

## Pantheon Report

Generated at 2019-09-18 22:11:14 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

Each test lasted for 30 seconds running 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:

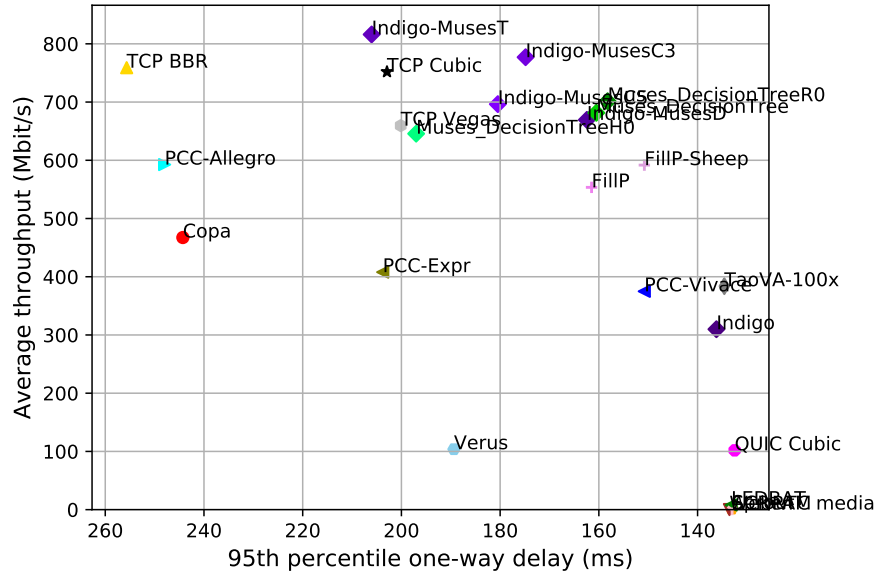
```
Linux 4.15.0-1040-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

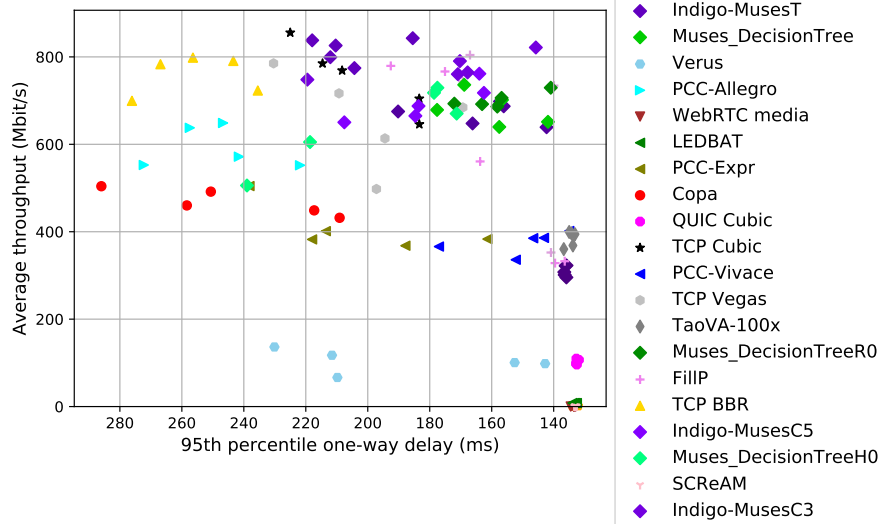
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d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

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

test from GCE London to GCE Sydney, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE London to GCE Sydney, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows



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	429.17	373.09	252.40	258.01	251.00	178.20	3.17	3.07	5.81
Copa	5	240.89	252.63	180.84	240.14	202.10	180.17	1.09	1.57	3.60
TCP Cubic	5	416.83	388.56	236.87	181.15	203.82	162.63	1.09	2.10	4.69
FillP	5	256.13	337.19	228.85	164.88	139.49	137.15	0.75	1.10	3.66
FillP-Sheep	5	300.47	325.77	232.06	169.79	137.75	136.69	0.96	1.22	3.16
Indigo	5	163.17	152.66	140.65	135.84	136.08	138.58	0.86	1.38	3.23
Indigo-MusesC3	5	473.32	367.56	269.10	176.23	151.04	210.41	0.66	1.22	5.17
Indigo-MusesC5	5	427.93	360.62	154.19	187.14	153.75	136.79	0.45	1.36	7.63
Indigo-MusesD	5	405.99	354.60	146.84	166.82	150.97	134.34	0.57	1.55	5.37
Indigo-MusesT	5	506.08	423.56	156.01	215.53	165.51	135.23	1.34	1.38	5.51
LEDBAT	5	5.26	3.45	1.67	133.22	132.95	132.79	1.78	2.69	5.42
Muses_DecisionTree	5	410.76	326.40	178.93	163.72	142.89	162.83	0.90	1.33	4.95
Muses_DecisionTreeH0	5	369.55	318.21	216.23	199.80	187.11	154.08	2.05	1.83	4.82
Muses_DecisionTreeR0	5	424.54	332.39	185.93	163.09	151.67	137.01	0.91	1.35	4.62
PCC-Allegro	5	338.66	273.09	226.61	254.42	196.13	246.39	3.44	2.30	5.74
PCC-Expr	5	232.89	192.65	146.55	209.74	155.09	174.97	1.78	1.66	4.17
QUIC Cubic	5	54.38	51.57	38.46	132.05	132.29	131.84	1.30	1.68	3.99
SCReAM	5	0.15	0.15	0.16	133.03	132.52	132.13	0.88	1.39	2.38
Sprout	5	0.70	0.61	0.56	133.03	132.99	133.00	0.88	1.52	3.04
TaoVA-100x	5	204.04	194.33	156.20	133.80	135.28	134.63	0.95	1.44	4.25
TCP Vegas	5	376.28	326.14	204.93	176.00	200.47	209.08	1.03	1.60	3.91
Verus	5	55.20	54.01	42.82	164.26	179.24	165.33	0.66	1.75	3.04
PCC-Vivace	5	232.94	167.81	95.49	174.15	144.69	144.55	1.71	1.83	4.47
WebRTC media	5	0.05	0.05	0.05	133.53	132.86	133.55	0.00	0.00	0.00

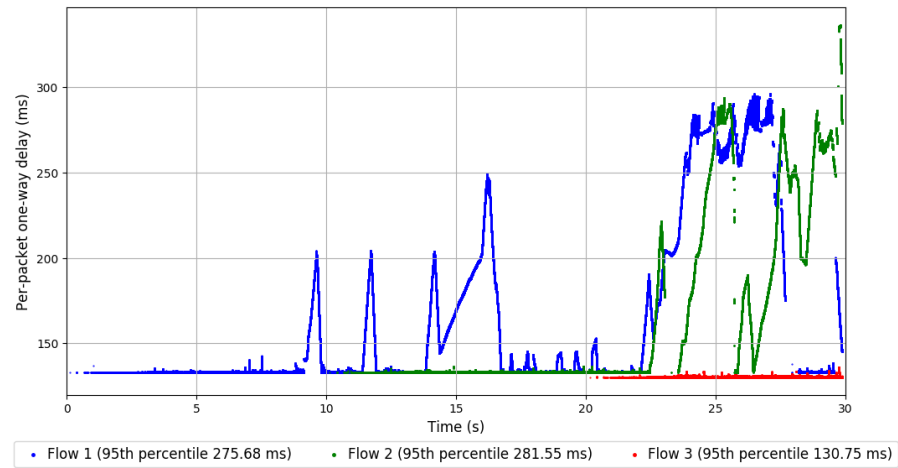
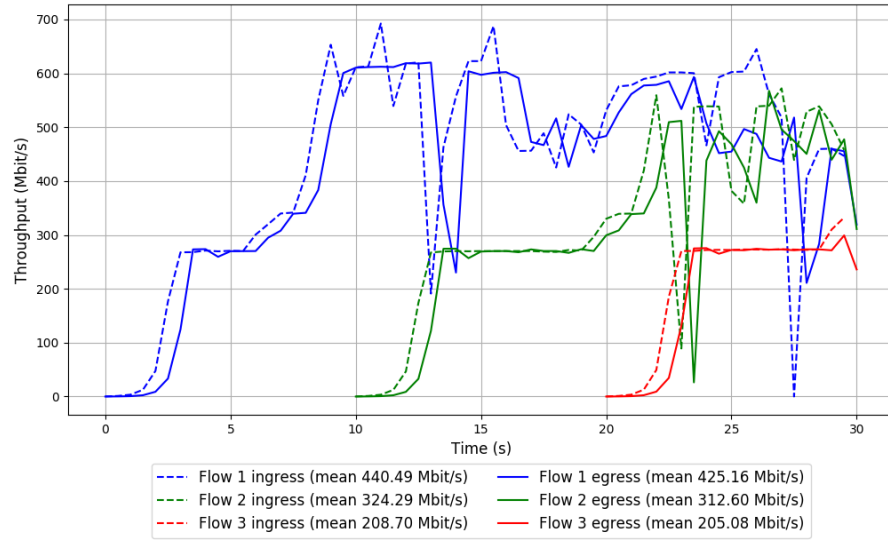


Run 1: Statistics of TCP BBR

Start at: 2019-09-18 16:09:07  
End at: 2019-09-18 16:09:37  
Local clock offset: -0.084 ms  
Remote clock offset: -0.337 ms

# Below is generated by plot.py at 2019-09-18 19:53:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 699.51 Mbit/s  
95th percentile per-packet one-way delay: 276.110 ms  
Loss rate: 4.49%  
-- Flow 1:  
Average throughput: 425.16 Mbit/s  
95th percentile per-packet one-way delay: 275.681 ms  
Loss rate: 4.33%  
-- Flow 2:  
Average throughput: 312.60 Mbit/s  
95th percentile per-packet one-way delay: 281.551 ms  
Loss rate: 4.88%  
-- Flow 3:  
Average throughput: 205.08 Mbit/s  
95th percentile per-packet one-way delay: 130.746 ms  
Loss rate: 4.30%

# Run 1: Report of TCP BBR — Data Link

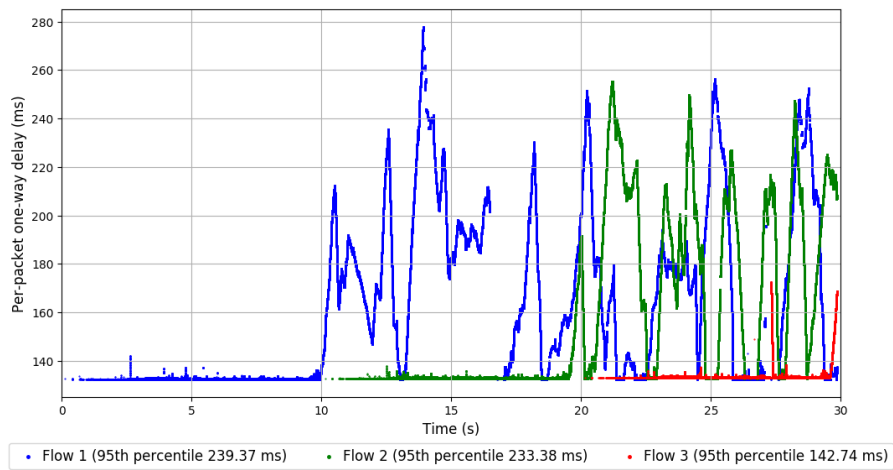
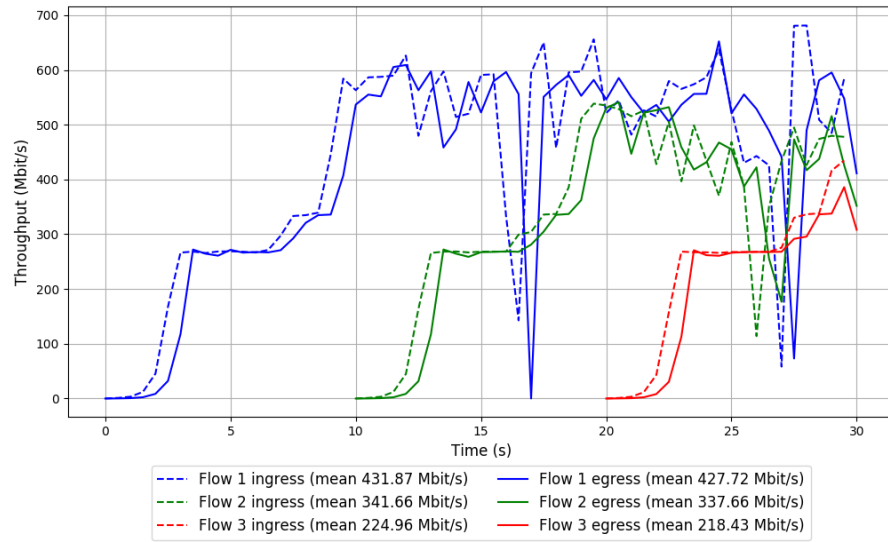


Run 2: Statistics of TCP BBR

Start at: 2019-09-18 16:53:24  
End at: 2019-09-18 16:53:54  
Local clock offset: -0.089 ms  
Remote clock offset: -0.191 ms

# Below is generated by plot.py at 2019-09-18 19:54:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 723.09 Mbit/s  
95th percentile per-packet one-way delay: 235.490 ms  
Loss rate: 2.41%  
-- Flow 1:  
Average throughput: 427.72 Mbit/s  
95th percentile per-packet one-way delay: 239.366 ms  
Loss rate: 1.84%  
-- Flow 2:  
Average throughput: 337.66 Mbit/s  
95th percentile per-packet one-way delay: 233.382 ms  
Loss rate: 2.49%  
-- Flow 3:  
Average throughput: 218.43 Mbit/s  
95th percentile per-packet one-way delay: 142.740 ms  
Loss rate: 5.50%

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

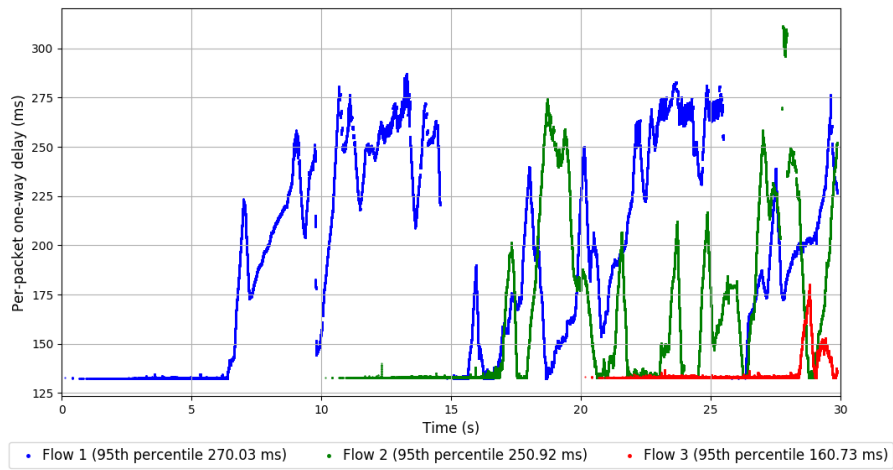
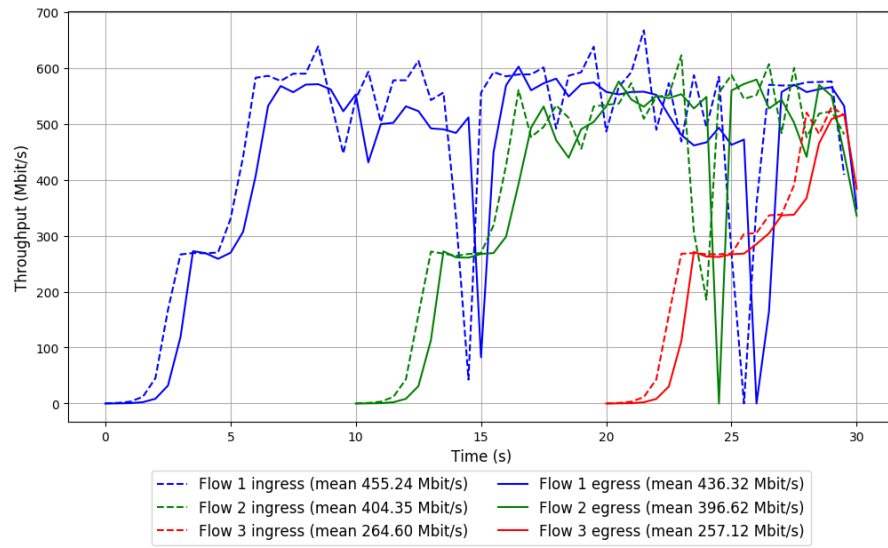


Run 3: Statistics of TCP BBR

Start at: 2019-09-18 17:37:30  
End at: 2019-09-18 17:38:00  
Local clock offset: -0.045 ms  
Remote clock offset: -0.157 ms

# Below is generated by plot.py at 2019-09-18 19:55:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 783.30 Mbit/s  
95th percentile per-packet one-way delay: 266.909 ms  
Loss rate: 4.46%  
-- Flow 1:  
Average throughput: 436.32 Mbit/s  
95th percentile per-packet one-way delay: 270.026 ms  
Loss rate: 5.01%  
-- Flow 2:  
Average throughput: 396.62 Mbit/s  
95th percentile per-packet one-way delay: 250.919 ms  
Loss rate: 3.22%  
-- Flow 3:  
Average throughput: 257.12 Mbit/s  
95th percentile per-packet one-way delay: 160.731 ms  
Loss rate: 5.43%

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

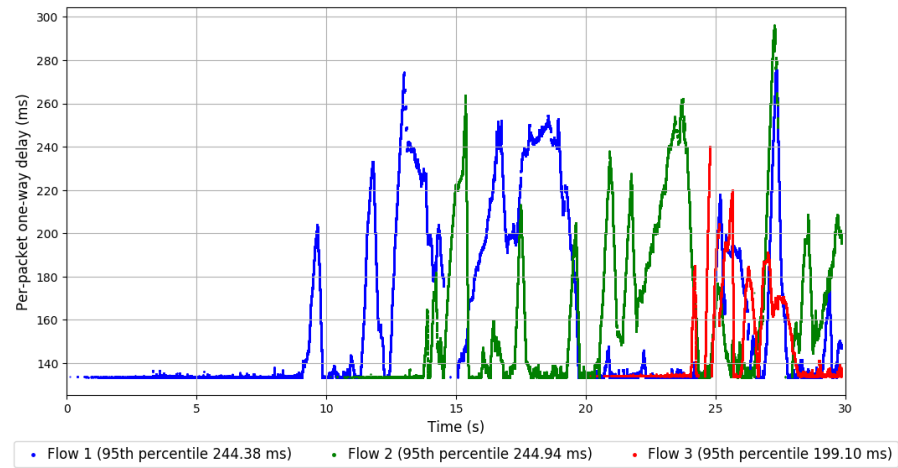
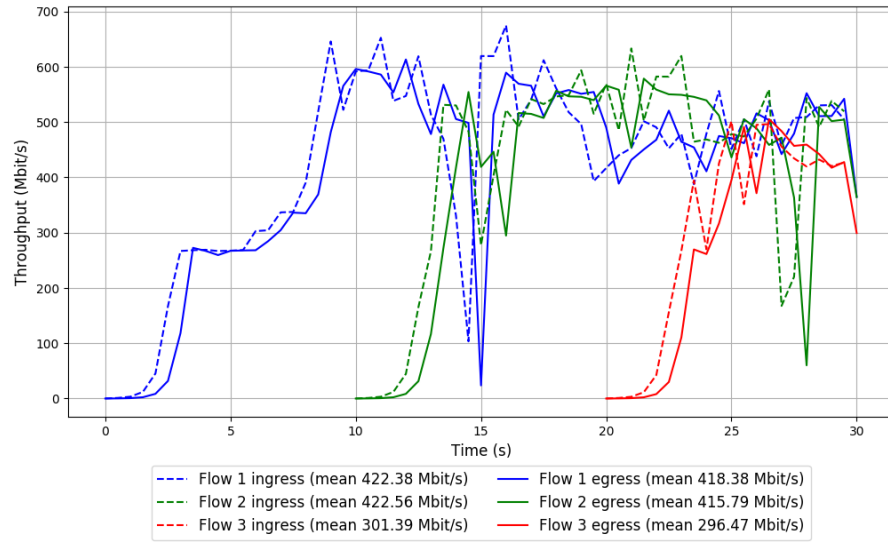


Run 4: Statistics of TCP BBR

Start at: 2019-09-18 18:21:50  
End at: 2019-09-18 18:22:20  
Local clock offset: 0.141 ms  
Remote clock offset: -1.173 ms

# Below is generated by plot.py at 2019-09-18 19:55:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 790.86 Mbit/s  
95th percentile per-packet one-way delay: 243.394 ms  
Loss rate: 2.51%  
-- Flow 1:  
Average throughput: 418.38 Mbit/s  
95th percentile per-packet one-way delay: 244.380 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 415.79 Mbit/s  
95th percentile per-packet one-way delay: 244.936 ms  
Loss rate: 2.91%  
-- Flow 3:  
Average throughput: 296.47 Mbit/s  
95th percentile per-packet one-way delay: 199.100 ms  
Loss rate: 4.27%

# Run 4: Report of TCP BBR — Data Link





Run 5: Statistics of TCP BBR

Start at: 2019-09-18 19:05:55

End at: 2019-09-18 19:06:25

Local clock offset: 0.34 ms

Remote clock offset: 0.824 ms

# Below is generated by plot.py at 2019-09-18 19:55:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 798.32 Mbit/s

95th percentile per-packet one-way delay: 256.424 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 438.25 Mbit/s

95th percentile per-packet one-way delay: 260.600 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 402.77 Mbit/s

95th percentile per-packet one-way delay: 244.203 ms

Loss rate: 1.87%

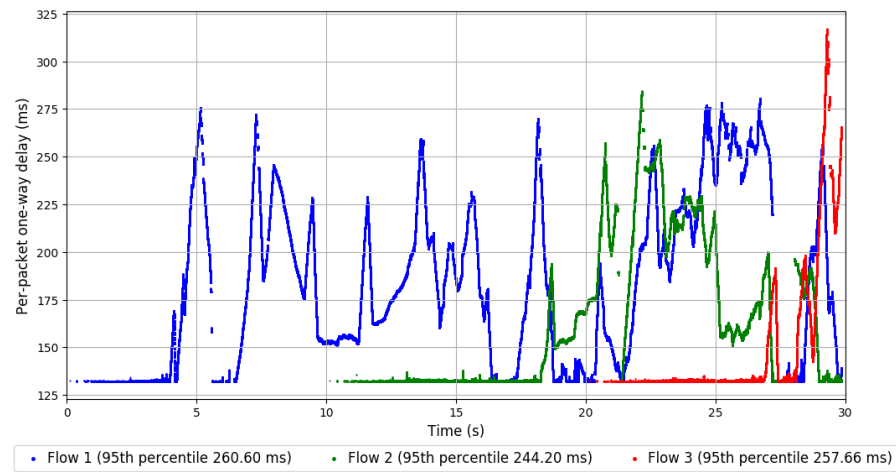
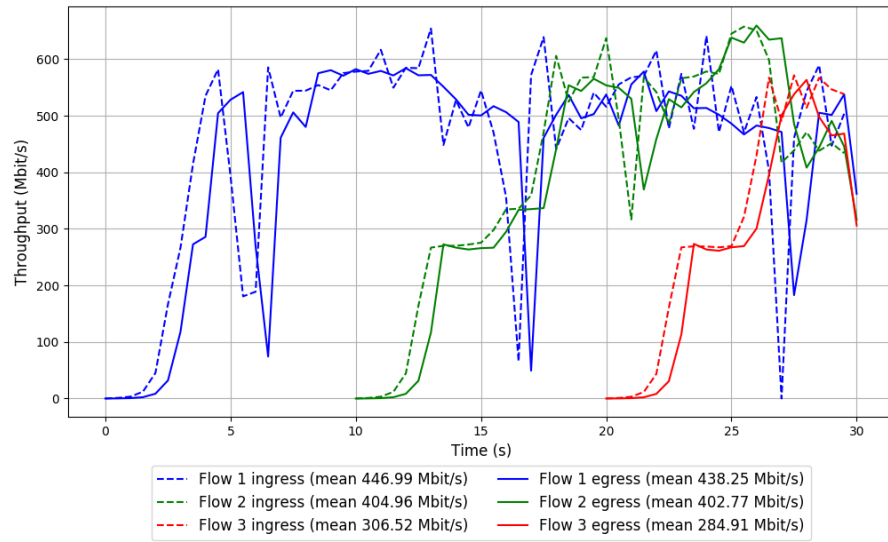
-- Flow 3:

Average throughput: 284.91 Mbit/s

95th percentile per-packet one-way delay: 257.662 ms

Loss rate: 9.53%

# Run 5: Report of TCP BBR — Data Link

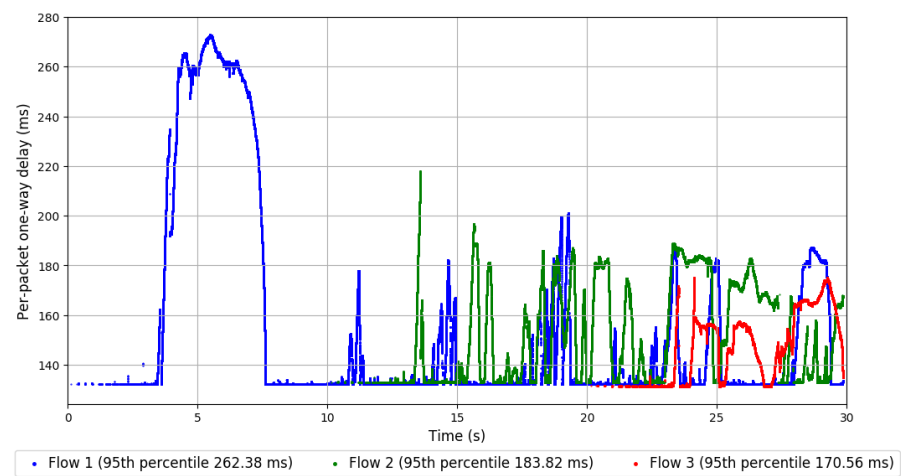
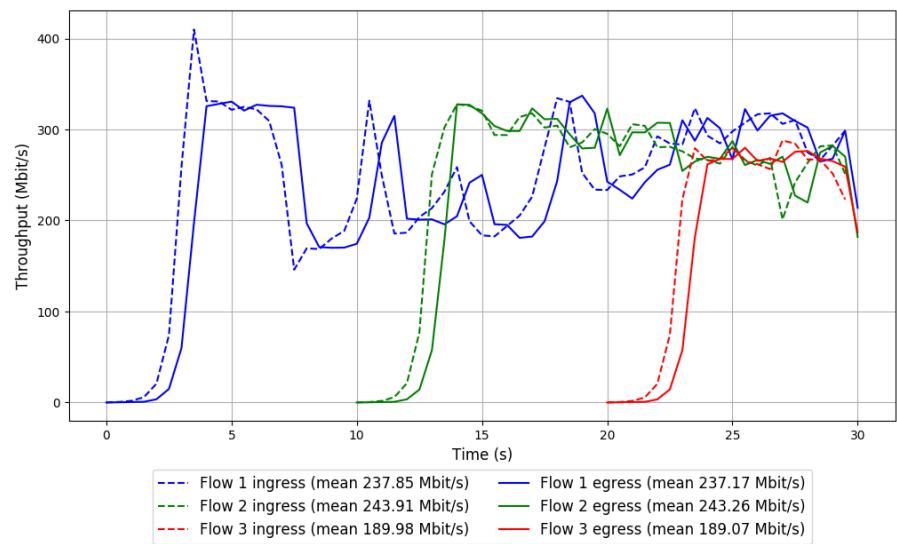


Run 1: Statistics of Copa

Start at: 2019-09-18 15:55:51  
End at: 2019-09-18 15:56:21  
Local clock offset: -0.086 ms  
Remote clock offset: -0.134 ms

# Below is generated by plot.py at 2019-09-18 19:56:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 460.18 Mbit/s  
95th percentile per-packet one-way delay: 258.396 ms  
Loss rate: 1.58%  
-- Flow 1:  
Average throughput: 237.17 Mbit/s  
95th percentile per-packet one-way delay: 262.382 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 243.26 Mbit/s  
95th percentile per-packet one-way delay: 183.823 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 189.07 Mbit/s  
95th percentile per-packet one-way delay: 170.562 ms  
Loss rate: 3.11%

Run 1: Report of Copa — Data Link



Run 2: Statistics of Copa

Start at: 2019-09-18 16:40:29

End at: 2019-09-18 16:40:59

Local clock offset: 0.352 ms

Remote clock offset: 0.244 ms

# Below is generated by plot.py at 2019-09-18 19:57:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 491.72 Mbit/s

95th percentile per-packet one-way delay: 250.647 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 265.77 Mbit/s

95th percentile per-packet one-way delay: 258.341 ms

Loss rate: 0.97%

-- Flow 2:

Average throughput: 249.10 Mbit/s

95th percentile per-packet one-way delay: 224.484 ms

Loss rate: 1.69%

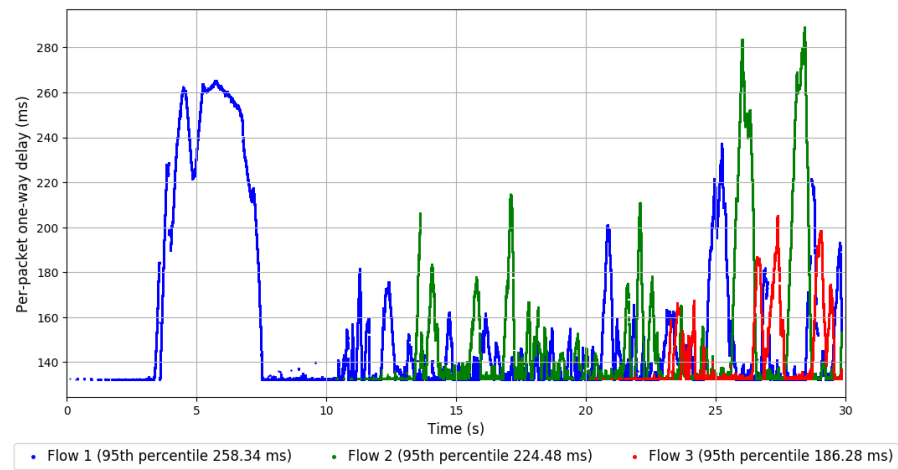
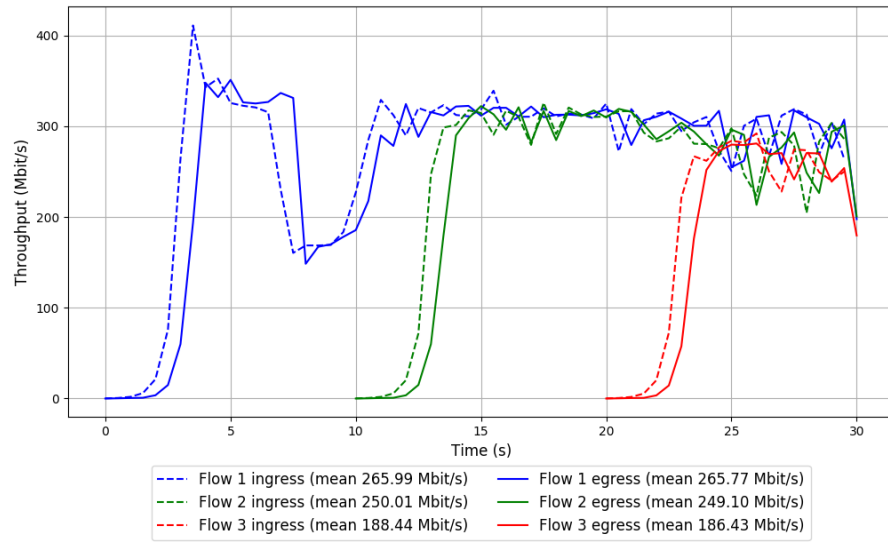
-- Flow 3:

Average throughput: 186.43 Mbit/s

95th percentile per-packet one-way delay: 186.279 ms

Loss rate: 3.72%

## Run 2: Report of Copa — Data Link

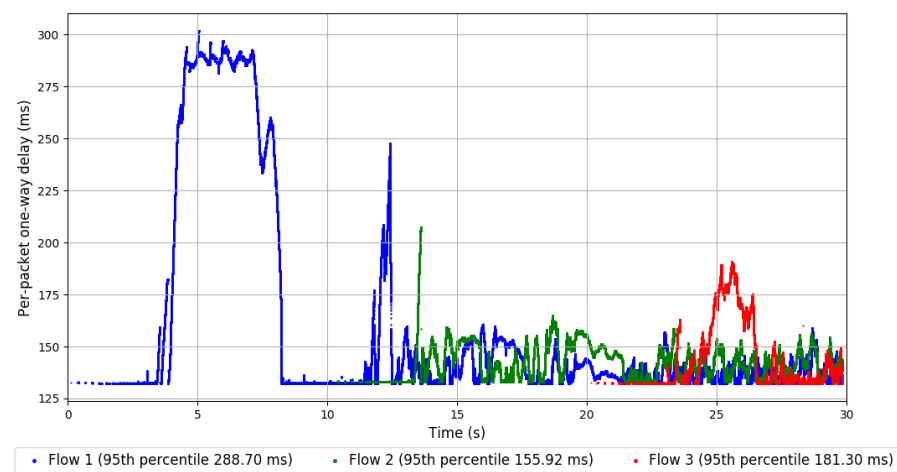
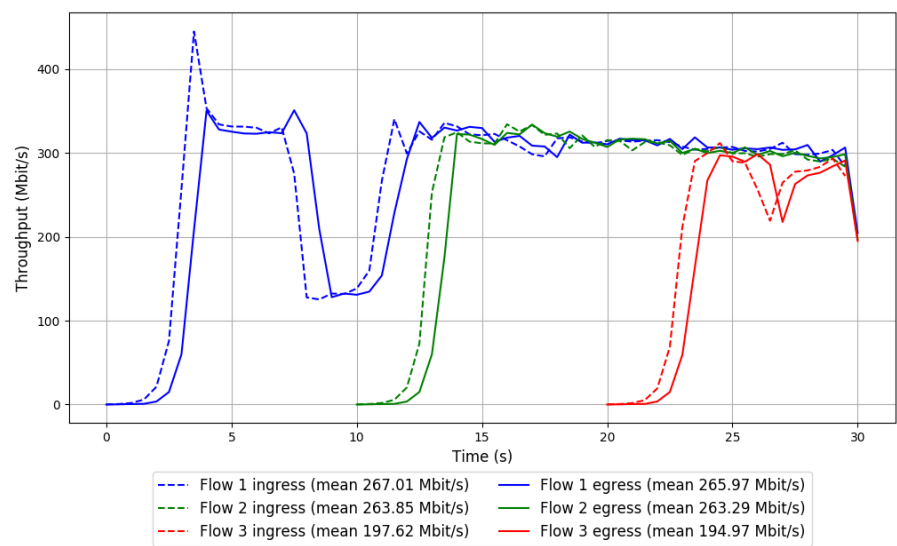


Run 3: Statistics of Copa

Start at: 2019-09-18 17:24:18  
End at: 2019-09-18 17:24:48  
Local clock offset: 0.161 ms  
Remote clock offset: -0.159 ms

# Below is generated by plot.py at 2019-09-18 19:57:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 504.11 Mbit/s  
95th percentile per-packet one-way delay: 285.979 ms  
Loss rate: 1.71%  
-- Flow 1:  
Average throughput: 265.97 Mbit/s  
95th percentile per-packet one-way delay: 288.696 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 263.29 Mbit/s  
95th percentile per-packet one-way delay: 155.916 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 194.97 Mbit/s  
95th percentile per-packet one-way delay: 181.299 ms  
Loss rate: 3.97%

Run 3: Report of Copa — Data Link



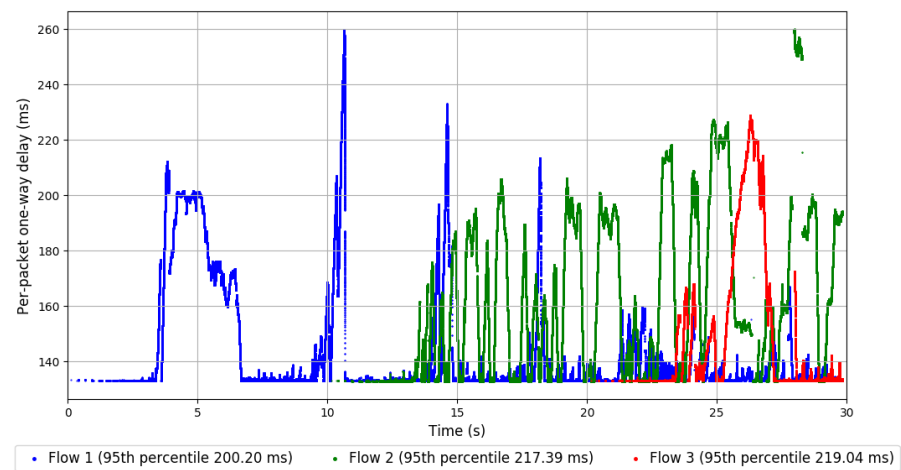
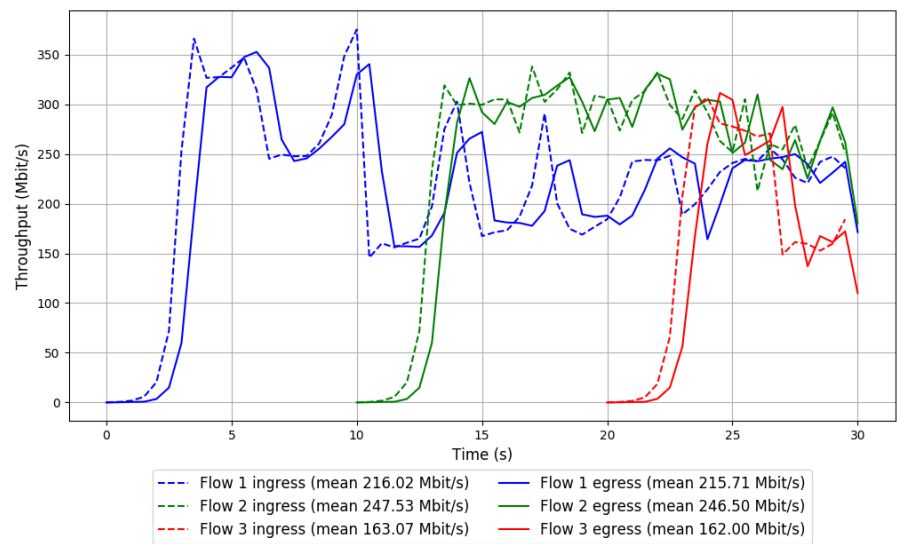


Run 4: Statistics of Copa

Start at: 2019-09-18 18:08:32  
End at: 2019-09-18 18:09:02  
Local clock offset: -0.033 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-09-18 20:08:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 431.87 Mbit/s  
95th percentile per-packet one-way delay: 209.088 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 215.71 Mbit/s  
95th percentile per-packet one-way delay: 200.202 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 246.50 Mbit/s  
95th percentile per-packet one-way delay: 217.387 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 162.00 Mbit/s  
95th percentile per-packet one-way delay: 219.042 ms  
Loss rate: 3.37%

Run 4: Report of Copa — Data Link

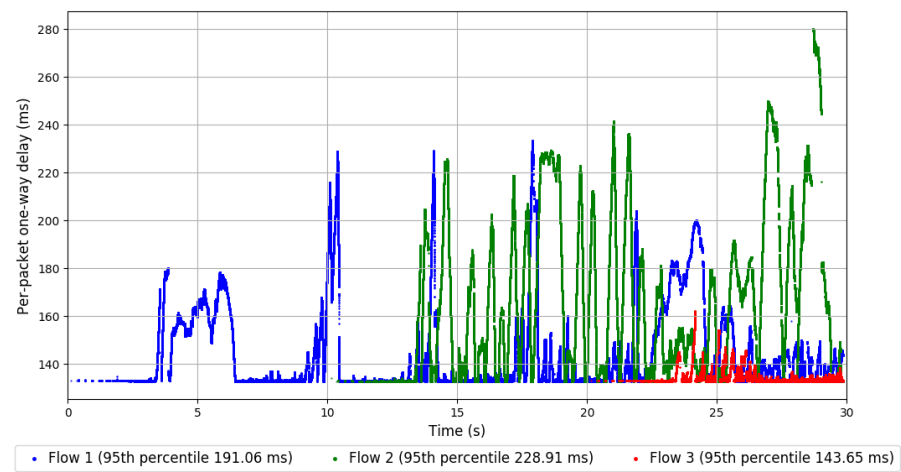
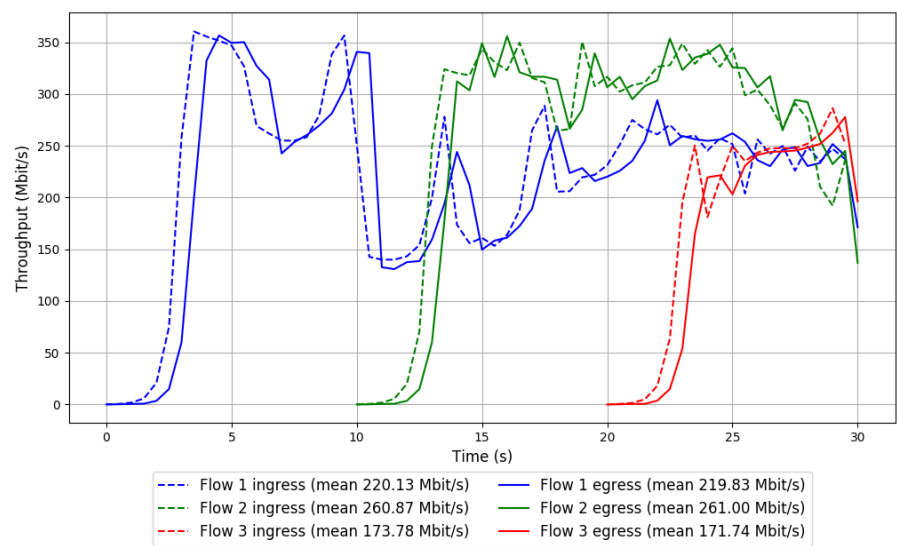


Run 5: Statistics of Copa

Start at: 2019-09-18 18:52:45  
End at: 2019-09-18 18:53:15  
Local clock offset: -0.235 ms  
Remote clock offset: -0.126 ms

```
# Below is generated by plot.py at 2019-09-18 20:09:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 448.86 Mbit/s
95th percentile per-packet one-way delay: 217.291 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 219.83 Mbit/s
95th percentile per-packet one-way delay: 191.055 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 261.00 Mbit/s
95th percentile per-packet one-way delay: 228.915 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 171.74 Mbit/s
95th percentile per-packet one-way delay: 143.652 ms
Loss rate: 3.81%
```

Run 5: Report of Copa — Data Link

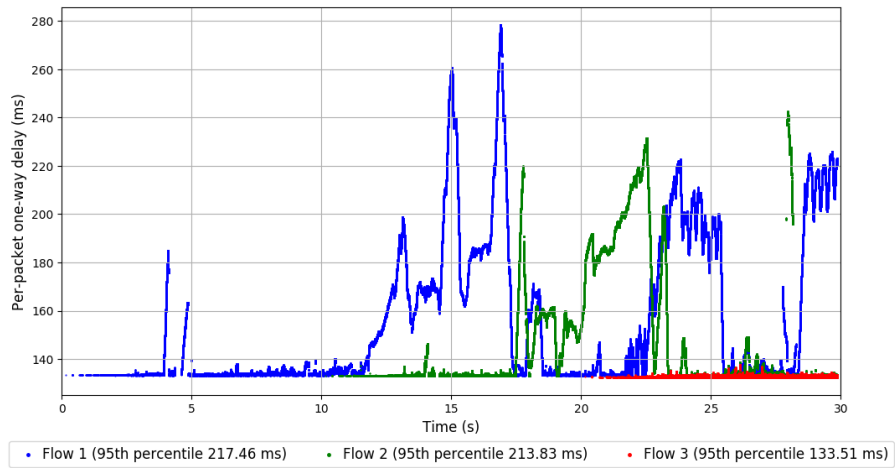
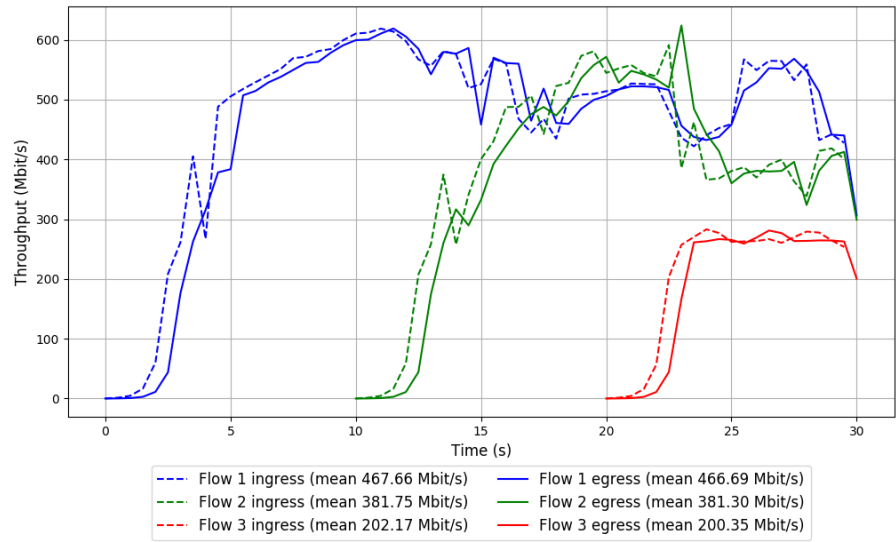


Run 1: Statistics of TCP Cubic

Start at: 2019-09-18 16:13:18  
End at: 2019-09-18 16:13:48  
Local clock offset: 0.111 ms  
Remote clock offset: -0.255 ms

# Below is generated by plot.py at 2019-09-18 20:09:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 784.96 Mbit/s  
95th percentile per-packet one-way delay: 214.599 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 466.69 Mbit/s  
95th percentile per-packet one-way delay: 217.458 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 381.30 Mbit/s  
95th percentile per-packet one-way delay: 213.826 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 200.35 Mbit/s  
95th percentile per-packet one-way delay: 133.507 ms  
Loss rate: 3.53%

# Run 1: Report of TCP Cubic — Data Link

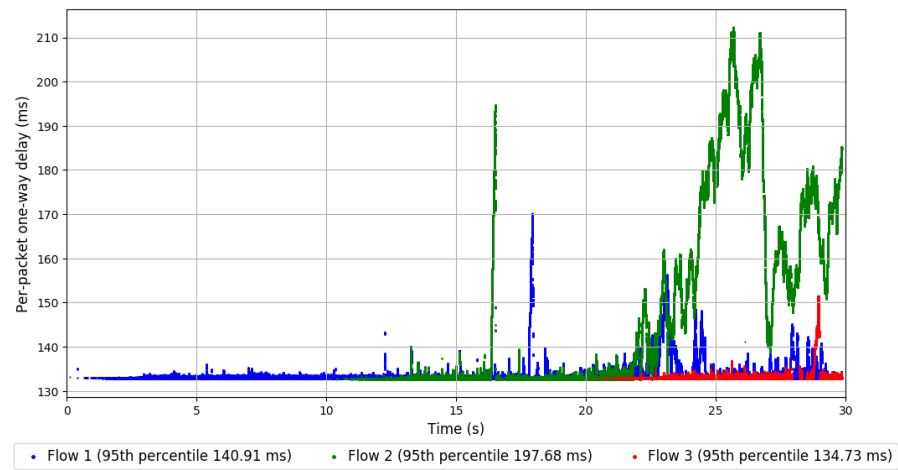
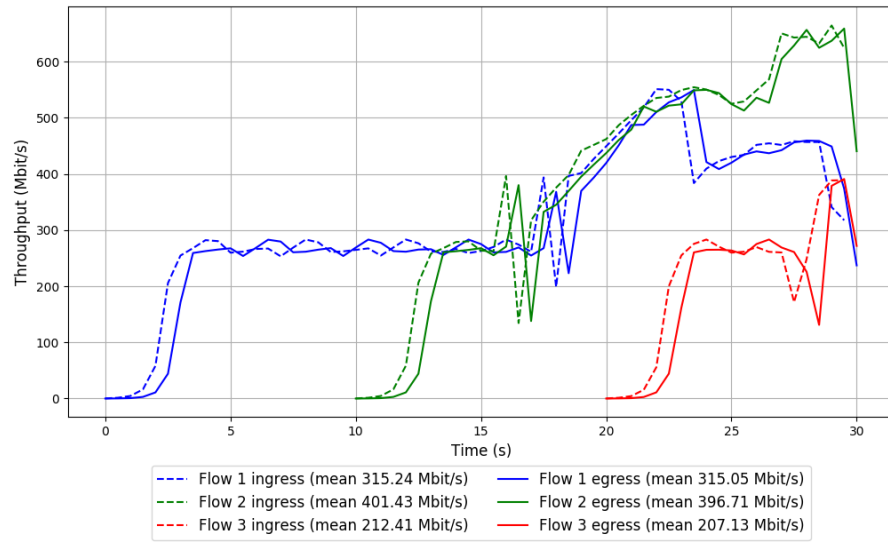


Run 2: Statistics of TCP Cubic

Start at: 2019-09-18 16:57:39  
End at: 2019-09-18 16:58:09  
Local clock offset: -0.139 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-09-18 20:09:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 645.83 Mbit/s  
95th percentile per-packet one-way delay: 183.361 ms  
Loss rate: 2.03%  
-- Flow 1:  
Average throughput: 315.05 Mbit/s  
95th percentile per-packet one-way delay: 140.915 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 396.71 Mbit/s  
95th percentile per-packet one-way delay: 197.682 ms  
Loss rate: 2.49%  
-- Flow 3:  
Average throughput: 207.13 Mbit/s  
95th percentile per-packet one-way delay: 134.730 ms  
Loss rate: 5.09%

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



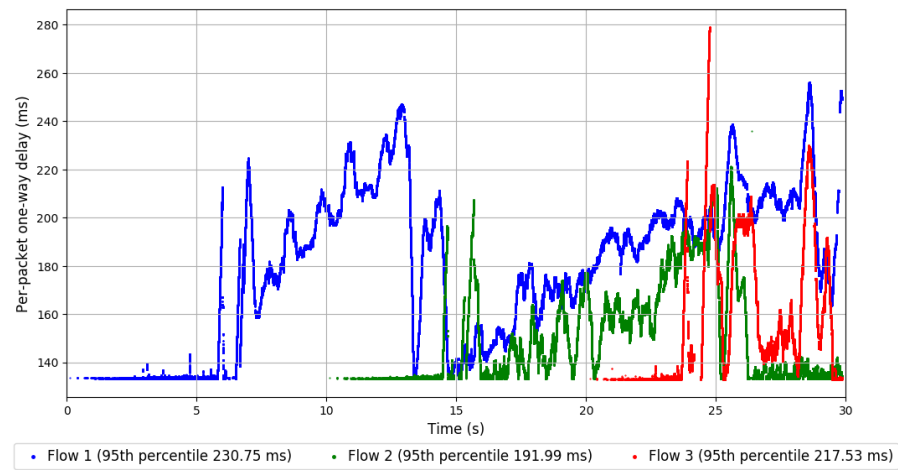
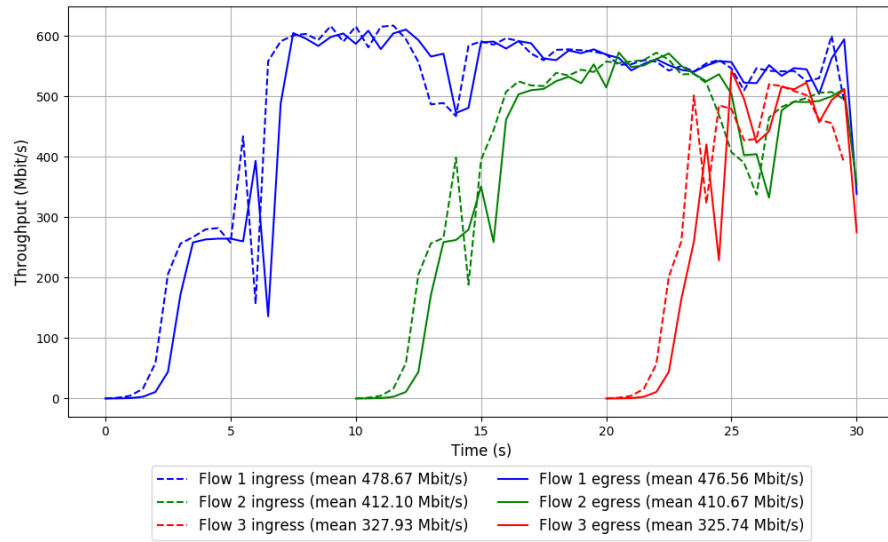


Run 3: Statistics of TCP Cubic

Start at: 2019-09-18 17:41:47  
End at: 2019-09-18 17:42:17  
Local clock offset: 0.19 ms  
Remote clock offset: -0.185 ms

# Below is generated by plot.py at 2019-09-18 20:10:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 855.47 Mbit/s  
95th percentile per-packet one-way delay: 225.019 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 476.56 Mbit/s  
95th percentile per-packet one-way delay: 230.751 ms  
Loss rate: 1.33%  
-- Flow 2:  
Average throughput: 410.67 Mbit/s  
95th percentile per-packet one-way delay: 191.990 ms  
Loss rate: 1.68%  
-- Flow 3:  
Average throughput: 325.74 Mbit/s  
95th percentile per-packet one-way delay: 217.532 ms  
Loss rate: 3.31%

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

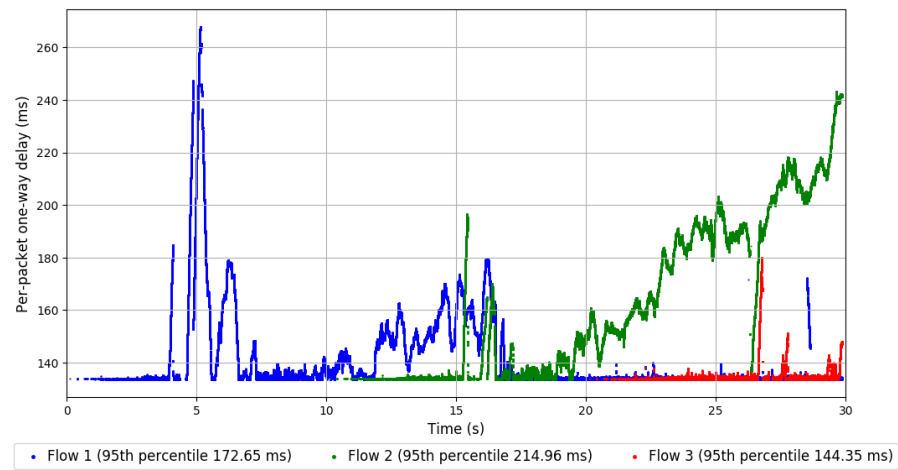
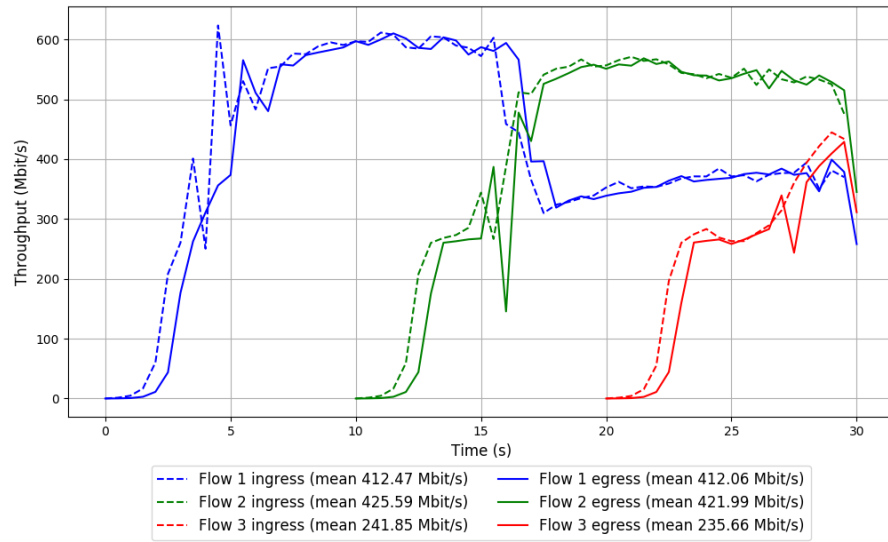


Run 4: Statistics of TCP Cubic

Start at: 2019-09-18 18:26:06  
End at: 2019-09-18 18:26:36  
Local clock offset: 0.456 ms  
Remote clock offset: -0.542 ms

# Below is generated by plot.py at 2019-09-18 20:10:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 768.87 Mbit/s  
95th percentile per-packet one-way delay: 208.273 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 412.06 Mbit/s  
95th percentile per-packet one-way delay: 172.652 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 421.99 Mbit/s  
95th percentile per-packet one-way delay: 214.964 ms  
Loss rate: 2.16%  
-- Flow 3:  
Average throughput: 235.66 Mbit/s  
95th percentile per-packet one-way delay: 144.355 ms  
Loss rate: 5.15%

# Run 4: Report of TCP Cubic — Data Link

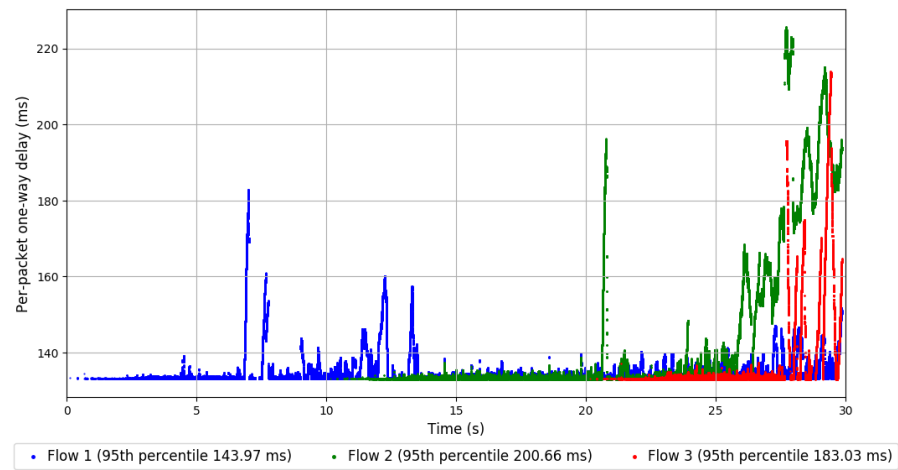
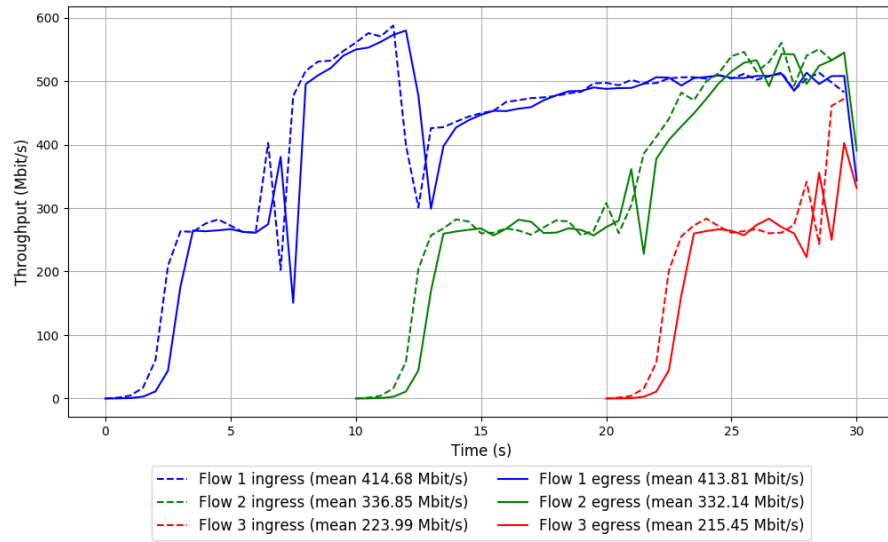


Run 5: Statistics of TCP Cubic

Start at: 2019-09-18 19:10:15  
End at: 2019-09-18 19:10:45  
Local clock offset: -0.11 ms  
Remote clock offset: -0.562 ms

# Below is generated by plot.py at 2019-09-18 20:10:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 704.47 Mbit/s  
95th percentile per-packet one-way delay: 183.375 ms  
Loss rate: 2.15%  
-- Flow 1:  
Average throughput: 413.81 Mbit/s  
95th percentile per-packet one-way delay: 143.973 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 332.14 Mbit/s  
95th percentile per-packet one-way delay: 200.659 ms  
Loss rate: 2.71%  
-- Flow 3:  
Average throughput: 215.45 Mbit/s  
95th percentile per-packet one-way delay: 183.032 ms  
Loss rate: 6.38%

# Run 5: Report of TCP Cubic — Data Link

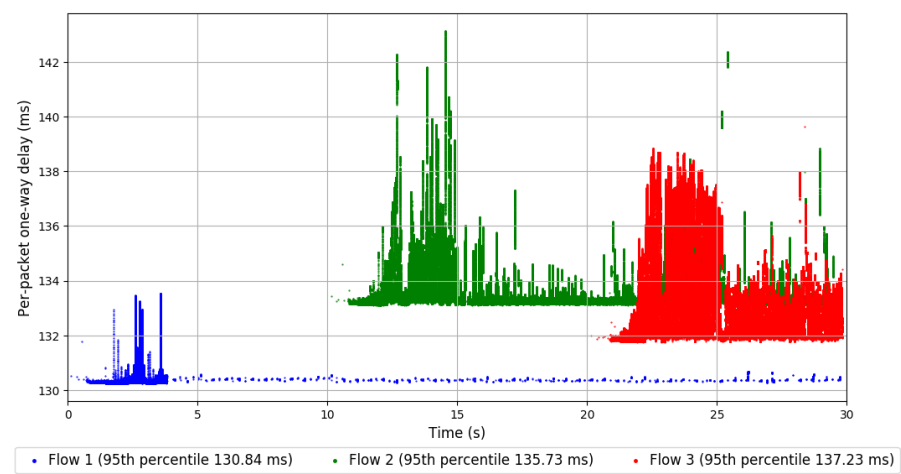
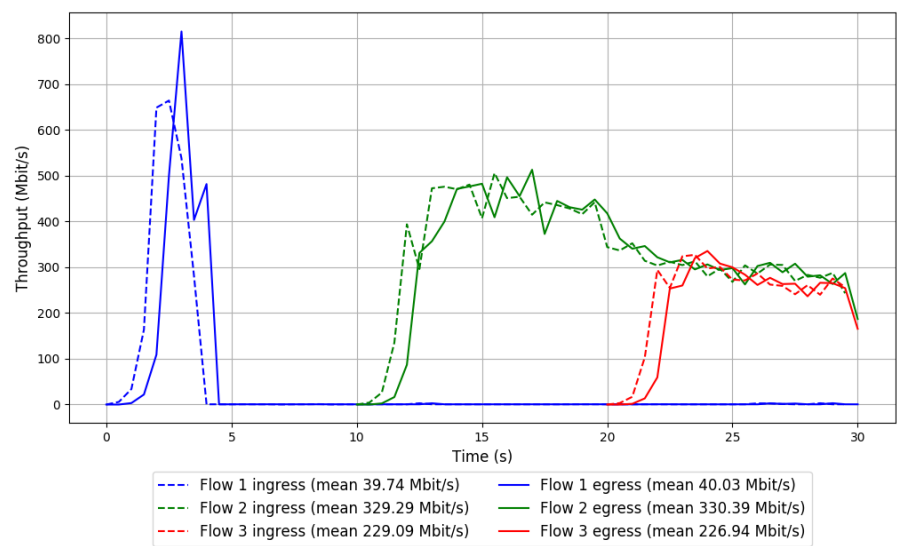


Run 1: Statistics of FillP

Start at: 2019-09-18 15:45:22  
End at: 2019-09-18 15:45:52  
Local clock offset: 0.205 ms  
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2019-09-18 20:10:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 332.53 Mbit/s  
95th percentile per-packet one-way delay: 136.434 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 40.03 Mbit/s  
95th percentile per-packet one-way delay: 130.840 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 330.39 Mbit/s  
95th percentile per-packet one-way delay: 135.726 ms  
Loss rate: 1.06%  
-- Flow 3:  
Average throughput: 226.94 Mbit/s  
95th percentile per-packet one-way delay: 137.231 ms  
Loss rate: 3.49%

Run 1: Report of FillP — Data Link



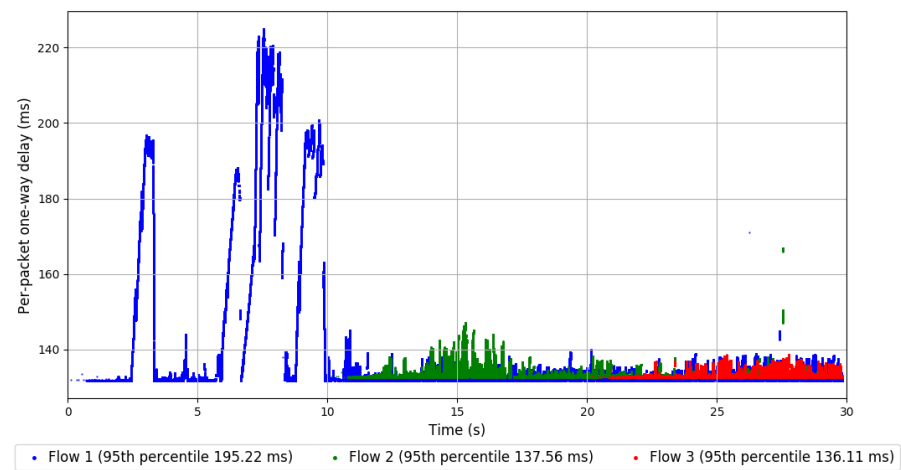
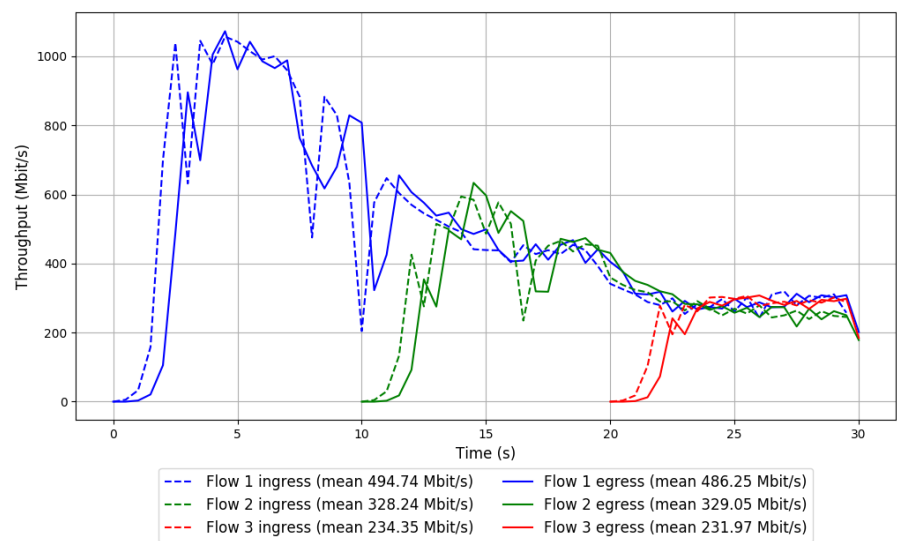


Run 2: Statistics of FillP

Start at: 2019-09-18 16:29:40  
End at: 2019-09-18 16:30:10  
Local clock offset: -0.255 ms  
Remote clock offset: -0.136 ms

# Below is generated by plot.py at 2019-09-18 20:22:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 779.41 Mbit/s  
95th percentile per-packet one-way delay: 192.572 ms  
Loss rate: 2.26%  
-- Flow 1:  
Average throughput: 486.25 Mbit/s  
95th percentile per-packet one-way delay: 195.216 ms  
Loss rate: 2.54%  
-- Flow 2:  
Average throughput: 329.05 Mbit/s  
95th percentile per-packet one-way delay: 137.564 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 231.97 Mbit/s  
95th percentile per-packet one-way delay: 136.108 ms  
Loss rate: 3.89%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-09-18 17:13:34

End at: 2019-09-18 17:14:04

Local clock offset: -0.103 ms

Remote clock offset: 0.181 ms

# Below is generated by plot.py at 2019-09-18 20:23:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 766.55 Mbit/s

95th percentile per-packet one-way delay: 175.079 ms

Loss rate: 1.23%

-- Flow 1:

Average throughput: 455.14 Mbit/s

95th percentile per-packet one-way delay: 181.831 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 353.14 Mbit/s

95th percentile per-packet one-way delay: 144.015 ms

Loss rate: 1.05%

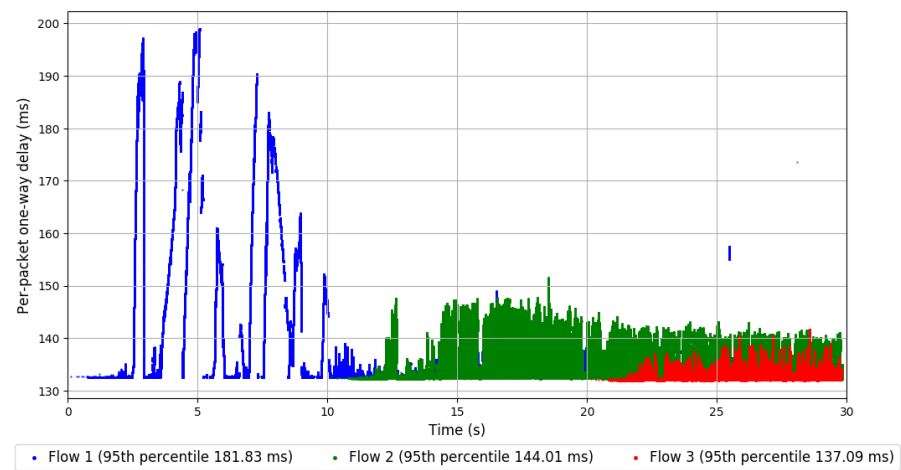
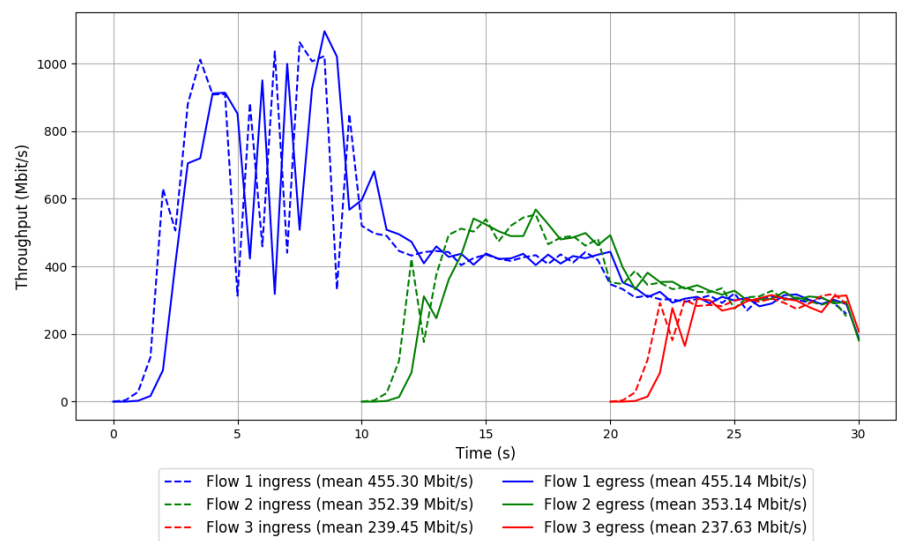
-- Flow 3:

Average throughput: 237.63 Mbit/s

95th percentile per-packet one-way delay: 137.089 ms

Loss rate: 3.55%

Run 3: Report of FillP — Data Link

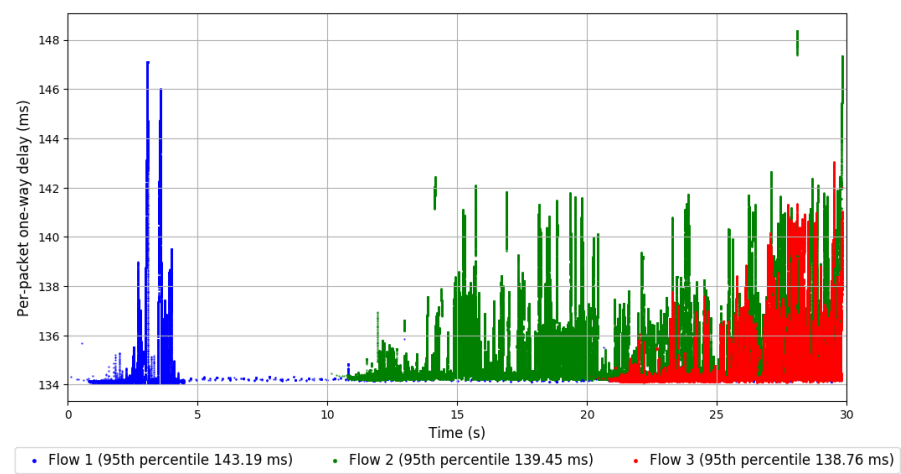
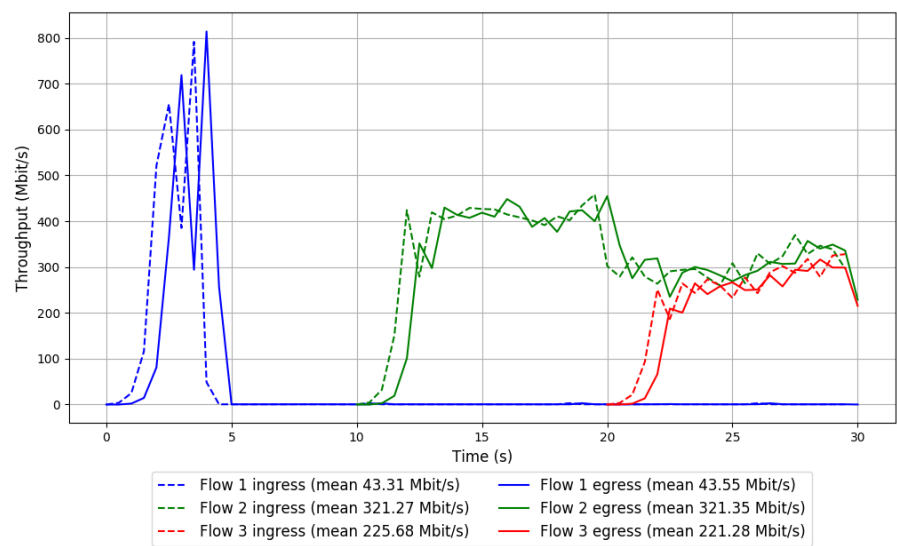


Run 4: Statistics of FillP

Start at: 2019-09-18 17:57:58  
End at: 2019-09-18 17:58:28  
Local clock offset: -0.11 ms  
Remote clock offset: -1.541 ms

# Below is generated by plot.py at 2019-09-18 20:23:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 328.25 Mbit/s  
95th percentile per-packet one-way delay: 139.556 ms  
Loss rate: 1.86%  
-- Flow 1:  
Average throughput: 43.55 Mbit/s  
95th percentile per-packet one-way delay: 143.194 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 321.35 Mbit/s  
95th percentile per-packet one-way delay: 139.454 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 221.28 Mbit/s  
95th percentile per-packet one-way delay: 138.761 ms  
Loss rate: 4.46%

Run 4: Report of FillP — Data Link

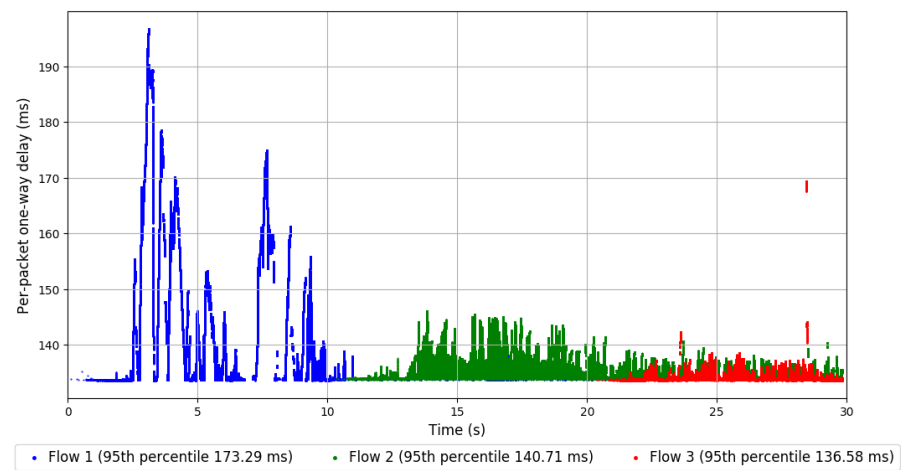
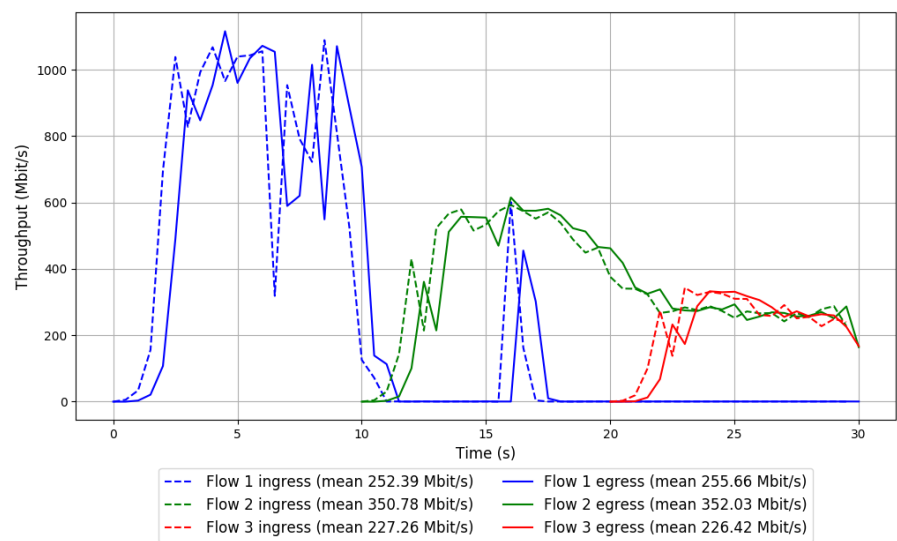


Run 5: Statistics of FillP

Start at: 2019-09-18 18:42:12  
End at: 2019-09-18 18:42:42  
Local clock offset: -0.035 ms  
Remote clock offset: -1.162 ms

# Below is generated by plot.py at 2019-09-18 20:23:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 560.79 Mbit/s  
95th percentile per-packet one-way delay: 163.742 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 255.66 Mbit/s  
95th percentile per-packet one-way delay: 173.294 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 352.03 Mbit/s  
95th percentile per-packet one-way delay: 140.709 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 226.42 Mbit/s  
95th percentile per-packet one-way delay: 136.579 ms  
Loss rate: 2.90%

Run 5: Report of FillP — Data Link



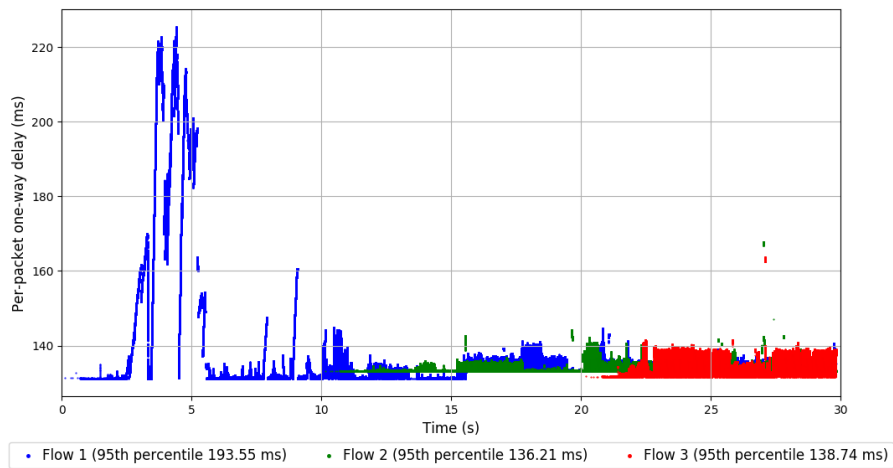
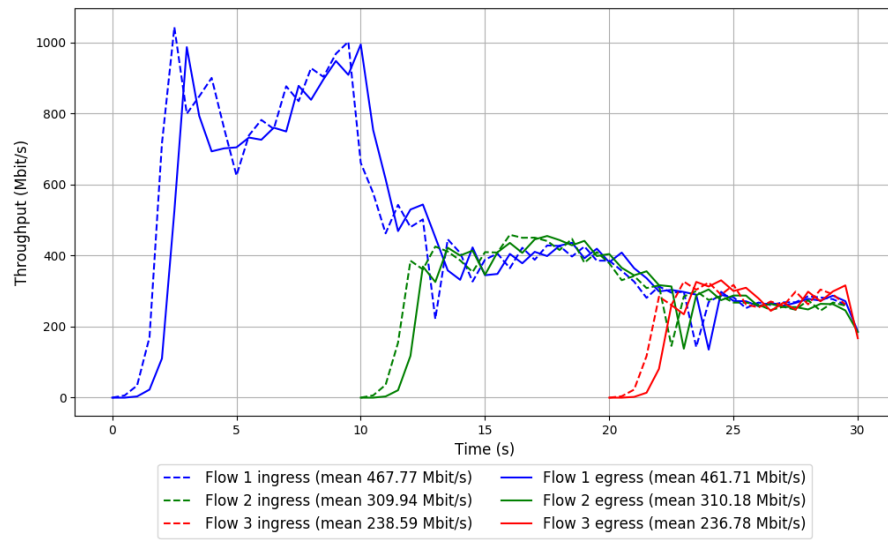


Run 1: Statistics of FillP-Sheep

Start at: 2019-09-18 16:01:50  
End at: 2019-09-18 16:02:20  
Local clock offset: -0.07 ms  
Remote clock offset: -0.646 ms

# Below is generated by plot.py at 2019-09-18 20:25:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 744.08 Mbit/s  
95th percentile per-packet one-way delay: 169.366 ms  
Loss rate: 2.00%  
-- Flow 1:  
Average throughput: 461.71 Mbit/s  
95th percentile per-packet one-way delay: 193.547 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 310.18 Mbit/s  
95th percentile per-packet one-way delay: 136.209 ms  
Loss rate: 1.21%  
-- Flow 3:  
Average throughput: 236.78 Mbit/s  
95th percentile per-packet one-way delay: 138.737 ms  
Loss rate: 3.23%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-09-18 16:46:33

End at: 2019-09-18 16:47:03

Local clock offset: -0.434 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2019-09-18 20:25:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 323.52 Mbit/s

95th percentile per-packet one-way delay: 136.729 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 39.14 Mbit/s

95th percentile per-packet one-way delay: 144.956 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 323.80 Mbit/s

95th percentile per-packet one-way delay: 135.852 ms

Loss rate: 1.11%

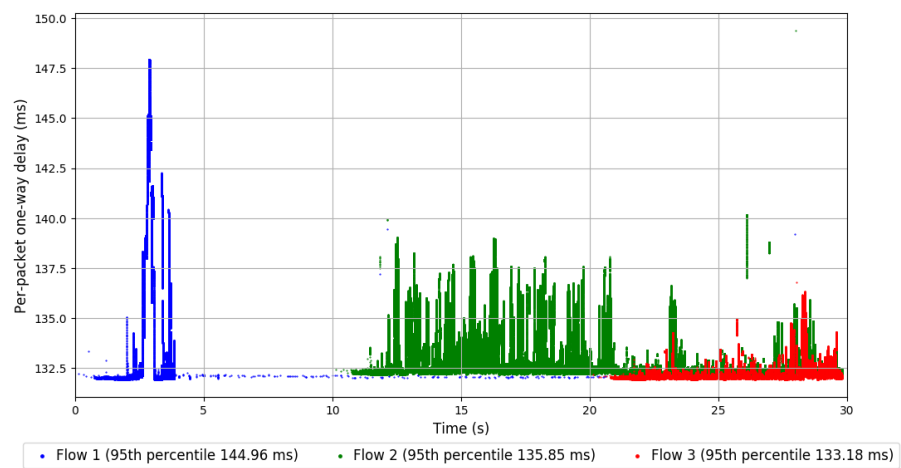
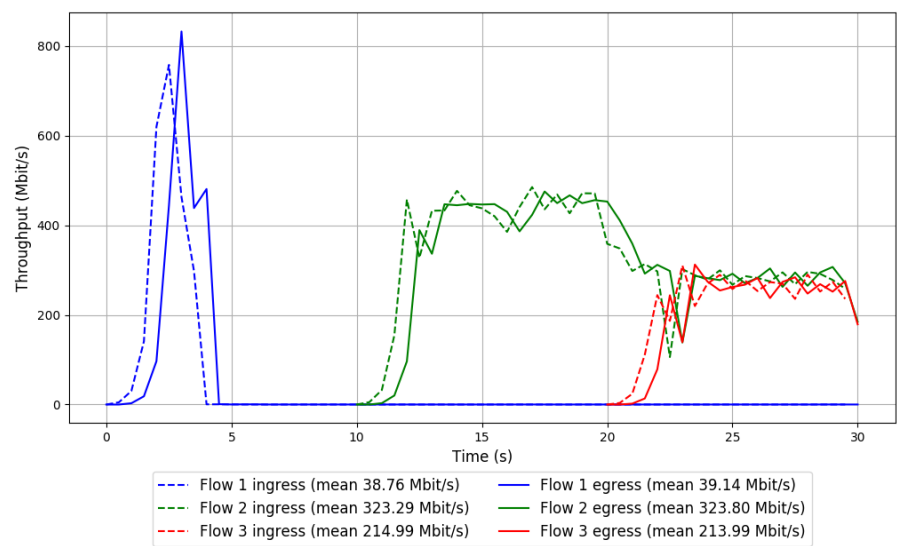
-- Flow 3:

Average throughput: 213.99 Mbit/s

95th percentile per-packet one-way delay: 133.179 ms

Loss rate: 3.01%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-09-18 17:30:29

End at: 2019-09-18 17:30:59

Local clock offset: -0.087 ms

Remote clock offset: -0.18 ms

# Below is generated by plot.py at 2019-09-18 20:25:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 352.47 Mbit/s

95th percentile per-packet one-way delay: 140.876 ms

Loss rate: 1.69%

-- Flow 1:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 194.618 ms

Loss rate: 1.09%

-- Flow 2:

Average throughput: 338.93 Mbit/s

95th percentile per-packet one-way delay: 139.292 ms

Loss rate: 1.31%

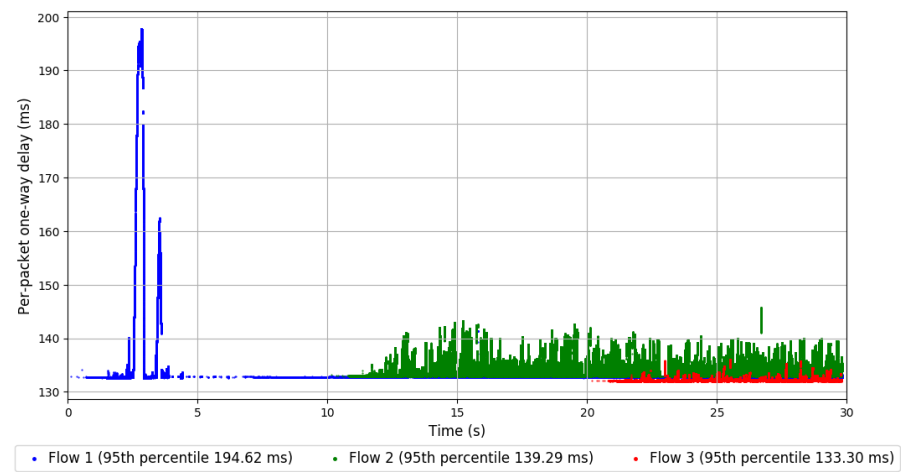
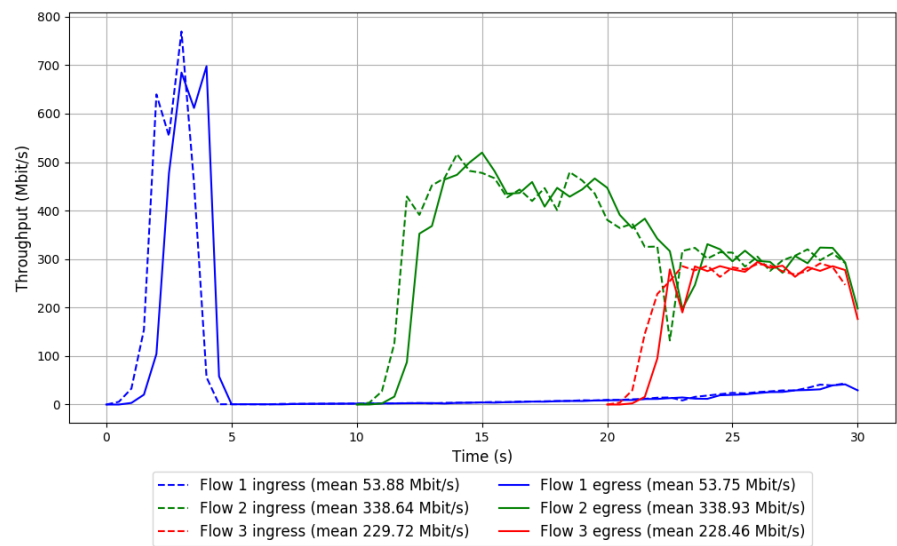
-- Flow 3:

Average throughput: 228.46 Mbit/s

95th percentile per-packet one-way delay: 133.303 ms

Loss rate: 3.24%

Run 3: Report of FillP-Sheep — Data Link

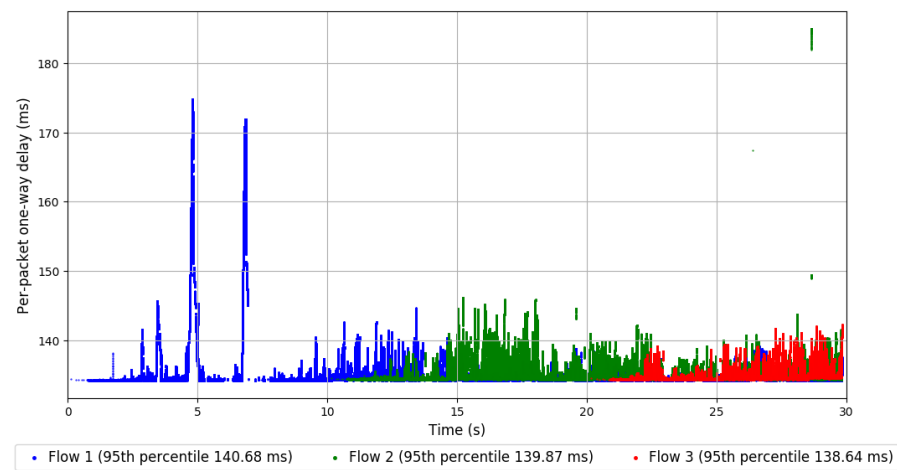
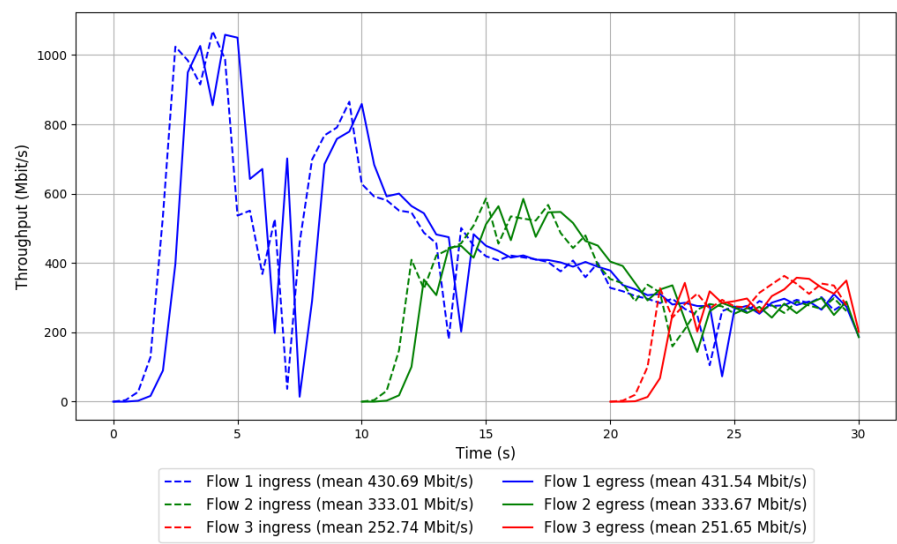


Run 4: Statistics of FillP-Sheep

Start at: 2019-09-18 18:14:34  
End at: 2019-09-18 18:15:04  
Local clock offset: 0.021 ms  
Remote clock offset: -1.561 ms

# Below is generated by plot.py at 2019-09-18 20:26:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 734.23 Mbit/s  
95th percentile per-packet one-way delay: 139.924 ms  
Loss rate: 1.12%  
-- Flow 1:  
Average throughput: 431.54 Mbit/s  
95th percentile per-packet one-way delay: 140.684 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 333.67 Mbit/s  
95th percentile per-packet one-way delay: 139.873 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 251.65 Mbit/s  
95th percentile per-packet one-way delay: 138.639 ms  
Loss rate: 3.13%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-09-18 18:58:38

End at: 2019-09-18 18:59:08

Local clock offset: -0.492 ms

Remote clock offset: 0.215 ms

# Below is generated by plot.py at 2019-09-18 20:32:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 804.34 Mbit/s

95th percentile per-packet one-way delay: 167.008 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 516.19 Mbit/s

95th percentile per-packet one-way delay: 175.131 ms

Loss rate: 0.94%

-- Flow 2:

Average throughput: 322.26 Mbit/s

95th percentile per-packet one-way delay: 137.521 ms

Loss rate: 1.20%

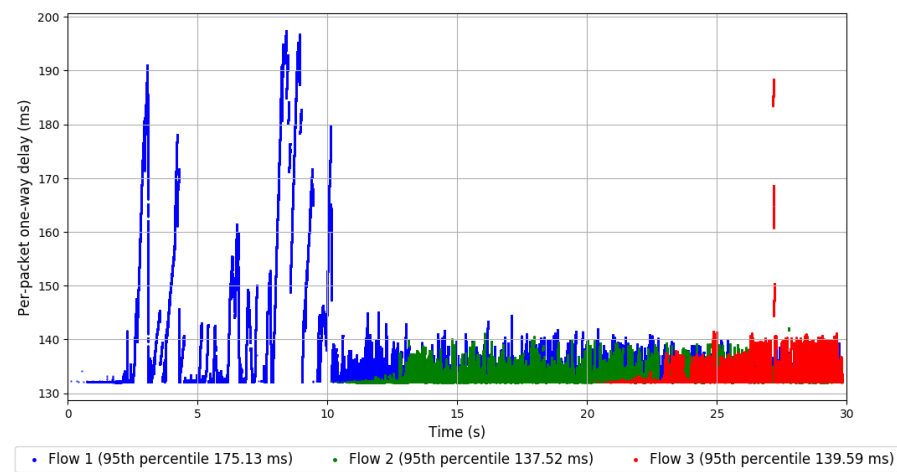
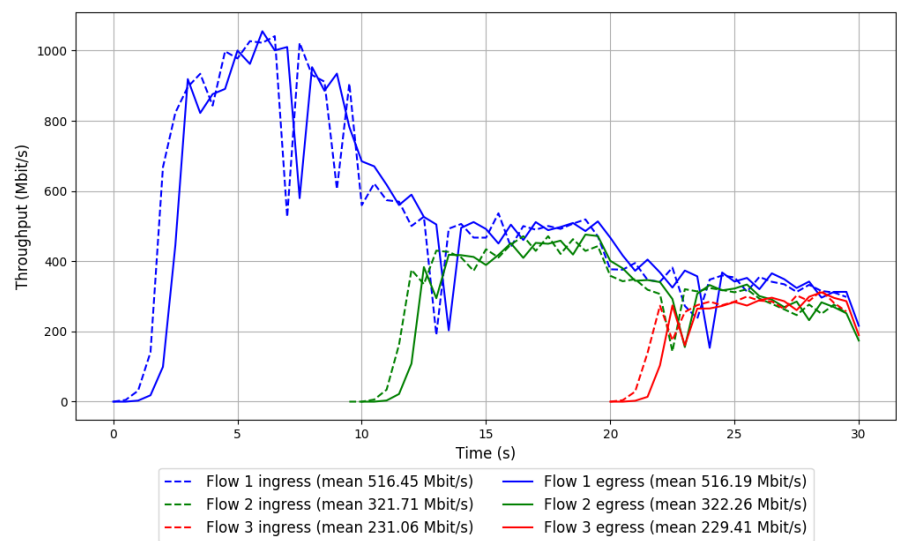
-- Flow 3:

Average throughput: 229.41 Mbit/s

95th percentile per-packet one-way delay: 139.591 ms

Loss rate: 3.20%

Run 5: Report of FillP-Sheep — Data Link

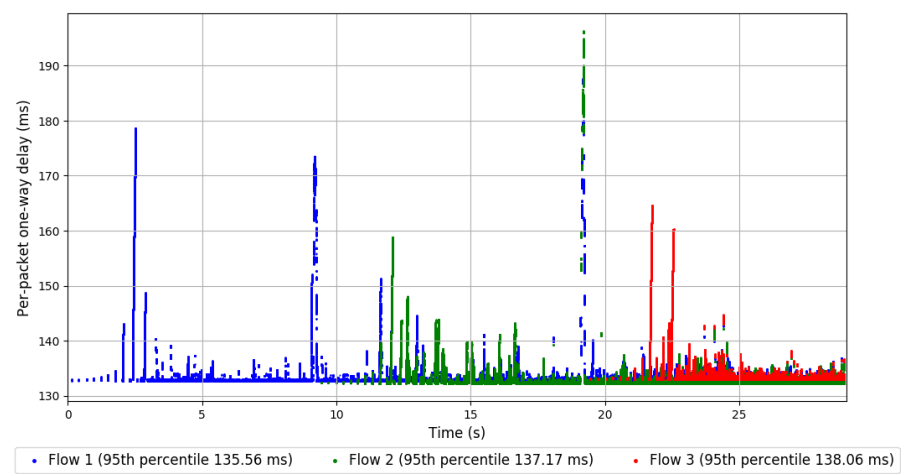
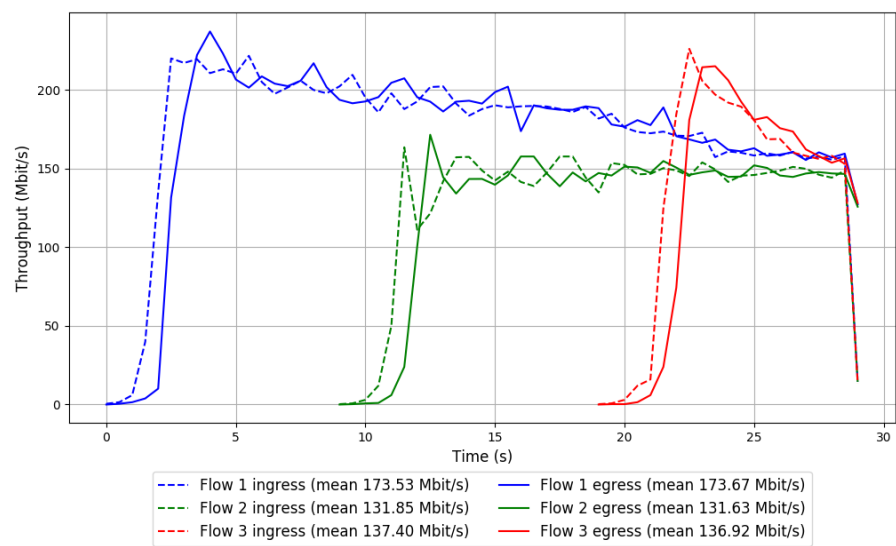


Run 1: Statistics of Indigo

Start at: 2019-09-18 16:16:42  
End at: 2019-09-18 16:17:12  
Local clock offset: -0.115 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-09-18 20:32:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 307.68 Mbit/s  
95th percentile per-packet one-way delay: 136.574 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 173.67 Mbit/s  
95th percentile per-packet one-way delay: 135.556 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 131.63 Mbit/s  
95th percentile per-packet one-way delay: 137.170 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 136.92 Mbit/s  
95th percentile per-packet one-way delay: 138.058 ms  
Loss rate: 3.08%

Run 1: Report of Indigo — Data Link

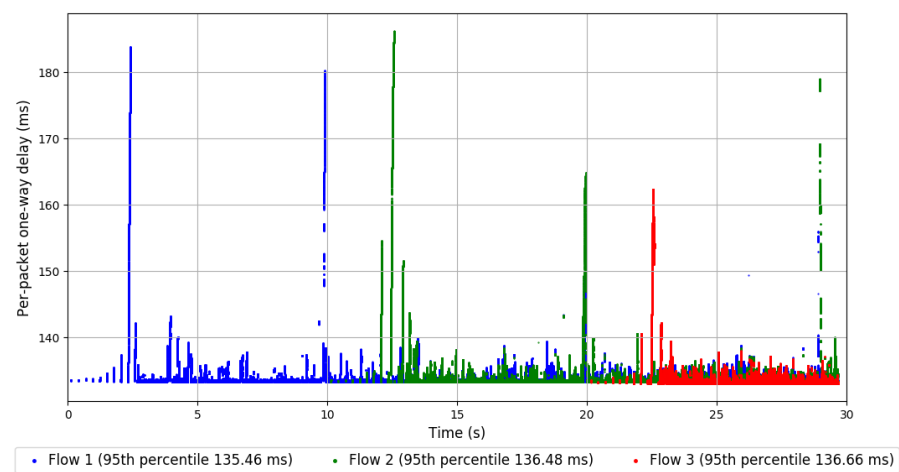
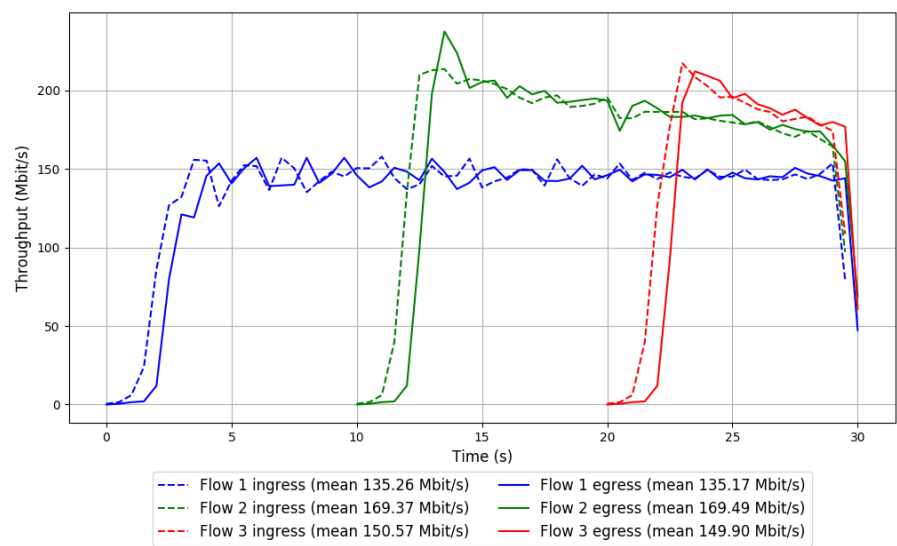


Run 2: Statistics of Indigo

Start at: 2019-09-18 17:00:56  
End at: 2019-09-18 17:01:26  
Local clock offset: 0.361 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-09-18 20:32:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 295.51 Mbit/s  
95th percentile per-packet one-way delay: 135.898 ms  
Loss rate: 1.45%  
-- Flow 1:  
Average throughput: 135.17 Mbit/s  
95th percentile per-packet one-way delay: 135.460 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 169.49 Mbit/s  
95th percentile per-packet one-way delay: 136.483 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 149.90 Mbit/s  
95th percentile per-packet one-way delay: 136.663 ms  
Loss rate: 3.18%

Run 2: Report of Indigo — Data Link

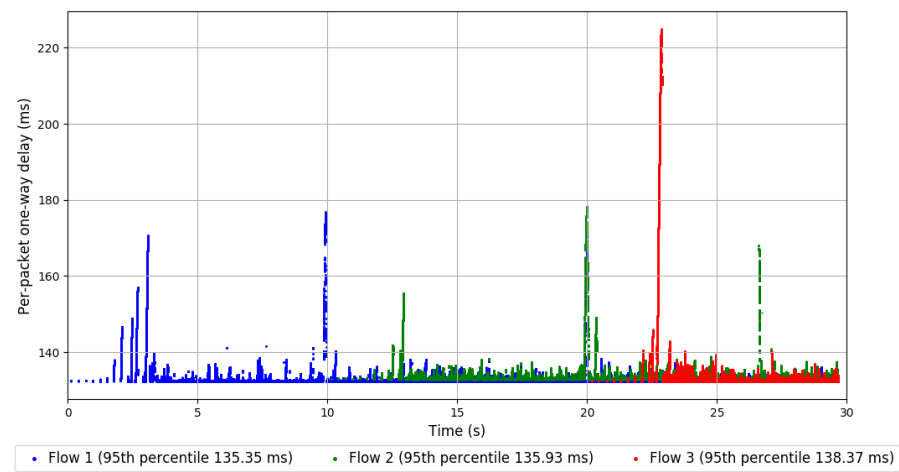
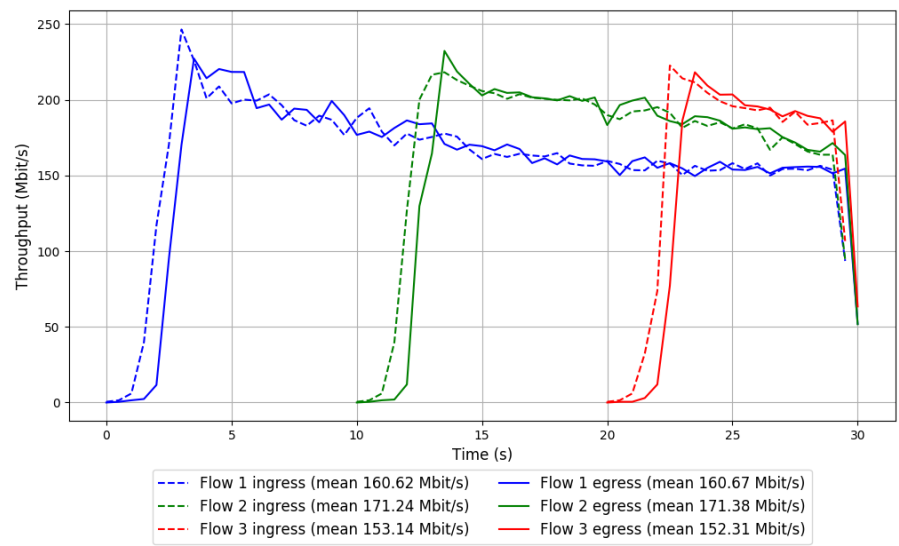


Run 3: Statistics of Indigo

Start at: 2019-09-18 17:45:16  
End at: 2019-09-18 17:45:46  
Local clock offset: -0.103 ms  
Remote clock offset: -0.113 ms

```
# Below is generated by plot.py at 2019-09-18 20:32:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.84 Mbit/s
95th percentile per-packet one-way delay: 135.853 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 160.67 Mbit/s
95th percentile per-packet one-way delay: 135.347 ms
Loss rate: 0.86%
-- Flow 2:
Average throughput: 171.38 Mbit/s
95th percentile per-packet one-way delay: 135.929 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 152.31 Mbit/s
95th percentile per-packet one-way delay: 138.371 ms
Loss rate: 3.25%
```

Run 3: Report of Indigo — Data Link



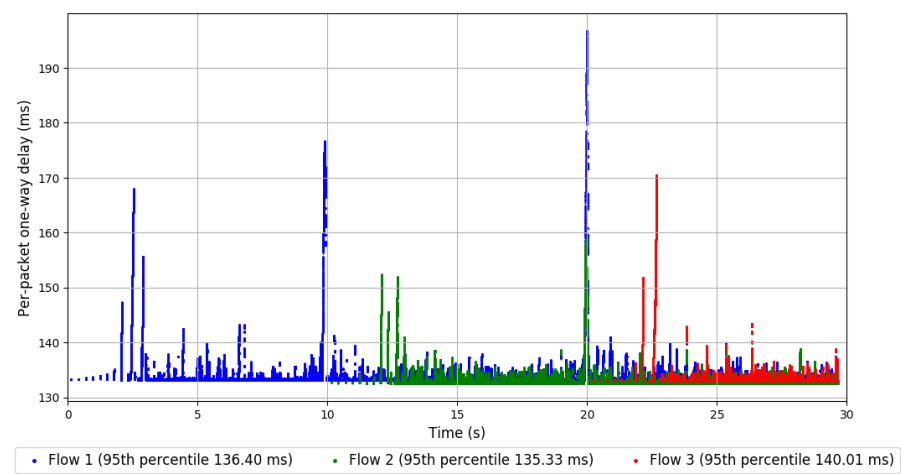
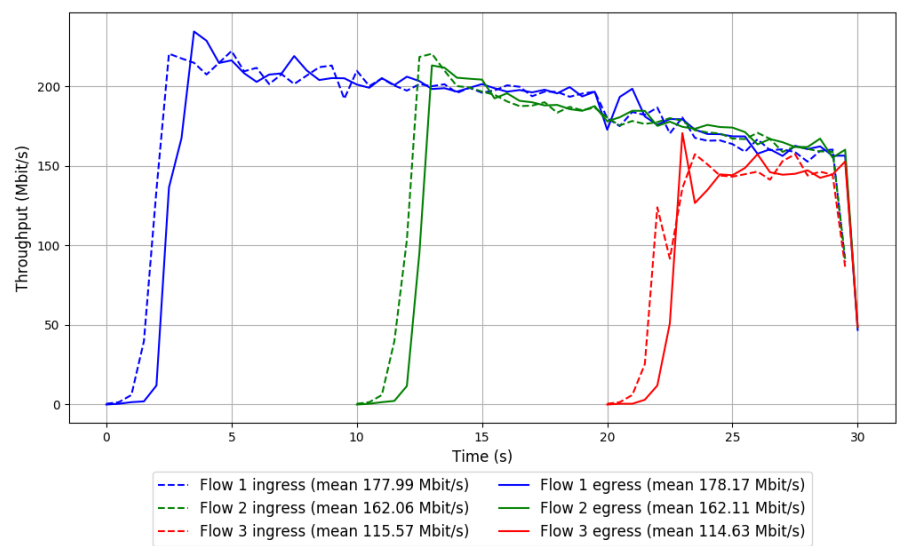


Run 4: Statistics of Indigo

Start at: 2019-09-18 18:29:30  
End at: 2019-09-18 18:30:00  
Local clock offset: 0.255 ms  
Remote clock offset: -0.176 ms

# Below is generated by plot.py at 2019-09-18 20:32:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 321.99 Mbit/s  
95th percentile per-packet one-way delay: 136.137 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 178.17 Mbit/s  
95th percentile per-packet one-way delay: 136.403 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 162.11 Mbit/s  
95th percentile per-packet one-way delay: 135.334 ms  
Loss rate: 1.31%  
-- Flow 3:  
Average throughput: 114.63 Mbit/s  
95th percentile per-packet one-way delay: 140.006 ms  
Loss rate: 3.51%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-09-18 19:13:35

End at: 2019-09-18 19:14:05

Local clock offset: 0.307 ms

Remote clock offset: 0.189 ms

# Below is generated by plot.py at 2019-09-18 20:33:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 301.34 Mbit/s

95th percentile per-packet one-way delay: 136.451 ms

Loss rate: 1.40%

-- Flow 1:

Average throughput: 168.18 Mbit/s

95th percentile per-packet one-way delay: 136.417 ms

Loss rate: 0.83%

-- Flow 2:

Average throughput: 128.68 Mbit/s

95th percentile per-packet one-way delay: 135.462 ms

Loss rate: 1.53%

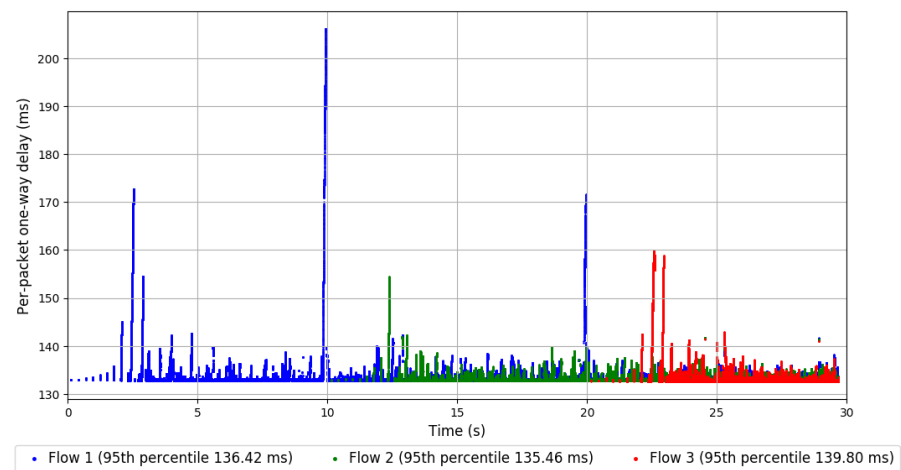
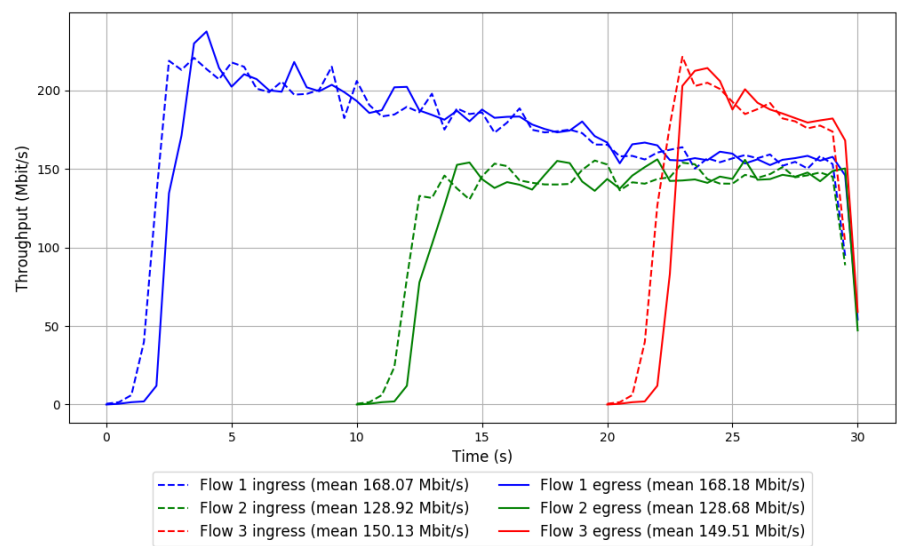
-- Flow 3:

Average throughput: 149.51 Mbit/s

95th percentile per-packet one-way delay: 139.796 ms

Loss rate: 3.14%

Run 5: Report of Indigo — Data Link

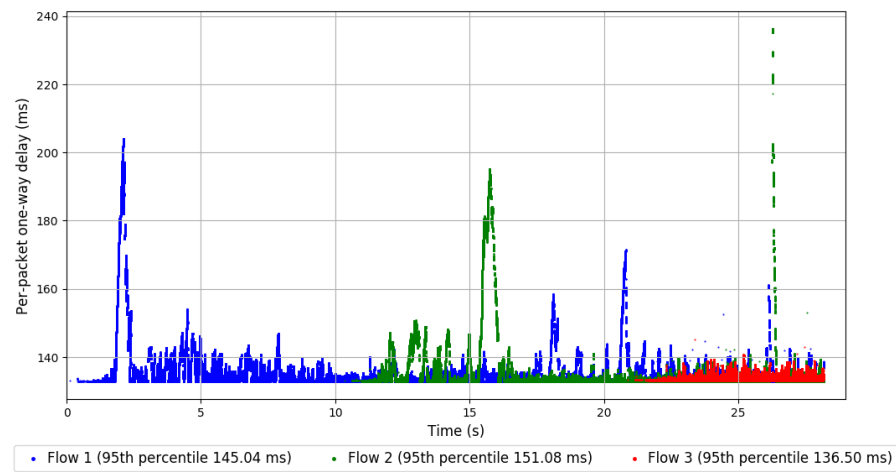
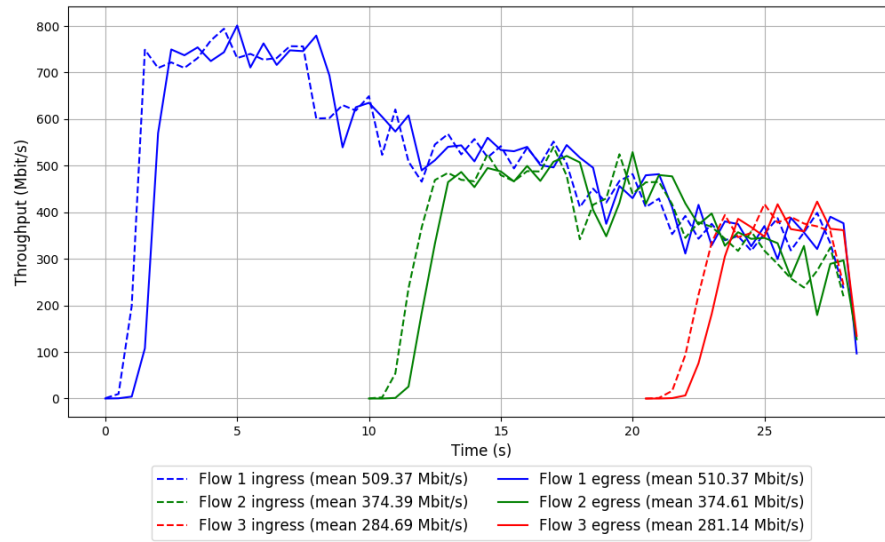


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-09-18 16:24:04  
End at: 2019-09-18 16:24:34  
Local clock offset: -0.047 ms  
Remote clock offset: -0.289 ms

# Below is generated by plot.py at 2019-09-18 20:38:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 821.53 Mbit/s  
95th percentile per-packet one-way delay: 145.763 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 510.37 Mbit/s  
95th percentile per-packet one-way delay: 145.037 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 374.61 Mbit/s  
95th percentile per-packet one-way delay: 151.084 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 281.14 Mbit/s  
95th percentile per-packet one-way delay: 136.498 ms  
Loss rate: 4.74%

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

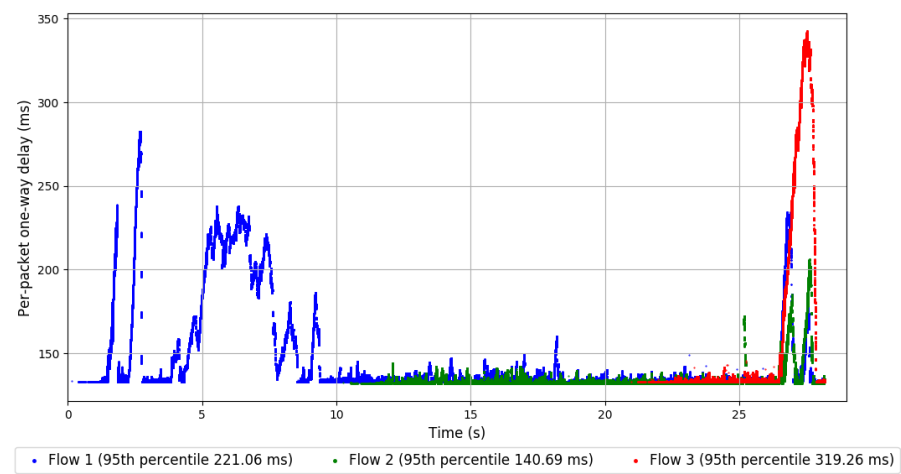
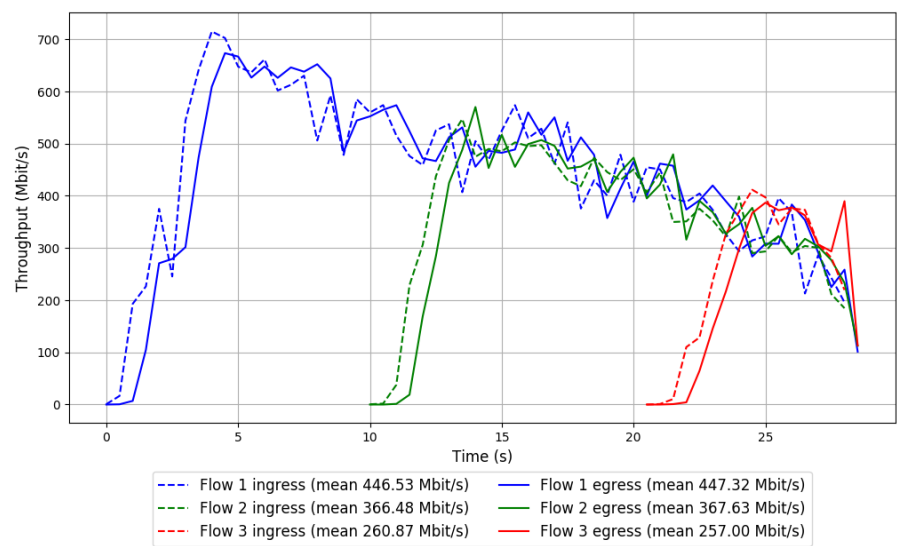


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:08:13  
End at: 2019-09-18 17:08:43  
Local clock offset: -0.111 ms  
Remote clock offset: -0.182 ms

# Below is generated by plot.py at 2019-09-18 20:39:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 747.99 Mbit/s  
95th percentile per-packet one-way delay: 219.494 ms  
Loss rate: 1.30%  
-- Flow 1:  
Average throughput: 447.32 Mbit/s  
95th percentile per-packet one-way delay: 221.058 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 367.63 Mbit/s  
95th percentile per-packet one-way delay: 140.687 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 257.00 Mbit/s  
95th percentile per-packet one-way delay: 319.265 ms  
Loss rate: 5.01%

Run 2: Report of Indigo-MusesC3 — Data Link



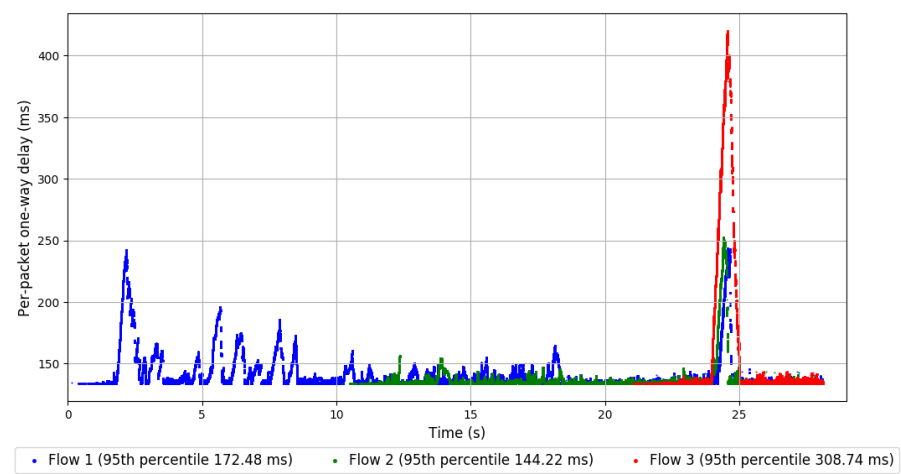
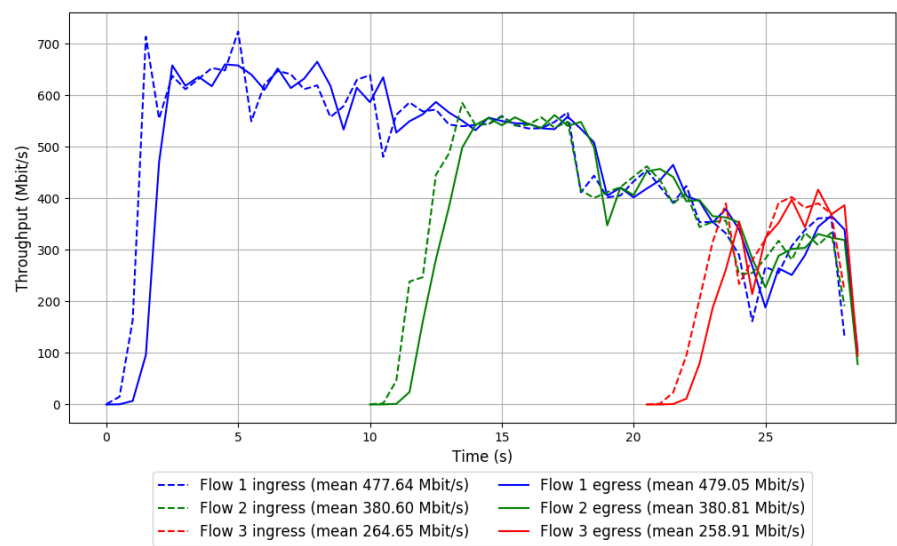


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-09-18 17:52:34  
End at: 2019-09-18 17:53:04  
Local clock offset: 0.008 ms  
Remote clock offset: -1.114 ms

# Below is generated by plot.py at 2019-09-18 20:40:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 790.43 Mbit/s  
95th percentile per-packet one-way delay: 170.261 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 479.05 Mbit/s  
95th percentile per-packet one-way delay: 172.477 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 380.81 Mbit/s  
95th percentile per-packet one-way delay: 144.218 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 258.91 Mbit/s  
95th percentile per-packet one-way delay: 308.736 ms  
Loss rate: 5.62%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-09-18 18:36:50

End at: 2019-09-18 18:37:20

Local clock offset: -0.239 ms

Remote clock offset: 0.084 ms

# Below is generated by plot.py at 2019-09-18 20:41:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 760.52 Mbit/s

95th percentile per-packet one-way delay: 170.924 ms

Loss rate: 1.38%

-- Flow 1:

Average throughput: 464.73 Mbit/s

95th percentile per-packet one-way delay: 175.648 ms

Loss rate: 0.70%

-- Flow 2:

Average throughput: 348.82 Mbit/s

95th percentile per-packet one-way delay: 143.926 ms

Loss rate: 1.55%

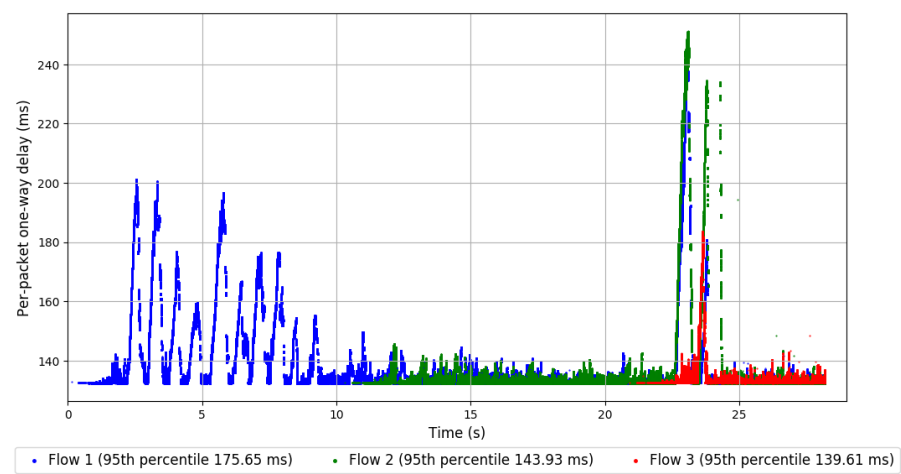
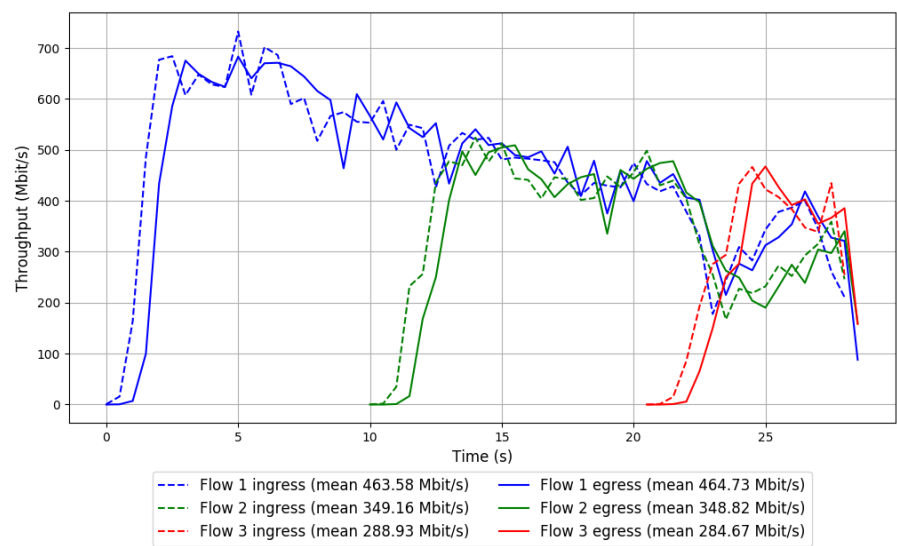
-- Flow 3:

Average throughput: 284.67 Mbit/s

95th percentile per-packet one-way delay: 139.612 ms

Loss rate: 4.98%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-09-18 19:20:59

End at: 2019-09-18 19:21:29

Local clock offset: 0.243 ms

Remote clock offset: 0.816 ms

# Below is generated by plot.py at 2019-09-18 20:45:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 764.56 Mbit/s

95th percentile per-packet one-way delay: 167.784 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 465.14 Mbit/s

95th percentile per-packet one-way delay: 166.927 ms

Loss rate: 0.43%

-- Flow 2:

Average throughput: 365.93 Mbit/s

95th percentile per-packet one-way delay: 175.296 ms

Loss rate: 0.59%

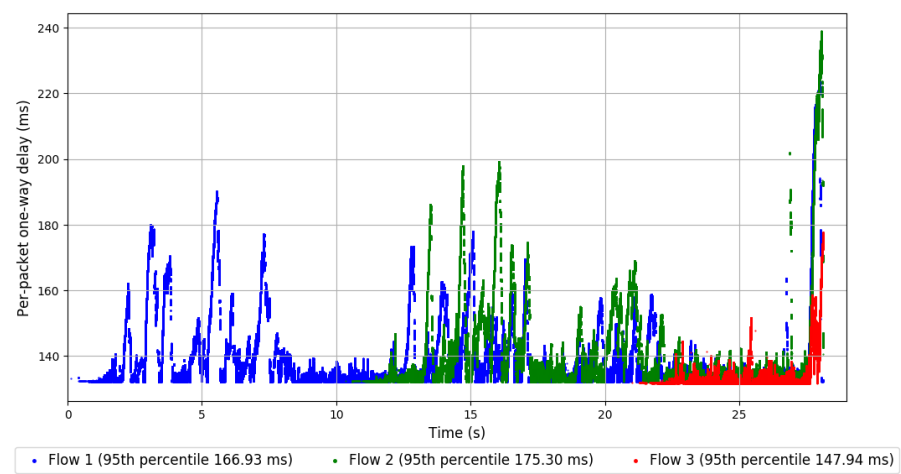
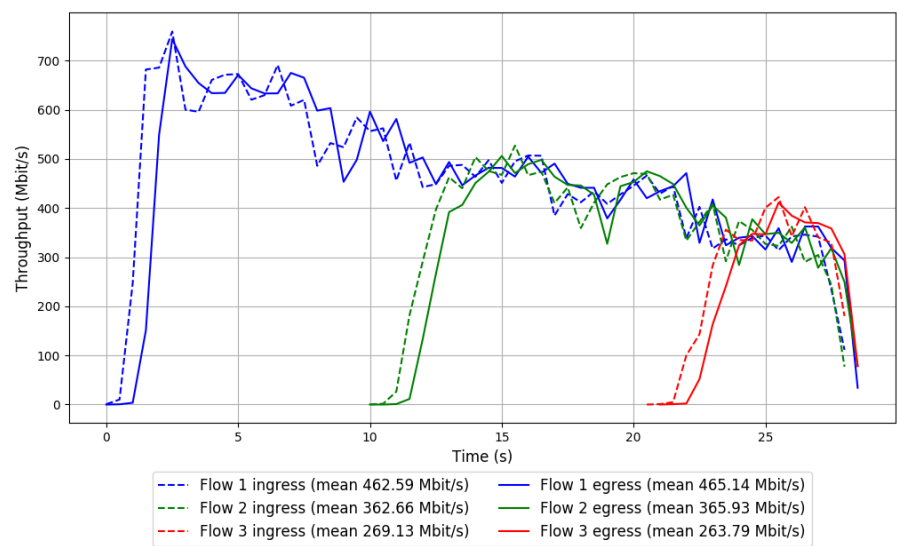
-- Flow 3:

Average throughput: 263.79 Mbit/s

95th percentile per-packet one-way delay: 147.938 ms

Loss rate: 5.52%

Run 5: Report of Indigo-MusesC3 — Data Link

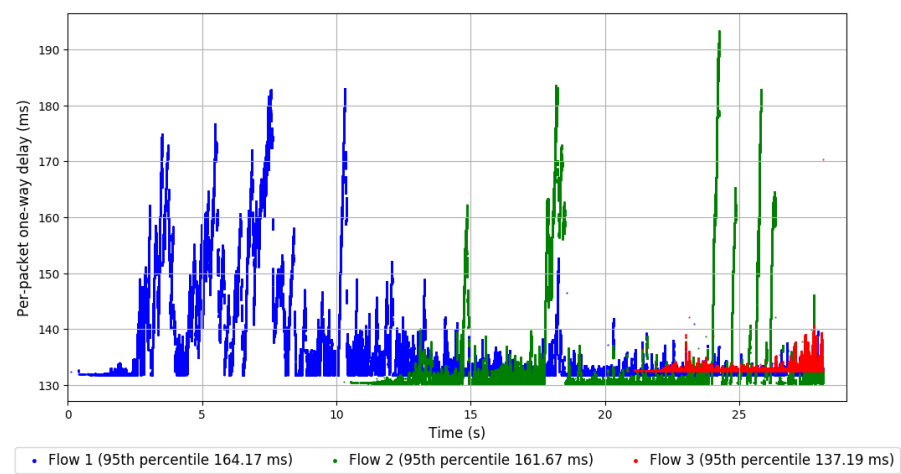
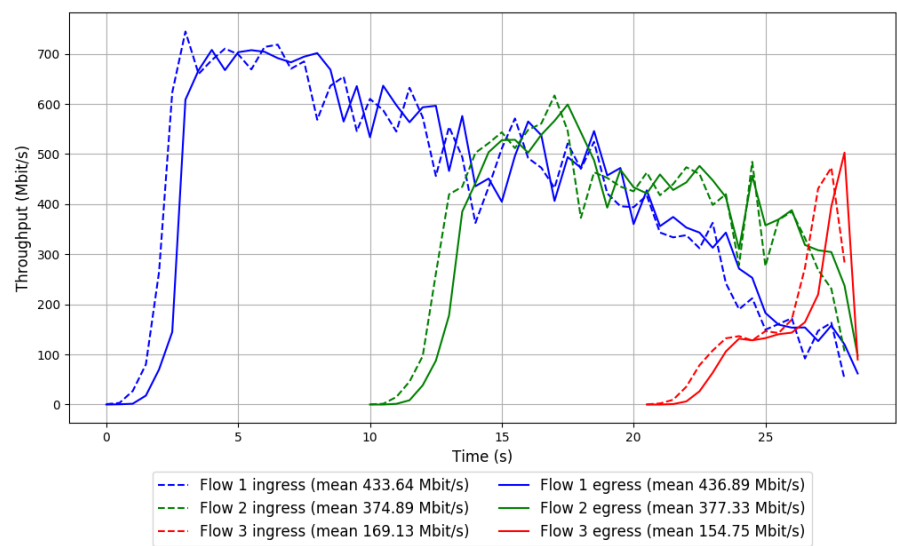


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-09-18 15:49:54  
End at: 2019-09-18 15:50:24  
Local clock offset: -0.418 ms  
Remote clock offset: -0.245 ms

# Below is generated by plot.py at 2019-09-18 20:45:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 717.69 Mbit/s  
95th percentile per-packet one-way delay: 162.517 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 436.89 Mbit/s  
95th percentile per-packet one-way delay: 164.171 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 377.33 Mbit/s  
95th percentile per-packet one-way delay: 161.673 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 154.75 Mbit/s  
95th percentile per-packet one-way delay: 137.195 ms  
Loss rate: 11.71%

Run 1: Report of Indigo-MusesC5 — Data Link



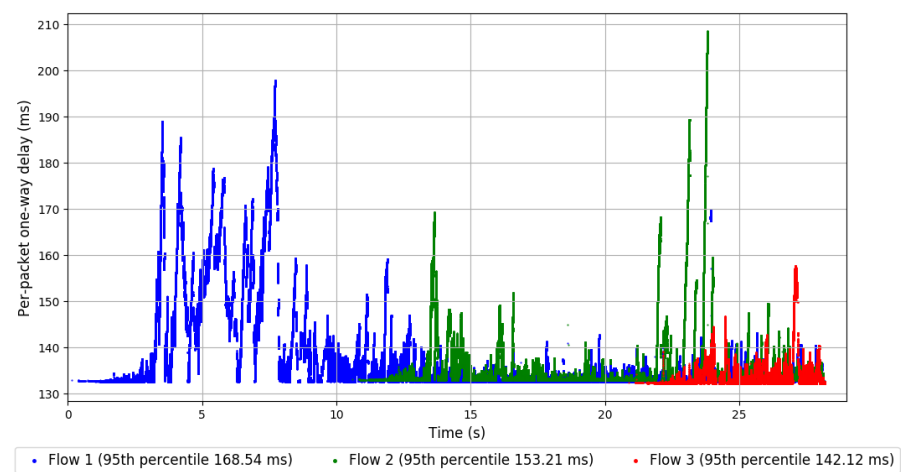
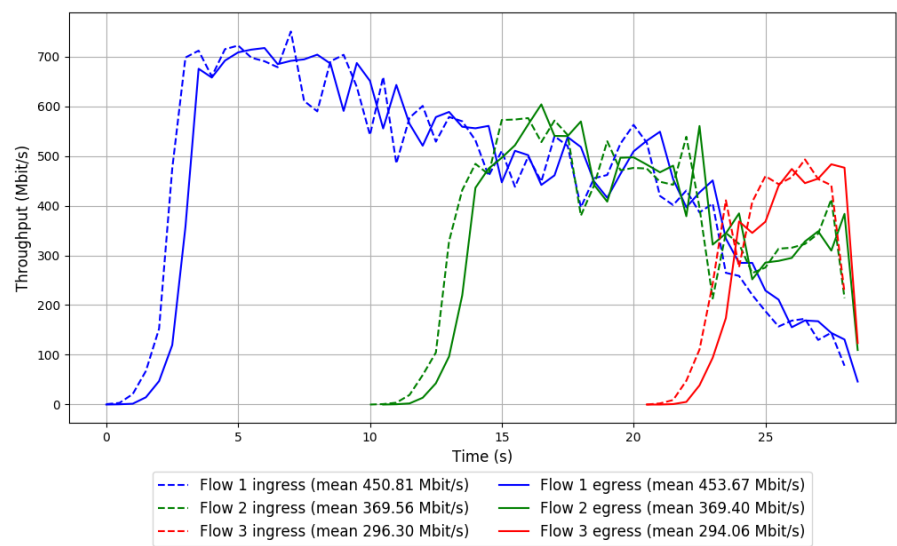


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-09-18 16:34:31  
End at: 2019-09-18 16:35:01  
Local clock offset: -0.266 ms  
Remote clock offset: -0.304 ms

# Below is generated by plot.py at 2019-09-18 20:46:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 761.55 Mbit/s  
95th percentile per-packet one-way delay: 163.991 ms  
Loss rate: 1.11%  
-- Flow 1:  
Average throughput: 453.67 Mbit/s  
95th percentile per-packet one-way delay: 168.544 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 369.40 Mbit/s  
95th percentile per-packet one-way delay: 153.209 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 294.06 Mbit/s  
95th percentile per-packet one-way delay: 142.119 ms  
Loss rate: 4.22%

Run 2: Report of Indigo-MusesC5 — Data Link

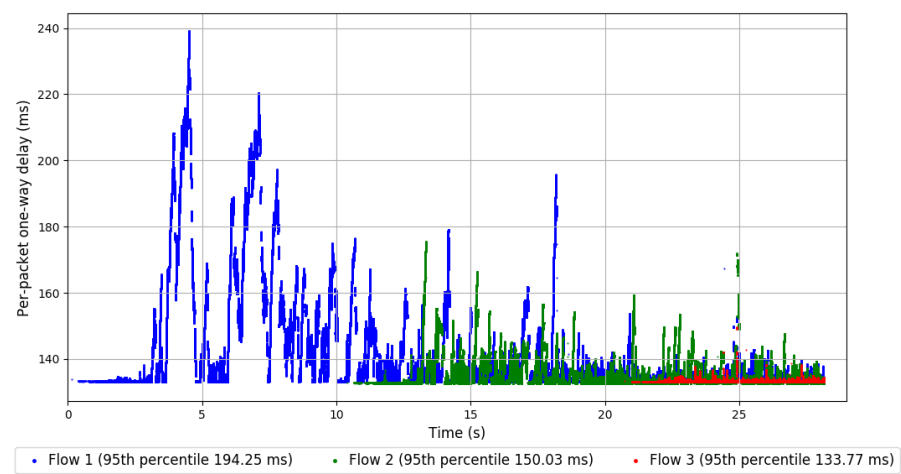
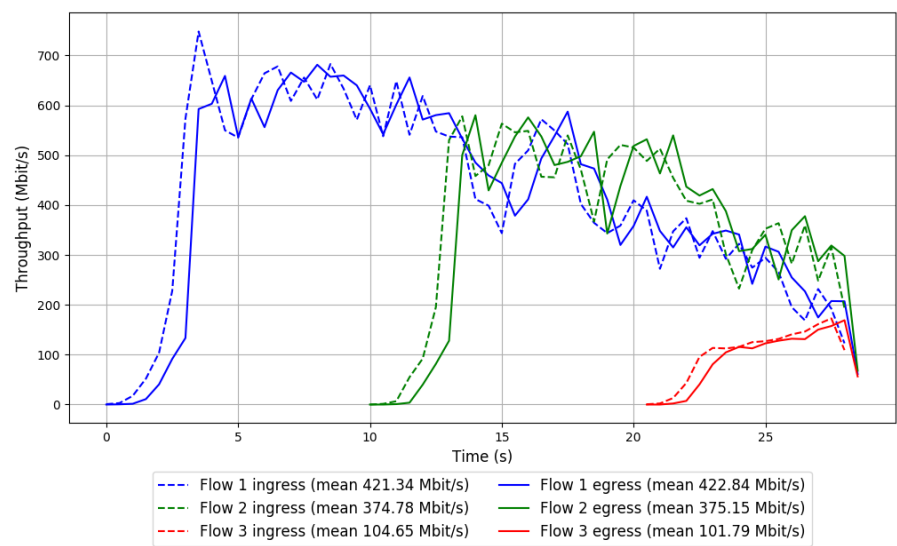


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-09-18 17:18:30  
End at: 2019-09-18 17:19:00  
Local clock offset: 0.091 ms  
Remote clock offset: -0.282 ms

# Below is generated by plot.py at 2019-09-18 20:46:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 687.53 Mbit/s  
95th percentile per-packet one-way delay: 183.623 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 422.84 Mbit/s  
95th percentile per-packet one-way delay: 194.249 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 375.15 Mbit/s  
95th percentile per-packet one-way delay: 150.027 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 101.79 Mbit/s  
95th percentile per-packet one-way delay: 133.766 ms  
Loss rate: 6.19%

Run 3: Report of Indigo-MusesC5 — Data Link

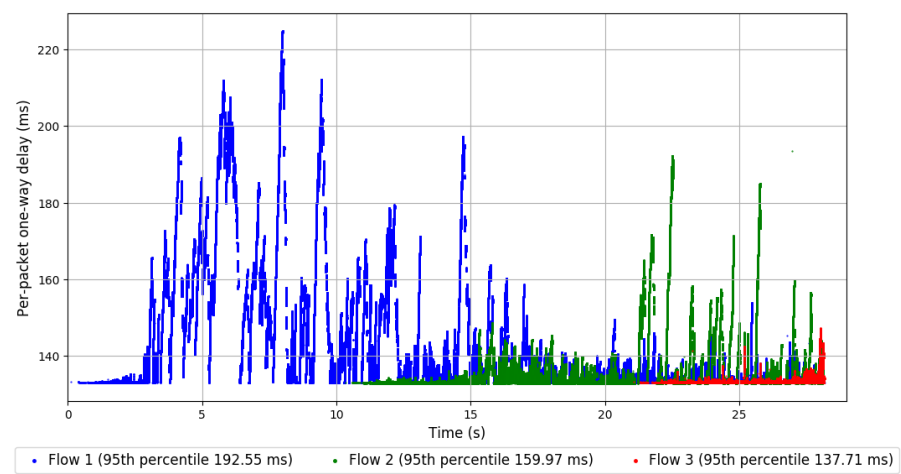
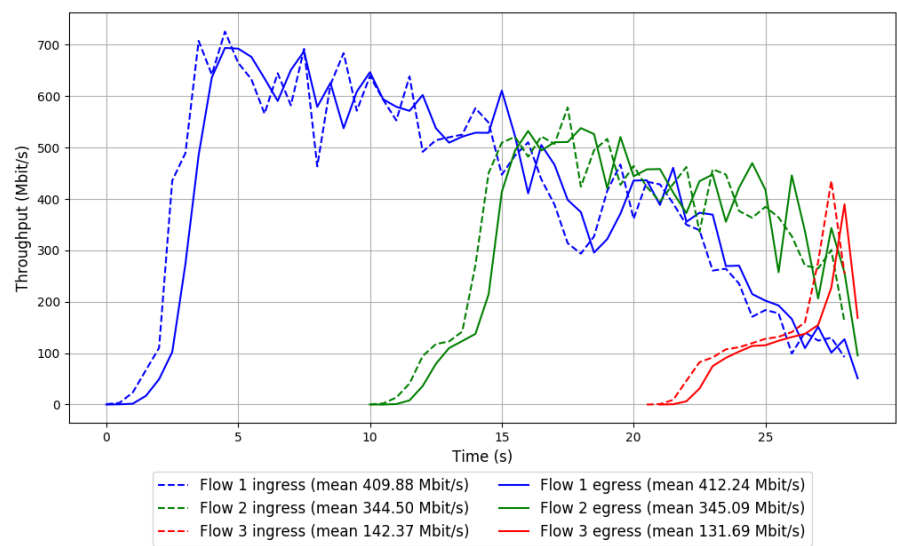


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-09-18 18:02:33  
End at: 2019-09-18 18:03:03  
Local clock offset: -0.043 ms  
Remote clock offset: -0.209 ms

# Below is generated by plot.py at 2019-09-18 20:50:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 665.04 Mbit/s  
95th percentile per-packet one-way delay: 184.641 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 412.24 Mbit/s  
95th percentile per-packet one-way delay: 192.547 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 345.09 Mbit/s  
95th percentile per-packet one-way delay: 159.966 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 131.69 Mbit/s  
95th percentile per-packet one-way delay: 137.709 ms  
Loss rate: 10.82%

Run 4: Report of Indigo-MusesC5 — Data Link

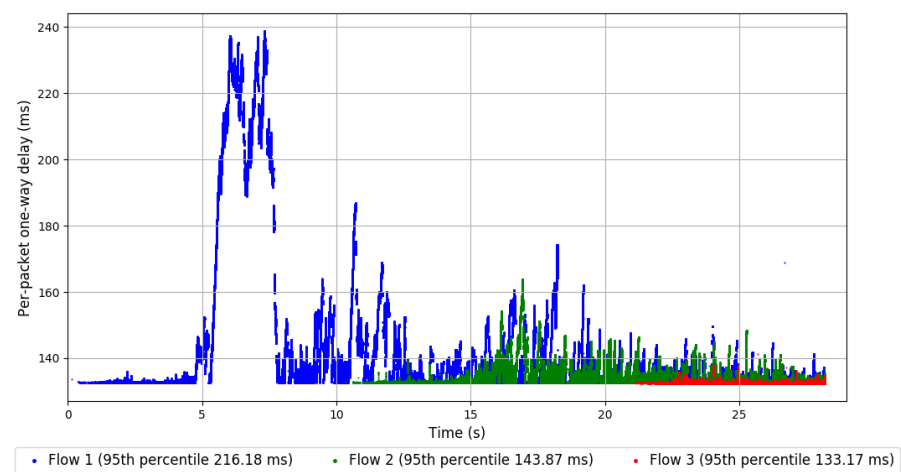
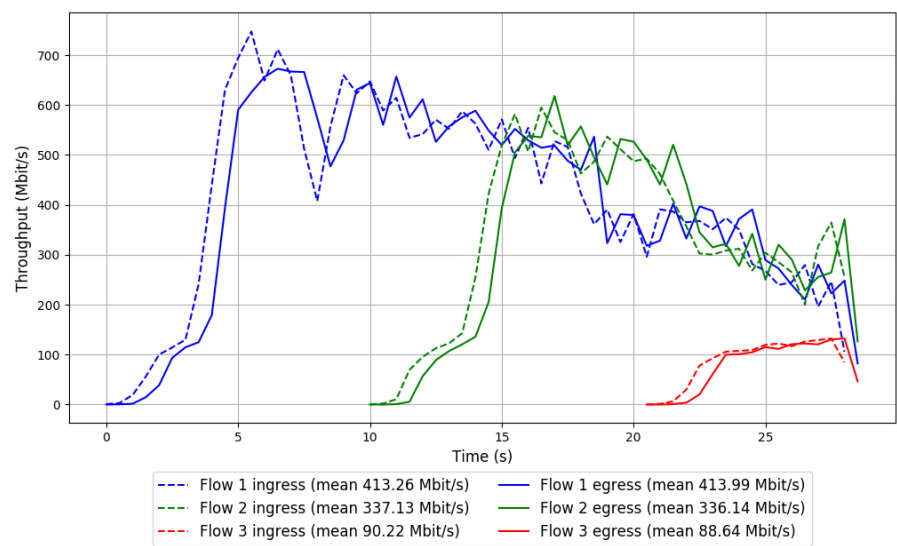


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-09-18 18:46:57  
End at: 2019-09-18 18:47:27  
Local clock offset: -0.498 ms  
Remote clock offset: -0.165 ms

# Below is generated by plot.py at 2019-09-18 20:50:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 650.32 Mbit/s  
95th percentile per-packet one-way delay: 207.561 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 413.99 Mbit/s  
95th percentile per-packet one-way delay: 216.181 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 336.14 Mbit/s  
95th percentile per-packet one-way delay: 143.870 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 88.64 Mbit/s  
95th percentile per-packet one-way delay: 133.173 ms  
Loss rate: 5.22%

Run 5: Report of Indigo-MusesC5 — Data Link



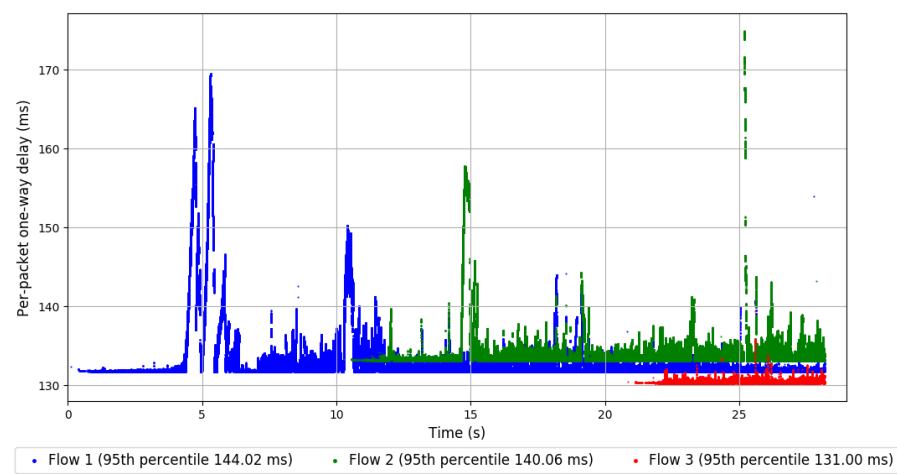
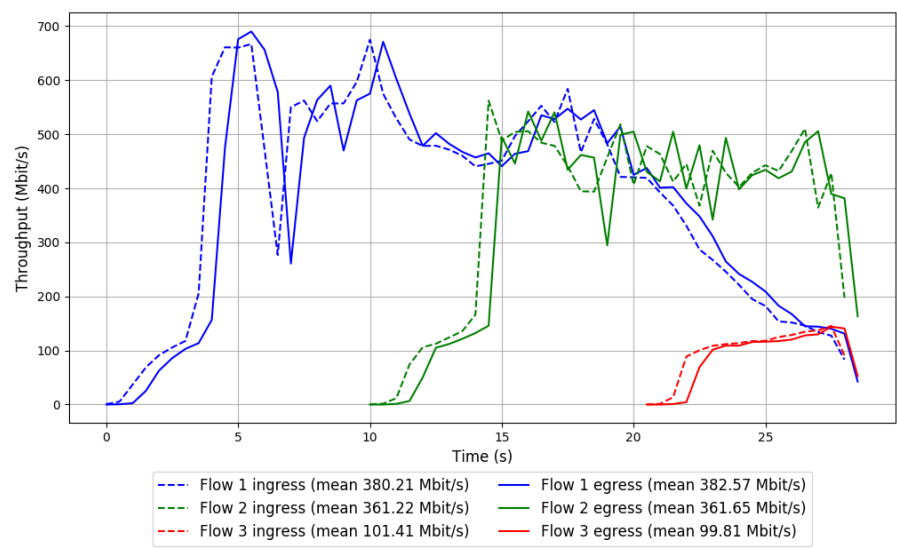


Run 1: Statistics of Indigo-MusesD

Start at: 2019-09-18 15:53:56  
End at: 2019-09-18 15:54:26  
Local clock offset: -0.054 ms  
Remote clock offset: -0.498 ms

# Below is generated by plot.py at 2019-09-18 20:51:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 639.12 Mbit/s  
95th percentile per-packet one-way delay: 142.297 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 382.57 Mbit/s  
95th percentile per-packet one-way delay: 144.016 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 361.65 Mbit/s  
95th percentile per-packet one-way delay: 140.059 ms  
Loss rate: 1.34%  
-- Flow 3:  
Average throughput: 99.81 Mbit/s  
95th percentile per-packet one-way delay: 130.995 ms  
Loss rate: 4.98%

Run 1: Report of Indigo-MusesD — Data Link

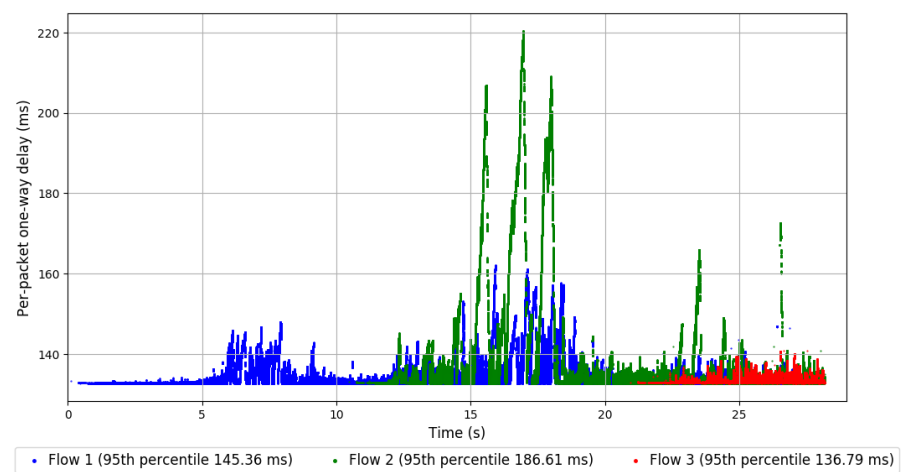
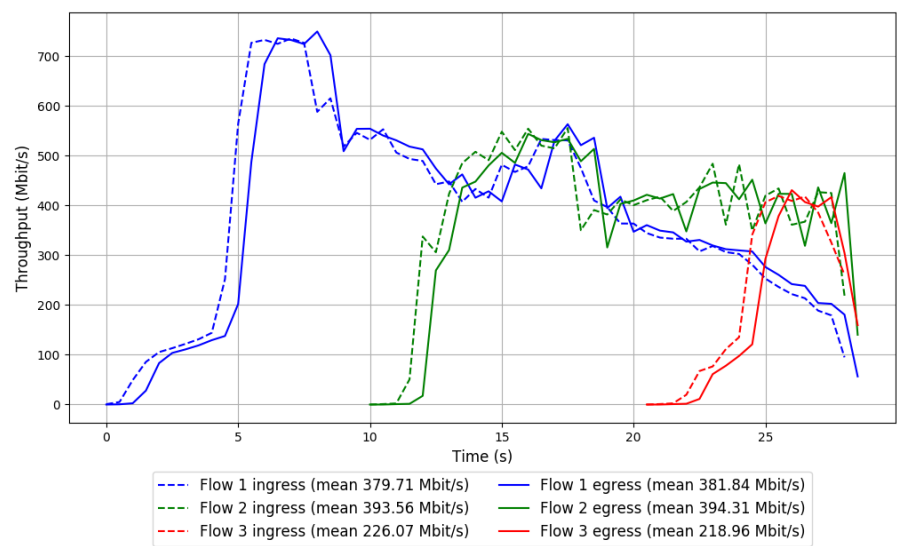


Run 2: Statistics of Indigo-MusesD

Start at: 2019-09-18 16:38:31  
End at: 2019-09-18 16:39:01  
Local clock offset: -0.047 ms  
Remote clock offset: -0.145 ms

# Below is generated by plot.py at 2019-09-18 20:53:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 687.00 Mbit/s  
95th percentile per-packet one-way delay: 156.132 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 381.84 Mbit/s  
95th percentile per-packet one-way delay: 145.361 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 394.31 Mbit/s  
95th percentile per-packet one-way delay: 186.614 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 218.96 Mbit/s  
95th percentile per-packet one-way delay: 136.786 ms  
Loss rate: 6.53%

Run 2: Report of Indigo-MusesD — Data Link



Run 3: Statistics of Indigo-MusesD

Start at: 2019-09-18 17:22:19

End at: 2019-09-18 17:22:49

Local clock offset: -0.265 ms

Remote clock offset: 0.095 ms

# Below is generated by plot.py at 2019-09-18 20:56:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 675.12 Mbit/s

95th percentile per-packet one-way delay: 190.210 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 420.70 Mbit/s

95th percentile per-packet one-way delay: 201.930 ms

Loss rate: 0.60%

-- Flow 2:

Average throughput: 354.57 Mbit/s

95th percentile per-packet one-way delay: 147.677 ms

Loss rate: 1.63%

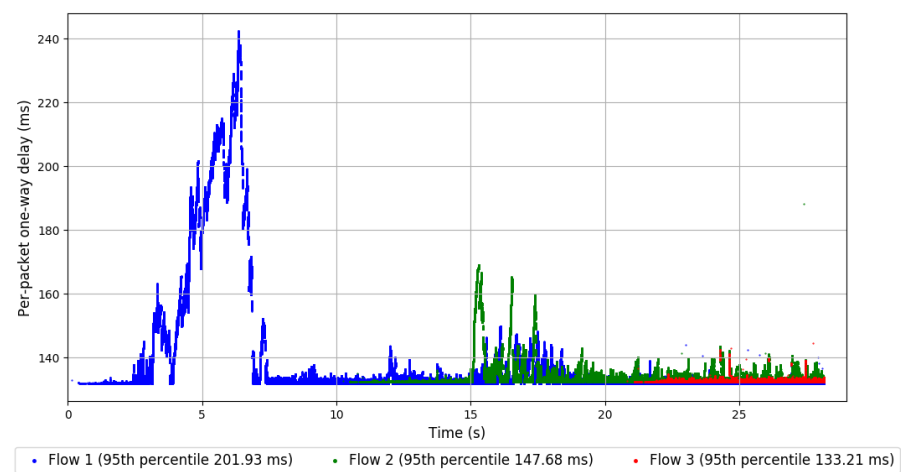
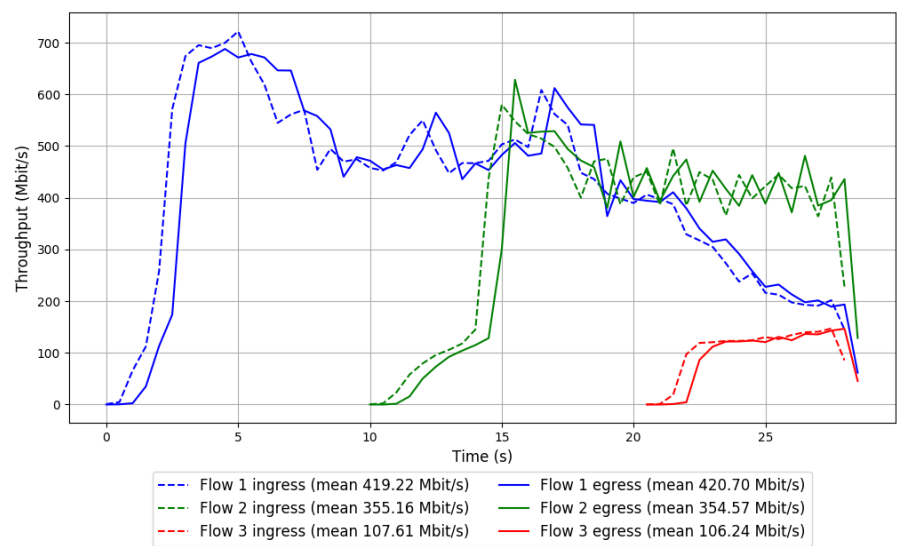
-- Flow 3:

Average throughput: 106.24 Mbit/s

95th percentile per-packet one-way delay: 133.214 ms

Loss rate: 4.76%

Run 3: Report of Indigo-MusesD — Data Link

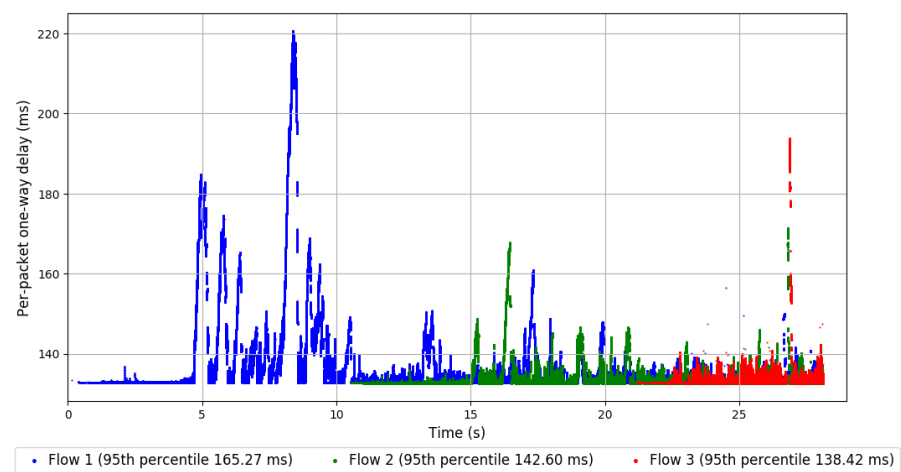
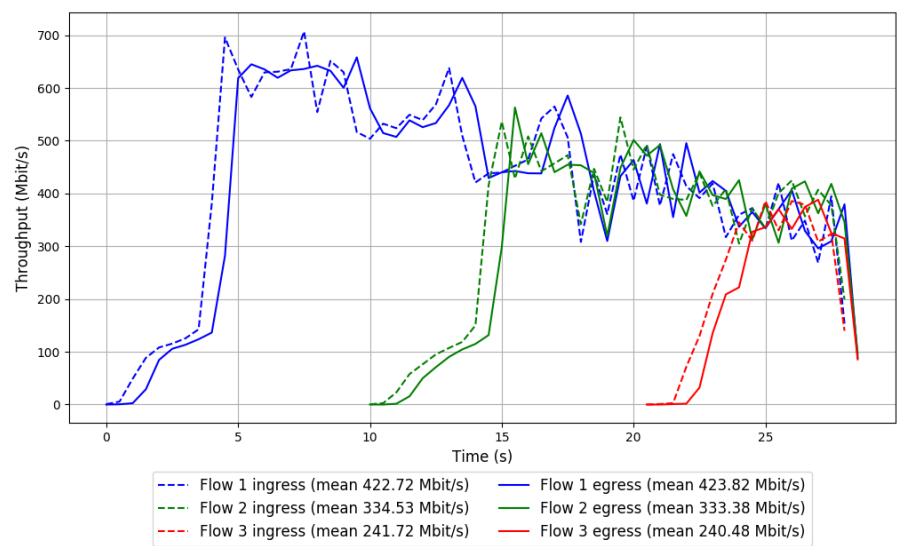


Run 4: Statistics of Indigo-MusesD

Start at: 2019-09-18 18:06:32  
End at: 2019-09-18 18:07:02  
Local clock offset: -0.12 ms  
Remote clock offset: -0.097 ms

# Below is generated by plot.py at 2019-09-18 20:57:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 698.04 Mbit/s  
95th percentile per-packet one-way delay: 157.323 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 423.82 Mbit/s  
95th percentile per-packet one-way delay: 165.274 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 333.38 Mbit/s  
95th percentile per-packet one-way delay: 142.602 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 240.48 Mbit/s  
95th percentile per-packet one-way delay: 138.418 ms  
Loss rate: 3.95%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-09-18 18:50:48

End at: 2019-09-18 18:51:18

Local clock offset: -0.016 ms

Remote clock offset: 0.837 ms

# Below is generated by plot.py at 2019-09-18 20:57:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 647.73 Mbit/s

95th percentile per-packet one-way delay: 166.181 ms

Loss rate: 1.29%

-- Flow 1:

Average throughput: 421.01 Mbit/s

95th percentile per-packet one-way delay: 177.510 ms

Loss rate: 0.85%

-- Flow 2:

Average throughput: 329.09 Mbit/s

95th percentile per-packet one-way delay: 137.906 ms

Loss rate: 1.69%

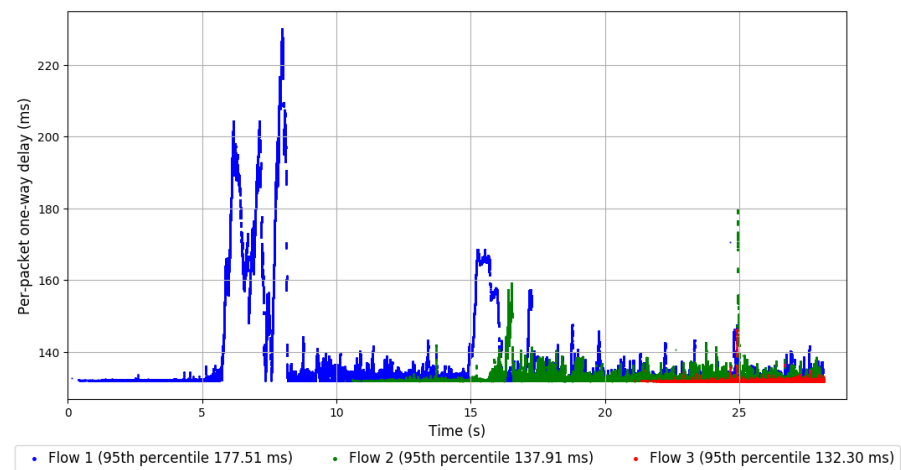
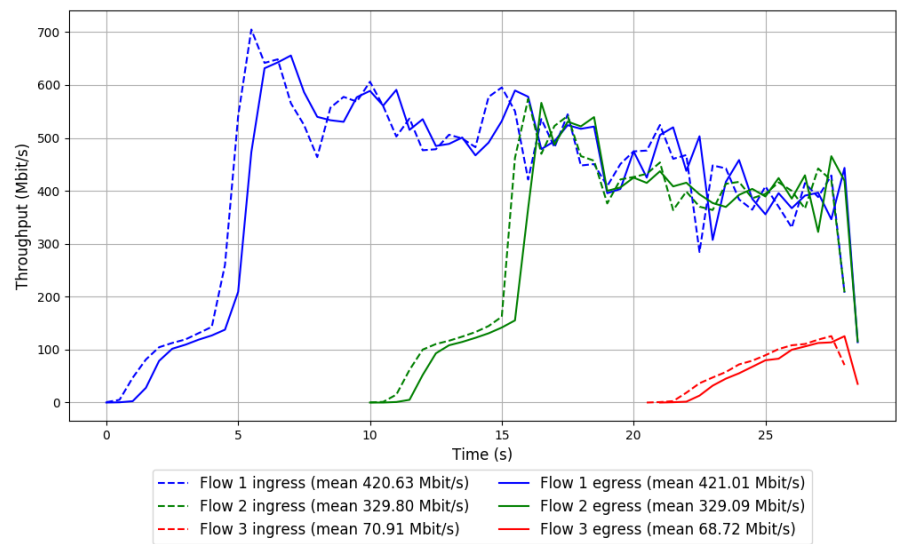
-- Flow 3:

Average throughput: 68.72 Mbit/s

95th percentile per-packet one-way delay: 132.296 ms

Loss rate: 6.61%

Run 5: Report of Indigo-MusesD — Data Link



Run 1: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:11:12

End at: 2019-09-18 16:11:42

Local clock offset: -0.12 ms

Remote clock offset: -0.11 ms

# Below is generated by plot.py at 2019-09-18 21:01:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 825.98 Mbit/s

95th percentile per-packet one-way delay: 210.368 ms

Loss rate: 1.63%

-- Flow 1:

Average throughput: 500.88 Mbit/s

95th percentile per-packet one-way delay: 215.567 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 419.73 Mbit/s

95th percentile per-packet one-way delay: 195.094 ms

Loss rate: 0.89%

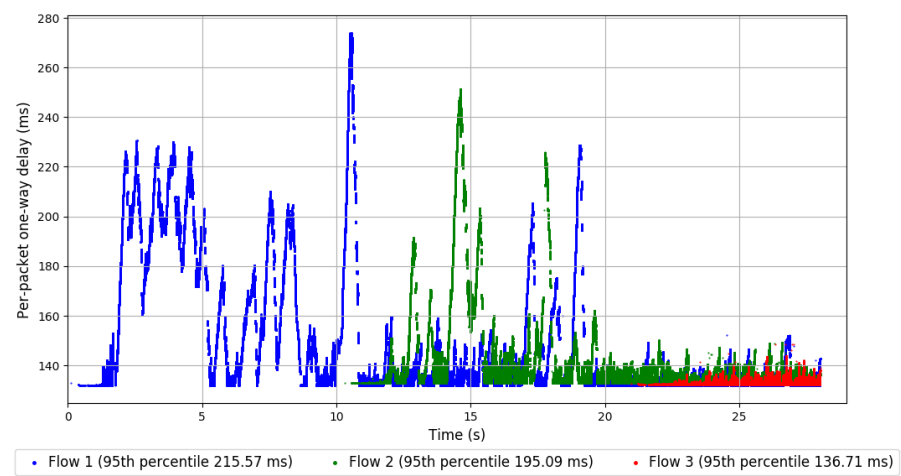
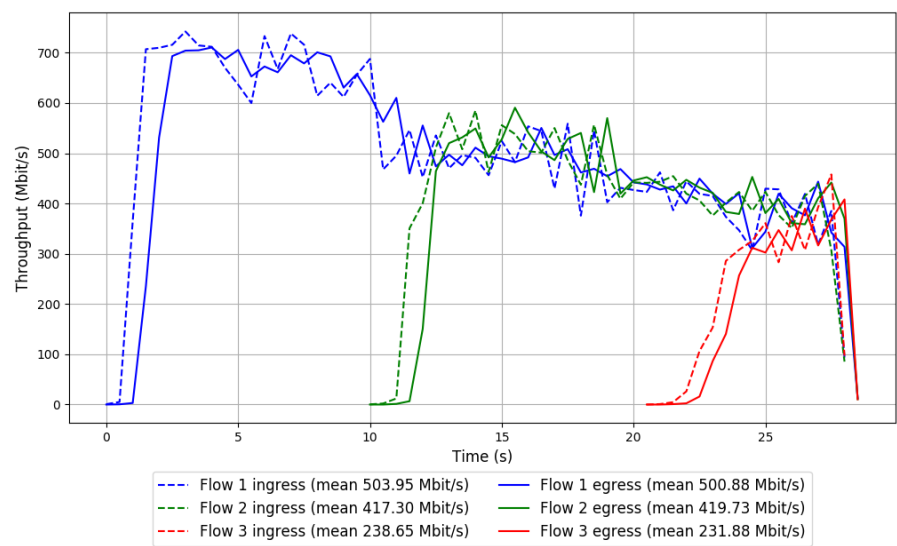
-- Flow 3:

Average throughput: 231.88 Mbit/s

95th percentile per-packet one-way delay: 136.706 ms

Loss rate: 6.34%

Run 1: Report of Indigo-MusesT — Data Link

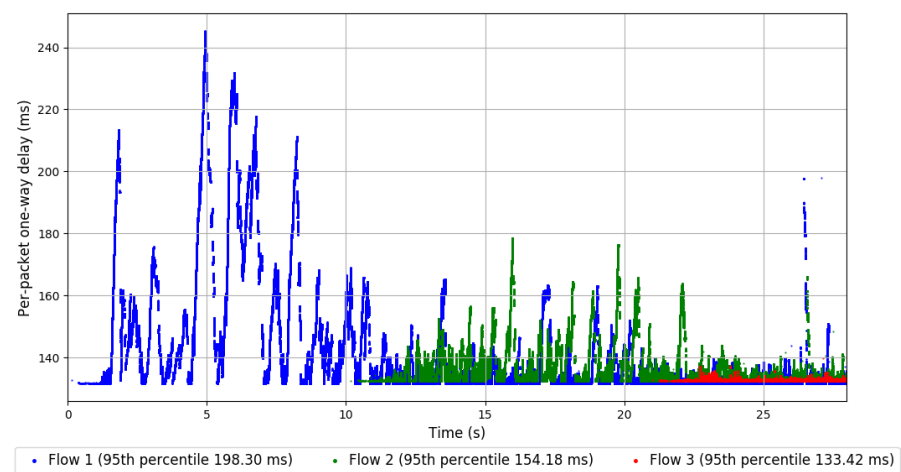
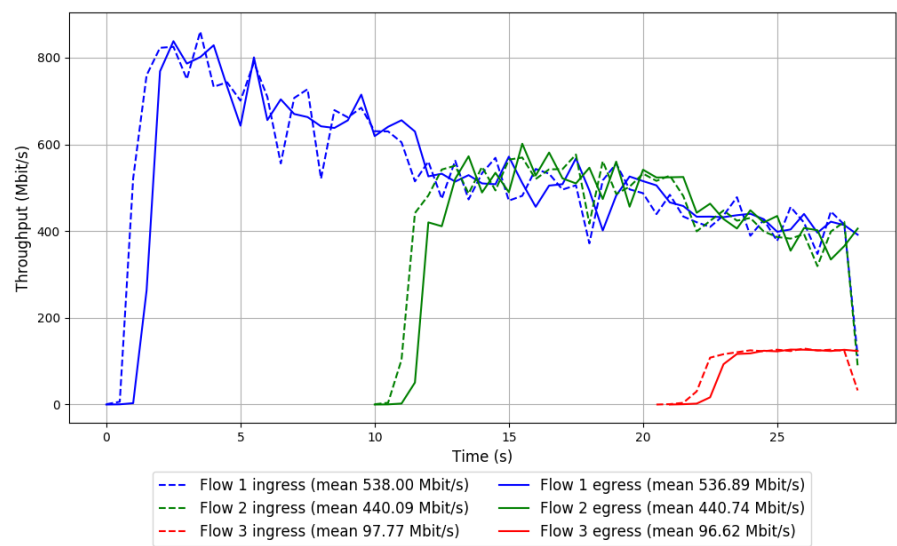


Run 2: Statistics of Indigo-MusesT

Start at: 2019-09-18 16:55:32  
End at: 2019-09-18 16:56:02  
Local clock offset: -0.511 ms  
Remote clock offset: -0.166 ms

# Below is generated by plot.py at 2019-09-18 21:05:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 842.80 Mbit/s  
95th percentile per-packet one-way delay: 185.480 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 536.89 Mbit/s  
95th percentile per-packet one-way delay: 198.300 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 440.74 Mbit/s  
95th percentile per-packet one-way delay: 154.178 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 96.62 Mbit/s  
95th percentile per-packet one-way delay: 133.419 ms  
Loss rate: 4.87%

Run 2: Report of Indigo-MusesT — Data Link

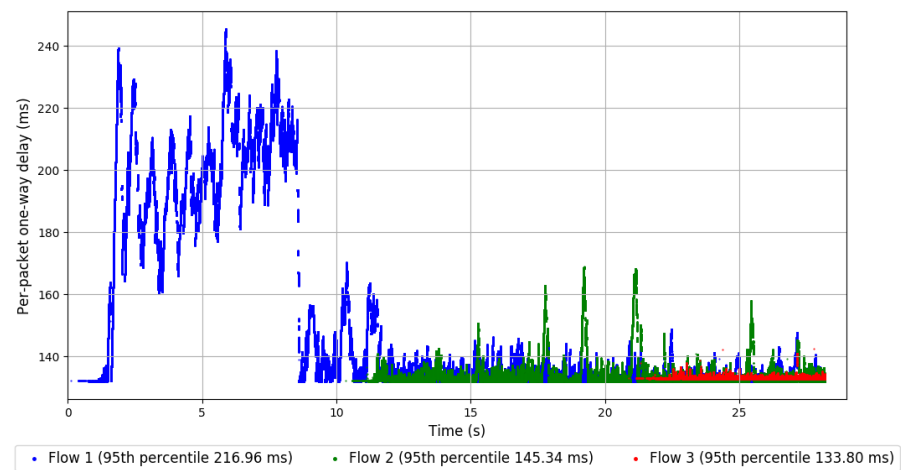
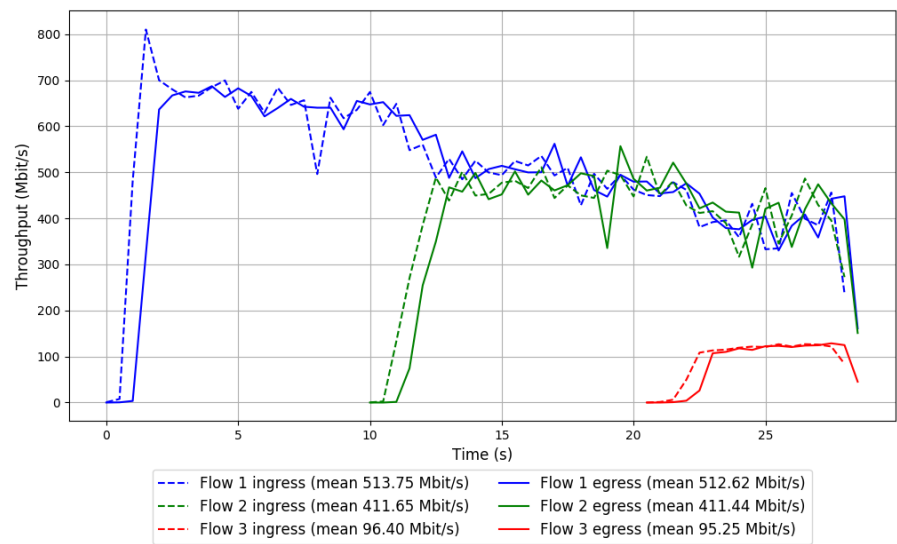


Run 3: Statistics of Indigo-MusesT

Start at: 2019-09-18 17:39:42  
End at: 2019-09-18 17:40:12  
Local clock offset: -0.267 ms  
Remote clock offset: -0.258 ms

# Below is generated by plot.py at 2019-09-18 21:05:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 799.32 Mbit/s  
95th percentile per-packet one-way delay: 212.077 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 512.62 Mbit/s  
95th percentile per-packet one-way delay: 216.958 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 411.44 Mbit/s  
95th percentile per-packet one-way delay: 145.341 ms  
Loss rate: 1.52%  
-- Flow 3:  
Average throughput: 95.25 Mbit/s  
95th percentile per-packet one-way delay: 133.804 ms  
Loss rate: 4.66%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

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

End at: 2019-09-18 18:24:33

Local clock offset: 0.212 ms

Remote clock offset: 1.195 ms

# Below is generated by plot.py at 2019-09-18 21:05:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 774.39 Mbit/s

95th percentile per-packet one-way delay: 204.316 ms

Loss rate: 1.99%

-- Flow 1:

Average throughput: 482.87 Mbit/s

95th percentile per-packet one-way delay: 222.492 ms

Loss rate: 1.97%

-- Flow 2:

Average throughput: 421.73 Mbit/s

95th percentile per-packet one-way delay: 157.732 ms

Loss rate: 1.76%

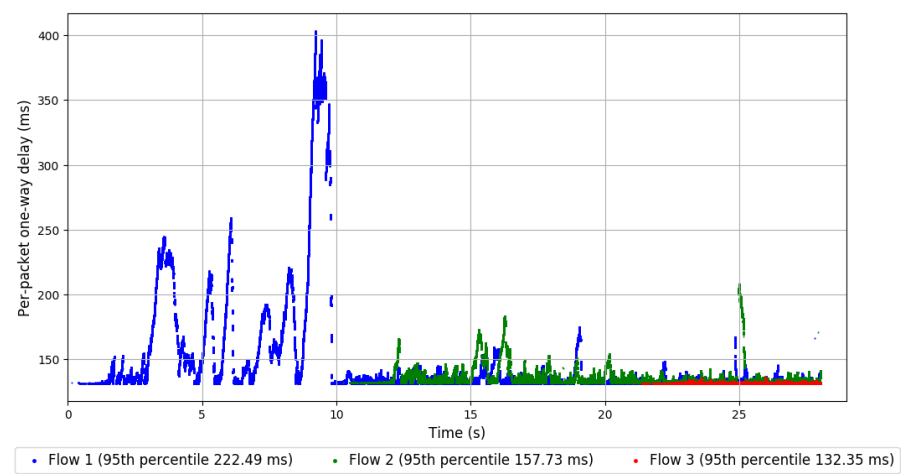
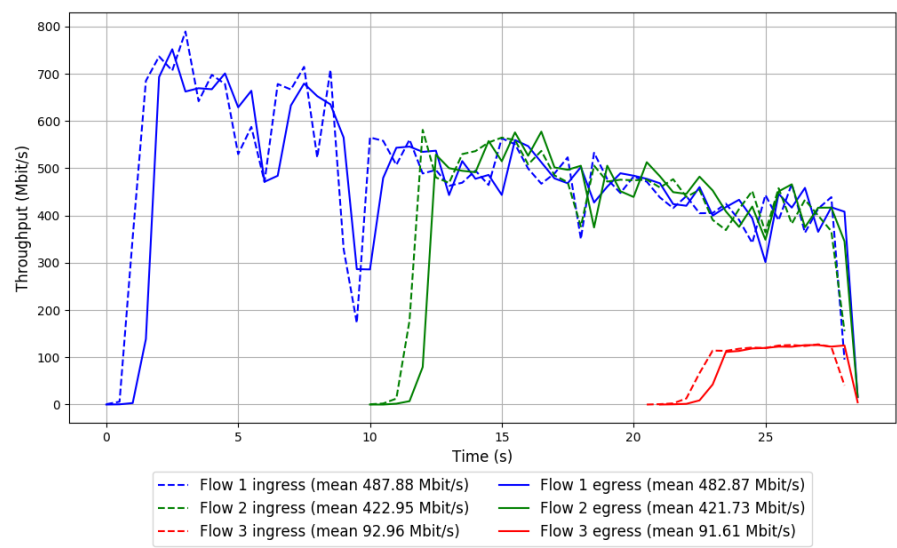
-- Flow 3:

Average throughput: 91.61 Mbit/s

95th percentile per-packet one-way delay: 132.349 ms

Loss rate: 5.10%

Run 4: Report of Indigo-MusesT — Data Link

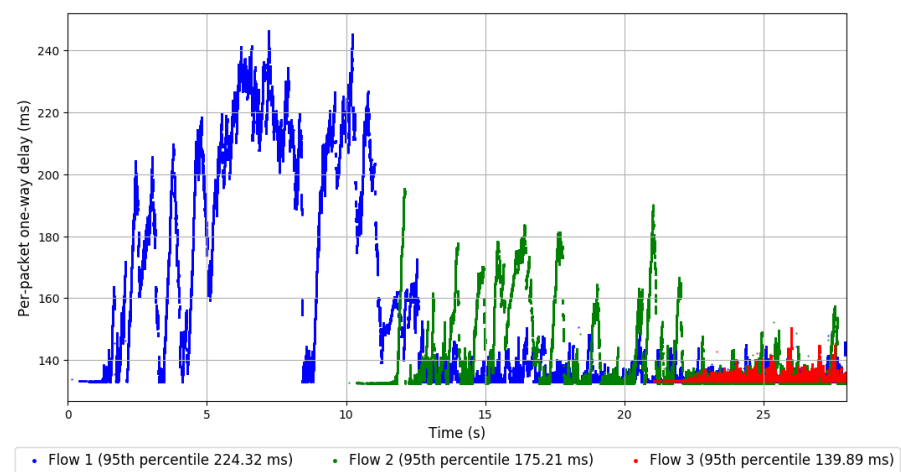
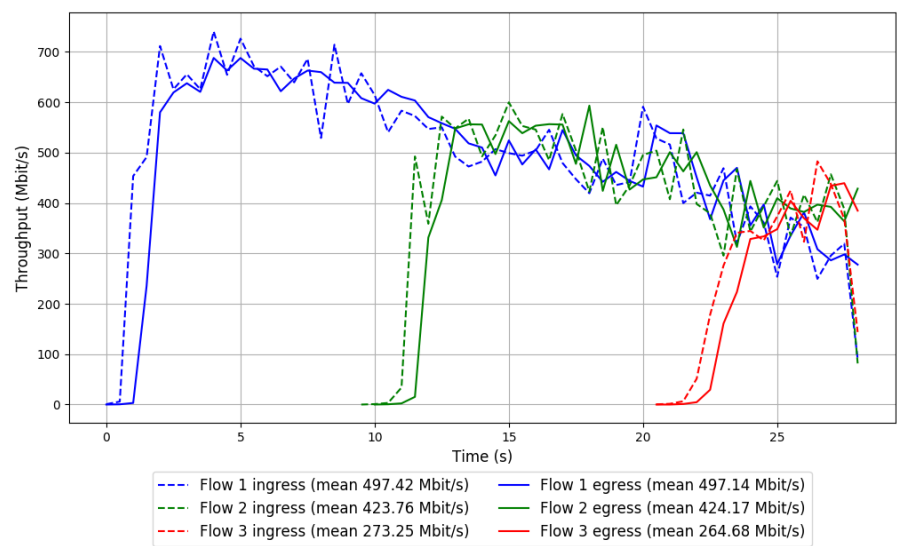


Run 5: Statistics of Indigo-MusesT

Start at: 2019-09-18 19:08:08  
End at: 2019-09-18 19:08:38  
Local clock offset: 0.205 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-09-18 21:07:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 837.92 Mbit/s  
95th percentile per-packet one-way delay: 217.937 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 497.14 Mbit/s  
95th percentile per-packet one-way delay: 224.324 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 424.17 Mbit/s  
95th percentile per-packet one-way delay: 175.209 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 264.68 Mbit/s  
95th percentile per-packet one-way delay: 139.888 ms  
Loss rate: 6.60%

Run 5: Report of Indigo-MusesT — Data Link

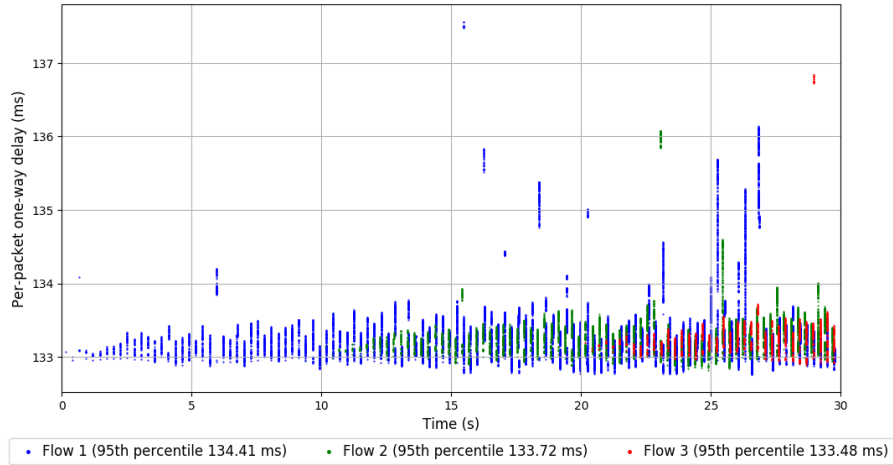
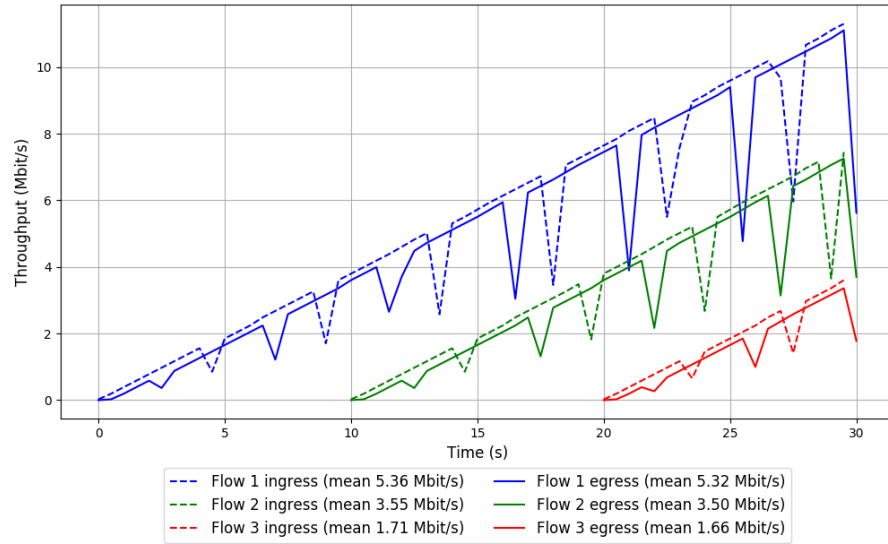


Run 1: Statistics of LEDBAT

Start at: 2019-09-18 16:26:10  
End at: 2019-09-18 16:26:40  
Local clock offset: -0.072 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-09-18 21:07:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.16 Mbit/s  
95th percentile per-packet one-way delay: 133.962 ms  
Loss rate: 2.27%  
-- Flow 1:  
Average throughput: 5.32 Mbit/s  
95th percentile per-packet one-way delay: 134.409 ms  
Loss rate: 1.77%  
-- Flow 2:  
Average throughput: 3.50 Mbit/s  
95th percentile per-packet one-way delay: 133.716 ms  
Loss rate: 2.67%  
-- Flow 3:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 133.480 ms  
Loss rate: 5.42%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-09-18 17:10:14

End at: 2019-09-18 17:10:44

Local clock offset: -0.509 ms

Remote clock offset: -0.13 ms

# Below is generated by plot.py at 2019-09-18 21:07:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.03 Mbit/s

95th percentile per-packet one-way delay: 133.323 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 5.24 Mbit/s

95th percentile per-packet one-way delay: 133.341 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 133.299 ms

Loss rate: 2.71%

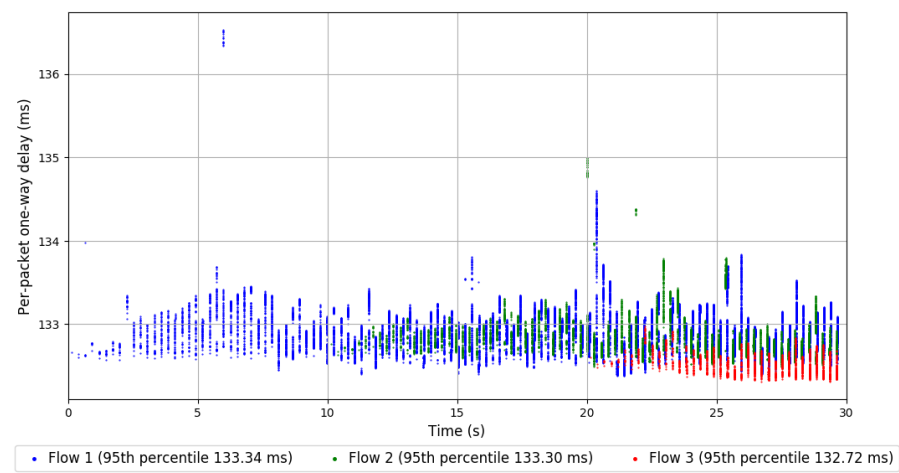
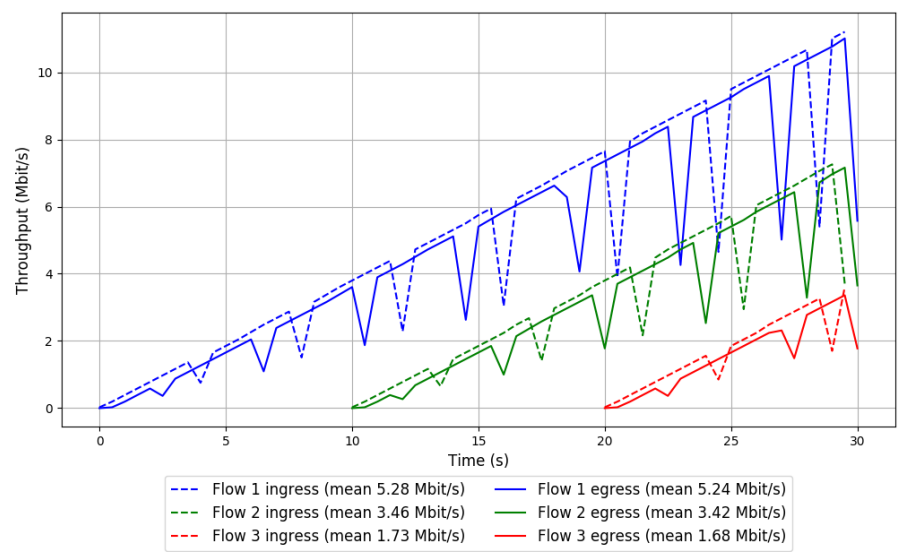
-- Flow 3:

Average throughput: 1.68 Mbit/s

95th percentile per-packet one-way delay: 132.720 ms

Loss rate: 5.42%

Run 2: Report of LEDBAT — Data Link





Run 3: Statistics of LEDBAT

Start at: 2019-09-18 17:54:38

End at: 2019-09-18 17:55:08

Local clock offset: -0.037 ms

Remote clock offset: 1.301 ms

# Below is generated by plot.py at 2019-09-18 21:07:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.00 Mbit/s

95th percentile per-packet one-way delay: 132.525 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 132.628 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 132.413 ms

Loss rate: 2.71%

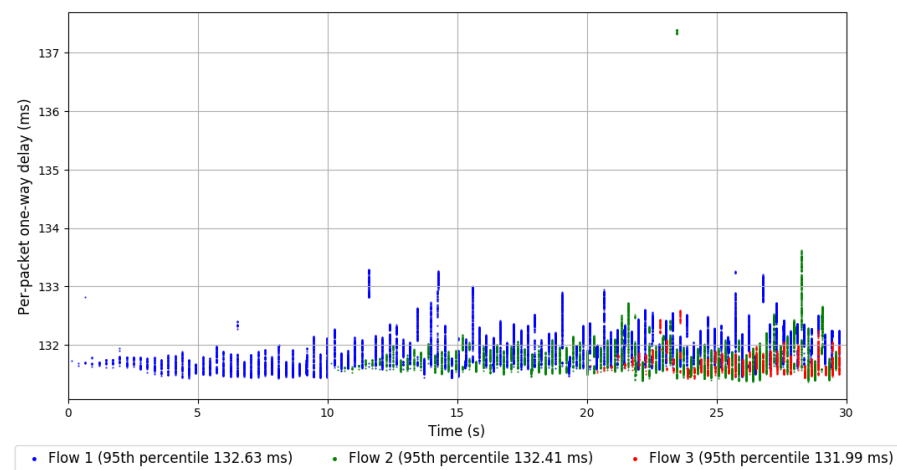
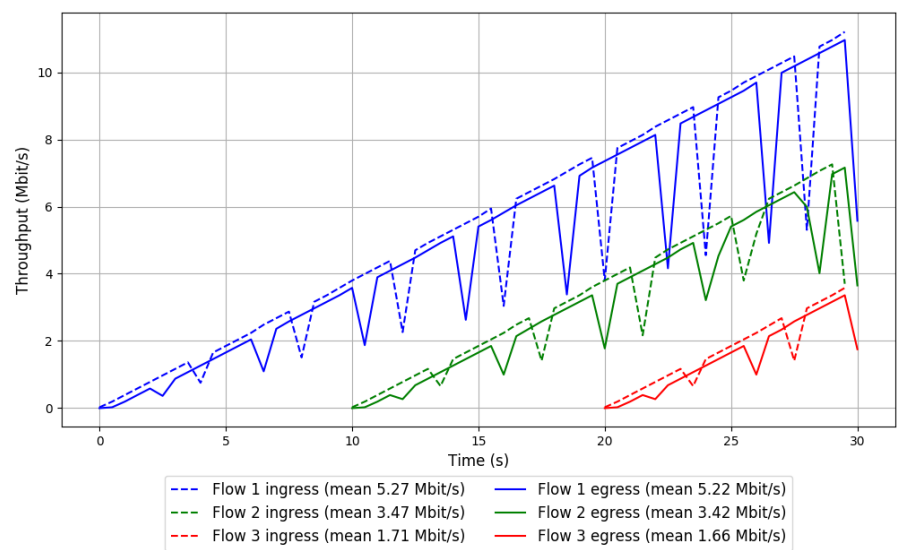
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 131.993 ms

Loss rate: 5.43%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-09-18 18:38:52

End at: 2019-09-18 18:39:22

Local clock offset: -0.061 ms

Remote clock offset: 0.48 ms

# Below is generated by plot.py at 2019-09-18 21:07:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.07 Mbit/s

95th percentile per-packet one-way delay: 132.950 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 5.30 Mbit/s

95th percentile per-packet one-way delay: 132.343 ms

Loss rate: 1.77%

-- Flow 2:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 133.174 ms

Loss rate: 2.71%

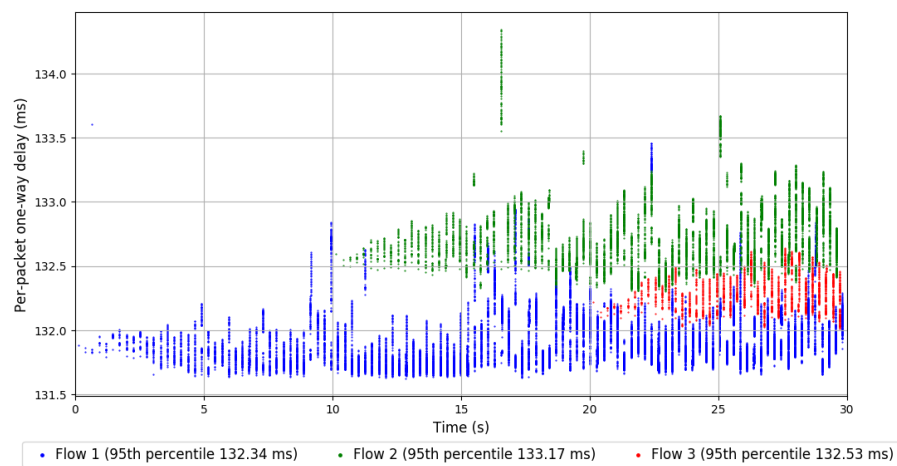
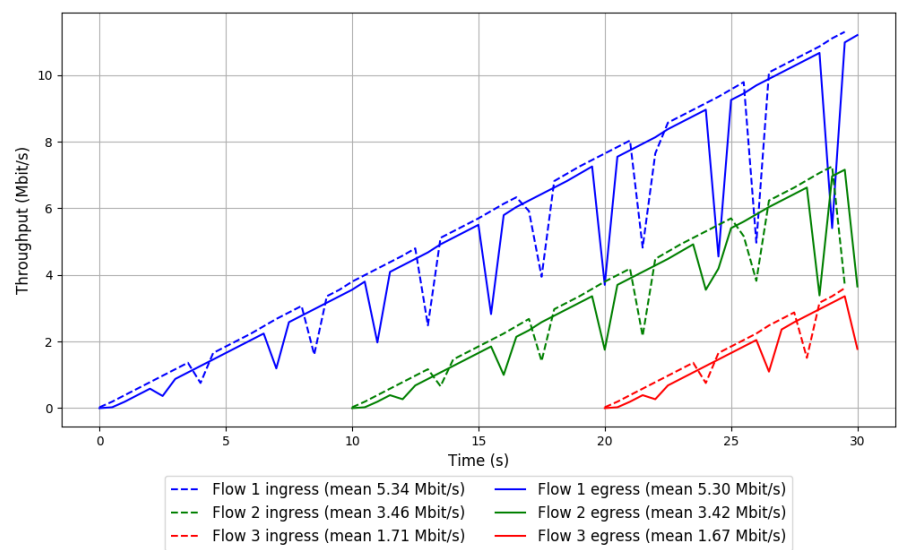
-- Flow 3:

Average throughput: 1.67 Mbit/s

95th percentile per-packet one-way delay: 132.534 ms

Loss rate: 5.42%

Run 4: Report of LEDBAT — Data Link

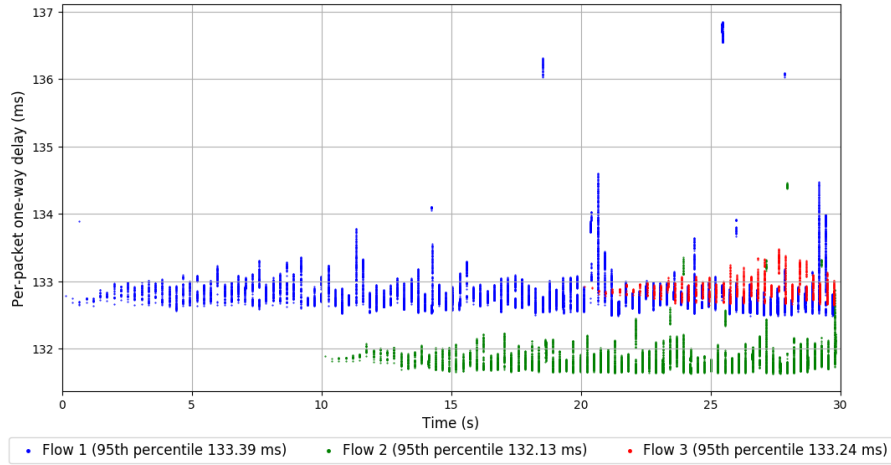
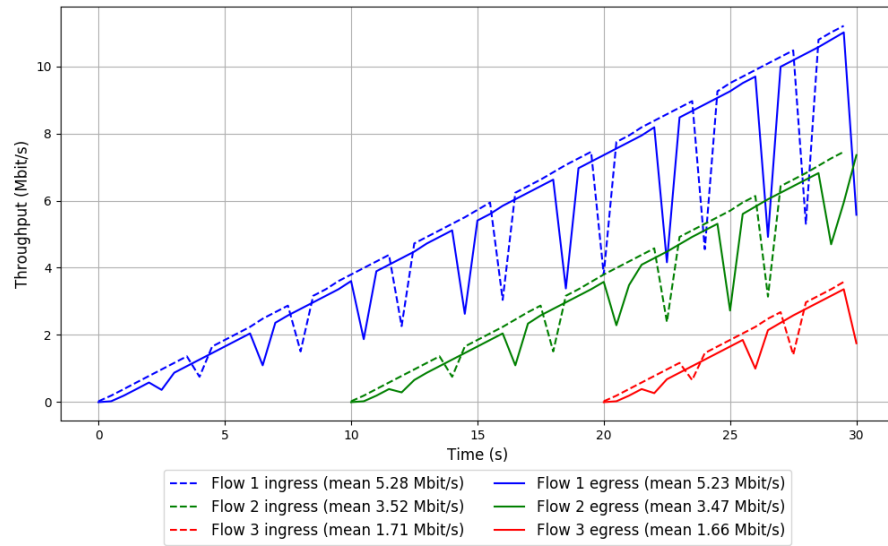


Run 5: Statistics of LEDBAT

Start at: 2019-09-18 19:23:01  
End at: 2019-09-18 19:23:31  
Local clock offset: -0.41 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2019-09-18 21:07:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.05 Mbit/s  
95th percentile per-packet one-way delay: 133.257 ms  
Loss rate: 2.29%  
-- Flow 1:  
Average throughput: 5.23 Mbit/s  
95th percentile per-packet one-way delay: 133.387 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 3.47 Mbit/s  
95th percentile per-packet one-way delay: 132.130 ms  
Loss rate: 2.67%  
-- Flow 3:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 133.238 ms  
Loss rate: 5.42%

# Run 5: Report of LEDBAT — Data Link

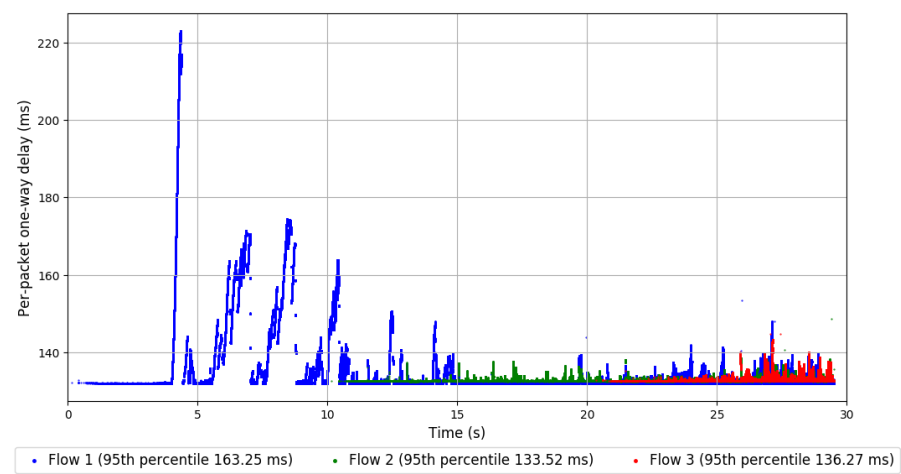
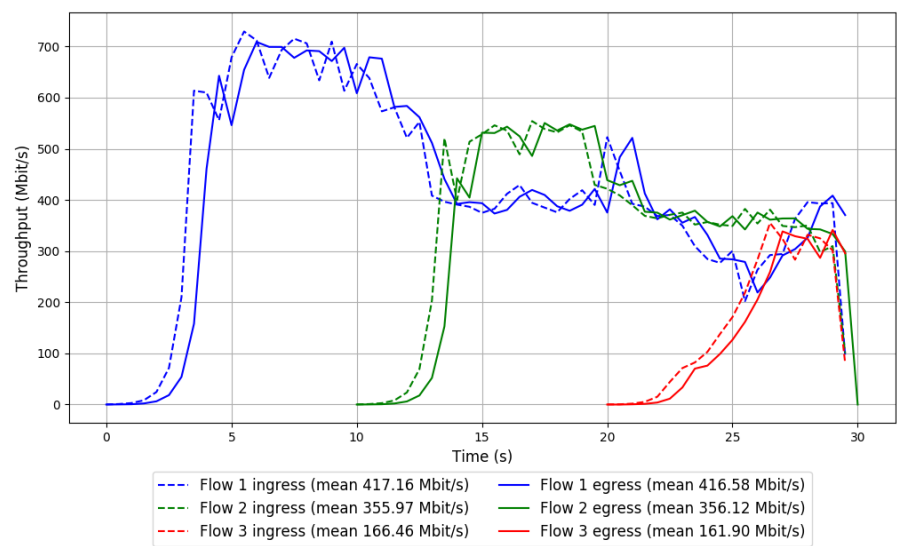


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 16:03:46  
End at: 2019-09-18 16:04:16  
Local clock offset: -0.343 ms  
Remote clock offset: -0.199 ms

# Below is generated by plot.py at 2019-09-18 21:10:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 701.50 Mbit/s  
95th percentile per-packet one-way delay: 156.685 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 416.58 Mbit/s  
95th percentile per-packet one-way delay: 163.254 ms  
Loss rate: 1.02%  
-- Flow 2:  
Average throughput: 356.12 Mbit/s  
95th percentile per-packet one-way delay: 133.524 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 161.90 Mbit/s  
95th percentile per-packet one-way delay: 136.270 ms  
Loss rate: 5.47%

Run 1: Report of Muses\_DecisionTree — Data Link



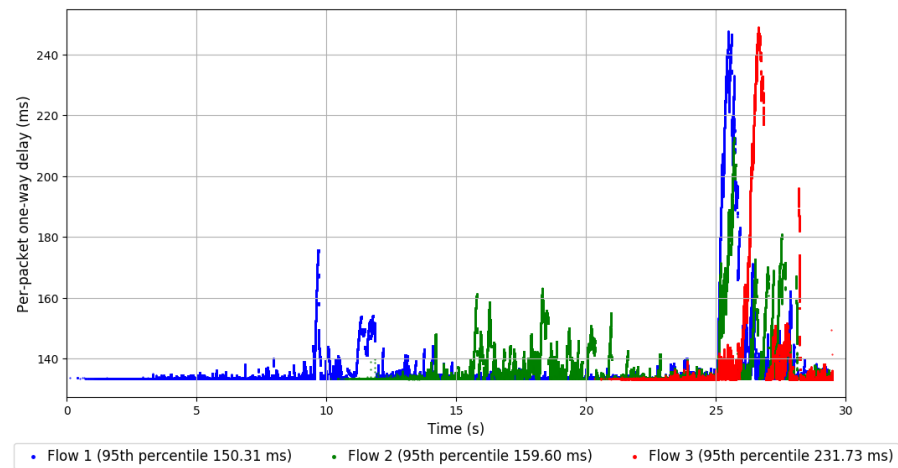
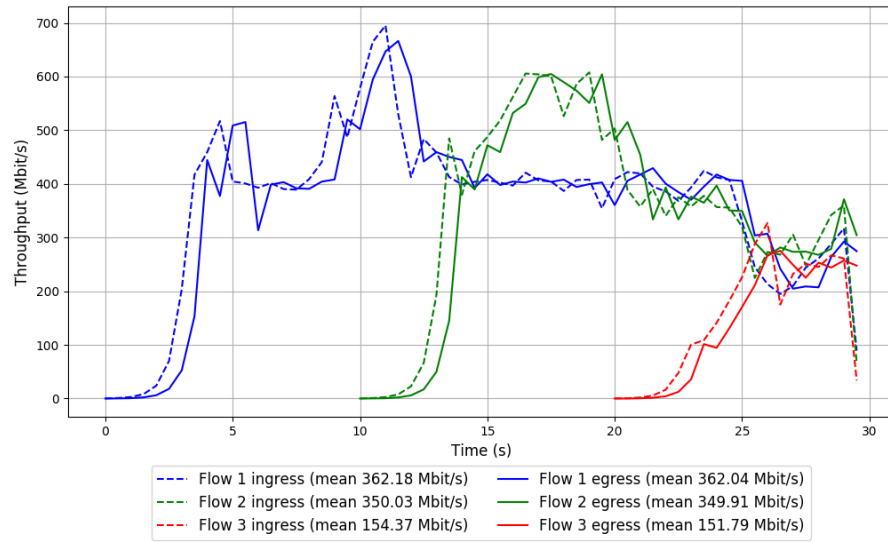


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 16:48:08  
End at: 2019-09-18 16:48:38  
Local clock offset: 0.328 ms  
Remote clock offset: -0.251 ms

# Below is generated by plot.py at 2019-09-18 21:10:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 639.75 Mbit/s  
95th percentile per-packet one-way delay: 157.561 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 362.04 Mbit/s  
95th percentile per-packet one-way delay: 150.305 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 349.91 Mbit/s  
95th percentile per-packet one-way delay: 159.602 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 151.79 Mbit/s  
95th percentile per-packet one-way delay: 231.731 ms  
Loss rate: 4.44%

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

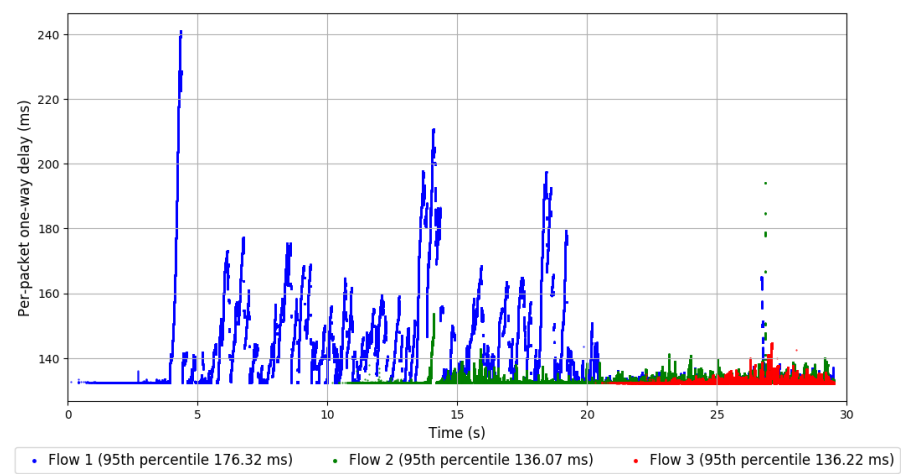
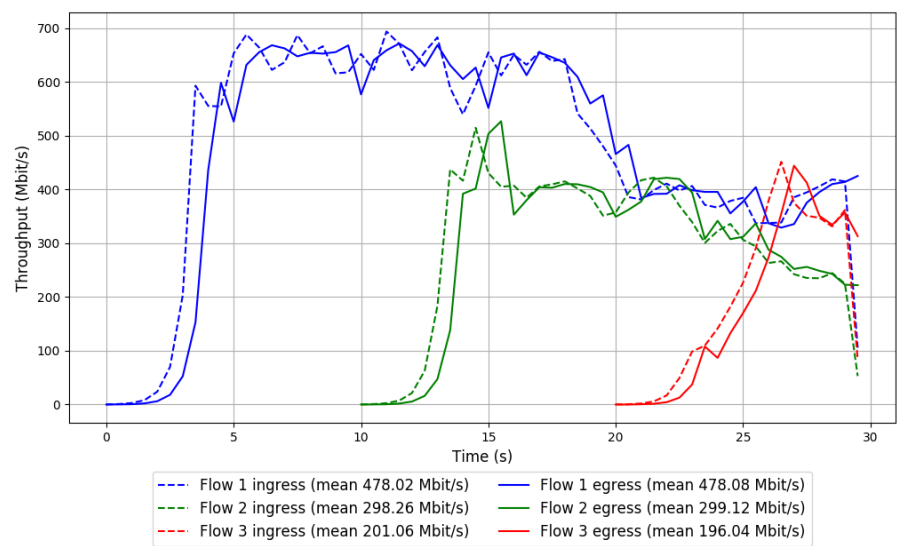


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 17:32:06  
End at: 2019-09-18 17:32:36  
Local clock offset: -0.486 ms  
Remote clock offset: -0.131 ms

# Below is generated by plot.py at 2019-09-18 21:10:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 736.08 Mbit/s  
95th percentile per-packet one-way delay: 168.871 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 478.08 Mbit/s  
95th percentile per-packet one-way delay: 176.322 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 299.12 Mbit/s  
95th percentile per-packet one-way delay: 136.069 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 196.04 Mbit/s  
95th percentile per-packet one-way delay: 136.225 ms  
Loss rate: 5.24%

Run 3: Report of Muses\_DecisionTree — Data Link

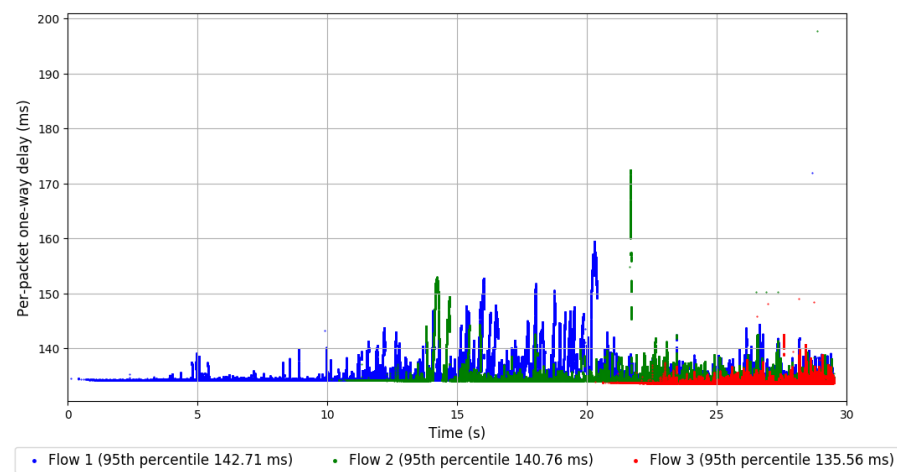
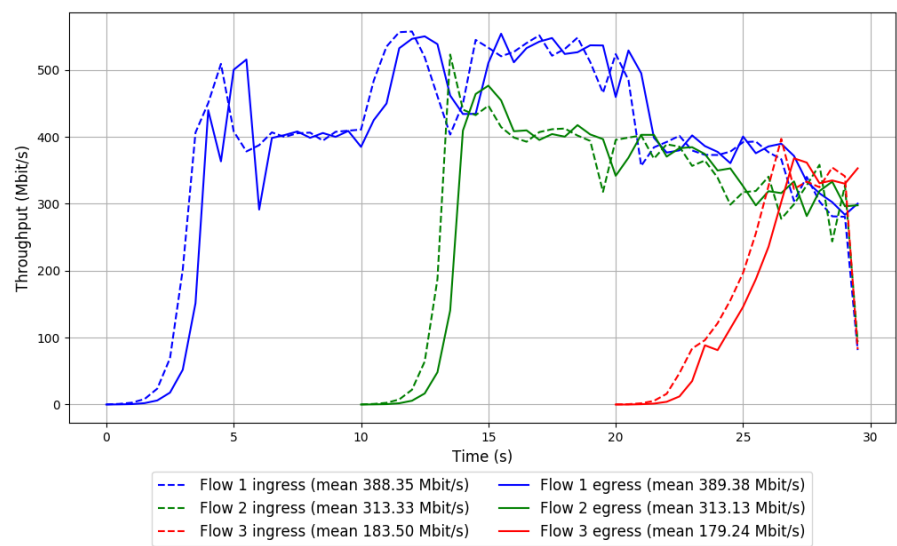


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 18:16:29  
End at: 2019-09-18 18:16:59  
Local clock offset: 0.318 ms  
Remote clock offset: -1.168 ms

# Below is generated by plot.py at 2019-09-18 21:12:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 651.40 Mbit/s  
95th percentile per-packet one-way delay: 141.843 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 389.38 Mbit/s  
95th percentile per-packet one-way delay: 142.707 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 313.13 Mbit/s  
95th percentile per-packet one-way delay: 140.756 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 179.24 Mbit/s  
95th percentile per-packet one-way delay: 135.561 ms  
Loss rate: 5.07%

Run 4: Report of Muses\_DecisionTree — Data Link

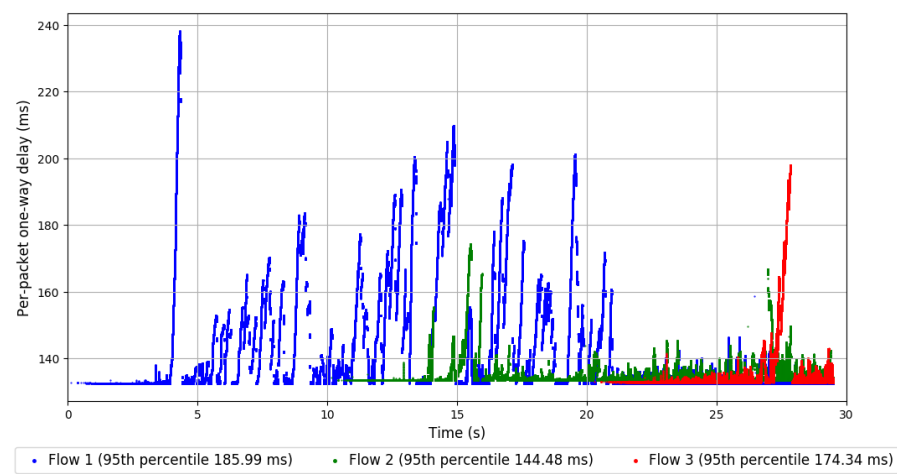
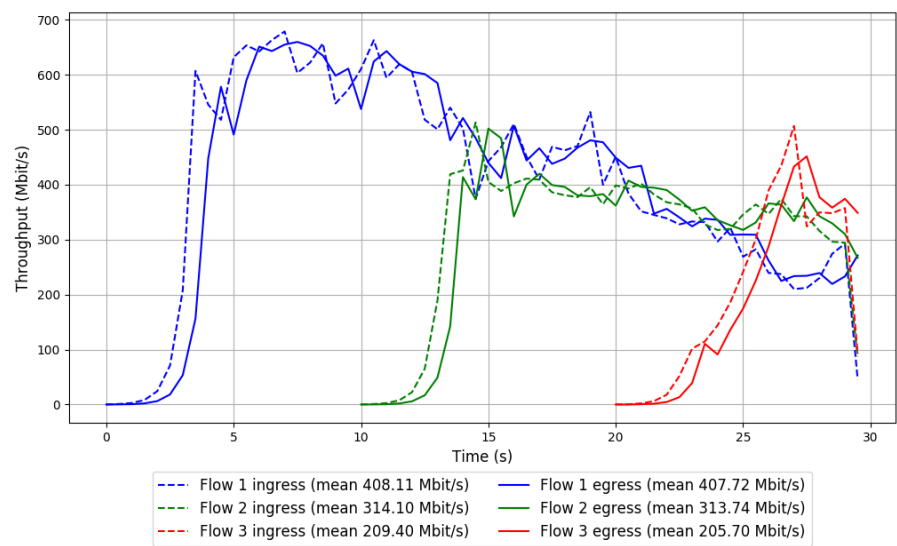


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-09-18 19:00:37  
End at: 2019-09-18 19:01:07  
Local clock offset: -0.087 ms  
Remote clock offset: -0.784 ms

# Below is generated by plot.py at 2019-09-18 21:17:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 678.73 Mbit/s  
95th percentile per-packet one-way delay: 177.638 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 407.72 Mbit/s  
95th percentile per-packet one-way delay: 185.991 ms  
Loss rate: 1.01%  
-- Flow 2:  
Average throughput: 313.74 Mbit/s  
95th percentile per-packet one-way delay: 144.476 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 205.70 Mbit/s  
95th percentile per-packet one-way delay: 174.341 ms  
Loss rate: 4.52%

Run 5: Report of Muses\_DecisionTree — Data Link



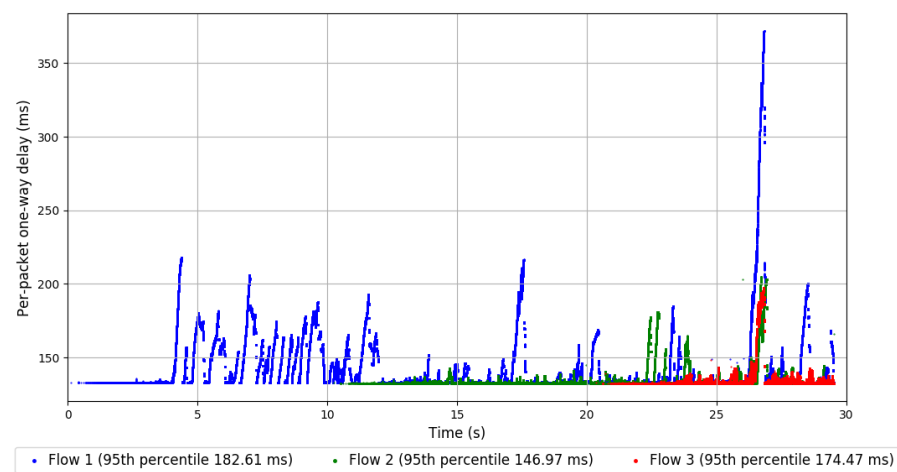
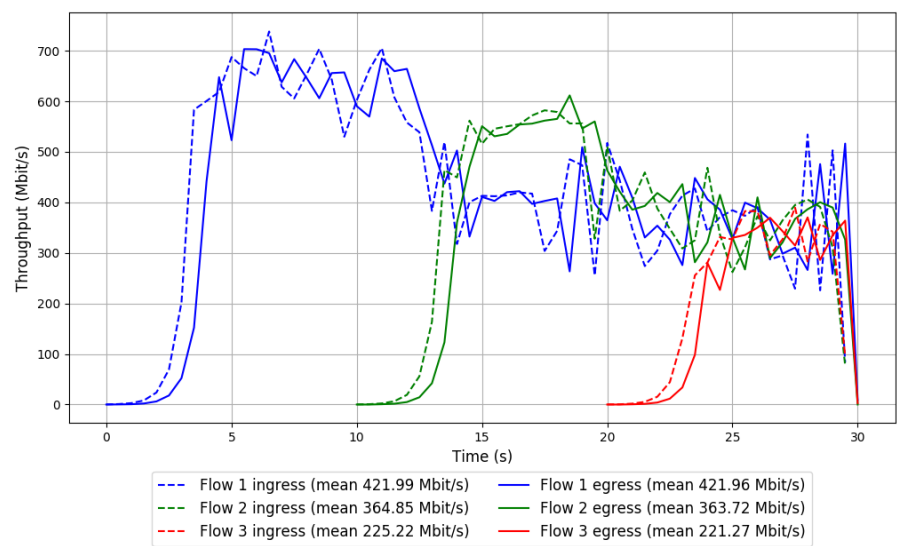


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 15:51:54  
End at: 2019-09-18 15:52:24  
Local clock offset: -0.313 ms  
Remote clock offset: -0.237 ms

# Below is generated by plot.py at 2019-09-18 21:18:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 729.42 Mbit/s  
95th percentile per-packet one-way delay: 177.531 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 421.96 Mbit/s  
95th percentile per-packet one-way delay: 182.608 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 363.72 Mbit/s  
95th percentile per-packet one-way delay: 146.968 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 221.27 Mbit/s  
95th percentile per-packet one-way delay: 174.470 ms  
Loss rate: 4.50%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

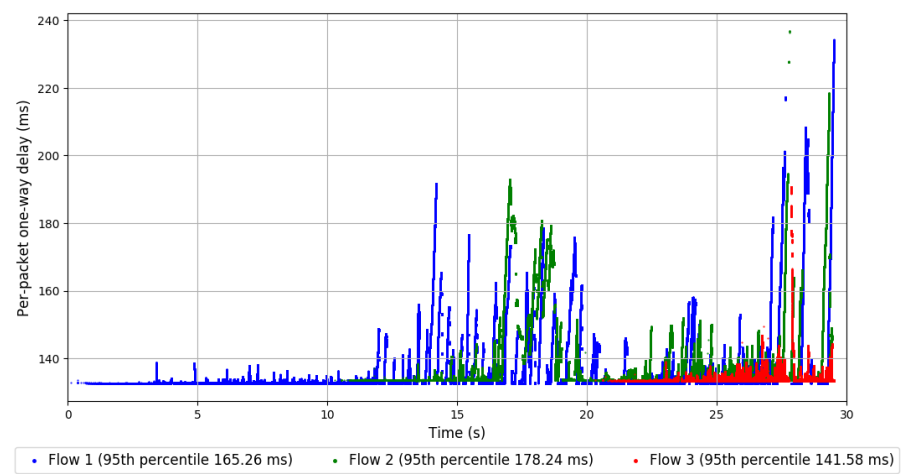
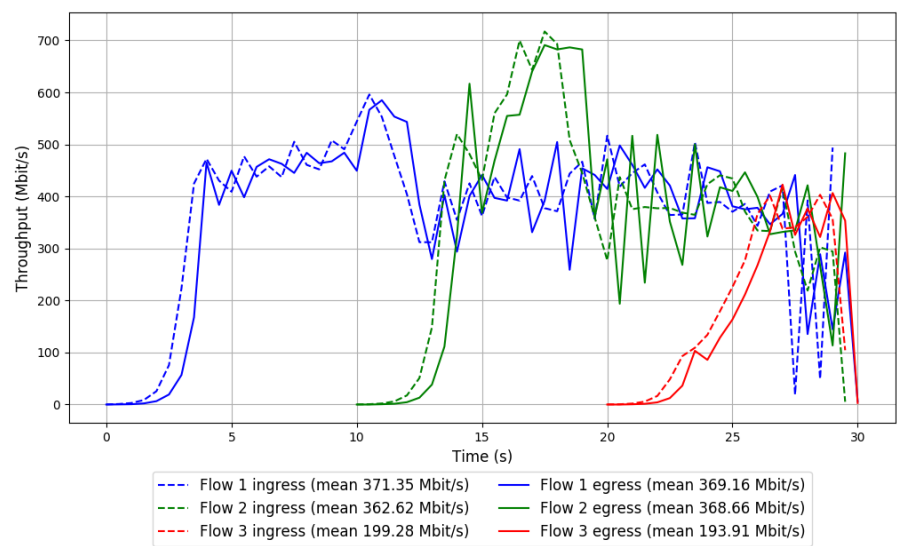


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 16:36:32  
End at: 2019-09-18 16:37:02  
Local clock offset: 0.192 ms  
Remote clock offset: -0.504 ms

# Below is generated by plot.py at 2019-09-18 21:18:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 670.30 Mbit/s  
95th percentile per-packet one-way delay: 171.317 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 369.16 Mbit/s  
95th percentile per-packet one-way delay: 165.263 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 368.66 Mbit/s  
95th percentile per-packet one-way delay: 178.238 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 193.91 Mbit/s  
95th percentile per-packet one-way delay: 141.579 ms  
Loss rate: 5.41%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

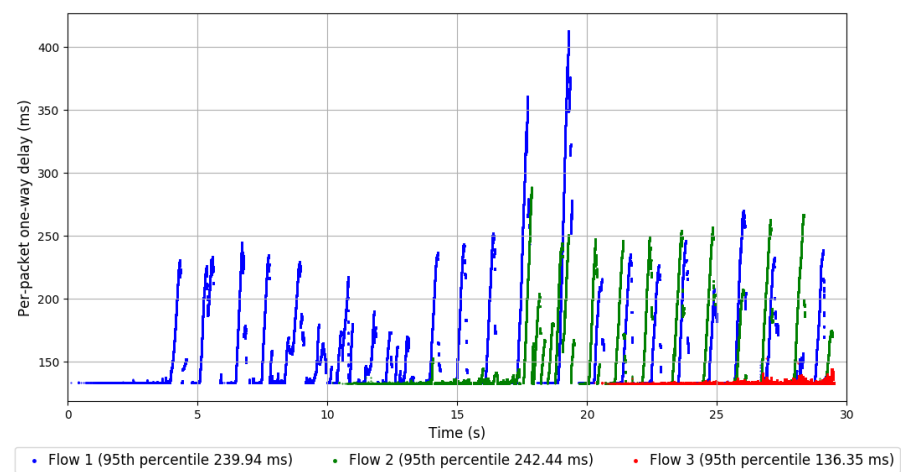
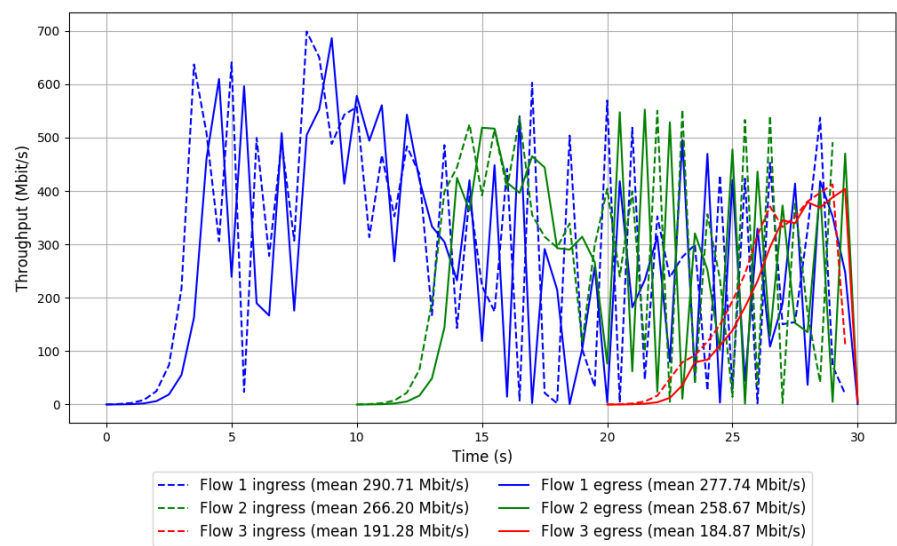


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 17:20:29  
End at: 2019-09-18 17:20:59  
Local clock offset: -0.293 ms  
Remote clock offset: -0.142 ms

# Below is generated by plot.py at 2019-09-18 21:18:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 505.76 Mbit/s  
95th percentile per-packet one-way delay: 238.980 ms  
Loss rate: 4.67%  
-- Flow 1:  
Average throughput: 277.74 Mbit/s  
95th percentile per-packet one-way delay: 239.936 ms  
Loss rate: 5.32%  
-- Flow 2:  
Average throughput: 258.67 Mbit/s  
95th percentile per-packet one-way delay: 242.444 ms  
Loss rate: 3.10%  
-- Flow 3:  
Average throughput: 184.87 Mbit/s  
95th percentile per-packet one-way delay: 136.352 ms  
Loss rate: 6.06%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 18:04:30

End at: 2019-09-18 18:05:00

Local clock offset: -0.037 ms

Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2019-09-18 21:22:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 717.83 Mbit/s

95th percentile per-packet one-way delay: 178.618 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 404.00 Mbit/s

95th percentile per-packet one-way delay: 188.432 ms

Loss rate: 1.70%

-- Flow 2:

Average throughput: 344.94 Mbit/s

95th percentile per-packet one-way delay: 145.591 ms

Loss rate: 1.71%

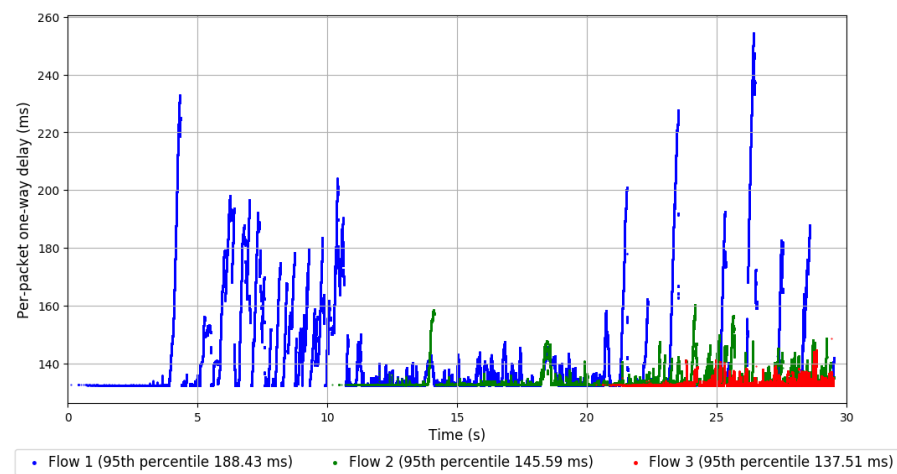
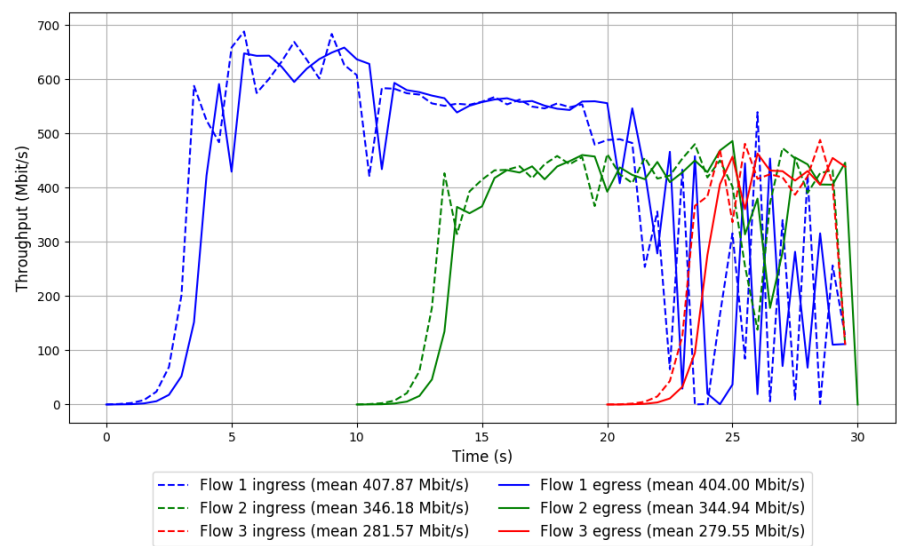
-- Flow 3:

Average throughput: 279.55 Mbit/s

95th percentile per-packet one-way delay: 137.507 ms

Loss rate: 3.59%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



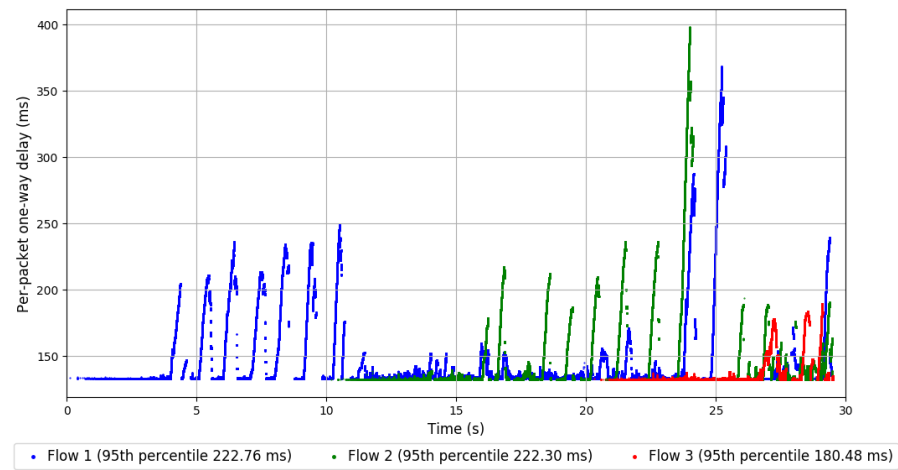
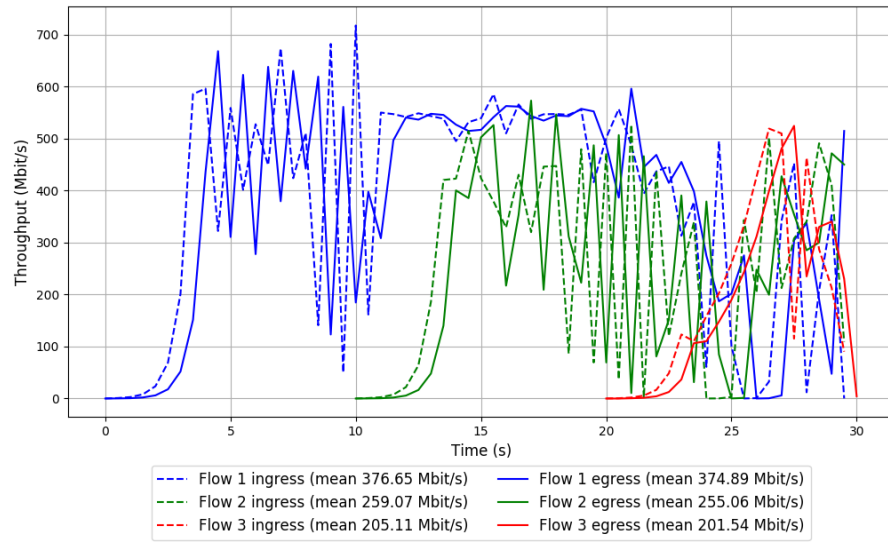


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-09-18 18:48:53  
End at: 2019-09-18 18:49:23  
Local clock offset: -0.031 ms  
Remote clock offset: -0.534 ms

# Below is generated by plot.py at 2019-09-18 21:22:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 605.16 Mbit/s  
95th percentile per-packet one-way delay: 218.629 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 374.89 Mbit/s  
95th percentile per-packet one-way delay: 222.764 ms  
Loss rate: 1.52%  
-- Flow 2:  
Average throughput: 255.06 Mbit/s  
95th percentile per-packet one-way delay: 222.304 ms  
Loss rate: 2.91%  
-- Flow 3:  
Average throughput: 201.54 Mbit/s  
95th percentile per-packet one-way delay: 180.477 ms  
Loss rate: 4.54%

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

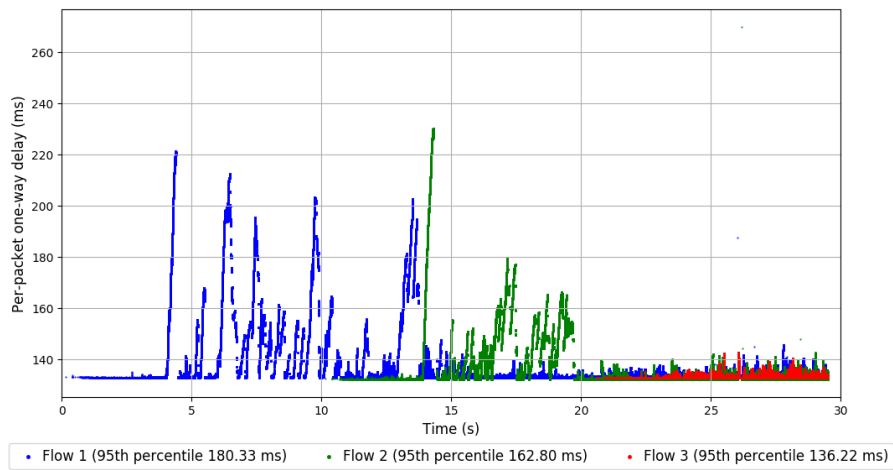
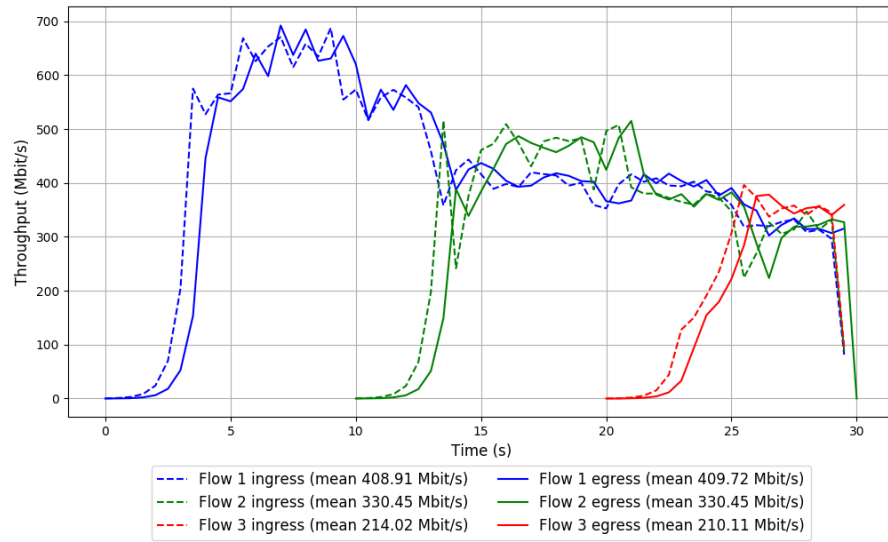


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 16:18:35  
End at: 2019-09-18 16:19:05  
Local clock offset: -0.075 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-09-18 21:23:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 693.03 Mbit/s  
95th percentile per-packet one-way delay: 172.053 ms  
Loss rate: 1.29%  
-- Flow 1:  
Average throughput: 409.72 Mbit/s  
95th percentile per-packet one-way delay: 180.331 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 330.45 Mbit/s  
95th percentile per-packet one-way delay: 162.801 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 210.11 Mbit/s  
95th percentile per-packet one-way delay: 136.225 ms  
Loss rate: 4.59%

# Run 1: Report of Muses\_DecisionTreeR0 — Data Link

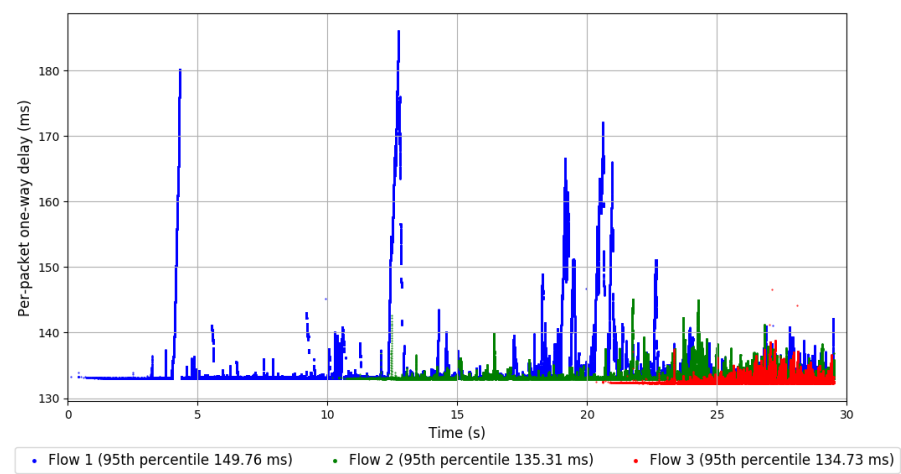
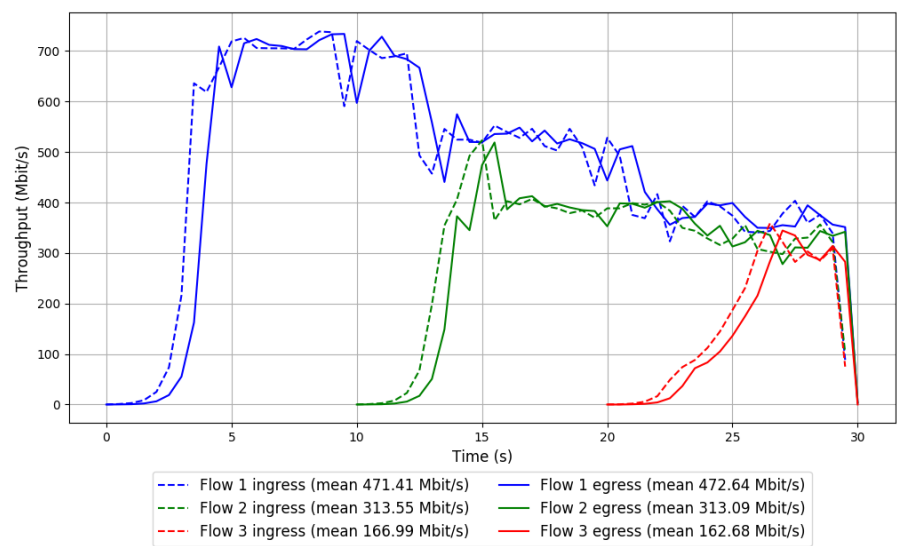


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 17:02:49  
End at: 2019-09-18 17:03:19  
Local clock offset: -0.108 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-09-18 21:26:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 729.46 Mbit/s  
95th percentile per-packet one-way delay: 140.943 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 472.64 Mbit/s  
95th percentile per-packet one-way delay: 149.756 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 313.09 Mbit/s  
95th percentile per-packet one-way delay: 135.311 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 162.68 Mbit/s  
95th percentile per-packet one-way delay: 134.728 ms  
Loss rate: 5.29%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

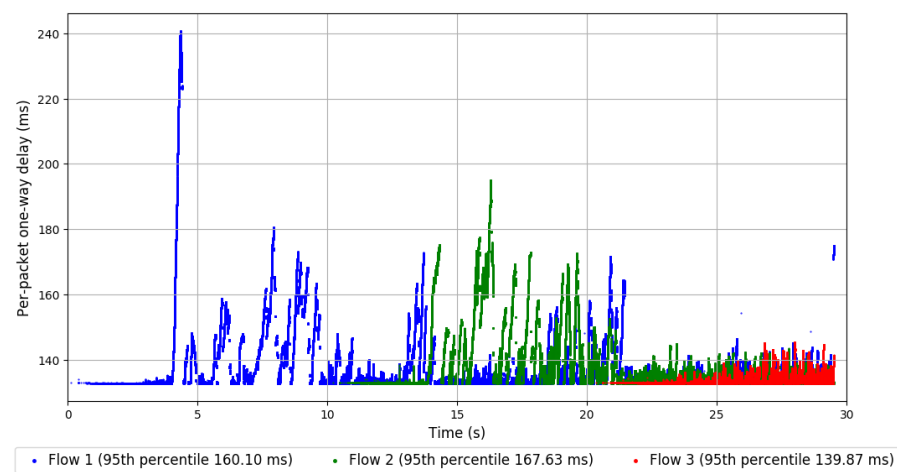
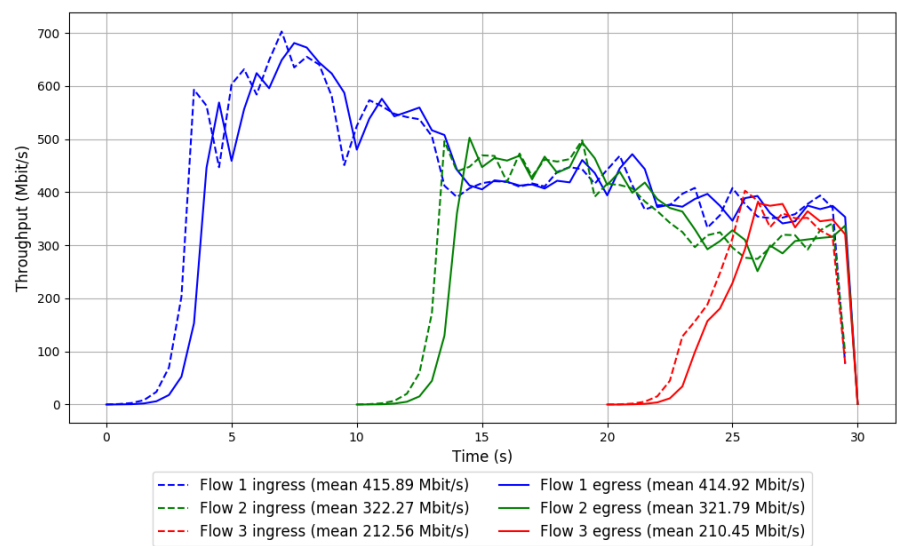


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 17:47:12  
End at: 2019-09-18 17:47:42  
Local clock offset: -0.061 ms  
Remote clock offset: -0.116 ms

# Below is generated by plot.py at 2019-09-18 21:29:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 691.97 Mbit/s  
95th percentile per-packet one-way delay: 163.108 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 414.92 Mbit/s  
95th percentile per-packet one-way delay: 160.103 ms  
Loss rate: 1.13%  
-- Flow 2:  
Average throughput: 321.79 Mbit/s  
95th percentile per-packet one-way delay: 167.628 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 210.45 Mbit/s  
95th percentile per-packet one-way delay: 139.865 ms  
Loss rate: 3.79%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link





Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 18:31:26

End at: 2019-09-18 18:31:56

Local clock offset: -0.03 ms

Remote clock offset: -1.17 ms

# Below is generated by plot.py at 2019-09-18 21:29:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 686.33 Mbit/s

95th percentile per-packet one-way delay: 158.191 ms

Loss rate: 1.49%

-- Flow 1:

Average throughput: 419.75 Mbit/s

95th percentile per-packet one-way delay: 166.840 ms

Loss rate: 1.15%

-- Flow 2:

Average throughput: 321.93 Mbit/s

95th percentile per-packet one-way delay: 136.245 ms

Loss rate: 1.34%

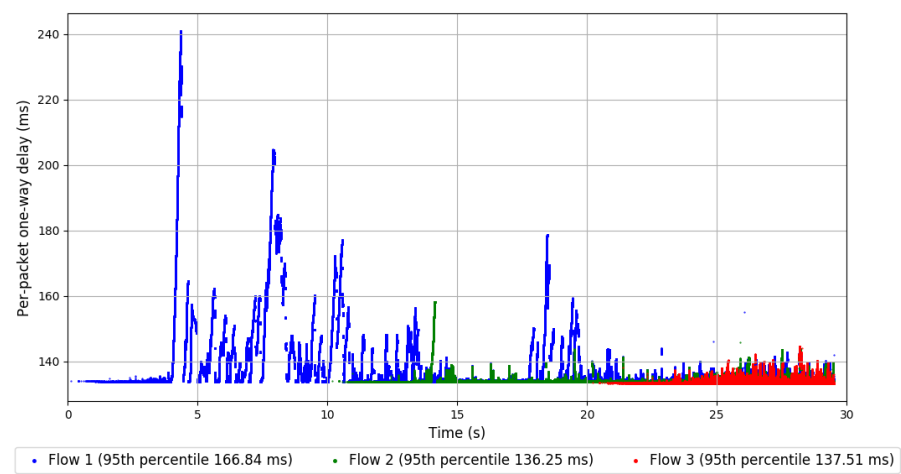
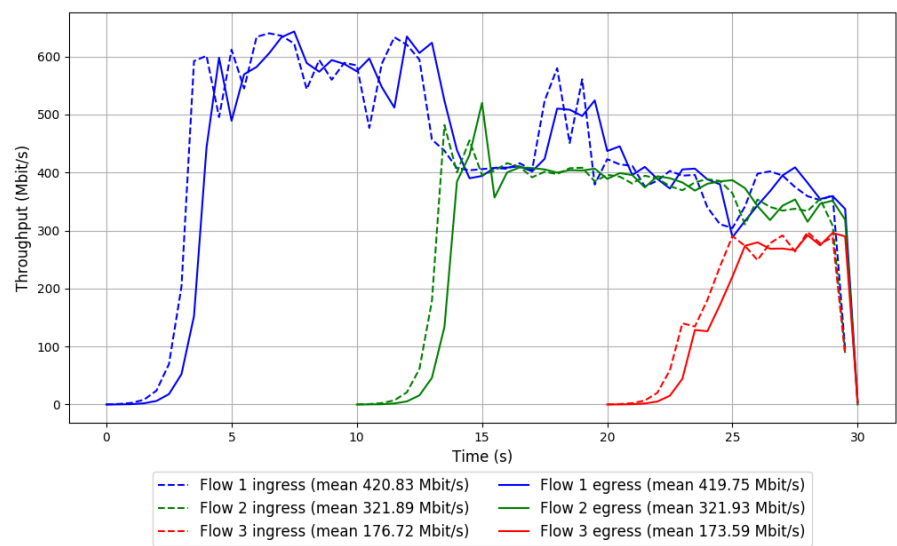
-- Flow 3:

Average throughput: 173.59 Mbit/s

95th percentile per-packet one-way delay: 137.508 ms

Loss rate: 4.49%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

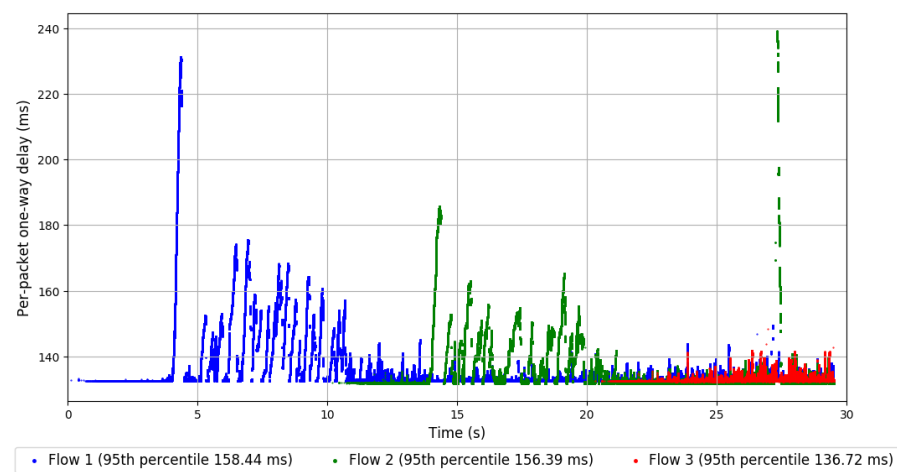
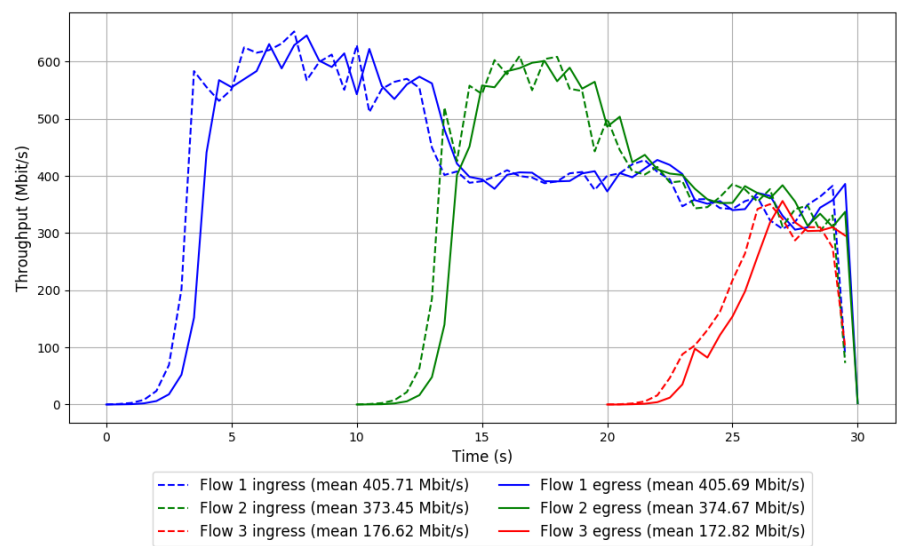


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-09-18 19:15:29  
End at: 2019-09-18 19:15:59  
Local clock offset: -0.4 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-09-18 21:29:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 706.21 Mbit/s  
95th percentile per-packet one-way delay: 156.814 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 405.69 Mbit/s  
95th percentile per-packet one-way delay: 158.435 ms  
Loss rate: 0.90%  
-- Flow 2:  
Average throughput: 374.67 Mbit/s  
95th percentile per-packet one-way delay: 156.390 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 172.82 Mbit/s  
95th percentile per-packet one-way delay: 136.721 ms  
Loss rate: 4.93%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

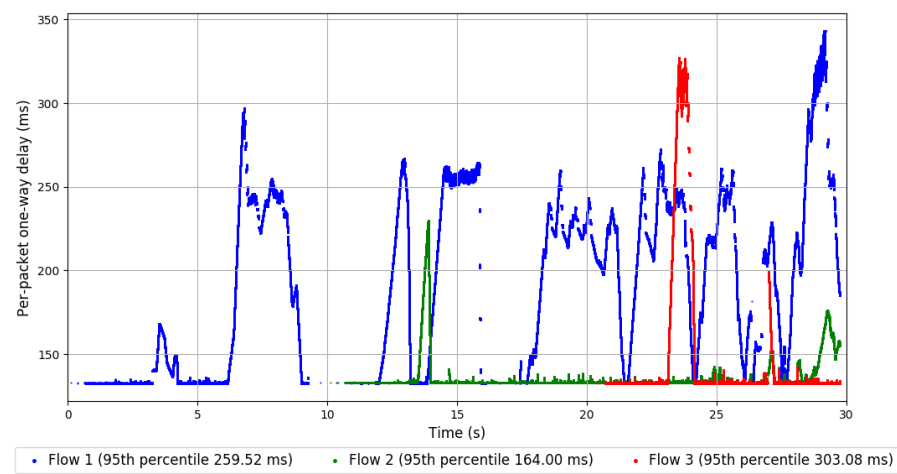
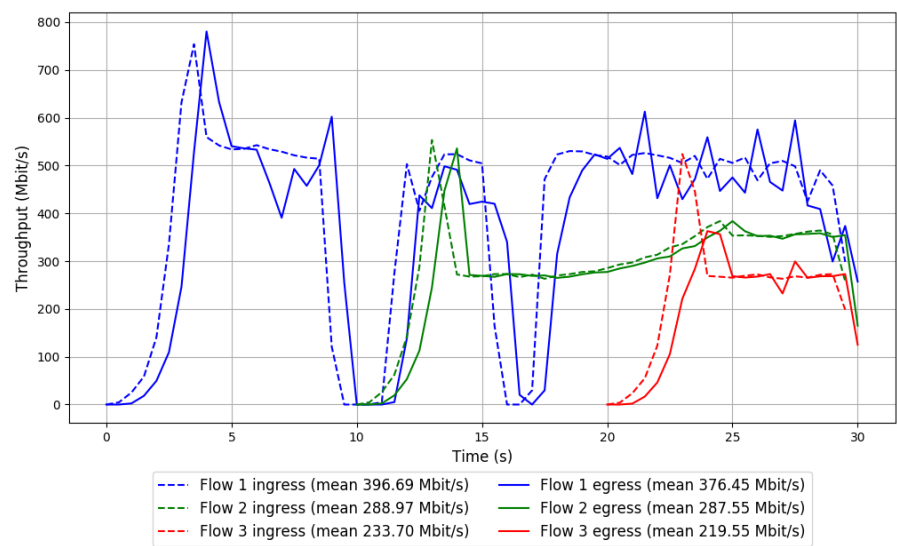


Run 1: Statistics of PCC-Allegro

Start at: 2019-09-18 16:21:55  
End at: 2019-09-18 16:22:25  
Local clock offset: -0.324 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-09-18 21:40:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 637.73 Mbit/s  
95th percentile per-packet one-way delay: 257.429 ms  
Loss rate: 5.07%  
-- Flow 1:  
Average throughput: 376.45 Mbit/s  
95th percentile per-packet one-way delay: 259.516 ms  
Loss rate: 5.95%  
-- Flow 2:  
Average throughput: 287.55 Mbit/s  
95th percentile per-packet one-way delay: 164.002 ms  
Loss rate: 1.83%  
-- Flow 3:  
Average throughput: 219.55 Mbit/s  
95th percentile per-packet one-way delay: 303.085 ms  
Loss rate: 8.60%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-09-18 17:06:10

End at: 2019-09-18 17:06:40

Local clock offset: 0.296 ms

Remote clock offset: 0.563 ms

# Below is generated by plot.py at 2019-09-18 21:40:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 552.69 Mbit/s

95th percentile per-packet one-way delay: 272.275 ms

Loss rate: 3.88%

-- Flow 1:

Average throughput: 302.51 Mbit/s

95th percentile per-packet one-way delay: 287.819 ms

Loss rate: 3.90%

-- Flow 2:

Average throughput: 267.72 Mbit/s

95th percentile per-packet one-way delay: 195.854 ms

Loss rate: 2.50%

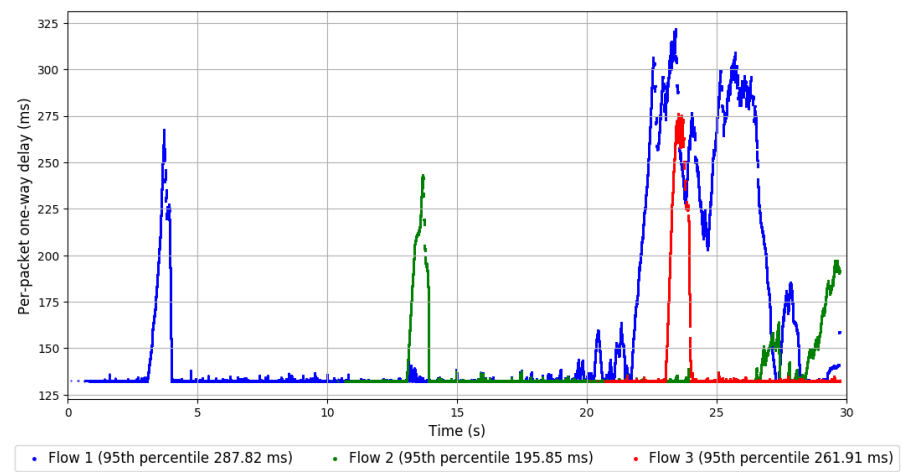
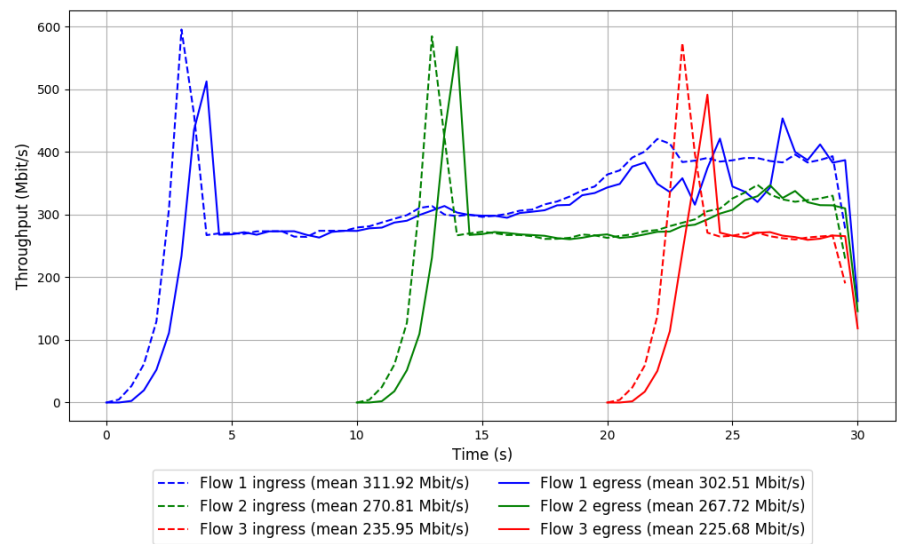
-- Flow 3:

Average throughput: 225.68 Mbit/s

95th percentile per-packet one-way delay: 261.913 ms

Loss rate: 6.99%

Run 2: Report of PCC-Allegro — Data Link



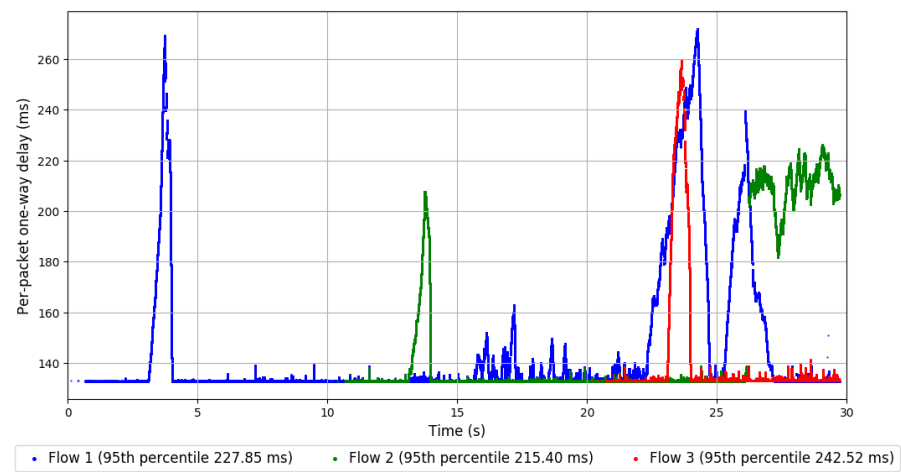
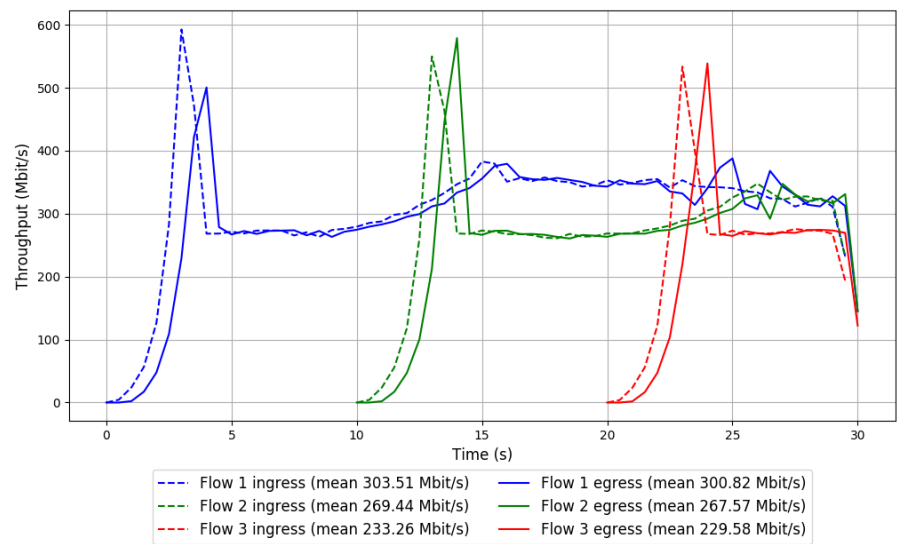


Run 3: Statistics of PCC-Allegro

Start at: 2019-09-18 17:50:31  
End at: 2019-09-18 17:51:01  
Local clock offset: -0.041 ms  
Remote clock offset: -0.213 ms

# Below is generated by plot.py at 2019-09-18 21:41:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 552.05 Mbit/s  
95th percentile per-packet one-way delay: 221.853 ms  
Loss rate: 2.19%  
-- Flow 1:  
Average throughput: 300.82 Mbit/s  
95th percentile per-packet one-way delay: 227.847 ms  
Loss rate: 1.77%  
-- Flow 2:  
Average throughput: 267.57 Mbit/s  
95th percentile per-packet one-way delay: 215.395 ms  
Loss rate: 2.03%  
-- Flow 3:  
Average throughput: 229.58 Mbit/s  
95th percentile per-packet one-way delay: 242.520 ms  
Loss rate: 4.25%

Run 3: Report of PCC-Allegro — Data Link

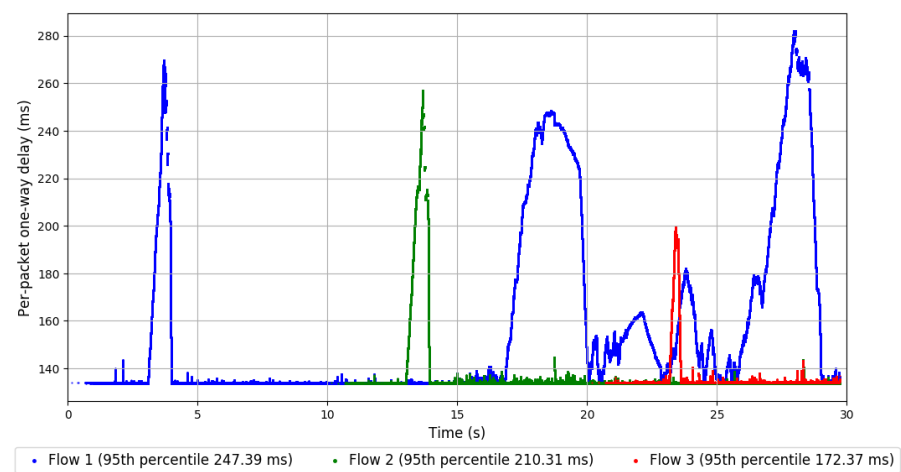
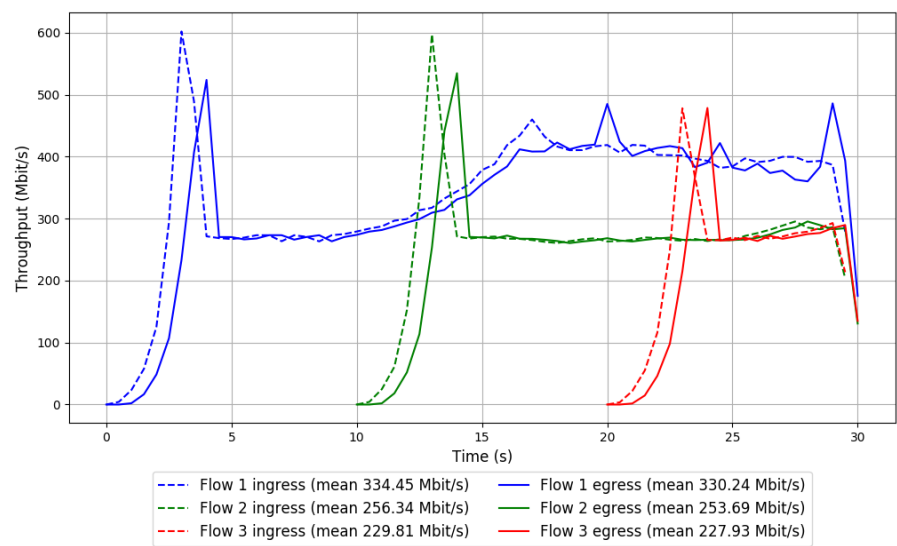


Run 4: Statistics of PCC-Allegro

Start at: 2019-09-18 18:34:46  
End at: 2019-09-18 18:35:16  
Local clock offset: -0.024 ms  
Remote clock offset: -1.125 ms

# Below is generated by plot.py at 2019-09-18 21:43:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 571.74 Mbit/s  
95th percentile per-packet one-way delay: 241.594 ms  
Loss rate: 2.38%  
-- Flow 1:  
Average throughput: 330.24 Mbit/s  
95th percentile per-packet one-way delay: 247.394 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 253.69 Mbit/s  
95th percentile per-packet one-way delay: 210.306 ms  
Loss rate: 2.36%  
-- Flow 3:  
Average throughput: 227.93 Mbit/s  
95th percentile per-packet one-way delay: 172.370 ms  
Loss rate: 3.50%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-09-18 19:18:49

End at: 2019-09-18 19:19:19

Local clock offset: -0.069 ms

Remote clock offset: 0.174 ms

# Below is generated by plot.py at 2019-09-18 21:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 648.82 Mbit/s

95th percentile per-packet one-way delay: 246.701 ms

Loss rate: 3.49%

-- Flow 1:

Average throughput: 383.27 Mbit/s

95th percentile per-packet one-way delay: 249.504 ms

Loss rate: 3.46%

-- Flow 2:

Average throughput: 288.93 Mbit/s

95th percentile per-packet one-way delay: 195.112 ms

Loss rate: 2.80%

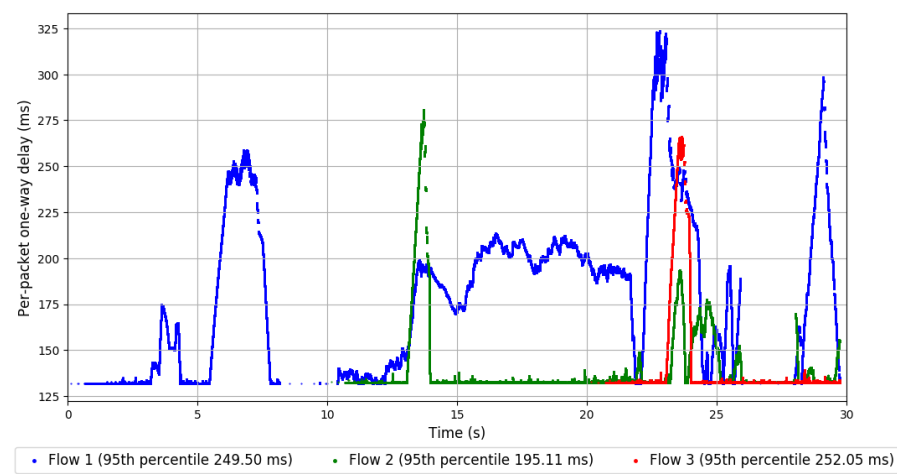
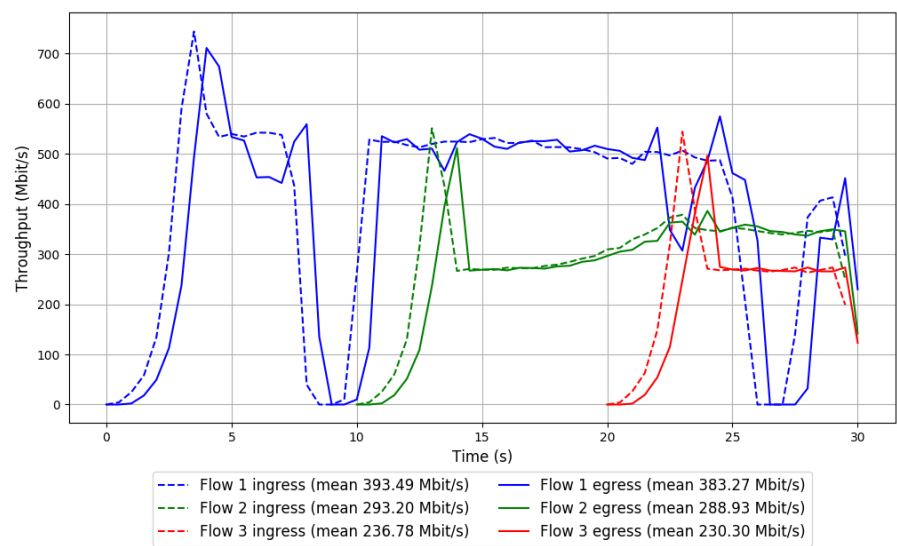
-- Flow 3:

Average throughput: 230.30 Mbit/s

95th percentile per-packet one-way delay: 252.051 ms

Loss rate: 5.38%

Run 5: Report of PCC-Allegro — Data Link

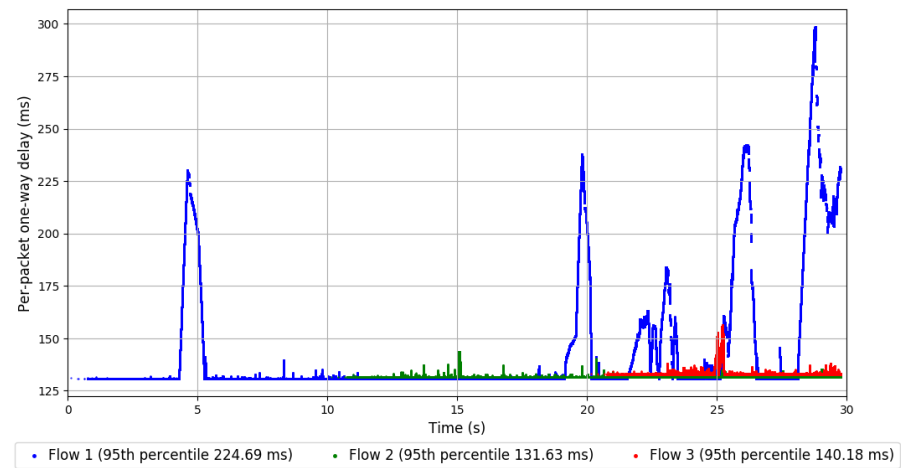
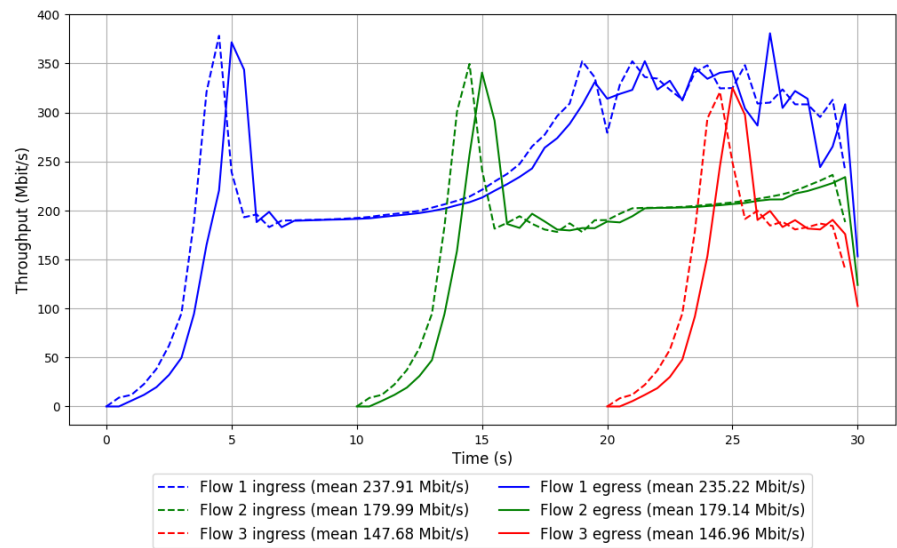


Run 1: Statistics of PCC-Expr

Start at: 2019-09-18 15:43:21  
End at: 2019-09-18 15:43:51  
Local clock offset: -0.027 ms  
Remote clock offset: -0.212 ms

# Below is generated by plot.py at 2019-09-18 21:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 401.34 Mbit/s  
95th percentile per-packet one-way delay: 213.538 ms  
Loss rate: 2.08%  
-- Flow 1:  
Average throughput: 235.22 Mbit/s  
95th percentile per-packet one-way delay: 224.686 ms  
Loss rate: 2.00%  
-- Flow 2:  
Average throughput: 179.14 Mbit/s  
95th percentile per-packet one-way delay: 131.632 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 146.96 Mbit/s  
95th percentile per-packet one-way delay: 140.184 ms  
Loss rate: 3.16%

Run 1: Report of PCC-Expr — Data Link



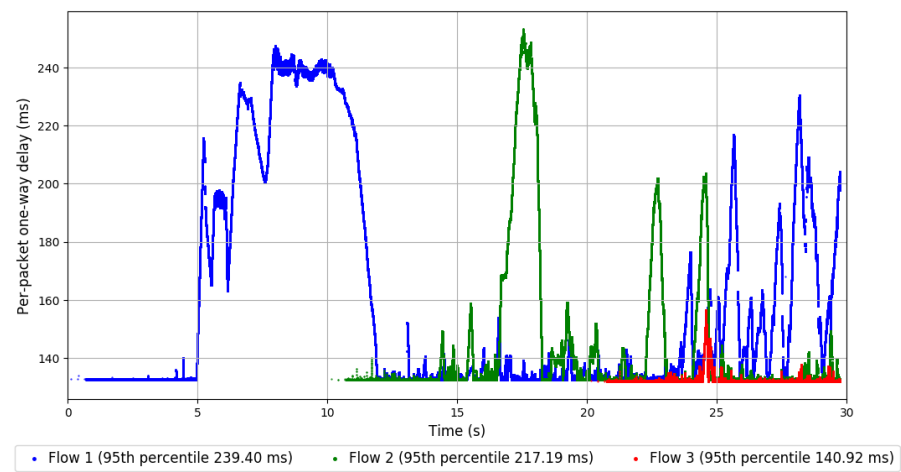
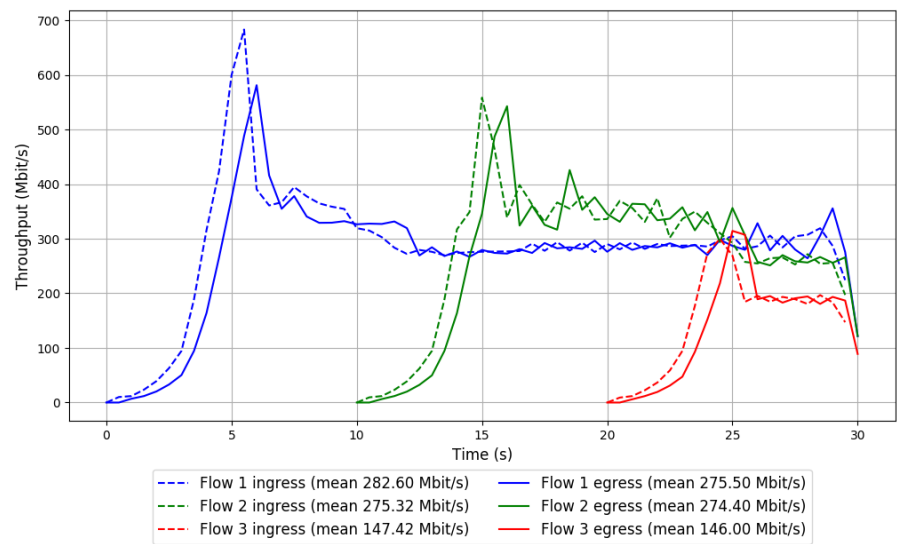


Run 2: Statistics of PCC-Expr

Start at: 2019-09-18 16:27:30  
End at: 2019-09-18 16:28:00  
Local clock offset: -0.247 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-09-18 21:49:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 504.46 Mbit/s  
95th percentile per-packet one-way delay: 238.180 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 275.50 Mbit/s  
95th percentile per-packet one-way delay: 239.400 ms  
Loss rate: 3.38%  
-- Flow 2:  
Average throughput: 274.40 Mbit/s  
95th percentile per-packet one-way delay: 217.189 ms  
Loss rate: 1.67%  
-- Flow 3:  
Average throughput: 146.00 Mbit/s  
95th percentile per-packet one-way delay: 140.923 ms  
Loss rate: 3.63%

Run 2: Report of PCC-Expr — Data Link



Run 3: Statistics of PCC-Expr

Start at: 2019-09-18 17:11:34

End at: 2019-09-18 17:12:04

Local clock offset: -0.099 ms

Remote clock offset: -0.23 ms

# Below is generated by plot.py at 2019-09-18 21:49:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 368.04 Mbit/s

95th percentile per-packet one-way delay: 187.864 ms

Loss rate: 2.29%

-- Flow 1:

Average throughput: 208.30 Mbit/s

95th percentile per-packet one-way delay: 181.072 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 167.99 Mbit/s

95th percentile per-packet one-way delay: 156.307 ms

Loss rate: 1.65%

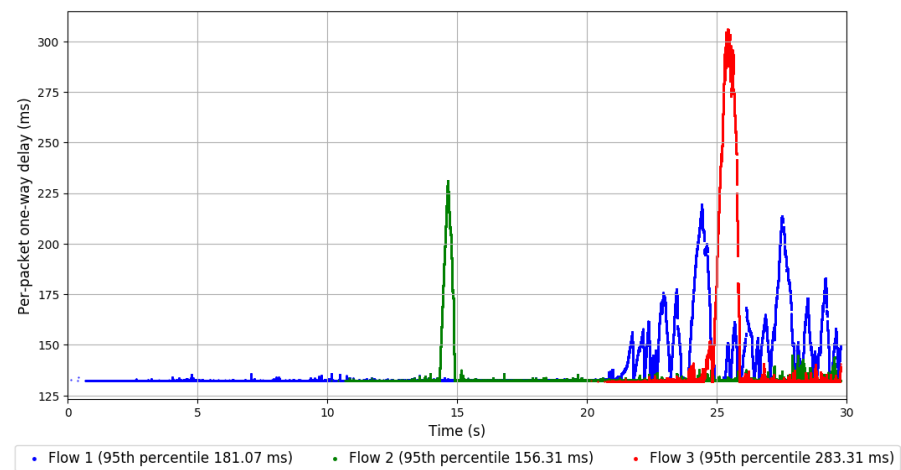
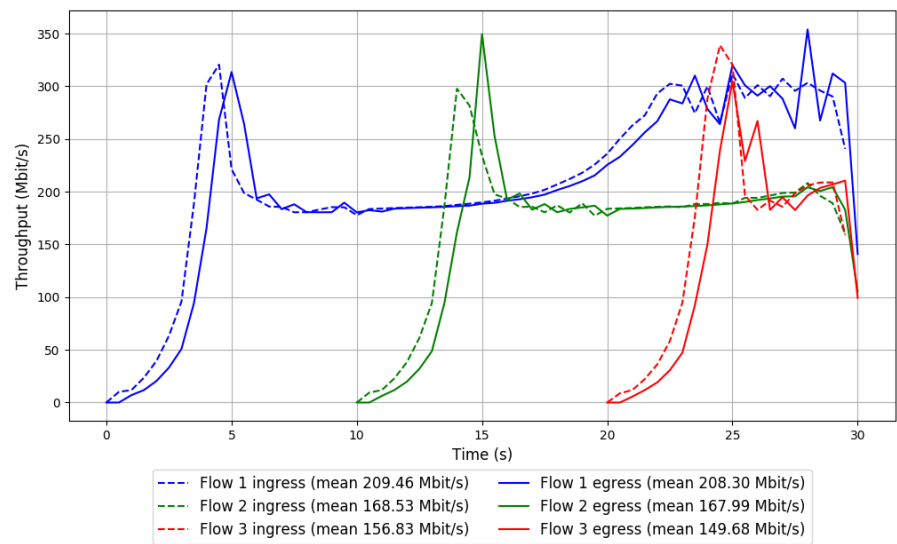
-- Flow 3:

Average throughput: 149.68 Mbit/s

95th percentile per-packet one-way delay: 283.315 ms

Loss rate: 7.12%

Run 3: Report of PCC-Expr — Data Link

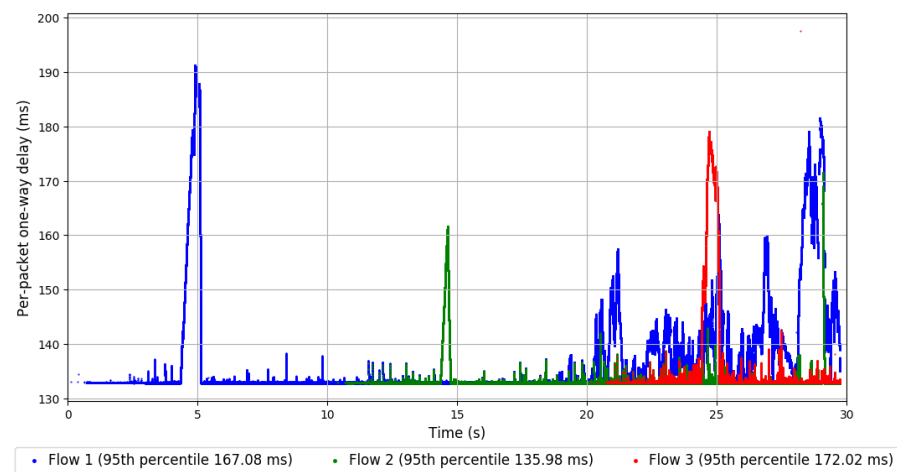
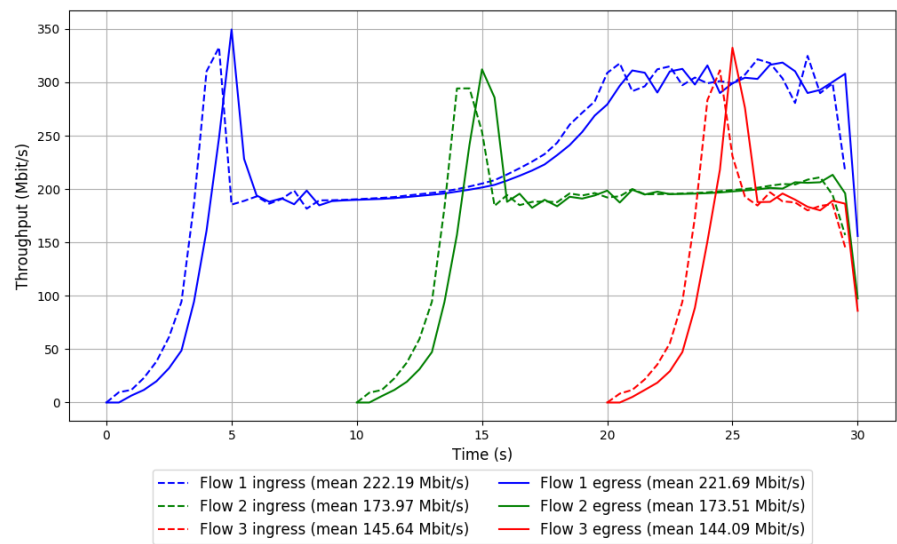


Run 4: Statistics of PCC-Expr

Start at: 2019-09-18 17:55:58  
End at: 2019-09-18 17:56:28  
Local clock offset: -0.005 ms  
Remote clock offset: -0.177 ms

# Below is generated by plot.py at 2019-09-18 21:52:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 383.24 Mbit/s  
95th percentile per-packet one-way delay: 161.394 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 221.69 Mbit/s  
95th percentile per-packet one-way delay: 167.077 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 173.51 Mbit/s  
95th percentile per-packet one-way delay: 135.978 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 144.09 Mbit/s  
95th percentile per-packet one-way delay: 172.024 ms  
Loss rate: 3.74%

Run 4: Report of PCC-Expr — Data Link

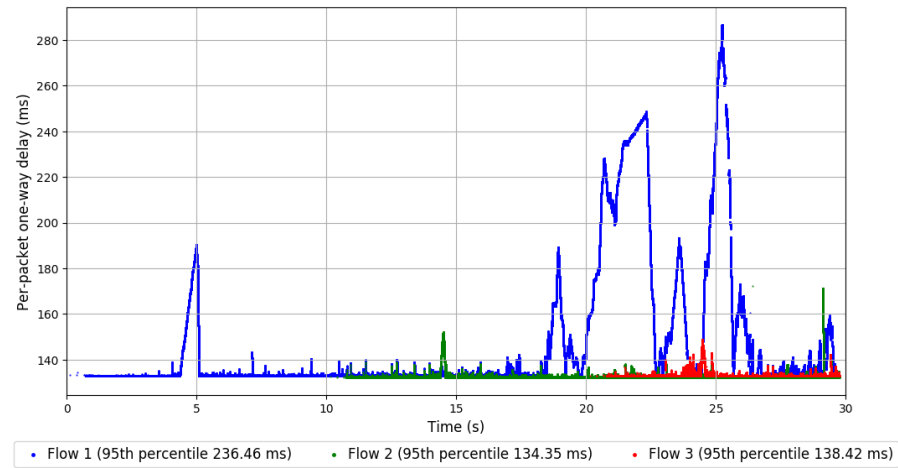
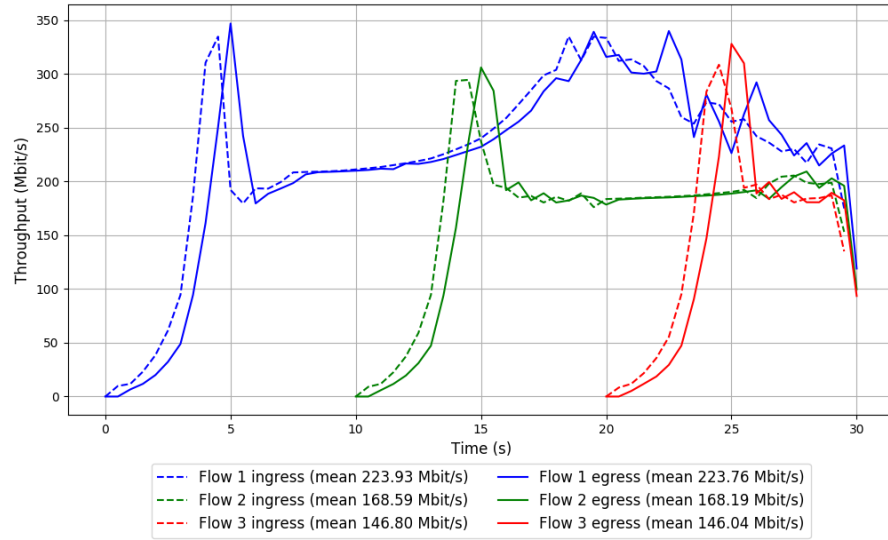


Run 5: Statistics of PCC-Expr

Start at: 2019-09-18 18:40:12  
End at: 2019-09-18 18:40:42  
Local clock offset: -0.069 ms  
Remote clock offset: -0.127 ms

# Below is generated by plot.py at 2019-09-18 21:53:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 382.40 Mbit/s  
95th percentile per-packet one-way delay: 217.970 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 223.76 Mbit/s  
95th percentile per-packet one-way delay: 236.456 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 168.19 Mbit/s  
95th percentile per-packet one-way delay: 134.352 ms  
Loss rate: 1.59%  
-- Flow 3:  
Average throughput: 146.04 Mbit/s  
95th percentile per-packet one-way delay: 138.416 ms  
Loss rate: 3.20%

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





Run 1: Statistics of QUIC Cubic

Start at: 2019-09-18 15:48:28

End at: 2019-09-18 15:48:58

Local clock offset: 0.112 ms

Remote clock offset: 0.148 ms

# Below is generated by plot.py at 2019-09-18 21:53:03

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.79 Mbit/s

95th percentile per-packet one-way delay: 132.678 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 54.81 Mbit/s

95th percentile per-packet one-way delay: 130.573 ms

Loss rate: 1.32%

-- Flow 2:

Average throughput: 62.02 Mbit/s

95th percentile per-packet one-way delay: 132.696 ms

Loss rate: 0.19%

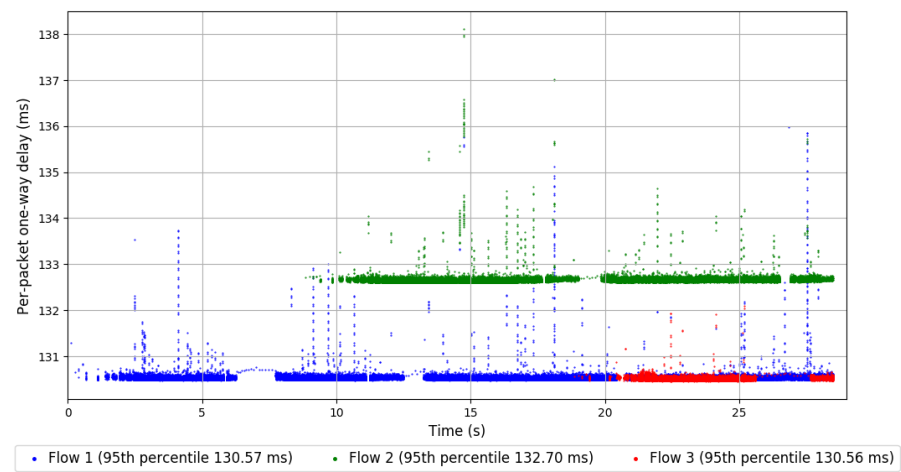
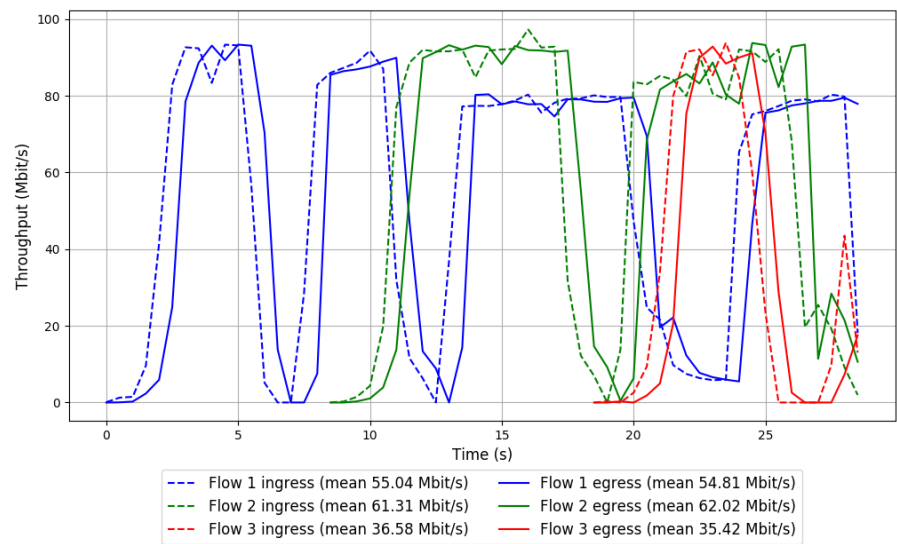
-- Flow 3:

Average throughput: 35.42 Mbit/s

95th percentile per-packet one-way delay: 130.557 ms

Loss rate: 5.73%

Run 1: Report of QUIC Cubic — Data Link

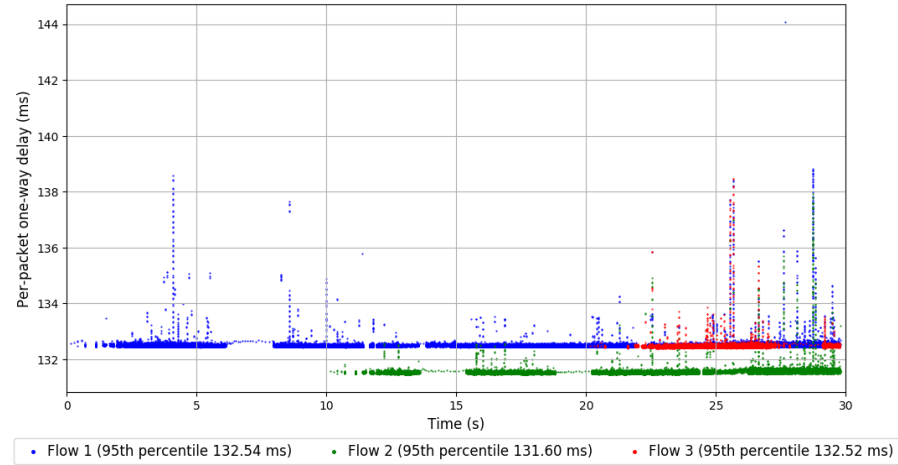
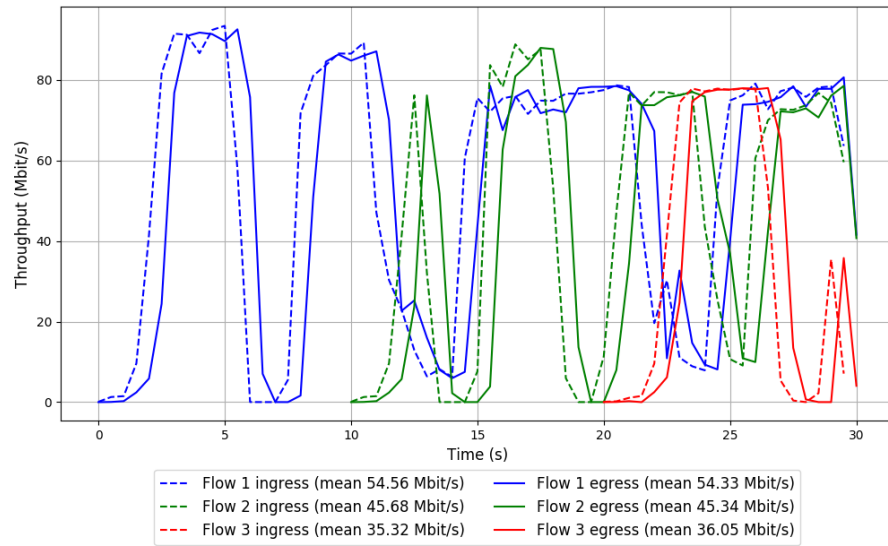


Run 2: Statistics of QUIC Cubic

Start at: 2019-09-18 16:33:05  
End at: 2019-09-18 16:33:35  
Local clock offset: -0.472 ms  
Remote clock offset: -0.164 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.07 Mbit/s  
95th percentile per-packet one-way delay: 132.527 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 54.33 Mbit/s  
95th percentile per-packet one-way delay: 132.539 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 45.34 Mbit/s  
95th percentile per-packet one-way delay: 131.603 ms  
Loss rate: 2.03%  
-- Flow 3:  
Average throughput: 36.05 Mbit/s  
95th percentile per-packet one-way delay: 132.516 ms  
Loss rate: 0.70%

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

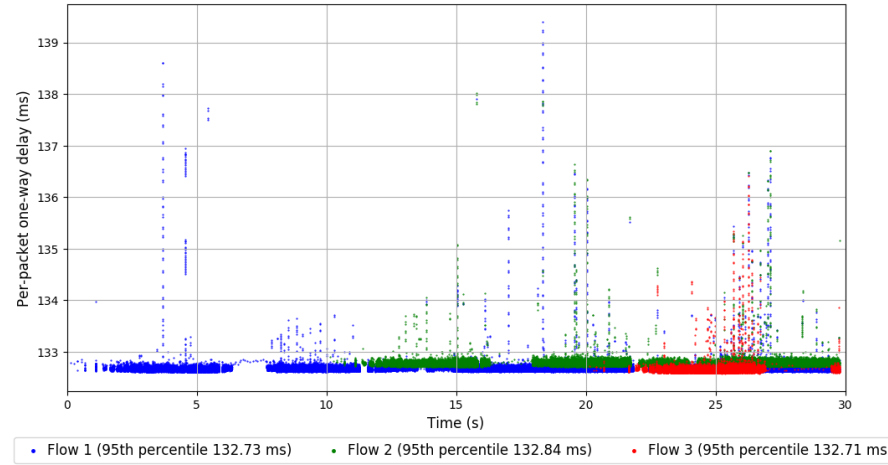
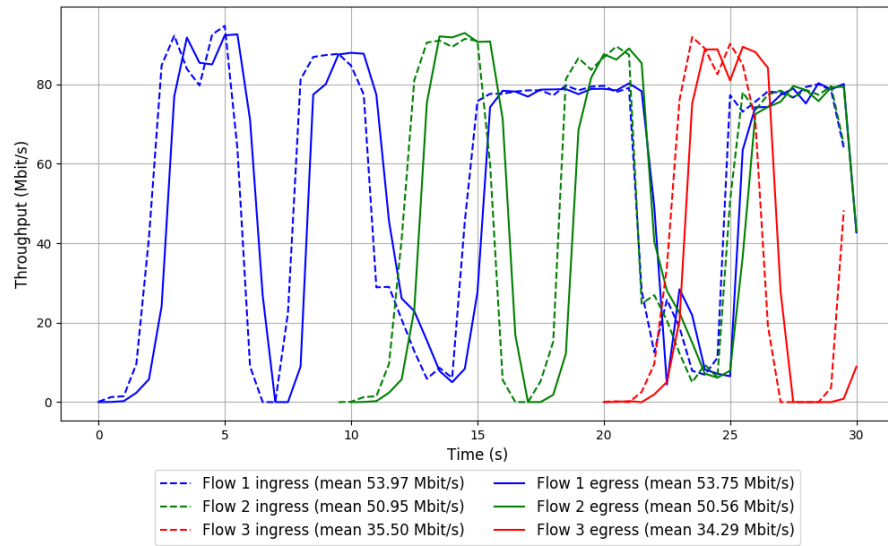


Run 3: Statistics of QUIC Cubic

Start at: 2019-09-18 17:17:05  
End at: 2019-09-18 17:17:35  
Local clock offset: -0.117 ms  
Remote clock offset: -0.098 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 98.40 Mbit/s  
95th percentile per-packet one-way delay: 132.811 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 53.75 Mbit/s  
95th percentile per-packet one-way delay: 132.728 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 50.56 Mbit/s  
95th percentile per-packet one-way delay: 132.837 ms  
Loss rate: 2.07%  
-- Flow 3:  
Average throughput: 34.29 Mbit/s  
95th percentile per-packet one-way delay: 132.714 ms  
Loss rate: 5.99%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-09-18 18:01:08

End at: 2019-09-18 18:01:38

Local clock offset: 0.037 ms

Remote clock offset: 0.225 ms

# Below is generated by plot.py at 2019-09-18 21:53:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 98.24 Mbit/s

95th percentile per-packet one-way delay: 132.588 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 53.57 Mbit/s

95th percentile per-packet one-way delay: 132.568 ms

Loss rate: 1.37%

-- Flow 2:

Average throughput: 48.65 Mbit/s

95th percentile per-packet one-way delay: 132.612 ms

Loss rate: 2.05%

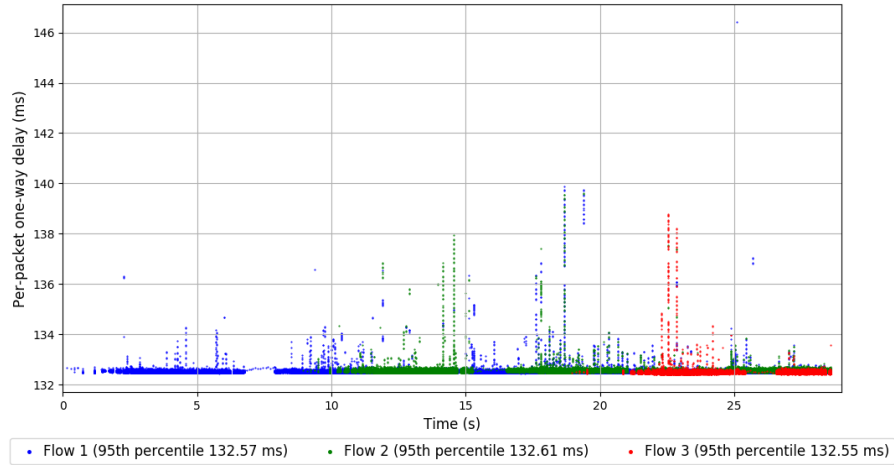
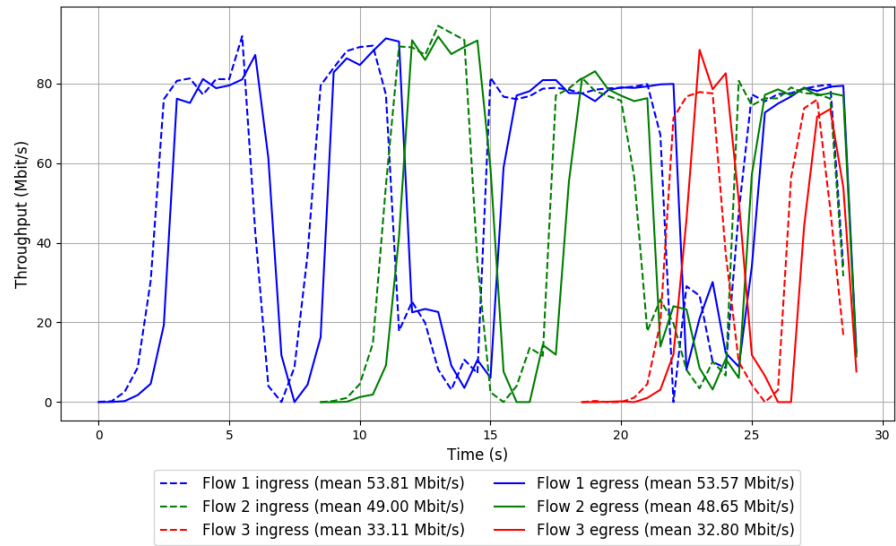
-- Flow 3:

Average throughput: 32.80 Mbit/s

95th percentile per-packet one-way delay: 132.552 ms

Loss rate: 3.56%

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





Run 5: Statistics of QUIC Cubic

Start at: 2019-09-18 18:45:31

End at: 2019-09-18 18:46:01

Local clock offset: 0.114 ms

Remote clock offset: 1.191 ms

# Below is generated by plot.py at 2019-09-18 21:53:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 106.83 Mbit/s

95th percentile per-packet one-way delay: 131.839 ms

Loss rate: 1.96%

-- Flow 1:

Average throughput: 55.44 Mbit/s

95th percentile per-packet one-way delay: 131.855 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 51.26 Mbit/s

95th percentile per-packet one-way delay: 131.707 ms

Loss rate: 2.04%

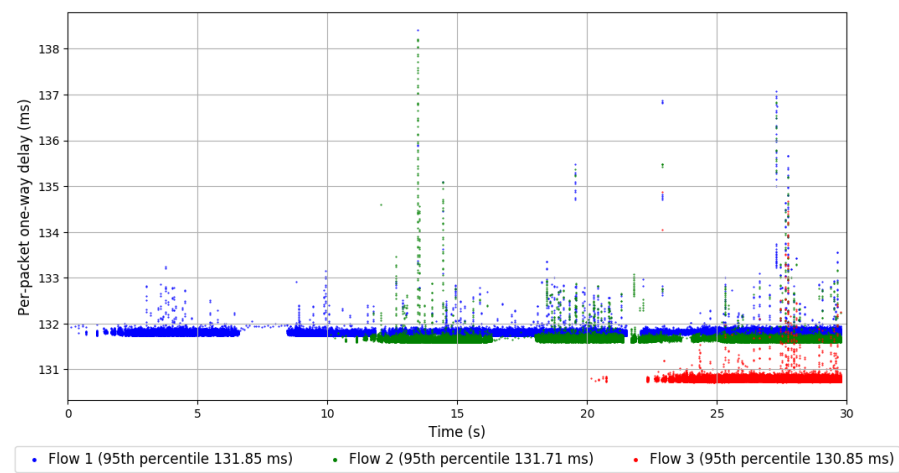
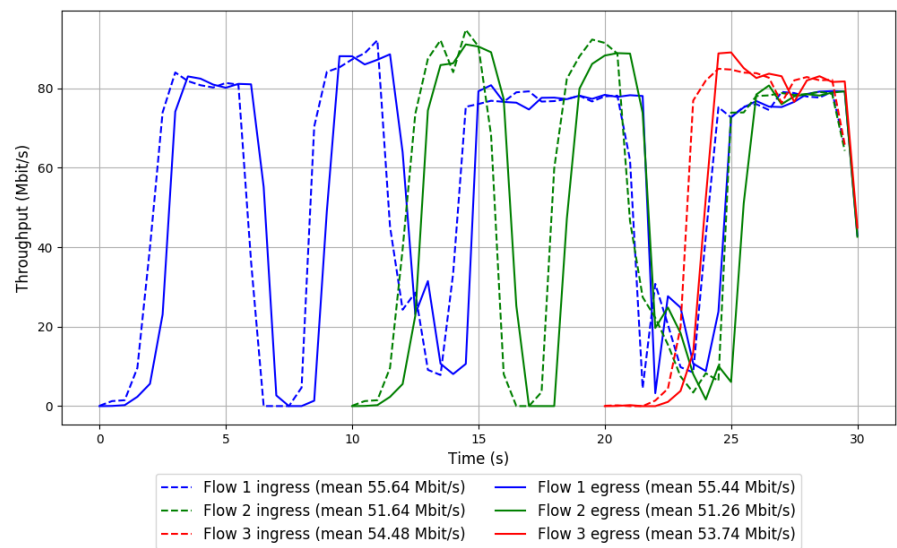
-- Flow 3:

Average throughput: 53.74 Mbit/s

95th percentile per-packet one-way delay: 130.848 ms

Loss rate: 3.99%

Run 5: Report of QUIC Cubic — Data Link

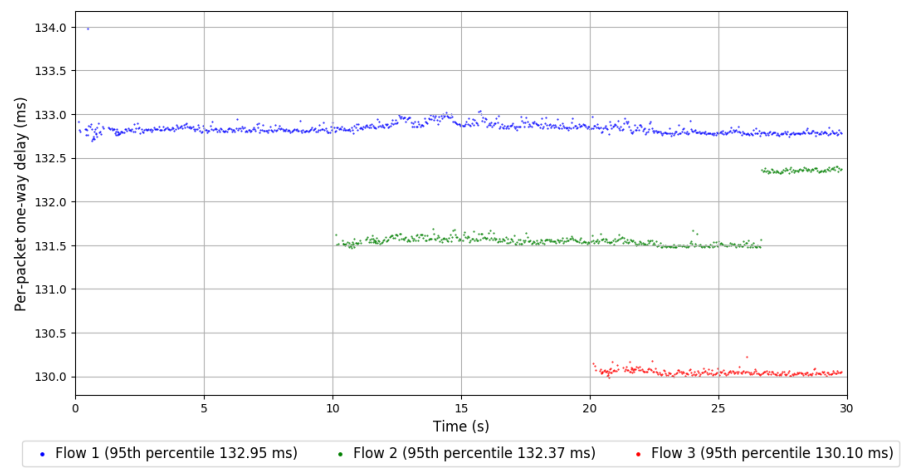
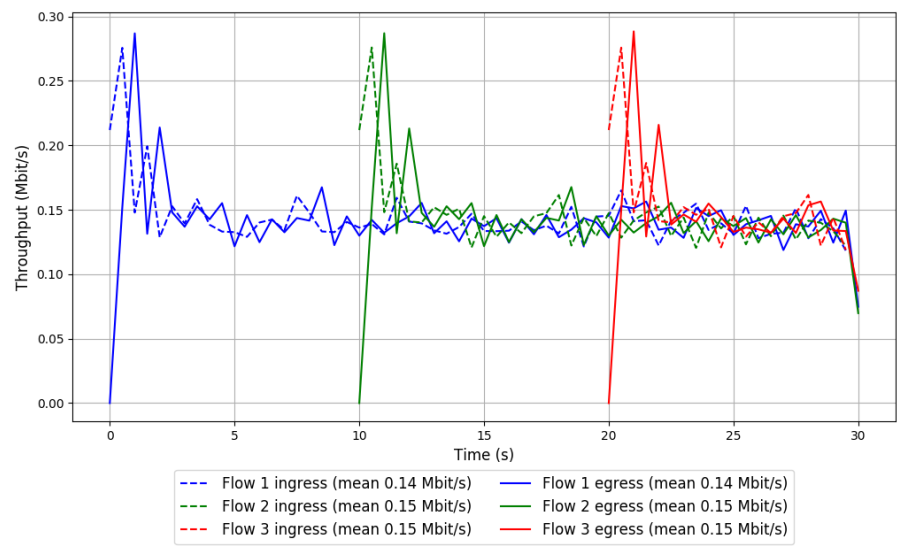


Run 1: Statistics of SReAM

Start at: 2019-09-18 16:07:49  
End at: 2019-09-18 16:08:19  
Local clock offset: -0.133 ms  
Remote clock offset: -0.226 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.29 Mbit/s  
95th percentile per-packet one-way delay: 132.912 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 132.951 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.367 ms  
Loss rate: 1.38%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 130.103 ms  
Loss rate: 2.44%

Run 1: Report of SReAM — Data Link

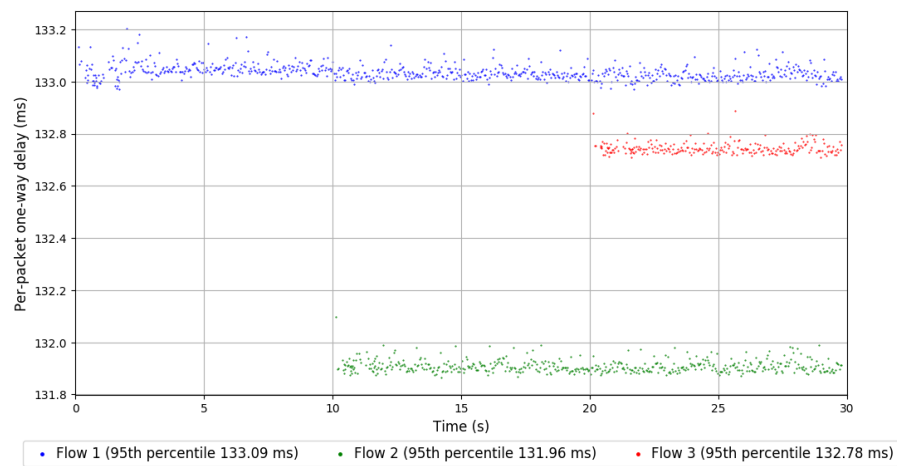
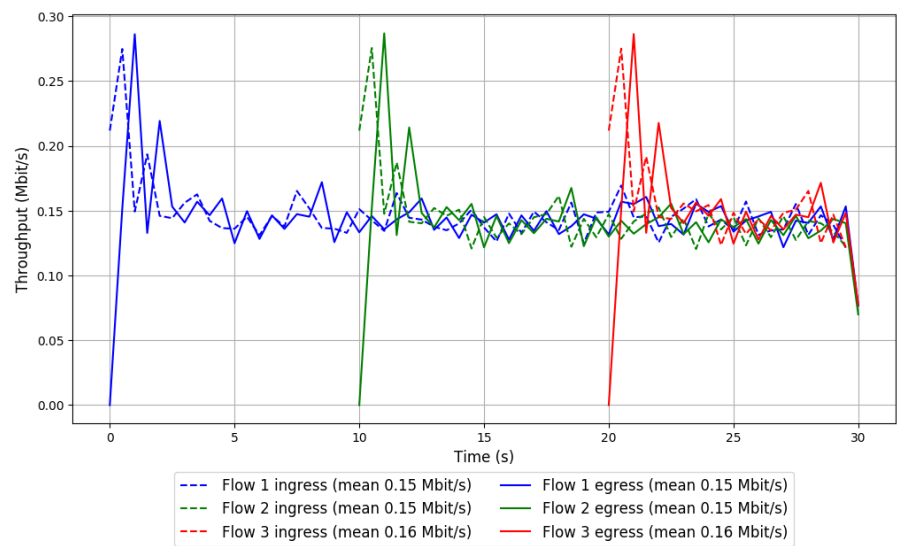


Run 2: Statistics of SReAM

Start at: 2019-09-18 16:52:06  
End at: 2019-09-18 16:52:36  
Local clock offset: -0.254 ms  
Remote clock offset: -0.187 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.071 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.086 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 131.959 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 132.783 ms  
Loss rate: 2.45%

Run 2: Report of SReAM — Data Link

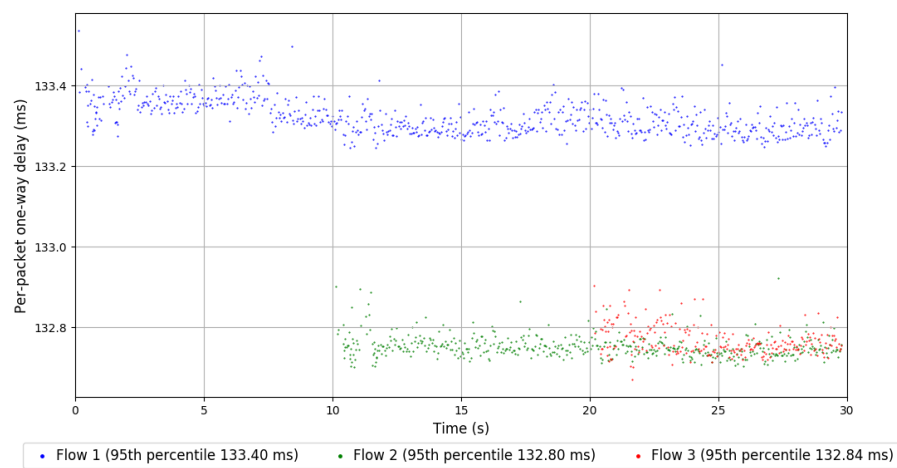
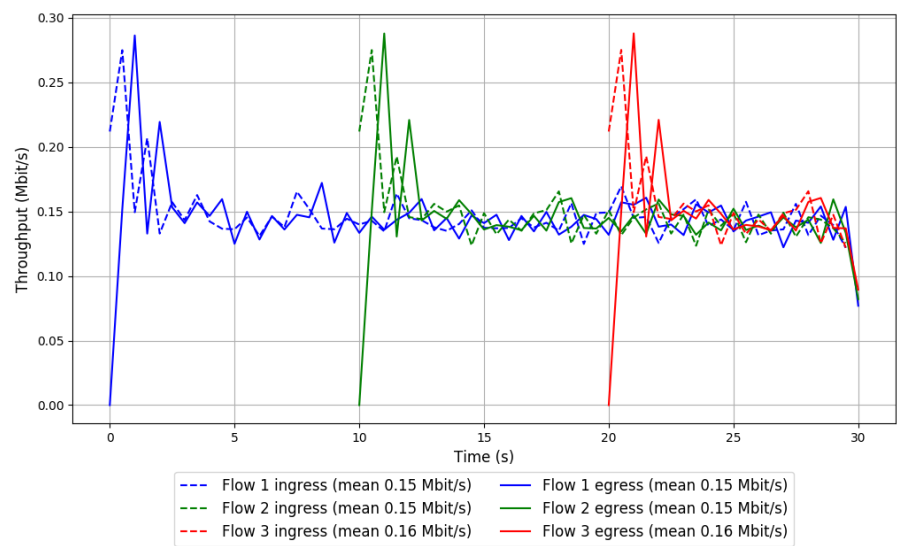


Run 3: Statistics of SCReAM

Start at: 2019-09-18 17:36:12  
End at: 2019-09-18 17:36:42  
Local clock offset: 0.17 ms  
Remote clock offset: -0.235 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.379 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.398 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.800 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 132.835 ms  
Loss rate: 2.45%

Run 3: Report of SReAM — Data Link



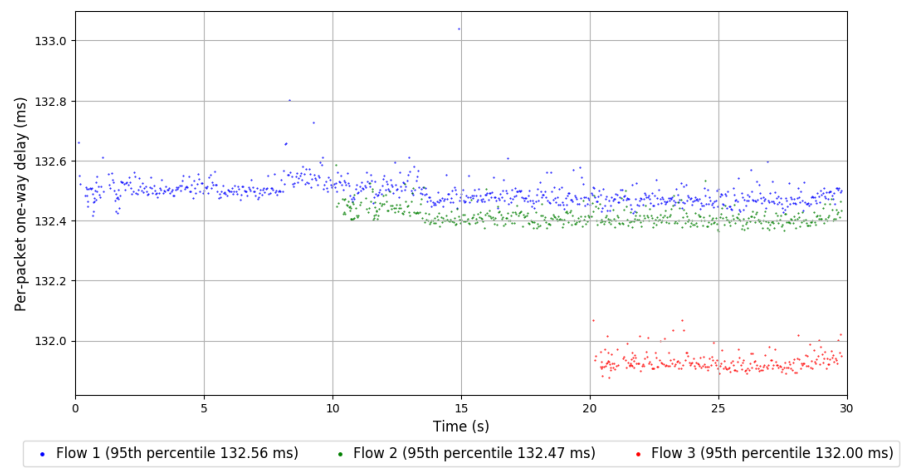
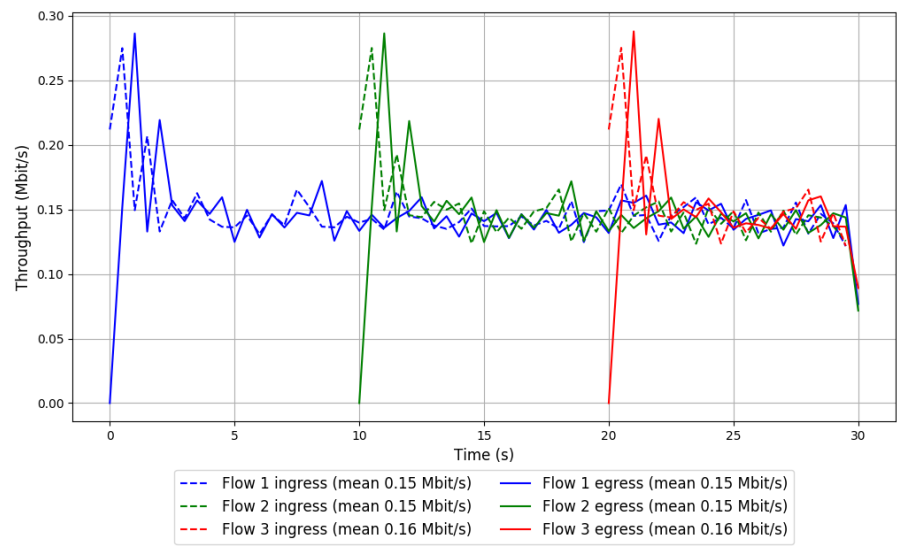


Run 4: Statistics of SCReAM

Start at: 2019-09-18 18:20:31  
End at: 2019-09-18 18:21:01  
Local clock offset: 0.038 ms  
Remote clock offset: 0.417 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 132.539 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.556 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.469 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 132.000 ms  
Loss rate: 2.45%

Run 4: Report of SReAM — Data Link

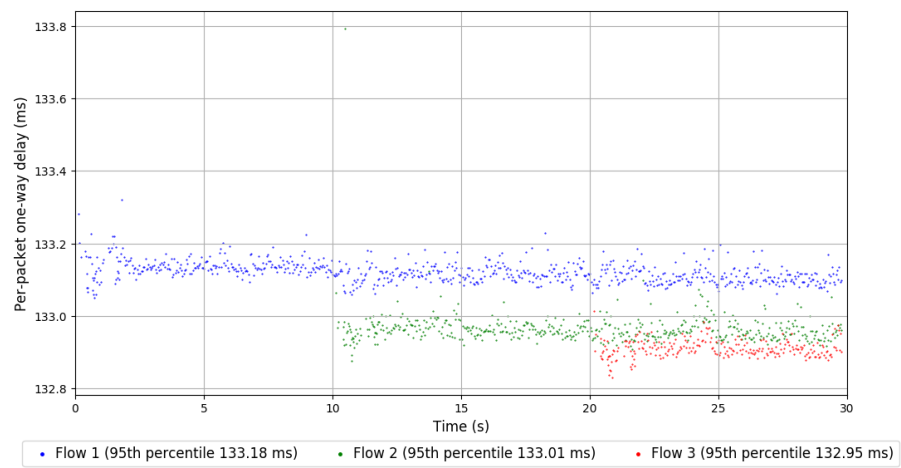
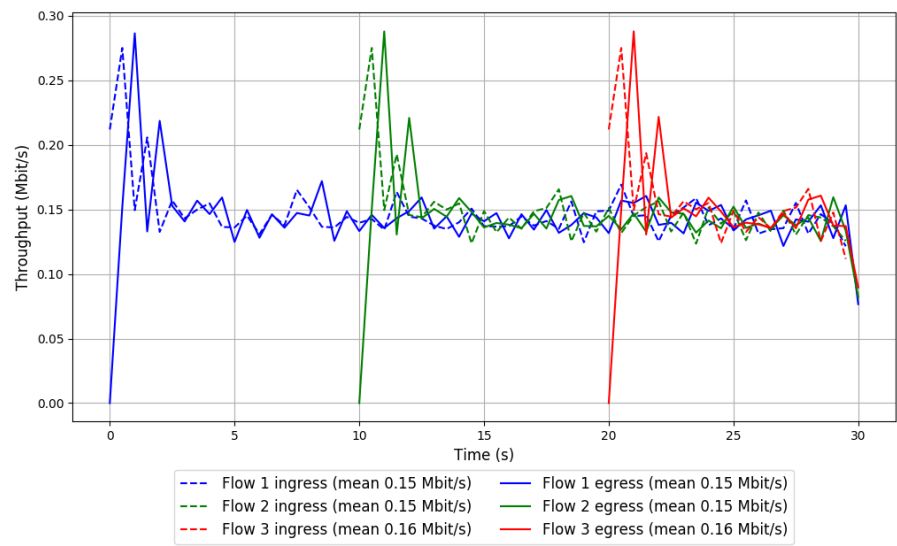


Run 5: Statistics of SCReAM

Start at: 2019-09-18 19:04:37  
End at: 2019-09-18 19:05:07  
Local clock offset: -0.059 ms  
Remote clock offset: -0.133 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.158 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.175 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.012 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 132.953 ms  
Loss rate: 2.12%

Run 5: Report of SReAM — Data Link

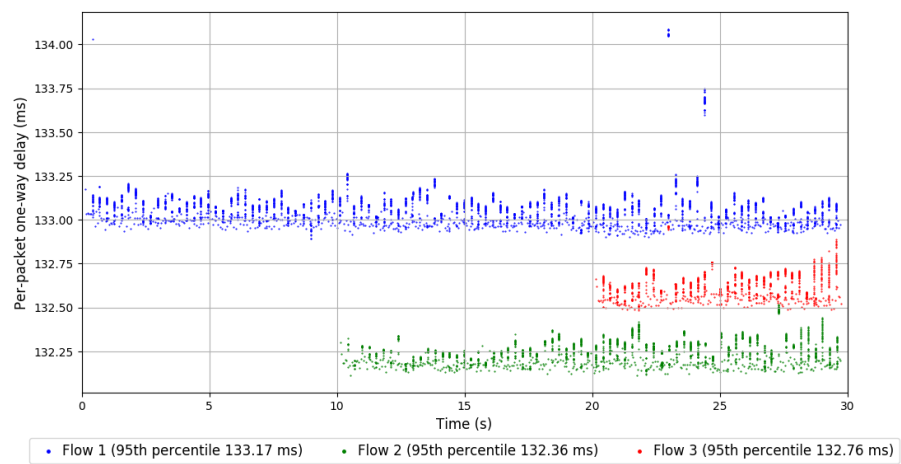
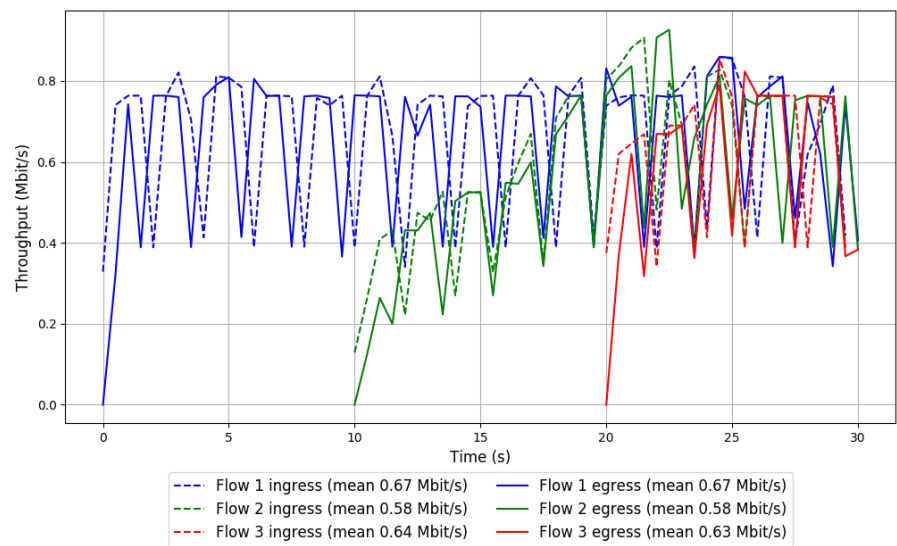


Run 1: Statistics of Sprout

Start at: 2019-09-18 16:20:36  
End at: 2019-09-18 16:21:06  
Local clock offset: 0.077 ms  
Remote clock offset: -0.203 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.26 Mbit/s  
95th percentile per-packet one-way delay: 133.139 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 0.67 Mbit/s  
95th percentile per-packet one-way delay: 133.171 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 0.58 Mbit/s  
95th percentile per-packet one-way delay: 132.358 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 132.757 ms  
Loss rate: 3.04%

Run 1: Report of Sprout — Data Link

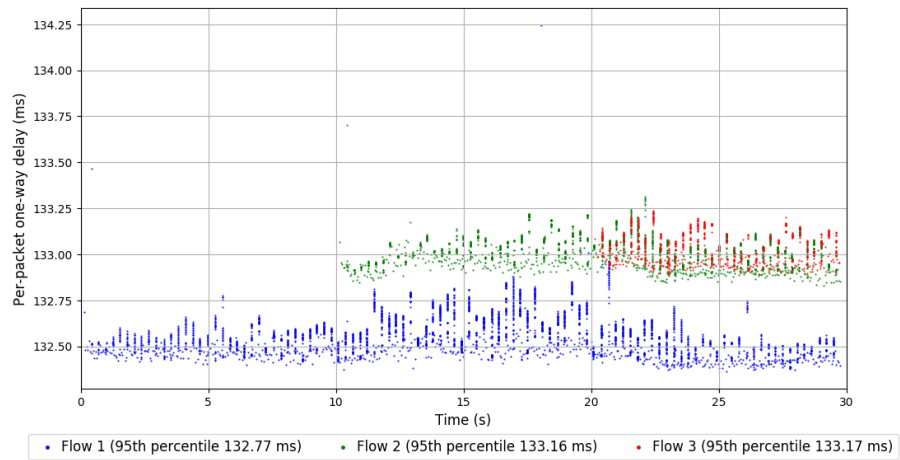
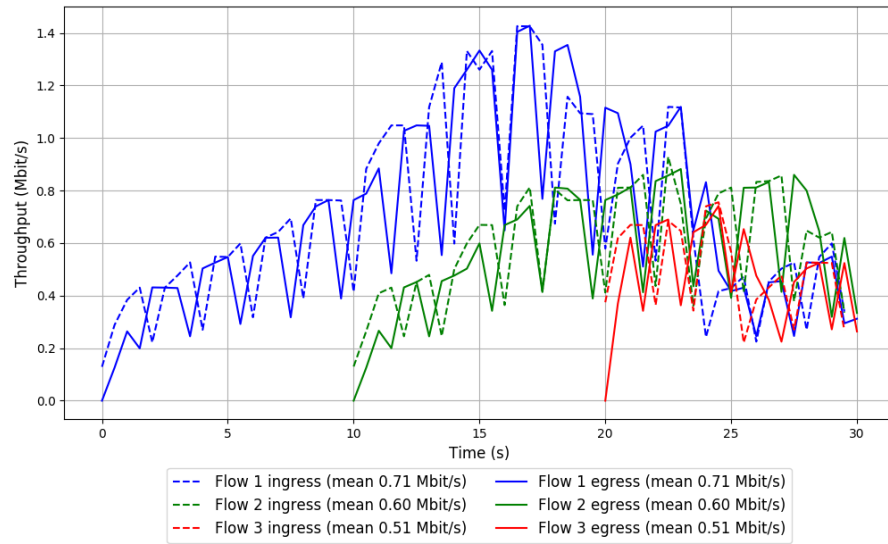


Run 2: Statistics of Sprout

Start at: 2019-09-18 17:04:51  
End at: 2019-09-18 17:05:21  
Local clock offset: -0.455 ms  
Remote clock offset: -0.571 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.27 Mbit/s  
95th percentile per-packet one-way delay: 133.122 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 132.766 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 133.159 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.51 Mbit/s  
95th percentile per-packet one-way delay: 133.171 ms  
Loss rate: 2.62%

## Run 2: Report of Sprout — Data Link



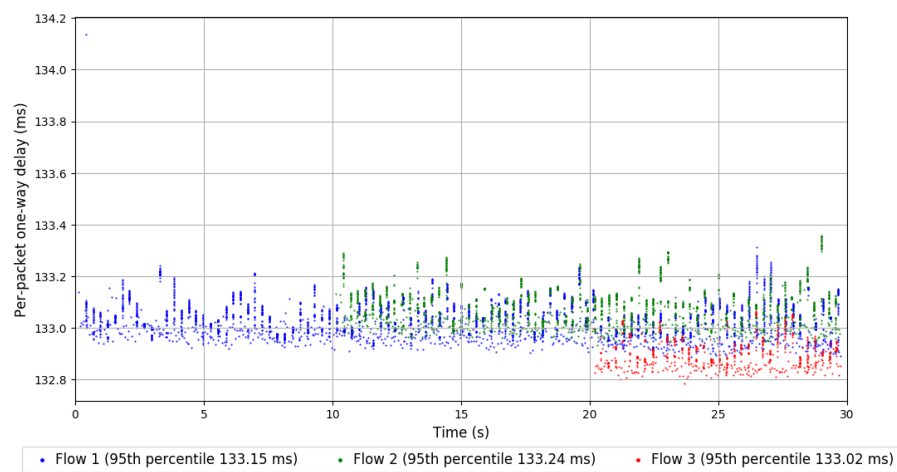
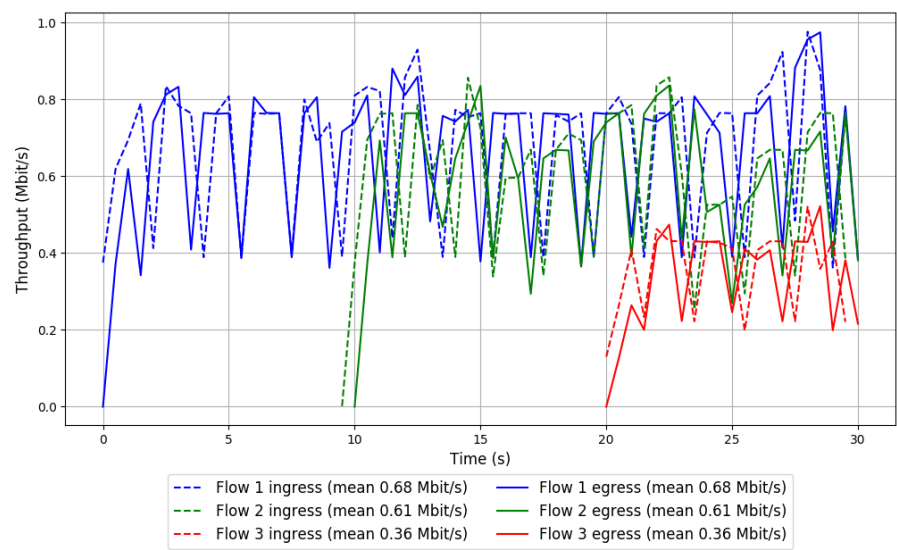


Run 3: Statistics of Sprout

Start at: 2019-09-18 17:49:12  
End at: 2019-09-18 17:49:42  
Local clock offset: -0.042 ms  
Remote clock offset: -0.156 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.20 Mbit/s  
95th percentile per-packet one-way delay: 133.183 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 133.153 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 133.235 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 133.019 ms  
Loss rate: 3.05%

Run 3: Report of Sprout — Data Link

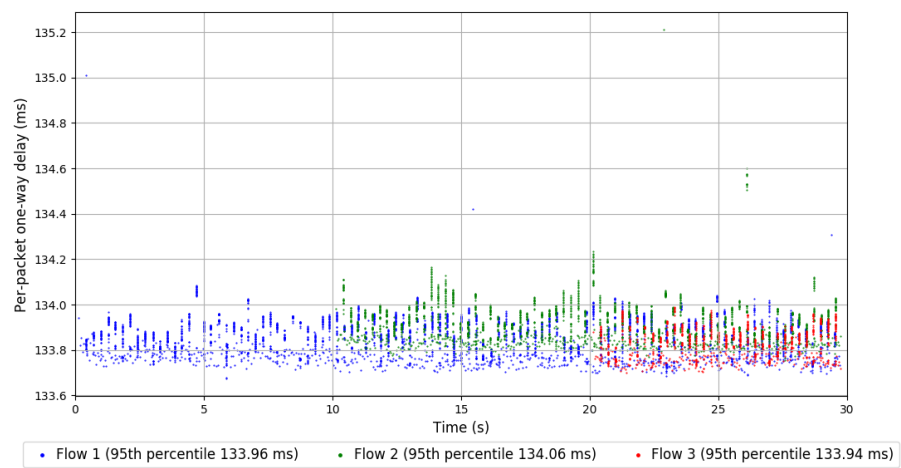
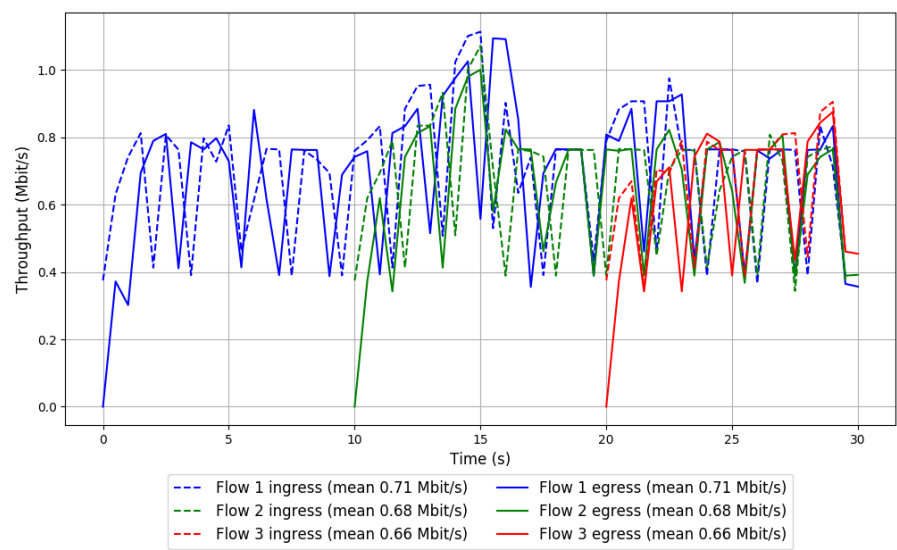


Run 4: Statistics of Sprout

Start at: 2019-09-18 18:33:27  
End at: 2019-09-18 18:33:57  
Local clock offset: 0.399 ms  
Remote clock offset: -0.514 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.37 Mbit/s  
95th percentile per-packet one-way delay: 134.004 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 133.963 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 134.056 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 0.66 Mbit/s  
95th percentile per-packet one-way delay: 133.940 ms  
Loss rate: 3.45%

Run 4: Report of Sprout — Data Link

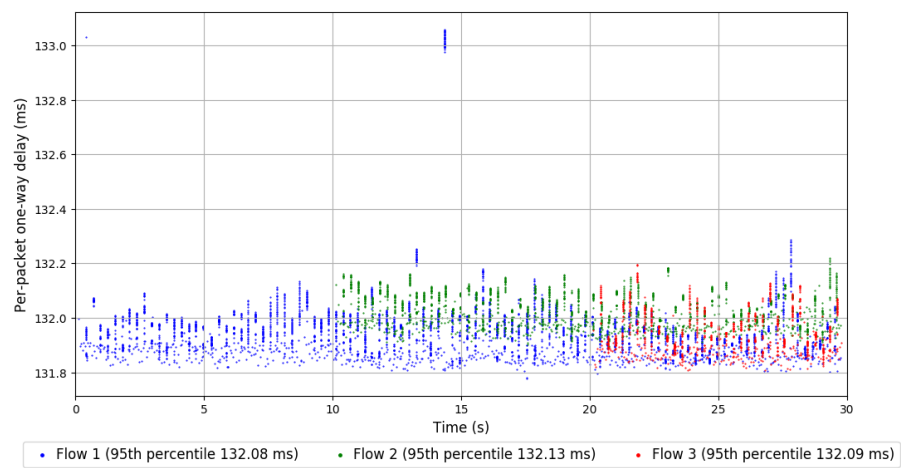
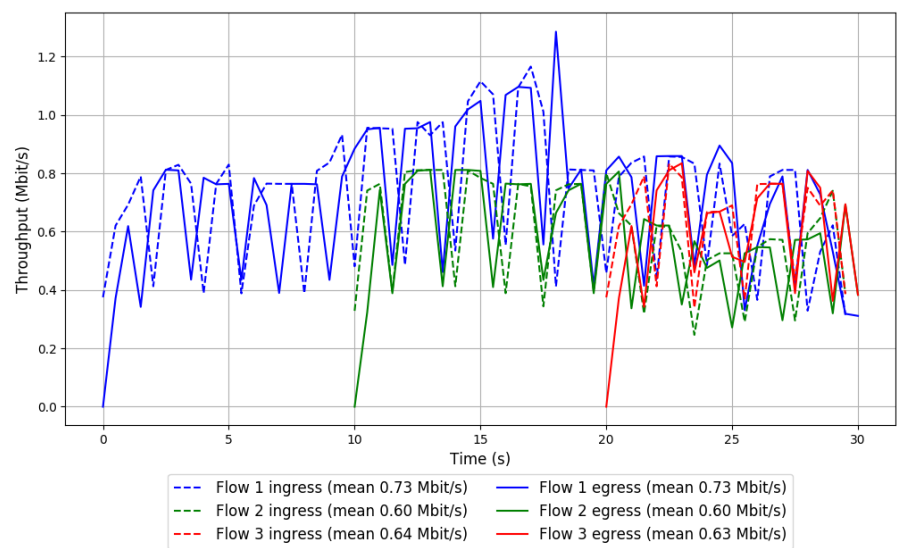


Run 5: Statistics of Sprout

Start at: 2019-09-18 19:17:31  
End at: 2019-09-18 19:18:01  
Local clock offset: -0.47 ms  
Remote clock offset: 0.453 ms

# Below is generated by plot.py at 2019-09-18 21:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.33 Mbit/s  
95th percentile per-packet one-way delay: 132.114 ms  
Loss rate: 1.34%  
-- Flow 1:  
Average throughput: 0.73 Mbit/s  
95th percentile per-packet one-way delay: 132.084 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 0.60 Mbit/s  
95th percentile per-packet one-way delay: 132.130 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 0.63 Mbit/s  
95th percentile per-packet one-way delay: 132.091 ms  
Loss rate: 3.04%

Run 5: Report of Sprout — Data Link

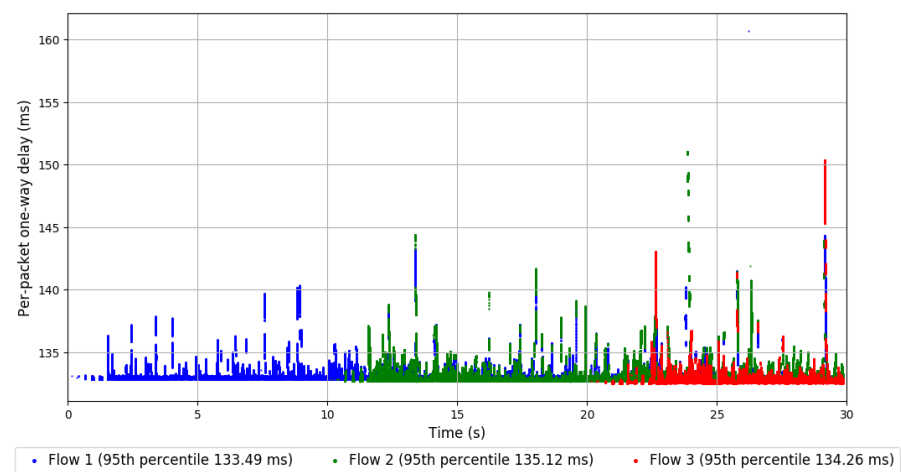
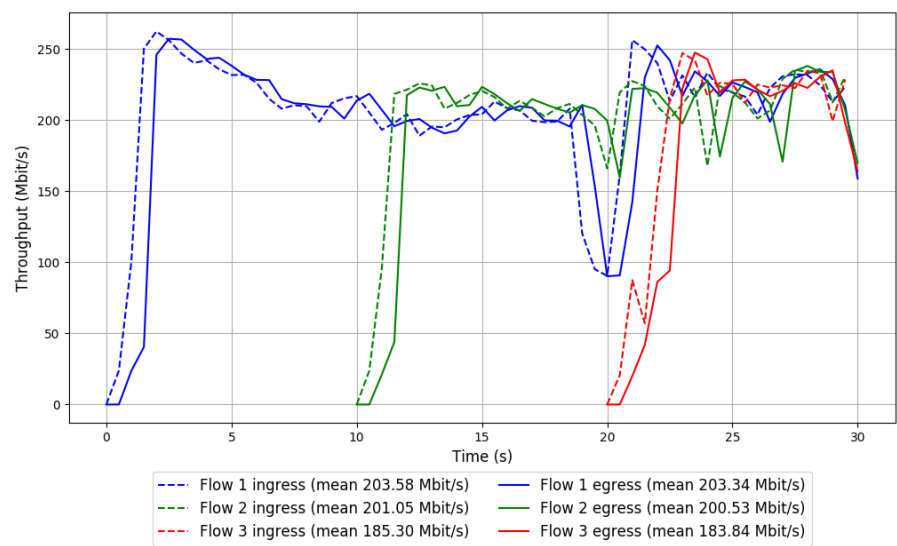


Run 1: Statistics of TaoVA-100x

Start at: 2019-09-18 16:05:47  
End at: 2019-09-18 16:06:17  
Local clock offset: -0.274 ms  
Remote clock offset: -0.265 ms

# Below is generated by plot.py at 2019-09-18 21:58:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 396.32 Mbit/s  
95th percentile per-packet one-way delay: 134.255 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 203.34 Mbit/s  
95th percentile per-packet one-way delay: 133.494 ms  
Loss rate: 1.00%  
-- Flow 2:  
Average throughput: 200.53 Mbit/s  
95th percentile per-packet one-way delay: 135.119 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 183.84 Mbit/s  
95th percentile per-packet one-way delay: 134.262 ms  
Loss rate: 3.42%

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



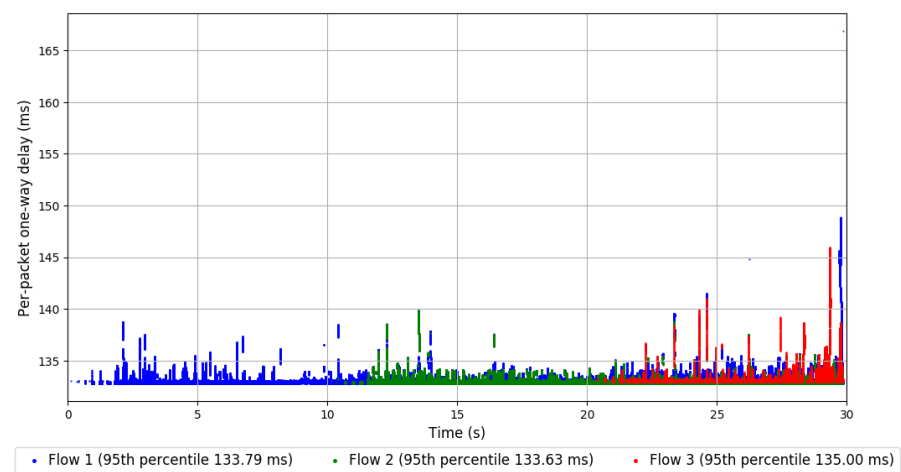
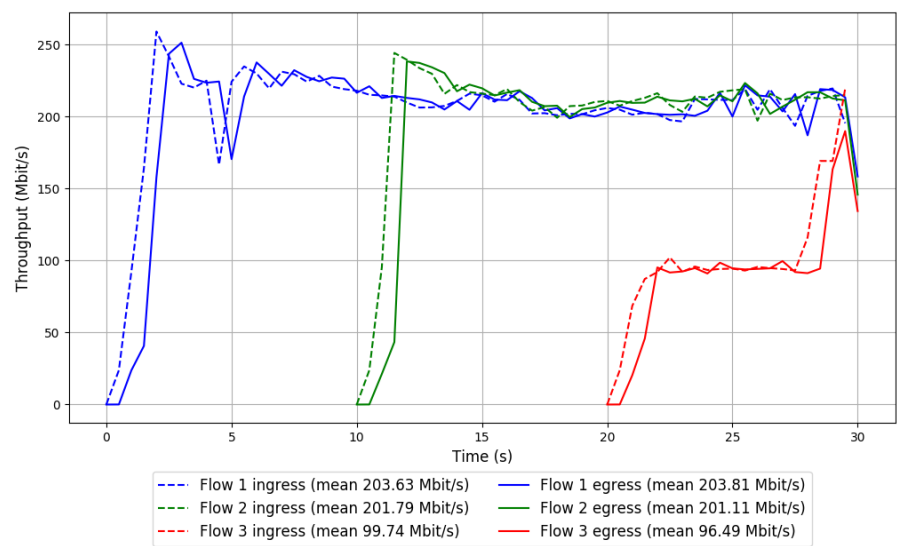


Run 2: Statistics of TaoVA-100x

Start at: 2019-09-18 16:50:06  
End at: 2019-09-18 16:50:36  
Local clock offset: -0.141 ms  
Remote clock offset: -0.197 ms

# Below is generated by plot.py at 2019-09-18 21:58:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 368.57 Mbit/s  
95th percentile per-packet one-way delay: 133.799 ms  
Loss rate: 1.53%  
-- Flow 1:  
Average throughput: 203.81 Mbit/s  
95th percentile per-packet one-way delay: 133.792 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 201.11 Mbit/s  
95th percentile per-packet one-way delay: 133.627 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 135.000 ms  
Loss rate: 5.85%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-09-18 17:34:09

End at: 2019-09-18 17:34:39

Local clock offset: -0.094 ms

Remote clock offset: 0.23 ms

# Below is generated by plot.py at 2019-09-18 21:59:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 394.34 Mbit/s

95th percentile per-packet one-way delay: 133.120 ms

Loss rate: 1.59%

-- Flow 1:

Average throughput: 207.90 Mbit/s

95th percentile per-packet one-way delay: 132.522 ms

Loss rate: 1.01%

-- Flow 2:

Average throughput: 178.28 Mbit/s

95th percentile per-packet one-way delay: 133.444 ms

Loss rate: 1.67%

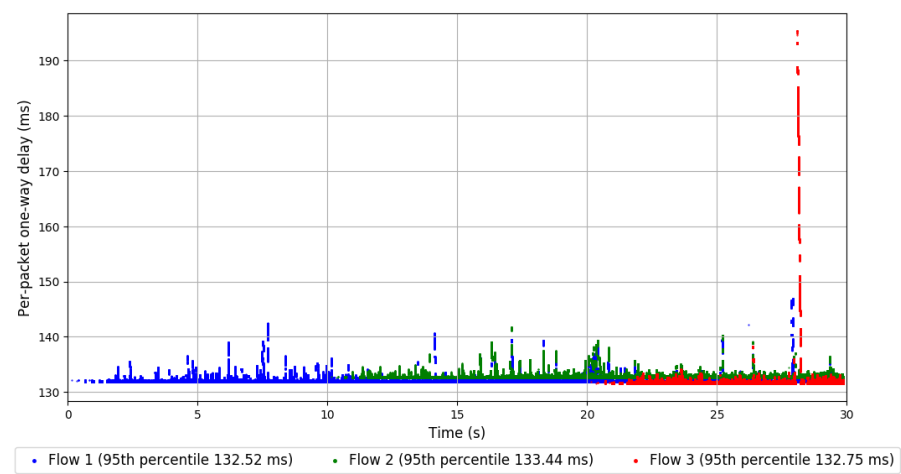
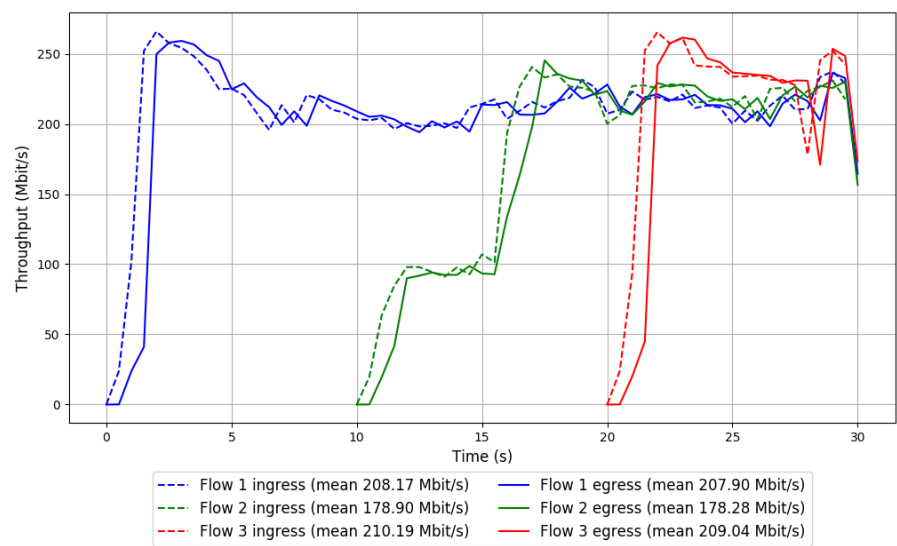
-- Flow 3:

Average throughput: 209.04 Mbit/s

95th percentile per-packet one-way delay: 132.753 ms

Loss rate: 3.18%

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

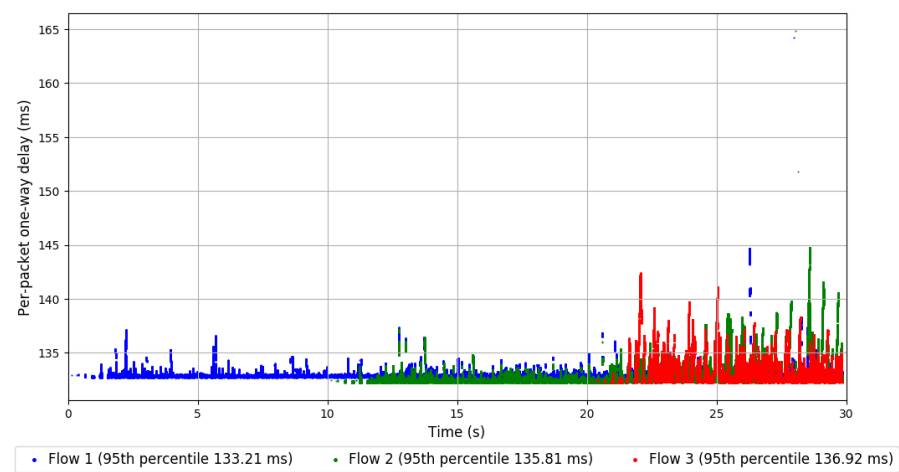
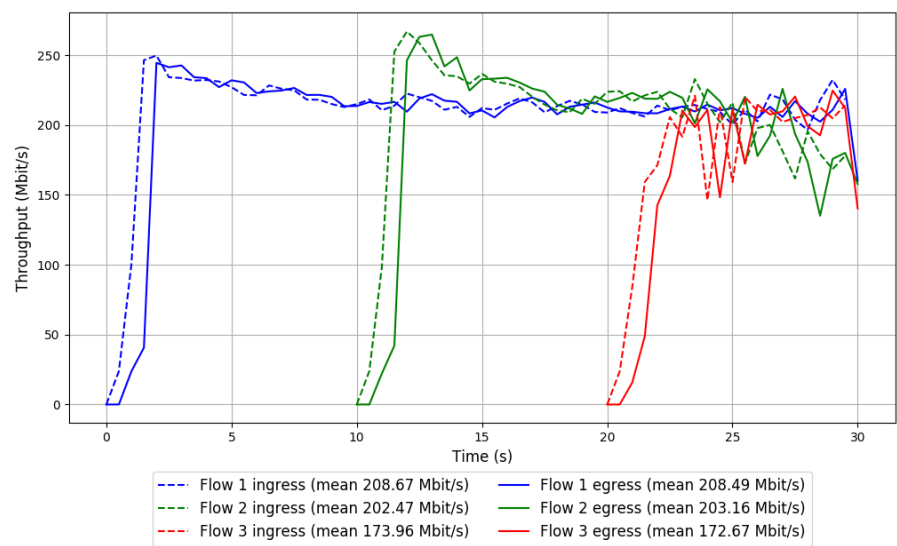


Run 4: Statistics of TaoVA-100x

Start at: 2019-09-18 18:18:28  
End at: 2019-09-18 18:18:58  
Local clock offset: -0.037 ms  
Remote clock offset: -0.155 ms

# Below is generated by plot.py at 2019-09-18 21:59:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 399.47 Mbit/s  
95th percentile per-packet one-way delay: 135.000 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 208.49 Mbit/s  
95th percentile per-packet one-way delay: 133.207 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 203.16 Mbit/s  
95th percentile per-packet one-way delay: 135.806 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 172.67 Mbit/s  
95th percentile per-packet one-way delay: 136.919 ms  
Loss rate: 3.42%

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

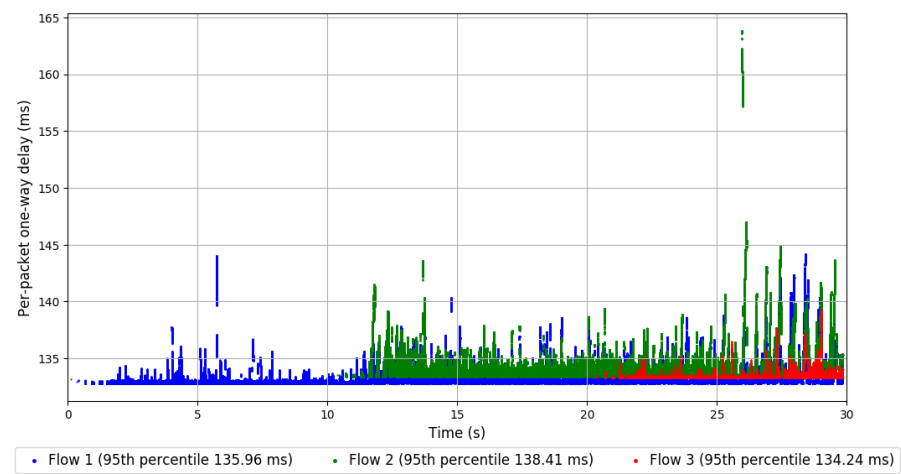
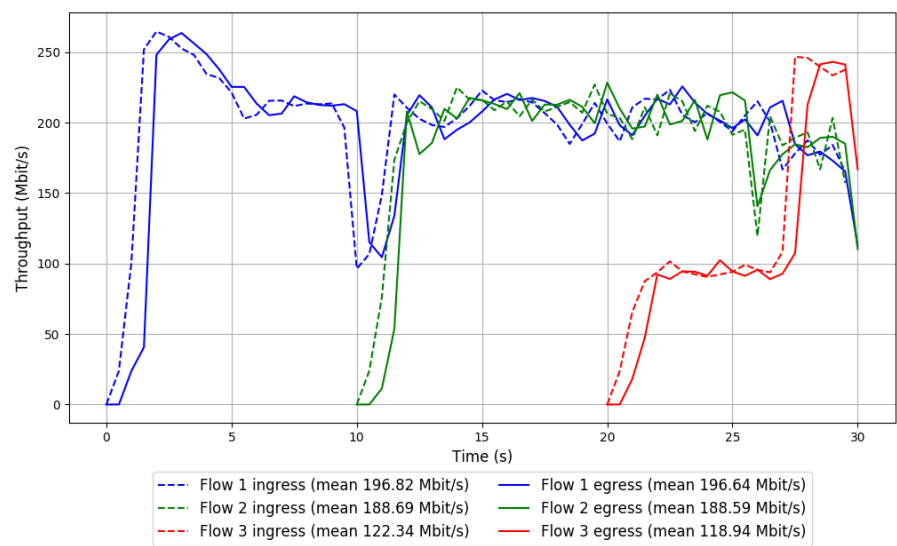


Run 5: Statistics of TaoVA-100x

Start at: 2019-09-18 19:02:37  
End at: 2019-09-18 19:03:07  
Local clock offset: -0.477 ms  
Remote clock offset: -1.135 ms

# Below is generated by plot.py at 2019-09-18 21:59:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 360.23 Mbit/s  
95th percentile per-packet one-way delay: 136.742 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 196.64 Mbit/s  
95th percentile per-packet one-way delay: 135.964 ms  
Loss rate: 0.99%  
-- Flow 2:  
Average throughput: 188.59 Mbit/s  
95th percentile per-packet one-way delay: 138.410 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 118.94 Mbit/s  
95th percentile per-packet one-way delay: 134.235 ms  
Loss rate: 5.38%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-09-18 15:58:00

End at: 2019-09-18 15:58:30

Local clock offset: -0.129 ms

Remote clock offset: -0.33 ms

# Below is generated by plot.py at 2019-09-18 22:03:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 716.57 Mbit/s

95th percentile per-packet one-way delay: 209.293 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 342.10 Mbit/s

95th percentile per-packet one-way delay: 134.880 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 457.20 Mbit/s

95th percentile per-packet one-way delay: 214.235 ms

Loss rate: 1.80%

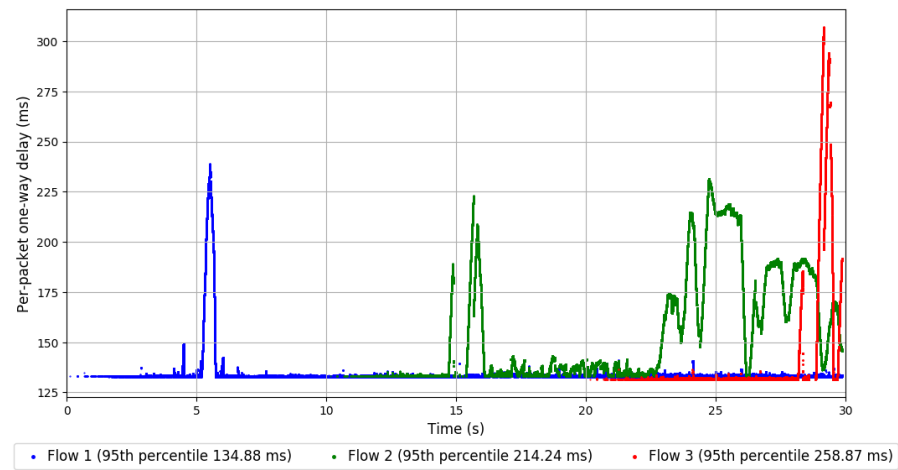
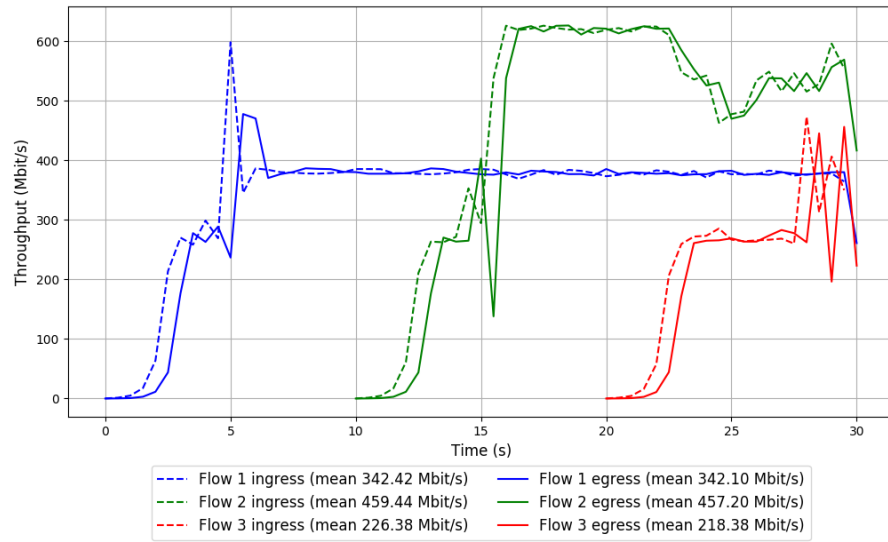
-- Flow 3:

Average throughput: 218.38 Mbit/s

95th percentile per-packet one-way delay: 258.866 ms

Loss rate: 6.08%

# Run 1: Report of TCP Vegas — Data Link

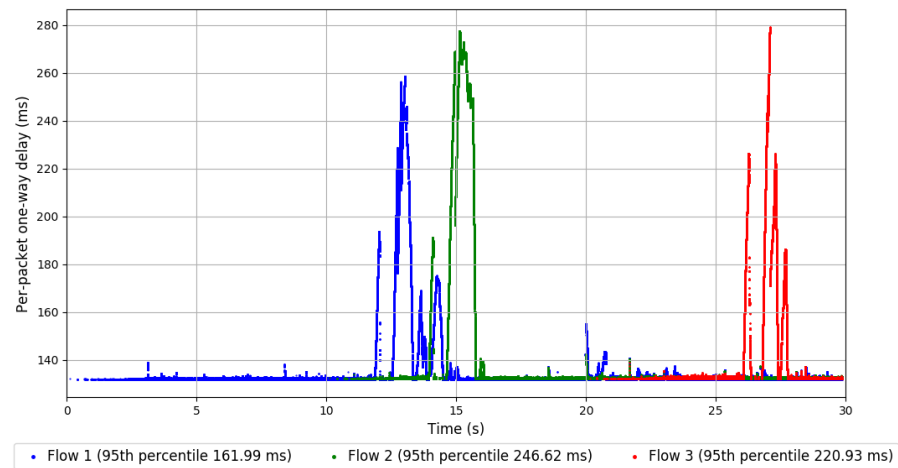
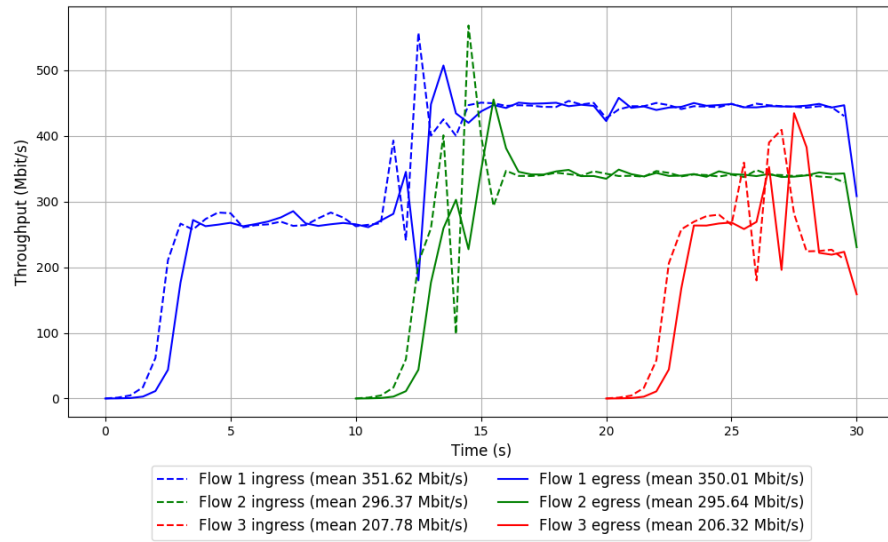


Run 2: Statistics of TCP Vegas

Start at: 2019-09-18 16:42:42  
End at: 2019-09-18 16:43:12  
Local clock offset: -0.243 ms  
Remote clock offset: -0.173 ms

# Below is generated by plot.py at 2019-09-18 22:05:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 613.52 Mbit/s  
95th percentile per-packet one-way delay: 194.457 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 350.01 Mbit/s  
95th percentile per-packet one-way delay: 161.986 ms  
Loss rate: 1.33%  
-- Flow 2:  
Average throughput: 295.64 Mbit/s  
95th percentile per-packet one-way delay: 246.617 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 206.32 Mbit/s  
95th percentile per-packet one-way delay: 220.933 ms  
Loss rate: 3.33%

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

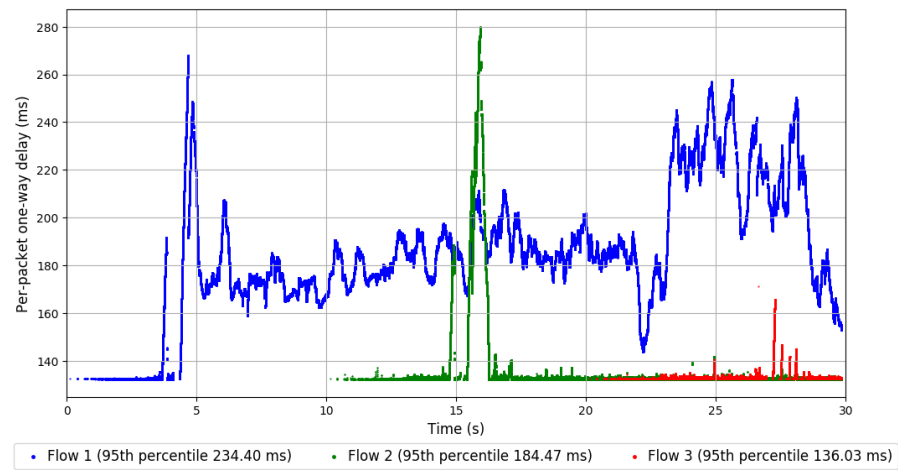
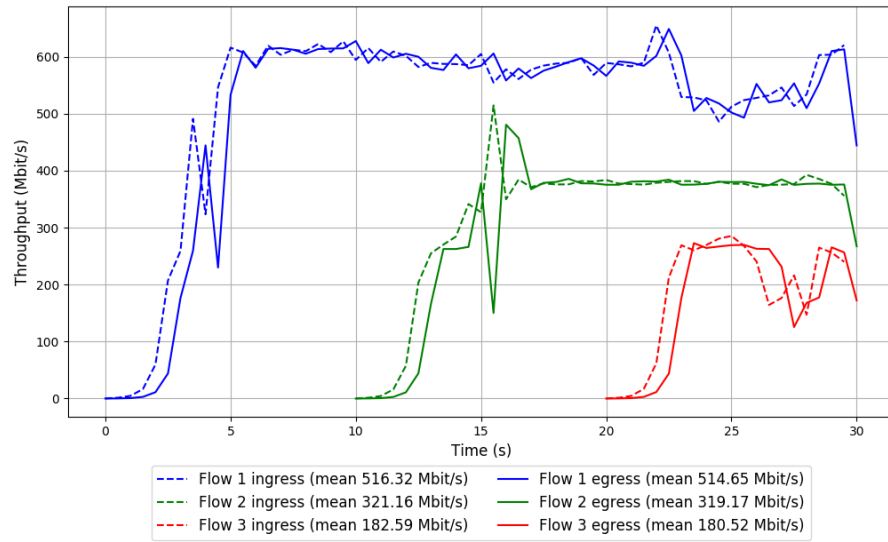


Run 3: Statistics of TCP Vegas

Start at: 2019-09-18 17:26:32  
End at: 2019-09-18 17:27:02  
Local clock offset: -0.543 ms  
Remote clock offset: -0.162 ms

# Below is generated by plot.py at 2019-09-18 22:08:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 785.21 Mbit/s  
95th percentile per-packet one-way delay: 230.404 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 514.65 Mbit/s  
95th percentile per-packet one-way delay: 234.398 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 319.17 Mbit/s  
95th percentile per-packet one-way delay: 184.466 ms  
Loss rate: 1.94%  
-- Flow 3:  
Average throughput: 180.52 Mbit/s  
95th percentile per-packet one-way delay: 136.028 ms  
Loss rate: 3.74%

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

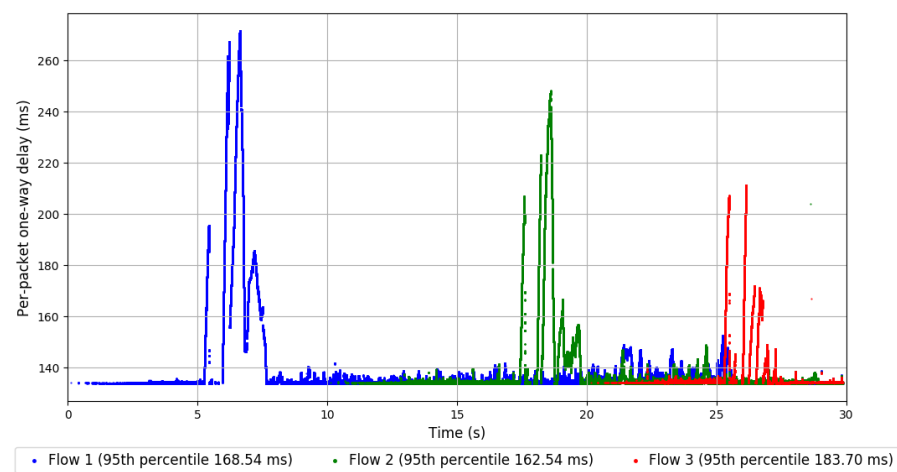
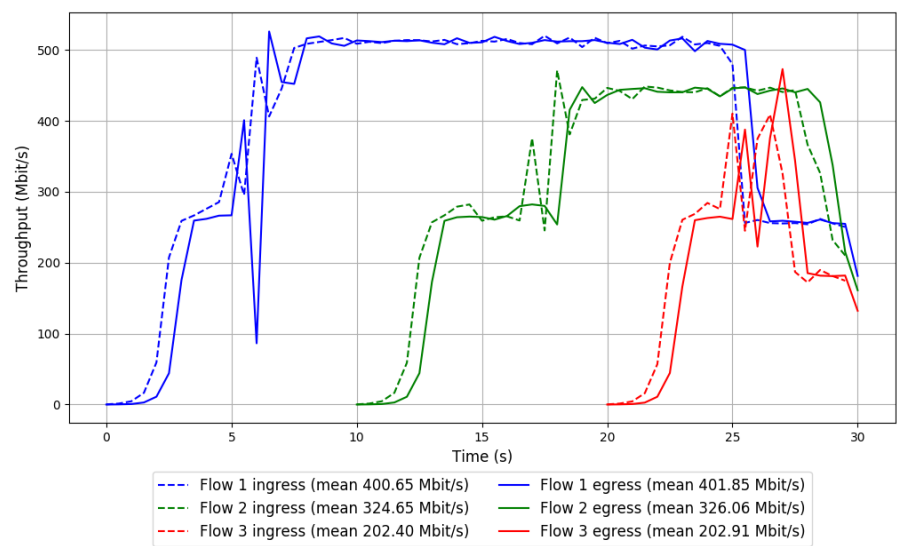


Run 4: Statistics of TCP Vegas

Start at: 2019-09-18 18:10:39  
End at: 2019-09-18 18:11:09  
Local clock offset: -0.028 ms  
Remote clock offset: -1.143 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 684.44 Mbit/s  
95th percentile per-packet one-way delay: 169.327 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 401.85 Mbit/s  
95th percentile per-packet one-way delay: 168.541 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 326.06 Mbit/s  
95th percentile per-packet one-way delay: 162.545 ms  
Loss rate: 0.90%  
-- Flow 3:  
Average throughput: 202.91 Mbit/s  
95th percentile per-packet one-way delay: 183.702 ms  
Loss rate: 2.41%

Run 4: Report of TCP Vegas — Data Link



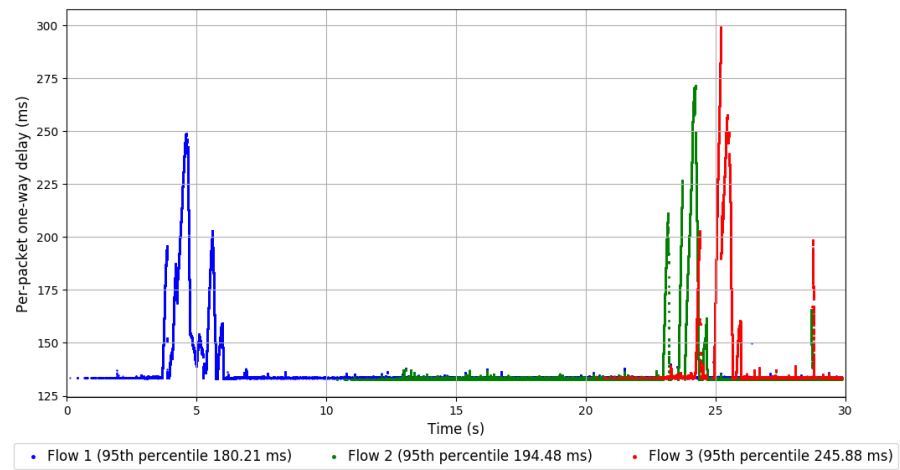
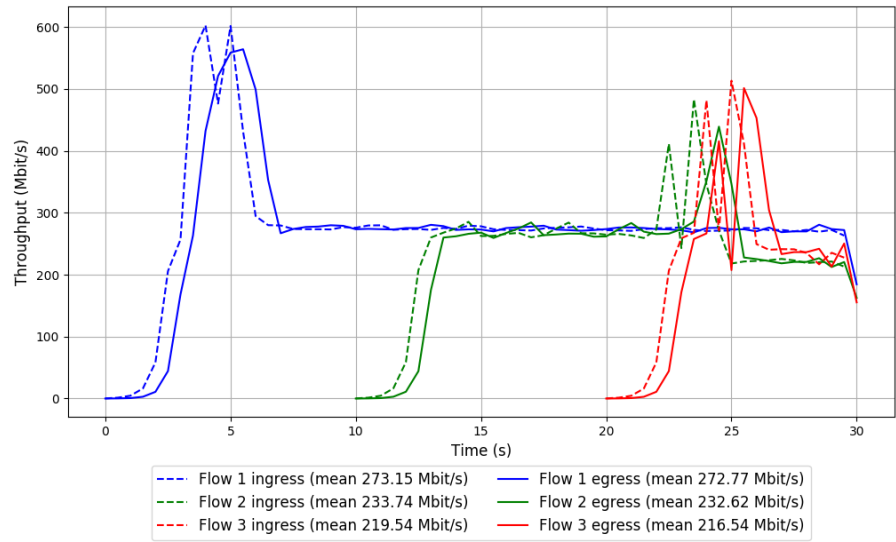


Run 5: Statistics of TCP Vegas

Start at: 2019-09-18 18:54:54  
End at: 2019-09-18 18:55:24  
Local clock offset: 0.186 ms  
Remote clock offset: -0.491 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 497.76 Mbit/s  
95th percentile per-packet one-way delay: 197.203 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 272.77 Mbit/s  
95th percentile per-packet one-way delay: 180.210 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 232.62 Mbit/s  
95th percentile per-packet one-way delay: 194.482 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 216.54 Mbit/s  
95th percentile per-packet one-way delay: 245.879 ms  
Loss rate: 3.99%

# Run 5: Report of TCP Vegas — Data Link

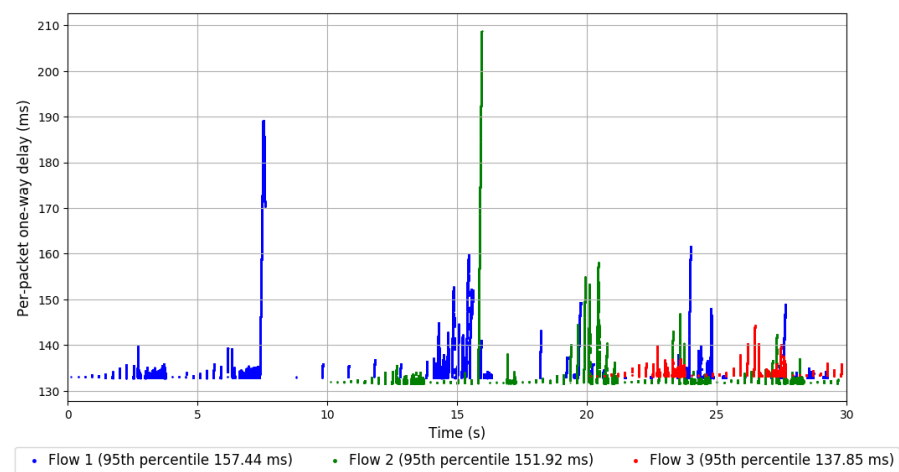
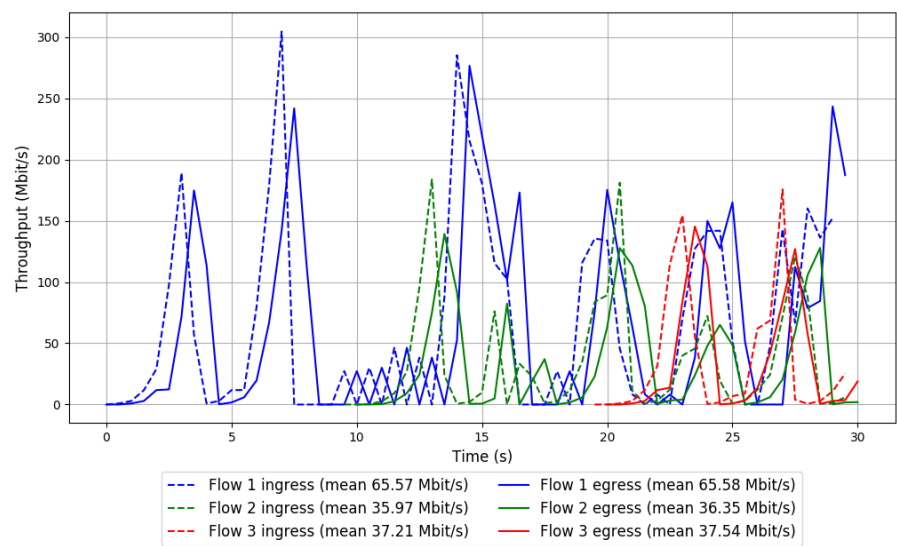


Run 1: Statistics of Verus

Start at: 2019-09-18 15:46:58  
End at: 2019-09-18 15:47:28  
Local clock offset: 0.17 ms  
Remote clock offset: -0.224 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 100.60 Mbit/s  
95th percentile per-packet one-way delay: 152.596 ms  
Loss rate: 0.29%  
-- Flow 1:  
Average throughput: 65.58 Mbit/s  
95th percentile per-packet one-way delay: 157.436 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 36.35 Mbit/s  
95th percentile per-packet one-way delay: 151.923 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 37.54 Mbit/s  
95th percentile per-packet one-way delay: 137.853 ms  
Loss rate: 1.85%

Run 1: Report of Verus — Data Link

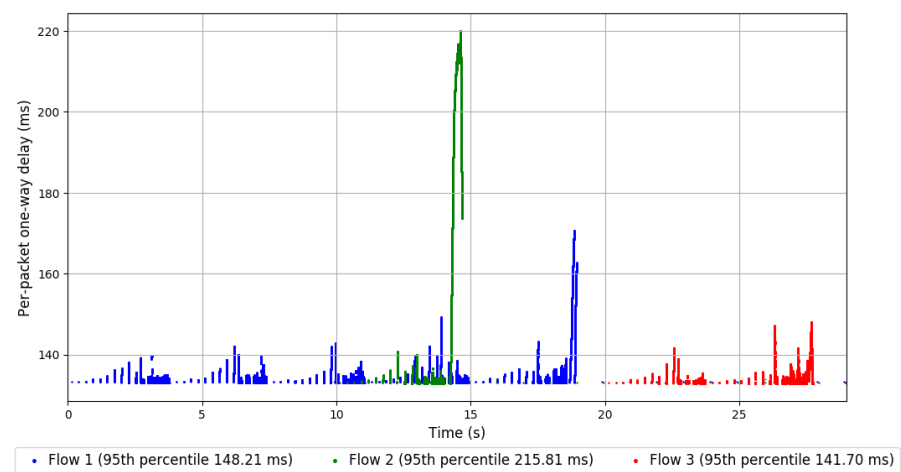
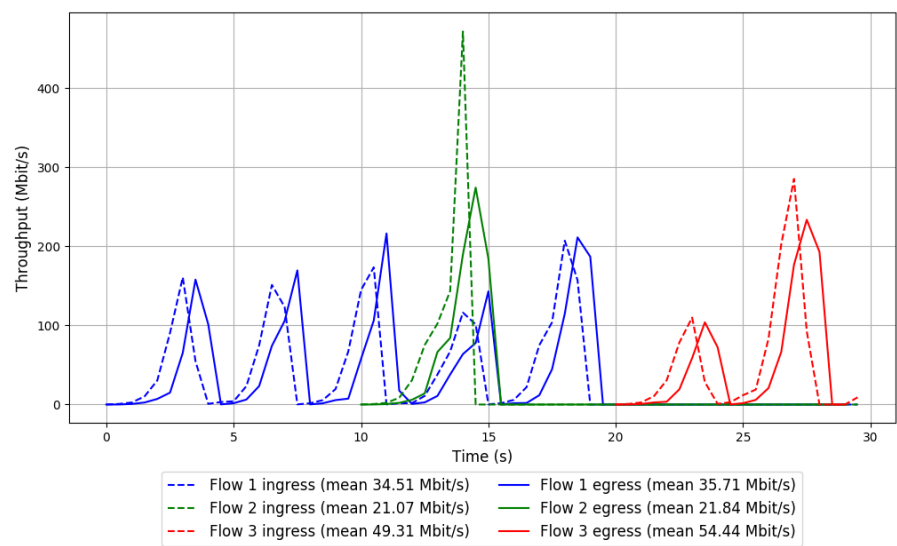


Run 2: Statistics of Verus

Start at: 2019-09-18 16:31:38  
End at: 2019-09-18 16:32:08  
Local clock offset: 0.164 ms  
Remote clock offset: -0.188 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.55 Mbit/s  
95th percentile per-packet one-way delay: 209.803 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 35.71 Mbit/s  
95th percentile per-packet one-way delay: 148.214 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 21.84 Mbit/s  
95th percentile per-packet one-way delay: 215.806 ms  
Loss rate: 1.55%  
-- Flow 3:  
Average throughput: 54.44 Mbit/s  
95th percentile per-packet one-way delay: 141.704 ms  
Loss rate: 0.94%

Run 2: Report of Verus — Data Link

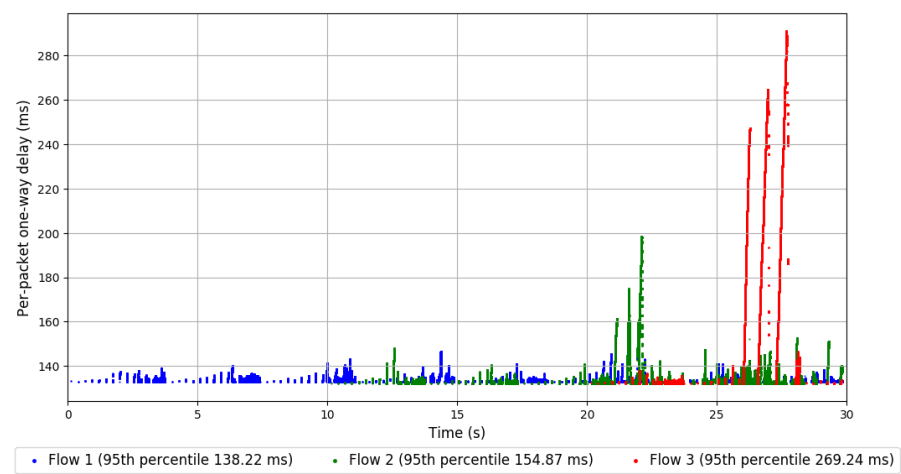
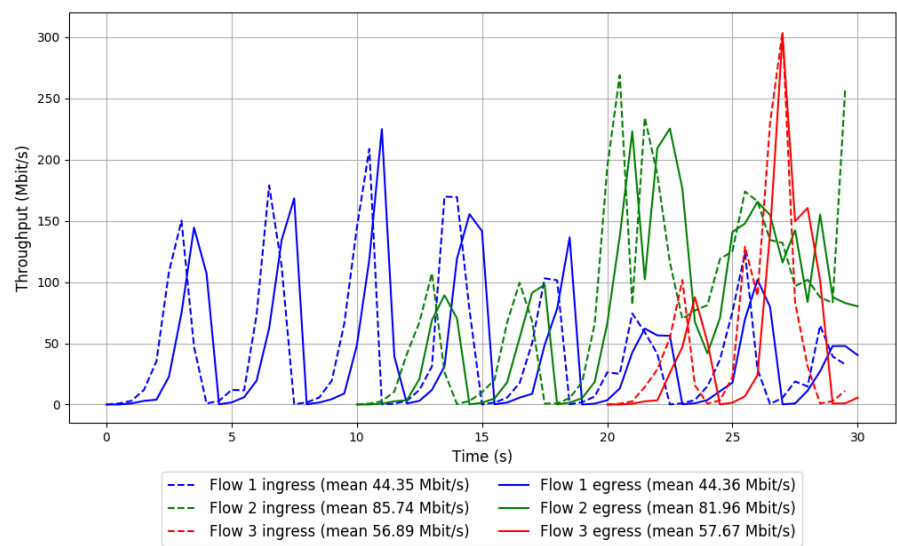


Run 3: Statistics of Verus

Start at: 2019-09-18 17:15:31  
End at: 2019-09-18 17:16:01  
Local clock offset: -0.261 ms  
Remote clock offset: -0.285 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.41 Mbit/s  
95th percentile per-packet one-way delay: 211.543 ms  
Loss rate: 2.70%  
-- Flow 1:  
Average throughput: 44.36 Mbit/s  
95th percentile per-packet one-way delay: 138.225 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 81.96 Mbit/s  
95th percentile per-packet one-way delay: 154.872 ms  
Loss rate: 5.21%  
-- Flow 3:  
Average throughput: 57.67 Mbit/s  
95th percentile per-packet one-way delay: 269.244 ms  
Loss rate: 1.37%

Run 3: Report of Verus — Data Link



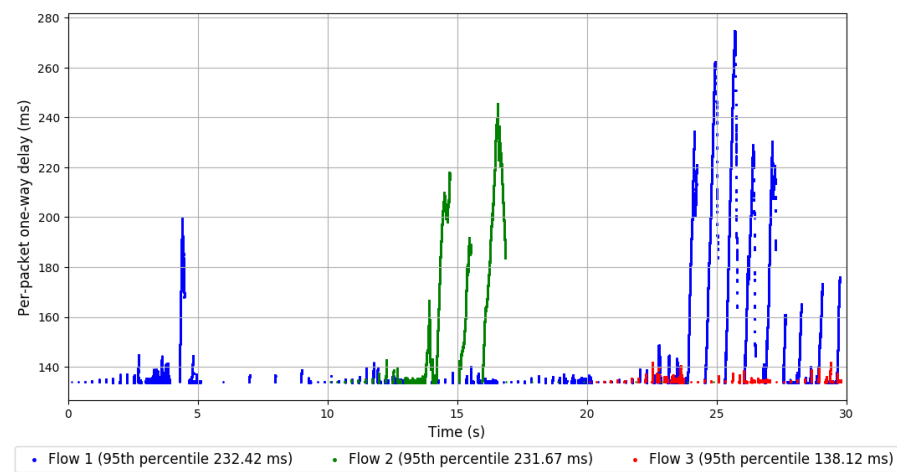
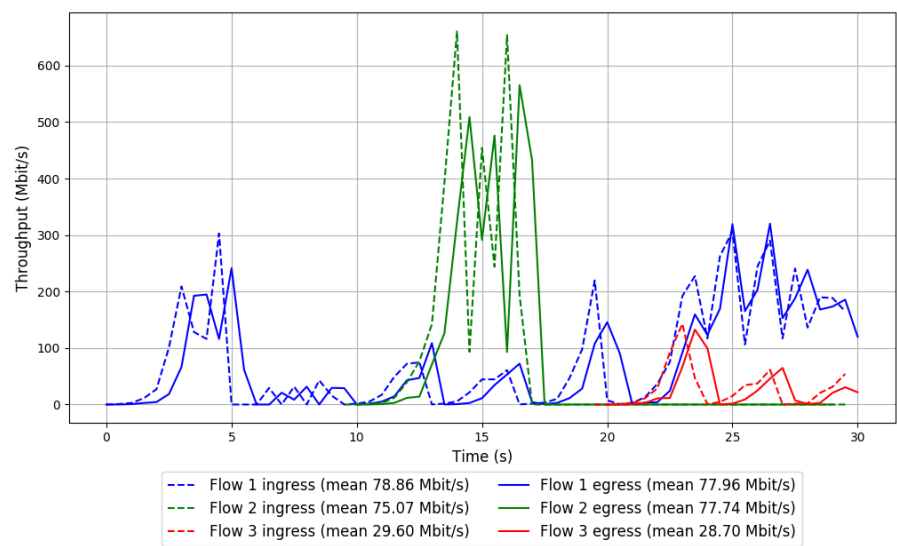


Run 4: Statistics of Verus

Start at: 2019-09-18 17:59:34  
End at: 2019-09-18 18:00:04  
Local clock offset: -0.046 ms  
Remote clock offset: -1.16 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 136.35 Mbit/s  
95th percentile per-packet one-way delay: 230.123 ms  
Loss rate: 2.23%  
-- Flow 1:  
Average throughput: 77.96 Mbit/s  
95th percentile per-packet one-way delay: 232.419 ms  
Loss rate: 2.14%  
-- Flow 2:  
Average throughput: 77.74 Mbit/s  
95th percentile per-packet one-way delay: 231.669 ms  
Loss rate: 1.69%  
-- Flow 3:  
Average throughput: 28.70 Mbit/s  
95th percentile per-packet one-way delay: 138.123 ms  
Loss rate: 5.68%

Run 4: Report of Verus — Data Link

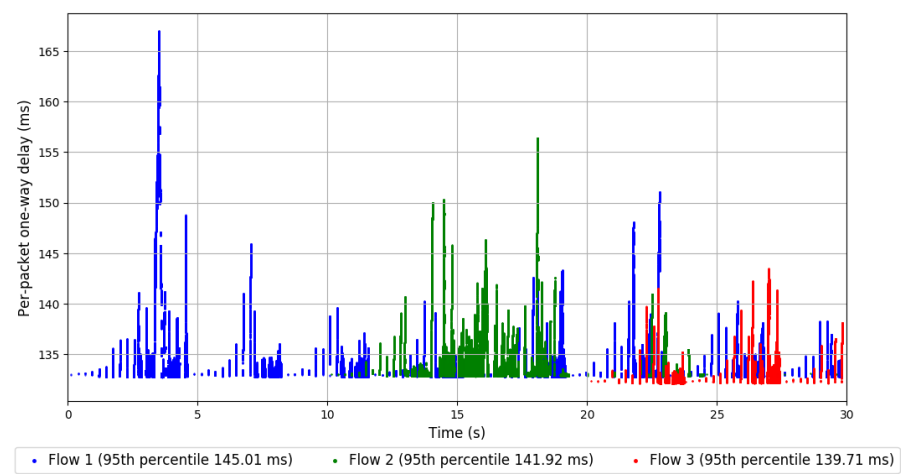
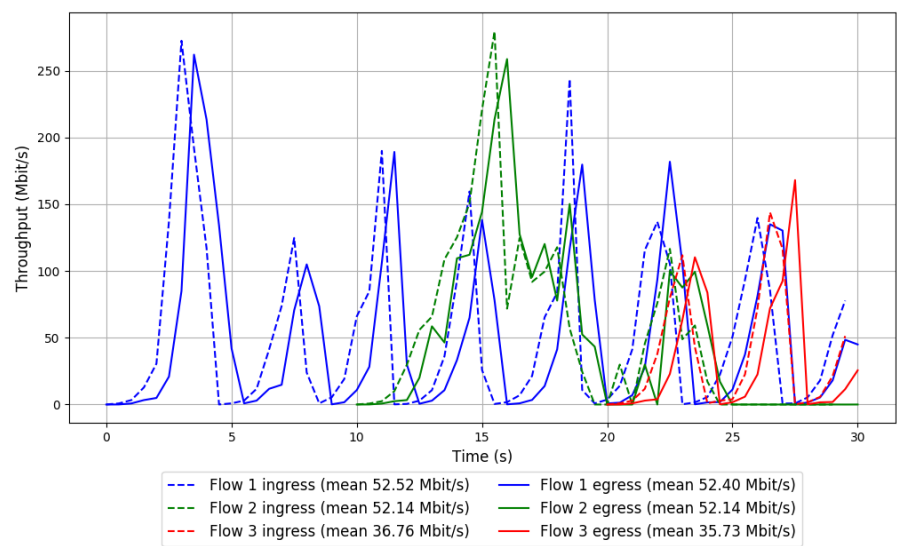


Run 5: Statistics of Verus

Start at: 2019-09-18 18:44:00  
End at: 2019-09-18 18:44:30  
Local clock offset: -0.214 ms  
Remote clock offset: -0.183 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 98.21 Mbit/s  
95th percentile per-packet one-way delay: 142.770 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 52.40 Mbit/s  
95th percentile per-packet one-way delay: 145.007 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 52.14 Mbit/s  
95th percentile per-packet one-way delay: 141.921 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 35.73 Mbit/s  
95th percentile per-packet one-way delay: 139.705 ms  
Loss rate: 5.38%

Run 5: Report of Verus — Data Link

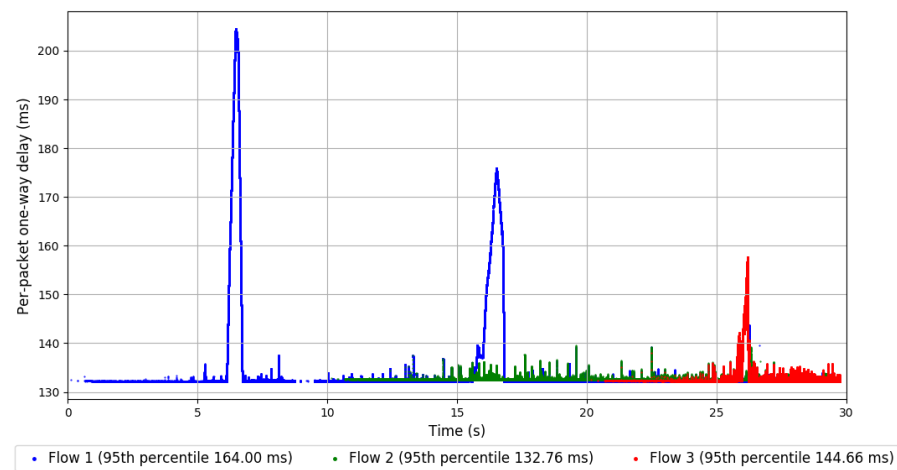
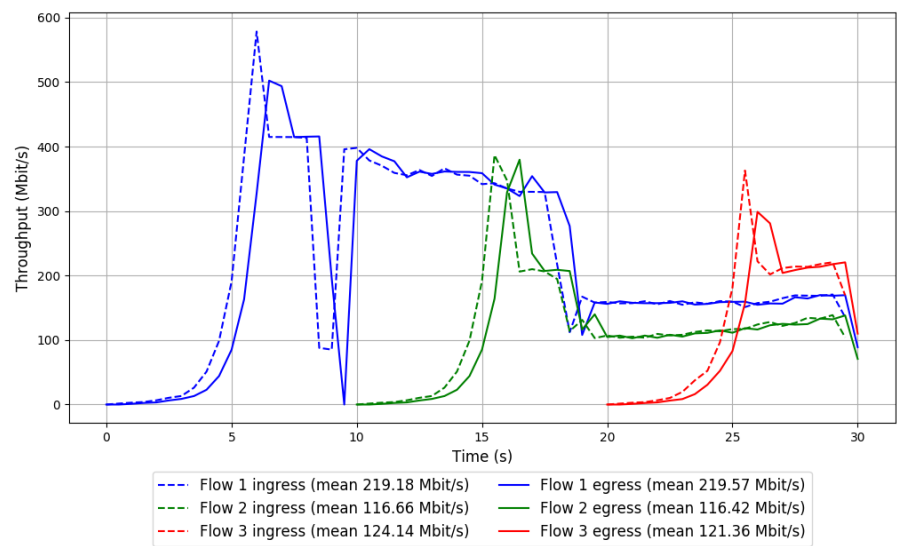


Run 1: Statistics of PCC-Vivace

Start at: 2019-09-18 16:00:03  
End at: 2019-09-18 16:00:33  
Local clock offset: -0.509 ms  
Remote clock offset: -0.233 ms

# Below is generated by plot.py at 2019-09-18 22:10:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.91 Mbit/s  
95th percentile per-packet one-way delay: 152.250 ms  
Loss rate: 1.40%  
-- Flow 1:  
Average throughput: 219.57 Mbit/s  
95th percentile per-packet one-way delay: 163.995 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 116.42 Mbit/s  
95th percentile per-packet one-way delay: 132.761 ms  
Loss rate: 1.53%  
-- Flow 3:  
Average throughput: 121.36 Mbit/s  
95th percentile per-packet one-way delay: 144.655 ms  
Loss rate: 4.87%

Run 1: Report of PCC-Vivace — Data Link

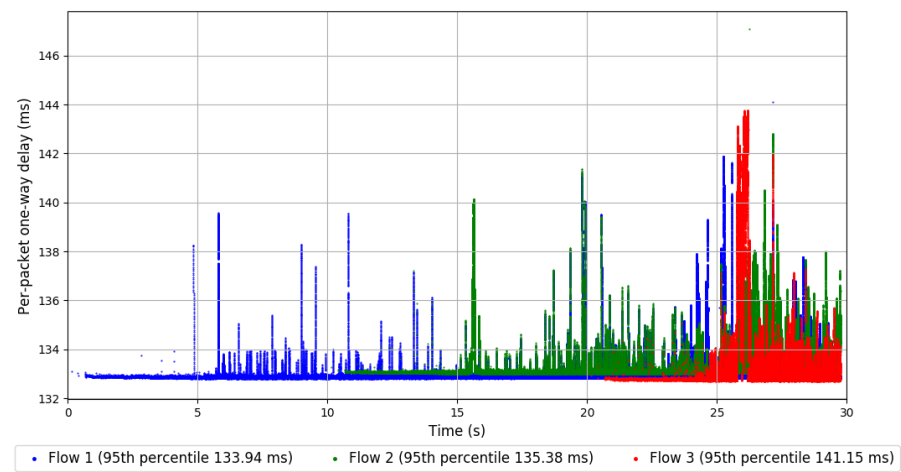
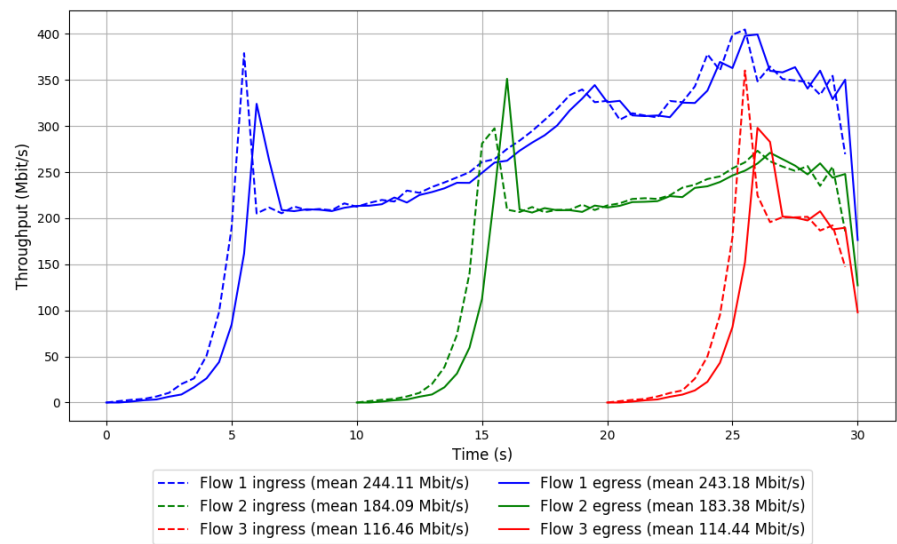


Run 2: Statistics of PCC-Vivace

Start at: 2019-09-18 16:44:40  
End at: 2019-09-18 16:45:10  
Local clock offset: -0.103 ms  
Remote clock offset: -0.205 ms

# Below is generated by plot.py at 2019-09-18 22:10:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 401.71 Mbit/s  
95th percentile per-packet one-way delay: 134.967 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 243.18 Mbit/s  
95th percentile per-packet one-way delay: 133.944 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 183.38 Mbit/s  
95th percentile per-packet one-way delay: 135.384 ms  
Loss rate: 1.72%  
-- Flow 3:  
Average throughput: 114.44 Mbit/s  
95th percentile per-packet one-way delay: 141.145 ms  
Loss rate: 4.37%

Run 2: Report of PCC-Vivace — Data Link



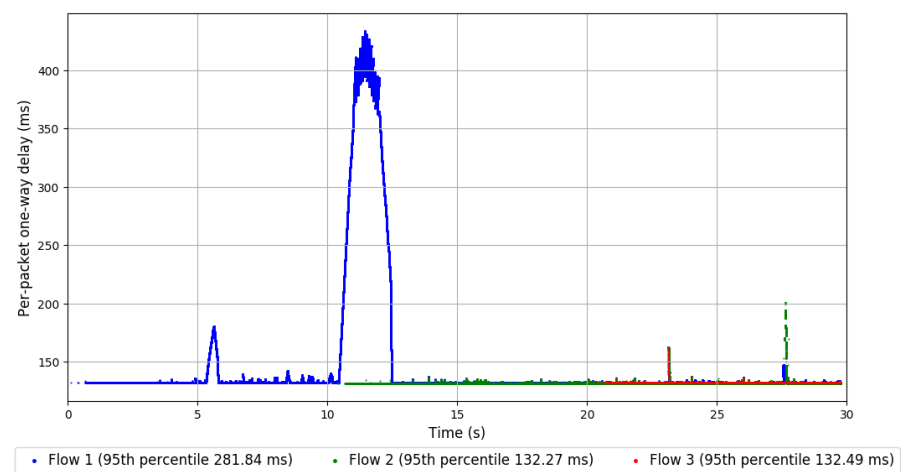
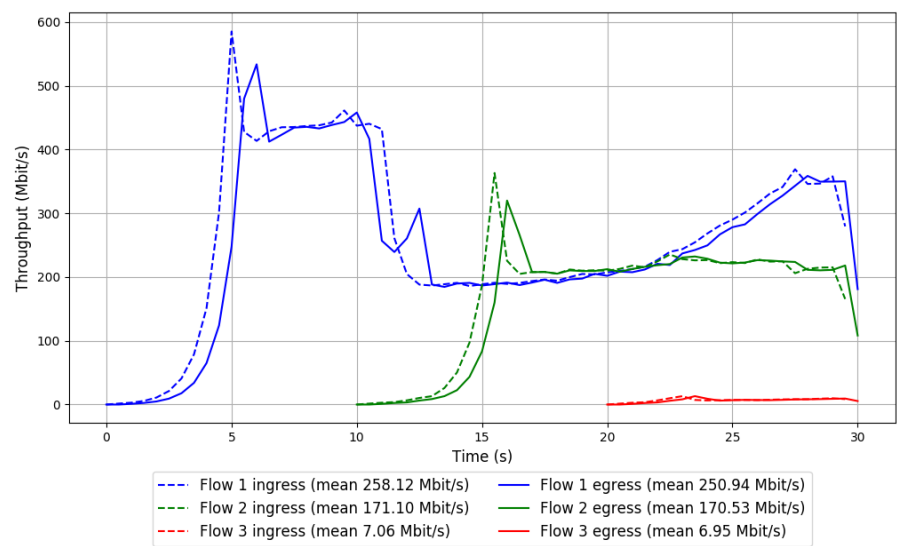


Run 3: Statistics of PCC-Vivace

Start at: 2019-09-18 17:28:39  
End at: 2019-09-18 17:29:09  
Local clock offset: -0.468 ms  
Remote clock offset: -0.262 ms

# Below is generated by plot.py at 2019-09-18 22:10:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 366.07 Mbit/s  
95th percentile per-packet one-way delay: 177.039 ms  
Loss rate: 3.05%  
-- Flow 1:  
Average throughput: 250.94 Mbit/s  
95th percentile per-packet one-way delay: 281.840 ms  
Loss rate: 3.65%  
-- Flow 2:  
Average throughput: 170.53 Mbit/s  
95th percentile per-packet one-way delay: 132.273 ms  
Loss rate: 1.68%  
-- Flow 3:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 132.494 ms  
Loss rate: 4.24%

Run 3: Report of PCC-Vivace — Data Link

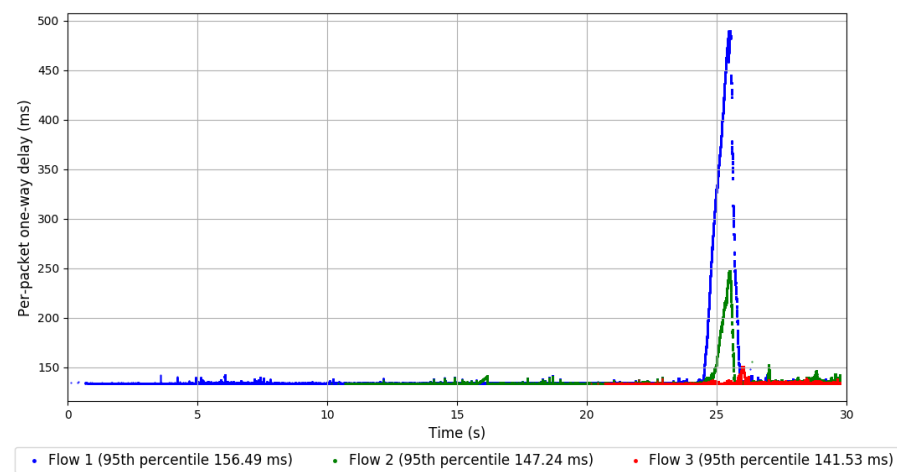
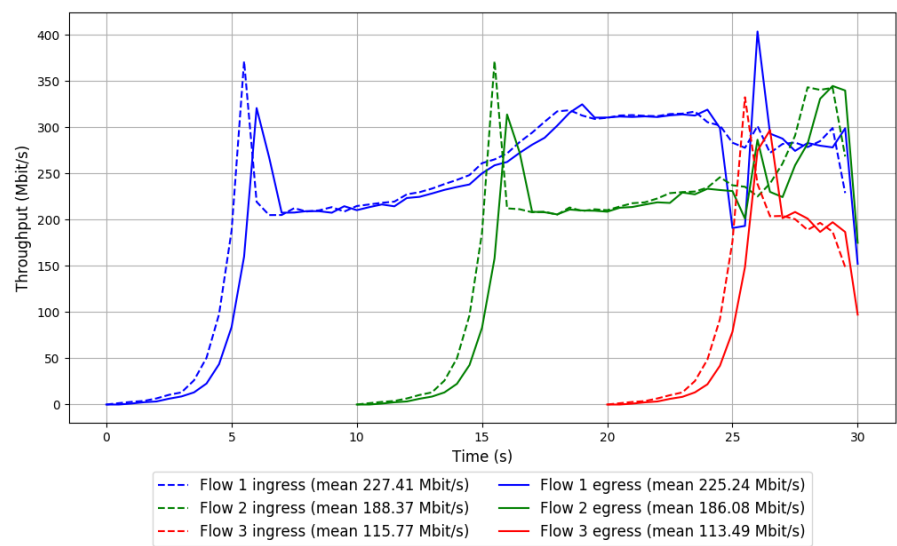


Run 4: Statistics of PCC-Vivace

Start at: 2019-09-18 18:12:41  
End at: 2019-09-18 18:13:11  
Local clock offset: -0.022 ms  
Remote clock offset: -1.174 ms

# Below is generated by plot.py at 2019-09-18 22:11:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 385.16 Mbit/s  
95th percentile per-packet one-way delay: 146.615 ms  
Loss rate: 2.32%  
-- Flow 1:  
Average throughput: 225.24 Mbit/s  
95th percentile per-packet one-way delay: 156.492 ms  
Loss rate: 1.83%  
-- Flow 2:  
Average throughput: 186.08 Mbit/s  
95th percentile per-packet one-way delay: 147.243 ms  
Loss rate: 2.53%  
-- Flow 3:  
Average throughput: 113.49 Mbit/s  
95th percentile per-packet one-way delay: 141.531 ms  
Loss rate: 4.59%

Run 4: Report of PCC-Vivace — Data Link

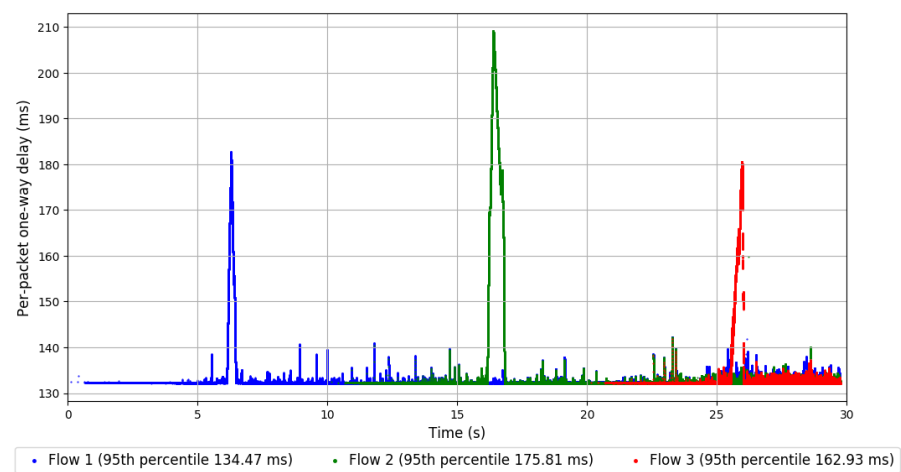
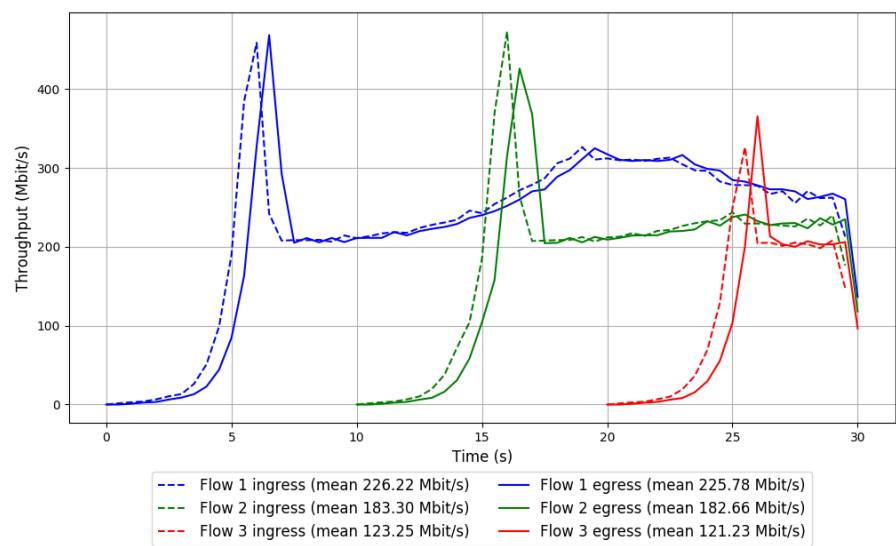


Run 5: Statistics of PCC-Vivace

Start at: 2019-09-18 18:56:46  
End at: 2019-09-18 18:57:16  
Local clock offset: -0.099 ms  
Remote clock offset: -0.152 ms

```
# Below is generated by plot.py at 2019-09-18 22:11:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 385.94 Mbit/s
95th percentile per-packet one-way delay: 143.140 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 225.78 Mbit/s
95th percentile per-packet one-way delay: 134.469 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 182.66 Mbit/s
95th percentile per-packet one-way delay: 175.807 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 121.23 Mbit/s
95th percentile per-packet one-way delay: 162.928 ms
Loss rate: 4.28%
```

Run 5: Report of PCC-Vivace — Data Link

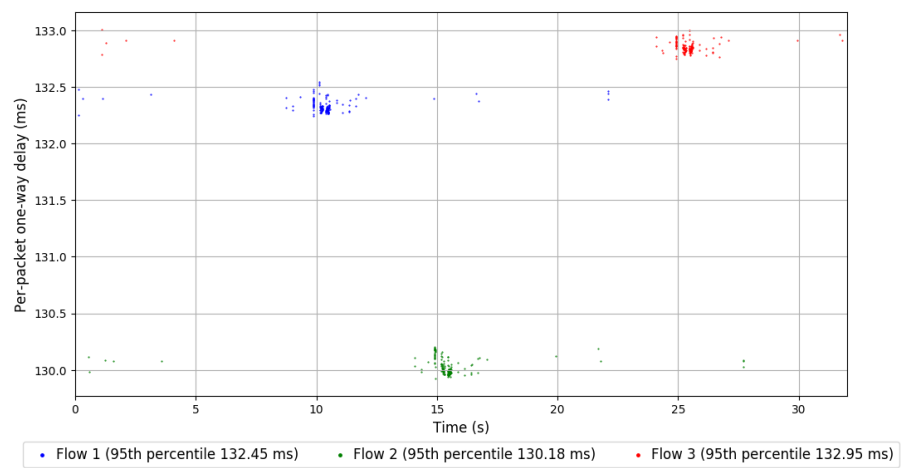
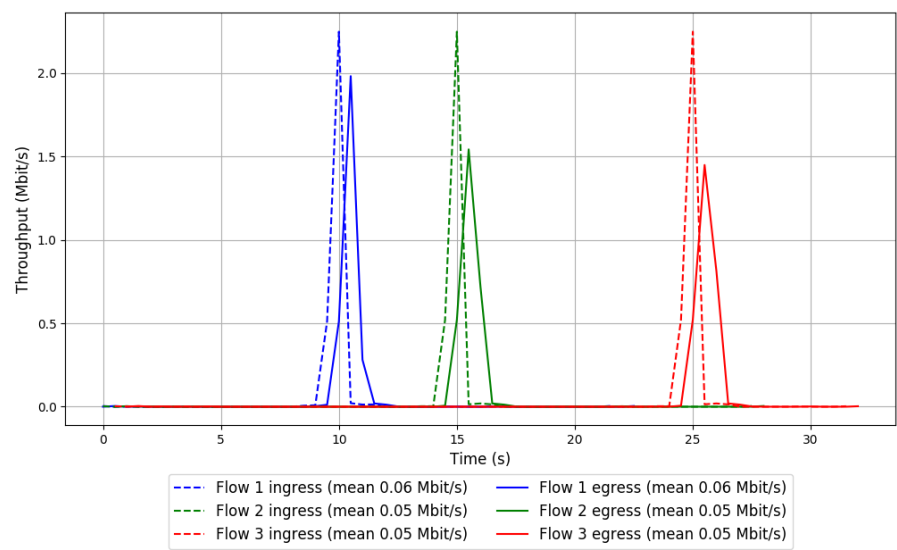


Run 1: Statistics of WebRTC media

Start at: 2019-09-18 16:15:24  
End at: 2019-09-18 16:15:54  
Local clock offset: -0.267 ms  
Remote clock offset: -0.313 ms

# Below is generated by plot.py at 2019-09-18 22:11:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 132.911 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 132.448 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 130.180 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.949 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



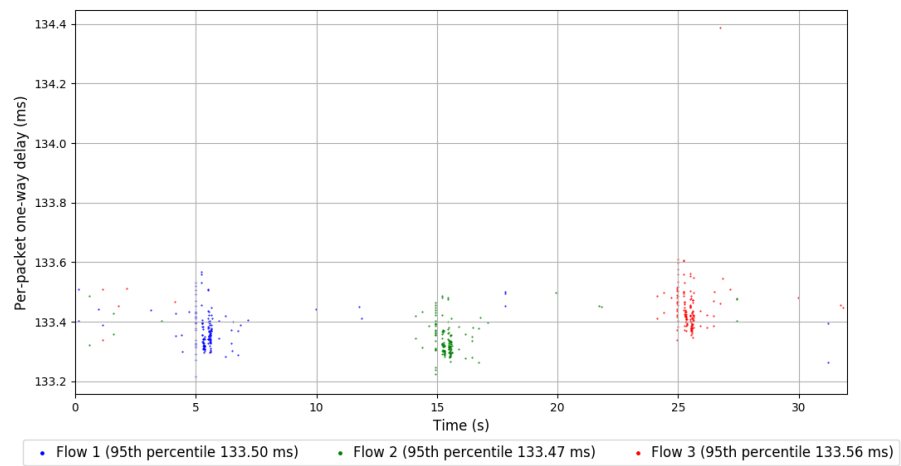
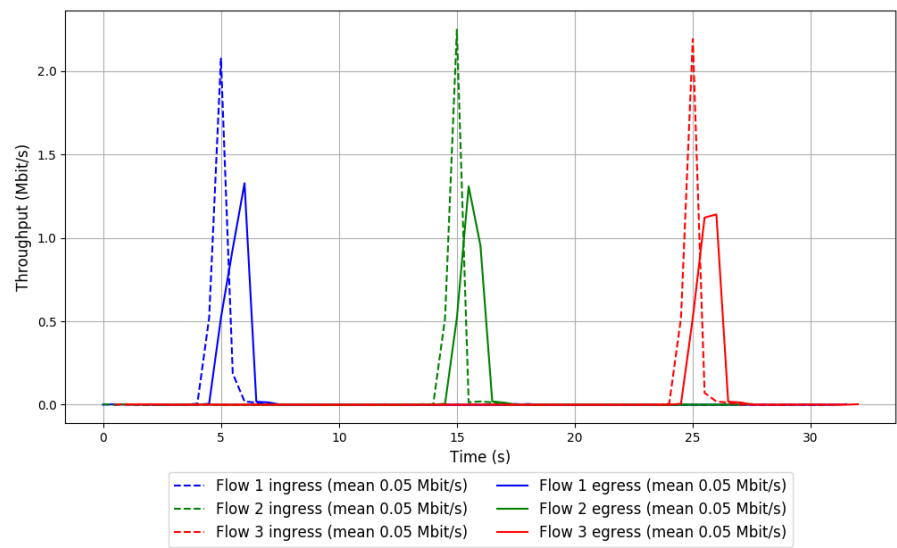


Run 2: Statistics of WebRTC media

Start at: 2019-09-18 16:59:39  
End at: 2019-09-18 17:00:09  
Local clock offset: 0.333 ms  
Remote clock offset: -0.163 ms

# Below is generated by plot.py at 2019-09-18 22:11:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 133.510 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.505 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.475 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.558 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

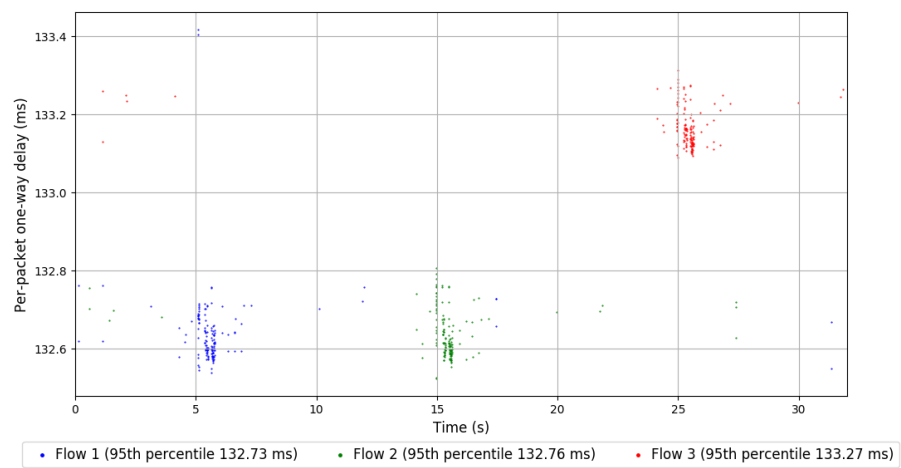
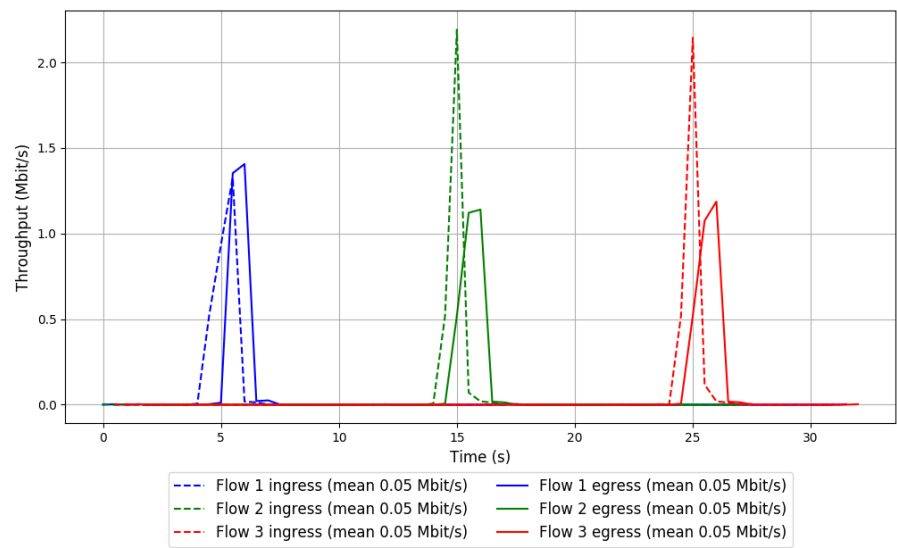


Run 3: Statistics of WebRTC media

Start at: 2019-09-18 17:43:58  
End at: 2019-09-18 17:44:28  
Local clock offset: 0.014 ms  
Remote clock offset: -0.263 ms

# Below is generated by plot.py at 2019-09-18 22:11:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 133.241 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.727 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.757 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.267 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

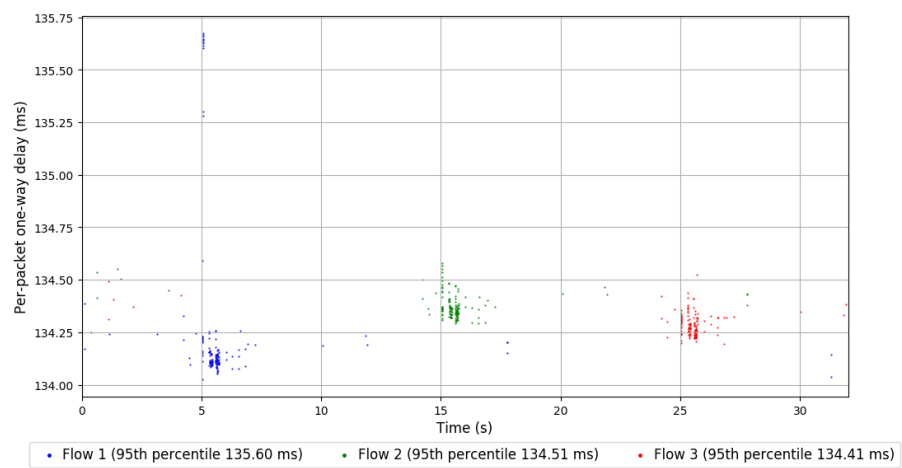
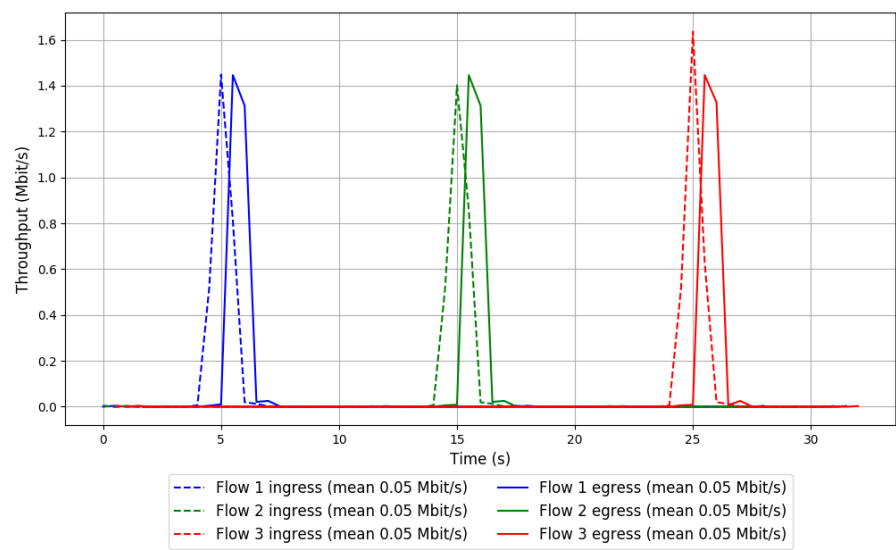


Run 4: Statistics of WebRTC media

Start at: 2019-09-18 18:28:13  
End at: 2019-09-18 18:28:43  
Local clock offset: -0.385 ms  
Remote clock offset: -1.899 ms

# Below is generated by plot.py at 2019-09-18 22:11:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 134.495 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 135.604 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 134.506 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 134.410 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-09-18 19:12:17

End at: 2019-09-18 19:12:47

Local clock offset: -0.023 ms

Remote clock offset: -0.53 ms

# Below is generated by plot.py at 2019-09-18 22:11:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.13 Mbit/s

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

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.359 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.405 ms

Loss rate: 0.00%

-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 133.586 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

