

## Pantheon Report

Generated at 2019-10-03 17:03:03 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

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

### System info:

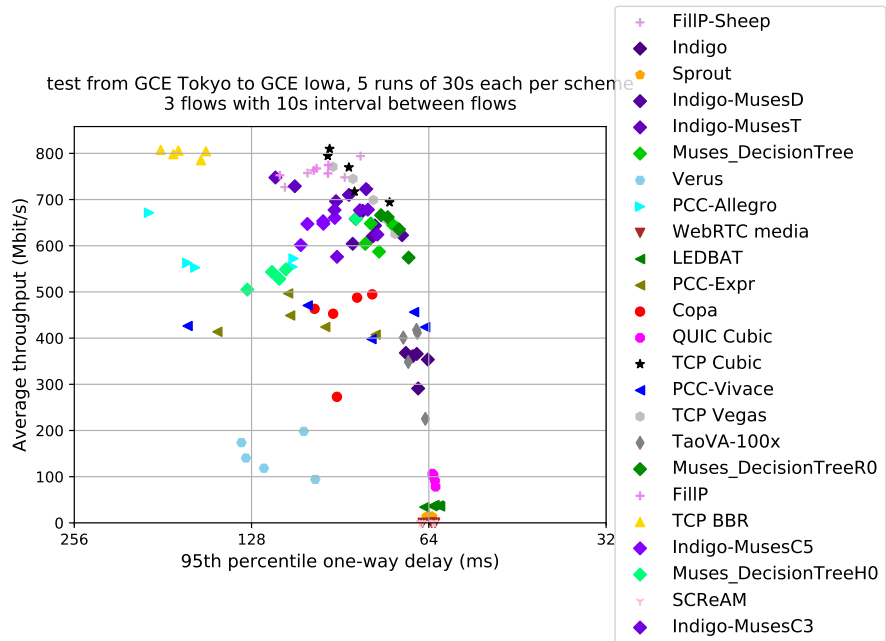
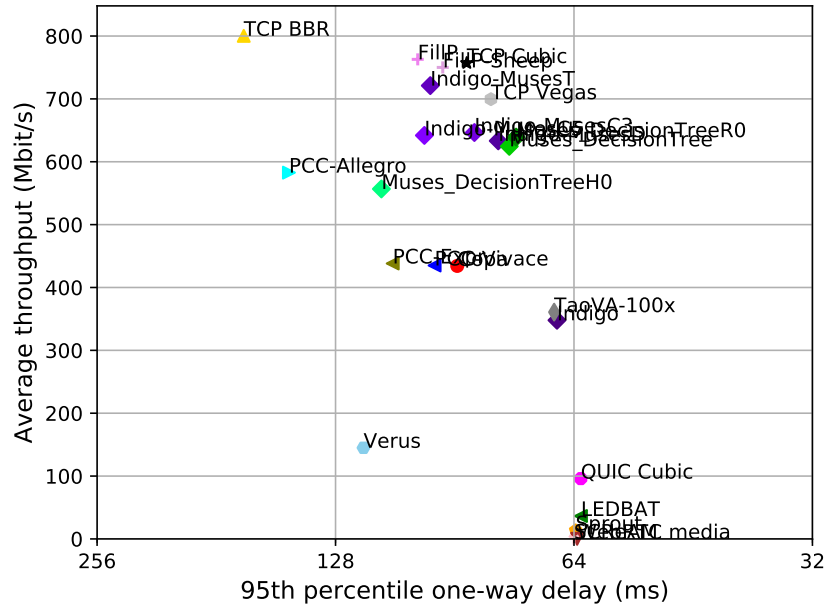
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
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 Iowa, 5 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	427.45	388.04	348.56	143.27	170.60	130.56	0.72	1.27	1.86
Copa	5	204.52	242.78	207.79	94.18	90.35	86.45	0.23	0.59	1.46
TCP Cubic	5	407.10	356.01	343.76	89.41	79.28	86.48	0.37	0.56	1.29
FillP	5	473.14	313.21	249.45	107.81	65.04	67.08	0.66	0.48	1.38
FillP-Sheep	5	469.87	299.55	248.19	100.80	67.06	67.63	0.51	0.59	1.27
Indigo	5	202.80	142.98	153.44	68.06	67.31	65.31	0.39	0.53	1.51
Indigo-MusesC3	5	383.25	326.76	221.42	87.61	83.87	67.22	0.27	0.64	2.55
Indigo-MusesC5	5	393.45	329.21	159.68	107.41	77.86	70.77	0.19	0.64	2.46
Indigo-MusesD	5	385.96	304.21	218.67	84.05	76.15	64.45	0.34	0.42	2.53
Indigo-MusesT	5	436.46	364.96	216.79	102.59	82.07	66.63	0.34	0.54	2.17
LEDBAT	5	23.84	15.40	7.40	62.24	62.31	61.42	0.76	1.19	2.17
Muses_DecisionTree	5	365.97	298.22	197.90	85.07	65.04	63.39	0.30	0.53	1.49
Muses_DecisionTreeH0	5	289.77	294.27	232.06	121.83	92.41	76.32	0.31	0.55	2.01
Muses_DecisionTreeR0	5	374.84	301.31	209.23	79.64	67.69	65.46	0.25	0.58	1.52
PCC-Allegro	5	325.76	280.30	217.93	153.30	114.55	124.96	2.45	1.36	2.10
PCC-Expr	5	256.59	198.84	151.64	120.31	92.30	75.00	1.06	0.85	1.79
QUIC Cubic	5	55.15	35.85	49.65	62.60	62.17	61.67	0.59	0.75	1.03
SCReAM	5	0.22	0.22	0.21	62.36	61.47	62.93	0.38	0.61	1.24
Sprout	5	6.95	6.81	6.57	63.17	62.89	62.86	0.32	0.65	0.93
TaoVA-100x	5	170.88	208.79	156.11	67.16	67.49	69.54	0.28	0.60	0.99
TCP Vegas	5	342.59	371.71	333.37	75.27	81.23	88.38	0.31	0.48	1.11
Verus	5	40.81	119.20	78.39	112.54	109.63	95.00	0.28	0.55	2.17
PCC-Vivace	5	262.33	189.56	143.30	101.60	105.68	65.45	0.42	0.63	1.55
WebRTC media	5	0.05	0.07	0.06	62.38	61.22	62.37	0.01	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-10-03 10:48:29

End at: 2019-10-03 10:48:59

Local clock offset: -0.071 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-10-03 14:38:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 785.21 Mbit/s

95th percentile per-packet one-way delay: 155.965 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 419.82 Mbit/s

95th percentile per-packet one-way delay: 106.620 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 386.97 Mbit/s

95th percentile per-packet one-way delay: 210.644 ms

Loss rate: 2.17%

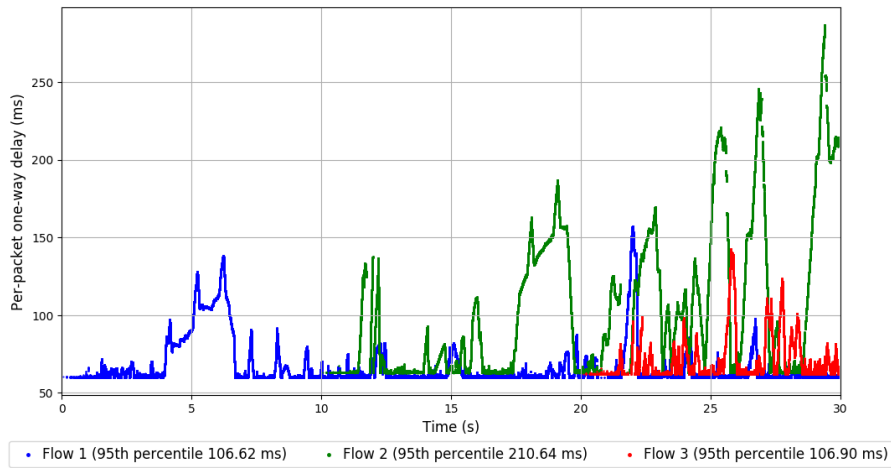
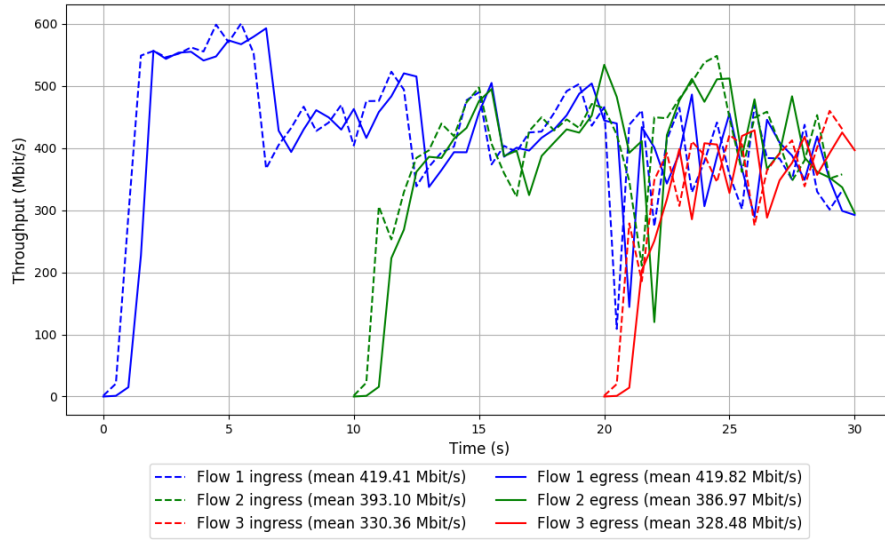
-- Flow 3:

Average throughput: 328.48 Mbit/s

95th percentile per-packet one-way delay: 106.904 ms

Loss rate: 1.80%

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



Run 2: Statistics of TCP BBR

Start at: 2019-10-03 11:28:21

End at: 2019-10-03 11:28:51

Local clock offset: -0.14 ms

Remote clock offset: 0.036 ms

# Below is generated by plot.py at 2019-10-03 14:39:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 807.47 Mbit/s

95th percentile per-packet one-way delay: 182.565 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 436.30 Mbit/s

95th percentile per-packet one-way delay: 201.023 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 381.79 Mbit/s

95th percentile per-packet one-way delay: 90.517 ms

Loss rate: 0.81%

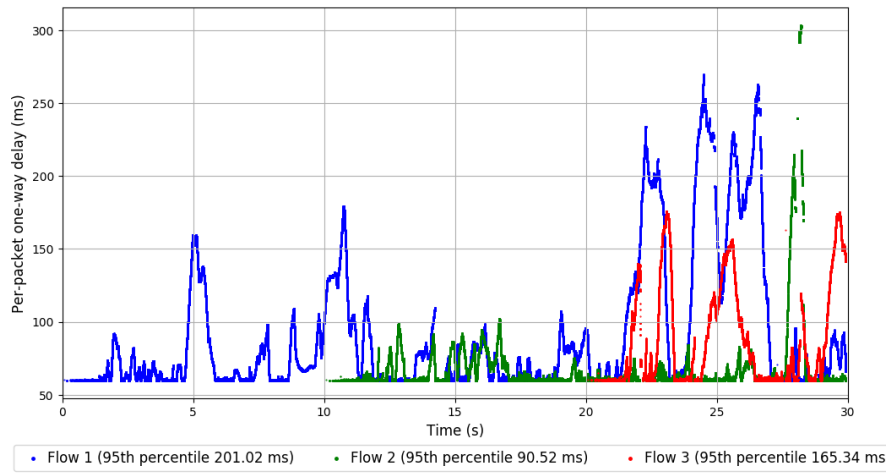
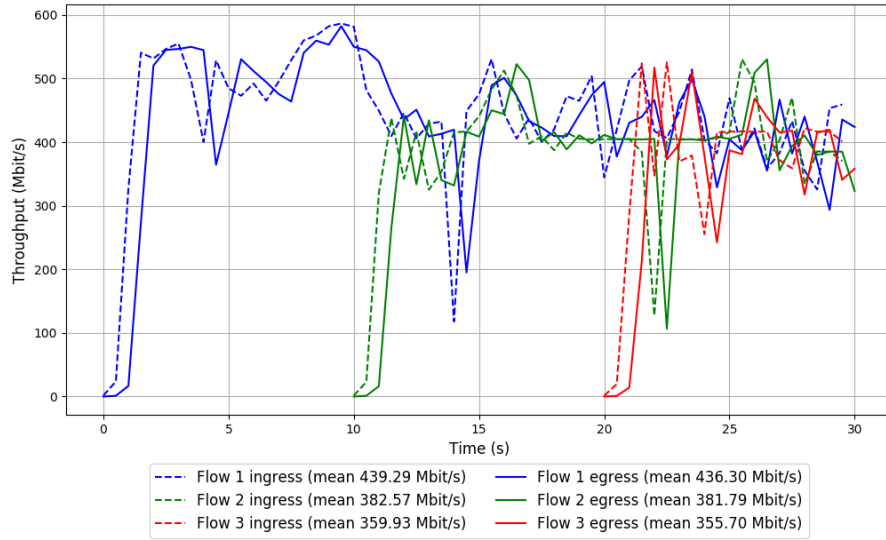
-- Flow 3:

Average throughput: 355.70 Mbit/s

95th percentile per-packet one-way delay: 165.342 ms

Loss rate: 2.37%

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





Run 3: Statistics of TCP BBR

Start at: 2019-10-03 12:08:41  
End at: 2019-10-03 12:09:11  
Local clock offset: -0.099 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-10-03 14:39:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 804.62 Mbit/s  
95th percentile per-packet one-way delay: 153.009 ms  
Loss rate: 1.09%

-- Flow 1:

Average throughput: 416.65 Mbit/s  
95th percentile per-packet one-way delay: 115.950 ms  
Loss rate: 0.82%

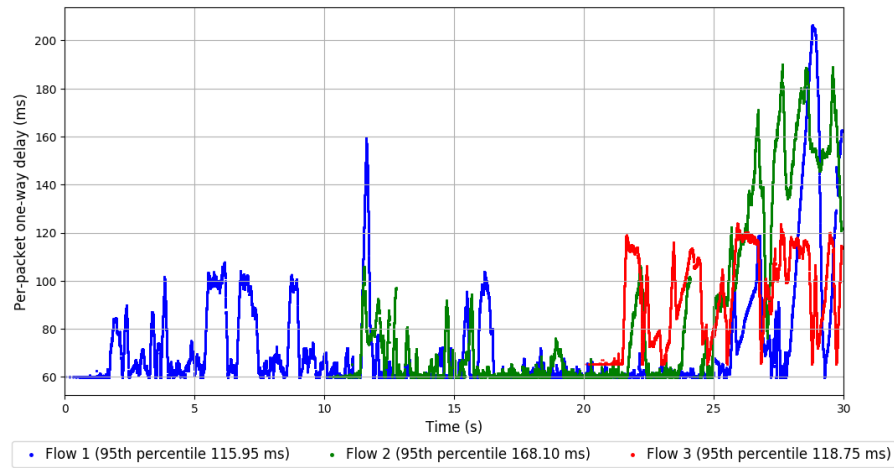
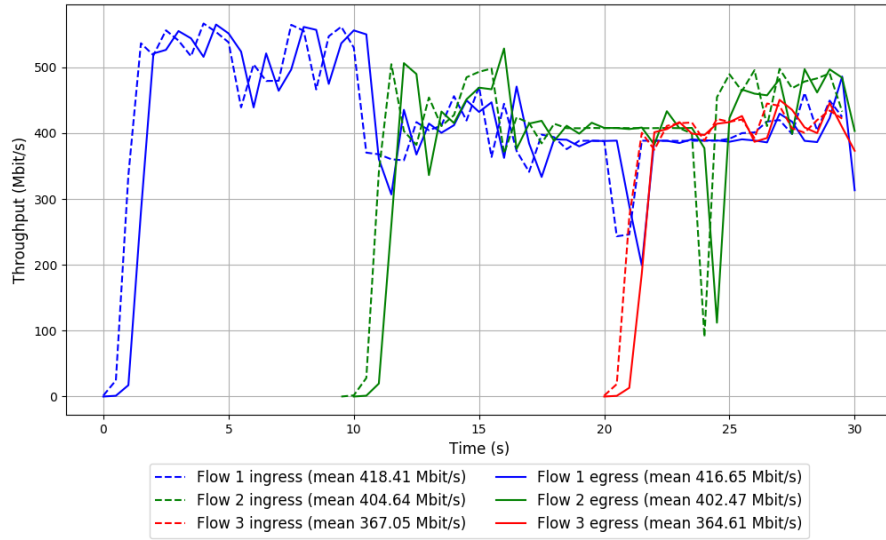
-- Flow 2:

Average throughput: 402.47 Mbit/s  
95th percentile per-packet one-way delay: 168.105 ms  
Loss rate: 1.14%

-- Flow 3:

Average throughput: 364.61 Mbit/s  
95th percentile per-packet one-way delay: 118.752 ms  
Loss rate: 1.92%

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

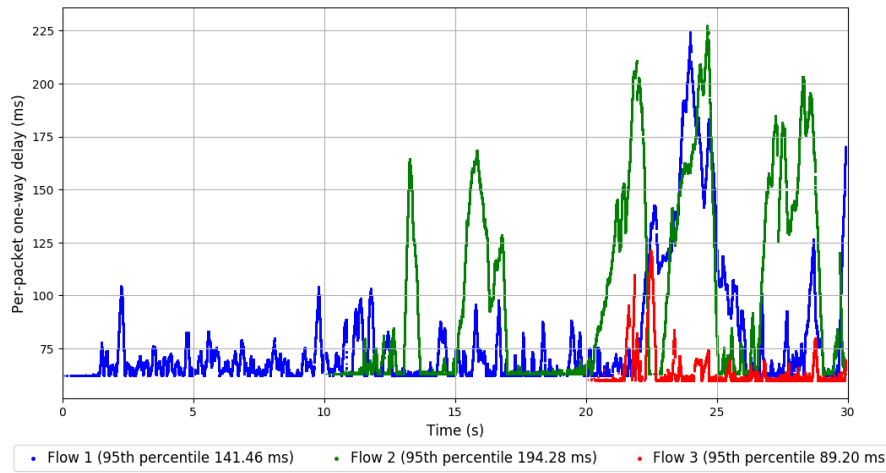
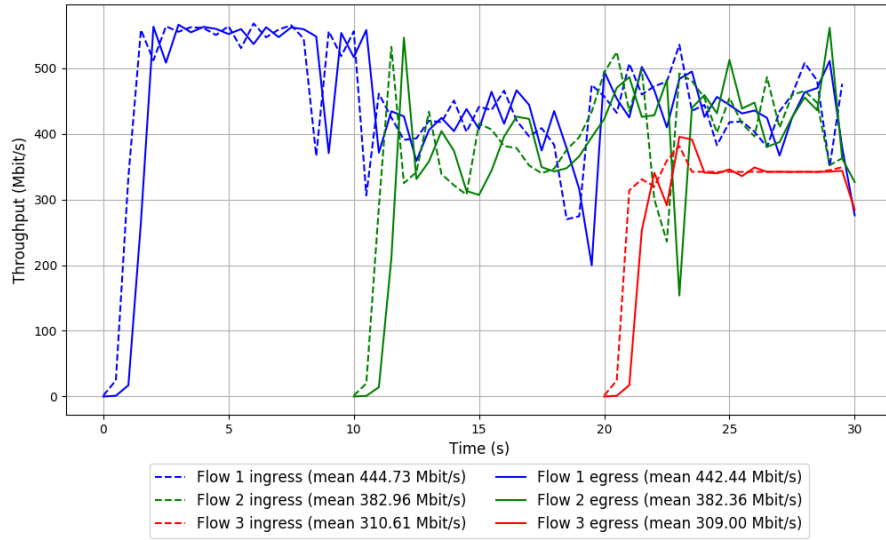


Run 4: Statistics of TCP BBR

Start at: 2019-10-03 12:48:12  
End at: 2019-10-03 12:48:42  
Local clock offset: -0.06 ms  
Remote clock offset: -0.011 ms

```
# Below is generated by plot.py at 2019-10-03 14:39:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 798.43 Mbit/s
95th percentile per-packet one-way delay: 173.759 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 442.44 Mbit/s
95th percentile per-packet one-way delay: 141.457 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 382.36 Mbit/s
95th percentile per-packet one-way delay: 194.275 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 309.00 Mbit/s
95th percentile per-packet one-way delay: 89.198 ms
Loss rate: 1.72%
```

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

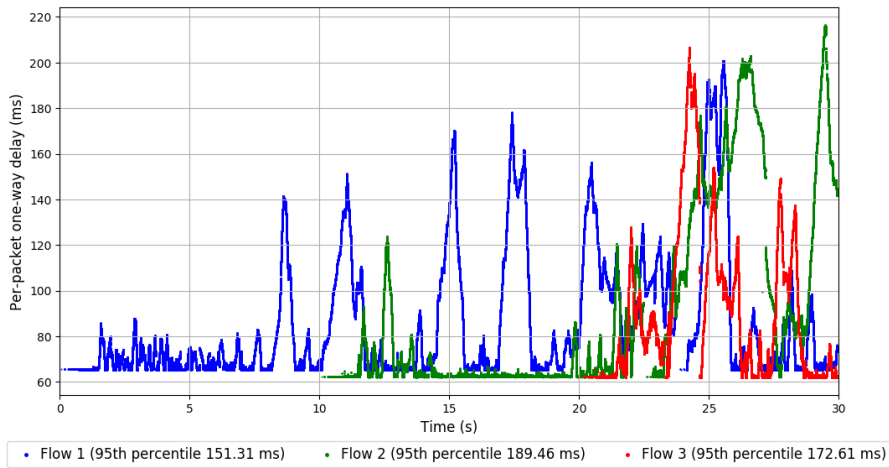
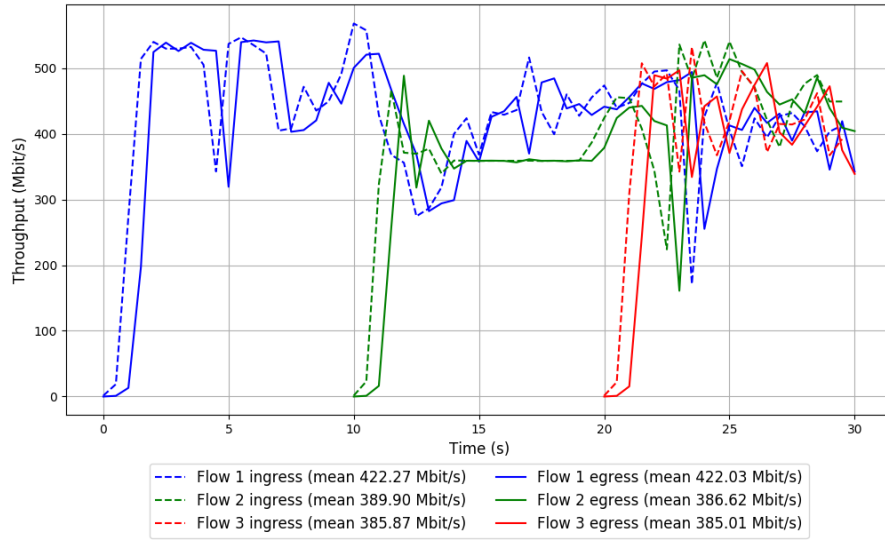


Run 5: Statistics of TCP BBR

Start at: 2019-10-03 13:28:04  
End at: 2019-10-03 13:28:34  
Local clock offset: -0.018 ms  
Remote clock offset: -0.072 ms

```
# Below is generated by plot.py at 2019-10-03 14:39:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 805.91 Mbit/s
95th percentile per-packet one-way delay: 170.388 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 422.03 Mbit/s
95th percentile per-packet one-way delay: 151.309 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 386.62 Mbit/s
95th percentile per-packet one-way delay: 189.463 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 385.01 Mbit/s
95th percentile per-packet one-way delay: 172.606 ms
Loss rate: 1.48%
```

Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-10-03 11:09:12

End at: 2019-10-03 11:09:42

Local clock offset: -0.076 ms

Remote clock offset: 0.674 ms

# Below is generated by plot.py at 2019-10-03 14:40:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 494.72 Mbit/s

95th percentile per-packet one-way delay: 79.848 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 264.16 Mbit/s

95th percentile per-packet one-way delay: 81.154 ms

Loss rate: 0.15%

-- Flow 2:

Average throughput: 243.89 Mbit/s

95th percentile per-packet one-way delay: 80.661 ms

Loss rate: 0.71%

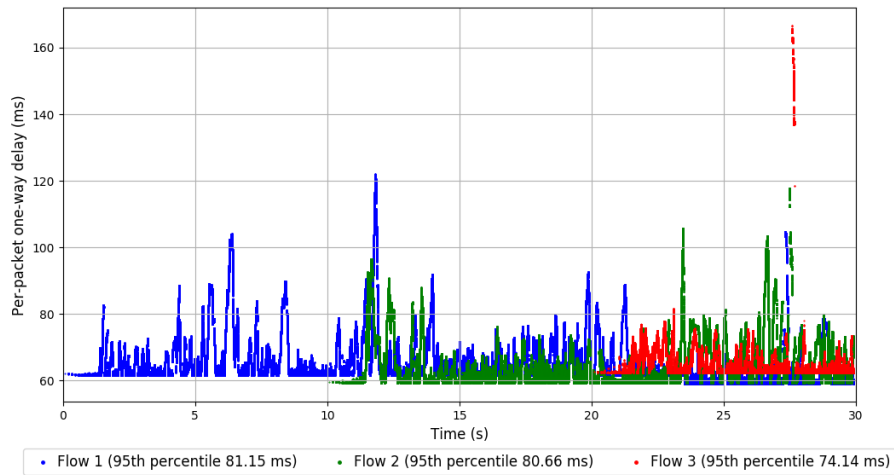
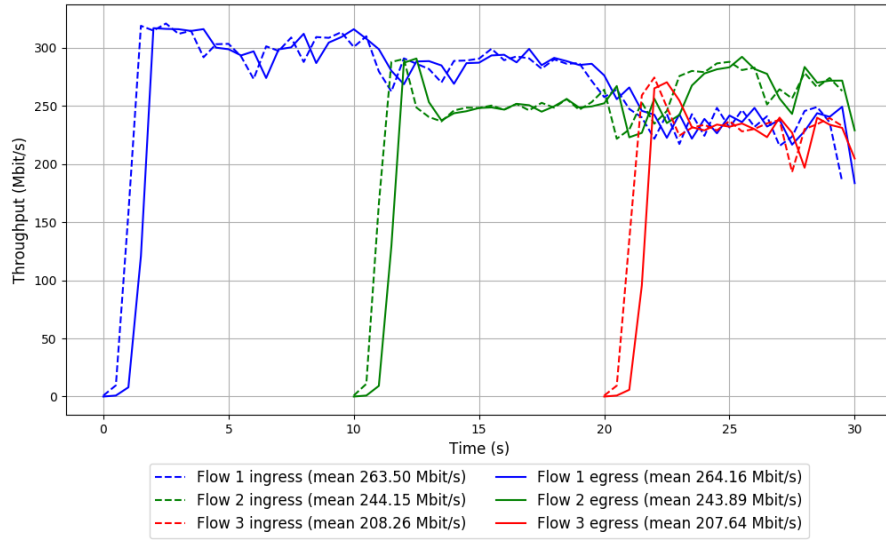
-- Flow 3:

Average throughput: 207.64 Mbit/s

95th percentile per-packet one-way delay: 74.141 ms

Loss rate: 1.53%

### Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-10-03 11:49:25  
End at: 2019-10-03 11:49:55  
Local clock offset: -0.095 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-10-03 14:40:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 452.81 Mbit/s  
95th percentile per-packet one-way delay: 93.036 ms  
Loss rate: 0.60%

-- Flow 1:

Average throughput: 223.51 Mbit/s  
95th percentile per-packet one-way delay: 89.616 ms  
Loss rate: 0.34%

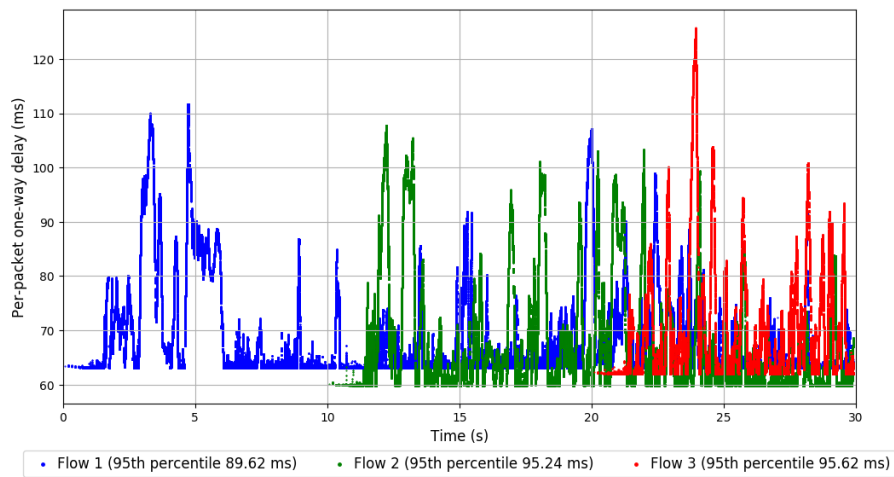
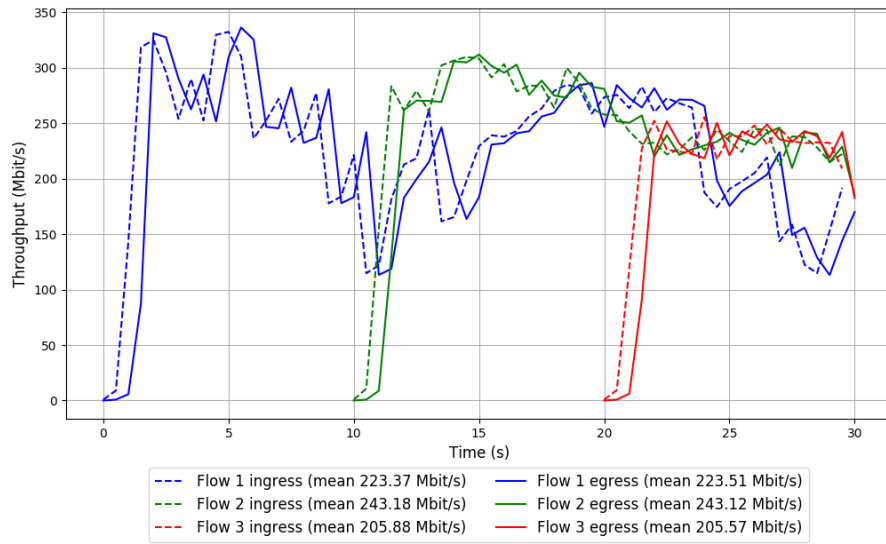
-- Flow 2:

Average throughput: 243.12 Mbit/s  
95th percentile per-packet one-way delay: 95.240 ms  
Loss rate: 0.62%

-- Flow 3:

Average throughput: 205.57 Mbit/s  
95th percentile per-packet one-way delay: 95.618 ms  
Loss rate: 1.39%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-03 12:29:30  
End at: 2019-10-03 12:30:00  
Local clock offset: -0.053 ms  
Remote clock offset: -0.697 ms

# Below is generated by plot.py at 2019-10-03 14:40:51

# Datalink statistics

-- Total of 3 flows:

Average throughput: 272.86 Mbit/s  
95th percentile per-packet one-way delay: 91.663 ms  
Loss rate: 0.84%

-- Flow 1:

Average throughput: 23.82 Mbit/s  
95th percentile per-packet one-way delay: 115.804 ms  
Loss rate: 0.00%

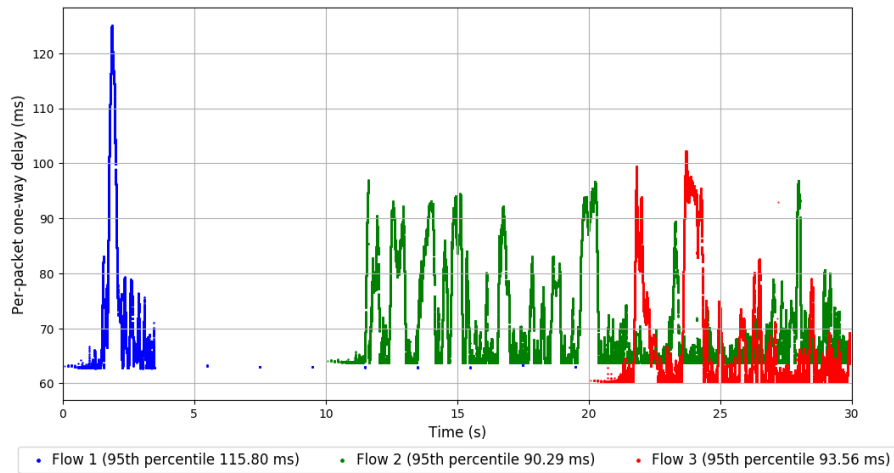
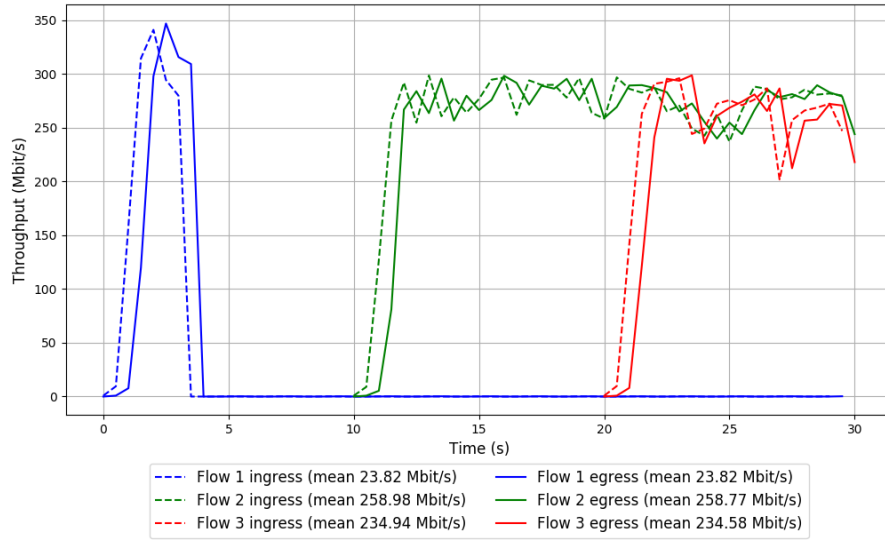
-- Flow 2:

Average throughput: 258.77 Mbit/s  
95th percentile per-packet one-way delay: 90.290 ms  
Loss rate: 0.71%

-- Flow 3:

Average throughput: 234.58 Mbit/s  
95th percentile per-packet one-way delay: 93.560 ms  
Loss rate: 1.37%

### Run 3: Report of Copa — Data Link

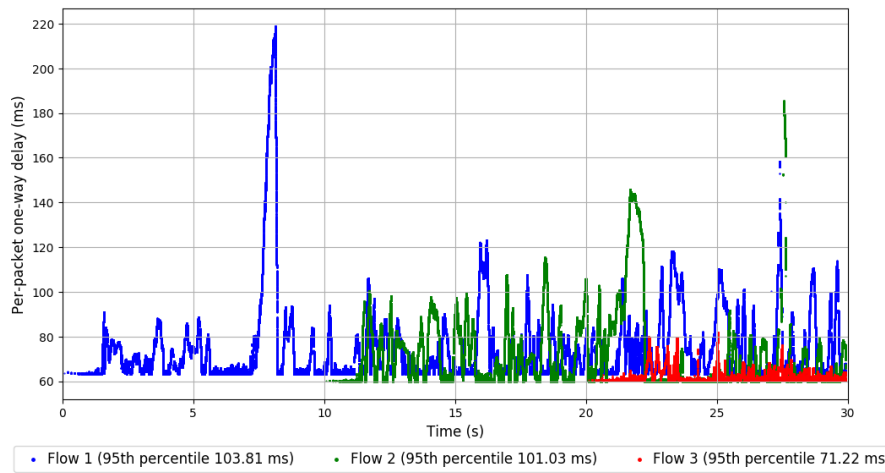
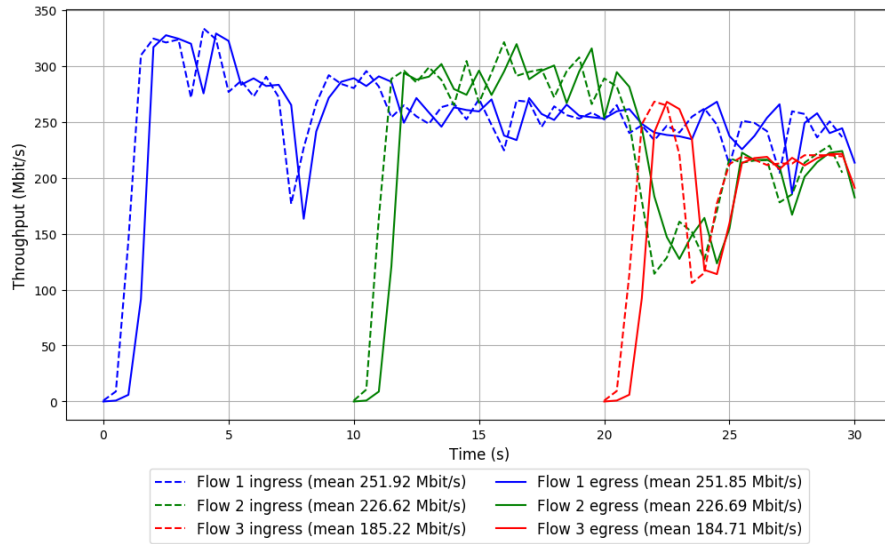


Run 4: Statistics of Copa

Start at: 2019-10-03 13:08:49  
End at: 2019-10-03 13:09:19  
Local clock offset: -0.007 ms  
Remote clock offset: -0.249 ms

```
# Below is generated by plot.py at 2019-10-03 14:50:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 463.37 Mbit/s
95th percentile per-packet one-way delay: 100.029 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 251.85 Mbit/s
95th percentile per-packet one-way delay: 103.810 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 226.69 Mbit/s
95th percentile per-packet one-way delay: 101.031 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 184.71 Mbit/s
95th percentile per-packet one-way delay: 71.224 ms
Loss rate: 1.49%
```

### Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-10-03 13:48:38

End at: 2019-10-03 13:49:08

Local clock offset: -0.053 ms

Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-10-03 14:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 487.68 Mbit/s

95th percentile per-packet one-way delay: 84.720 ms

Loss rate: 0.46%

-- Flow 1:

Average throughput: 259.27 Mbit/s

95th percentile per-packet one-way delay: 80.516 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 241.45 Mbit/s

95th percentile per-packet one-way delay: 84.552 ms

Loss rate: 0.34%

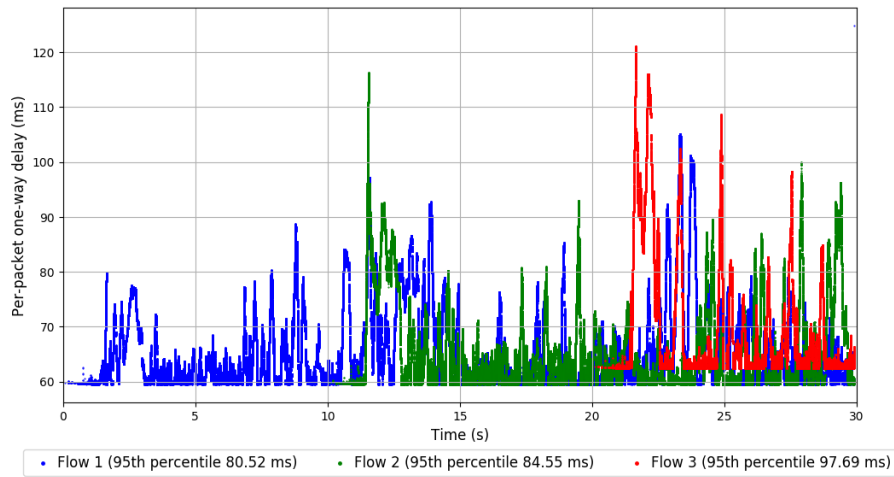
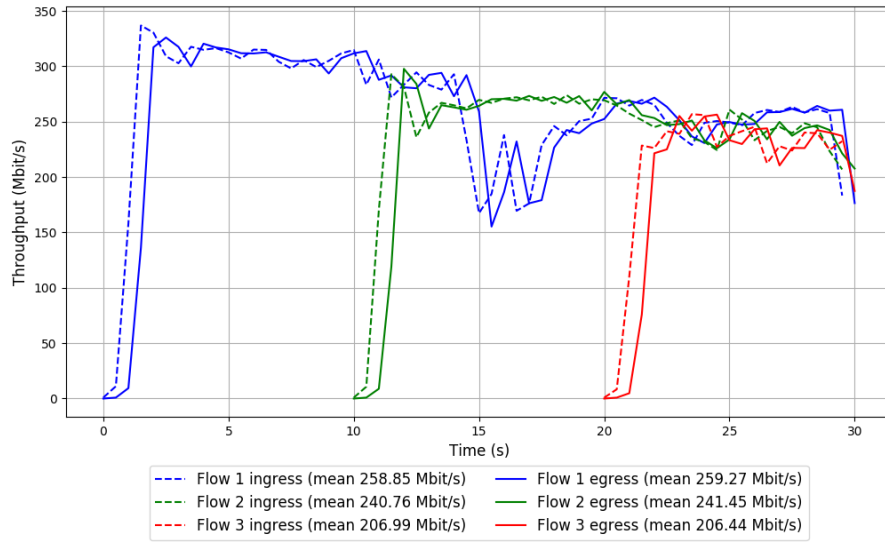
-- Flow 3:

Average throughput: 206.44 Mbit/s

95th percentile per-packet one-way delay: 97.686 ms

Loss rate: 1.53%

### Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-10-03 10:56:32  
End at: 2019-10-03 10:57:02  
Local clock offset: -0.067 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-10-03 14:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 769.64 Mbit/s  
95th percentile per-packet one-way delay: 87.491 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 446.58 Mbit/s  
95th percentile per-packet one-way delay: 88.087 ms  
Loss rate: 0.34%

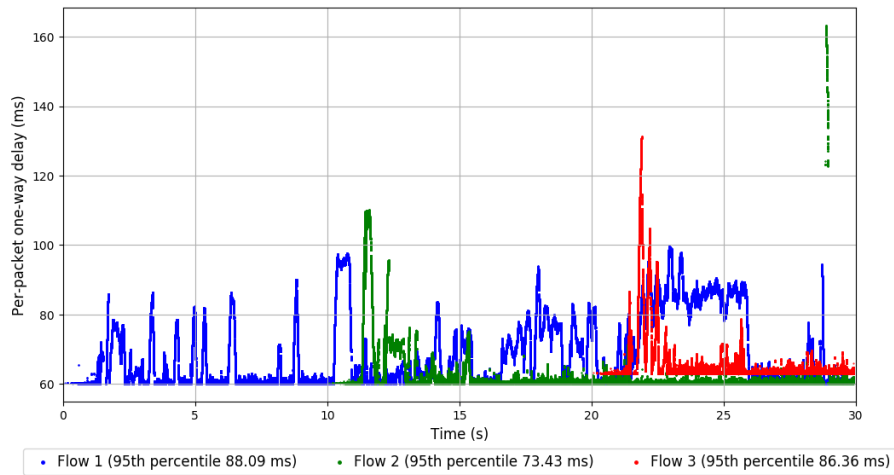
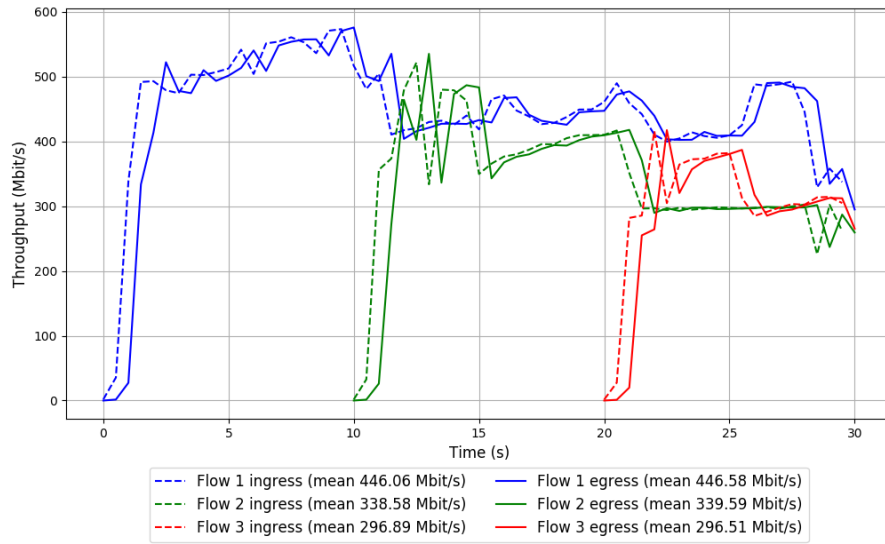
-- Flow 2:

Average throughput: 339.59 Mbit/s  
95th percentile per-packet one-way delay: 73.432 ms  
Loss rate: 0.31%

-- Flow 3:

Average throughput: 296.51 Mbit/s  
95th percentile per-packet one-way delay: 86.365 ms  
Loss rate: 1.35%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-10-03 11:36:31  
End at: 2019-10-03 11:37:01  
Local clock offset: -0.13 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-10-03 14:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 794.49 Mbit/s  
95th percentile per-packet one-way delay: 94.996 ms  
Loss rate: 0.62%

-- Flow 1:

Average throughput: 411.63 Mbit/s  
95th percentile per-packet one-way delay: 99.912 ms  
Loss rate: 0.40%

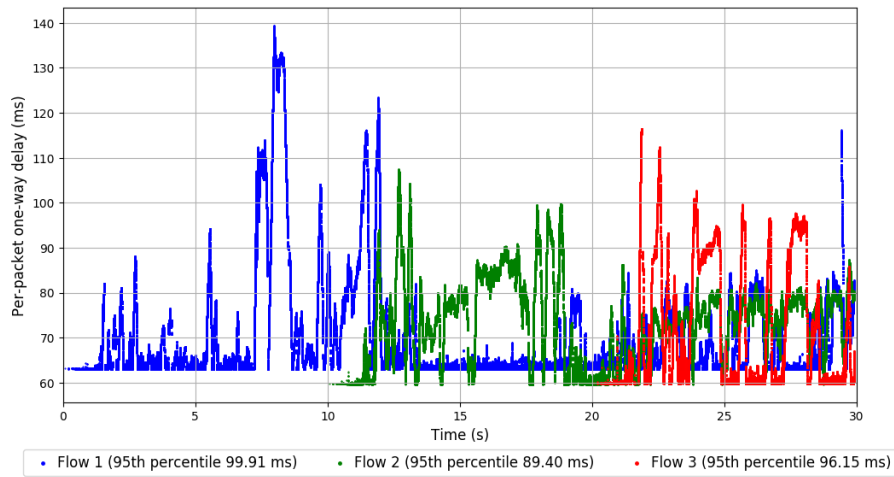
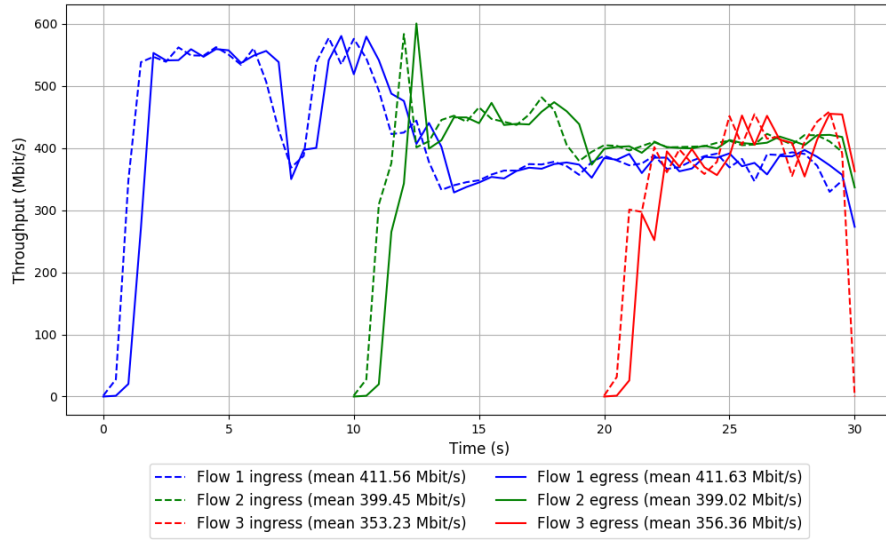
-- Flow 2:

Average throughput: 399.02 Mbit/s  
95th percentile per-packet one-way delay: 89.396 ms  
Loss rate: 0.71%

-- Flow 3:

Average throughput: 356.36 Mbit/s  
95th percentile per-packet one-way delay: 96.153 ms  
Loss rate: 1.21%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 12:16:46  
End at: 2019-10-03 12:17:16  
Local clock offset: -0.085 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-10-03 14:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 809.68 Mbit/s  
95th percentile per-packet one-way delay: 94.334 ms  
Loss rate: 0.66%

-- Flow 1:

Average throughput: 438.17 Mbit/s  
95th percentile per-packet one-way delay: 95.395 ms  
Loss rate: 0.40%

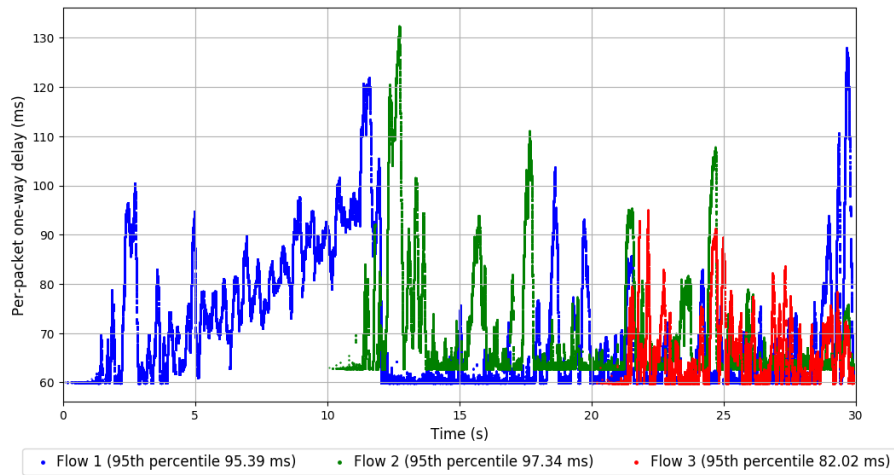
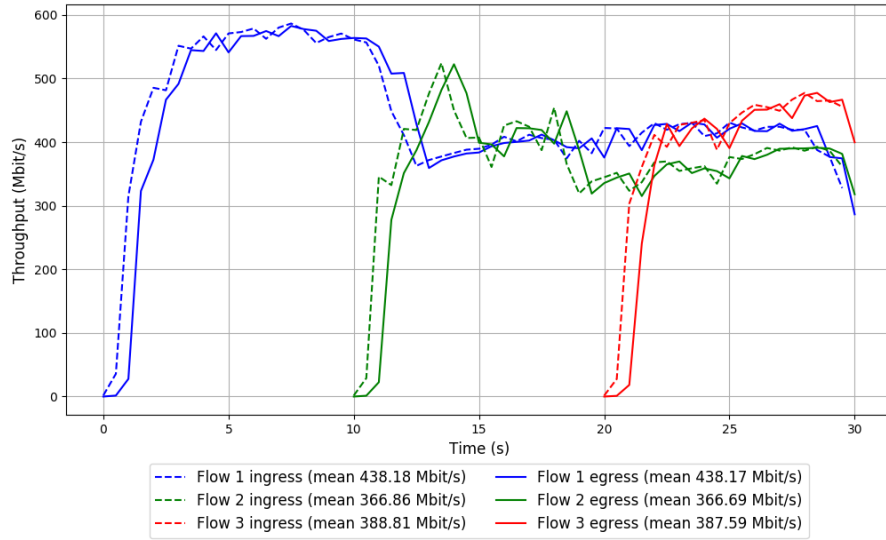
-- Flow 2:

Average throughput: 366.69 Mbit/s  
95th percentile per-packet one-way delay: 97.344 ms  
Loss rate: 0.66%

-- Flow 3:

Average throughput: 387.59 Mbit/s  
95th percentile per-packet one-way delay: 82.020 ms  
Loss rate: 1.53%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 12:56:09  
End at: 2019-10-03 12:56:39  
Local clock offset: -0.037 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-10-03 14:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 717.41 Mbit/s  
95th percentile per-packet one-way delay: 85.580 ms  
Loss rate: 0.63%

-- Flow 1:

Average throughput: 364.43 Mbit/s  
95th percentile per-packet one-way delay: 86.895 ms  
Loss rate: 0.37%

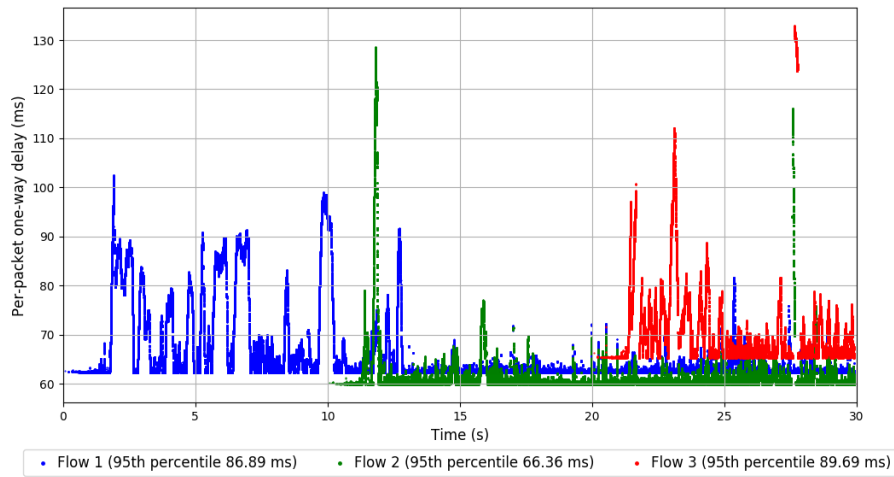
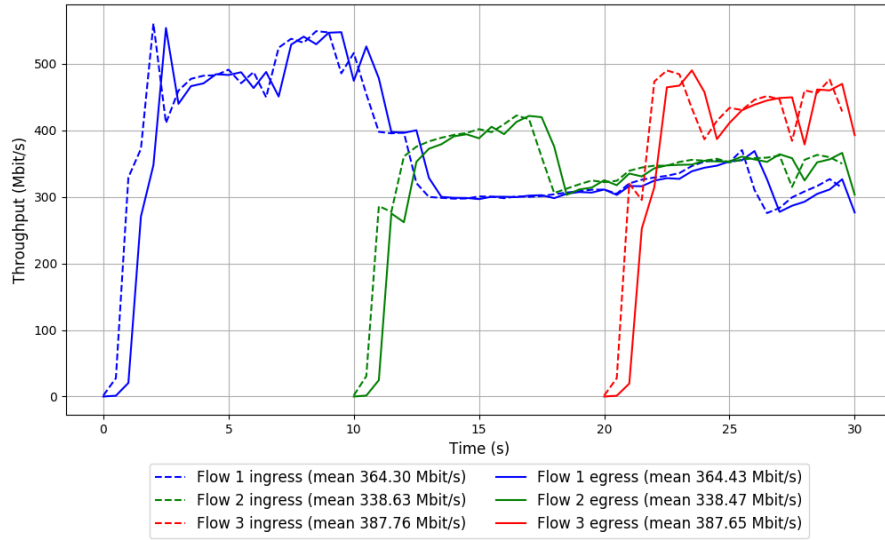
-- Flow 2:

Average throughput: 338.47 Mbit/s  
95th percentile per-packet one-way delay: 66.363 ms  
Loss rate: 0.65%

-- Flow 3:

Average throughput: 387.65 Mbit/s  
95th percentile per-packet one-way delay: 89.693 ms  
Loss rate: 1.29%

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





Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 13:35:55  
End at: 2019-10-03 13:36:25  
Local clock offset: -0.007 ms  
Remote clock offset: -0.178 ms

# Below is generated by plot.py at 2019-10-03 14:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 694.08 Mbit/s  
95th percentile per-packet one-way delay: 74.615 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 374.69 Mbit/s  
95th percentile per-packet one-way delay: 76.750 ms  
Loss rate: 0.33%

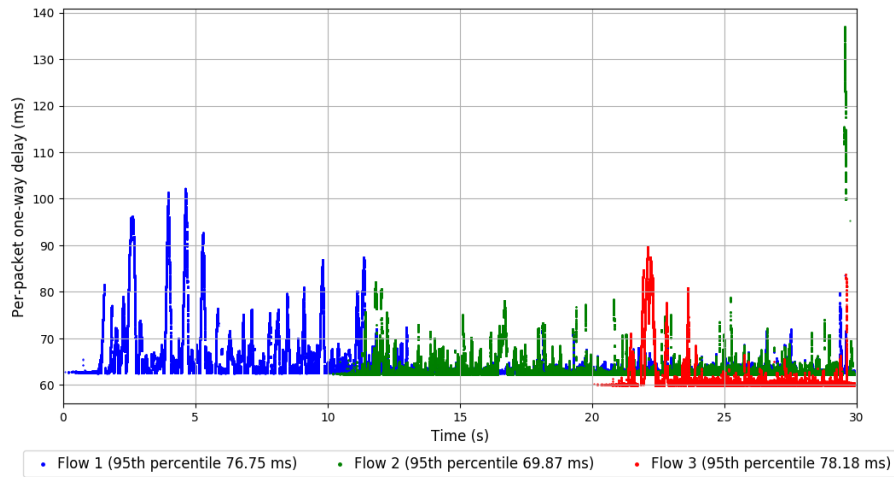
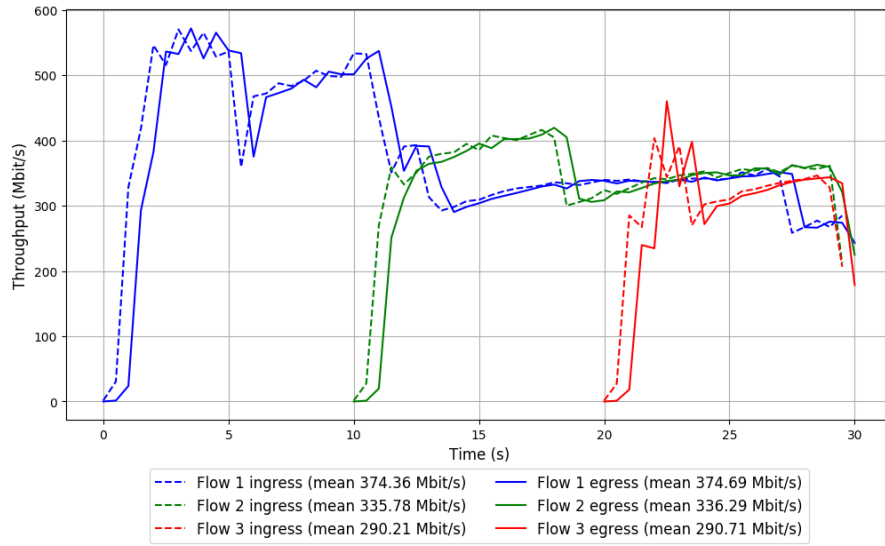
-- Flow 2:

Average throughput: 336.29 Mbit/s  
95th percentile per-packet one-way delay: 69.869 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 290.71 Mbit/s  
95th percentile per-packet one-way delay: 78.180 ms  
Loss rate: 1.05%

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



Run 1: Statistics of FillP

Start at: 2019-10-03 11:03:10

End at: 2019-10-03 11:03:40

Local clock offset: -0.08 ms

Remote clock offset: 0.094 ms

# Below is generated by plot.py at 2019-10-03 14:58:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 756.59 Mbit/s

95th percentile per-packet one-way delay: 94.945 ms

Loss rate: 0.61%

-- Flow 1:

Average throughput: 464.16 Mbit/s

95th percentile per-packet one-way delay: 102.157 ms

Loss rate: 0.55%

-- Flow 2:

Average throughput: 312.25 Mbit/s

95th percentile per-packet one-way delay: 61.514 ms

Loss rate: 0.56%

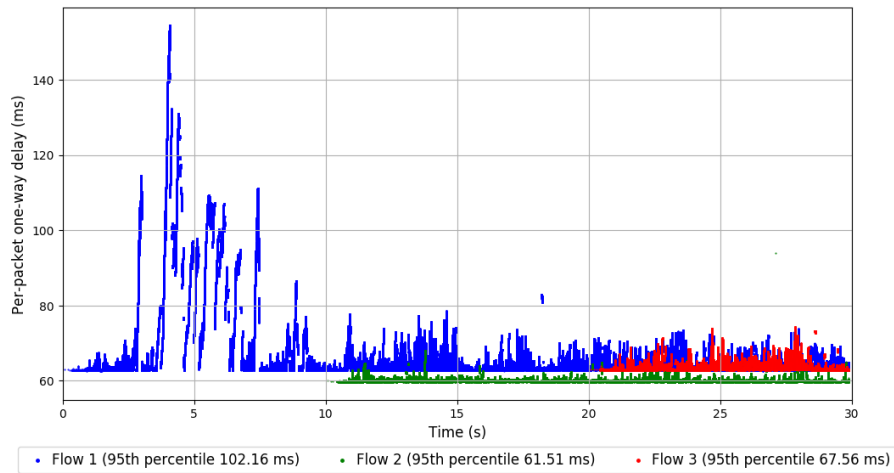
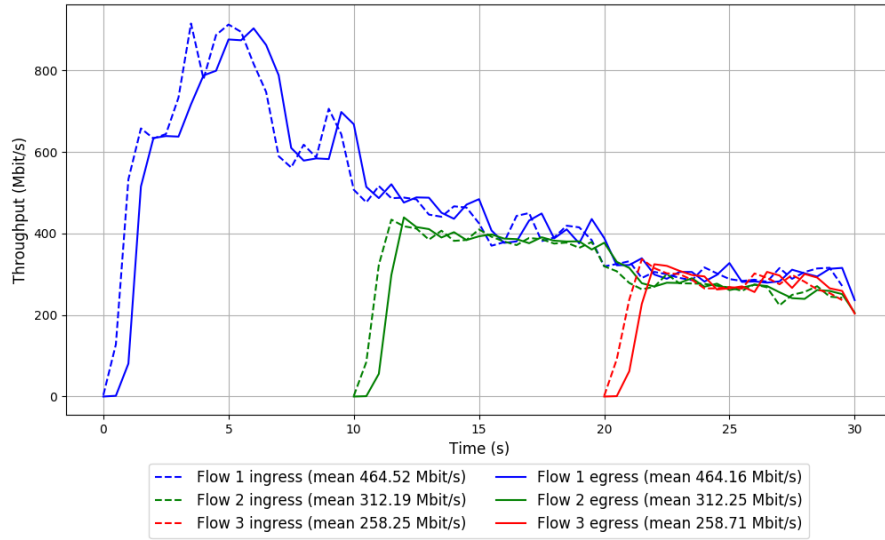
-- Flow 3:

Average throughput: 258.71 Mbit/s

95th percentile per-packet one-way delay: 67.560 ms

Loss rate: 1.11%

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



Run 2: Statistics of FillP

Start at: 2019-10-03 11:43:19  
End at: 2019-10-03 11:43:49  
Local clock offset: -0.134 ms  
Remote clock offset: -0.578 ms

# Below is generated by plot.py at 2019-10-03 15:07:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 763.12 Mbit/s  
95th percentile per-packet one-way delay: 100.365 ms  
Loss rate: 0.68%

-- Flow 1:

Average throughput: 477.78 Mbit/s  
95th percentile per-packet one-way delay: 109.787 ms  
Loss rate: 0.60%

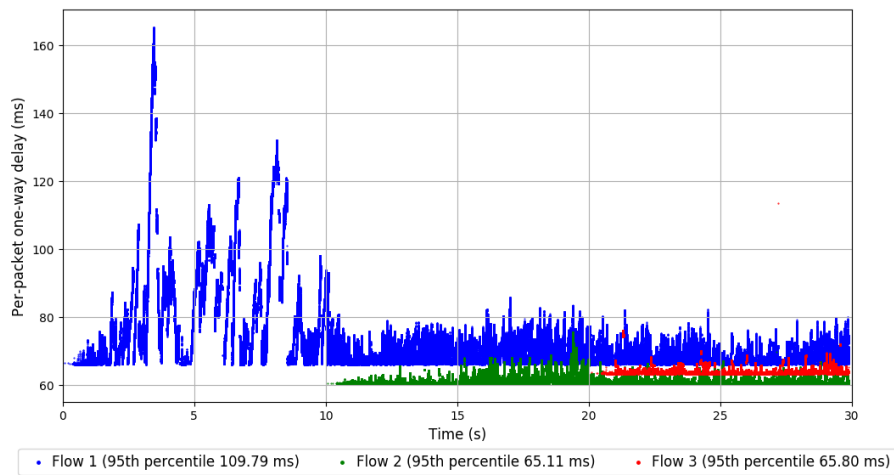
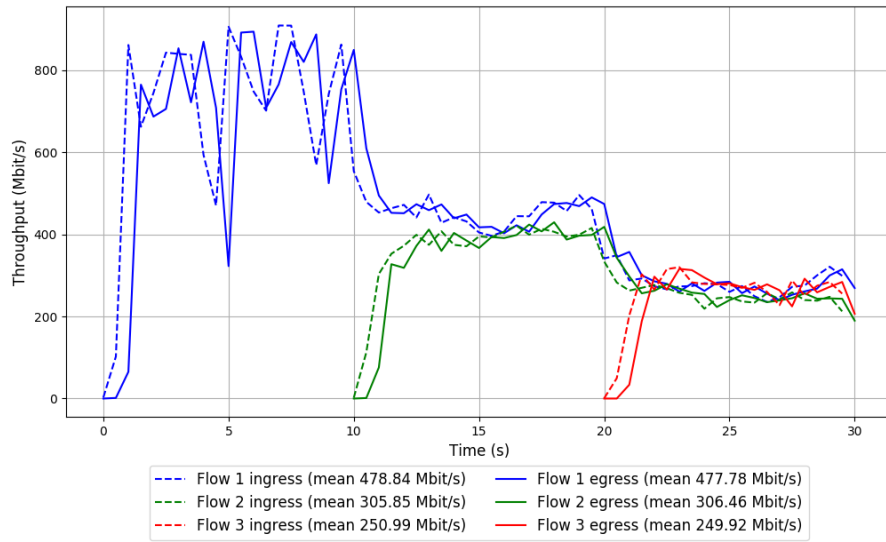
-- Flow 2:

Average throughput: 306.46 Mbit/s  
95th percentile per-packet one-way delay: 65.112 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 249.92 Mbit/s  
95th percentile per-packet one-way delay: 65.803 ms  
Loss rate: 1.64%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 12:23:28

End at: 2019-10-03 12:23:58

Local clock offset: -0.039 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-10-03 15:10:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 767.45 Mbit/s

95th percentile per-packet one-way delay: 99.255 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 467.63 Mbit/s

95th percentile per-packet one-way delay: 106.646 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 326.20 Mbit/s

95th percentile per-packet one-way delay: 68.917 ms

Loss rate: 0.43%

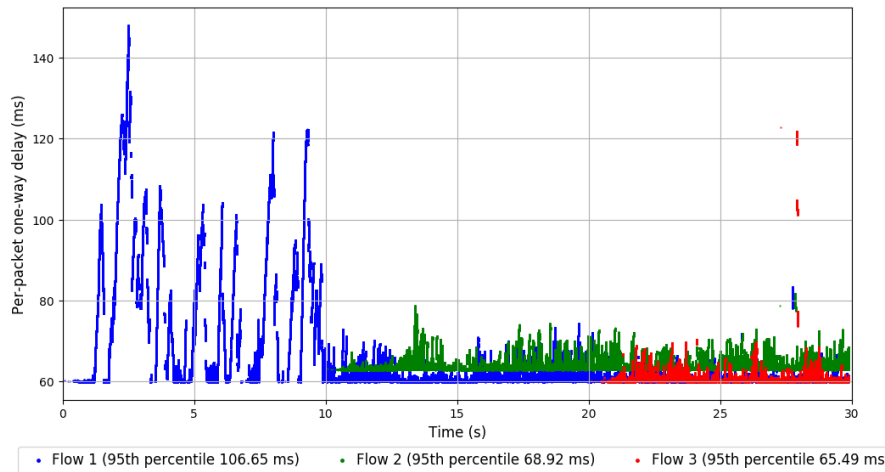
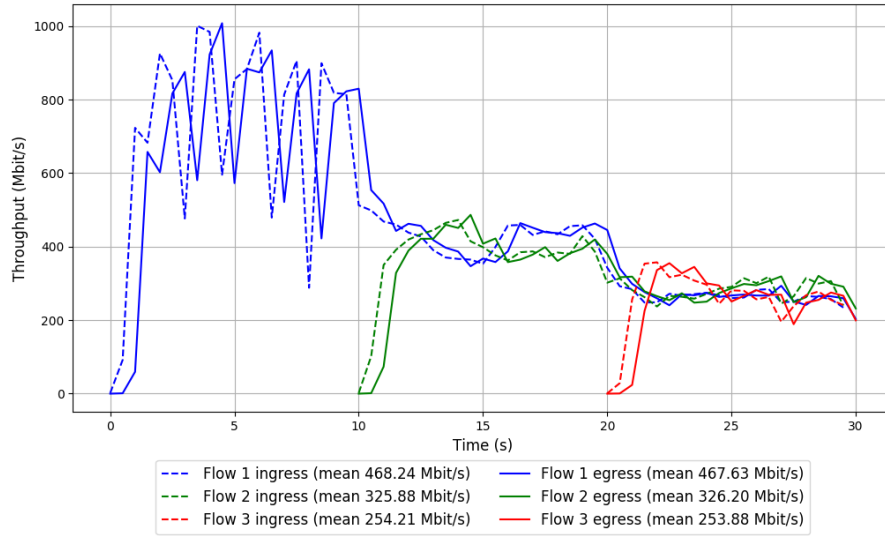
-- Flow 3:

Average throughput: 253.88 Mbit/s

95th percentile per-packet one-way delay: 65.491 ms

Loss rate: 1.29%

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





Run 4: Statistics of FillP

Start at: 2019-10-03 13:02:46  
End at: 2019-10-03 13:03:16  
Local clock offset: -0.021 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-10-03 15:10:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 752.66 Mbit/s  
95th percentile per-packet one-way delay: 114.627 ms  
Loss rate: 1.00%

-- Flow 1:

Average throughput: 471.81 Mbit/s  
95th percentile per-packet one-way delay: 121.158 ms  
Loss rate: 1.16%

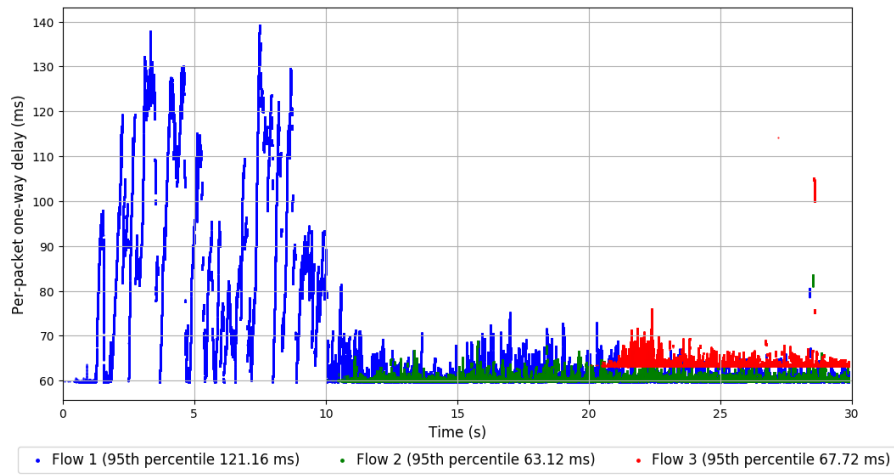
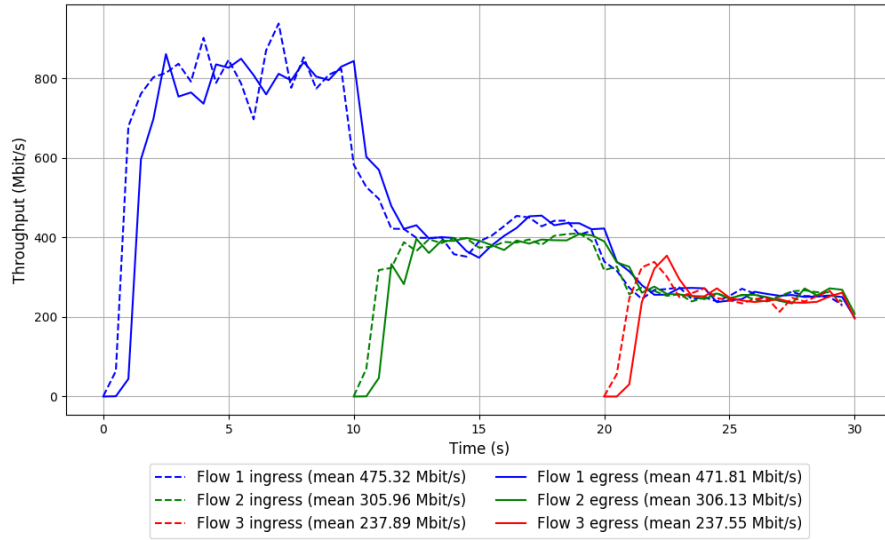
-- Flow 2:

Average throughput: 306.13 Mbit/s  
95th percentile per-packet one-way delay: 63.117 ms  
Loss rate: 0.47%

-- Flow 3:

Average throughput: 237.55 Mbit/s  
95th percentile per-packet one-way delay: 67.720 ms  
Loss rate: 1.39%

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



Run 5: Statistics of FillP

Start at: 2019-10-03 13:42:32  
End at: 2019-10-03 13:43:02  
Local clock offset: -0.011 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-10-03 15:11:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 774.67 Mbit/s  
95th percentile per-packet one-way delay: 94.784 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 484.33 Mbit/s  
95th percentile per-packet one-way delay: 99.320 ms  
Loss rate: 0.37%

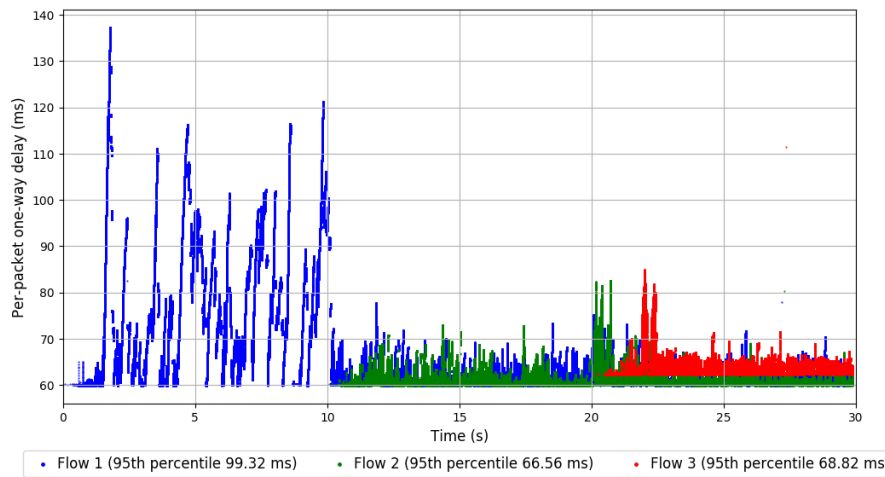
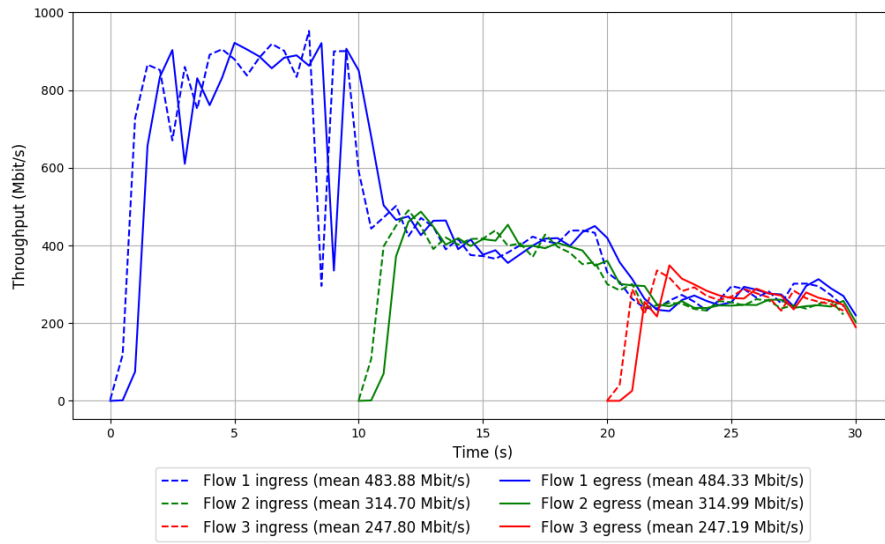
-- Flow 2:

Average throughput: 314.99 Mbit/s  
95th percentile per-packet one-way delay: 66.561 ms  
Loss rate: 0.45%

-- Flow 3:

Average throughput: 247.19 Mbit/s  
95th percentile per-packet one-way delay: 68.818 ms  
Loss rate: 1.45%

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-03 11:19:48  
End at: 2019-10-03 11:20:18  
Local clock offset: -0.099 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-10-03 15:12:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 794.03 Mbit/s  
95th percentile per-packet one-way delay: 83.585 ms  
Loss rate: 0.40%

-- Flow 1:

Average throughput: 504.92 Mbit/s  
95th percentile per-packet one-way delay: 88.929 ms  
Loss rate: 0.20%

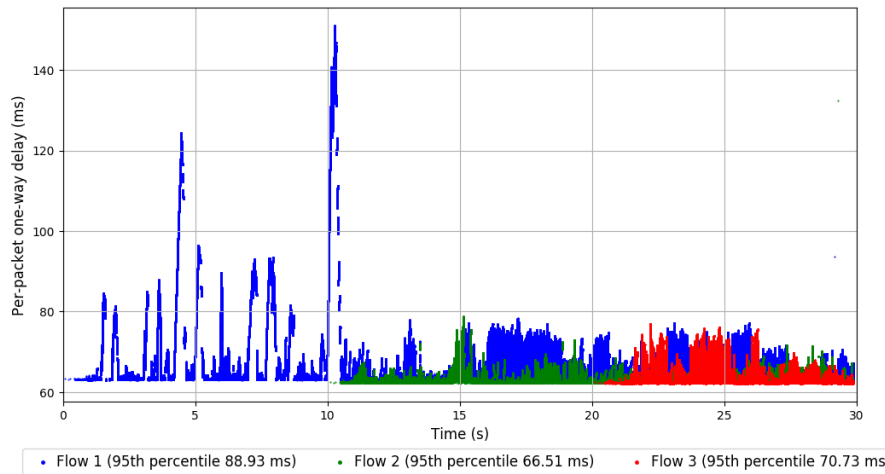
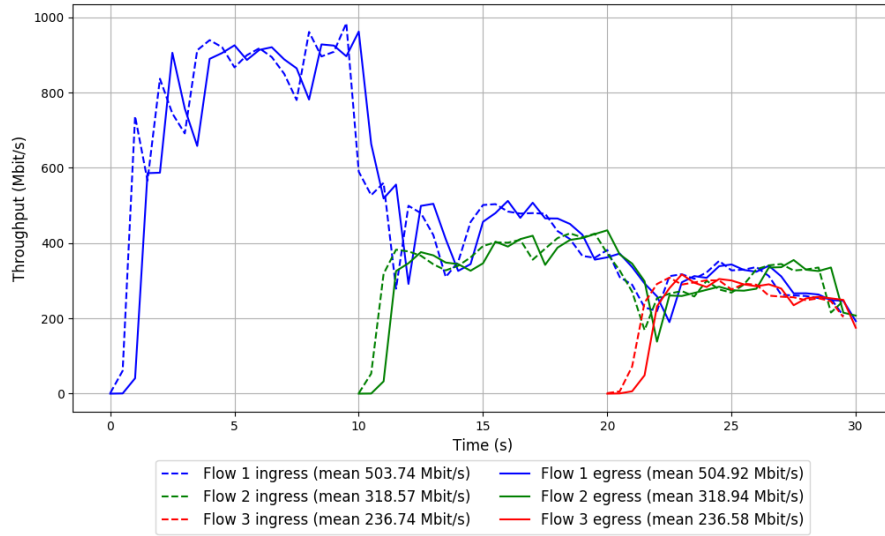
-- Flow 2:

Average throughput: 318.94 Mbit/s  
95th percentile per-packet one-way delay: 66.514 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 236.58 Mbit/s  
95th percentile per-packet one-way delay: 70.731 ms  
Loss rate: 1.17%

# Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 12:00:12  
End at: 2019-10-03 12:00:42  
Local clock offset: -0.091 ms  
Remote clock offset: -0.124 ms

# Below is generated by plot.py at 2019-10-03 15:12:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 748.08 Mbit/s  
95th percentile per-packet one-way delay: 88.899 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 474.63 Mbit/s  
95th percentile per-packet one-way delay: 98.239 ms  
Loss rate: 0.38%

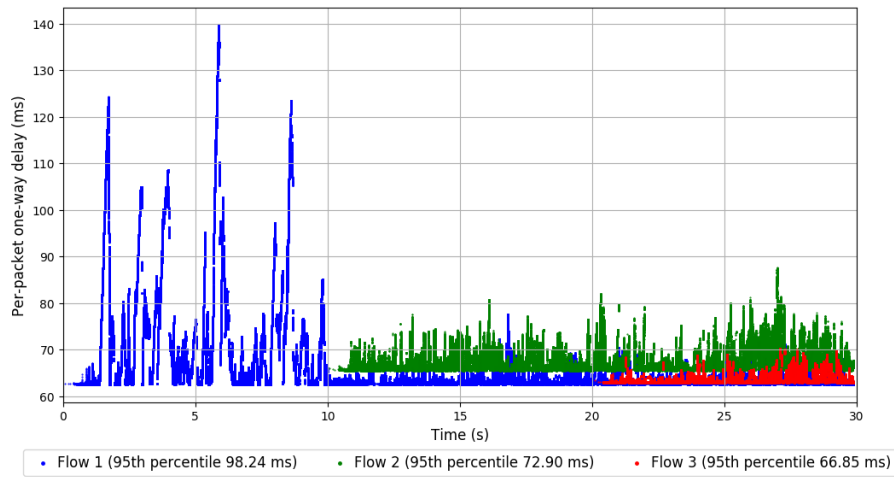
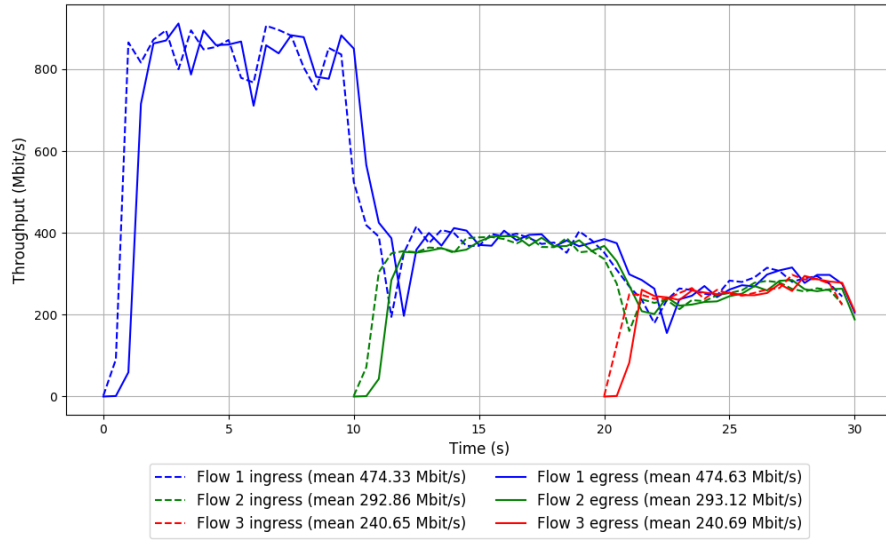
-- Flow 2:

Average throughput: 293.12 Mbit/s  
95th percentile per-packet one-way delay: 72.899 ms  
Loss rate: 0.63%

-- Flow 3:

Average throughput: 240.69 Mbit/s  
95th percentile per-packet one-way delay: 66.851 ms  
Loss rate: 1.09%

## Run 2: Report of FillP-Sheep — Data Link





Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 12:39:52  
End at: 2019-10-03 12:40:22  
Local clock offset: -0.041 ms  
Remote clock offset: -0.089 ms

# Below is generated by plot.py at 2019-10-03 15:12:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 724.12 Mbit/s  
95th percentile per-packet one-way delay: 80.919 ms  
Loss rate: 0.55%

-- Flow 1:

Average throughput: 438.77 Mbit/s  
95th percentile per-packet one-way delay: 91.105 ms  
Loss rate: 0.35%

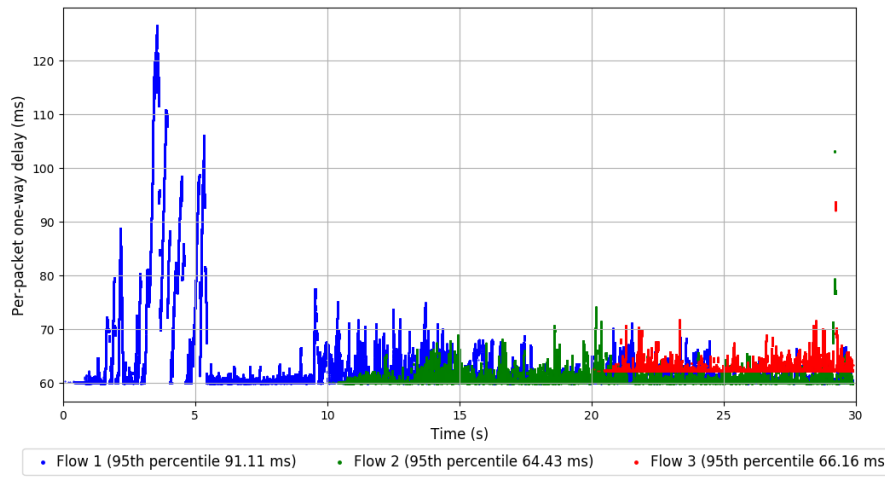
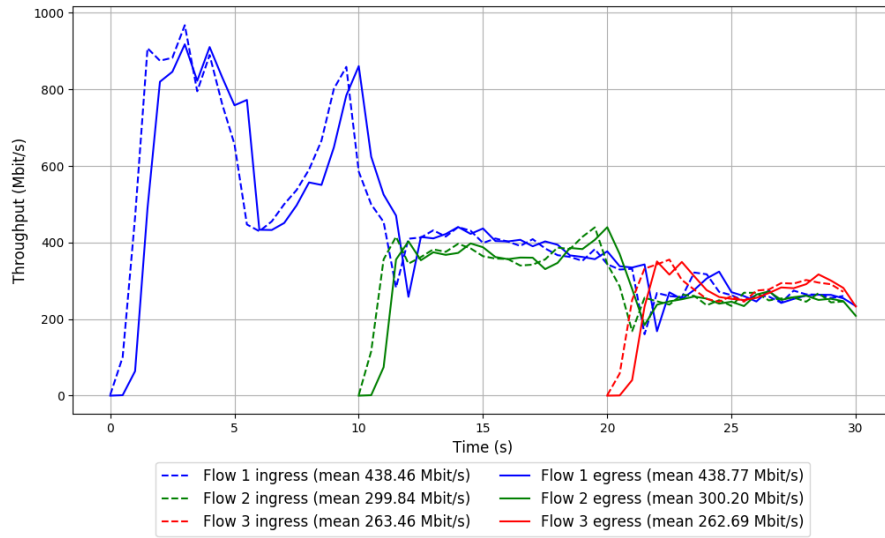
-- Flow 2:

Average throughput: 300.20 Mbit/s  
95th percentile per-packet one-way delay: 64.428 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 262.69 Mbit/s  
95th percentile per-packet one-way delay: 66.158 ms  
Loss rate: 1.40%

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



Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 13:19:36

End at: 2019-10-03 13:20:06

Local clock offset: -0.019 ms

Remote clock offset: 0.035 ms

# Below is generated by plot.py at 2019-10-03 15:15:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 726.84 Mbit/s

95th percentile per-packet one-way delay: 112.364 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 456.24 Mbit/s

95th percentile per-packet one-way delay: 117.131 ms

Loss rate: 1.13%

-- Flow 2:

Average throughput: 275.38 Mbit/s

95th percentile per-packet one-way delay: 66.943 ms

Loss rate: 0.46%

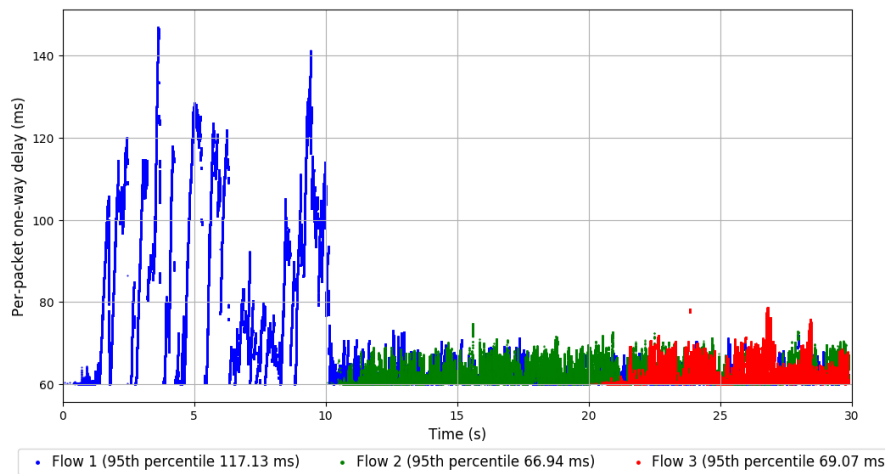
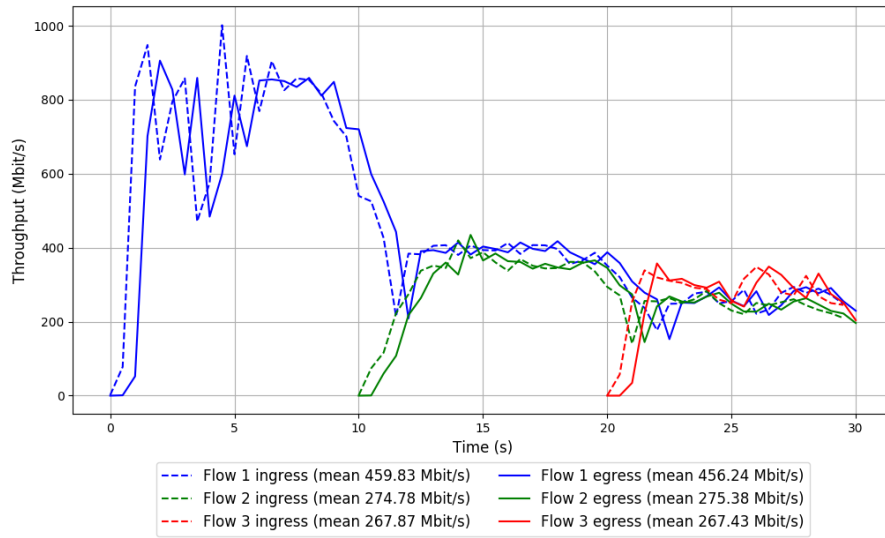
-- Flow 3:

Average throughput: 267.43 Mbit/s

95th percentile per-packet one-way delay: 69.068 ms

Loss rate: 1.34%

### Run 4: Report of FillP-Sheep — Data Link

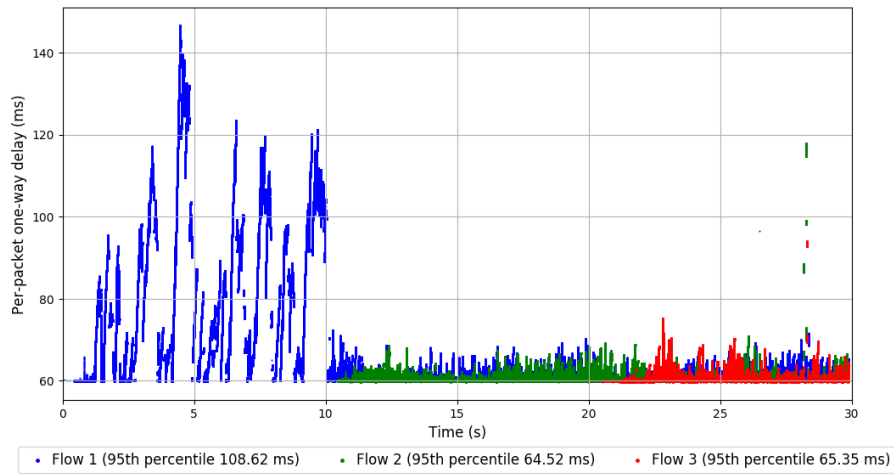
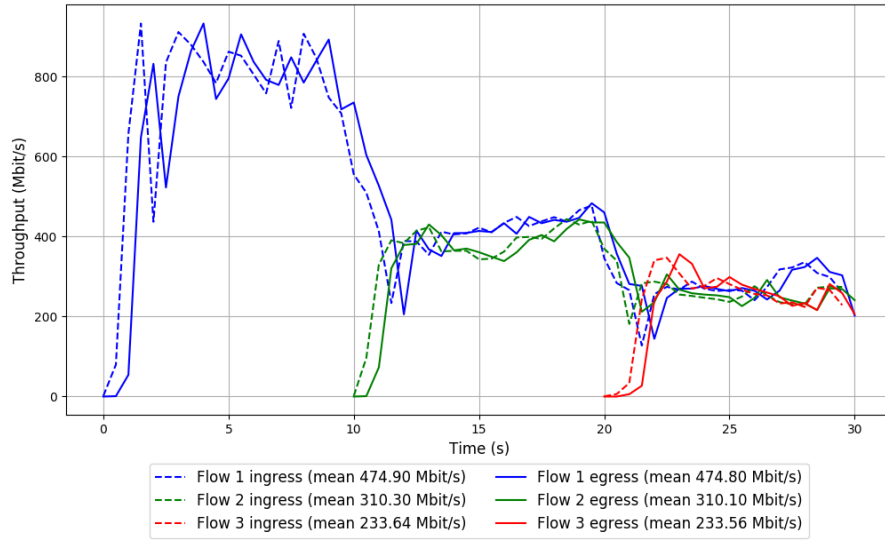


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 13:59:28  
End at: 2019-10-03 13:59:58  
Local clock offset: -0.016 ms  
Remote clock offset: -0.026 ms

```
# Below is generated by plot.py at 2019-10-03 15:25:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 757.28 Mbit/s
95th percentile per-packet one-way delay: 102.845 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 474.80 Mbit/s
95th percentile per-packet one-way delay: 108.619 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 310.10 Mbit/s
95th percentile per-packet one-way delay: 64.516 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 233.56 Mbit/s
95th percentile per-packet one-way delay: 65.350 ms
Loss rate: 1.35%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-03 11:16:23  
End at: 2019-10-03 11:16:53  
Local clock offset: -0.086 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-03 15:25:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 291.00 Mbit/s  
95th percentile per-packet one-way delay: 66.723 ms  
Loss rate: 0.57%

-- Flow 1:

Average throughput: 220.45 Mbit/s  
95th percentile per-packet one-way delay: 66.378 ms  
Loss rate: 0.38%

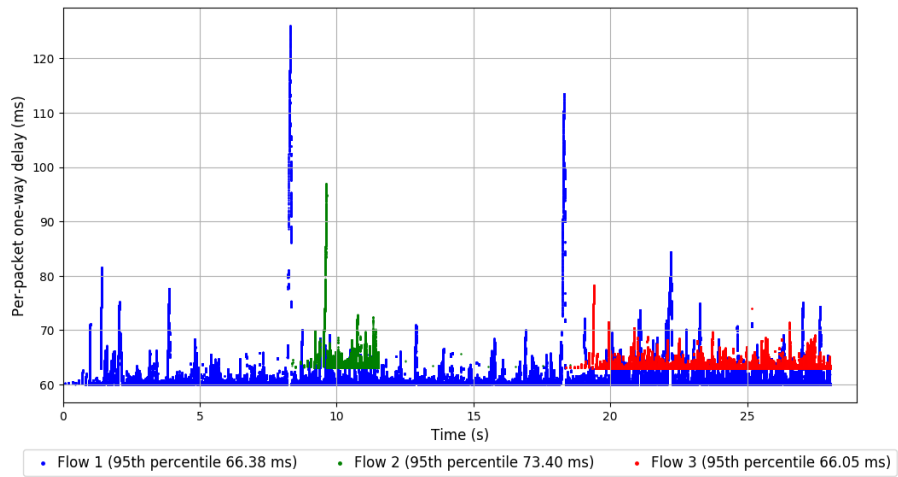
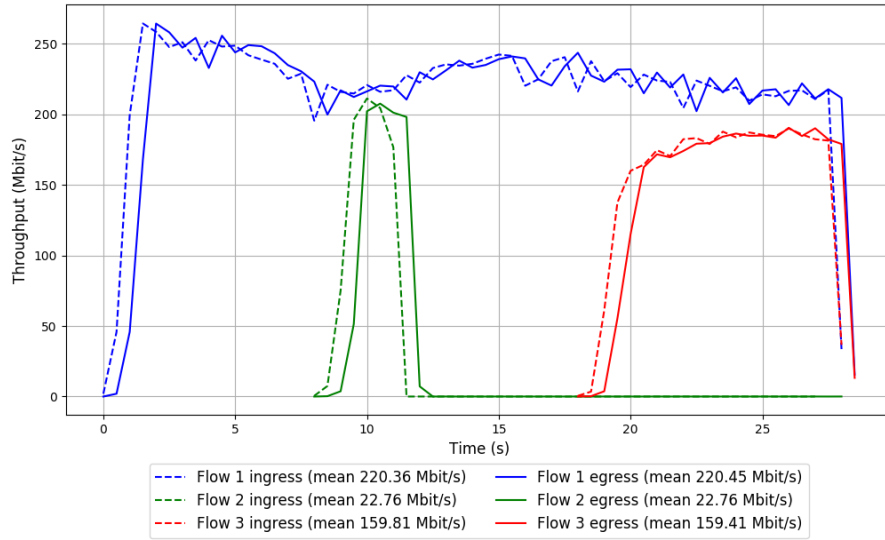
-- Flow 2:

Average throughput: 22.76 Mbit/s  
95th percentile per-packet one-way delay: 73.396 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 159.41 Mbit/s  
95th percentile per-packet one-way delay: 66.054 ms  
Loss rate: 1.50%

# Run 1: Report of Indigo — Data Link



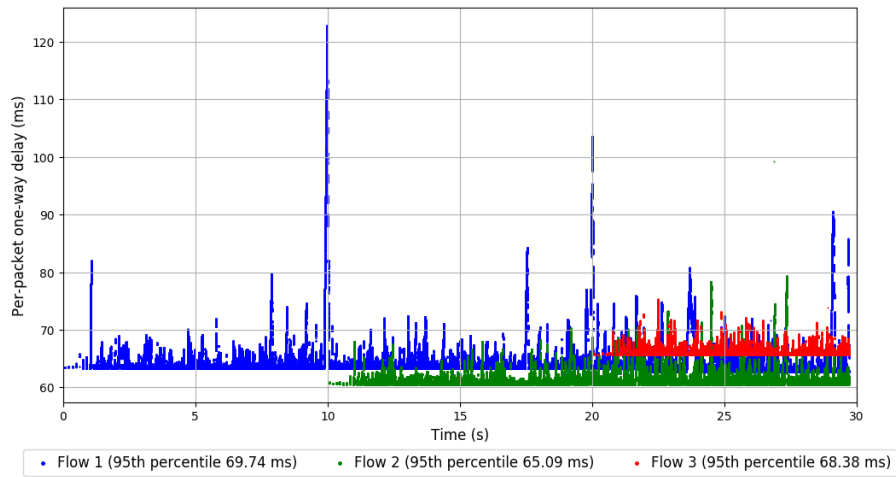
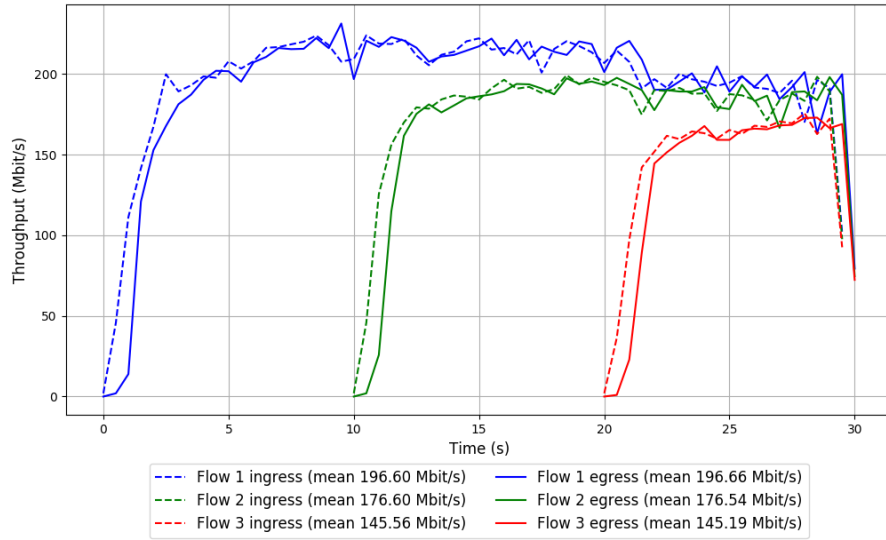


Run 2: Statistics of Indigo

Start at: 2019-10-03 11:56:41  
End at: 2019-10-03 11:57:11  
Local clock offset: -0.088 ms  
Remote clock offset: -0.592 ms

```
# Below is generated by plot.py at 2019-10-03 15:25:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 360.90 Mbit/s
95th percentile per-packet one-way delay: 68.148 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 196.66 Mbit/s
95th percentile per-packet one-way delay: 69.739 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 176.54 Mbit/s
95th percentile per-packet one-way delay: 65.095 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 145.19 Mbit/s
95th percentile per-packet one-way delay: 68.381 ms
Loss rate: 1.54%
```

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 12:36:24  
End at: 2019-10-03 12:36:54  
Local clock offset: -0.056 ms  
Remote clock offset: -0.358 ms

# Below is generated by plot.py at 2019-10-03 15:25:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 353.65 Mbit/s  
95th percentile per-packet one-way delay: 64.245 ms  
Loss rate: 0.65%

-- Flow 1:

Average throughput: 191.52 Mbit/s  
95th percentile per-packet one-way delay: 64.568 ms  
Loss rate: 0.42%

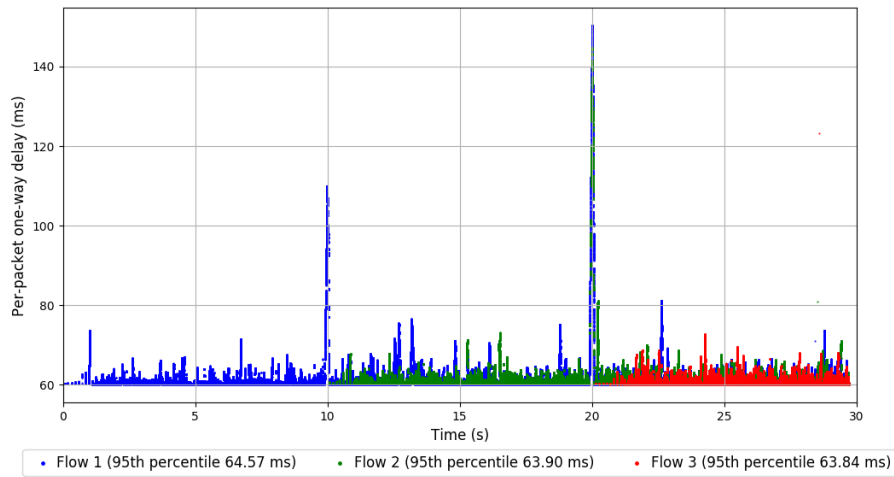
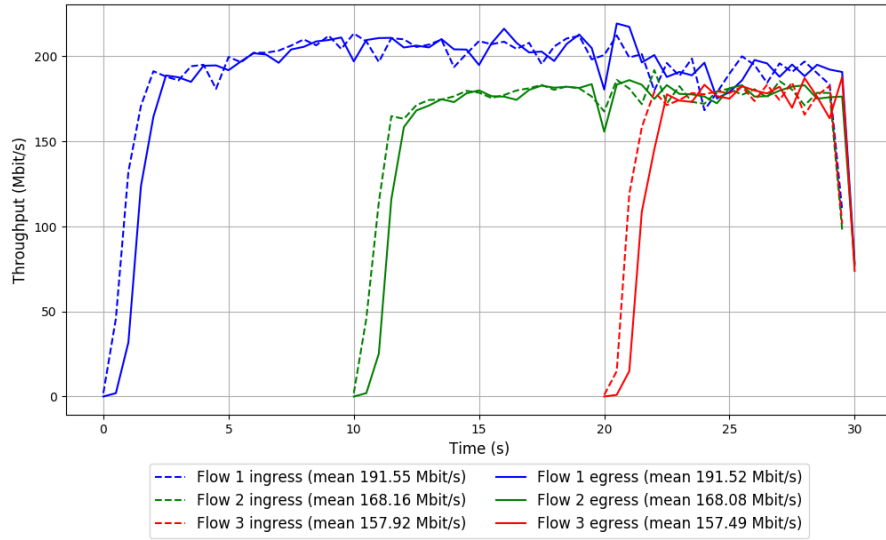
-- Flow 2:

Average throughput: 168.08 Mbit/s  
95th percentile per-packet one-way delay: 63.902 ms  
Loss rate: 0.66%

-- Flow 3:

Average throughput: 157.49 Mbit/s  
95th percentile per-packet one-way delay: 63.843 ms  
Loss rate: 1.51%

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



Run 4: Statistics of Indigo

Start at: 2019-10-03 13:16:01

End at: 2019-10-03 13:16:31

Local clock offset: 0.012 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-10-03 15:25:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 365.79 Mbit/s

95th percentile per-packet one-way delay: 67.090 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 202.55 Mbit/s

95th percentile per-packet one-way delay: 67.833 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 171.66 Mbit/s

95th percentile per-packet one-way delay: 65.988 ms

Loss rate: 0.68%

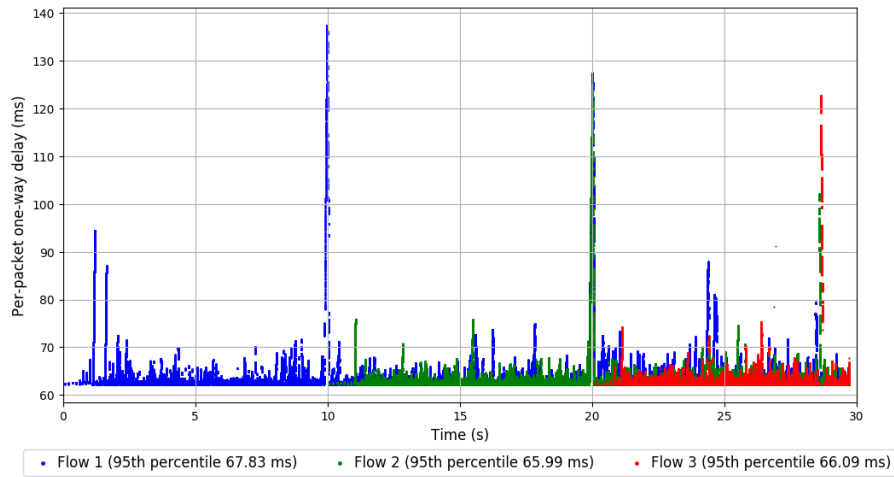
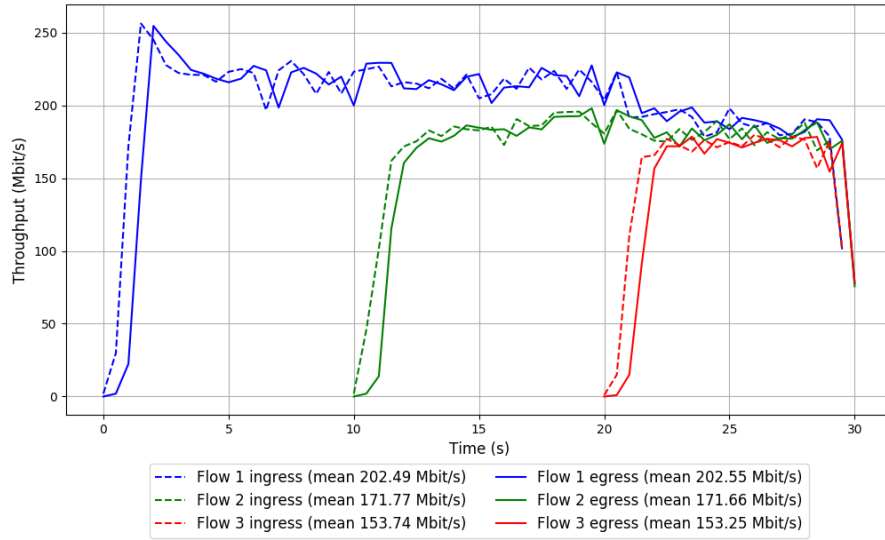
-- Flow 3:

Average throughput: 153.25 Mbit/s

95th percentile per-packet one-way delay: 66.091 ms

Loss rate: 1.57%

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

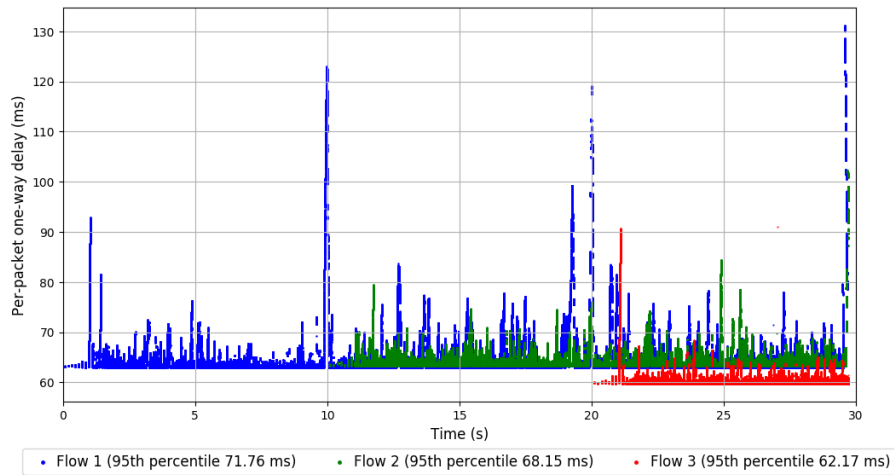
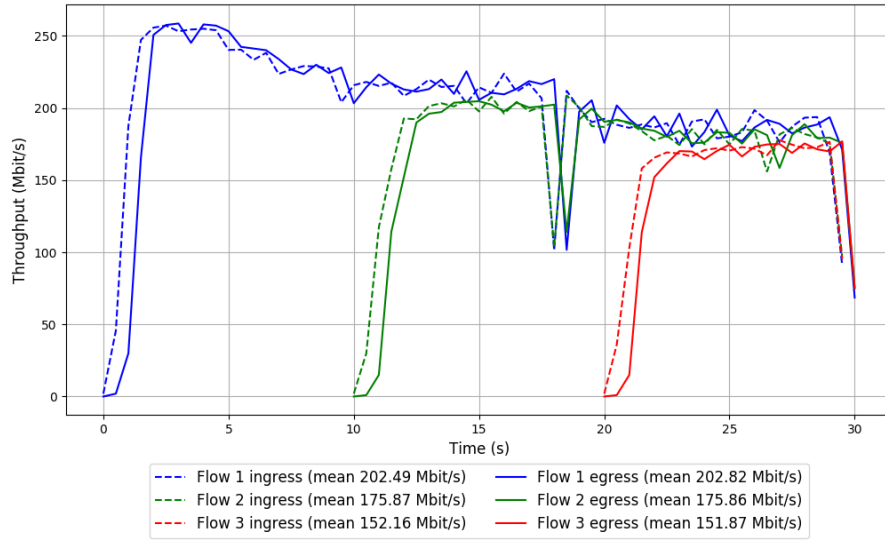


Run 5: Statistics of Indigo

Start at: 2019-10-03 13:55:54  
End at: 2019-10-03 13:56:24  
Local clock offset: -0.018 ms  
Remote clock offset: -0.269 ms

```
# Below is generated by plot.py at 2019-10-03 15:25:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 367.99 Mbit/s
95th percentile per-packet one-way delay: 70.013 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 202.82 Mbit/s
95th percentile per-packet one-way delay: 71.759 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 175.86 Mbit/s
95th percentile per-packet one-way delay: 68.154 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 151.87 Mbit/s
95th percentile per-packet one-way delay: 62.169 ms
Loss rate: 1.45%
```

### Run 5: Report of Indigo — Data Link





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-03 11:18:03

End at: 2019-10-03 11:18:33

Local clock offset: -0.105 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-10-03 15:25:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 676.86 Mbit/s

95th percentile per-packet one-way delay: 83.803 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 397.16 Mbit/s

95th percentile per-packet one-way delay: 80.375 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 342.51 Mbit/s

95th percentile per-packet one-way delay: 90.666 ms

Loss rate: 0.60%

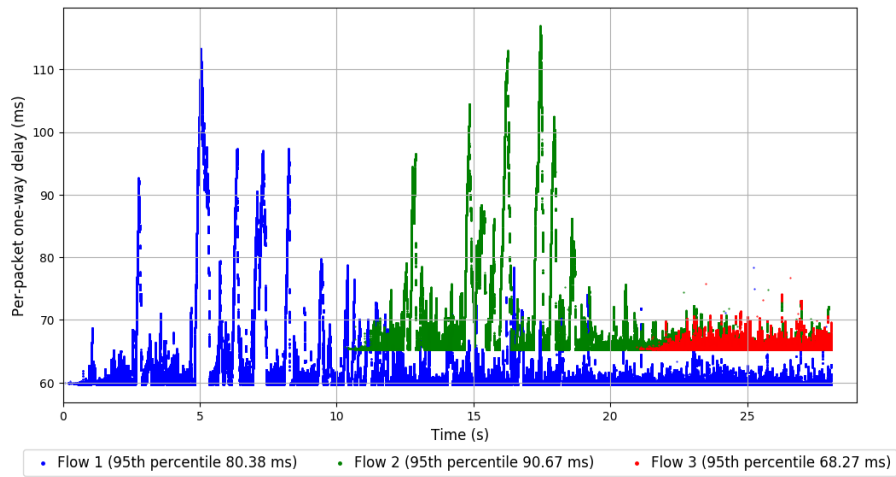
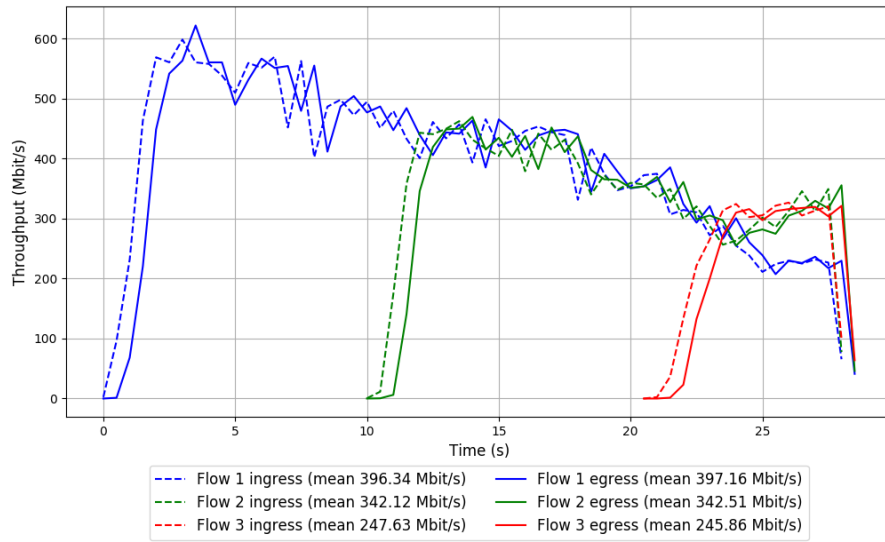
-- Flow 3:

Average throughput: 245.86 Mbit/s

95th percentile per-packet one-way delay: 68.267 ms

Loss rate: 2.39%

### Run 1: Report of Indigo-MusesC3 — Data Link



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-03 11:58:29  
End at: 2019-10-03 11:58:59  
Local clock offset: -0.098 ms  
Remote clock offset: -0.143 ms

# Below is generated by plot.py at 2019-10-03 15:27:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 624.18 Mbit/s  
95th percentile per-packet one-way delay: 78.247 ms  
Loss rate: 0.52%

-- Flow 1:

Average throughput: 381.37 Mbit/s  
95th percentile per-packet one-way delay: 86.706 ms  
Loss rate: 0.23%

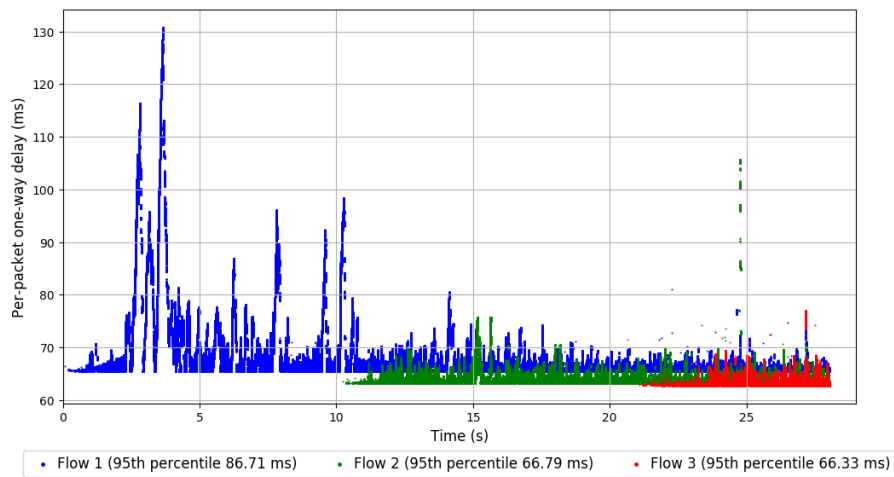
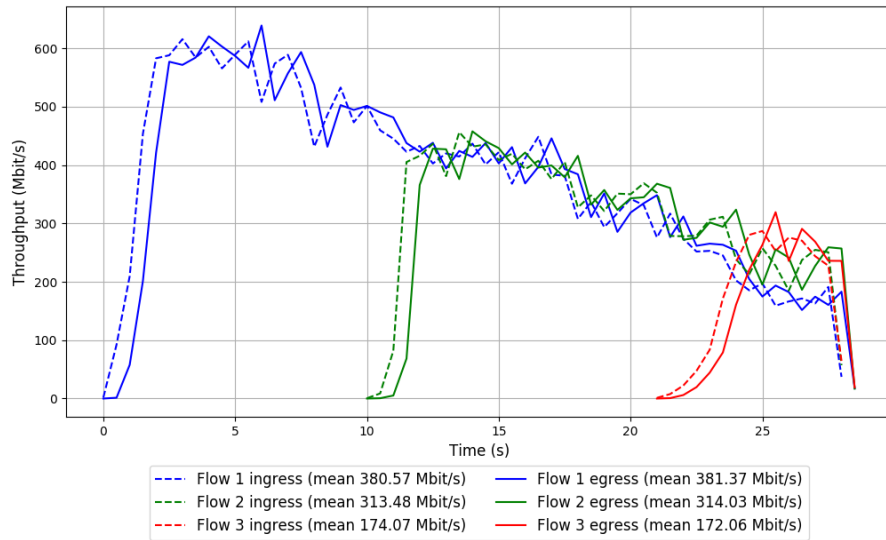
-- Flow 2:

Average throughput: 314.03 Mbit/s  
95th percentile per-packet one-way delay: 66.794 ms  
Loss rate: 0.57%

-- Flow 3:

Average throughput: 172.06 Mbit/s  
95th percentile per-packet one-way delay: 66.327 ms  
Loss rate: 2.84%

## Run 2: Report of Indigo-MusesC3 — Data Link



Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 12:38:11

End at: 2019-10-03 12:38:41

Local clock offset: -0.014 ms

Remote clock offset: 0.121 ms

# Below is generated by plot.py at 2019-10-03 15:30:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 576.03 Mbit/s

95th percentile per-packet one-way delay: 91.637 ms

Loss rate: 0.67%

-- Flow 1:

Average throughput: 337.12 Mbit/s

95th percentile per-packet one-way delay: 86.333 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 292.55 Mbit/s

95th percentile per-packet one-way delay: 107.611 ms

Loss rate: 0.84%

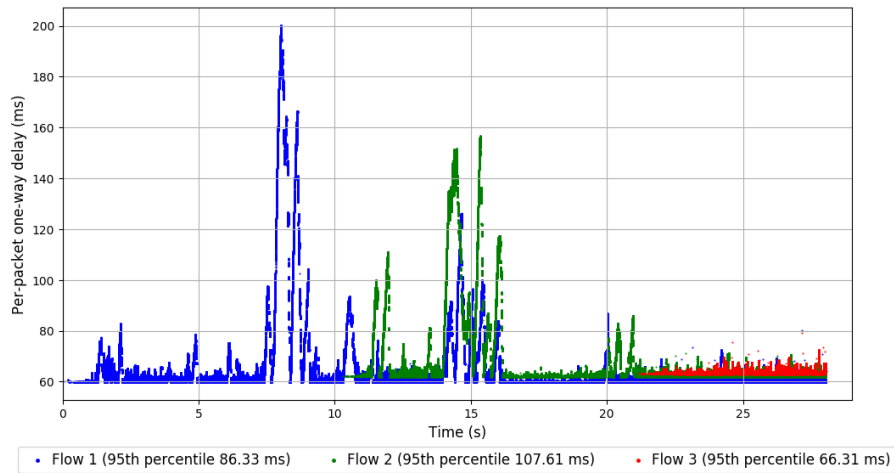
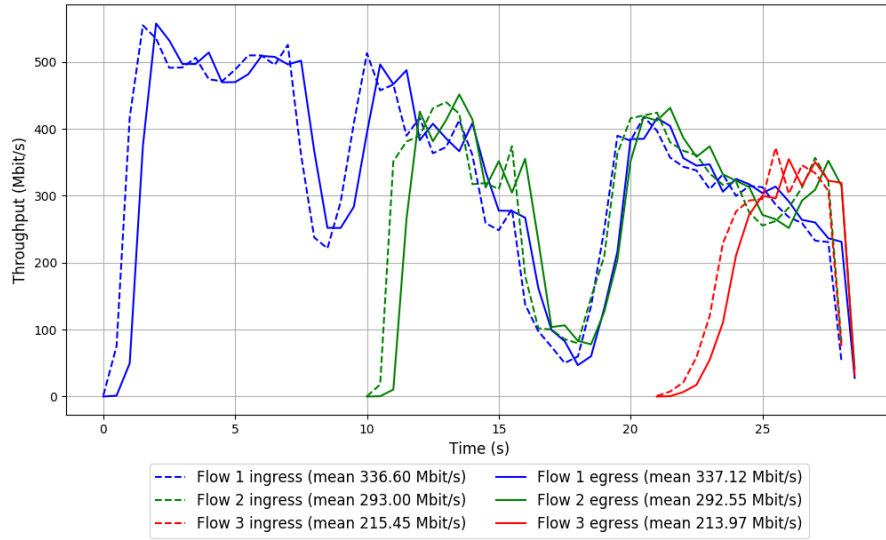
-- Flow 3:

Average throughput: 213.97 Mbit/s

95th percentile per-packet one-way delay: 66.309 ms

Loss rate: 2.46%

### Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 13:17:50  
End at: 2019-10-03 13:18:20  
Local clock offset: -0.026 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-10-03 15:35:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 678.04 Mbit/s  
95th percentile per-packet one-way delay: 81.221 ms  
Loss rate: 0.65%

-- Flow 1:

Average throughput: 397.90 Mbit/s  
95th percentile per-packet one-way delay: 86.782 ms  
Loss rate: 0.32%

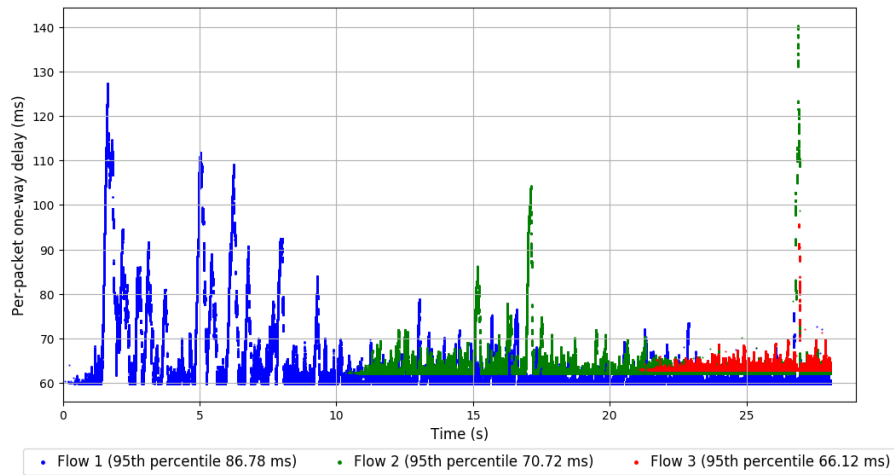
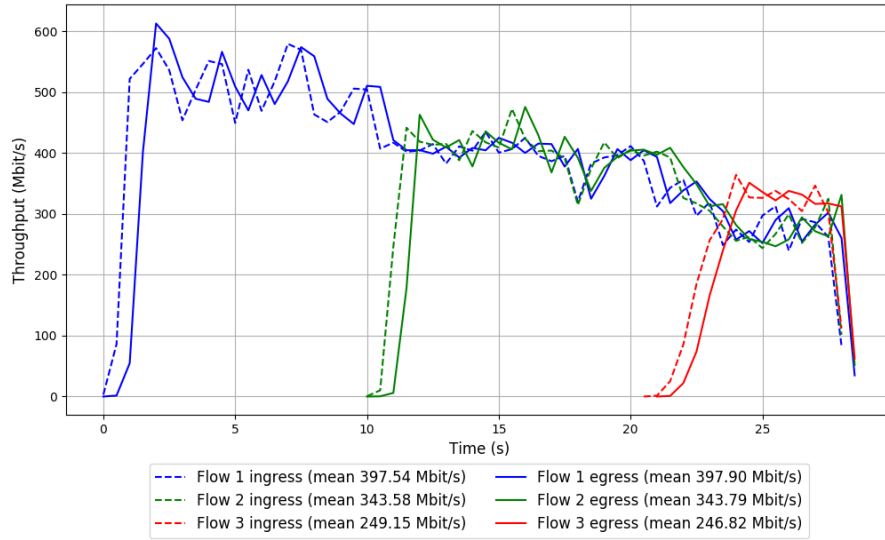
-- Flow 2:

Average throughput: 343.79 Mbit/s  
95th percentile per-packet one-way delay: 70.723 ms  
Loss rate: 0.66%

-- Flow 3:

Average throughput: 246.82 Mbit/s  
95th percentile per-packet one-way delay: 66.117 ms  
Loss rate: 2.64%

### Run 4: Report of Indigo-MusesC3 — Data Link





Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 13:57:42  
End at: 2019-10-03 13:58:12  
Local clock offset: -0.008 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-10-03 15:35:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 677.40 Mbit/s  
95th percentile per-packet one-way delay: 92.523 ms  
Loss rate: 0.57%

-- Flow 1:

Average throughput: 402.69 Mbit/s  
95th percentile per-packet one-way delay: 97.833 ms  
Loss rate: 0.32%

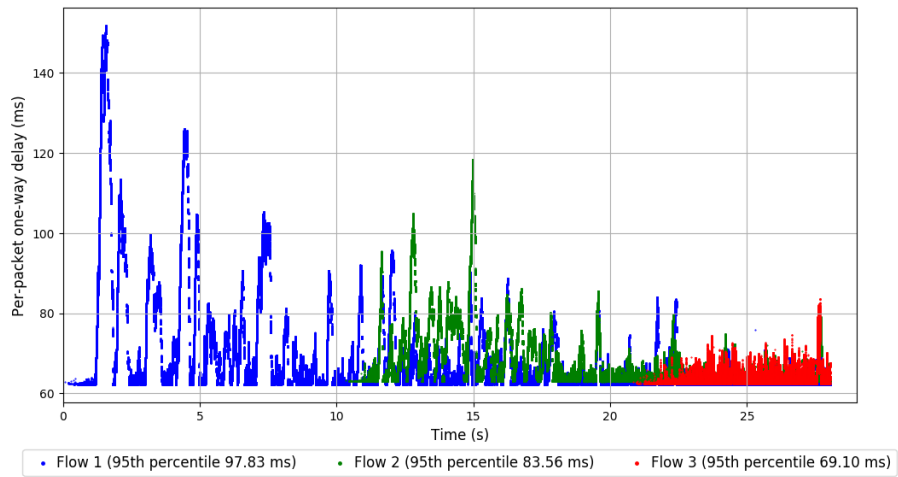
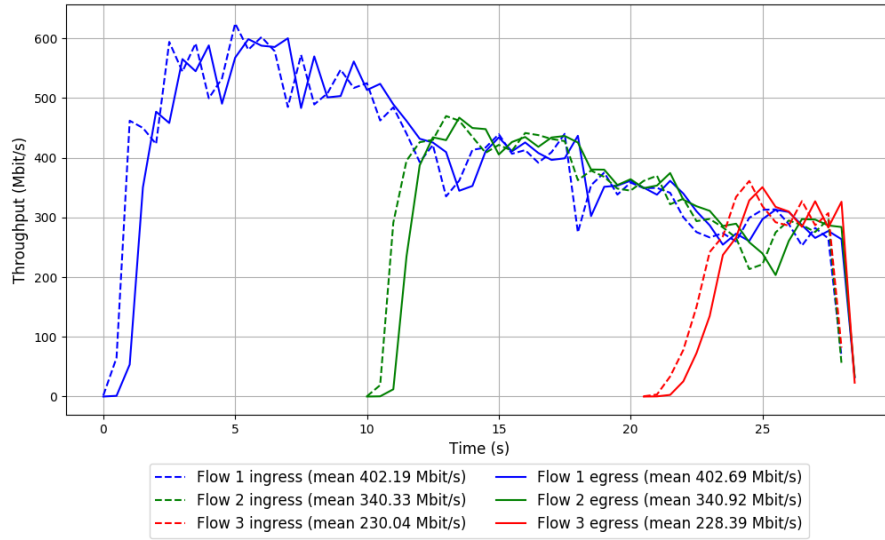
-- Flow 2:

Average throughput: 340.92 Mbit/s  
95th percentile per-packet one-way delay: 83.564 ms  
Loss rate: 0.52%

-- Flow 3:

Average throughput: 228.39 Mbit/s  
95th percentile per-packet one-way delay: 69.099 ms  
Loss rate: 2.44%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-03 11:01:26

End at: 2019-10-03 11:01:56

Local clock offset: -0.095 ms

Remote clock offset: 0.255 ms

# Below is generated by plot.py at 2019-10-03 15:36:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 653.11 Mbit/s

95th percentile per-packet one-way delay: 96.755 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 392.72 Mbit/s

95th percentile per-packet one-way delay: 105.927 ms

Loss rate: 0.32%

-- Flow 2:

Average throughput: 285.12 Mbit/s

95th percentile per-packet one-way delay: 77.053 ms

Loss rate: 0.42%

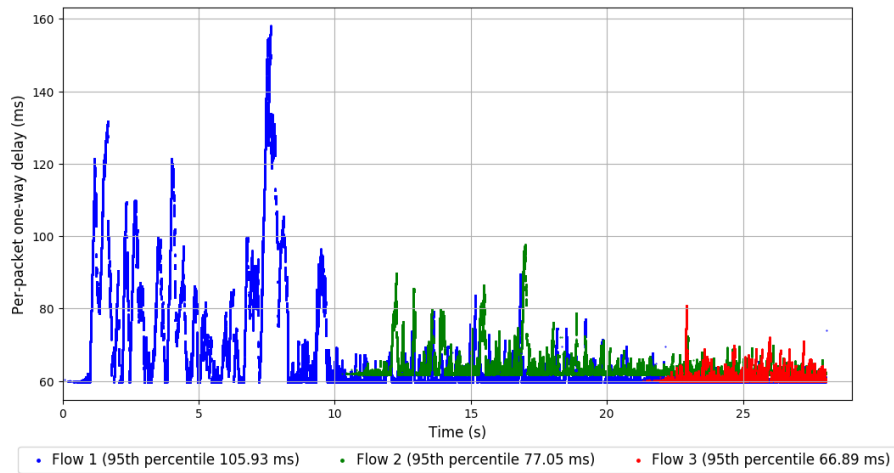
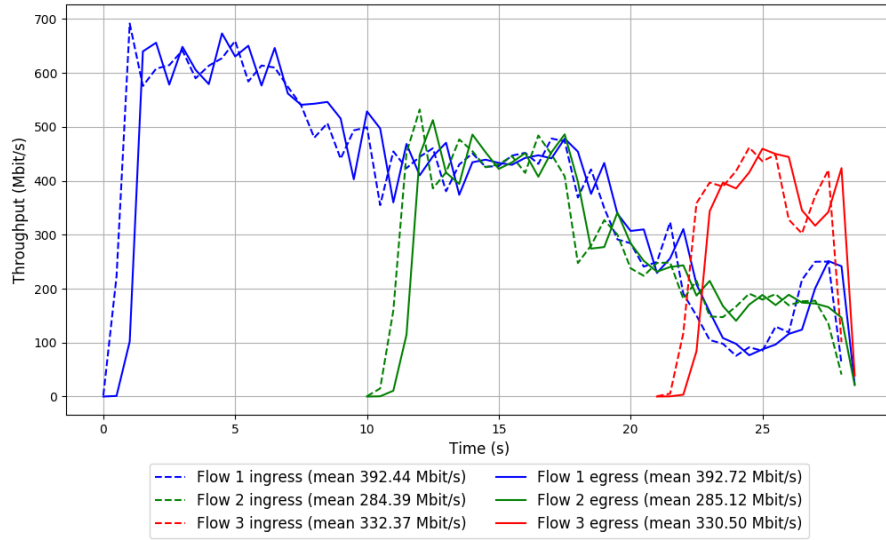
-- Flow 3:

Average throughput: 330.50 Mbit/s

95th percentile per-packet one-way delay: 66.888 ms

Loss rate: 2.33%

### Run 1: Report of Indigo-MusesC5 — Data Link

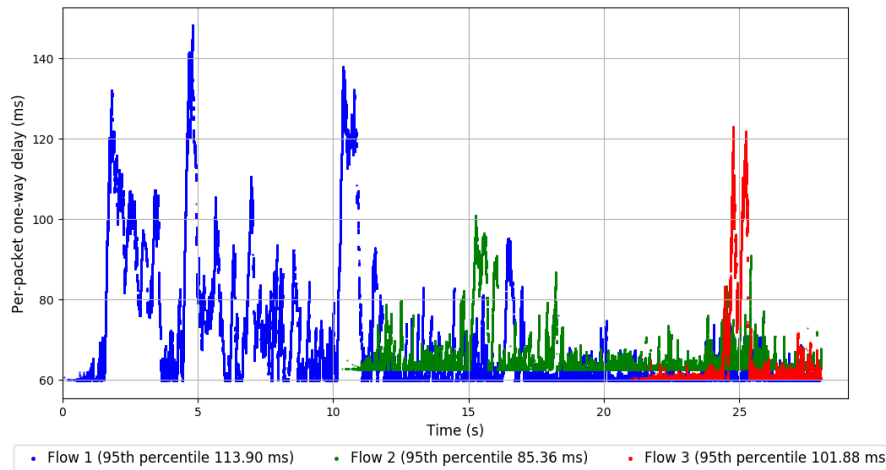
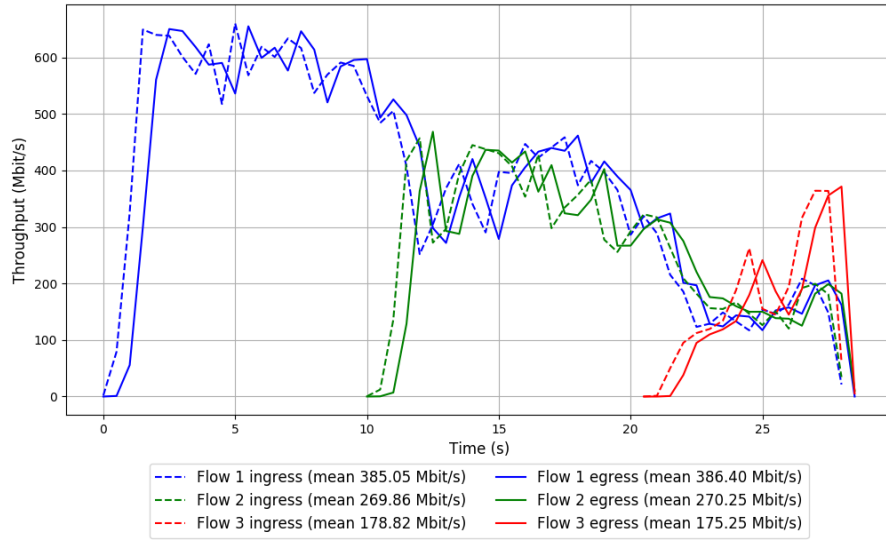


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-03 11:41:37  
End at: 2019-10-03 11:42:07  
Local clock offset: -0.105 ms  
Remote clock offset: -0.201 ms

```
# Below is generated by plot.py at 2019-10-03 15:36:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 601.40 Mbit/s
95th percentile per-packet one-way delay: 105.584 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 386.40 Mbit/s
95th percentile per-packet one-way delay: 113.900 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 270.25 Mbit/s
95th percentile per-packet one-way delay: 85.356 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 175.25 Mbit/s
95th percentile per-packet one-way delay: 101.879 ms
Loss rate: 3.62%
```

## Run 2: Report of Indigo-MusesC5 — Data Link



Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 12:21:43

End at: 2019-10-03 12:22:13

Local clock offset: -0.075 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-10-03 15:36:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 660.31 Mbit/s

95th percentile per-packet one-way delay: 92.436 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 391.17 Mbit/s

95th percentile per-packet one-way delay: 95.198 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 383.04 Mbit/s

95th percentile per-packet one-way delay: 80.841 ms

Loss rate: 0.71%

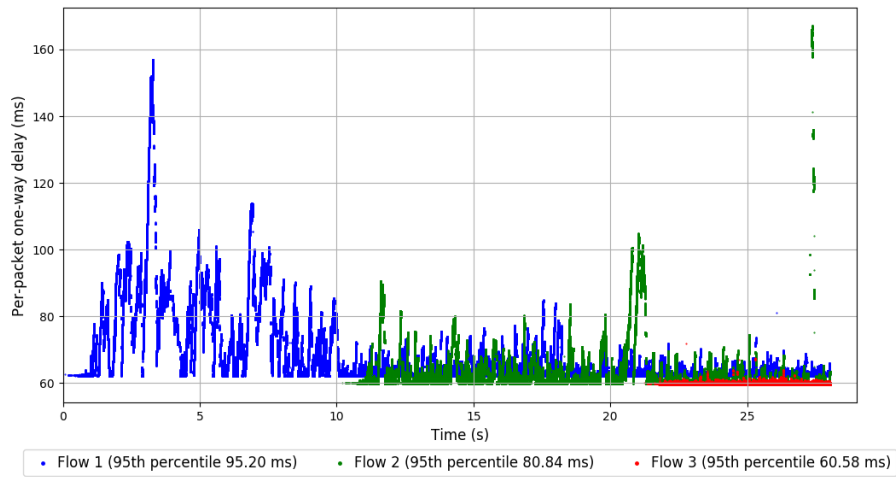
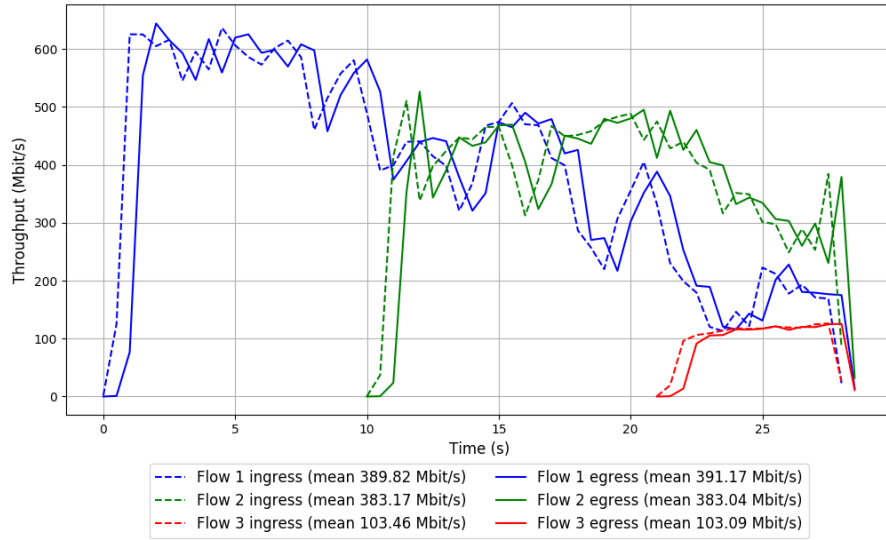
-- Flow 3:

Average throughput: 103.09 Mbit/s

95th percentile per-packet one-way delay: 60.581 ms

Loss rate: 2.11%

### Run 3: Report of Indigo-MusesC5 — Data Link



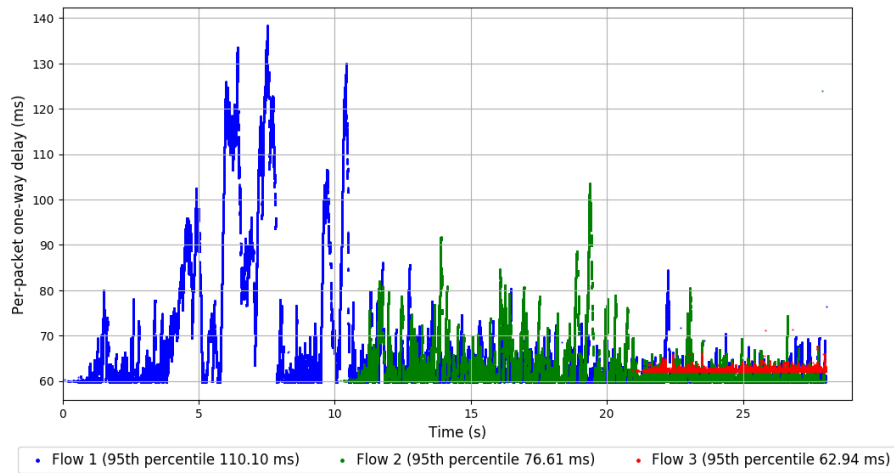
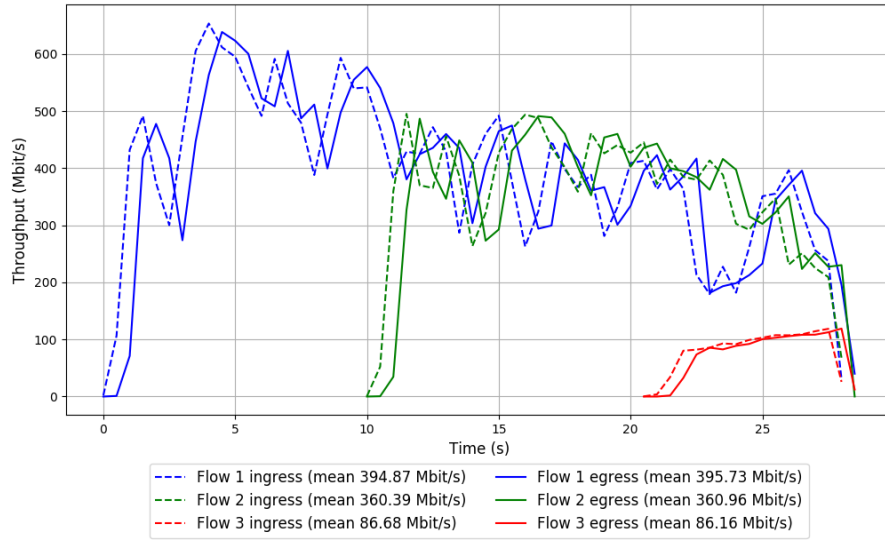


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 13:01:01  
End at: 2019-10-03 13:01:31  
Local clock offset: -0.055 ms  
Remote clock offset: -0.021 ms

```
# Below is generated by plot.py at 2019-10-03 15:37:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 647.54 Mbit/s
95th percentile per-packet one-way delay: 96.658 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 395.73 Mbit/s
95th percentile per-packet one-way delay: 110.101 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 360.96 Mbit/s
95th percentile per-packet one-way delay: 76.611 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 62.940 ms
Loss rate: 2.28%
```

### Run 4: Report of Indigo-MusesC5 — Data Link

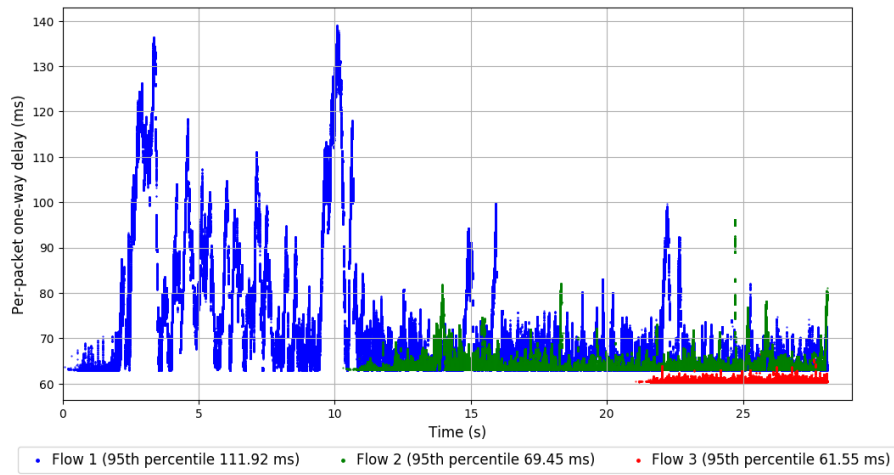
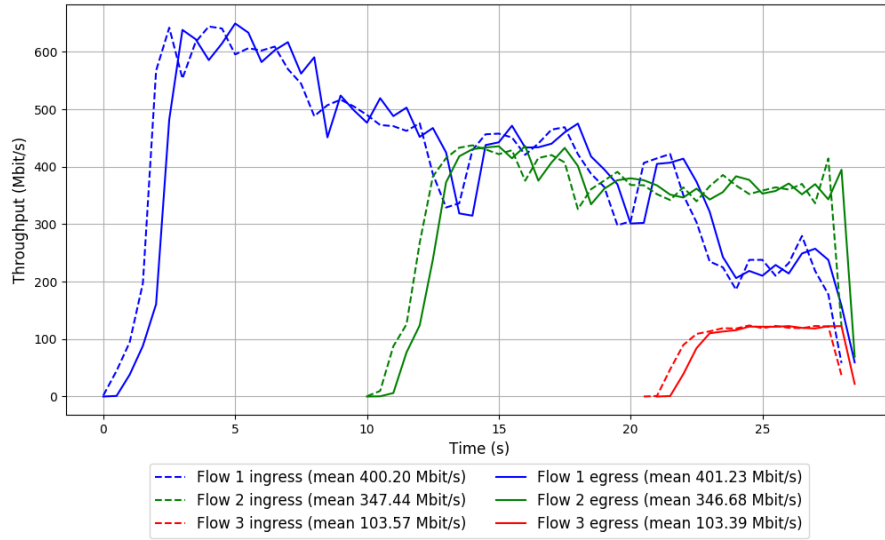


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 13:40:48  
End at: 2019-10-03 13:41:18  
Local clock offset: -0.054 ms  
Remote clock offset: -0.755 ms

```
# Below is generated by plot.py at 2019-10-03 15:39:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 647.16 Mbit/s
95th percentile per-packet one-way delay: 102.894 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 401.23 Mbit/s
95th percentile per-packet one-way delay: 111.924 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 346.68 Mbit/s
95th percentile per-packet one-way delay: 69.453 ms
Loss rate: 0.92%
-- Flow 3:
Average throughput: 103.39 Mbit/s
95th percentile per-packet one-way delay: 61.548 ms
Loss rate: 1.94%
```

### Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-03 11:04:55  
End at: 2019-10-03 11:05:25  
Local clock offset: -0.076 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-10-03 15:41:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 622.80 Mbit/s  
95th percentile per-packet one-way delay: 71.059 ms  
Loss rate: 0.60%

-- Flow 1:

Average throughput: 375.66 Mbit/s  
95th percentile per-packet one-way delay: 73.078 ms  
Loss rate: 0.31%

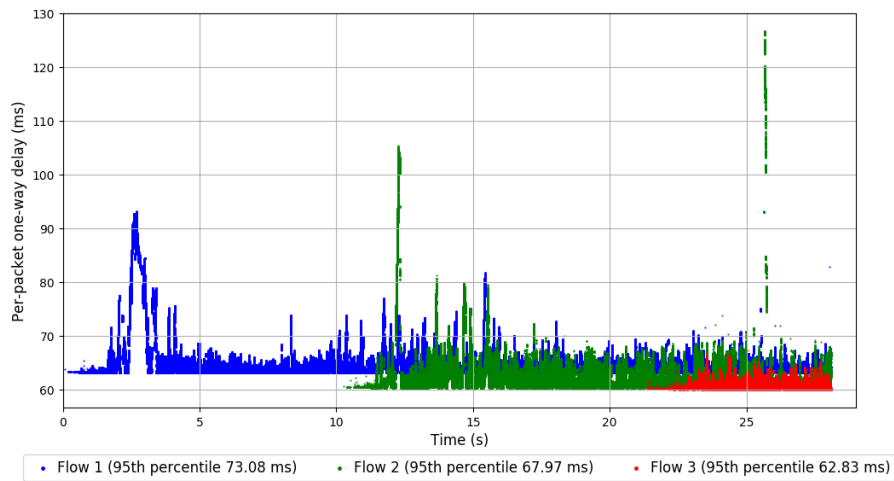
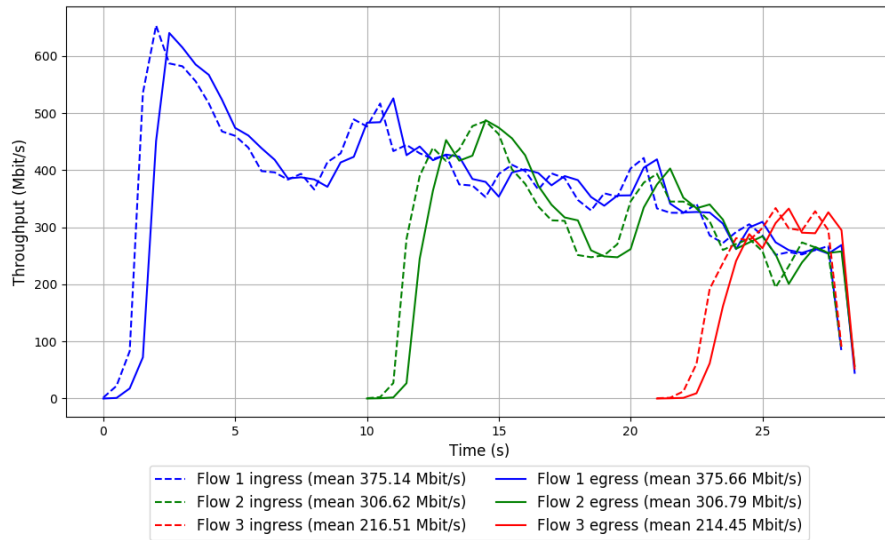
-- Flow 2:

Average throughput: 306.79 Mbit/s  
95th percentile per-packet one-way delay: 67.971 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 214.45 Mbit/s  
95th percentile per-packet one-way delay: 62.831 ms  
Loss rate: 2.68%

# Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-03 11:45:04  
End at: 2019-10-03 11:45:34  
Local clock offset: -0.1 ms  
Remote clock offset: -0.261 ms

# Below is generated by plot.py at 2019-10-03 15:47:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 675.51 Mbit/s  
95th percentile per-packet one-way delay: 82.878 ms  
Loss rate: 0.53%

-- Flow 1:

Average throughput: 409.56 Mbit/s  
95th percentile per-packet one-way delay: 89.317 ms  
Loss rate: 0.35%

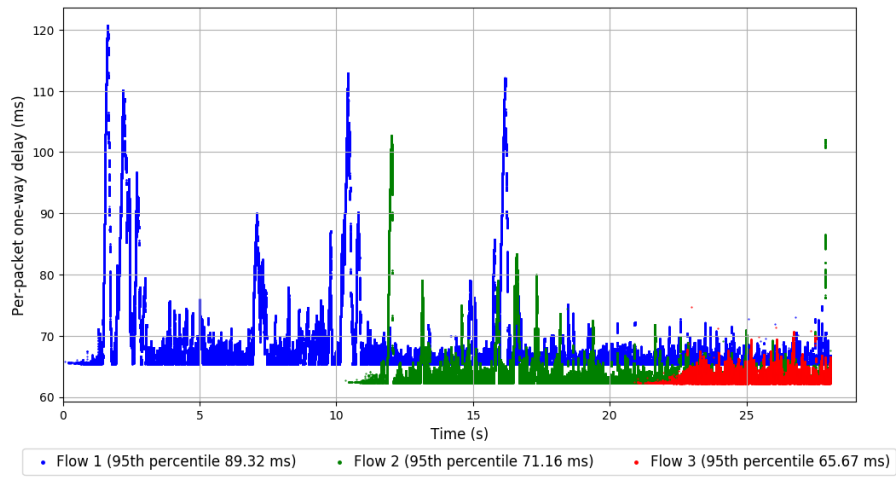
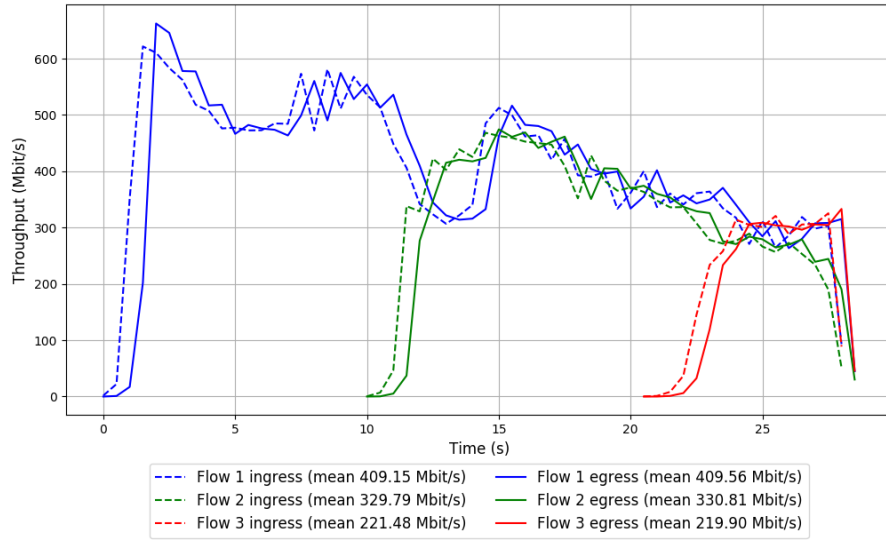
-- Flow 2:

Average throughput: 330.81 Mbit/s  
95th percentile per-packet one-way delay: 71.164 ms  
Loss rate: 0.35%

-- Flow 3:

Average throughput: 219.90 Mbit/s  
95th percentile per-packet one-way delay: 65.665 ms  
Loss rate: 2.42%

## Run 2: Report of Indigo-MusesD — Data Link





Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 12:25:13  
End at: 2019-10-03 12:25:43  
Local clock offset: -0.056 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-10-03 15:47:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 620.15 Mbit/s  
95th percentile per-packet one-way delay: 79.718 ms  
Loss rate: 0.61%

-- Flow 1:

Average throughput: 355.96 Mbit/s  
95th percentile per-packet one-way delay: 83.281 ms  
Loss rate: 0.38%

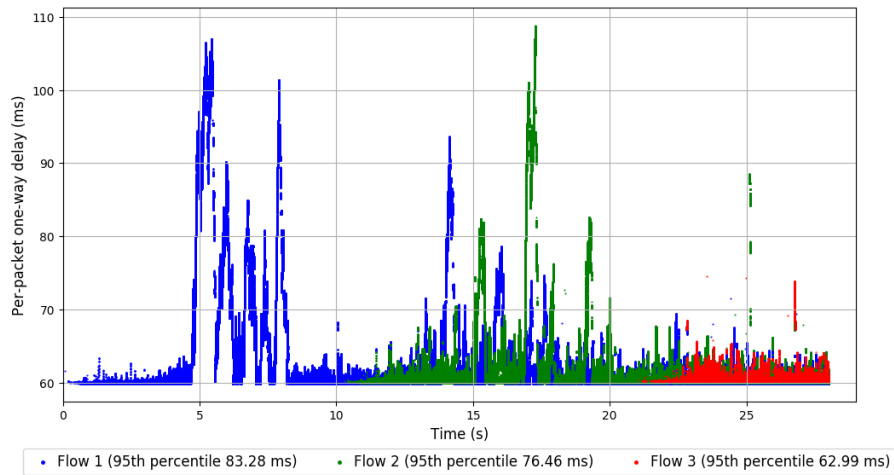
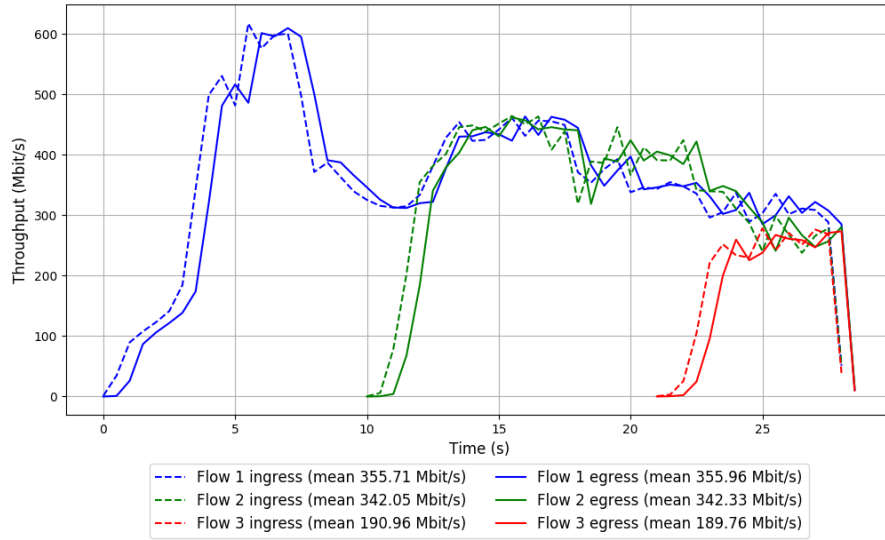
-- Flow 2:

Average throughput: 342.33 Mbit/s  
95th percentile per-packet one-way delay: 76.457 ms  
Loss rate: 0.60%

-- Flow 3:

Average throughput: 189.76 Mbit/s  
95th percentile per-packet one-way delay: 62.995 ms  
Loss rate: 2.33%

### Run 3: Report of Indigo-MusesD — Data Link

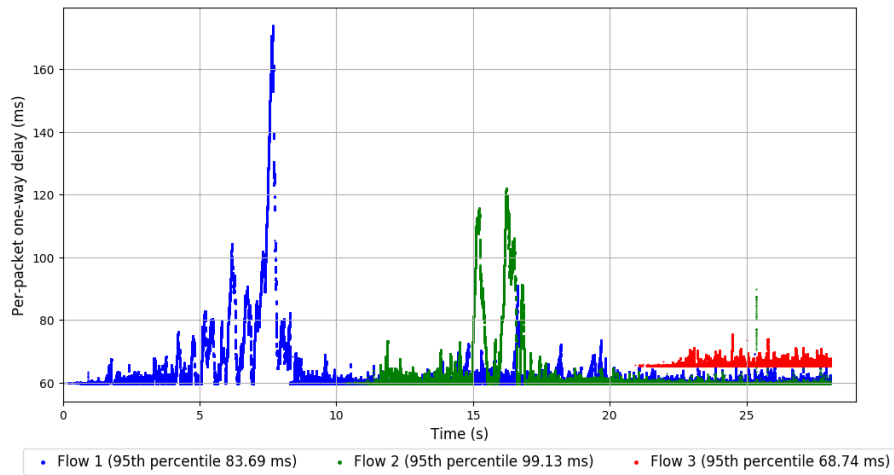
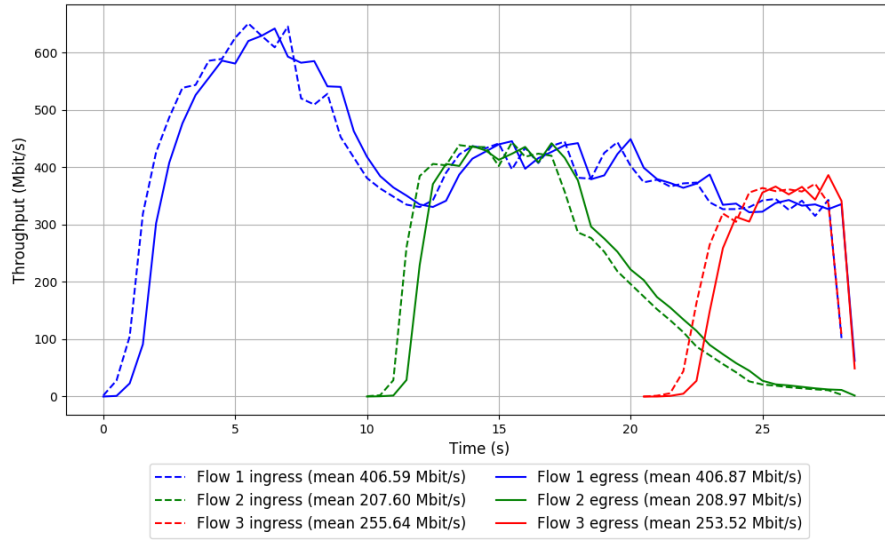


Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 13:04:31  
End at: 2019-10-03 13:05:01  
Local clock offset: -0.016 ms  
Remote clock offset: -0.204 ms

```
# Below is generated by plot.py at 2019-10-03 15:47:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 604.19 Mbit/s
95th percentile per-packet one-way delay: 86.185 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 406.87 Mbit/s
95th percentile per-packet one-way delay: 83.688 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 208.97 Mbit/s
95th percentile per-packet one-way delay: 99.126 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 253.52 Mbit/s
95th percentile per-packet one-way delay: 68.743 ms
Loss rate: 2.60%
```

Run 4: Report of Indigo-MusesD — Data Link

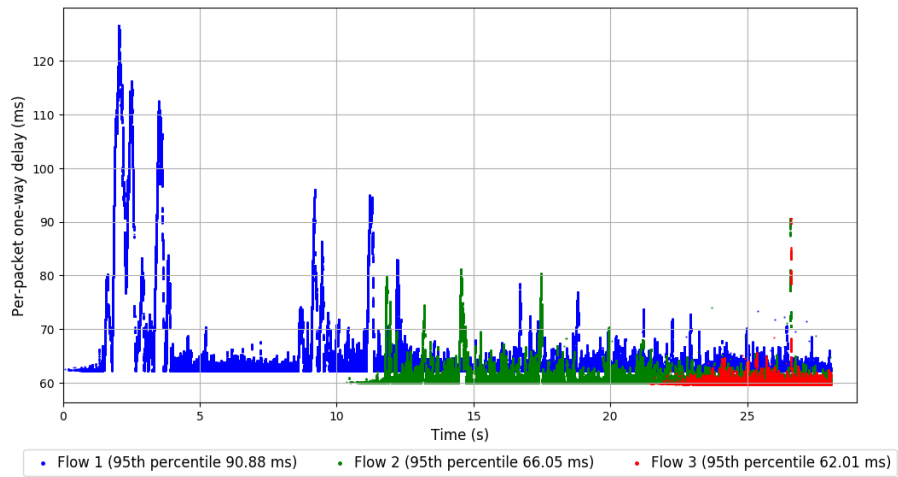
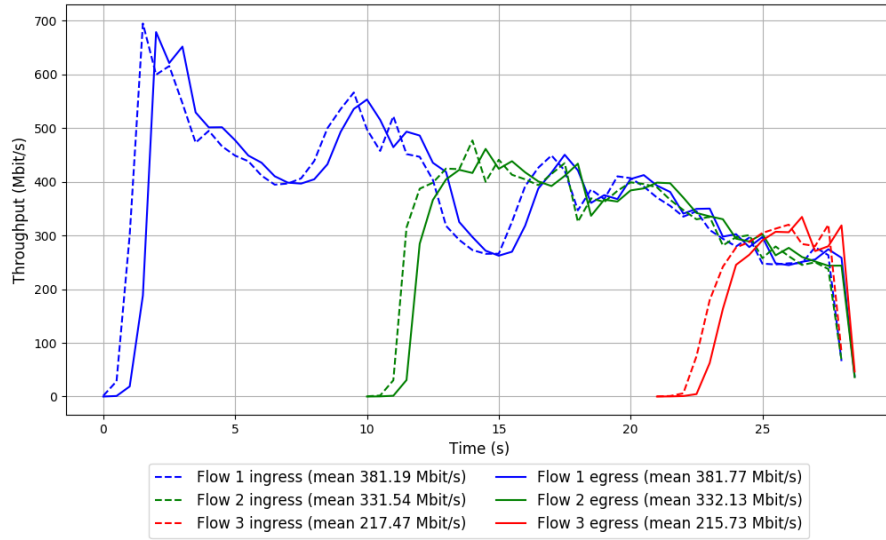


Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 13:44:18  
End at: 2019-10-03 13:44:48  
Local clock offset: -0.014 ms  
Remote clock offset: -0.245 ms

```
# Below is generated by plot.py at 2019-10-03 15:47:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 643.64 Mbit/s
95th percentile per-packet one-way delay: 78.987 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 381.77 Mbit/s
95th percentile per-packet one-way delay: 90.881 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 332.13 Mbit/s
95th percentile per-packet one-way delay: 66.051 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 215.73 Mbit/s
95th percentile per-packet one-way delay: 62.006 ms
Loss rate: 2.63%
```

Run 5: Report of Indigo-MusesD — Data Link

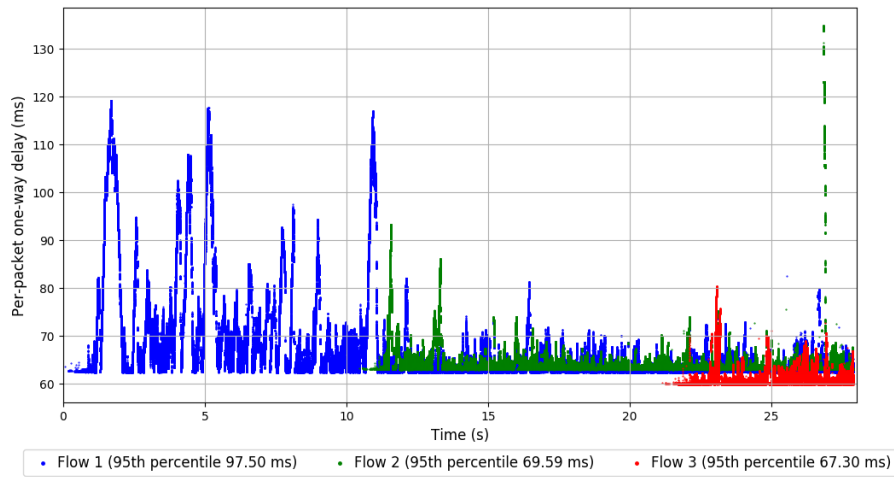
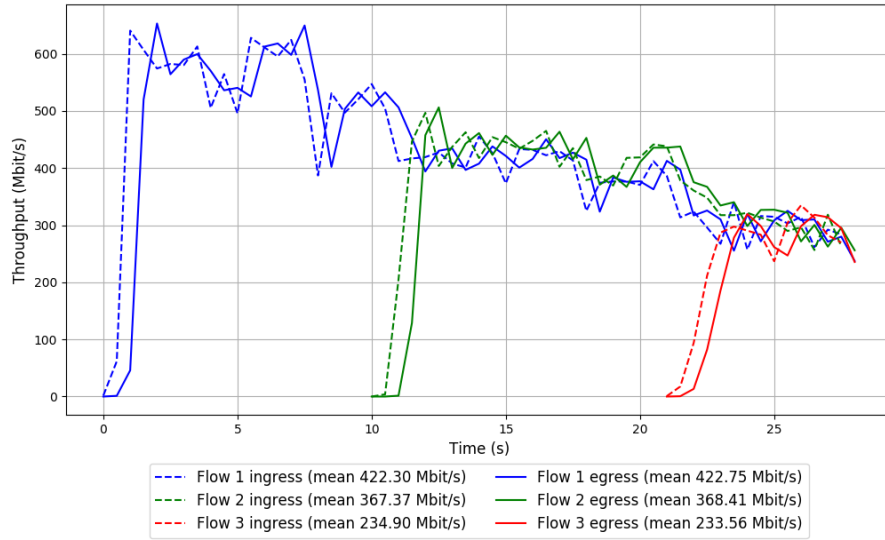


Run 1: Statistics of Indigo-MuseST

Start at: 2019-10-03 10:46:42  
End at: 2019-10-03 10:47:12  
Local clock offset: -0.065 ms  
Remote clock offset: -0.079 ms

```
# Below is generated by plot.py at 2019-10-03 15:50:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 710.01 Mbit/s
95th percentile per-packet one-way delay: 87.465 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 422.75 Mbit/s
95th percentile per-packet one-way delay: 97.496 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 368.41 Mbit/s
95th percentile per-packet one-way delay: 69.591 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 233.56 Mbit/s
95th percentile per-packet one-way delay: 67.300 ms
Loss rate: 2.37%
```

# Run 1: Report of Indigo-MusesT — Data Link





Run 2: Statistics of Indigo-MuseST

Start at: 2019-10-03 11:26:34  
End at: 2019-10-03 11:27:04  
Local clock offset: -0.116 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-10-03 15:50:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 722.58 Mbit/s  
95th percentile per-packet one-way delay: 81.781 ms  
Loss rate: 0.60%

-- Flow 1:

Average throughput: 438.15 Mbit/s  
95th percentile per-packet one-way delay: 78.686 ms  
Loss rate: 0.36%

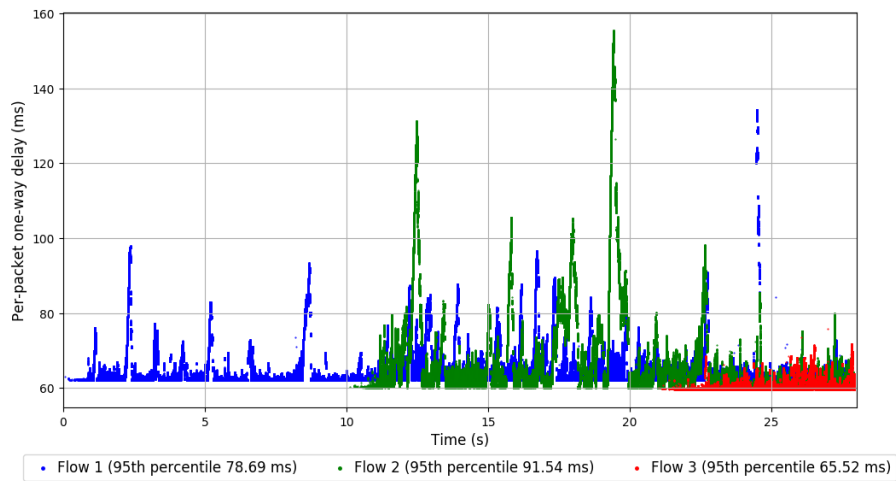
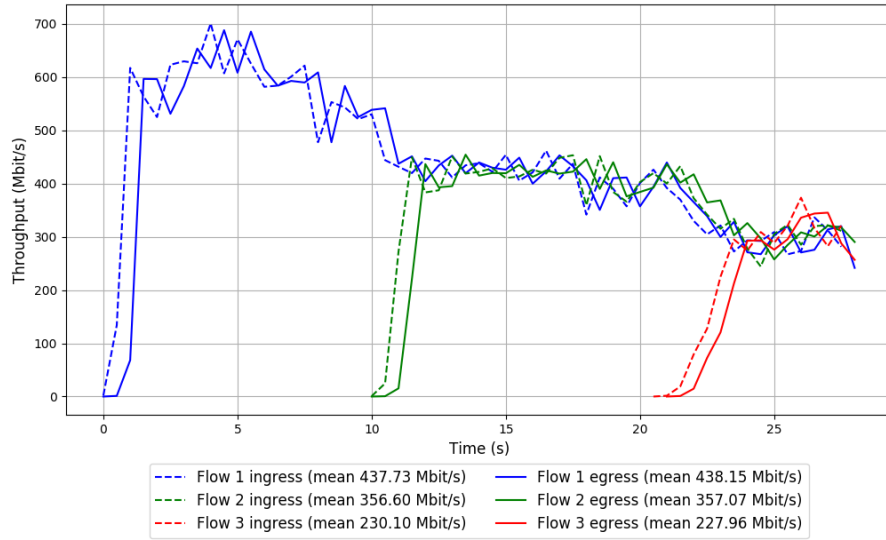
-- Flow 2:

Average throughput: 357.07 Mbit/s  
95th percentile per-packet one-way delay: 91.540 ms  
Loss rate: 0.54%

-- Flow 3:

Average throughput: 227.96 Mbit/s  
95th percentile per-packet one-way delay: 65.524 ms  
Loss rate: 2.64%

## Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MuseST

Start at: 2019-10-03 12:06:54

End at: 2019-10-03 12:07:24

Local clock offset: -0.111 ms

Remote clock offset: -0.19 ms

# Below is generated by plot.py at 2019-10-03 15:53:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 728.85 Mbit/s

95th percentile per-packet one-way delay: 108.065 ms

Loss rate: 0.51%

-- Flow 1:

Average throughput: 436.32 Mbit/s

95th percentile per-packet one-way delay: 117.023 ms

Loss rate: 0.34%

-- Flow 2:

Average throughput: 360.82 Mbit/s

95th percentile per-packet one-way delay: 82.794 ms

Loss rate: 0.46%

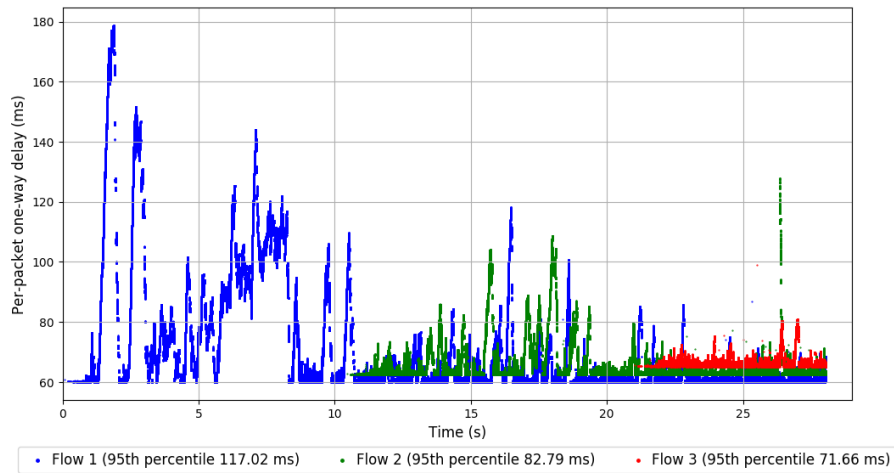
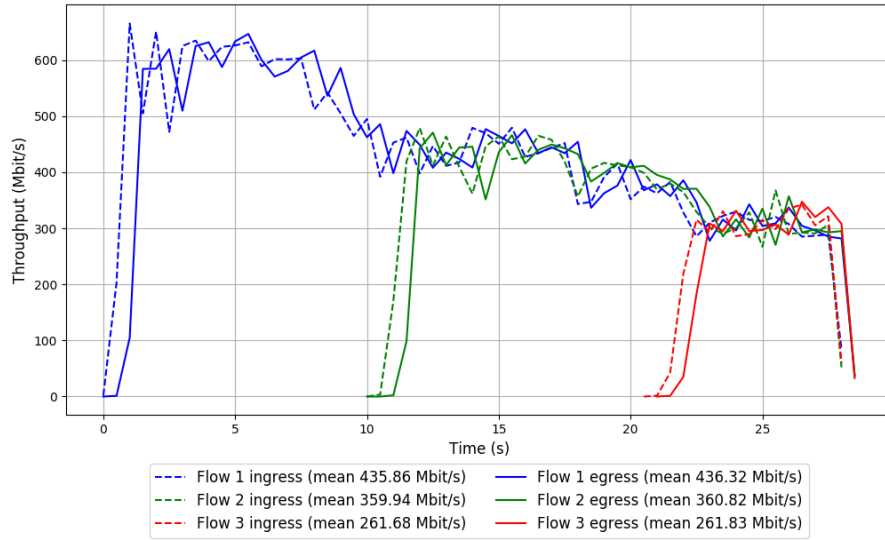
-- Flow 3:

Average throughput: 261.83 Mbit/s

95th percentile per-packet one-way delay: 71.664 ms

Loss rate: 1.79%

### Run 3: Report of Indigo-MusesT — Data Link



Run 4: Statistics of Indigo-MuseST

Start at: 2019-10-03 12:46:26  
End at: 2019-10-03 12:46:56  
Local clock offset: -0.035 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-10-03 15:55:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 696.46 Mbit/s  
95th percentile per-packet one-way delay: 92.006 ms  
Loss rate: 0.55%

-- Flow 1:

Average throughput: 438.82 Mbit/s  
95th percentile per-packet one-way delay: 97.083 ms  
Loss rate: 0.38%

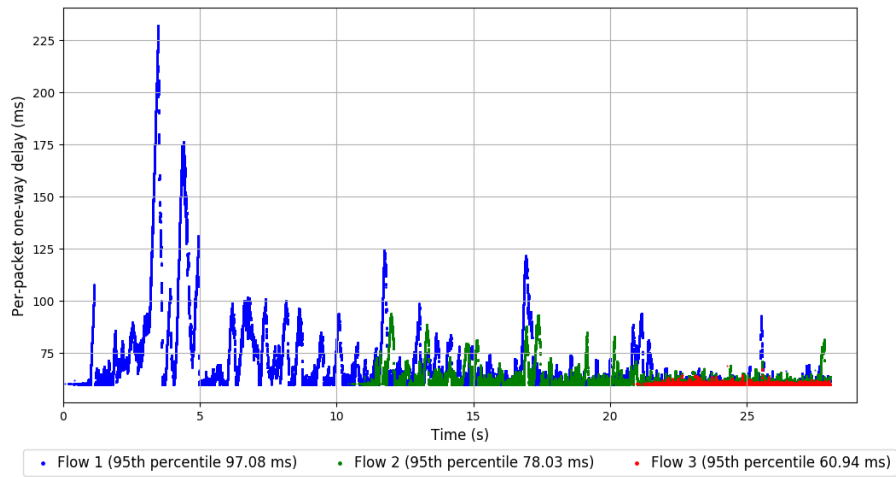
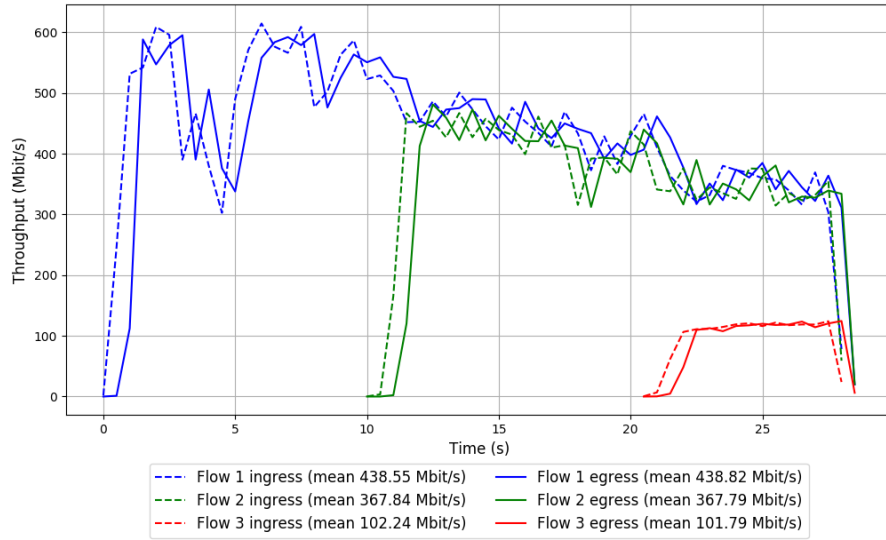
-- Flow 2:

Average throughput: 367.79 Mbit/s  
95th percentile per-packet one-way delay: 78.027 ms  
Loss rate: 0.70%

-- Flow 3:

Average throughput: 101.79 Mbit/s  
95th percentile per-packet one-way delay: 60.944 ms  
Loss rate: 2.09%

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

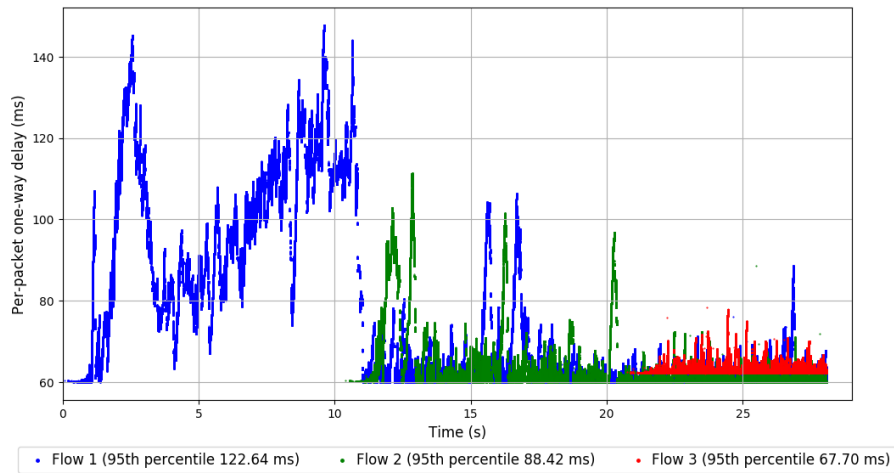
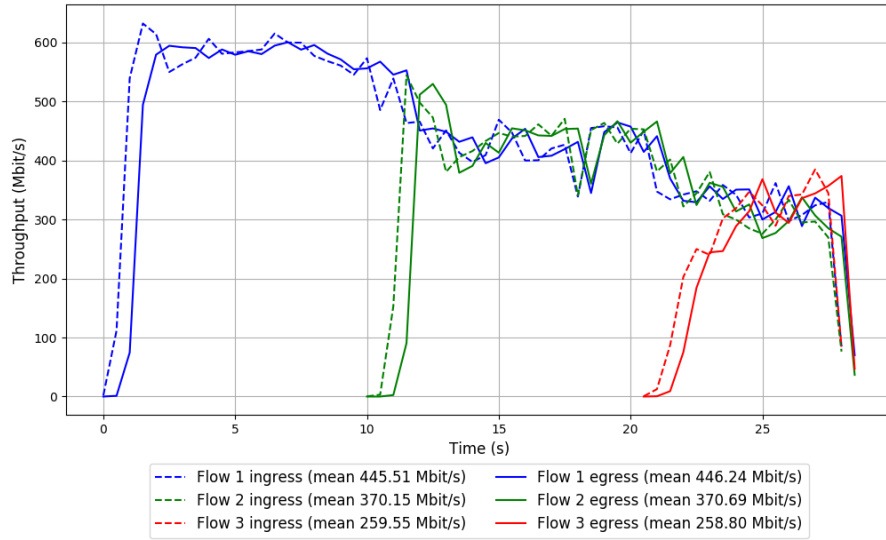


Run 5: Statistics of Indigo-MuseST

Start at: 2019-10-03 13:26:15  
End at: 2019-10-03 13:26:45  
Local clock offset: -0.026 ms  
Remote clock offset: -0.176 ms

```
# Below is generated by plot.py at 2019-10-03 16:00:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 747.75 Mbit/s
95th percentile per-packet one-way delay: 116.591 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 446.24 Mbit/s
95th percentile per-packet one-way delay: 122.639 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 370.69 Mbit/s
95th percentile per-packet one-way delay: 88.418 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 258.80 Mbit/s
95th percentile per-packet one-way delay: 67.700 ms
Loss rate: 1.94%
```

Run 5: Report of Indigo-MusesT — Data Link



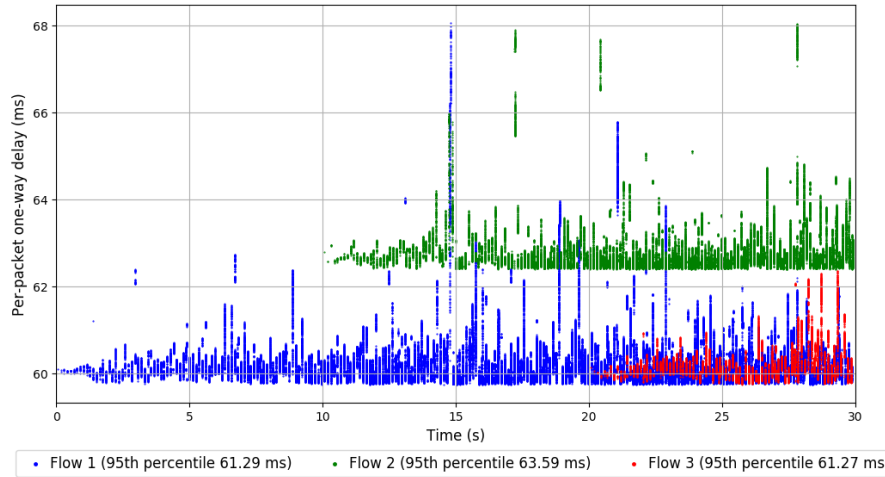
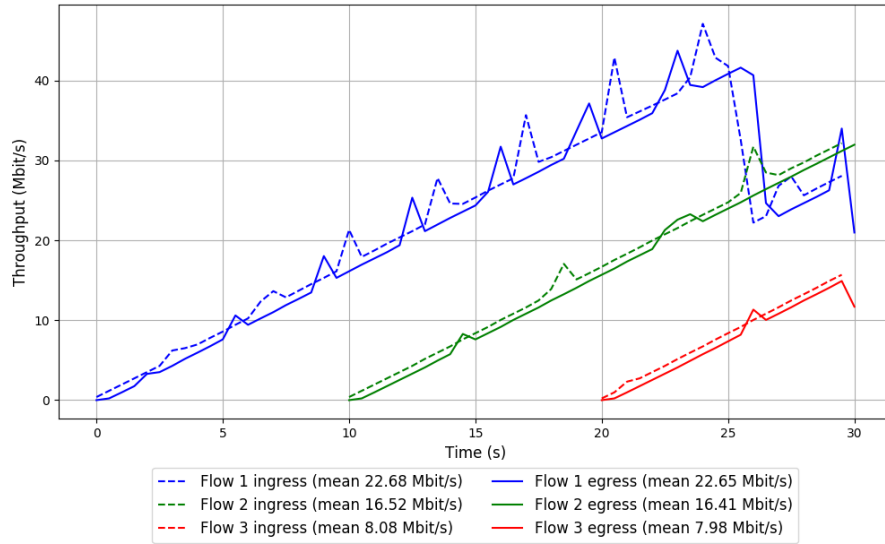


```
Run 1: Statistics of LEDBAT

Start at: 2019-10-03 11:06:38
End at: 2019-10-03 11:07:08
Local clock offset: -0.096 ms
Remote clock offset: 0.16 ms

# Below is generated by plot.py at 2019-10-03 16:00:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.14 Mbit/s
95th percentile per-packet one-way delay: 63.090 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 22.65 Mbit/s
95th percentile per-packet one-way delay: 61.292 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 16.41 Mbit/s
95th percentile per-packet one-way delay: 63.593 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 7.98 Mbit/s
95th percentile per-packet one-way delay: 61.273 ms
Loss rate: 2.50%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-03 11:46:50

End at: 2019-10-03 11:47:20

Local clock offset: -0.114 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 16:00:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 38.71 Mbit/s

95th percentile per-packet one-way delay: 62.599 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 25.62 Mbit/s

95th percentile per-packet one-way delay: 61.369 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 15.80 Mbit/s

95th percentile per-packet one-way delay: 63.285 ms

Loss rate: 1.26%

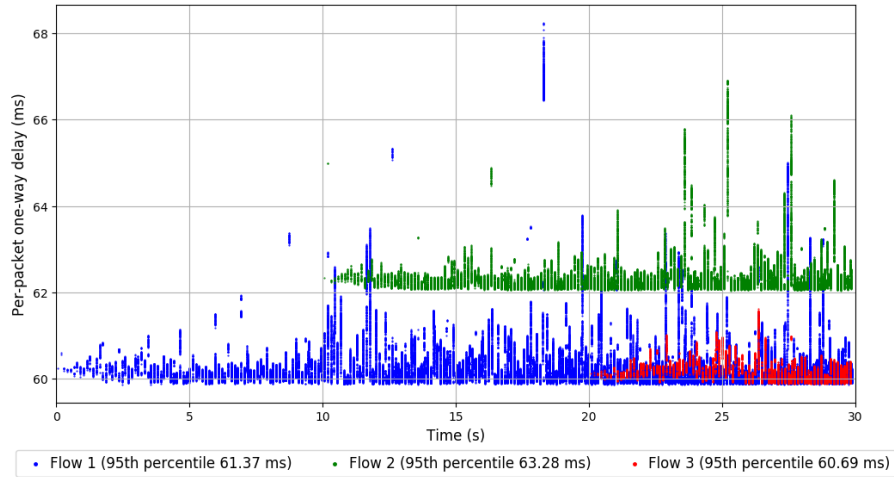
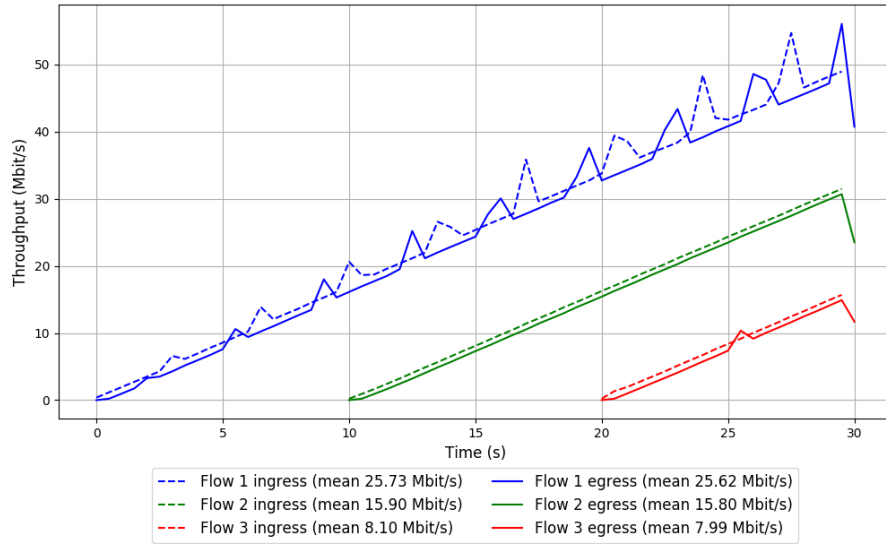
-- Flow 3:

Average throughput: 7.99 Mbit/s

95th percentile per-packet one-way delay: 60.691 ms

Loss rate: 2.50%

Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 12:26:56  
End at: 2019-10-03 12:27:26  
Local clock offset: -0.071 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-10-03 16:00:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 35.71 Mbit/s  
95th percentile per-packet one-way delay: 61.236 ms  
Loss rate: 0.98%

-- Flow 1:

Average throughput: 24.39 Mbit/s  
95th percentile per-packet one-way delay: 61.359 ms  
Loss rate: 0.82%

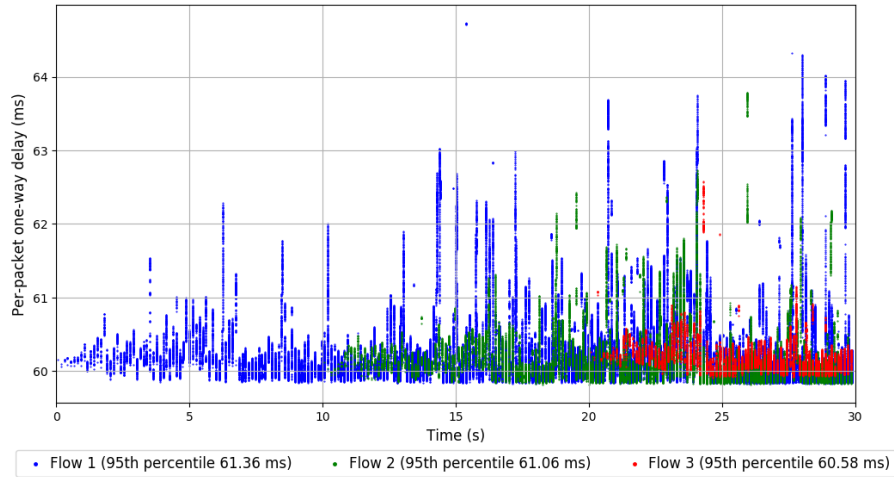
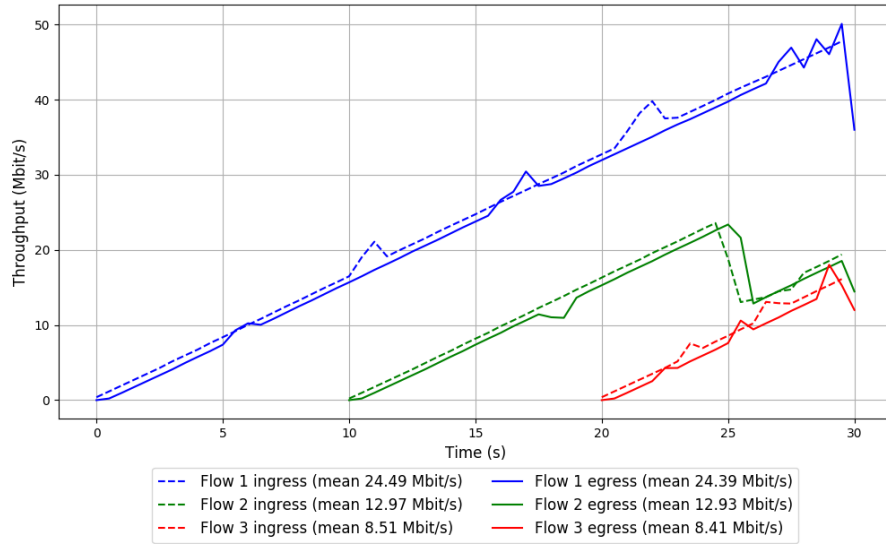
-- Flow 2:

Average throughput: 12.93 Mbit/s  
95th percentile per-packet one-way delay: 61.062 ms  
Loss rate: 0.95%

-- Flow 3:

Average throughput: 8.41 Mbit/s  
95th percentile per-packet one-way delay: 60.579 ms  
Loss rate: 2.45%

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



Run 4: Statistics of LEDBAT

Start at: 2019-10-03 13:06:13  
End at: 2019-10-03 13:06:44  
Local clock offset: -0.026 ms  
Remote clock offset: -0.546 ms

# Below is generated by plot.py at 2019-10-03 16:00:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 34.15 Mbit/s  
95th percentile per-packet one-way delay: 65.153 ms  
Loss rate: 0.98%

-- Flow 1:

Average throughput: 22.27 Mbit/s  
95th percentile per-packet one-way delay: 65.554 ms  
Loss rate: 0.86%

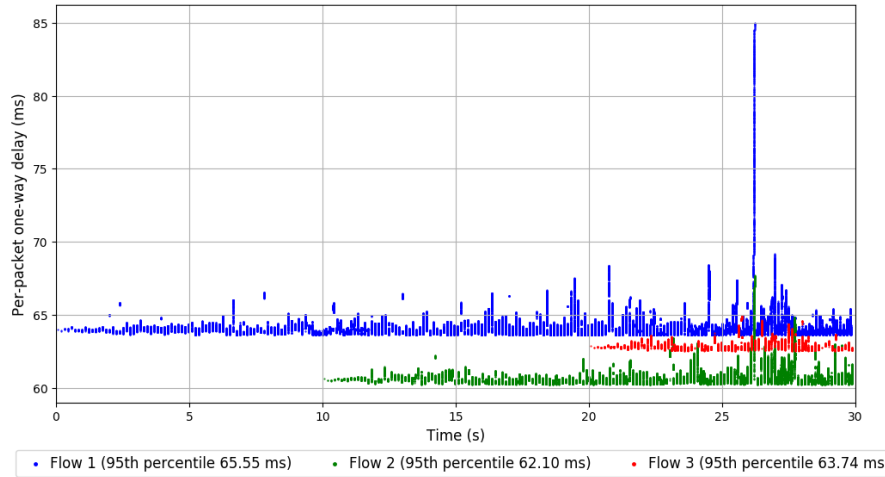
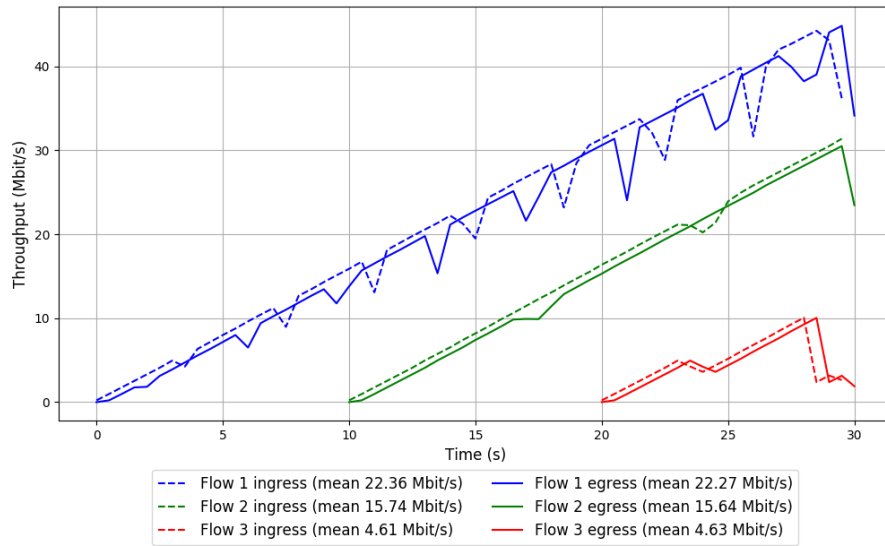
-- Flow 2:

Average throughput: 15.64 Mbit/s  
95th percentile per-packet one-way delay: 62.099 ms  
Loss rate: 1.26%

-- Flow 3:

Average throughput: 4.63 Mbit/s  
95th percentile per-packet one-way delay: 63.736 ms  
Loss rate: 0.88%

Run 4: Report of LEDBAT — Data Link





Run 5: Statistics of LEDBAT

Start at: 2019-10-03 13:46:02  
End at: 2019-10-03 13:46:32  
Local clock offset: -0.021 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-10-03 16:00:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 37.67 Mbit/s  
95th percentile per-packet one-way delay: 61.558 ms  
Loss rate: 1.06%

-- Flow 1:

Average throughput: 24.29 Mbit/s  
95th percentile per-packet one-way delay: 61.603 ms  
Loss rate: 0.82%

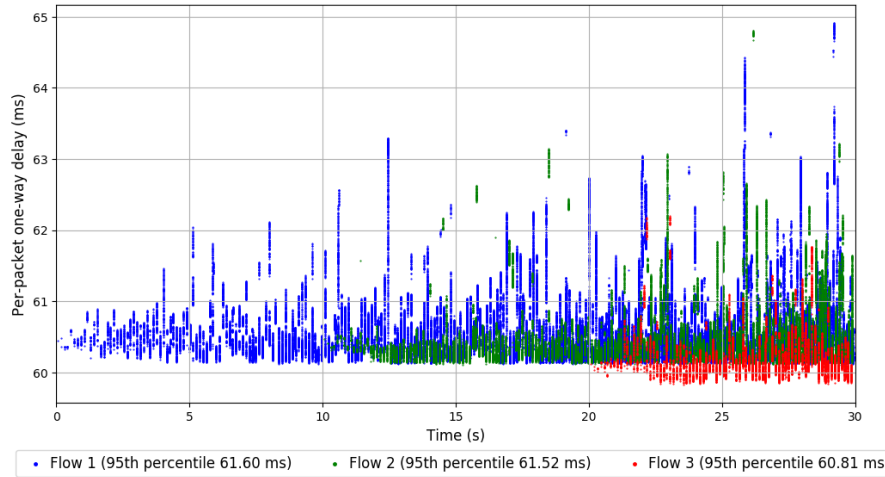
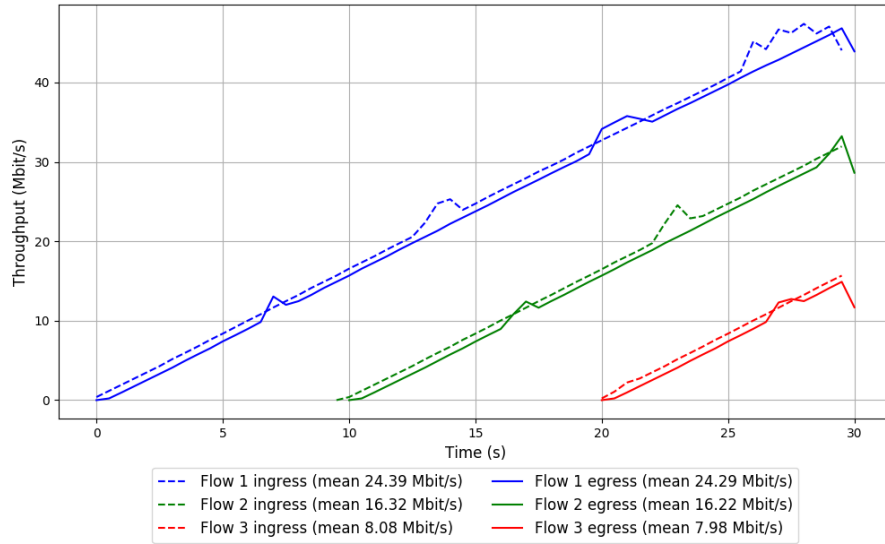
-- Flow 2:

Average throughput: 16.22 Mbit/s  
95th percentile per-packet one-way delay: 61.520 ms  
Loss rate: 1.24%

-- Flow 3:

Average throughput: 7.98 Mbit/s  
95th percentile per-packet one-way delay: 60.807 ms  
Loss rate: 2.50%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 10:43:11

End at: 2019-10-03 10:43:41

Local clock offset: -0.087 ms

Remote clock offset: 0.114 ms

# Below is generated by plot.py at 2019-10-03 16:01:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 637.85 Mbit/s

95th percentile per-packet one-way delay: 72.445 ms

Loss rate: 0.52%

-- Flow 1:

Average throughput: 367.83 Mbit/s

95th percentile per-packet one-way delay: 77.216 ms

Loss rate: 0.24%

-- Flow 2:

Average throughput: 309.01 Mbit/s

95th percentile per-packet one-way delay: 64.446 ms

Loss rate: 0.62%

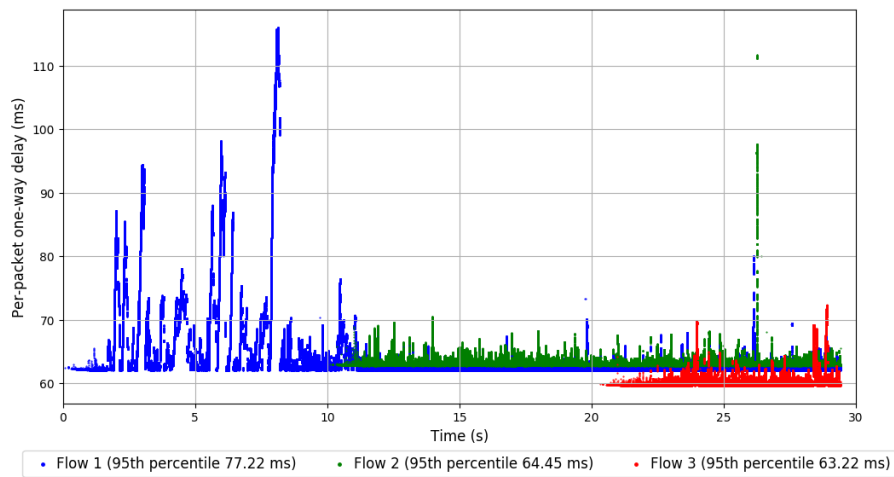
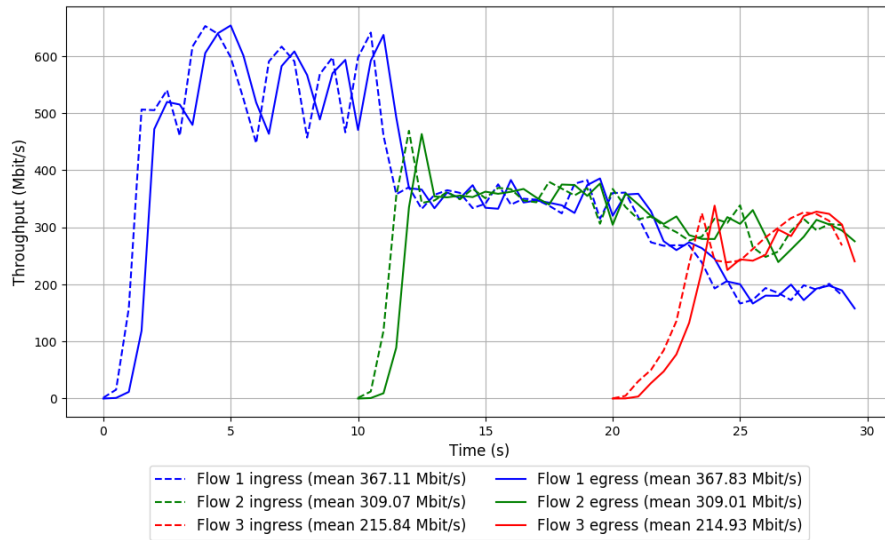
-- Flow 3:

Average throughput: 214.93 Mbit/s

95th percentile per-packet one-way delay: 63.220 ms

Loss rate: 1.72%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 11:23:03  
End at: 2019-10-03 11:23:33  
Local clock offset: -0.086 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-10-03 16:02:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 648.10 Mbit/s  
95th percentile per-packet one-way delay: 80.307 ms  
Loss rate: 0.50%

-- Flow 1:

Average throughput: 391.84 Mbit/s  
95th percentile per-packet one-way delay: 89.212 ms  
Loss rate: 0.34%

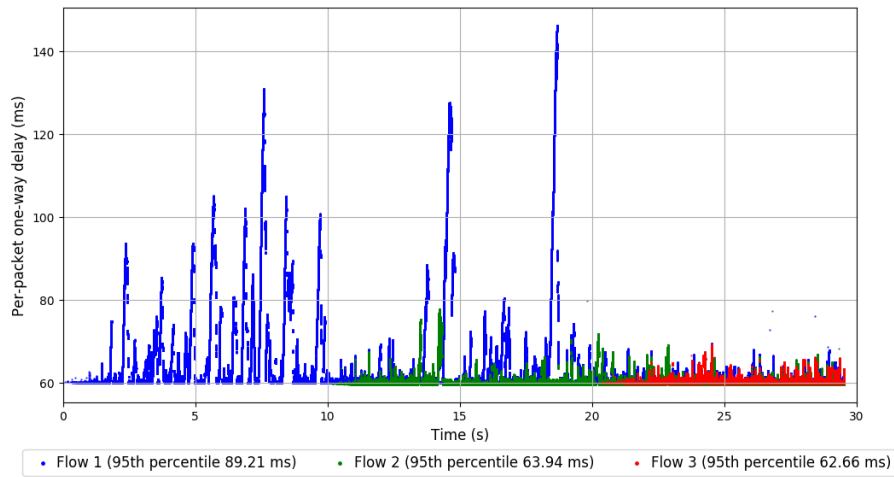
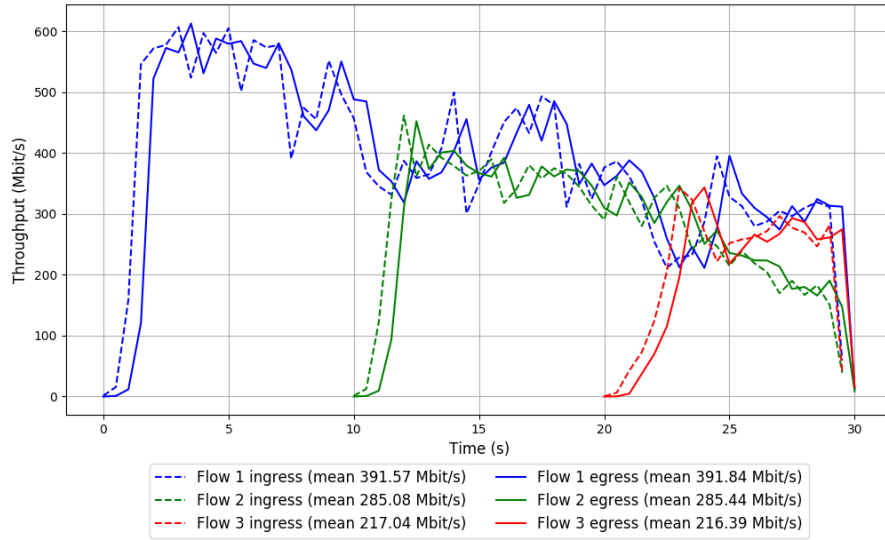
-- Flow 2:

Average throughput: 285.44 Mbit/s  
95th percentile per-packet one-way delay: 63.938 ms  
Loss rate: 0.44%

-- Flow 3:

Average throughput: 216.39 Mbit/s  
95th percentile per-packet one-way delay: 62.663 ms  
Loss rate: 1.58%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 12:03:26  
End at: 2019-10-03 12:03:56  
Local clock offset: -0.079 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-10-03 16:02:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 587.19 Mbit/s  
95th percentile per-packet one-way delay: 77.736 ms  
Loss rate: 0.50%

-- Flow 1:

Average throughput: 343.77 Mbit/s  
95th percentile per-packet one-way delay: 85.504 ms  
Loss rate: 0.28%

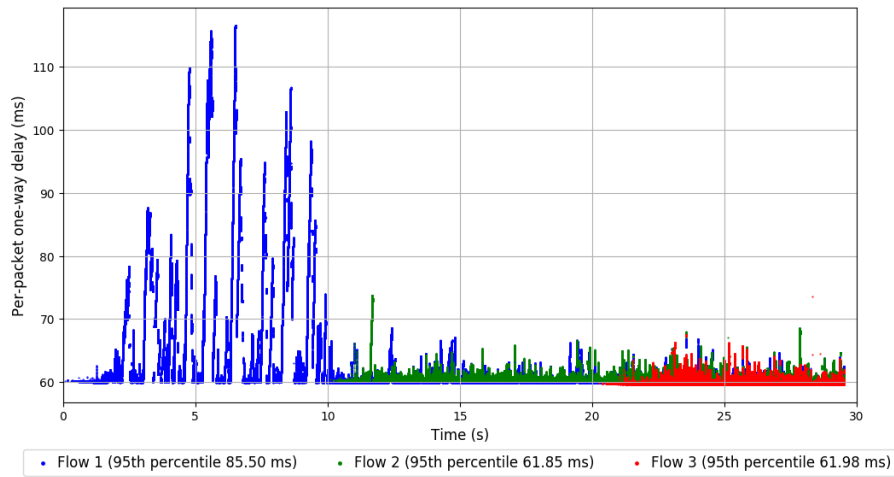
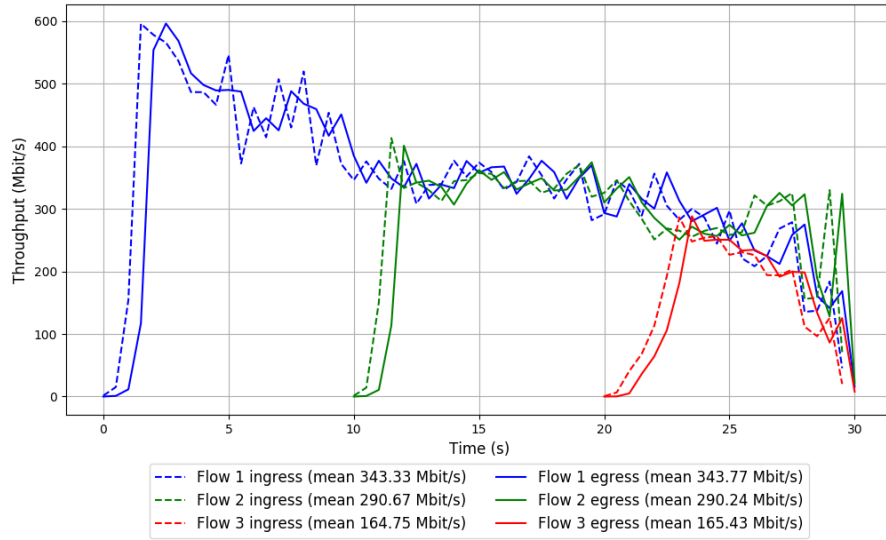
-- Flow 2:

Average throughput: 290.24 Mbit/s  
95th percentile per-packet one-way delay: 61.852 ms  
Loss rate: 0.77%

-- Flow 3:

Average throughput: 165.43 Mbit/s  
95th percentile per-packet one-way delay: 61.981 ms  
Loss rate: 0.90%

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





Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 12:42:57  
End at: 2019-10-03 12:43:27  
Local clock offset: -0.005 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-10-03 16:03:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 645.49 Mbit/s  
95th percentile per-packet one-way delay: 73.678 ms  
Loss rate: 0.44%

-- Flow 1:

Average throughput: 366.35 Mbit/s  
95th percentile per-packet one-way delay: 78.681 ms  
Loss rate: 0.33%

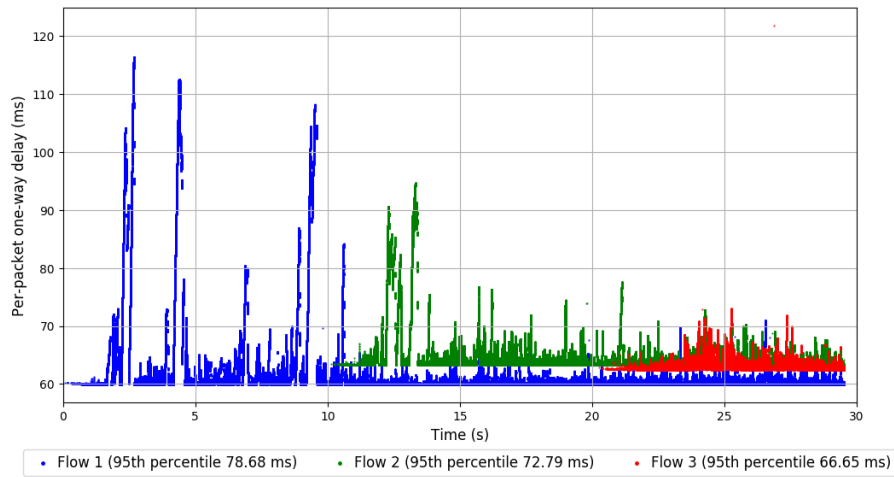
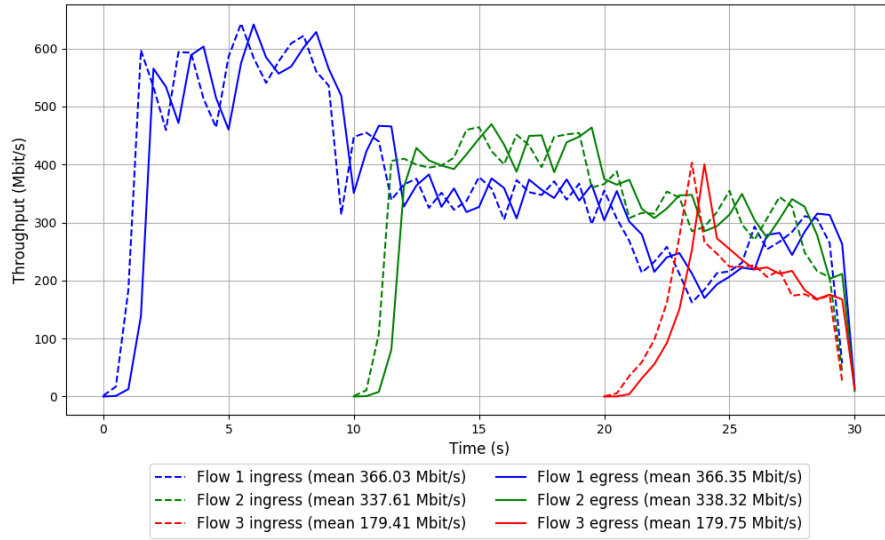
-- Flow 2:

Average throughput: 338.32 Mbit/s  
95th percentile per-packet one-way delay: 72.791 ms  
Loss rate: 0.42%

-- Flow 3:

Average throughput: 179.75 Mbit/s  
95th percentile per-packet one-way delay: 66.646 ms  
Loss rate: 1.17%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 13:22:45

End at: 2019-10-03 13:23:15

Local clock offset: -0.006 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-10-03 16:03:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 604.03 Mbit/s

95th percentile per-packet one-way delay: 82.060 ms

Loss rate: 0.53%

-- Flow 1:

Average throughput: 360.06 Mbit/s

95th percentile per-packet one-way delay: 94.738 ms

Loss rate: 0.29%

-- Flow 2:

Average throughput: 268.10 Mbit/s

95th percentile per-packet one-way delay: 62.153 ms

Loss rate: 0.40%

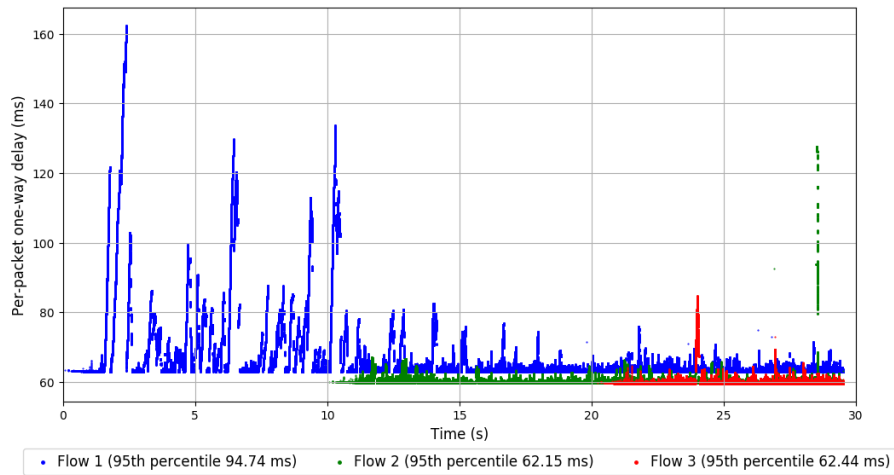
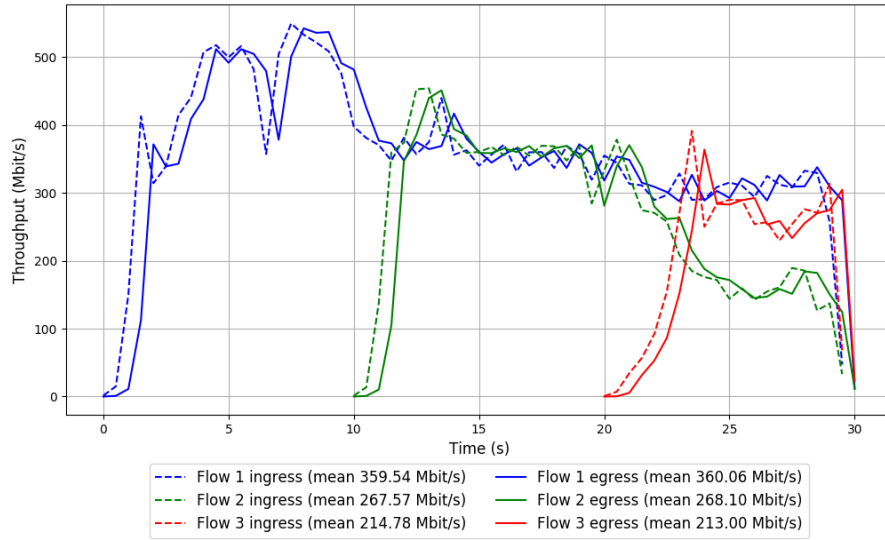
-- Flow 3:

Average throughput: 213.00 Mbit/s

95th percentile per-packet one-way delay: 62.441 ms

Loss rate: 2.10%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 11:13:01  
End at: 2019-10-03 11:13:31  
Local clock offset: -0.088 ms  
Remote clock offset: -0.132 ms

# Below is generated by plot.py at 2019-10-03 16:04:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 528.27 Mbit/s  
95th percentile per-packet one-way delay: 114.868 ms  
Loss rate: 0.75%

-- Flow 1:

Average throughput: 259.20 Mbit/s  
95th percentile per-packet one-way delay: 128.408 ms  
Loss rate: 0.60%

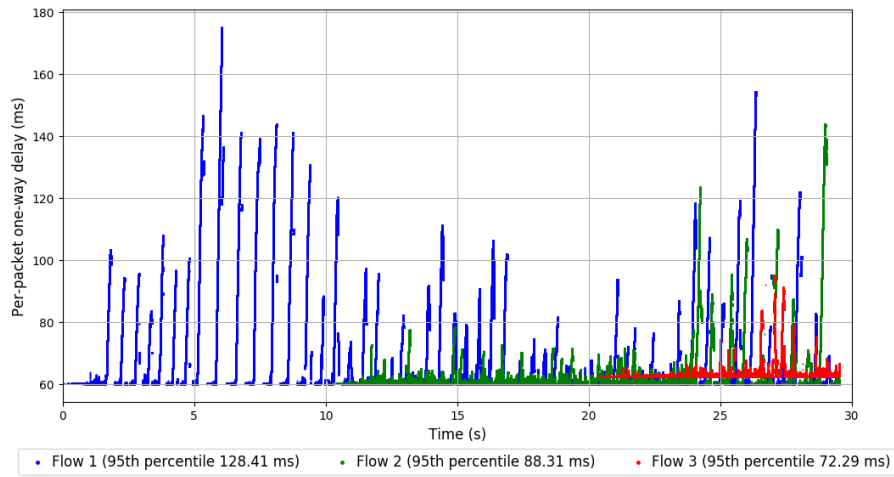
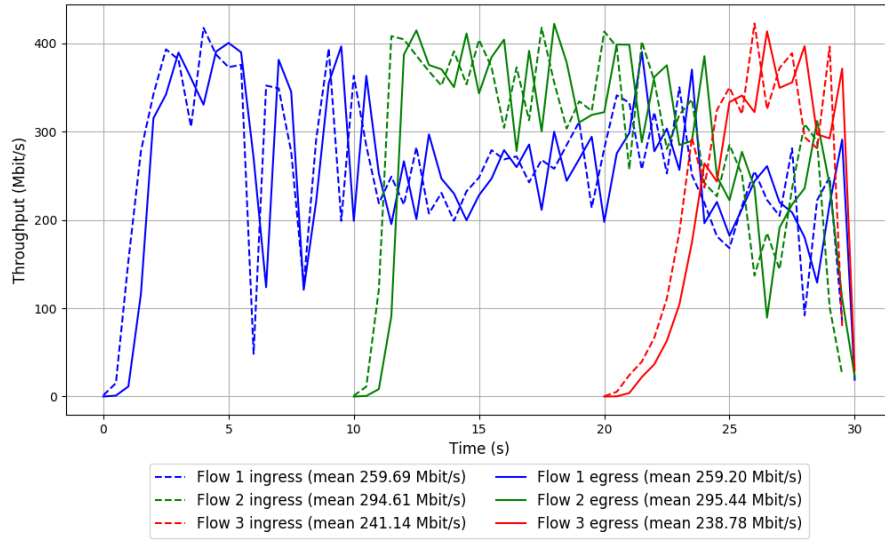
-- Flow 2:

Average throughput: 295.44 Mbit/s  
95th percentile per-packet one-way delay: 88.313 ms  
Loss rate: 0.37%

-- Flow 3:

Average throughput: 238.78 Mbit/s  
95th percentile per-packet one-way delay: 72.288 ms  
Loss rate: 2.27%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

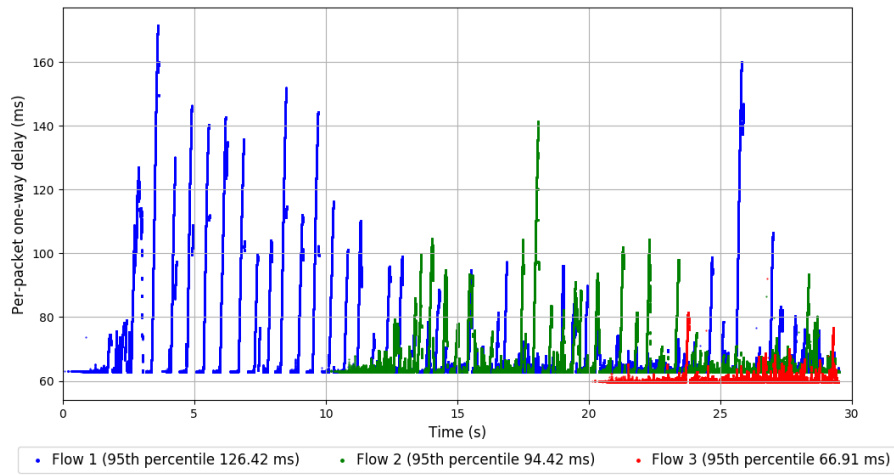
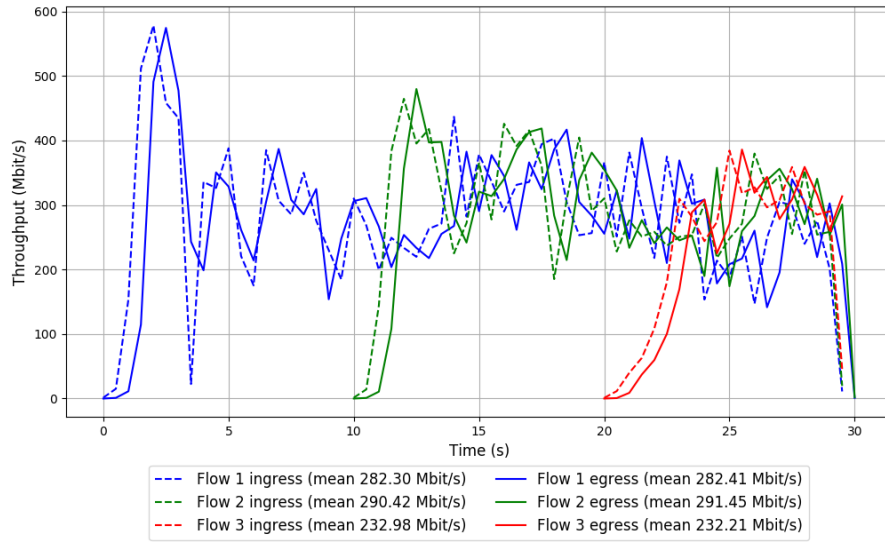


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 11:53:14  
End at: 2019-10-03 11:53:44  
Local clock offset: -0.078 ms  
Remote clock offset: -0.121 ms

# Below is generated by plot.py at 2019-10-03 16:06:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 548.65 Mbit/s  
95th percentile per-packet one-way delay: 111.954 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 282.41 Mbit/s  
95th percentile per-packet one-way delay: 126.419 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 291.45 Mbit/s  
95th percentile per-packet one-way delay: 94.416 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 232.21 Mbit/s  
95th percentile per-packet one-way delay: 66.909 ms  
Loss rate: 1.72%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 12:33:01  
End at: 2019-10-03 12:33:31  
Local clock offset: -0.065 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-10-03 16:09:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 505.06 Mbit/s  
95th percentile per-packet one-way delay: 130.133 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 257.96 Mbit/s  
95th percentile per-packet one-way delay: 139.306 ms  
Loss rate: 0.03%

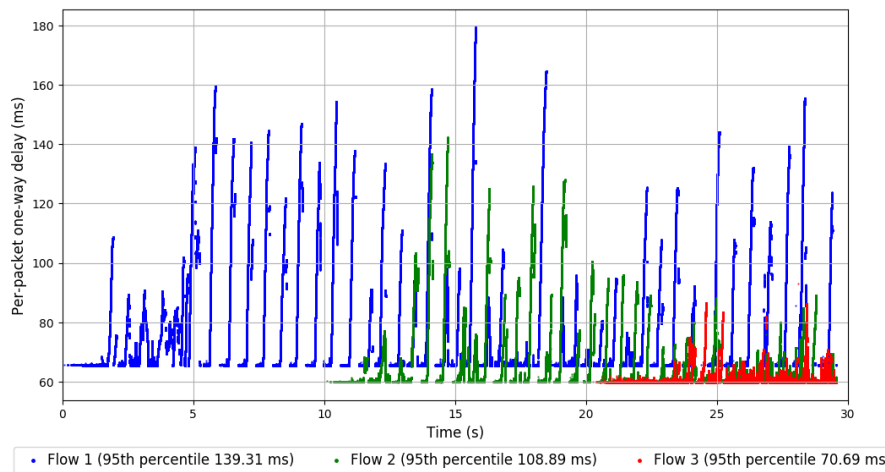
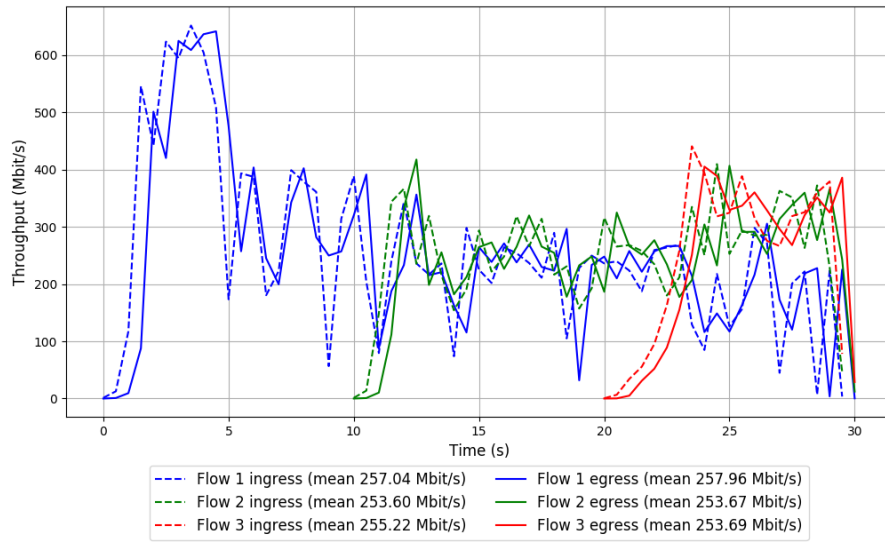
-- Flow 2:

Average throughput: 253.67 Mbit/s  
95th percentile per-packet one-way delay: 108.892 ms  
Loss rate: 0.59%

-- Flow 3:

Average throughput: 253.69 Mbit/s  
95th percentile per-packet one-way delay: 70.686 ms  
Loss rate: 1.88%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

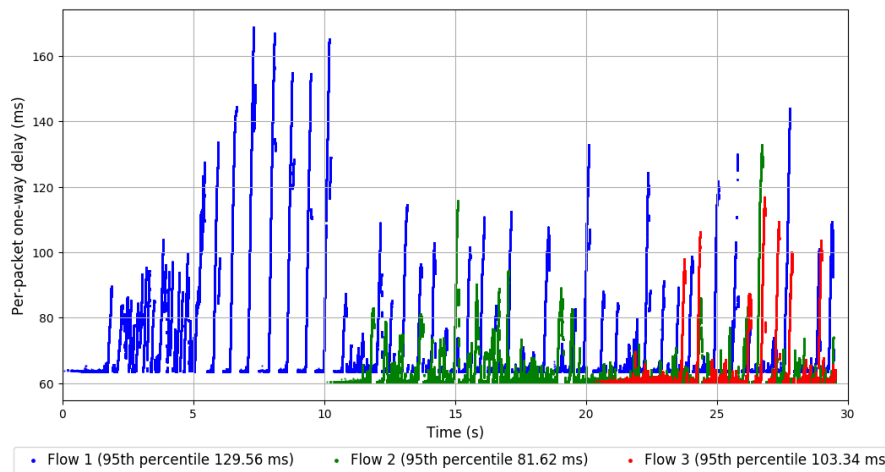
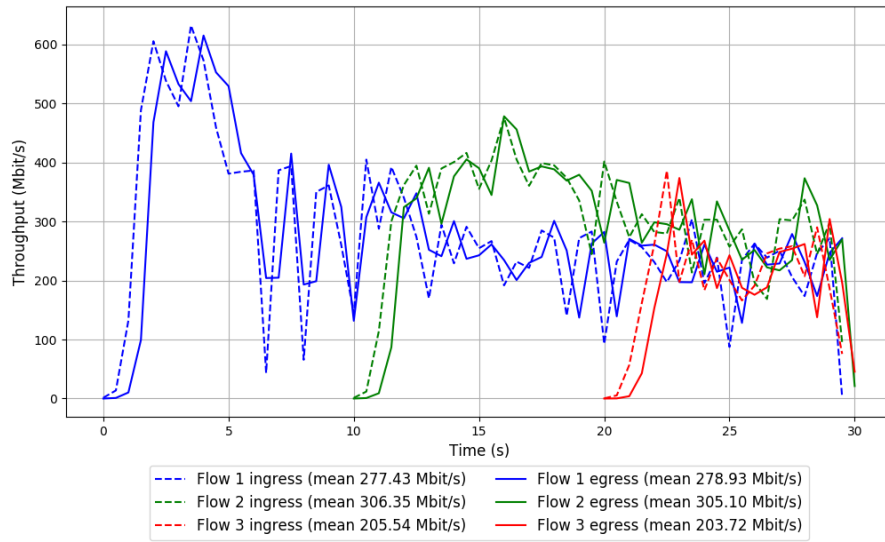


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 13:12:38  
End at: 2019-10-03 13:13:08  
Local clock offset: -0.008 ms  
Remote clock offset: -0.709 ms

# Below is generated by plot.py at 2019-10-03 16:11:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 543.22 Mbit/s  
95th percentile per-packet one-way delay: 118.146 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 278.93 Mbit/s  
95th percentile per-packet one-way delay: 129.563 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 305.10 Mbit/s  
95th percentile per-packet one-way delay: 81.625 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 203.72 Mbit/s  
95th percentile per-packet one-way delay: 103.340 ms  
Loss rate: 1.97%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 13:52:27  
End at: 2019-10-03 13:52:57  
Local clock offset: -0.031 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-10-03 16:13:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 658.61 Mbit/s  
95th percentile per-packet one-way delay: 85.024 ms  
Loss rate: 0.62%

-- Flow 1:

Average throughput: 370.34 Mbit/s  
95th percentile per-packet one-way delay: 85.469 ms  
Loss rate: 0.38%

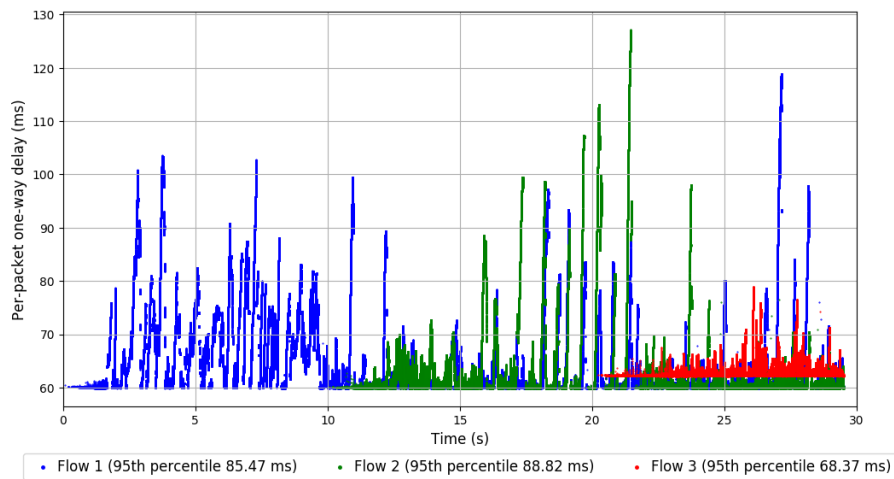
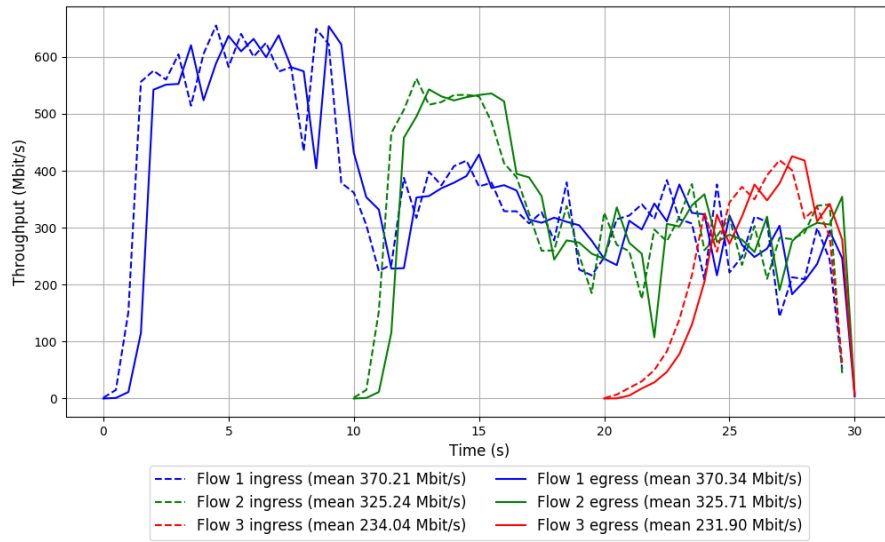
-- Flow 2:

Average throughput: 325.71 Mbit/s  
95th percentile per-packet one-way delay: 88.822 ms  
Loss rate: 0.48%

-- Flow 3:

Average throughput: 231.90 Mbit/s  
95th percentile per-packet one-way delay: 68.367 ms  
Loss rate: 2.23%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 10:44:56

End at: 2019-10-03 10:45:26

Local clock offset: -0.06 ms

Remote clock offset: 0.132 ms

# Below is generated by plot.py at 2019-10-03 16:14:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 666.19 Mbit/s

95th percentile per-packet one-way delay: 77.137 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 414.75 Mbit/s

95th percentile per-packet one-way delay: 84.195 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 296.35 Mbit/s

95th percentile per-packet one-way delay: 61.934 ms

Loss rate: 0.71%

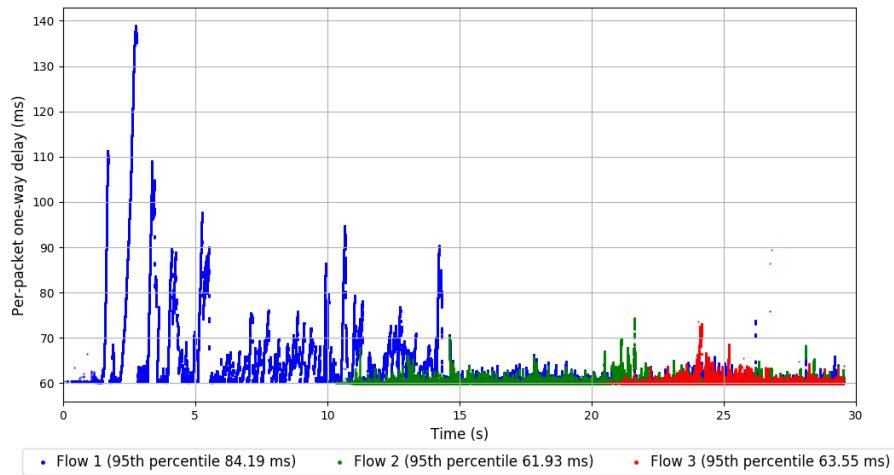
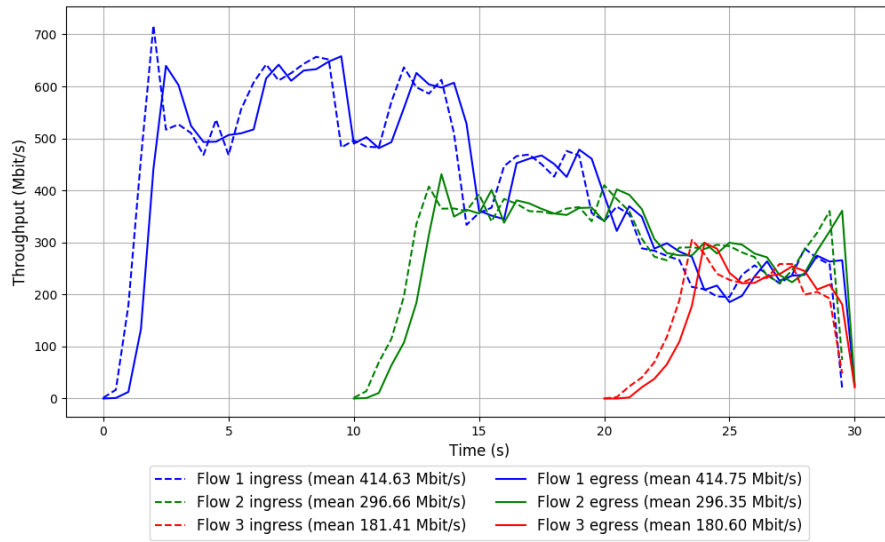
-- Flow 3:

Average throughput: 180.60 Mbit/s

95th percentile per-packet one-way delay: 63.548 ms

Loss rate: 1.56%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 11:24:48  
End at: 2019-10-03 11:25:18  
Local clock offset: -0.14 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-10-03 16:14:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 658.23 Mbit/s  
95th percentile per-packet one-way delay: 85.166 ms  
Loss rate: 0.43%

-- Flow 1:

Average throughput: 401.92 Mbit/s  
95th percentile per-packet one-way delay: 92.957 ms  
Loss rate: 0.19%

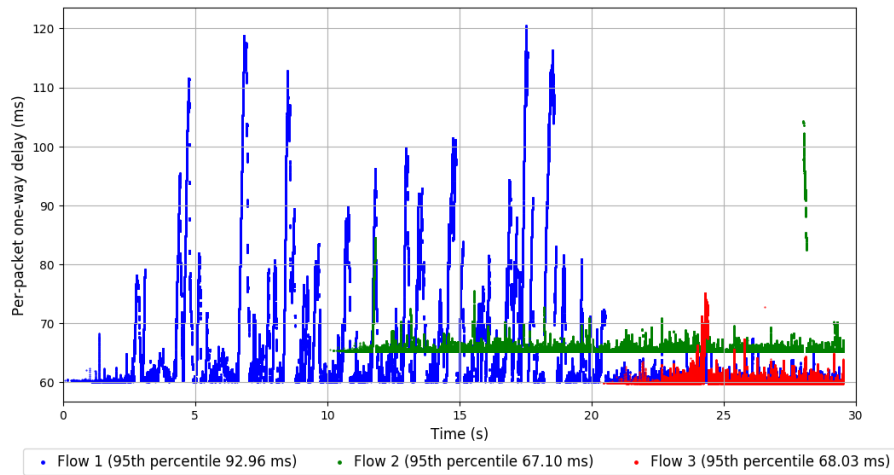
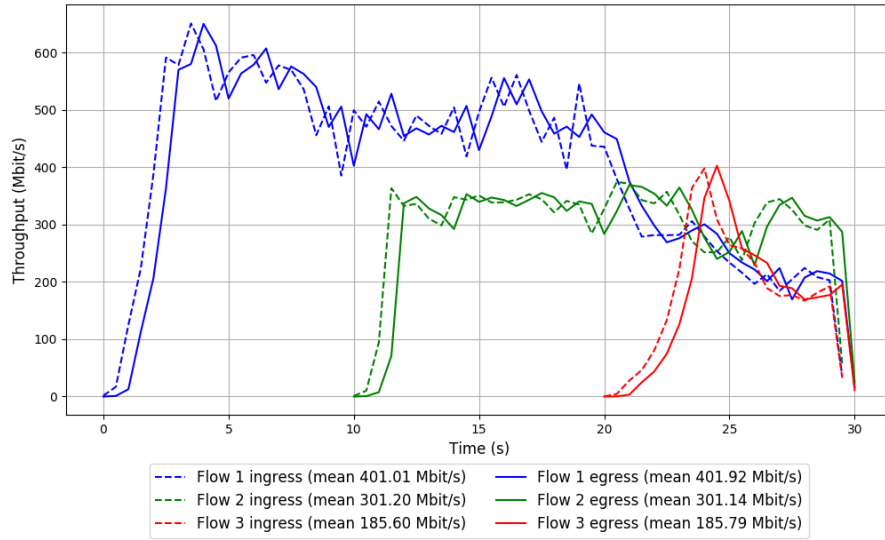
-- Flow 2:

Average throughput: 301.14 Mbit/s  
95th percentile per-packet one-way delay: 67.103 ms  
Loss rate: 0.67%

-- Flow 3:

Average throughput: 185.79 Mbit/s  
95th percentile per-packet one-way delay: 68.032 ms  
Loss rate: 1.22%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 12:05:09  
End at: 2019-10-03 12:05:39  
Local clock offset: -0.098 ms  
Remote clock offset: -0.257 ms

# Below is generated by plot.py at 2019-10-03 16:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 635.27 Mbit/s  
95th percentile per-packet one-way delay: 71.877 ms  
Loss rate: 0.46%

-- Flow 1:

Average throughput: 363.20 Mbit/s  
95th percentile per-packet one-way delay: 77.433 ms  
Loss rate: 0.26%

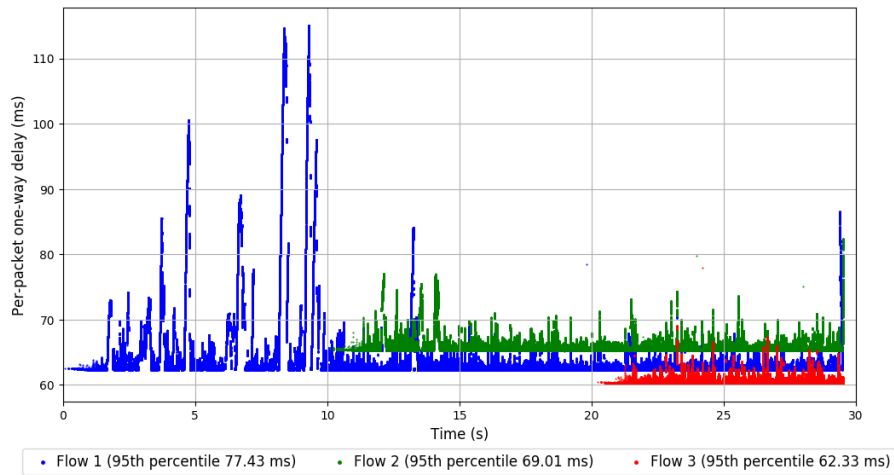
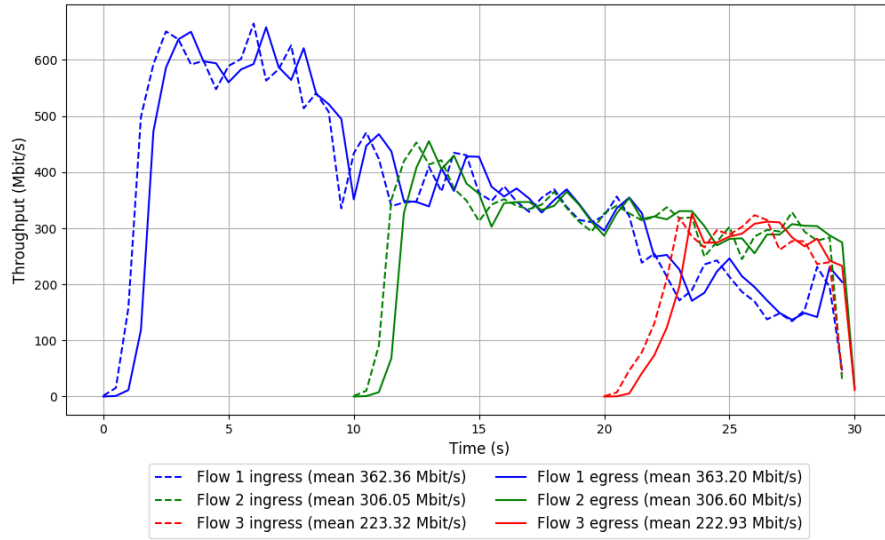
-- Flow 2:

Average throughput: 306.60 Mbit/s  
95th percentile per-packet one-way delay: 69.006 ms  
Loss rate: 0.46%

-- Flow 3:

Average throughput: 222.93 Mbit/s  
95th percentile per-packet one-way delay: 62.328 ms  
Loss rate: 1.46%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 12:44:43  
End at: 2019-10-03 12:45:13  
Local clock offset: -0.053 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-10-03 16:14:56

# Datalink statistics

-- Total of 3 flows:

Average throughput: 574.24 Mbit/s  
95th percentile per-packet one-way delay: 69.256 ms  
Loss rate: 0.61%

-- Flow 1:

Average throughput: 302.45 Mbit/s  
95th percentile per-packet one-way delay: 64.837 ms  
Loss rate: 0.45%

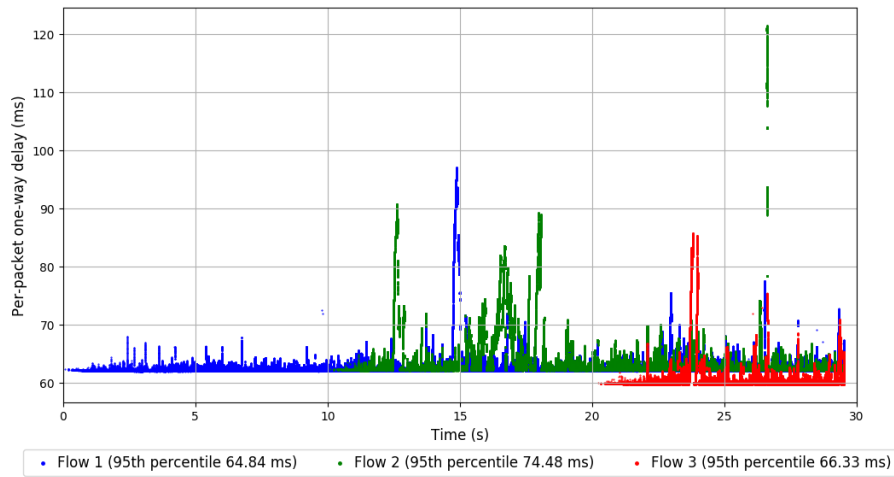
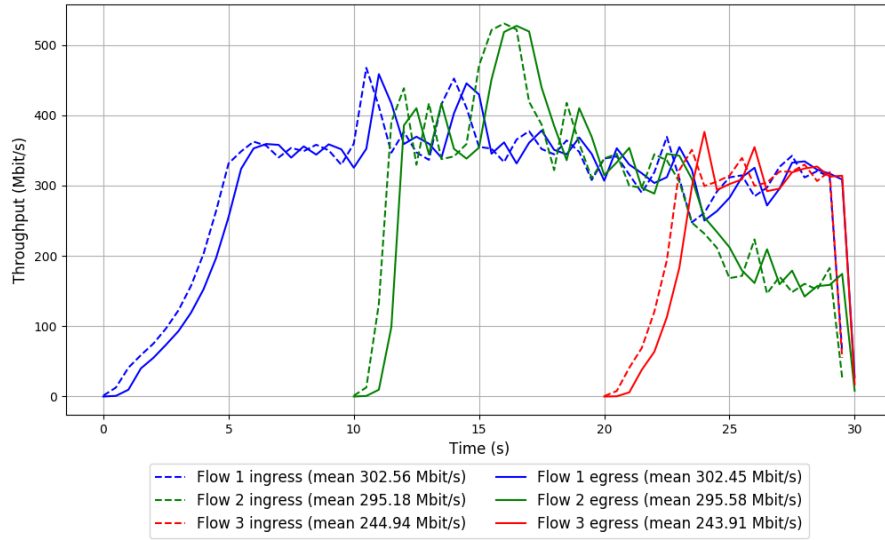
-- Flow 2:

Average throughput: 295.58 Mbit/s  
95th percentile per-packet one-way delay: 74.480 ms  
Loss rate: 0.41%

-- Flow 3:

Average throughput: 243.91 Mbit/s  
95th percentile per-packet one-way delay: 66.325 ms  
Loss rate: 1.71%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 13:24:28  
End at: 2019-10-03 13:24:58  
Local clock offset: -0.016 ms  
Remote clock offset: -0.708 ms

# Below is generated by plot.py at 2019-10-03 16:18:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 661.92 Mbit/s  
95th percentile per-packet one-way delay: 75.162 ms  
Loss rate: 0.49%

-- Flow 1:

Average throughput: 391.90 Mbit/s  
95th percentile per-packet one-way delay: 78.778 ms  
Loss rate: 0.21%

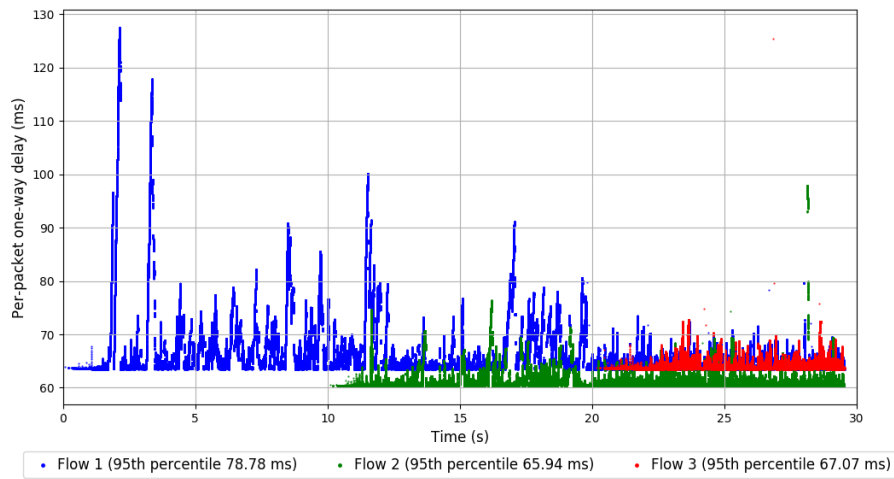
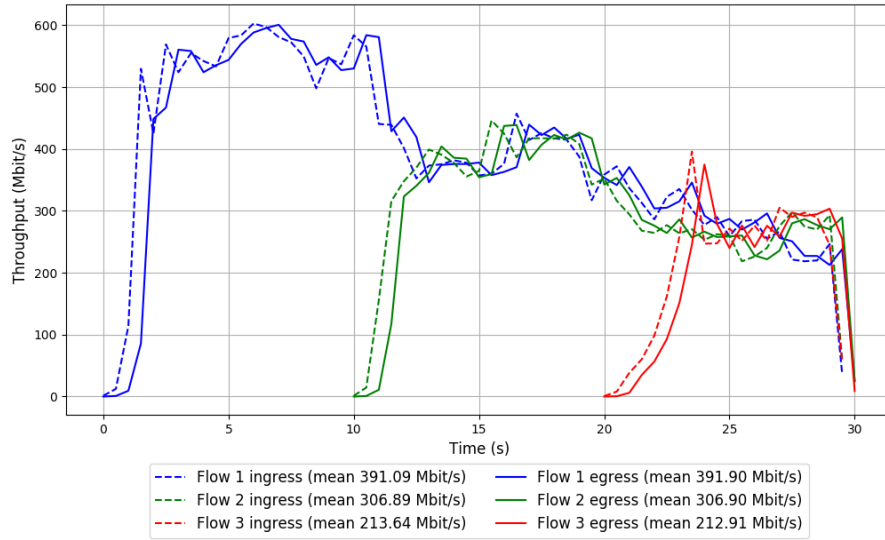
-- Flow 2:

Average throughput: 306.90 Mbit/s  
95th percentile per-packet one-way delay: 65.944 ms  
Loss rate: 0.63%

-- Flow 3:

Average throughput: 212.91 Mbit/s  
95th percentile per-packet one-way delay: 67.069 ms  
Loss rate: 1.64%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-10-03 10:59:36

End at: 2019-10-03 11:00:06

Local clock offset: -0.062 ms

Remote clock offset: 0.038 ms

# Below is generated by plot.py at 2019-10-03 16:29:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 554.24 Mbit/s

95th percentile per-packet one-way delay: 108.995 ms

Loss rate: 0.69%

-- Flow 1:

Average throughput: 281.83 Mbit/s

95th percentile per-packet one-way delay: 105.277 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 295.64 Mbit/s

95th percentile per-packet one-way delay: 115.605 ms

Loss rate: 0.77%

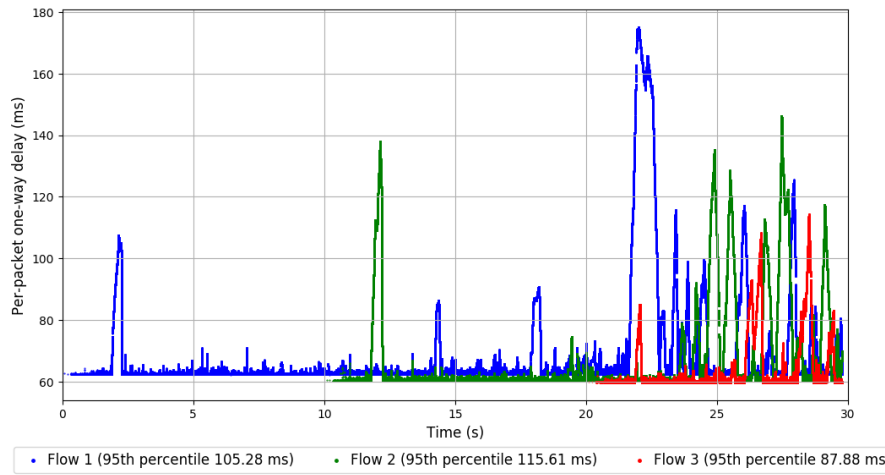
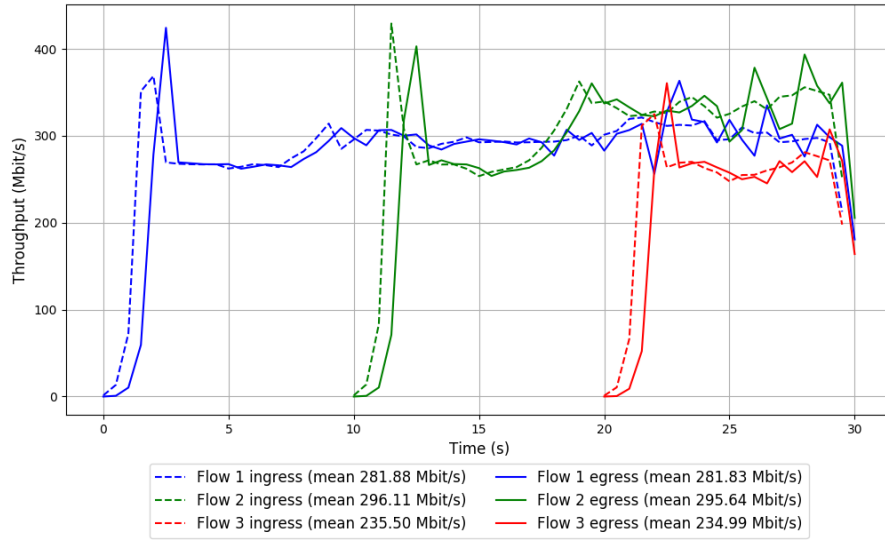
-- Flow 3:

Average throughput: 234.99 Mbit/s

95th percentile per-packet one-way delay: 87.882 ms

Loss rate: 1.45%

### Run 1: Report of PCC-Allegro — Data Link

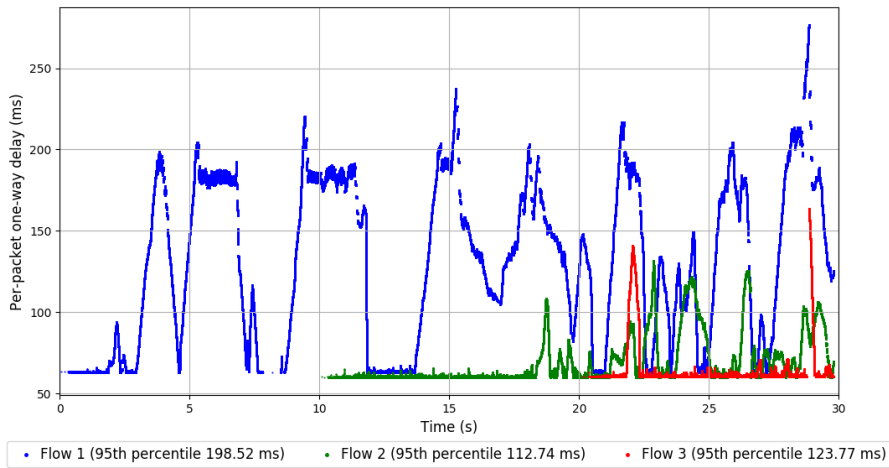
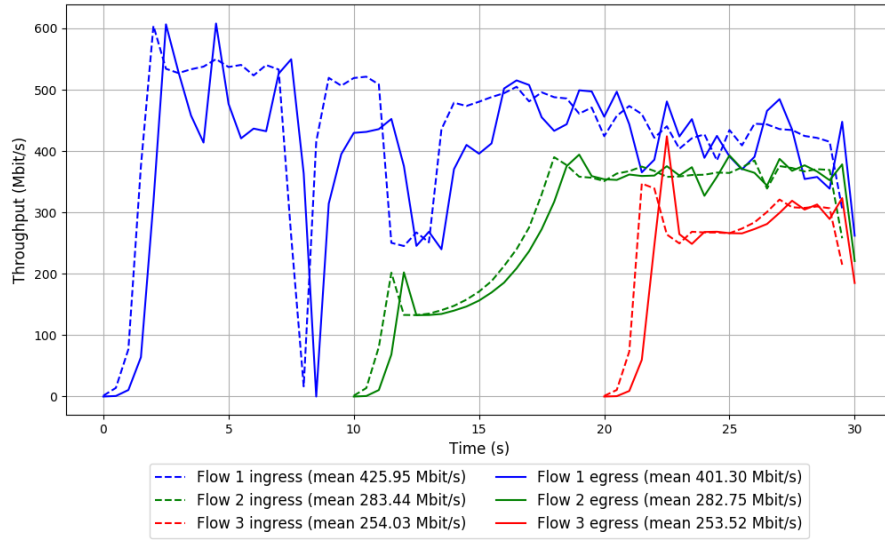


Run 2: Statistics of PCC-Allegro

Start at: 2019-10-03 11:39:38  
End at: 2019-10-03 11:40:08  
Local clock offset: -0.144 ms  
Remote clock offset: -0.227 ms

```
# Below is generated by plot.py at 2019-10-03 16:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 671.41 Mbit/s
95th percentile per-packet one-way delay: 191.112 ms
Loss rate: 4.17%
-- Flow 1:
Average throughput: 401.30 Mbit/s
95th percentile per-packet one-way delay: 198.524 ms
Loss rate: 6.18%
-- Flow 2:
Average throughput: 282.75 Mbit/s
95th percentile per-packet one-way delay: 112.739 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 253.52 Mbit/s
95th percentile per-packet one-way delay: 123.773 ms
Loss rate: 1.43%
```

Run 2: Report of PCC-Allegro — Data Link

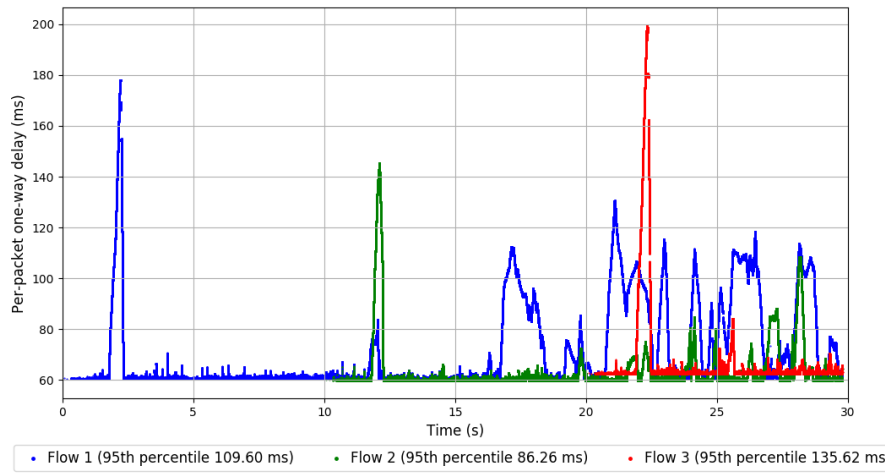
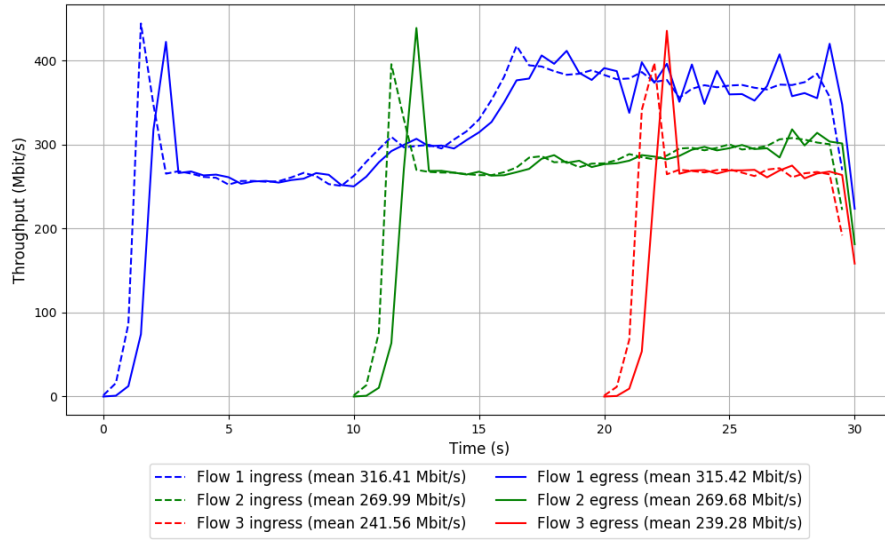


Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 12:19:52  
End at: 2019-10-03 12:20:22  
Local clock offset: -0.062 ms  
Remote clock offset: -0.109 ms

```
# Below is generated by plot.py at 2019-10-03 16:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 572.35 Mbit/s
95th percentile per-packet one-way delay: 108.609 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 315.42 Mbit/s
95th percentile per-packet one-way delay: 109.598 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 269.68 Mbit/s
95th percentile per-packet one-way delay: 86.256 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 239.28 Mbit/s
95th percentile per-packet one-way delay: 135.618 ms
Loss rate: 2.19%
```

### Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 12:59:11

End at: 2019-10-03 12:59:41

Local clock offset: -0.002 ms

Remote clock offset: 0.109 ms

# Below is generated by plot.py at 2019-10-03 16:35:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 552.70 Mbit/s

95th percentile per-packet one-way delay: 159.567 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 314.43 Mbit/s

95th percentile per-packet one-way delay: 161.296 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 292.03 Mbit/s

95th percentile per-packet one-way delay: 161.284 ms

Loss rate: 1.33%

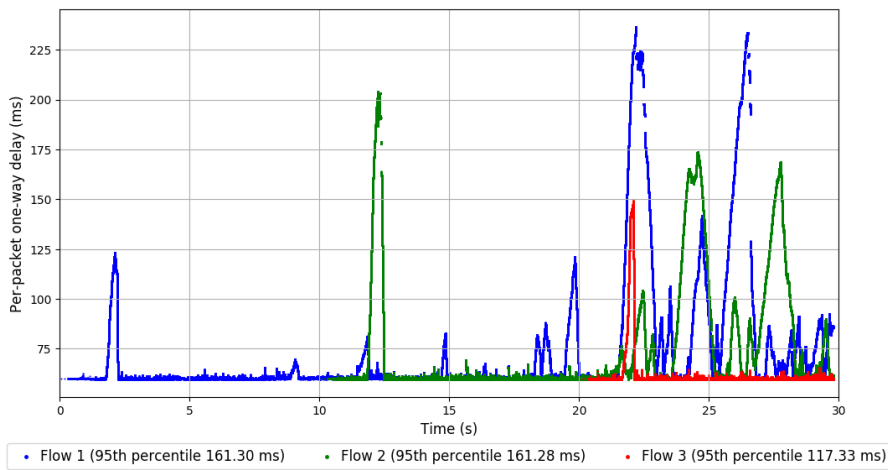
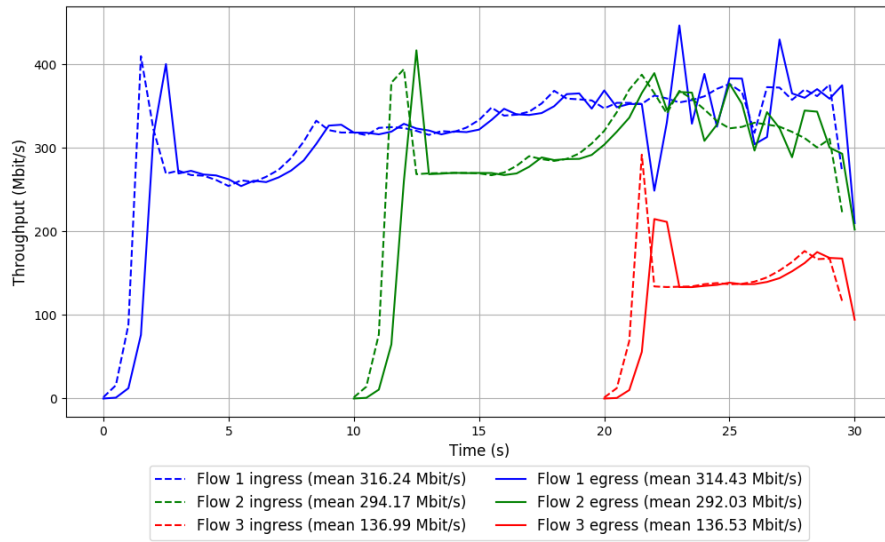
-- Flow 3:

Average throughput: 136.53 Mbit/s

95th percentile per-packet one-way delay: 117.325 ms

Loss rate: 1.56%

Run 4: Report of PCC-Allegro — Data Link



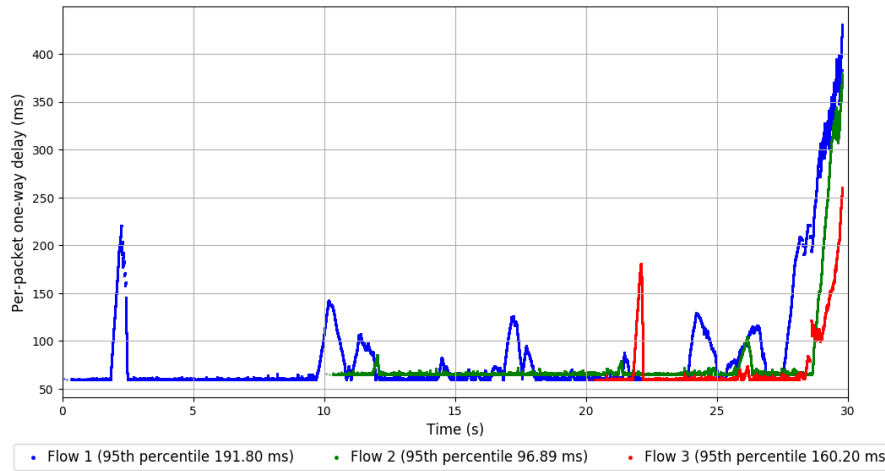
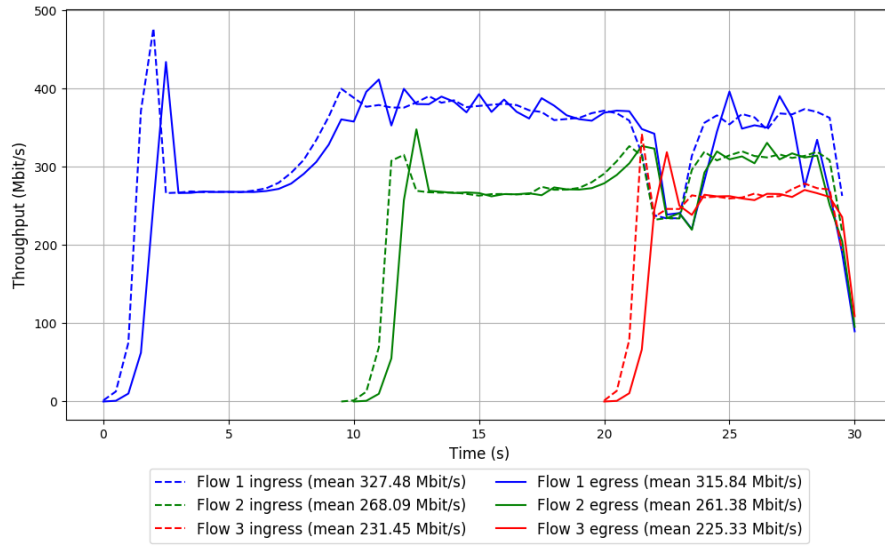


Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 13:38:56  
End at: 2019-10-03 13:39:26  
Local clock offset: -0.018 ms  
Remote clock offset: -0.126 ms

```
# Below is generated by plot.py at 2019-10-03 16:35:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 562.81 Mbit/s
95th percentile per-packet one-way delay: 164.536 ms
Loss rate: 3.69%
-- Flow 1:
Average throughput: 315.84 Mbit/s
95th percentile per-packet one-way delay: 191.801 ms
Loss rate: 3.95%
-- Flow 2:
Average throughput: 261.38 Mbit/s
95th percentile per-packet one-way delay: 96.888 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 225.33 Mbit/s
95th percentile per-packet one-way delay: 160.197 ms
Loss rate: 3.86%
```

Run 5: Report of PCC-Allegro — Data Link



Run 1: Statistics of PCC-Expr

Start at: 2019-10-03 11:11:12

End at: 2019-10-03 11:11:42

Local clock offset: -0.106 ms

Remote clock offset: 0.135 ms

# Below is generated by plot.py at 2019-10-03 16:35:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 407.42 Mbit/s

95th percentile per-packet one-way delay: 78.792 ms

Loss rate: 0.81%

-- Flow 1:

Average throughput: 233.13 Mbit/s

95th percentile per-packet one-way delay: 79.916 ms

Loss rate: 0.44%

-- Flow 2:

Average throughput: 200.56 Mbit/s

95th percentile per-packet one-way delay: 75.230 ms

Loss rate: 0.86%

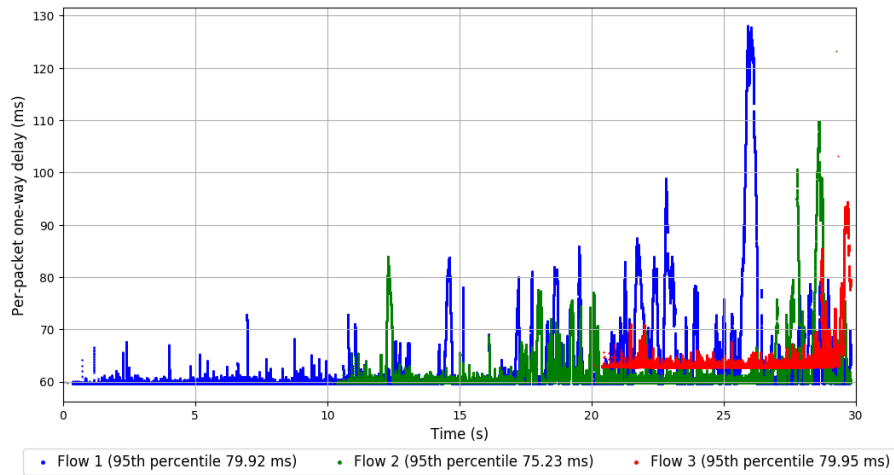
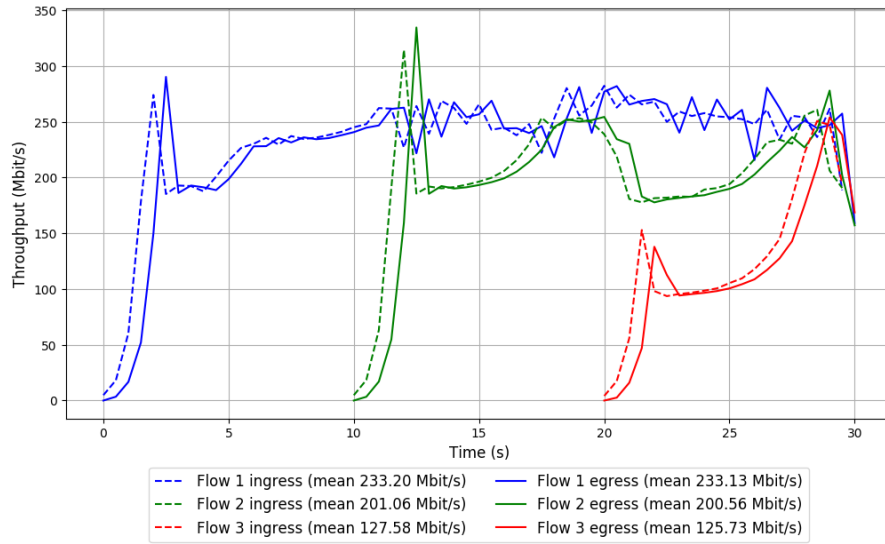
-- Flow 3:

Average throughput: 125.73 Mbit/s

95th percentile per-packet one-way delay: 79.949 ms

Loss rate: 2.69%

# Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-10-03 11:51:21  
End at: 2019-10-03 11:51:51  
Local clock offset: -0.113 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-10-03 16:35:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 449.03 Mbit/s  
95th percentile per-packet one-way delay: 110.068 ms  
Loss rate: 0.87%

-- Flow 1:

Average throughput: 256.08 Mbit/s  
95th percentile per-packet one-way delay: 135.362 ms  
Loss rate: 0.74%

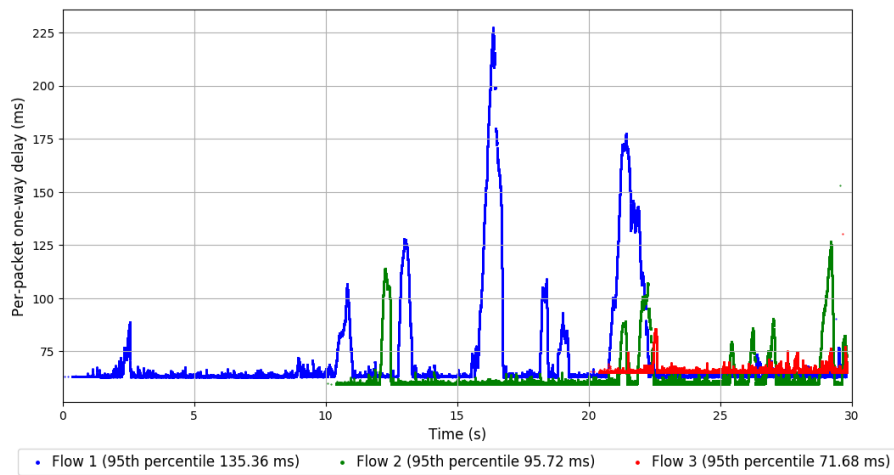
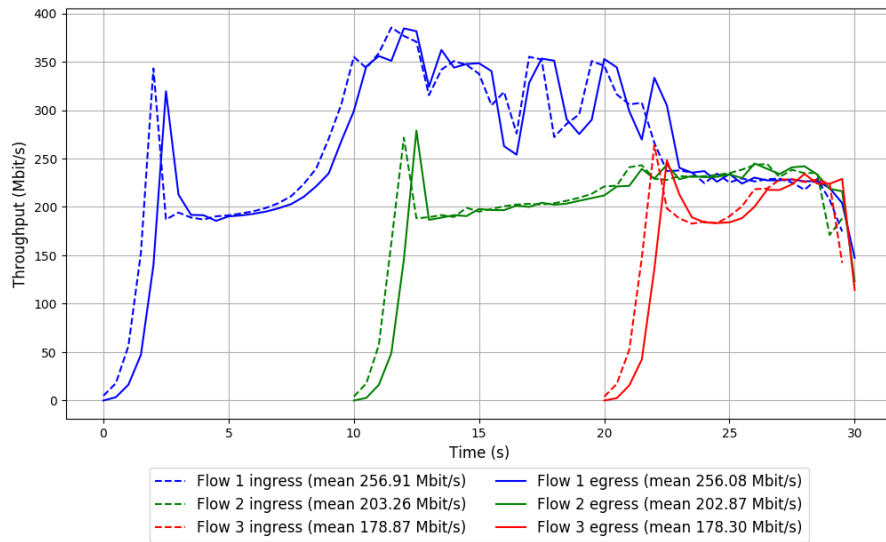
-- Flow 2:

Average throughput: 202.87 Mbit/s  
95th percentile per-packet one-way delay: 95.720 ms  
Loss rate: 0.80%

-- Flow 3:

Average throughput: 178.30 Mbit/s  
95th percentile per-packet one-way delay: 71.679 ms  
Loss rate: 1.61%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 12:31:10  
End at: 2019-10-03 12:31:40  
Local clock offset: -0.022 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2019-10-03 16:35:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 424.06 Mbit/s  
95th percentile per-packet one-way delay: 95.958 ms  
Loss rate: 0.67%

-- Flow 1:

Average throughput: 235.19 Mbit/s  
95th percentile per-packet one-way delay: 106.513 ms  
Loss rate: 0.42%

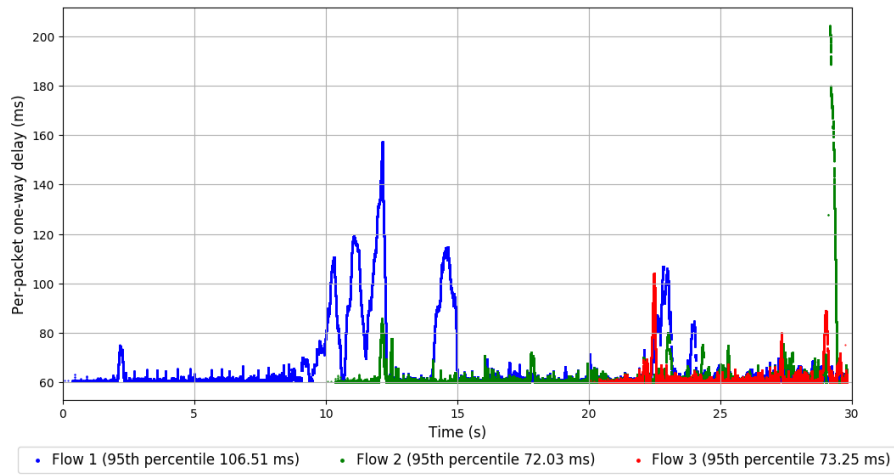
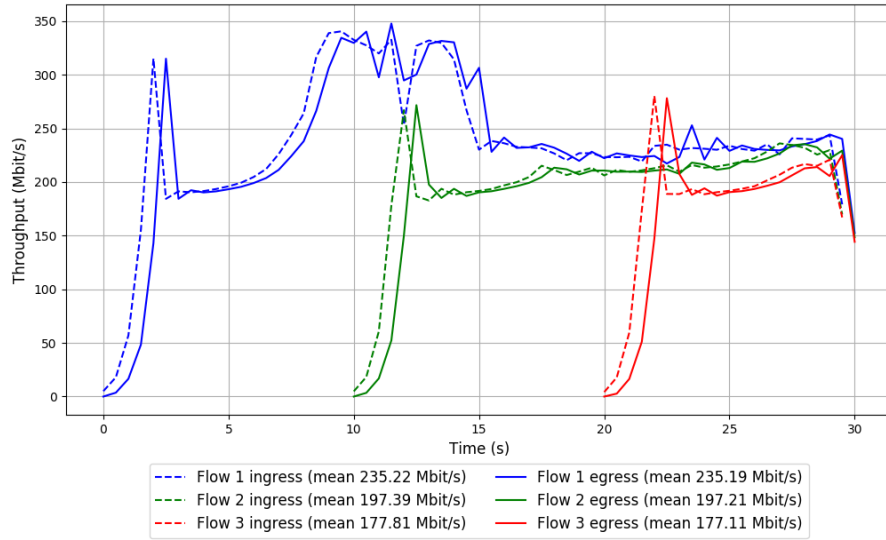
-- Flow 2:

Average throughput: 197.21 Mbit/s  
95th percentile per-packet one-way delay: 72.031 ms  
Loss rate: 0.70%

-- Flow 3:

Average throughput: 177.11 Mbit/s  
95th percentile per-packet one-way delay: 73.250 ms  
Loss rate: 1.62%

### Run 3: Report of PCC-Expr — Data Link





Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 13:10:45  
End at: 2019-10-03 13:11:15  
Local clock offset: -0.022 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 496.68 Mbit/s  
95th percentile per-packet one-way delay: 110.930 ms  
Loss rate: 1.35%

-- Flow 1:

Average throughput: 312.08 Mbit/s  
95th percentile per-packet one-way delay: 126.092 ms  
Loss rate: 1.67%

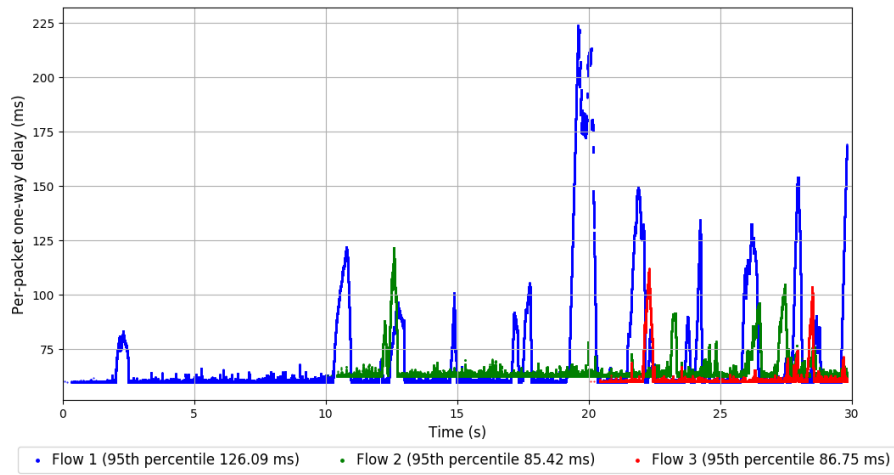
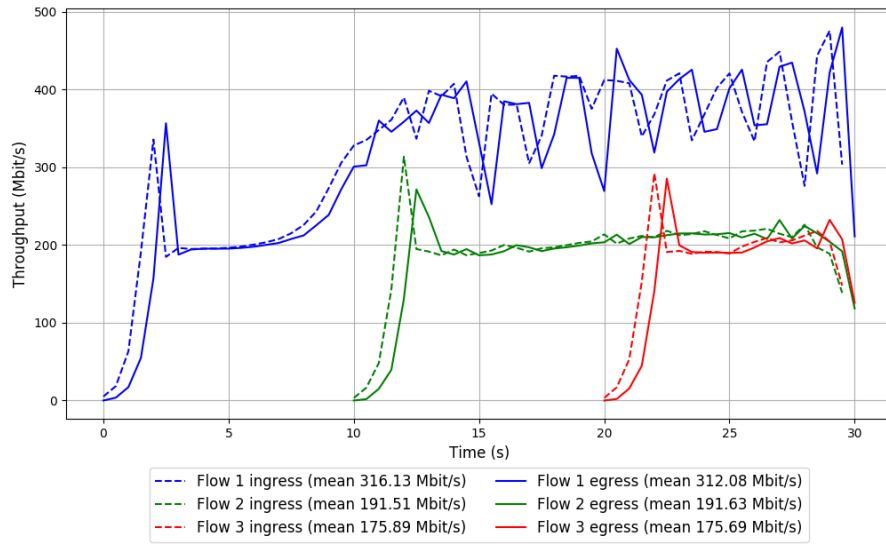
-- Flow 2:

Average throughput: 191.63 Mbit/s  
95th percentile per-packet one-way delay: 85.423 ms  
Loss rate: 0.56%

-- Flow 3:

Average throughput: 175.69 Mbit/s  
95th percentile per-packet one-way delay: 86.753 ms  
Loss rate: 1.34%

### Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 13:50:37  
End at: 2019-10-03 13:51:07  
Local clock offset: -0.013 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 413.70 Mbit/s  
95th percentile per-packet one-way delay: 146.302 ms  
Loss rate: 1.78%

-- Flow 1:

Average throughput: 246.49 Mbit/s  
95th percentile per-packet one-way delay: 153.644 ms  
Loss rate: 2.03%

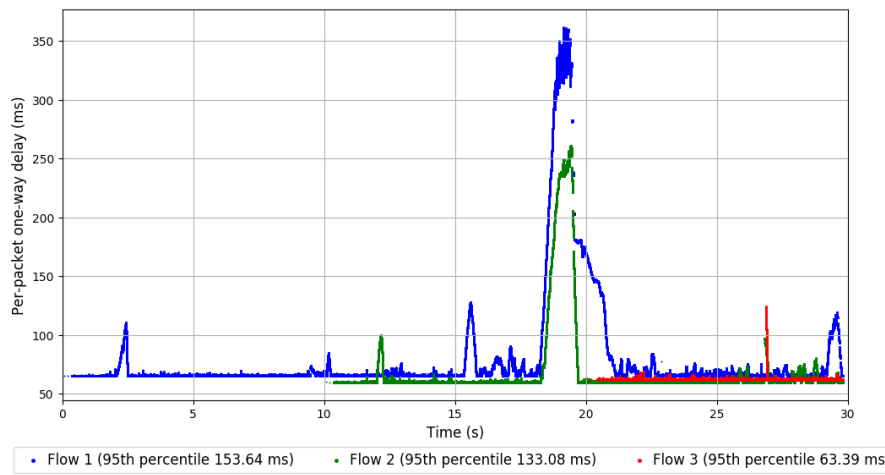
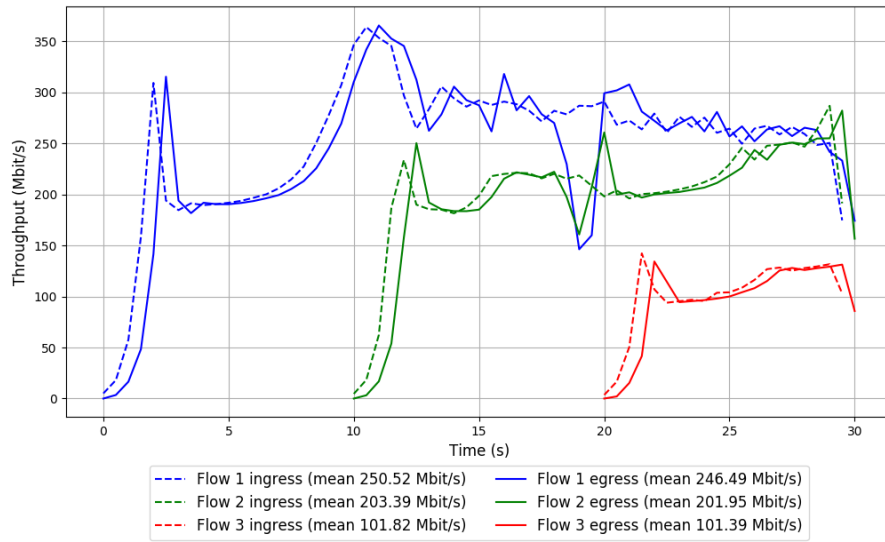
-- Flow 2:

Average throughput: 201.95 Mbit/s  
95th percentile per-packet one-way delay: 133.084 ms  
Loss rate: 1.33%

-- Flow 3:

Average throughput: 101.39 Mbit/s  
95th percentile per-packet one-way delay: 63.388 ms  
Loss rate: 1.69%

### Run 5: Report of PCC-Expr — Data Link



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-03 11:07:55

End at: 2019-10-03 11:08:25

Local clock offset: -0.088 ms

Remote clock offset: 0.667 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.10 Mbit/s

95th percentile per-packet one-way delay: 62.477 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 47.76 Mbit/s

95th percentile per-packet one-way delay: 62.464 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 43.52 Mbit/s

95th percentile per-packet one-way delay: 62.562 ms

Loss rate: 1.10%

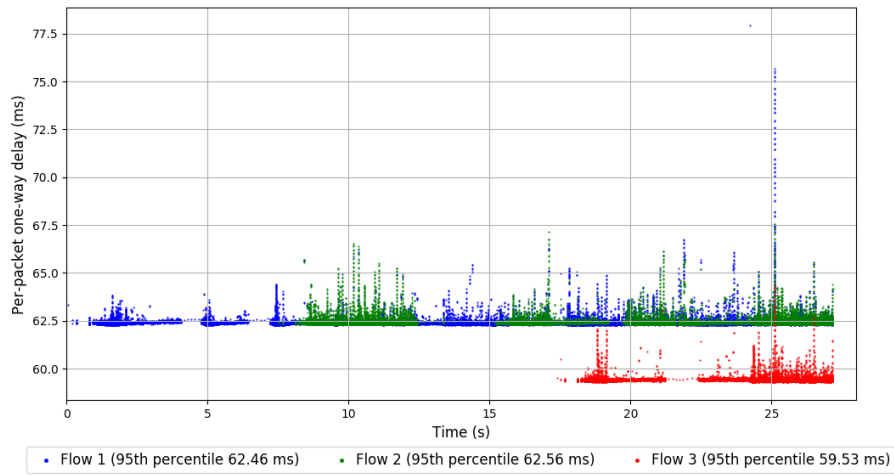
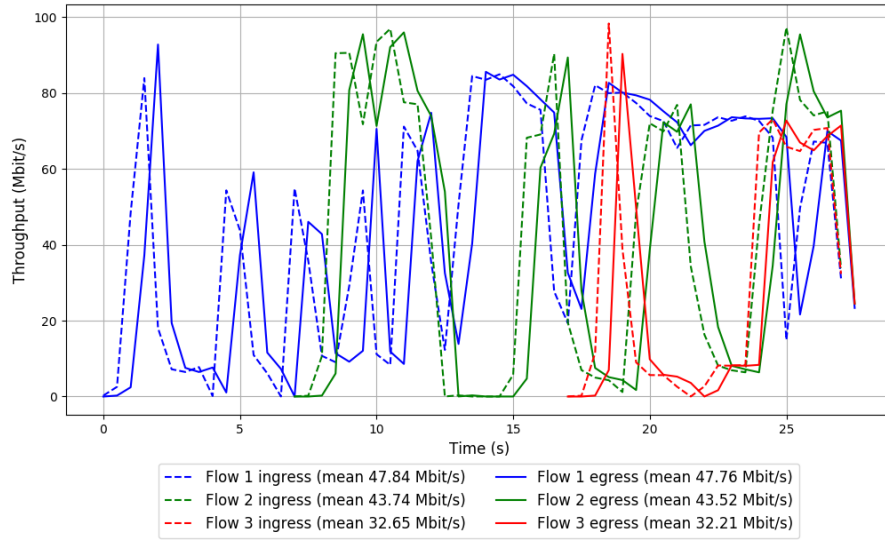
-- Flow 3:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 59.534 ms

Loss rate: 2.57%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-03 11:48:06

End at: 2019-10-03 11:48:36

Local clock offset: -0.09 ms

Remote clock offset: -0.214 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.59 Mbit/s

95th percentile per-packet one-way delay: 63.110 ms

Loss rate: 0.65%

-- Flow 1:

Average throughput: 59.72 Mbit/s

95th percentile per-packet one-way delay: 62.577 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 57.07 Mbit/s

95th percentile per-packet one-way delay: 63.196 ms

Loss rate: 0.81%

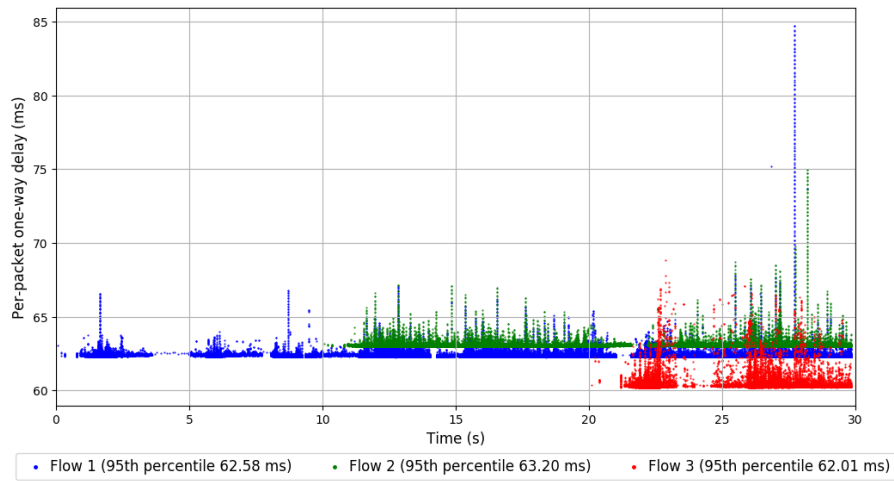
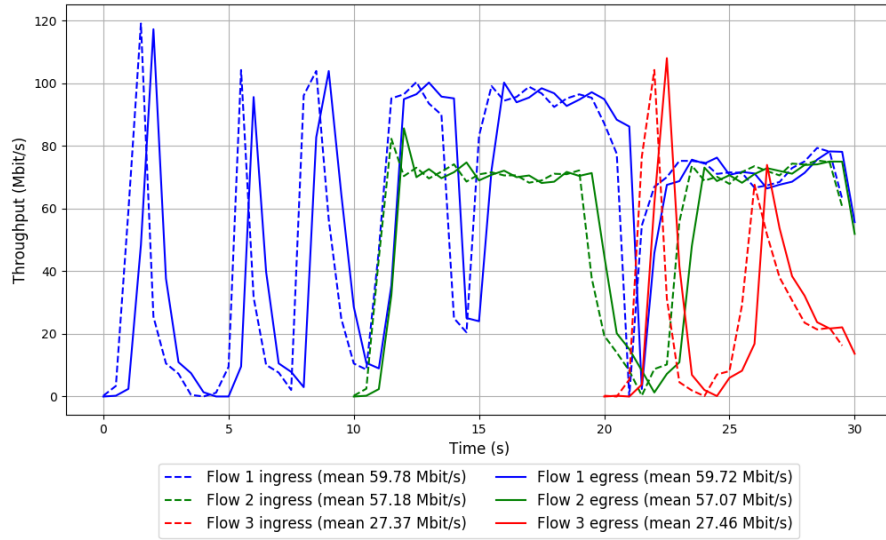
-- Flow 3:

Average throughput: 27.46 Mbit/s

95th percentile per-packet one-way delay: 62.010 ms

Loss rate: 0.92%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 12:28:13  
End at: 2019-10-03 12:28:43  
Local clock offset: -0.094 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.19 Mbit/s  
95th percentile per-packet one-way delay: 62.334 ms  
Loss rate: 0.48%

-- Flow 1:

Average throughput: 53.23 Mbit/s  
95th percentile per-packet one-way delay: 62.339 ms  
Loss rate: 0.56%

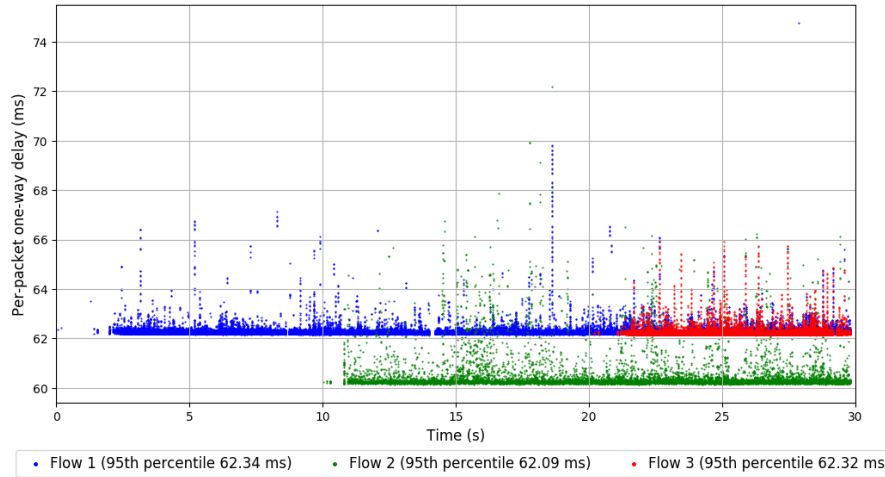
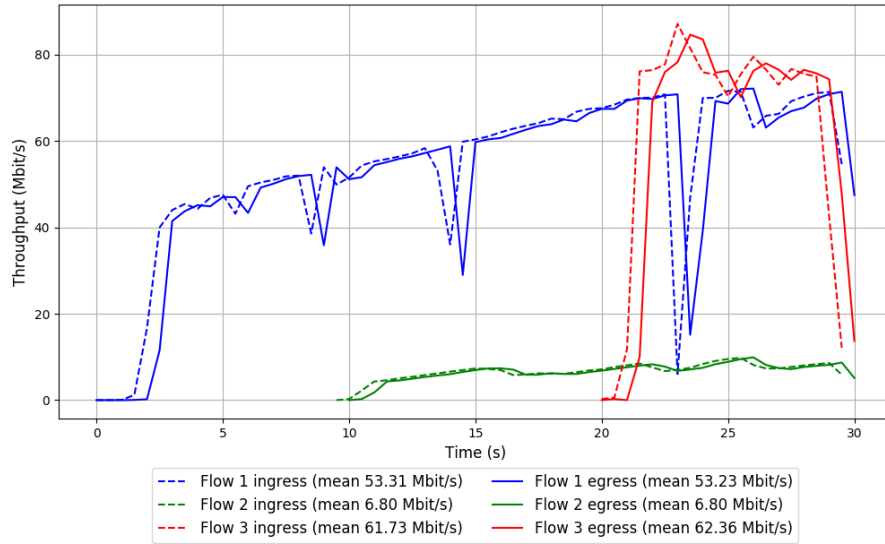
-- Flow 2:

Average throughput: 6.80 Mbit/s  
95th percentile per-packet one-way delay: 62.094 ms  
Loss rate: 0.71%

-- Flow 3:

Average throughput: 62.36 Mbit/s  
95th percentile per-packet one-way delay: 62.316 ms  
Loss rate: 0.22%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 13:07:30

End at: 2019-10-03 13:08:00

Local clock offset: -0.037 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 103.35 Mbit/s

95th percentile per-packet one-way delay: 62.834 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 62.559 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 41.03 Mbit/s

95th percentile per-packet one-way delay: 62.965 ms

Loss rate: 1.13%

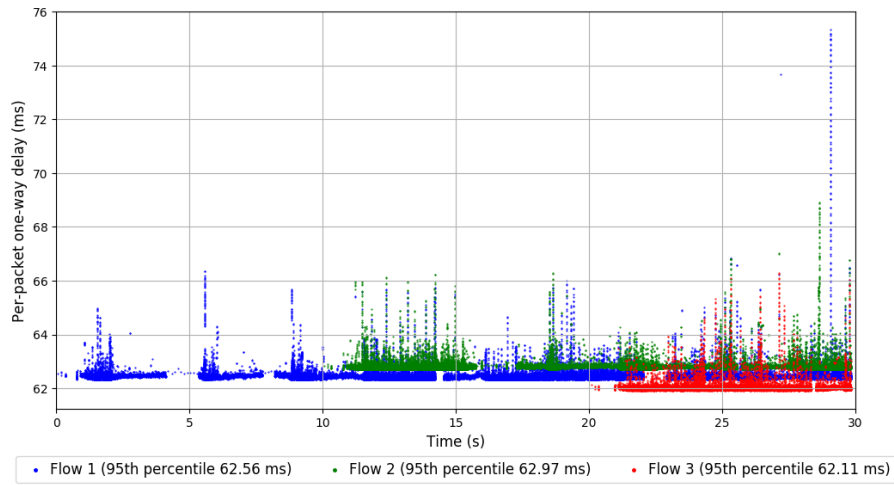
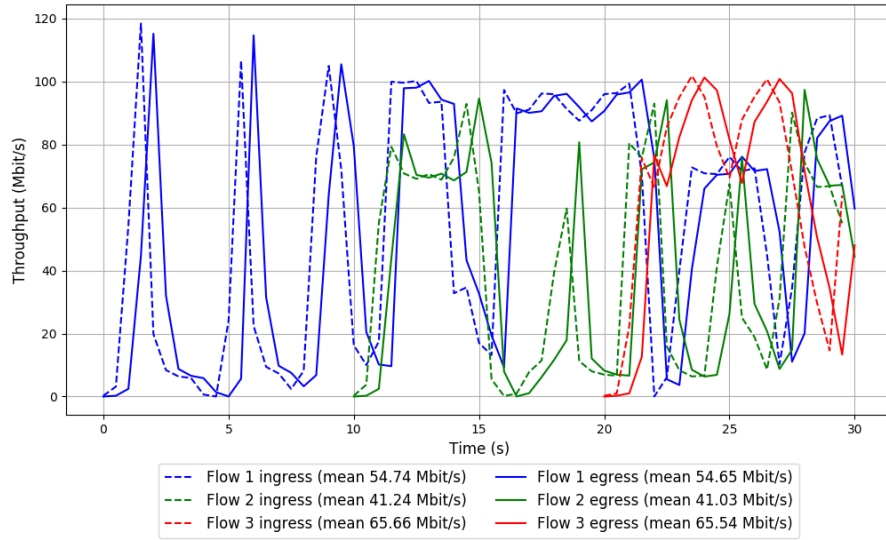
-- Flow 3:

Average throughput: 65.54 Mbit/s

95th percentile per-packet one-way delay: 62.110 ms

Loss rate: 1.42%

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

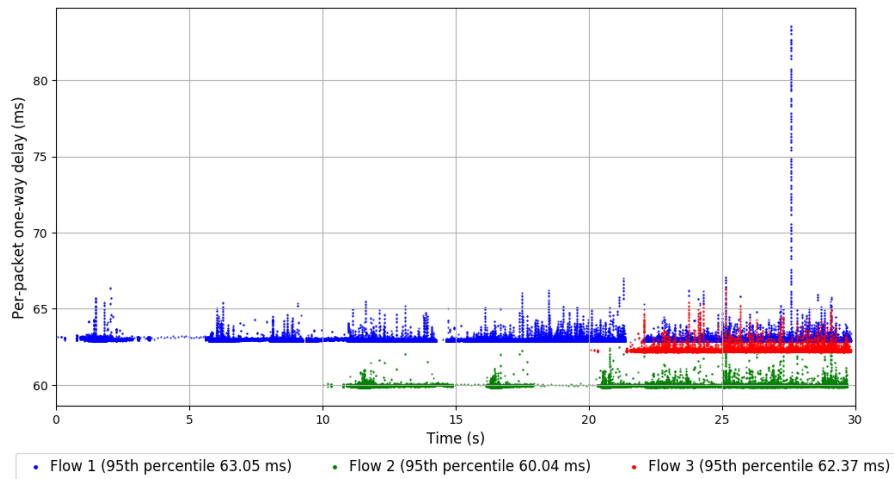
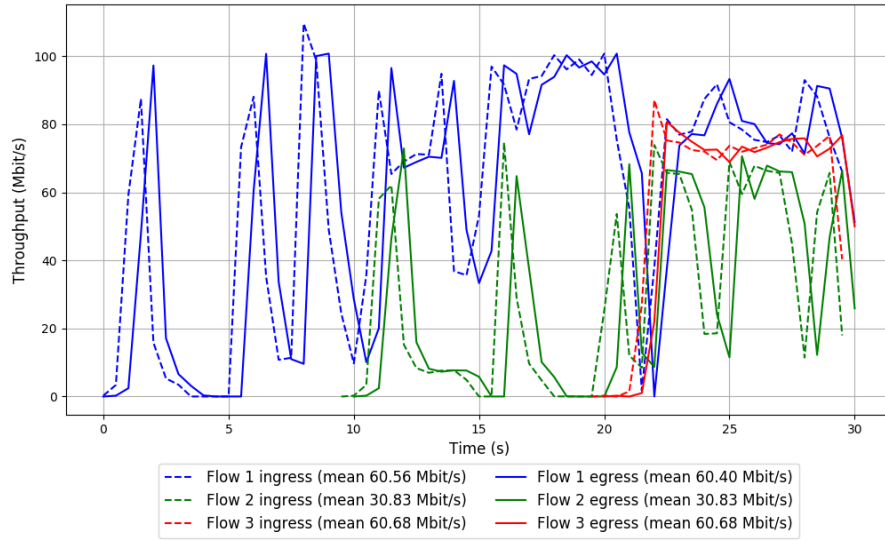


Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 13:47:19  
End at: 2019-10-03 13:47:49  
Local clock offset: -0.016 ms  
Remote clock offset: -0.125 ms

```
# Below is generated by plot.py at 2019-10-03 16:46:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.65 Mbit/s
95th percentile per-packet one-way delay: 63.007 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 60.40 Mbit/s
95th percentile per-packet one-way delay: 63.047 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 30.83 Mbit/s
95th percentile per-packet one-way delay: 60.042 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 60.68 Mbit/s
95th percentile per-packet one-way delay: 62.372 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of SCReAM

Start at: 2019-10-03 10:58:24  
End at: 2019-10-03 10:58:54  
Local clock offset: -0.056 ms  
Remote clock offset: -0.685 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 66.285 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 66.307 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.164 ms

Loss rate: 0.61%

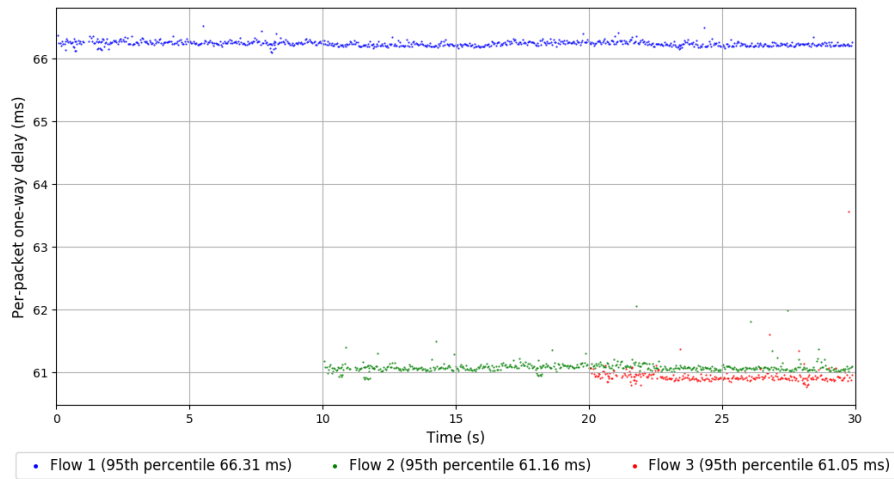
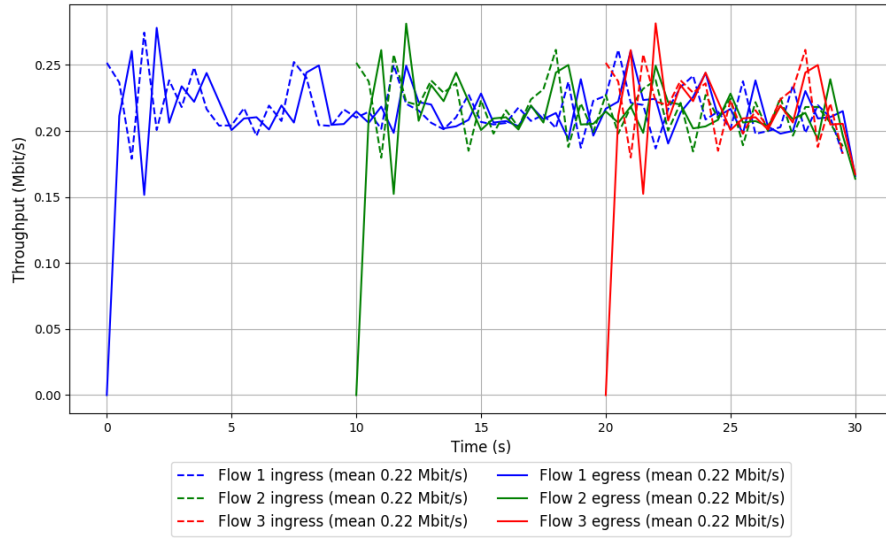
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 61.049 ms

Loss rate: 1.08%

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





Run 2: Statistics of SCReAM

Start at: 2019-10-03 11:38:26

End at: 2019-10-03 11:38:56

Local clock offset: -0.127 ms

Remote clock offset: 0.048 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 62.610 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.932 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.957 ms

Loss rate: 0.61%

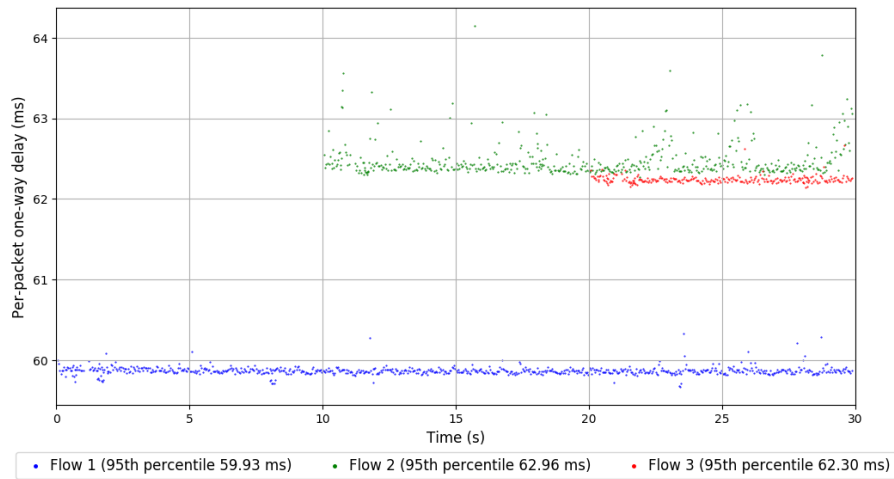
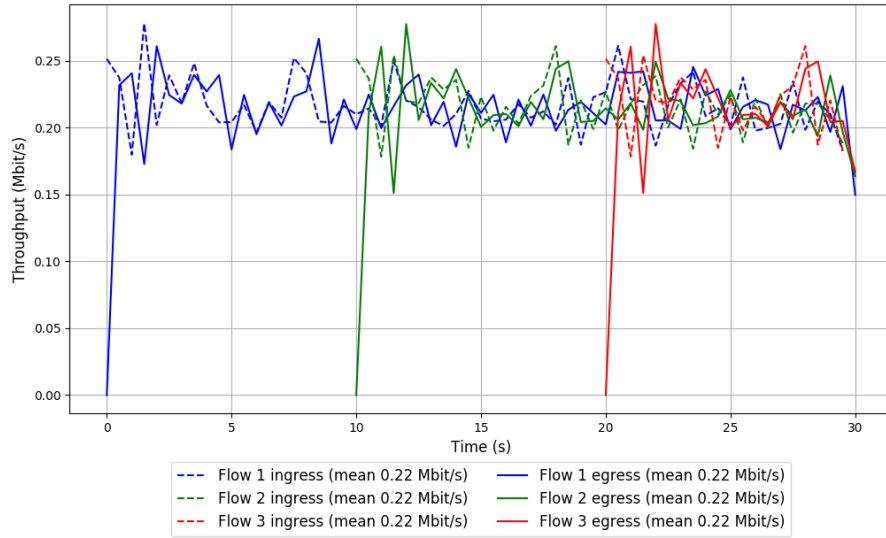
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.302 ms

Loss rate: 1.08%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 12:18:40  
End at: 2019-10-03 12:19:10  
Local clock offset: -0.085 ms  
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 65.606 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 60.413 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 63.270 ms

Loss rate: 0.61%

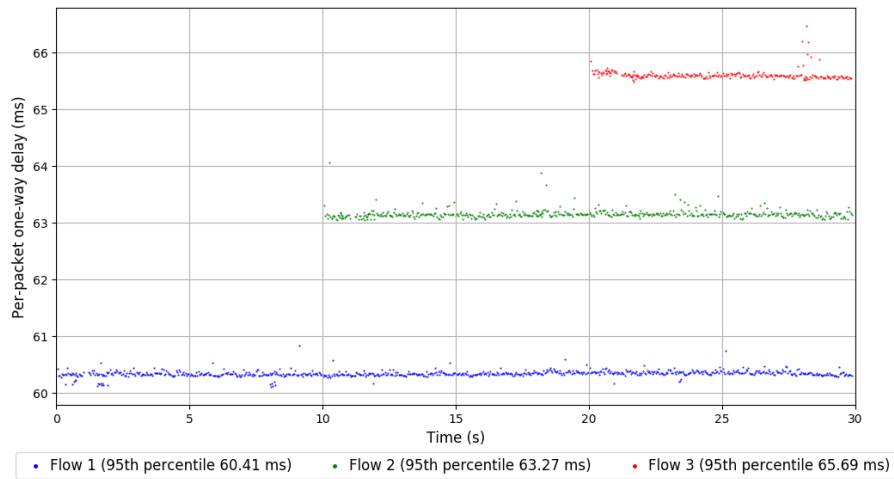
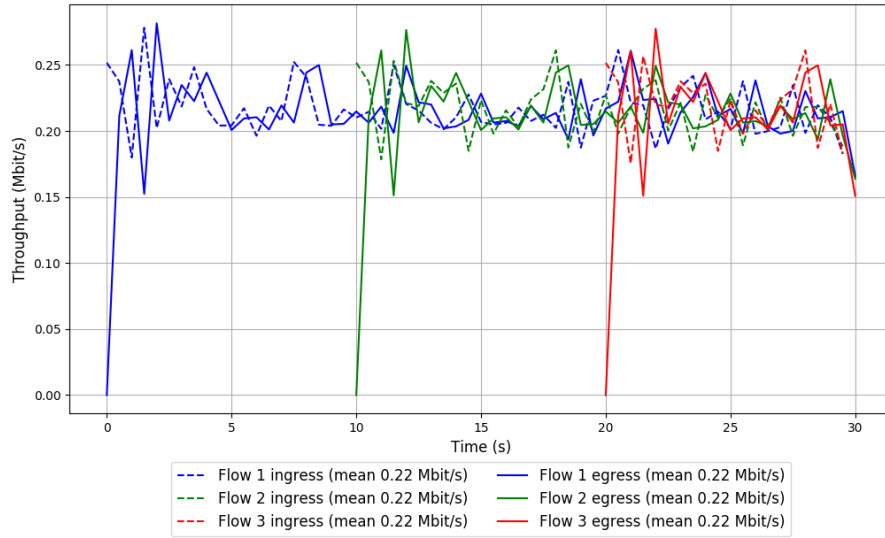
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 65.687 ms

Loss rate: 1.45%

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



Run 4: Statistics of SCReAM

Start at: 2019-10-03 12:57:59

End at: 2019-10-03 12:58:29

Local clock offset: -0.019 ms

Remote clock offset: 0.592 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 62.541 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.588 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 59.693 ms

Loss rate: 0.61%

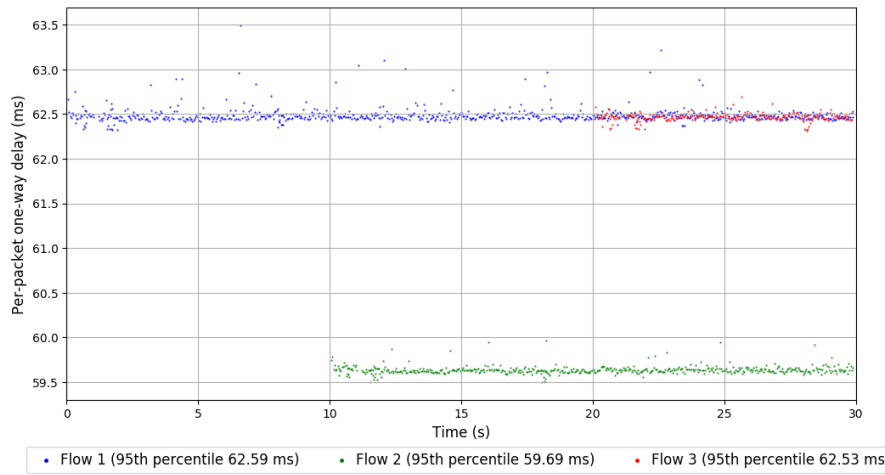
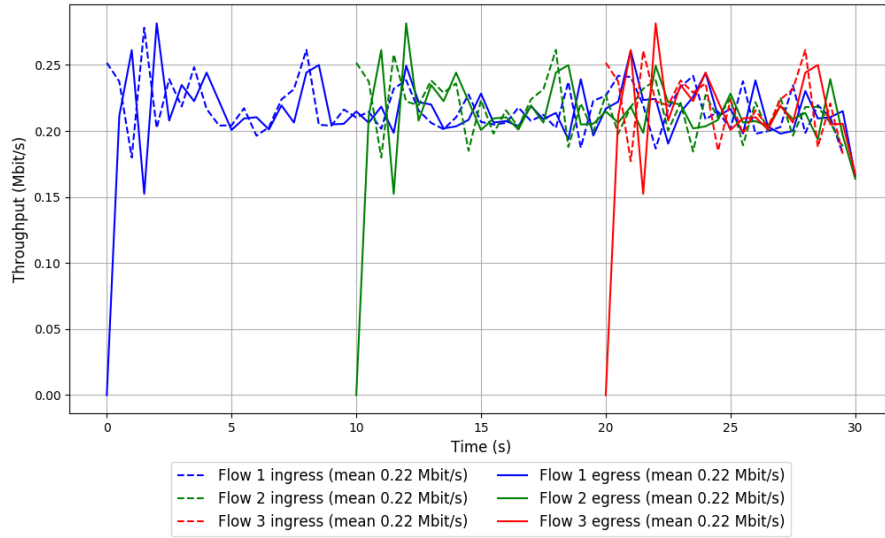
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 62.532 ms

Loss rate: 1.08%

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

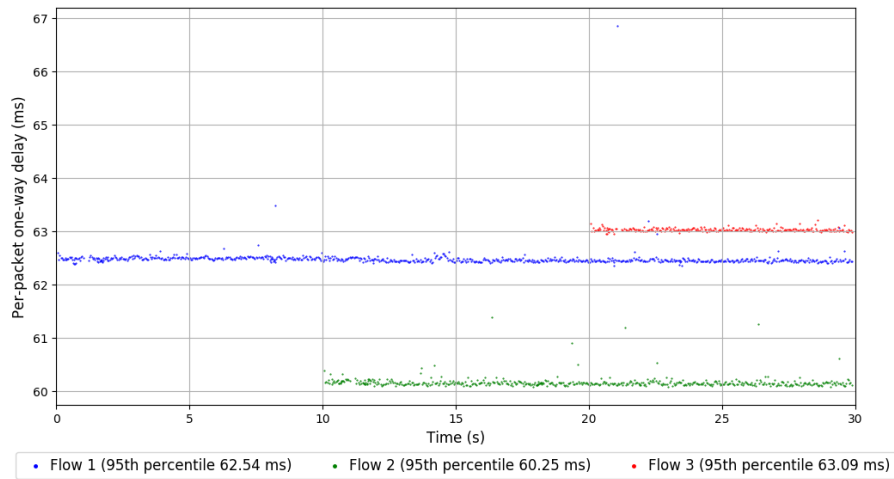
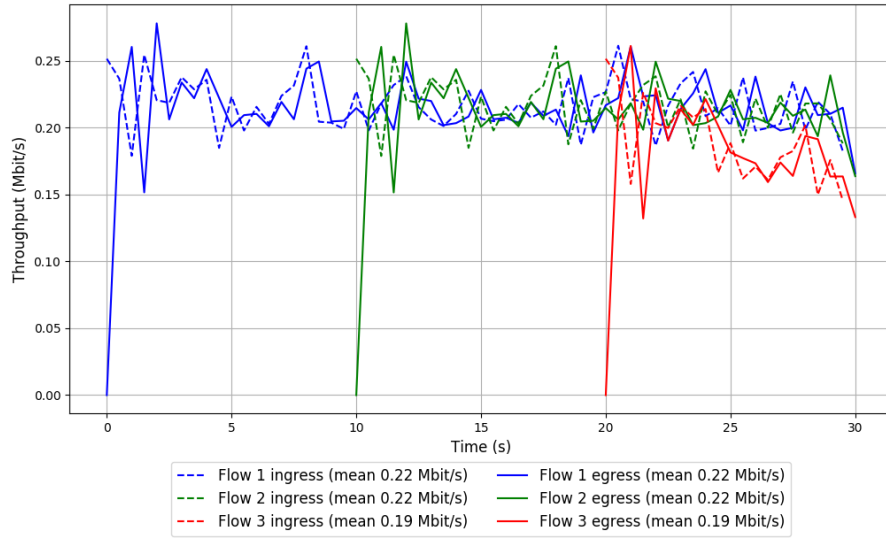


Run 5: Statistics of SCReAM

Start at: 2019-10-03 13:37:44  
End at: 2019-10-03 13:38:14  
Local clock offset: -0.003 ms  
Remote clock offset: -0.167 ms

```
# Below is generated by plot.py at 2019-10-03 16:46:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 63.042 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 62.540 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.249 ms
Loss rate: 0.61%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 63.090 ms
Loss rate: 1.53%
```

### Run 5: Report of SCReAM — Data Link





Run 1: Statistics of Sprout

Start at: 2019-10-03 10:55:18

End at: 2019-10-03 10:55:48

Local clock offset: -0.068 ms

Remote clock offset: 0.064 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.60 Mbit/s

95th percentile per-packet one-way delay: 63.890 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 6.95 Mbit/s

95th percentile per-packet one-way delay: 64.105 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 6.81 Mbit/s

95th percentile per-packet one-way delay: 60.908 ms

Loss rate: 0.88%

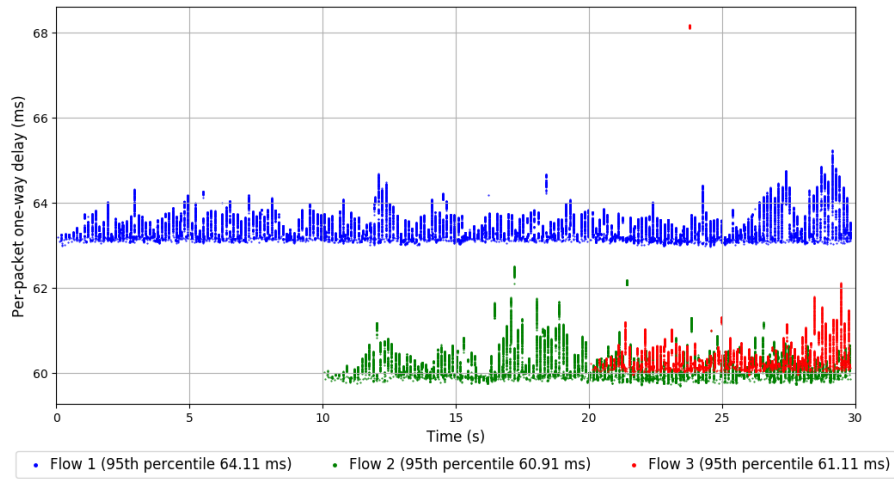
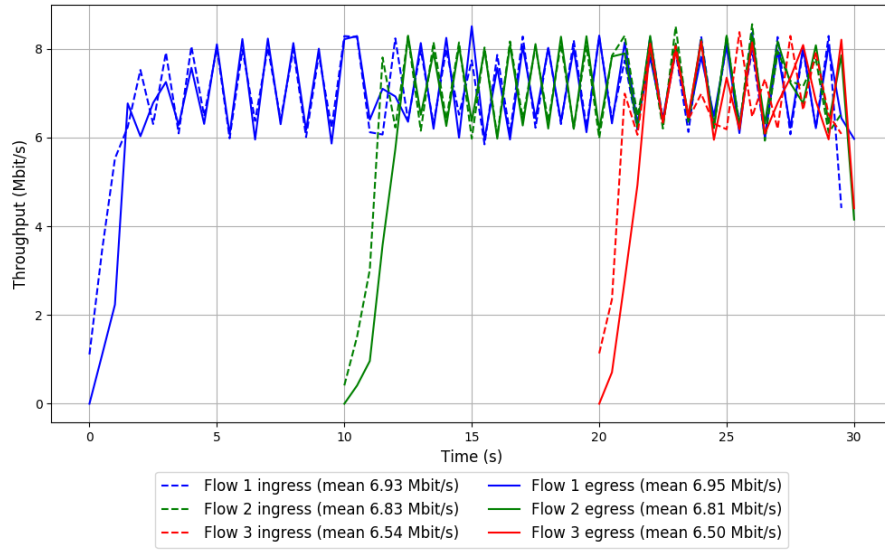
-- Flow 3:

Average throughput: 6.50 Mbit/s

95th percentile per-packet one-way delay: 61.107 ms

Loss rate: 1.53%

Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-03 11:35:17  
End at: 2019-10-03 11:35:47  
Local clock offset: -0.13 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.86 Mbit/s  
95th percentile per-packet one-way delay: 63.706 ms  
Loss rate: 0.12%

-- Flow 1:

Average throughput: 7.09 Mbit/s  
95th percentile per-packet one-way delay: 60.979 ms  
Loss rate: 0.05%

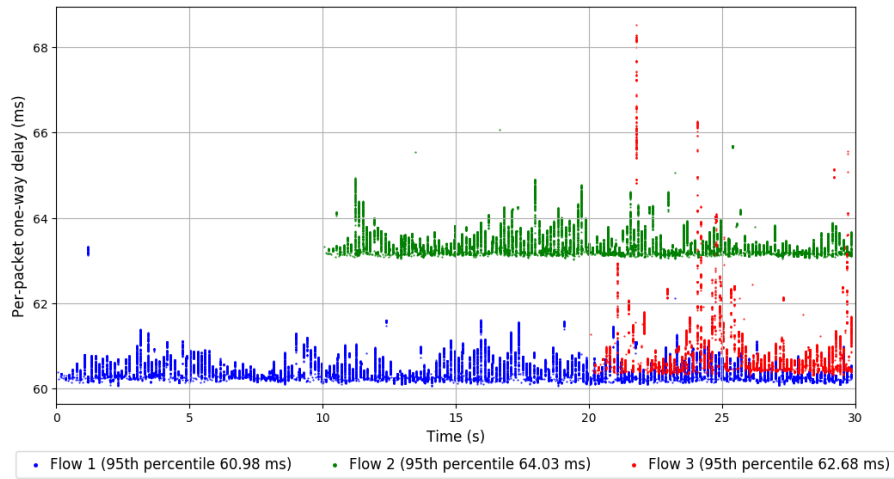
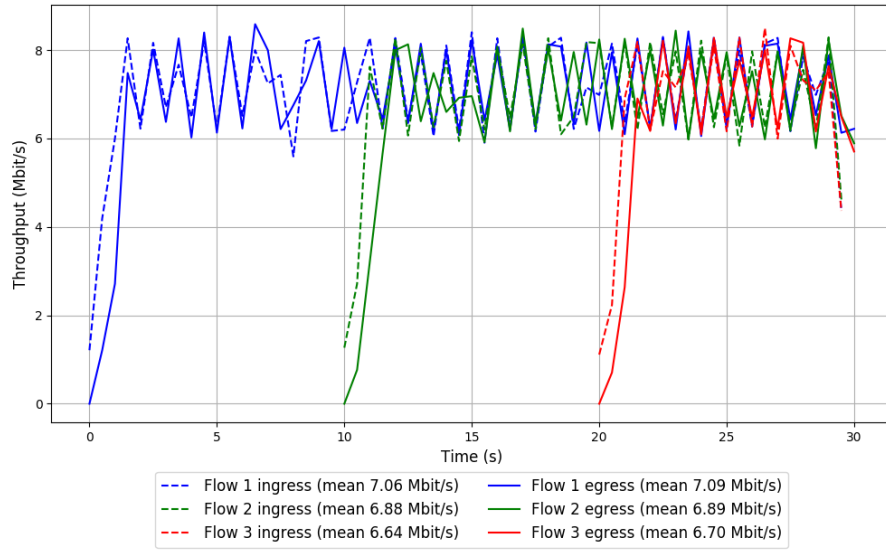
-- Flow 2:

Average throughput: 6.89 Mbit/s  
95th percentile per-packet one-way delay: 64.034 ms  
Loss rate: 0.18%

-- Flow 3:

Average throughput: 6.70 Mbit/s  
95th percentile per-packet one-way delay: 62.679 ms  
Loss rate: 0.21%

## Run 2: Report of Sprout — Data Link

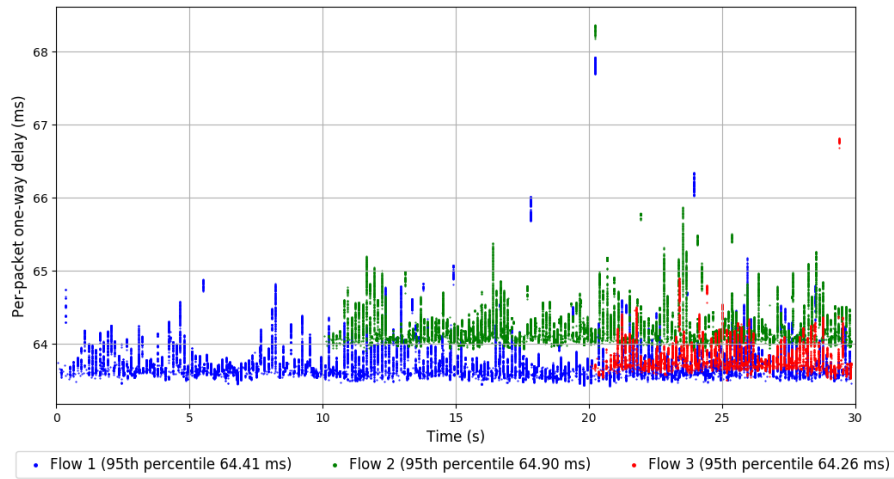
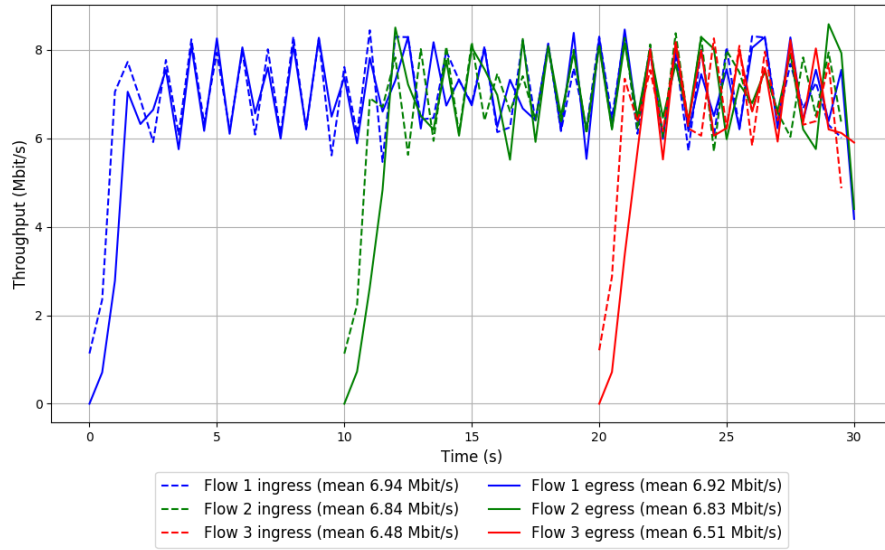


Run 3: Statistics of Sprout

Start at: 2019-10-03 12:15:32  
End at: 2019-10-03 12:16:02  
Local clock offset: -0.048 ms  
Remote clock offset: -0.749 ms

```
# Below is generated by plot.py at 2019-10-03 16:46:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.59 Mbit/s
95th percentile per-packet one-way delay: 64.660 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 6.92 Mbit/s
95th percentile per-packet one-way delay: 64.408 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 6.83 Mbit/s
95th percentile per-packet one-way delay: 64.902 ms
Loss rate: 0.72%
-- Flow 3:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 64.262 ms
Loss rate: 0.70%
```

Run 3: Report of Sprout — Data Link



Run 4: Statistics of Sprout

Start at: 2019-10-03 12:54:55

End at: 2019-10-03 12:55:25

Local clock offset: -0.078 ms

Remote clock offset: -0.2 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.57 Mbit/s

95th percentile per-packet one-way delay: 63.174 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 6.94 Mbit/s

95th percentile per-packet one-way delay: 63.177 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 6.75 Mbit/s

95th percentile per-packet one-way delay: 63.196 ms

Loss rate: 0.75%

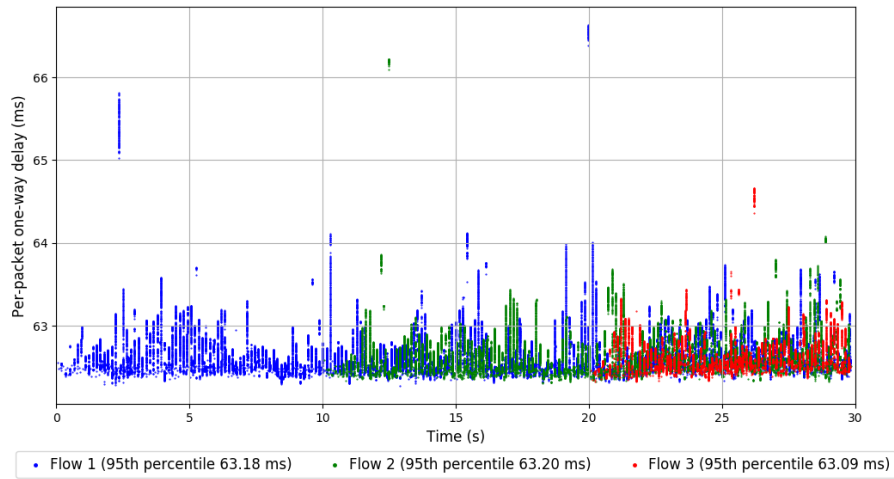
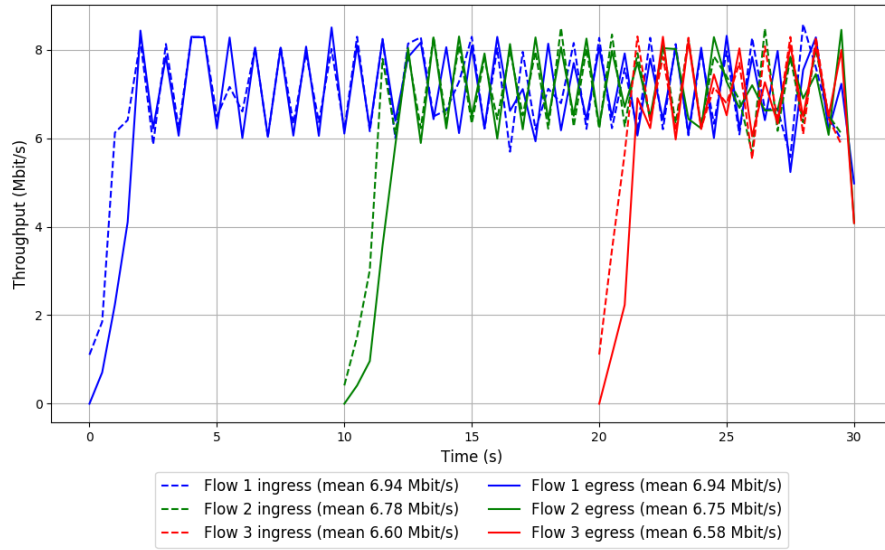
-- Flow 3:

Average throughput: 6.58 Mbit/s

95th percentile per-packet one-way delay: 63.093 ms

Loss rate: 1.55%

Run 4: Report of Sprout — Data Link





Run 5: Statistics of Sprout

Start at: 2019-10-03 13:34:41  
End at: 2019-10-03 13:35:11  
Local clock offset: -0.002 ms  
Remote clock offset: -0.169 ms

# Below is generated by plot.py at 2019-10-03 16:46:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 13.47 Mbit/s  
95th percentile per-packet one-way delay: 63.078 ms  
Loss rate: 0.62%

-- Flow 1:

Average throughput: 6.83 Mbit/s  
95th percentile per-packet one-way delay: 63.190 ms  
Loss rate: 0.54%

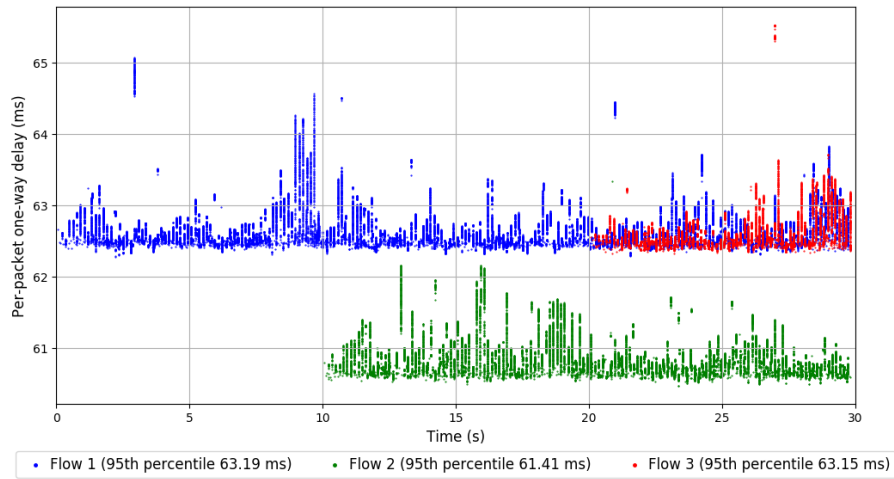
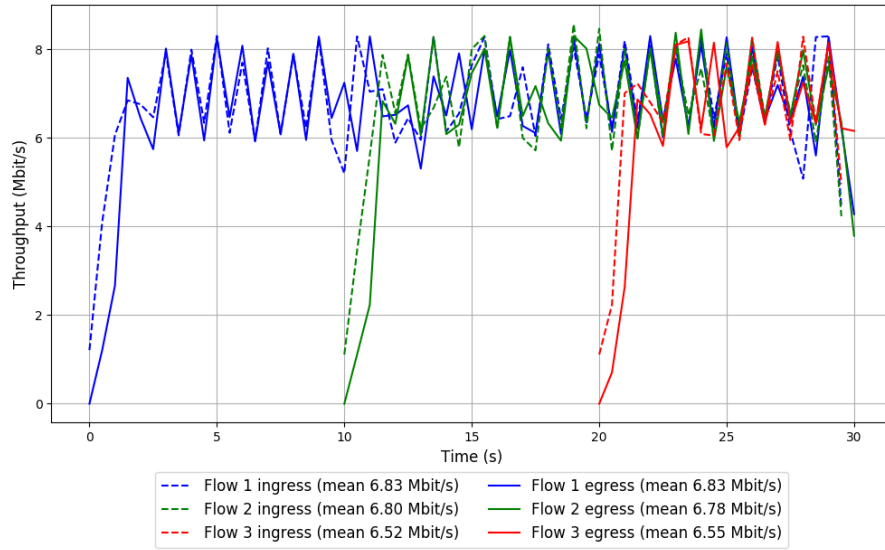
-- Flow 2:

Average throughput: 6.78 Mbit/s  
95th percentile per-packet one-way delay: 61.407 ms  
Loss rate: 0.71%

-- Flow 3:

Average throughput: 6.55 Mbit/s  
95th percentile per-packet one-way delay: 63.145 ms  
Loss rate: 0.68%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-10-03 10:50:27  
End at: 2019-10-03 10:50:57  
Local clock offset: -0.05 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-10-03 16:50:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 411.32 Mbit/s  
95th percentile per-packet one-way delay: 66.920 ms  
Loss rate: 0.61%

-- Flow 1:

Average throughput: 208.80 Mbit/s  
95th percentile per-packet one-way delay: 64.990 ms  
Loss rate: 0.38%

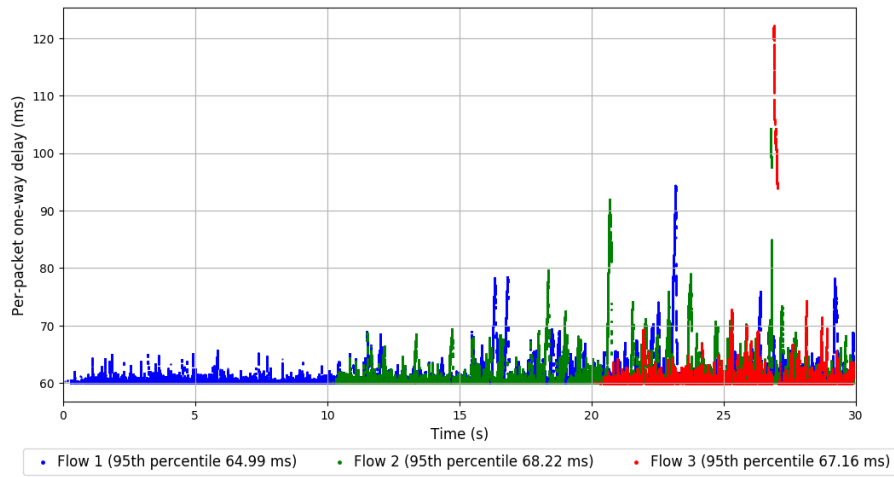
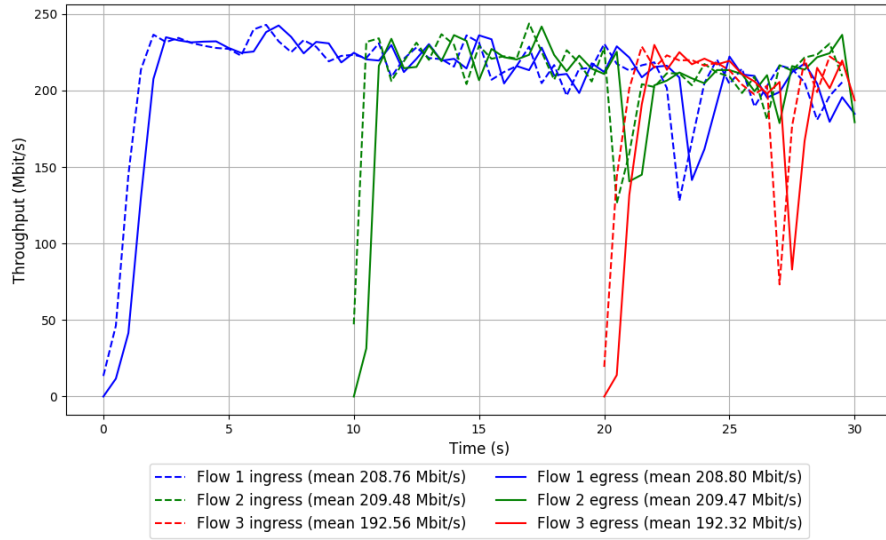
-- Flow 2:

Average throughput: 209.47 Mbit/s  
95th percentile per-packet one-way delay: 68.216 ms  
Loss rate: 0.61%

-- Flow 3:

Average throughput: 192.32 Mbit/s  
95th percentile per-packet one-way delay: 67.156 ms  
Loss rate: 1.34%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-10-03 11:30:20  
End at: 2019-10-03 11:30:50  
Local clock offset: -0.124 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-10-03 16:50:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 417.76 Mbit/s  
95th percentile per-packet one-way delay: 67.159 ms  
Loss rate: 0.59%

-- Flow 1:

Average throughput: 217.85 Mbit/s  
95th percentile per-packet one-way delay: 67.154 ms  
Loss rate: 0.42%

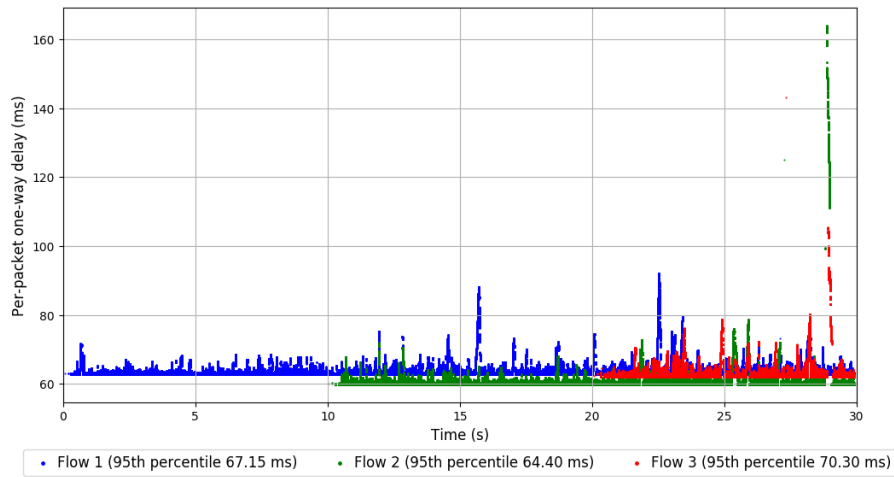
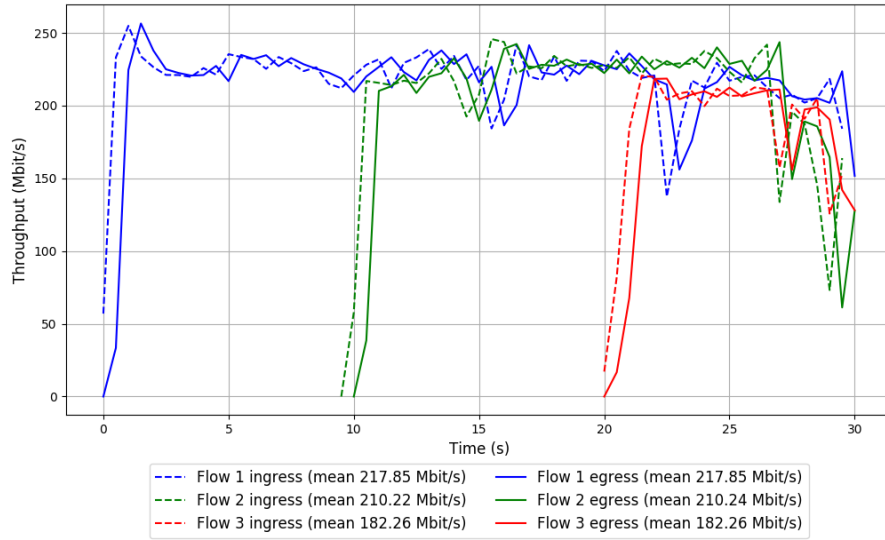
-- Flow 2:

Average throughput: 210.24 Mbit/s  
95th percentile per-packet one-way delay: 64.397 ms  
Loss rate: 0.60%

-- Flow 3:

Average throughput: 182.26 Mbit/s  
95th percentile per-packet one-way delay: 70.302 ms  
Loss rate: 1.23%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 12:10:37  
End at: 2019-10-03 12:11:07  
Local clock offset: -0.108 ms  
Remote clock offset: -0.945 ms

# Below is generated by plot.py at 2019-10-03 16:50:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 401.11 Mbit/s  
95th percentile per-packet one-way delay: 70.718 ms  
Loss rate: 0.47%

-- Flow 1:

Average throughput: 206.74 Mbit/s  
95th percentile per-packet one-way delay: 67.915 ms  
Loss rate: 0.20%

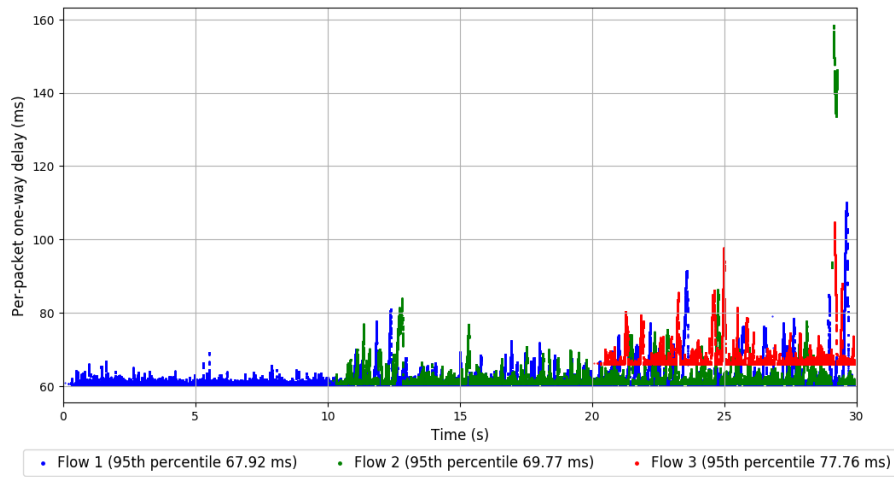
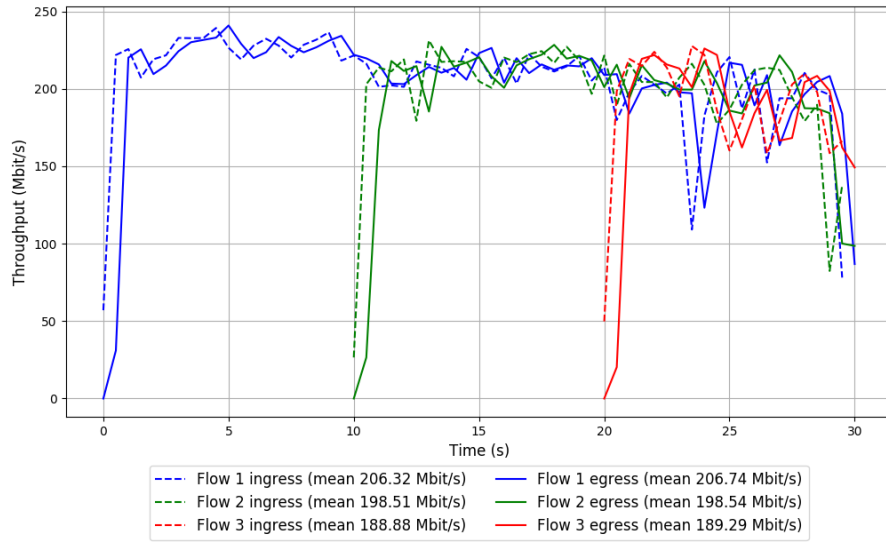
-- Flow 2:

Average throughput: 198.54 Mbit/s  
95th percentile per-packet one-way delay: 69.765 ms  
Loss rate: 0.59%

-- Flow 3:

Average throughput: 189.29 Mbit/s  
95th percentile per-packet one-way delay: 77.758 ms  
Loss rate: 1.10%

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





Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 12:50:11  
End at: 2019-10-03 12:50:41  
Local clock offset: -0.028 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-10-03 16:50:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 348.44 Mbit/s  
95th percentile per-packet one-way delay: 69.347 ms  
Loss rate: 0.50%

-- Flow 1:

Average throughput: 207.18 Mbit/s  
95th percentile per-packet one-way delay: 68.820 ms  
Loss rate: 0.42%

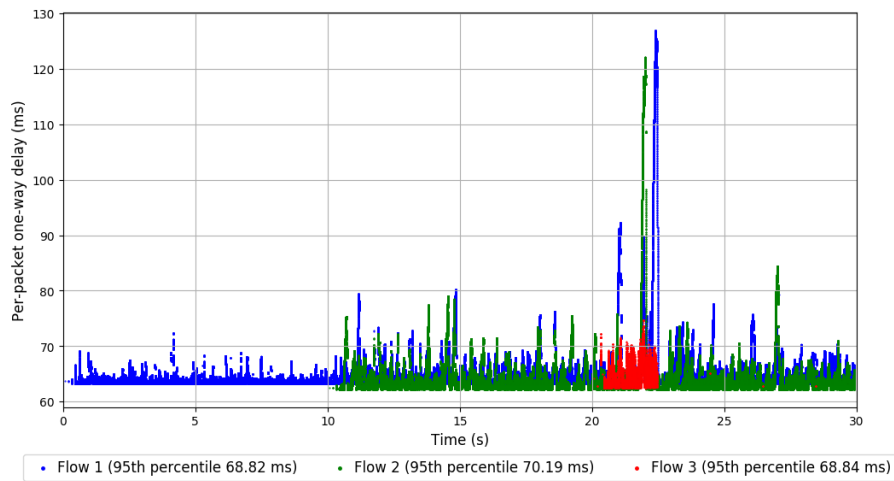
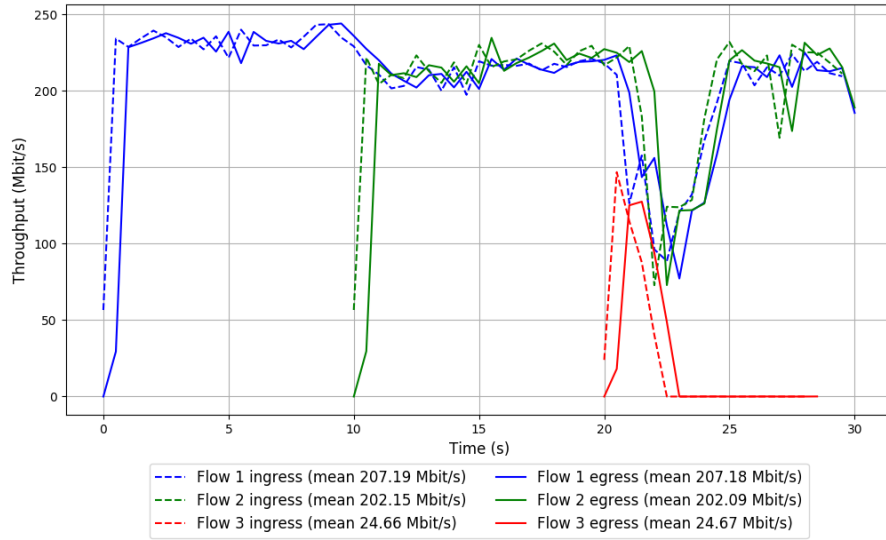
-- Flow 2:

Average throughput: 202.09 Mbit/s  
95th percentile per-packet one-way delay: 70.187 ms  
Loss rate: 0.65%

-- Flow 3:

Average throughput: 24.67 Mbit/s  
95th percentile per-packet one-way delay: 68.836 ms  
Loss rate: 0.00%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 13:30:04

End at: 2019-10-03 13:30:34

Local clock offset: -0.011 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-10-03 16:50:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 225.31 Mbit/s

95th percentile per-packet one-way delay: 64.871 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 13.81 Mbit/s

95th percentile per-packet one-way delay: 66.907 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 223.63 Mbit/s

95th percentile per-packet one-way delay: 64.908 ms

Loss rate: 0.54%

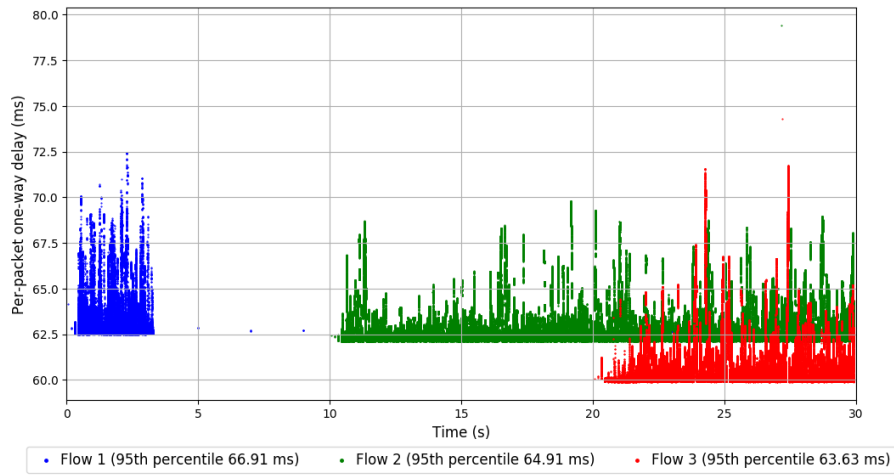
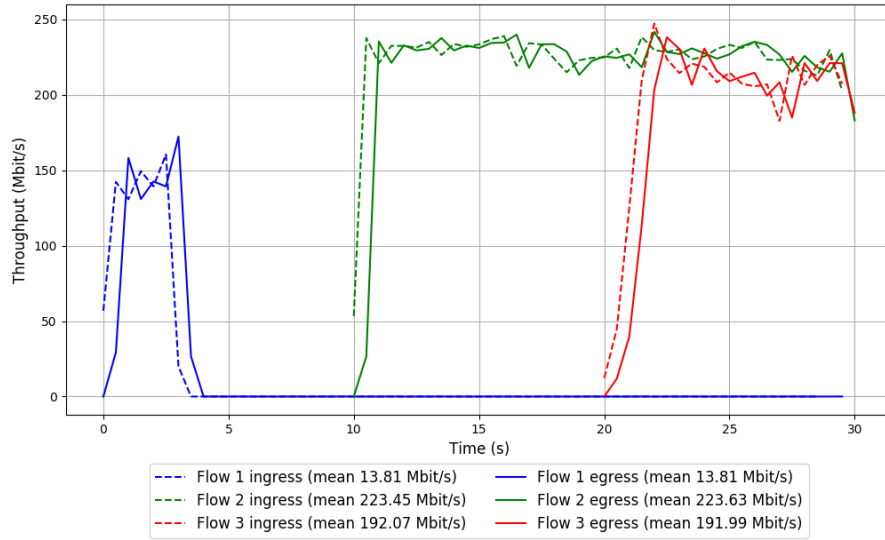
-- Flow 3:

Average throughput: 191.99 Mbit/s

95th percentile per-packet one-way delay: 63.635 ms

Loss rate: 1.27%

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-03 10:52:19

End at: 2019-10-03 10:52:49

Local clock offset: -0.078 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-10-03 16:50:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 657.17 Mbit/s

95th percentile per-packet one-way delay: 75.617 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 322.87 Mbit/s

95th percentile per-packet one-way delay: 74.691 ms

Loss rate: 0.30%

-- Flow 2:

Average throughput: 330.14 Mbit/s

95th percentile per-packet one-way delay: 81.742 ms

Loss rate: 0.42%

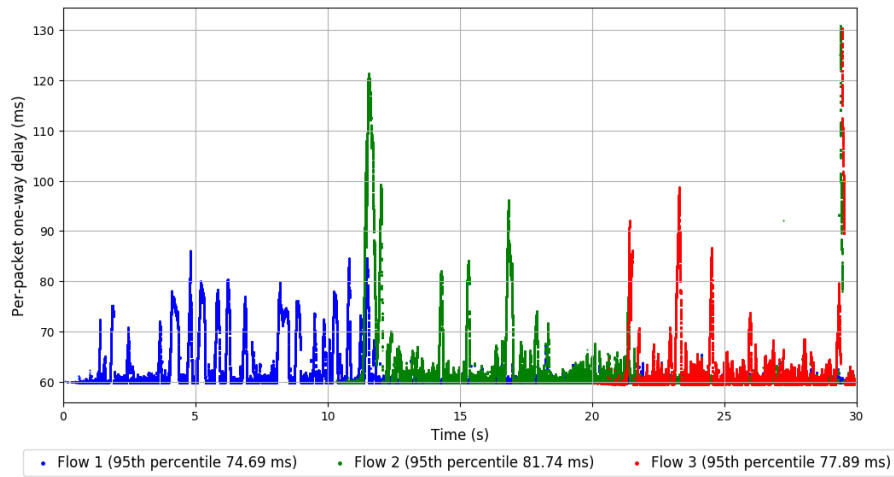
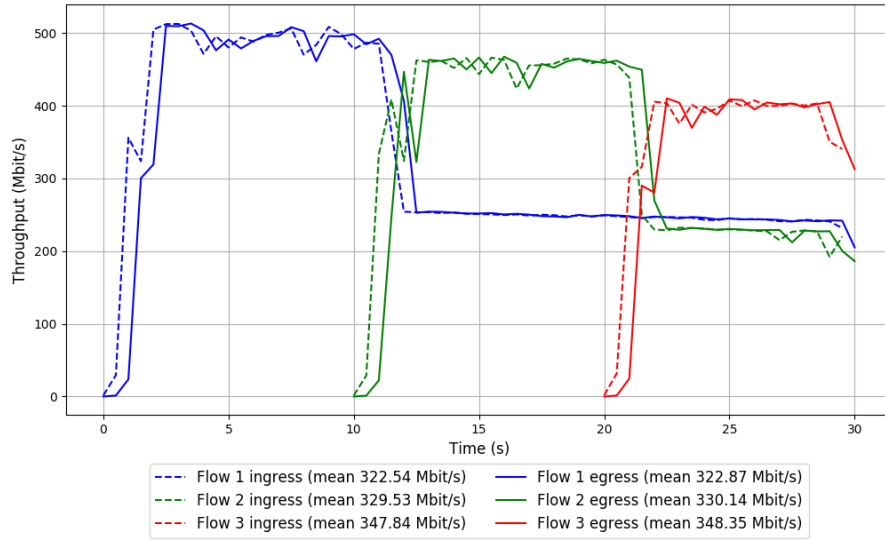
-- Flow 3:

Average throughput: 348.35 Mbit/s

95th percentile per-packet one-way delay: 77.892 ms

Loss rate: 1.06%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-10-03 11:32:12  
End at: 2019-10-03 11:32:42  
Local clock offset: -0.141 ms  
Remote clock offset: -0.125 ms

# Below is generated by plot.py at 2019-10-03 16:58:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 770.94 Mbit/s  
95th percentile per-packet one-way delay: 93.125 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 443.03 Mbit/s  
95th percentile per-packet one-way delay: 90.275 ms  
Loss rate: 0.43%

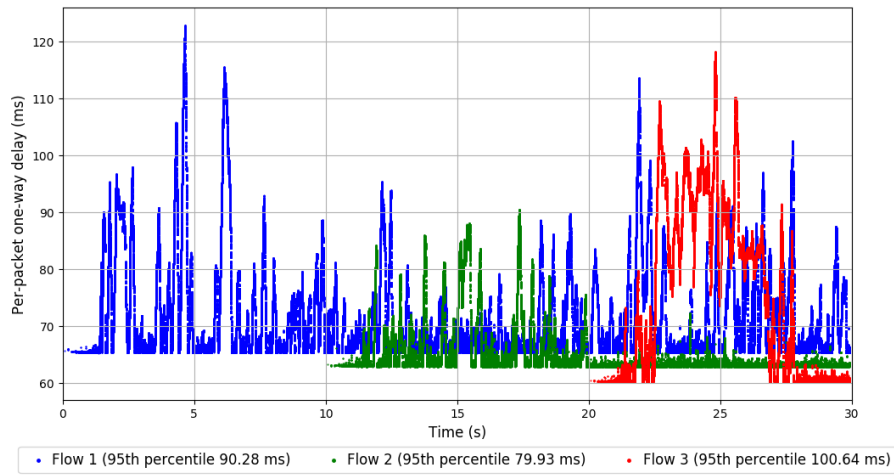
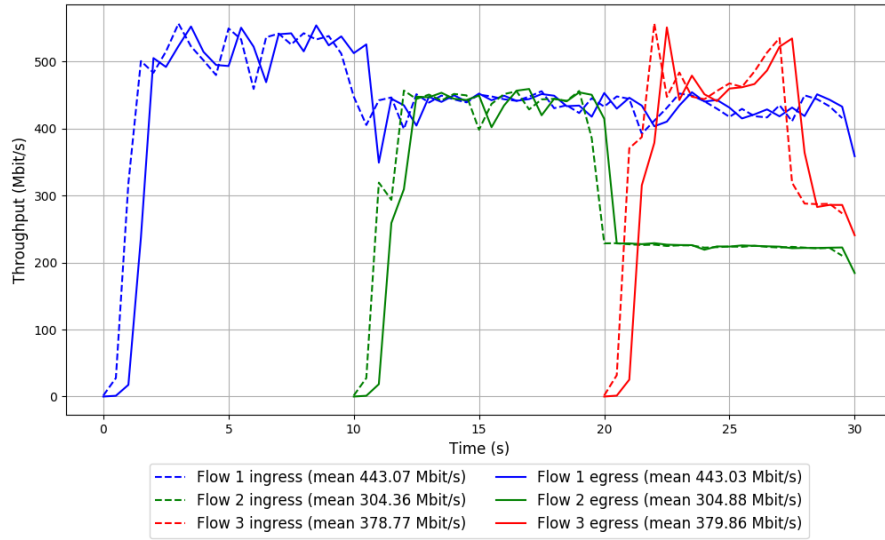
-- Flow 2:

Average throughput: 304.88 Mbit/s  
95th percentile per-packet one-way delay: 79.933 ms  
Loss rate: 0.45%

-- Flow 3:

Average throughput: 379.86 Mbit/s  
95th percentile per-packet one-way delay: 100.645 ms  
Loss rate: 0.92%

Run 2: Report of TCP Vegas — Data Link





Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 12:12:29  
End at: 2019-10-03 12:12:59  
Local clock offset: -0.087 ms  
Remote clock offset: -0.254 ms

# Below is generated by plot.py at 2019-10-03 16:58:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 744.76 Mbit/s  
95th percentile per-packet one-way delay: 86.090 ms  
Loss rate: 0.53%

-- Flow 1:

Average throughput: 339.90 Mbit/s  
95th percentile per-packet one-way delay: 68.520 ms  
Loss rate: 0.30%

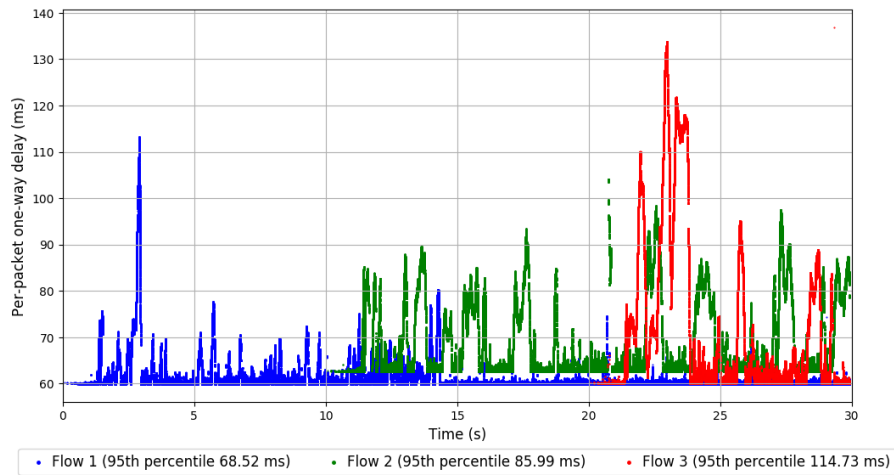
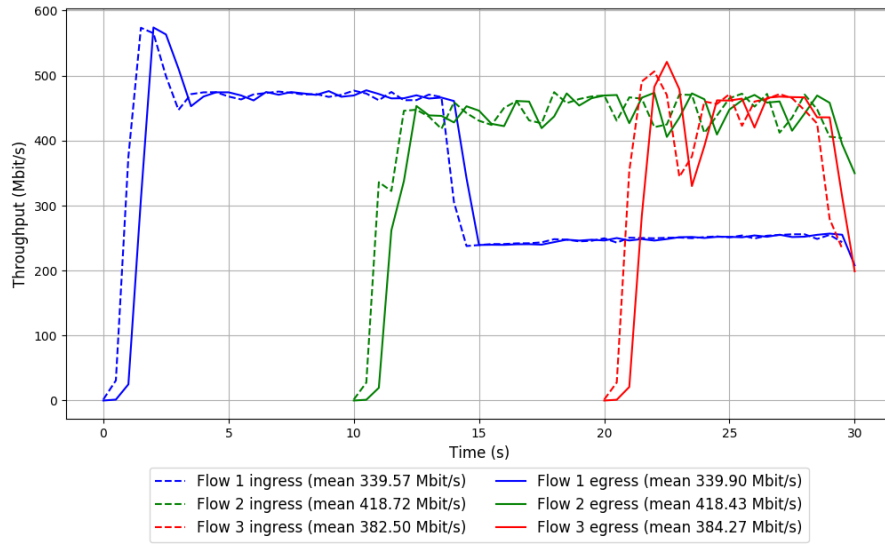
-- Flow 2:

Average throughput: 418.43 Mbit/s  
95th percentile per-packet one-way delay: 85.989 ms  
Loss rate: 0.70%

-- Flow 3:

Average throughput: 384.27 Mbit/s  
95th percentile per-packet one-way delay: 114.728 ms  
Loss rate: 0.77%

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



Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 12:51:57  
End at: 2019-10-03 12:52:27  
Local clock offset: -0.042 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-10-03 16:58:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 625.91 Mbit/s  
95th percentile per-packet one-way delay: 73.026 ms  
Loss rate: 0.69%

-- Flow 1:

Average throughput: 246.12 Mbit/s  
95th percentile per-packet one-way delay: 66.099 ms  
Loss rate: 0.37%

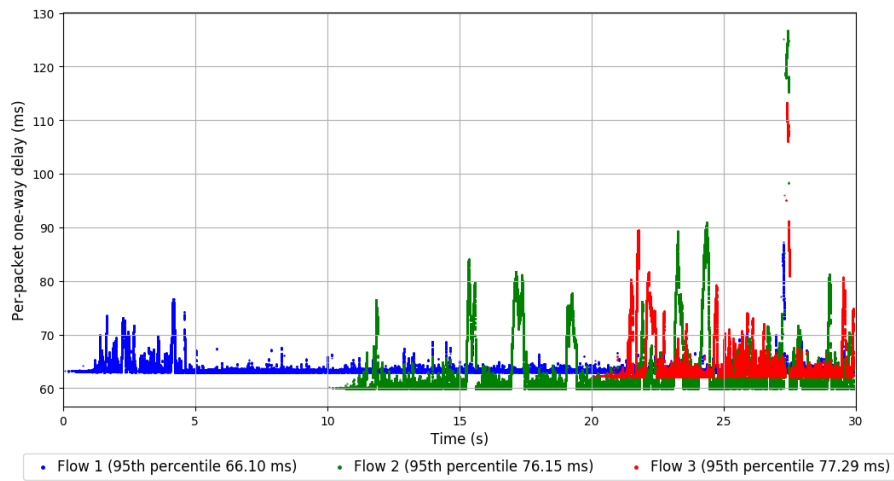
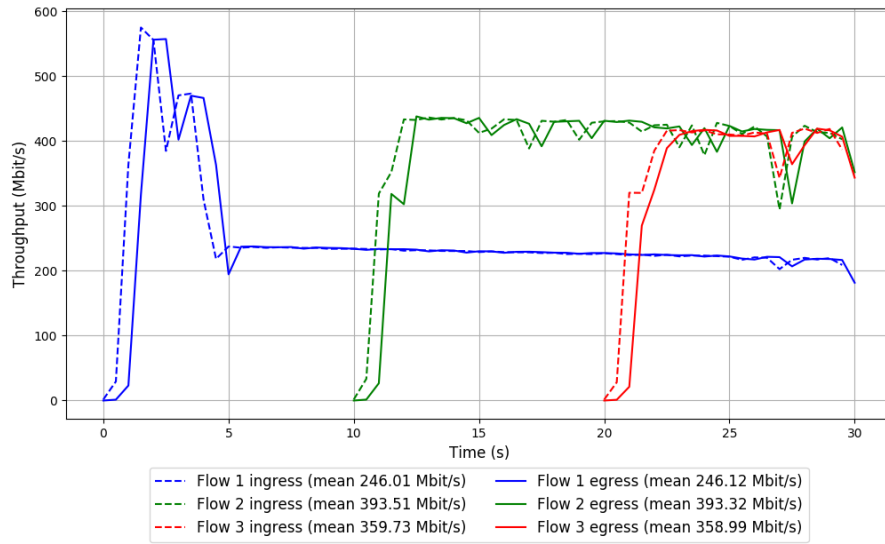
-- Flow 2:

Average throughput: 393.32 Mbit/s  
95th percentile per-packet one-way delay: 76.151 ms  
Loss rate: 0.65%

-- Flow 3:

Average throughput: 358.99 Mbit/s  
95th percentile per-packet one-way delay: 77.289 ms  
Loss rate: 1.43%

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



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 13:31:39

End at: 2019-10-03 13:32:09

Local clock offset: -0.015 ms

Remote clock offset: 0.113 ms

# Below is generated by plot.py at 2019-10-03 17:00:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 699.07 Mbit/s

95th percentile per-packet one-way delay: 79.533 ms

Loss rate: 0.27%

-- Flow 1:

Average throughput: 361.01 Mbit/s

95th percentile per-packet one-way delay: 76.745 ms

Loss rate: 0.14%

-- Flow 2:

Average throughput: 411.77 Mbit/s

95th percentile per-packet one-way delay: 82.328 ms

Loss rate: 0.18%

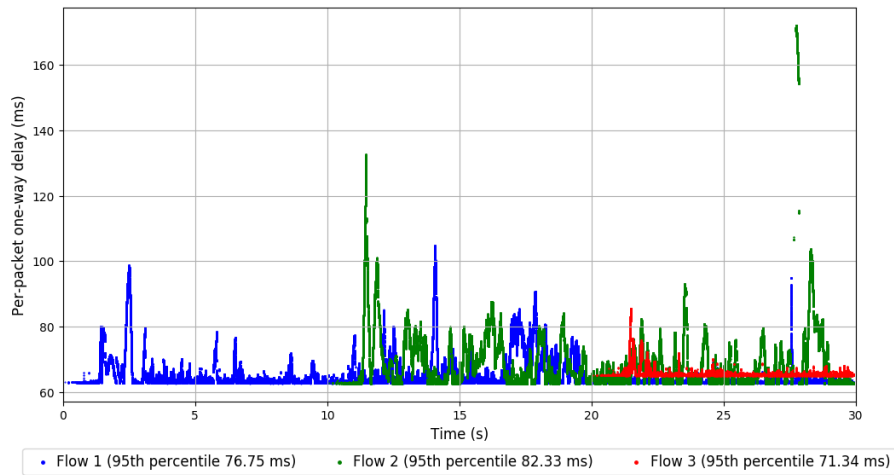
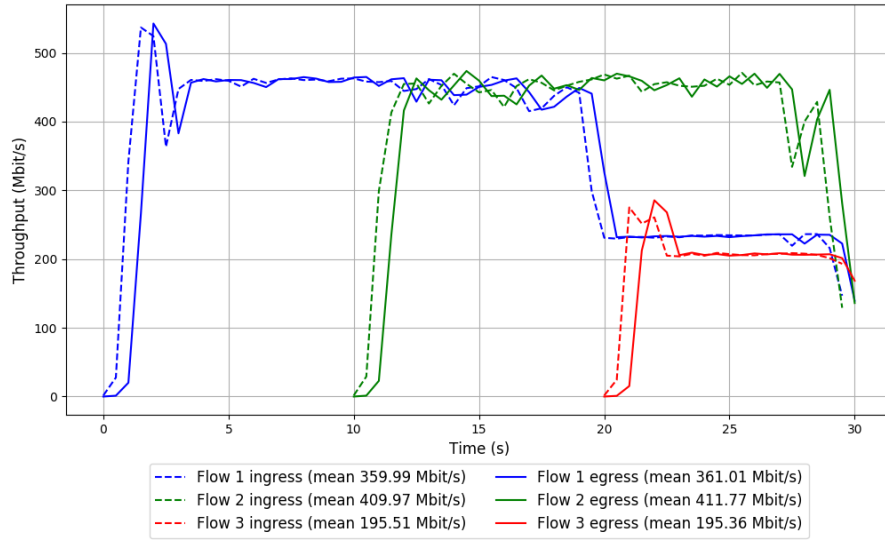
-- Flow 3:

Average throughput: 195.36 Mbit/s

95th percentile per-packet one-way delay: 71.340 ms

Loss rate: 1.37%

Run 5: Report of TCP Vegas — Data Link

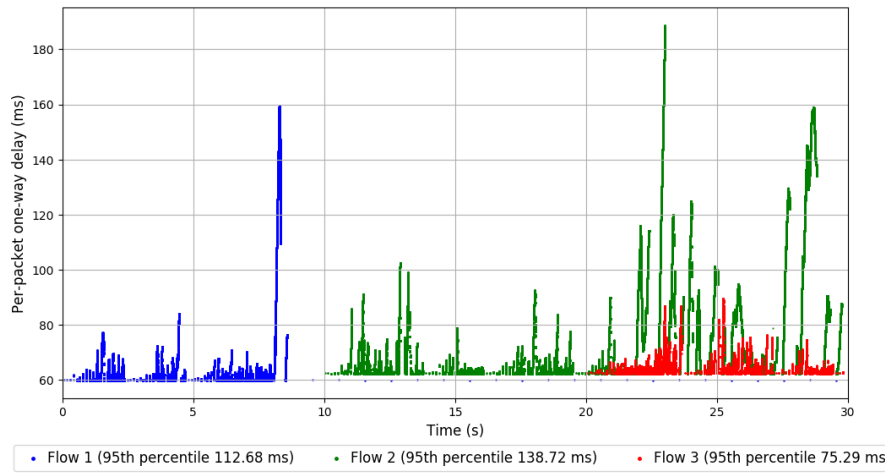
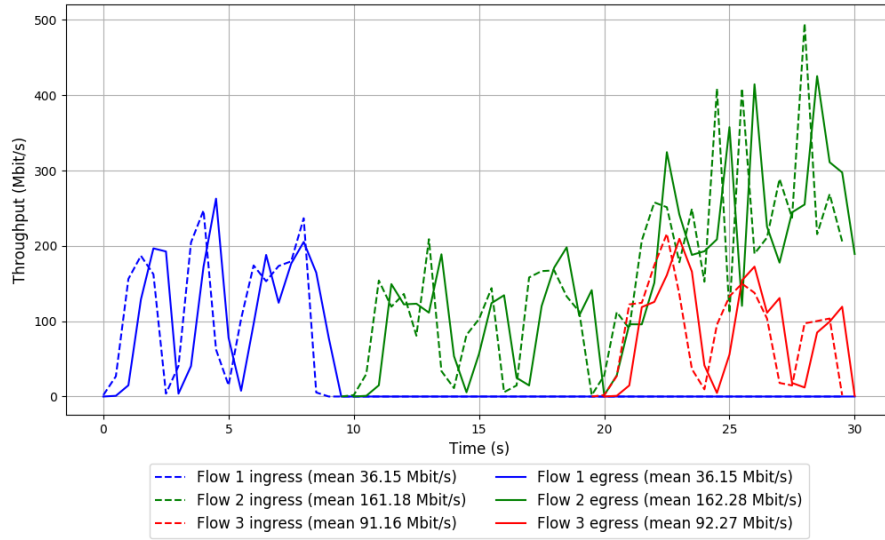


Run 1: Statistics of Verus

Start at: 2019-10-03 11:21:34  
End at: 2019-10-03 11:22:04  
Local clock offset: -0.106 ms  
Remote clock offset: -0.212 ms

```
# Below is generated by plot.py at 2019-10-03 17:00:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 173.86 Mbit/s
95th percentile per-packet one-way delay: 133.157 ms
Loss rate: 0.23%
-- Flow 1:
Average throughput: 36.15 Mbit/s
95th percentile per-packet one-way delay: 112.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 162.28 Mbit/s
95th percentile per-packet one-way delay: 138.718 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 92.27 Mbit/s
95th percentile per-packet one-way delay: 75.292 ms
Loss rate: 0.06%
```

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





Run 2: Statistics of Verus

Start at: 2019-10-03 12:01:56

End at: 2019-10-03 12:02:26

Local clock offset: -0.1 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-10-03 17:00:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 198.20 Mbit/s

95th percentile per-packet one-way delay: 104.355 ms

Loss rate: 0.90%

-- Flow 1:

Average throughput: 60.63 Mbit/s

95th percentile per-packet one-way delay: 81.598 ms

Loss rate: 1.40%

-- Flow 2:

Average throughput: 171.20 Mbit/s

95th percentile per-packet one-way delay: 114.335 ms

Loss rate: 0.00%

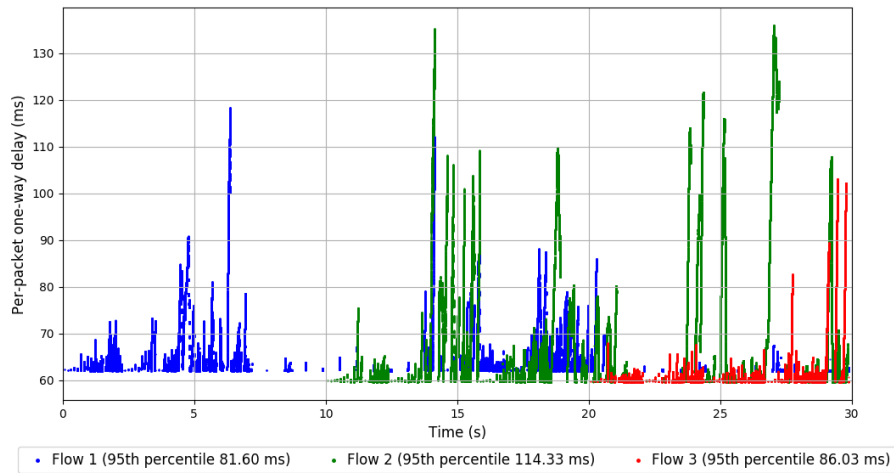
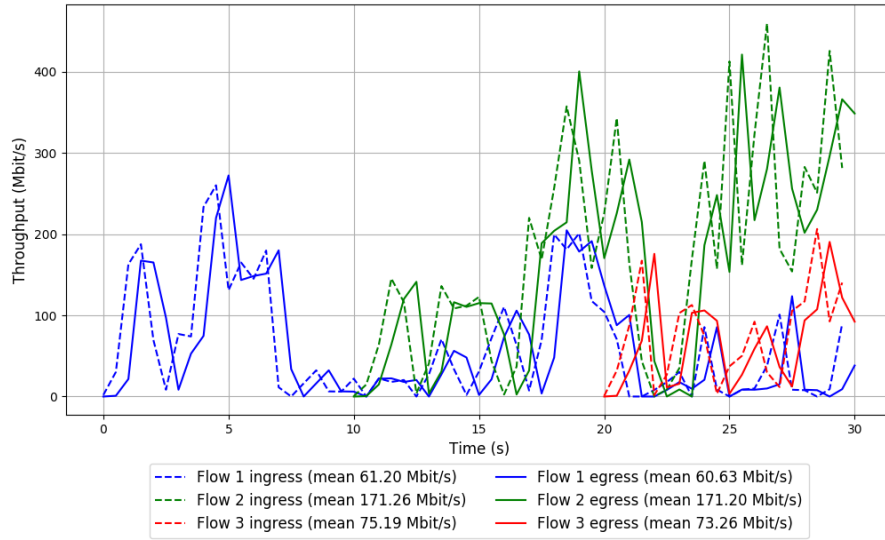
-- Flow 3:

Average throughput: 73.26 Mbit/s

95th percentile per-packet one-way delay: 86.030 ms

Loss rate: 3.75%

Run 2: Report of Verus — Data Link



Run 3: Statistics of Verus

Start at: 2019-10-03 12:41:35  
End at: 2019-10-03 12:42:05  
Local clock offset: -0.082 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-10-03 17:00:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 99.759 ms  
Loss rate: 1.41%

-- Flow 1:

Average throughput: 28.36 Mbit/s  
95th percentile per-packet one-way delay: 94.583 ms  
Loss rate: 0.00%

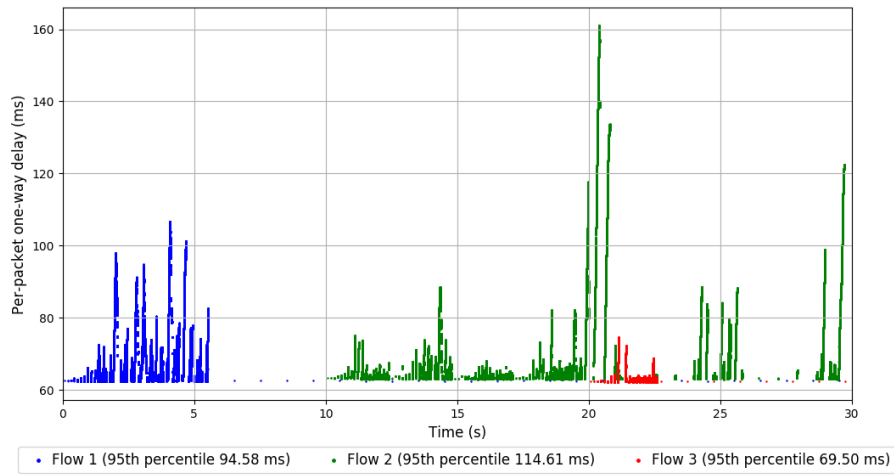
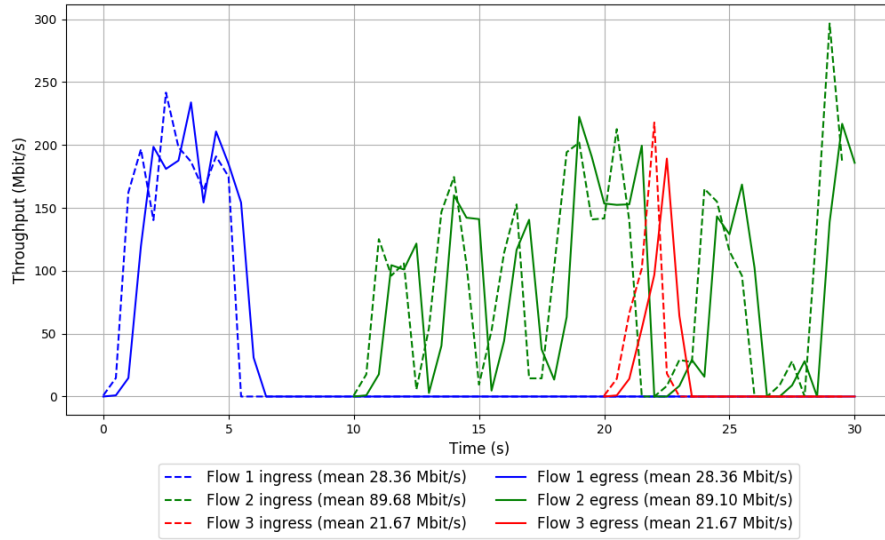
-- Flow 2:

Average throughput: 89.10 Mbit/s  
95th percentile per-packet one-way delay: 114.606 ms  
Loss rate: 2.24%

-- Flow 3:

Average throughput: 21.67 Mbit/s  
95th percentile per-packet one-way delay: 69.497 ms  
Loss rate: 0.00%

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

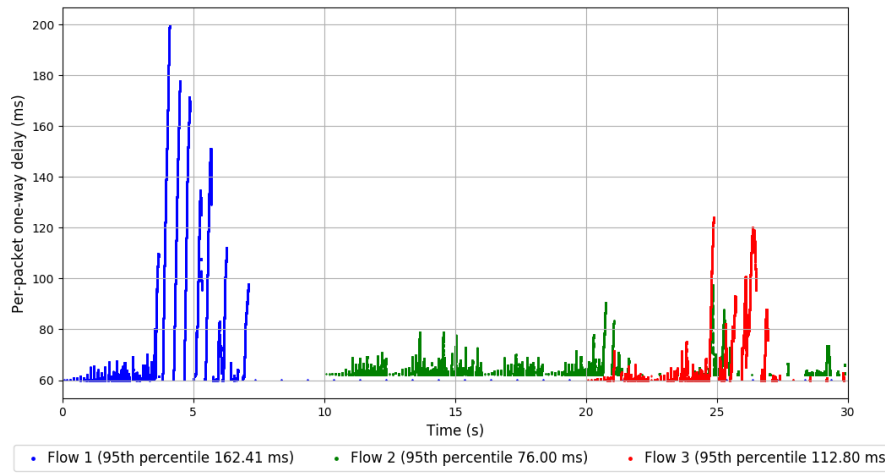
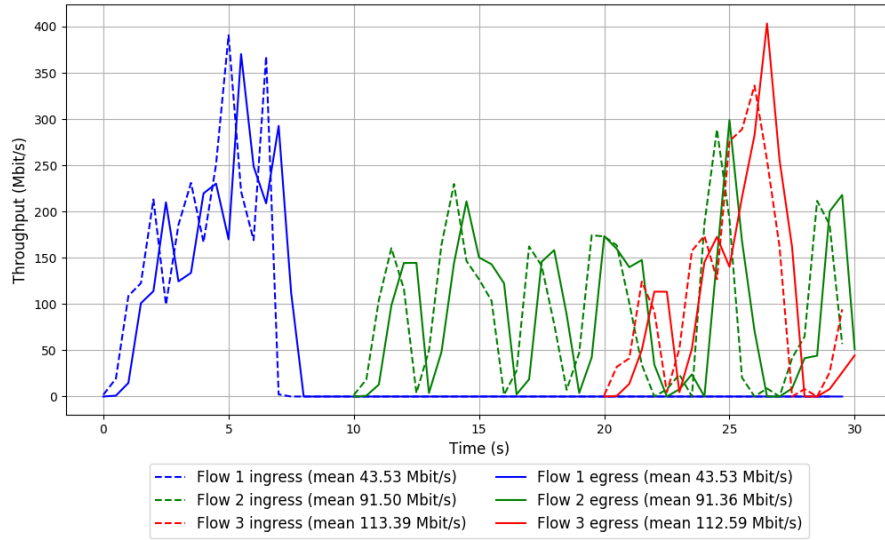


Run 4: Statistics of Verus

Start at: 2019-10-03 13:21:19  
End at: 2019-10-03 13:21:49  
Local clock offset: -0.026 ms  
Remote clock offset: -0.179 ms

```
# Below is generated by plot.py at 2019-10-03 17:00:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 140.42 Mbit/s
95th percentile per-packet one-way delay: 130.830 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 43.53 Mbit/s
95th percentile per-packet one-way delay: 162.411 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 91.36 Mbit/s
95th percentile per-packet one-way delay: 76.005 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 112.59 Mbit/s
95th percentile per-packet one-way delay: 112.802 ms
Loss rate: 2.21%
```

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



Run 5: Statistics of Verus

Start at: 2019-10-03 14:01:12

End at: 2019-10-03 14:01:42

Local clock offset: -0.008 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-10-03 17:00:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 118.31 Mbit/s

95th percentile per-packet one-way delay: 121.934 ms

Loss rate: 1.28%

-- Flow 1:

Average throughput: 35.40 Mbit/s

95th percentile per-packet one-way delay: 111.452 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 104.490 ms

Loss rate: 0.00%

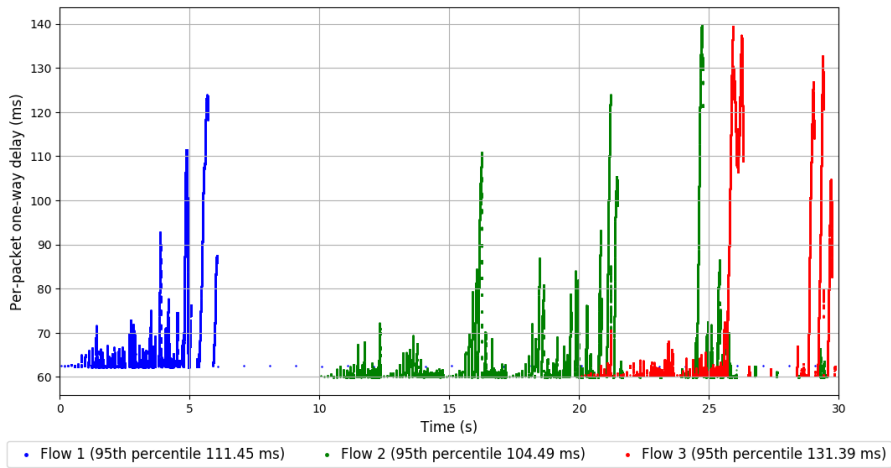
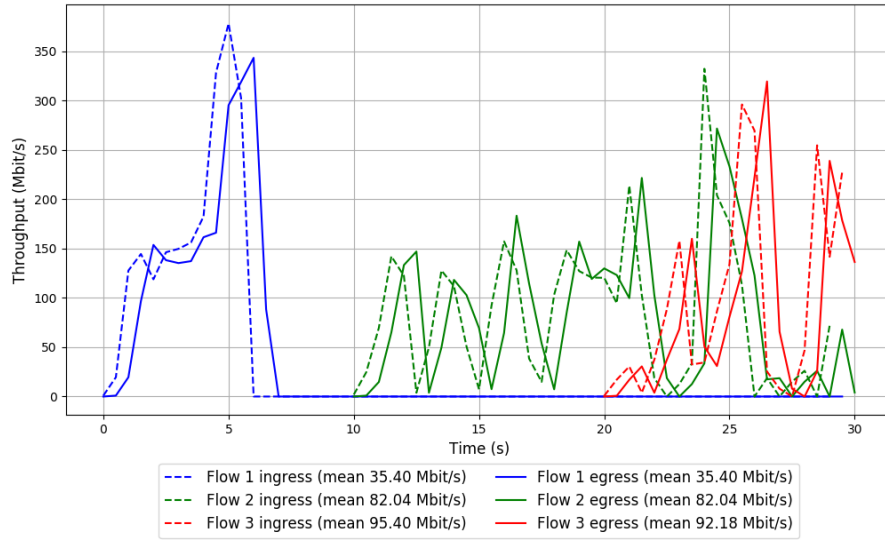
-- Flow 3:

Average throughput: 92.18 Mbit/s

95th percentile per-packet one-way delay: 131.394 ms

Loss rate: 4.81%

### Run 5: Report of Verus — Data Link





Run 1: Statistics of PCC-Vivace

Start at: 2019-10-03 11:14:41  
End at: 2019-10-03 11:15:11  
Local clock offset: -0.082 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-10-03 17:01:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 423.79 Mbit/s  
95th percentile per-packet one-way delay: 64.913 ms  
Loss rate: 0.68%

-- Flow 1:

Average throughput: 217.64 Mbit/s  
95th percentile per-packet one-way delay: 64.340 ms  
Loss rate: 0.48%

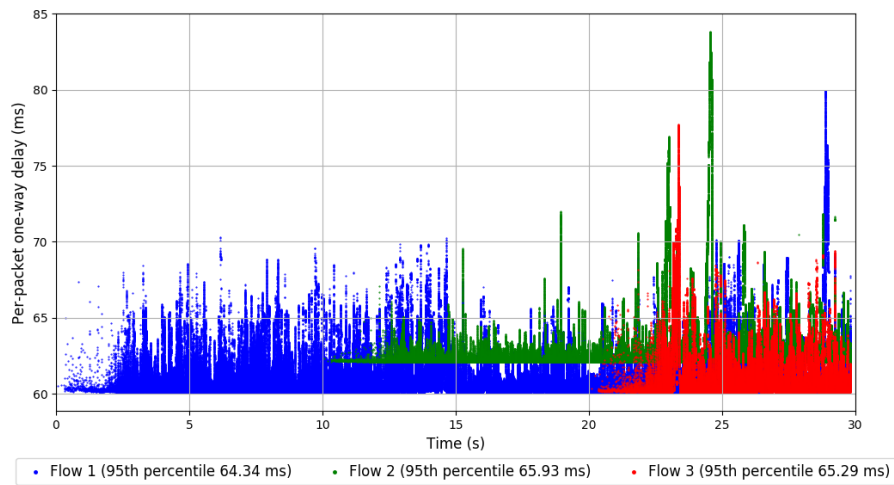
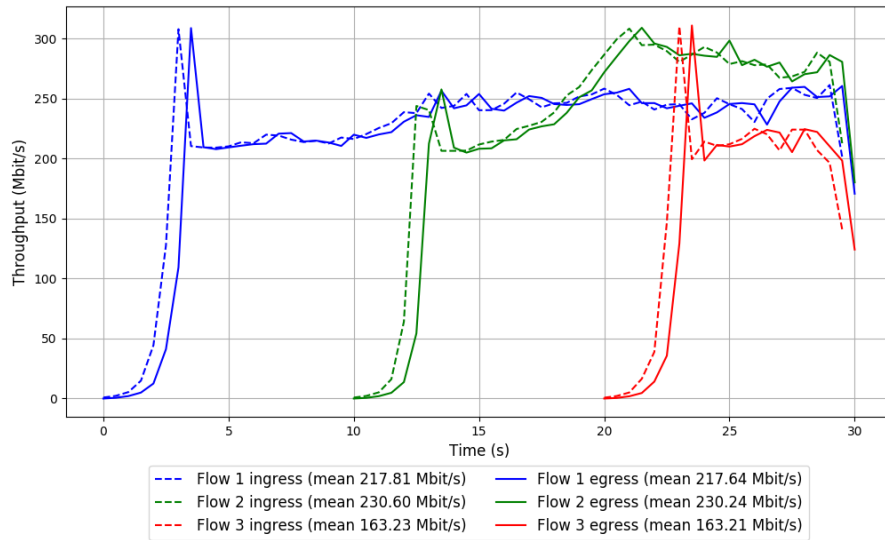
-- Flow 2:

Average throughput: 230.24 Mbit/s  
95th percentile per-packet one-way delay: 65.928 ms  
Loss rate: 0.76%

-- Flow 3:

Average throughput: 163.21 Mbit/s  
95th percentile per-packet one-way delay: 65.294 ms  
Loss rate: 1.24%

Run 1: Report of PCC-Vivace — Data Link

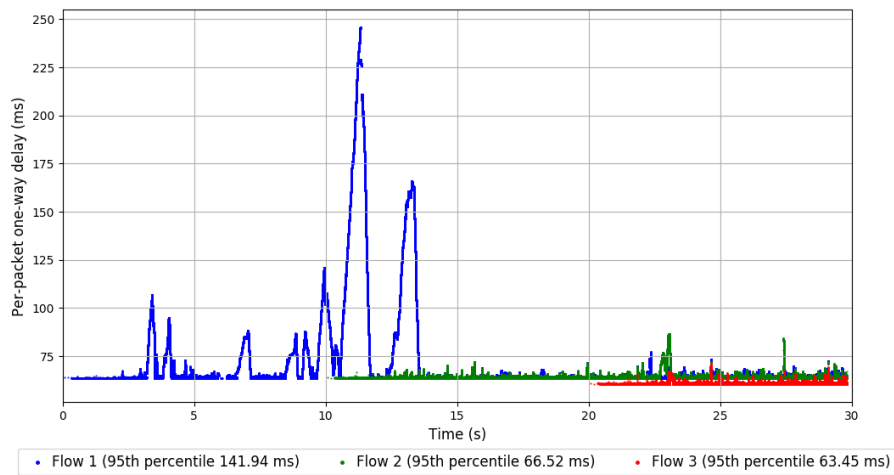
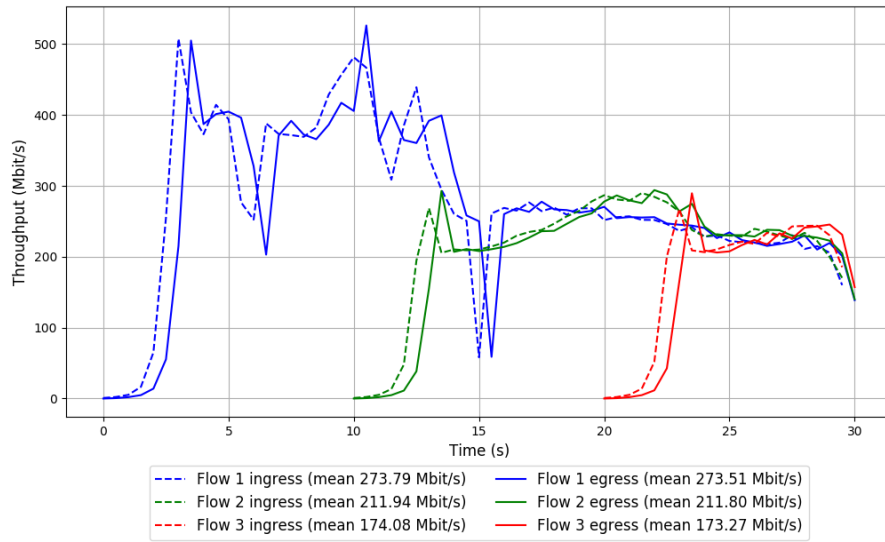


Run 2: Statistics of PCC-Vivace

Start at: 2019-10-03 11:54:55  
End at: 2019-10-03 11:55:26  
Local clock offset: -0.078 ms  
Remote clock offset: -0.733 ms

```
# Below is generated by plot.py at 2019-10-03 17:02:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 470.71 Mbit/s
95th percentile per-packet one-way delay: 102.772 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 273.51 Mbit/s
95th percentile per-packet one-way delay: 141.936 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 211.80 Mbit/s
95th percentile per-packet one-way delay: 66.518 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 173.27 Mbit/s
95th percentile per-packet one-way delay: 63.455 ms
Loss rate: 1.68%
```

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 12:34:40  
End at: 2019-10-03 12:35:10  
Local clock offset: -0.039 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-10-03 17:02:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 456.33 Mbit/s  
95th percentile per-packet one-way delay: 67.798 ms  
Loss rate: 0.51%

-- Flow 1:

Average throughput: 279.39 Mbit/s  
95th percentile per-packet one-way delay: 71.115 ms  
Loss rate: 0.37%

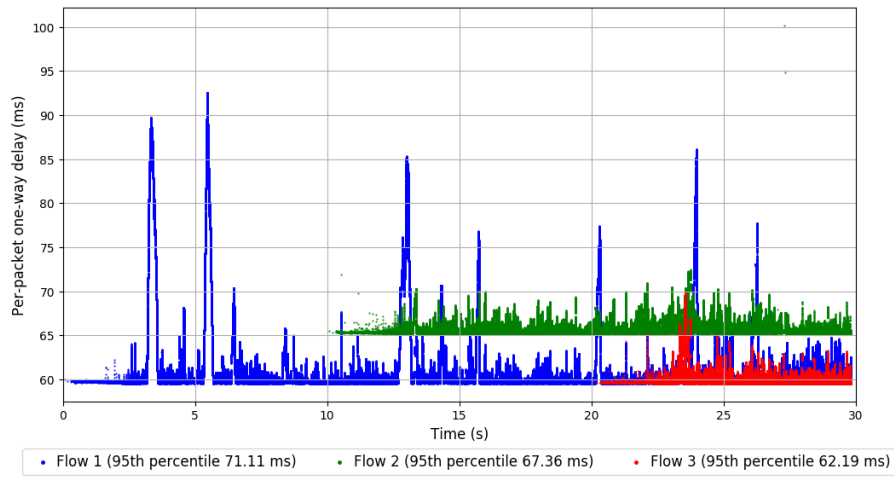
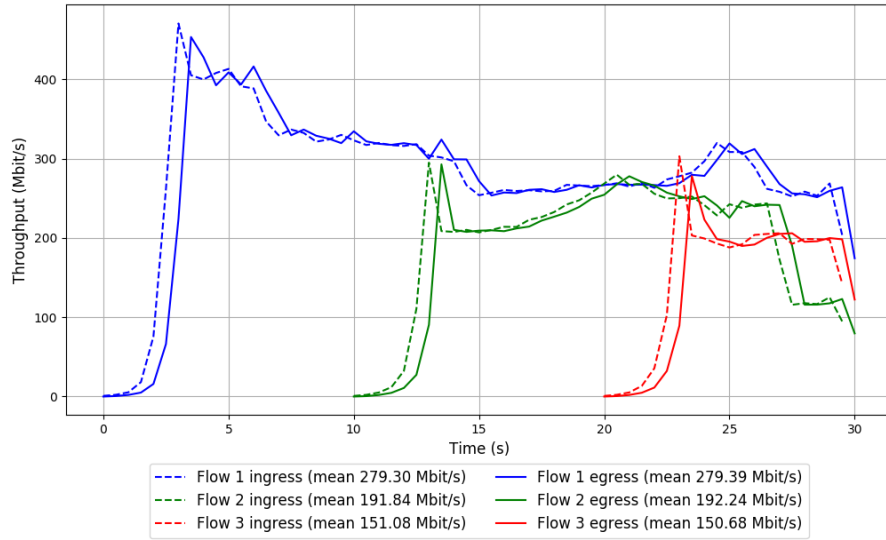
-- Flow 2:

Average throughput: 192.24 Mbit/s  
95th percentile per-packet one-way delay: 67.362 ms  
Loss rate: 0.43%

-- Flow 3:

Average throughput: 150.68 Mbit/s  
95th percentile per-packet one-way delay: 62.193 ms  
Loss rate: 1.47%

### Run 3: Report of PCC-Vivace — Data Link

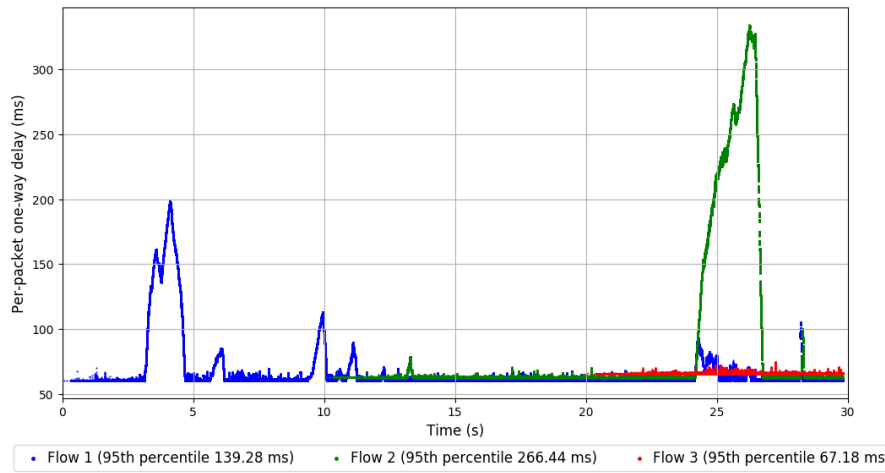
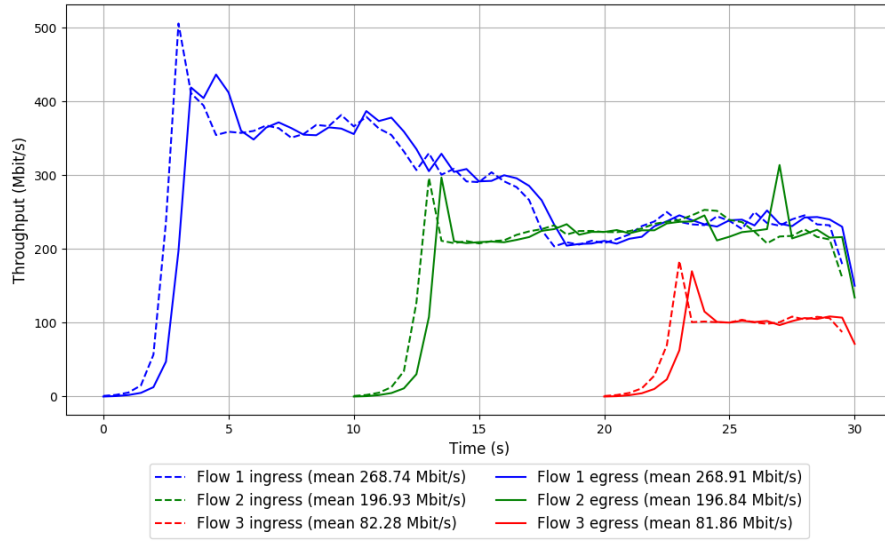


Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 13:14:18  
End at: 2019-10-03 13:14:48  
Local clock offset: -0.003 ms  
Remote clock offset: -0.353 ms

```
# Below is generated by plot.py at 2019-10-03 17:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 426.32 Mbit/s
95th percentile per-packet one-way delay: 164.361 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 268.91 Mbit/s
95th percentile per-packet one-way delay: 139.282 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 196.84 Mbit/s
95th percentile per-packet one-way delay: 266.442 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 81.86 Mbit/s
95th percentile per-packet one-way delay: 67.177 ms
Loss rate: 1.80%
```

### Run 4: Report of PCC-Vivace — Data Link





Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 13:54:13

End at: 2019-10-03 13:54:43

Local clock offset: -0.005 ms

Remote clock offset: 0.471 ms

# Below is generated by plot.py at 2019-10-03 17:03:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 397.86 Mbit/s

95th percentile per-packet one-way delay: 80.077 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 272.21 Mbit/s

95th percentile per-packet one-way delay: 91.320 ms

Loss rate: 0.37%

-- Flow 2:

Average throughput: 116.66 Mbit/s

95th percentile per-packet one-way delay: 62.172 ms

Loss rate: 0.62%

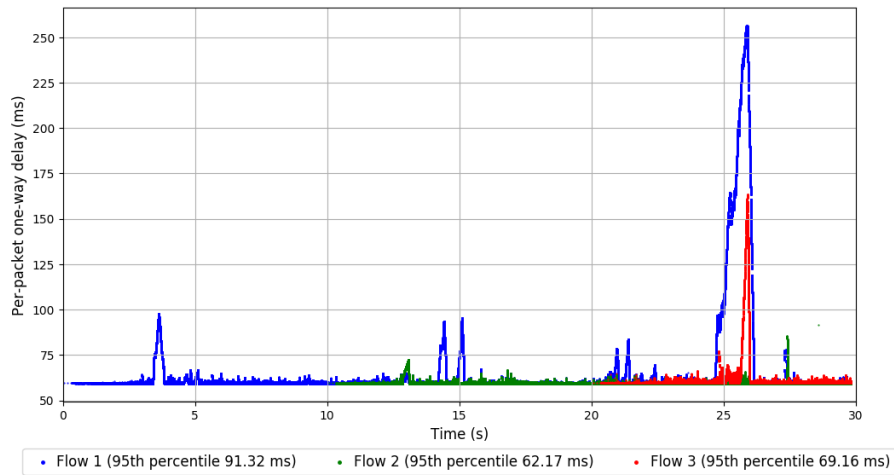
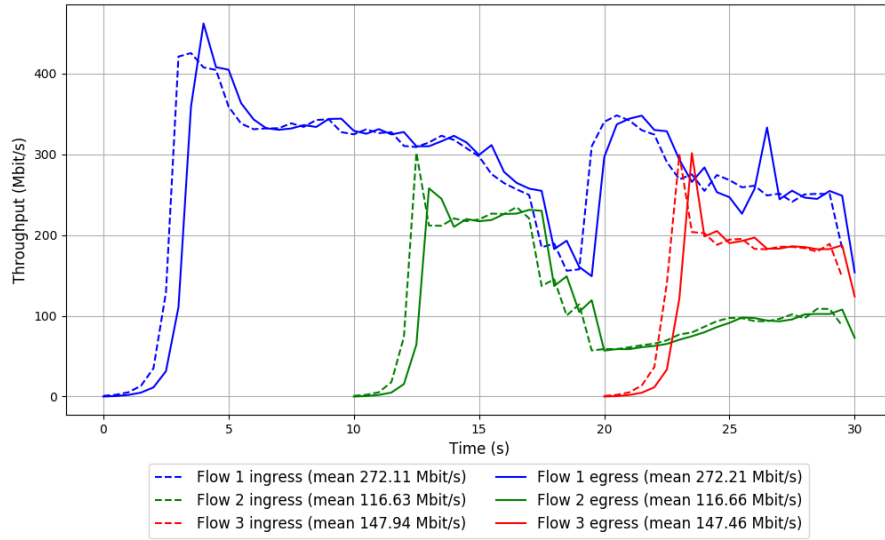
-- Flow 3:

Average throughput: 147.46 Mbit/s

95th percentile per-packet one-way delay: 69.155 ms

Loss rate: 1.57%

Run 5: Report of PCC-Vivace — Data Link

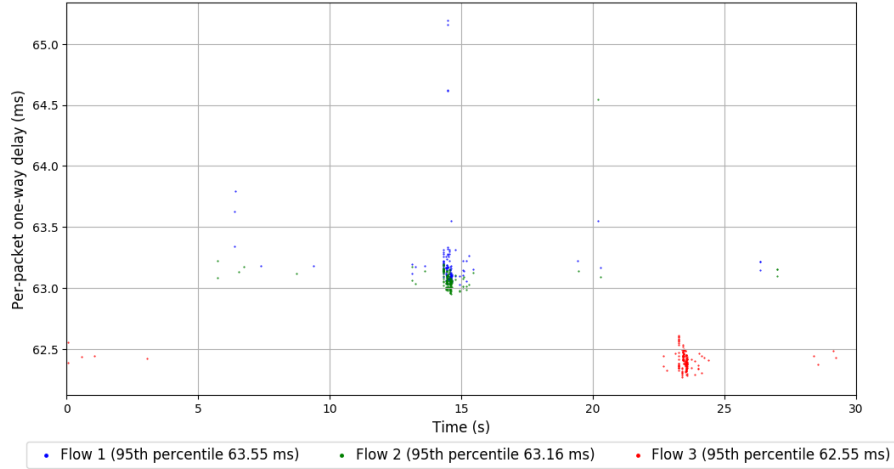
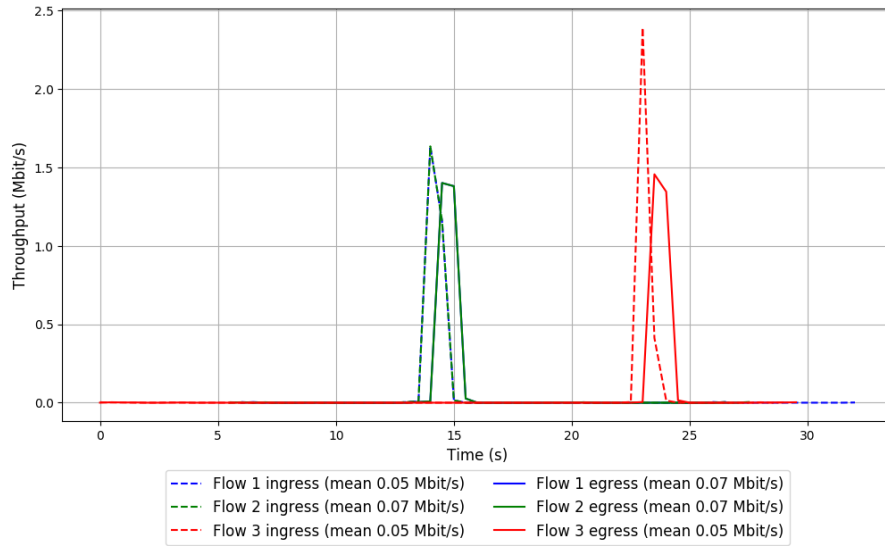


Run 1: Statistics of WebRTC media

Start at: 2019-10-03 10:54:06  
End at: 2019-10-03 10:54:36  
Local clock offset: -0.084 ms  
Remote clock offset: -0.095 ms

```
# Below is generated by plot.py at 2019-10-03 17:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 63.260 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 63.547 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 63.161 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.554 ms
Loss rate: 0.00%
```

### Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-03 11:34:05

End at: 2019-10-03 11:34:35

Local clock offset: -0.151 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-10-03 17:03:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 62.452 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 62.511 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 60.093 ms

Loss rate: 0.00%

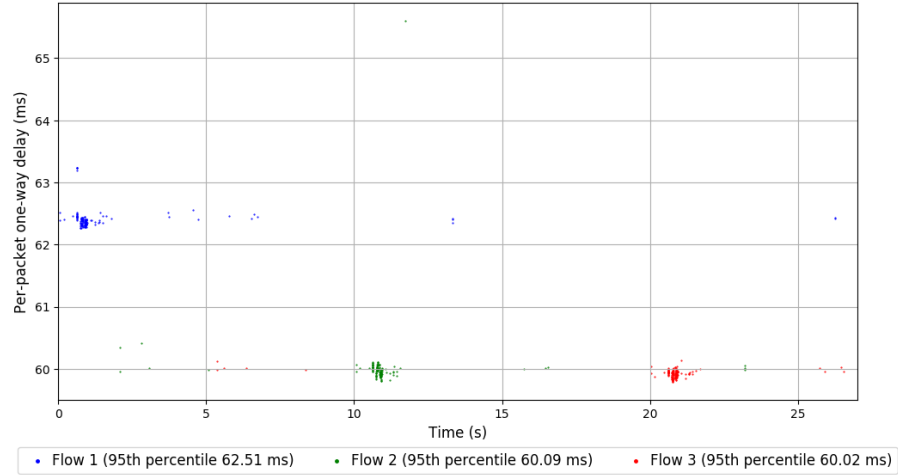
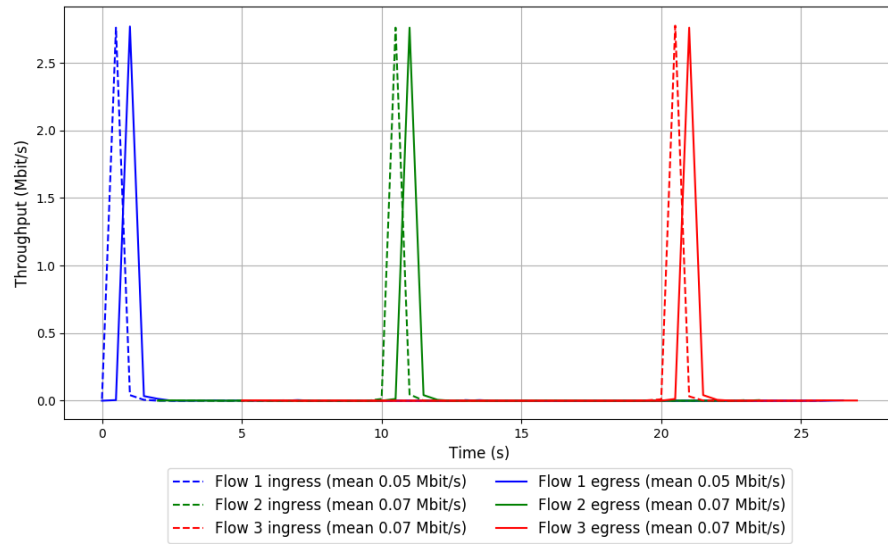
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 60.018 ms

Loss rate: 0.00%

## Run 2: Report of WebRTC media — Data Link

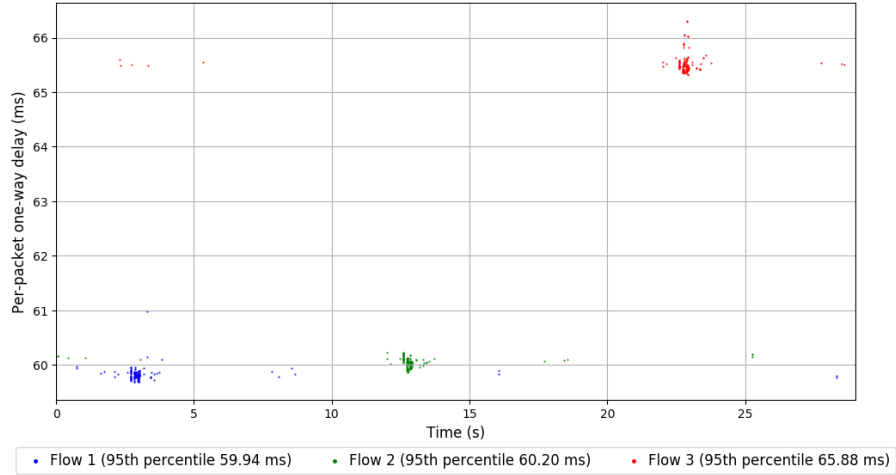
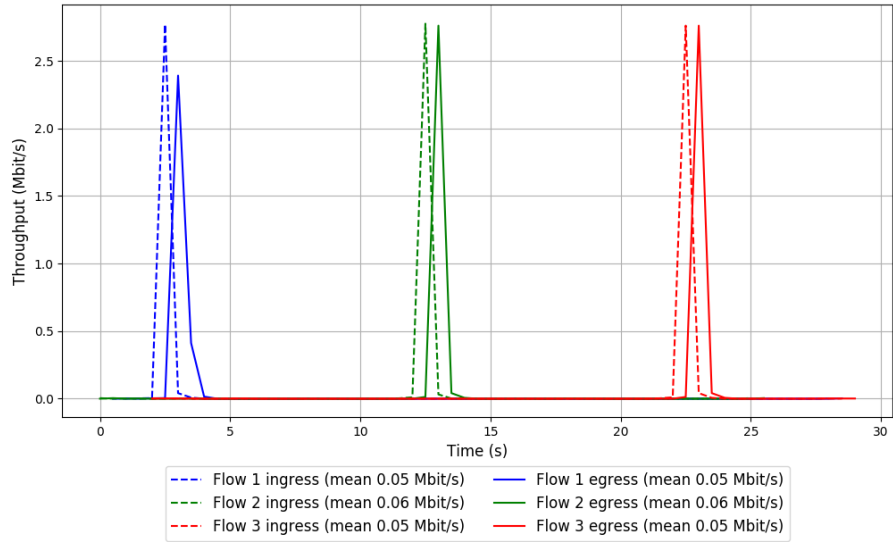


Run 3: Statistics of WebRTC media

Start at: 2019-10-03 12:14:20  
End at: 2019-10-03 12:14:50  
Local clock offset: -0.123 ms  
Remote clock offset: -0.145 ms

```
# Below is generated by plot.py at 2019-10-03 17:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 65.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 59.939 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 60.197 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.883 ms
Loss rate: 0.00%
```

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





Run 4: Statistics of WebRTC media

Start at: 2019-10-03 12:53:43

End at: 2019-10-03 12:54:13

Local clock offset: -0.035 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-10-03 17:03:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 63.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 63.341 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 60.271 ms

Loss rate: 0.00%

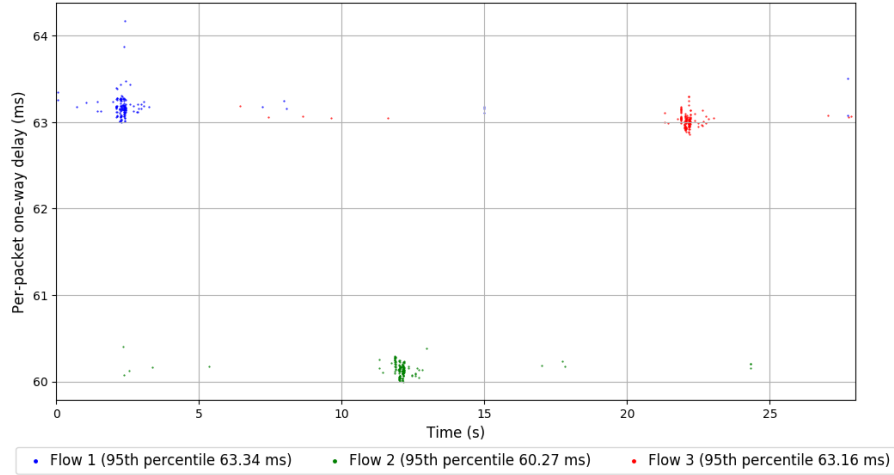
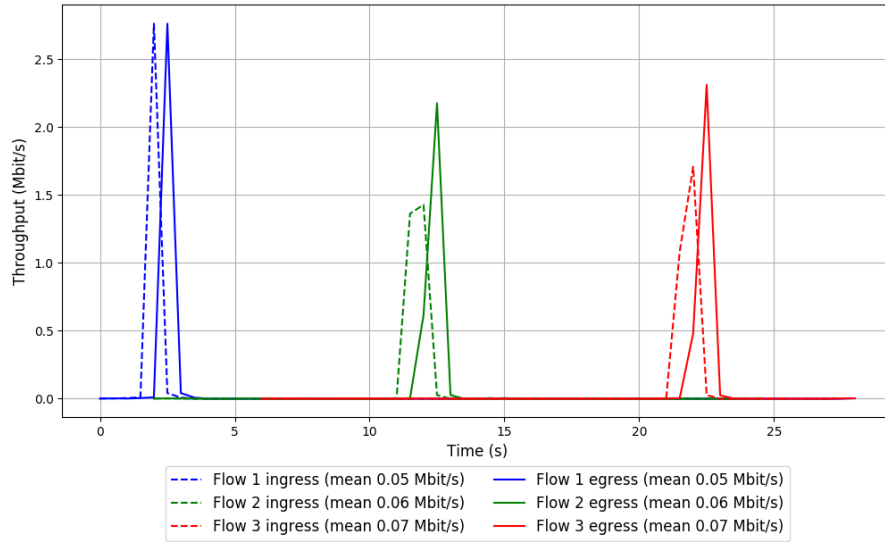
-- Flow 3:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 63.158 ms

Loss rate: 0.00%

### Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 13:33:29  
End at: 2019-10-03 13:33:59  
Local clock offset: -0.021 ms  
Remote clock offset: -0.137 ms

```
# Below is generated by plot.py at 2019-10-03 17:03:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 62.520 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 62.582 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 62.388 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 60.239 ms
Loss rate: 0.00%
```

### Run 5: Report of WebRTC media — Data Link

