

## Pantheon Report

Generated at 2019-11-24 09:55:15 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

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

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

### System info:

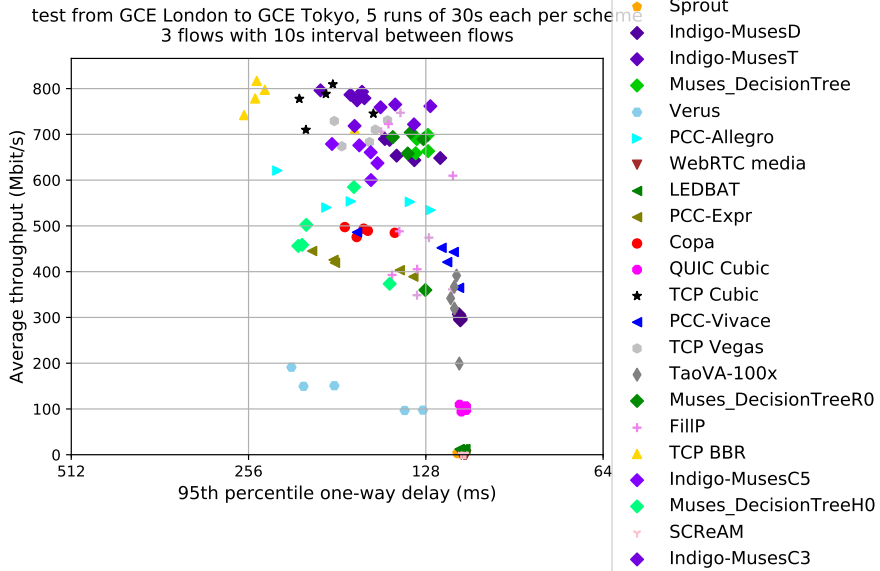
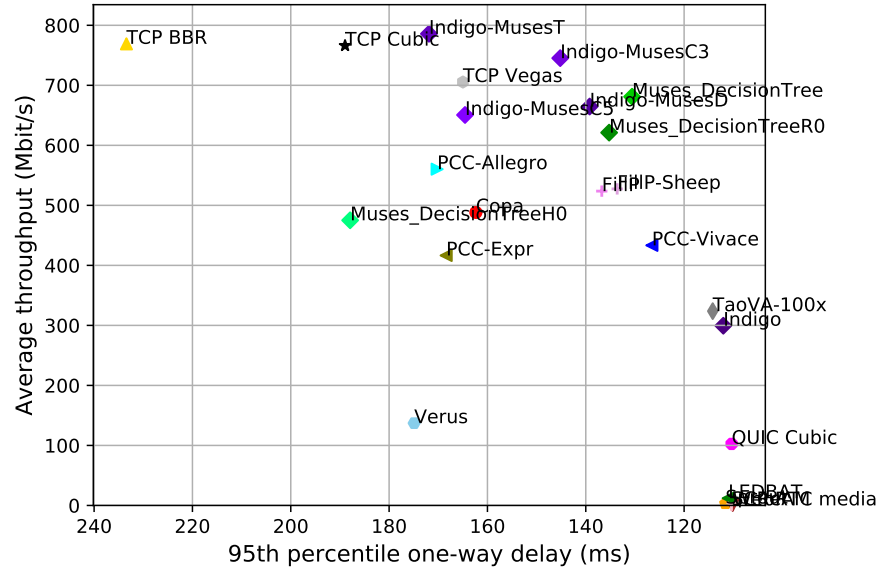
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ 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 London 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	425.86	377.74	282.50	235.99	228.94	144.36	2.94	3.34	3.95
Copa	5	260.63	248.43	191.79	162.41	156.89	166.30	0.65	1.13	3.15
TCP Cubic	5	411.33	386.78	299.39	170.71	188.41	167.25	0.82	1.33	3.30
FillP	5	239.24	319.39	223.91	151.03	115.51	113.43	0.97	0.95	2.71
FillP-Sheep	5	243.25	315.82	229.69	149.16	114.20	112.53	0.92	0.97	2.60
Indigo	5	156.63	151.65	128.59	112.48	110.70	110.59	0.78	1.19	2.72
Indigo-MusesC3	5	443.06	367.19	269.16	153.39	121.76	115.98	0.56	1.11	3.91
Indigo-MusesC5	5	387.78	330.22	215.00	173.51	143.35	115.18	0.60	0.90	6.37
Indigo-MusesD	5	410.09	350.09	123.90	146.51	131.98	110.01	0.56	1.26	3.91
Indigo-MusesT	5	483.82	402.37	186.98	177.62	132.74	114.13	0.76	1.06	4.29
LEDBAT	5	7.90	5.08	2.48	108.82	110.58	110.17	1.42	2.21	4.43
Muses_DecisionTree	5	403.62	329.85	192.25	135.96	116.61	115.16	0.49	1.08	3.56
Muses_DecisionTreeH0	5	220.08	281.58	221.19	183.25	178.24	148.27	3.21	1.89	2.57
Muses_DecisionTreeR0	5	319.69	354.79	216.07	138.85	131.81	113.61	0.64	1.09	3.71
PCC-Allegro	5	308.92	268.88	225.95	167.59	169.98	164.69	2.05	2.35	2.94
PCC-Expr	5	238.59	184.14	172.19	168.21	124.01	179.08	1.76	1.70	3.24
QUIC Cubic	5	59.64	42.65	43.69	109.24	107.62	108.31	0.68	2.02	0.94
SCReAM	5	0.21	0.22	0.22	110.14	108.39	108.32	0.71	1.16	2.15
Sprout	5	1.97	1.33	1.07	110.43	109.31	108.89	0.77	1.30	3.02
TaoVA-100x	5	157.75	184.51	133.10	113.11	112.63	114.81	0.77	1.28	2.29
TCP Vegas	5	377.30	352.31	287.82	144.43	159.71	213.08	0.76	1.03	3.40
Verus	5	79.64	61.10	59.14	161.51	161.15	135.90	1.00	0.45	2.78
PCC-Vivace	5	265.25	189.23	131.54	121.62	138.63	121.40	0.83	1.19	3.70
WebRTC media	5	0.06	0.06	0.06	109.09	108.13	108.93	0.00	0.00	0.00

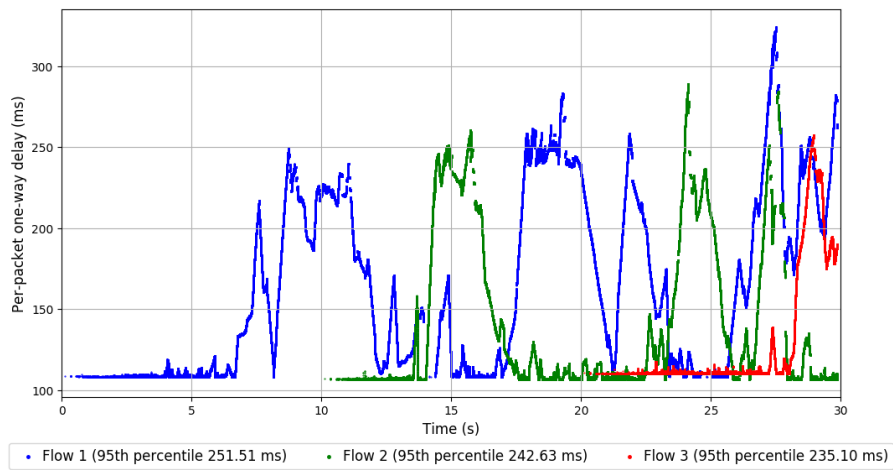
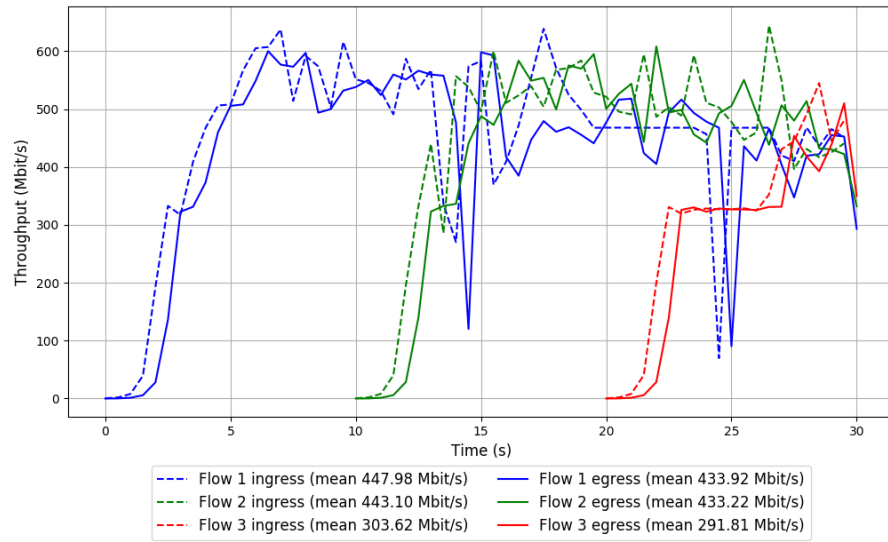


Run 1: Statistics of TCP BBR

Start at: 2019-11-24 03:52:34  
End at: 2019-11-24 03:53:04  
Local clock offset: 0.052 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-11-24 07:23:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 817.00 Mbit/s  
95th percentile per-packet one-way delay: 247.949 ms  
Loss rate: 3.91%  
-- Flow 1:  
Average throughput: 433.92 Mbit/s  
95th percentile per-packet one-way delay: 251.512 ms  
Loss rate: 3.85%  
-- Flow 2:  
Average throughput: 433.22 Mbit/s  
95th percentile per-packet one-way delay: 242.634 ms  
Loss rate: 3.29%  
-- Flow 3:  
Average throughput: 291.81 Mbit/s  
95th percentile per-packet one-way delay: 235.104 ms  
Loss rate: 6.02%

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

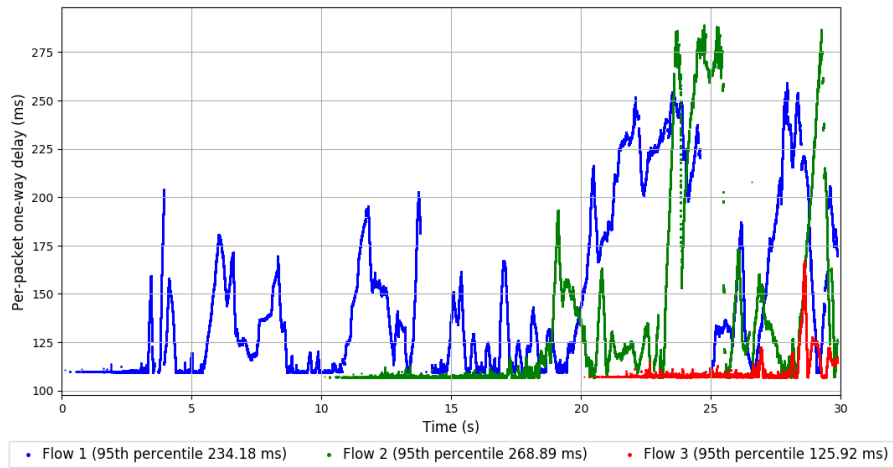
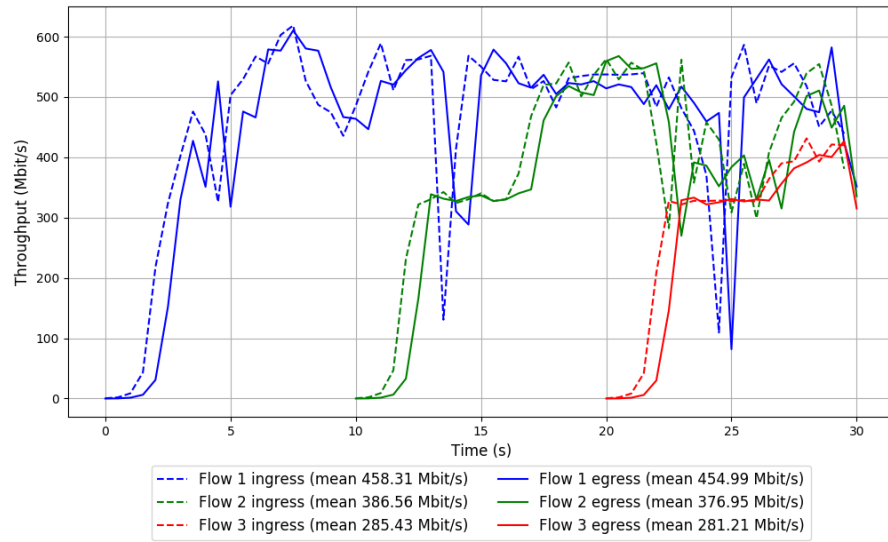


Run 2: Statistics of TCP BBR

Start at: 2019-11-24 04:35:07  
End at: 2019-11-24 04:35:37  
Local clock offset: -0.059 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 07:23:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 797.39 Mbit/s  
95th percentile per-packet one-way delay: 240.246 ms  
Loss rate: 2.36%  
-- Flow 1:  
Average throughput: 454.99 Mbit/s  
95th percentile per-packet one-way delay: 234.178 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 376.95 Mbit/s  
95th percentile per-packet one-way delay: 268.890 ms  
Loss rate: 3.53%  
-- Flow 3:  
Average throughput: 281.21 Mbit/s  
95th percentile per-packet one-way delay: 125.922 ms  
Loss rate: 3.60%

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

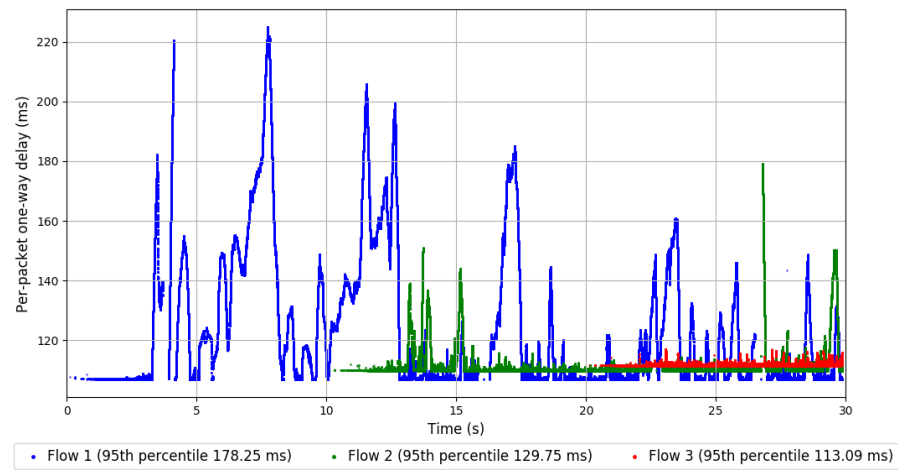
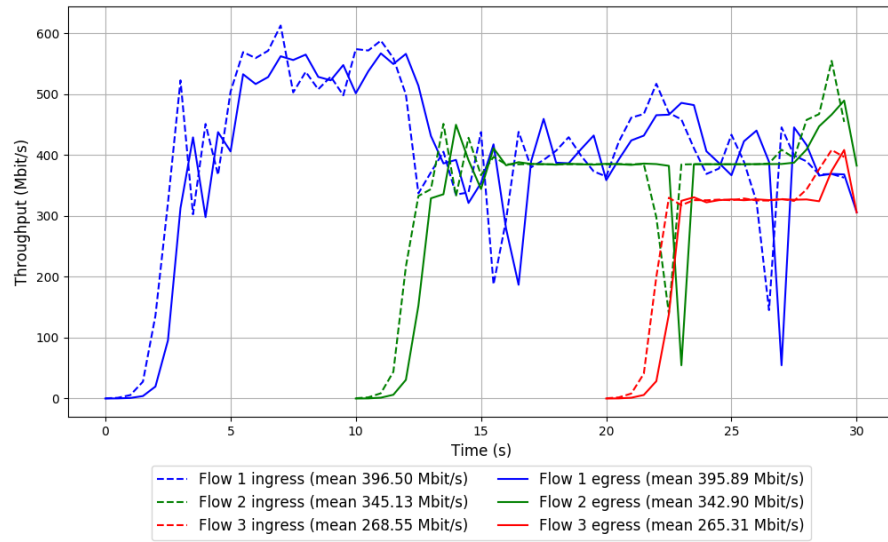


Run 3: Statistics of TCP BBR

Start at: 2019-11-24 05:17:51  
End at: 2019-11-24 05:18:21  
Local clock offset: -0.058 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 07:23:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 710.46 Mbit/s  
95th percentile per-packet one-way delay: 169.040 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 395.89 Mbit/s  
95th percentile per-packet one-way delay: 178.247 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 342.90 Mbit/s  
95th percentile per-packet one-way delay: 129.755 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 265.31 Mbit/s  
95th percentile per-packet one-way delay: 113.093 ms  
Loss rate: 3.42%

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

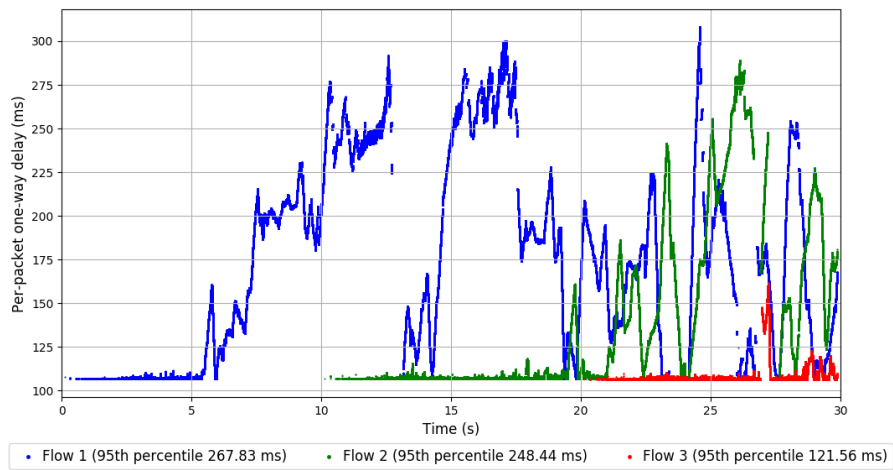
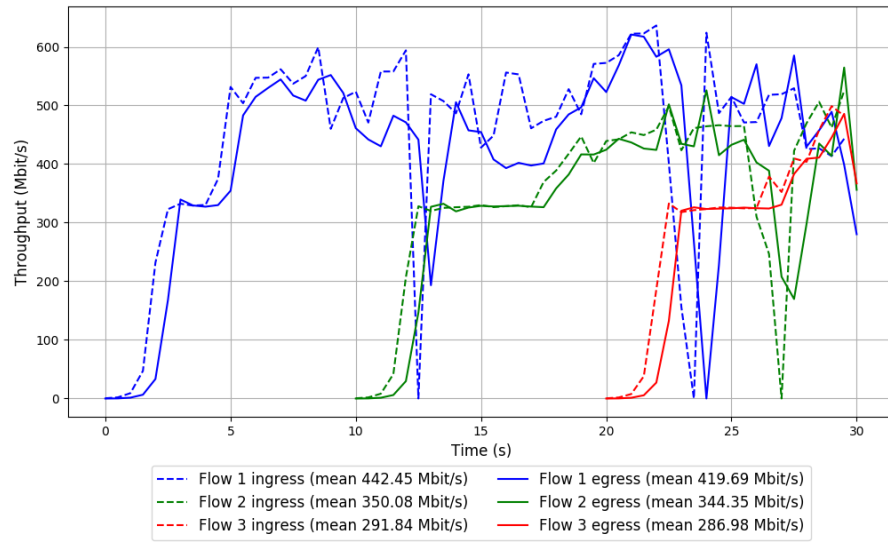


Run 4: Statistics of TCP BBR

Start at: 2019-11-24 05:59:47  
End at: 2019-11-24 06:00:17  
Local clock offset: -0.179 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 07:23:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 742.16 Mbit/s  
95th percentile per-packet one-way delay: 260.450 ms  
Loss rate: 4.64%  
-- Flow 1:  
Average throughput: 419.69 Mbit/s  
95th percentile per-packet one-way delay: 267.835 ms  
Loss rate: 5.84%  
-- Flow 2:  
Average throughput: 344.35 Mbit/s  
95th percentile per-packet one-way delay: 248.445 ms  
Loss rate: 2.71%  
-- Flow 3:  
Average throughput: 286.98 Mbit/s  
95th percentile per-packet one-way delay: 121.565 ms  
Loss rate: 3.82%

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



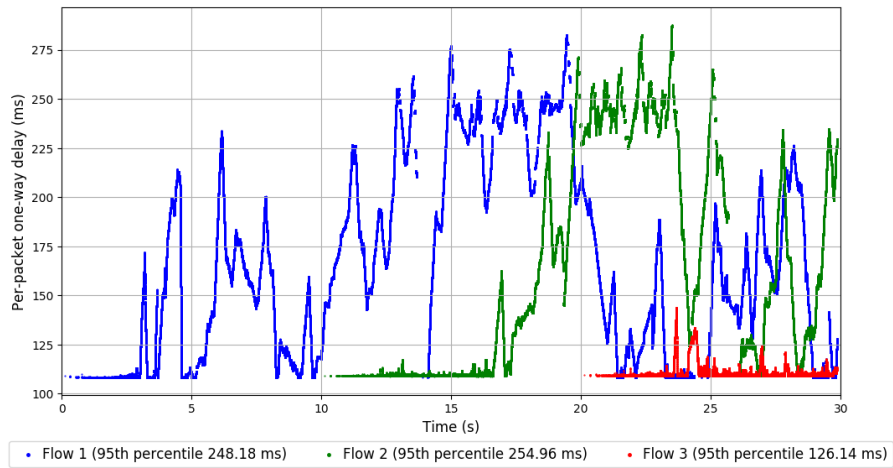
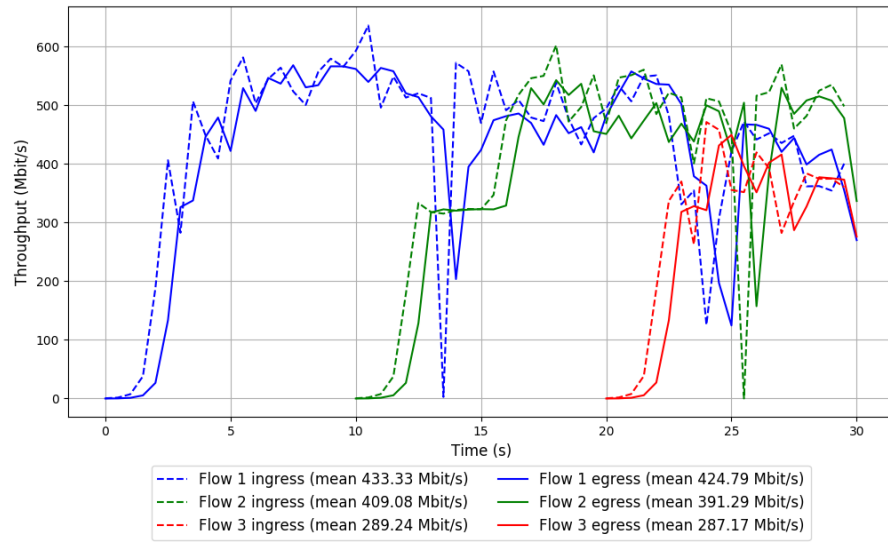


Run 5: Statistics of TCP BBR

Start at: 2019-11-24 06:41:58  
End at: 2019-11-24 06:42:28  
Local clock offset: -0.196 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-11-24 07:23:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 778.50 Mbit/s  
95th percentile per-packet one-way delay: 249.431 ms  
Loss rate: 3.64%  
-- Flow 1:  
Average throughput: 424.79 Mbit/s  
95th percentile per-packet one-way delay: 248.176 ms  
Loss rate: 2.69%  
-- Flow 2:  
Average throughput: 391.29 Mbit/s  
95th percentile per-packet one-way delay: 254.963 ms  
Loss rate: 5.40%  
-- Flow 3:  
Average throughput: 287.17 Mbit/s  
95th percentile per-packet one-way delay: 126.135 ms  
Loss rate: 2.91%

# Run 5: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2019-11-24 03:28:03

End at: 2019-11-24 03:28:33

Local clock offset: -0.032 ms

Remote clock offset: -0.01 ms

# Below is generated by plot.py at 2019-11-24 07:25:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 489.40 Mbit/s

95th percentile per-packet one-way delay: 160.593 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 269.52 Mbit/s

95th percentile per-packet one-way delay: 157.961 ms

Loss rate: 0.40%

-- Flow 2:

Average throughput: 242.22 Mbit/s

95th percentile per-packet one-way delay: 154.584 ms

Loss rate: 0.96%

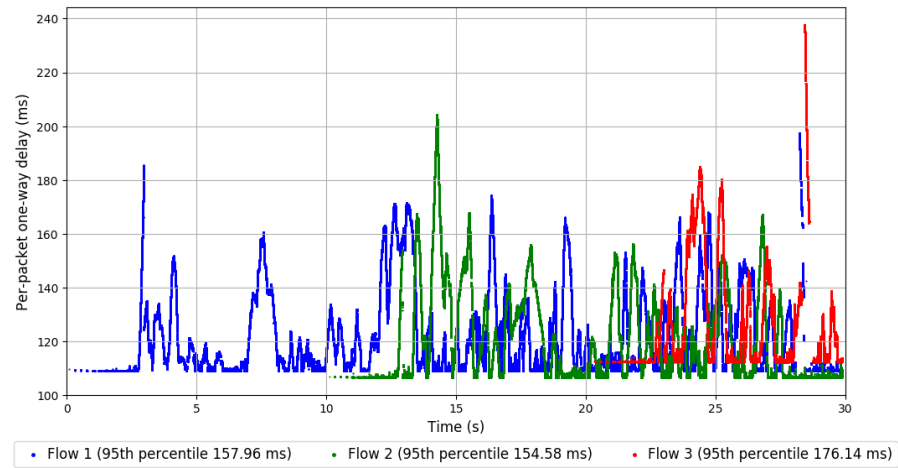
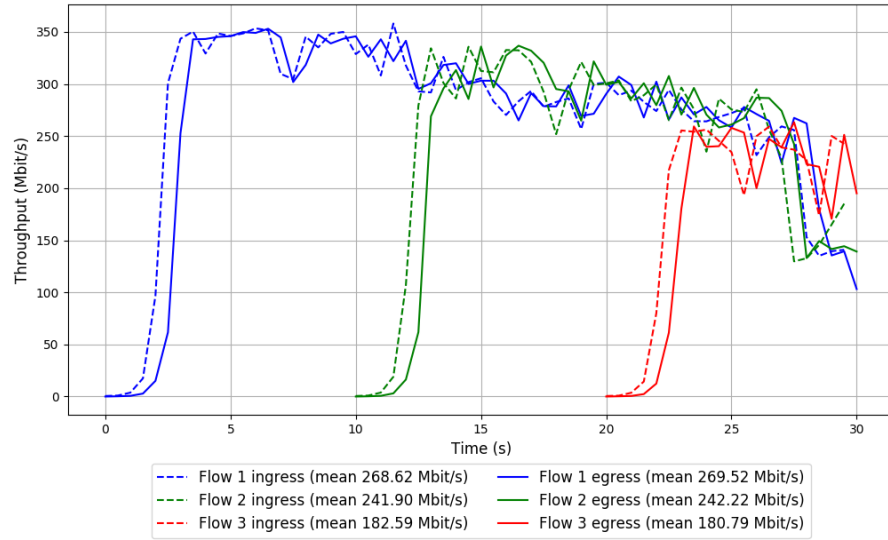
-- Flow 3:

Average throughput: 180.79 Mbit/s

95th percentile per-packet one-way delay: 176.137 ms

Loss rate: 3.19%

# Run 1: Report of Copa — Data Link

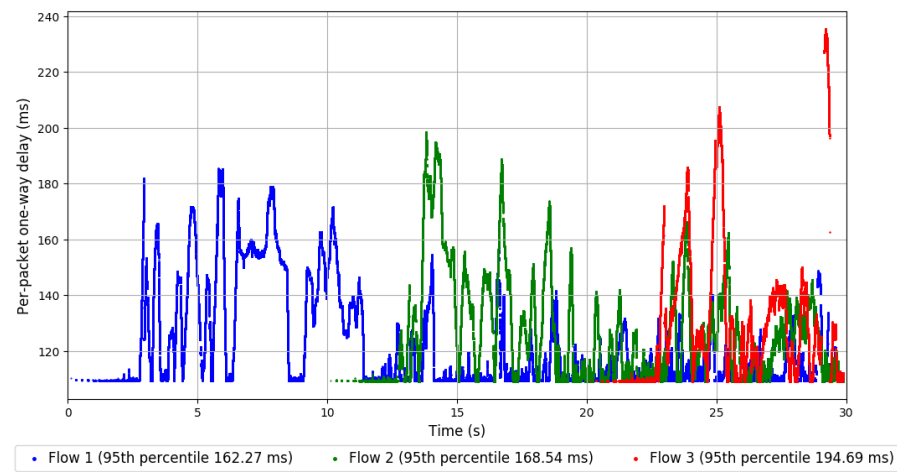
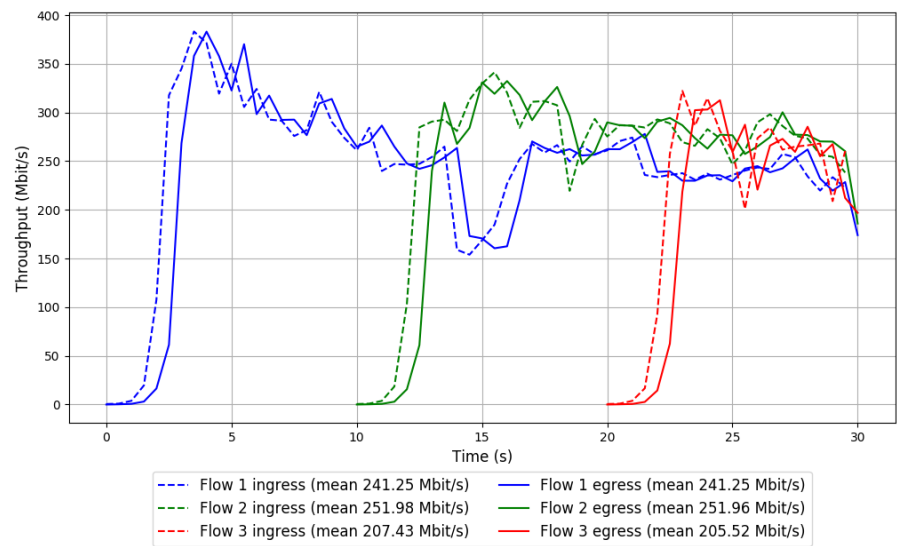


Run 2: Statistics of Copa

Start at: 2019-11-24 04:10:48  
End at: 2019-11-24 04:11:18  
Local clock offset: 0.079 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-11-24 07:25:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 475.68 Mbit/s  
95th percentile per-packet one-way delay: 167.729 ms  
Loss rate: 1.19%  
-- Flow 1:  
Average throughput: 241.25 Mbit/s  
95th percentile per-packet one-way delay: 162.270 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 251.96 Mbit/s  
95th percentile per-packet one-way delay: 168.543 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 205.52 Mbit/s  
95th percentile per-packet one-way delay: 194.688 ms  
Loss rate: 3.08%

Run 2: Report of Copa — Data Link

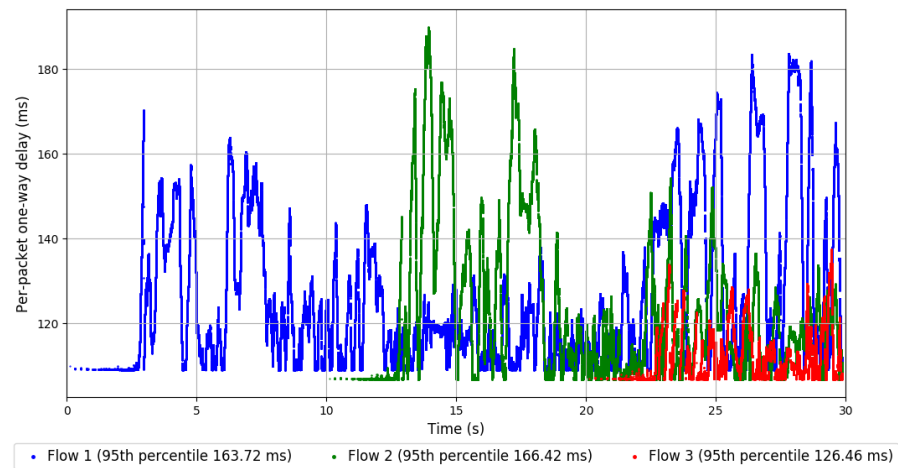
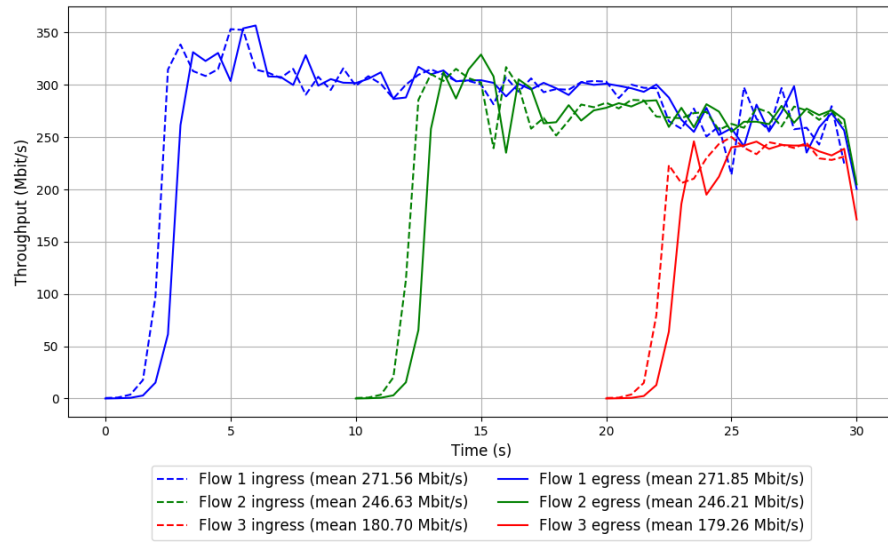


Run 3: Statistics of Copa

Start at: 2019-11-24 04:53:27  
End at: 2019-11-24 04:53:57  
Local clock offset: -0.068 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-11-24 07:25:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 493.97 Mbit/s  
95th percentile per-packet one-way delay: 163.196 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 271.85 Mbit/s  
95th percentile per-packet one-way delay: 163.722 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 246.21 Mbit/s  
95th percentile per-packet one-way delay: 166.419 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 179.26 Mbit/s  
95th percentile per-packet one-way delay: 126.461 ms  
Loss rate: 2.95%

### Run 3: Report of Copa — Data Link



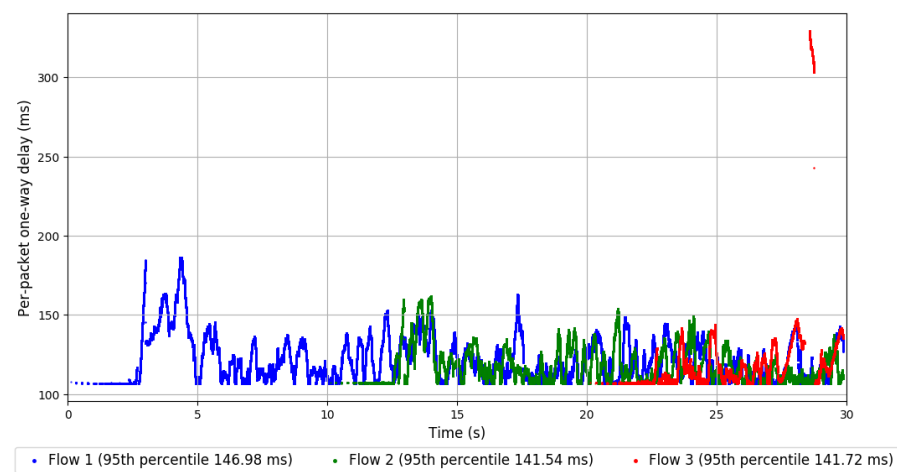
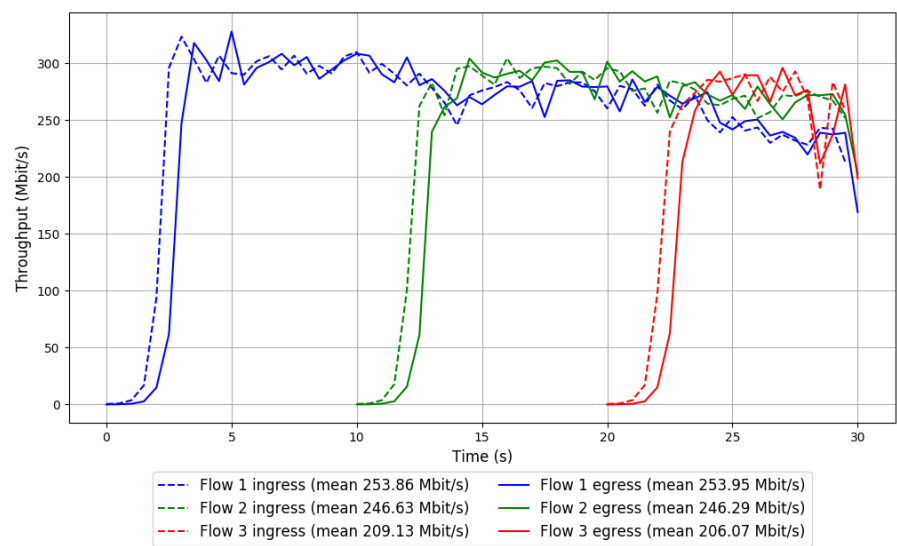


#### Run 4: Statistics of Copa

Start at: 2019-11-24 05:36:04  
End at: 2019-11-24 05:36:34  
Local clock offset: 0.094 ms  
Remote clock offset: -0.083 ms

```
# Below is generated by plot.py at 2019-11-24 07:39:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 484.92 Mbit/s
95th percentile per-packet one-way delay: 144.520 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 253.95 Mbit/s
95th percentile per-packet one-way delay: 146.981 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 246.29 Mbit/s
95th percentile per-packet one-way delay: 141.543 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 206.07 Mbit/s
95th percentile per-packet one-way delay: 141.717 ms
Loss rate: 3.62%
```

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-11-24 06:17:47

End at: 2019-11-24 06:18:17

Local clock offset: 0.035 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-11-24 07:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.41 Mbit/s

95th percentile per-packet one-way delay: 175.711 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 266.58 Mbit/s

95th percentile per-packet one-way delay: 181.096 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 255.49 Mbit/s

95th percentile per-packet one-way delay: 153.340 ms

Loss rate: 1.16%

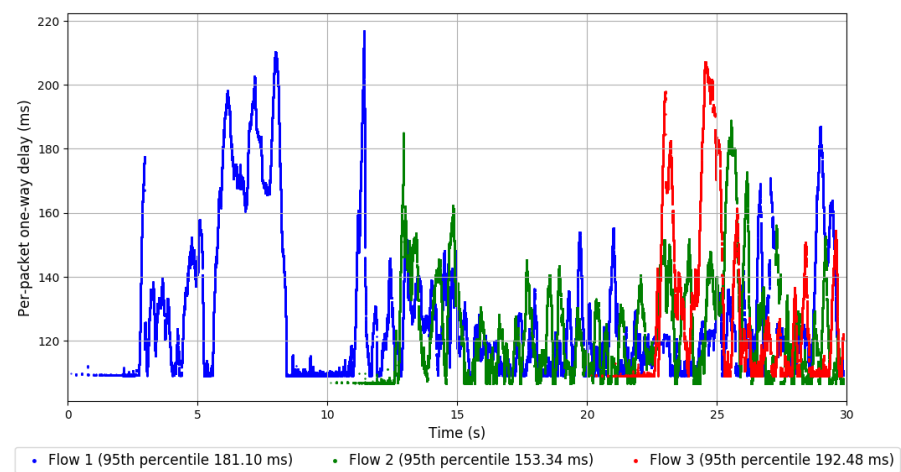
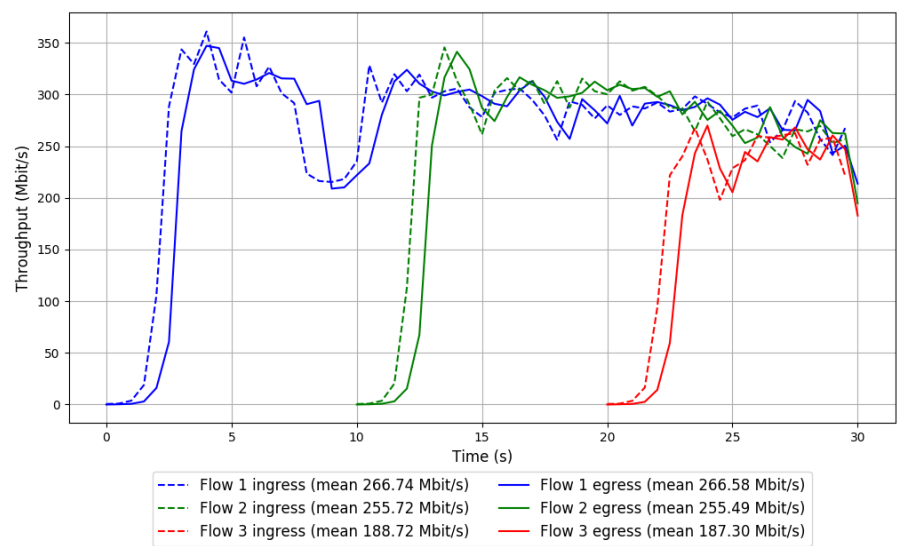
-- Flow 3:

Average throughput: 187.30 Mbit/s

95th percentile per-packet one-way delay: 192.482 ms

Loss rate: 2.92%

Run 5: Report of Copa — Data Link

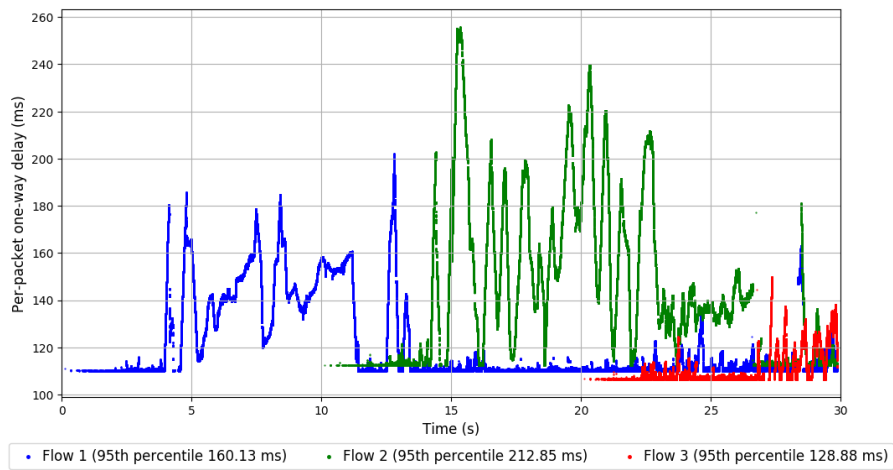
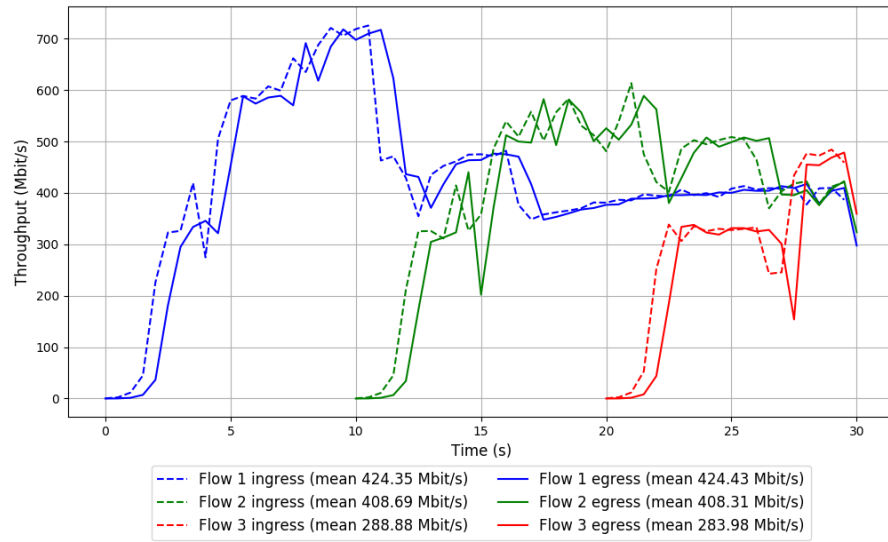


Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 03:58:31  
End at: 2019-11-24 03:59:01  
Local clock offset: -0.199 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-11-24 07:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 788.42 Mbit/s  
95th percentile per-packet one-way delay: 189.167 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 424.43 Mbit/s  
95th percentile per-packet one-way delay: 160.131 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 408.31 Mbit/s  
95th percentile per-packet one-way delay: 212.849 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 283.98 Mbit/s  
95th percentile per-packet one-way delay: 128.878 ms  
Loss rate: 3.85%

# Run 1: Report of TCP Cubic — Data Link

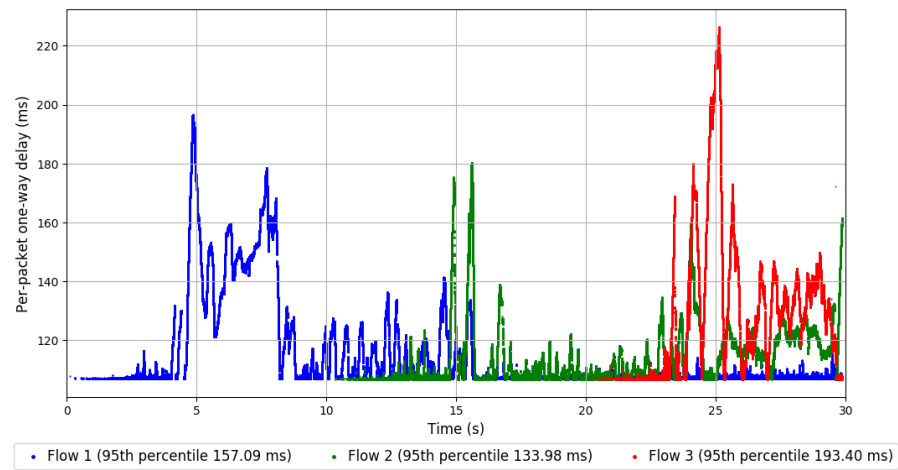
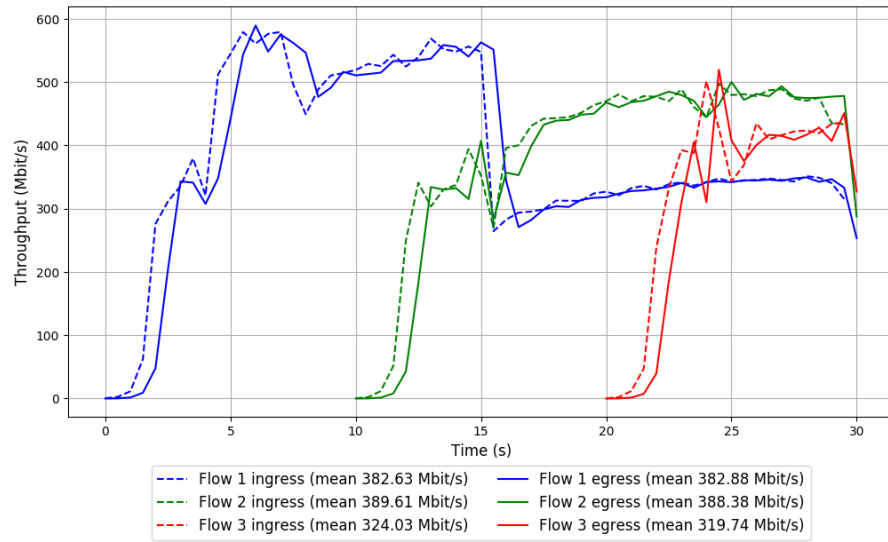


Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 04:41:03  
End at: 2019-11-24 04:41:33  
Local clock offset: -0.078 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-11-24 07:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 745.29 Mbit/s  
95th percentile per-packet one-way delay: 157.101 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 382.88 Mbit/s  
95th percentile per-packet one-way delay: 157.085 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 388.38 Mbit/s  
95th percentile per-packet one-way delay: 133.978 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 319.74 Mbit/s  
95th percentile per-packet one-way delay: 193.400 ms  
Loss rate: 3.33%

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





Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 05:23:46

End at: 2019-11-24 05:24:16

Local clock offset: -0.127 ms

Remote clock offset: 0.297 ms

# Below is generated by plot.py at 2019-11-24 07:41:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 809.27 Mbit/s

95th percentile per-packet one-way delay: 184.112 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 445.34 Mbit/s

95th percentile per-packet one-way delay: 181.481 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 401.34 Mbit/s

95th percentile per-packet one-way delay: 191.272 ms

Loss rate: 1.41%

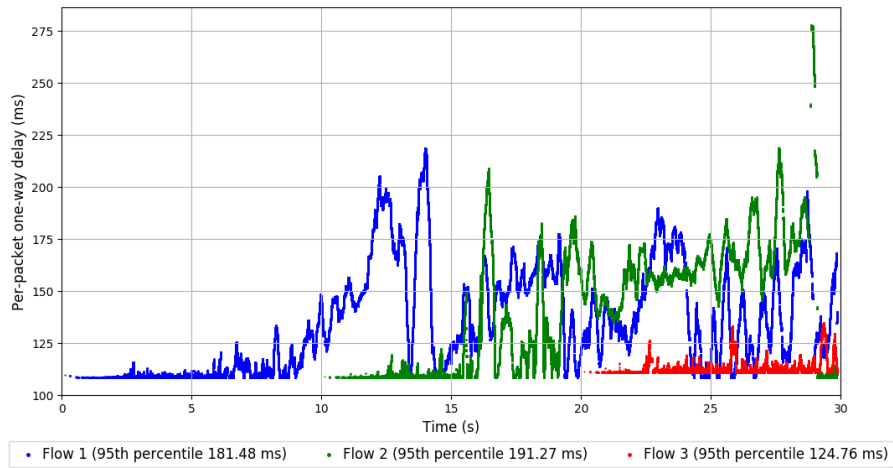
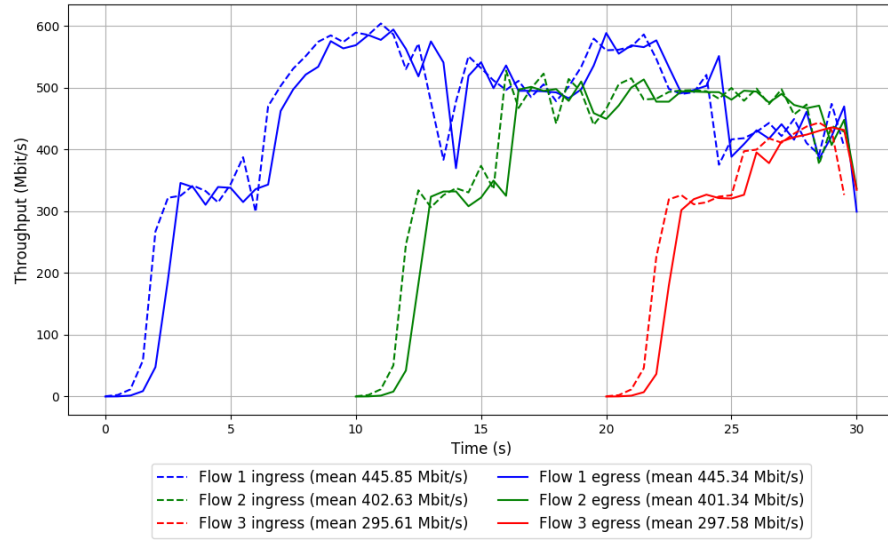
-- Flow 3:

Average throughput: 297.58 Mbit/s

95th percentile per-packet one-way delay: 124.759 ms

Loss rate: 1.58%

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

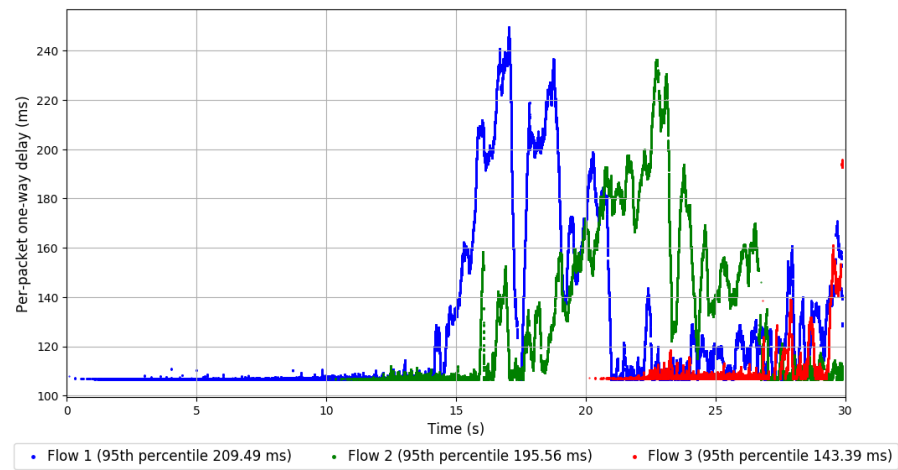
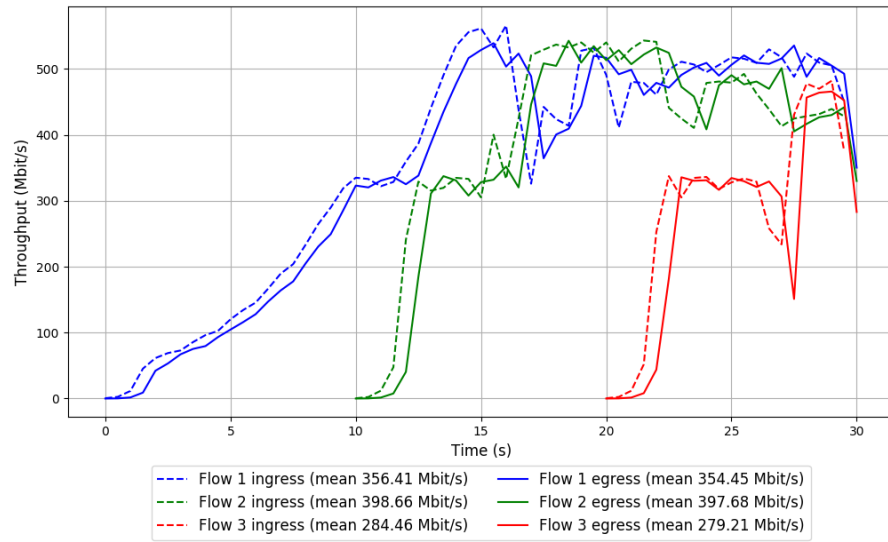


Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 06:05:41  
End at: 2019-11-24 06:06:11  
Local clock offset: -0.012 ms  
Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 07:41:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 709.84 Mbit/s  
95th percentile per-packet one-way delay: 204.548 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 354.45 Mbit/s  
95th percentile per-packet one-way delay: 209.494 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 397.68 Mbit/s  
95th percentile per-packet one-way delay: 195.565 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 279.21 Mbit/s  
95th percentile per-packet one-way delay: 143.394 ms  
Loss rate: 3.97%

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



Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 06:48:00

End at: 2019-11-24 06:48:30

Local clock offset: -0.027 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 07:41:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 777.63 Mbit/s

95th percentile per-packet one-way delay: 209.877 ms

Loss rate: 1.25%

-- Flow 1:

Average throughput: 449.53 Mbit/s

95th percentile per-packet one-way delay: 145.337 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 338.18 Mbit/s

95th percentile per-packet one-way delay: 208.378 ms

Loss rate: 1.33%

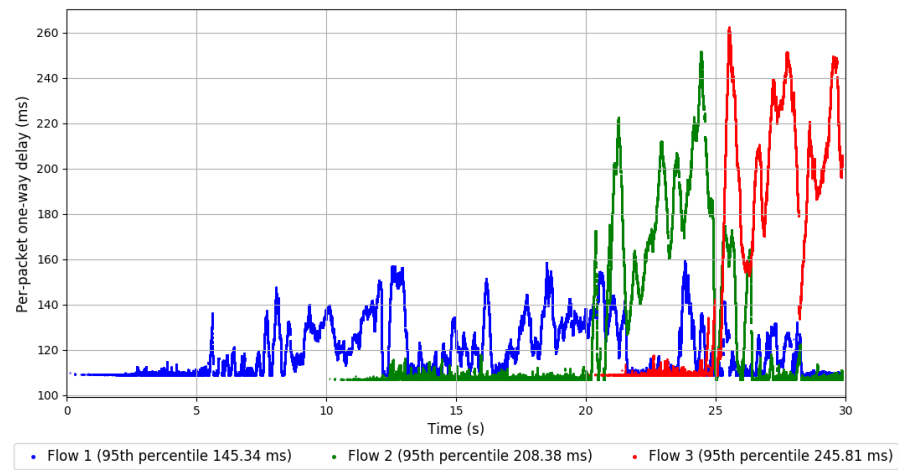
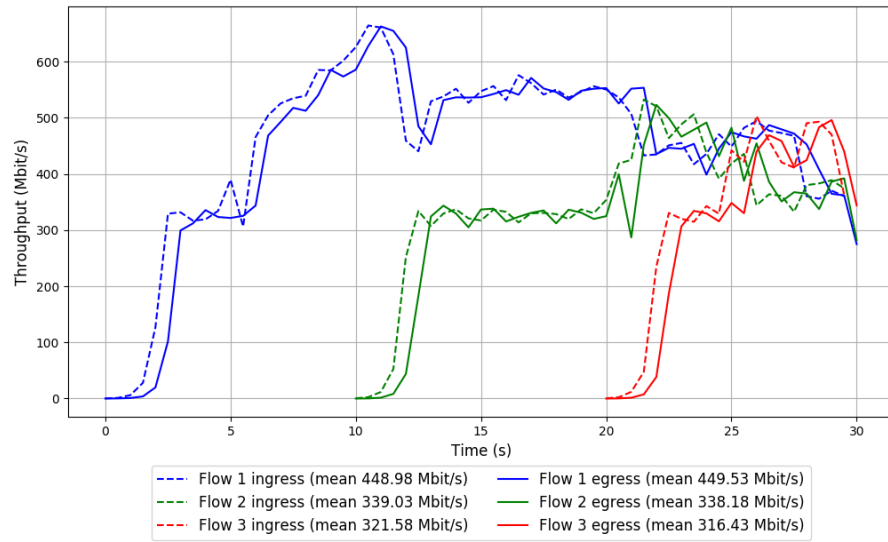
-- Flow 3:

Average throughput: 316.43 Mbit/s

95th percentile per-packet one-way delay: 245.813 ms

Loss rate: 3.76%

# Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-11-24 03:19:39

End at: 2019-11-24 03:20:09

Local clock offset: -0.144 ms

Remote clock offset: 0.014 ms

# Below is generated by plot.py at 2019-11-24 07:41:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 488.18 Mbit/s

95th percentile per-packet one-way delay: 141.971 ms

Loss rate: 1.03%

-- Flow 1:

Average throughput: 204.98 Mbit/s

95th percentile per-packet one-way delay: 152.332 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 314.01 Mbit/s

95th percentile per-packet one-way delay: 117.632 ms

Loss rate: 0.97%

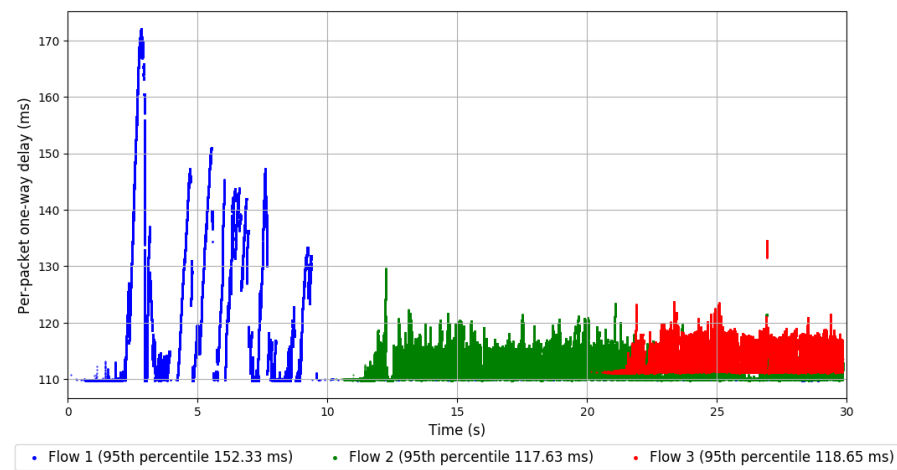
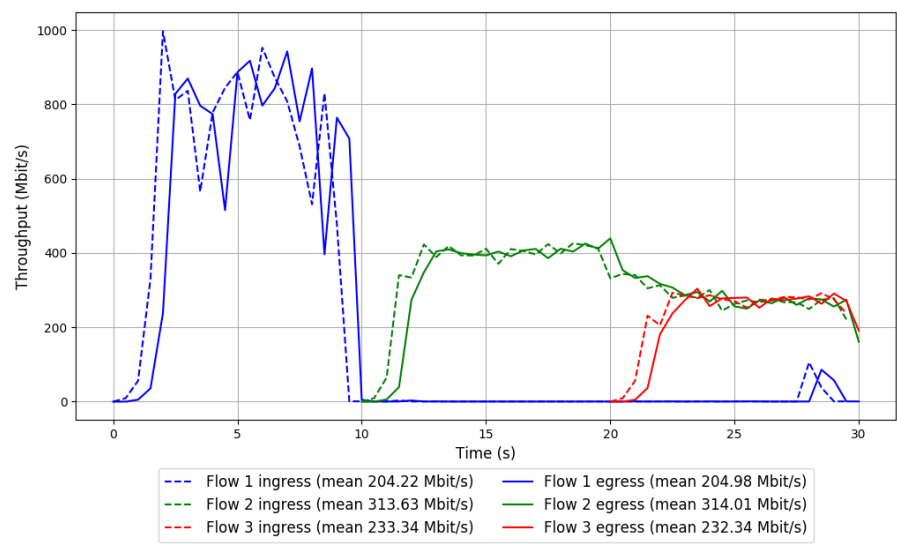
-- Flow 3:

Average throughput: 232.34 Mbit/s

95th percentile per-packet one-way delay: 118.649 ms

Loss rate: 2.62%

Run 1: Report of FillP — Data Link



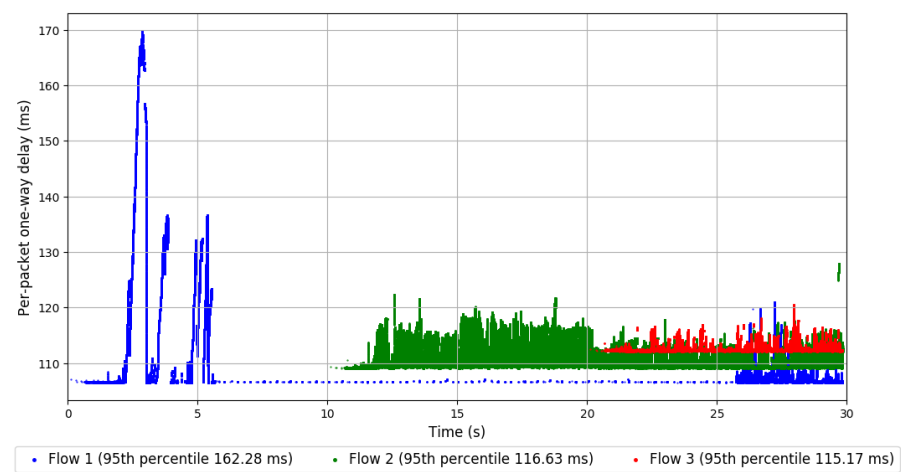
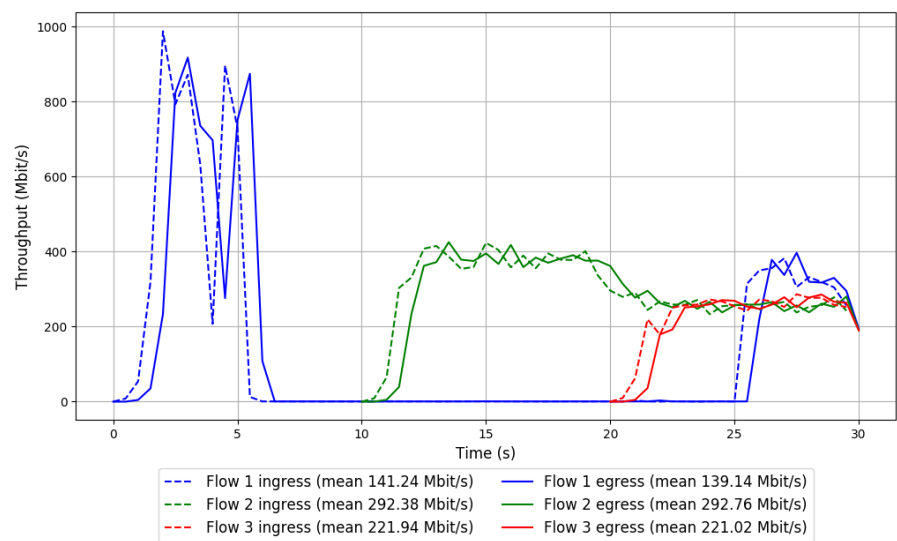


Run 2: Statistics of FillP

Start at: 2019-11-24 04:02:27  
End at: 2019-11-24 04:02:57  
Local clock offset: -0.133 ms  
Remote clock offset: -0.128 ms

# Below is generated by plot.py at 2019-11-24 07:47:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 405.35 Mbit/s  
95th percentile per-packet one-way delay: 132.416 ms  
Loss rate: 1.73%  
-- Flow 1:  
Average throughput: 139.14 Mbit/s  
95th percentile per-packet one-way delay: 162.284 ms  
Loss rate: 2.21%  
-- Flow 2:  
Average throughput: 292.76 Mbit/s  
95th percentile per-packet one-way delay: 116.631 ms  
Loss rate: 0.95%  
-- Flow 3:  
Average throughput: 221.02 Mbit/s  
95th percentile per-packet one-way delay: 115.175 ms  
Loss rate: 2.86%

Run 2: Report of FillP — Data Link

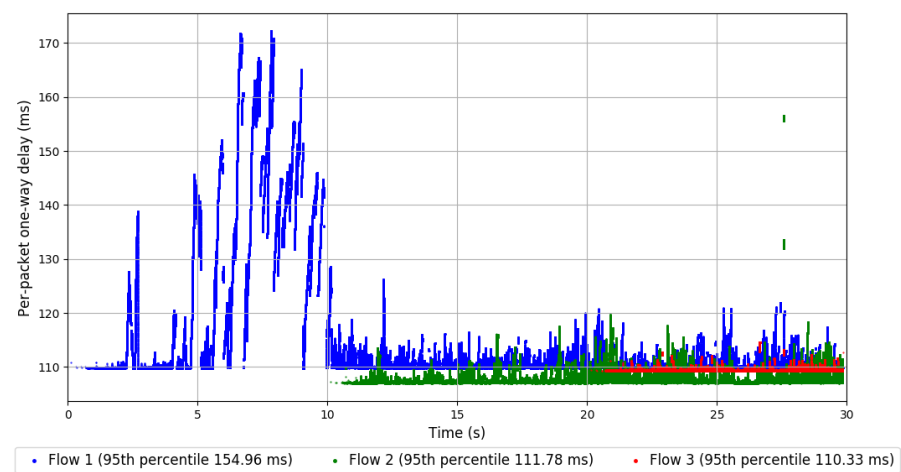
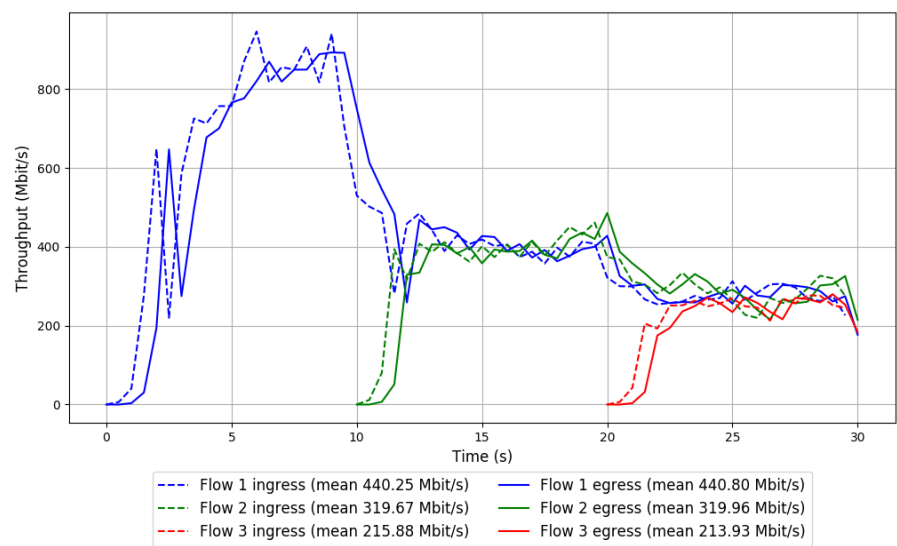


Run 3: Statistics of FillP

Start at: 2019-11-24 04:44:54  
End at: 2019-11-24 04:45:24  
Local clock offset: 0.149 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-11-24 07:56:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 722.63 Mbit/s  
95th percentile per-packet one-way delay: 148.134 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 440.80 Mbit/s  
95th percentile per-packet one-way delay: 154.956 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 319.96 Mbit/s  
95th percentile per-packet one-way delay: 111.778 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 213.93 Mbit/s  
95th percentile per-packet one-way delay: 110.327 ms  
Loss rate: 2.90%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-11-24 05:27:42

End at: 2019-11-24 05:28:12

Local clock offset: -0.08 ms

Remote clock offset: -0.44 ms

# Below is generated by plot.py at 2019-11-24 07:56:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 609.67 Mbit/s

95th percentile per-packet one-way delay: 115.138 ms

Loss rate: 0.89%

-- Flow 1:

Average throughput: 324.63 Mbit/s

95th percentile per-packet one-way delay: 119.902 ms

Loss rate: 0.58%

-- Flow 2:

Average throughput: 328.42 Mbit/s

95th percentile per-packet one-way delay: 113.147 ms

Loss rate: 0.80%

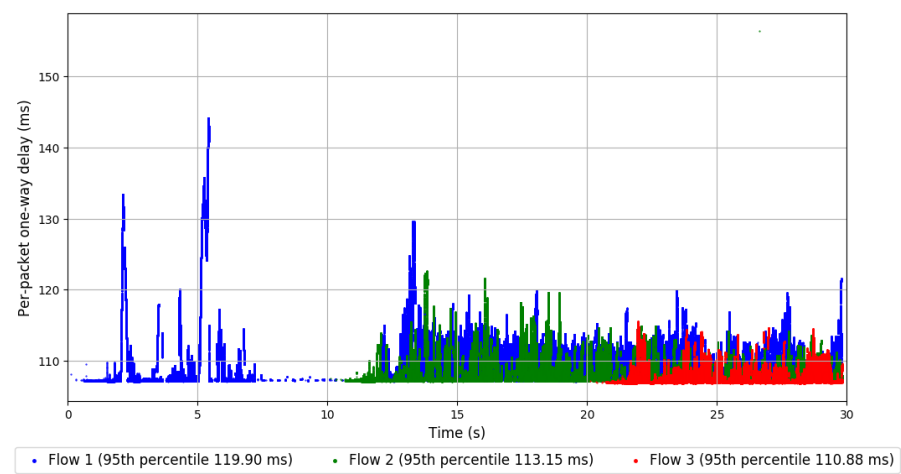
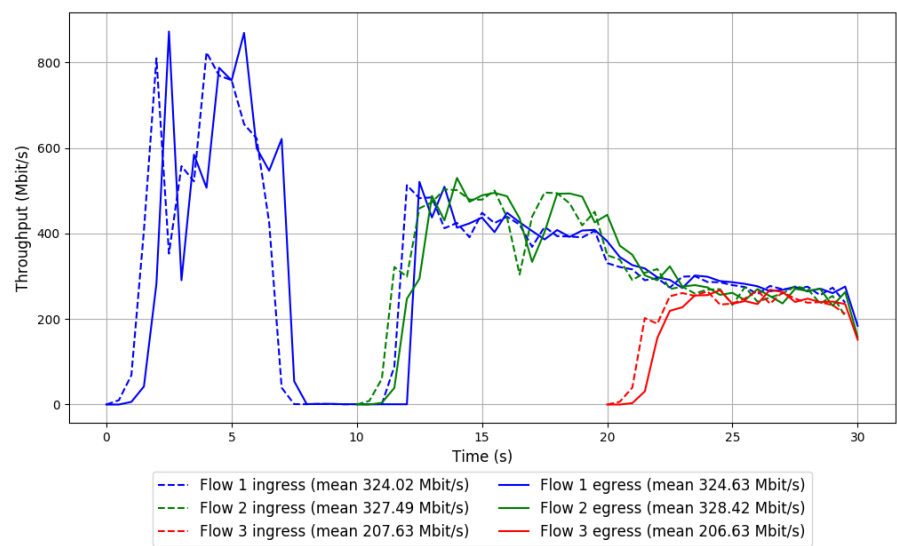
-- Flow 3:

Average throughput: 206.63 Mbit/s

95th percentile per-packet one-way delay: 110.883 ms

Loss rate: 2.65%

Run 4: Report of FillP — Data Link

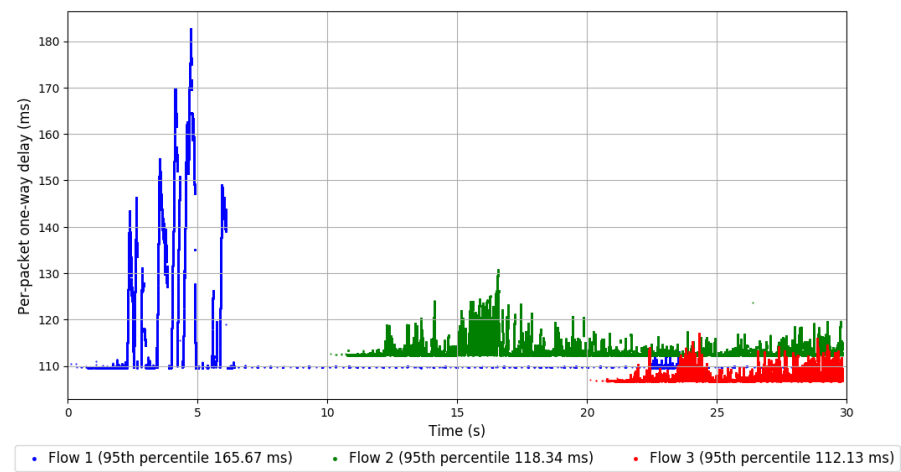
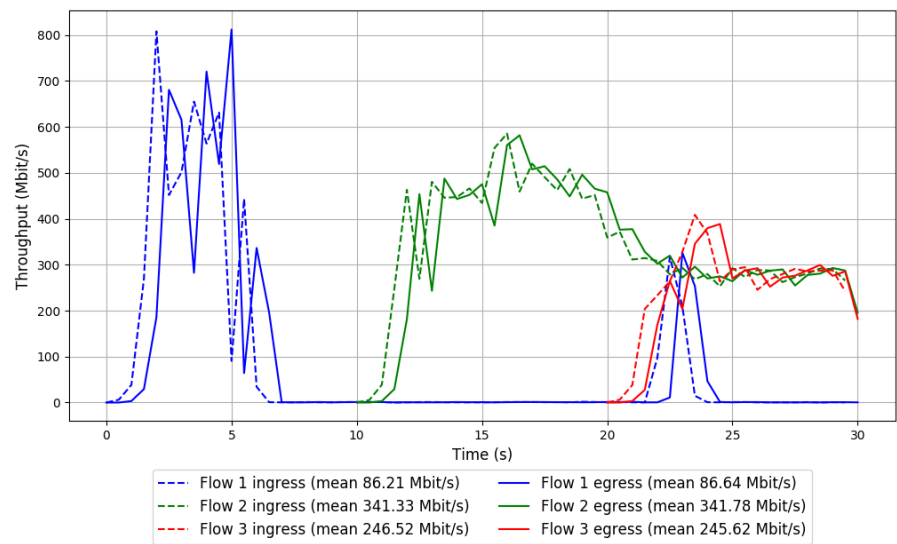


Run 5: Statistics of FillP

Start at: 2019-11-24 06:09:35  
End at: 2019-11-24 06:10:05  
Local clock offset: 0.068 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-11-24 07:56:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 392.78 Mbit/s  
95th percentile per-packet one-way delay: 146.061 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 86.64 Mbit/s  
95th percentile per-packet one-way delay: 165.670 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 341.78 Mbit/s  
95th percentile per-packet one-way delay: 118.342 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 245.62 Mbit/s  
95th percentile per-packet one-way delay: 112.126 ms  
Loss rate: 2.52%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 03:34:02

End at: 2019-11-24 03:34:32

Local clock offset: 0.039 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-11-24 07:57:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 705.77 Mbit/s

95th percentile per-packet one-way delay: 152.413 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 435.58 Mbit/s

95th percentile per-packet one-way delay: 161.410 ms

Loss rate: 1.87%

-- Flow 2:

Average throughput: 300.46 Mbit/s

95th percentile per-packet one-way delay: 113.215 ms

Loss rate: 1.20%

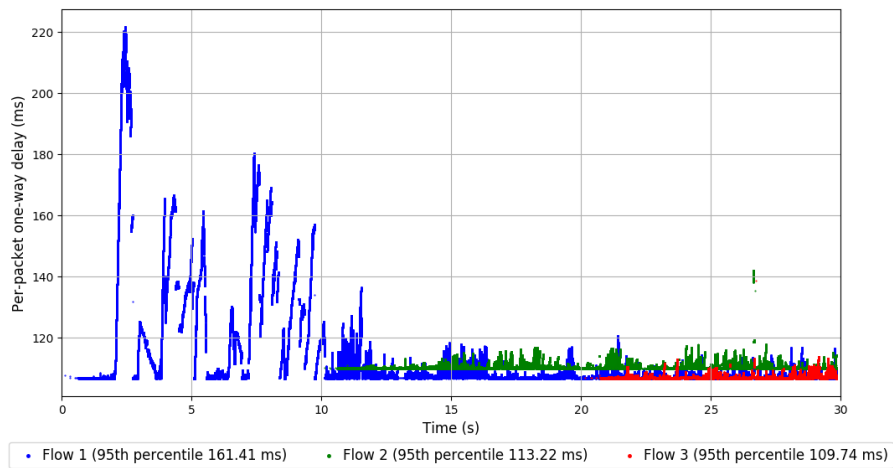
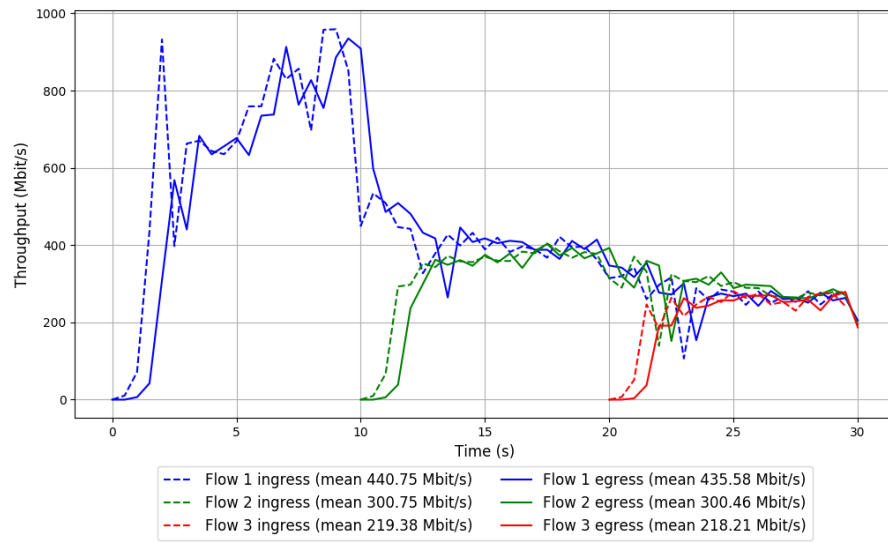
-- Flow 3:

Average throughput: 218.21 Mbit/s

95th percentile per-packet one-way delay: 109.740 ms

Loss rate: 2.72%

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

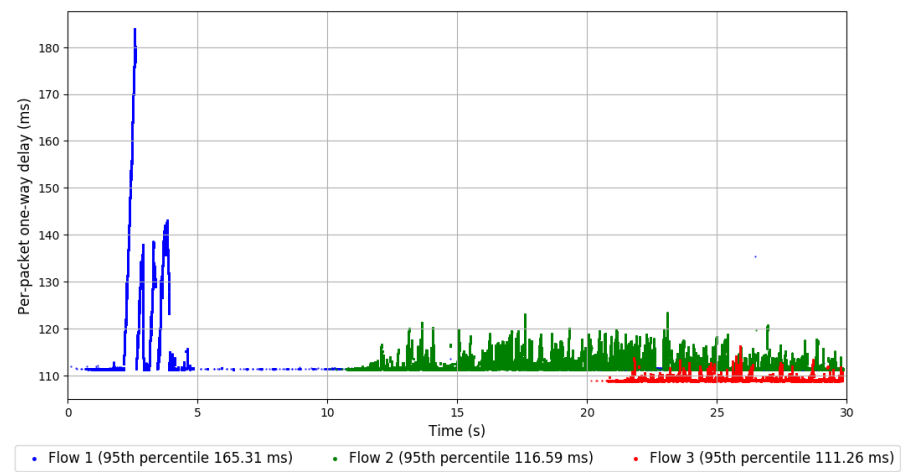
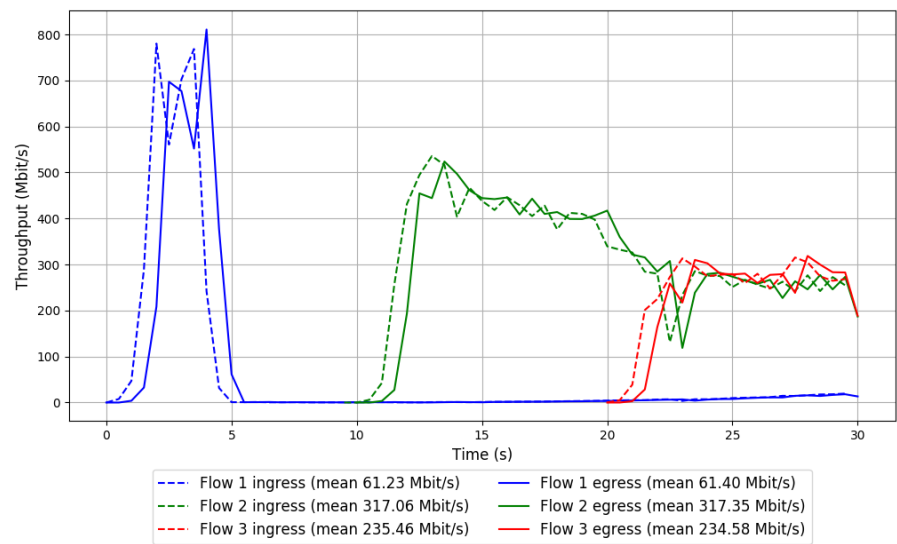


Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 04:16:42  
End at: 2019-11-24 04:17:12  
Local clock offset: -0.07 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-11-24 07:57:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 348.54 Mbit/s  
95th percentile per-packet one-way delay: 132.494 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 61.40 Mbit/s  
95th percentile per-packet one-way delay: 165.312 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 317.35 Mbit/s  
95th percentile per-packet one-way delay: 116.591 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 234.58 Mbit/s  
95th percentile per-packet one-way delay: 111.263 ms  
Loss rate: 2.66%

Run 2: Report of FillP-Sheep — Data Link

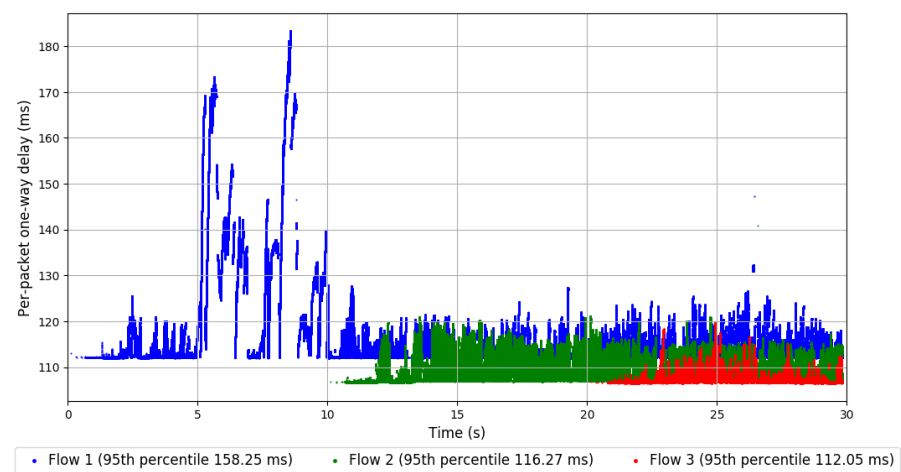
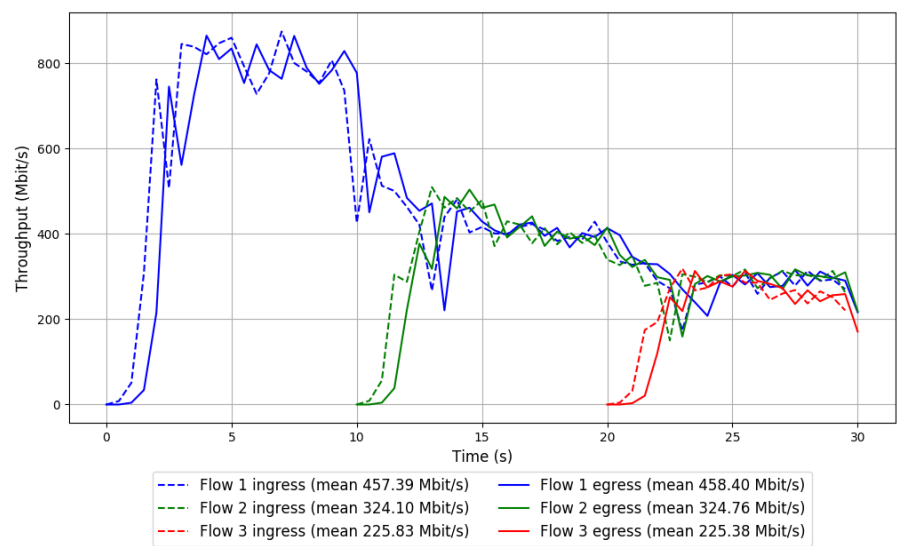


Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 04:59:28  
End at: 2019-11-24 04:59:58  
Local clock offset: -0.227 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-11-24 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 747.20 Mbit/s  
95th percentile per-packet one-way delay: 141.362 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 458.40 Mbit/s  
95th percentile per-packet one-way delay: 158.247 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 324.76 Mbit/s  
95th percentile per-packet one-way delay: 116.265 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 225.38 Mbit/s  
95th percentile per-packet one-way delay: 112.046 ms  
Loss rate: 2.37%

Run 3: Report of FillP-Sheep — Data Link

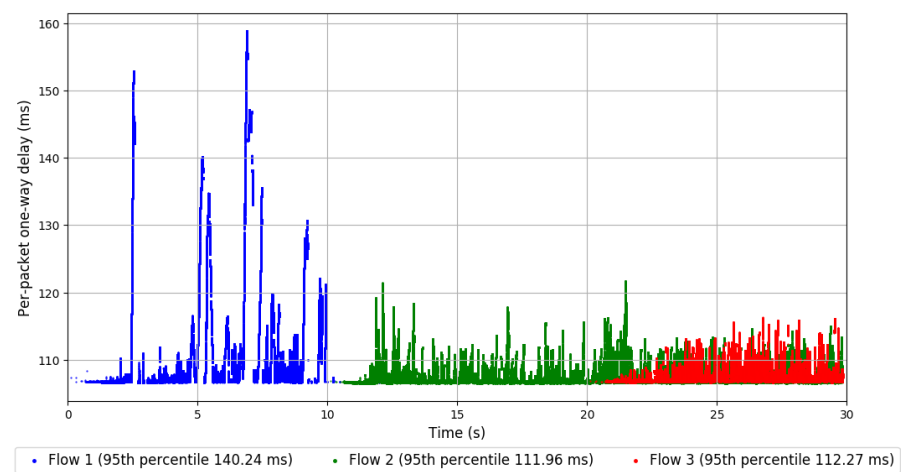
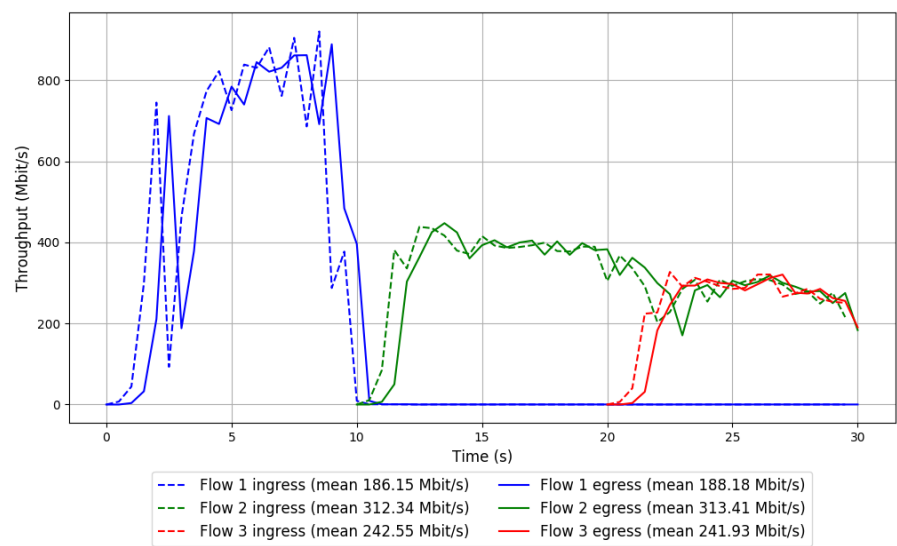


Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 05:42:00  
End at: 2019-11-24 05:42:30  
Local clock offset: -0.08 ms  
Remote clock offset: -0.119 ms

# Below is generated by plot.py at 2019-11-24 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 474.33 Mbit/s  
95th percentile per-packet one-way delay: 126.456 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 188.18 Mbit/s  
95th percentile per-packet one-way delay: 140.244 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 313.41 Mbit/s  
95th percentile per-packet one-way delay: 111.963 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 241.93 Mbit/s  
95th percentile per-packet one-way delay: 112.271 ms  
Loss rate: 2.44%

Run 4: Report of FillP-Sheep — Data Link



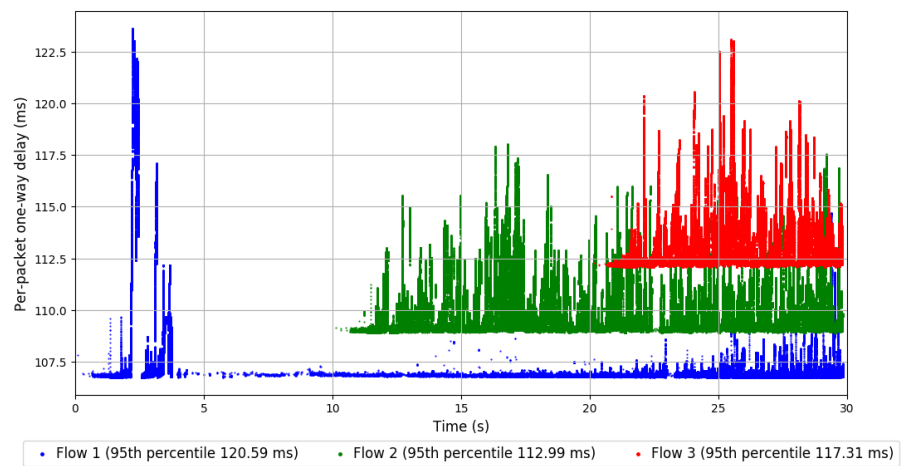
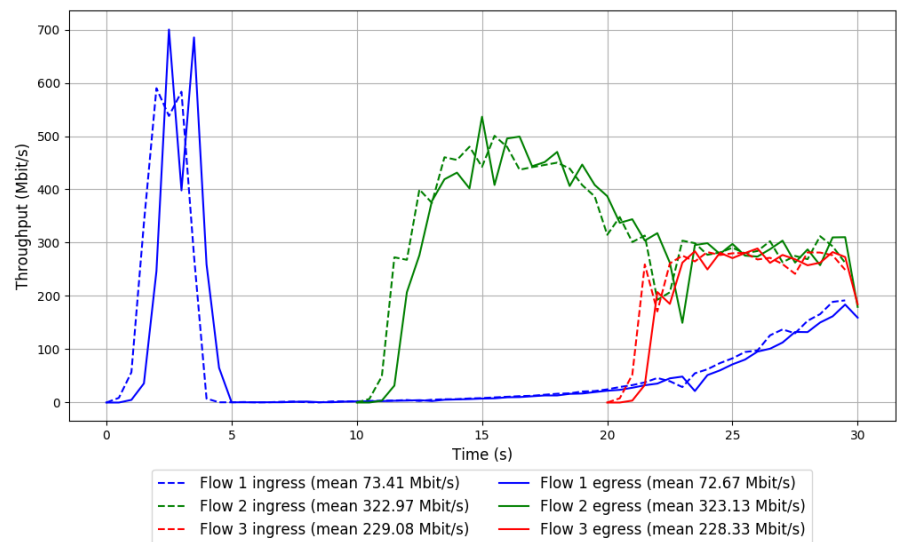


Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 06:23:47  
End at: 2019-11-24 06:24:17  
Local clock offset: -0.18 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-11-24 07:59:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 361.17 Mbit/s  
95th percentile per-packet one-way delay: 115.330 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 72.67 Mbit/s  
95th percentile per-packet one-way delay: 120.592 ms  
Loss rate: 1.72%  
-- Flow 2:  
Average throughput: 323.13 Mbit/s  
95th percentile per-packet one-way delay: 112.989 ms  
Loss rate: 1.02%  
-- Flow 3:  
Average throughput: 228.33 Mbit/s  
95th percentile per-packet one-way delay: 117.315 ms  
Loss rate: 2.79%

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-11-24 03:32:14

End at: 2019-11-24 03:32:44

Local clock offset: -0.02 ms

Remote clock offset: 0.033 ms

# Below is generated by plot.py at 2019-11-24 08:00:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 296.65 Mbit/s

95th percentile per-packet one-way delay: 111.638 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 153.82 Mbit/s

95th percentile per-packet one-way delay: 112.254 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 146.40 Mbit/s

95th percentile per-packet one-way delay: 109.692 ms

Loss rate: 1.21%

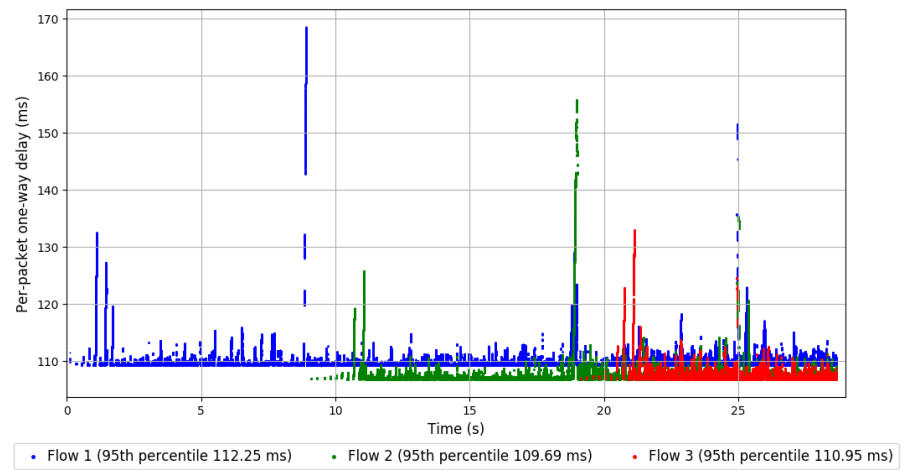
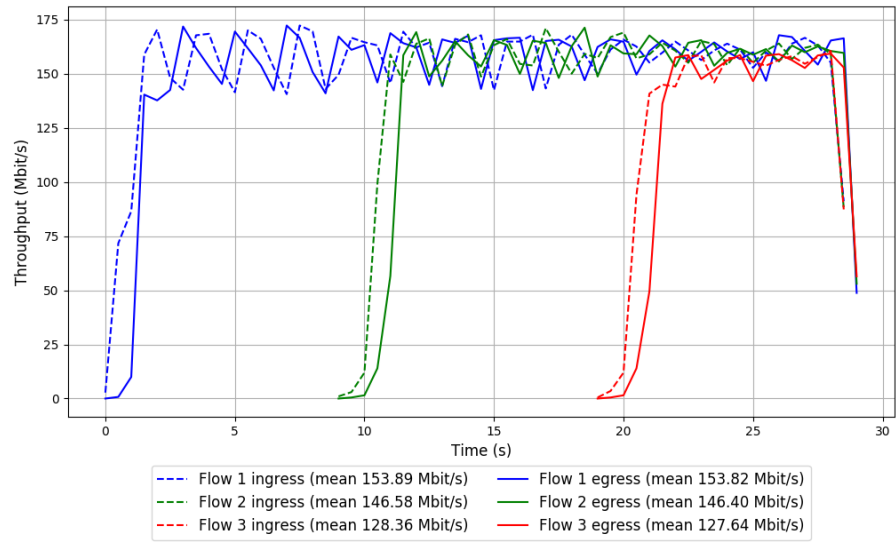
-- Flow 3:

Average throughput: 127.64 Mbit/s

95th percentile per-packet one-way delay: 110.953 ms

Loss rate: 2.76%

## Run 1: Report of Indigo — Data Link

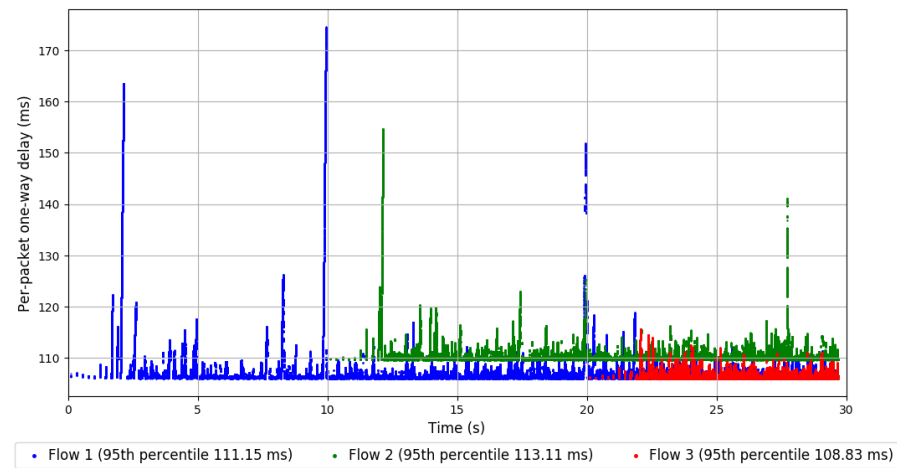
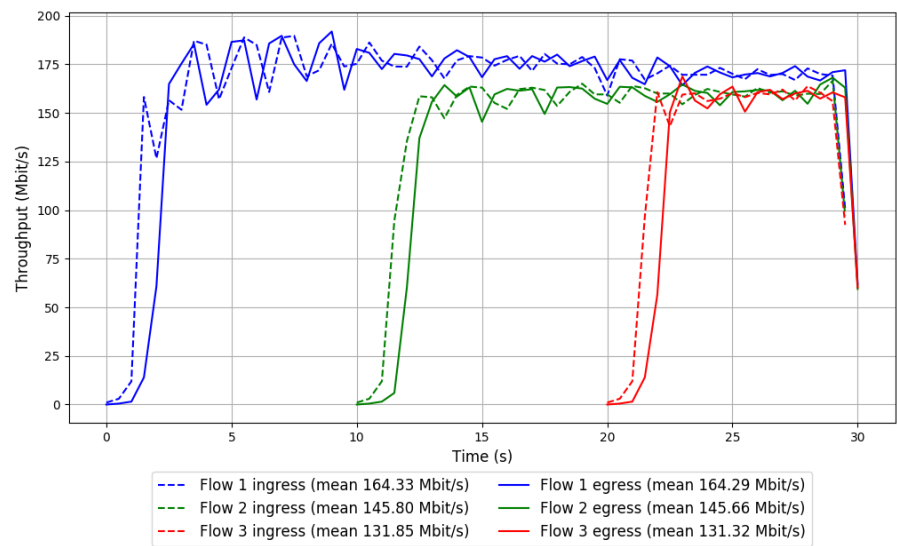


Run 2: Statistics of Indigo

Start at: 2019-11-24 04:14:52  
End at: 2019-11-24 04:15:22  
Local clock offset: -0.077 ms  
Remote clock offset: -0.106 ms

# Below is generated by plot.py at 2019-11-24 08:00:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 303.08 Mbit/s  
95th percentile per-packet one-way delay: 112.115 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 164.29 Mbit/s  
95th percentile per-packet one-way delay: 111.148 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 145.66 Mbit/s  
95th percentile per-packet one-way delay: 113.110 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 131.32 Mbit/s  
95th percentile per-packet one-way delay: 108.834 ms  
Loss rate: 2.61%

Run 2: Report of Indigo — Data Link

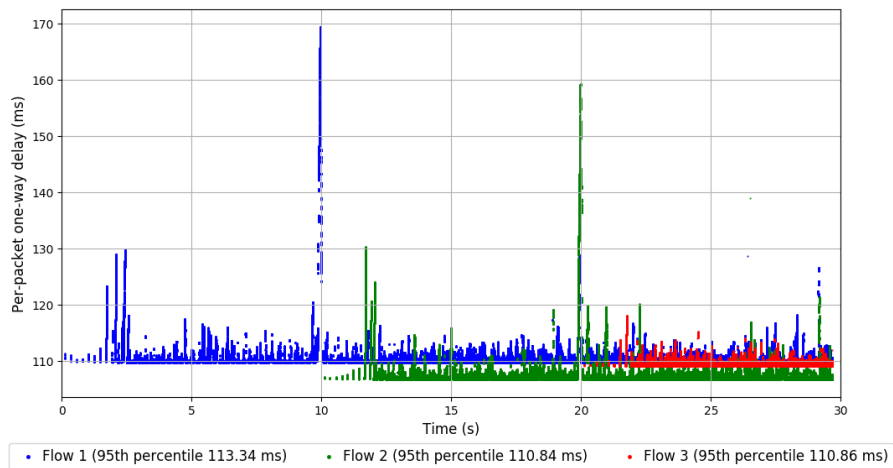
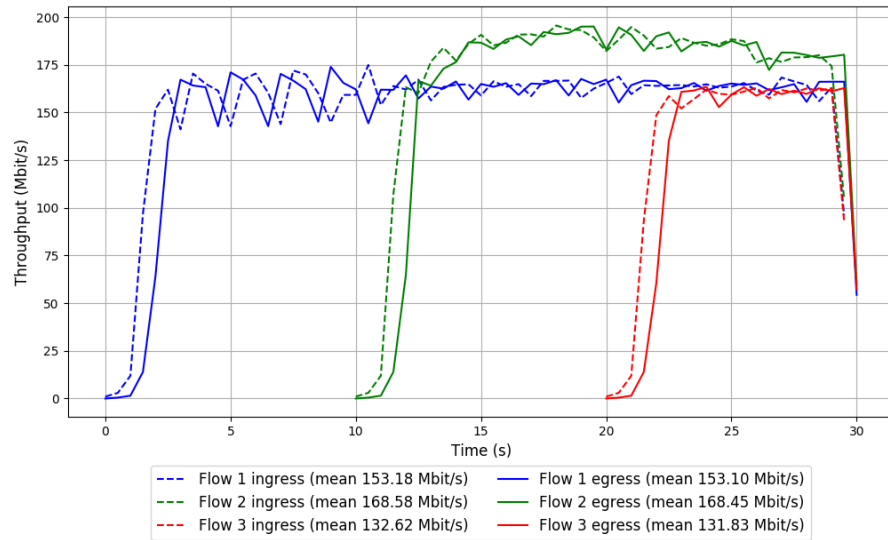


Run 3: Statistics of Indigo

Start at: 2019-11-24 04:57:37  
End at: 2019-11-24 04:58:07  
Local clock offset: -0.214 ms  
Remote clock offset: -0.049 ms

# Below is generated by plot.py at 2019-11-24 08:05:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 307.14 Mbit/s  
95th percentile per-packet one-way delay: 112.512 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 153.10 Mbit/s  
95th percentile per-packet one-way delay: 113.345 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 168.45 Mbit/s  
95th percentile per-packet one-way delay: 110.843 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 131.83 Mbit/s  
95th percentile per-packet one-way delay: 110.859 ms  
Loss rate: 2.74%

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





Run 4: Statistics of Indigo

Start at: 2019-11-24 05:40:10

End at: 2019-11-24 05:40:40

Local clock offset: 0.048 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-11-24 08:05:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 293.76 Mbit/s

95th percentile per-packet one-way delay: 111.832 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 155.59 Mbit/s

95th percentile per-packet one-way delay: 112.686 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 147.60 Mbit/s

95th percentile per-packet one-way delay: 108.919 ms

Loss rate: 1.19%

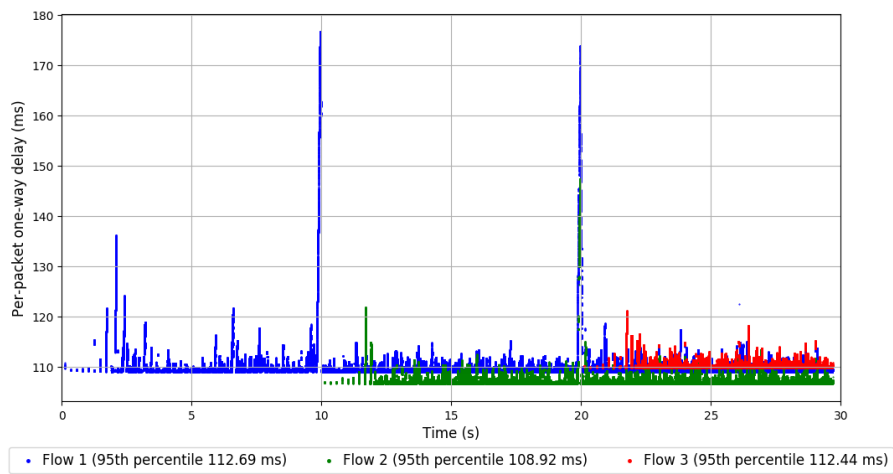
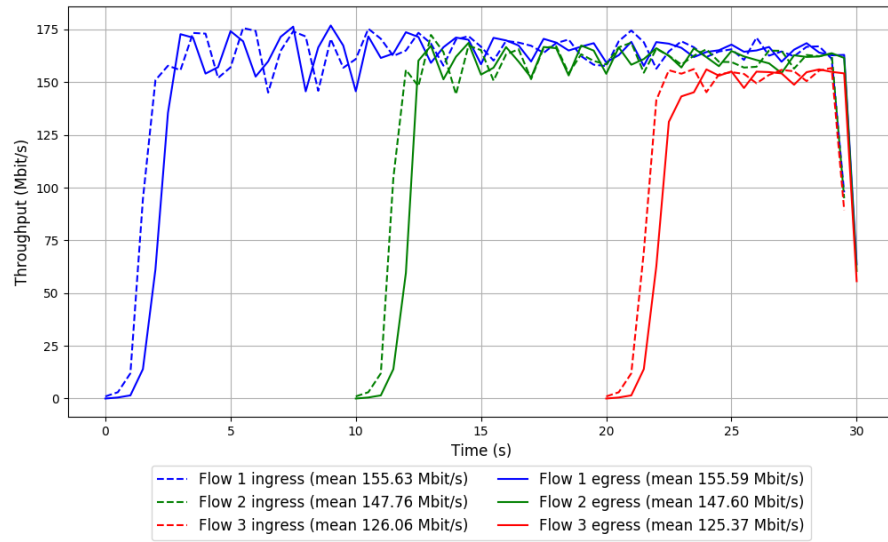
-- Flow 3:

Average throughput: 125.37 Mbit/s

95th percentile per-packet one-way delay: 112.435 ms

Loss rate: 2.77%

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



Run 5: Statistics of Indigo

Start at: 2019-11-24 06:21:57

End at: 2019-11-24 06:22:27

Local clock offset: -0.193 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-11-24 08:08:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 296.60 Mbit/s

95th percentile per-packet one-way delay: 112.037 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 156.35 Mbit/s

95th percentile per-packet one-way delay: 112.966 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 150.12 Mbit/s

95th percentile per-packet one-way delay: 110.932 ms

Loss rate: 1.19%

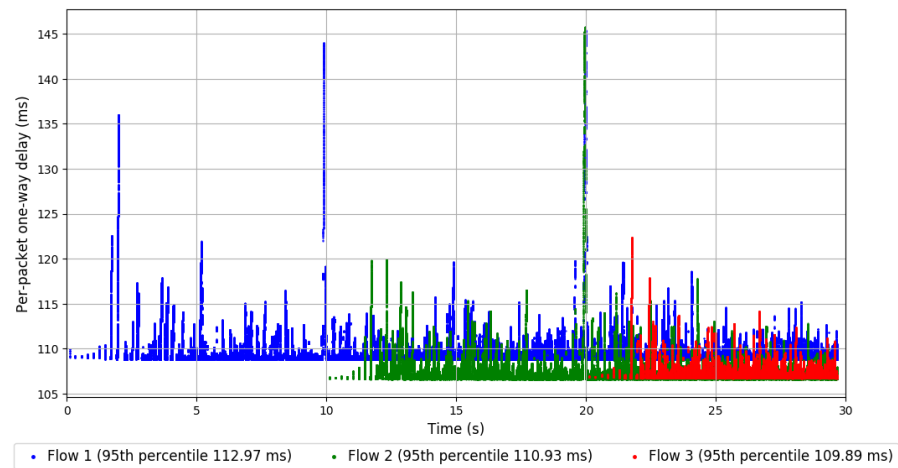
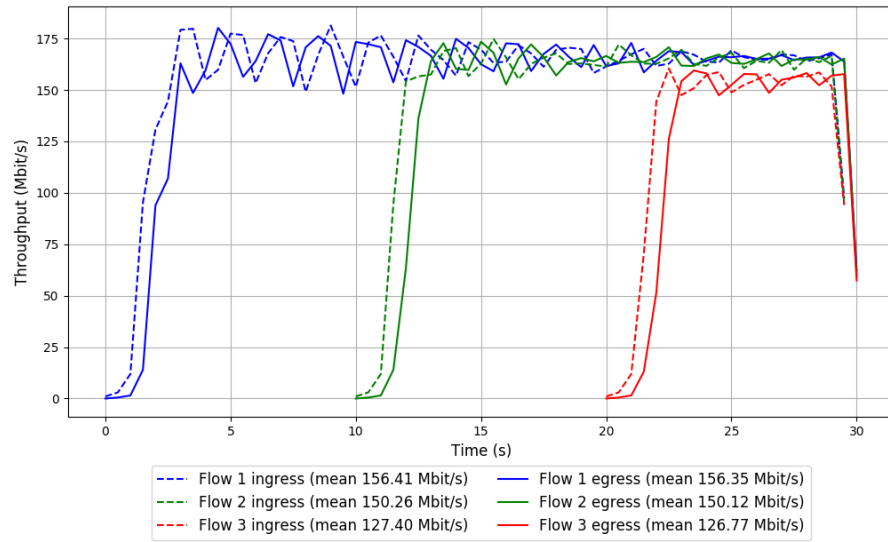
-- Flow 3:

Average throughput: 126.77 Mbit/s

95th percentile per-packet one-way delay: 109.893 ms

Loss rate: 2.71%

## Run 5: Report of Indigo — Data Link

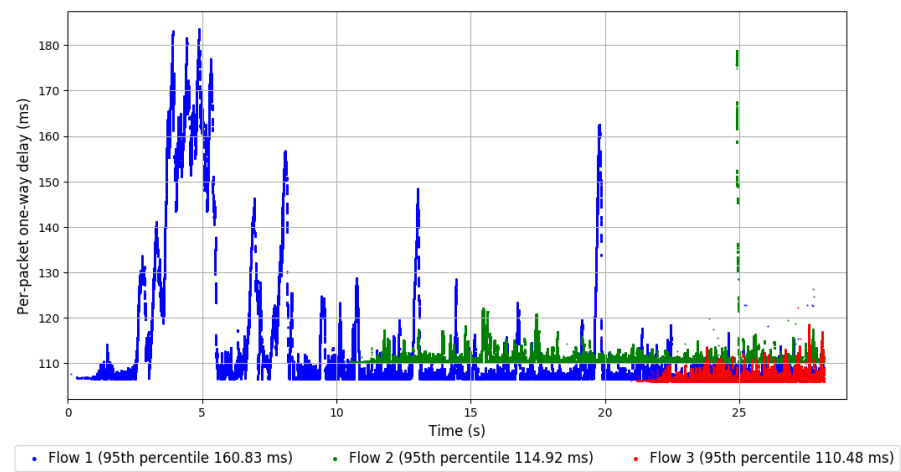
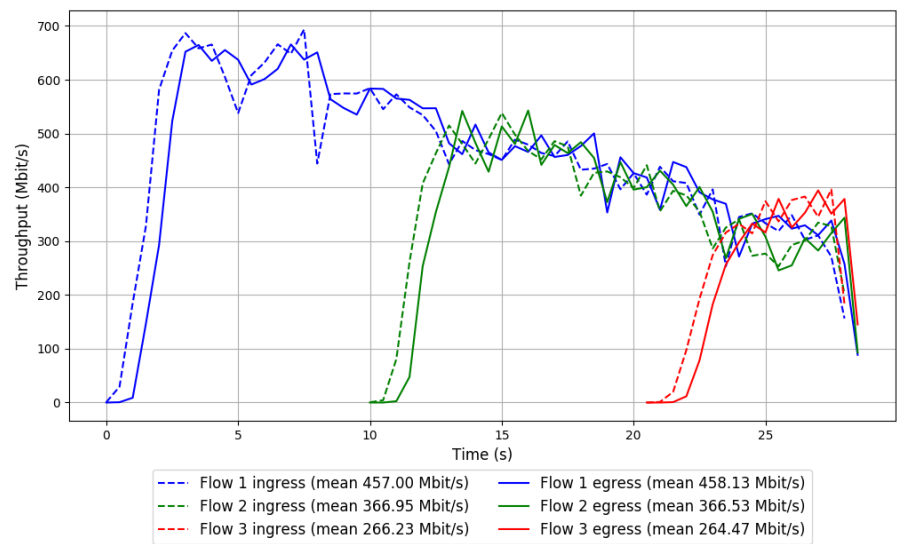


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 03:47:57  
End at: 2019-11-24 03:48:27  
Local clock offset: -0.033 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-11-24 08:12:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 759.21 Mbit/s  
95th percentile per-packet one-way delay: 152.765 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 458.13 Mbit/s  
95th percentile per-packet one-way delay: 160.833 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 366.53 Mbit/s  
95th percentile per-packet one-way delay: 114.920 ms  
Loss rate: 1.34%  
-- Flow 3:  
Average throughput: 264.47 Mbit/s  
95th percentile per-packet one-way delay: 110.484 ms  
Loss rate: 3.55%

Run 1: Report of Indigo-MusesC3 — Data Link

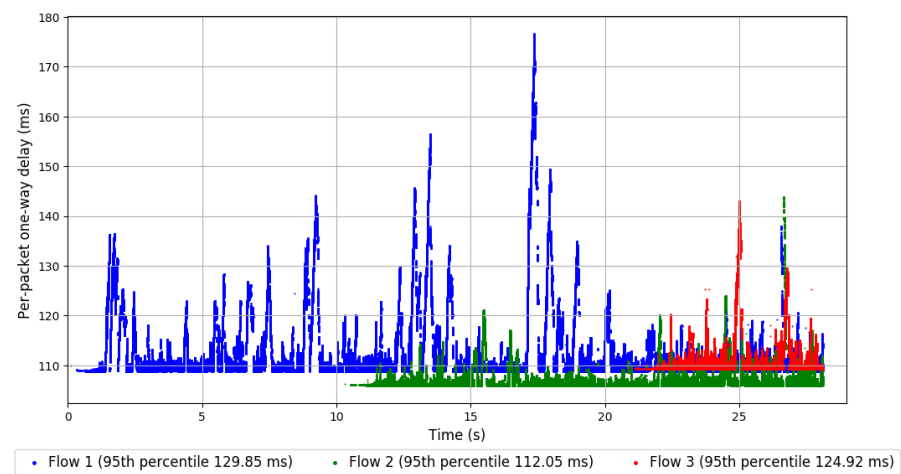
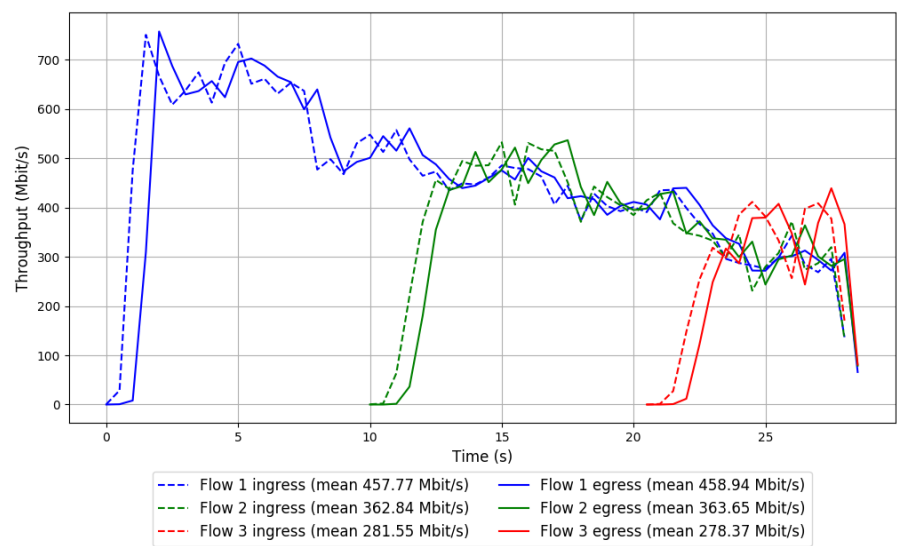


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 04:30:31  
End at: 2019-11-24 04:31:01  
Local clock offset: -0.096 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-11-24 08:12:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 761.61 Mbit/s  
95th percentile per-packet one-way delay: 125.750 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 458.94 Mbit/s  
95th percentile per-packet one-way delay: 129.847 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 363.65 Mbit/s  
95th percentile per-packet one-way delay: 112.052 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 278.37 Mbit/s  
95th percentile per-packet one-way delay: 124.921 ms  
Loss rate: 4.07%

Run 2: Report of Indigo-MusesC3 — Data Link





Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 05:13:15

End at: 2019-11-24 05:13:45

Local clock offset: 0.056 ms

Remote clock offset: 0.33 ms

# Below is generated by plot.py at 2019-11-24 08:14:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 721.88 Mbit/s

95th percentile per-packet one-way delay: 134.059 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 424.01 Mbit/s

95th percentile per-packet one-way delay: 137.246 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 364.10 Mbit/s

95th percentile per-packet one-way delay: 129.248 ms

Loss rate: 1.17%

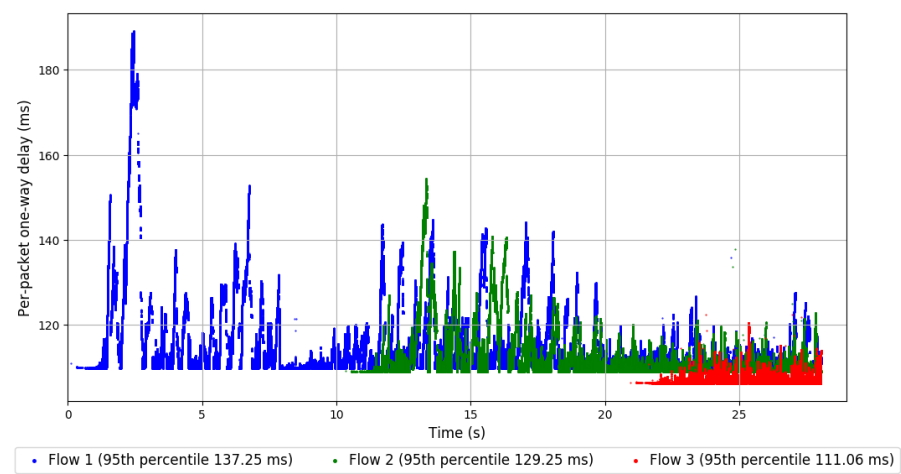
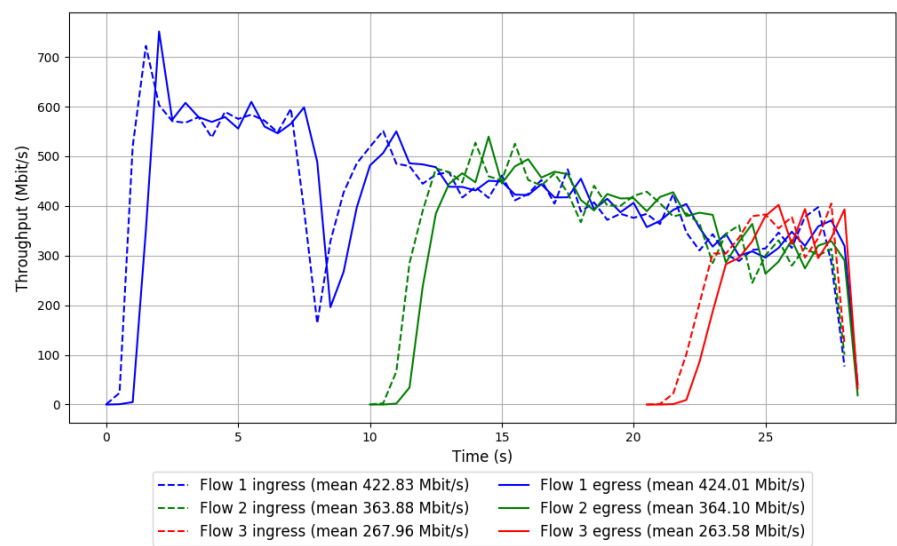
-- Flow 3:

Average throughput: 263.58 Mbit/s

95th percentile per-packet one-way delay: 111.063 ms

Loss rate: 4.56%

Run 3: Report of Indigo-MusesC3 — Data Link

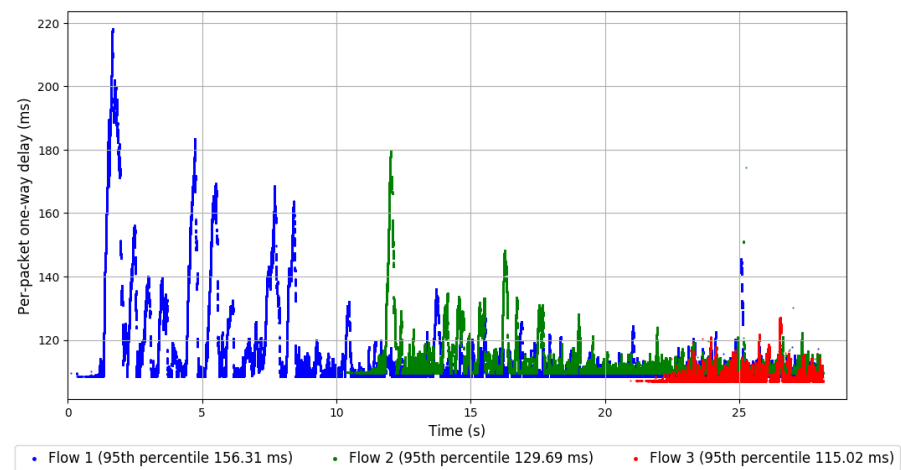
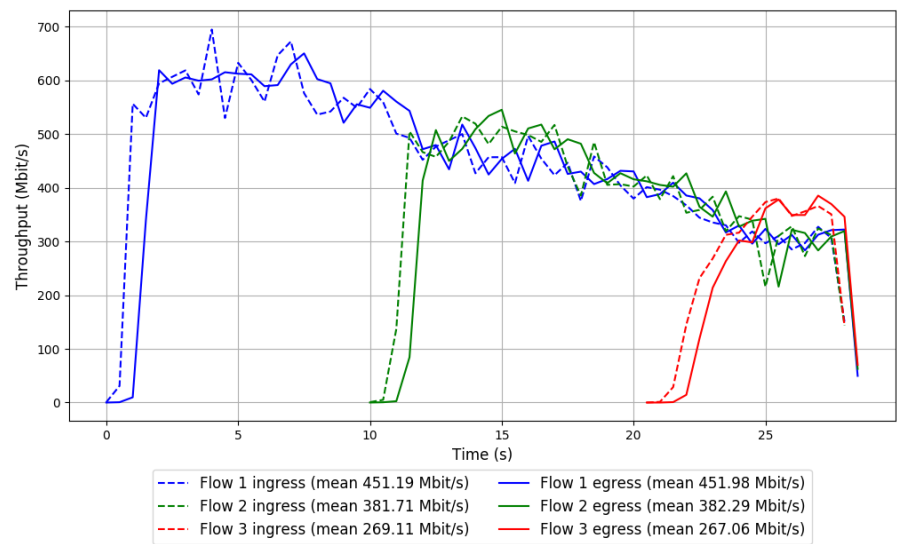


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 05:55:09  
End at: 2019-11-24 05:55:39  
Local clock offset: 0.078 ms  
Remote clock offset: -0.071 ms

# Below is generated by plot.py at 2019-11-24 08:15:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 765.24 Mbit/s  
95th percentile per-packet one-way delay: 144.274 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 451.98 Mbit/s  
95th percentile per-packet one-way delay: 156.306 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 382.29 Mbit/s  
95th percentile per-packet one-way delay: 129.691 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 267.06 Mbit/s  
95th percentile per-packet one-way delay: 115.018 ms  
Loss rate: 3.68%

Run 4: Report of Indigo-MusesC3 — Data Link

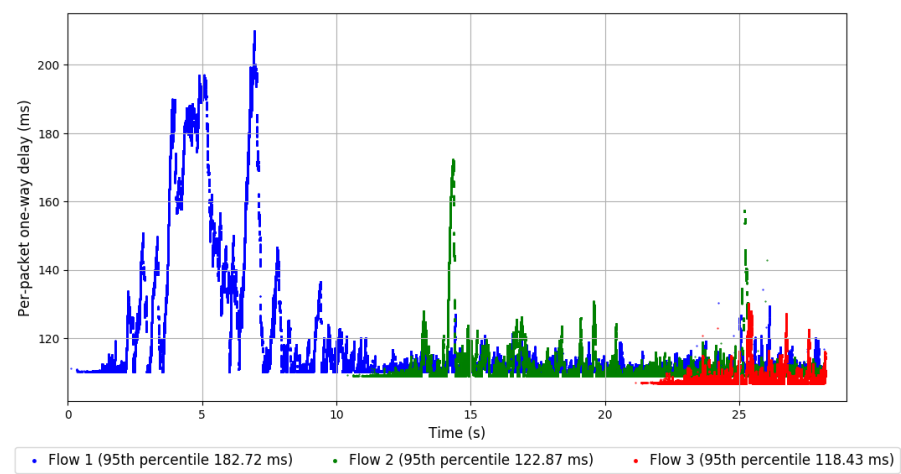
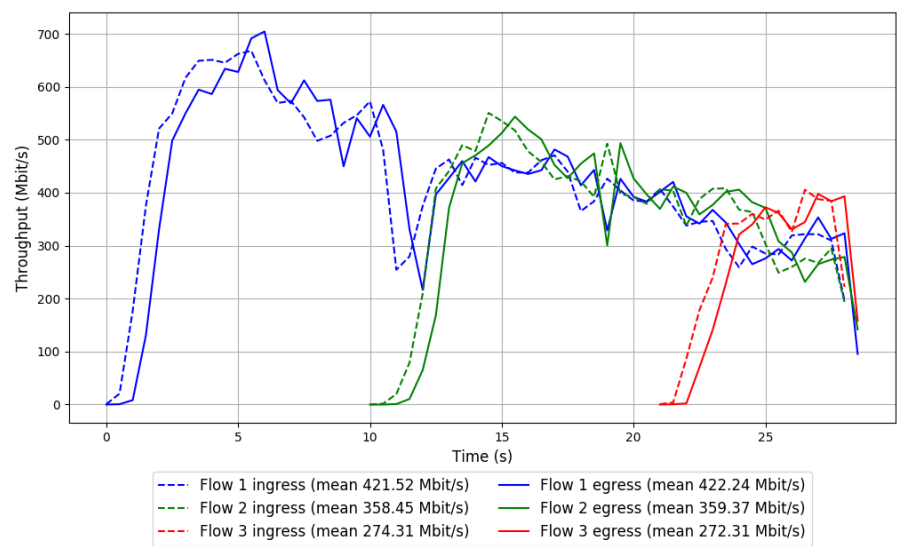


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 06:37:23  
End at: 2019-11-24 06:37:53  
Local clock offset: -0.137 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-11-24 08:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 718.47 Mbit/s  
95th percentile per-packet one-way delay: 169.133 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 422.24 Mbit/s  
95th percentile per-packet one-way delay: 182.723 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 359.37 Mbit/s  
95th percentile per-packet one-way delay: 122.874 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 272.31 Mbit/s  
95th percentile per-packet one-way delay: 118.427 ms  
Loss rate: 3.69%

Run 5: Report of Indigo-MusesC3 — Data Link

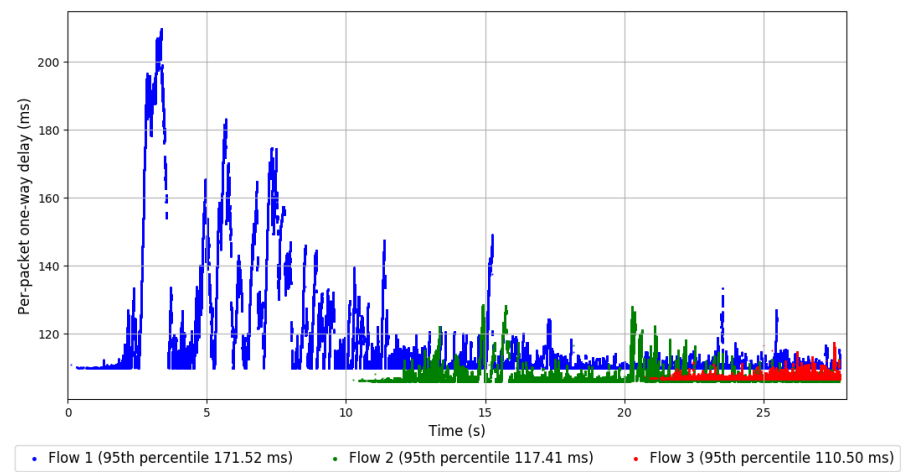
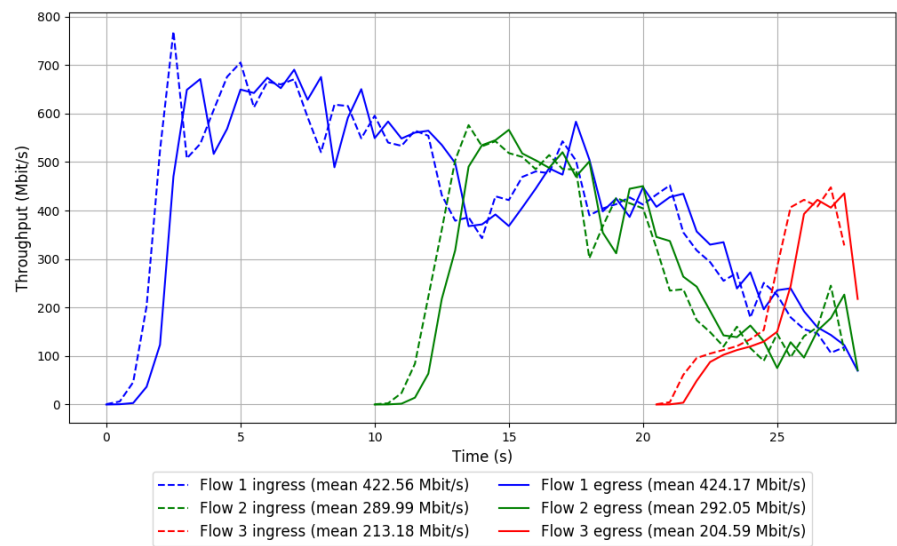


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 03:17:47  
End at: 2019-11-24 03:18:17  
Local clock offset: -0.126 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-11-24 08:18:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 660.74 Mbit/s  
95th percentile per-packet one-way delay: 158.785 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 424.17 Mbit/s  
95th percentile per-packet one-way delay: 171.517 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 292.05 Mbit/s  
95th percentile per-packet one-way delay: 117.406 ms  
Loss rate: 0.65%  
-- Flow 3:  
Average throughput: 204.59 Mbit/s  
95th percentile per-packet one-way delay: 110.501 ms  
Loss rate: 6.88%

Run 1: Report of Indigo-MusesC5 — Data Link



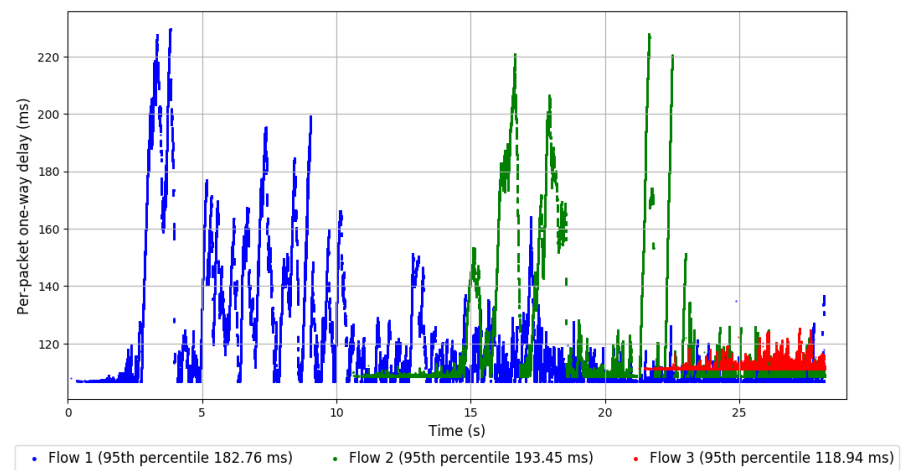
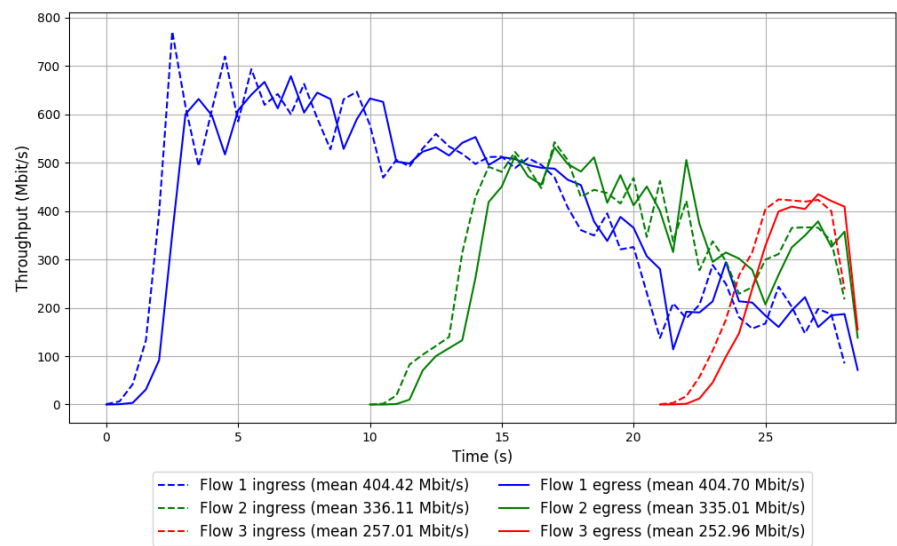


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 04:00:33  
End at: 2019-11-24 04:01:03  
Local clock offset: -0.219 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-11-24 08:19:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 678.94 Mbit/s  
95th percentile per-packet one-way delay: 184.748 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 404.70 Mbit/s  
95th percentile per-packet one-way delay: 182.763 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 335.01 Mbit/s  
95th percentile per-packet one-way delay: 193.453 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 252.96 Mbit/s  
95th percentile per-packet one-way delay: 118.937 ms  
Loss rate: 4.64%

Run 2: Report of Indigo-MusesC5 — Data Link

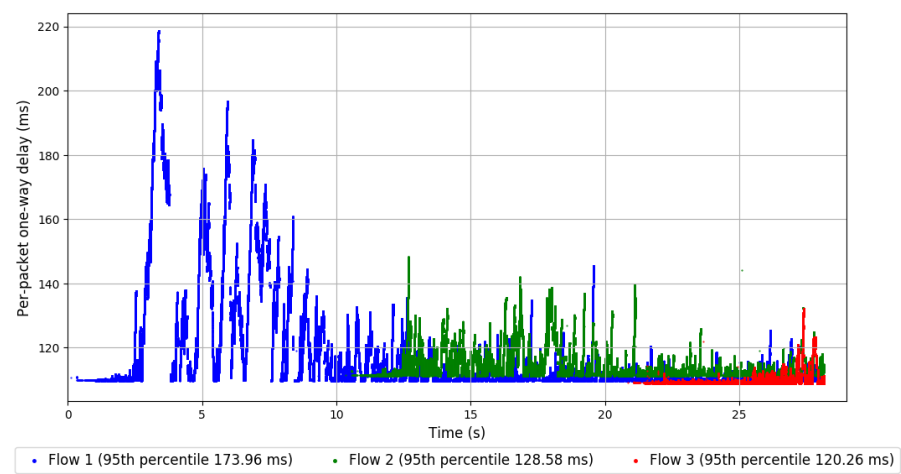
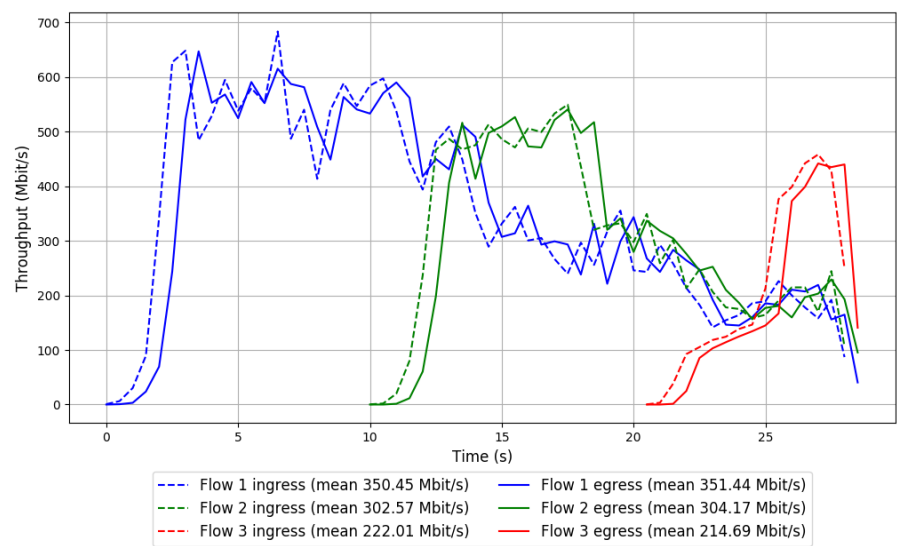


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 04:43:04  
End at: 2019-11-24 04:43:34  
Local clock offset: -0.154 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-11-24 08:20:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 600.12 Mbit/s  
95th percentile per-packet one-way delay: 158.606 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 351.44 Mbit/s  
95th percentile per-packet one-way delay: 173.962 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 304.17 Mbit/s  
95th percentile per-packet one-way delay: 128.577 ms  
Loss rate: 0.73%  
-- Flow 3:  
Average throughput: 214.69 Mbit/s  
95th percentile per-packet one-way delay: 120.261 ms  
Loss rate: 6.15%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 05:25:50

End at: 2019-11-24 05:26:20

Local clock offset: 0.06 ms

Remote clock offset: 0.272 ms

# Below is generated by plot.py at 2019-11-24 08:25:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 637.12 Mbit/s

95th percentile per-packet one-way delay: 154.644 ms

Loss rate: 1.07%

-- Flow 1:

Average throughput: 368.01 Mbit/s

95th percentile per-packet one-way delay: 160.377 ms

Loss rate: 0.49%

-- Flow 2:

Average throughput: 368.54 Mbit/s

95th percentile per-packet one-way delay: 126.608 ms

Loss rate: 0.40%

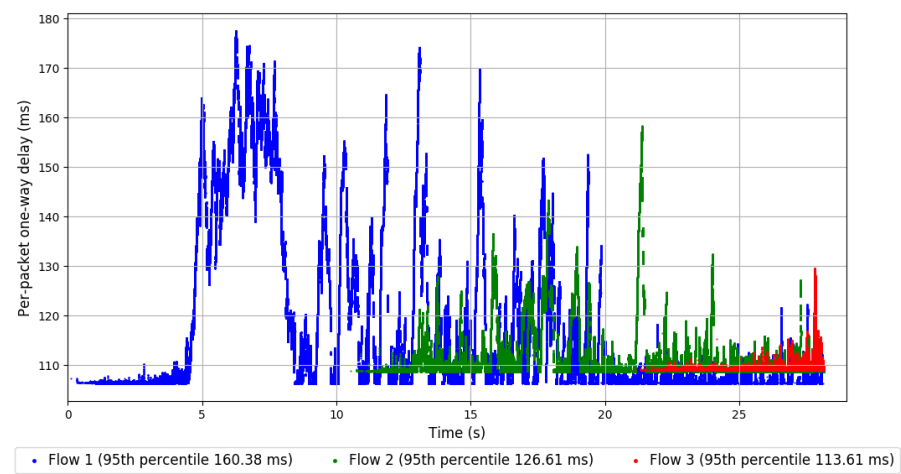
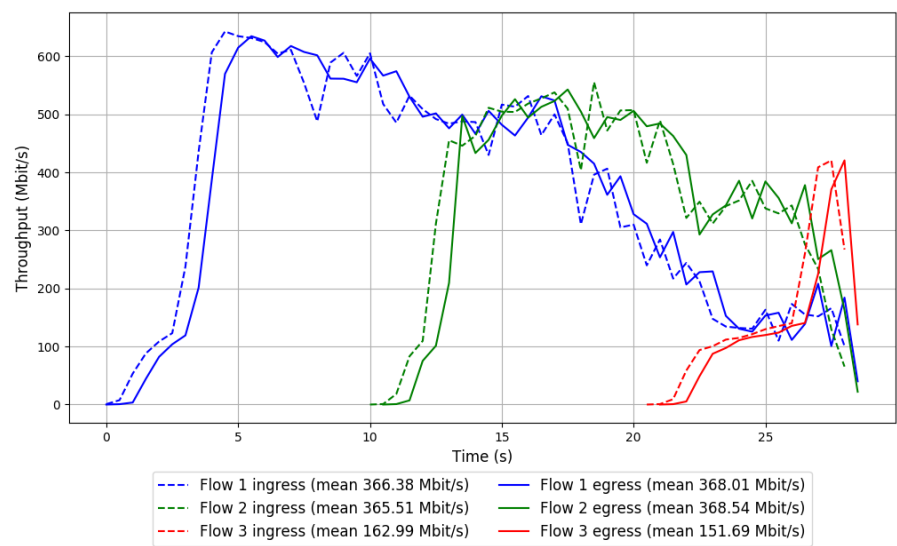
-- Flow 3:

Average throughput: 151.69 Mbit/s

95th percentile per-packet one-way delay: 113.609 ms

Loss rate: 9.76%

Run 4: Report of Indigo-MusesC5 — Data Link



Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 06:07:40

End at: 2019-11-24 06:08:10

Local clock offset: 0.079 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-11-24 08:26:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 676.04 Mbit/s

95th percentile per-packet one-way delay: 166.026 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 390.56 Mbit/s

95th percentile per-packet one-way delay: 178.928 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 351.32 Mbit/s

95th percentile per-packet one-way delay: 150.689 ms

Loss rate: 1.16%

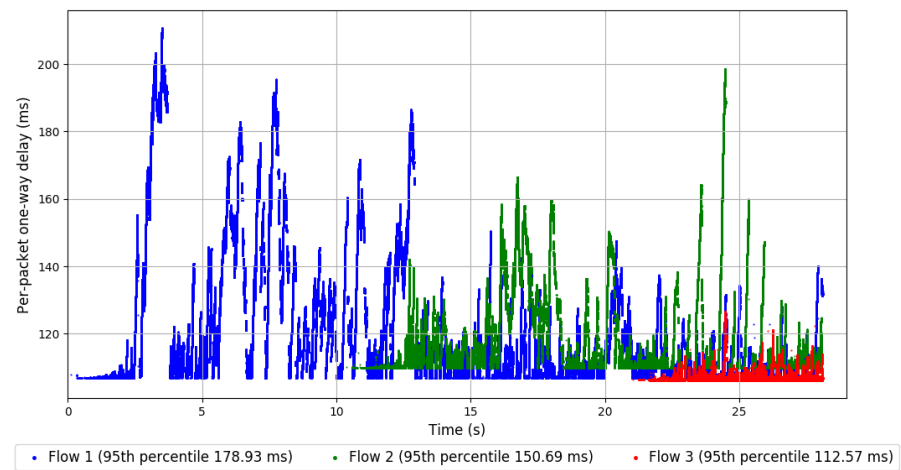
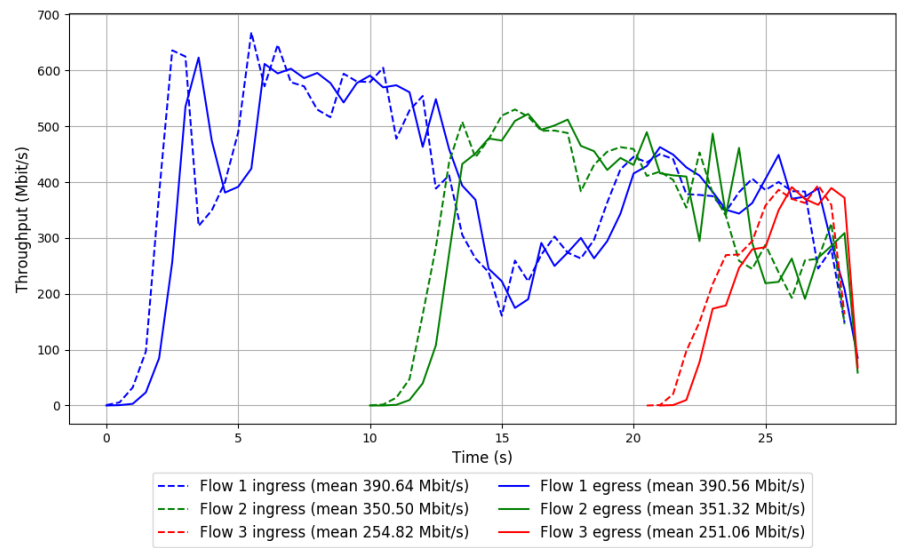
-- Flow 3:

Average throughput: 251.06 Mbit/s

95th percentile per-packet one-way delay: 112.569 ms

Loss rate: 4.41%

Run 5: Report of Indigo-MusesC5 — Data Link



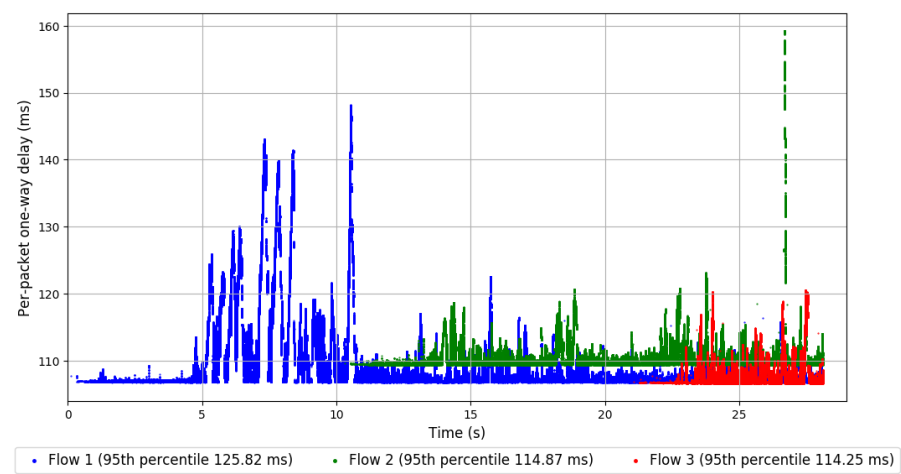
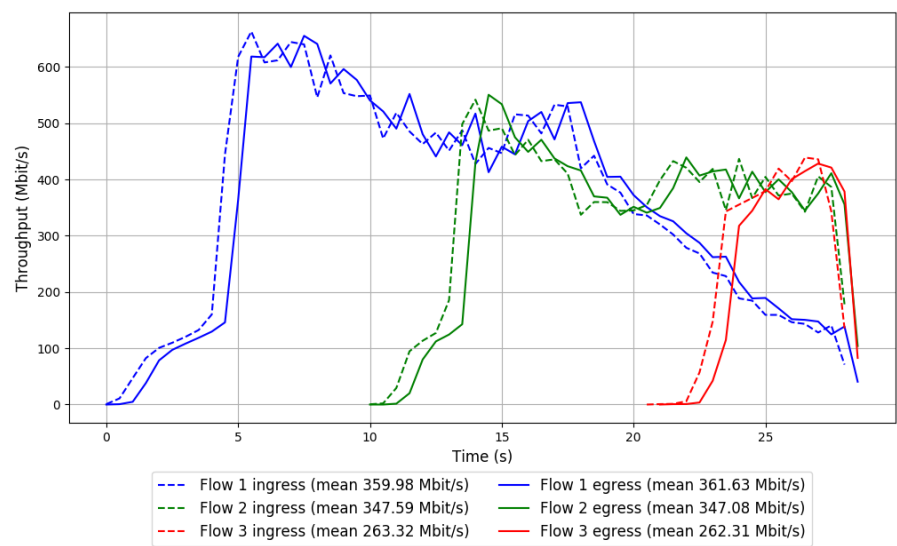


Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 03:22:38  
End at: 2019-11-24 03:23:08  
Local clock offset: -0.164 ms  
Remote clock offset: -0.003 ms

# Below is generated by plot.py at 2019-11-24 08:27:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 648.30 Mbit/s  
95th percentile per-packet one-way delay: 120.986 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 361.63 Mbit/s  
95th percentile per-packet one-way delay: 125.821 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 347.08 Mbit/s  
95th percentile per-packet one-way delay: 114.871 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 262.31 Mbit/s  
95th percentile per-packet one-way delay: 114.251 ms  
Loss rate: 3.36%

Run 1: Report of Indigo-MusesD — Data Link

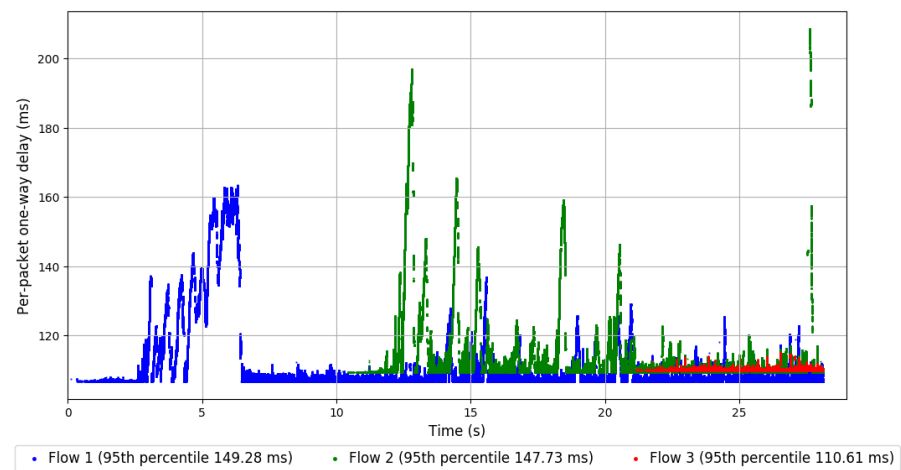
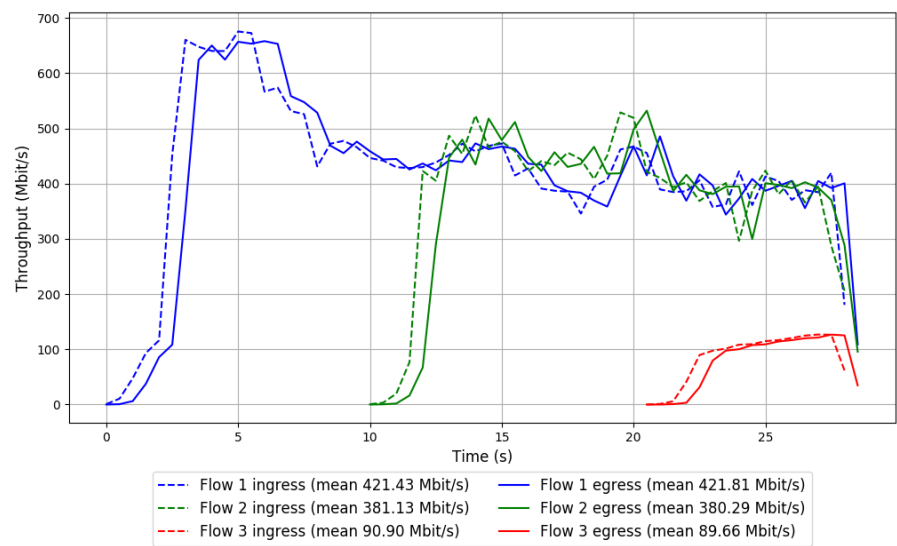


Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 04:05:22  
End at: 2019-11-24 04:05:52  
Local clock offset: -0.07 ms  
Remote clock offset: -0.141 ms

# Below is generated by plot.py at 2019-11-24 08:29:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 687.98 Mbit/s  
95th percentile per-packet one-way delay: 147.489 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 421.81 Mbit/s  
95th percentile per-packet one-way delay: 149.276 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 380.29 Mbit/s  
95th percentile per-packet one-way delay: 147.730 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 89.66 Mbit/s  
95th percentile per-packet one-way delay: 110.610 ms  
Loss rate: 4.31%

Run 2: Report of Indigo-MusesD — Data Link

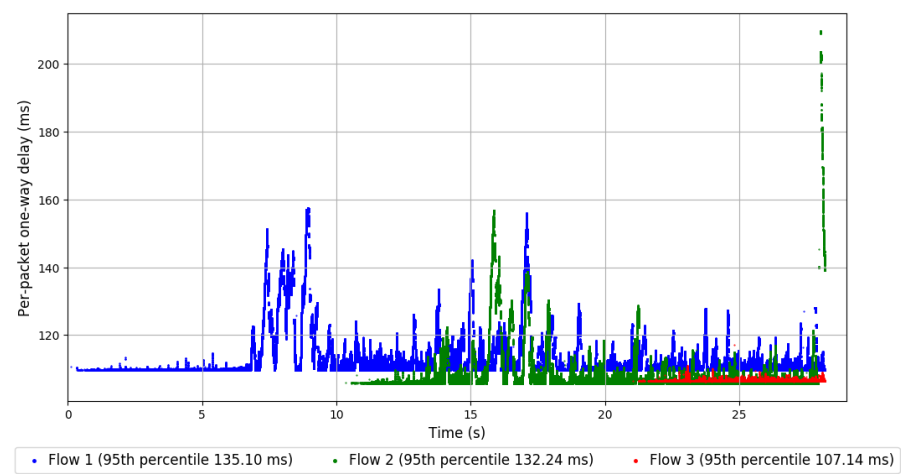
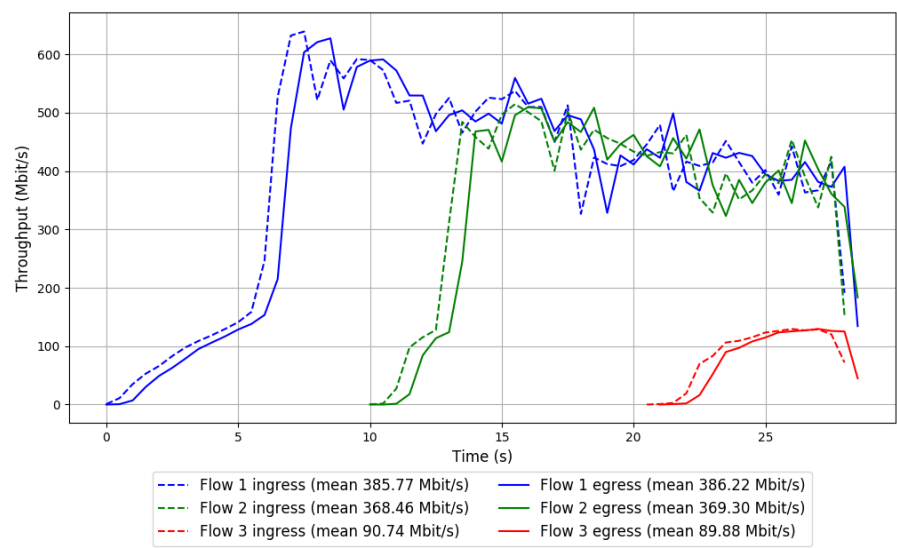


Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 04:48:02  
End at: 2019-11-24 04:48:32  
Local clock offset: -0.372 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-11-24 08:29:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 643.59 Mbit/s  
95th percentile per-packet one-way delay: 133.899 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 386.22 Mbit/s  
95th percentile per-packet one-way delay: 135.104 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 369.30 Mbit/s  
95th percentile per-packet one-way delay: 132.243 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 89.88 Mbit/s  
95th percentile per-packet one-way delay: 107.142 ms  
Loss rate: 3.83%

Run 3: Report of Indigo-MusesD — Data Link

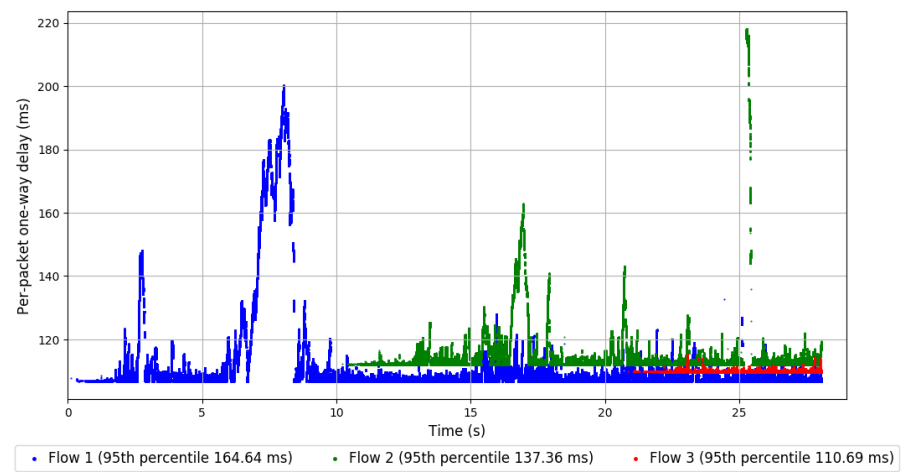
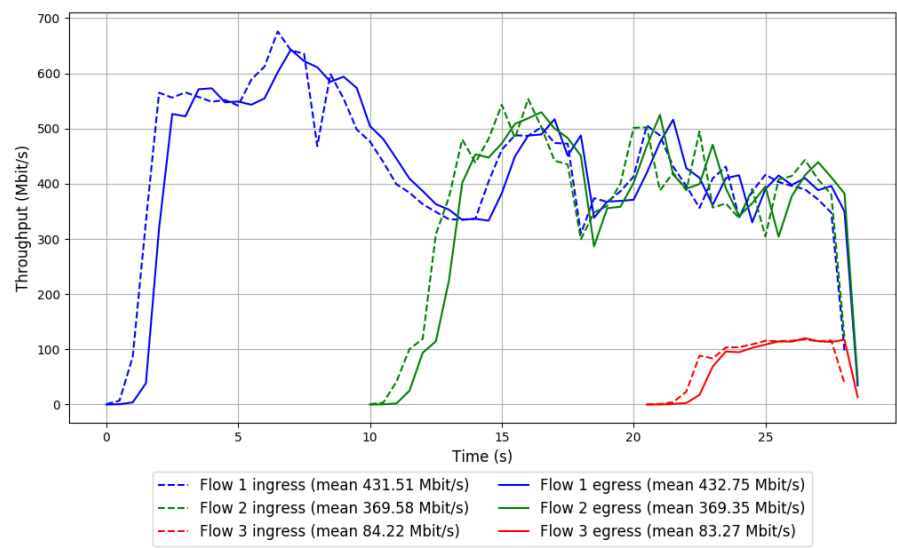


Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 05:30:46  
End at: 2019-11-24 05:31:16  
Local clock offset: 0.126 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-11-24 08:32:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 689.80 Mbit/s  
95th percentile per-packet one-way delay: 150.225 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 432.75 Mbit/s  
95th percentile per-packet one-way delay: 164.641 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 369.35 Mbit/s  
95th percentile per-packet one-way delay: 137.356 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 83.27 Mbit/s  
95th percentile per-packet one-way delay: 110.691 ms  
Loss rate: 4.09%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 06:12:29

End at: 2019-11-24 06:12:59

Local clock offset: -0.141 ms

Remote clock offset: 0.02 ms

# Below is generated by plot.py at 2019-11-24 08:32:54

# Datalink statistics

-- Total of 3 flows:

Average throughput: 653.53 Mbit/s

95th percentile per-packet one-way delay: 143.489 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 448.03 Mbit/s

95th percentile per-packet one-way delay: 157.714 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 284.42 Mbit/s

95th percentile per-packet one-way delay: 127.677 ms

Loss rate: 1.31%

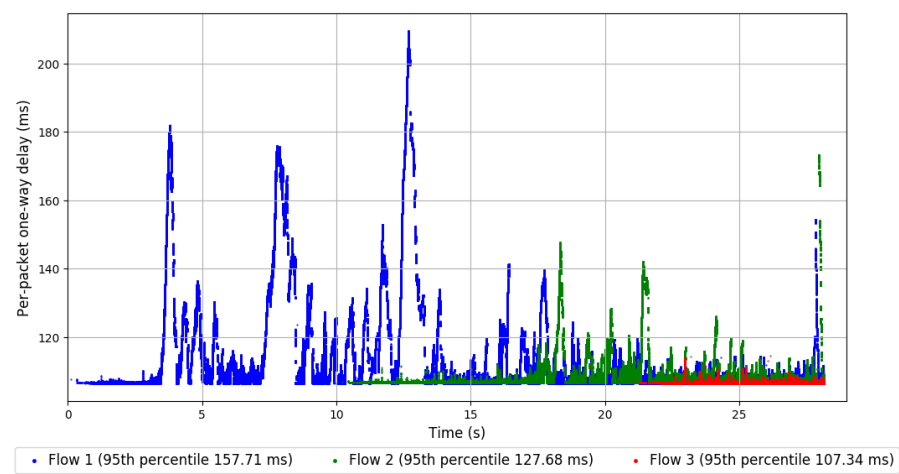
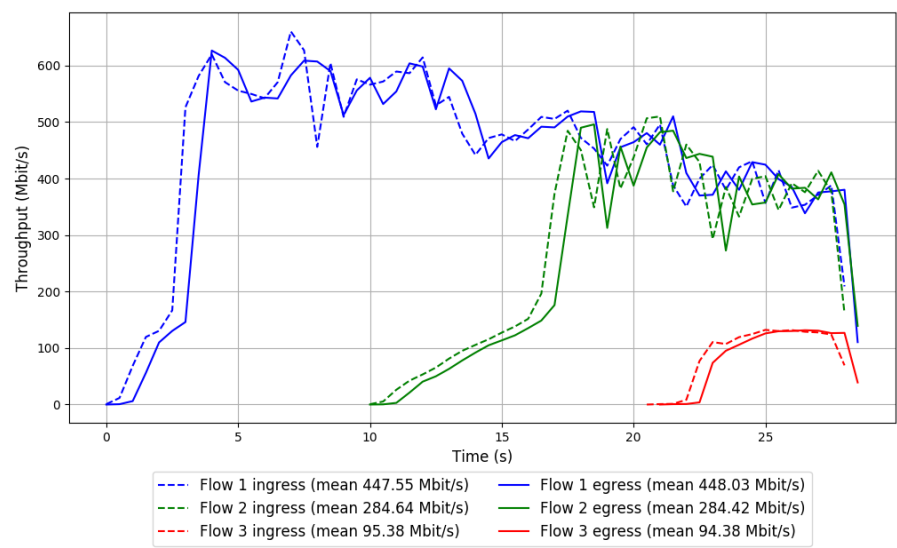
-- Flow 3:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 107.336 ms

Loss rate: 3.97%

Run 5: Report of Indigo-MusesD — Data Link

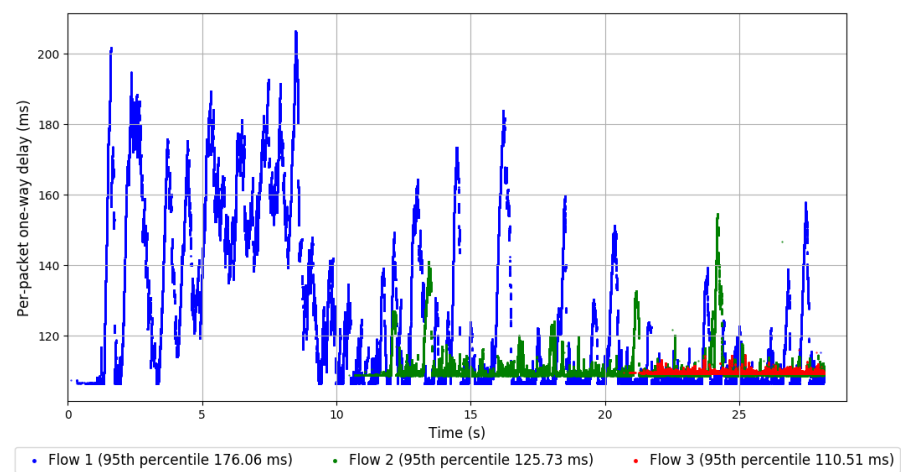
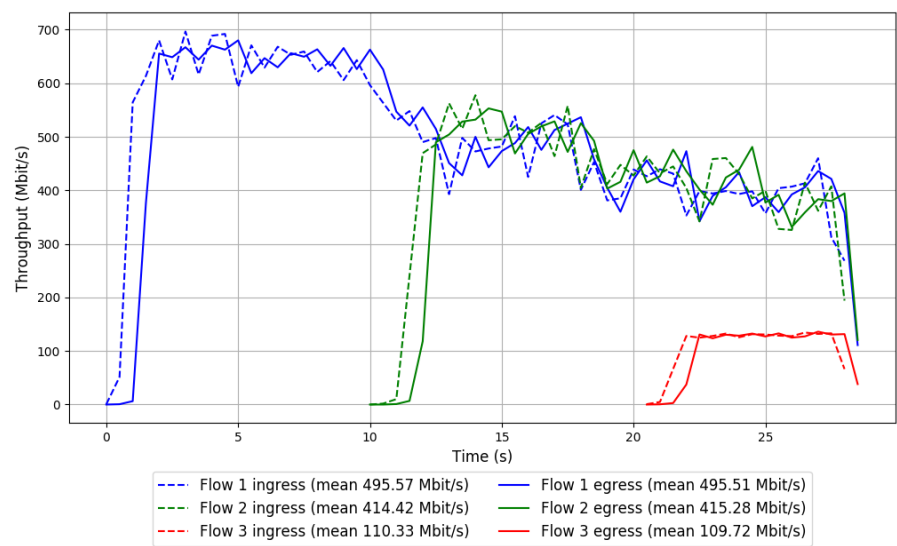


Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 03:54:45  
End at: 2019-11-24 03:55:15  
Local clock offset: -0.128 ms  
Remote clock offset: -0.104 ms

# Below is generated by plot.py at 2019-11-24 08:36:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 786.58 Mbit/s  
95th percentile per-packet one-way delay: 171.842 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 495.51 Mbit/s  
95th percentile per-packet one-way delay: 176.059 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 415.28 Mbit/s  
95th percentile per-packet one-way delay: 125.729 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 109.72 Mbit/s  
95th percentile per-packet one-way delay: 110.512 ms  
Loss rate: 3.53%

Run 1: Report of Indigo-MusesT — Data Link

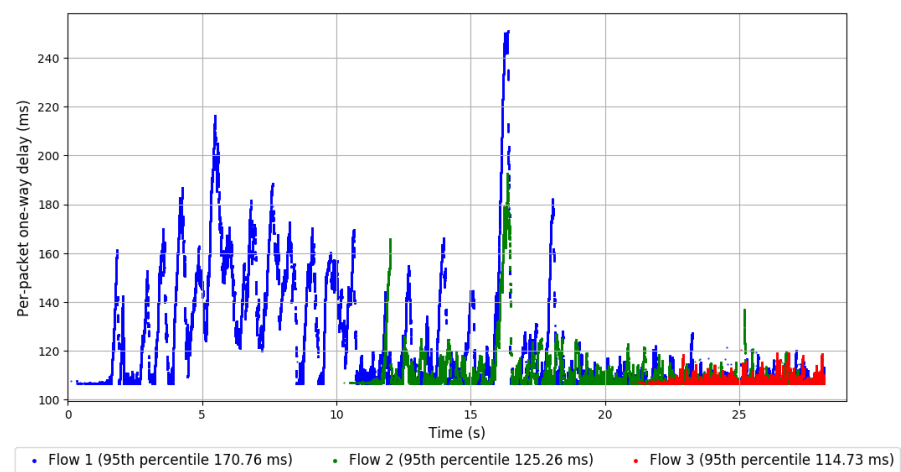
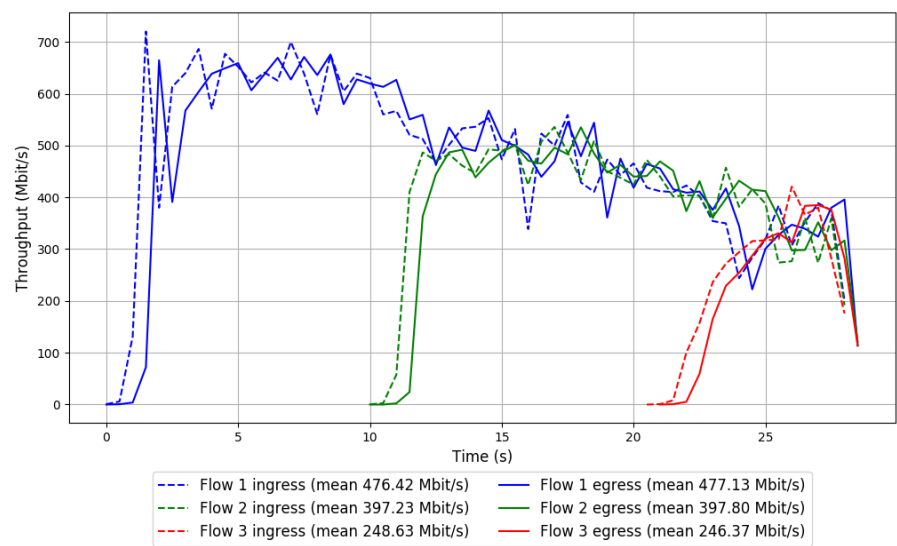


Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 04:37:14  
End at: 2019-11-24 04:37:44  
Local clock offset: -0.085 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 08:41:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 793.05 Mbit/s  
95th percentile per-packet one-way delay: 164.271 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 477.13 Mbit/s  
95th percentile per-packet one-way delay: 170.762 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 397.80 Mbit/s  
95th percentile per-packet one-way delay: 125.256 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 246.37 Mbit/s  
95th percentile per-packet one-way delay: 114.729 ms  
Loss rate: 3.82%

Run 2: Report of Indigo-MusesT — Data Link

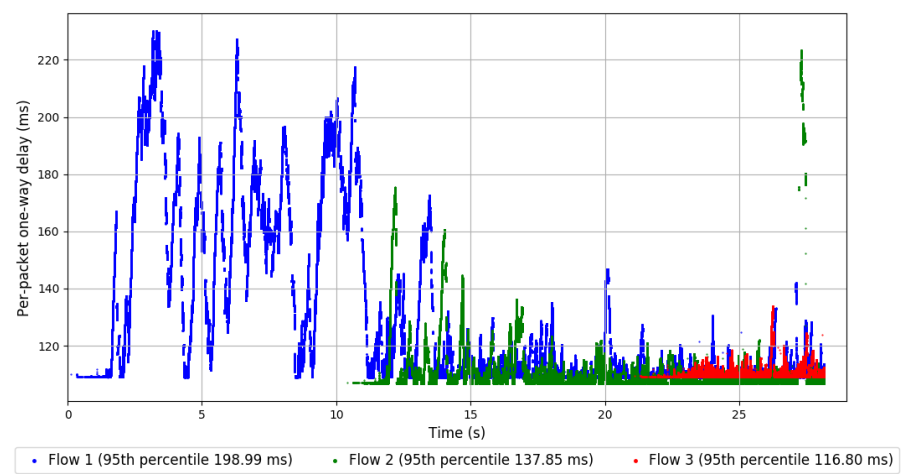
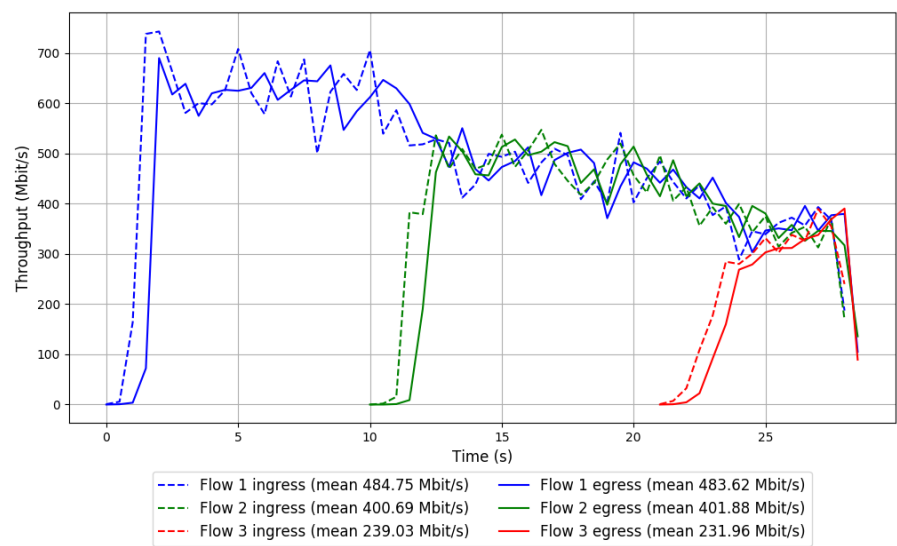


Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 05:19:53  
End at: 2019-11-24 05:20:23  
Local clock offset: -0.151 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-11-24 08:42:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 796.18 Mbit/s  
95th percentile per-packet one-way delay: 193.208 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 483.62 Mbit/s  
95th percentile per-packet one-way delay: 198.990 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 401.88 Mbit/s  
95th percentile per-packet one-way delay: 137.849 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 231.96 Mbit/s  
95th percentile per-packet one-way delay: 116.795 ms  
Loss rate: 5.91%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 06:01:50

End at: 2019-11-24 06:02:20

Local clock offset: -0.143 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-11-24 08:43:30

# Datalink statistics

-- Total of 3 flows:

Average throughput: 774.45 Mbit/s

95th percentile per-packet one-way delay: 167.457 ms

Loss rate: 1.05%

-- Flow 1:

Average throughput: 469.98 Mbit/s

95th percentile per-packet one-way delay: 174.883 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 387.93 Mbit/s

95th percentile per-packet one-way delay: 132.460 ms

Loss rate: 0.94%

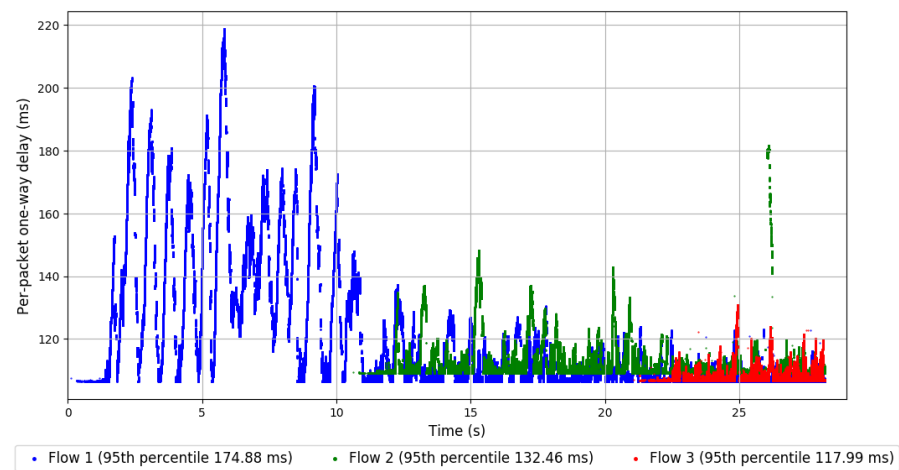
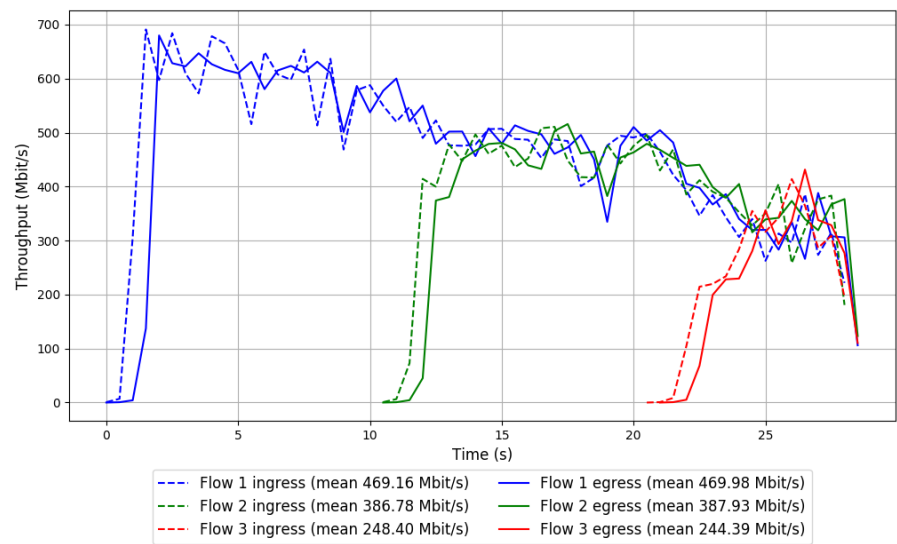
-- Flow 3:

Average throughput: 244.39 Mbit/s

95th percentile per-packet one-way delay: 117.994 ms

Loss rate: 4.55%

Run 4: Report of Indigo-MusesT — Data Link



Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 06:44:07

End at: 2019-11-24 06:44:37

Local clock offset: -0.16 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 08:44:38

# Datalink statistics

-- Total of 3 flows:

Average throughput: 778.98 Mbit/s

95th percentile per-packet one-way delay: 162.737 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 492.85 Mbit/s

95th percentile per-packet one-way delay: 167.392 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 408.95 Mbit/s

95th percentile per-packet one-way delay: 142.416 ms

Loss rate: 1.40%

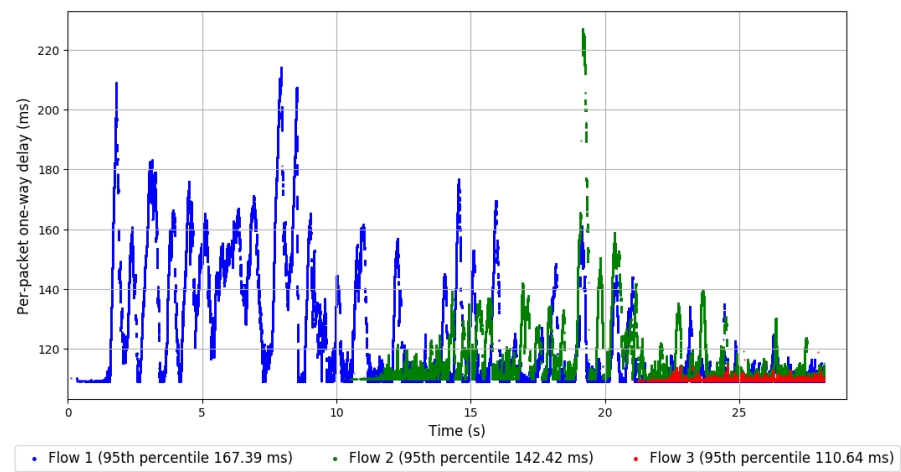
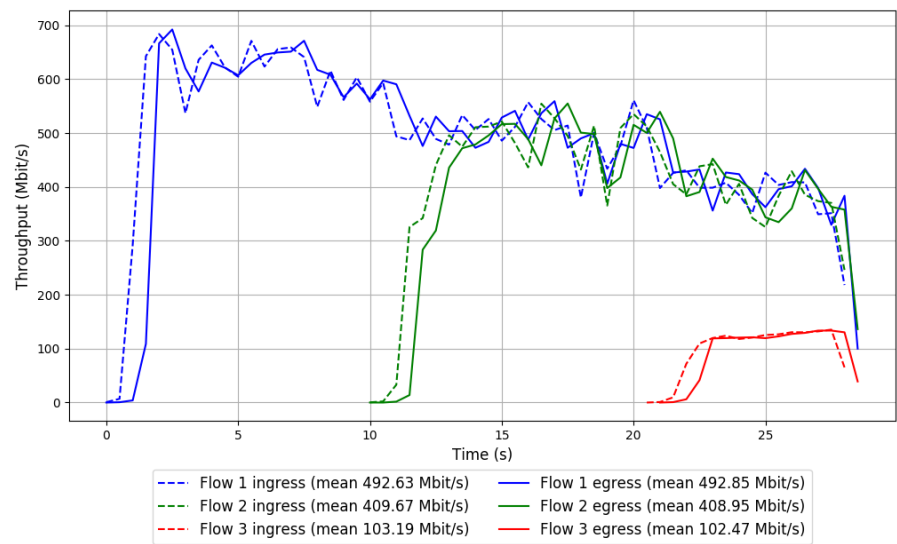
-- Flow 3:

Average throughput: 102.47 Mbit/s

95th percentile per-packet one-way delay: 110.640 ms

Loss rate: 3.66%

Run 5: Report of Indigo-MusesT — Data Link

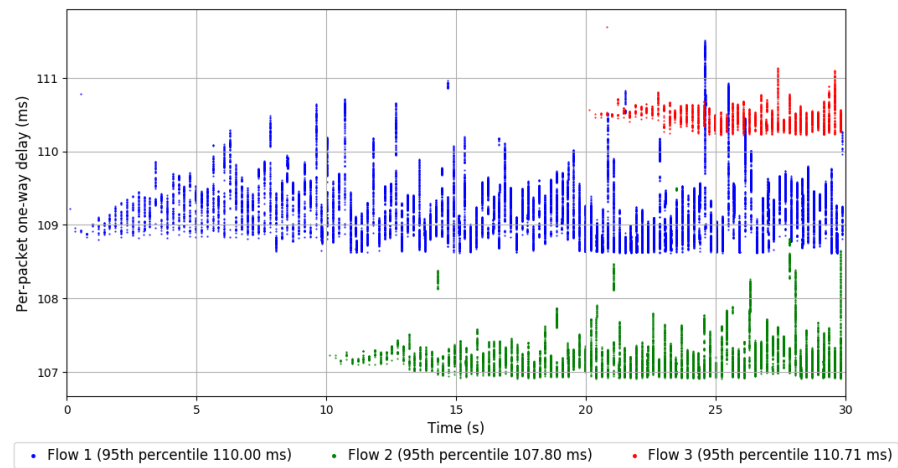
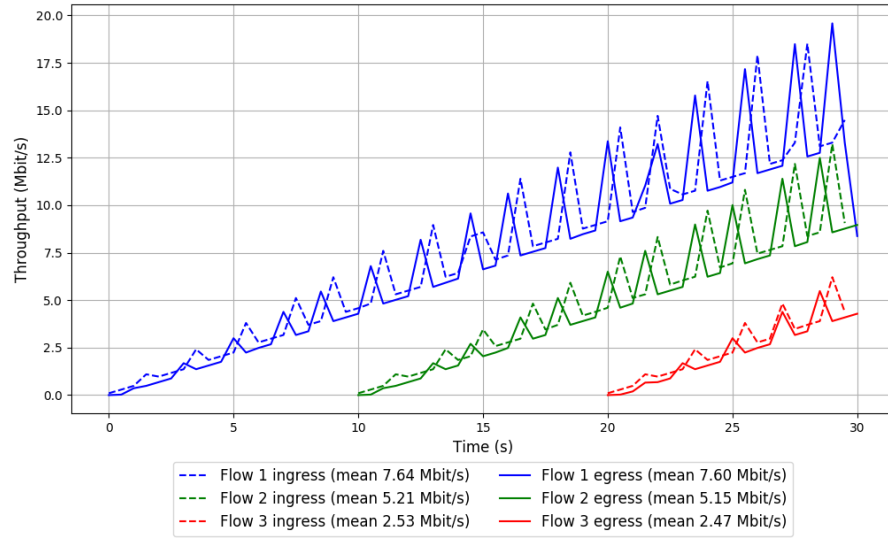


Run 1: Statistics of LEDBAT

Start at: 2019-11-24 03:44:41  
End at: 2019-11-24 03:45:11  
Local clock offset: -0.047 ms  
Remote clock offset: -0.456 ms

# Below is generated by plot.py at 2019-11-24 08:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.81 Mbit/s  
95th percentile per-packet one-way delay: 110.419 ms  
Loss rate: 1.80%  
-- Flow 1:  
Average throughput: 7.60 Mbit/s  
95th percentile per-packet one-way delay: 110.000 ms  
Loss rate: 1.33%  
-- Flow 2:  
Average throughput: 5.15 Mbit/s  
95th percentile per-packet one-way delay: 107.800 ms  
Loss rate: 2.20%  
-- Flow 3:  
Average throughput: 2.47 Mbit/s  
95th percentile per-packet one-way delay: 110.711 ms  
Loss rate: 4.43%

## Run 1: Report of LEDBAT — Data Link

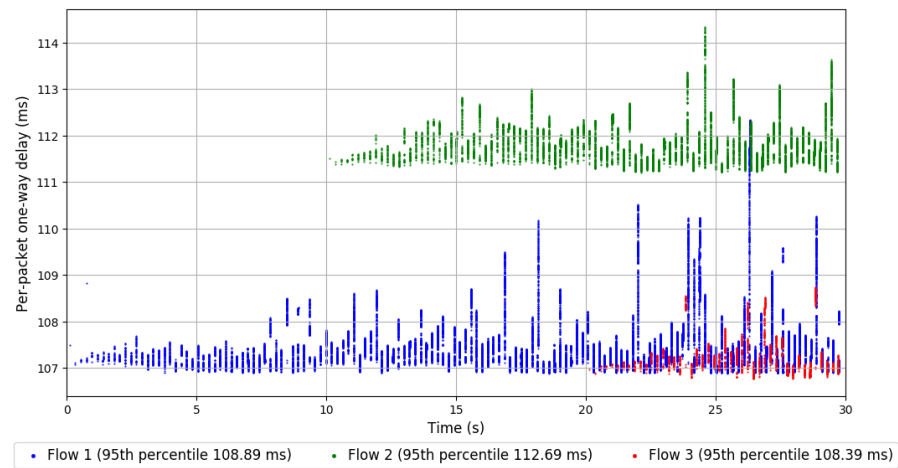
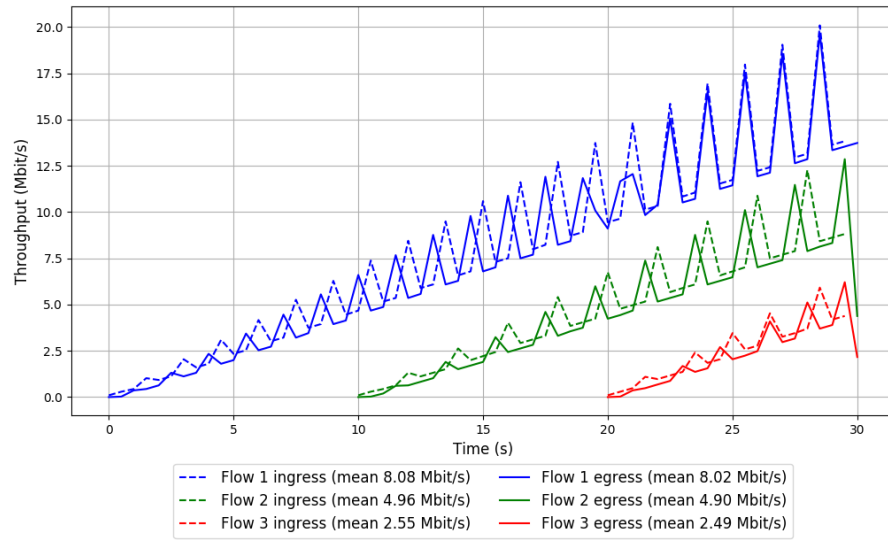


Run 2: Statistics of LEDBAT

Start at: 2019-11-24 04:27:14  
End at: 2019-11-24 04:27:44  
Local clock offset: -0.061 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 08:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.07 Mbit/s  
95th percentile per-packet one-way delay: 112.097 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 8.02 Mbit/s  
95th percentile per-packet one-way delay: 108.889 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 4.90 Mbit/s  
95th percentile per-packet one-way delay: 112.686 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 2.49 Mbit/s  
95th percentile per-packet one-way delay: 108.395 ms  
Loss rate: 4.43%

## Run 2: Report of LEDBAT — Data Link



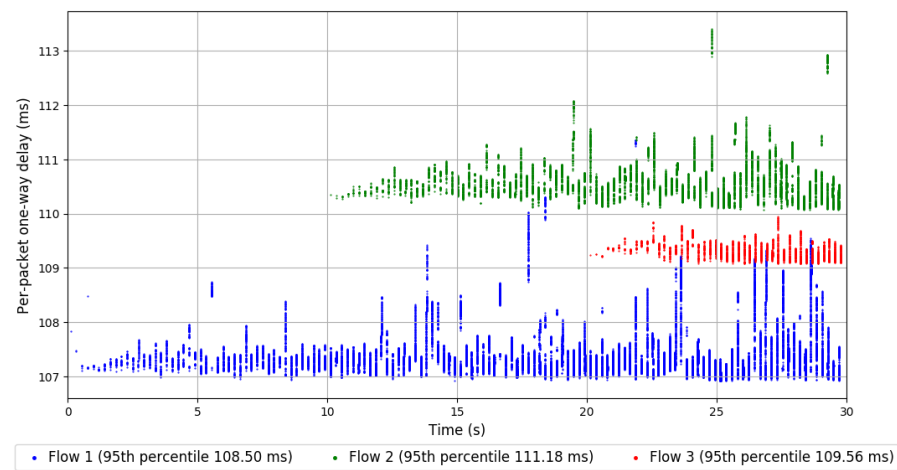
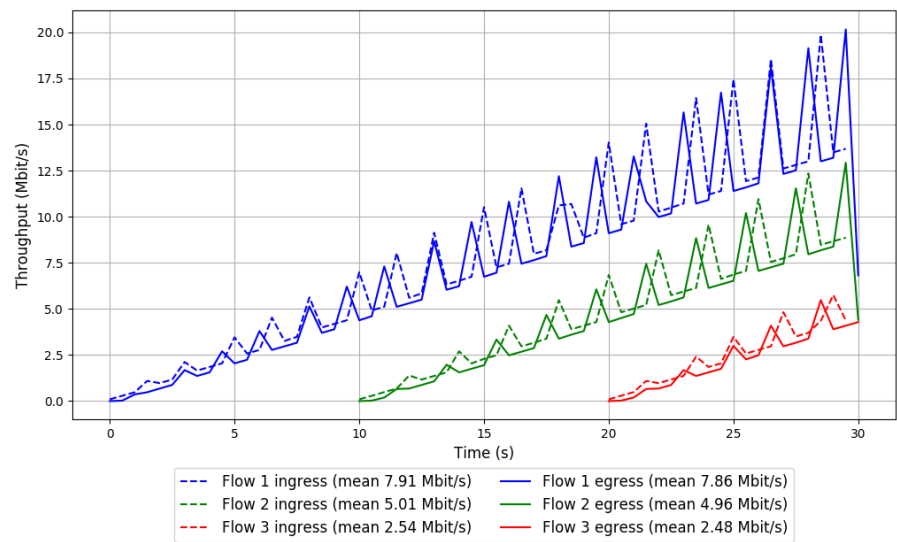


Run 3: Statistics of LEDBAT

Start at: 2019-11-24 05:09:57  
End at: 2019-11-24 05:10:27  
Local clock offset: -0.075 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-11-24 08:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.92 Mbit/s  
95th percentile per-packet one-way delay: 110.819 ms  
Loss rate: 1.88%  
-- Flow 1:  
Average throughput: 7.86 Mbit/s  
95th percentile per-packet one-way delay: 108.495 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 4.96 Mbit/s  
95th percentile per-packet one-way delay: 111.178 ms  
Loss rate: 2.24%  
-- Flow 3:  
Average throughput: 2.48 Mbit/s  
95th percentile per-packet one-way delay: 109.562 ms  
Loss rate: 4.42%

Run 3: Report of LEDBAT — Data Link

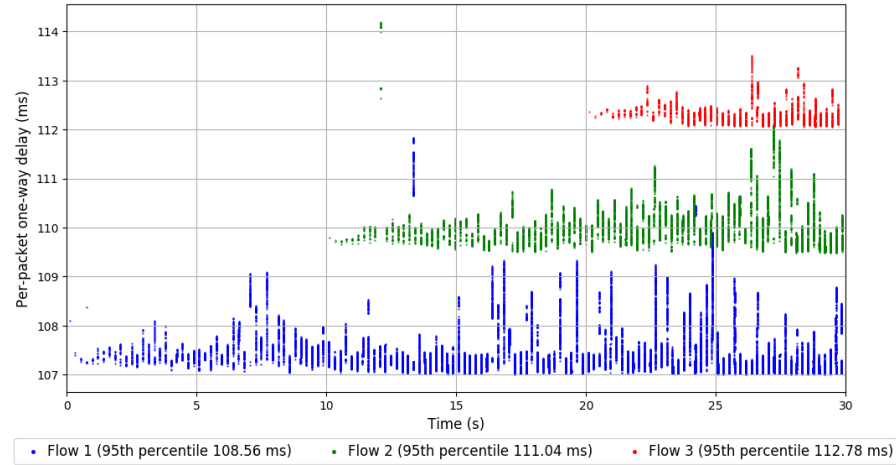
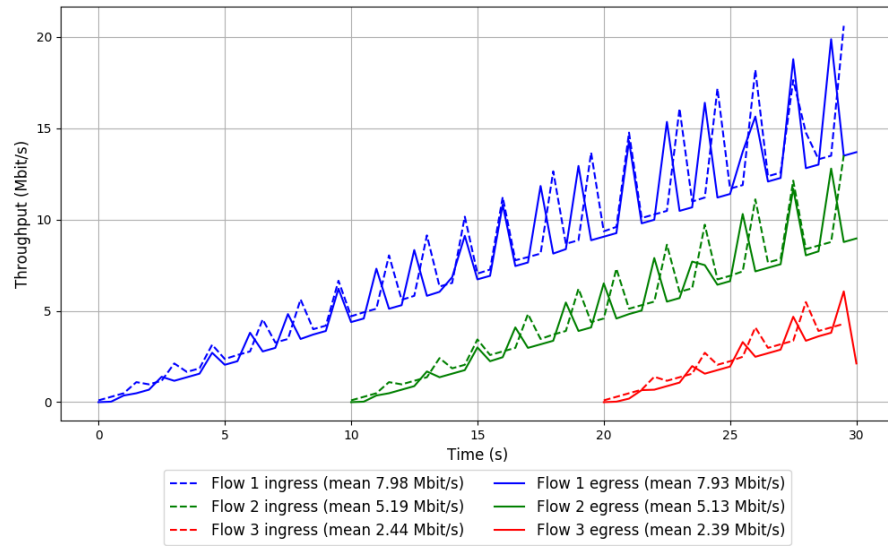


Run 4: Statistics of LEDBAT

Start at: 2019-11-24 05:51:53  
End at: 2019-11-24 05:52:23  
Local clock offset: -0.075 ms  
Remote clock offset: -0.153 ms

# Below is generated by plot.py at 2019-11-24 08:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.10 Mbit/s  
95th percentile per-packet one-way delay: 112.164 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 7.93 Mbit/s  
95th percentile per-packet one-way delay: 108.558 ms  
Loss rate: 1.45%  
-- Flow 2:  
Average throughput: 5.13 Mbit/s  
95th percentile per-packet one-way delay: 111.040 ms  
Loss rate: 2.20%  
-- Flow 3:  
Average throughput: 2.39 Mbit/s  
95th percentile per-packet one-way delay: 112.780 ms  
Loss rate: 4.53%

# Run 4: Report of LEDBAT — Data Link

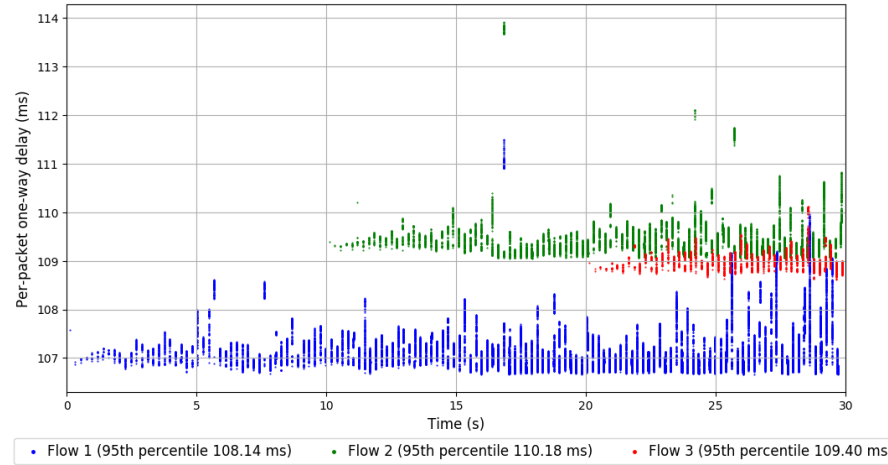
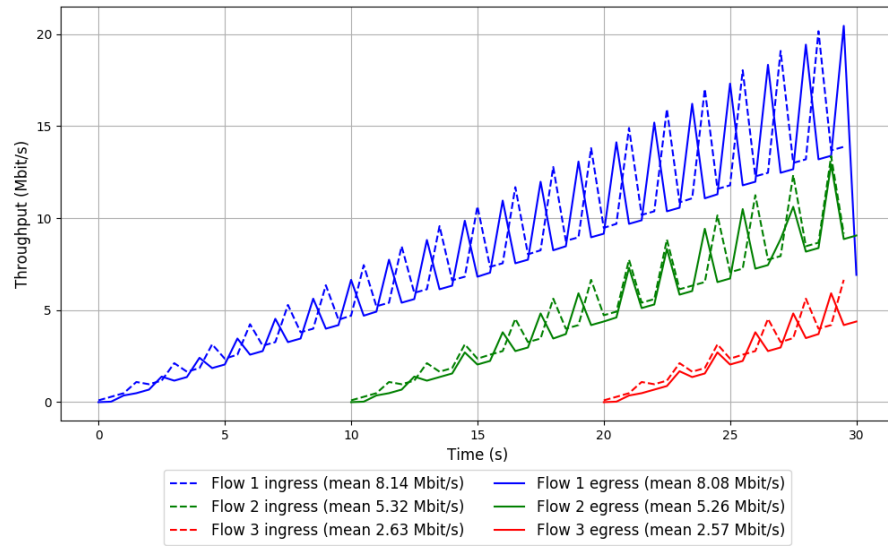


Run 5: Statistics of LEDBAT

Start at: 2019-11-24 06:34:08  
End at: 2019-11-24 06:34:38  
Local clock offset: -0.024 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-11-24 08:44:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.36 Mbit/s  
95th percentile per-packet one-way delay: 109.661 ms  
Loss rate: 1.85%  
-- Flow 1:  
Average throughput: 8.08 Mbit/s  
95th percentile per-packet one-way delay: 108.143 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 5.26 Mbit/s  
95th percentile per-packet one-way delay: 110.176 ms  
Loss rate: 2.17%  
-- Flow 3:  
Average throughput: 2.57 Mbit/s  
95th percentile per-packet one-way delay: 109.402 ms  
Loss rate: 4.33%

# Run 5: Report of LEDBAT — Data Link

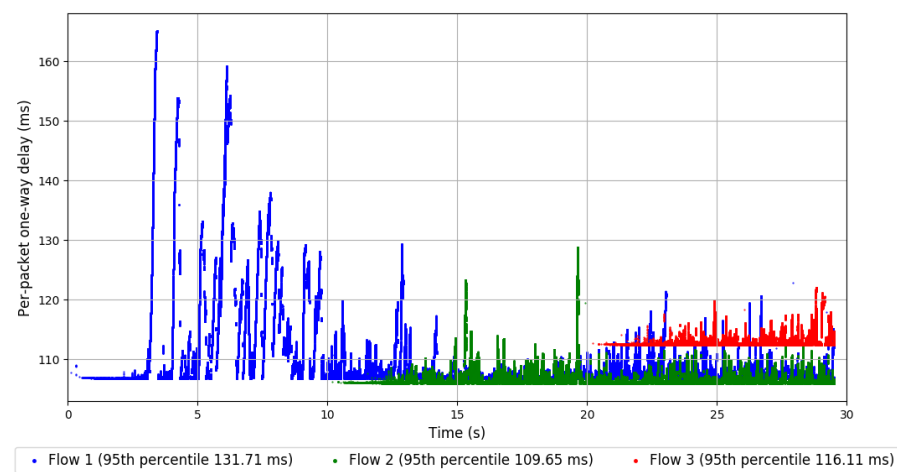
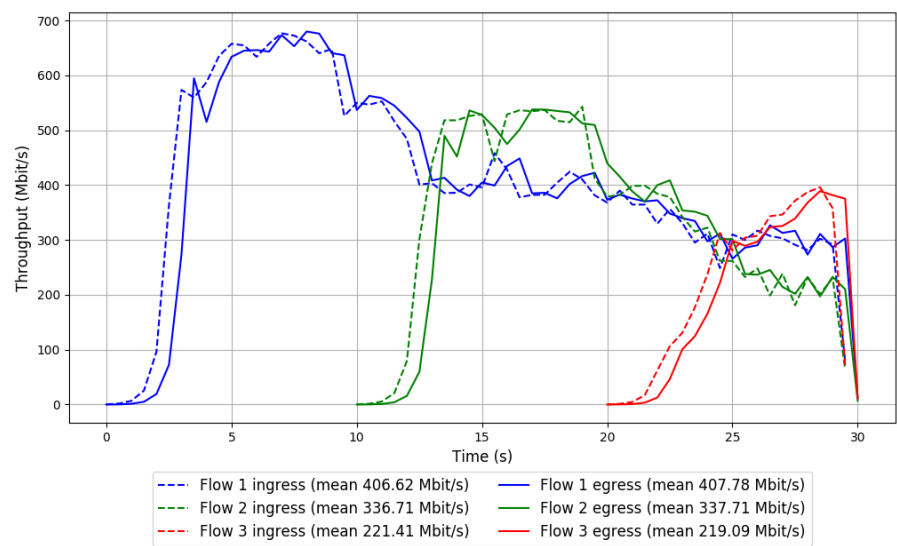


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 03:35:52  
End at: 2019-11-24 03:36:22  
Local clock offset: -0.105 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-11-24 08:47:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 698.93 Mbit/s  
95th percentile per-packet one-way delay: 126.992 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 407.78 Mbit/s  
95th percentile per-packet one-way delay: 131.711 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 337.71 Mbit/s  
95th percentile per-packet one-way delay: 109.648 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 219.09 Mbit/s  
95th percentile per-packet one-way delay: 116.108 ms  
Loss rate: 3.37%

Run 1: Report of Muses\_DecisionTree — Data Link



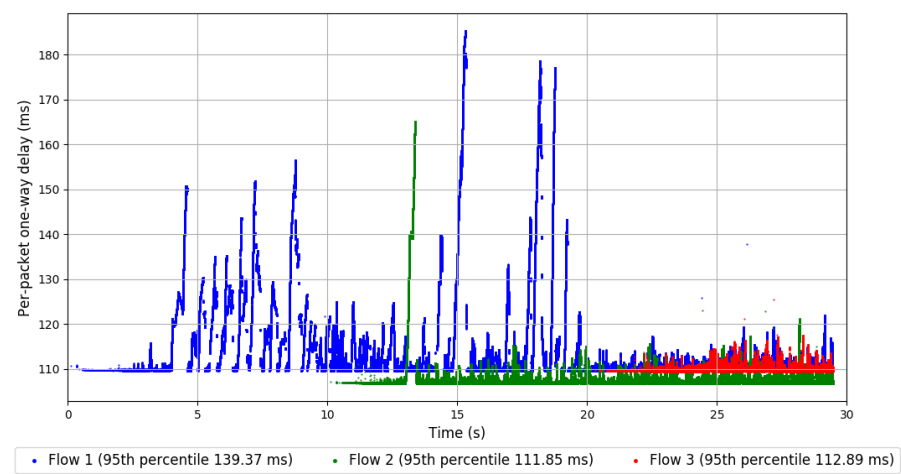
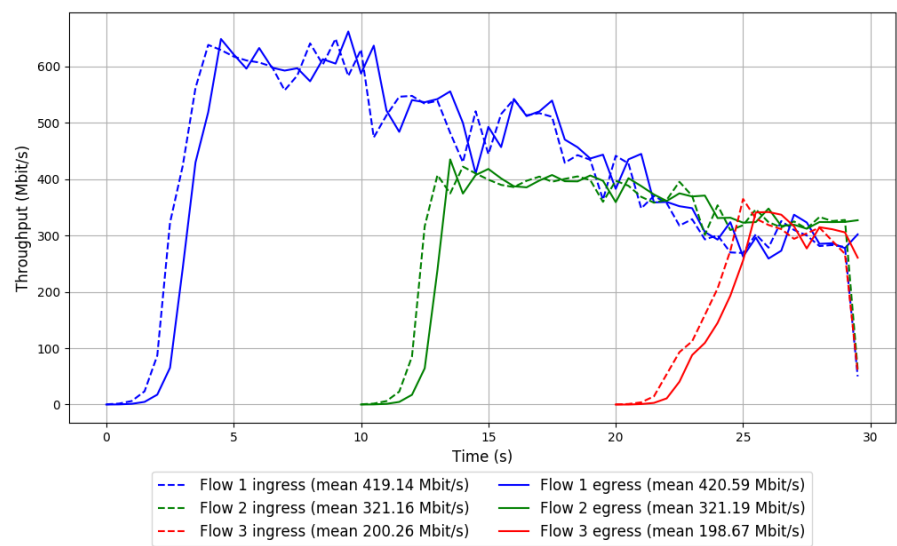


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 04:18:16  
End at: 2019-11-24 04:18:46  
Local clock offset: -0.135 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-11-24 08:47:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 694.42 Mbit/s  
95th percentile per-packet one-way delay: 133.299 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 420.59 Mbit/s  
95th percentile per-packet one-way delay: 139.374 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 321.19 Mbit/s  
95th percentile per-packet one-way delay: 111.852 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 198.67 Mbit/s  
95th percentile per-packet one-way delay: 112.895 ms  
Loss rate: 3.12%

Run 2: Report of Muses\_DecisionTree — Data Link

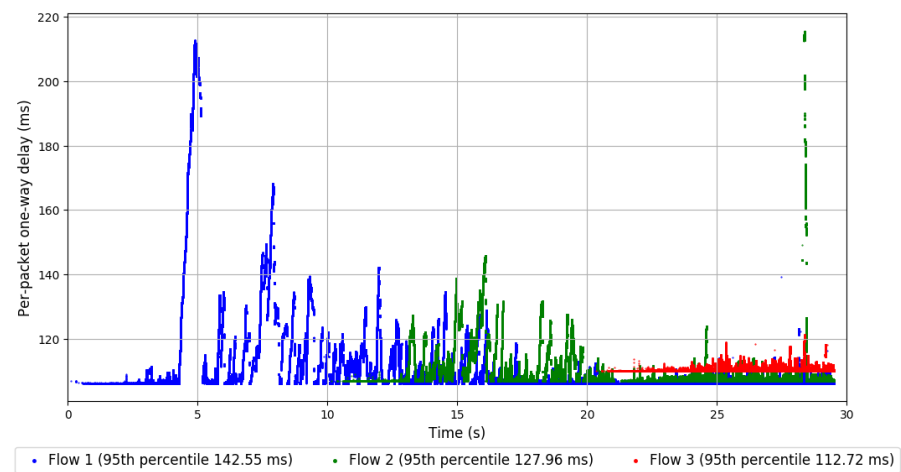
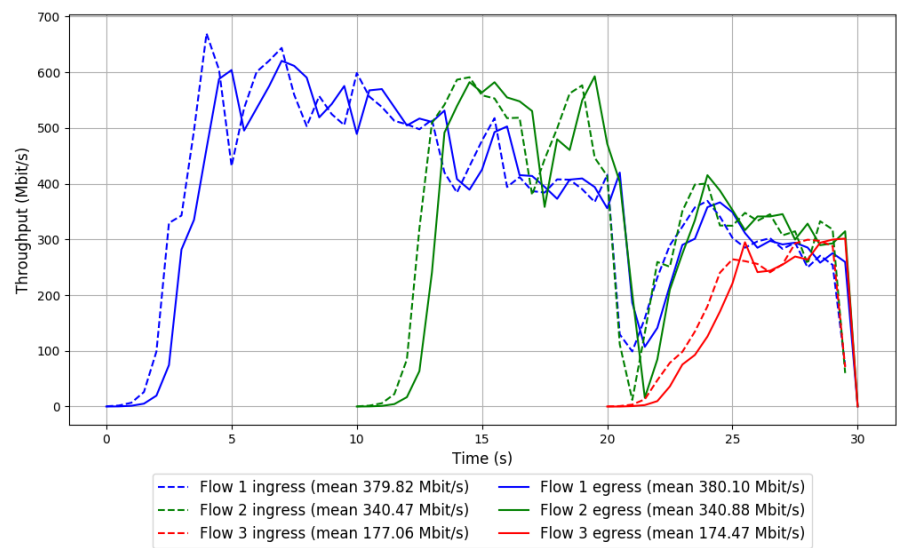


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 05:01:19  
End at: 2019-11-24 05:01:49  
Local clock offset: -0.004 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-11-24 08:47:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 658.76 Mbit/s  
95th percentile per-packet one-way delay: 133.172 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 380.10 Mbit/s  
95th percentile per-packet one-way delay: 142.554 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 340.88 Mbit/s  
95th percentile per-packet one-way delay: 127.960 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 174.47 Mbit/s  
95th percentile per-packet one-way delay: 112.719 ms  
Loss rate: 3.75%

Run 3: Report of Muses\_DecisionTree — Data Link

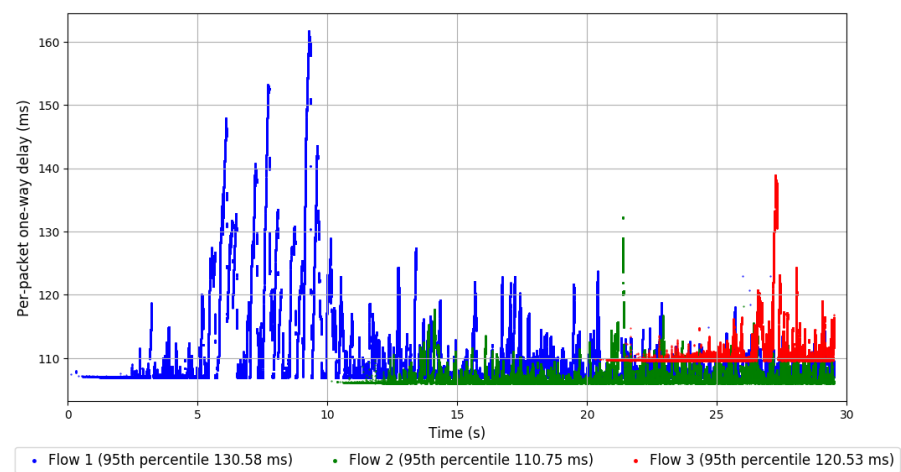
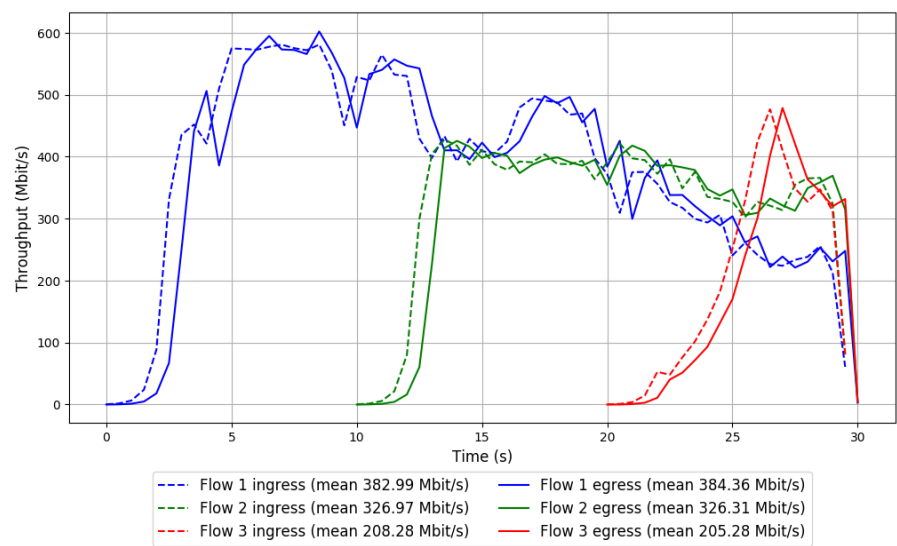


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 05:43:40  
End at: 2019-11-24 05:44:10  
Local clock offset: -0.043 ms  
Remote clock offset: -0.096 ms

# Below is generated by plot.py at 2019-11-24 08:50:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 663.35 Mbit/s  
95th percentile per-packet one-way delay: 126.873 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 384.36 Mbit/s  
95th percentile per-packet one-way delay: 130.580 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 326.31 Mbit/s  
95th percentile per-packet one-way delay: 110.749 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 205.28 Mbit/s  
95th percentile per-packet one-way delay: 120.534 ms  
Loss rate: 3.74%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 06:25:21

End at: 2019-11-24 06:25:51

Local clock offset: -0.281 ms

Remote clock offset: 0.031 ms

# Below is generated by plot.py at 2019-11-24 08:55:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 689.72 Mbit/s

95th percentile per-packet one-way delay: 132.587 ms

Loss rate: 0.99%

-- Flow 1:

Average throughput: 425.29 Mbit/s

95th percentile per-packet one-way delay: 135.584 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 323.17 Mbit/s

95th percentile per-packet one-way delay: 122.835 ms

Loss rate: 1.18%

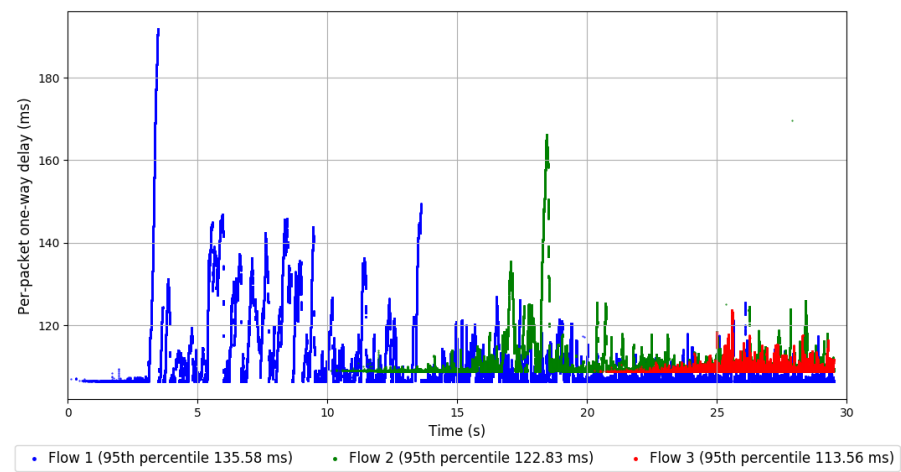
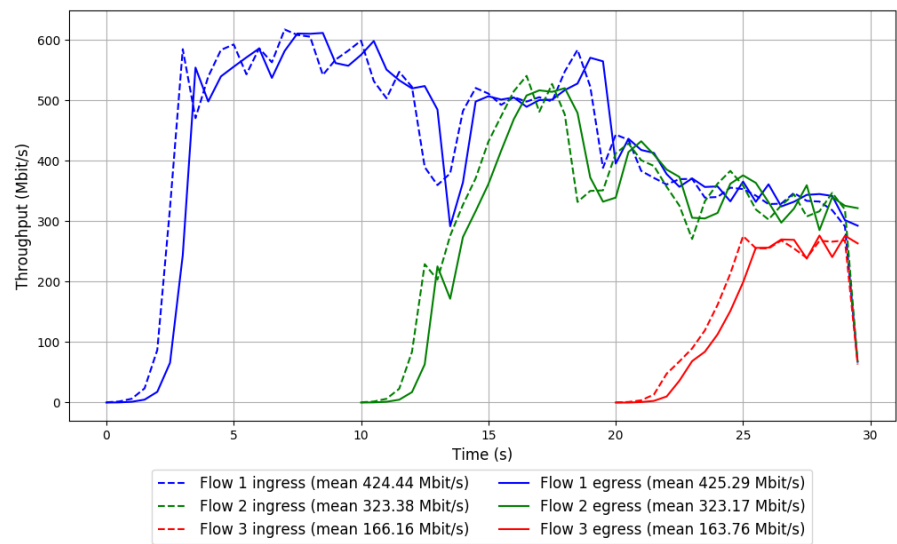
-- Flow 3:

Average throughput: 163.76 Mbit/s

95th percentile per-packet one-way delay: 113.561 ms

Loss rate: 3.83%

Run 5: Report of Muses\_DecisionTree — Data Link



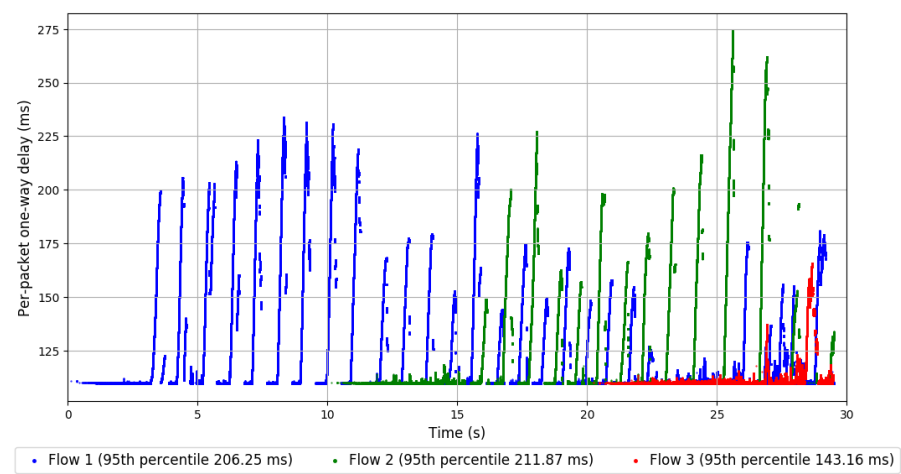
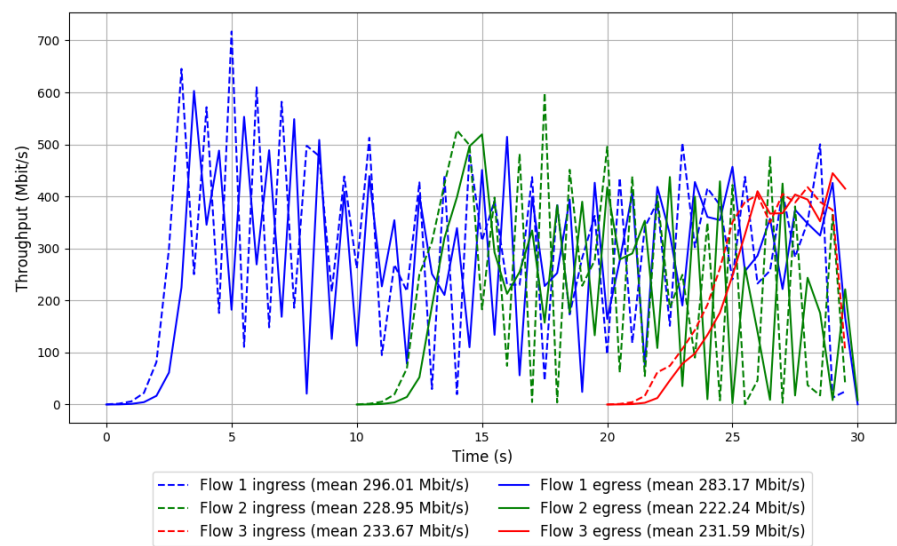


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 03:39:05
End at: 2019-11-24 03:39:35
Local clock offset: -0.066 ms
Remote clock offset: -0.073 ms

# Below is generated by plot.py at 2019-11-24 08:55:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 502.33 Mbit/s
95th percentile per-packet one-way delay: 204.291 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 283.17 Mbit/s
95th percentile per-packet one-way delay: 206.250 ms
Loss rate: 5.06%
-- Flow 2:
Average throughput: 222.24 Mbit/s
95th percentile per-packet one-way delay: 211.870 ms
Loss rate: 3.64%
-- Flow 3:
Average throughput: 231.59 Mbit/s
95th percentile per-packet one-way delay: 143.156 ms
Loss rate: 3.47%
```

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

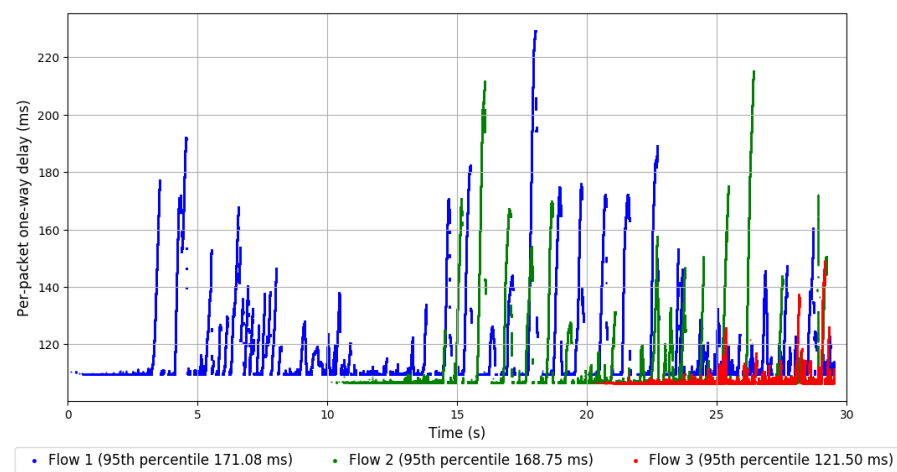
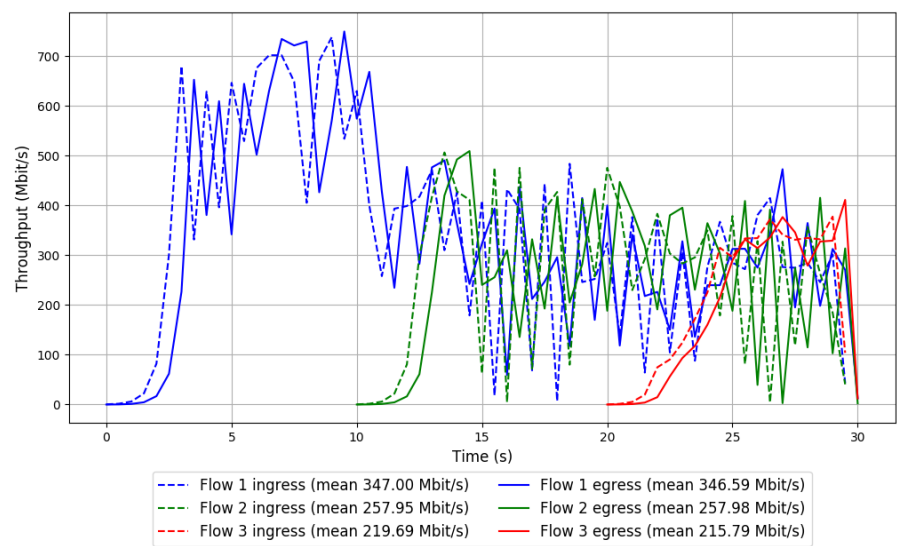


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 04:21:28  
End at: 2019-11-24 04:21:58  
Local clock offset: -0.226 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-11-24 08:55:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 584.88 Mbit/s  
95th percentile per-packet one-way delay: 169.535 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 346.59 Mbit/s  
95th percentile per-packet one-way delay: 171.077 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 257.98 Mbit/s  
95th percentile per-packet one-way delay: 168.753 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 215.79 Mbit/s  
95th percentile per-packet one-way delay: 121.500 ms  
Loss rate: 4.02%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

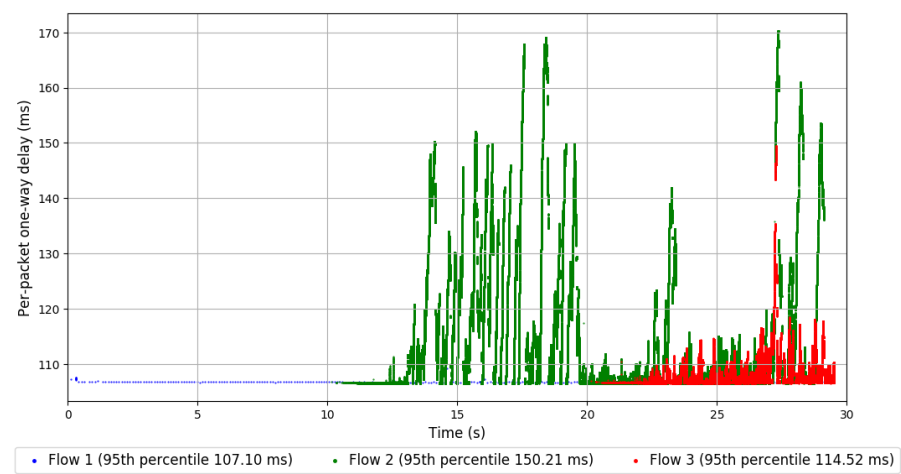
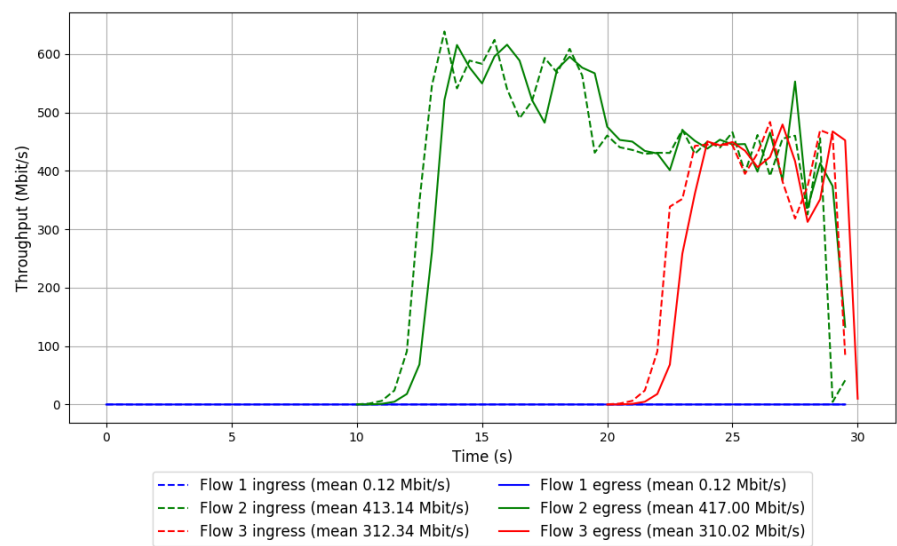


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 05:04:30  
End at: 2019-11-24 05:05:00  
Local clock offset: -0.199 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-11-24 08:55:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 373.49 Mbit/s  
95th percentile per-packet one-way delay: 147.430 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 107.099 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 417.00 Mbit/s  
95th percentile per-packet one-way delay: 150.207 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 310.02 Mbit/s  
95th percentile per-packet one-way delay: 114.522 ms  
Loss rate: 3.00%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

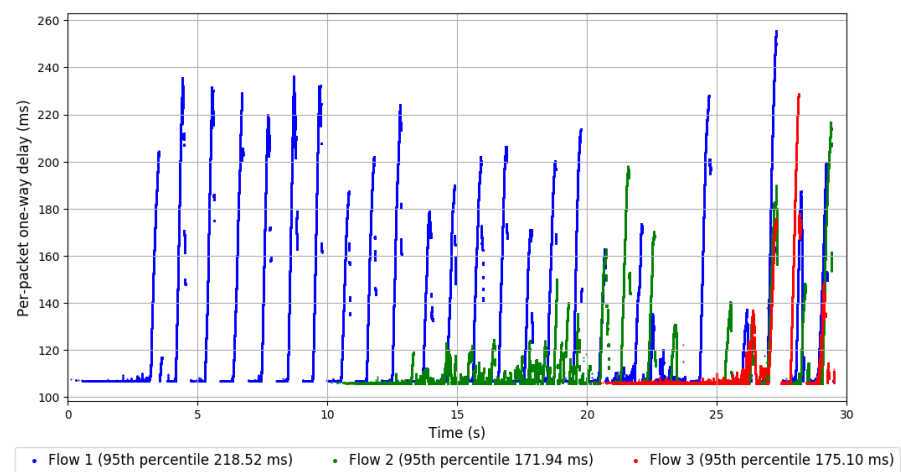
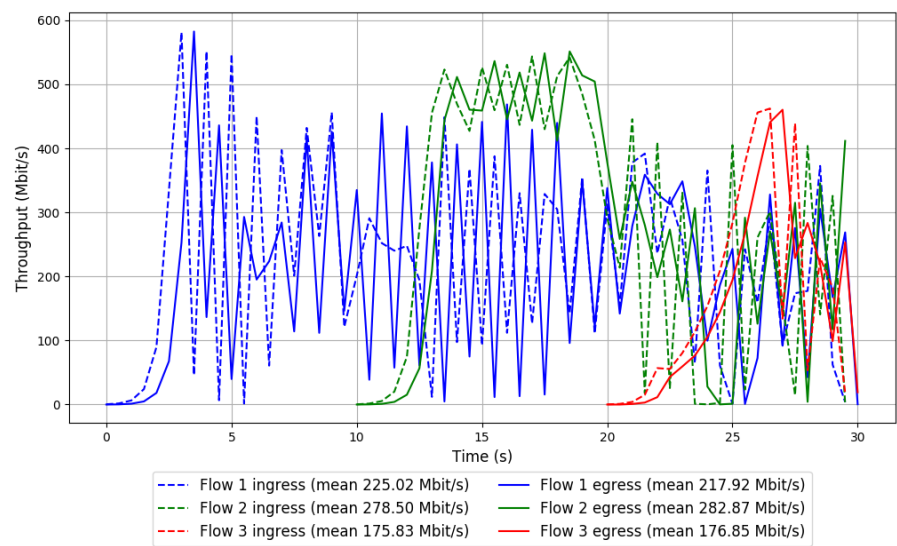


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 05:46:51  
End at: 2019-11-24 05:47:21  
Local clock offset: -0.028 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-11-24 08:56:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 458.62 Mbit/s  
95th percentile per-packet one-way delay: 207.602 ms  
Loss rate: 2.12%  
-- Flow 1:  
Average throughput: 217.92 Mbit/s  
95th percentile per-packet one-way delay: 218.521 ms  
Loss rate: 3.87%  
-- Flow 2:  
Average throughput: 282.87 Mbit/s  
95th percentile per-packet one-way delay: 171.939 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 176.85 Mbit/s  
95th percentile per-packet one-way delay: 175.104 ms  
Loss rate: 1.76%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



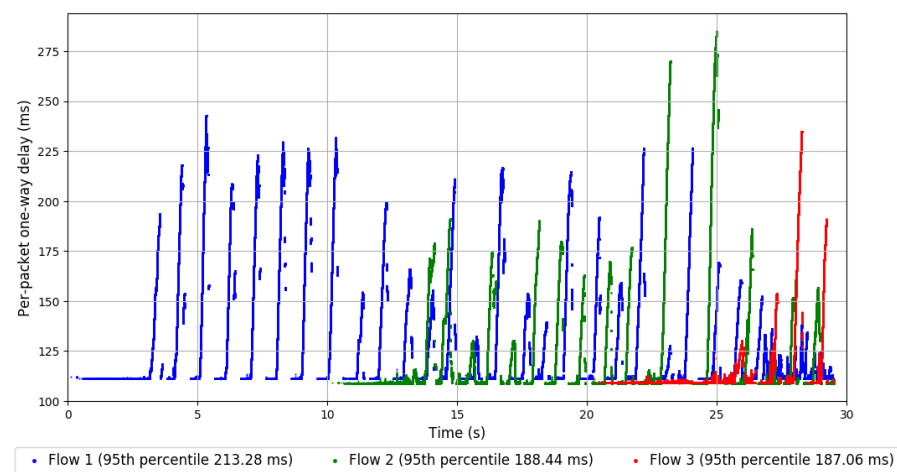
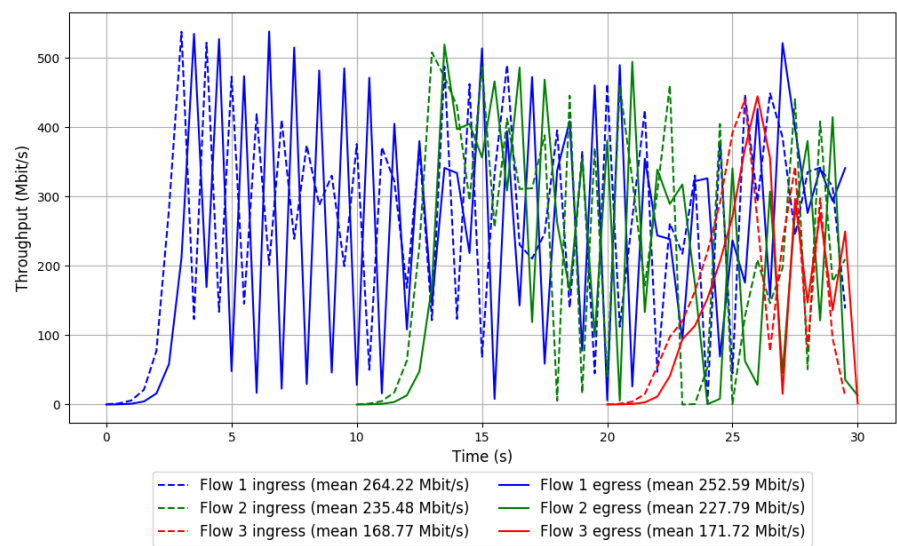


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 06:28:34  
End at: 2019-11-24 06:29:04  
Local clock offset: -0.081 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-11-24 08:56:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 456.22 Mbit/s  
95th percentile per-packet one-way delay: 210.779 ms  
Loss rate: 4.42%  
-- Flow 1:  
Average throughput: 252.59 Mbit/s  
95th percentile per-packet one-way delay: 213.282 ms  
Loss rate: 5.25%  
-- Flow 2:  
Average throughput: 227.79 Mbit/s  
95th percentile per-packet one-way delay: 188.441 ms  
Loss rate: 4.35%  
-- Flow 3:  
Average throughput: 171.72 Mbit/s  
95th percentile per-packet one-way delay: 187.063 ms  
Loss rate: 0.60%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

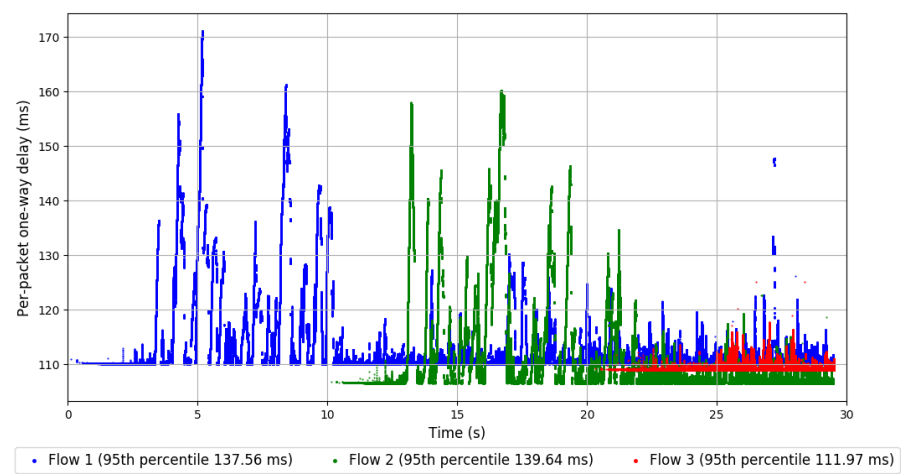
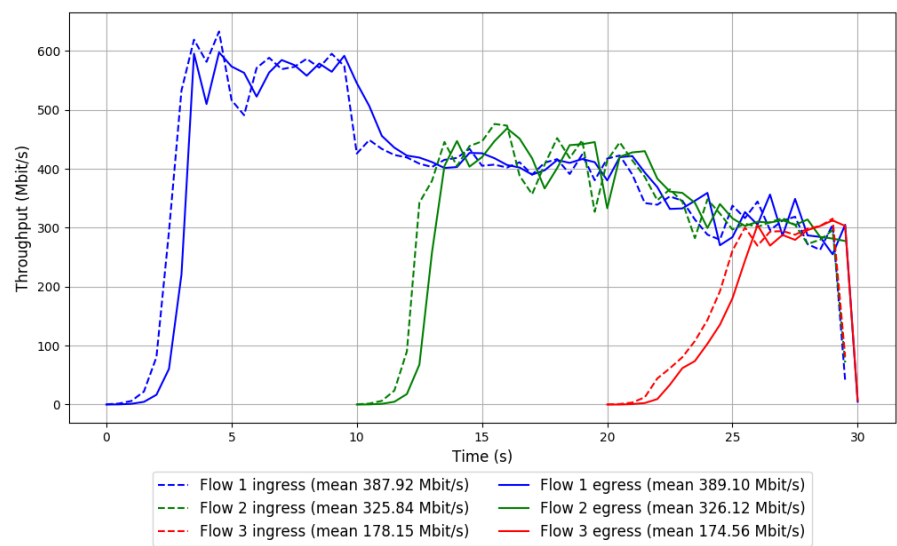


```
Run 1: Statistics of Muses\_DecisionTreeR0

Start at: 2019-11-24 03:42:47
End at: 2019-11-24 03:43:17
Local clock offset: -0.036 ms
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-11-24 09:01:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 658.22 Mbit/s
95th percentile per-packet one-way delay: 137.387 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 389.10 Mbit/s
95th percentile per-packet one-way delay: 137.555 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 326.12 Mbit/s
95th percentile per-packet one-way delay: 139.636 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 174.56 Mbit/s
95th percentile per-packet one-way delay: 111.972 ms
Loss rate: 4.28%
```

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

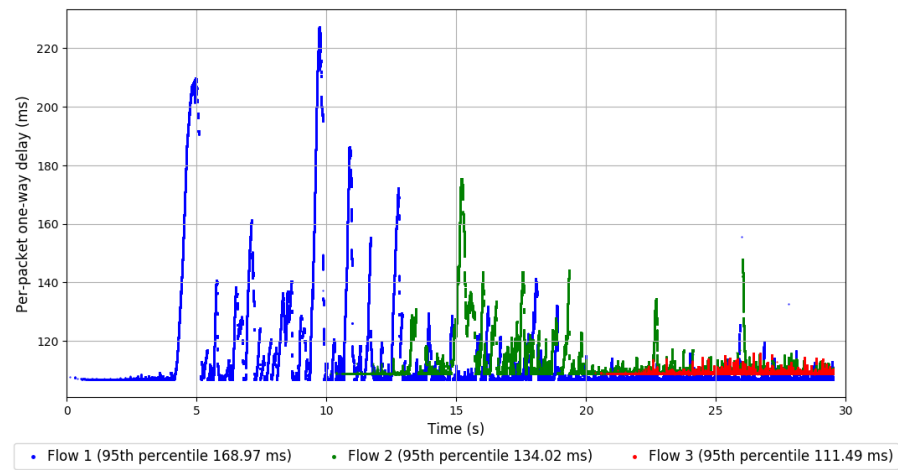
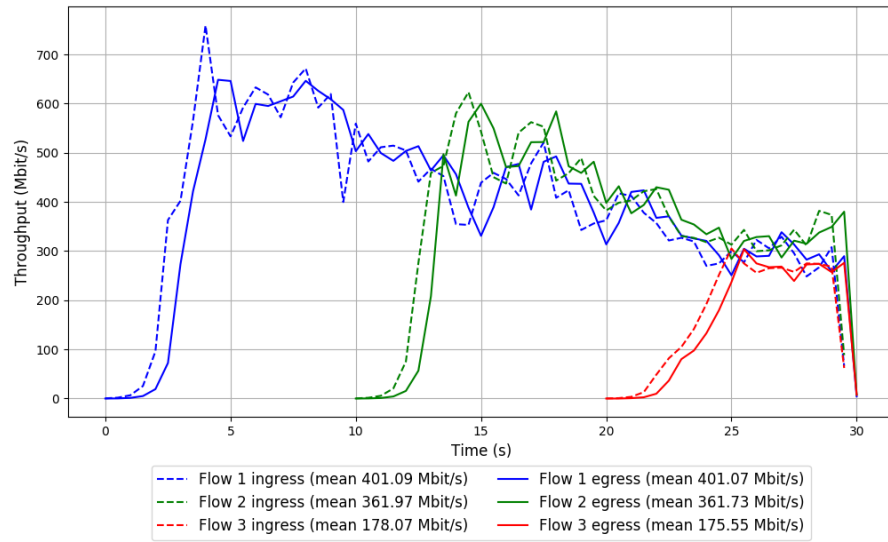


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 04:25:18  
End at: 2019-11-24 04:25:48  
Local clock offset: -0.094 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-11-24 09:05:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 694.03 Mbit/s  
95th percentile per-packet one-way delay: 145.618 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 401.07 Mbit/s  
95th percentile per-packet one-way delay: 168.968 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 361.73 Mbit/s  
95th percentile per-packet one-way delay: 134.019 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 175.55 Mbit/s  
95th percentile per-packet one-way delay: 111.494 ms  
Loss rate: 3.72%

## Run 2: Report of Muses\_DecisionTreeR0 — Data Link



Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 05:08:00

End at: 2019-11-24 05:08:30

Local clock offset: -0.19 ms

Remote clock offset: 0.353 ms

# Below is generated by plot.py at 2019-11-24 09:06:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 689.73 Mbit/s

95th percentile per-packet one-way delay: 129.219 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 396.60 Mbit/s

95th percentile per-packet one-way delay: 136.931 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 352.76 Mbit/s

95th percentile per-packet one-way delay: 123.420 ms

Loss rate: 1.03%

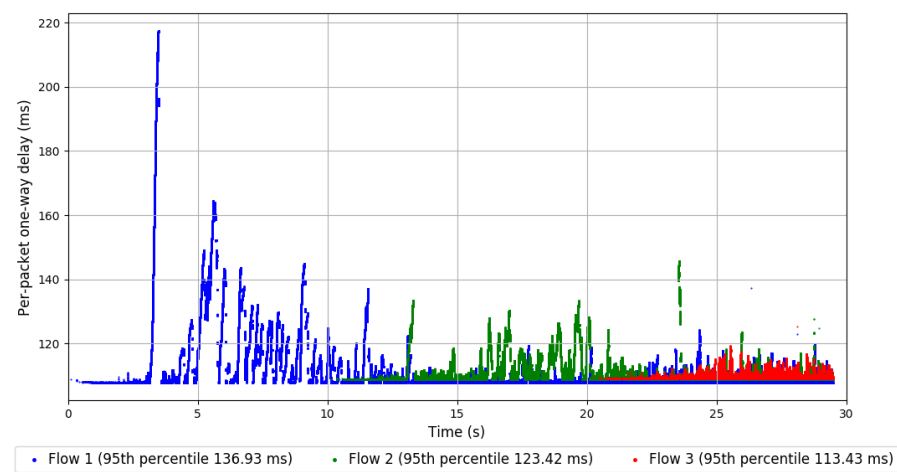
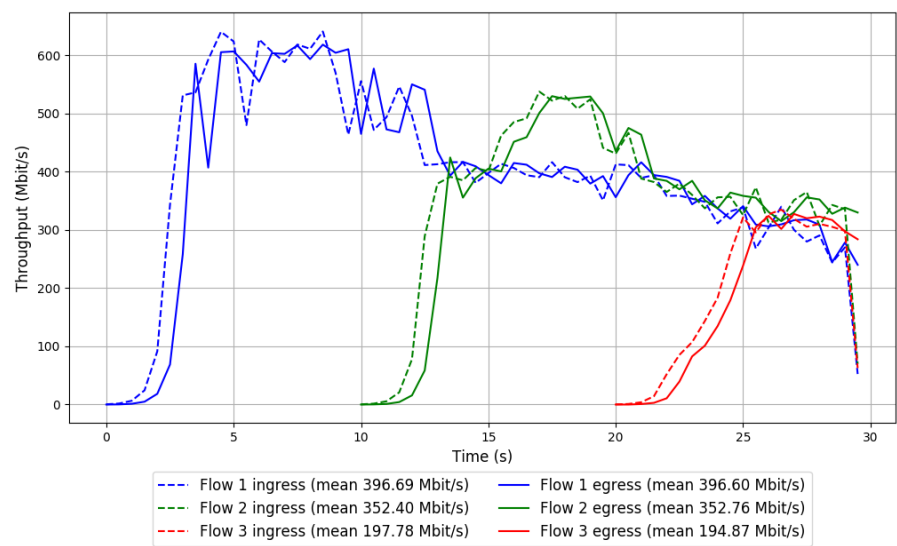
-- Flow 3:

Average throughput: 194.87 Mbit/s

95th percentile per-packet one-way delay: 113.428 ms

Loss rate: 3.77%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



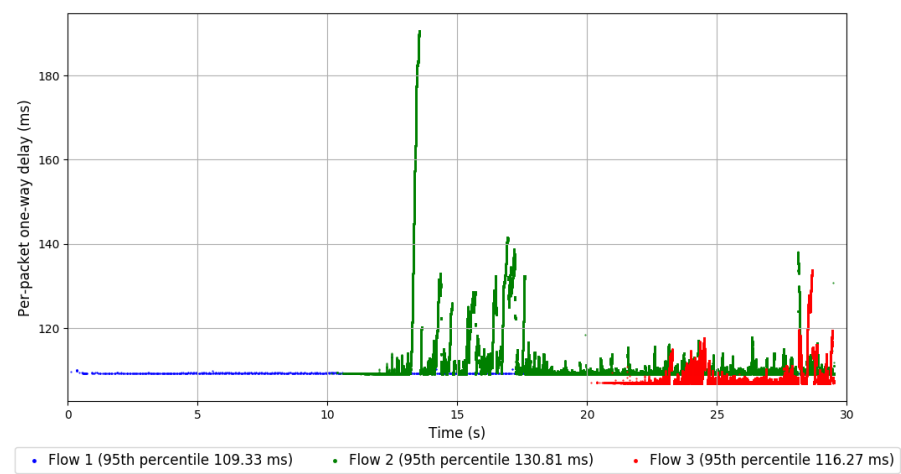
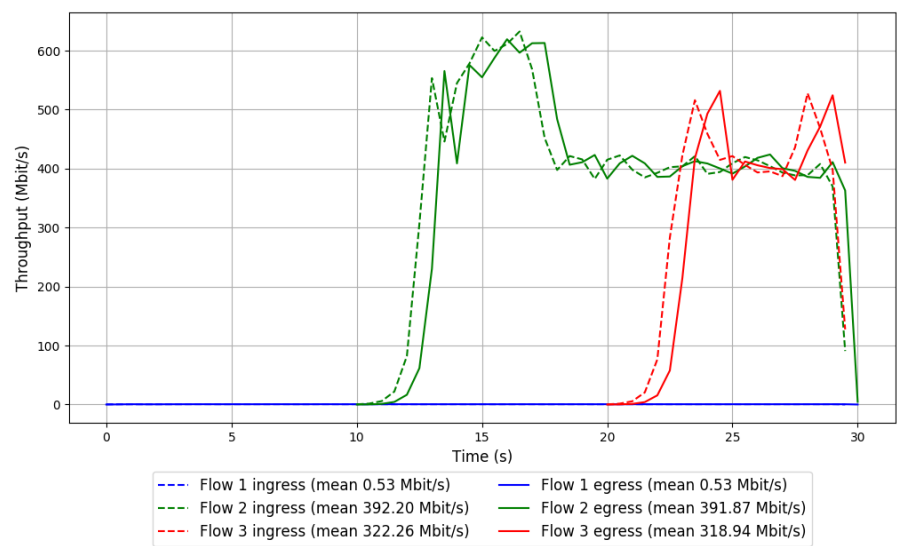


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 05:50:14  
End at: 2019-11-24 05:50:44  
Local clock offset: 0.02 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-11-24 09:06:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 359.90 Mbit/s  
95th percentile per-packet one-way delay: 128.235 ms  
Loss rate: 1.81%  
-- Flow 1:  
Average throughput: 0.53 Mbit/s  
95th percentile per-packet one-way delay: 109.329 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 391.87 Mbit/s  
95th percentile per-packet one-way delay: 130.810 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 318.94 Mbit/s  
95th percentile per-packet one-way delay: 116.266 ms  
Loss rate: 3.39%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 06:32:11

End at: 2019-11-24 06:32:41

Local clock offset: -0.213 ms

Remote clock offset: -0.06 ms

# Below is generated by plot.py at 2019-11-24 09:09:33

# Datalink statistics

-- Total of 3 flows:

Average throughput: 703.98 Mbit/s

95th percentile per-packet one-way delay: 135.787 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 411.13 Mbit/s

95th percentile per-packet one-way delay: 141.485 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 341.48 Mbit/s

95th percentile per-packet one-way delay: 131.189 ms

Loss rate: 0.96%

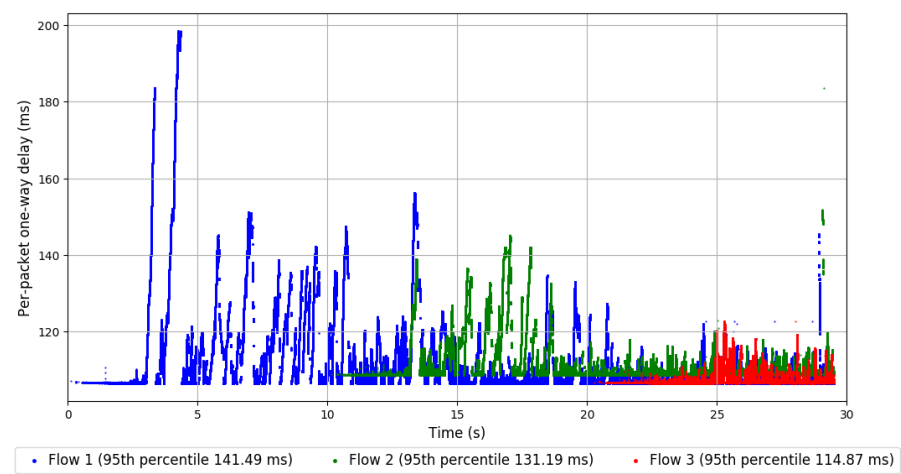
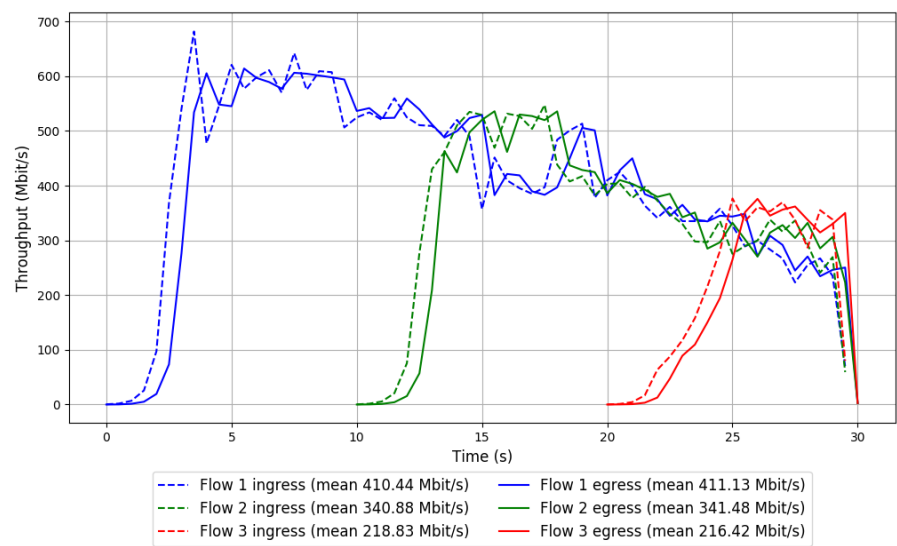
-- Flow 3:

Average throughput: 216.42 Mbit/s

95th percentile per-packet one-way delay: 114.867 ms

Loss rate: 3.38%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 03:30:12

End at: 2019-11-24 03:30:42

Local clock offset: -0.121 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-11-24 09:21:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 620.84 Mbit/s

95th percentile per-packet one-way delay: 228.724 ms

Loss rate: 2.53%

-- Flow 1:

Average throughput: 372.33 Mbit/s

95th percentile per-packet one-way delay: 232.425 ms

Loss rate: 2.41%

-- Flow 2:

Average throughput: 262.14 Mbit/s

95th percentile per-packet one-way delay: 198.455 ms

Loss rate: 2.71%

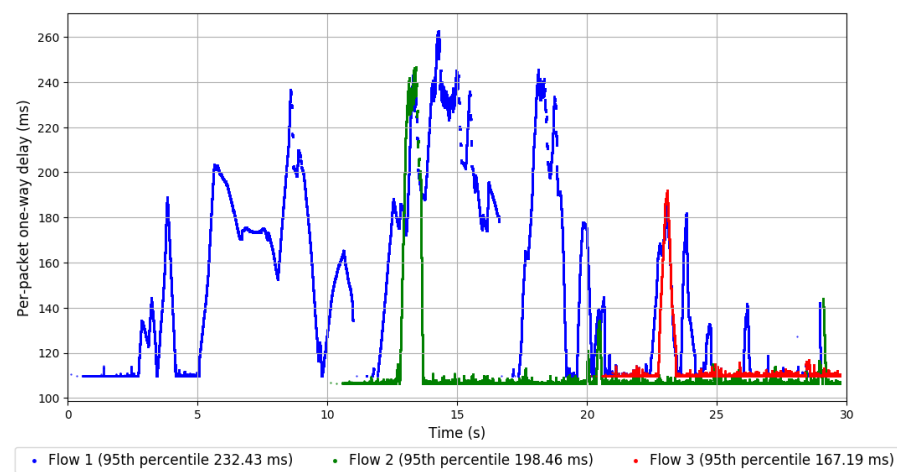
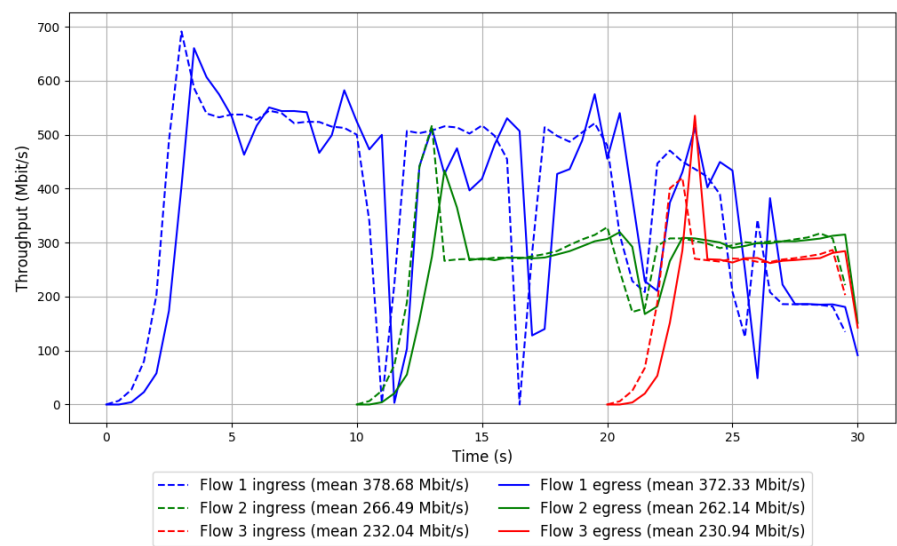
-- Flow 3:

Average throughput: 230.94 Mbit/s

95th percentile per-packet one-way delay: 167.190 ms

Loss rate: 2.71%

Run 1: Report of PCC-Allegro — Data Link

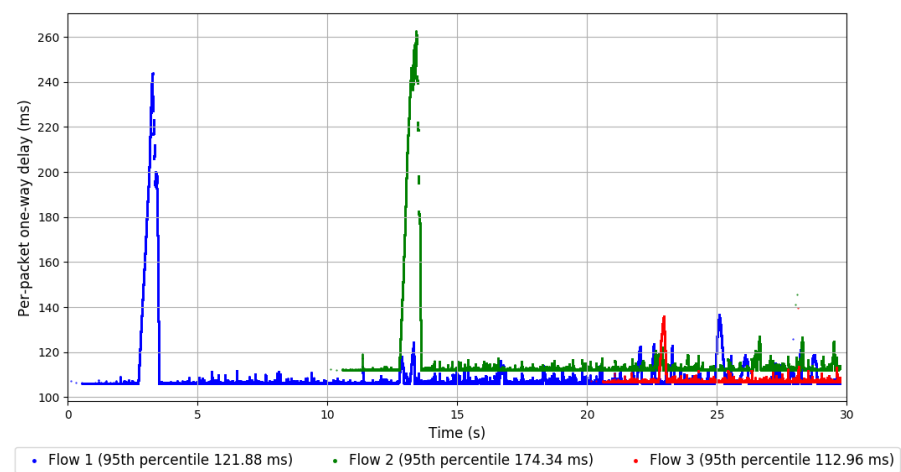
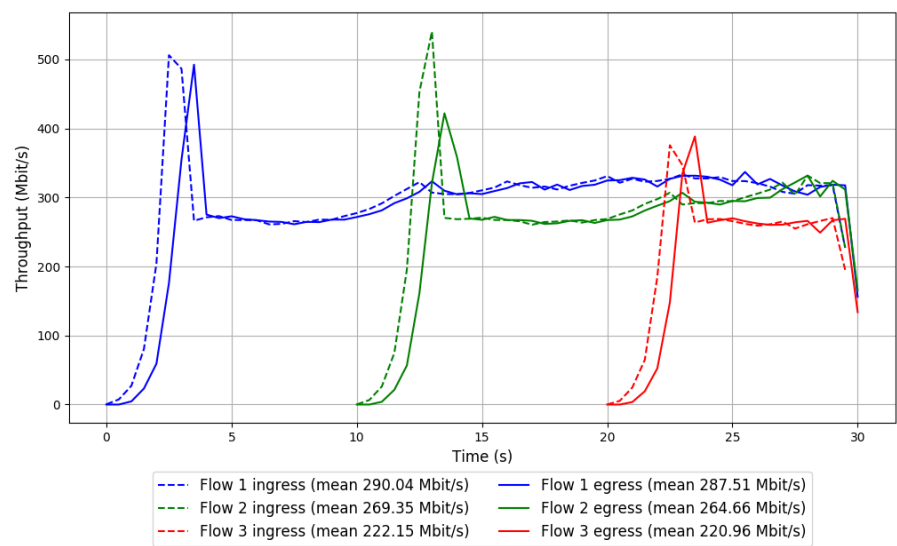


Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 04:12:56  
End at: 2019-11-24 04:13:26  
Local clock offset: -0.05 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-11-24 09:21:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 534.35 Mbit/s  
95th percentile per-packet one-way delay: 125.753 ms  
Loss rate: 2.16%  
-- Flow 1:  
Average throughput: 287.51 Mbit/s  
95th percentile per-packet one-way delay: 121.876 ms  
Loss rate: 1.60%  
-- Flow 2:  
Average throughput: 264.66 Mbit/s  
95th percentile per-packet one-way delay: 174.335 ms  
Loss rate: 2.84%  
-- Flow 3:  
Average throughput: 220.96 Mbit/s  
95th percentile per-packet one-way delay: 112.956 ms  
Loss rate: 2.74%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 04:55:38

End at: 2019-11-24 04:56:08

Local clock offset: -0.101 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-11-24 09:21:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 553.54 Mbit/s

95th percentile per-packet one-way delay: 171.618 ms

Loss rate: 1.94%

-- Flow 1:

Average throughput: 303.54 Mbit/s

95th percentile per-packet one-way delay: 179.288 ms

Loss rate: 2.00%

-- Flow 2:

Average throughput: 265.32 Mbit/s

95th percentile per-packet one-way delay: 141.160 ms

Loss rate: 1.39%

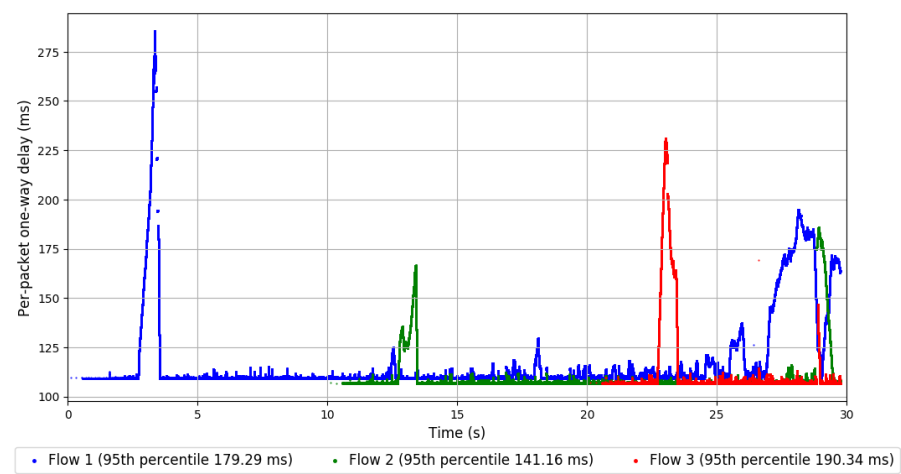
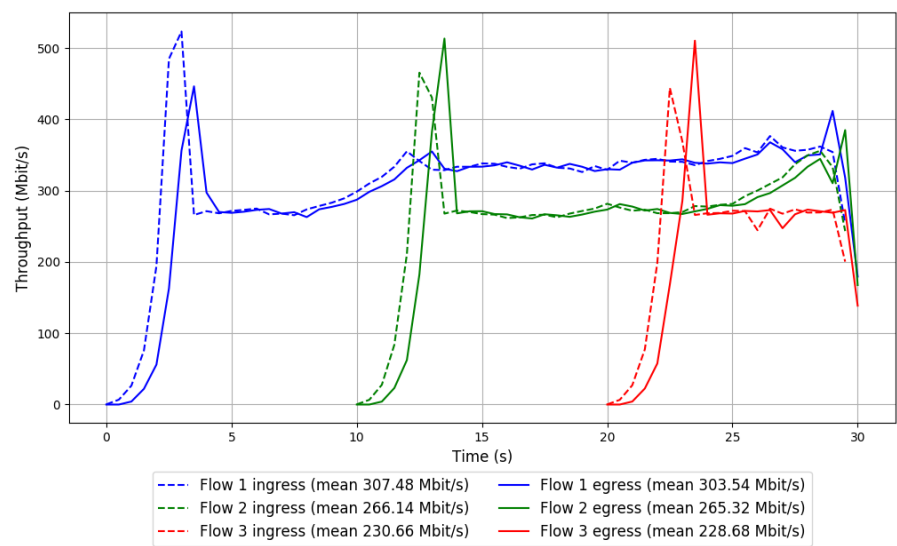
-- Flow 3:

Average throughput: 228.68 Mbit/s

95th percentile per-packet one-way delay: 190.336 ms

Loss rate: 3.01%

Run 3: Report of PCC-Allegro — Data Link

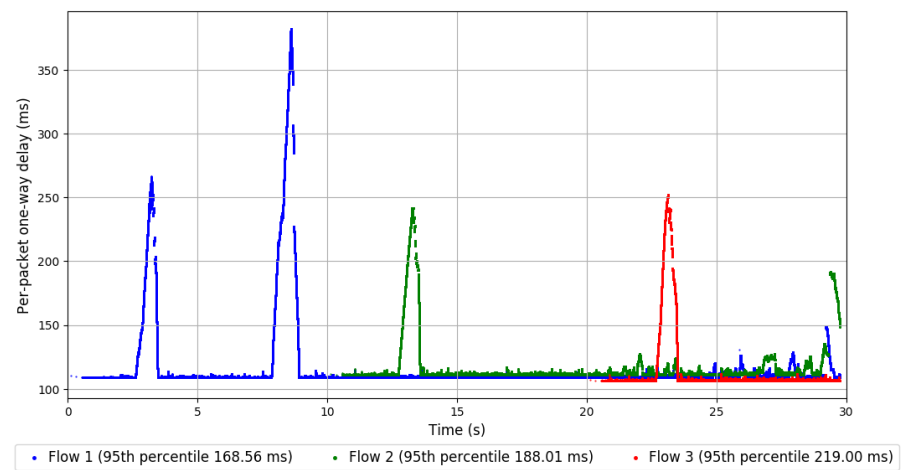
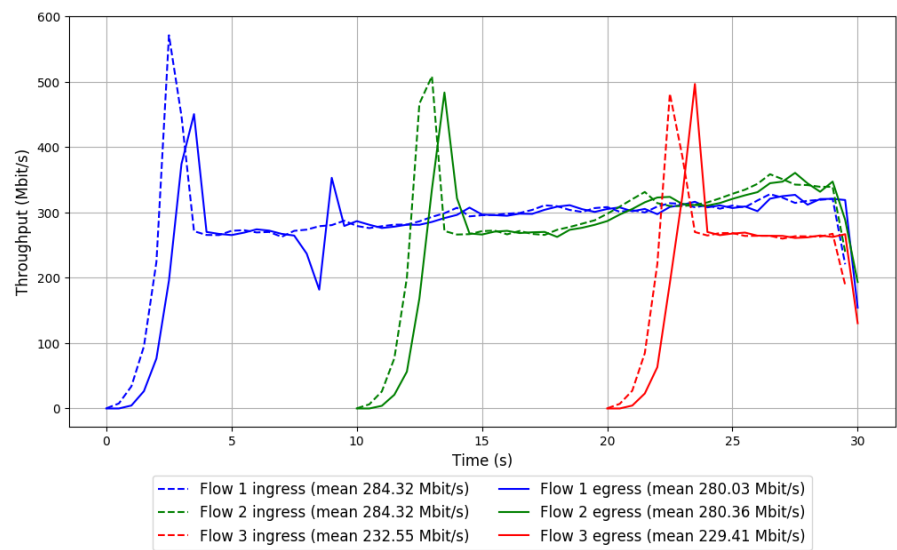


Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 05:38:13  
End at: 2019-11-24 05:38:43  
Local clock offset: -0.137 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-11-24 09:23:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 540.19 Mbit/s  
95th percentile per-packet one-way delay: 188.812 ms  
Loss rate: 2.50%  
-- Flow 1:  
Average throughput: 280.03 Mbit/s  
95th percentile per-packet one-way delay: 168.555 ms  
Loss rate: 2.24%  
-- Flow 2:  
Average throughput: 280.36 Mbit/s  
95th percentile per-packet one-way delay: 188.012 ms  
Loss rate: 2.48%  
-- Flow 3:  
Average throughput: 229.41 Mbit/s  
95th percentile per-packet one-way delay: 218.999 ms  
Loss rate: 3.54%

Run 4: Report of PCC-Allegro — Data Link

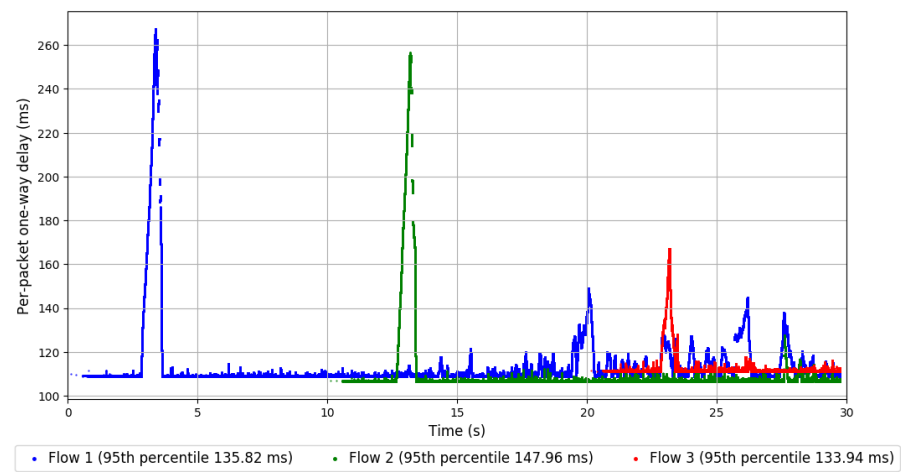
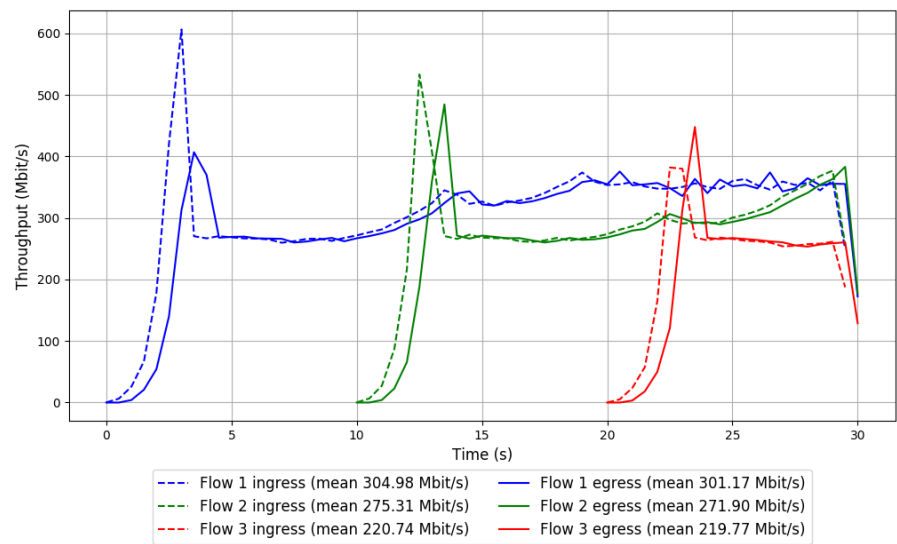


Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 06:19:58  
End at: 2019-11-24 06:20:28  
Local clock offset: -0.069 ms  
Remote clock offset: -0.002 ms

# Below is generated by plot.py at 2019-11-24 09:24:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 552.47 Mbit/s  
95th percentile per-packet one-way delay: 136.227 ms  
Loss rate: 2.18%  
-- Flow 1:  
Average throughput: 301.17 Mbit/s  
95th percentile per-packet one-way delay: 135.825 ms  
Loss rate: 1.98%  
-- Flow 2:  
Average throughput: 271.90 Mbit/s  
95th percentile per-packet one-way delay: 147.956 ms  
Loss rate: 2.32%  
-- Flow 3:  
Average throughput: 219.77 Mbit/s  
95th percentile per-packet one-way delay: 133.945 ms  
Loss rate: 2.69%

Run 5: Report of PCC-Allegro — Data Link

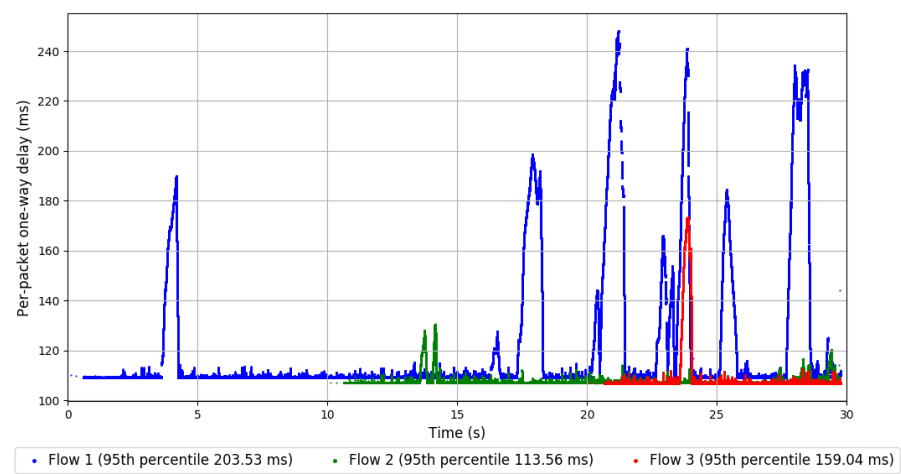
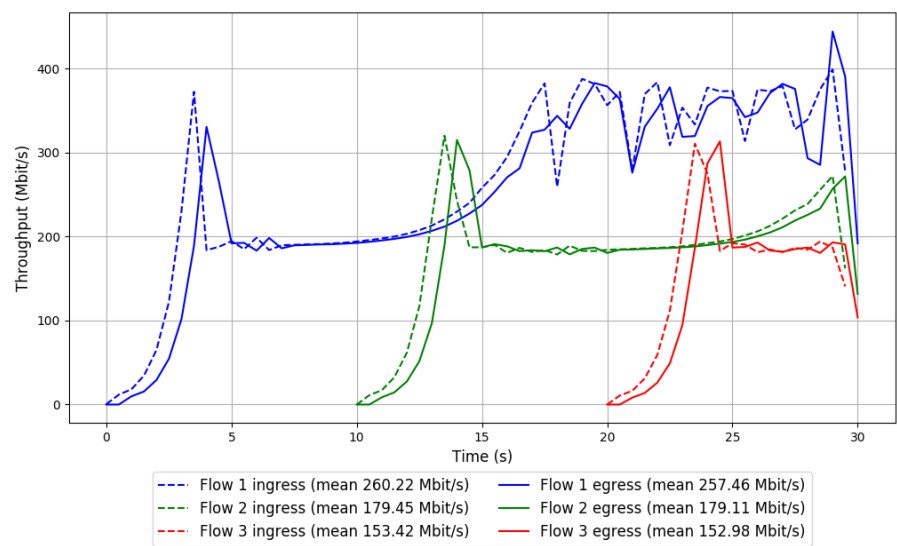


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 03:46:00
End at: 2019-11-24 03:46:30
Local clock offset: 0.125 ms
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-11-24 09:24:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.79 Mbit/s
95th percentile per-packet one-way delay: 183.636 ms
Loss rate: 1.72%
-- Flow 1:
Average throughput: 257.46 Mbit/s
95th percentile per-packet one-way delay: 203.526 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 179.11 Mbit/s
95th percentile per-packet one-way delay: 113.564 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 152.98 Mbit/s
95th percentile per-packet one-way delay: 159.039 ms
Loss rate: 2.49%
```

Run 1: Report of PCC-Expr — Data Link



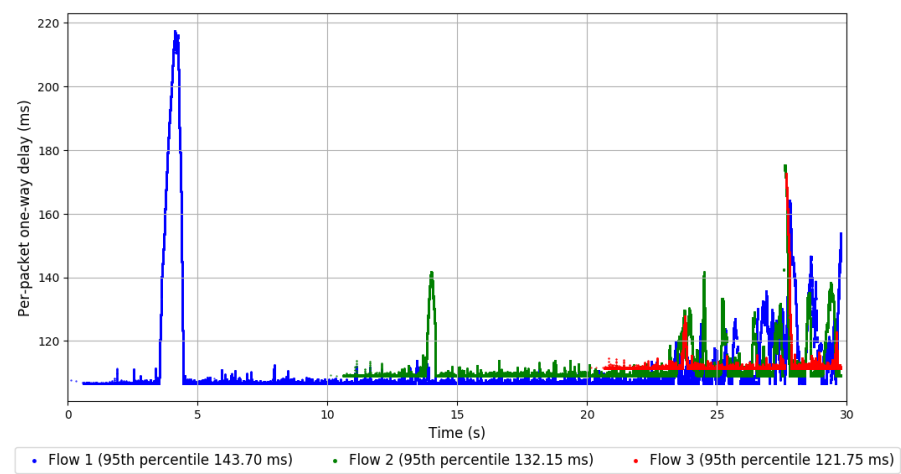
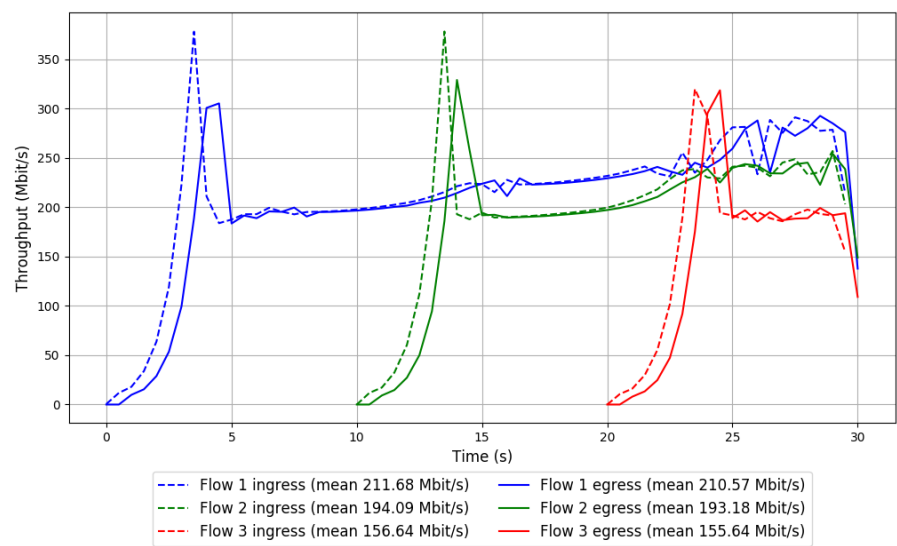


Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 04:28:32  
End at: 2019-11-24 04:29:02  
Local clock offset: -0.062 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 09:24:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 389.13 Mbit/s  
95th percentile per-packet one-way delay: 134.404 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 210.57 Mbit/s  
95th percentile per-packet one-way delay: 143.703 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 193.18 Mbit/s  
95th percentile per-packet one-way delay: 132.149 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 155.64 Mbit/s  
95th percentile per-packet one-way delay: 121.752 ms  
Loss rate: 2.89%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 05:11:15

End at: 2019-11-24 05:11:45

Local clock offset: 0.075 ms

Remote clock offset: 0.339 ms

# Below is generated by plot.py at 2019-11-24 09:28:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 445.15 Mbit/s

95th percentile per-packet one-way delay: 199.649 ms

Loss rate: 2.24%

-- Flow 1:

Average throughput: 278.62 Mbit/s

95th percentile per-packet one-way delay: 212.262 ms

Loss rate: 2.37%

-- Flow 2:

Average throughput: 174.39 Mbit/s

95th percentile per-packet one-way delay: 110.044 ms

Loss rate: 1.47%

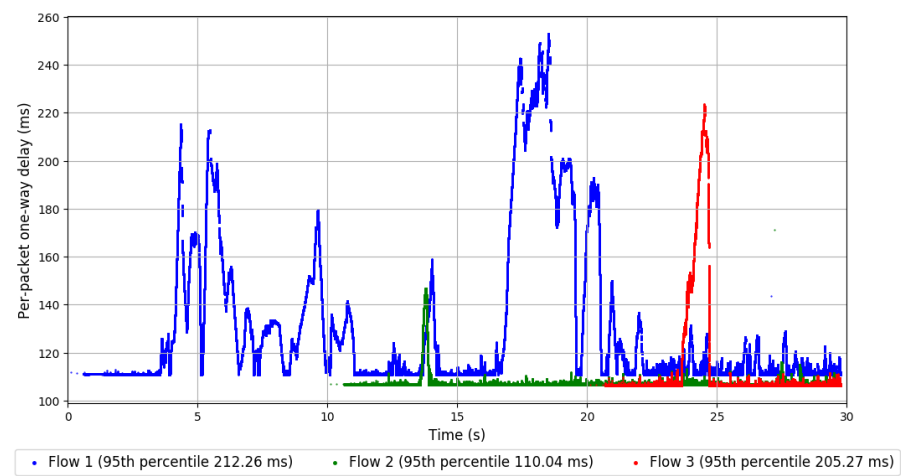
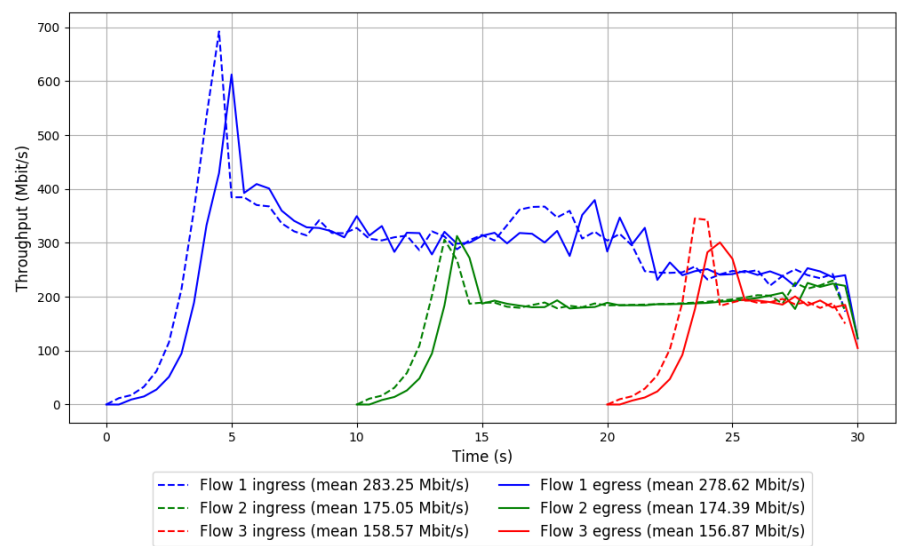
-- Flow 3:

Average throughput: 156.87 Mbit/s

95th percentile per-packet one-way delay: 205.268 ms

Loss rate: 3.27%

Run 3: Report of PCC-Expr — Data Link

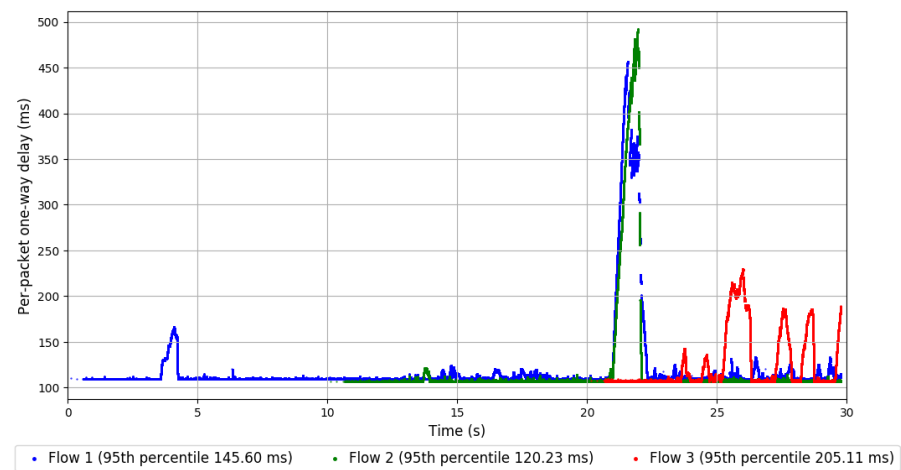
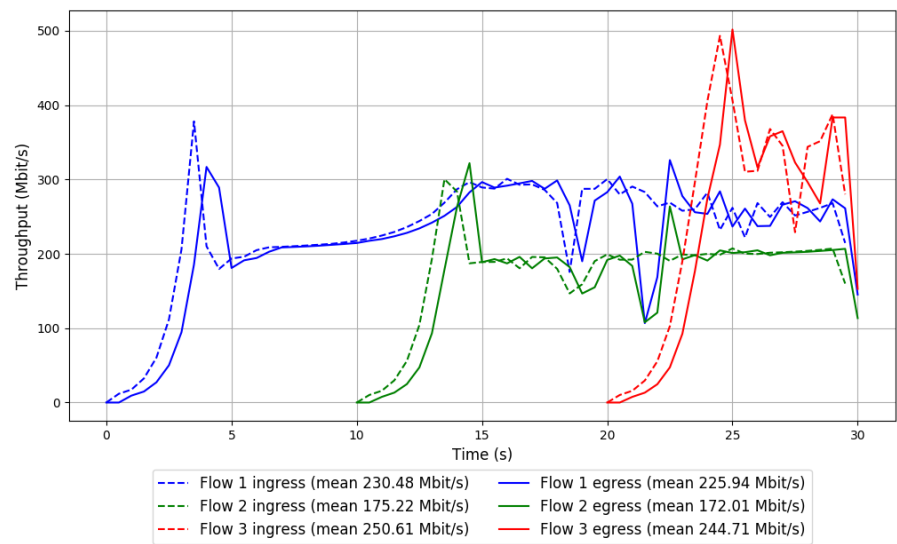


Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 05:53:11  
End at: 2019-11-24 05:53:41  
Local clock offset: -0.142 ms  
Remote clock offset: -0.471 ms

# Below is generated by plot.py at 2019-11-24 09:35:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 419.32 Mbit/s  
95th percentile per-packet one-way delay: 182.584 ms  
Loss rate: 3.10%  
-- Flow 1:  
Average throughput: 225.94 Mbit/s  
95th percentile per-packet one-way delay: 145.596 ms  
Loss rate: 2.70%  
-- Flow 2:  
Average throughput: 172.01 Mbit/s  
95th percentile per-packet one-way delay: 120.230 ms  
Loss rate: 2.91%  
-- Flow 3:  
Average throughput: 244.71 Mbit/s  
95th percentile per-packet one-way delay: 205.111 ms  
Loss rate: 4.51%

Run 4: Report of PCC-Expr — Data Link

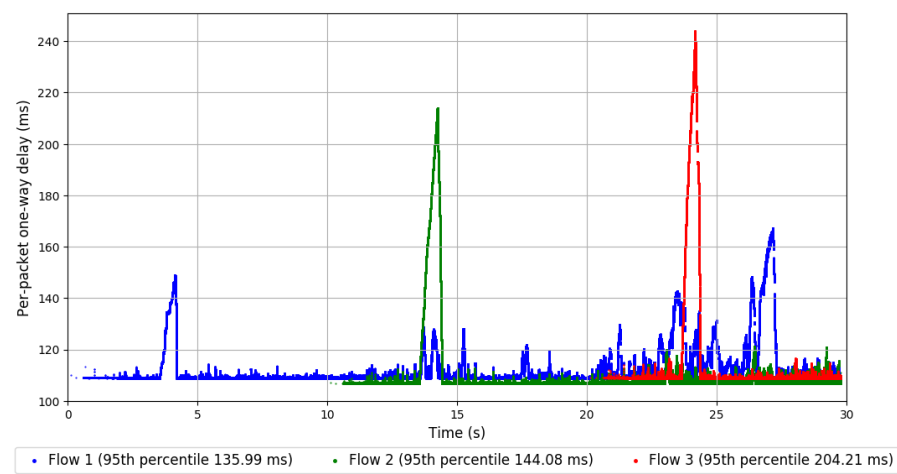
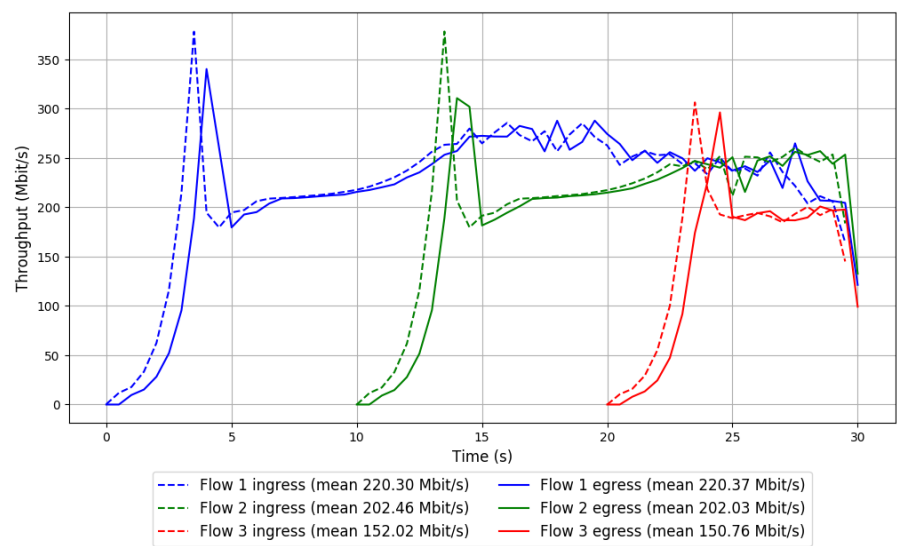


Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 06:35:26  
End at: 2019-11-24 06:35:56  
Local clock offset: -0.043 ms  
Remote clock offset: -0.057 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 403.26 Mbit/s  
95th percentile per-packet one-way delay: 141.734 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 220.37 Mbit/s  
95th percentile per-packet one-way delay: 135.987 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 202.03 Mbit/s  
95th percentile per-packet one-way delay: 144.079 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 150.76 Mbit/s  
95th percentile per-packet one-way delay: 204.213 ms  
Loss rate: 3.04%

Run 5: Report of PCC-Expr — Data Link



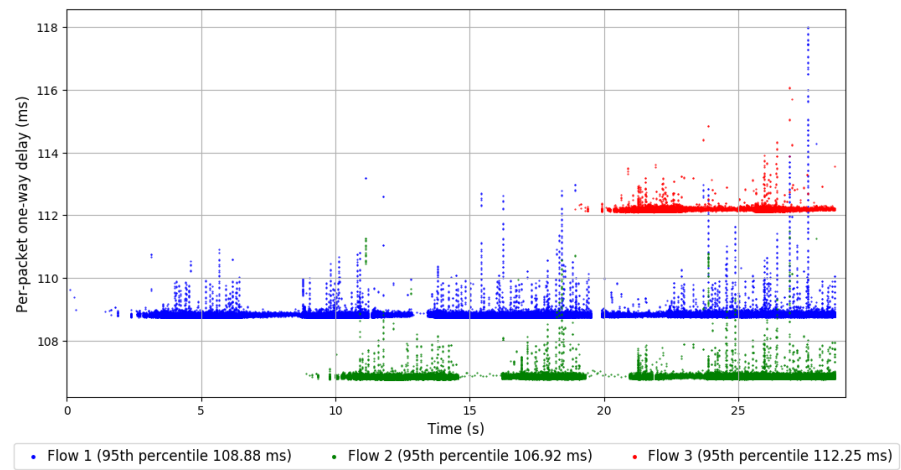
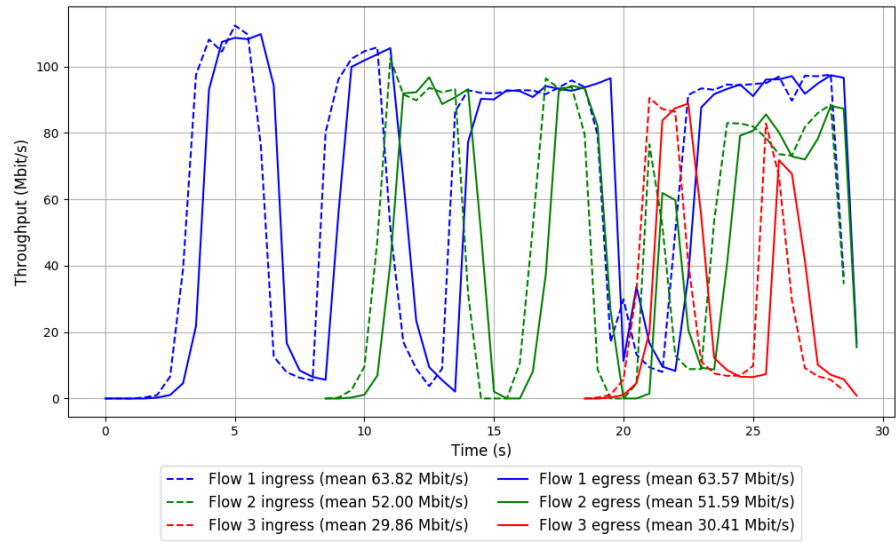


Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 03:51:11  
End at: 2019-11-24 03:51:41  
Local clock offset: -0.051 ms  
Remote clock offset: -0.099 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 109.55 Mbit/s  
95th percentile per-packet one-way delay: 112.170 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 63.57 Mbit/s  
95th percentile per-packet one-way delay: 108.882 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 51.59 Mbit/s  
95th percentile per-packet one-way delay: 106.915 ms  
Loss rate: 1.87%  
-- Flow 3:  
Average throughput: 30.41 Mbit/s  
95th percentile per-packet one-way delay: 112.249 ms  
Loss rate: 0.47%

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

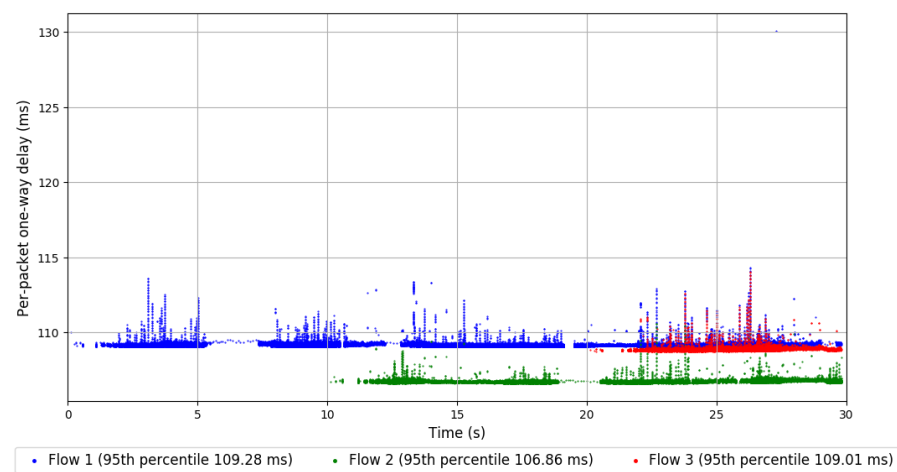
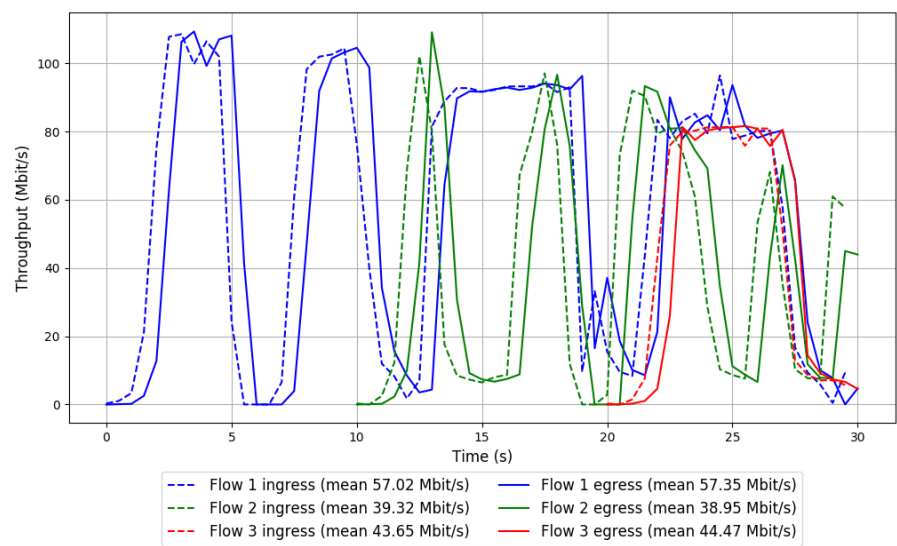


Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 04:33:44  
End at: 2019-11-24 04:34:14  
Local clock offset: -0.128 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.65 Mbit/s  
95th percentile per-packet one-way delay: 109.249 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 57.35 Mbit/s  
95th percentile per-packet one-way delay: 109.277 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 38.95 Mbit/s  
95th percentile per-packet one-way delay: 106.860 ms  
Loss rate: 2.00%  
-- Flow 3:  
Average throughput: 44.47 Mbit/s  
95th percentile per-packet one-way delay: 109.007 ms  
Loss rate: 0.36%

Run 2: Report of QUIC Cubic — Data Link

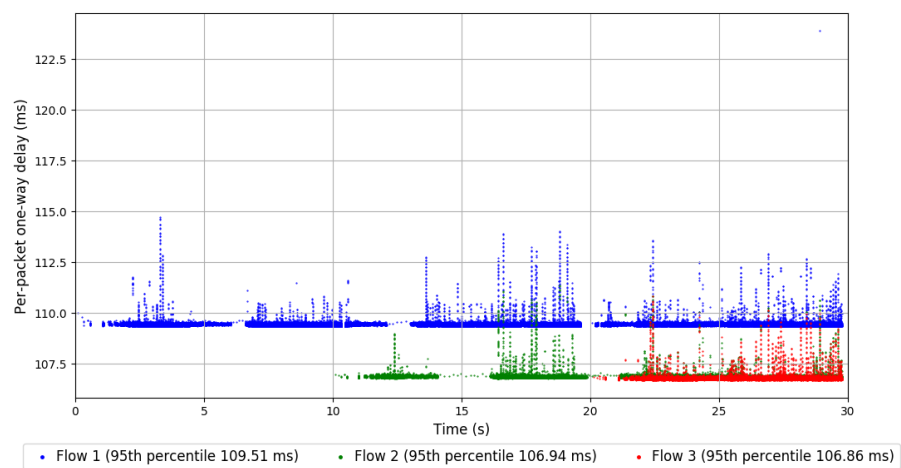
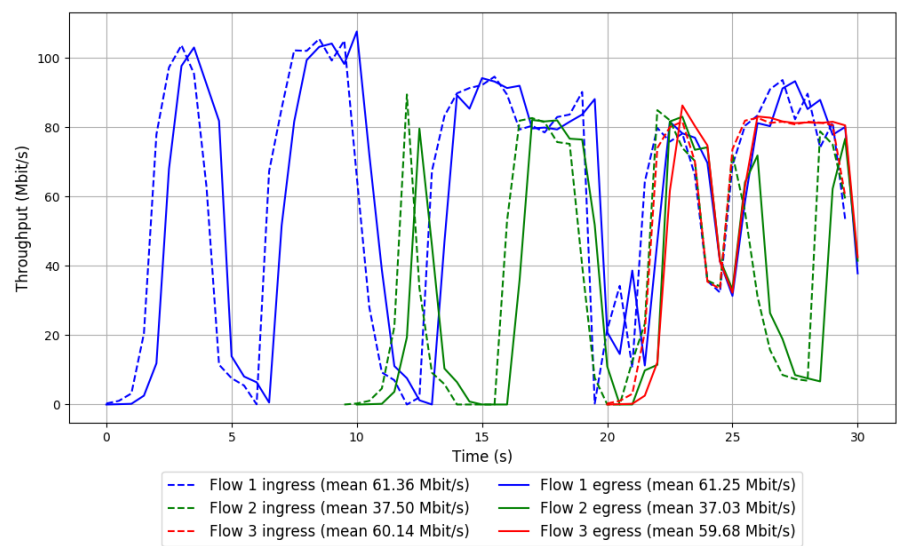


Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 05:16:28  
End at: 2019-11-24 05:16:58  
Local clock offset: 0.02 ms  
Remote clock offset: -0.105 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 105.22 Mbit/s  
95th percentile per-packet one-way delay: 109.485 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 61.25 Mbit/s  
95th percentile per-packet one-way delay: 109.506 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 37.03 Mbit/s  
95th percentile per-packet one-way delay: 106.935 ms  
Loss rate: 2.31%  
-- Flow 3:  
Average throughput: 59.68 Mbit/s  
95th percentile per-packet one-way delay: 106.856 ms  
Loss rate: 2.95%

Run 3: Report of QUIC Cubic — Data Link

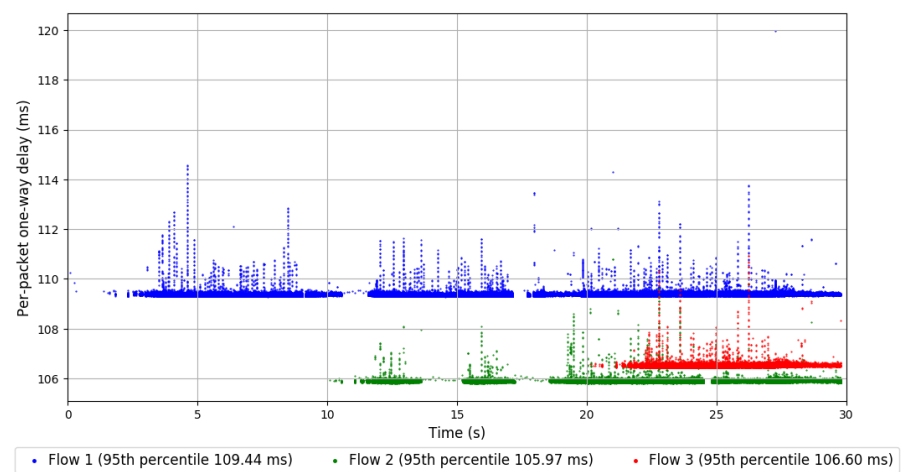
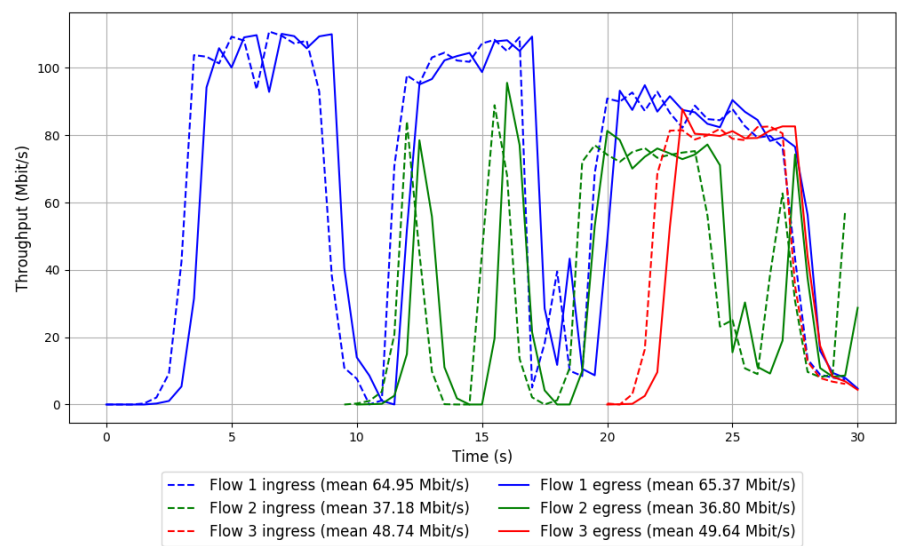


Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 05:58:24  
End at: 2019-11-24 05:58:54  
Local clock offset: -0.165 ms  
Remote clock offset: -0.021 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 105.95 Mbit/s  
95th percentile per-packet one-way delay: 109.420 ms  
Loss rate: 0.61%  
-- Flow 1:  
Average throughput: 65.37 Mbit/s  
95th percentile per-packet one-way delay: 109.438 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 36.80 Mbit/s  
95th percentile per-packet one-way delay: 105.966 ms  
Loss rate: 2.09%  
-- Flow 3:  
Average throughput: 49.64 Mbit/s  
95th percentile per-packet one-way delay: 106.598 ms  
Loss rate: 0.33%

Run 4: Report of QUIC Cubic — Data Link



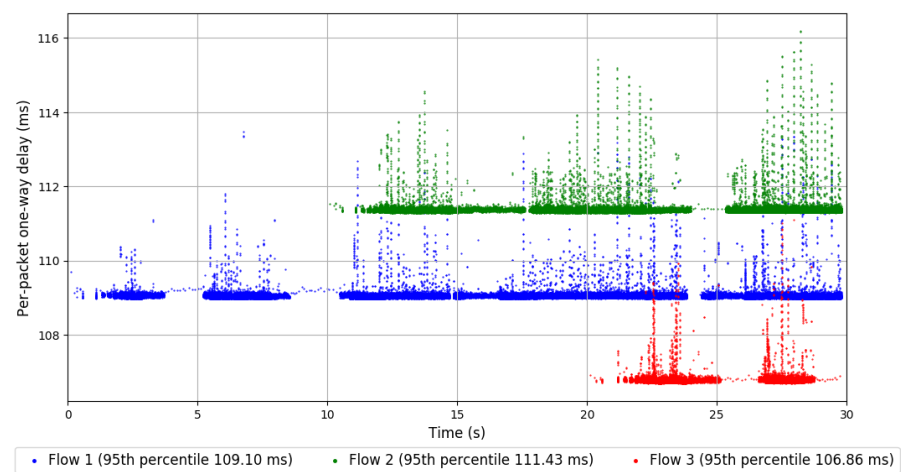
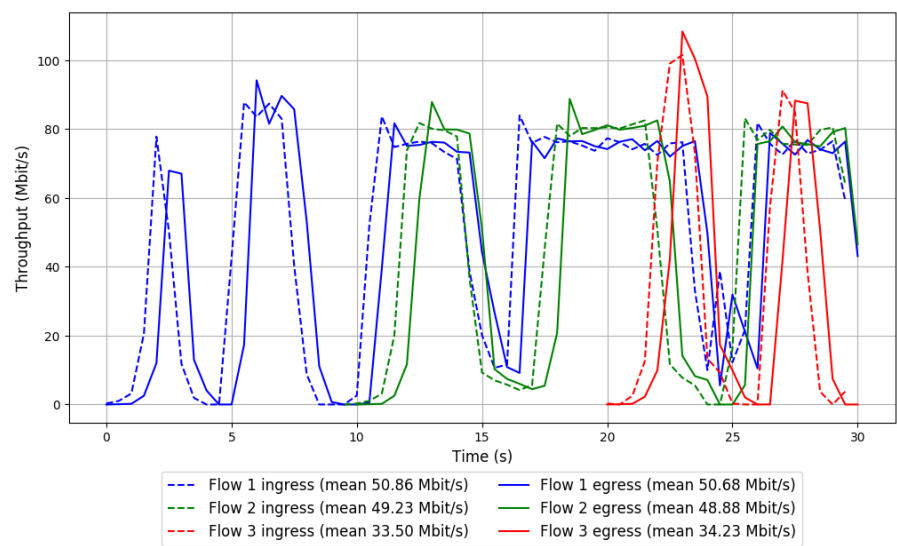


Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 06:40:36  
End at: 2019-11-24 06:41:06  
Local clock offset: -0.102 ms  
Remote clock offset: -0.058 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.20 Mbit/s  
95th percentile per-packet one-way delay: 111.380 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 50.68 Mbit/s  
95th percentile per-packet one-way delay: 109.103 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 48.88 Mbit/s  
95th percentile per-packet one-way delay: 111.428 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 34.23 Mbit/s  
95th percentile per-packet one-way delay: 106.861 ms  
Loss rate: 0.57%

Run 5: Report of QUIC Cubic — Data Link

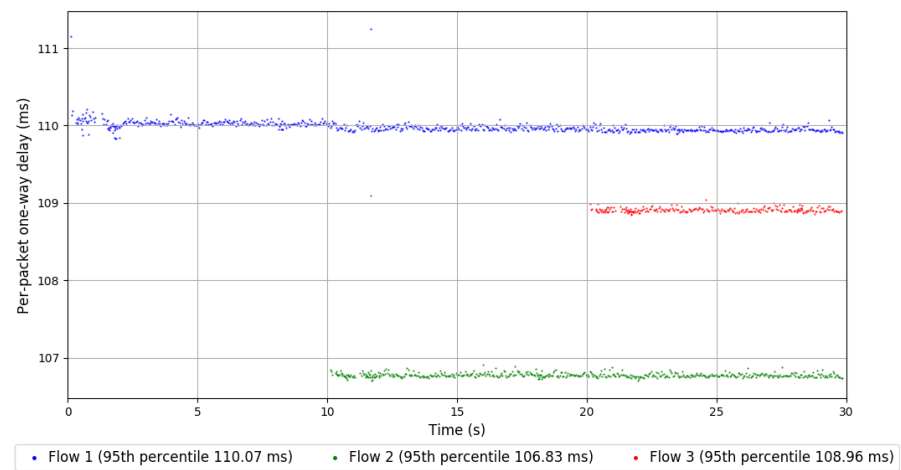
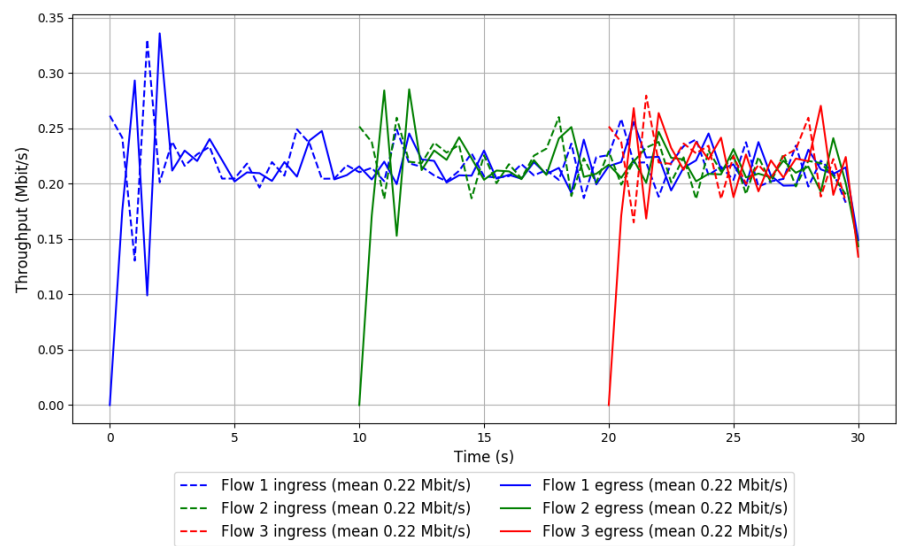


Run 1: Statistics of SReAM

Start at: 2019-11-24 03:37:48  
End at: 2019-11-24 03:38:18  
Local clock offset: -0.055 ms  
Remote clock offset: -0.025 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 110.049 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 110.071 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 106.832 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 108.961 ms  
Loss rate: 2.22%

Run 1: Report of SReAM — Data Link

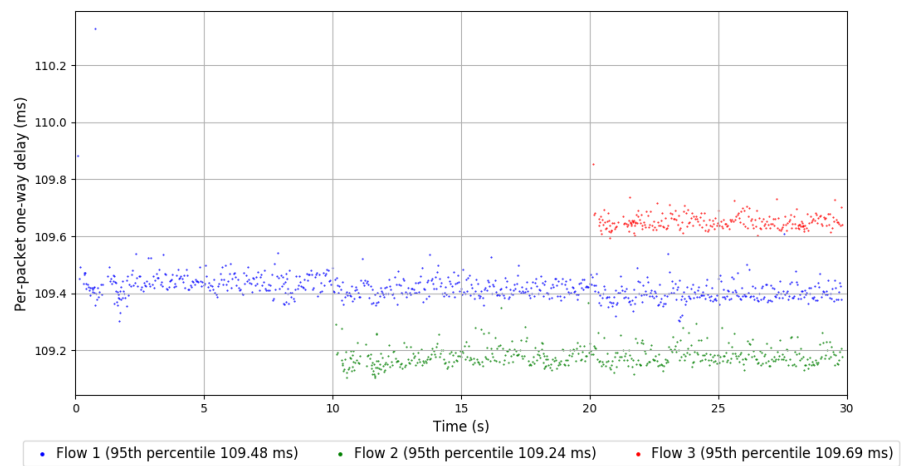
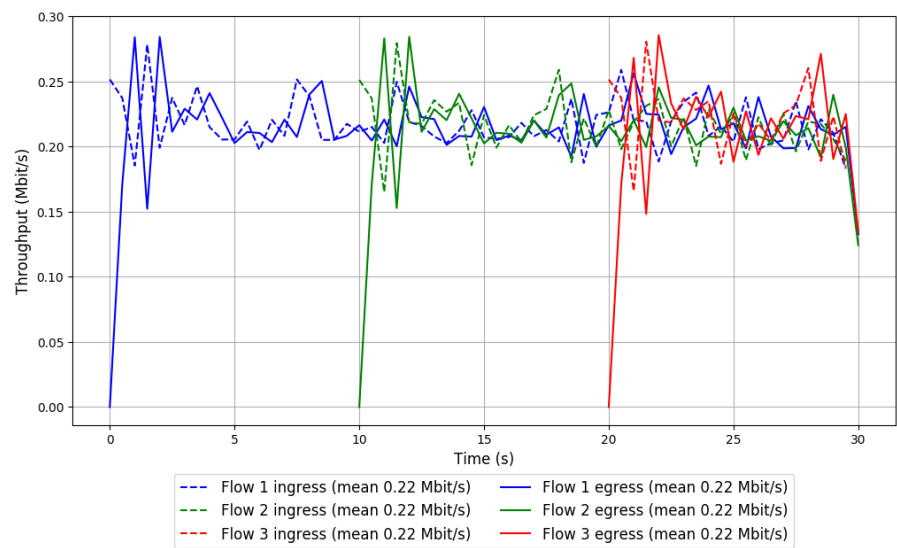


Run 2: Statistics of SReAM

Start at: 2019-11-24 04:20:12  
End at: 2019-11-24 04:20:42  
Local clock offset: -0.093 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 109.661 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.478 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.243 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 109.693 ms  
Loss rate: 2.22%

Run 2: Report of SReAM — Data Link

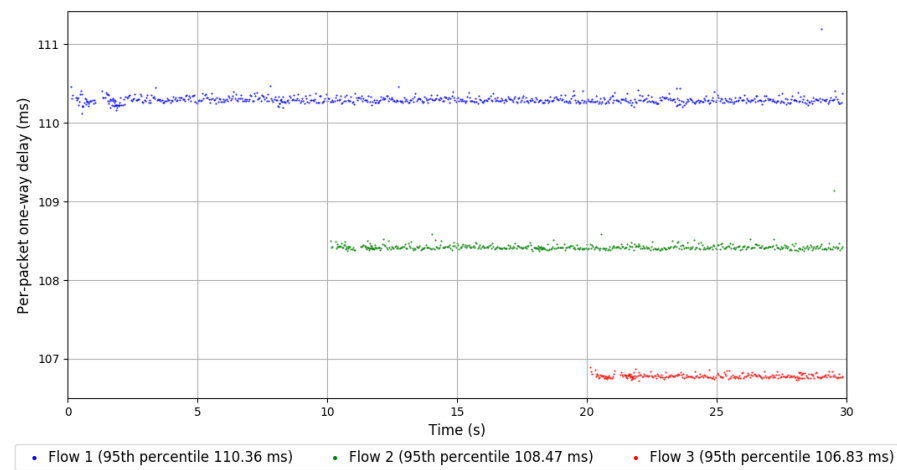
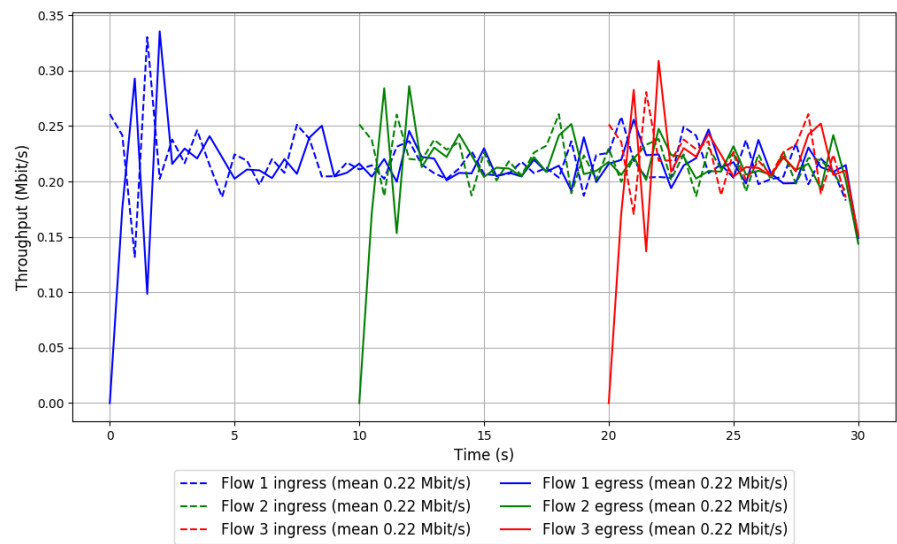


Run 3: Statistics of SReAM

Start at: 2019-11-24 05:03:14  
End at: 2019-11-24 05:03:44  
Local clock offset: -0.109 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 110.343 ms  
Loss rate: 0.98%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 110.359 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 108.469 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 106.832 ms  
Loss rate: 1.85%

Run 3: Report of SReAM — Data Link





Run 4: Statistics of SReAM

Start at: 2019-11-24 05:45:35

End at: 2019-11-24 05:46:05

Local clock offset: -0.128 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-11-24 09:35:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.40 Mbit/s

95th percentile per-packet one-way delay: 111.438 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 0.19 Mbit/s

95th percentile per-packet one-way delay: 111.458 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 107.042 ms

Loss rate: 1.25%

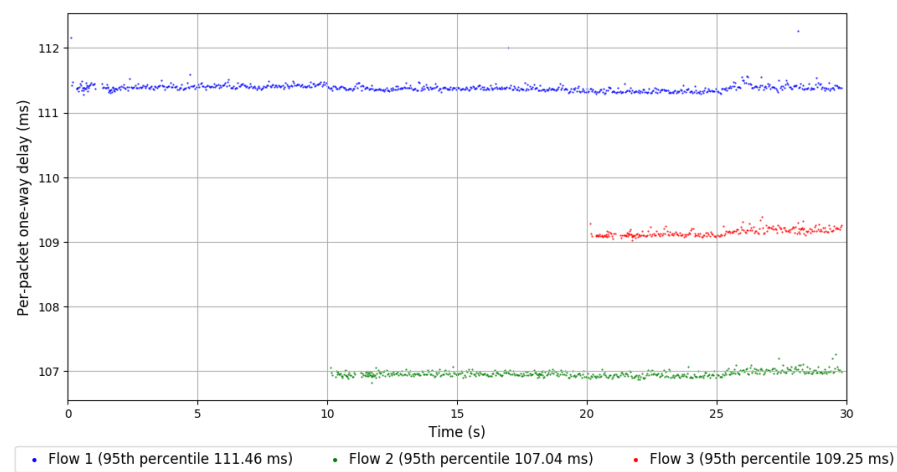
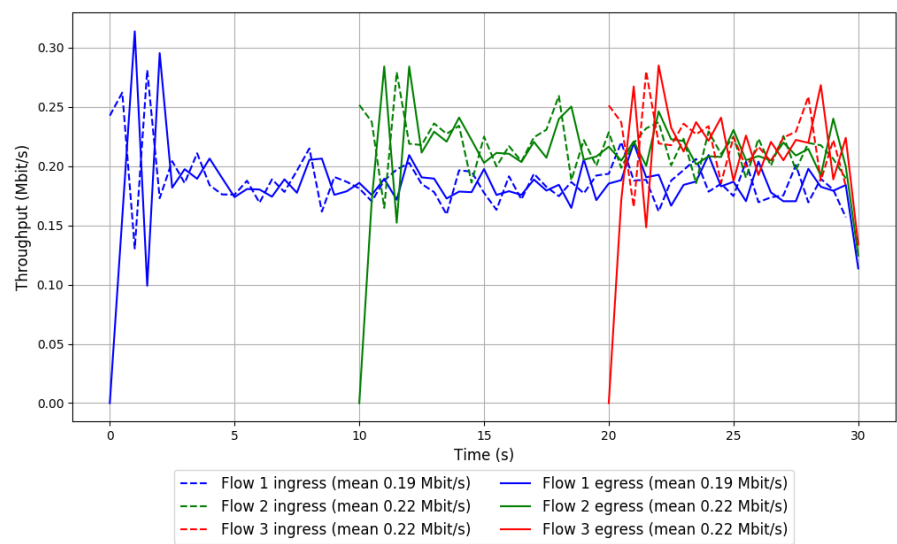
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.248 ms

Loss rate: 2.22%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2019-11-24 06:27:17

End at: 2019-11-24 06:27:47

Local clock offset: -0.044 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-11-24 09:35:21

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 110.327 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.316 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 110.361 ms

Loss rate: 1.24%

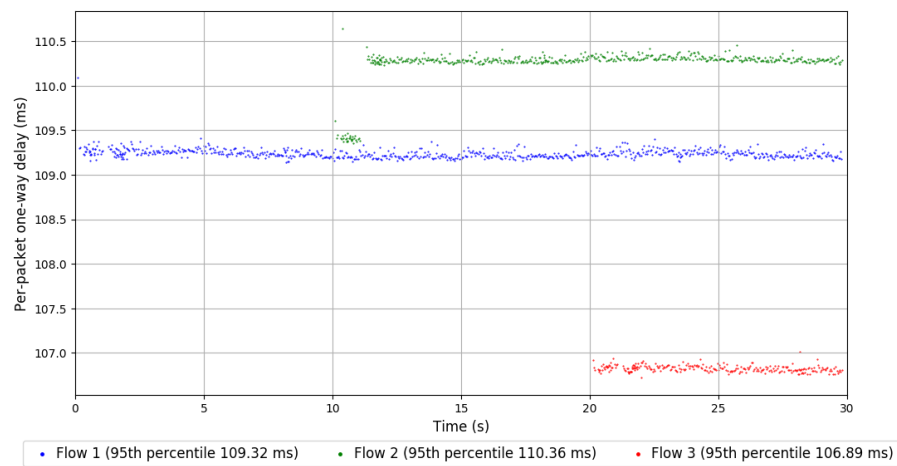
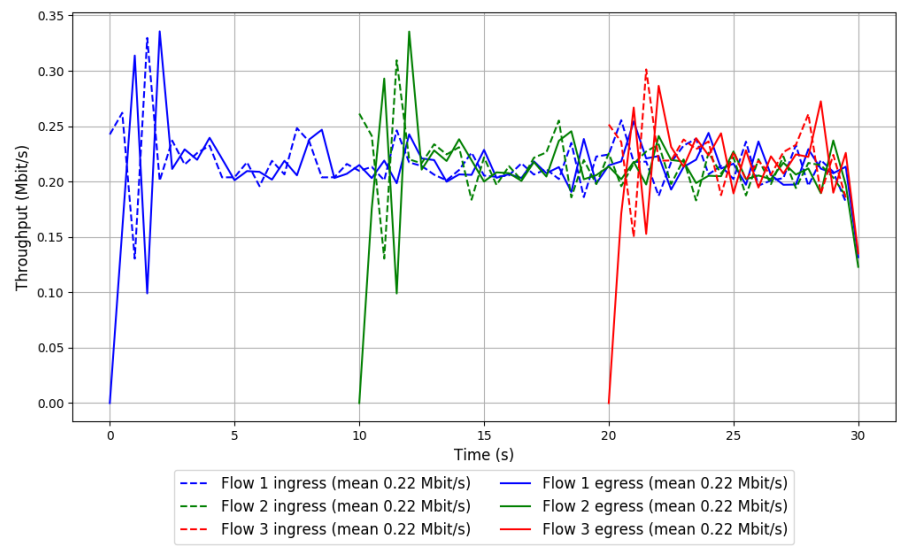
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.886 ms

Loss rate: 2.23%

Run 5: Report of SReAM — Data Link

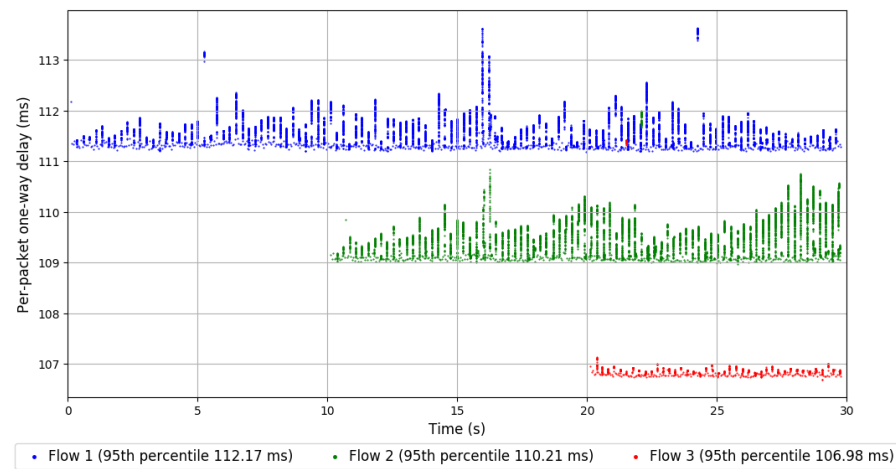
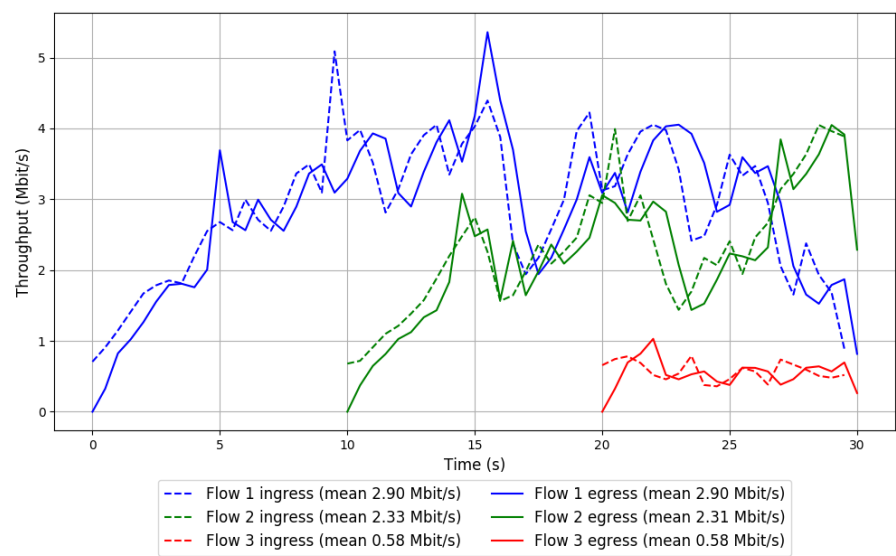


Run 1: Statistics of Sprout

Start at: 2019-11-24 03:21:20  
End at: 2019-11-24 03:21:50  
Local clock offset: -0.067 ms  
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.62 Mbit/s  
95th percentile per-packet one-way delay: 112.048 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 2.90 Mbit/s  
95th percentile per-packet one-way delay: 112.167 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 2.31 Mbit/s  
95th percentile per-packet one-way delay: 110.212 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 106.981 ms  
Loss rate: 2.26%

Run 1: Report of Sprout — Data Link

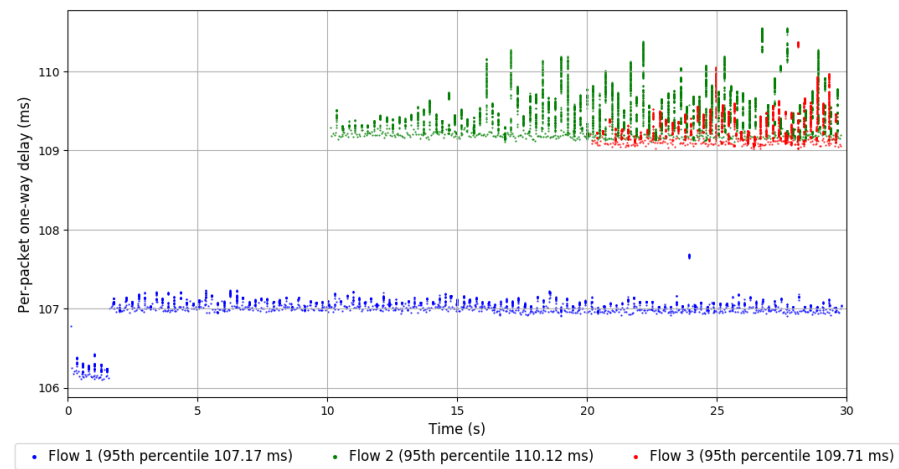
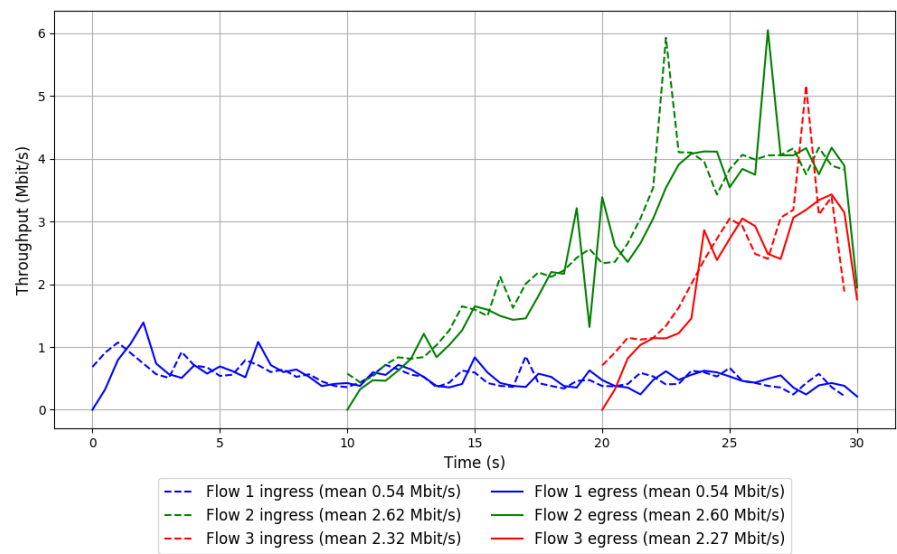


## Run 2: Statistics of Sprout

Start at: 2019-11-24 04:04:04  
End at: 2019-11-24 04:04:34  
Local clock offset: -0.078 ms  
Remote clock offset: -0.099 ms

```
# Below is generated by plot.py at 2019-11-24 09:35:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 109.972 ms
Loss rate: 2.16%
-- Flow 1:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 107.166 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 2.60 Mbit/s
95th percentile per-packet one-way delay: 110.117 ms
Loss rate: 1.80%
-- Flow 3:
Average throughput: 2.27 Mbit/s
95th percentile per-packet one-way delay: 109.713 ms
Loss rate: 4.10%
```

Run 2: Report of Sprout — Data Link



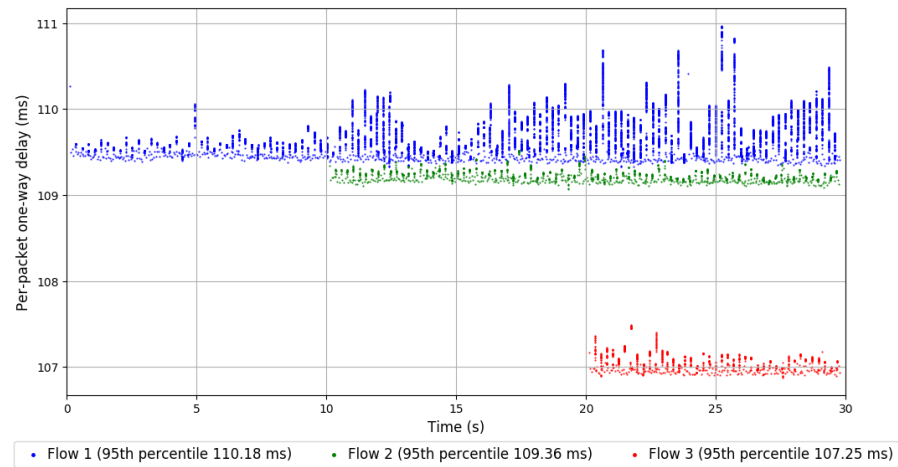
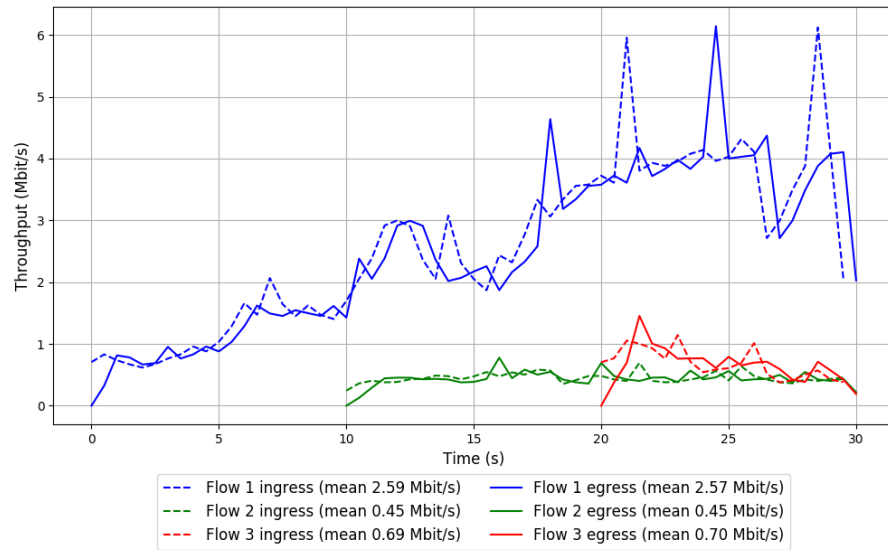


### Run 3: Statistics of Sprout

Start at: 2019-11-24 04:46:45  
End at: 2019-11-24 04:47:15  
Local clock offset: -0.054 ms  
Remote clock offset: -0.016 ms

```
# Below is generated by plot.py at 2019-11-24 09:35:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 110.128 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 110.176 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 109.359 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 107.245 ms
Loss rate: 1.42%
```

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

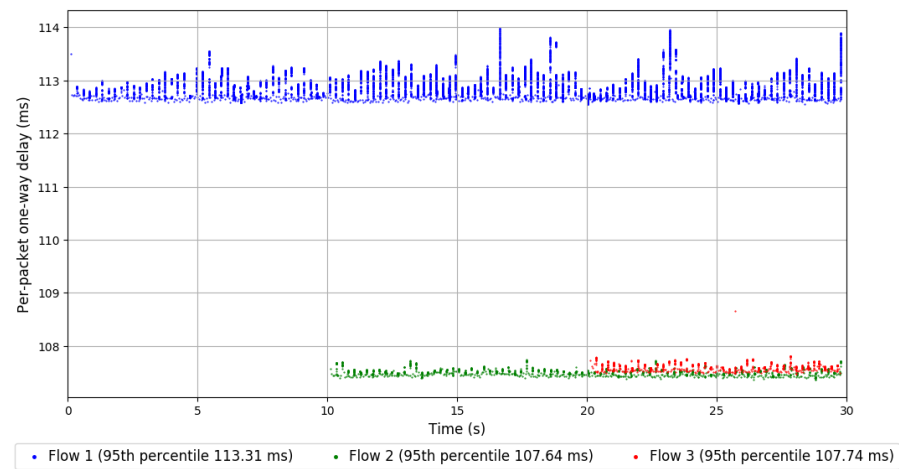
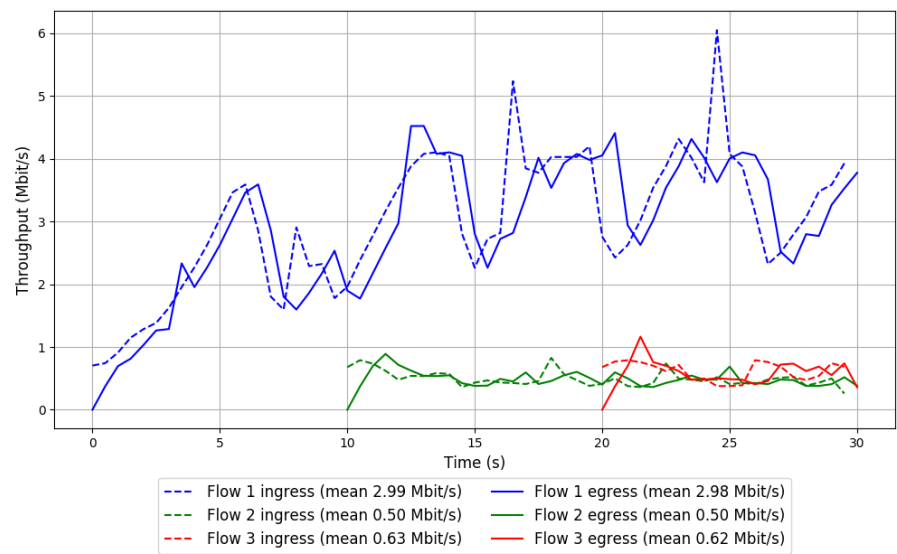


#### Run 4: Statistics of Sprout

Start at: 2019-11-24 05:29:29  
End at: 2019-11-24 05:29:59  
Local clock offset: 0.098 ms  
Remote clock offset: -0.464 ms

```
# Below is generated by plot.py at 2019-11-24 09:35:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.52 Mbit/s
95th percentile per-packet one-way delay: 113.268 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 2.98 Mbit/s
95th percentile per-packet one-way delay: 113.315 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 107.644 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 107.741 ms
Loss rate: 2.69%
```

Run 4: Report of Sprout — Data Link

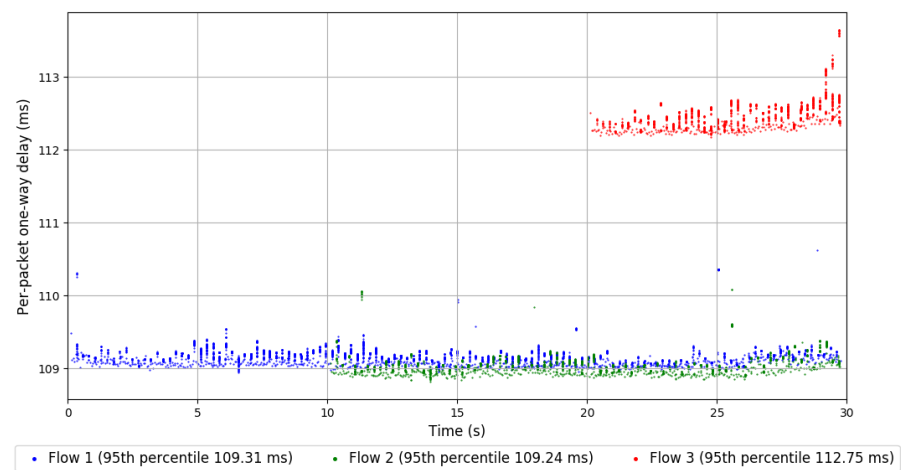
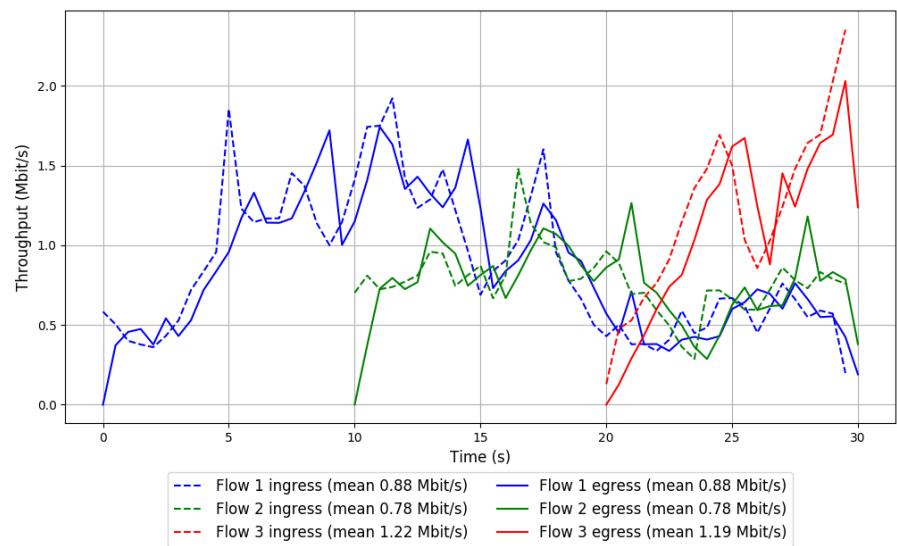


Run 5: Statistics of Sprout

Start at: 2019-11-24 06:11:12  
End at: 2019-11-24 06:11:42  
Local clock offset: -0.084 ms  
Remote clock offset: -0.008 ms

# Below is generated by plot.py at 2019-11-24 09:35:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.79 Mbit/s  
95th percentile per-packet one-way delay: 112.597 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 0.88 Mbit/s  
95th percentile per-packet one-way delay: 109.310 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 0.78 Mbit/s  
95th percentile per-packet one-way delay: 109.239 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 1.19 Mbit/s  
95th percentile per-packet one-way delay: 112.749 ms  
Loss rate: 4.65%

Run 5: Report of Sprout — Data Link

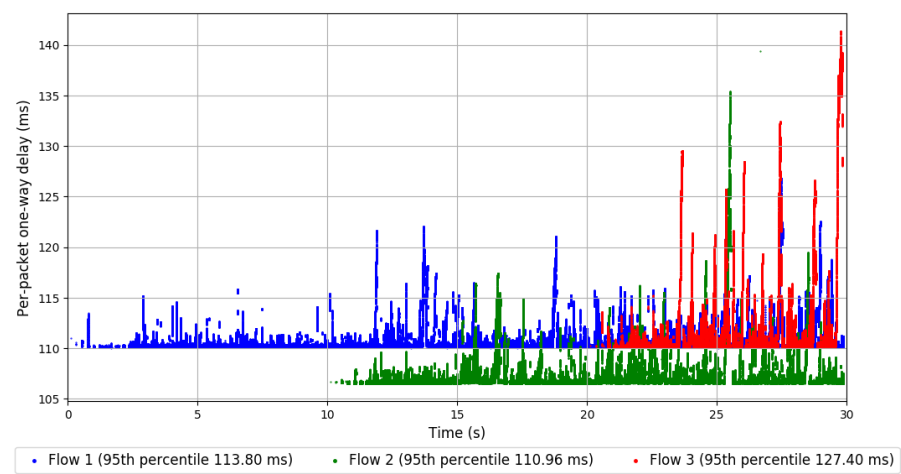
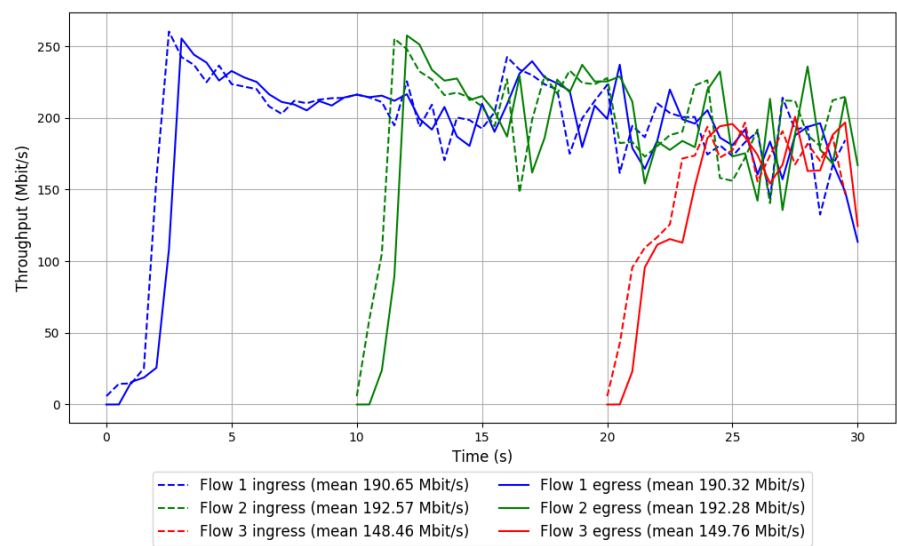


Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 03:40:51  
End at: 2019-11-24 03:41:21  
Local clock offset: -0.059 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-24 09:39:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.79 Mbit/s  
95th percentile per-packet one-way delay: 114.517 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 190.32 Mbit/s  
95th percentile per-packet one-way delay: 113.804 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 192.28 Mbit/s  
95th percentile per-packet one-way delay: 110.964 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 149.76 Mbit/s  
95th percentile per-packet one-way delay: 127.396 ms  
Loss rate: 1.66%

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



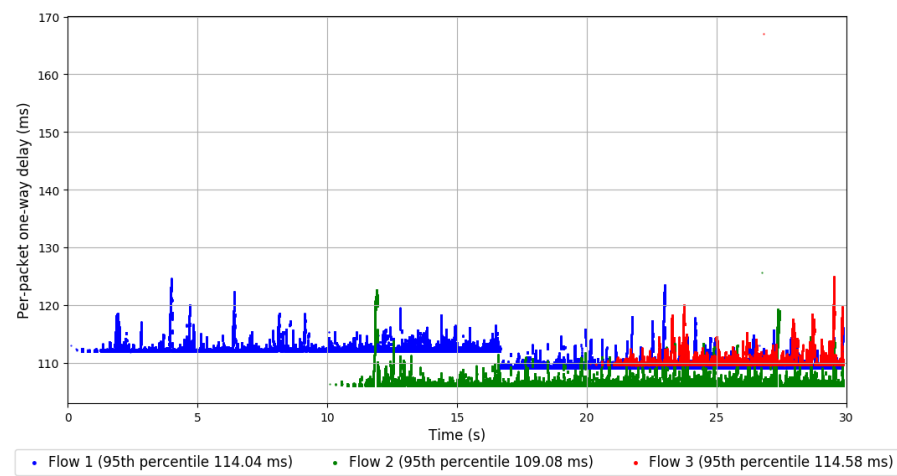
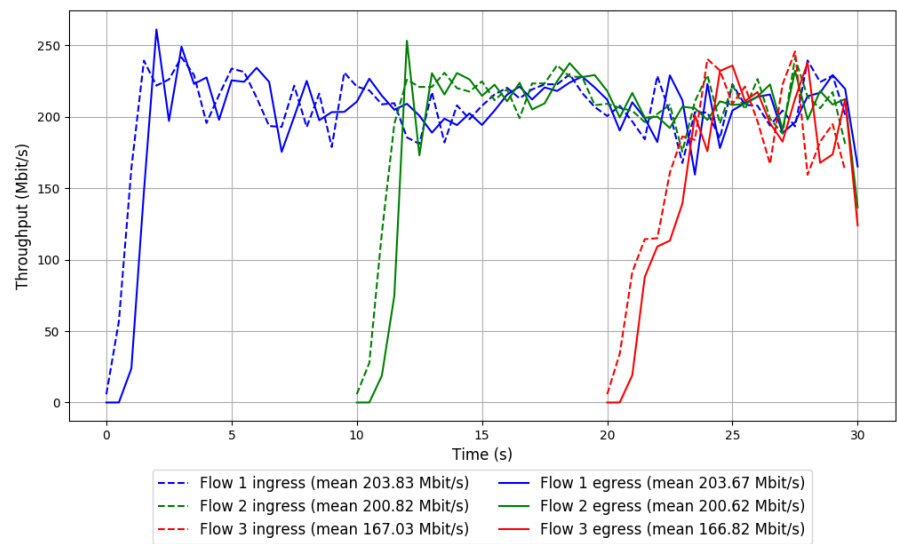


Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 04:23:20  
End at: 2019-11-24 04:23:50  
Local clock offset: -0.073 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-24 09:40:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 391.49 Mbit/s  
95th percentile per-packet one-way delay: 113.496 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 203.67 Mbit/s  
95th percentile per-packet one-way delay: 114.037 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 200.62 Mbit/s  
95th percentile per-packet one-way delay: 109.079 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 166.82 Mbit/s  
95th percentile per-packet one-way delay: 114.583 ms  
Loss rate: 2.34%

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

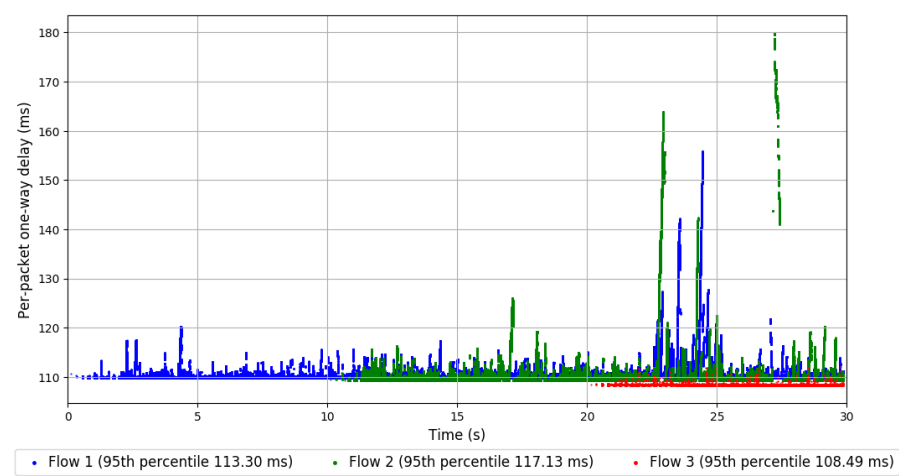
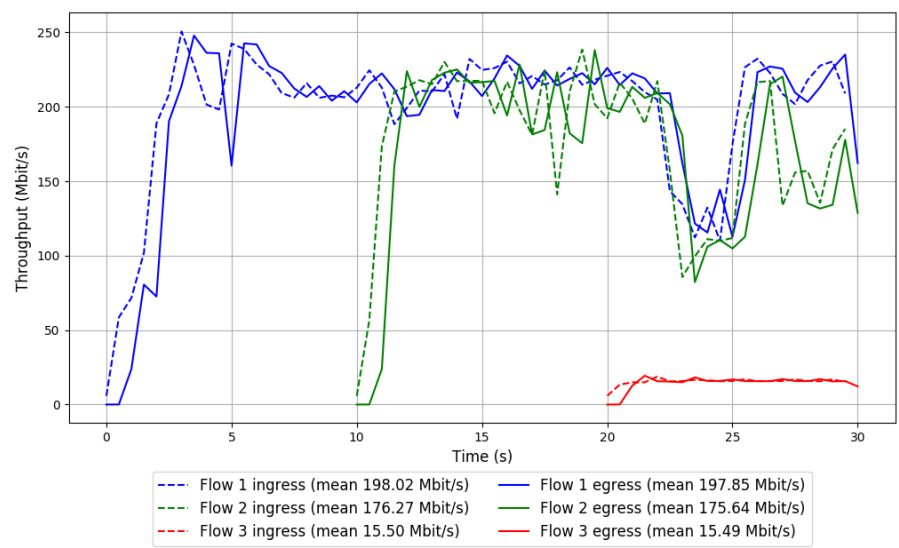


Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 05:06:09  
End at: 2019-11-24 05:06:39  
Local clock offset: -0.059 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-11-24 09:40:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 319.46 Mbit/s  
95th percentile per-packet one-way delay: 114.458 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 197.85 Mbit/s  
95th percentile per-packet one-way delay: 113.304 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 175.64 Mbit/s  
95th percentile per-packet one-way delay: 117.130 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 15.49 Mbit/s  
95th percentile per-packet one-way delay: 108.491 ms  
Loss rate: 2.29%

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

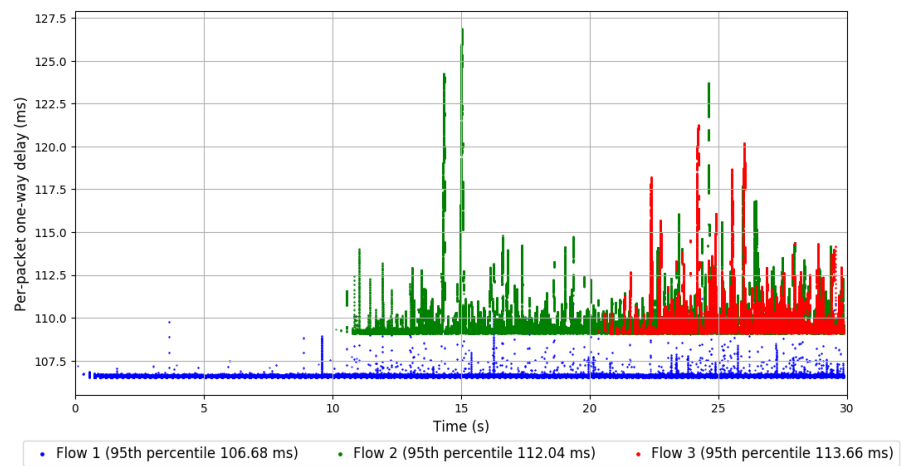
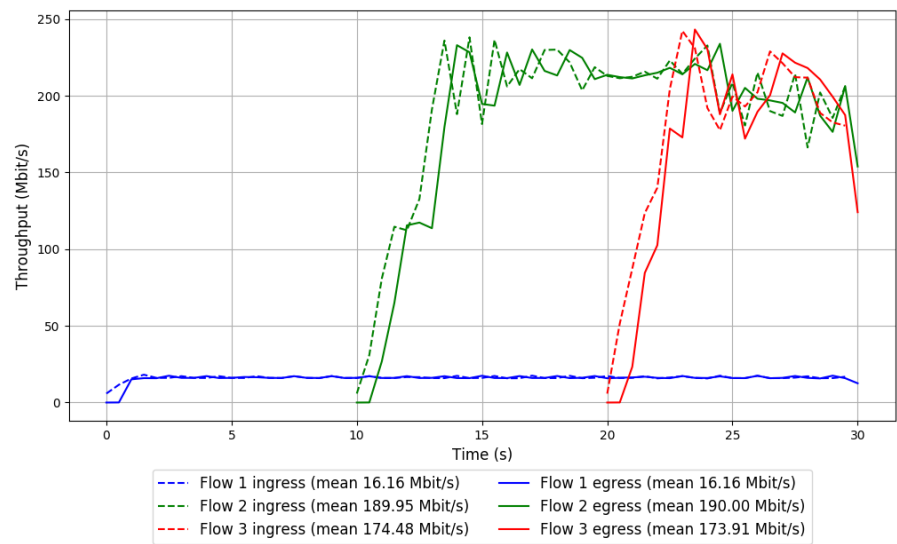


Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 05:48:35  
End at: 2019-11-24 05:49:05  
Local clock offset: -0.159 ms  
Remote clock offset: -0.118 ms

# Below is generated by plot.py at 2019-11-24 09:40:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 199.16 Mbit/s  
95th percentile per-packet one-way delay: 112.293 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 16.16 Mbit/s  
95th percentile per-packet one-way delay: 106.682 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 190.00 Mbit/s  
95th percentile per-packet one-way delay: 112.040 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 173.91 Mbit/s  
95th percentile per-packet one-way delay: 113.657 ms  
Loss rate: 2.54%

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



Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 06:30:18

End at: 2019-11-24 06:30:48

Local clock offset: -0.11 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-11-24 09:40:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 341.83 Mbit/s

95th percentile per-packet one-way delay: 116.155 ms

Loss rate: 1.19%

-- Flow 1:

Average throughput: 180.76 Mbit/s

95th percentile per-packet one-way delay: 117.701 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 164.01 Mbit/s

95th percentile per-packet one-way delay: 113.944 ms

Loss rate: 1.42%

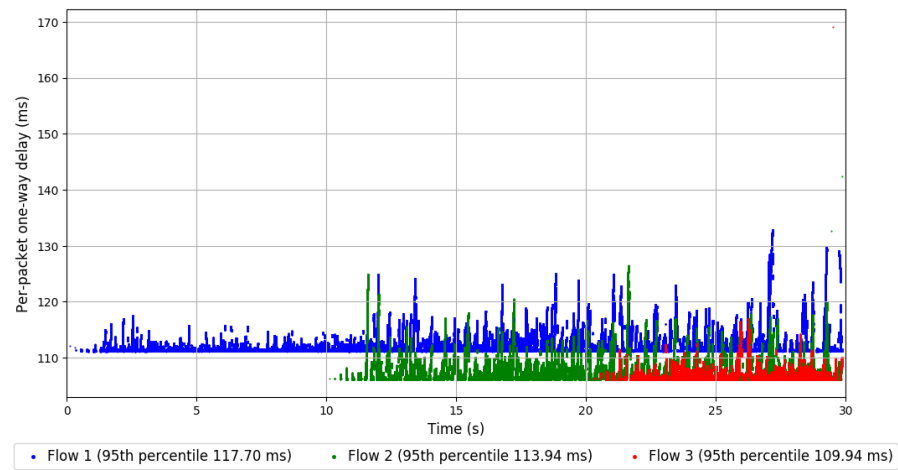
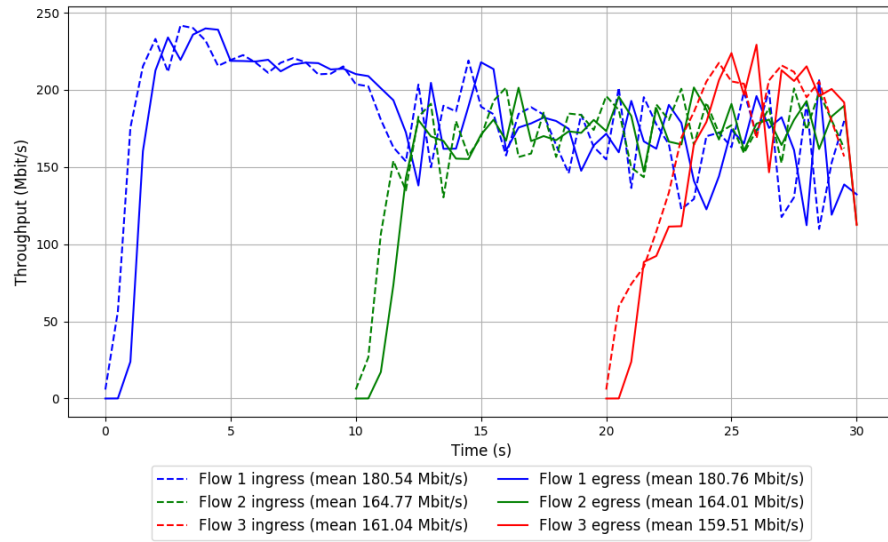
-- Flow 3:

Average throughput: 159.51 Mbit/s

95th percentile per-packet one-way delay: 109.938 ms

Loss rate: 2.63%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 03:24:29

End at: 2019-11-24 03:24:59

Local clock offset: -0.024 ms

Remote clock offset: 0.003 ms

# Below is generated by plot.py at 2019-11-24 09:44:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 710.38 Mbit/s

95th percentile per-packet one-way delay: 155.915 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 341.43 Mbit/s

95th percentile per-packet one-way delay: 116.726 ms

Loss rate: 0.80%

-- Flow 2:

Average throughput: 424.42 Mbit/s

95th percentile per-packet one-way delay: 156.784 ms

Loss rate: 0.76%

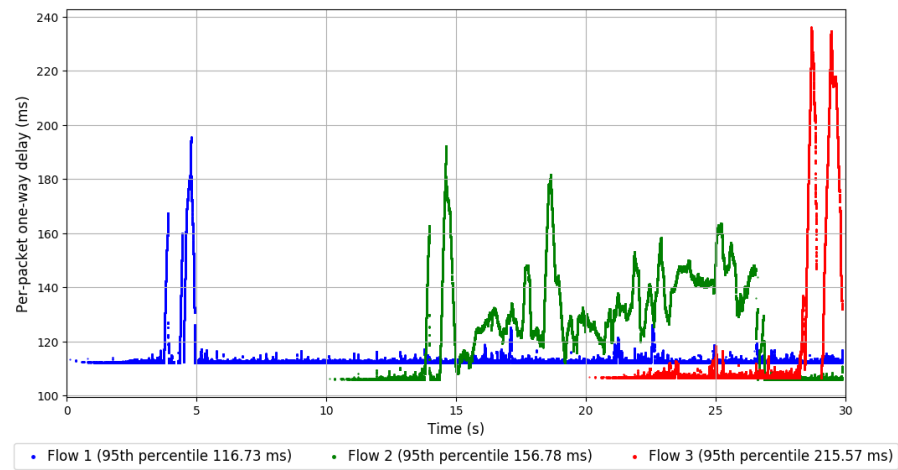
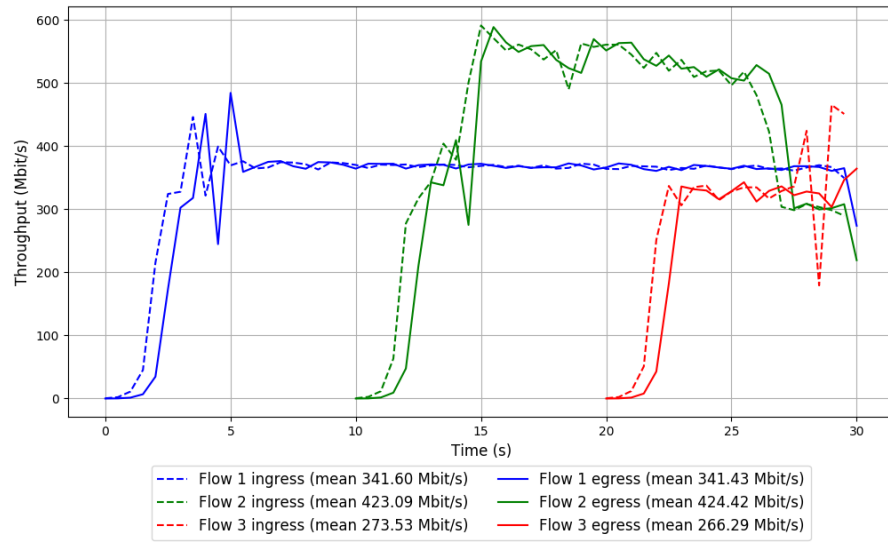
-- Flow 3:

Average throughput: 266.29 Mbit/s

95th percentile per-packet one-way delay: 215.575 ms

Loss rate: 4.77%

# Run 1: Report of TCP Vegas — Data Link

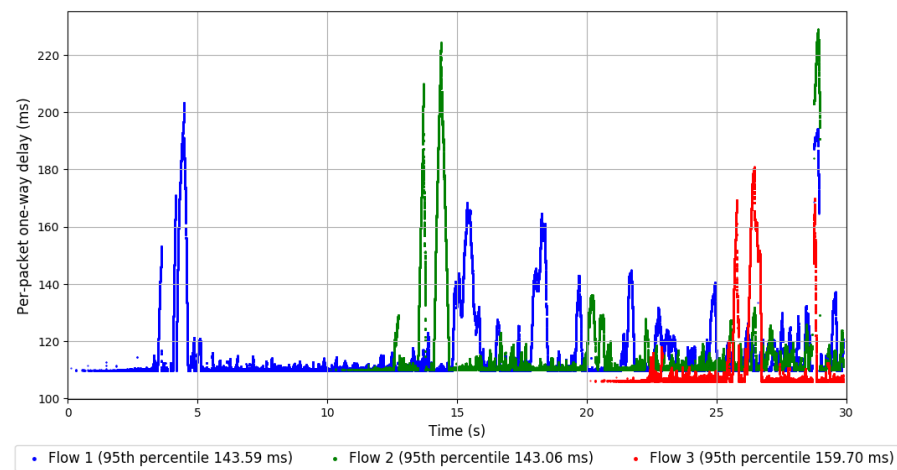
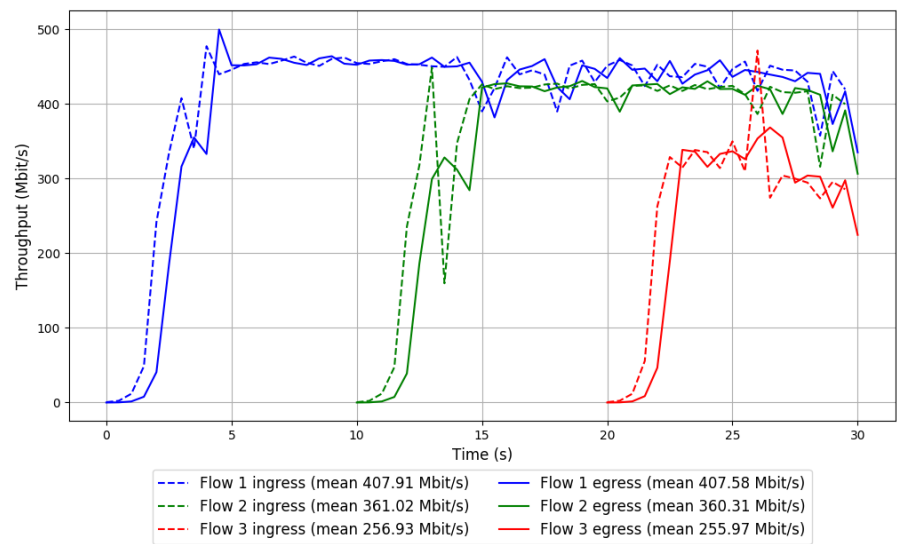


Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 04:07:16  
End at: 2019-11-24 04:07:46  
Local clock offset: -0.049 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-11-24 09:49:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 730.67 Mbit/s  
95th percentile per-packet one-way delay: 148.643 ms  
Loss rate: 1.17%  
-- Flow 1:  
Average throughput: 407.58 Mbit/s  
95th percentile per-packet one-way delay: 143.585 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 360.31 Mbit/s  
95th percentile per-packet one-way delay: 143.055 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 255.97 Mbit/s  
95th percentile per-packet one-way delay: 159.696 ms  
Loss rate: 2.52%

Run 2: Report of TCP Vegas — Data Link

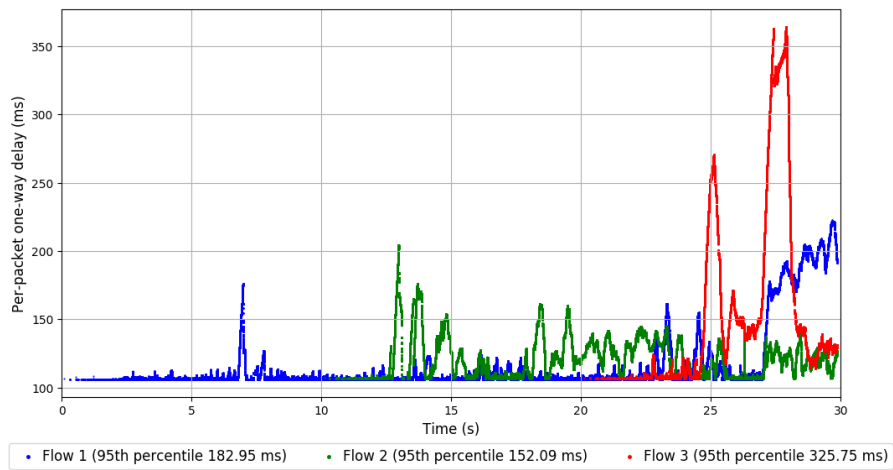
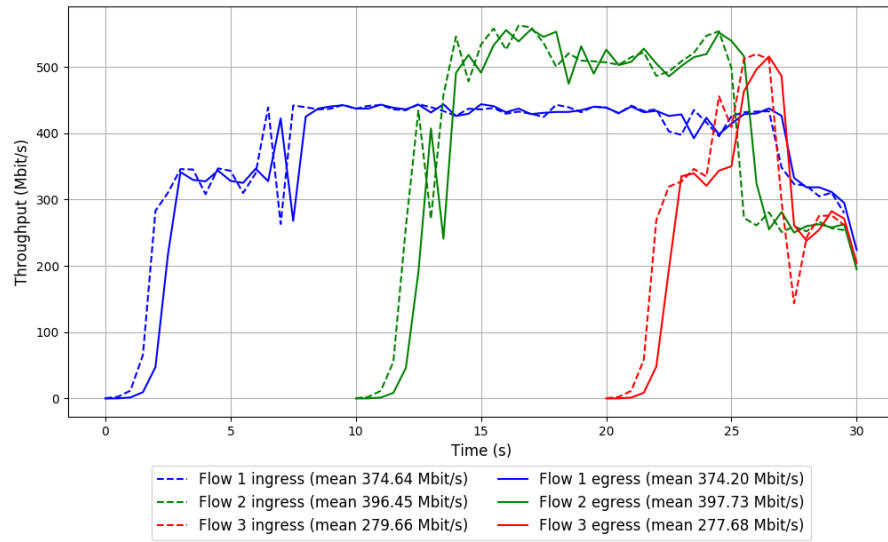


Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 04:49:54  
End at: 2019-11-24 04:50:24  
Local clock offset: -0.092 ms  
Remote clock offset: -0.034 ms

# Below is generated by plot.py at 2019-11-24 09:51:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 729.19 Mbit/s  
95th percentile per-packet one-way delay: 183.058 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 374.20 Mbit/s  
95th percentile per-packet one-way delay: 182.951 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 397.73 Mbit/s  
95th percentile per-packet one-way delay: 152.089 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 277.68 Mbit/s  
95th percentile per-packet one-way delay: 325.745 ms  
Loss rate: 2.83%

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

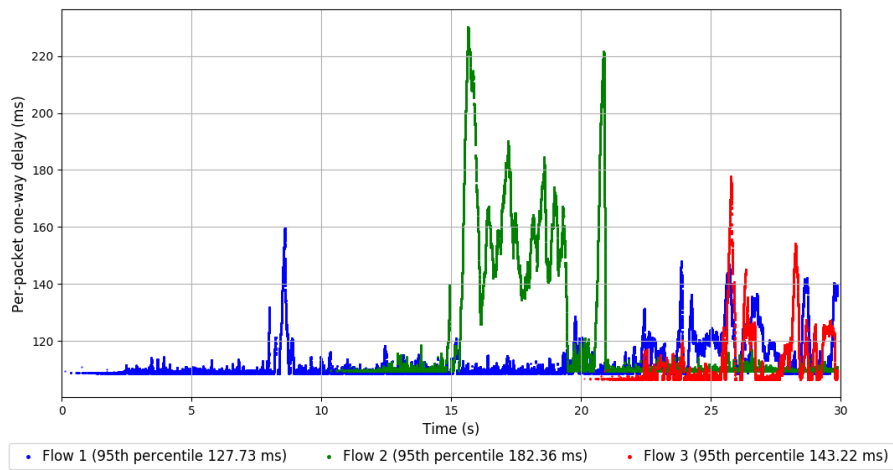
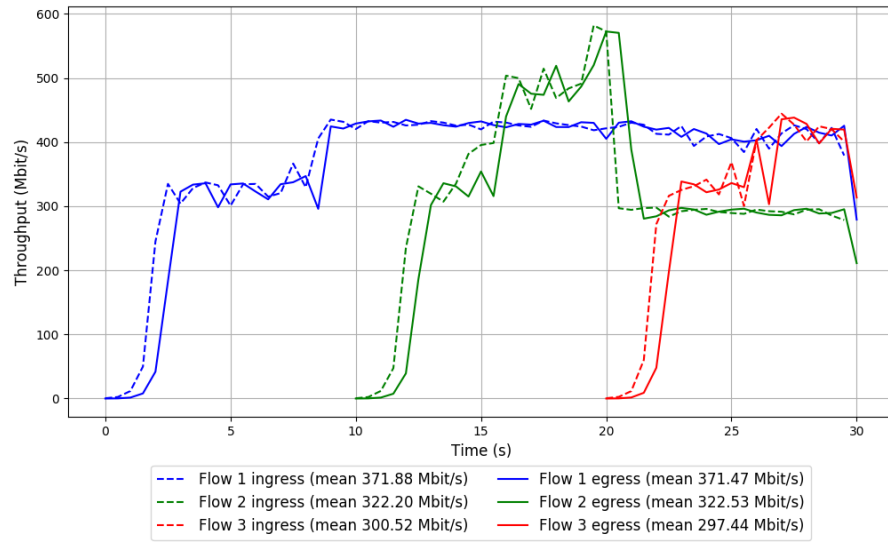


Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 05:32:41  
End at: 2019-11-24 05:33:11  
Local clock offset: -0.1 ms  
Remote clock offset: -0.091 ms

# Below is generated by plot.py at 2019-11-24 09:51:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 683.09 Mbit/s  
95th percentile per-packet one-way delay: 159.559 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 371.47 Mbit/s  
95th percentile per-packet one-way delay: 127.735 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 322.53 Mbit/s  
95th percentile per-packet one-way delay: 182.359 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 297.44 Mbit/s  
95th percentile per-packet one-way delay: 143.221 ms  
Loss rate: 3.15%

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



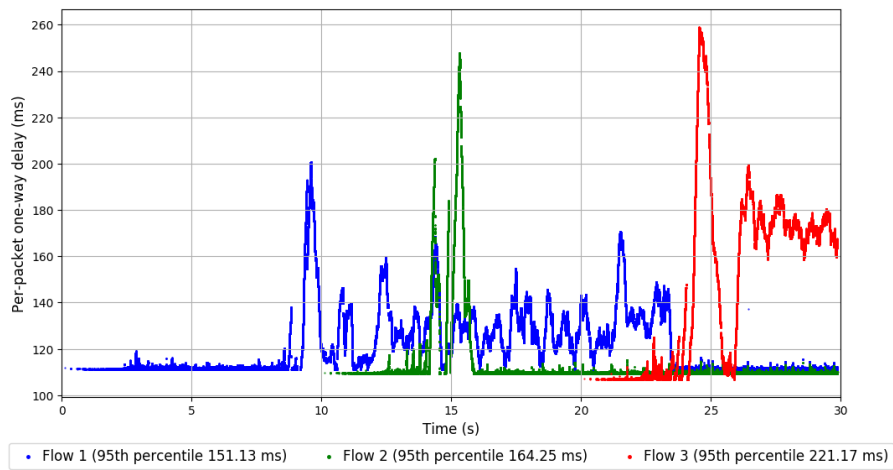
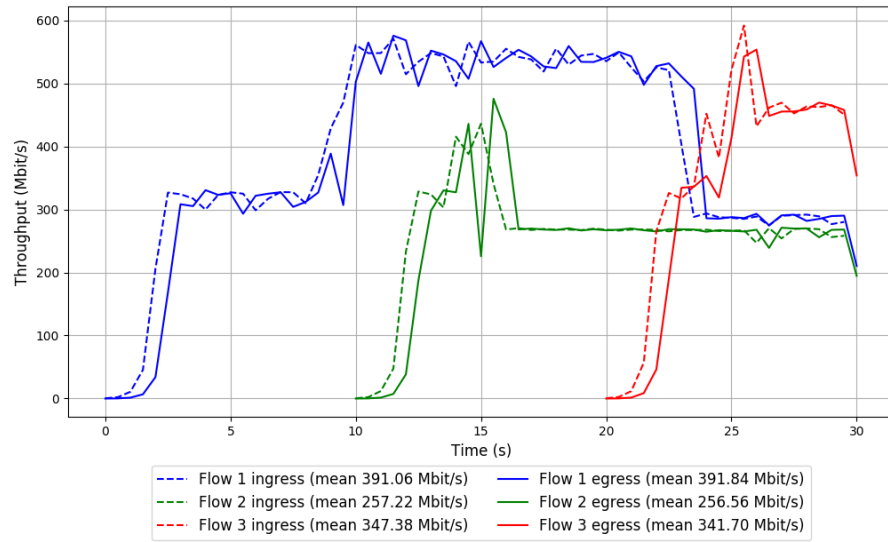


Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 06:14:22  
End at: 2019-11-24 06:14:52  
Local clock offset: -0.098 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-11-24 09:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 674.04 Mbit/s  
95th percentile per-packet one-way delay: 177.766 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 391.84 Mbit/s  
95th percentile per-packet one-way delay: 151.134 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 256.56 Mbit/s  
95th percentile per-packet one-way delay: 164.246 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 341.70 Mbit/s  
95th percentile per-packet one-way delay: 221.169 ms  
Loss rate: 3.74%

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



Run 1: Statistics of Verus

Start at: 2019-11-24 03:26:27

End at: 2019-11-24 03:26:58

Local clock offset: -0.042 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-11-24 09:52:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 191.24 Mbit/s

95th percentile per-packet one-way delay: 216.487 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 128.64 Mbit/s

95th percentile per-packet one-way delay: 224.866 ms

Loss rate: 1.88%

-- Flow 2:

Average throughput: 52.30 Mbit/s

95th percentile per-packet one-way delay: 121.488 ms

Loss rate: 0.00%

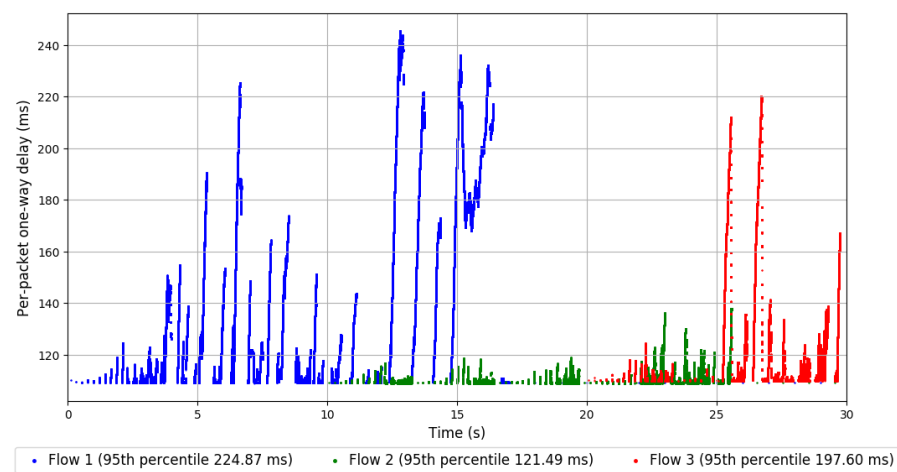
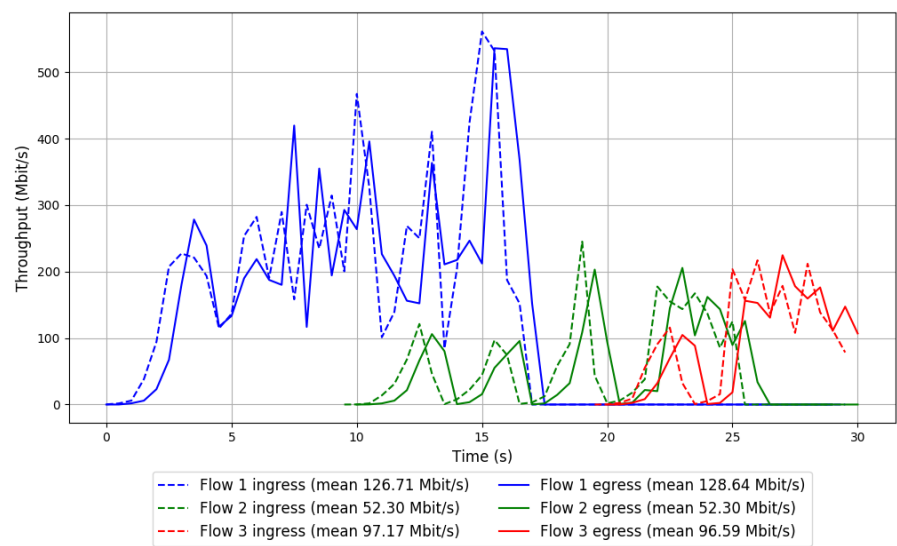
-- Flow 3:

Average throughput: 96.59 Mbit/s

95th percentile per-packet one-way delay: 197.604 ms

Loss rate: 0.00%

Run 1: Report of Verus — Data Link

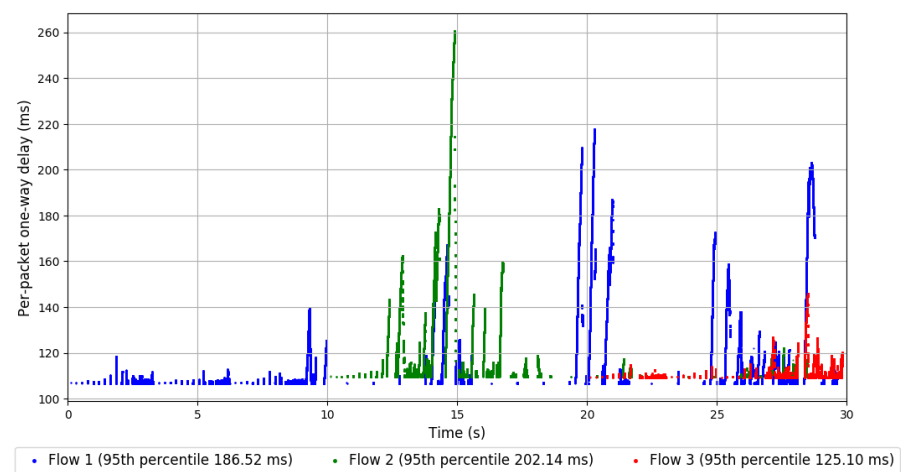
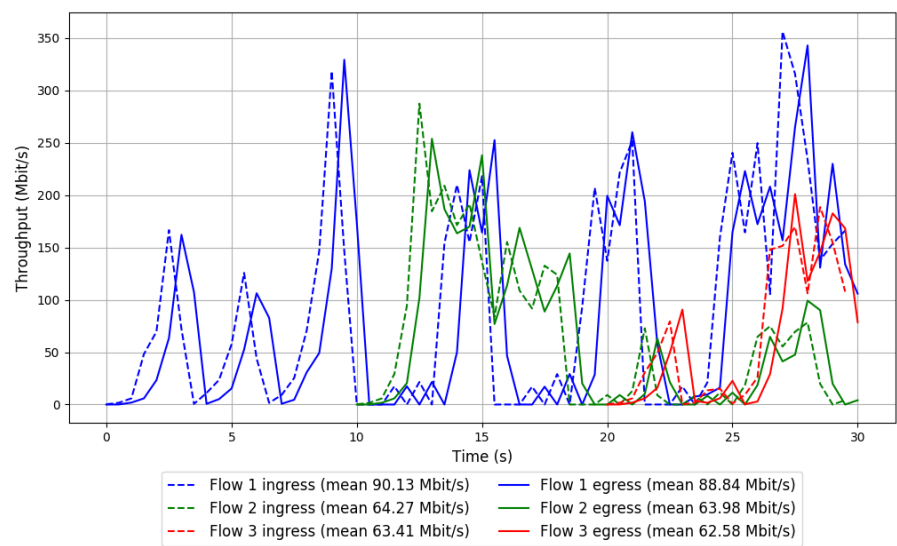


Run 2: Statistics of Verus

Start at: 2019-11-24 04:09:15  
End at: 2019-11-24 04:09:45  
Local clock offset: -0.09 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-11-24 09:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 150.79 Mbit/s  
95th percentile per-packet one-way delay: 183.054 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 88.84 Mbit/s  
95th percentile per-packet one-way delay: 186.517 ms  
Loss rate: 2.87%  
-- Flow 2:  
Average throughput: 63.98 Mbit/s  
95th percentile per-packet one-way delay: 202.136 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 62.58 Mbit/s  
95th percentile per-packet one-way delay: 125.096 ms  
Loss rate: 3.57%

Run 2: Report of Verus — Data Link

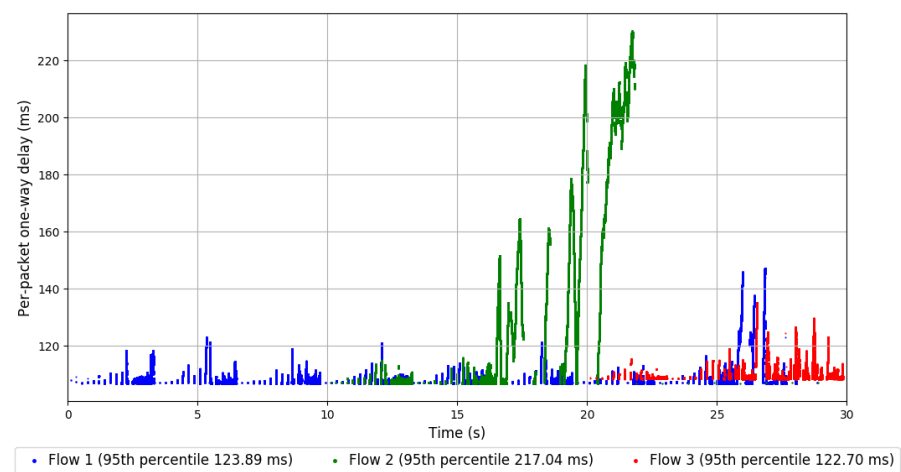
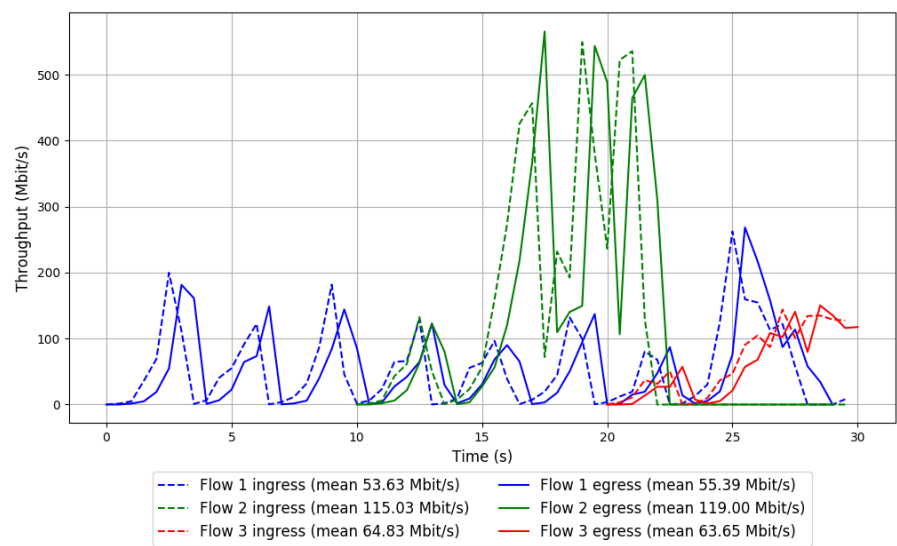


Run 3: Statistics of Verus

Start at: 2019-11-24 04:51:53  
End at: 2019-11-24 04:52:23  
Local clock offset: -0.026 ms  
Remote clock offset: -0.033 ms

# Below is generated by plot.py at 2019-11-24 09:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 149.48 Mbit/s  
95th percentile per-packet one-way delay: 206.484 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 55.39 Mbit/s  
95th percentile per-packet one-way delay: 123.887 ms  
Loss rate: 0.25%  
-- Flow 2:  
Average throughput: 119.00 Mbit/s  
95th percentile per-packet one-way delay: 217.037 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 63.65 Mbit/s  
95th percentile per-packet one-way delay: 122.704 ms  
Loss rate: 3.46%

Run 3: Report of Verus — Data Link



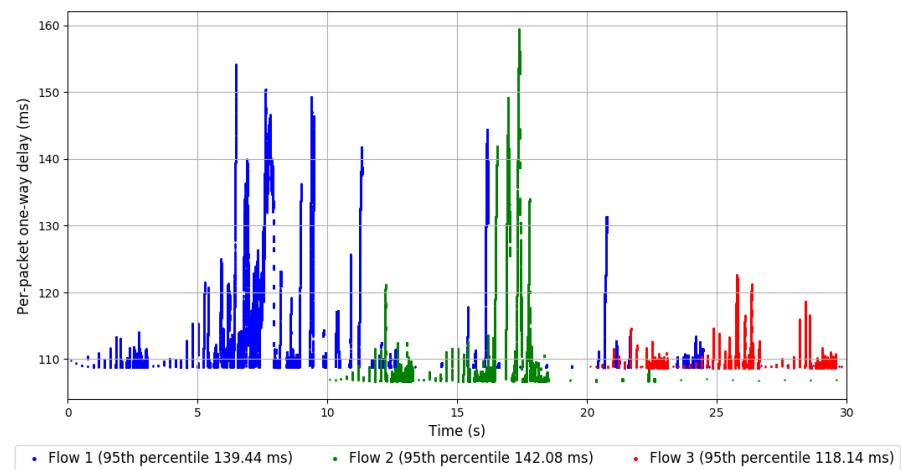
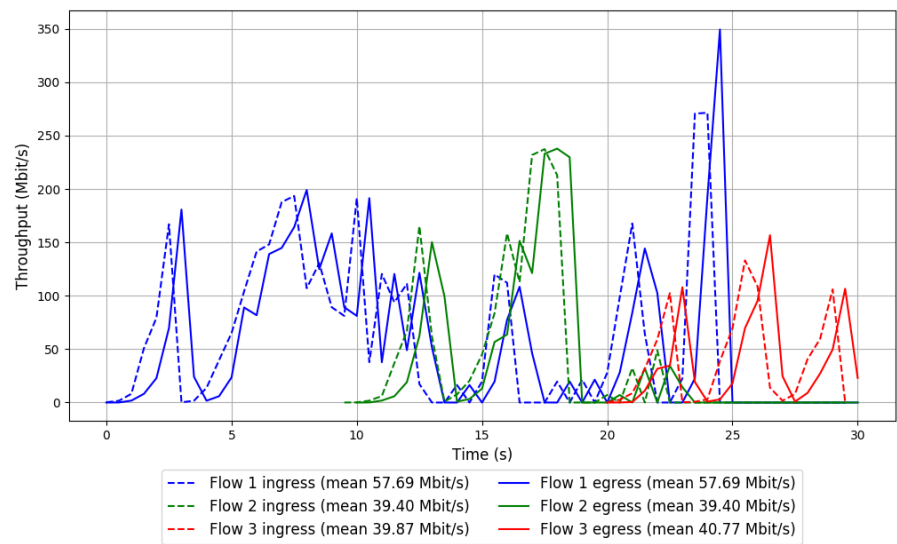


Run 4: Statistics of Verus

Start at: 2019-11-24 05:34:37  
End at: 2019-11-24 05:35:07  
Local clock offset: -0.142 ms  
Remote clock offset: -0.077 ms

# Below is generated by plot.py at 2019-11-24 09:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.69 Mbit/s  
95th percentile per-packet one-way delay: 139.030 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 57.69 Mbit/s  
95th percentile per-packet one-way delay: 139.440 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 142.076 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.77 Mbit/s  
95th percentile per-packet one-way delay: 118.143 ms  
Loss rate: 0.02%

Run 4: Report of Verus — Data Link

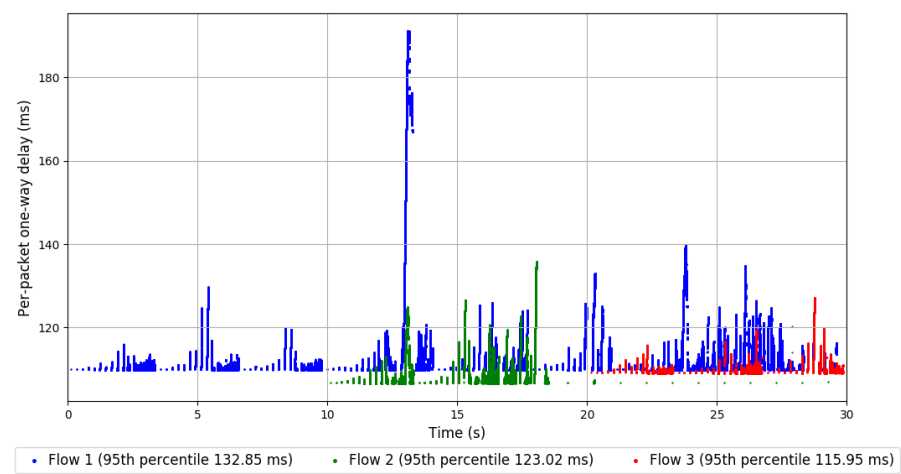
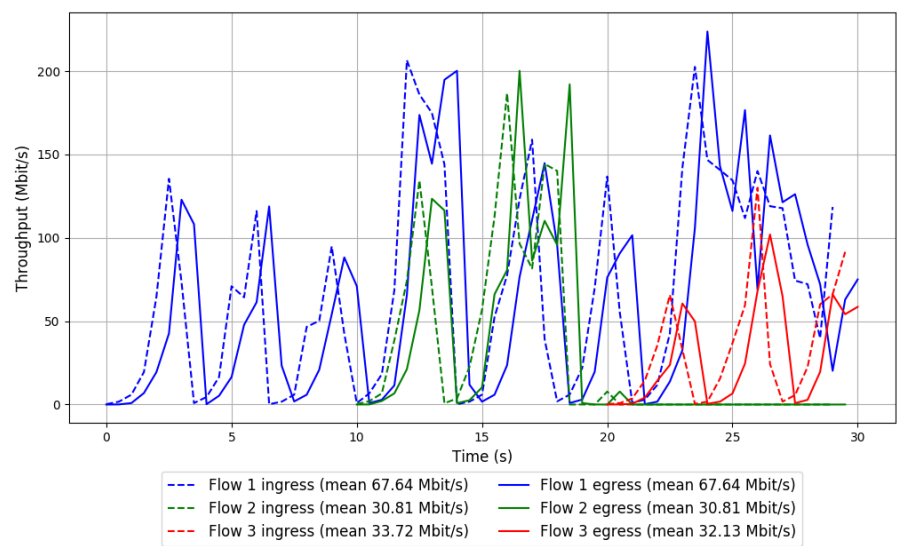


Run 5: Statistics of Verus

Start at: 2019-11-24 06:16:18  
End at: 2019-11-24 06:16:48  
Local clock offset: -0.201 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-11-24 09:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.43 Mbit/s  
95th percentile per-packet one-way delay: 129.482 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 67.64 Mbit/s  
95th percentile per-packet one-way delay: 132.853 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 30.81 Mbit/s  
95th percentile per-packet one-way delay: 123.020 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 32.13 Mbit/s  
95th percentile per-packet one-way delay: 115.955 ms  
Loss rate: 6.83%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 03:56:44

End at: 2019-11-24 03:57:14

Local clock offset: -0.063 ms

Remote clock offset: -0.15 ms

# Below is generated by plot.py at 2019-11-24 09:53:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 364.65 Mbit/s

95th percentile per-packet one-way delay: 112.403 ms

Loss rate: 1.36%

-- Flow 1:

Average throughput: 204.49 Mbit/s

95th percentile per-packet one-way delay: 110.848 ms

Loss rate: 0.86%

-- Flow 2:

Average throughput: 173.62 Mbit/s

95th percentile per-packet one-way delay: 109.552 ms

Loss rate: 1.14%

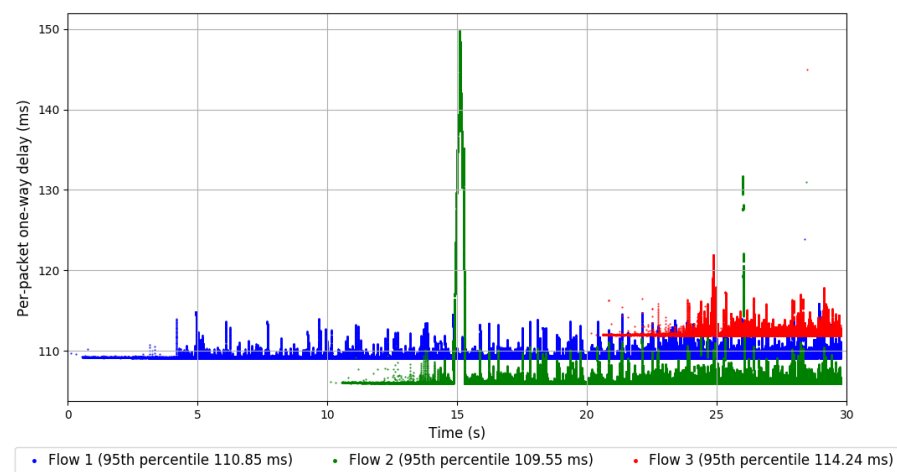
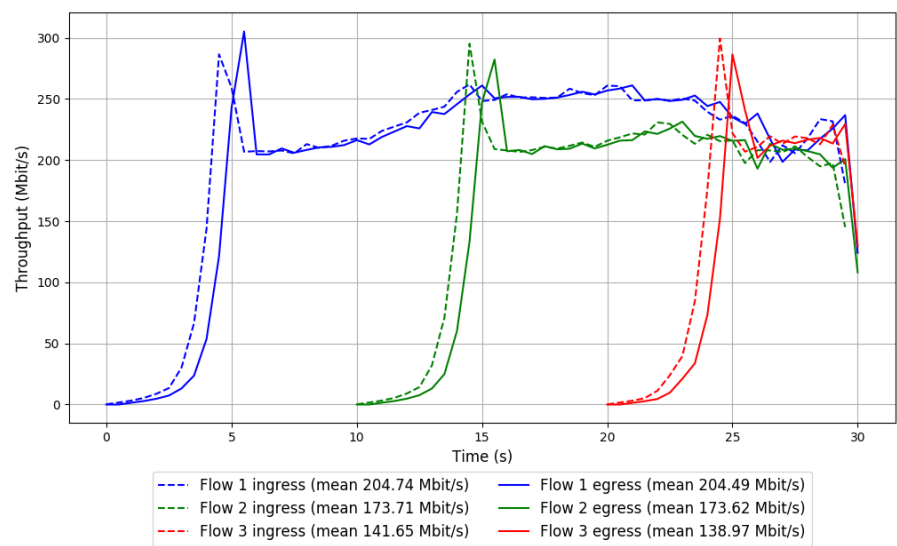
-- Flow 3:

Average throughput: 138.97 Mbit/s

95th percentile per-packet one-way delay: 114.237 ms

Loss rate: 4.10%

Run 1: Report of PCC-Vivace — Data Link

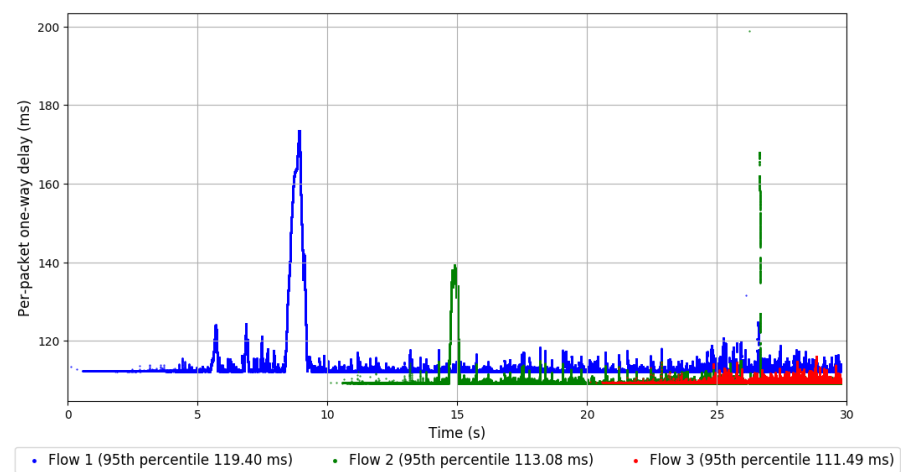
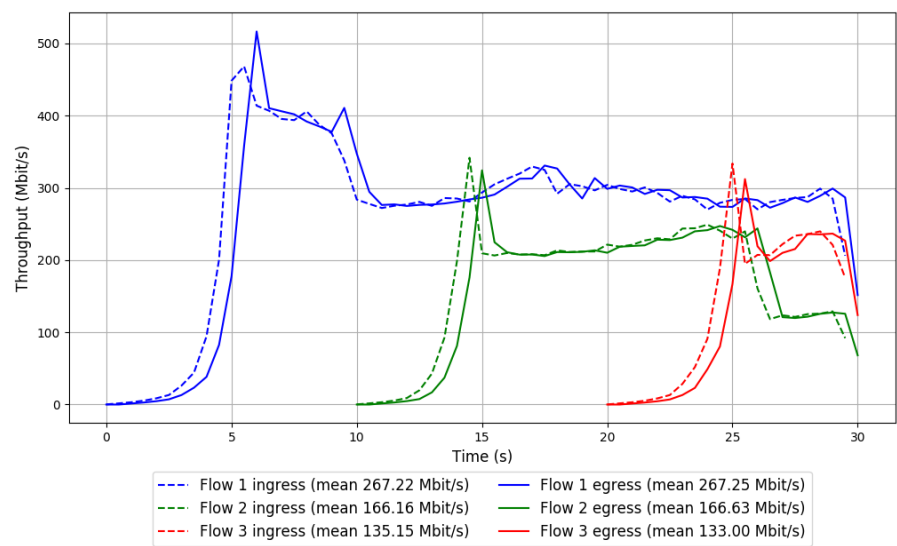


Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 04:39:14  
End at: 2019-11-24 04:39:44  
Local clock offset: 0.015 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-11-24 09:54:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 420.87 Mbit/s  
95th percentile per-packet one-way delay: 117.751 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 267.25 Mbit/s  
95th percentile per-packet one-way delay: 119.402 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 166.63 Mbit/s  
95th percentile per-packet one-way delay: 113.078 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 133.00 Mbit/s  
95th percentile per-packet one-way delay: 111.491 ms  
Loss rate: 3.76%

Run 2: Report of PCC-Vivace — Data Link



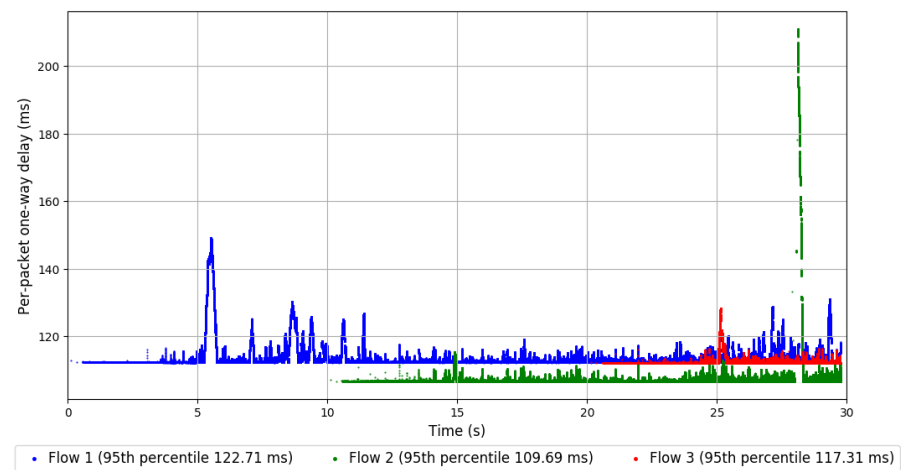
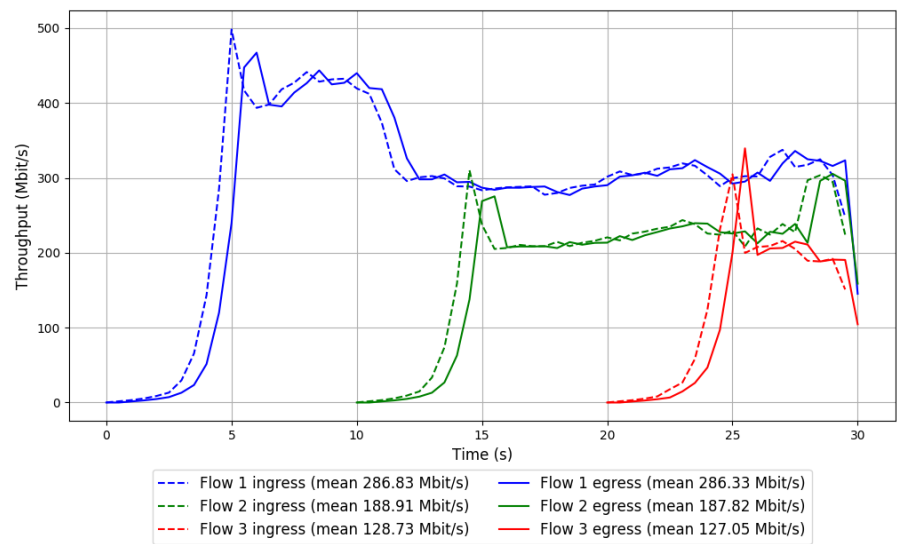


Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 05:21:53  
End at: 2019-11-24 05:22:23  
Local clock offset: -0.18 ms  
Remote clock offset: -0.063 ms

# Below is generated by plot.py at 2019-11-24 09:54:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 452.09 Mbit/s  
95th percentile per-packet one-way delay: 120.361 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 286.33 Mbit/s  
95th percentile per-packet one-way delay: 122.713 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 187.82 Mbit/s  
95th percentile per-packet one-way delay: 109.690 ms  
Loss rate: 1.67%  
-- Flow 3:  
Average throughput: 127.05 Mbit/s  
95th percentile per-packet one-way delay: 117.313 ms  
Loss rate: 3.55%

Run 3: Report of PCC-Vivace — Data Link

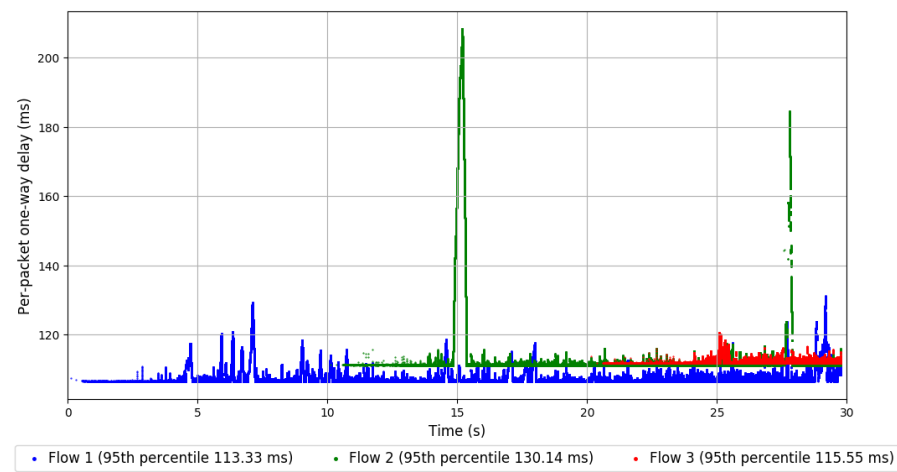
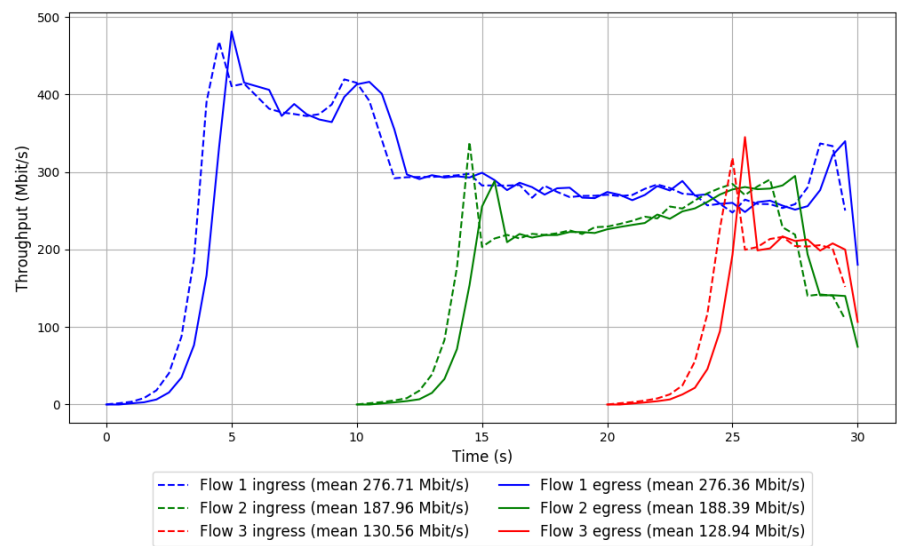


Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 06:03:49  
End at: 2019-11-24 06:04:19  
Local clock offset: -0.119 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-11-24 09:55:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 442.99 Mbit/s  
95th percentile per-packet one-way delay: 114.773 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 276.36 Mbit/s  
95th percentile per-packet one-way delay: 113.335 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 188.39 Mbit/s  
95th percentile per-packet one-way delay: 130.140 ms  
Loss rate: 0.89%  
-- Flow 3:  
Average throughput: 128.94 Mbit/s  
95th percentile per-packet one-way delay: 115.550 ms  
Loss rate: 3.55%

Run 4: Report of PCC-Vivace — Data Link

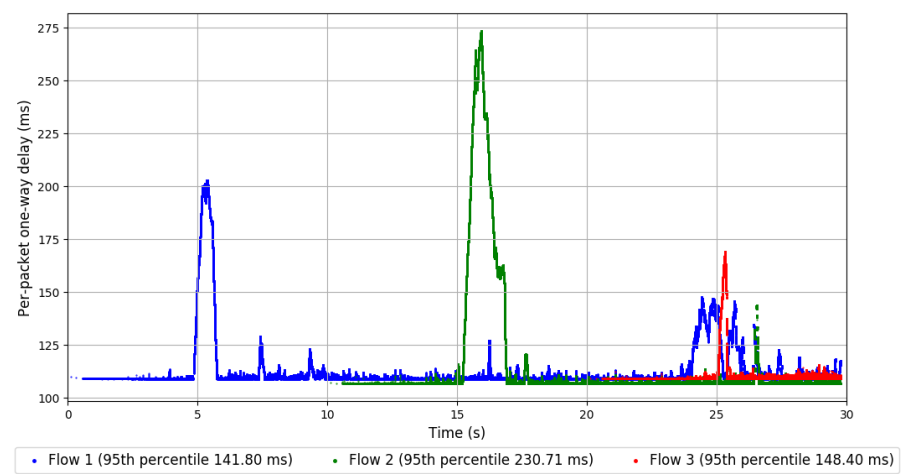
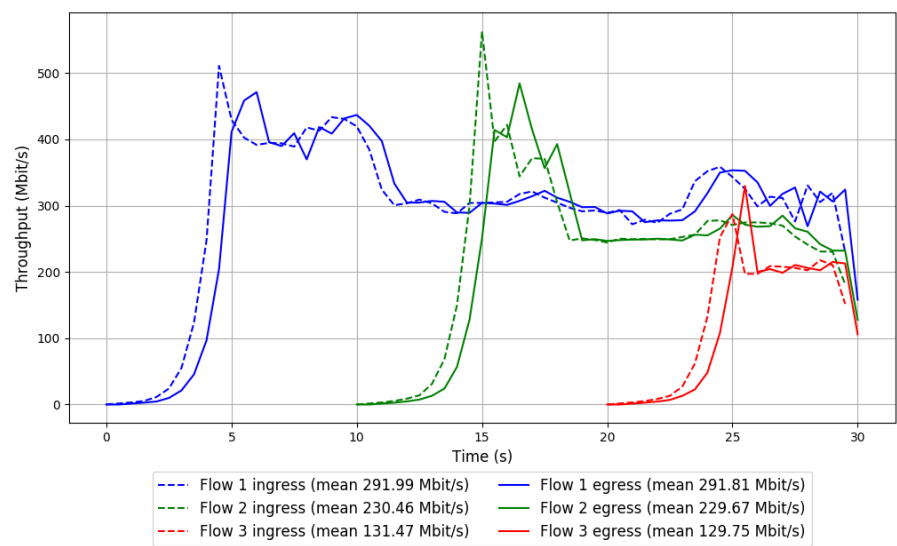


Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 06:46:06  
End at: 2019-11-24 06:46:36  
Local clock offset: 0.035 ms  
Remote clock offset: -0.077 ms

```
# Below is generated by plot.py at 2019-11-24 09:55:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 486.13 Mbit/s
95th percentile per-packet one-way delay: 167.492 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 291.81 Mbit/s
95th percentile per-packet one-way delay: 141.803 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 229.67 Mbit/s
95th percentile per-packet one-way delay: 230.713 ms
Loss rate: 1.44%
-- Flow 3:
Average throughput: 129.75 Mbit/s
95th percentile per-packet one-way delay: 148.403 ms
Loss rate: 3.52%
```

Run 5: Report of PCC-Vivace — Data Link

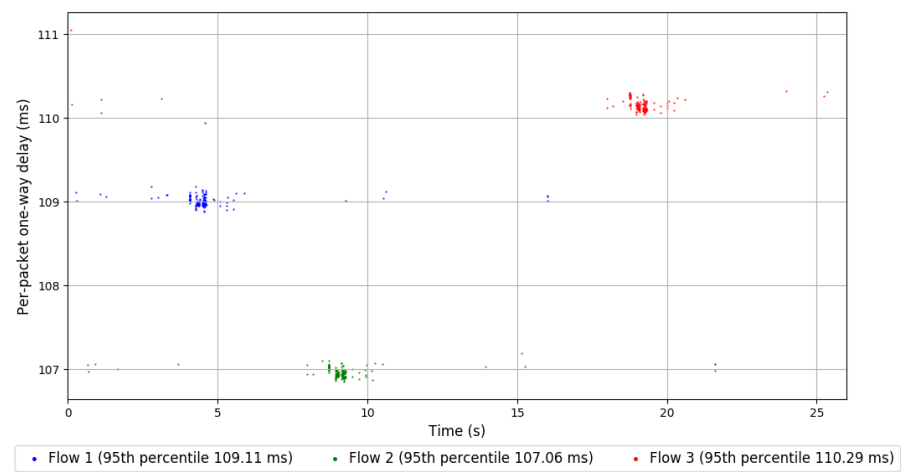
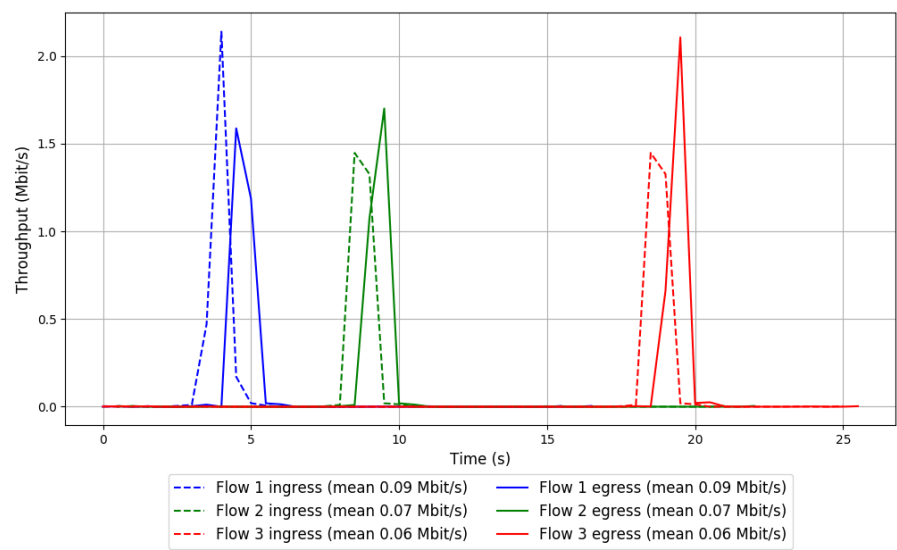


Run 1: Statistics of WebRTC media

Start at: 2019-11-24 03:49:55  
End at: 2019-11-24 03:50:25  
Local clock offset: 0.049 ms  
Remote clock offset: -0.101 ms

# Below is generated by plot.py at 2019-11-24 09:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 110.241 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 109.115 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 107.063 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 110.286 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



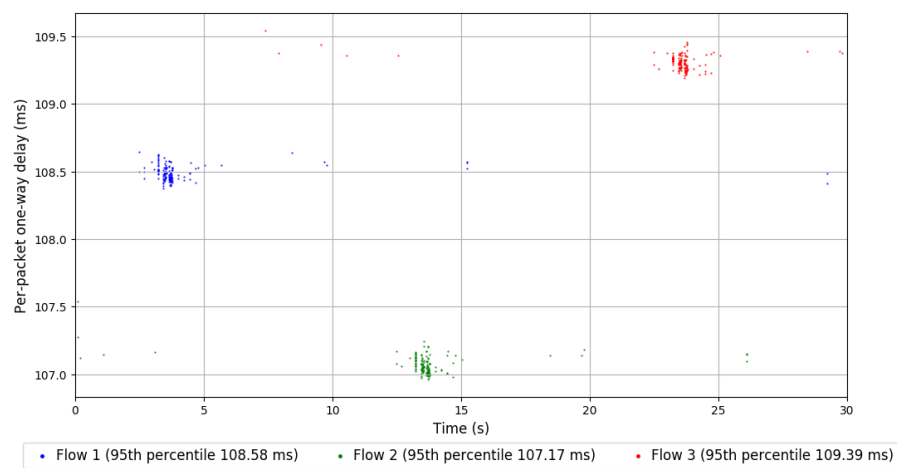
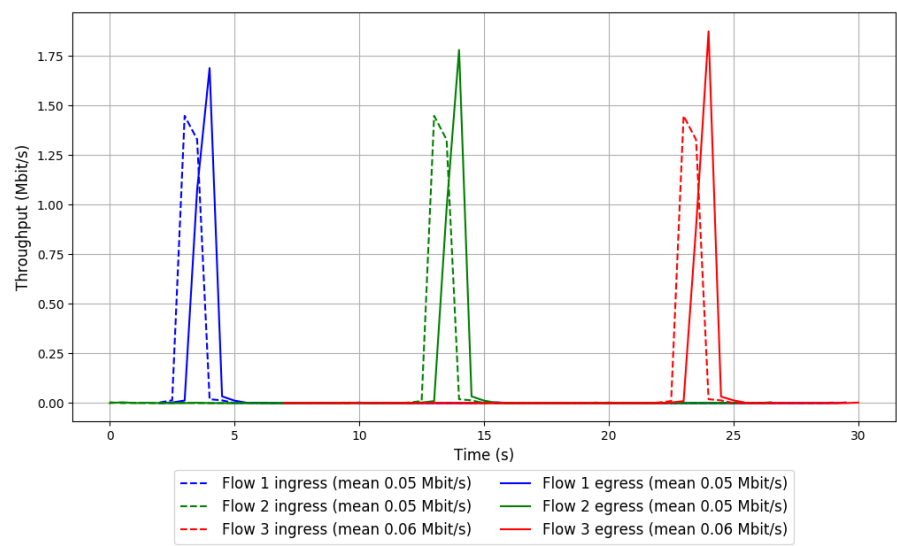


Run 2: Statistics of WebRTC media

Start at: 2019-11-24 04:32:28  
End at: 2019-11-24 04:32:58  
Local clock offset: -0.01 ms  
Remote clock offset: -0.013 ms

# Below is generated by plot.py at 2019-11-24 09:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 109.362 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 108.582 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 107.173 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 109.390 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

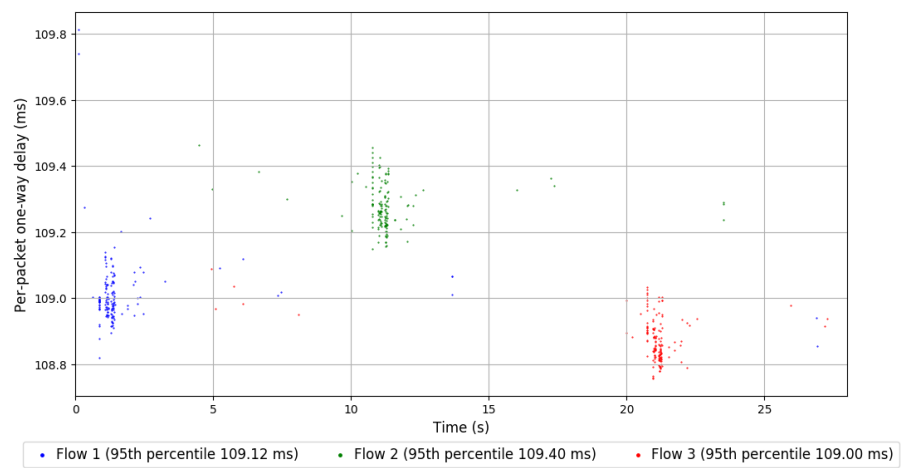
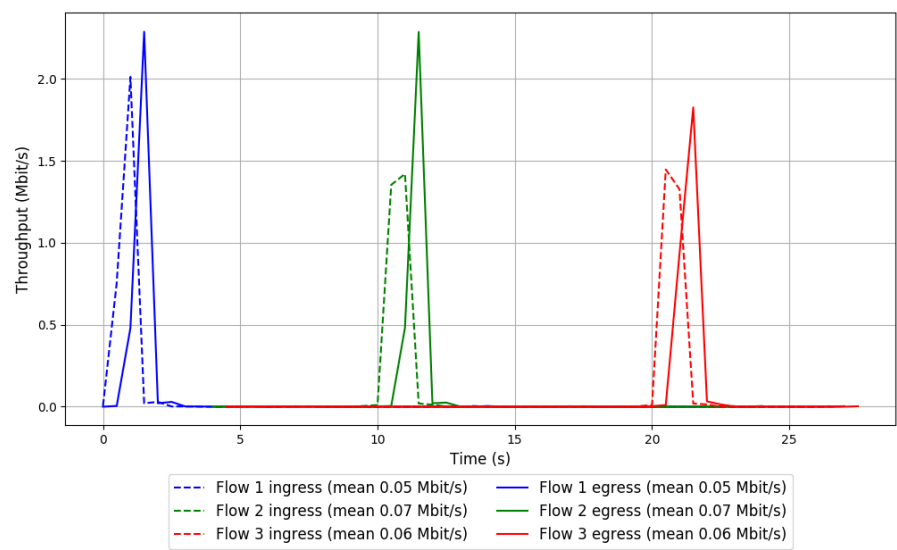


Run 3: Statistics of WebRTC media

Start at: 2019-11-24 05:15:12  
End at: 2019-11-24 05:15:42  
Local clock offset: -0.068 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-11-24 09:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 109.366 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 109.123 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 109.397 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 109.003 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

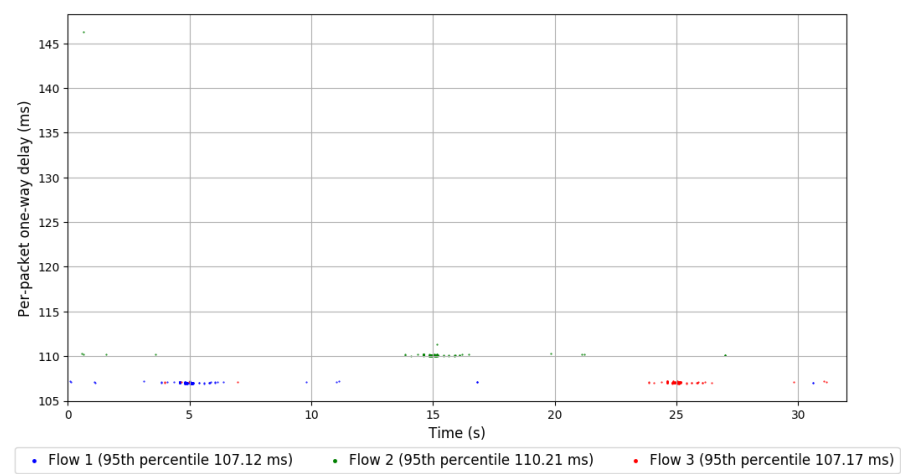
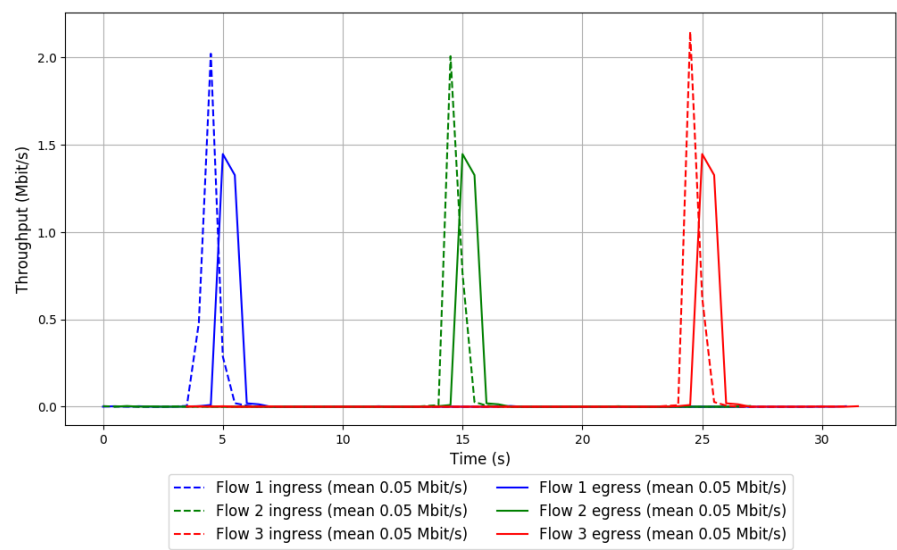


Run 4: Statistics of WebRTC media

Start at: 2019-11-24 05:57:08  
End at: 2019-11-24 05:57:38  
Local clock offset: 0.237 ms  
Remote clock offset: -0.075 ms

# Below is generated by plot.py at 2019-11-24 09:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 110.170 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 107.125 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 110.207 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 107.165 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 06:39:20  
End at: 2019-11-24 06:39:50  
Local clock offset: -0.108 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-11-24 09:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 111.452 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 111.504 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 106.833 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 108.795 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

