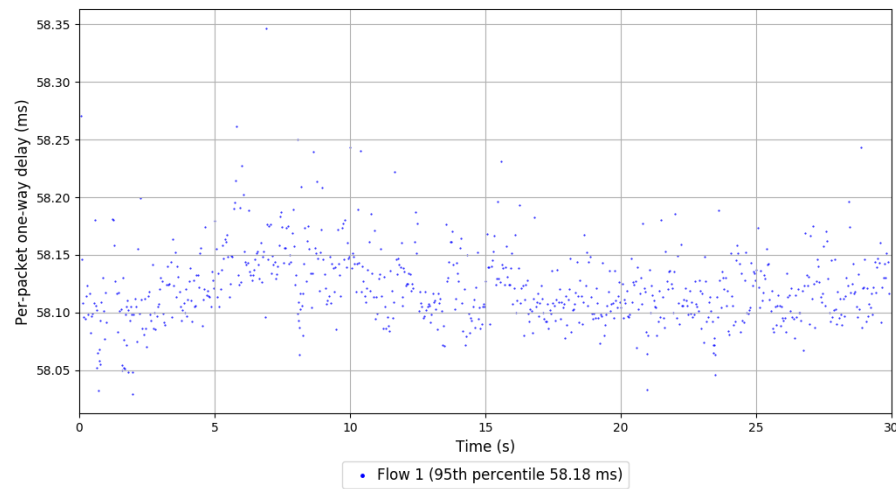
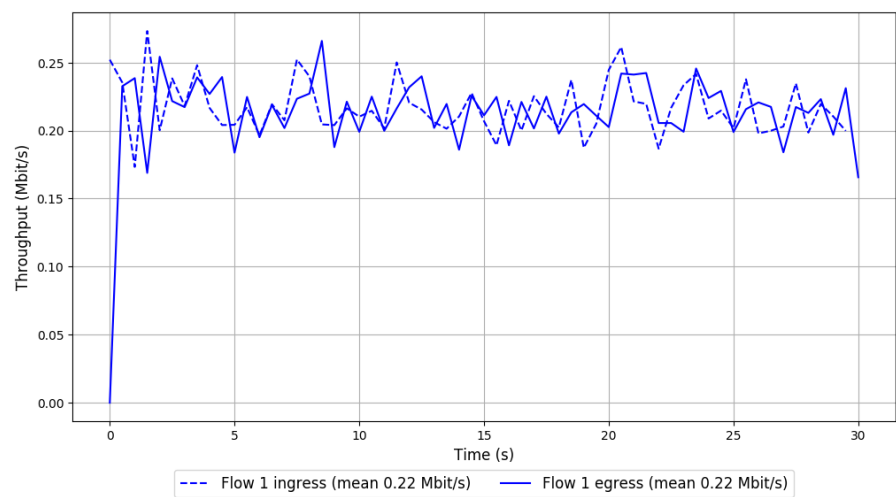


Run 5: Statistics of SReAM

Start at: 2019-09-19 01:39:20  
End at: 2019-09-19 01:39:50  
Local clock offset: 0.252 ms  
Remote clock offset: -0.371 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 58.179 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 58.179 ms  
Loss rate: 0.39%

Run 5: Report of SReAM — Data Link

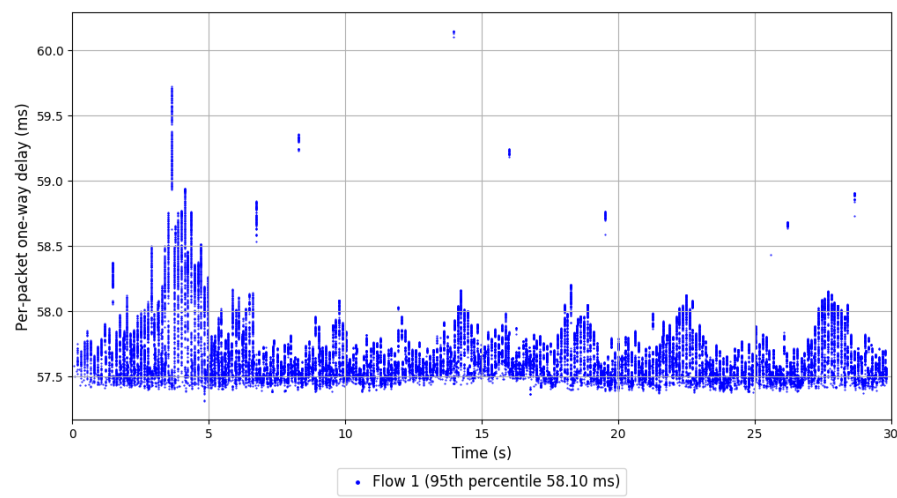
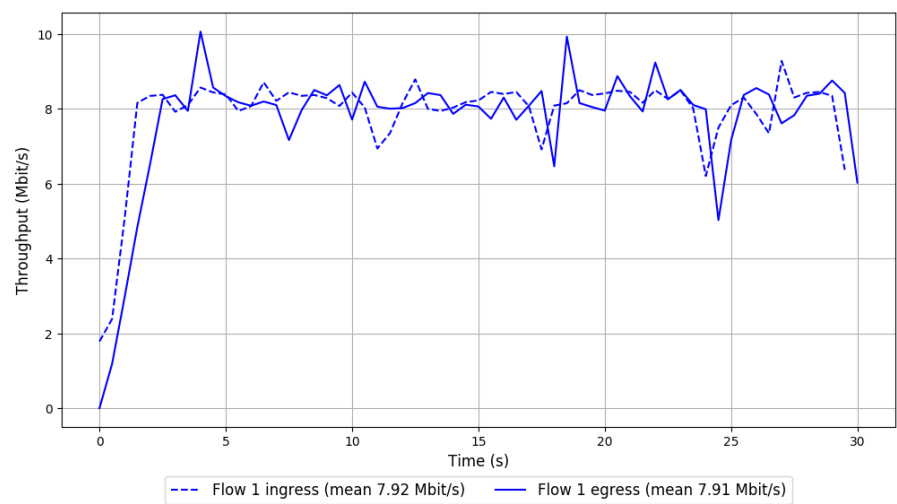


Run 1: Statistics of Sprout

Start at: 2019-09-18 23:21:29  
End at: 2019-09-18 23:21:59  
Local clock offset: -0.072 ms  
Remote clock offset: -0.543 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.91 Mbit/s  
95th percentile per-packet one-way delay: 58.097 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 7.91 Mbit/s  
95th percentile per-packet one-way delay: 58.097 ms  
Loss rate: 0.42%

Run 1: Report of Sprout — Data Link

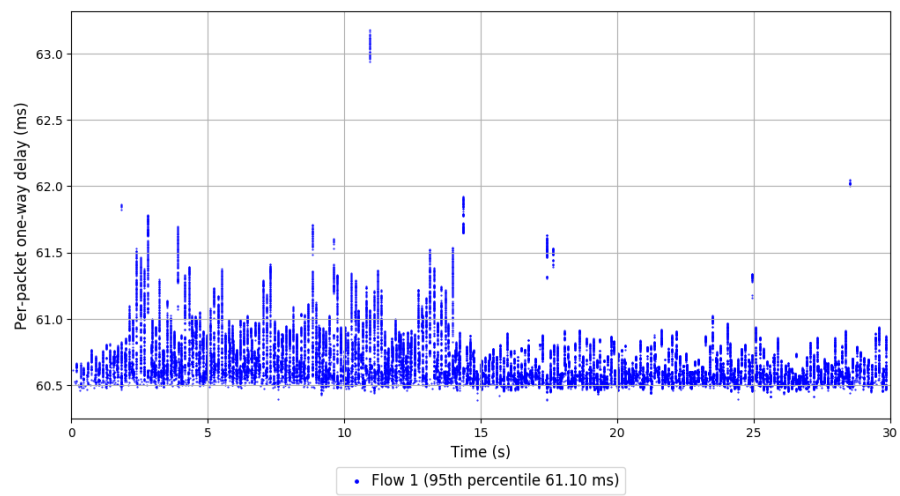
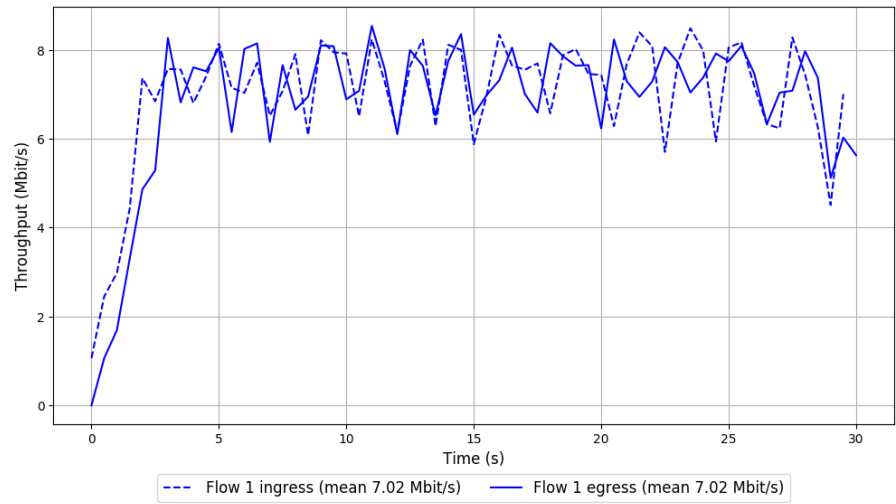


Run 2: Statistics of Sprout

Start at: 2019-09-18 23:56:27  
End at: 2019-09-18 23:56:57  
Local clock offset: -0.217 ms  
Remote clock offset: -0.445 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.02 Mbit/s  
95th percentile per-packet one-way delay: 61.104 ms  
Loss rate: 0.33%  
-- Flow 1:  
Average throughput: 7.02 Mbit/s  
95th percentile per-packet one-way delay: 61.104 ms  
Loss rate: 0.33%

## Run 2: Report of Sprout — Data Link



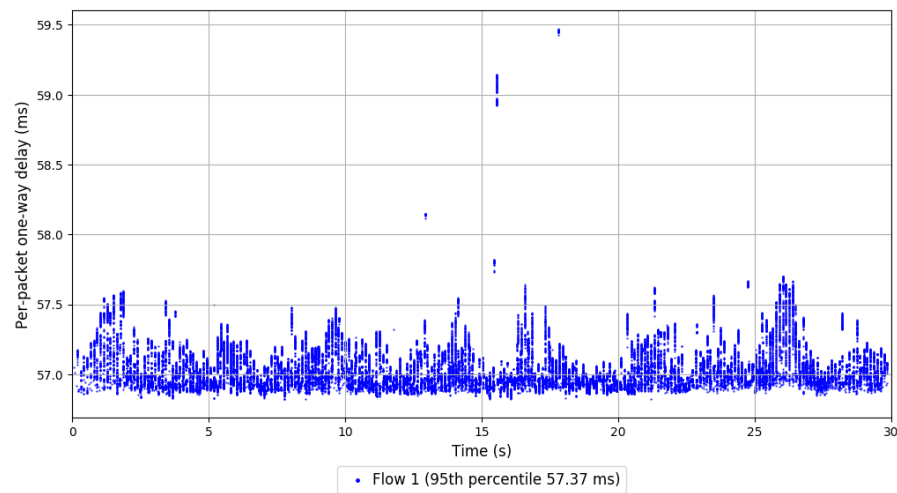
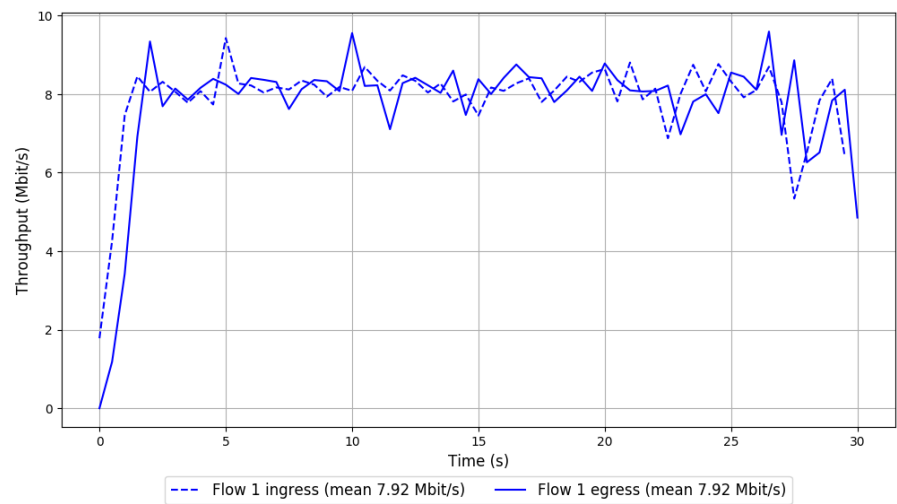


Run 3: Statistics of Sprout

Start at: 2019-09-19 00:31:31  
End at: 2019-09-19 00:32:01  
Local clock offset: -0.082 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-09-19 03:47:07  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 57.365 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 7.92 Mbit/s  
95th percentile per-packet one-way delay: 57.365 ms  
Loss rate: 0.39%

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-09-19 01:06:52

End at: 2019-09-19 01:07:22

Local clock offset: 0.368 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-09-19 03:47:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 57.768 ms

Loss rate: 0.41%

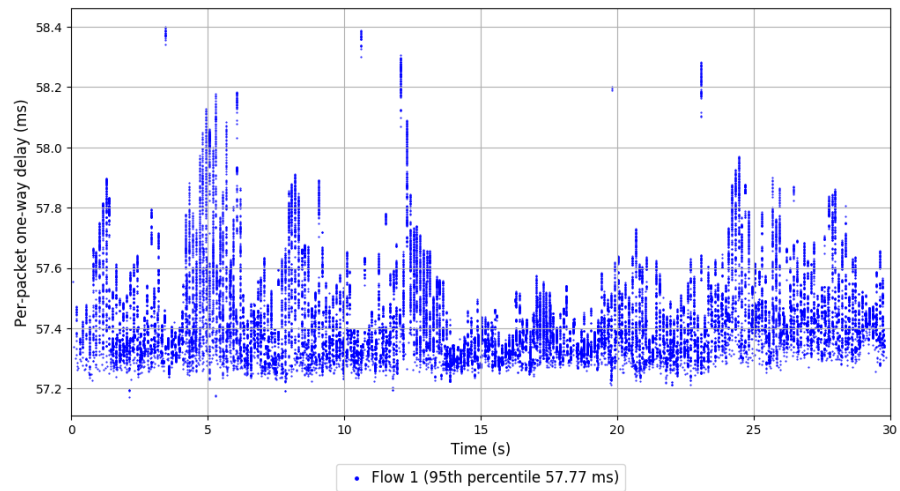
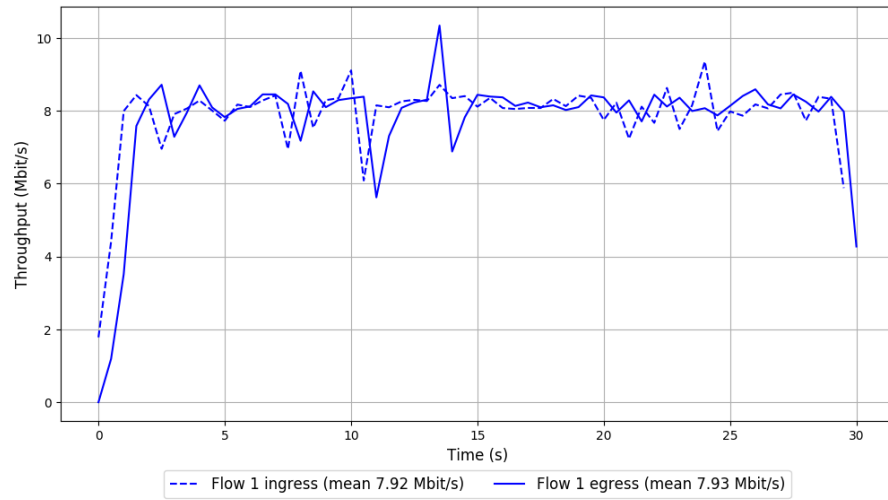
-- Flow 1:

Average throughput: 7.93 Mbit/s

95th percentile per-packet one-way delay: 57.768 ms

Loss rate: 0.41%

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



Run 5: Statistics of Sprout

Start at: 2019-09-19 01:42:05

End at: 2019-09-19 01:42:35

Local clock offset: -0.092 ms

Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-09-19 03:47:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 57.273 ms

Loss rate: 0.42%

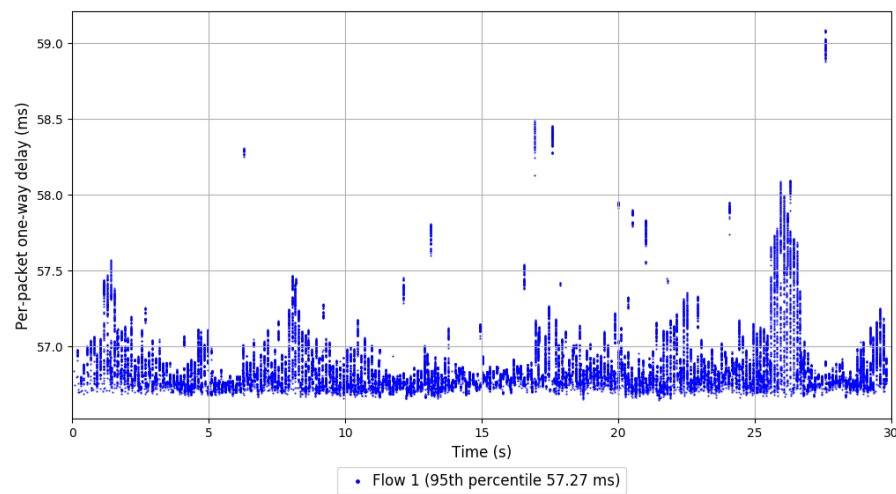
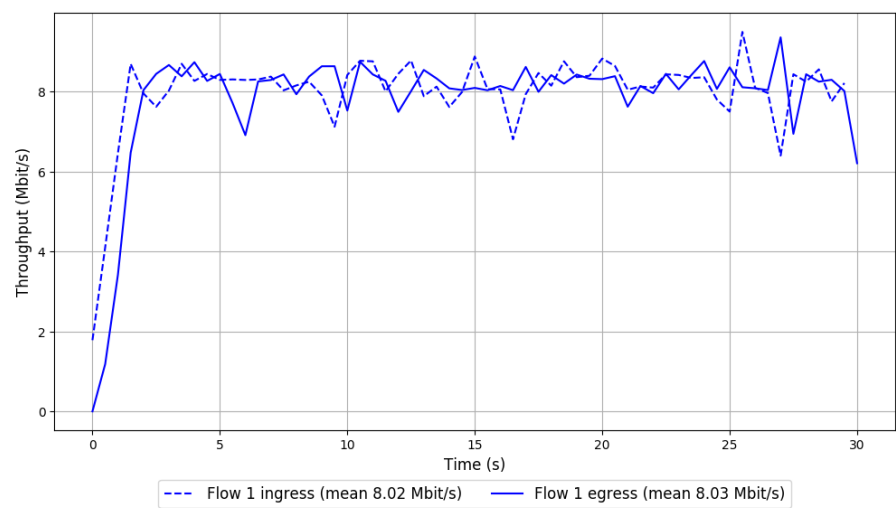
-- Flow 1:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 57.273 ms

Loss rate: 0.42%

Run 5: Report of Sprout — Data Link

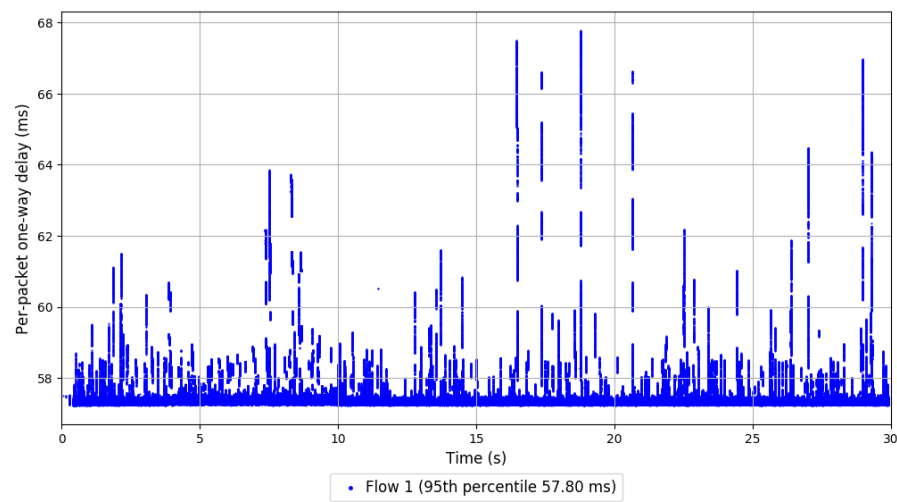
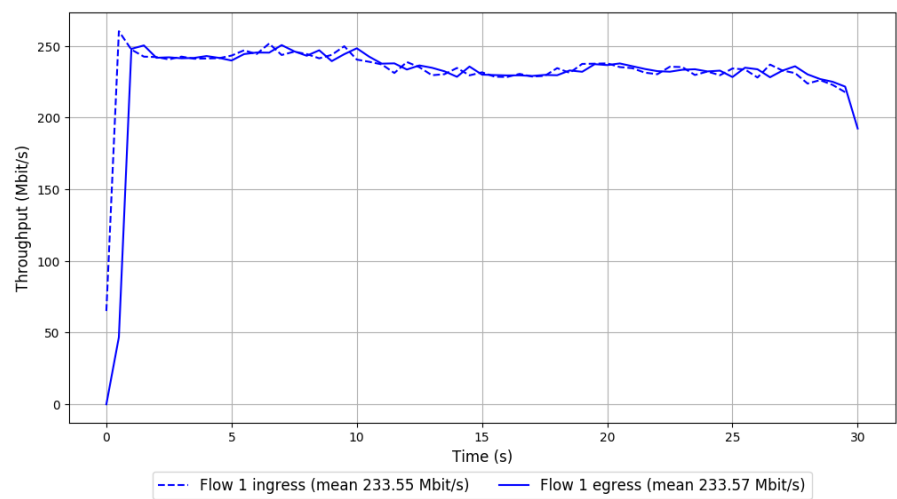


Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 23:22:37  
End at: 2019-09-18 23:23:07  
Local clock offset: -0.092 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-09-19 03:51:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 233.57 Mbit/s  
95th percentile per-packet one-way delay: 57.799 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 233.57 Mbit/s  
95th percentile per-packet one-way delay: 57.799 ms  
Loss rate: 0.37%

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



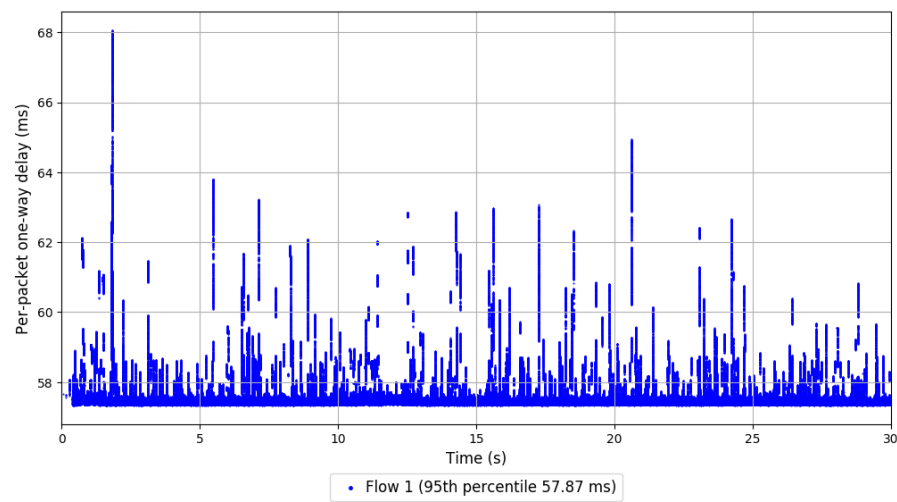
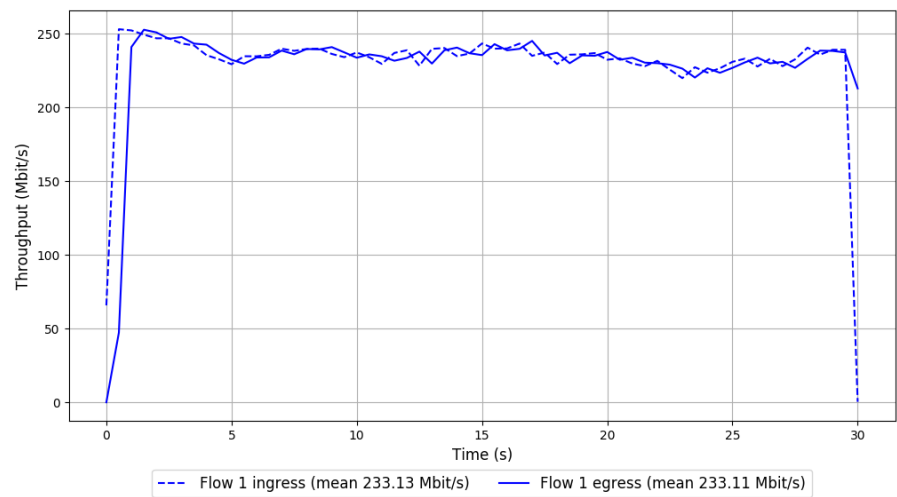


Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 23:57:36  
End at: 2019-09-18 23:58:06  
Local clock offset: -0.064 ms  
Remote clock offset: -0.669 ms

# Below is generated by plot.py at 2019-09-19 03:51:02  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 233.11 Mbit/s  
95th percentile per-packet one-way delay: 57.872 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 233.11 Mbit/s  
95th percentile per-packet one-way delay: 57.872 ms  
Loss rate: 0.39%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-19 00:32:40

End at: 2019-09-19 00:33:10

Local clock offset: 0.187 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-09-19 03:51:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.20 Mbit/s

95th percentile per-packet one-way delay: 57.841 ms

Loss rate: 0.36%

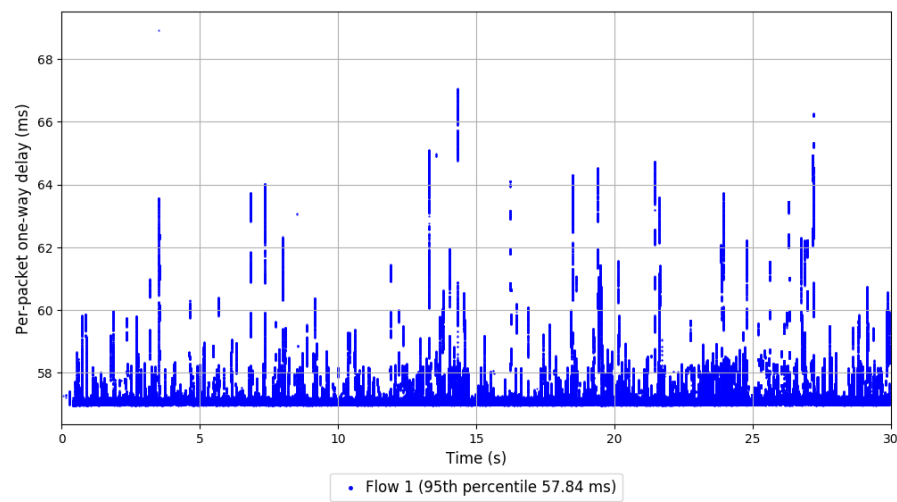
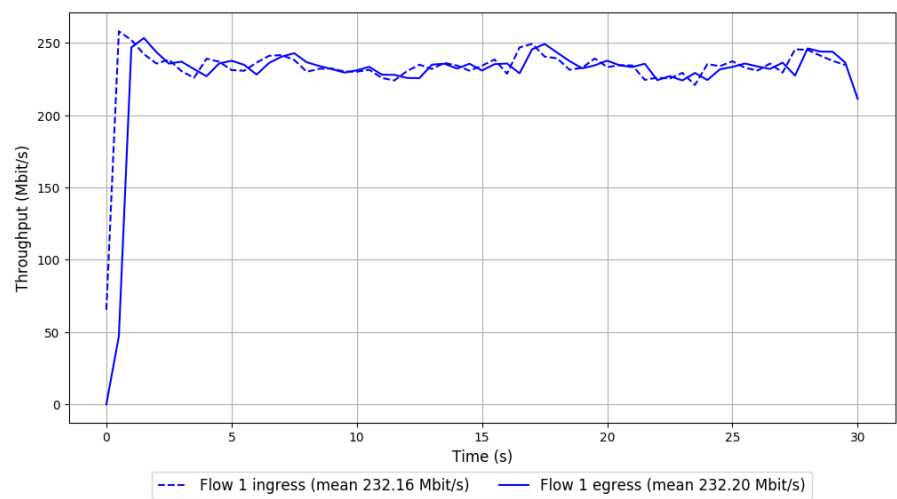
-- Flow 1:

Average throughput: 232.20 Mbit/s

95th percentile per-packet one-way delay: 57.841 ms

Loss rate: 0.36%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-09-19 01:08:01

End at: 2019-09-19 01:08:31

Local clock offset: -0.472 ms

Remote clock offset: -0.84 ms

# Below is generated by plot.py at 2019-09-19 03:51:07

# Datalink statistics

-- Total of 1 flow:

Average throughput: 232.19 Mbit/s

95th percentile per-packet one-way delay: 58.109 ms

Loss rate: 0.38%

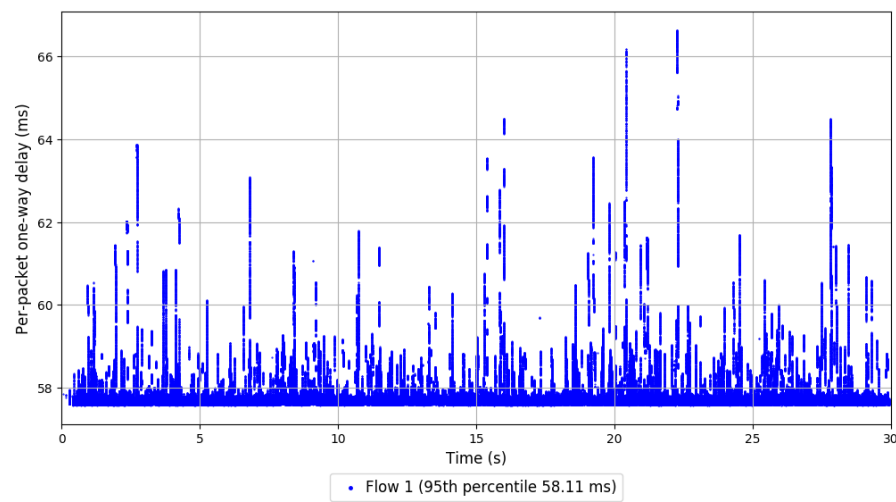
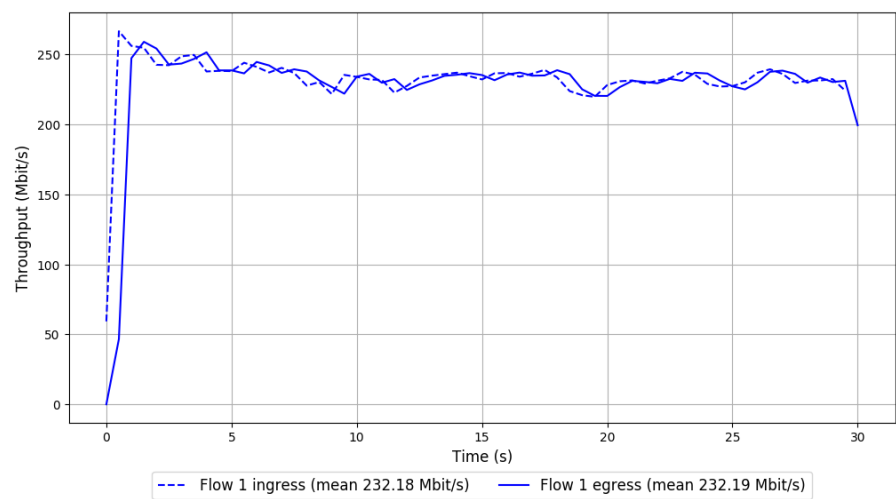
-- Flow 1:

Average throughput: 232.19 Mbit/s

95th percentile per-packet one-way delay: 58.109 ms

Loss rate: 0.38%

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

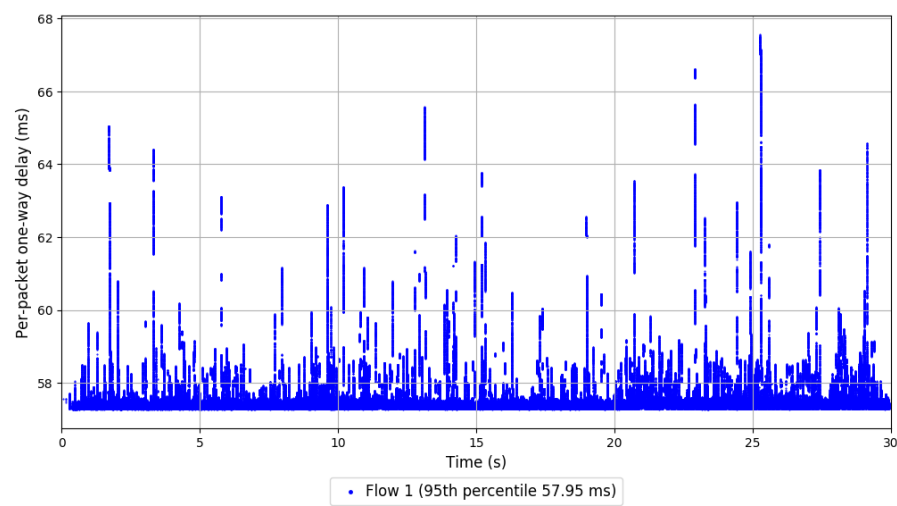
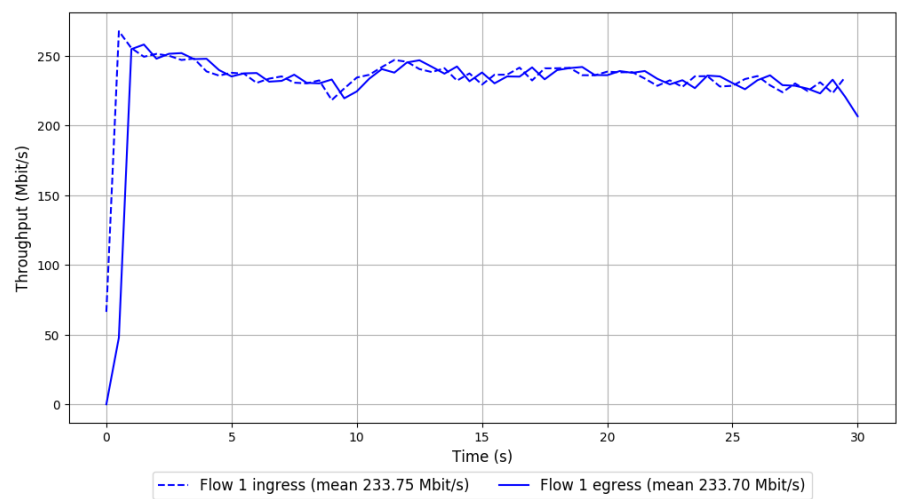


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-19 01:43:14  
End at: 2019-09-19 01:43:44  
Local clock offset: -0.113 ms  
Remote clock offset: -0.613 ms

# Below is generated by plot.py at 2019-09-19 03:51:17  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 233.70 Mbit/s  
95th percentile per-packet one-way delay: 57.945 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 233.70 Mbit/s  
95th percentile per-packet one-way delay: 57.945 ms  
Loss rate: 0.40%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 23:02:03

End at: 2019-09-18 23:02:33

Local clock offset: 0.186 ms

Remote clock offset: -0.366 ms

# Below is generated by plot.py at 2019-09-19 03:51:17

# Datalink statistics

-- Total of 1 flow:

Average throughput: 263.15 Mbit/s

95th percentile per-packet one-way delay: 62.969 ms

Loss rate: 0.37%

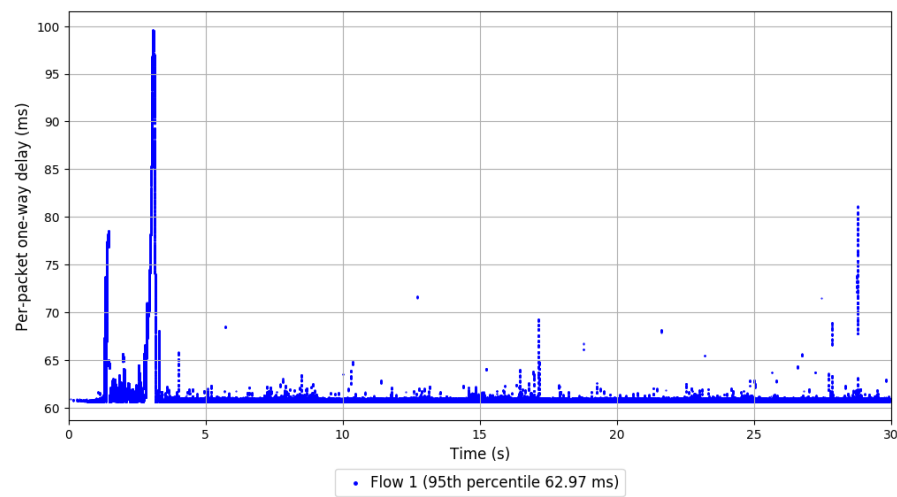
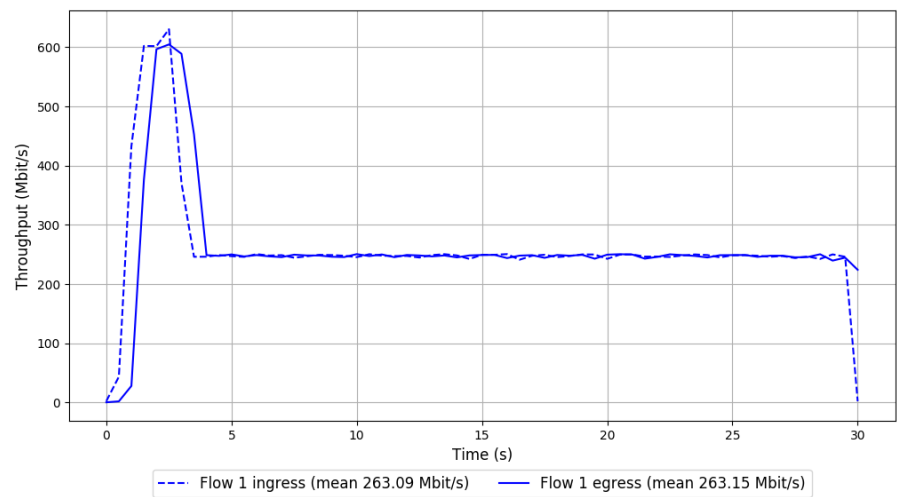
-- Flow 1:

Average throughput: 263.15 Mbit/s

95th percentile per-packet one-way delay: 62.969 ms

Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 23:36:47

End at: 2019-09-18 23:37:17

Local clock offset: -0.349 ms

Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2019-09-19 03:52:02

# Datalink statistics

-- Total of 1 flow:

Average throughput: 402.69 Mbit/s

95th percentile per-packet one-way delay: 58.563 ms

Loss rate: 0.39%

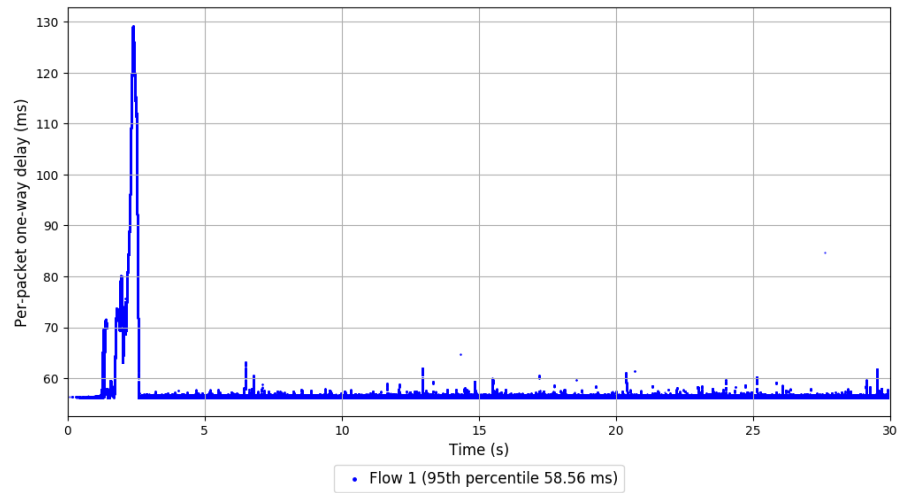
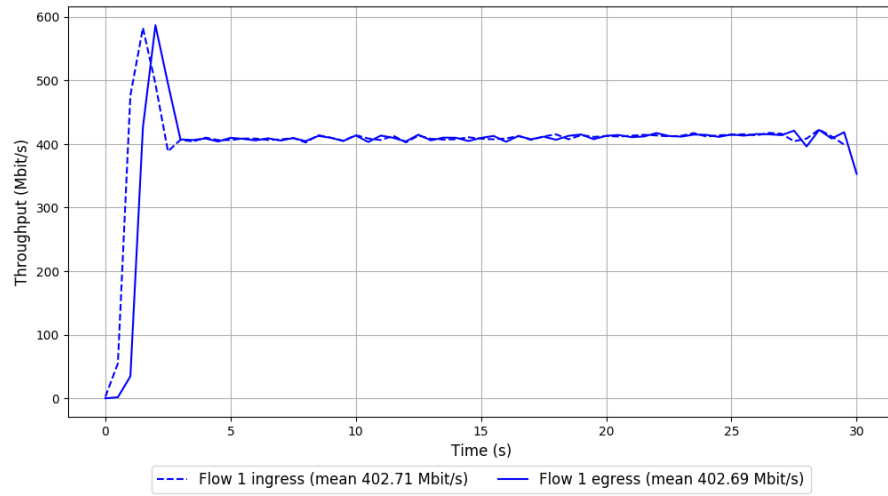
-- Flow 1:

Average throughput: 402.69 Mbit/s

95th percentile per-packet one-way delay: 58.563 ms

Loss rate: 0.39%

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

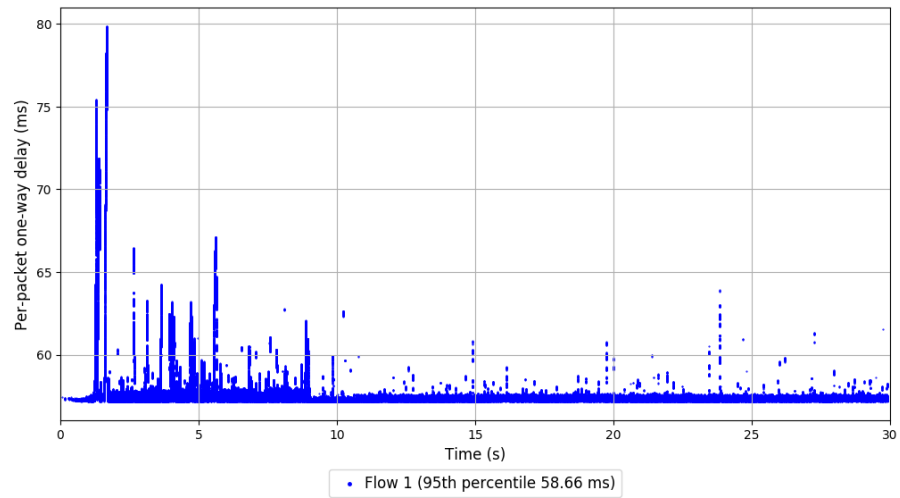
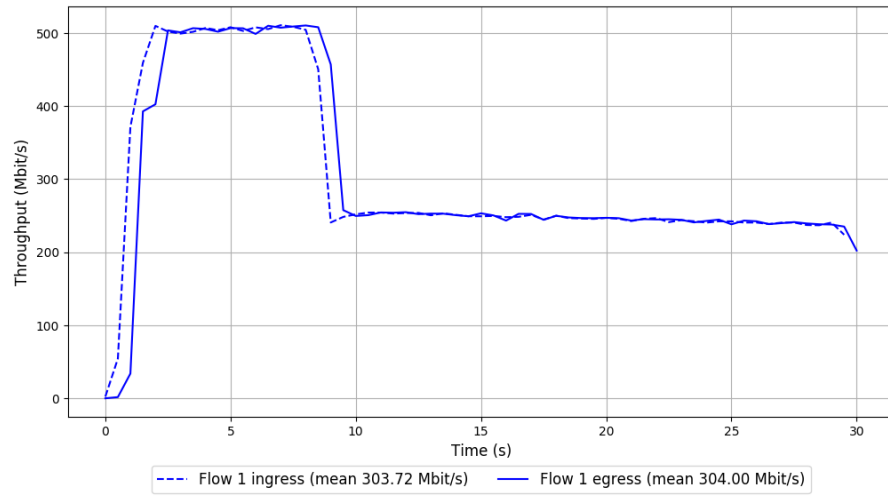


Run 3: Statistics of TCP Vegas

Start at: 2019-09-19 00:12:10  
End at: 2019-09-19 00:12:40  
Local clock offset: 0.323 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-09-19 03:53:14  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 304.00 Mbit/s  
95th percentile per-packet one-way delay: 58.664 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 304.00 Mbit/s  
95th percentile per-packet one-way delay: 58.664 ms  
Loss rate: 0.29%

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

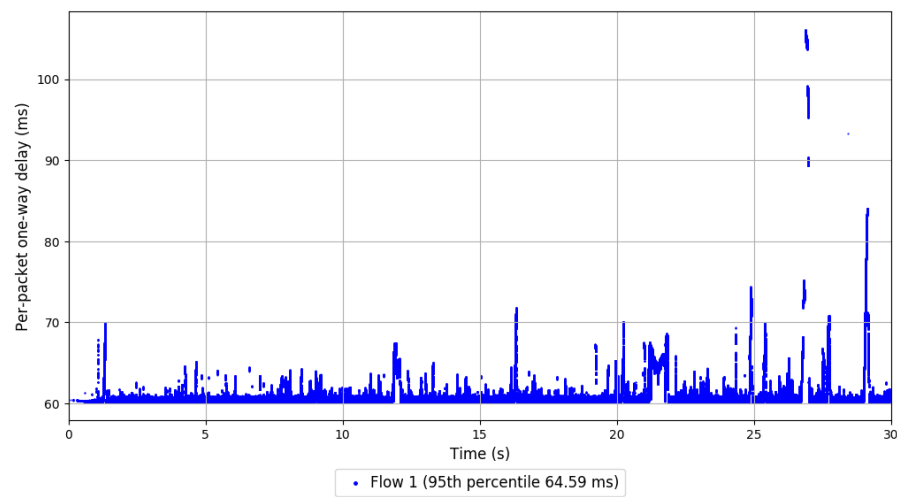
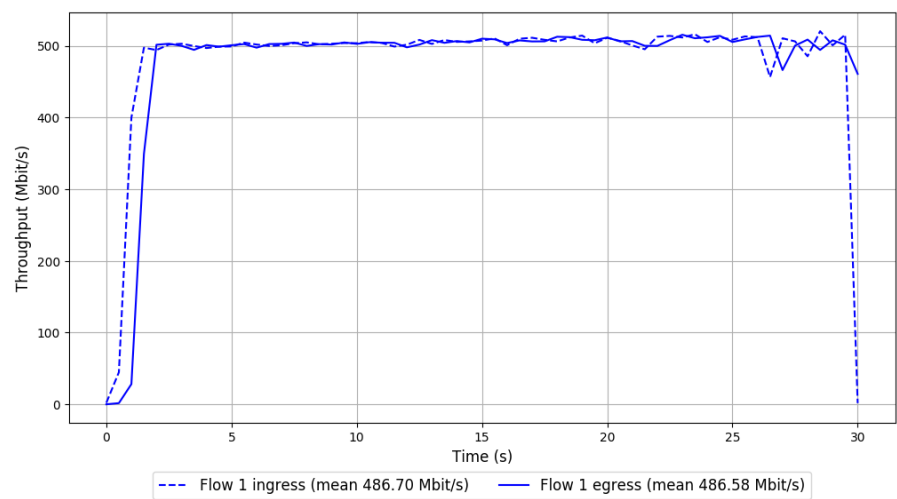


Run 4: Statistics of TCP Vegas

Start at: 2019-09-19 00:47:12  
End at: 2019-09-19 00:47:42  
Local clock offset: -0.096 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-09-19 03:57:09  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 486.58 Mbit/s  
95th percentile per-packet one-way delay: 64.595 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 486.58 Mbit/s  
95th percentile per-packet one-way delay: 64.595 ms  
Loss rate: 0.42%

Run 4: Report of TCP Vegas — Data Link



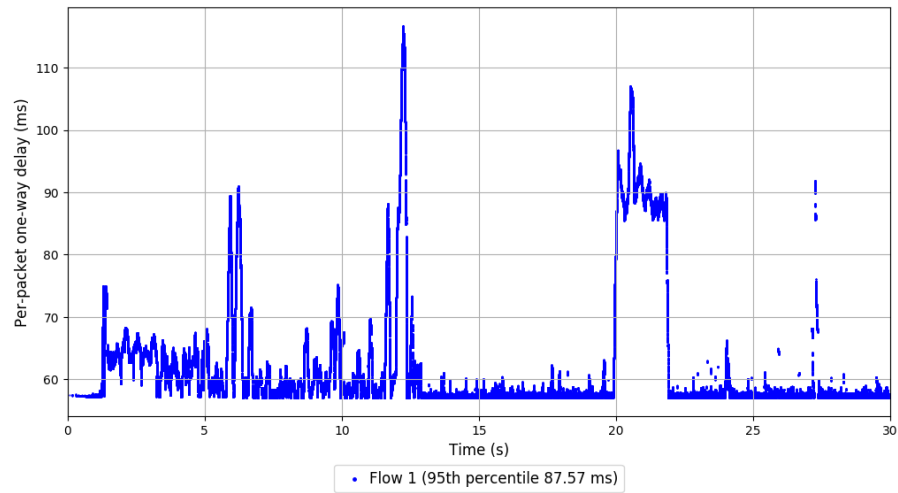
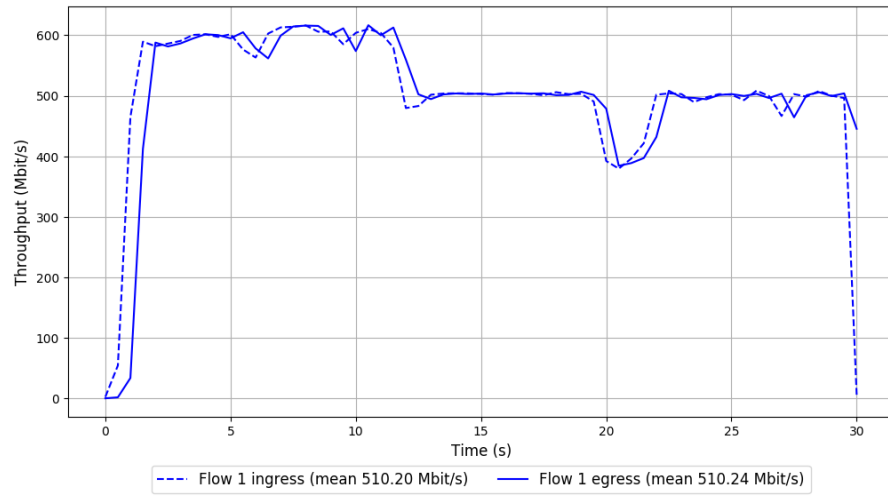


Run 5: Statistics of TCP Vegas

Start at: 2019-09-19 01:22:32  
End at: 2019-09-19 01:23:02  
Local clock offset: -0.08 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 510.24 Mbit/s  
95th percentile per-packet one-way delay: 87.570 ms  
Loss rate: 0.37%  
-- Flow 1:  
Average throughput: 510.24 Mbit/s  
95th percentile per-packet one-way delay: 87.570 ms  
Loss rate: 0.37%

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



Run 1: Statistics of Verus

Start at: 2019-09-18 23:11:01

End at: 2019-09-18 23:11:31

Local clock offset: -0.446 ms

Remote clock offset: 0.072 ms

# Below is generated by plot.py at 2019-09-19 03:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 93.769 ms

Loss rate: 0.00%

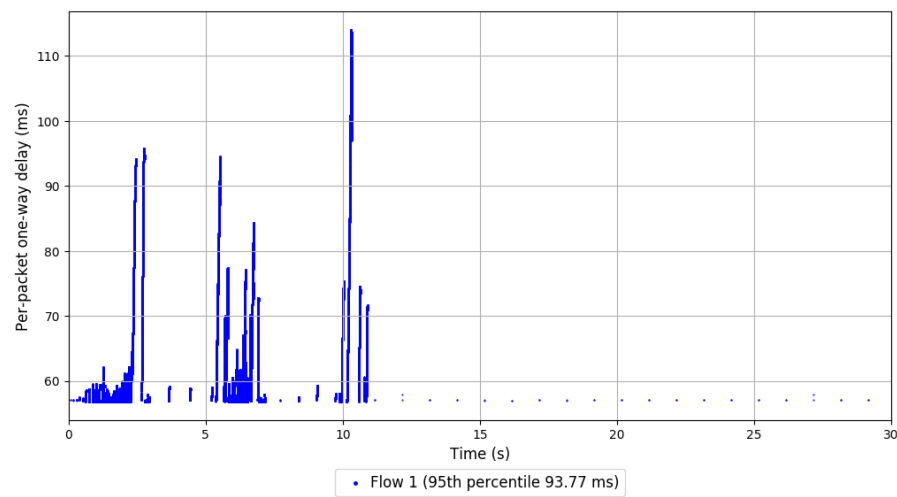
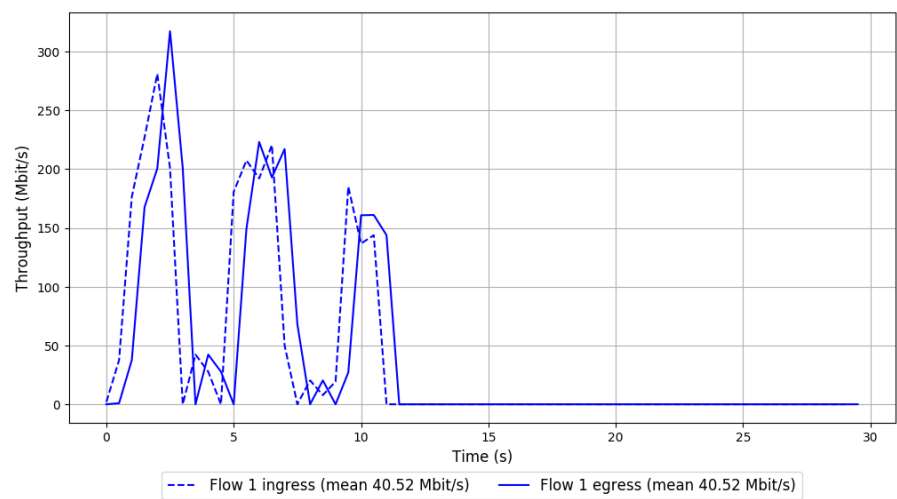
-- Flow 1:

Average throughput: 40.52 Mbit/s

95th percentile per-packet one-way delay: 93.769 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

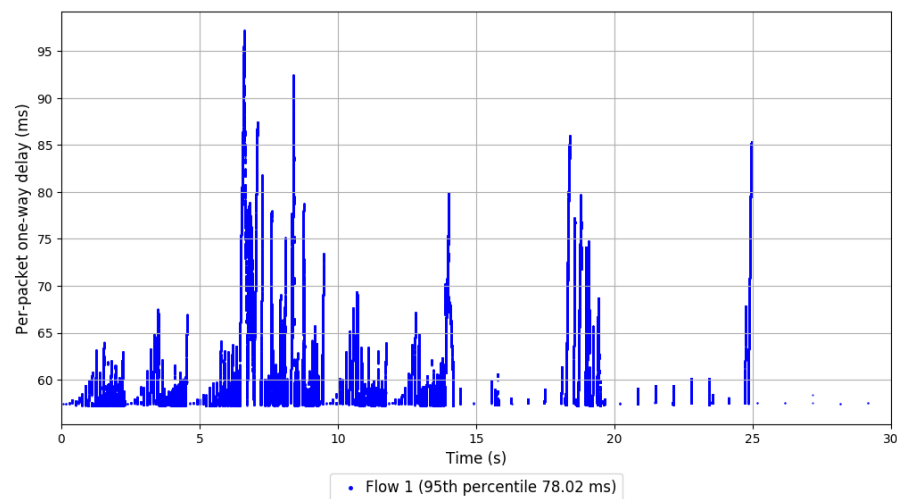
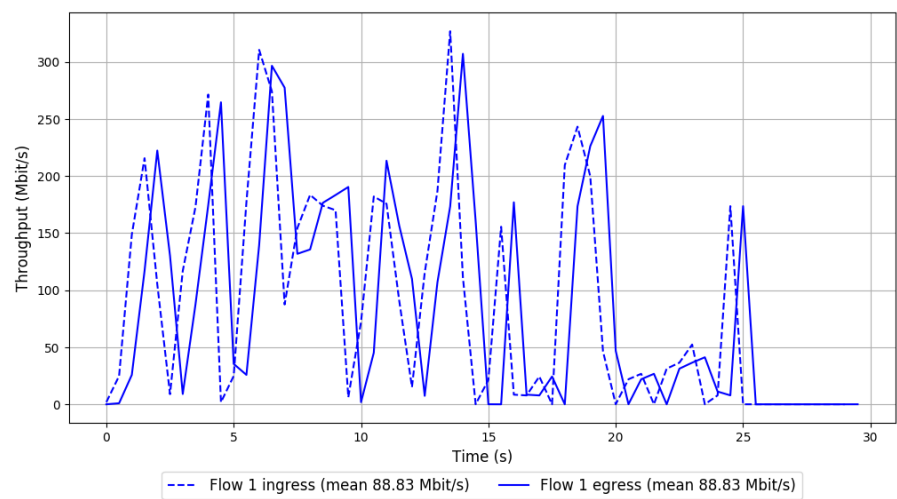


Run 2: Statistics of Verus

Start at: 2019-09-18 23:45:54  
End at: 2019-09-18 23:46:24  
Local clock offset: -0.069 ms  
Remote clock offset: -0.445 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 88.83 Mbit/s  
95th percentile per-packet one-way delay: 78.023 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 88.83 Mbit/s  
95th percentile per-packet one-way delay: 78.023 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

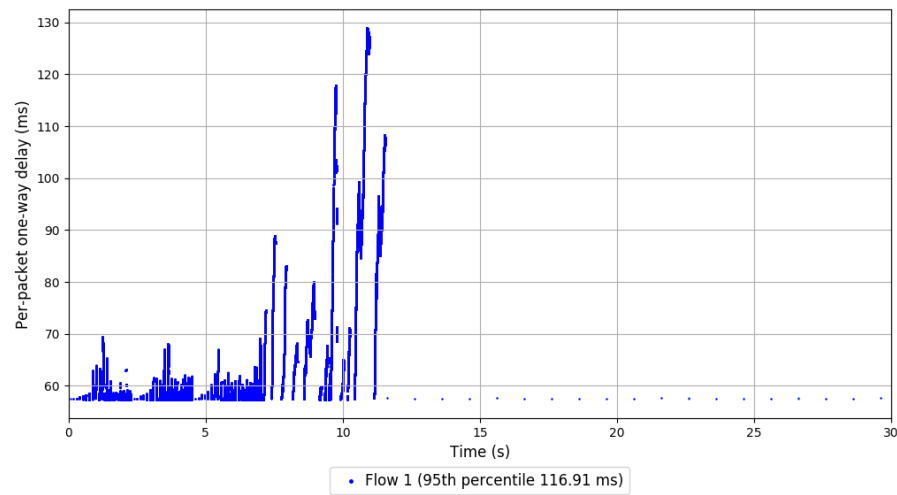
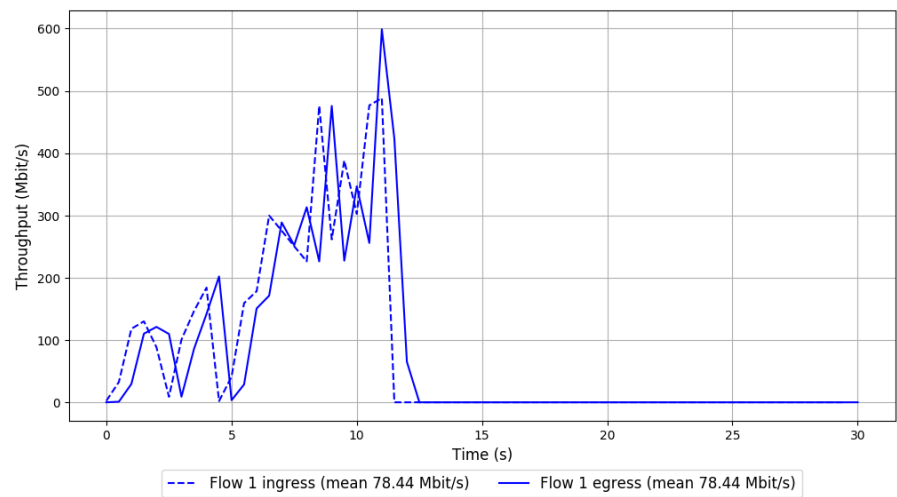


Run 3: Statistics of Verus

Start at: 2019-09-19 00:20:56  
End at: 2019-09-19 00:21:26  
Local clock offset: -0.078 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 78.44 Mbit/s  
95th percentile per-packet one-way delay: 116.909 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 78.44 Mbit/s  
95th percentile per-packet one-way delay: 116.909 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-09-19 00:56:25

End at: 2019-09-19 00:56:55

Local clock offset: -0.122 ms

Remote clock offset: 0.542 ms

# Below is generated by plot.py at 2019-09-19 03:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 45.80 Mbit/s

95th percentile per-packet one-way delay: 79.186 ms

Loss rate: 0.00%

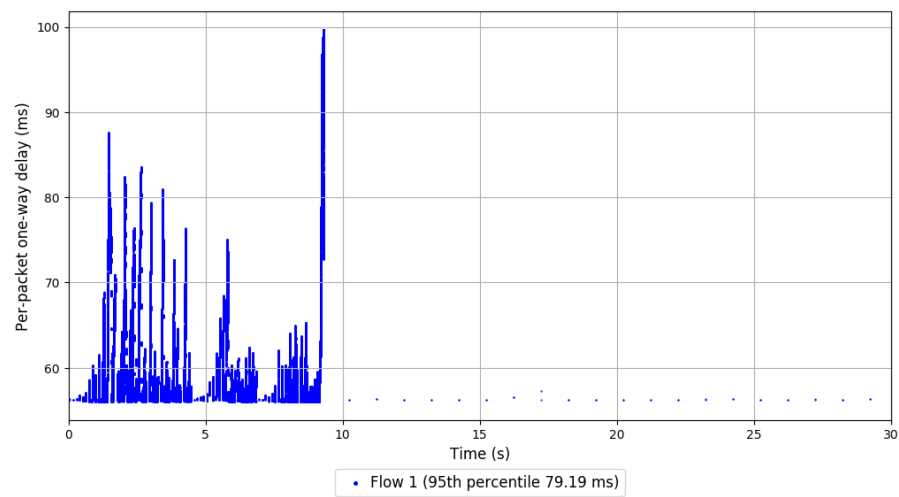
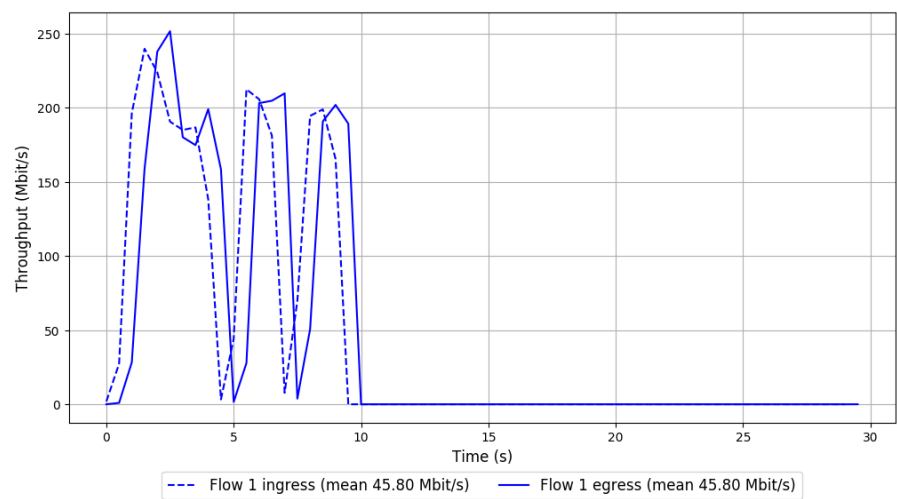
-- Flow 1:

Average throughput: 45.80 Mbit/s

95th percentile per-packet one-way delay: 79.186 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link

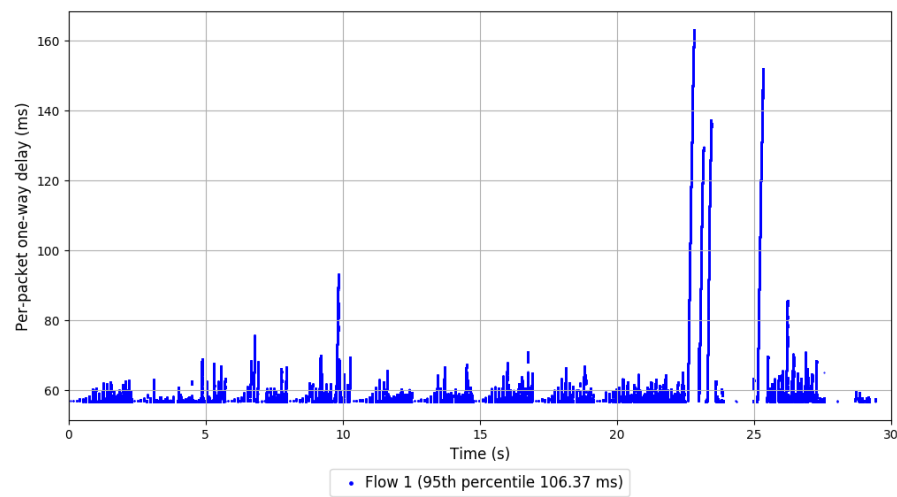
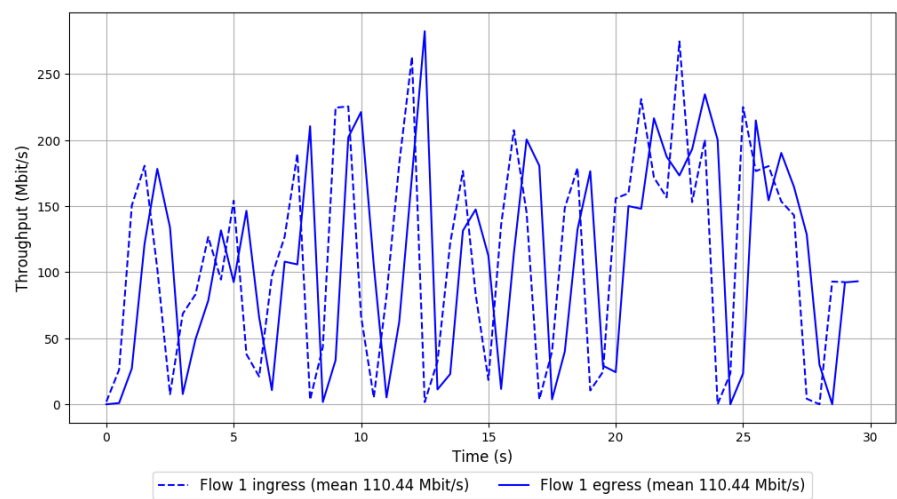


Run 5: Statistics of Verus

Start at: 2019-09-19 01:31:32  
End at: 2019-09-19 01:32:02  
Local clock offset: -0.118 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 110.44 Mbit/s  
95th percentile per-packet one-way delay: 106.367 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 110.44 Mbit/s  
95th percentile per-packet one-way delay: 106.367 ms  
Loss rate: 0.00%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 23:03:24

End at: 2019-09-18 23:03:54

Local clock offset: -0.412 ms

Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-09-19 03:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 381.13 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.32%

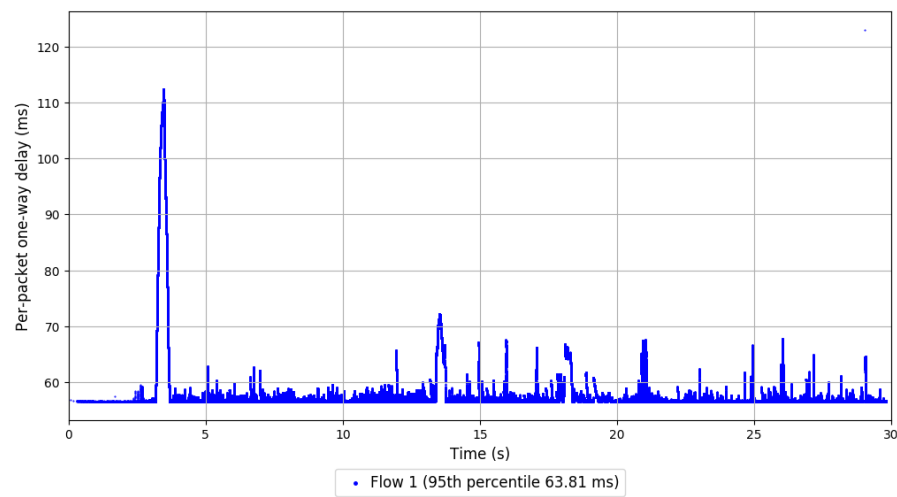
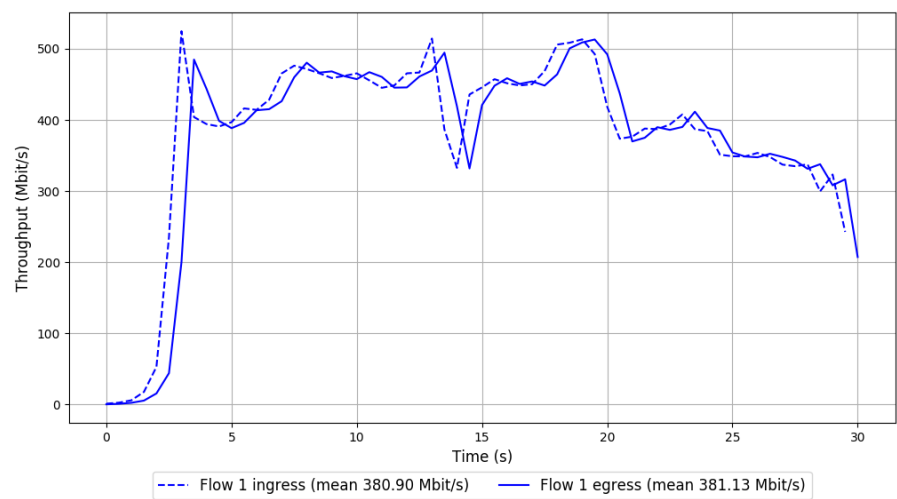
-- Flow 1:

Average throughput: 381.13 Mbit/s

95th percentile per-packet one-way delay: 63.809 ms

Loss rate: 0.32%

Run 1: Report of PCC-Vivace — Data Link



Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 23:38:14

End at: 2019-09-18 23:38:44

Local clock offset: -0.117 ms

Remote clock offset: 0.105 ms

# Below is generated by plot.py at 2019-09-19 03:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 390.22 Mbit/s

95th percentile per-packet one-way delay: 60.918 ms

Loss rate: 0.40%

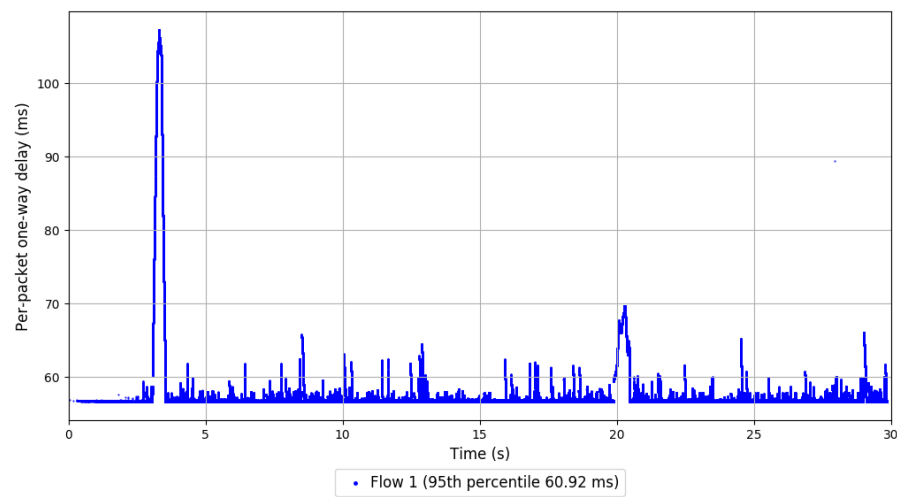
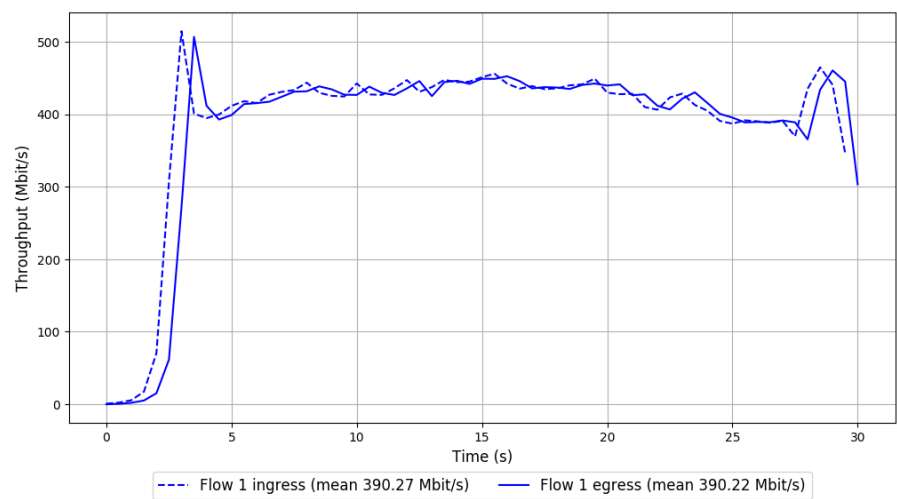
-- Flow 1:

Average throughput: 390.22 Mbit/s

95th percentile per-packet one-way delay: 60.918 ms

Loss rate: 0.40%

Run 2: Report of PCC-Vivace — Data Link



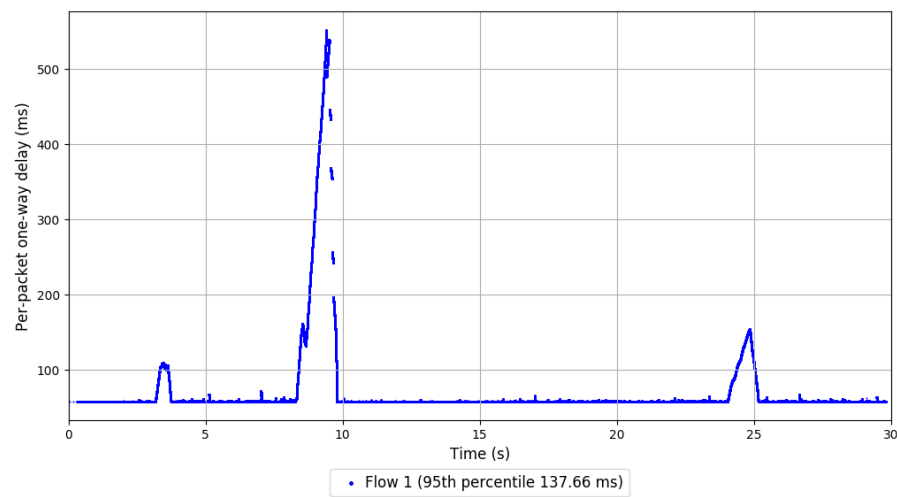
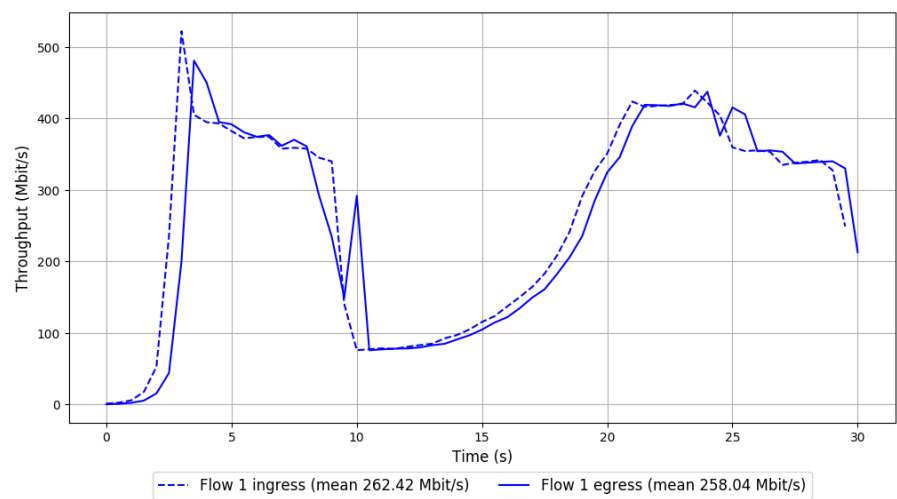


Run 3: Statistics of PCC-Vivace

Start at: 2019-09-19 00:13:33  
End at: 2019-09-19 00:14:03  
Local clock offset: -0.315 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 258.04 Mbit/s  
95th percentile per-packet one-way delay: 137.665 ms  
Loss rate: 2.05%  
-- Flow 1:  
Average throughput: 258.04 Mbit/s  
95th percentile per-packet one-way delay: 137.665 ms  
Loss rate: 2.05%

Run 3: Report of PCC-Vivace — Data Link

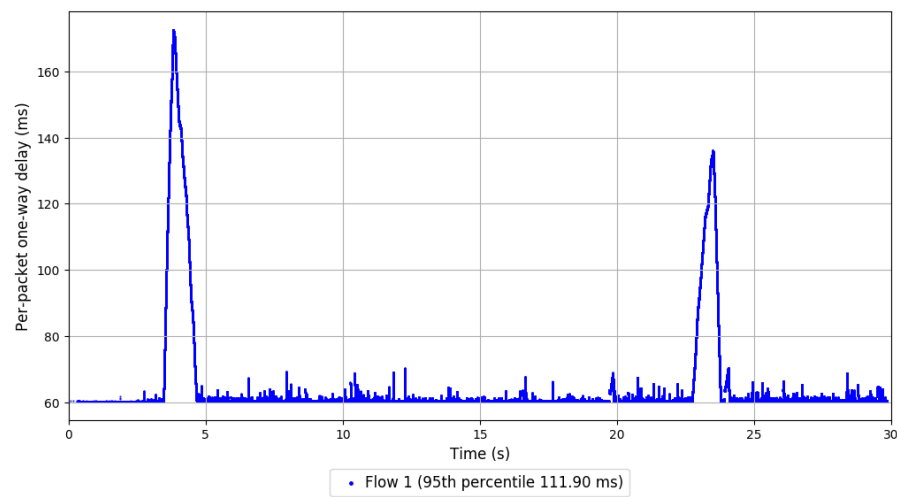
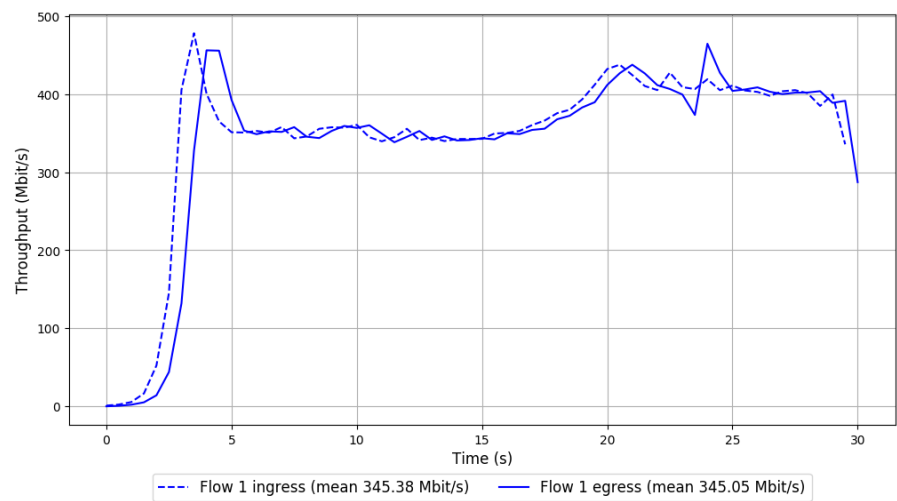


Run 4: Statistics of PCC-Vivace

Start at: 2019-09-19 00:48:43  
End at: 2019-09-19 00:49:13  
Local clock offset: -0.001 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 345.05 Mbit/s  
95th percentile per-packet one-way delay: 111.899 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 345.05 Mbit/s  
95th percentile per-packet one-way delay: 111.899 ms  
Loss rate: 0.49%

Run 4: Report of PCC-Vivace — Data Link

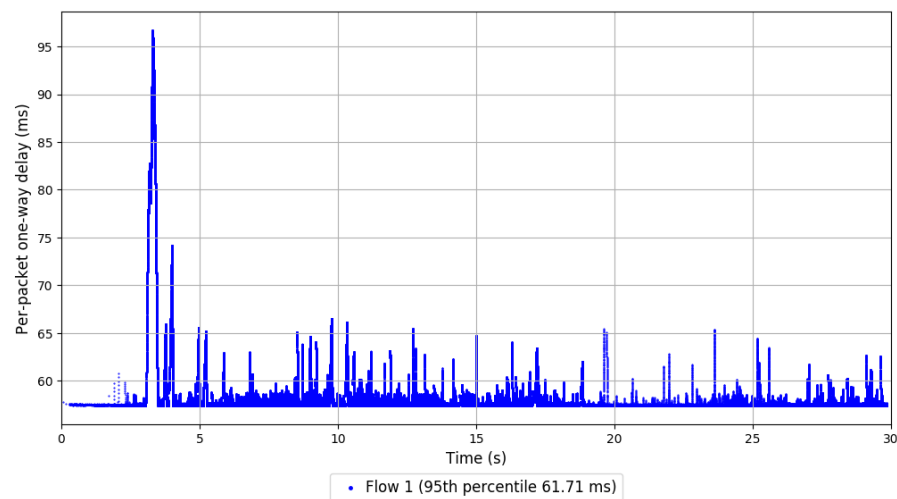
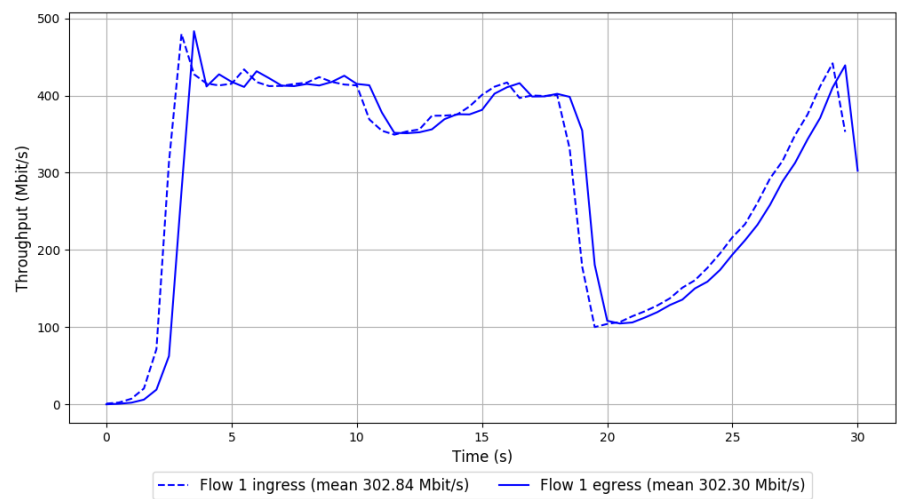


Run 5: Statistics of PCC-Vivace

Start at: 2019-09-19 01:24:04  
End at: 2019-09-19 01:24:34  
Local clock offset: -0.074 ms  
Remote clock offset: -0.799 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 302.30 Mbit/s  
95th percentile per-packet one-way delay: 61.710 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 302.30 Mbit/s  
95th percentile per-packet one-way delay: 61.710 ms  
Loss rate: 0.56%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

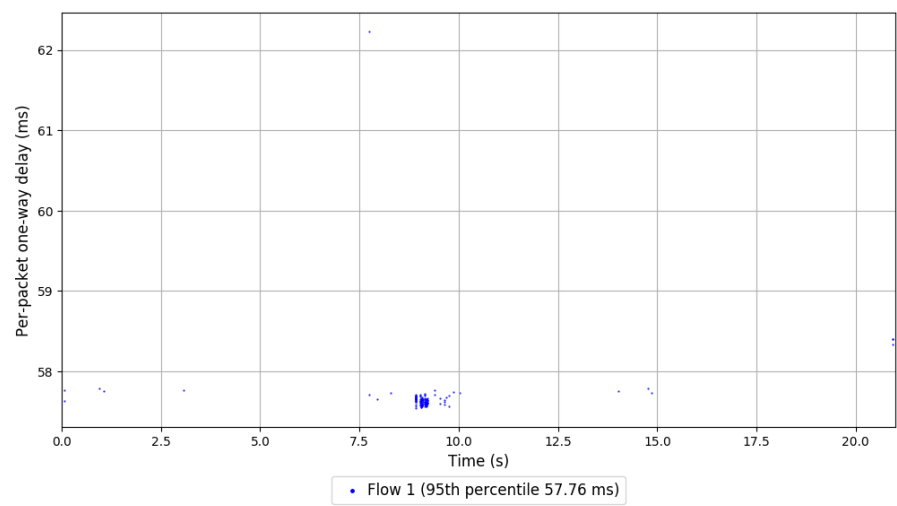
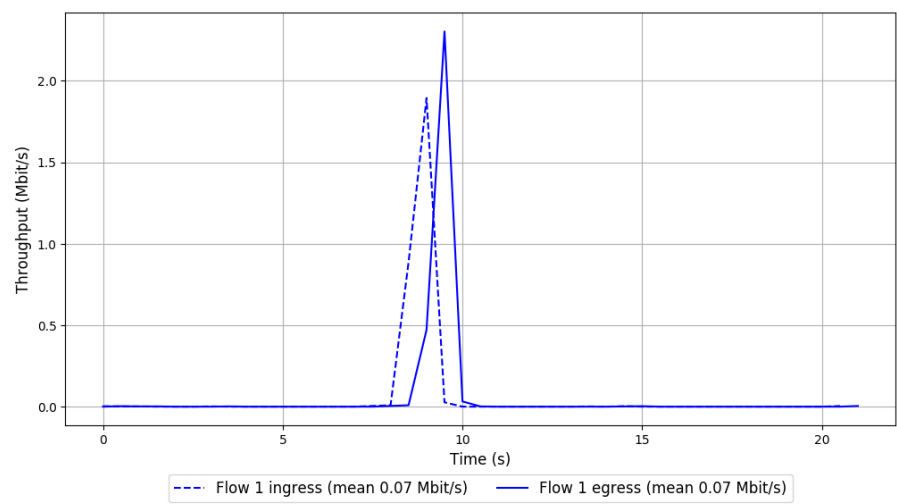
Start at: 2019-09-18 22:52:07

End at: 2019-09-18 22:52:37

Local clock offset: 0.182 ms

Remote clock offset: -0.051 ms

Run 1: Report of WebRTC media — Data Link



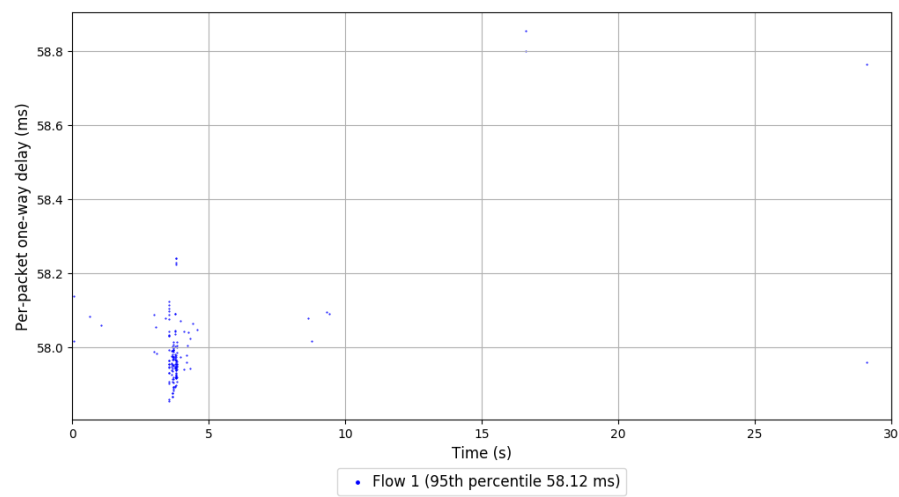
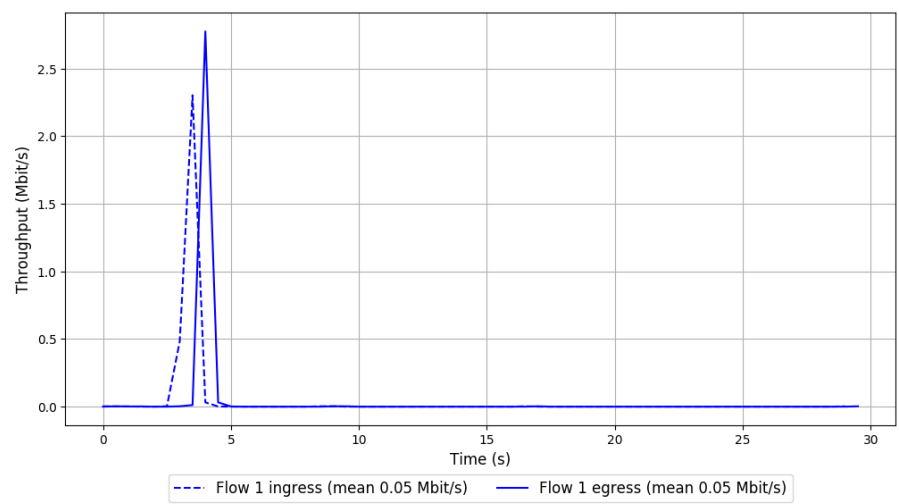


Run 2: Statistics of WebRTC media

Start at: 2019-09-18 23:27:17  
End at: 2019-09-18 23:27:47  
Local clock offset: -0.128 ms  
Remote clock offset: -0.749 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 58.123 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 58.123 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

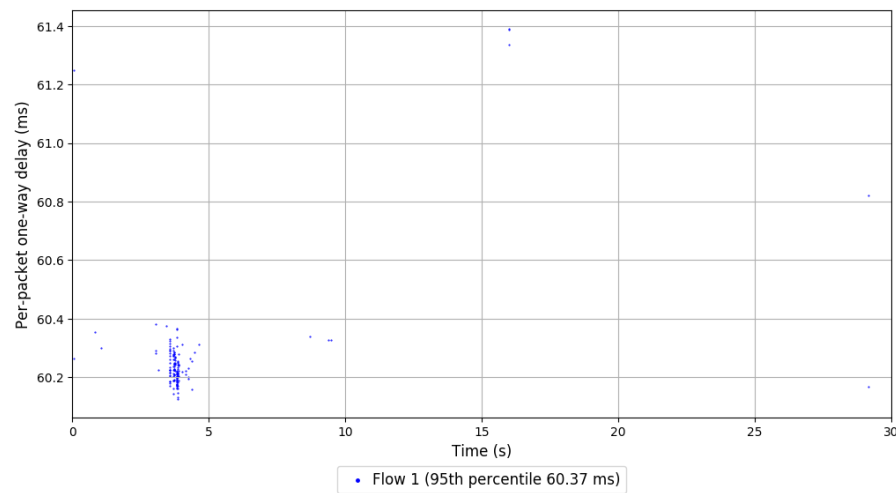
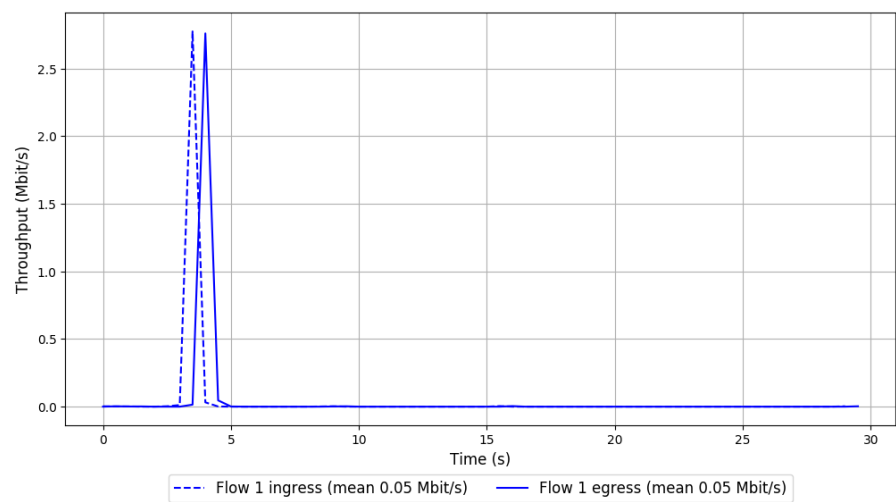


Run 3: Statistics of WebRTC media

Start at: 2019-09-19 00:02:17  
End at: 2019-09-19 00:02:47  
Local clock offset: -0.097 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.365 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.365 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2019-09-19 00:37:18

End at: 2019-09-19 00:37:48

Local clock offset: 0.314 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-09-19 03:58:46

# Datalink statistics

-- Total of 1 flow:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.712 ms

Loss rate: 0.00%

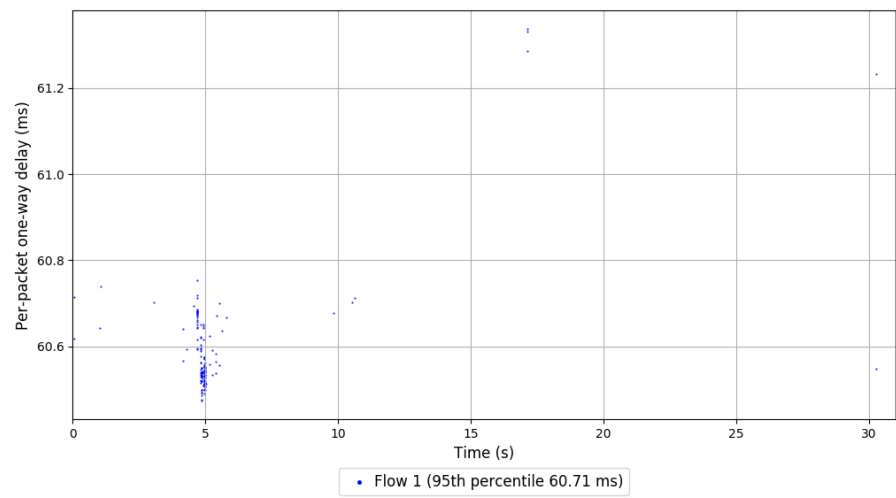
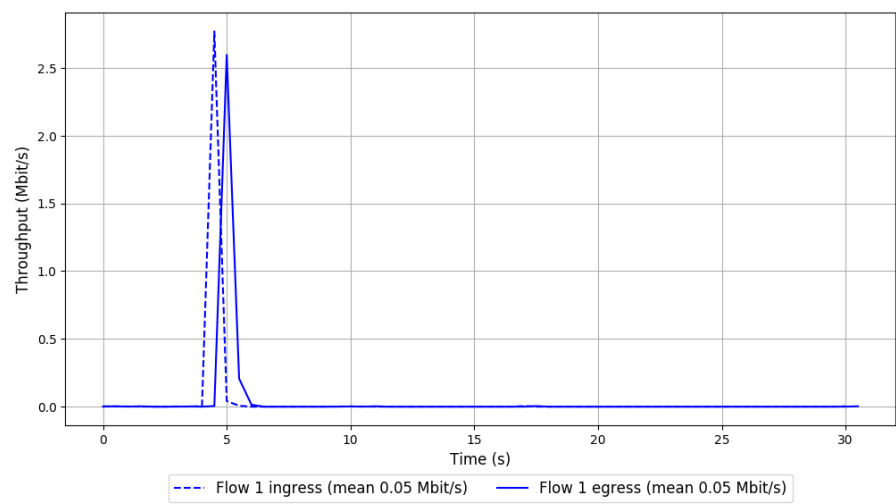
-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 60.712 ms

Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-19 01:12:38  
End at: 2019-09-19 01:13:08  
Local clock offset: -0.082 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-09-19 03:58:46  
# Datalink statistics  
-- Total of 1 flow:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.086 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 57.086 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

