

## Pantheon Report

Generated at 2019-10-03 05:30:01 (UTC).

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

Repeated the test of 24 congestion control schemes 5 times.

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

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

### System info:

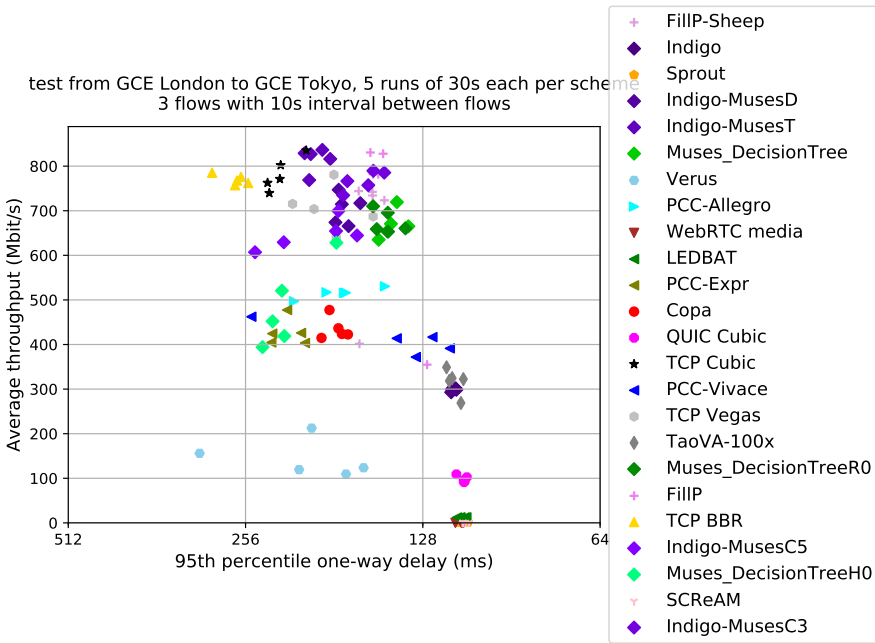
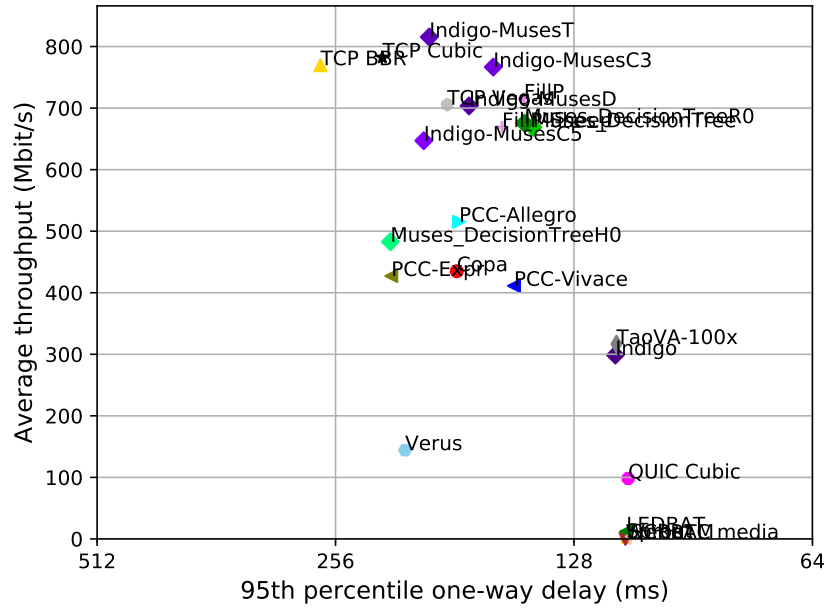
```
Linux 4.15.0-1044-gcp
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ de42328552b3776a75a932a94dfafd722537b0ec
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/muses_dtree @ 387225f7b5f61ddbe92d708a8869ffbb84eb3200
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	419.04	374.21	311.87	257.27	268.74	248.10	4.95	6.38	7.40
Copa	5	229.24	222.85	176.60	220.23	168.04	191.09	0.82	1.23	2.63
TCP Cubic	5	427.42	389.66	293.49	216.12	227.49	220.86	0.90	1.53	3.56
FillP	5	421.64	330.78	228.39	161.37	120.58	115.40	2.17	0.97	2.86
FillP-Sheep	5	381.20	319.60	233.12	169.00	118.48	114.43	2.57	0.93	2.44
Indigo	5	155.13	150.66	131.55	112.27	114.48	112.90	0.78	1.21	2.74
Indigo-MusesC3	5	450.76	383.40	280.50	167.11	151.04	121.03	0.52	0.95	3.30
Indigo-MusesC5	5	380.71	340.08	187.49	180.76	215.29	146.33	0.55	1.75	7.48
Indigo-MusesD	5	411.66	389.65	169.87	177.14	160.06	125.68	0.60	1.19	4.08
Indigo-MusesT	5	493.18	411.50	238.59	199.74	179.49	131.80	1.01	1.36	3.96
LEDBAT	5	7.91	5.24	2.54	109.15	108.80	108.59	1.45	2.18	4.36
Muses_DecisionTree	5	398.18	320.28	190.54	144.78	140.09	146.03	0.70	1.20	3.57
Muses_DecisionTreeH0	5	270.57	219.25	218.46	218.10	222.87	152.65	5.96	5.02	1.55
Muses_DecisionTreeR0	5	400.43	322.52	200.87	151.03	144.36	129.13	0.81	1.06	3.40
PCC-Allegro	5	279.73	251.93	211.74	157.39	185.98	213.68	2.09	3.02	4.19
PCC-Expr	5	239.71	206.93	154.73	203.44	160.95	217.76	2.71	1.76	4.31
QUIC Cubic	5	56.72	44.86	33.49	108.15	108.45	107.71	0.89	1.85	1.31
SCReAM	5	0.22	0.22	0.22	107.66	107.58	107.89	0.64	1.17	2.22
Sprout	5	0.58	0.97	1.01	107.08	108.93	108.37	0.74	0.95	2.29
TaoVA-100x	5	198.85	143.96	68.19	111.33	114.76	111.00	0.60	0.97	1.83
TCP Vegas	5	366.00	371.23	284.16	138.16	184.27	216.79	0.68	1.15	3.90
Verus	5	68.96	76.14	78.65	172.53	205.70	198.32	1.35	0.67	5.69
PCC-Vivace	5	246.54	191.20	116.65	139.57	152.06	200.64	1.20	1.56	3.79
WebRTC media	5	0.06	0.07	0.05	108.98	108.90	108.27	0.01	0.01	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-10-02 22:58:26

End at: 2019-10-02 22:58:56

Local clock offset: 0.484 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-10-03 02:46:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 757.18 Mbit/s

95th percentile per-packet one-way delay: 266.723 ms

Loss rate: 5.55%

-- Flow 1:

Average throughput: 424.09 Mbit/s

95th percentile per-packet one-way delay: 256.628 ms

Loss rate: 4.46%

-- Flow 2:

Average throughput: 343.49 Mbit/s

95th percentile per-packet one-way delay: 292.708 ms

Loss rate: 6.23%

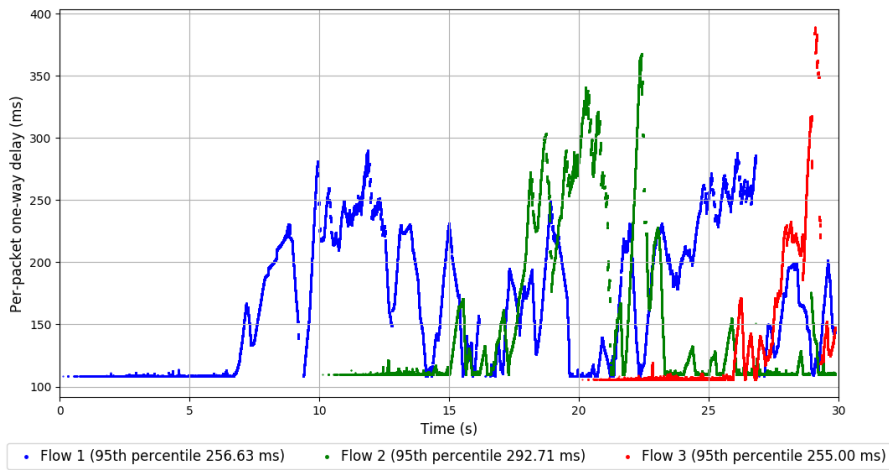
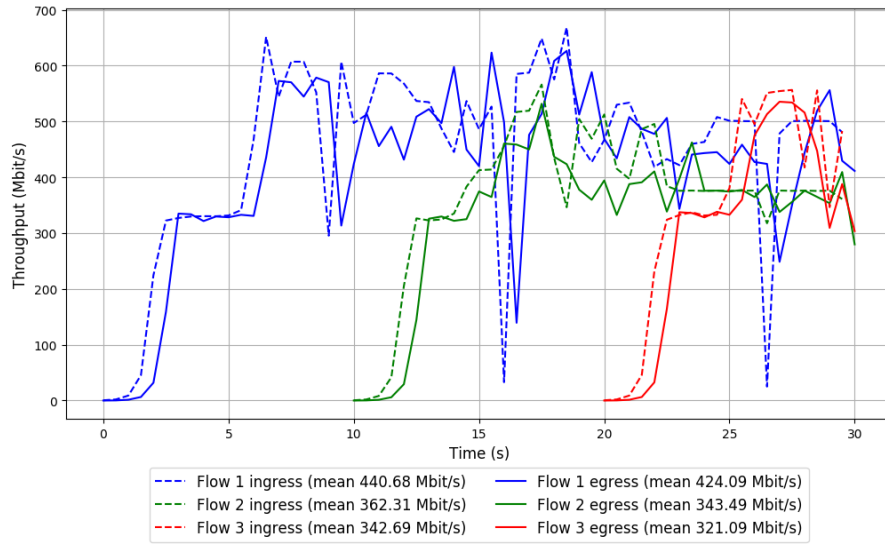
-- Flow 3:

Average throughput: 321.09 Mbit/s

95th percentile per-packet one-way delay: 255.004 ms

Loss rate: 8.33%

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



Run 2: Statistics of TCP BBR

Start at: 2019-10-02 23:41:16

End at: 2019-10-02 23:41:46

Local clock offset: -0.424 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-10-03 02:46:35

# Datalink statistics

-- Total of 3 flows:

Average throughput: 762.23 Mbit/s

95th percentile per-packet one-way delay: 253.435 ms

Loss rate: 4.82%

-- Flow 1:

Average throughput: 402.19 Mbit/s

95th percentile per-packet one-way delay: 254.089 ms

Loss rate: 4.26%

-- Flow 2:

Average throughput: 382.22 Mbit/s

95th percentile per-packet one-way delay: 257.361 ms

Loss rate: 6.20%

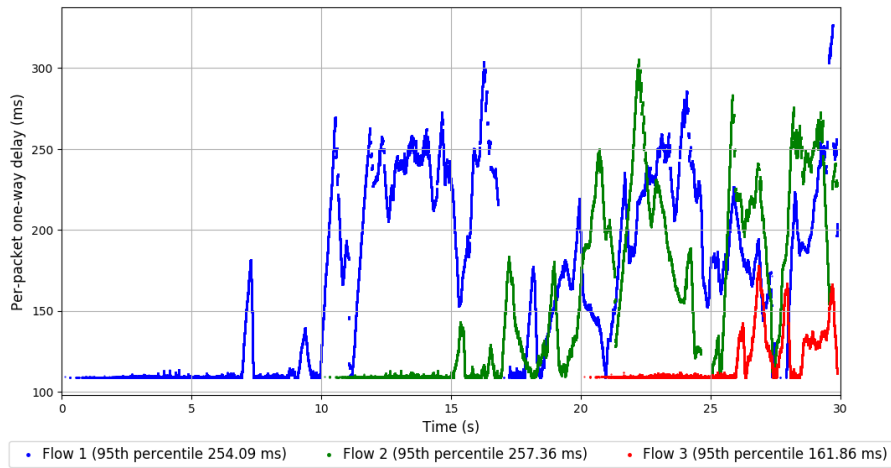
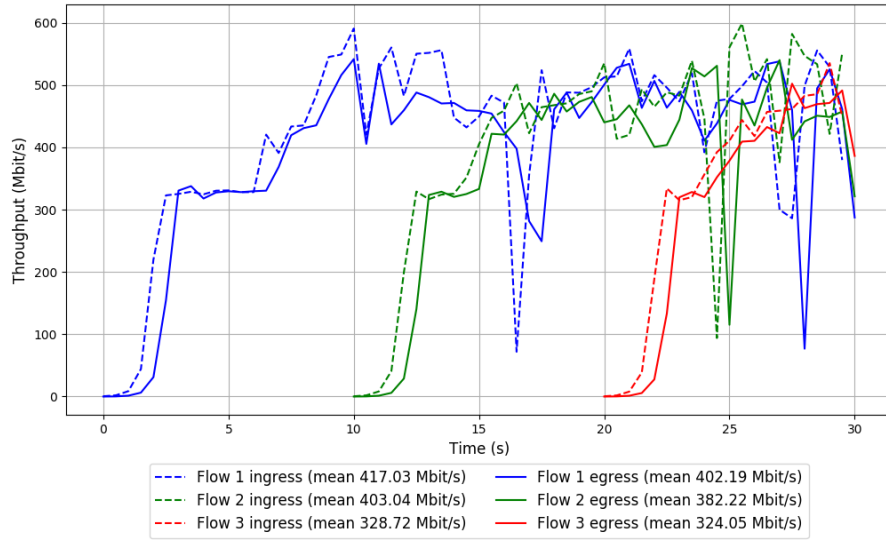
-- Flow 3:

Average throughput: 324.05 Mbit/s

95th percentile per-packet one-way delay: 161.860 ms

Loss rate: 3.56%

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





Run 3: Statistics of TCP BBR

Start at: 2019-10-03 00:23:59  
End at: 2019-10-03 00:24:29  
Local clock offset: -0.709 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-10-03 02:46:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 775.69 Mbit/s  
95th percentile per-packet one-way delay: 260.620 ms  
Loss rate: 5.72%

-- Flow 1:

Average throughput: 409.94 Mbit/s  
95th percentile per-packet one-way delay: 257.325 ms  
Loss rate: 4.37%

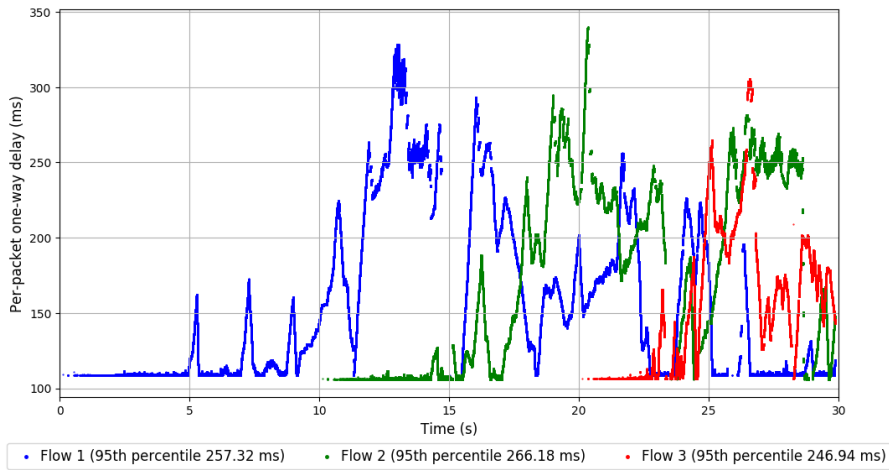
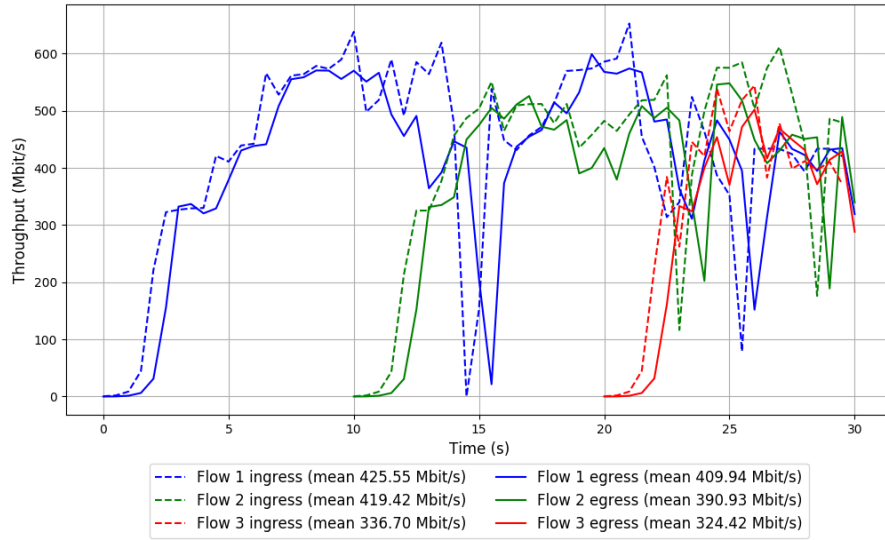
-- Flow 2:

Average throughput: 390.93 Mbit/s  
95th percentile per-packet one-way delay: 266.178 ms  
Loss rate: 7.79%

-- Flow 3:

Average throughput: 324.42 Mbit/s  
95th percentile per-packet one-way delay: 246.935 ms  
Loss rate: 5.73%

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

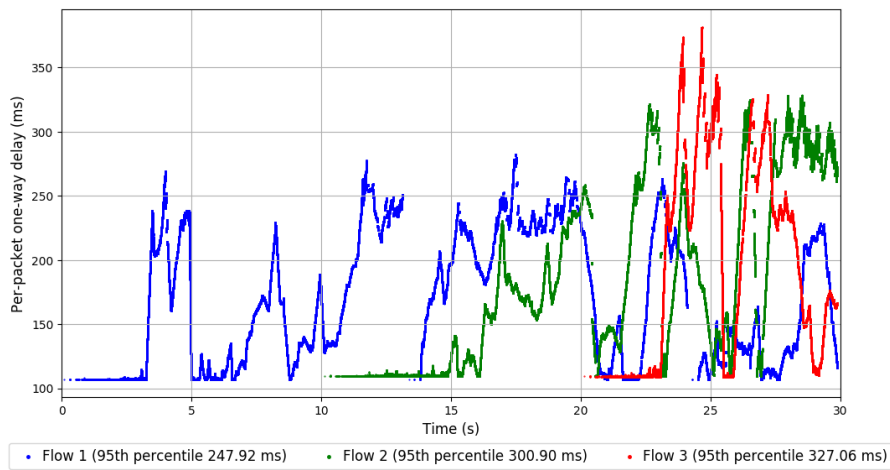
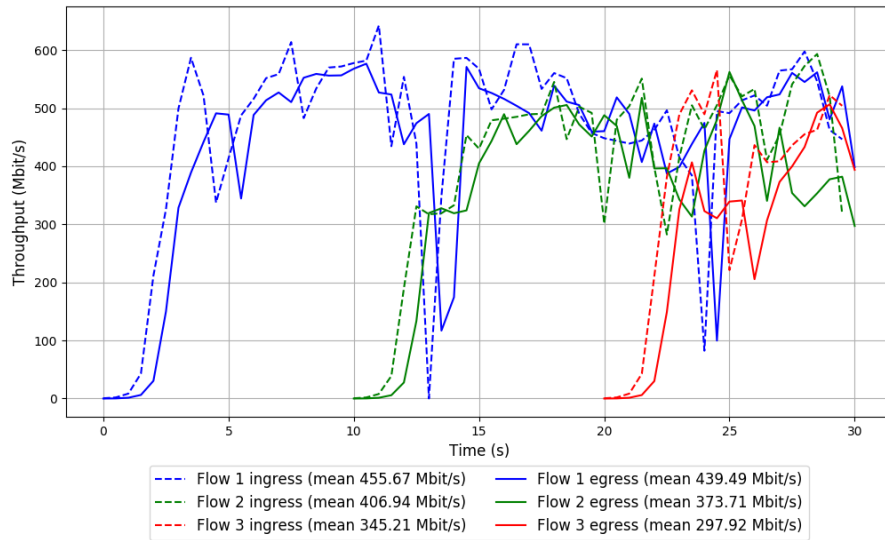


Run 4: Statistics of TCP BBR

Start at: 2019-10-03 01:07:03  
End at: 2019-10-03 01:07:33  
Local clock offset: -0.051 ms  
Remote clock offset: -0.051 ms

```
# Below is generated by plot.py at 2019-10-03 02:46:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 785.16 Mbit/s
95th percentile per-packet one-way delay: 291.746 ms
Loss rate: 7.38%
-- Flow 1:
Average throughput: 439.49 Mbit/s
95th percentile per-packet one-way delay: 247.921 ms
Loss rate: 4.25%
-- Flow 2:
Average throughput: 373.71 Mbit/s
95th percentile per-packet one-way delay: 300.904 ms
Loss rate: 9.18%
-- Flow 3:
Average throughput: 297.92 Mbit/s
95th percentile per-packet one-way delay: 327.056 ms
Loss rate: 15.60%
```

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

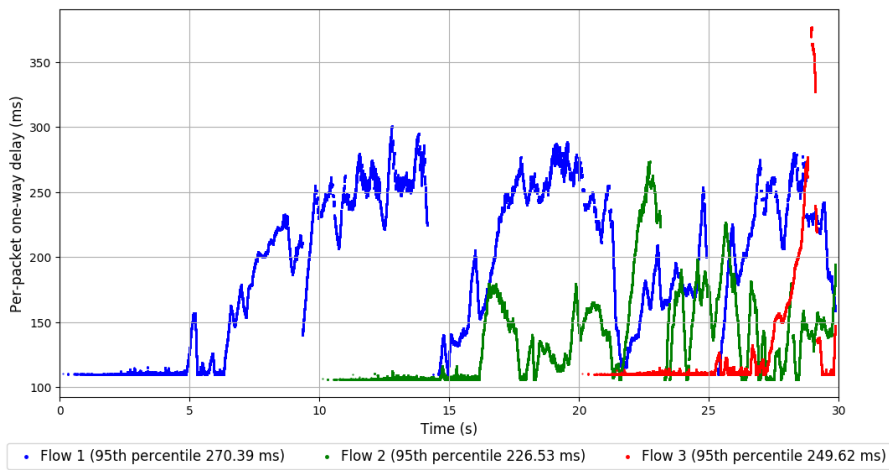
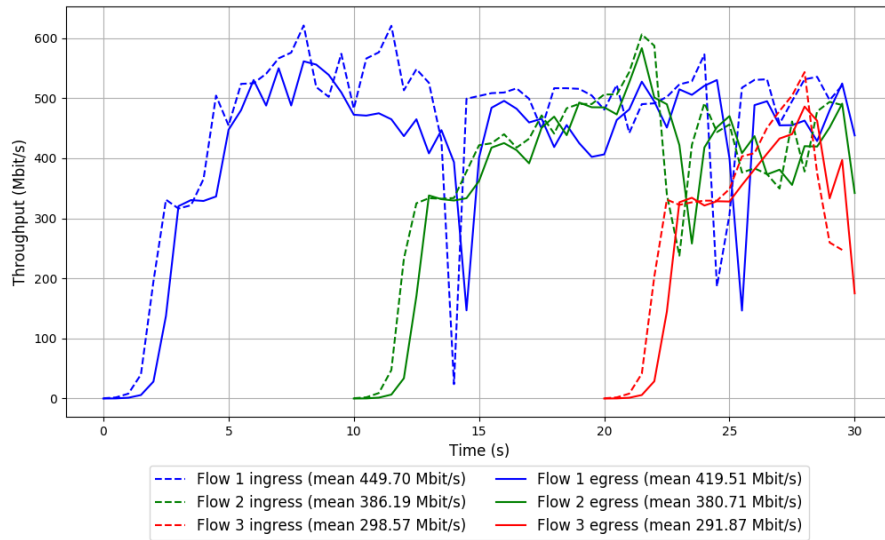


Run 5: Statistics of TCP BBR

Start at: 2019-10-03 01:49:44  
End at: 2019-10-03 01:50:14  
Local clock offset: 0.009 ms  
Remote clock offset: -0.032 ms

# Below is generated by plot.py at 2019-10-03 02:46:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 767.85 Mbit/s  
95th percentile per-packet one-way delay: 264.630 ms  
Loss rate: 5.38%  
-- Flow 1:  
Average throughput: 419.51 Mbit/s  
95th percentile per-packet one-way delay: 270.392 ms  
Loss rate: 7.40%  
-- Flow 2:  
Average throughput: 380.71 Mbit/s  
95th percentile per-packet one-way delay: 226.525 ms  
Loss rate: 2.48%  
-- Flow 3:  
Average throughput: 291.87 Mbit/s  
95th percentile per-packet one-way delay: 249.624 ms  
Loss rate: 3.77%

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



Run 1: Statistics of Copa

Start at: 2019-10-02 22:42:11

End at: 2019-10-02 22:42:41

Local clock offset: 0.204 ms

Remote clock offset: 0.007 ms

# Below is generated by plot.py at 2019-10-03 02:46:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 414.79 Mbit/s

95th percentile per-packet one-way delay: 190.237 ms

Loss rate: 1.62%

-- Flow 1:

Average throughput: 200.22 Mbit/s

95th percentile per-packet one-way delay: 423.260 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 222.75 Mbit/s

95th percentile per-packet one-way delay: 146.006 ms

Loss rate: 1.55%

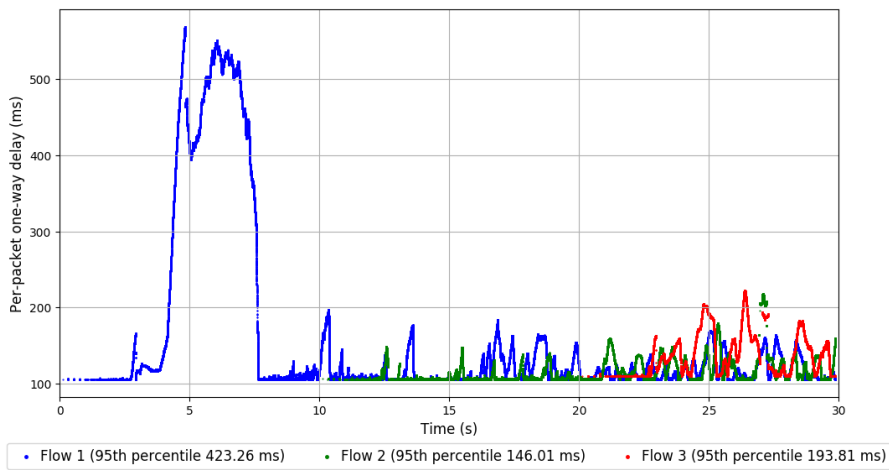
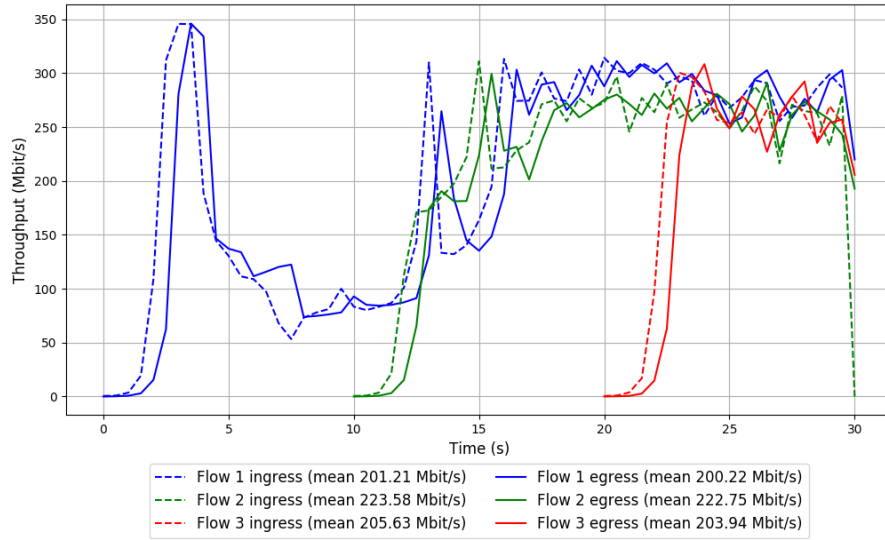
-- Flow 3:

Average throughput: 203.94 Mbit/s

95th percentile per-packet one-way delay: 193.808 ms

Loss rate: 2.99%

# Run 1: Report of Copa — Data Link





Run 2: Statistics of Copa

Start at: 2019-10-02 23:25:04

End at: 2019-10-02 23:25:34

Local clock offset: -0.278 ms

Remote clock offset: 0.015 ms

# Below is generated by plot.py at 2019-10-03 02:48:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 477.38 Mbit/s

95th percentile per-packet one-way delay: 184.384 ms

Loss rate: 1.15%

-- Flow 1:

Average throughput: 262.06 Mbit/s

95th percentile per-packet one-way delay: 183.356 ms

Loss rate: 0.78%

-- Flow 2:

Average throughput: 232.62 Mbit/s

95th percentile per-packet one-way delay: 178.630 ms

Loss rate: 1.23%

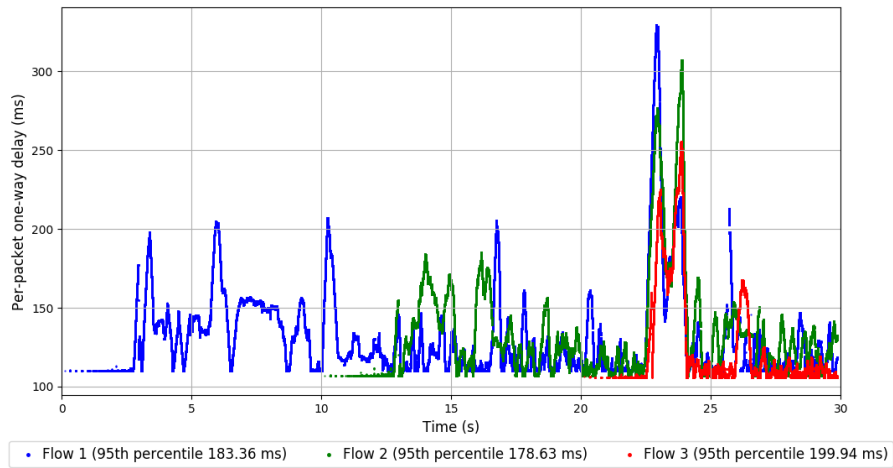
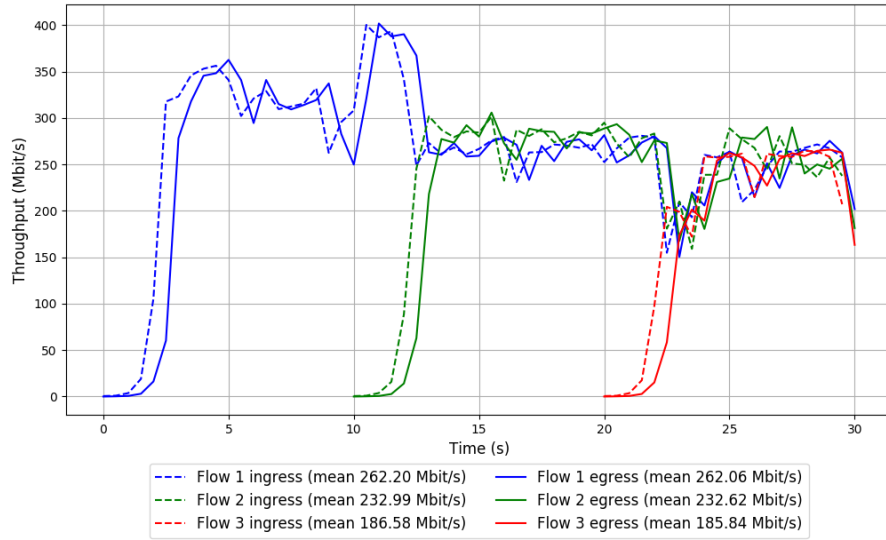
-- Flow 3:

Average throughput: 185.84 Mbit/s

95th percentile per-packet one-way delay: 199.939 ms

Loss rate: 2.52%

## Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-10-03 00:07:52

End at: 2019-10-03 00:08:22

Local clock offset: -0.151 ms

Remote clock offset: 0.039 ms

# Below is generated by plot.py at 2019-10-03 02:48:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 423.70 Mbit/s

95th percentile per-packet one-way delay: 175.609 ms

Loss rate: 1.16%

-- Flow 1:

Average throughput: 218.53 Mbit/s

95th percentile per-packet one-way delay: 164.392 ms

Loss rate: 0.71%

-- Flow 2:

Average throughput: 214.53 Mbit/s

95th percentile per-packet one-way delay: 159.855 ms

Loss rate: 1.00%

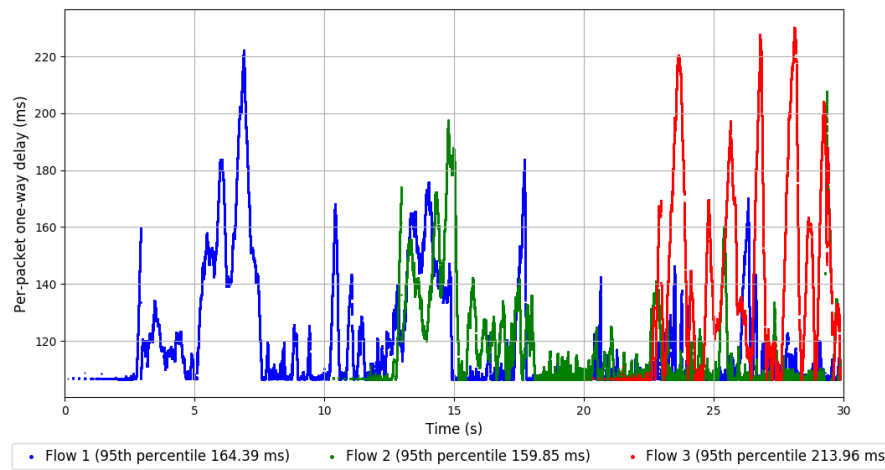
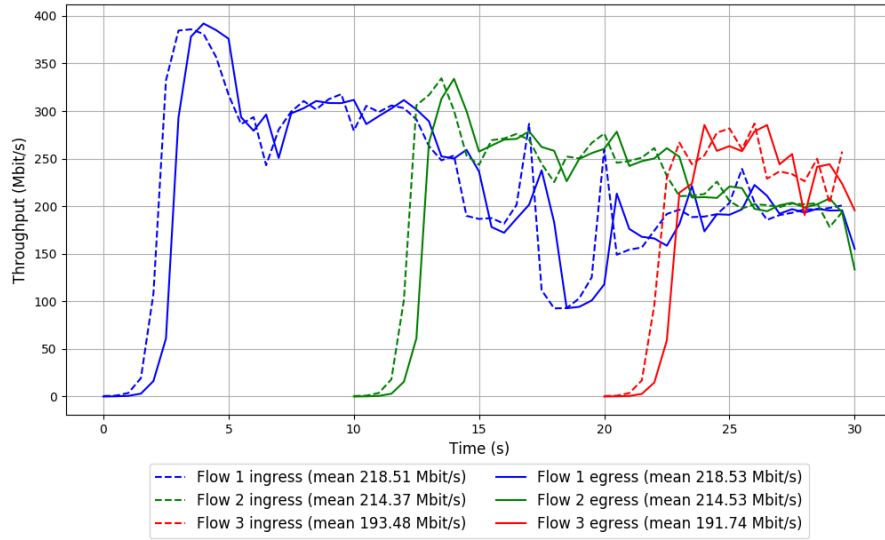
-- Flow 3:

Average throughput: 191.74 Mbit/s

95th percentile per-packet one-way delay: 213.955 ms

Loss rate: 3.04%

### Run 3: Report of Copa — Data Link

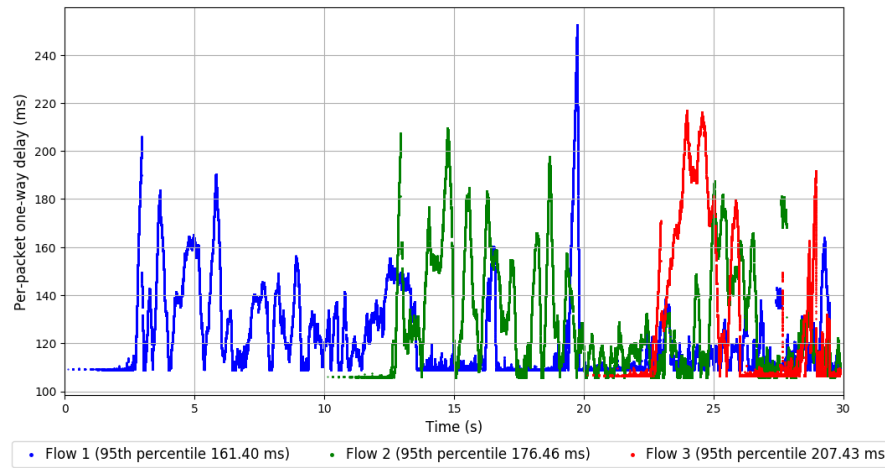
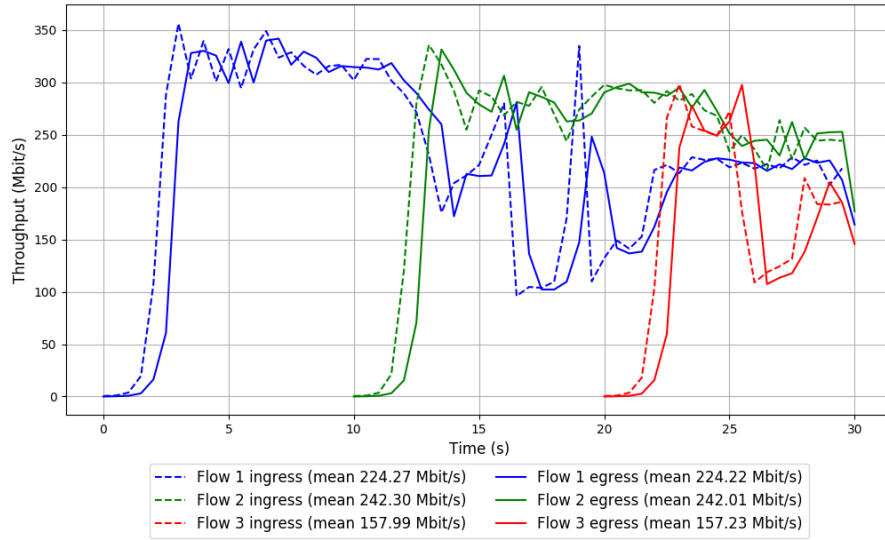


Run 4: Statistics of Copa

Start at: 2019-10-03 00:50:54  
End at: 2019-10-03 00:51:24  
Local clock offset: -0.208 ms  
Remote clock offset: -0.081 ms

```
# Below is generated by plot.py at 2019-10-03 03:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 436.34 Mbit/s
95th percentile per-packet one-way delay: 178.051 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 224.22 Mbit/s
95th percentile per-packet one-way delay: 161.398 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 242.01 Mbit/s
95th percentile per-packet one-way delay: 176.464 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 157.23 Mbit/s
95th percentile per-packet one-way delay: 207.425 ms
Loss rate: 2.61%
```

### Run 4: Report of Copa — Data Link

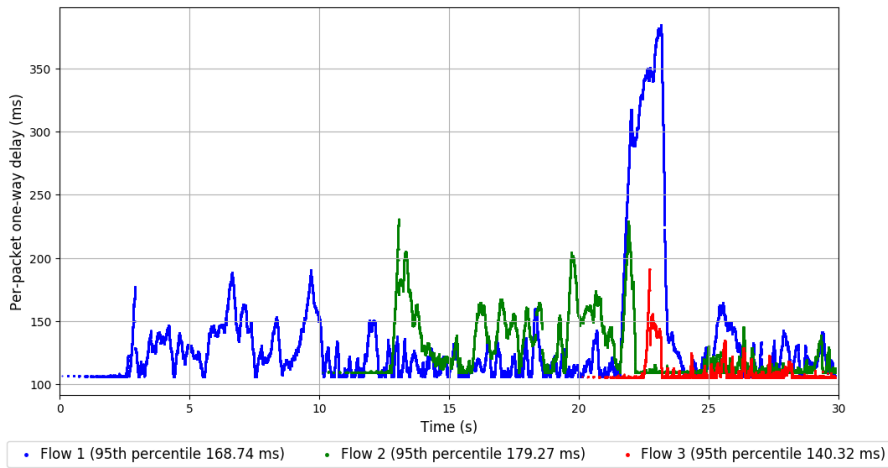
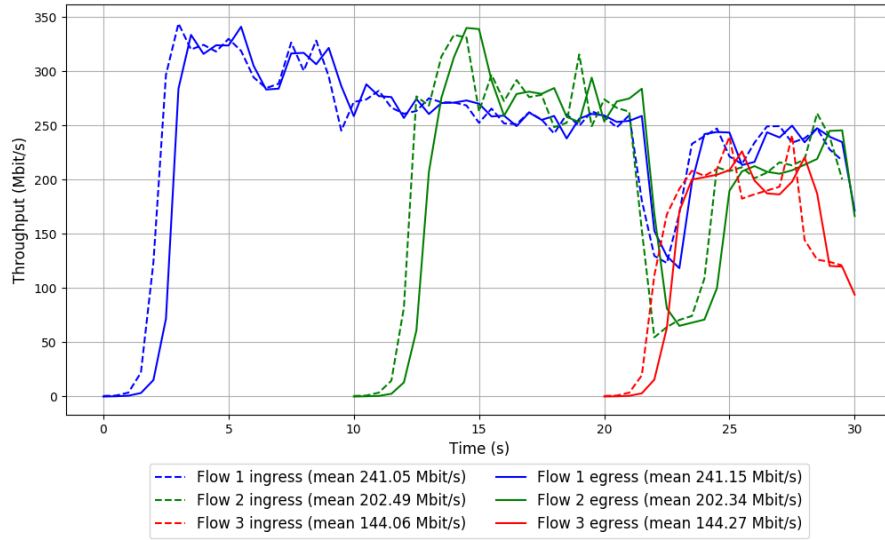


Run 5: Statistics of Copa

Start at: 2019-10-03 01:33:50  
End at: 2019-10-03 01:34:20  
Local clock offset: -0.397 ms  
Remote clock offset: -0.055 ms

```
# Below is generated by plot.py at 2019-10-03 03:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 422.64 Mbit/s
95th percentile per-packet one-way delay: 171.542 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 241.15 Mbit/s
95th percentile per-packet one-way delay: 168.740 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 202.34 Mbit/s
95th percentile per-packet one-way delay: 179.267 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 144.27 Mbit/s
95th percentile per-packet one-way delay: 140.319 ms
Loss rate: 2.00%
```

### Run 5: Report of Copa — Data Link





Run 1: Statistics of TCP Cubic

Start at: 2019-10-02 22:48:38

End at: 2019-10-02 22:49:08

Local clock offset: 0.456 ms

Remote clock offset: 0.025 ms

# Below is generated by plot.py at 2019-10-03 03:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 835.19 Mbit/s

95th percentile per-packet one-way delay: 201.929 ms

Loss rate: 1.42%

-- Flow 1:

Average throughput: 446.99 Mbit/s

95th percentile per-packet one-way delay: 209.435 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 422.37 Mbit/s

95th percentile per-packet one-way delay: 202.981 ms

Loss rate: 1.56%

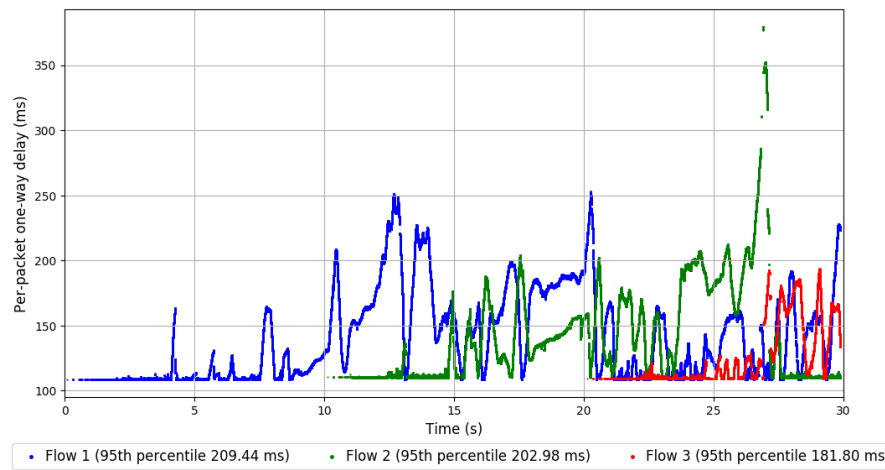
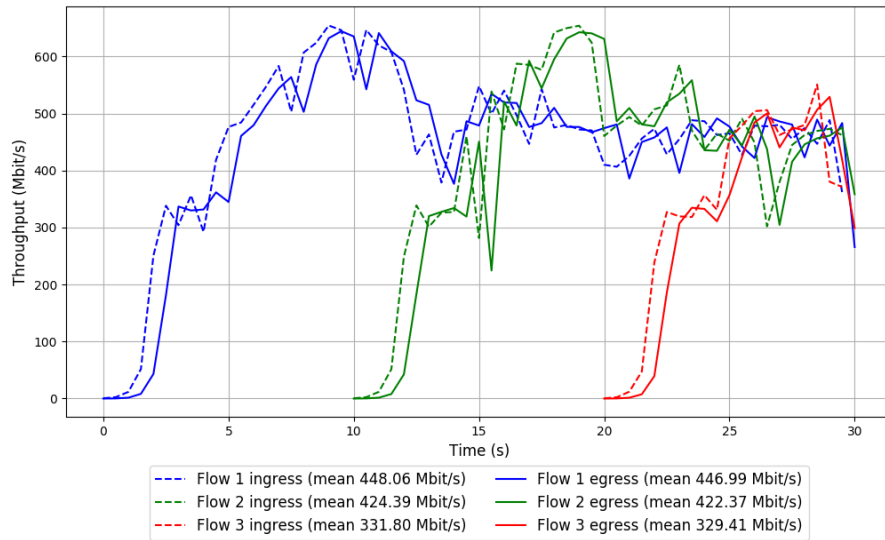
-- Flow 3:

Average throughput: 329.41 Mbit/s

95th percentile per-packet one-way delay: 181.796 ms

Loss rate: 2.89%

Run 1: Report of TCP Cubic — Data Link



Run 2: Statistics of TCP Cubic

Start at: 2019-10-02 23:31:27  
End at: 2019-10-02 23:31:57  
Local clock offset: 0.215 ms  
Remote clock offset: -0.395 ms

# Below is generated by plot.py at 2019-10-03 03:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 762.58 Mbit/s  
95th percentile per-packet one-way delay: 234.880 ms  
Loss rate: 1.34%

-- Flow 1:

Average throughput: 408.71 Mbit/s  
95th percentile per-packet one-way delay: 221.554 ms  
Loss rate: 0.76%

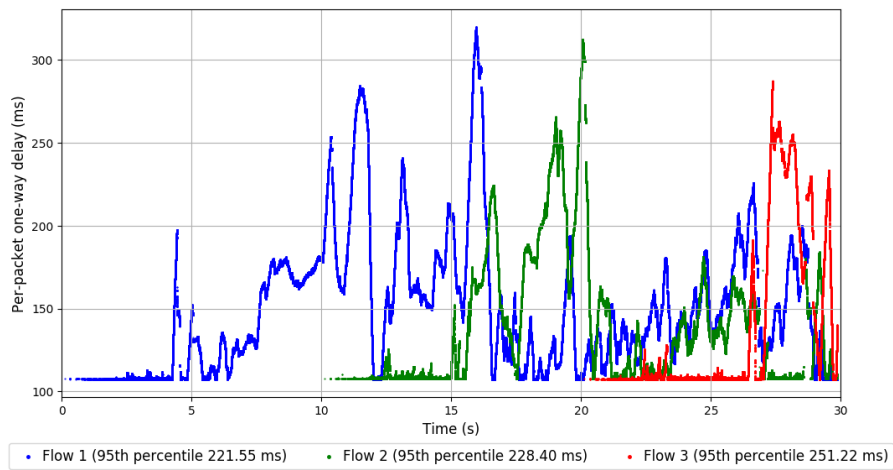
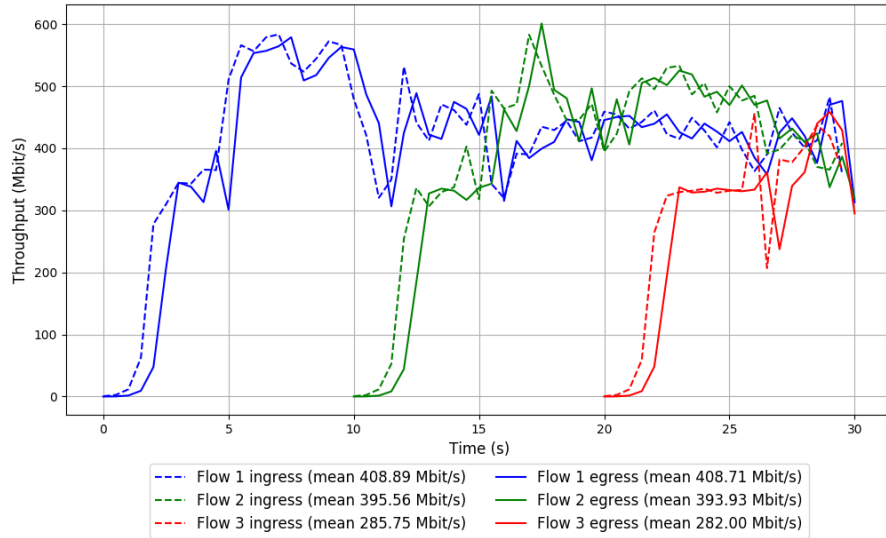
-- Flow 2:

Average throughput: 393.93 Mbit/s  
95th percentile per-packet one-way delay: 228.396 ms  
Loss rate: 1.48%

-- Flow 3:

Average throughput: 282.00 Mbit/s  
95th percentile per-packet one-way delay: 251.225 ms  
Loss rate: 3.43%

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



Run 3: Statistics of TCP Cubic

Start at: 2019-10-03 00:14:10

End at: 2019-10-03 00:14:40

Local clock offset: -0.255 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-10-03 03:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 802.26 Mbit/s

95th percentile per-packet one-way delay: 223.126 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 450.69 Mbit/s

95th percentile per-packet one-way delay: 201.676 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 381.21 Mbit/s

95th percentile per-packet one-way delay: 236.327 ms

Loss rate: 1.83%

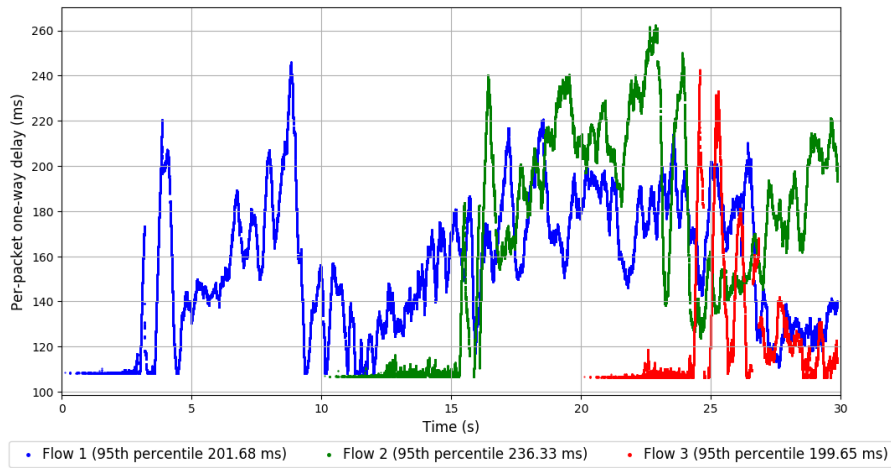
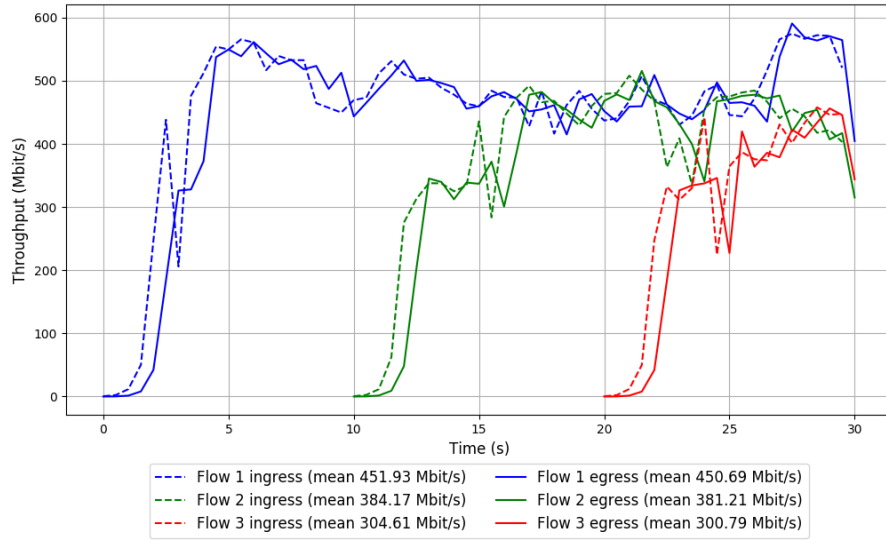
-- Flow 3:

Average throughput: 300.79 Mbit/s

95th percentile per-packet one-way delay: 199.653 ms

Loss rate: 3.38%

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



Run 4: Statistics of TCP Cubic

Start at: 2019-10-03 00:57:12  
End at: 2019-10-03 00:57:42  
Local clock offset: -0.15 ms  
Remote clock offset: -0.092 ms

# Below is generated by plot.py at 2019-10-03 03:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 739.67 Mbit/s  
95th percentile per-packet one-way delay: 233.272 ms  
Loss rate: 1.42%

-- Flow 1:

Average throughput: 399.11 Mbit/s  
95th percentile per-packet one-way delay: 226.344 ms  
Loss rate: 0.86%

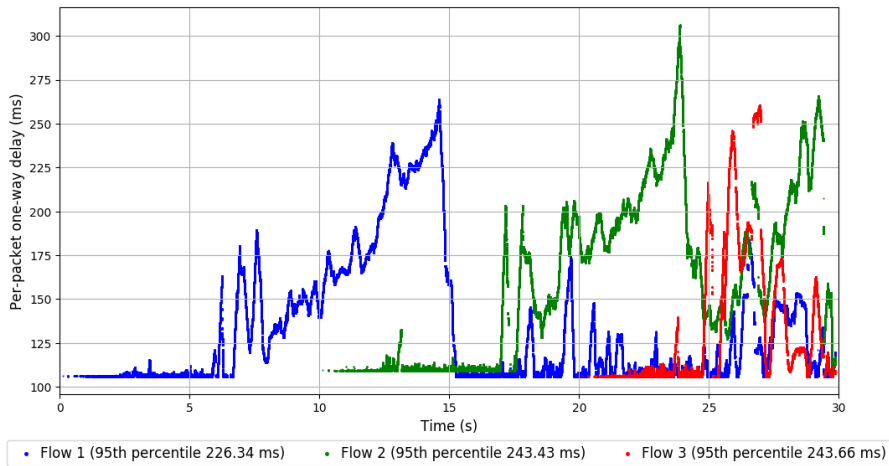
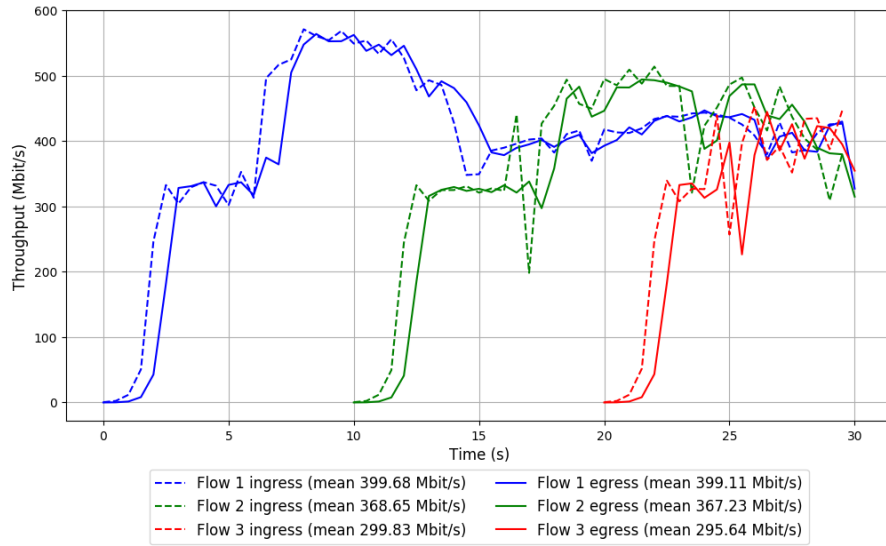
-- Flow 2:

Average throughput: 367.23 Mbit/s  
95th percentile per-packet one-way delay: 243.432 ms  
Loss rate: 1.48%

-- Flow 3:

Average throughput: 295.64 Mbit/s  
95th percentile per-packet one-way delay: 243.656 ms  
Loss rate: 3.53%

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





Run 5: Statistics of TCP Cubic

Start at: 2019-10-03 01:40:13  
End at: 2019-10-03 01:40:43  
Local clock offset: -0.3 ms  
Remote clock offset: -0.048 ms

# Below is generated by plot.py at 2019-10-03 03:04:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 771.19 Mbit/s  
95th percentile per-packet one-way delay: 223.830 ms  
Loss rate: 1.46%

-- Flow 1:

Average throughput: 431.59 Mbit/s  
95th percentile per-packet one-way delay: 221.598 ms  
Loss rate: 0.93%

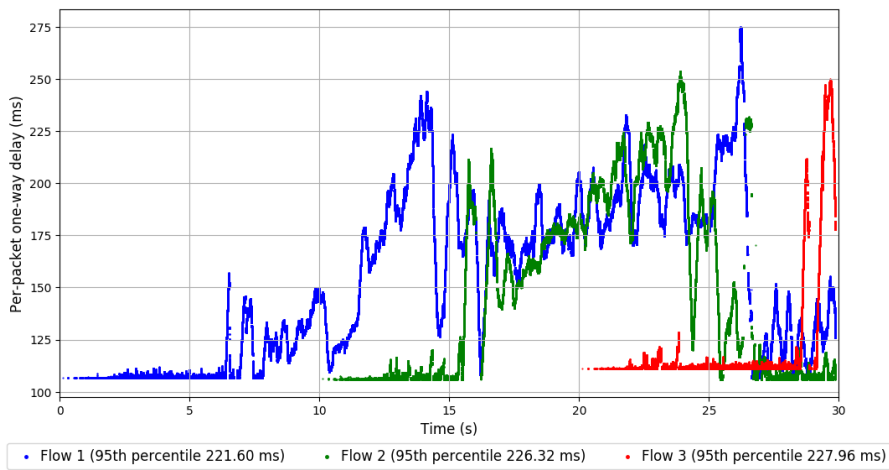
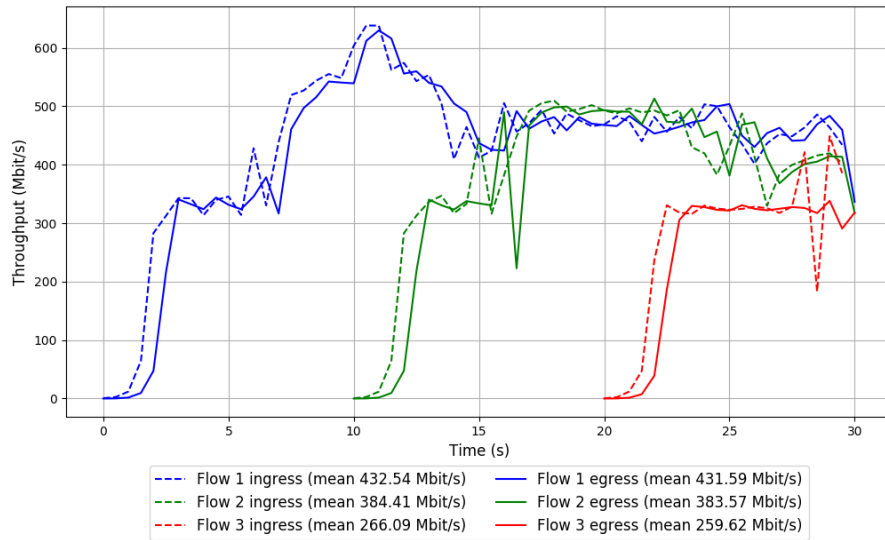
-- Flow 2:

Average throughput: 383.57 Mbit/s  
95th percentile per-packet one-way delay: 226.324 ms  
Loss rate: 1.28%

-- Flow 3:

Average throughput: 259.62 Mbit/s  
95th percentile per-packet one-way delay: 227.961 ms  
Loss rate: 4.59%

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



Run 1: Statistics of FillP

Start at: 2019-10-02 22:50:44

End at: 2019-10-02 22:51:14

Local clock offset: 0.564 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-10-03 03:07:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 781.97 Mbit/s

95th percentile per-packet one-way delay: 155.482 ms

Loss rate: 1.46%

-- Flow 1:

Average throughput: 512.78 Mbit/s

95th percentile per-packet one-way delay: 161.286 ms

Loss rate: 1.39%

-- Flow 2:

Average throughput: 298.96 Mbit/s

95th percentile per-packet one-way delay: 115.572 ms

Loss rate: 1.10%

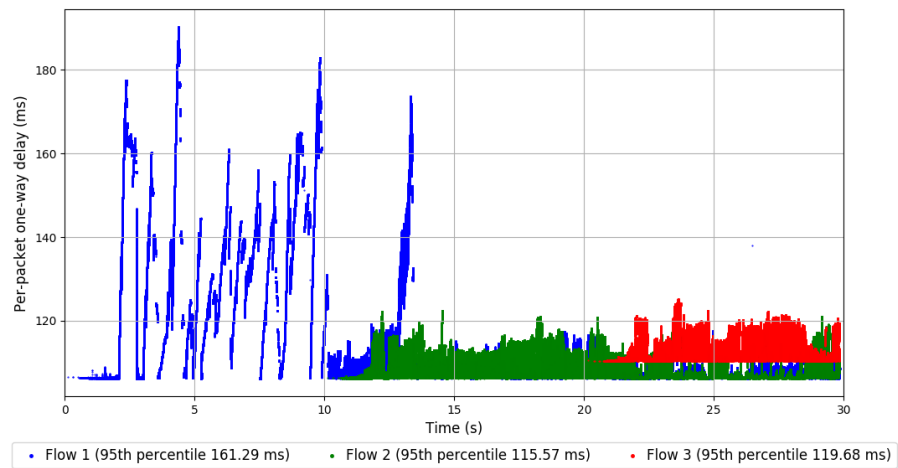
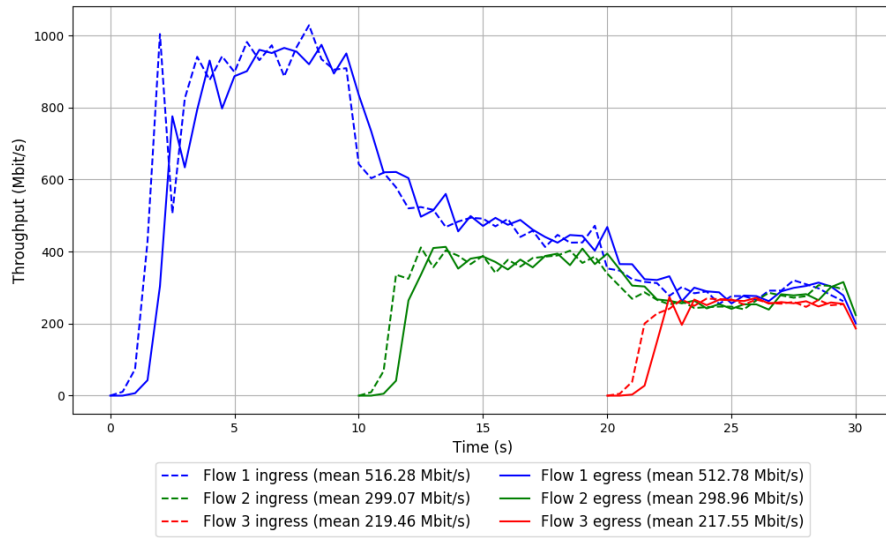
-- Flow 3:

Average throughput: 217.55 Mbit/s

95th percentile per-packet one-way delay: 119.680 ms

Loss rate: 2.94%

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



Run 2: Statistics of FillP

Start at: 2019-10-02 23:33:29

End at: 2019-10-02 23:33:59

Local clock offset: -0.127 ms

Remote clock offset: -0.38 ms

# Below is generated by plot.py at 2019-10-03 03:23:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 781.90 Mbit/s

95th percentile per-packet one-way delay: 152.371 ms

Loss rate: 1.74%

-- Flow 1:

Average throughput: 490.93 Mbit/s

95th percentile per-packet one-way delay: 165.067 ms

Loss rate: 1.96%

-- Flow 2:

Average throughput: 326.85 Mbit/s

95th percentile per-packet one-way delay: 118.421 ms

Loss rate: 0.78%

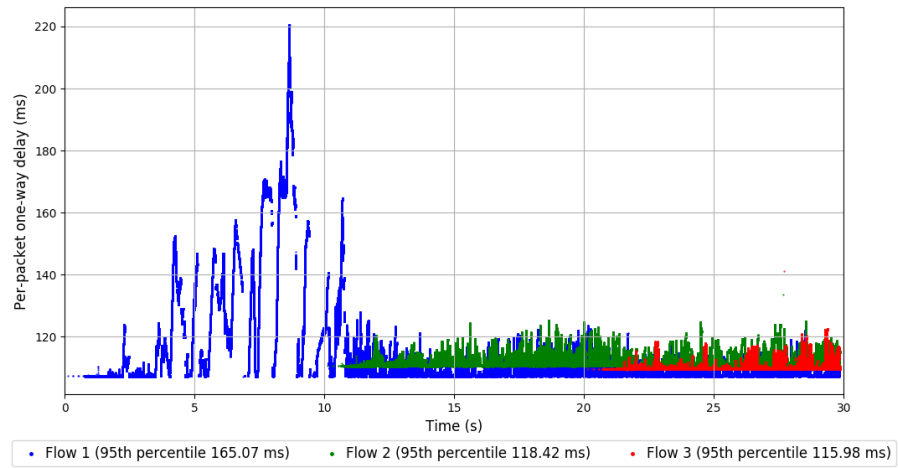
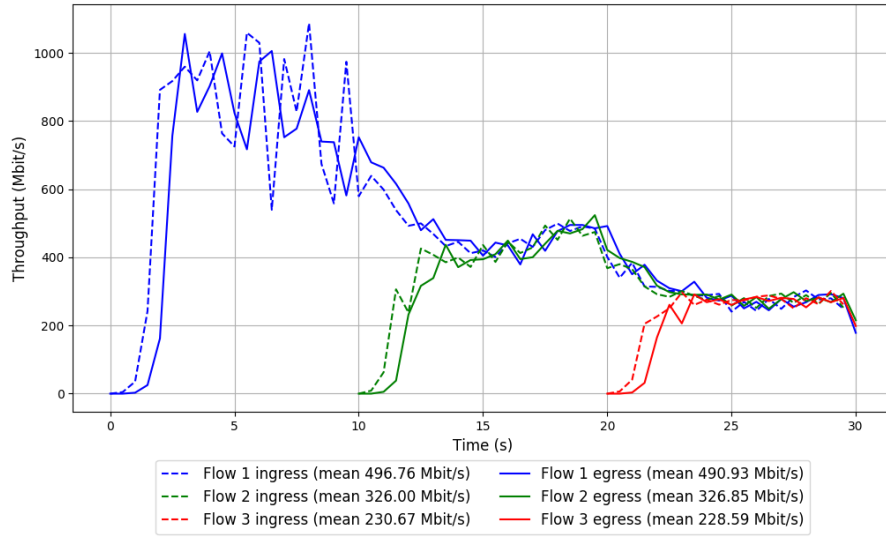
-- Flow 3:

Average throughput: 228.59 Mbit/s

95th percentile per-packet one-way delay: 115.983 ms

Loss rate: 3.06%

## Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-10-03 00:16:14

End at: 2019-10-03 00:16:44

Local clock offset: 0.038 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-10-03 03:24:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 830.56 Mbit/s

95th percentile per-packet one-way delay: 157.130 ms

Loss rate: 1.48%

-- Flow 1:

Average throughput: 511.31 Mbit/s

95th percentile per-packet one-way delay: 162.715 ms

Loss rate: 1.52%

-- Flow 2:

Average throughput: 373.66 Mbit/s

95th percentile per-packet one-way delay: 135.795 ms

Loss rate: 1.01%

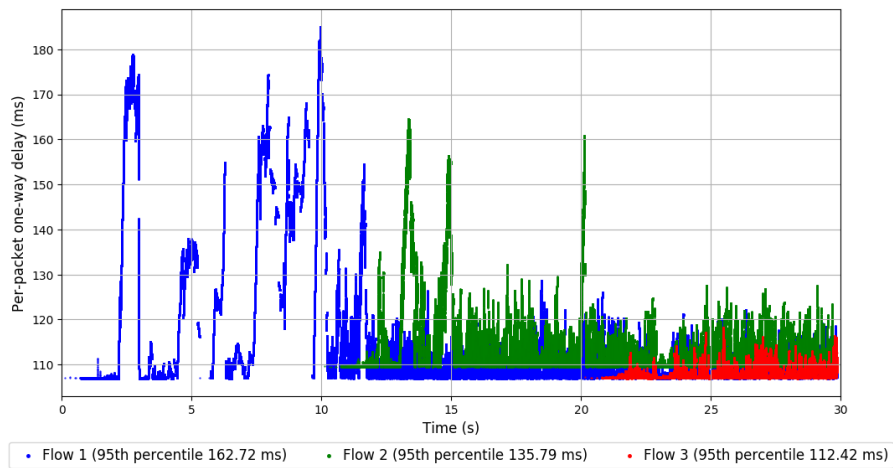
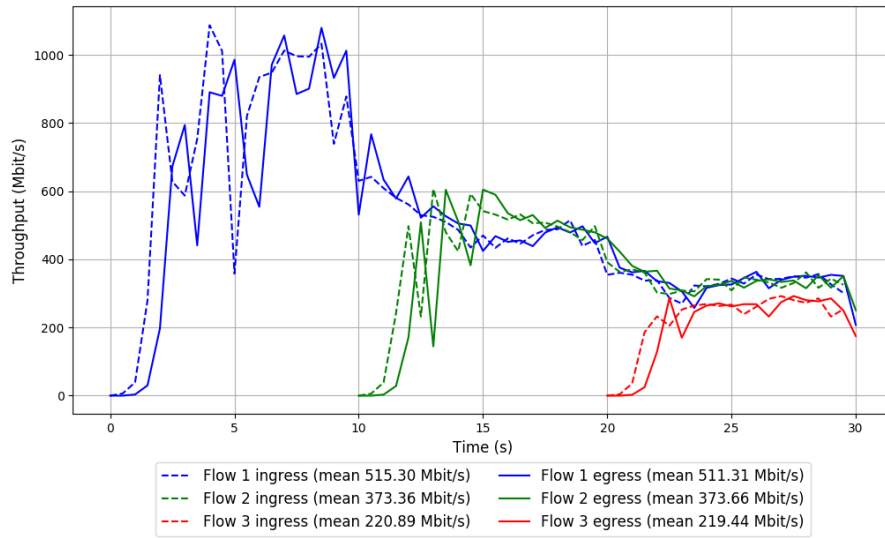
-- Flow 3:

Average throughput: 219.44 Mbit/s

95th percentile per-packet one-way delay: 112.424 ms

Loss rate: 2.79%

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



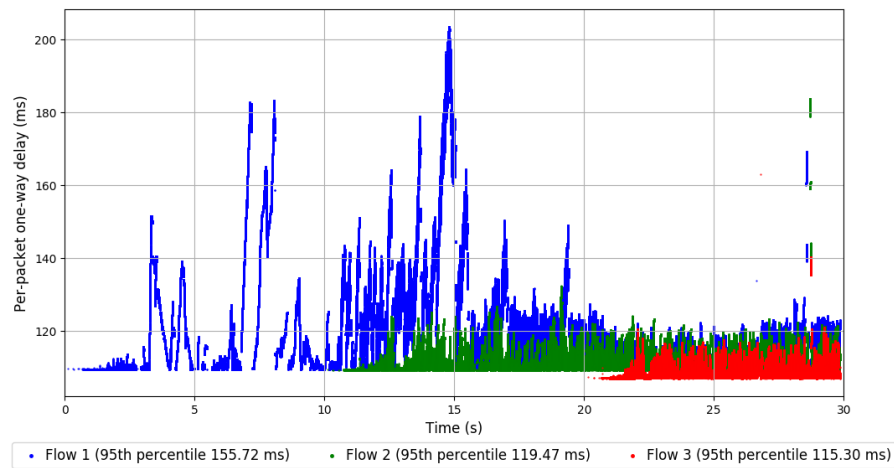
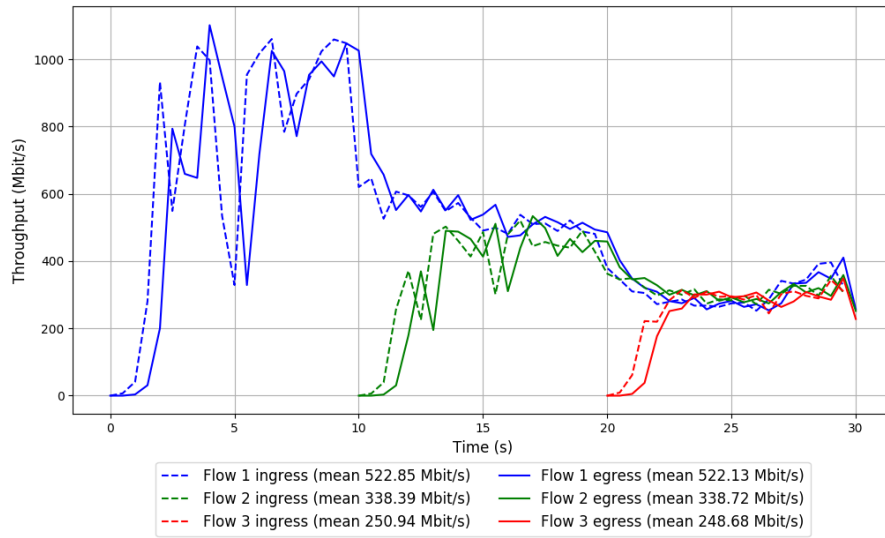


Run 4: Statistics of FillP

Start at: 2019-10-03 00:59:15  
End at: 2019-10-03 00:59:45  
Local clock offset: -0.037 ms  
Remote clock offset: -0.089 ms

```
# Below is generated by plot.py at 2019-10-03 03:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 827.84 Mbit/s
95th percentile per-packet one-way delay: 149.474 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 522.13 Mbit/s
95th percentile per-packet one-way delay: 155.721 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 338.72 Mbit/s
95th percentile per-packet one-way delay: 119.475 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 248.68 Mbit/s
95th percentile per-packet one-way delay: 115.304 ms
Loss rate: 3.06%
```

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

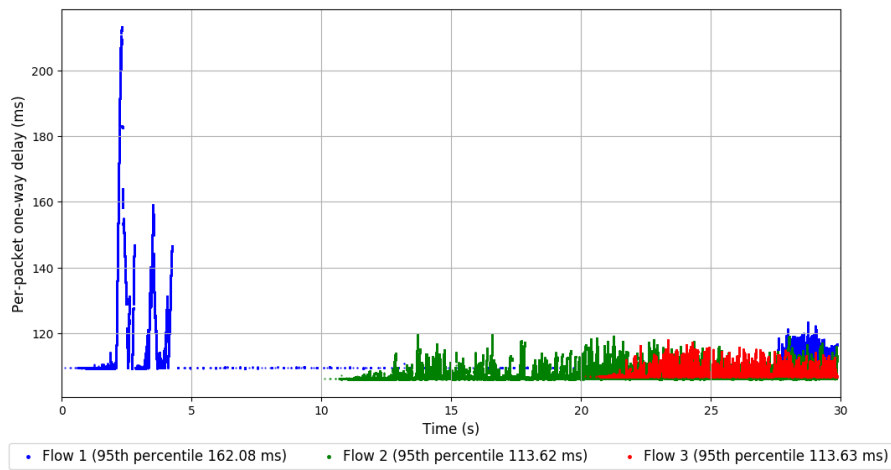
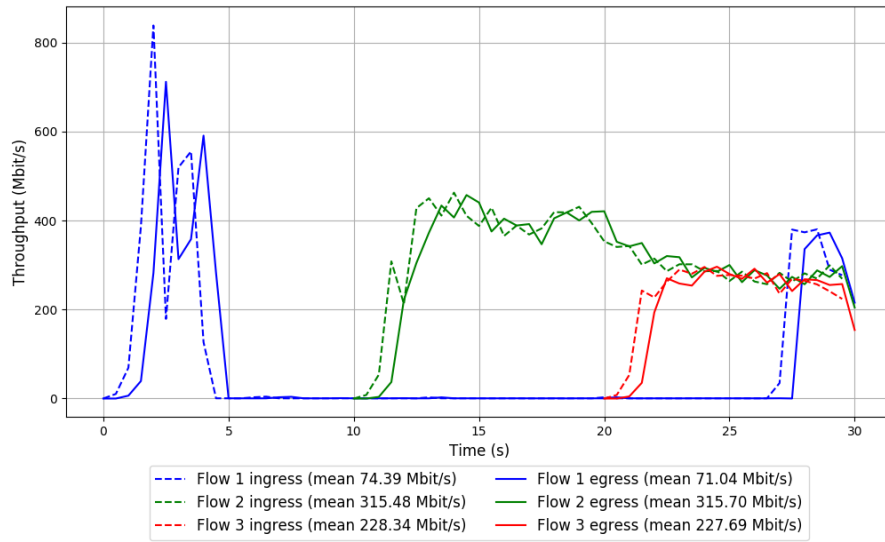


Run 5: Statistics of FillP

Start at: 2019-10-03 01:42:16  
End at: 2019-10-03 01:42:46  
Local clock offset: 0.062 ms  
Remote clock offset: -0.057 ms

```
# Below is generated by plot.py at 2019-10-03 03:25:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.81 Mbit/s
95th percentile per-packet one-way delay: 125.895 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 71.04 Mbit/s
95th percentile per-packet one-way delay: 162.080 ms
Loss rate: 5.17%
-- Flow 2:
Average throughput: 315.70 Mbit/s
95th percentile per-packet one-way delay: 113.620 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 227.69 Mbit/s
95th percentile per-packet one-way delay: 113.629 ms
Loss rate: 2.45%
```

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



Run 1: Statistics of FillP-Sheep

Start at: 2019-10-02 23:20:14

End at: 2019-10-02 23:20:44

Local clock offset: 0.003 ms

Remote clock offset: 0.073 ms

# Below is generated by plot.py at 2019-10-03 03:25:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 401.65 Mbit/s

95th percentile per-packet one-way delay: 163.981 ms

Loss rate: 2.09%

-- Flow 1:

Average throughput: 126.84 Mbit/s

95th percentile per-packet one-way delay: 174.651 ms

Loss rate: 3.60%

-- Flow 2:

Average throughput: 306.73 Mbit/s

95th percentile per-packet one-way delay: 109.758 ms

Loss rate: 0.98%

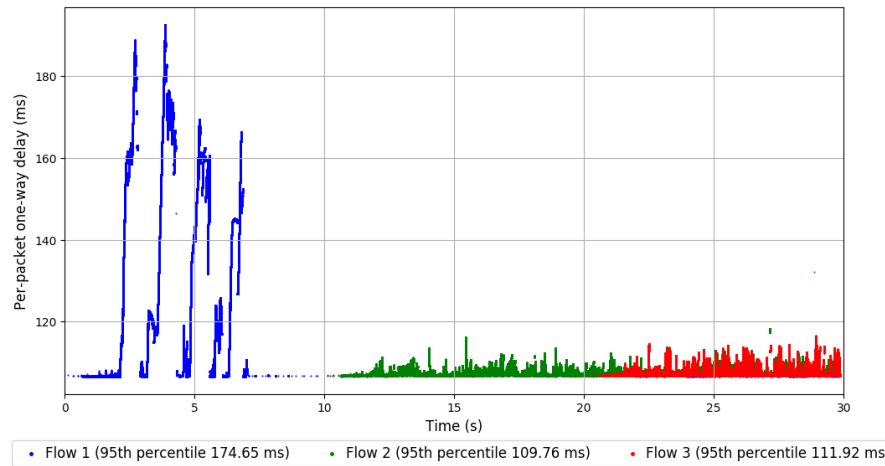
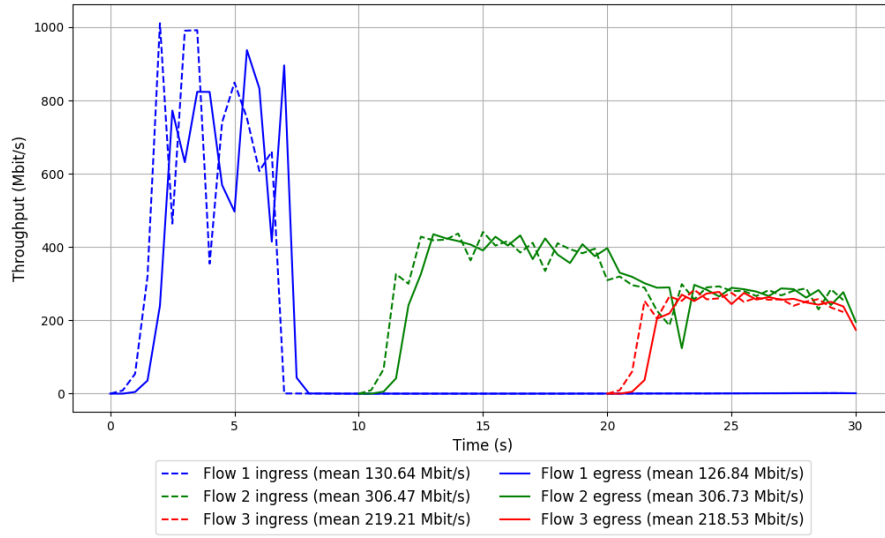
-- Flow 3:

Average throughput: 218.53 Mbit/s

95th percentile per-packet one-way delay: 111.920 ms

Loss rate: 2.46%

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



Run 2: Statistics of FillP-Sheep

Start at: 2019-10-03 00:02:46

End at: 2019-10-03 00:03:16

Local clock offset: -0.057 ms

Remote clock offset: 0.043 ms

# Below is generated by plot.py at 2019-10-03 03:25:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 734.27 Mbit/s

95th percentile per-packet one-way delay: 155.769 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 460.88 Mbit/s

95th percentile per-packet one-way delay: 163.477 ms

Loss rate: 1.20%

-- Flow 2:

Average throughput: 291.99 Mbit/s

95th percentile per-packet one-way delay: 119.585 ms

Loss rate: 0.79%

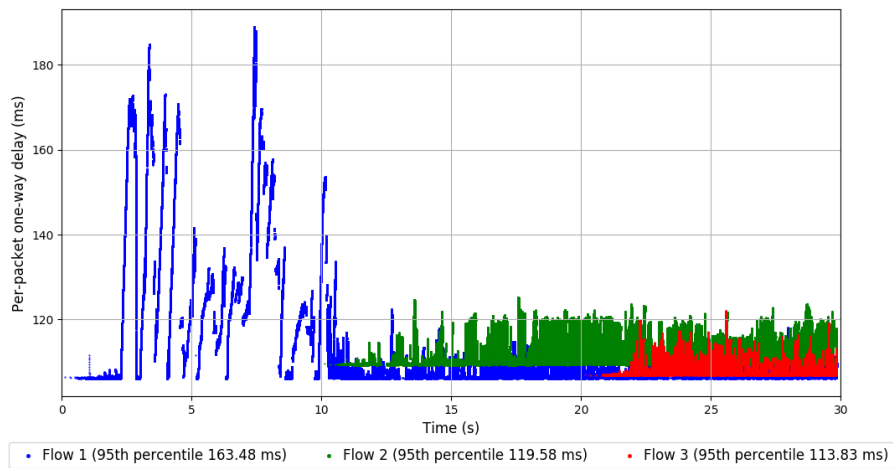
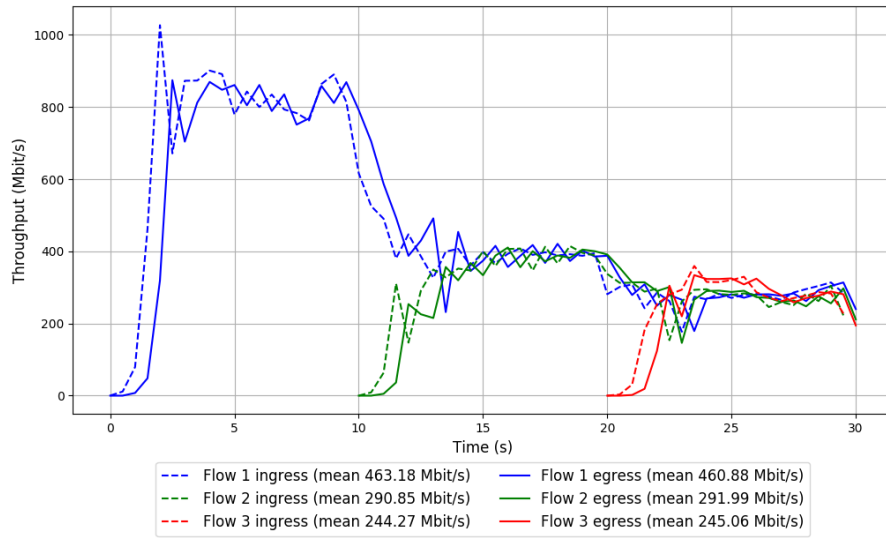
-- Flow 3:

Average throughput: 245.06 Mbit/s

95th percentile per-packet one-way delay: 113.830 ms

Loss rate: 1.97%

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





Run 3: Statistics of FillP-Sheep

Start at: 2019-10-03 00:45:48  
End at: 2019-10-03 00:46:18  
Local clock offset: 0.207 ms  
Remote clock offset: -0.088 ms

# Below is generated by plot.py at 2019-10-03 03:25:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 742.33 Mbit/s  
95th percentile per-packet one-way delay: 155.915 ms  
Loss rate: 2.38%

-- Flow 1:

Average throughput: 448.20 Mbit/s  
95th percentile per-packet one-way delay: 173.033 ms  
Loss rate: 2.98%

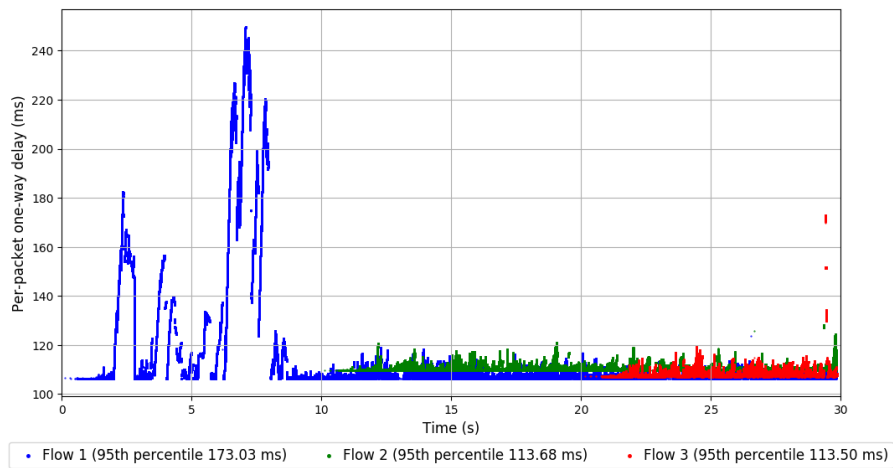
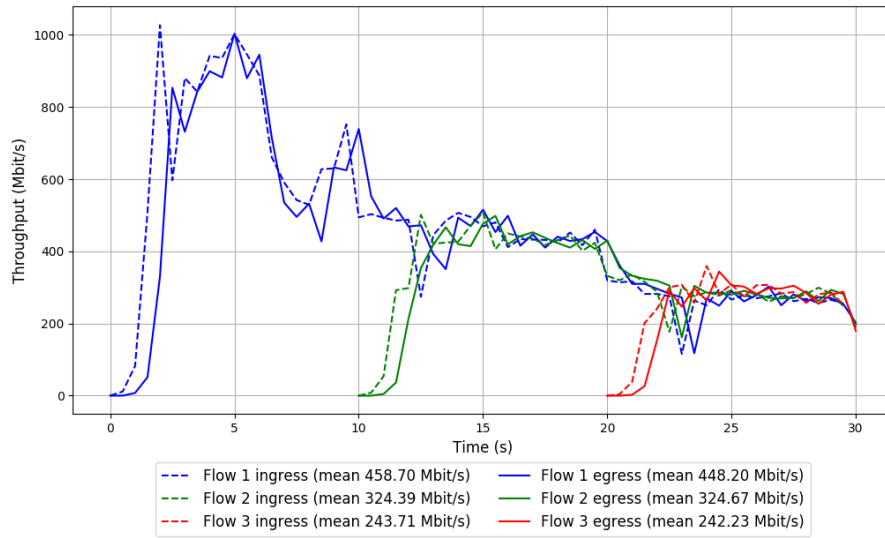
-- Flow 2:

Average throughput: 324.67 Mbit/s  
95th percentile per-packet one-way delay: 113.683 ms  
Loss rate: 0.96%

-- Flow 3:

Average throughput: 242.23 Mbit/s  
95th percentile per-packet one-way delay: 113.496 ms  
Loss rate: 2.76%

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

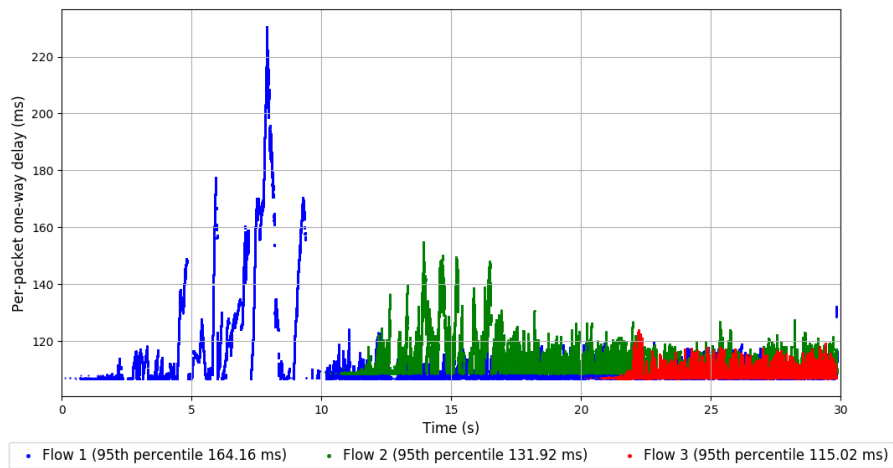
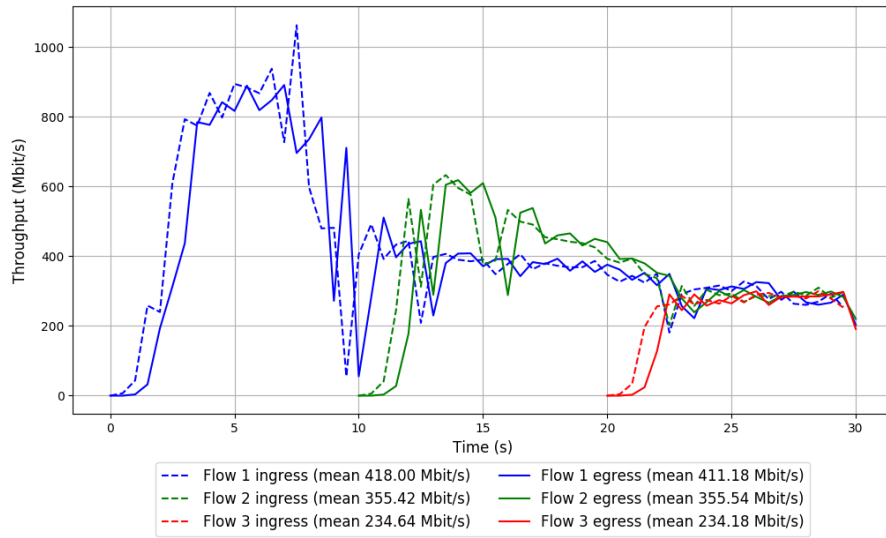


Run 4: Statistics of FillP-Sheep

Start at: 2019-10-03 01:28:45  
End at: 2019-10-03 01:29:15  
Local clock offset: -0.154 ms  
Remote clock offset: -0.079 ms

```
# Below is generated by plot.py at 2019-10-03 03:27:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 723.39 Mbit/s
95th percentile per-packet one-way delay: 148.767 ms
Loss rate: 1.93%
-- Flow 1:
Average throughput: 411.18 Mbit/s
95th percentile per-packet one-way delay: 164.160 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 355.54 Mbit/s
95th percentile per-packet one-way delay: 131.916 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 234.18 Mbit/s
95th percentile per-packet one-way delay: 115.016 ms
Loss rate: 2.44%
```

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

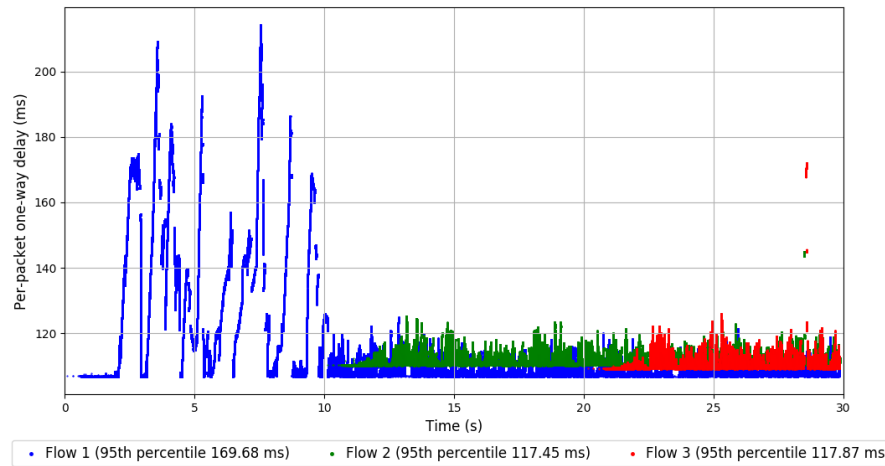
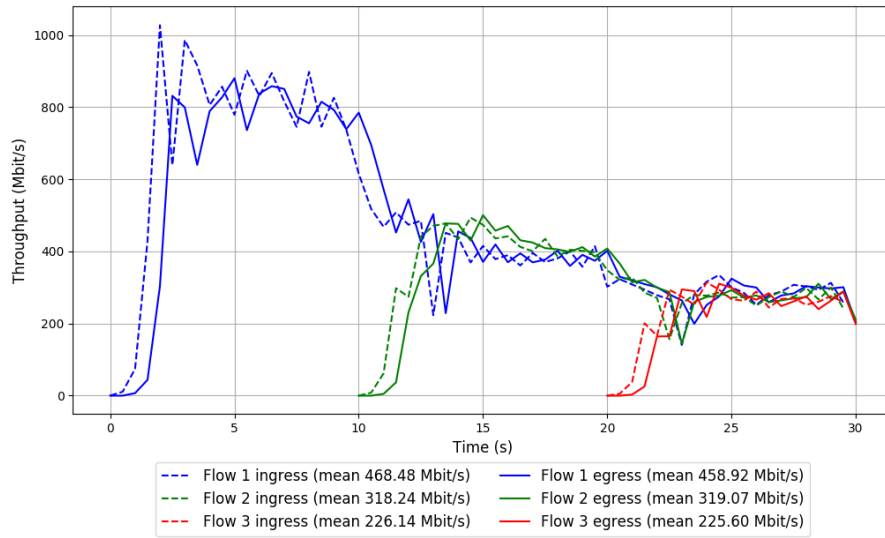


Run 5: Statistics of FillP-Sheep

Start at: 2019-10-03 02:11:15  
End at: 2019-10-03 02:11:45  
Local clock offset: -0.153 ms  
Remote clock offset: -0.012 ms

```
# Below is generated by plot.py at 2019-10-03 03:32:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 744.07 Mbit/s
95th percentile per-packet one-way delay: 164.476 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 458.92 Mbit/s
95th percentile per-packet one-way delay: 169.679 ms
Loss rate: 2.73%
-- Flow 2:
Average throughput: 319.07 Mbit/s
95th percentile per-packet one-way delay: 117.446 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 225.60 Mbit/s
95th percentile per-packet one-way delay: 117.874 ms
Loss rate: 2.59%
```

Run 5: Report of FillP-Sheep — Data Link



Run 1: Statistics of Indigo

Start at: 2019-10-02 22:38:59

End at: 2019-10-02 22:39:29

Local clock offset: 0.245 ms

Remote clock offset: 0.017 ms

# Below is generated by plot.py at 2019-10-03 03:32:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 301.34 Mbit/s

95th percentile per-packet one-way delay: 113.781 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 153.91 Mbit/s

95th percentile per-packet one-way delay: 112.532 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 154.02 Mbit/s

95th percentile per-packet one-way delay: 113.275 ms

Loss rate: 1.21%

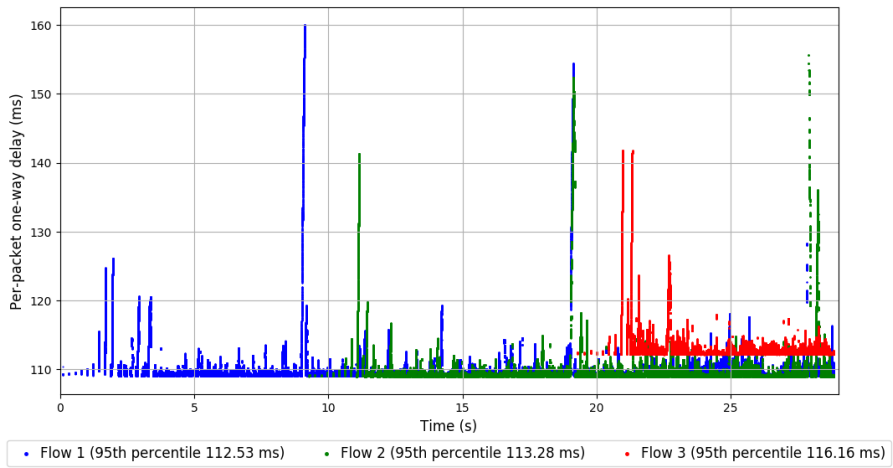
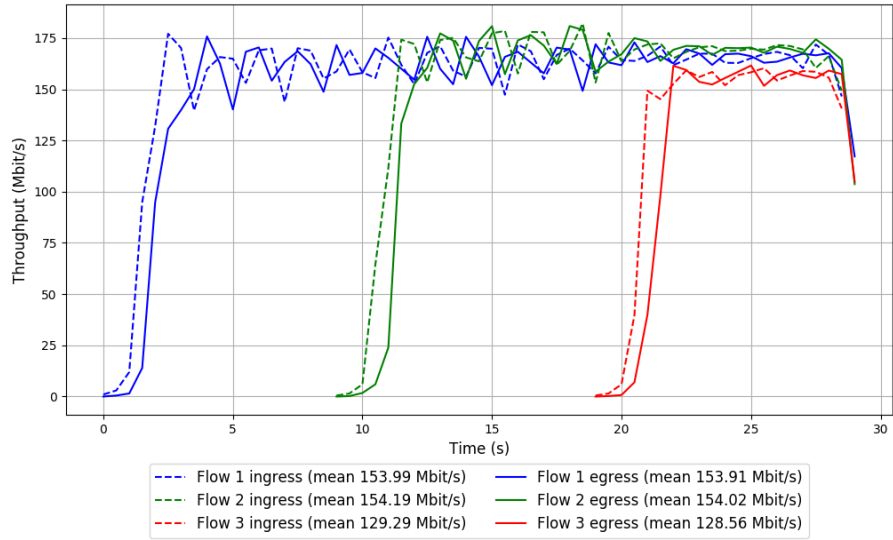
-- Flow 3:

Average throughput: 128.56 Mbit/s

95th percentile per-packet one-way delay: 116.163 ms

Loss rate: 2.81%

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





Run 2: Statistics of Indigo

Start at: 2019-10-02 23:21:52

End at: 2019-10-02 23:22:22

Local clock offset: 0.358 ms

Remote clock offset: 0.006 ms

# Below is generated by plot.py at 2019-10-03 03:34:36

# Datalink statistics

-- Total of 3 flows:

Average throughput: 292.91 Mbit/s

95th percentile per-packet one-way delay: 114.572 ms

Loss rate: 1.22%

-- Flow 1:

Average throughput: 151.12 Mbit/s

95th percentile per-packet one-way delay: 115.327 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 148.14 Mbit/s

95th percentile per-packet one-way delay: 113.973 ms

Loss rate: 1.21%

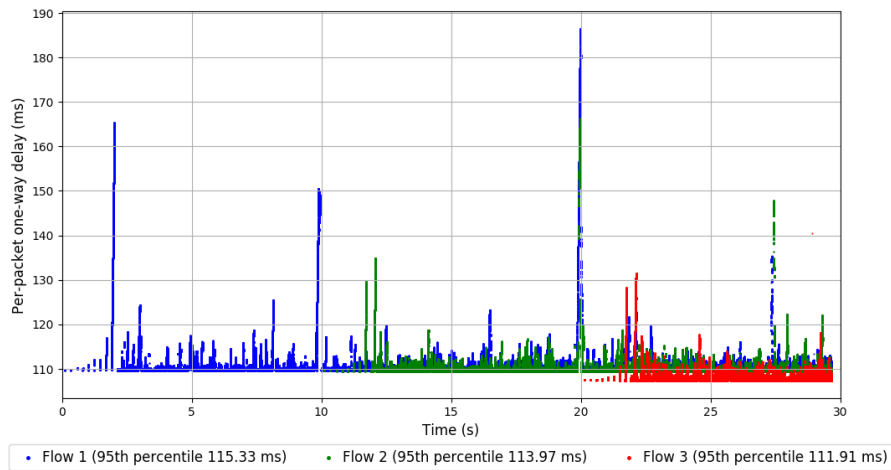
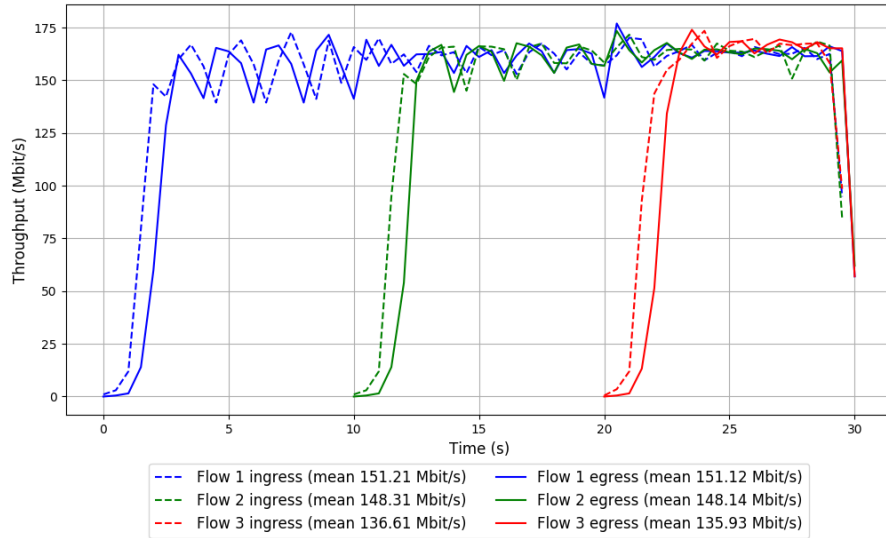
-- Flow 3:

Average throughput: 135.93 Mbit/s

95th percentile per-packet one-way delay: 111.906 ms

Loss rate: 2.68%

## Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-10-03 00:04:39

End at: 2019-10-03 00:05:09

Local clock offset: -0.112 ms

Remote clock offset: 0.041 ms

# Below is generated by plot.py at 2019-10-03 03:35:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 301.74 Mbit/s

95th percentile per-packet one-way delay: 112.590 ms

Loss rate: 1.18%

-- Flow 1:

Average throughput: 156.96 Mbit/s

95th percentile per-packet one-way delay: 111.120 ms

Loss rate: 0.76%

-- Flow 2:

Average throughput: 156.77 Mbit/s

95th percentile per-packet one-way delay: 113.883 ms

Loss rate: 1.19%

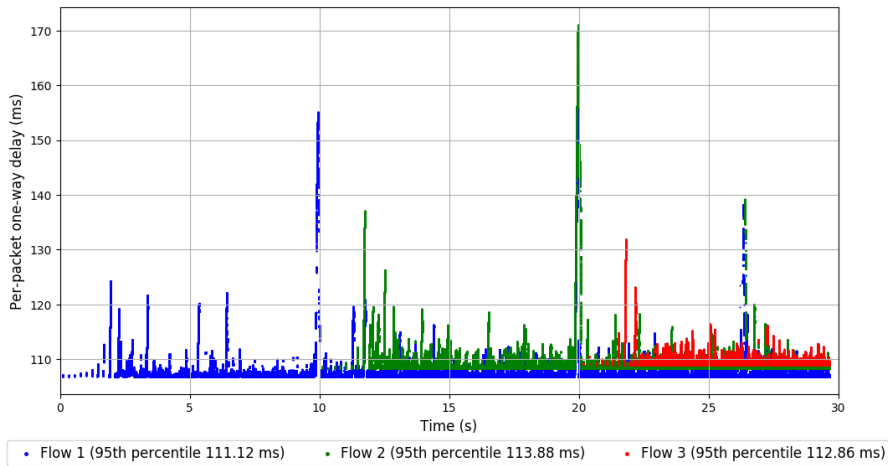
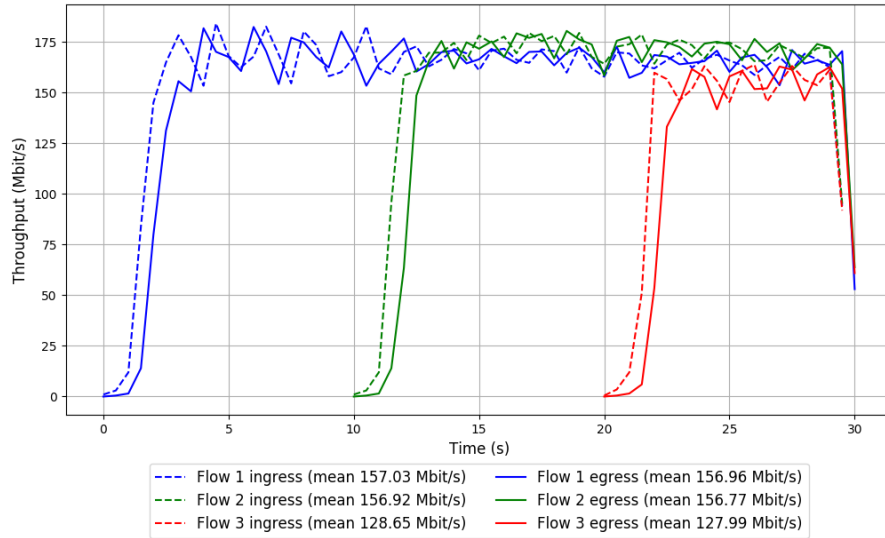
-- Flow 3:

Average throughput: 127.99 Mbit/s

95th percentile per-packet one-way delay: 112.865 ms

Loss rate: 2.72%

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

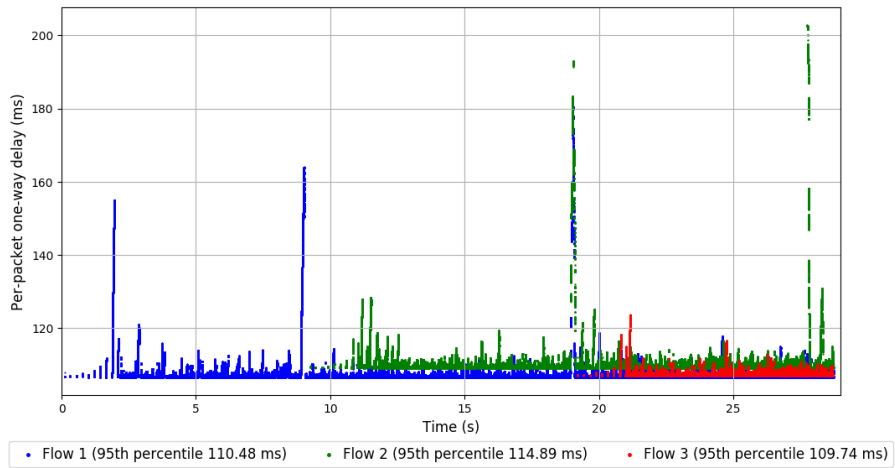
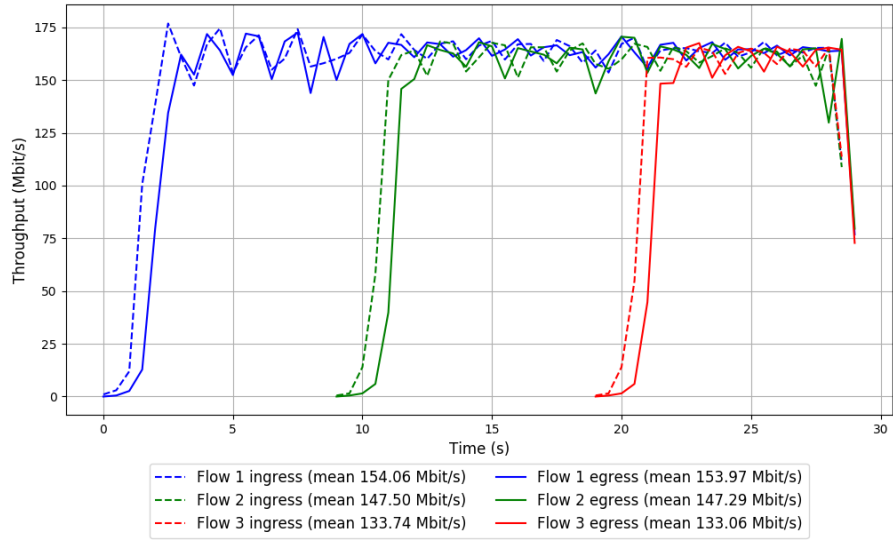


Run 4: Statistics of Indigo

Start at: 2019-10-03 00:47:43  
End at: 2019-10-03 00:48:13  
Local clock offset: -0.202 ms  
Remote clock offset: -0.105 ms

```
# Below is generated by plot.py at 2019-10-03 03:35:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 298.47 Mbit/s
95th percentile per-packet one-way delay: 112.271 ms
Loss rate: 1.23%
-- Flow 1:
Average throughput: 153.97 Mbit/s
95th percentile per-packet one-way delay: 110.478 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 147.29 Mbit/s
95th percentile per-packet one-way delay: 114.890 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 133.06 Mbit/s
95th percentile per-packet one-way delay: 109.744 ms
Loss rate: 2.74%
```

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

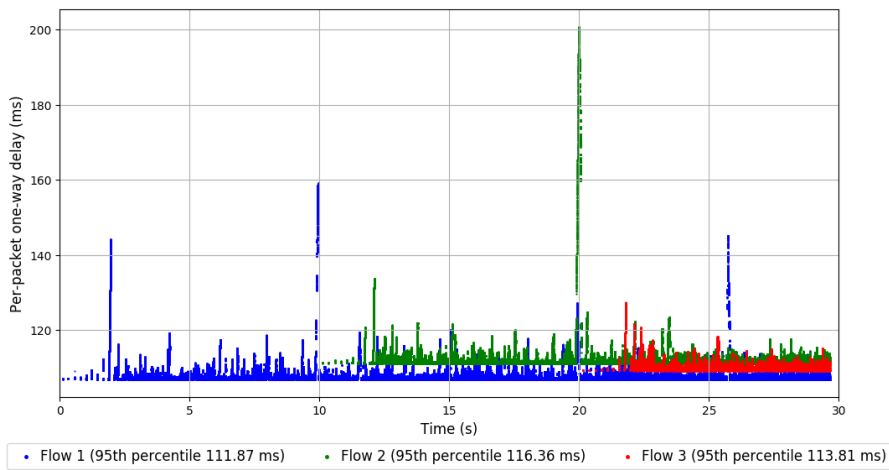
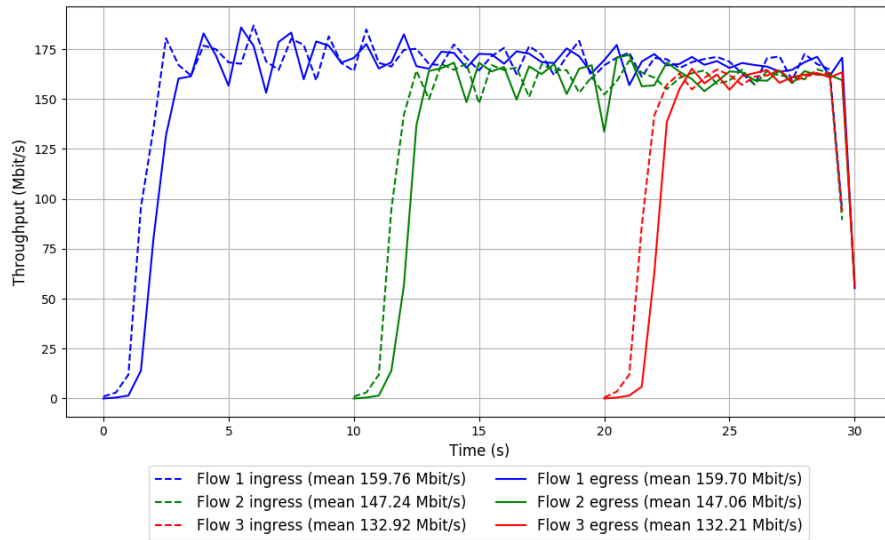


Run 5: Statistics of Indigo

Start at: 2019-10-03 01:30:38  
End at: 2019-10-03 01:31:08  
Local clock offset: -0.075 ms  
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2019-10-03 03:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 299.53 Mbit/s
95th percentile per-packet one-way delay: 114.232 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 159.70 Mbit/s
95th percentile per-packet one-way delay: 111.871 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 147.06 Mbit/s
95th percentile per-packet one-way delay: 116.358 ms
Loss rate: 1.23%
-- Flow 3:
Average throughput: 132.21 Mbit/s
95th percentile per-packet one-way delay: 113.810 ms
Loss rate: 2.76%
```

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





Run 1: Statistics of Indigo-MusesC3

Start at: 2019-10-02 22:52:38

End at: 2019-10-02 22:53:08

Local clock offset: 0.511 ms

Remote clock offset: 0.026 ms

# Below is generated by plot.py at 2019-10-03 03:41:06

# Datalink statistics

-- Total of 3 flows:

Average throughput: 785.48 Mbit/s

95th percentile per-packet one-way delay: 148.831 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 474.78 Mbit/s

95th percentile per-packet one-way delay: 146.026 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 374.08 Mbit/s

95th percentile per-packet one-way delay: 158.509 ms

Loss rate: 1.22%

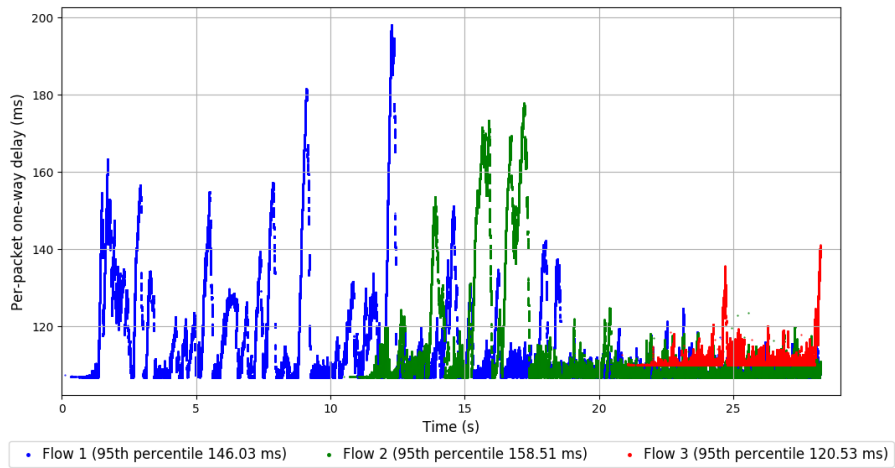
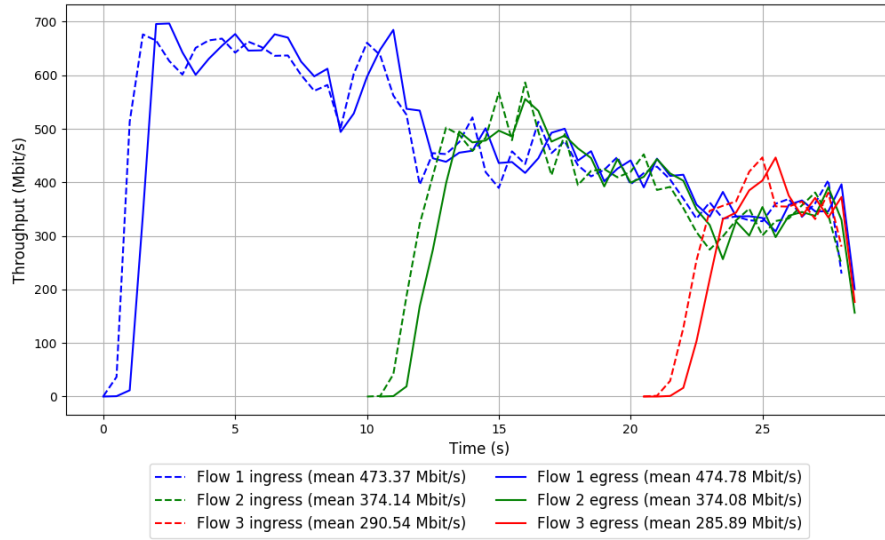
-- Flow 3:

Average throughput: 285.89 Mbit/s

95th percentile per-packet one-way delay: 120.534 ms

Loss rate: 4.46%

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



Run 2: Statistics of Indigo-MusesC3

Start at: 2019-10-02 23:35:24  
End at: 2019-10-02 23:35:54  
Local clock offset: -0.175 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-10-03 03:42:08

# Datalink statistics

-- Total of 3 flows:

Average throughput: 789.61 Mbit/s  
95th percentile per-packet one-way delay: 155.309 ms  
Loss rate: 0.85%

-- Flow 1:

Average throughput: 463.07 Mbit/s  
95th percentile per-packet one-way delay: 160.026 ms  
Loss rate: 0.46%

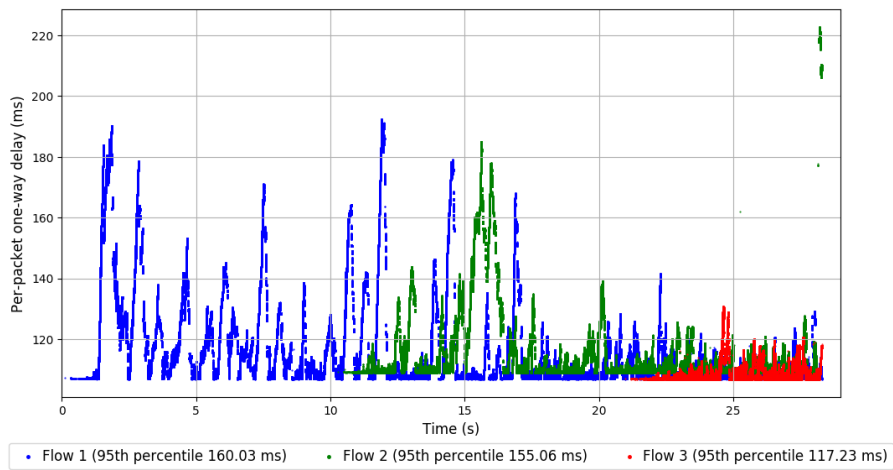
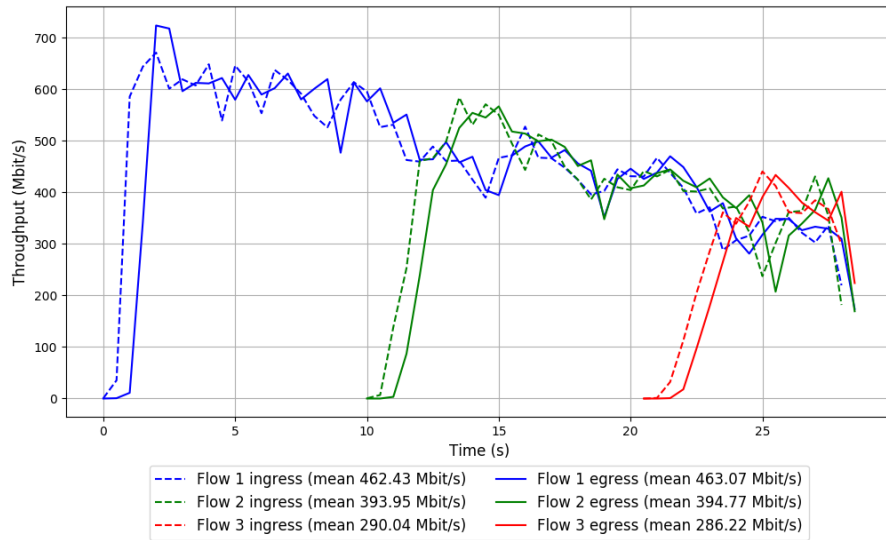
-- Flow 2:

Average throughput: 394.77 Mbit/s  
95th percentile per-packet one-way delay: 155.065 ms  
Loss rate: 0.74%

-- Flow 3:

Average throughput: 286.22 Mbit/s  
95th percentile per-packet one-way delay: 117.233 ms  
Loss rate: 3.57%

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

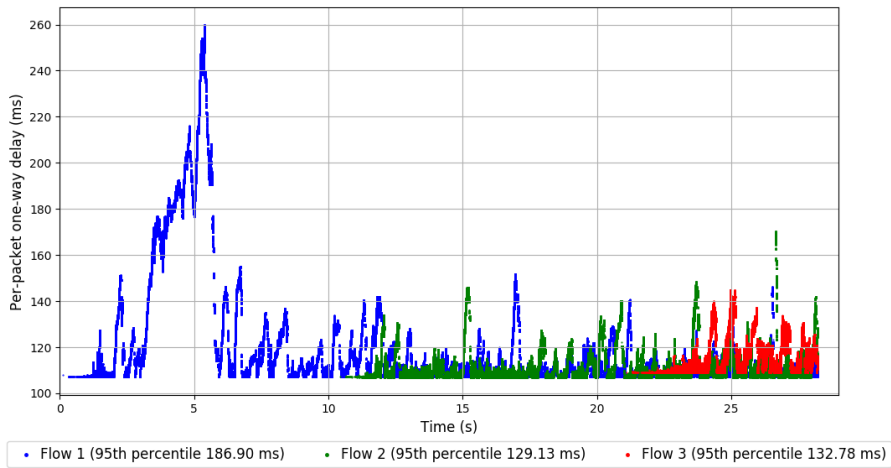
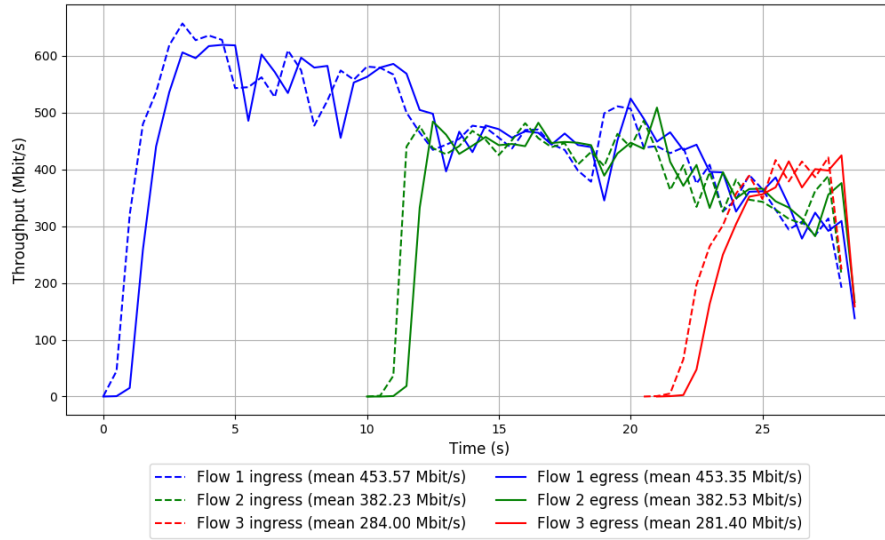


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-10-03 00:18:11  
End at: 2019-10-03 00:18:41  
Local clock offset: -0.112 ms  
Remote clock offset: -0.001 ms

```
# Below is generated by plot.py at 2019-10-03 03:42:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 766.46 Mbit/s
95th percentile per-packet one-way delay: 171.932 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 453.35 Mbit/s
95th percentile per-packet one-way delay: 186.896 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 382.53 Mbit/s
95th percentile per-packet one-way delay: 129.129 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 281.40 Mbit/s
95th percentile per-packet one-way delay: 132.784 ms
Loss rate: 3.85%
```

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

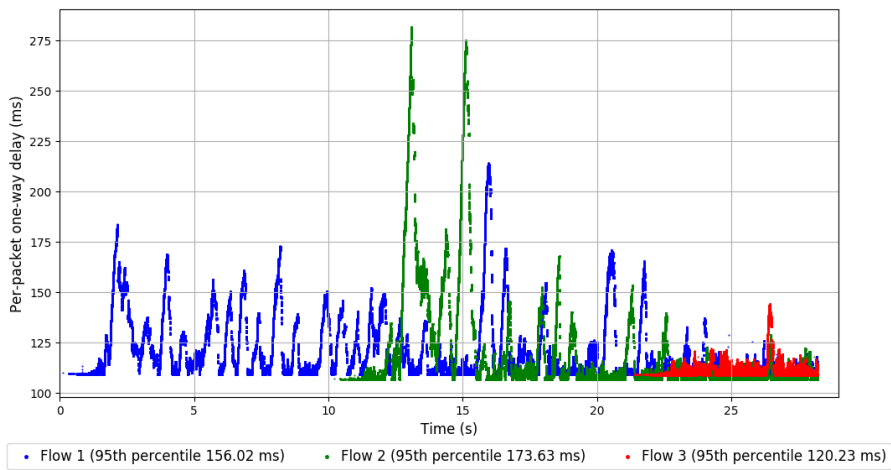
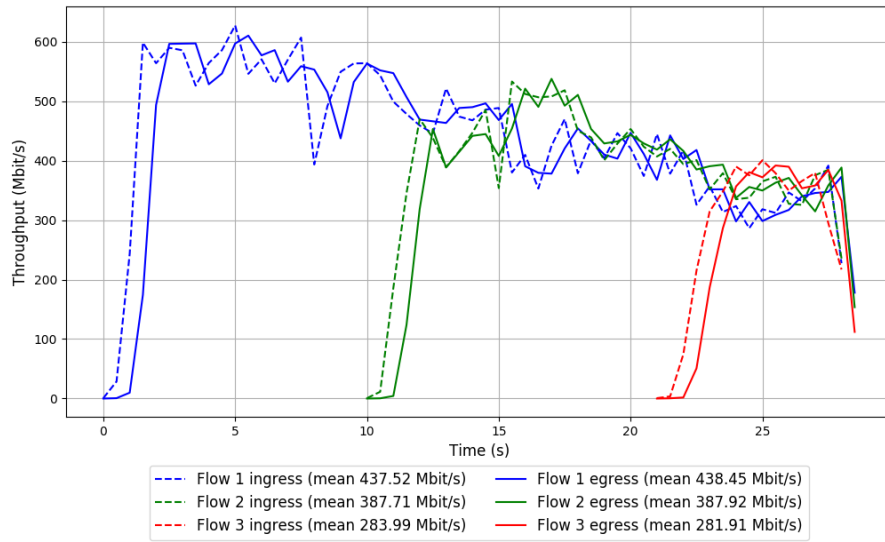


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-10-03 01:01:11  
End at: 2019-10-03 01:01:41  
Local clock offset: 0.009 ms  
Remote clock offset: -0.075 ms

```
# Below is generated by plot.py at 2019-10-03 03:48:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 757.25 Mbit/s
95th percentile per-packet one-way delay: 158.413 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 438.45 Mbit/s
95th percentile per-packet one-way delay: 156.023 ms
Loss rate: 0.56%
-- Flow 2:
Average throughput: 387.92 Mbit/s
95th percentile per-packet one-way delay: 173.635 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 281.91 Mbit/s
95th percentile per-packet one-way delay: 120.234 ms
Loss rate: 3.65%
```

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



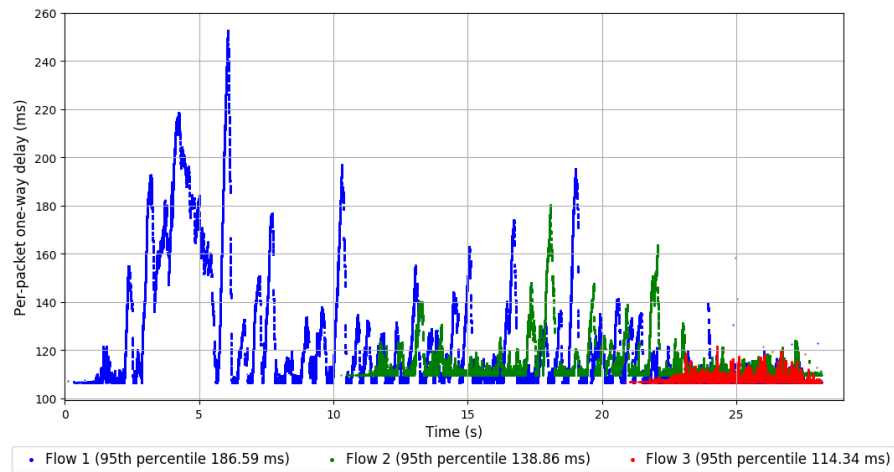
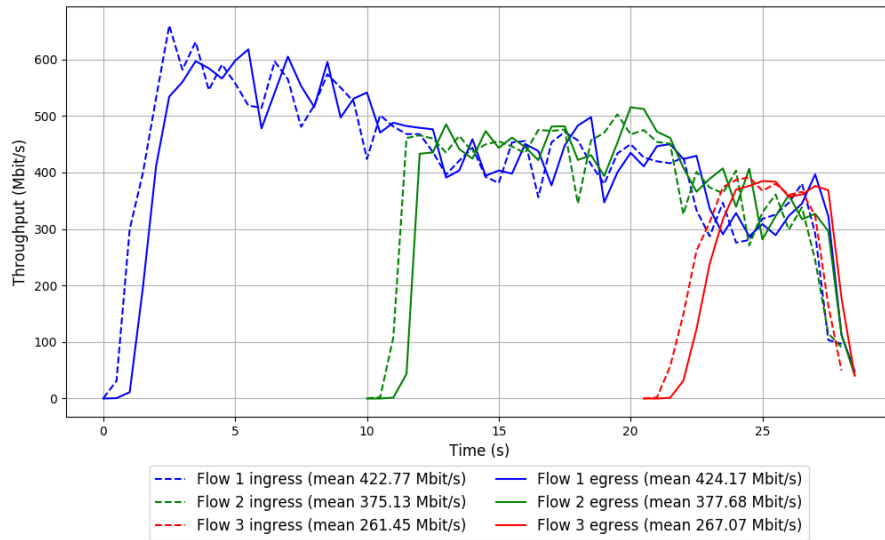


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-10-03 01:43:50  
End at: 2019-10-03 01:44:20  
Local clock offset: -0.066 ms  
Remote clock offset: -0.049 ms

```
# Below is generated by plot.py at 2019-10-03 03:50:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 734.48 Mbit/s
95th percentile per-packet one-way delay: 174.766 ms
Loss rate: 0.47%
-- Flow 1:
Average throughput: 424.17 Mbit/s
95th percentile per-packet one-way delay: 186.589 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 377.68 Mbit/s
95th percentile per-packet one-way delay: 138.860 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 267.07 Mbit/s
95th percentile per-packet one-way delay: 114.345 ms
Loss rate: 0.99%
```

### Run 5: Report of Indigo-MusesC3 — Data Link



Run 1: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:09:03

End at: 2019-10-02 23:09:33

Local clock offset: 0.331 ms

Remote clock offset: 0.038 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 699.69 Mbit/s

95th percentile per-packet one-way delay: 178.003 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 405.25 Mbit/s

95th percentile per-packet one-way delay: 179.229 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 317.54 Mbit/s

95th percentile per-packet one-way delay: 189.267 ms

Loss rate: 1.12%

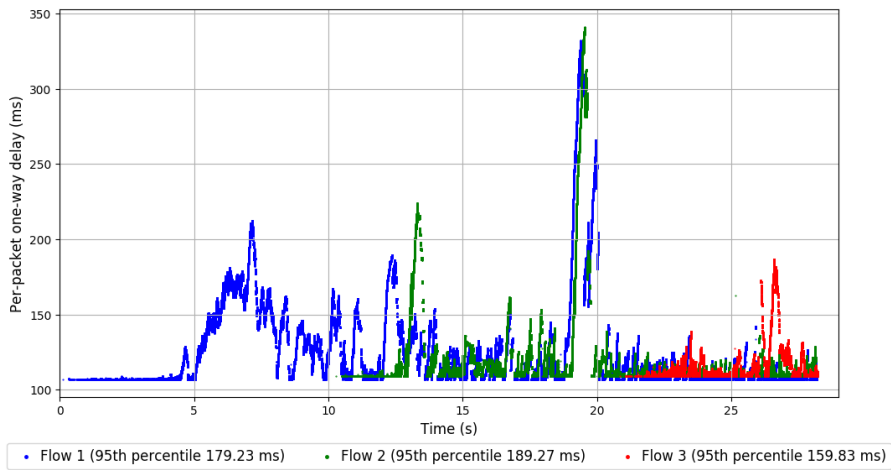
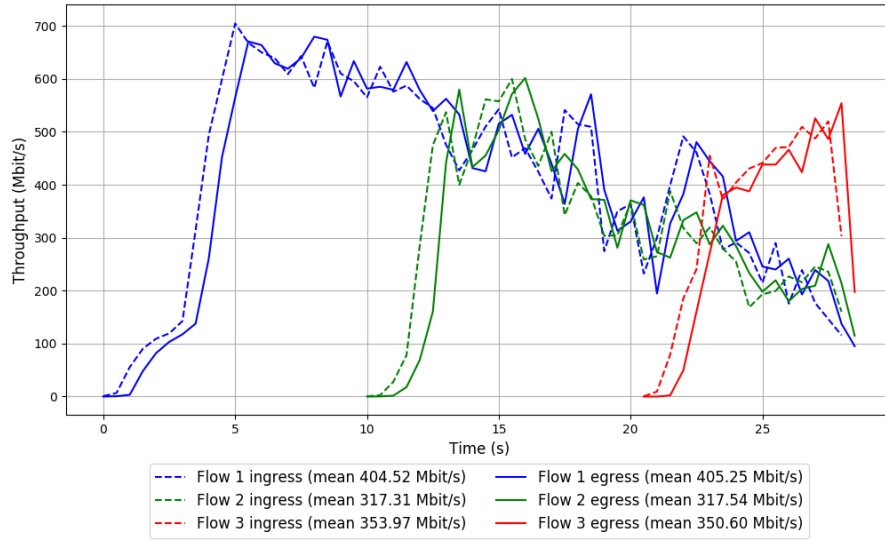
-- Flow 3:

Average throughput: 350.60 Mbit/s

95th percentile per-packet one-way delay: 159.832 ms

Loss rate: 3.77%

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



Run 2: Statistics of Indigo-MusesC5

Start at: 2019-10-02 23:51:41

End at: 2019-10-02 23:52:11

Local clock offset: -0.045 ms

Remote clock offset: 0.029 ms

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

# Datalink statistics

-- Total of 3 flows:

Average throughput: 629.29 Mbit/s

95th percentile per-packet one-way delay: 220.451 ms

Loss rate: 1.75%

-- Flow 1:

Average throughput: 366.86 Mbit/s

95th percentile per-packet one-way delay: 198.495 ms

Loss rate: 1.06%

-- Flow 2:

Average throughput: 347.13 Mbit/s

95th percentile per-packet one-way delay: 237.061 ms

Loss rate: 1.54%

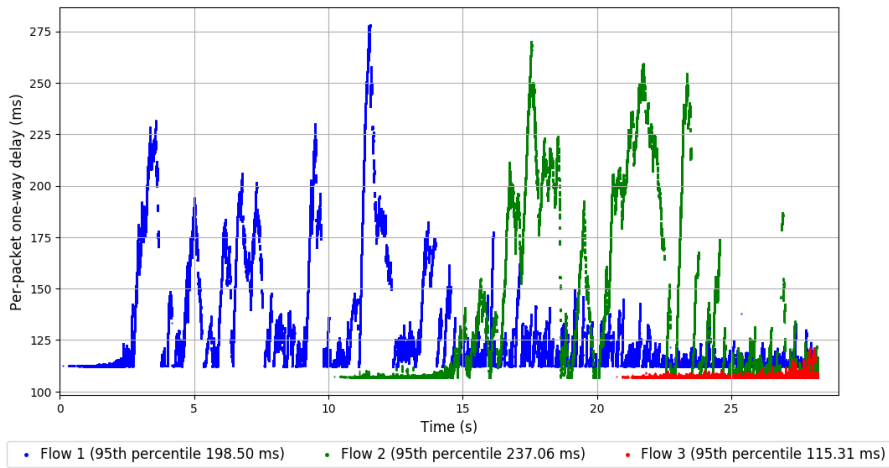
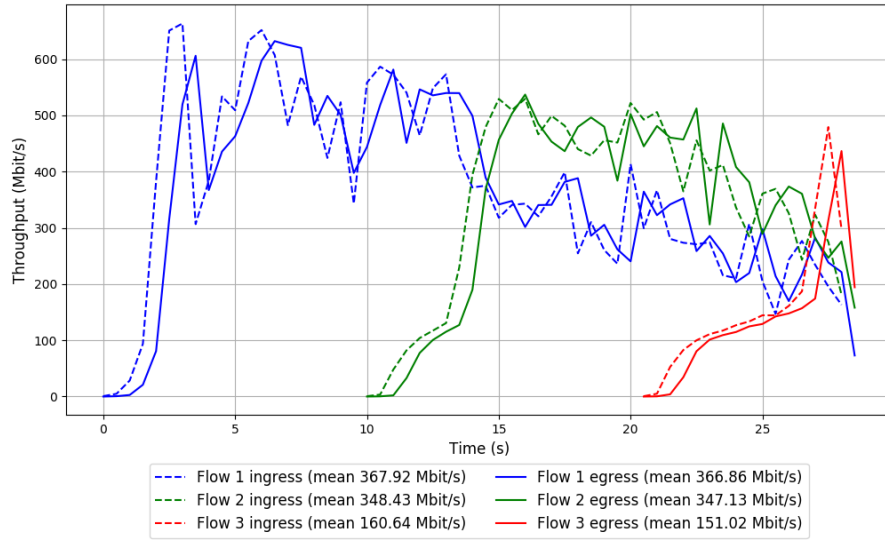
-- Flow 3:

Average throughput: 151.02 Mbit/s

95th percentile per-packet one-way delay: 115.312 ms

Loss rate: 8.65%

Run 2: Report of Indigo-MusesC5 — Data Link

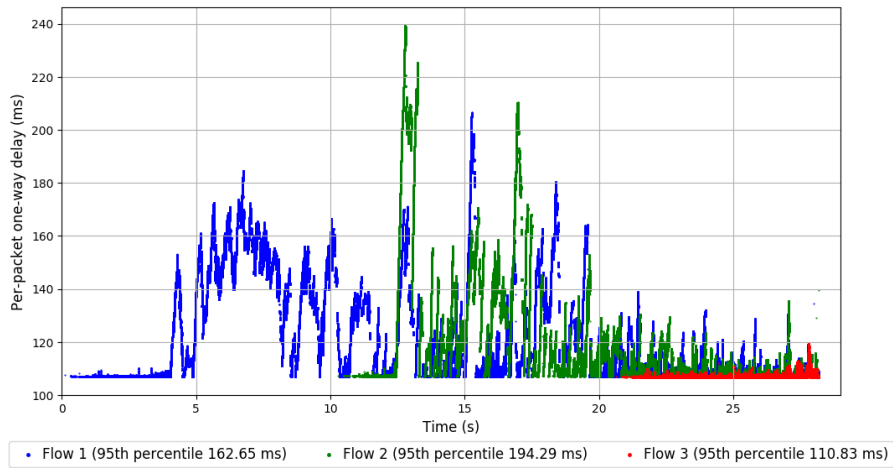
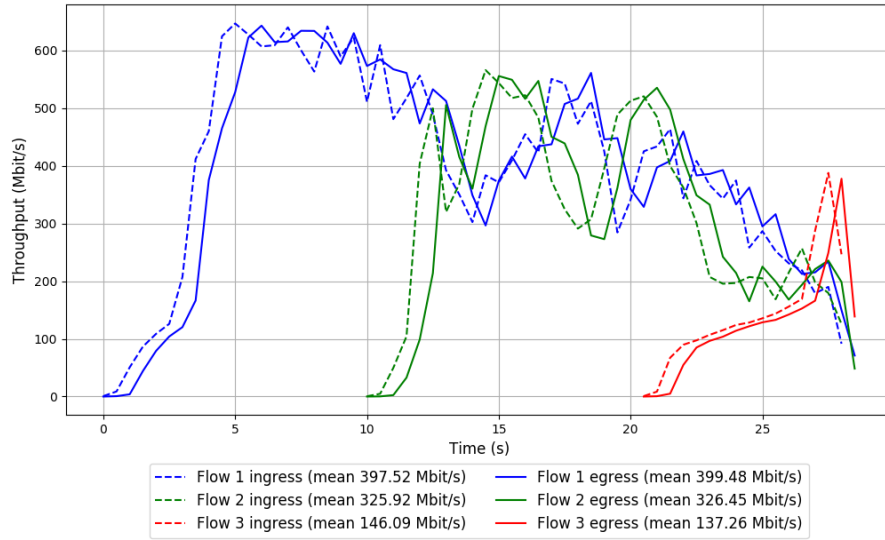


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-10-03 00:34:35  
End at: 2019-10-03 00:35:05  
Local clock offset: -0.029 ms  
Remote clock offset: -0.079 ms

```
# Below is generated by plot.py at 2019-10-03 03:50:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 644.54 Mbit/s
95th percentile per-packet one-way delay: 165.557 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 399.48 Mbit/s
95th percentile per-packet one-way delay: 162.649 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 326.45 Mbit/s
95th percentile per-packet one-way delay: 194.292 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 137.26 Mbit/s
95th percentile per-packet one-way delay: 110.828 ms
Loss rate: 8.63%
```

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



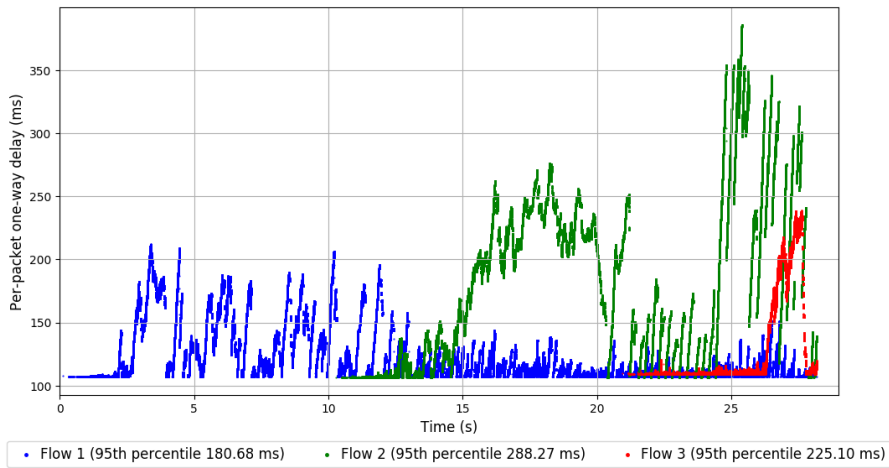
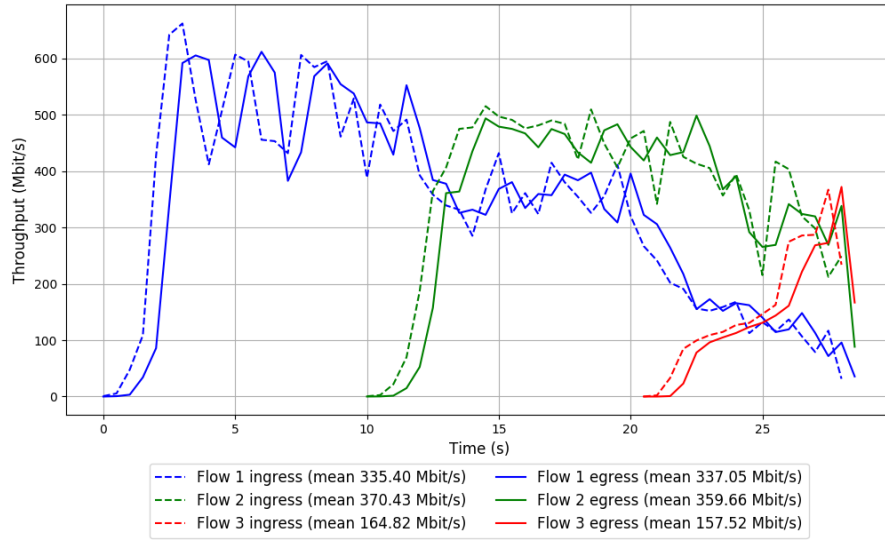


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-10-03 01:17:39  
End at: 2019-10-03 01:18:09  
Local clock offset: 0.126 ms  
Remote clock offset: -0.075 ms

```
# Below is generated by plot.py at 2019-10-03 03:54:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 606.98 Mbit/s
95th percentile per-packet one-way delay: 246.679 ms
Loss rate: 2.23%
-- Flow 1:
Average throughput: 337.05 Mbit/s
95th percentile per-packet one-way delay: 180.681 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 359.66 Mbit/s
95th percentile per-packet one-way delay: 288.270 ms
Loss rate: 4.06%
-- Flow 3:
Average throughput: 157.52 Mbit/s
95th percentile per-packet one-way delay: 225.105 ms
Loss rate: 7.39%
```

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

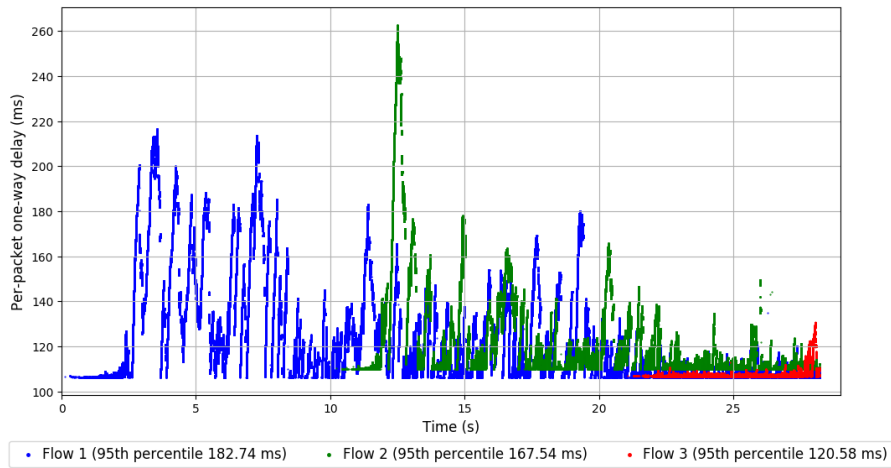
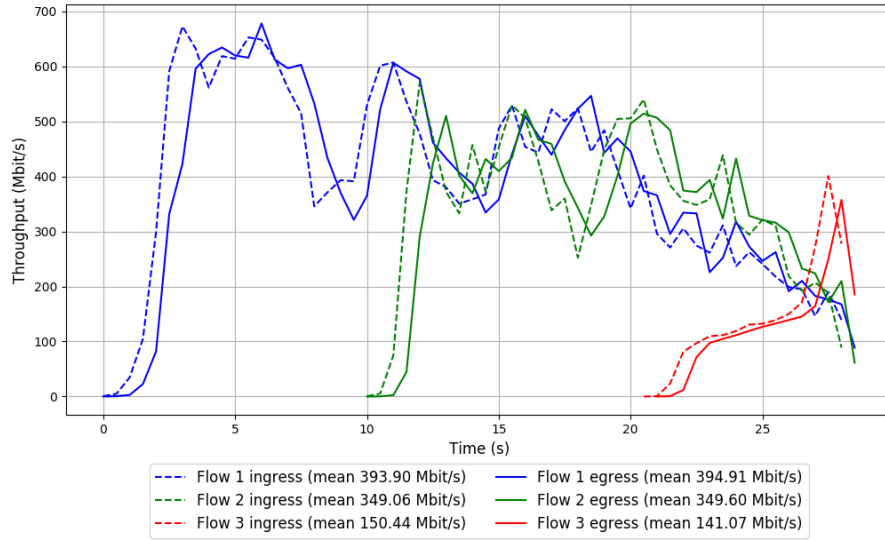


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-10-03 02:00:15  
End at: 2019-10-03 02:00:45  
Local clock offset: 0.071 ms  
Remote clock offset: -0.039 ms

```
# Below is generated by plot.py at 2019-10-03 03:56:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 654.40 Mbit/s
95th percentile per-packet one-way delay: 179.739 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 394.91 Mbit/s
95th percentile per-packet one-way delay: 182.735 ms
Loss rate: 0.49%
-- Flow 2:
Average throughput: 349.60 Mbit/s
95th percentile per-packet one-way delay: 167.539 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 141.07 Mbit/s
95th percentile per-packet one-way delay: 120.578 ms
Loss rate: 8.94%
```

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



Run 1: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:16:52

End at: 2019-10-02 23:17:22

Local clock offset: 0.107 ms

Remote clock offset: -0.08 ms

# Below is generated by plot.py at 2019-10-03 03:56:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 665.53 Mbit/s

95th percentile per-packet one-way delay: 171.111 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 393.20 Mbit/s

95th percentile per-packet one-way delay: 179.937 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 383.10 Mbit/s

95th percentile per-packet one-way delay: 133.122 ms

Loss rate: 1.25%

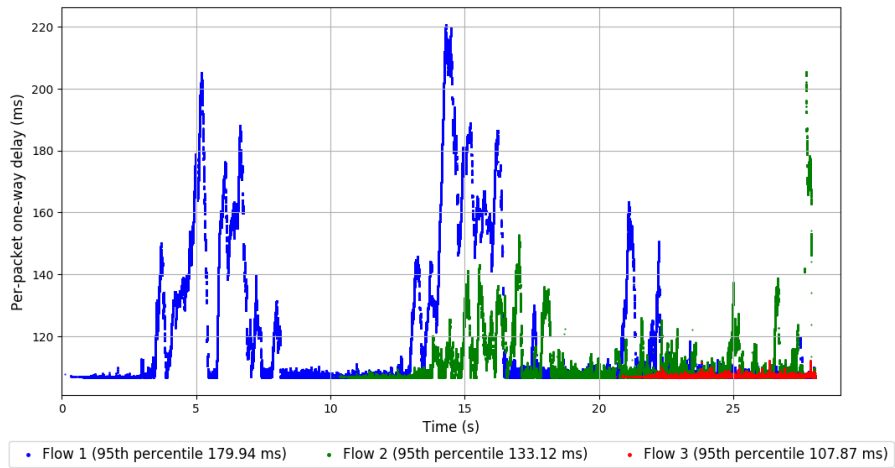
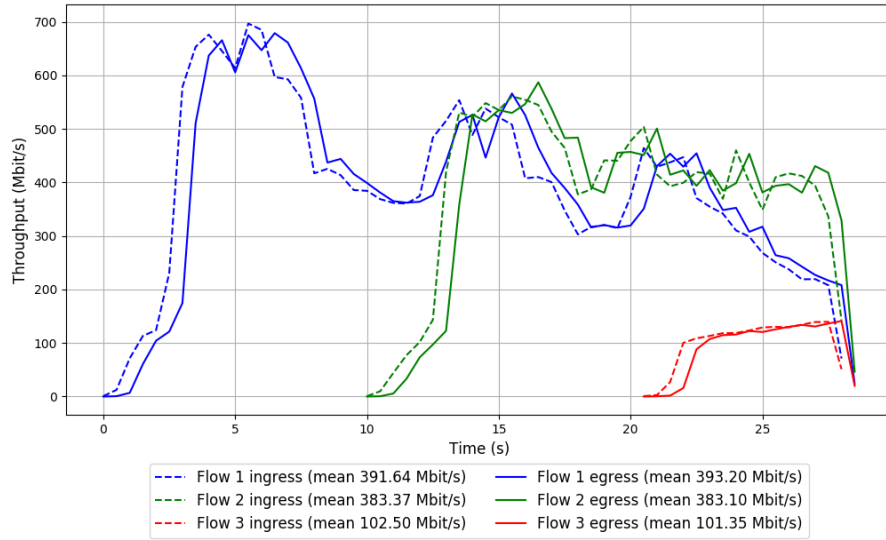
-- Flow 3:

Average throughput: 101.35 Mbit/s

95th percentile per-packet one-way delay: 107.873 ms

Loss rate: 3.88%

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



Run 2: Statistics of Indigo-MusesD

Start at: 2019-10-02 23:59:16

End at: 2019-10-02 23:59:46

Local clock offset: -0.118 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-10-03 04:03:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 716.95 Mbit/s

95th percentile per-packet one-way delay: 163.437 ms

Loss rate: 0.88%

-- Flow 1:

Average throughput: 431.92 Mbit/s

95th percentile per-packet one-way delay: 160.586 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 405.15 Mbit/s

95th percentile per-packet one-way delay: 166.309 ms

Loss rate: 0.91%

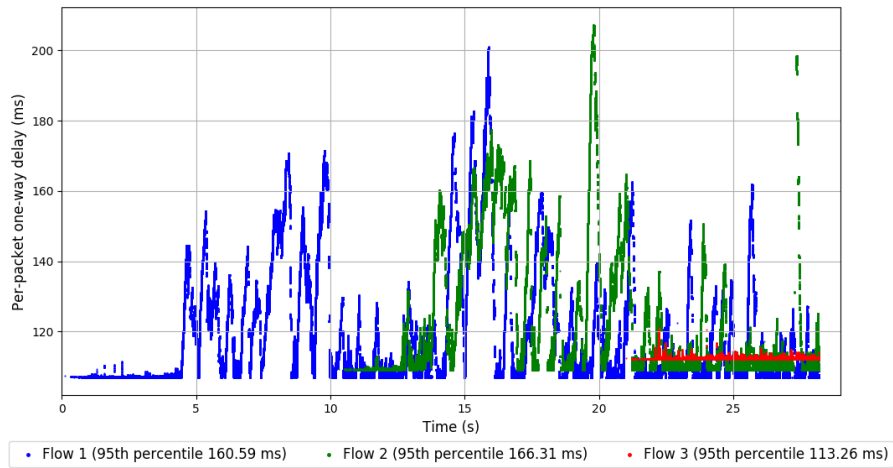
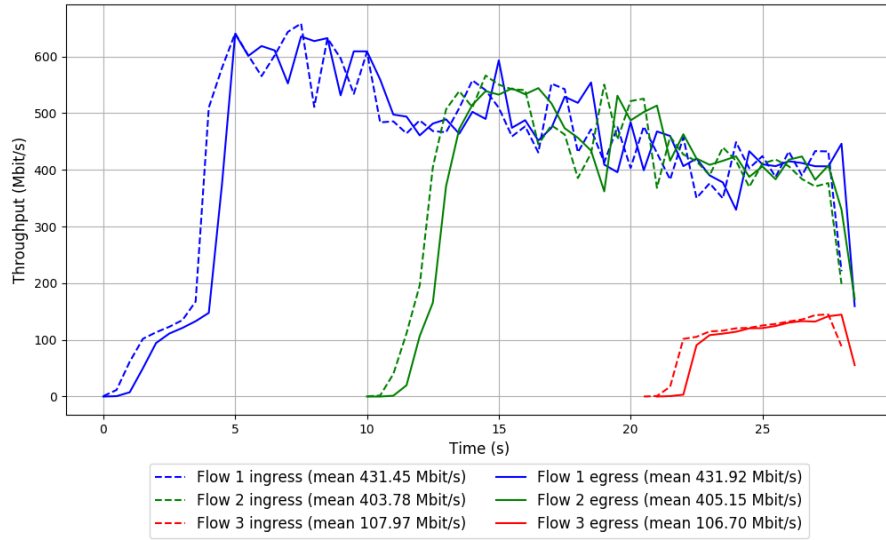
-- Flow 3:

Average throughput: 106.70 Mbit/s

95th percentile per-packet one-way delay: 113.260 ms

Loss rate: 4.13%

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



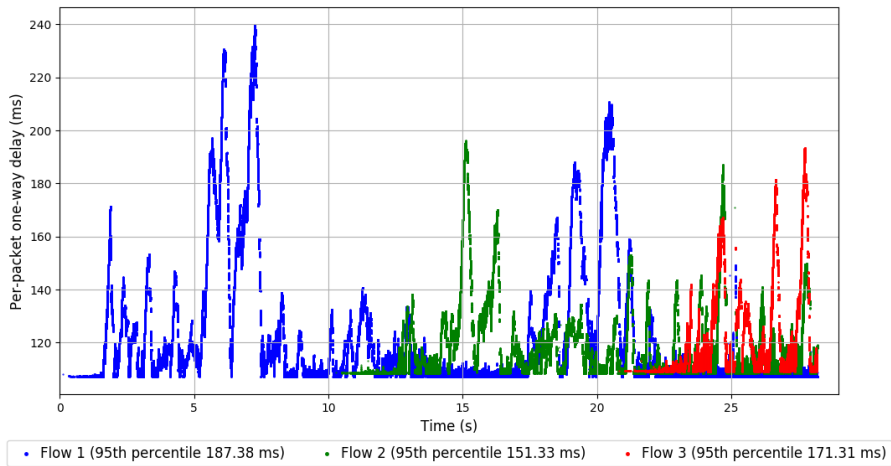
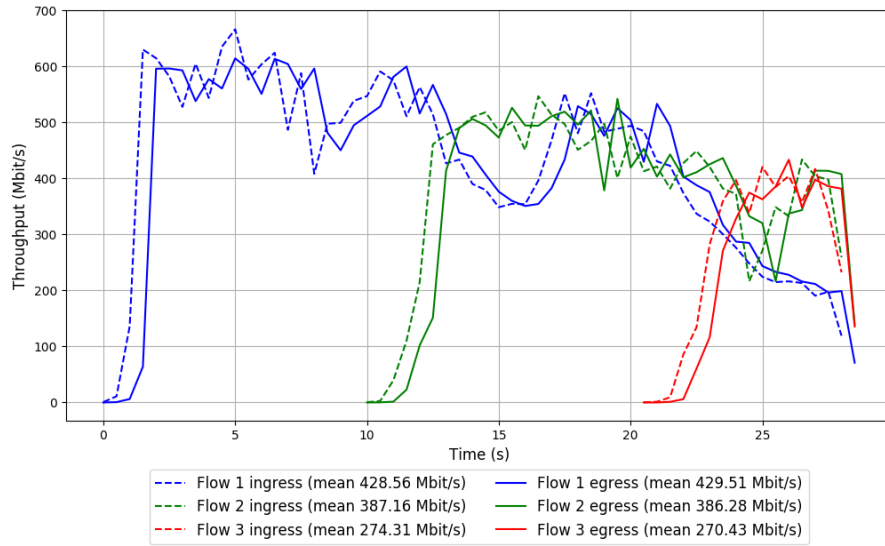


Run 3: Statistics of Indigo-MusesD

Start at: 2019-10-03 00:42:14  
End at: 2019-10-03 00:42:44  
Local clock offset: 0.013 ms  
Remote clock offset: -0.099 ms

```
# Below is generated by plot.py at 2019-10-03 04:04:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 746.99 Mbit/s
95th percentile per-packet one-way delay: 177.865 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 429.51 Mbit/s
95th percentile per-packet one-way delay: 187.384 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 386.28 Mbit/s
95th percentile per-packet one-way delay: 151.329 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 270.43 Mbit/s
95th percentile per-packet one-way delay: 171.313 ms
Loss rate: 4.26%
```

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



Run 4: Statistics of Indigo-MusesD

Start at: 2019-10-03 01:25:17

End at: 2019-10-03 01:25:47

Local clock offset: 0.684 ms

Remote clock offset: -0.05 ms

# Below is generated by plot.py at 2019-10-03 04:05:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 714.53 Mbit/s

95th percentile per-packet one-way delay: 175.681 ms

Loss rate: 1.13%

-- Flow 1:

Average throughput: 407.30 Mbit/s

95th percentile per-packet one-way delay: 183.559 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 373.75 Mbit/s

95th percentile per-packet one-way delay: 155.501 ms

Loss rate: 1.14%

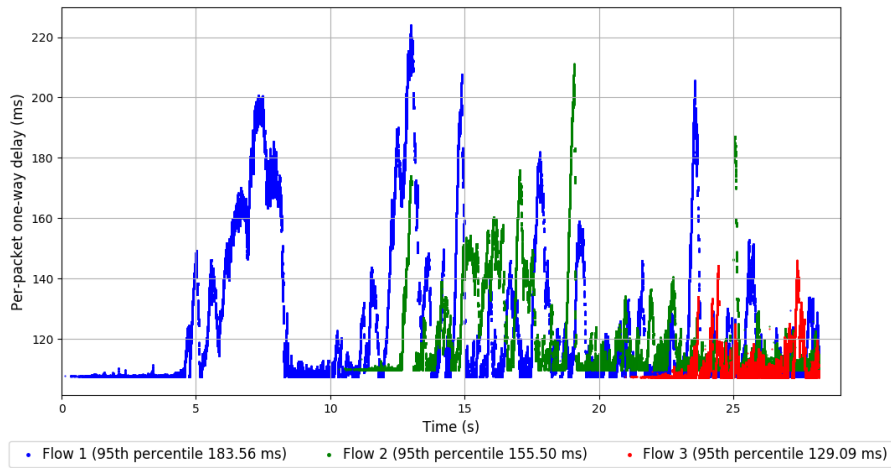
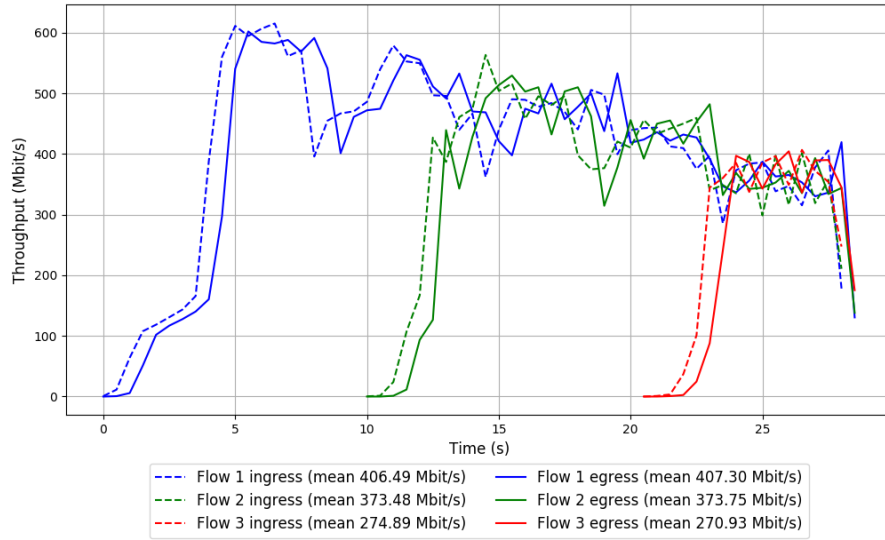
-- Flow 3:

Average throughput: 270.93 Mbit/s

95th percentile per-packet one-way delay: 129.087 ms

Loss rate: 4.27%

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

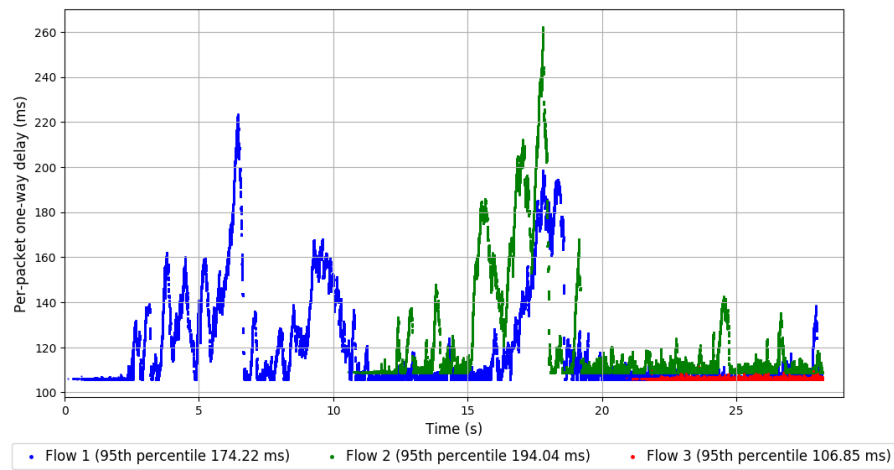
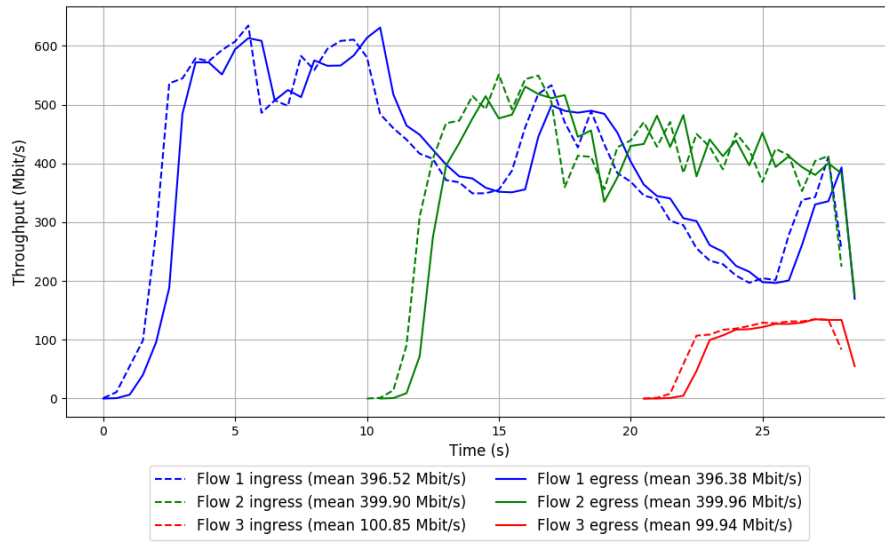


Run 5: Statistics of Indigo-MusesD

Start at: 2019-10-03 02:07:52  
End at: 2019-10-03 02:08:22  
Local clock offset: -0.334 ms  
Remote clock offset: -0.024 ms

# Below is generated by plot.py at 2019-10-03 04:05:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 673.89 Mbit/s  
95th percentile per-packet one-way delay: 180.109 ms  
Loss rate: 1.08%  
-- Flow 1:  
Average throughput: 396.38 Mbit/s  
95th percentile per-packet one-way delay: 174.215 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 399.96 Mbit/s  
95th percentile per-packet one-way delay: 194.037 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 99.94 Mbit/s  
95th percentile per-packet one-way delay: 106.854 ms  
Loss rate: 3.84%

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



Run 1: Statistics of Indigo-MuseST

Start at: 2019-10-02 23:10:58

End at: 2019-10-02 23:11:28

Local clock offset: 0.283 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-10-03 04:08:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 827.00 Mbit/s

95th percentile per-packet one-way delay: 198.405 ms

Loss rate: 1.56%

-- Flow 1:

Average throughput: 495.90 Mbit/s

95th percentile per-packet one-way delay: 201.731 ms

Loss rate: 1.18%

-- Flow 2:

Average throughput: 407.07 Mbit/s

95th percentile per-packet one-way delay: 190.480 ms

Loss rate: 1.51%

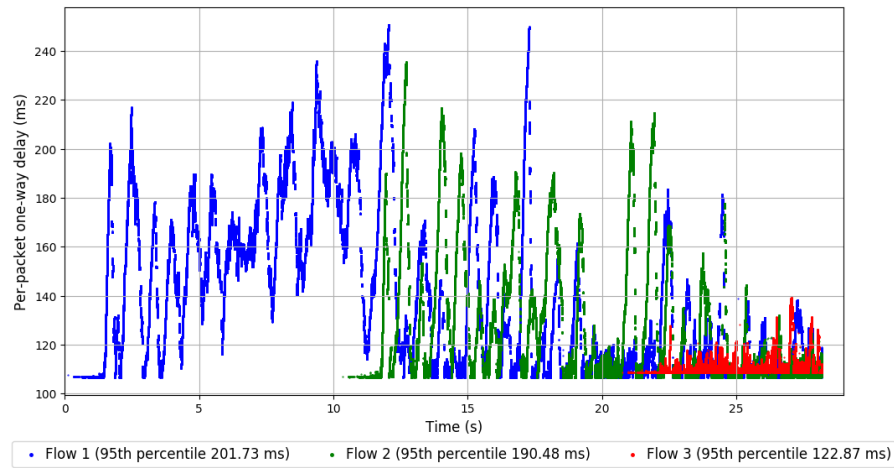
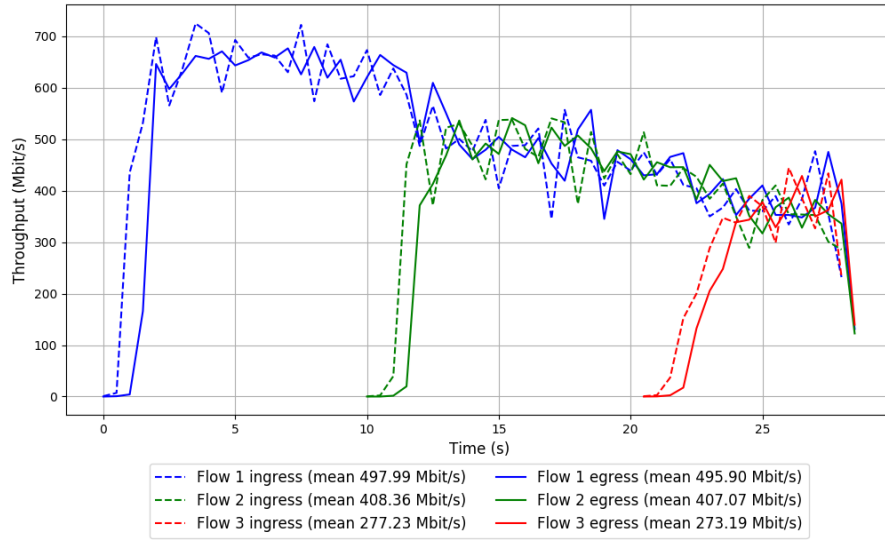
-- Flow 3:

Average throughput: 273.19 Mbit/s

95th percentile per-packet one-way delay: 122.871 ms

Loss rate: 4.26%

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



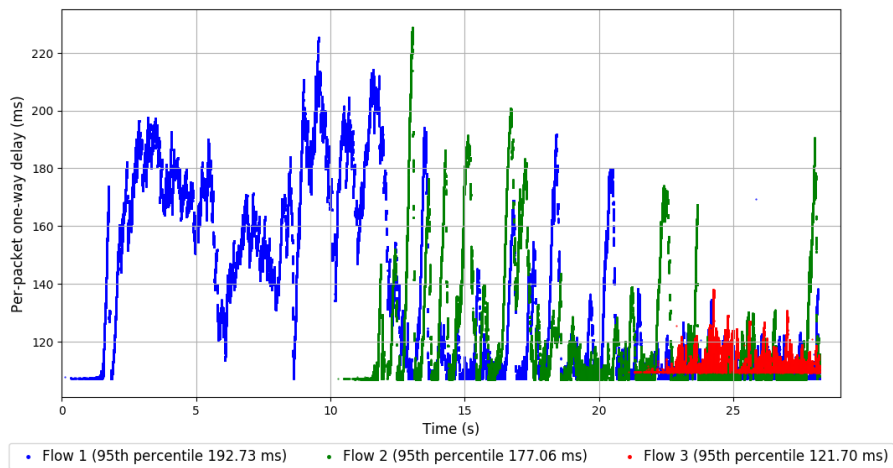
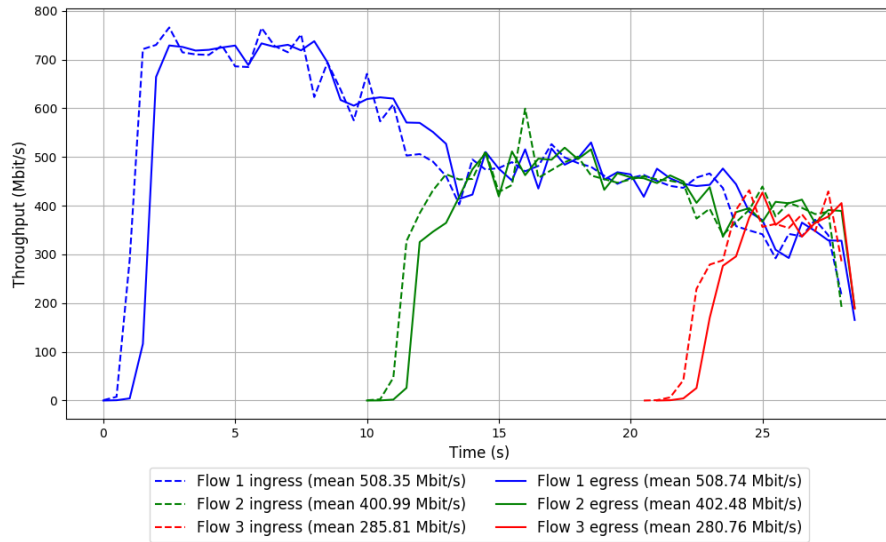


Run 2: Statistics of Indigo-MuseST

Start at: 2019-10-02 23:53:33  
End at: 2019-10-02 23:54:03  
Local clock offset: 0.014 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-10-03 04:12:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 836.50 Mbit/s  
95th percentile per-packet one-way delay: 189.620 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 508.74 Mbit/s  
95th percentile per-packet one-way delay: 192.729 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 402.48 Mbit/s  
95th percentile per-packet one-way delay: 177.062 ms  
Loss rate: 0.71%  
-- Flow 3:  
Average throughput: 280.76 Mbit/s  
95th percentile per-packet one-way delay: 121.702 ms  
Loss rate: 4.69%

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

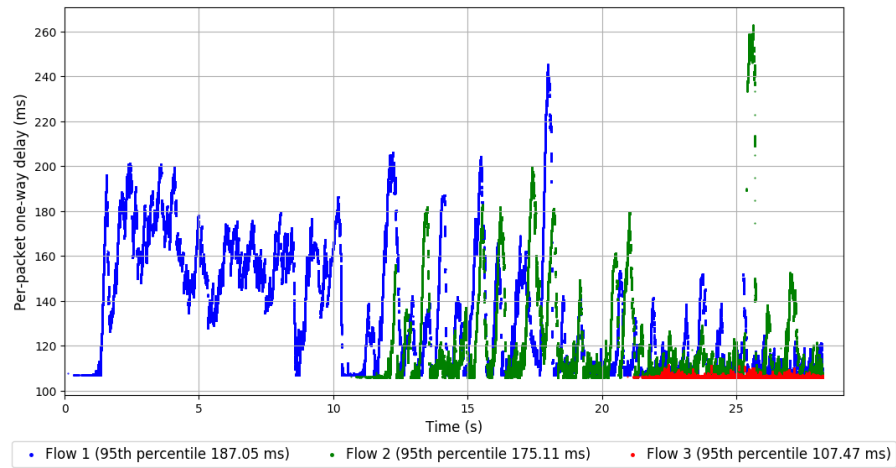
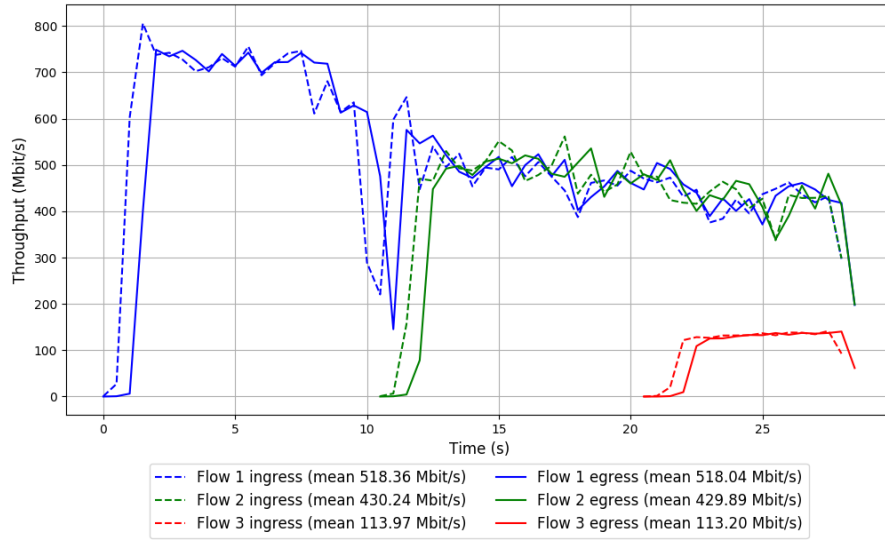


Run 3: Statistics of Indigo-MuseST

Start at: 2019-10-03 00:36:27  
End at: 2019-10-03 00:36:57  
Local clock offset: -0.11 ms  
Remote clock offset: -0.049 ms

```
# Below is generated by plot.py at 2019-10-03 04:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 816.11 Mbit/s
95th percentile per-packet one-way delay: 183.833 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 518.04 Mbit/s
95th percentile per-packet one-way delay: 187.047 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 429.89 Mbit/s
95th percentile per-packet one-way delay: 175.108 ms
Loss rate: 1.28%
-- Flow 3:
Average throughput: 113.20 Mbit/s
95th percentile per-packet one-way delay: 107.468 ms
Loss rate: 3.51%
```

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

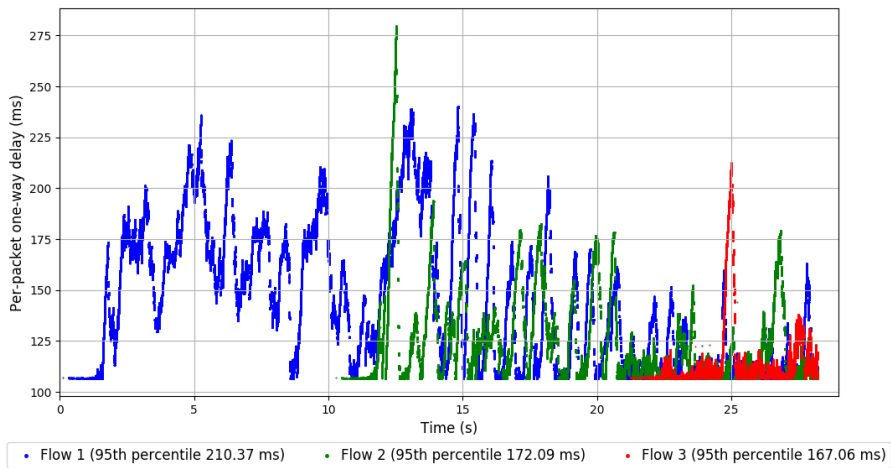
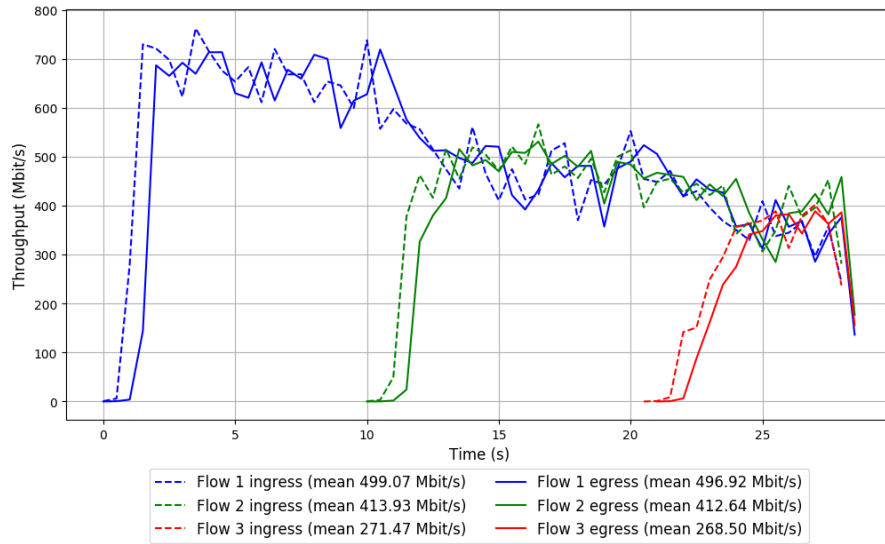


Run 4: Statistics of Indigo-MuseST

Start at: 2019-10-03 01:19:31  
End at: 2019-10-03 01:20:01  
Local clock offset: -0.152 ms  
Remote clock offset: -0.079 ms

```
# Below is generated by plot.py at 2019-10-03 04:15:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 828.93 Mbit/s
95th percentile per-packet one-way delay: 203.195 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 496.92 Mbit/s
95th percentile per-packet one-way delay: 210.369 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 412.64 Mbit/s
95th percentile per-packet one-way delay: 172.090 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 268.50 Mbit/s
95th percentile per-packet one-way delay: 167.060 ms
Loss rate: 3.98%
```

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



Run 5: Statistics of Indigo-MuseST

Start at: 2019-10-03 02:02:08  
End at: 2019-10-03 02:02:38  
Local clock offset: -0.045 ms  
Remote clock offset: -0.027 ms

# Below is generated by plot.py at 2019-10-03 04:20:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 768.81 Mbit/s  
95th percentile per-packet one-way delay: 199.593 ms  
Loss rate: 1.58%

-- Flow 1:

Average throughput: 446.30 Mbit/s  
95th percentile per-packet one-way delay: 206.834 ms  
Loss rate: 1.19%

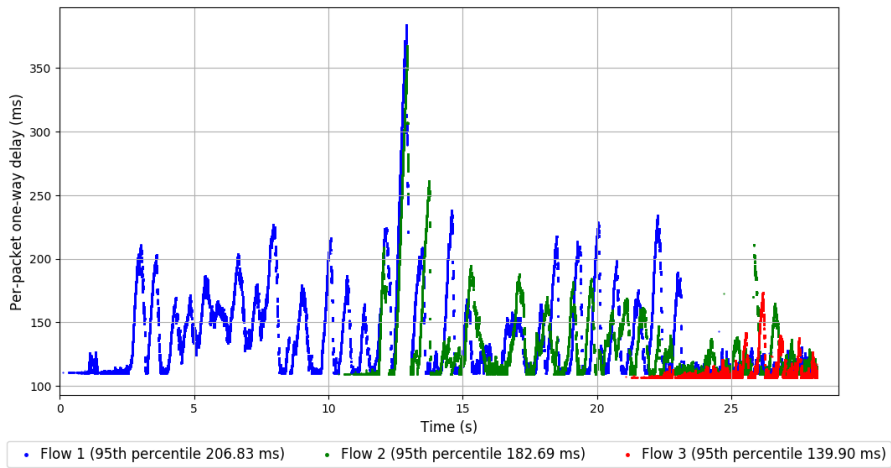
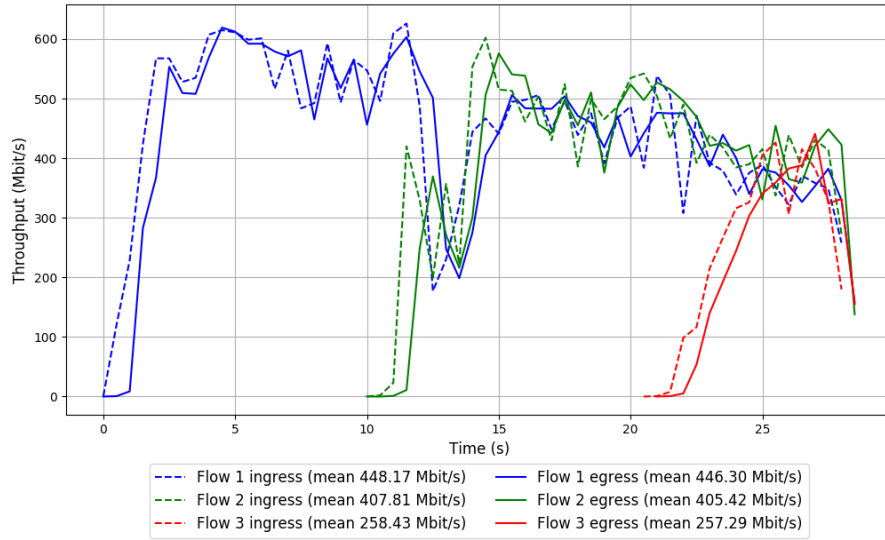
-- Flow 2:

Average throughput: 405.42 Mbit/s  
95th percentile per-packet one-way delay: 182.690 ms  
Loss rate: 1.79%

-- Flow 3:

Average throughput: 257.29 Mbit/s  
95th percentile per-packet one-way delay: 139.897 ms  
Loss rate: 3.38%

Run 5: Report of Indigo-MusesT — Data Link





Run 1: Statistics of LEDBAT

Start at: 2019-10-02 23:07:44

End at: 2019-10-02 23:08:14

Local clock offset: 0.464 ms

Remote clock offset: 0.042 ms

# Below is generated by plot.py at 2019-10-03 04:20:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.04 Mbit/s

95th percentile per-packet one-way delay: 110.521 ms

Loss rate: 1.88%

-- Flow 1:

Average throughput: 7.71 Mbit/s

95th percentile per-packet one-way delay: 110.842 ms

Loss rate: 1.47%

-- Flow 2:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 107.789 ms

Loss rate: 2.17%

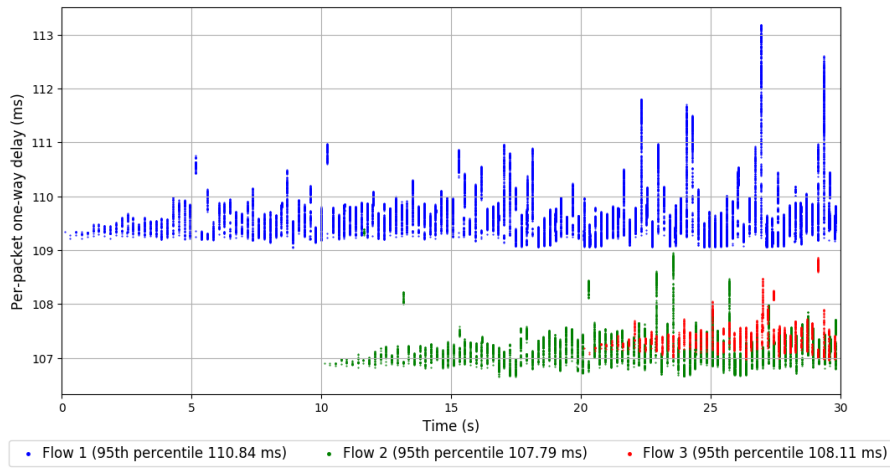
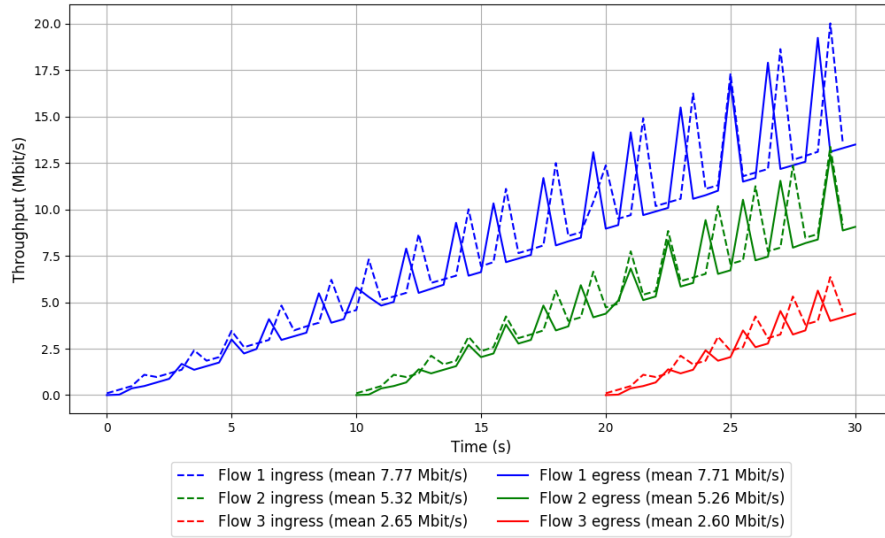
-- Flow 3:

Average throughput: 2.60 Mbit/s

95th percentile per-packet one-way delay: 108.113 ms

Loss rate: 4.33%

# Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2019-10-02 23:50:23

End at: 2019-10-02 23:50:53

Local clock offset: 0.001 ms

Remote clock offset: 0.022 ms

# Below is generated by plot.py at 2019-10-03 04:20:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.09 Mbit/s

95th percentile per-packet one-way delay: 110.692 ms

Loss rate: 1.86%

-- Flow 1:

Average throughput: 7.80 Mbit/s

95th percentile per-packet one-way delay: 111.197 ms

Loss rate: 1.46%

-- Flow 2:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 108.587 ms

Loss rate: 2.17%

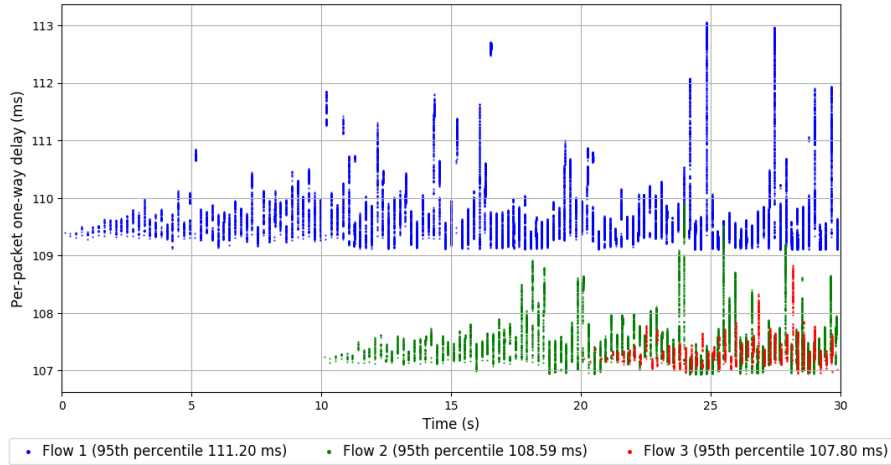
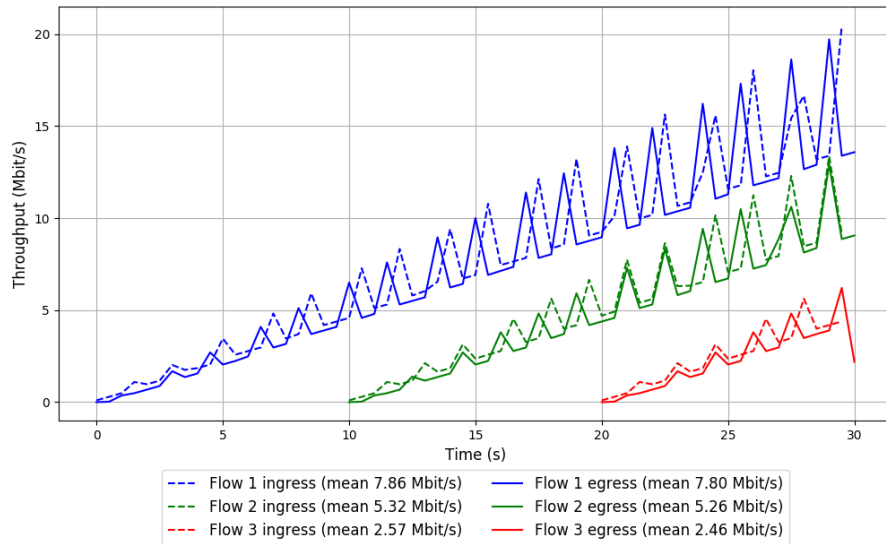
-- Flow 3:

Average throughput: 2.46 Mbit/s

95th percentile per-packet one-way delay: 107.800 ms

Loss rate: 4.38%

## Run 2: Report of LEDBAT — Data Link



Run 3: Statistics of LEDBAT

Start at: 2019-10-03 00:33:17  
End at: 2019-10-03 00:33:47  
Local clock offset: -0.219 ms  
Remote clock offset: -0.055 ms

# Below is generated by plot.py at 2019-10-03 04:20:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.40 Mbit/s  
95th percentile per-packet one-way delay: 107.955 ms  
Loss rate: 1.84%

-- Flow 1:

Average throughput: 8.08 Mbit/s  
95th percentile per-packet one-way delay: 107.915 ms  
Loss rate: 1.44%

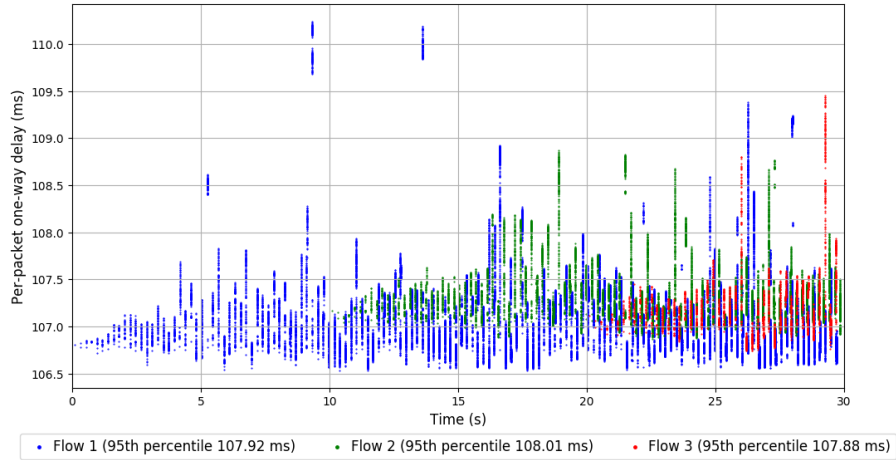
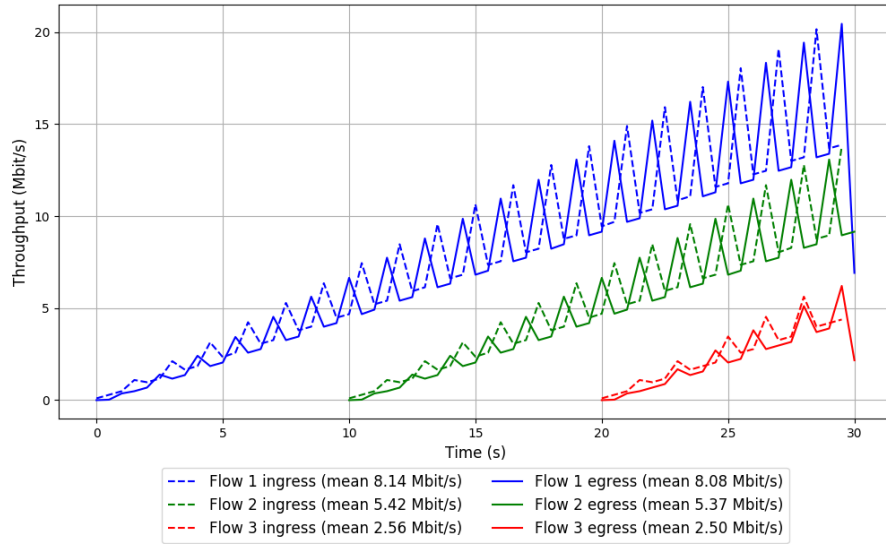
-- Flow 2:

Average throughput: 5.37 Mbit/s  
95th percentile per-packet one-way delay: 108.009 ms  
Loss rate: 2.15%

-- Flow 3:

Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 107.883 ms  
Loss rate: 4.43%

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

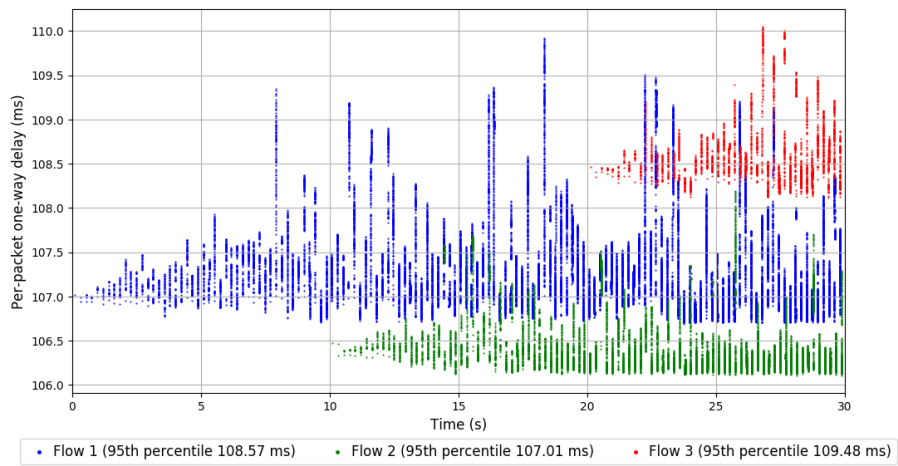
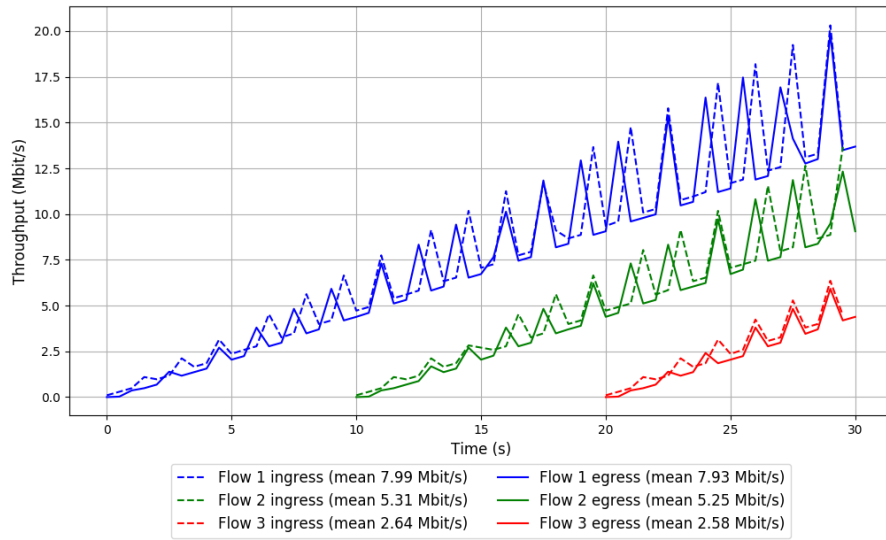


Run 4: Statistics of LEDBAT

Start at: 2019-10-03 01:16:20  
End at: 2019-10-03 01:16:50  
Local clock offset: -0.193 ms  
Remote clock offset: -0.052 ms

```
# Below is generated by plot.py at 2019-10-03 04:20:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 108.682 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 7.93 Mbit/s
95th percentile per-packet one-way delay: 108.569 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 107.012 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 109.476 ms
Loss rate: 4.33%
```

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





Run 5: Statistics of LEDBAT

Start at: 2019-10-03 01:58:56  
End at: 2019-10-03 01:59:26  
Local clock offset: -0.194 ms  
Remote clock offset: -0.044 ms

# Below is generated by plot.py at 2019-10-03 04:20:18

# Datalink statistics

-- Total of 3 flows:

Average throughput: 12.22 Mbit/s  
95th percentile per-packet one-way delay: 111.956 ms  
Loss rate: 1.85%

-- Flow 1:

Average throughput: 8.05 Mbit/s  
95th percentile per-packet one-way delay: 107.241 ms  
Loss rate: 1.44%

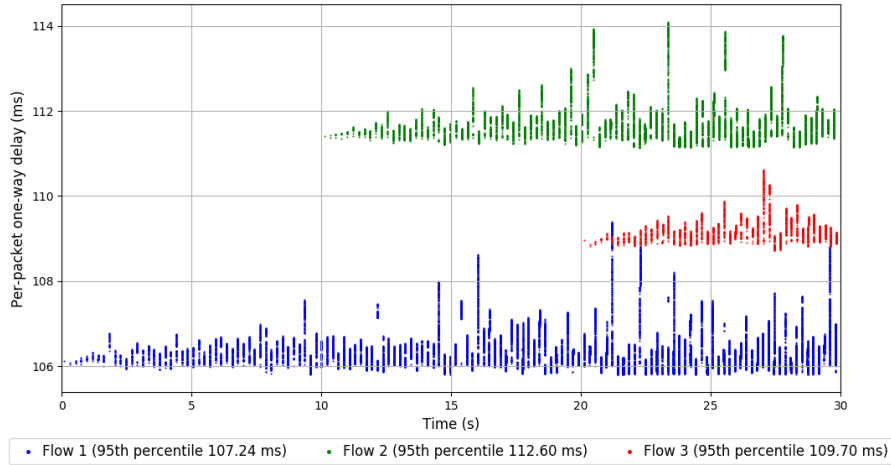
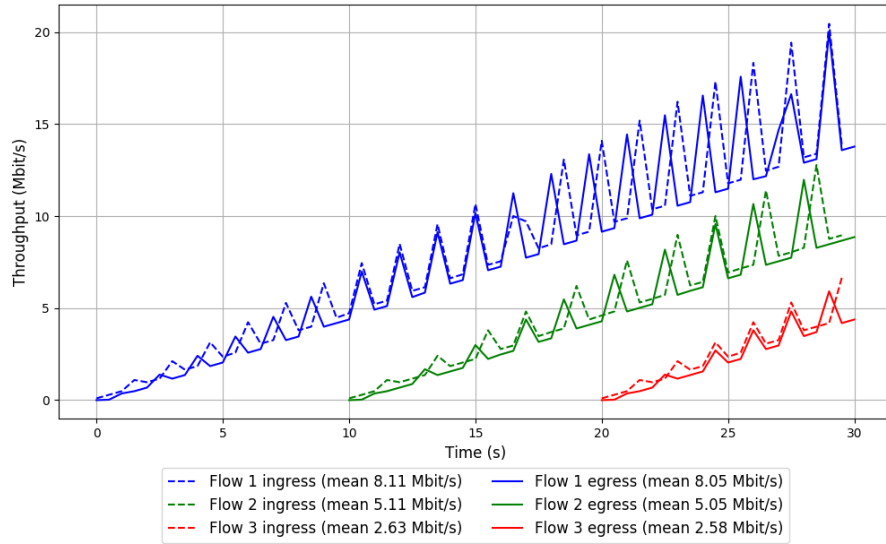
-- Flow 2:

Average throughput: 5.05 Mbit/s  
95th percentile per-packet one-way delay: 112.597 ms  
Loss rate: 2.22%

-- Flow 3:

Average throughput: 2.58 Mbit/s  
95th percentile per-packet one-way delay: 109.701 ms  
Loss rate: 4.33%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:14:53

End at: 2019-10-02 23:15:23

Local clock offset: 0.015 ms

Remote clock offset: 0.01 ms

# Below is generated by plot.py at 2019-10-03 04:22:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 719.43 Mbit/s

95th percentile per-packet one-way delay: 141.664 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 439.89 Mbit/s

95th percentile per-packet one-way delay: 147.992 ms

Loss rate: 0.50%

-- Flow 2:

Average throughput: 324.18 Mbit/s

95th percentile per-packet one-way delay: 117.876 ms

Loss rate: 1.26%

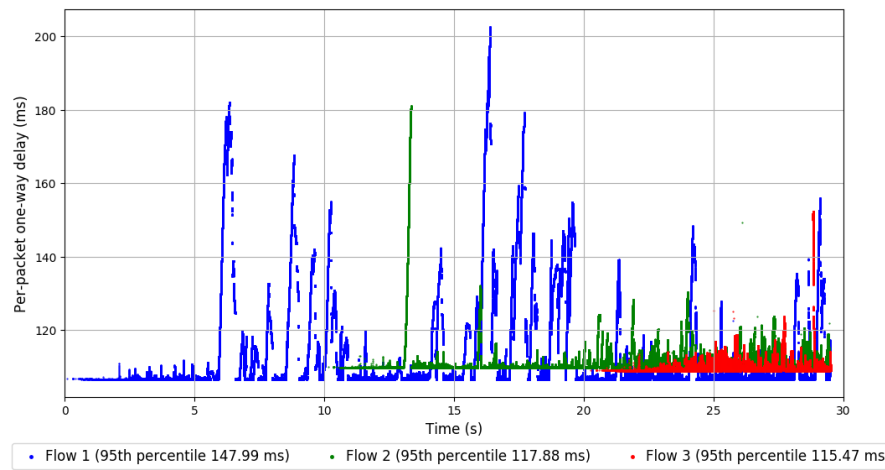
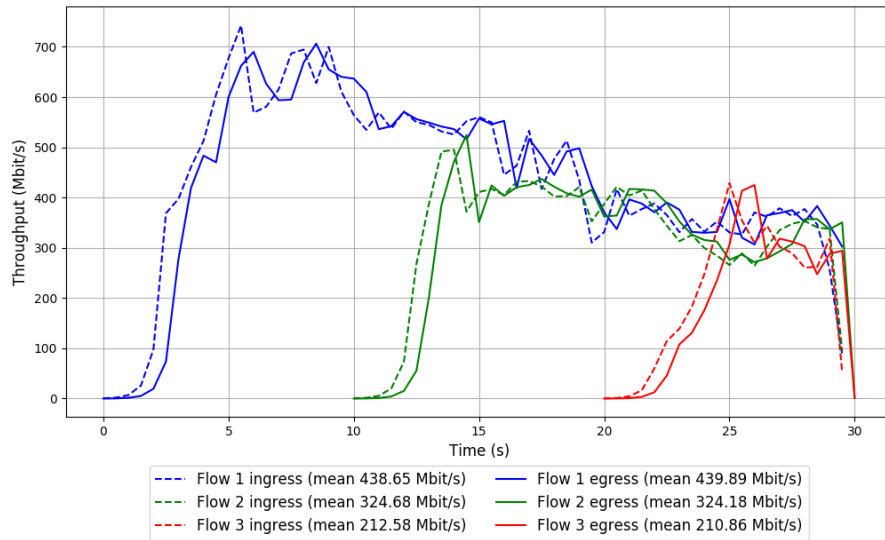
-- Flow 3:

Average throughput: 210.86 Mbit/s

95th percentile per-packet one-way delay: 115.473 ms

Loss rate: 3.08%

Run 1: Report of Muses\_DecisionTree — Data Link



Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-10-02 23:57:22

End at: 2019-10-02 23:57:52

Local clock offset: -0.122 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-10-03 04:22:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 654.19 Mbit/s

95th percentile per-packet one-way delay: 147.049 ms

Loss rate: 1.10%

-- Flow 1:

Average throughput: 396.46 Mbit/s

95th percentile per-packet one-way delay: 143.605 ms

Loss rate: 0.72%

-- Flow 2:

Average throughput: 290.29 Mbit/s

95th percentile per-packet one-way delay: 169.069 ms

Loss rate: 0.97%

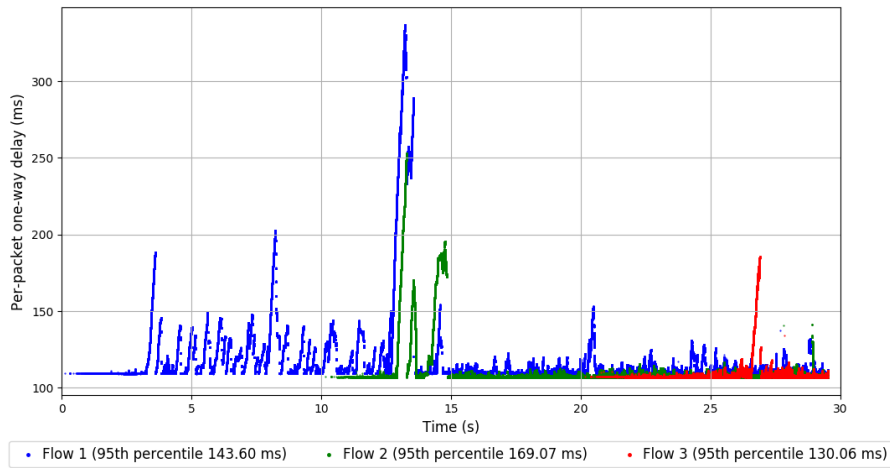
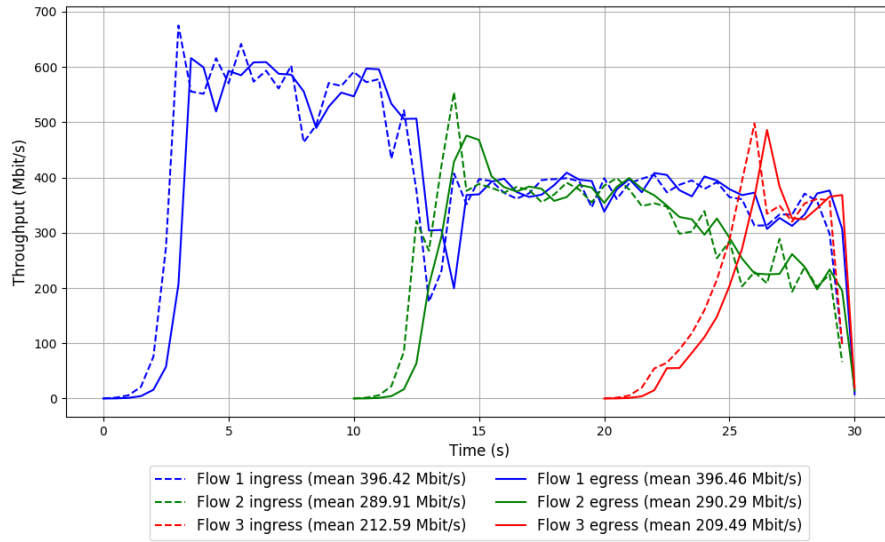
-- Flow 3:

Average throughput: 209.49 Mbit/s

95th percentile per-packet one-way delay: 130.060 ms

Loss rate: 3.66%

Run 2: Report of Muses\_DecisionTree — Data Link



Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 00:40:19  
End at: 2019-10-03 00:40:49  
Local clock offset: -0.484 ms  
Remote clock offset: -0.108 ms

# Below is generated by plot.py at 2019-10-03 04:22:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 670.65 Mbit/s  
95th percentile per-packet one-way delay: 144.998 ms  
Loss rate: 1.18%

-- Flow 1:

Average throughput: 400.22 Mbit/s  
95th percentile per-packet one-way delay: 143.135 ms  
Loss rate: 0.79%

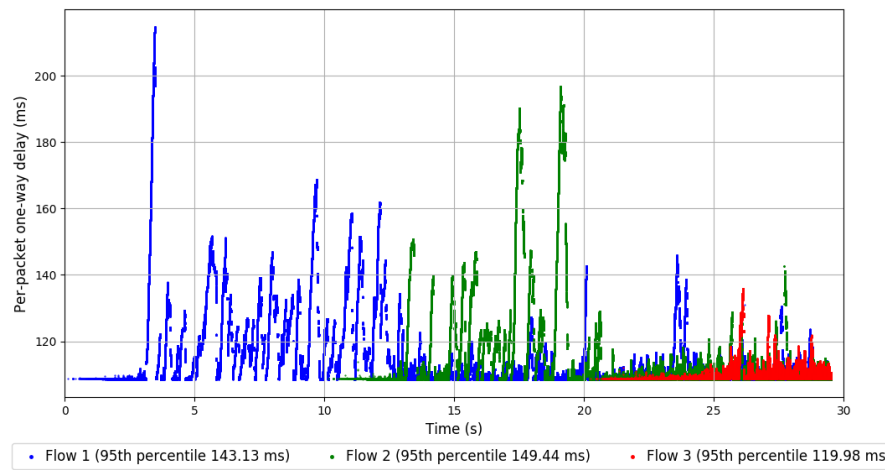
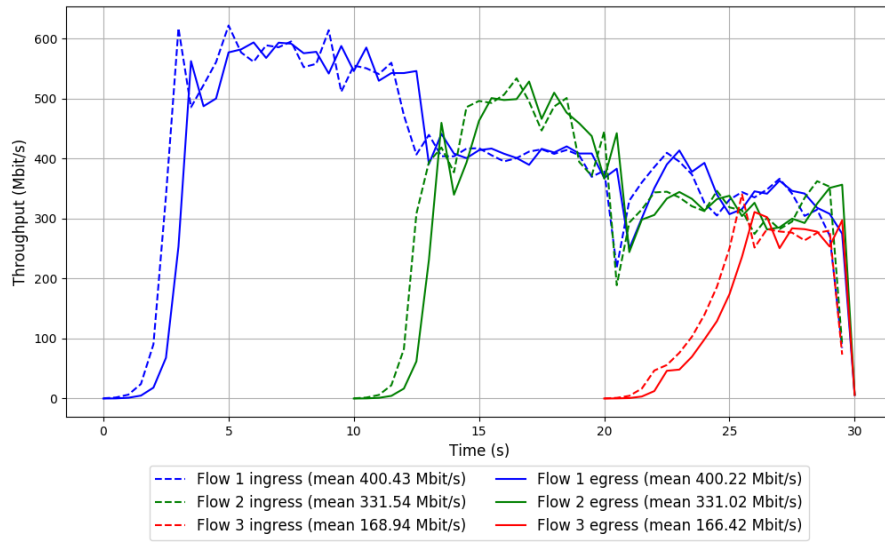
-- Flow 2:

Average throughput: 331.02 Mbit/s  
95th percentile per-packet one-way delay: 149.437 ms  
Loss rate: 1.26%

-- Flow 3:

Average throughput: 166.42 Mbit/s  
95th percentile per-packet one-way delay: 119.980 ms  
Loss rate: 3.73%

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



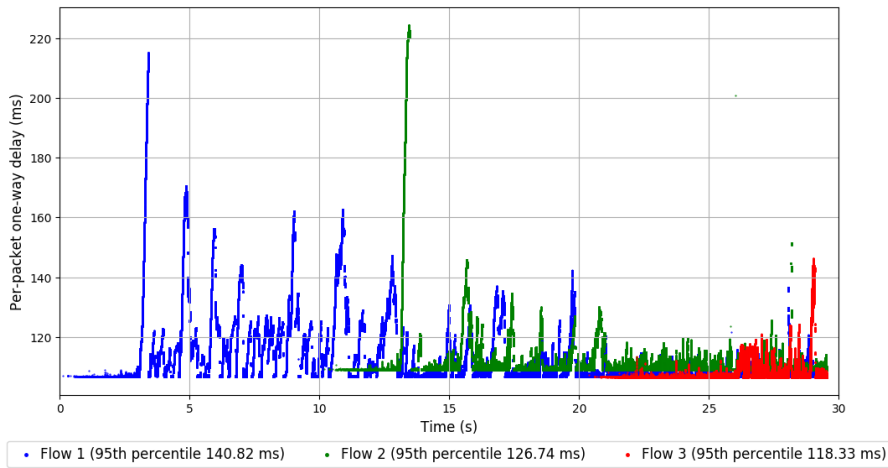
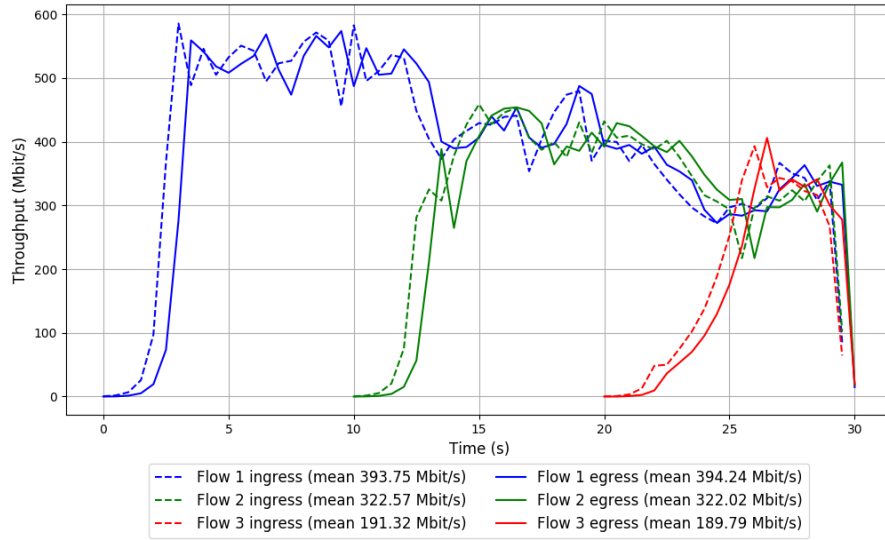


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 01:23:21  
End at: 2019-10-03 01:23:51  
Local clock offset: -0.207 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 04:23:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 665.09 Mbit/s  
95th percentile per-packet one-way delay: 135.431 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 394.24 Mbit/s  
95th percentile per-packet one-way delay: 140.819 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 322.02 Mbit/s  
95th percentile per-packet one-way delay: 126.744 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 189.79 Mbit/s  
95th percentile per-packet one-way delay: 118.334 ms  
Loss rate: 3.09%

Run 4: Report of Muses\_DecisionTree — Data Link



Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-10-03 02:05:58

End at: 2019-10-03 02:06:28

Local clock offset: -0.086 ms

Remote clock offset: 0.329 ms

# Below is generated by plot.py at 2019-10-03 04:26:28

# Datalink statistics

-- Total of 3 flows:

Average throughput: 635.01 Mbit/s

95th percentile per-packet one-way delay: 152.136 ms

Loss rate: 1.31%

-- Flow 1:

Average throughput: 360.07 Mbit/s

95th percentile per-packet one-way delay: 148.341 ms

Loss rate: 0.89%

-- Flow 2:

Average throughput: 333.89 Mbit/s

95th percentile per-packet one-way delay: 137.318 ms

Loss rate: 1.22%

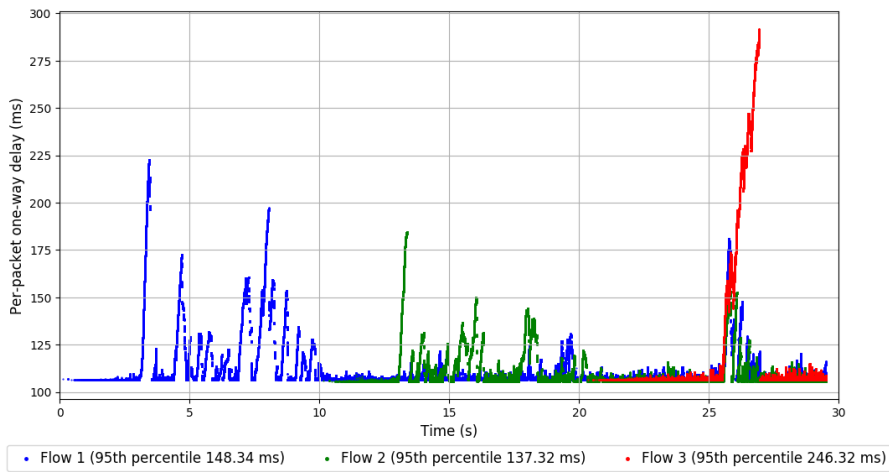
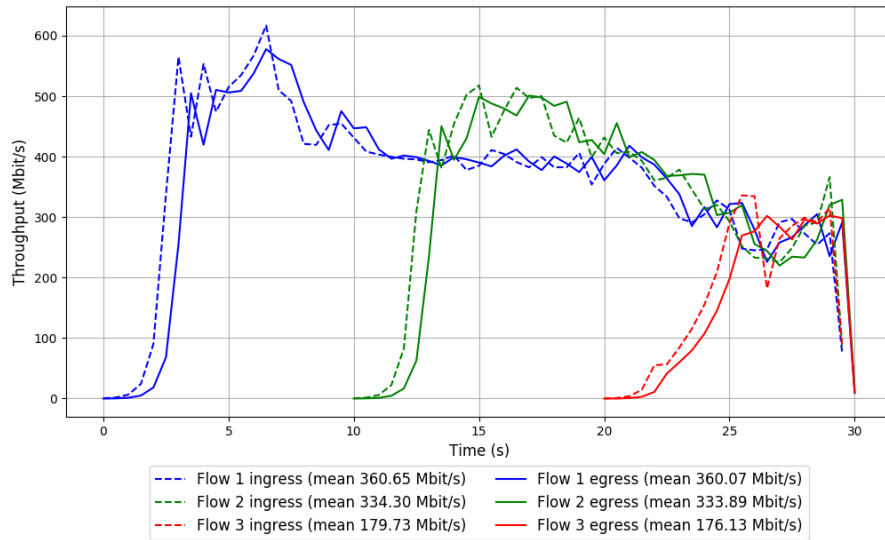
-- Flow 3:

Average throughput: 176.13 Mbit/s

95th percentile per-packet one-way delay: 246.319 ms

Loss rate: 4.27%

Run 5: Report of Muses\_DecisionTree — Data Link



Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 22:46:45  
End at: 2019-10-02 22:47:15  
Local clock offset: 0.368 ms  
Remote clock offset: -0.011 ms

# Below is generated by plot.py at 2019-10-03 04:28:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 628.28 Mbit/s  
95th percentile per-packet one-way delay: 179.457 ms  
Loss rate: 1.79%

-- Flow 1:

Average throughput: 390.22 Mbit/s  
95th percentile per-packet one-way delay: 171.589 ms  
Loss rate: 1.09%

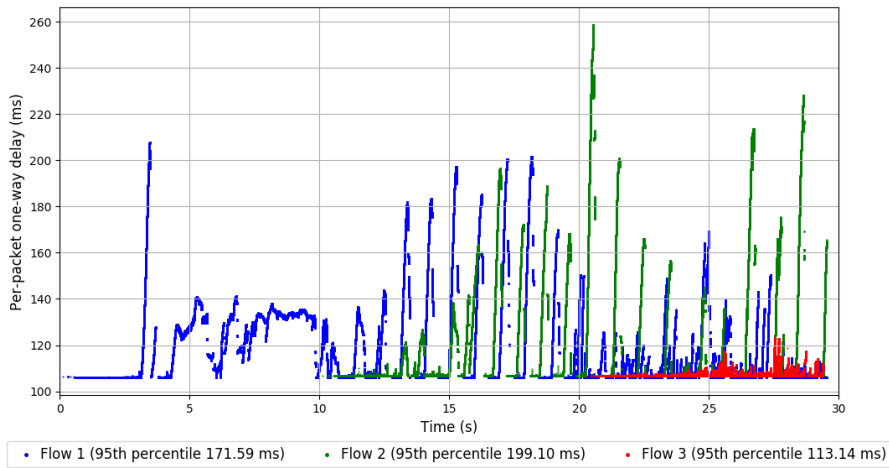
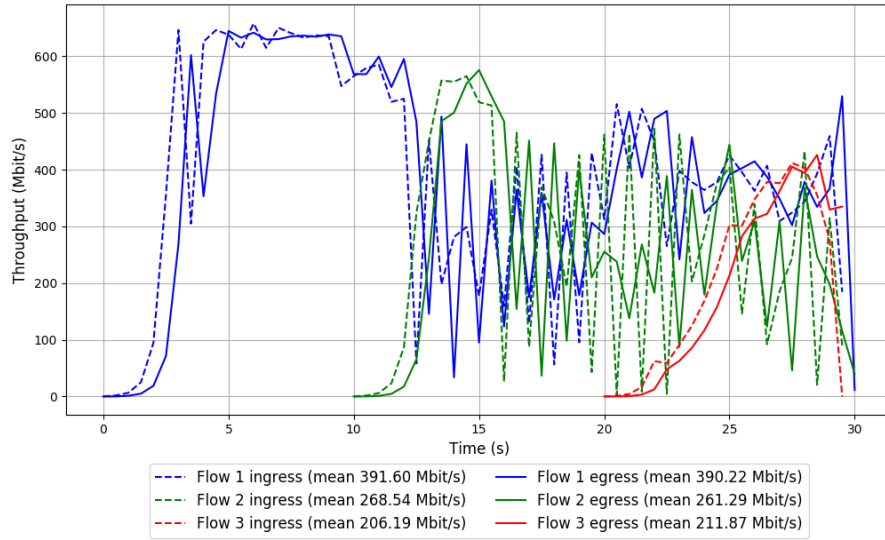
-- Flow 2:

Average throughput: 261.29 Mbit/s  
95th percentile per-packet one-way delay: 199.098 ms  
Loss rate: 3.68%

-- Flow 3:

Average throughput: 211.87 Mbit/s  
95th percentile per-packet one-way delay: 113.135 ms  
Loss rate: 0.85%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link



Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-02 23:29:45  
End at: 2019-10-02 23:30:15  
Local clock offset: -0.019 ms  
Remote clock offset: -0.016 ms

# Below is generated by plot.py at 2019-10-03 04:28:04

# Datalink statistics

-- Total of 3 flows:

Average throughput: 418.92 Mbit/s  
95th percentile per-packet one-way delay: 219.977 ms  
Loss rate: 5.57%

-- Flow 1:

Average throughput: 231.40 Mbit/s  
95th percentile per-packet one-way delay: 222.578 ms  
Loss rate: 6.54%

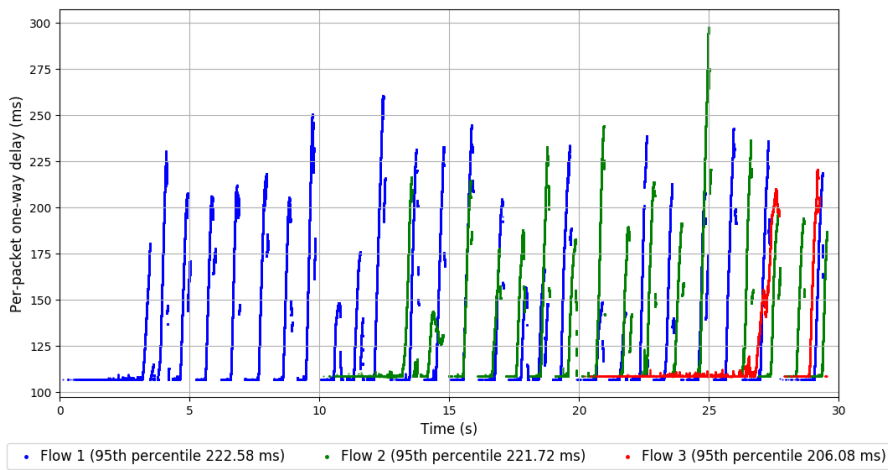
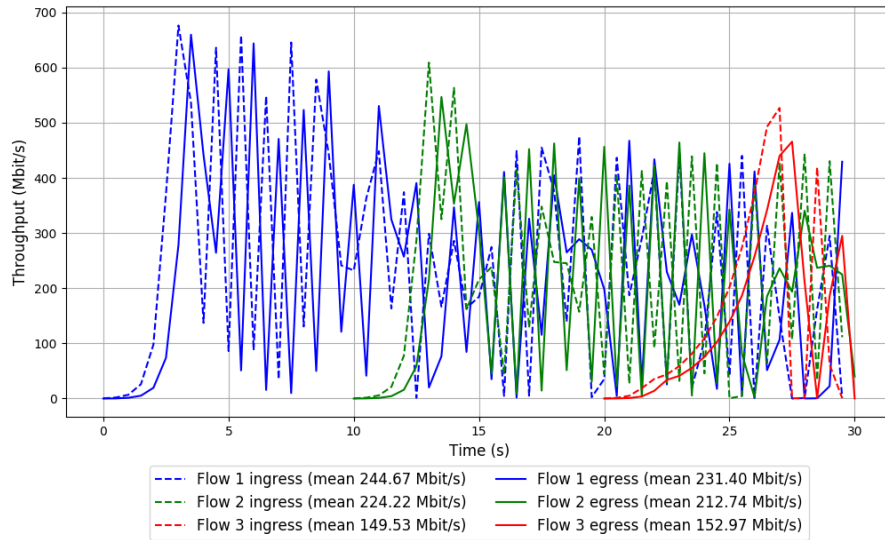
-- Flow 2:

Average throughput: 212.74 Mbit/s  
95th percentile per-packet one-way delay: 221.716 ms  
Loss rate: 5.77%

-- Flow 3:

Average throughput: 152.97 Mbit/s  
95th percentile per-packet one-way delay: 206.076 ms  
Loss rate: 0.05%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link





Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:12:26

End at: 2019-10-03 00:12:56

Local clock offset: -1.386 ms

Remote clock offset: 0.051 ms

# Below is generated by plot.py at 2019-10-03 04:30:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 452.02 Mbit/s

95th percentile per-packet one-way delay: 230.312 ms

Loss rate: 6.67%

-- Flow 1:

Average throughput: 223.46 Mbit/s

95th percentile per-packet one-way delay: 234.794 ms

Loss rate: 9.95%

-- Flow 2:

Average throughput: 223.31 Mbit/s

95th percentile per-packet one-way delay: 223.436 ms

Loss rate: 3.91%

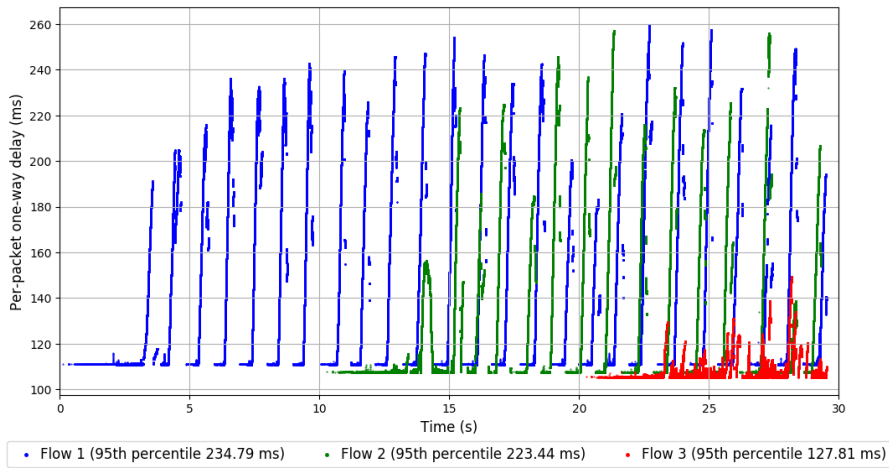
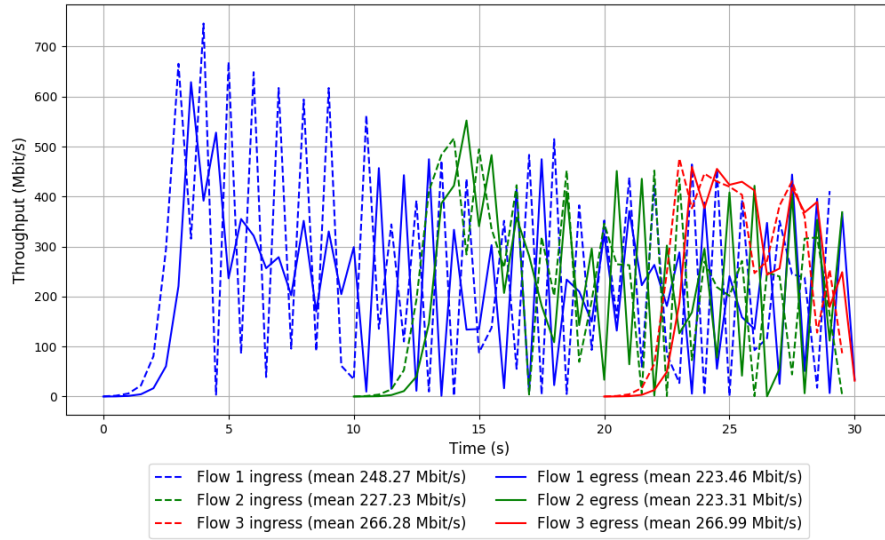
-- Flow 3:

Average throughput: 266.99 Mbit/s

95th percentile per-packet one-way delay: 127.814 ms

Loss rate: 2.01%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

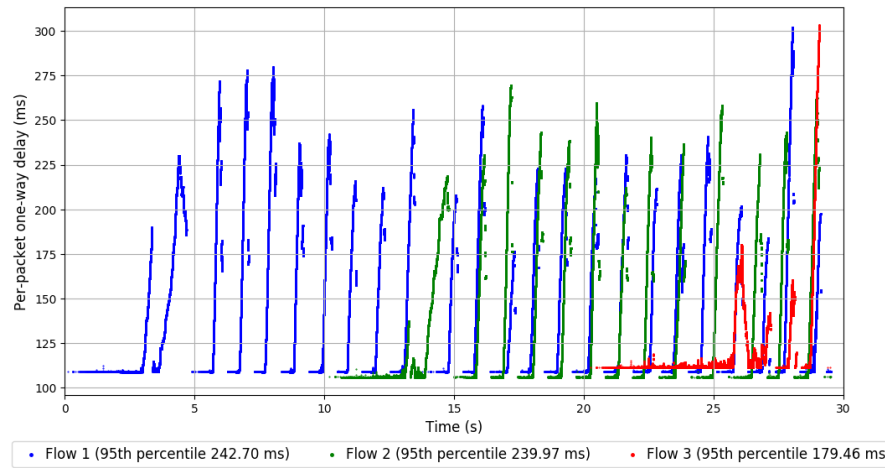
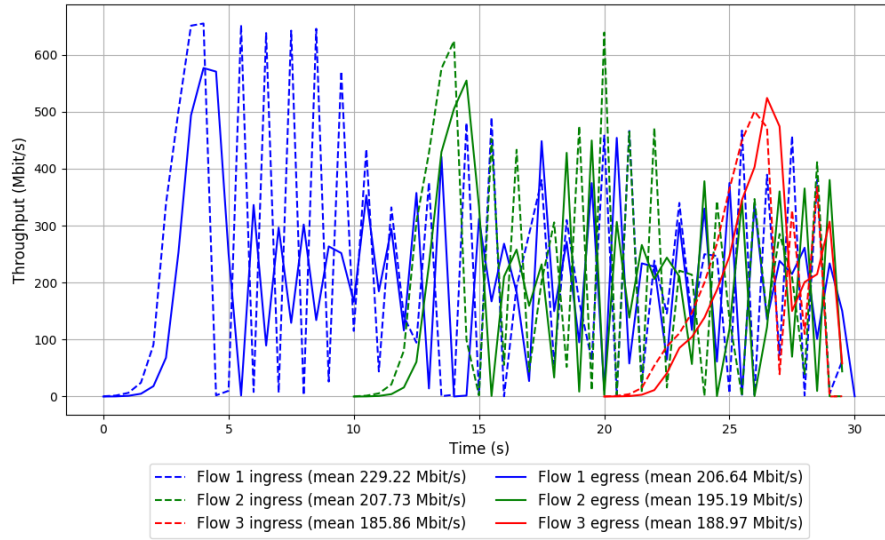


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 00:55:31  
End at: 2019-10-03 00:56:01  
Local clock offset: -0.124 ms  
Remote clock offset: -0.079 ms

# Below is generated by plot.py at 2019-10-03 04:30:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 394.13 Mbit/s  
95th percentile per-packet one-way delay: 239.559 ms  
Loss rate: 8.09%  
-- Flow 1:  
Average throughput: 206.64 Mbit/s  
95th percentile per-packet one-way delay: 242.702 ms  
Loss rate: 10.52%  
-- Flow 2:  
Average throughput: 195.19 Mbit/s  
95th percentile per-packet one-way delay: 239.970 ms  
Loss rate: 7.22%  
-- Flow 3:  
Average throughput: 188.97 Mbit/s  
95th percentile per-packet one-way delay: 179.457 ms  
Loss rate: 0.72%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-10-03 01:38:26  
End at: 2019-10-03 01:38:56  
Local clock offset: -0.032 ms  
Remote clock offset: -0.061 ms

# Below is generated by plot.py at 2019-10-03 04:32:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 520.62 Mbit/s  
95th percentile per-packet one-way delay: 222.058 ms  
Loss rate: 2.84%

-- Flow 1:

Average throughput: 301.14 Mbit/s  
95th percentile per-packet one-way delay: 218.823 ms  
Loss rate: 1.70%

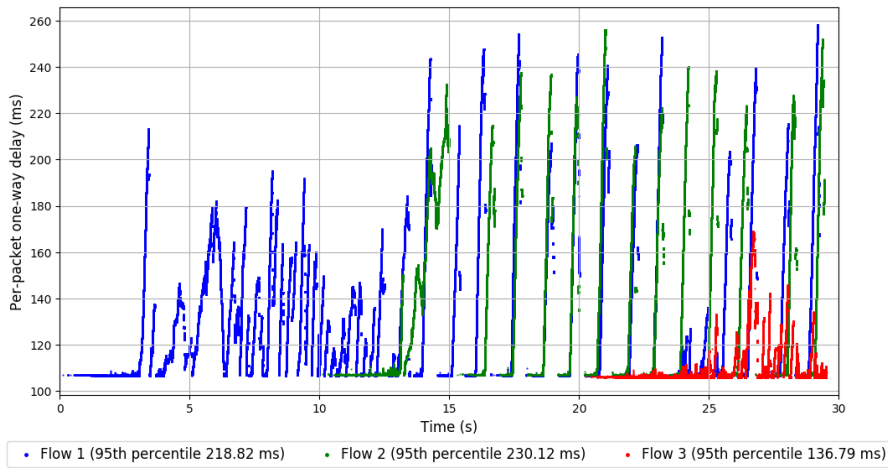
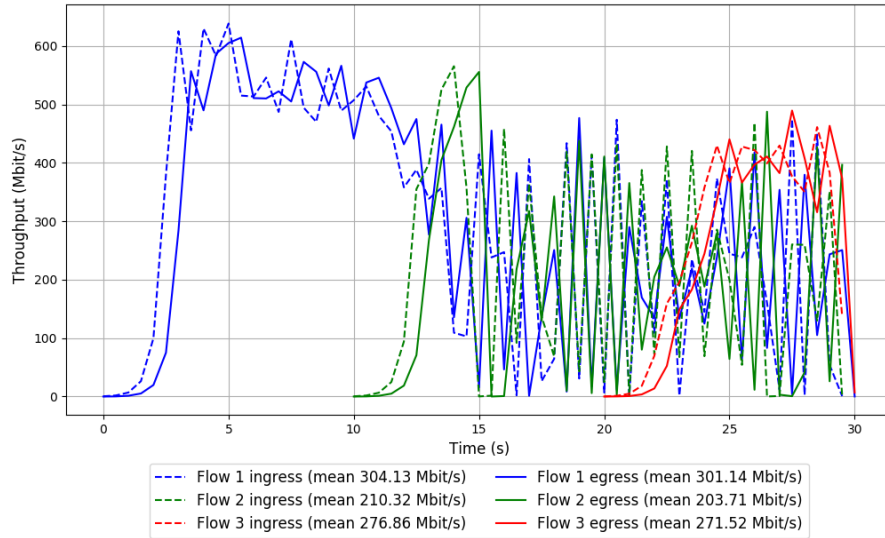
-- Flow 2:

Average throughput: 203.71 Mbit/s  
95th percentile per-packet one-way delay: 230.123 ms  
Loss rate: 4.51%

-- Flow 3:

Average throughput: 271.52 Mbit/s  
95th percentile per-packet one-way delay: 136.790 ms  
Loss rate: 4.11%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link



Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:05:47

End at: 2019-10-02 23:06:17

Local clock offset: 0.546 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-10-03 04:36:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 695.50 Mbit/s

95th percentile per-packet one-way delay: 146.768 ms

Loss rate: 1.09%

-- Flow 1:

Average throughput: 412.06 Mbit/s

95th percentile per-packet one-way delay: 154.251 ms

Loss rate: 0.81%

-- Flow 2:

Average throughput: 315.17 Mbit/s

95th percentile per-packet one-way delay: 141.834 ms

Loss rate: 0.82%

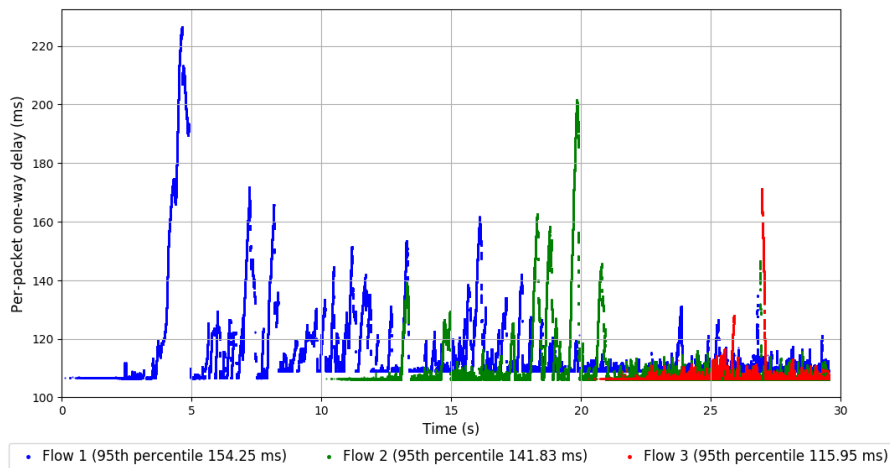
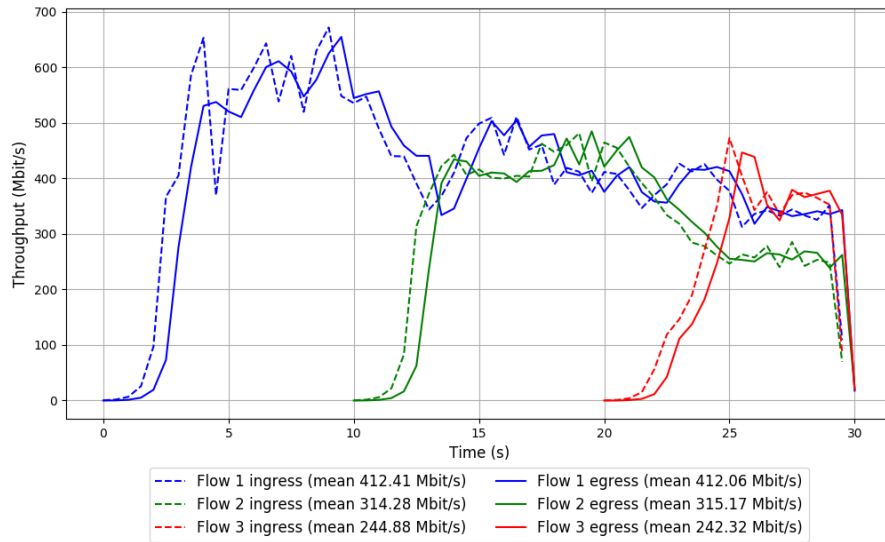
-- Flow 3:

Average throughput: 242.32 Mbit/s

95th percentile per-packet one-way delay: 115.955 ms

Loss rate: 3.29%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link





Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-02 23:48:28

End at: 2019-10-02 23:48:58

Local clock offset: -0.808 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-10-03 04:37:42

# Datalink statistics

-- Total of 3 flows:

Average throughput: 660.54 Mbit/s

95th percentile per-packet one-way delay: 137.013 ms

Loss rate: 1.02%

-- Flow 1:

Average throughput: 397.87 Mbit/s

95th percentile per-packet one-way delay: 140.659 ms

Loss rate: 0.69%

-- Flow 2:

Average throughput: 323.07 Mbit/s

95th percentile per-packet one-way delay: 128.126 ms

Loss rate: 0.92%

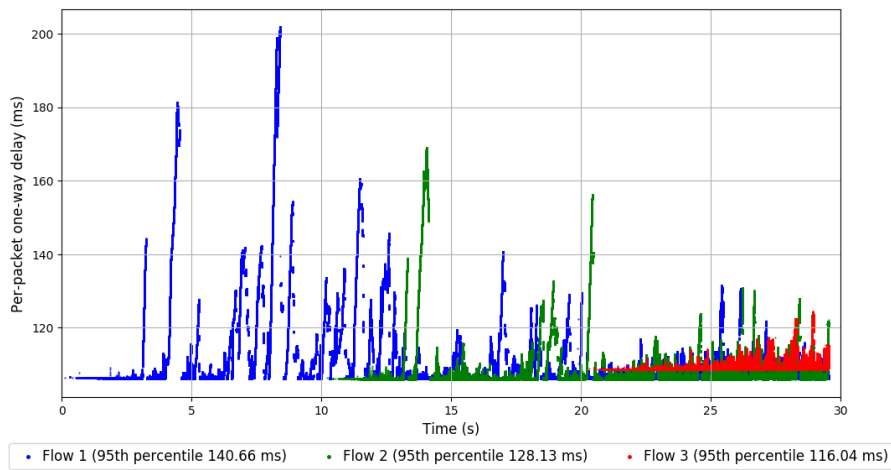
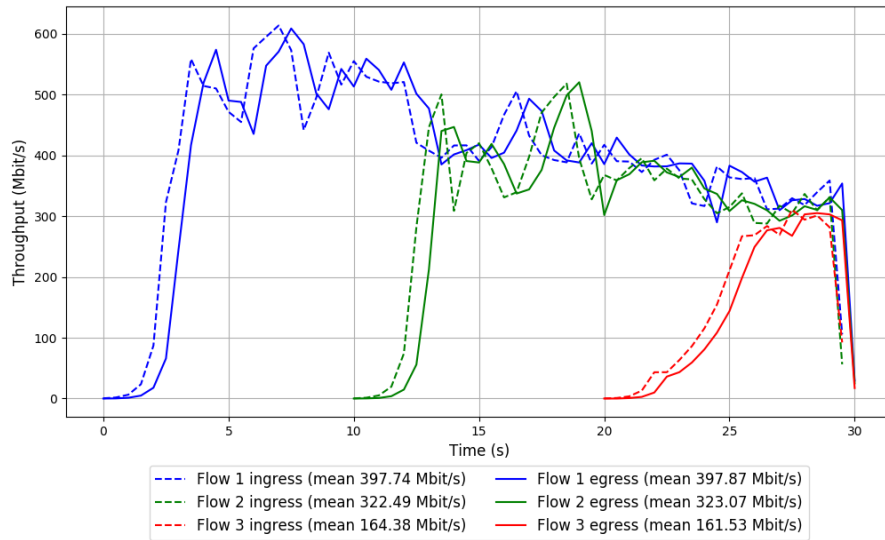
-- Flow 3:

Average throughput: 161.53 Mbit/s

95th percentile per-packet one-way delay: 116.036 ms

Loss rate: 4.00%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

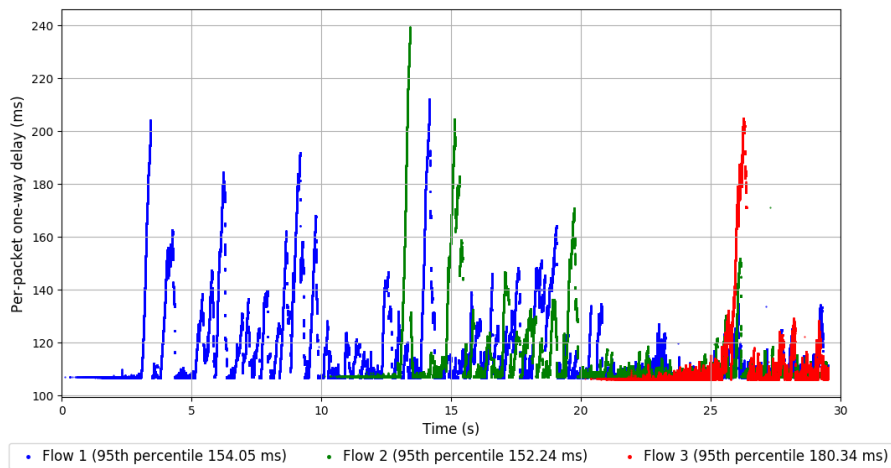
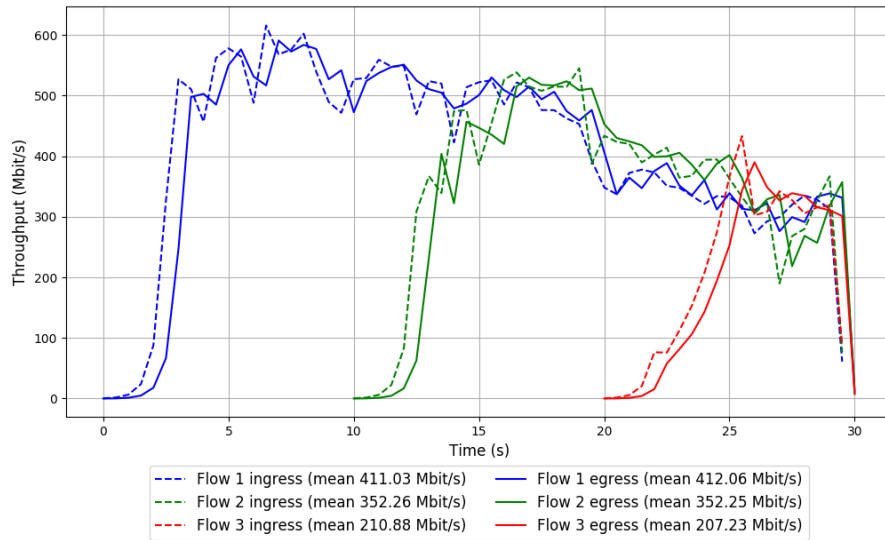


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 00:31:19  
End at: 2019-10-03 00:31:49  
Local clock offset: 0.026 ms  
Remote clock offset: -0.054 ms

# Below is generated by plot.py at 2019-10-03 04:39:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 710.06 Mbit/s  
95th percentile per-packet one-way delay: 155.475 ms  
Loss rate: 1.01%  
-- Flow 1:  
Average throughput: 412.06 Mbit/s  
95th percentile per-packet one-way delay: 154.053 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 352.25 Mbit/s  
95th percentile per-packet one-way delay: 152.239 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 207.23 Mbit/s  
95th percentile per-packet one-way delay: 180.342 ms  
Loss rate: 3.93%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link

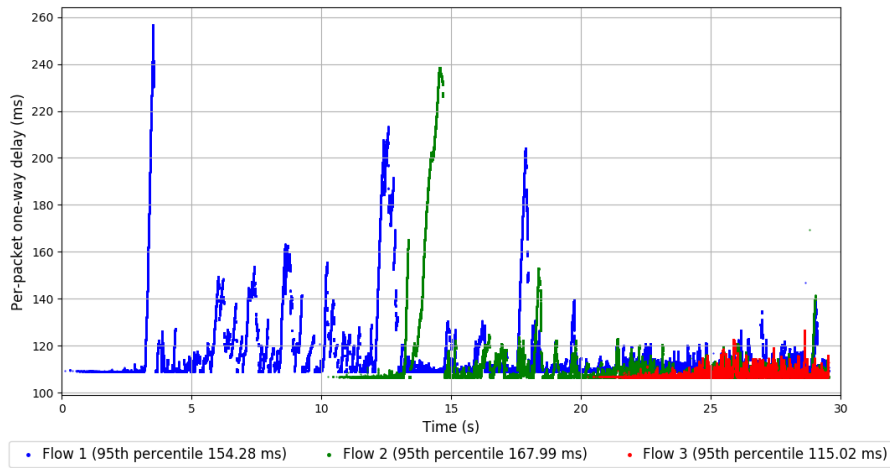
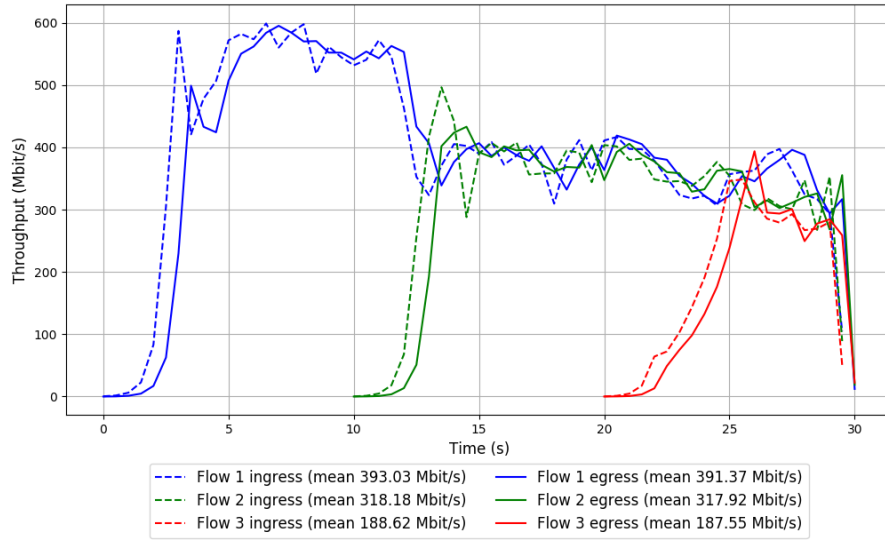


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 01:14:25  
End at: 2019-10-03 01:14:55  
Local clock offset: -0.211 ms  
Remote clock offset: -0.084 ms

# Below is generated by plot.py at 2019-10-03 04:40:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 658.86 Mbit/s  
95th percentile per-packet one-way delay: 153.263 ms  
Loss rate: 1.32%  
-- Flow 1:  
Average throughput: 391.37 Mbit/s  
95th percentile per-packet one-way delay: 154.275 ms  
Loss rate: 1.15%  
-- Flow 2:  
Average throughput: 317.92 Mbit/s  
95th percentile per-packet one-way delay: 167.987 ms  
Loss rate: 1.19%  
-- Flow 3:  
Average throughput: 187.55 Mbit/s  
95th percentile per-packet one-way delay: 115.023 ms  
Loss rate: 2.83%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

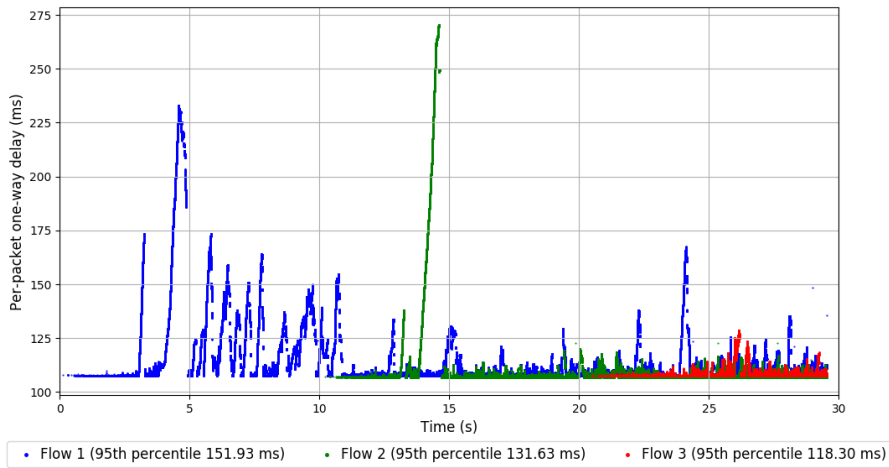
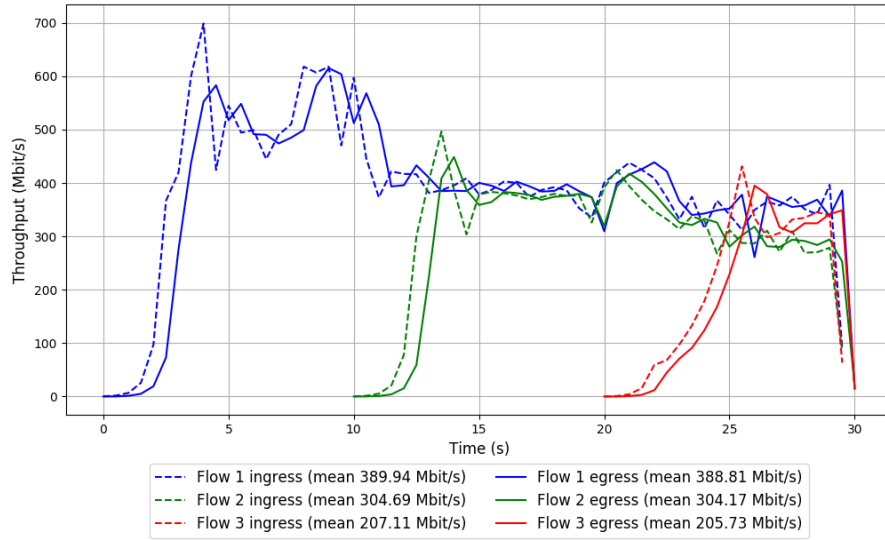


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-10-03 01:57:02  
End at: 2019-10-03 01:57:32  
Local clock offset: 0.664 ms  
Remote clock offset: -0.046 ms

# Below is generated by plot.py at 2019-10-03 04:41:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 652.99 Mbit/s  
95th percentile per-packet one-way delay: 146.662 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 388.81 Mbit/s  
95th percentile per-packet one-way delay: 151.933 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 304.17 Mbit/s  
95th percentile per-packet one-way delay: 131.627 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 205.73 Mbit/s  
95th percentile per-packet one-way delay: 118.298 ms  
Loss rate: 2.94%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link





Run 1: Statistics of PCC-Allegro

Start at: 2019-10-02 23:02:35

End at: 2019-10-02 23:03:05

Local clock offset: 0.689 ms

Remote clock offset: 0.076 ms

# Below is generated by plot.py at 2019-10-03 04:50:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 530.44 Mbit/s

95th percentile per-packet one-way delay: 148.414 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 288.34 Mbit/s

95th percentile per-packet one-way delay: 126.212 ms

Loss rate: 1.58%

-- Flow 2:

Average throughput: 250.99 Mbit/s

95th percentile per-packet one-way delay: 151.974 ms

Loss rate: 1.83%

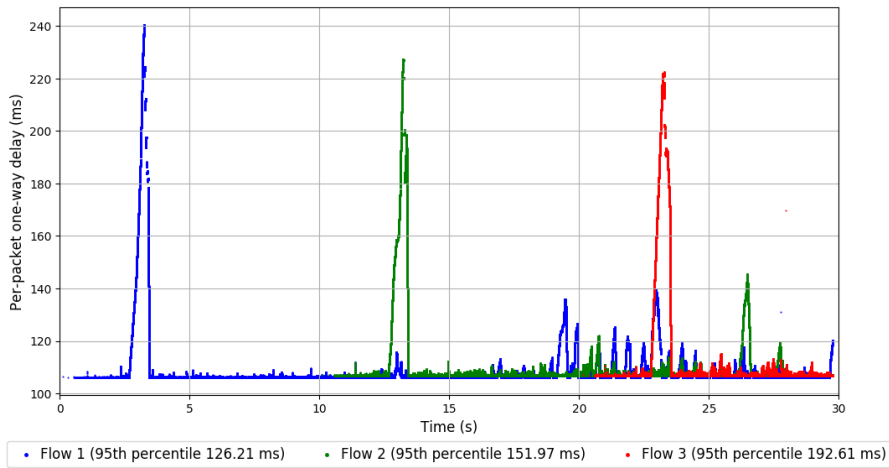
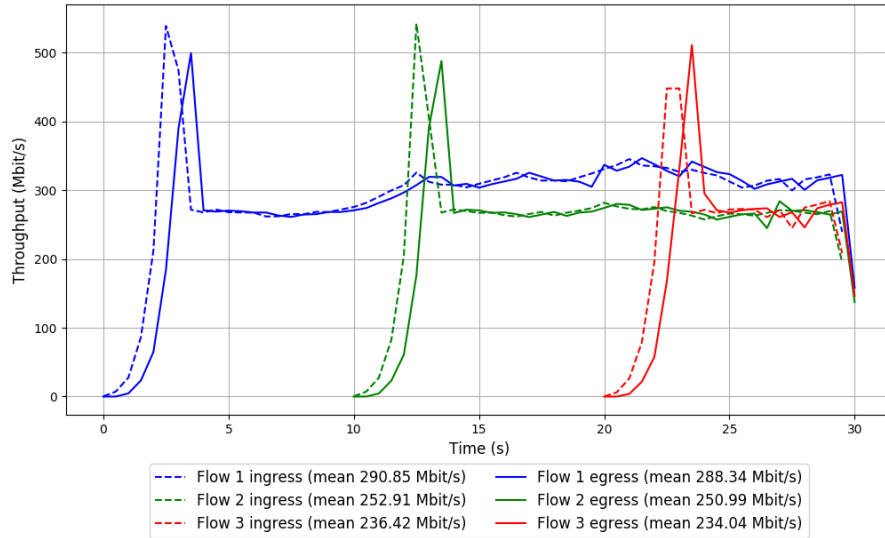
-- Flow 3:

Average throughput: 234.04 Mbit/s

95th percentile per-packet one-way delay: 192.606 ms

Loss rate: 3.18%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-10-02 23:45:17  
End at: 2019-10-02 23:45:47  
Local clock offset: -0.155 ms  
Remote clock offset: -0.005 ms

# Below is generated by plot.py at 2019-10-03 04:50:40

# Datalink statistics

-- Total of 3 flows:

Average throughput: 497.02 Mbit/s  
95th percentile per-packet one-way delay: 211.754 ms  
Loss rate: 3.30%

-- Flow 1:

Average throughput: 282.78 Mbit/s  
95th percentile per-packet one-way delay: 224.103 ms  
Loss rate: 3.28%

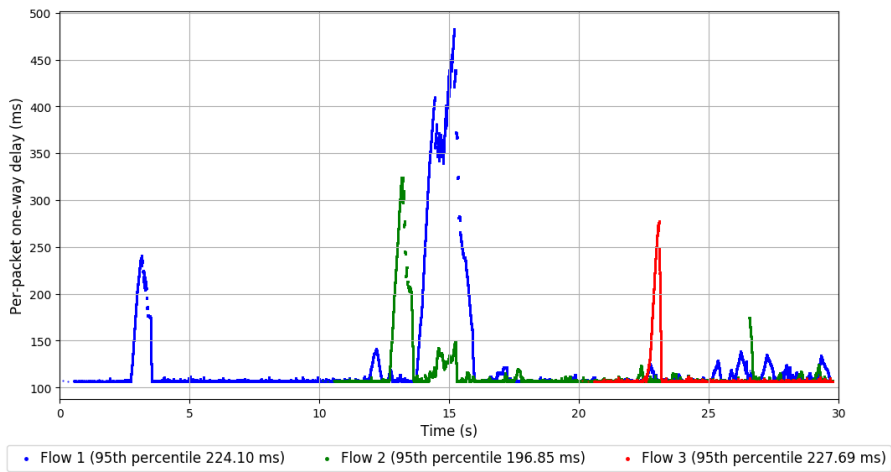
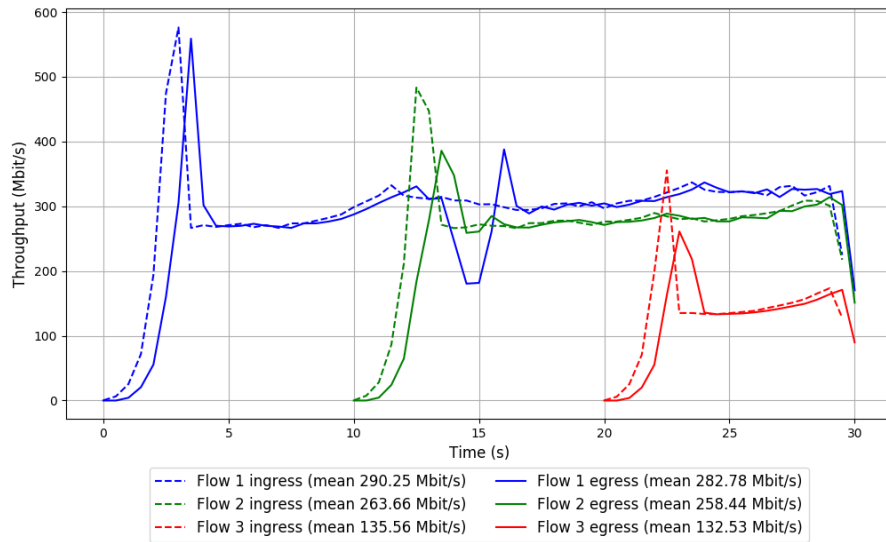
-- Flow 2:

Average throughput: 258.44 Mbit/s  
95th percentile per-packet one-way delay: 196.849 ms  
Loss rate: 3.05%

-- Flow 3:

Average throughput: 132.53 Mbit/s  
95th percentile per-packet one-way delay: 227.690 ms  
Loss rate: 4.37%

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



Run 3: Statistics of PCC-Allegro

Start at: 2019-10-03 00:28:06

End at: 2019-10-03 00:28:36

Local clock offset: -0.386 ms

Remote clock offset: 0.311 ms

# Below is generated by plot.py at 2019-10-03 04:54:24

# Datalink statistics

-- Total of 3 flows:

Average throughput: 515.75 Mbit/s

95th percentile per-packet one-way delay: 174.174 ms

Loss rate: 2.76%

-- Flow 1:

Average throughput: 271.07 Mbit/s

95th percentile per-packet one-way delay: 123.597 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 255.52 Mbit/s

95th percentile per-packet one-way delay: 197.322 ms

Loss rate: 3.67%

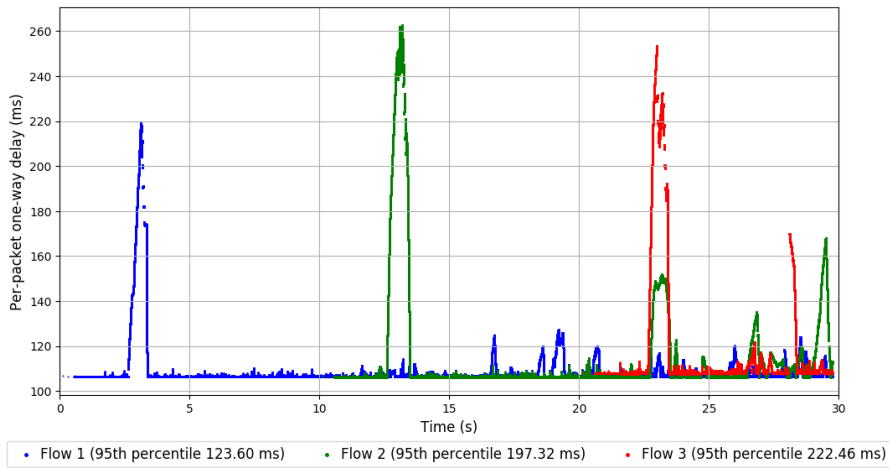
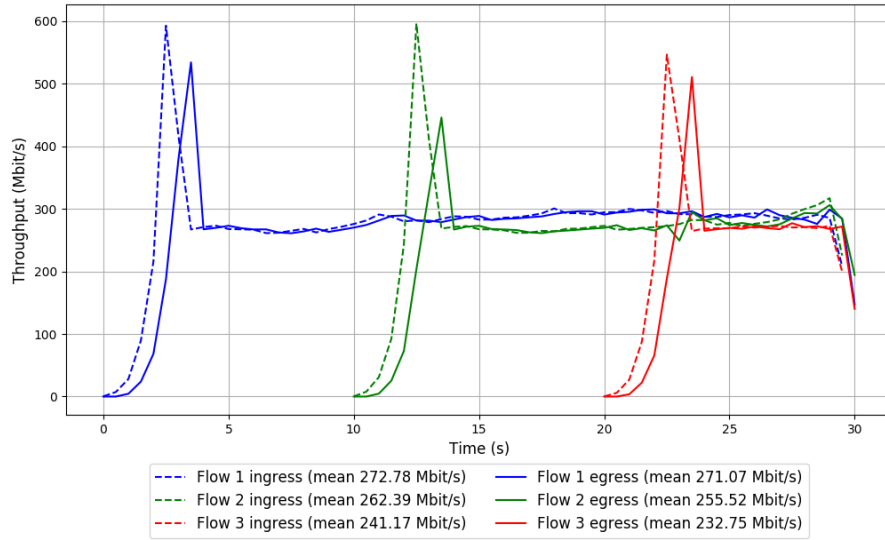
-- Flow 3:

Average throughput: 232.75 Mbit/s

95th percentile per-packet one-way delay: 222.455 ms

Loss rate: 5.61%

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

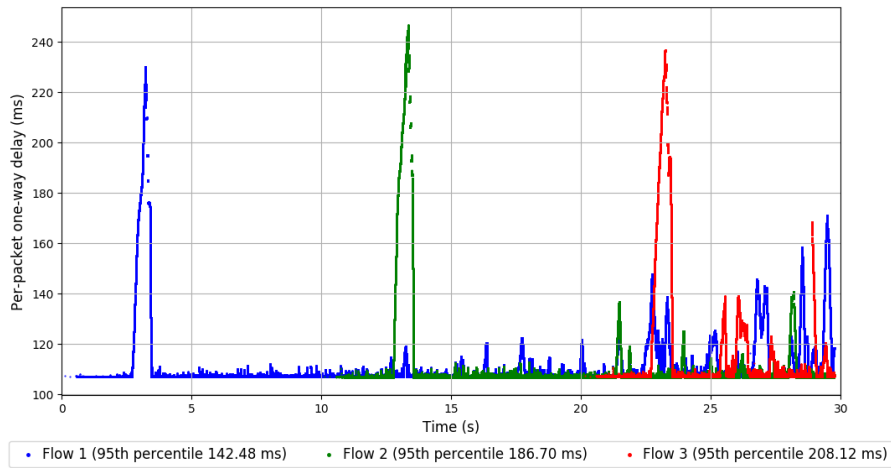
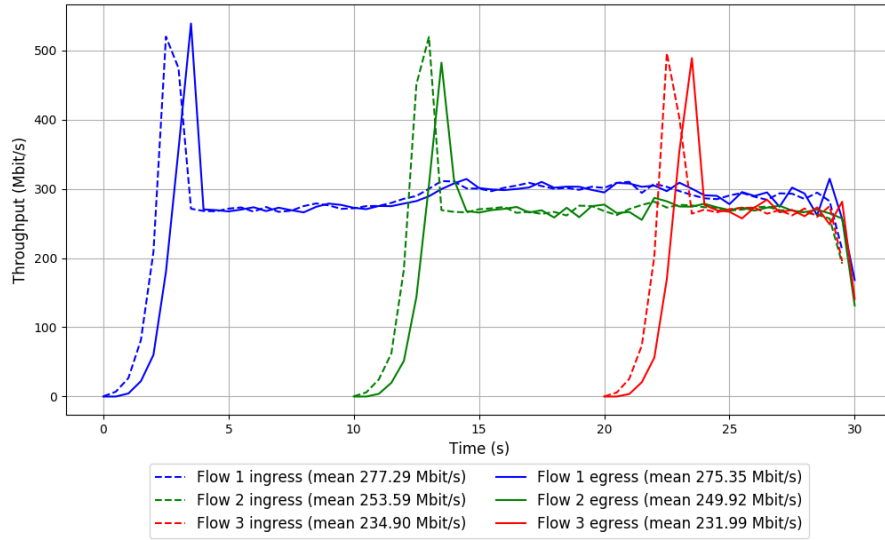


Run 4: Statistics of PCC-Allegro

Start at: 2019-10-03 01:11:13  
End at: 2019-10-03 01:11:43  
Local clock offset: 0.012 ms  
Remote clock offset: -0.072 ms

```
# Below is generated by plot.py at 2019-10-03 04:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 516.08 Mbit/s
95th percentile per-packet one-way delay: 172.961 ms
Loss rate: 2.07%
-- Flow 1:
Average throughput: 275.35 Mbit/s
95th percentile per-packet one-way delay: 142.484 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 249.92 Mbit/s
95th percentile per-packet one-way delay: 186.703 ms
Loss rate: 2.52%
-- Flow 3:
Average throughput: 231.99 Mbit/s
95th percentile per-packet one-way delay: 208.119 ms
Loss rate: 3.42%
```

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



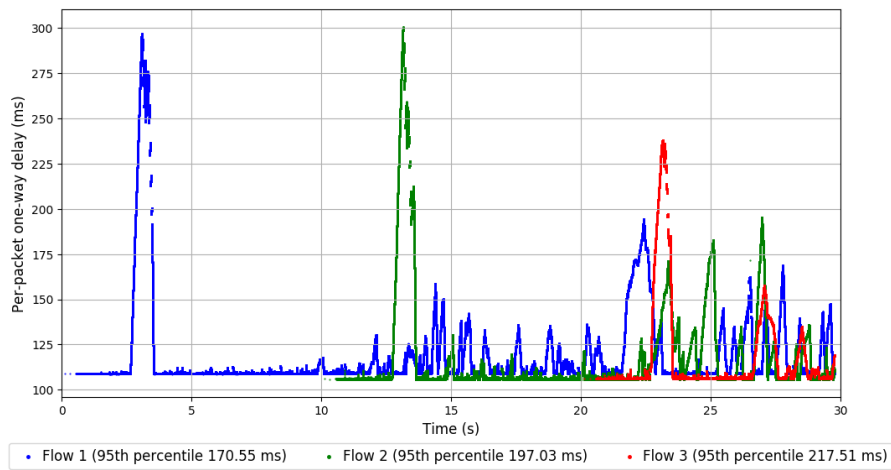
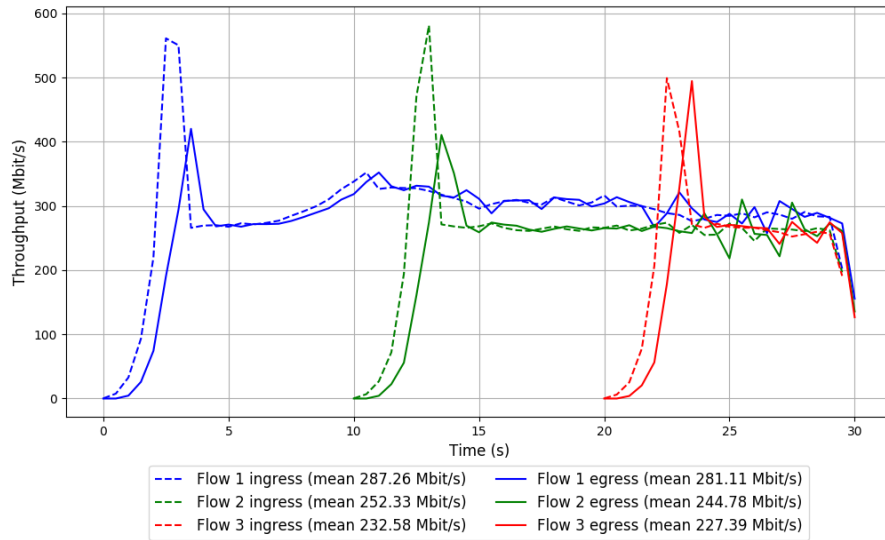


Run 5: Statistics of PCC-Allegro

Start at: 2019-10-03 01:53:49  
End at: 2019-10-03 01:54:19  
Local clock offset: -0.202 ms  
Remote clock offset: -0.059 ms

```
# Below is generated by plot.py at 2019-10-03 04:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 517.09 Mbit/s
95th percentile per-packet one-way delay: 186.501 ms
Loss rate: 3.45%
-- Flow 1:
Average throughput: 281.11 Mbit/s
95th percentile per-packet one-way delay: 170.547 ms
Loss rate: 2.85%
-- Flow 2:
Average throughput: 244.78 Mbit/s
95th percentile per-packet one-way delay: 197.031 ms
Loss rate: 4.04%
-- Flow 3:
Average throughput: 227.39 Mbit/s
95th percentile per-packet one-way delay: 217.512 ms
Loss rate: 4.37%
```

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



Run 1: Statistics of PCC-Expr

Start at: 2019-10-02 22:56:22

End at: 2019-10-02 22:56:52

Local clock offset: 0.476 ms

Remote clock offset: 0.034 ms

# Below is generated by plot.py at 2019-10-03 04:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 477.38 Mbit/s

95th percentile per-packet one-way delay: 217.628 ms

Loss rate: 2.89%

-- Flow 1:

Average throughput: 304.48 Mbit/s

95th percentile per-packet one-way delay: 219.930 ms

Loss rate: 3.31%

-- Flow 2:

Average throughput: 182.36 Mbit/s

95th percentile per-packet one-way delay: 112.645 ms

Loss rate: 1.35%

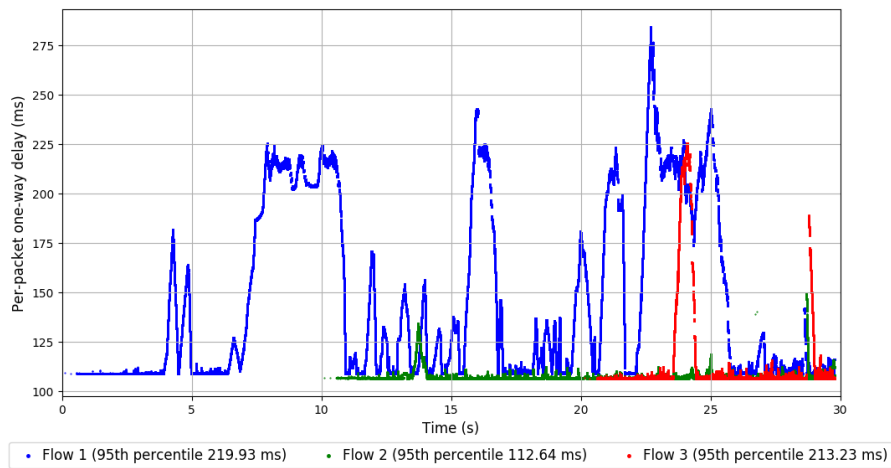
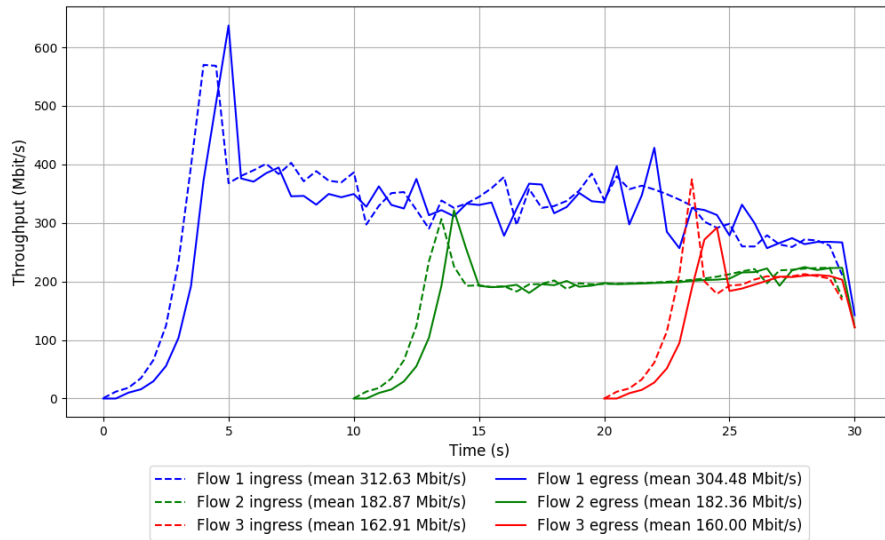
-- Flow 3:

Average throughput: 160.00 Mbit/s

95th percentile per-packet one-way delay: 213.228 ms

Loss rate: 3.92%

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



Run 2: Statistics of PCC-Expr

Start at: 2019-10-02 23:39:16

End at: 2019-10-02 23:39:46

Local clock offset: -0.32 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-10-03 04:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 403.37 Mbit/s

95th percentile per-packet one-way delay: 202.919 ms

Loss rate: 1.89%

-- Flow 1:

Average throughput: 222.43 Mbit/s

95th percentile per-packet one-way delay: 177.990 ms

Loss rate: 0.90%

-- Flow 2:

Average throughput: 200.12 Mbit/s

95th percentile per-packet one-way delay: 205.352 ms

Loss rate: 2.33%

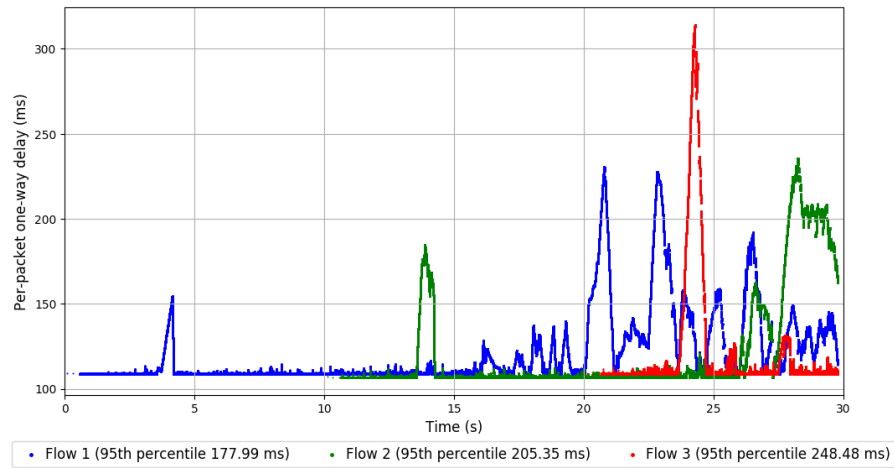
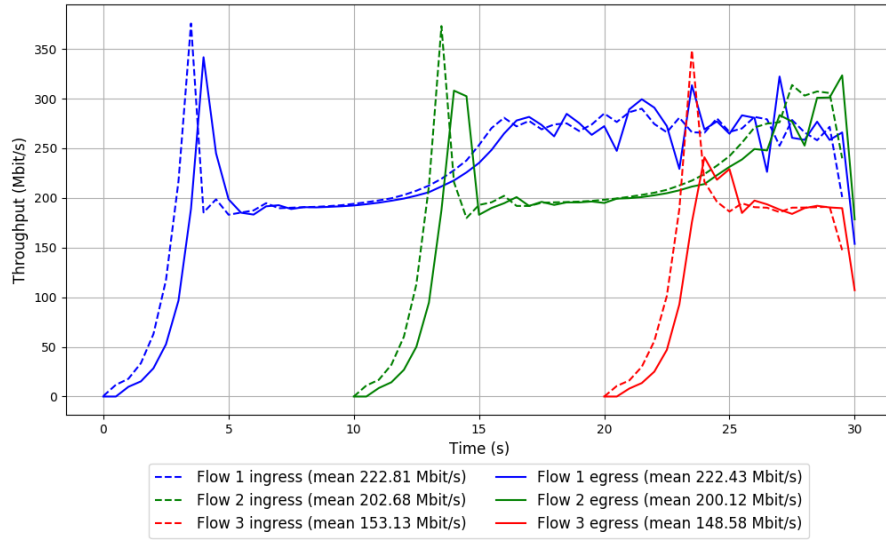
-- Flow 3:

Average throughput: 148.58 Mbit/s

95th percentile per-packet one-way delay: 248.480 ms

Loss rate: 5.10%

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



Run 3: Statistics of PCC-Expr

Start at: 2019-10-03 00:22:02  
End at: 2019-10-03 00:22:32  
Local clock offset: -0.114 ms  
Remote clock offset: -0.039 ms

# Below is generated by plot.py at 2019-10-03 04:59:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 404.52 Mbit/s  
95th percentile per-packet one-way delay: 231.465 ms  
Loss rate: 2.49%

-- Flow 1:

Average throughput: 235.91 Mbit/s  
95th percentile per-packet one-way delay: 239.467 ms  
Loss rate: 3.01%

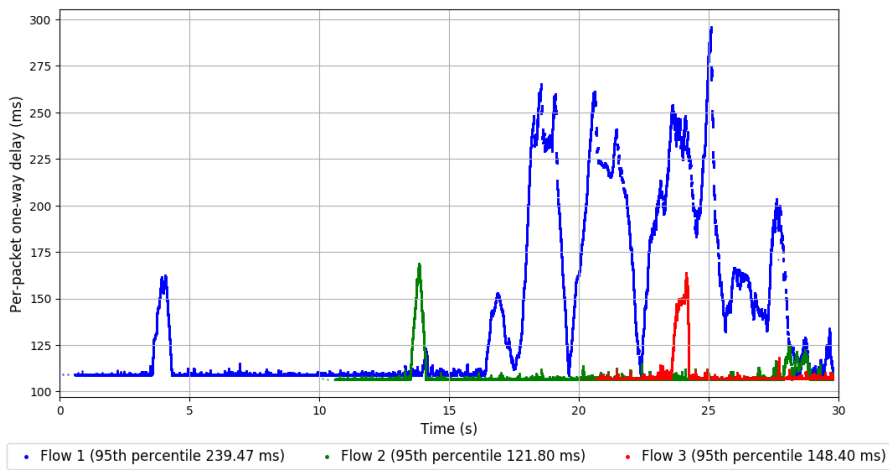
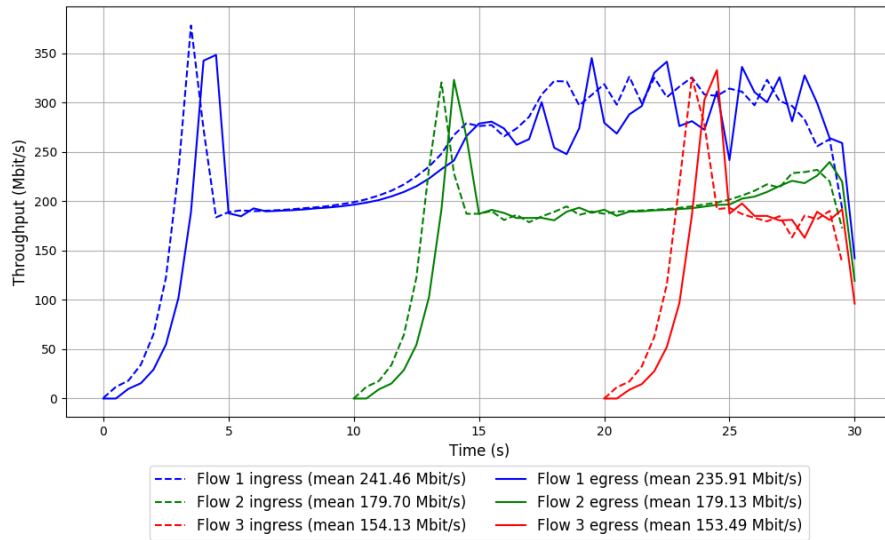
-- Flow 2:

Average throughput: 179.13 Mbit/s  
95th percentile per-packet one-way delay: 121.801 ms  
Loss rate: 1.39%

-- Flow 3:

Average throughput: 153.49 Mbit/s  
95th percentile per-packet one-way delay: 148.402 ms  
Loss rate: 2.59%

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



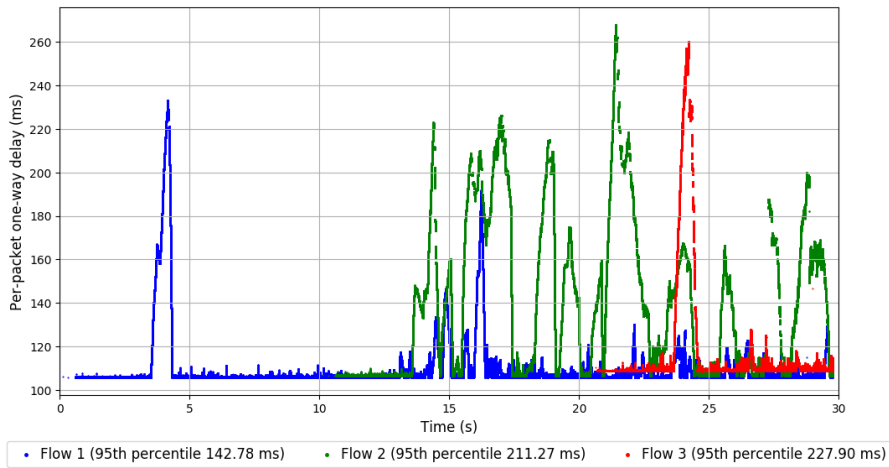
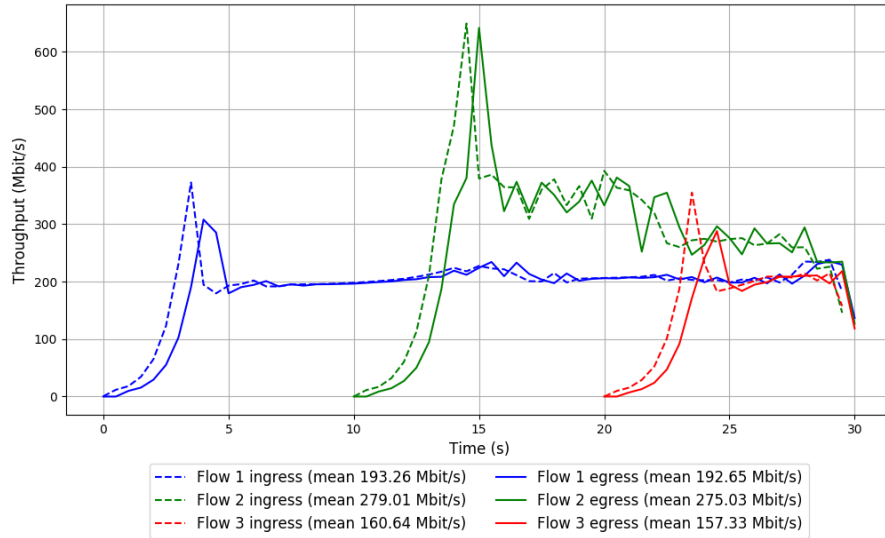


Run 4: Statistics of PCC-Expr

Start at: 2019-10-03 01:05:02  
End at: 2019-10-03 01:05:32  
Local clock offset: -0.189 ms  
Remote clock offset: -0.021 ms

```
# Below is generated by plot.py at 2019-10-03 05:07:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 425.95 Mbit/s
95th percentile per-packet one-way delay: 206.060 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 192.65 Mbit/s
95th percentile per-packet one-way delay: 142.781 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 275.03 Mbit/s
95th percentile per-packet one-way delay: 211.273 ms
Loss rate: 2.50%
-- Flow 3:
Average throughput: 157.33 Mbit/s
95th percentile per-packet one-way delay: 227.899 ms
Loss rate: 4.24%
```

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



Run 5: Statistics of PCC-Expr

Start at: 2019-10-03 01:47:43  
End at: 2019-10-03 01:48:13  
Local clock offset: 0.073 ms  
Remote clock offset: -0.056 ms

# Below is generated by plot.py at 2019-10-03 05:08:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 424.45 Mbit/s  
95th percentile per-packet one-way delay: 230.602 ms  
Loss rate: 4.12%

-- Flow 1:

Average throughput: 243.09 Mbit/s  
95th percentile per-packet one-way delay: 237.008 ms  
Loss rate: 5.30%

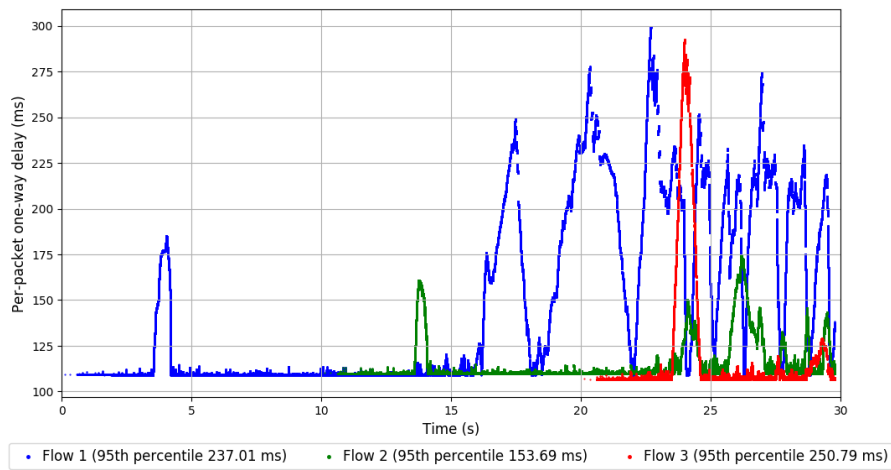
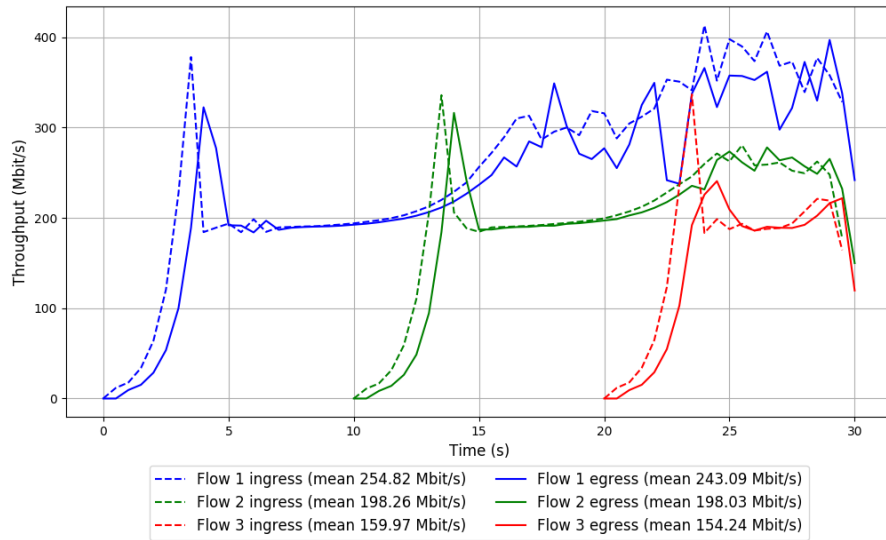
-- Flow 2:

Average throughput: 198.03 Mbit/s  
95th percentile per-packet one-way delay: 153.694 ms  
Loss rate: 1.22%

-- Flow 3:

Average throughput: 154.24 Mbit/s  
95th percentile per-packet one-way delay: 250.793 ms  
Loss rate: 5.69%

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



Run 1: Statistics of QUIC Cubic

Start at: 2019-10-02 22:40:48

End at: 2019-10-02 22:41:18

Local clock offset: 0.293 ms

Remote clock offset: 0.002 ms

# Below is generated by plot.py at 2019-10-03 05:08:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.01 Mbit/s

95th percentile per-packet one-way delay: 112.256 ms

Loss rate: 0.64%

-- Flow 1:

Average throughput: 53.62 Mbit/s

95th percentile per-packet one-way delay: 110.210 ms

Loss rate: 0.17%

-- Flow 2:

Average throughput: 53.29 Mbit/s

95th percentile per-packet one-way delay: 112.290 ms

Loss rate: 1.63%

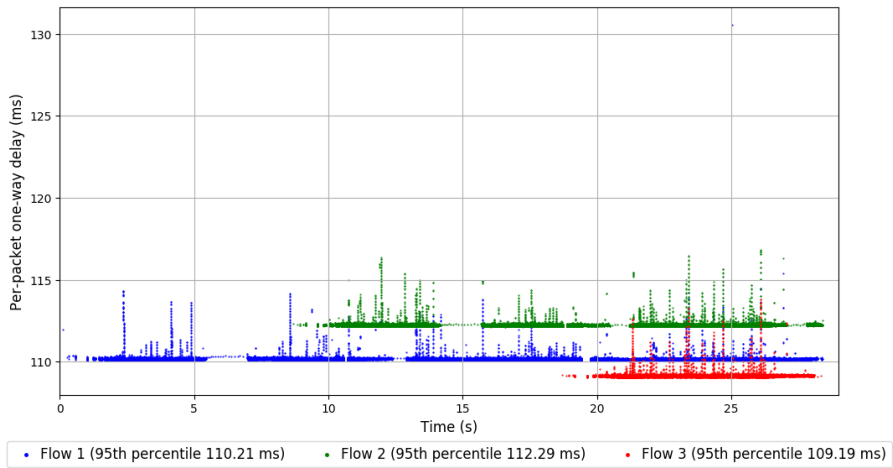
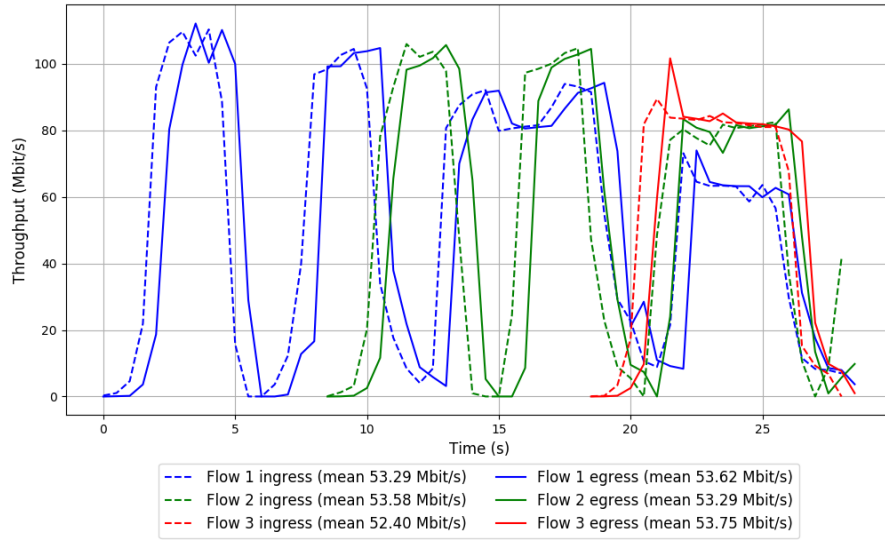
-- Flow 3:

Average throughput: 53.75 Mbit/s

95th percentile per-packet one-way delay: 109.195 ms

Loss rate: 0.00%

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



Run 2: Statistics of QUIC Cubic

Start at: 2019-10-02 23:23:41  
End at: 2019-10-02 23:24:11  
Local clock offset: -0.157 ms  
Remote clock offset: -0.007 ms

# Below is generated by plot.py at 2019-10-03 05:08:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.85 Mbit/s  
95th percentile per-packet one-way delay: 109.133 ms  
Loss rate: 1.27%

-- Flow 1:

Average throughput: 54.90 Mbit/s  
95th percentile per-packet one-way delay: 109.151 ms  
Loss rate: 1.03%

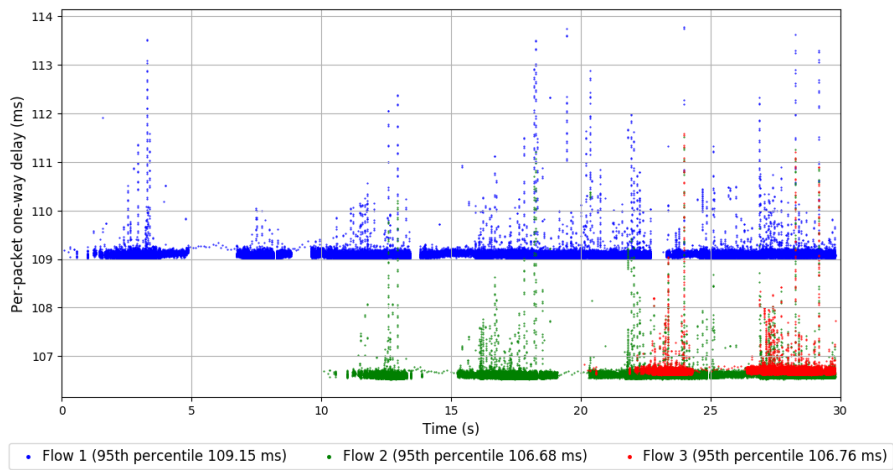
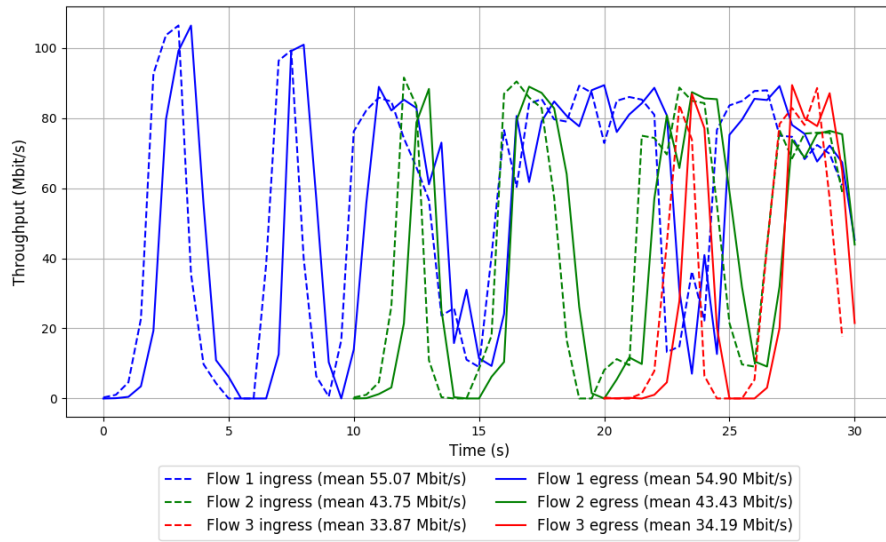
-- Flow 2:

Average throughput: 43.43 Mbit/s  
95th percentile per-packet one-way delay: 106.676 ms  
Loss rate: 1.80%

-- Flow 3:

Average throughput: 34.19 Mbit/s  
95th percentile per-packet one-way delay: 106.759 ms  
Loss rate: 1.07%

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





Run 3: Statistics of QUIC Cubic

Start at: 2019-10-03 00:06:28

End at: 2019-10-03 00:06:58

Local clock offset: 0.681 ms

Remote clock offset: 0.021 ms

# Below is generated by plot.py at 2019-10-03 05:08:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 102.43 Mbit/s

95th percentile per-packet one-way delay: 107.751 ms

Loss rate: 1.17%

-- Flow 1:

Average throughput: 63.10 Mbit/s

95th percentile per-packet one-way delay: 107.767 ms

Loss rate: 0.96%

-- Flow 2:

Average throughput: 49.55 Mbit/s

95th percentile per-packet one-way delay: 107.490 ms

Loss rate: 1.74%

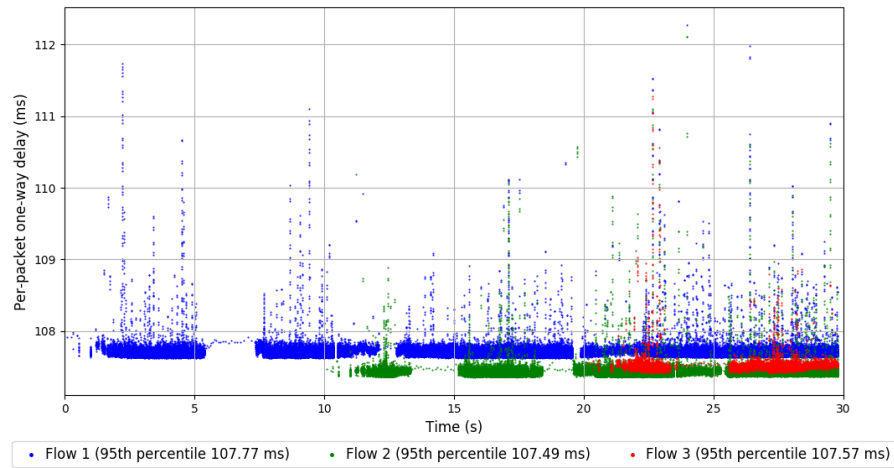
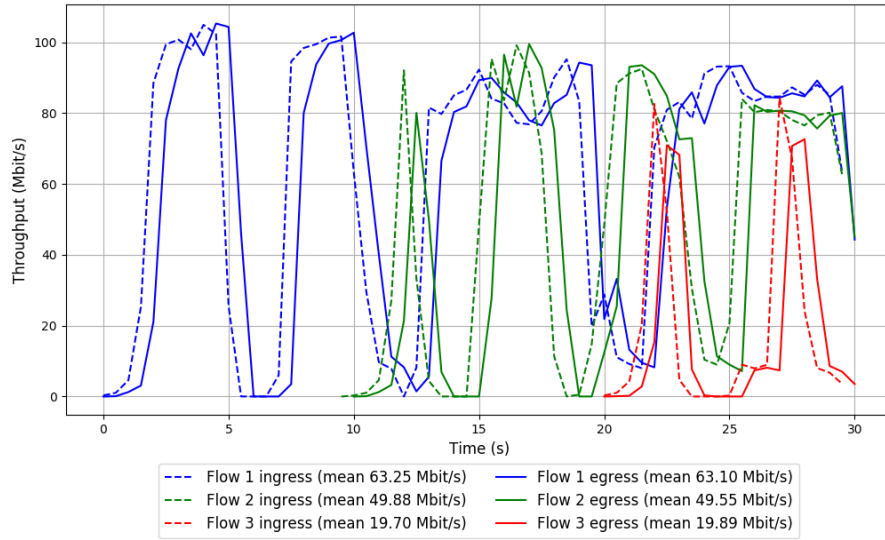
-- Flow 3:

Average throughput: 19.89 Mbit/s

95th percentile per-packet one-way delay: 107.571 ms

Loss rate: 0.36%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-10-03 00:49:31

End at: 2019-10-03 00:50:01

Local clock offset: -0.128 ms

Remote clock offset: 0.217 ms

# Below is generated by plot.py at 2019-10-03 05:08:48

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.40 Mbit/s

95th percentile per-packet one-way delay: 108.660 ms

Loss rate: 1.85%

-- Flow 1:

Average throughput: 56.39 Mbit/s

95th percentile per-packet one-way delay: 106.880 ms

Loss rate: 1.26%

-- Flow 2:

Average throughput: 41.02 Mbit/s

95th percentile per-packet one-way delay: 106.808 ms

Loss rate: 2.00%

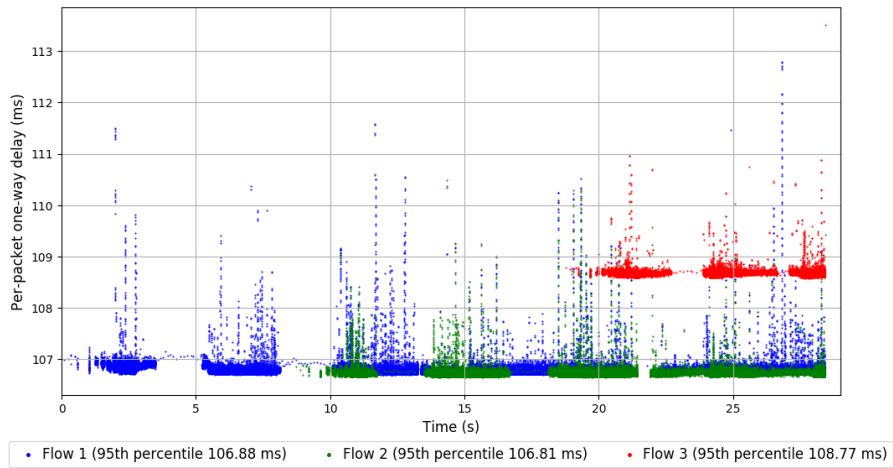
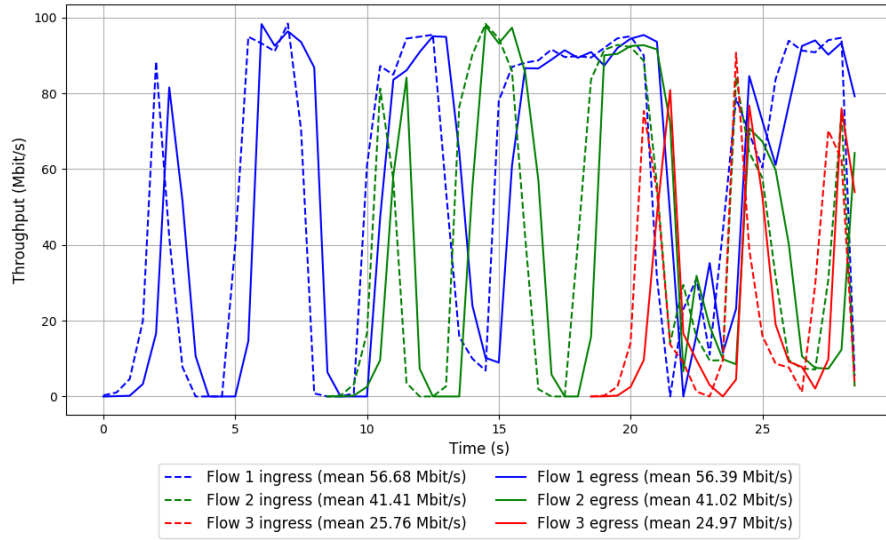
-- Flow 3:

Average throughput: 24.97 Mbit/s

95th percentile per-packet one-way delay: 108.765 ms

Loss rate: 5.13%

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

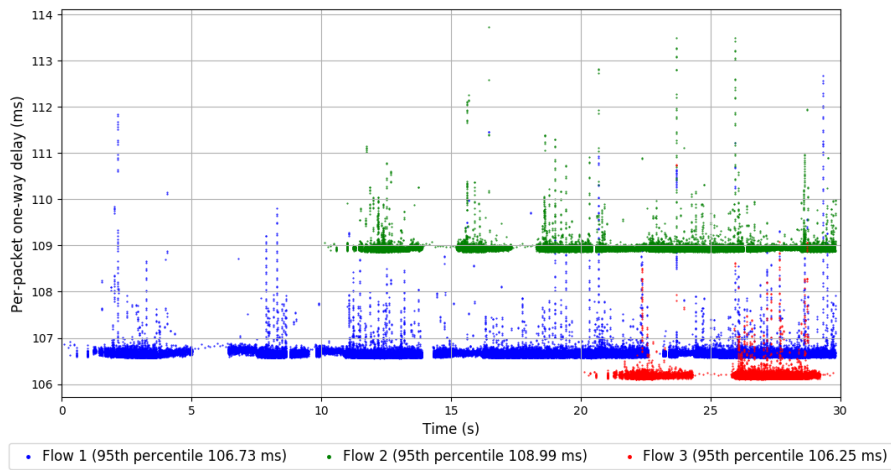
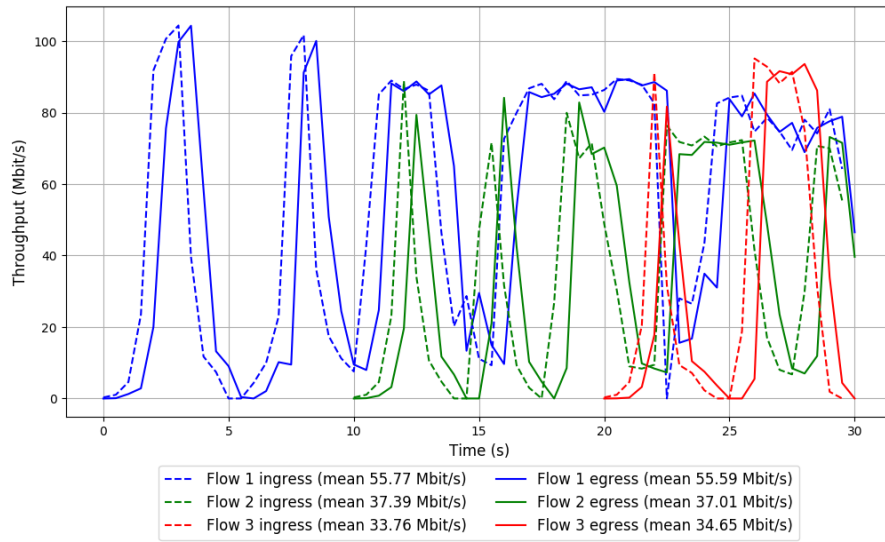


Run 5: Statistics of QUIC Cubic

Start at: 2019-10-03 01:32:28  
End at: 2019-10-03 01:32:58  
Local clock offset: -0.182 ms  
Remote clock offset: -0.048 ms

```
# Below is generated by plot.py at 2019-10-03 05:08:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.28 Mbit/s
95th percentile per-packet one-way delay: 108.952 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 55.59 Mbit/s
95th percentile per-packet one-way delay: 106.726 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 37.01 Mbit/s
95th percentile per-packet one-way delay: 108.994 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 106.251 ms
Loss rate: 0.00%
```

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



Run 1: Statistics of SCReAM

Start at: 2019-10-02 22:44:12

End at: 2019-10-02 22:44:42

Local clock offset: 0.255 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 109.354 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.358 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.109 ms

Loss rate: 1.04%

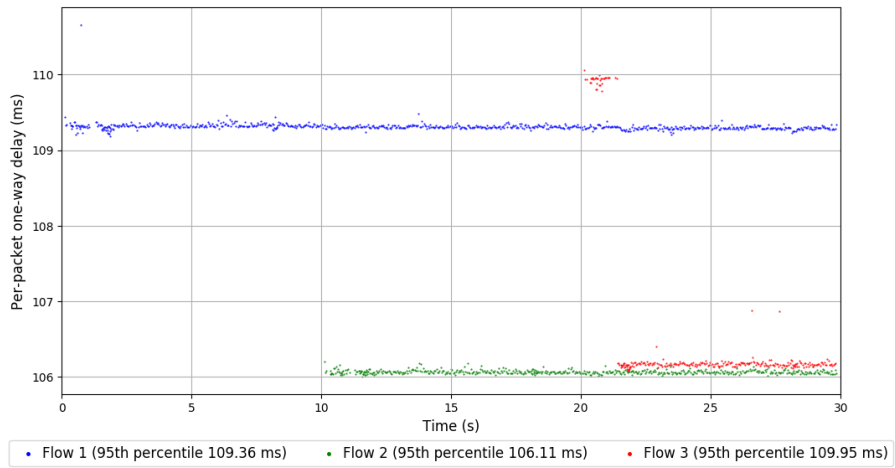
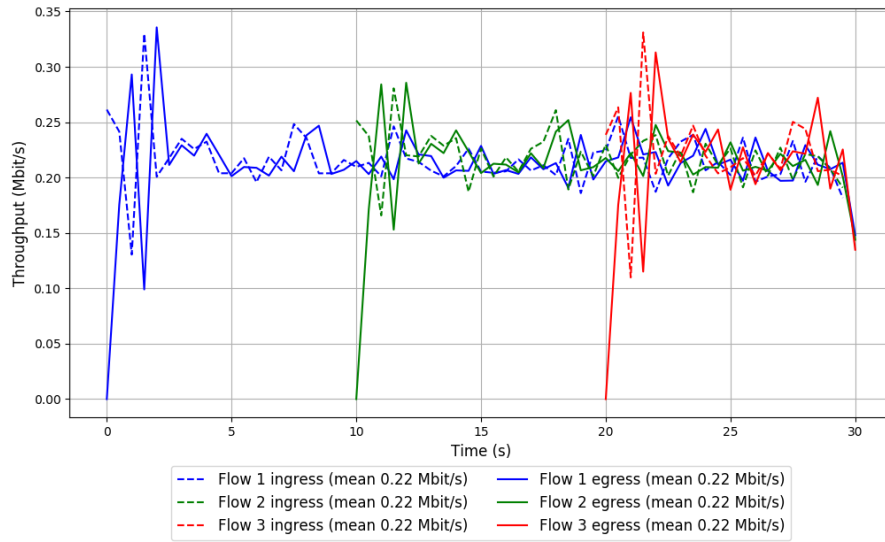
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 109.952 ms

Loss rate: 2.22%

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





Run 2: Statistics of SCReAM

Start at: 2019-10-02 23:27:11

End at: 2019-10-02 23:27:41

Local clock offset: -0.113 ms

Remote clock offset: 0.027 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 106.853 ms

Loss rate: 1.04%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.866 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.822 ms

Loss rate: 1.04%

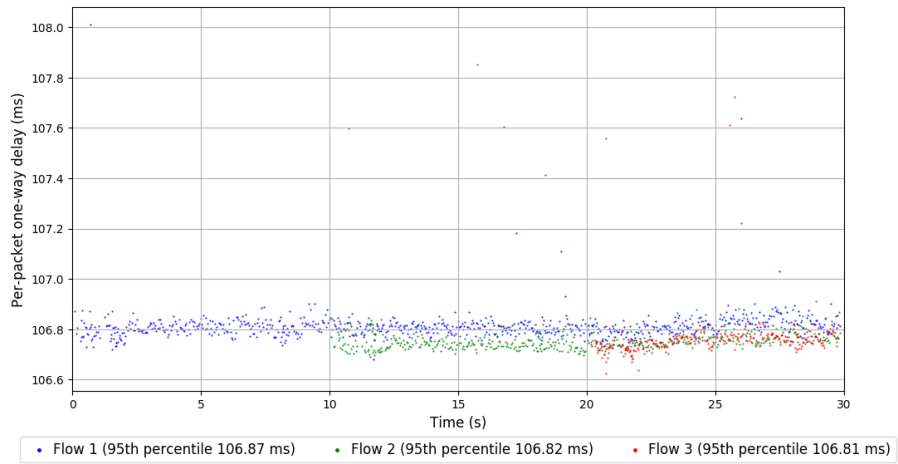
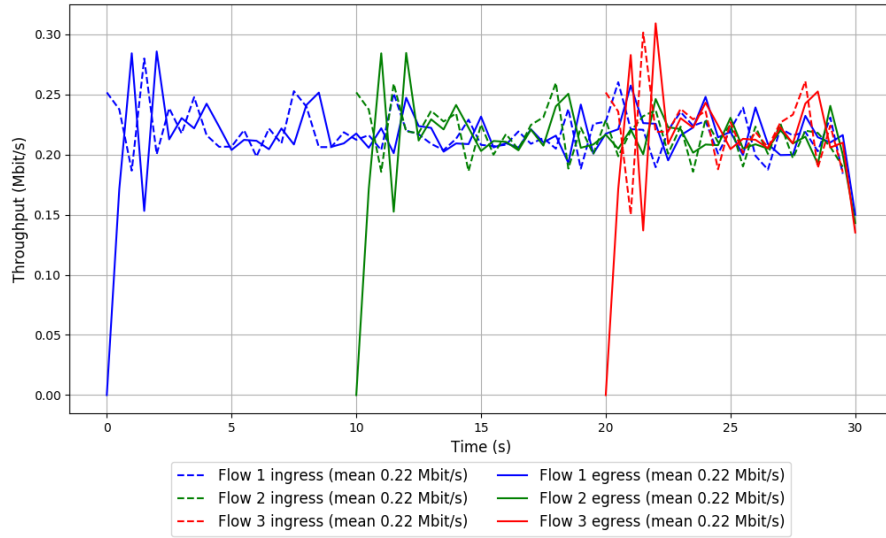
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.810 ms

Loss rate: 2.23%

## Run 2: Report of SCReAM — Data Link



Run 3: Statistics of SCReAM

Start at: 2019-10-03 00:09:53

End at: 2019-10-03 00:10:23

Local clock offset: -0.833 ms

Remote clock offset: 0.059 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 108.301 ms

Loss rate: 1.11%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.156 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 108.322 ms

Loss rate: 1.25%

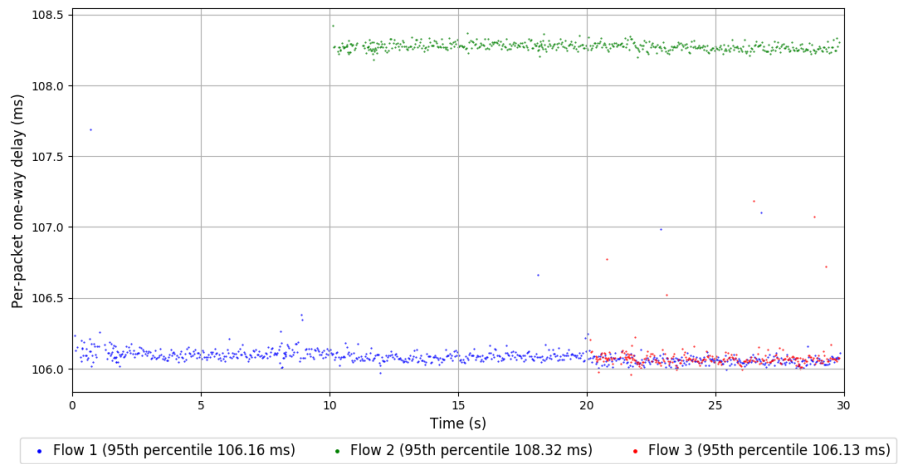
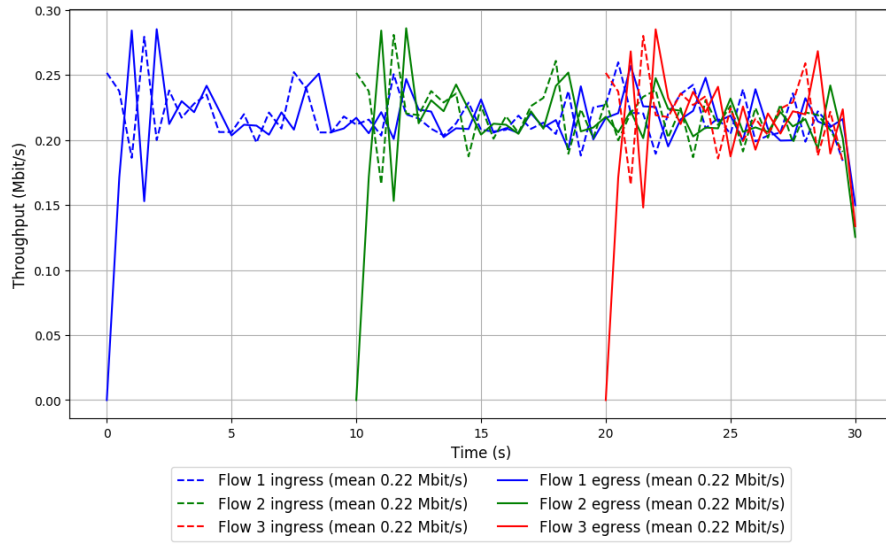
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 106.132 ms

Loss rate: 2.22%

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

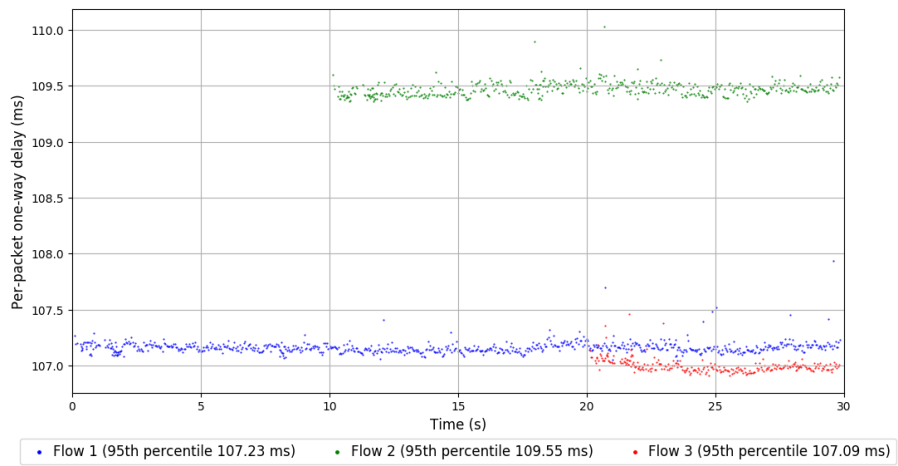
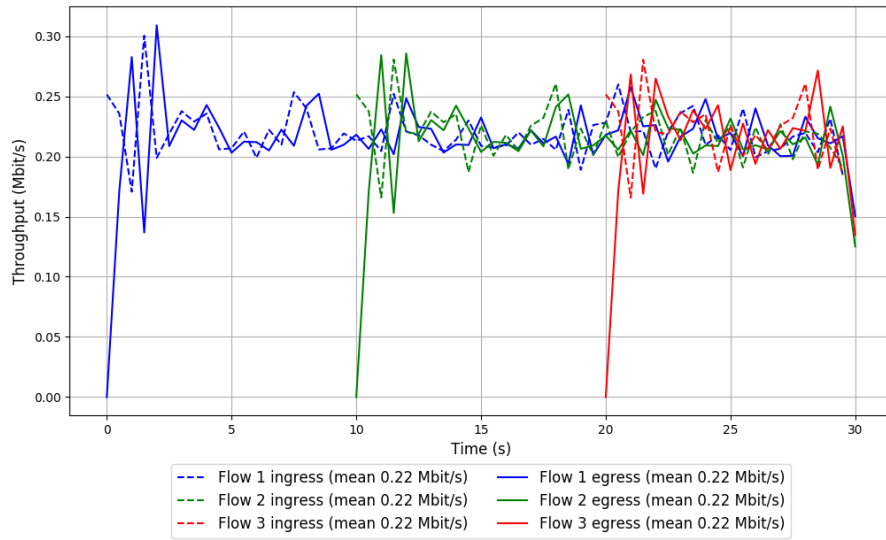


Run 4: Statistics of SCReAM

Start at: 2019-10-03 00:52:58  
End at: 2019-10-03 00:53:28  
Local clock offset: -0.114 ms  
Remote clock offset: -0.046 ms

```
# Below is generated by plot.py at 2019-10-03 05:08:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.525 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.227 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.554 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.091 ms
Loss rate: 2.22%
```

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

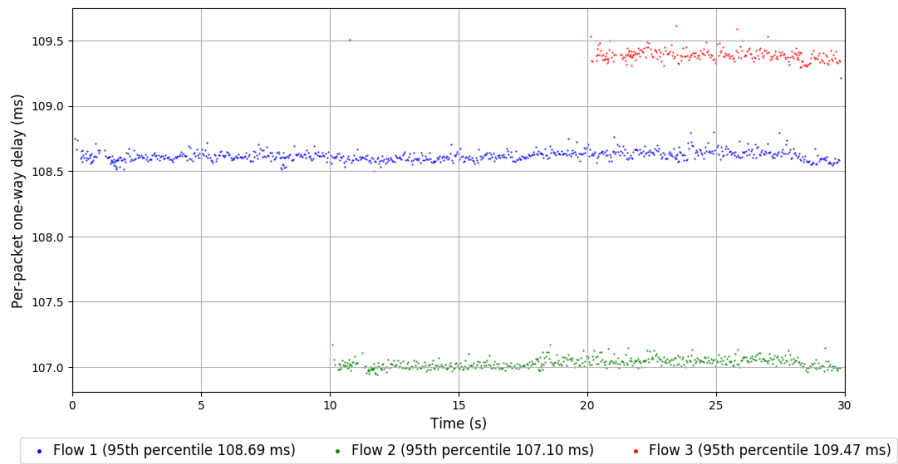
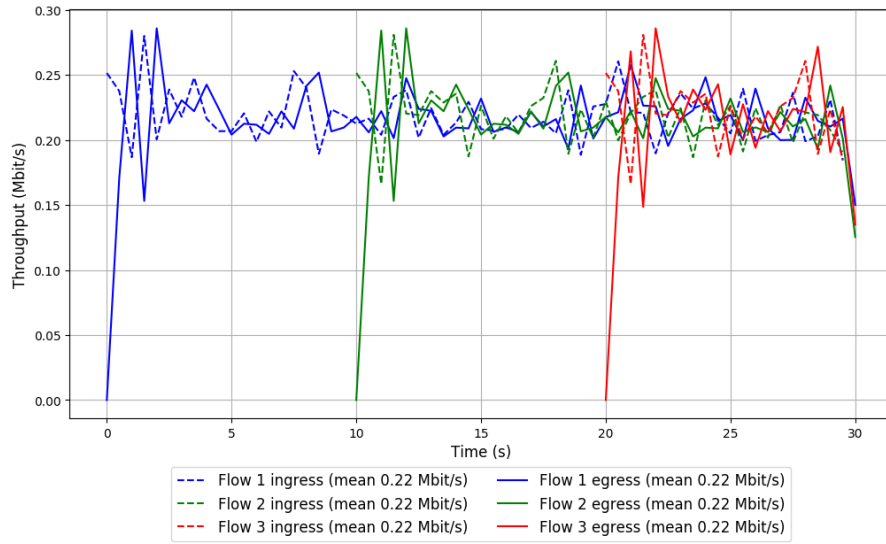


Run 5: Statistics of SCReAM

Start at: 2019-10-03 01:35:53  
End at: 2019-10-03 01:36:23  
Local clock offset: 0.071 ms  
Remote clock offset: -0.061 ms

```
# Below is generated by plot.py at 2019-10-03 05:08:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 109.406 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 108.688 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 107.096 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 109.466 ms
Loss rate: 2.22%
```

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





Run 1: Statistics of Sprout

Start at: 2019-10-02 22:45:28

End at: 2019-10-02 22:45:58

Local clock offset: 0.205 ms

Remote clock offset: -0.02 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.43 Mbit/s

95th percentile per-packet one-way delay: 110.729 ms

Loss rate: 1.64%

-- Flow 1:

Average throughput: 0.48 Mbit/s

95th percentile per-packet one-way delay: 106.195 ms

Loss rate: 0.65%

-- Flow 2:

Average throughput: 2.59 Mbit/s

95th percentile per-packet one-way delay: 110.767 ms

Loss rate: 1.93%

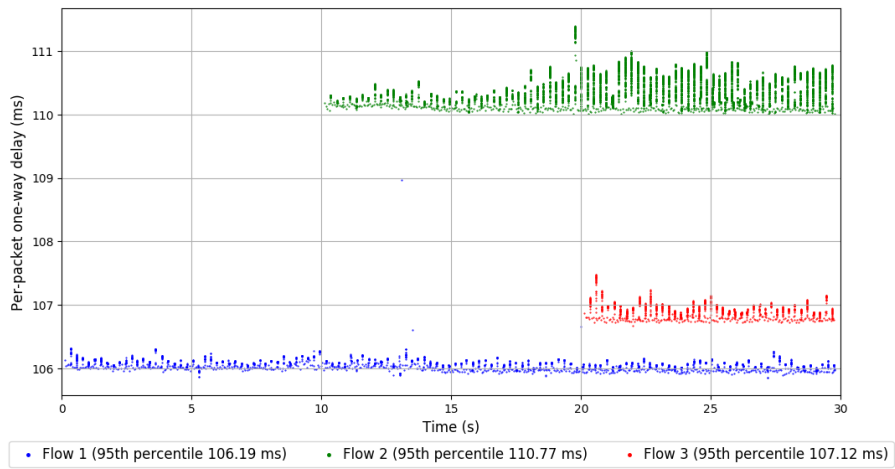
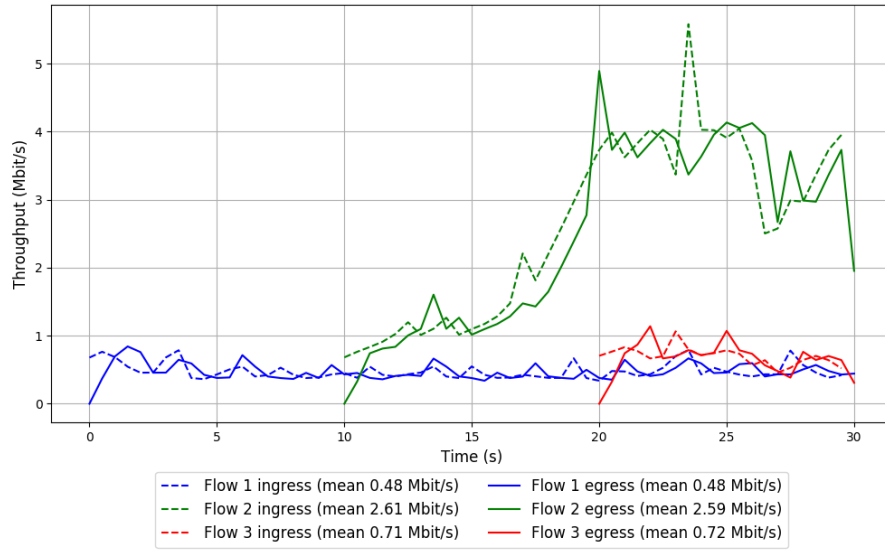
-- Flow 3:

Average throughput: 0.72 Mbit/s

95th percentile per-packet one-way delay: 107.124 ms

Loss rate: 1.54%

# Run 1: Report of Sprout — Data Link



Run 2: Statistics of Sprout

Start at: 2019-10-02 23:28:28

End at: 2019-10-02 23:28:58

Local clock offset: -0.033 ms

Remote clock offset: 0.005 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.74 Mbit/s

95th percentile per-packet one-way delay: 110.253 ms

Loss rate: 2.21%

-- Flow 1:

Average throughput: 0.53 Mbit/s

95th percentile per-packet one-way delay: 109.333 ms

Loss rate: 0.59%

-- Flow 2:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 107.083 ms

Loss rate: 0.86%

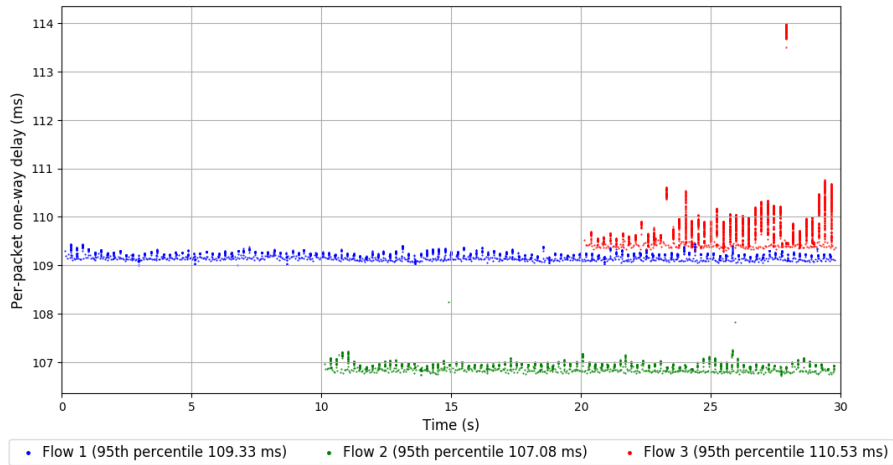
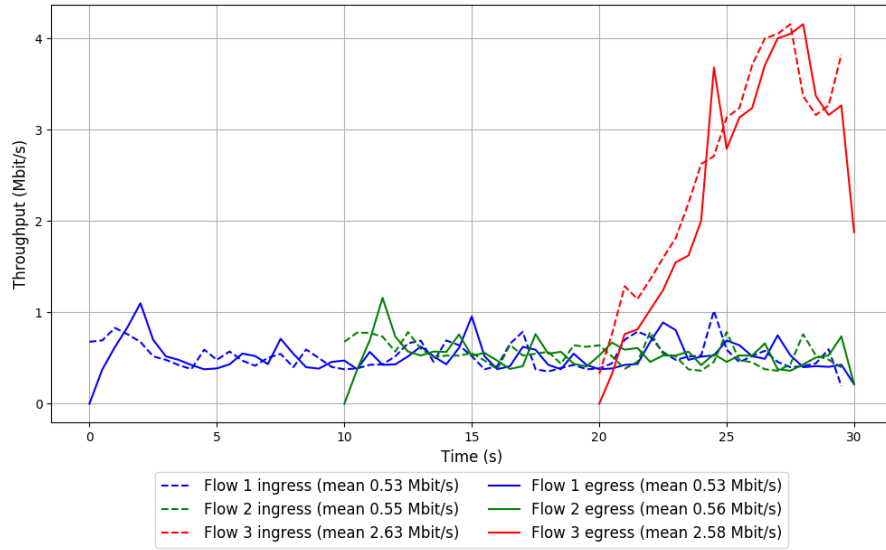
-- Flow 3:

Average throughput: 2.58 Mbit/s

95th percentile per-packet one-way delay: 110.528 ms

Loss rate: 3.77%

## Run 2: Report of Sprout — Data Link



Run 3: Statistics of Sprout

Start at: 2019-10-03 00:11:09

End at: 2019-10-03 00:11:39

Local clock offset: 0.098 ms

Remote clock offset: 0.047 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.07 Mbit/s

95th percentile per-packet one-way delay: 109.744 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 0.52 Mbit/s

95th percentile per-packet one-way delay: 106.572 ms

Loss rate: 0.62%

-- Flow 2:

Average throughput: 0.55 Mbit/s

95th percentile per-packet one-way delay: 107.573 ms

Loss rate: 0.86%

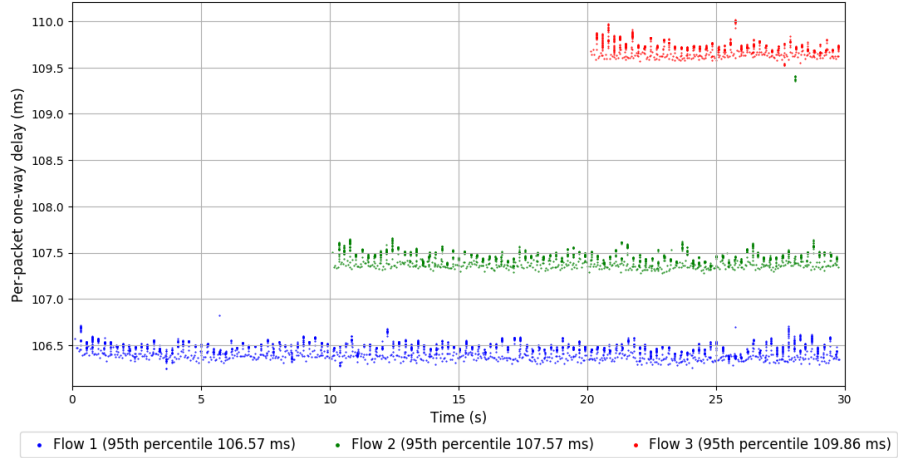
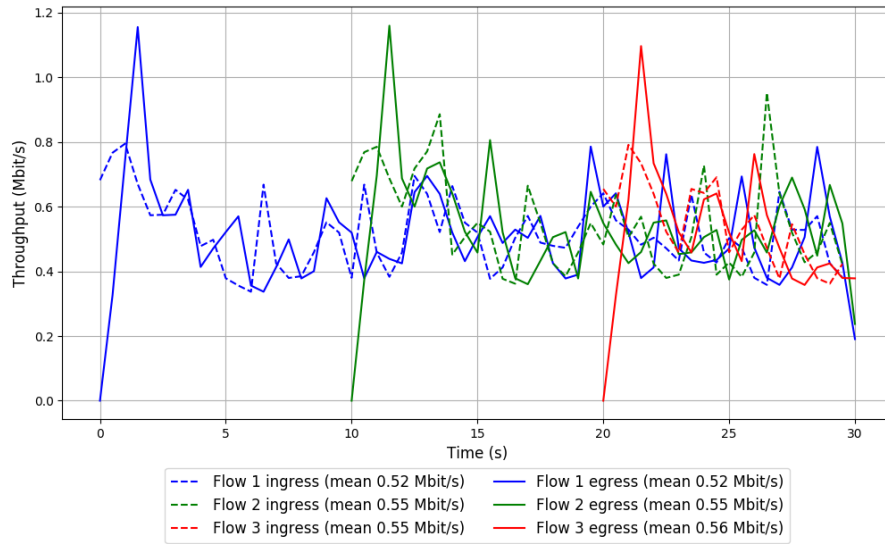
-- Flow 3:

Average throughput: 0.56 Mbit/s

95th percentile per-packet one-way delay: 109.857 ms

Loss rate: 1.94%

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



Run 4: Statistics of Sprout

Start at: 2019-10-03 00:54:14  
End at: 2019-10-03 00:54:44  
Local clock offset: -0.003 ms  
Remote clock offset: -0.081 ms

# Below is generated by plot.py at 2019-10-03 05:08:49

# Datalink statistics

-- Total of 3 flows:

Average throughput: 1.21 Mbit/s

95th percentile per-packet one-way delay: 111.833 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 0.58 Mbit/s

95th percentile per-packet one-way delay: 106.471 ms

Loss rate: 1.08%

-- Flow 2:

Average throughput: 0.63 Mbit/s

95th percentile per-packet one-way delay: 111.899 ms

Loss rate: 0.03%

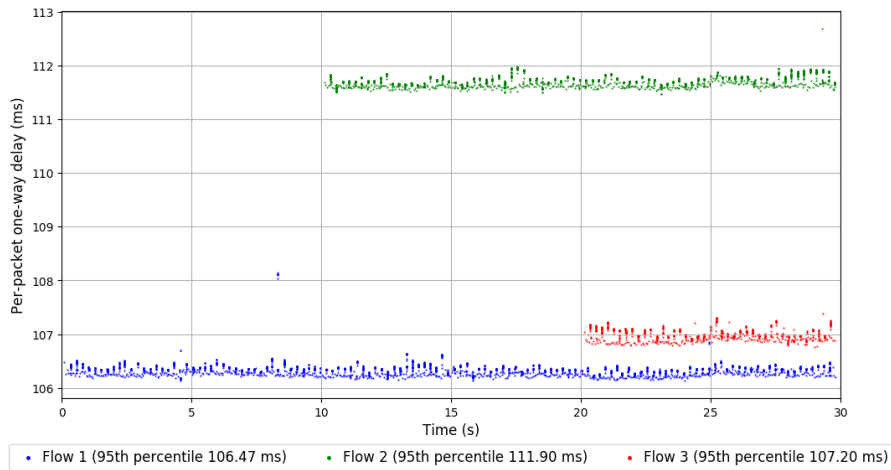
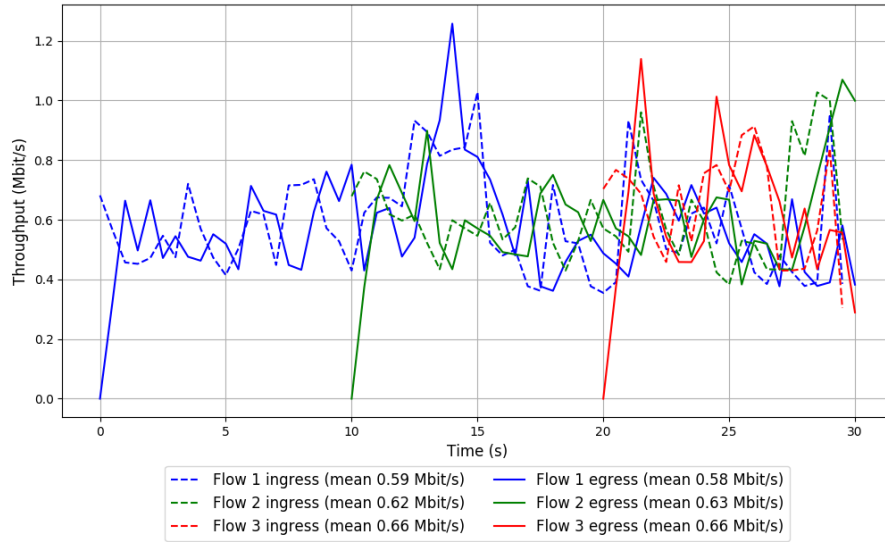
-- Flow 3:

Average throughput: 0.66 Mbit/s

95th percentile per-packet one-way delay: 107.201 ms

Loss rate: 2.31%

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



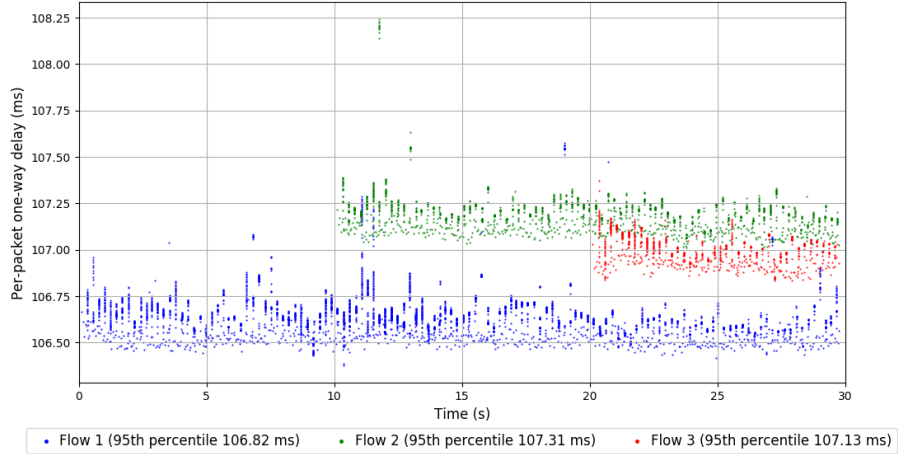
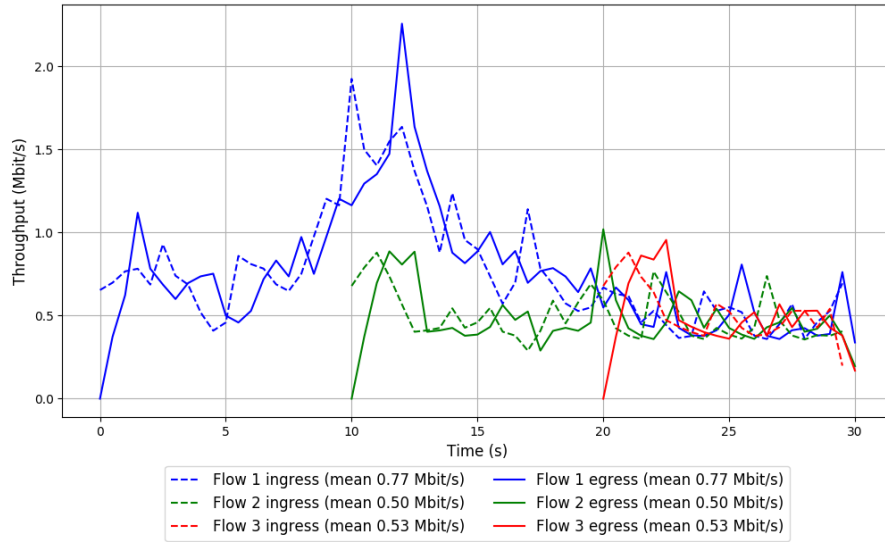


Run 5: Statistics of Sprout

Start at: 2019-10-03 01:37:09  
End at: 2019-10-03 01:37:39  
Local clock offset: 0.054 ms  
Remote clock offset: -0.039 ms

```
# Below is generated by plot.py at 2019-10-03 05:08:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 107.248 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 106.823 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 0.50 Mbit/s
95th percentile per-packet one-way delay: 107.314 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 107.127 ms
Loss rate: 1.87%
```

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

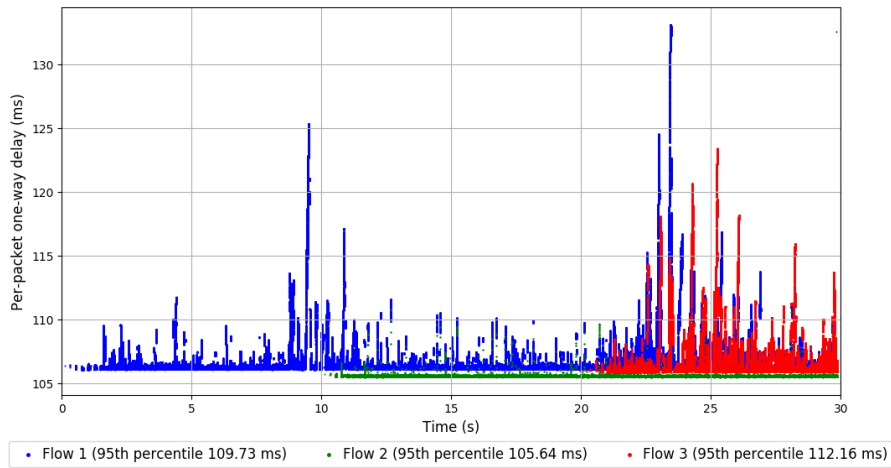
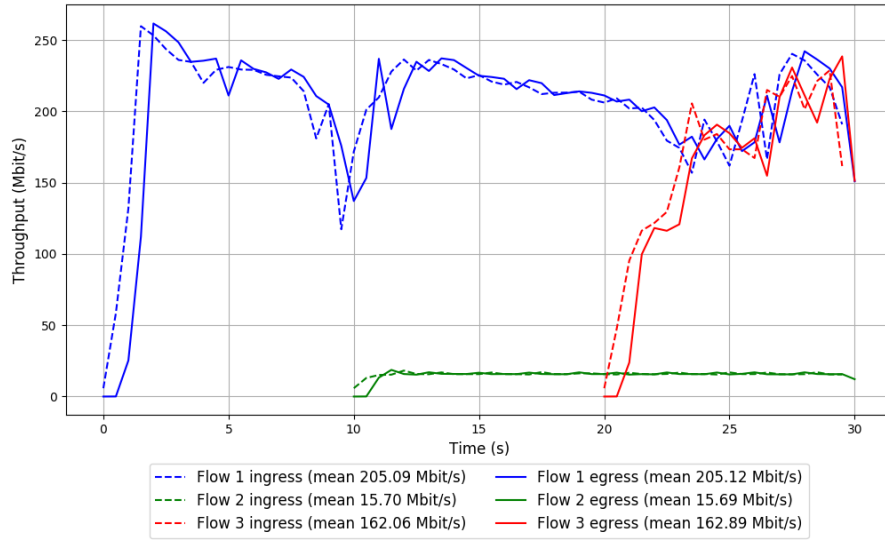


Run 1: Statistics of TaoVA-100x

Start at: 2019-10-02 22:54:36  
End at: 2019-10-02 22:55:06  
Local clock offset: -0.267 ms  
Remote clock offset: -0.028 ms

# Below is generated by plot.py at 2019-10-03 05:10:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 268.82 Mbit/s  
95th percentile per-packet one-way delay: 110.282 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 205.12 Mbit/s  
95th percentile per-packet one-way delay: 109.735 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 15.69 Mbit/s  
95th percentile per-packet one-way delay: 105.644 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 162.89 Mbit/s  
95th percentile per-packet one-way delay: 112.163 ms  
Loss rate: 1.63%

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

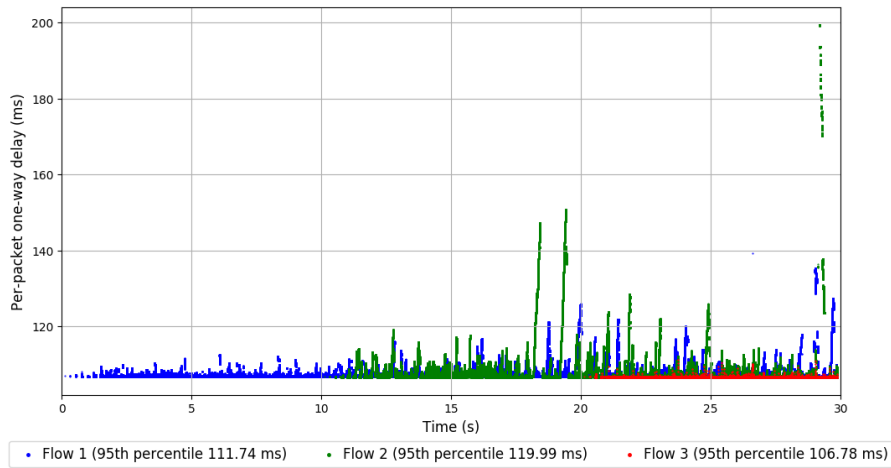
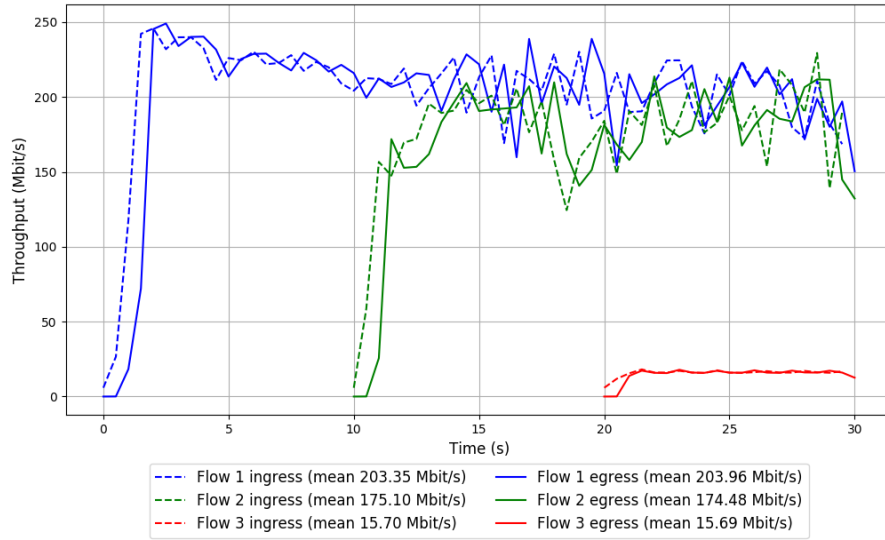


Run 2: Statistics of TaoVA-100x

Start at: 2019-10-02 23:37:24  
End at: 2019-10-02 23:37:54  
Local clock offset: -0.782 ms  
Remote clock offset: -0.399 ms

# Below is generated by plot.py at 2019-10-03 05:13:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.66 Mbit/s  
95th percentile per-packet one-way delay: 114.134 ms  
Loss rate: 0.87%  
-- Flow 1:  
Average throughput: 203.96 Mbit/s  
95th percentile per-packet one-way delay: 111.742 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 174.48 Mbit/s  
95th percentile per-packet one-way delay: 119.988 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 15.69 Mbit/s  
95th percentile per-packet one-way delay: 106.779 ms  
Loss rate: 2.25%

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

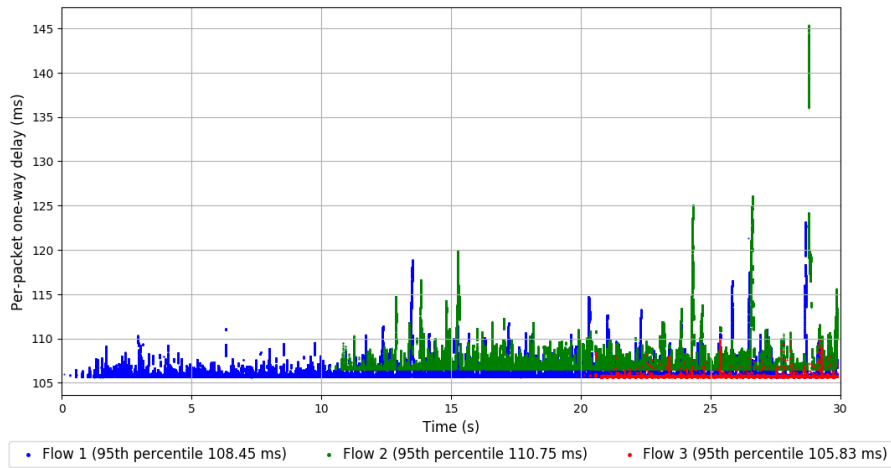
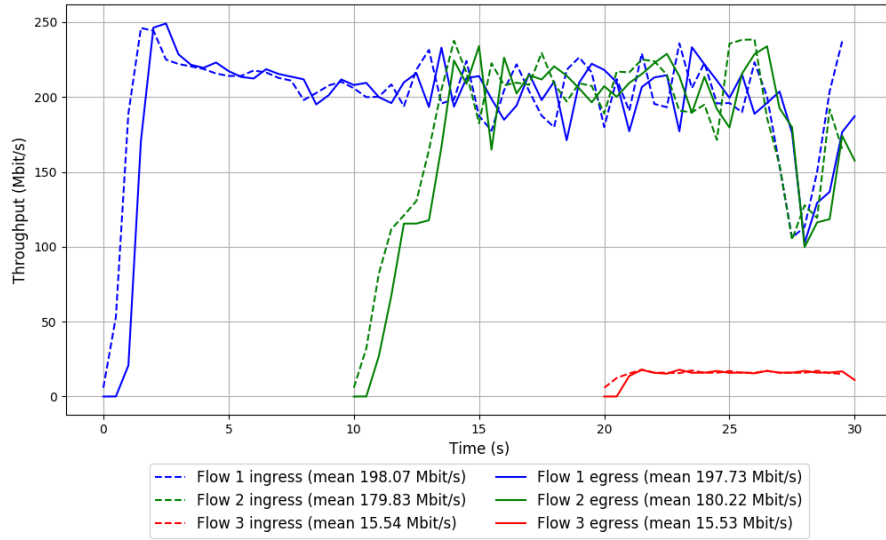


Run 3: Statistics of TaoVA-100x

Start at: 2019-10-03 00:20:10  
End at: 2019-10-03 00:20:40  
Local clock offset: -0.45 ms  
Remote clock offset: -0.009 ms

```
# Below is generated by plot.py at 2019-10-03 05:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 322.42 Mbit/s
95th percentile per-packet one-way delay: 109.241 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 197.73 Mbit/s
95th percentile per-packet one-way delay: 108.447 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 180.22 Mbit/s
95th percentile per-packet one-way delay: 110.748 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 15.53 Mbit/s
95th percentile per-packet one-way delay: 105.826 ms
Loss rate: 2.26%
```

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



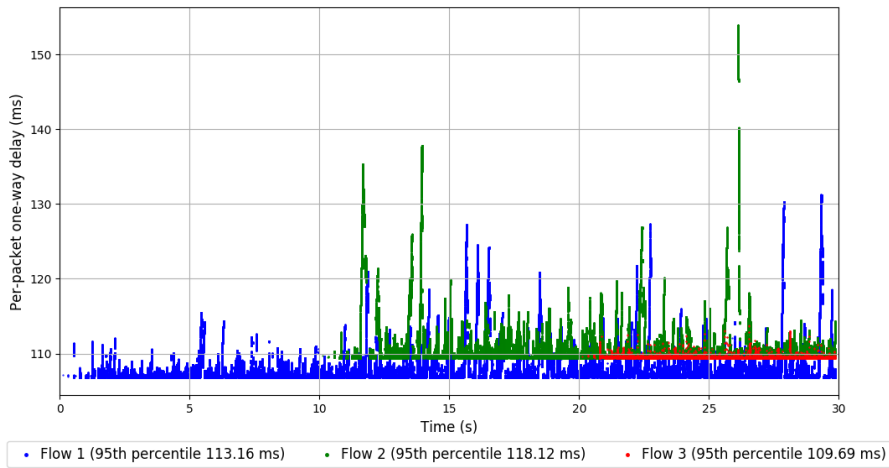
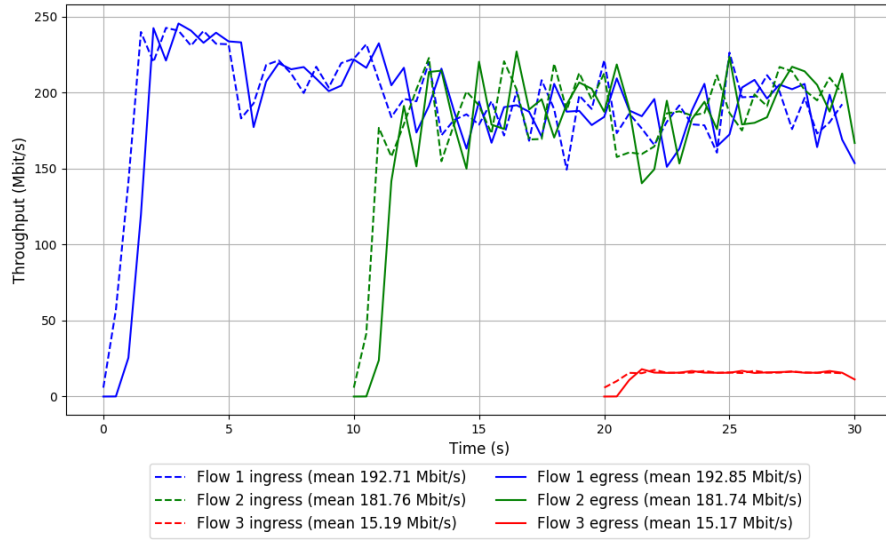


Run 4: Statistics of TaoVA-100x

Start at: 2019-10-03 01:03:10  
End at: 2019-10-03 01:03:40  
Local clock offset: 0.029 ms  
Remote clock offset: -0.069 ms

```
# Below is generated by plot.py at 2019-10-03 05:13:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 318.44 Mbit/s
95th percentile per-packet one-way delay: 115.388 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 192.85 Mbit/s
95th percentile per-packet one-way delay: 113.155 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 181.74 Mbit/s
95th percentile per-packet one-way delay: 118.119 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 15.17 Mbit/s
95th percentile per-packet one-way delay: 109.695 ms
Loss rate: 2.32%
```

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

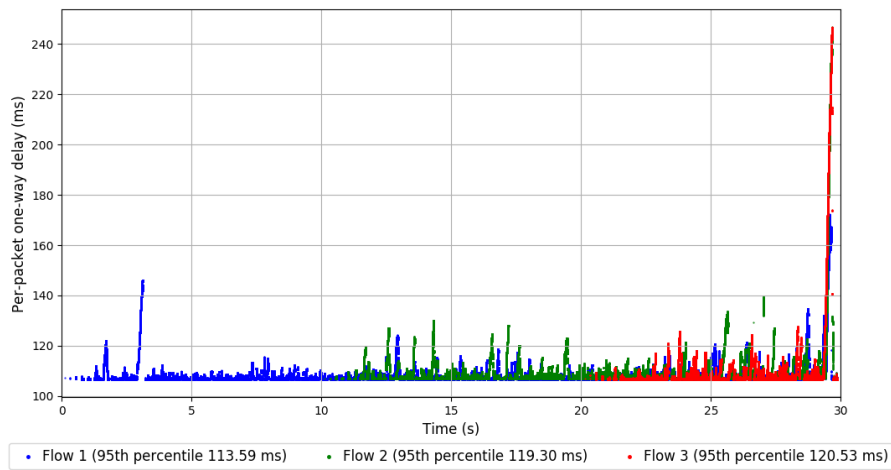
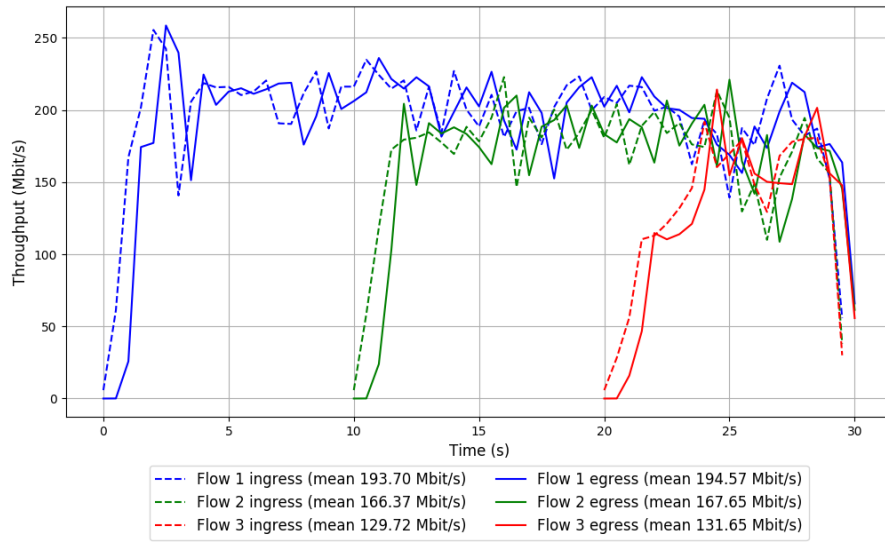


Run 5: Statistics of TaoVA-100x

Start at: 2019-10-03 01:45:48  
End at: 2019-10-03 01:46:18  
Local clock offset: -0.139 ms  
Remote clock offset: -0.053 ms

```
# Below is generated by plot.py at 2019-10-03 05:15:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.90 Mbit/s
95th percentile per-packet one-way delay: 116.655 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 194.57 Mbit/s
95th percentile per-packet one-way delay: 113.591 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 167.65 Mbit/s
95th percentile per-packet one-way delay: 119.302 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 131.65 Mbit/s
95th percentile per-packet one-way delay: 120.531 ms
Loss rate: 0.71%
```

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



Run 1: Statistics of TCP Vegas

Start at: 2019-10-02 23:00:33

End at: 2019-10-02 23:01:03

Local clock offset: 0.534 ms

Remote clock offset: 0.045 ms

# Below is generated by plot.py at 2019-10-03 05:18:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 780.71 Mbit/s

95th percentile per-packet one-way delay: 181.201 ms

Loss rate: 0.93%

-- Flow 1:

Average throughput: 421.57 Mbit/s

95th percentile per-packet one-way delay: 176.726 ms

Loss rate: 0.47%

-- Flow 2:

Average throughput: 409.68 Mbit/s

95th percentile per-packet one-way delay: 183.958 ms

Loss rate: 0.90%

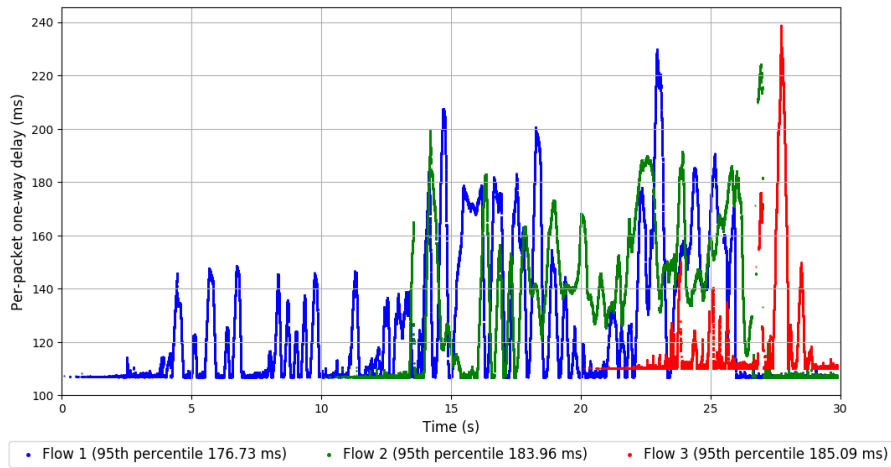
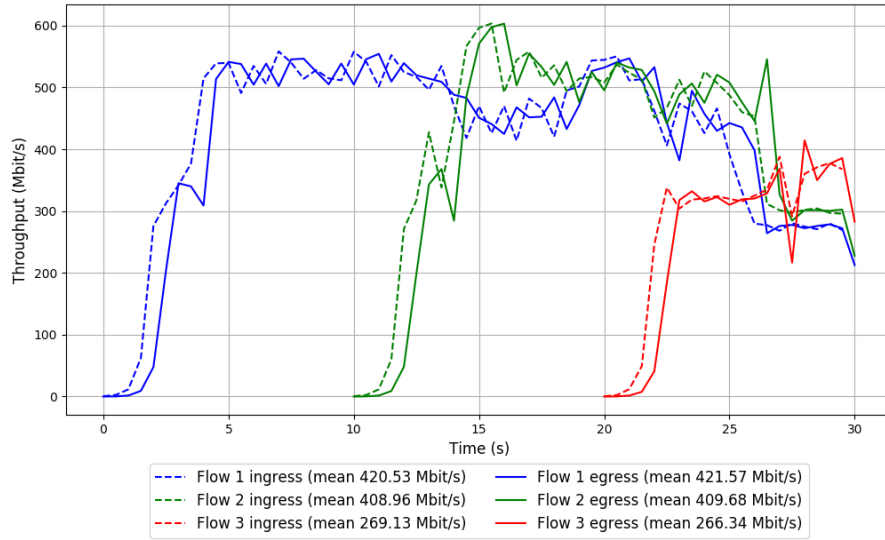
-- Flow 3:

Average throughput: 266.34 Mbit/s

95th percentile per-packet one-way delay: 185.093 ms

Loss rate: 3.19%

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



Run 2: Statistics of TCP Vegas

Start at: 2019-10-02 23:43:22  
End at: 2019-10-02 23:43:52  
Local clock offset: 0.078 ms  
Remote clock offset: -0.014 ms

# Below is generated by plot.py at 2019-10-03 05:22:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 640.73 Mbit/s  
95th percentile per-packet one-way delay: 179.580 ms  
Loss rate: 1.49%

-- Flow 1:

Average throughput: 342.59 Mbit/s  
95th percentile per-packet one-way delay: 134.631 ms  
Loss rate: 0.80%

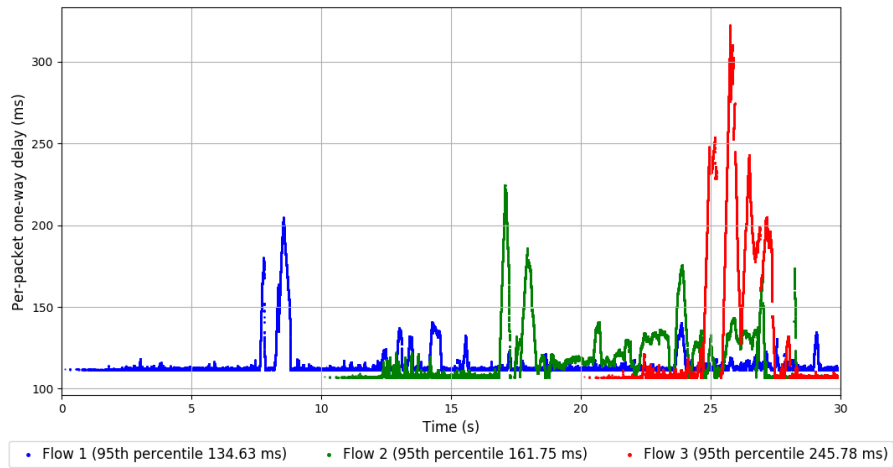
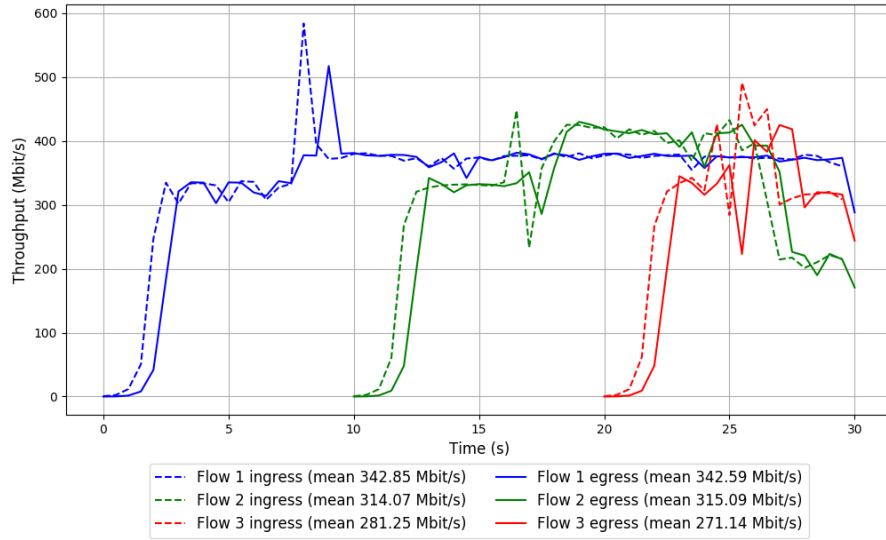
-- Flow 2:

Average throughput: 315.09 Mbit/s  
95th percentile per-packet one-way delay: 161.754 ms  
Loss rate: 0.74%

-- Flow 3:

Average throughput: 271.14 Mbit/s  
95th percentile per-packet one-way delay: 245.785 ms  
Loss rate: 5.66%

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





Run 3: Statistics of TCP Vegas

Start at: 2019-10-03 00:26:07  
End at: 2019-10-03 00:26:37  
Local clock offset: 0.03 ms  
Remote clock offset: -0.037 ms

# Below is generated by plot.py at 2019-10-03 05:25:09

# Datalink statistics

-- Total of 3 flows:

Average throughput: 715.40 Mbit/s  
95th percentile per-packet one-way delay: 213.011 ms  
Loss rate: 1.59%

-- Flow 1:

Average throughput: 349.87 Mbit/s  
95th percentile per-packet one-way delay: 123.902 ms  
Loss rate: 0.84%

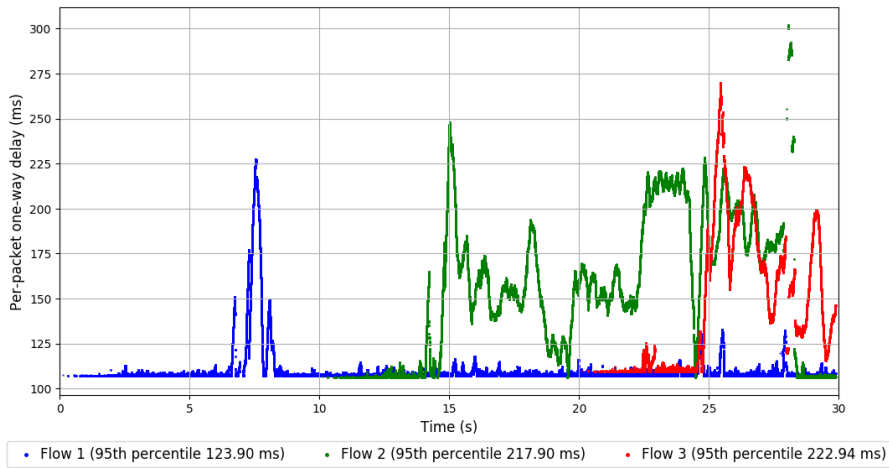
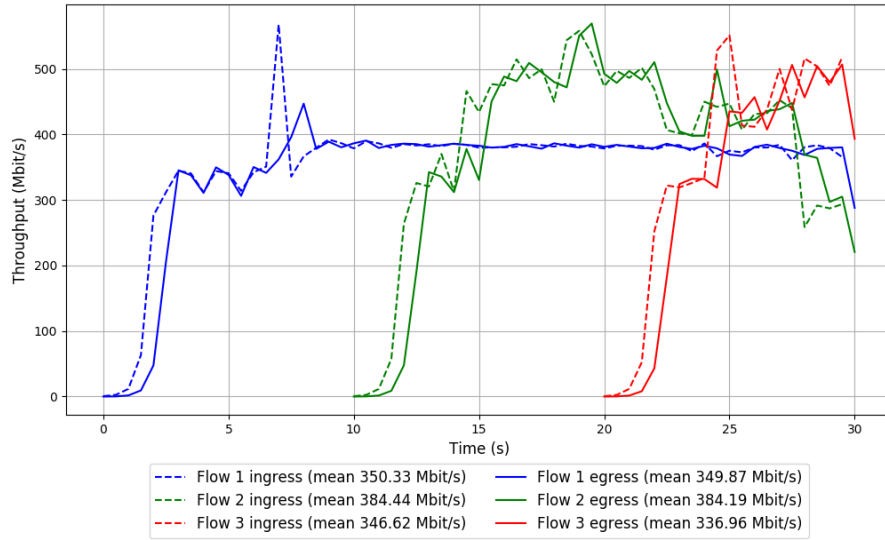
-- Flow 2:

Average throughput: 384.19 Mbit/s  
95th percentile per-packet one-way delay: 217.898 ms  
Loss rate: 1.13%

-- Flow 3:

Average throughput: 336.96 Mbit/s  
95th percentile per-packet one-way delay: 222.944 ms  
Loss rate: 4.89%

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

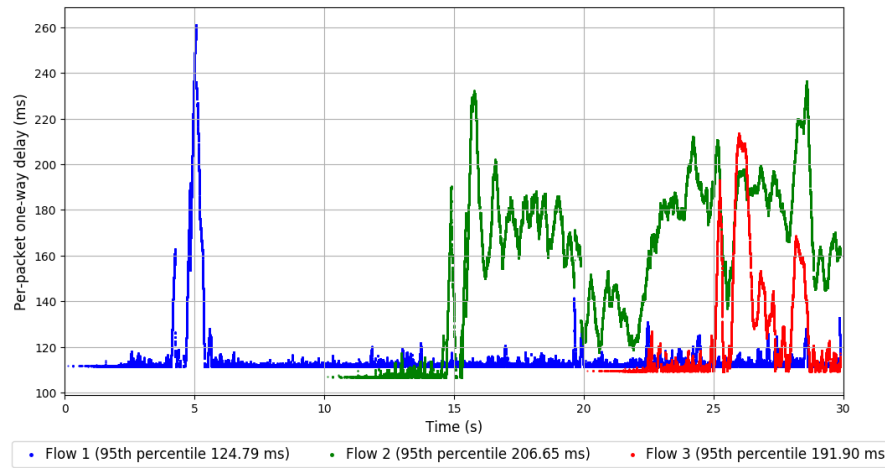
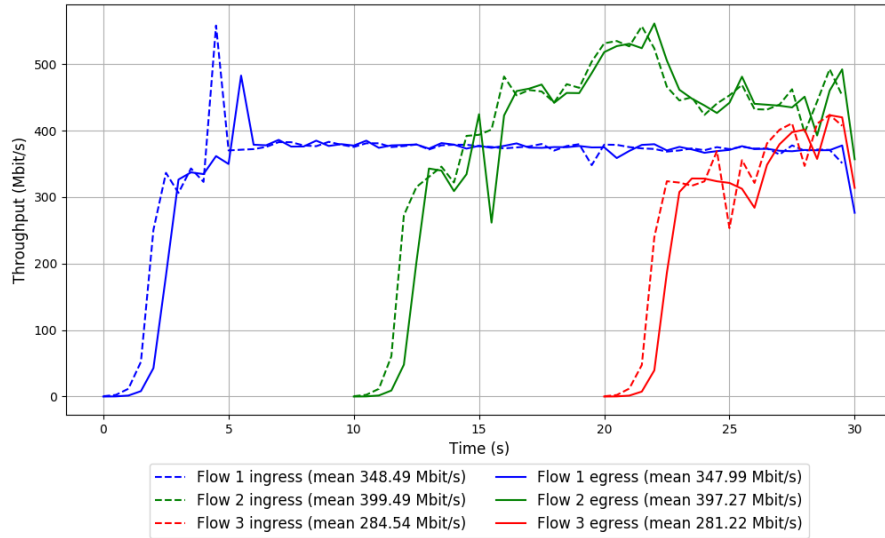


Run 4: Statistics of TCP Vegas

Start at: 2019-10-03 01:09:13  
End at: 2019-10-03 01:09:43  
Local clock offset: 0.02 ms  
Remote clock offset: -0.107 ms

```
# Below is generated by plot.py at 2019-10-03 05:26:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 703.78 Mbit/s
95th percentile per-packet one-way delay: 195.877 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 347.99 Mbit/s
95th percentile per-packet one-way delay: 124.793 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 397.27 Mbit/s
95th percentile per-packet one-way delay: 206.653 ms
Loss rate: 1.62%
-- Flow 3:
Average throughput: 281.22 Mbit/s
95th percentile per-packet one-way delay: 191.898 ms
Loss rate: 3.31%
```

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-10-03 01:51:52  
End at: 2019-10-03 01:52:22  
Local clock offset: -0.099 ms  
Remote clock offset: -0.053 ms

# Below is generated by plot.py at 2019-10-03 05:27:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 687.06 Mbit/s  
95th percentile per-packet one-way delay: 155.447 ms  
Loss rate: 1.00%

-- Flow 1:

Average throughput: 368.00 Mbit/s  
95th percentile per-packet one-way delay: 130.744 ms  
Loss rate: 0.42%

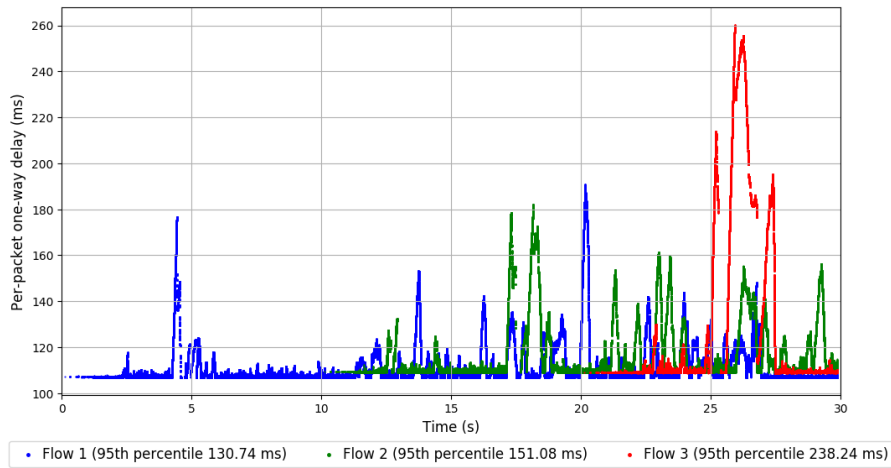
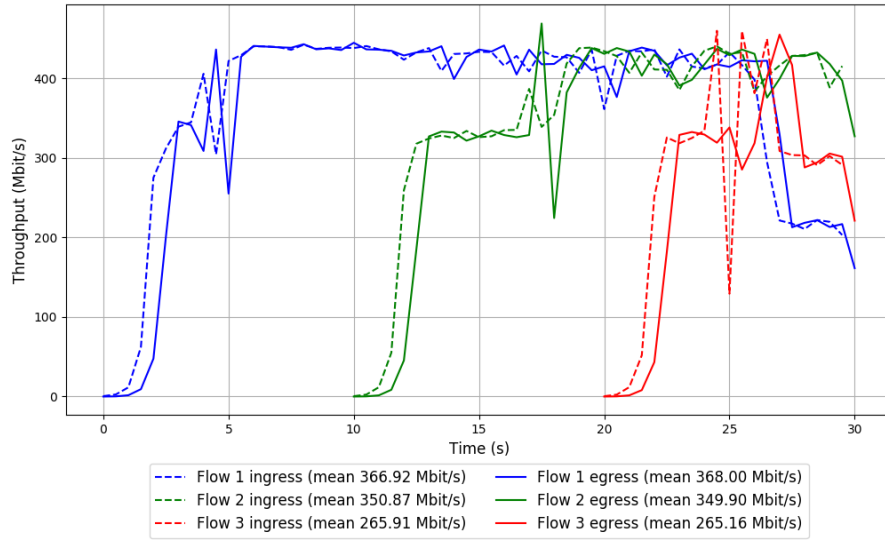
-- Flow 2:

Average throughput: 349.90 Mbit/s  
95th percentile per-packet one-way delay: 151.081 ms  
Loss rate: 1.35%

-- Flow 3:

Average throughput: 265.16 Mbit/s  
95th percentile per-packet one-way delay: 238.240 ms  
Loss rate: 2.44%

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



Run 1: Statistics of Verus

Start at: 2019-10-02 23:18:45  
End at: 2019-10-02 23:19:15  
Local clock offset: -0.023 ms  
Remote clock offset: -0.001 ms

# Below is generated by plot.py at 2019-10-03 05:27:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 119.39 Mbit/s  
95th percentile per-packet one-way delay: 207.626 ms  
Loss rate: 2.57%

-- Flow 1:

Average throughput: 40.84 Mbit/s  
95th percentile per-packet one-way delay: 229.987 ms  
Loss rate: 5.44%

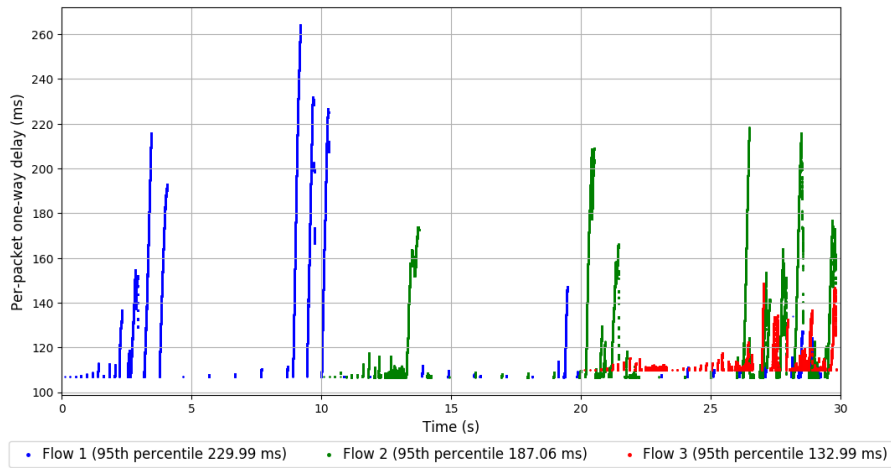
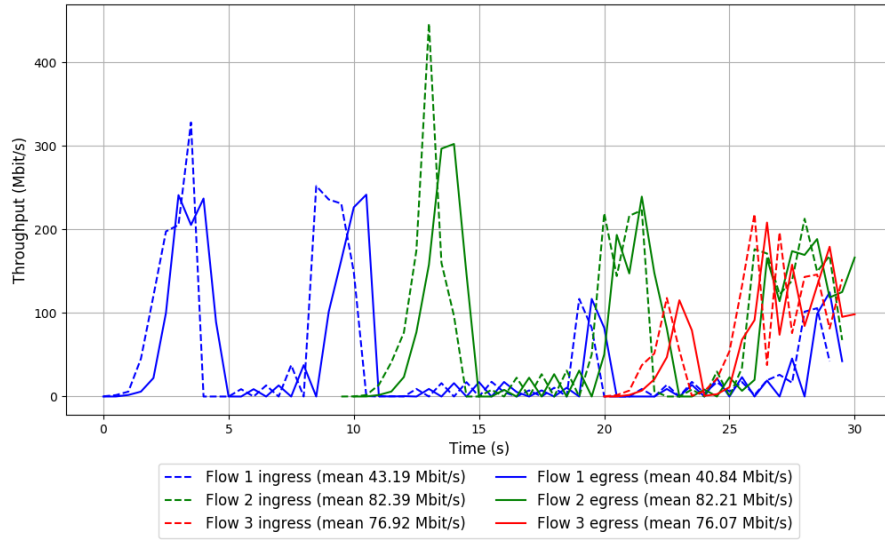
-- Flow 2:

Average throughput: 82.21 Mbit/s  
95th percentile per-packet one-way delay: 187.061 ms  
Loss rate: 0.00%

-- Flow 3:

Average throughput: 76.07 Mbit/s  
95th percentile per-packet one-way delay: 132.991 ms  
Loss rate: 3.29%

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





Run 2: Statistics of Verus

Start at: 2019-10-03 00:01:12

End at: 2019-10-03 00:01:42

Local clock offset: -0.856 ms

Remote clock offset: 0.012 ms

# Below is generated by plot.py at 2019-10-03 05:27:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 155.95 Mbit/s

95th percentile per-packet one-way delay: 306.359 ms

Loss rate: 6.24%

-- Flow 1:

Average throughput: 69.76 Mbit/s

95th percentile per-packet one-way delay: 148.126 ms

Loss rate: 0.57%

-- Flow 2:

Average throughput: 59.53 Mbit/s

95th percentile per-packet one-way delay: 277.161 ms

Loss rate: 1.31%

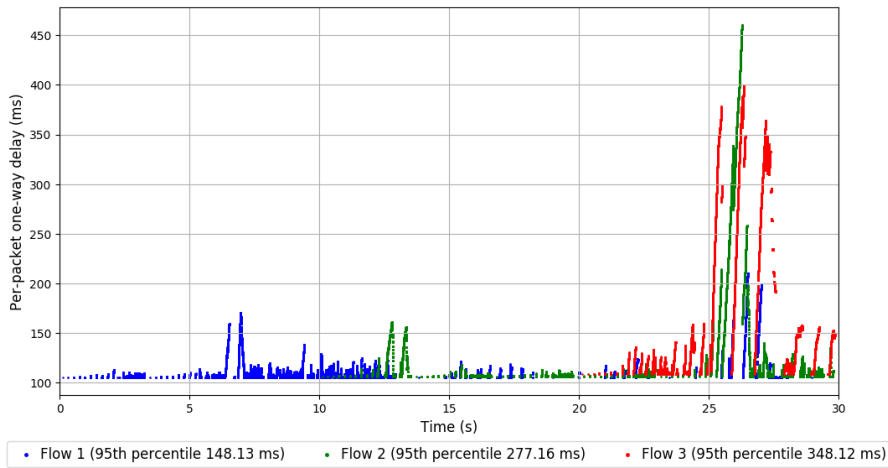
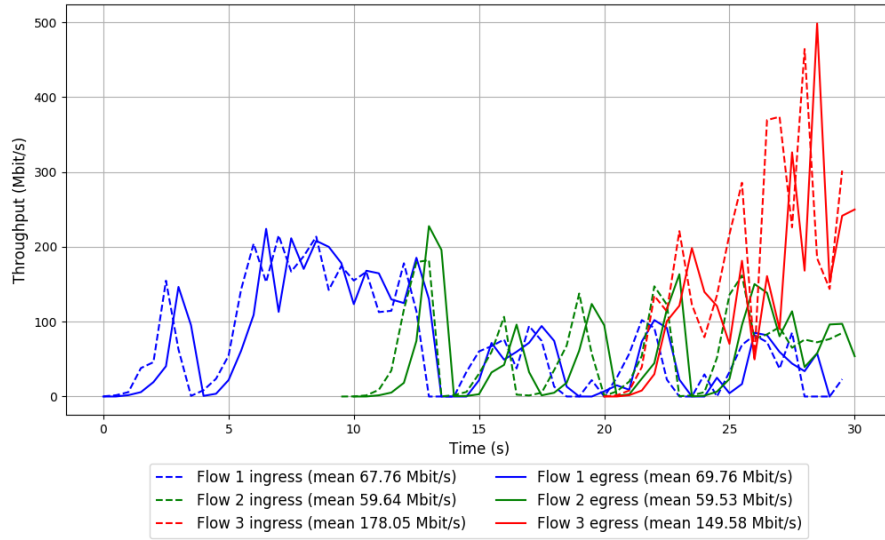
-- Flow 3:

Average throughput: 149.58 Mbit/s

95th percentile per-packet one-way delay: 348.115 ms

Loss rate: 16.23%

Run 2: Report of Verus — Data Link

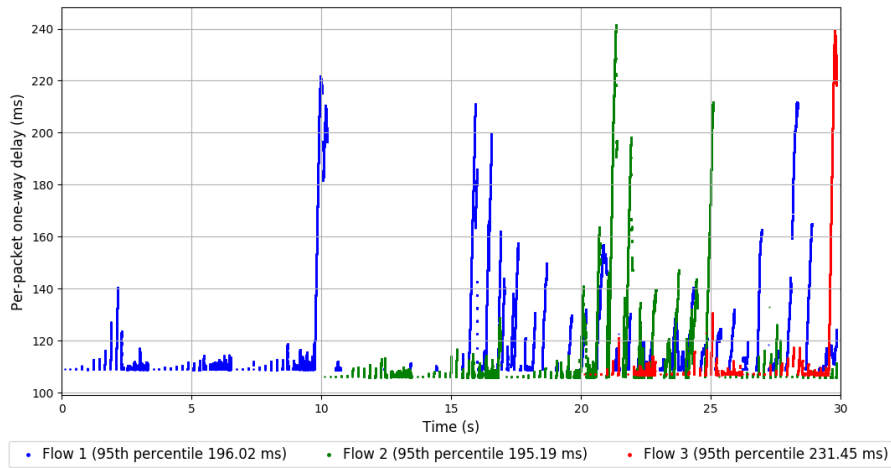
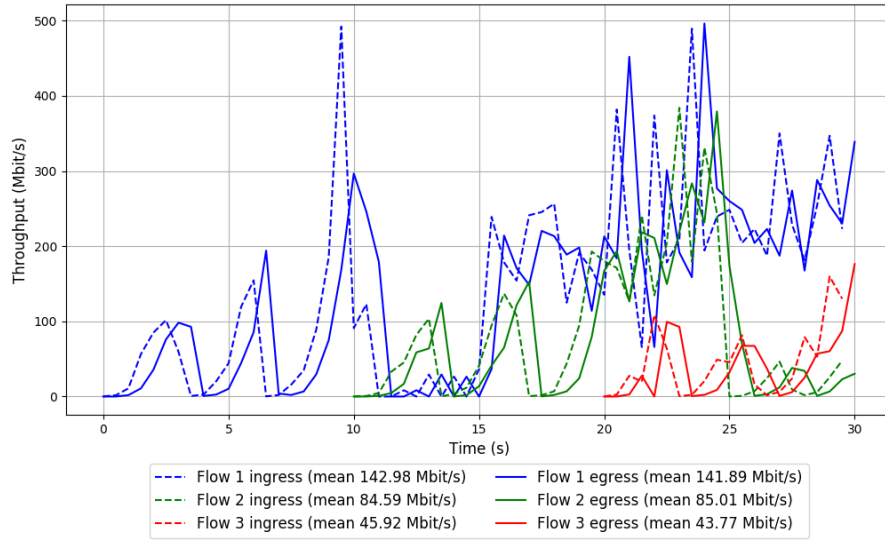


Run 3: Statistics of Verus

Start at: 2019-10-03 00:44:11  
End at: 2019-10-03 00:44:41  
Local clock offset: -0.255 ms  
Remote clock offset: -0.054 ms

```
# Below is generated by plot.py at 2019-10-03 05:27:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.54 Mbit/s
95th percentile per-packet one-way delay: 197.707 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 141.89 Mbit/s
95th percentile per-packet one-way delay: 196.016 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 85.01 Mbit/s
95th percentile per-packet one-way delay: 195.193 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 43.77 Mbit/s
95th percentile per-packet one-way delay: 231.446 ms
Loss rate: 4.60%
```

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

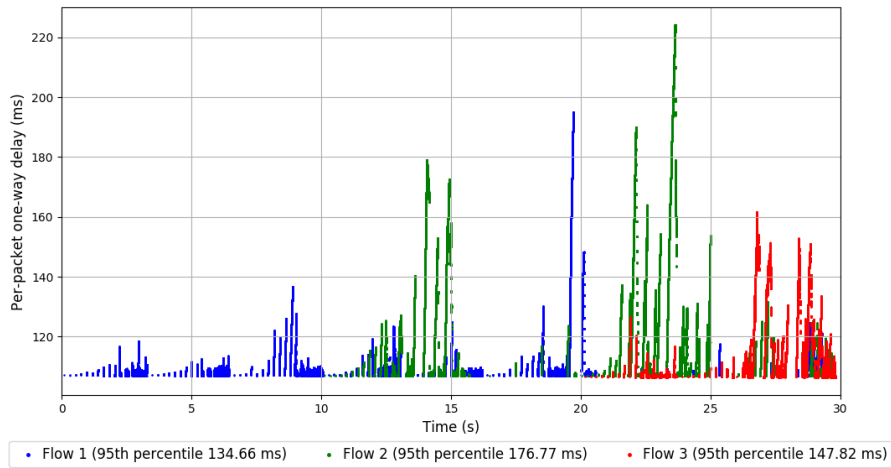
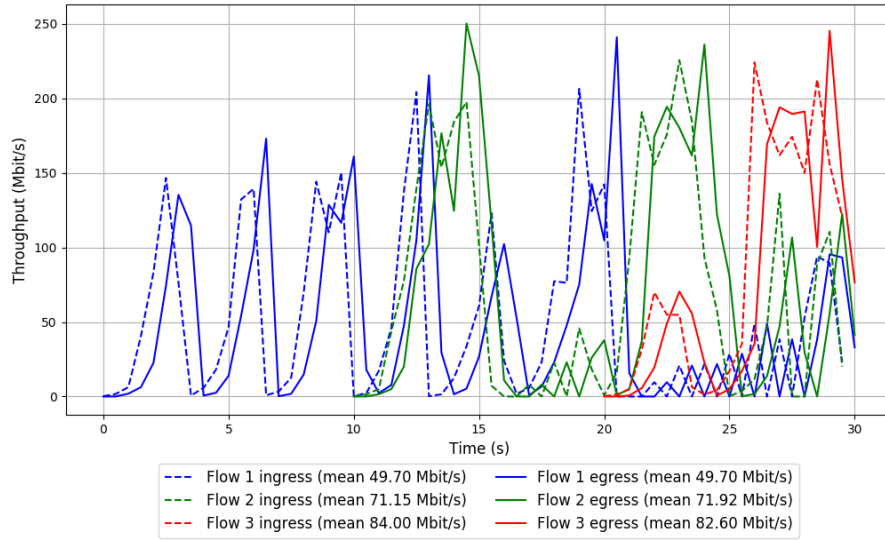


Run 4: Statistics of Verus

Start at: 2019-10-03 01:27:13  
End at: 2019-10-03 01:27:43  
Local clock offset: 0.059 ms  
Remote clock offset: -0.058 ms

```
# Below is generated by plot.py at 2019-10-03 05:27:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.64 Mbit/s
95th percentile per-packet one-way delay: 161.348 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 49.70 Mbit/s
95th percentile per-packet one-way delay: 134.659 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 71.92 Mbit/s
95th percentile per-packet one-way delay: 176.769 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 82.60 Mbit/s
95th percentile per-packet one-way delay: 147.819 ms
Loss rate: 4.30%
```

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



Run 5: Statistics of Verus

Start at: 2019-10-03 02:09:47

End at: 2019-10-03 02:10:17

Local clock offset: 0.016 ms

Remote clock offset: 0.306 ms

# Below is generated by plot.py at 2019-10-03 05:27:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 109.51 Mbit/s

95th percentile per-packet one-way delay: 172.841 ms

Loss rate: 0.71%

-- Flow 1:

Average throughput: 42.61 Mbit/s

95th percentile per-packet one-way delay: 153.839 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 82.04 Mbit/s

95th percentile per-packet one-way delay: 192.298 ms

Loss rate: 1.42%

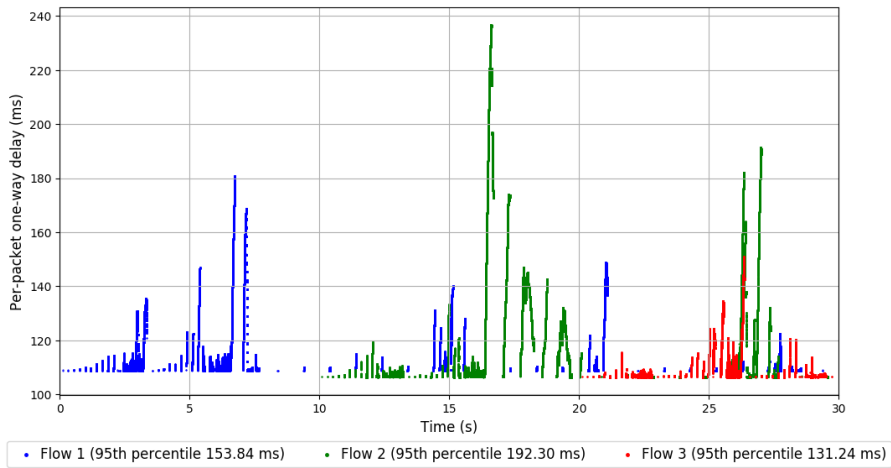
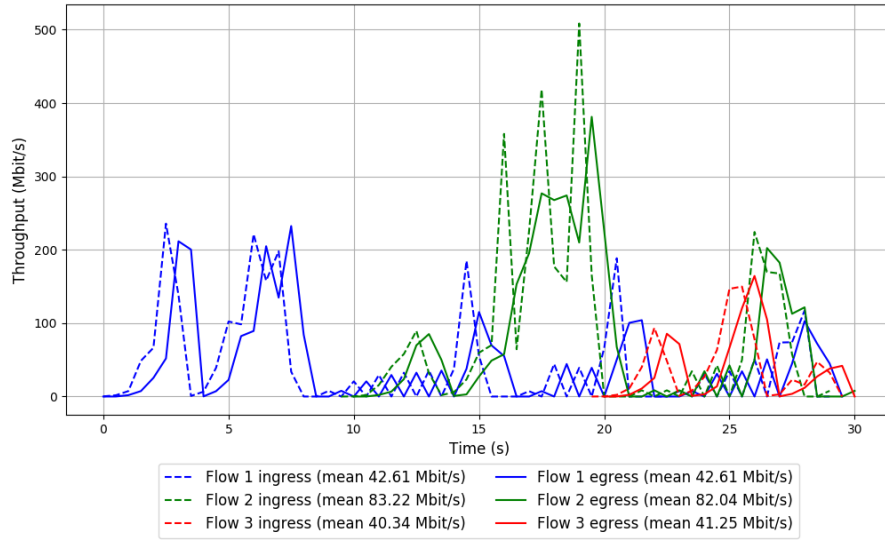
-- Flow 3:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 131.242 ms

Loss rate: 0.02%

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





Run 1: Statistics of PCC-Vivace

Start at: 2019-10-02 23:13:00  
End at: 2019-10-02 23:13:30  
Local clock offset: 0.159 ms  
Remote clock offset: -0.009 ms

# Below is generated by plot.py at 2019-10-03 05:29:05

# Datalink statistics

-- Total of 3 flows:

Average throughput: 462.31 Mbit/s  
95th percentile per-packet one-way delay: 250.248 ms  
Loss rate: 2.25%

-- Flow 1:

Average throughput: 289.85 Mbit/s  
95th percentile per-packet one-way delay: 147.311 ms  
Loss rate: 1.71%

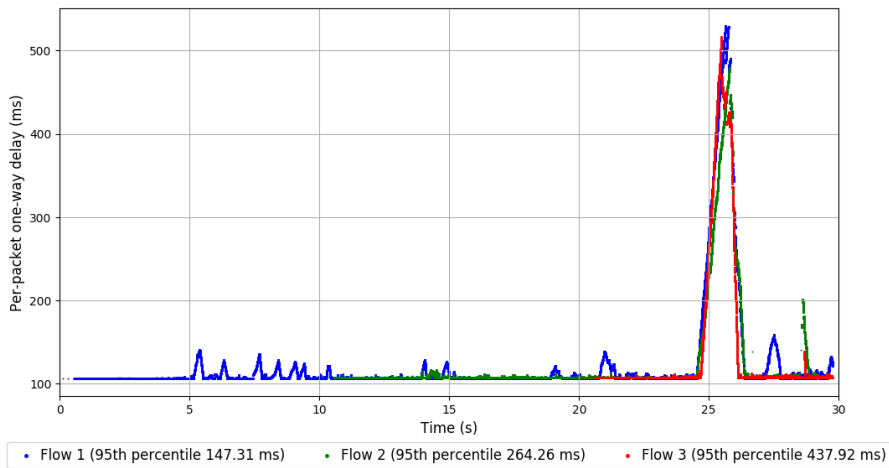
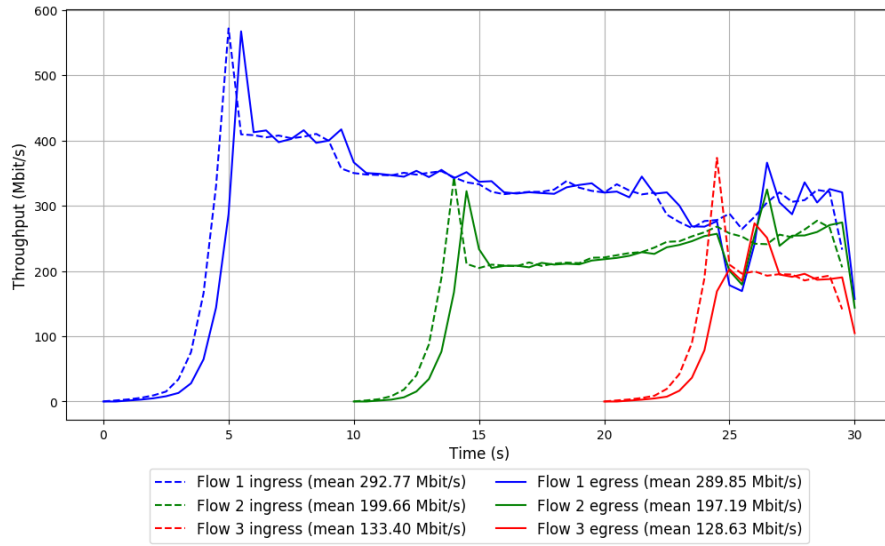
-- Flow 2:

Average throughput: 197.19 Mbit/s  
95th percentile per-packet one-way delay: 264.264 ms  
Loss rate: 2.30%

-- Flow 3:

Average throughput: 128.63 Mbit/s  
95th percentile per-packet one-way delay: 437.920 ms  
Loss rate: 5.74%

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



Run 2: Statistics of PCC-Vivace

Start at: 2019-10-02 23:55:36

End at: 2019-10-02 23:56:06

Local clock offset: -0.251 ms

Remote clock offset: 0.004 ms

# Below is generated by plot.py at 2019-10-03 05:29:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 371.80 Mbit/s

95th percentile per-packet one-way delay: 131.572 ms

Loss rate: 1.65%

-- Flow 1:

Average throughput: 221.85 Mbit/s

95th percentile per-packet one-way delay: 148.382 ms

Loss rate: 1.61%

-- Flow 2:

Average throughput: 191.41 Mbit/s

95th percentile per-packet one-way delay: 136.291 ms

Loss rate: 1.41%

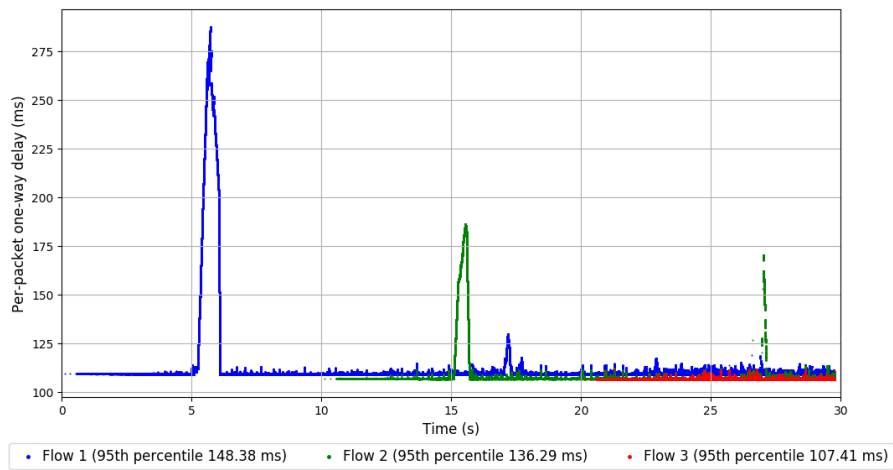
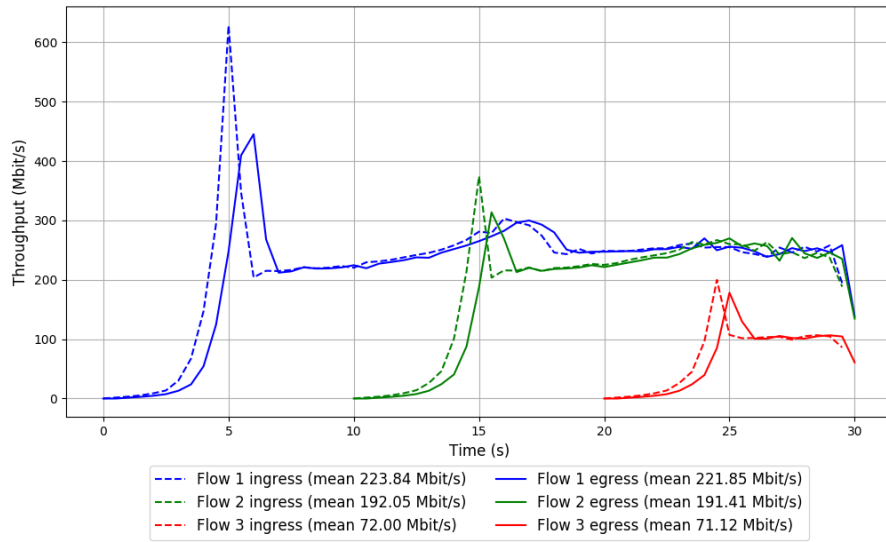
-- Flow 3:

Average throughput: 71.12 Mbit/s

95th percentile per-packet one-way delay: 107.408 ms

Loss rate: 3.34%

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

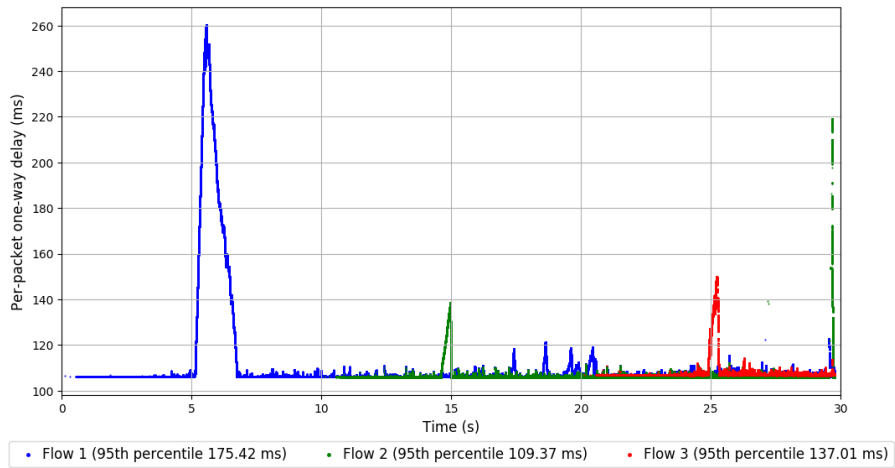
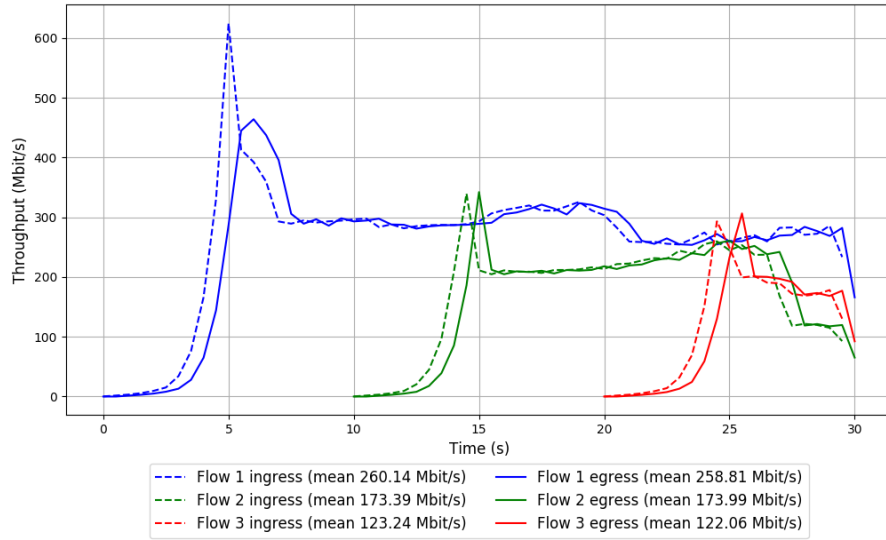


Run 3: Statistics of PCC-Vivace

Start at: 2019-10-03 00:38:29  
End at: 2019-10-03 00:38:59  
Local clock offset: -0.224 ms  
Remote clock offset: -0.078 ms

```
# Below is generated by plot.py at 2019-10-03 05:29:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.78 Mbit/s
95th percentile per-packet one-way delay: 141.768 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 258.81 Mbit/s
95th percentile per-packet one-way delay: 175.417 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 173.99 Mbit/s
95th percentile per-packet one-way delay: 109.374 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 122.06 Mbit/s
95th percentile per-packet one-way delay: 137.012 ms
Loss rate: 3.11%
```

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

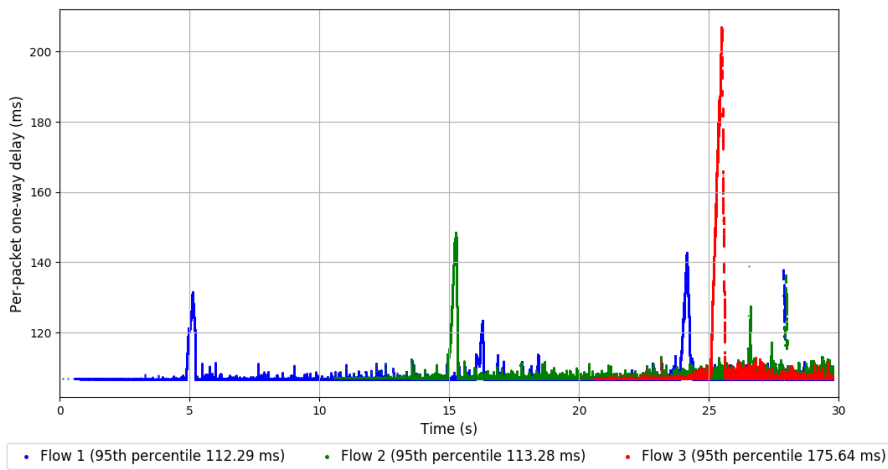
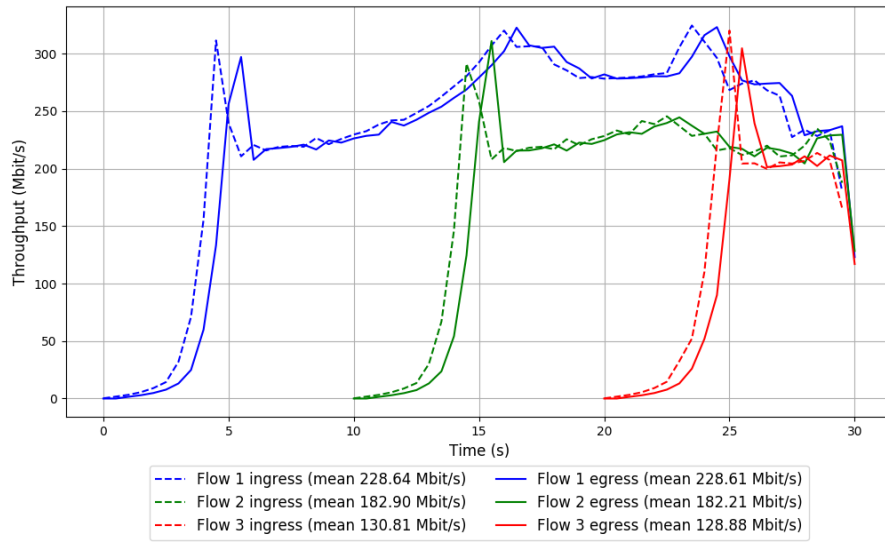


Run 4: Statistics of PCC-Vivace

Start at: 2019-10-03 01:21:33  
End at: 2019-10-03 01:22:03  
Local clock offset: -0.122 ms  
Remote clock offset: -0.068 ms

```
# Below is generated by plot.py at 2019-10-03 05:29:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 391.29 Mbit/s
95th percentile per-packet one-way delay: 115.171 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 228.61 Mbit/s
95th percentile per-packet one-way delay: 112.292 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 182.21 Mbit/s
95th percentile per-packet one-way delay: 113.285 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 128.88 Mbit/s
95th percentile per-packet one-way delay: 175.644 ms
Loss rate: 3.63%
```

Run 4: Report of PCC-Vivace — Data Link



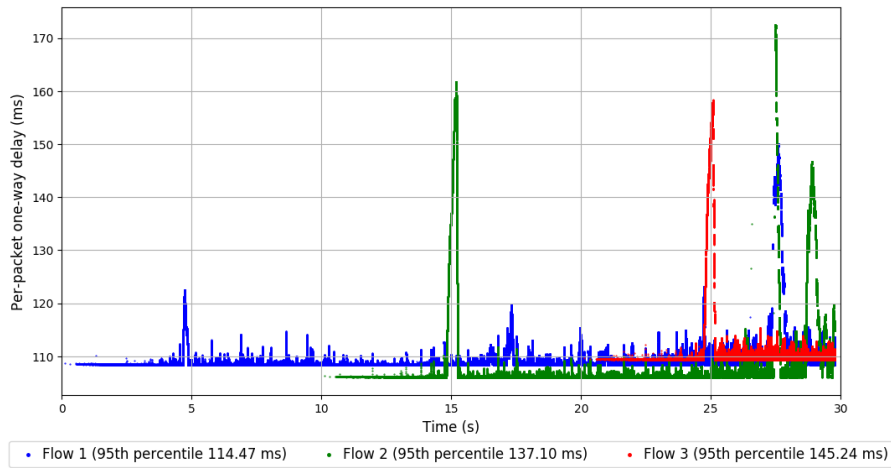
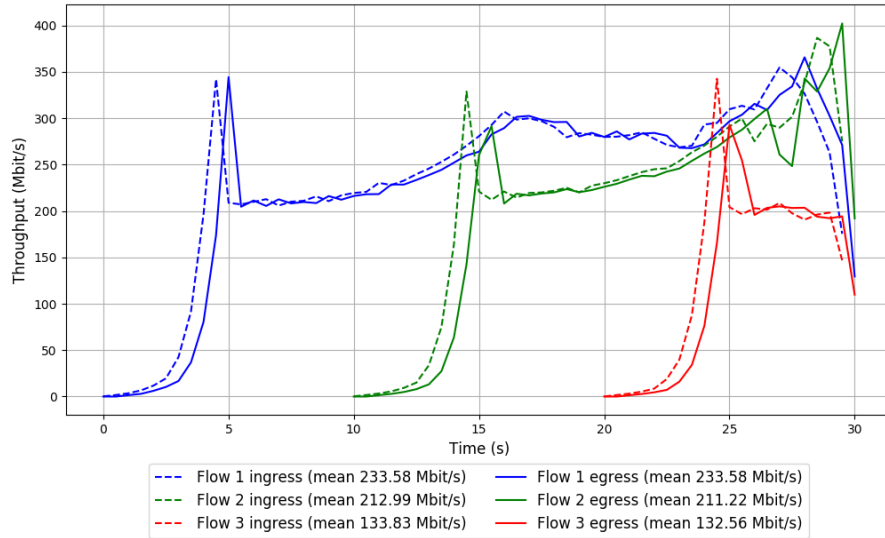


Run 5: Statistics of PCC-Vivace

Start at: 2019-10-03 02:04:07  
End at: 2019-10-03 02:04:37  
Local clock offset: 0.054 ms  
Remote clock offset: -0.007 ms

```
# Below is generated by plot.py at 2019-10-03 05:29:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 416.61 Mbit/s
95th percentile per-packet one-way delay: 123.291 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 233.58 Mbit/s
95th percentile per-packet one-way delay: 114.473 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 211.22 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 1.90%
-- Flow 3:
Average throughput: 132.56 Mbit/s
95th percentile per-packet one-way delay: 145.237 ms
Loss rate: 3.13%
```

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-10-02 23:04:31

End at: 2019-10-02 23:05:01

Local clock offset: 0.378 ms

Remote clock offset: 0.056 ms

# Below is generated by plot.py at 2019-10-03 05:29:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 110.087 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.08 Mbit/s

95th percentile per-packet one-way delay: 110.142 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 108.288 ms

Loss rate: 0.00%

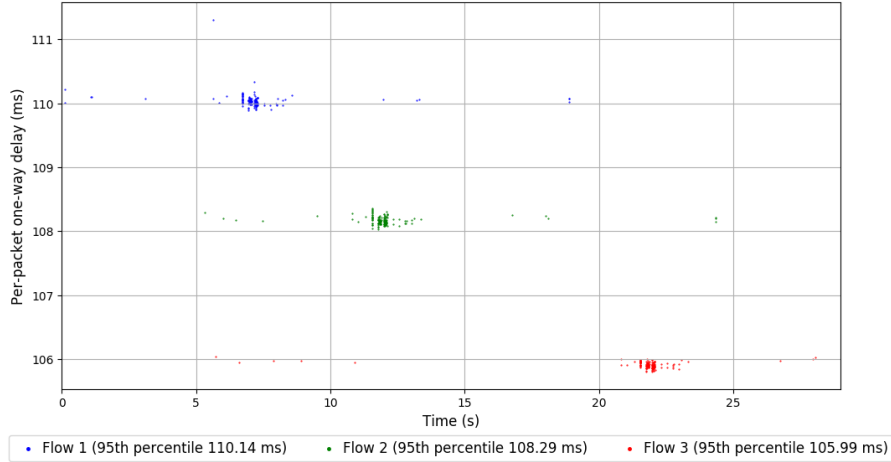
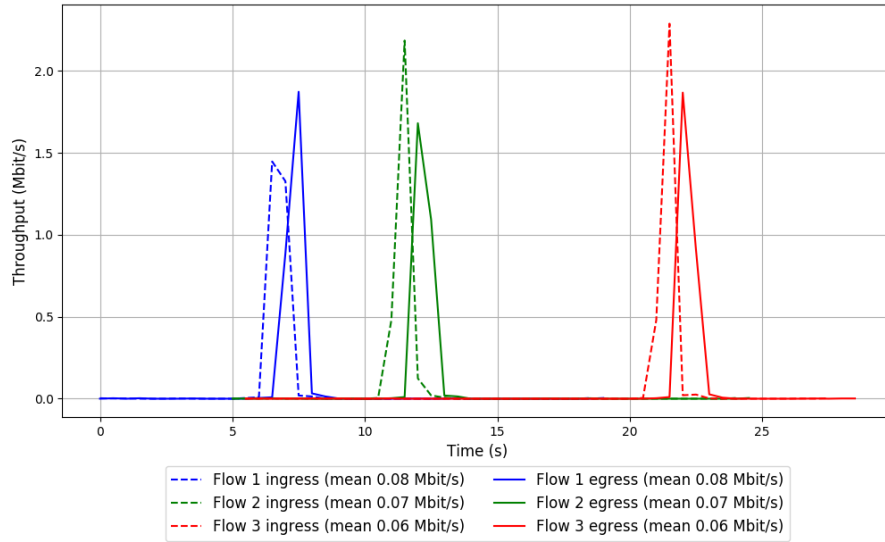
-- Flow 3:

Average throughput: 0.06 Mbit/s

95th percentile per-packet one-way delay: 105.990 ms

Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2019-10-02 23:47:12

End at: 2019-10-02 23:47:42

Local clock offset: 0.135 ms

Remote clock offset: 0.023 ms

# Below is generated by plot.py at 2019-10-03 05:29:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 112.681 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 107.387 ms

Loss rate: 0.05%

-- Flow 2:

Average throughput: 0.07 Mbit/s

95th percentile per-packet one-way delay: 112.729 ms

Loss rate: 0.00%

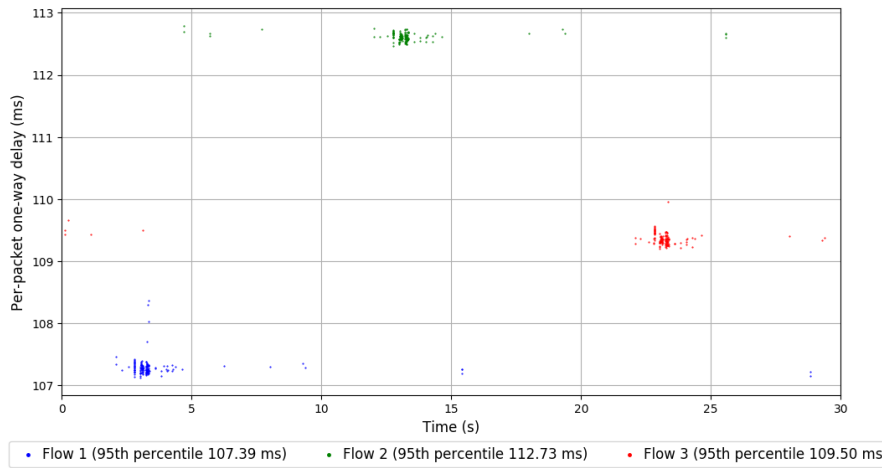
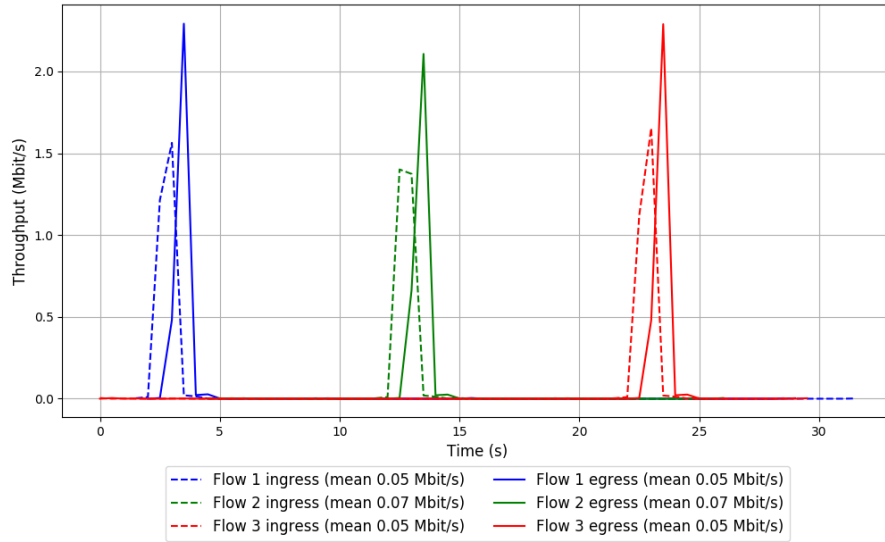
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 109.505 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

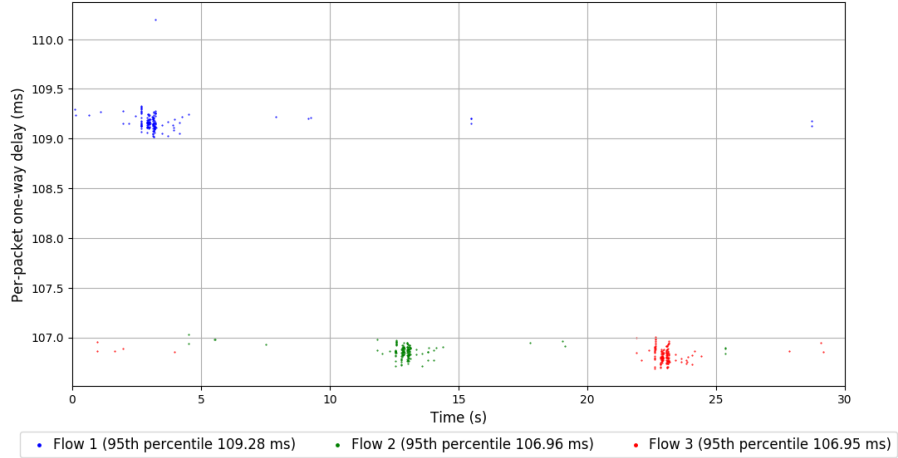
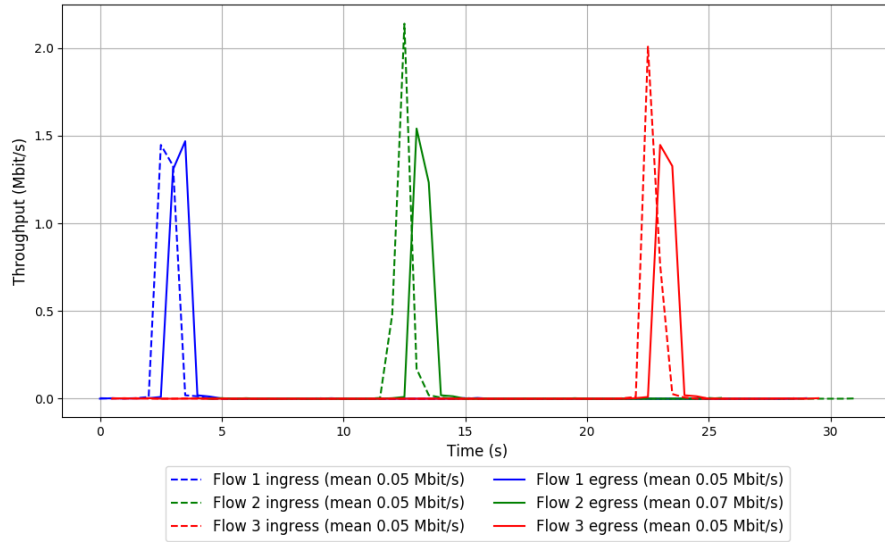


Run 3: Statistics of WebRTC media

Start at: 2019-10-03 00:30:03  
End at: 2019-10-03 00:30:33  
Local clock offset: -0.121 ms  
Remote clock offset: -0.044 ms

```
# Below is generated by plot.py at 2019-10-03 05:29:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 109.241 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.282 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 106.958 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 106.947 ms
Loss rate: 0.00%
```

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



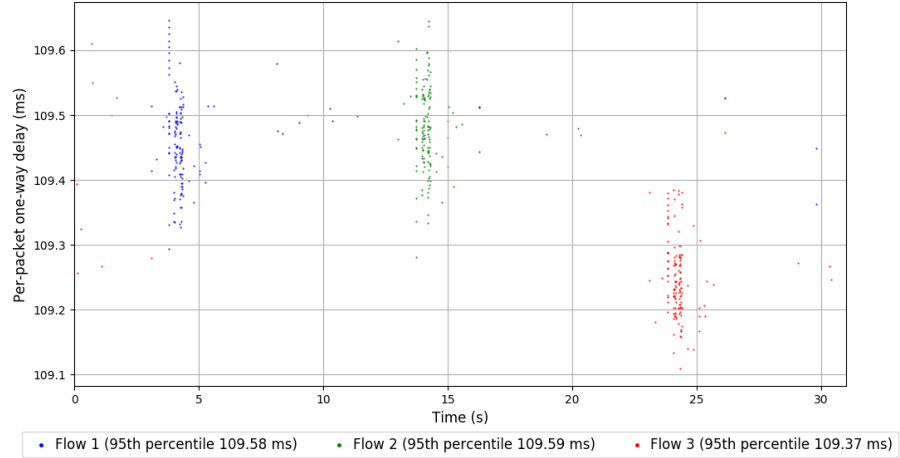
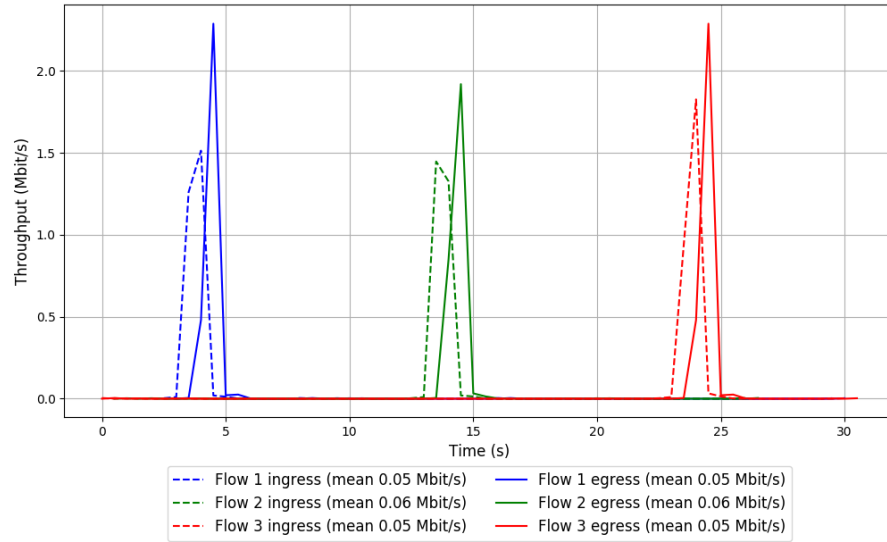


Run 4: Statistics of WebRTC media

Start at: 2019-10-03 01:13:09  
End at: 2019-10-03 01:13:39  
Local clock offset: -0.061 ms  
Remote clock offset: -0.049 ms

```
# Below is generated by plot.py at 2019-10-03 05:29:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.569 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.579 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 109.588 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 109.371 ms
Loss rate: 0.00%
```

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



Run 5: Statistics of WebRTC media

Start at: 2019-10-03 01:55:46  
End at: 2019-10-03 01:56:16  
Local clock offset: -0.109 ms  
Remote clock offset: -0.071 ms

```
# Below is generated by plot.py at 2019-10-03 05:29:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 109.482 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 108.504 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 106.934 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 109.529 ms
Loss rate: 0.00%
```

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

