

## Pantheon Report

Generated at 2019-11-24 21:08:52 (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:

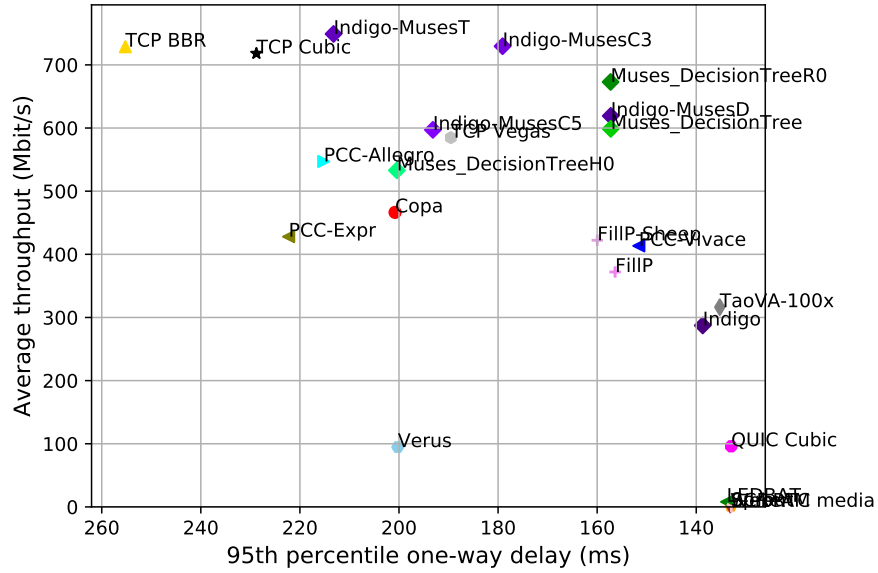
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

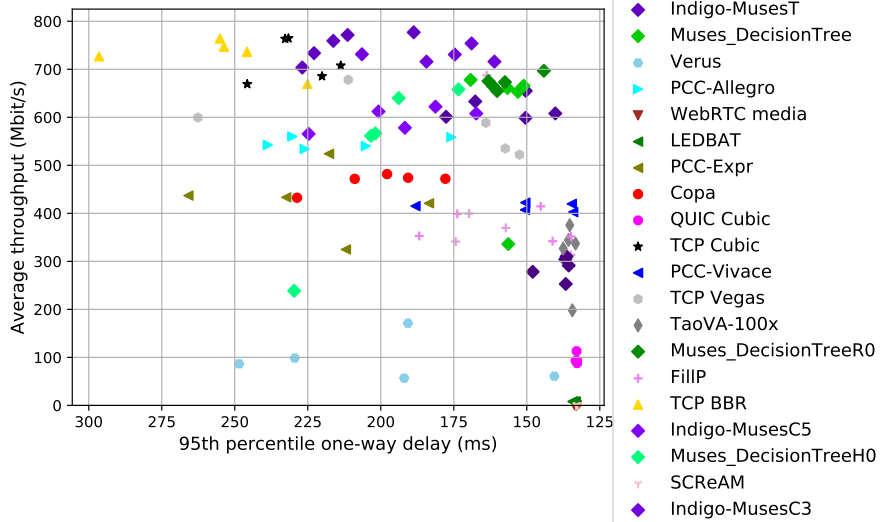
```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
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	417.68	347.58	246.99	235.08	255.34	202.14	1.27	4.61	5.16
Copa	5	263.21	217.92	180.11	204.55	181.56	192.00	0.98	1.49	3.80
TCP Cubic	5	408.50	359.75	217.41	238.39	211.78	147.22	1.08	1.86	4.03
FillP	5	86.71	313.00	240.75	165.02	137.10	136.41	0.60	1.11	3.09
FillP-Sheep	5	147.70	304.87	223.95	174.21	135.98	136.06	1.08	1.25	3.16
Indigo	5	149.67	149.35	119.75	137.72	138.39	143.00	0.90	1.38	3.36
Indigo-MusesC3	5	439.61	356.31	251.92	183.86	171.56	138.15	0.58	1.35	4.89
Indigo-MusesC5	5	365.94	329.10	90.74	204.28	156.32	133.79	0.74	1.78	6.52
Indigo-MusesD	5	391.55	327.78	81.20	161.61	147.35	134.17	0.91	1.00	5.31
Indigo-MusesT	5	474.66	375.92	145.76	218.20	182.71	140.45	1.01	1.32	5.14
LEDBAT	5	5.22	3.44	1.66	133.87	133.60	133.63	1.79	2.69	5.42
Muses_DecisionTree	5	321.71	333.17	184.66	155.68	150.84	138.99	0.92	1.10	4.81
Muses_DecisionTreeH0	5	280.78	293.47	189.58	190.56	193.25	136.45	1.39	2.15	5.69
Muses_DecisionTreeR0	5	408.49	321.26	170.46	160.54	144.10	136.11	0.78	1.29	5.13
PCC-Allegro	5	295.22	269.72	226.72	196.59	223.16	214.49	1.84	2.50	3.81
PCC-Expr	5	257.08	193.51	132.14	227.06	166.75	216.17	2.57	1.89	3.82
QUIC Cubic	5	47.60	49.14	46.85	132.94	132.63	132.95	1.41	1.90	3.11
SCReAM	5	0.15	0.15	0.17	132.91	132.85	132.50	0.88	1.39	2.48
Sprout	5	0.65	0.65	0.63	132.74	132.88	132.74	0.85	1.52	2.90
TaoVA-100x	5	155.98	186.59	112.54	134.89	134.70	136.55	0.96	1.55	3.95
TCP Vegas	5	310.65	297.74	234.70	163.38	186.44	171.02	0.88	1.52	3.61
Verus	5	36.19	73.65	32.61	186.50	203.32	147.01	0.70	2.18	5.91
PCC-Vivace	5	264.52	177.11	97.62	174.93	137.40	141.12	1.07	1.88	4.35
WebRTC media	5	0.05	0.07	0.06	133.04	133.07	133.10	0.01	0.00	0.00



Run 1: Statistics of TCP BBR

Start at: 2019-11-24 15:27:56

End at: 2019-11-24 15:28:26

Local clock offset: -0.072 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-11-24 18:58:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 747.12 Mbit/s

95th percentile per-packet one-way delay: 253.693 ms

Loss rate: 2.70%

-- Flow 1:

Average throughput: 422.19 Mbit/s

95th percentile per-packet one-way delay: 196.744 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 371.82 Mbit/s

95th percentile per-packet one-way delay: 293.404 ms

Loss rate: 6.08%

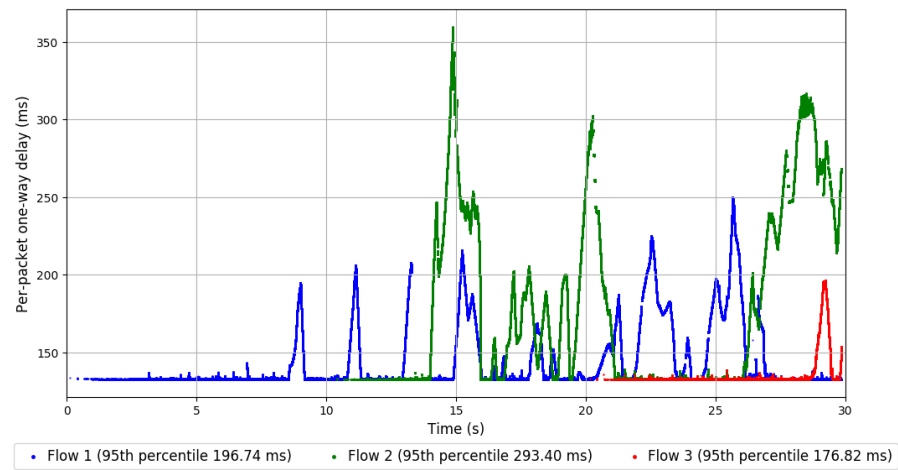
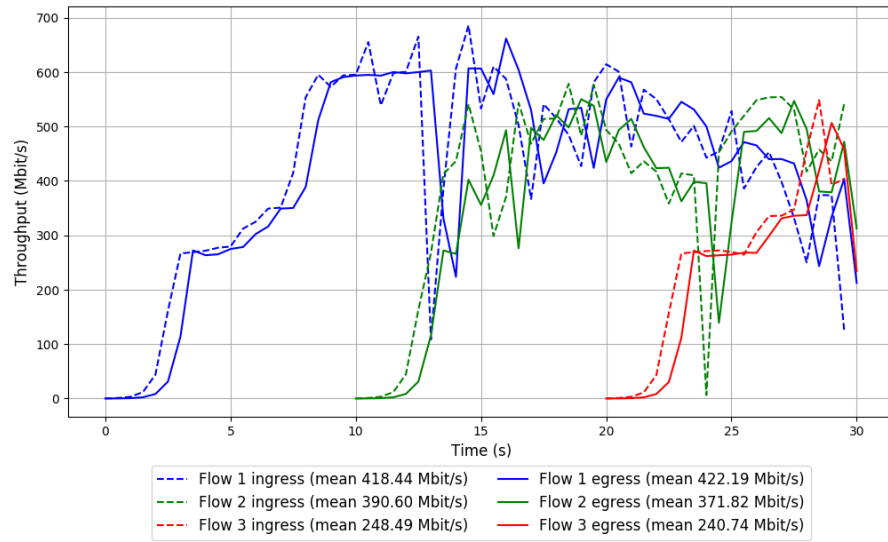
-- Flow 3:

Average throughput: 240.74 Mbit/s

95th percentile per-packet one-way delay: 176.823 ms

Loss rate: 5.71%

# Run 1: Report of TCP BBR — Data Link

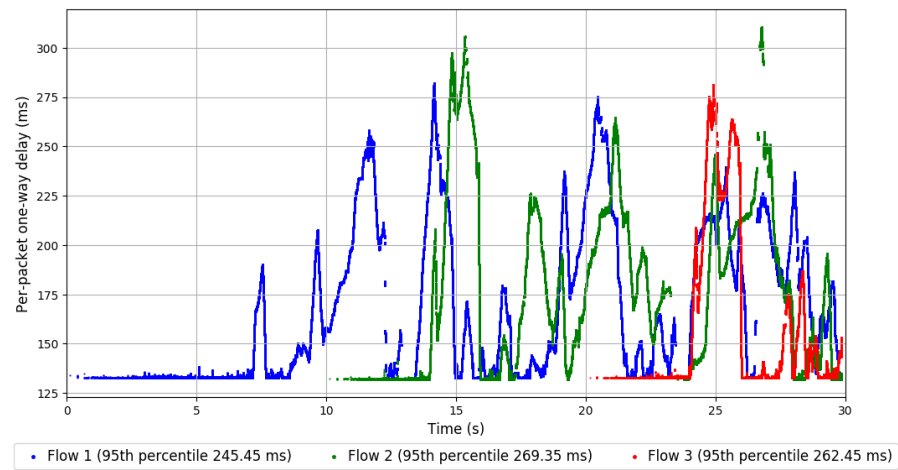
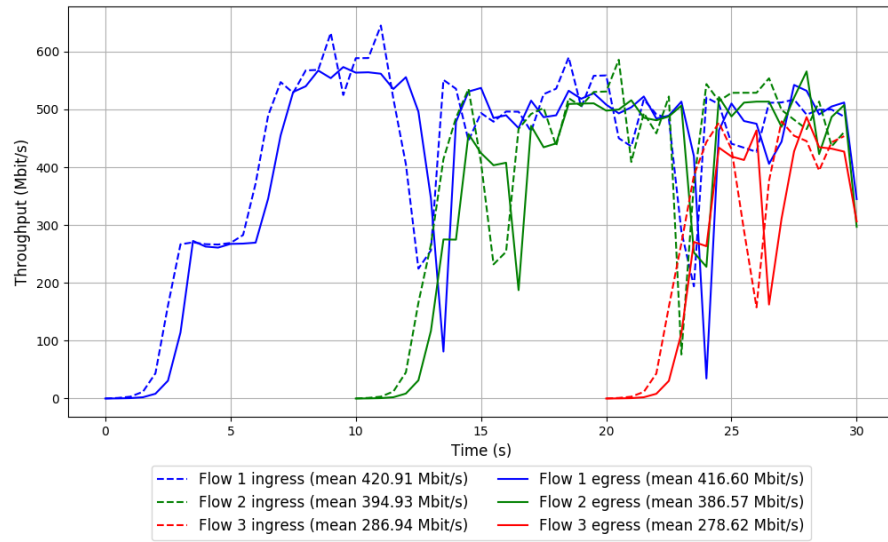


Run 2: Statistics of TCP BBR

Start at: 2019-11-24 16:11:16  
End at: 2019-11-24 16:11:46  
Local clock offset: -0.083 ms  
Remote clock offset: -0.019 ms

# Below is generated by plot.py at 2019-11-24 18:58:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 763.95 Mbit/s  
95th percentile per-packet one-way delay: 255.076 ms  
Loss rate: 2.86%  
-- Flow 1:  
Average throughput: 416.60 Mbit/s  
95th percentile per-packet one-way delay: 245.452 ms  
Loss rate: 1.91%  
-- Flow 2:  
Average throughput: 386.57 Mbit/s  
95th percentile per-packet one-way delay: 269.354 ms  
Loss rate: 3.42%  
-- Flow 3:  
Average throughput: 278.62 Mbit/s  
95th percentile per-packet one-way delay: 262.450 ms  
Loss rate: 5.50%

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

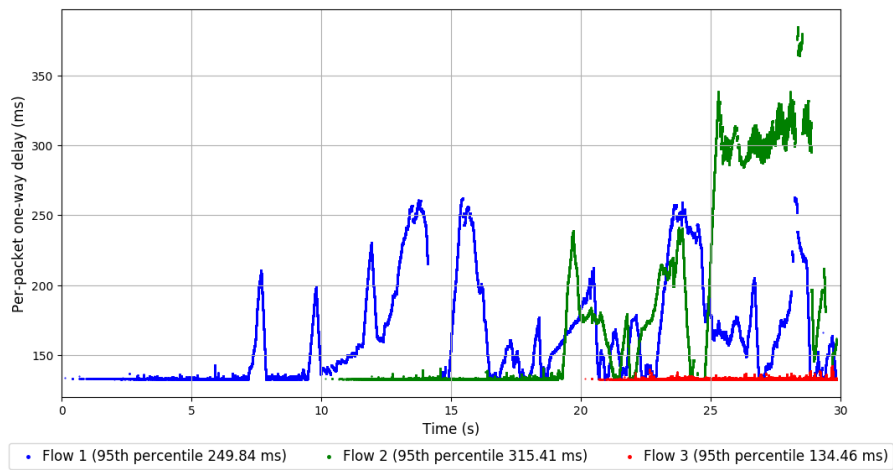
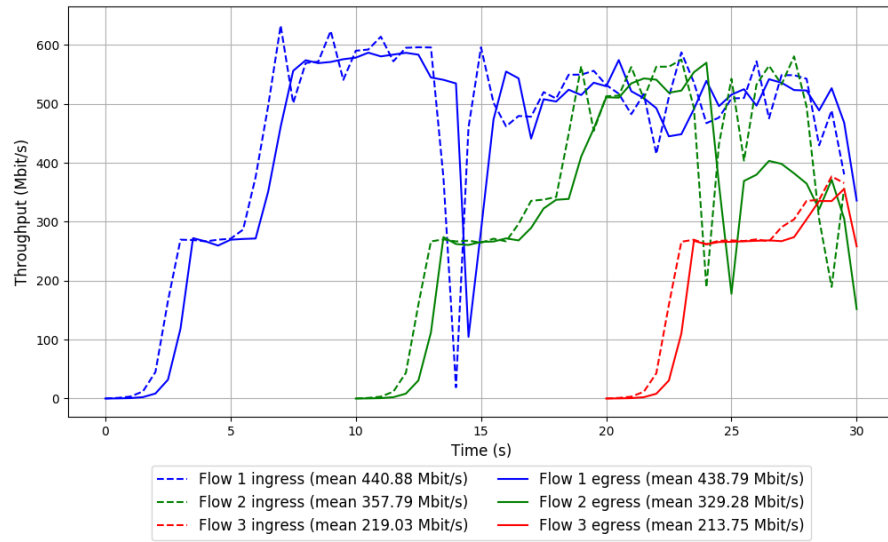


Run 3: Statistics of TCP BBR

Start at: 2019-11-24 16:54:44  
End at: 2019-11-24 16:55:14  
Local clock offset: -0.019 ms  
Remote clock offset: -0.067 ms

# Below is generated by plot.py at 2019-11-24 18:58:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 726.90 Mbit/s  
95th percentile per-packet one-way delay: 296.471 ms  
Loss rate: 4.21%  
-- Flow 1:  
Average throughput: 438.79 Mbit/s  
95th percentile per-packet one-way delay: 249.839 ms  
Loss rate: 1.37%  
-- Flow 2:  
Average throughput: 329.28 Mbit/s  
95th percentile per-packet one-way delay: 315.411 ms  
Loss rate: 9.20%  
-- Flow 3:  
Average throughput: 213.75 Mbit/s  
95th percentile per-packet one-way delay: 134.460 ms  
Loss rate: 5.03%

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



Run 4: Statistics of TCP BBR

Start at: 2019-11-24 17:37:35

End at: 2019-11-24 17:38:05

Local clock offset: -0.13 ms

Remote clock offset: 0.366 ms

# Below is generated by plot.py at 2019-11-24 18:58:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 736.31 Mbit/s

95th percentile per-packet one-way delay: 245.803 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 420.48 Mbit/s

95th percentile per-packet one-way delay: 247.217 ms

Loss rate: 1.83%

-- Flow 2:

Average throughput: 339.22 Mbit/s

95th percentile per-packet one-way delay: 234.317 ms

Loss rate: 2.72%

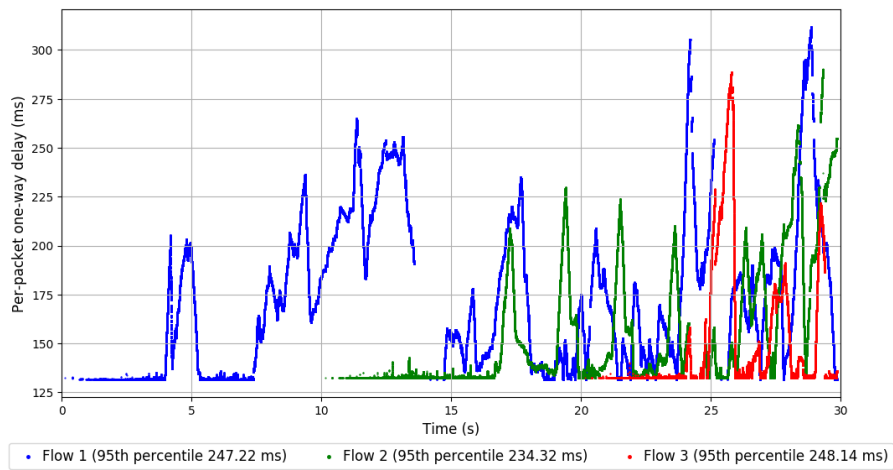
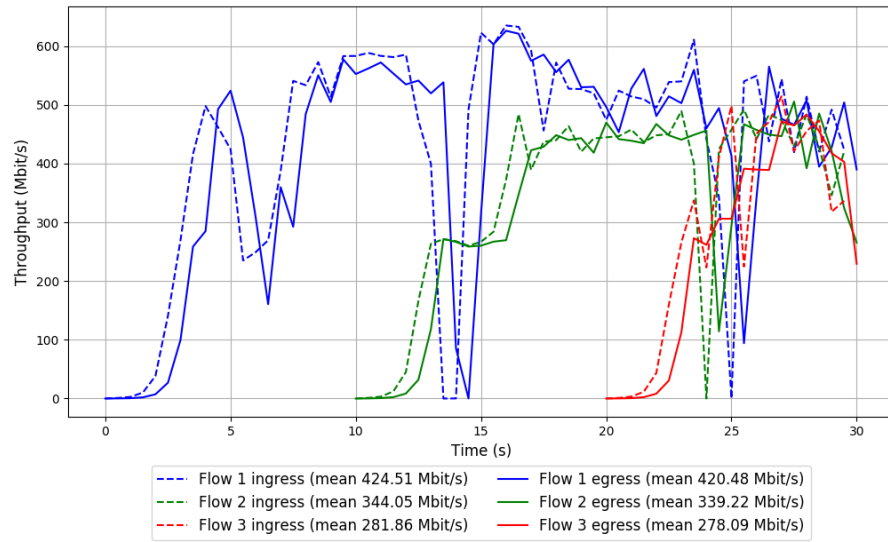
-- Flow 3:

Average throughput: 278.09 Mbit/s

95th percentile per-packet one-way delay: 248.141 ms

Loss rate: 3.97%

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





Run 5: Statistics of TCP BBR

Start at: 2019-11-24 18:20:48

End at: 2019-11-24 18:21:18

Local clock offset: -0.063 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 18:58:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 669.59 Mbit/s

95th percentile per-packet one-way delay: 225.111 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 390.33 Mbit/s

95th percentile per-packet one-way delay: 236.141 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 311.00 Mbit/s

95th percentile per-packet one-way delay: 164.234 ms

Loss rate: 1.61%

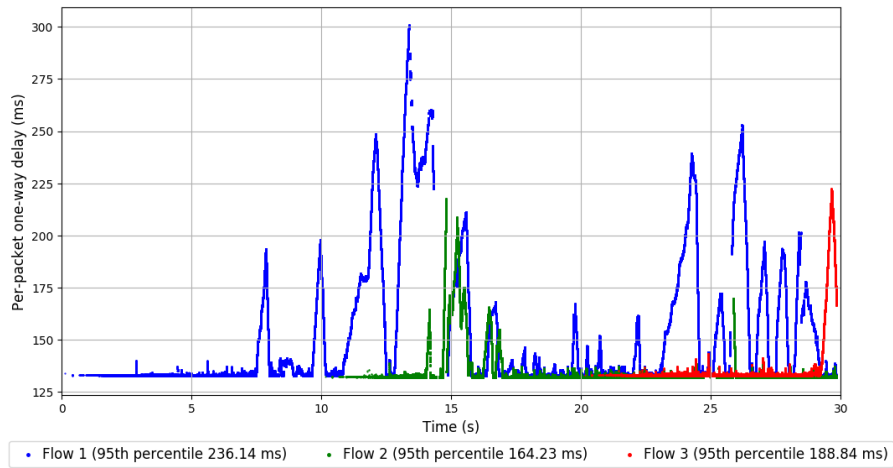
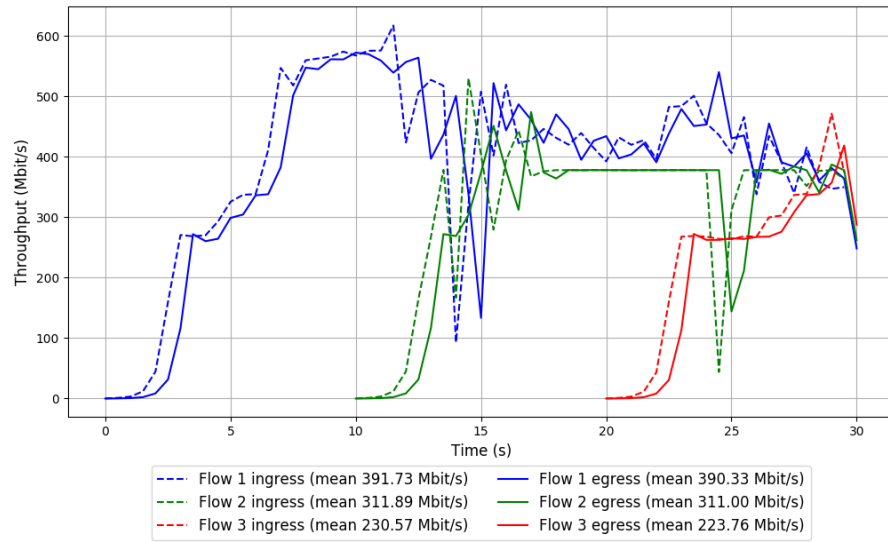
-- Flow 3:

Average throughput: 223.76 Mbit/s

95th percentile per-packet one-way delay: 188.843 ms

Loss rate: 5.59%

# Run 5: Report of TCP BBR — Data Link

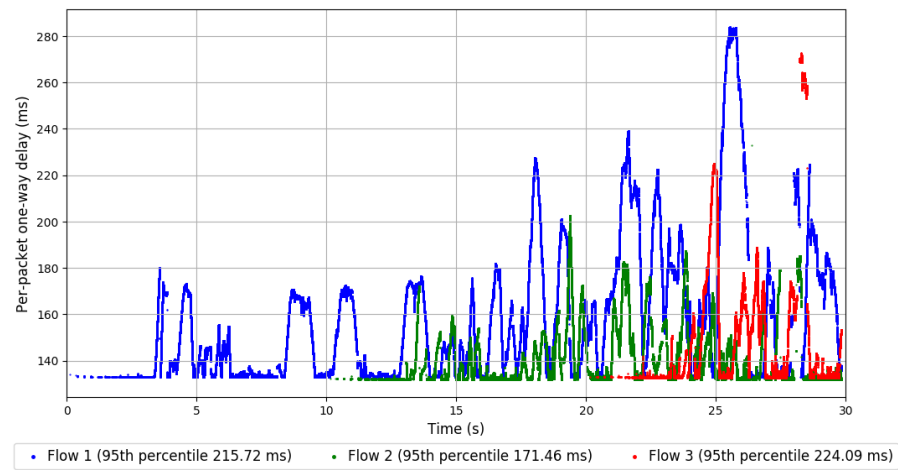
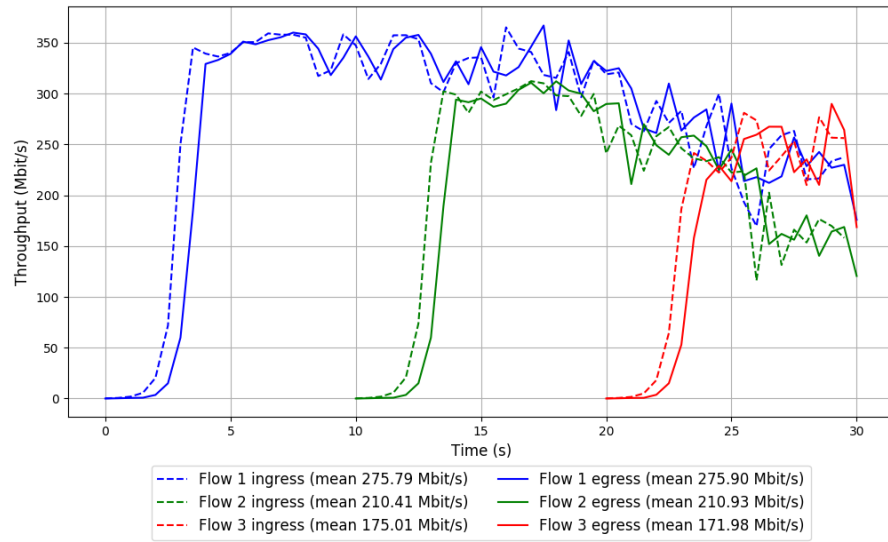


Run 1: Statistics of Copa

Start at: 2019-11-24 14:54:43  
End at: 2019-11-24 14:55:13  
Local clock offset: -0.088 ms  
Remote clock offset: -0.102 ms

# Below is generated by plot.py at 2019-11-24 19:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 471.81 Mbit/s  
95th percentile per-packet one-way delay: 208.922 ms  
Loss rate: 1.35%  
-- Flow 1:  
Average throughput: 275.90 Mbit/s  
95th percentile per-packet one-way delay: 215.716 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 210.93 Mbit/s  
95th percentile per-packet one-way delay: 171.463 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 171.98 Mbit/s  
95th percentile per-packet one-way delay: 224.086 ms  
Loss rate: 4.37%

## Run 1: Report of Copa — Data Link

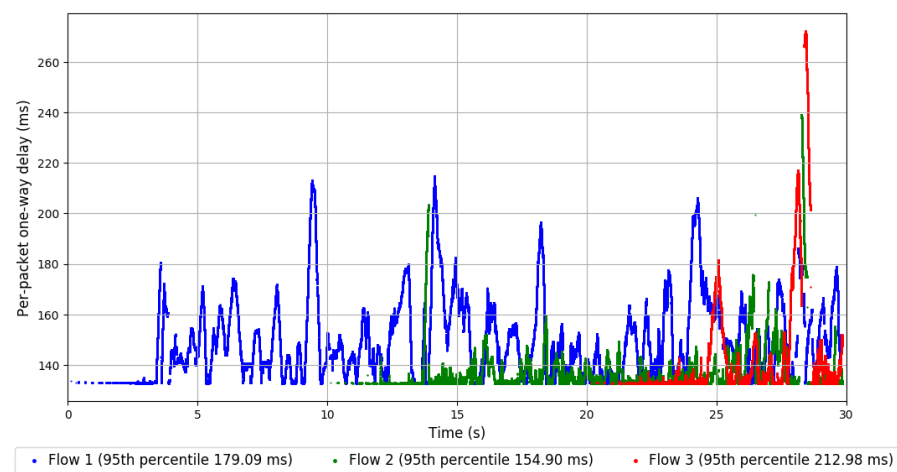
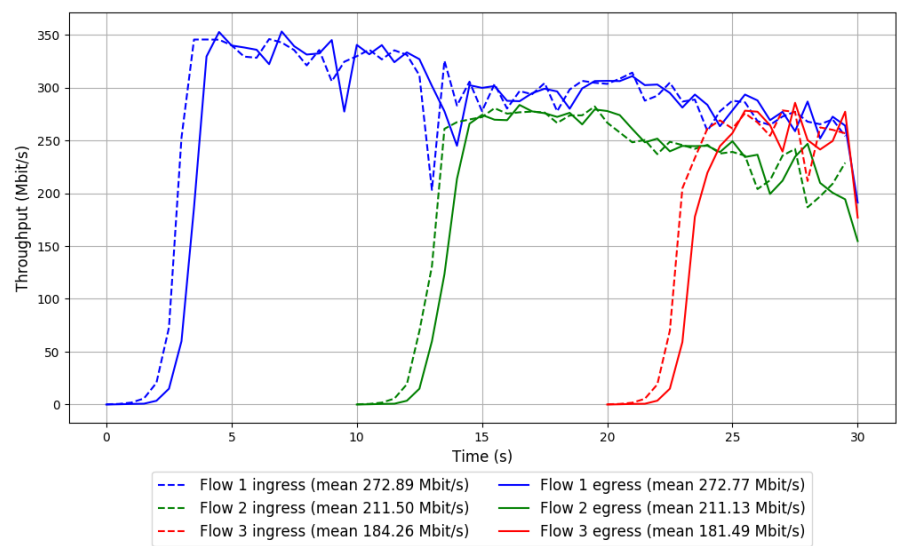


Run 2: Statistics of Copa

Start at: 2019-11-24 15:37:43  
End at: 2019-11-24 15:38:13  
Local clock offset: -0.034 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-11-24 19:00:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 471.98 Mbit/s  
95th percentile per-packet one-way delay: 177.879 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 272.77 Mbit/s  
95th percentile per-packet one-way delay: 179.088 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 211.13 Mbit/s  
95th percentile per-packet one-way delay: 154.900 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 181.49 Mbit/s  
95th percentile per-packet one-way delay: 212.983 ms  
Loss rate: 4.13%

Run 2: Report of Copa — Data Link

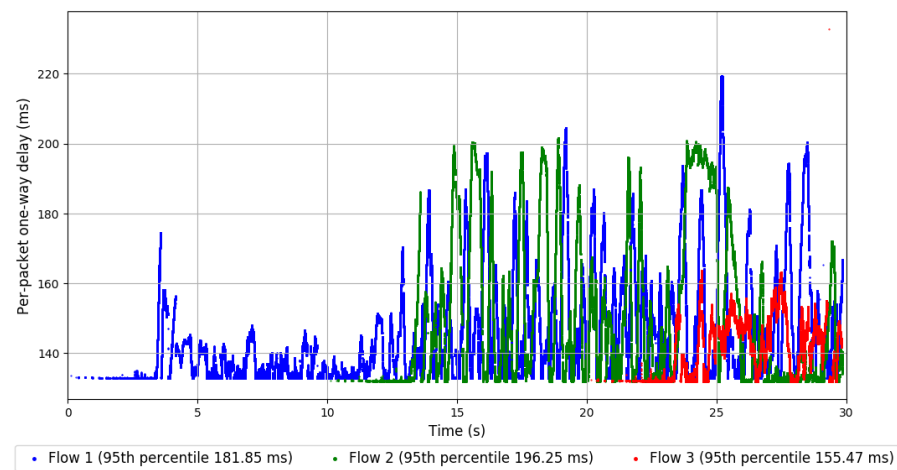
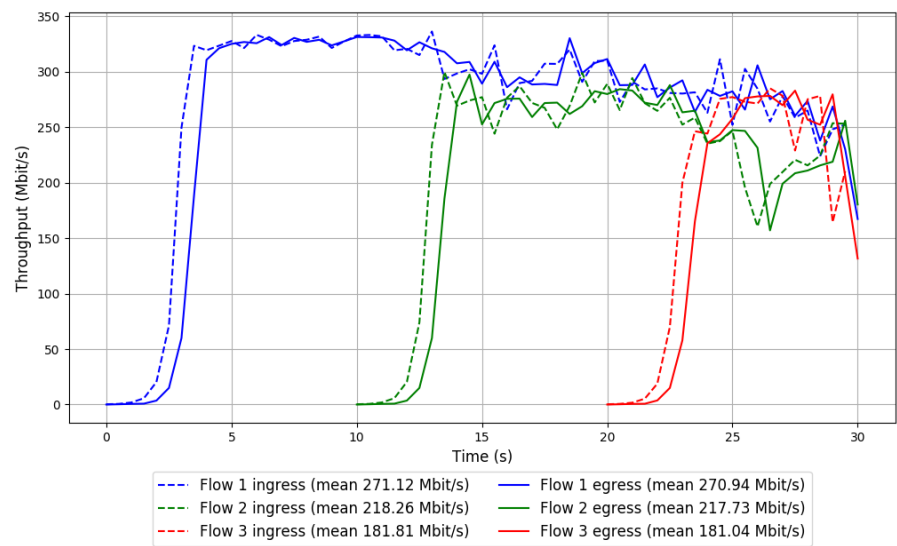


Run 3: Statistics of Copa

Start at: 2019-11-24 16:21:16  
End at: 2019-11-24 16:21:46  
Local clock offset: -0.15 ms  
Remote clock offset: -0.064 ms

```
# Below is generated by plot.py at 2019-11-24 19:01:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.08 Mbit/s
95th percentile per-packet one-way delay: 190.642 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 270.94 Mbit/s
95th percentile per-packet one-way delay: 181.854 ms
Loss rate: 0.96%
-- Flow 2:
Average throughput: 217.73 Mbit/s
95th percentile per-packet one-way delay: 196.254 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 181.04 Mbit/s
95th percentile per-packet one-way delay: 155.474 ms
Loss rate: 3.15%
```

Run 3: Report of Copa — Data Link



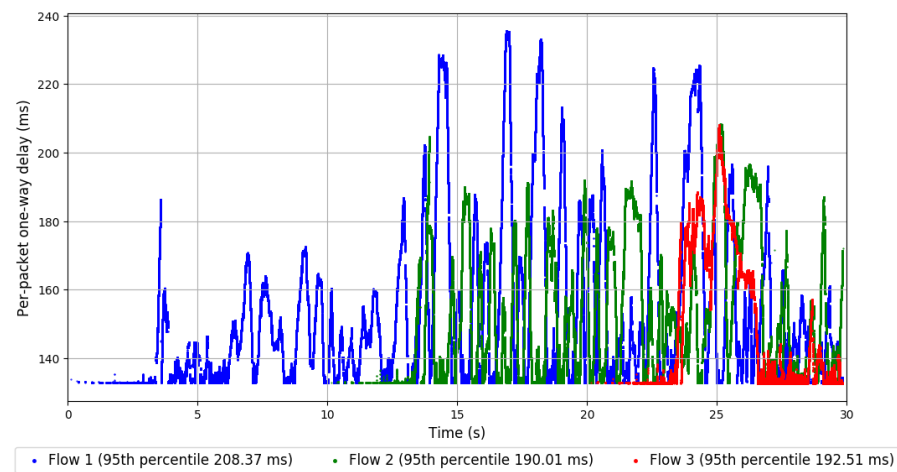
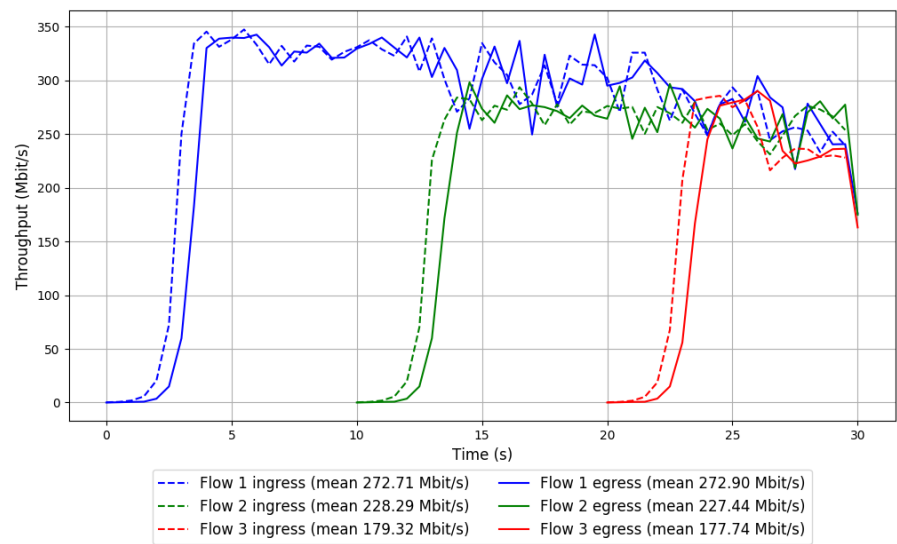


Run 4: Statistics of Copa

Start at: 2019-11-24 17:04:25  
End at: 2019-11-24 17:04:55  
Local clock offset: -0.124 ms  
Remote clock offset: -0.087 ms

# Below is generated by plot.py at 2019-11-24 19:14:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 481.71 Mbit/s  
95th percentile per-packet one-way delay: 197.847 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 272.90 Mbit/s  
95th percentile per-packet one-way delay: 208.372 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 227.44 Mbit/s  
95th percentile per-packet one-way delay: 190.008 ms  
Loss rate: 1.70%  
-- Flow 3:  
Average throughput: 177.74 Mbit/s  
95th percentile per-packet one-way delay: 192.507 ms  
Loss rate: 3.53%

Run 4: Report of Copa — Data Link

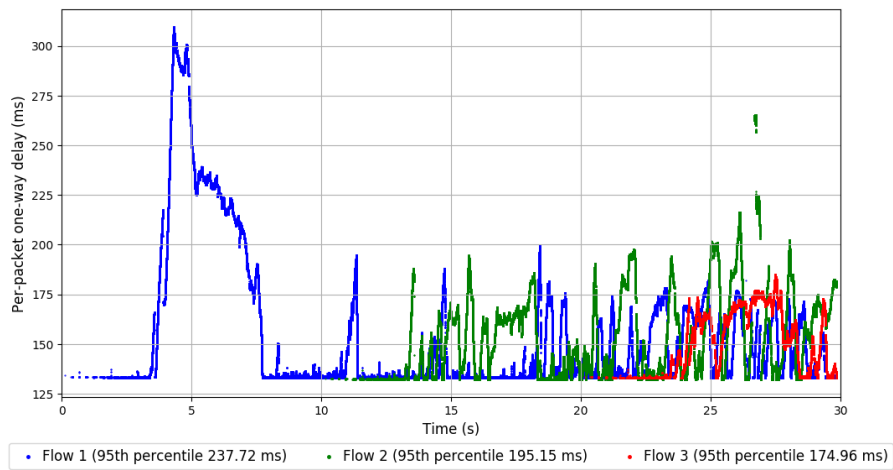
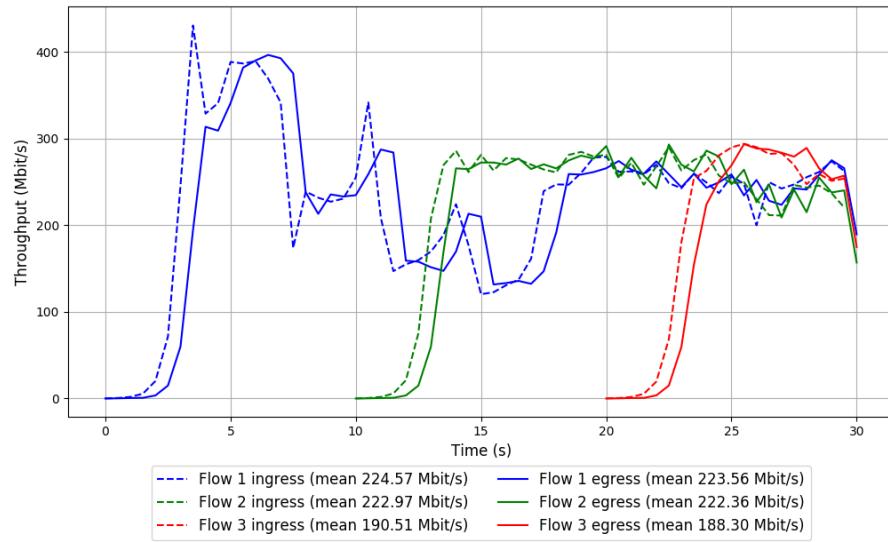


Run 5: Statistics of Copa

Start at: 2019-11-24 17:47:05  
End at: 2019-11-24 17:47:35  
Local clock offset: 0.228 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-11-24 19:14:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 432.48 Mbit/s  
95th percentile per-packet one-way delay: 228.669 ms  
Loss rate: 1.78%  
-- Flow 1:  
Average throughput: 223.56 Mbit/s  
95th percentile per-packet one-way delay: 237.716 ms  
Loss rate: 1.34%  
-- Flow 2:  
Average throughput: 222.36 Mbit/s  
95th percentile per-packet one-way delay: 195.153 ms  
Loss rate: 1.59%  
-- Flow 3:  
Average throughput: 188.30 Mbit/s  
95th percentile per-packet one-way delay: 174.959 ms  
Loss rate: 3.80%

## Run 5: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2019-11-24 15:10:00

End at: 2019-11-24 15:10:30

Local clock offset: 0.249 ms

Remote clock offset: 0.101 ms

# Below is generated by plot.py at 2019-11-24 19:14:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 685.53 Mbit/s

95th percentile per-packet one-way delay: 220.115 ms

Loss rate: 1.53%

-- Flow 1:

Average throughput: 439.78 Mbit/s

95th percentile per-packet one-way delay: 232.359 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 272.20 Mbit/s

95th percentile per-packet one-way delay: 171.795 ms

Loss rate: 1.81%

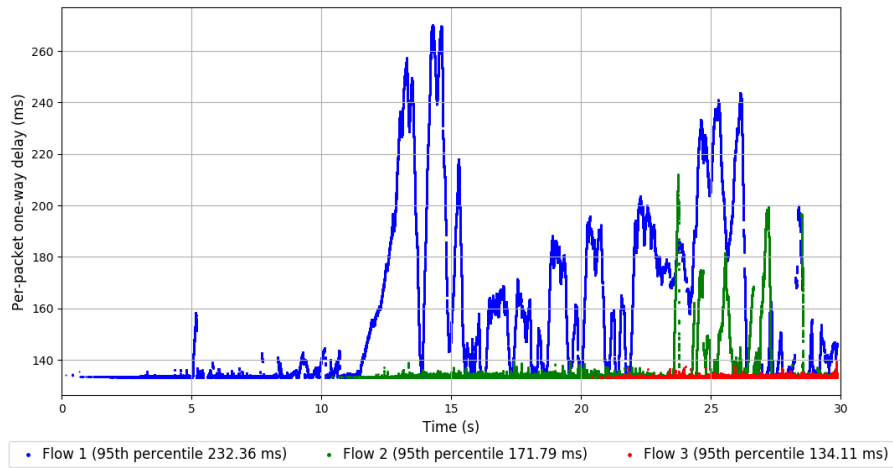
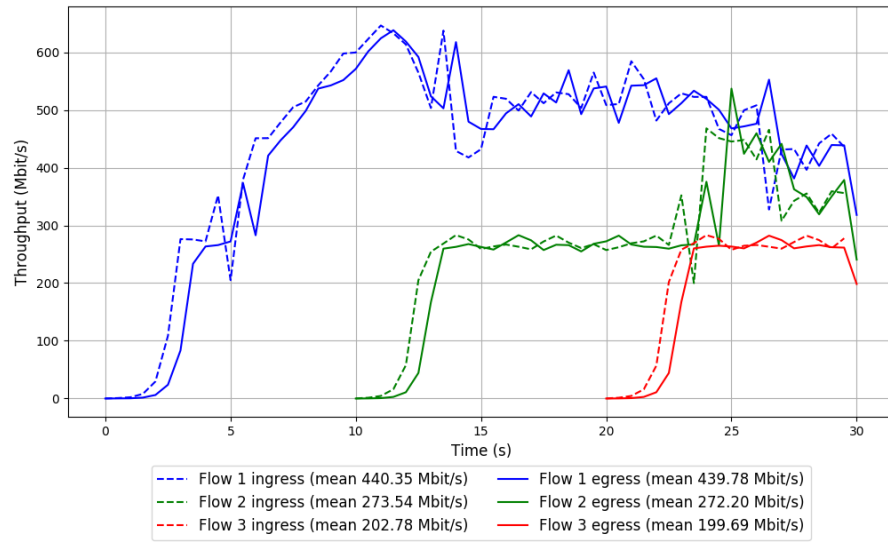
-- Flow 3:

Average throughput: 199.69 Mbit/s

95th percentile per-packet one-way delay: 134.107 ms

Loss rate: 4.15%

# Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-11-24 15:53:12

End at: 2019-11-24 15:53:42

Local clock offset: -0.089 ms

Remote clock offset: 0.001 ms

# Below is generated by plot.py at 2019-11-24 19:14:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 669.18 Mbit/s

95th percentile per-packet one-way delay: 245.734 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 346.27 Mbit/s

95th percentile per-packet one-way delay: 253.269 ms

Loss rate: 1.31%

-- Flow 2:

Average throughput: 361.96 Mbit/s

95th percentile per-packet one-way delay: 246.268 ms

Loss rate: 1.52%

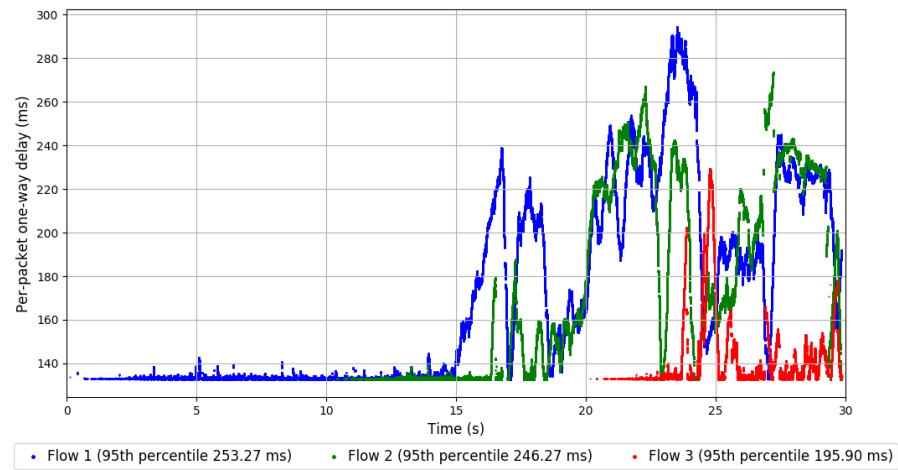
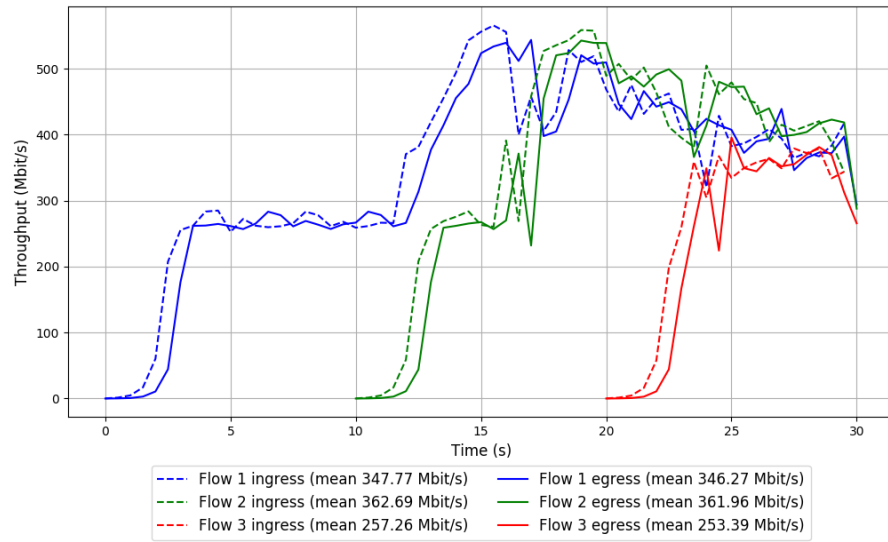
-- Flow 3:

Average throughput: 253.39 Mbit/s

95th percentile per-packet one-way delay: 195.898 ms

Loss rate: 4.12%

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



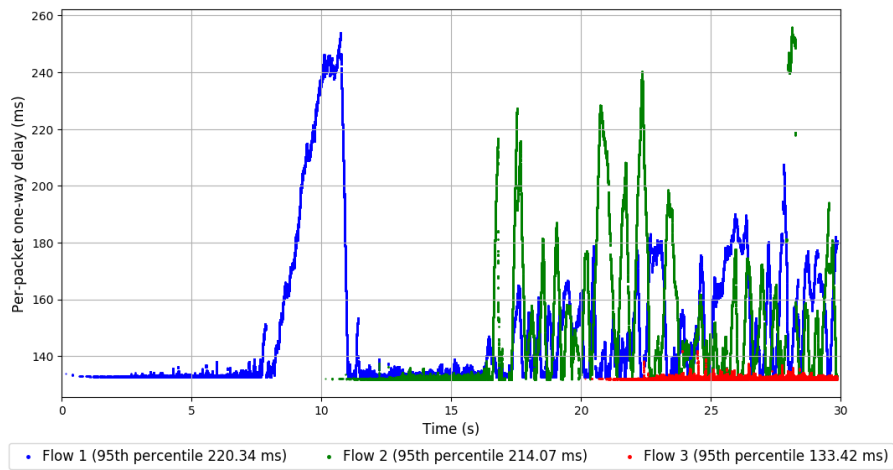
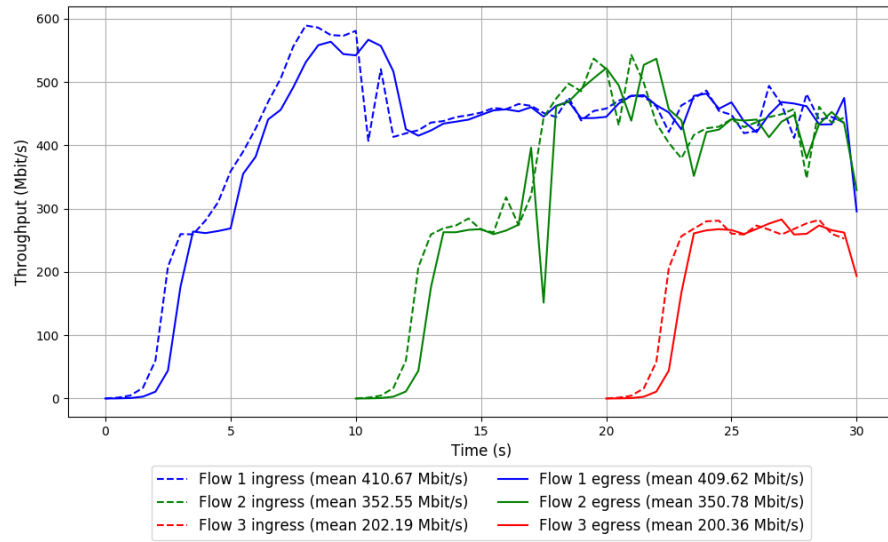


Run 3: Statistics of TCP Cubic

Start at: 2019-11-24 16:36:30  
End at: 2019-11-24 16:37:00  
Local clock offset: -0.102 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 19:14:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 707.70 Mbit/s  
95th percentile per-packet one-way delay: 213.711 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 409.62 Mbit/s  
95th percentile per-packet one-way delay: 220.341 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 350.78 Mbit/s  
95th percentile per-packet one-way delay: 214.069 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 200.36 Mbit/s  
95th percentile per-packet one-way delay: 133.422 ms  
Loss rate: 3.54%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-11-24 17:19:51

End at: 2019-11-24 17:20:21

Local clock offset: -0.113 ms

Remote clock offset: 0.322 ms

# Below is generated by plot.py at 2019-11-24 19:15:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 764.46 Mbit/s

95th percentile per-packet one-way delay: 231.617 ms

Loss rate: 1.52%

-- Flow 1:

Average throughput: 413.65 Mbit/s

95th percentile per-packet one-way delay: 237.033 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 413.92 Mbit/s

95th percentile per-packet one-way delay: 224.378 ms

Loss rate: 1.90%

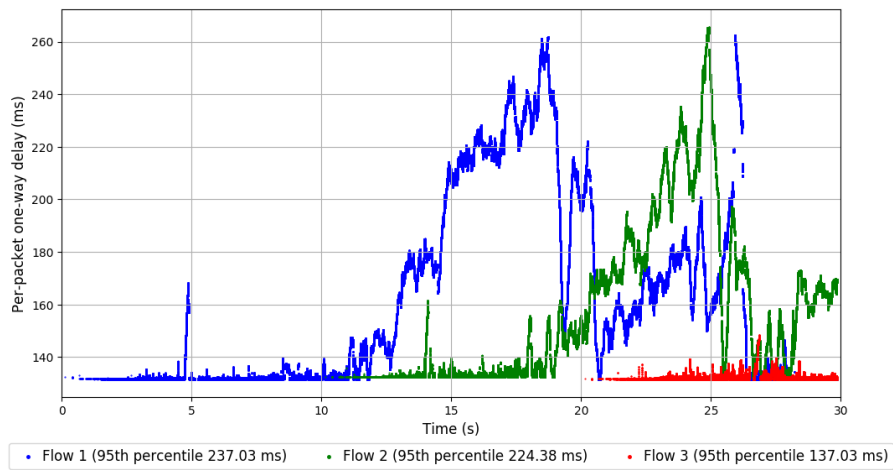
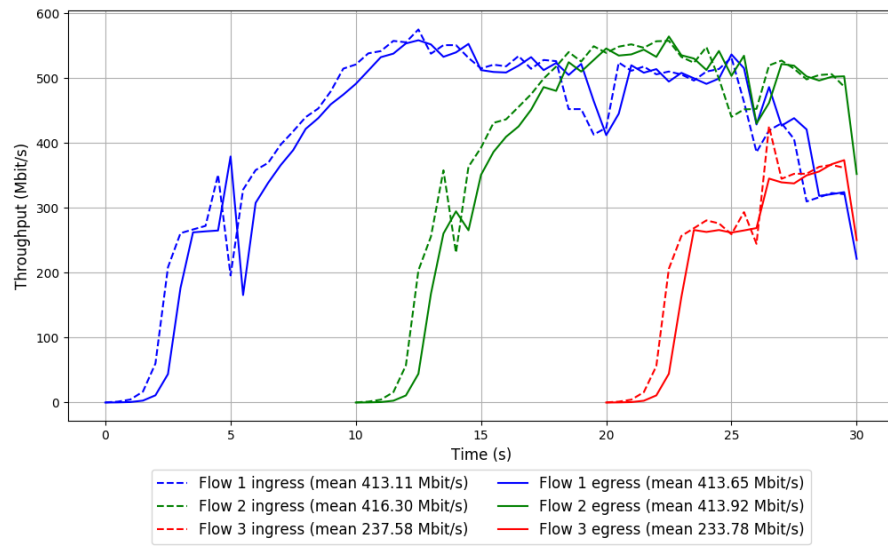
-- Flow 3:

Average throughput: 233.78 Mbit/s

95th percentile per-packet one-way delay: 137.025 ms

Loss rate: 4.21%

# Run 4: Report of TCP Cubic — Data Link

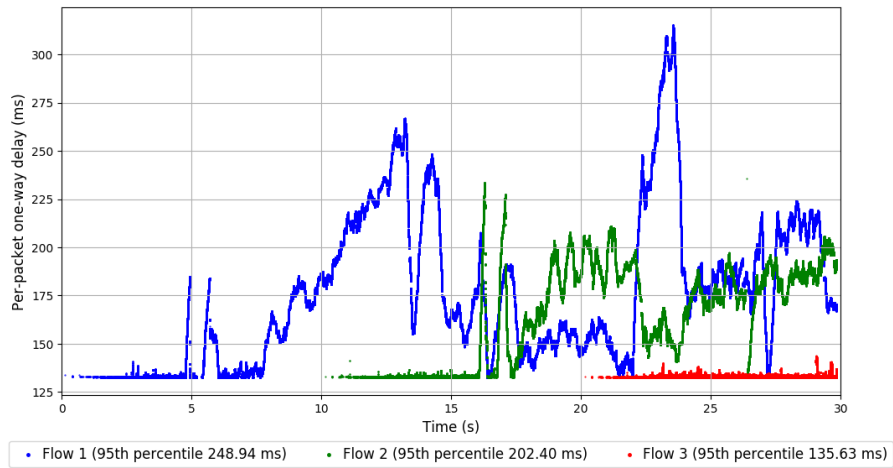
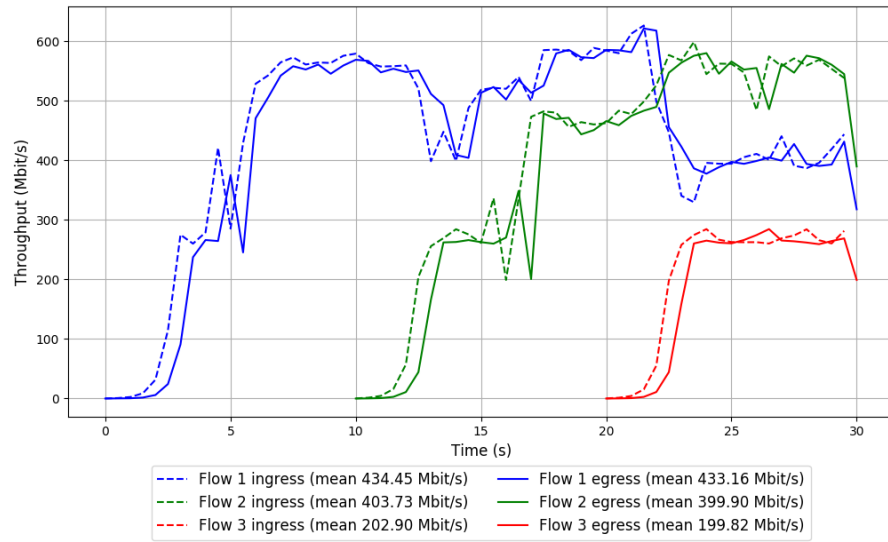


Run 5: Statistics of TCP Cubic

Start at: 2019-11-24 18:02:57  
End at: 2019-11-24 18:03:27  
Local clock offset: -0.118 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-24 19:15:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 763.52 Mbit/s  
95th percentile per-packet one-way delay: 232.742 ms  
Loss rate: 1.82%  
-- Flow 1:  
Average throughput: 433.16 Mbit/s  
95th percentile per-packet one-way delay: 248.939 ms  
Loss rate: 1.18%  
-- Flow 2:  
Average throughput: 399.90 Mbit/s  
95th percentile per-packet one-way delay: 202.400 ms  
Loss rate: 2.27%  
-- Flow 3:  
Average throughput: 199.82 Mbit/s  
95th percentile per-packet one-way delay: 135.628 ms  
Loss rate: 4.13%

# Run 5: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2019-11-24 15:01:33

End at: 2019-11-24 15:02:03

Local clock offset: -0.099 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-11-24 19:15:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 351.65 Mbit/s

95th percentile per-packet one-way delay: 134.877 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 63.62 Mbit/s

95th percentile per-packet one-way delay: 134.090 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 318.79 Mbit/s

95th percentile per-packet one-way delay: 133.829 ms

Loss rate: 0.93%

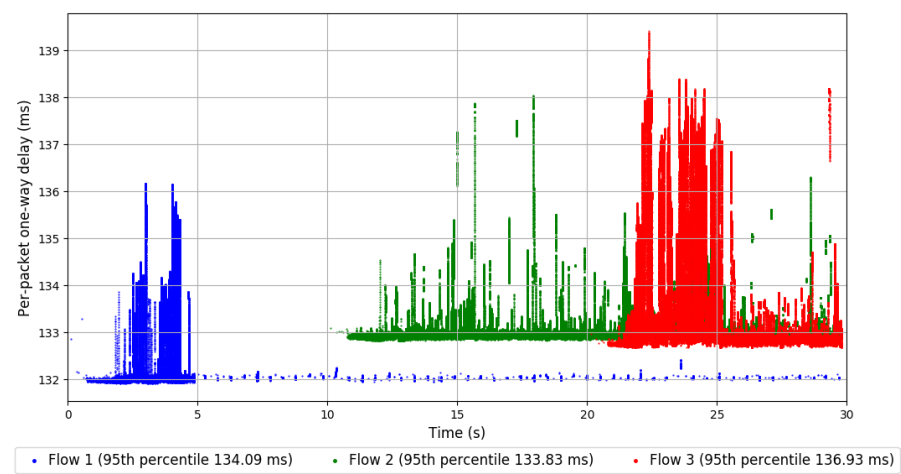
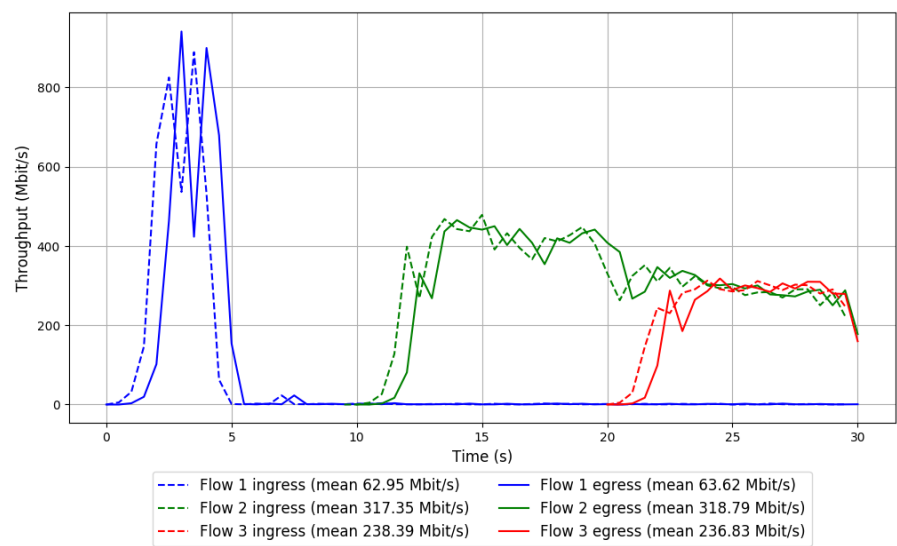
-- Flow 3:

Average throughput: 236.83 Mbit/s

95th percentile per-packet one-way delay: 136.929 ms

Loss rate: 3.46%

Run 1: Report of FillP — Data Link





Run 2: Statistics of FillP

Start at: 2019-11-24 15:44:36

End at: 2019-11-24 15:45:06

Local clock offset: -0.043 ms

Remote clock offset: 0.018 ms

# Below is generated by plot.py at 2019-11-24 19:17:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 341.96 Mbit/s

95th percentile per-packet one-way delay: 141.152 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 58.04 Mbit/s

95th percentile per-packet one-way delay: 138.475 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 308.22 Mbit/s

95th percentile per-packet one-way delay: 143.033 ms

Loss rate: 1.05%

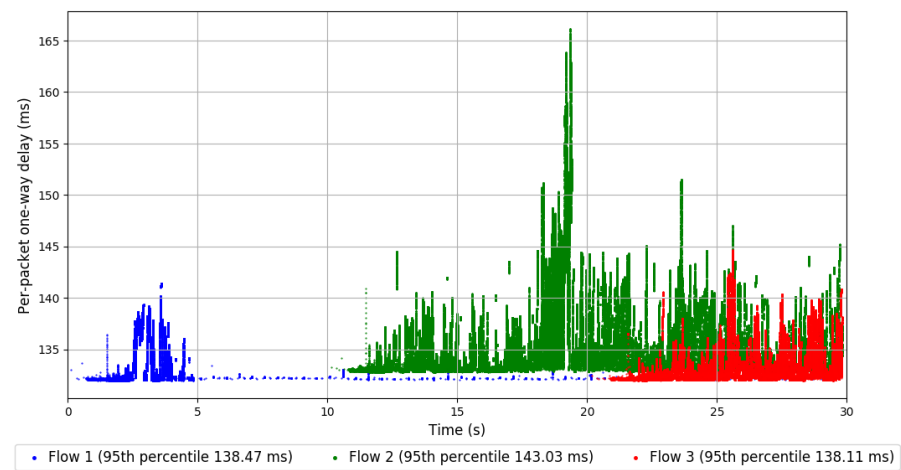
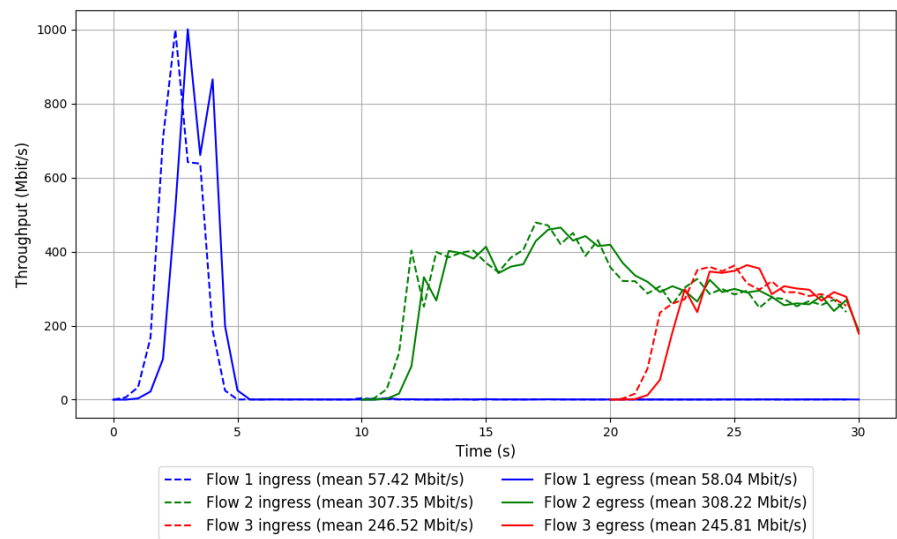
-- Flow 3:

Average throughput: 245.81 Mbit/s

95th percentile per-packet one-way delay: 138.110 ms

Loss rate: 3.06%

Run 2: Report of FillP — Data Link

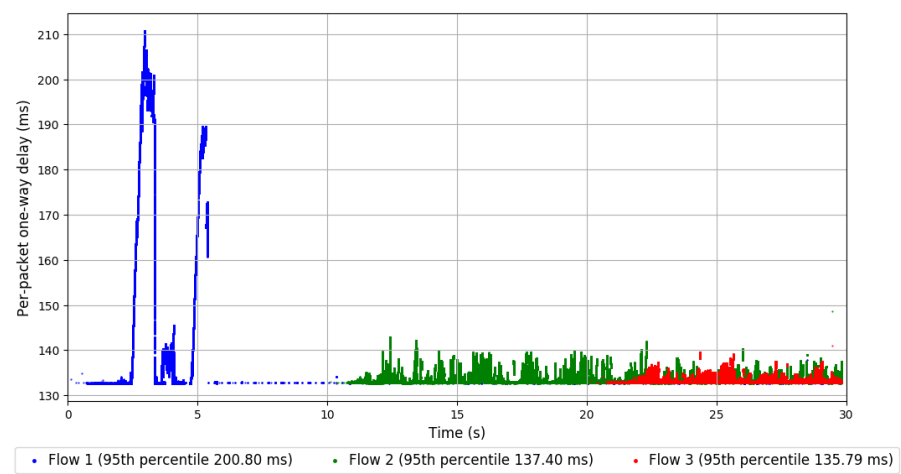
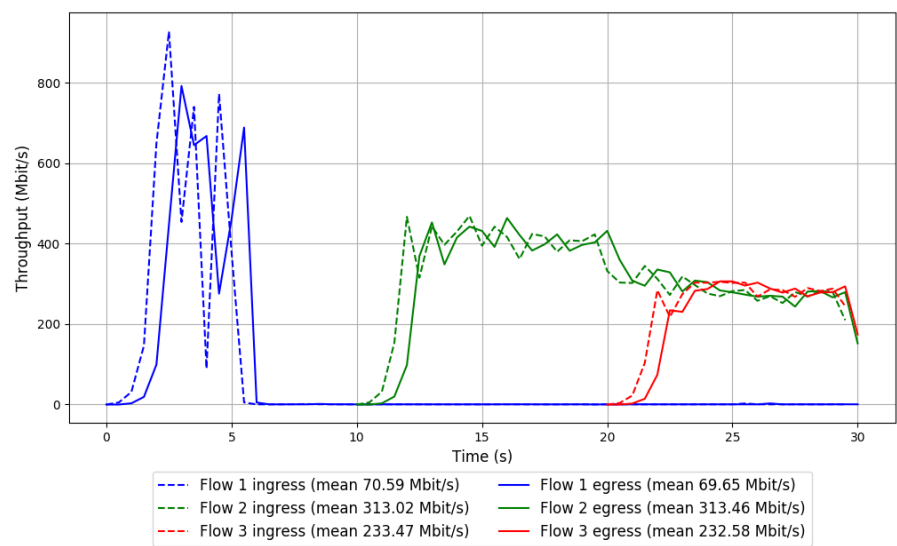


Run 3: Statistics of FillP

Start at: 2019-11-24 16:27:57  
End at: 2019-11-24 16:28:27  
Local clock offset: -0.068 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 19:19:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 352.96 Mbit/s  
95th percentile per-packet one-way delay: 186.833 ms  
Loss rate: 1.80%  
-- Flow 1:  
Average throughput: 69.65 Mbit/s  
95th percentile per-packet one-way delay: 200.802 ms  
Loss rate: 2.28%  
-- Flow 2:  
Average throughput: 313.46 Mbit/s  
95th percentile per-packet one-way delay: 137.404 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 232.58 Mbit/s  
95th percentile per-packet one-way delay: 135.795 ms  
Loss rate: 3.21%

Run 3: Report of FillP — Data Link

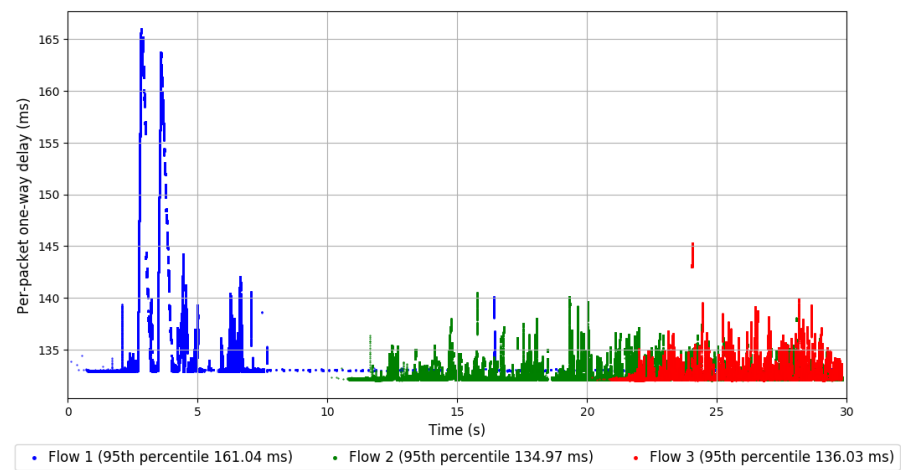
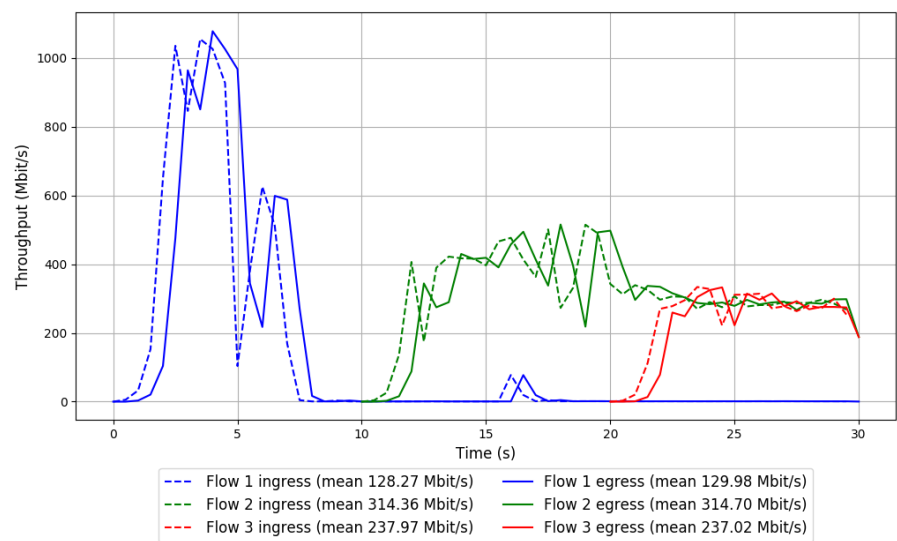


Run 4: Statistics of FillP

Start at: 2019-11-24 17:11:18  
End at: 2019-11-24 17:11:48  
Local clock offset: -0.053 ms  
Remote clock offset: -0.066 ms

# Below is generated by plot.py at 2019-11-24 19:21:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 414.59 Mbit/s  
95th percentile per-packet one-way delay: 145.227 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 129.98 Mbit/s  
95th percentile per-packet one-way delay: 161.045 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 314.70 Mbit/s  
95th percentile per-packet one-way delay: 134.968 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 237.02 Mbit/s  
95th percentile per-packet one-way delay: 136.032 ms  
Loss rate: 3.25%

Run 4: Report of FillP — Data Link

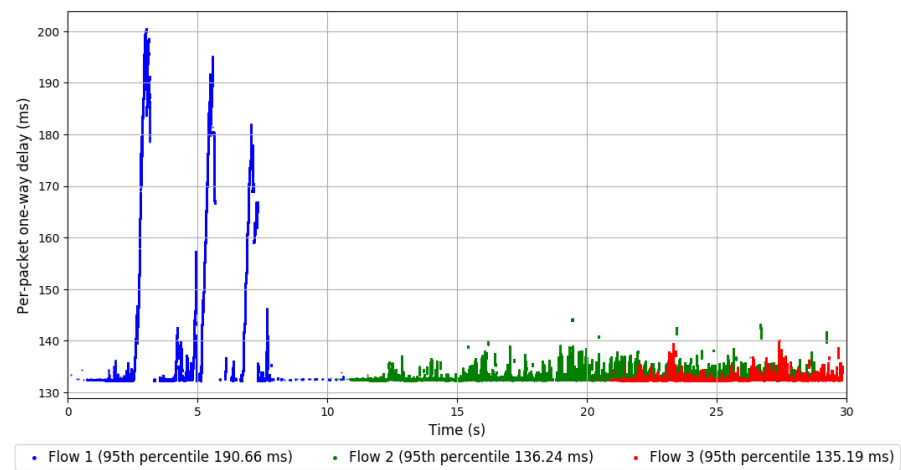
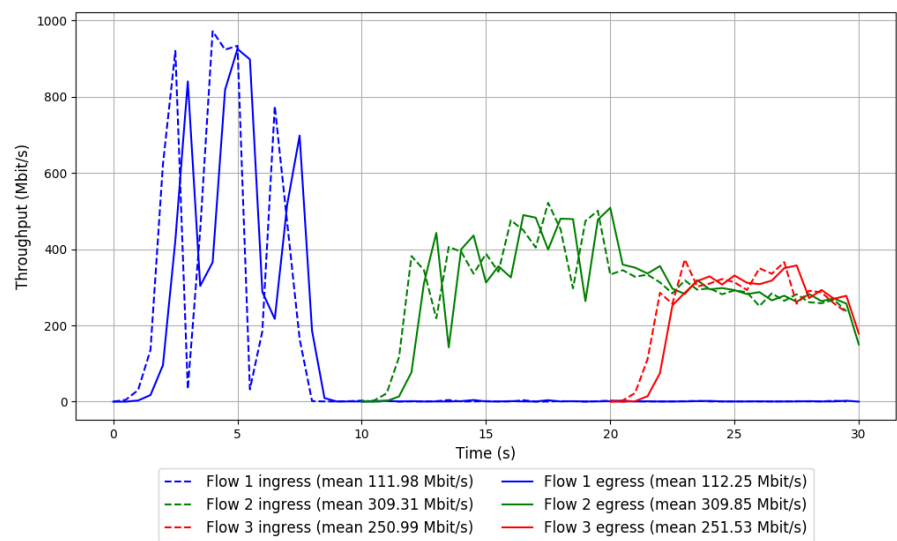


Run 5: Statistics of FillP

Start at: 2019-11-24 17:53:58  
End at: 2019-11-24 17:54:28  
Local clock offset: 0.229 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-11-24 19:21:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 398.94 Mbit/s  
95th percentile per-packet one-way delay: 173.791 ms  
Loss rate: 1.37%  
-- Flow 1:  
Average throughput: 112.25 Mbit/s  
95th percentile per-packet one-way delay: 190.665 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 309.85 Mbit/s  
95th percentile per-packet one-way delay: 136.244 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 251.53 Mbit/s  
95th percentile per-packet one-way delay: 135.192 ms  
Loss rate: 2.48%

Run 5: Report of FillP — Data Link





Run 1: Statistics of FillP-Sheep

Start at: 2019-11-24 15:08:25

End at: 2019-11-24 15:08:55

Local clock offset: -0.099 ms

Remote clock offset: 0.111 ms

# Below is generated by plot.py at 2019-11-24 19:21:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 313.37 Mbit/s

95th percentile per-packet one-way delay: 134.856 ms

Loss rate: 1.54%

-- Flow 1:

Average throughput: 39.97 Mbit/s

95th percentile per-packet one-way delay: 135.940 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 305.31 Mbit/s

95th percentile per-packet one-way delay: 134.937 ms

Loss rate: 1.18%

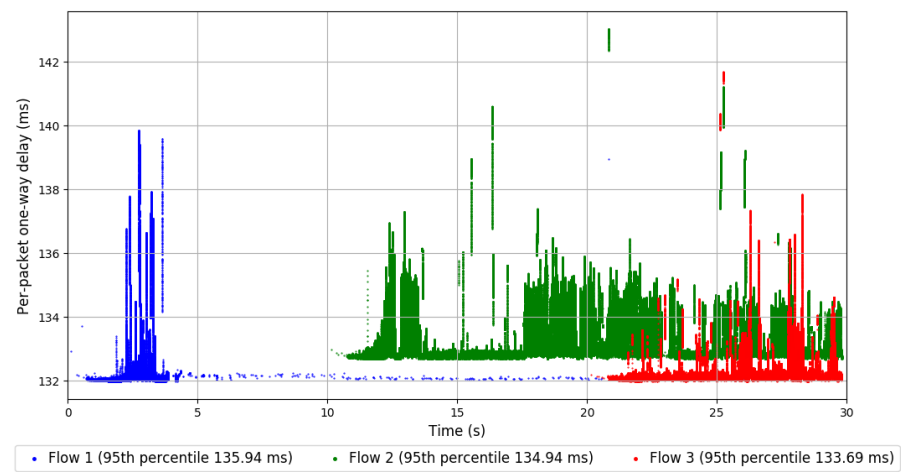
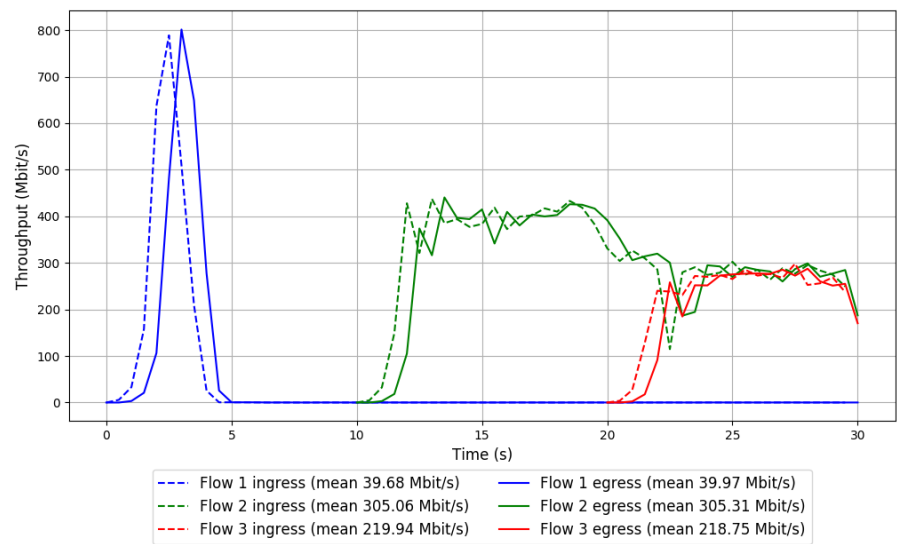
-- Flow 3:

Average throughput: 218.75 Mbit/s

95th percentile per-packet one-way delay: 133.688 ms

Loss rate: 3.36%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-11-24 15:51:33

End at: 2019-11-24 15:52:03

Local clock offset: -0.076 ms

Remote clock offset: 0.07 ms

# Below is generated by plot.py at 2019-11-24 19:22:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 369.75 Mbit/s

95th percentile per-packet one-way delay: 157.200 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 97.95 Mbit/s

95th percentile per-packet one-way delay: 174.519 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 303.95 Mbit/s

95th percentile per-packet one-way delay: 135.480 ms

Loss rate: 1.34%

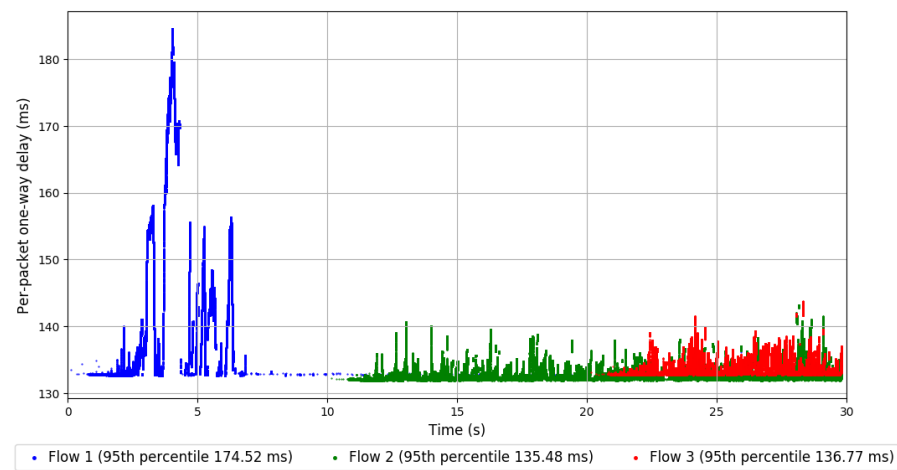
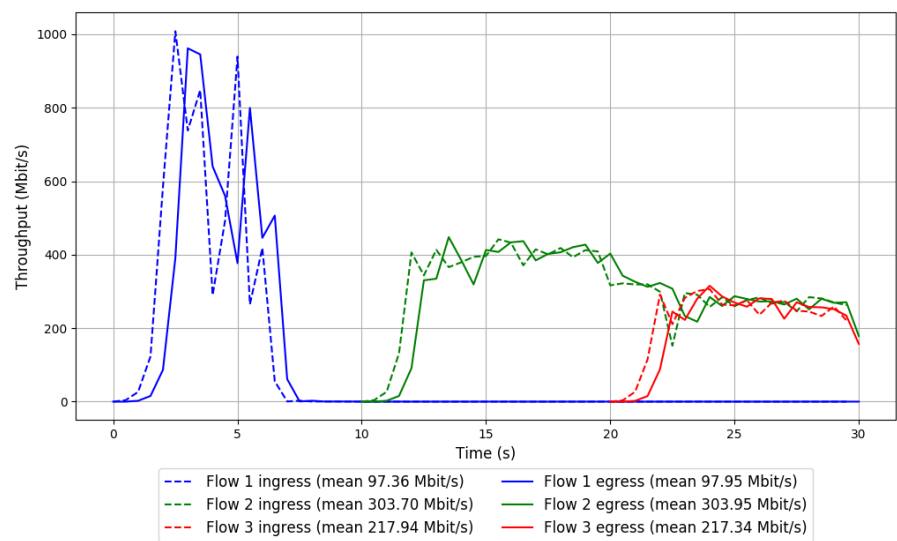
-- Flow 3:

Average throughput: 217.34 Mbit/s

95th percentile per-packet one-way delay: 136.774 ms

Loss rate: 3.02%

Run 2: Report of FillP-Sheep — Data Link



Run 3: Statistics of FillP-Sheep

Start at: 2019-11-24 16:34:50

End at: 2019-11-24 16:35:20

Local clock offset: -0.058 ms

Remote clock offset: 0.298 ms

# Below is generated by plot.py at 2019-11-24 19:24:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 399.58 Mbit/s

95th percentile per-packet one-way delay: 169.764 ms

Loss rate: 1.44%

-- Flow 1:

Average throughput: 120.58 Mbit/s

95th percentile per-packet one-way delay: 191.563 ms

Loss rate: 0.93%

-- Flow 2:

Average throughput: 313.63 Mbit/s

95th percentile per-packet one-way delay: 136.198 ms

Loss rate: 1.10%

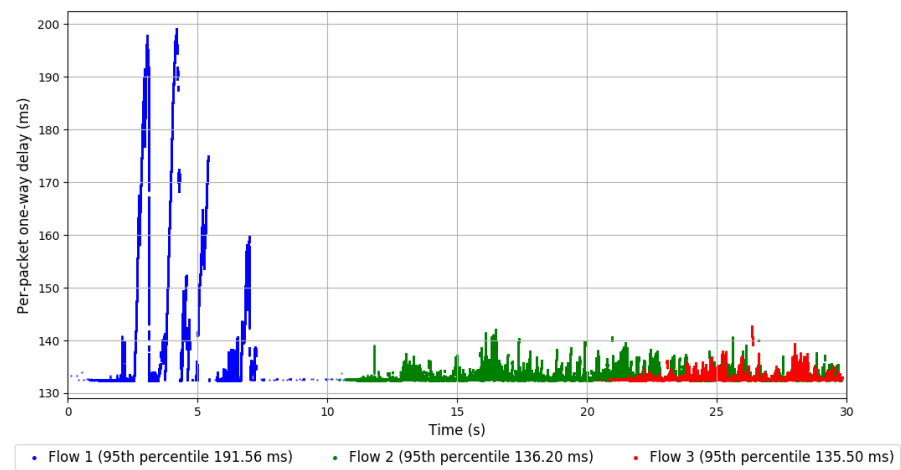
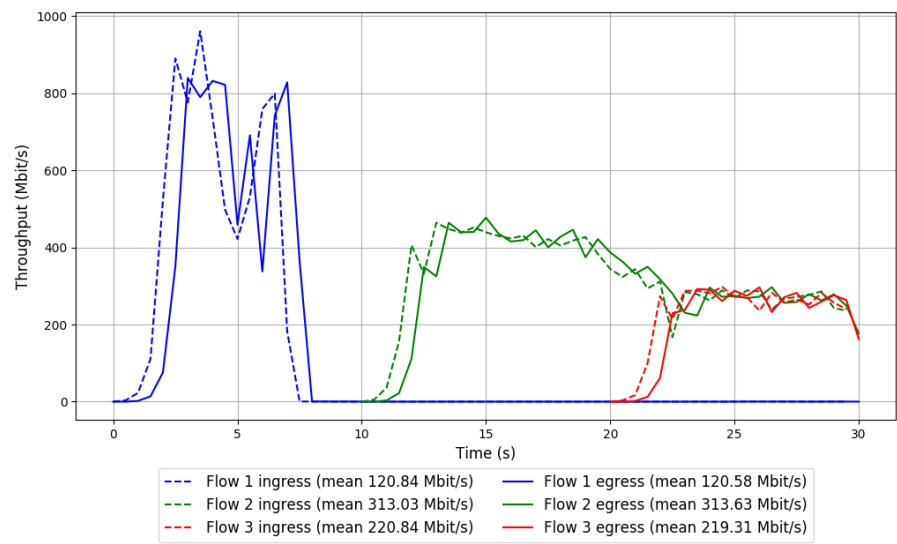
-- Flow 3:

Average throughput: 219.31 Mbit/s

95th percentile per-packet one-way delay: 135.504 ms

Loss rate: 3.25%

Run 3: Report of FillP-Sheep — Data Link

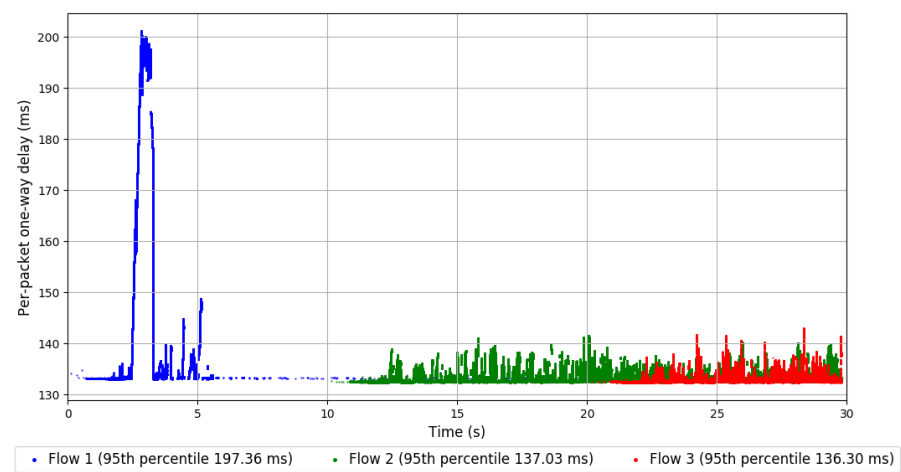
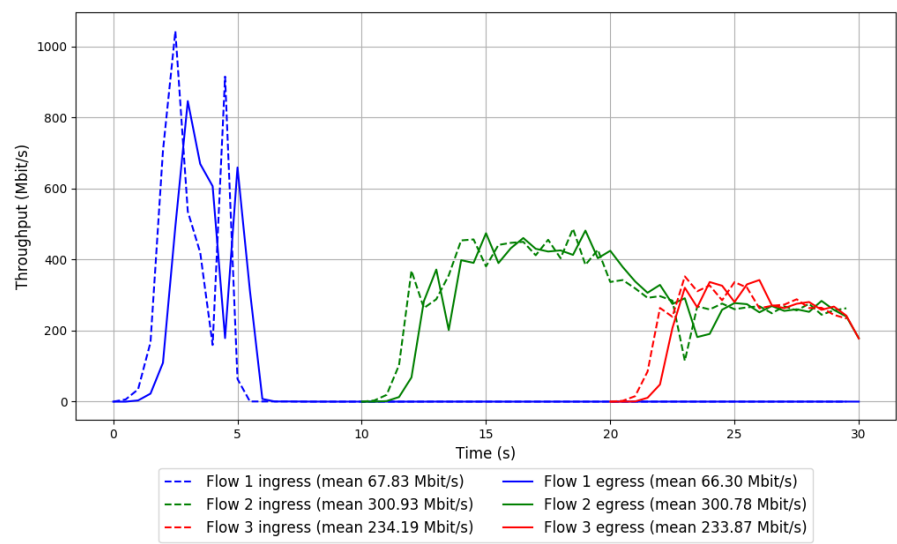


Run 4: Statistics of FillP-Sheep

Start at: 2019-11-24 17:18:15  
End at: 2019-11-24 17:18:45  
Local clock offset: 0.228 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-11-24 19:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 341.25 Mbit/s  
95th percentile per-packet one-way delay: 174.352 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 66.30 Mbit/s  
95th percentile per-packet one-way delay: 197.358 ms  
Loss rate: 3.51%  
-- Flow 2:  
Average throughput: 300.78 Mbit/s  
95th percentile per-packet one-way delay: 137.034 ms  
Loss rate: 1.35%  
-- Flow 3:  
Average throughput: 233.87 Mbit/s  
95th percentile per-packet one-way delay: 136.304 ms  
Loss rate: 2.87%

Run 4: Report of FillP-Sheep — Data Link





Run 5: Statistics of FillP-Sheep

Start at: 2019-11-24 18:01:03

End at: 2019-11-24 18:01:33

Local clock offset: 0.211 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-24 19:33:34

# Datalink statistics

-- Total of 3 flows:

Average throughput: 687.40 Mbit/s

95th percentile per-packet one-way delay: 163.718 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 413.70 Mbit/s

95th percentile per-packet one-way delay: 171.649 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 300.67 Mbit/s

95th percentile per-packet one-way delay: 136.231 ms

Loss rate: 1.27%

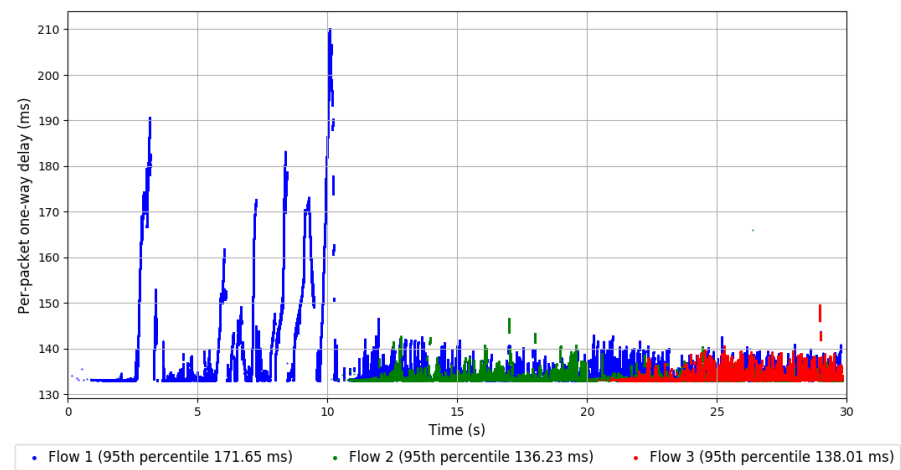
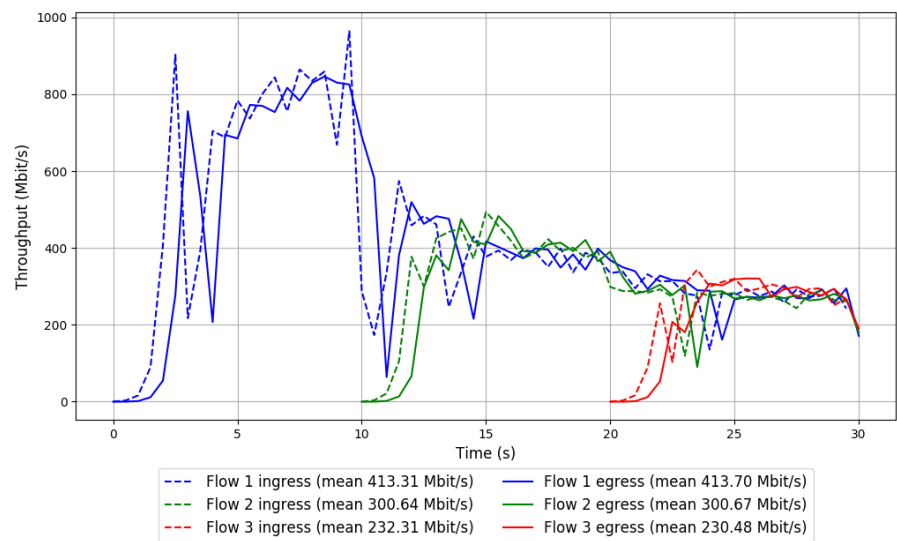
-- Flow 3:

Average throughput: 230.48 Mbit/s

95th percentile per-packet one-way delay: 138.007 ms

Loss rate: 3.28%

Run 5: Report of FillP-Sheep — Data Link

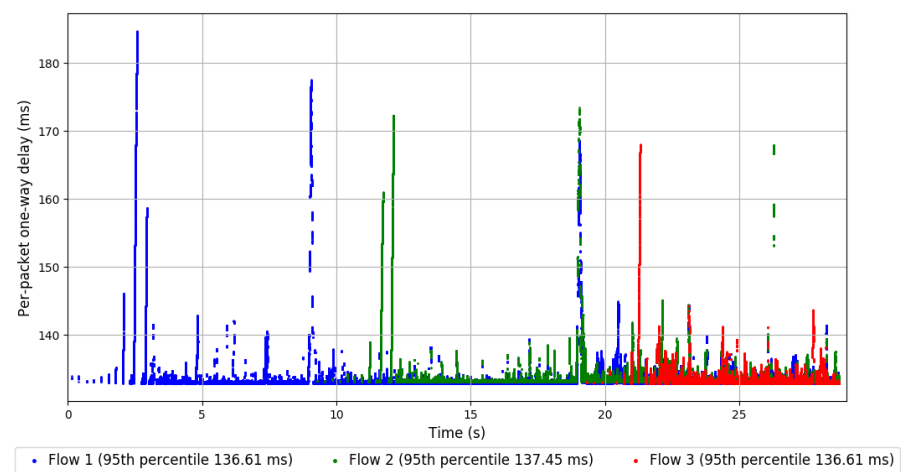
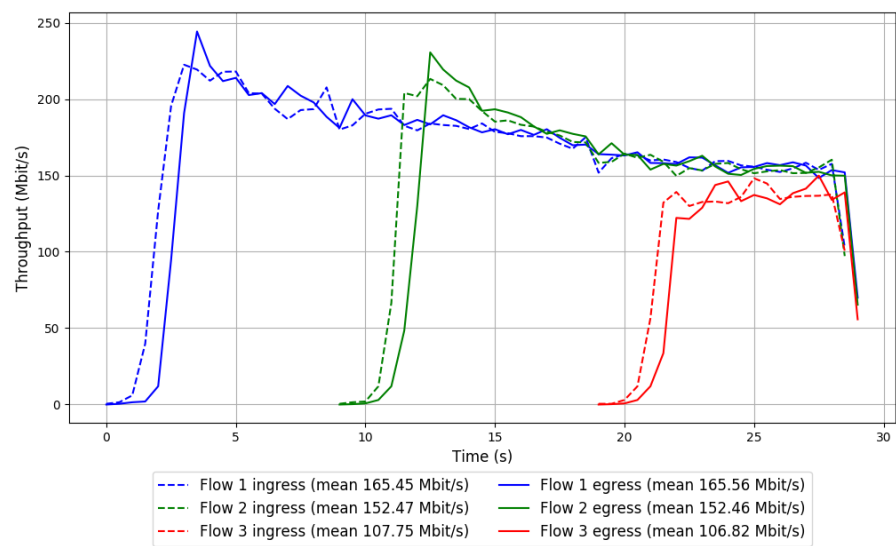


Run 1: Statistics of Indigo

Start at: 2019-11-24 14:52:51  
End at: 2019-11-24 14:53:21  
Local clock offset: 0.19 ms  
Remote clock offset: -0.137 ms

# Below is generated by plot.py at 2019-11-24 19:33:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 304.28 Mbit/s  
95th percentile per-packet one-way delay: 136.800 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 165.56 Mbit/s  
95th percentile per-packet one-way delay: 136.610 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 152.46 Mbit/s  
95th percentile per-packet one-way delay: 137.448 ms  
Loss rate: 1.36%  
-- Flow 3:  
Average throughput: 106.82 Mbit/s  
95th percentile per-packet one-way delay: 136.608 ms  
Loss rate: 3.61%

Run 1: Report of Indigo — Data Link

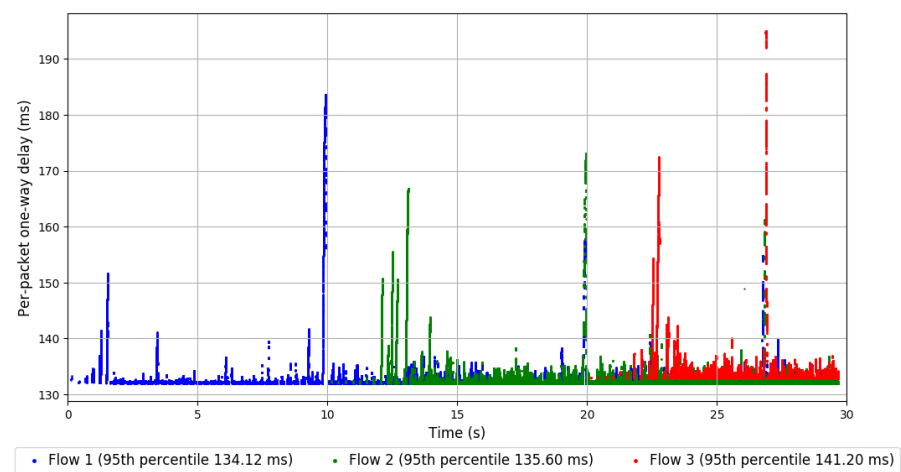
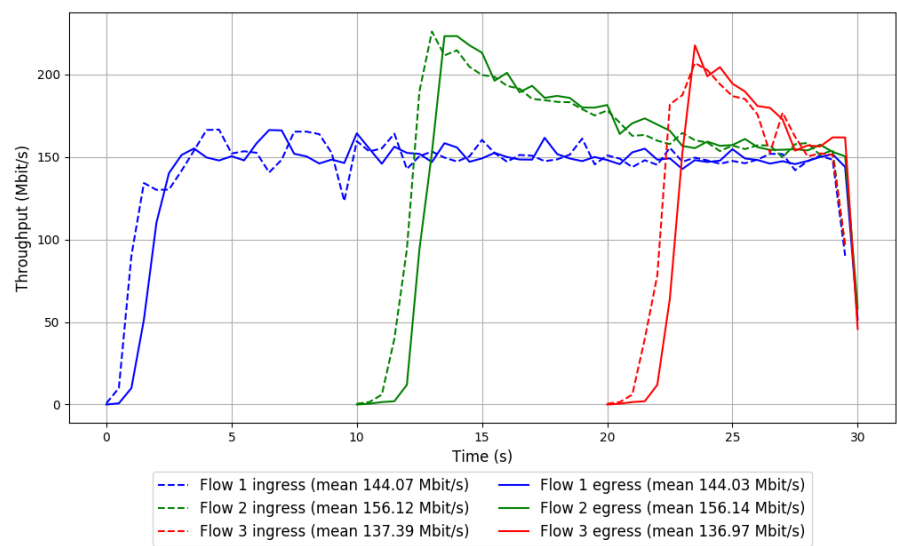


Run 2: Statistics of Indigo

Start at: 2019-11-24 15:35:51  
End at: 2019-11-24 15:36:21  
Local clock offset: -0.082 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 19:33:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 291.40 Mbit/s  
95th percentile per-packet one-way delay: 135.649 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 144.03 Mbit/s  
95th percentile per-packet one-way delay: 134.121 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 156.14 Mbit/s  
95th percentile per-packet one-way delay: 135.602 ms  
Loss rate: 1.33%  
-- Flow 3:  
Average throughput: 136.97 Mbit/s  
95th percentile per-packet one-way delay: 141.196 ms  
Loss rate: 3.03%

Run 2: Report of Indigo — Data Link

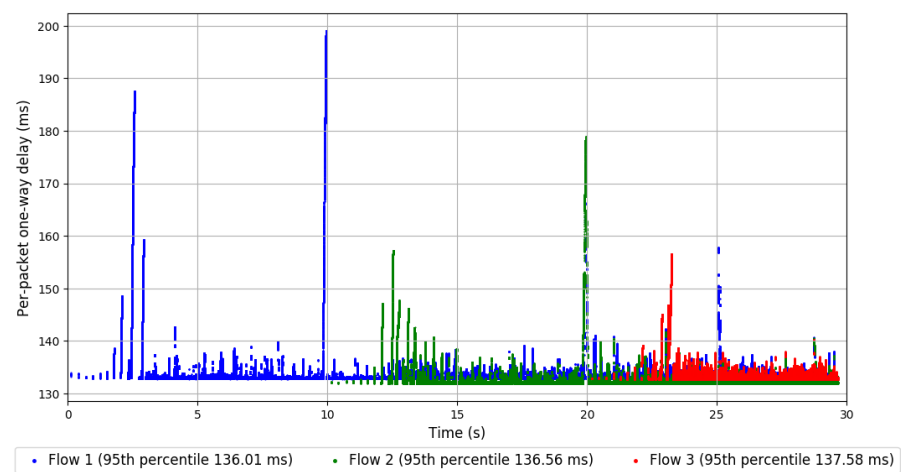
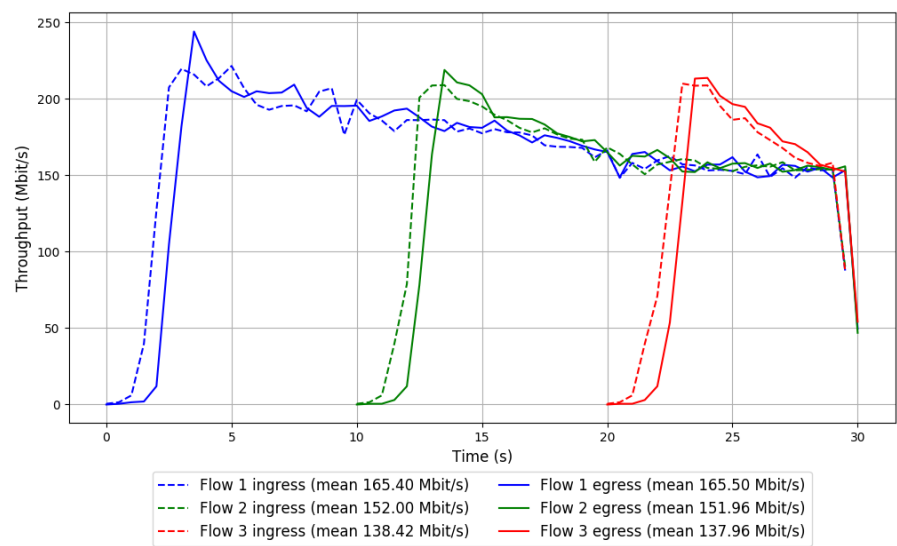


Run 3: Statistics of Indigo

Start at: 2019-11-24 16:19:22  
End at: 2019-11-24 16:19:52  
Local clock offset: -0.071 ms  
Remote clock offset: -0.068 ms

# Below is generated by plot.py at 2019-11-24 19:33:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 310.11 Mbit/s  
95th percentile per-packet one-way delay: 136.380 ms  
Loss rate: 1.33%  
-- Flow 1:  
Average throughput: 165.50 Mbit/s  
95th percentile per-packet one-way delay: 136.008 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 151.96 Mbit/s  
95th percentile per-packet one-way delay: 136.558 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 137.96 Mbit/s  
95th percentile per-packet one-way delay: 137.578 ms  
Loss rate: 3.05%

Run 3: Report of Indigo — Data Link



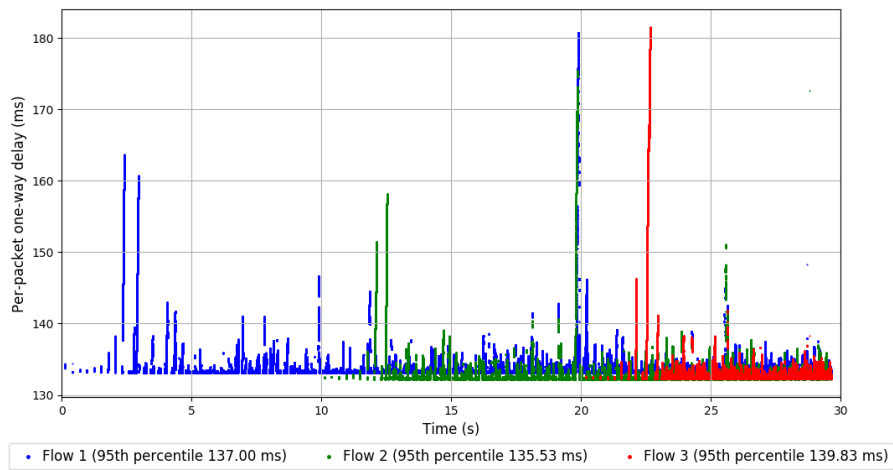
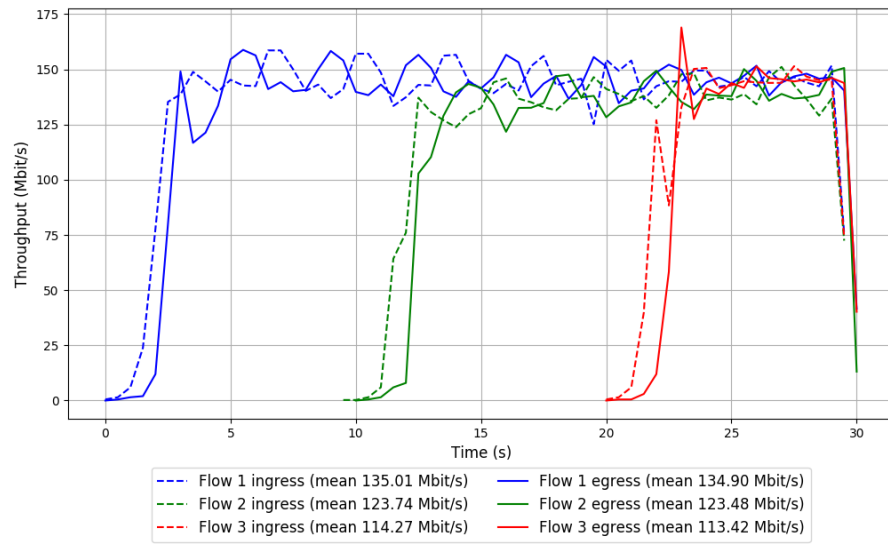


Run 4: Statistics of Indigo

Start at: 2019-11-24 17:02:36  
End at: 2019-11-24 17:03:06  
Local clock offset: -0.113 ms  
Remote clock offset: -0.393 ms

# Below is generated by plot.py at 2019-11-24 19:33:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 252.92 Mbit/s  
95th percentile per-packet one-way delay: 136.658 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 134.90 Mbit/s  
95th percentile per-packet one-way delay: 136.997 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 123.48 Mbit/s  
95th percentile per-packet one-way delay: 135.525 ms  
Loss rate: 1.55%  
-- Flow 3:  
Average throughput: 113.42 Mbit/s  
95th percentile per-packet one-way delay: 139.832 ms  
Loss rate: 3.46%

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

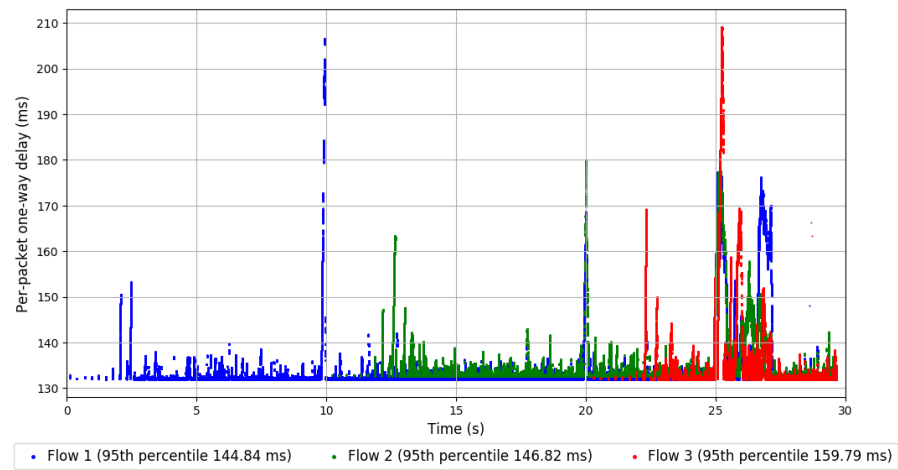
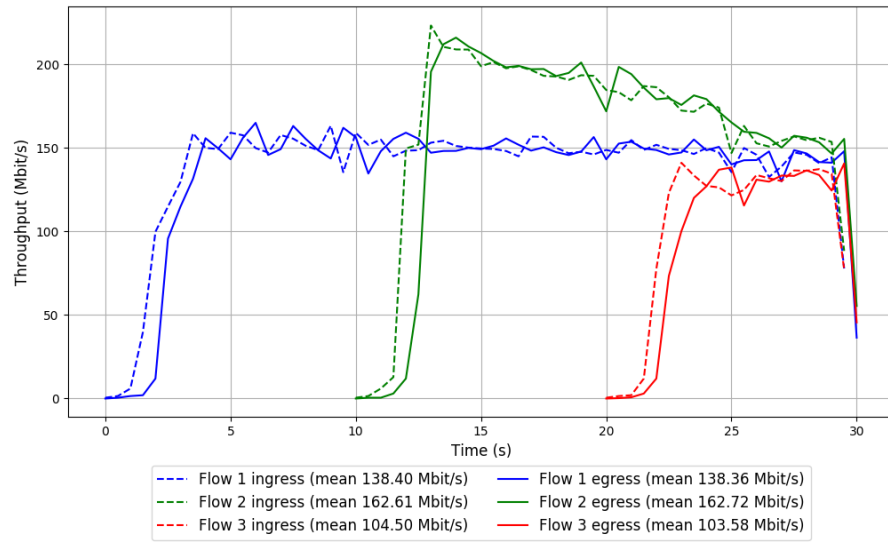


Run 5: Statistics of Indigo

Start at: 2019-11-24 17:45:14  
End at: 2019-11-24 17:45:44  
Local clock offset: -0.121 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-11-24 19:33:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 278.28 Mbit/s  
95th percentile per-packet one-way delay: 147.970 ms  
Loss rate: 1.39%  
-- Flow 1:  
Average throughput: 138.36 Mbit/s  
95th percentile per-packet one-way delay: 144.839 ms  
Loss rate: 0.93%  
-- Flow 2:  
Average throughput: 162.72 Mbit/s  
95th percentile per-packet one-way delay: 146.823 ms  
Loss rate: 1.28%  
-- Flow 3:  
Average throughput: 103.58 Mbit/s  
95th percentile per-packet one-way delay: 159.791 ms  
Loss rate: 3.63%

## Run 5: Report of Indigo — Data Link

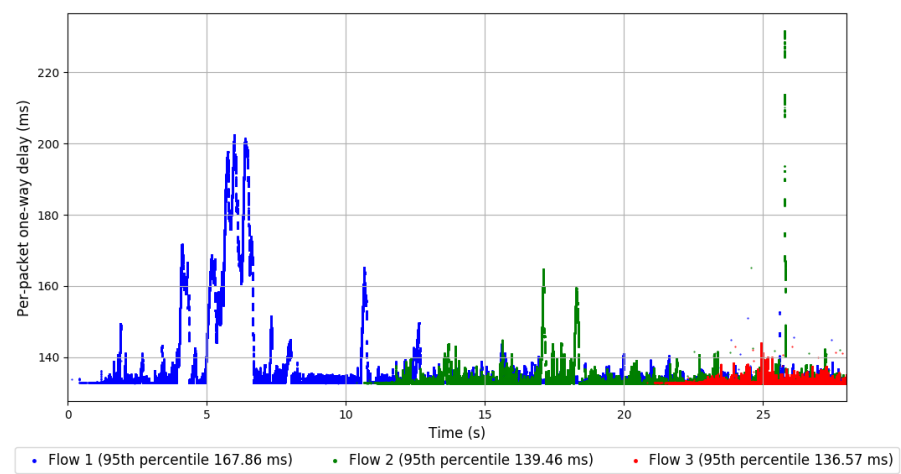
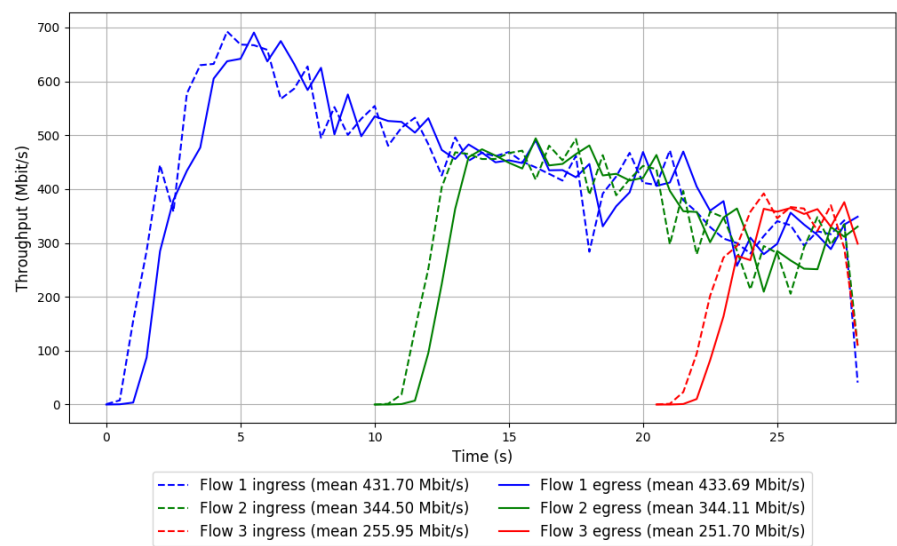


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-11-24 15:33:52  
End at: 2019-11-24 15:34:22  
Local clock offset: -0.054 ms  
Remote clock offset: -0.004 ms

# Below is generated by plot.py at 2019-11-24 19:36:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 715.99 Mbit/s  
95th percentile per-packet one-way delay: 161.079 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 433.69 Mbit/s  
95th percentile per-packet one-way delay: 167.856 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 344.11 Mbit/s  
95th percentile per-packet one-way delay: 139.459 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 251.70 Mbit/s  
95th percentile per-packet one-way delay: 136.575 ms  
Loss rate: 5.19%

Run 1: Report of Indigo-MusesC3 — Data Link

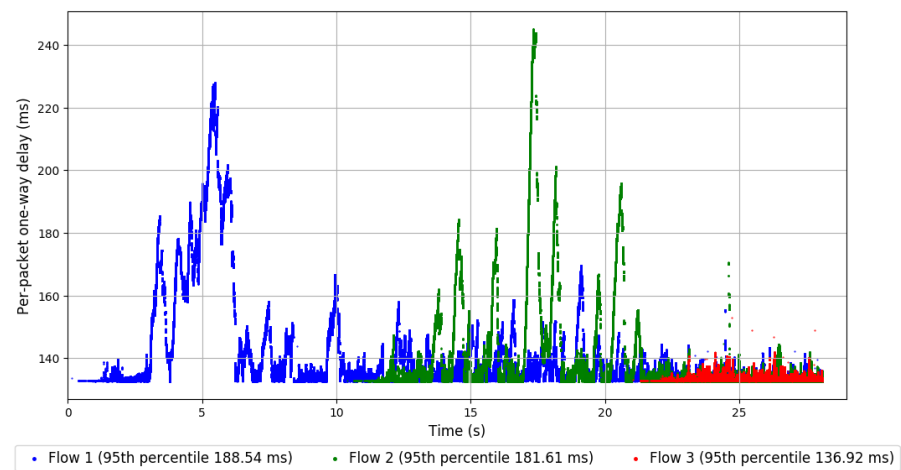
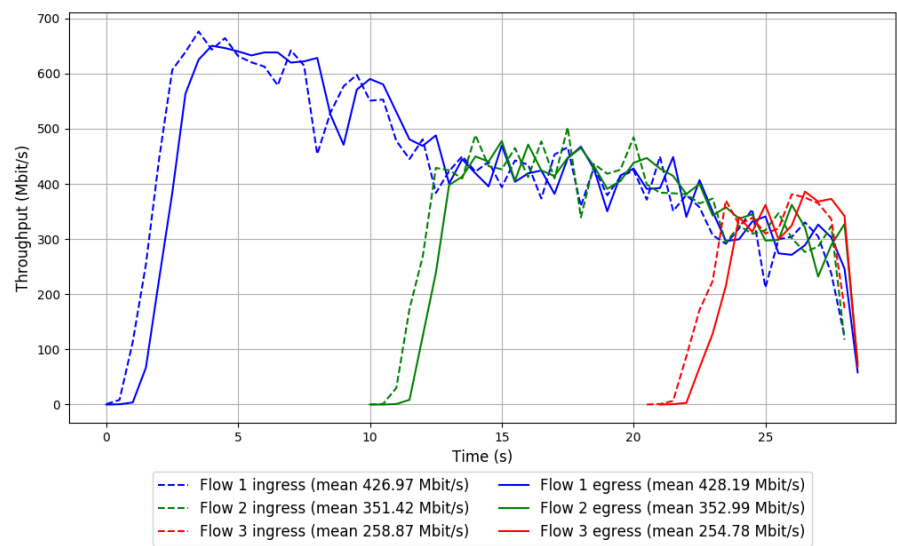


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-11-24 16:17:23  
End at: 2019-11-24 16:17:53  
Local clock offset: -0.118 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-11-24 19:37:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 715.88 Mbit/s  
95th percentile per-packet one-way delay: 184.353 ms  
Loss rate: 1.18%  
-- Flow 1:  
Average throughput: 428.19 Mbit/s  
95th percentile per-packet one-way delay: 188.537 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 352.99 Mbit/s  
95th percentile per-packet one-way delay: 181.612 ms  
Loss rate: 1.05%  
-- Flow 3:  
Average throughput: 254.78 Mbit/s  
95th percentile per-packet one-way delay: 136.922 ms  
Loss rate: 5.17%

Run 2: Report of Indigo-MusesC3 — Data Link



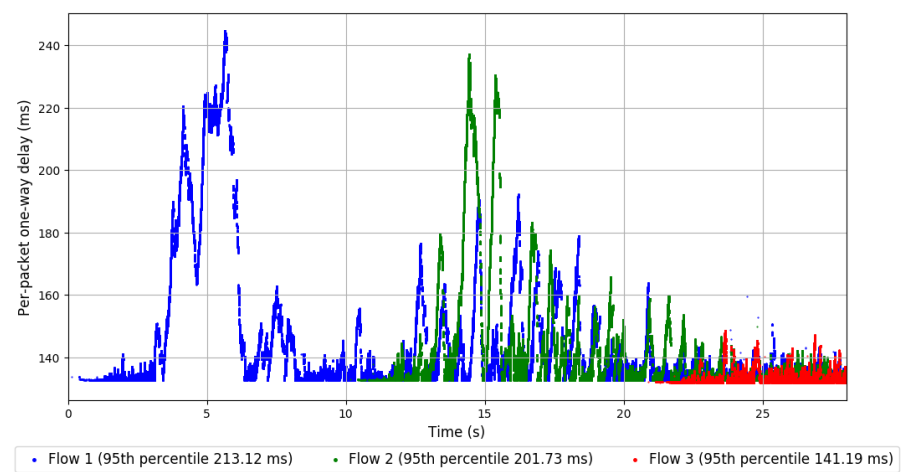
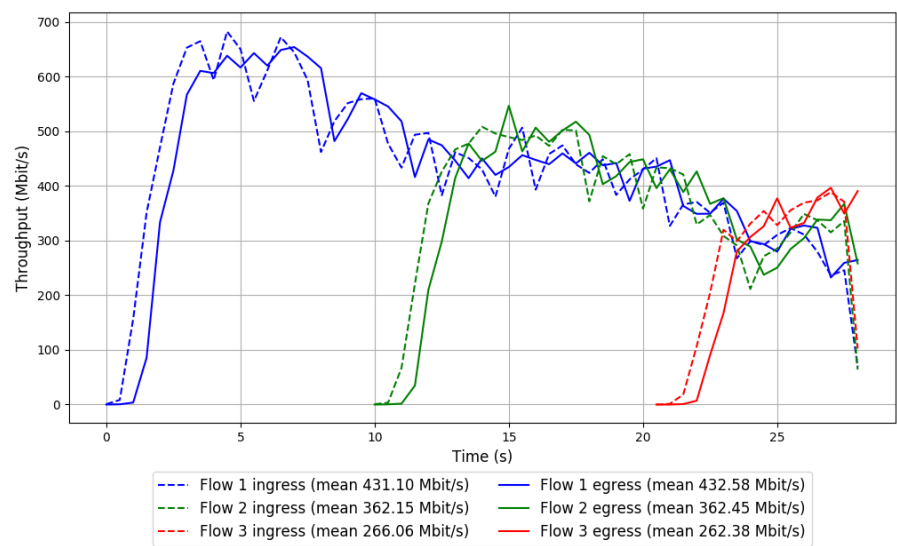


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-11-24 17:00:36  
End at: 2019-11-24 17:01:06  
Local clock offset: -0.115 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 19:43:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 731.34 Mbit/s  
95th percentile per-packet one-way delay: 206.449 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 432.58 Mbit/s  
95th percentile per-packet one-way delay: 213.122 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 362.45 Mbit/s  
95th percentile per-packet one-way delay: 201.728 ms  
Loss rate: 1.40%  
-- Flow 3:  
Average throughput: 262.38 Mbit/s  
95th percentile per-packet one-way delay: 141.190 ms  
Loss rate: 4.99%

Run 3: Report of Indigo-MusesC3 — Data Link

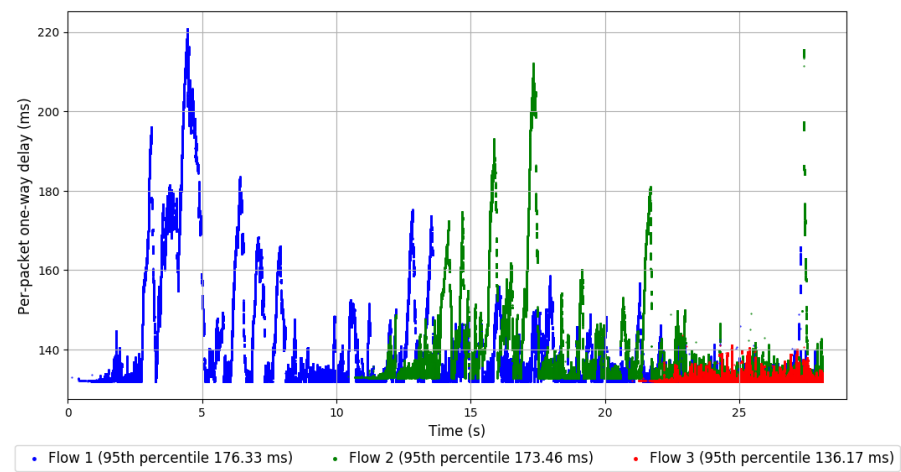
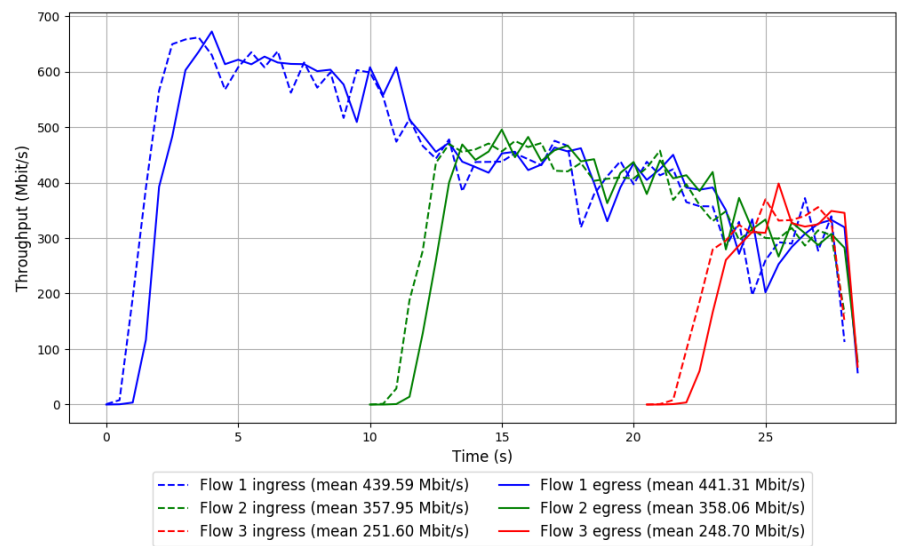


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-11-24 17:43:11  
End at: 2019-11-24 17:43:41  
Local clock offset: -0.071 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-24 19:44:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 730.69 Mbit/s  
95th percentile per-packet one-way delay: 174.662 ms  
Loss rate: 1.21%  
-- Flow 1:  
Average throughput: 441.31 Mbit/s  
95th percentile per-packet one-way delay: 176.332 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 358.06 Mbit/s  
95th percentile per-packet one-way delay: 173.461 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 248.70 Mbit/s  
95th percentile per-packet one-way delay: 136.167 ms  
Loss rate: 4.73%

Run 4: Report of Indigo-MusesC3 — Data Link



Run 5: Statistics of Indigo-MusesC3

Start at: 2019-11-24 18:26:46

End at: 2019-11-24 18:27:16

Local clock offset: -0.04 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-11-24 19:45:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 753.87 Mbit/s

95th percentile per-packet one-way delay: 168.910 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 462.30 Mbit/s

95th percentile per-packet one-way delay: 173.476 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 363.92 Mbit/s

95th percentile per-packet one-way delay: 161.546 ms

Loss rate: 1.24%

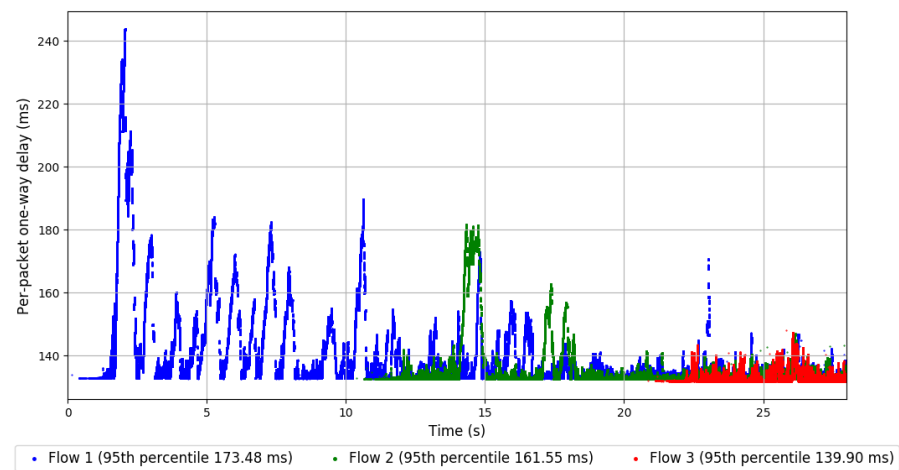
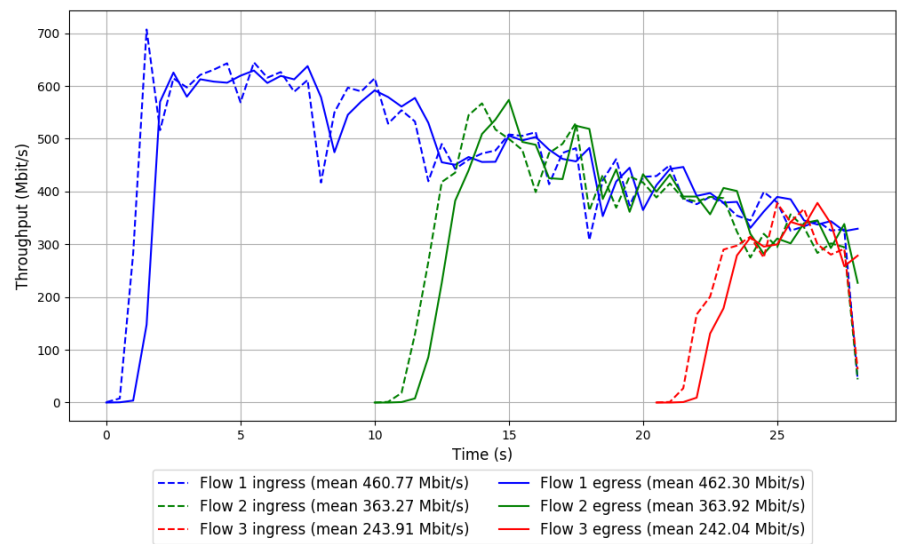
-- Flow 3:

Average throughput: 242.04 Mbit/s

95th percentile per-packet one-way delay: 139.901 ms

Loss rate: 4.35%

Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-11-24 15:30:05

End at: 2019-11-24 15:30:35

Local clock offset: 0.271 ms

Remote clock offset: 0.009 ms

# Below is generated by plot.py at 2019-11-24 19:45:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 607.83 Mbit/s

95th percentile per-packet one-way delay: 167.300 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 384.48 Mbit/s

95th percentile per-packet one-way delay: 184.522 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 317.63 Mbit/s

95th percentile per-packet one-way delay: 143.279 ms

Loss rate: 1.87%

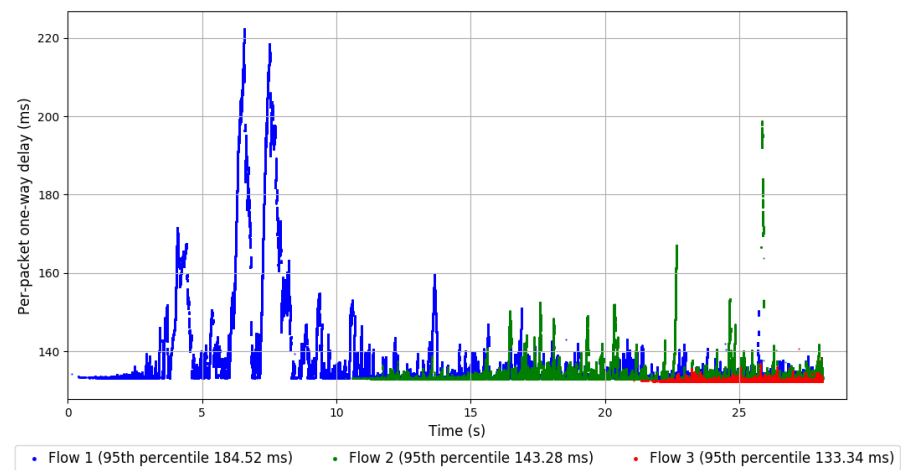
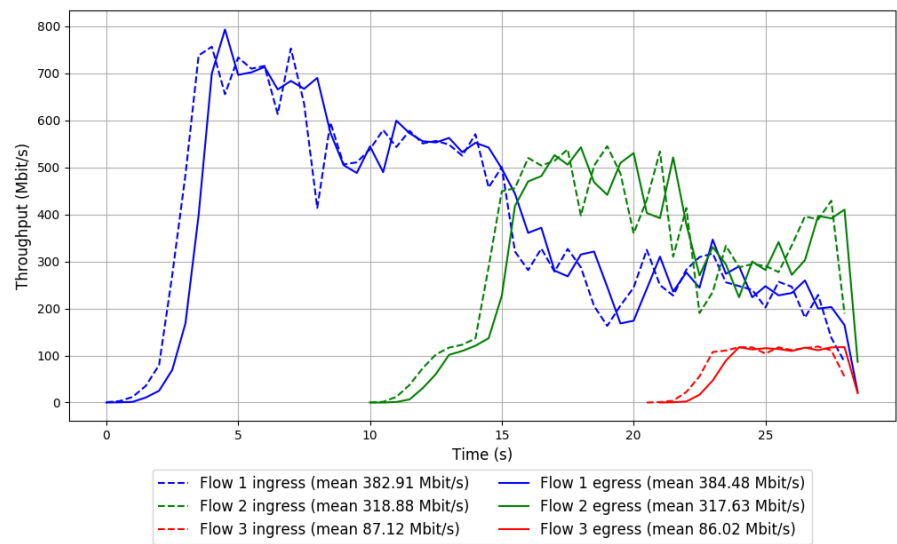
-- Flow 3:

Average throughput: 86.02 Mbit/s

95th percentile per-packet one-way delay: 133.335 ms

Loss rate: 4.89%

Run 1: Report of Indigo-MusesC5 — Data Link



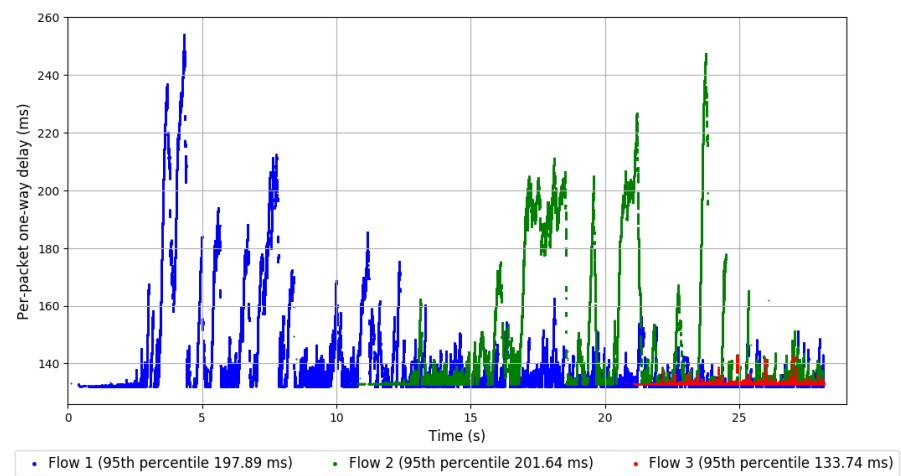
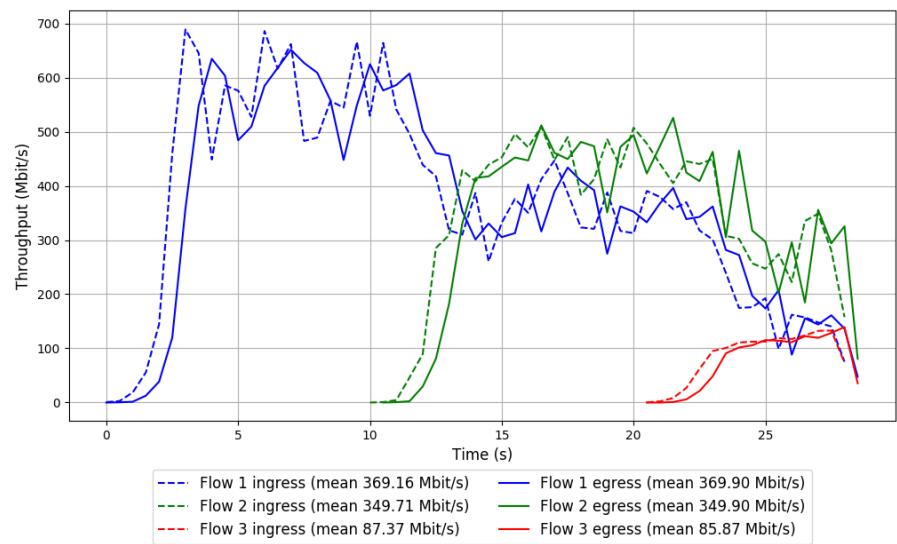


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-11-24 16:13:30  
End at: 2019-11-24 16:14:00  
Local clock offset: -0.098 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 19:45:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 612.03 Mbit/s  
95th percentile per-packet one-way delay: 200.776 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 369.90 Mbit/s  
95th percentile per-packet one-way delay: 197.888 ms  
Loss rate: 0.75%  
-- Flow 2:  
Average throughput: 349.90 Mbit/s  
95th percentile per-packet one-way delay: 201.642 ms  
Loss rate: 1.34%  
-- Flow 3:  
Average throughput: 85.87 Mbit/s  
95th percentile per-packet one-way delay: 133.735 ms  
Loss rate: 5.20%

Run 2: Report of Indigo-MusesC5 — Data Link

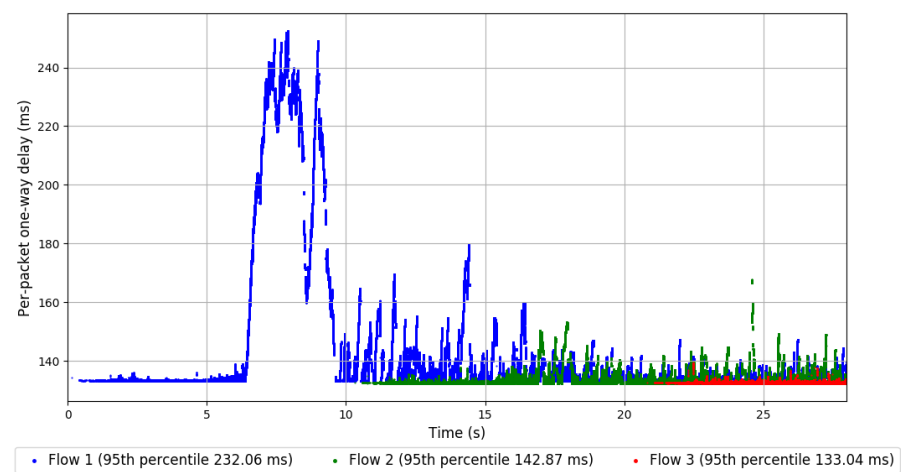
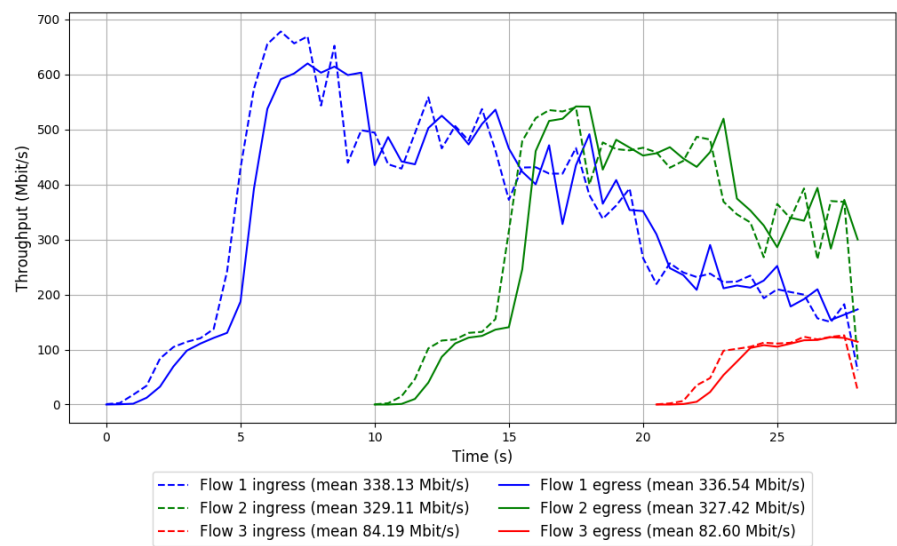


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-11-24 16:56:50  
End at: 2019-11-24 16:57:20  
Local clock offset: 0.254 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-11-24 19:45:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 565.40 Mbit/s  
95th percentile per-packet one-way delay: 224.702 ms  
Loss rate: 1.81%  
-- Flow 1:  
Average throughput: 336.54 Mbit/s  
95th percentile per-packet one-way delay: 232.061 ms  
Loss rate: 1.44%  
-- Flow 2:  
Average throughput: 327.42 Mbit/s  
95th percentile per-packet one-way delay: 142.871 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 82.60 Mbit/s  
95th percentile per-packet one-way delay: 133.042 ms  
Loss rate: 5.55%

Run 3: Report of Indigo-MusesC5 — Data Link



Run 4: Statistics of Indigo-MusesC5

Start at: 2019-11-24 17:39:44

End at: 2019-11-24 17:40:14

Local clock offset: -0.109 ms

Remote clock offset: 0.343 ms

# Below is generated by plot.py at 2019-11-24 19:48:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 578.17 Mbit/s

95th percentile per-packet one-way delay: 191.748 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 348.19 Mbit/s

95th percentile per-packet one-way delay: 207.098 ms

Loss rate: 0.35%

-- Flow 2:

Average throughput: 325.82 Mbit/s

95th percentile per-packet one-way delay: 149.625 ms

Loss rate: 1.94%

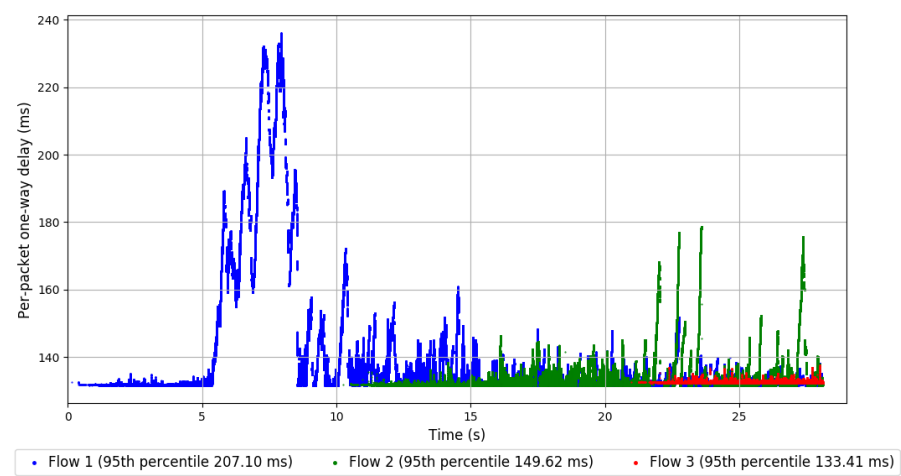
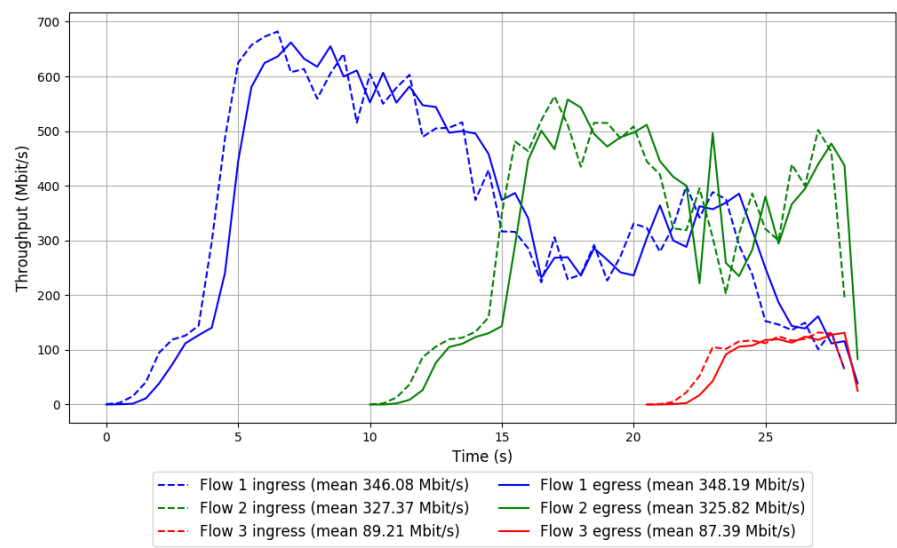
-- Flow 3:

Average throughput: 87.39 Mbit/s

95th percentile per-packet one-way delay: 133.412 ms

Loss rate: 5.59%

Run 4: Report of Indigo-MusesC5 — Data Link

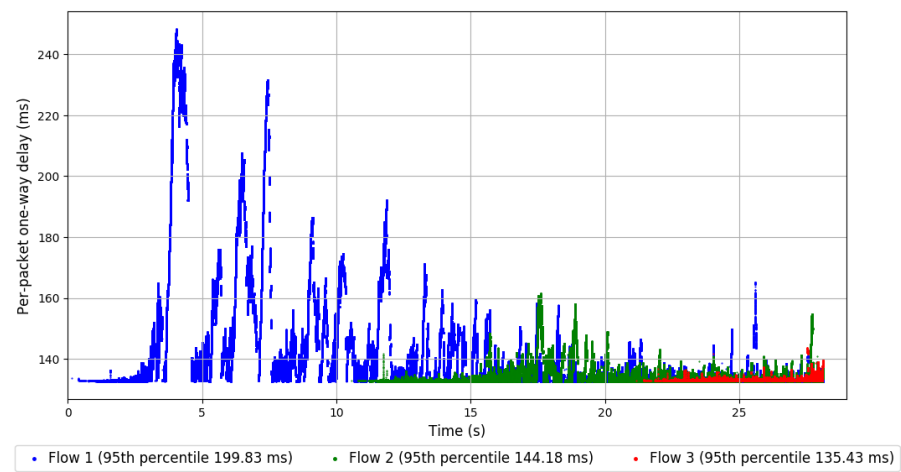
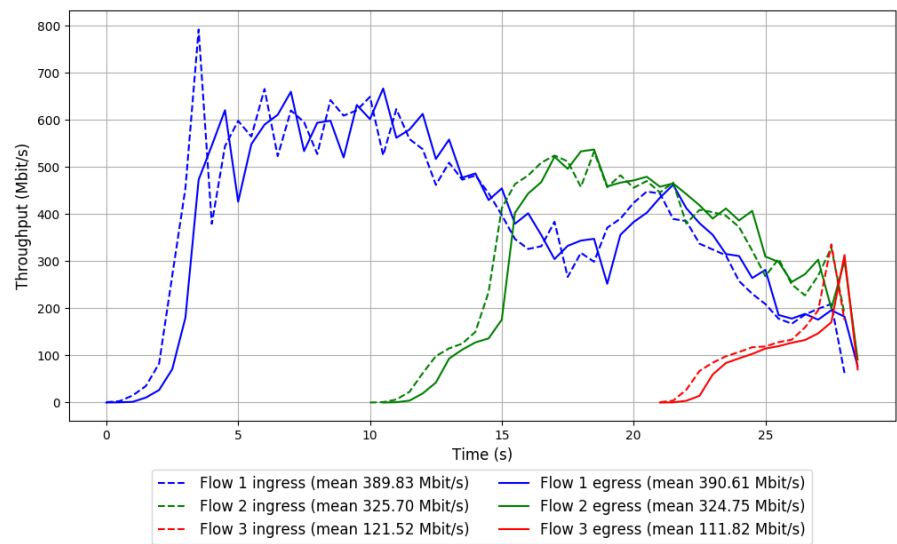


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-11-24 18:22:51  
End at: 2019-11-24 18:23:21  
Local clock offset: -0.059 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-11-24 19:49:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 622.14 Mbit/s  
95th percentile per-packet one-way delay: 181.272 ms  
Loss rate: 1.59%  
-- Flow 1:  
Average throughput: 390.61 Mbit/s  
95th percentile per-packet one-way delay: 199.832 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 324.75 Mbit/s  
95th percentile per-packet one-way delay: 144.182 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 111.82 Mbit/s  
95th percentile per-packet one-way delay: 135.430 ms  
Loss rate: 11.39%

Run 5: Report of Indigo-MusesC5 — Data Link





Run 1: Statistics of Indigo-MusesD

Start at: 2019-11-24 15:14:04

End at: 2019-11-24 15:14:34

Local clock offset: -0.134 ms

Remote clock offset: 0.194 ms

# Below is generated by plot.py at 2019-11-24 19:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 608.00 Mbit/s

95th percentile per-packet one-way delay: 140.230 ms

Loss rate: 1.27%

-- Flow 1:

Average throughput: 363.97 Mbit/s

95th percentile per-packet one-way delay: 143.411 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 350.92 Mbit/s

95th percentile per-packet one-way delay: 134.717 ms

Loss rate: 1.20%

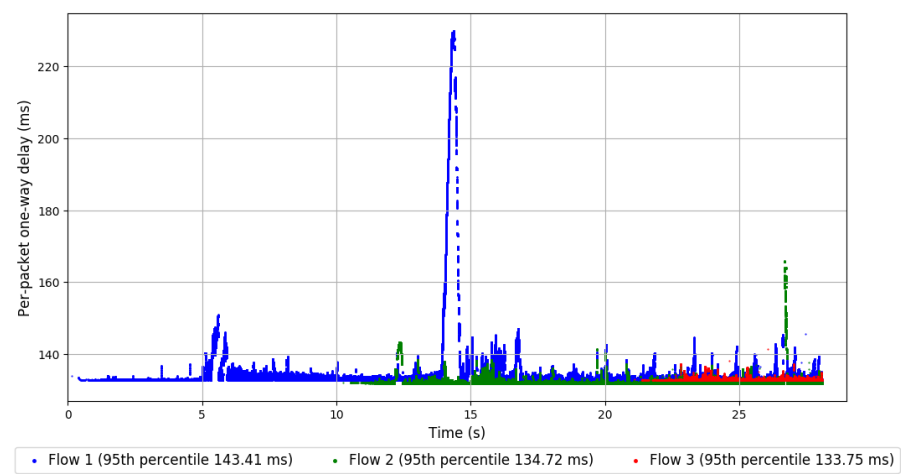
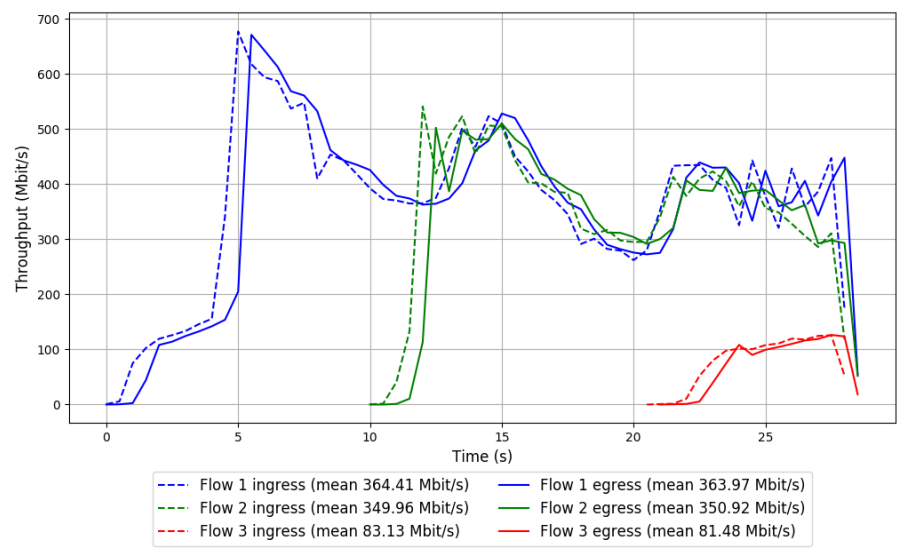
-- Flow 3:

Average throughput: 81.48 Mbit/s

95th percentile per-packet one-way delay: 133.746 ms

Loss rate: 5.59%

Run 1: Report of Indigo-MusesD — Data Link

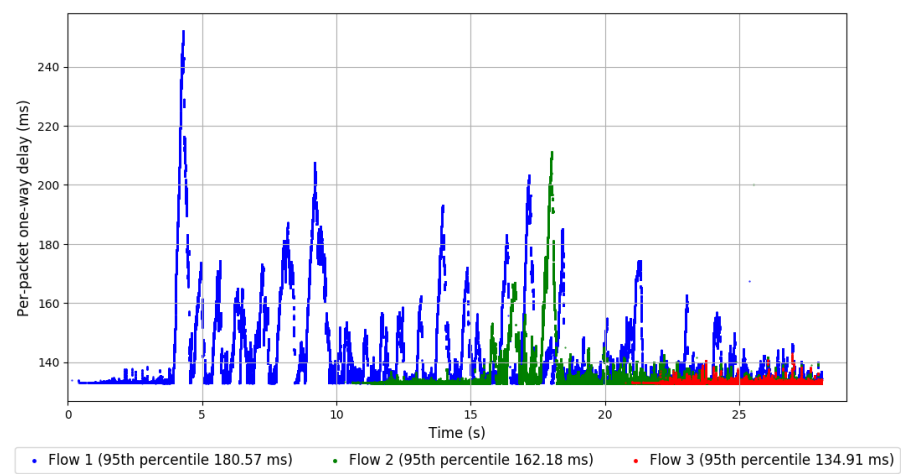
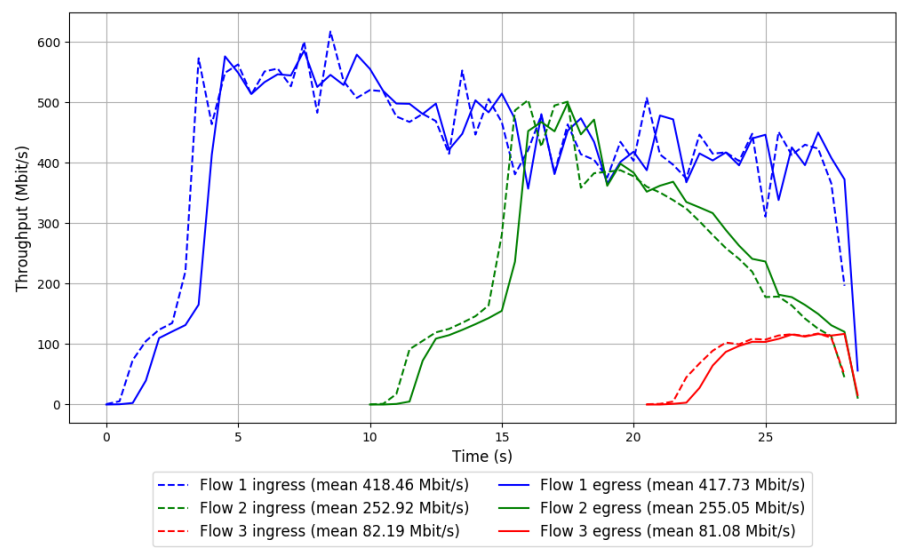


Run 2: Statistics of Indigo-MusesD

Start at: 2019-11-24 15:57:17  
End at: 2019-11-24 15:57:47  
Local clock offset: 0.019 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-11-24 19:54:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 601.04 Mbit/s  
95th percentile per-packet one-way delay: 177.642 ms  
Loss rate: 1.10%  
-- Flow 1:  
Average throughput: 417.73 Mbit/s  
95th percentile per-packet one-way delay: 180.575 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 255.05 Mbit/s  
95th percentile per-packet one-way delay: 162.177 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 81.08 Mbit/s  
95th percentile per-packet one-way delay: 134.910 ms  
Loss rate: 4.80%

Run 2: Report of Indigo-MusesD — Data Link

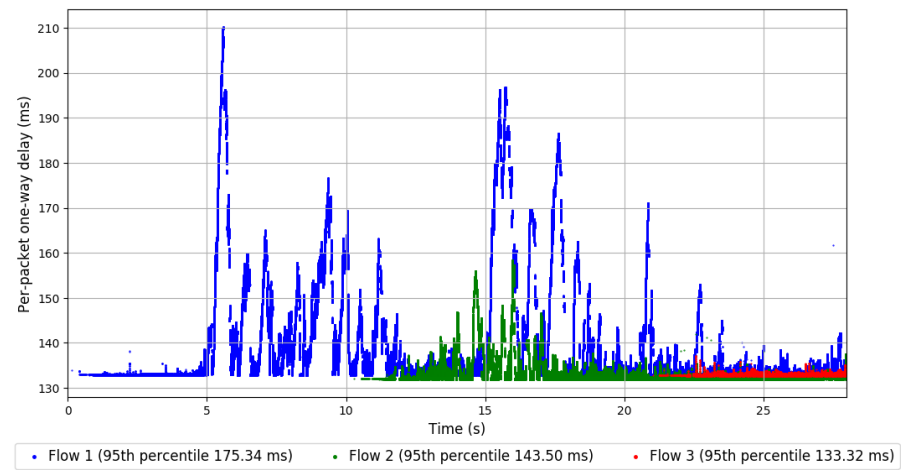
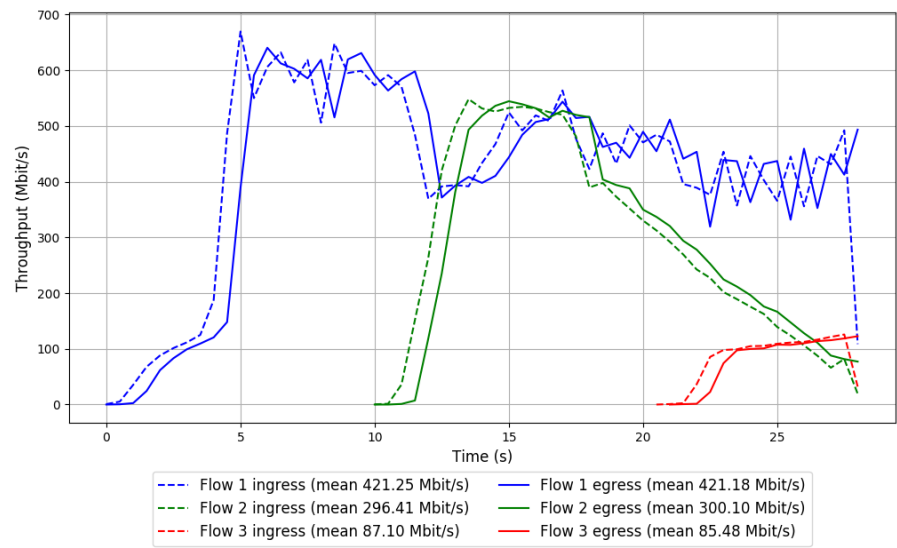


Run 3: Statistics of Indigo-MusesD

Start at: 2019-11-24 16:40:36  
End at: 2019-11-24 16:41:06  
Local clock offset: -0.082 ms  
Remote clock offset: -0.085 ms

# Below is generated by plot.py at 2019-11-24 19:55:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 632.99 Mbit/s  
95th percentile per-packet one-way delay: 167.652 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 421.18 Mbit/s  
95th percentile per-packet one-way delay: 175.335 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 300.10 Mbit/s  
95th percentile per-packet one-way delay: 143.502 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 85.48 Mbit/s  
95th percentile per-packet one-way delay: 133.316 ms  
Loss rate: 5.49%

Run 3: Report of Indigo-MusesD — Data Link

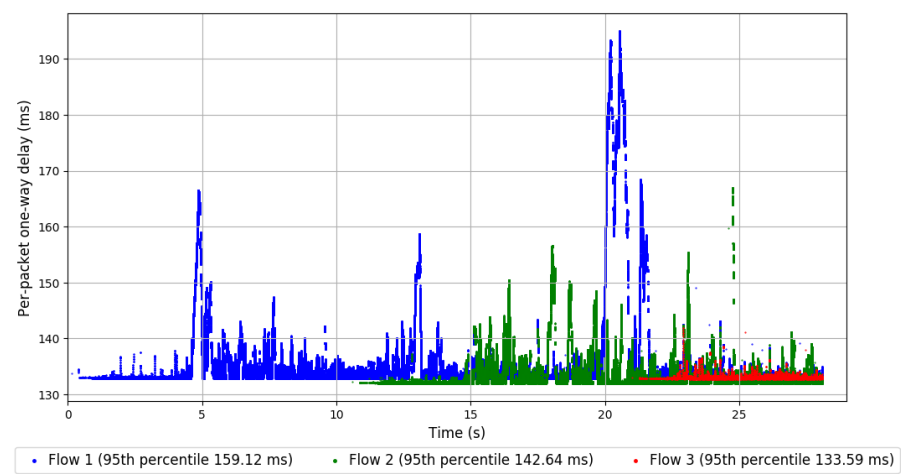
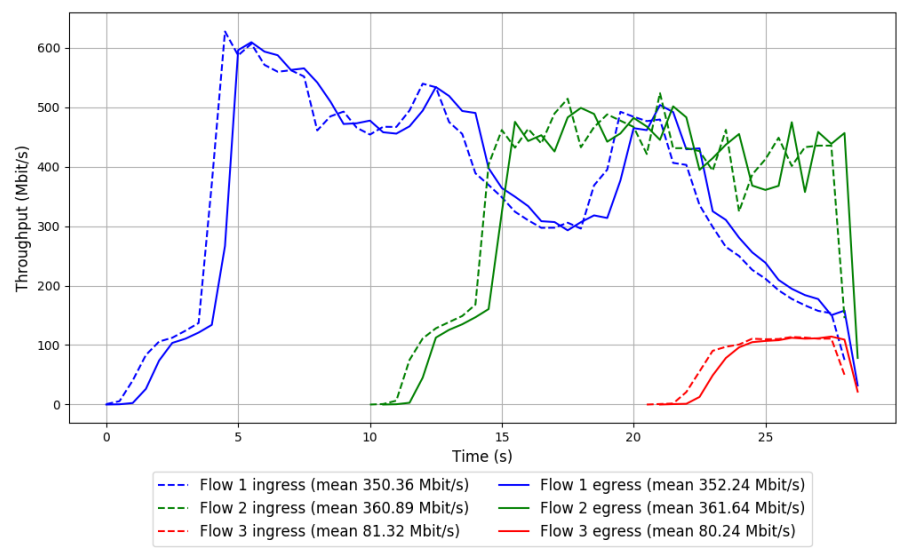


Run 4: Statistics of Indigo-MusesD

Start at: 2019-11-24 17:24:00  
End at: 2019-11-24 17:24:30  
Local clock offset: -0.112 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 19:55:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 598.81 Mbit/s  
95th percentile per-packet one-way delay: 150.430 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 352.24 Mbit/s  
95th percentile per-packet one-way delay: 159.124 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 361.64 Mbit/s  
95th percentile per-packet one-way delay: 142.643 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 80.24 Mbit/s  
95th percentile per-packet one-way delay: 133.585 ms  
Loss rate: 4.88%

Run 4: Report of Indigo-MusesD — Data Link





Run 5: Statistics of Indigo-MusesD

Start at: 2019-11-24 18:07:07

End at: 2019-11-24 18:07:37

Local clock offset: -0.11 ms

Remote clock offset: -0.0 ms

# Below is generated by plot.py at 2019-11-24 19:56:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 655.02 Mbit/s

95th percentile per-packet one-way delay: 150.334 ms

Loss rate: 1.35%

-- Flow 1:

Average throughput: 402.63 Mbit/s

95th percentile per-packet one-way delay: 149.606 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 371.19 Mbit/s

95th percentile per-packet one-way delay: 153.715 ms

Loss rate: 1.54%

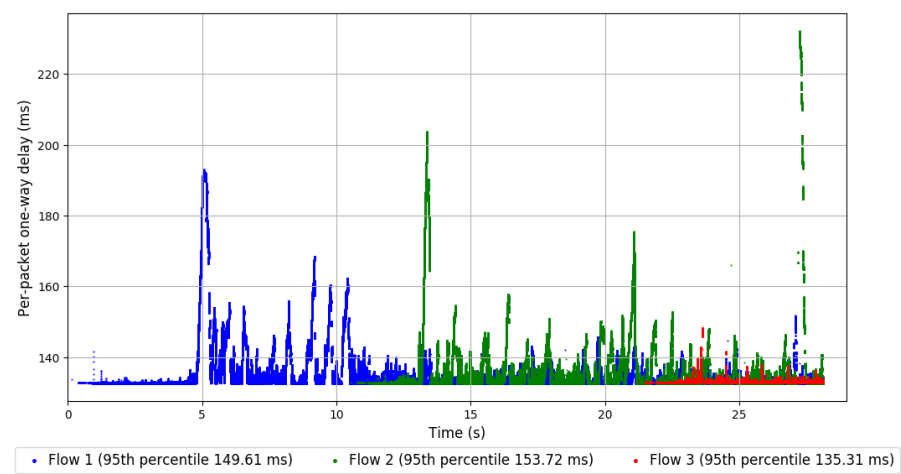
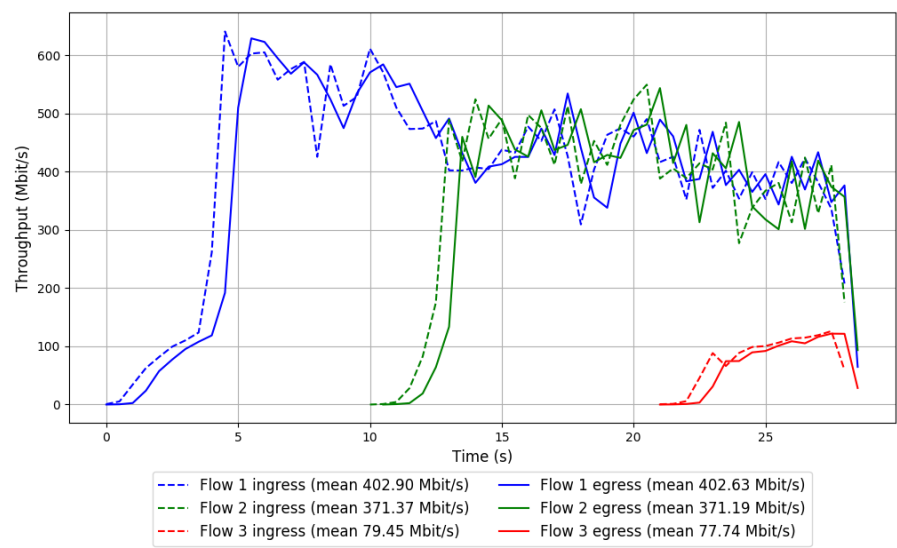
-- Flow 3:

Average throughput: 77.74 Mbit/s

95th percentile per-packet one-way delay: 135.314 ms

Loss rate: 5.80%

Run 5: Report of Indigo-MusesD — Data Link

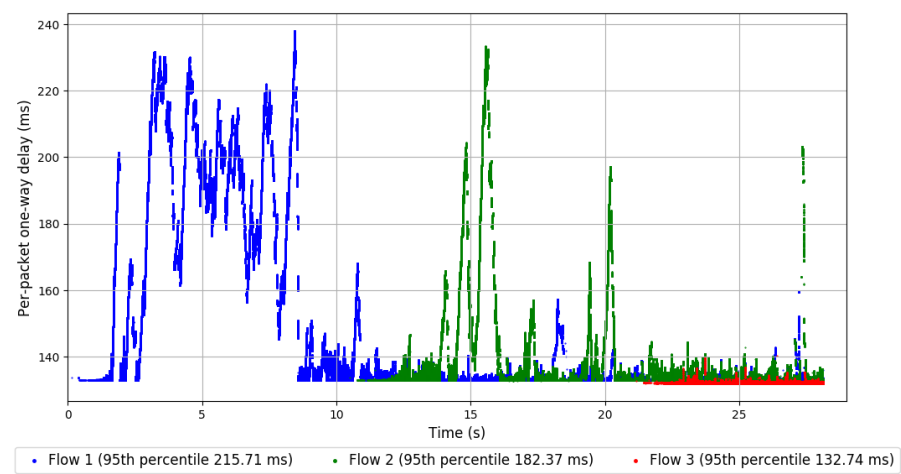
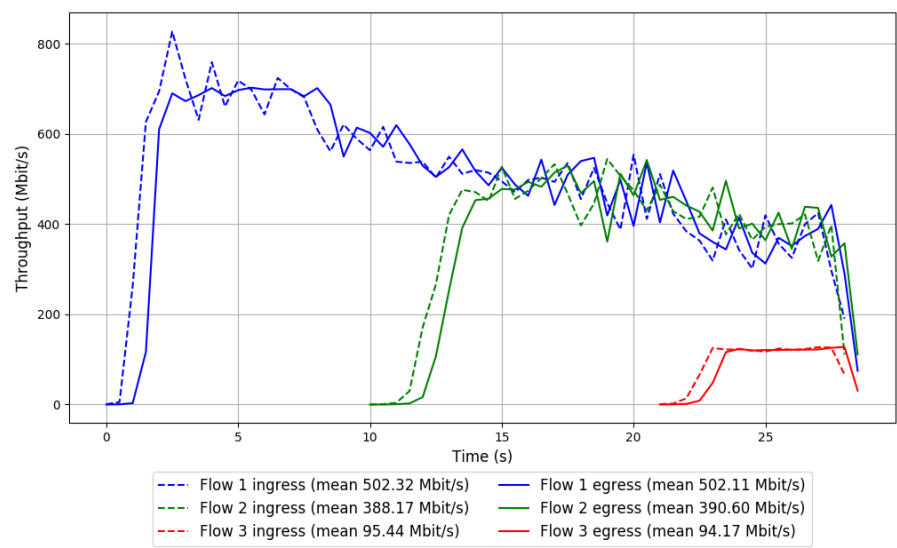


```
Run 1: Statistics of Indigo-MusesT

Start at: 2019-11-24 15:06:23
End at: 2019-11-24 15:06:53
Local clock offset: -0.124 ms
Remote clock offset: 0.079 ms

# Below is generated by plot.py at 2019-11-24 19:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 771.45 Mbit/s
95th percentile per-packet one-way delay: 211.359 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 502.11 Mbit/s
95th percentile per-packet one-way delay: 215.714 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 390.60 Mbit/s
95th percentile per-packet one-way delay: 182.366 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 94.17 Mbit/s
95th percentile per-packet one-way delay: 132.740 ms
Loss rate: 5.00%
```

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-11-24 15:49:32

End at: 2019-11-24 15:50:02

Local clock offset: -0.118 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-24 20:00:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 703.61 Mbit/s

95th percentile per-packet one-way delay: 226.875 ms

Loss rate: 1.57%

-- Flow 1:

Average throughput: 448.15 Mbit/s

95th percentile per-packet one-way delay: 230.433 ms

Loss rate: 1.22%

-- Flow 2:

Average throughput: 367.29 Mbit/s

95th percentile per-packet one-way delay: 217.238 ms

Loss rate: 1.89%

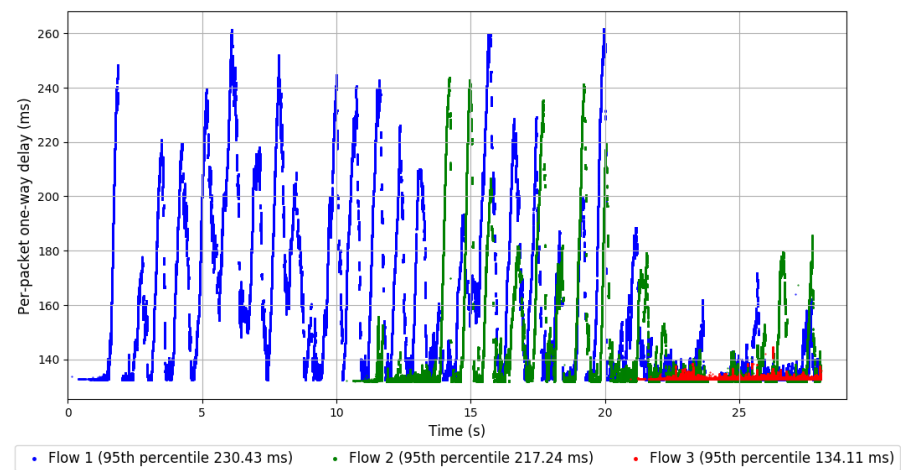
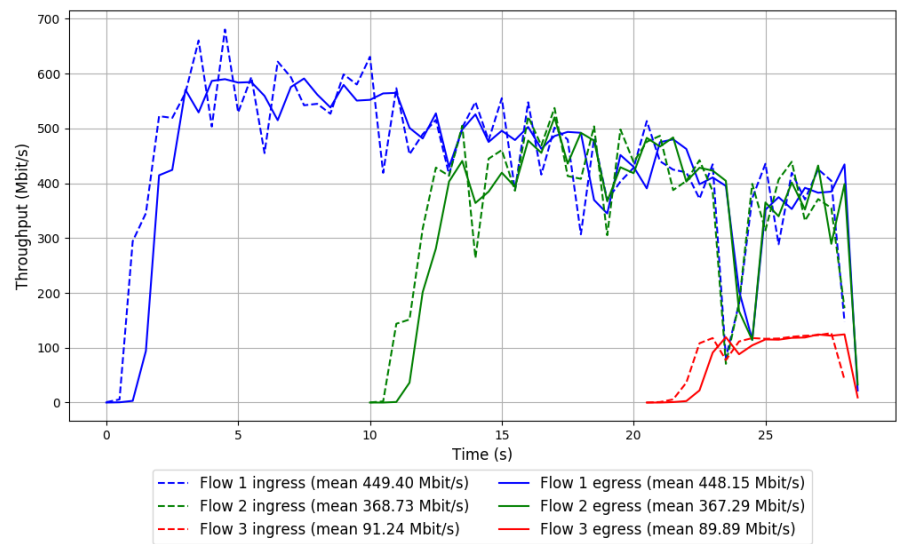
-- Flow 3:

Average throughput: 89.89 Mbit/s

95th percentile per-packet one-way delay: 134.111 ms

Loss rate: 5.01%

Run 2: Report of Indigo-MusesT — Data Link

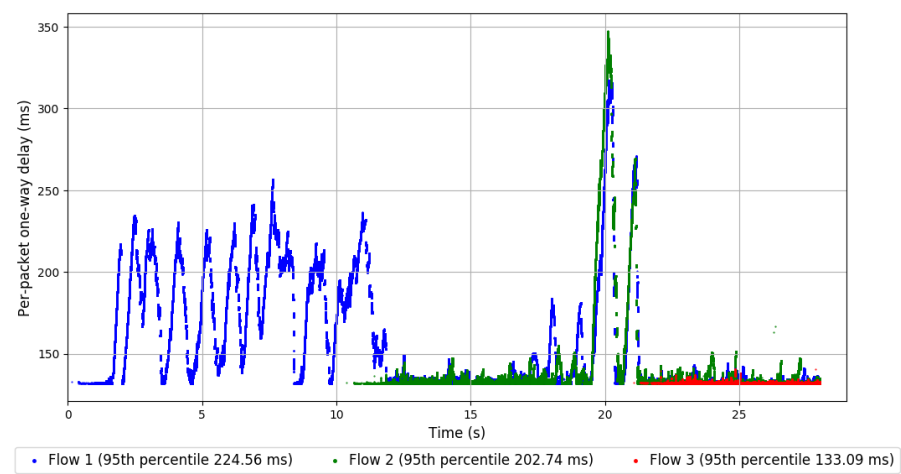
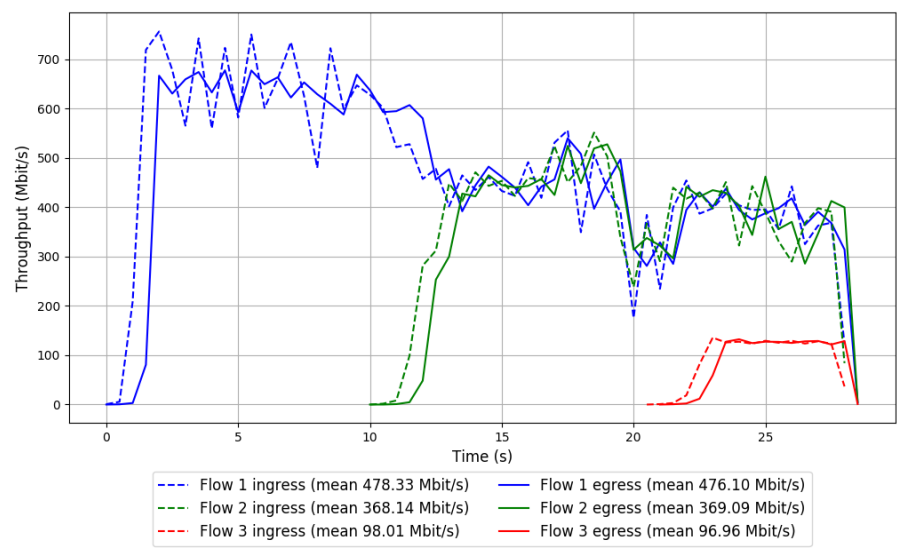


Run 3: Statistics of Indigo-MusesT

Start at: 2019-11-24 16:32:50  
End at: 2019-11-24 16:33:20  
Local clock offset: -0.101 ms  
Remote clock offset: -0.062 ms

# Below is generated by plot.py at 2019-11-24 20:03:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 733.63 Mbit/s  
95th percentile per-packet one-way delay: 222.849 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 476.10 Mbit/s  
95th percentile per-packet one-way delay: 224.560 ms  
Loss rate: 1.41%  
-- Flow 2:  
Average throughput: 369.09 Mbit/s  
95th percentile per-packet one-way delay: 202.741 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 96.96 Mbit/s  
95th percentile per-packet one-way delay: 133.091 ms  
Loss rate: 4.71%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-11-24 17:16:12

End at: 2019-11-24 17:16:42

Local clock offset: -0.139 ms

Remote clock offset: 0.291 ms

# Below is generated by plot.py at 2019-11-24 20:08:15

# Datalink statistics

-- Total of 3 flows:

Average throughput: 759.19 Mbit/s

95th percentile per-packet one-way delay: 216.254 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 467.79 Mbit/s

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

Loss rate: 0.73%

-- Flow 2:

Average throughput: 370.42 Mbit/s

95th percentile per-packet one-way delay: 164.687 ms

Loss rate: 1.31%

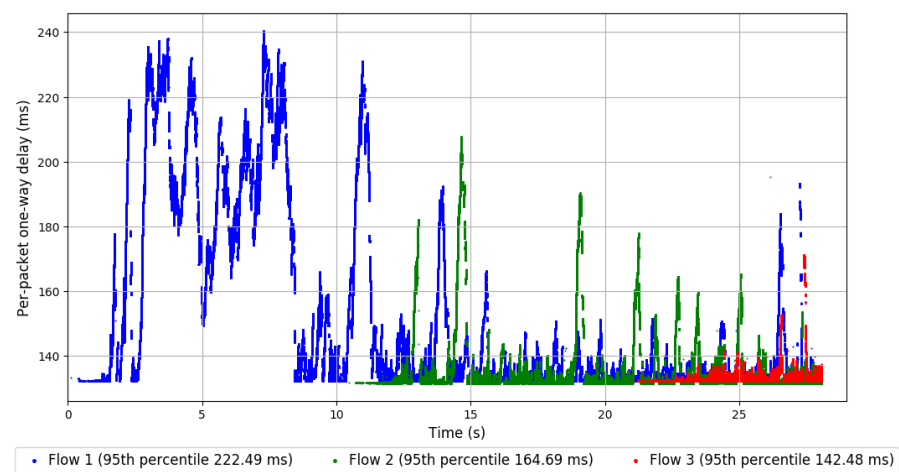
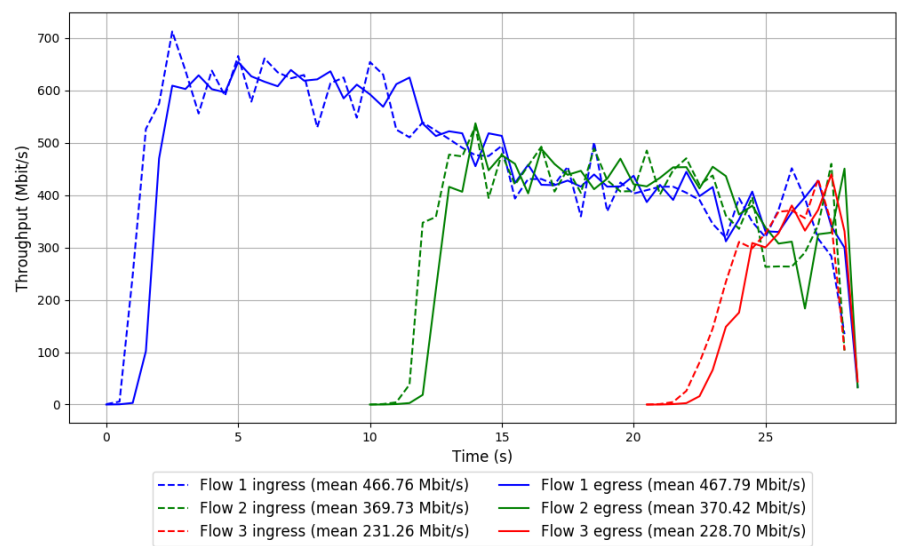
-- Flow 3:

Average throughput: 228.70 Mbit/s

95th percentile per-packet one-way delay: 142.476 ms

Loss rate: 4.69%

Run 4: Report of Indigo-MusesT — Data Link

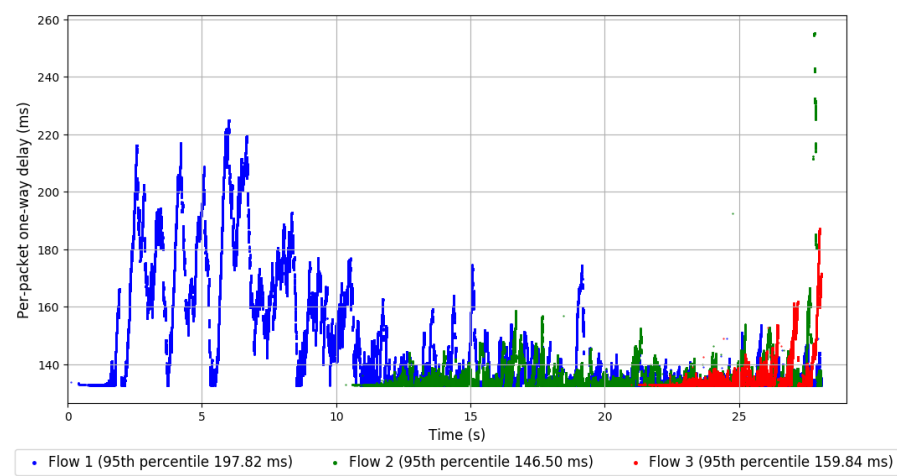
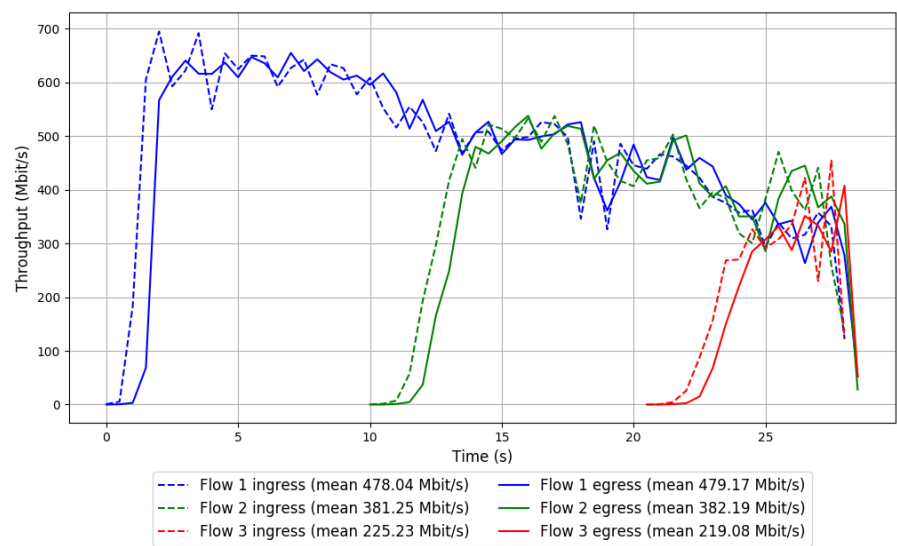


Run 5: Statistics of Indigo-MusesT

Start at: 2019-11-24 17:59:00  
End at: 2019-11-24 17:59:30  
Local clock offset: -0.186 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 20:08:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 776.98 Mbit/s  
95th percentile per-packet one-way delay: 188.713 ms  
Loss rate: 1.31%  
-- Flow 1:  
Average throughput: 479.17 Mbit/s  
95th percentile per-packet one-way delay: 197.819 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 382.19 Mbit/s  
95th percentile per-packet one-way delay: 146.497 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 219.08 Mbit/s  
95th percentile per-packet one-way delay: 159.840 ms  
Loss rate: 6.28%

Run 5: Report of Indigo-MusesT — Data Link

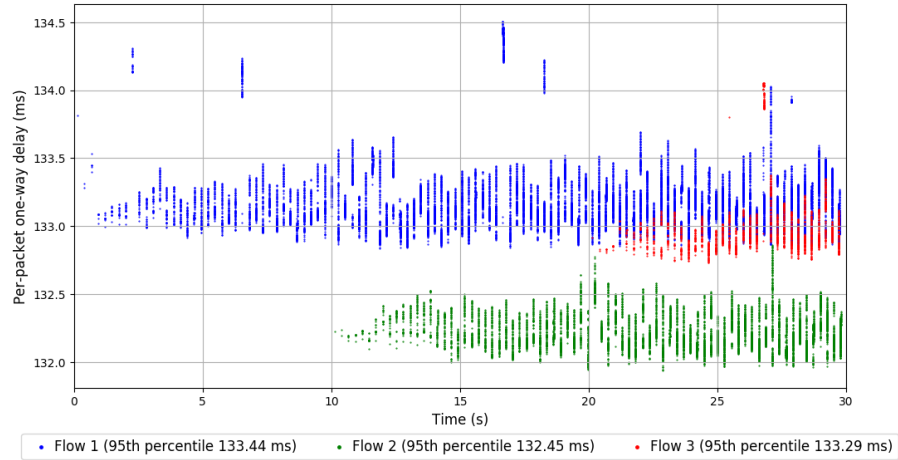
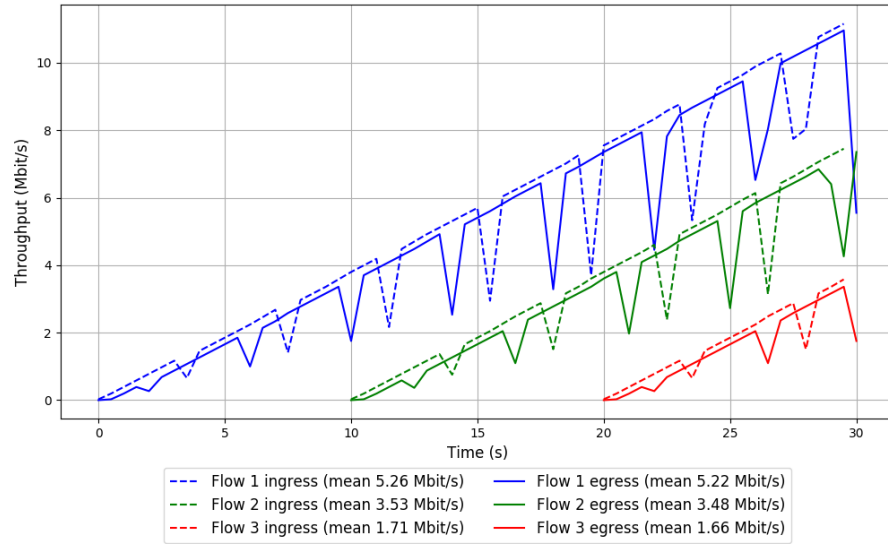


```
Run 1: Statistics of LEDBAT

Start at: 2019-11-24 15:05:03
End at: 2019-11-24 15:05:33
Local clock offset: -0.096 ms
Remote clock offset: 0.065 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.05 Mbit/s
95th percentile per-packet one-way delay: 133.401 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 133.440 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 132.453 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 133.294 ms
Loss rate: 5.42%
```

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-11-24 15:48:12

End at: 2019-11-24 15:48:42

Local clock offset: -0.064 ms

Remote clock offset: 0.011 ms

# Below is generated by plot.py at 2019-11-24 20:08:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 8.01 Mbit/s

95th percentile per-packet one-way delay: 134.348 ms

Loss rate: 2.30%

-- Flow 1:

Average throughput: 5.22 Mbit/s

95th percentile per-packet one-way delay: 134.588 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 3.42 Mbit/s

95th percentile per-packet one-way delay: 134.044 ms

Loss rate: 2.71%

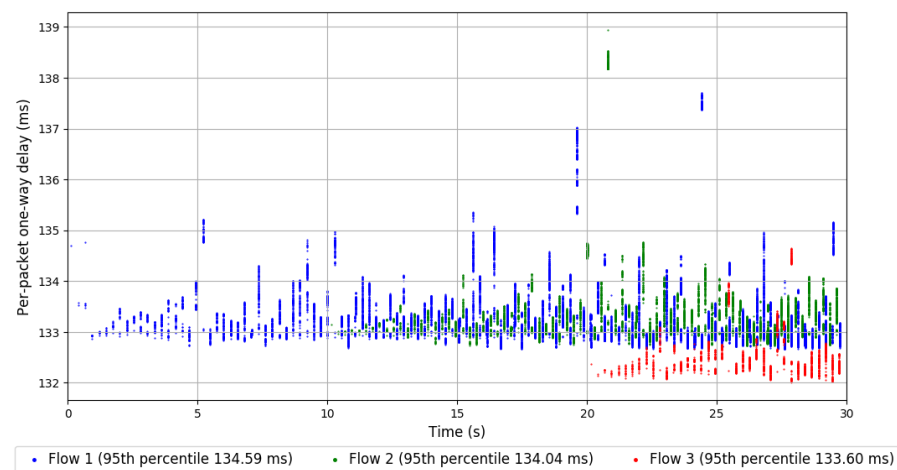
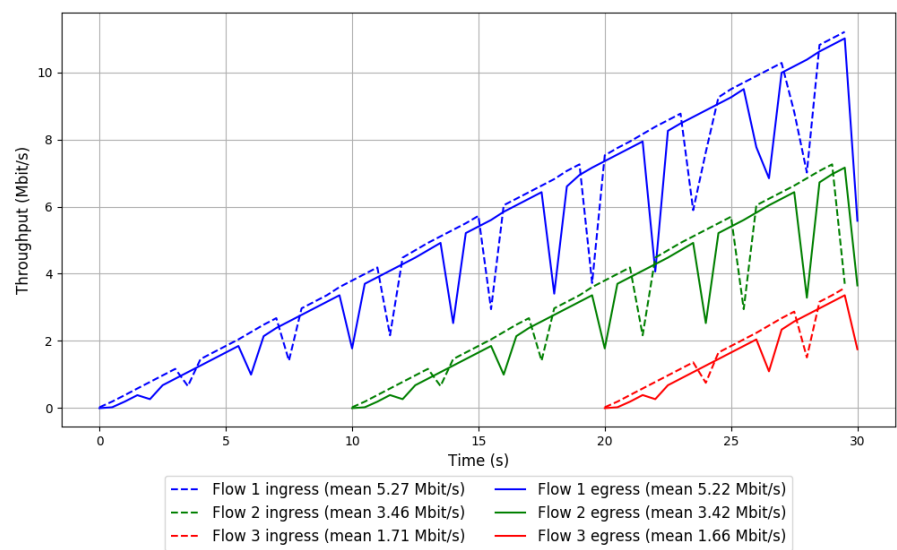
-- Flow 3:

Average throughput: 1.66 Mbit/s

95th percentile per-packet one-way delay: 133.598 ms

Loss rate: 5.43%

Run 2: Report of LEDBAT — Data Link



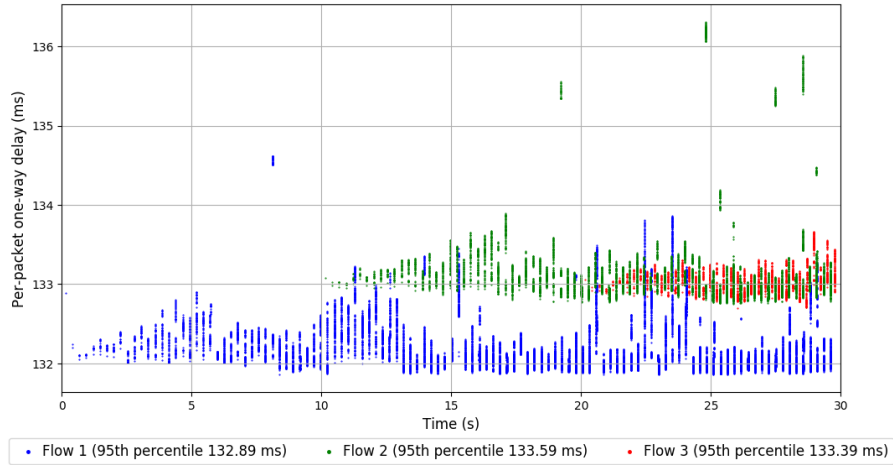
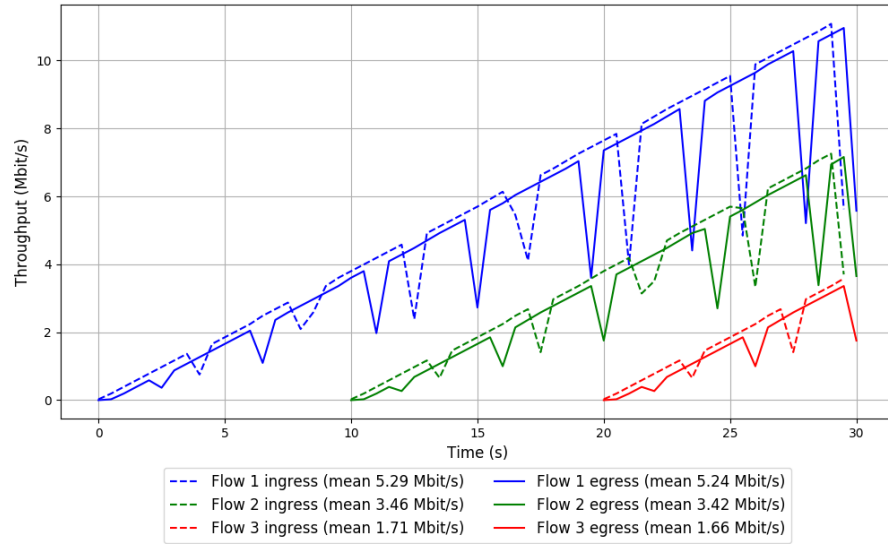


Run 3: Statistics of LEDBAT

Start at: 2019-11-24 16:31:30  
End at: 2019-11-24 16:32:00  
Local clock offset: -0.122 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 20:08:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 133.288 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 5.24 Mbit/s  
95th percentile per-packet one-way delay: 132.890 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 133.586 ms  
Loss rate: 2.71%  
-- Flow 3:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 133.393 ms  
Loss rate: 5.42%

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

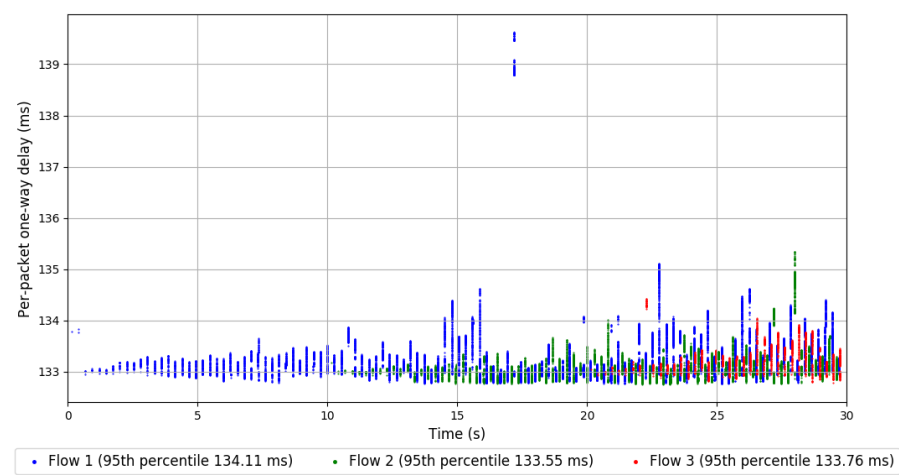
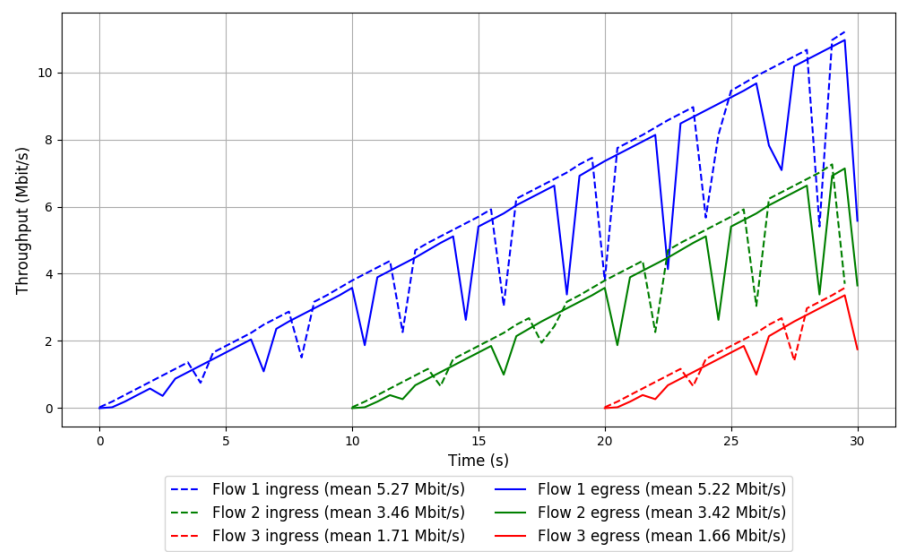


Run 4: Statistics of LEDBAT

Start at: 2019-11-24 17:14:52  
End at: 2019-11-24 17:15:22  
Local clock offset: -0.046 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-24 20:08:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.00 Mbit/s  
95th percentile per-packet one-way delay: 134.022 ms  
Loss rate: 2.30%  
-- Flow 1:  
Average throughput: 5.22 Mbit/s  
95th percentile per-packet one-way delay: 134.106 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 3.42 Mbit/s  
95th percentile per-packet one-way delay: 133.553 ms  
Loss rate: 2.71%  
-- Flow 3:  
Average throughput: 1.66 Mbit/s  
95th percentile per-packet one-way delay: 133.762 ms  
Loss rate: 5.42%

Run 4: Report of LEDBAT — Data Link

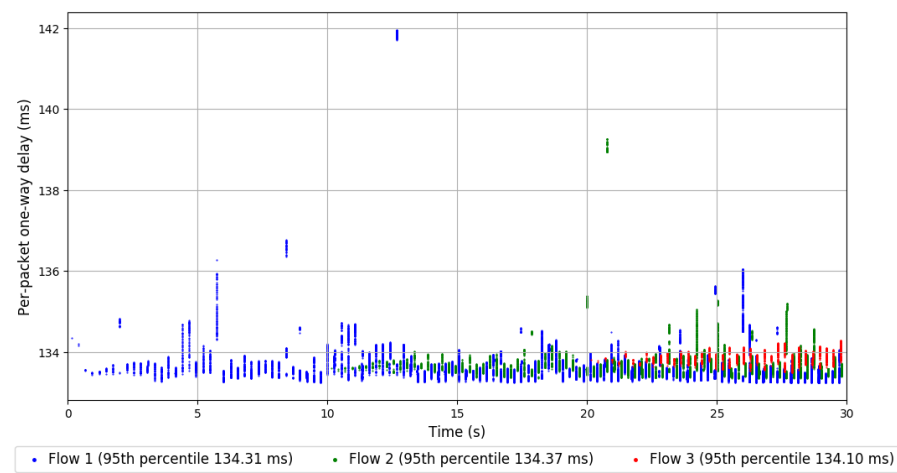
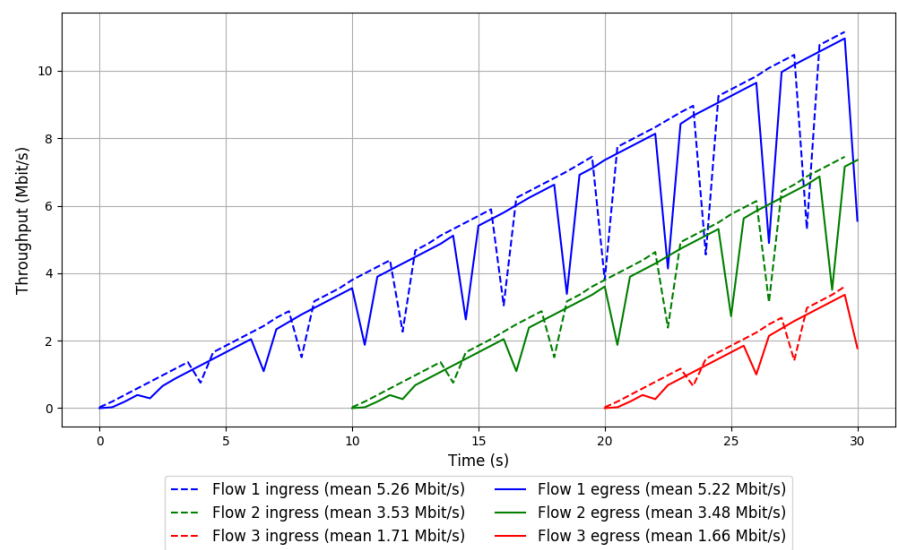


Run 5: Statistics of LEDBAT

Start at: 2019-11-24 17:57:39  
End at: 2019-11-24 17:58:09  
Local clock offset: 0.173 ms  
Remote clock offset: -0.372 ms

```
# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.04 Mbit/s
95th percentile per-packet one-way delay: 134.278 ms
Loss rate: 2.29%
-- Flow 1:
Average throughput: 5.22 Mbit/s
95th percentile per-packet one-way delay: 134.308 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 3.48 Mbit/s
95th percentile per-packet one-way delay: 134.371 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 134.098 ms
Loss rate: 5.42%
```

Run 5: Report of LEDBAT — Data Link

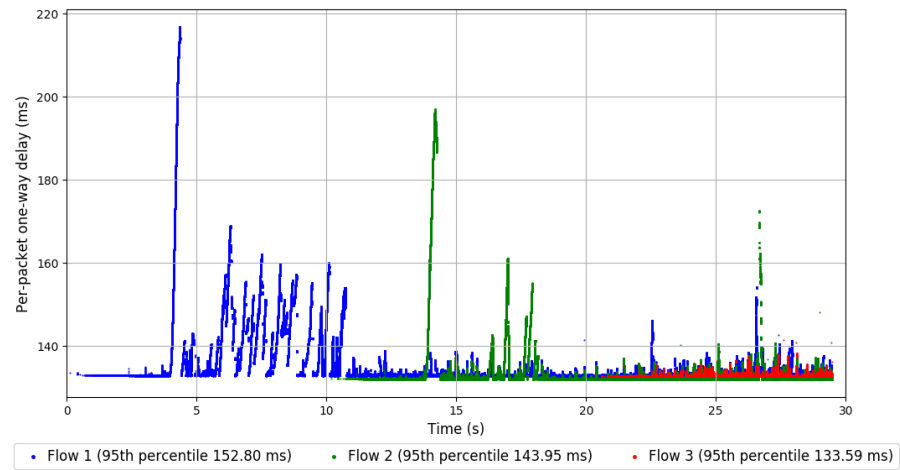
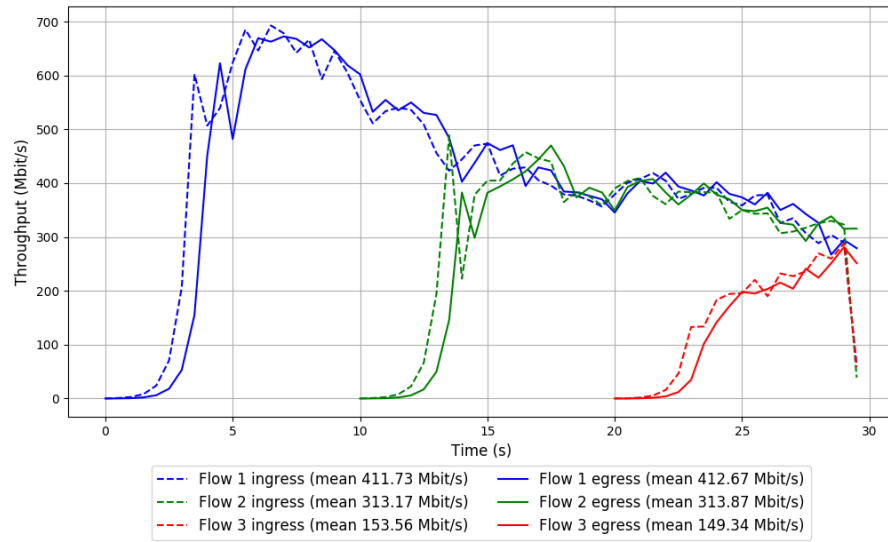


```
Run 1: Statistics of Muses\_DecisionTree

Start at: 2019-11-24 15:22:34
End at: 2019-11-24 15:23:04
Local clock offset: -0.112 ms
Remote clock offset: 0.083 ms

# Below is generated by plot.py at 2019-11-24 20:08:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 665.57 Mbit/s
95th percentile per-packet one-way delay: 151.087 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 412.67 Mbit/s
95th percentile per-packet one-way delay: 152.804 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 313.87 Mbit/s
95th percentile per-packet one-way delay: 143.946 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 149.34 Mbit/s
95th percentile per-packet one-way delay: 133.587 ms
Loss rate: 5.49%
```

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



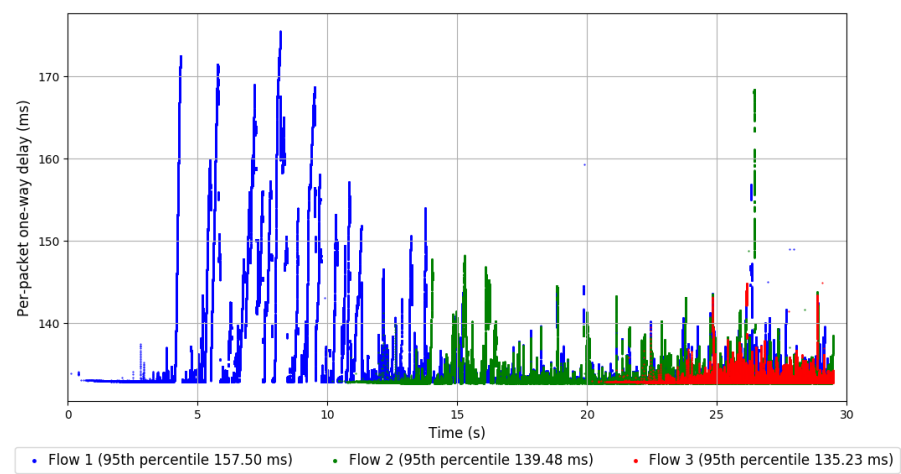
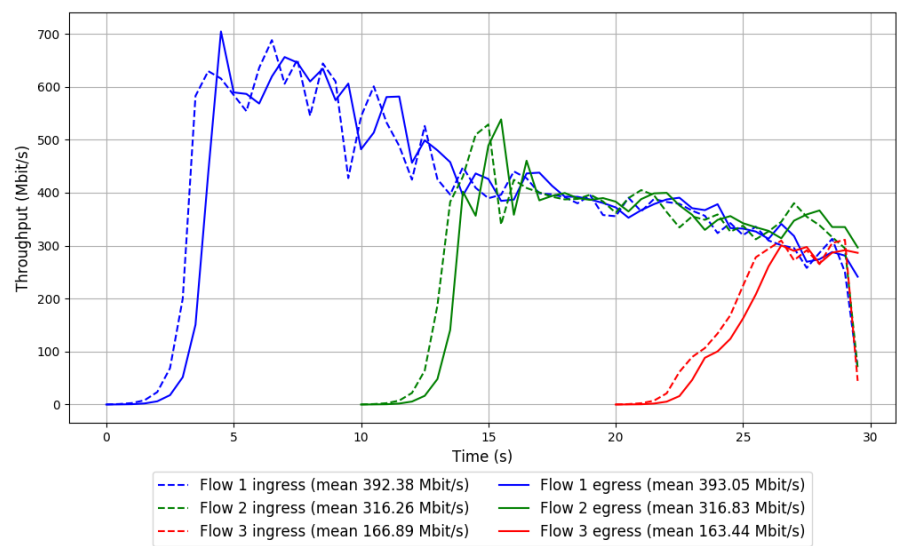


Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 16:05:51  
End at: 2019-11-24 16:06:21  
Local clock offset: -0.052 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 20:08:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 653.08 Mbit/s  
95th percentile per-packet one-way delay: 153.010 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 393.05 Mbit/s  
95th percentile per-packet one-way delay: 157.499 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 316.83 Mbit/s  
95th percentile per-packet one-way delay: 139.484 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 163.44 Mbit/s  
95th percentile per-packet one-way delay: 135.232 ms  
Loss rate: 4.84%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 16:49:20

End at: 2019-11-24 16:49:50

Local clock offset: -0.024 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 20:09:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 677.94 Mbit/s

95th percentile per-packet one-way delay: 169.232 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 414.96 Mbit/s

95th percentile per-packet one-way delay: 170.435 ms

Loss rate: 0.87%

-- Flow 2:

Average throughput: 320.16 Mbit/s

95th percentile per-packet one-way delay: 171.013 ms

Loss rate: 1.06%

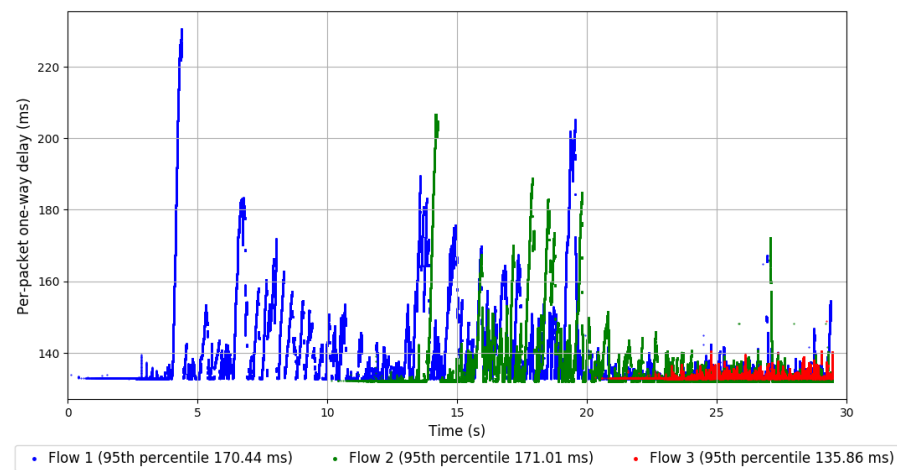
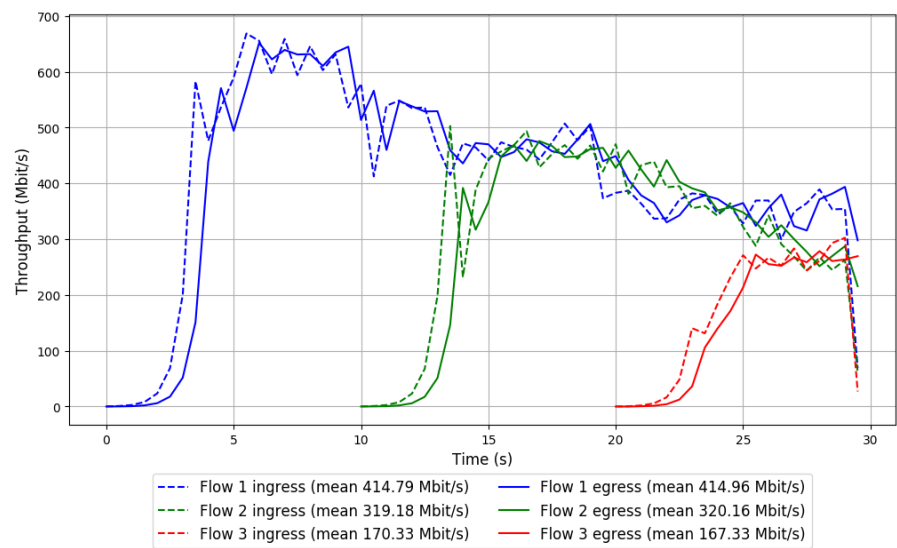
-- Flow 3:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 135.857 ms

Loss rate: 4.54%

Run 3: Report of Muses\_DecisionTree — Data Link

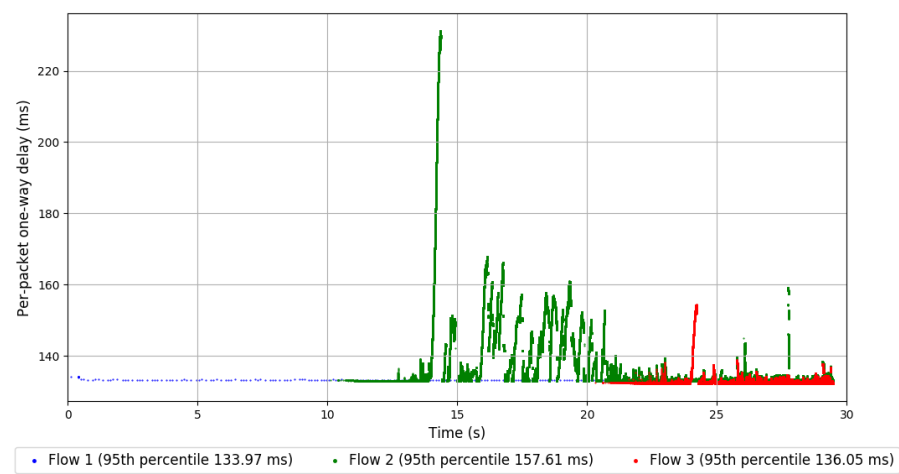
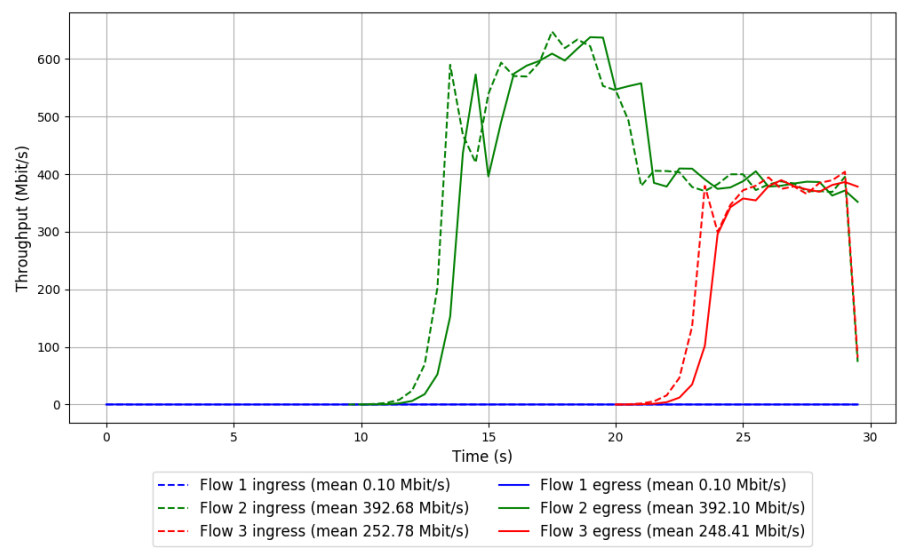


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 17:32:33  
End at: 2019-11-24 17:33:03  
Local clock offset: 0.246 ms  
Remote clock offset: -0.036 ms

# Below is generated by plot.py at 2019-11-24 20:09:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.97 Mbit/s  
95th percentile per-packet one-way delay: 156.330 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 133.968 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 392.10 Mbit/s  
95th percentile per-packet one-way delay: 157.606 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 248.41 Mbit/s  
95th percentile per-packet one-way delay: 136.054 ms  
Loss rate: 4.50%

Run 4: Report of Muses\_DecisionTree — Data Link

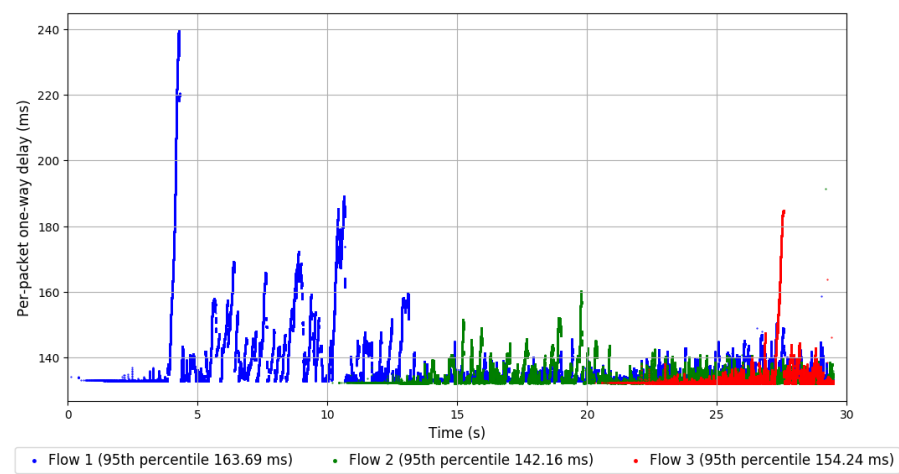
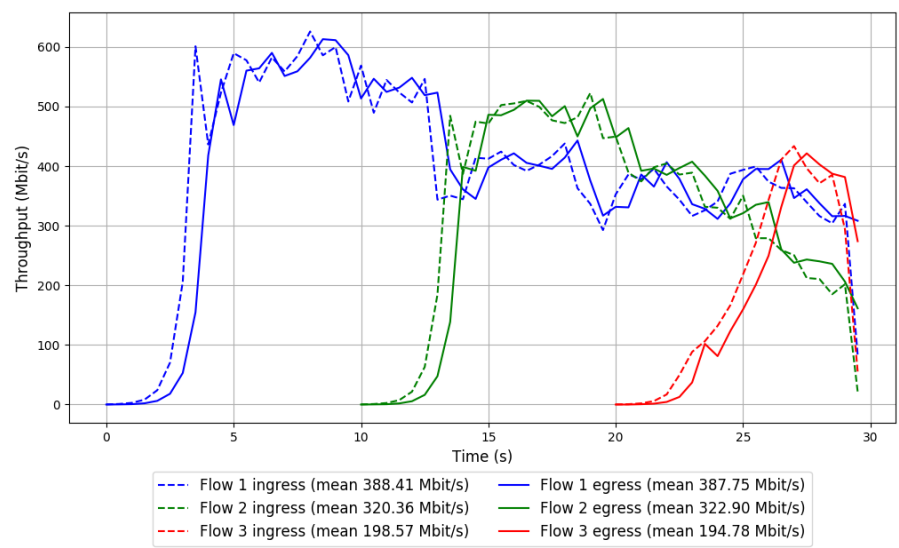


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-11-24 18:15:24  
End at: 2019-11-24 18:15:54  
Local clock offset: 0.258 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-11-24 20:13:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 660.83 Mbit/s  
95th percentile per-packet one-way delay: 156.619 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 387.75 Mbit/s  
95th percentile per-packet one-way delay: 163.686 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 322.90 Mbit/s  
95th percentile per-packet one-way delay: 142.158 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 194.78 Mbit/s  
95th percentile per-packet one-way delay: 154.244 ms  
Loss rate: 4.68%

Run 5: Report of Muses\_DecisionTree — Data Link



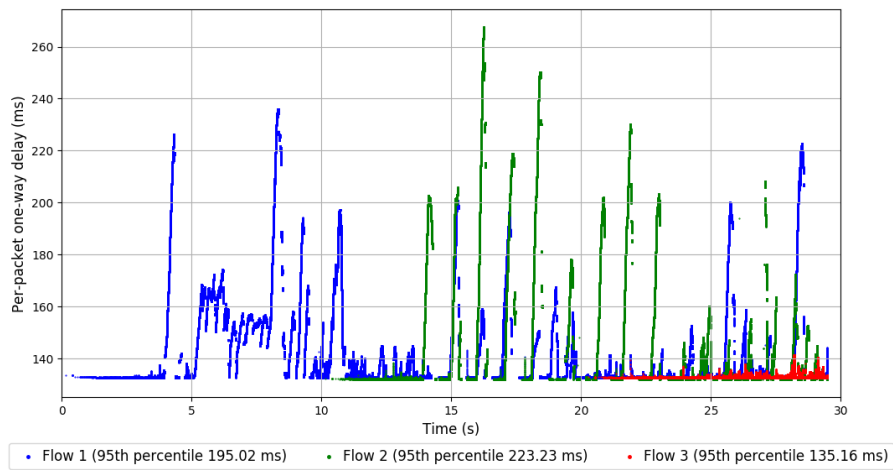
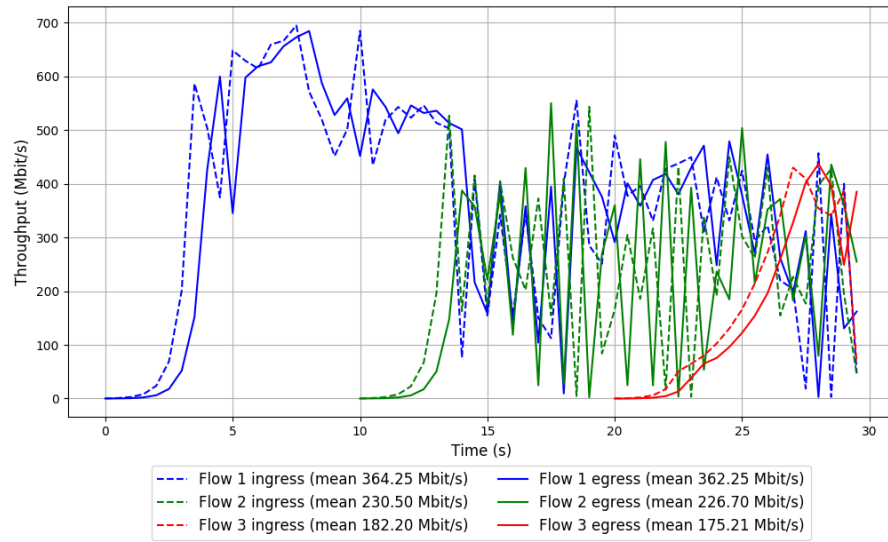


```
Run 1: Statistics of Muses\_DecisionTreeH0

Start at: 2019-11-24 15:31:58
End at: 2019-11-24 15:32:28
Local clock offset: -0.067 ms
Remote clock offset: 0.044 ms

# Below is generated by plot.py at 2019-11-24 20:15:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 566.46 Mbit/s
95th percentile per-packet one-way delay: 201.828 ms
Loss rate: 2.32%
-- Flow 1:
Average throughput: 362.25 Mbit/s
95th percentile per-packet one-way delay: 195.023 ms
Loss rate: 1.44%
-- Flow 2:
Average throughput: 226.70 Mbit/s
95th percentile per-packet one-way delay: 223.231 ms
Loss rate: 2.99%
-- Flow 3:
Average throughput: 175.21 Mbit/s
95th percentile per-packet one-way delay: 135.158 ms
Loss rate: 6.10%
```

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

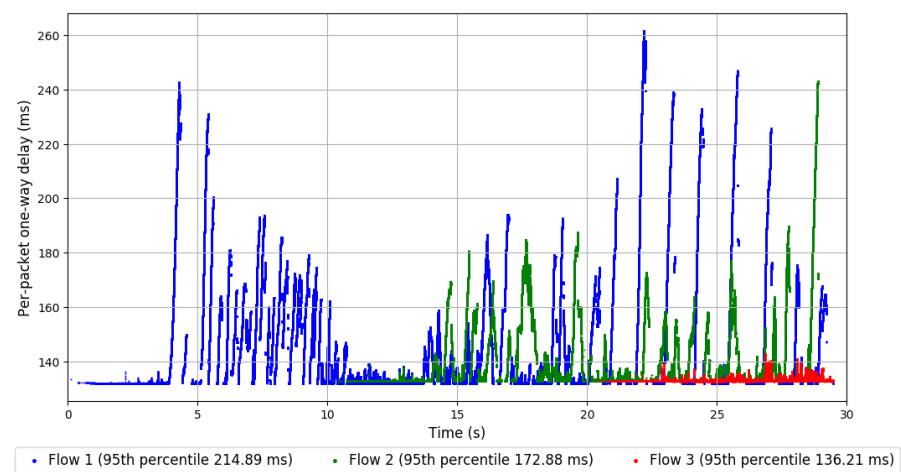
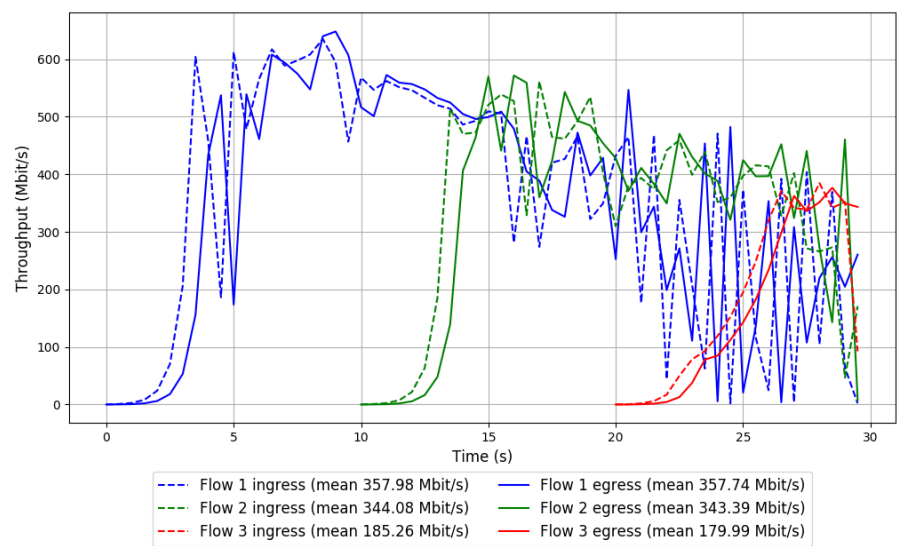


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 16:15:24  
End at: 2019-11-24 16:15:54  
Local clock offset: -0.16 ms  
Remote clock offset: -0.022 ms

# Below is generated by plot.py at 2019-11-24 20:18:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 640.00 Mbit/s  
95th percentile per-packet one-way delay: 193.855 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 357.74 Mbit/s  
95th percentile per-packet one-way delay: 214.891 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 343.39 Mbit/s  
95th percentile per-packet one-way delay: 172.885 ms  
Loss rate: 1.56%  
-- Flow 3:  
Average throughput: 179.99 Mbit/s  
95th percentile per-packet one-way delay: 136.214 ms  
Loss rate: 5.57%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

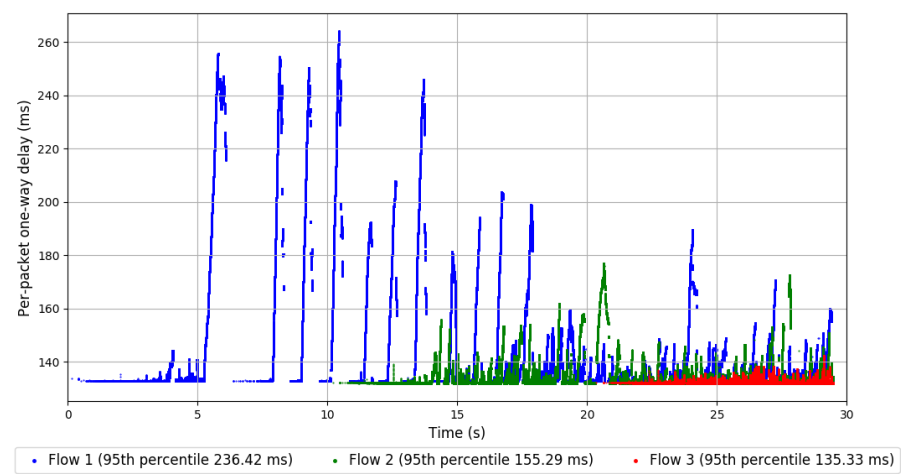
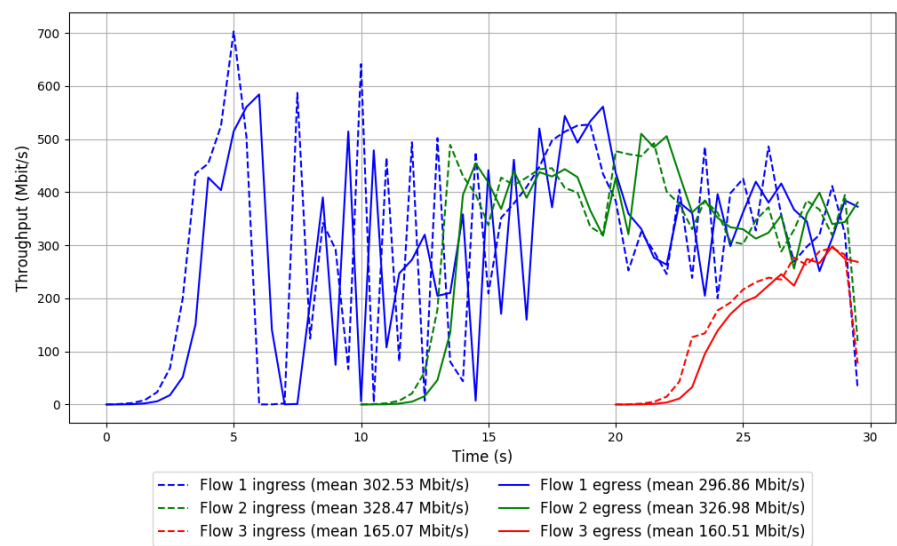


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 16:58:42  
End at: 2019-11-24 16:59:12  
Local clock offset: -0.093 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 20:19:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 561.42 Mbit/s  
95th percentile per-packet one-way delay: 203.358 ms  
Loss rate: 2.60%  
-- Flow 1:  
Average throughput: 296.86 Mbit/s  
95th percentile per-packet one-way delay: 236.423 ms  
Loss rate: 2.63%  
-- Flow 2:  
Average throughput: 326.98 Mbit/s  
95th percentile per-packet one-way delay: 155.291 ms  
Loss rate: 1.82%  
-- Flow 3:  
Average throughput: 160.51 Mbit/s  
95th percentile per-packet one-way delay: 135.333 ms  
Loss rate: 5.66%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link



Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 17:41:36

End at: 2019-11-24 17:42:06

Local clock offset: -0.111 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 20:19:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 238.69 Mbit/s

95th percentile per-packet one-way delay: 229.668 ms

Loss rate: 4.45%

-- Flow 1:

Average throughput: 0.12 Mbit/s

95th percentile per-packet one-way delay: 132.965 ms

Loss rate: 0.98%

-- Flow 2:

Average throughput: 232.66 Mbit/s

95th percentile per-packet one-way delay: 235.899 ms

Loss rate: 4.33%

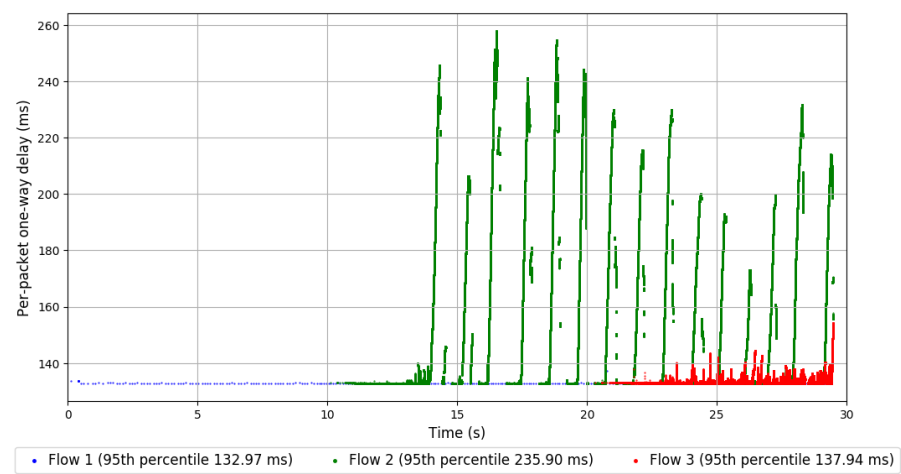
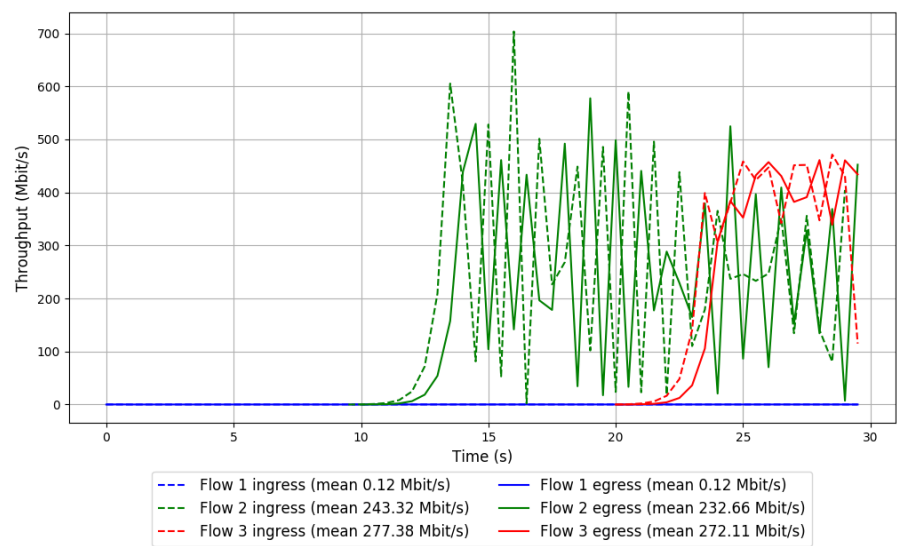
-- Flow 3:

Average throughput: 272.11 Mbit/s

95th percentile per-packet one-way delay: 137.936 ms

Loss rate: 4.68%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



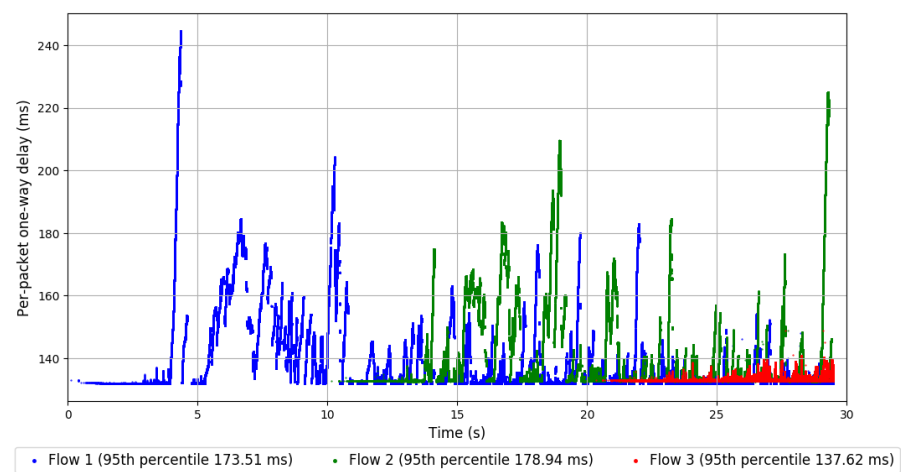
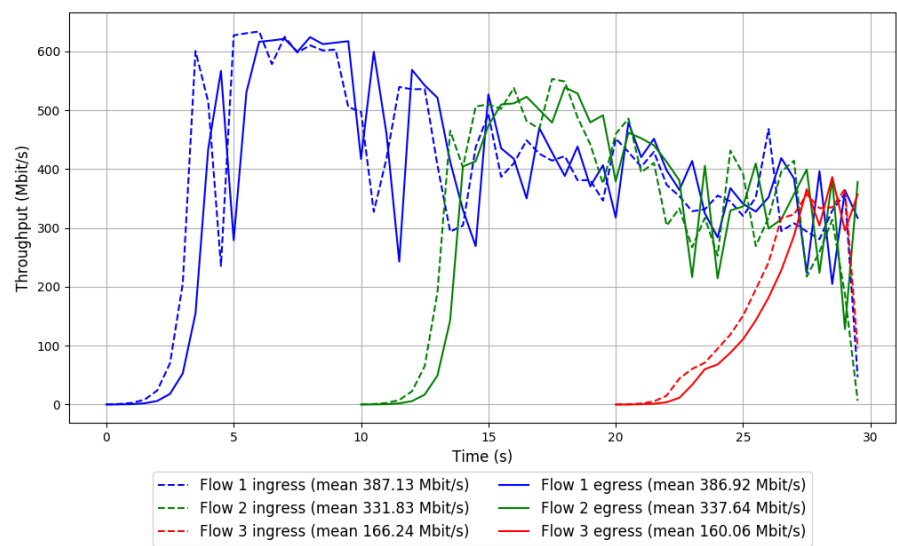


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-11-24 18:24:47  
End at: 2019-11-24 18:25:17  
Local clock offset: -0.063 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-11-24 20:21:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 658.10 Mbit/s  
95th percentile per-packet one-way delay: 173.414 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 386.92 Mbit/s  
95th percentile per-packet one-way delay: 173.509 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 337.64 Mbit/s  
95th percentile per-packet one-way delay: 178.942 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 160.06 Mbit/s  
95th percentile per-packet one-way delay: 137.624 ms  
Loss rate: 6.45%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 15:24:32

End at: 2019-11-24 15:25:02

Local clock offset: -0.15 ms

Remote clock offset: 0.053 ms

# Below is generated by plot.py at 2019-11-24 20:21:37

# Datalink statistics

-- Total of 3 flows:

Average throughput: 664.61 Mbit/s

95th percentile per-packet one-way delay: 161.528 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 395.22 Mbit/s

95th percentile per-packet one-way delay: 163.885 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 323.95 Mbit/s

95th percentile per-packet one-way delay: 148.373 ms

Loss rate: 1.48%

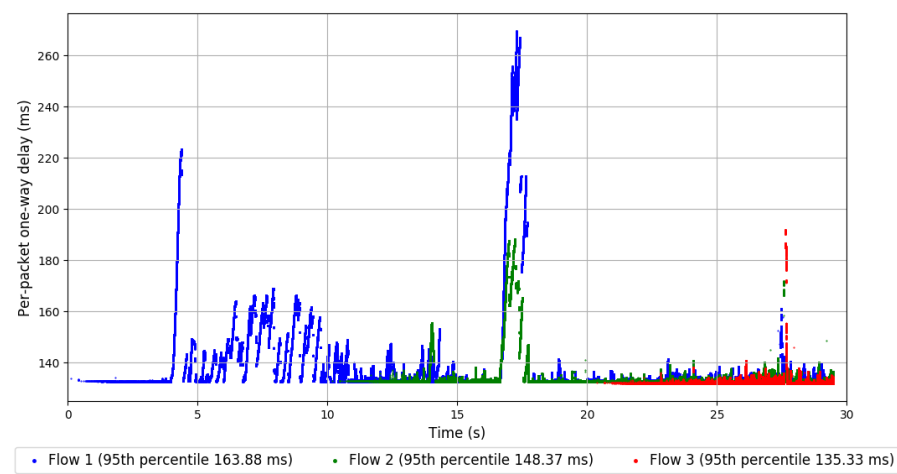
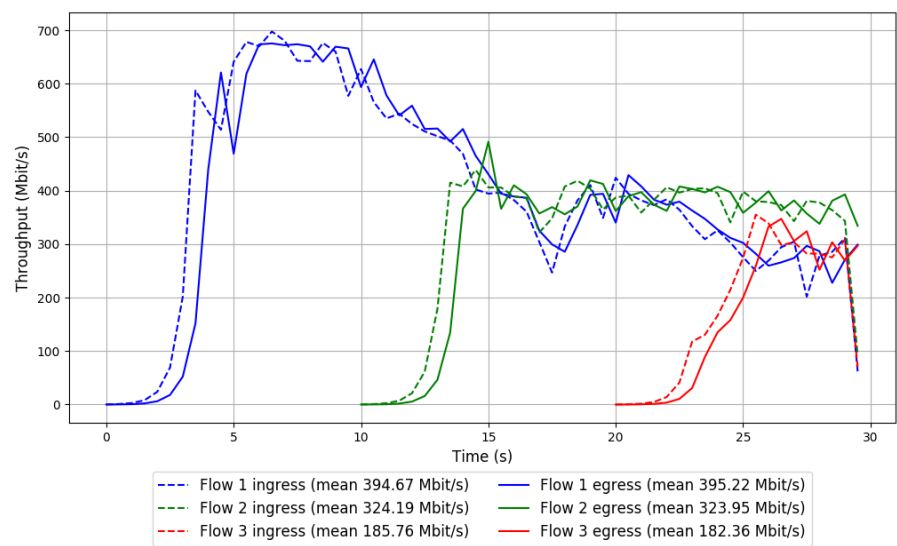
-- Flow 3:

Average throughput: 182.36 Mbit/s

95th percentile per-packet one-way delay: 135.327 ms

Loss rate: 4.61%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

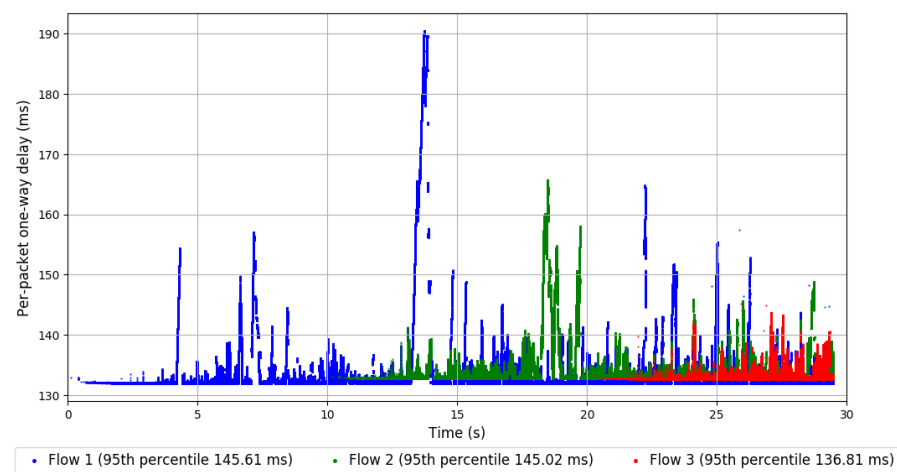
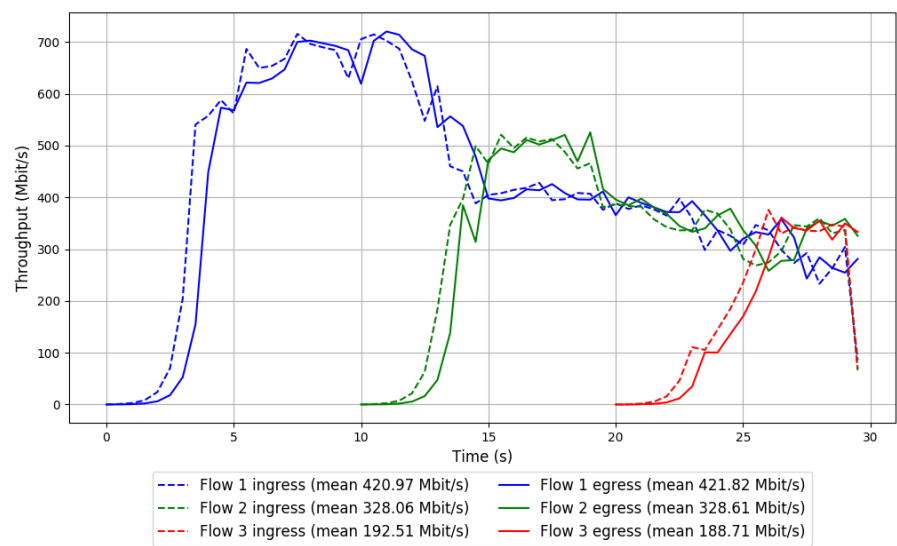


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 16:07:49  
End at: 2019-11-24 16:08:19  
Local clock offset: -0.104 ms  
Remote clock offset: -0.051 ms

# Below is generated by plot.py at 2019-11-24 20:23:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 696.86 Mbit/s  
95th percentile per-packet one-way delay: 144.145 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 421.82 Mbit/s  
95th percentile per-packet one-way delay: 145.611 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 328.61 Mbit/s  
95th percentile per-packet one-way delay: 145.020 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 188.71 Mbit/s  
95th percentile per-packet one-way delay: 136.814 ms  
Loss rate: 4.75%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

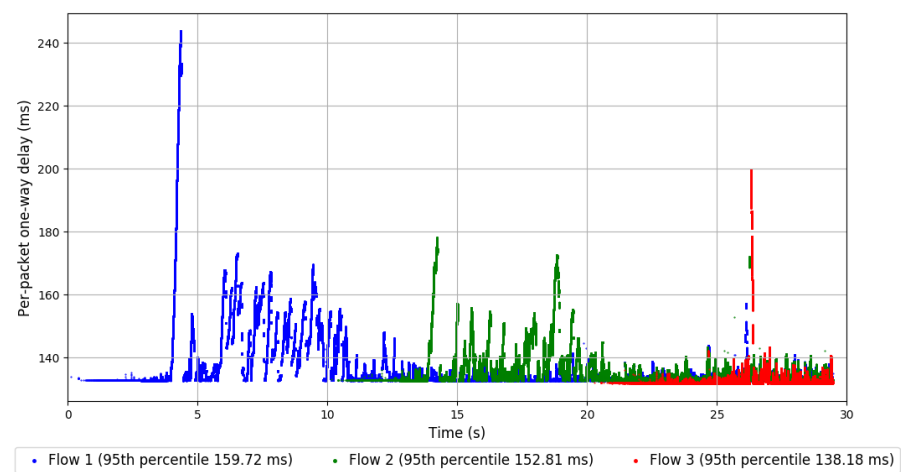
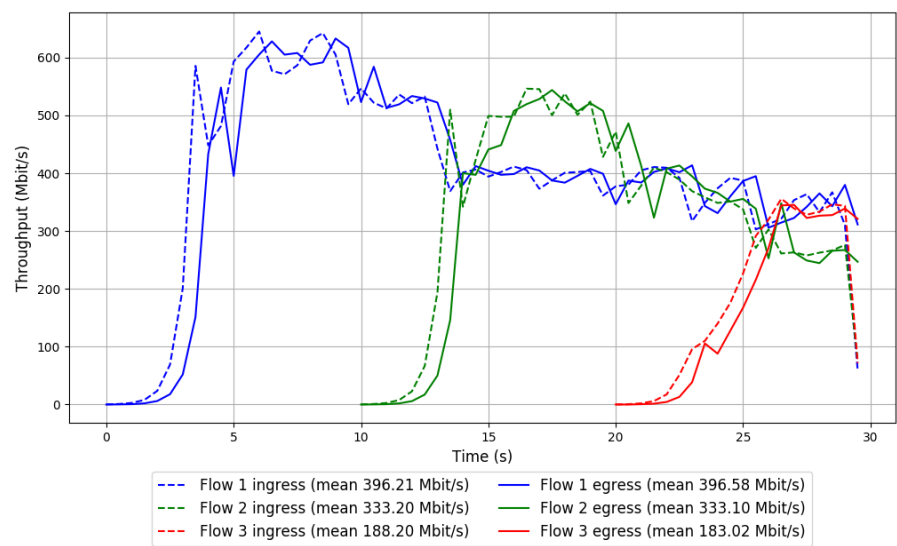


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 16:51:20  
End at: 2019-11-24 16:51:50  
Local clock offset: -0.076 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-24 20:26:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 673.17 Mbit/s  
95th percentile per-packet one-way delay: 157.474 ms  
Loss rate: 1.41%  
-- Flow 1:  
Average throughput: 396.58 Mbit/s  
95th percentile per-packet one-way delay: 159.717 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 333.10 Mbit/s  
95th percentile per-packet one-way delay: 152.815 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 183.02 Mbit/s  
95th percentile per-packet one-way delay: 138.176 ms  
Loss rate: 5.49%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



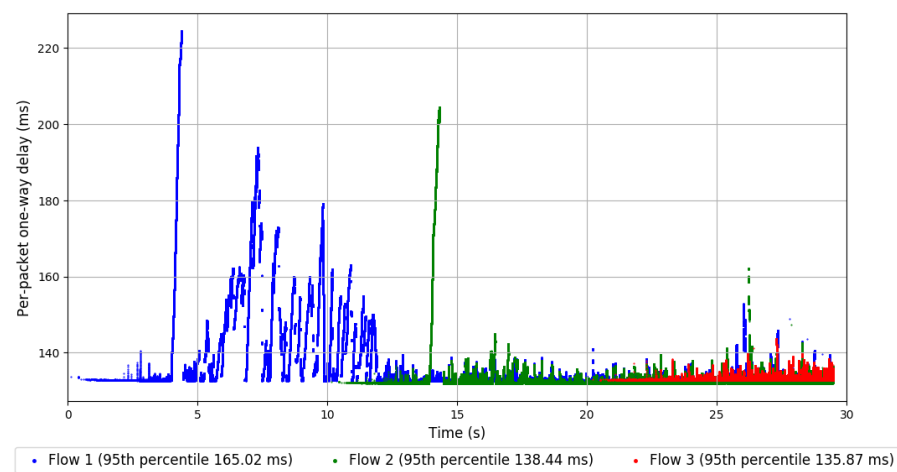
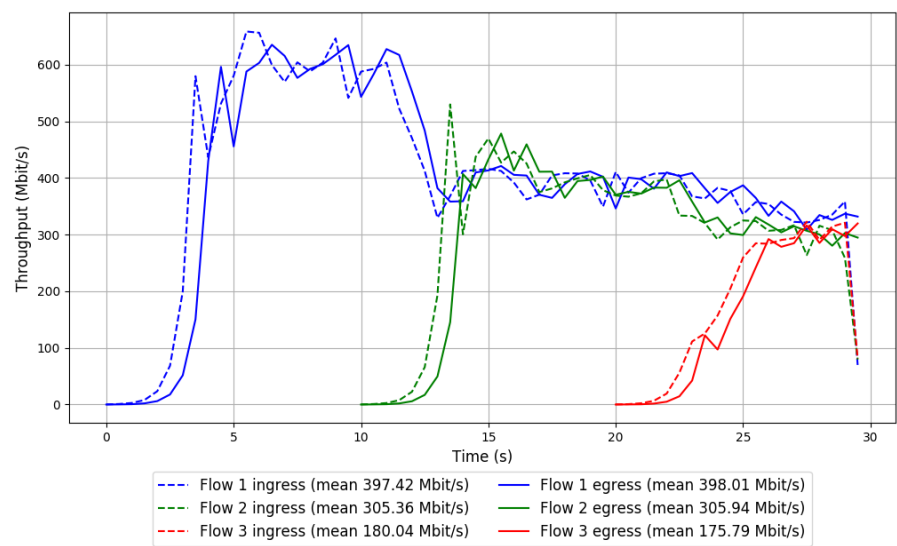


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 17:34:12  
End at: 2019-11-24 17:34:42  
Local clock offset: -0.11 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-11-24 20:26:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 654.72 Mbit/s  
95th percentile per-packet one-way delay: 160.157 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 398.01 Mbit/s  
95th percentile per-packet one-way delay: 165.016 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 305.94 Mbit/s  
95th percentile per-packet one-way delay: 138.443 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 175.79 Mbit/s  
95th percentile per-packet one-way delay: 135.870 ms  
Loss rate: 5.09%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

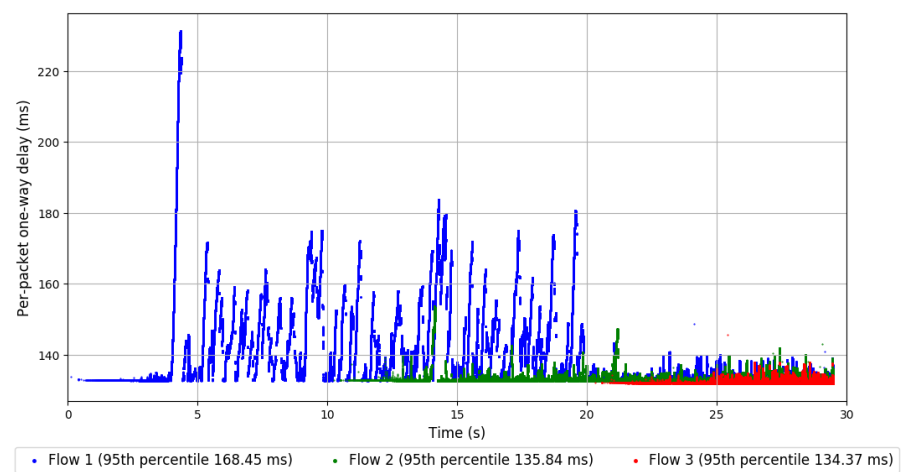
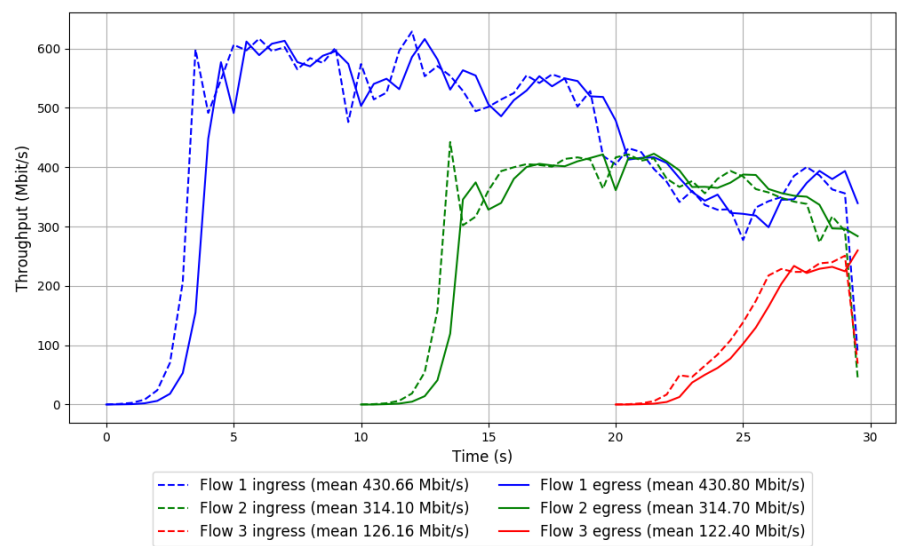


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-11-24 18:17:23  
End at: 2019-11-24 18:17:53  
Local clock offset: -0.073 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 20:28:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 675.30 Mbit/s  
95th percentile per-packet one-way delay: 163.131 ms  
Loss rate: 1.25%  
-- Flow 1:  
Average throughput: 430.80 Mbit/s  
95th percentile per-packet one-way delay: 168.448 ms  
Loss rate: 0.86%  
-- Flow 2:  
Average throughput: 314.70 Mbit/s  
95th percentile per-packet one-way delay: 135.841 ms  
Loss rate: 1.18%  
-- Flow 3:  
Average throughput: 122.40 Mbit/s  
95th percentile per-packet one-way delay: 134.372 ms  
Loss rate: 5.72%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-11-24 15:12:01

End at: 2019-11-24 15:12:31

Local clock offset: -0.034 ms

Remote clock offset: 0.157 ms

# Below is generated by plot.py at 2019-11-24 20:39:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 558.61 Mbit/s

95th percentile per-packet one-way delay: 175.819 ms

Loss rate: 2.22%

-- Flow 1:

Average throughput: 293.62 Mbit/s

95th percentile per-packet one-way delay: 149.879 ms

Loss rate: 1.44%

-- Flow 2:

Average throughput: 286.63 Mbit/s

95th percentile per-packet one-way delay: 193.069 ms

Loss rate: 2.94%

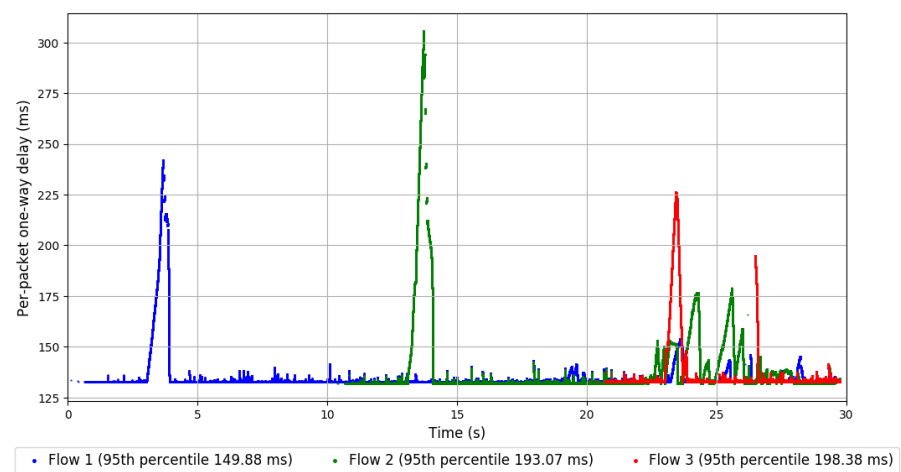
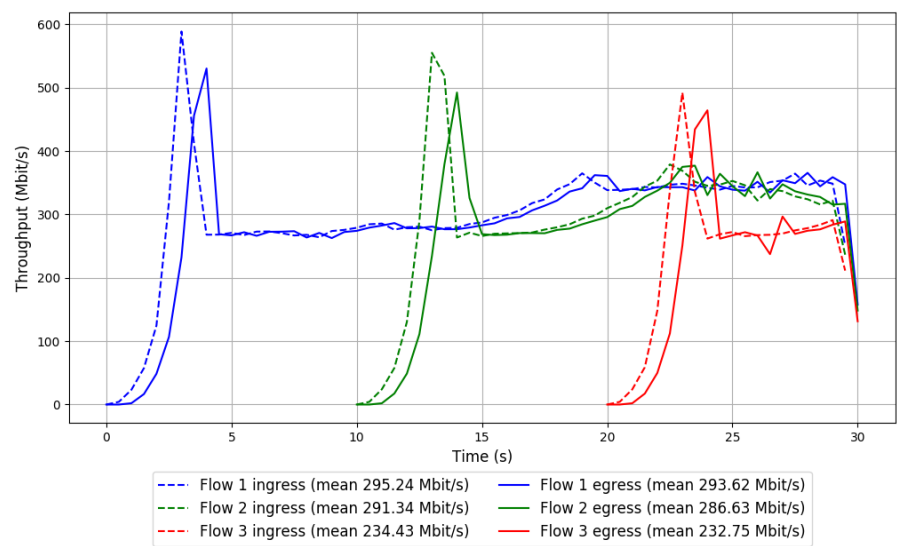
-- Flow 3:

Average throughput: 232.75 Mbit/s

95th percentile per-packet one-way delay: 198.381 ms

Loss rate: 3.41%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-11-24 15:55:15

End at: 2019-11-24 15:55:45

Local clock offset: -0.124 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 20:39:46

# Datalink statistics

-- Total of 3 flows:

Average throughput: 534.00 Mbit/s

95th percentile per-packet one-way delay: 226.050 ms

Loss rate: 1.77%

-- Flow 1:

Average throughput: 291.10 Mbit/s

95th percentile per-packet one-way delay: 220.200 ms

Loss rate: 1.35%

-- Flow 2:

Average throughput: 256.76 Mbit/s

95th percentile per-packet one-way delay: 221.282 ms

Loss rate: 1.62%

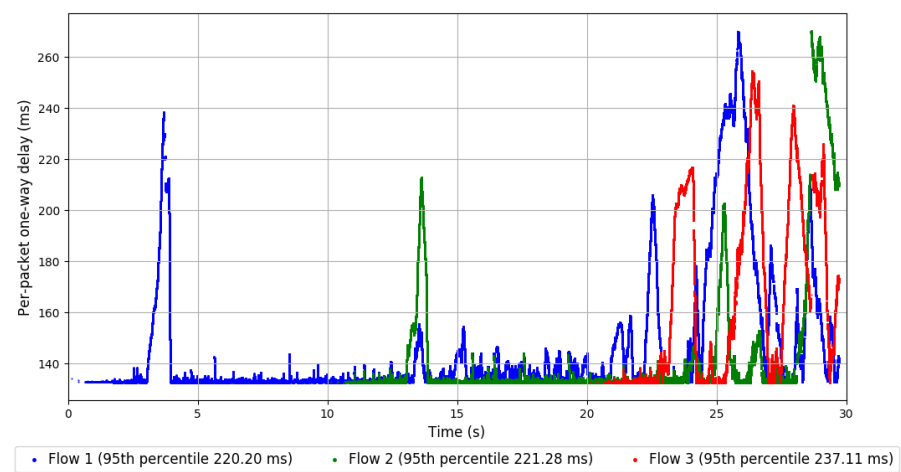
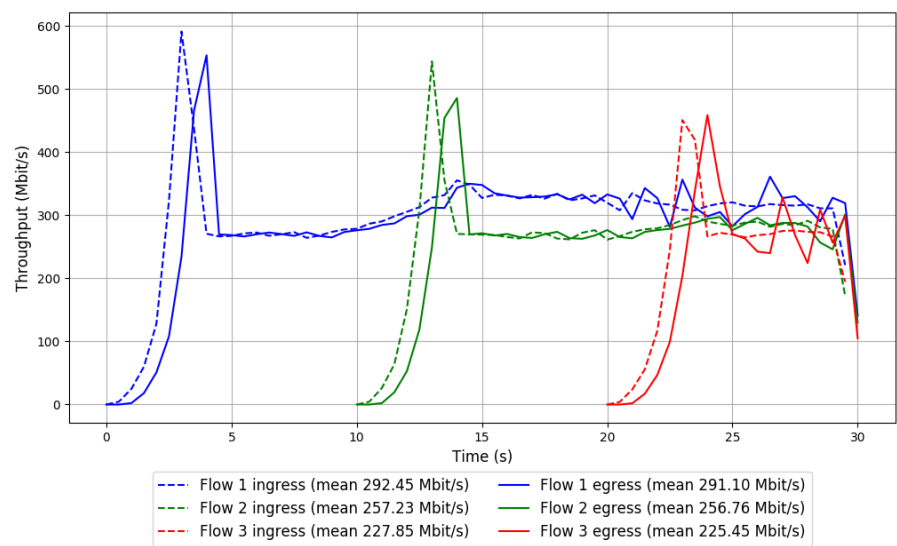
-- Flow 3:

Average throughput: 225.45 Mbit/s

95th percentile per-packet one-way delay: 237.107 ms

Loss rate: 3.73%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-11-24 16:38:32

End at: 2019-11-24 16:39:02

Local clock offset: -0.085 ms

Remote clock offset: -0.09 ms

# Below is generated by plot.py at 2019-11-24 20:42:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 540.07 Mbit/s

95th percentile per-packet one-way delay: 205.102 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 291.70 Mbit/s

95th percentile per-packet one-way delay: 200.796 ms

Loss rate: 2.11%

-- Flow 2:

Average throughput: 267.47 Mbit/s

95th percentile per-packet one-way delay: 198.443 ms

Loss rate: 2.29%

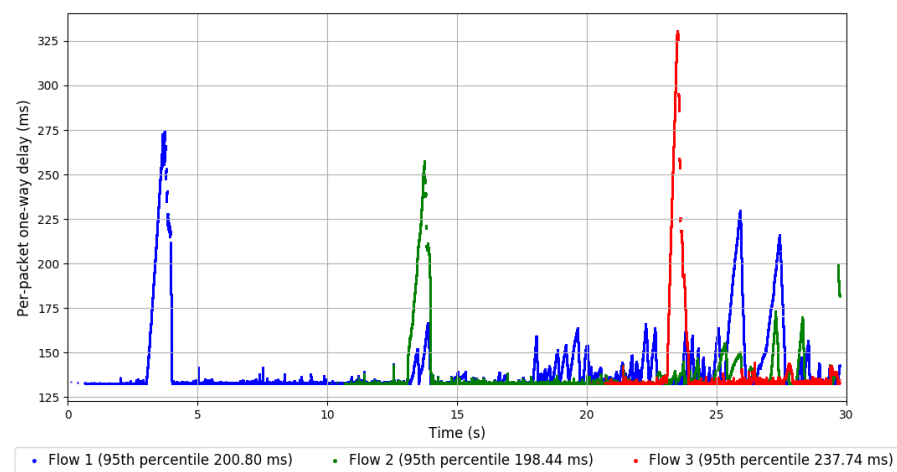
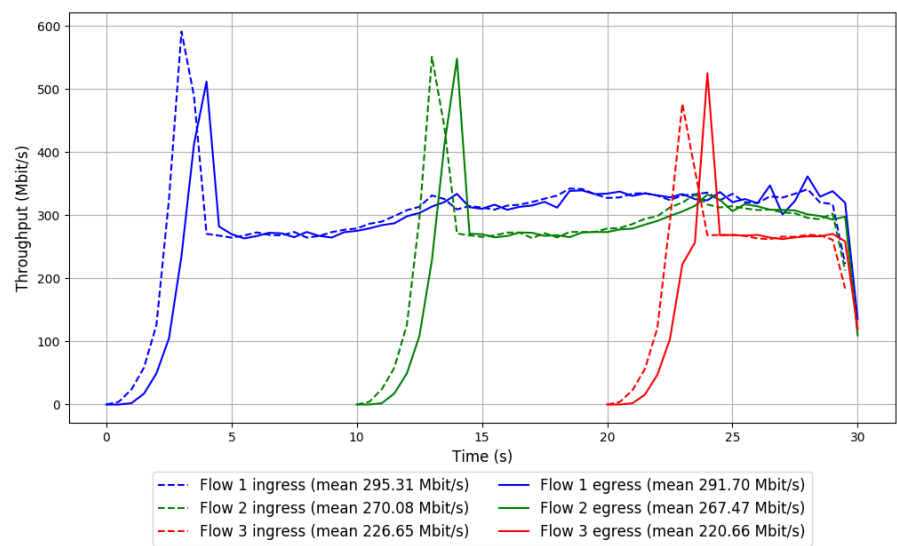
-- Flow 3:

Average throughput: 220.66 Mbit/s

95th percentile per-packet one-way delay: 237.742 ms

Loss rate: 5.27%

Run 3: Report of PCC-Allegro — Data Link

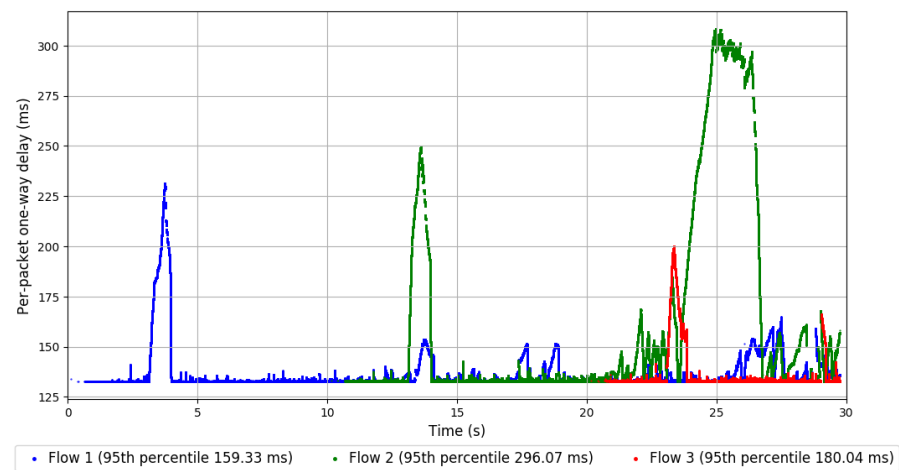
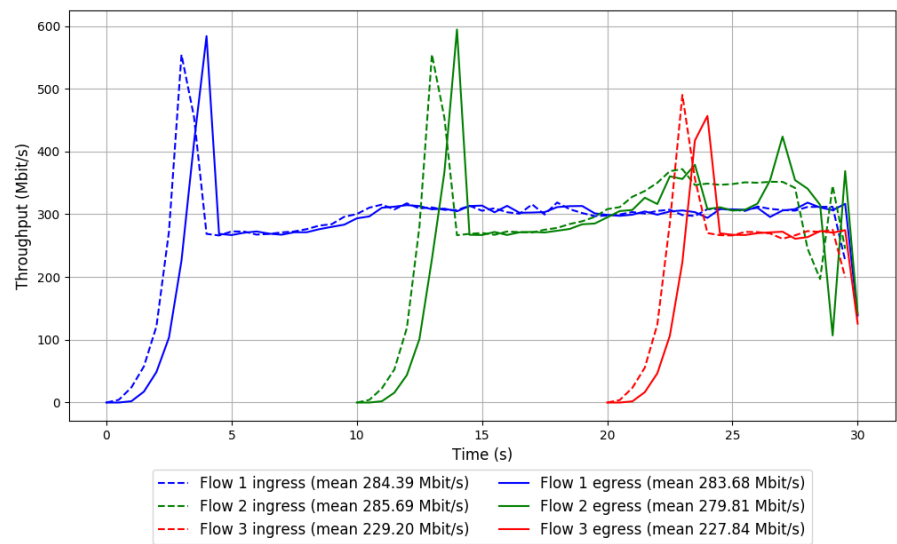


Run 4: Statistics of PCC-Allegro

Start at: 2019-11-24 17:21:58  
End at: 2019-11-24 17:22:28  
Local clock offset: -0.137 ms  
Remote clock offset: -0.014 ms

```
# Below is generated by plot.py at 2019-11-24 20:42:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 542.44 Mbit/s
95th percentile per-packet one-way delay: 238.678 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 283.68 Mbit/s
95th percentile per-packet one-way delay: 159.334 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 279.81 Mbit/s
95th percentile per-packet one-way delay: 296.072 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 227.84 Mbit/s
95th percentile per-packet one-way delay: 180.036 ms
Loss rate: 3.29%
```

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-11-24 18:05:03

End at: 2019-11-24 18:05:33

Local clock offset: -0.153 ms

Remote clock offset: -0.03 ms

# Below is generated by plot.py at 2019-11-24 20:44:27

# Datalink statistics

-- Total of 3 flows:

Average throughput: 559.92 Mbit/s

95th percentile per-packet one-way delay: 230.295 ms

Loss rate: 2.91%

-- Flow 1:

Average throughput: 315.99 Mbit/s

95th percentile per-packet one-way delay: 252.740 ms

Loss rate: 3.15%

-- Flow 2:

Average throughput: 257.95 Mbit/s

95th percentile per-packet one-way delay: 206.909 ms

Loss rate: 2.27%

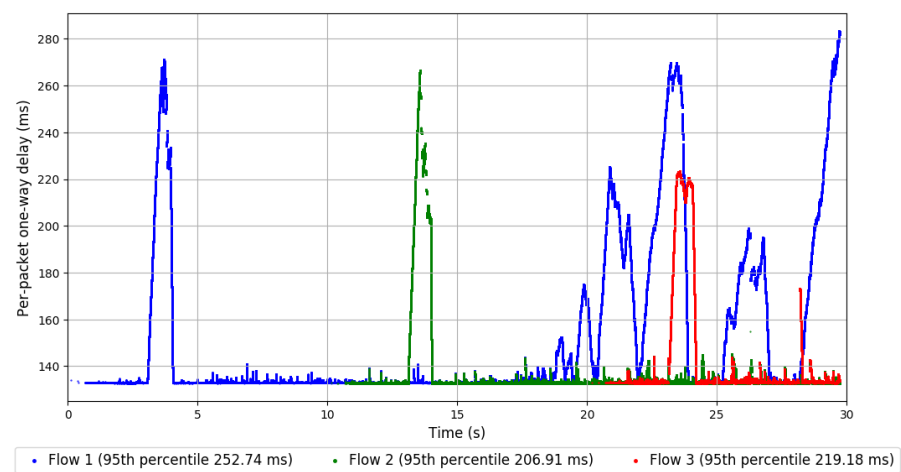
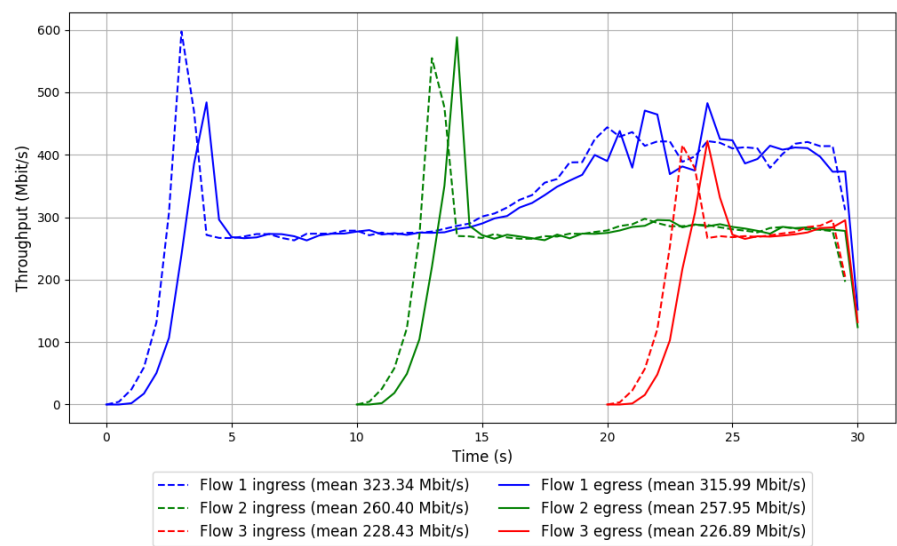
-- Flow 3:

Average throughput: 226.89 Mbit/s

95th percentile per-packet one-way delay: 219.177 ms

Loss rate: 3.37%

Run 5: Report of PCC-Allegro — Data Link

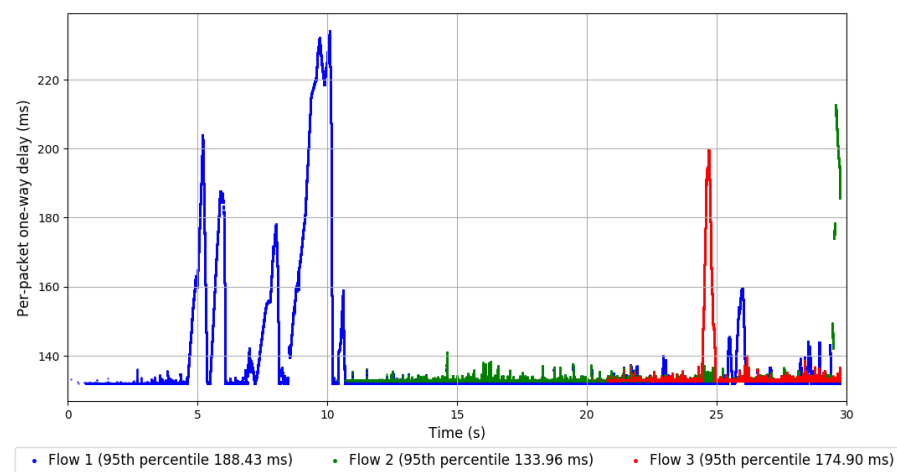
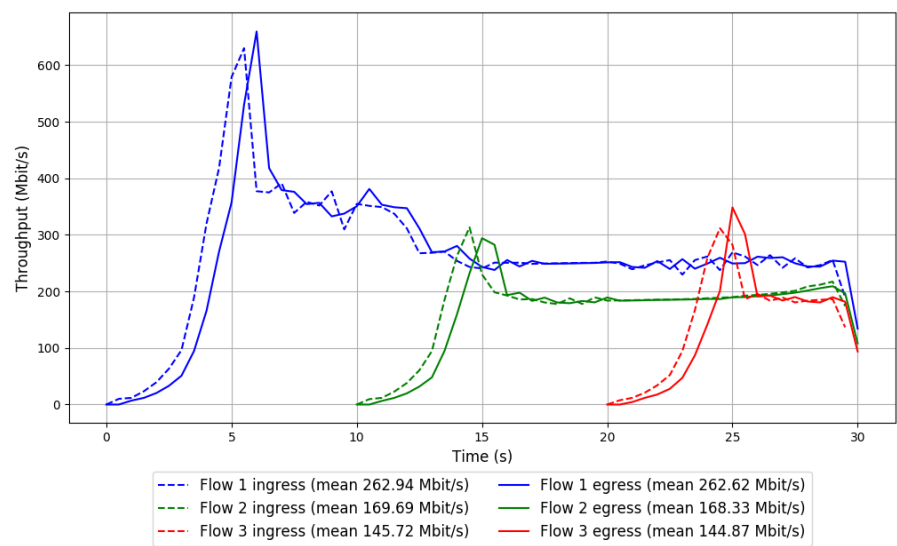


```
Run 1: Statistics of PCC-Expr

Start at: 2019-11-24 14:58:14
End at: 2019-11-24 14:58:44
Local clock offset: -0.153 ms
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-11-24 20:44:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 420.92 Mbit/s
95th percentile per-packet one-way delay: 183.484 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 262.62 Mbit/s
95th percentile per-packet one-way delay: 188.426 ms
Loss rate: 1.01%
-- Flow 2:
Average throughput: 168.33 Mbit/s
95th percentile per-packet one-way delay: 133.958 ms
Loss rate: 2.15%
-- Flow 3:
Average throughput: 144.87 Mbit/s
95th percentile per-packet one-way delay: 174.895 ms
Loss rate: 3.28%
```

Run 1: Report of PCC-Expr — Data Link



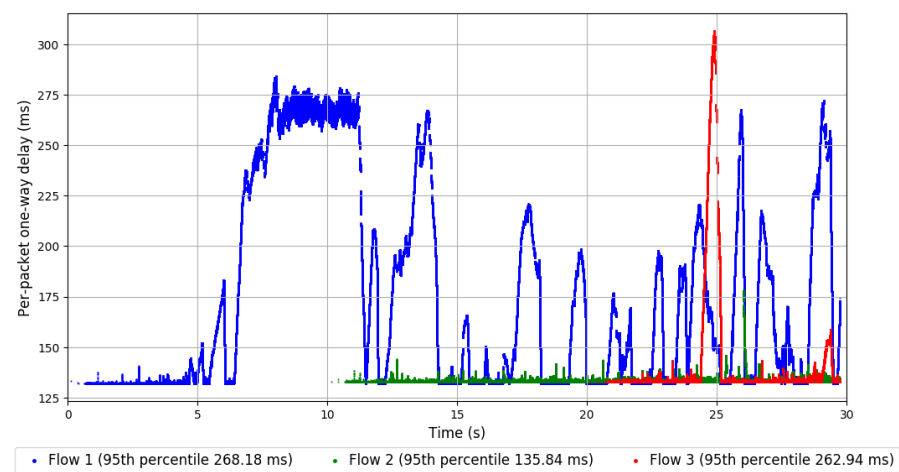
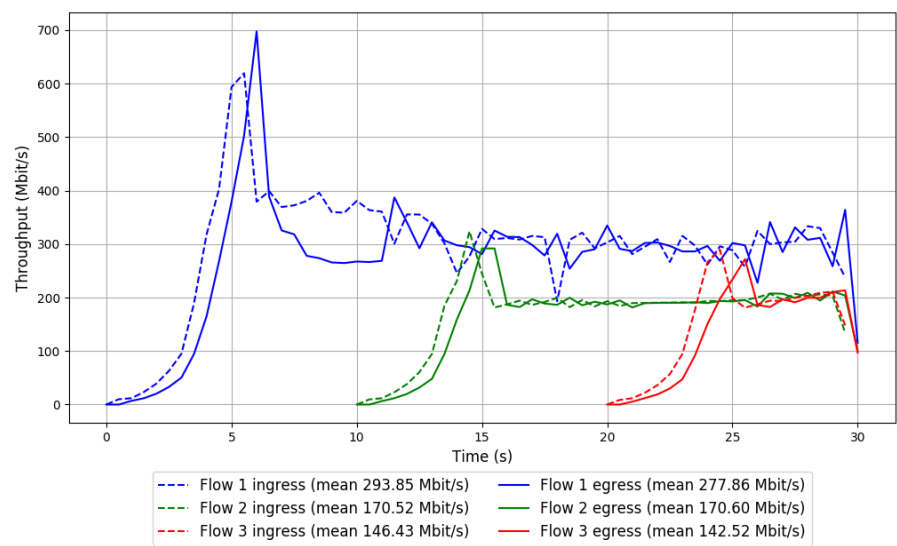


Run 2: Statistics of PCC-Expr

Start at: 2019-11-24 15:41:12  
End at: 2019-11-24 15:41:42  
Local clock offset: -0.11 ms  
Remote clock offset: -0.017 ms

# Below is generated by plot.py at 2019-11-24 20:44:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 436.97 Mbit/s  
95th percentile per-packet one-way delay: 265.871 ms  
Loss rate: 4.93%  
-- Flow 1:  
Average throughput: 277.86 Mbit/s  
95th percentile per-packet one-way delay: 268.181 ms  
Loss rate: 6.28%  
-- Flow 2:  
Average throughput: 170.60 Mbit/s  
95th percentile per-packet one-way delay: 135.837 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 142.52 Mbit/s  
95th percentile per-packet one-way delay: 262.940 ms  
Loss rate: 5.30%

Run 2: Report of PCC-Expr — Data Link

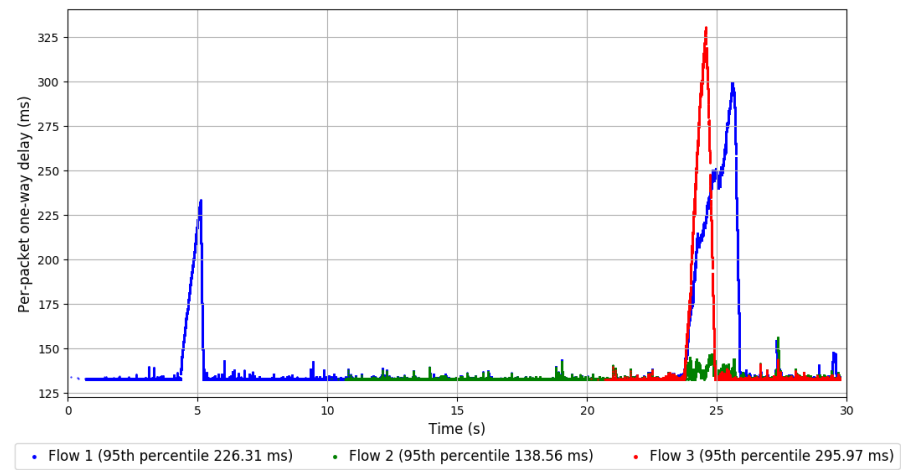
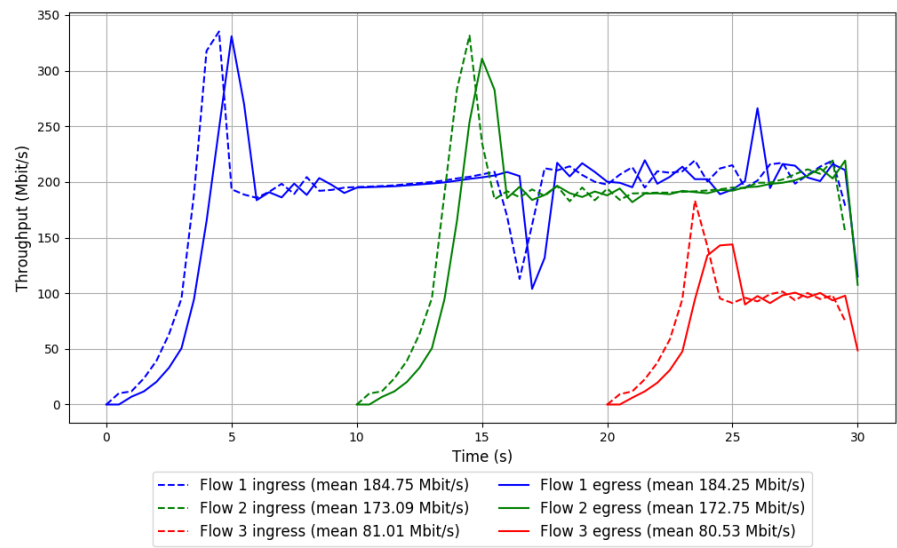


Run 3: Statistics of PCC-Expr

Start at: 2019-11-24 16:24:45  
End at: 2019-11-24 16:25:15  
Local clock offset: -0.126 ms  
Remote clock offset: -0.031 ms

# Below is generated by plot.py at 2019-11-24 20:44:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.71 Mbit/s  
95th percentile per-packet one-way delay: 211.943 ms  
Loss rate: 1.47%  
-- Flow 1:  
Average throughput: 184.25 Mbit/s  
95th percentile per-packet one-way delay: 226.305 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 172.75 Mbit/s  
95th percentile per-packet one-way delay: 138.558 ms  
Loss rate: 1.54%  
-- Flow 3:  
Average throughput: 80.53 Mbit/s  
95th percentile per-packet one-way delay: 295.967 ms  
Loss rate: 3.28%

Run 3: Report of PCC-Expr — Data Link

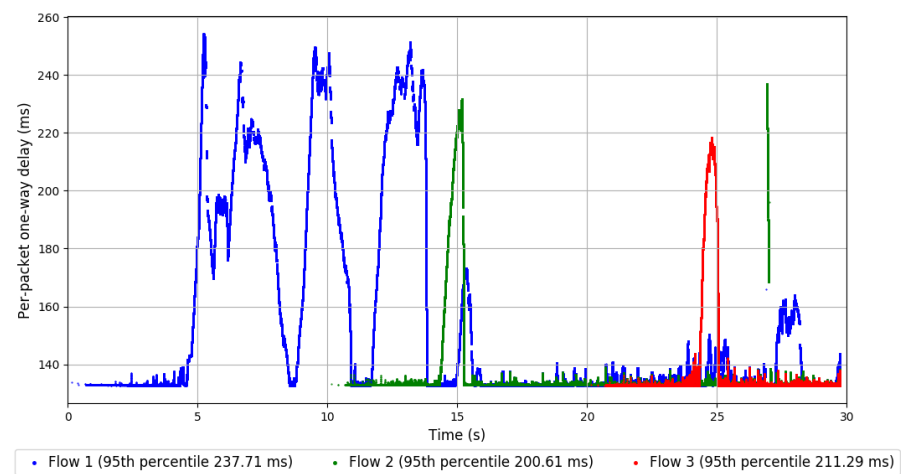
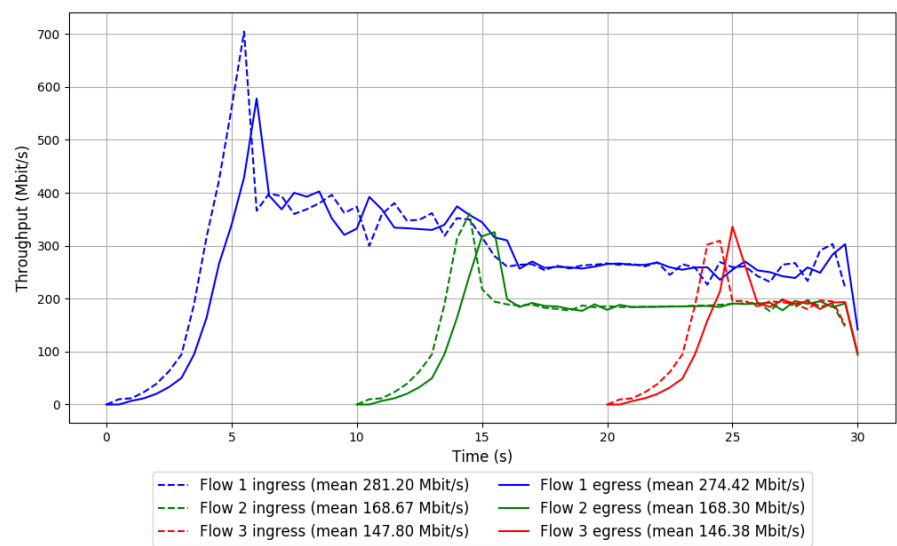


Run 4: Statistics of PCC-Expr

Start at: 2019-11-24 17:07:55  
End at: 2019-11-24 17:08:25  
Local clock offset: -0.083 ms  
Remote clock offset: -0.082 ms

# Below is generated by plot.py at 2019-11-24 20:54:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 433.28 Mbit/s  
95th percentile per-packet one-way delay: 232.370 ms  
Loss rate: 2.88%  
-- Flow 1:  
Average throughput: 274.42 Mbit/s  
95th percentile per-packet one-way delay: 237.708 ms  
Loss rate: 3.28%  
-- Flow 2:  
Average throughput: 168.30 Mbit/s  
95th percentile per-packet one-way delay: 200.609 ms  
Loss rate: 1.56%  
-- Flow 3:  
Average throughput: 146.38 Mbit/s  
95th percentile per-packet one-way delay: 211.290 ms  
Loss rate: 3.63%

Run 4: Report of PCC-Expr — Data Link

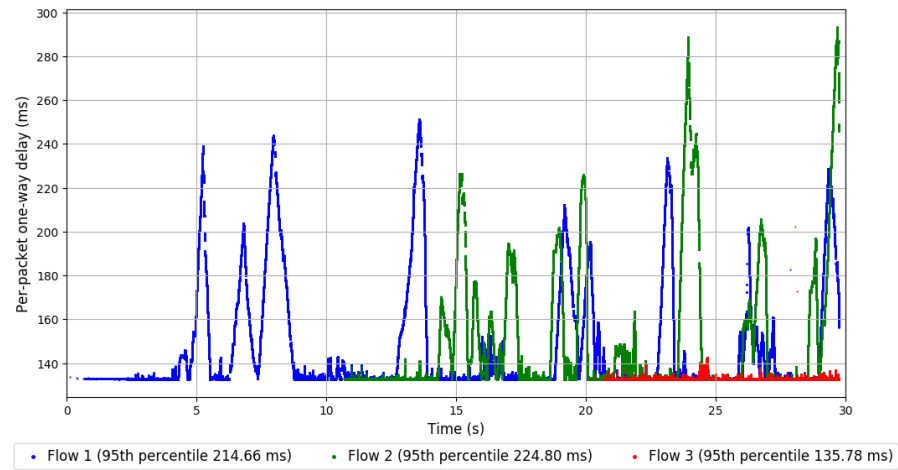
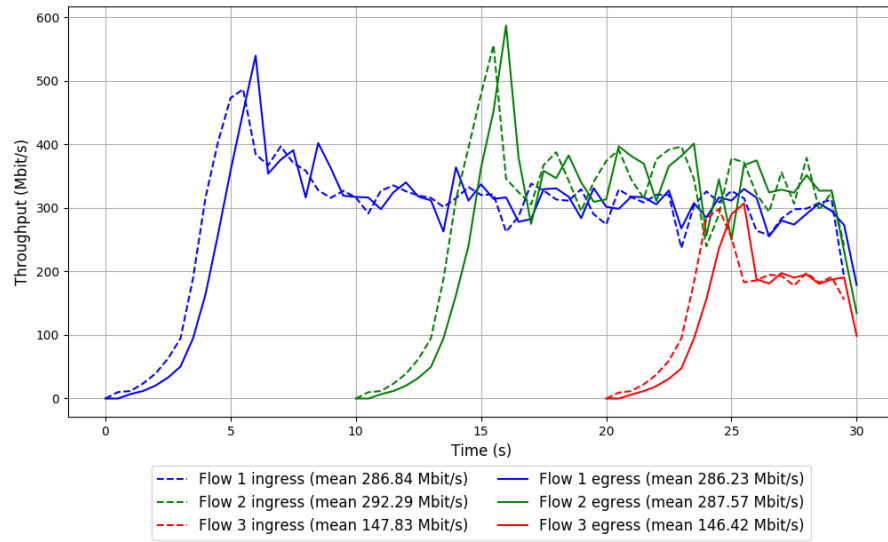


Run 5: Statistics of PCC-Expr

Start at: 2019-11-24 17:50:32  
End at: 2019-11-24 17:51:02  
Local clock offset: -0.164 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 524.04 Mbit/s  
95th percentile per-packet one-way delay: 217.721 ms  
Loss rate: 2.01%  
-- Flow 1:  
Average throughput: 286.23 Mbit/s  
95th percentile per-packet one-way delay: 214.655 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 287.57 Mbit/s  
95th percentile per-packet one-way delay: 224.796 ms  
Loss rate: 2.93%  
-- Flow 3:  
Average throughput: 146.42 Mbit/s  
95th percentile per-packet one-way delay: 135.780 ms  
Loss rate: 3.63%

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





Run 1: Statistics of QUIC Cubic

Start at: 2019-11-24 15:26:31

End at: 2019-11-24 15:27:01

Local clock offset: -0.062 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 113.12 Mbit/s

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

Loss rate: 1.37%

-- Flow 1:

Average throughput: 48.67 Mbit/s

95th percentile per-packet one-way delay: 132.948 ms

Loss rate: 1.73%

-- Flow 2:

Average throughput: 61.45 Mbit/s

95th percentile per-packet one-way delay: 132.867 ms

Loss rate: 0.66%

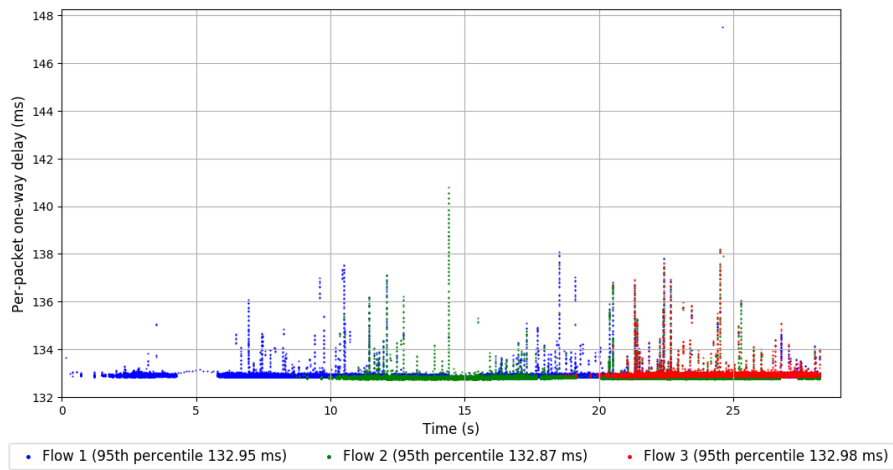
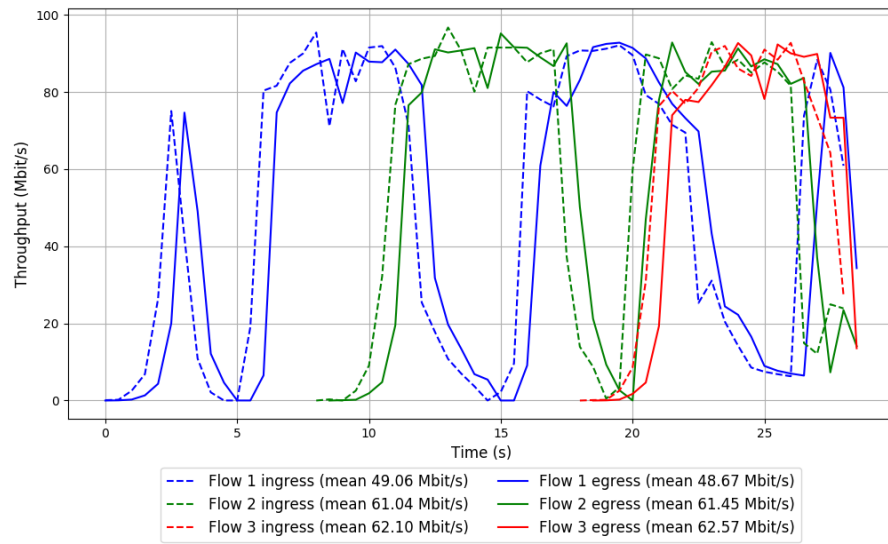
-- Flow 3:

Average throughput: 62.57 Mbit/s

95th percentile per-packet one-way delay: 132.978 ms

Loss rate: 1.96%

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

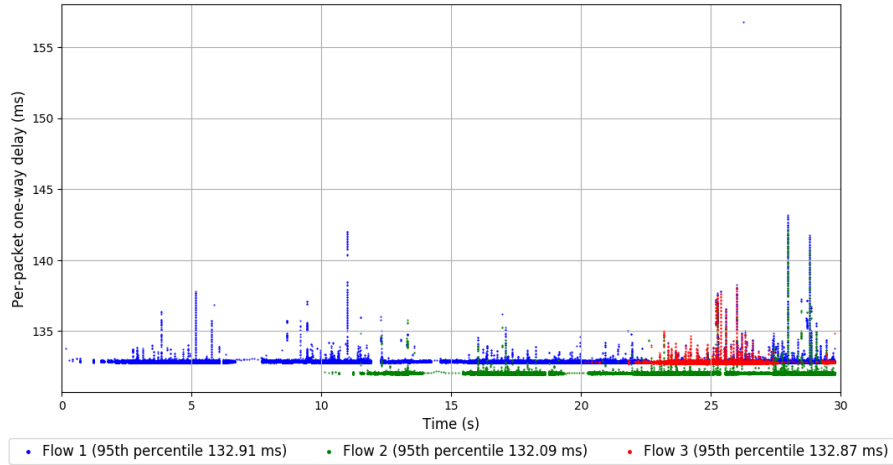
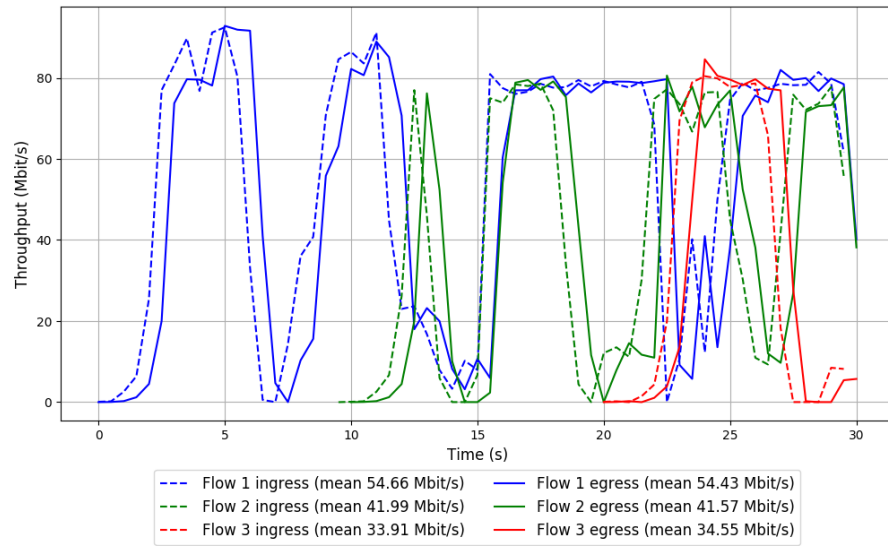


Run 2: Statistics of QUIC Cubic

Start at: 2019-11-24 16:09:50  
End at: 2019-11-24 16:10:20  
Local clock offset: -0.109 ms  
Remote clock offset: -0.059 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.19 Mbit/s  
95th percentile per-packet one-way delay: 132.899 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 54.43 Mbit/s  
95th percentile per-packet one-way delay: 132.913 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 41.57 Mbit/s  
95th percentile per-packet one-way delay: 132.090 ms  
Loss rate: 2.32%  
-- Flow 3:  
Average throughput: 34.55 Mbit/s  
95th percentile per-packet one-way delay: 132.867 ms  
Loss rate: 0.83%

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

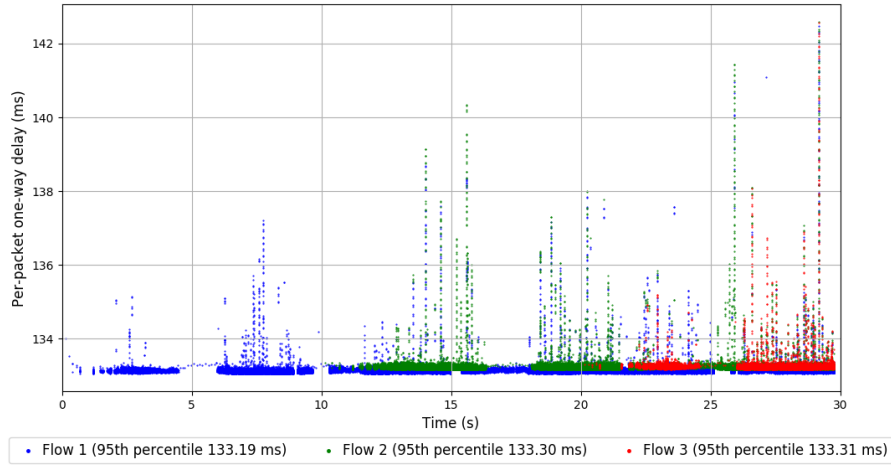
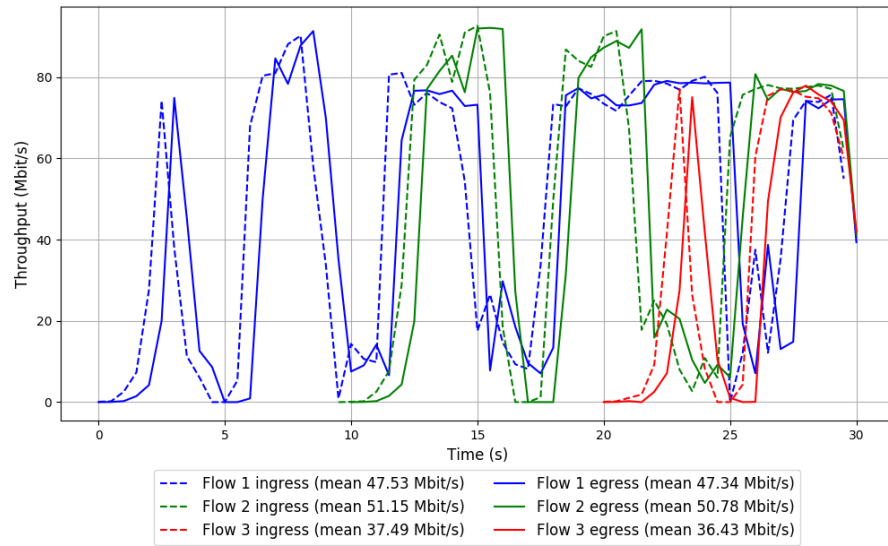


Run 3: Statistics of QUIC Cubic

Start at: 2019-11-24 16:53:19  
End at: 2019-11-24 16:53:49  
Local clock offset: 0.285 ms  
Remote clock offset: -0.083 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.80 Mbit/s  
95th percentile per-packet one-way delay: 133.280 ms  
Loss rate: 2.11%  
-- Flow 1:  
Average throughput: 47.34 Mbit/s  
95th percentile per-packet one-way delay: 133.188 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 50.78 Mbit/s  
95th percentile per-packet one-way delay: 133.298 ms  
Loss rate: 2.05%  
-- Flow 3:  
Average throughput: 36.43 Mbit/s  
95th percentile per-packet one-way delay: 133.306 ms  
Loss rate: 5.43%

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

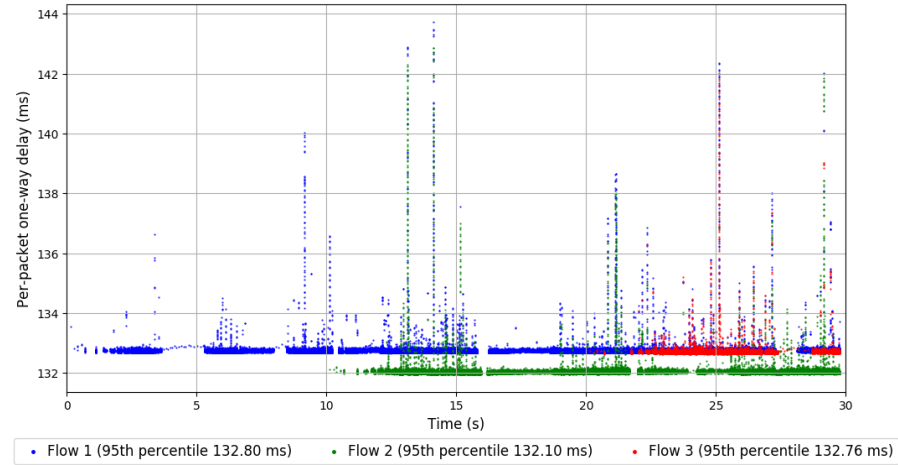
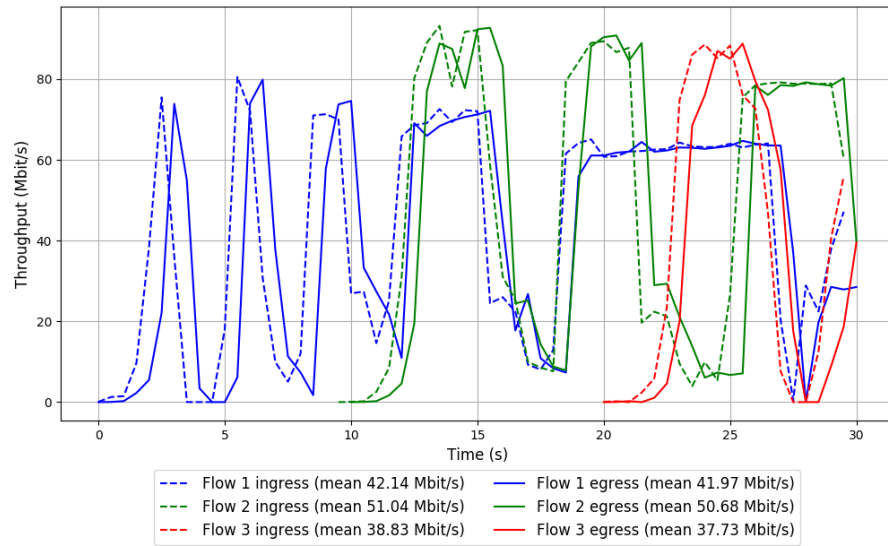


Run 4: Statistics of QUIC Cubic

Start at: 2019-11-24 17:36:11  
End at: 2019-11-24 17:36:41  
Local clock offset: -0.09 ms  
Remote clock offset: -0.038 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.82 Mbit/s  
95th percentile per-packet one-way delay: 132.785 ms  
Loss rate: 2.16%  
-- Flow 1:  
Average throughput: 41.97 Mbit/s  
95th percentile per-packet one-way delay: 132.803 ms  
Loss rate: 1.27%  
-- Flow 2:  
Average throughput: 50.68 Mbit/s  
95th percentile per-packet one-way delay: 132.102 ms  
Loss rate: 2.02%  
-- Flow 3:  
Average throughput: 37.73 Mbit/s  
95th percentile per-packet one-way delay: 132.763 ms  
Loss rate: 5.46%

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



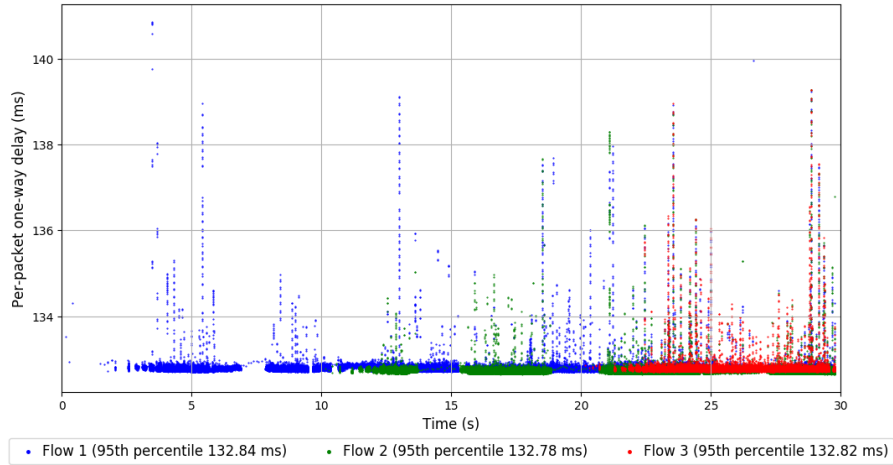
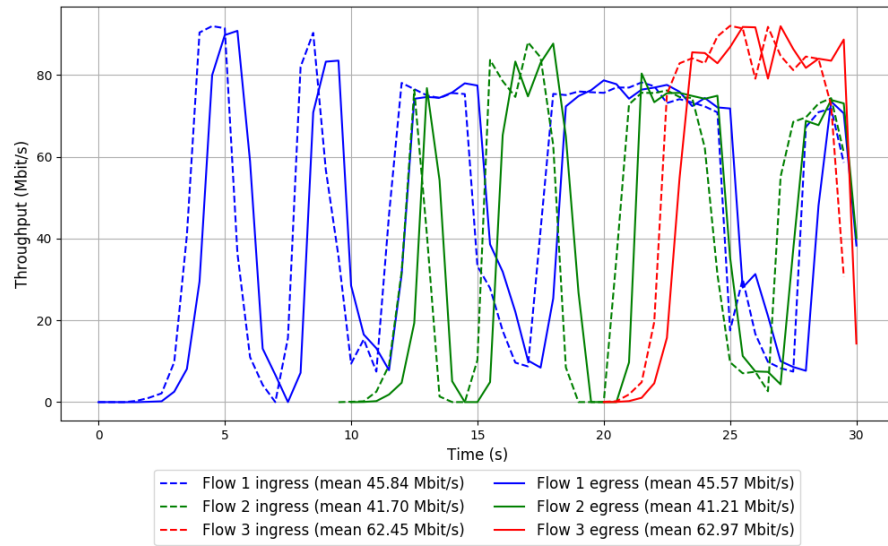


Run 5: Statistics of QUIC Cubic

Start at: 2019-11-24 18:19:23  
End at: 2019-11-24 18:19:53  
Local clock offset: -0.01 ms  
Remote clock offset: -0.023 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.29 Mbit/s  
95th percentile per-packet one-way delay: 132.829 ms  
Loss rate: 1.85%  
-- Flow 1:  
Average throughput: 45.57 Mbit/s  
95th percentile per-packet one-way delay: 132.841 ms  
Loss rate: 1.46%  
-- Flow 2:  
Average throughput: 41.21 Mbit/s  
95th percentile per-packet one-way delay: 132.784 ms  
Loss rate: 2.46%  
-- Flow 3:  
Average throughput: 62.97 Mbit/s  
95th percentile per-packet one-way delay: 132.823 ms  
Loss rate: 1.88%

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



Run 1: Statistics of SCReAM

Start at: 2019-11-24 15:00:15

End at: 2019-11-24 15:00:45

Local clock offset: -0.101 ms

Remote clock offset: 0.369 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 132.686 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.700 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.641 ms

Loss rate: 1.39%

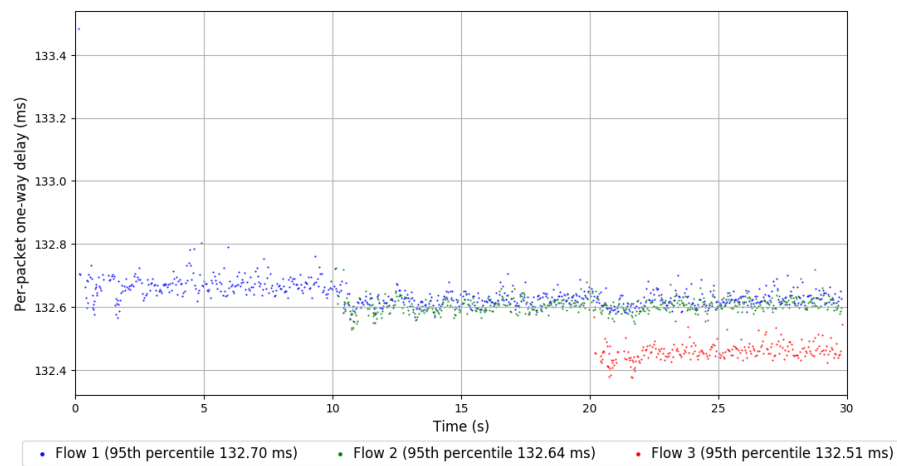
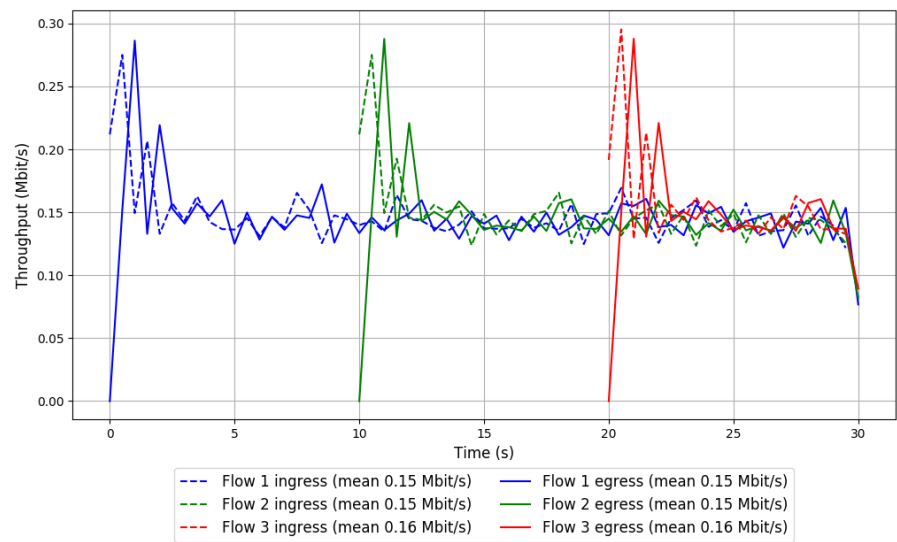
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 132.510 ms

Loss rate: 2.45%

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2019-11-24 15:43:17

End at: 2019-11-24 15:43:47

Local clock offset: -0.036 ms

Remote clock offset: 0.028 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.30 Mbit/s

95th percentile per-packet one-way delay: 132.984 ms

Loss rate: 1.32%

-- Flow 1:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.996 ms

Loss rate: 0.88%

-- Flow 2:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 132.905 ms

Loss rate: 1.39%

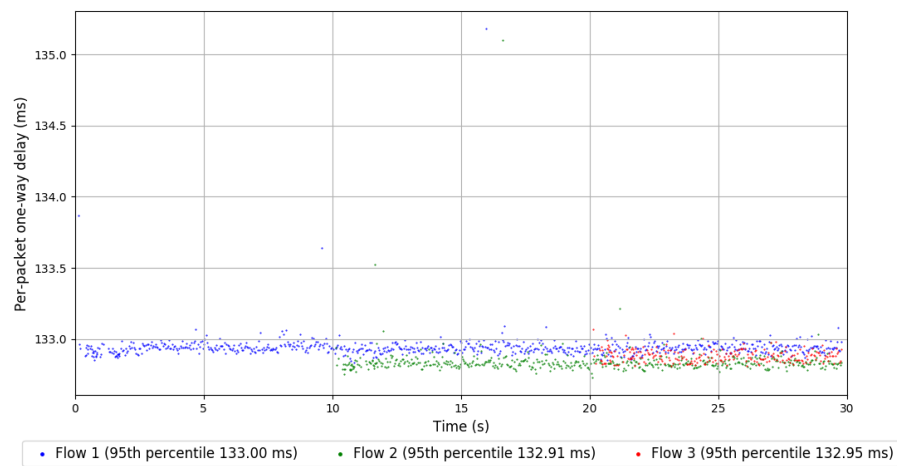
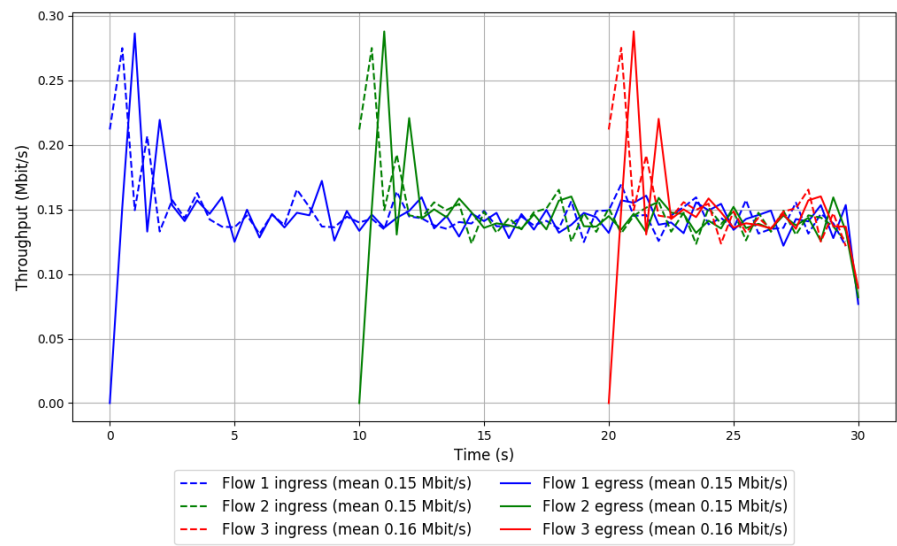
-- Flow 3:

Average throughput: 0.16 Mbit/s

95th percentile per-packet one-way delay: 132.951 ms

Loss rate: 2.45%

Run 2: Report of SReAM — Data Link

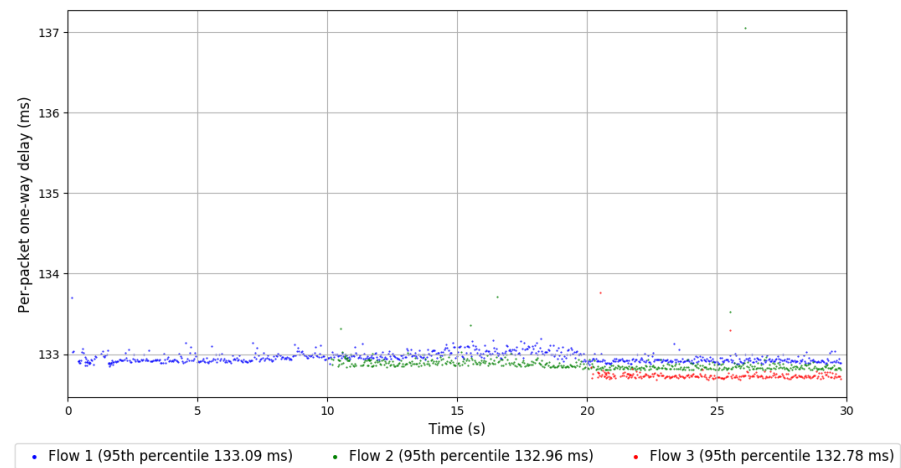
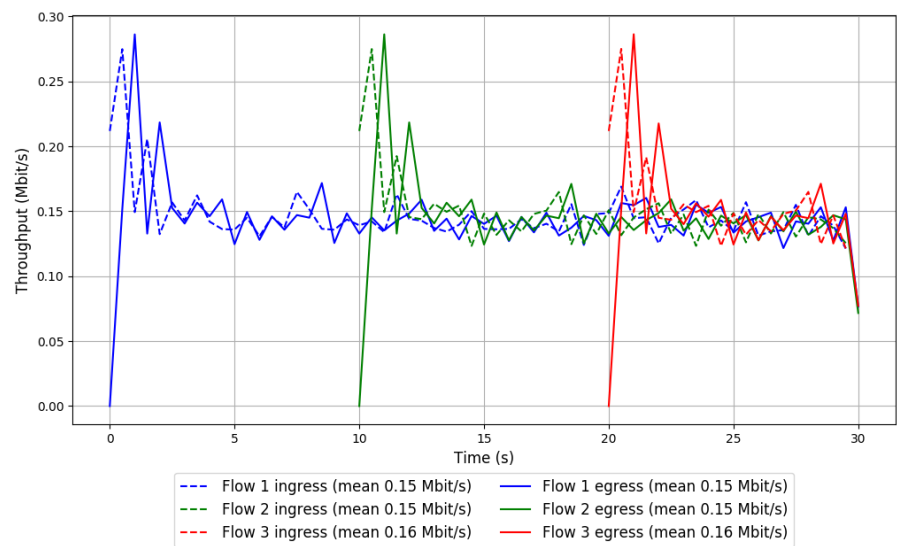


Run 3: Statistics of SCReAM

Start at: 2019-11-24 16:26:38  
End at: 2019-11-24 16:27:08  
Local clock offset: -0.105 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 133.053 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 133.088 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.956 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 132.780 ms  
Loss rate: 2.45%

Run 3: Report of SReAM — Data Link



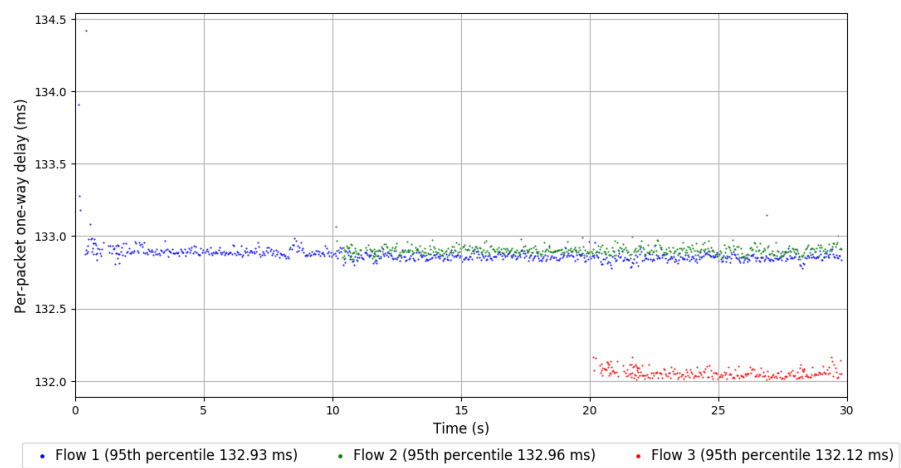
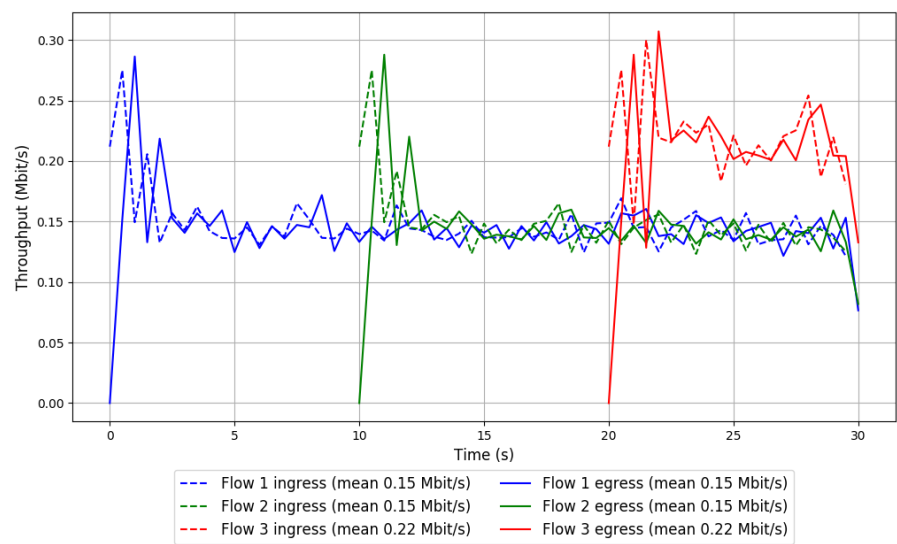


Run 4: Statistics of SReAM

Start at: 2019-11-24 17:09:59  
End at: 2019-11-24 17:10:29  
Local clock offset: -0.113 ms  
Remote clock offset: -0.072 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 132.941 ms  
Loss rate: 1.43%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.934 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.955 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 132.115 ms  
Loss rate: 2.60%

Run 4: Report of SReAM — Data Link

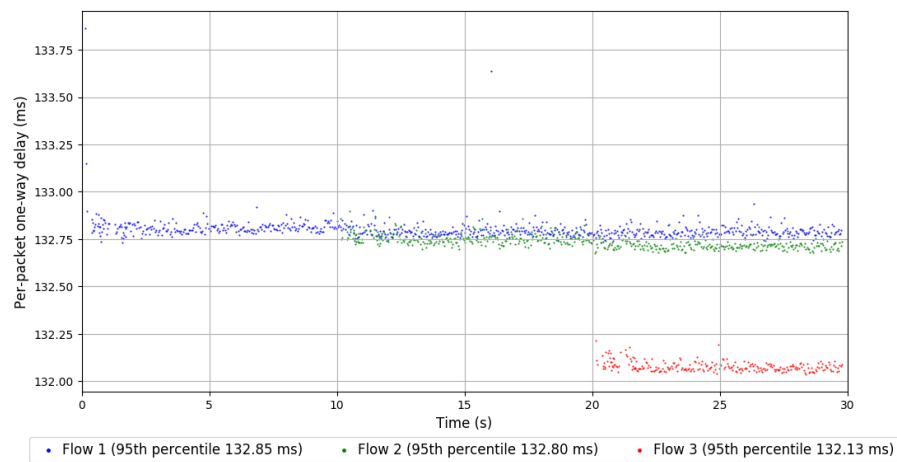
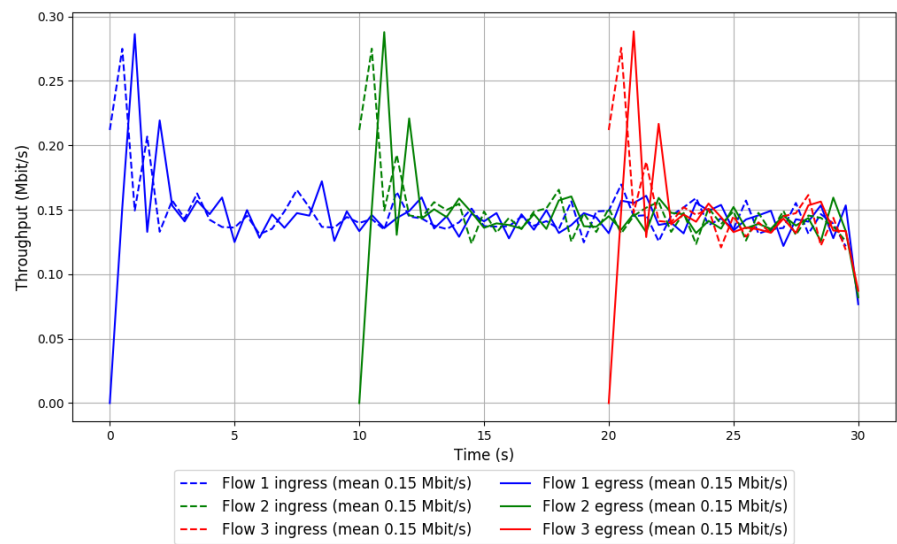


Run 5: Statistics of SCReAM

Start at: 2019-11-24 17:52:40  
End at: 2019-11-24 17:53:10  
Local clock offset: -0.145 ms  
Remote clock offset: -0.015 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 132.837 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.849 ms  
Loss rate: 0.88%  
-- Flow 2:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.799 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 132.129 ms  
Loss rate: 2.44%

Run 5: Report of SReAM — Data Link



Run 1: Statistics of Sprout

Start at: 2019-11-24 15:19:24

End at: 2019-11-24 15:19:54

Local clock offset: -0.088 ms

Remote clock offset: 0.142 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.27 Mbit/s

95th percentile per-packet one-way delay: 133.033 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 132.223 ms

Loss rate: 0.84%

-- Flow 2:

Average throughput: 0.67 Mbit/s

95th percentile per-packet one-way delay: 133.068 ms

Loss rate: 1.08%

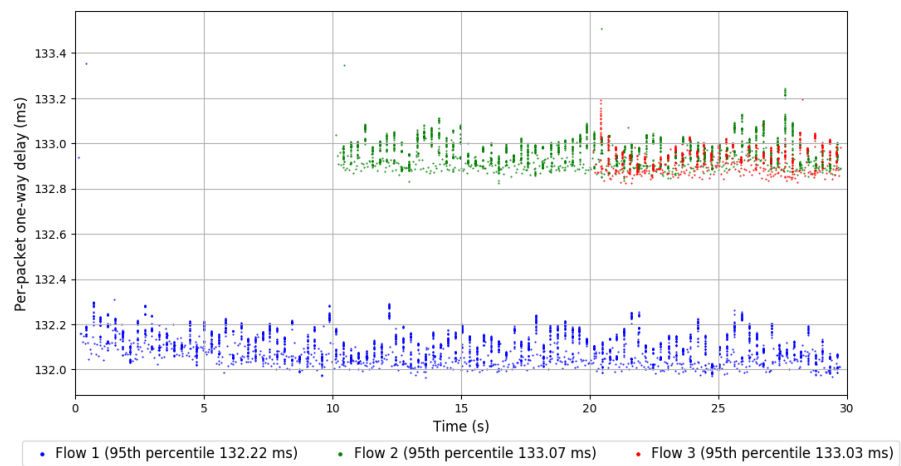
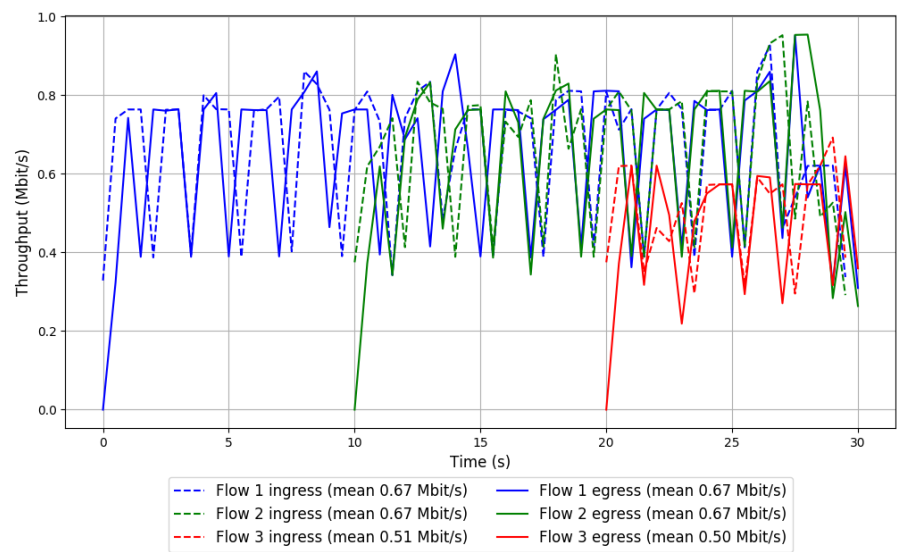
-- Flow 3:

Average throughput: 0.50 Mbit/s

95th percentile per-packet one-way delay: 133.025 ms

Loss rate: 3.82%

Run 1: Report of Sprout — Data Link



## Run 2: Statistics of Sprout

Start at: 2019-11-24 16:02:38

End at: 2019-11-24 16:03:08

Local clock offset: -0.047 ms

Remote clock offset: 0.016 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.33 Mbit/s

95th percentile per-packet one-way delay: 133.067 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 0.70 Mbit/s

95th percentile per-packet one-way delay: 133.053 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 133.056 ms

Loss rate: 1.24%

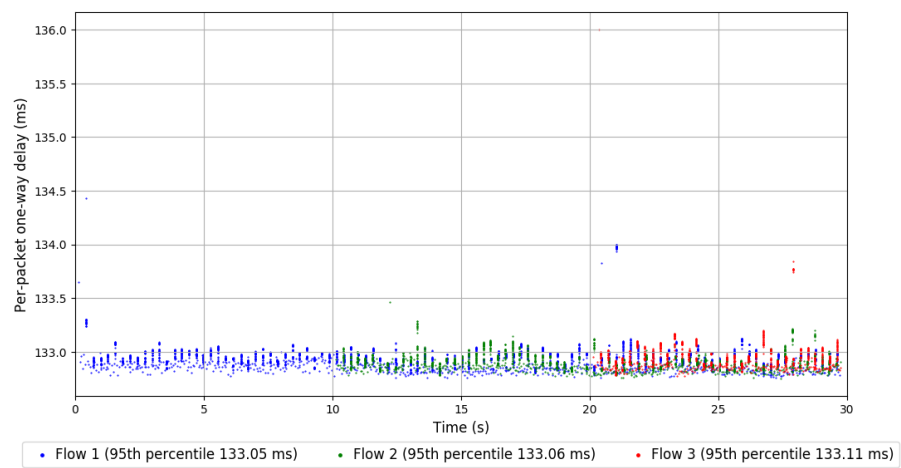
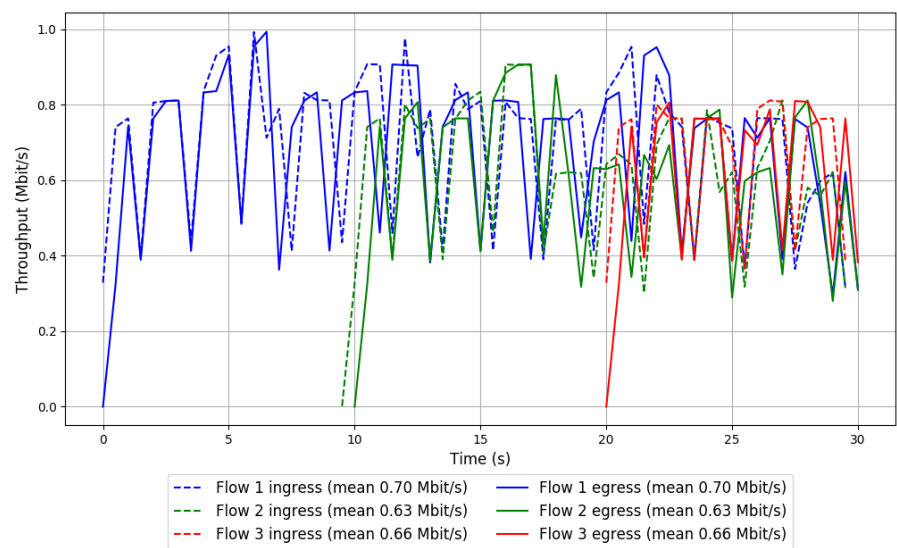
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 133.106 ms

Loss rate: 2.93%

Run 2: Report of Sprout — Data Link



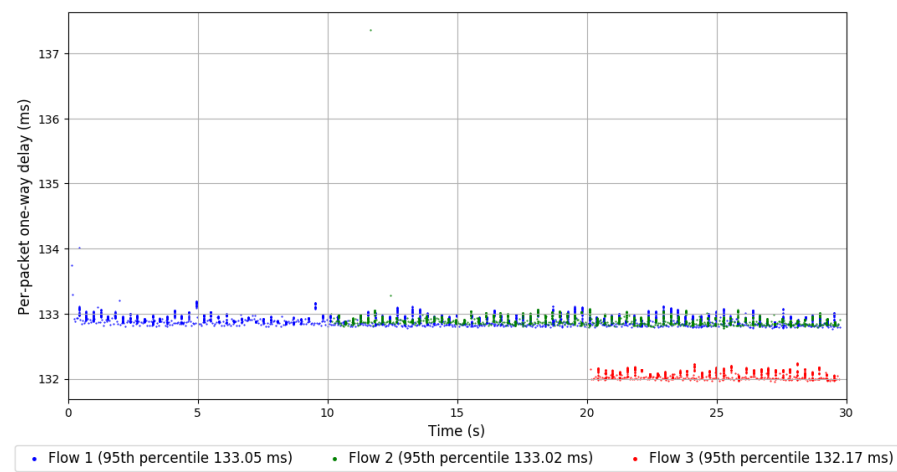
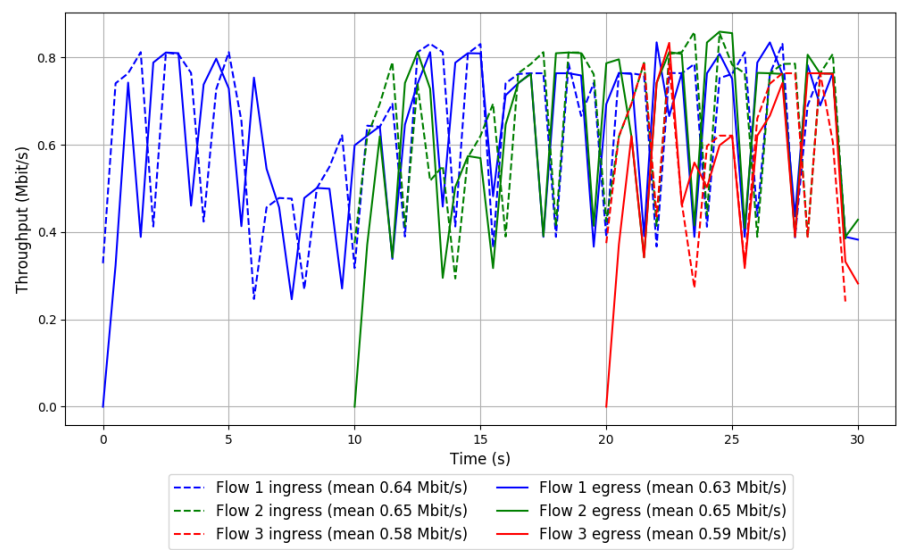


### Run 3: Statistics of Sprout

Start at: 2019-11-24 16:46:07  
End at: 2019-11-24 16:46:37  
Local clock offset: -0.11 ms  
Remote clock offset: -0.063 ms

```
# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 133.029 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 133.046 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 133.022 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.59 Mbit/s
95th percentile per-packet one-way delay: 132.171 ms
Loss rate: 2.06%
```

Run 3: Report of Sprout — Data Link

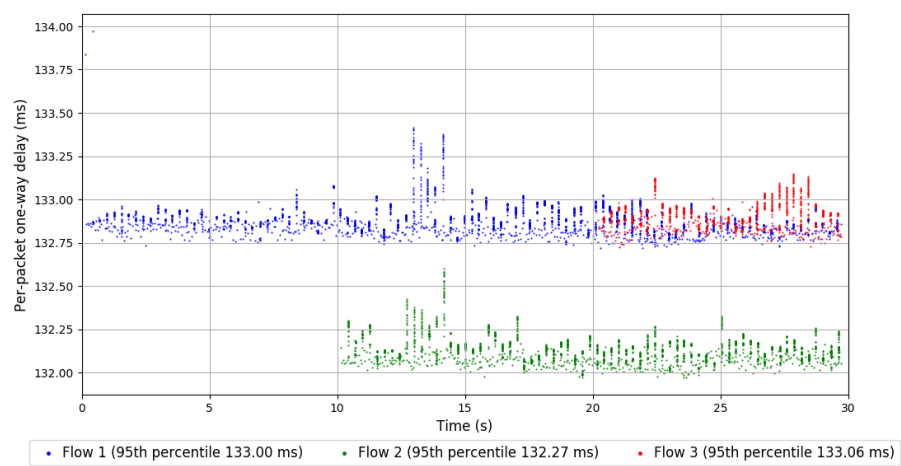
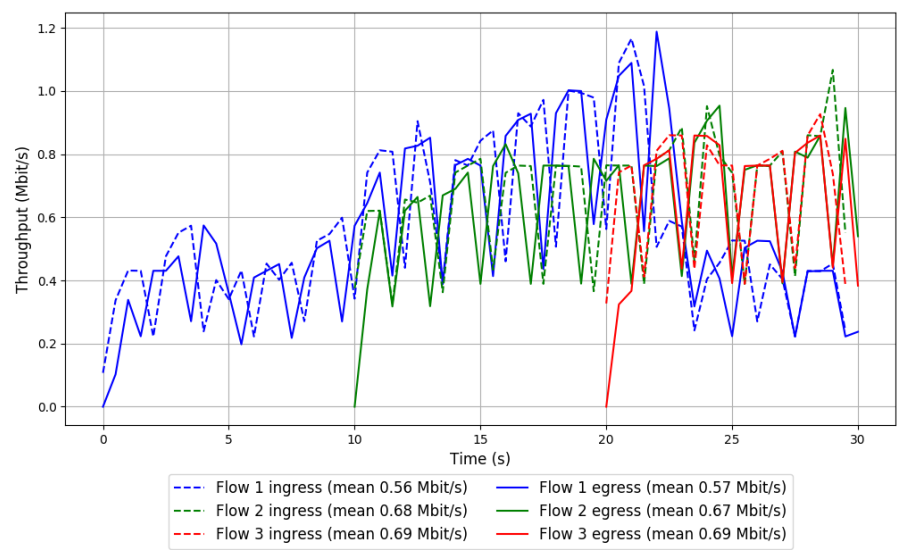


#### Run 4: Statistics of Sprout

Start at: 2019-11-24 17:29:21  
End at: 2019-11-24 17:29:51  
Local clock offset: -0.12 ms  
Remote clock offset: -0.023 ms

```
# Below is generated by plot.py at 2019-11-24 20:58:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 132.999 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 0.57 Mbit/s
95th percentile per-packet one-way delay: 133.005 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 0.67 Mbit/s
95th percentile per-packet one-way delay: 132.270 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 0.69 Mbit/s
95th percentile per-packet one-way delay: 133.064 ms
Loss rate: 2.80%
```

Run 4: Report of Sprout — Data Link

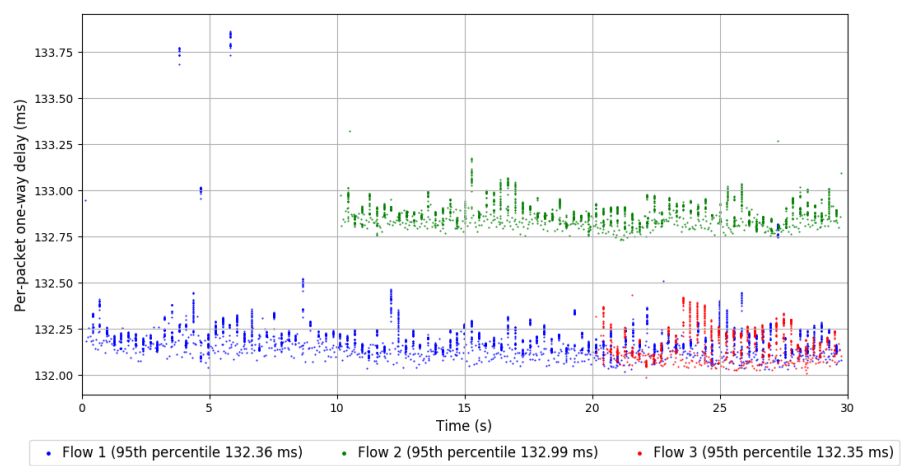
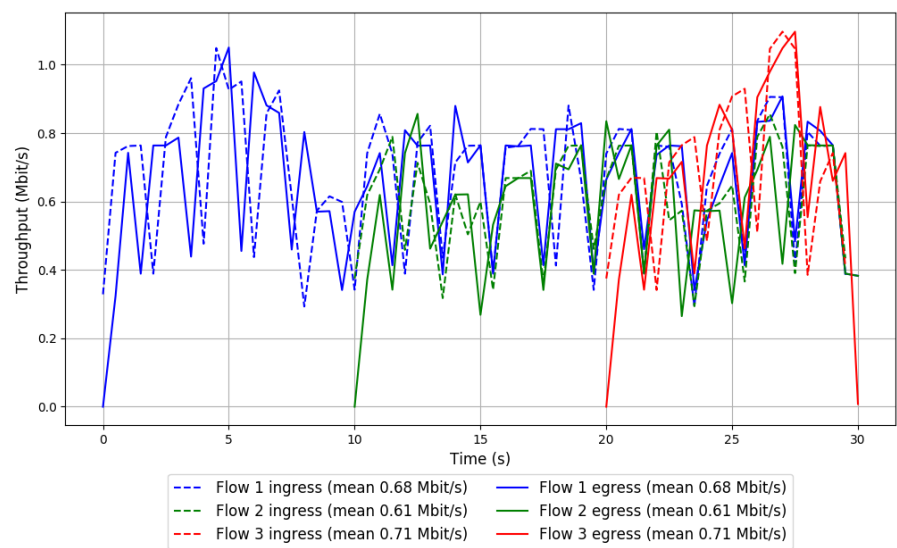


Run 5: Statistics of Sprout

Start at: 2019-11-24 18:12:11  
End at: 2019-11-24 18:12:41  
Local clock offset: -0.078 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 1.31 Mbit/s  
95th percentile per-packet one-way delay: 132.941 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 0.68 Mbit/s  
95th percentile per-packet one-way delay: 132.359 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 132.988 ms  
Loss rate: 1.77%  
-- Flow 3:  
Average throughput: 0.71 Mbit/s  
95th percentile per-packet one-way delay: 132.346 ms  
Loss rate: 2.90%

Run 5: Report of Sprout — Data Link



Run 1: Statistics of TaoVA-100x

Start at: 2019-11-24 15:17:28

End at: 2019-11-24 15:17:58

Local clock offset: -0.103 ms

Remote clock offset: 0.208 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 336.93 Mbit/s

95th percentile per-packet one-way delay: 133.312 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 203.49 Mbit/s

95th percentile per-packet one-way delay: 133.300 ms

Loss rate: 0.95%

-- Flow 2:

Average throughput: 194.97 Mbit/s

95th percentile per-packet one-way delay: 133.352 ms

Loss rate: 1.49%

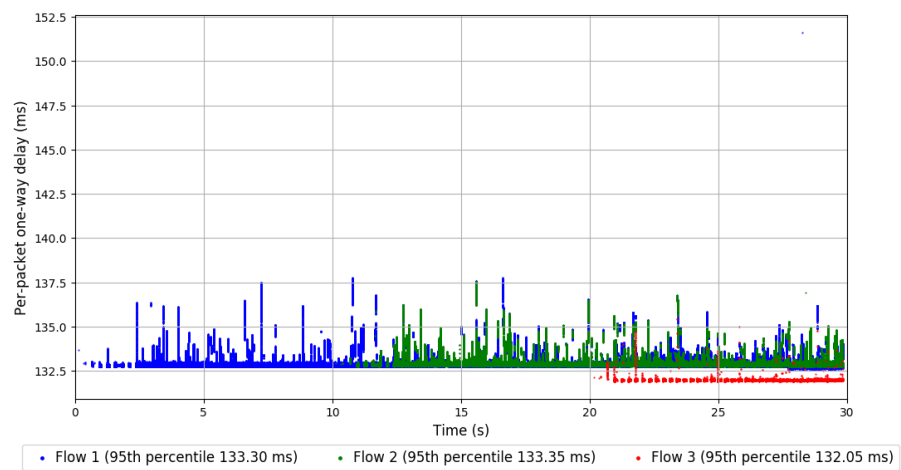
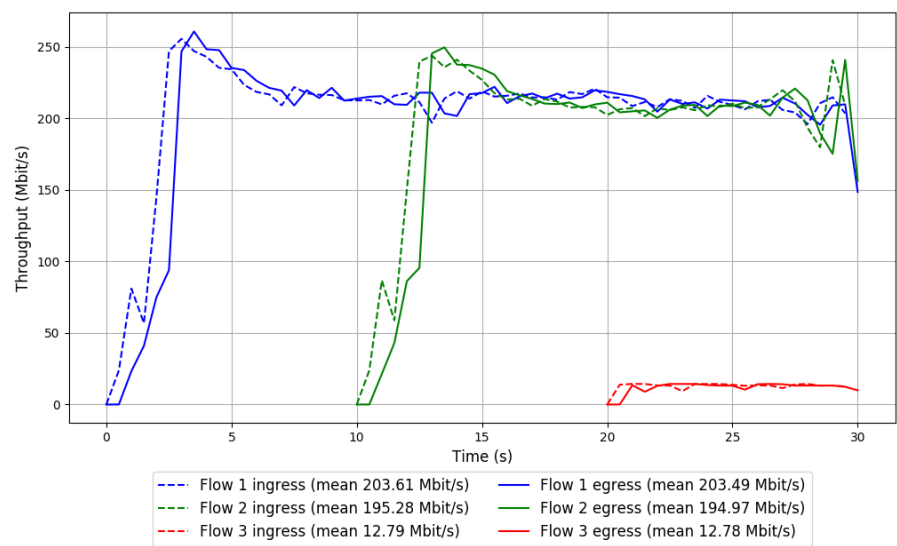
-- Flow 3:

Average throughput: 12.78 Mbit/s

95th percentile per-packet one-way delay: 132.054 ms

Loss rate: 2.78%

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



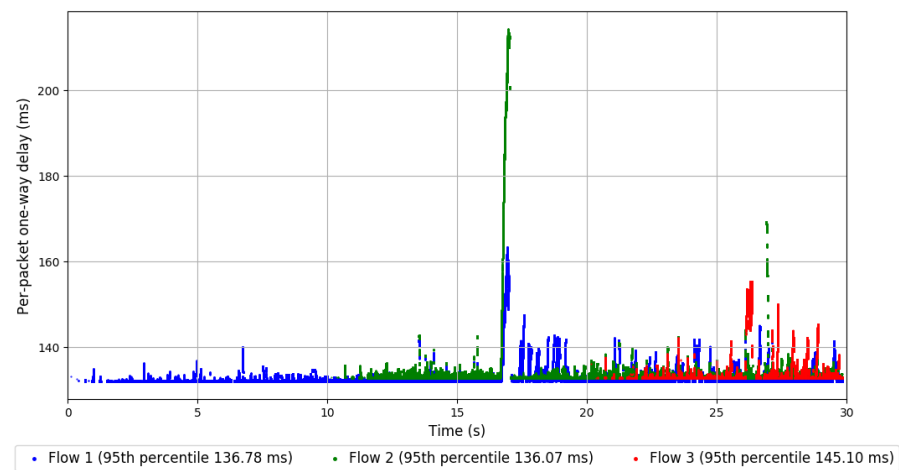
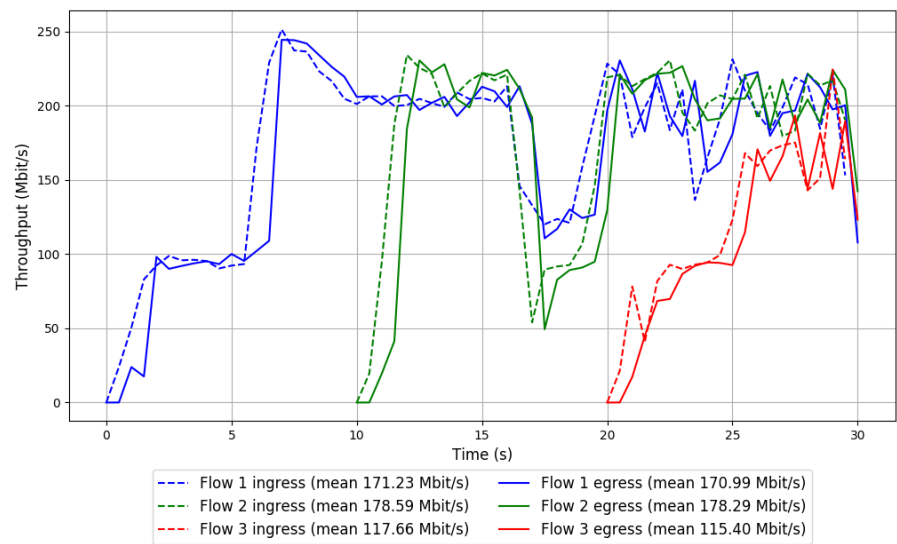


Run 2: Statistics of TaoVA-100x

Start at: 2019-11-24 16:00:41  
End at: 2019-11-24 16:01:11  
Local clock offset: -0.112 ms  
Remote clock offset: -0.045 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 326.82 Mbit/s  
95th percentile per-packet one-way delay: 137.520 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 170.99 Mbit/s  
95th percentile per-packet one-way delay: 136.775 ms  
Loss rate: 1.05%  
-- Flow 2:  
Average throughput: 178.29 Mbit/s  
95th percentile per-packet one-way delay: 136.072 ms  
Loss rate: 1.50%  
-- Flow 3:  
Average throughput: 115.40 Mbit/s  
95th percentile per-packet one-way delay: 145.097 ms  
Loss rate: 4.52%

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

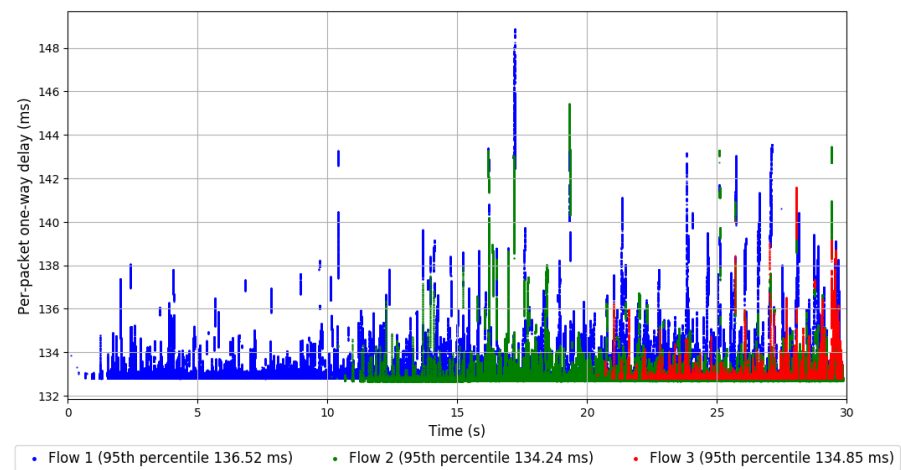
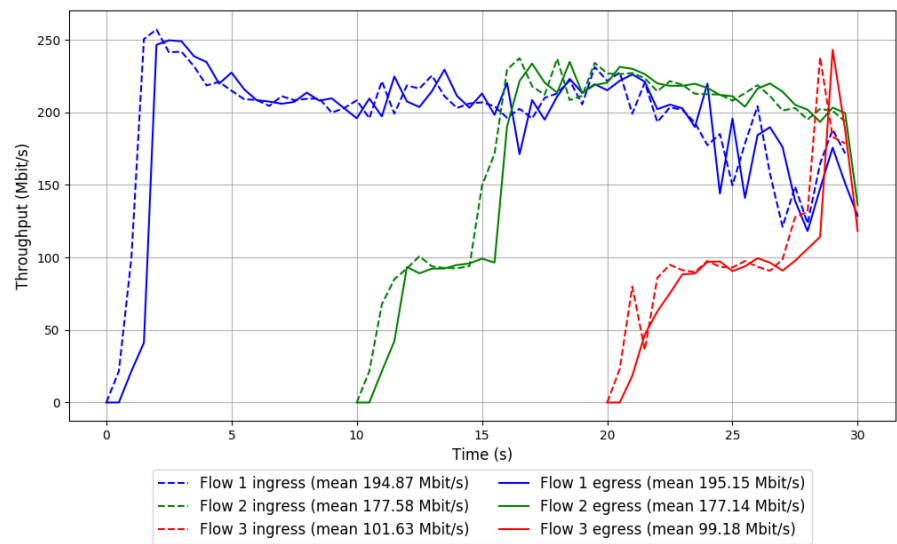


Run 3: Statistics of TaoVA-100x

Start at: 2019-11-24 16:44:08  
End at: 2019-11-24 16:44:38  
Local clock offset: -0.085 ms  
Remote clock offset: -0.076 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 344.42 Mbit/s  
95th percentile per-packet one-way delay: 135.716 ms  
Loss rate: 1.61%  
-- Flow 1:  
Average throughput: 195.15 Mbit/s  
95th percentile per-packet one-way delay: 136.522 ms  
Loss rate: 0.96%  
-- Flow 2:  
Average throughput: 177.14 Mbit/s  
95th percentile per-packet one-way delay: 134.243 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 99.18 Mbit/s  
95th percentile per-packet one-way delay: 134.854 ms  
Loss rate: 5.52%

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

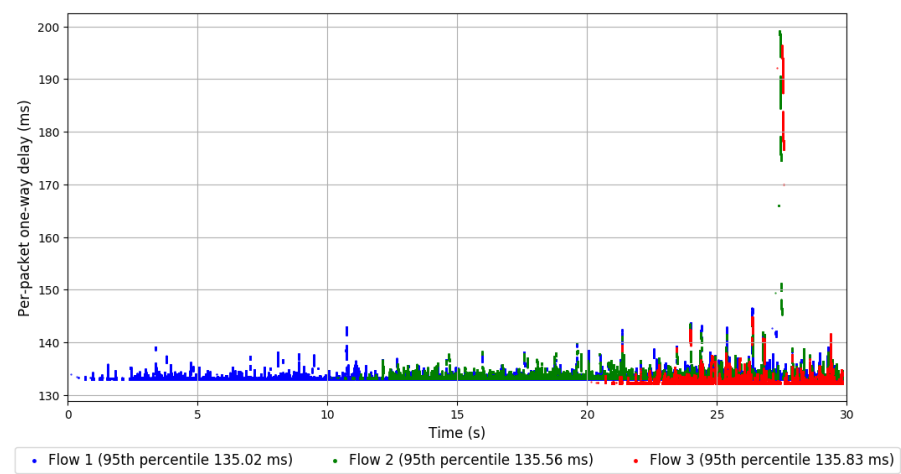
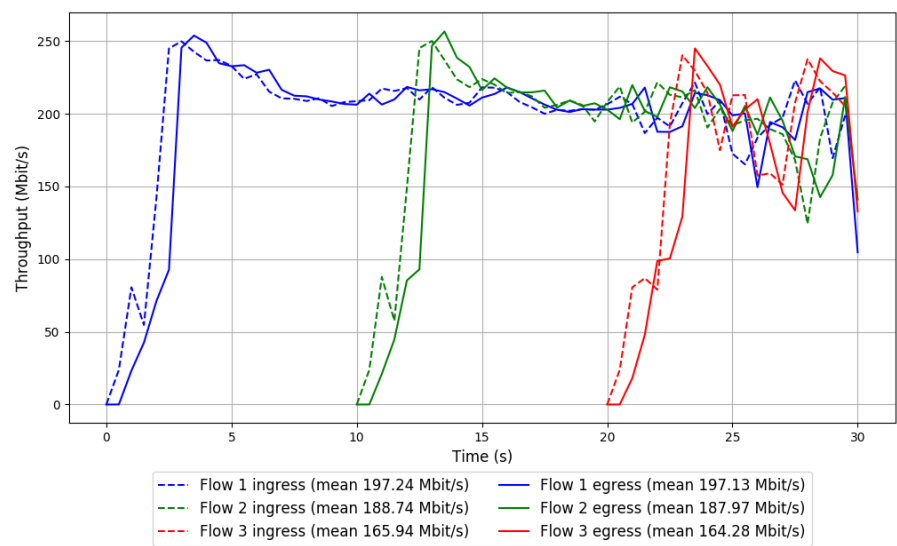


Run 4: Statistics of TaoVA-100x

Start at: 2019-11-24 17:27:19  
End at: 2019-11-24 17:27:49  
Local clock offset: 0.212 ms  
Remote clock offset: -0.041 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 375.35 Mbit/s  
95th percentile per-packet one-way delay: 135.285 ms  
Loss rate: 1.60%  
-- Flow 1:  
Average throughput: 197.13 Mbit/s  
95th percentile per-packet one-way delay: 135.020 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 187.97 Mbit/s  
95th percentile per-packet one-way delay: 135.557 ms  
Loss rate: 1.74%  
-- Flow 3:  
Average throughput: 164.28 Mbit/s  
95th percentile per-packet one-way delay: 135.827 ms  
Loss rate: 3.64%

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

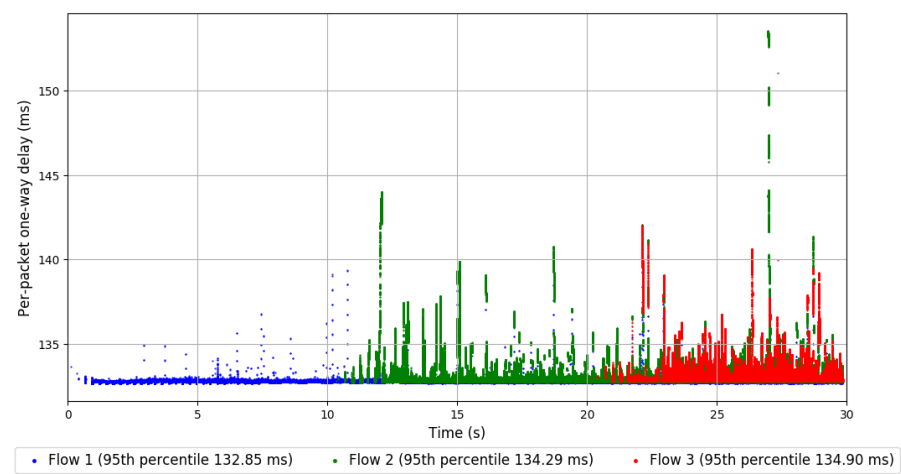
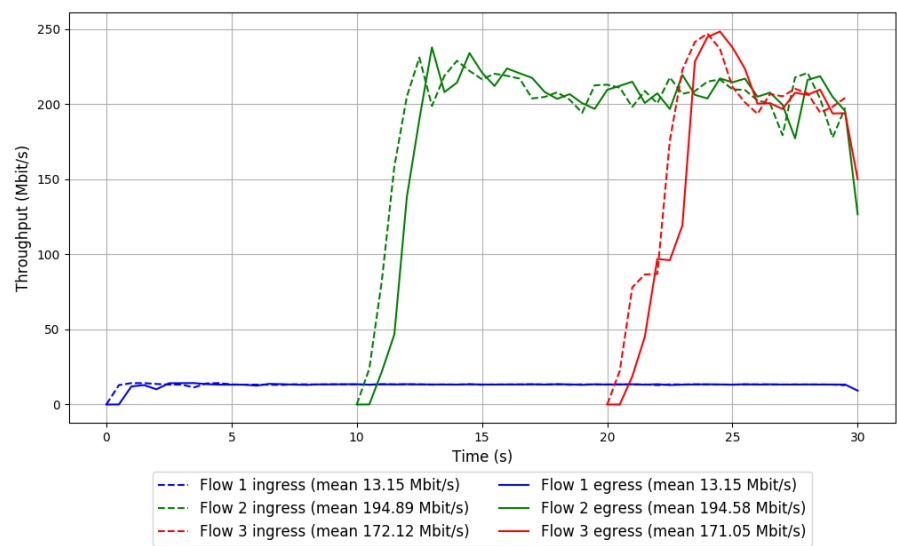


Run 5: Statistics of TaoVA-100x

Start at: 2019-11-24 18:10:29  
End at: 2019-11-24 18:10:59  
Local clock offset: -0.108 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-11-24 20:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 198.01 Mbit/s  
95th percentile per-packet one-way delay: 134.398 ms  
Loss rate: 1.93%  
-- Flow 1:  
Average throughput: 13.15 Mbit/s  
95th percentile per-packet one-way delay: 132.852 ms  
Loss rate: 0.91%  
-- Flow 2:  
Average throughput: 194.58 Mbit/s  
95th percentile per-packet one-way delay: 134.295 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 171.05 Mbit/s  
95th percentile per-packet one-way delay: 134.898 ms  
Loss rate: 3.28%

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





Run 1: Statistics of TCP Vegas

Start at: 2019-11-24 15:03:10

End at: 2019-11-24 15:03:40

Local clock offset: -0.074 ms

Remote clock offset: 0.066 ms

# Below is generated by plot.py at 2019-11-24 20:58:19

# Datalink statistics

-- Total of 3 flows:

Average throughput: 535.19 Mbit/s

95th percentile per-packet one-way delay: 157.372 ms

Loss rate: 1.67%

-- Flow 1:

Average throughput: 245.60 Mbit/s

95th percentile per-packet one-way delay: 182.495 ms

Loss rate: 0.91%

-- Flow 2:

Average throughput: 312.63 Mbit/s

95th percentile per-packet one-way delay: 158.226 ms

Loss rate: 1.64%

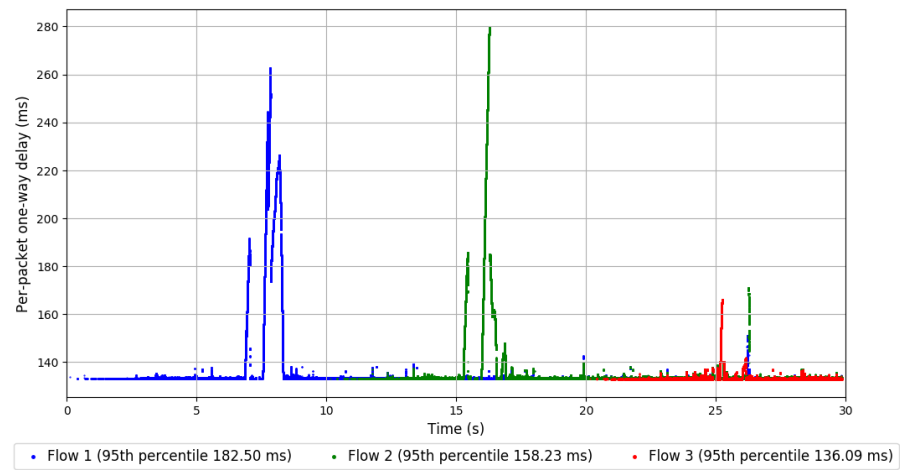
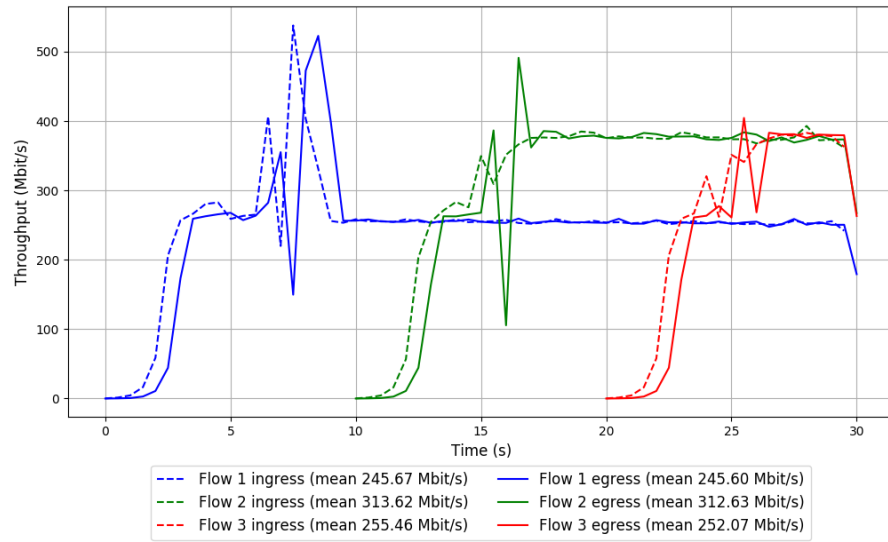
-- Flow 3:

Average throughput: 252.07 Mbit/s

95th percentile per-packet one-way delay: 136.093 ms

Loss rate: 3.96%

# Run 1: Report of TCP Vegas — Data Link

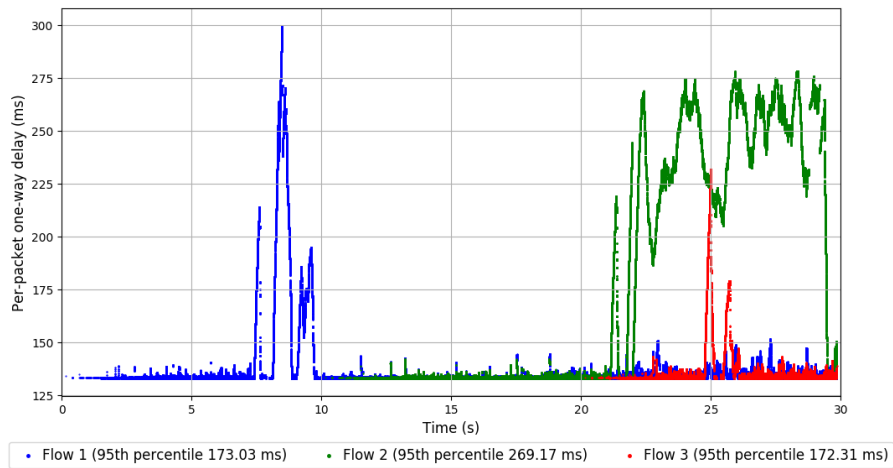
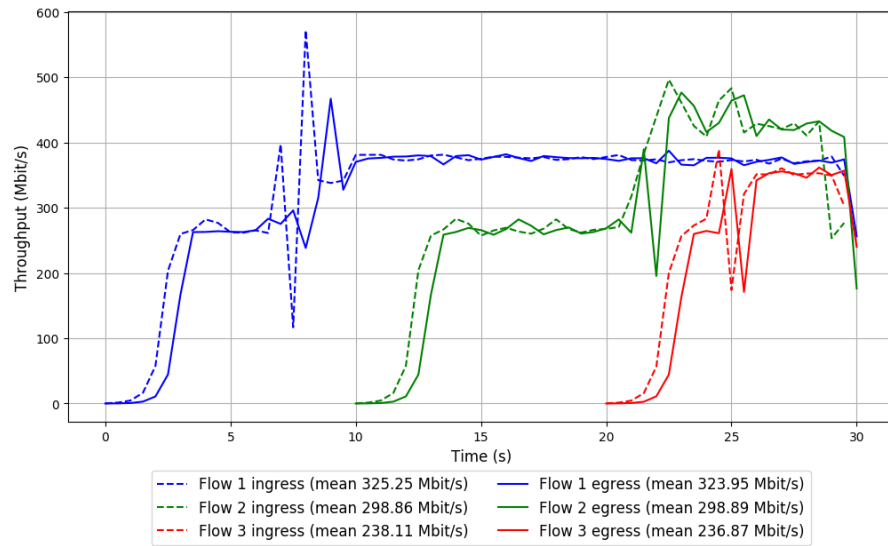


Run 2: Statistics of TCP Vegas

Start at: 2019-11-24 15:46:14  
End at: 2019-11-24 15:46:44  
Local clock offset: -0.06 ms  
Remote clock offset: -0.317 ms

# Below is generated by plot.py at 2019-11-24 21:03:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 599.50 Mbit/s  
95th percentile per-packet one-way delay: 262.620 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 323.95 Mbit/s  
95th percentile per-packet one-way delay: 173.034 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 298.89 Mbit/s  
95th percentile per-packet one-way delay: 269.167 ms  
Loss rate: 1.32%  
-- Flow 3:  
Average throughput: 236.87 Mbit/s  
95th percentile per-packet one-way delay: 172.308 ms  
Loss rate: 3.17%

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

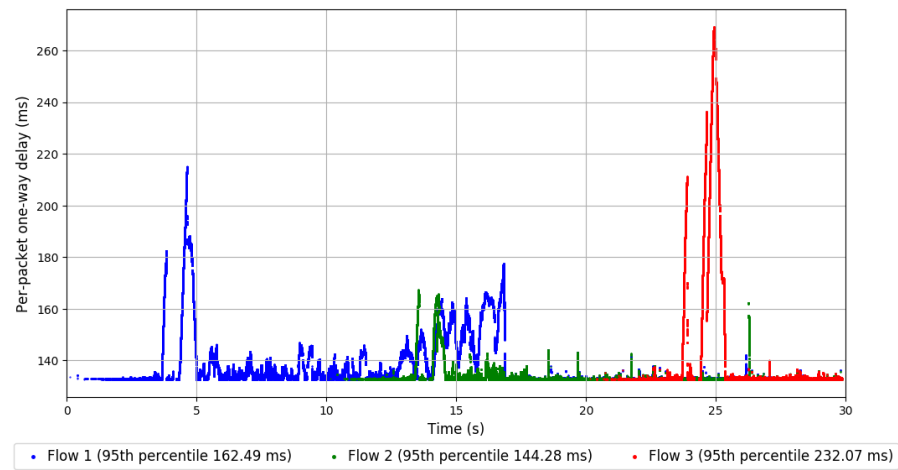
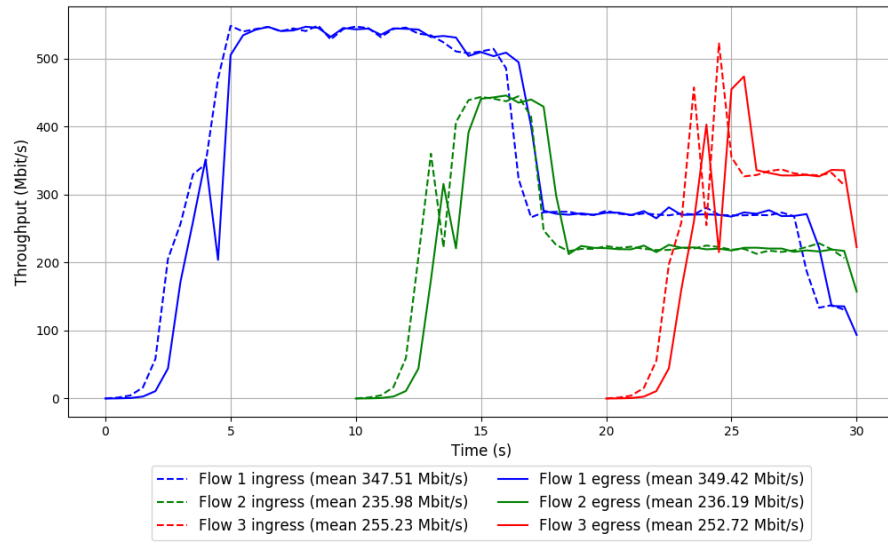


Run 3: Statistics of TCP Vegas

Start at: 2019-11-24 16:29:34  
End at: 2019-11-24 16:30:04  
Local clock offset: -0.092 ms  
Remote clock offset: -0.04 ms

# Below is generated by plot.py at 2019-11-24 21:05:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 588.55 Mbit/s  
95th percentile per-packet one-way delay: 164.020 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 349.42 Mbit/s  
95th percentile per-packet one-way delay: 162.493 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 236.19 Mbit/s  
95th percentile per-packet one-way delay: 144.285 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 252.72 Mbit/s  
95th percentile per-packet one-way delay: 232.068 ms  
Loss rate: 3.62%

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

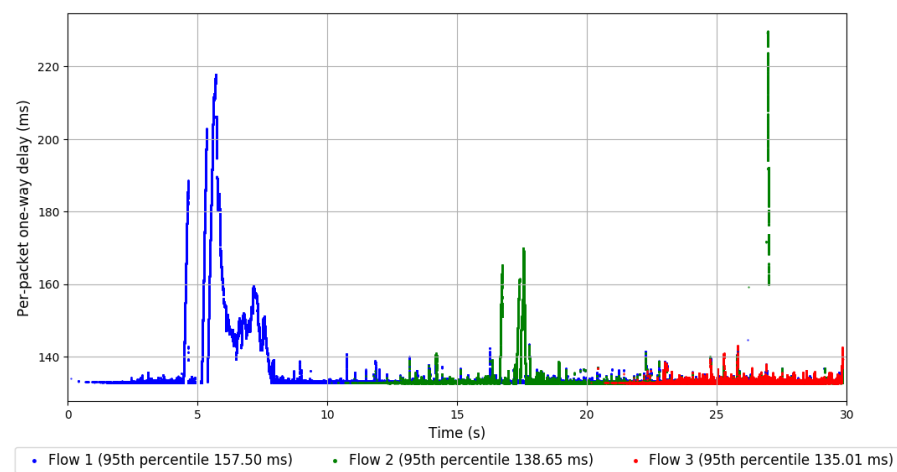
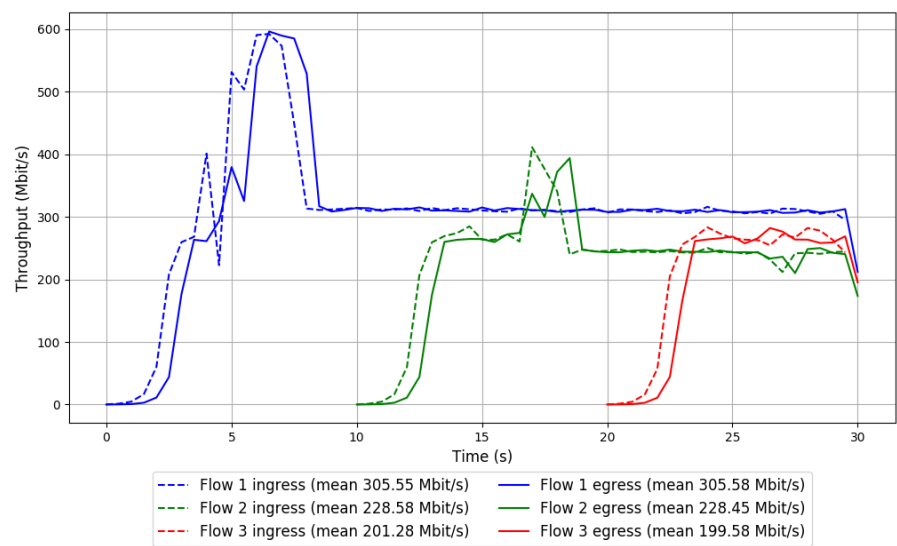


Run 4: Statistics of TCP Vegas

Start at: 2019-11-24 17:12:59  
End at: 2019-11-24 17:13:29  
Local clock offset: -0.108 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-11-24 21:05:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 522.26 Mbit/s  
95th percentile per-packet one-way delay: 152.494 ms  
Loss rate: 1.38%  
-- Flow 1:  
Average throughput: 305.58 Mbit/s  
95th percentile per-packet one-way delay: 157.498 ms  
Loss rate: 0.89%  
-- Flow 2:  
Average throughput: 228.45 Mbit/s  
95th percentile per-packet one-way delay: 138.652 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 199.58 Mbit/s  
95th percentile per-packet one-way delay: 135.015 ms  
Loss rate: 3.52%

Run 4: Report of TCP Vegas — Data Link



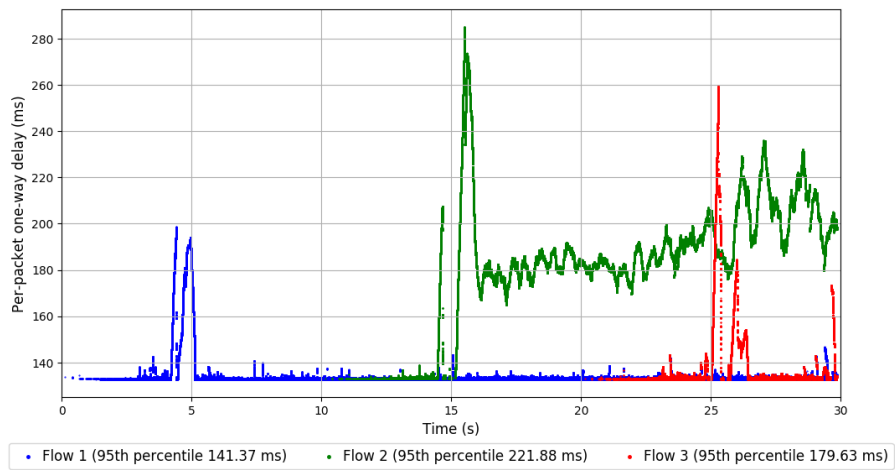
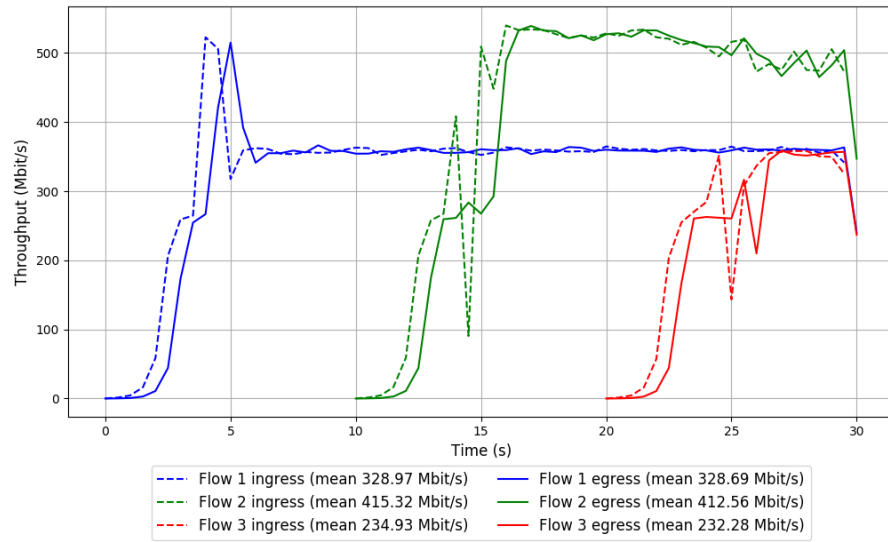


Run 5: Statistics of TCP Vegas

Start at: 2019-11-24 17:55:38  
End at: 2019-11-24 17:56:08  
Local clock offset: -0.152 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-11-24 21:07:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 678.25 Mbit/s  
95th percentile per-packet one-way delay: 211.143 ms  
Loss rate: 1.70%  
-- Flow 1:  
Average throughput: 328.69 Mbit/s  
95th percentile per-packet one-way delay: 141.368 ms  
Loss rate: 0.97%  
-- Flow 2:  
Average throughput: 412.56 Mbit/s  
95th percentile per-packet one-way delay: 221.884 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 232.28 Mbit/s  
95th percentile per-packet one-way delay: 179.627 ms  
Loss rate: 3.77%

# Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2019-11-24 15:15:58

End at: 2019-11-24 15:16:28

Local clock offset: -0.13 ms

Remote clock offset: 0.19 ms

# Below is generated by plot.py at 2019-11-24 21:07:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 98.56 Mbit/s

95th percentile per-packet one-way delay: 229.462 ms

Loss rate: 2.15%

-- Flow 1:

Average throughput: 44.91 Mbit/s

95th percentile per-packet one-way delay: 257.328 ms

Loss rate: 2.83%

-- Flow 2:

Average throughput: 65.48 Mbit/s

95th percentile per-packet one-way delay: 186.836 ms

Loss rate: 1.53%

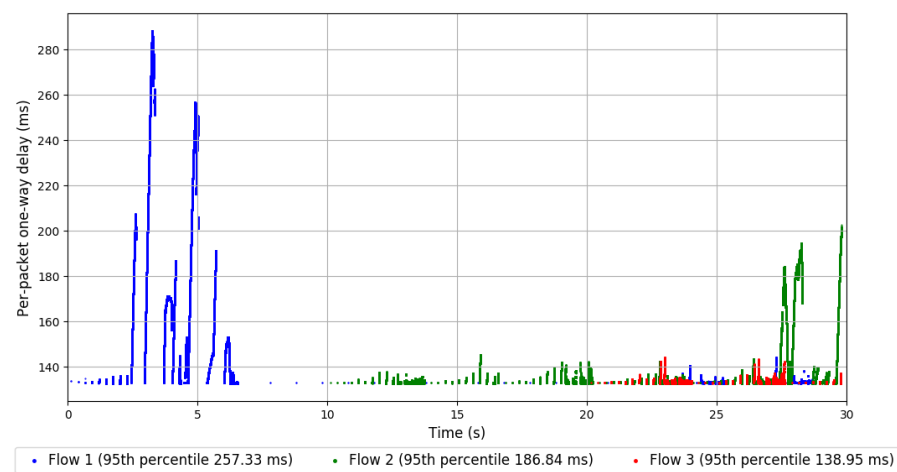
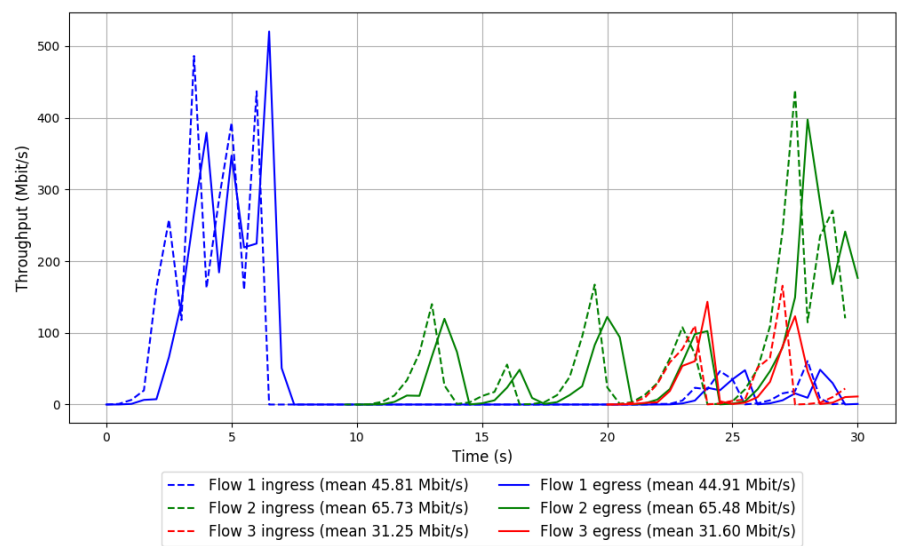
-- Flow 3:

Average throughput: 31.60 Mbit/s

95th percentile per-packet one-way delay: 138.947 ms

Loss rate: 1.78%

Run 1: Report of Verus — Data Link

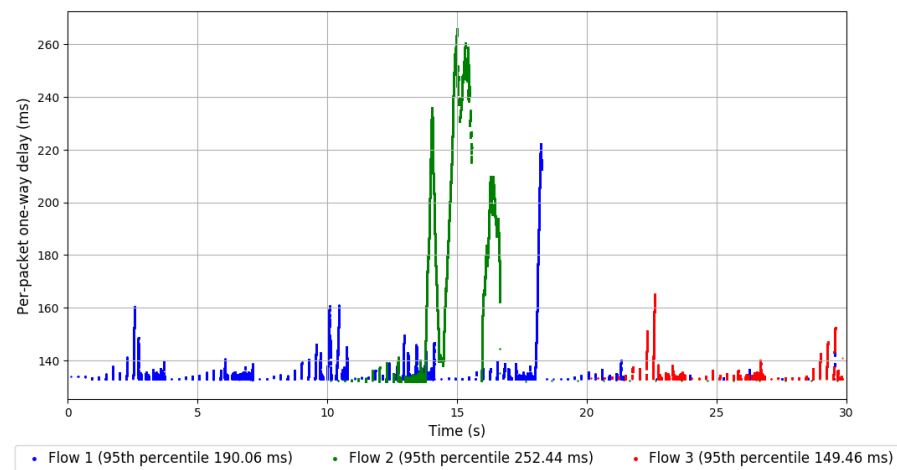
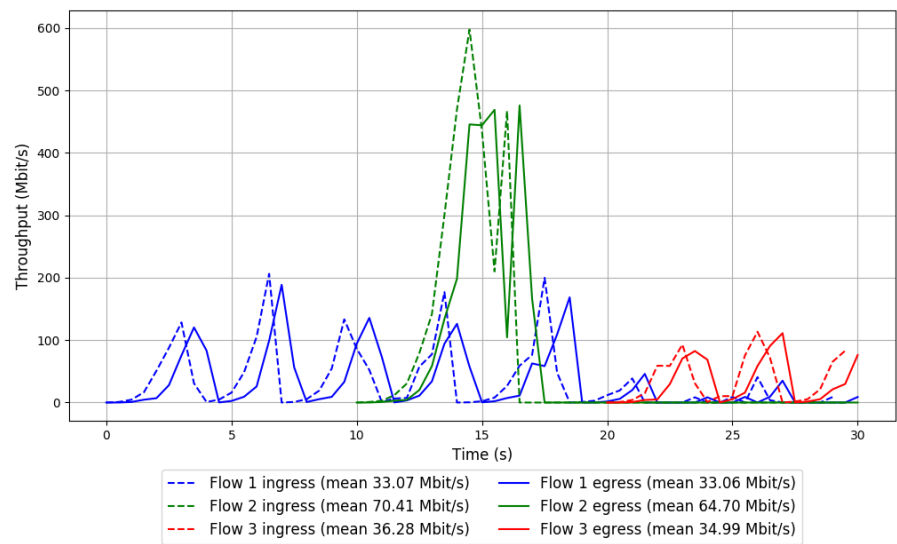


Run 2: Statistics of Verus

Start at: 2019-11-24 15:59:13  
End at: 2019-11-24 15:59:43  
Local clock offset: -0.056 ms  
Remote clock offset: -0.029 ms

# Below is generated by plot.py at 2019-11-24 21:07:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.66 Mbit/s  
95th percentile per-packet one-way delay: 248.498 ms  
Loss rate: 4.90%  
-- Flow 1:  
Average throughput: 33.06 Mbit/s  
95th percentile per-packet one-way delay: 190.057 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 64.70 Mbit/s  
95th percentile per-packet one-way delay: 252.437 ms  
Loss rate: 8.10%  
-- Flow 3:  
Average throughput: 34.99 Mbit/s  
95th percentile per-packet one-way delay: 149.457 ms  
Loss rate: 5.92%

Run 2: Report of Verus — Data Link

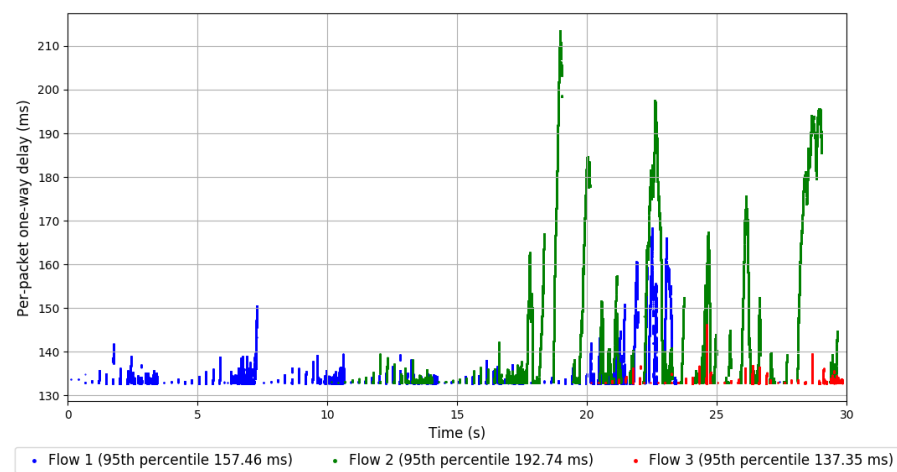
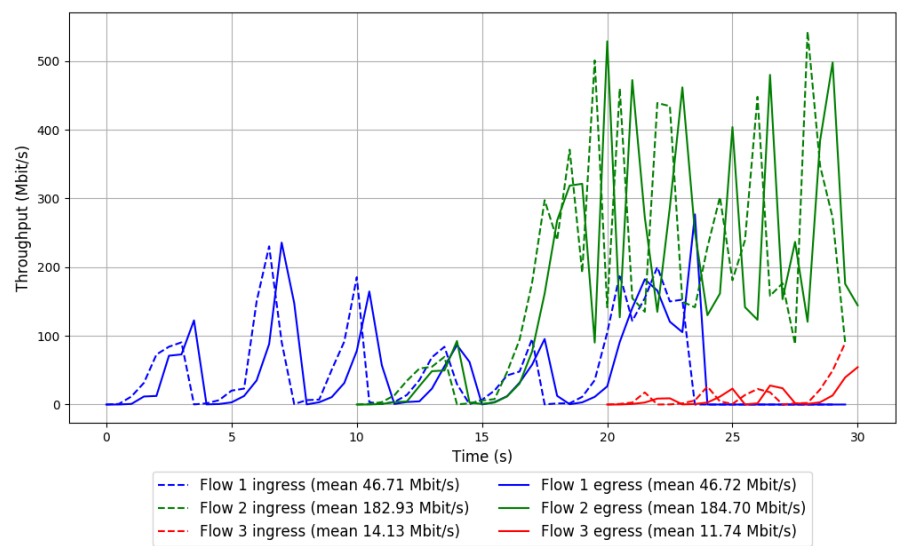


Run 3: Statistics of Verus

Start at: 2019-11-24 16:42:31  
End at: 2019-11-24 16:43:01  
Local clock offset: -0.068 ms  
Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 21:07:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 171.17 Mbit/s  
95th percentile per-packet one-way delay: 190.692 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 46.72 Mbit/s  
95th percentile per-packet one-way delay: 157.457 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 184.70 Mbit/s  
95th percentile per-packet one-way delay: 192.739 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 11.74 Mbit/s  
95th percentile per-packet one-way delay: 137.348 ms  
Loss rate: 19.17%

Run 3: Report of Verus — Data Link



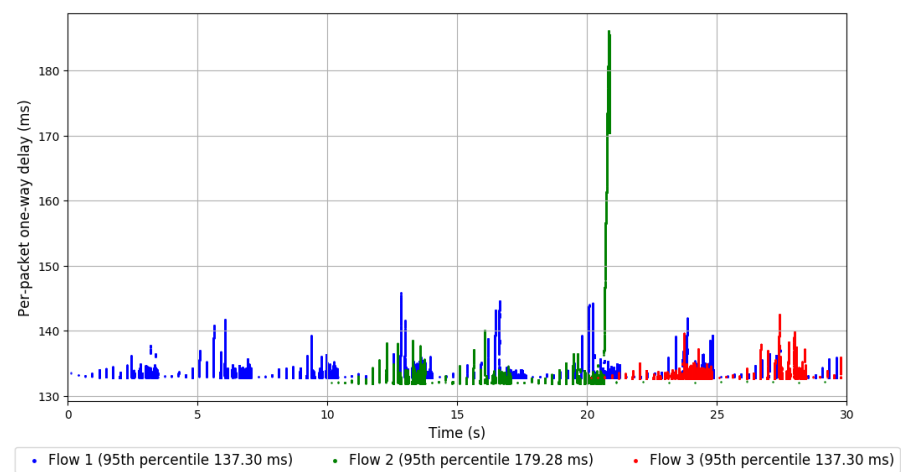
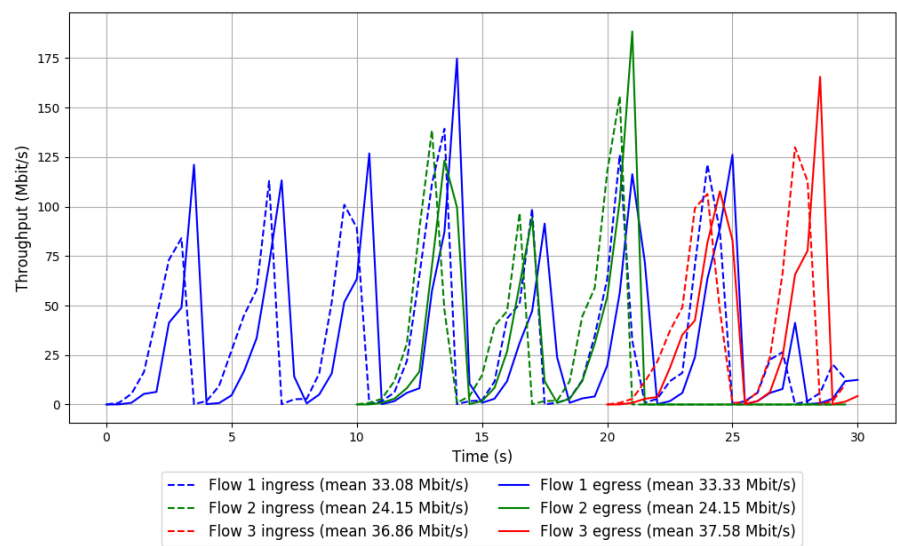


Run 4: Statistics of Verus

Start at: 2019-11-24 17:25:53  
End at: 2019-11-24 17:26:23  
Local clock offset: -0.147 ms  
Remote clock offset: -0.047 ms

# Below is generated by plot.py at 2019-11-24 21:07:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 60.82 Mbit/s  
95th percentile per-packet one-way delay: 140.568 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 33.33 Mbit/s  
95th percentile per-packet one-way delay: 137.304 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 24.15 Mbit/s  
95th percentile per-packet one-way delay: 179.283 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 37.58 Mbit/s  
95th percentile per-packet one-way delay: 137.300 ms  
Loss rate: 0.82%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2019-11-24 18:09:03

End at: 2019-11-24 18:09:33

Local clock offset: 0.199 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-11-24 21:07:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 191.996 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 22.94 Mbit/s

95th percentile per-packet one-way delay: 190.376 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 205.302 ms

Loss rate: 0.00%

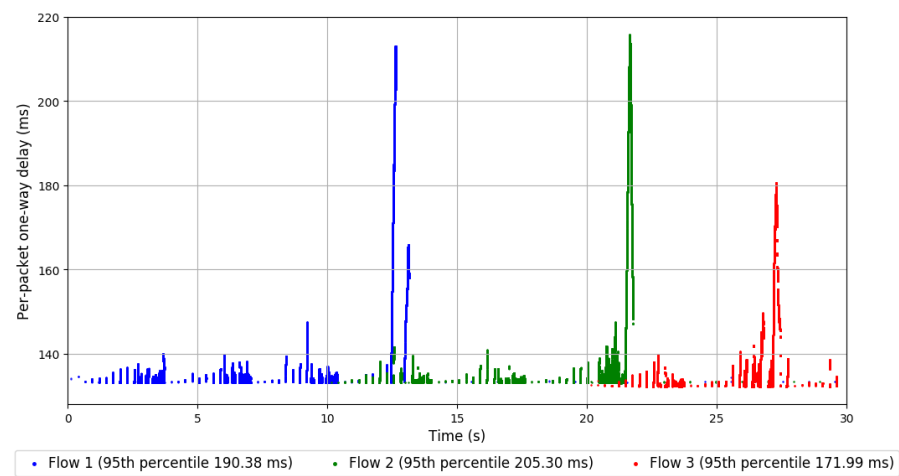
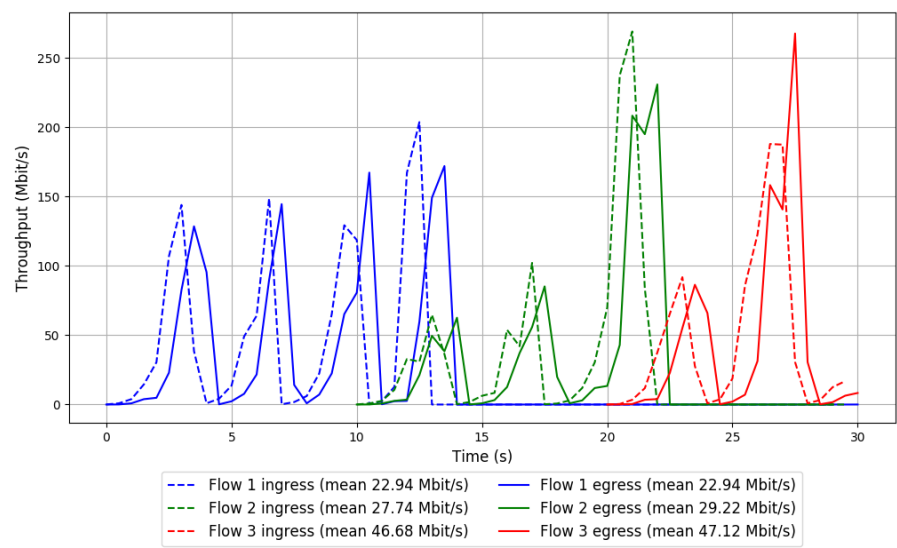
-- Flow 3:

Average throughput: 47.12 Mbit/s

95th percentile per-packet one-way delay: 171.990 ms

Loss rate: 1.86%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-11-24 15:20:43

End at: 2019-11-24 15:21:13

Local clock offset: 0.242 ms

Remote clock offset: 0.443 ms

# Below is generated by plot.py at 2019-11-24 21:07:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 402.48 Mbit/s

95th percentile per-packet one-way delay: 134.106 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 258.49 Mbit/s

95th percentile per-packet one-way delay: 134.547 ms

Loss rate: 0.61%

-- Flow 2:

Average throughput: 185.44 Mbit/s

95th percentile per-packet one-way delay: 134.024 ms

Loss rate: 2.27%

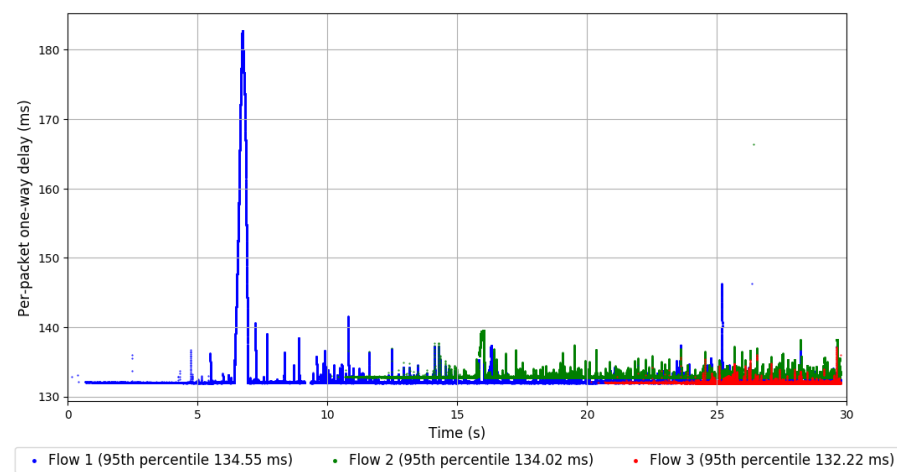
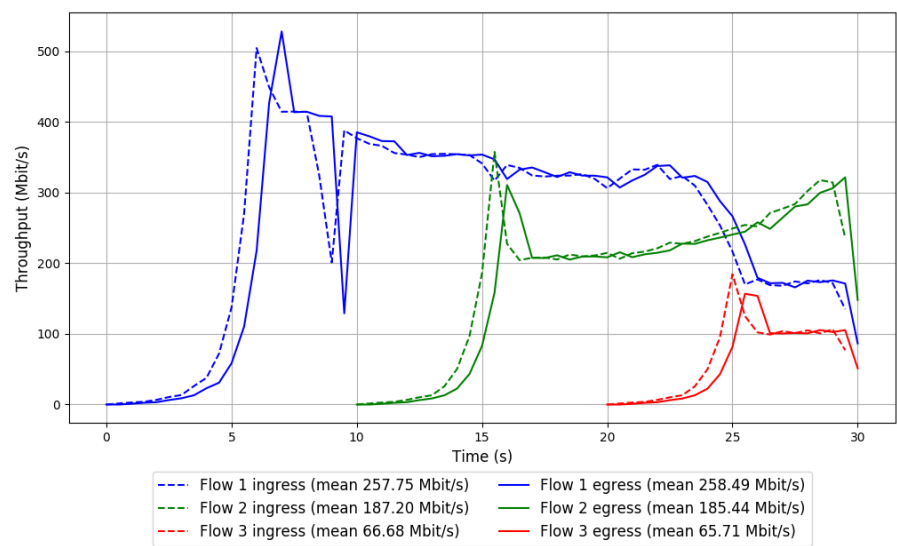
-- Flow 3:

Average throughput: 65.71 Mbit/s

95th percentile per-packet one-way delay: 132.221 ms

Loss rate: 4.07%

Run 1: Report of PCC-Vivace — Data Link

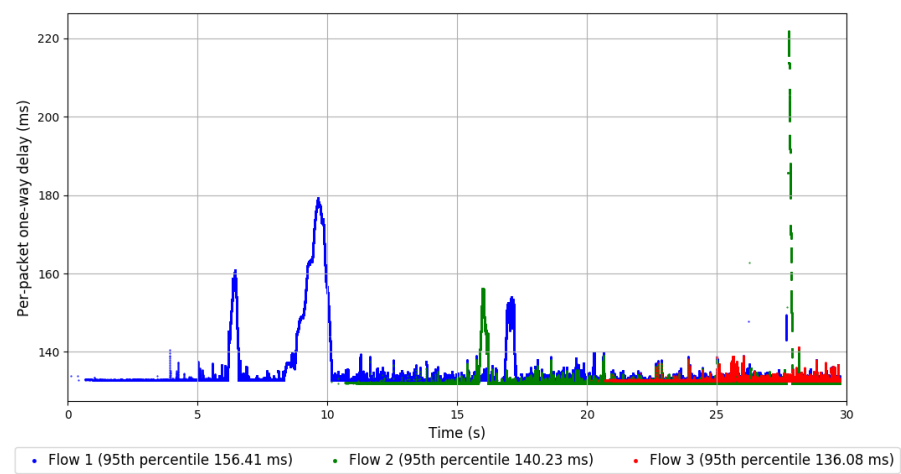
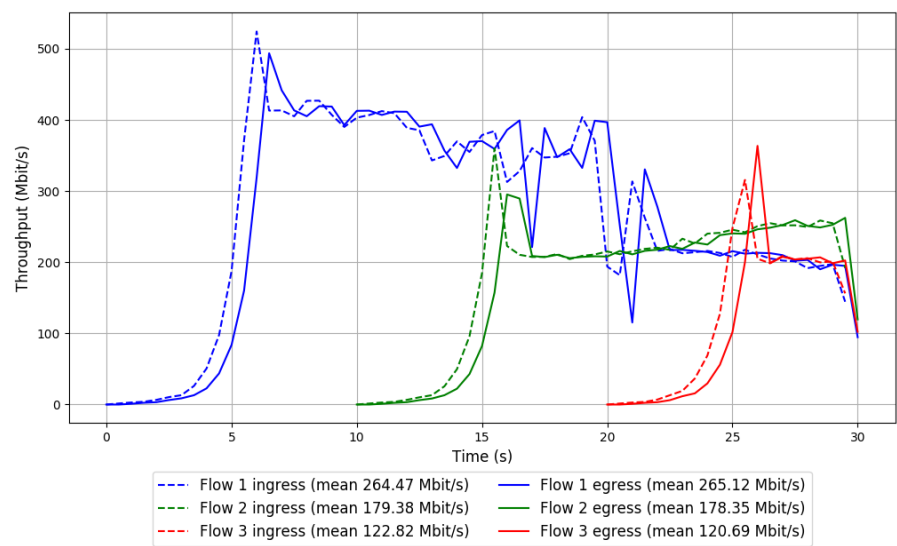


Run 2: Statistics of PCC-Vivace

Start at: 2019-11-24 16:03:57  
End at: 2019-11-24 16:04:27  
Local clock offset: -0.105 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-11-24 21:07:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 422.31 Mbit/s  
95th percentile per-packet one-way delay: 150.507 ms  
Loss rate: 1.36%  
-- Flow 1:  
Average throughput: 265.12 Mbit/s  
95th percentile per-packet one-way delay: 156.411 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 178.35 Mbit/s  
95th percentile per-packet one-way delay: 140.232 ms  
Loss rate: 1.91%  
-- Flow 3:  
Average throughput: 120.69 Mbit/s  
95th percentile per-packet one-way delay: 136.077 ms  
Loss rate: 4.40%

Run 2: Report of PCC-Vivace — Data Link



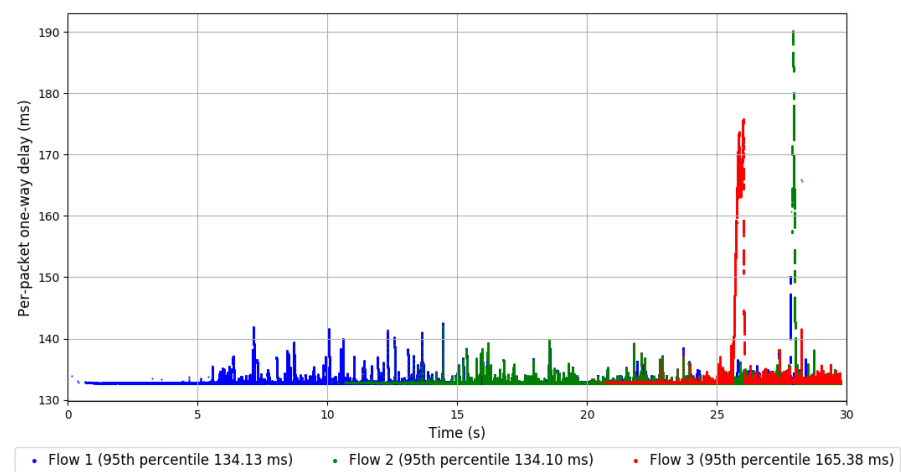
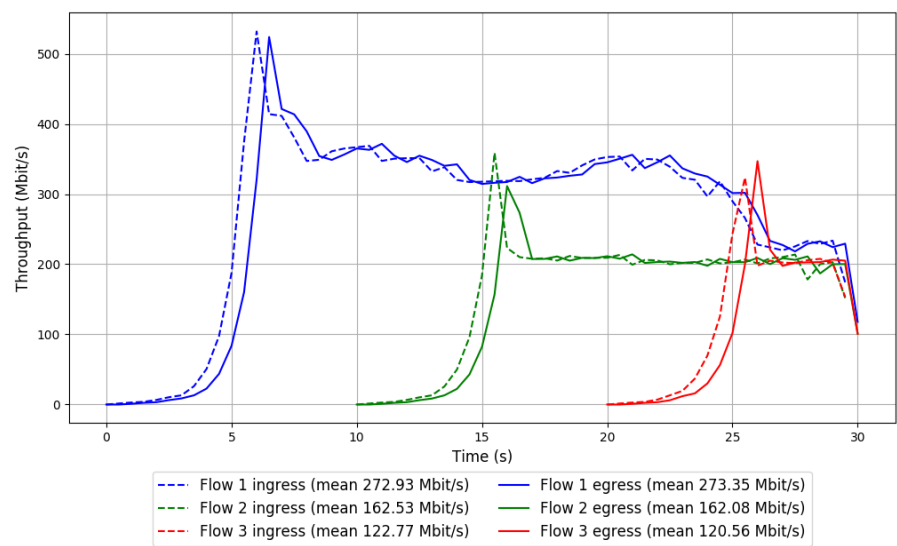


Run 3: Statistics of PCC-Vivace

Start at: 2019-11-24 16:47:26  
End at: 2019-11-24 16:47:56  
Local clock offset: -0.064 ms  
Remote clock offset: -0.065 ms

# Below is generated by plot.py at 2019-11-24 21:08:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 419.73 Mbit/s  
95th percentile per-packet one-way delay: 134.597 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 273.35 Mbit/s  
95th percentile per-packet one-way delay: 134.128 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 162.08 Mbit/s  
95th percentile per-packet one-way delay: 134.102 ms  
Loss rate: 1.61%  
-- Flow 3:  
Average throughput: 120.56 Mbit/s  
95th percentile per-packet one-way delay: 165.385 ms  
Loss rate: 4.44%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2019-11-24 17:30:40

End at: 2019-11-24 17:31:10

Local clock offset: -0.159 ms

Remote clock offset: -0.07 ms

# Below is generated by plot.py at 2019-11-24 21:08:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 407.32 Mbit/s

95th percentile per-packet one-way delay: 150.612 ms

Loss rate: 1.20%

-- Flow 1:

Average throughput: 268.87 Mbit/s

95th percentile per-packet one-way delay: 155.772 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 176.89 Mbit/s

95th percentile per-packet one-way delay: 137.031 ms

Loss rate: 1.64%

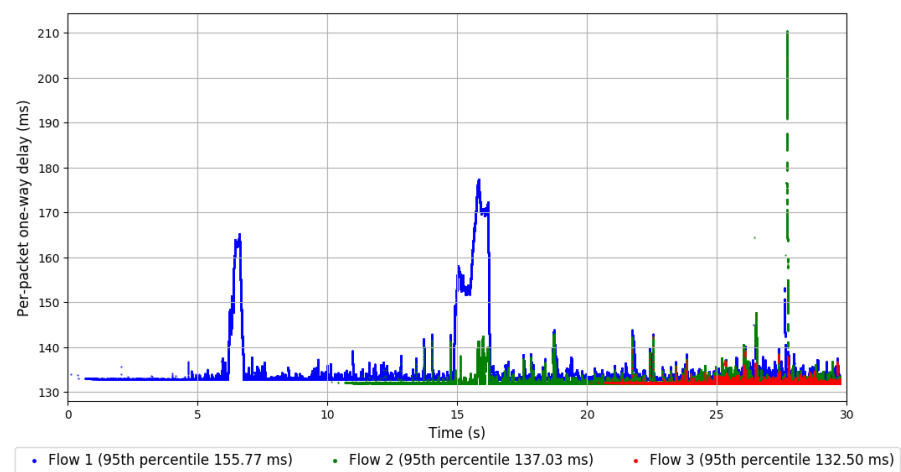
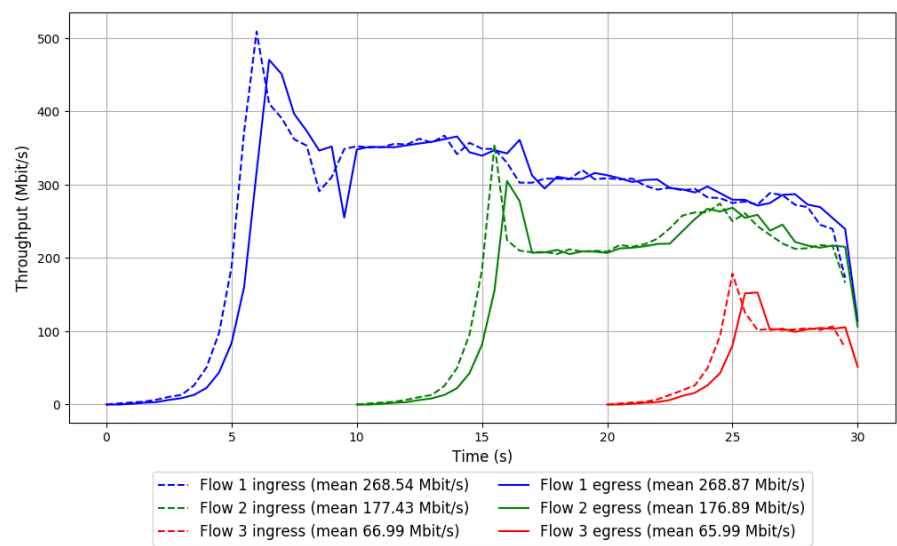
-- Flow 3:

Average throughput: 65.99 Mbit/s

95th percentile per-packet one-way delay: 132.505 ms

Loss rate: 4.13%

Run 4: Report of PCC-Vivace — Data Link



Run 5: Statistics of PCC-Vivace

Start at: 2019-11-24 18:13:30

End at: 2019-11-24 18:14:00

Local clock offset: -0.067 ms

Remote clock offset: 0.351 ms

# Below is generated by plot.py at 2019-11-24 21:08:50

# Datalink statistics

-- Total of 3 flows:

Average throughput: 415.08 Mbit/s

95th percentile per-packet one-way delay: 188.120 ms

Loss rate: 2.60%

-- Flow 1:

Average throughput: 256.78 Mbit/s

95th percentile per-packet one-way delay: 293.782 ms

Loss rate: 2.58%

-- Flow 2:

Average throughput: 182.78 Mbit/s

95th percentile per-packet one-way delay: 141.616 ms

Loss rate: 1.98%

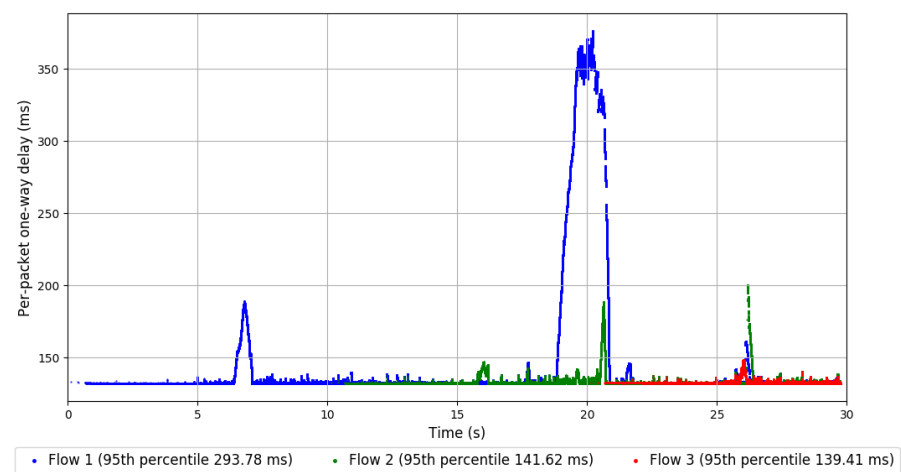
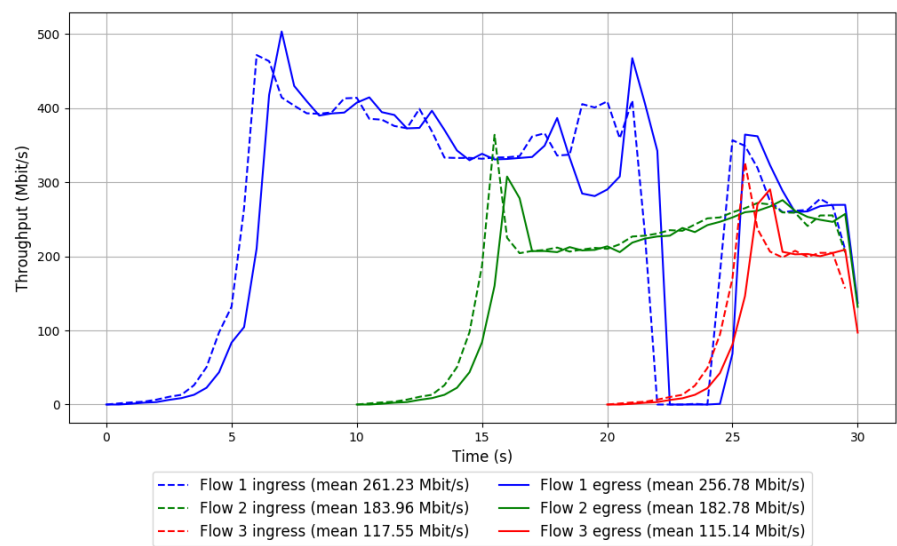
-- Flow 3:

Average throughput: 115.14 Mbit/s

95th percentile per-packet one-way delay: 139.409 ms

Loss rate: 4.70%

Run 5: Report of PCC-Vivace — Data Link

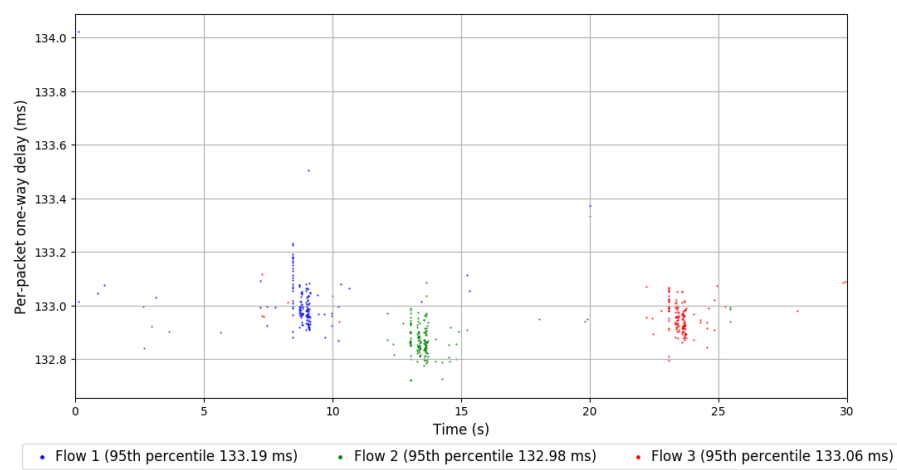
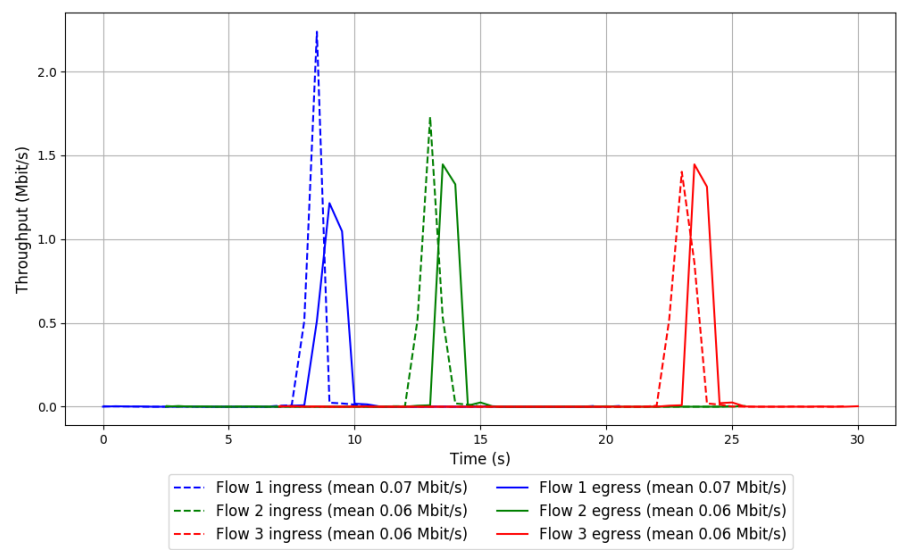


Run 1: Statistics of WebRTC media

Start at: 2019-11-24 14:56:55  
End at: 2019-11-24 14:57:25  
Local clock offset: -0.133 ms  
Remote clock offset: -0.042 ms

# Below is generated by plot.py at 2019-11-24 21:08:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 133.090 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 133.191 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 132.976 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.06 Mbit/s  
95th percentile per-packet one-way delay: 133.058 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



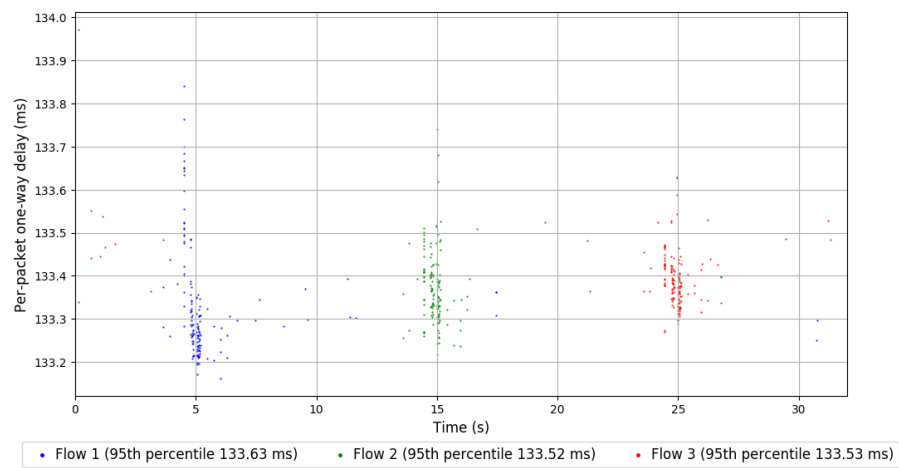
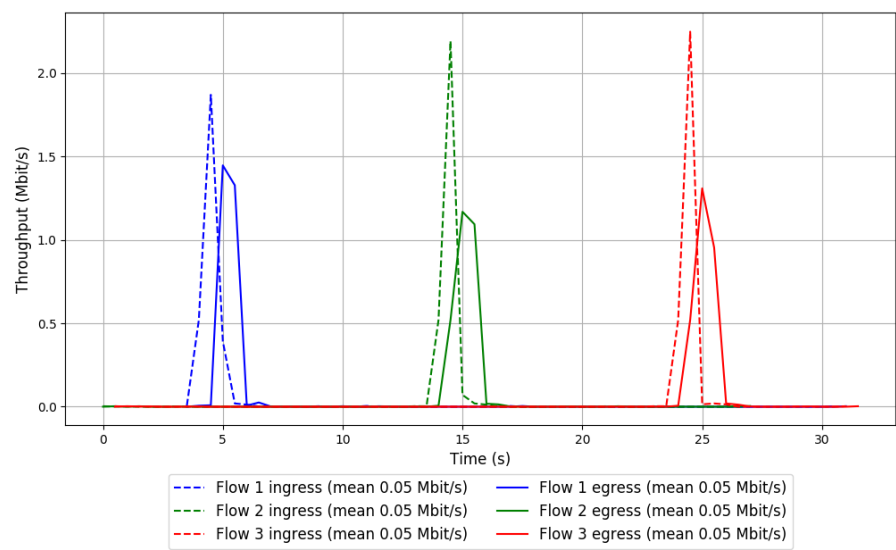


Run 2: Statistics of WebRTC media

Start at: 2019-11-24 15:39:54  
End at: 2019-11-24 15:40:24  
Local clock offset: -0.078 ms  
Remote clock offset: -0.406 ms

# Below is generated by plot.py at 2019-11-24 21:08:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 133.529 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.634 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.516 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.529 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

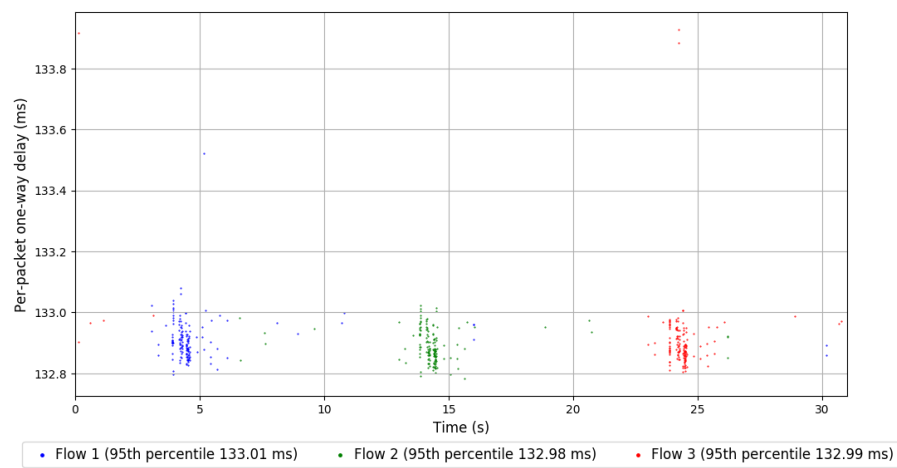
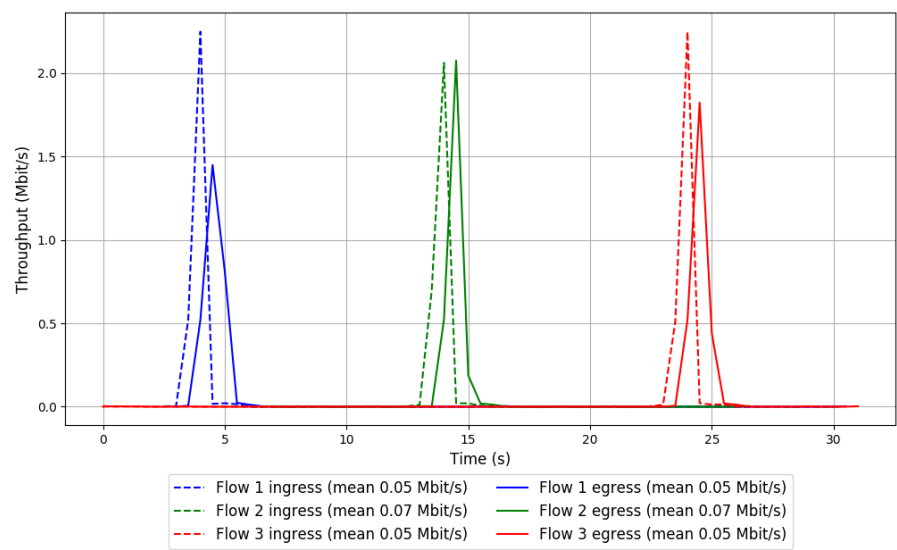


Run 3: Statistics of WebRTC media

Start at: 2019-11-24 16:23:27  
End at: 2019-11-24 16:23:57  
Local clock offset: -0.116 ms  
Remote clock offset: -0.064 ms

# Below is generated by plot.py at 2019-11-24 21:08:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 132.997 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.006 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 132.981 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.988 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

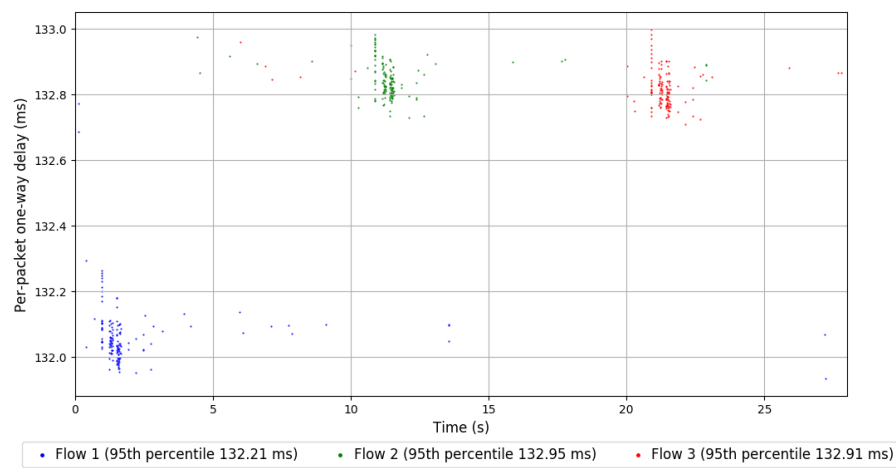
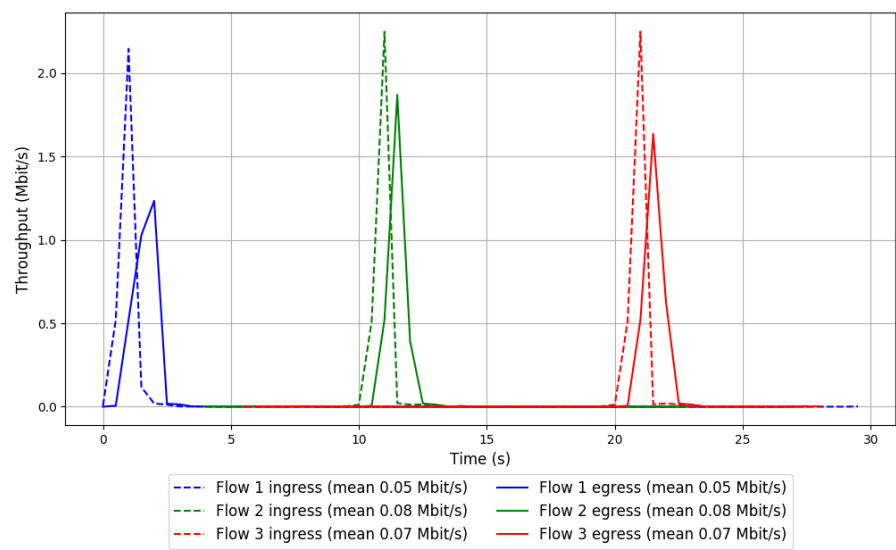


Run 4: Statistics of WebRTC media

Start at: 2019-11-24 17:06:37  
End at: 2019-11-24 17:07:07  
Local clock offset: -0.103 ms  
Remote clock offset: -0.021 ms

```
# Below is generated by plot.py at 2019-11-24 21:08:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 132.918 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 132.214 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 132.951 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 132.912 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-11-24 17:49:14  
End at: 2019-11-24 17:49:44  
Local clock offset: -0.096 ms  
Remote clock offset: -0.043 ms

# Below is generated by plot.py at 2019-11-24 21:08:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 133.098 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.132 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.07 Mbit/s  
95th percentile per-packet one-way delay: 132.950 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 133.032 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

