

## Pantheon Report

Generated at 2019-07-12 18:50:25 (UTC).

Data path: Colombia on **p4p1** (*remote*) → AWS Brazil 2 on **ens5** (*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 **gps.ntp.br** and have been applied to correct the timestamps in logs.

### System info:

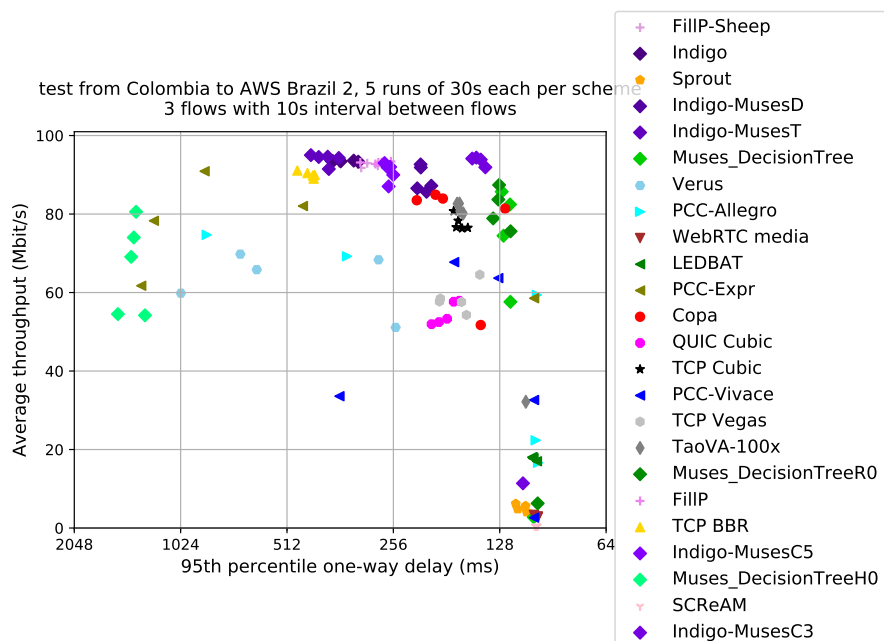
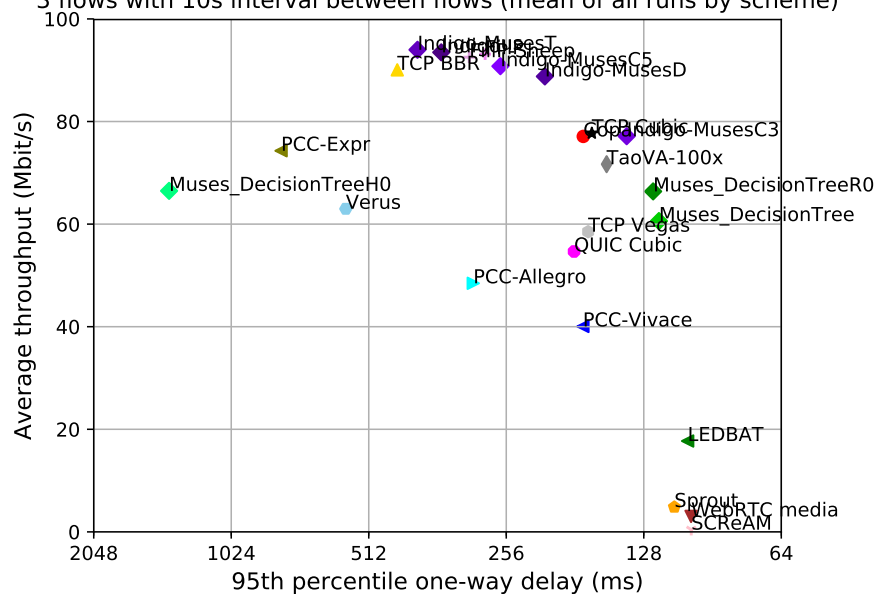
```
Linux 4.15.0-1041-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

```
branch: muses @ 2076e1149a241f3edb4365d686df32342bf9561f
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 @ 8bb93ffff2b107204a92d8b72449fc0c55e15f00
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
```

100					
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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	54.47	39.22	29.34	427.44	461.81	468.39	2.75	5.49	7.59
Copa	5	49.13	29.58	25.29	168.65	137.16	151.41	0.40	0.85	2.02
TCP Cubic	5	44.10	34.34	32.87	185.00	157.89	150.41	0.48	1.01	2.05
FillP	5	57.45	39.04	29.66	296.93	255.35	278.01	1.29	2.88	4.25
FillP-Sheep	5	56.81	39.10	29.98	307.98	311.96	315.82	0.93	2.10	3.23
Indigo	5	58.32	38.70	28.55	367.78	152.54	133.78	5.49	1.39	2.42
Indigo-MusesC3	5	49.89	32.00	23.91	138.06	132.45	151.94	1.31	1.86	3.12
Indigo-MusesC5	5	57.55	39.02	28.54	260.49	268.28	354.28	2.62	4.64	6.11
Indigo-MusesD	5	51.39	45.67	29.24	172.74	192.32	177.43	2.72	2.14	4.53
Indigo-MusesT	5	59.81	39.75	31.25	333.07	442.04	495.87	5.74	6.15	6.35
LEDBAT	5	11.47	7.62	3.66	102.56	102.65	102.67	1.17	1.78	3.57
Muses_DecisionTree	5	40.16	24.12	14.22	120.41	113.72	105.99	0.69	1.13	2.97
Muses_DecisionTreeH0	5	38.07	30.21	26.47	1363.99	1558.81	629.29	15.37	16.08	16.16
Muses_DecisionTreeR0	5	43.06	26.31	18.70	122.06	120.87	127.79	0.44	1.21	2.77
PCC-Allegro	5	36.66	11.09	13.66	309.52	104.35	222.01	1.50	0.95	2.30
PCC-Expr	5	47.68	30.38	19.80	801.73	408.85	188.46	9.11	2.82	1.97
QUIC Cubic	5	32.90	24.71	16.41	143.34	195.13	351.37	0.61	1.16	3.44
SCReAM	5	0.22	0.22	0.22	100.70	100.61	100.71	0.54	0.95	1.85
Sprout	5	2.59	2.44	1.96	109.05	108.90	110.58	0.71	0.90	2.09
TaoVA-100x	5	42.00	33.19	23.21	149.72	161.11	151.28	0.45	0.80	1.86
TCP Vegas	5	35.22	26.72	16.91	190.51	132.23	177.03	0.45	0.89	2.25
Verus	5	40.00	25.67	17.97	396.87	774.54	221.38	1.04	2.07	2.35
PCC-Vivace	5	25.41	14.35	15.69	122.92	108.61	172.66	0.73	1.01	2.14
WebRTC media	5	1.79	0.91	0.33	100.72	100.94	100.78	0.74	0.76	2.44

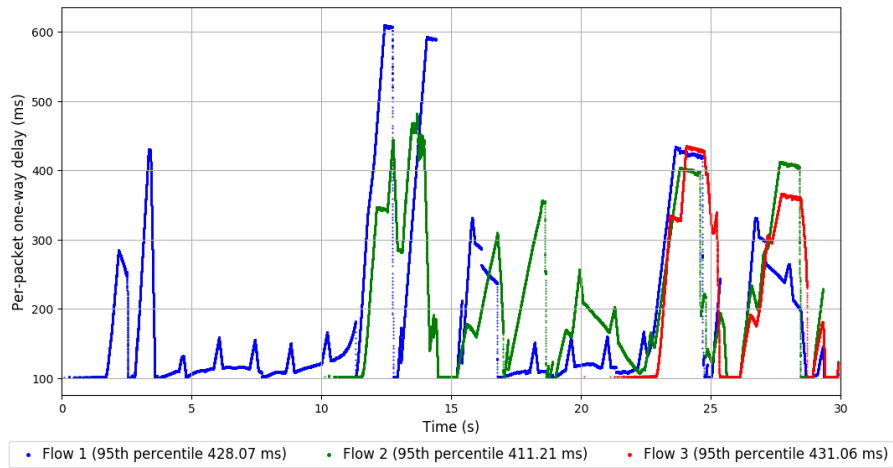
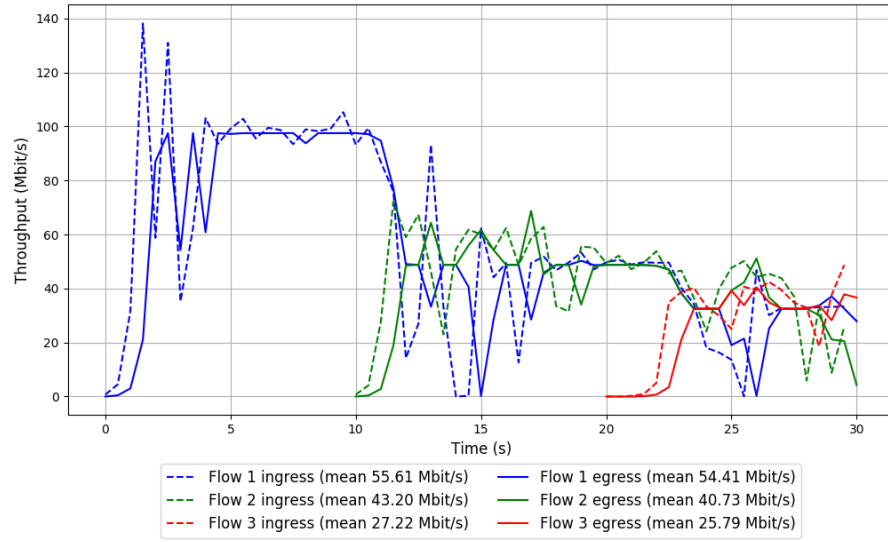


Run 1: Statistics of TCP BBR

Start at: 2019-07-12 16:09:44  
End at: 2019-07-12 16:10:14  
Local clock offset: -3.058 ms  
Remote clock offset: -14.044 ms

# Below is generated by plot.py at 2019-07-12 18:38:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.94 Mbit/s  
95th percentile per-packet one-way delay: 427.526 ms  
Loss rate: 4.30%  
-- Flow 1:  
Average throughput: 54.41 Mbit/s  
95th percentile per-packet one-way delay: 428.069 ms  
Loss rate: 2.73%  
-- Flow 2:  
Average throughput: 40.73 Mbit/s  
95th percentile per-packet one-way delay: 411.213 ms  
Loss rate: 6.54%  
-- Flow 3:  
Average throughput: 25.79 Mbit/s  
95th percentile per-packet one-way delay: 431.065 ms  
Loss rate: 6.89%

# Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-07-12 16:41:22

End at: 2019-07-12 16:41:52

Local clock offset: 0.645 ms

Remote clock offset: -7.04 ms

# Below is generated by plot.py at 2019-07-12 18:38:39

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.08 Mbit/s

95th percentile per-packet one-way delay: 478.695 ms

Loss rate: 3.70%

-- Flow 1:

Average throughput: 55.33 Mbit/s

95th percentile per-packet one-way delay: 427.870 ms

Loss rate: 2.72%

-- Flow 2:

Average throughput: 39.22 Mbit/s

95th percentile per-packet one-way delay: 543.489 ms

Loss rate: 4.23%

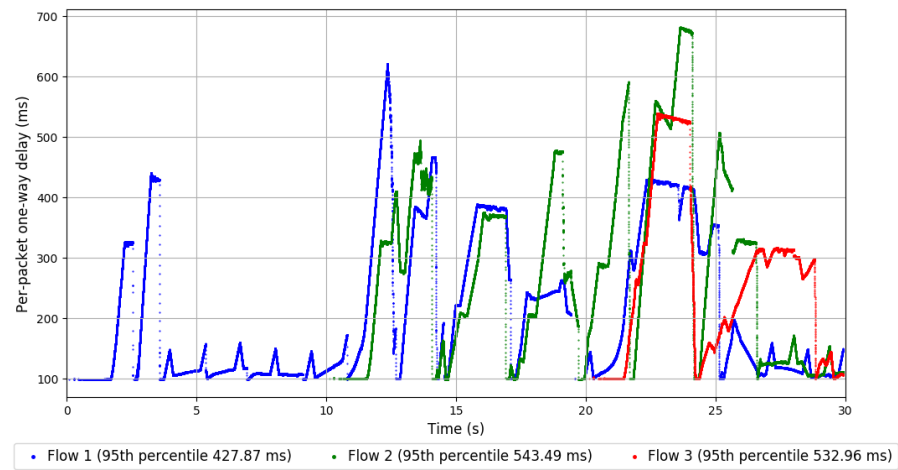
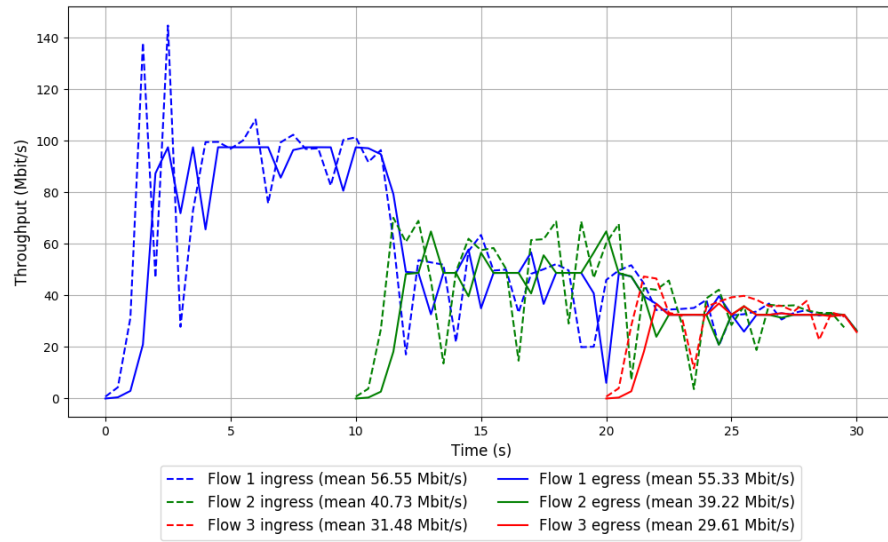
-- Flow 3:

Average throughput: 29.61 Mbit/s

95th percentile per-packet one-way delay: 532.961 ms

Loss rate: 7.59%

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

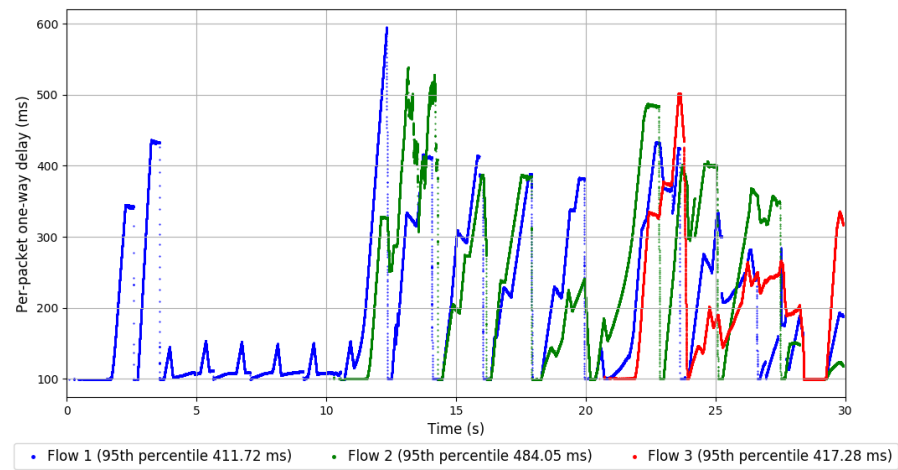
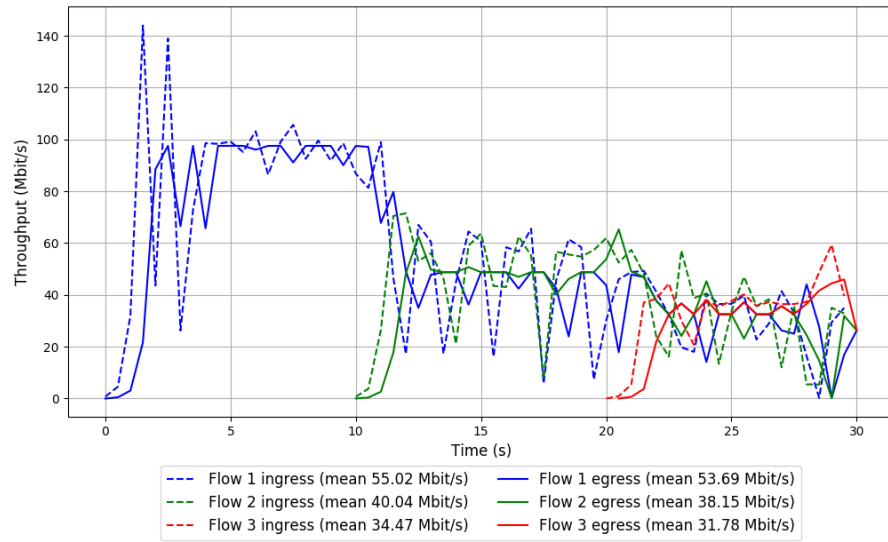


Run 3: Statistics of TCP BBR

Start at: 2019-07-12 17:12:35  
End at: 2019-07-12 17:13:05  
Local clock offset: -3.334 ms  
Remote clock offset: -4.786 ms

# Below is generated by plot.py at 2019-07-12 18:38:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.03 Mbit/s  
95th percentile per-packet one-way delay: 430.493 ms  
Loss rate: 4.49%  
-- Flow 1:  
Average throughput: 53.69 Mbit/s  
95th percentile per-packet one-way delay: 411.718 ms  
Loss rate: 2.99%  
-- Flow 2:  
Average throughput: 38.15 Mbit/s  
95th percentile per-packet one-way delay: 484.047 ms  
Loss rate: 5.55%  
-- Flow 3:  
Average throughput: 31.78 Mbit/s  
95th percentile per-packet one-way delay: 417.284 ms  
Loss rate: 9.48%

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

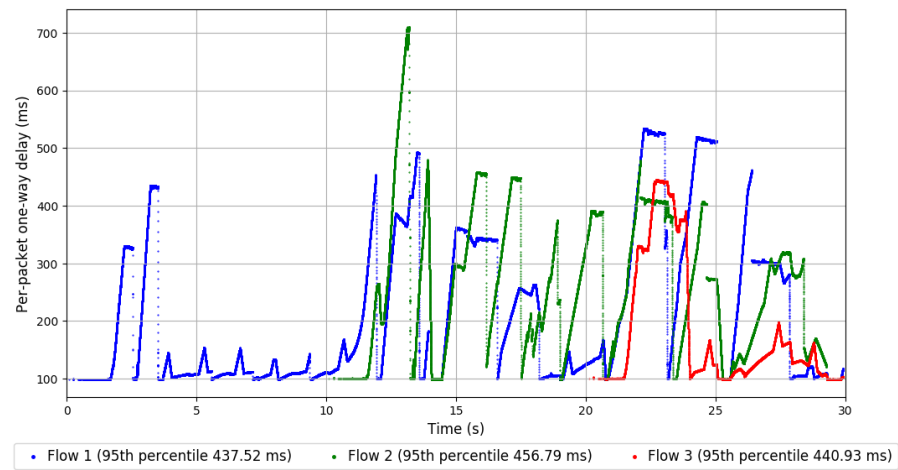
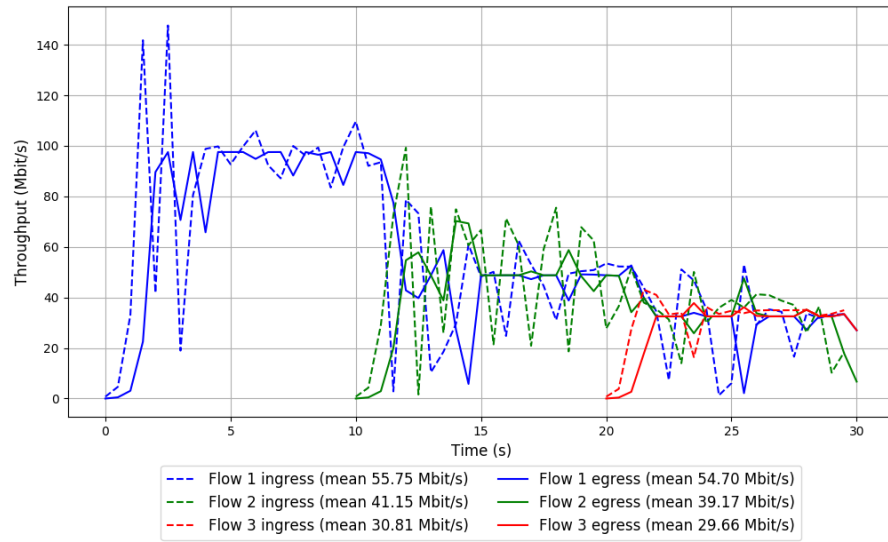


Run 4: Statistics of TCP BBR

Start at: 2019-07-12 17:43:42  
End at: 2019-07-12 17:44:12  
Local clock offset: -2.715 ms  
Remote clock offset: -2.022 ms

# Below is generated by plot.py at 2019-07-12 18:38:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.46 Mbit/s  
95th percentile per-packet one-way delay: 448.052 ms  
Loss rate: 3.70%  
-- Flow 1:  
Average throughput: 54.70 Mbit/s  
95th percentile per-packet one-way delay: 437.519 ms  
Loss rate: 2.45%  
-- Flow 2:  
Average throughput: 39.17 Mbit/s  
95th percentile per-packet one-way delay: 456.786 ms  
Loss rate: 5.63%  
-- Flow 3:  
Average throughput: 29.66 Mbit/s  
95th percentile per-packet one-way delay: 440.931 ms  
Loss rate: 5.40%

# Run 4: Report of TCP BBR — Data Link



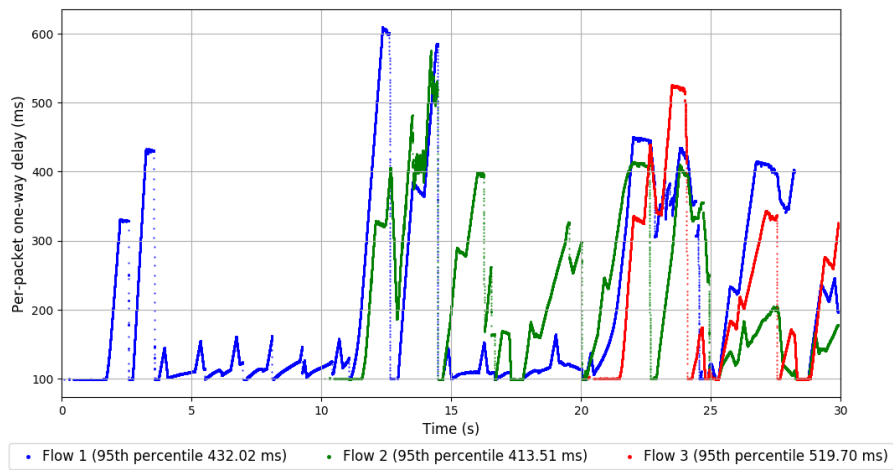
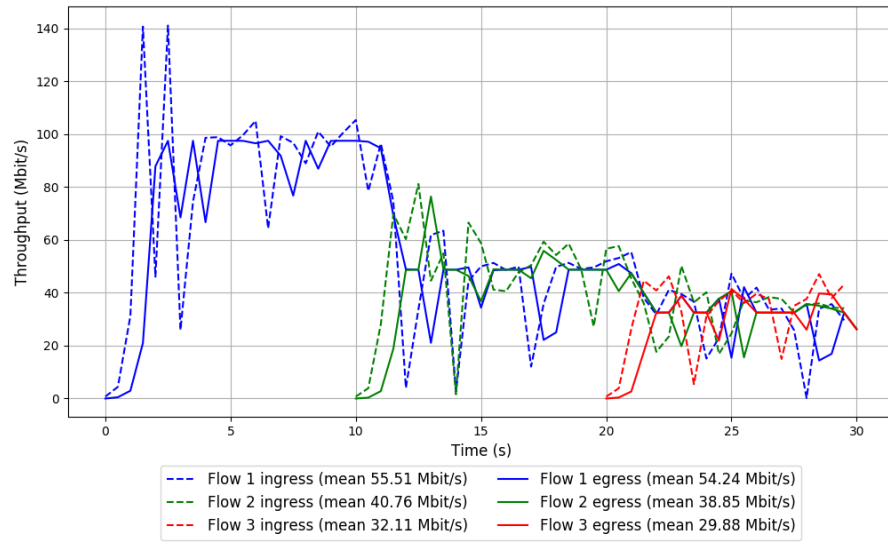


Run 5: Statistics of TCP BBR

Start at: 2019-07-12 18:15:44  
End at: 2019-07-12 18:16:14  
Local clock offset: -3.262 ms  
Remote clock offset: -0.273 ms

# Below is generated by plot.py at 2019-07-12 18:38:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.84 Mbit/s  
95th percentile per-packet one-way delay: 432.224 ms  
Loss rate: 4.27%  
-- Flow 1:  
Average throughput: 54.24 Mbit/s  
95th percentile per-packet one-way delay: 432.016 ms  
Loss rate: 2.85%  
-- Flow 2:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 413.510 ms  
Loss rate: 5.50%  
-- Flow 3:  
Average throughput: 29.88 Mbit/s  
95th percentile per-packet one-way delay: 519.696 ms  
Loss rate: 8.57%

# Run 5: Report of TCP BBR — Data Link

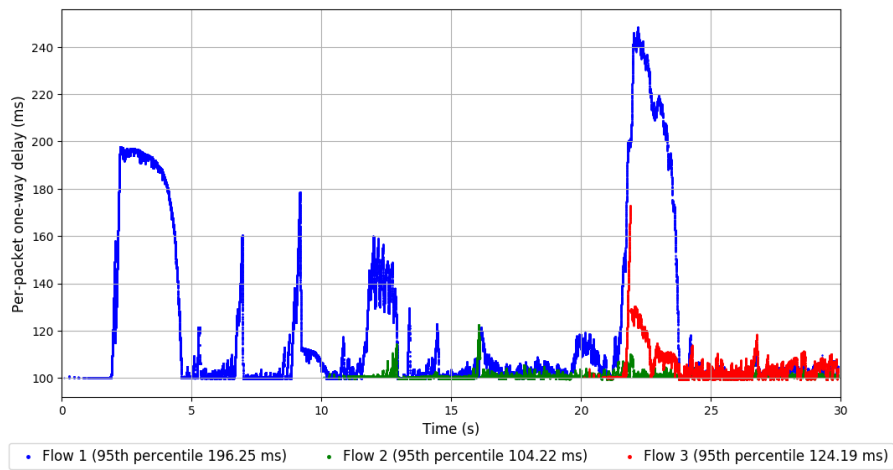
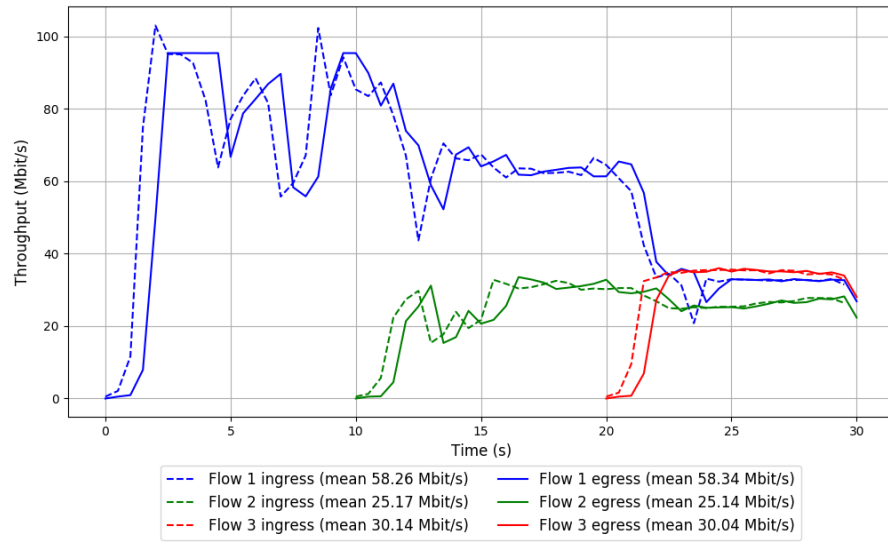


Run 1: Statistics of Copa

Start at: 2019-07-12 15:59:15  
End at: 2019-07-12 15:59:45  
Local clock offset: -7.902 ms  
Remote clock offset: -12.738 ms

# Below is generated by plot.py at 2019-07-12 18:39:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.92 Mbit/s  
95th percentile per-packet one-way delay: 194.503 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 58.34 Mbit/s  
95th percentile per-packet one-way delay: 196.247 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 25.14 Mbit/s  
95th percentile per-packet one-way delay: 104.221 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 124.193 ms  
Loss rate: 2.07%

## Run 1: Report of Copa — Data Link

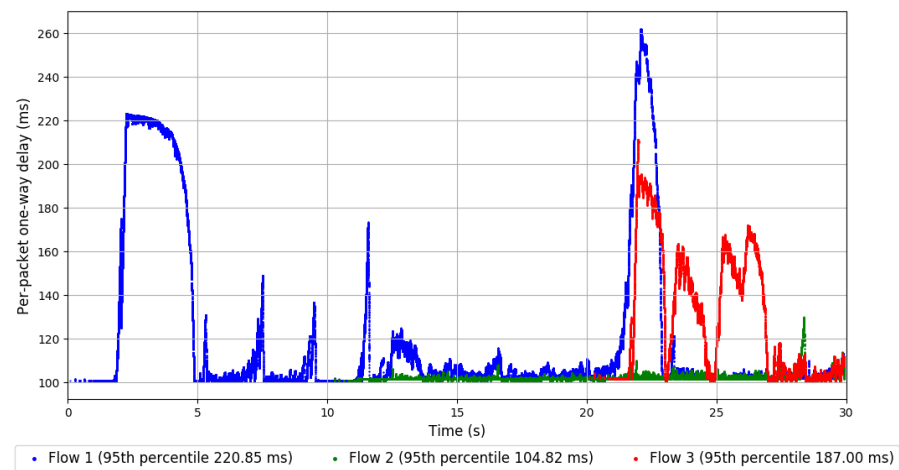
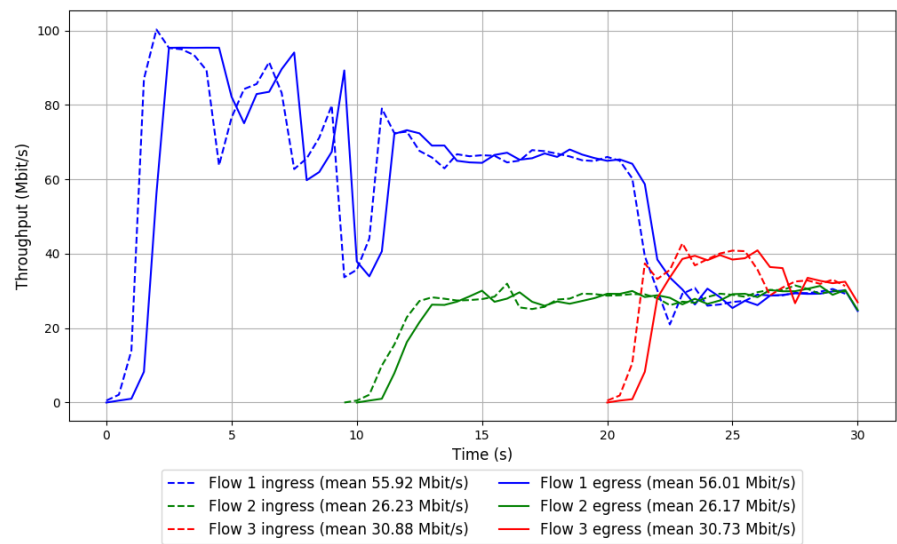


Run 2: Statistics of Copa

Start at: 2019-07-12 16:30:43  
End at: 2019-07-12 16:31:13  
Local clock offset: -0.181 ms  
Remote clock offset: -12.348 ms

# Below is generated by plot.py at 2019-07-12 18:39:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.52 Mbit/s  
95th percentile per-packet one-way delay: 219.803 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 56.01 Mbit/s  
95th percentile per-packet one-way delay: 220.854 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 26.17 Mbit/s  
95th percentile per-packet one-way delay: 104.820 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 30.73 Mbit/s  
95th percentile per-packet one-way delay: 187.002 ms  
Loss rate: 2.20%

Run 2: Report of Copa — Data Link

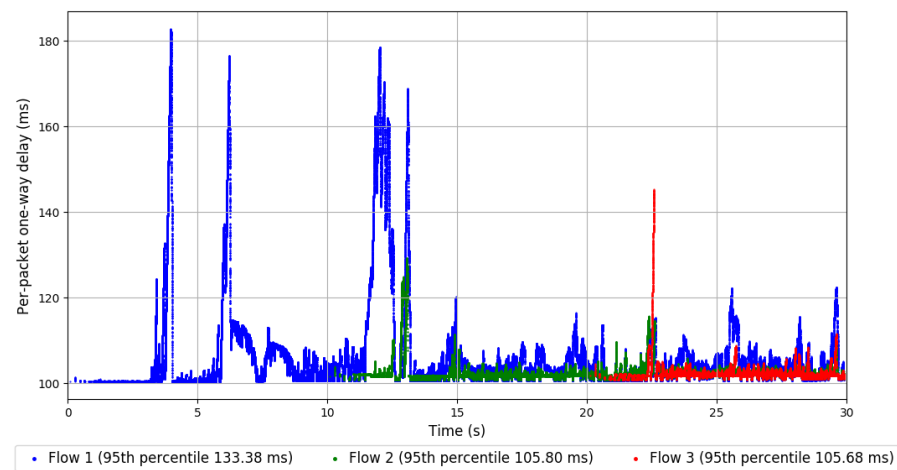
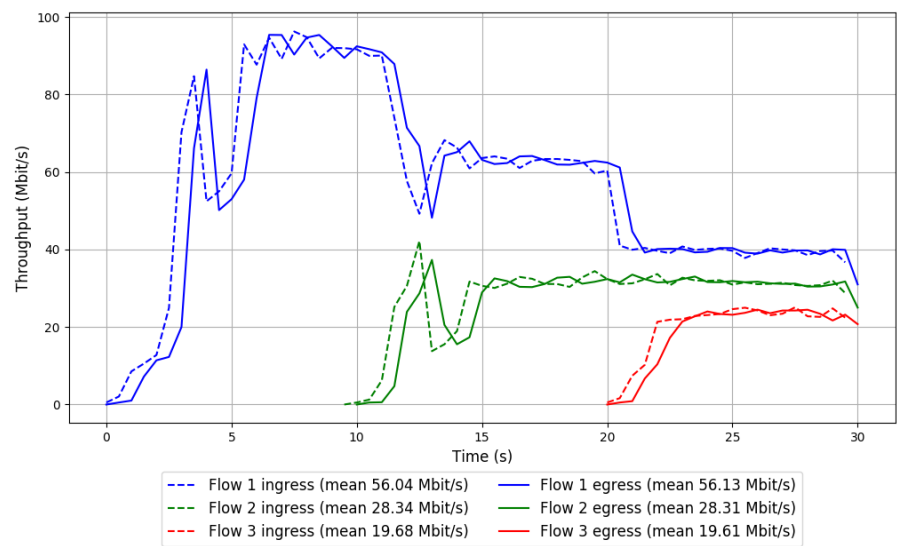


Run 3: Statistics of Copa

Start at: 2019-07-12 17:02:03  
End at: 2019-07-12 17:02:33  
Local clock offset: -0.284 ms  
Remote clock offset: -6.456 ms

# Below is generated by plot.py at 2019-07-12 18:39:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.38 Mbit/s  
95th percentile per-packet one-way delay: 123.600 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 56.13 Mbit/s  
95th percentile per-packet one-way delay: 133.378 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 28.31 Mbit/s  
95th percentile per-packet one-way delay: 105.801 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 19.61 Mbit/s  
95th percentile per-packet one-way delay: 105.677 ms  
Loss rate: 2.12%

Run 3: Report of Copa — Data Link



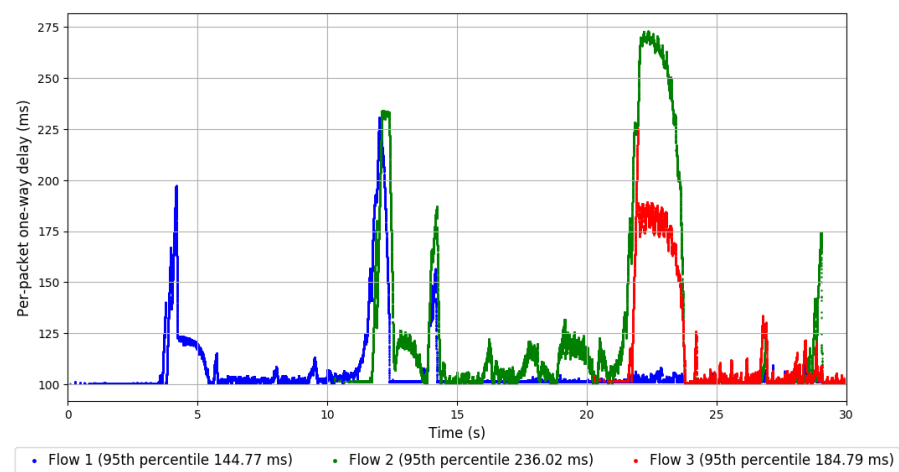
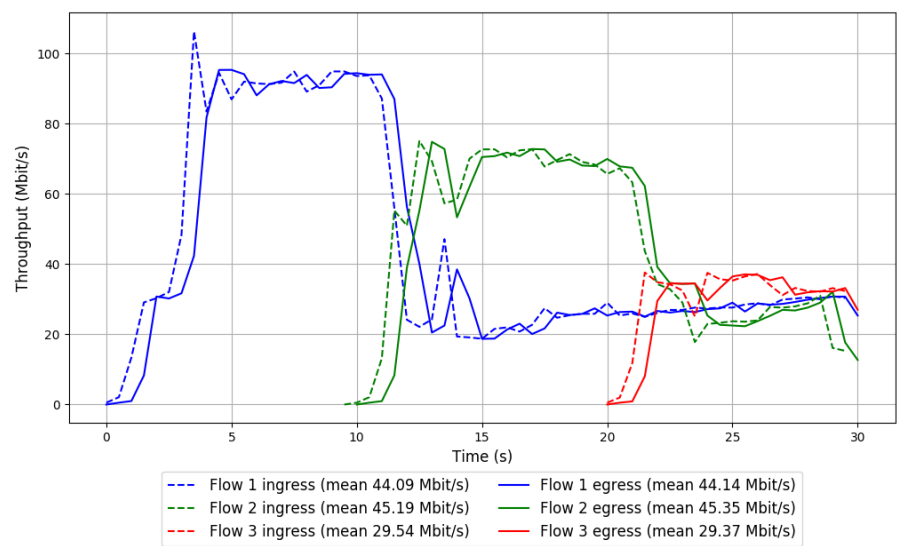


Run 4: Statistics of Copa

Start at: 2019-07-12 17:33:15  
End at: 2019-07-12 17:33:45  
Local clock offset: -4.436 ms  
Remote clock offset: -5.244 ms

# Below is generated by plot.py at 2019-07-12 18:40:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.94 Mbit/s  
95th percentile per-packet one-way delay: 185.414 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 44.14 Mbit/s  
95th percentile per-packet one-way delay: 144.773 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 45.35 Mbit/s  
95th percentile per-packet one-way delay: 236.024 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 29.37 Mbit/s  
95th percentile per-packet one-way delay: 184.786 ms  
Loss rate: 2.34%

Run 4: Report of Copa — Data Link

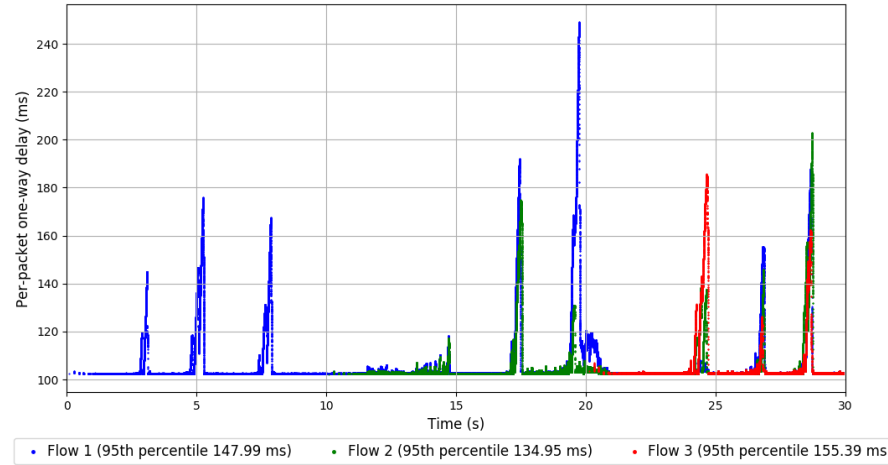
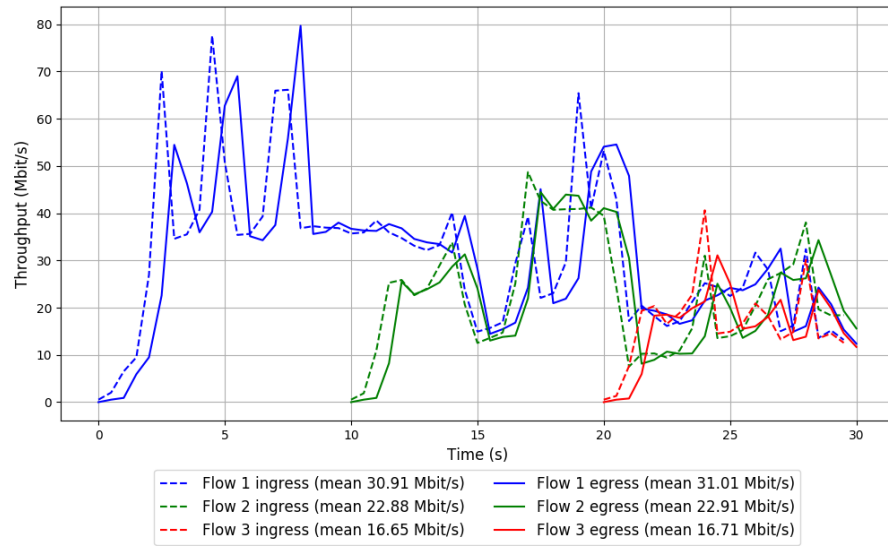


Run 5: Statistics of Copa

Start at: 2019-07-12 18:04:22  
End at: 2019-07-12 18:04:52  
Local clock offset: -2.417 ms  
Remote clock offset: -3.875 ms

# Below is generated by plot.py at 2019-07-12 18:40:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.72 Mbit/s  
95th percentile per-packet one-way delay: 144.869 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 31.01 Mbit/s  
95th percentile per-packet one-way delay: 147.994 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 22.91 Mbit/s  
95th percentile per-packet one-way delay: 134.946 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 16.71 Mbit/s  
95th percentile per-packet one-way delay: 155.393 ms  
Loss rate: 1.39%

## Run 5: Report of Copa — Data Link

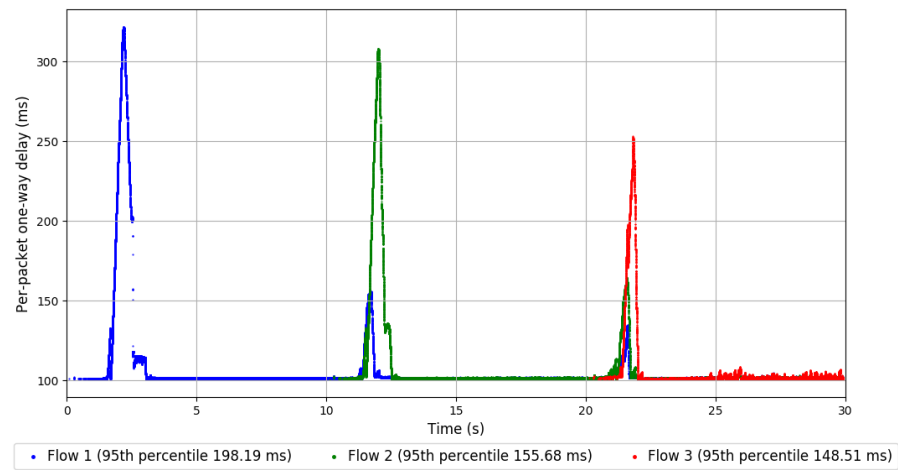
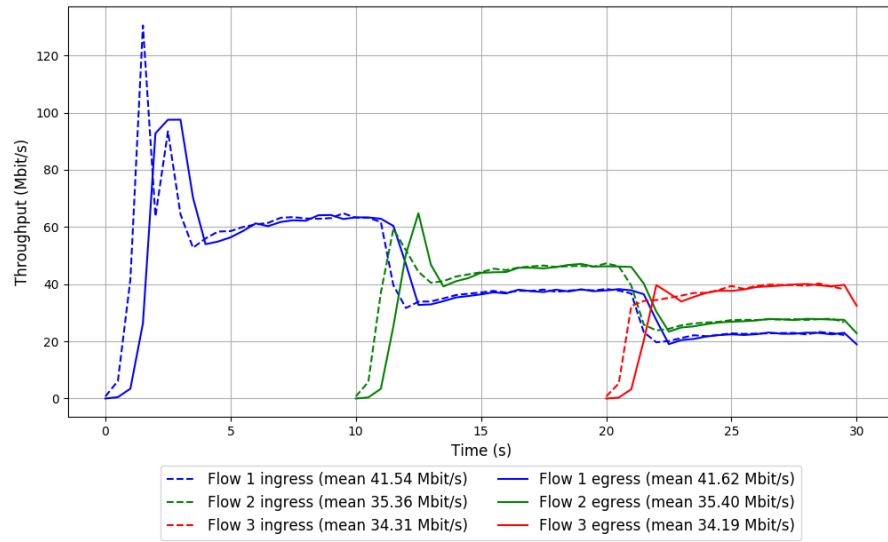


Run 1: Statistics of TCP Cubic

Start at: 2019-07-12 16:07:07  
End at: 2019-07-12 16:07:37  
Local clock offset: -3.746 ms  
Remote clock offset: -13.603 ms

# Below is generated by plot.py at 2019-07-12 18:40:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.35 Mbit/s  
95th percentile per-packet one-way delay: 163.520 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 41.62 Mbit/s  
95th percentile per-packet one-way delay: 198.189 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 35.40 Mbit/s  
95th percentile per-packet one-way delay: 155.676 ms  
Loss rate: 0.75%  
-- Flow 3:  
Average throughput: 34.19 Mbit/s  
95th percentile per-packet one-way delay: 148.510 ms  
Loss rate: 2.07%

# Run 1: Report of TCP Cubic — Data Link

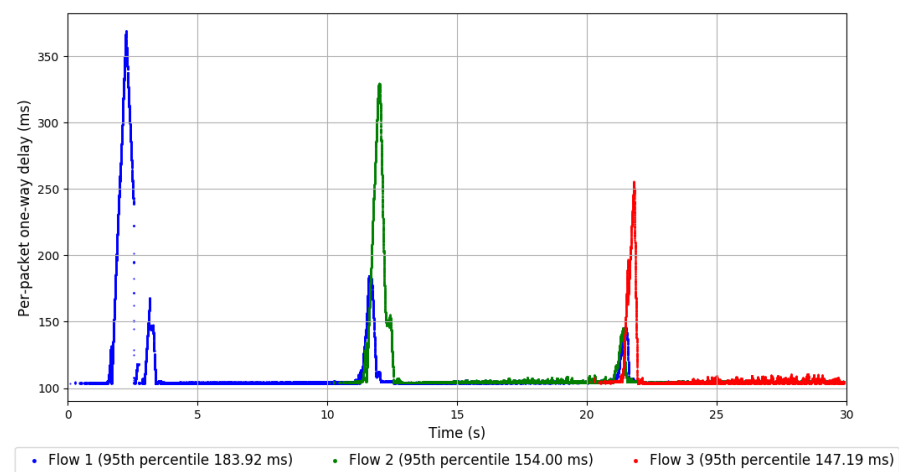
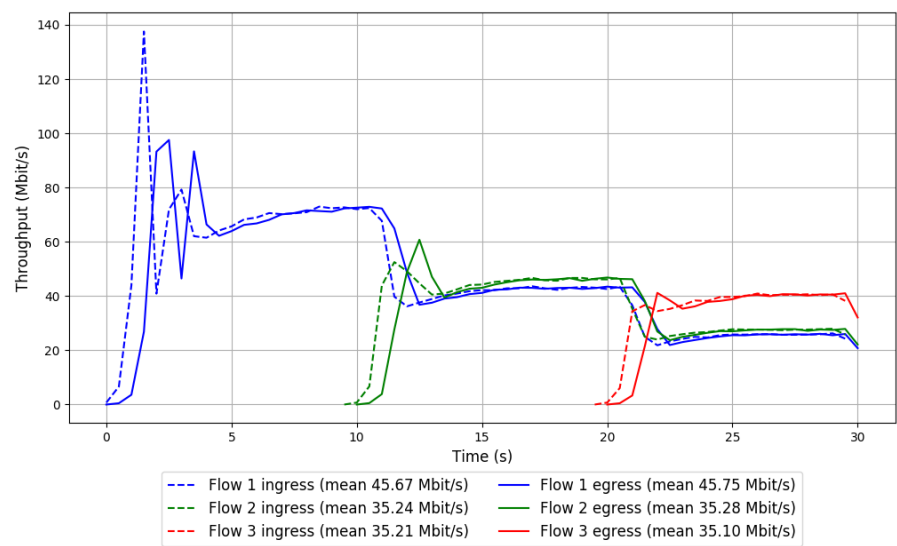


Run 2: Statistics of TCP Cubic

Start at: 2019-07-12 16:38:45  
End at: 2019-07-12 16:39:15  
Local clock offset: 0.216 ms  
Remote clock offset: -12.795 ms

# Below is generated by plot.py at 2019-07-12 18:40:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.74 Mbit/s  
95th percentile per-packet one-way delay: 172.829 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 45.75 Mbit/s  
95th percentile per-packet one-way delay: 183.924 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 35.28 Mbit/s  
95th percentile per-packet one-way delay: 153.995 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 35.10 Mbit/s  
95th percentile per-packet one-way delay: 147.185 ms  
Loss rate: 2.06%

Run 2: Report of TCP Cubic — Data Link





Run 3: Statistics of TCP Cubic

Start at: 2019-07-12 17:09:57

End at: 2019-07-12 17:10:27

Local clock offset: -1.988 ms

Remote clock offset: -6.34 ms

# Below is generated by plot.py at 2019-07-12 18:40:26

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.30 Mbit/s

95th percentile per-packet one-way delay: 167.733 ms

Loss rate: 1.33%

-- Flow 1:

Average throughput: 47.33 Mbit/s

95th percentile per-packet one-way delay: 167.904 ms

Loss rate: 0.79%

-- Flow 2:

Average throughput: 31.30 Mbit/s

95th percentile per-packet one-way delay: 171.433 ms

Loss rate: 2.19%

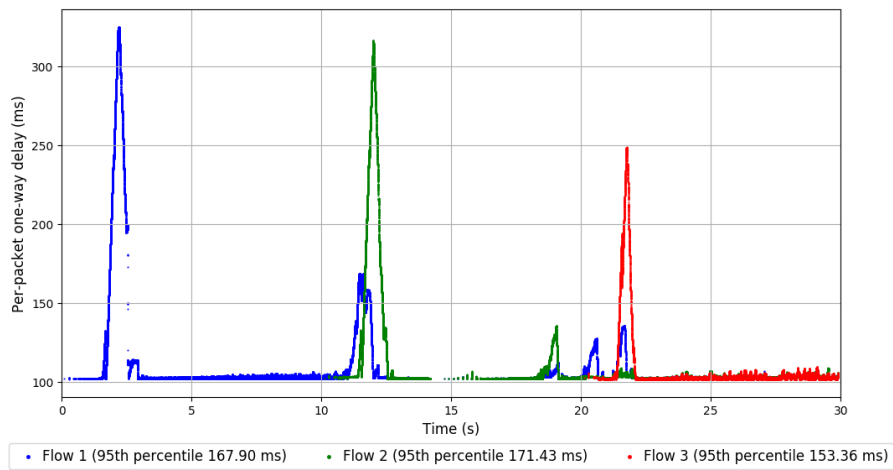
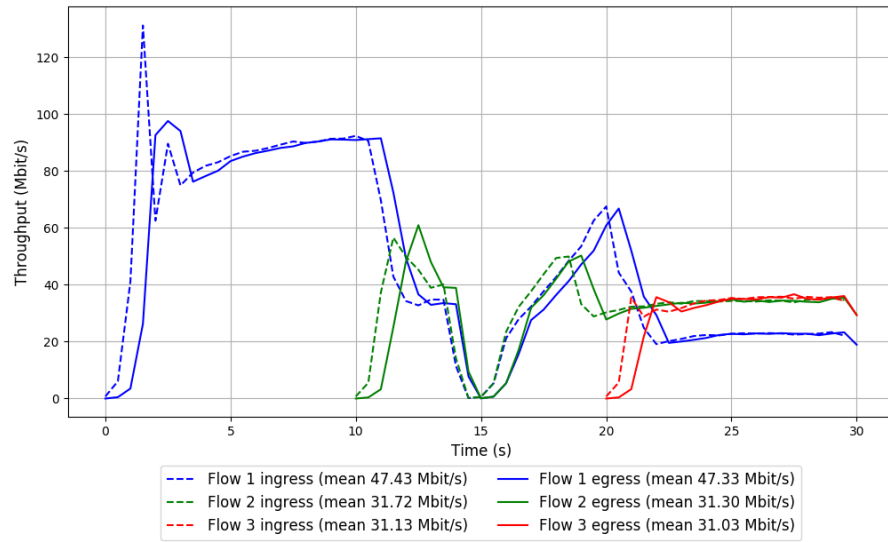
-- Flow 3:

Average throughput: 31.03 Mbit/s

95th percentile per-packet one-way delay: 153.359 ms

Loss rate: 2.05%

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

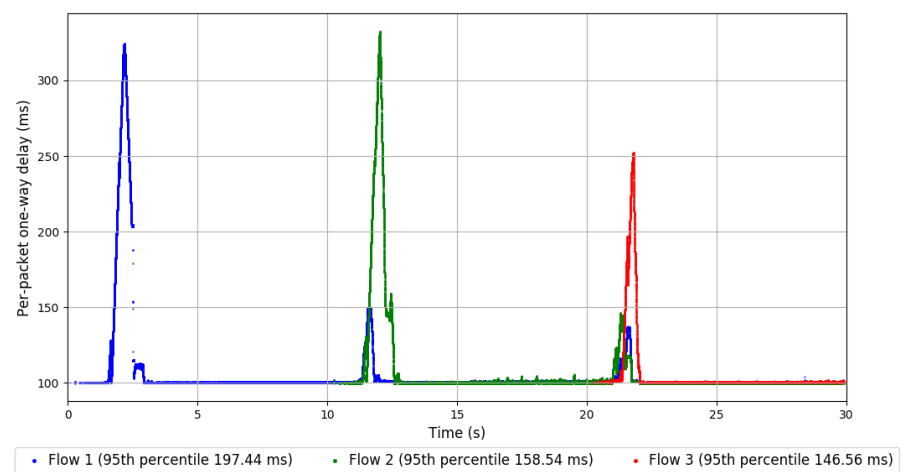
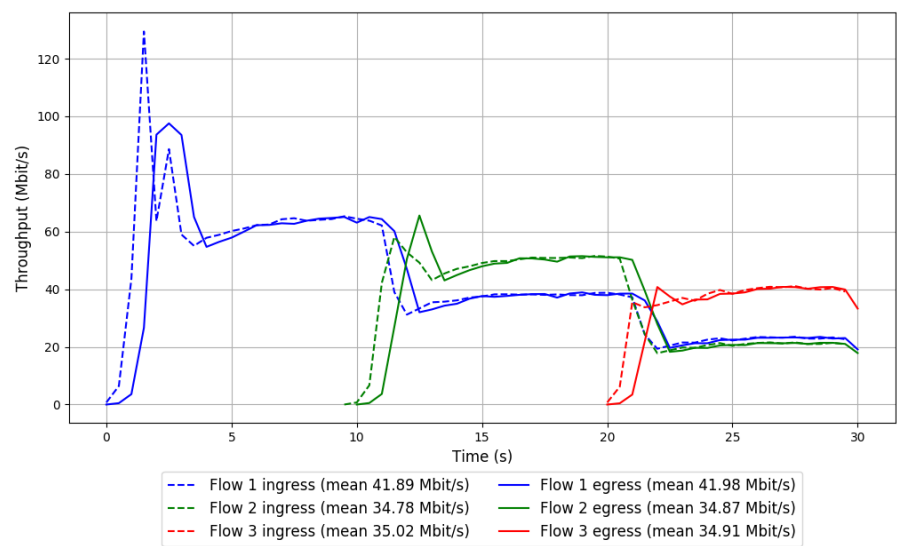


Run 4: Statistics of TCP Cubic

Start at: 2019-07-12 17:41:05  
End at: 2019-07-12 17:41:36  
Local clock offset: -3.606 ms  
Remote clock offset: -3.942 ms

# Below is generated by plot.py at 2019-07-12 18:40:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.63 Mbit/s  
95th percentile per-packet one-way delay: 169.869 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 41.98 Mbit/s  
95th percentile per-packet one-way delay: 197.445 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 34.87 Mbit/s  
95th percentile per-packet one-way delay: 158.536 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 34.91 Mbit/s  
95th percentile per-packet one-way delay: 146.564 ms  
Loss rate: 2.03%

Run 4: Report of TCP Cubic — Data Link

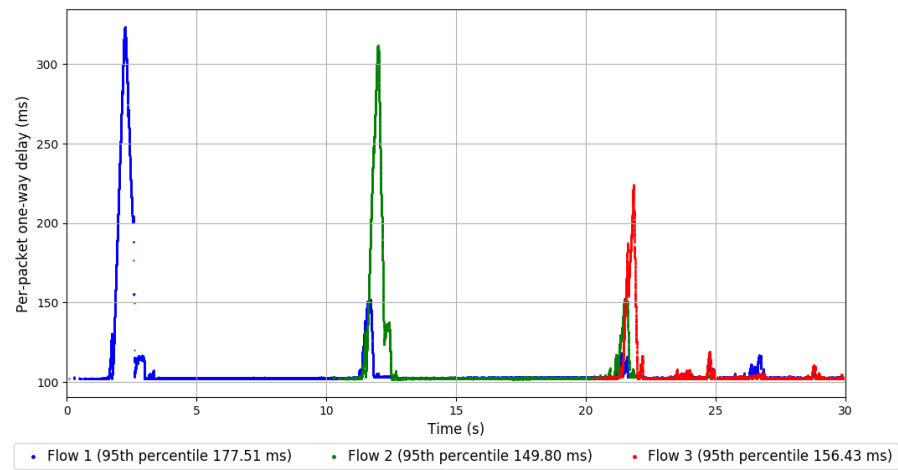
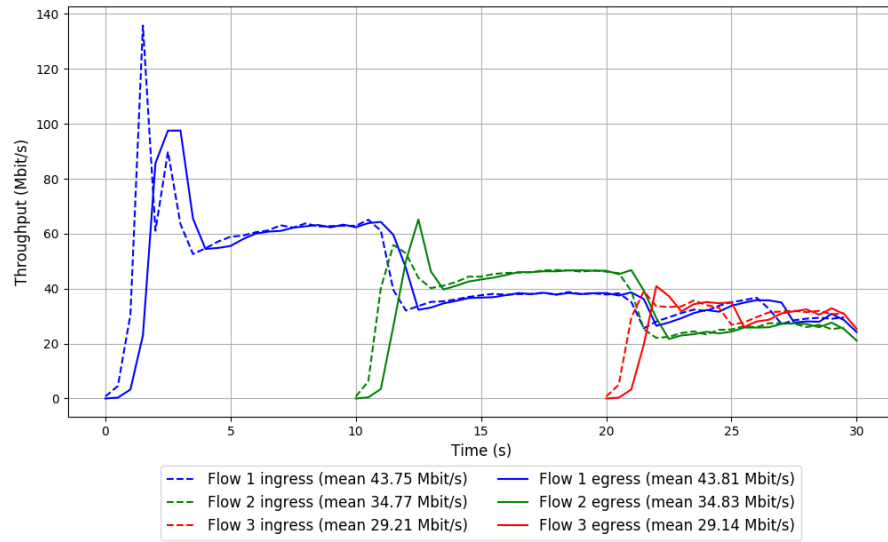


Run 5: Statistics of TCP Cubic

Start at: 2019-07-12 18:13:04  
End at: 2019-07-12 18:13:34  
Local clock offset: -3.225 ms  
Remote clock offset: -3.771 ms

# Below is generated by plot.py at 2019-07-12 18:40:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.50 Mbit/s  
95th percentile per-packet one-way delay: 157.617 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 43.81 Mbit/s  
95th percentile per-packet one-way delay: 177.513 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 34.83 Mbit/s  
95th percentile per-packet one-way delay: 149.802 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 29.14 Mbit/s  
95th percentile per-packet one-way delay: 156.428 ms  
Loss rate: 2.06%

# Run 5: Report of TCP Cubic — Data Link

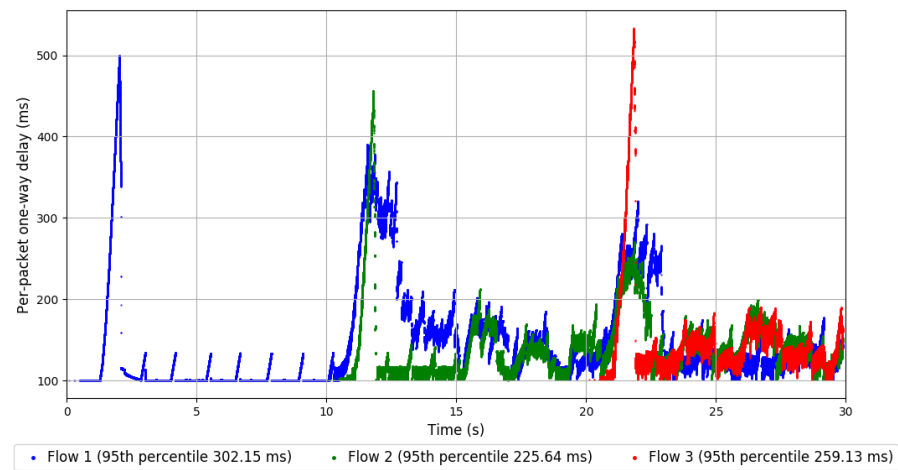
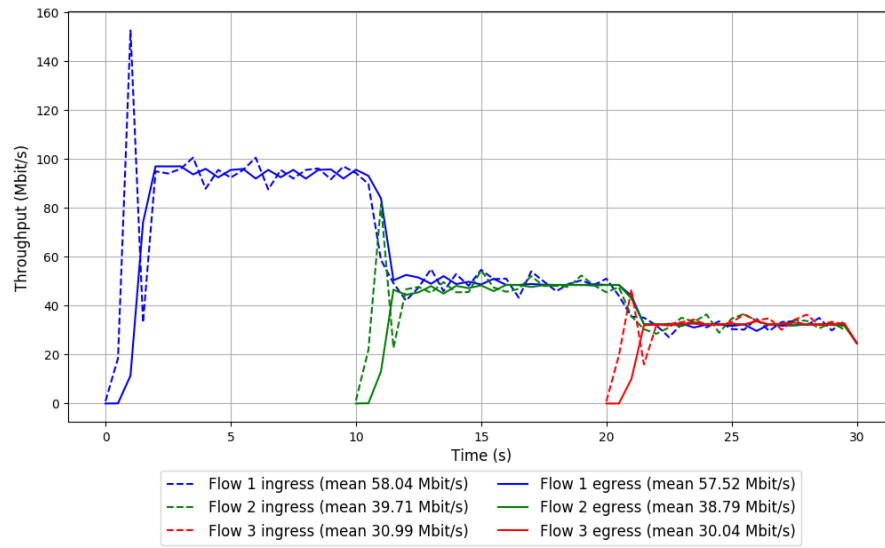


Run 1: Statistics of FillP

Start at: 2019-07-12 16:00:38  
End at: 2019-07-12 16:01:08  
Local clock offset: -6.79 ms  
Remote clock offset: -12.72 ms

# Below is generated by plot.py at 2019-07-12 18:40:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.14 Mbit/s  
95th percentile per-packet one-way delay: 282.231 ms  
Loss rate: 2.25%  
-- Flow 1:  
Average throughput: 57.52 Mbit/s  
95th percentile per-packet one-way delay: 302.149 ms  
Loss rate: 1.43%  
-- Flow 2:  
Average throughput: 38.79 Mbit/s  
95th percentile per-packet one-way delay: 225.644 ms  
Loss rate: 3.07%  
-- Flow 3:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 259.135 ms  
Loss rate: 4.72%

# Run 1: Report of FillP — Data Link



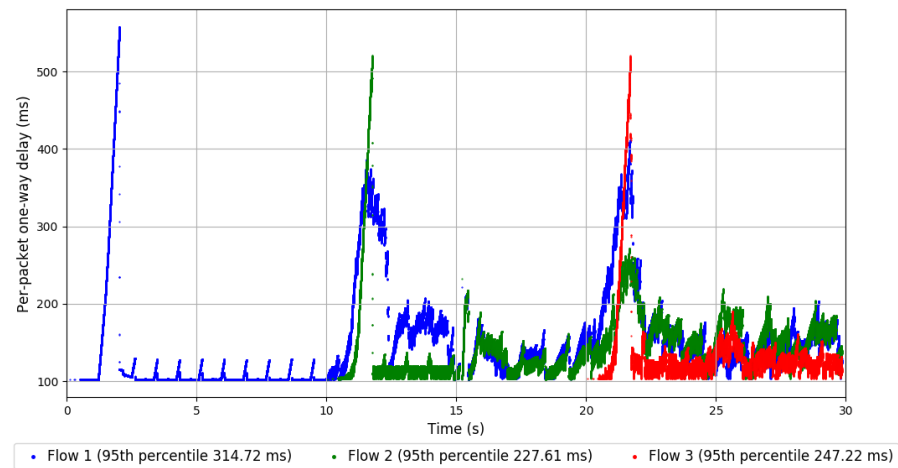
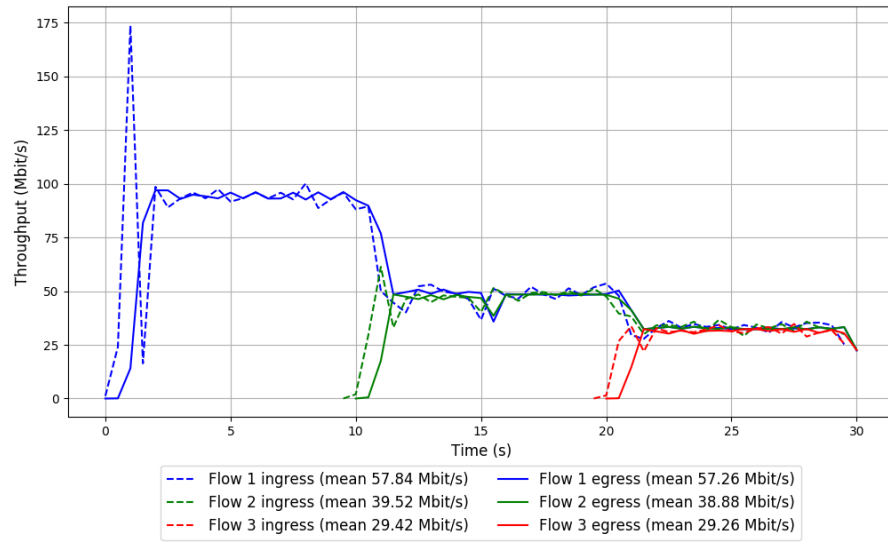


Run 2: Statistics of FillP

Start at: 2019-07-12 16:32:06  
End at: 2019-07-12 16:32:36  
Local clock offset: 0.761 ms  
Remote clock offset: -12.271 ms

# Below is generated by plot.py at 2019-07-12 18:40:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.76 Mbit/s  
95th percentile per-packet one-way delay: 287.734 ms  
Loss rate: 1.83%  
-- Flow 1:  
Average throughput: 57.26 Mbit/s  
95th percentile per-packet one-way delay: 314.721 ms  
Loss rate: 1.48%  
-- Flow 2:  
Average throughput: 38.88 Mbit/s  
95th percentile per-packet one-way delay: 227.614 ms  
Loss rate: 2.43%  
-- Flow 3:  
Average throughput: 29.26 Mbit/s  
95th percentile per-packet one-way delay: 247.218 ms  
Loss rate: 2.30%

## Run 2: Report of FillP — Data Link

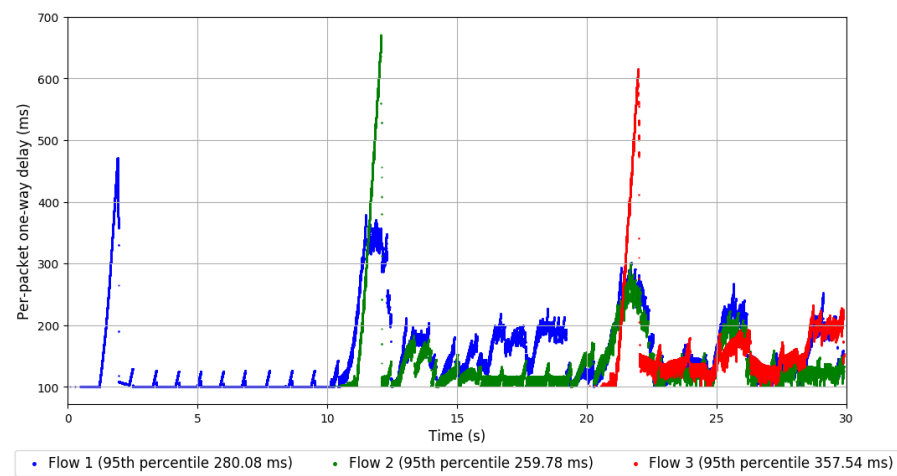
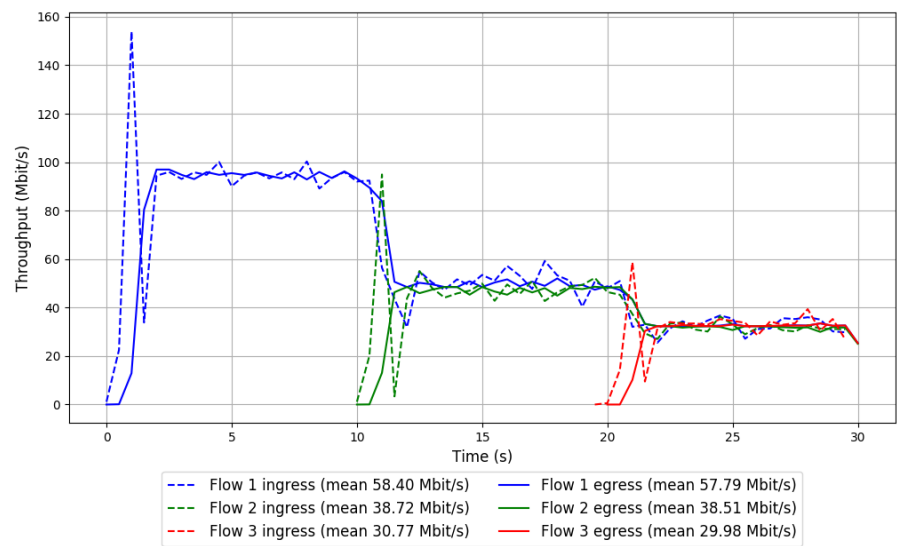


Run 3: Statistics of FillP

Start at: 2019-07-12 17:03:25  
End at: 2019-07-12 17:03:55  
Local clock offset: -1.002 ms  
Remote clock offset: -6.605 ms

# Below is generated by plot.py at 2019-07-12 18:40:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.21 Mbit/s  
95th percentile per-packet one-way delay: 276.307 ms  
Loss rate: 1.85%  
-- Flow 1:  
Average throughput: 57.79 Mbit/s  
95th percentile per-packet one-way delay: 280.078 ms  
Loss rate: 1.63%  
-- Flow 2:  
Average throughput: 38.51 Mbit/s  
95th percentile per-packet one-way delay: 259.784 ms  
Loss rate: 1.40%  
-- Flow 3:  
Average throughput: 29.98 Mbit/s  
95th percentile per-packet one-way delay: 357.536 ms  
Loss rate: 4.27%

Run 3: Report of FillP — Data Link

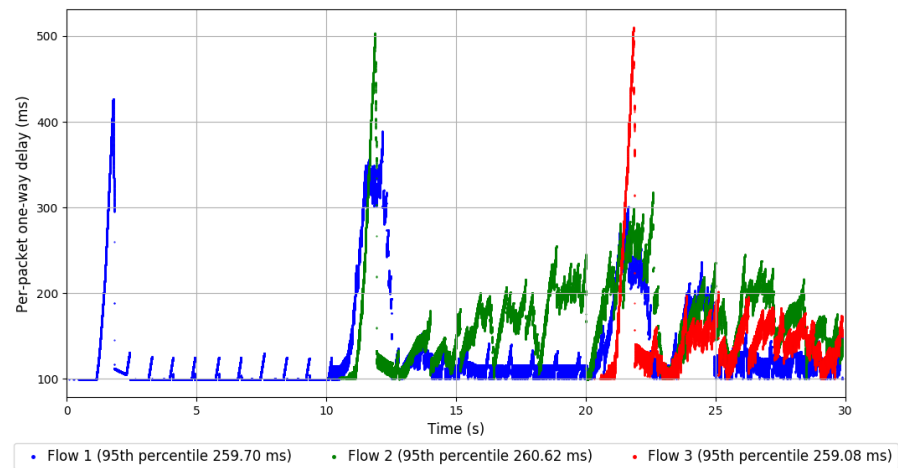
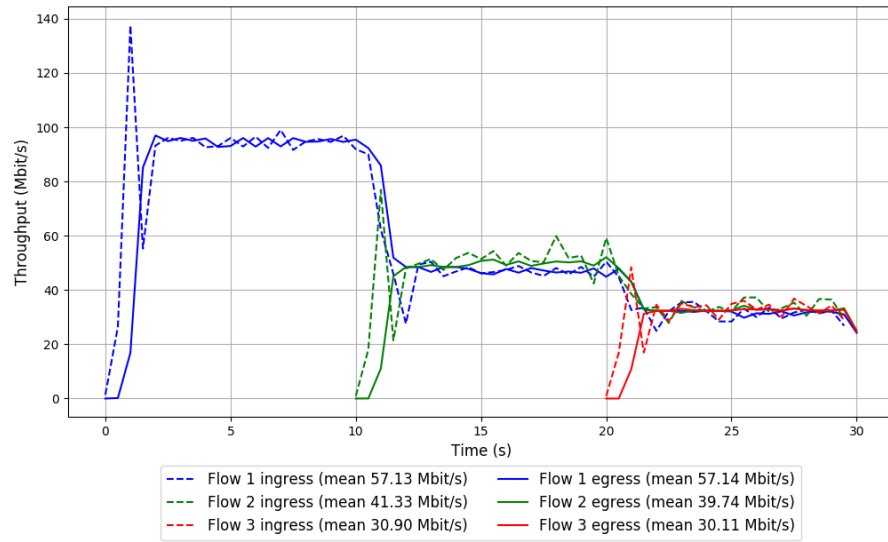


Run 4: Statistics of FillP

Start at: 2019-07-12 17:34:37  
End at: 2019-07-12 17:35:07  
Local clock offset: -3.25 ms  
Remote clock offset: -2.803 ms

# Below is generated by plot.py at 2019-07-12 18:40:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.41 Mbit/s  
95th percentile per-packet one-way delay: 260.094 ms  
Loss rate: 2.10%  
-- Flow 1:  
Average throughput: 57.14 Mbit/s  
95th percentile per-packet one-way delay: 259.696 ms  
Loss rate: 0.55%  
-- Flow 2:  
Average throughput: 39.74 Mbit/s  
95th percentile per-packet one-way delay: 260.621 ms  
Loss rate: 4.63%  
-- Flow 3:  
Average throughput: 30.11 Mbit/s  
95th percentile per-packet one-way delay: 259.079 ms  
Loss rate: 3.95%

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



Run 5: Statistics of FillP

Start at: 2019-07-12 18:05:43

End at: 2019-07-12 18:06:13

Local clock offset: -3.236 ms

Remote clock offset: -2.56 ms

# Below is generated by plot.py at 2019-07-12 18:41:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.14 Mbit/s

95th percentile per-packet one-way delay: 317.453 ms

Loss rate: 2.28%

-- Flow 1:

Average throughput: 57.56 Mbit/s

95th percentile per-packet one-way delay: 328.027 ms

Loss rate: 1.36%

-- Flow 2:

Average throughput: 39.29 Mbit/s

95th percentile per-packet one-way delay: 303.092 ms

Loss rate: 2.89%

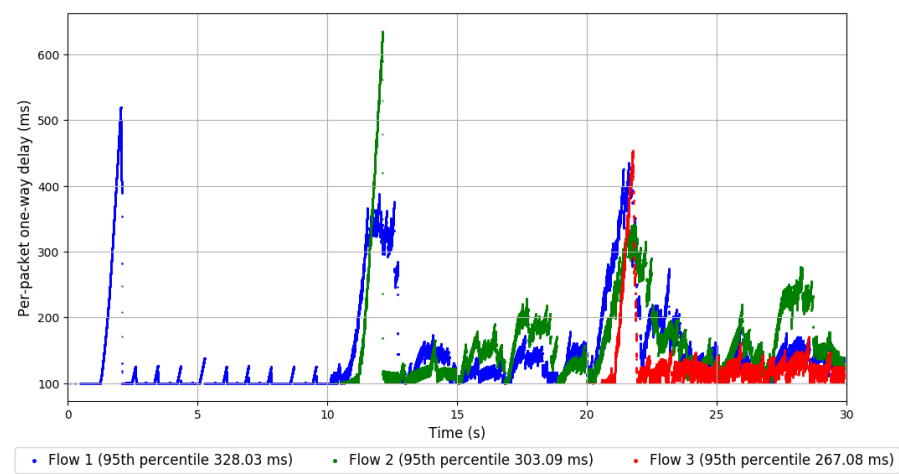
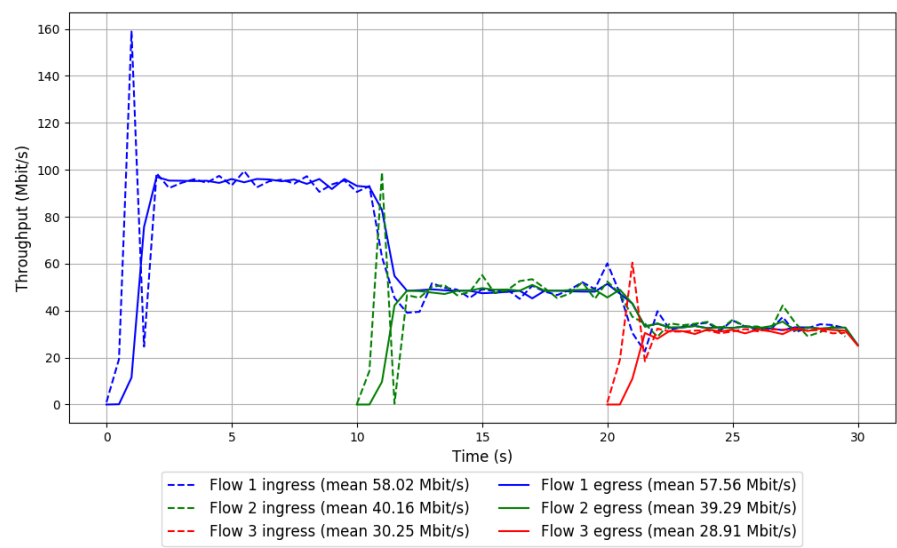
-- Flow 3:

Average throughput: 28.91 Mbit/s

95th percentile per-packet one-way delay: 267.084 ms

Loss rate: 5.99%

Run 5: Report of FillP — Data Link



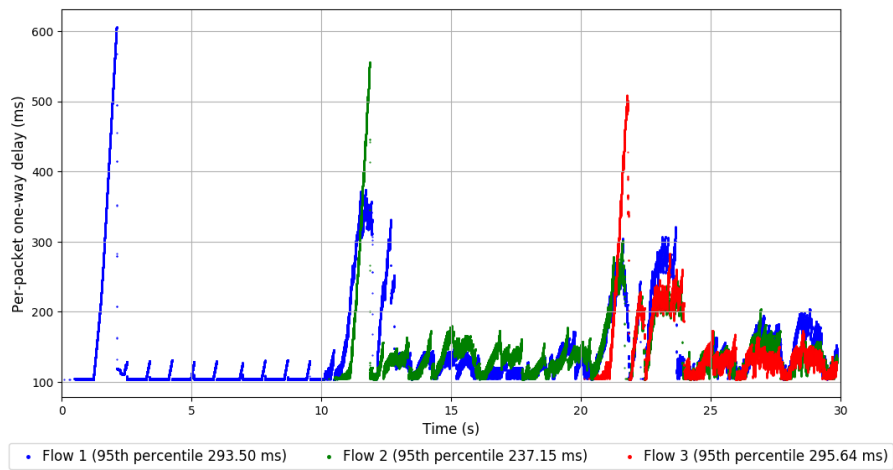
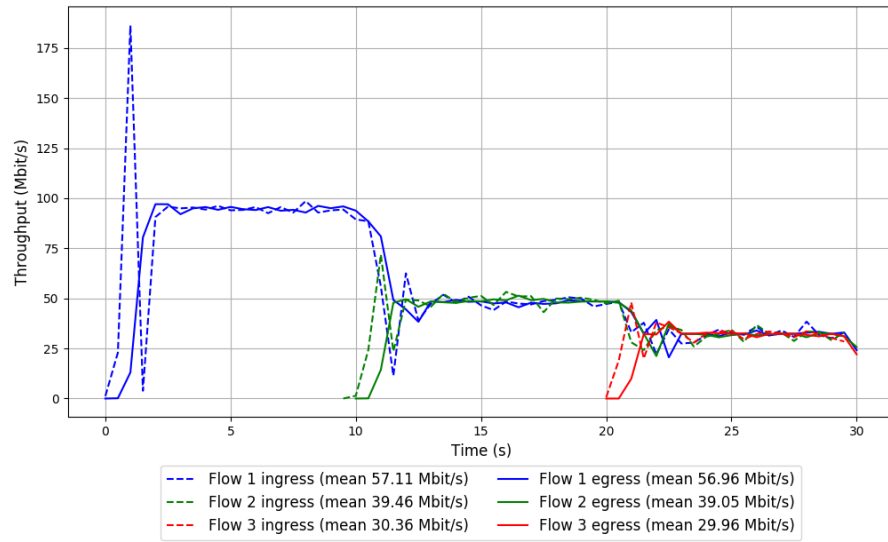


Run 1: Statistics of FillP-Sheep

Start at: 2019-07-12 16:01:57  
End at: 2019-07-12 16:02:27  
Local clock offset: -5.414 ms  
Remote clock offset: -16.38 ms

# Below is generated by plot.py at 2019-07-12 18:41:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.69 Mbit/s  
95th percentile per-packet one-way delay: 275.673 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 56.96 Mbit/s  
95th percentile per-packet one-way delay: 293.497 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 39.05 Mbit/s  
95th percentile per-packet one-way delay: 237.151 ms  
Loss rate: 2.03%  
-- Flow 3:  
Average throughput: 29.96 Mbit/s  
95th percentile per-packet one-way delay: 295.636 ms  
Loss rate: 3.42%

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

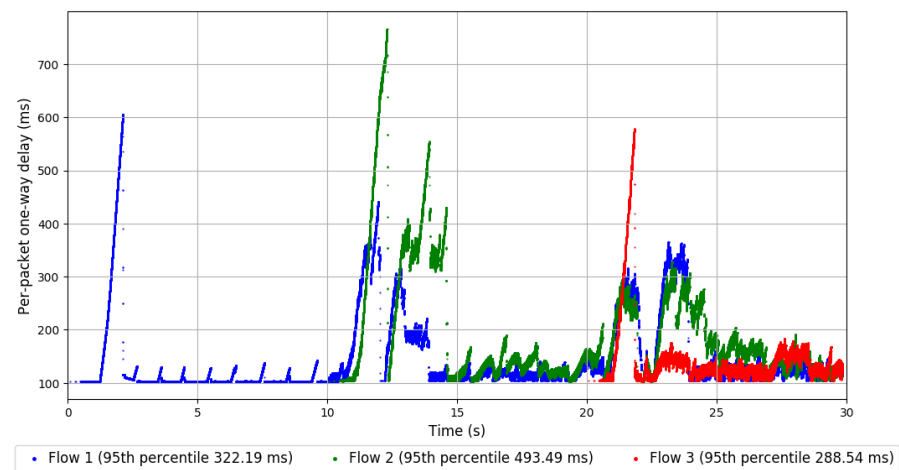
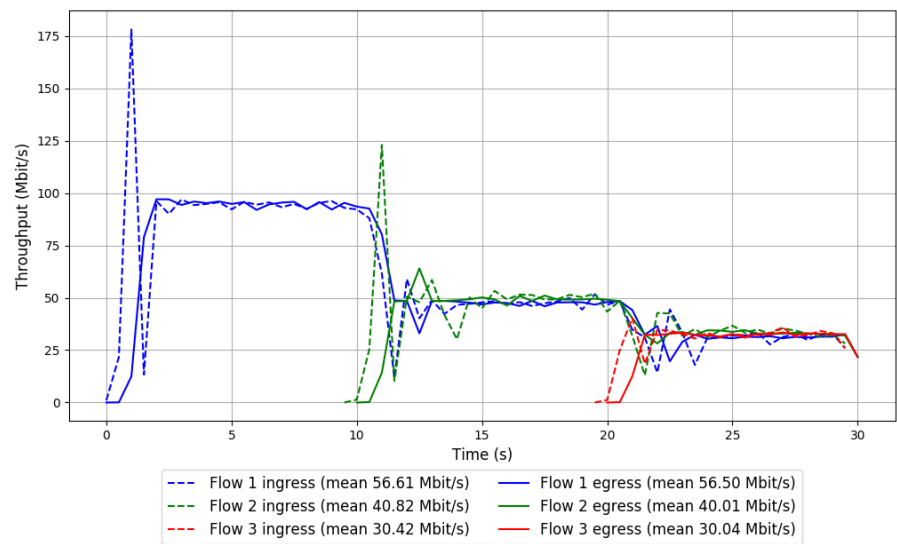


Run 2: Statistics of FillP-Sheep

Start at: 2019-07-12 16:33:27  
End at: 2019-07-12 16:33:57  
Local clock offset: 0.825 ms  
Remote clock offset: -12.896 ms

# Below is generated by plot.py at 2019-07-12 18:41:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.98 Mbit/s  
95th percentile per-packet one-way delay: 364.372 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 56.50 Mbit/s  
95th percentile per-packet one-way delay: 322.193 ms  
Loss rate: 0.72%  
-- Flow 2:  
Average throughput: 40.01 Mbit/s  
95th percentile per-packet one-way delay: 493.489 ms  
Loss rate: 2.81%  
-- Flow 3:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 288.536 ms  
Loss rate: 2.94%

Run 2: Report of FillP-Sheep — Data Link

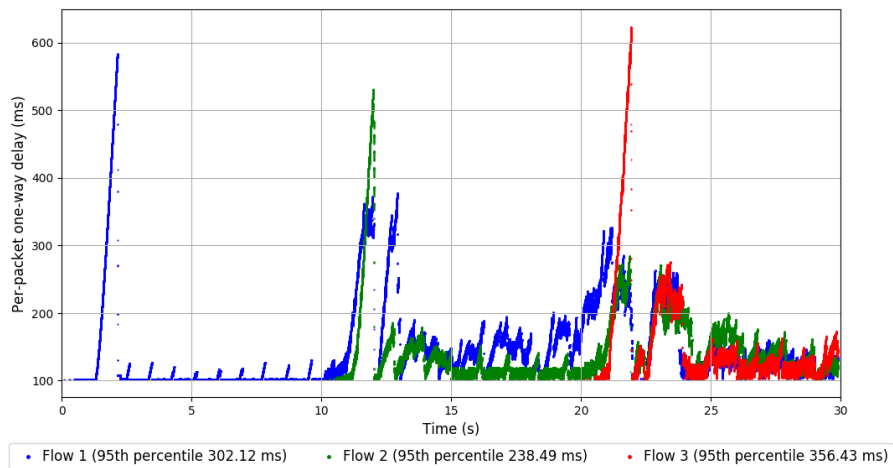
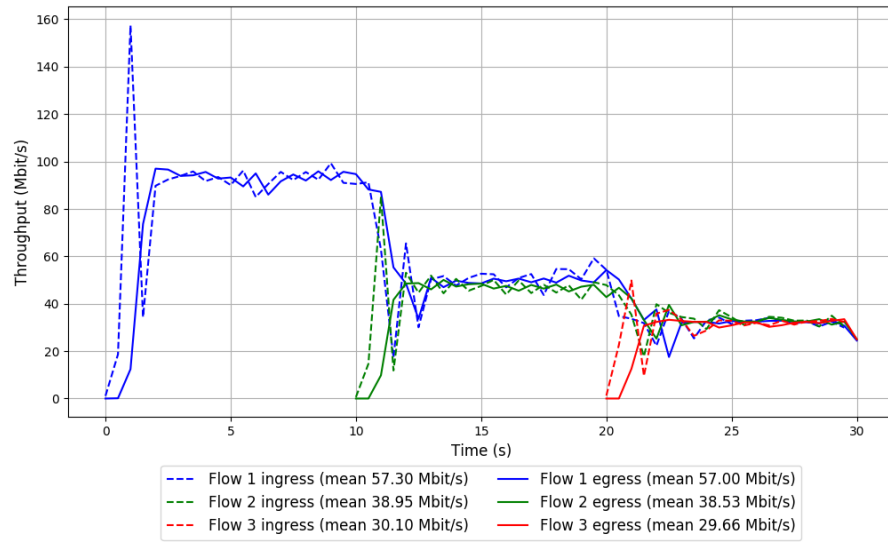


Run 3: Statistics of FillP-Sheep

Start at: 2019-07-12 17:04:43  
End at: 2019-07-12 17:05:13  
Local clock offset: -1.389 ms  
Remote clock offset: -7.385 ms

# Below is generated by plot.py at 2019-07-12 18:41:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.32 Mbit/s  
95th percentile per-packet one-way delay: 283.161 ms  
Loss rate: 1.54%  
-- Flow 1:  
Average throughput: 57.00 Mbit/s  
95th percentile per-packet one-way delay: 302.124 ms  
Loss rate: 1.11%  
-- Flow 2:  
Average throughput: 38.53 Mbit/s  
95th percentile per-packet one-way delay: 238.490 ms  
Loss rate: 1.84%  
-- Flow 3:  
Average throughput: 29.66 Mbit/s  
95th percentile per-packet one-way delay: 356.433 ms  
Loss rate: 3.25%

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

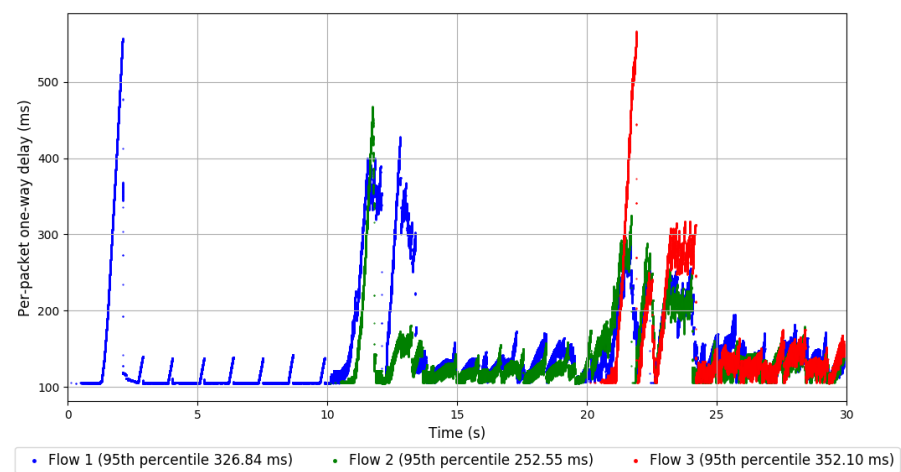
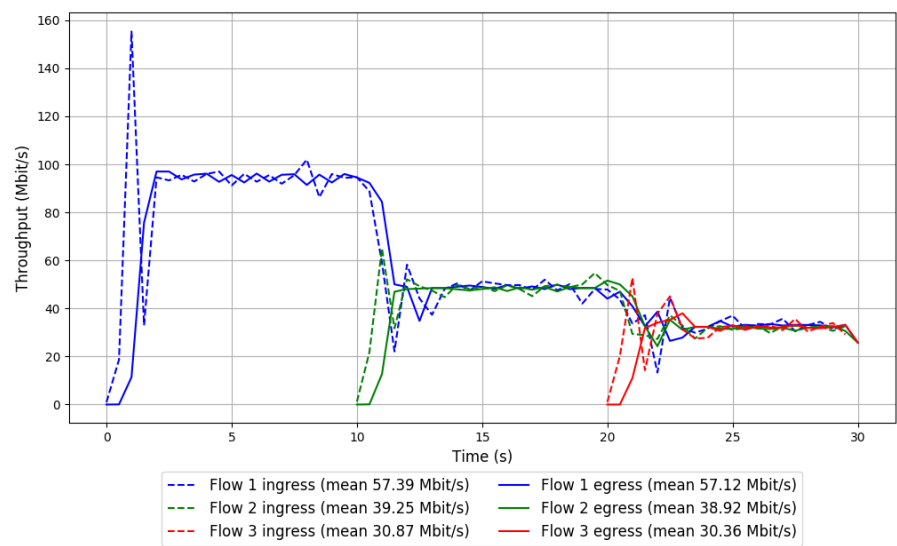


Run 4: Statistics of FillP-Sheep

Start at: 2019-07-12 17:35:54  
End at: 2019-07-12 17:36:24  
Local clock offset: -3.015 ms  
Remote clock offset: -8.719 ms

# Below is generated by plot.py at 2019-07-12 18:41:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.94 Mbit/s  
95th percentile per-packet one-way delay: 303.512 ms  
Loss rate: 1.42%  
-- Flow 1:  
Average throughput: 57.12 Mbit/s  
95th percentile per-packet one-way delay: 326.840 ms  
Loss rate: 1.04%  
-- Flow 2:  
Average throughput: 38.92 Mbit/s  
95th percentile per-packet one-way delay: 252.548 ms  
Loss rate: 1.65%  
-- Flow 3:  
Average throughput: 30.36 Mbit/s  
95th percentile per-packet one-way delay: 352.101 ms  
Loss rate: 2.97%

Run 4: Report of FillP-Sheep — Data Link



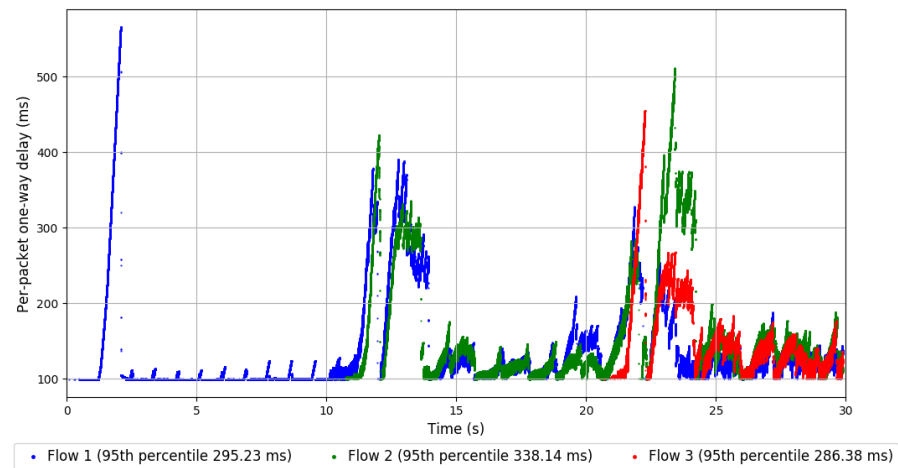
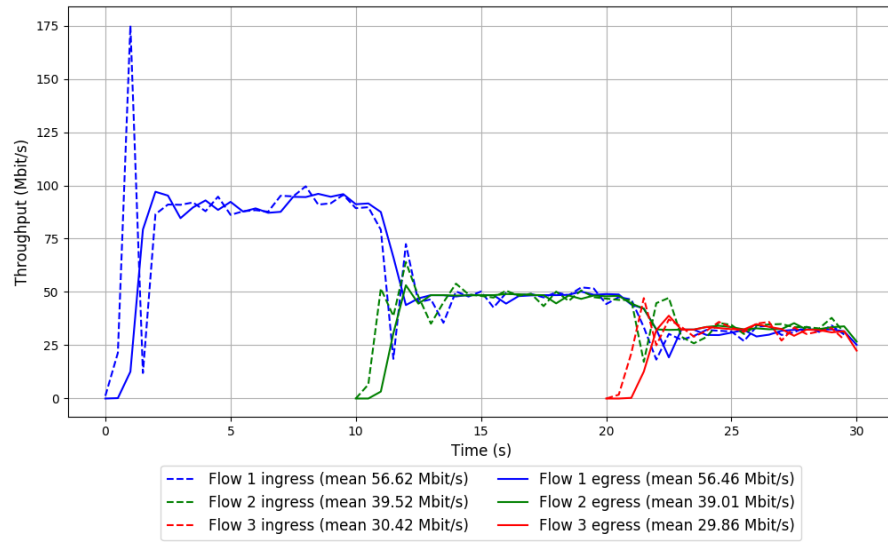


Run 5: Statistics of FillP-Sheep

Start at: 2019-07-12 18:07:01  
End at: 2019-07-12 18:07:31  
Local clock offset: -2.381 ms  
Remote clock offset: -0.582 ms

# Below is generated by plot.py at 2019-07-12 18:41:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.78 Mbit/s  
95th percentile per-packet one-way delay: 315.706 ms  
Loss rate: 1.52%  
-- Flow 1:  
Average throughput: 56.46 Mbit/s  
95th percentile per-packet one-way delay: 295.234 ms  
Loss rate: 0.85%  
-- Flow 2:  
Average throughput: 39.01 Mbit/s  
95th percentile per-packet one-way delay: 338.139 ms  
Loss rate: 2.18%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 286.383 ms  
Loss rate: 3.56%

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

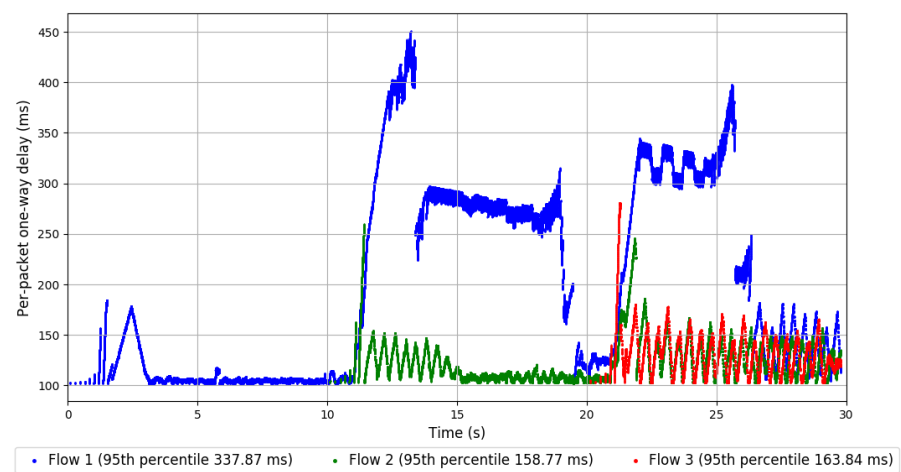
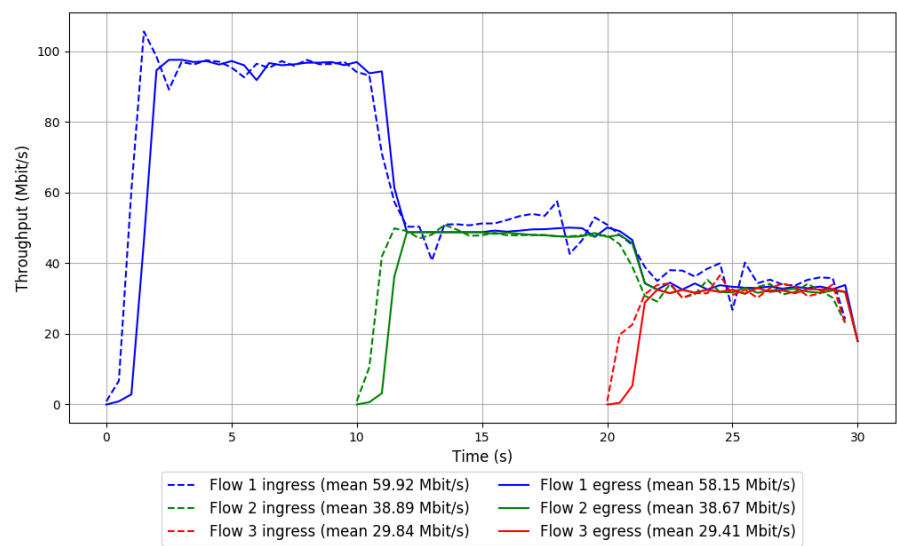


Run 1: Statistics of Indigo

Start at: 2019-07-12 16:14:57  
End at: 2019-07-12 16:15:27  
Local clock offset: -1.421 ms  
Remote clock offset: -14.024 ms

# Below is generated by plot.py at 2019-07-12 18:41:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.34 Mbit/s  
95th percentile per-packet one-way delay: 321.776 ms  
Loss rate: 2.92%  
-- Flow 1:  
Average throughput: 58.15 Mbit/s  
95th percentile per-packet one-way delay: 337.871 ms  
Loss rate: 3.52%  
-- Flow 2:  
Average throughput: 38.67 Mbit/s  
95th percentile per-packet one-way delay: 158.772 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 29.41 Mbit/s  
95th percentile per-packet one-way delay: 163.841 ms  
Loss rate: 3.17%

Run 1: Report of Indigo — Data Link

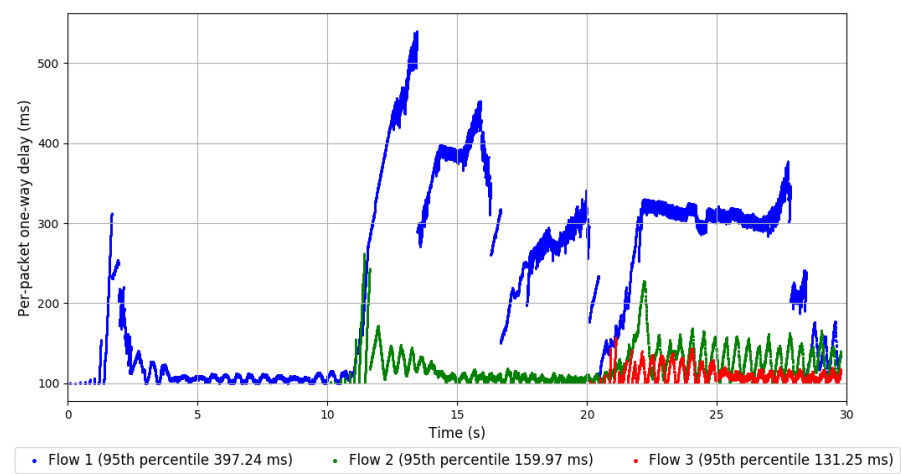
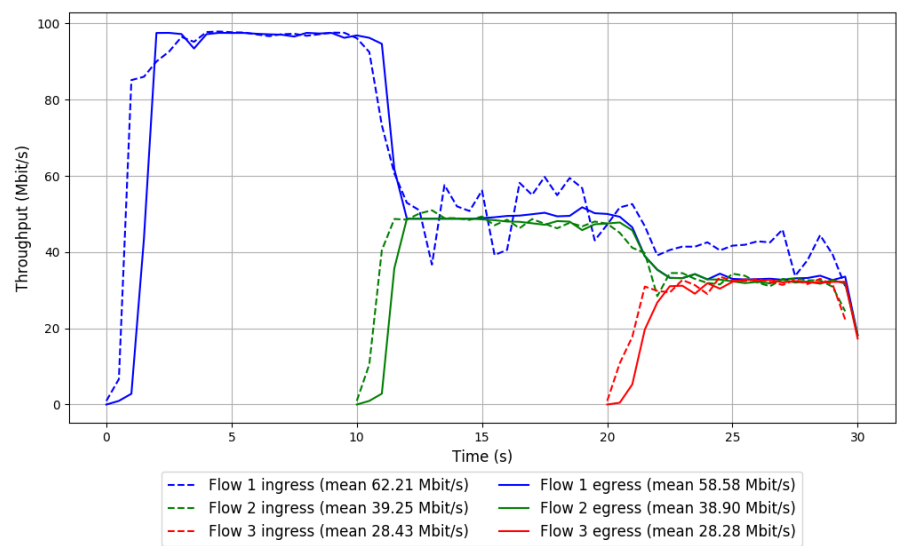


Run 2: Statistics of Indigo

Start at: 2019-07-12 16:46:33  
End at: 2019-07-12 16:47:03  
Local clock offset: 1.768 ms  
Remote clock offset: -6.149 ms

# Below is generated by plot.py at 2019-07-12 18:41:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.56 Mbit/s  
95th percentile per-packet one-way delay: 382.663 ms  
Loss rate: 4.75%  
-- Flow 1:  
Average throughput: 58.58 Mbit/s  
95th percentile per-packet one-way delay: 397.239 ms  
Loss rate: 6.38%  
-- Flow 2:  
Average throughput: 38.90 Mbit/s  
95th percentile per-packet one-way delay: 159.970 ms  
Loss rate: 1.76%  
-- Flow 3:  
Average throughput: 28.28 Mbit/s  
95th percentile per-packet one-way delay: 131.253 ms  
Loss rate: 2.28%

Run 2: Report of Indigo — Data Link

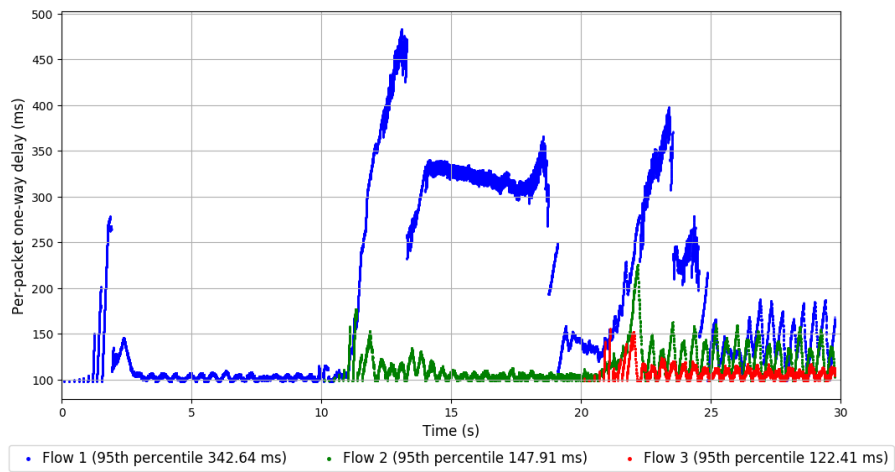
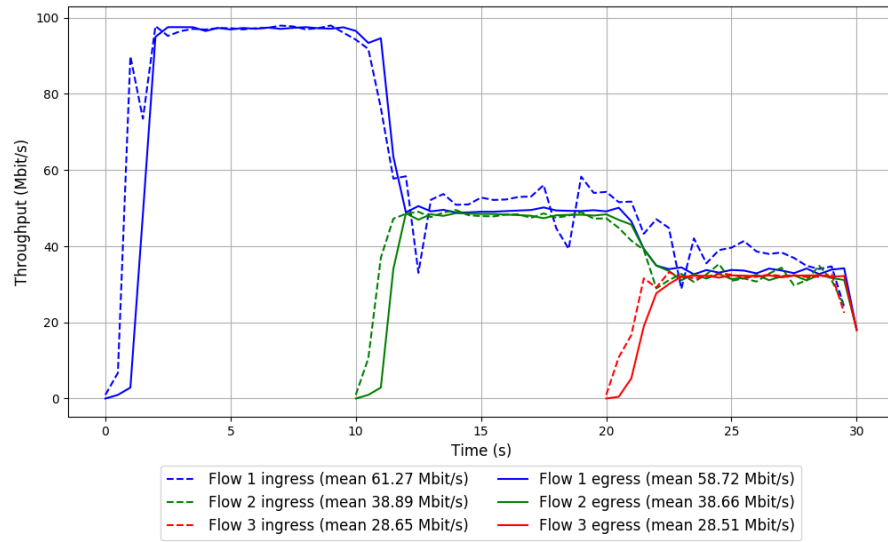


Run 3: Statistics of Indigo

Start at: 2019-07-12 17:17:46  
End at: 2019-07-12 17:18:16  
Local clock offset: -4.339 ms  
Remote clock offset: -3.498 ms

# Below is generated by plot.py at 2019-07-12 18:42:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.61 Mbit/s  
95th percentile per-packet one-way delay: 331.466 ms  
Loss rate: 3.60%  
-- Flow 1:  
Average throughput: 58.72 Mbit/s  
95th percentile per-packet one-way delay: 342.643 ms  
Loss rate: 4.71%  
-- Flow 2:  
Average throughput: 38.66 Mbit/s  
95th percentile per-packet one-way delay: 147.911 ms  
Loss rate: 1.46%  
-- Flow 3:  
Average throughput: 28.51 Mbit/s  
95th percentile per-packet one-way delay: 122.409 ms  
Loss rate: 2.21%

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



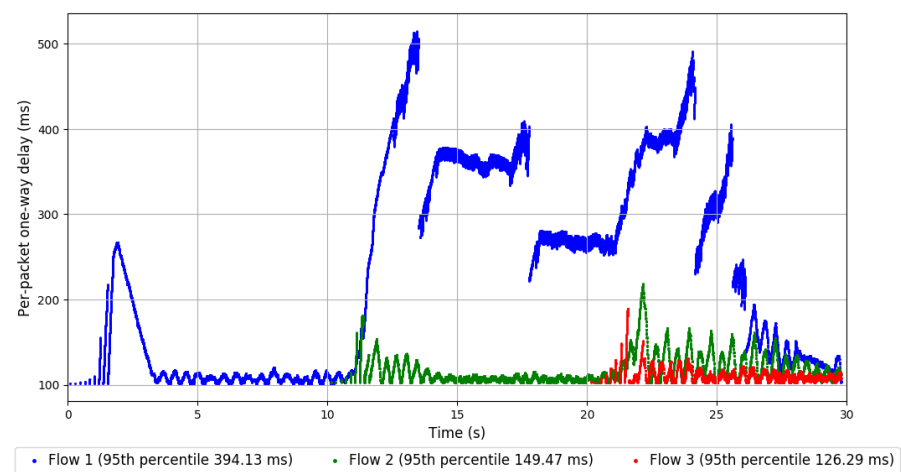
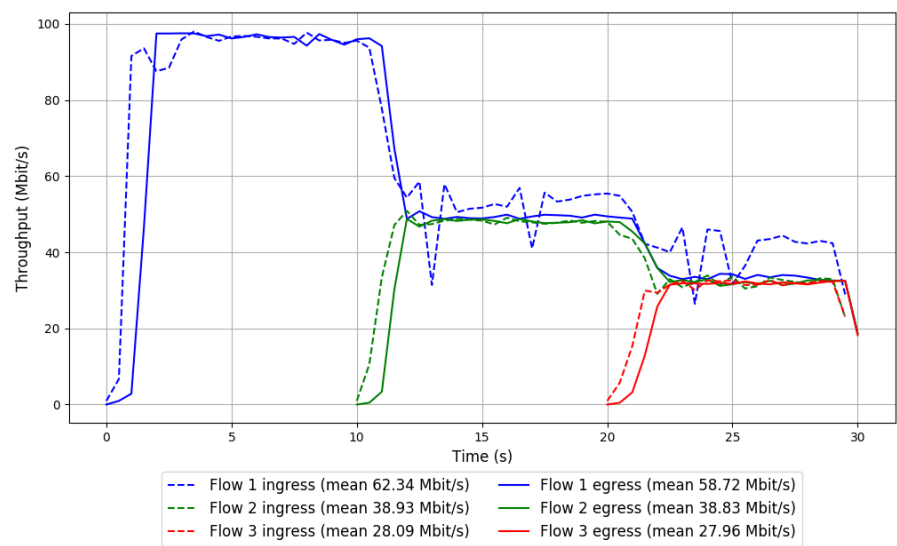


Run 4: Statistics of Indigo

Start at: 2019-07-12 17:48:50  
End at: 2019-07-12 17:49:20  
Local clock offset: -2.607 ms  
Remote clock offset: -4.369 ms

# Below is generated by plot.py at 2019-07-12 18:42:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.49 Mbit/s  
95th percentile per-packet one-way delay: 379.650 ms  
Loss rate: 4.58%  
-- Flow 1:  
Average throughput: 58.72 Mbit/s  
95th percentile per-packet one-way delay: 394.132 ms  
Loss rate: 6.35%  
-- Flow 2:  
Average throughput: 38.83 Mbit/s  
95th percentile per-packet one-way delay: 149.469 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 27.96 Mbit/s  
95th percentile per-packet one-way delay: 126.287 ms  
Loss rate: 2.22%

Run 4: Report of Indigo — Data Link

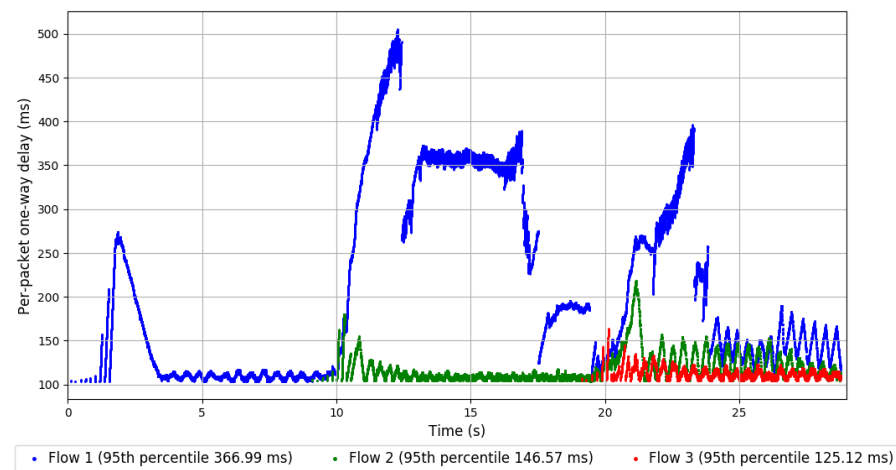
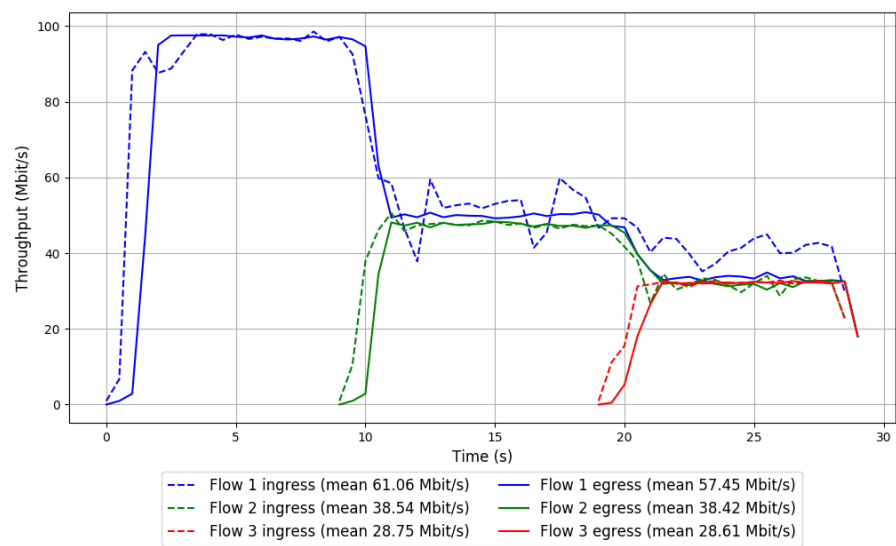


Run 5: Statistics of Indigo

Start at: 2019-07-12 18:20:55  
End at: 2019-07-12 18:21:25  
Local clock offset: -3.383 ms  
Remote clock offset: -4.996 ms

# Below is generated by plot.py at 2019-07-12 18:42:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.43 Mbit/s  
95th percentile per-packet one-way delay: 360.890 ms  
Loss rate: 4.60%  
-- Flow 1:  
Average throughput: 57.45 Mbit/s  
95th percentile per-packet one-way delay: 366.991 ms  
Loss rate: 6.47%  
-- Flow 2:  
Average throughput: 38.42 Mbit/s  
95th percentile per-packet one-way delay: 146.569 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 28.61 Mbit/s  
95th percentile per-packet one-way delay: 125.123 ms  
Loss rate: 2.24%

Run 5: Report of Indigo — Data Link

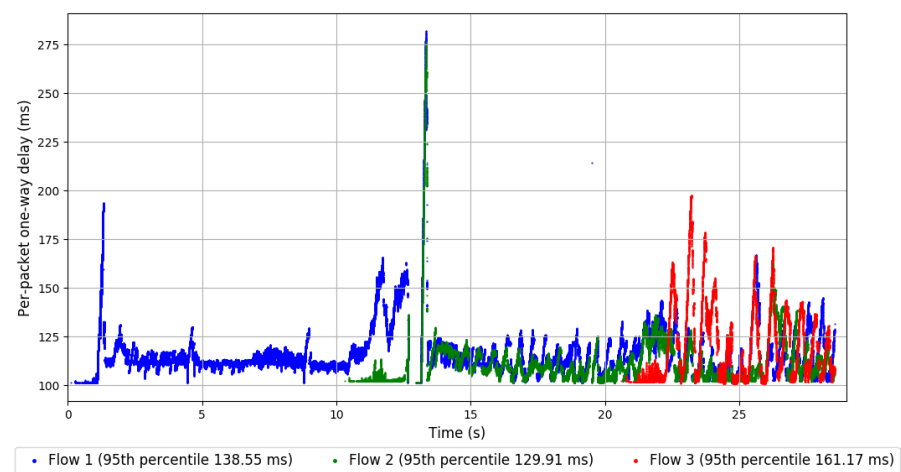
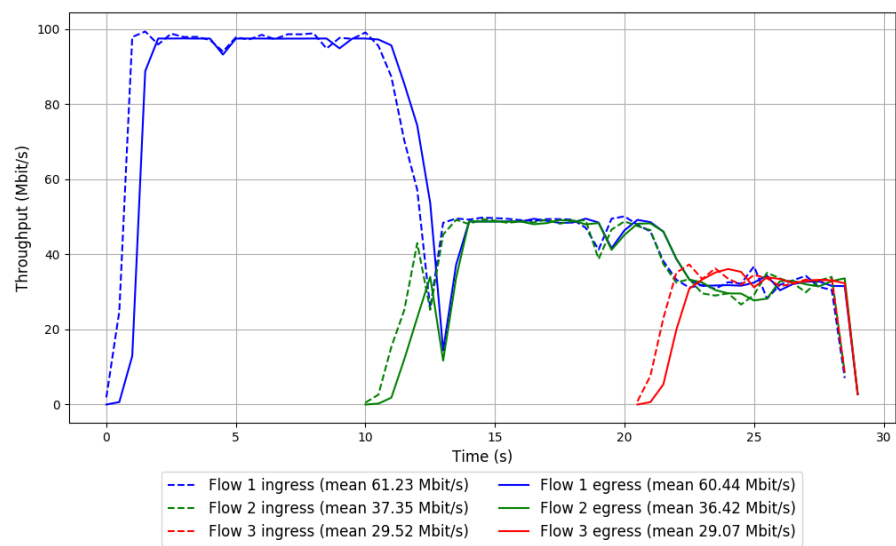


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-07-12 16:03:14  
End at: 2019-07-12 16:03:44  
Local clock offset: -5.323 ms  
Remote clock offset: -13.722 ms

# Below is generated by plot.py at 2019-07-12 18:42:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.90 Mbit/s  
95th percentile per-packet one-way delay: 140.568 ms  
Loss rate: 2.42%  
-- Flow 1:  
Average throughput: 60.44 Mbit/s  
95th percentile per-packet one-way delay: 138.550 ms  
Loss rate: 1.87%  
-- Flow 2:  
Average throughput: 36.42 Mbit/s  
95th percentile per-packet one-way delay: 129.907 ms  
Loss rate: 3.40%  
-- Flow 3:  
Average throughput: 29.07 Mbit/s  
95th percentile per-packet one-way delay: 161.167 ms  
Loss rate: 3.61%

Run 1: Report of Indigo-MusesC3 — Data Link

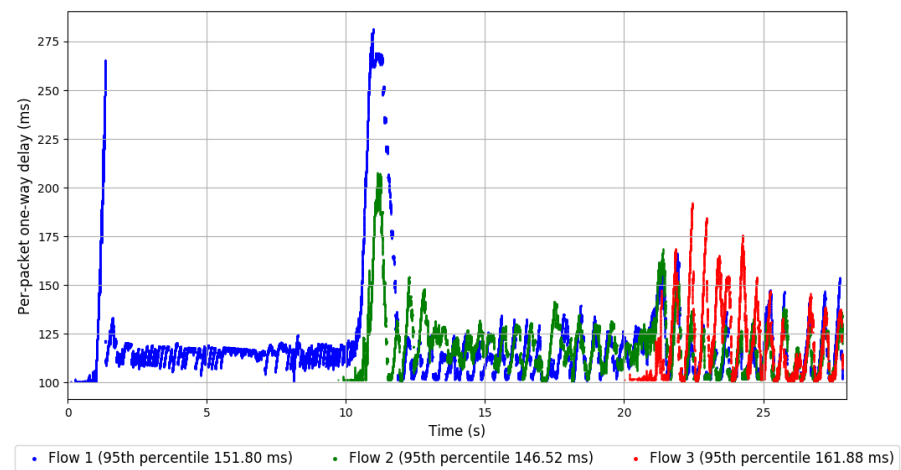
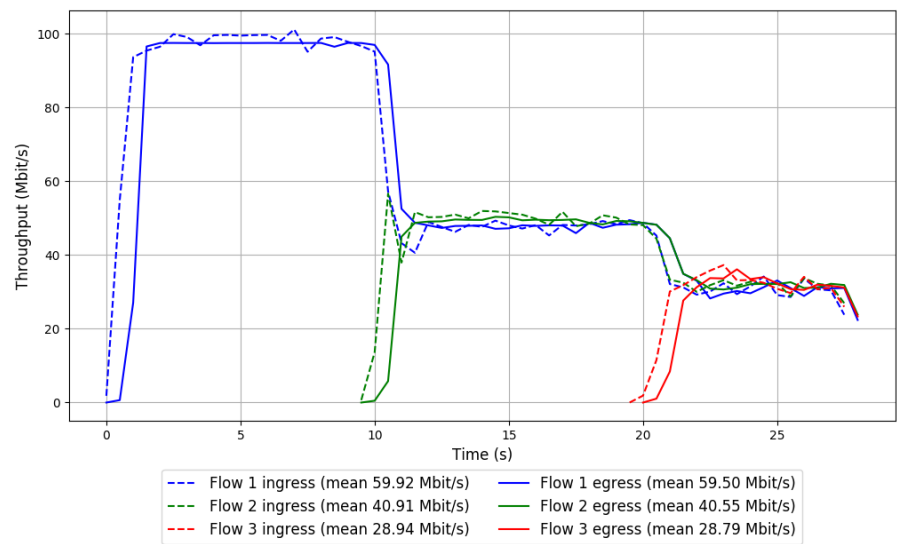


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-07-12 16:34:47  
End at: 2019-07-12 16:35:17  
Local clock offset: 0.13 ms  
Remote clock offset: -10.524 ms

# Below is generated by plot.py at 2019-07-12 18:42:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 153.110 ms  
Loss rate: 1.57%  
-- Flow 1:  
Average throughput: 59.50 Mbit/s  
95th percentile per-packet one-way delay: 151.798 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 40.55 Mbit/s  
95th percentile per-packet one-way delay: 146.524 ms  
Loss rate: 1.81%  
-- Flow 3:  
Average throughput: 28.79 Mbit/s  
95th percentile per-packet one-way delay: 161.884 ms  
Loss rate: 2.69%

Run 2: Report of Indigo-MusesC3 — Data Link



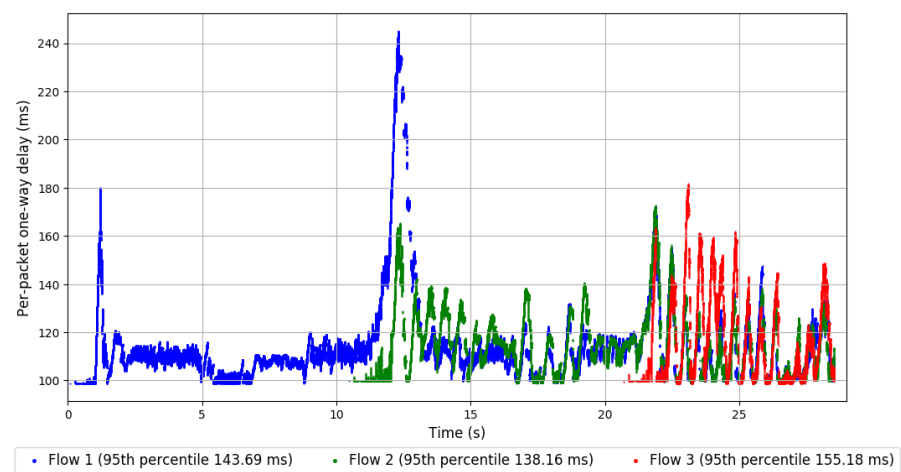
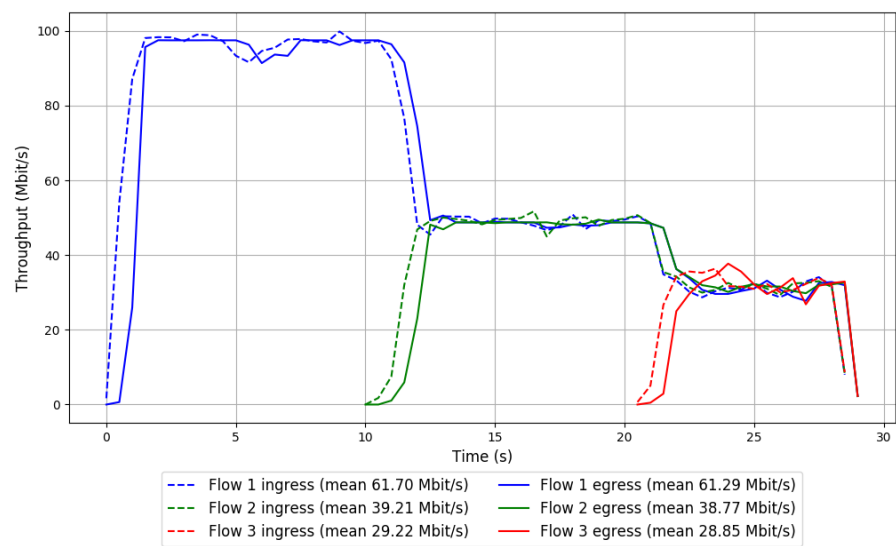


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-07-12 17:06:01  
End at: 2019-07-12 17:06:31  
Local clock offset: -1.926 ms  
Remote clock offset: -4.524 ms

# Below is generated by plot.py at 2019-07-12 18:42:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.87 Mbit/s  
95th percentile per-packet one-way delay: 144.835 ms  
Loss rate: 1.65%  
-- Flow 1:  
Average throughput: 61.29 Mbit/s  
95th percentile per-packet one-way delay: 143.688 ms  
Loss rate: 1.25%  
-- Flow 2:  
Average throughput: 38.77 Mbit/s  
95th percentile per-packet one-way delay: 138.163 ms  
Loss rate: 2.07%  
-- Flow 3:  
Average throughput: 28.85 Mbit/s  
95th percentile per-packet one-way delay: 155.181 ms  
Loss rate: 3.40%

Run 3: Report of Indigo-MusesC3 — Data Link



Run 4: Statistics of Indigo-MusesC3

Start at: 2019-07-12 17:37:12

End at: 2019-07-12 17:37:42

Local clock offset: -3.899 ms

Remote clock offset: -7.65 ms

# Below is generated by plot.py at 2019-07-12 18:43:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.38 Mbit/s

95th percentile per-packet one-way delay: 149.099 ms

Loss rate: 1.93%

-- Flow 1:

Average throughput: 61.28 Mbit/s

95th percentile per-packet one-way delay: 146.446 ms

Loss rate: 1.94%

-- Flow 2:

Average throughput: 38.95 Mbit/s

95th percentile per-packet one-way delay: 137.590 ms

Loss rate: 1.58%

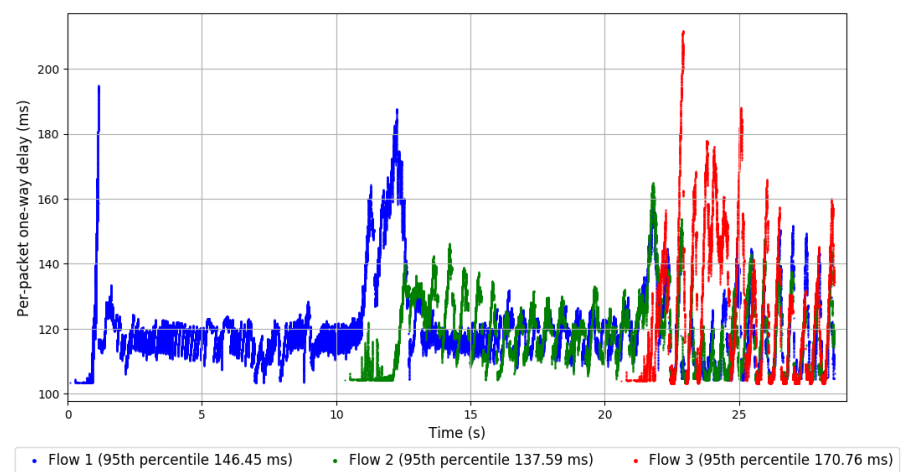
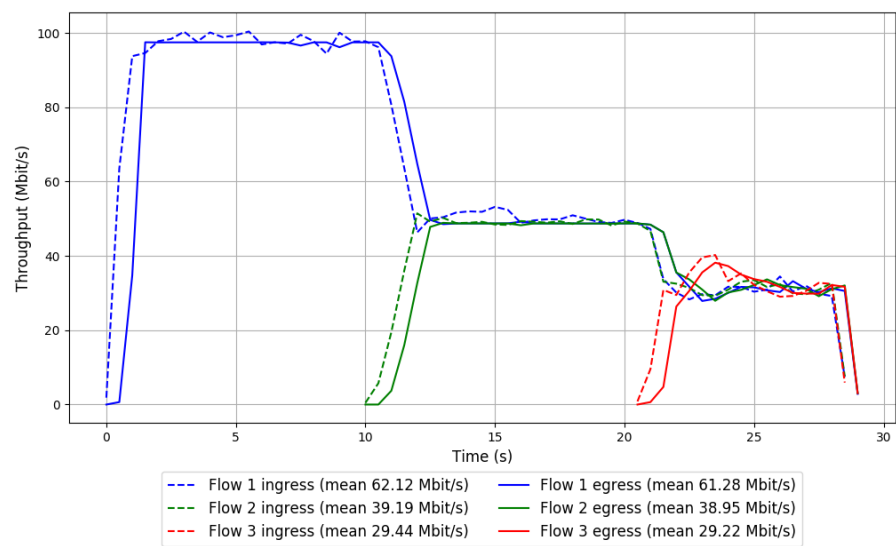
-- Flow 3:

Average throughput: 29.22 Mbit/s

95th percentile per-packet one-way delay: 170.758 ms

Loss rate: 2.88%

Run 4: Report of Indigo-MusesC3 — Data Link

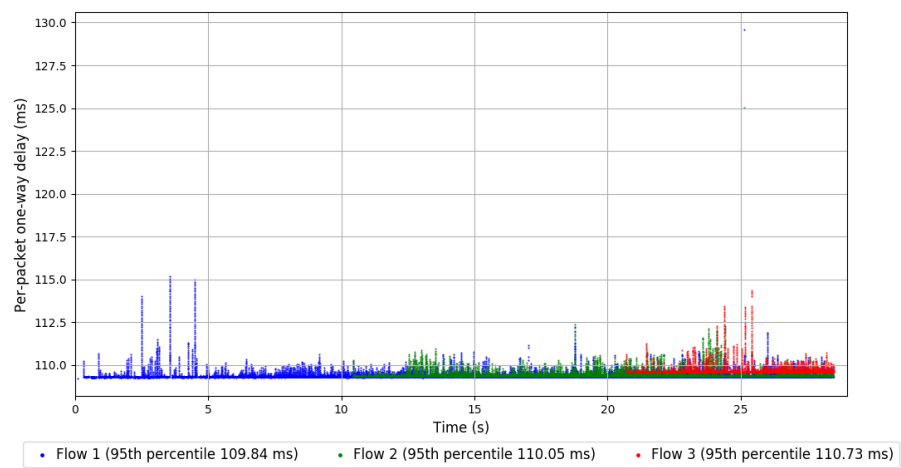
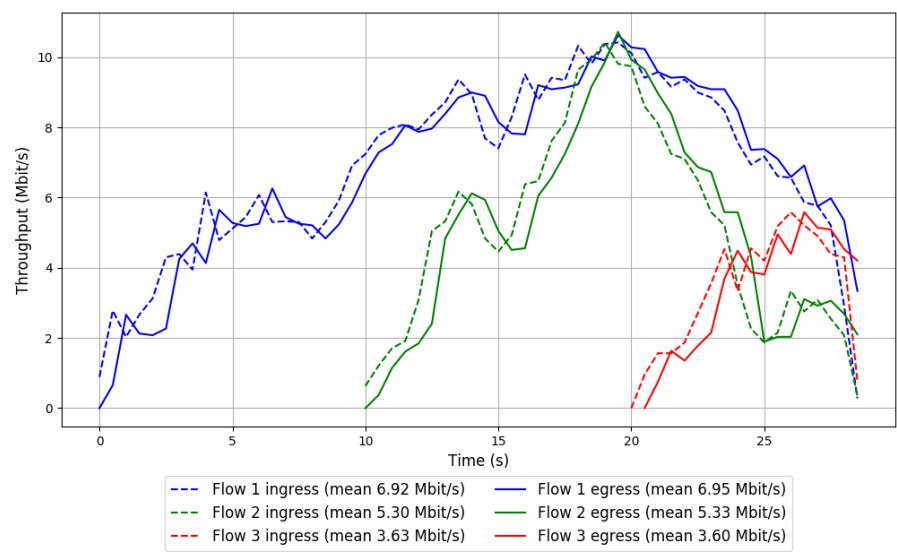


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-07-12 18:08:41  
End at: 2019-07-12 18:09:11  
Local clock offset: -2.415 ms  
Remote clock offset: -10.665 ms

# Below is generated by plot.py at 2019-07-12 18:43:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.39 Mbit/s  
95th percentile per-packet one-way delay: 110.013 ms  
Loss rate: 0.53%  
-- Flow 1:  
Average throughput: 6.95 Mbit/s  
95th percentile per-packet one-way delay: 109.836 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 5.33 Mbit/s  
95th percentile per-packet one-way delay: 110.054 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 3.60 Mbit/s  
95th percentile per-packet one-way delay: 110.730 ms  
Loss rate: 3.00%

Run 5: Report of Indigo-MusesC3 — Data Link

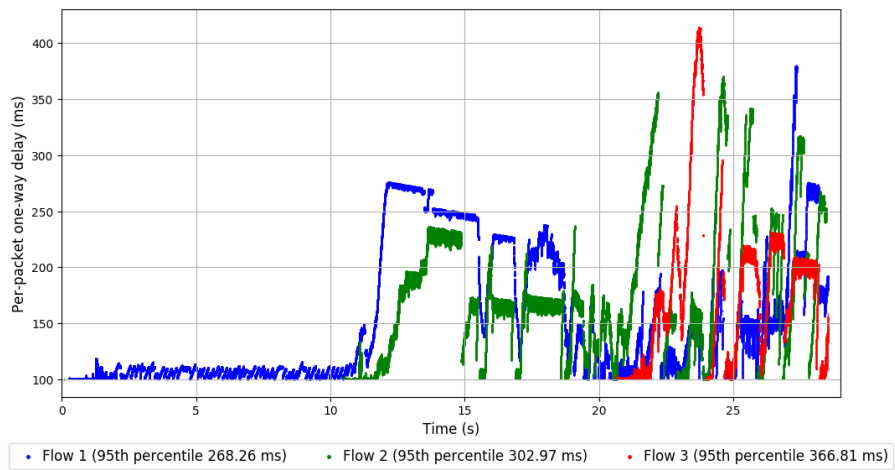
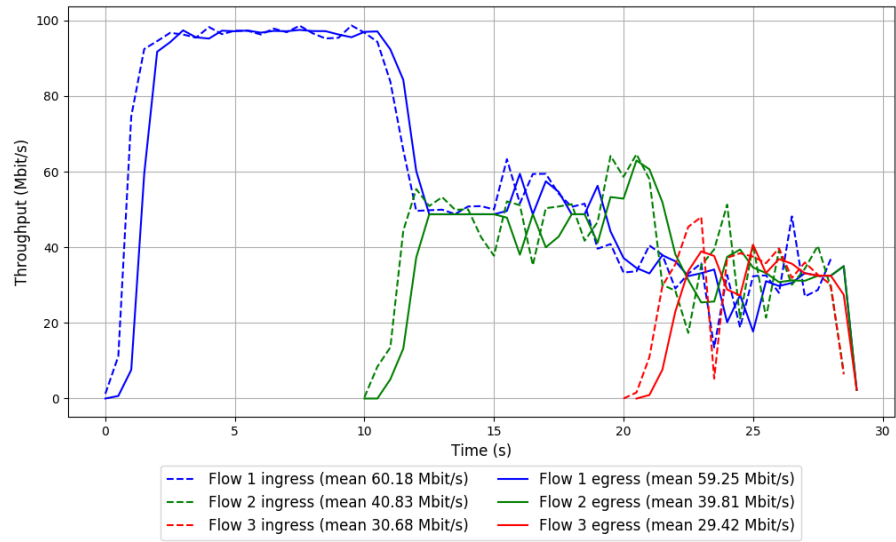


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-07-12 16:08:24  
End at: 2019-07-12 16:08:54  
Local clock offset: -3.673 ms  
Remote clock offset: -13.267 ms

# Below is generated by plot.py at 2019-07-12 18:43:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.99 Mbit/s  
95th percentile per-packet one-way delay: 271.121 ms  
Loss rate: 2.60%  
-- Flow 1:  
Average throughput: 59.25 Mbit/s  
95th percentile per-packet one-way delay: 268.258 ms  
Loss rate: 1.75%  
-- Flow 2:  
Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 302.967 ms  
Loss rate: 3.39%  
-- Flow 3:  
Average throughput: 29.42 Mbit/s  
95th percentile per-packet one-way delay: 366.807 ms  
Loss rate: 5.98%

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



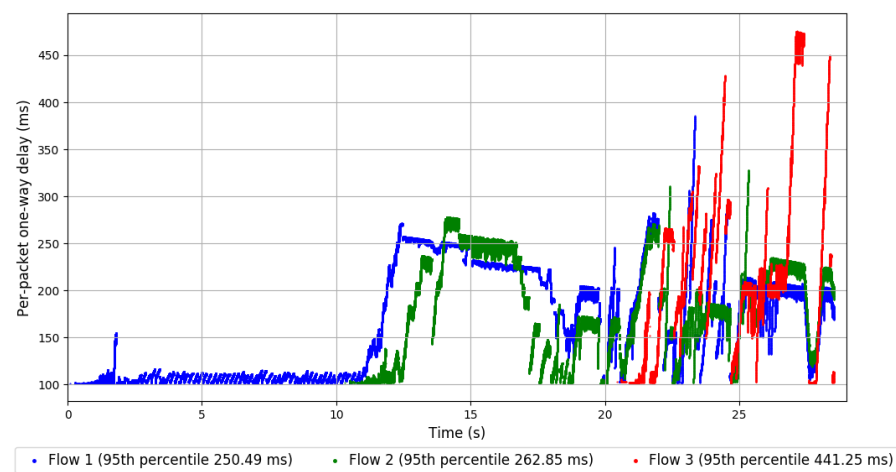
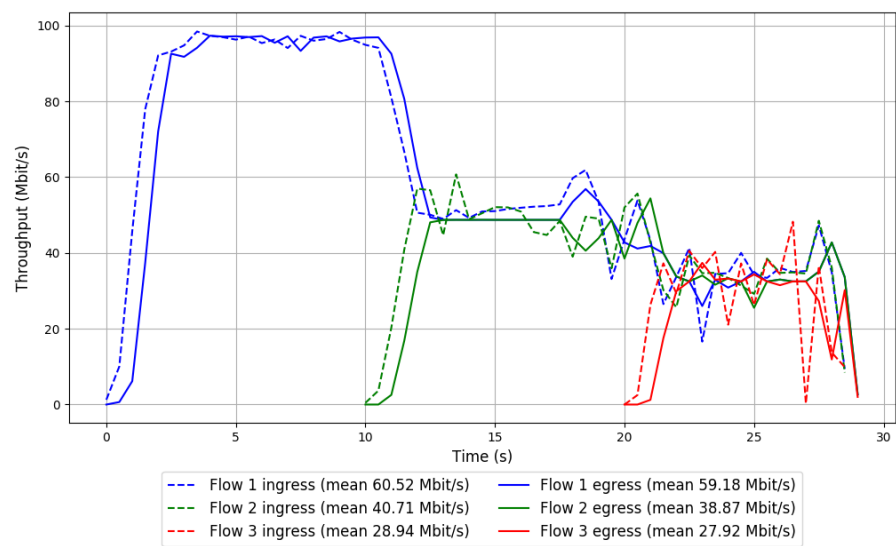


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-07-12 16:40:03  
End at: 2019-07-12 16:40:33  
Local clock offset: 1.315 ms  
Remote clock offset: -9.086 ms

# Below is generated by plot.py at 2019-07-12 18:43:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.01 Mbit/s  
95th percentile per-packet one-way delay: 261.391 ms  
Loss rate: 3.75%  
-- Flow 1:  
Average throughput: 59.18 Mbit/s  
95th percentile per-packet one-way delay: 250.487 ms  
Loss rate: 2.81%  
-- Flow 2:  
Average throughput: 38.87 Mbit/s  
95th percentile per-packet one-way delay: 262.845 ms  
Loss rate: 5.37%  
-- Flow 3:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 441.250 ms  
Loss rate: 5.50%

Run 2: Report of Indigo-MusesC5 — Data Link

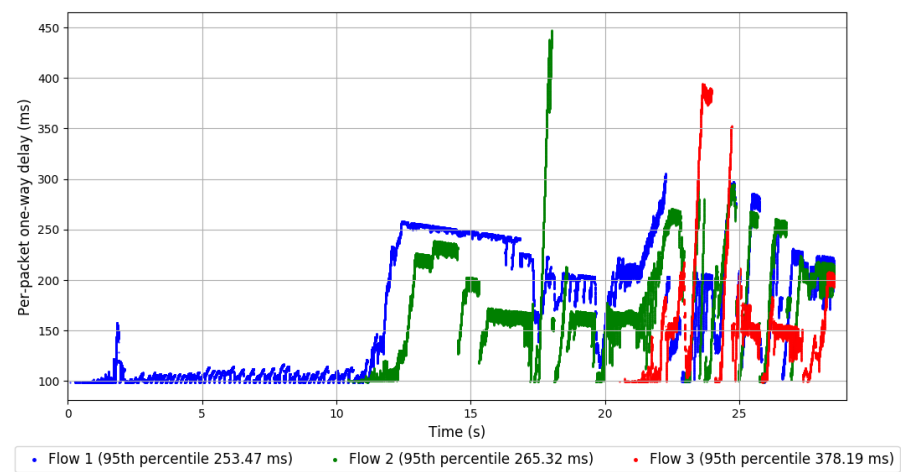
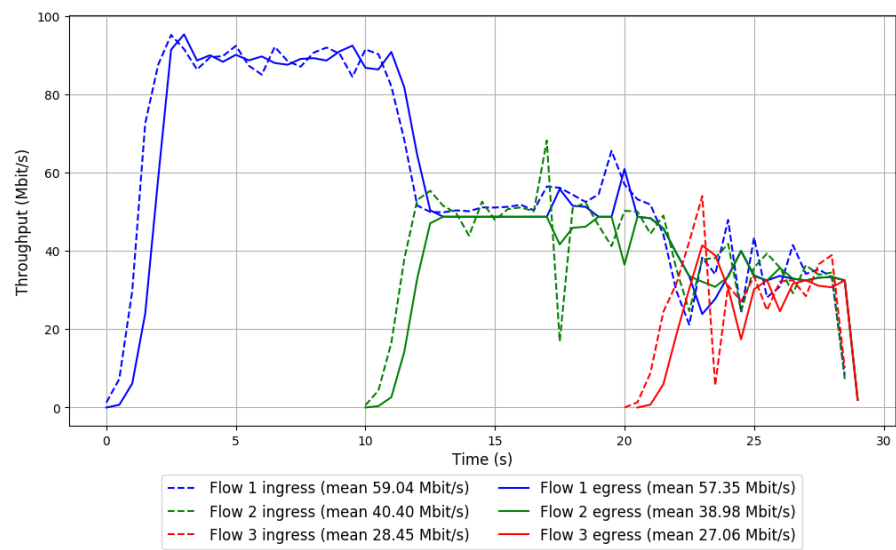


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-07-12 17:11:15  
End at: 2019-07-12 17:11:45  
Local clock offset: -3.301 ms  
Remote clock offset: -4.018 ms

# Below is generated by plot.py at 2019-07-12 18:43:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.98 Mbit/s  
95th percentile per-packet one-way delay: 256.189 ms  
Loss rate: 4.01%  
-- Flow 1:  
Average throughput: 57.35 Mbit/s  
95th percentile per-packet one-way delay: 253.475 ms  
Loss rate: 3.43%  
-- Flow 2:  
Average throughput: 38.98 Mbit/s  
95th percentile per-packet one-way delay: 265.324 ms  
Loss rate: 4.42%  
-- Flow 3:  
Average throughput: 27.06 Mbit/s  
95th percentile per-packet one-way delay: 378.190 ms  
Loss rate: 6.93%

Run 3: Report of Indigo-MusesC5 — Data Link

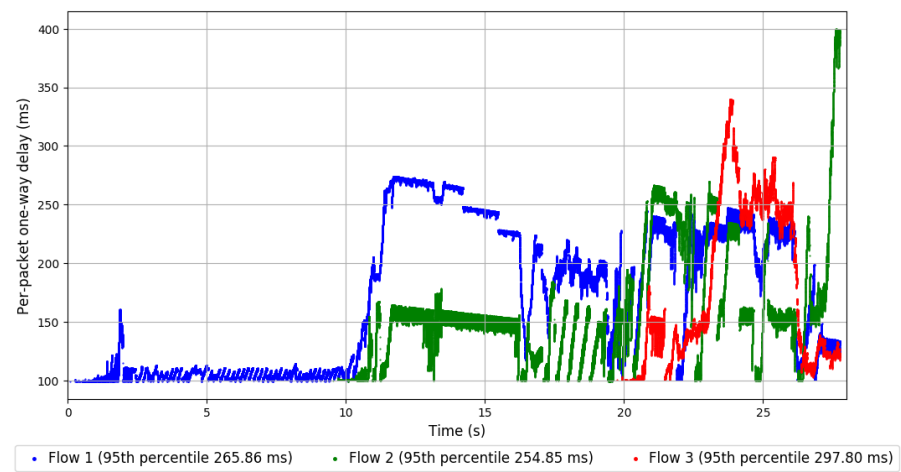
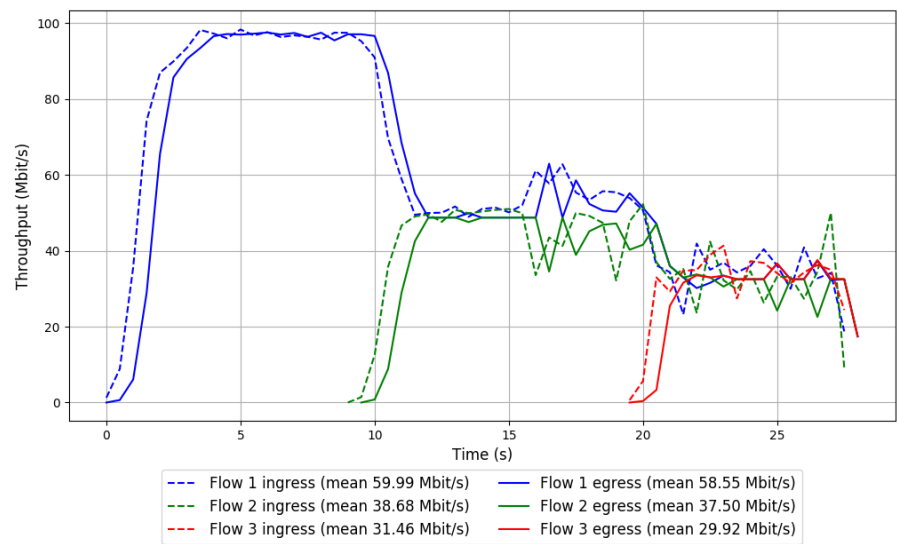


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-07-12 17:42:24  
End at: 2019-07-12 17:42:54  
Local clock offset: -2.539 ms  
Remote clock offset: -2.172 ms

# Below is generated by plot.py at 2019-07-12 18:43:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.92 Mbit/s  
95th percentile per-packet one-way delay: 265.726 ms  
Loss rate: 3.64%  
-- Flow 1:  
Average throughput: 58.55 Mbit/s  
95th percentile per-packet one-way delay: 265.856 ms  
Loss rate: 3.00%  
-- Flow 2:  
Average throughput: 37.50 Mbit/s  
95th percentile per-packet one-way delay: 254.854 ms  
Loss rate: 3.98%  
-- Flow 3:  
Average throughput: 29.92 Mbit/s  
95th percentile per-packet one-way delay: 297.804 ms  
Loss rate: 6.89%

Run 4: Report of Indigo-MusesC5 — Data Link

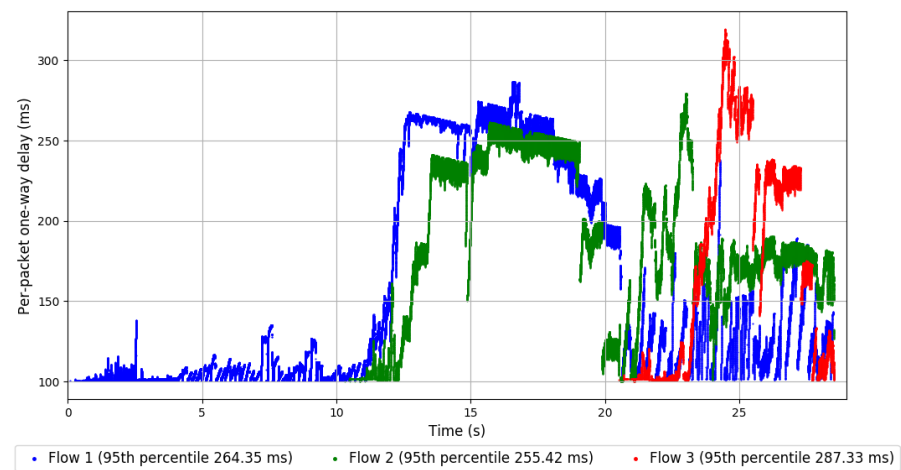
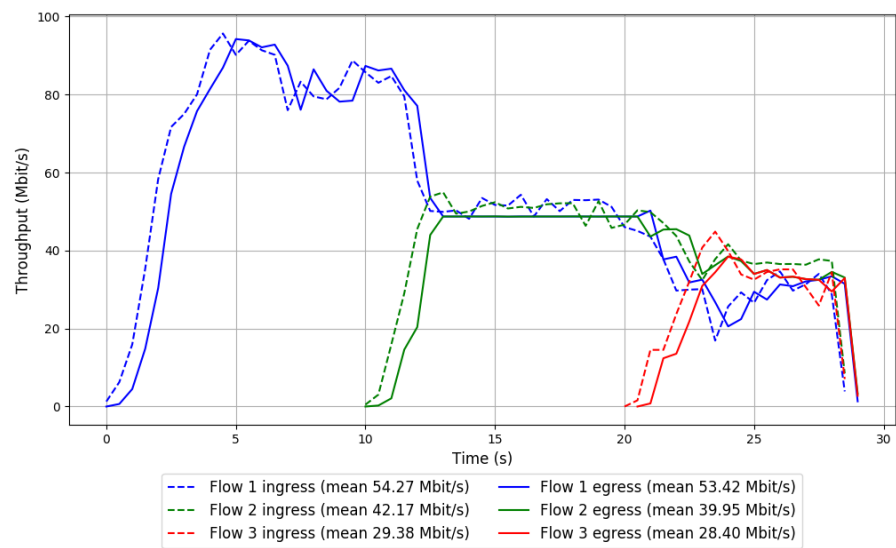


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-07-12 18:14:24  
End at: 2019-07-12 18:14:54  
Local clock offset: -3.253 ms  
Remote clock offset: -2.057 ms

# Below is generated by plot.py at 2019-07-12 18:43:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.04 Mbit/s  
95th percentile per-packet one-way delay: 264.083 ms  
Loss rate: 3.58%  
-- Flow 1:  
Average throughput: 53.42 Mbit/s  
95th percentile per-packet one-way delay: 264.354 ms  
Loss rate: 2.09%  
-- Flow 2:  
Average throughput: 39.95 Mbit/s  
95th percentile per-packet one-way delay: 255.424 ms  
Loss rate: 6.05%  
-- Flow 3:  
Average throughput: 28.40 Mbit/s  
95th percentile per-packet one-way delay: 287.335 ms  
Loss rate: 5.26%

Run 5: Report of Indigo-MusesC5 — Data Link



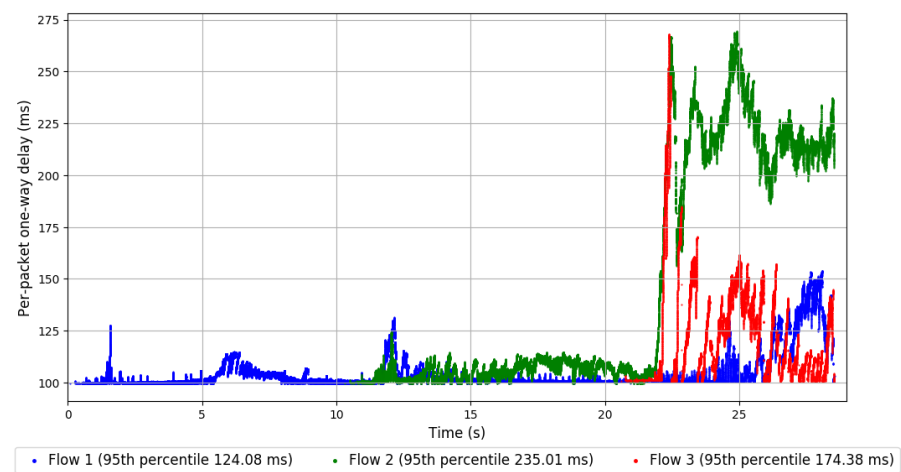
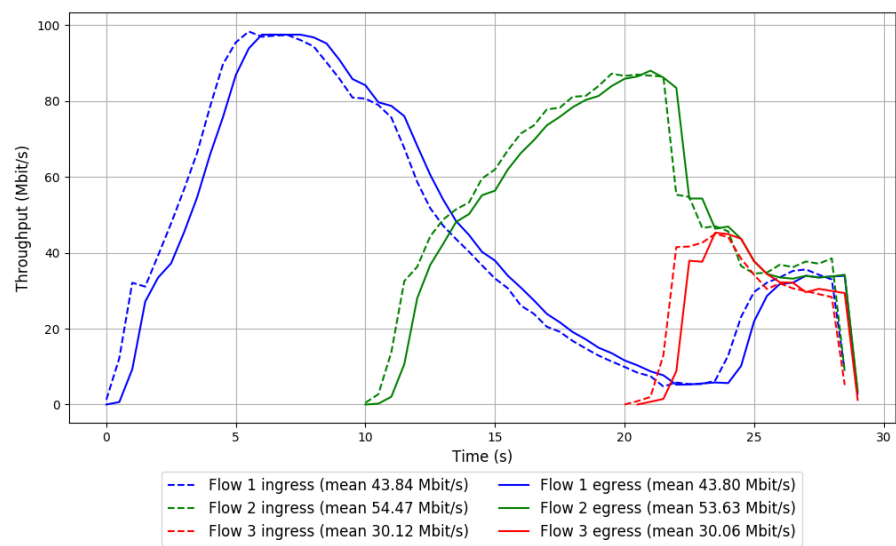


Run 1: Statistics of Indigo-MusesD

Start at: 2019-07-12 16:16:17  
End at: 2019-07-12 16:16:47  
Local clock offset: -1.147 ms  
Remote clock offset: -12.026 ms

# Below is generated by plot.py at 2019-07-12 18:43:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.55 Mbit/s  
95th percentile per-packet one-way delay: 219.102 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 43.80 Mbit/s  
95th percentile per-packet one-way delay: 124.075 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 53.63 Mbit/s  
95th percentile per-packet one-way delay: 235.007 ms  
Loss rate: 2.44%  
-- Flow 3:  
Average throughput: 30.06 Mbit/s  
95th percentile per-packet one-way delay: 174.379 ms  
Loss rate: 2.32%

Run 1: Report of Indigo-MusesD — Data Link

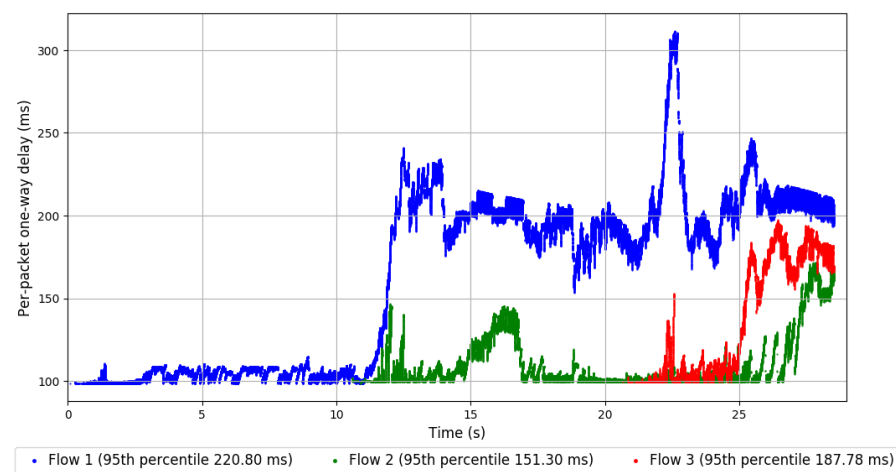
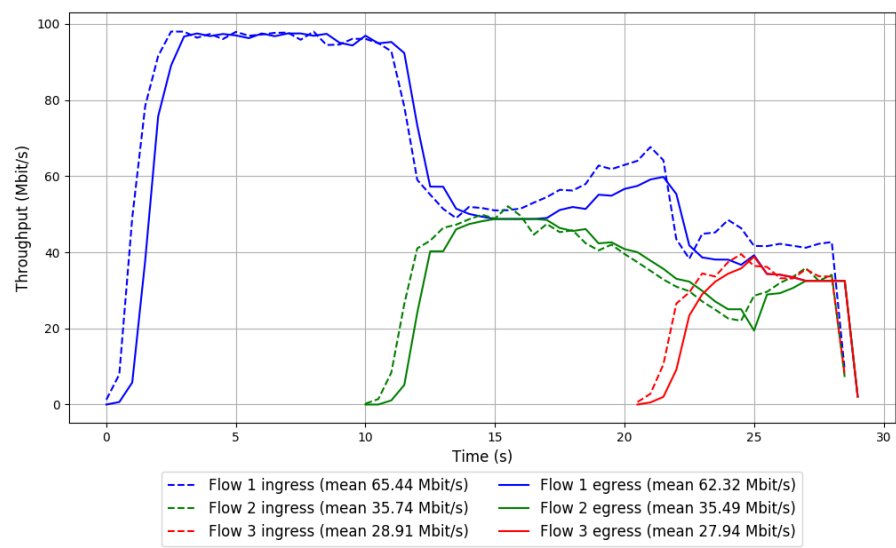


Run 2: Statistics of Indigo-MusesD

Start at: 2019-07-12 16:47:55  
End at: 2019-07-12 16:48:25  
Local clock offset: 0.834 ms  
Remote clock offset: -6.086 ms

# Below is generated by plot.py at 2019-07-12 18:43:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.64 Mbit/s  
95th percentile per-packet one-way delay: 214.352 ms  
Loss rate: 4.46%  
-- Flow 1:  
Average throughput: 62.32 Mbit/s  
95th percentile per-packet one-way delay: 220.804 ms  
Loss rate: 5.33%  
-- Flow 2:  
Average throughput: 35.49 Mbit/s  
95th percentile per-packet one-way delay: 151.298 ms  
Loss rate: 1.60%  
-- Flow 3:  
Average throughput: 27.94 Mbit/s  
95th percentile per-packet one-way delay: 187.783 ms  
Loss rate: 5.44%

Run 2: Report of Indigo-MusesD — Data Link

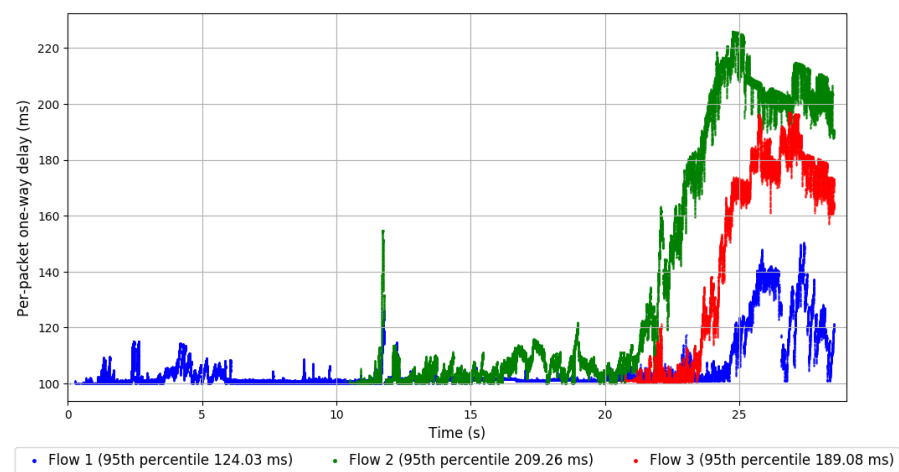
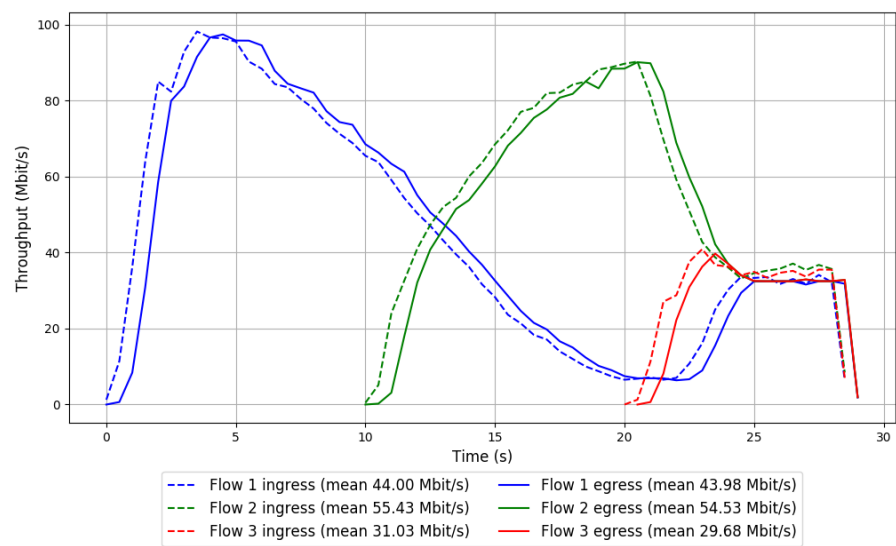


Run 3: Statistics of Indigo-MusesD

Start at: 2019-07-12 17:19:08  
End at: 2019-07-12 17:19:38  
Local clock offset: -3.668 ms  
Remote clock offset: -4.377 ms

# Below is generated by plot.py at 2019-07-12 18:43:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.21 Mbit/s  
95th percentile per-packet one-way delay: 199.941 ms  
Loss rate: 1.99%  
-- Flow 1:  
Average throughput: 43.98 Mbit/s  
95th percentile per-packet one-way delay: 124.030 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 54.53 Mbit/s  
95th percentile per-packet one-way delay: 209.264 ms  
Loss rate: 2.54%  
-- Flow 3:  
Average throughput: 29.68 Mbit/s  
95th percentile per-packet one-way delay: 189.078 ms  
Loss rate: 6.42%

Run 3: Report of Indigo-MusesD — Data Link

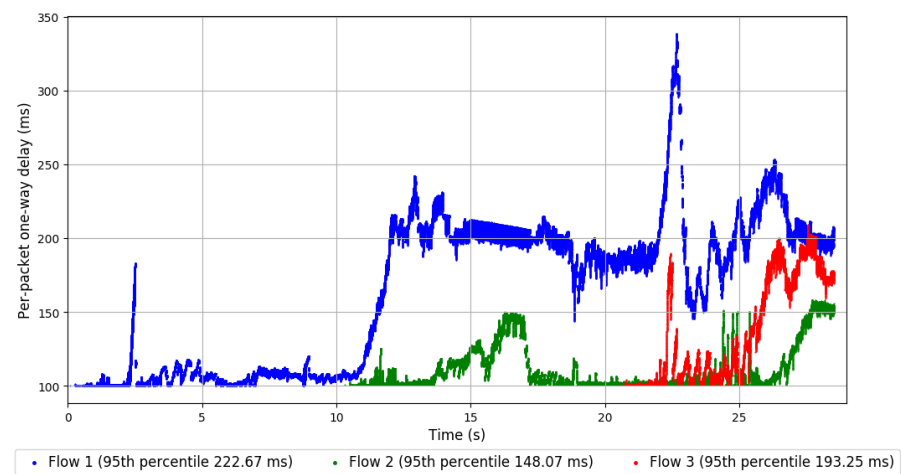
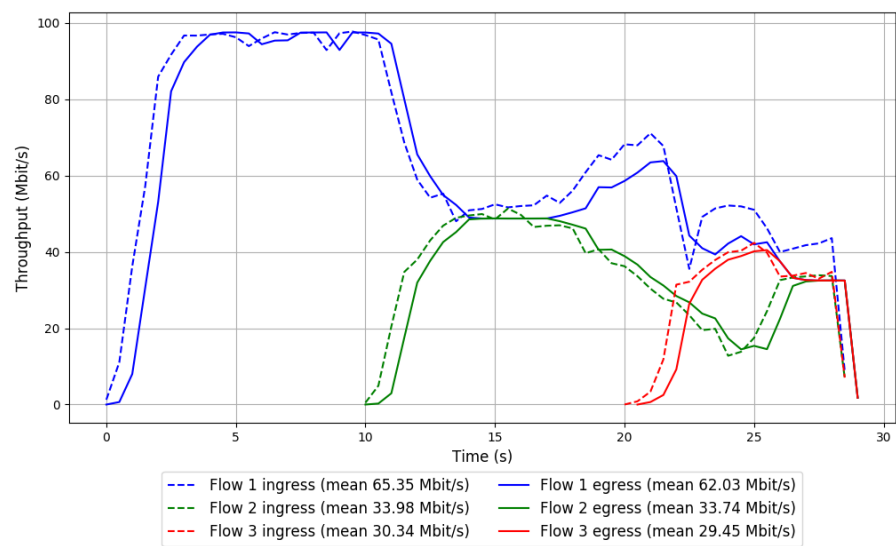


Run 4: Statistics of Indigo-MusesD

Start at: 2019-07-12 17:50:10  
End at: 2019-07-12 17:50:40  
Local clock offset: -3.363 ms  
Remote clock offset: -3.464 ms

# Below is generated by plot.py at 2019-07-12 18:44:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.87 Mbit/s  
95th percentile per-packet one-way delay: 214.121 ms  
Loss rate: 4.67%  
-- Flow 1:  
Average throughput: 62.03 Mbit/s  
95th percentile per-packet one-way delay: 222.669 ms  
Loss rate: 5.64%  
-- Flow 2:  
Average throughput: 33.74 Mbit/s  
95th percentile per-packet one-way delay: 148.074 ms  
Loss rate: 1.62%  
-- Flow 3:  
Average throughput: 29.45 Mbit/s  
95th percentile per-packet one-way delay: 193.254 ms  
Loss rate: 5.00%

Run 4: Report of Indigo-MusesD — Data Link



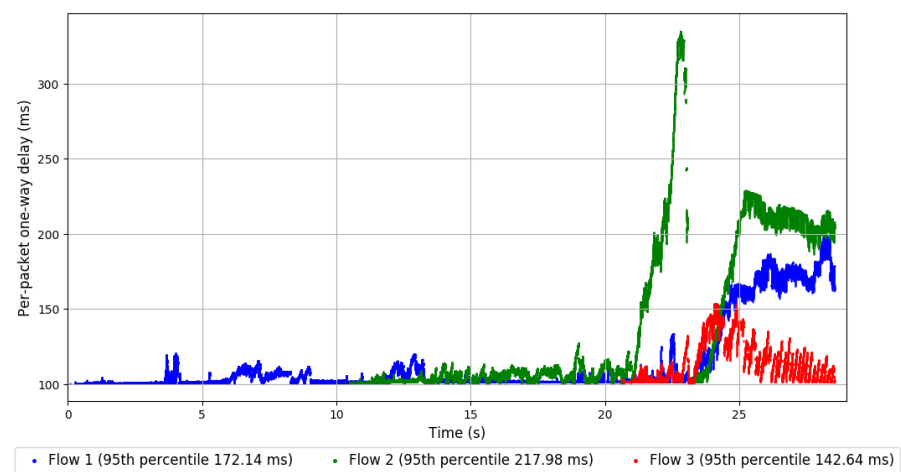
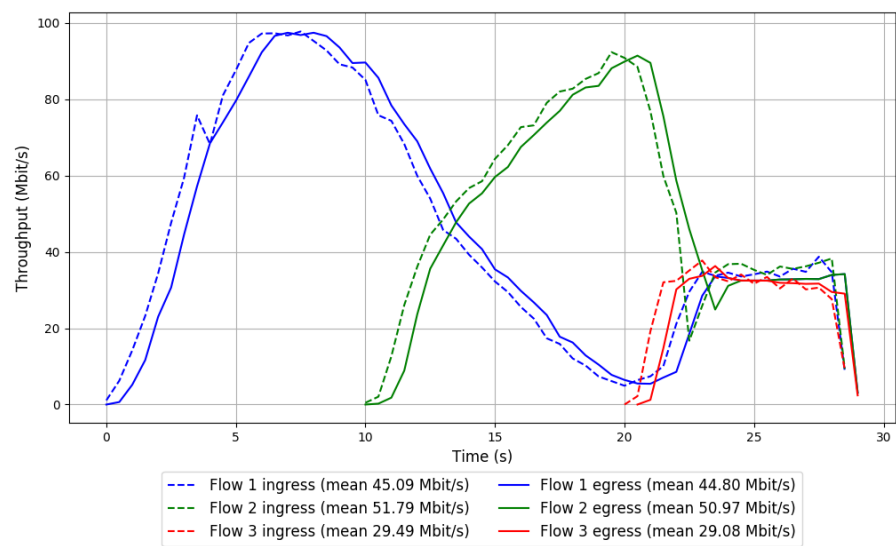


Run 5: Statistics of Indigo-MusesD

Start at: 2019-07-12 18:22:14  
End at: 2019-07-12 18:22:44  
Local clock offset: -2.788 ms  
Remote clock offset: -1.397 ms

# Below is generated by plot.py at 2019-07-12 18:44:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.66 Mbit/s  
95th percentile per-packet one-way delay: 206.213 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 44.80 Mbit/s  
95th percentile per-packet one-way delay: 172.142 ms  
Loss rate: 1.26%  
-- Flow 2:  
Average throughput: 50.97 Mbit/s  
95th percentile per-packet one-way delay: 217.981 ms  
Loss rate: 2.52%  
-- Flow 3:  
Average throughput: 29.08 Mbit/s  
95th percentile per-packet one-way delay: 142.638 ms  
Loss rate: 3.49%

Run 5: Report of Indigo-MusesD — Data Link

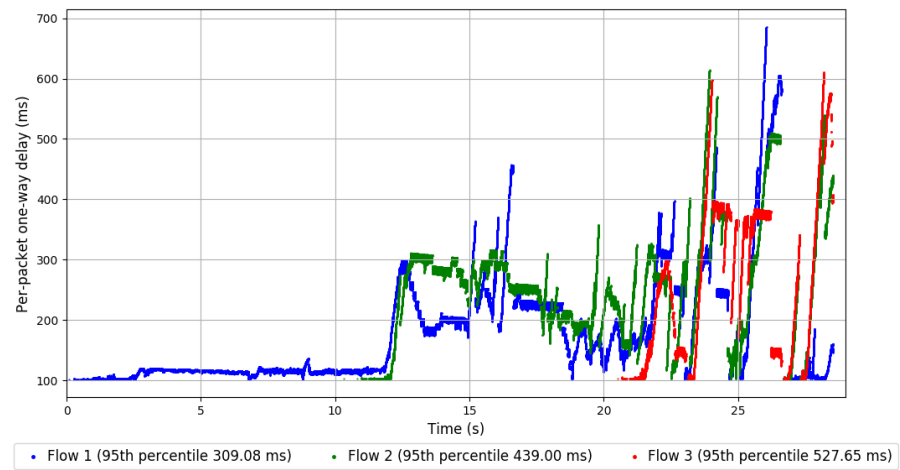
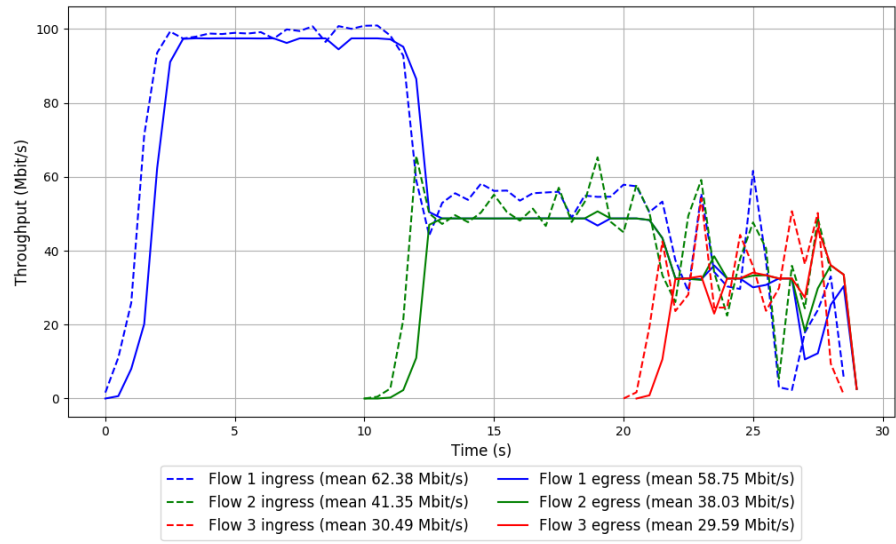


Run 1: Statistics of Indigo-MusesT

Start at: 2019-07-12 16:12:23  
End at: 2019-07-12 16:12:53  
Local clock offset: -1.685 ms  
Remote clock offset: -14.179 ms

# Below is generated by plot.py at 2019-07-12 18:44:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.48 Mbit/s  
95th percentile per-packet one-way delay: 389.833 ms  
Loss rate: 6.77%  
-- Flow 1:  
Average throughput: 58.75 Mbit/s  
95th percentile per-packet one-way delay: 309.079 ms  
Loss rate: 6.39%  
-- Flow 2:  
Average throughput: 38.03 Mbit/s  
95th percentile per-packet one-way delay: 439.002 ms  
Loss rate: 8.26%  
-- Flow 3:  
Average throughput: 29.59 Mbit/s  
95th percentile per-packet one-way delay: 527.648 ms  
Loss rate: 4.96%

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

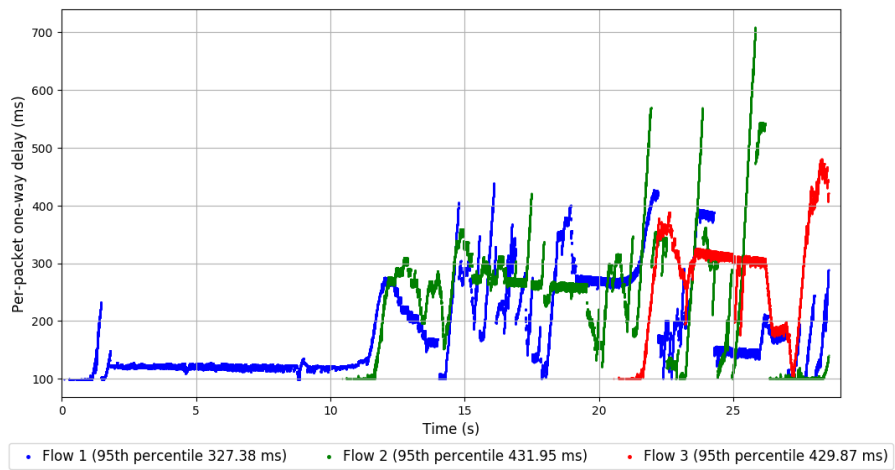
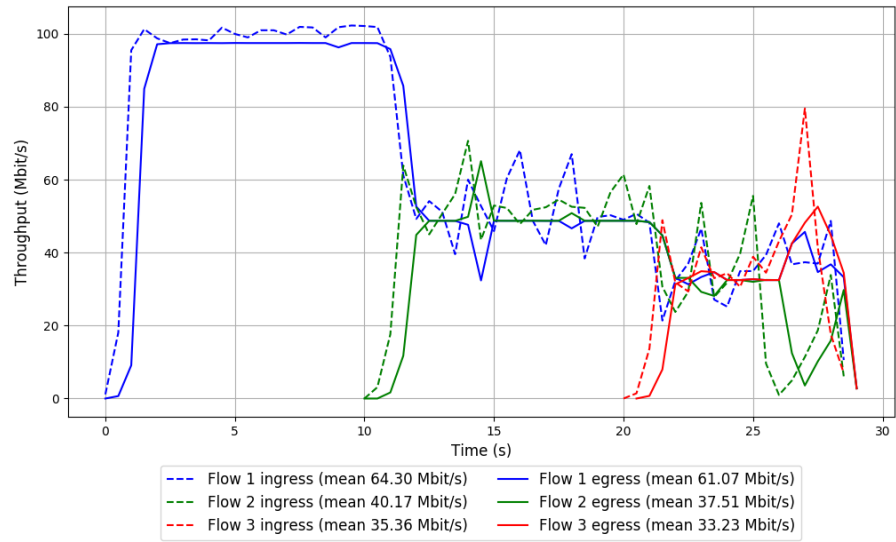


Run 2: Statistics of Indigo-MusesT

Start at: 2019-07-12 16:44:01  
End at: 2019-07-12 16:44:31  
Local clock offset: 1.285 ms  
Remote clock offset: -6.464 ms

# Below is generated by plot.py at 2019-07-12 18:44:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.29 Mbit/s  
95th percentile per-packet one-way delay: 365.292 ms  
Loss rate: 6.24%  
-- Flow 1:  
Average throughput: 61.07 Mbit/s  
95th percentile per-packet one-way delay: 327.381 ms  
Loss rate: 5.47%  
-- Flow 2:  
Average throughput: 37.51 Mbit/s  
95th percentile per-packet one-way delay: 431.948 ms  
Loss rate: 7.43%  
-- Flow 3:  
Average throughput: 33.23 Mbit/s  
95th percentile per-packet one-way delay: 429.865 ms  
Loss rate: 8.05%

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

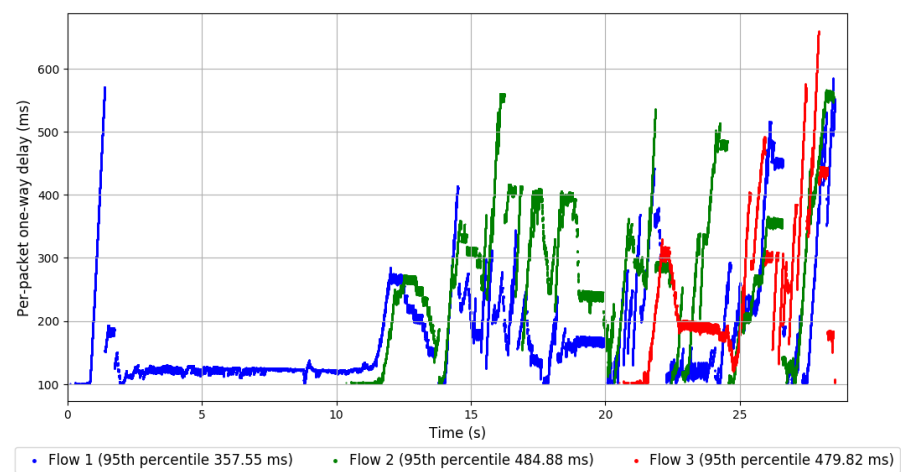
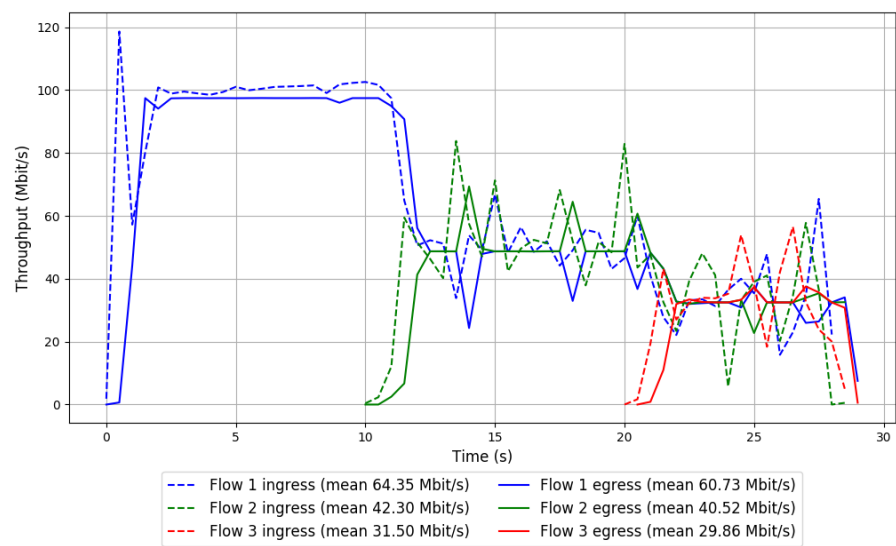


Run 3: Statistics of Indigo-MusesT

Start at: 2019-07-12 17:15:12  
End at: 2019-07-12 17:15:42  
Local clock offset: -3.751 ms  
Remote clock offset: -6.476 ms

# Below is generated by plot.py at 2019-07-12 18:44:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.01 Mbit/s  
95th percentile per-packet one-way delay: 438.198 ms  
Loss rate: 5.63%  
-- Flow 1:  
Average throughput: 60.73 Mbit/s  
95th percentile per-packet one-way delay: 357.548 ms  
Loss rate: 5.52%  
-- Flow 2:  
Average throughput: 40.52 Mbit/s  
95th percentile per-packet one-way delay: 484.878 ms  
Loss rate: 5.37%  
-- Flow 3:  
Average throughput: 29.86 Mbit/s  
95th percentile per-packet one-way delay: 479.818 ms  
Loss rate: 7.20%

Run 3: Report of Indigo-MusesT — Data Link





Run 4: Statistics of Indigo-MusesT

Start at: 2019-07-12 17:46:18

End at: 2019-07-12 17:46:48

Local clock offset: -3.212 ms

Remote clock offset: -3.73 ms

# Below is generated by plot.py at 2019-07-12 18:44:53

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.53 Mbit/s

95th percentile per-packet one-way delay: 416.341 ms

Loss rate: 5.47%

-- Flow 1:

Average throughput: 59.05 Mbit/s

95th percentile per-packet one-way delay: 294.055 ms

Loss rate: 5.55%

-- Flow 2:

Average throughput: 41.25 Mbit/s

95th percentile per-packet one-way delay: 470.629 ms

Loss rate: 5.91%

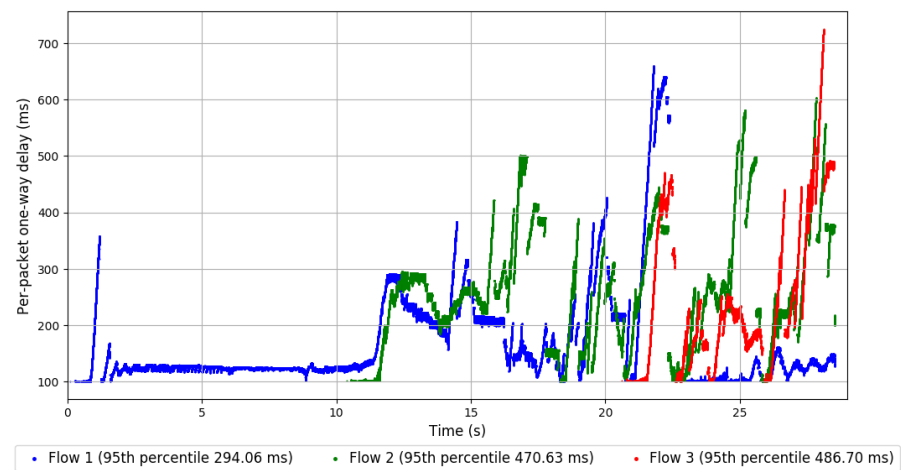
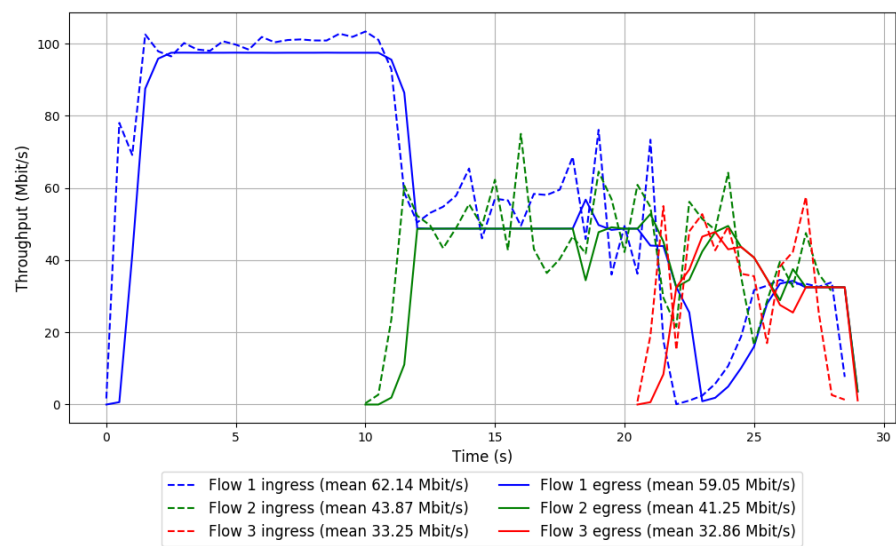
-- Flow 3:

Average throughput: 32.86 Mbit/s

95th percentile per-packet one-way delay: 486.701 ms

Loss rate: 3.62%

Run 4: Report of Indigo-MusesT — Data Link

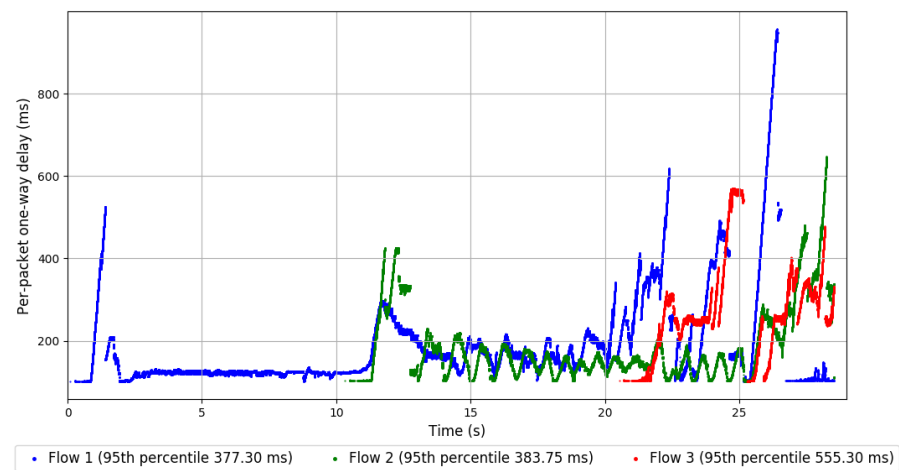
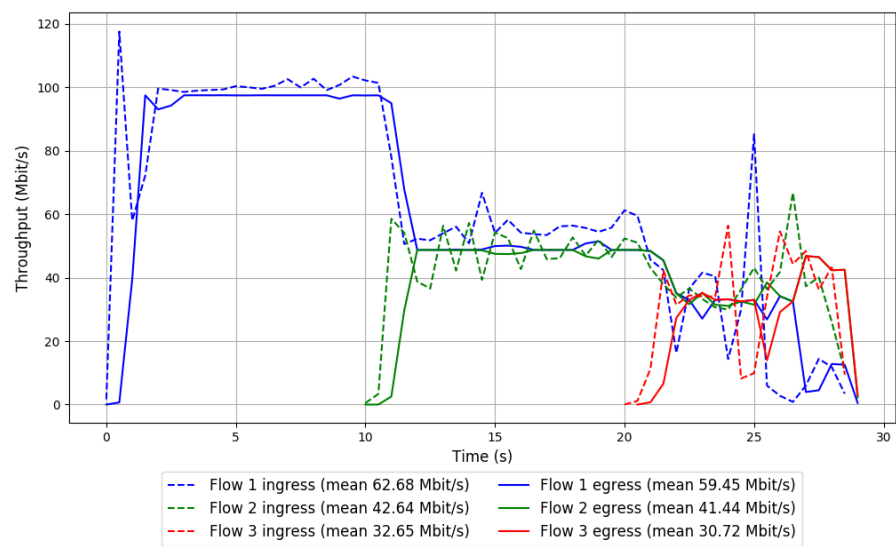


Run 5: Statistics of Indigo-MusesT

Start at: 2019-07-12 18:18:22  
End at: 2019-07-12 18:18:52  
Local clock offset: -2.502 ms  
Remote clock offset: -2.536 ms

# Below is generated by plot.py at 2019-07-12 18:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.61 Mbit/s  
95th percentile per-packet one-way delay: 392.723 ms  
Loss rate: 5.42%  
-- Flow 1:  
Average throughput: 59.45 Mbit/s  
95th percentile per-packet one-way delay: 377.301 ms  
Loss rate: 5.76%  
-- Flow 2:  
Average throughput: 41.44 Mbit/s  
95th percentile per-packet one-way delay: 383.749 ms  
Loss rate: 3.78%  
-- Flow 3:  
Average throughput: 30.72 Mbit/s  
95th percentile per-packet one-way delay: 555.296 ms  
Loss rate: 7.91%

Run 5: Report of Indigo-MusesT — Data Link

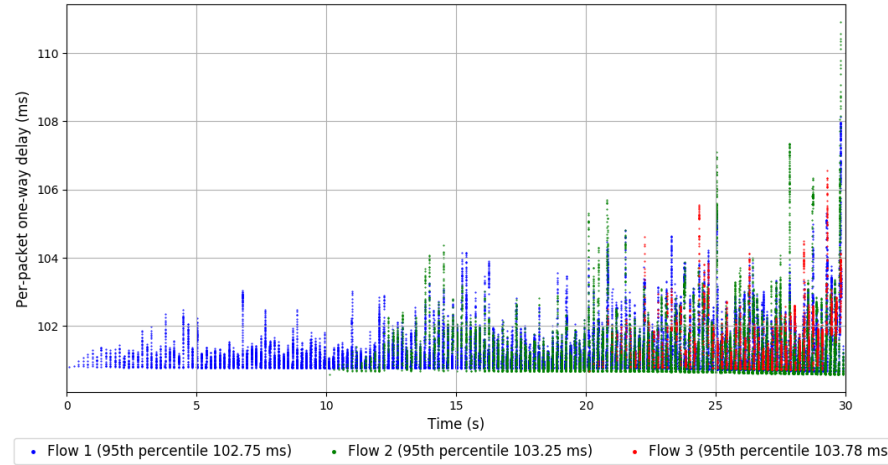
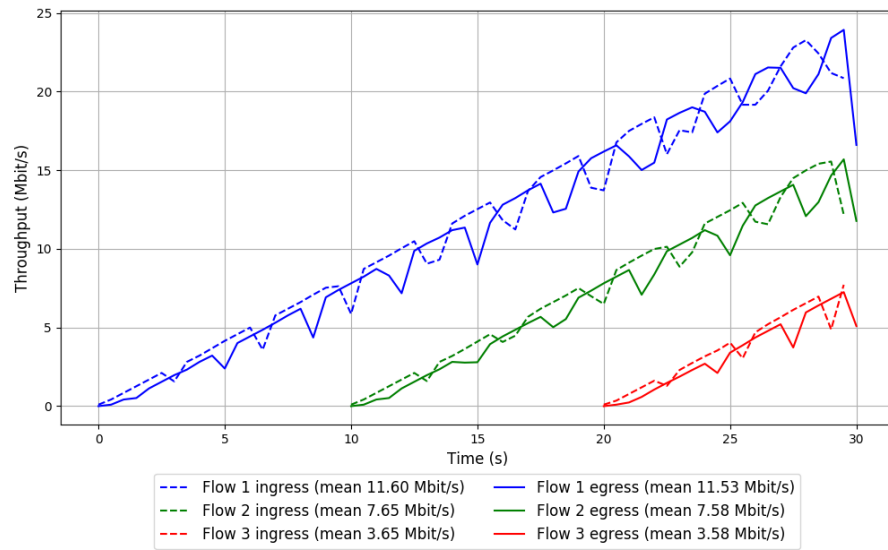


Run 1: Statistics of LEDBAT

Start at: 2019-07-12 15:58:00  
End at: 2019-07-12 15:58:30  
Local clock offset: -7.97 ms  
Remote clock offset: -12.889 ms

# Below is generated by plot.py at 2019-07-12 18:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.73 Mbit/s  
95th percentile per-packet one-way delay: 102.967 ms  
Loss rate: 1.51%  
-- Flow 1:  
Average throughput: 11.53 Mbit/s  
95th percentile per-packet one-way delay: 102.752 ms  
Loss rate: 1.18%  
-- Flow 2:  
Average throughput: 7.58 Mbit/s  
95th percentile per-packet one-way delay: 103.255 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 3.58 Mbit/s  
95th percentile per-packet one-way delay: 103.781 ms  
Loss rate: 3.65%

# Run 1: Report of LEDBAT — Data Link

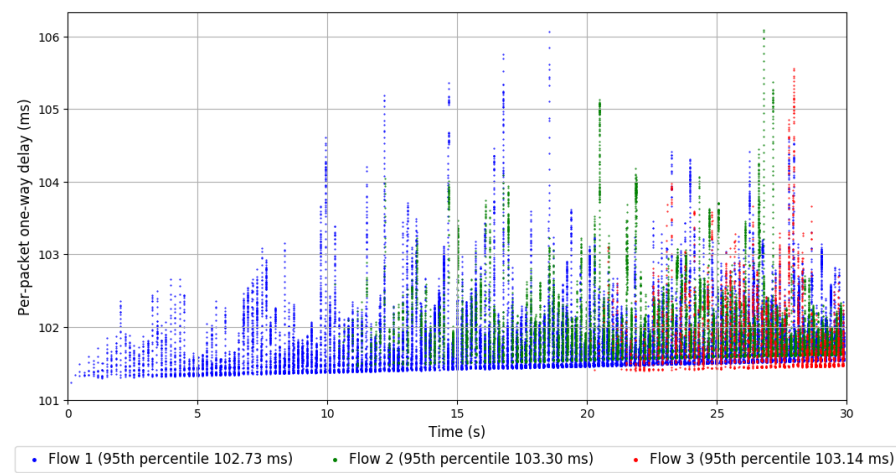
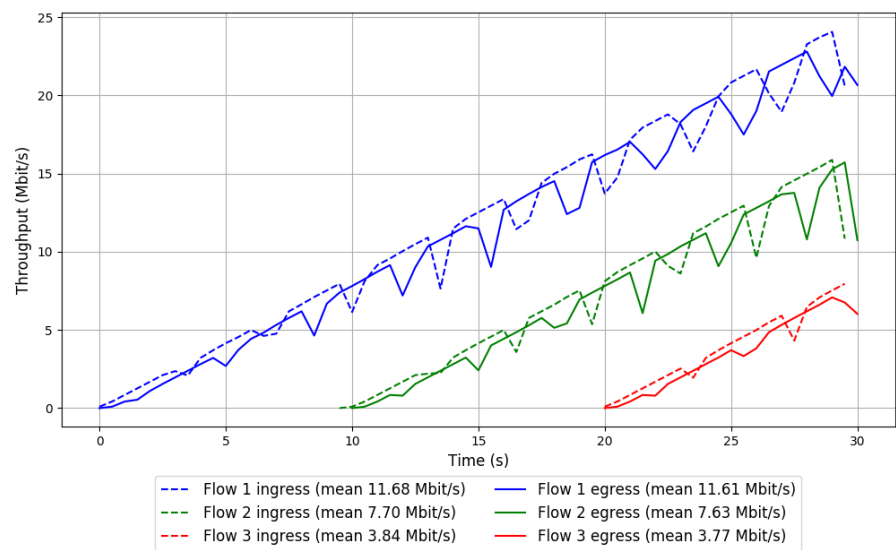


Run 2: Statistics of LEDBAT

Start at: 2019-07-12 16:29:28  
End at: 2019-07-12 16:29:58  
Local clock offset: 0.239 ms  
Remote clock offset: -13.294 ms

# Below is generated by plot.py at 2019-07-12 18:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.89 Mbit/s  
95th percentile per-packet one-way delay: 102.911 ms  
Loss rate: 1.49%  
-- Flow 1:  
Average throughput: 11.61 Mbit/s  
95th percentile per-packet one-way delay: 102.727 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 7.63 Mbit/s  
95th percentile per-packet one-way delay: 103.302 ms  
Loss rate: 1.78%  
-- Flow 3:  
Average throughput: 3.77 Mbit/s  
95th percentile per-packet one-way delay: 103.142 ms  
Loss rate: 3.54%

Run 2: Report of LEDBAT — Data Link



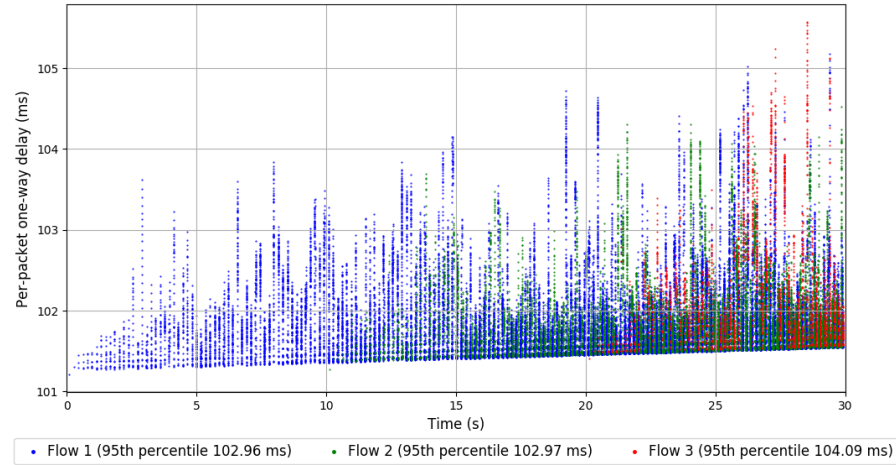
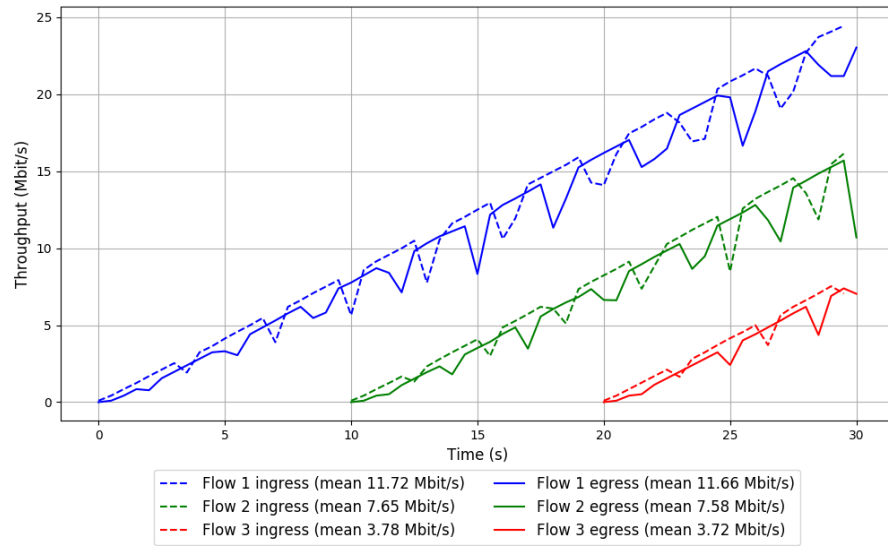


Run 3: Statistics of LEDBAT

Start at: 2019-07-12 17:00:49  
End at: 2019-07-12 17:01:19  
Local clock offset: 0.509 ms  
Remote clock offset: -7.016 ms

# Below is generated by plot.py at 2019-07-12 18:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.89 Mbit/s  
95th percentile per-packet one-way delay: 103.060 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 11.66 Mbit/s  
95th percentile per-packet one-way delay: 102.963 ms  
Loss rate: 1.16%  
-- Flow 2:  
Average throughput: 7.58 Mbit/s  
95th percentile per-packet one-way delay: 102.970 ms  
Loss rate: 1.79%  
-- Flow 3:  
Average throughput: 3.72 Mbit/s  
95th percentile per-packet one-way delay: 104.091 ms  
Loss rate: 3.42%

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

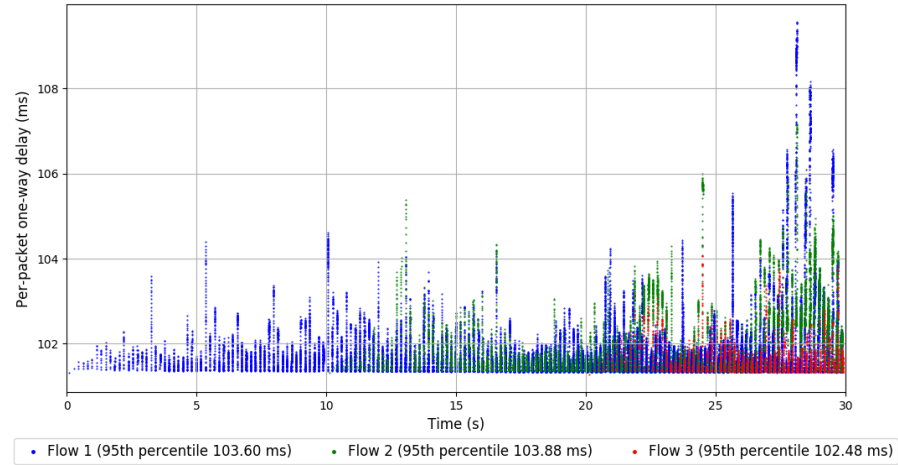
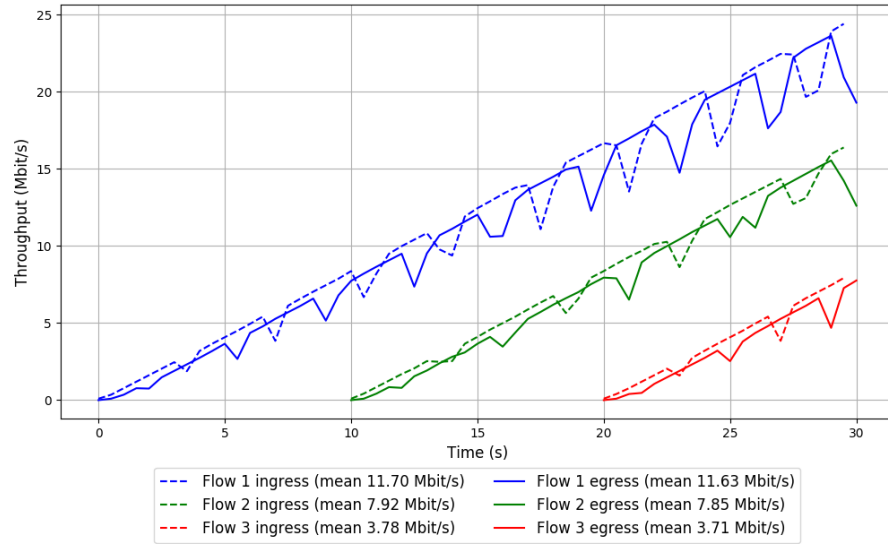


Run 4: Statistics of LEDBAT

Start at: 2019-07-12 17:32:00  
End at: 2019-07-12 17:32:30  
Local clock offset: -3.793 ms  
Remote clock offset: -5.346 ms

# Below is generated by plot.py at 2019-07-12 18:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.05 Mbit/s  
95th percentile per-packet one-way delay: 103.646 ms  
Loss rate: 1.50%  
-- Flow 1:  
Average throughput: 11.63 Mbit/s  
95th percentile per-packet one-way delay: 103.596 ms  
Loss rate: 1.17%  
-- Flow 2:  
Average throughput: 7.85 Mbit/s  
95th percentile per-packet one-way delay: 103.875 ms  
Loss rate: 1.75%  
-- Flow 3:  
Average throughput: 3.71 Mbit/s  
95th percentile per-packet one-way delay: 102.481 ms  
Loss rate: 3.58%

# Run 4: Report of LEDBAT — Data Link

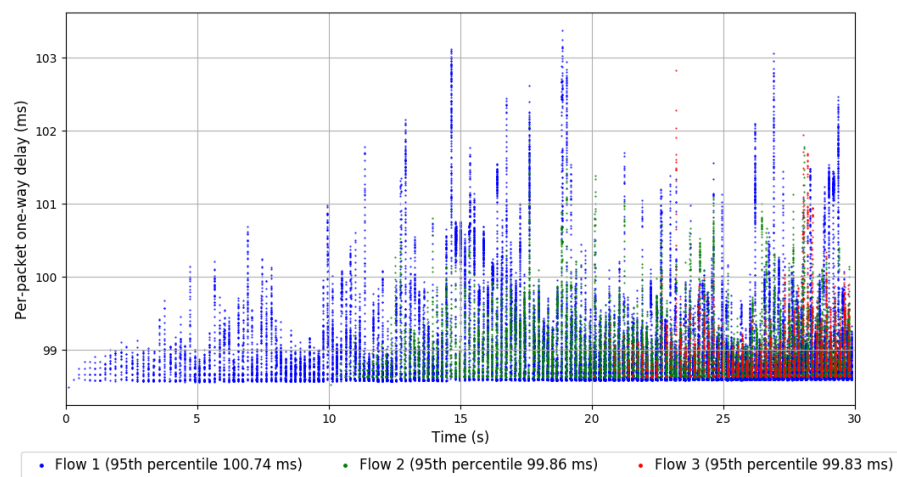
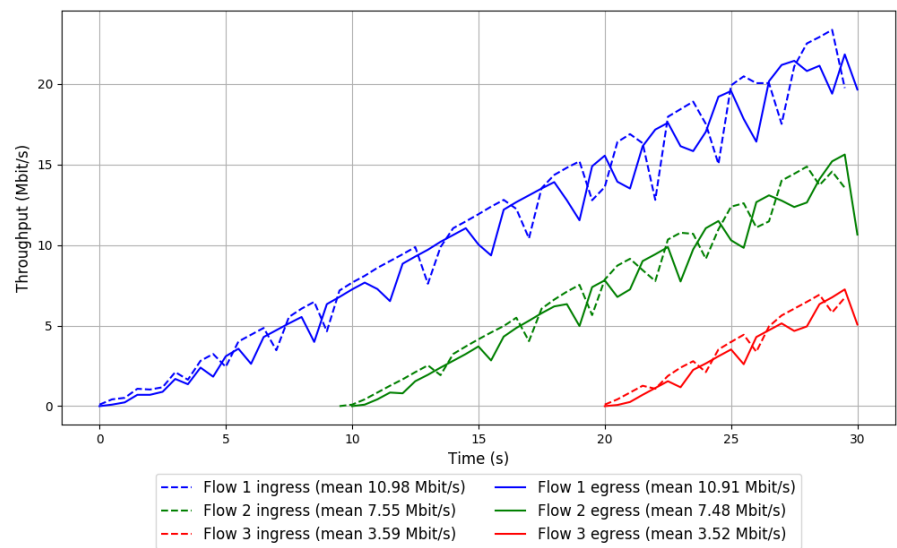


Run 5: Statistics of LEDBAT

Start at: 2019-07-12 18:03:07  
End at: 2019-07-12 18:03:37  
Local clock offset: -3.117 ms  
Remote clock offset: -1.076 ms

# Below is generated by plot.py at 2019-07-12 18:45:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.01 Mbit/s  
95th percentile per-packet one-way delay: 100.462 ms  
Loss rate: 1.55%  
-- Flow 1:  
Average throughput: 10.91 Mbit/s  
95th percentile per-packet one-way delay: 100.742 ms  
Loss rate: 1.21%  
-- Flow 2:  
Average throughput: 7.48 Mbit/s  
95th percentile per-packet one-way delay: 99.859 ms  
Loss rate: 1.80%  
-- Flow 3:  
Average throughput: 3.52 Mbit/s  
95th percentile per-packet one-way delay: 99.833 ms  
Loss rate: 3.68%

Run 5: Report of LEDBAT — Data Link

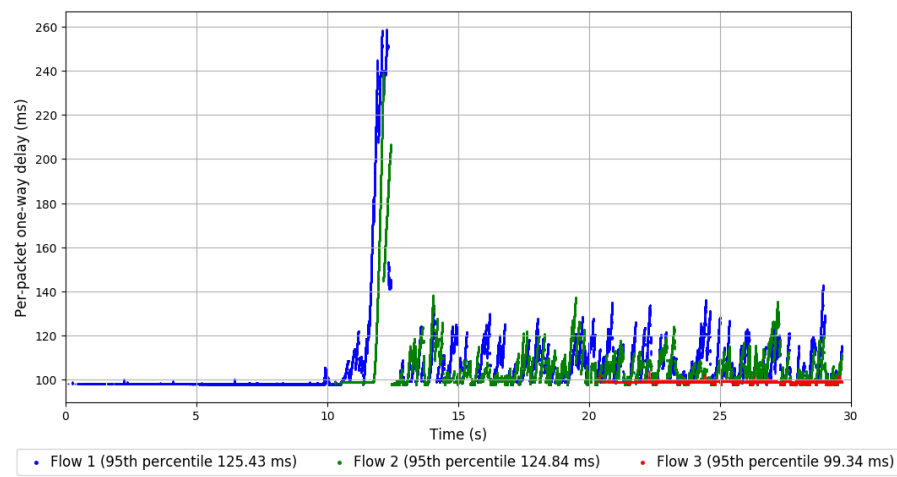
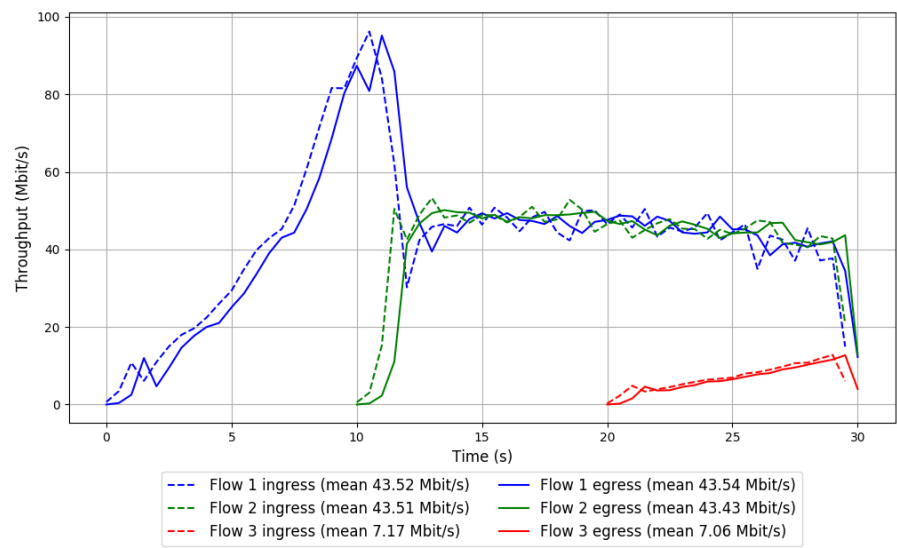


Run 1: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 16:05:49  
End at: 2019-07-12 16:06:19  
Local clock offset: -4.527 ms  
Remote clock offset: -11.084 ms

# Below is generated by plot.py at 2019-07-12 18:45:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.47 Mbit/s  
95th percentile per-packet one-way delay: 124.890 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 43.54 Mbit/s  
95th percentile per-packet one-way delay: 125.433 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 43.43 Mbit/s  
95th percentile per-packet one-way delay: 124.845 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 7.06 Mbit/s  
95th percentile per-packet one-way delay: 99.337 ms  
Loss rate: 3.34%

Run 1: Report of Muses\_DecisionTree — Data Link





Run 2: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 16:37:27

End at: 2019-07-12 16:37:57

Local clock offset: 0.319 ms

Remote clock offset: -8.65 ms

# Below is generated by plot.py at 2019-07-12 18:45:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 57.63 Mbit/s

95th percentile per-packet one-way delay: 119.413 ms

Loss rate: 1.06%

-- Flow 1:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 125.710 ms

Loss rate: 0.66%

-- Flow 2:

Average throughput: 25.41 Mbit/s

95th percentile per-packet one-way delay: 114.267 ms

Loss rate: 1.14%

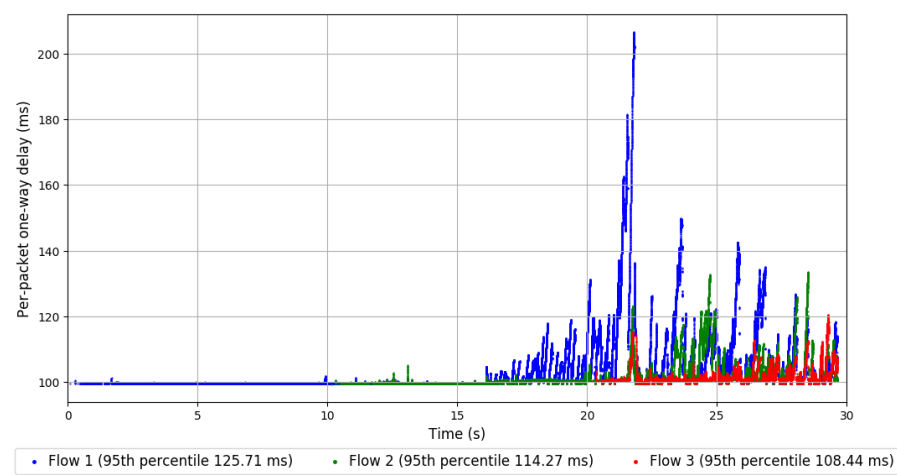
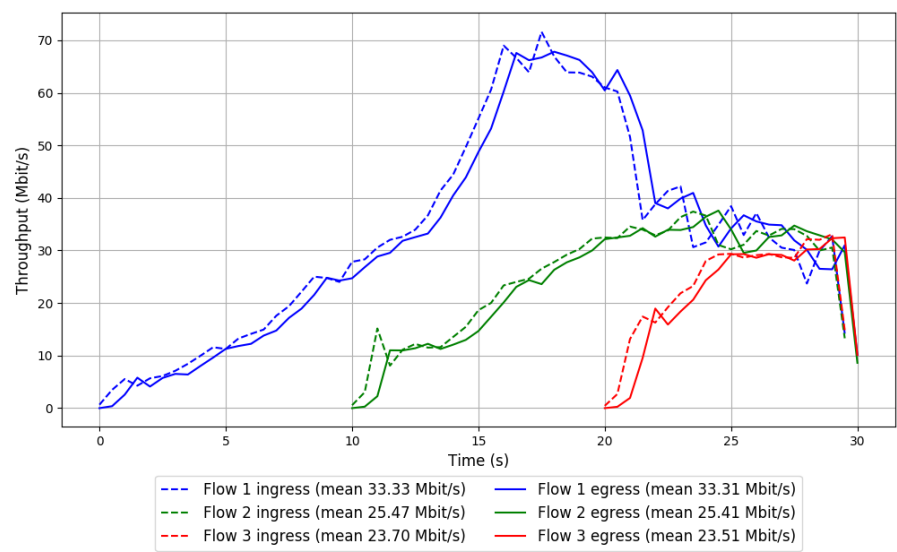
-- Flow 3:

Average throughput: 23.51 Mbit/s

95th percentile per-packet one-way delay: 108.444 ms

Loss rate: 2.62%

Run 2: Report of Muses\_DecisionTree — Data Link

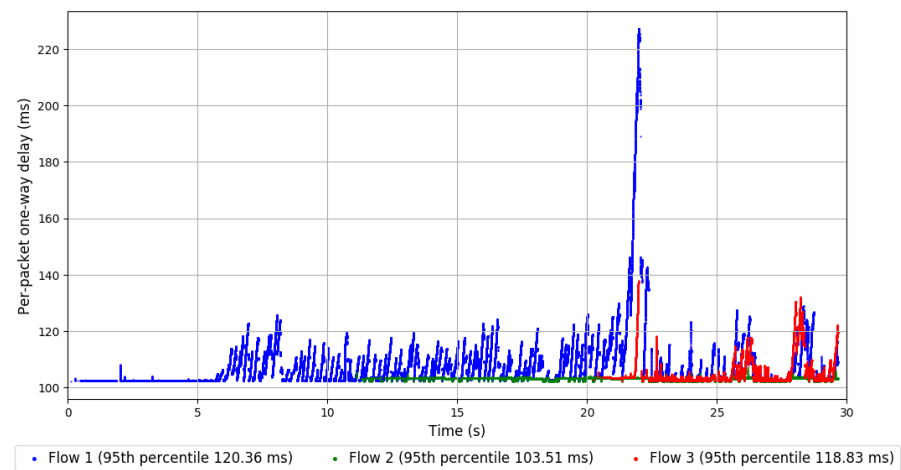
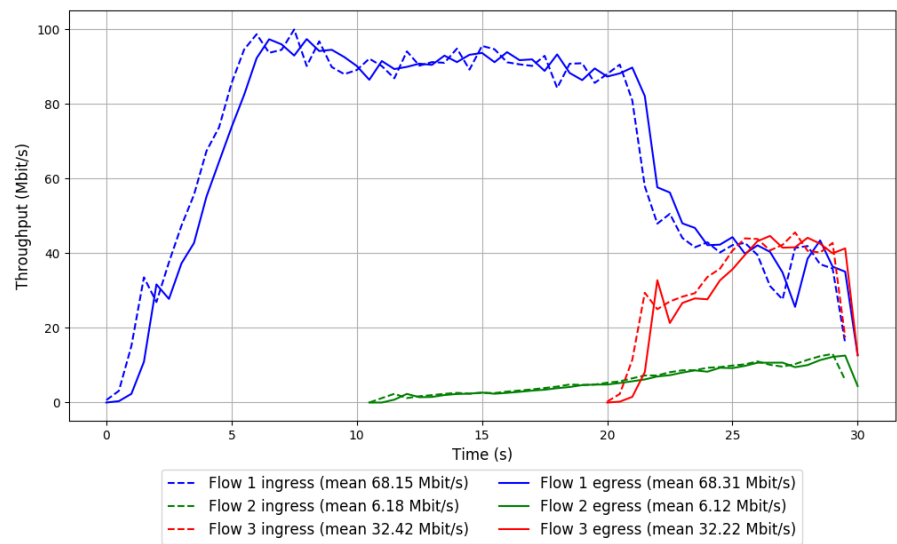


Run 3: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 17:08:38  
End at: 2019-07-12 17:09:08  
Local clock offset: -1.735 ms  
Remote clock offset: -6.805 ms

# Below is generated by plot.py at 2019-07-12 18:45:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.44 Mbit/s  
95th percentile per-packet one-way delay: 119.703 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 68.31 Mbit/s  
95th percentile per-packet one-way delay: 120.357 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 6.12 Mbit/s  
95th percentile per-packet one-way delay: 103.509 ms  
Loss rate: 1.93%  
-- Flow 3:  
Average throughput: 32.22 Mbit/s  
95th percentile per-packet one-way delay: 118.832 ms  
Loss rate: 2.41%

Run 3: Report of Muses\_DecisionTree — Data Link

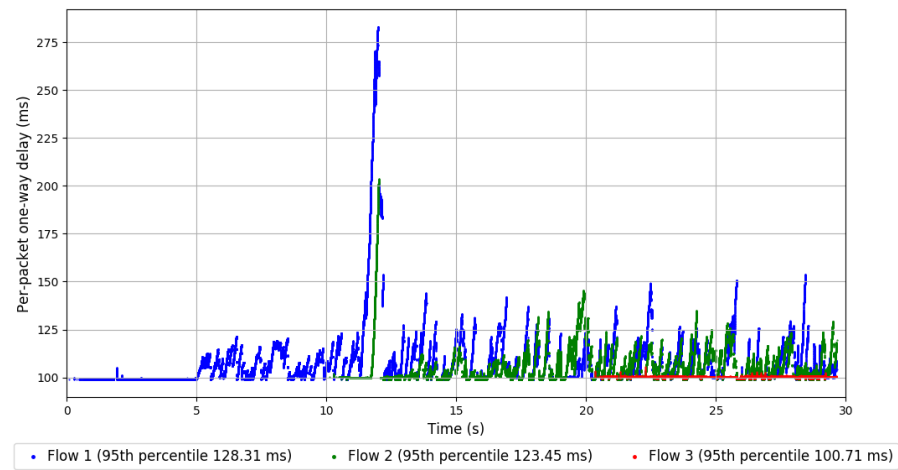
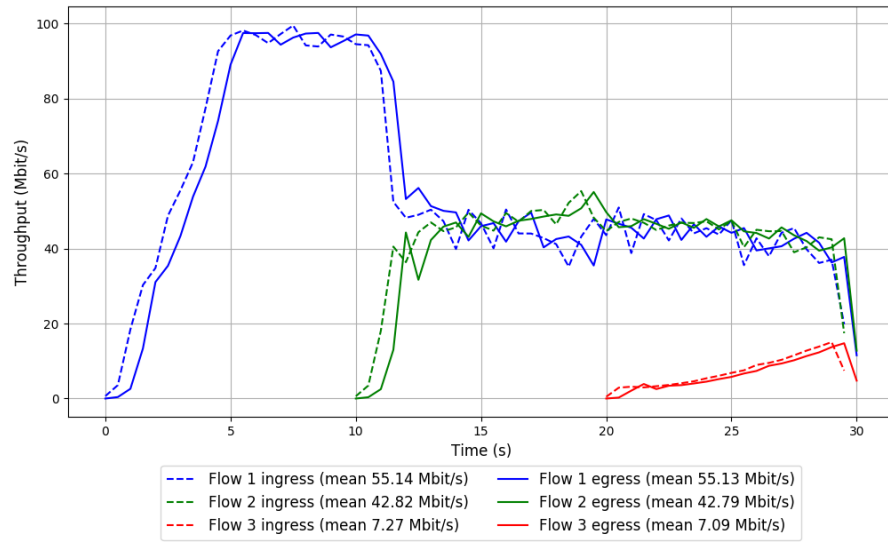


Run 4: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 17:39:47  
End at: 2019-07-12 17:40:17  
Local clock offset: -3.71 ms  
Remote clock offset: -3.261 ms

# Below is generated by plot.py at 2019-07-12 18:45:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.69 Mbit/s  
95th percentile per-packet one-way delay: 126.365 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 55.13 Mbit/s  
95th percentile per-packet one-way delay: 128.314 ms  
Loss rate: 0.60%  
-- Flow 2:  
Average throughput: 42.79 Mbit/s  
95th percentile per-packet one-way delay: 123.448 ms  
Loss rate: 0.93%  
-- Flow 3:  
Average throughput: 7.09 Mbit/s  
95th percentile per-packet one-way delay: 100.710 ms  
Loss rate: 4.23%

#### Run 4: Report of Muses\_DecisionTree — Data Link

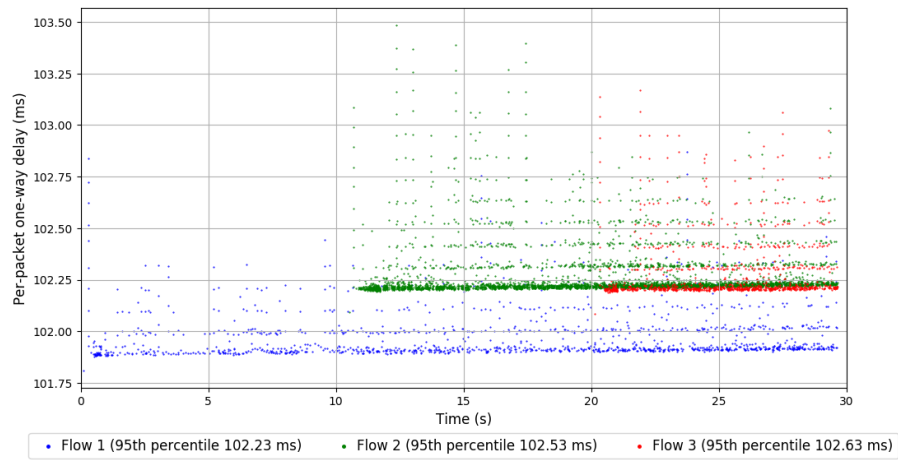
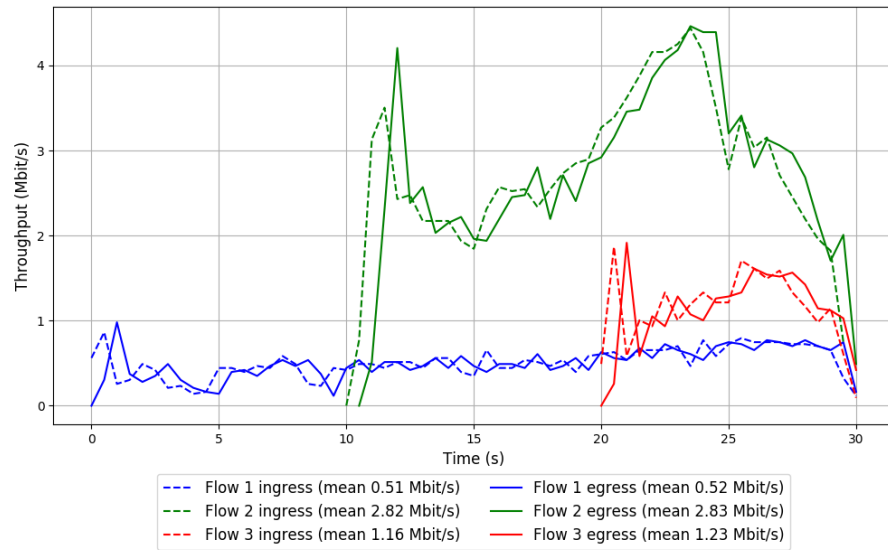


Run 5: Statistics of Muses\\_DecisionTree

Start at: 2019-07-12 18:11:44  
End at: 2019-07-12 18:12:14  
Local clock offset: -2.428 ms  
Remote clock offset: -3.058 ms

# Below is generated by plot.py at 2019-07-12 18:45:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.75 Mbit/s  
95th percentile per-packet one-way delay: 102.527 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 0.52 Mbit/s  
95th percentile per-packet one-way delay: 102.233 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 2.83 Mbit/s  
95th percentile per-packet one-way delay: 102.533 ms  
Loss rate: 0.58%  
-- Flow 3:  
Average throughput: 1.23 Mbit/s  
95th percentile per-packet one-way delay: 102.630 ms  
Loss rate: 2.25%

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



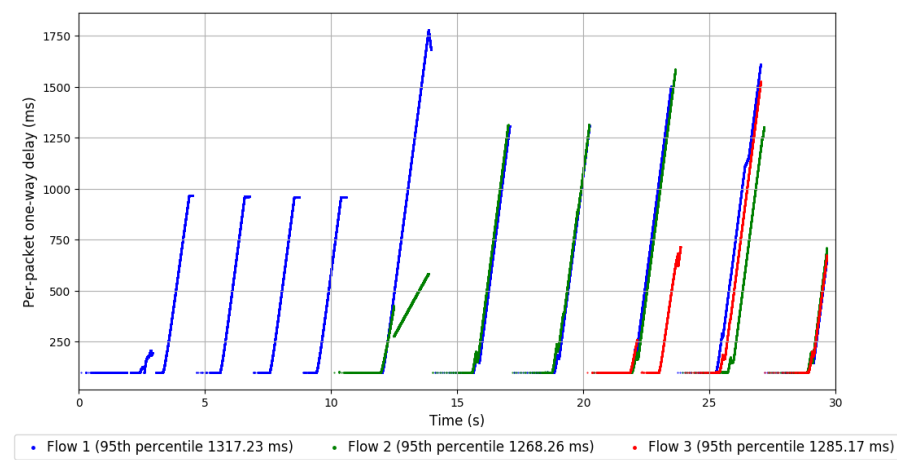
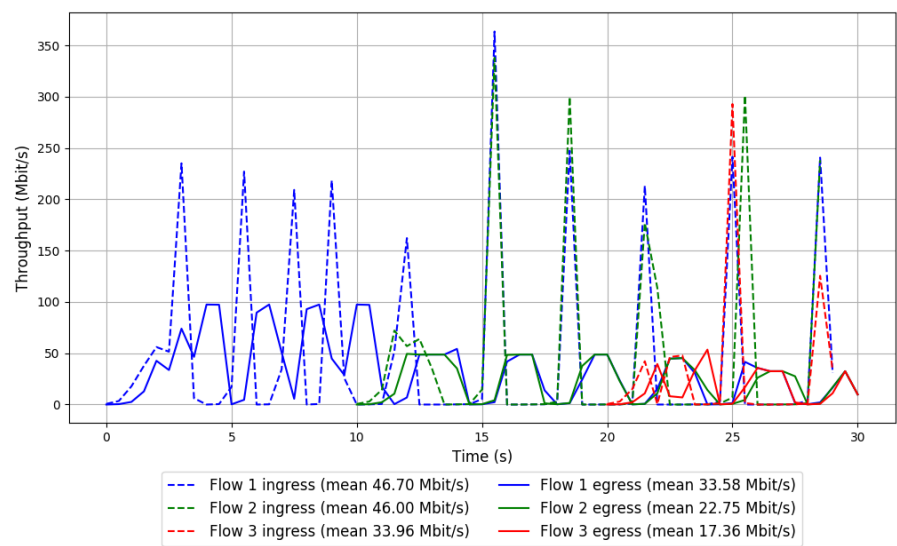


Run 1: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 16:23:59  
End at: 2019-07-12 16:24:29  
Local clock offset: -0.228 ms  
Remote clock offset: -11.764 ms

# Below is generated by plot.py at 2019-07-12 18:45:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.20 Mbit/s  
95th percentile per-packet one-way delay: 1291.703 ms  
Loss rate: 36.75%  
-- Flow 1:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 1317.231 ms  
Loss rate: 26.76%  
-- Flow 2:  
Average throughput: 22.75 Mbit/s  
95th percentile per-packet one-way delay: 1268.258 ms  
Loss rate: 49.01%  
-- Flow 3:  
Average throughput: 17.36 Mbit/s  
95th percentile per-packet one-way delay: 1285.167 ms  
Loss rate: 46.07%

Run 1: Report of Muses\_DecisionTreeH0 — Data Link

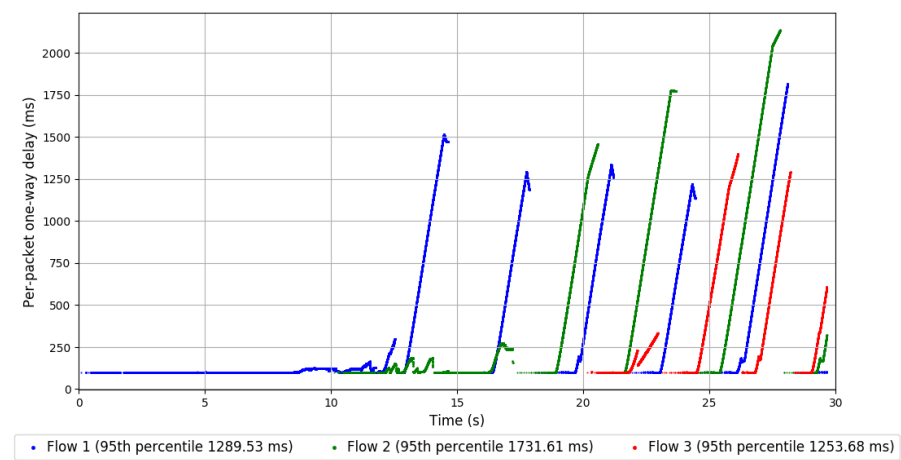
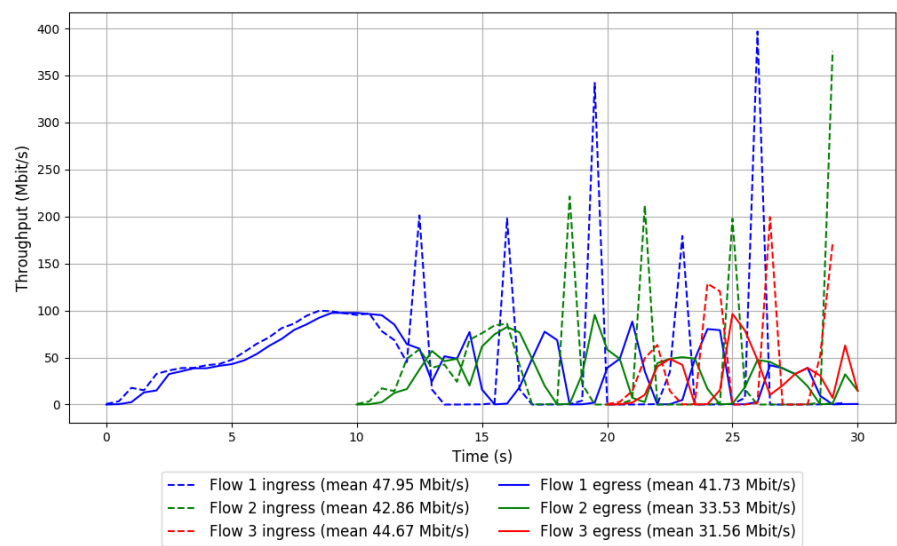


Run 2: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 16:55:34  
End at: 2019-07-12 16:56:04  
Local clock offset: 1.525 ms  
Remote clock offset: -5.397 ms

# Below is generated by plot.py at 2019-07-12 18:45:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.03 Mbit/s  
95th percentile per-packet one-way delay: 1389.333 ms  
Loss rate: 17.90%  
-- Flow 1:  
Average throughput: 41.73 Mbit/s  
95th percentile per-packet one-way delay: 1289.527 ms  
Loss rate: 13.48%  
-- Flow 2:  
Average throughput: 33.53 Mbit/s  
95th percentile per-packet one-way delay: 1731.606 ms  
Loss rate: 21.14%  
-- Flow 3:  
Average throughput: 31.56 Mbit/s  
95th percentile per-packet one-way delay: 1253.684 ms  
Loss rate: 26.76%

Run 2: Report of Muses\_DecisionTreeH0 — Data Link

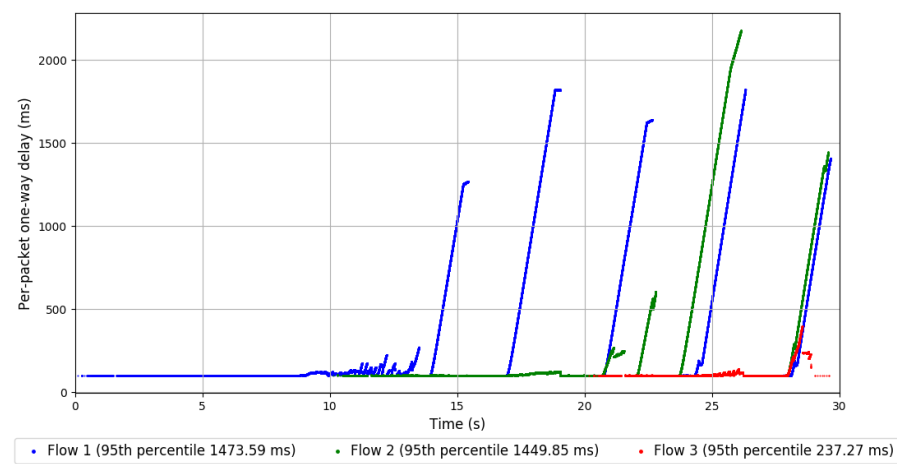
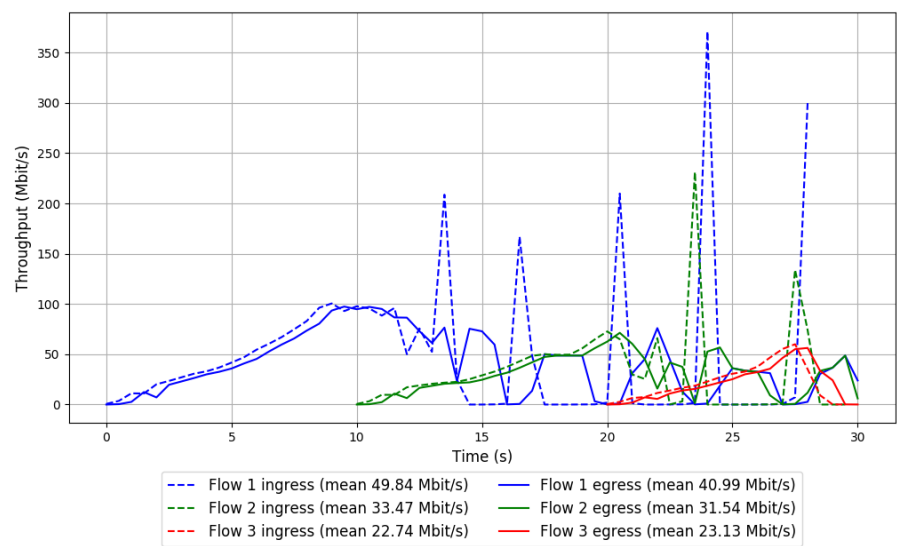


Run 3: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 17:26:45  
End at: 2019-07-12 17:27:15  
Local clock offset: -4.948 ms  
Remote clock offset: -5.248 ms

# Below is generated by plot.py at 2019-07-12 18:45:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.09 Mbit/s  
95th percentile per-packet one-way delay: 1413.163 ms  
Loss rate: 10.52%  
-- Flow 1:  
Average throughput: 40.99 Mbit/s  
95th percentile per-packet one-way delay: 1473.587 ms  
Loss rate: 13.96%  
-- Flow 2:  
Average throughput: 31.54 Mbit/s  
95th percentile per-packet one-way delay: 1449.851 ms  
Loss rate: 6.59%  
-- Flow 3:  
Average throughput: 23.13 Mbit/s  
95th percentile per-packet one-way delay: 237.273 ms  
Loss rate: 0.18%

Run 3: Report of Muses\_DecisionTreeH0 — Data Link

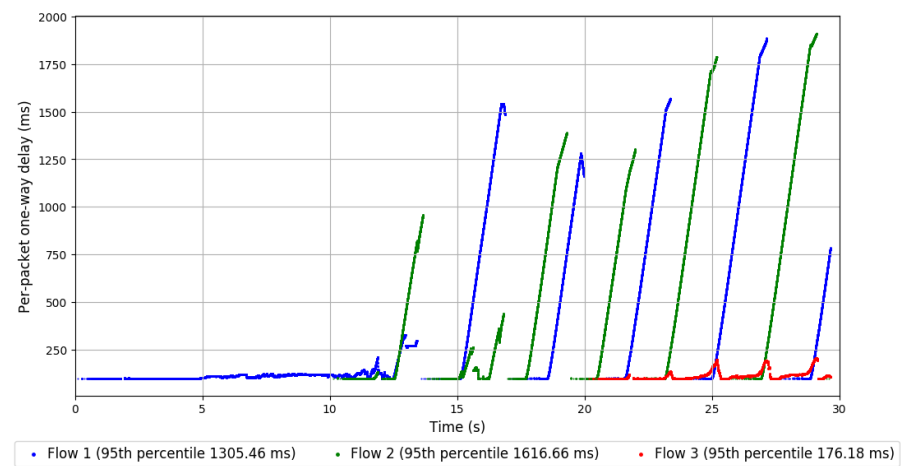
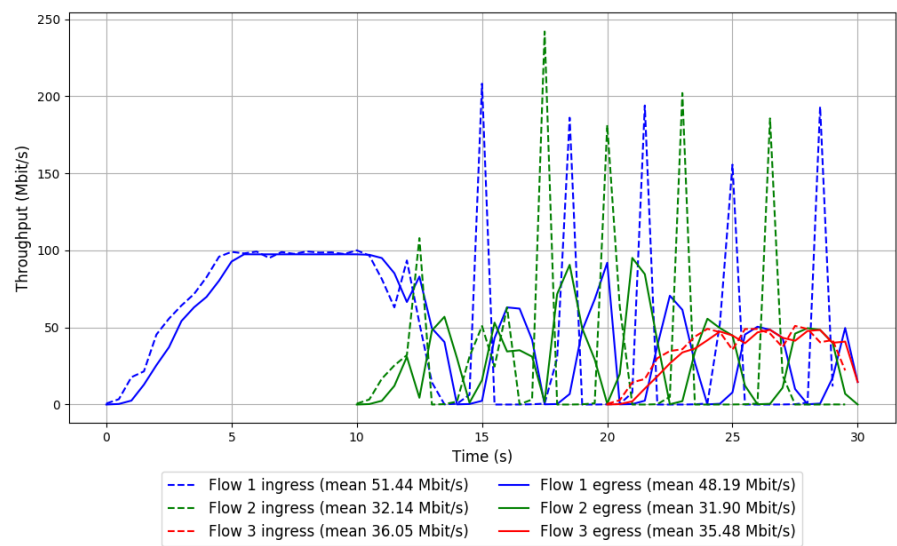


Run 4: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 17:57:54  
End at: 2019-07-12 17:58:24  
Local clock offset: -2.356 ms  
Remote clock offset: -1.063 ms

# Below is generated by plot.py at 2019-07-12 18:46:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.57 Mbit/s  
95th percentile per-packet one-way delay: 1369.169 ms  
Loss rate: 3.82%  
-- Flow 1:  
Average throughput: 48.19 Mbit/s  
95th percentile per-packet one-way delay: 1305.460 ms  
Loss rate: 4.84%  
-- Flow 2:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 1616.661 ms  
Loss rate: 1.66%  
-- Flow 3:  
Average throughput: 35.48 Mbit/s  
95th percentile per-packet one-way delay: 176.181 ms  
Loss rate: 3.34%

Run 4: Report of Muses\_DecisionTreeH0 — Data Link



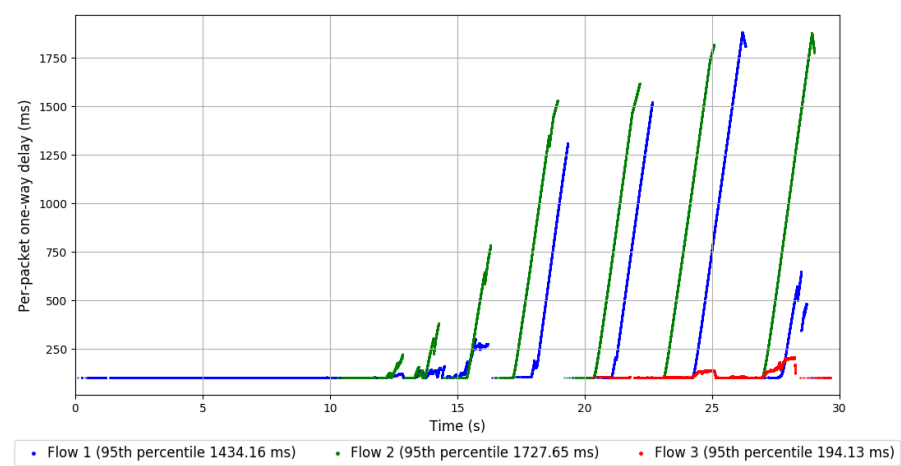
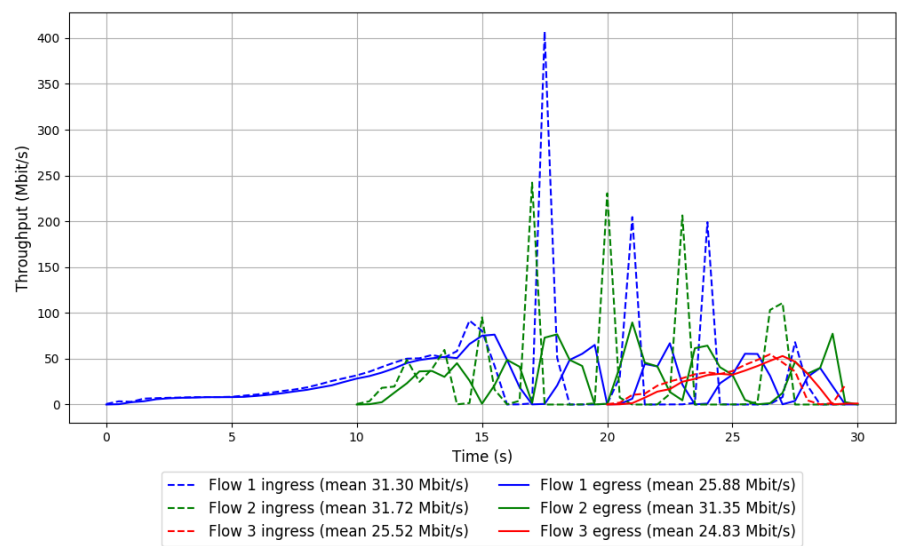


Run 5: Statistics of Muses\\_DecisionTreeH0

Start at: 2019-07-12 18:30:31  
End at: 2019-07-12 18:31:01  
Local clock offset: -3.489 ms  
Remote clock offset: -2.591 ms

# Below is generated by plot.py at 2019-07-12 18:46:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.51 Mbit/s  
95th percentile per-packet one-way delay: 1540.799 ms  
Loss rate: 10.49%  
-- Flow 1:  
Average throughput: 25.88 Mbit/s  
95th percentile per-packet one-way delay: 1434.158 ms  
Loss rate: 17.79%  
-- Flow 2:  
Average throughput: 31.35 Mbit/s  
95th percentile per-packet one-way delay: 1727.651 ms  
Loss rate: 2.01%  
-- Flow 3:  
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 194.133 ms  
Loss rate: 4.47%

Run 5: Report of Muses\_DecisionTreeH0 — Data Link

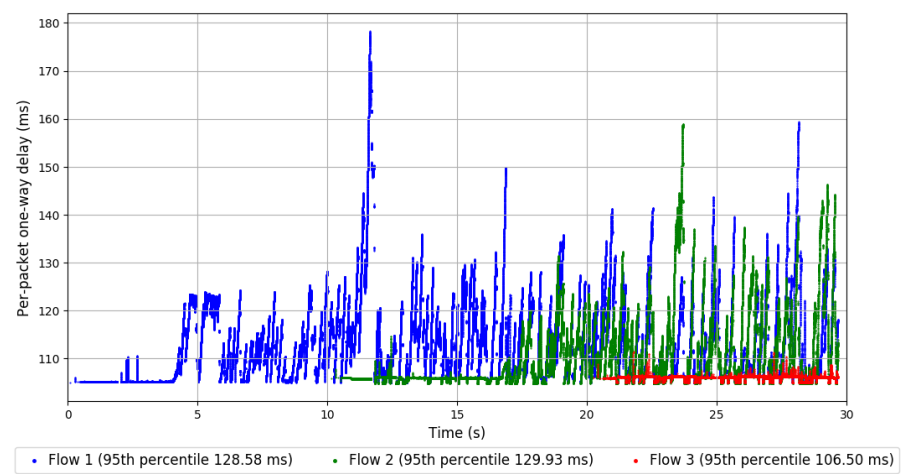
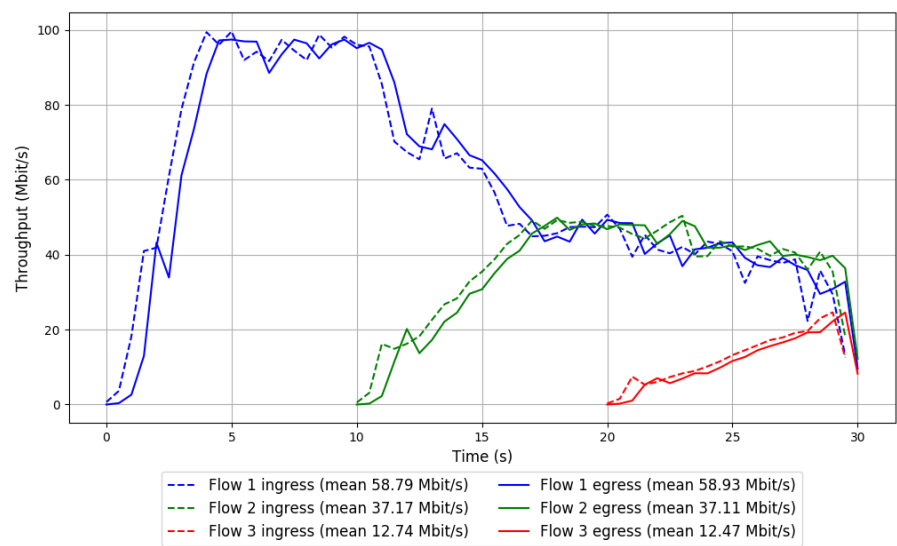


Run 1: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 16:20:13  
End at: 2019-07-12 16:20:43  
Local clock offset: -0.432 ms  
Remote clock offset: -17.059 ms

# Below is generated by plot.py at 2019-07-12 18:46:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.41 Mbit/s  
95th percentile per-packet one-way delay: 128.524 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 58.93 Mbit/s  
95th percentile per-packet one-way delay: 128.577 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 37.11 Mbit/s  
95th percentile per-packet one-way delay: 129.926 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 12.47 Mbit/s  
95th percentile per-packet one-way delay: 106.503 ms  
Loss rate: 3.88%

Run 1: Report of Muses\_DecisionTreeR0 — Data Link

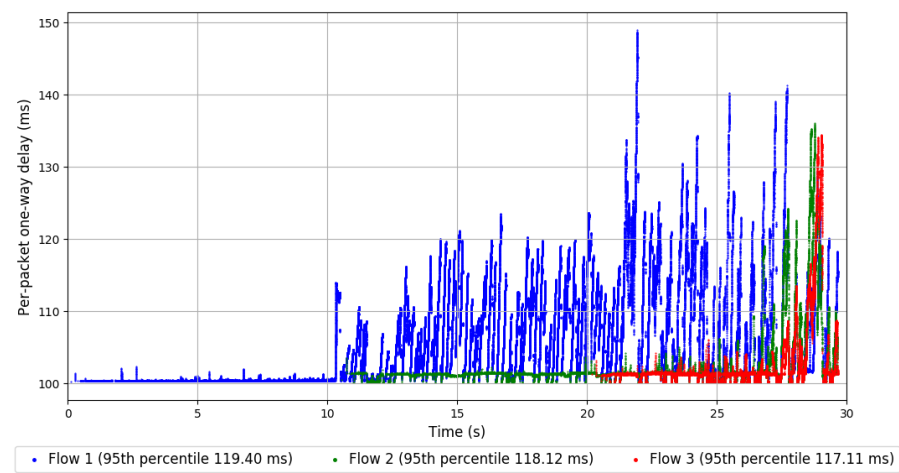
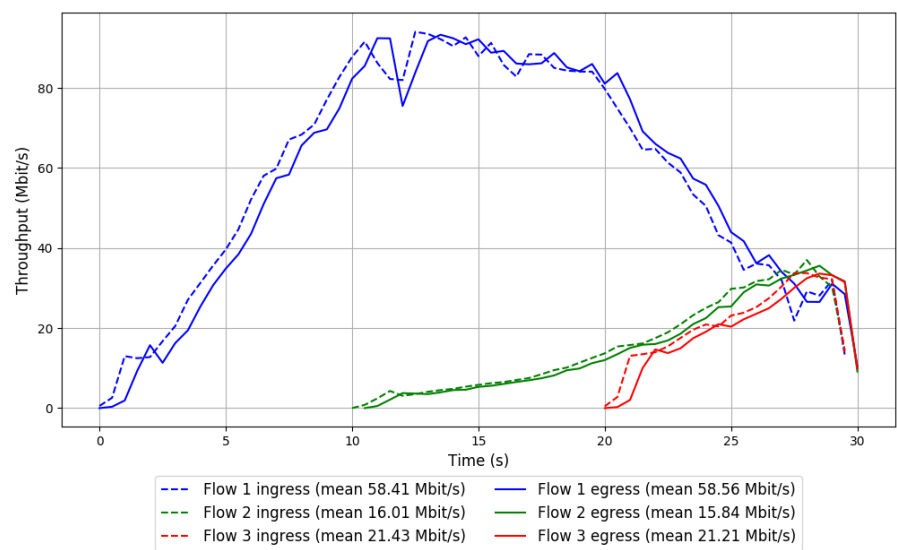


Run 2: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 16:51:48  
End at: 2019-07-12 16:52:18  
Local clock offset: 1.112 ms  
Remote clock offset: -7.294 ms

# Below is generated by plot.py at 2019-07-12 18:46:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 75.61 Mbit/s  
95th percentile per-packet one-way delay: 119.273 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 58.56 Mbit/s  
95th percentile per-packet one-way delay: 119.399 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 15.84 Mbit/s  
95th percentile per-packet one-way delay: 118.122 ms  
Loss rate: 1.97%  
-- Flow 3:  
Average throughput: 21.21 Mbit/s  
95th percentile per-packet one-way delay: 117.107 ms  
Loss rate: 2.84%

Run 2: Report of Muses\_DecisionTreeR0 — Data Link

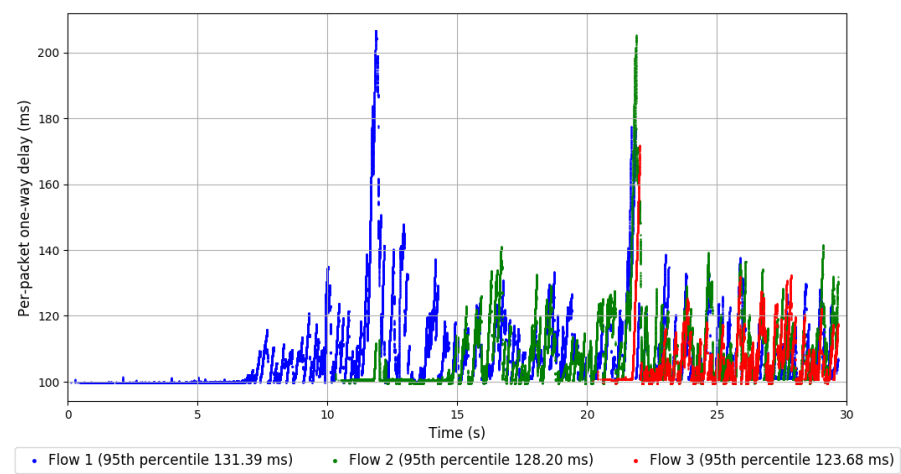
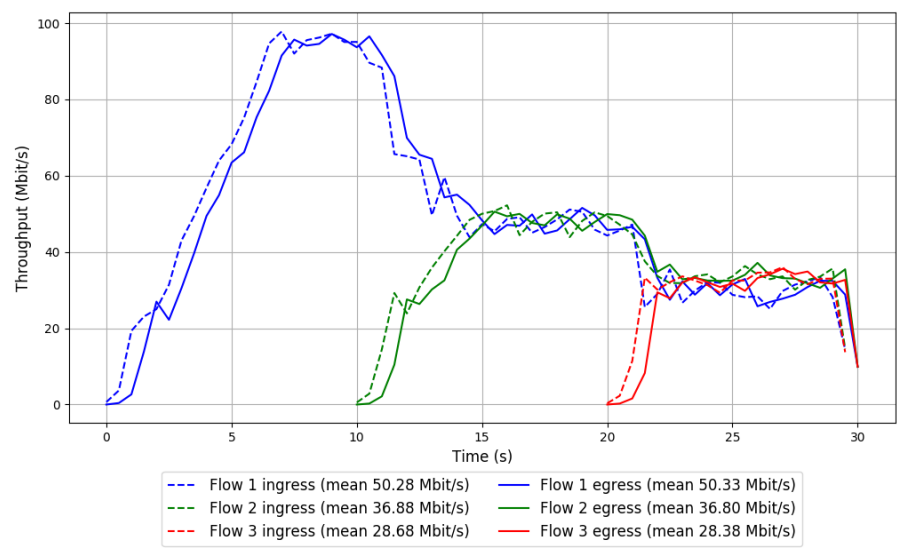


Run 3: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 17:23:01  
End at: 2019-07-12 17:23:31  
Local clock offset: -3.804 ms  
Remote clock offset: -3.688 ms

# Below is generated by plot.py at 2019-07-12 18:46:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.69 Mbit/s  
95th percentile per-packet one-way delay: 129.157 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 50.33 Mbit/s  
95th percentile per-packet one-way delay: 131.390 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 36.80 Mbit/s  
95th percentile per-packet one-way delay: 128.199 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 28.38 Mbit/s  
95th percentile per-packet one-way delay: 123.678 ms  
Loss rate: 2.77%

Run 3: Report of Muses\_DecisionTreeR0 — Data Link



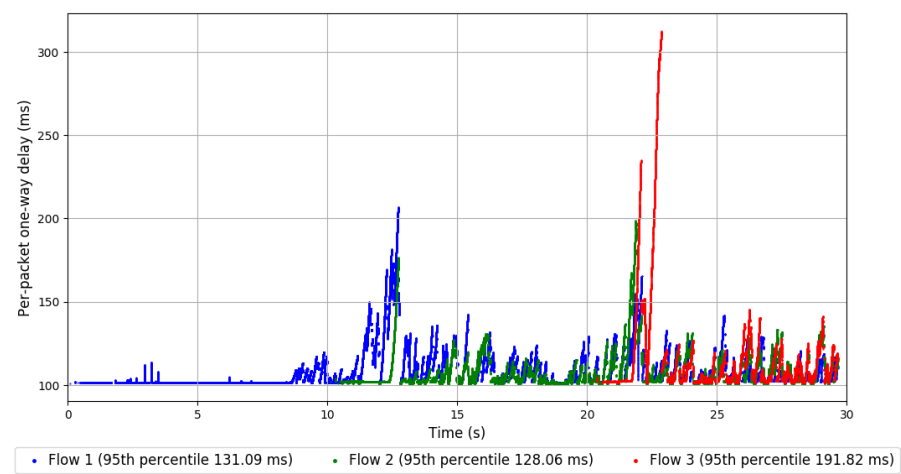
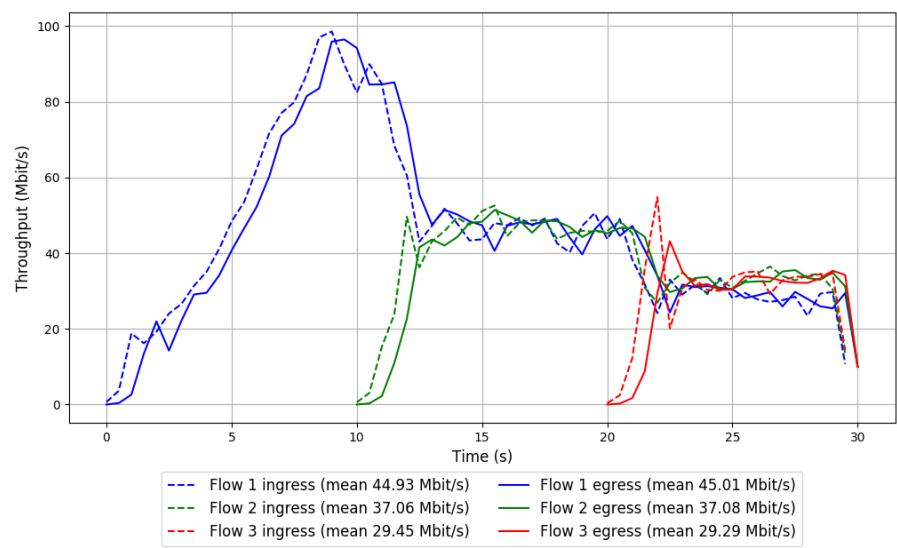


Run 4: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 17:54:08  
End at: 2019-07-12 17:54:38  
Local clock offset: -2.593 ms  
Remote clock offset: -3.421 ms

# Below is generated by plot.py at 2019-07-12 18:46:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.89 Mbit/s  
95th percentile per-packet one-way delay: 133.591 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 45.01 Mbit/s  
95th percentile per-packet one-way delay: 131.091 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 37.08 Mbit/s  
95th percentile per-packet one-way delay: 128.063 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 29.29 Mbit/s  
95th percentile per-packet one-way delay: 191.818 ms  
Loss rate: 2.40%

Run 4: Report of Muses\_DecisionTreeR0 — Data Link

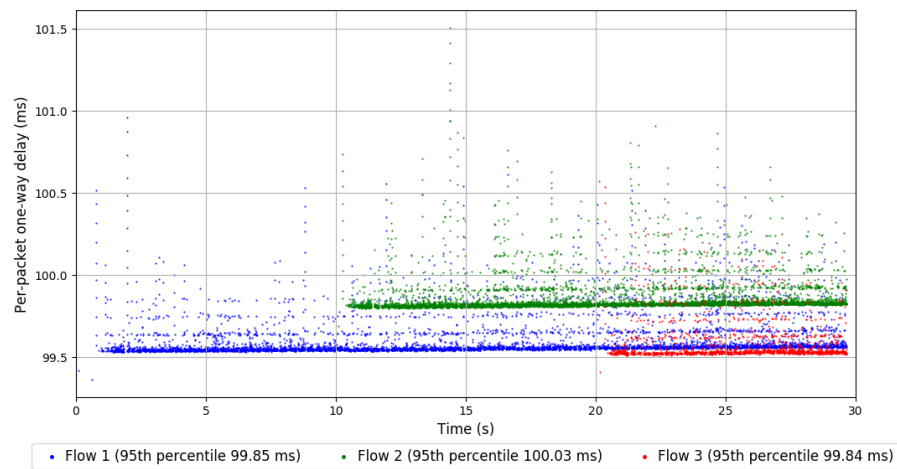
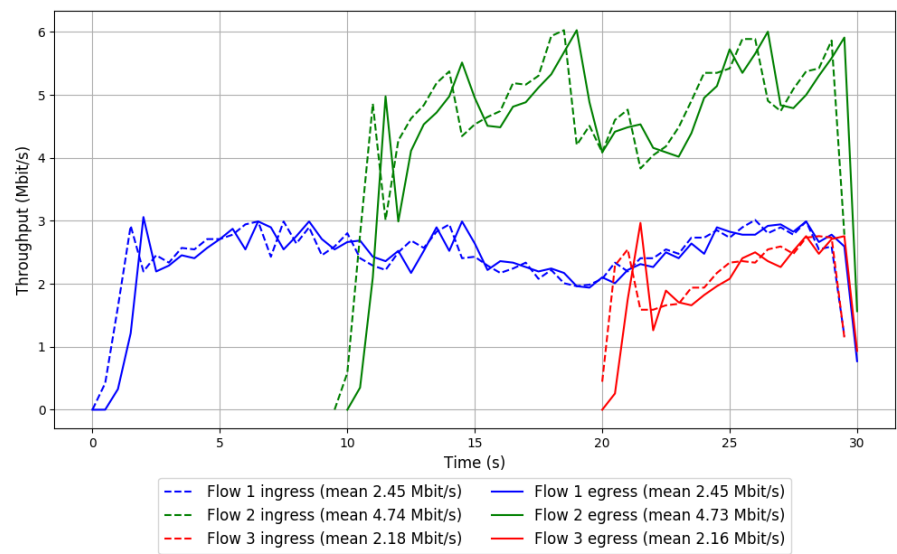


Run 5: Statistics of Muses\\_DecisionTreeR0

Start at: 2019-07-12 18:26:22  
End at: 2019-07-12 18:26:52  
Local clock offset: -3.38 ms  
Remote clock offset: -0.568 ms

# Below is generated by plot.py at 2019-07-12 18:46:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 6.28 Mbit/s  
95th percentile per-packet one-way delay: 99.956 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 2.45 Mbit/s  
95th percentile per-packet one-way delay: 99.848 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 4.73 Mbit/s  
95th percentile per-packet one-way delay: 100.032 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 2.16 Mbit/s  
95th percentile per-packet one-way delay: 99.843 ms  
Loss rate: 1.95%

Run 5: Report of Muses\_DecisionTreeR0 — Data Link

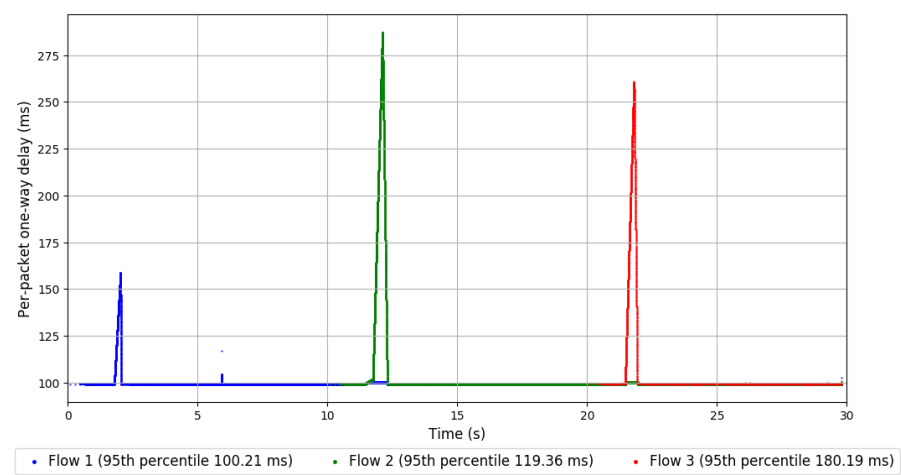
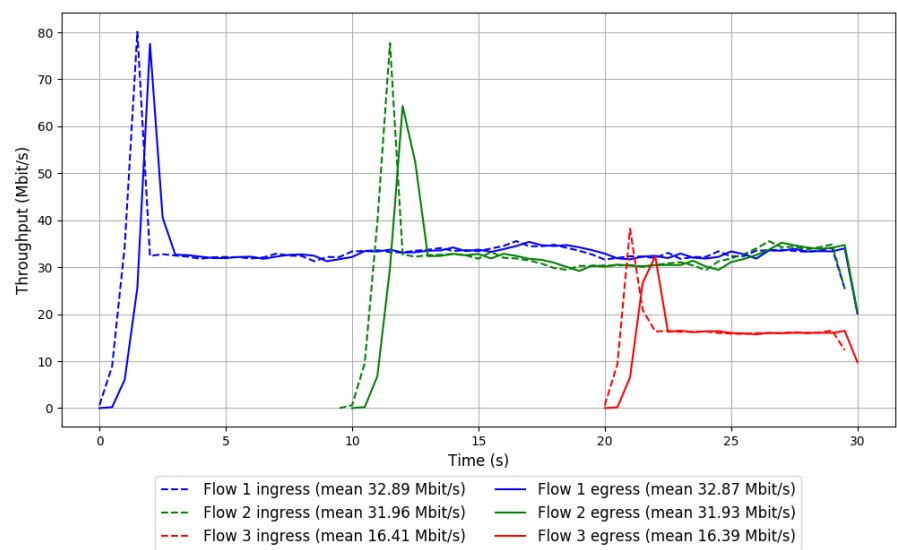


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-07-12 16:18:57
End at: 2019-07-12 16:19:27
Local clock offset: -1.354 ms
Remote clock offset: -12.262 ms

# Below is generated by plot.py at 2019-07-12 18:46:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.39 Mbit/s
95th percentile per-packet one-way delay: 100.449 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 32.87 Mbit/s
95th percentile per-packet one-way delay: 100.207 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 31.93 Mbit/s
95th percentile per-packet one-way delay: 119.357 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 16.39 Mbit/s
95th percentile per-packet one-way delay: 180.192 ms
Loss rate: 1.86%
```

Run 1: Report of PCC-Allegro — Data Link

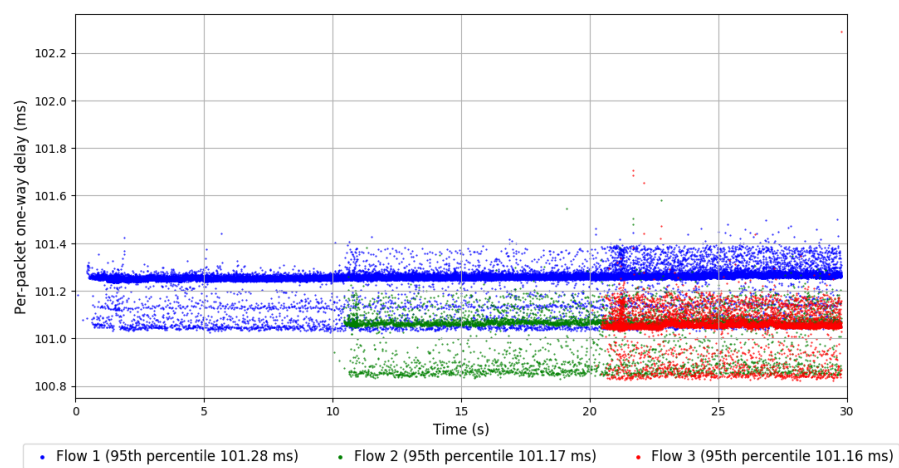
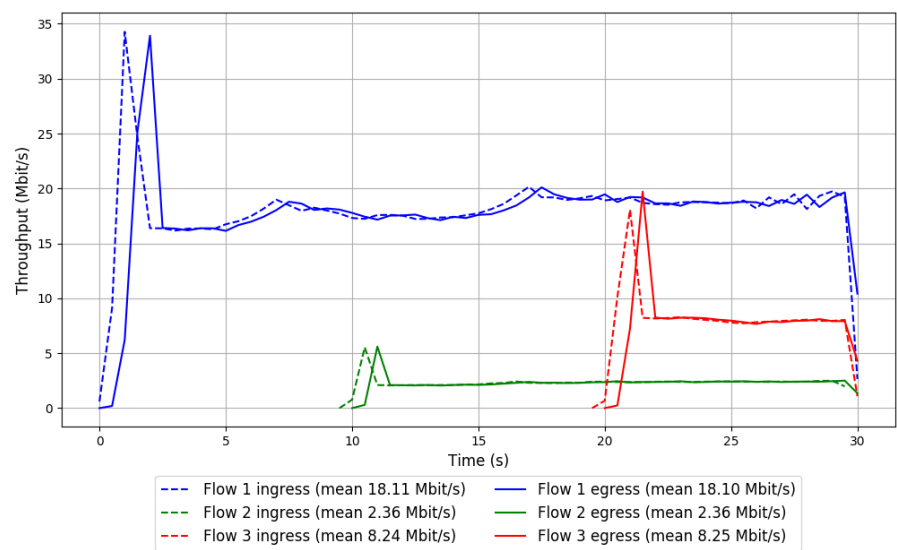


Run 2: Statistics of PCC-Allegro

Start at: 2019-07-12 16:50:33  
End at: 2019-07-12 16:51:03  
Local clock offset: 1.972 ms  
Remote clock offset: -7.415 ms

# Below is generated by plot.py at 2019-07-12 18:46:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.35 Mbit/s  
95th percentile per-packet one-way delay: 101.275 ms  
Loss rate: 1.71%  
-- Flow 1:  
Average throughput: 18.10 Mbit/s  
95th percentile per-packet one-way delay: 101.280 ms  
Loss rate: 1.42%  
-- Flow 2:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 101.165 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 8.25 Mbit/s  
95th percentile per-packet one-way delay: 101.155 ms  
Loss rate: 3.88%

Run 2: Report of PCC-Allegro — Data Link





Run 3: Statistics of PCC-Allegro

Start at: 2019-07-12 17:21:47

End at: 2019-07-12 17:22:17

Local clock offset: -3.911 ms

Remote clock offset: -4.03 ms

# Below is generated by plot.py at 2019-07-12 18:46:32

# Datalink statistics

-- Total of 3 flows:

Average throughput: 16.63 Mbit/s

95th percentile per-packet one-way delay: 99.681 ms

Loss rate: 0.86%

-- Flow 1:

Average throughput: 8.21 Mbit/s

95th percentile per-packet one-way delay: 99.650 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 8.50 Mbit/s

95th percentile per-packet one-way delay: 99.690 ms

Loss rate: 0.88%

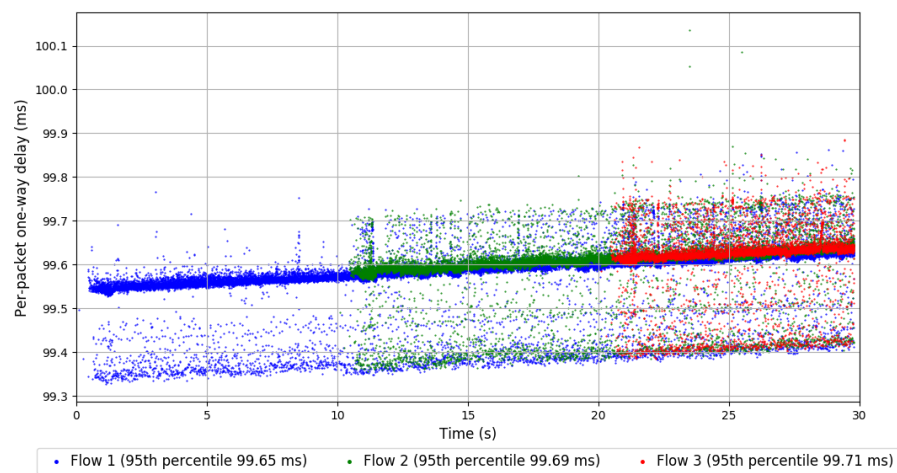
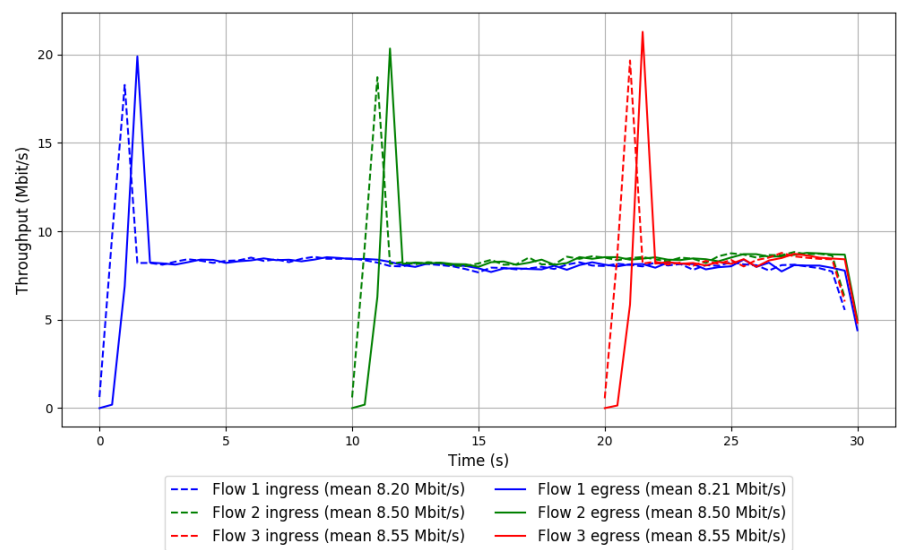
-- Flow 3:

Average throughput: 8.55 Mbit/s

95th percentile per-packet one-way delay: 99.712 ms

Loss rate: 1.72%

Run 3: Report of PCC-Allegro — Data Link

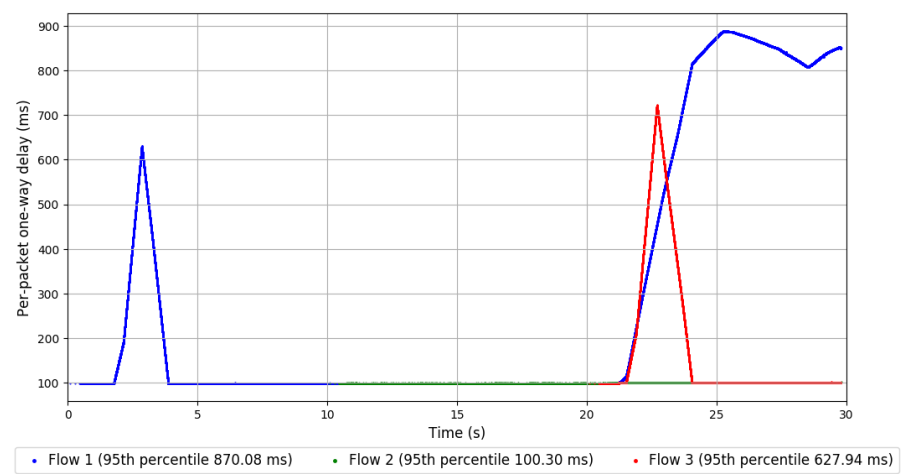
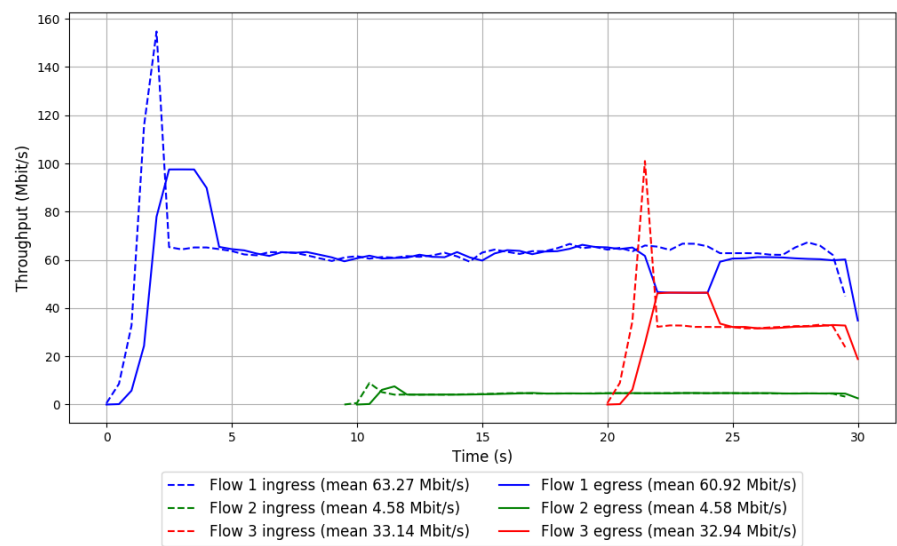


Run 4: Statistics of PCC-Allegro

Start at: 2019-07-12 17:52:50  
End at: 2019-07-12 17:53:20  
Local clock offset: -2.61 ms  
Remote clock offset: -1.656 ms

# Below is generated by plot.py at 2019-07-12 18:46:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.70 Mbit/s  
95th percentile per-packet one-way delay: 863.812 ms  
Loss rate: 3.86%  
-- Flow 1:  
Average throughput: 60.92 Mbit/s  
95th percentile per-packet one-way delay: 870.084 ms  
Loss rate: 4.26%  
-- Flow 2:  
Average throughput: 4.58 Mbit/s  
95th percentile per-packet one-way delay: 100.304 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 32.94 Mbit/s  
95th percentile per-packet one-way delay: 627.941 ms  
Loss rate: 2.34%

Run 4: Report of PCC-Allegro — Data Link

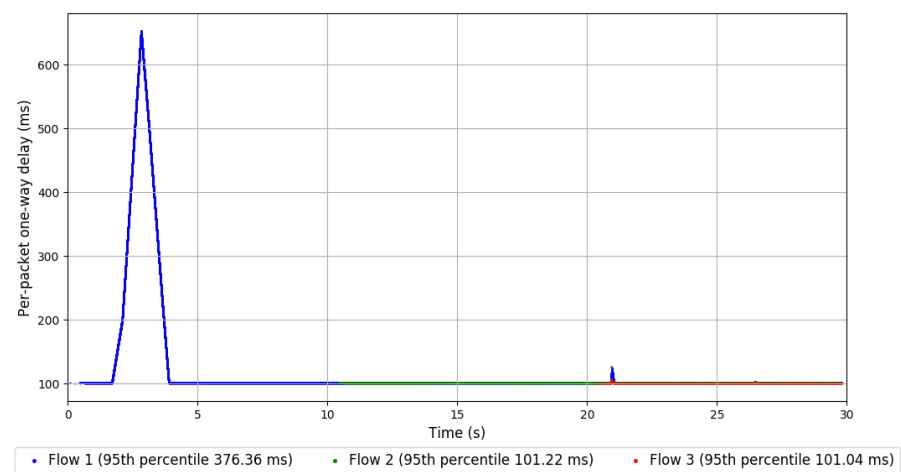
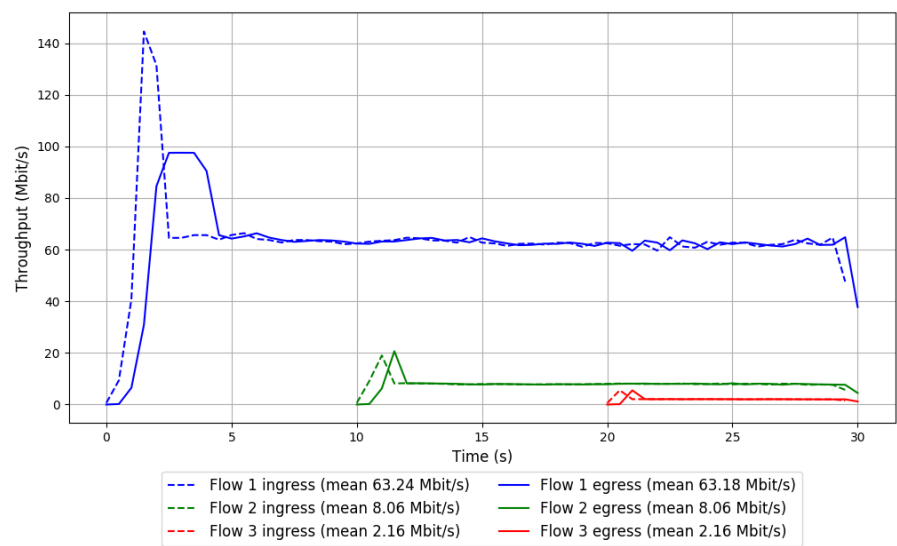


Run 5: Statistics of PCC-Allegro

Start at: 2019-07-12 18:24:54  
End at: 2019-07-12 18:25:24  
Local clock offset: -3.361 ms  
Remote clock offset: -1.987 ms

# Below is generated by plot.py at 2019-07-12 18:46:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.23 Mbit/s  
95th percentile per-packet one-way delay: 346.259 ms  
Loss rate: 0.71%  
-- Flow 1:  
Average throughput: 63.18 Mbit/s  
95th percentile per-packet one-way delay: 376.358 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 8.06 Mbit/s  
95th percentile per-packet one-way delay: 101.225 ms  
Loss rate: 0.85%  
-- Flow 3:  
Average throughput: 2.16 Mbit/s  
95th percentile per-packet one-way delay: 101.042 ms  
Loss rate: 1.68%

Run 5: Report of PCC-Allegro — Data Link

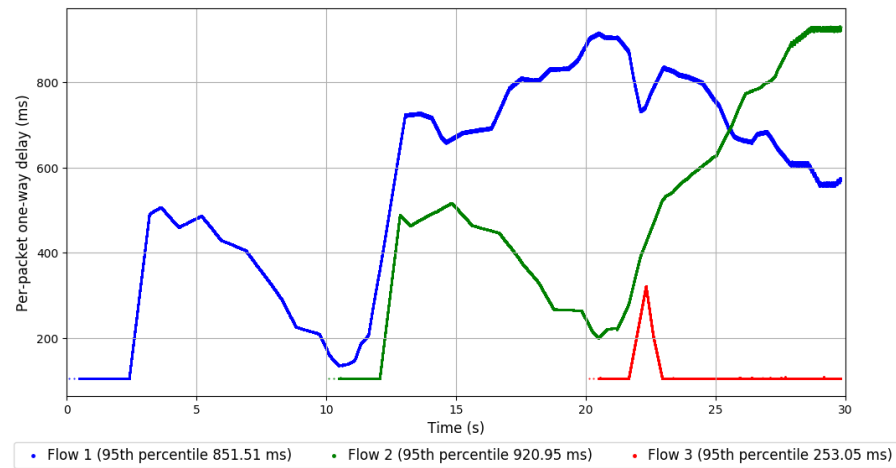
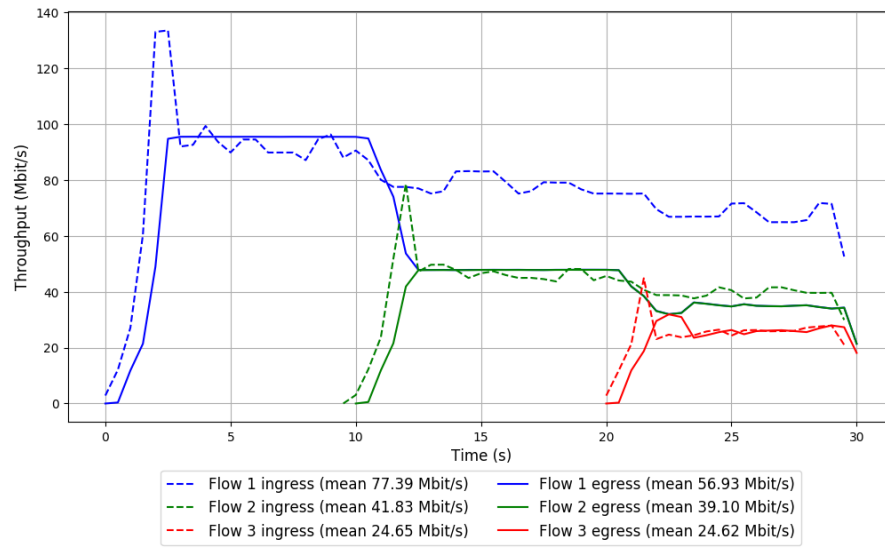


```
Run 1: Statistics of PCC-Expr

Start at: 2019-07-12 16:17:34
End at: 2019-07-12 16:18:04
Local clock offset: -1.067 ms
Remote clock offset: -17.4 ms

# Below is generated by plot.py at 2019-07-12 18:48:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.90 Mbit/s
95th percentile per-packet one-way delay: 876.036 ms
Loss rate: 20.27%
-- Flow 1:
Average throughput: 56.93 Mbit/s
95th percentile per-packet one-way delay: 851.510 ms
Loss rate: 26.87%
-- Flow 2:
Average throughput: 39.10 Mbit/s
95th percentile per-packet one-way delay: 920.953 ms
Loss rate: 7.31%
-- Flow 3:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 253.051 ms
Loss rate: 1.87%
```

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





Run 2: Statistics of PCC-Expr

Start at: 2019-07-12 16:49:13

End at: 2019-07-12 16:49:43

Local clock offset: 0.876 ms

Remote clock offset: -6.68 ms

# Below is generated by plot.py at 2019-07-12 18:48:12

# Datalink statistics

-- Total of 3 flows:

Average throughput: 58.54 Mbit/s

95th percentile per-packet one-way delay: 102.329 ms

Loss rate: 0.94%

-- Flow 1:

Average throughput: 34.06 Mbit/s

95th percentile per-packet one-way delay: 100.203 ms

Loss rate: 0.63%

-- Flow 2:

Average throughput: 30.49 Mbit/s

95th percentile per-packet one-way delay: 109.148 ms

Loss rate: 1.26%

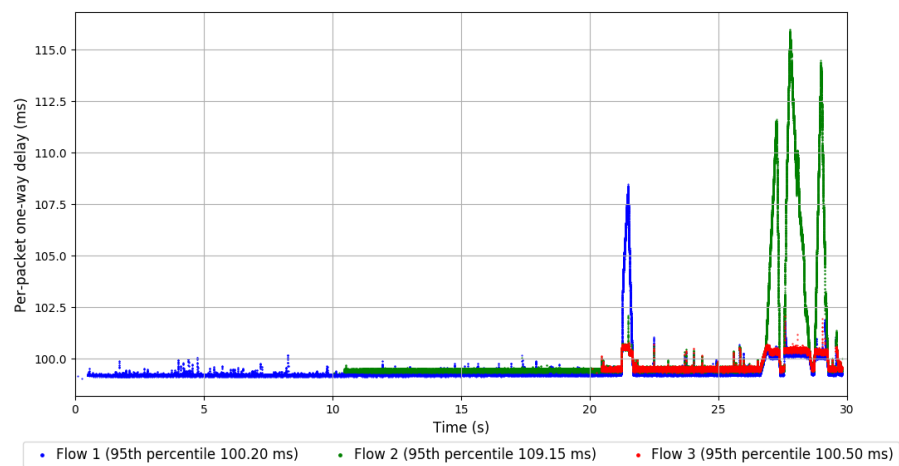
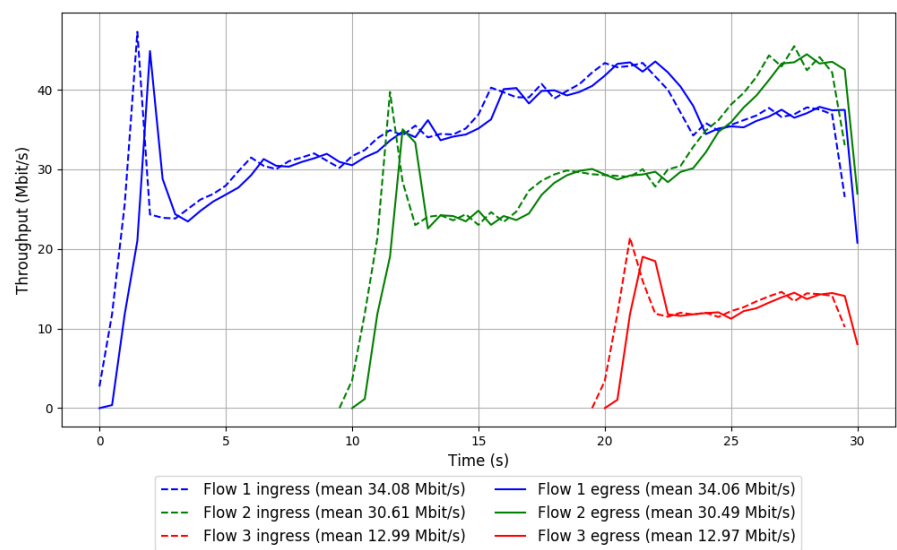
-- Flow 3:

Average throughput: 12.97 Mbit/s

95th percentile per-packet one-way delay: 100.504 ms

Loss rate: 1.91%

Run 2: Report of PCC-Expr — Data Link

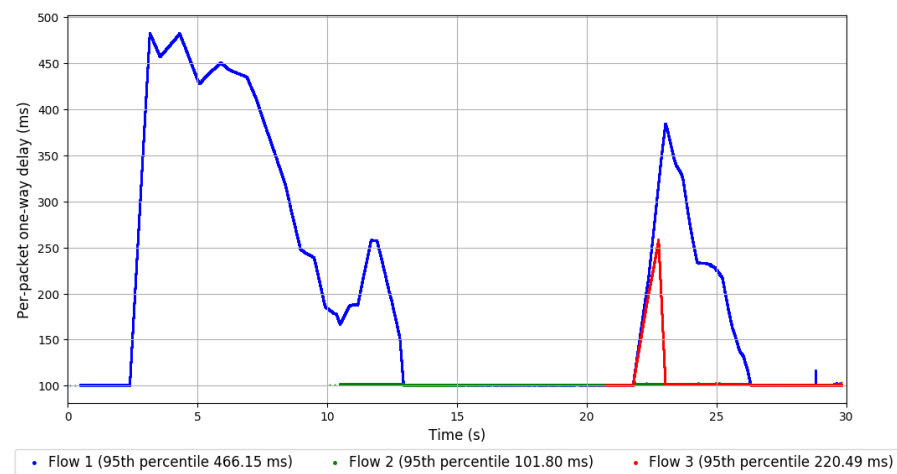
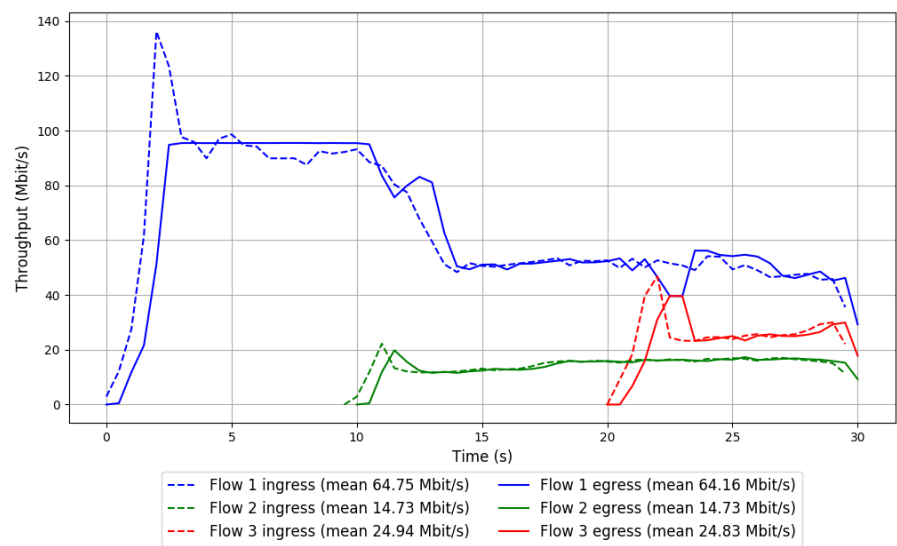


Run 3: Statistics of PCC-Expr

Start at: 2019-07-12 17:20:26  
End at: 2019-07-12 17:20:56  
Local clock offset: -3.79 ms  
Remote clock offset: -5.108 ms

# Below is generated by plot.py at 2019-07-12 18:48:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.04 Mbit/s  
95th percentile per-packet one-way delay: 461.597 ms  
Loss rate: 1.48%  
-- Flow 1:  
Average throughput: 64.16 Mbit/s  
95th percentile per-packet one-way delay: 466.149 ms  
Loss rate: 1.48%  
-- Flow 2:  
Average throughput: 14.73 Mbit/s  
95th percentile per-packet one-way delay: 101.800 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 24.83 Mbit/s  
95th percentile per-packet one-way delay: 220.487 ms  
Loss rate: 2.15%

Run 3: Report of PCC-Expr — Data Link

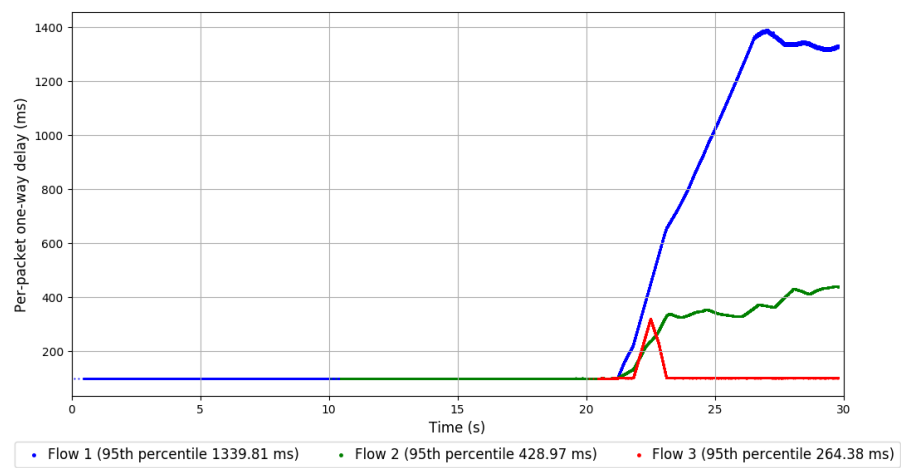
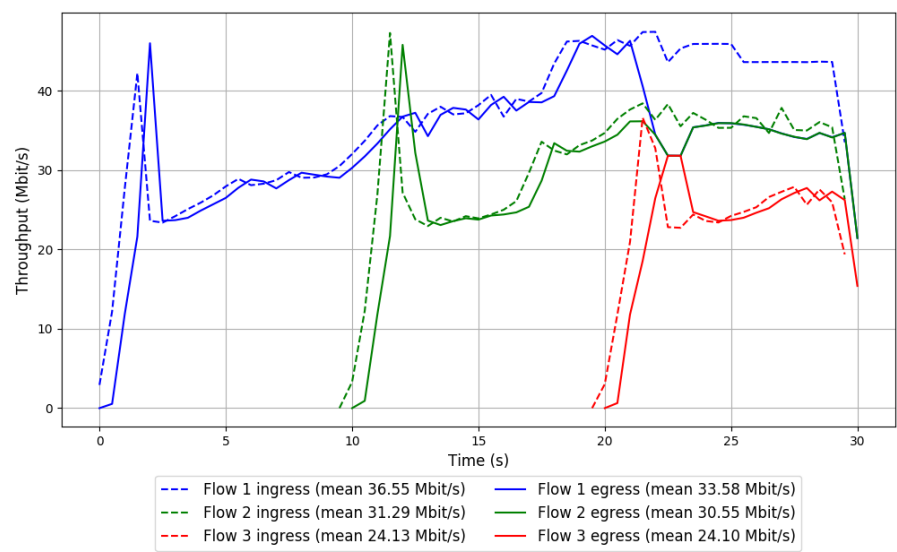


Run 4: Statistics of PCC-Expr

Start at: 2019-07-12 17:51:28  
End at: 2019-07-12 17:51:58  
Local clock offset: -2.558 ms  
Remote clock offset: -3.296 ms

# Below is generated by plot.py at 2019-07-12 18:48:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.73 Mbit/s  
95th percentile per-packet one-way delay: 1323.918 ms  
Loss rate: 6.12%  
-- Flow 1:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 1339.813 ms  
Loss rate: 8.68%  
-- Flow 2:  
Average throughput: 30.55 Mbit/s  
95th percentile per-packet one-way delay: 428.972 ms  
Loss rate: 3.25%  
-- Flow 3:  
Average throughput: 24.10 Mbit/s  
95th percentile per-packet one-way delay: 264.375 ms  
Loss rate: 1.94%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2019-07-12 18:23:32

End at: 2019-07-12 18:24:02

Local clock offset: -2.56 ms

Remote clock offset: -2.94 ms

# Below is generated by plot.py at 2019-07-12 18:48:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 78.28 Mbit/s

95th percentile per-packet one-way delay: 1219.059 ms

Loss rate: 5.66%

-- Flow 1:

Average throughput: 49.66 Mbit/s

95th percentile per-packet one-way delay: 1250.981 ms

Loss rate: 7.89%

-- Flow 2:

Average throughput: 37.04 Mbit/s

95th percentile per-packet one-way delay: 483.372 ms

Loss rate: 1.43%

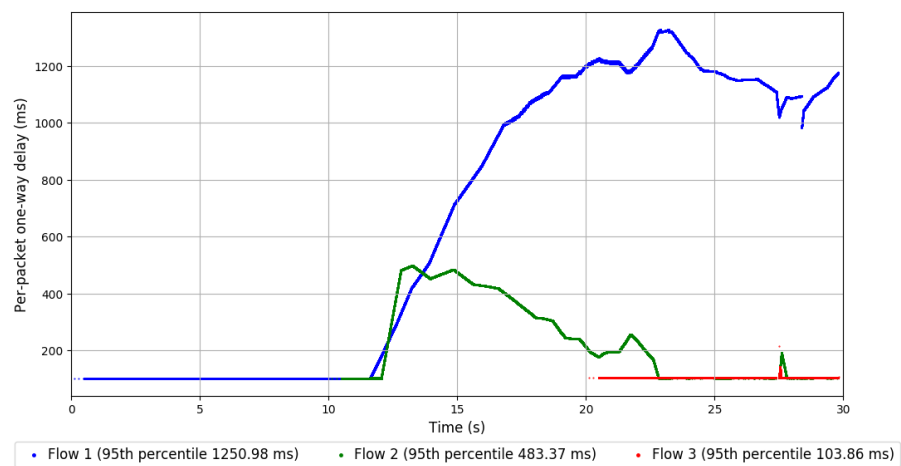
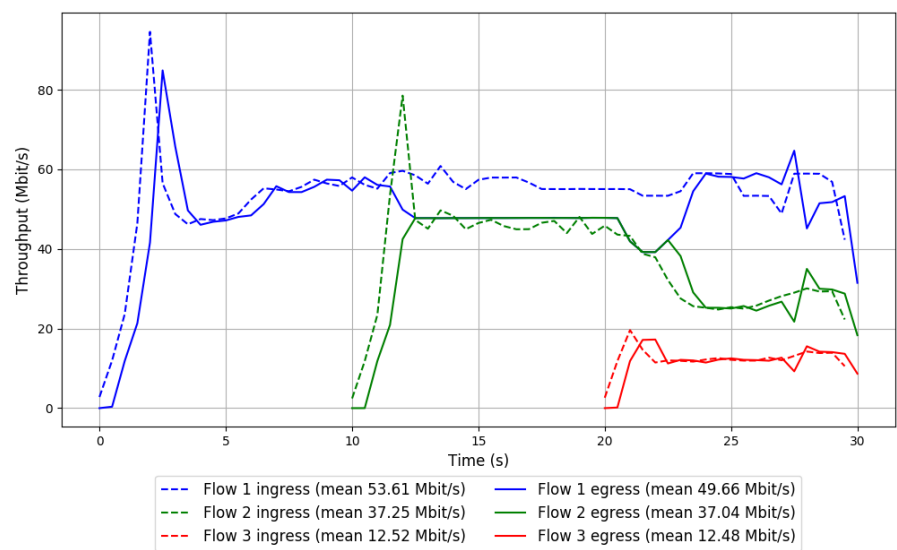
-- Flow 3:

Average throughput: 12.48 Mbit/s

95th percentile per-packet one-way delay: 103.861 ms

Loss rate: 1.98%

Run 5: Report of PCC-Expr — Data Link



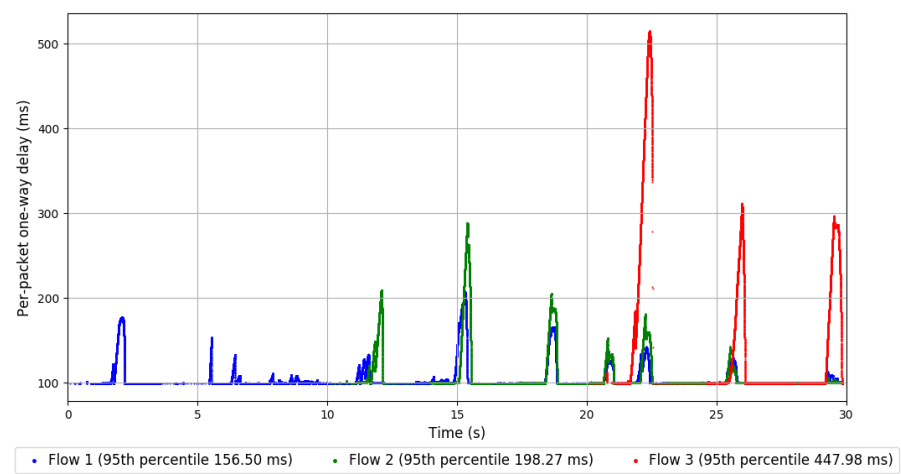
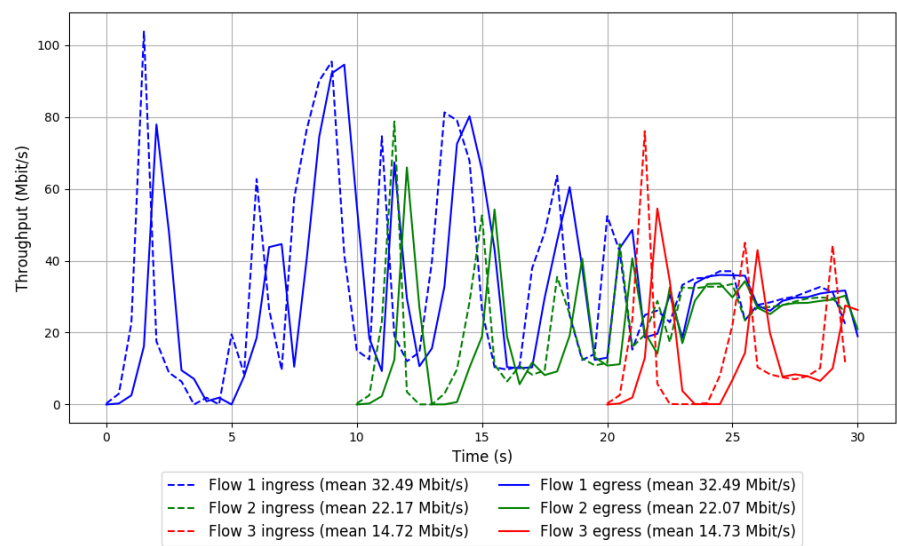


Run 1: Statistics of QUIC Cubic

Start at: 2019-07-12 16:25:22  
End at: 2019-07-12 16:25:52  
Local clock offset: -0.664 ms  
Remote clock offset: -12.413 ms

# Below is generated by plot.py at 2019-07-12 18:48:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.94 Mbit/s  
95th percentile per-packet one-way delay: 199.575 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 32.49 Mbit/s  
95th percentile per-packet one-way delay: 156.496 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 22.07 Mbit/s  
95th percentile per-packet one-way delay: 198.266 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 14.73 Mbit/s  
95th percentile per-packet one-way delay: 447.977 ms  
Loss rate: 1.72%

Run 1: Report of QUIC Cubic — Data Link

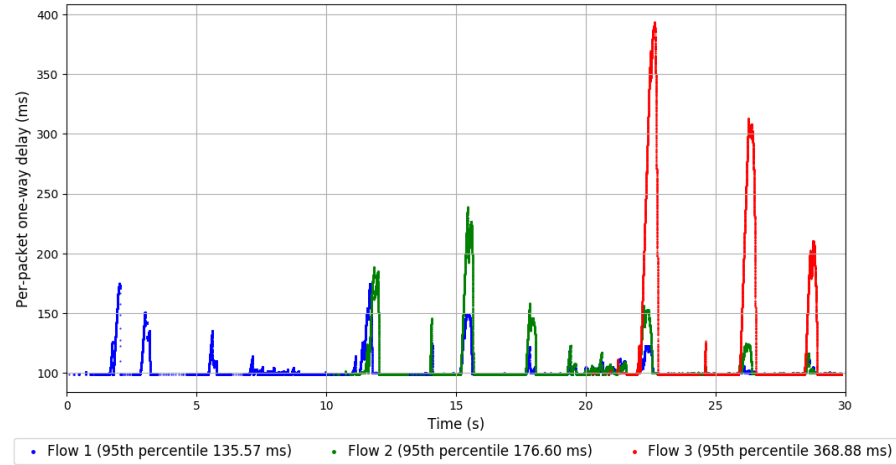
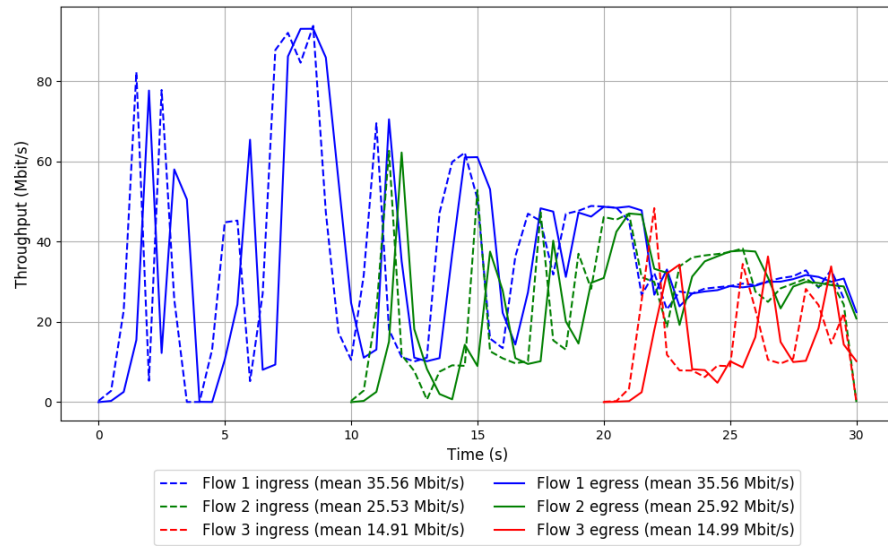


Run 2: Statistics of QUIC Cubic

Start at: 2019-07-12 16:56:52  
End at: 2019-07-12 16:57:22  
Local clock offset: 2.25 ms  
Remote clock offset: -4.899 ms

# Below is generated by plot.py at 2019-07-12 18:48:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.67 Mbit/s  
95th percentile per-packet one-way delay: 172.765 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 35.56 Mbit/s  
95th percentile per-packet one-way delay: 135.566 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 25.92 Mbit/s  
95th percentile per-packet one-way delay: 176.596 ms  
Loss rate: 1.11%  
-- Flow 3:  
Average throughput: 14.99 Mbit/s  
95th percentile per-packet one-way delay: 368.881 ms  
Loss rate: 5.04%

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

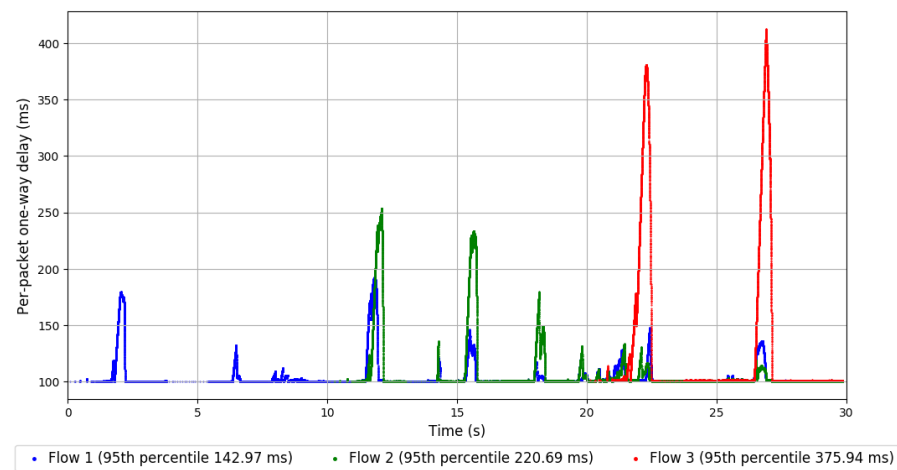
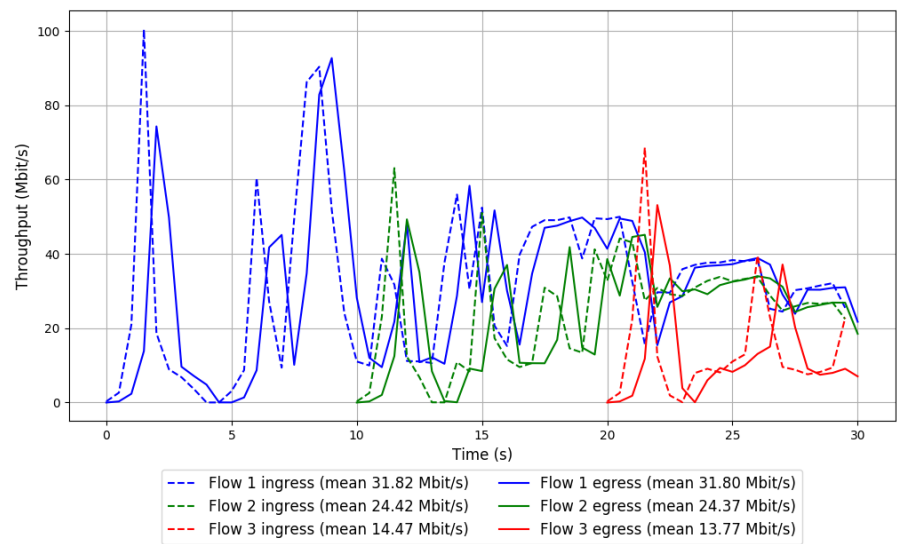


Run 3: Statistics of QUIC Cubic

Start at: 2019-07-12 17:28:03  
End at: 2019-07-12 17:28:33  
Local clock offset: -5.013 ms  
Remote clock offset: -4.834 ms

# Below is generated by plot.py at 2019-07-12 18:48:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 52.48 Mbit/s  
95th percentile per-packet one-way delay: 190.215 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 31.80 Mbit/s  
95th percentile per-packet one-way delay: 142.965 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 24.37 Mbit/s  
95th percentile per-packet one-way delay: 220.687 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 13.77 Mbit/s  
95th percentile per-packet one-way delay: 375.935 ms  
Loss rate: 6.48%

Run 3: Report of QUIC Cubic — Data Link

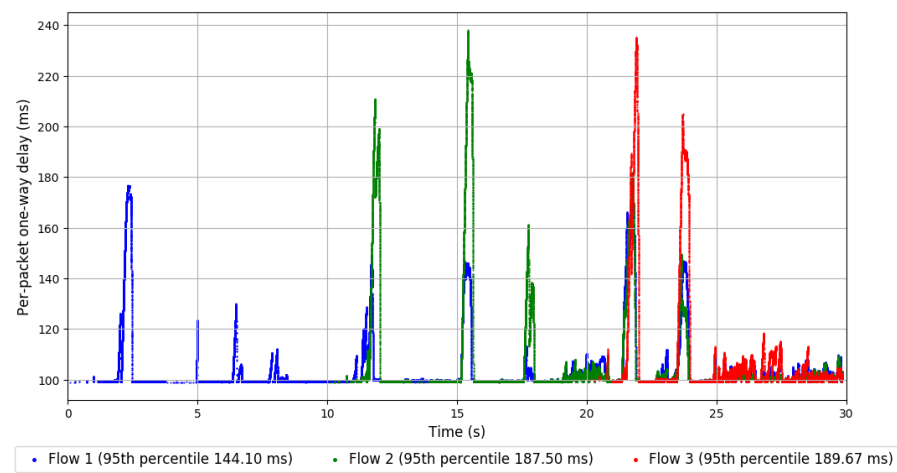
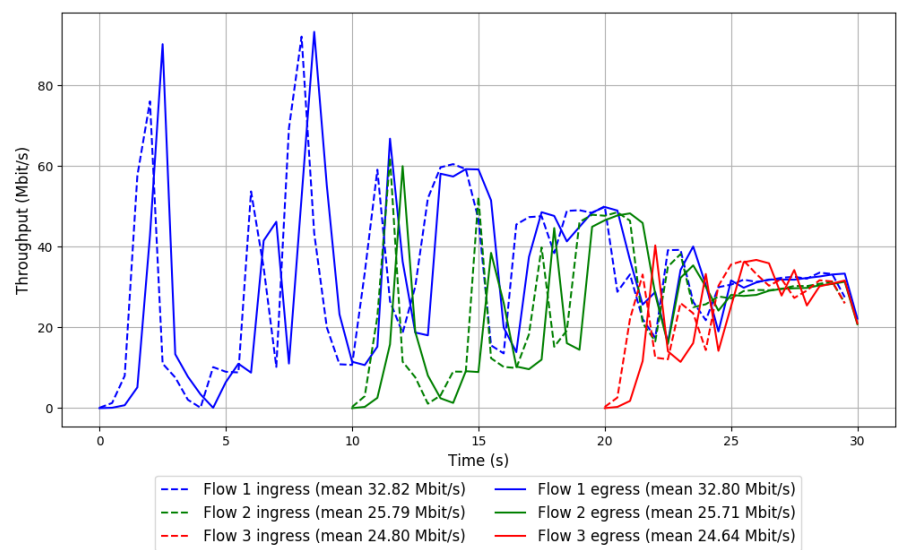


Run 4: Statistics of QUIC Cubic

Start at: 2019-07-12 17:59:12  
End at: 2019-07-12 17:59:42  
Local clock offset: -3.094 ms  
Remote clock offset: -1.902 ms

# Below is generated by plot.py at 2019-07-12 18:48:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.91 Mbit/s  
95th percentile per-packet one-way delay: 166.502 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 32.80 Mbit/s  
95th percentile per-packet one-way delay: 144.104 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 25.71 Mbit/s  
95th percentile per-packet one-way delay: 187.501 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 24.64 Mbit/s  
95th percentile per-packet one-way delay: 189.666 ms  
Loss rate: 2.40%

Run 4: Report of QUIC Cubic — Data Link



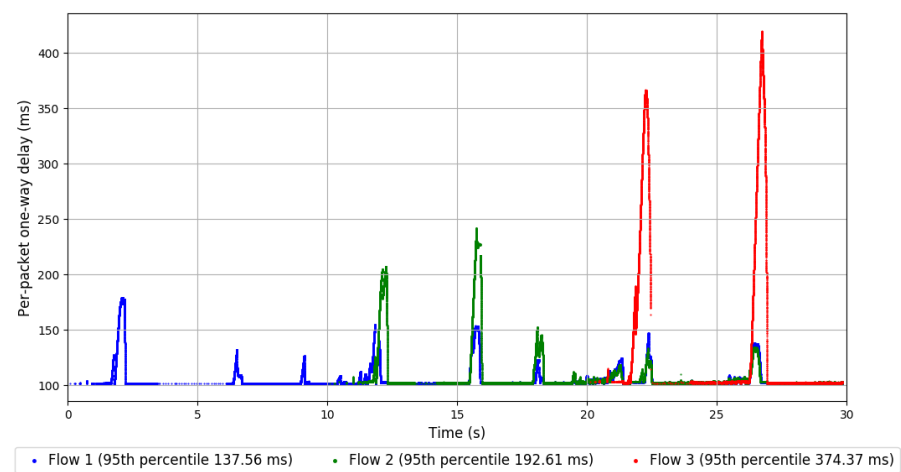
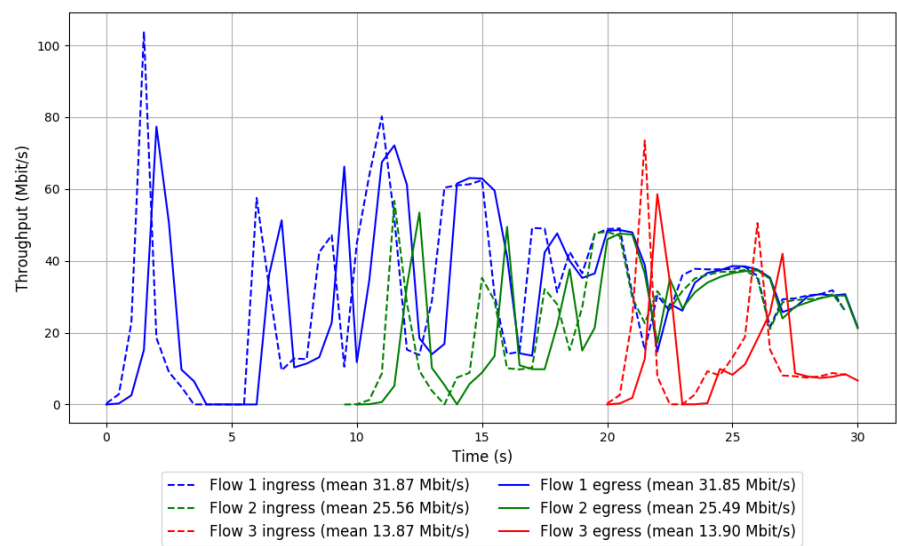


Run 5: Statistics of QUIC Cubic

Start at: 2019-07-12 18:31:55  
End at: 2019-07-12 18:32:25  
Local clock offset: -2.569 ms  
Remote clock offset: -1.933 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 53.31 Mbit/s  
95th percentile per-packet one-way delay: 180.375 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 31.85 Mbit/s  
95th percentile per-packet one-way delay: 137.555 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 25.49 Mbit/s  
95th percentile per-packet one-way delay: 192.608 ms  
Loss rate: 1.16%  
-- Flow 3:  
Average throughput: 13.90 Mbit/s  
95th percentile per-packet one-way delay: 374.371 ms  
Loss rate: 1.55%

Run 5: Report of QUIC Cubic — Data Link

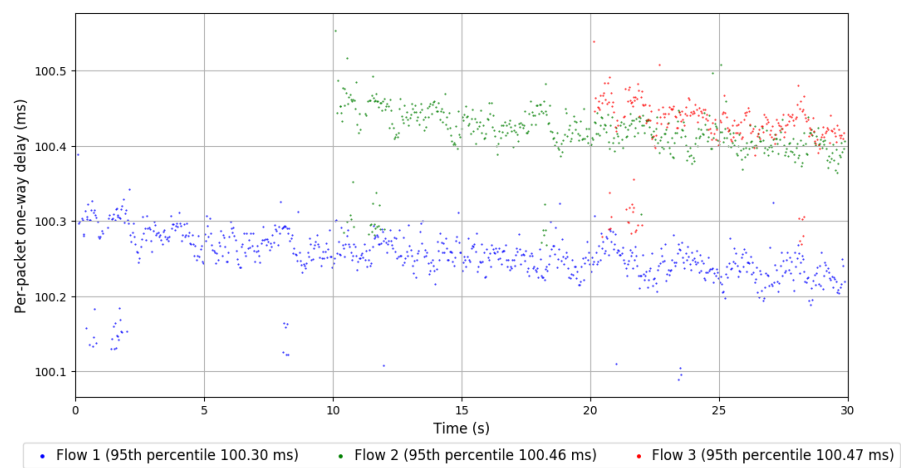
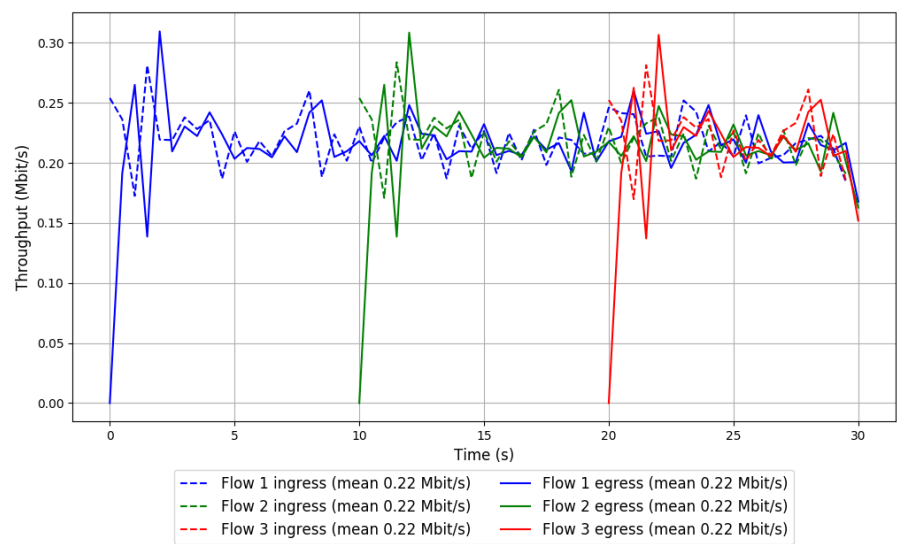


Run 1: Statistics of SReAM

Start at: 2019-07-12 16:22:46  
End at: 2019-07-12 16:23:16  
Local clock offset: -0.921 ms  
Remote clock offset: -13.317 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 100.456 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.303 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.460 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.471 ms  
Loss rate: 1.85%

Run 1: Report of SReAM — Data Link

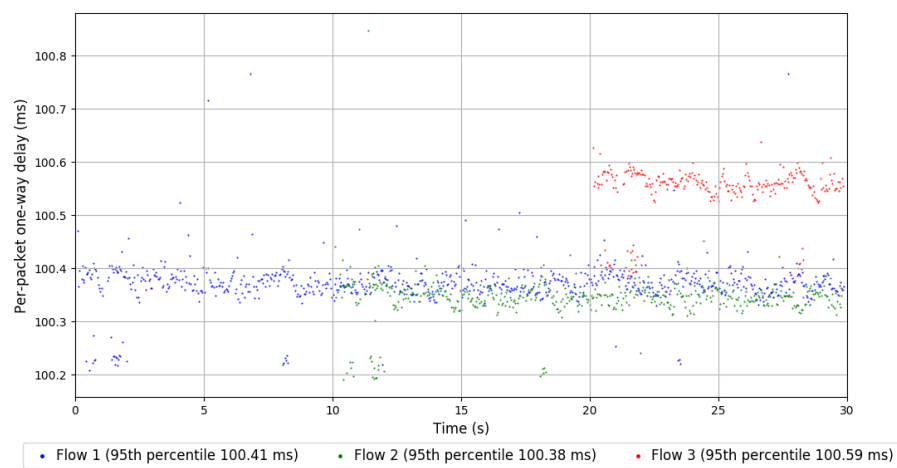
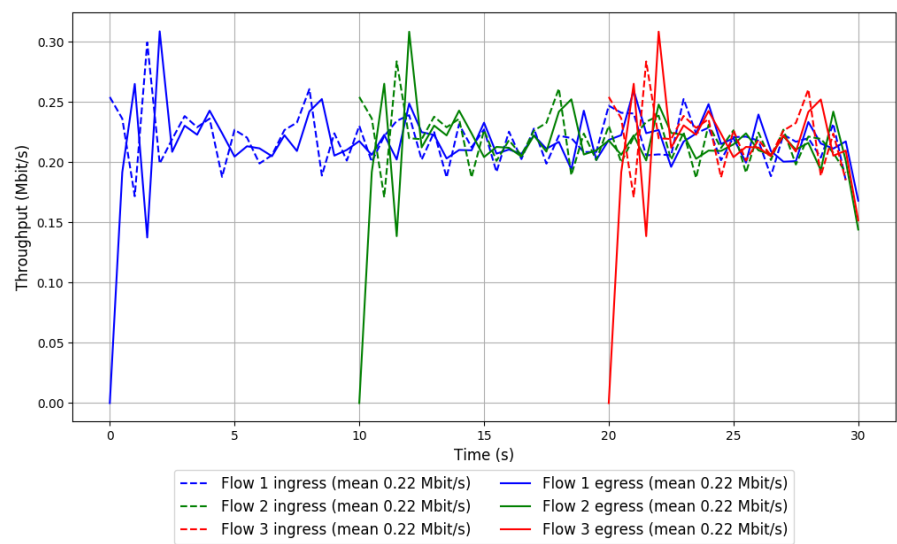


Run 2: Statistics of SReAM

Start at: 2019-07-12 16:54:20  
End at: 2019-07-12 16:54:50  
Local clock offset: 1.505 ms  
Remote clock offset: -7.083 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 100.570 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.406 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.381 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.590 ms  
Loss rate: 1.85%

Run 2: Report of SReAM — Data Link

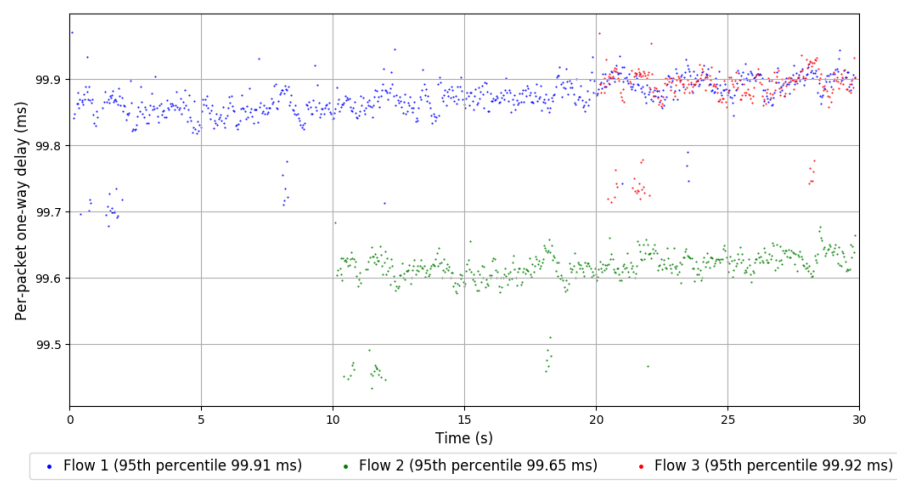
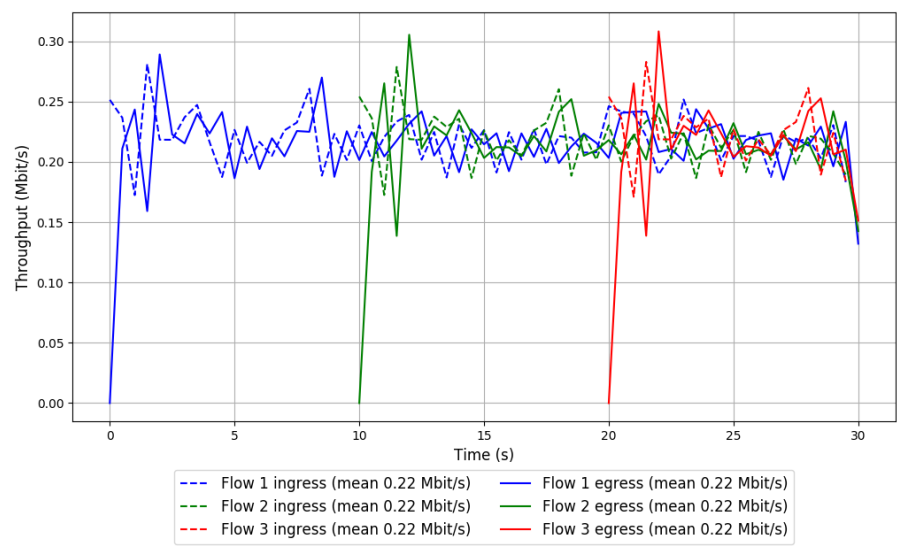


Run 3: Statistics of SReAM

Start at: 2019-07-12 17:25:33  
End at: 2019-07-12 17:26:03  
Local clock offset: -4.868 ms  
Remote clock offset: -4.468 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 99.911 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 99.912 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 99.648 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 99.922 ms  
Loss rate: 1.84%

Run 3: Report of SReAM — Data Link



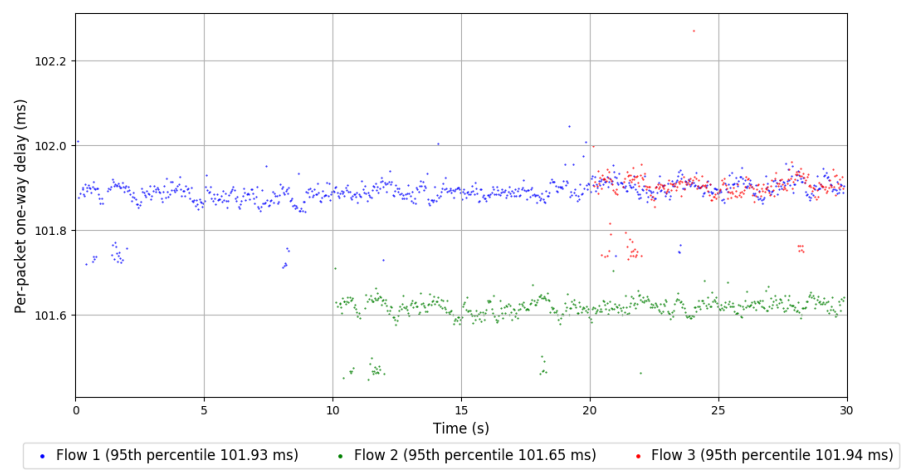
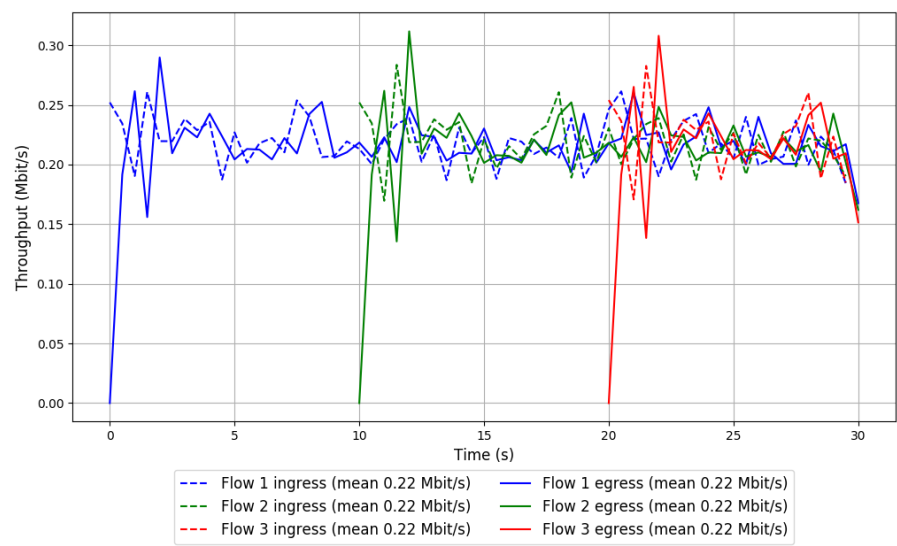


Run 4: Statistics of SReAM

Start at: 2019-07-12 17:56:41  
End at: 2019-07-12 17:57:11  
Local clock offset: -3.355 ms  
Remote clock offset: -4.791 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 101.925 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.927 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.646 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 101.937 ms  
Loss rate: 1.85%

Run 4: Report of SReAM — Data Link

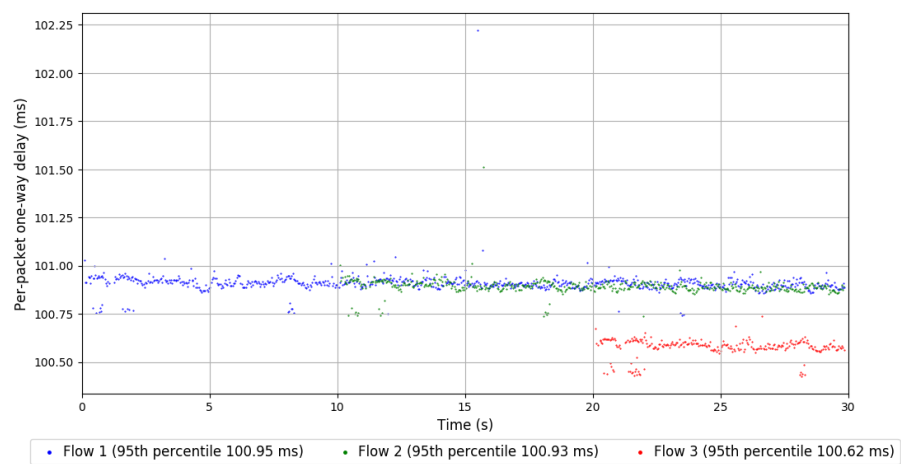
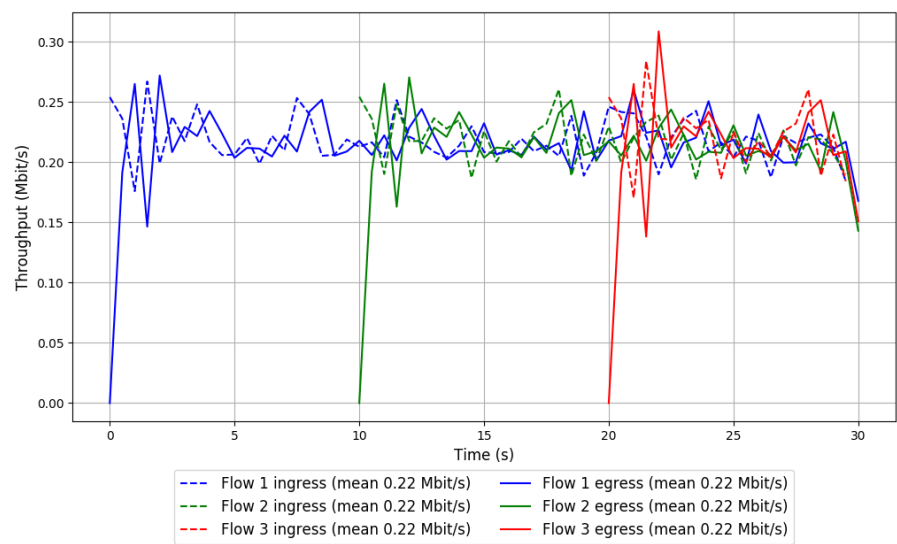


Run 5: Statistics of SReAM

Start at: 2019-07-12 18:29:11  
End at: 2019-07-12 18:29:41  
Local clock offset: -2.661 ms  
Remote clock offset: -0.869 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 100.941 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.947 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.929 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 100.622 ms  
Loss rate: 1.84%

Run 5: Report of SReAM — Data Link

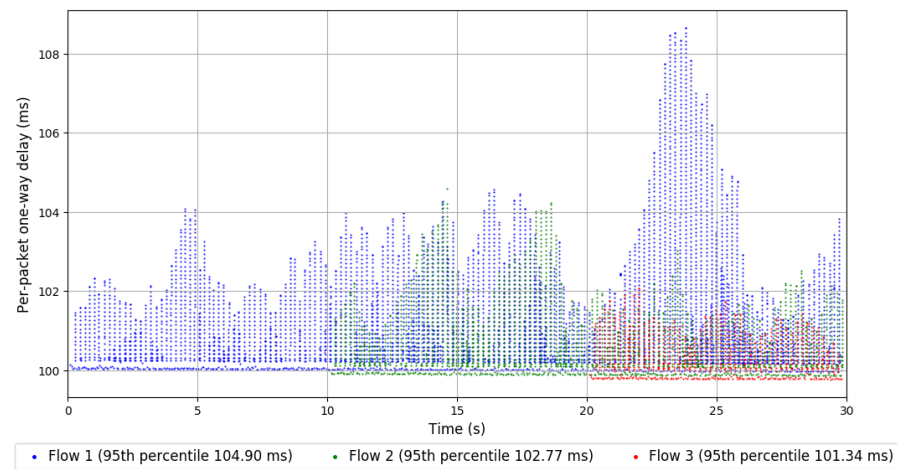
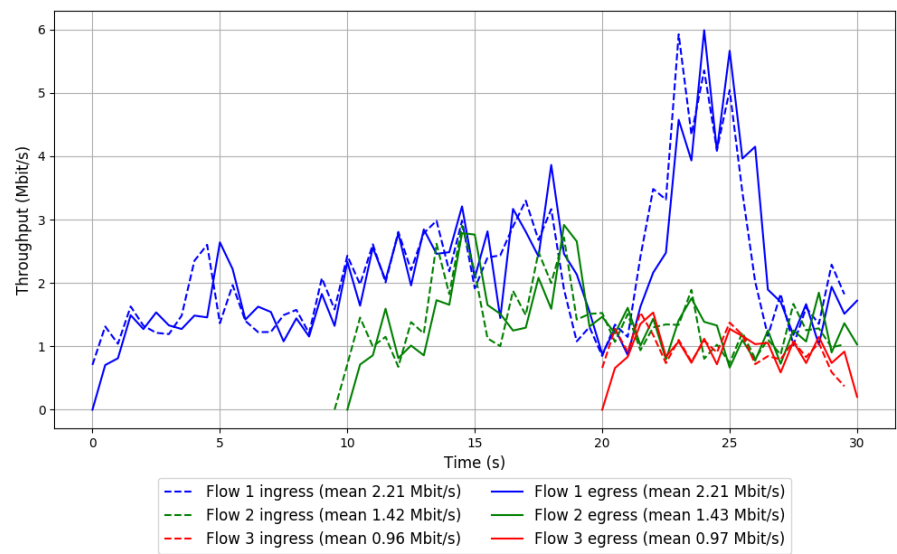


Run 1: Statistics of Sprout

Start at: 2019-07-12 16:21:33  
End at: 2019-07-12 16:22:03  
Local clock offset: -0.29 ms  
Remote clock offset: -12.26 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.47 Mbit/s  
95th percentile per-packet one-way delay: 104.005 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 2.21 Mbit/s  
95th percentile per-packet one-way delay: 104.899 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 1.43 Mbit/s  
95th percentile per-packet one-way delay: 102.770 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 0.97 Mbit/s  
95th percentile per-packet one-way delay: 101.337 ms  
Loss rate: 0.97%

Run 1: Report of Sprout — Data Link

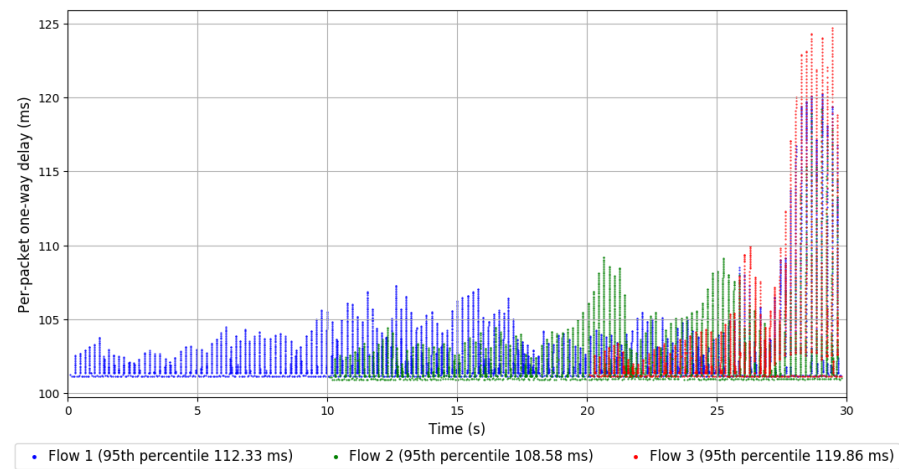
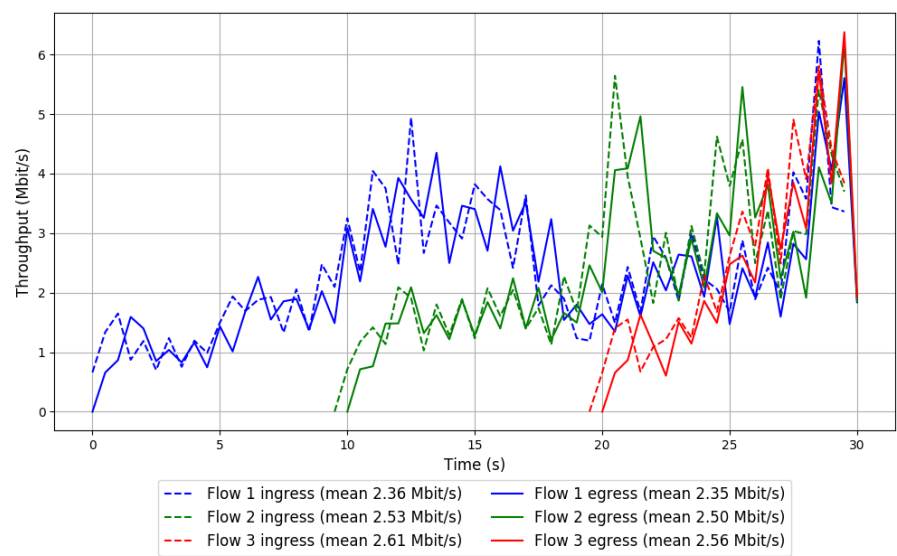


Run 2: Statistics of Sprout

Start at: 2019-07-12 16:53:07  
End at: 2019-07-12 16:53:37  
Local clock offset: 1.186 ms  
Remote clock offset: -8.177 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.84 Mbit/s  
95th percentile per-packet one-way delay: 113.821 ms  
Loss rate: 1.80%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 112.327 ms  
Loss rate: 1.08%  
-- Flow 2:  
Average throughput: 2.50 Mbit/s  
95th percentile per-packet one-way delay: 108.576 ms  
Loss rate: 1.83%  
-- Flow 3:  
Average throughput: 2.56 Mbit/s  
95th percentile per-packet one-way delay: 119.862 ms  
Loss rate: 3.71%

Run 2: Report of Sprout — Data Link



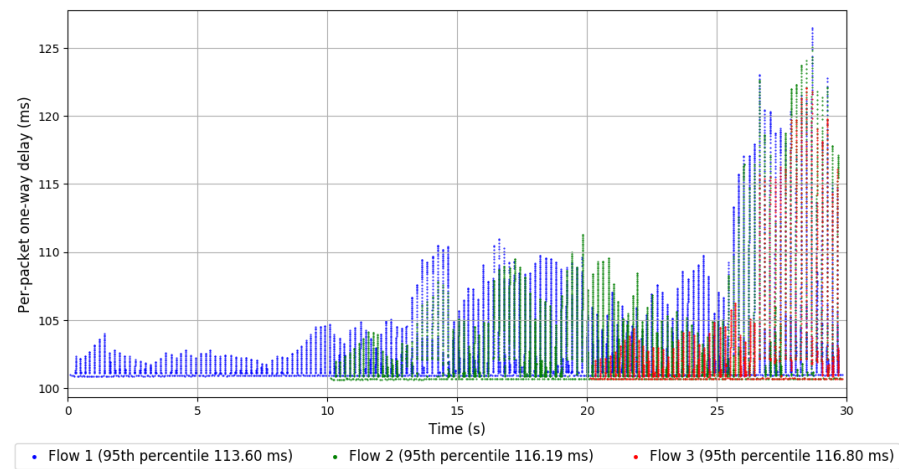
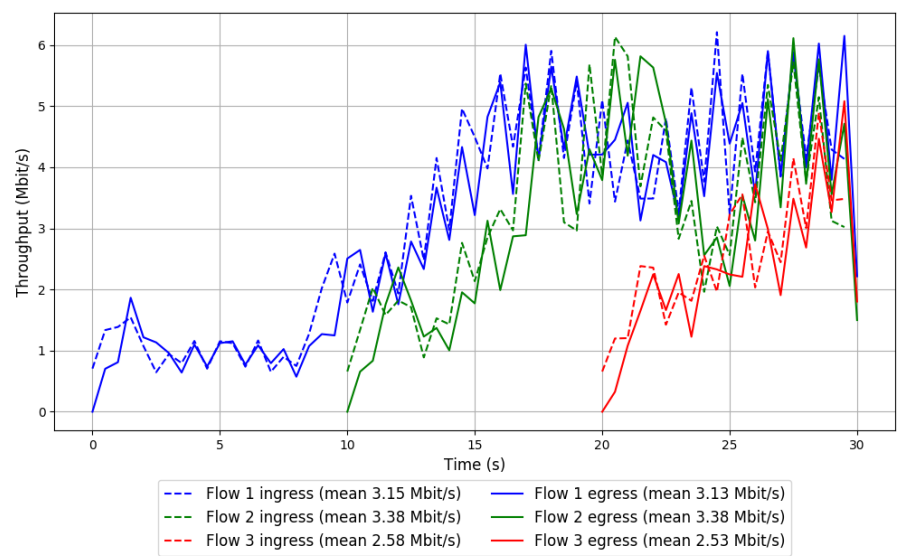


### Run 3: Statistics of Sprout

Start at: 2019-07-12 17:24:18  
End at: 2019-07-12 17:24:48  
Local clock offset: -3.918 ms  
Remote clock offset: -4.906 ms

```
# Below is generated by plot.py at 2019-07-12 18:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.19 Mbit/s
95th percentile per-packet one-way delay: 115.335 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 3.13 Mbit/s
95th percentile per-packet one-way delay: 113.604 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 116.189 ms
Loss rate: 1.13%
-- Flow 3:
Average throughput: 2.53 Mbit/s
95th percentile per-packet one-way delay: 116.801 ms
Loss rate: 3.32%
```

Run 3: Report of Sprout — Data Link

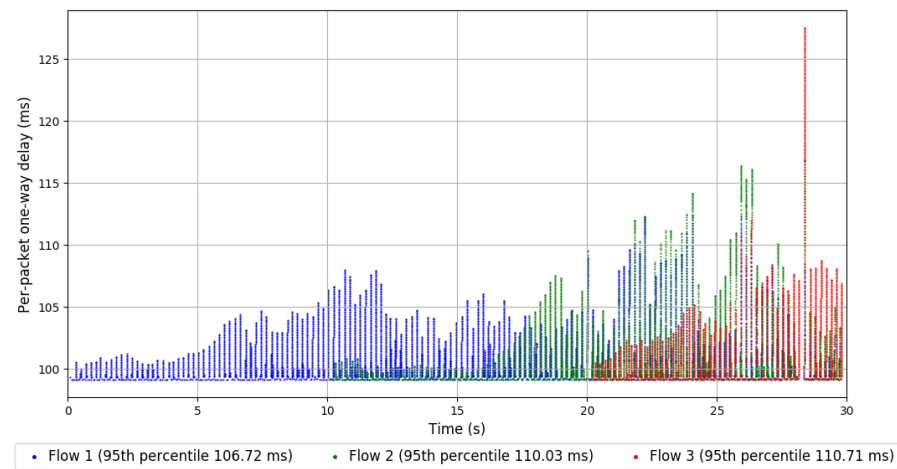
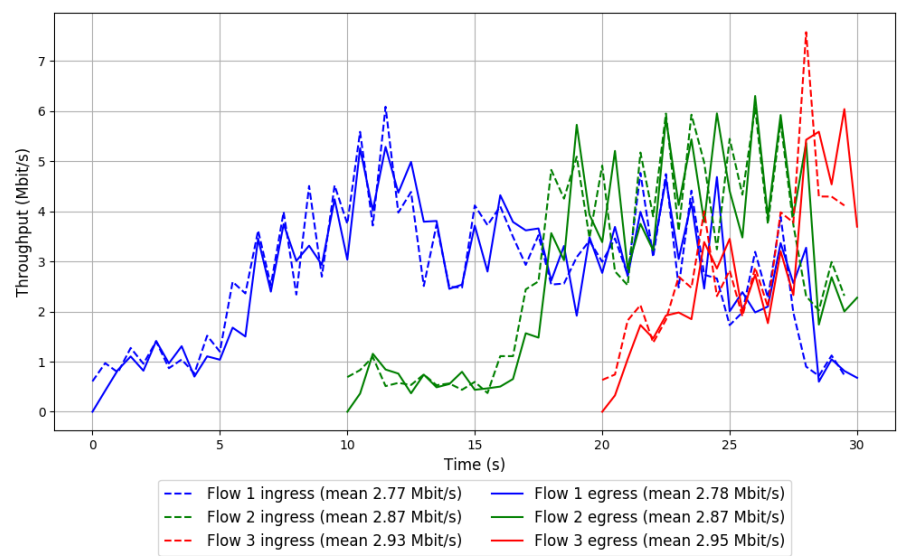


#### Run 4: Statistics of Sprout

Start at: 2019-07-12 17:55:26  
End at: 2019-07-12 17:55:56  
Local clock offset: -3.395 ms  
Remote clock offset: -2.291 ms

```
# Below is generated by plot.py at 2019-07-12 18:48:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.64 Mbit/s
95th percentile per-packet one-way delay: 108.143 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 106.720 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 2.87 Mbit/s
95th percentile per-packet one-way delay: 110.025 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 110.709 ms
Loss rate: 0.74%
```

Run 4: Report of Sprout — Data Link

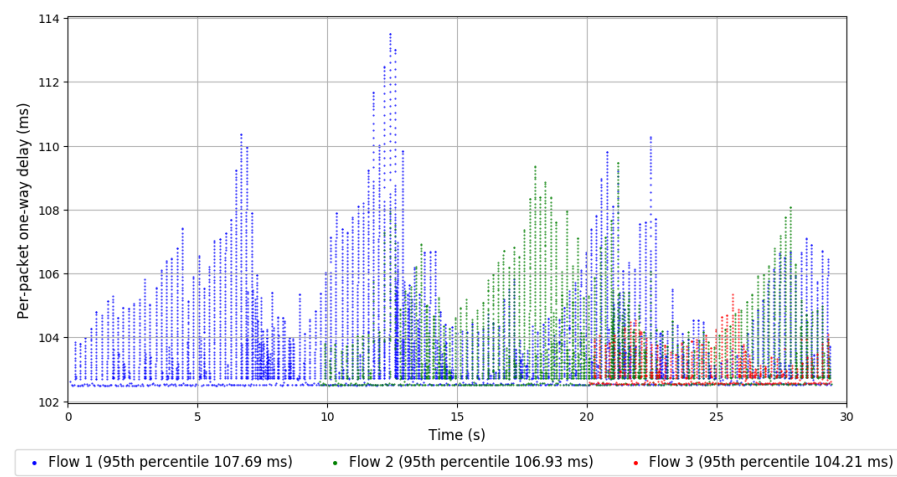
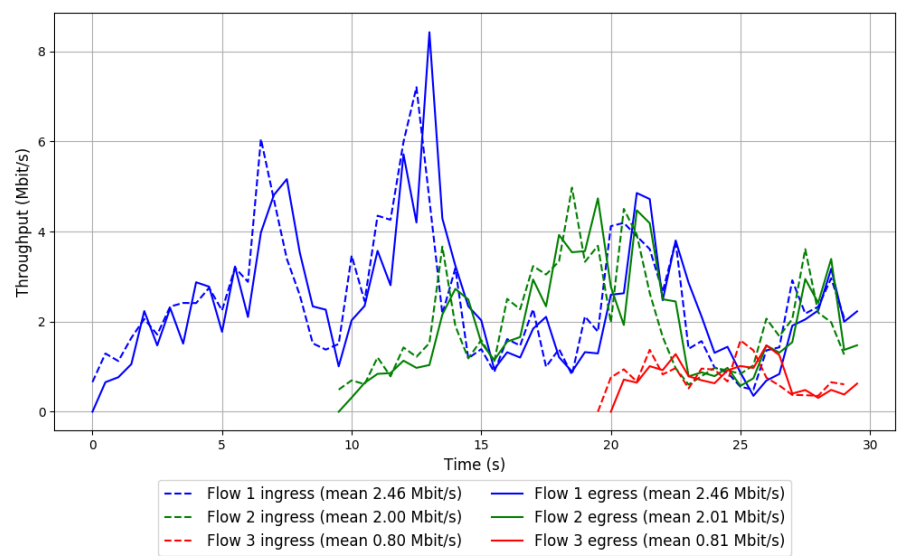


Run 5: Statistics of Sprout

Start at: 2019-07-12 18:27:51  
End at: 2019-07-12 18:28:21  
Local clock offset: -3.448 ms  
Remote clock offset: -3.702 ms

# Below is generated by plot.py at 2019-07-12 18:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.07 Mbit/s  
95th percentile per-packet one-way delay: 107.308 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 2.46 Mbit/s  
95th percentile per-packet one-way delay: 107.695 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 2.01 Mbit/s  
95th percentile per-packet one-way delay: 106.933 ms  
Loss rate: 0.52%  
-- Flow 3:  
Average throughput: 0.81 Mbit/s  
95th percentile per-packet one-way delay: 104.206 ms  
Loss rate: 1.70%

Run 5: Report of Sprout — Data Link

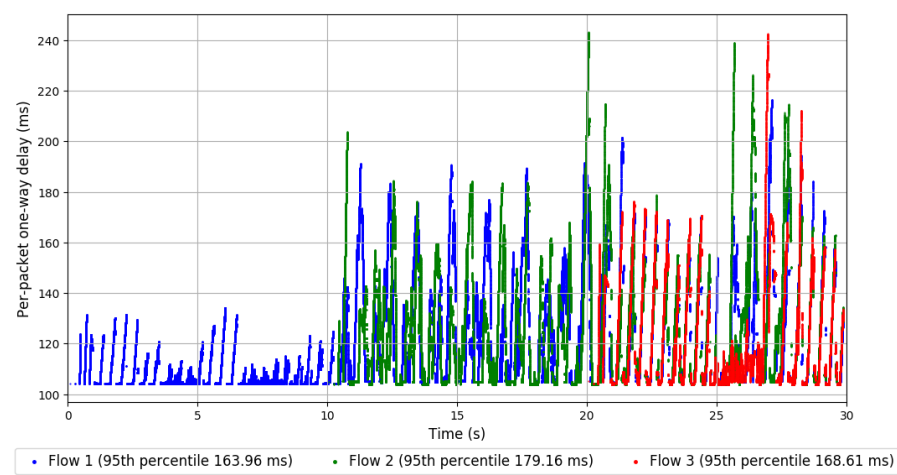
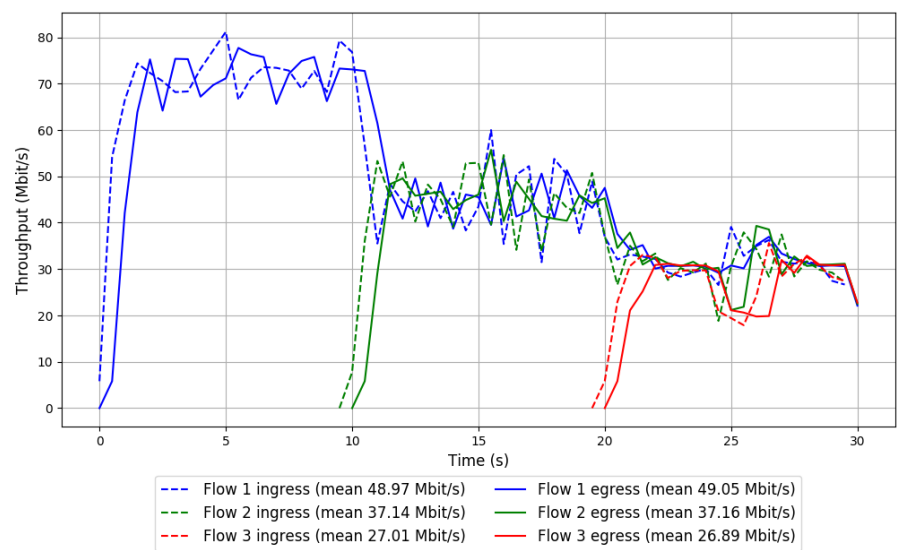


Run 1: Statistics of TaoVA-100x

Start at: 2019-07-12 16:28:00  
End at: 2019-07-12 16:28:30  
Local clock offset: -0.431 ms  
Remote clock offset: -17.144 ms

# Below is generated by plot.py at 2019-07-12 18:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.62 Mbit/s  
95th percentile per-packet one-way delay: 168.992 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 49.05 Mbit/s  
95th percentile per-packet one-way delay: 163.959 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 37.16 Mbit/s  
95th percentile per-packet one-way delay: 179.163 ms  
Loss rate: 0.82%  
-- Flow 3:  
Average throughput: 26.89 Mbit/s  
95th percentile per-packet one-way delay: 168.612 ms  
Loss rate: 2.19%

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



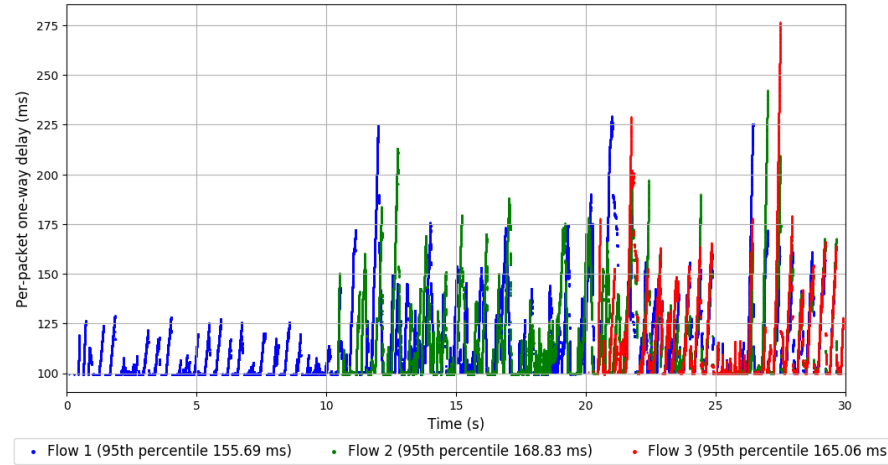
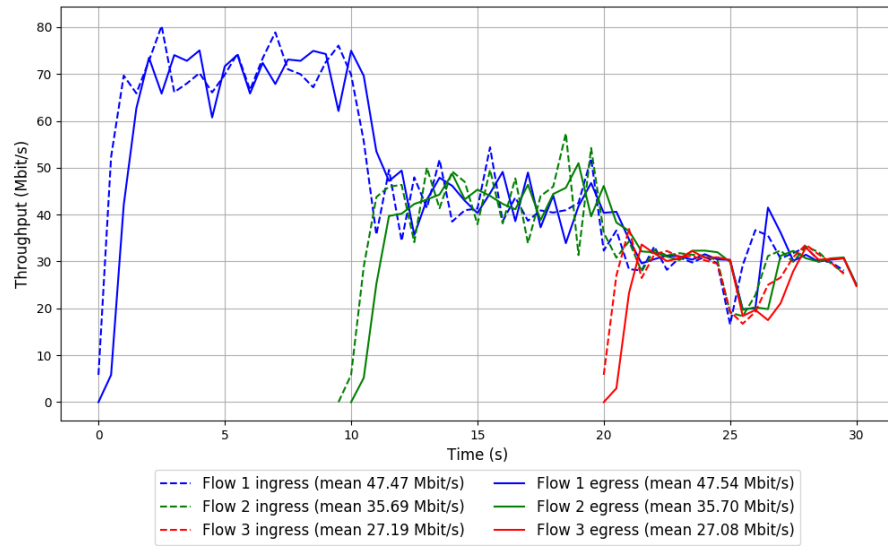


Run 2: Statistics of TaoVA-100x

Start at: 2019-07-12 16:59:27  
End at: 2019-07-12 16:59:57  
Local clock offset: 1.49 ms  
Remote clock offset: -5.079 ms

# Below is generated by plot.py at 2019-07-12 18:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.16 Mbit/s  
95th percentile per-packet one-way delay: 162.325 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 47.54 Mbit/s  
95th percentile per-packet one-way delay: 155.685 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 35.70 Mbit/s  
95th percentile per-packet one-way delay: 168.829 ms  
Loss rate: 0.84%  
-- Flow 3:  
Average throughput: 27.08 Mbit/s  
95th percentile per-packet one-way delay: 165.061 ms  
Loss rate: 2.12%

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

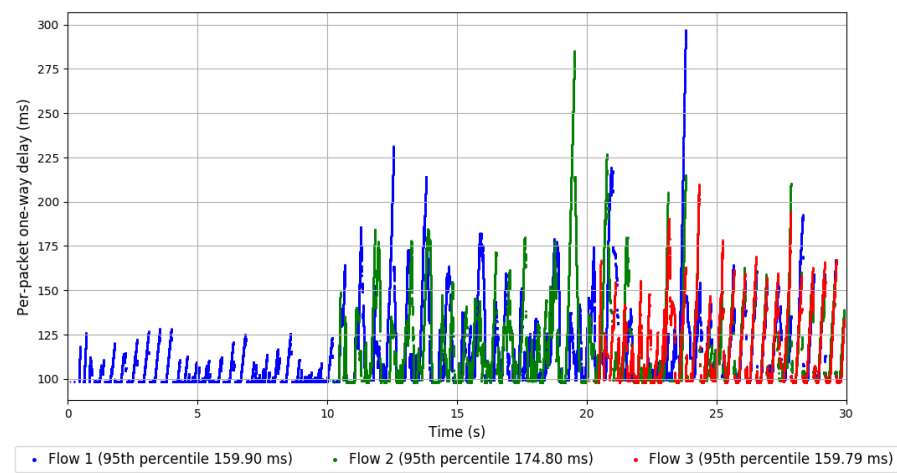
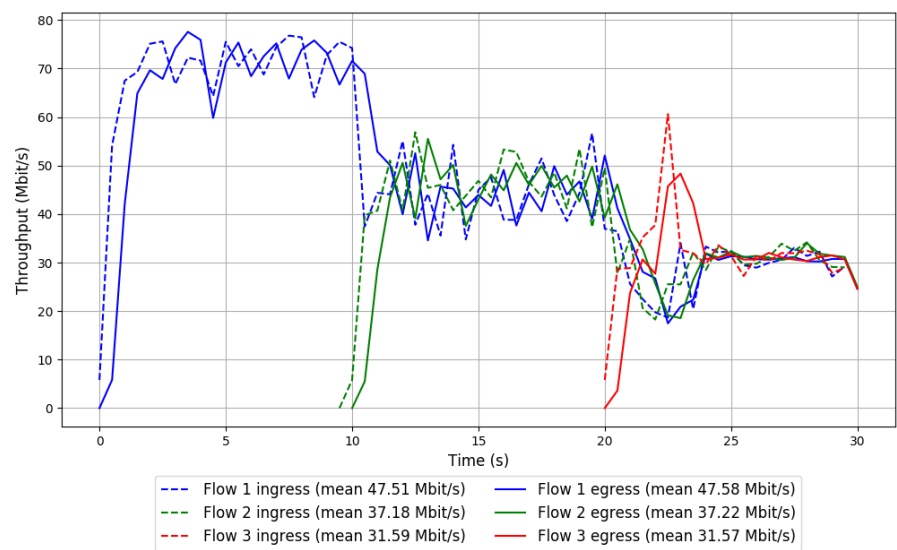


Run 3: Statistics of TaoVA-100x

Start at: 2019-07-12 17:30:39  
End at: 2019-07-12 17:31:09  
Local clock offset: -4.668 ms  
Remote clock offset: -2.792 ms

# Below is generated by plot.py at 2019-07-12 18:49:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.69 Mbit/s  
95th percentile per-packet one-way delay: 166.357 ms  
Loss rate: 0.70%  
-- Flow 1:  
Average throughput: 47.58 Mbit/s  
95th percentile per-packet one-way delay: 159.898 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 37.22 Mbit/s  
95th percentile per-packet one-way delay: 174.796 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 31.57 Mbit/s  
95th percentile per-packet one-way delay: 159.794 ms  
Loss rate: 1.81%

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

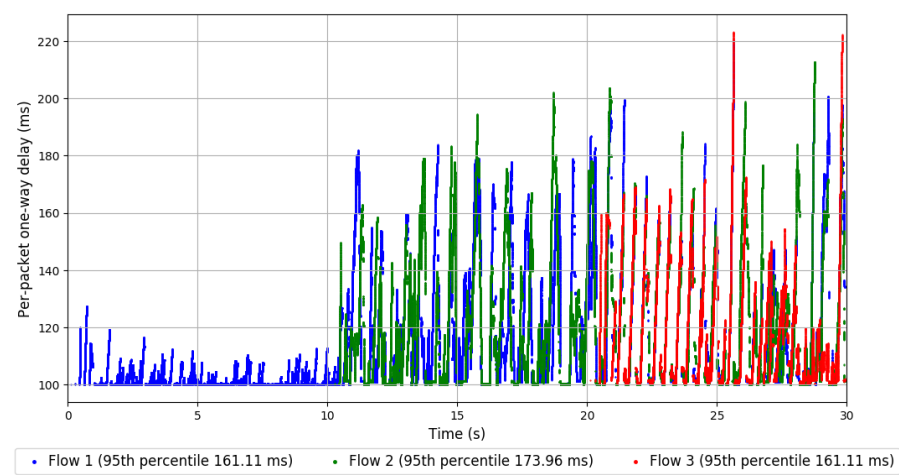
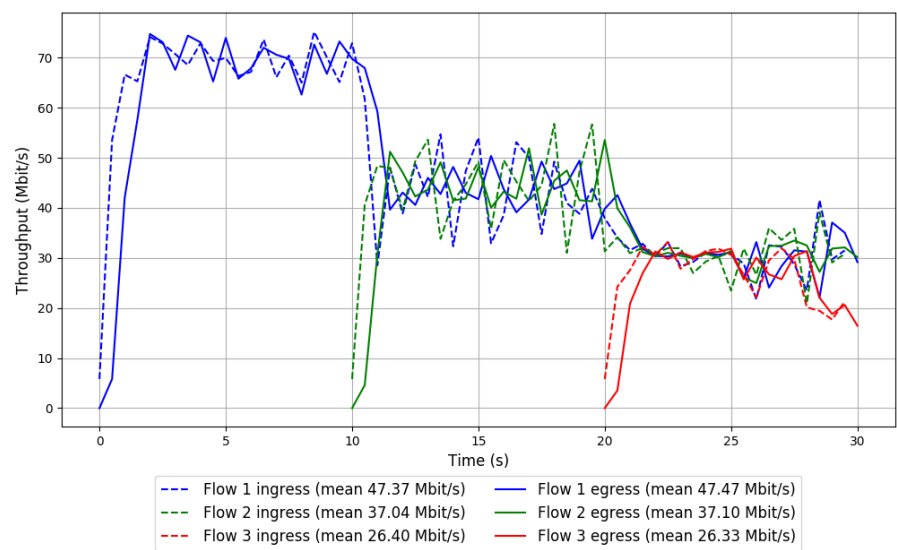


Run 4: Statistics of TaoVA-100x

Start at: 2019-07-12 18:01:46  
End at: 2019-07-12 18:02:16  
Local clock offset: -3.418 ms  
Remote clock offset: -2.892 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.76 Mbit/s  
95th percentile per-packet one-way delay: 166.163 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 47.47 Mbit/s  
95th percentile per-packet one-way delay: 161.107 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 37.10 Mbit/s  
95th percentile per-packet one-way delay: 173.963 ms  
Loss rate: 0.69%  
-- Flow 3:  
Average throughput: 26.33 Mbit/s  
95th percentile per-packet one-way delay: 161.108 ms  
Loss rate: 1.51%

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

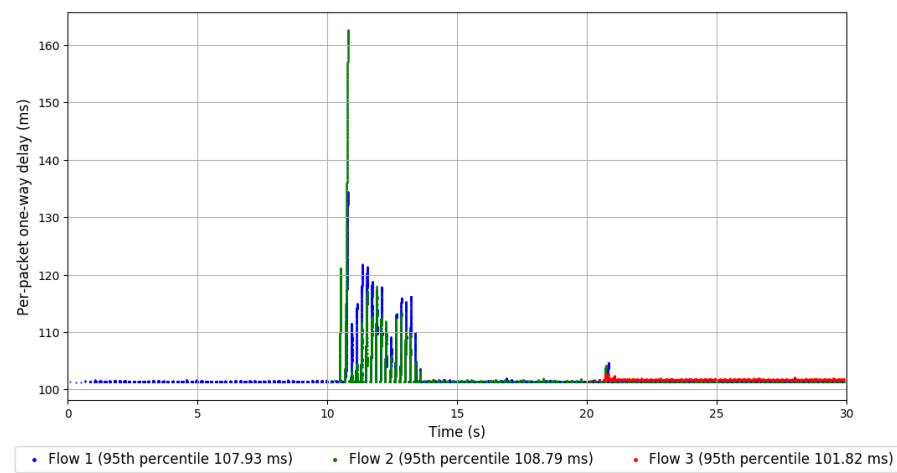
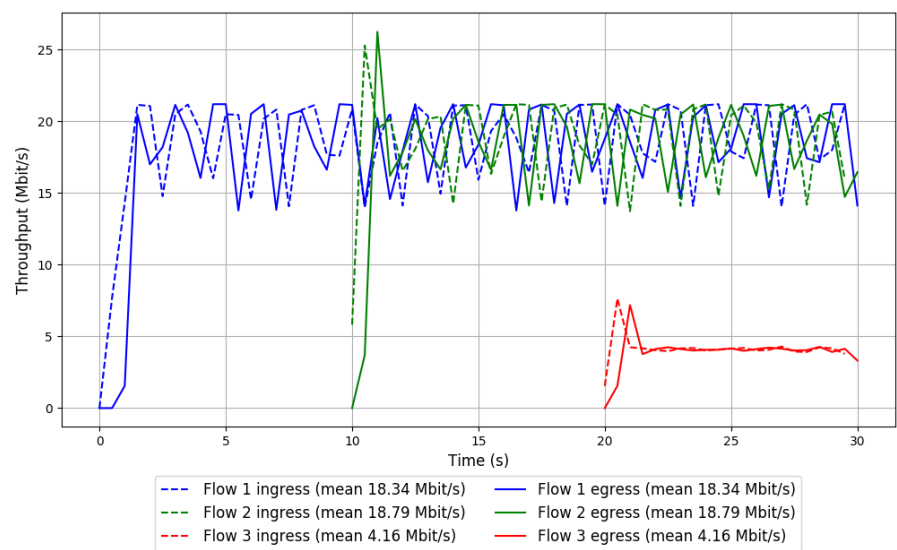


Run 5: Statistics of TaoVA-100x

Start at: 2019-07-12 18:34:49  
End at: 2019-07-12 18:35:19  
Local clock offset: -2.171 ms  
Remote clock offset: -1.211 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 32.16 Mbit/s  
95th percentile per-packet one-way delay: 107.981 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 18.34 Mbit/s  
95th percentile per-packet one-way delay: 107.933 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 18.79 Mbit/s  
95th percentile per-packet one-way delay: 108.786 ms  
Loss rate: 0.86%  
-- Flow 3:  
Average throughput: 4.16 Mbit/s  
95th percentile per-packet one-way delay: 101.818 ms  
Loss rate: 1.66%

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



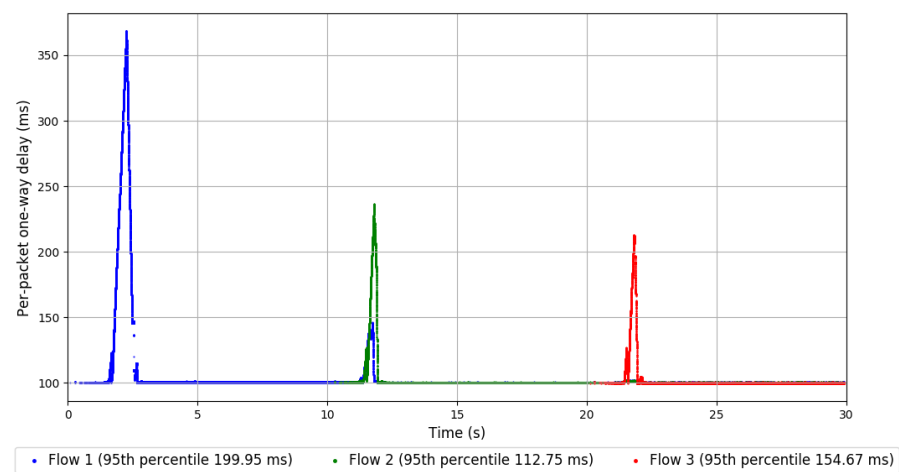
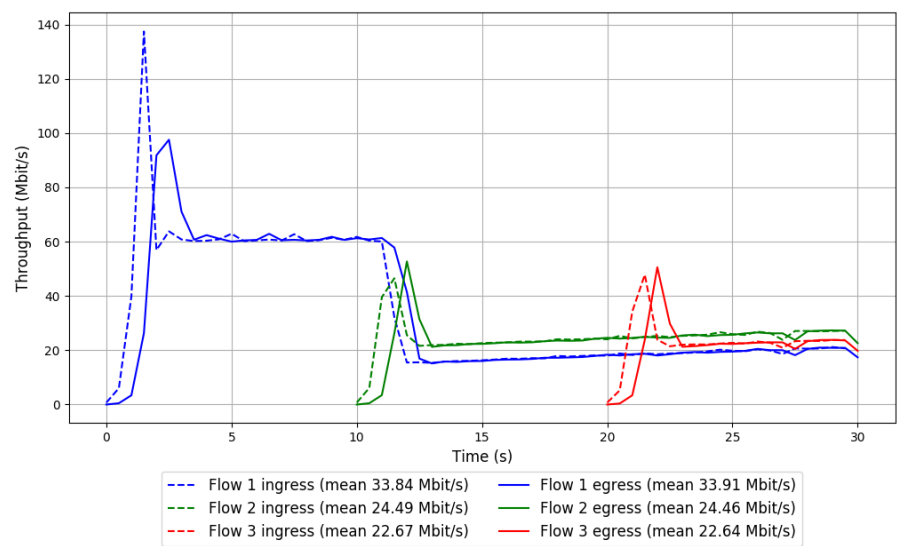


Run 1: Statistics of TCP Vegas

Start at: 2019-07-12 16:11:06  
End at: 2019-07-12 16:11:36  
Local clock offset: -2.182 ms  
Remote clock offset: -12.114 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.59 Mbit/s  
95th percentile per-packet one-way delay: 164.235 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 33.91 Mbit/s  
95th percentile per-packet one-way delay: 199.946 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 24.46 Mbit/s  
95th percentile per-packet one-way delay: 112.746 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 22.64 Mbit/s  
95th percentile per-packet one-way delay: 154.673 ms  
Loss rate: 1.90%

Run 1: Report of TCP Vegas — Data Link

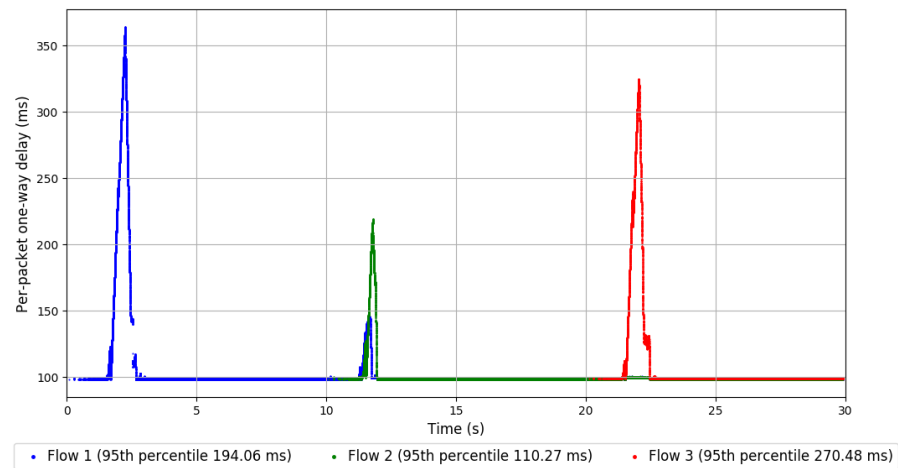
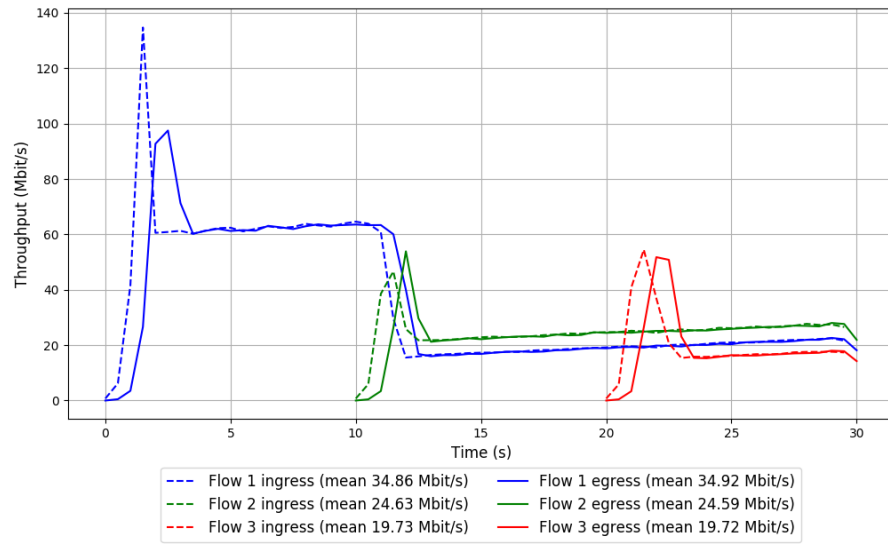


Run 2: Statistics of TCP Vegas

Start at: 2019-07-12 16:42:43  
End at: 2019-07-12 16:43:13  
Local clock offset: 0.646 ms  
Remote clock offset: -6.709 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 57.72 Mbit/s  
95th percentile per-packet one-way delay: 189.570 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 34.92 Mbit/s  
95th percentile per-packet one-way delay: 194.056 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 24.59 Mbit/s  
95th percentile per-packet one-way delay: 110.271 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 19.72 Mbit/s  
95th percentile per-packet one-way delay: 270.478 ms  
Loss rate: 1.76%

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

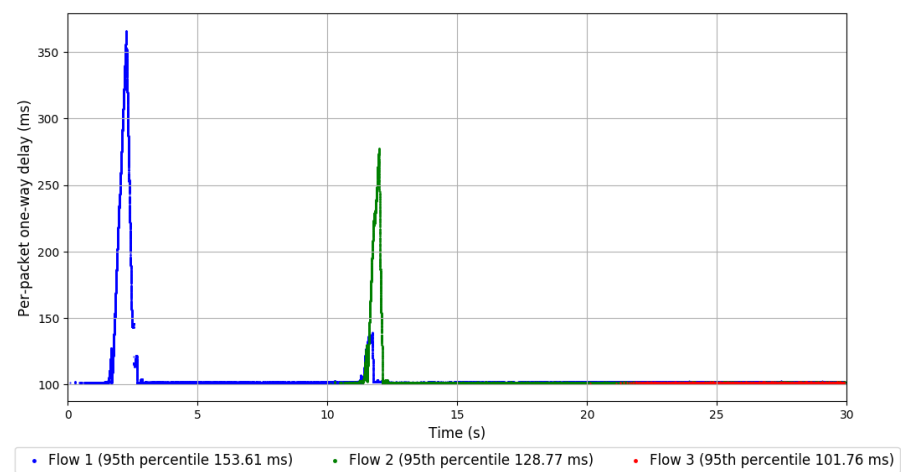
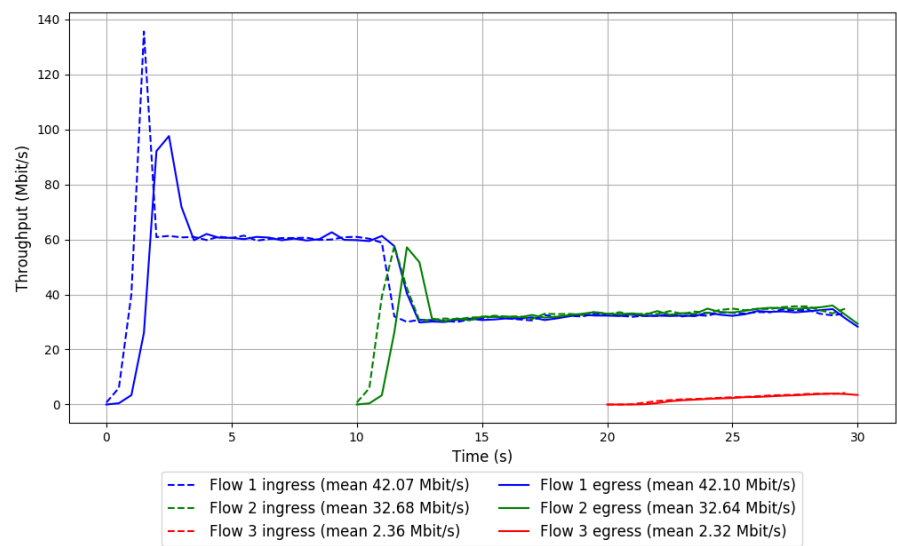


Run 3: Statistics of TCP Vegas

Start at: 2019-07-12 17:13:55  
End at: 2019-07-12 17:14:25  
Local clock offset: -2.997 ms  
Remote clock offset: -6.056 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.55 Mbit/s  
95th percentile per-packet one-way delay: 145.736 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 42.10 Mbit/s  
95th percentile per-packet one-way delay: 153.611 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 32.64 Mbit/s  
95th percentile per-packet one-way delay: 128.769 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 2.32 Mbit/s  
95th percentile per-packet one-way delay: 101.758 ms  
Loss rate: 3.26%

Run 3: Report of TCP Vegas — Data Link

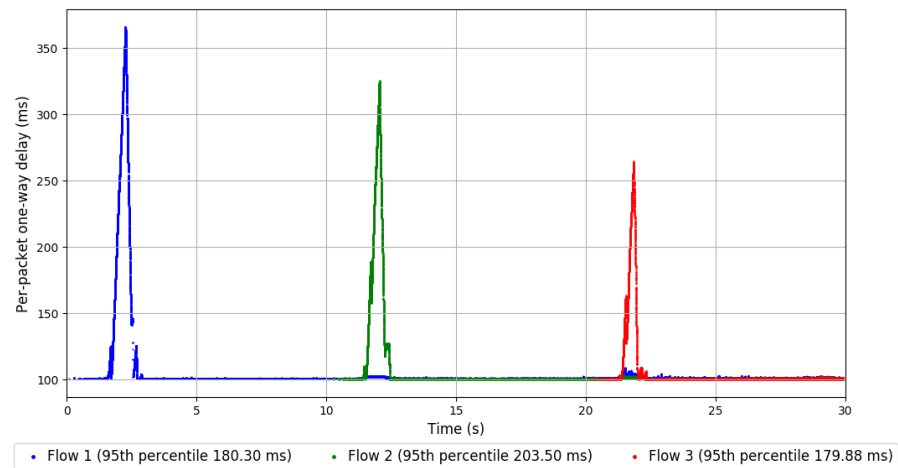
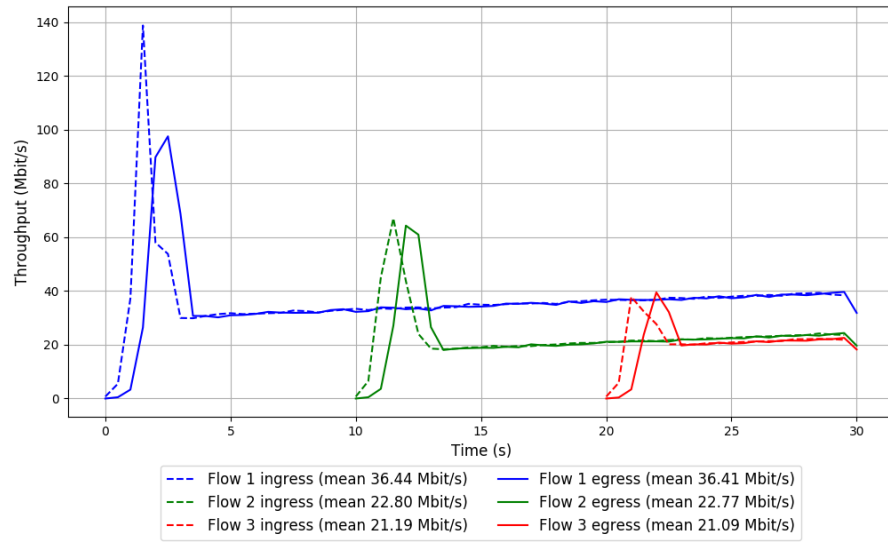


Run 4: Statistics of TCP Vegas

Start at: 2019-07-12 17:45:01  
End at: 2019-07-12 17:45:32  
Local clock offset: -3.243 ms  
Remote clock offset: -4.075 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.46 Mbit/s  
95th percentile per-packet one-way delay: 188.477 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 36.41 Mbit/s  
95th percentile per-packet one-way delay: 180.302 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 22.77 Mbit/s  
95th percentile per-packet one-way delay: 203.497 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 21.09 Mbit/s  
95th percentile per-packet one-way delay: 179.883 ms  
Loss rate: 2.19%

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



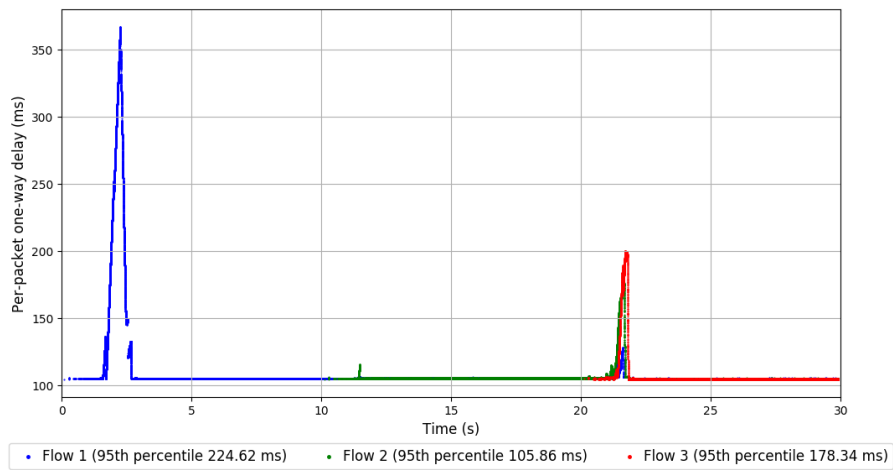
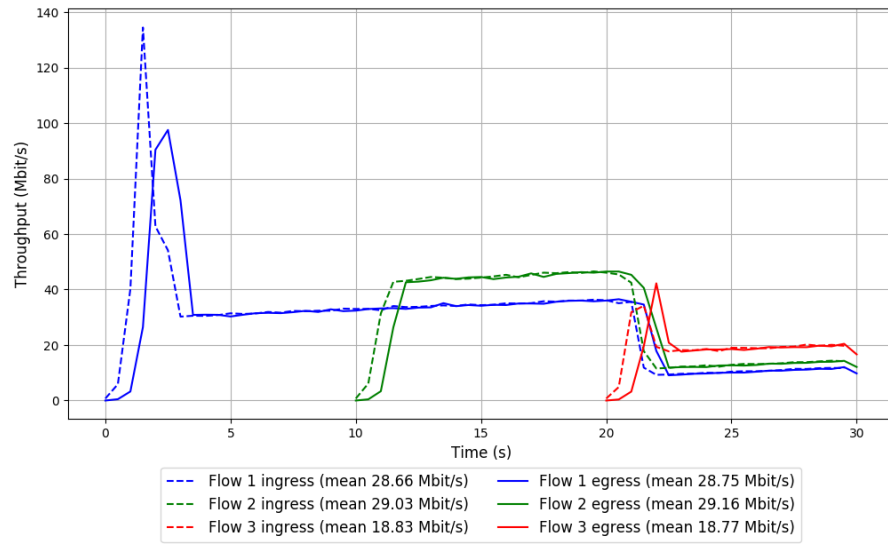


Run 5: Statistics of TCP Vegas

Start at: 2019-07-12 18:17:05  
End at: 2019-07-12 18:17:35  
Local clock offset: -2.47 ms  
Remote clock offset: -5.101 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.28 Mbit/s  
95th percentile per-packet one-way delay: 159.068 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 28.75 Mbit/s  
95th percentile per-packet one-way delay: 224.620 ms  
Loss rate: 0.29%  
-- Flow 2:  
Average throughput: 29.16 Mbit/s  
95th percentile per-packet one-way delay: 105.855 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 18.77 Mbit/s  
95th percentile per-packet one-way delay: 178.337 ms  
Loss rate: 2.14%

# Run 5: Report of TCP Vegas — Data Link

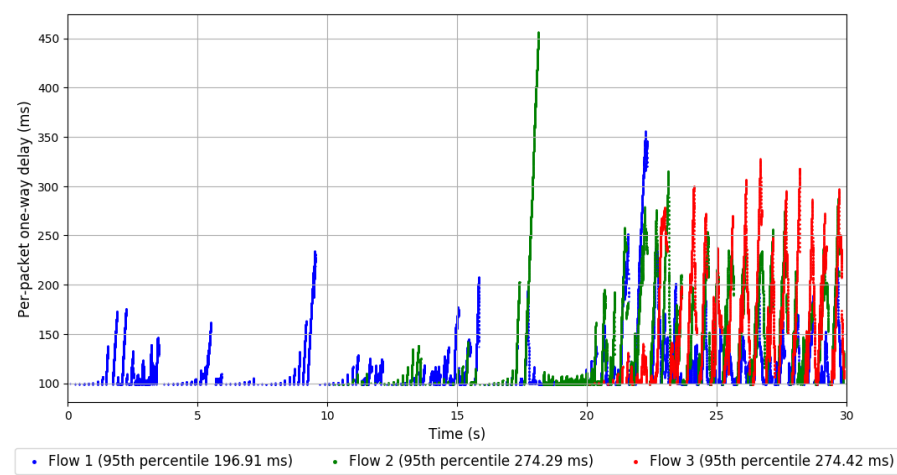
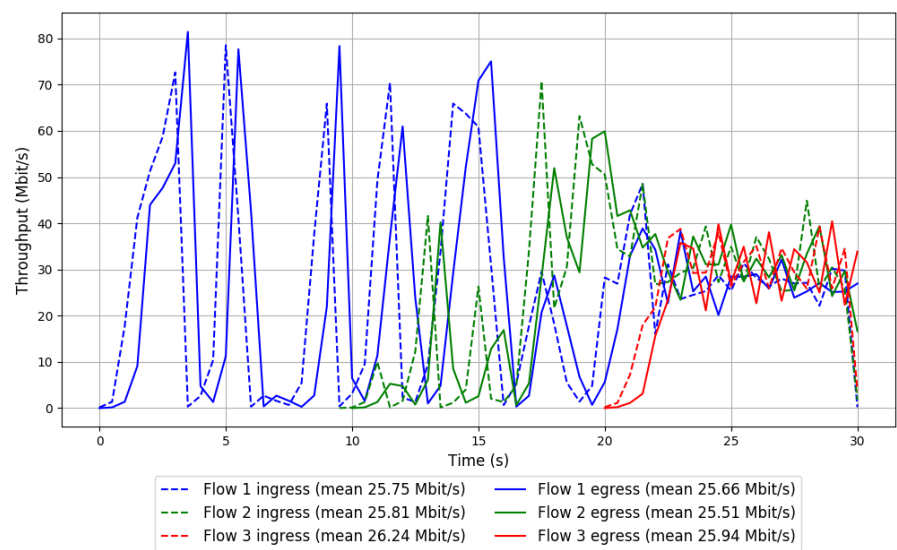


Run 1: Statistics of Verus

Start at: 2019-07-12 16:04:32  
End at: 2019-07-12 16:05:02  
Local clock offset: -5.02 ms  
Remote clock offset: -11.94 ms

# Below is generated by plot.py at 2019-07-12 18:49:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.12 Mbit/s  
95th percentile per-packet one-way delay: 252.243 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 25.66 Mbit/s  
95th percentile per-packet one-way delay: 196.915 ms  
Loss rate: 1.12%  
-- Flow 2:  
Average throughput: 25.51 Mbit/s  
95th percentile per-packet one-way delay: 274.289 ms  
Loss rate: 2.62%  
-- Flow 3:  
Average throughput: 25.94 Mbit/s  
95th percentile per-packet one-way delay: 274.419 ms  
Loss rate: 4.62%

Run 1: Report of Verus — Data Link

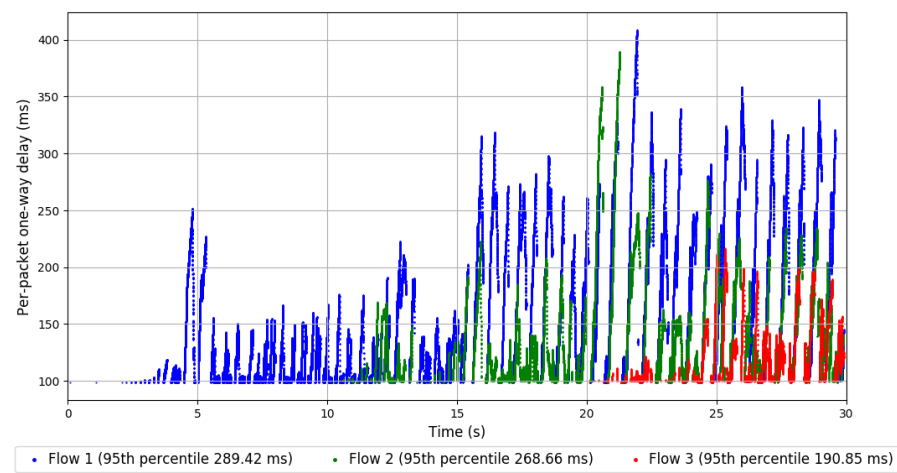
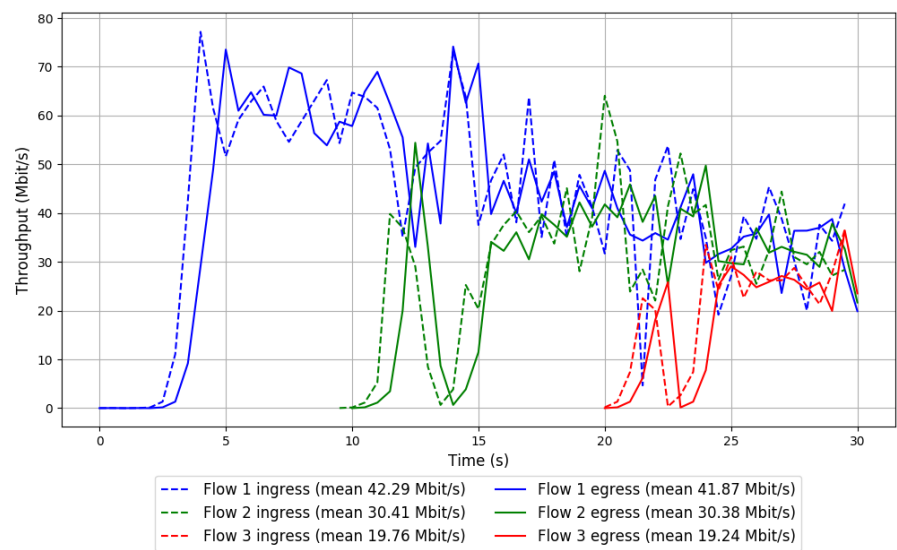


Run 2: Statistics of Verus

Start at: 2019-07-12 16:36:08  
End at: 2019-07-12 16:36:38  
Local clock offset: 0.245 ms  
Remote clock offset: -8.235 ms

# Below is generated by plot.py at 2019-07-12 18:49:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 68.35 Mbit/s  
95th percentile per-packet one-way delay: 281.957 ms  
Loss rate: 1.63%  
-- Flow 1:  
Average throughput: 41.87 Mbit/s  
95th percentile per-packet one-way delay: 289.415 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 30.38 Mbit/s  
95th percentile per-packet one-way delay: 268.662 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 19.24 Mbit/s  
95th percentile per-packet one-way delay: 190.854 ms  
Loss rate: 4.21%

Run 2: Report of Verus — Data Link

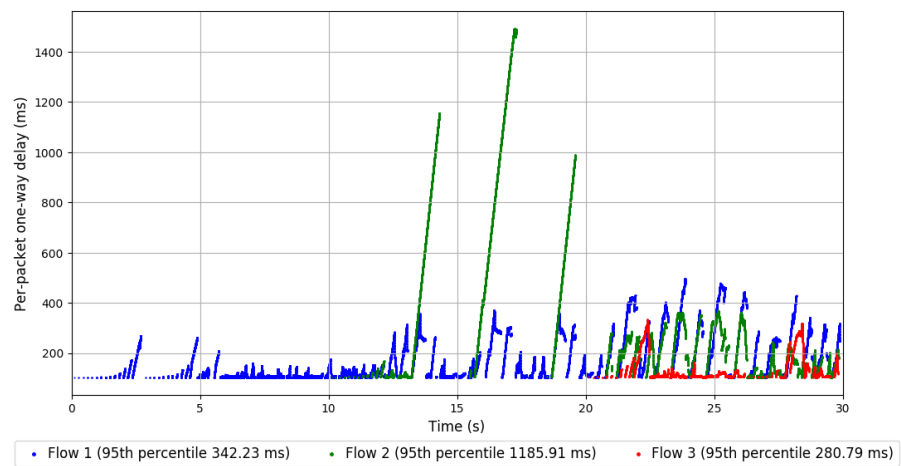
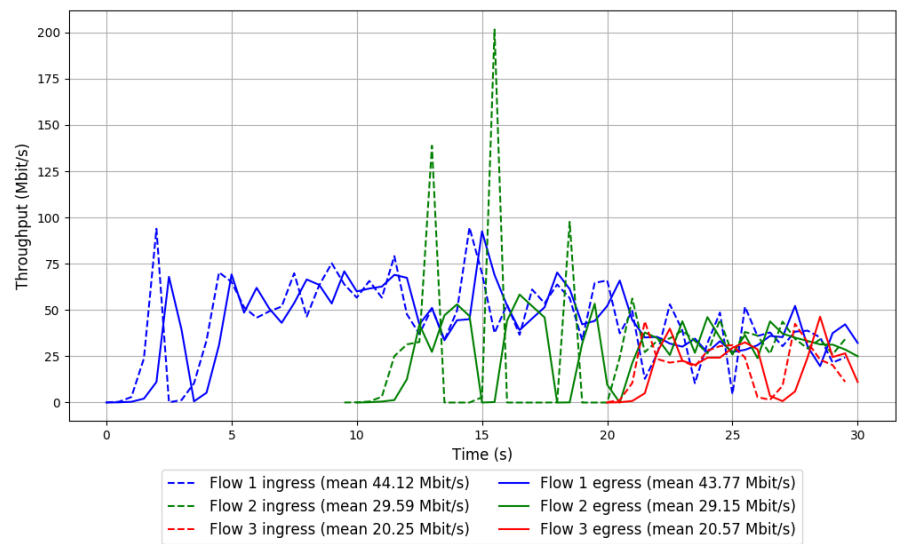


Run 3: Statistics of Verus

Start at: 2019-07-12 17:07:19  
End at: 2019-07-12 17:07:49  
Local clock offset: -1.468 ms  
Remote clock offset: -7.948 ms

# Below is generated by plot.py at 2019-07-12 18:50:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 69.78 Mbit/s  
95th percentile per-packet one-way delay: 693.939 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 43.77 Mbit/s  
95th percentile per-packet one-way delay: 342.231 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 29.15 Mbit/s  
95th percentile per-packet one-way delay: 1185.908 ms  
Loss rate: 2.60%  
-- Flow 3:  
Average throughput: 20.57 Mbit/s  
95th percentile per-packet one-way delay: 280.785 ms  
Loss rate: 0.24%

Run 3: Report of Verus — Data Link



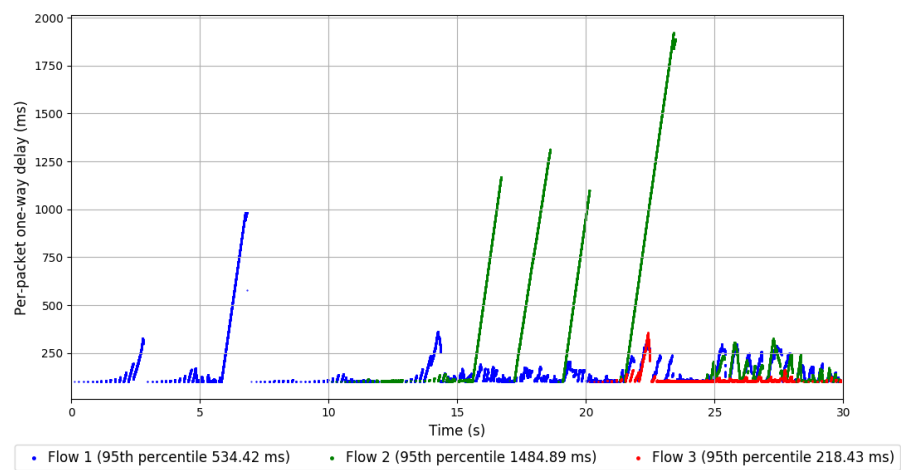
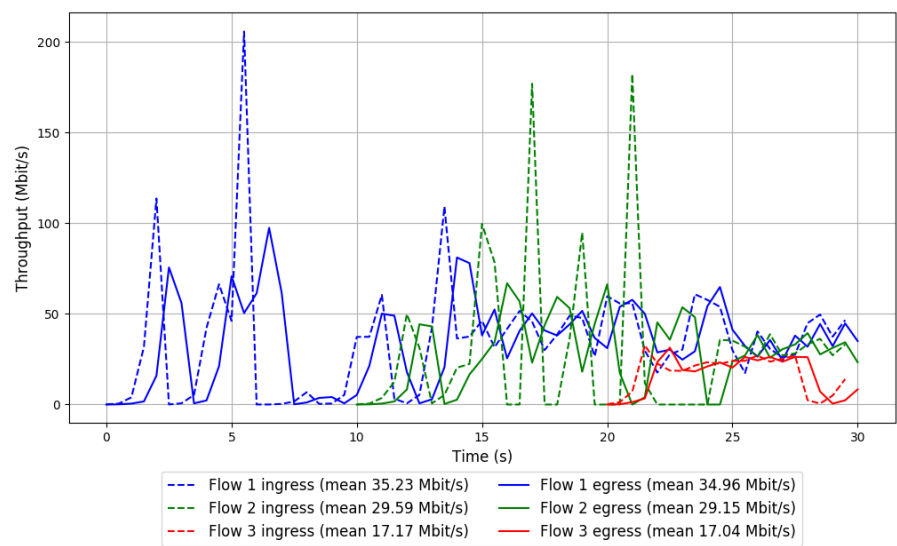


Run 4: Statistics of Verus

Start at: 2019-07-12 17:38:30  
End at: 2019-07-12 17:39:00  
Local clock offset: -2.799 ms  
Remote clock offset: -4.814 ms

# Below is generated by plot.py at 2019-07-12 18:50:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.83 Mbit/s  
95th percentile per-packet one-way delay: 1022.282 ms  
Loss rate: 1.89%  
-- Flow 1:  
Average throughput: 34.96 Mbit/s  
95th percentile per-packet one-way delay: 534.417 ms  
Loss rate: 1.33%  
-- Flow 2:  
Average throughput: 29.15 Mbit/s  
95th percentile per-packet one-way delay: 1484.887 ms  
Loss rate: 2.71%  
-- Flow 3:  
Average throughput: 17.04 Mbit/s  
95th percentile per-packet one-way delay: 218.431 ms  
Loss rate: 2.49%

Run 4: Report of Verus — Data Link

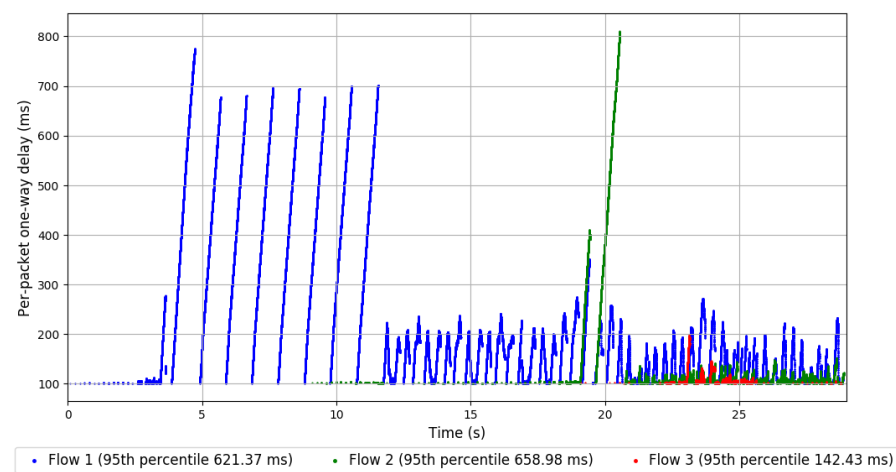
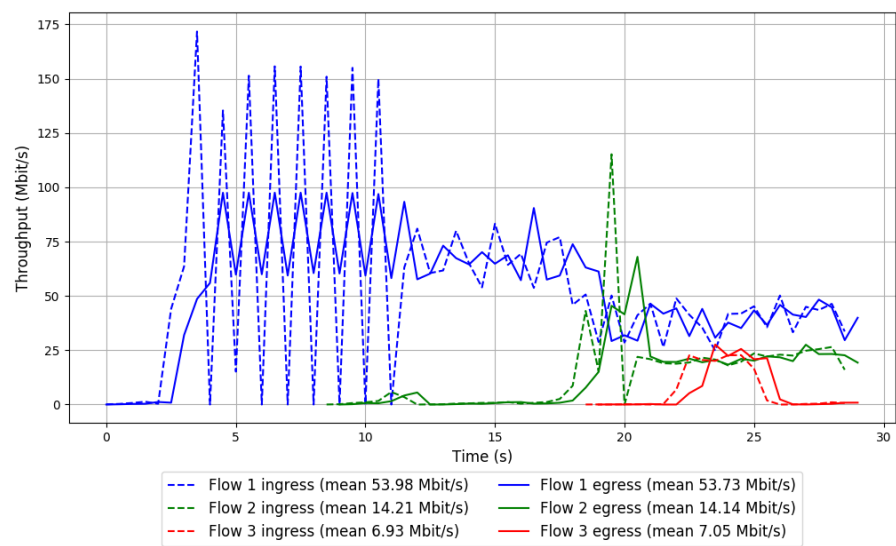


Run 5: Statistics of Verus

Start at: 2019-07-12 18:10:02  
End at: 2019-07-12 18:10:32  
Local clock offset: -3.212 ms  
Remote clock offset: -2.299 ms

# Below is generated by plot.py at 2019-07-12 18:50:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.83 Mbit/s  
95th percentile per-packet one-way delay: 623.533 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 53.73 Mbit/s  
95th percentile per-packet one-way delay: 621.371 ms  
Loss rate: 0.95%  
-- Flow 2:  
Average throughput: 14.14 Mbit/s  
95th percentile per-packet one-way delay: 658.975 ms  
Loss rate: 1.37%  
-- Flow 3:  
Average throughput: 7.05 Mbit/s  
95th percentile per-packet one-way delay: 142.431 ms  
Loss rate: 0.17%

Run 5: Report of Verus — Data Link

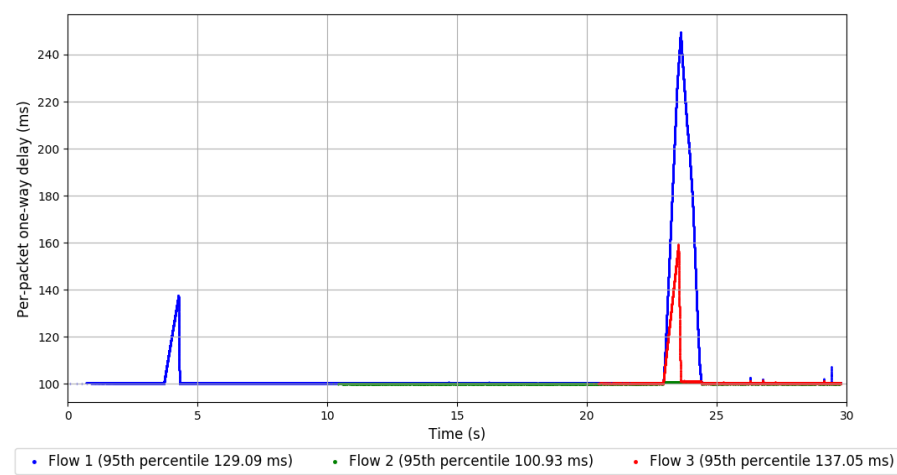
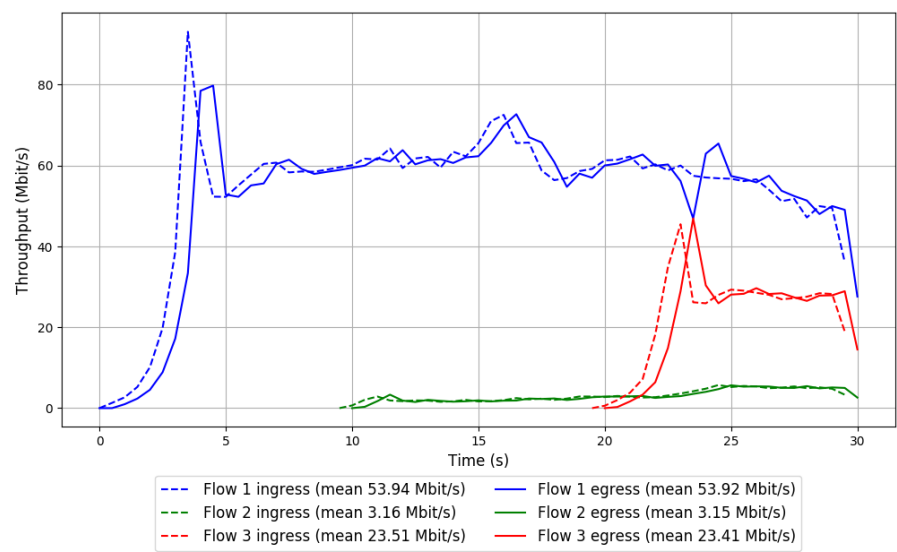


Run 1: Statistics of PCC-Vivace

Start at: 2019-07-12 16:26:39  
End at: 2019-07-12 16:27:09  
Local clock offset: -0.802 ms  
Remote clock offset: -13.531 ms

# Below is generated by plot.py at 2019-07-12 18:50:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.67 Mbit/s  
95th percentile per-packet one-way delay: 129.237 ms  
Loss rate: 0.82%  
-- Flow 1:  
Average throughput: 53.92 Mbit/s  
95th percentile per-packet one-way delay: 129.086 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 3.15 Mbit/s  
95th percentile per-packet one-way delay: 100.934 ms  
Loss rate: 1.24%  
-- Flow 3:  
Average throughput: 23.41 Mbit/s  
95th percentile per-packet one-way delay: 137.046 ms  
Loss rate: 2.16%

Run 1: Report of PCC-Vivace — Data Link

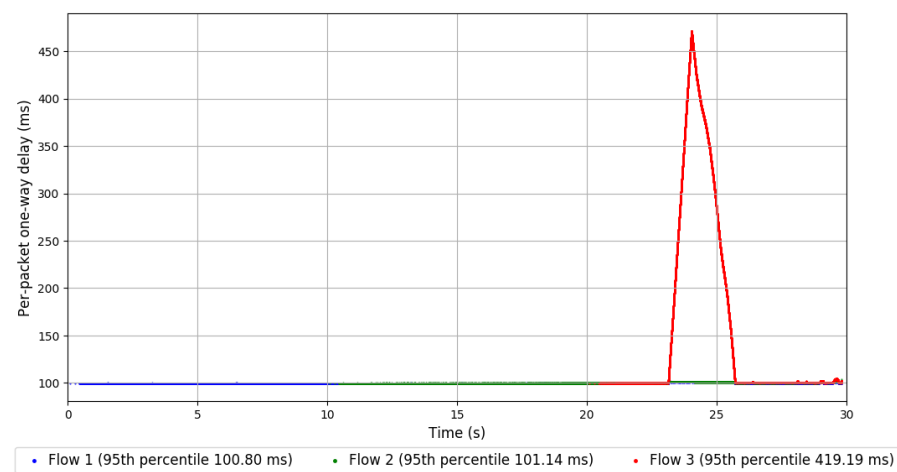
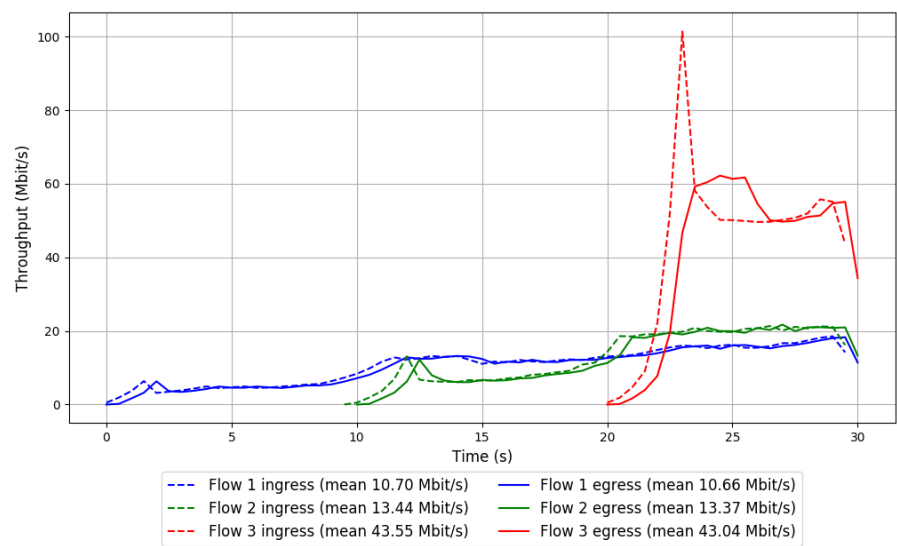


Run 2: Statistics of PCC-Vivace

Start at: 2019-07-12 16:58:10  
End at: 2019-07-12 16:58:40  
Local clock offset: 2.354 ms  
Remote clock offset: -5.392 ms

# Below is generated by plot.py at 2019-07-12 18:50:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 33.58 Mbit/s  
95th percentile per-packet one-way delay: 363.814 ms  
Loss rate: 1.91%  
-- Flow 1:  
Average throughput: 10.66 Mbit/s  
95th percentile per-packet one-way delay: 100.801 ms  
Loss rate: 1.03%  
-- Flow 2:  
Average throughput: 13.37 Mbit/s  
95th percentile per-packet one-way delay: 101.137 ms  
Loss rate: 1.39%  
-- Flow 3:  
Average throughput: 43.04 Mbit/s  
95th percentile per-packet one-way delay: 419.189 ms  
Loss rate: 2.89%

Run 2: Report of PCC-Vivace — Data Link



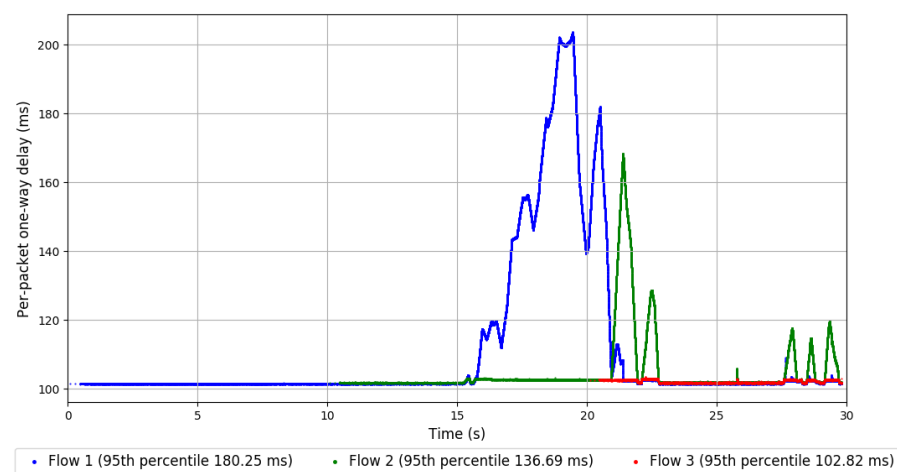
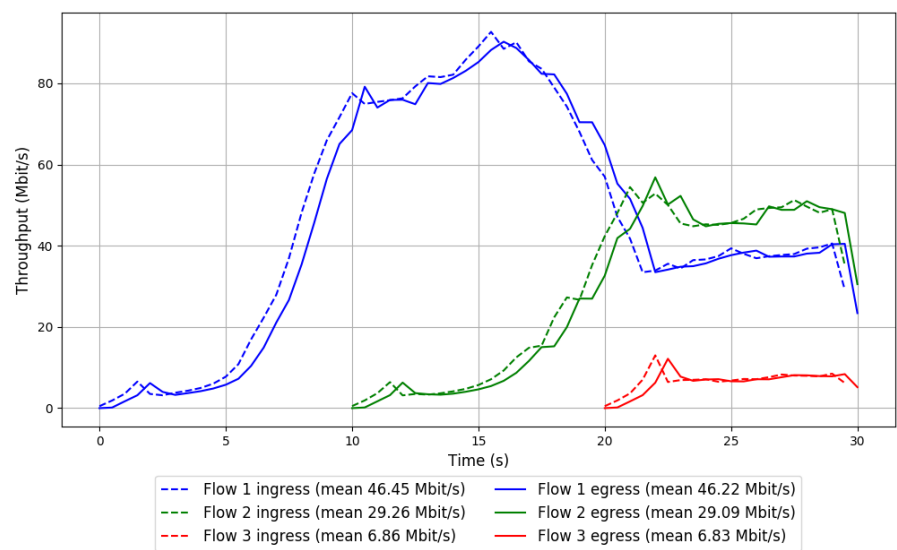


Run 3: Statistics of PCC-Vivace

Start at: 2019-07-12 17:29:19  
End at: 2019-07-12 17:29:49  
Local clock offset: -4.131 ms  
Remote clock offset: -5.488 ms

# Below is generated by plot.py at 2019-07-12 18:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.74 Mbit/s  
95th percentile per-packet one-way delay: 172.277 ms  
Loss rate: 1.22%  
-- Flow 1:  
Average throughput: 46.22 Mbit/s  
95th percentile per-packet one-way delay: 180.247 ms  
Loss rate: 1.07%  
-- Flow 2:  
Average throughput: 29.09 Mbit/s  
95th percentile per-packet one-way delay: 136.689 ms  
Loss rate: 1.45%  
-- Flow 3:  
Average throughput: 6.83 Mbit/s  
95th percentile per-packet one-way delay: 102.824 ms  
Loss rate: 2.11%

Run 3: Report of PCC-Vivace — Data Link

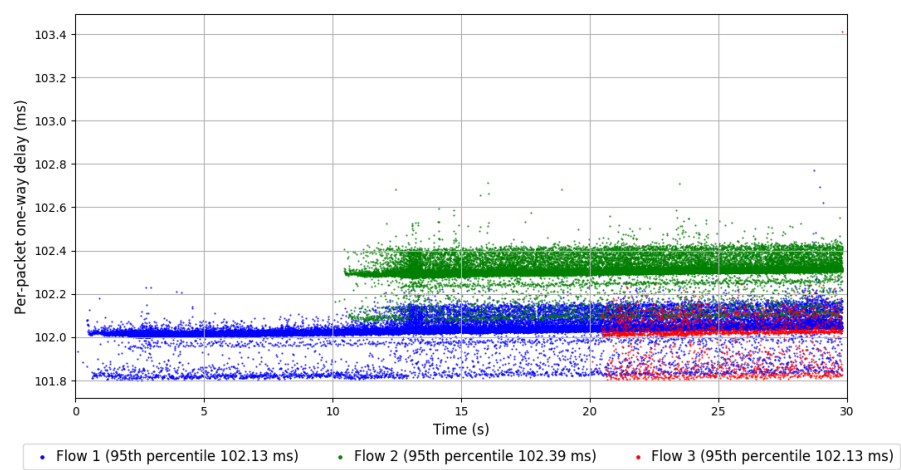
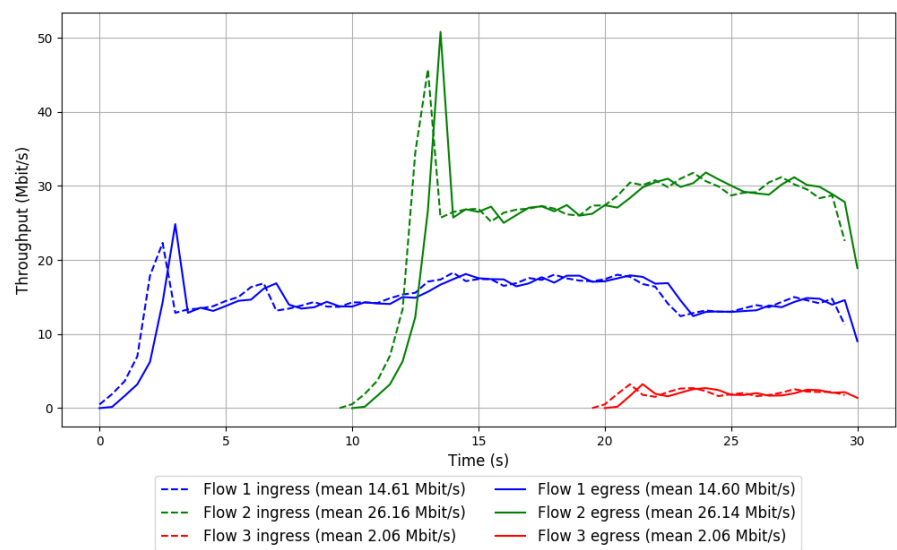


Run 4: Statistics of PCC-Vivace

Start at: 2019-07-12 18:00:29  
End at: 2019-07-12 18:00:59  
Local clock offset: -2.528 ms  
Remote clock offset: -4.102 ms

```
# Below is generated by plot.py at 2019-07-12 18:50:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.62 Mbit/s
95th percentile per-packet one-way delay: 102.355 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 14.60 Mbit/s
95th percentile per-packet one-way delay: 102.126 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 26.14 Mbit/s
95th percentile per-packet one-way delay: 102.386 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 2.06 Mbit/s
95th percentile per-packet one-way delay: 102.132 ms
Loss rate: 2.07%
```

Run 4: Report of PCC-Vivace — Data Link

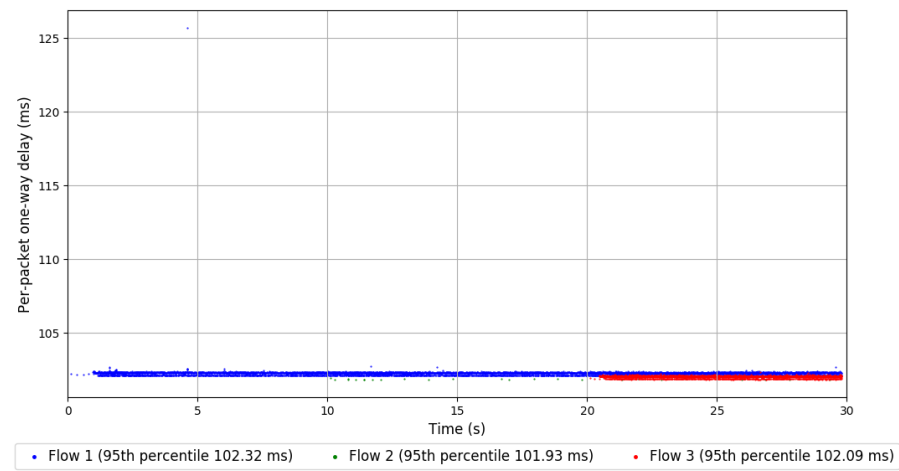
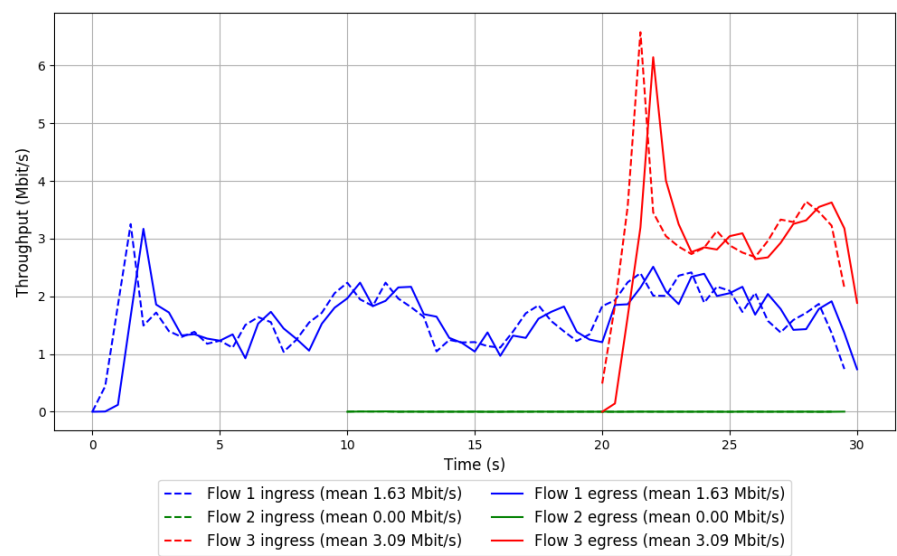


Run 5: Statistics of PCC-Vivace

Start at: 2019-07-12 18:33:22  
End at: 2019-07-12 18:33:52  
Local clock offset: -3.036 ms  
Remote clock offset: -2.748 ms

# Below is generated by plot.py at 2019-07-12 18:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.64 Mbit/s  
95th percentile per-packet one-way delay: 102.317 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 102.324 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 101.927 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 3.09 Mbit/s  
95th percentile per-packet one-way delay: 102.087 ms  
Loss rate: 1.49%

Run 5: Report of PCC-Vivace — Data Link

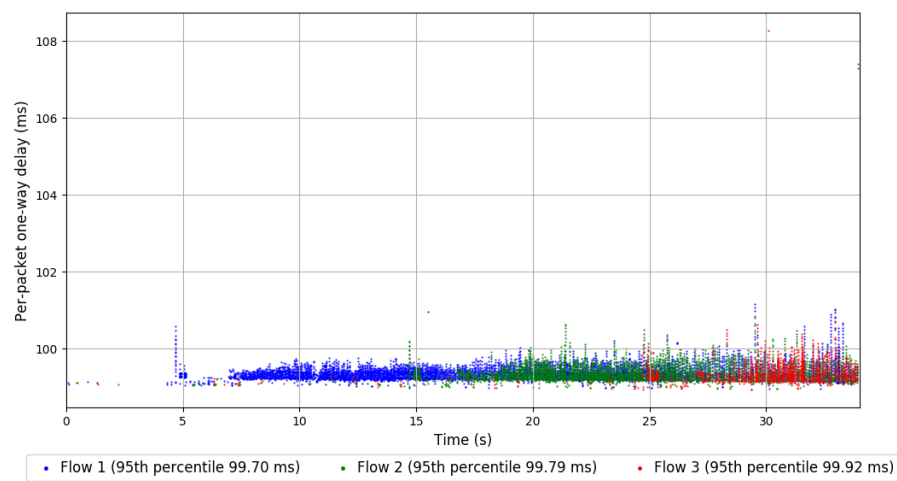
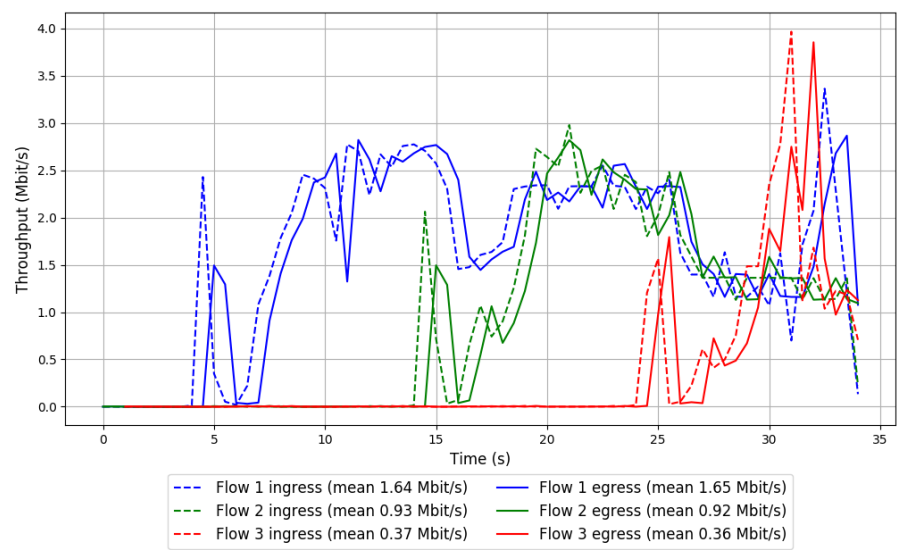


Run 1: Statistics of WebRTC media

Start at: 2019-07-12 16:13:42  
End at: 2019-07-12 16:14:12  
Local clock offset: -2.437 ms  
Remote clock offset: -12.113 ms

# Below is generated by plot.py at 2019-07-12 18:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.91 Mbit/s  
95th percentile per-packet one-way delay: 99.761 ms  
Loss rate: 1.14%  
-- Flow 1:  
Average throughput: 1.65 Mbit/s  
95th percentile per-packet one-way delay: 99.698 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 0.92 Mbit/s  
95th percentile per-packet one-way delay: 99.786 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 99.915 ms  
Loss rate: 4.11%

Run 1: Report of WebRTC media — Data Link



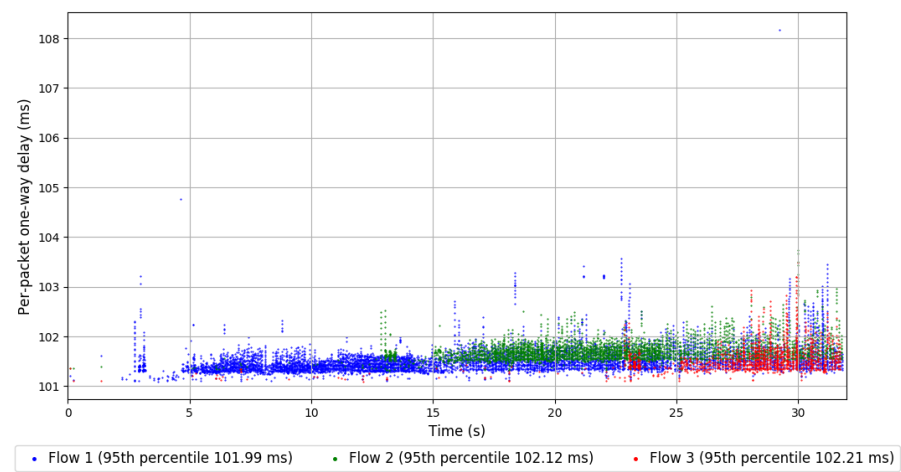
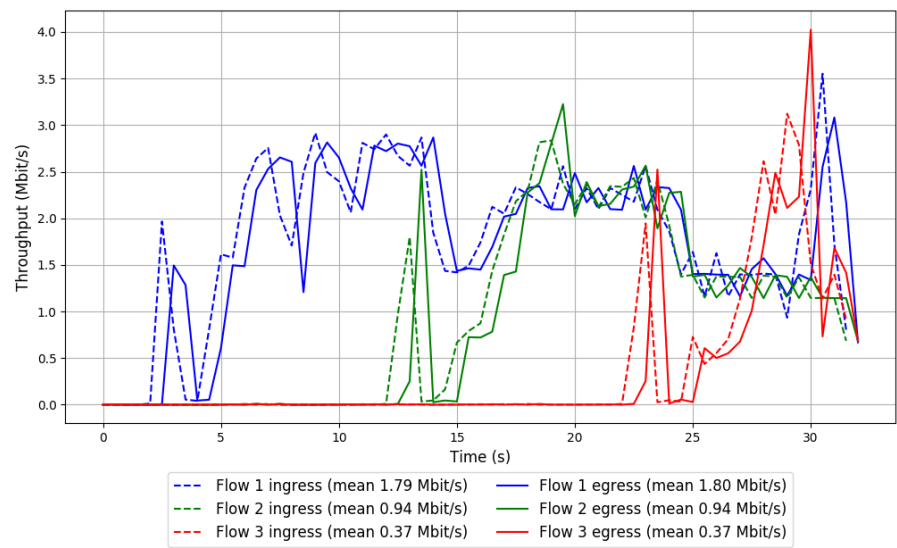


Run 2: Statistics of WebRTC media

Start at: 2019-07-12 16:45:20  
End at: 2019-07-12 16:45:50  
Local clock offset: 0.901 ms  
Remote clock offset: -9.031 ms

# Below is generated by plot.py at 2019-07-12 18:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.11 Mbit/s  
95th percentile per-packet one-way delay: 102.074 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 1.80 Mbit/s  
95th percentile per-packet one-way delay: 101.987 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 0.94 Mbit/s  
95th percentile per-packet one-way delay: 102.122 ms  
Loss rate: 0.38%  
-- Flow 3:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 102.208 ms  
Loss rate: 1.93%

Run 2: Report of WebRTC media — Data Link

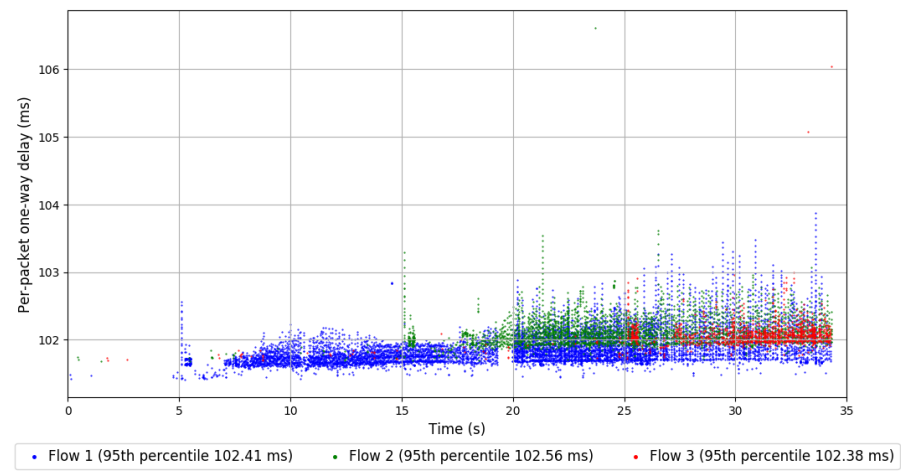
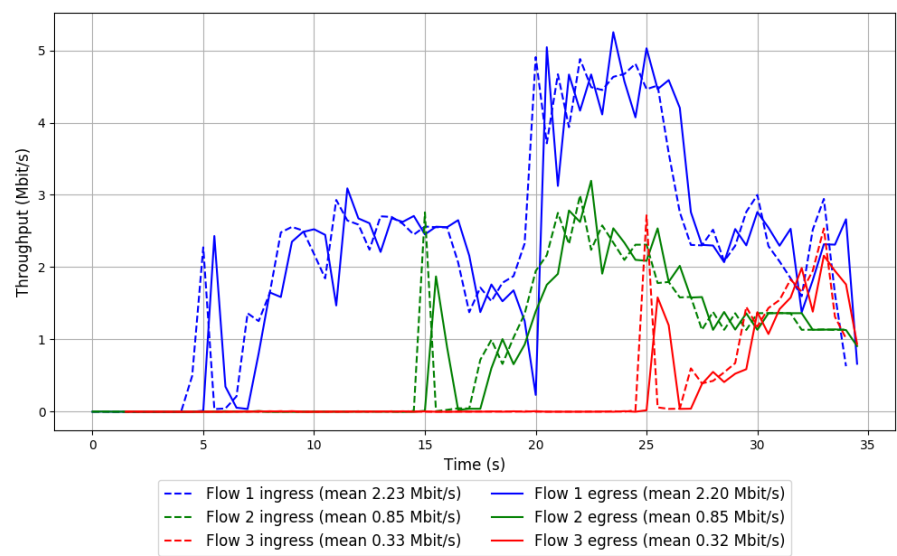


Run 3: Statistics of WebRTC media

Start at: 2019-07-12 17:16:33  
End at: 2019-07-12 17:17:03  
Local clock offset: -3.384 ms  
Remote clock offset: -6.412 ms

# Below is generated by plot.py at 2019-07-12 18:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.34 Mbit/s  
95th percentile per-packet one-way delay: 102.461 ms  
Loss rate: 1.62%  
-- Flow 1:  
Average throughput: 2.20 Mbit/s  
95th percentile per-packet one-way delay: 102.410 ms  
Loss rate: 1.86%  
-- Flow 2:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 102.558 ms  
Loss rate: 0.79%  
-- Flow 3:  
Average throughput: 0.32 Mbit/s  
95th percentile per-packet one-way delay: 102.384 ms  
Loss rate: 2.14%

Run 3: Report of WebRTC media — Data Link

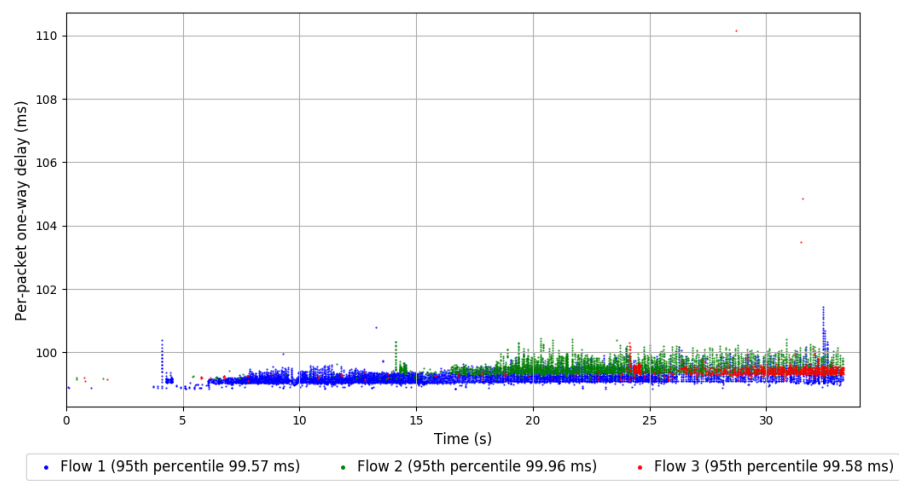
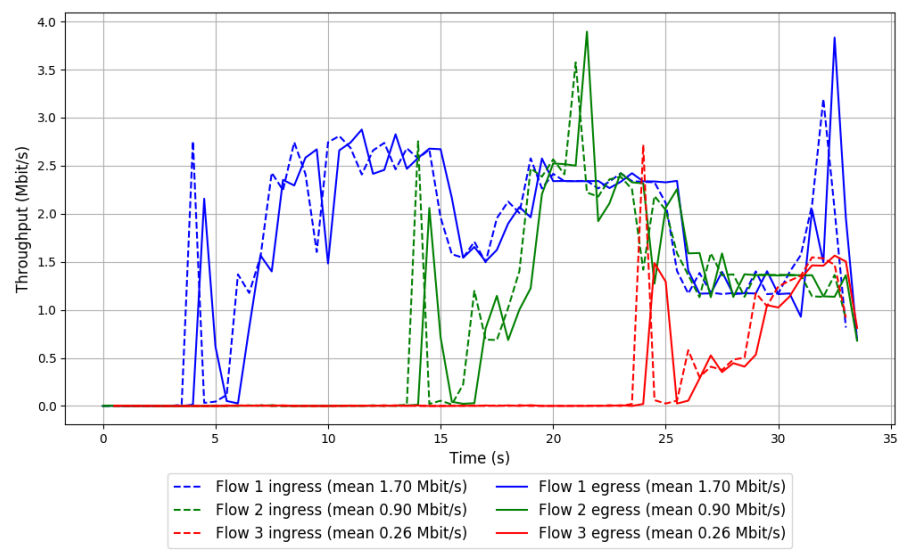


Run 4: Statistics of WebRTC media

Start at: 2019-07-12 17:47:37  
End at: 2019-07-12 17:48:07  
Local clock offset: -3.158 ms  
Remote clock offset: -2.539 ms

# Below is generated by plot.py at 2019-07-12 18:50:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.84 Mbit/s  
95th percentile per-packet one-way delay: 99.823 ms  
Loss rate: 0.63%  
-- Flow 1:  
Average throughput: 1.70 Mbit/s  
95th percentile per-packet one-way delay: 99.574 ms  
Loss rate: 0.36%  
-- Flow 2:  
Average throughput: 0.90 Mbit/s  
95th percentile per-packet one-way delay: 99.961 ms  
Loss rate: 0.77%  
-- Flow 3:  
Average throughput: 0.26 Mbit/s  
95th percentile per-packet one-way delay: 99.584 ms  
Loss rate: 2.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-07-12 18:19:41

End at: 2019-07-12 18:20:11

Local clock offset: -2.53 ms

Remote clock offset: -0.1 ms

# Below is generated by plot.py at 2019-07-12 18:50:23

# Datalink statistics

-- Total of 3 flows:

Average throughput: 2.88 Mbit/s

95th percentile per-packet one-way delay: 100.121 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 1.62 Mbit/s

95th percentile per-packet one-way delay: 99.918 ms

Loss rate: 0.64%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 100.254 ms

Loss rate: 0.74%

-- Flow 3:

Average throughput: 0.35 Mbit/s

95th percentile per-packet one-way delay: 99.829 ms

Loss rate: 2.00%

Run 5: Report of WebRTC media — Data Link

