

## Pantheon Report

Generated at 2019-12-12 03:02:12 (UTC).

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

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:

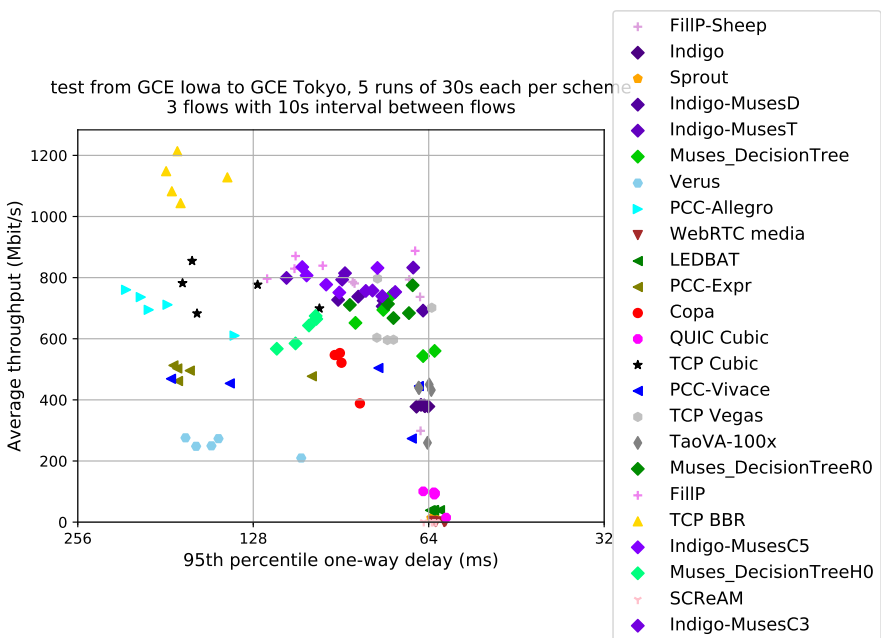
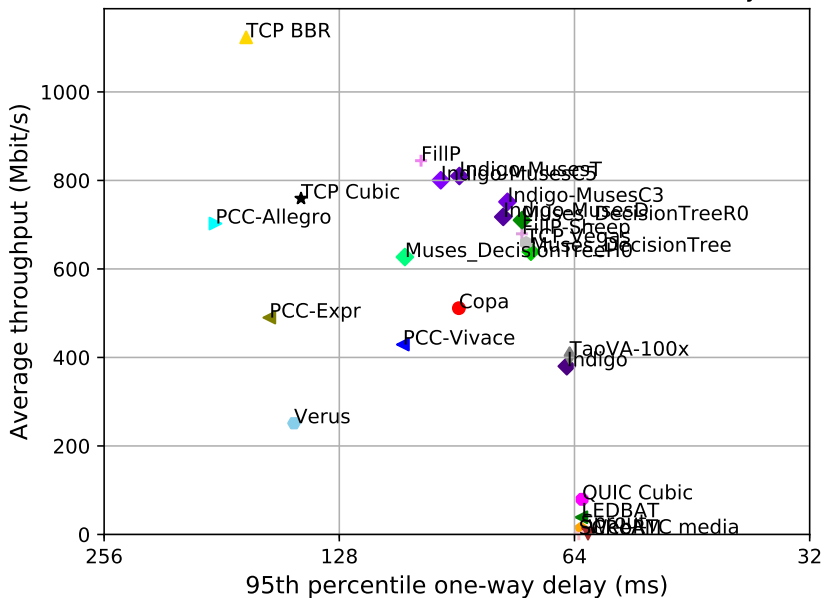
```
Linux 5.0.0-1025-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf5e58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

```
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from GCE Iowa to GCE Tokyo, 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	624.28	521.38	456.47	160.35	173.06	177.95	2.90	3.15	2.52
Copa	5	262.79	262.35	220.42	88.33	96.84	84.11	0.00	0.01	0.01
TCP Cubic	5	420.95	394.25	227.37	121.75	144.98	99.37	0.12	0.13	0.21
FillP	5	529.62	345.72	255.51	104.64	65.55	64.89	0.68	0.00	0.01
FillP-Sheep	5	402.96	305.22	221.71	79.74	64.37	63.33	0.02	0.00	0.03
Indigo	5	207.24	187.35	151.33	65.33	65.27	63.19	0.00	0.00	0.00
Indigo-MusesC3	4	448.38	379.42	248.19	83.64	69.84	63.96	0.00	0.00	0.00
Indigo-MusesC5	5	476.77	400.72	252.16	102.82	75.90	70.29	0.00	0.00	0.01
Indigo-MusesD	5	434.73	340.81	268.15	84.24	66.60	65.23	0.00	0.00	0.00
Indigo-MusesT	4	483.07	406.25	280.34	96.83	68.92	66.61	0.01	0.00	0.00
LEDBAT	5	25.27	16.40	8.05	62.28	61.92	62.31	0.00	0.00	0.00
Muses_DecisionTree	5	358.73	307.91	240.59	74.58	62.93	64.38	0.00	0.00	0.03
Muses_DecisionTreeH0	5	340.25	308.89	260.27	112.04	94.53	71.01	0.23	0.06	0.01
Muses_DecisionTreeR0	5	406.09	331.13	251.43	79.53	68.87	62.64	0.00	0.00	0.00
PCC-Allegro	5	411.98	313.30	249.67	189.65	129.15	147.70	3.45	2.01	1.36
PCC-Expr	5	280.16	244.37	142.46	156.22	138.04	81.05	1.33	1.46	0.00
QUIC Cubic	5	46.68	36.27	26.43	61.70	61.53	60.41	0.00	0.01	0.00
SCReAM	5	0.22	0.22	0.22	61.56	61.14	62.23	0.00	0.00	0.07
Sprout	5	7.01	6.87	6.54	61.52	61.17	62.70	0.00	0.00	0.00
TaoVA-100x	5	187.62	222.79	205.16	62.92	65.12	67.10	0.00	0.01	0.00
TCP Vegas	5	331.68	343.06	297.29	75.99	69.48	77.03	0.00	0.00	0.00
Verus	5	134.07	127.01	100.00	113.78	160.56	119.45	0.10	0.61	0.41
PCC-Vivace	5	235.88	226.16	129.03	88.67	90.69	63.13	0.01	0.13	0.01
WebRTC media	5	0.90	0.83	0.40	60.41	59.99	61.46	0.00	0.01	0.00

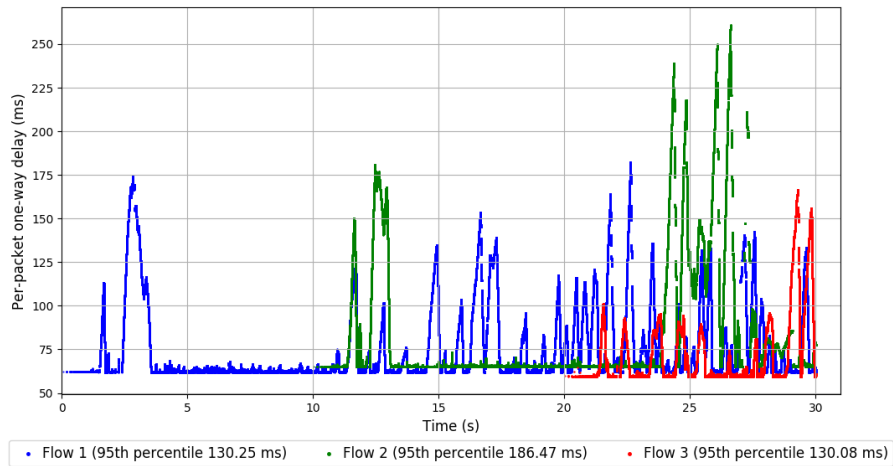
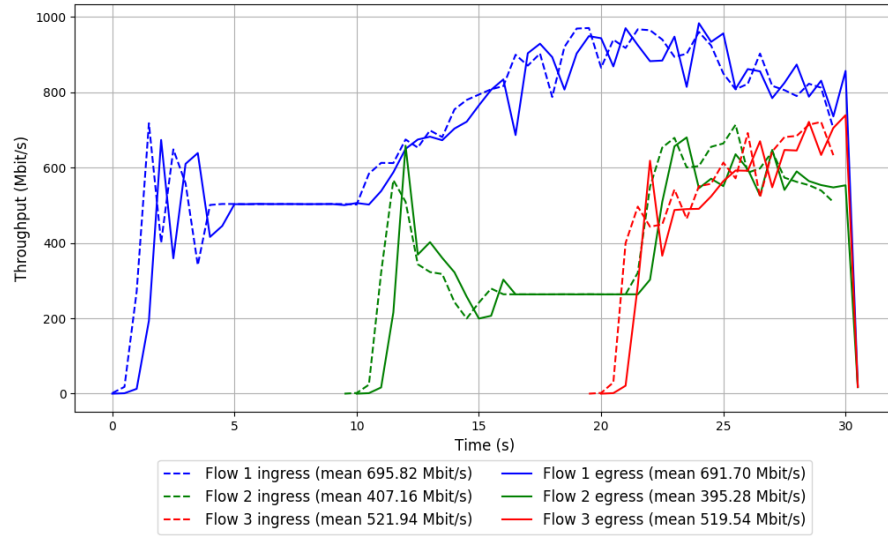


Run 1: Statistics of TCP BBR

Start at: 2019-12-11 20:06:36  
End at: 2019-12-11 20:07:06  
Local clock offset: -0.079 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-12-12 00:13:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1128.24 Mbit/s  
95th percentile per-packet one-way delay: 141.770 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 691.70 Mbit/s  
95th percentile per-packet one-way delay: 130.248 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 395.28 Mbit/s  
95th percentile per-packet one-way delay: 186.467 ms  
Loss rate: 2.93%  
-- Flow 3:  
Average throughput: 519.54 Mbit/s  
95th percentile per-packet one-way delay: 130.082 ms  
Loss rate: 0.45%

# Run 1: Report of TCP BBR — Data Link

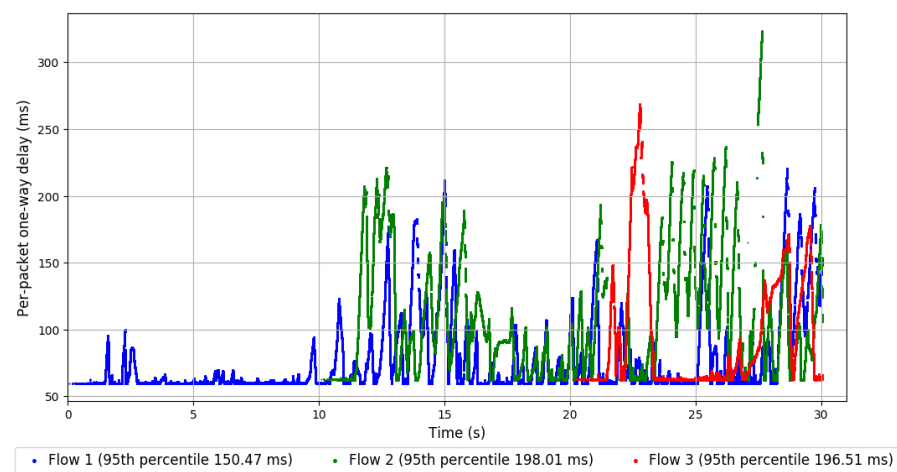
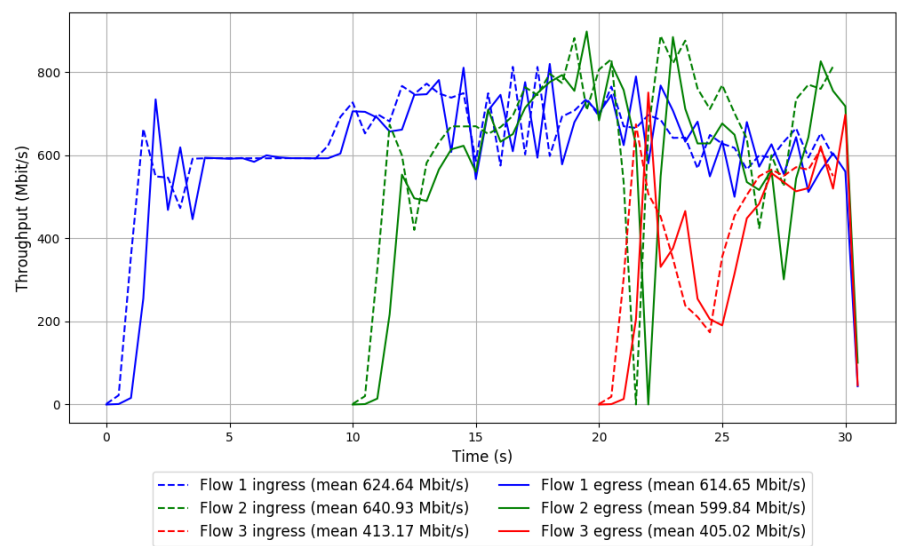


Run 2: Statistics of TCP BBR

Start at: 2019-12-11 20:47:33  
End at: 2019-12-11 20:48:03  
Local clock offset: 0.001 ms  
Remote clock offset: -0.302 ms

# Below is generated by plot.py at 2019-12-12 00:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1148.34 Mbit/s  
95th percentile per-packet one-way delay: 180.581 ms  
Loss rate: 3.37%  
-- Flow 1:  
Average throughput: 614.65 Mbit/s  
95th percentile per-packet one-way delay: 150.472 ms  
Loss rate: 1.59%  
-- Flow 2:  
Average throughput: 599.84 Mbit/s  
95th percentile per-packet one-way delay: 198.010 ms  
Loss rate: 6.41%  
-- Flow 3:  
Average throughput: 405.02 Mbit/s  
95th percentile per-packet one-way delay: 196.512 ms  
Loss rate: 1.97%

Run 2: Report of TCP BBR — Data Link

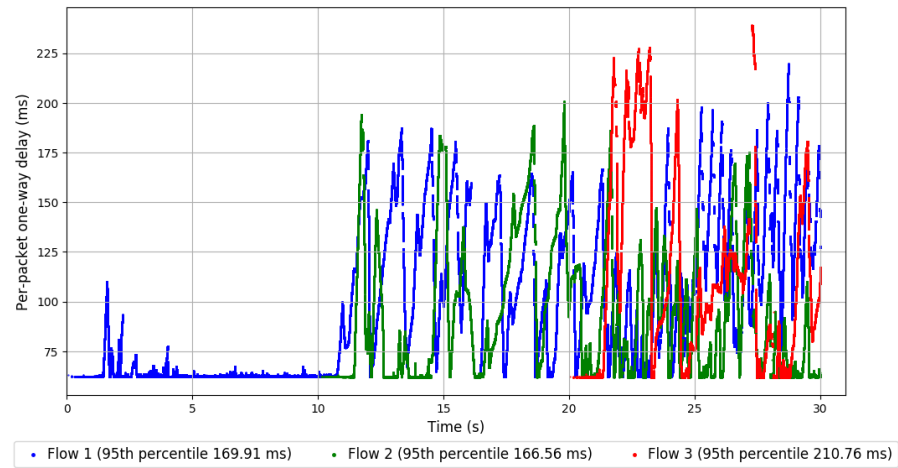
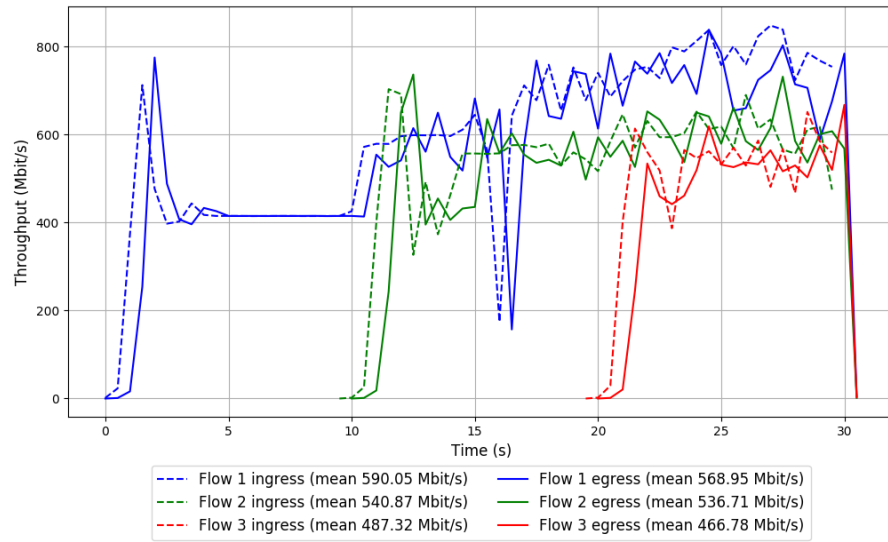


Run 3: Statistics of TCP BBR

Start at: 2019-12-11 21:28:42  
End at: 2019-12-11 21:29:12  
Local clock offset: -0.053 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-12-12 00:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1082.66 Mbit/s  
95th percentile per-packet one-way delay: 176.555 ms  
Loss rate: 2.76%  
-- Flow 1:  
Average throughput: 568.95 Mbit/s  
95th percentile per-packet one-way delay: 169.914 ms  
Loss rate: 3.58%  
-- Flow 2:  
Average throughput: 536.71 Mbit/s  
95th percentile per-packet one-way delay: 166.560 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 466.78 Mbit/s  
95th percentile per-packet one-way delay: 210.758 ms  
Loss rate: 4.21%

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

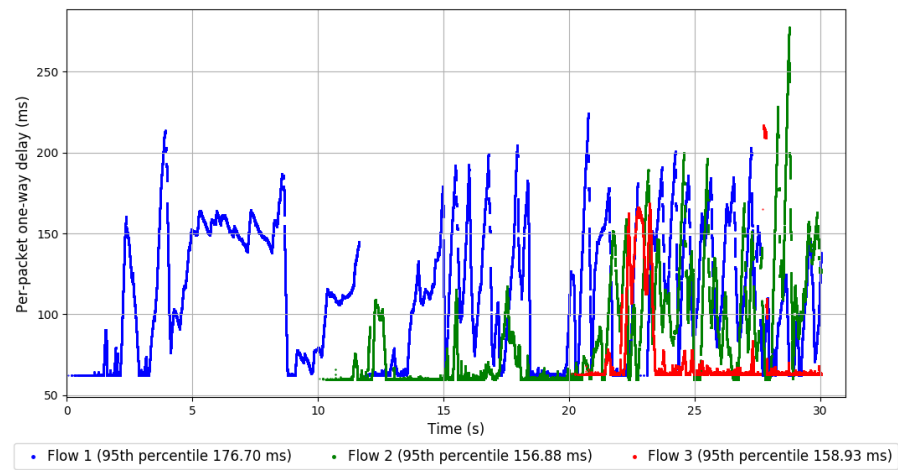
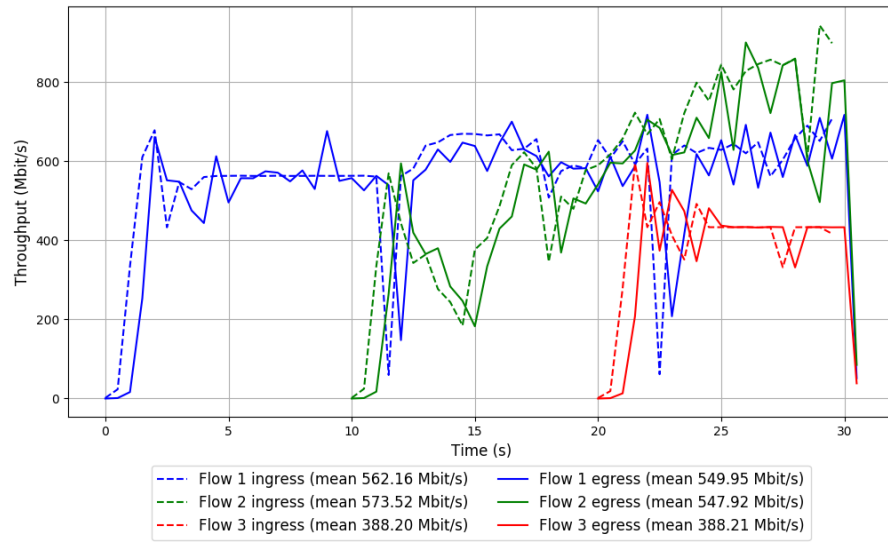


Run 4: Statistics of TCP BBR

Start at: 2019-12-11 22:09:46  
End at: 2019-12-11 22:10:16  
Local clock offset: 0.002 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-12-12 00:13:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1043.81 Mbit/s  
95th percentile per-packet one-way delay: 170.560 ms  
Loss rate: 2.72%  
-- Flow 1:  
Average throughput: 549.95 Mbit/s  
95th percentile per-packet one-way delay: 176.702 ms  
Loss rate: 2.17%  
-- Flow 2:  
Average throughput: 547.92 Mbit/s  
95th percentile per-packet one-way delay: 156.881 ms  
Loss rate: 4.45%  
-- Flow 3:  
Average throughput: 388.21 Mbit/s  
95th percentile per-packet one-way delay: 158.932 ms  
Loss rate: 0.00%

# Run 4: Report of TCP BBR — Data Link



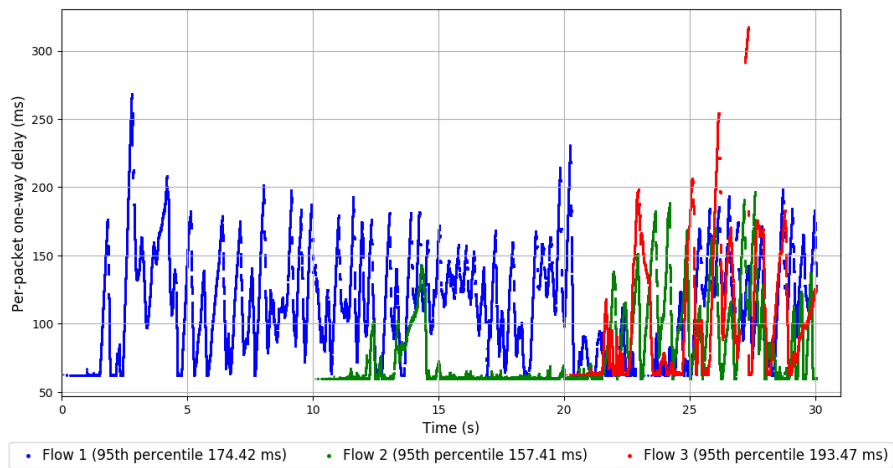
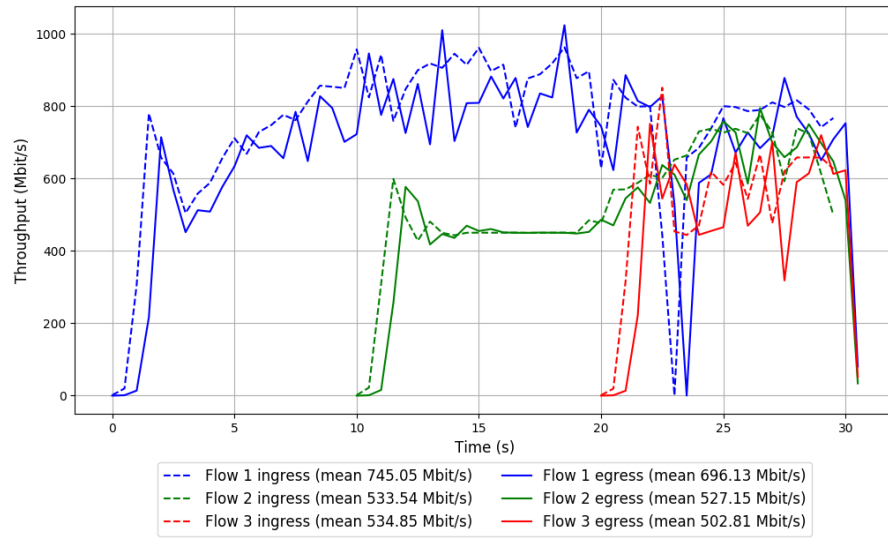


Run 5: Statistics of TCP BBR

Start at: 2019-12-11 22:50:41  
End at: 2019-12-11 22:51:11  
Local clock offset: -0.031 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-12-12 00:15:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1213.80 Mbit/s  
95th percentile per-packet one-way delay: 172.731 ms  
Loss rate: 4.99%  
-- Flow 1:  
Average throughput: 696.13 Mbit/s  
95th percentile per-packet one-way delay: 174.421 ms  
Loss rate: 6.57%  
-- Flow 2:  
Average throughput: 527.15 Mbit/s  
95th percentile per-packet one-way delay: 157.407 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 502.81 Mbit/s  
95th percentile per-packet one-way delay: 193.465 ms  
Loss rate: 5.99%

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

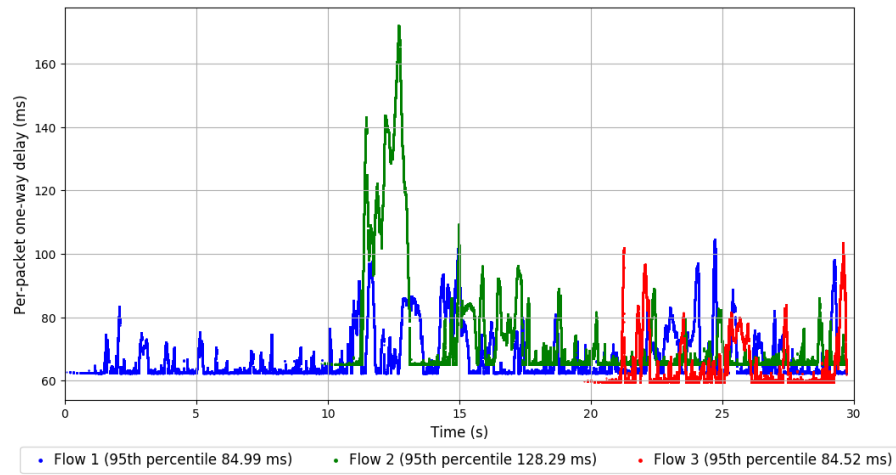
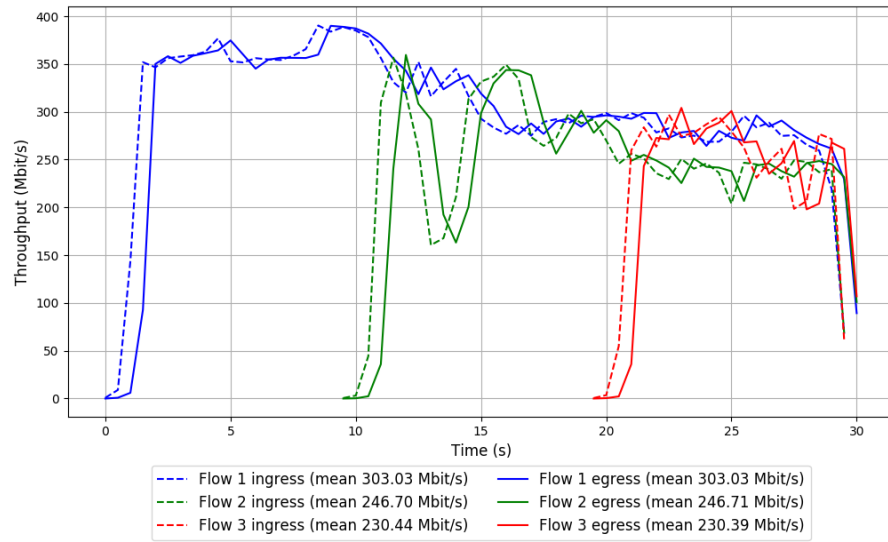


Run 1: Statistics of Copa

Start at: 2019-12-11 20:27:08  
End at: 2019-12-11 20:27:38  
Local clock offset: -0.057 ms  
Remote clock offset: -0.107 ms

# Below is generated by plot.py at 2019-12-12 00:15:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 546.72 Mbit/s  
95th percentile per-packet one-way delay: 92.768 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 303.03 Mbit/s  
95th percentile per-packet one-way delay: 84.986 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 246.71 Mbit/s  
95th percentile per-packet one-way delay: 128.288 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 230.39 Mbit/s  
95th percentile per-packet one-way delay: 84.518 ms  
Loss rate: 0.00%

## Run 1: Report of Copa — Data Link

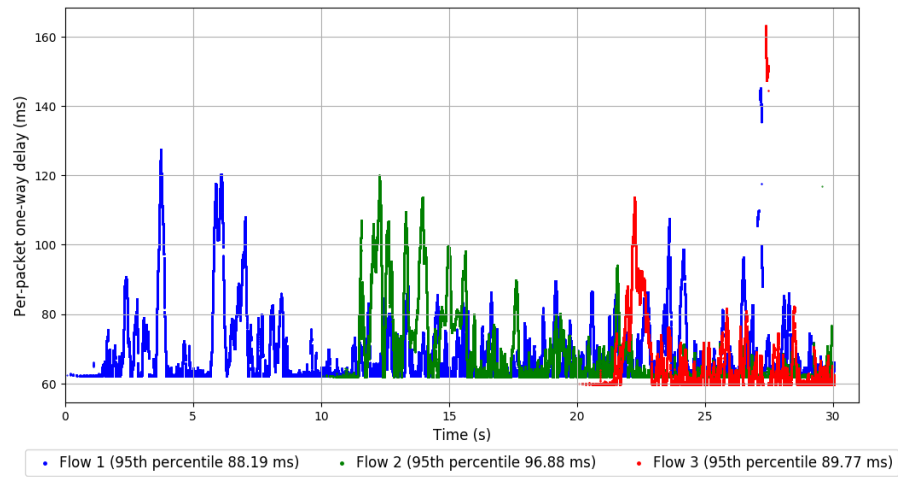
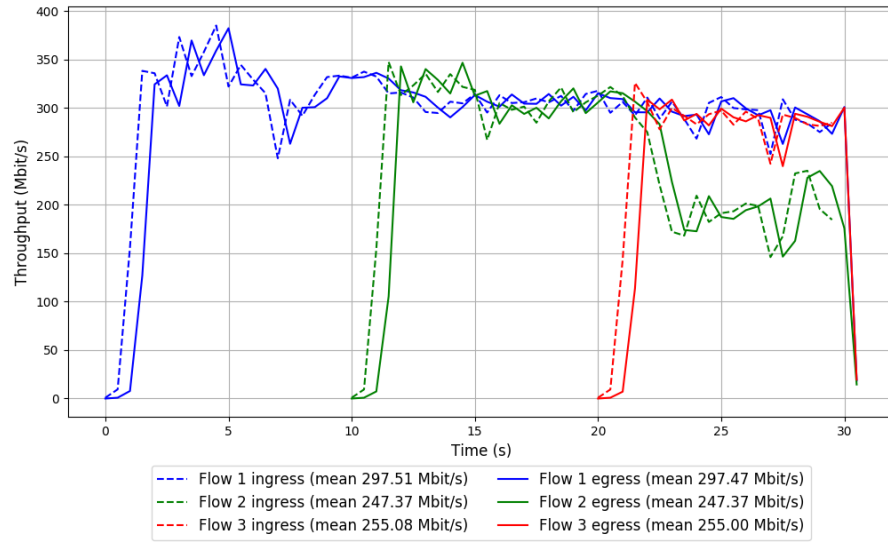


Run 2: Statistics of Copa

Start at: 2019-12-11 21:08:12  
End at: 2019-12-11 21:08:42  
Local clock offset: -0.043 ms  
Remote clock offset: -0.139 ms

# Below is generated by plot.py at 2019-12-12 00:15:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 546.84 Mbit/s  
95th percentile per-packet one-way delay: 91.917 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 297.47 Mbit/s  
95th percentile per-packet one-way delay: 88.195 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 247.37 Mbit/s  
95th percentile per-packet one-way delay: 96.882 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 255.00 Mbit/s  
95th percentile per-packet one-way delay: 89.765 ms  
Loss rate: 0.03%

## Run 2: Report of Copa — Data Link

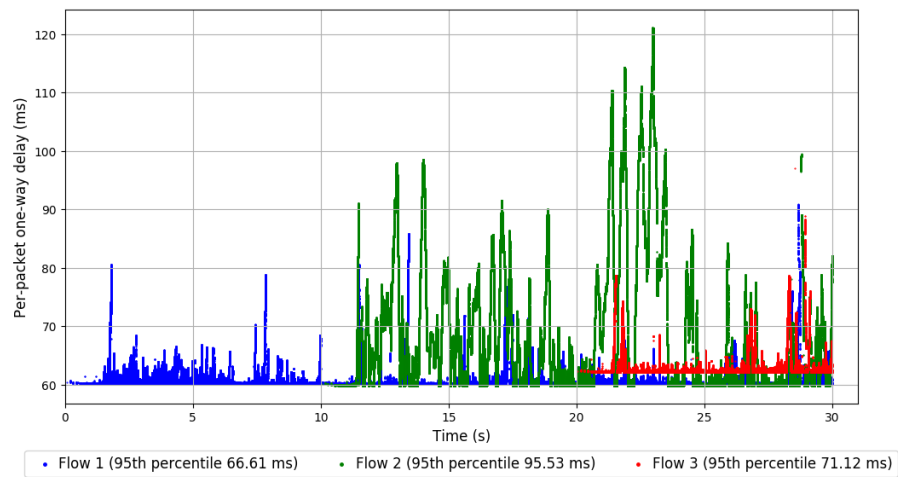
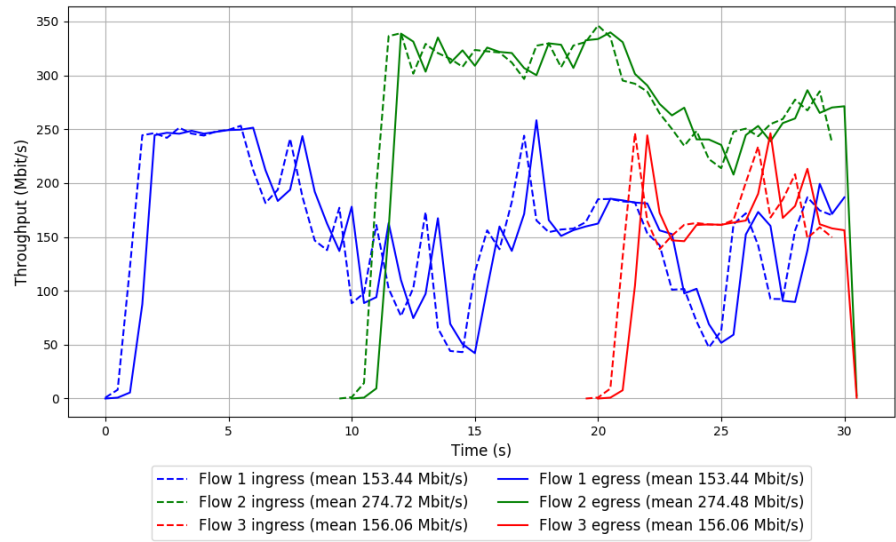


Run 3: Statistics of Copa

Start at: 2019-12-11 21:49:30  
End at: 2019-12-11 21:50:00  
Local clock offset: -0.081 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-12-12 00:15:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 388.43 Mbit/s  
95th percentile per-packet one-way delay: 83.992 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 153.44 Mbit/s  
95th percentile per-packet one-way delay: 66.609 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 274.48 Mbit/s  
95th percentile per-packet one-way delay: 95.533 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 156.06 Mbit/s  
95th percentile per-packet one-way delay: 71.123 ms  
Loss rate: 0.00%

### Run 3: Report of Copa — Data Link





Run 4: Statistics of Copa

Start at: 2019-12-11 22:30:26

End at: 2019-12-11 22:30:56

Local clock offset: 0.036 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-12-12 00:24:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 521.46 Mbit/s

95th percentile per-packet one-way delay: 90.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 270.21 Mbit/s

95th percentile per-packet one-way delay: 103.159 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 269.30 Mbit/s

95th percentile per-packet one-way delay: 77.954 ms

Loss rate: 0.00%

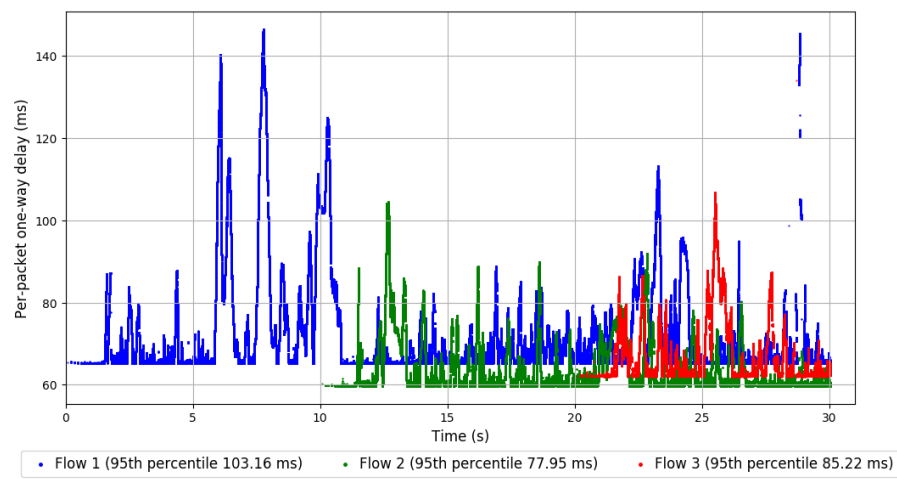
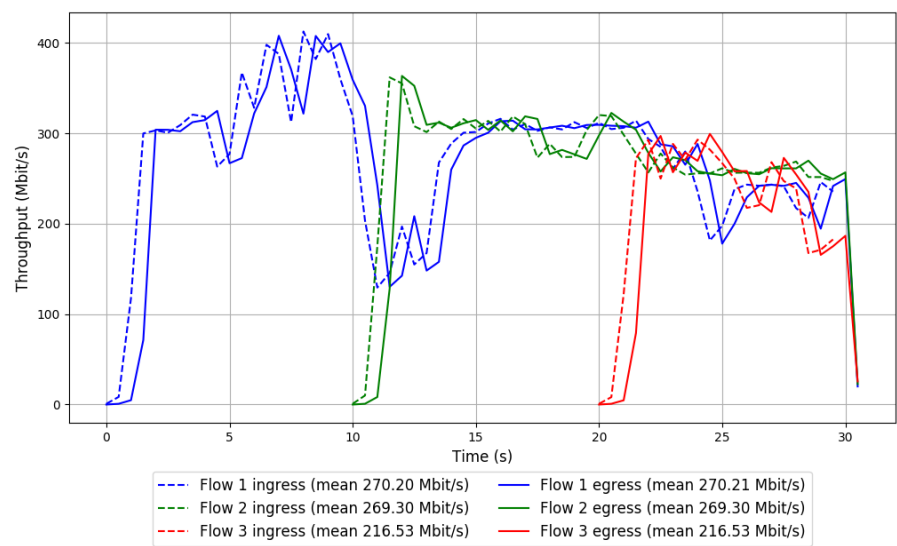
-- Flow 3:

Average throughput: 216.53 Mbit/s

95th percentile per-packet one-way delay: 85.219 ms

Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-12-11 23:11:33

End at: 2019-12-11 23:12:03

Local clock offset: -0.061 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-12-12 00:32:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 553.21 Mbit/s

95th percentile per-packet one-way delay: 90.902 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 289.80 Mbit/s

95th percentile per-packet one-way delay: 98.681 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 273.91 Mbit/s

95th percentile per-packet one-way delay: 85.528 ms

Loss rate: 0.00%

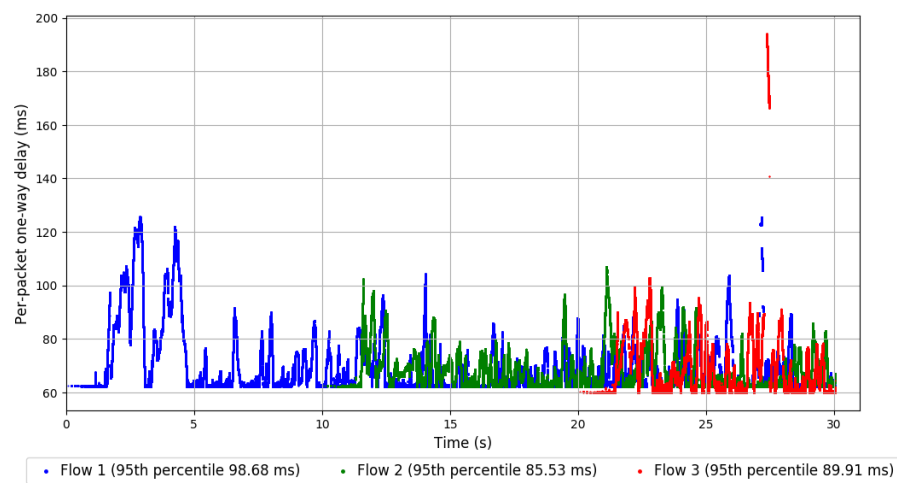
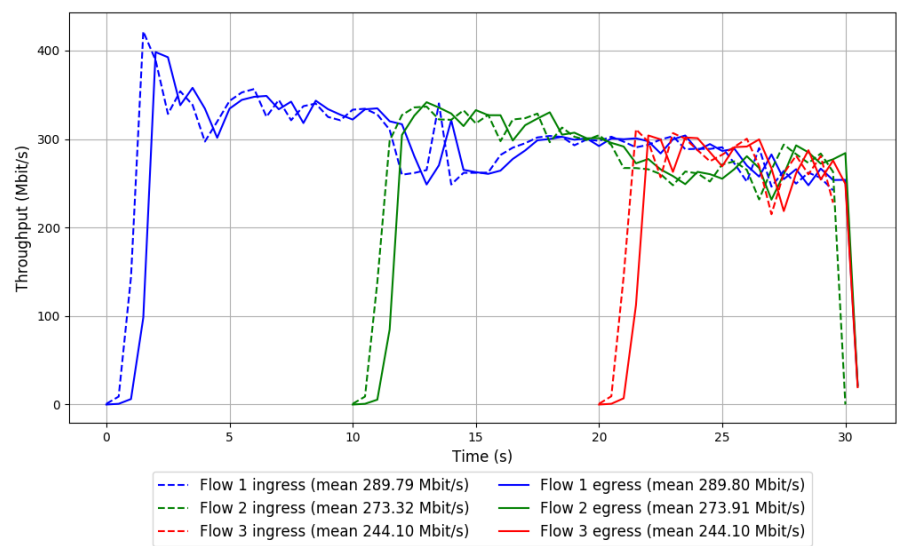
-- Flow 3:

Average throughput: 244.10 Mbit/s

95th percentile per-packet one-way delay: 89.914 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link

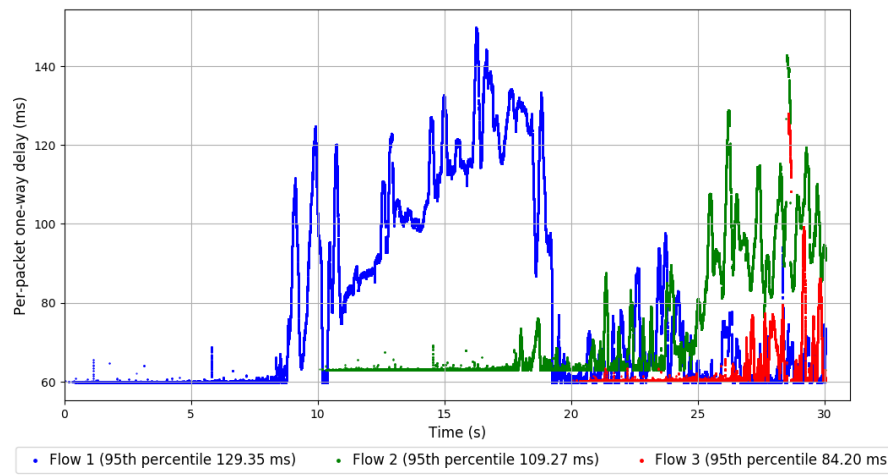
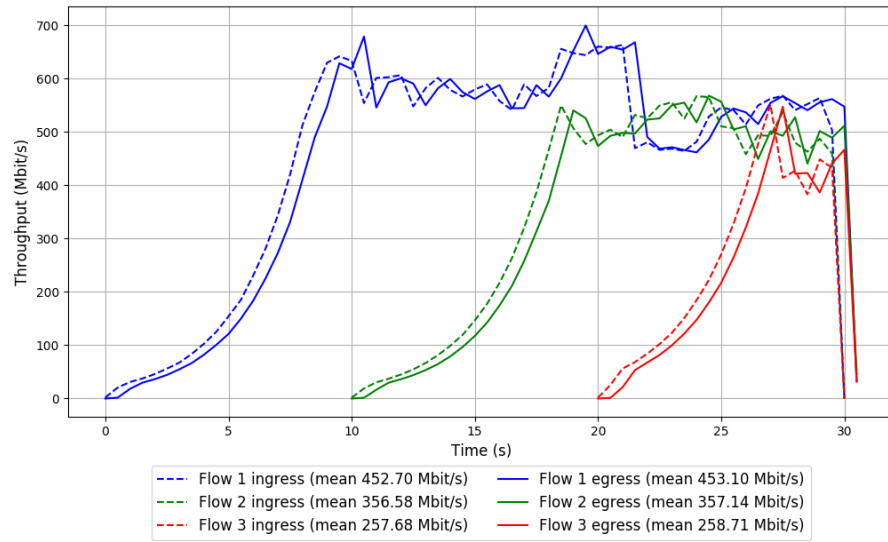


Run 1: Statistics of TCP Cubic

Start at: 2019-12-11 20:08:40  
End at: 2019-12-11 20:09:10  
Local clock offset: -0.077 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-12-12 00:32:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 776.92 Mbit/s  
95th percentile per-packet one-way delay: 125.823 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 453.10 Mbit/s  
95th percentile per-packet one-way delay: 129.349 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 357.14 Mbit/s  
95th percentile per-packet one-way delay: 109.273 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 258.71 Mbit/s  
95th percentile per-packet one-way delay: 84.196 ms  
Loss rate: 0.00%

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



Run 2: Statistics of TCP Cubic

Start at: 2019-12-11 20:49:40

End at: 2019-12-11 20:50:10

Local clock offset: 0.02 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-12-12 00:32:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 699.14 Mbit/s

95th percentile per-packet one-way delay: 98.550 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 396.90 Mbit/s

95th percentile per-packet one-way delay: 78.011 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 353.99 Mbit/s

95th percentile per-packet one-way delay: 129.261 ms

Loss rate: 0.03%

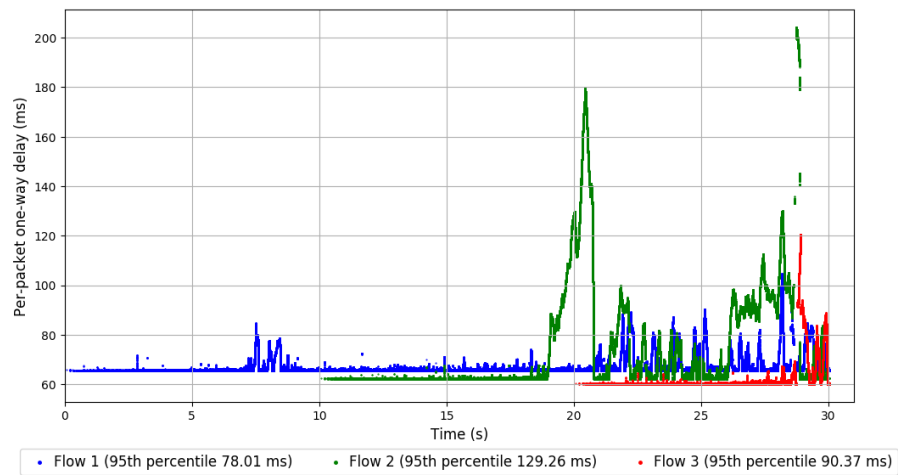
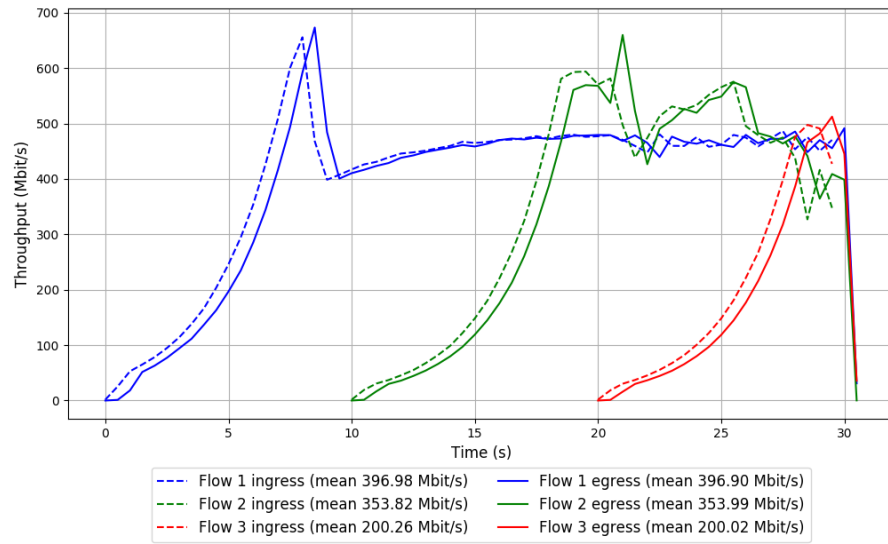
-- Flow 3:

Average throughput: 200.02 Mbit/s

95th percentile per-packet one-way delay: 90.370 ms

Loss rate: 0.19%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-12-11 21:30:47

End at: 2019-12-11 21:31:17

Local clock offset: -0.041 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-12-12 00:32:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 854.62 Mbit/s

95th percentile per-packet one-way delay: 162.989 ms

Loss rate: 0.07%

-- Flow 1:

Average throughput: 432.58 Mbit/s

95th percentile per-packet one-way delay: 169.950 ms

Loss rate: 0.11%

-- Flow 2:

Average throughput: 539.21 Mbit/s

95th percentile per-packet one-way delay: 139.476 ms

Loss rate: 0.02%

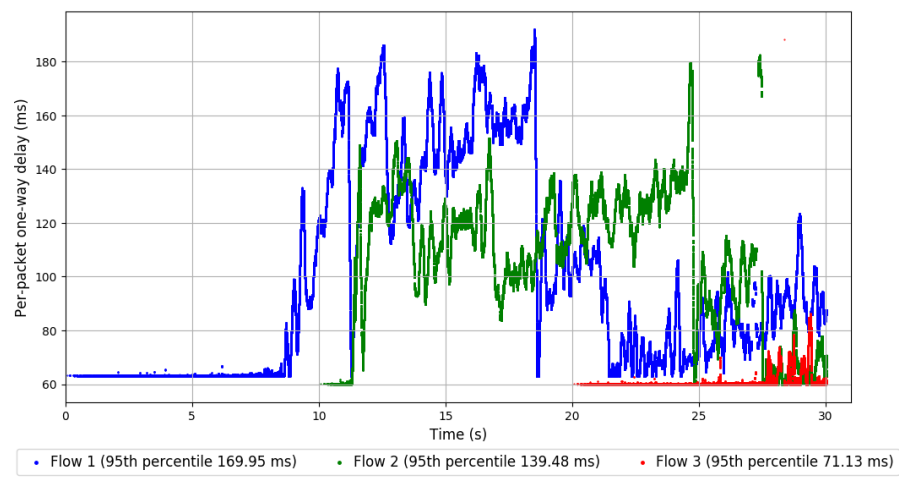
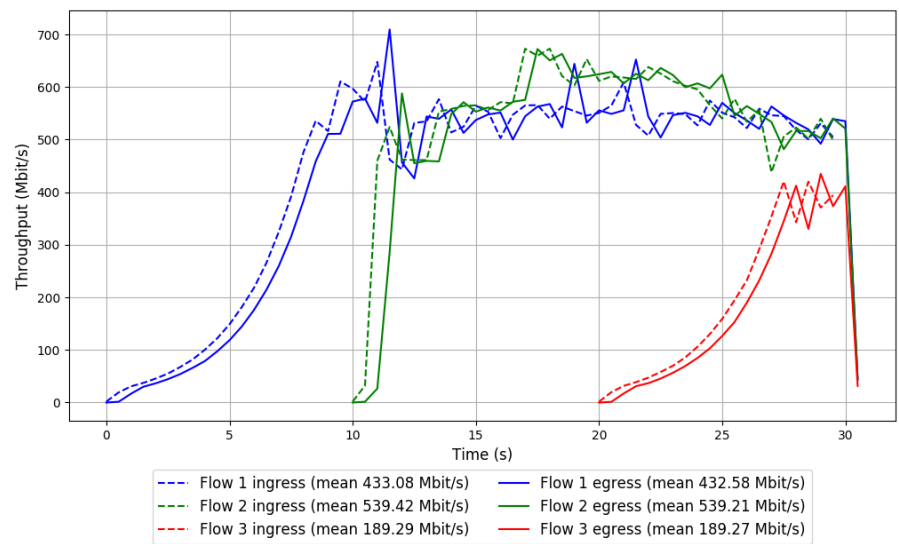
-- Flow 3:

Average throughput: 189.27 Mbit/s

95th percentile per-packet one-way delay: 71.128 ms

Loss rate: 0.00%

Run 3: Report of TCP Cubic — Data Link



Run 4: Statistics of TCP Cubic

Start at: 2019-12-11 22:11:49

End at: 2019-12-11 22:12:19

Local clock offset: -0.015 ms

Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-12-12 00:32:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 782.02 Mbit/s

95th percentile per-packet one-way delay: 169.260 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 449.93 Mbit/s

95th percentile per-packet one-way delay: 162.546 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 354.64 Mbit/s

95th percentile per-packet one-way delay: 172.621 ms

Loss rate: 0.41%

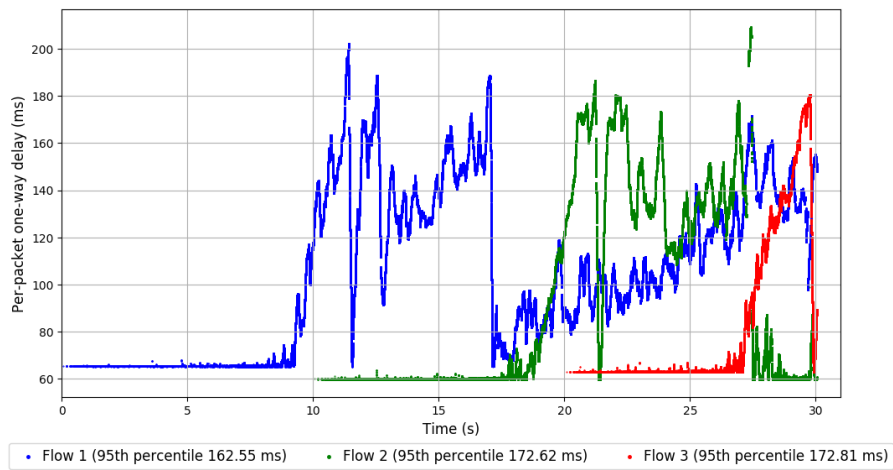
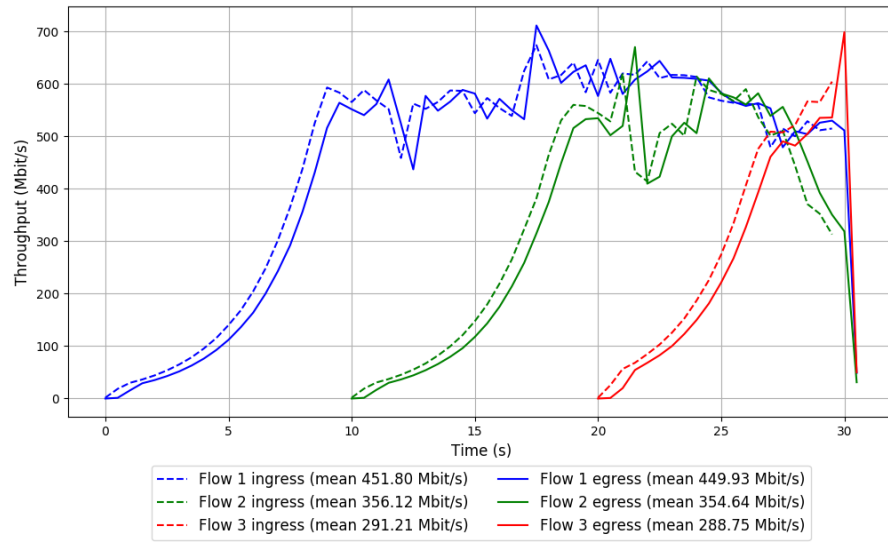
-- Flow 3:

Average throughput: 288.75 Mbit/s

95th percentile per-packet one-way delay: 172.809 ms

Loss rate: 0.85%

# Run 4: Report of TCP Cubic — Data Link

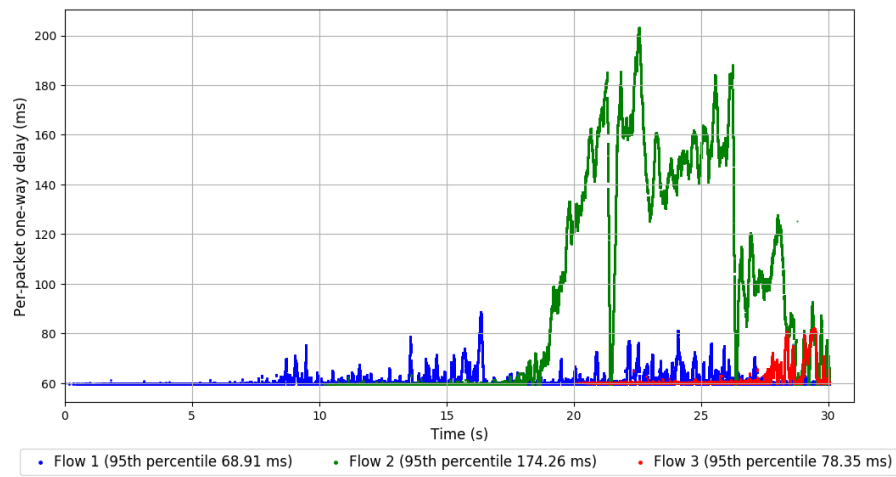
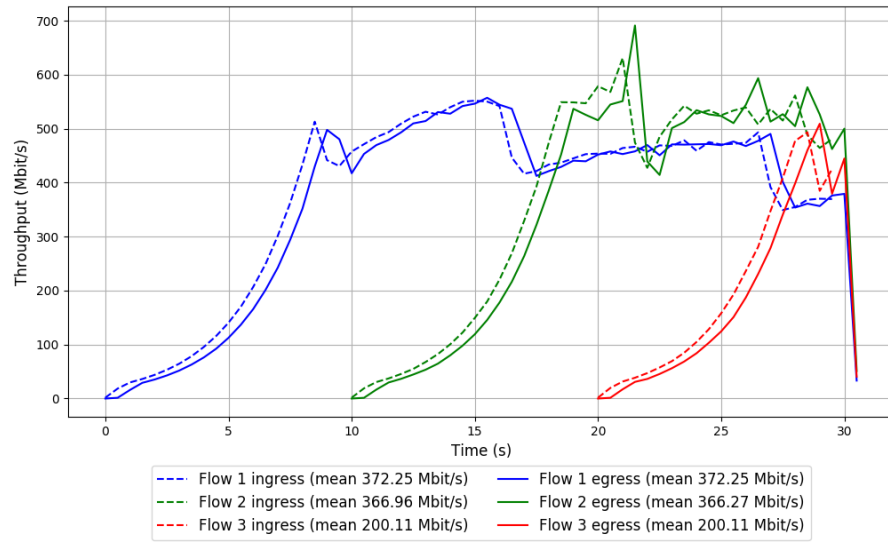


Run 5: Statistics of TCP Cubic

Start at: 2019-12-11 22:52:50  
End at: 2019-12-11 22:53:20  
Local clock offset: -0.032 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-12-12 00:32:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 682.68 Mbit/s  
95th percentile per-packet one-way delay: 159.827 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 372.25 Mbit/s  
95th percentile per-packet one-way delay: 68.907 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 366.27 Mbit/s  
95th percentile per-packet one-way delay: 174.265 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 200.11 Mbit/s  
95th percentile per-packet one-way delay: 78.349 ms  
Loss rate: 0.00%

# Run 5: Report of TCP Cubic — Data Link

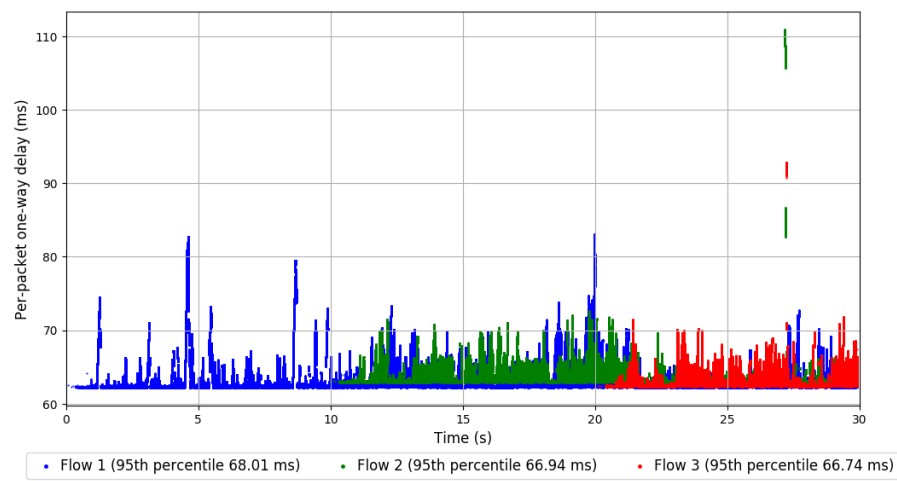
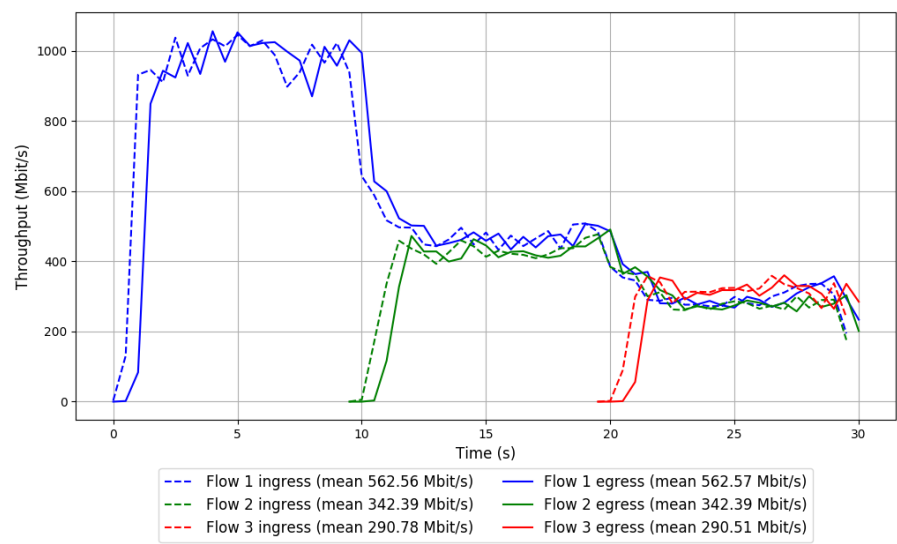


Run 1: Statistics of FillP

Start at: 2019-12-11 20:15:19  
End at: 2019-12-11 20:15:49  
Local clock offset: -0.08 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-12-12 00:35:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 887.57 Mbit/s  
95th percentile per-packet one-way delay: 67.526 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 562.57 Mbit/s  
95th percentile per-packet one-way delay: 68.013 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 342.39 Mbit/s  
95th percentile per-packet one-way delay: 66.935 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 290.51 Mbit/s  
95th percentile per-packet one-way delay: 66.739 ms  
Loss rate: 0.05%

Run 1: Report of FillP — Data Link



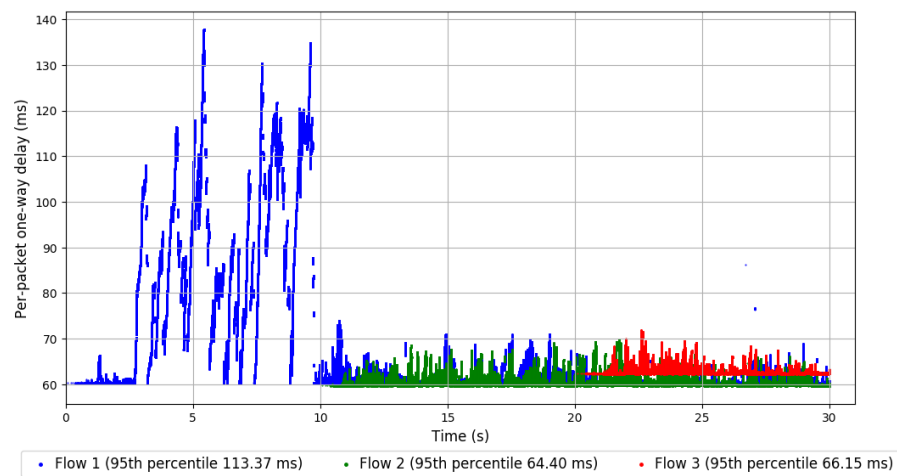
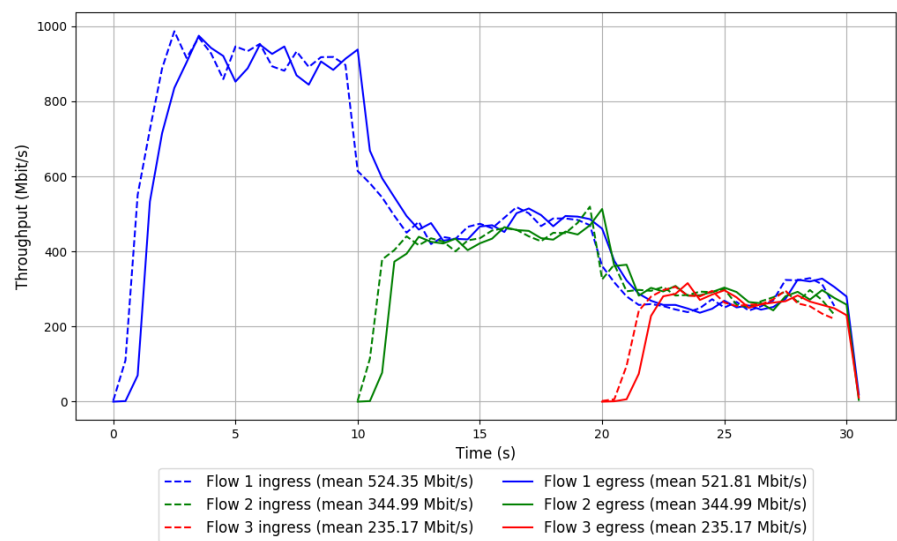


Run 2: Statistics of FillP

Start at: 2019-12-11 20:56:21  
End at: 2019-12-11 20:56:51  
Local clock offset: -0.007 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-12-12 00:45:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 829.32 Mbit/s  
95th percentile per-packet one-way delay: 108.754 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 521.81 Mbit/s  
95th percentile per-packet one-way delay: 113.368 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 344.99 Mbit/s  
95th percentile per-packet one-way delay: 64.403 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 235.17 Mbit/s  
95th percentile per-packet one-way delay: 66.150 ms  
Loss rate: 0.00%

Run 2: Report of FillP — Data Link

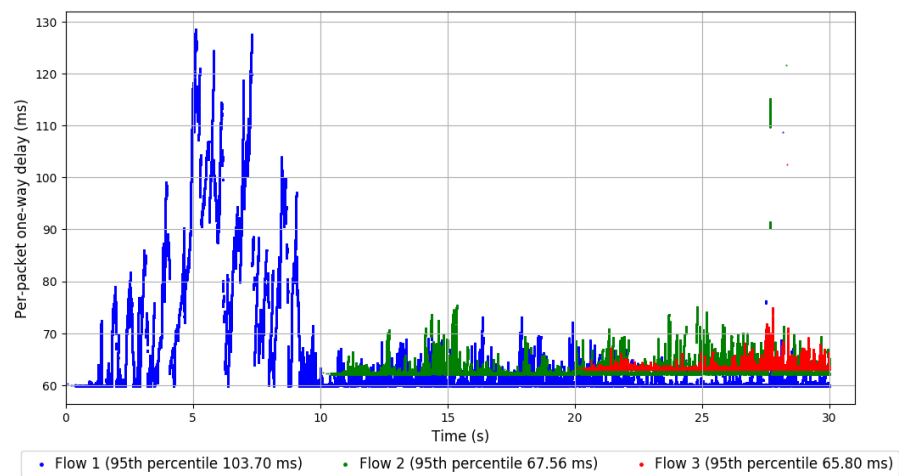
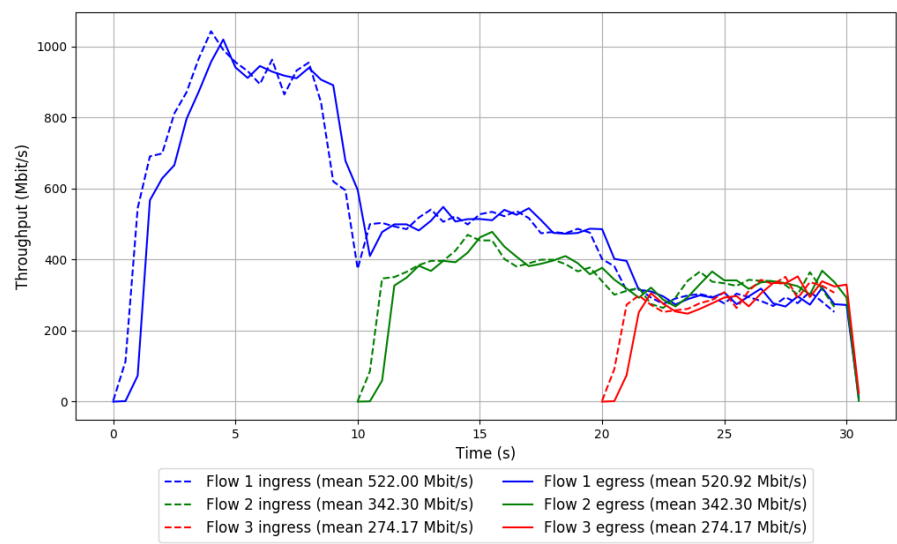


Run 3: Statistics of FillP

Start at: 2019-12-11 21:37:36  
End at: 2019-12-11 21:38:06  
Local clock offset: -0.081 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-12-12 00:46:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 839.16 Mbit/s  
95th percentile per-packet one-way delay: 97.257 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 520.92 Mbit/s  
95th percentile per-packet one-way delay: 103.699 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 342.30 Mbit/s  
95th percentile per-packet one-way delay: 67.559 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 274.17 Mbit/s  
95th percentile per-packet one-way delay: 65.796 ms  
Loss rate: 0.00%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-12-11 22:18:36

End at: 2019-12-11 22:19:06

Local clock offset: -0.043 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-12-12 00:46:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 796.39 Mbit/s

95th percentile per-packet one-way delay: 121.169 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 497.08 Mbit/s

95th percentile per-packet one-way delay: 125.249 ms

Loss rate: 2.15%

-- Flow 2:

Average throughput: 338.36 Mbit/s

95th percentile per-packet one-way delay: 64.648 ms

Loss rate: 0.02%

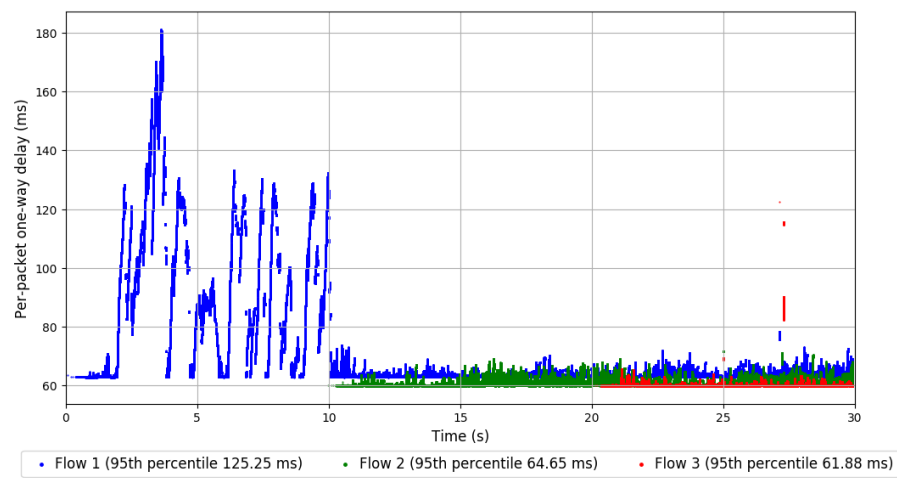
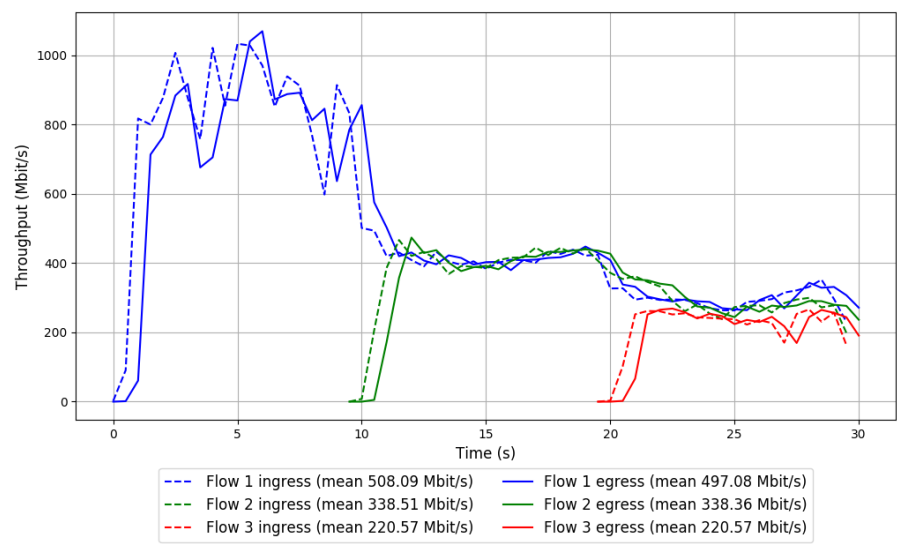
-- Flow 3:

Average throughput: 220.57 Mbit/s

95th percentile per-packet one-way delay: 61.883 ms

Loss rate: 0.00%

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-12-11 22:59:40

End at: 2019-12-11 23:00:10

Local clock offset: -0.045 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-12-12 00:49:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 870.70 Mbit/s

95th percentile per-packet one-way delay: 108.289 ms

Loss rate: 0.36%

-- Flow 1:

Average throughput: 545.73 Mbit/s

95th percentile per-packet one-way delay: 112.890 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 360.55 Mbit/s

95th percentile per-packet one-way delay: 64.182 ms

Loss rate: 0.00%

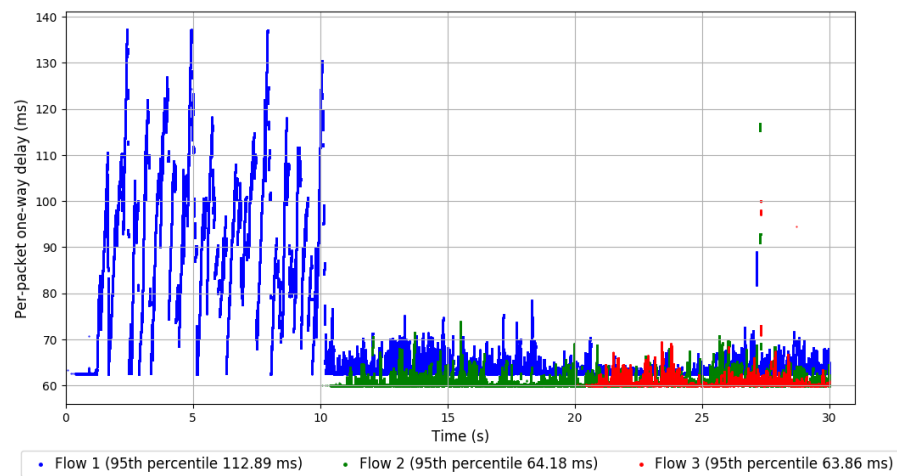
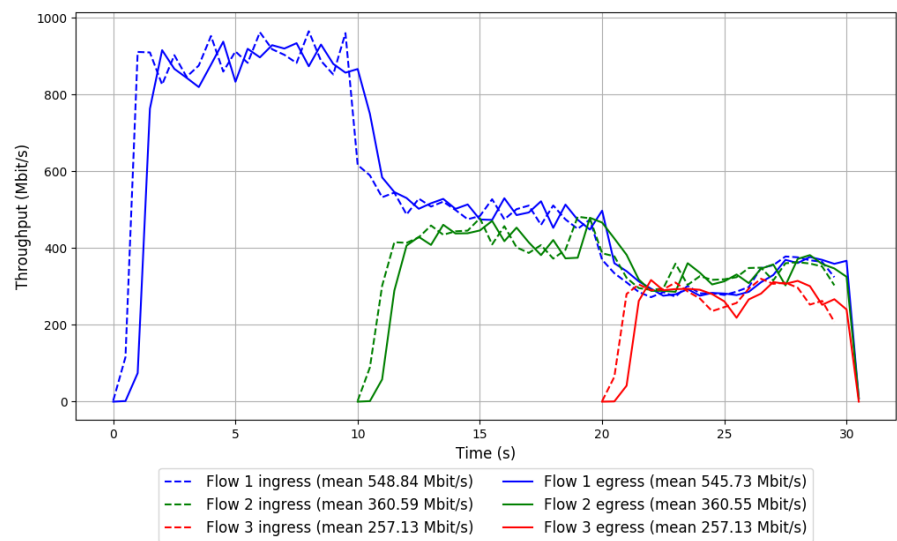
-- Flow 3:

Average throughput: 257.13 Mbit/s

95th percentile per-packet one-way delay: 63.862 ms

Loss rate: 0.00%

Run 5: Report of FillP — Data Link



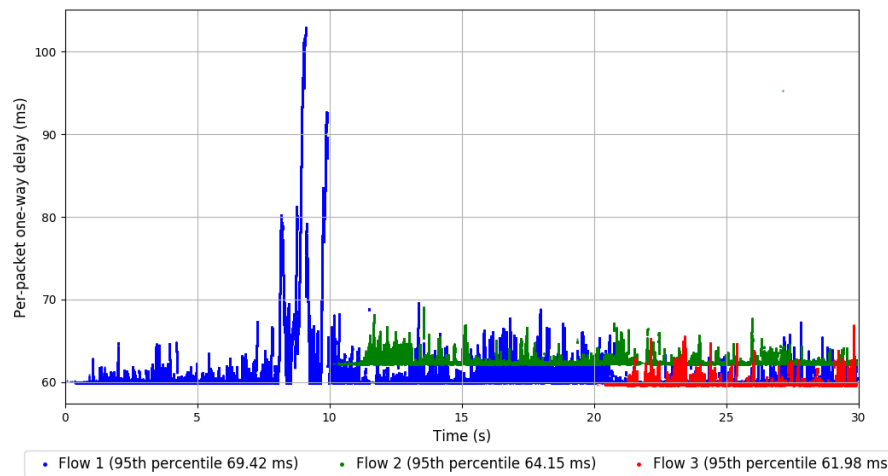
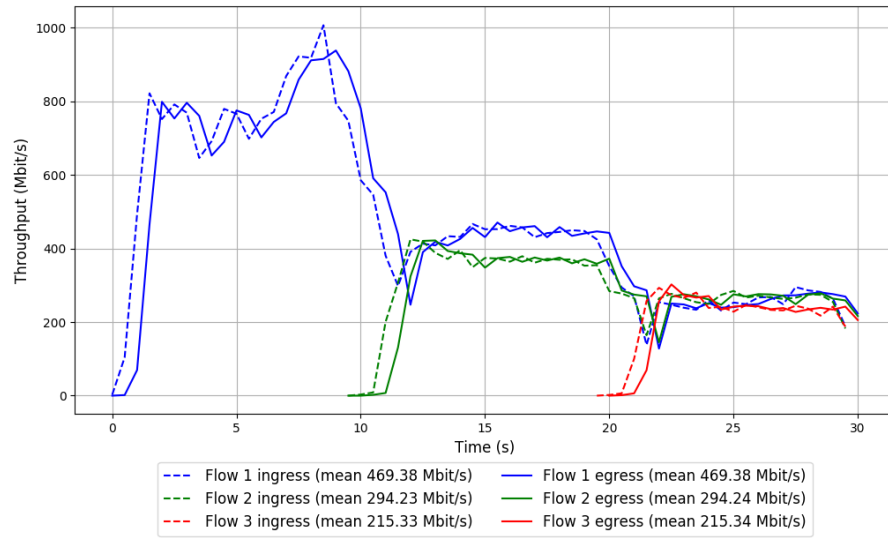


Run 1: Statistics of FillP-Sheep

Start at: 2019-12-11 20:40:17  
End at: 2019-12-11 20:40:47  
Local clock offset: -0.019 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-12-12 00:49:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 737.01 Mbit/s  
95th percentile per-packet one-way delay: 66.227 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 469.38 Mbit/s  
95th percentile per-packet one-way delay: 69.415 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 294.24 Mbit/s  
95th percentile per-packet one-way delay: 64.149 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 215.34 Mbit/s  
95th percentile per-packet one-way delay: 61.982 ms  
Loss rate: 0.00%

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

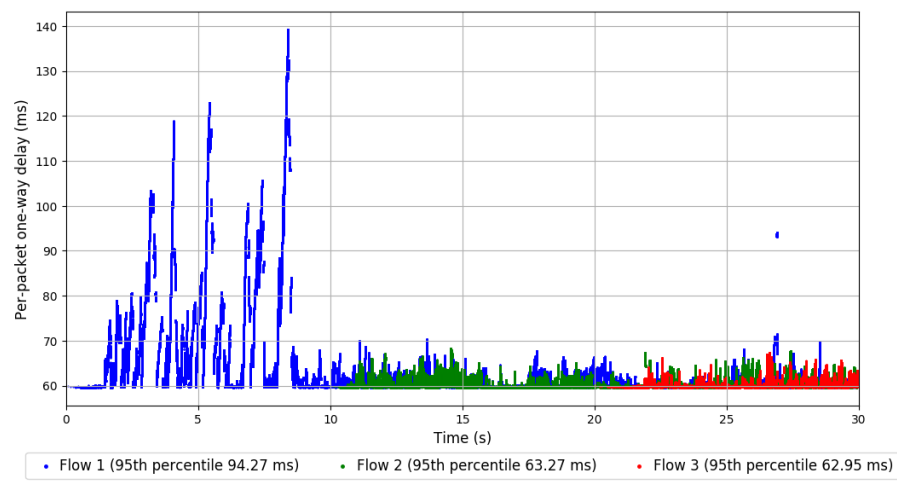
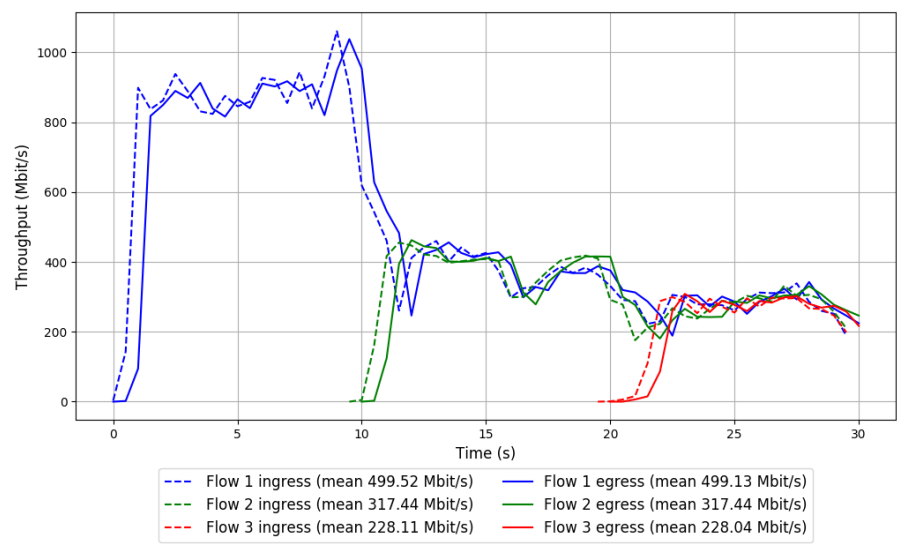


Run 2: Statistics of FillP-Sheep

Start at: 2019-12-11 21:21:22  
End at: 2019-12-11 21:21:52  
Local clock offset: -0.048 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-12-12 00:49:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 786.28 Mbit/s  
95th percentile per-packet one-way delay: 86.418 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 499.13 Mbit/s  
95th percentile per-packet one-way delay: 94.270 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 317.44 Mbit/s  
95th percentile per-packet one-way delay: 63.272 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 228.04 Mbit/s  
95th percentile per-packet one-way delay: 62.951 ms  
Loss rate: 0.00%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-12-11 22:02:27

End at: 2019-12-11 22:02:57

Local clock offset: -0.075 ms

Remote clock offset: -0.14 ms

# Below is generated by plot.py at 2019-12-12 00:51:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 793.90 Mbit/s

95th percentile per-packet one-way delay: 69.118 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 507.48 Mbit/s

95th percentile per-packet one-way delay: 73.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 315.66 Mbit/s

95th percentile per-packet one-way delay: 64.522 ms

Loss rate: 0.00%

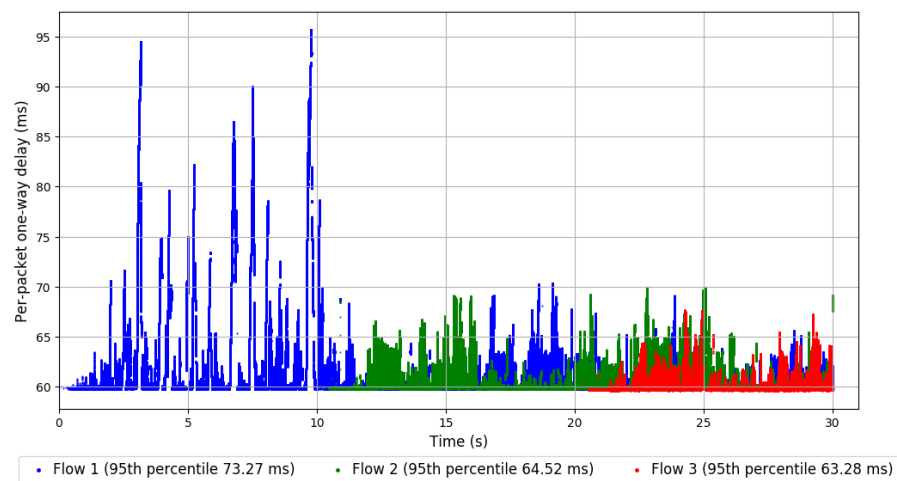
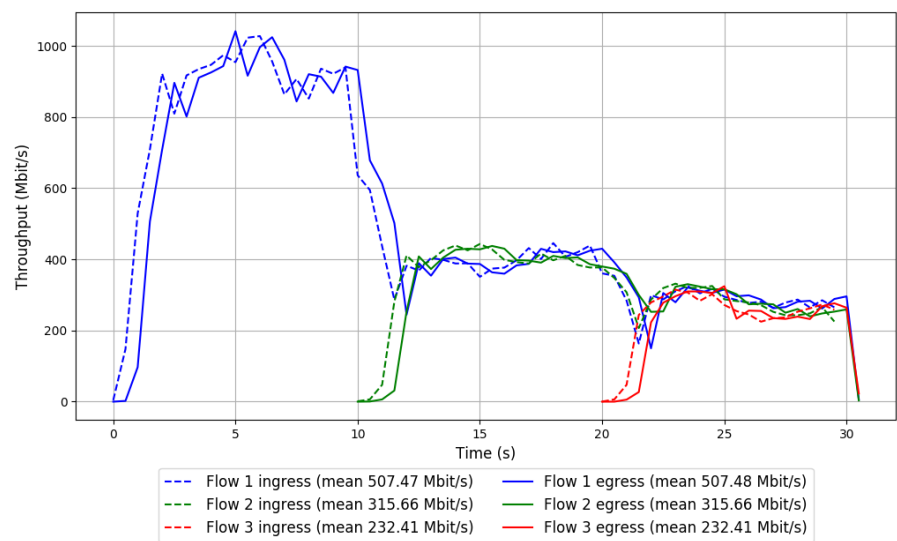
-- Flow 3:

Average throughput: 232.41 Mbit/s

95th percentile per-packet one-way delay: 63.282 ms

Loss rate: 0.00%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-12-11 22:43:40

End at: 2019-12-11 22:44:10

Local clock offset: 0.018 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-12-12 00:51:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 298.70 Mbit/s

95th percentile per-packet one-way delay: 66.094 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 34.03 Mbit/s

95th percentile per-packet one-way delay: 70.192 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 295.72 Mbit/s

95th percentile per-packet one-way delay: 66.207 ms

Loss rate: 0.00%

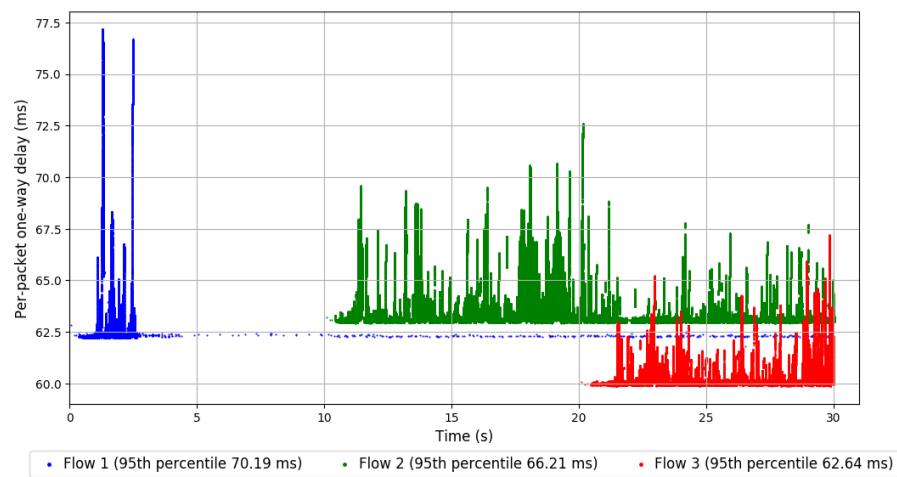
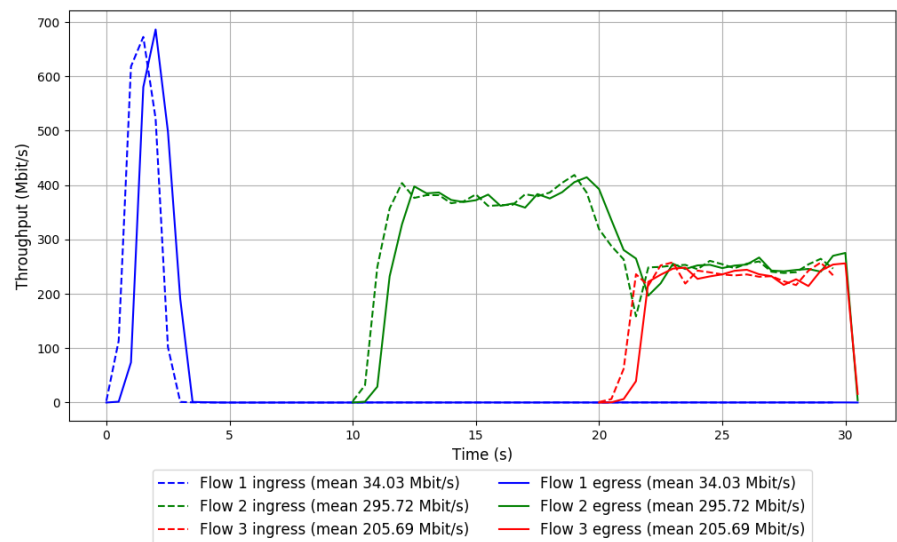
-- Flow 3:

Average throughput: 205.69 Mbit/s

95th percentile per-packet one-way delay: 62.638 ms

Loss rate: 0.00%

Run 4: Report of FillP-Sheep — Data Link



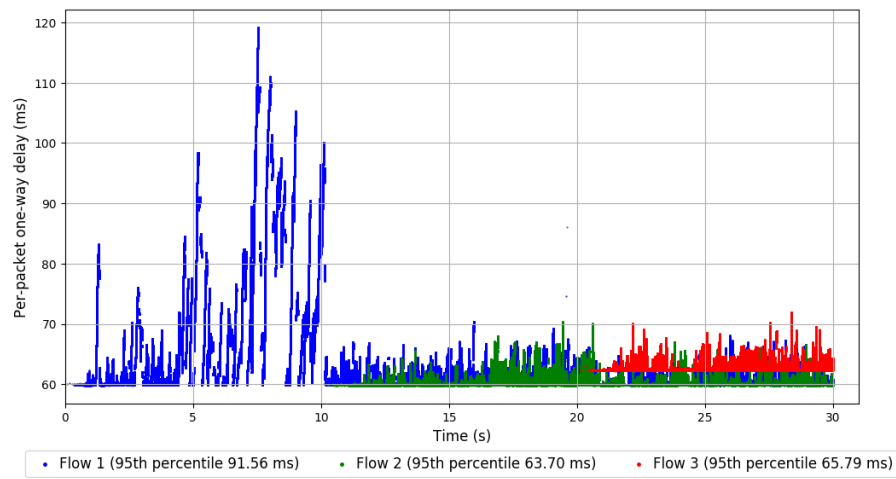
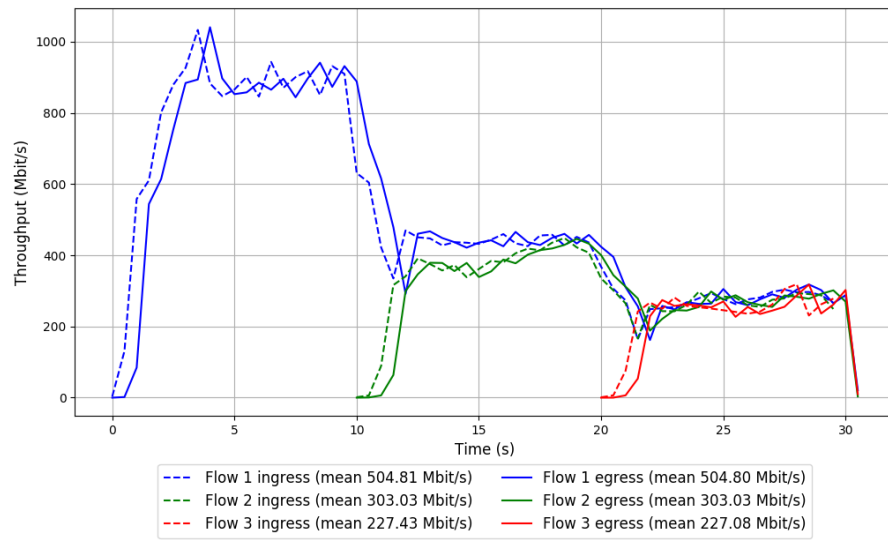


Run 5: Statistics of FillP-Sheep

Start at: 2019-12-11 23:24:53  
End at: 2019-12-11 23:25:23  
Local clock offset: -0.062 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-12-12 01:04:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 781.01 Mbit/s  
95th percentile per-packet one-way delay: 85.792 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 504.80 Mbit/s  
95th percentile per-packet one-way delay: 91.562 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 303.03 Mbit/s  
95th percentile per-packet one-way delay: 63.697 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 227.08 Mbit/s  
95th percentile per-packet one-way delay: 65.792 ms  
Loss rate: 0.17%

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

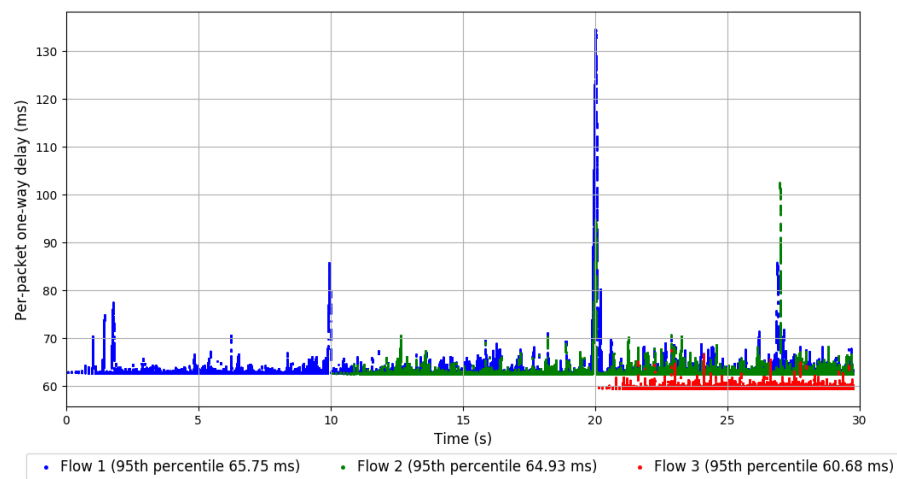
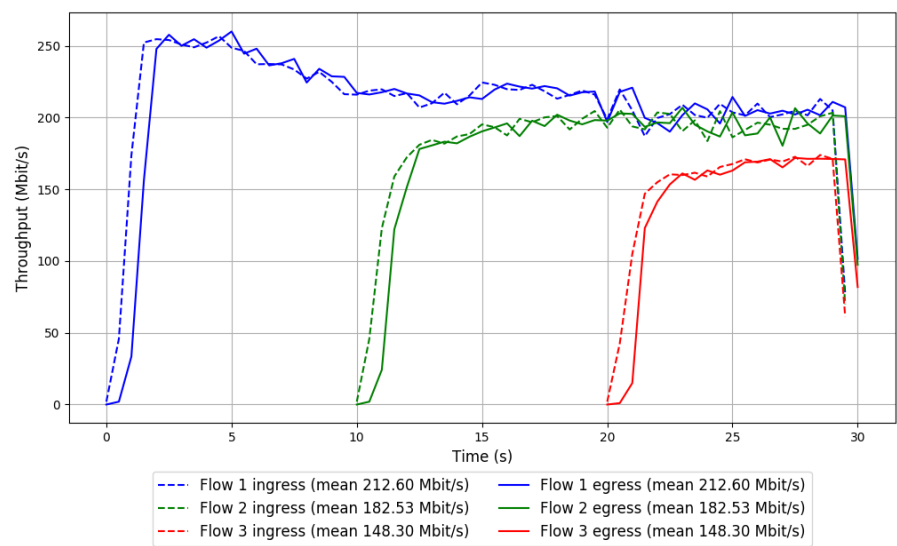


Run 1: Statistics of Indigo

Start at: 2019-12-11 20:31:00  
End at: 2019-12-11 20:31:30  
Local clock offset: -0.028 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-12-12 01:04:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 381.63 Mbit/s  
95th percentile per-packet one-way delay: 65.150 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 212.60 Mbit/s  
95th percentile per-packet one-way delay: 65.755 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 182.53 Mbit/s  
95th percentile per-packet one-way delay: 64.926 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 148.30 Mbit/s  
95th percentile per-packet one-way delay: 60.681 ms  
Loss rate: 0.00%

Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2019-12-11 21:12:07

End at: 2019-12-11 21:12:37

Local clock offset: -0.069 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-12-12 01:04:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 378.36 Mbit/s

95th percentile per-packet one-way delay: 64.093 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 193.52 Mbit/s

95th percentile per-packet one-way delay: 62.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 200.48 Mbit/s

95th percentile per-packet one-way delay: 66.096 ms

Loss rate: 0.00%

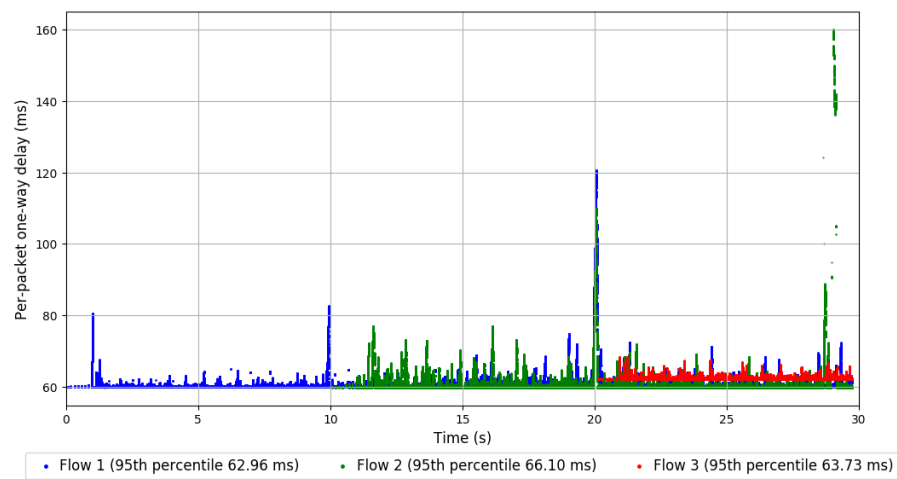
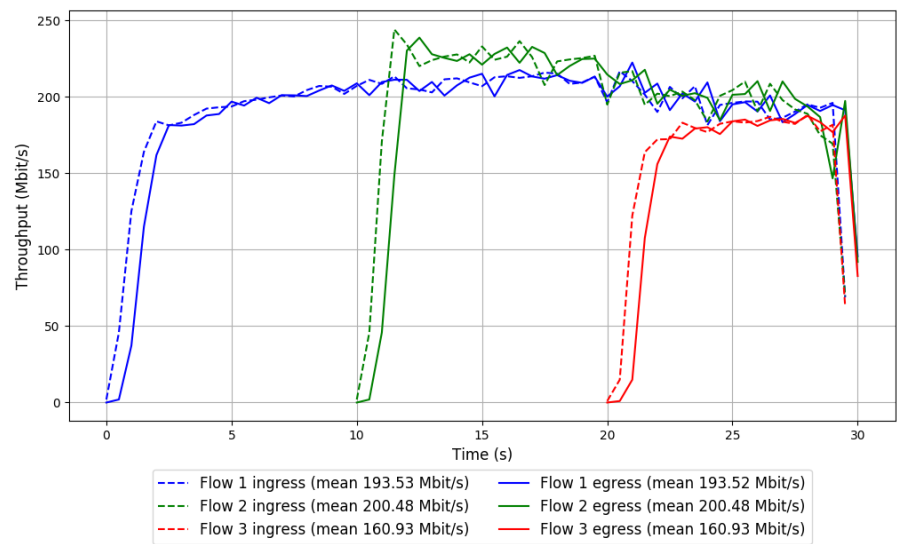
-- Flow 3:

Average throughput: 160.93 Mbit/s

95th percentile per-packet one-way delay: 63.732 ms

Loss rate: 0.00%

Run 2: Report of Indigo — Data Link

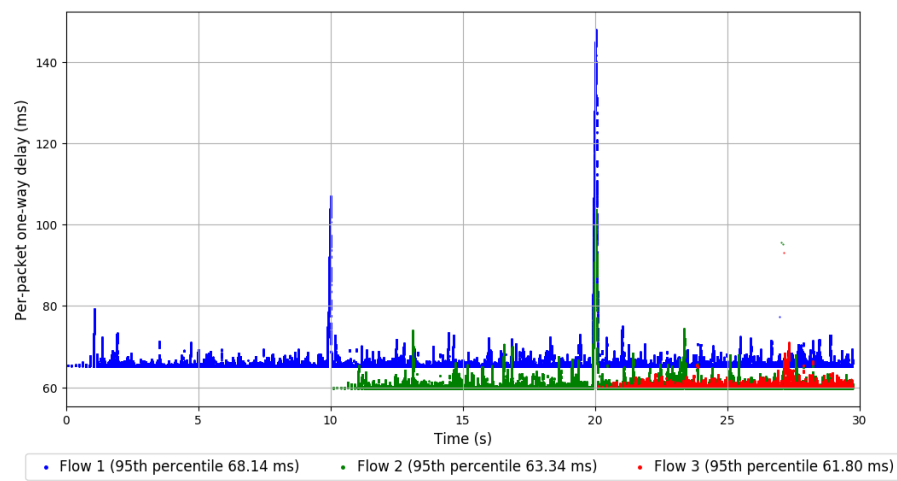
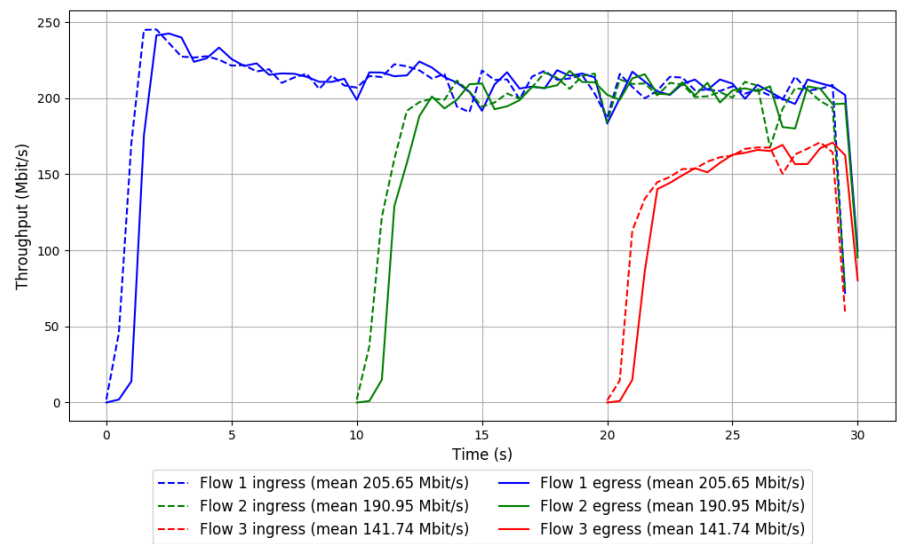


Run 3: Statistics of Indigo

Start at: 2019-12-11 21:53:09  
End at: 2019-12-11 21:53:39  
Local clock offset: -0.068 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-12-12 01:04:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 377.72 Mbit/s  
95th percentile per-packet one-way delay: 67.165 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 205.65 Mbit/s  
95th percentile per-packet one-way delay: 68.143 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 190.95 Mbit/s  
95th percentile per-packet one-way delay: 63.344 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 141.74 Mbit/s  
95th percentile per-packet one-way delay: 61.802 ms  
Loss rate: 0.00%

Run 3: Report of Indigo — Data Link



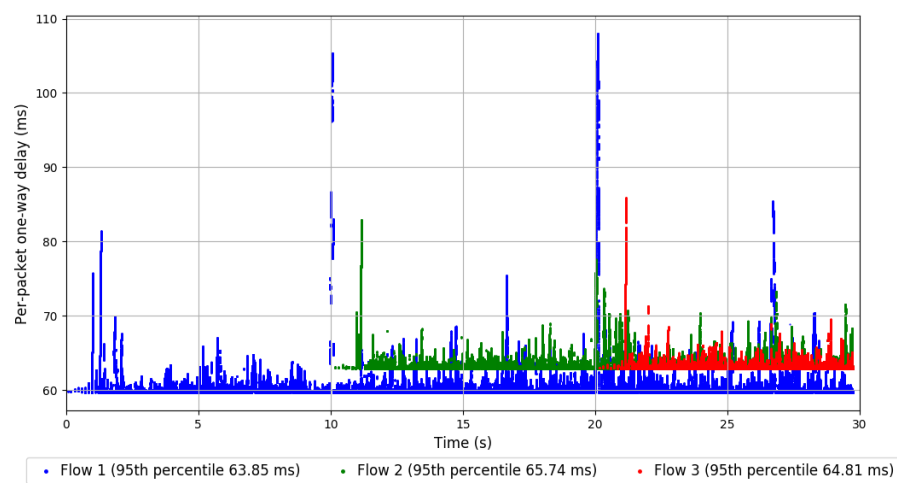
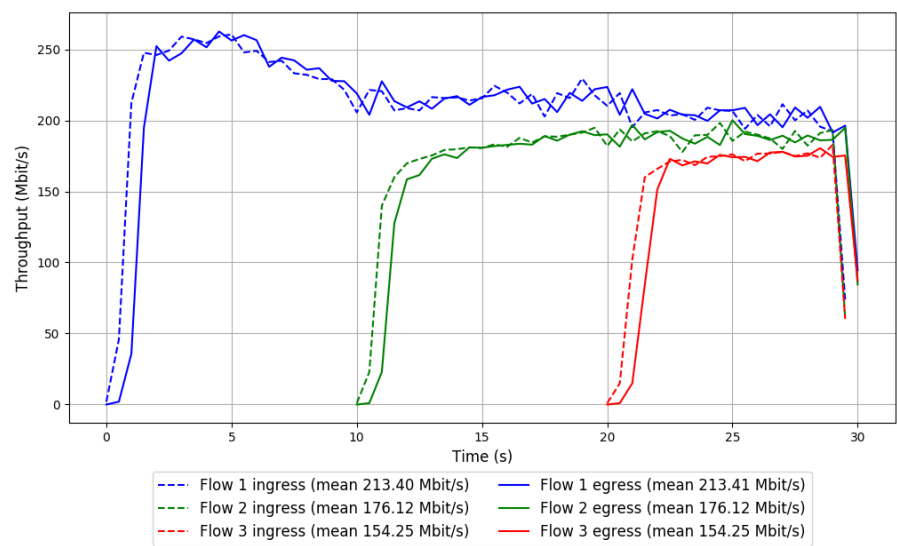


Run 4: Statistics of Indigo

Start at: 2019-12-11 22:34:21  
End at: 2019-12-11 22:34:51  
Local clock offset: 0.051 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-12-12 01:04:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 379.27 Mbit/s  
95th percentile per-packet one-way delay: 64.953 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 213.41 Mbit/s  
95th percentile per-packet one-way delay: 63.846 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 176.12 Mbit/s  
95th percentile per-packet one-way delay: 65.737 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 154.25 Mbit/s  
95th percentile per-packet one-way delay: 64.812 ms  
Loss rate: 0.00%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-12-11 23:15:32

End at: 2019-12-11 23:16:02

Local clock offset: -0.011 ms

Remote clock offset: 0.09 ms

# Below is generated by plot.py at 2019-12-12 01:04:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 383.64 Mbit/s

95th percentile per-packet one-way delay: 65.985 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 211.04 Mbit/s

95th percentile per-packet one-way delay: 65.971 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 186.68 Mbit/s

95th percentile per-packet one-way delay: 66.257 ms

Loss rate: 0.00%

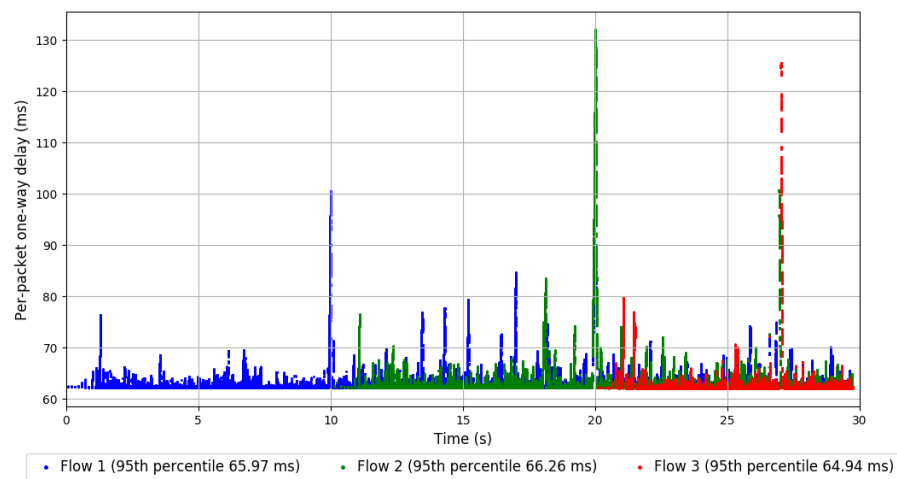
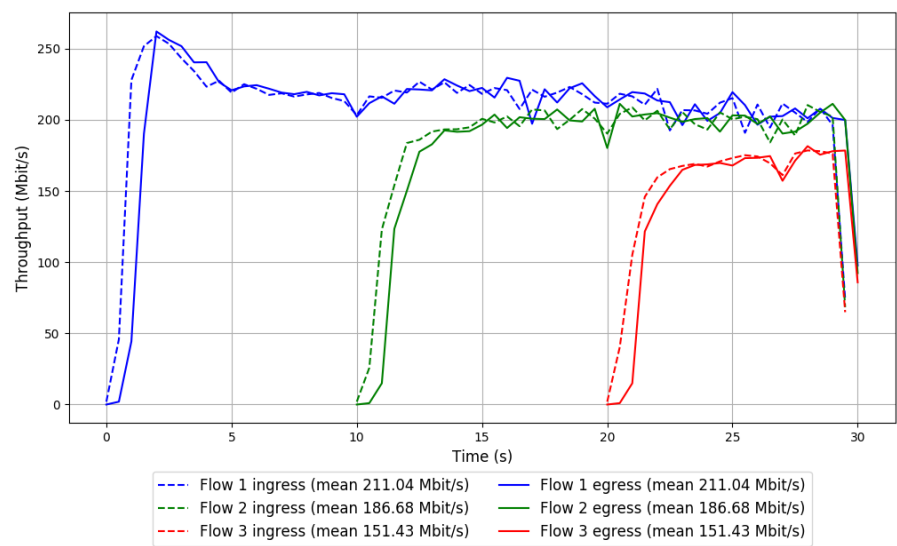
-- Flow 3:

Average throughput: 151.43 Mbit/s

95th percentile per-packet one-way delay: 64.936 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link



Run 1: Statistics of Indigo-MusesC3

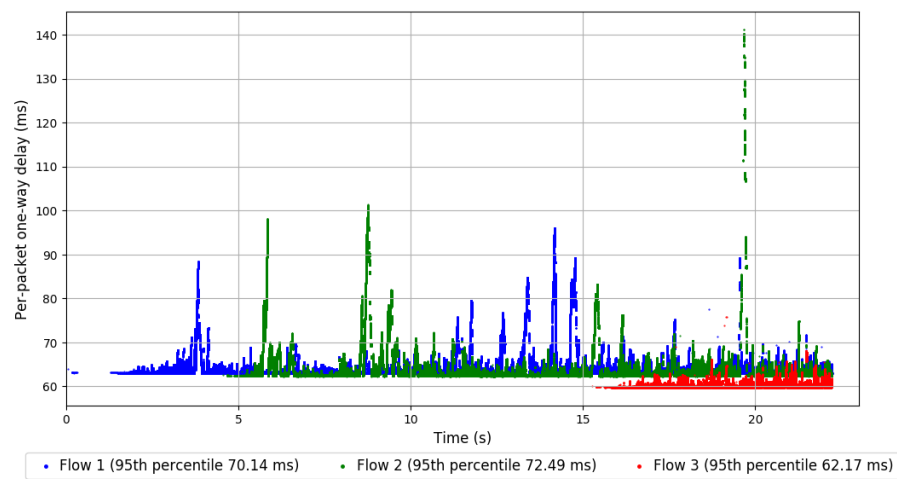
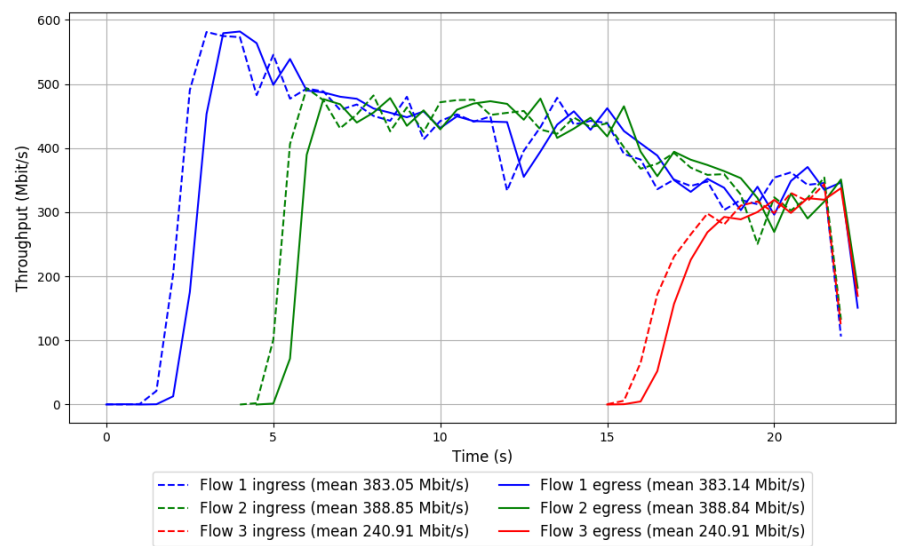
Start at: 2019-12-11 20:12:22

End at: 2019-12-11 20:12:52

Local clock offset: -0.087 ms

Remote clock offset: -0.055 ms

Run 1: Report of Indigo-MusesC3 — Data Link

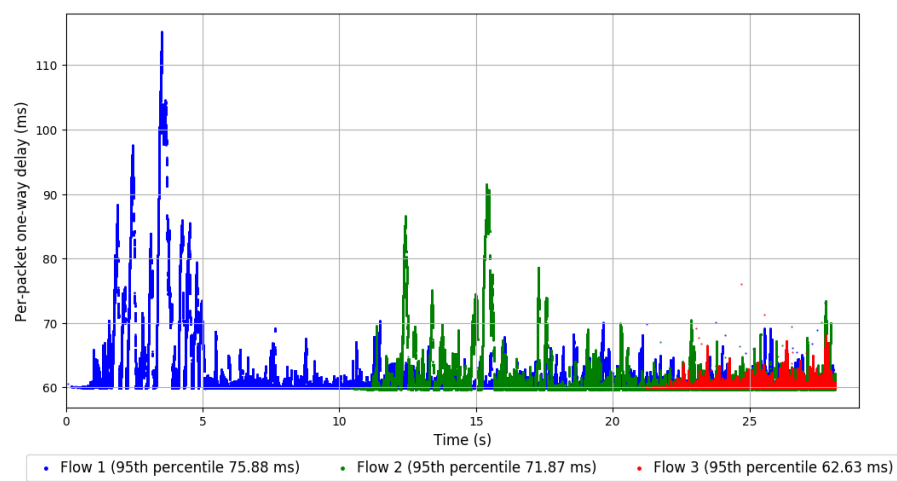
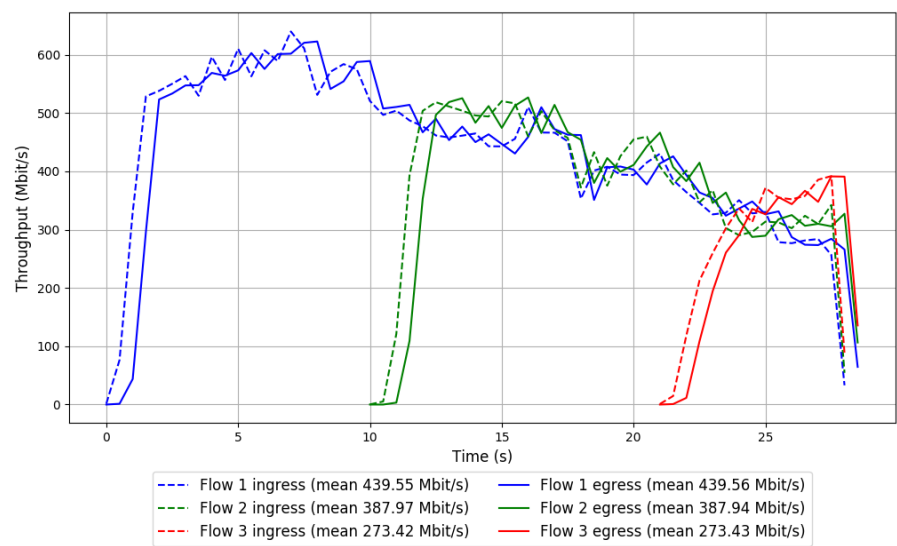


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-12-11 20:53:13  
End at: 2019-12-11 20:53:43  
Local clock offset: -0.007 ms  
Remote clock offset: -0.012 ms

# Below is generated by plot.py at 2019-12-12 01:06:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 752.99 Mbit/s  
95th percentile per-packet one-way delay: 73.060 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 439.56 Mbit/s  
95th percentile per-packet one-way delay: 75.881 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 387.94 Mbit/s  
95th percentile per-packet one-way delay: 71.868 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 273.43 Mbit/s  
95th percentile per-packet one-way delay: 62.627 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC3 — Data Link



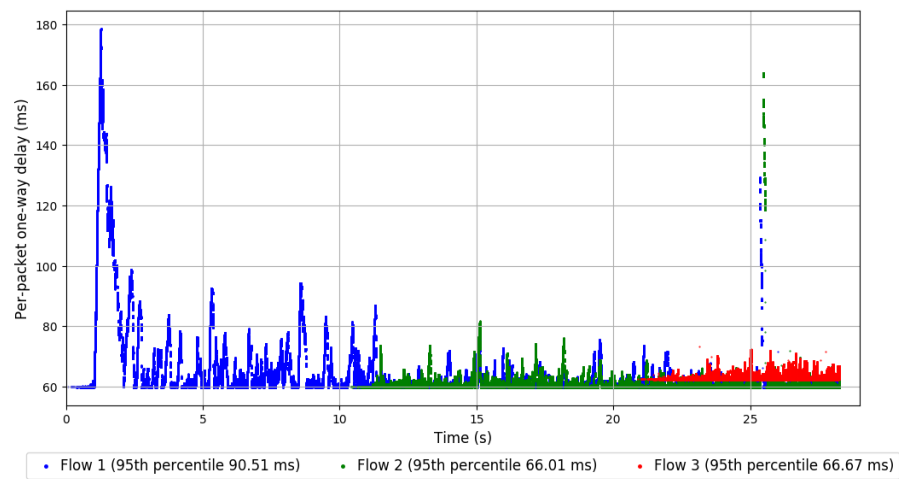
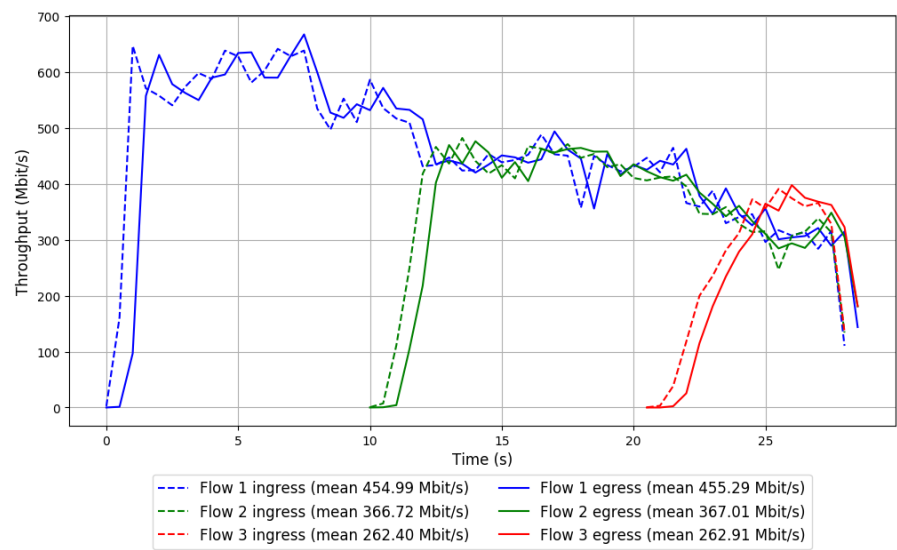


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-12-11 21:34:28  
End at: 2019-12-11 21:34:58  
Local clock offset: -0.071 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-12-12 01:15:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 757.69 Mbit/s  
95th percentile per-packet one-way delay: 79.916 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 455.29 Mbit/s  
95th percentile per-packet one-way delay: 90.506 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 367.01 Mbit/s  
95th percentile per-packet one-way delay: 66.014 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 262.91 Mbit/s  
95th percentile per-packet one-way delay: 66.675 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC3 — Data Link

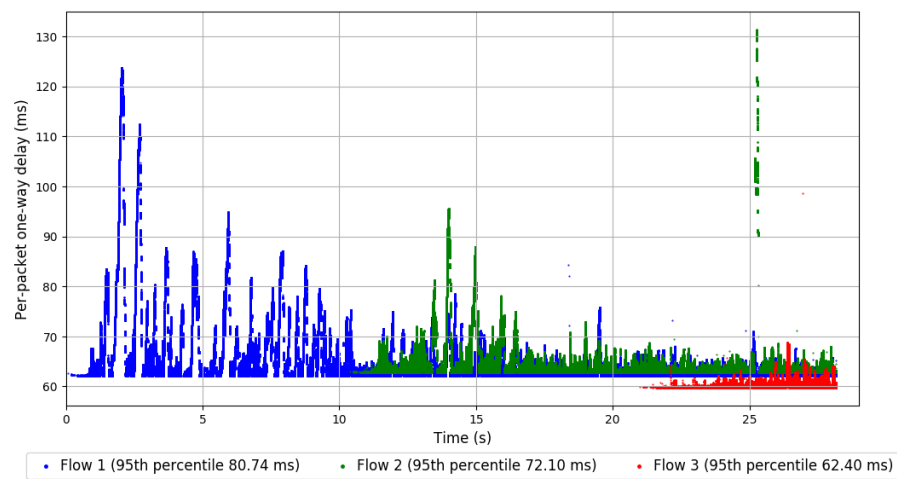
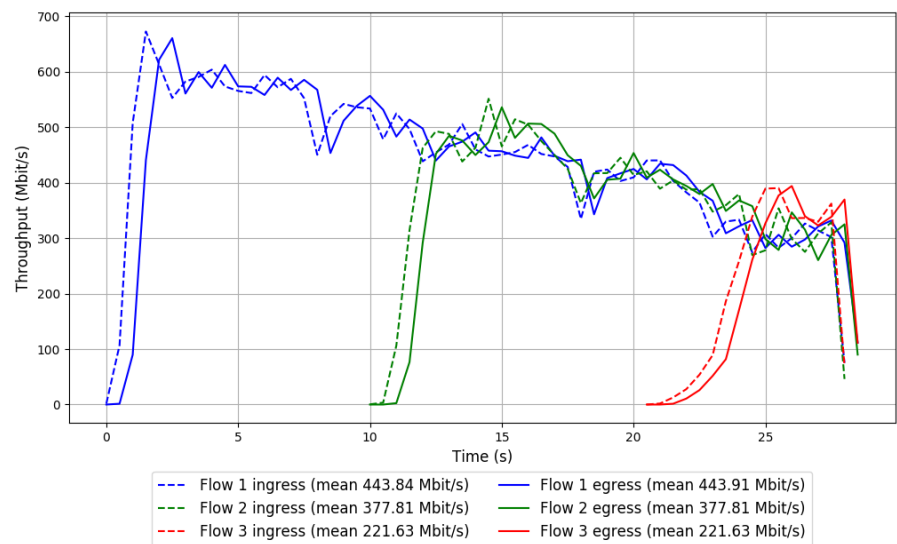


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-12-11 22:15:28  
End at: 2019-12-11 22:15:58  
Local clock offset: -0.015 ms  
Remote clock offset: -0.115 ms

# Below is generated by plot.py at 2019-12-12 01:15:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 739.54 Mbit/s  
95th percentile per-packet one-way delay: 76.882 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 443.91 Mbit/s  
95th percentile per-packet one-way delay: 80.742 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 377.81 Mbit/s  
95th percentile per-packet one-way delay: 72.102 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 221.63 Mbit/s  
95th percentile per-packet one-way delay: 62.396 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC3 — Data Link

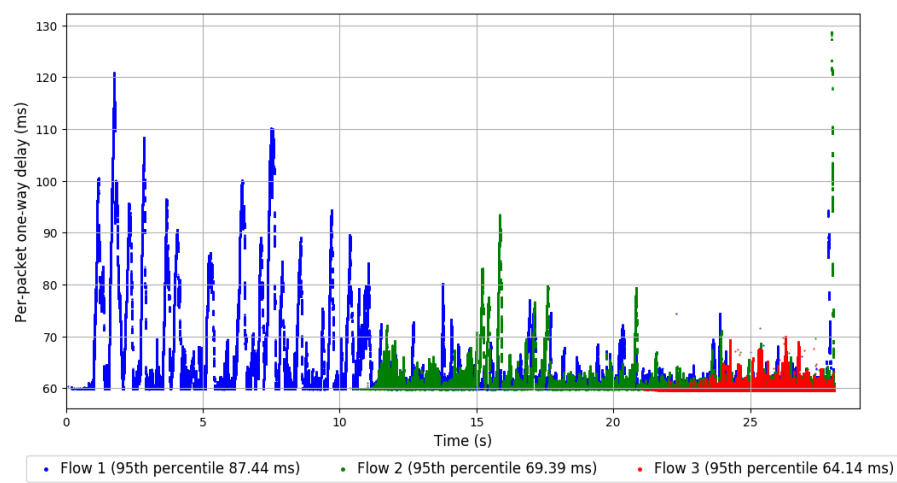
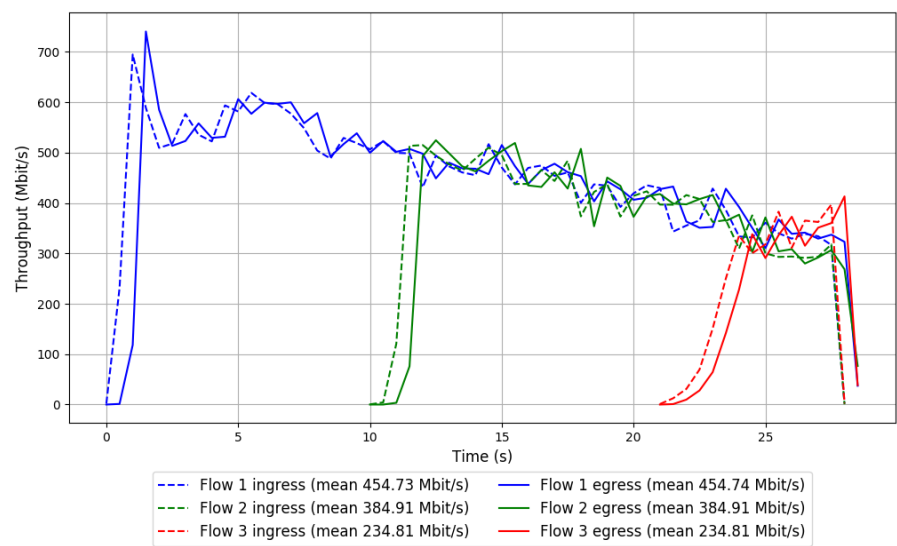


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-12-11 22:56:33  
End at: 2019-12-11 22:57:03  
Local clock offset: -0.035 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-12-12 01:16:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 756.49 Mbit/s  
95th percentile per-packet one-way delay: 82.050 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 454.74 Mbit/s  
95th percentile per-packet one-way delay: 87.440 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 384.91 Mbit/s  
95th percentile per-packet one-way delay: 69.386 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 234.81 Mbit/s  
95th percentile per-packet one-way delay: 64.135 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-12-11 20:29:11

End at: 2019-12-11 20:29:41

Local clock offset: -0.041 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-12-12 01:16:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 751.24 Mbit/s

95th percentile per-packet one-way delay: 91.108 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 483.53 Mbit/s

95th percentile per-packet one-way delay: 96.014 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 369.67 Mbit/s

95th percentile per-packet one-way delay: 79.470 ms

Loss rate: 0.00%

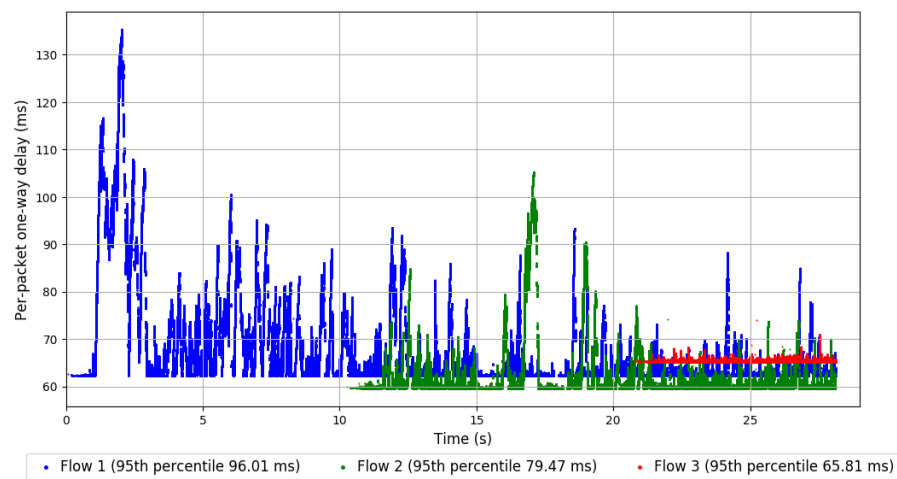
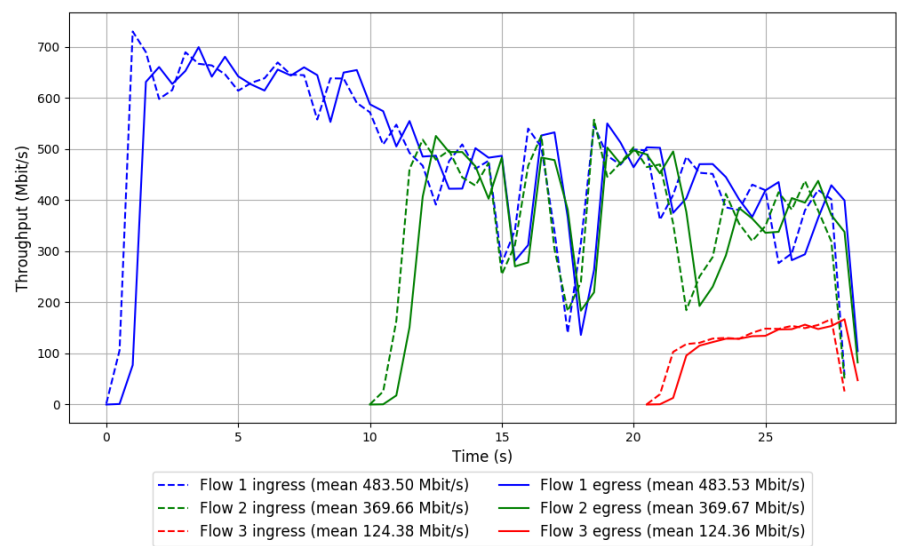
-- Flow 3:

Average throughput: 124.36 Mbit/s

95th percentile per-packet one-way delay: 65.805 ms

Loss rate: 0.05%

Run 1: Report of Indigo-MusesC5 — Data Link



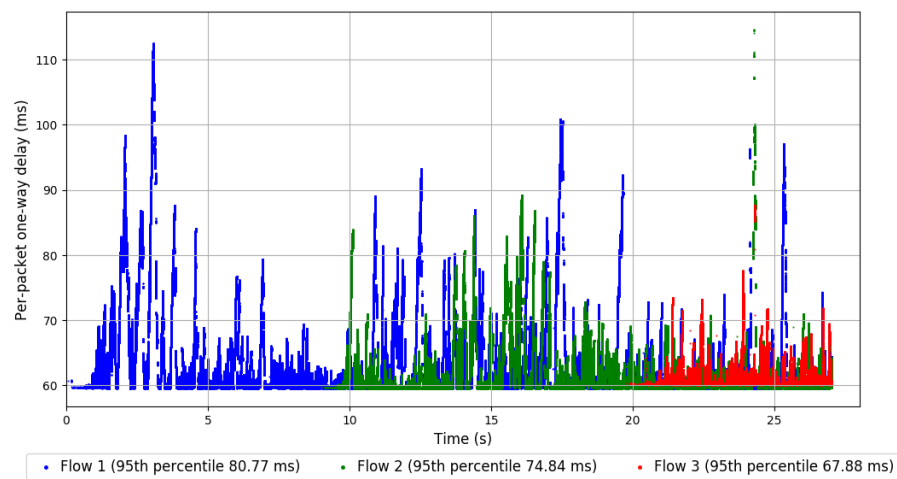
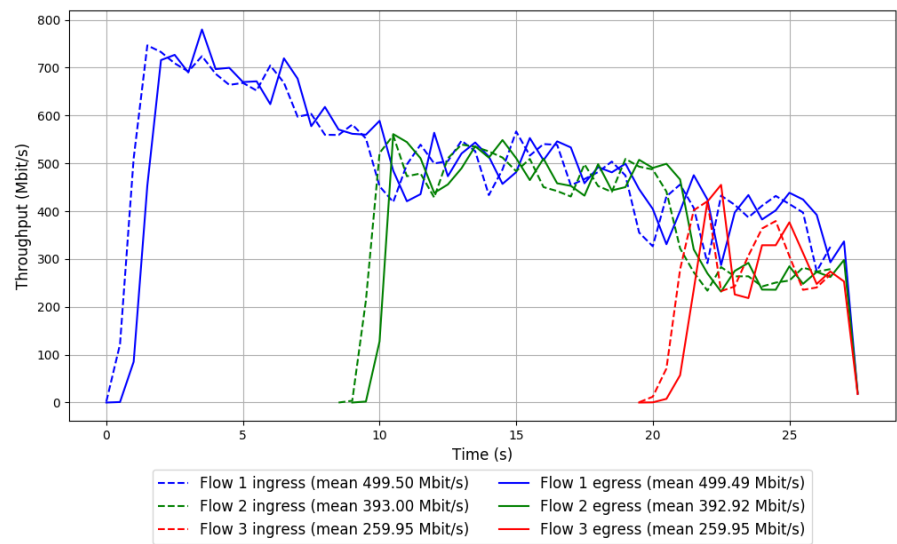


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-12-11 21:10:16  
End at: 2019-12-11 21:10:46  
Local clock offset: -0.016 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-12-12 01:17:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 831.71 Mbit/s  
95th percentile per-packet one-way delay: 78.363 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 499.49 Mbit/s  
95th percentile per-packet one-way delay: 80.772 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 392.92 Mbit/s  
95th percentile per-packet one-way delay: 74.836 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 259.95 Mbit/s  
95th percentile per-packet one-way delay: 67.878 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesC5 — Data Link

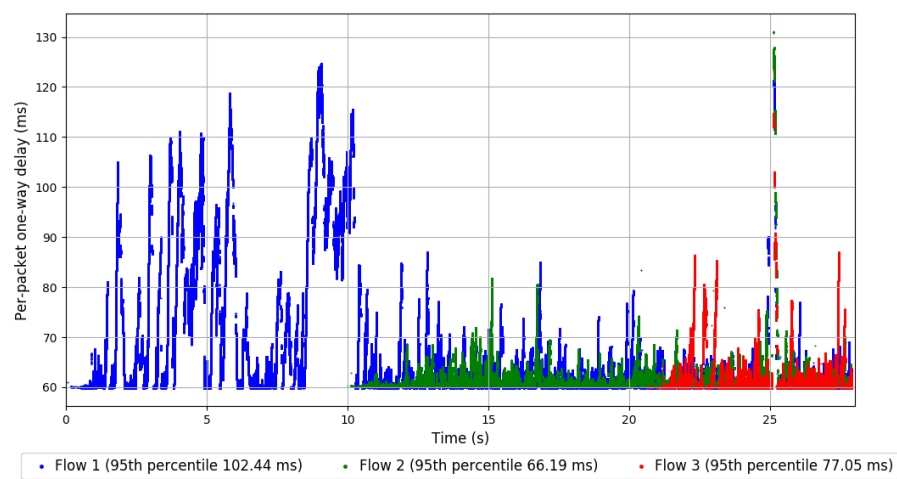
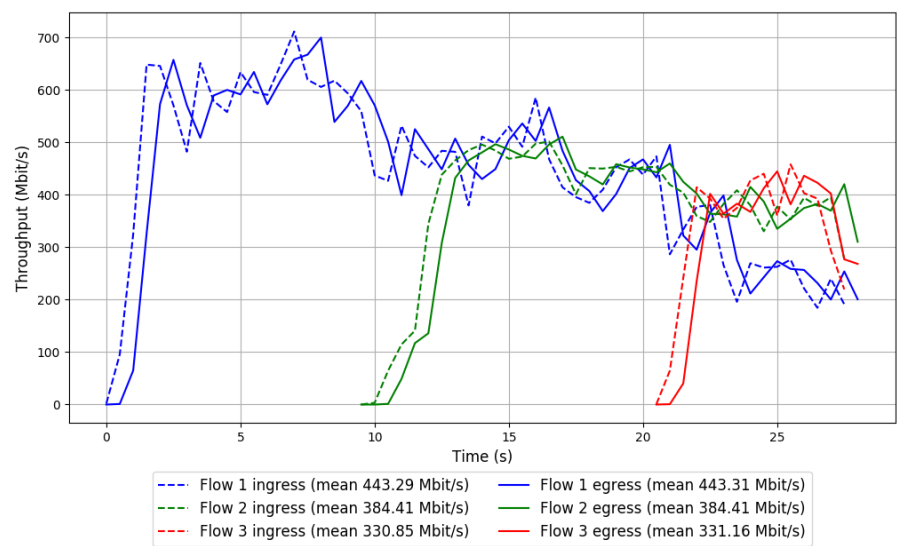


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-12-11 21:51:20  
End at: 2019-12-11 21:51:50  
Local clock offset: -0.088 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-12-12 01:19:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 777.30 Mbit/s  
95th percentile per-packet one-way delay: 95.958 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 443.31 Mbit/s  
95th percentile per-packet one-way delay: 102.442 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 384.41 Mbit/s  
95th percentile per-packet one-way delay: 66.186 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 331.16 Mbit/s  
95th percentile per-packet one-way delay: 77.045 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesC5 — Data Link

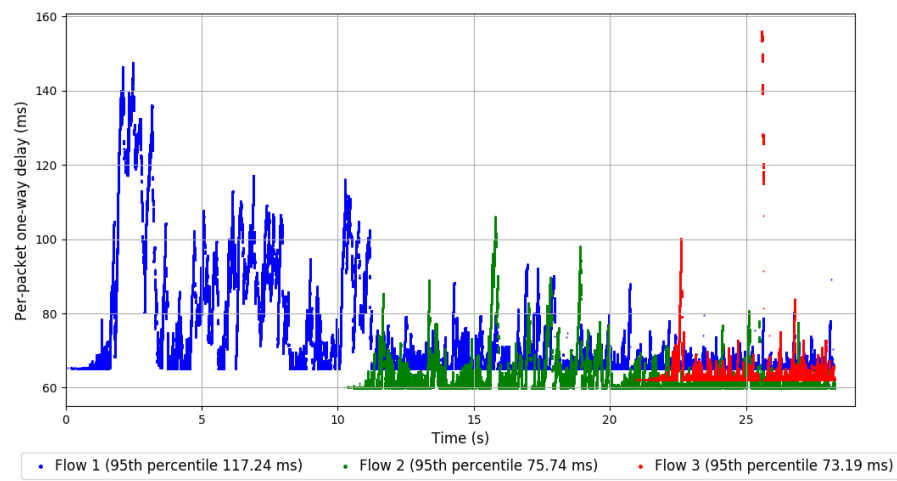
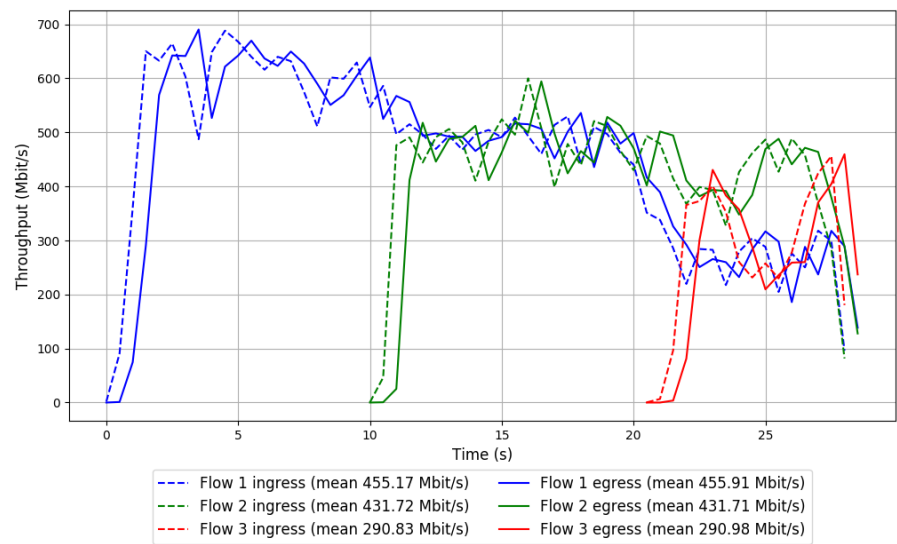


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-12-11 22:32:30  
End at: 2019-12-11 22:33:00  
Local clock offset: 0.02 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-12-12 01:20:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 807.10 Mbit/s  
95th percentile per-packet one-way delay: 103.679 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 455.91 Mbit/s  
95th percentile per-packet one-way delay: 117.239 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 431.71 Mbit/s  
95th percentile per-packet one-way delay: 75.744 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 290.98 Mbit/s  
95th percentile per-packet one-way delay: 73.194 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesC5 — Data Link

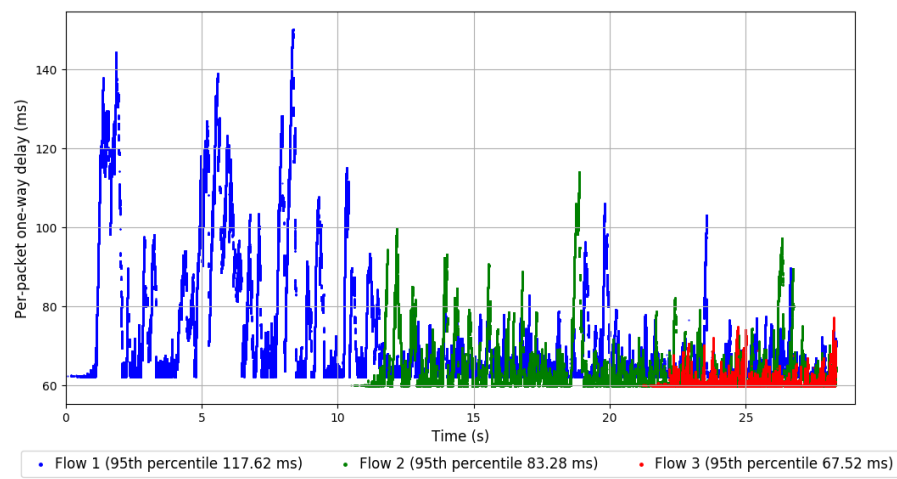
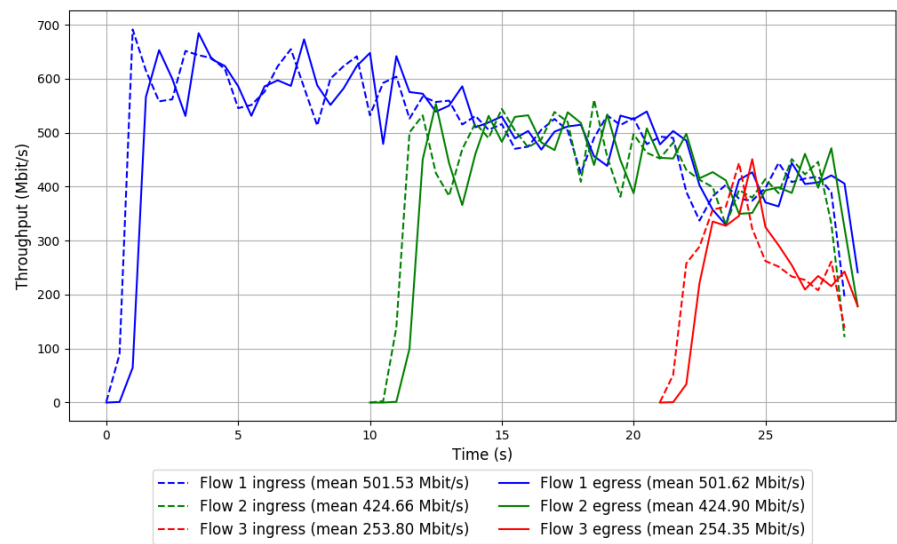


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-12-11 23:13:38  
End at: 2019-12-11 23:14:08  
Local clock offset: -0.042 ms  
Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-12-12 01:22:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 834.52 Mbit/s  
95th percentile per-packet one-way delay: 105.478 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 501.62 Mbit/s  
95th percentile per-packet one-way delay: 117.625 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 424.90 Mbit/s  
95th percentile per-packet one-way delay: 83.284 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 254.35 Mbit/s  
95th percentile per-packet one-way delay: 67.519 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesC5 — Data Link



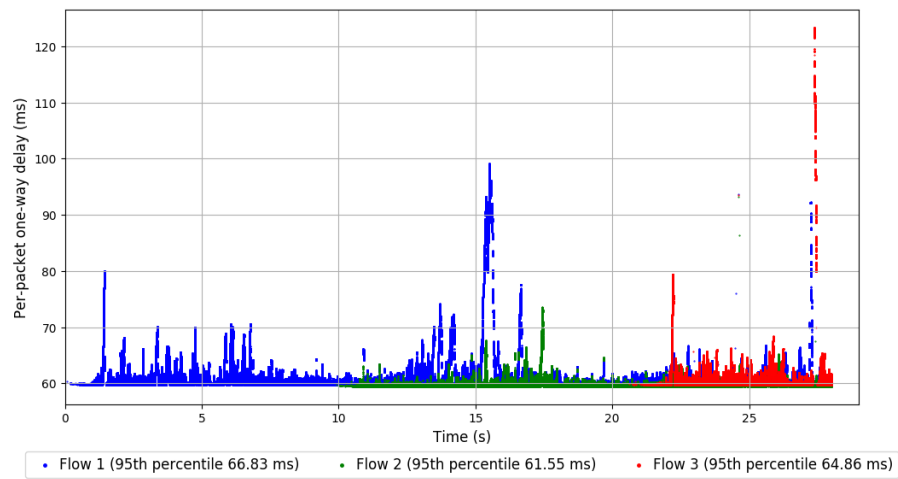
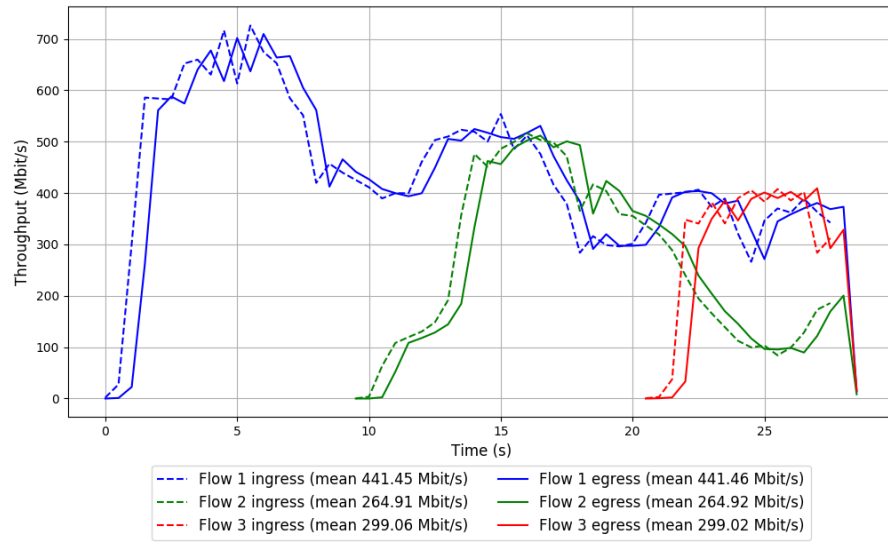


Run 1: Statistics of Indigo-MusesD

Start at: 2019-12-11 20:42:01  
End at: 2019-12-11 20:42:31  
Local clock offset: -0.025 ms  
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-12-12 01:28:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 692.08 Mbit/s  
95th percentile per-packet one-way delay: 65.441 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 441.46 Mbit/s  
95th percentile per-packet one-way delay: 66.827 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 264.92 Mbit/s  
95th percentile per-packet one-way delay: 61.554 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 299.02 Mbit/s  
95th percentile per-packet one-way delay: 64.865 ms  
Loss rate: 0.00%

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

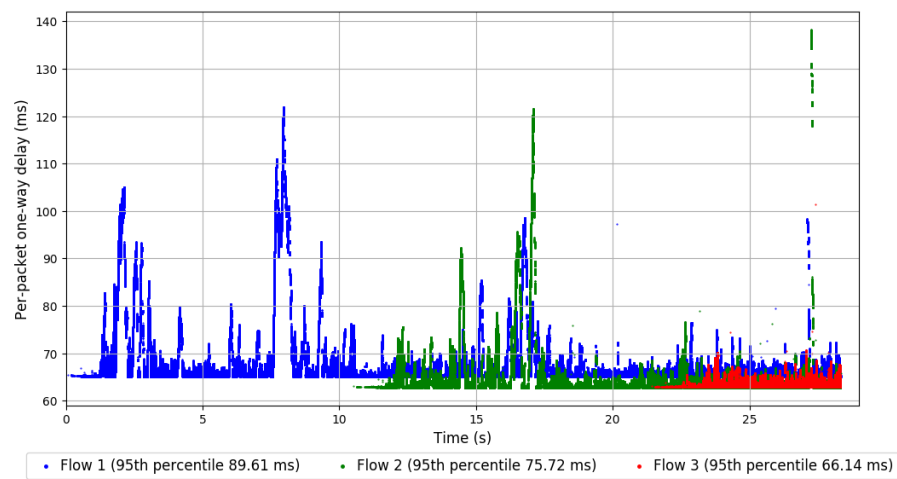
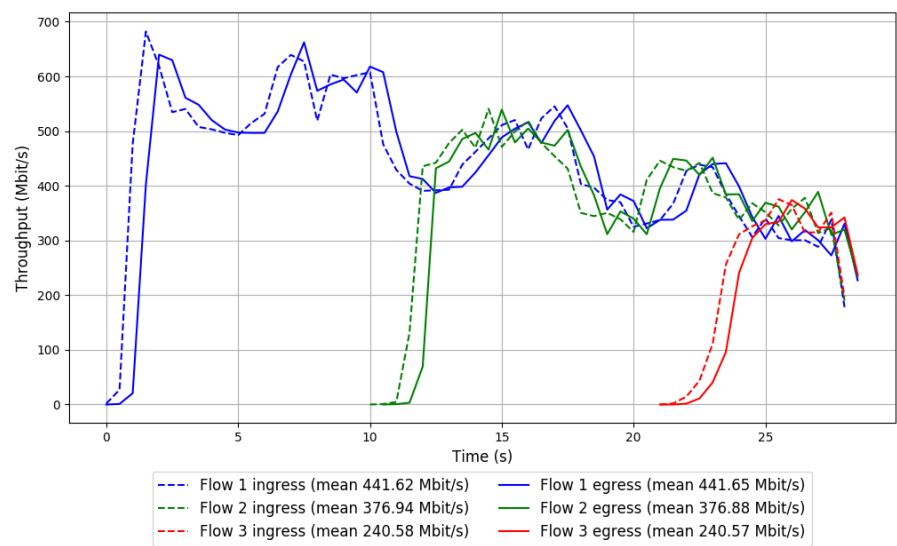


Run 2: Statistics of Indigo-MusesD

Start at: 2019-12-11 21:23:08  
End at: 2019-12-11 21:23:38  
Local clock offset: -0.025 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-12-12 01:30:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 737.79 Mbit/s  
95th percentile per-packet one-way delay: 84.543 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 441.65 Mbit/s  
95th percentile per-packet one-way delay: 89.615 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 376.88 Mbit/s  
95th percentile per-packet one-way delay: 75.718 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 240.57 Mbit/s  
95th percentile per-packet one-way delay: 66.140 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesD — Data Link

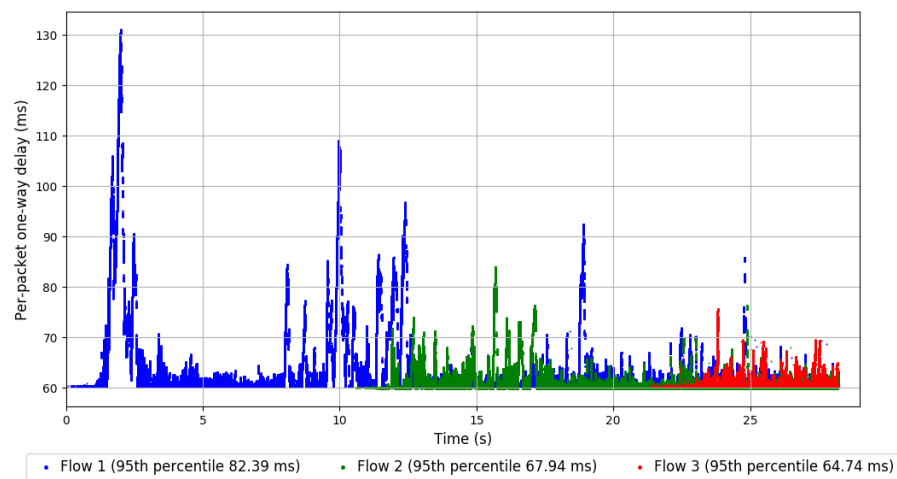
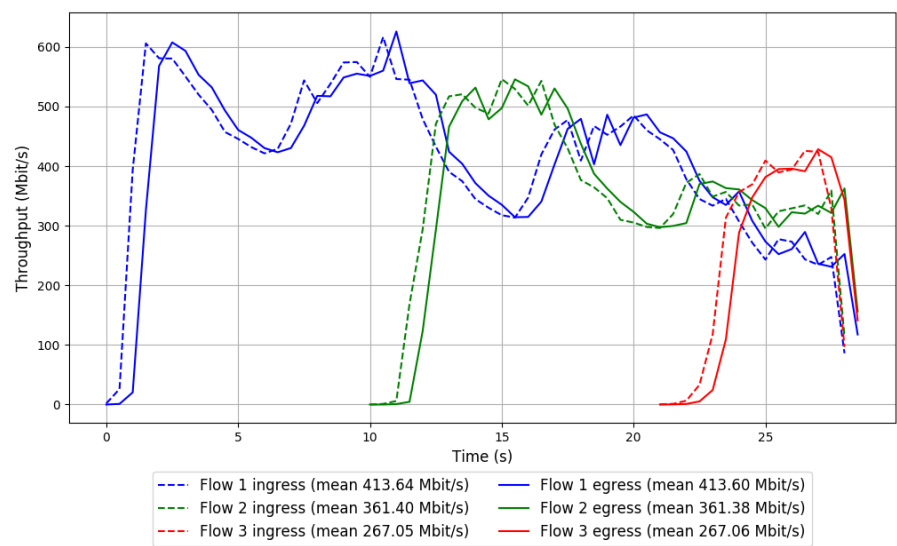


Run 3: Statistics of Indigo-MusesD

Start at: 2019-12-11 22:04:13  
End at: 2019-12-11 22:04:43  
Local clock offset: -0.085 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-12-12 01:30:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 706.17 Mbit/s  
95th percentile per-packet one-way delay: 76.766 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 413.60 Mbit/s  
95th percentile per-packet one-way delay: 82.394 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 361.38 Mbit/s  
95th percentile per-packet one-way delay: 67.942 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 267.06 Mbit/s  
95th percentile per-packet one-way delay: 64.737 ms  
Loss rate: 0.00%

Run 3: Report of Indigo-MusesD — Data Link

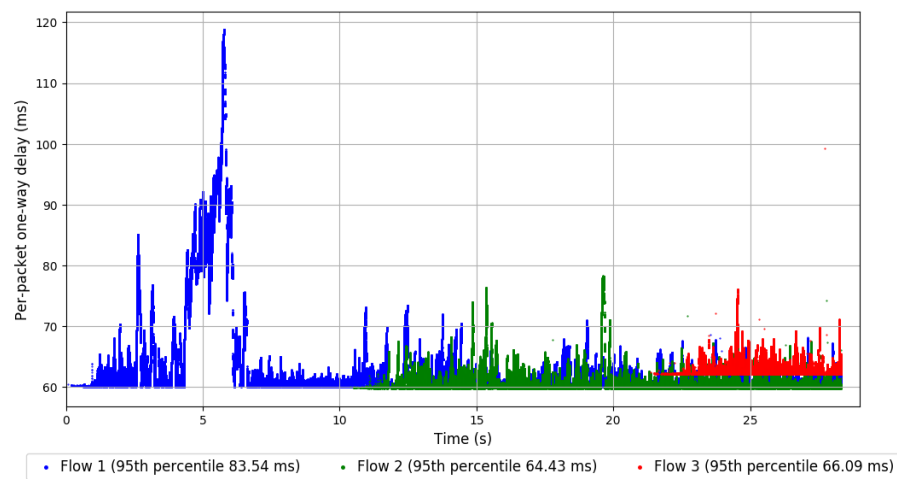
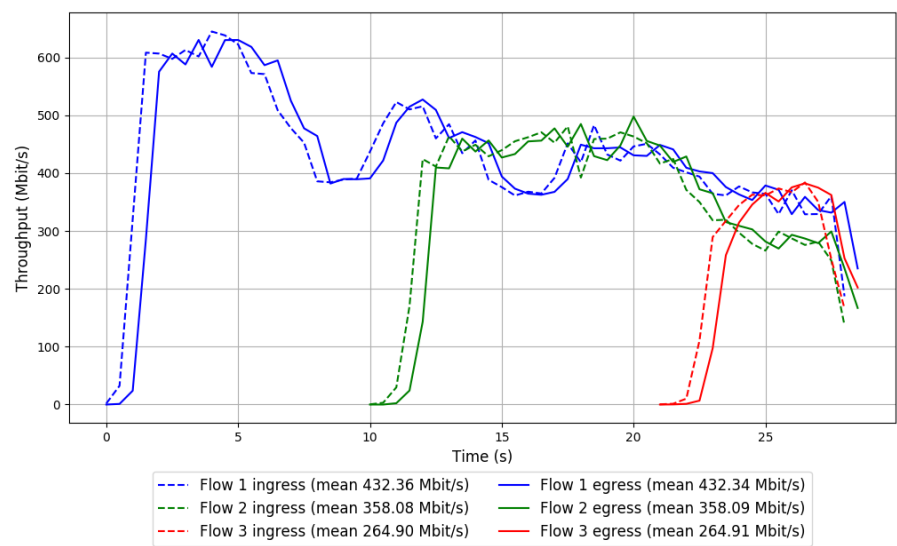


Run 4: Statistics of Indigo-MusesD

Start at: 2019-12-11 22:45:06  
End at: 2019-12-11 22:45:36  
Local clock offset: 0.007 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-12-12 01:30:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 724.66 Mbit/s  
95th percentile per-packet one-way delay: 76.471 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 432.34 Mbit/s  
95th percentile per-packet one-way delay: 83.539 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 358.09 Mbit/s  
95th percentile per-packet one-way delay: 64.427 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 264.91 Mbit/s  
95th percentile per-packet one-way delay: 66.093 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesD — Data Link



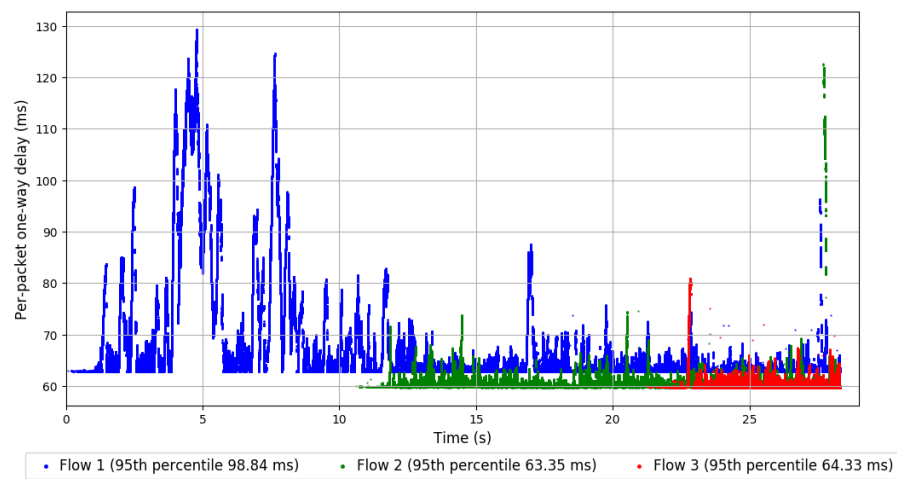
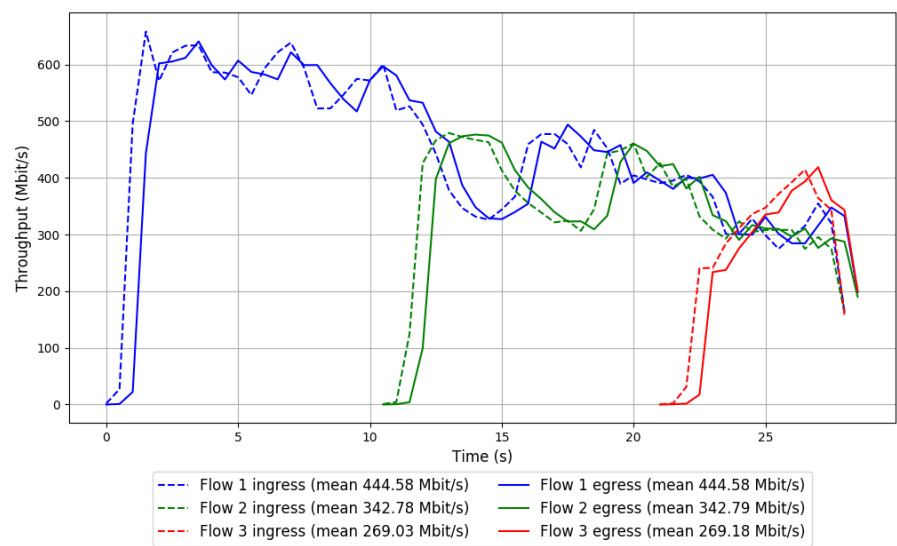


Run 5: Statistics of Indigo-MusesD

Start at: 2019-12-11 23:26:39  
End at: 2019-12-11 23:27:09  
Local clock offset: -0.053 ms  
Remote clock offset: -0.168 ms

# Below is generated by plot.py at 2019-12-12 01:32:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 727.32 Mbit/s  
95th percentile per-packet one-way delay: 91.548 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 444.58 Mbit/s  
95th percentile per-packet one-way delay: 98.838 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 342.79 Mbit/s  
95th percentile per-packet one-way delay: 63.346 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 269.18 Mbit/s  
95th percentile per-packet one-way delay: 64.329 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-12-11 20:05:23

End at: 2019-12-11 20:05:53

Local clock offset: -0.098 ms

Remote clock offset: 0.006 ms

Run 1: Report of Indigo-MusesT — Data Link

Figure is missing

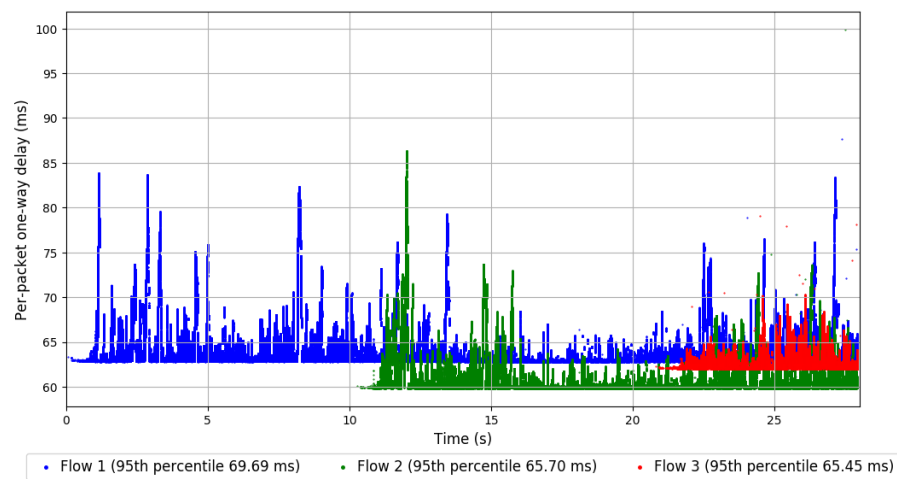
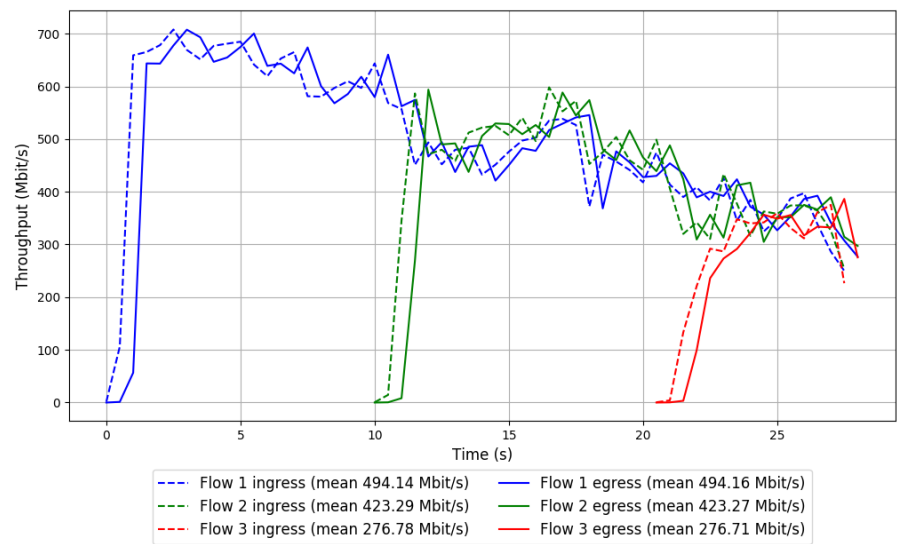
Figure is missing

Run 2: Statistics of Indigo-MusesT

Start at: 2019-12-11 20:45:41  
End at: 2019-12-11 20:46:11  
Local clock offset: 0.003 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-12-12 01:35:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 832.79 Mbit/s  
95th percentile per-packet one-way delay: 68.041 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 494.16 Mbit/s  
95th percentile per-packet one-way delay: 69.692 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 423.27 Mbit/s  
95th percentile per-packet one-way delay: 65.705 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 276.71 Mbit/s  
95th percentile per-packet one-way delay: 65.453 ms  
Loss rate: 0.00%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-12-11 21:26:51

End at: 2019-12-11 21:27:21

Local clock offset: -0.016 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-12-12 01:35:55

# Datalink statistics

-- Total of 3 flows:

Average throughput: 793.52 Mbit/s

95th percentile per-packet one-way delay: 90.093 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 472.45 Mbit/s

95th percentile per-packet one-way delay: 95.456 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 395.99 Mbit/s

95th percentile per-packet one-way delay: 71.067 ms

Loss rate: 0.00%

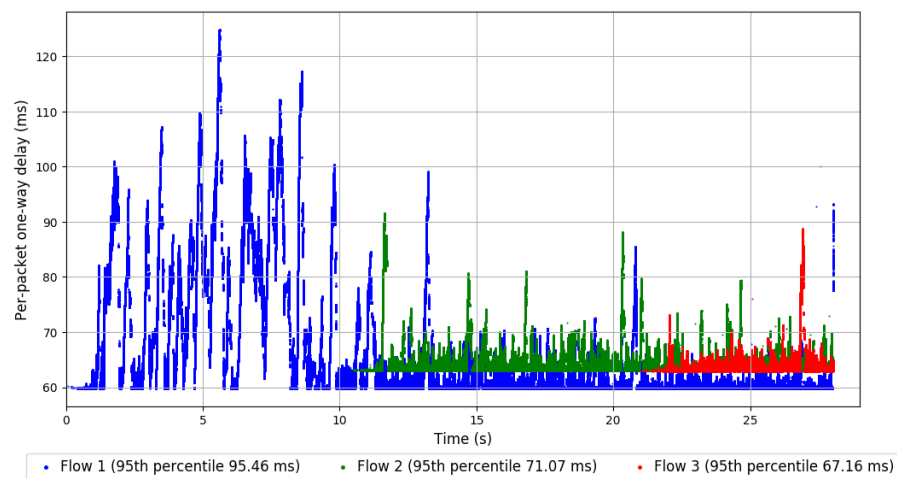
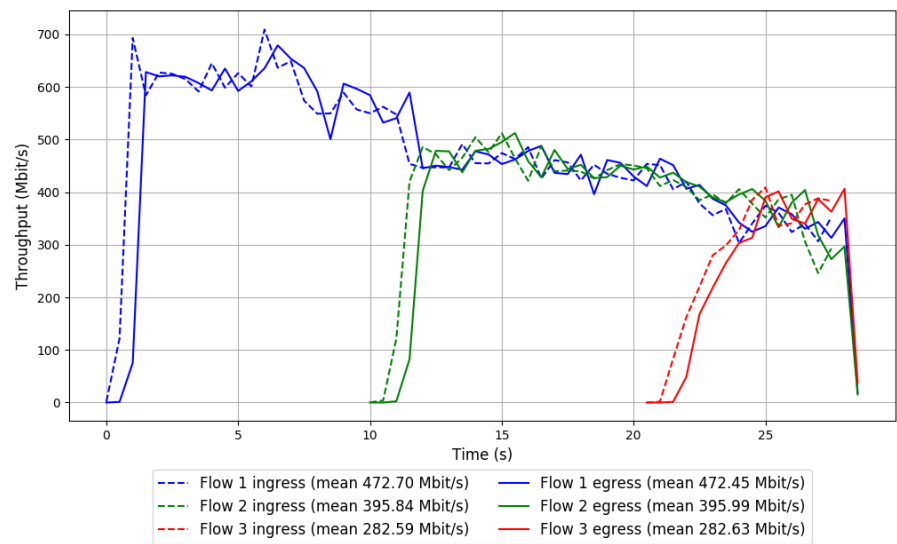
-- Flow 3:

Average throughput: 282.63 Mbit/s

95th percentile per-packet one-way delay: 67.155 ms

Loss rate: 0.00%

Run 3: Report of Indigo-MusesT — Data Link



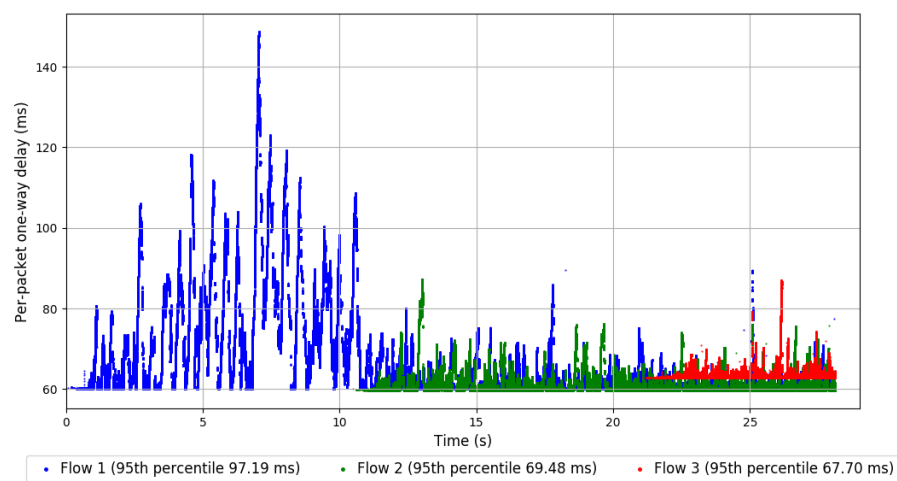
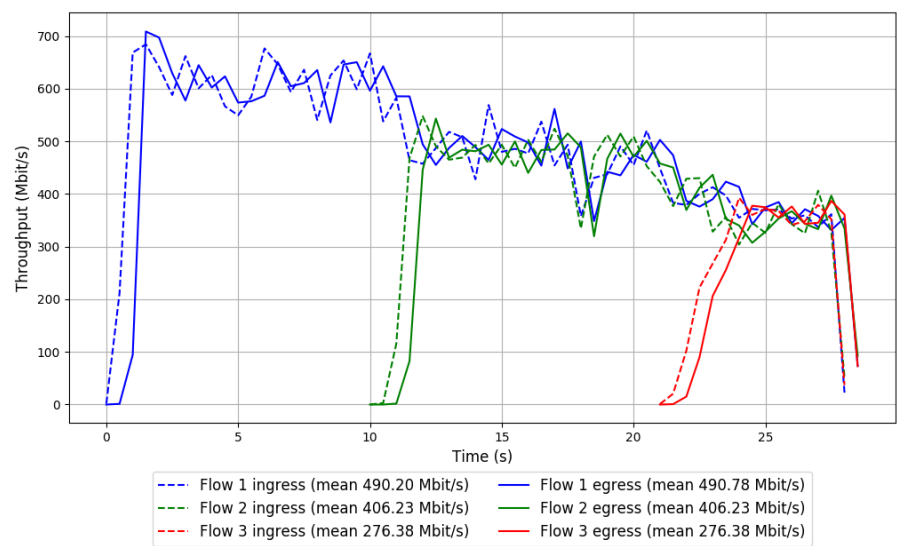


Run 4: Statistics of Indigo-MusesT

Start at: 2019-12-11 22:07:54  
End at: 2019-12-11 22:08:24  
Local clock offset: -0.049 ms  
Remote clock offset: -0.154 ms

# Below is generated by plot.py at 2019-12-12 01:39:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 814.50 Mbit/s  
95th percentile per-packet one-way delay: 89.082 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 490.78 Mbit/s  
95th percentile per-packet one-way delay: 97.188 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 406.23 Mbit/s  
95th percentile per-packet one-way delay: 69.482 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 276.38 Mbit/s  
95th percentile per-packet one-way delay: 67.703 ms  
Loss rate: 0.00%

Run 4: Report of Indigo-MusesT — Data Link

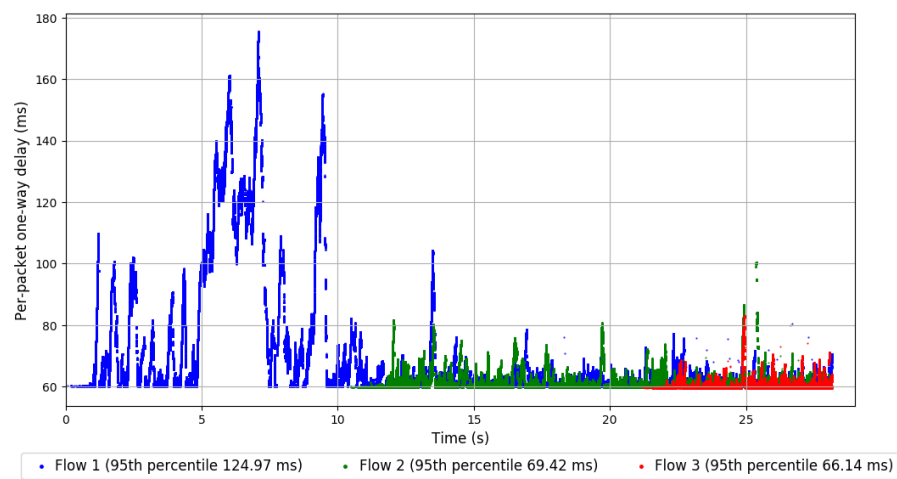
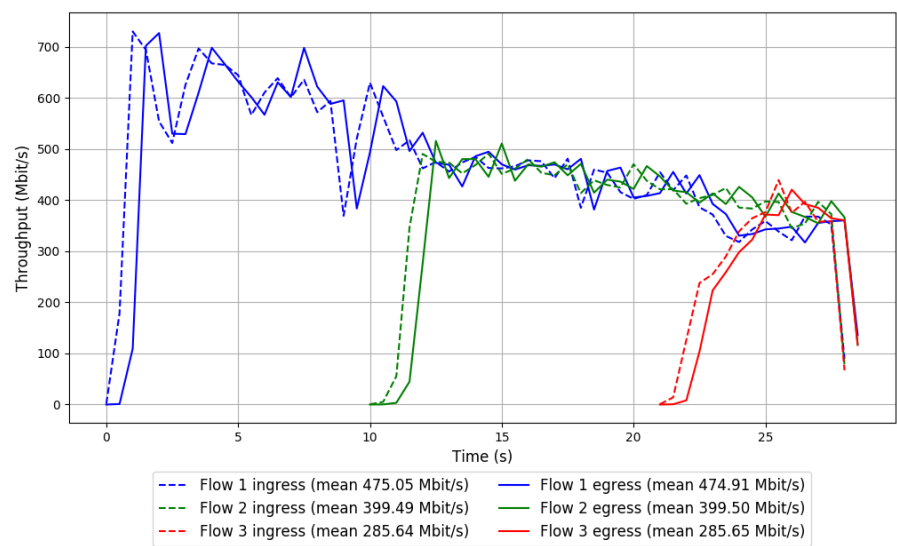


Run 5: Statistics of Indigo-MusesT

Start at: 2019-12-11 22:48:50  
End at: 2019-12-11 22:49:20  
Local clock offset: -0.008 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-12-12 01:44:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 799.05 Mbit/s  
95th percentile per-packet one-way delay: 112.239 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 474.91 Mbit/s  
95th percentile per-packet one-way delay: 124.968 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 399.50 Mbit/s  
95th percentile per-packet one-way delay: 69.424 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 285.65 Mbit/s  
95th percentile per-packet one-way delay: 66.139 ms  
Loss rate: 0.00%

Run 5: Report of Indigo-MusesT — Data Link

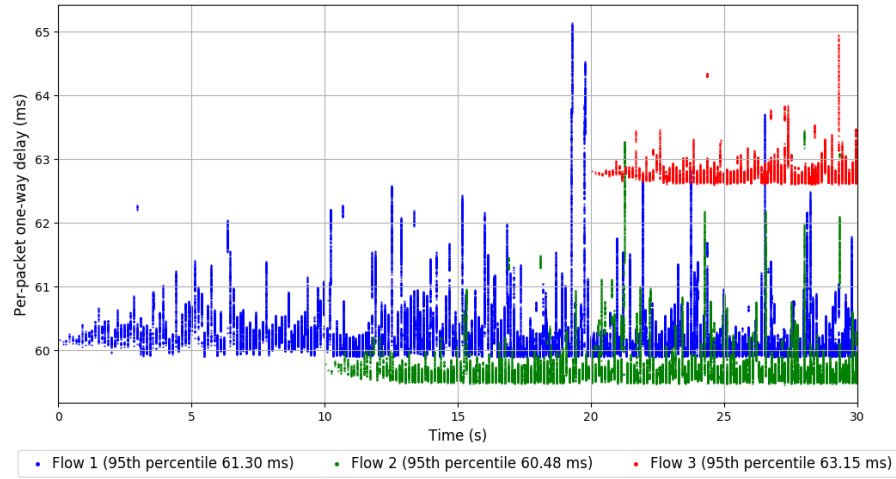
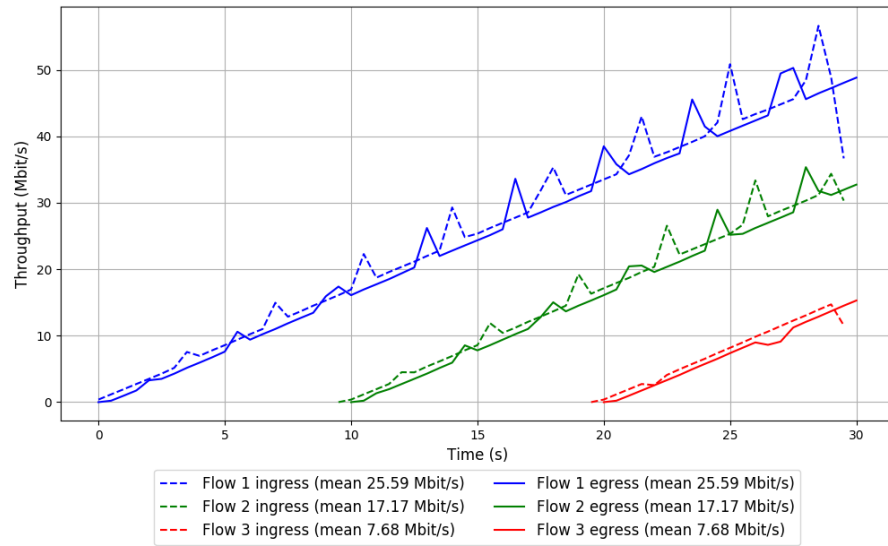


```
Run 1: Statistics of LEDBAT

Start at: 2019-12-11 20:32:49
End at: 2019-12-11 20:33:19
Local clock offset: 0.01 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-12-12 01:44:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.56 Mbit/s
95th percentile per-packet one-way delay: 62.698 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 25.59 Mbit/s
95th percentile per-packet one-way delay: 61.300 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.17 Mbit/s
95th percentile per-packet one-way delay: 60.477 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.68 Mbit/s
95th percentile per-packet one-way delay: 63.151 ms
Loss rate: 0.00%
```

# Run 1: Report of LEDBAT — Data Link

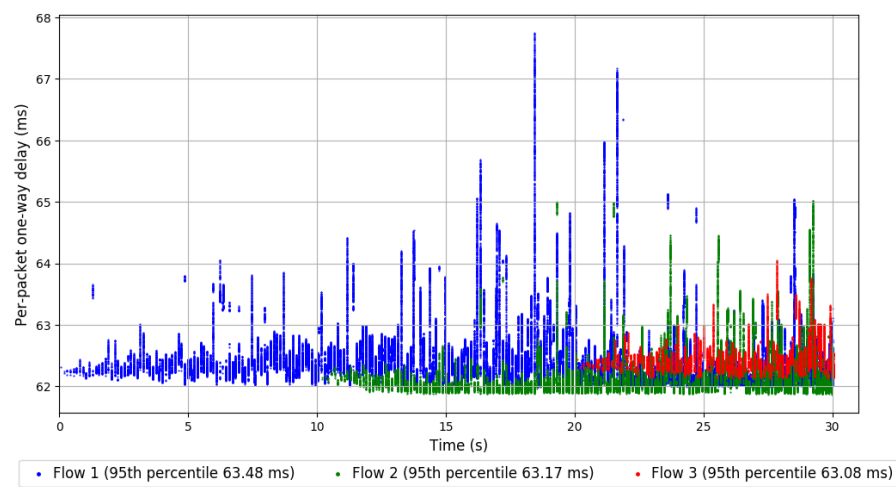
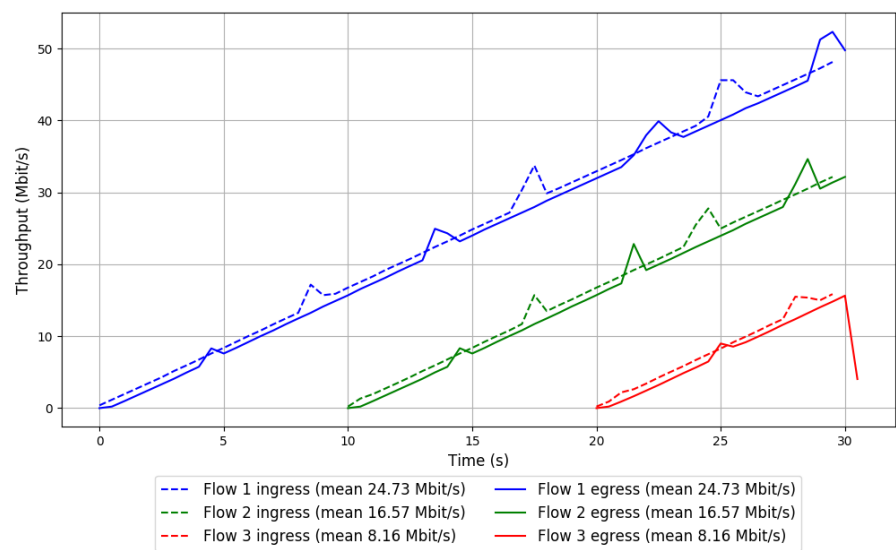


Run 2: Statistics of LEDBAT

Start at: 2019-12-11 21:13:55  
End at: 2019-12-11 21:14:25  
Local clock offset: -0.063 ms  
Remote clock offset: -0.175 ms

# Below is generated by plot.py at 2019-12-12 01:44:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.40 Mbit/s  
95th percentile per-packet one-way delay: 63.342 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 24.73 Mbit/s  
95th percentile per-packet one-way delay: 63.477 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 16.57 Mbit/s  
95th percentile per-packet one-way delay: 63.169 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 63.077 ms  
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link



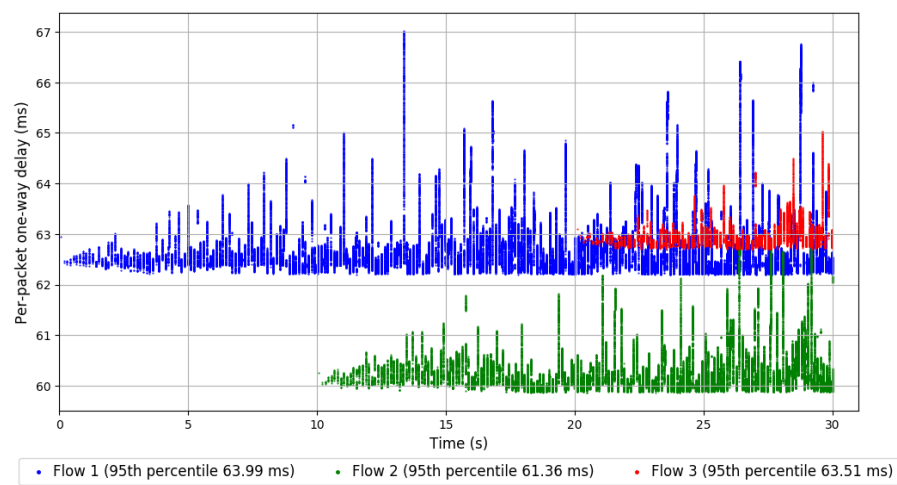
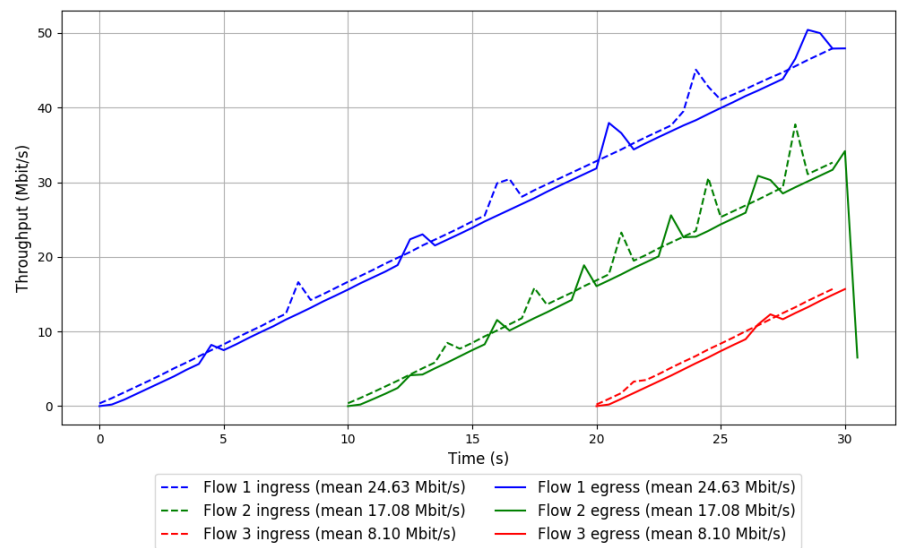


Run 3: Statistics of LEDBAT

Start at: 2019-12-11 21:54:58  
End at: 2019-12-11 21:55:28  
Local clock offset: -0.086 ms  
Remote clock offset: 0.041 ms

```
# Below is generated by plot.py at 2019-12-12 01:44:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.65 Mbit/s
95th percentile per-packet one-way delay: 63.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.63 Mbit/s
95th percentile per-packet one-way delay: 63.993 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 17.08 Mbit/s
95th percentile per-packet one-way delay: 61.358 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.10 Mbit/s
95th percentile per-packet one-way delay: 63.514 ms
Loss rate: 0.00%
```

Run 3: Report of LEDBAT — Data Link

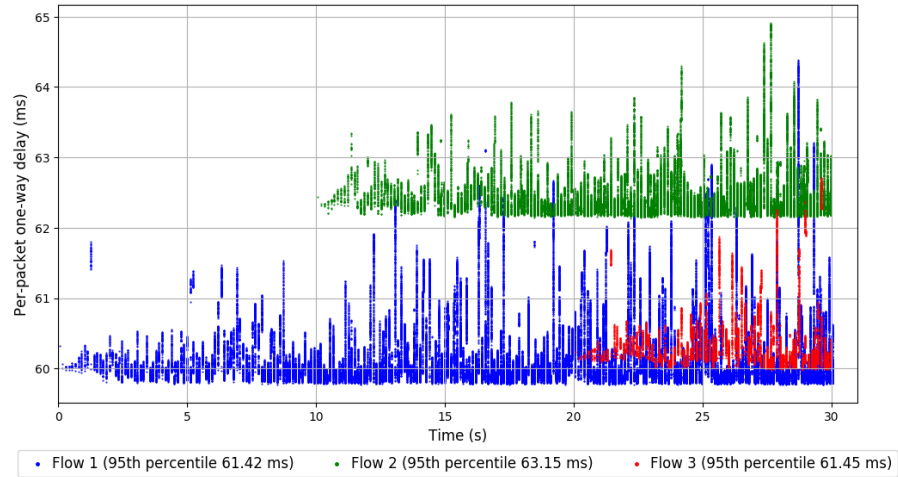
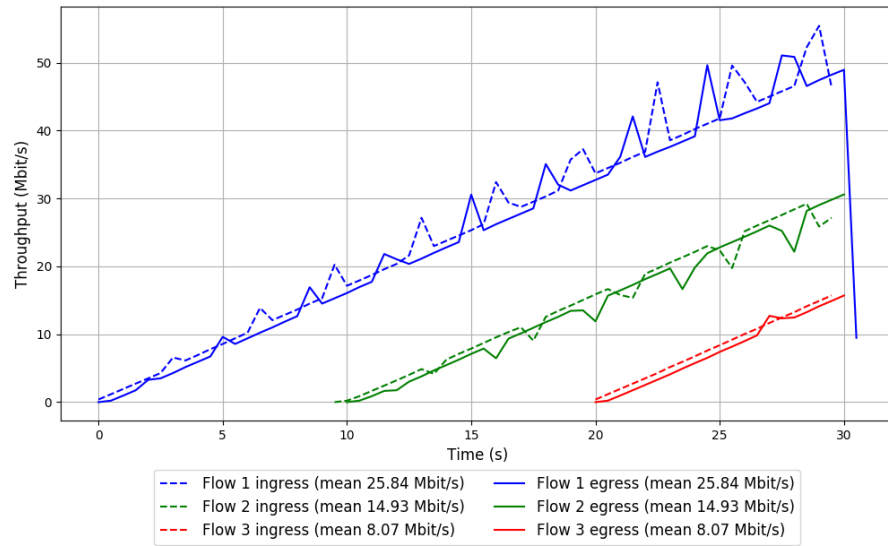


Run 4: Statistics of LEDBAT

Start at: 2019-12-11 22:36:10  
End at: 2019-12-11 22:36:40  
Local clock offset: 0.027 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-12-12 01:44:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.42 Mbit/s  
95th percentile per-packet one-way delay: 62.664 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 25.84 Mbit/s  
95th percentile per-packet one-way delay: 61.420 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 14.93 Mbit/s  
95th percentile per-packet one-way delay: 63.151 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.07 Mbit/s  
95th percentile per-packet one-way delay: 61.455 ms  
Loss rate: 0.00%

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

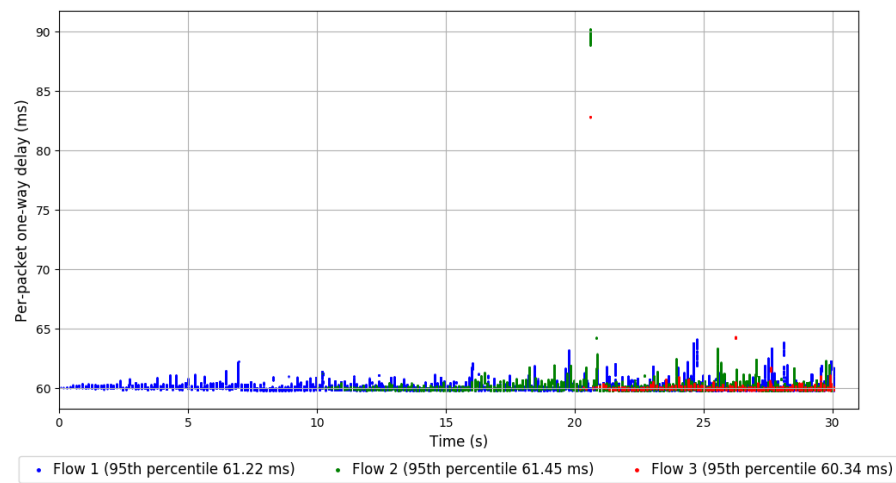
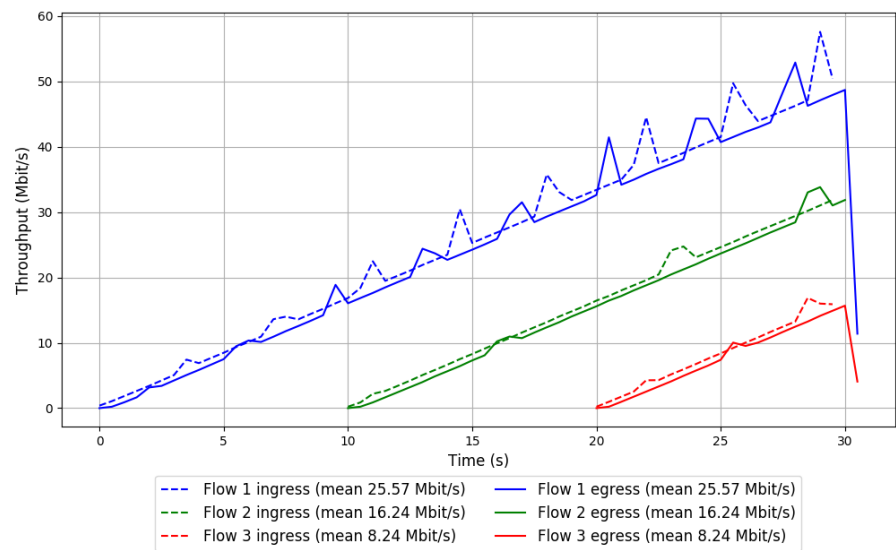


Run 5: Statistics of LEDBAT

Start at: 2019-12-11 23:17:21  
End at: 2019-12-11 23:17:51  
Local clock offset: -0.006 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-12-12 01:44:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.09 Mbit/s  
95th percentile per-packet one-way delay: 61.226 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 25.57 Mbit/s  
95th percentile per-packet one-way delay: 61.220 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 16.24 Mbit/s  
95th percentile per-packet one-way delay: 61.452 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 8.24 Mbit/s  
95th percentile per-packet one-way delay: 60.341 ms  
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link

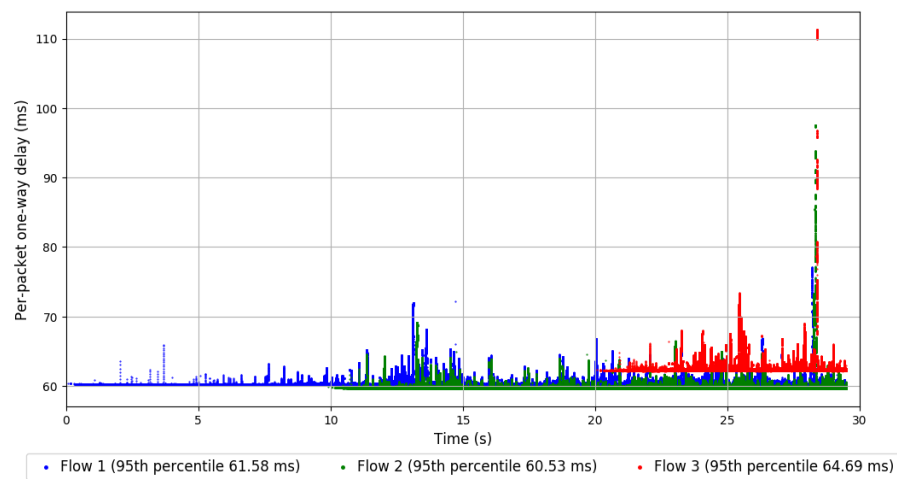
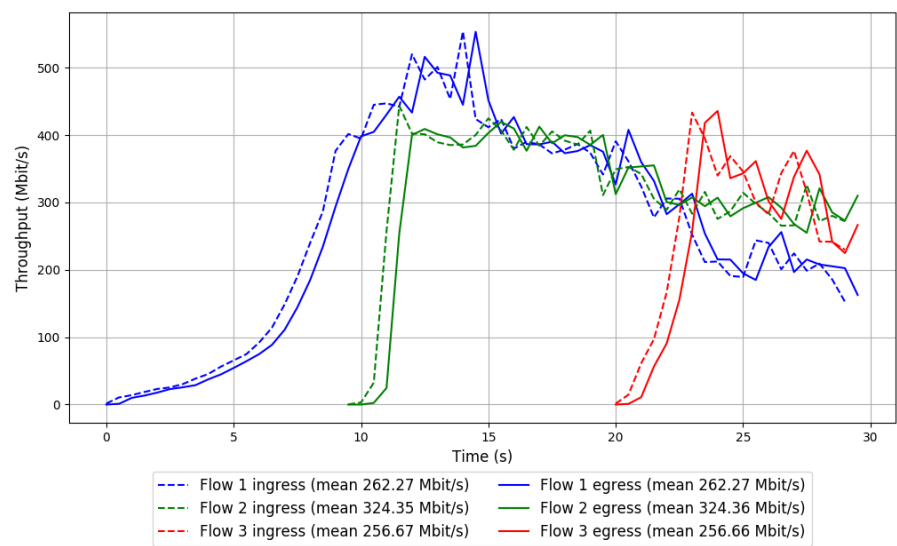


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-12-11 20:38:35
End at: 2019-12-11 20:39:05
Local clock offset: -0.009 ms
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-12-12 01:44:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 560.19 Mbit/s
95th percentile per-packet one-way delay: 62.531 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 262.27 Mbit/s
95th percentile per-packet one-way delay: 61.578 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 324.36 Mbit/s
95th percentile per-packet one-way delay: 60.529 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 256.66 Mbit/s
95th percentile per-packet one-way delay: 64.688 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTree — Data Link



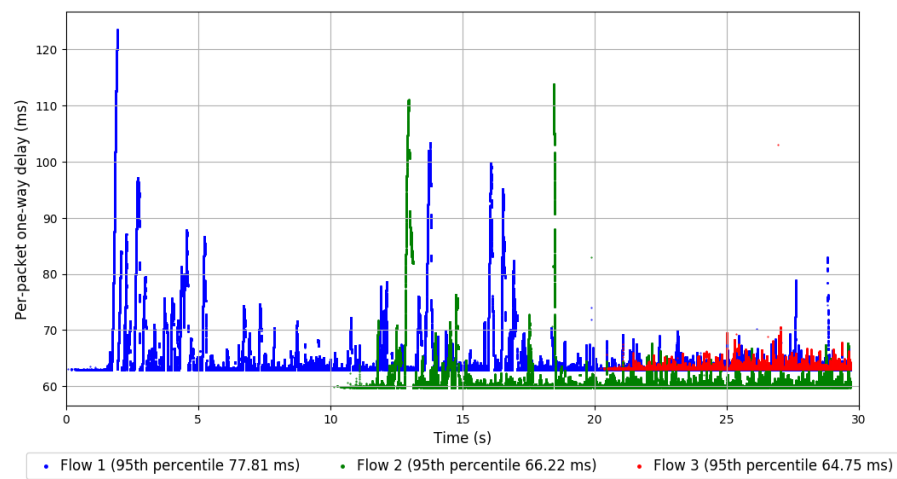
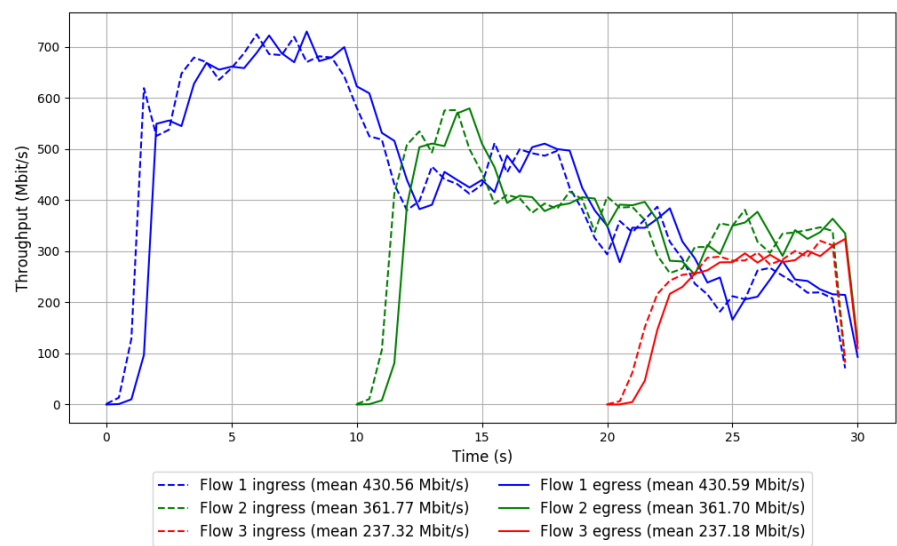


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 21:19:32  
End at: 2019-12-11 21:20:02  
Local clock offset: -0.069 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-12-12 01:47:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 744.97 Mbit/s  
95th percentile per-packet one-way delay: 73.879 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 430.59 Mbit/s  
95th percentile per-packet one-way delay: 77.806 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 361.70 Mbit/s  
95th percentile per-packet one-way delay: 66.221 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 237.18 Mbit/s  
95th percentile per-packet one-way delay: 64.753 ms  
Loss rate: 0.11%

Run 2: Report of Muses\_DecisionTree — Data Link

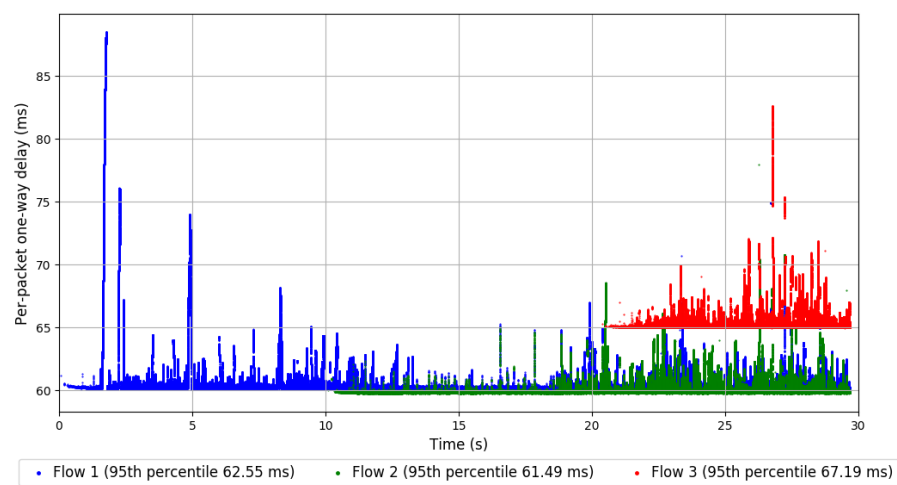
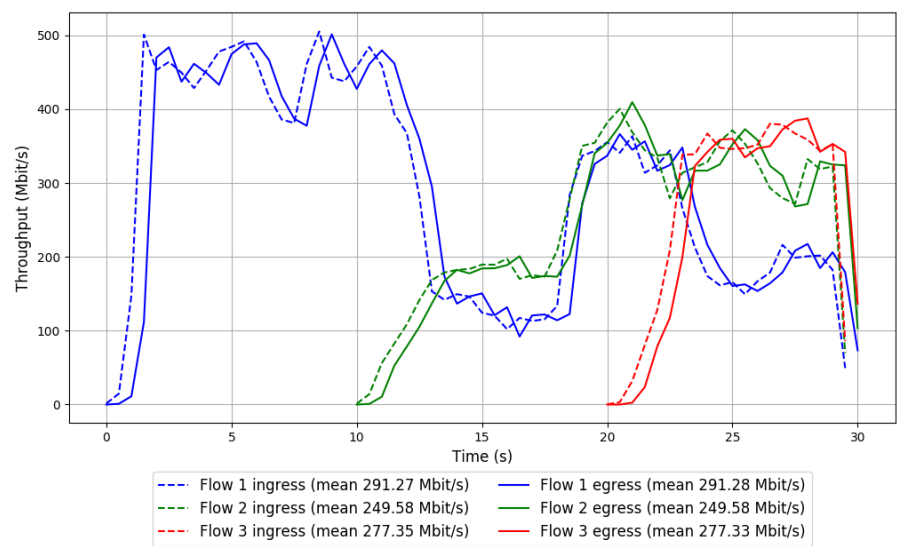


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 22:00:46  
End at: 2019-12-11 22:01:16  
Local clock offset: -0.071 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-12-12 01:47:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 543.25 Mbit/s  
95th percentile per-packet one-way delay: 65.430 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 291.28 Mbit/s  
95th percentile per-packet one-way delay: 62.555 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 249.58 Mbit/s  
95th percentile per-packet one-way delay: 61.487 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 277.33 Mbit/s  
95th percentile per-packet one-way delay: 67.185 ms  
Loss rate: 0.03%

Run 3: Report of Muses\_DecisionTree — Data Link

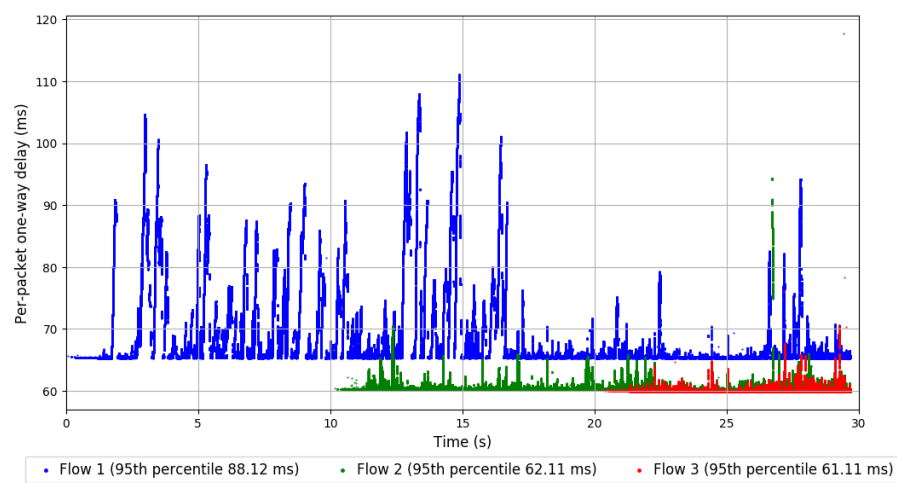
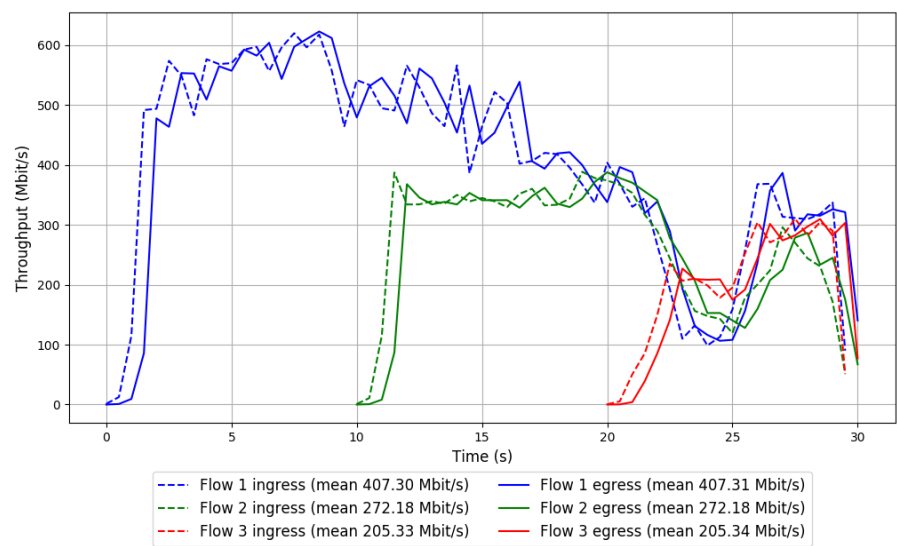


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 22:41:54  
End at: 2019-12-11 22:42:24  
Local clock offset: -0.009 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-12-12 01:47:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 651.94 Mbit/s  
95th percentile per-packet one-way delay: 85.477 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 407.31 Mbit/s  
95th percentile per-packet one-way delay: 88.123 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 272.18 Mbit/s  
95th percentile per-packet one-way delay: 62.109 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 205.34 Mbit/s  
95th percentile per-packet one-way delay: 61.110 ms  
Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTree — Data Link

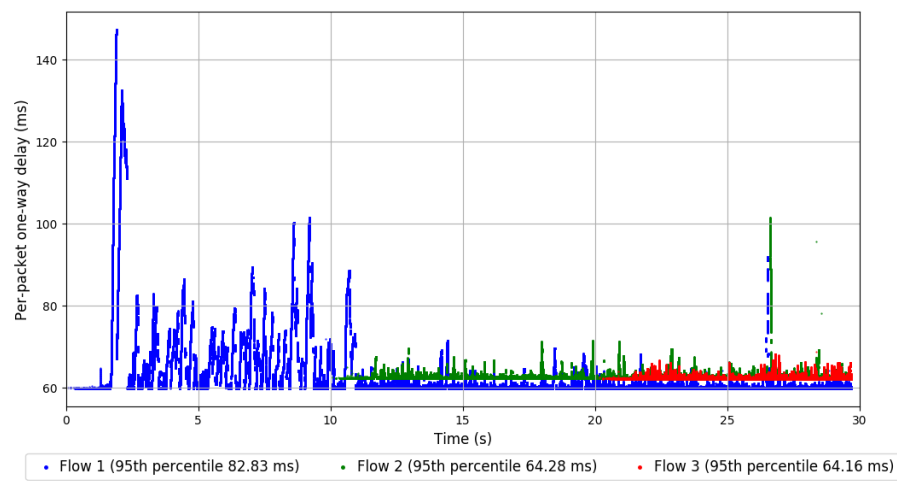
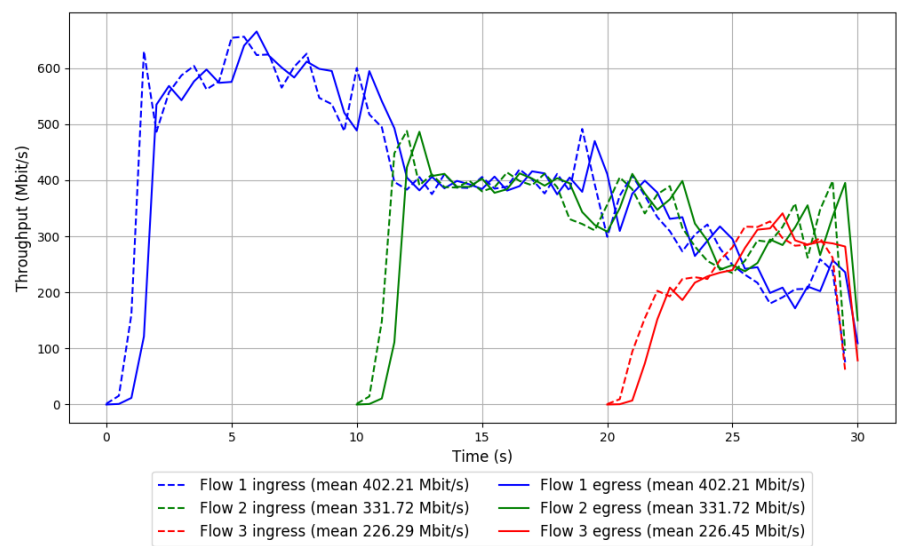


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-12-11 23:23:05  
End at: 2019-12-11 23:23:35  
Local clock offset: -0.058 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-12-12 01:49:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 694.47 Mbit/s  
95th percentile per-packet one-way delay: 76.570 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 402.21 Mbit/s  
95th percentile per-packet one-way delay: 82.828 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 331.72 Mbit/s  
95th percentile per-packet one-way delay: 64.285 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 226.45 Mbit/s  
95th percentile per-packet one-way delay: 64.163 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTree — Data Link



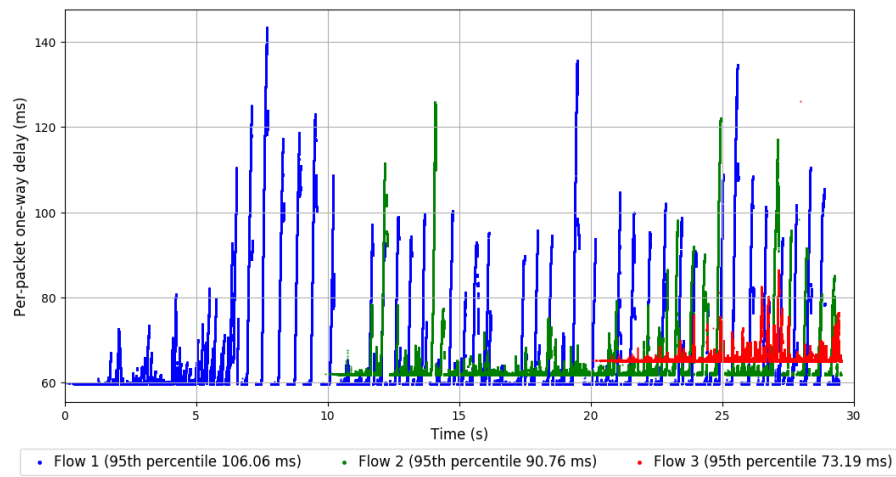
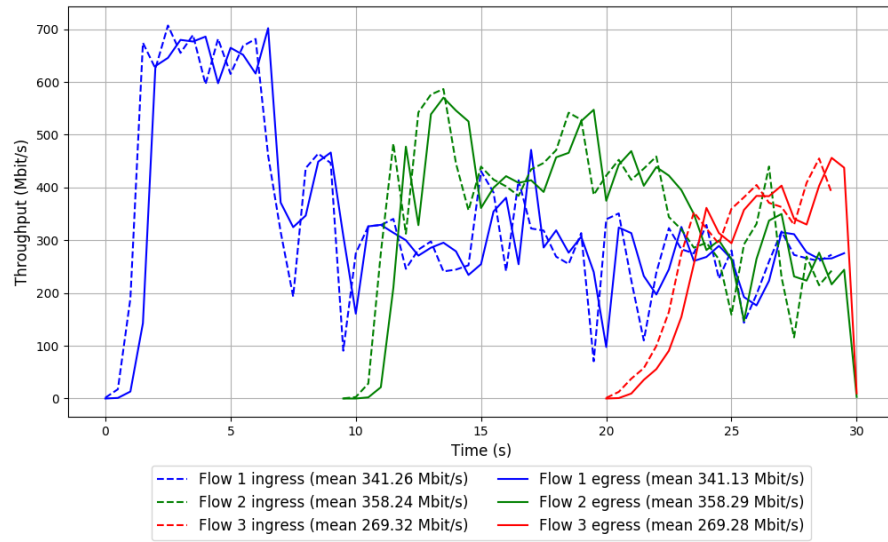


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 20:21:49  
End at: 2019-12-11 20:22:19  
Local clock offset: -0.027 ms  
Remote clock offset: -0.172 ms

# Below is generated by plot.py at 2019-12-12 01:49:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 664.75 Mbit/s  
95th percentile per-packet one-way delay: 99.785 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 341.13 Mbit/s  
95th percentile per-packet one-way delay: 106.056 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 358.29 Mbit/s  
95th percentile per-packet one-way delay: 90.756 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 269.28 Mbit/s  
95th percentile per-packet one-way delay: 73.185 ms  
Loss rate: 0.03%

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



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 21:02:47

End at: 2019-12-11 21:03:17

Local clock offset: -0.042 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-12-12 01:51:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 584.69 Mbit/s

95th percentile per-packet one-way delay: 108.321 ms

Loss rate: 0.47%

-- Flow 1:

Average throughput: 335.72 Mbit/s

95th percentile per-packet one-way delay: 117.167 ms

Loss rate: 0.67%

-- Flow 2:

Average throughput: 259.88 Mbit/s

95th percentile per-packet one-way delay: 105.735 ms

Loss rate: 0.28%

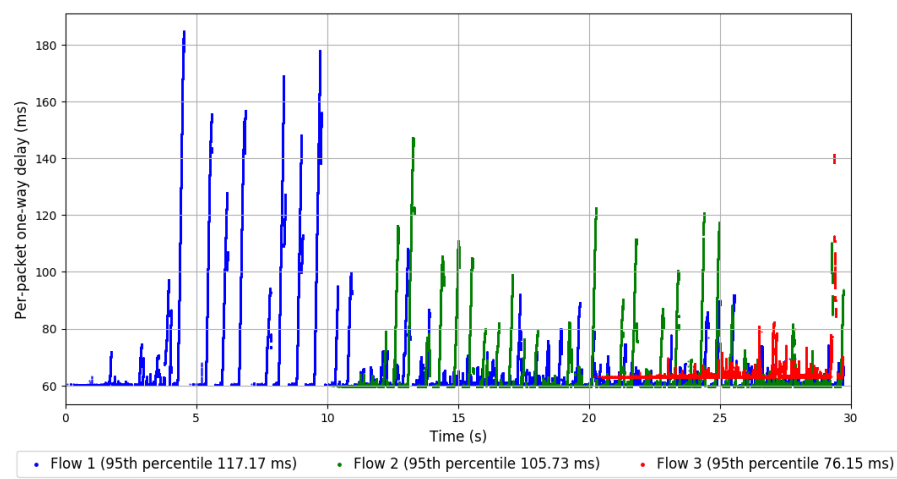
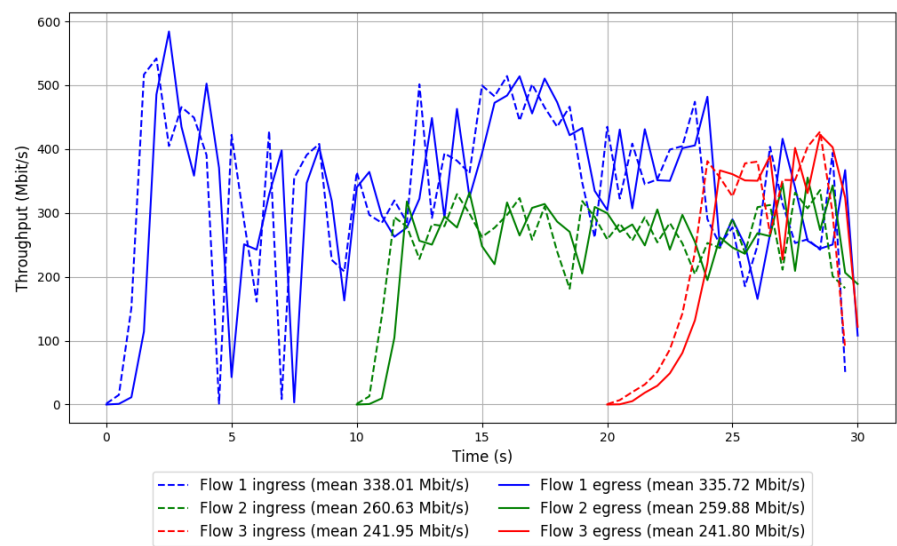
-- Flow 3:

Average throughput: 241.80 Mbit/s

95th percentile per-packet one-way delay: 76.146 ms

Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

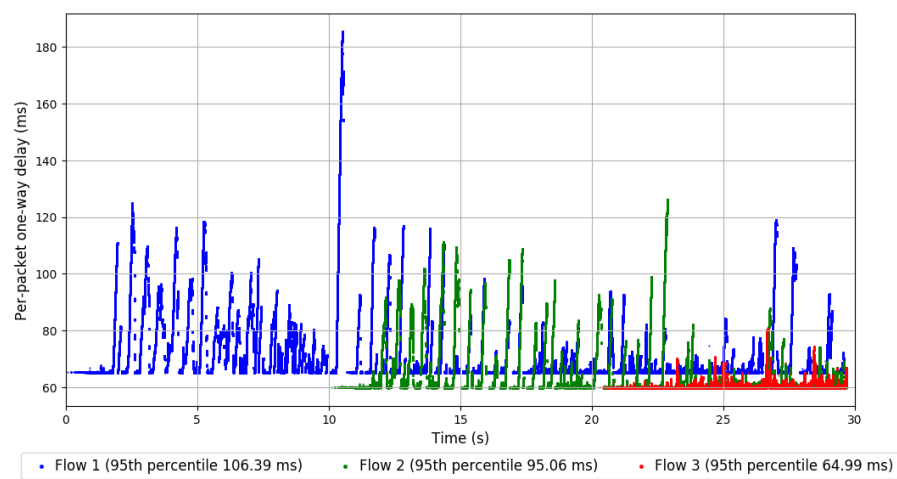
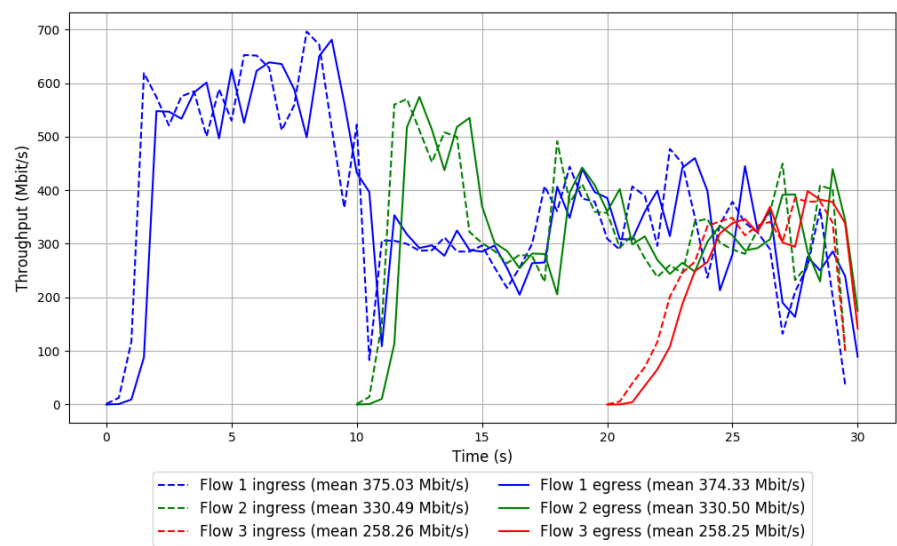


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 21:43:58  
End at: 2019-12-11 21:44:28  
Local clock offset: -0.067 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-12-12 01:56:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 674.59 Mbit/s  
95th percentile per-packet one-way delay: 100.034 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 374.33 Mbit/s  
95th percentile per-packet one-way delay: 106.393 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 330.50 Mbit/s  
95th percentile per-packet one-way delay: 95.056 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 258.25 Mbit/s  
95th percentile per-packet one-way delay: 64.993 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

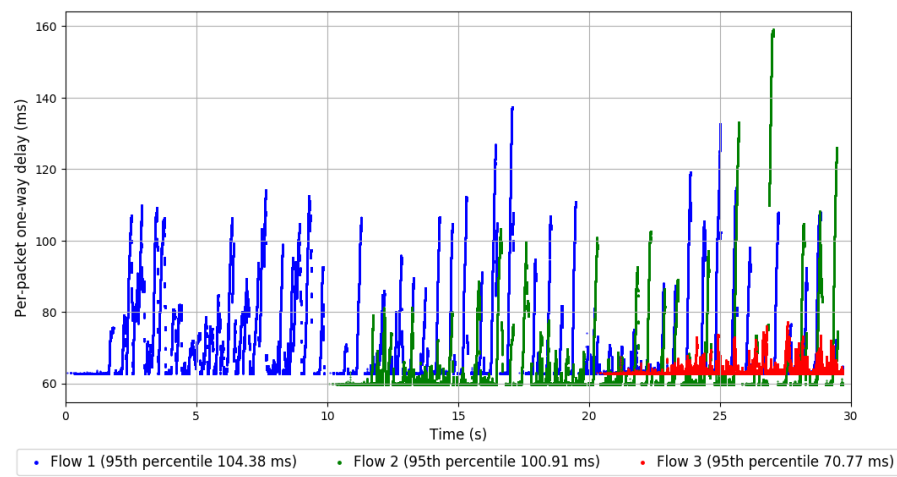
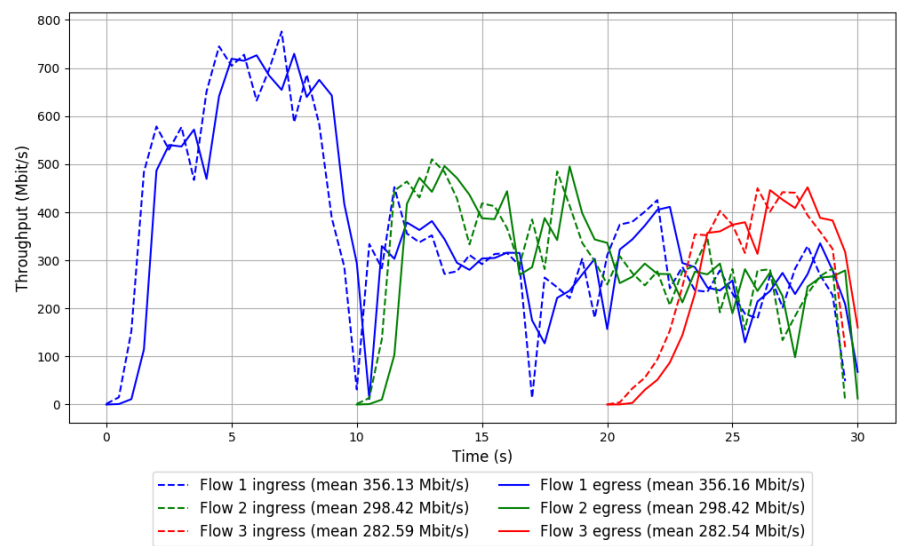


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 22:25:00  
End at: 2019-12-11 22:25:30  
Local clock offset: -0.01 ms  
Remote clock offset: -0.206 ms

# Below is generated by plot.py at 2019-12-12 01:57:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 643.30 Mbit/s  
95th percentile per-packet one-way delay: 102.719 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 356.16 Mbit/s  
95th percentile per-packet one-way delay: 104.381 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 298.42 Mbit/s  
95th percentile per-packet one-way delay: 100.914 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 282.54 Mbit/s  
95th percentile per-packet one-way delay: 70.774 ms  
Loss rate: 0.03%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



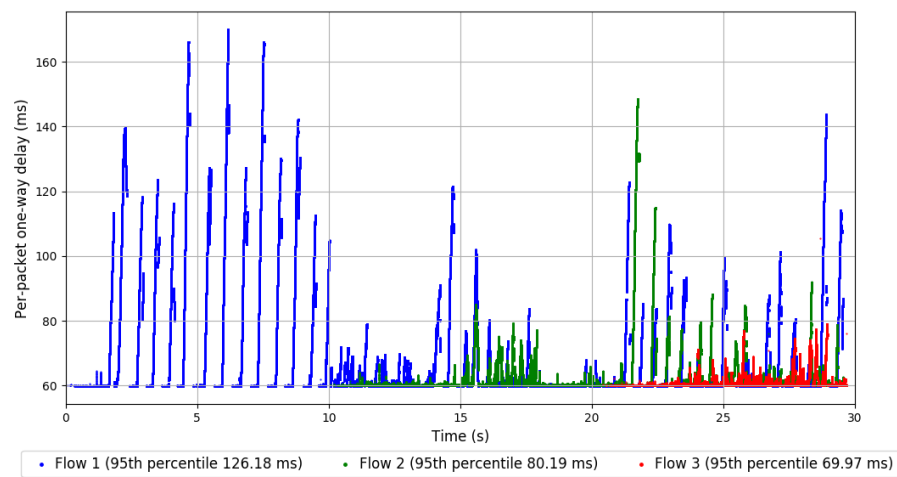
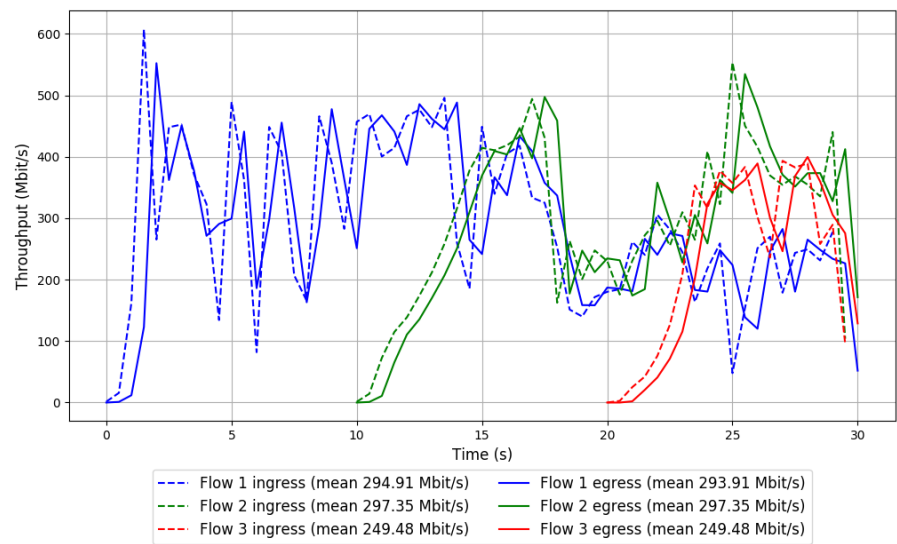


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-12-11 23:06:08  
End at: 2019-12-11 23:06:38  
Local clock offset: -0.069 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-12-12 01:57:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 567.23 Mbit/s  
95th percentile per-packet one-way delay: 116.636 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 293.91 Mbit/s  
95th percentile per-packet one-way delay: 126.183 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 297.35 Mbit/s  
95th percentile per-packet one-way delay: 80.188 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 249.48 Mbit/s  
95th percentile per-packet one-way delay: 69.975 ms  
Loss rate: 0.00%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

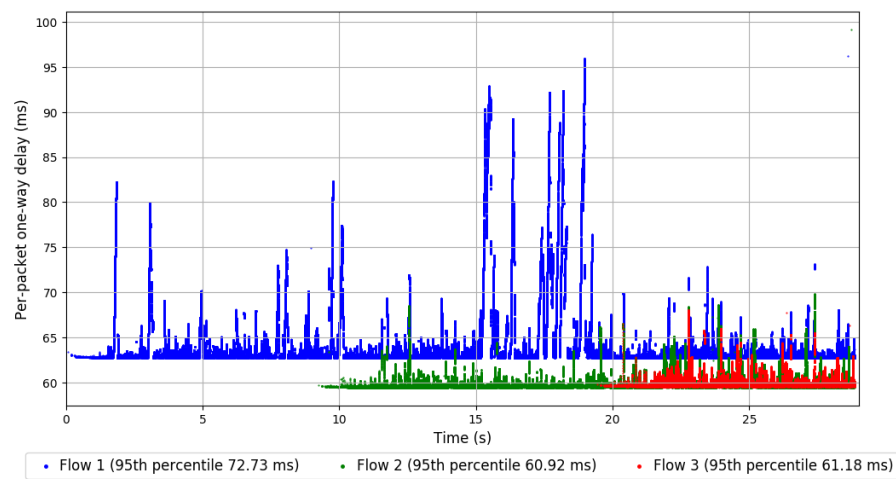
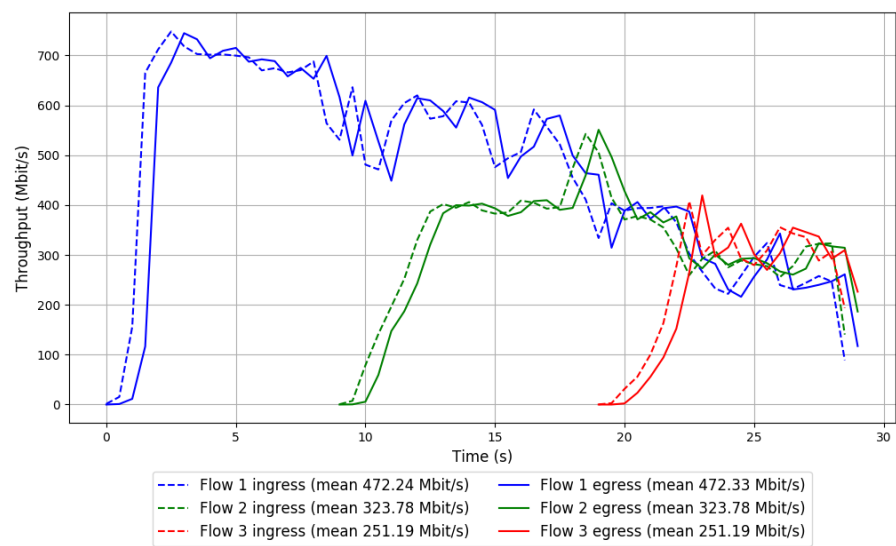


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-12-11 20:19:58
End at: 2019-12-11 20:20:28
Local clock offset: -0.068 ms
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2019-12-12 02:02:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 775.00 Mbit/s
95th percentile per-packet one-way delay: 68.195 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 472.33 Mbit/s
95th percentile per-packet one-way delay: 72.729 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 323.78 Mbit/s
95th percentile per-packet one-way delay: 60.916 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 251.19 Mbit/s
95th percentile per-packet one-way delay: 61.181 ms
Loss rate: 0.00%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

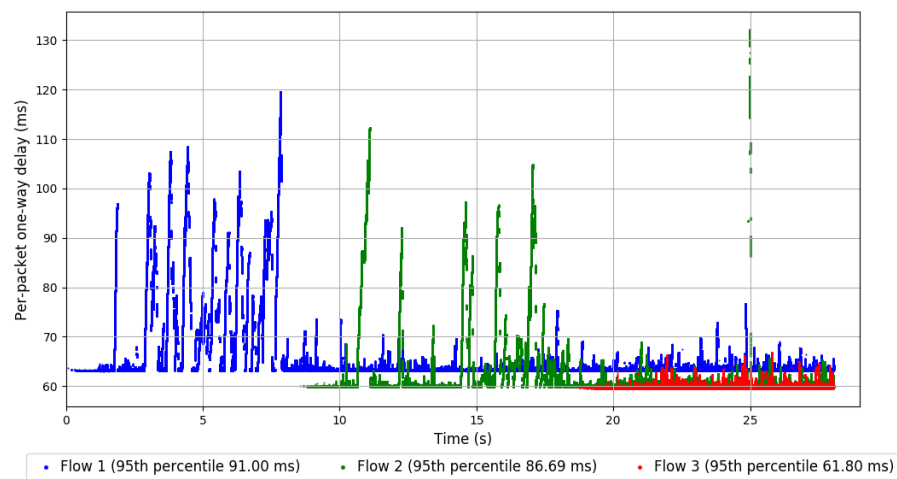
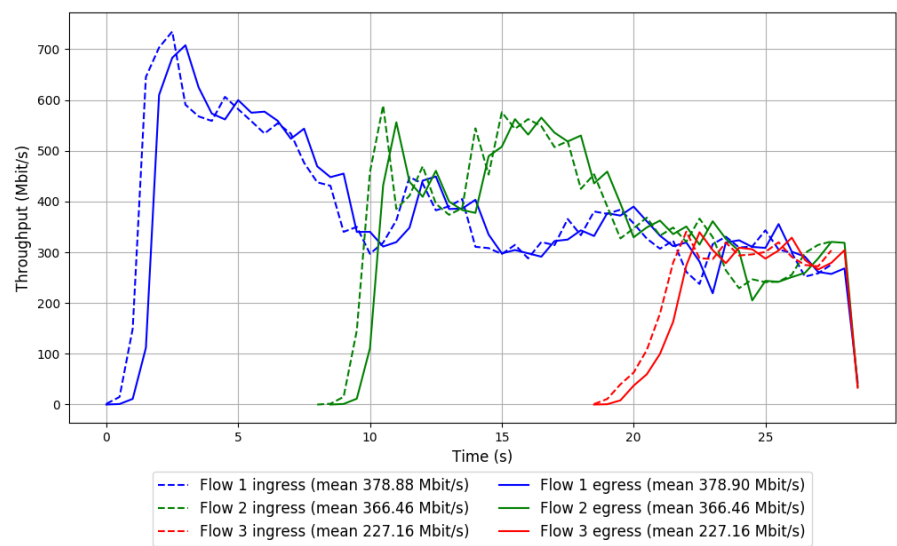


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 21:01:01  
End at: 2019-12-11 21:01:31  
Local clock offset: -0.037 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-12-12 02:02:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 710.66 Mbit/s  
95th percentile per-packet one-way delay: 87.387 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 378.90 Mbit/s  
95th percentile per-packet one-way delay: 90.995 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 366.46 Mbit/s  
95th percentile per-packet one-way delay: 86.694 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 227.16 Mbit/s  
95th percentile per-packet one-way delay: 61.795 ms  
Loss rate: 0.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

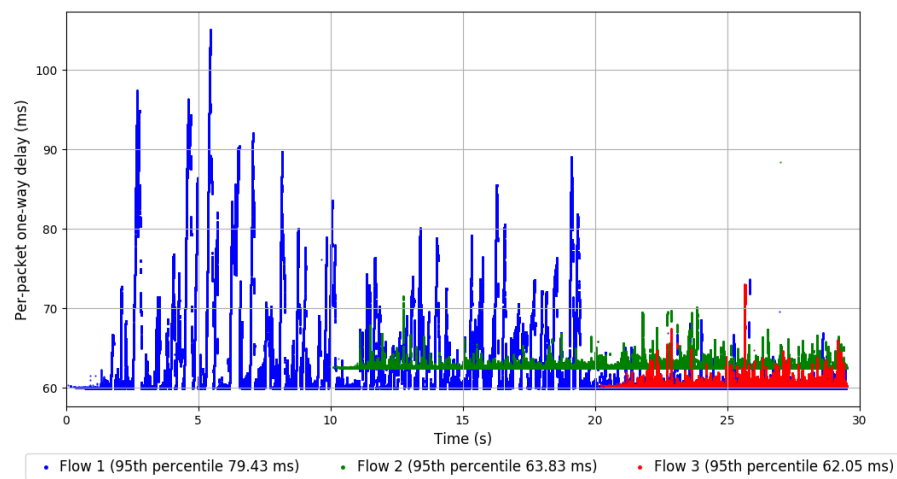
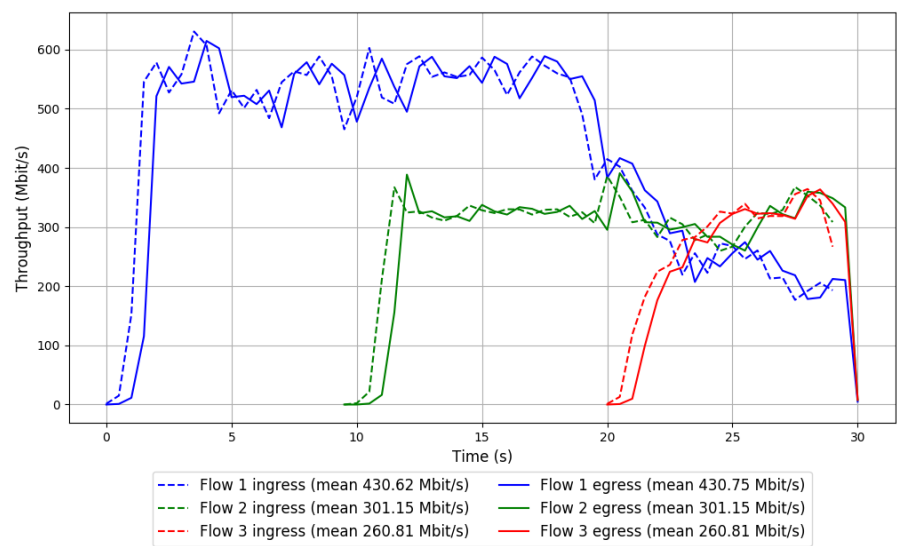


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 21:42:10  
End at: 2019-12-11 21:42:40  
Local clock offset: -0.067 ms  
Remote clock offset: -0.026 ms

# Below is generated by plot.py at 2019-12-12 02:04:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 713.86 Mbit/s  
95th percentile per-packet one-way delay: 75.179 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 430.75 Mbit/s  
95th percentile per-packet one-way delay: 79.428 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 301.15 Mbit/s  
95th percentile per-packet one-way delay: 63.825 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 260.81 Mbit/s  
95th percentile per-packet one-way delay: 62.050 ms  
Loss rate: 0.00%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



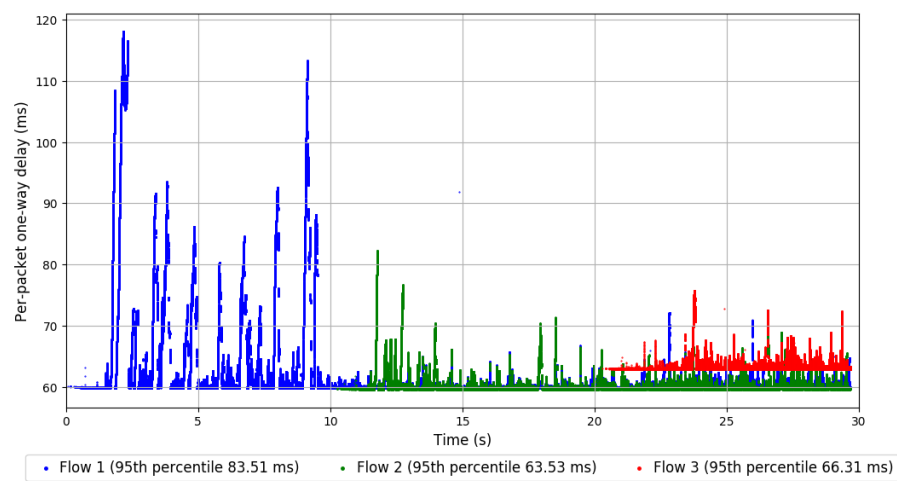
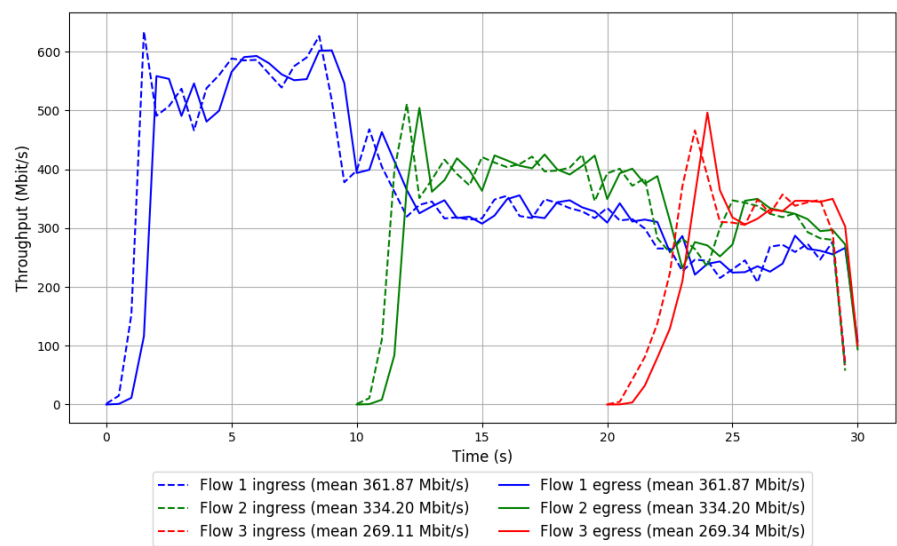


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 22:23:14  
End at: 2019-12-11 22:23:44  
Local clock offset: 0.013 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-12-12 02:04:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 667.71 Mbit/s  
95th percentile per-packet one-way delay: 73.570 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 361.87 Mbit/s  
95th percentile per-packet one-way delay: 83.511 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 334.20 Mbit/s  
95th percentile per-packet one-way delay: 63.526 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 269.34 Mbit/s  
95th percentile per-packet one-way delay: 66.308 ms  
Loss rate: 0.00%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-12-11 23:04:20

End at: 2019-12-11 23:04:50

Local clock offset: -0.095 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-12-12 02:05:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 683.91 Mbit/s

95th percentile per-packet one-way delay: 69.198 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 386.58 Mbit/s

95th percentile per-packet one-way delay: 70.981 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 330.06 Mbit/s

95th percentile per-packet one-way delay: 69.409 ms

Loss rate: 0.00%

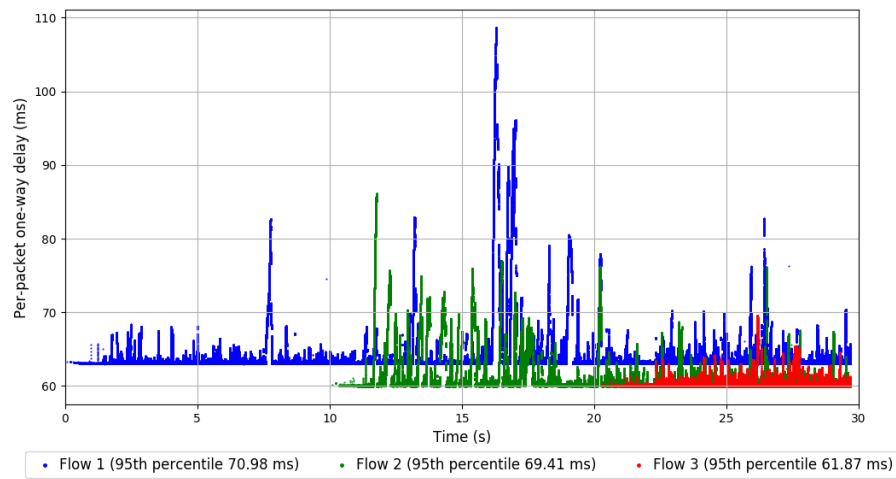
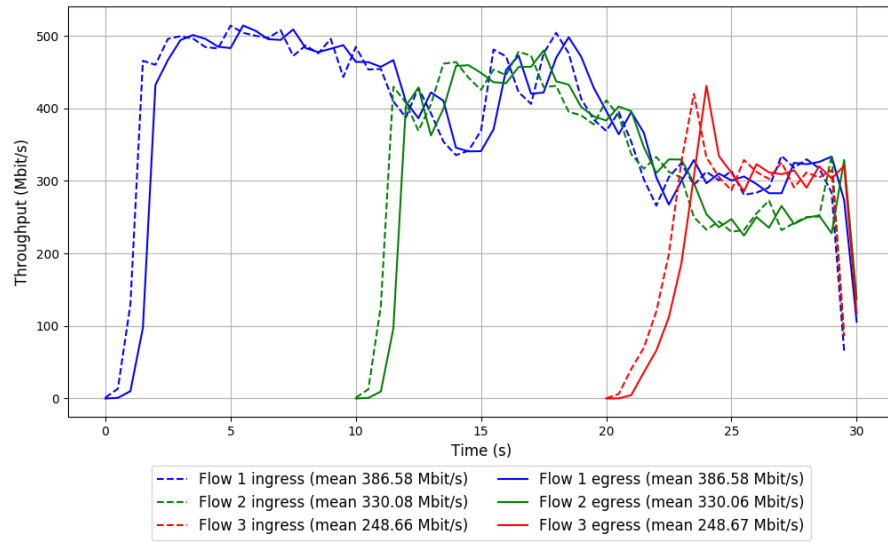
-- Flow 3:

Average throughput: 248.67 Mbit/s

95th percentile per-packet one-way delay: 61.871 ms

Loss rate: 0.00%

# Run 5: Report of Muses\_DecisionTreeR0 — Data Link

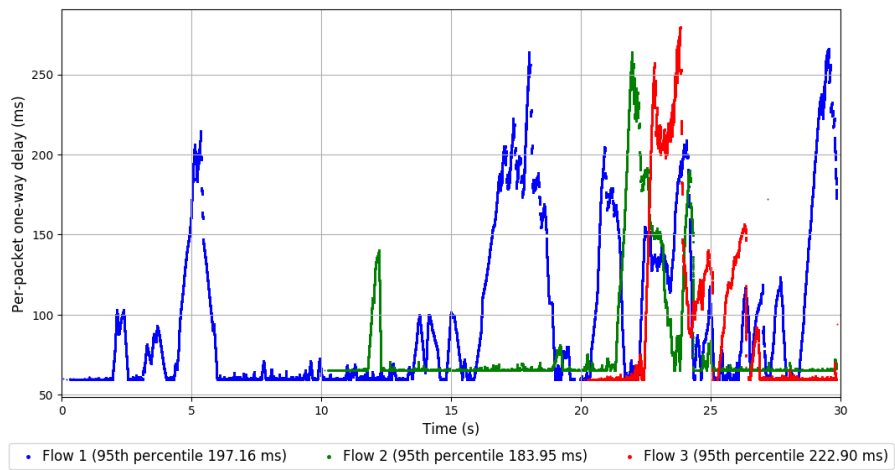
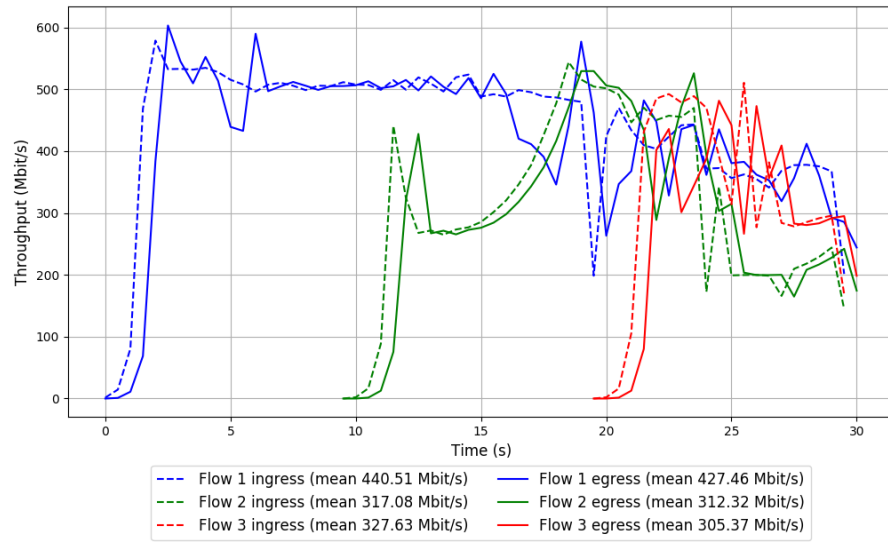


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-12-11 20:36:34
End at: 2019-12-11 20:37:04
Local clock offset: -0.014 ms
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-12-12 02:25:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 736.25 Mbit/s
95th percentile per-packet one-way delay: 199.600 ms
Loss rate: 3.07%
-- Flow 1:
Average throughput: 427.46 Mbit/s
95th percentile per-packet one-way delay: 197.165 ms
Loss rate: 2.95%
-- Flow 2:
Average throughput: 312.32 Mbit/s
95th percentile per-packet one-way delay: 183.949 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 305.37 Mbit/s
95th percentile per-packet one-way delay: 222.903 ms
Loss rate: 6.58%
```

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

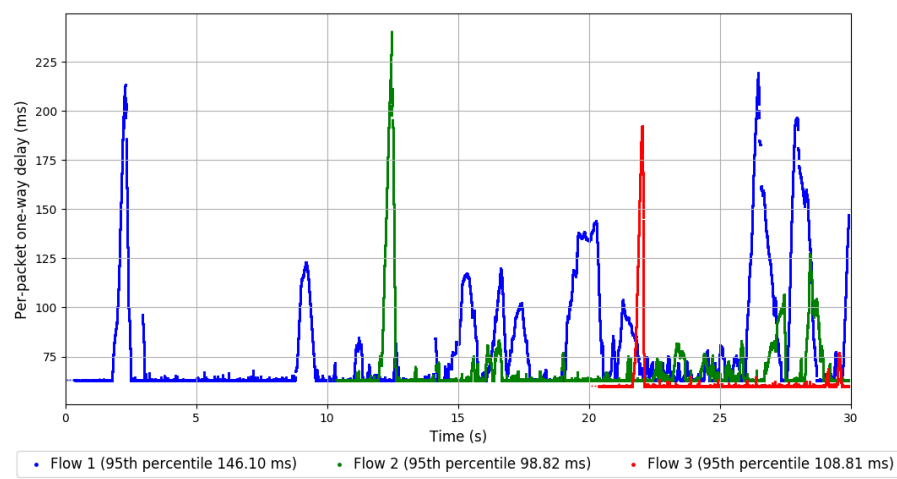
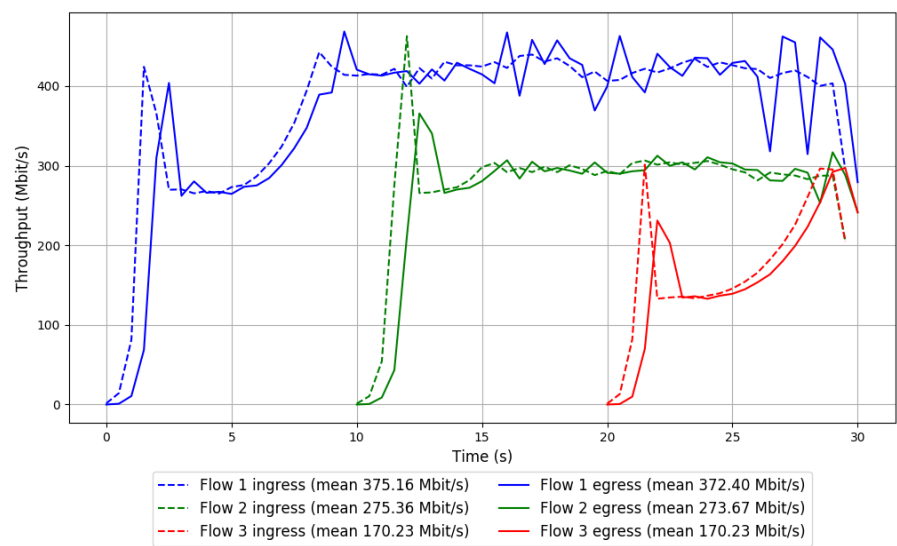


Run 2: Statistics of PCC-Allegro

Start at: 2019-12-11 21:17:38  
End at: 2019-12-11 21:18:08  
Local clock offset: -0.025 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-12-12 02:25:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 610.28 Mbit/s  
95th percentile per-packet one-way delay: 137.783 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 372.40 Mbit/s  
95th percentile per-packet one-way delay: 146.097 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 273.67 Mbit/s  
95th percentile per-packet one-way delay: 98.819 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 170.23 Mbit/s  
95th percentile per-packet one-way delay: 108.813 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Allegro — Data Link



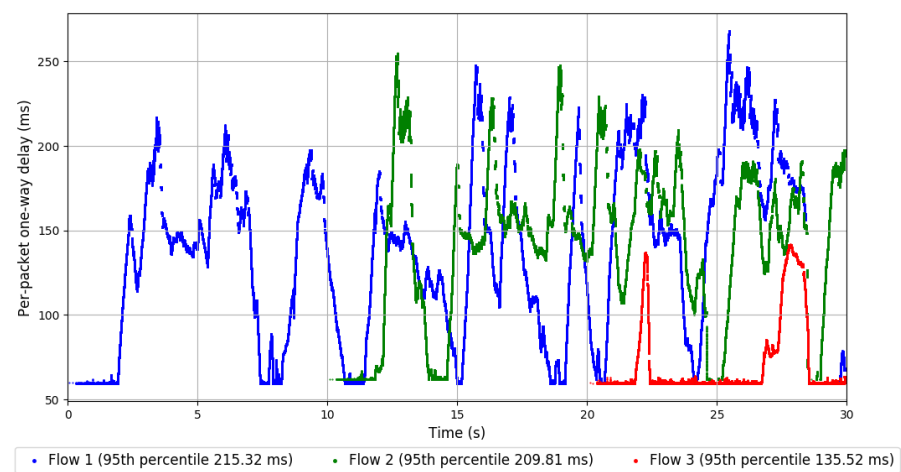
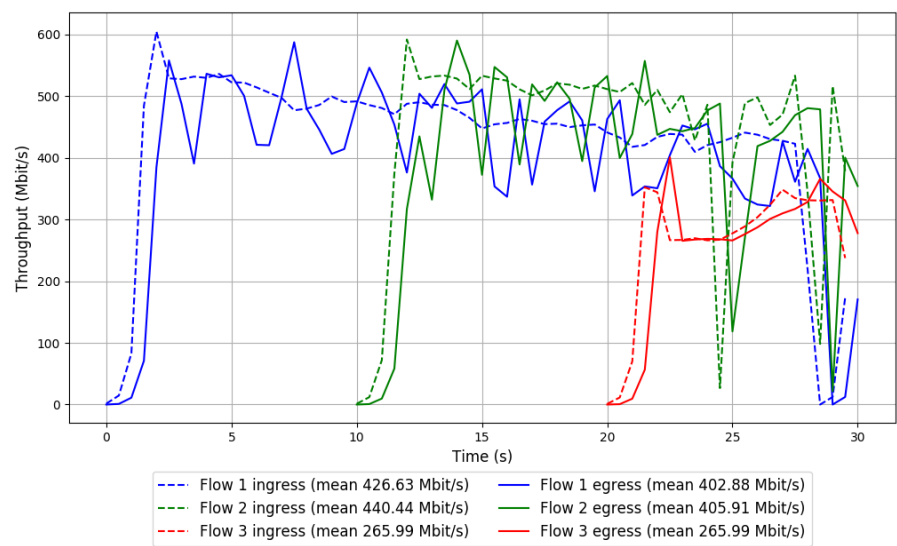


Run 3: Statistics of PCC-Allegro

Start at: 2019-12-11 21:58:42  
End at: 2019-12-11 21:59:12  
Local clock offset: -0.067 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-12-12 02:28:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 760.18 Mbit/s  
95th percentile per-packet one-way delay: 211.541 ms  
Loss rate: 5.78%  
-- Flow 1:  
Average throughput: 402.88 Mbit/s  
95th percentile per-packet one-way delay: 215.320 ms  
Loss rate: 5.56%  
-- Flow 2:  
Average throughput: 405.91 Mbit/s  
95th percentile per-packet one-way delay: 209.809 ms  
Loss rate: 7.84%  
-- Flow 3:  
Average throughput: 265.99 Mbit/s  
95th percentile per-packet one-way delay: 135.521 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Allegro — Data Link

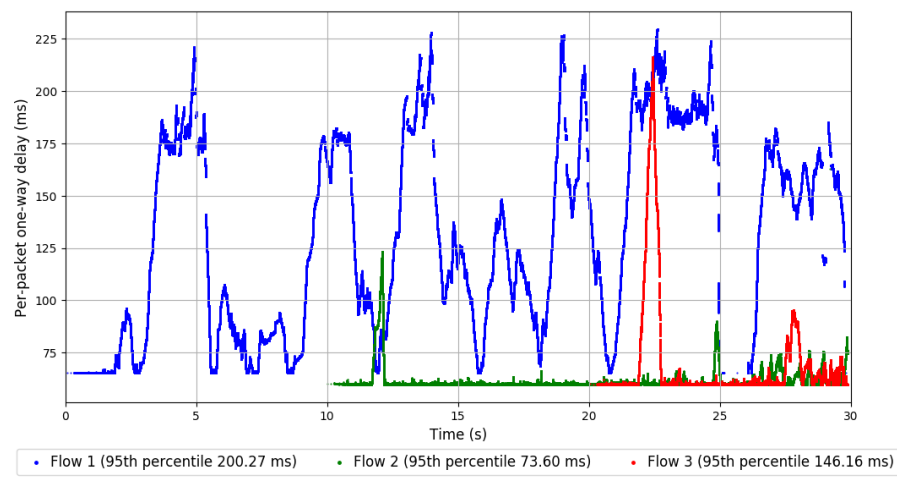
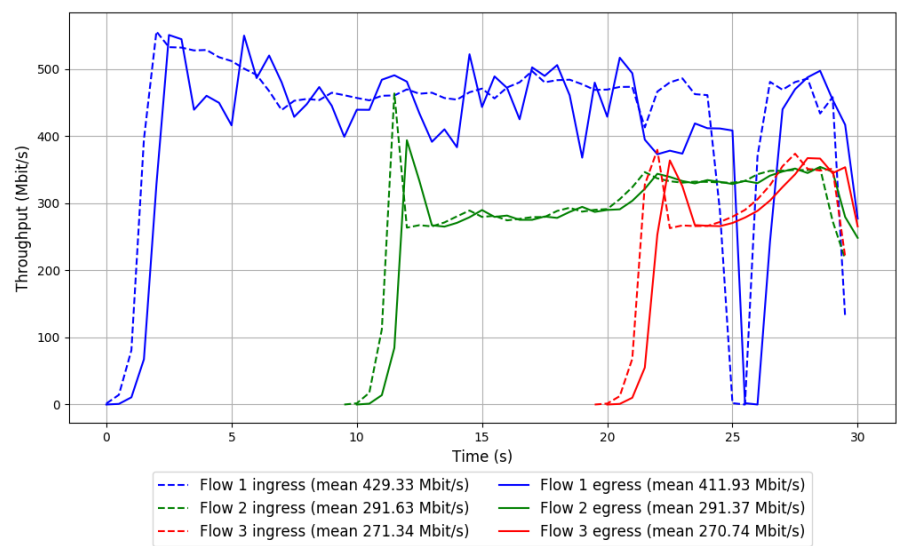


Run 4: Statistics of PCC-Allegro

Start at: 2019-12-11 22:39:54  
End at: 2019-12-11 22:40:24  
Local clock offset: -0.01 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-12-12 02:29:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 694.68 Mbit/s  
95th percentile per-packet one-way delay: 193.426 ms  
Loss rate: 2.49%  
-- Flow 1:  
Average throughput: 411.93 Mbit/s  
95th percentile per-packet one-way delay: 200.273 ms  
Loss rate: 4.05%  
-- Flow 2:  
Average throughput: 291.37 Mbit/s  
95th percentile per-packet one-way delay: 73.603 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 270.74 Mbit/s  
95th percentile per-packet one-way delay: 146.159 ms  
Loss rate: 0.22%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-12-11 23:21:05

End at: 2019-12-11 23:21:35

Local clock offset: -0.053 ms

Remote clock offset: 0.087 ms

# Below is generated by plot.py at 2019-12-12 02:30:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 711.27 Mbit/s

95th percentile per-packet one-way delay: 179.583 ms

Loss rate: 2.50%

-- Flow 1:

Average throughput: 445.23 Mbit/s

95th percentile per-packet one-way delay: 189.408 ms

Loss rate: 3.93%

-- Flow 2:

Average throughput: 283.23 Mbit/s

95th percentile per-packet one-way delay: 79.564 ms

Loss rate: 0.00%

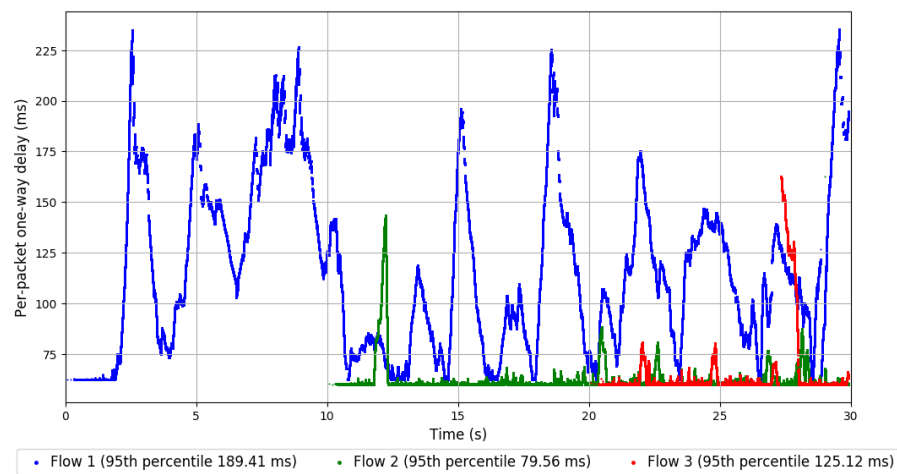
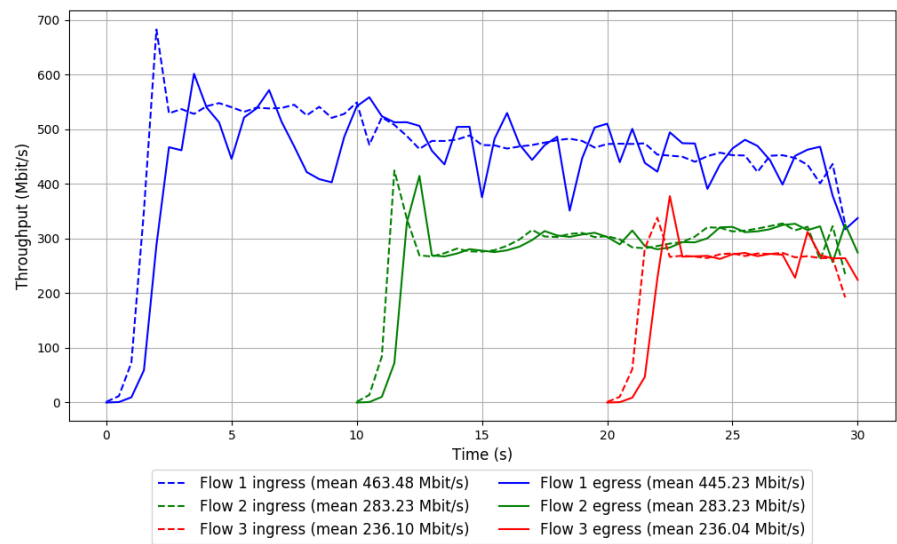
-- Flow 3:

Average throughput: 236.04 Mbit/s

95th percentile per-packet one-way delay: 125.123 ms

Loss rate: 0.00%

Run 5: Report of PCC-Allegro — Data Link

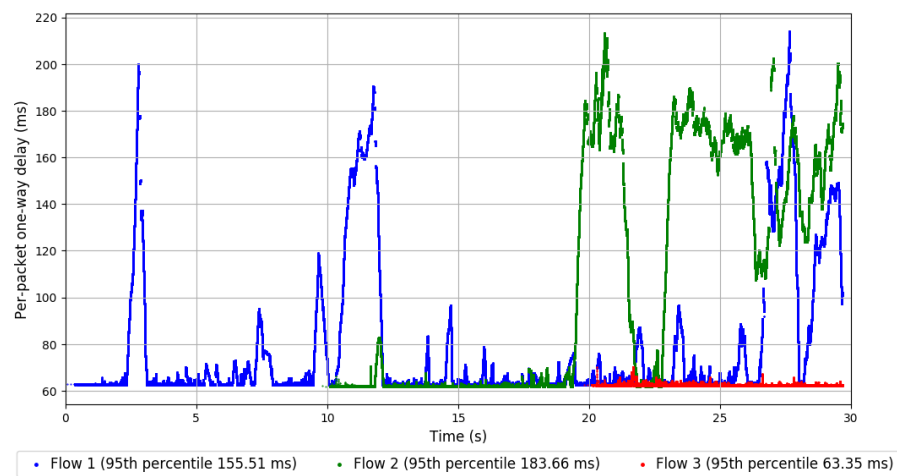
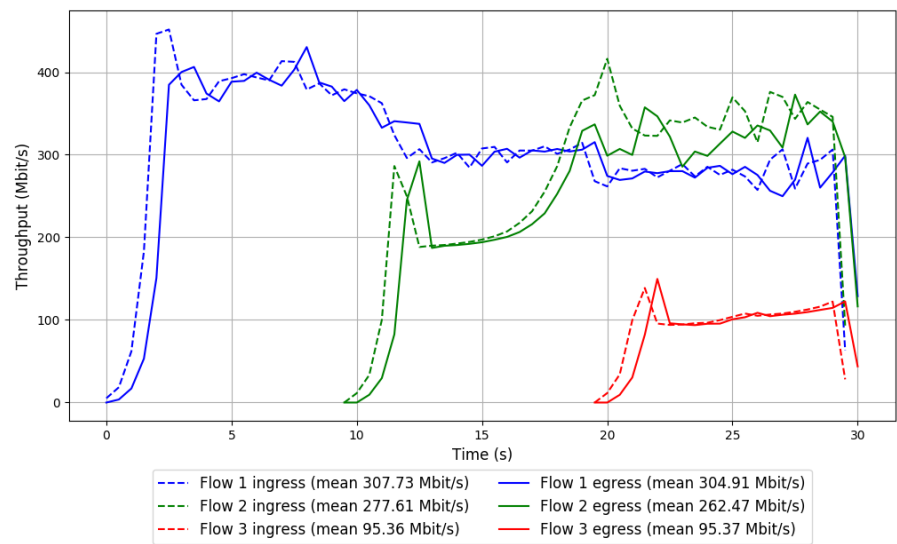


```
Run 1: Statistics of PCC-Expr

Start at: 2019-12-11 20:25:08
End at: 2019-12-11 20:25:38
Local clock offset: -0.035 ms
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-12-12 02:30:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 512.76 Mbit/s
95th percentile per-packet one-way delay: 175.465 ms
Loss rate: 2.47%
-- Flow 1:
Average throughput: 304.91 Mbit/s
95th percentile per-packet one-way delay: 155.513 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 262.47 Mbit/s
95th percentile per-packet one-way delay: 183.656 ms
Loss rate: 5.45%
-- Flow 3:
Average throughput: 95.37 Mbit/s
95th percentile per-packet one-way delay: 63.346 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link



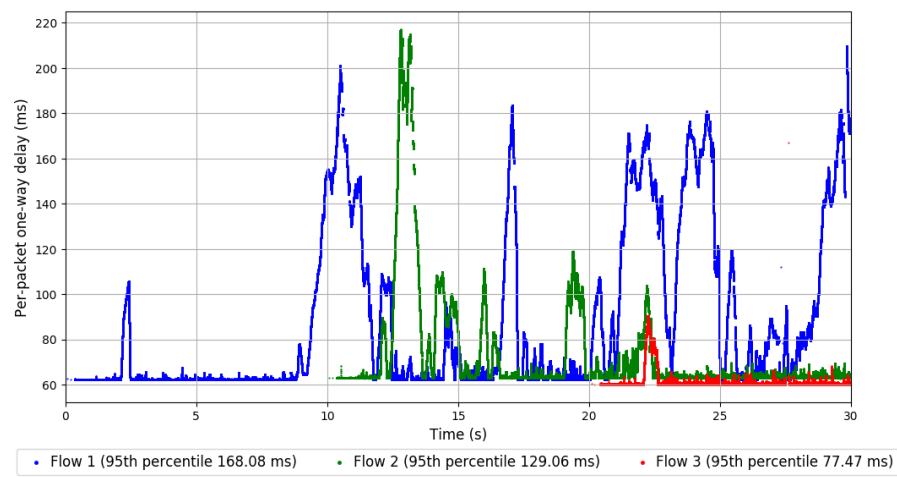
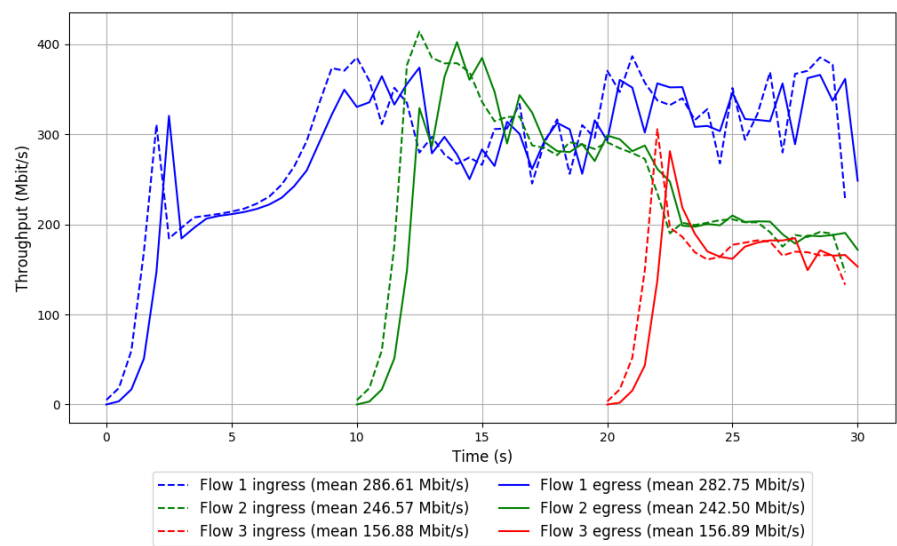


Run 2: Statistics of PCC-Expr

Start at: 2019-12-11 21:06:14  
End at: 2019-12-11 21:06:44  
Local clock offset: -0.04 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-12-12 02:30:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 495.78 Mbit/s  
95th percentile per-packet one-way delay: 164.490 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 282.75 Mbit/s  
95th percentile per-packet one-way delay: 168.078 ms  
Loss rate: 1.35%  
-- Flow 2:  
Average throughput: 242.50 Mbit/s  
95th percentile per-packet one-way delay: 129.057 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 156.89 Mbit/s  
95th percentile per-packet one-way delay: 77.471 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Expr — Data Link

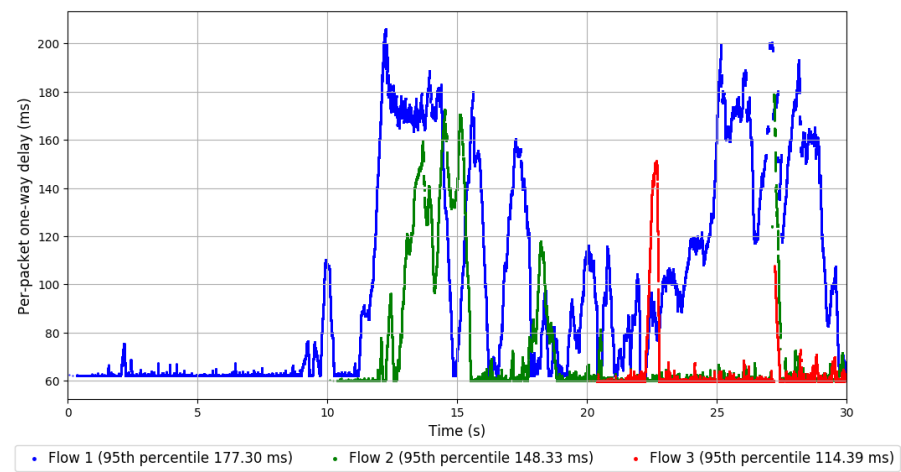
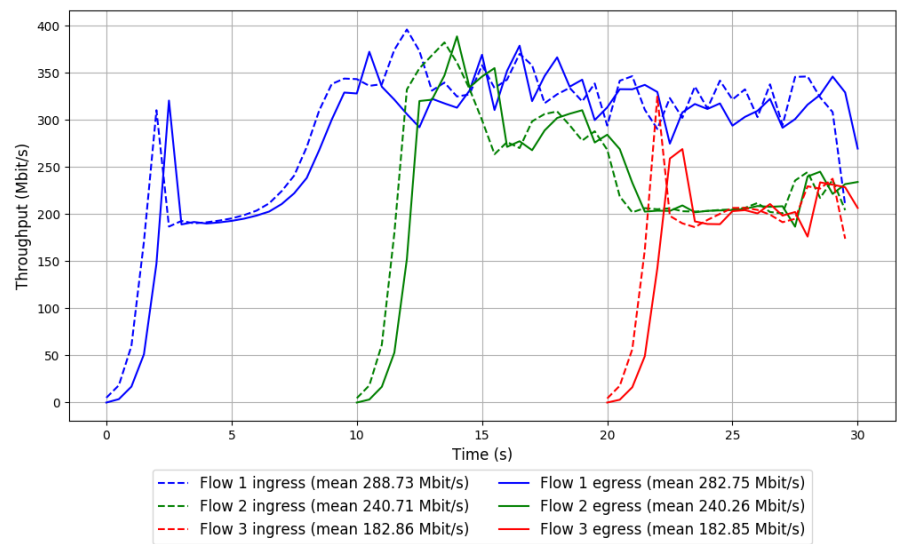


Run 3: Statistics of PCC-Expr

Start at: 2019-12-11 21:47:31  
End at: 2019-12-11 21:48:01  
Local clock offset: -0.061 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-12-12 02:30:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 502.77 Mbit/s  
95th percentile per-packet one-way delay: 172.804 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 282.75 Mbit/s  
95th percentile per-packet one-way delay: 177.300 ms  
Loss rate: 2.07%  
-- Flow 2:  
Average throughput: 240.26 Mbit/s  
95th percentile per-packet one-way delay: 148.329 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 182.85 Mbit/s  
95th percentile per-packet one-way delay: 114.395 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link

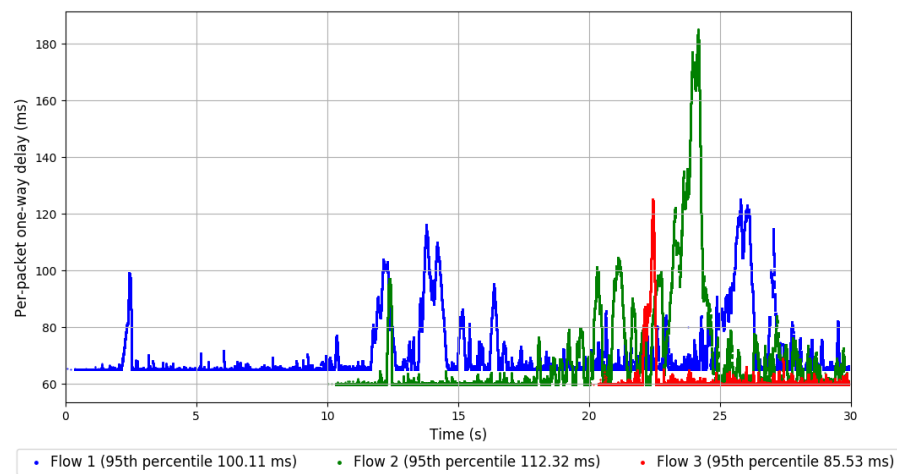
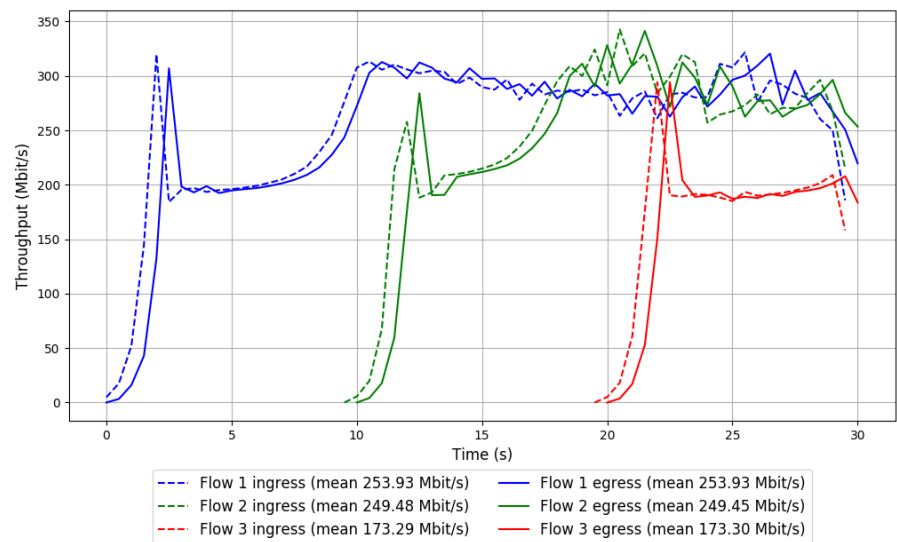


Run 4: Statistics of PCC-Expr

Start at: 2019-12-11 22:28:30  
End at: 2019-12-11 22:29:00  
Local clock offset: 0.005 ms  
Remote clock offset: -0.122 ms

# Below is generated by plot.py at 2019-12-12 02:38:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 477.20 Mbit/s  
95th percentile per-packet one-way delay: 101.562 ms  
Loss rate: 0.01%  
-- Flow 1:  
Average throughput: 253.93 Mbit/s  
95th percentile per-packet one-way delay: 100.115 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 249.45 Mbit/s  
95th percentile per-packet one-way delay: 112.322 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 173.30 Mbit/s  
95th percentile per-packet one-way delay: 85.527 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Expr — Data Link

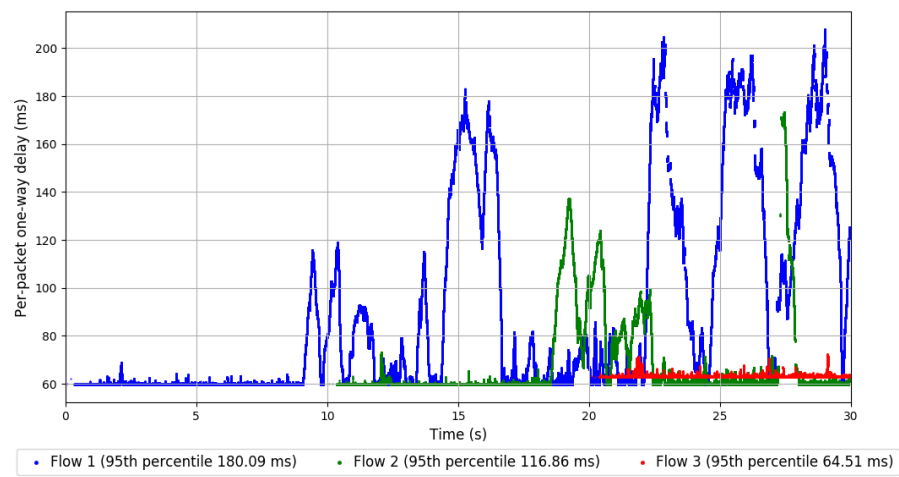
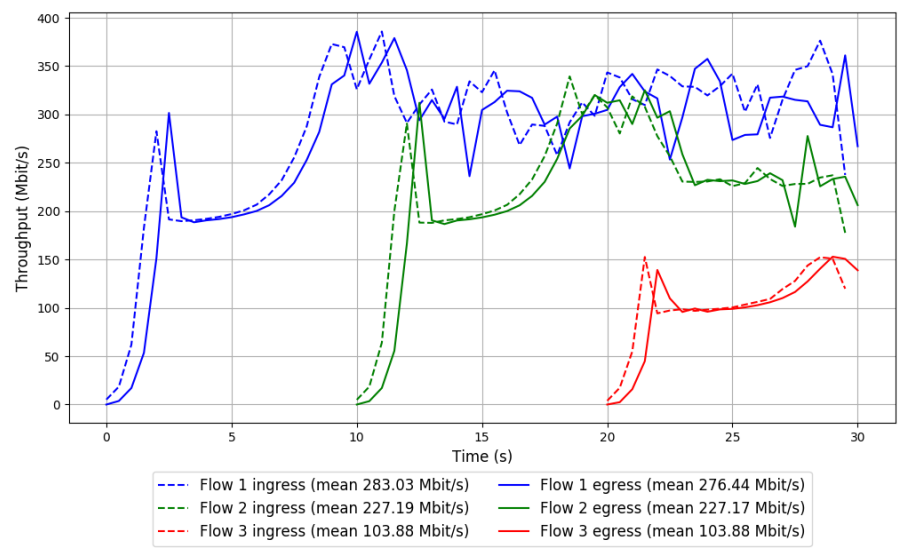


Run 5: Statistics of PCC-Expr

Start at: 2019-12-11 23:09:37  
End at: 2019-12-11 23:10:07  
Local clock offset: -0.031 ms  
Remote clock offset: -0.174 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 461.74 Mbit/s  
95th percentile per-packet one-way delay: 172.309 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 276.44 Mbit/s  
95th percentile per-packet one-way delay: 180.090 ms  
Loss rate: 2.32%  
-- Flow 2:  
Average throughput: 227.17 Mbit/s  
95th percentile per-packet one-way delay: 116.855 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 103.88 Mbit/s  
95th percentile per-packet one-way delay: 64.510 ms  
Loss rate: 0.00%

Run 5: Report of PCC-Expr — Data Link



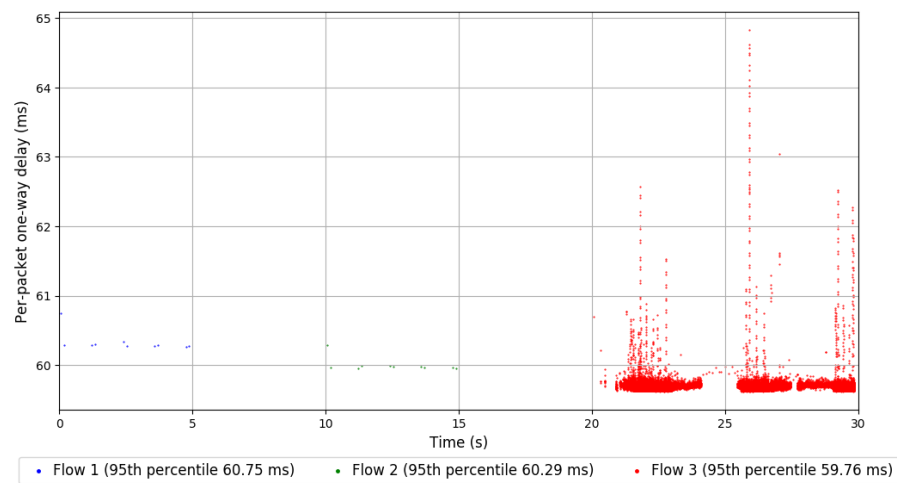
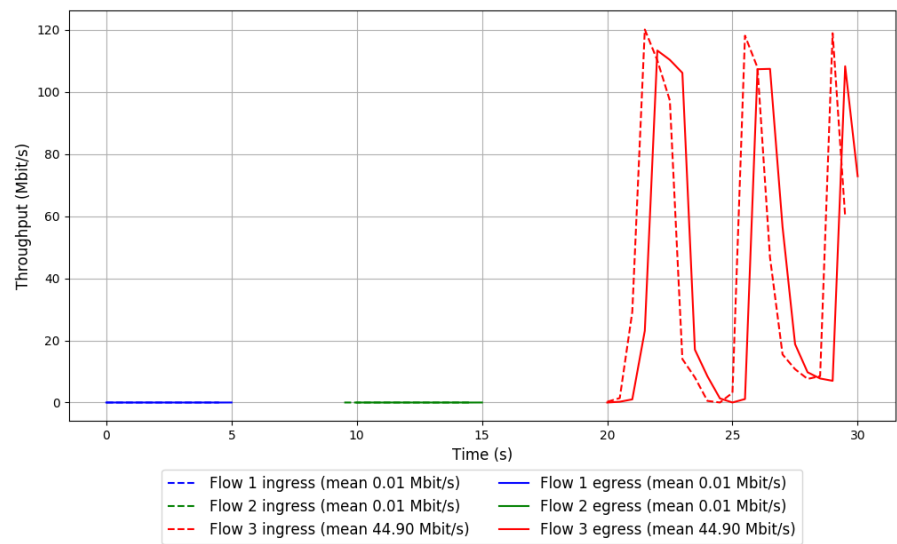


Run 1: Statistics of QUIC Cubic

Start at: 2019-12-11 20:14:04  
End at: 2019-12-11 20:14:34  
Local clock offset: -0.087 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.74 Mbit/s  
95th percentile per-packet one-way delay: 59.755 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 60.746 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.01 Mbit/s  
95th percentile per-packet one-way delay: 60.287 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 44.90 Mbit/s  
95th percentile per-packet one-way delay: 59.755 ms  
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

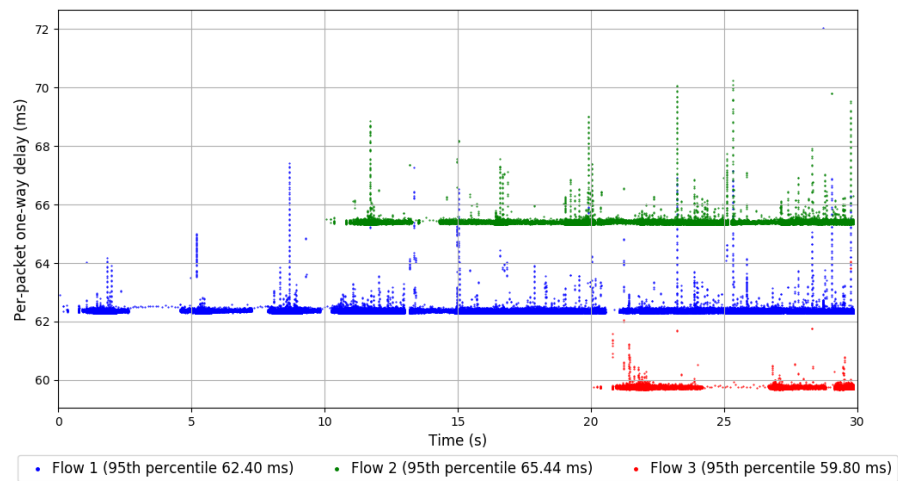
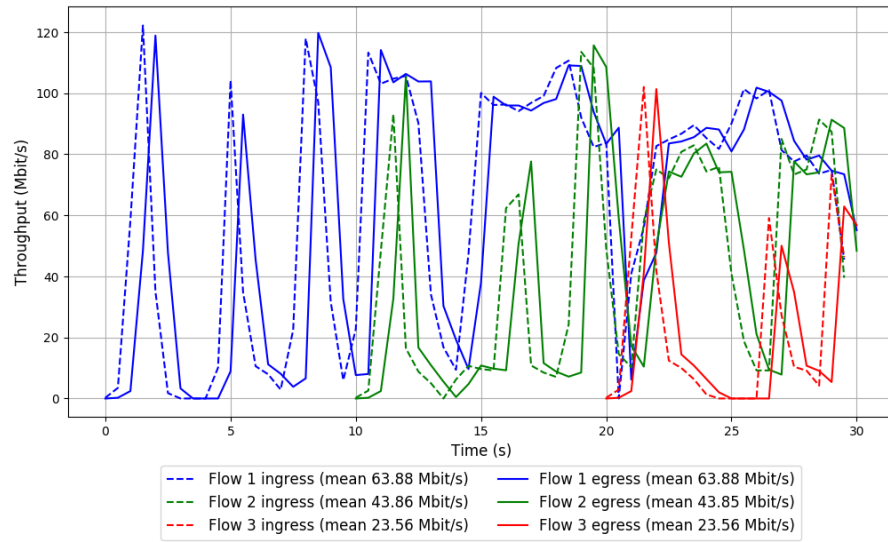


Run 2: Statistics of QUIC Cubic

Start at: 2019-12-11 20:55:02  
End at: 2019-12-11 20:55:32  
Local clock offset: -0.011 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 100.71 Mbit/s  
95th percentile per-packet one-way delay: 65.401 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 63.88 Mbit/s  
95th percentile per-packet one-way delay: 62.401 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 43.85 Mbit/s  
95th percentile per-packet one-way delay: 65.438 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 23.56 Mbit/s  
95th percentile per-packet one-way delay: 59.802 ms  
Loss rate: 0.00%

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



Run 3: Statistics of QUIC Cubic

Start at: 2019-12-11 21:36:17

End at: 2019-12-11 21:36:47

Local clock offset: -0.035 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-12-12 02:41:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 97.50 Mbit/s

95th percentile per-packet one-way delay: 62.725 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 60.46 Mbit/s

95th percentile per-packet one-way delay: 62.742 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.64 Mbit/s

95th percentile per-packet one-way delay: 59.681 ms

Loss rate: 0.00%

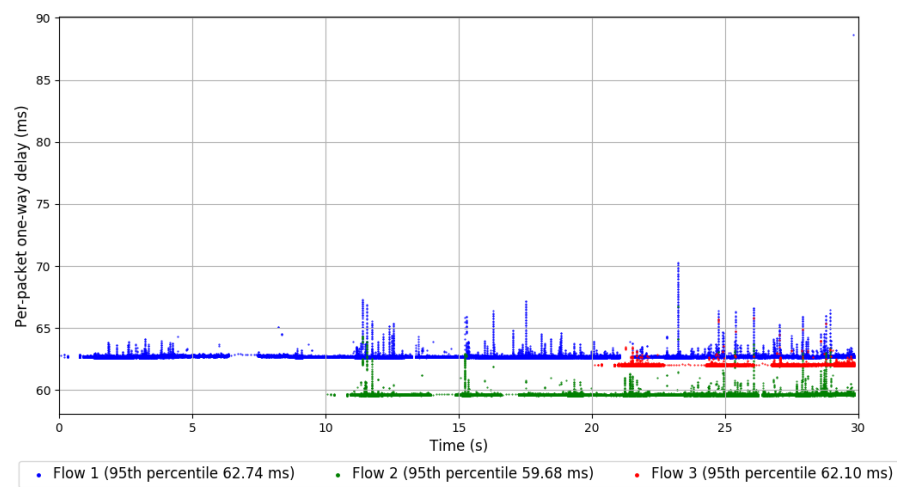
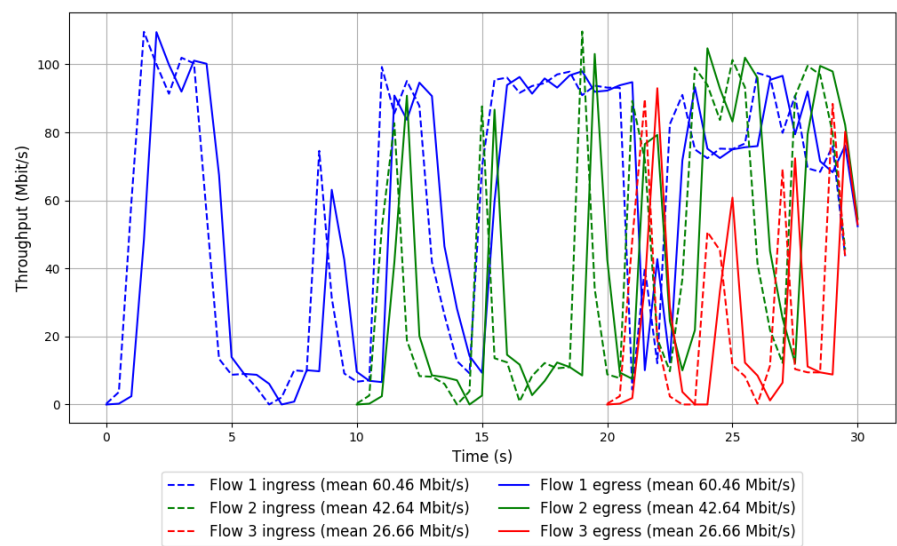
-- Flow 3:

Average throughput: 26.66 Mbit/s

95th percentile per-packet one-way delay: 62.096 ms

Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-12-11 22:17:17

End at: 2019-12-11 22:17:47

Local clock offset: 0.0 ms

Remote clock offset: 0.024 ms

# Below is generated by plot.py at 2019-12-12 02:41:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.17 Mbit/s

95th percentile per-packet one-way delay: 62.413 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 60.010 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 52.67 Mbit/s

95th percentile per-packet one-way delay: 62.443 ms

Loss rate: 0.00%

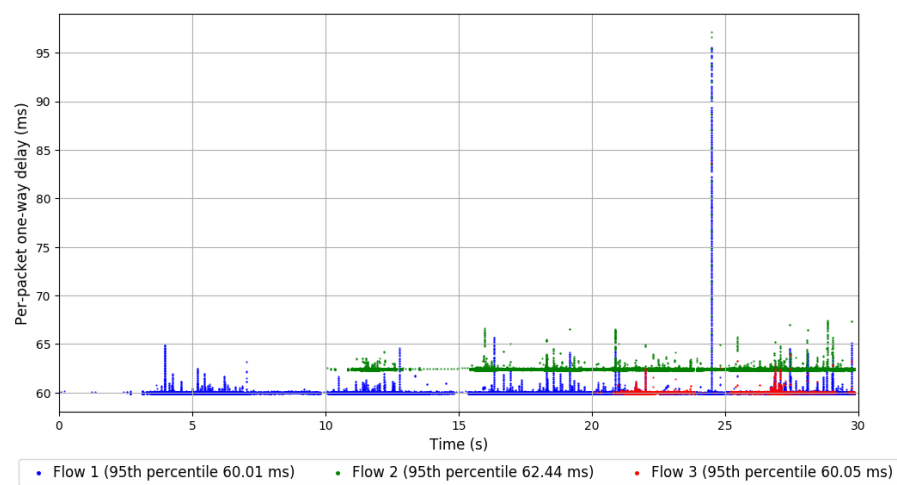
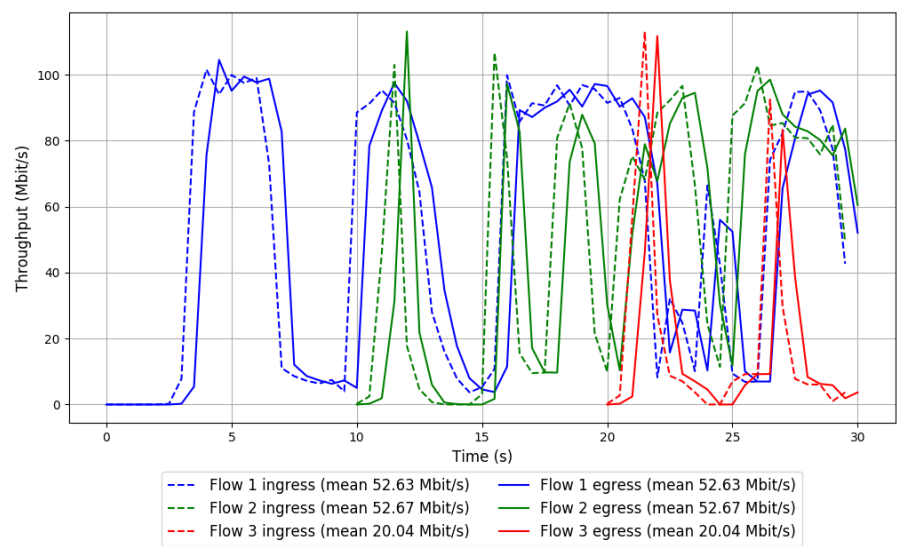
-- Flow 3:

Average throughput: 20.04 Mbit/s

95th percentile per-packet one-way delay: 60.050 ms

Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link





Run 5: Statistics of QUIC Cubic

Start at: 2019-12-11 22:58:21

End at: 2019-12-11 22:58:51

Local clock offset: -0.043 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-12-12 02:41:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 89.99 Mbit/s

95th percentile per-packet one-way delay: 62.605 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.43 Mbit/s

95th percentile per-packet one-way delay: 62.619 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 42.17 Mbit/s

95th percentile per-packet one-way delay: 59.814 ms

Loss rate: 0.00%

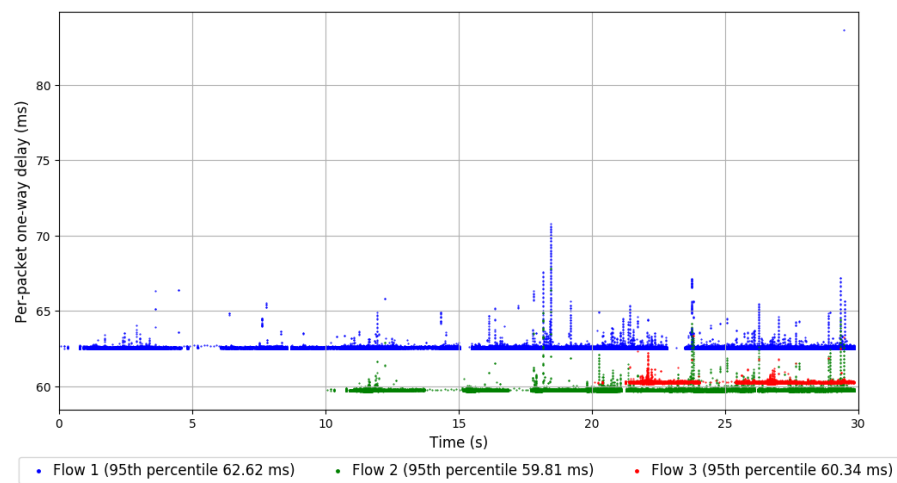
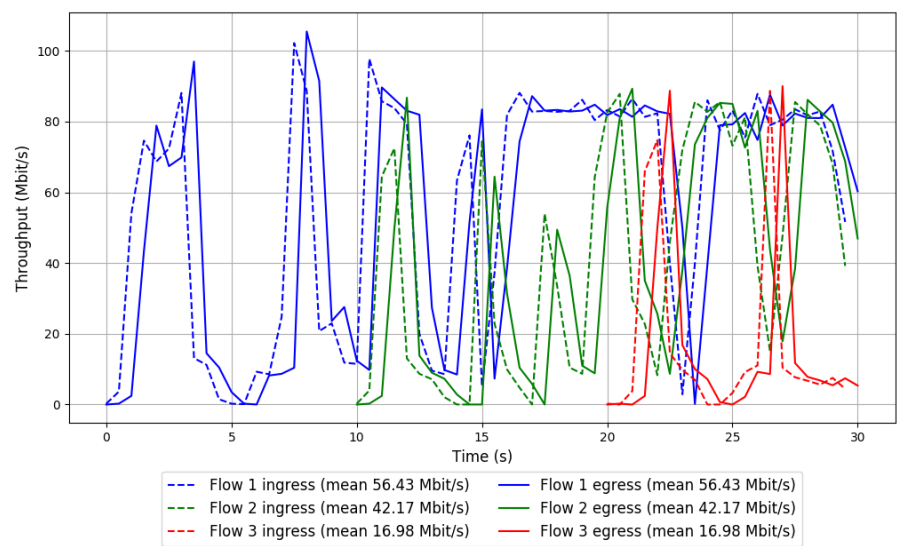
-- Flow 3:

Average throughput: 16.98 Mbit/s

95th percentile per-packet one-way delay: 60.339 ms

Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

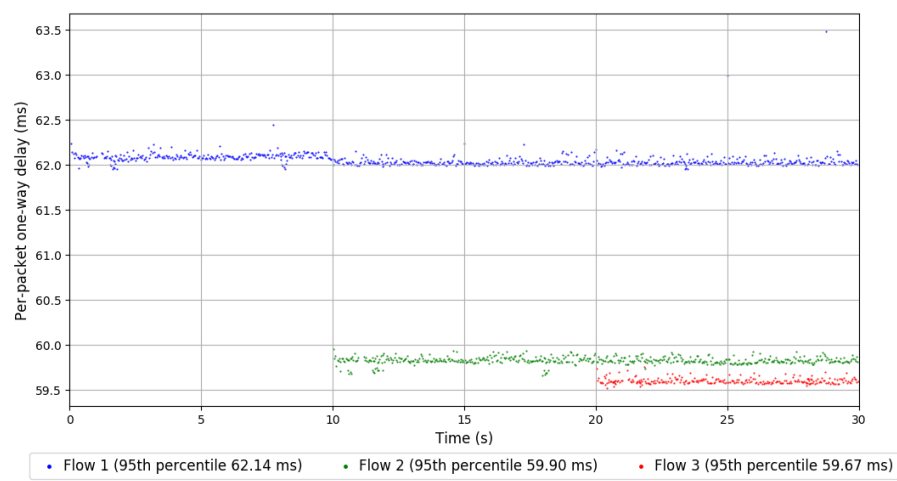
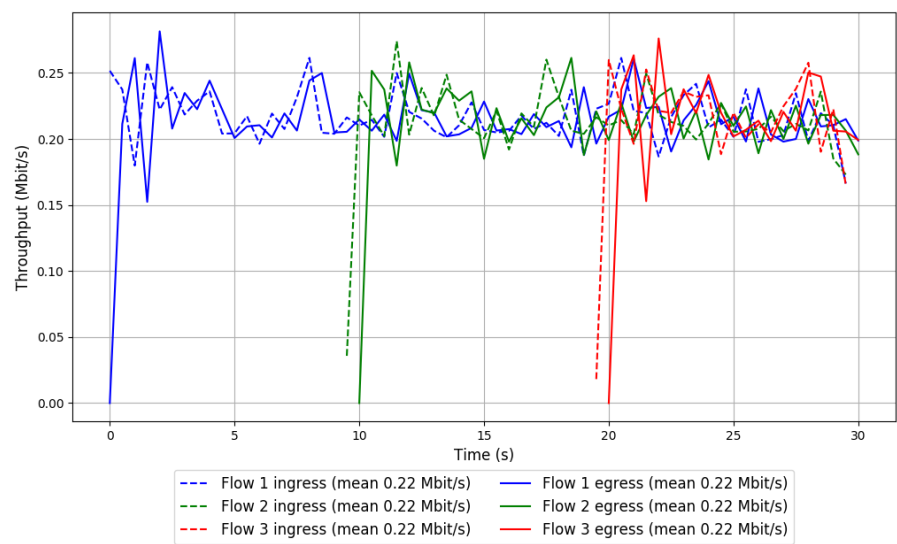


Run 1: Statistics of SReAM

Start at: 2019-12-11 20:18:46  
End at: 2019-12-11 20:19:16  
Local clock offset: -0.041 ms  
Remote clock offset: -0.158 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 62.114 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.136 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 59.897 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 59.675 ms  
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

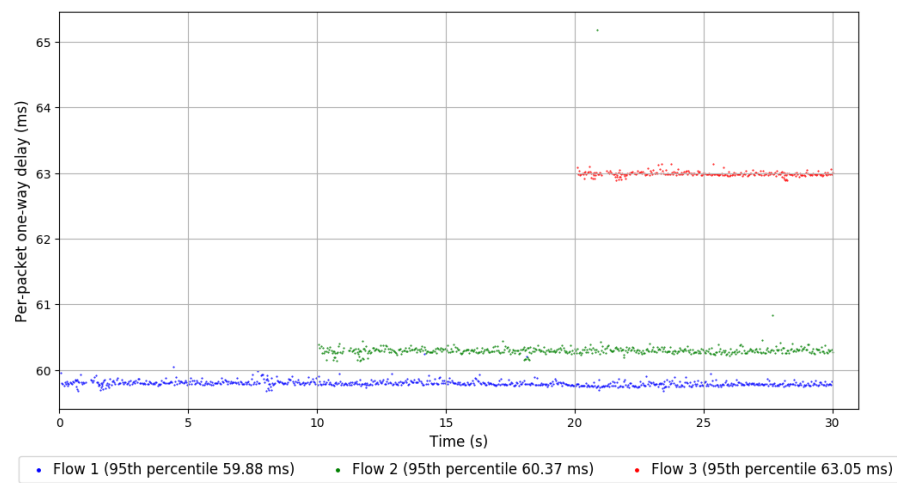
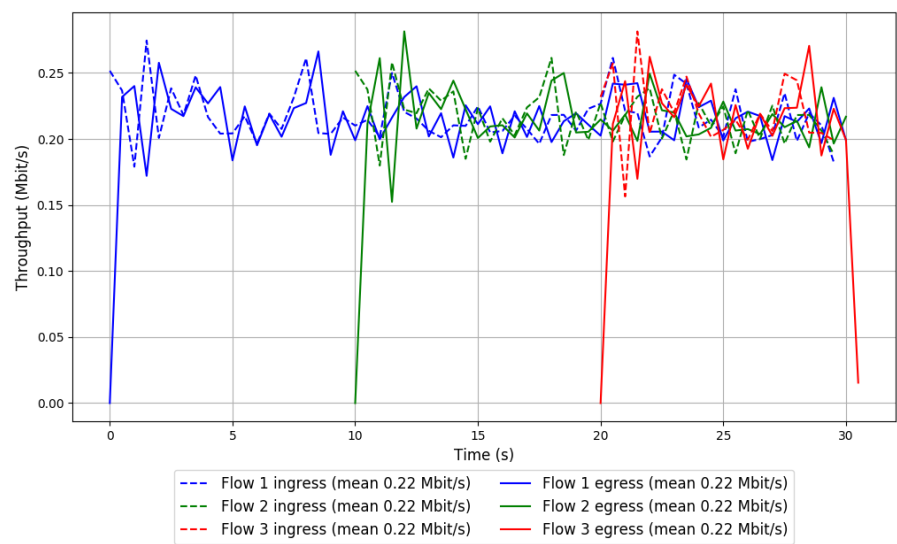


Run 2: Statistics of SReAM

Start at: 2019-12-11 20:59:48  
End at: 2019-12-11 21:00:18  
Local clock offset: -0.023 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 63.003 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 59.875 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.373 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.047 ms  
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

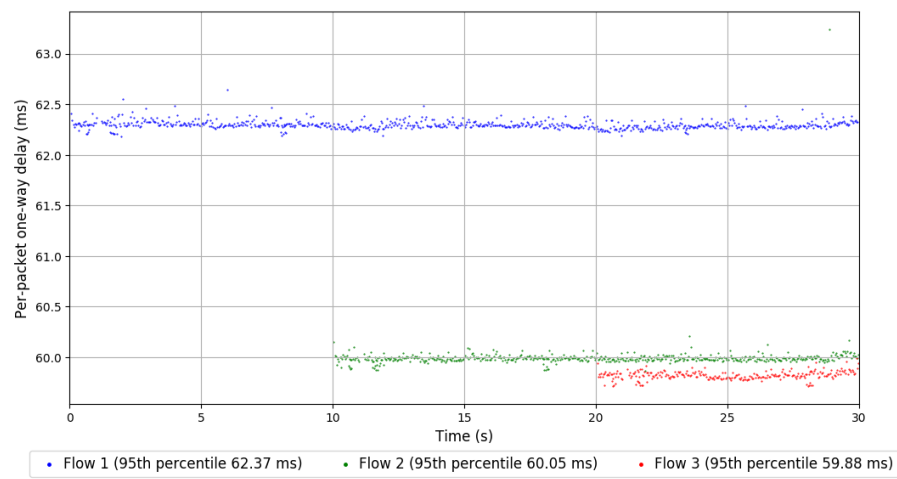
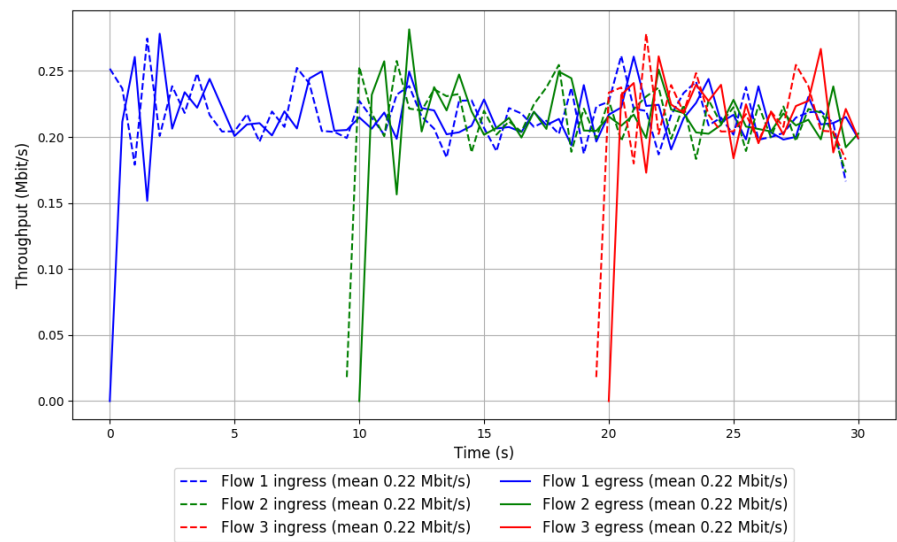


Run 3: Statistics of SReAM

Start at: 2019-12-11 21:40:57  
End at: 2019-12-11 21:41:27  
Local clock offset: -0.069 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 62.349 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 62.371 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.048 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 59.884 ms  
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link



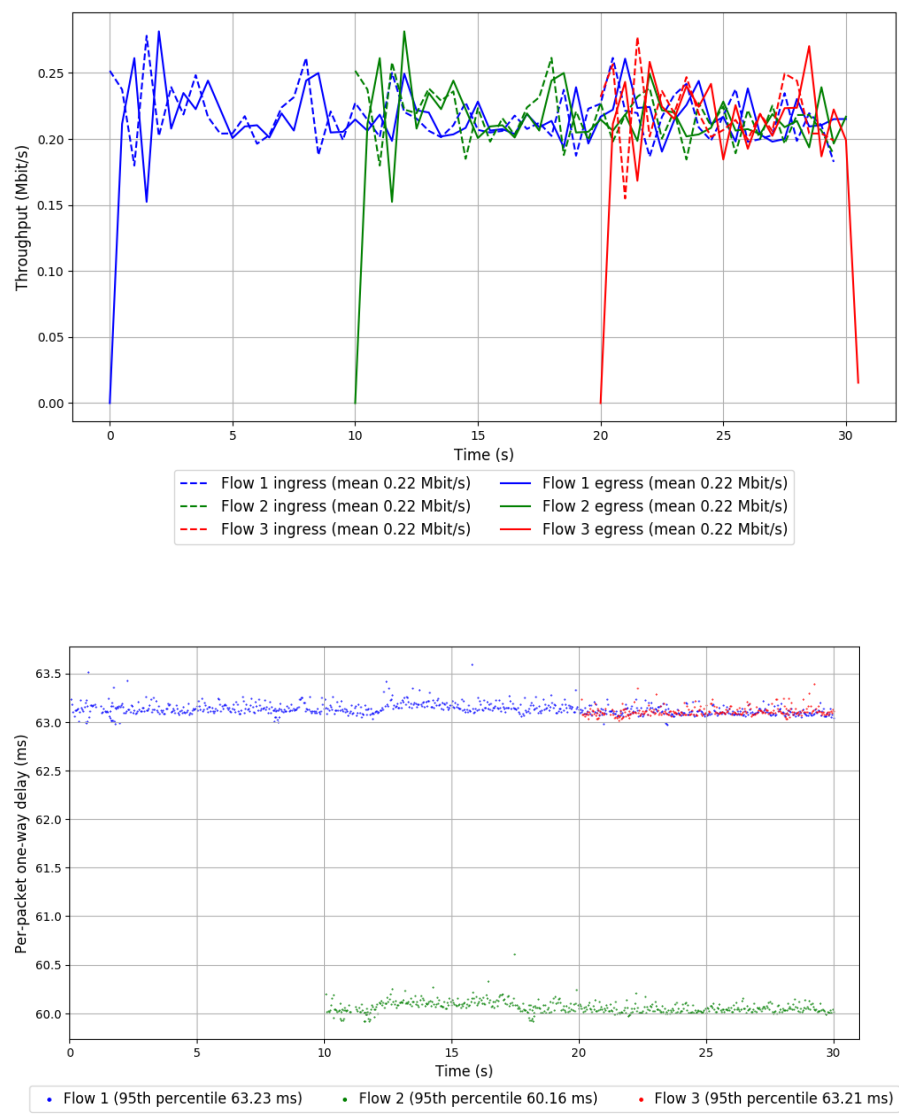


Run 4: Statistics of SReAM

Start at: 2019-12-11 22:22:02  
End at: 2019-12-11 22:22:32  
Local clock offset: 0.007 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 63.214 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.232 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.159 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 63.207 ms  
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

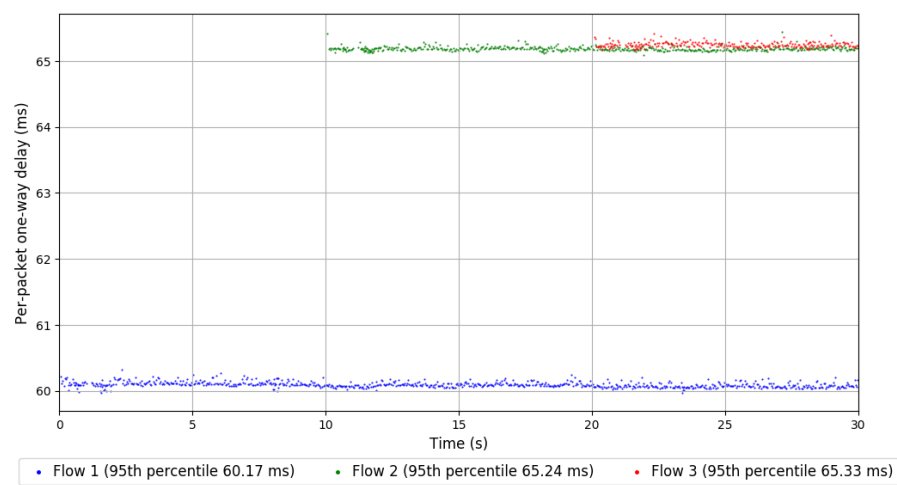
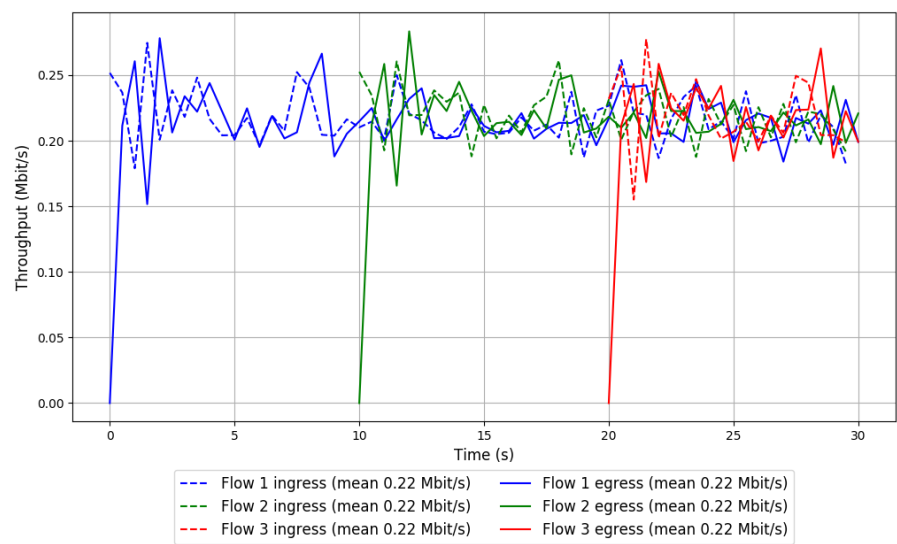


Run 5: Statistics of SReAM

Start at: 2019-12-11 23:03:08  
End at: 2019-12-11 23:03:38  
Local clock offset: -0.05 ms  
Remote clock offset: -0.202 ms

# Below is generated by plot.py at 2019-12-12 02:41:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 65.269 ms  
Loss rate: 0.06%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 60.173 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 65.240 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 65.325 ms  
Loss rate: 0.35%

Run 5: Report of SReAM — Data Link

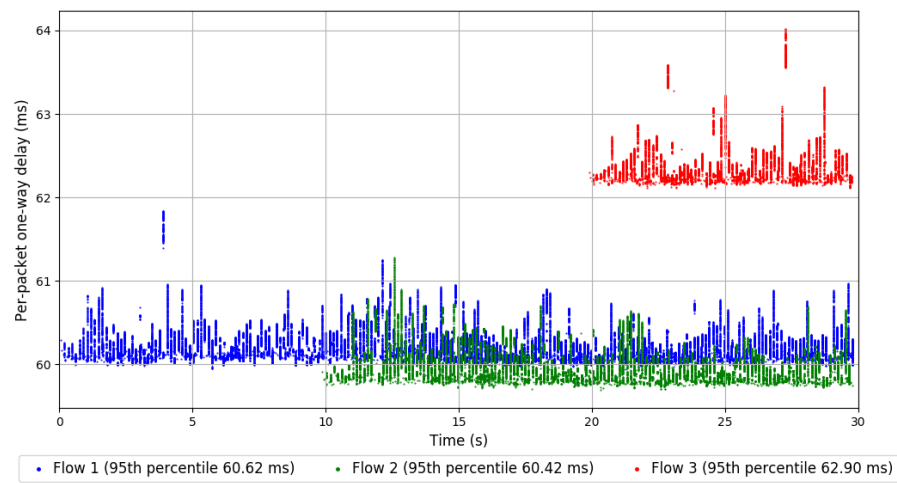
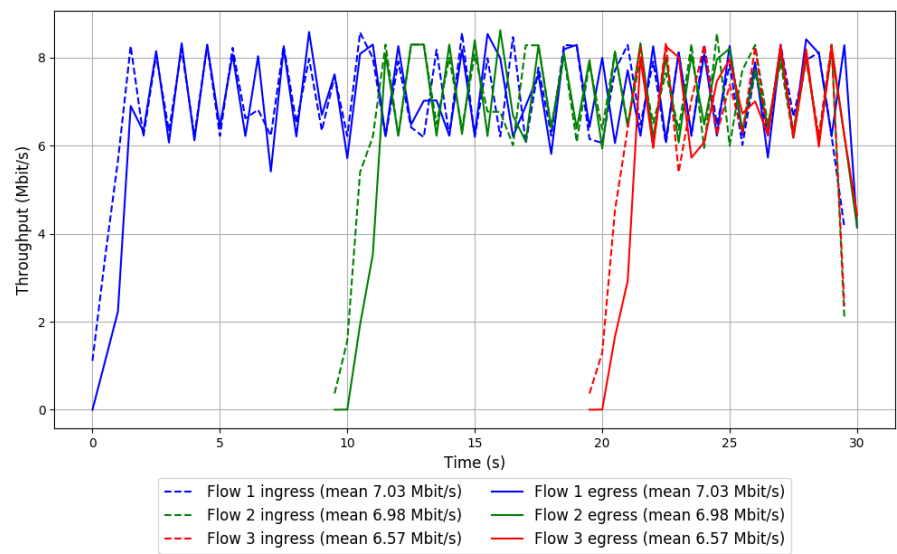


```
Run 1: Statistics of Sprout

Start at: 2019-12-11 20:35:19
End at: 2019-12-11 20:35:49
Local clock offset: -0.03 ms
Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-12-12 02:41:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.88 Mbit/s
95th percentile per-packet one-way delay: 62.412 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 60.615 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 60.421 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 62.898 ms
Loss rate: 0.00%
```

Run 1: Report of Sprout — Data Link

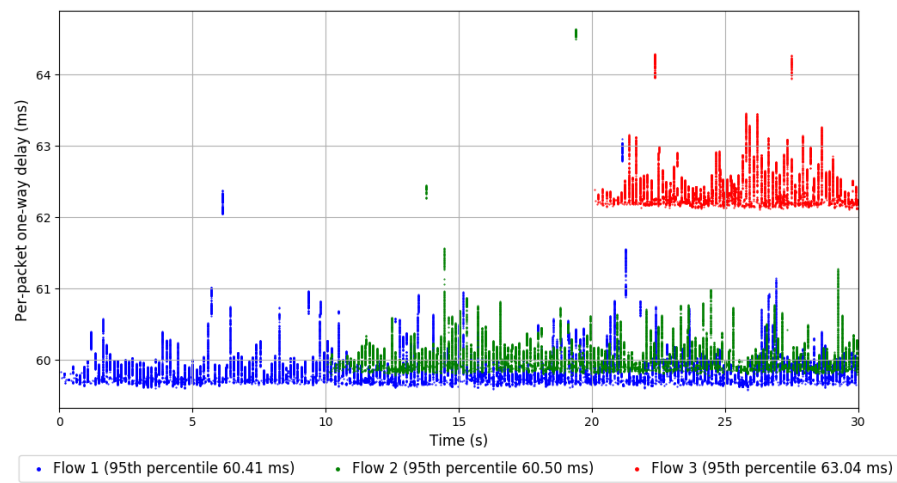
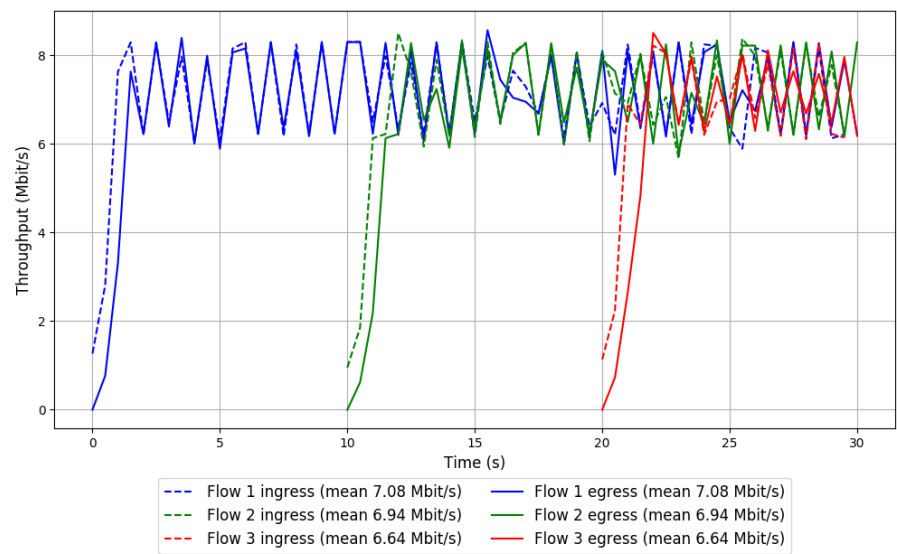


Run 2: Statistics of Sprout

Start at: 2019-12-11 21:16:24  
End at: 2019-12-11 21:16:54  
Local clock offset: -0.021 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-12-12 02:41:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.88 Mbit/s  
95th percentile per-packet one-way delay: 62.512 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.08 Mbit/s  
95th percentile per-packet one-way delay: 60.413 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.94 Mbit/s  
95th percentile per-packet one-way delay: 60.500 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.64 Mbit/s  
95th percentile per-packet one-way delay: 63.040 ms  
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link



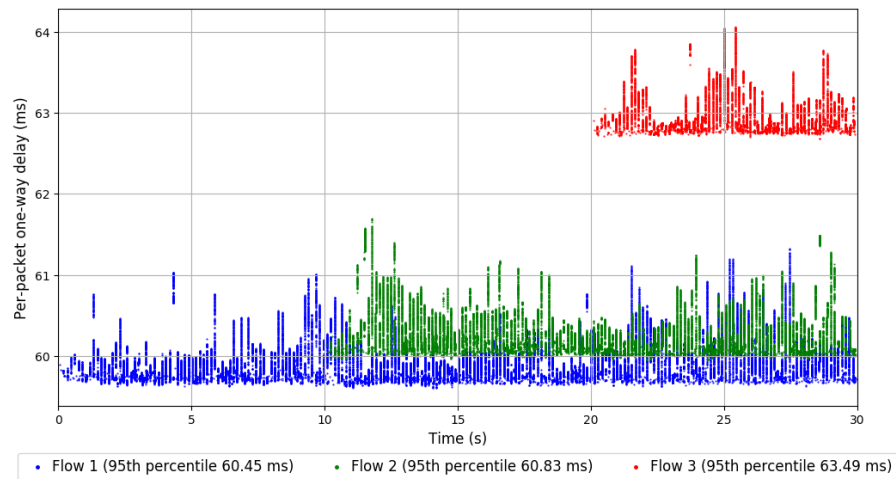
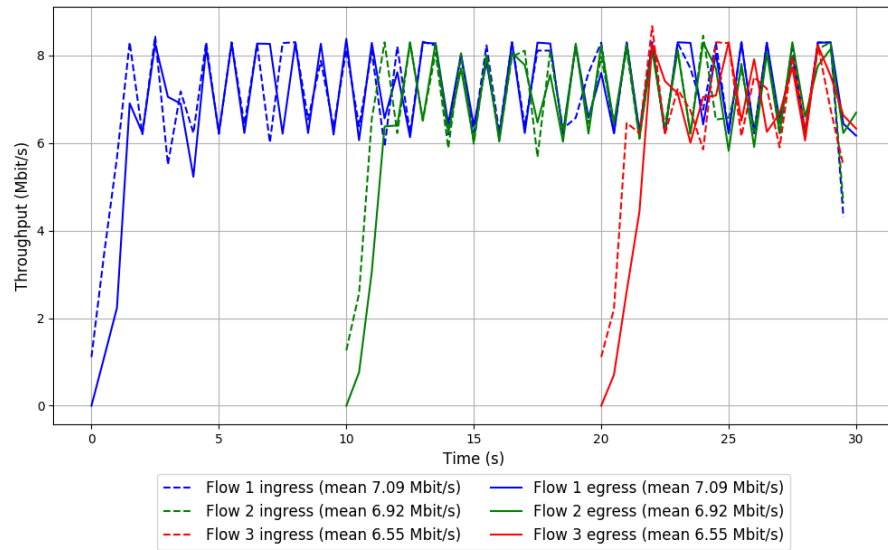


Run 3: Statistics of Sprout

Start at: 2019-12-11 21:57:27  
End at: 2019-12-11 21:57:57  
Local clock offset: -0.067 ms  
Remote clock offset: -0.193 ms

# Below is generated by plot.py at 2019-12-12 02:41:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.84 Mbit/s  
95th percentile per-packet one-way delay: 63.033 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 7.09 Mbit/s  
95th percentile per-packet one-way delay: 60.451 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.92 Mbit/s  
95th percentile per-packet one-way delay: 60.832 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.55 Mbit/s  
95th percentile per-packet one-way delay: 63.494 ms  
Loss rate: 0.00%

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

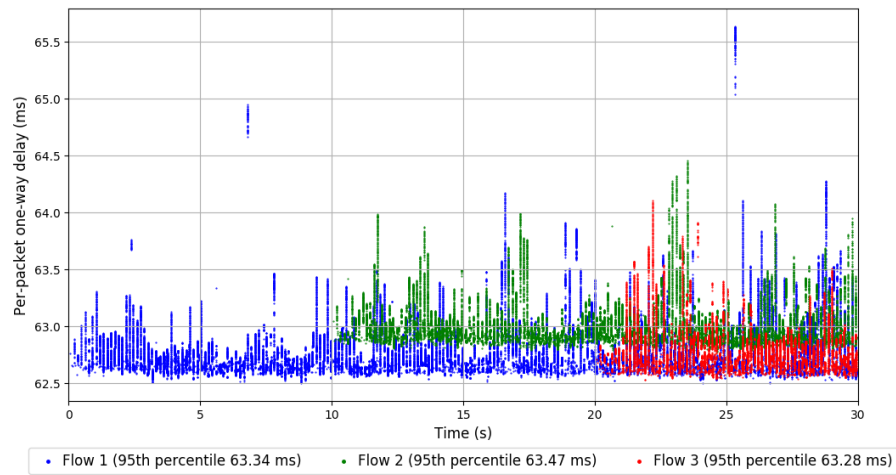
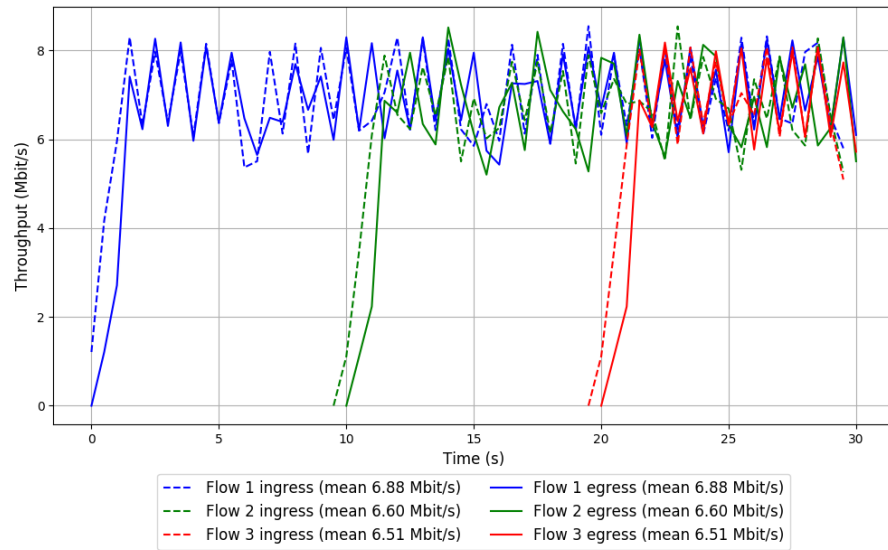


#### Run 4: Statistics of Sprout

Start at: 2019-12-11 22:38:40  
End at: 2019-12-11 22:39:10  
Local clock offset: 0.005 ms  
Remote clock offset: -0.214 ms

```
# Below is generated by plot.py at 2019-12-12 02:41:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.43 Mbit/s
95th percentile per-packet one-way delay: 63.385 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.88 Mbit/s
95th percentile per-packet one-way delay: 63.344 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 63.465 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 63.278 ms
Loss rate: 0.00%
```

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

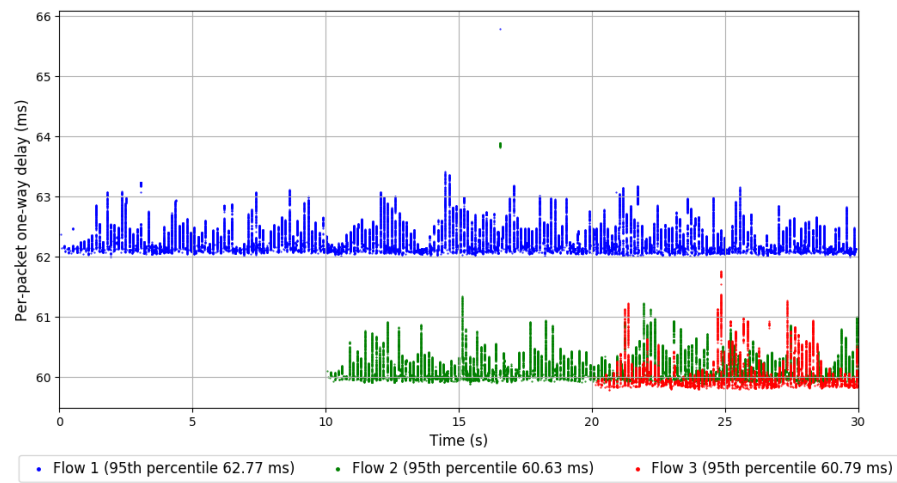
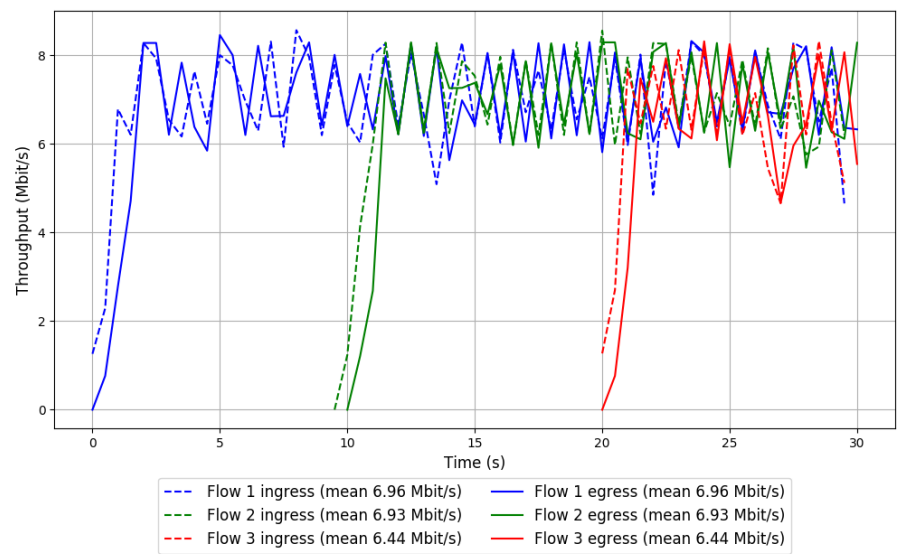


Run 5: Statistics of Sprout

Start at: 2019-12-11 23:19:51  
End at: 2019-12-11 23:20:21  
Local clock offset: -0.028 ms  
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-12-12 02:41:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 13.69 Mbit/s  
95th percentile per-packet one-way delay: 62.635 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 6.96 Mbit/s  
95th percentile per-packet one-way delay: 62.774 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 6.93 Mbit/s  
95th percentile per-packet one-way delay: 60.628 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 6.44 Mbit/s  
95th percentile per-packet one-way delay: 60.787 ms  
Loss rate: 0.00%

Run 5: Report of Sprout — Data Link

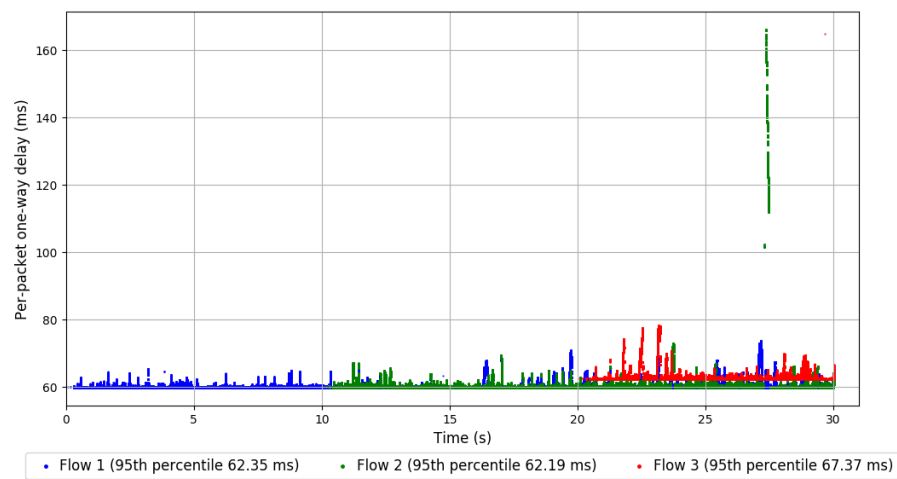
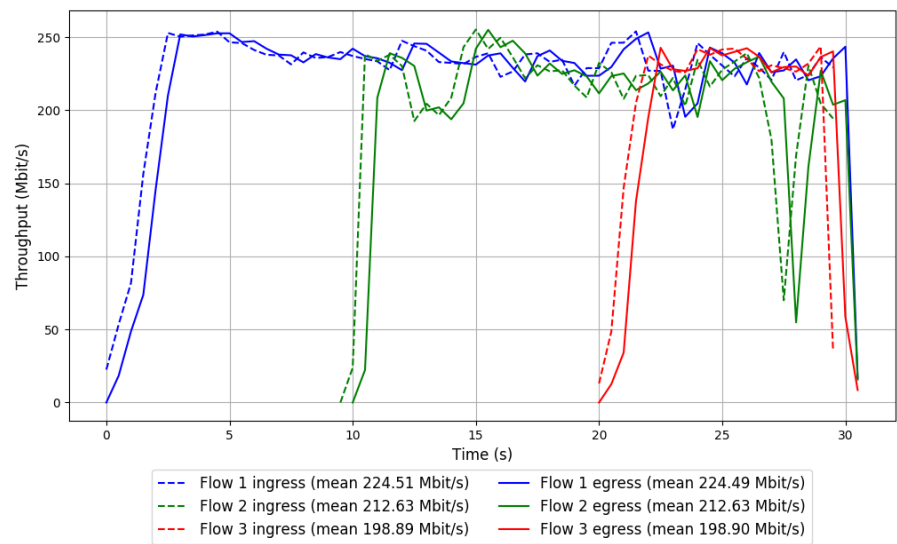


```
Run 1: Statistics of TaoVA-100x

Start at: 2019-12-11 20:43:46
End at: 2019-12-11 20:44:16
Local clock offset: 0.004 ms
Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-12-12 02:44:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 432.18 Mbit/s
95th percentile per-packet one-way delay: 63.344 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 224.49 Mbit/s
95th percentile per-packet one-way delay: 62.355 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 212.63 Mbit/s
95th percentile per-packet one-way delay: 62.188 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 198.90 Mbit/s
95th percentile per-packet one-way delay: 67.367 ms
Loss rate: 0.00%
```

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



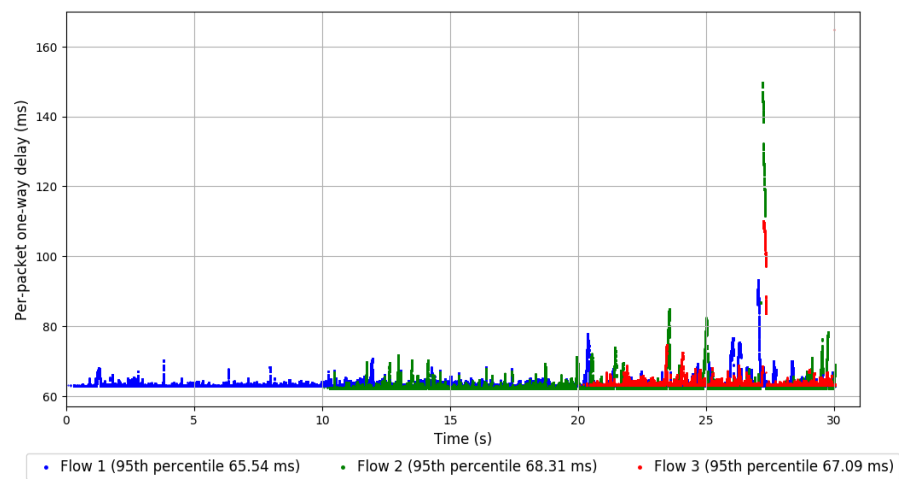
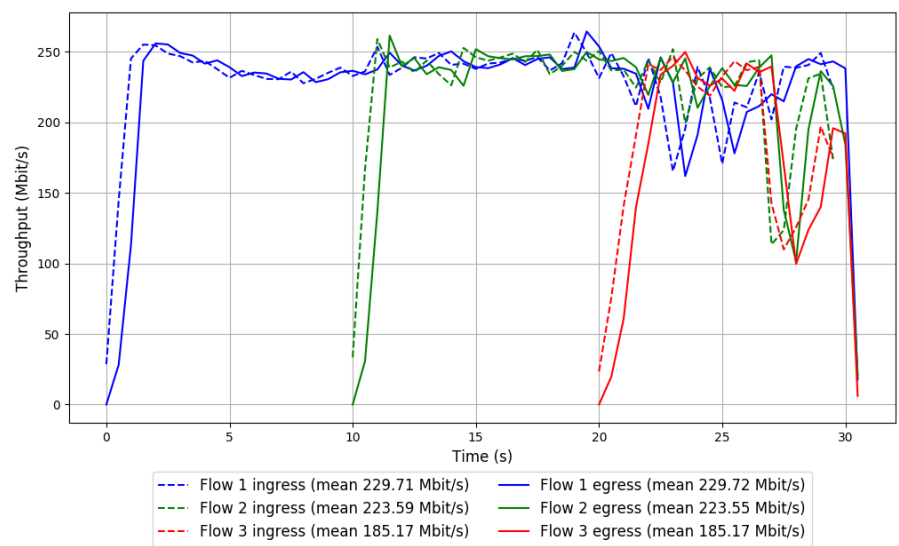


Run 2: Statistics of TaoVA-100x

Start at: 2019-12-11 21:24:56  
End at: 2019-12-11 21:25:26  
Local clock offset: -0.052 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-12-12 02:46:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 440.06 Mbit/s  
95th percentile per-packet one-way delay: 66.615 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 229.72 Mbit/s  
95th percentile per-packet one-way delay: 65.542 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 223.55 Mbit/s  
95th percentile per-packet one-way delay: 68.307 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 185.17 Mbit/s  
95th percentile per-packet one-way delay: 67.094 ms  
Loss rate: 0.00%

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

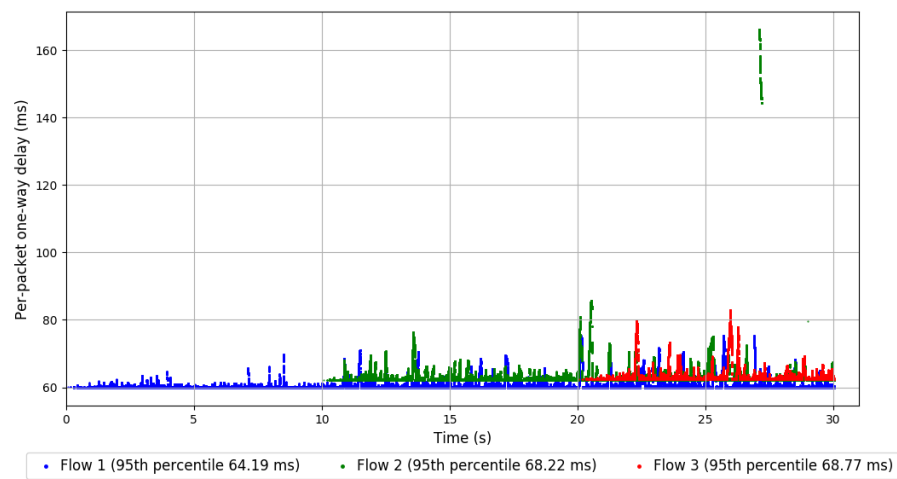
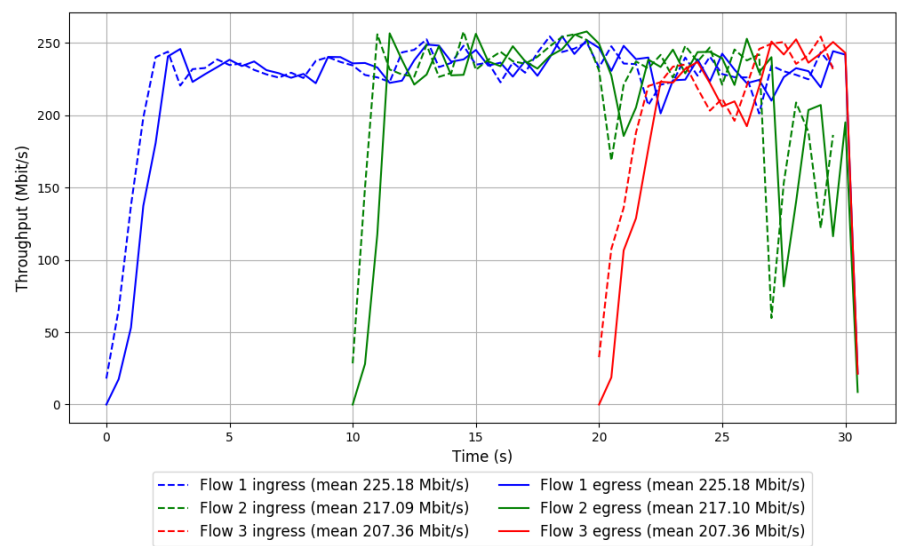


Run 3: Statistics of TaoVA-100x

Start at: 2019-12-11 22:06:00  
End at: 2019-12-11 22:06:30  
Local clock offset: -0.078 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-12-12 02:46:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 438.67 Mbit/s  
95th percentile per-packet one-way delay: 66.481 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 225.18 Mbit/s  
95th percentile per-packet one-way delay: 64.189 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 217.10 Mbit/s  
95th percentile per-packet one-way delay: 68.221 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 207.36 Mbit/s  
95th percentile per-packet one-way delay: 68.765 ms  
Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2019-12-11 22:46:54

End at: 2019-12-11 22:47:24

Local clock offset: 0.005 ms

Remote clock offset: -0.16 ms

# Below is generated by plot.py at 2019-12-12 02:46:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 450.15 Mbit/s

95th percentile per-packet one-way delay: 63.884 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 229.48 Mbit/s

95th percentile per-packet one-way delay: 62.794 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 222.52 Mbit/s

95th percentile per-packet one-way delay: 64.428 ms

Loss rate: 0.02%

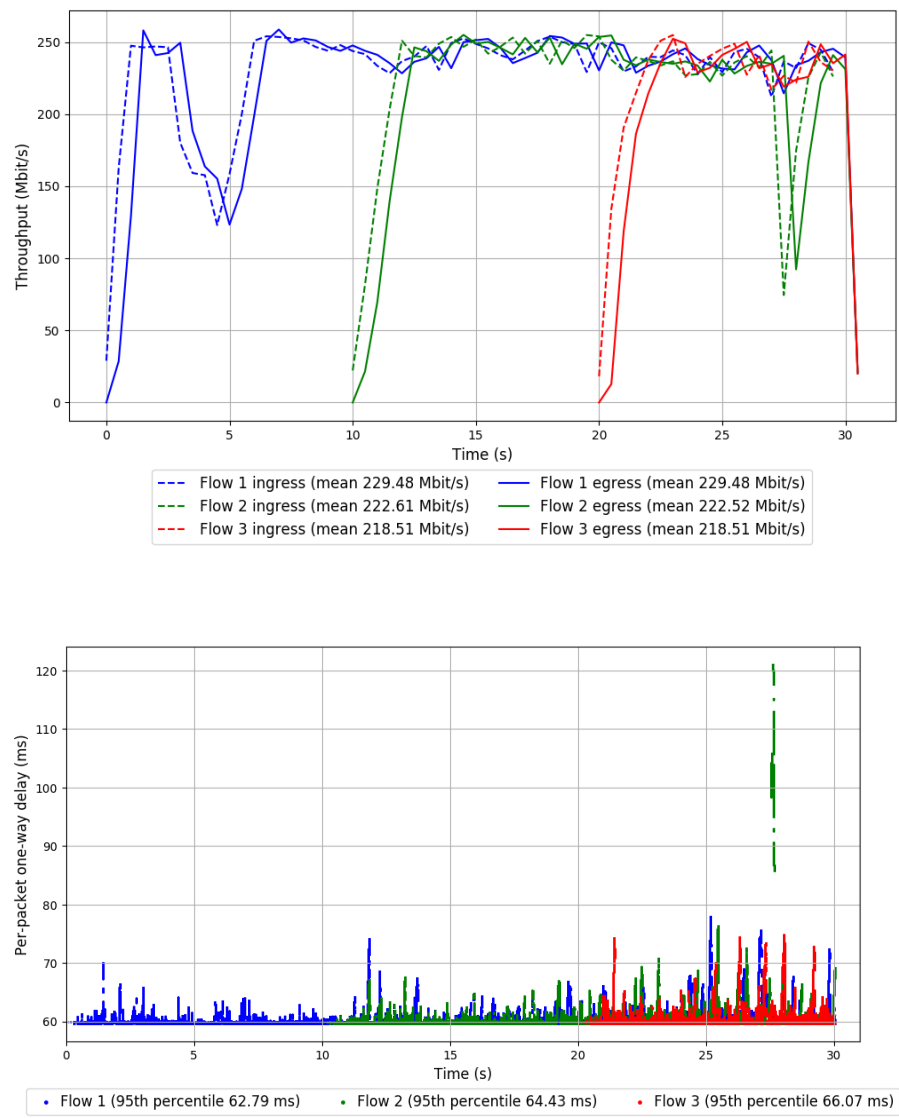
-- Flow 3:

Average throughput: 218.51 Mbit/s

95th percentile per-packet one-way delay: 66.069 ms

Loss rate: 0.00%

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

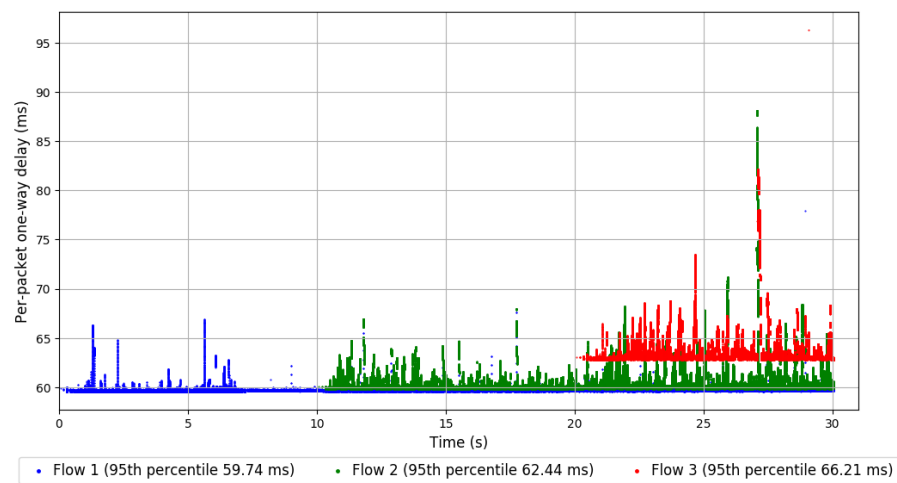
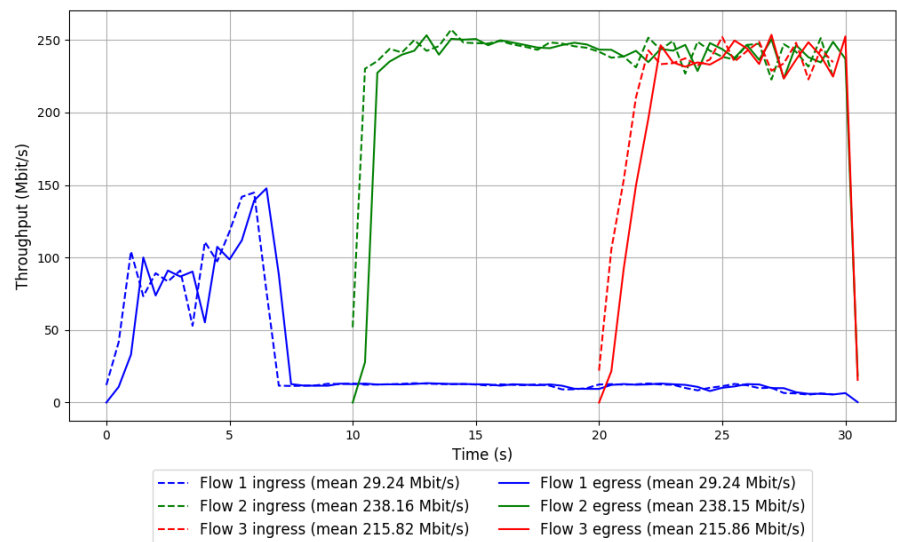


Run 5: Statistics of TaoVA-100x

Start at: 2019-12-11 23:28:26  
End at: 2019-12-11 23:28:56  
Local clock offset: -0.054 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-12-12 02:46:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 259.56 Mbit/s  
95th percentile per-packet one-way delay: 64.322 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 29.24 Mbit/s  
95th percentile per-packet one-way delay: 59.739 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 238.15 Mbit/s  
95th percentile per-packet one-way delay: 62.444 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 215.86 Mbit/s  
95th percentile per-packet one-way delay: 66.207 ms  
Loss rate: 0.01%

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



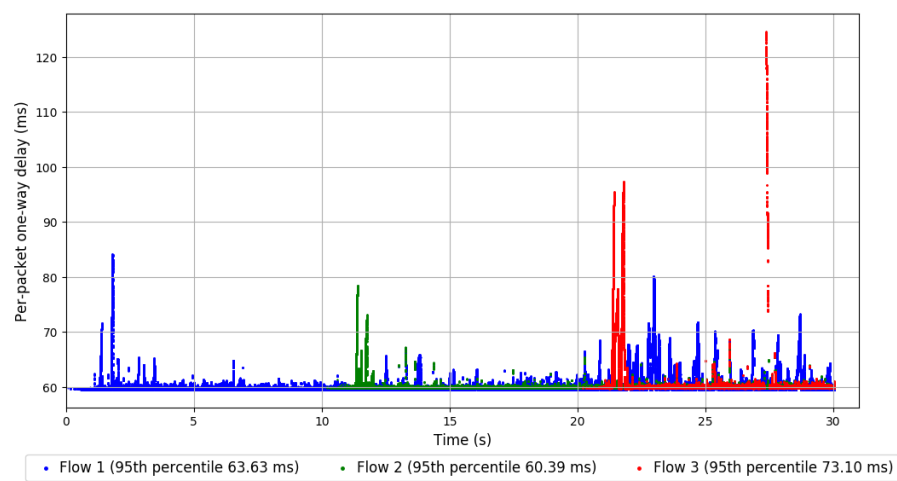
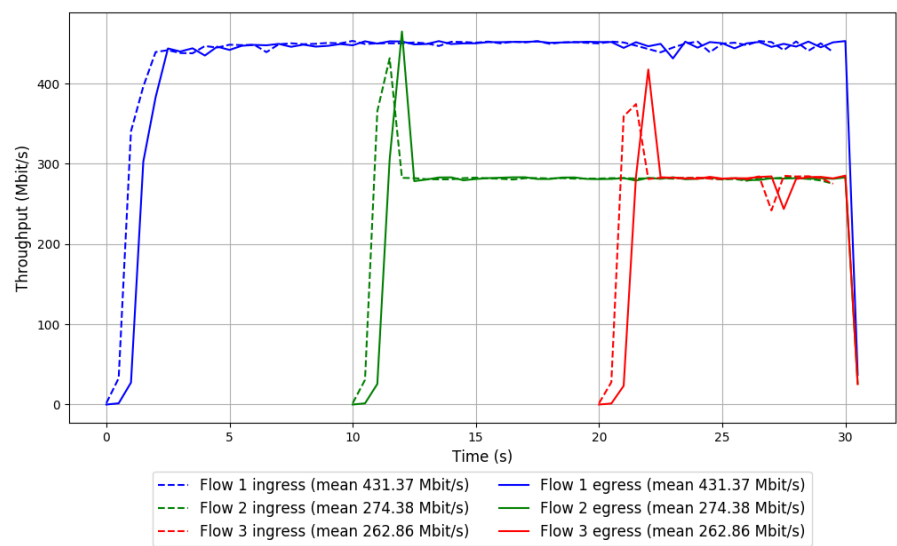


Run 1: Statistics of TCP Vegas

Start at: 2019-12-11 20:10:33  
End at: 2019-12-11 20:11:03  
Local clock offset: -0.063 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-12-12 02:46:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 701.48 Mbit/s  
95th percentile per-packet one-way delay: 63.238 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 431.37 Mbit/s  
95th percentile per-packet one-way delay: 63.630 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 274.38 Mbit/s  
95th percentile per-packet one-way delay: 60.391 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 262.86 Mbit/s  
95th percentile per-packet one-way delay: 73.100 ms  
Loss rate: 0.00%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-12-11 20:51:29

End at: 2019-12-11 20:51:59

Local clock offset: 0.039 ms

Remote clock offset: 0.05 ms

# Below is generated by plot.py at 2019-12-12 02:51:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 596.88 Mbit/s

95th percentile per-packet one-way delay: 73.563 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 178.57 Mbit/s

95th percentile per-packet one-way delay: 63.503 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 426.58 Mbit/s

95th percentile per-packet one-way delay: 70.031 ms

Loss rate: 0.00%

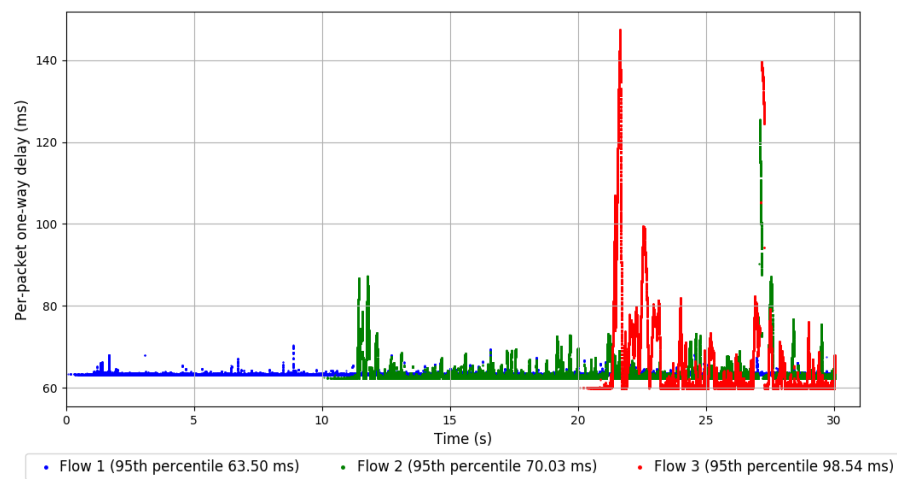
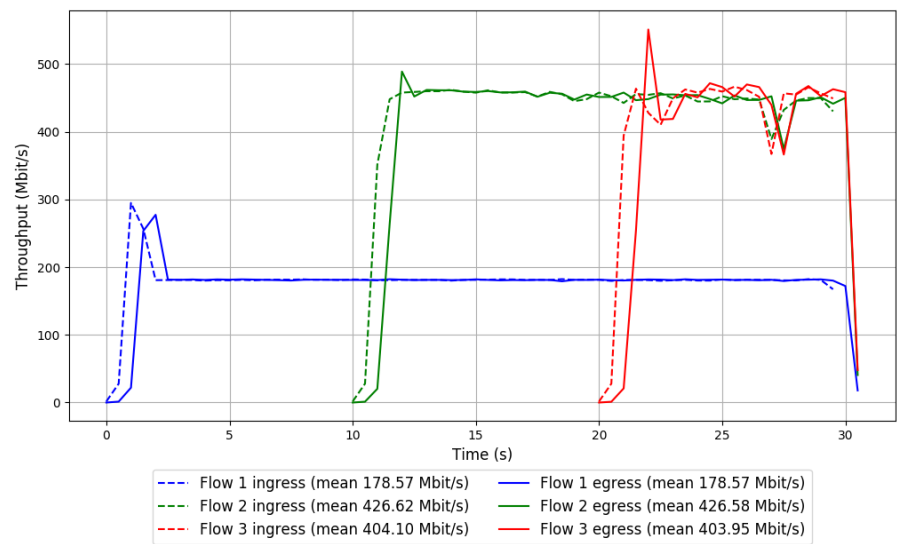
-- Flow 3:

Average throughput: 403.95 Mbit/s

95th percentile per-packet one-way delay: 98.540 ms

Loss rate: 0.01%

Run 2: Report of TCP Vegas — Data Link

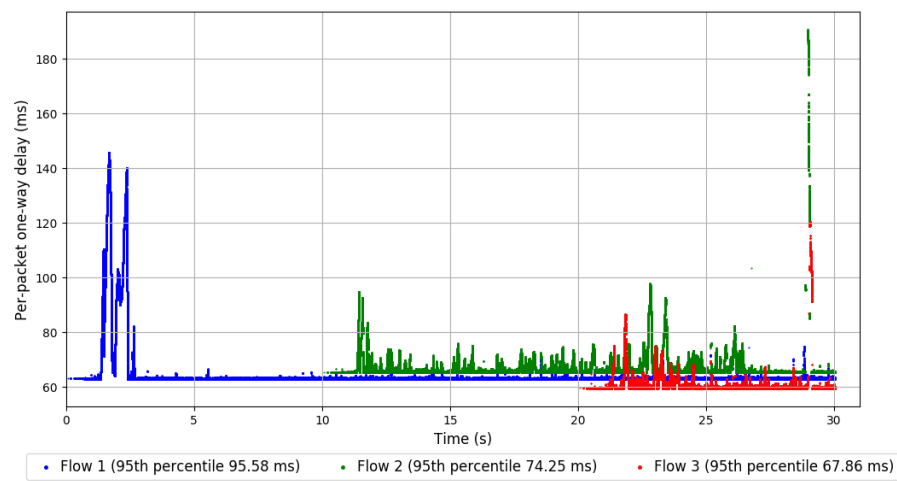
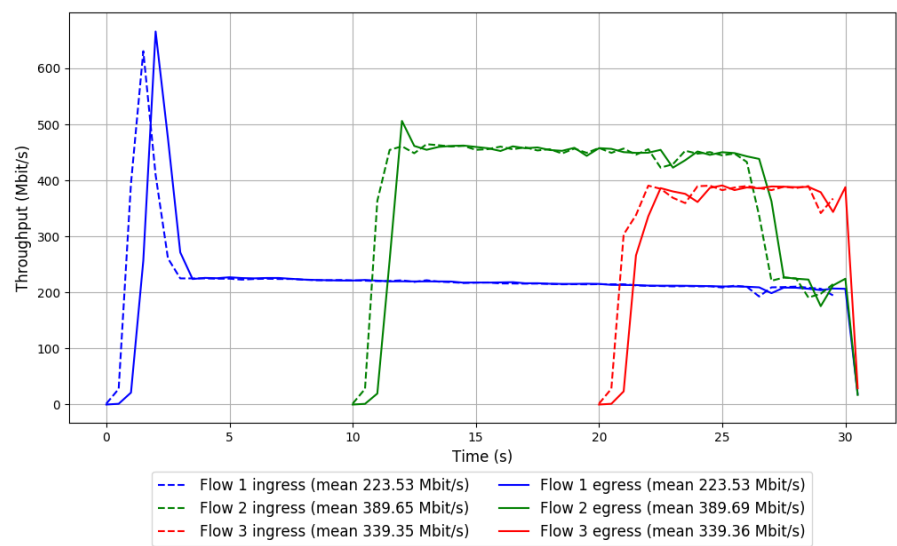


Run 3: Statistics of TCP Vegas

Start at: 2019-12-11 21:32:43  
End at: 2019-12-11 21:33:13  
Local clock offset: -0.04 ms  
Remote clock offset: -0.093 ms

# Below is generated by plot.py at 2019-12-12 02:51:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 595.74 Mbit/s  
95th percentile per-packet one-way delay: 75.341 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 223.53 Mbit/s  
95th percentile per-packet one-way delay: 95.575 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 389.69 Mbit/s  
95th percentile per-packet one-way delay: 74.255 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 339.36 Mbit/s  
95th percentile per-packet one-way delay: 67.857 ms  
Loss rate: 0.00%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-12-11 22:13:43

End at: 2019-12-11 22:14:13

Local clock offset: -0.006 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-12-12 02:53:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 603.47 Mbit/s

95th percentile per-packet one-way delay: 78.553 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 386.43 Mbit/s

95th percentile per-packet one-way delay: 80.540 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.57 Mbit/s

95th percentile per-packet one-way delay: 62.629 ms

Loss rate: 0.00%

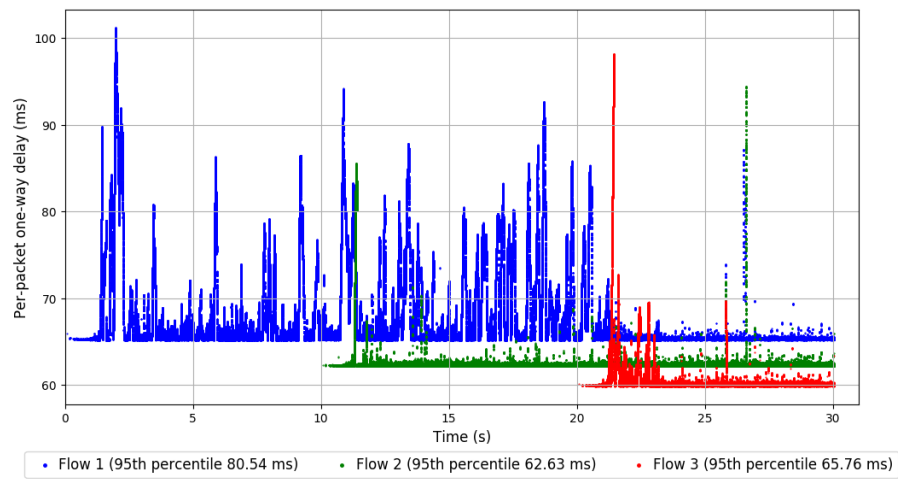
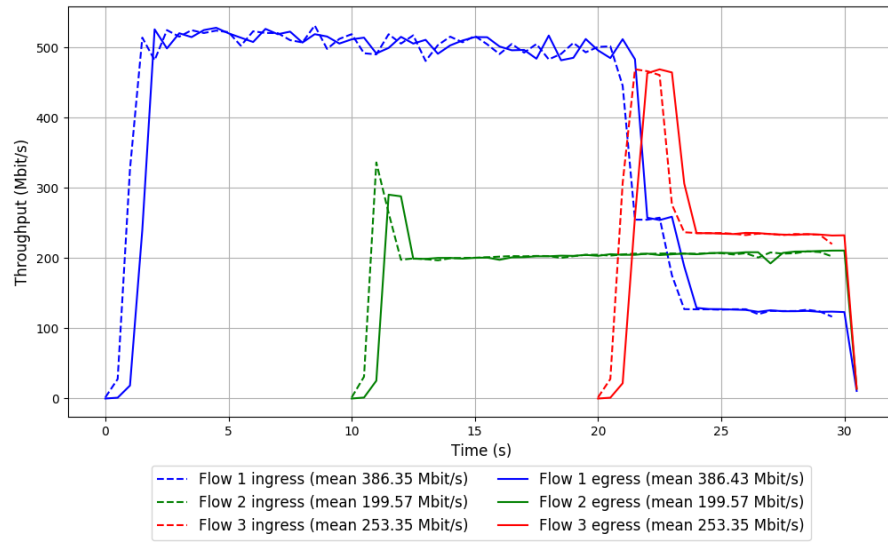
-- Flow 3:

Average throughput: 253.35 Mbit/s

95th percentile per-packet one-way delay: 65.764 ms

Loss rate: 0.00%

# Run 4: Report of TCP Vegas — Data Link





Run 5: Statistics of TCP Vegas

Start at: 2019-12-11 22:54:38

End at: 2019-12-11 22:55:08

Local clock offset: -0.024 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-12-12 03:00:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 797.00 Mbit/s

95th percentile per-packet one-way delay: 78.352 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 438.49 Mbit/s

95th percentile per-packet one-way delay: 76.698 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 425.07 Mbit/s

95th percentile per-packet one-way delay: 80.070 ms

Loss rate: 0.00%

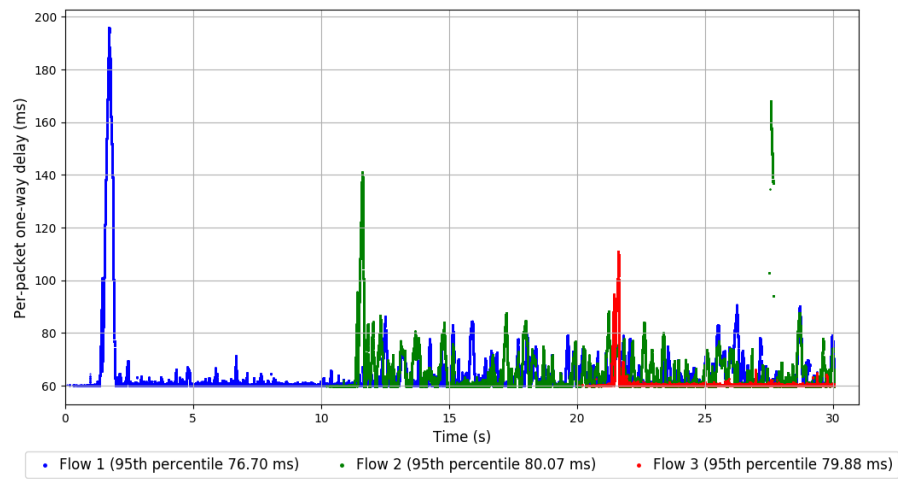
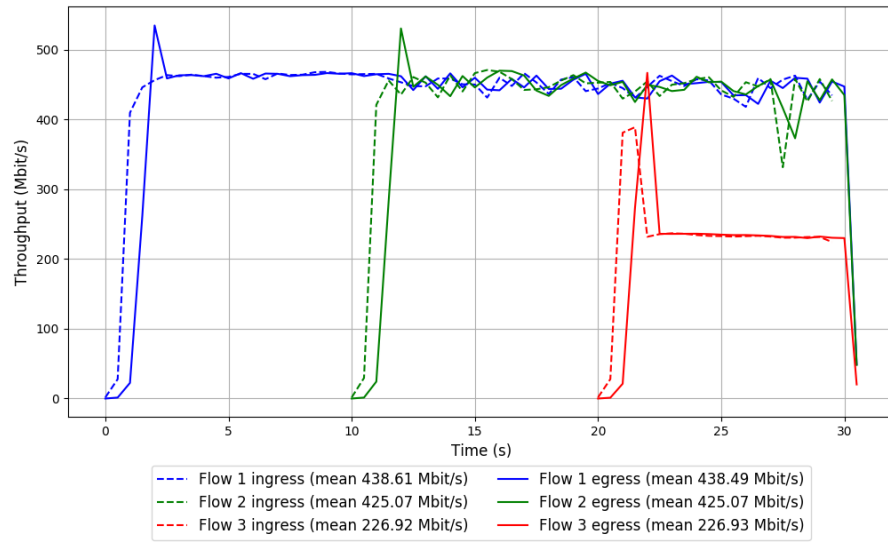
-- Flow 3:

Average throughput: 226.93 Mbit/s

95th percentile per-packet one-way delay: 79.884 ms

Loss rate: 0.00%

# Run 5: Report of TCP Vegas — Data Link

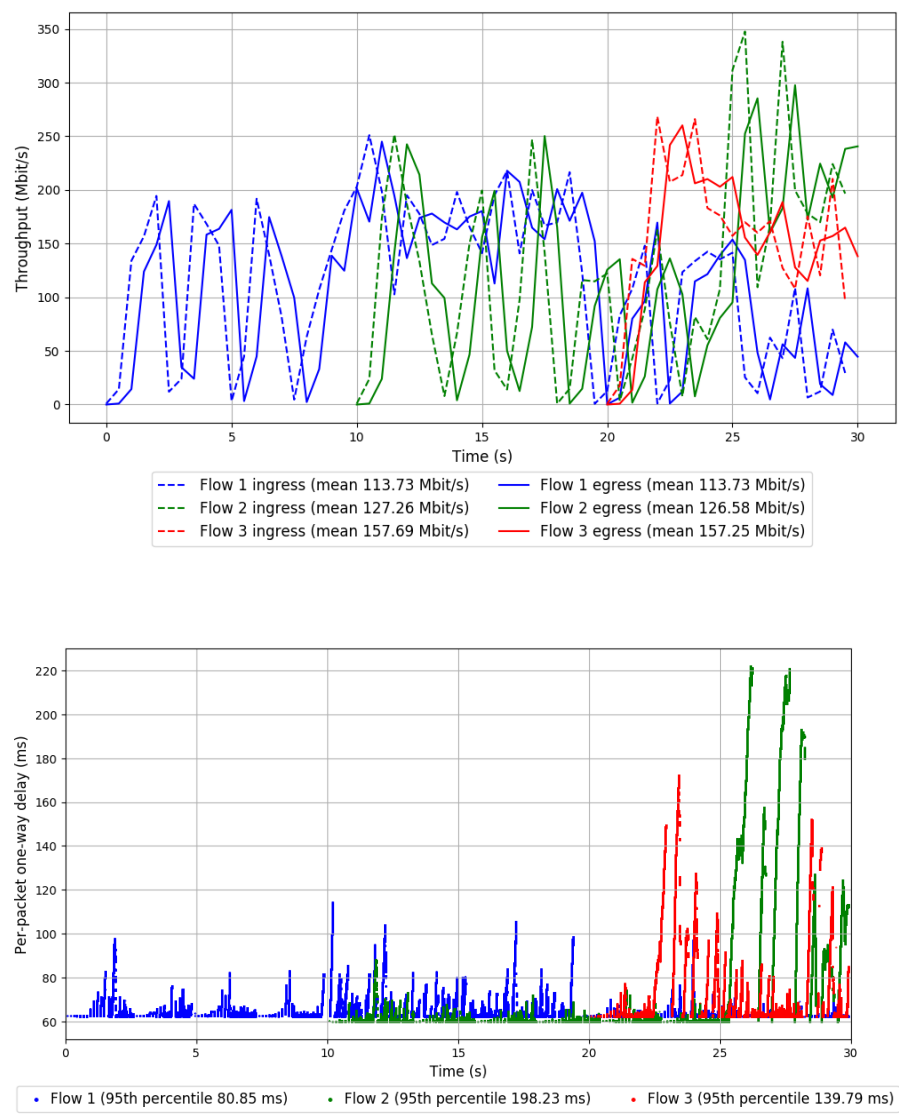


Run 1: Statistics of Verus

Start at: 2019-12-11 20:17:09  
End at: 2019-12-11 20:17:39  
Local clock offset: -0.077 ms  
Remote clock offset: -0.103 ms

# Below is generated by plot.py at 2019-12-12 03:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 249.63 Mbit/s  
95th percentile per-packet one-way delay: 150.986 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 113.73 Mbit/s  
95th percentile per-packet one-way delay: 80.849 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 126.58 Mbit/s  
95th percentile per-packet one-way delay: 198.228 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 157.25 Mbit/s  
95th percentile per-packet one-way delay: 139.787 ms  
Loss rate: 0.10%

Run 1: Report of Verus — Data Link

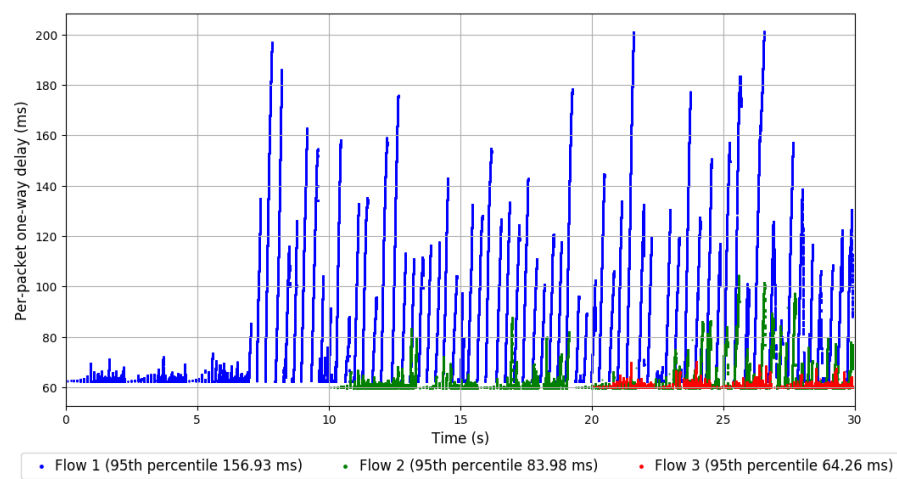
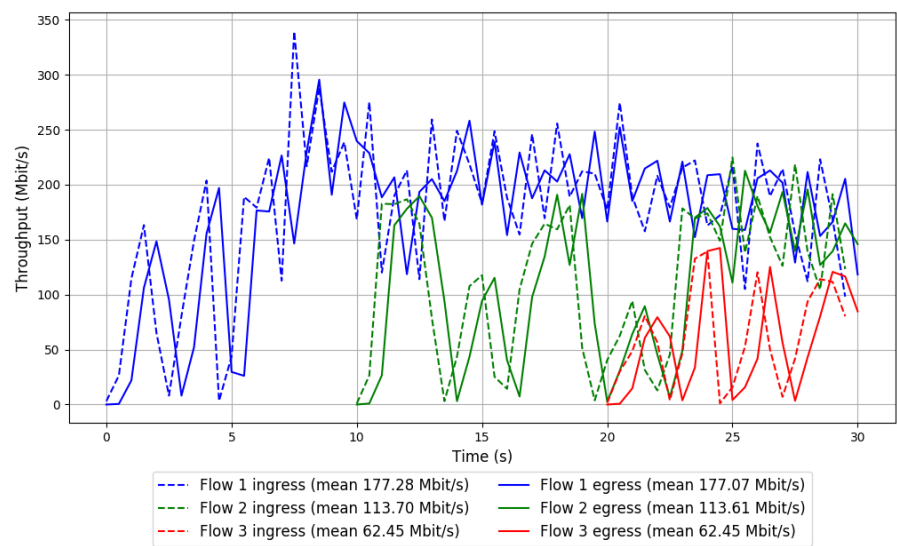


Run 2: Statistics of Verus

Start at: 2019-12-11 20:58:09  
End at: 2019-12-11 20:58:39  
Local clock offset: -0.019 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-12-12 03:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 273.15 Mbit/s  
95th percentile per-packet one-way delay: 146.840 ms  
Loss rate: 0.05%  
-- Flow 1:  
Average throughput: 177.07 Mbit/s  
95th percentile per-packet one-way delay: 156.925 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 113.61 Mbit/s  
95th percentile per-packet one-way delay: 83.985 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 62.45 Mbit/s  
95th percentile per-packet one-way delay: 64.260 ms  
Loss rate: 0.00%

Run 2: Report of Verus — Data Link

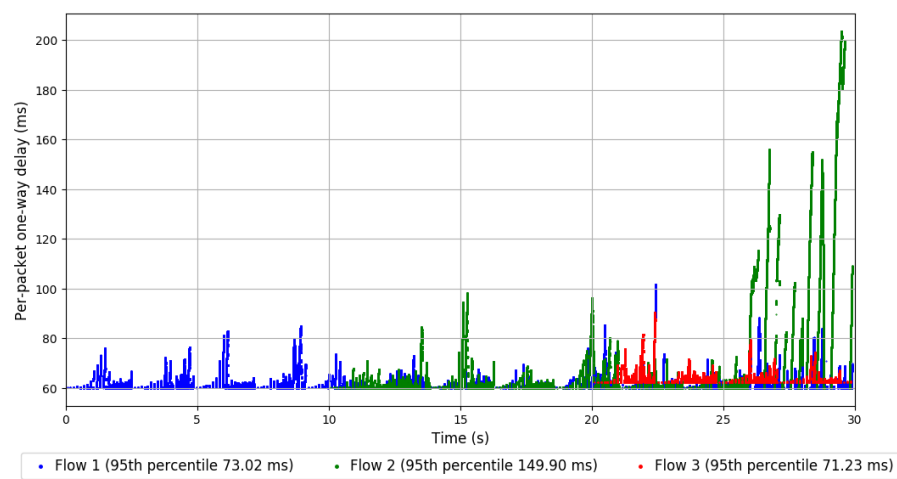
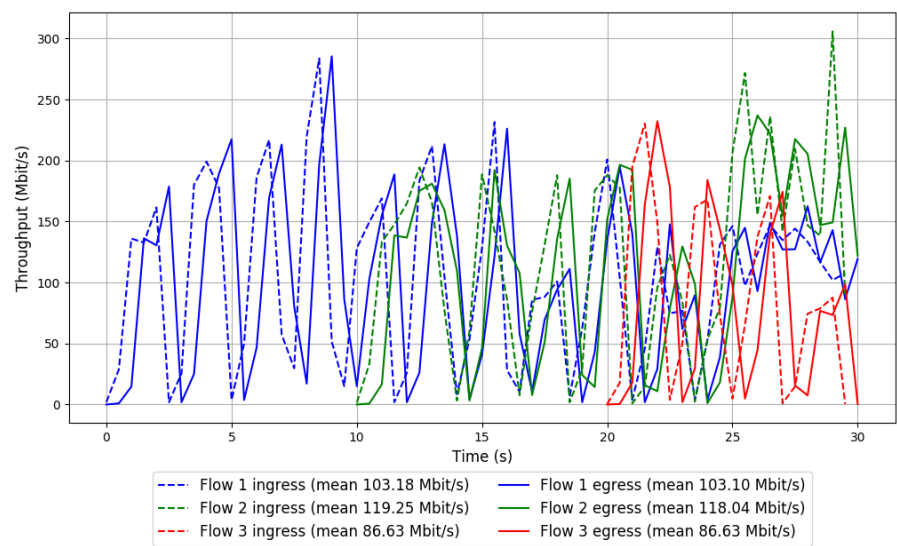


Run 3: Statistics of Verus

Start at: 2019-12-11 21:39:24  
End at: 2019-12-11 21:39:54  
Local clock offset: -0.065 ms  
Remote clock offset: 0.186 ms

# Below is generated by plot.py at 2019-12-12 03:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 209.80 Mbit/s  
95th percentile per-packet one-way delay: 105.900 ms  
Loss rate: 0.41%  
-- Flow 1:  
Average throughput: 103.10 Mbit/s  
95th percentile per-packet one-way delay: 73.016 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 118.04 Mbit/s  
95th percentile per-packet one-way delay: 149.903 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 86.63 Mbit/s  
95th percentile per-packet one-way delay: 71.230 ms  
Loss rate: 0.00%

Run 3: Report of Verus — Data Link





Run 4: Statistics of Verus

Start at: 2019-12-11 22:20:22

End at: 2019-12-11 22:20:52

Local clock offset: -0.032 ms

Remote clock offset: -0.12 ms

# Below is generated by plot.py at 2019-12-12 03:00:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 275.89 Mbit/s

95th percentile per-packet one-way delay: 167.266 ms

Loss rate: 0.58%

-- Flow 1:

Average throughput: 161.99 Mbit/s

95th percentile per-packet one-way delay: 167.492 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 140.06 Mbit/s

95th percentile per-packet one-way delay: 175.319 ms

Loss rate: 0.97%

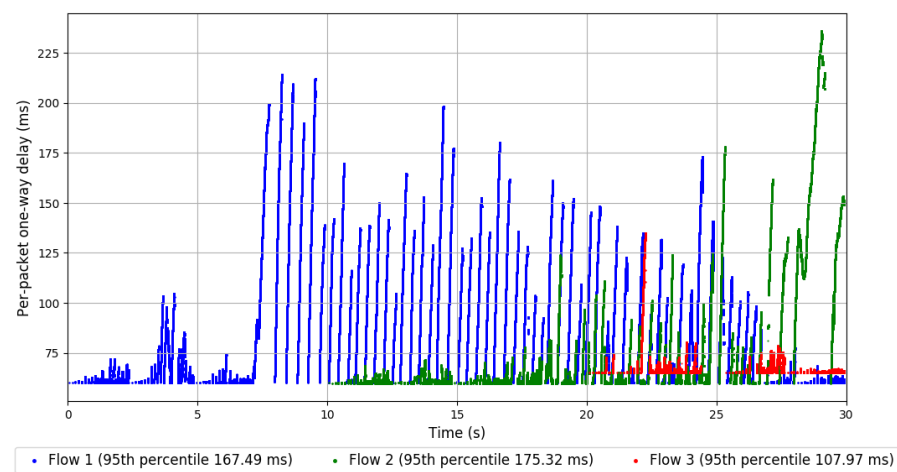
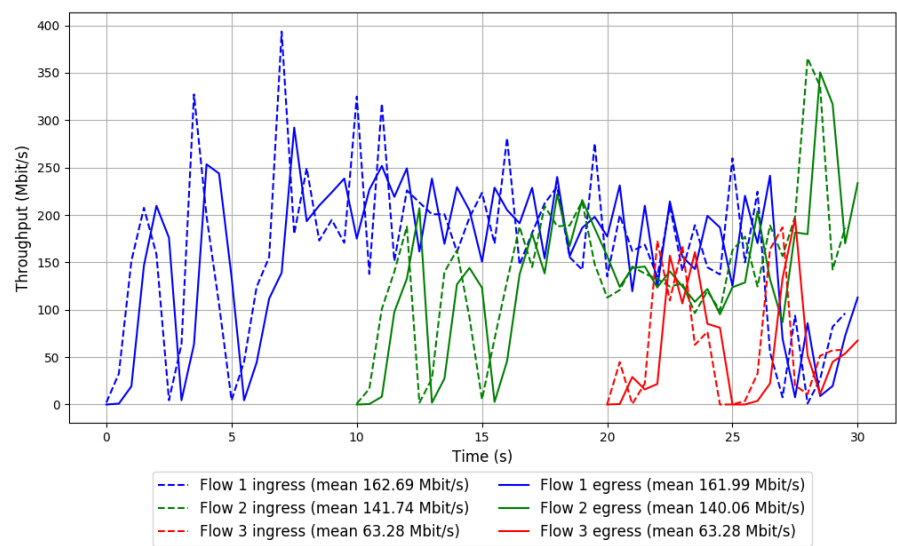
-- Flow 3:

Average throughput: 63.28 Mbit/s

95th percentile per-packet one-way delay: 107.970 ms

Loss rate: 0.00%

Run 4: Report of Verus — Data Link

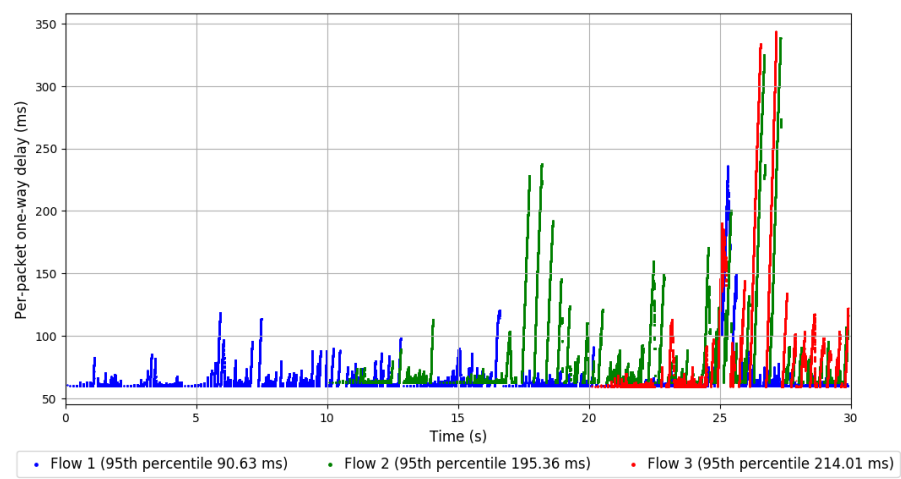
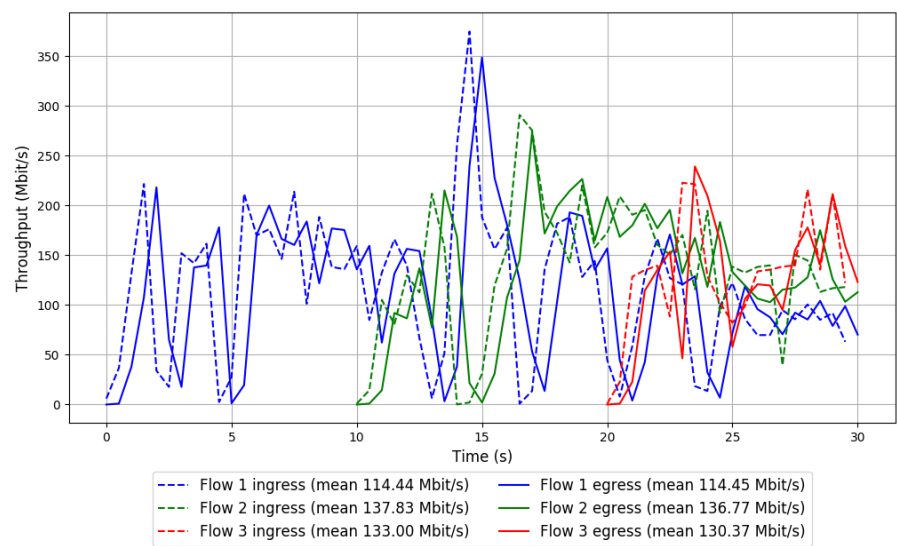


Run 5: Statistics of Verus

Start at: 2019-12-11 23:01:29  
End at: 2019-12-11 23:01:59  
Local clock offset: -0.053 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-12-12 03:00:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 248.11 Mbit/s  
95th percentile per-packet one-way delay: 160.407 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 114.45 Mbit/s  
95th percentile per-packet one-way delay: 90.634 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 136.77 Mbit/s  
95th percentile per-packet one-way delay: 195.358 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 130.37 Mbit/s  
95th percentile per-packet one-way delay: 214.010 ms  
Loss rate: 1.95%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-12-11 20:23:35

End at: 2019-12-11 20:24:05

Local clock offset: -0.04 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-12-12 03:00:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 273.38 Mbit/s

95th percentile per-packet one-way delay: 68.439 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 52.86 Mbit/s

95th percentile per-packet one-way delay: 63.193 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 249.91 Mbit/s

95th percentile per-packet one-way delay: 71.224 ms

Loss rate: 0.00%

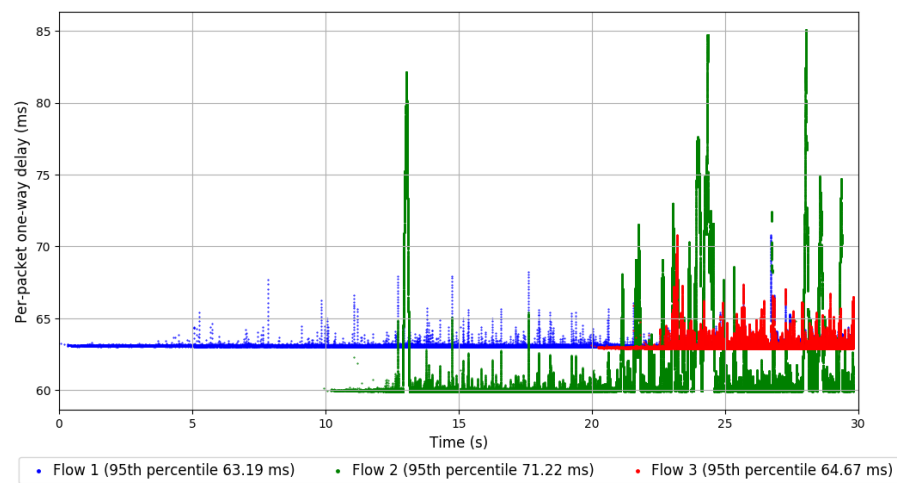
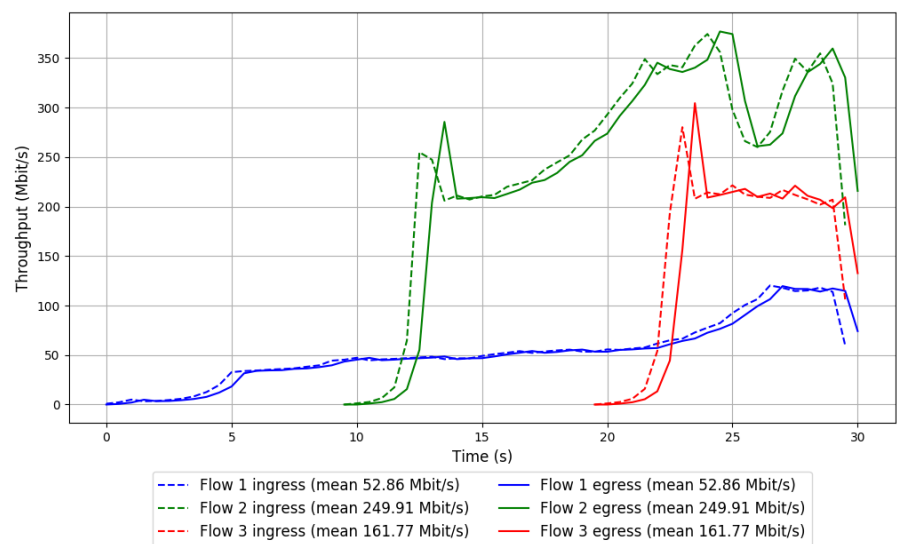
-- Flow 3:

Average throughput: 161.77 Mbit/s

95th percentile per-packet one-way delay: 64.668 ms

Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

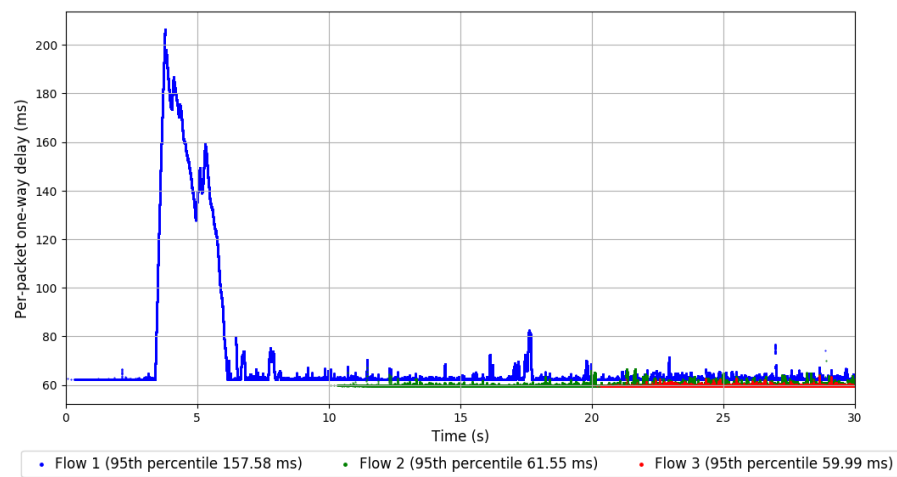
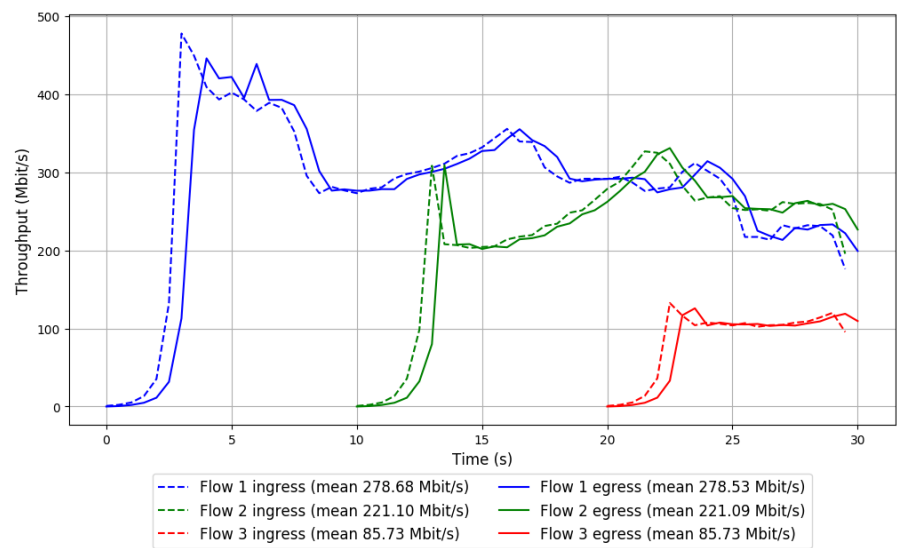


Run 2: Statistics of PCC-Vivace

Start at: 2019-12-11 21:04:29  
End at: 2019-12-11 21:04:59  
Local clock offset: -0.043 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-12-12 03:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 453.87 Mbit/s  
95th percentile per-packet one-way delay: 140.440 ms  
Loss rate: 0.04%  
-- Flow 1:  
Average throughput: 278.53 Mbit/s  
95th percentile per-packet one-way delay: 157.580 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 221.09 Mbit/s  
95th percentile per-packet one-way delay: 61.546 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 85.73 Mbit/s  
95th percentile per-packet one-way delay: 59.990 ms  
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link



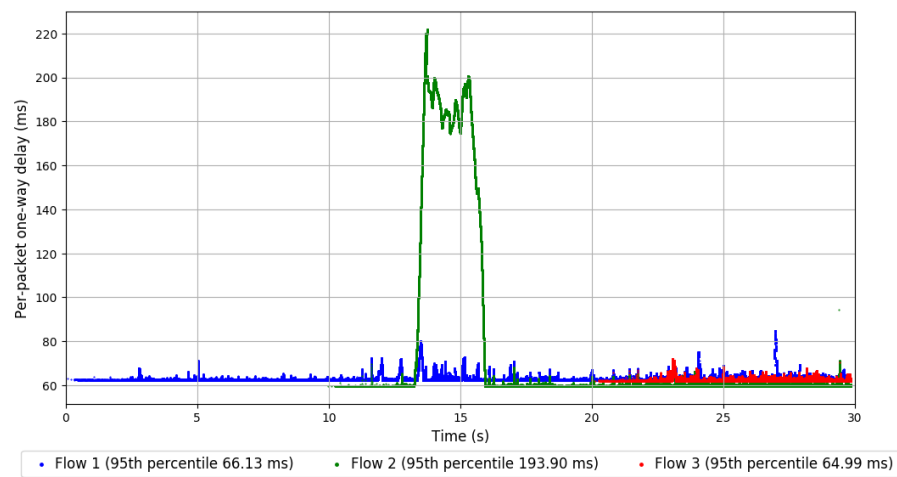
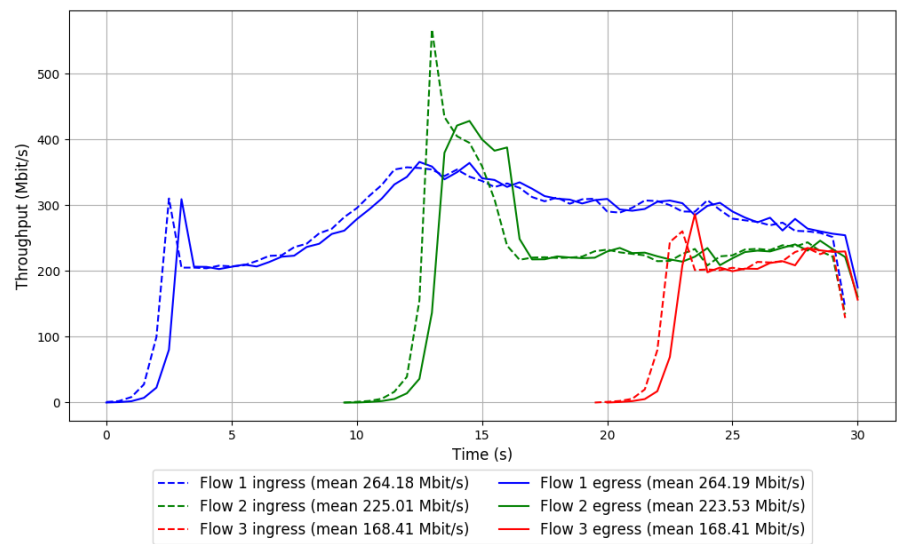


Run 3: Statistics of PCC-Vivace

Start at: 2019-12-11 21:45:45  
End at: 2019-12-11 21:46:15  
Local clock offset: -0.093 ms  
Remote clock offset: -0.069 ms

# Below is generated by plot.py at 2019-12-12 03:01:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 468.99 Mbit/s  
95th percentile per-packet one-way delay: 177.142 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 264.19 Mbit/s  
95th percentile per-packet one-way delay: 66.126 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 223.53 Mbit/s  
95th percentile per-packet one-way delay: 193.895 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 168.41 Mbit/s  
95th percentile per-packet one-way delay: 64.992 ms  
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link

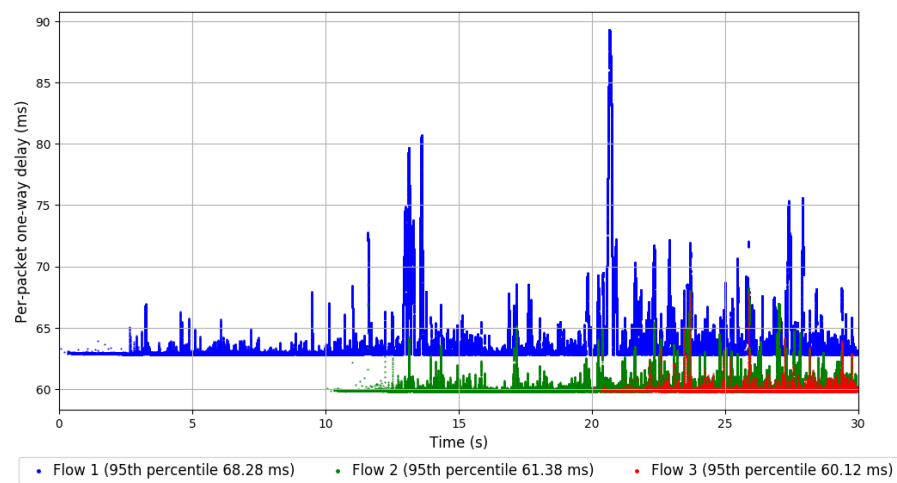
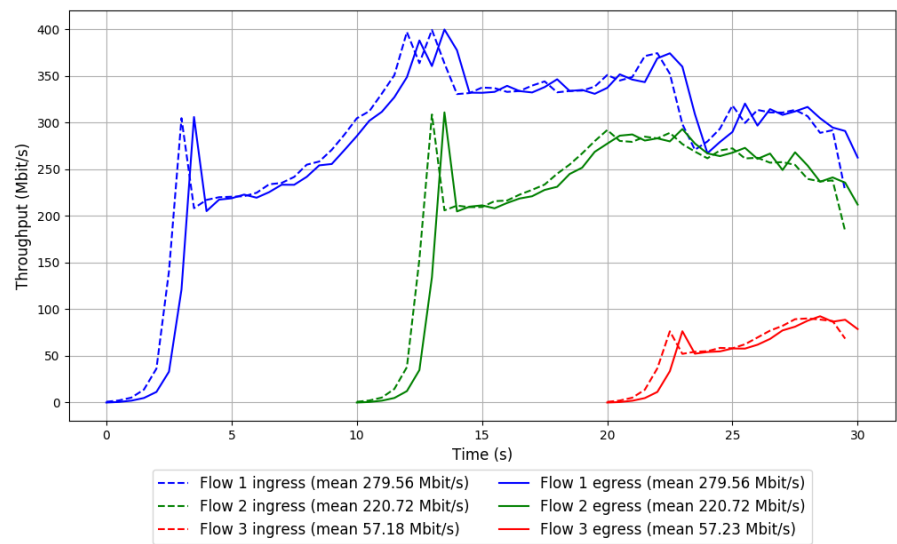


Run 4: Statistics of PCC-Vivace

Start at: 2019-12-11 22:26:46  
End at: 2019-12-11 22:27:16  
Local clock offset: 0.032 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-12-12 03:01:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 445.20 Mbit/s  
95th percentile per-packet one-way delay: 66.544 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 279.56 Mbit/s  
95th percentile per-packet one-way delay: 68.284 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 220.72 Mbit/s  
95th percentile per-packet one-way delay: 61.379 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 57.23 Mbit/s  
95th percentile per-packet one-way delay: 60.120 ms  
Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

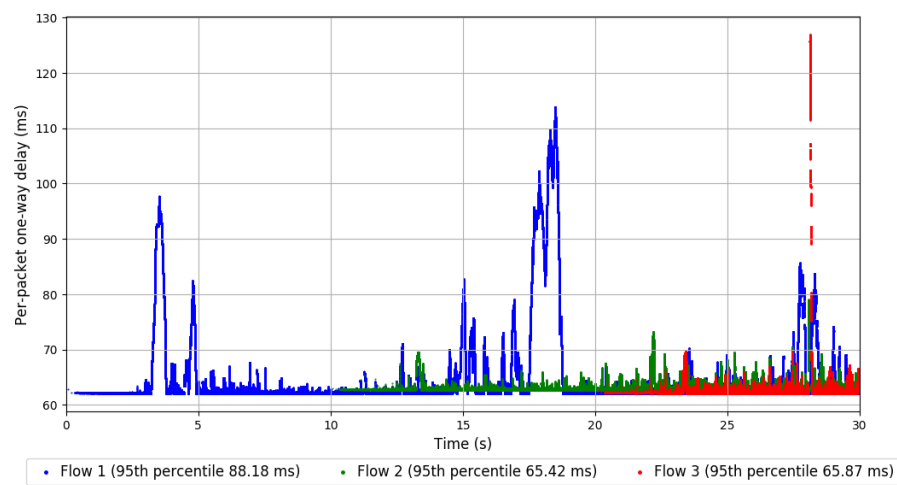
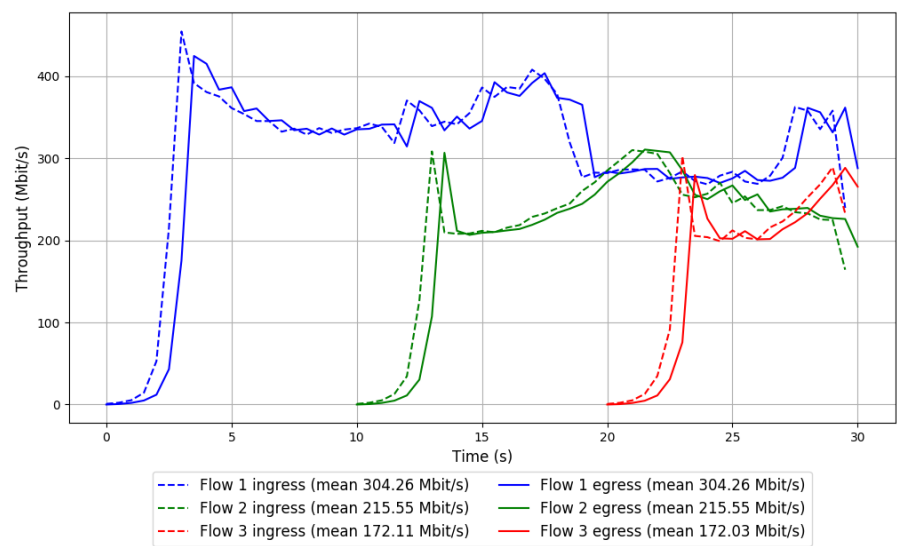


Run 5: Statistics of PCC-Vivace

Start at: 2019-12-11 23:07:49  
End at: 2019-12-11 23:08:19  
Local clock offset: -0.044 ms  
Remote clock offset: -0.052 ms

# Below is generated by plot.py at 2019-12-12 03:02:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 504.29 Mbit/s  
95th percentile per-packet one-way delay: 78.084 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 304.26 Mbit/s  
95th percentile per-packet one-way delay: 88.180 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 215.55 Mbit/s  
95th percentile per-packet one-way delay: 65.420 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 172.03 Mbit/s  
95th percentile per-packet one-way delay: 65.869 ms  
Loss rate: 0.04%

Run 5: Report of PCC-Vivace — Data Link

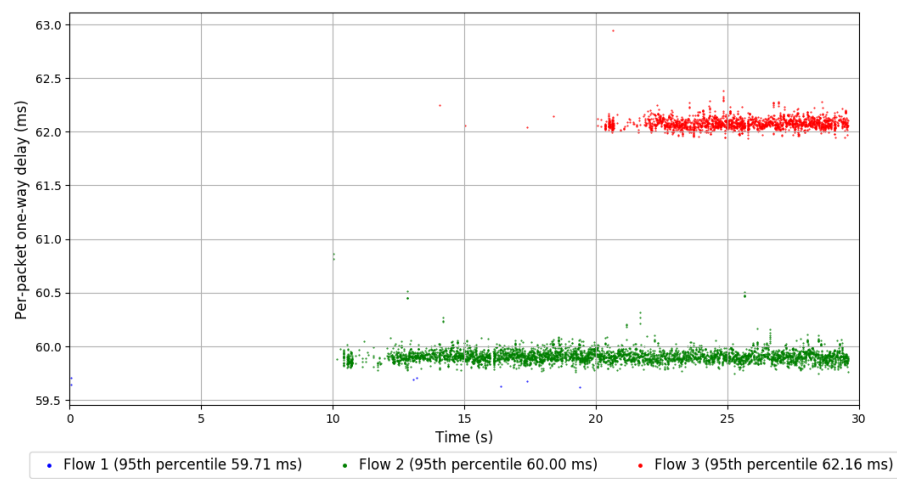
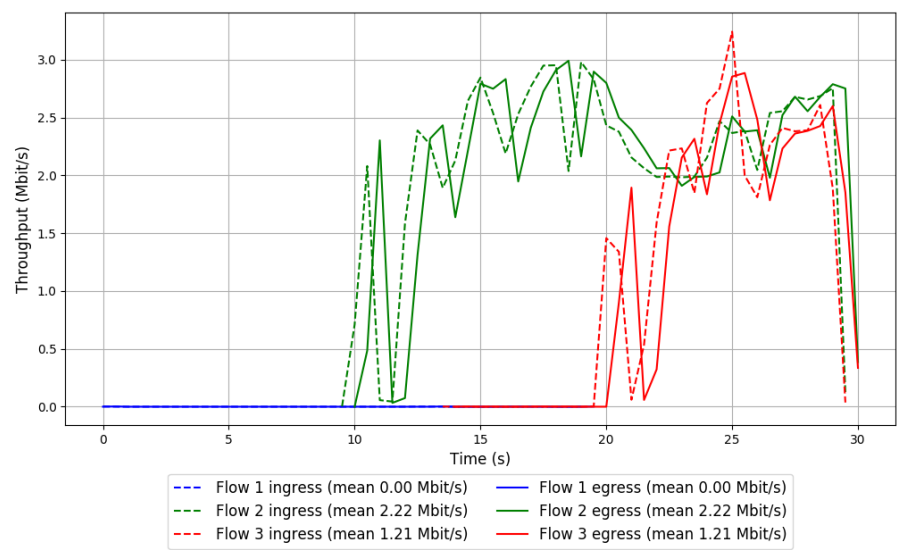


Run 1: Statistics of WebRTC media

Start at: 2019-12-11 20:34:06  
End at: 2019-12-11 20:34:36  
Local clock offset: -0.079 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-12-12 03:02:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.11 Mbit/s  
95th percentile per-packet one-way delay: 62.120 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 59.708 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 2.22 Mbit/s  
95th percentile per-packet one-way delay: 59.997 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 1.21 Mbit/s  
95th percentile per-packet one-way delay: 62.164 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



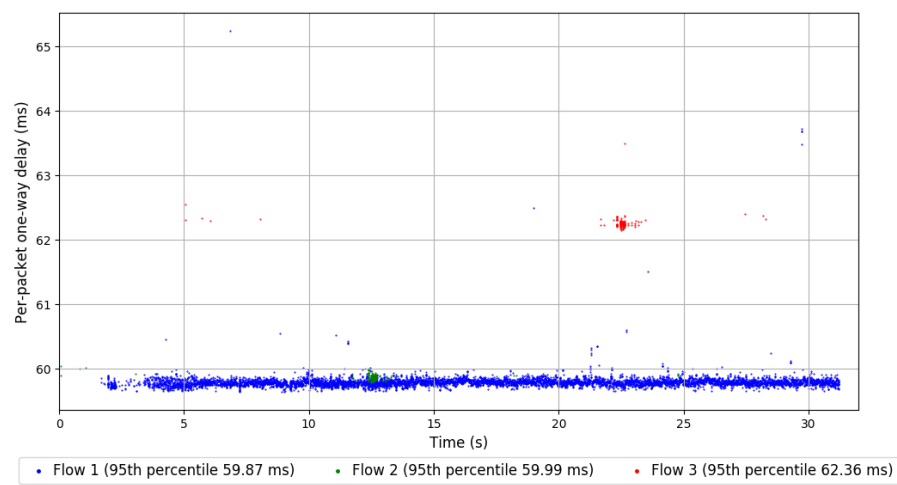
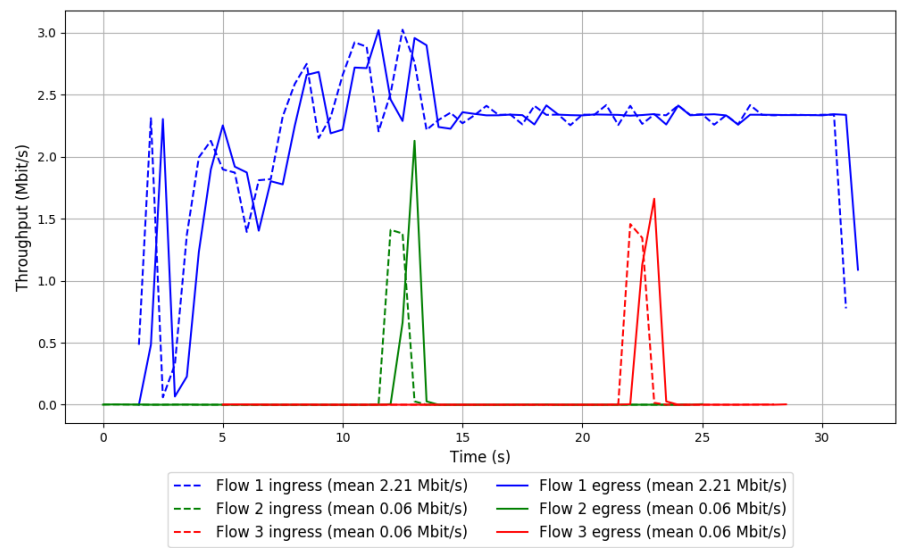


Run 2: Statistics of WebRTC media

Start at: 2019-12-11 21:15:12  
End at: 2019-12-11 21:15:42  
Local clock offset: -0.026 ms  
Remote clock offset: -0.113 ms

# Below is generated by plot.py at 2019-12-12 03:02:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.19 Mbit/s  
95th percentile per-packet one-way delay: 59.899 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.21 Mbit/s  
95th percentile per-packet one-way delay: 59.874 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 59.989 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 62.360 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

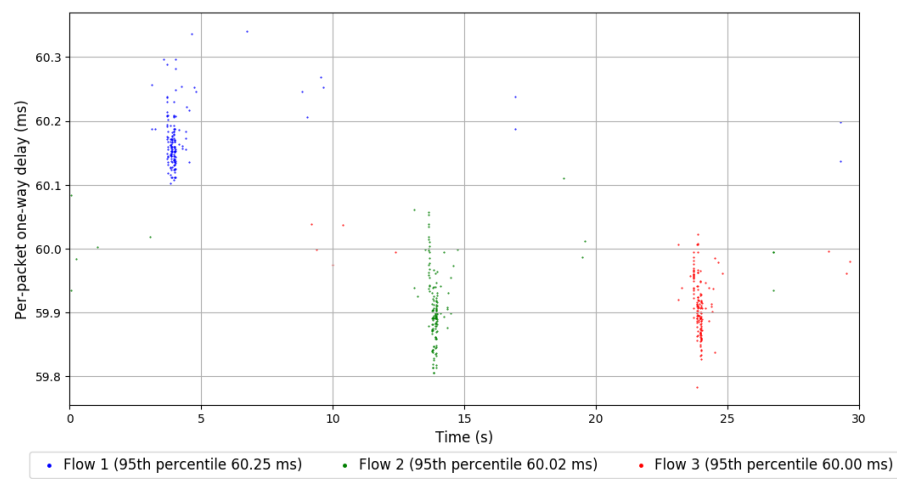
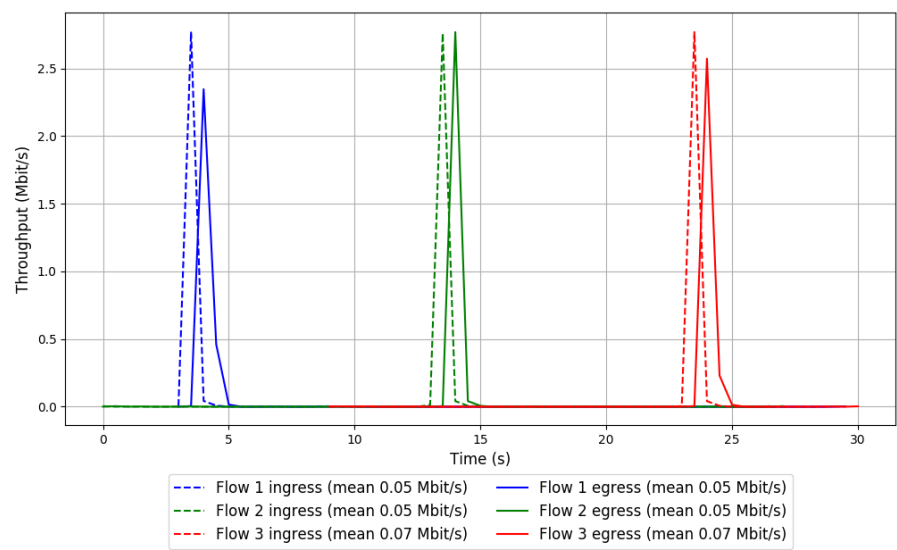


Run 3: Statistics of WebRTC media

Start at: 2019-12-11 21:56:15  
End at: 2019-12-11 21:56:45  
Local clock offset: -0.073 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-12-12 03:02:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 60.209 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.254 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 60.019 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 59.998 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

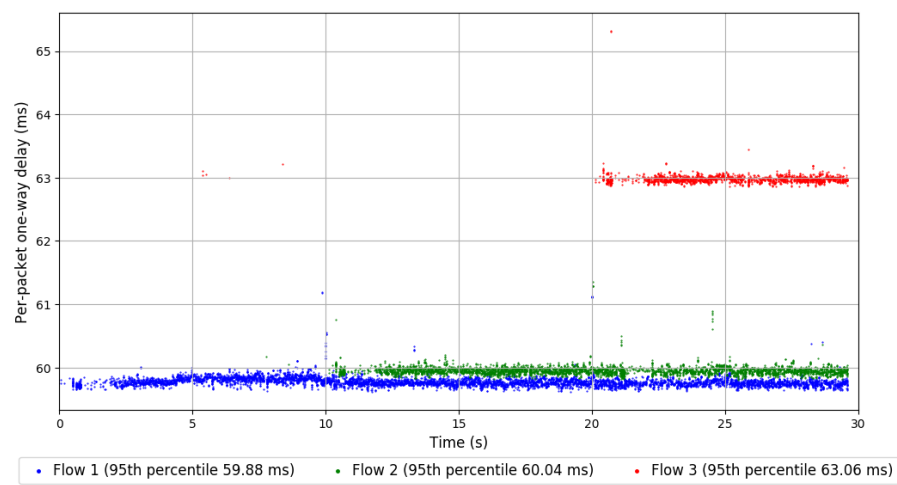
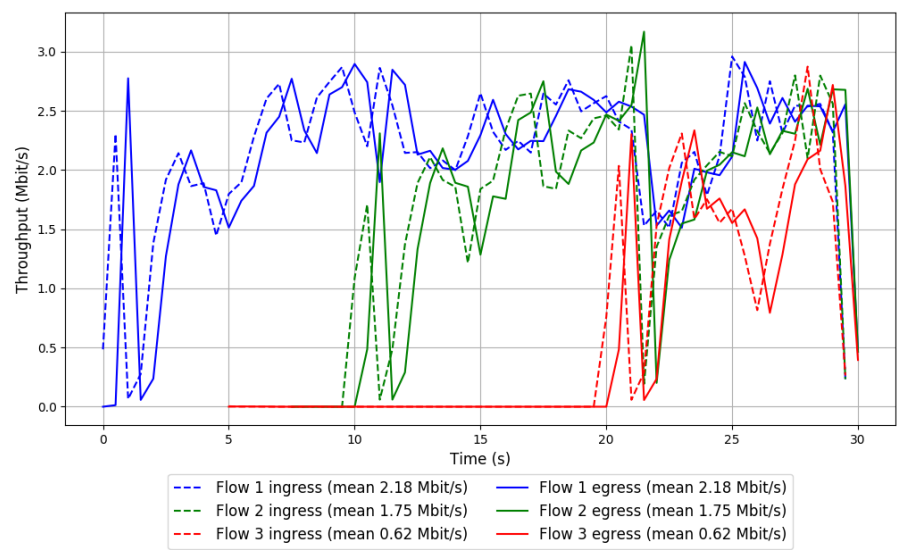


Run 4: Statistics of WebRTC media

Start at: 2019-12-11 22:37:27  
End at: 2019-12-11 22:37:57  
Local clock offset: -0.0 ms  
Remote clock offset: -0.123 ms

# Below is generated by plot.py at 2019-12-12 03:02:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.98 Mbit/s  
95th percentile per-packet one-way delay: 62.985 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.18 Mbit/s  
95th percentile per-packet one-way delay: 59.879 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.75 Mbit/s  
95th percentile per-packet one-way delay: 60.041 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 63.057 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-12-11 23:18:38  
End at: 2019-12-11 23:19:08  
Local clock offset: -0.004 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-12-12 03:02:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 62.289 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 62.324 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 59.925 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 59.721 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

