

## Pantheon Report

Generated at 2019-01-03 13:41:27 (UTC).

Data path: Saudi Arabia on **enp2s0** (*remote*) → AWS India 2 on **ens5** (*local*).

Repeated the test of 19 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 **nets.org.sg** and have been applied to correct the timestamps in logs.

### System info:

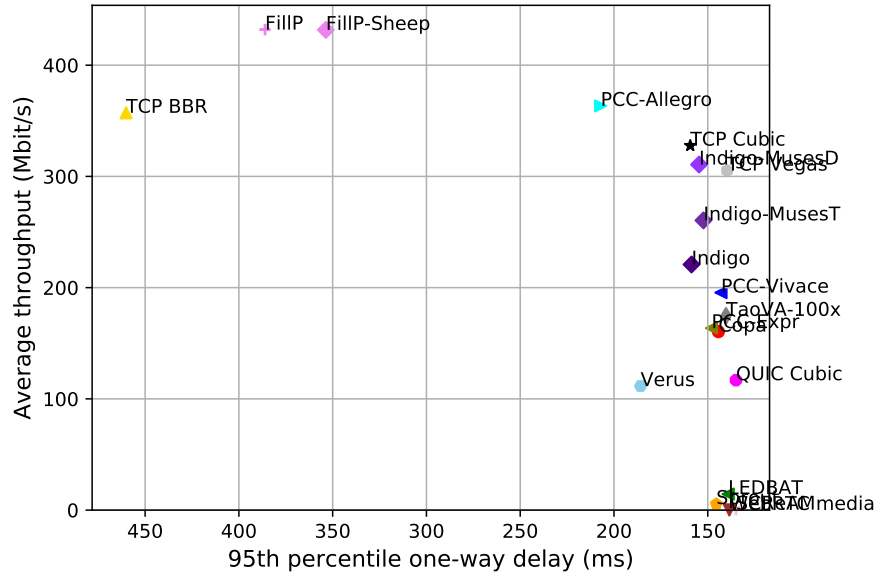
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

### Git summary:

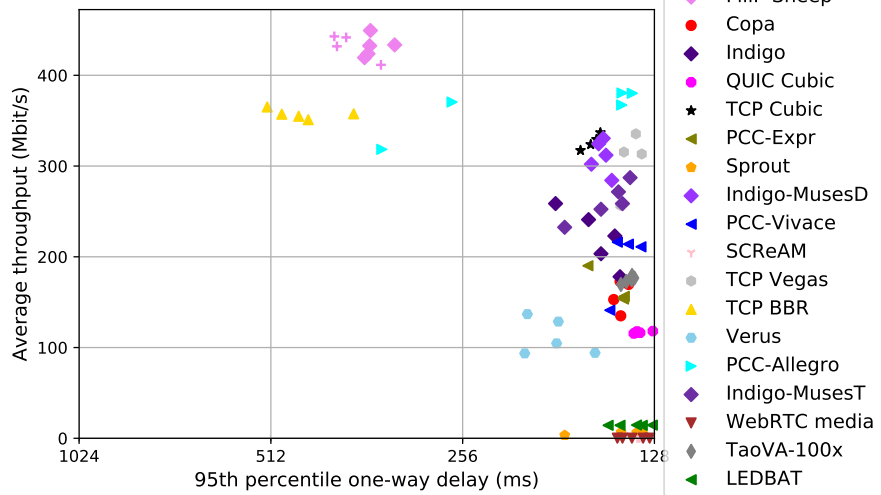
```
branch: muses @ c654af0b7d59d4ef4b914cfac404e1fc2e96dc68
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 65ac1b19bbefed0c6349ae986009b4fa8643c40a
third_party/muses-refactored @ 31f8f0ba8ef8b1da76c2bc0cd0a7850c33ff64fb
third_party/pantheon-tunnel @ f866d3f58d27afd942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
```

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

test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme  
3 flows with 10s interval between flows



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	267.79	109.00	75.77	475.60	387.80	415.50	3.06	3.75	8.47
Copa	5	105.04	61.72	44.22	146.33	142.62	143.38	0.30	0.92	3.68
TCP Cubic	5	191.38	143.30	126.52	148.50	180.24	197.52	0.40	0.85	2.59
FillP	4	270.62	186.58	133.09	406.01	349.65	276.41	3.25	9.19	16.21
FillP-Sheep	5	282.10	190.01	97.77	349.63	345.20	377.56	3.83	7.87	20.06
Indigo	5	111.52	120.64	90.74	154.86	159.97	170.16	0.67	0.99	2.42
Indigo-MusesD	5	213.76	119.12	62.21	155.06	149.70	163.83	0.39	1.08	3.67
Indigo-MusesT	5	202.79	70.60	43.25	153.20	144.56	145.98	0.70	0.72	2.74
LEDBAT	5	9.39	6.18	2.93	138.97	138.85	137.06	1.30	1.96	4.04
PCC-Allegro	5	316.86	63.73	13.21	212.44	141.62	141.27	0.76	1.09	1.94
PCC-Expr	4	142.23	28.46	7.77	150.84	140.60	141.73	1.21	1.73	3.99
QUIC Cubic	5	61.88	56.44	53.57	134.33	134.89	134.54	0.68	0.98	2.22
SCReAM	5	0.22	0.22	0.22	133.85	134.31	134.55	0.64	1.03	1.76
Sprout	5	3.15	2.54	1.98	145.79	138.30	137.86	0.63	1.14	2.54
TaoVA-100x	5	106.23	74.06	59.20	139.89	140.04	142.51	0.43	0.89	1.68
TCP Vegas	4	223.06	100.57	47.02	138.30	141.21	171.22	0.57	0.96	2.24
Verus	5	80.60	58.79	42.55	230.20	159.12	175.71	0.41	1.79	0.38
PCC-Vivace	4	139.64	70.97	27.13	146.45	142.16	142.60	0.77	1.19	3.35
WebRTC media	5	0.05	0.05	0.05	139.18	138.63	138.72	0.01	0.02	0.01

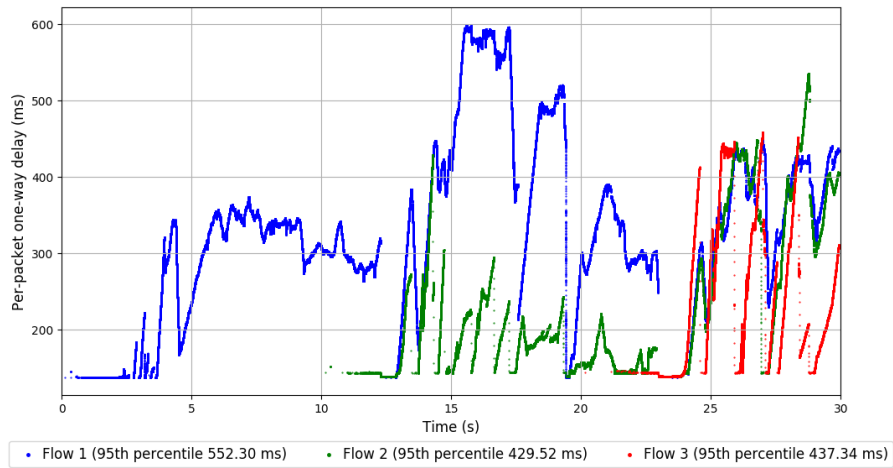
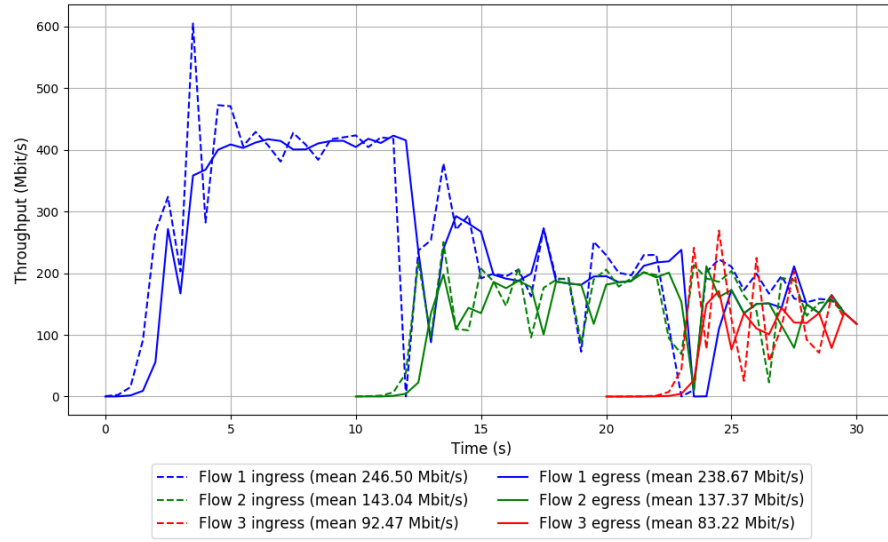


Run 1: Statistics of TCP BBR

Start at: 2019-01-03 09:40:30  
End at: 2019-01-03 09:41:00  
Local clock offset: 4.325 ms  
Remote clock offset: -40.797 ms

# Below is generated by plot.py at 2019-01-03 13:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 357.17 Mbit/s  
95th percentile per-packet one-way delay: 492.170 ms  
Loss rate: 4.76%  
-- Flow 1:  
Average throughput: 238.67 Mbit/s  
95th percentile per-packet one-way delay: 552.305 ms  
Loss rate: 3.81%  
-- Flow 2:  
Average throughput: 137.37 Mbit/s  
95th percentile per-packet one-way delay: 429.519 ms  
Loss rate: 4.94%  
-- Flow 3:  
Average throughput: 83.22 Mbit/s  
95th percentile per-packet one-way delay: 437.341 ms  
Loss rate: 11.84%

# Run 1: Report of TCP BBR — Data Link

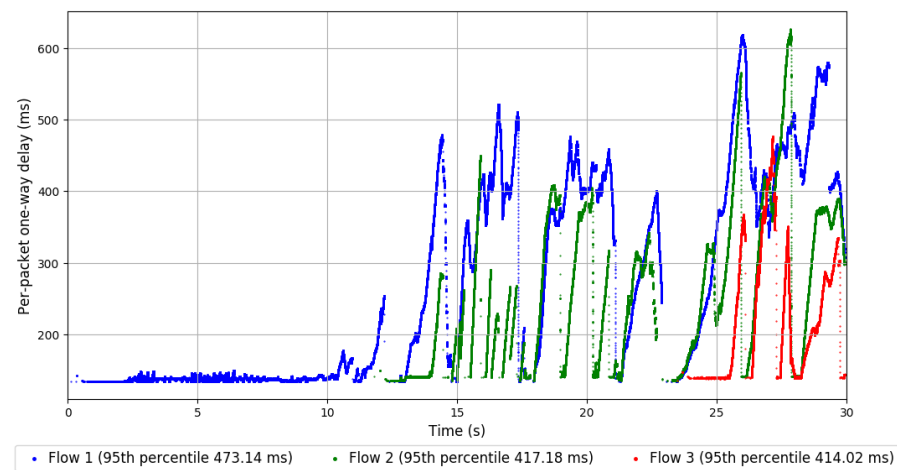
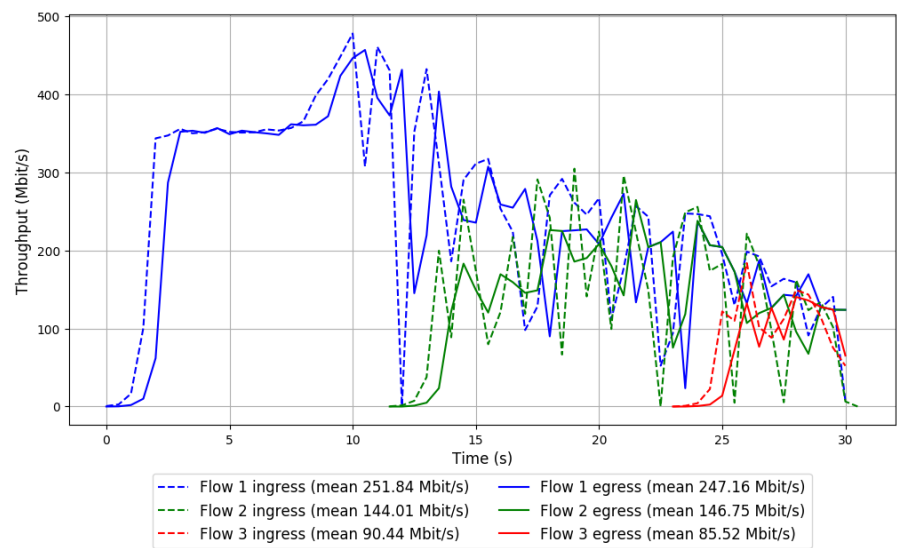


Run 2: Statistics of TCP BBR

Start at: 2019-01-03 10:24:05  
End at: 2019-01-03 10:24:35  
Local clock offset: 4.246 ms  
Remote clock offset: -38.201 ms

# Below is generated by plot.py at 2019-01-03 13:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 354.90 Mbit/s  
95th percentile per-packet one-way delay: 462.996 ms  
Loss rate: 3.19%  
-- Flow 1:  
Average throughput: 247.16 Mbit/s  
95th percentile per-packet one-way delay: 473.143 ms  
Loss rate: 2.63%  
-- Flow 2:  
Average throughput: 146.75 Mbit/s  
95th percentile per-packet one-way delay: 417.180 ms  
Loss rate: 2.26%  
-- Flow 3:  
Average throughput: 85.52 Mbit/s  
95th percentile per-packet one-way delay: 414.022 ms  
Loss rate: 13.75%

Run 2: Report of TCP BBR — Data Link

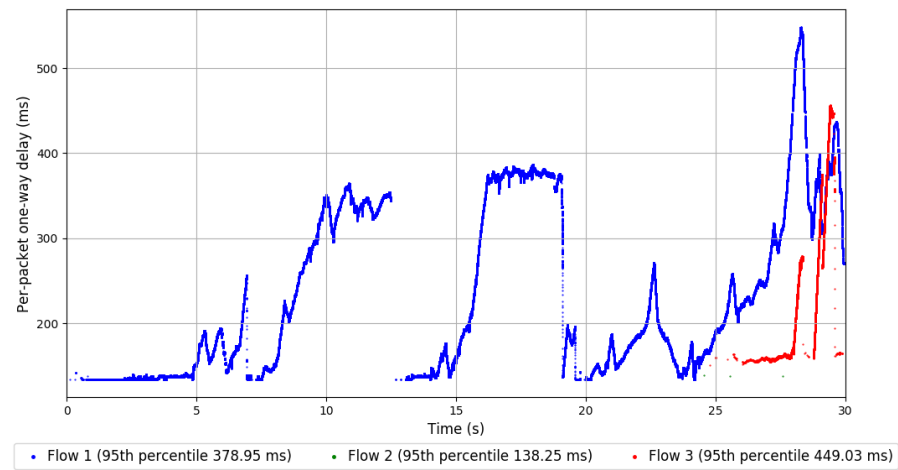
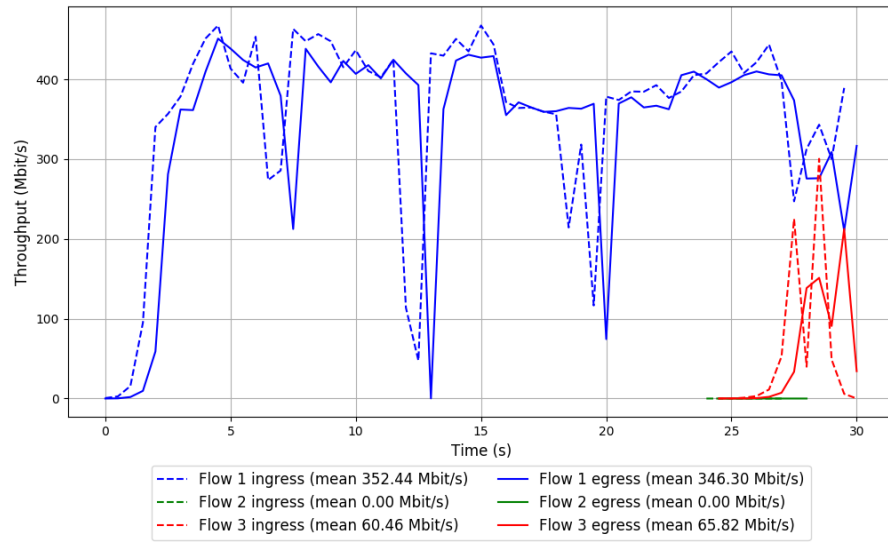


Run 3: Statistics of TCP BBR

Start at: 2019-01-03 11:03:48  
End at: 2019-01-03 11:04:18  
Local clock offset: 0.544 ms  
Remote clock offset: -38.576 ms

# Below is generated by plot.py at 2019-01-03 13:16:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 357.56 Mbit/s  
95th percentile per-packet one-way delay: 379.578 ms  
Loss rate: 2.43%  
-- Flow 1:  
Average throughput: 346.30 Mbit/s  
95th percentile per-packet one-way delay: 378.955 ms  
Loss rate: 2.43%  
-- Flow 2:  
Average throughput: 0.00 Mbit/s  
95th percentile per-packet one-way delay: 138.248 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 65.82 Mbit/s  
95th percentile per-packet one-way delay: 449.027 ms  
Loss rate: 2.57%

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

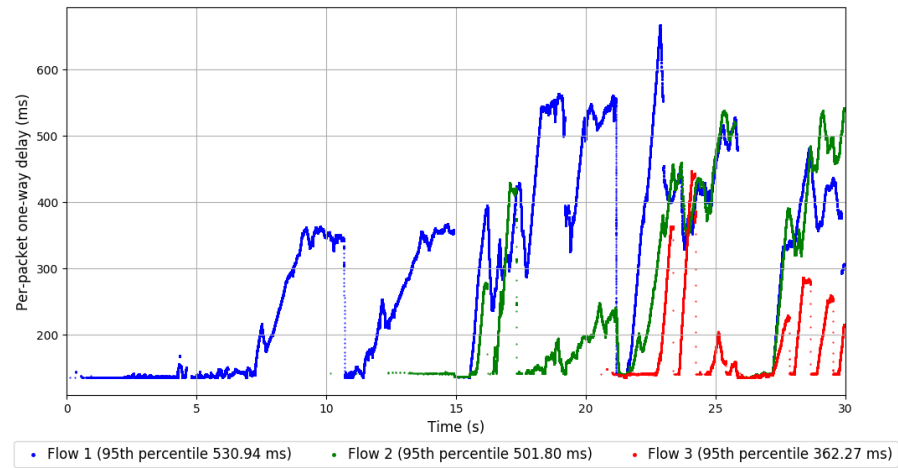
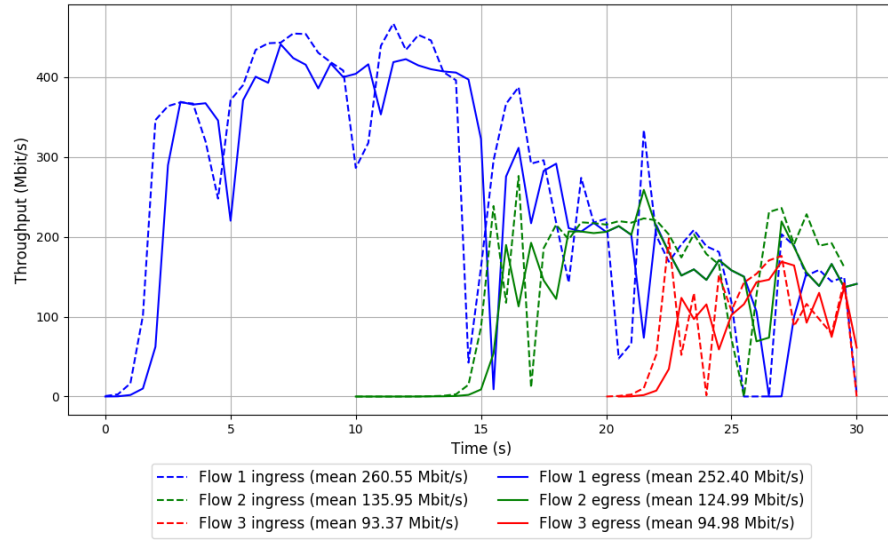


Run 4: Statistics of TCP BBR

Start at: 2019-01-03 11:57:15  
End at: 2019-01-03 11:57:45  
Local clock offset: 0.392 ms  
Remote clock offset: -41.997 ms

# Below is generated by plot.py at 2019-01-03 13:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 365.10 Mbit/s  
95th percentile per-packet one-way delay: 518.706 ms  
Loss rate: 5.19%  
-- Flow 1:  
Average throughput: 252.40 Mbit/s  
95th percentile per-packet one-way delay: 530.936 ms  
Loss rate: 3.85%  
-- Flow 2:  
Average throughput: 124.99 Mbit/s  
95th percentile per-packet one-way delay: 501.795 ms  
Loss rate: 8.99%  
-- Flow 3:  
Average throughput: 94.98 Mbit/s  
95th percentile per-packet one-way delay: 362.273 ms  
Loss rate: 5.35%

# Run 4: Report of TCP BBR — Data Link



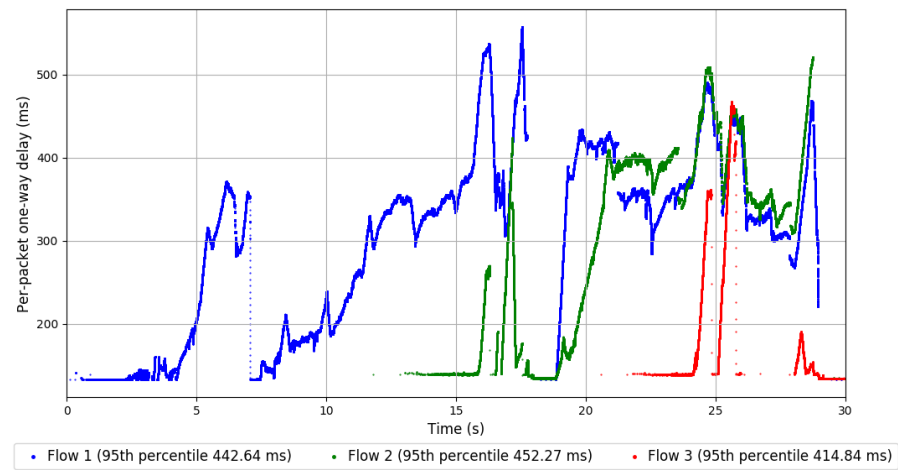
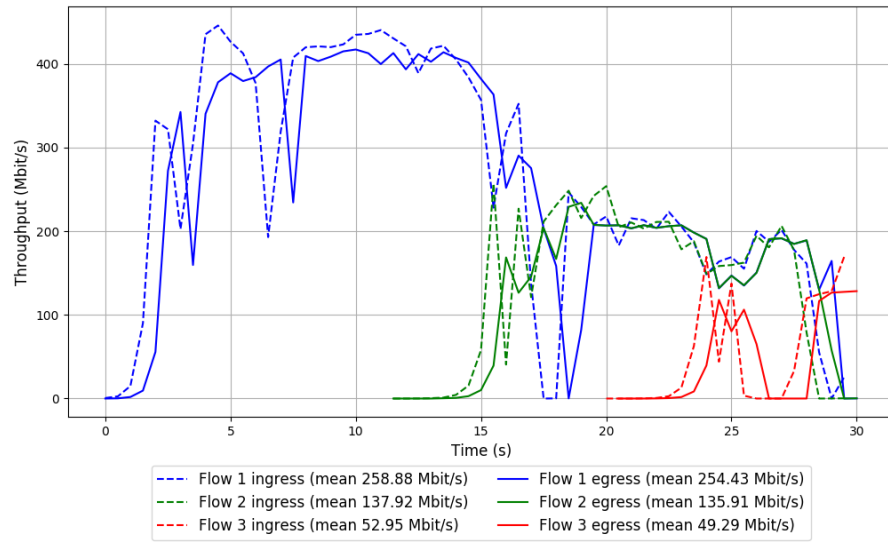


Run 5: Statistics of TCP BBR

Start at: 2019-01-03 12:42:02  
End at: 2019-01-03 12:42:32  
Local clock offset: -1.25 ms  
Remote clock offset: -41.143 ms

# Below is generated by plot.py at 2019-01-03 13:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 351.10 Mbit/s  
95th percentile per-packet one-way delay: 447.309 ms  
Loss rate: 2.87%  
-- Flow 1:  
Average throughput: 254.43 Mbit/s  
95th percentile per-packet one-way delay: 442.645 ms  
Loss rate: 2.58%  
-- Flow 2:  
Average throughput: 135.91 Mbit/s  
95th percentile per-packet one-way delay: 452.270 ms  
Loss rate: 2.56%  
-- Flow 3:  
Average throughput: 49.29 Mbit/s  
95th percentile per-packet one-way delay: 414.840 ms  
Loss rate: 8.85%

# Run 5: Report of TCP BBR — Data Link

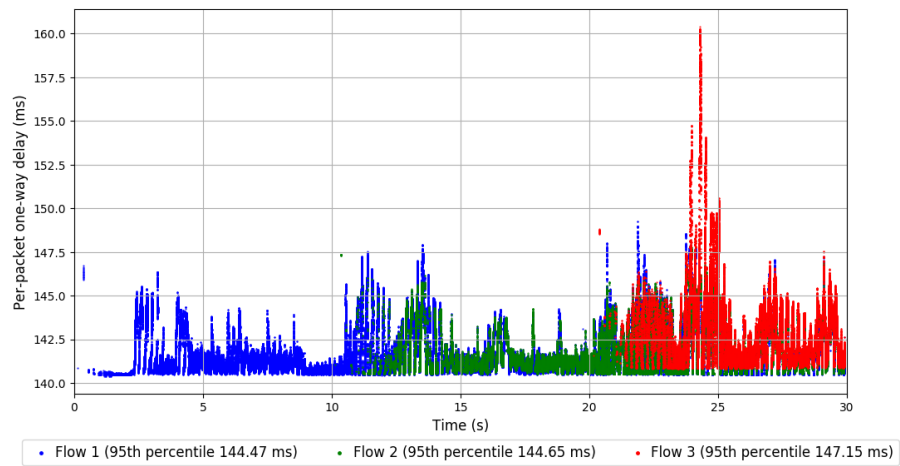
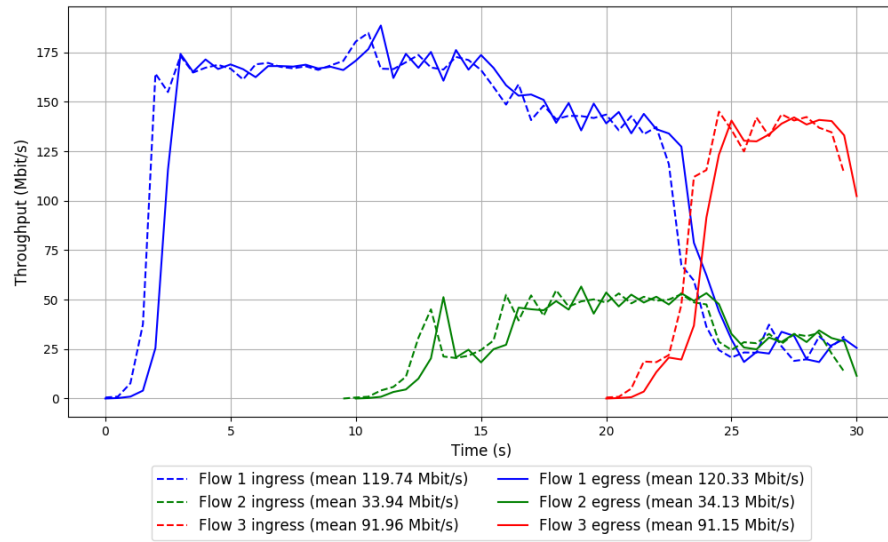


Run 1: Statistics of Copa

Start at: 2019-01-03 09:59:26  
End at: 2019-01-03 09:59:56  
Local clock offset: 0.379 ms  
Remote clock offset: -46.591 ms

# Below is generated by plot.py at 2019-01-03 13:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.86 Mbit/s  
95th percentile per-packet one-way delay: 144.893 ms  
Loss rate: 0.68%  
-- Flow 1:  
Average throughput: 120.33 Mbit/s  
95th percentile per-packet one-way delay: 144.467 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 144.649 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 91.15 Mbit/s  
95th percentile per-packet one-way delay: 147.145 ms  
Loss rate: 2.86%

## Run 1: Report of Copa — Data Link

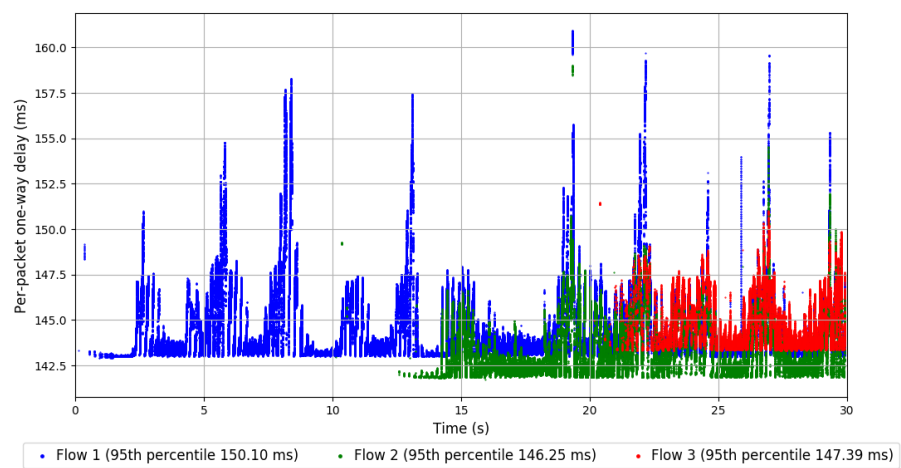
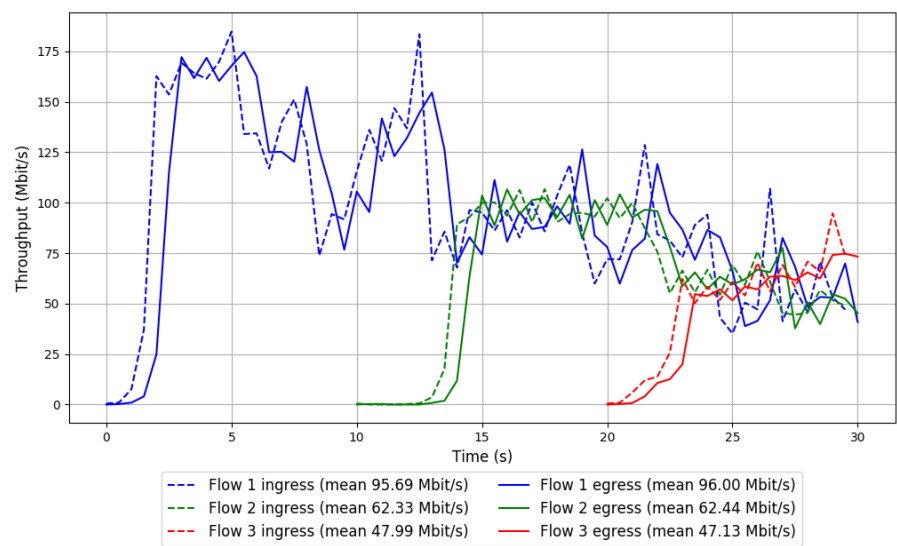


Run 2: Statistics of Copa

Start at: 2019-01-03 10:43:03  
End at: 2019-01-03 10:43:33  
Local clock offset: 0.014 ms  
Remote clock offset: -48.917 ms

# Below is generated by plot.py at 2019-01-03 13:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 152.91 Mbit/s  
95th percentile per-packet one-way delay: 148.281 ms  
Loss rate: 0.81%  
-- Flow 1:  
Average throughput: 96.00 Mbit/s  
95th percentile per-packet one-way delay: 150.096 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 62.44 Mbit/s  
95th percentile per-packet one-way delay: 146.248 ms  
Loss rate: 0.80%  
-- Flow 3:  
Average throughput: 47.13 Mbit/s  
95th percentile per-packet one-way delay: 147.386 ms  
Loss rate: 3.74%

Run 2: Report of Copa — Data Link

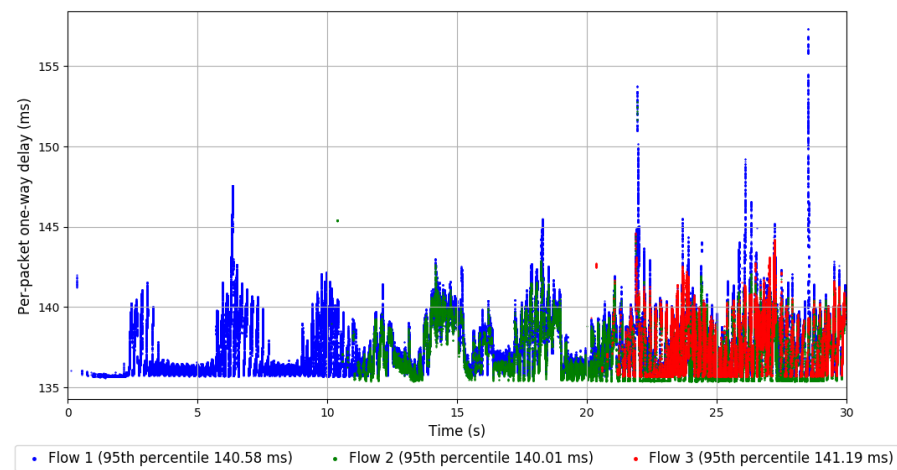
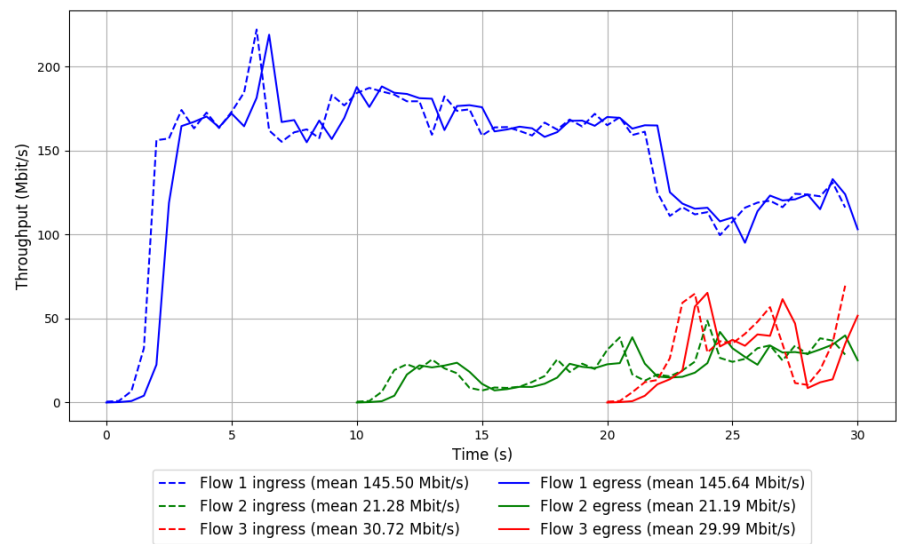


Run 3: Statistics of Copa

Start at: 2019-01-03 11:26:59  
End at: 2019-01-03 11:27:29  
Local clock offset: -0.183 ms  
Remote clock offset: -41.304 ms

# Below is generated by plot.py at 2019-01-03 13:16:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 169.53 Mbit/s  
95th percentile per-packet one-way delay: 140.555 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 145.64 Mbit/s  
95th percentile per-packet one-way delay: 140.578 ms  
Loss rate: 0.56%  
-- Flow 2:  
Average throughput: 21.19 Mbit/s  
95th percentile per-packet one-way delay: 140.012 ms  
Loss rate: 1.44%  
-- Flow 3:  
Average throughput: 29.99 Mbit/s  
95th percentile per-packet one-way delay: 141.191 ms  
Loss rate: 4.35%

Run 3: Report of Copa — Data Link



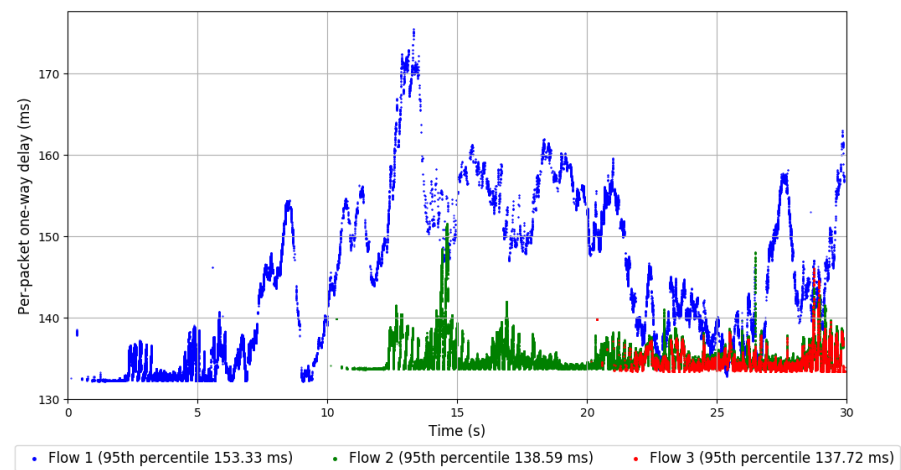
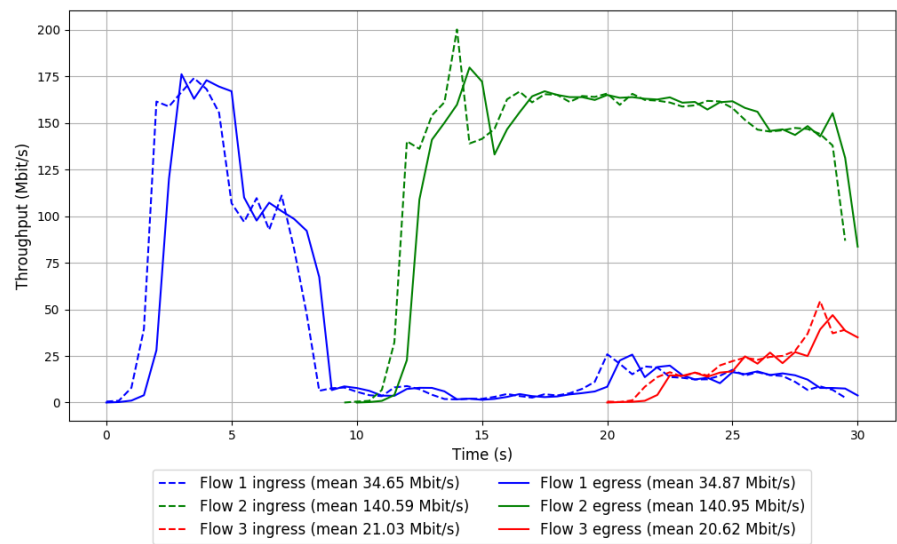


Run 4: Statistics of Copa

Start at: 2019-01-03 12:21:13  
End at: 2019-01-03 12:21:43  
Local clock offset: 0.241 ms  
Remote clock offset: -39.16 ms

```
# Below is generated by plot.py at 2019-01-03 13:17:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 134.96 Mbit/s
95th percentile per-packet one-way delay: 144.571 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 34.87 Mbit/s
95th percentile per-packet one-way delay: 153.332 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 140.95 Mbit/s
95th percentile per-packet one-way delay: 138.595 ms
Loss rate: 0.75%
-- Flow 3:
Average throughput: 20.62 Mbit/s
95th percentile per-packet one-way delay: 137.717 ms
Loss rate: 3.88%
```

Run 4: Report of Copa — Data Link

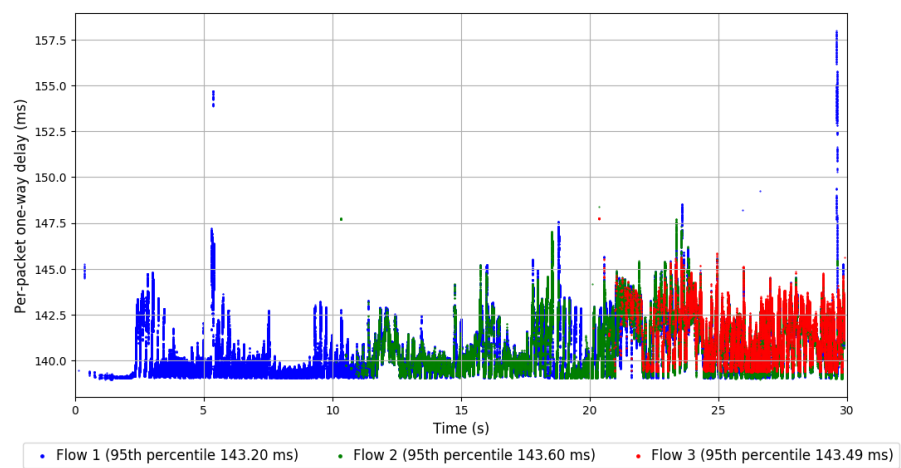
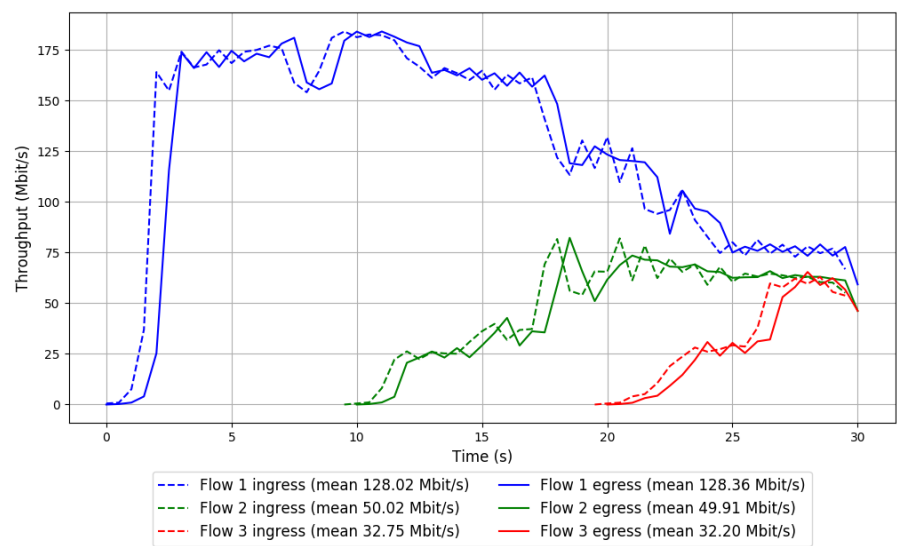


Run 5: Statistics of Copa

Start at: 2019-01-03 12:55:11  
End at: 2019-01-03 12:55:41  
Local clock offset: 0.945 ms  
Remote clock offset: -44.325 ms

# Below is generated by plot.py at 2019-01-03 13:19:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.06 Mbit/s  
95th percentile per-packet one-way delay: 143.317 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 128.36 Mbit/s  
95th percentile per-packet one-way delay: 143.197 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 49.91 Mbit/s  
95th percentile per-packet one-way delay: 143.605 ms  
Loss rate: 1.20%  
-- Flow 3:  
Average throughput: 32.20 Mbit/s  
95th percentile per-packet one-way delay: 143.485 ms  
Loss rate: 3.58%

Run 5: Report of Copa — Data Link

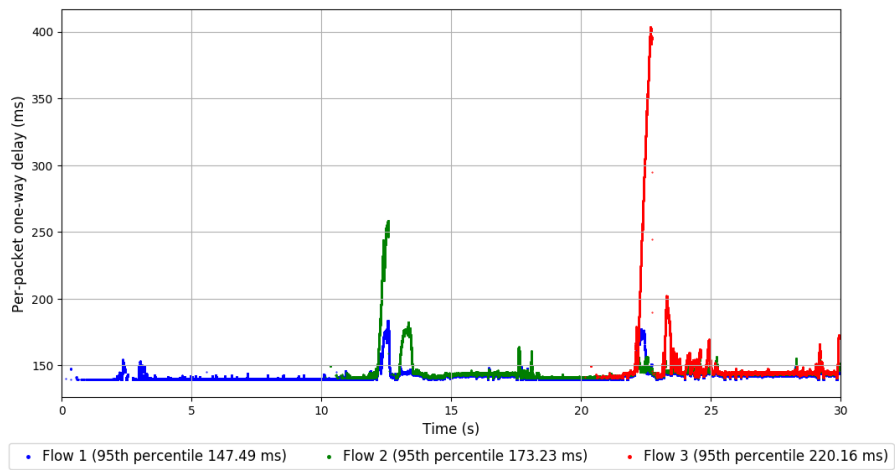
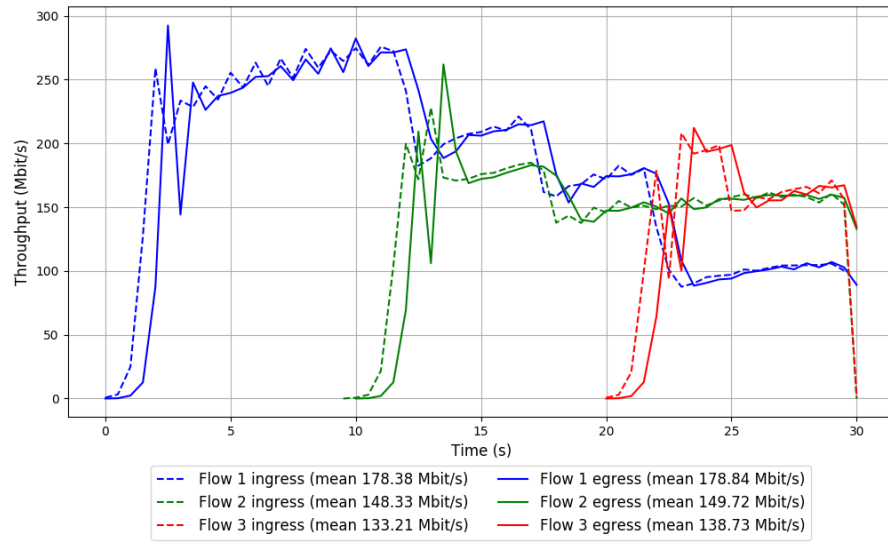


Run 1: Statistics of TCP Cubic

Start at: 2019-01-03 10:15:21  
End at: 2019-01-03 10:15:51  
Local clock offset: 3.001 ms  
Remote clock offset: -44.451 ms

# Below is generated by plot.py at 2019-01-03 13:19:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 323.76 Mbit/s  
95th percentile per-packet one-way delay: 161.138 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 178.84 Mbit/s  
95th percentile per-packet one-way delay: 147.490 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 149.72 Mbit/s  
95th percentile per-packet one-way delay: 173.227 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 138.73 Mbit/s  
95th percentile per-packet one-way delay: 220.158 ms  
Loss rate: 2.50%

# Run 1: Report of TCP Cubic — Data Link

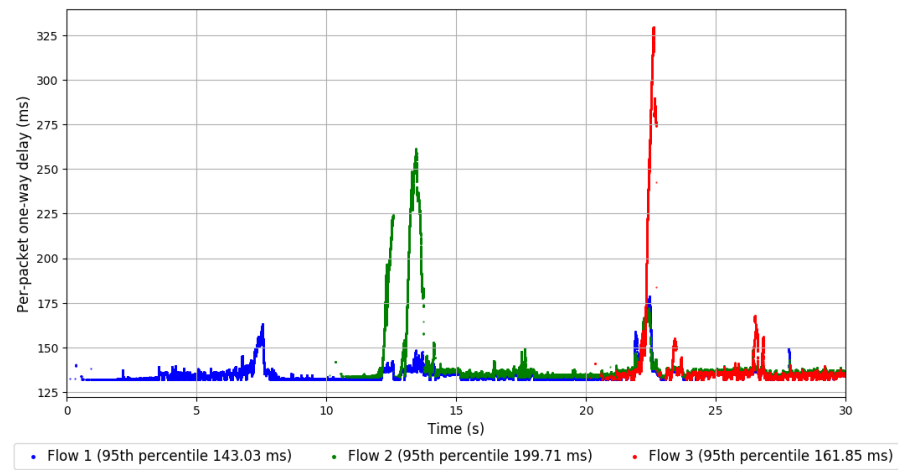
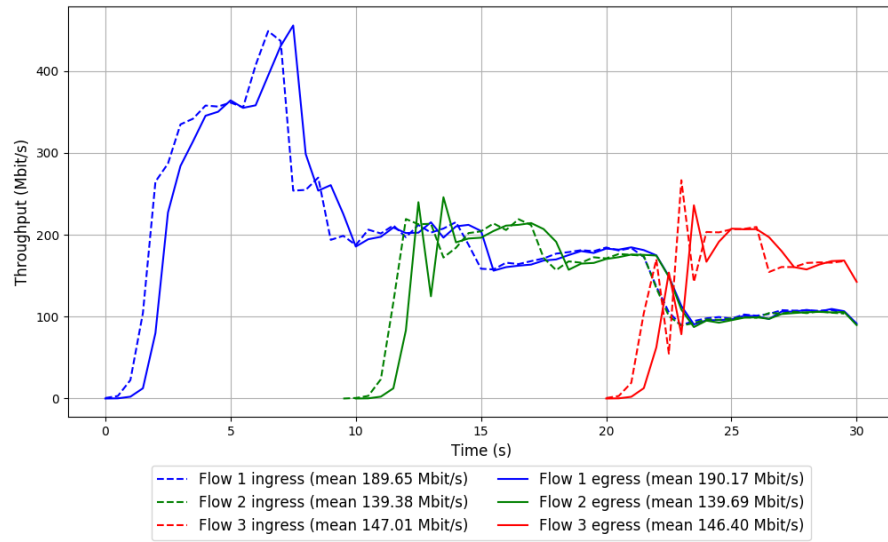


Run 2: Statistics of TCP Cubic

Start at: 2019-01-03 10:54:56  
End at: 2019-01-03 10:55:26  
Local clock offset: -1.421 ms  
Remote clock offset: -40.58 ms

# Below is generated by plot.py at 2019-01-03 13:19:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 331.00 Mbit/s  
95th percentile per-packet one-way delay: 154.919 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 190.17 Mbit/s  
95th percentile per-packet one-way delay: 143.028 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 139.69 Mbit/s  
95th percentile per-packet one-way delay: 199.706 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 146.40 Mbit/s  
95th percentile per-packet one-way delay: 161.852 ms  
Loss rate: 2.35%

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



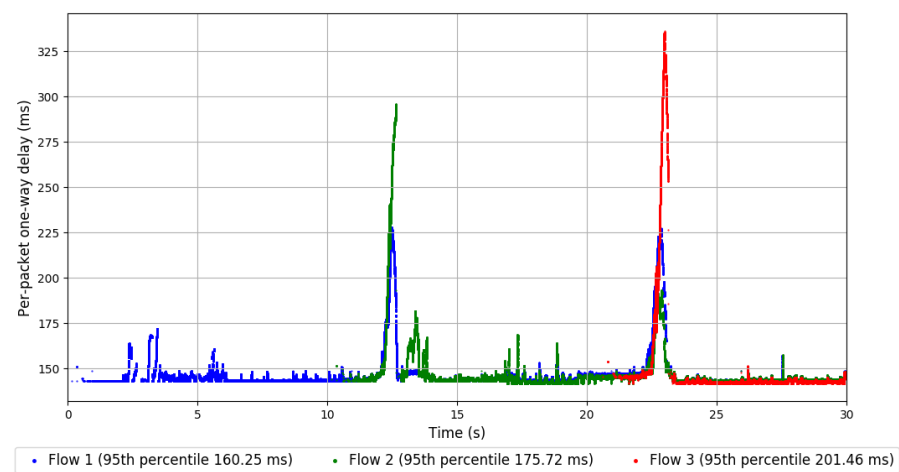
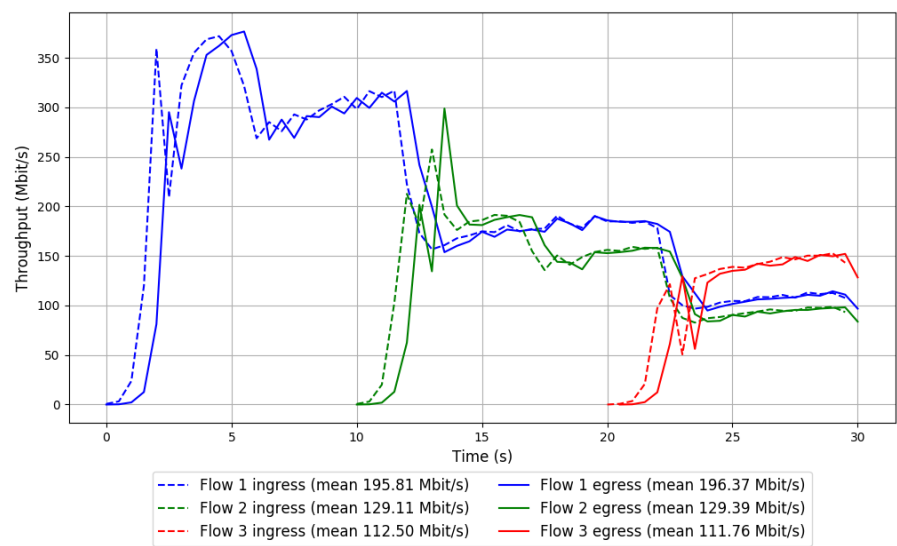


Run 3: Statistics of TCP Cubic

Start at: 2019-01-03 11:33:15  
End at: 2019-01-03 11:33:45  
Local clock offset: 2.246 ms  
Remote clock offset: -46.228 ms

# Below is generated by plot.py at 2019-01-03 13:19:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 317.29 Mbit/s  
95th percentile per-packet one-way delay: 167.192 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 196.37 Mbit/s  
95th percentile per-packet one-way delay: 160.255 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 129.39 Mbit/s  
95th percentile per-packet one-way delay: 175.720 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 111.76 Mbit/s  
95th percentile per-packet one-way delay: 201.457 ms  
Loss rate: 2.72%

Run 3: Report of TCP Cubic — Data Link

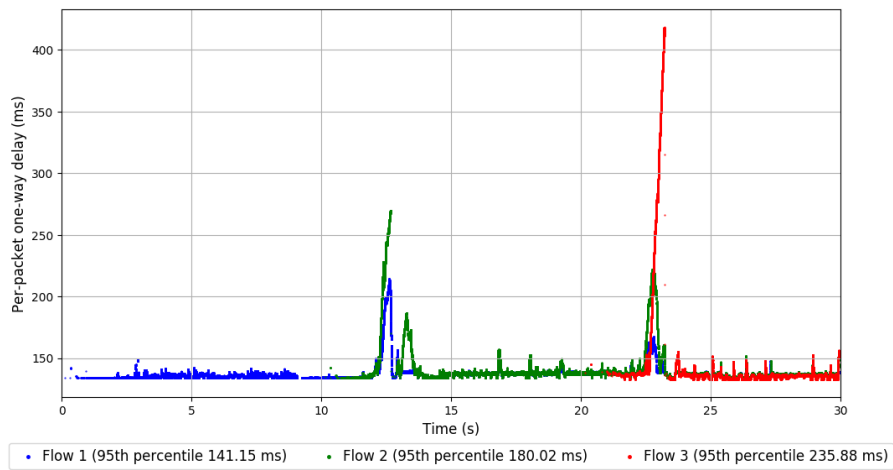
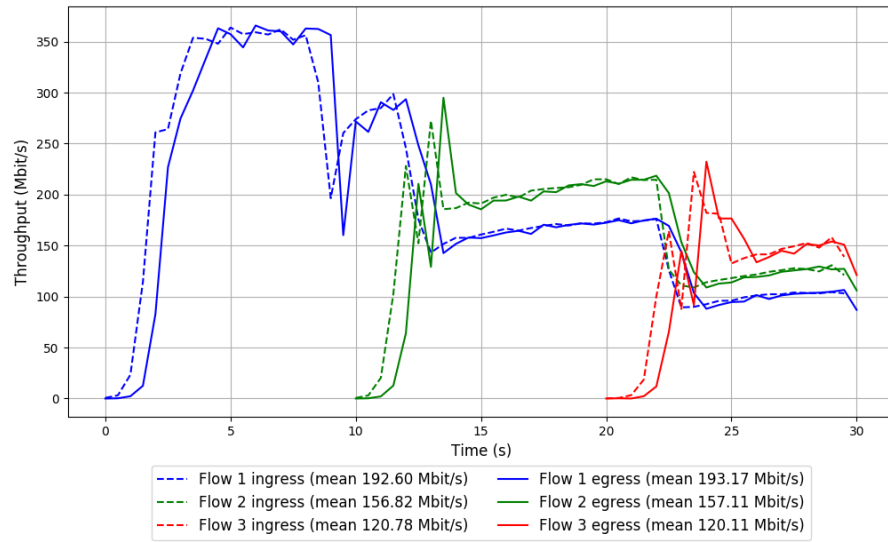


Run 4: Statistics of TCP Cubic

Start at: 2019-01-03 12:33:15  
End at: 2019-01-03 12:33:45  
Local clock offset: 0.061 ms  
Remote clock offset: -39.781 ms

# Below is generated by plot.py at 2019-01-03 13:19:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 336.87 Mbit/s  
95th percentile per-packet one-way delay: 155.598 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 193.17 Mbit/s  
95th percentile per-packet one-way delay: 141.150 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 157.11 Mbit/s  
95th percentile per-packet one-way delay: 180.024 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 120.11 Mbit/s  
95th percentile per-packet one-way delay: 235.876 ms  
Loss rate: 2.56%

# Run 4: Report of TCP Cubic — Data Link

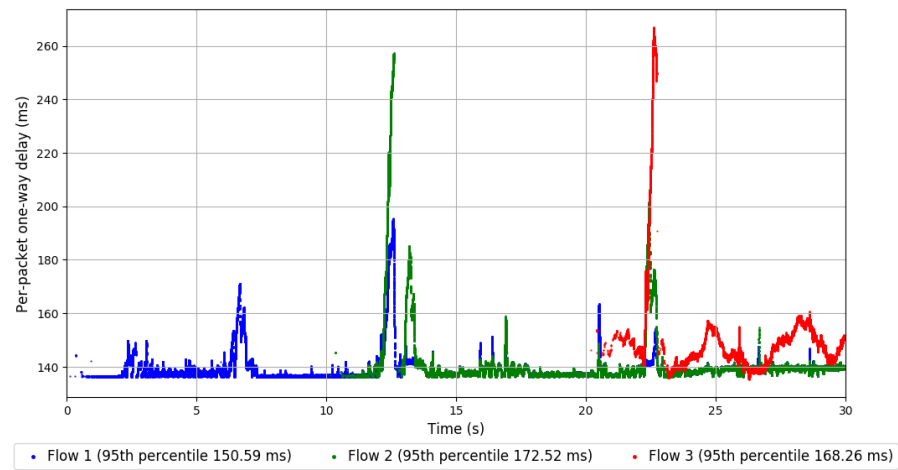
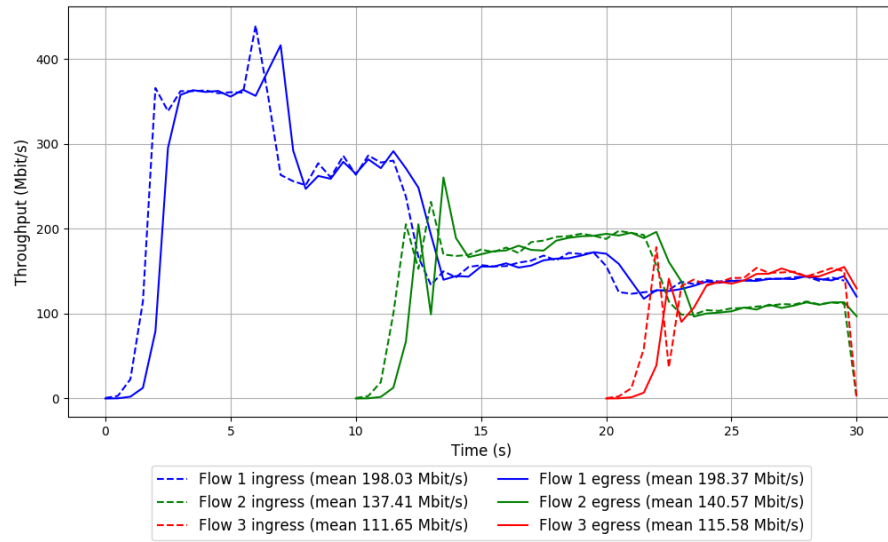


Run 5: Statistics of TCP Cubic

Start at: 2019-01-03 13:01:30  
End at: 2019-01-03 13:02:00  
Local clock offset: 0.551 ms  
Remote clock offset: -42.018 ms

# Below is generated by plot.py at 2019-01-03 13:19:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 329.44 Mbit/s  
95th percentile per-packet one-way delay: 157.825 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 198.37 Mbit/s  
95th percentile per-packet one-way delay: 150.592 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 140.57 Mbit/s  
95th percentile per-packet one-way delay: 172.517 ms  
Loss rate: 0.83%  
-- Flow 3:  
Average throughput: 115.58 Mbit/s  
95th percentile per-packet one-way delay: 168.259 ms  
Loss rate: 2.81%

# Run 5: Report of TCP Cubic — Data Link

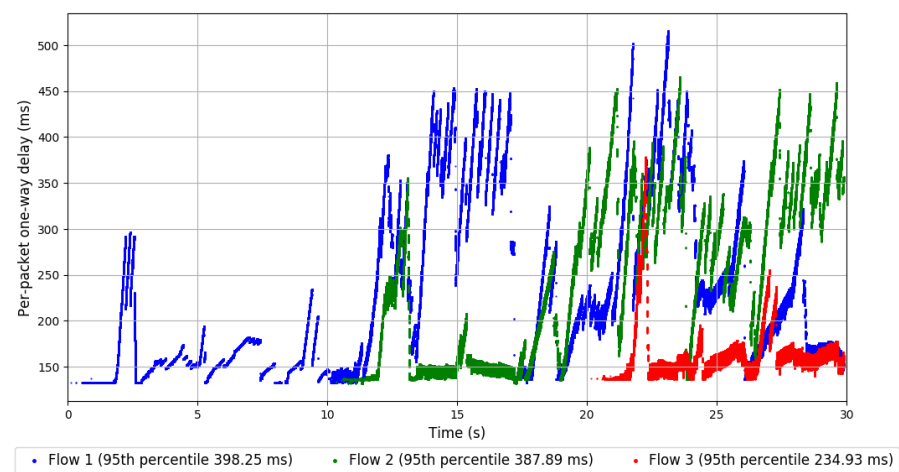
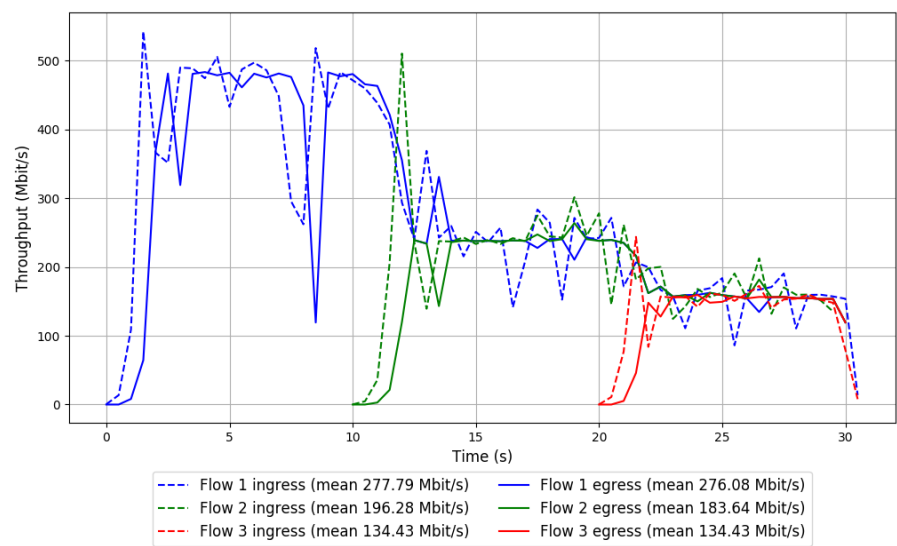


Run 1: Statistics of FillP

Start at: 2019-01-03 10:13:43  
End at: 2019-01-03 10:14:13  
Local clock offset: 2.912 ms  
Remote clock offset: -35.939 ms

# Below is generated by plot.py at 2019-01-03 13:21:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 441.75 Mbit/s  
95th percentile per-packet one-way delay: 389.975 ms  
Loss rate: 4.84%  
-- Flow 1:  
Average throughput: 276.08 Mbit/s  
95th percentile per-packet one-way delay: 398.246 ms  
Loss rate: 3.16%  
-- Flow 2:  
Average throughput: 183.64 Mbit/s  
95th percentile per-packet one-way delay: 387.887 ms  
Loss rate: 7.46%  
-- Flow 3:  
Average throughput: 134.43 Mbit/s  
95th percentile per-packet one-way delay: 234.927 ms  
Loss rate: 7.61%

Run 1: Report of FillP — Data Link



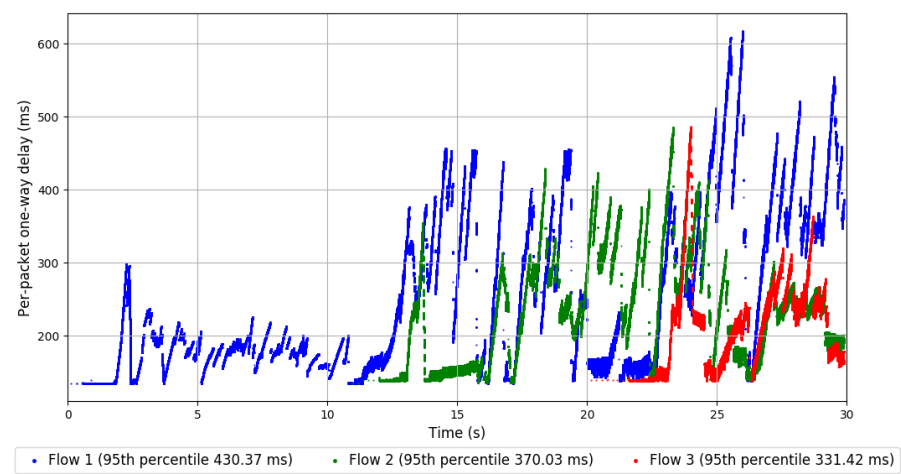
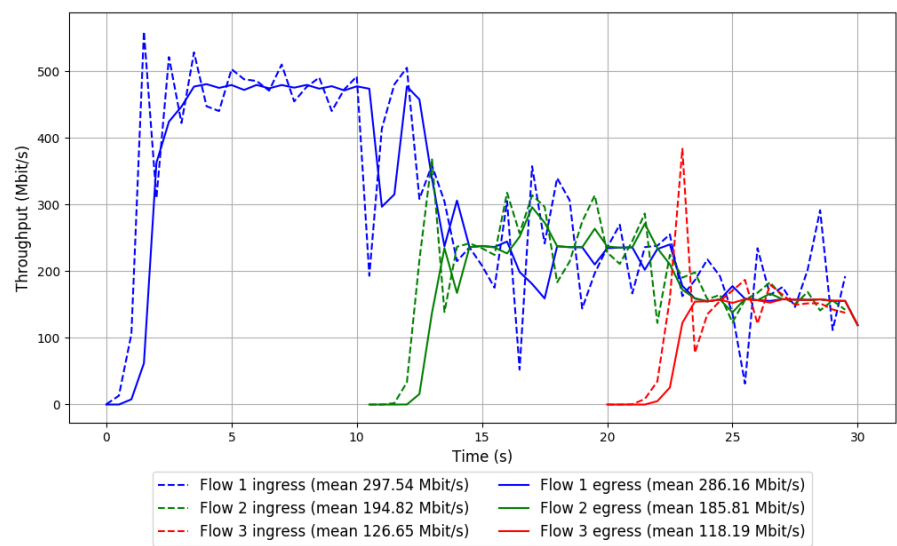


Run 2: Statistics of FillP

Start at: 2019-01-03 10:53:19  
End at: 2019-01-03 10:53:49  
Local clock offset: 0.473 ms  
Remote clock offset: -40.537 ms

# Below is generated by plot.py at 2019-01-03 13:23:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 442.88 Mbit/s  
95th percentile per-packet one-way delay: 407.067 ms  
Loss rate: 5.11%  
-- Flow 1:  
Average throughput: 286.16 Mbit/s  
95th percentile per-packet one-way delay: 430.373 ms  
Loss rate: 4.44%  
-- Flow 2:  
Average throughput: 185.81 Mbit/s  
95th percentile per-packet one-way delay: 370.034 ms  
Loss rate: 5.57%  
-- Flow 3:  
Average throughput: 118.19 Mbit/s  
95th percentile per-packet one-way delay: 331.422 ms  
Loss rate: 8.44%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-03 11:31:40

End at: 2019-01-03 11:32:10

Local clock offset: -1.017 ms

Remote clock offset: -38.854 ms

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

Figure is missing

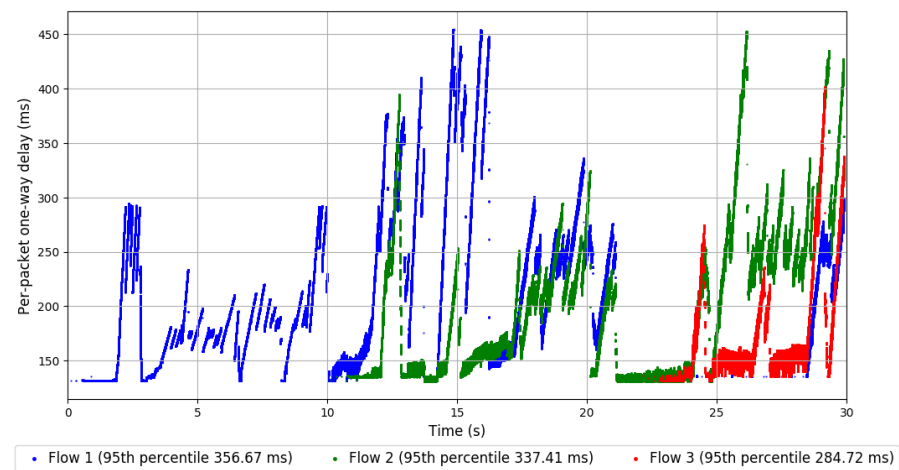
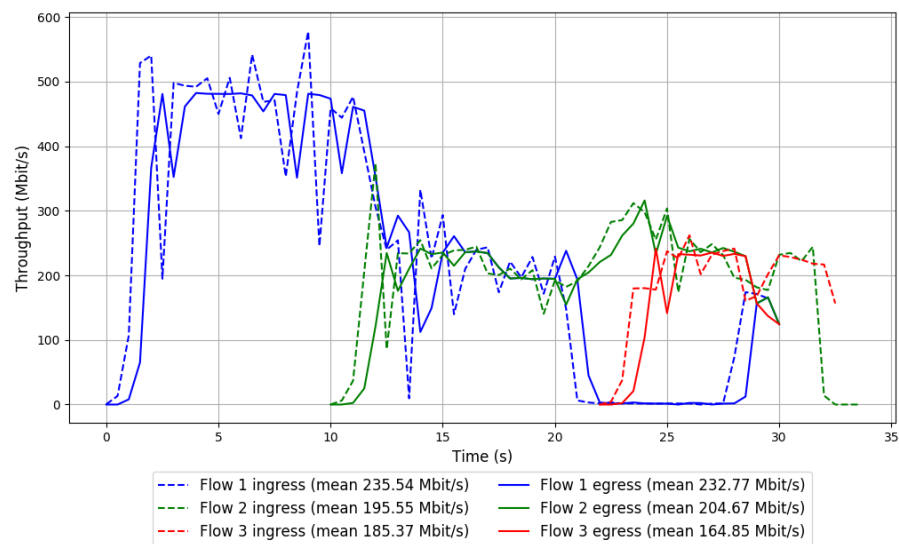
Figure is missing

Run 4: Statistics of FillP

Start at: 2019-01-03 12:31:31  
End at: 2019-01-03 12:32:01  
Local clock offset: -0.673 ms  
Remote clock offset: -37.738 ms

# Below is generated by plot.py at 2019-01-03 13:24:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 411.50 Mbit/s  
95th percentile per-packet one-way delay: 343.937 ms  
Loss rate: 10.93%  
-- Flow 1:  
Average throughput: 232.77 Mbit/s  
95th percentile per-packet one-way delay: 356.674 ms  
Loss rate: 1.92%  
-- Flow 2:  
Average throughput: 204.67 Mbit/s  
95th percentile per-packet one-way delay: 337.407 ms  
Loss rate: 13.52%  
-- Flow 3:  
Average throughput: 164.85 Mbit/s  
95th percentile per-packet one-way delay: 284.716 ms  
Loss rate: 36.59%

Run 4: Report of FillP — Data Link

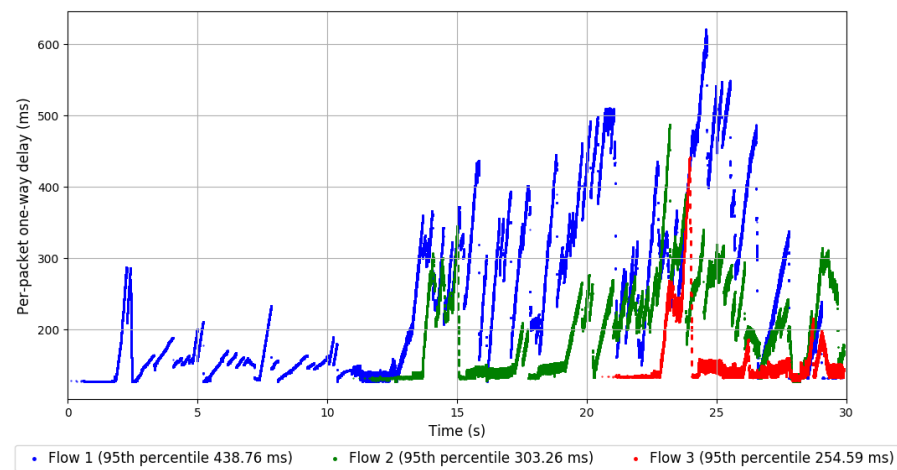
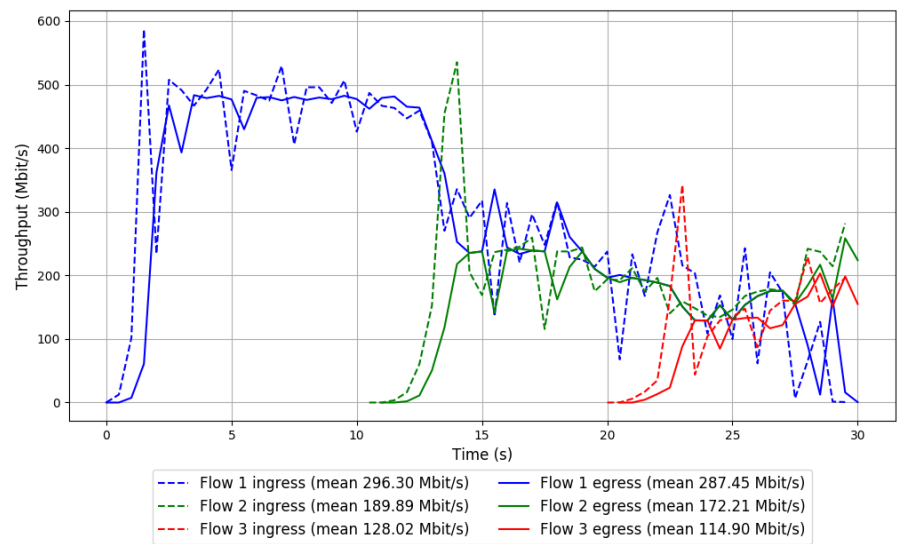


Run 5: Statistics of FillP

Start at: 2019-01-03 12:59:54  
End at: 2019-01-03 13:00:24  
Local clock offset: 1.261 ms  
Remote clock offset: -33.689 ms

# Below is generated by plot.py at 2019-01-03 13:24:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 431.90 Mbit/s  
95th percentile per-packet one-way delay: 403.209 ms  
Loss rate: 6.02%  
-- Flow 1:  
Average throughput: 287.45 Mbit/s  
95th percentile per-packet one-way delay: 438.763 ms  
Loss rate: 3.46%  
-- Flow 2:  
Average throughput: 172.21 Mbit/s  
95th percentile per-packet one-way delay: 303.259 ms  
Loss rate: 10.19%  
-- Flow 3:  
Average throughput: 114.90 Mbit/s  
95th percentile per-packet one-way delay: 254.588 ms  
Loss rate: 12.22%

Run 5: Report of FillP — Data Link



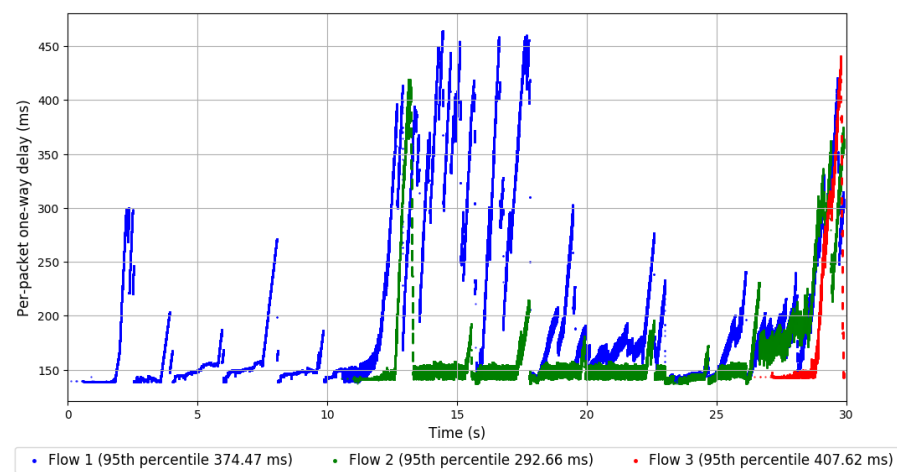
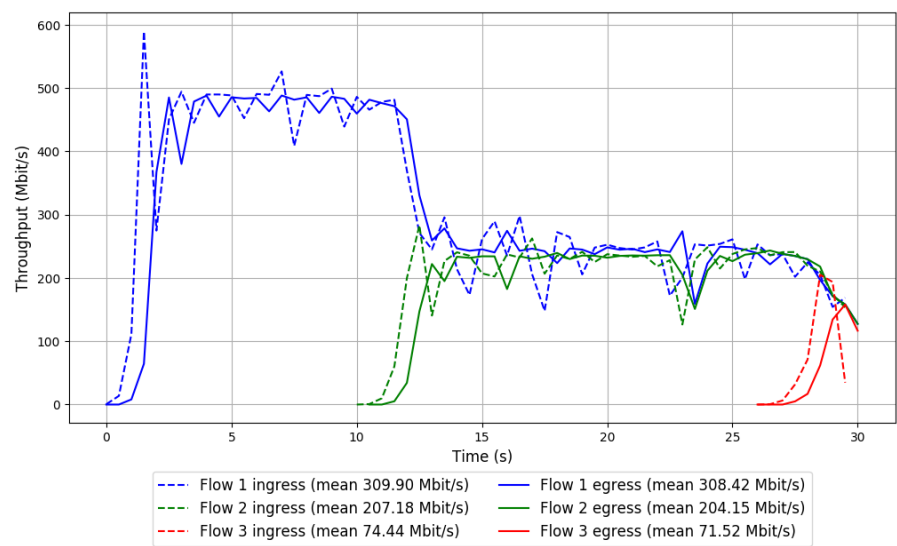


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-03 09:38:47  
End at: 2019-01-03 09:39:17  
Local clock offset: 3.366 ms  
Remote clock offset: -42.009 ms

# Below is generated by plot.py at 2019-01-03 13:24:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 449.34 Mbit/s  
95th percentile per-packet one-way delay: 357.240 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 308.42 Mbit/s  
95th percentile per-packet one-way delay: 374.471 ms  
Loss rate: 1.13%  
-- Flow 2:  
Average throughput: 204.15 Mbit/s  
95th percentile per-packet one-way delay: 292.664 ms  
Loss rate: 2.42%  
-- Flow 3:  
Average throughput: 71.52 Mbit/s  
95th percentile per-packet one-way delay: 407.625 ms  
Loss rate: 9.31%

Run 1: Report of FillP-Sheep — Data Link



Run 2: Statistics of FillP-Sheep

Start at: 2019-01-03 10:22:29

End at: 2019-01-03 10:22:59

Local clock offset: -0.266 ms

Remote clock offset: -40.209 ms

# Below is generated by plot.py at 2019-01-03 13:24:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 419.46 Mbit/s

95th percentile per-packet one-way delay: 364.959 ms

Loss rate: 7.73%

-- Flow 1:

Average throughput: 262.37 Mbit/s

95th percentile per-packet one-way delay: 342.470 ms

Loss rate: 4.78%

-- Flow 2:

Average throughput: 183.93 Mbit/s

95th percentile per-packet one-way delay: 348.104 ms

Loss rate: 9.34%

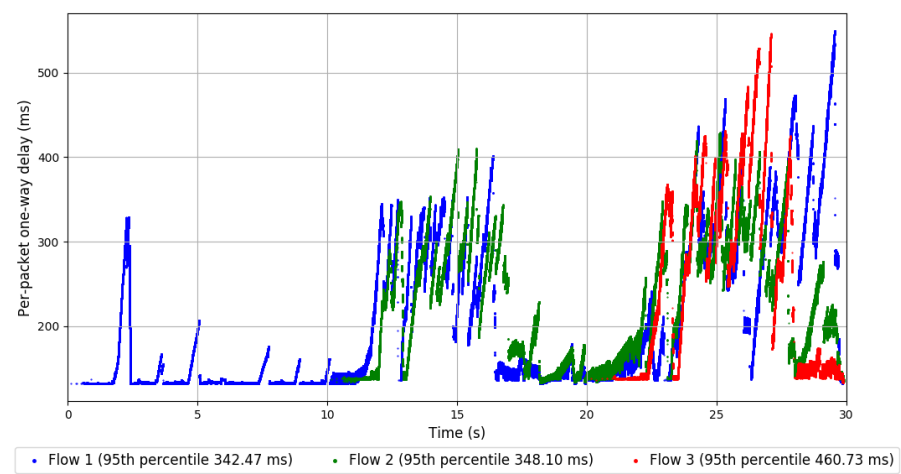
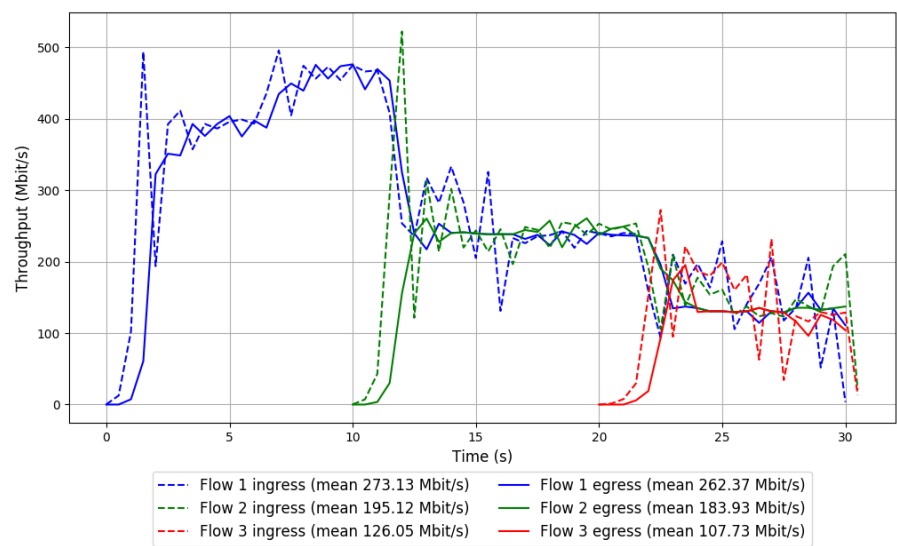
-- Flow 3:

Average throughput: 107.73 Mbit/s

95th percentile per-packet one-way delay: 460.729 ms

Loss rate: 21.13%

Run 2: Report of FillP-Sheep — Data Link

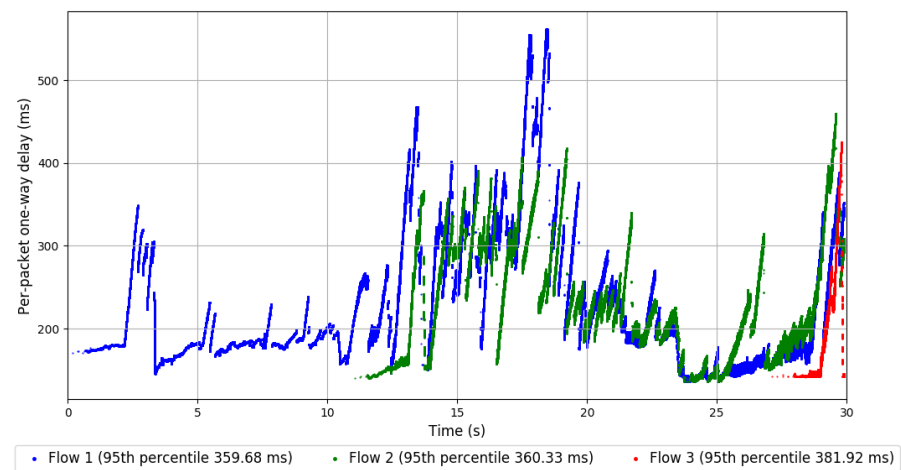
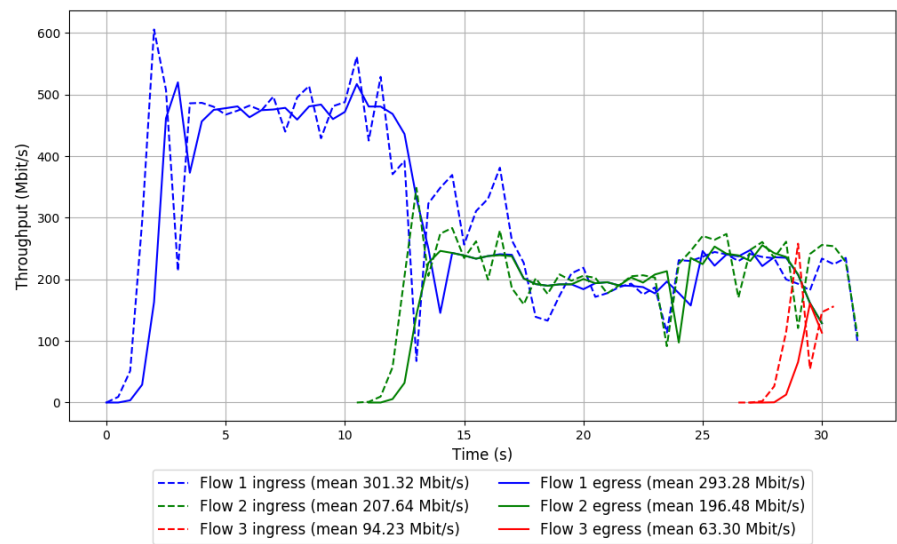


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-03 11:02:08  
End at: 2019-01-03 11:02:38  
Local clock offset: 1.163 ms  
Remote clock offset: -42.935 ms

# Below is generated by plot.py at 2019-01-03 13:24:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 423.73 Mbit/s  
95th percentile per-packet one-way delay: 360.378 ms  
Loss rate: 11.60%  
-- Flow 1:  
Average throughput: 293.28 Mbit/s  
95th percentile per-packet one-way delay: 359.677 ms  
Loss rate: 8.73%  
-- Flow 2:  
Average throughput: 196.48 Mbit/s  
95th percentile per-packet one-way delay: 360.328 ms  
Loss rate: 14.26%  
-- Flow 3:  
Average throughput: 63.30 Mbit/s  
95th percentile per-packet one-way delay: 381.923 ms  
Loss rate: 53.47%

Run 3: Report of FillP-Sheep — Data Link

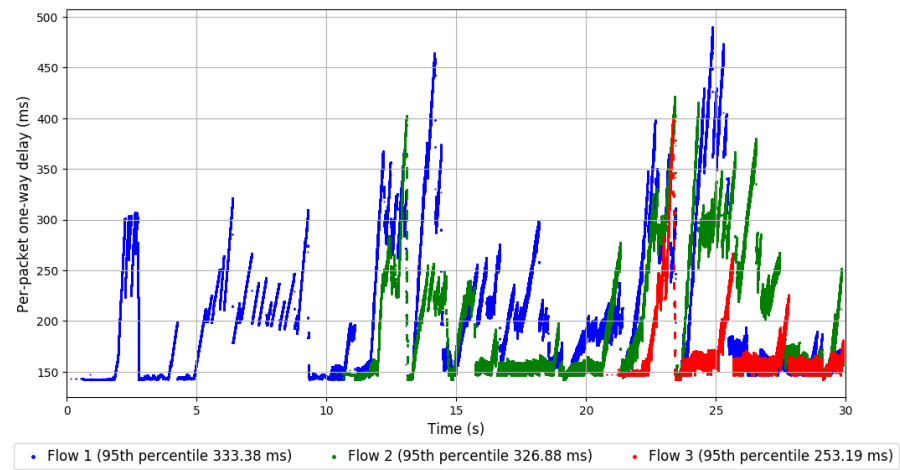
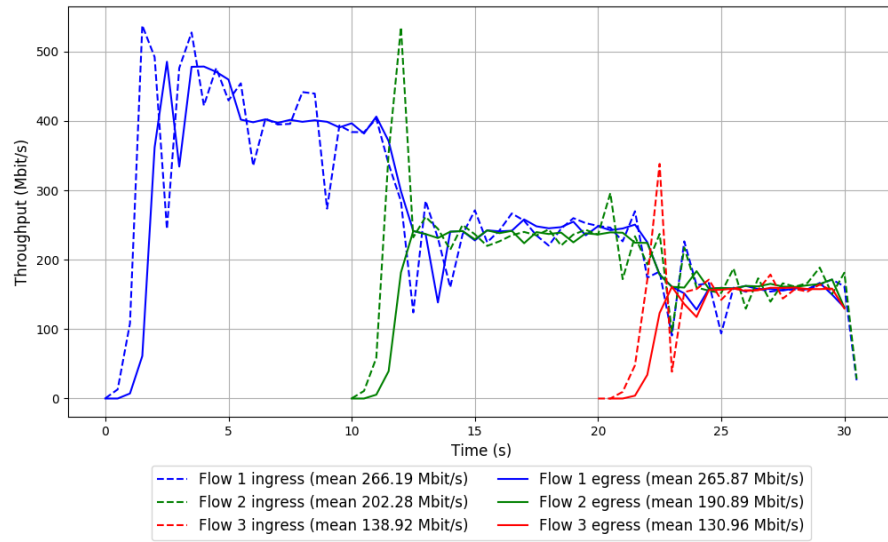


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-03 11:55:39  
End at: 2019-01-03 11:56:09  
Local clock offset: 1.104 ms  
Remote clock offset: -46.852 ms

# Below is generated by plot.py at 2019-01-03 13:24:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 433.52 Mbit/s  
95th percentile per-packet one-way delay: 327.303 ms  
Loss rate: 5.30%  
-- Flow 1:  
Average throughput: 265.87 Mbit/s  
95th percentile per-packet one-way delay: 333.377 ms  
Loss rate: 2.74%  
-- Flow 2:  
Average throughput: 190.89 Mbit/s  
95th percentile per-packet one-way delay: 326.875 ms  
Loss rate: 9.42%  
-- Flow 3:  
Average throughput: 130.96 Mbit/s  
95th percentile per-packet one-way delay: 253.192 ms  
Loss rate: 8.10%

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





Run 5: Statistics of FillP-Sheep

Start at: 2019-01-03 12:40:26

End at: 2019-01-03 12:40:56

Local clock offset: 0.212 ms

Remote clock offset: -44.052 ms

# Below is generated by plot.py at 2019-01-03 13:27:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 432.53 Mbit/s

95th percentile per-packet one-way delay: 358.220 ms

Loss rate: 2.93%

-- Flow 1:

Average throughput: 280.55 Mbit/s

95th percentile per-packet one-way delay: 338.152 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 174.58 Mbit/s

95th percentile per-packet one-way delay: 398.018 ms

Loss rate: 3.90%

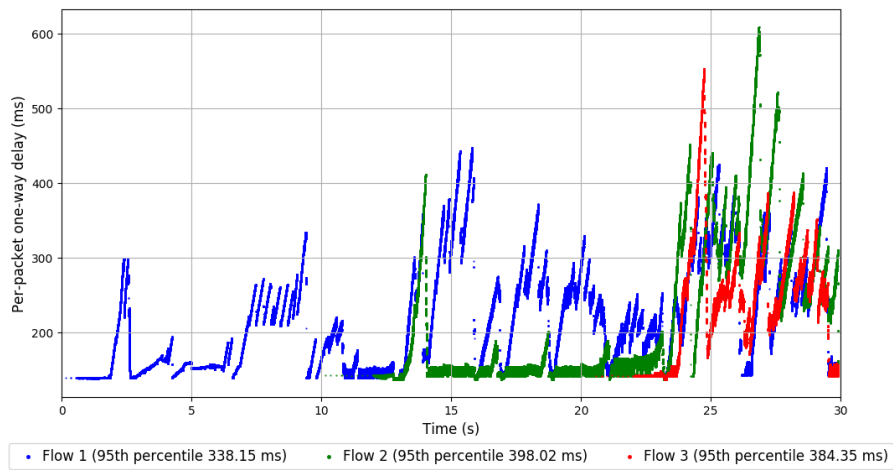
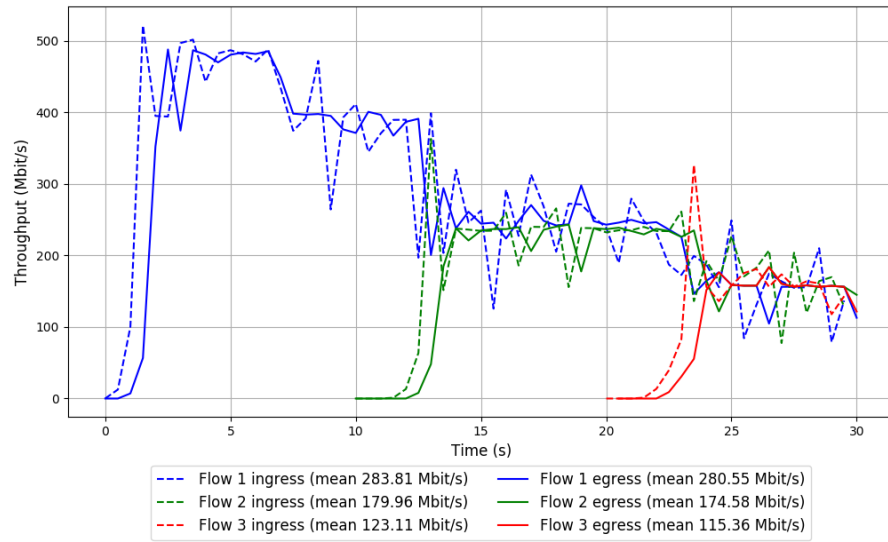
-- Flow 3:

Average throughput: 115.36 Mbit/s

95th percentile per-packet one-way delay: 384.351 ms

Loss rate: 8.27%

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

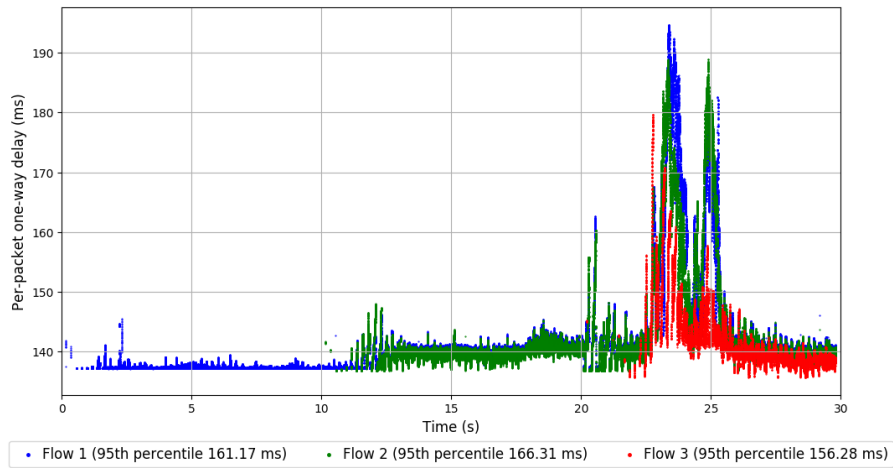
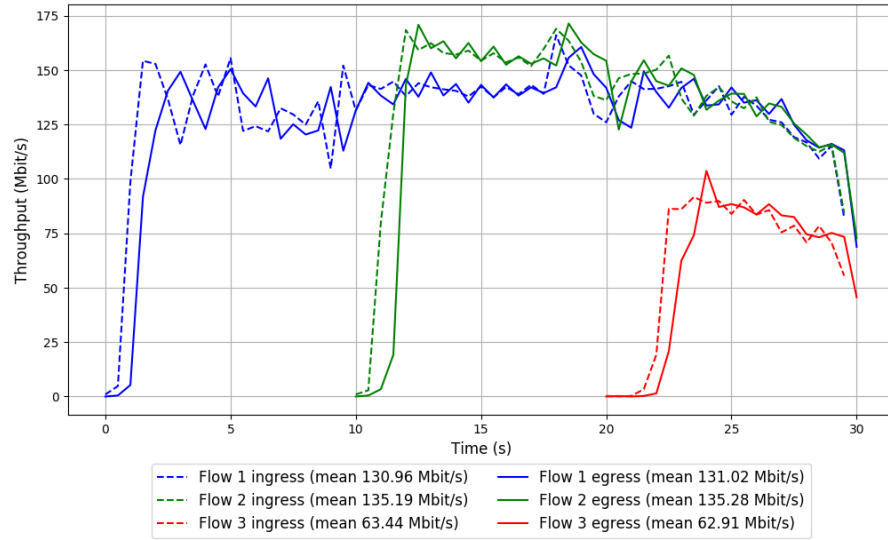


Run 1: Statistics of Indigo

Start at: 2019-01-03 09:49:23  
End at: 2019-01-03 09:49:53  
Local clock offset: 2.887 ms  
Remote clock offset: -40.256 ms

# Below is generated by plot.py at 2019-01-03 13:27:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 240.96 Mbit/s  
95th percentile per-packet one-way delay: 162.403 ms  
Loss rate: 0.92%  
-- Flow 1:  
Average throughput: 131.02 Mbit/s  
95th percentile per-packet one-way delay: 161.170 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 135.28 Mbit/s  
95th percentile per-packet one-way delay: 166.315 ms  
Loss rate: 0.94%  
-- Flow 3:  
Average throughput: 62.91 Mbit/s  
95th percentile per-packet one-way delay: 156.276 ms  
Loss rate: 2.71%

## Run 1: Report of Indigo — Data Link

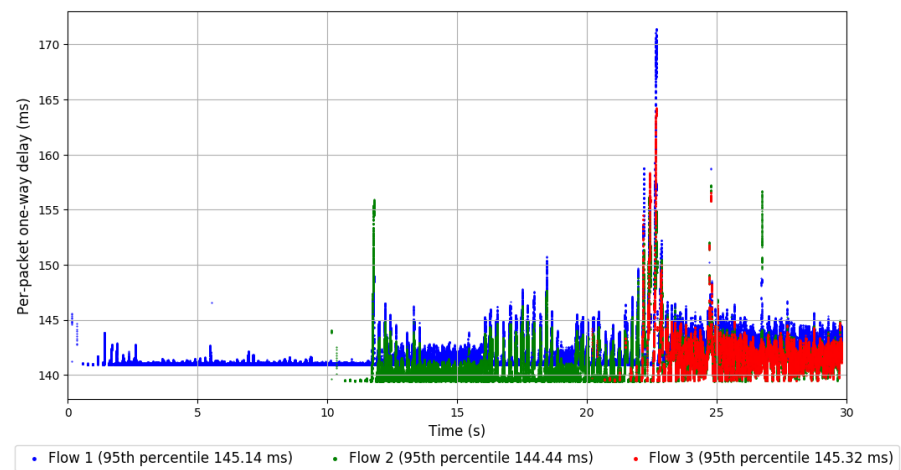
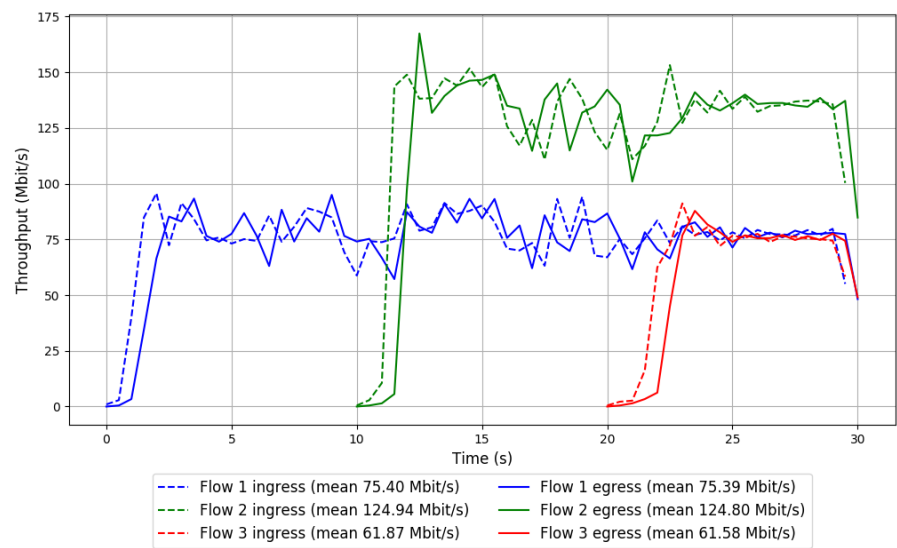


Run 2: Statistics of Indigo

Start at: 2019-01-03 10:32:58  
End at: 2019-01-03 10:33:28  
Local clock offset: 3.032 ms  
Remote clock offset: -43.59 ms

# Below is generated by plot.py at 2019-01-03 13:27:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 178.07 Mbit/s  
95th percentile per-packet one-way delay: 144.936 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 75.39 Mbit/s  
95th percentile per-packet one-way delay: 145.137 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 124.80 Mbit/s  
95th percentile per-packet one-way delay: 144.439 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 61.58 Mbit/s  
95th percentile per-packet one-way delay: 145.325 ms  
Loss rate: 2.45%

Run 2: Report of Indigo — Data Link

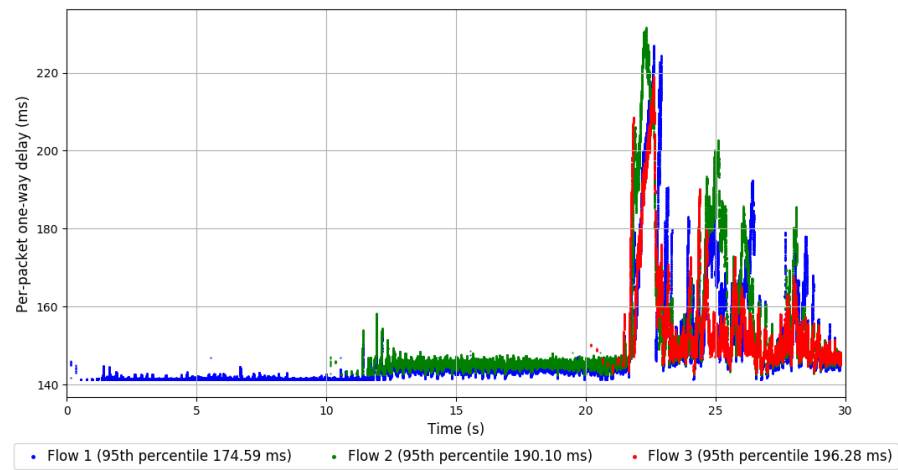
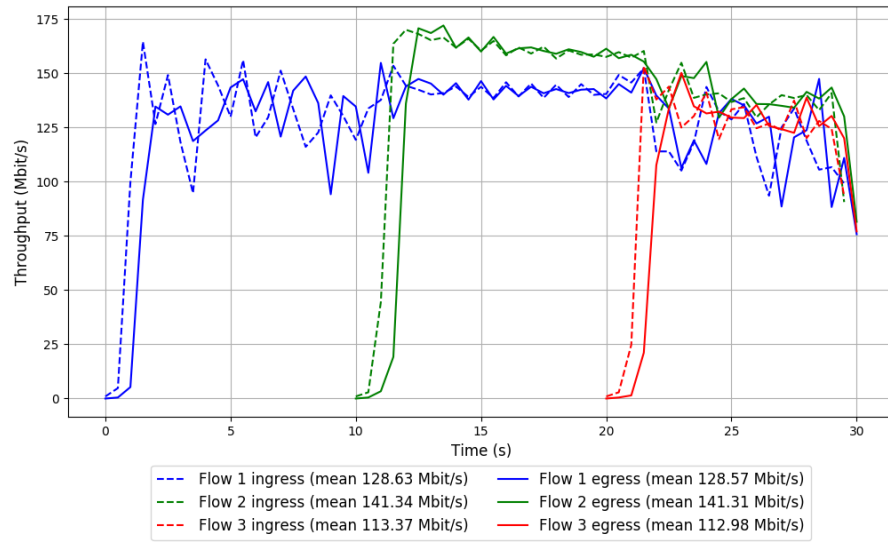


Run 3: Statistics of Indigo

Start at: 2019-01-03 11:22:28  
End at: 2019-01-03 11:22:58  
Local clock offset: 0.246 ms  
Remote clock offset: -47.997 ms

# Below is generated by plot.py at 2019-01-03 13:27:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 258.65 Mbit/s  
95th percentile per-packet one-way delay: 182.980 ms  
Loss rate: 1.07%  
-- Flow 1:  
Average throughput: 128.57 Mbit/s  
95th percentile per-packet one-way delay: 174.591 ms  
Loss rate: 0.71%  
-- Flow 2:  
Average throughput: 141.31 Mbit/s  
95th percentile per-packet one-way delay: 190.096 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 112.98 Mbit/s  
95th percentile per-packet one-way delay: 196.281 ms  
Loss rate: 2.42%

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



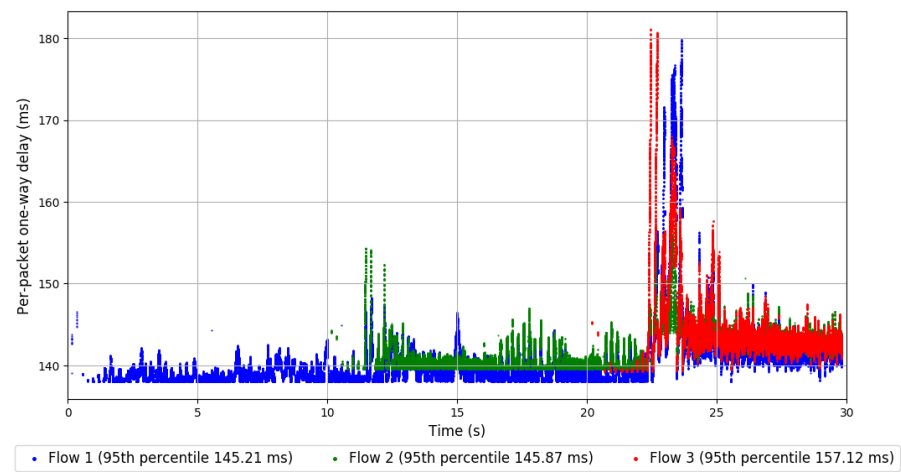
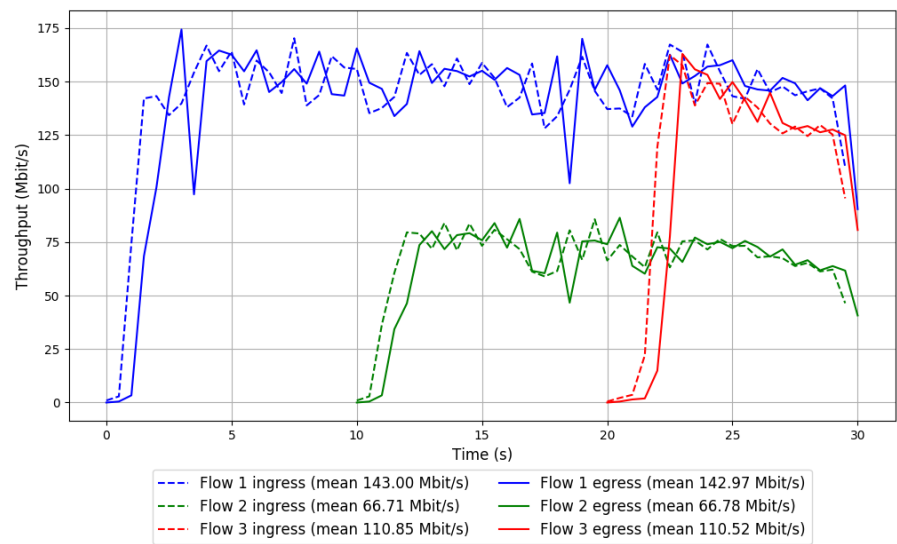


Run 4: Statistics of Indigo

Start at: 2019-01-03 12:11:18  
End at: 2019-01-03 12:11:48  
Local clock offset: 2.055 ms  
Remote clock offset: -43.152 ms

# Below is generated by plot.py at 2019-01-03 13:27:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 222.97 Mbit/s  
95th percentile per-packet one-way delay: 147.699 ms  
Loss rate: 1.00%  
-- Flow 1:  
Average throughput: 142.97 Mbit/s  
95th percentile per-packet one-way delay: 145.207 ms  
Loss rate: 0.68%  
-- Flow 2:  
Average throughput: 66.78 Mbit/s  
95th percentile per-packet one-way delay: 145.870 ms  
Loss rate: 0.92%  
-- Flow 3:  
Average throughput: 110.52 Mbit/s  
95th percentile per-packet one-way delay: 157.123 ms  
Loss rate: 2.37%

Run 4: Report of Indigo — Data Link

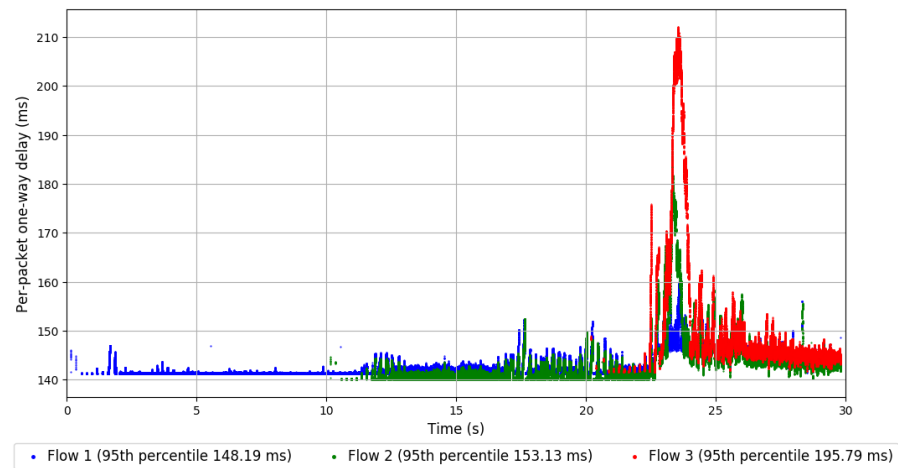
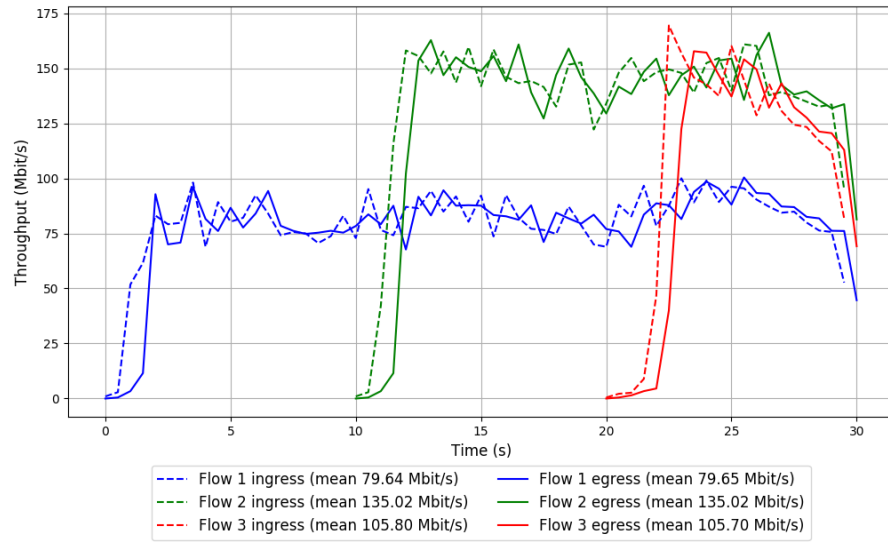


Run 5: Statistics of Indigo

Start at: 2019-01-03 12:50:46  
End at: 2019-01-03 12:51:16  
Local clock offset: 1.045 ms  
Remote clock offset: -46.218 ms

# Below is generated by plot.py at 2019-01-03 13:27:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 203.36 Mbit/s  
95th percentile per-packet one-way delay: 155.269 ms  
Loss rate: 1.05%  
-- Flow 1:  
Average throughput: 79.65 Mbit/s  
95th percentile per-packet one-way delay: 148.187 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 135.02 Mbit/s  
95th percentile per-packet one-way delay: 153.128 ms  
Loss rate: 0.99%  
-- Flow 3:  
Average throughput: 105.70 Mbit/s  
95th percentile per-packet one-way delay: 195.794 ms  
Loss rate: 2.17%

## Run 5: Report of Indigo — Data Link

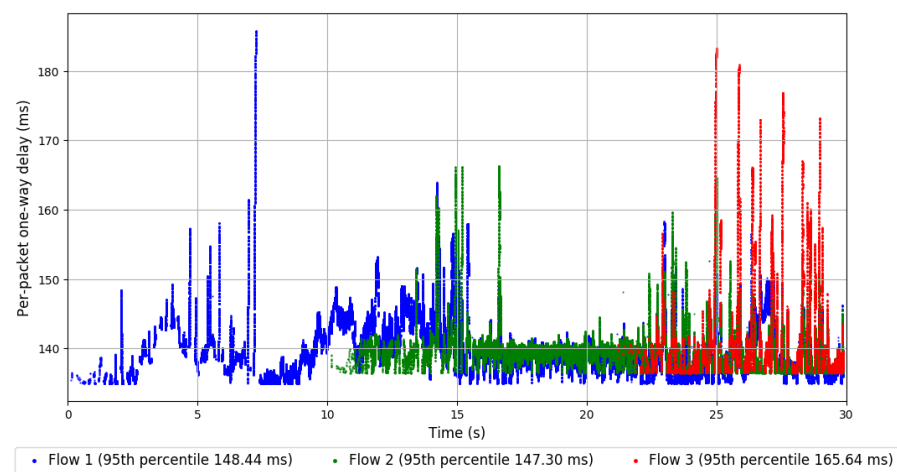
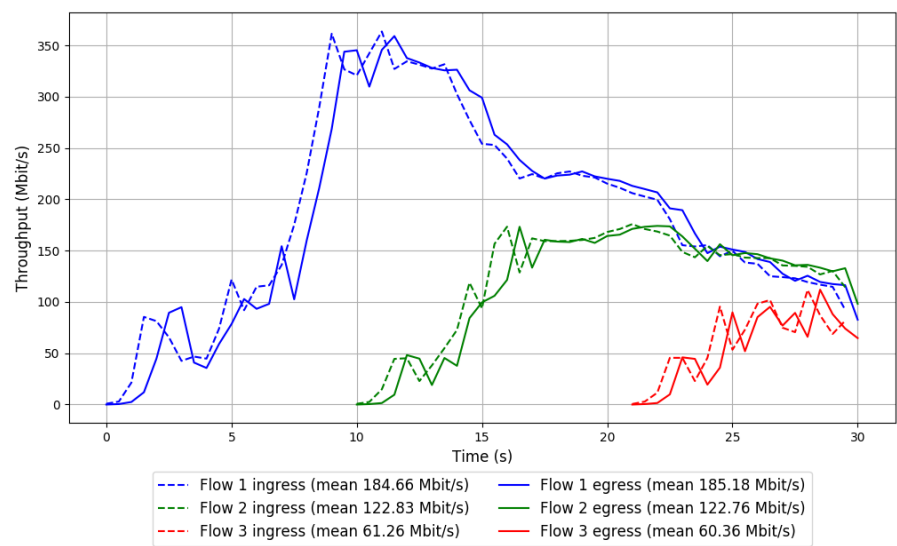


Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:10:35  
End at: 2019-01-03 10:11:05  
Local clock offset: 4.253 ms  
Remote clock offset: -38.749 ms

# Below is generated by plot.py at 2019-01-03 13:27:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 284.26 Mbit/s  
95th percentile per-packet one-way delay: 149.337 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 185.18 Mbit/s  
95th percentile per-packet one-way delay: 148.437 ms  
Loss rate: 0.38%  
-- Flow 2:  
Average throughput: 122.76 Mbit/s  
95th percentile per-packet one-way delay: 147.304 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 60.36 Mbit/s  
95th percentile per-packet one-way delay: 165.636 ms  
Loss rate: 3.66%

Run 1: Report of Indigo-MusesD — Data Link

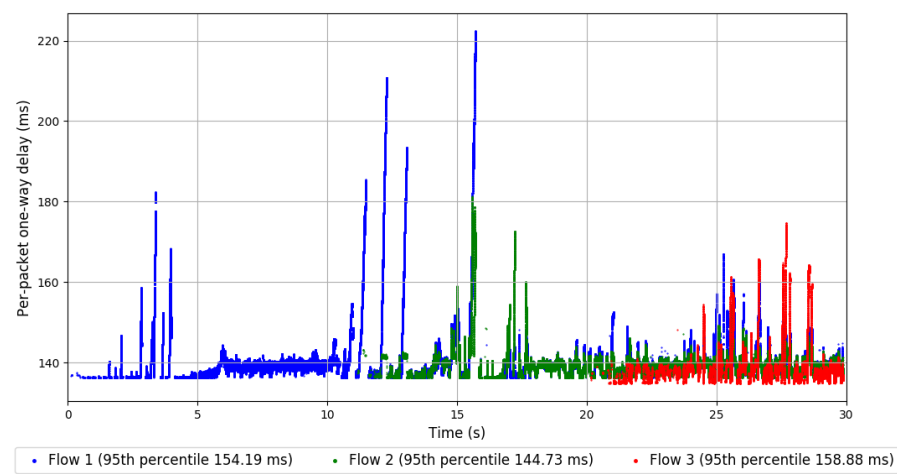
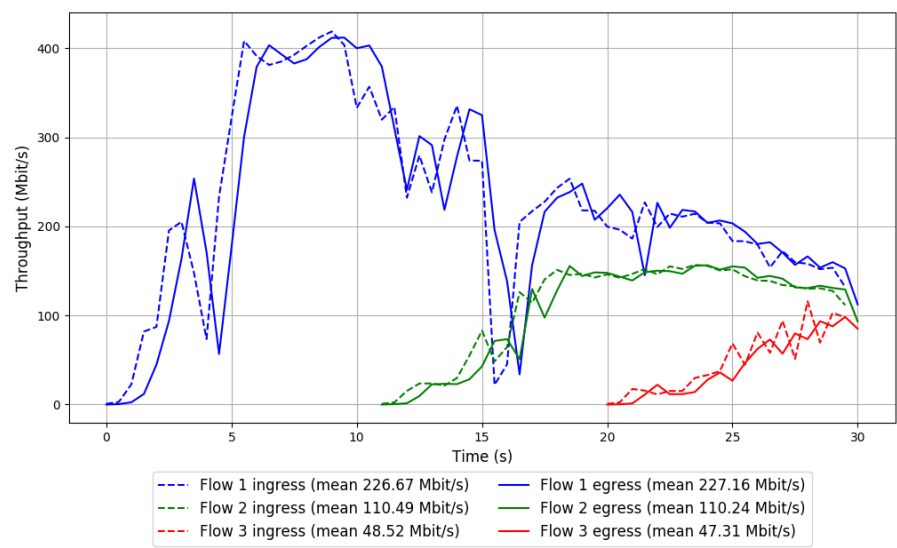


Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:44:36  
End at: 2019-01-03 10:45:06  
Local clock offset: -3.436 ms  
Remote clock offset: -45.301 ms

# Below is generated by plot.py at 2019-01-03 13:28:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 311.96 Mbit/s  
95th percentile per-packet one-way delay: 152.500 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 227.16 Mbit/s  
95th percentile per-packet one-way delay: 154.185 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 110.24 Mbit/s  
95th percentile per-packet one-way delay: 144.732 ms  
Loss rate: 1.26%  
-- Flow 3:  
Average throughput: 47.31 Mbit/s  
95th percentile per-packet one-way delay: 158.875 ms  
Loss rate: 4.43%

Run 2: Report of Indigo-MusesD — Data Link



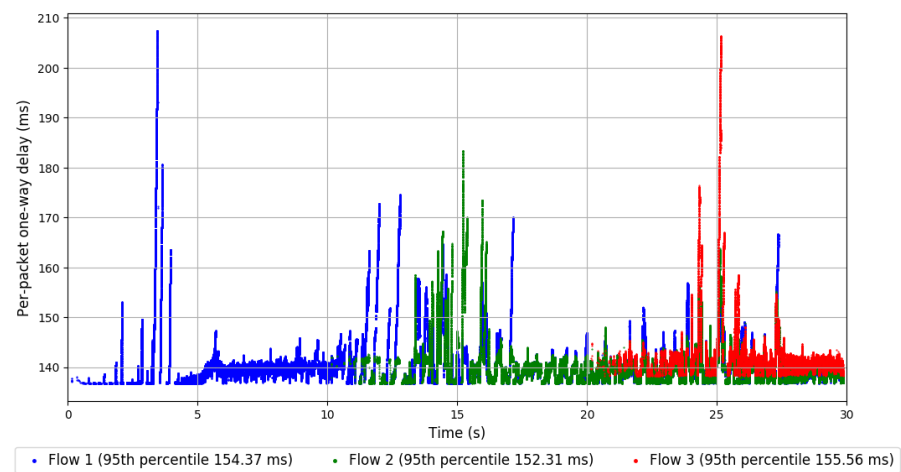
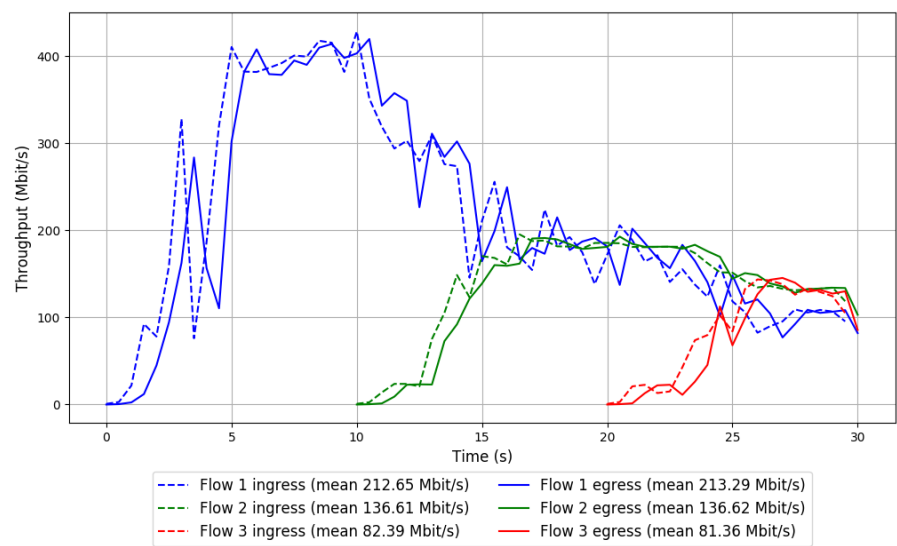


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-03 11:28:32  
End at: 2019-01-03 11:29:02  
Local clock offset: 2.385 ms  
Remote clock offset: -41.246 ms

# Below is generated by plot.py at 2019-01-03 13:29:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 330.50 Mbit/s  
95th percentile per-packet one-way delay: 153.996 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 213.29 Mbit/s  
95th percentile per-packet one-way delay: 154.368 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 136.62 Mbit/s  
95th percentile per-packet one-way delay: 152.311 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 81.36 Mbit/s  
95th percentile per-packet one-way delay: 155.559 ms  
Loss rate: 3.18%

Run 3: Report of Indigo-MusesD — Data Link

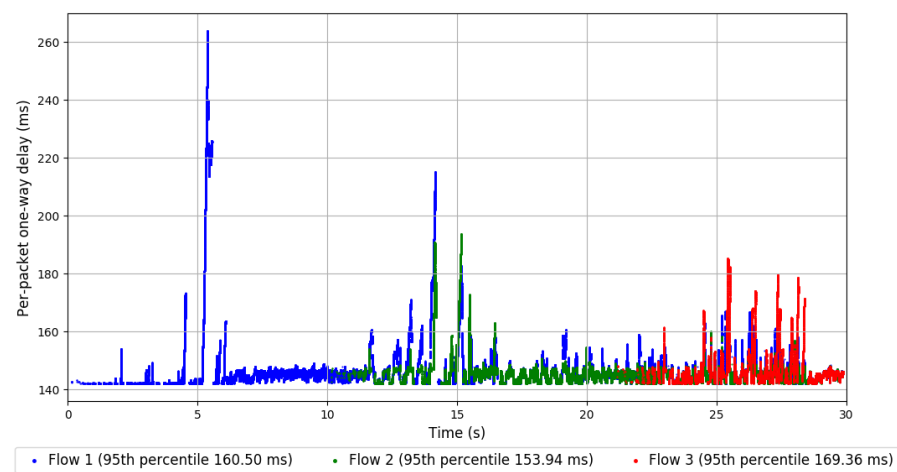
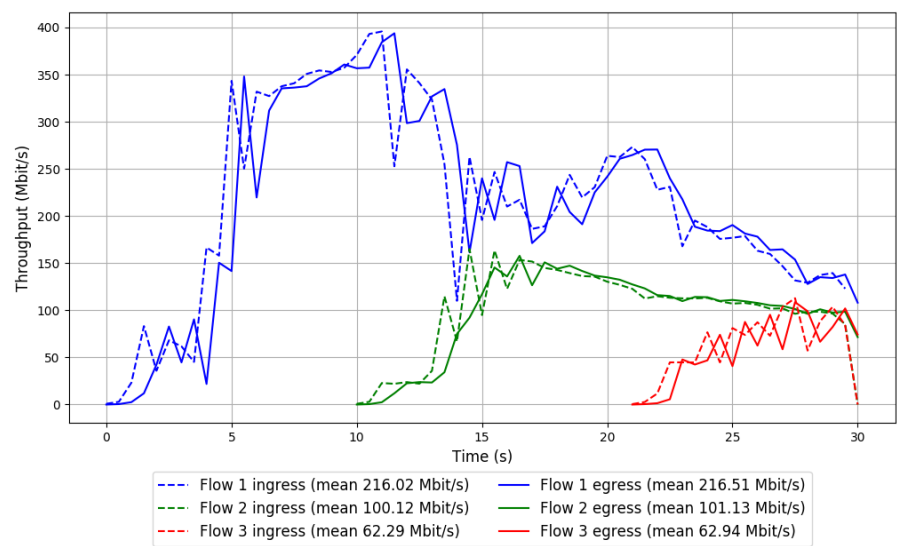


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-03 12:22:53  
End at: 2019-01-03 12:23:23  
Local clock offset: 1.434 ms  
Remote clock offset: -47.791 ms

# Below is generated by plot.py at 2019-01-03 13:29:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 302.02 Mbit/s  
95th percentile per-packet one-way delay: 160.749 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 216.51 Mbit/s  
95th percentile per-packet one-way delay: 160.499 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 101.13 Mbit/s  
95th percentile per-packet one-way delay: 153.937 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 62.94 Mbit/s  
95th percentile per-packet one-way delay: 169.361 ms  
Loss rate: 3.44%

Run 4: Report of Indigo-MusesD — Data Link

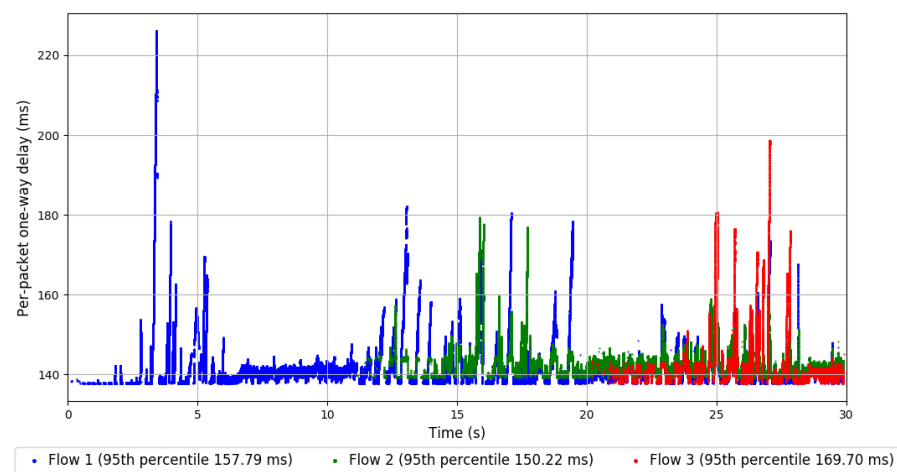
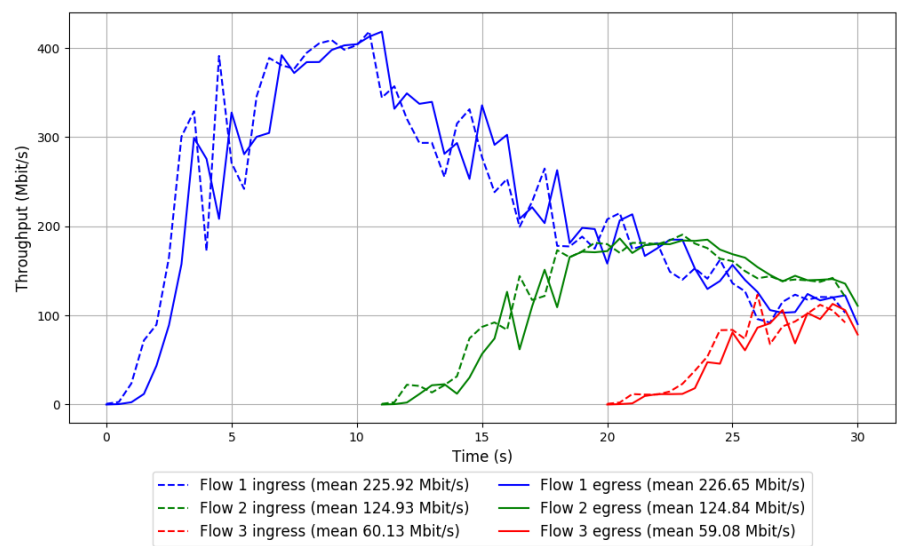


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-03 12:56:45  
End at: 2019-01-03 12:57:15  
Local clock offset: 2.802 ms  
Remote clock offset: -42.538 ms

# Below is generated by plot.py at 2019-01-03 13:30:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 324.51 Mbit/s  
95th percentile per-packet one-way delay: 156.600 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 226.65 Mbit/s  
95th percentile per-packet one-way delay: 157.788 ms  
Loss rate: 0.34%  
-- Flow 2:  
Average throughput: 124.84 Mbit/s  
95th percentile per-packet one-way delay: 150.225 ms  
Loss rate: 1.12%  
-- Flow 3:  
Average throughput: 59.08 Mbit/s  
95th percentile per-packet one-way delay: 169.704 ms  
Loss rate: 3.63%

Run 5: Report of Indigo-MusesD — Data Link

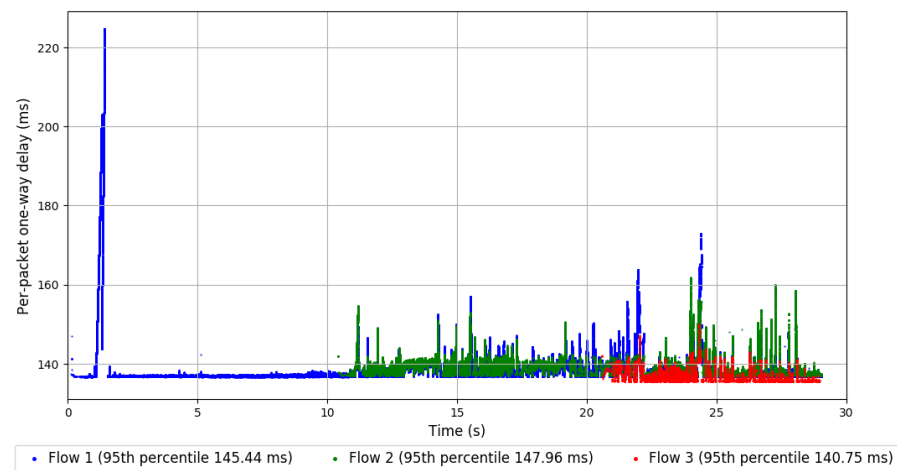
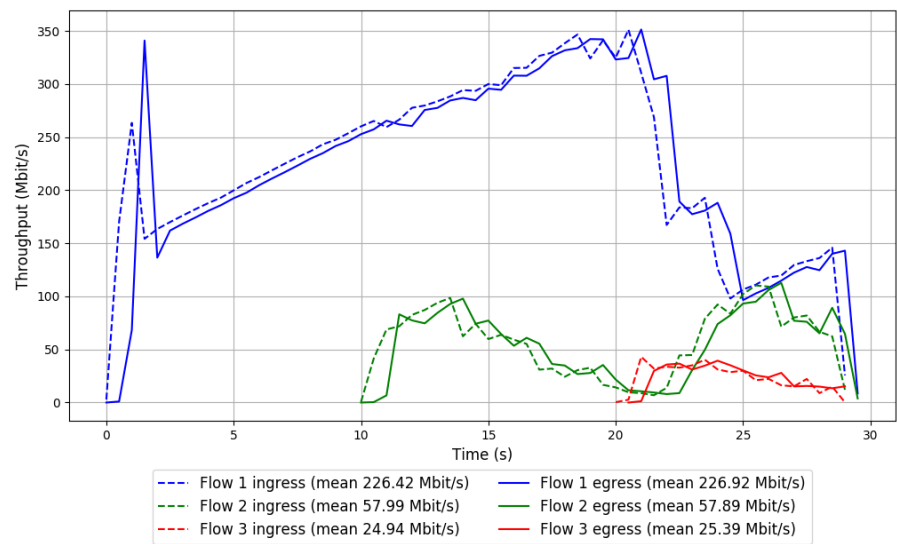


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:20:58  
End at: 2019-01-03 10:21:28  
Local clock offset: 2.445 ms  
Remote clock offset: -41.072 ms

# Below is generated by plot.py at 2019-01-03 13:30:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 271.55 Mbit/s  
95th percentile per-packet one-way delay: 145.764 ms  
Loss rate: 0.58%  
-- Flow 1:  
Average throughput: 226.92 Mbit/s  
95th percentile per-packet one-way delay: 145.445 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 57.89 Mbit/s  
95th percentile per-packet one-way delay: 147.955 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 25.39 Mbit/s  
95th percentile per-packet one-way delay: 140.749 ms  
Loss rate: 1.13%

Run 1: Report of Indigo-MusesT — Data Link



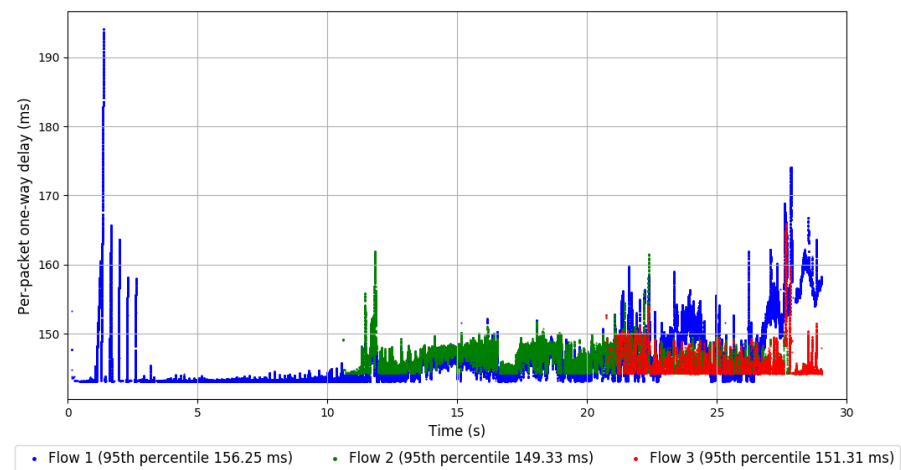
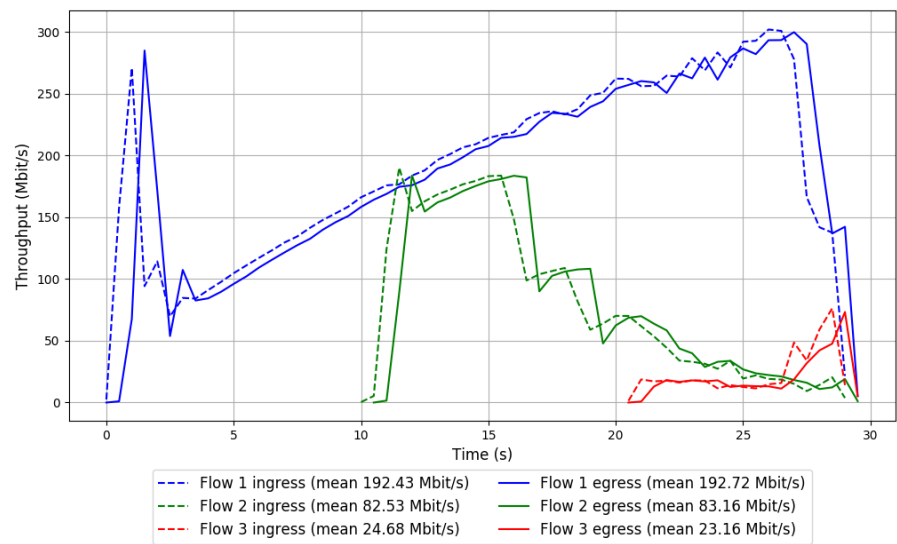


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:00:34  
End at: 2019-01-03 11:01:04  
Local clock offset: 2.291 ms  
Remote clock offset: -48.033 ms

# Below is generated by plot.py at 2019-01-03 13:30:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 252.40 Mbit/s  
95th percentile per-packet one-way delay: 155.275 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 192.72 Mbit/s  
95th percentile per-packet one-way delay: 156.246 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 83.16 Mbit/s  
95th percentile per-packet one-way delay: 149.328 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 23.16 Mbit/s  
95th percentile per-packet one-way delay: 151.315 ms  
Loss rate: 8.34%

Run 2: Report of Indigo-MusesT — Data Link

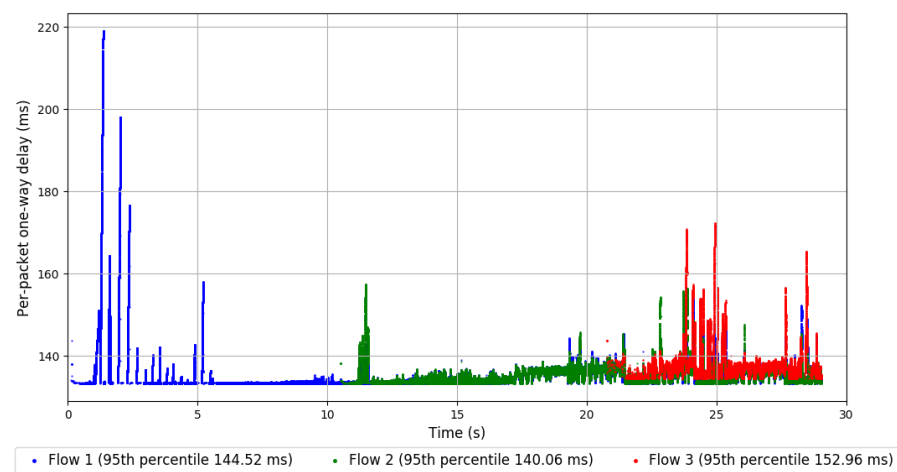
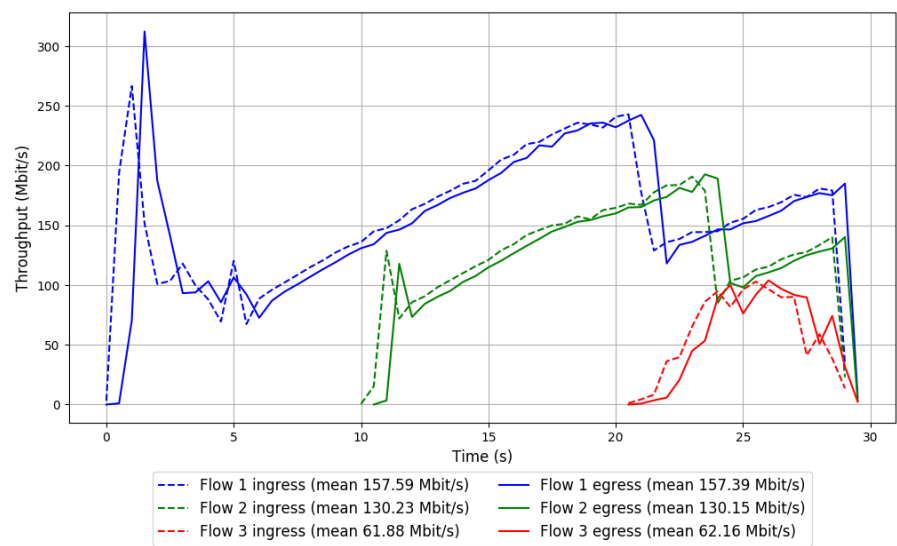


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:54:08  
End at: 2019-01-03 11:54:38  
Local clock offset: -1.758 ms  
Remote clock offset: -41.837 ms

# Below is generated by plot.py at 2019-01-03 13:30:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 258.58 Mbit/s  
95th percentile per-packet one-way delay: 143.672 ms  
Loss rate: 0.99%  
-- Flow 1:  
Average throughput: 157.39 Mbit/s  
95th percentile per-packet one-way delay: 144.520 ms  
Loss rate: 0.81%  
-- Flow 2:  
Average throughput: 130.15 Mbit/s  
95th percentile per-packet one-way delay: 140.063 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 62.16 Mbit/s  
95th percentile per-packet one-way delay: 152.961 ms  
Loss rate: 1.75%

Run 3: Report of Indigo-MusesT — Data Link

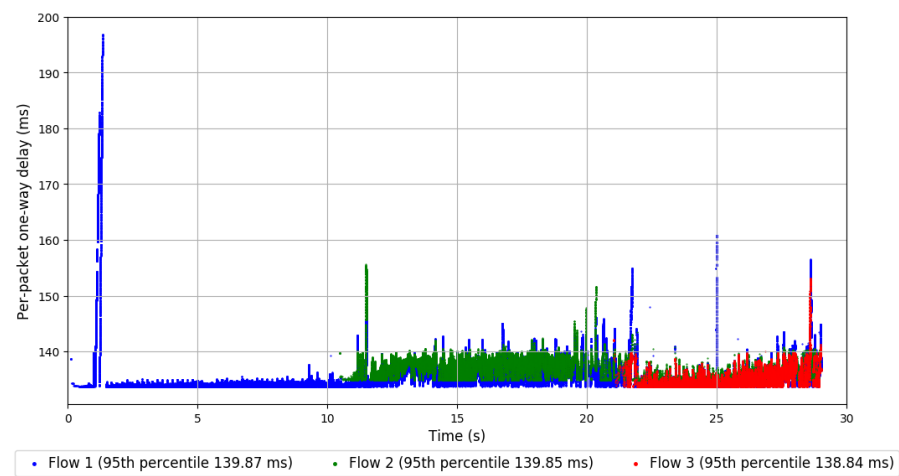
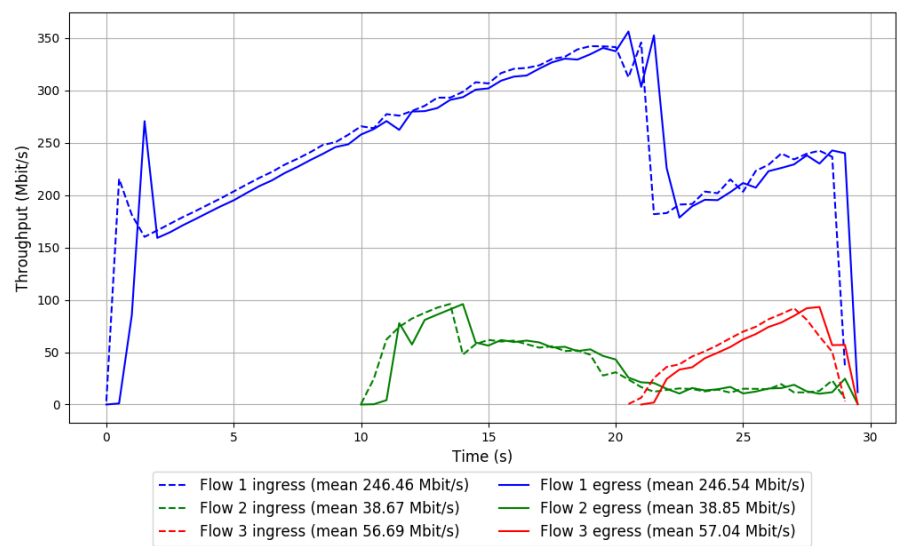


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-03 12:38:55  
End at: 2019-01-03 12:39:25  
Local clock offset: -0.377 ms  
Remote clock offset: -41.267 ms

# Below is generated by plot.py at 2019-01-03 13:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 287.23 Mbit/s  
95th percentile per-packet one-way delay: 139.759 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 246.54 Mbit/s  
95th percentile per-packet one-way delay: 139.867 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 139.850 ms  
Loss rate: 0.62%  
-- Flow 3:  
Average throughput: 57.04 Mbit/s  
95th percentile per-packet one-way delay: 138.845 ms  
Loss rate: 1.82%

Run 4: Report of Indigo-MusesT — Data Link

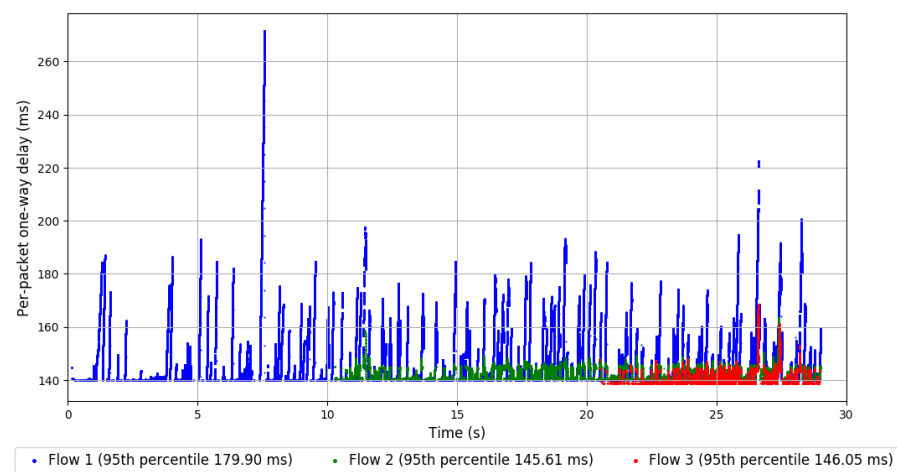
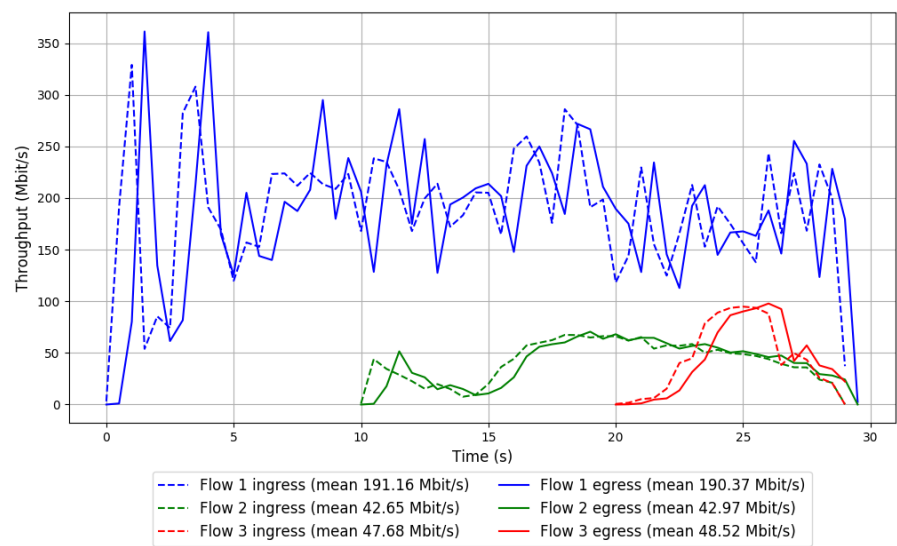


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-03 13:07:04  
End at: 2019-01-03 13:07:34  
Local clock offset: 1.626 ms  
Remote clock offset: -45.159 ms

# Below is generated by plot.py at 2019-01-03 13:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 232.54 Mbit/s  
95th percentile per-packet one-way delay: 177.049 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 190.37 Mbit/s  
95th percentile per-packet one-way delay: 179.898 ms  
Loss rate: 1.09%  
-- Flow 2:  
Average throughput: 42.97 Mbit/s  
95th percentile per-packet one-way delay: 145.607 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 48.52 Mbit/s  
95th percentile per-packet one-way delay: 146.049 ms  
Loss rate: 0.64%

Run 5: Report of Indigo-MusesT — Data Link



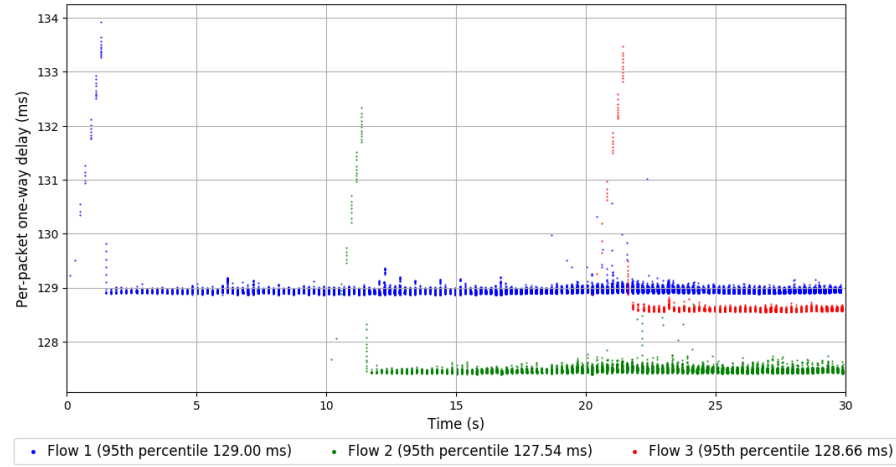
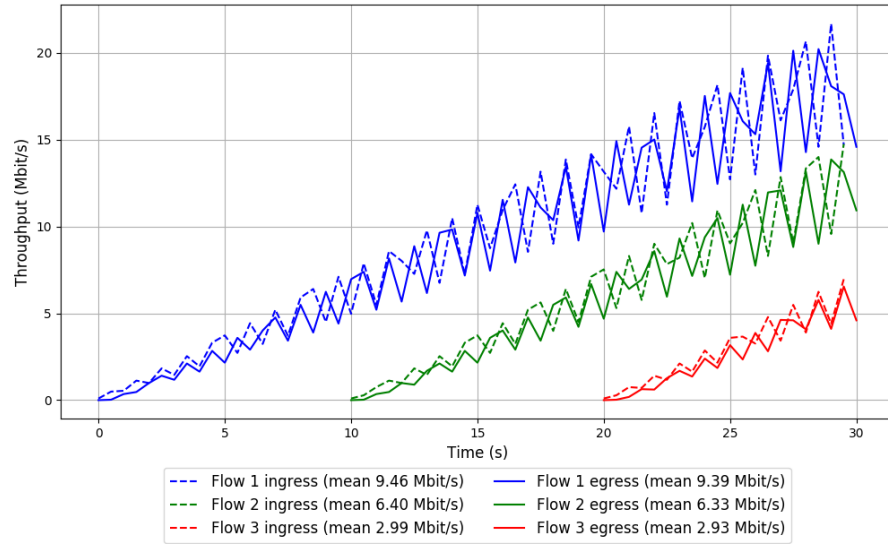


```
Run 1: Statistics of LEDBAT

Start at: 2019-01-03 09:48:03
End at: 2019-01-03 09:48:33
Local clock offset: 3.703 ms
Remote clock offset: -31.192 ms

# Below is generated by plot.py at 2019-01-03 13:31:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 128.989 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 9.39 Mbit/s
95th percentile per-packet one-way delay: 129.002 ms
Loss rate: 1.31%
-- Flow 2:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 127.544 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 128.663 ms
Loss rate: 4.02%
```

# Run 1: Report of LEDBAT — Data Link

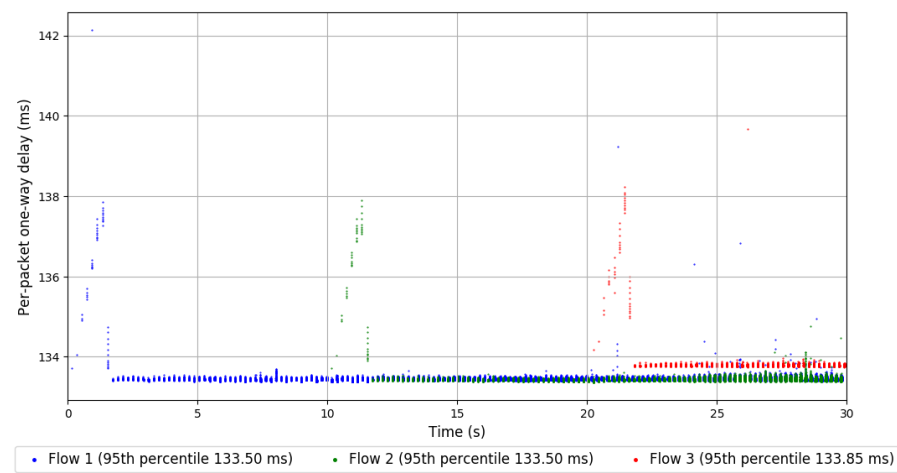
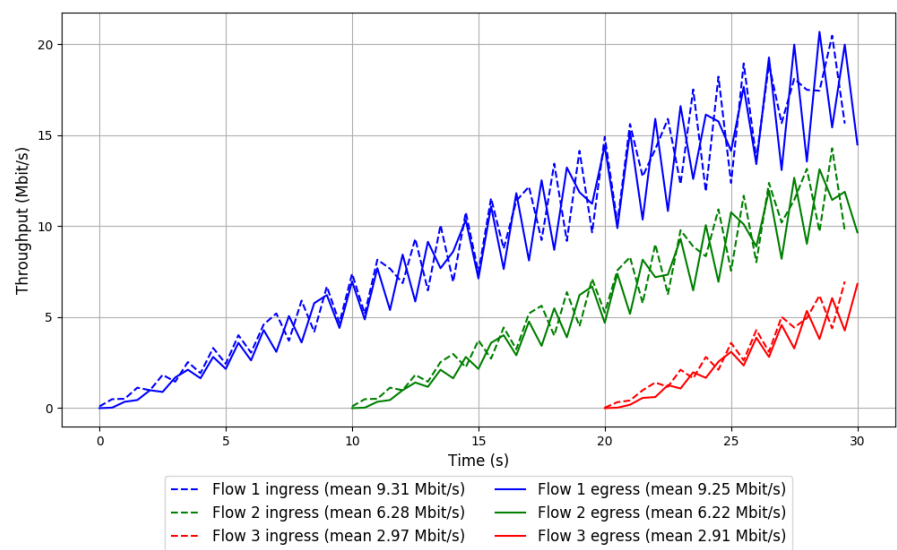


Run 2: Statistics of LEDBAT

Start at: 2019-01-03 10:31:39  
End at: 2019-01-03 10:32:09  
Local clock offset: -0.779 ms  
Remote clock offset: -40.189 ms

# Below is generated by plot.py at 2019-01-03 13:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.28 Mbit/s  
95th percentile per-packet one-way delay: 133.776 ms  
Loss rate: 1.69%  
-- Flow 1:  
Average throughput: 9.25 Mbit/s  
95th percentile per-packet one-way delay: 133.505 ms  
Loss rate: 1.31%  
-- Flow 2:  
Average throughput: 6.22 Mbit/s  
95th percentile per-packet one-way delay: 133.503 ms  
Loss rate: 1.96%  
-- Flow 3:  
Average throughput: 2.91 Mbit/s  
95th percentile per-packet one-way delay: 133.848 ms  
Loss rate: 4.04%

Run 2: Report of LEDBAT — Data Link

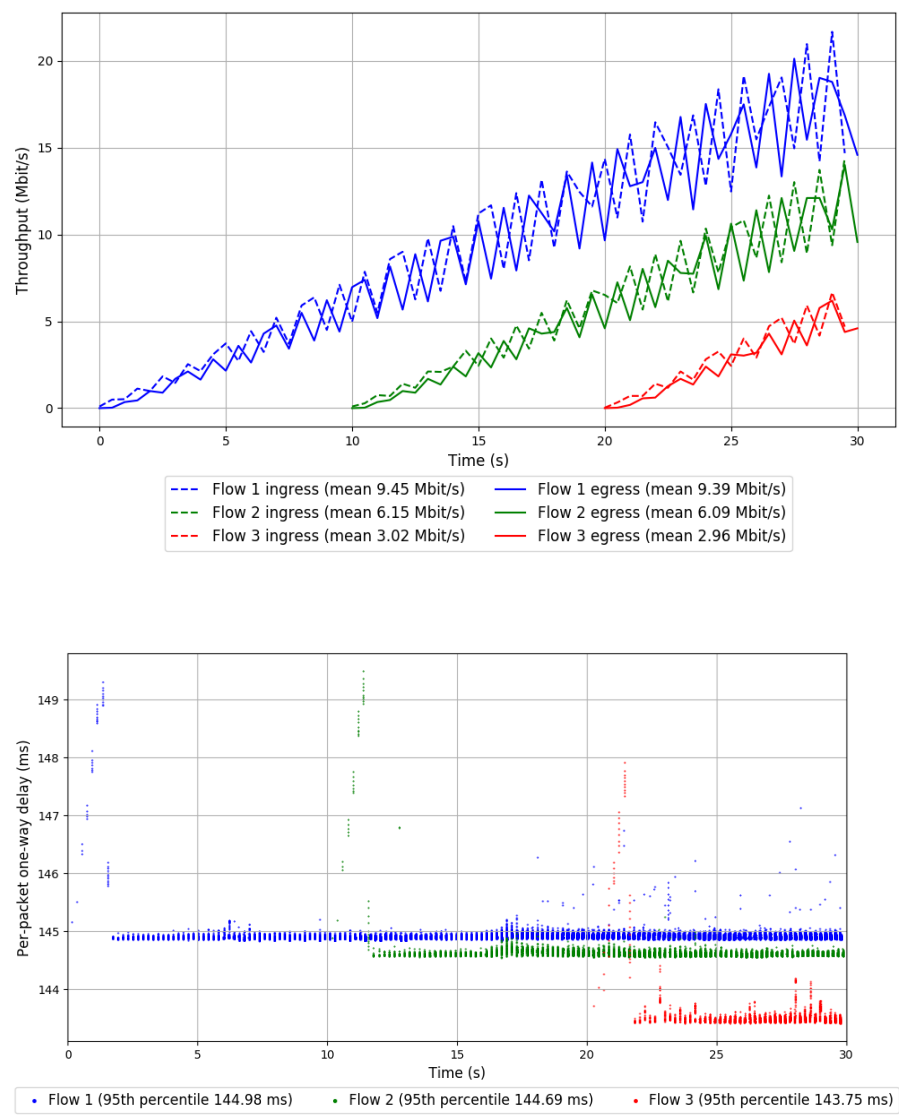


Run 3: Statistics of LEDBAT

Start at: 2019-01-03 11:21:08  
End at: 2019-01-03 11:21:38  
Local clock offset: 2.897 ms  
Remote clock offset: -47.462 ms

# Below is generated by plot.py at 2019-01-03 13:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.34 Mbit/s  
95th percentile per-packet one-way delay: 144.964 ms  
Loss rate: 1.68%  
-- Flow 1:  
Average throughput: 9.39 Mbit/s  
95th percentile per-packet one-way delay: 144.976 ms  
Loss rate: 1.30%  
-- Flow 2:  
Average throughput: 6.09 Mbit/s  
95th percentile per-packet one-way delay: 144.693 ms  
Loss rate: 1.98%  
-- Flow 3:  
Average throughput: 2.96 Mbit/s  
95th percentile per-packet one-way delay: 143.753 ms  
Loss rate: 4.04%

Run 3: Report of LEDBAT — Data Link

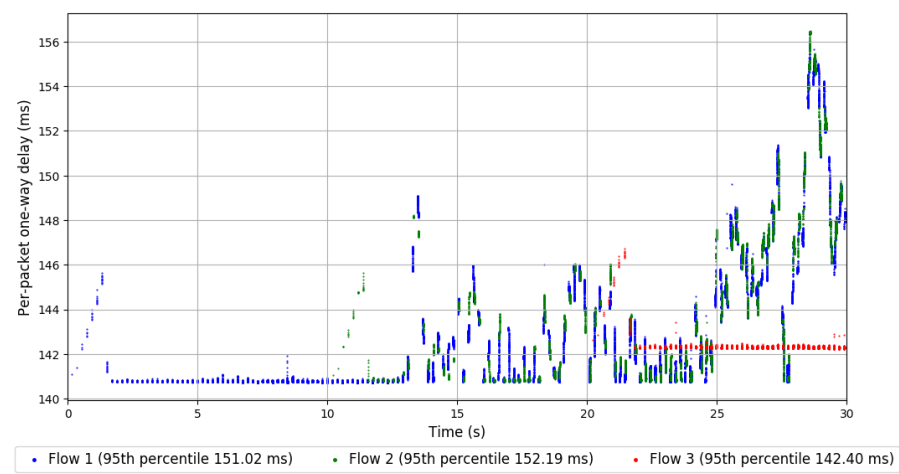
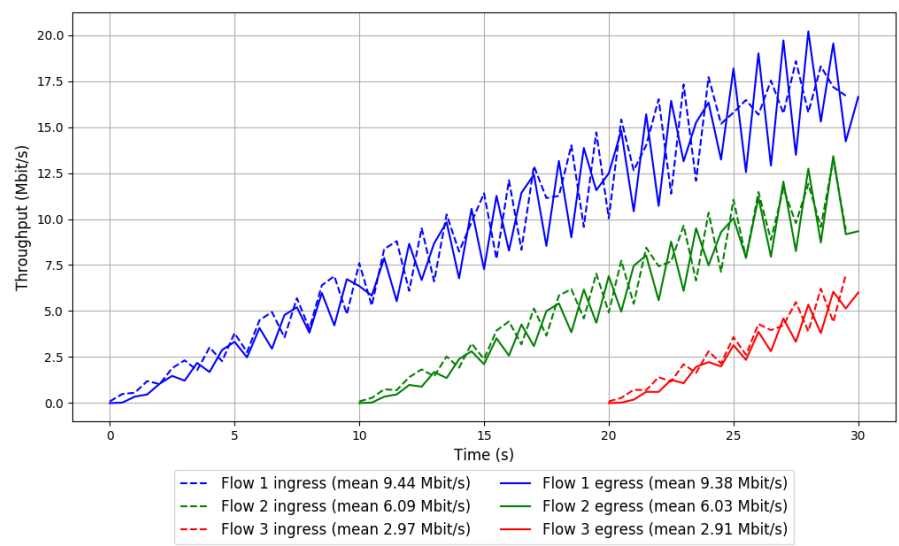


Run 4: Statistics of LEDBAT

Start at: 2019-01-03 12:09:59  
End at: 2019-01-03 12:10:29  
Local clock offset: 0.59 ms  
Remote clock offset: -47.296 ms

# Below is generated by plot.py at 2019-01-03 13:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.29 Mbit/s  
95th percentile per-packet one-way delay: 151.332 ms  
Loss rate: 1.66%  
-- Flow 1:  
Average throughput: 9.38 Mbit/s  
95th percentile per-packet one-way delay: 151.024 ms  
Loss rate: 1.28%  
-- Flow 2:  
Average throughput: 6.03 Mbit/s  
95th percentile per-packet one-way delay: 152.189 ms  
Loss rate: 1.97%  
-- Flow 3:  
Average throughput: 2.91 Mbit/s  
95th percentile per-packet one-way delay: 142.400 ms  
Loss rate: 4.03%

Run 4: Report of LEDBAT — Data Link



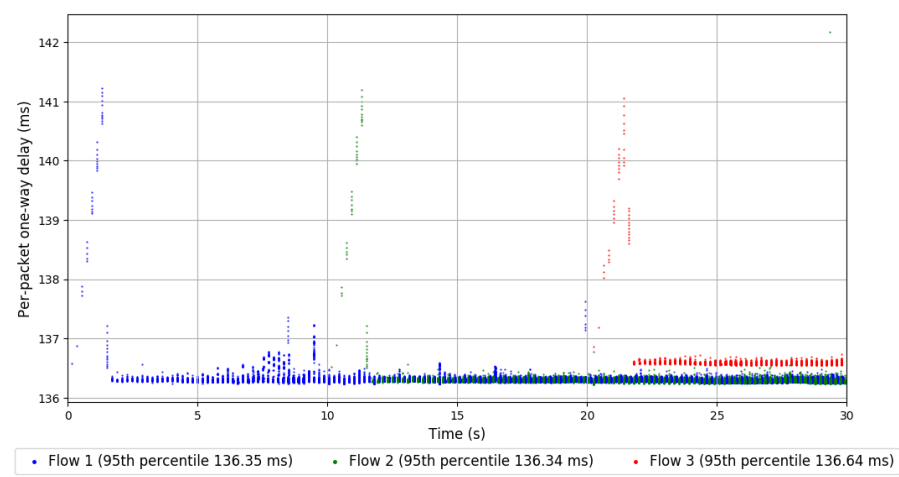
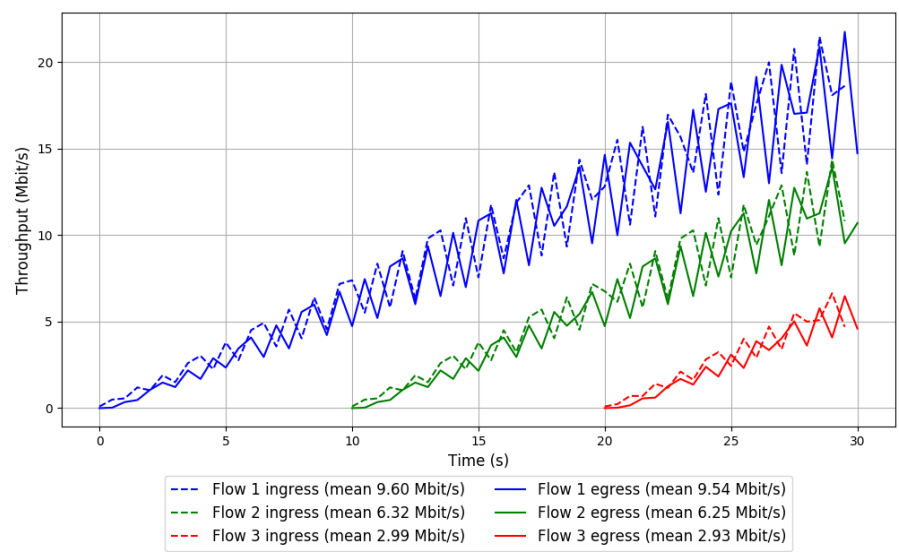


Run 5: Statistics of LEDBAT

Start at: 2019-01-03 12:49:26  
End at: 2019-01-03 12:49:56  
Local clock offset: -1.433 ms  
Remote clock offset: -43.619 ms

# Below is generated by plot.py at 2019-01-03 13:31:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.61 Mbit/s  
95th percentile per-packet one-way delay: 136.574 ms  
Loss rate: 1.67%  
-- Flow 1:  
Average throughput: 9.54 Mbit/s  
95th percentile per-packet one-way delay: 136.354 ms  
Loss rate: 1.29%  
-- Flow 2:  
Average throughput: 6.25 Mbit/s  
95th percentile per-packet one-way delay: 136.339 ms  
Loss rate: 1.96%  
-- Flow 3:  
Average throughput: 2.93 Mbit/s  
95th percentile per-packet one-way delay: 136.640 ms  
Loss rate: 4.05%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-01-03 09:56:21

End at: 2019-01-03 09:56:51

Local clock offset: 2.692 ms

Remote clock offset: -40.073 ms

# Below is generated by plot.py at 2019-01-03 13:34:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 370.51 Mbit/s

95th percentile per-packet one-way delay: 265.986 ms

Loss rate: 0.79%

-- Flow 1:

Average throughput: 325.30 Mbit/s

95th percentile per-packet one-way delay: 272.392 ms

Loss rate: 0.75%

-- Flow 2:

Average throughput: 67.17 Mbit/s

95th percentile per-packet one-way delay: 141.697 ms

Loss rate: 1.05%

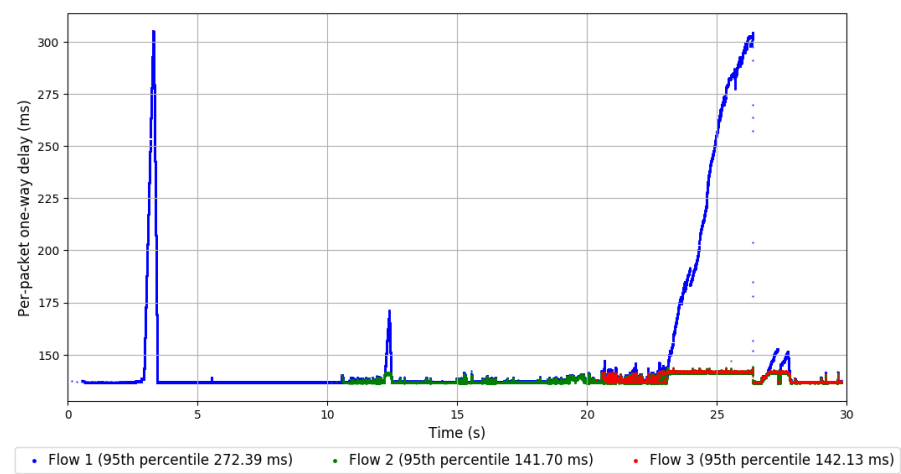
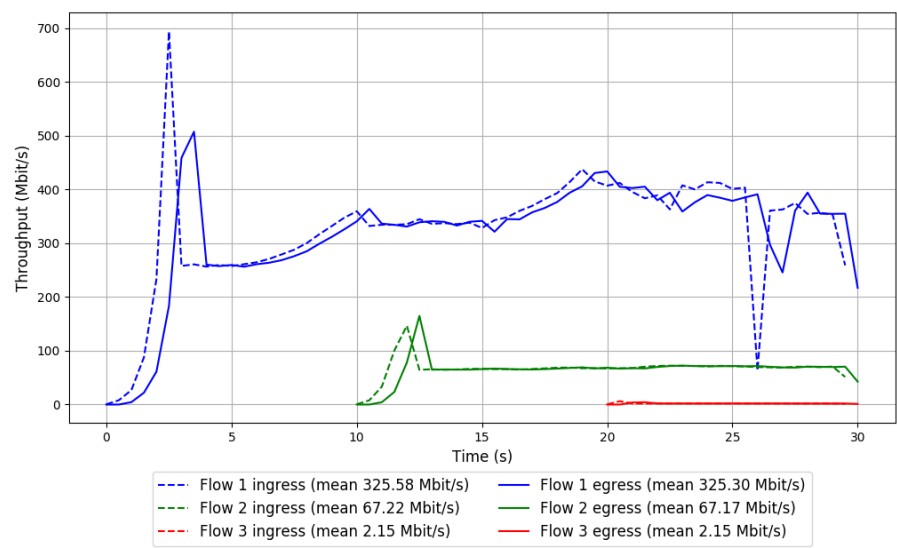
-- Flow 3:

Average throughput: 2.15 Mbit/s

95th percentile per-packet one-way delay: 142.129 ms

Loss rate: 1.81%

Run 1: Report of PCC-Allegro — Data Link

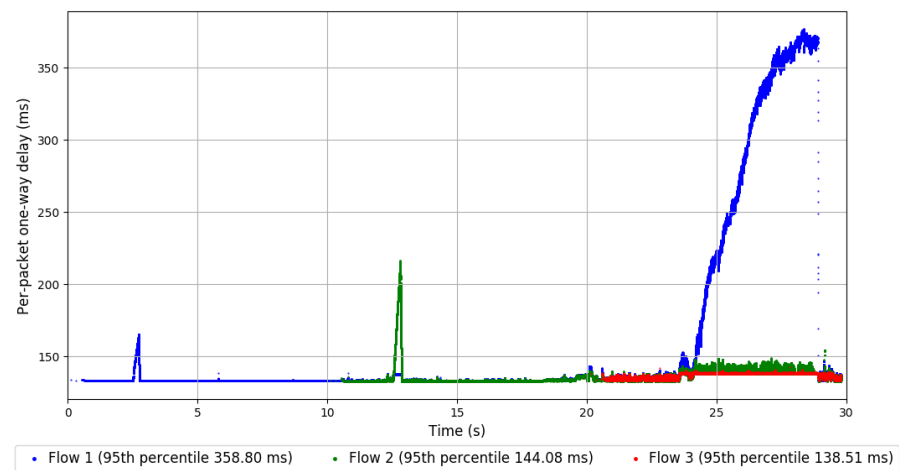
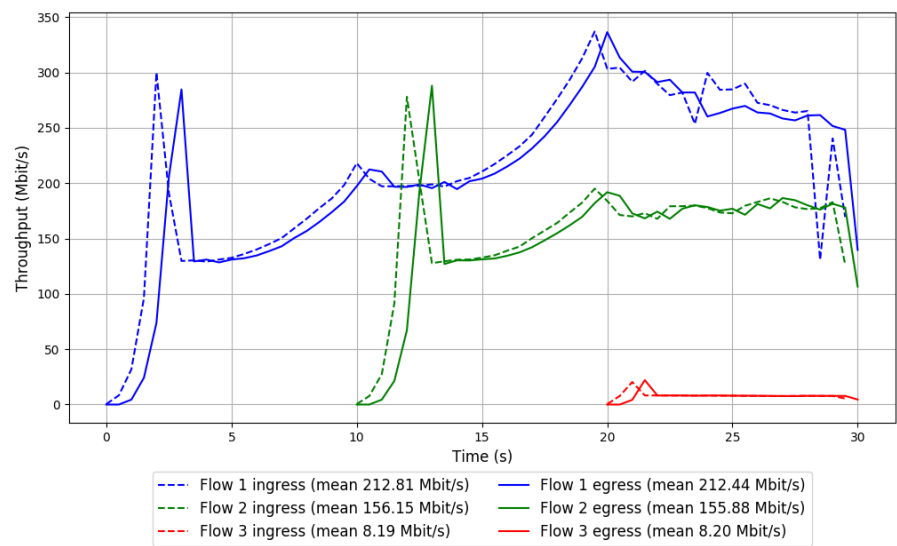


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-03 10:34:28  
End at: 2019-01-03 10:34:58  
Local clock offset: 0.27 ms  
Remote clock offset: -38.383 ms

# Below is generated by plot.py at 2019-01-03 13:34:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 318.41 Mbit/s  
95th percentile per-packet one-way delay: 342.873 ms  
Loss rate: 0.94%  
-- Flow 1:  
Average throughput: 212.44 Mbit/s  
95th percentile per-packet one-way delay: 358.797 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 155.88 Mbit/s  
95th percentile per-packet one-way delay: 144.079 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 8.20 Mbit/s  
95th percentile per-packet one-way delay: 138.508 ms  
Loss rate: 1.88%

Run 2: Report of PCC-Allegro — Data Link

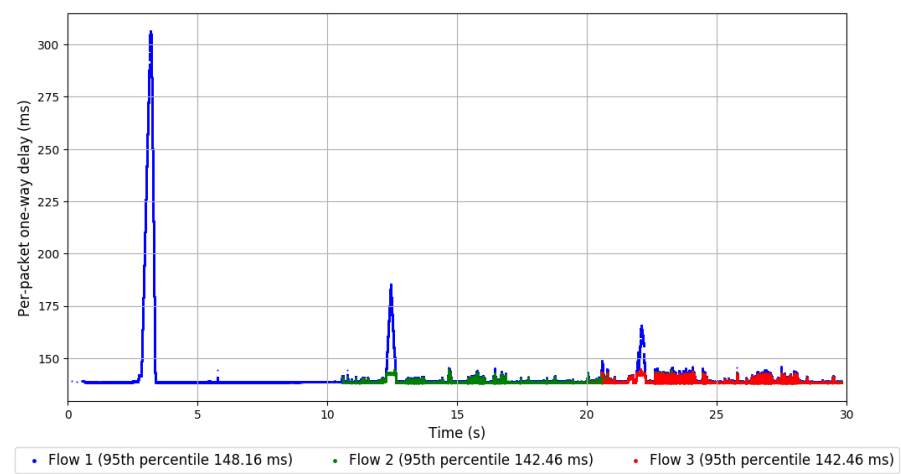
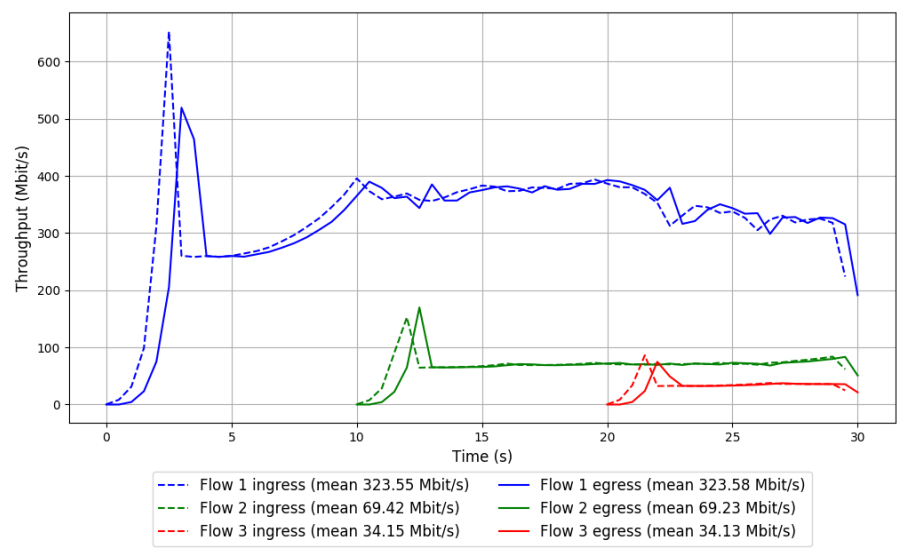


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-03 11:24:02  
End at: 2019-01-03 11:24:32  
Local clock offset: 2.369 ms  
Remote clock offset: -41.577 ms

# Below is generated by plot.py at 2019-01-03 13:34:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 380.52 Mbit/s  
95th percentile per-packet one-way delay: 143.904 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 323.58 Mbit/s  
95th percentile per-packet one-way delay: 148.163 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 69.23 Mbit/s  
95th percentile per-packet one-way delay: 142.455 ms  
Loss rate: 1.25%  
-- Flow 3:  
Average throughput: 34.13 Mbit/s  
95th percentile per-packet one-way delay: 142.459 ms  
Loss rate: 2.03%

Run 3: Report of PCC-Allegro — Data Link



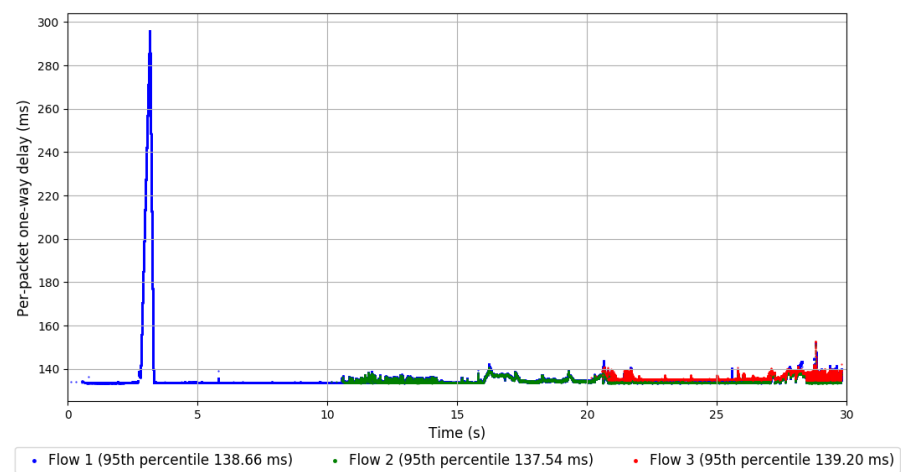
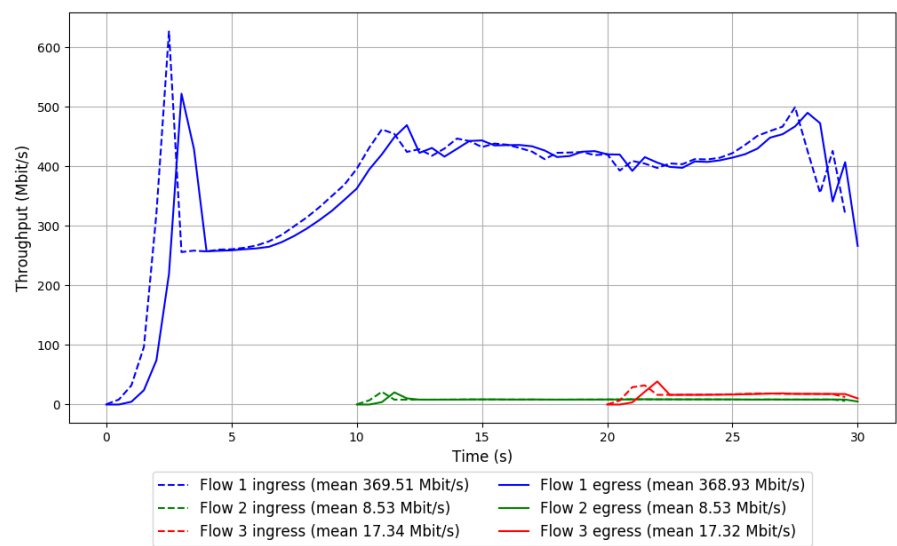


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-03 12:12:50  
End at: 2019-01-03 12:13:20  
Local clock offset: 1.017 ms  
Remote clock offset: -39.643 ms

# Below is generated by plot.py at 2019-01-03 13:34:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 380.18 Mbit/s  
95th percentile per-packet one-way delay: 138.656 ms  
Loss rate: 0.83%  
-- Flow 1:  
Average throughput: 368.93 Mbit/s  
95th percentile per-packet one-way delay: 138.662 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 137.545 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 17.32 Mbit/s  
95th percentile per-packet one-way delay: 139.203 ms  
Loss rate: 2.05%

Run 4: Report of PCC-Allegro — Data Link

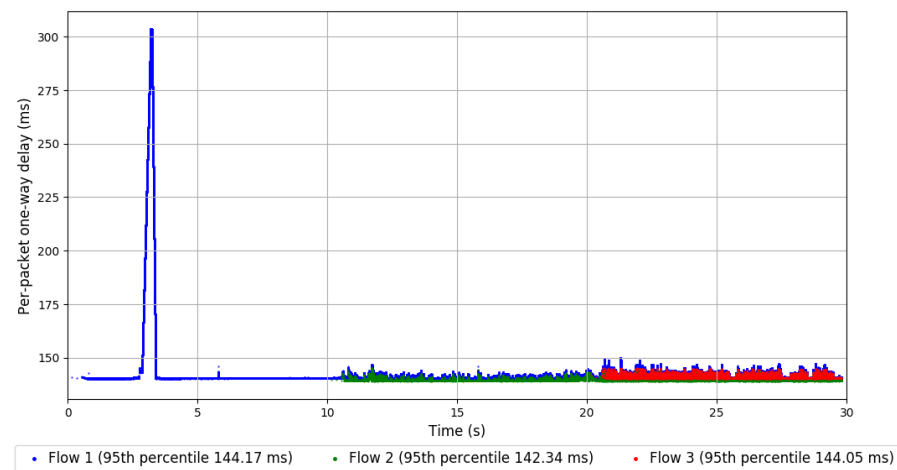
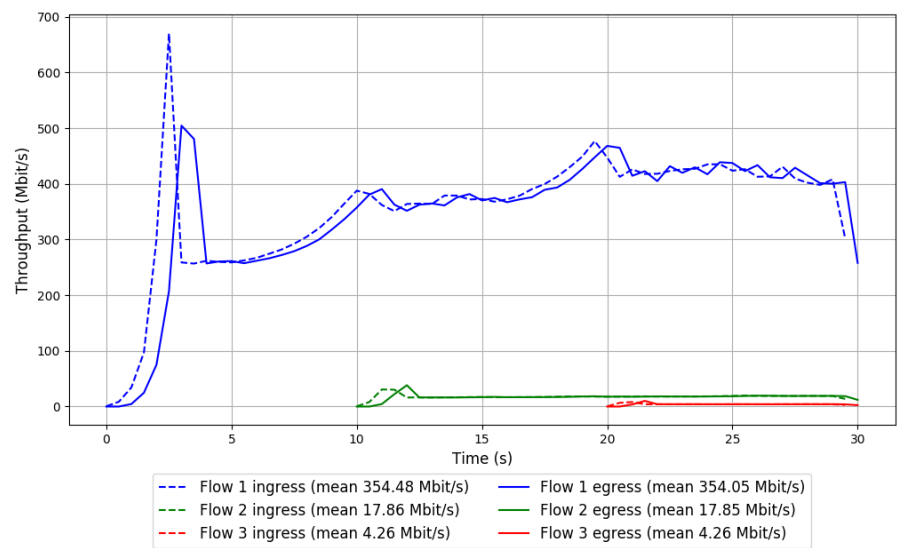


Run 5: Statistics of PCC-Allegro

Start at: 2019-01-03 12:52:16  
End at: 2019-01-03 12:52:46  
Local clock offset: 0.487 ms  
Remote clock offset: -45.766 ms

# Below is generated by plot.py at 2019-01-03 13:34:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 367.25 Mbit/s  
95th percentile per-packet one-way delay: 144.080 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 354.05 Mbit/s  
95th percentile per-packet one-way delay: 144.170 ms  
Loss rate: 0.77%  
-- Flow 2:  
Average throughput: 17.85 Mbit/s  
95th percentile per-packet one-way delay: 142.345 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 4.26 Mbit/s  
95th percentile per-packet one-way delay: 144.049 ms  
Loss rate: 1.92%

Run 5: Report of PCC-Allegro — Data Link

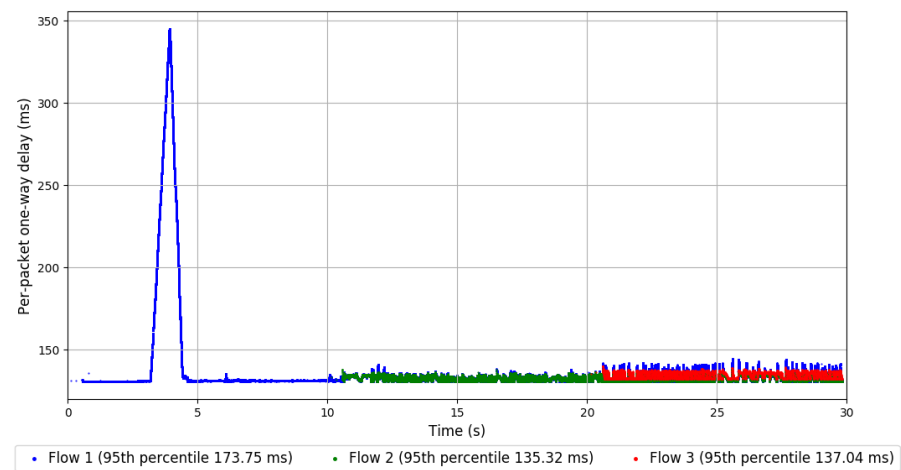
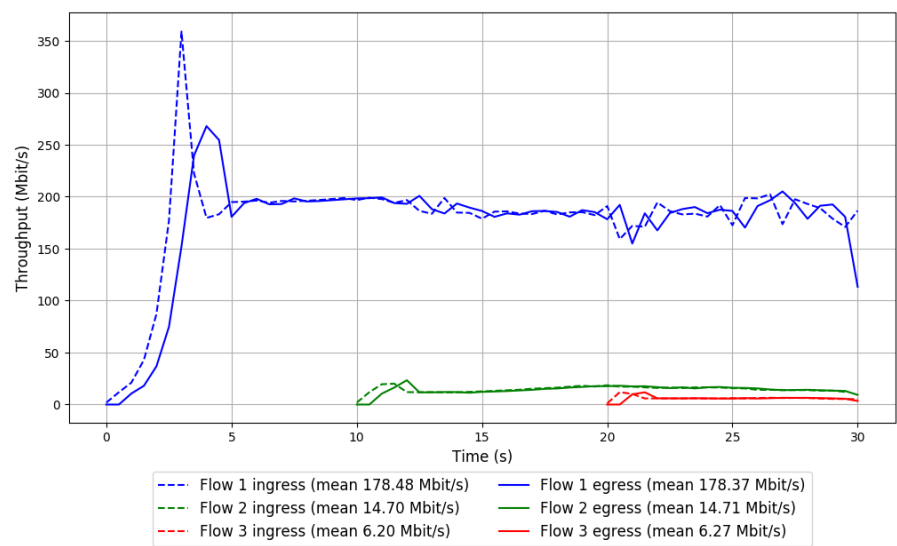


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-03 09:46:28
End at: 2019-01-03 09:46:58
Local clock offset: -0.405 ms
Remote clock offset: -38.566 ms

# Below is generated by plot.py at 2019-01-03 13:34:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 190.16 Mbit/s
95th percentile per-packet one-way delay: 162.790 ms
Loss rate: 2.66%
-- Flow 1:
Average throughput: 178.37 Mbit/s
95th percentile per-packet one-way delay: 173.748 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 14.71 Mbit/s
95th percentile per-packet one-way delay: 135.322 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 6.27 Mbit/s
95th percentile per-packet one-way delay: 137.041 ms
Loss rate: 6.60%
```

Run 1: Report of PCC-Expr — Data Link

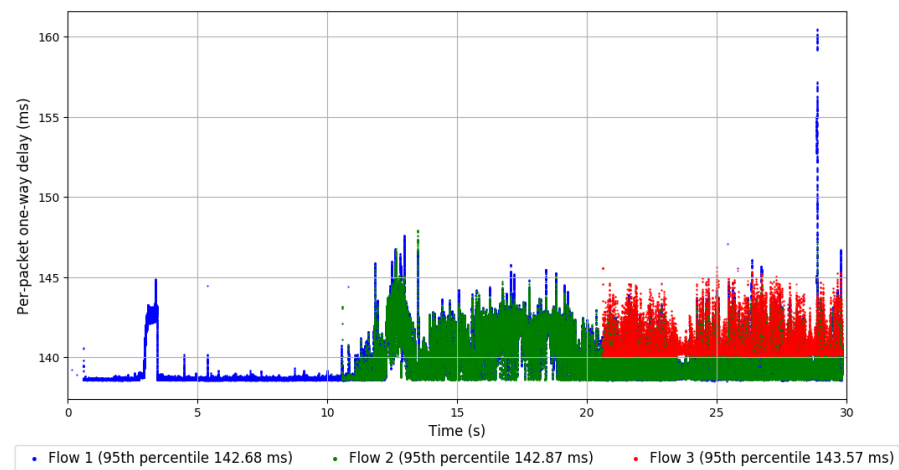
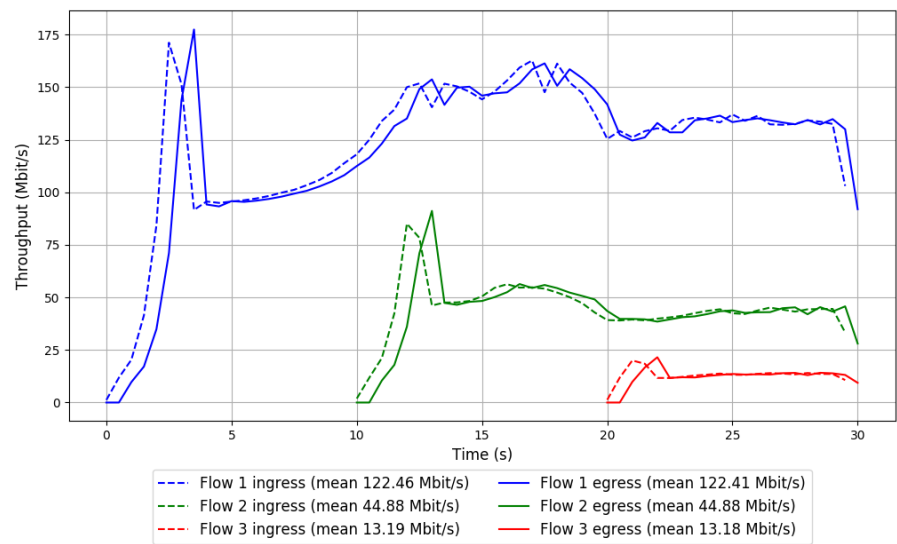


Run 2: Statistics of PCC-Expr

Start at: 2019-01-03 10:30:07  
End at: 2019-01-03 10:30:37  
Local clock offset: -1.11 ms  
Remote clock offset: -46.924 ms

# Below is generated by plot.py at 2019-01-03 13:34:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 156.45 Mbit/s  
95th percentile per-packet one-way delay: 142.743 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 122.41 Mbit/s  
95th percentile per-packet one-way delay: 142.679 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 44.88 Mbit/s  
95th percentile per-packet one-way delay: 142.870 ms  
Loss rate: 0.96%  
-- Flow 3:  
Average throughput: 13.18 Mbit/s  
95th percentile per-packet one-way delay: 143.570 ms  
Loss rate: 2.09%

Run 2: Report of PCC-Expr — Data Link





Run 3: Statistics of PCC-Expr

Start at: 2019-01-03 11:10:14  
End at: 2019-01-03 11:10:44  
Local clock offset: 1.617 ms  
Remote clock offset: -45.282 ms

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

Figure is missing

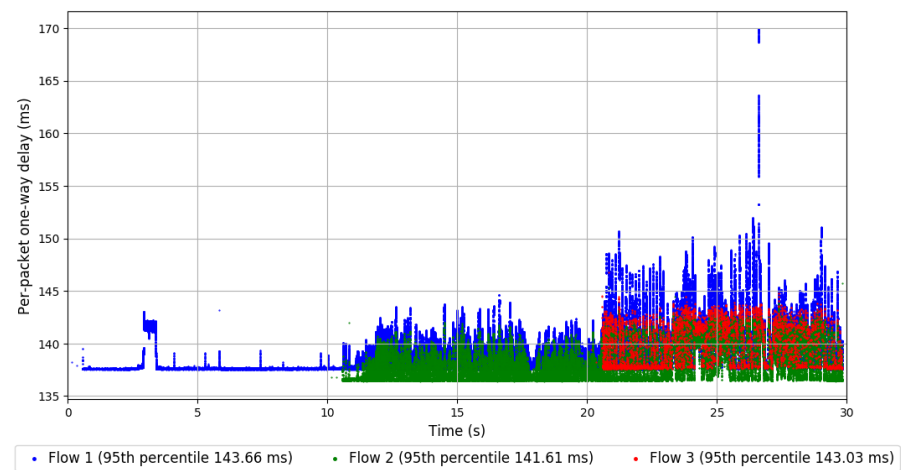
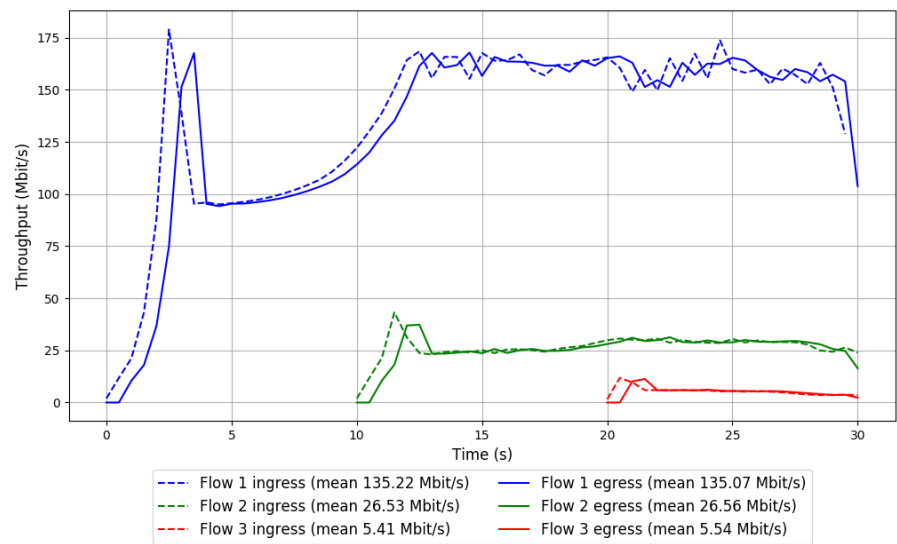
Figure is missing

Run 4: Statistics of PCC-Expr

Start at: 2019-01-03 12:08:27  
End at: 2019-01-03 12:08:57  
Local clock offset: 1.866 ms  
Remote clock offset: -41.713 ms

# Below is generated by plot.py at 2019-01-03 13:34:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 154.46 Mbit/s  
95th percentile per-packet one-way delay: 143.349 ms  
Loss rate: 1.26%  
-- Flow 1:  
Average throughput: 135.07 Mbit/s  
95th percentile per-packet one-way delay: 143.664 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 26.56 Mbit/s  
95th percentile per-packet one-way delay: 141.610 ms  
Loss rate: 3.74%  
-- Flow 3:  
Average throughput: 5.54 Mbit/s  
95th percentile per-packet one-way delay: 143.032 ms  
Loss rate: 5.31%

Run 4: Report of PCC-Expr — Data Link

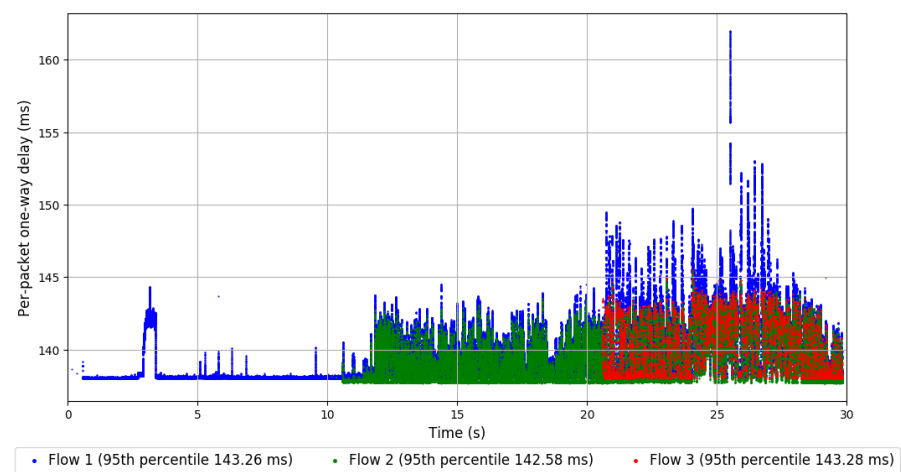
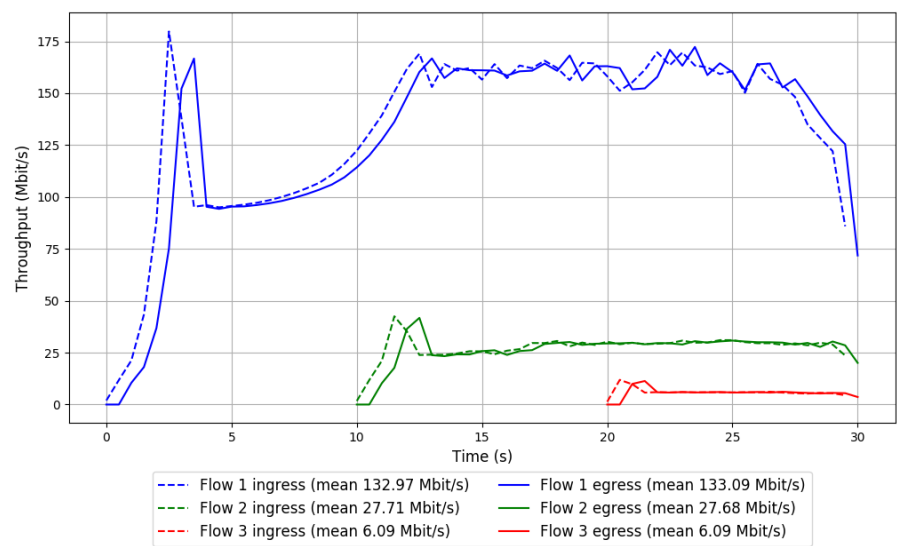


Run 5: Statistics of PCC-Expr

Start at: 2019-01-03 12:47:54  
End at: 2019-01-03 12:48:24  
Local clock offset: 0.378 ms  
Remote clock offset: -43.247 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 153.42 Mbit/s  
95th percentile per-packet one-way delay: 143.128 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 133.09 Mbit/s  
95th percentile per-packet one-way delay: 143.257 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 27.68 Mbit/s  
95th percentile per-packet one-way delay: 142.581 ms  
Loss rate: 1.09%  
-- Flow 3:  
Average throughput: 6.09 Mbit/s  
95th percentile per-packet one-way delay: 143.276 ms  
Loss rate: 1.96%

Run 5: Report of PCC-Expr — Data Link

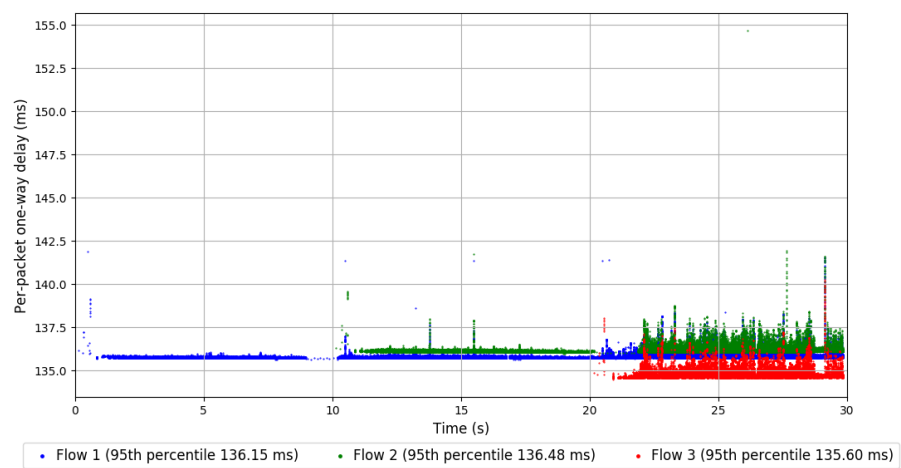
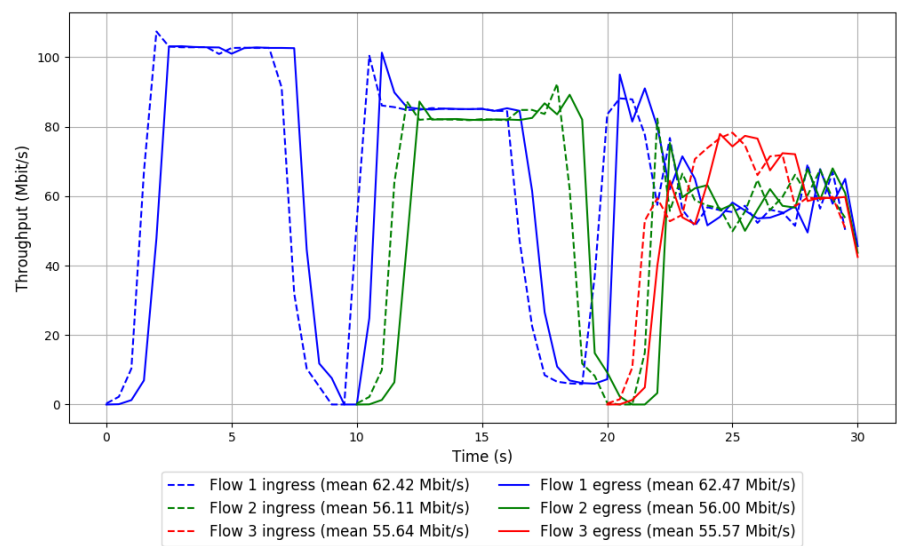


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-03 09:58:02  
End at: 2019-01-03 09:58:32  
Local clock offset: 2.086 ms  
Remote clock offset: -40.052 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 117.74 Mbit/s  
95th percentile per-packet one-way delay: 136.265 ms  
Loss rate: 1.03%  
-- Flow 1:  
Average throughput: 62.47 Mbit/s  
95th percentile per-packet one-way delay: 136.150 ms  
Loss rate: 0.61%  
-- Flow 2:  
Average throughput: 56.00 Mbit/s  
95th percentile per-packet one-way delay: 136.483 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 55.57 Mbit/s  
95th percentile per-packet one-way delay: 135.601 ms  
Loss rate: 2.18%

Run 1: Report of QUIC Cubic — Data Link



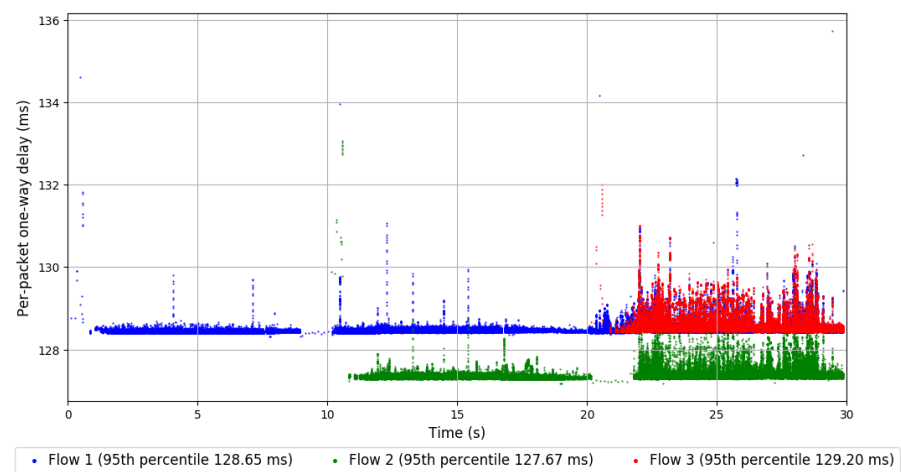
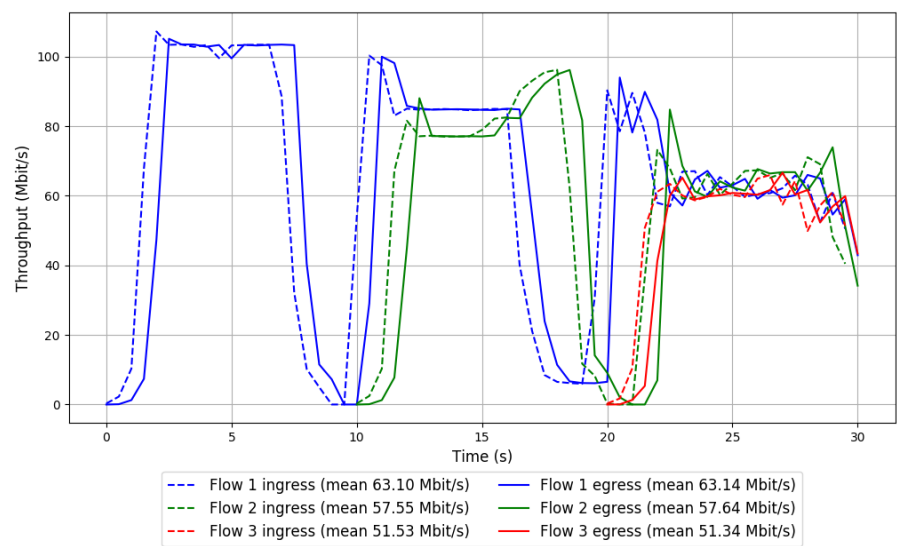


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-03 10:41:31  
End at: 2019-01-03 10:42:01  
Local clock offset: -3.066 ms  
Remote clock offset: -37.433 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 118.13 Mbit/s  
95th percentile per-packet one-way delay: 128.732 ms  
Loss rate: 0.93%  
-- Flow 1:  
Average throughput: 63.14 Mbit/s  
95th percentile per-packet one-way delay: 128.648 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 57.64 Mbit/s  
95th percentile per-packet one-way delay: 127.673 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 51.34 Mbit/s  
95th percentile per-packet one-way delay: 129.204 ms  
Loss rate: 2.33%

Run 2: Report of QUIC Cubic — Data Link

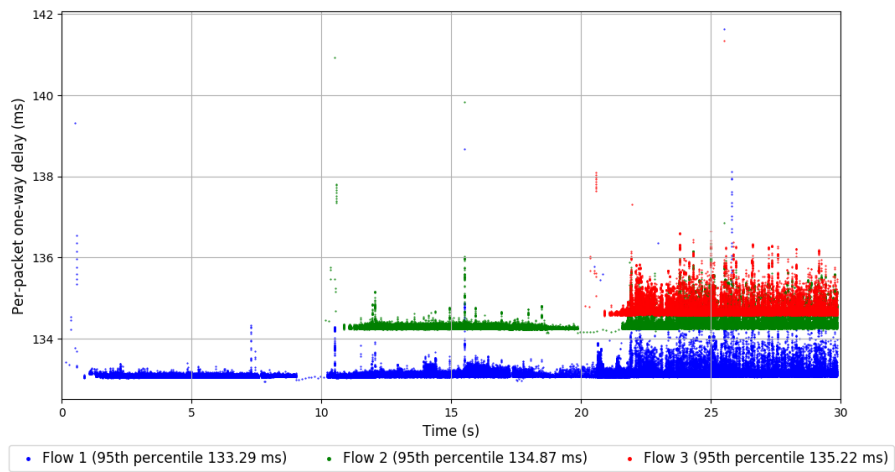
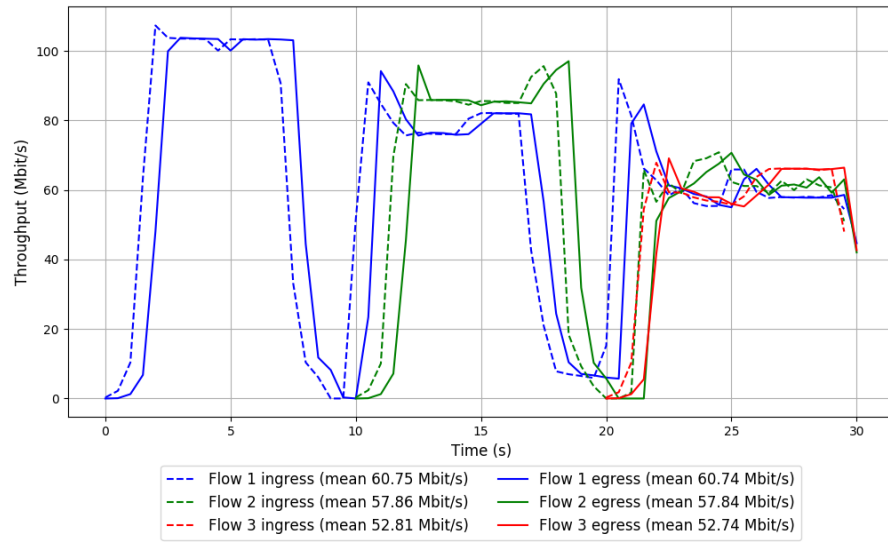


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-03 11:25:34  
End at: 2019-01-03 11:26:04  
Local clock offset: -0.171 ms  
Remote clock offset: -40.197 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 116.34 Mbit/s  
95th percentile per-packet one-way delay: 134.797 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 60.74 Mbit/s  
95th percentile per-packet one-way delay: 133.293 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 57.84 Mbit/s  
95th percentile per-packet one-way delay: 134.865 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 52.74 Mbit/s  
95th percentile per-packet one-way delay: 135.223 ms  
Loss rate: 2.17%

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



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-03 12:14:21

End at: 2019-01-03 12:14:51

Local clock offset: -0.737 ms

Remote clock offset: -43.5 ms

# Below is generated by plot.py at 2019-01-03 13:36:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 116.30 Mbit/s

95th percentile per-packet one-way delay: 137.109 ms

Loss rate: 1.01%

-- Flow 1:

Average throughput: 62.78 Mbit/s

95th percentile per-packet one-way delay: 137.132 ms

Loss rate: 0.74%

-- Flow 2:

Average throughput: 54.72 Mbit/s

95th percentile per-packet one-way delay: 137.192 ms

Loss rate: 1.00%

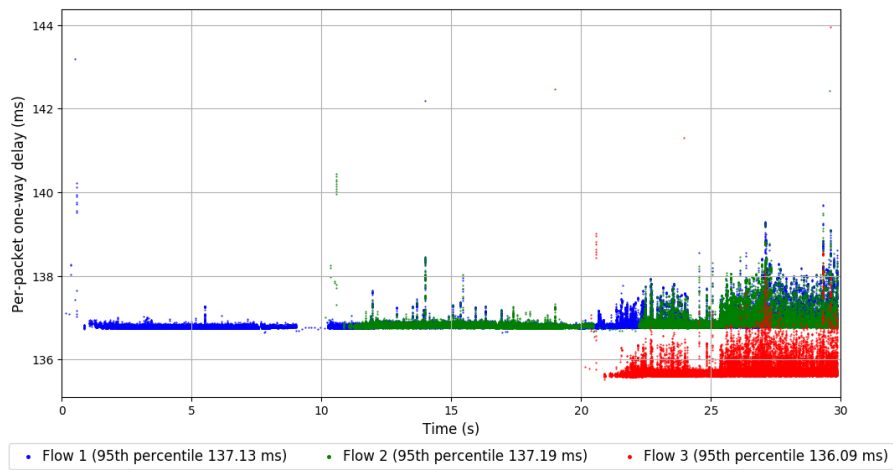
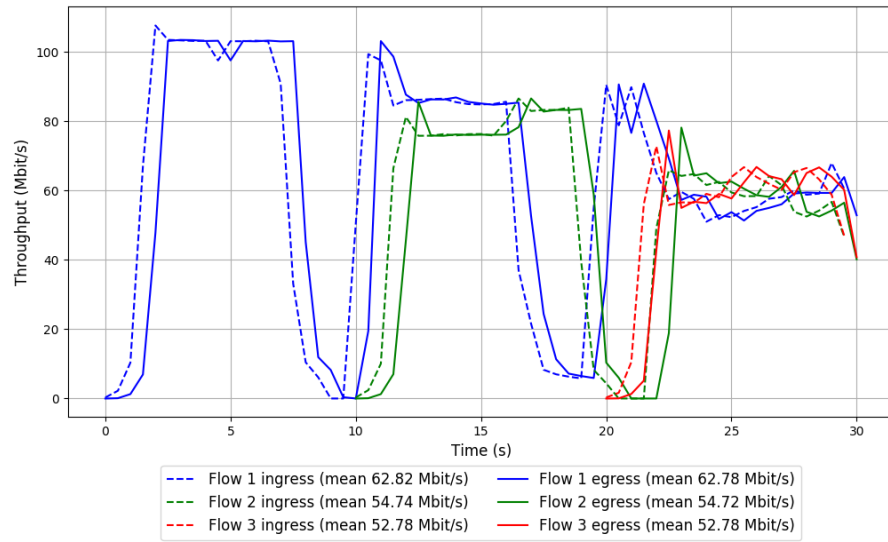
-- Flow 3:

Average throughput: 52.78 Mbit/s

95th percentile per-packet one-way delay: 136.089 ms

Loss rate: 2.05%

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

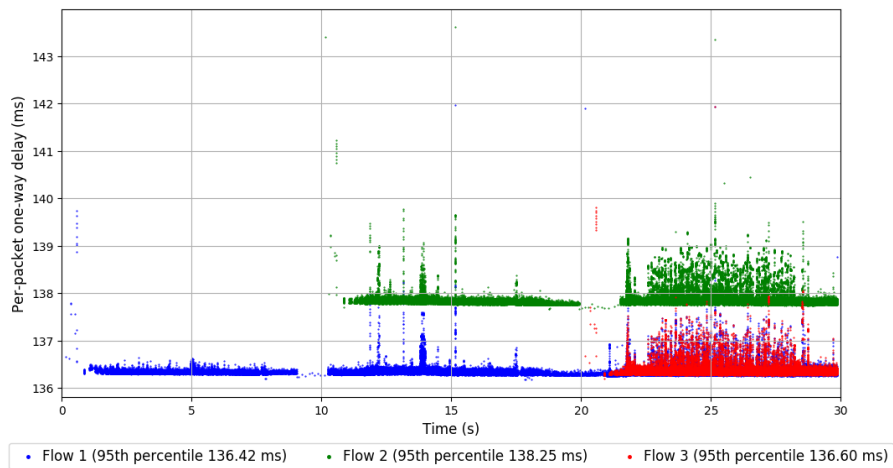
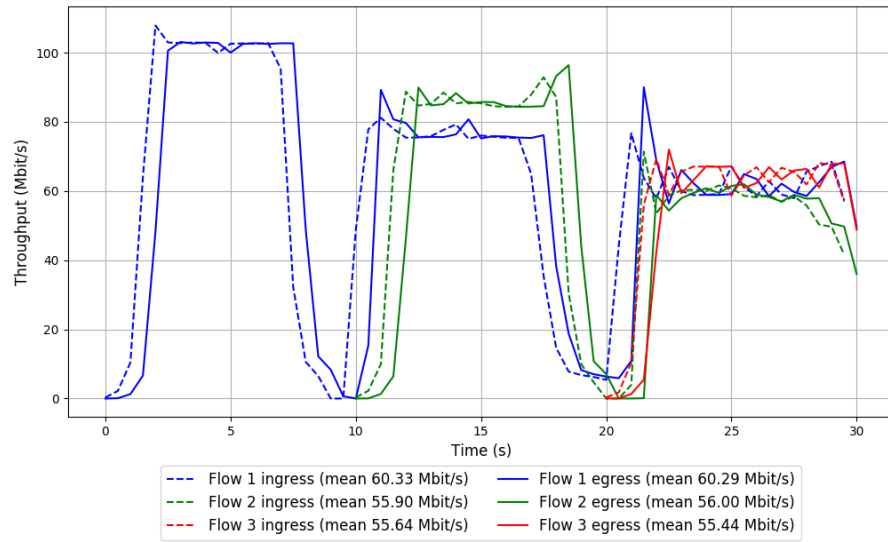


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-03 12:53:47  
End at: 2019-01-03 12:54:17  
Local clock offset: 0.129 ms  
Remote clock offset: -43.395 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 115.53 Mbit/s  
95th percentile per-packet one-way delay: 137.903 ms  
Loss rate: 1.04%  
-- Flow 1:  
Average throughput: 60.29 Mbit/s  
95th percentile per-packet one-way delay: 136.418 ms  
Loss rate: 0.73%  
-- Flow 2:  
Average throughput: 56.00 Mbit/s  
95th percentile per-packet one-way delay: 138.250 ms  
Loss rate: 0.87%  
-- Flow 3:  
Average throughput: 55.44 Mbit/s  
95th percentile per-packet one-way delay: 136.600 ms  
Loss rate: 2.38%

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



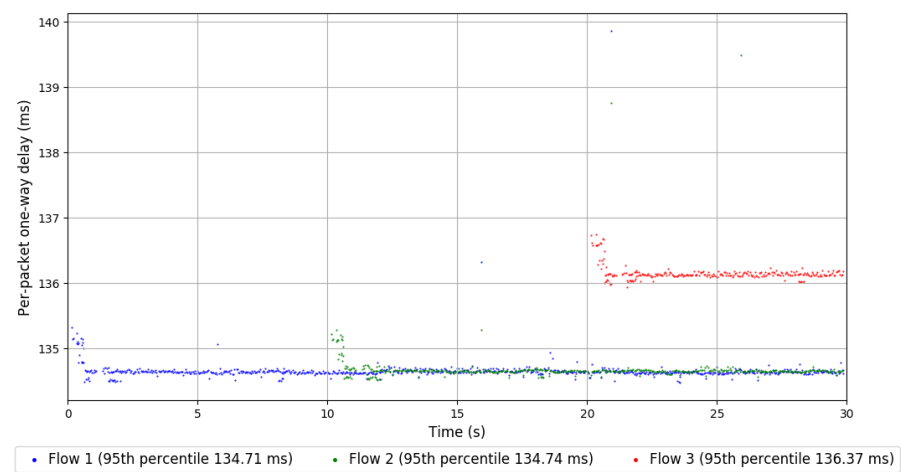
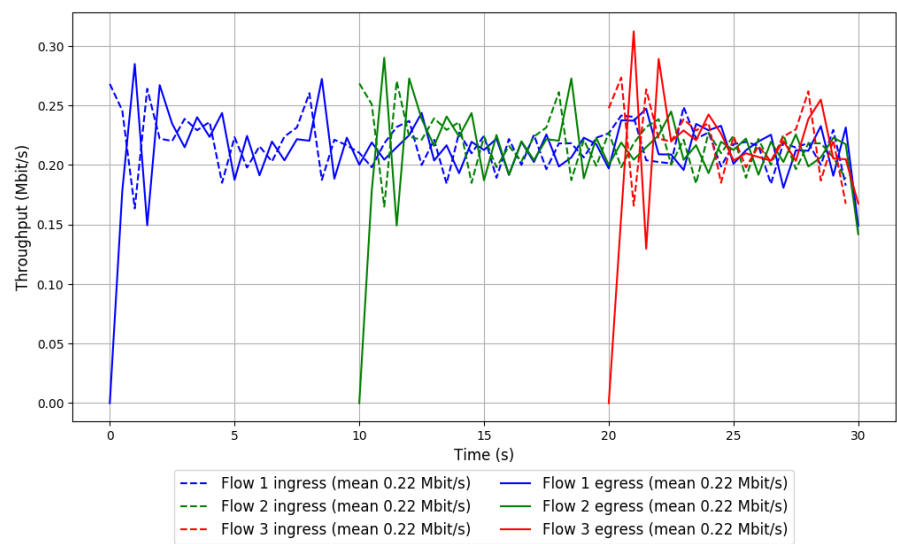


Run 1: Statistics of SReAM

Start at: 2019-01-03 10:19:43  
End at: 2019-01-03 10:20:13  
Local clock offset: 0.699 ms  
Remote clock offset: -41.873 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 136.159 ms  
Loss rate: 0.91%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.713 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 134.735 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 136.369 ms  
Loss rate: 1.49%

Run 1: Report of SReAM — Data Link

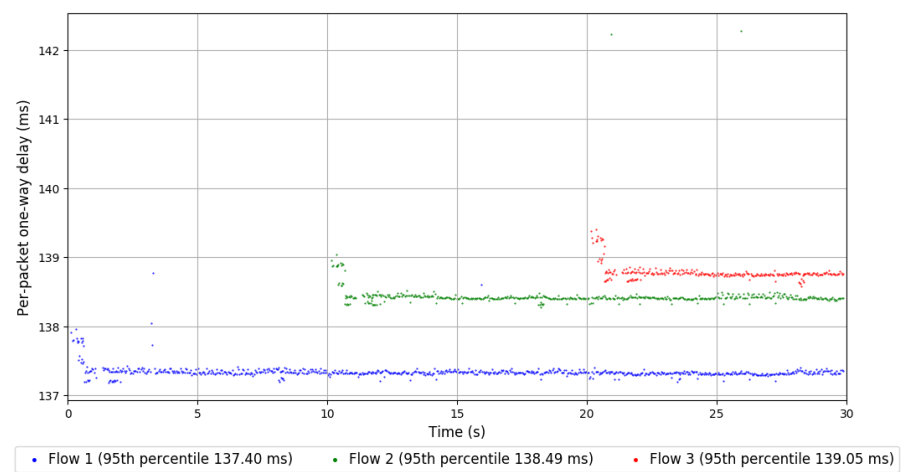
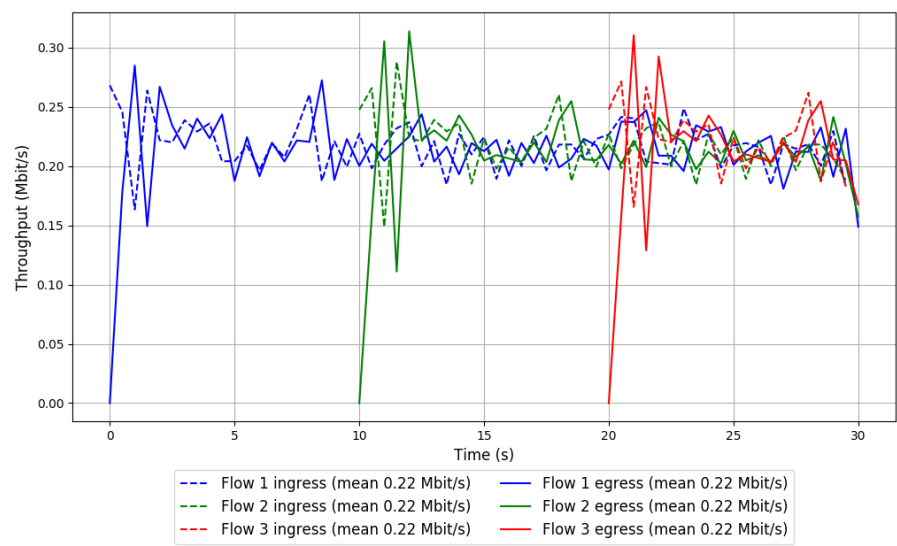


Run 2: Statistics of SReAM

Start at: 2019-01-03 10:59:19  
End at: 2019-01-03 10:59:49  
Local clock offset: 2.045 ms  
Remote clock offset: -42.335 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 138.784 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 137.397 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 138.491 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 139.051 ms  
Loss rate: 1.83%

Run 2: Report of SReAM — Data Link

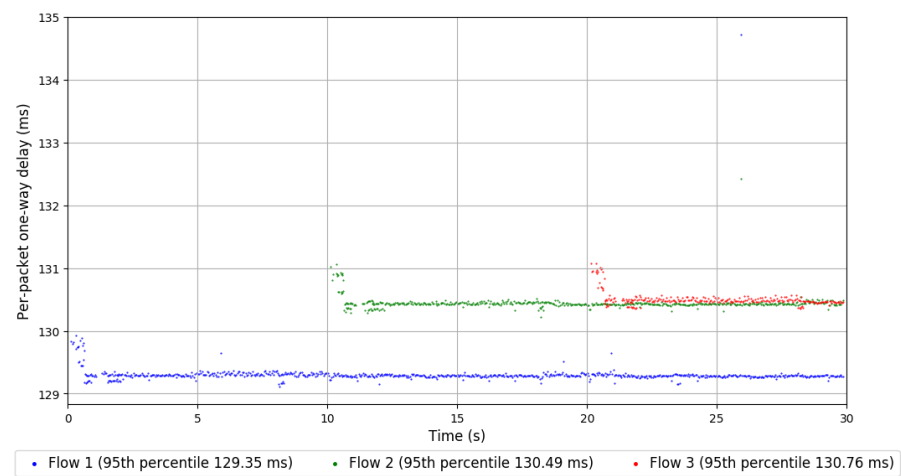
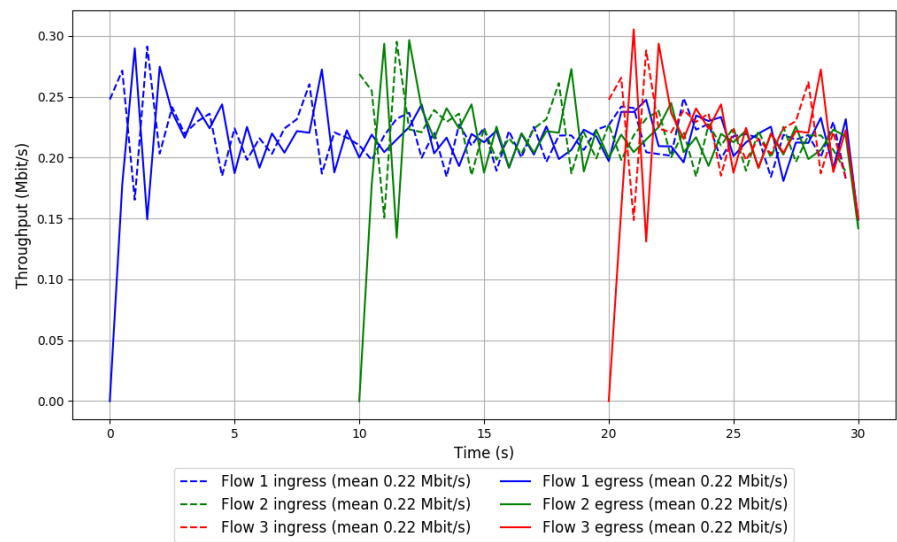


Run 3: Statistics of SReAM

Start at: 2019-01-03 11:52:52  
End at: 2019-01-03 11:53:22  
Local clock offset: 0.449 ms  
Remote clock offset: -35.511 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 130.521 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 129.350 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 130.494 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 130.761 ms  
Loss rate: 1.83%

Run 3: Report of SReAM — Data Link

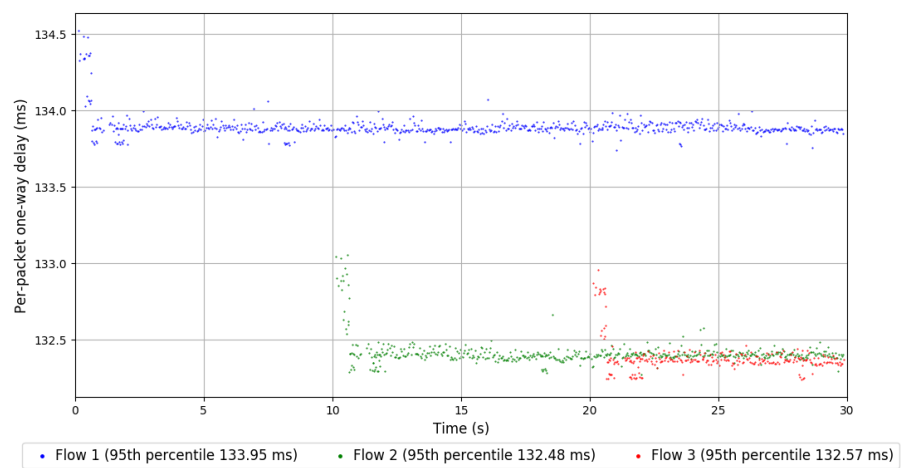
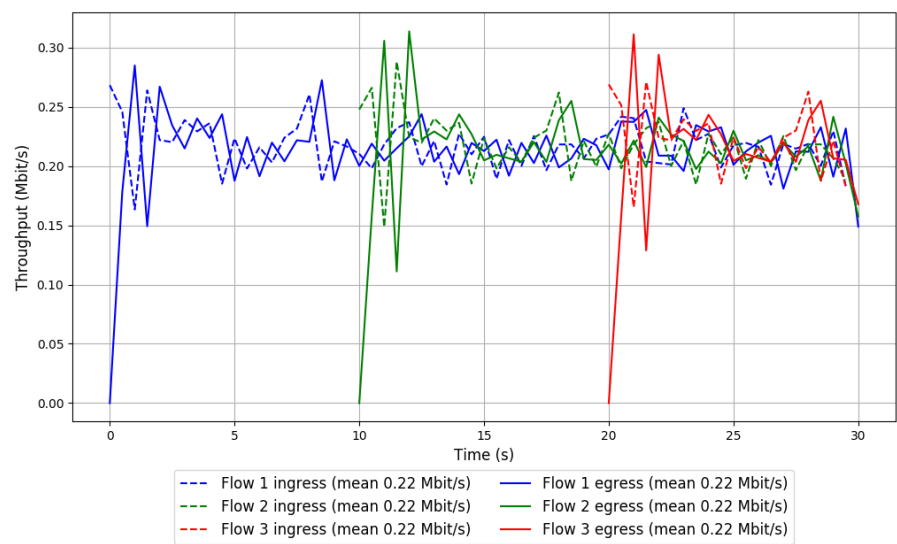


Run 4: Statistics of SReAM

Start at: 2019-01-03 12:37:38  
End at: 2019-01-03 12:38:08  
Local clock offset: 0.431 ms  
Remote clock offset: -39.02 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 133.925 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 133.949 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 132.482 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 132.575 ms  
Loss rate: 1.83%

Run 4: Report of SCReAM — Data Link



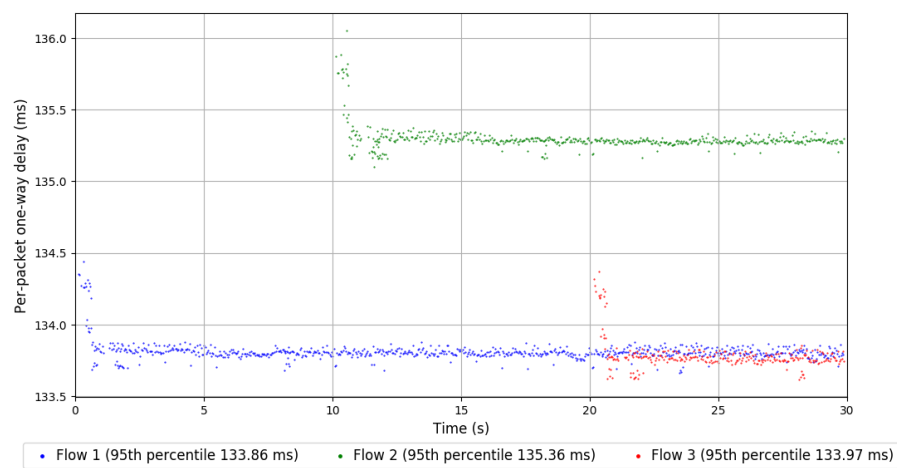
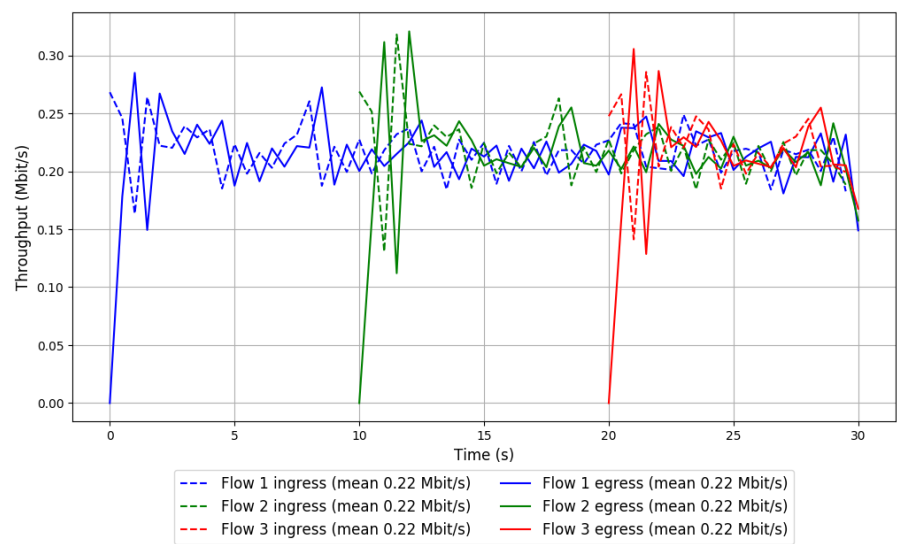


Run 5: Statistics of SReAM

Start at: 2019-01-03 13:05:48  
End at: 2019-01-03 13:06:18  
Local clock offset: 1.85 ms  
Remote clock offset: -39.847 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 135.318 ms  
Loss rate: 0.97%  
-- Flow 1:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 133.864 ms  
Loss rate: 0.64%  
-- Flow 2:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 135.358 ms  
Loss rate: 1.03%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 133.970 ms  
Loss rate: 1.84%

Run 5: Report of SCReAM — Data Link

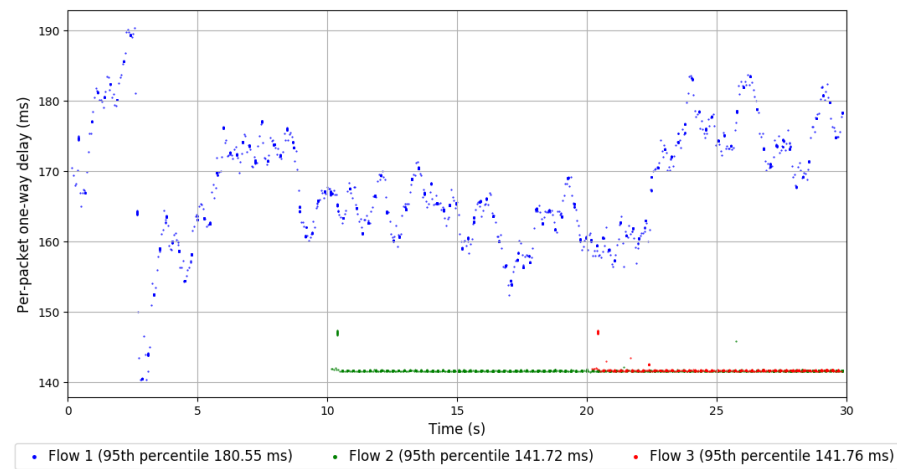
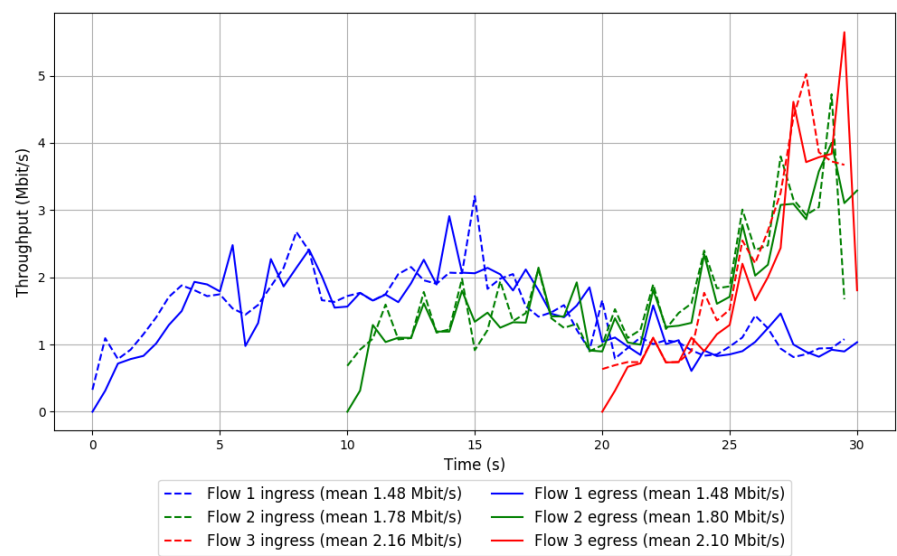


Run 1: Statistics of Sprout

Start at: 2019-01-03 09:42:09  
End at: 2019-01-03 09:42:39  
Local clock offset: 2.02 ms  
Remote clock offset: -46.123 ms

# Below is generated by plot.py at 2019-01-03 13:36:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.35 Mbit/s  
95th percentile per-packet one-way delay: 177.013 ms  
Loss rate: 1.20%  
-- Flow 1:  
Average throughput: 1.48 Mbit/s  
95th percentile per-packet one-way delay: 180.553 ms  
Loss rate: 0.62%  
-- Flow 2:  
Average throughput: 1.80 Mbit/s  
95th percentile per-packet one-way delay: 141.721 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 2.10 Mbit/s  
95th percentile per-packet one-way delay: 141.756 ms  
Loss rate: 4.42%

Run 1: Report of Sprout — Data Link

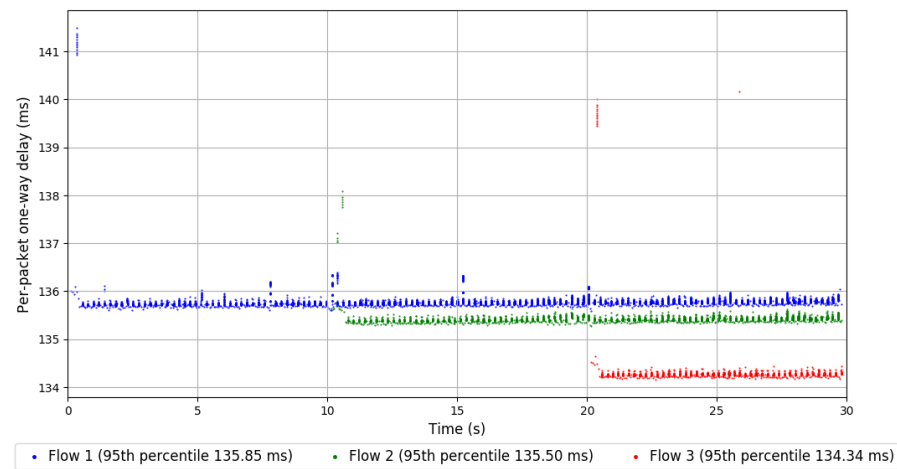
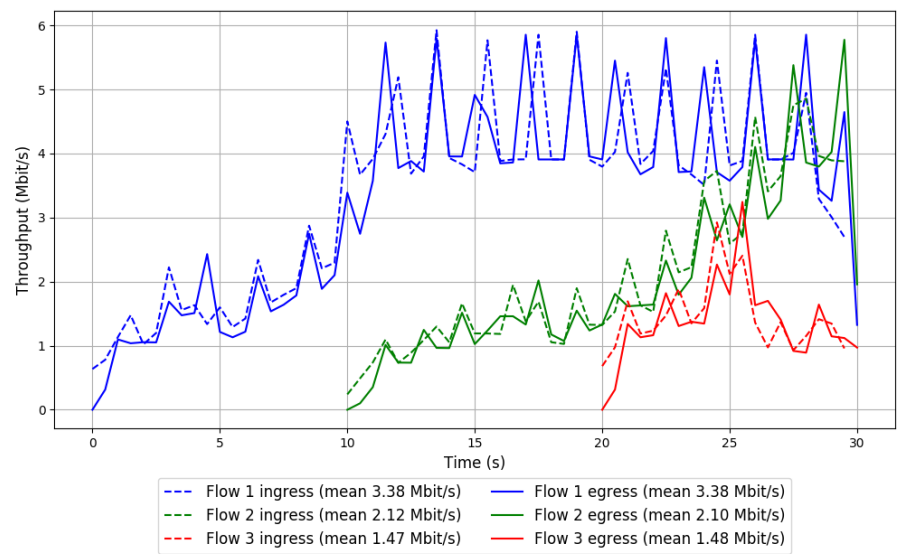


## Run 2: Statistics of Sprout

Start at: 2019-01-03 10:25:52  
End at: 2019-01-03 10:26:22  
Local clock offset: 0.392 ms  
Remote clock offset: -41.401 ms

```
# Below is generated by plot.py at 2019-01-03 13:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.25 Mbit/s
95th percentile per-packet one-way delay: 135.828 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 3.38 Mbit/s
95th percentile per-packet one-way delay: 135.851 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 2.10 Mbit/s
95th percentile per-packet one-way delay: 135.495 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 134.344 ms
Loss rate: 1.67%
```

Run 2: Report of Sprout — Data Link

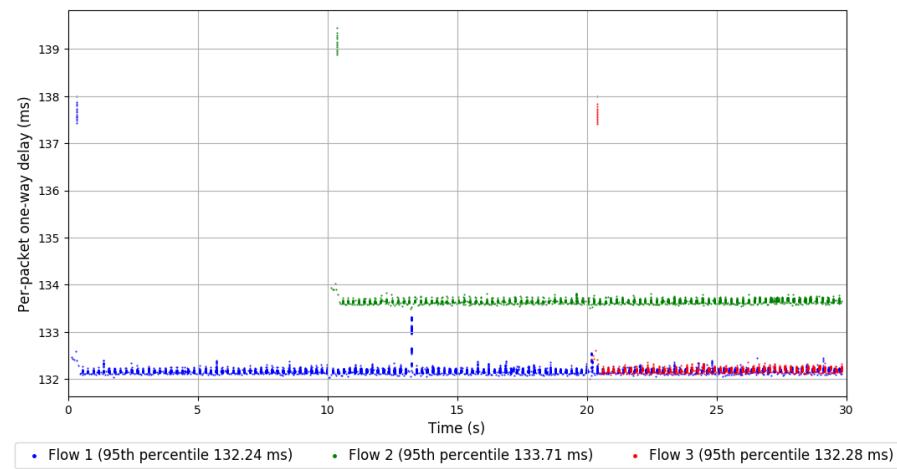
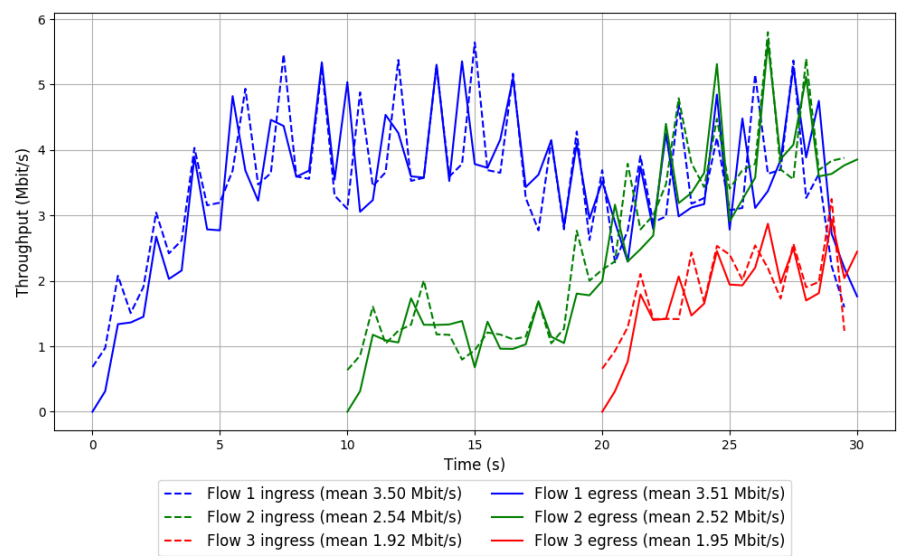


### Run 3: Statistics of Sprout

Start at: 2019-01-03 11:05:46  
End at: 2019-01-03 11:06:16  
Local clock offset: 0.217 ms  
Remote clock offset: -39.096 ms

```
# Below is generated by plot.py at 2019-01-03 13:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.82 Mbit/s
95th percentile per-packet one-way delay: 133.680 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 132.236 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 133.712 ms
Loss rate: 1.93%
-- Flow 3:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 132.276 ms
Loss rate: 0.01%
```

Run 3: Report of Sprout — Data Link



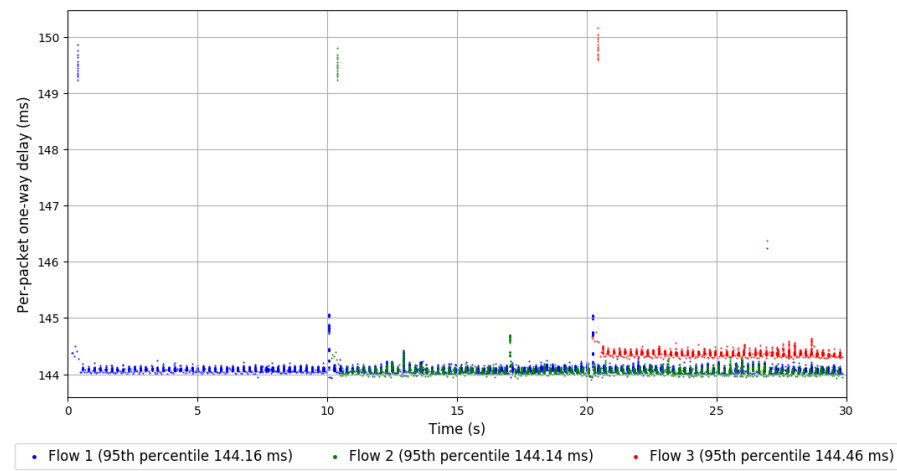
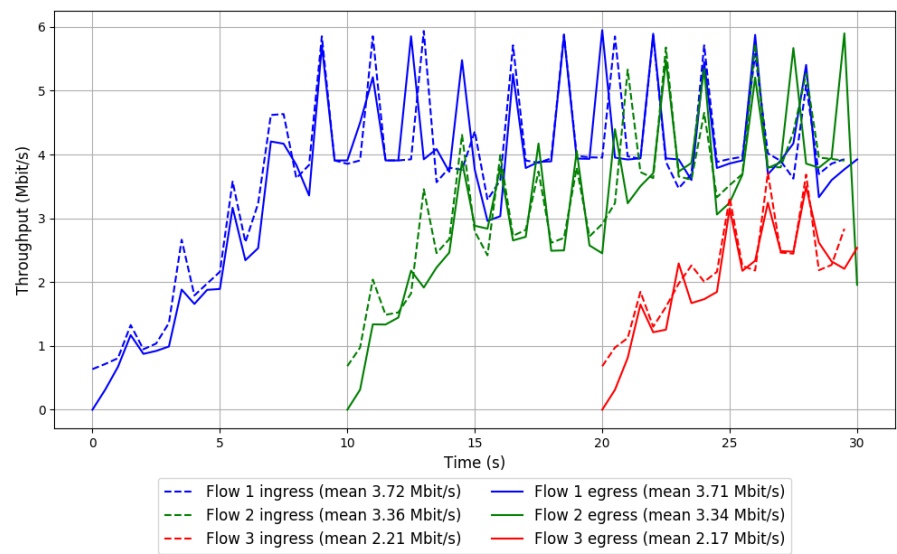


#### Run 4: Statistics of Sprout

Start at: 2019-01-03 11:58:52  
End at: 2019-01-03 11:59:22  
Local clock offset: 1.605 ms  
Remote clock offset: -48.193 ms

```
# Below is generated by plot.py at 2019-01-03 13:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.62 Mbit/s
95th percentile per-packet one-way delay: 144.379 ms
Loss rate: 1.34%
-- Flow 1:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 144.165 ms
Loss rate: 0.88%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 144.137 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 144.456 ms
Loss rate: 3.36%
```

Run 4: Report of Sprout — Data Link

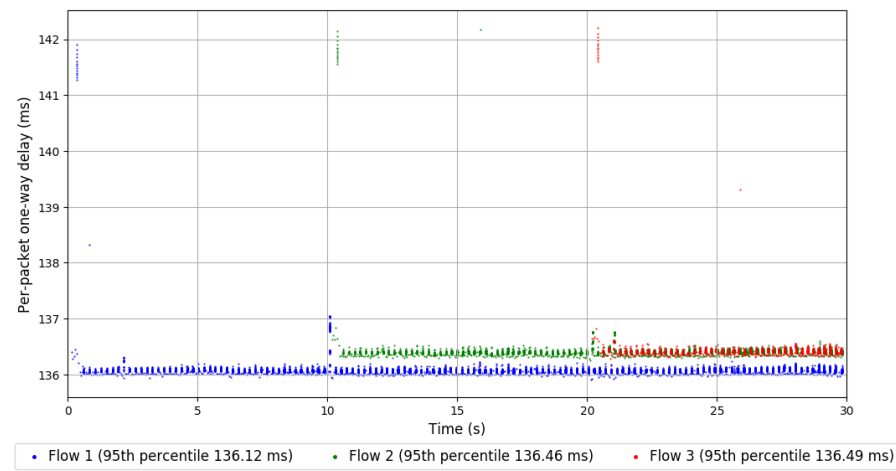
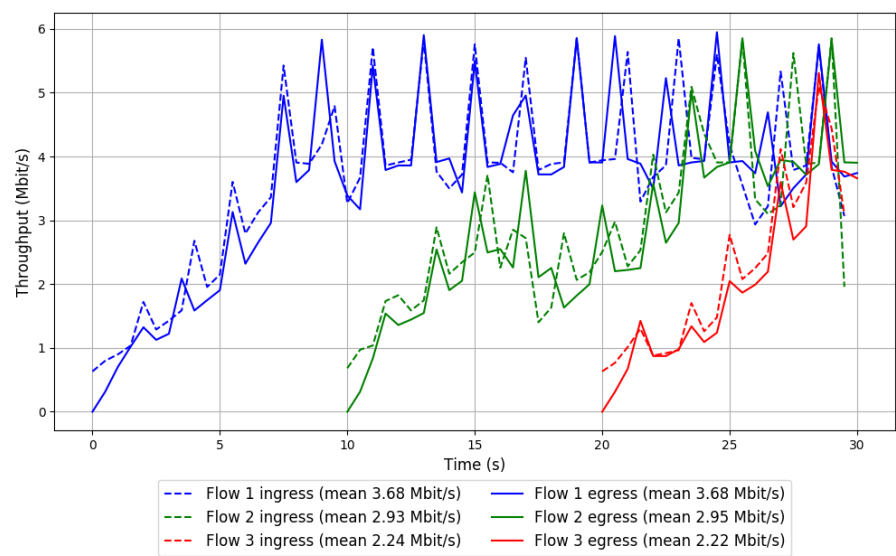


Run 5: Statistics of Sprout

Start at: 2019-01-03 12:43:38  
End at: 2019-01-03 12:44:08  
Local clock offset: 0.404 ms  
Remote clock offset: -41.551 ms

```
# Below is generated by plot.py at 2019-01-03 13:36:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.35 Mbit/s
95th percentile per-packet one-way delay: 136.444 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 3.68 Mbit/s
95th percentile per-packet one-way delay: 136.121 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 136.457 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 136.489 ms
Loss rate: 3.22%
```

Run 5: Report of Sprout — Data Link

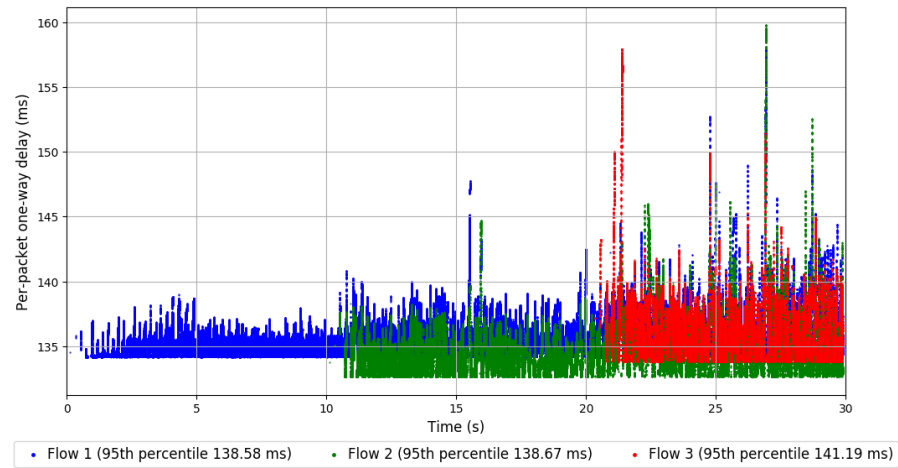
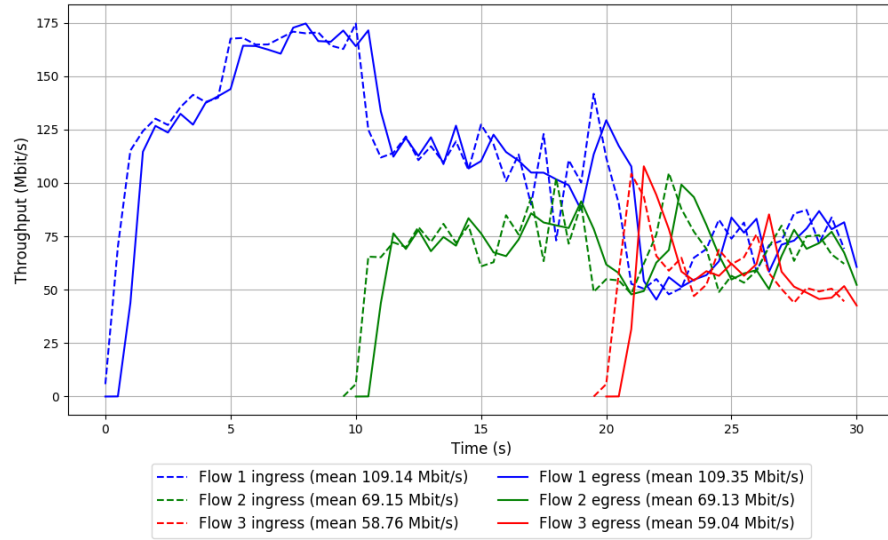


Run 1: Statistics of TaoVA-100x

Start at: 2019-01-03 10:12:09  
End at: 2019-01-03 10:12:39  
Local clock offset: 0.992 ms  
Remote clock offset: -39.698 ms

# Below is generated by plot.py at 2019-01-03 13:38:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 174.62 Mbit/s  
95th percentile per-packet one-way delay: 138.920 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 109.35 Mbit/s  
95th percentile per-packet one-way delay: 138.579 ms  
Loss rate: 0.45%  
-- Flow 2:  
Average throughput: 69.13 Mbit/s  
95th percentile per-packet one-way delay: 138.668 ms  
Loss rate: 1.00%  
-- Flow 3:  
Average throughput: 59.04 Mbit/s  
95th percentile per-packet one-way delay: 141.187 ms  
Loss rate: 1.58%

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

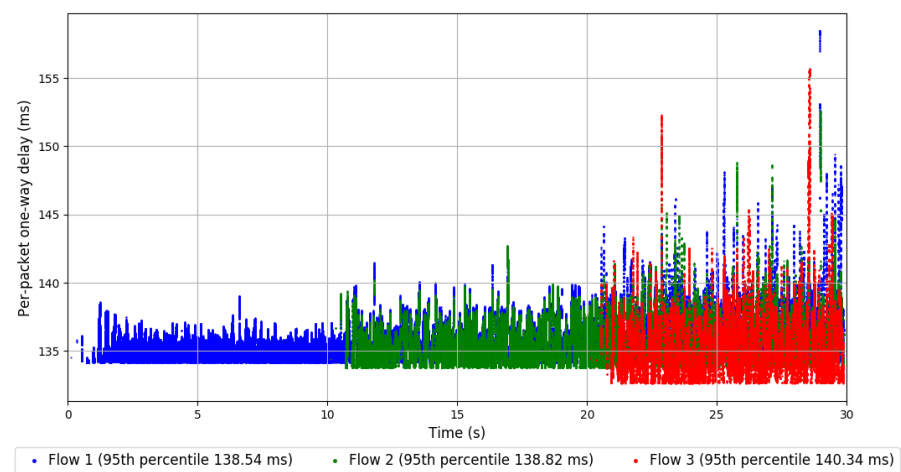
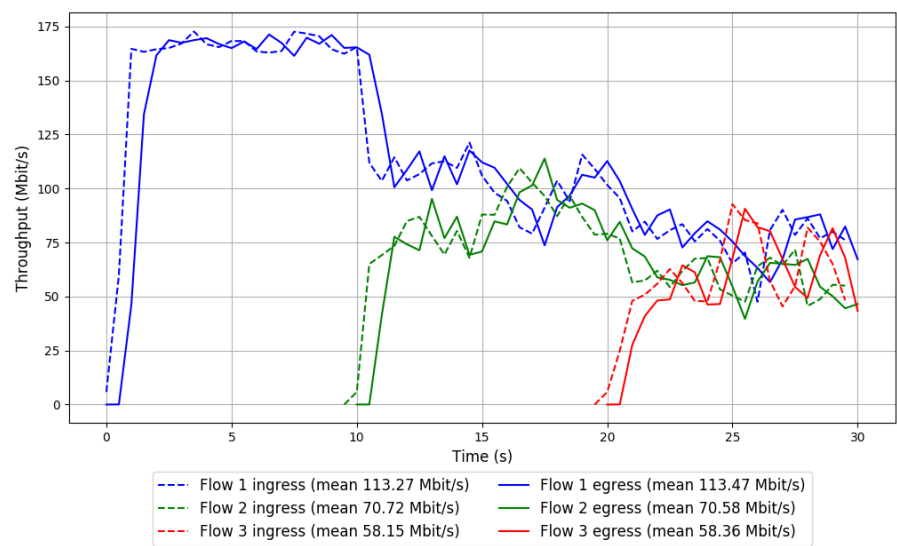


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-03 10:51:44  
End at: 2019-01-03 10:52:14  
Local clock offset: -0.536 ms  
Remote clock offset: -40.132 ms

# Below is generated by plot.py at 2019-01-03 13:38:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 179.48 Mbit/s  
95th percentile per-packet one-way delay: 138.783 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 113.47 Mbit/s  
95th percentile per-packet one-way delay: 138.544 ms  
Loss rate: 0.47%  
-- Flow 2:  
Average throughput: 70.58 Mbit/s  
95th percentile per-packet one-way delay: 138.820 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 58.36 Mbit/s  
95th percentile per-packet one-way delay: 140.340 ms  
Loss rate: 1.65%

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



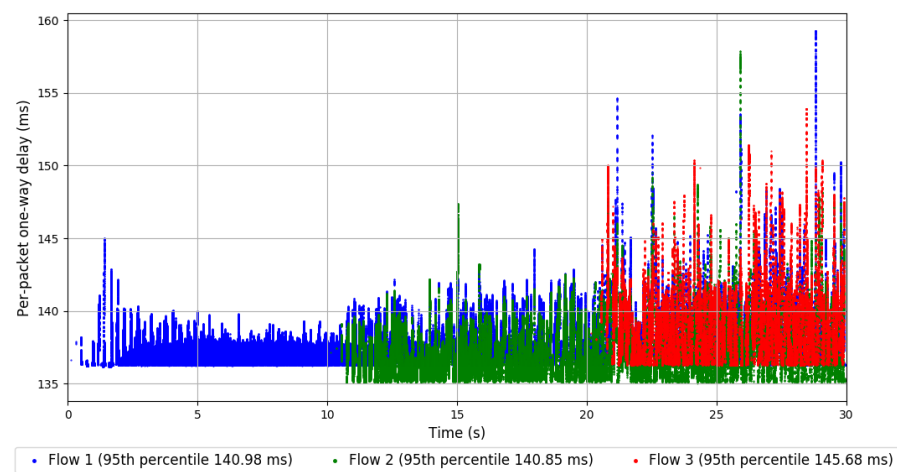
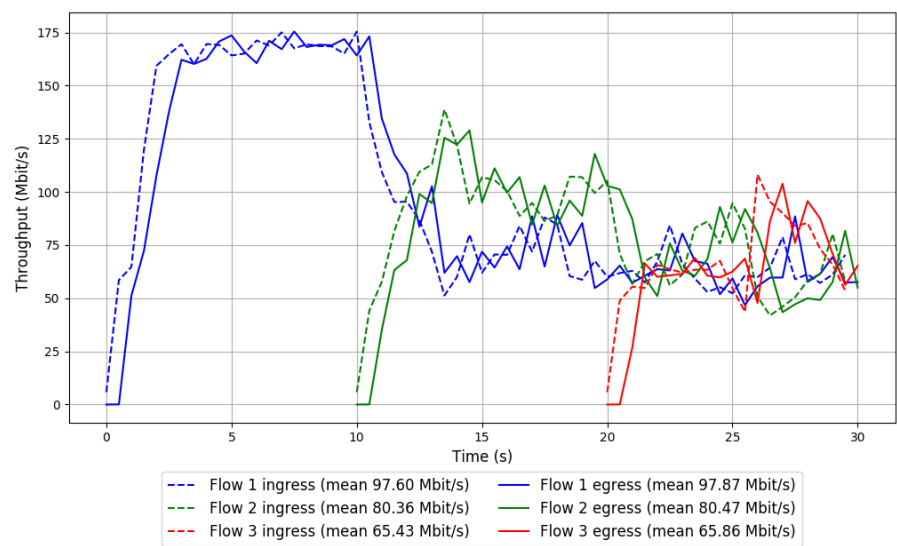


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-03 11:30:06  
End at: 2019-01-03 11:30:36  
Local clock offset: -1.432 ms  
Remote clock offset: -43.321 ms

# Below is generated by plot.py at 2019-01-03 13:38:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 172.88 Mbit/s  
95th percentile per-packet one-way delay: 141.661 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 97.87 Mbit/s  
95th percentile per-packet one-way delay: 140.977 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 80.47 Mbit/s  
95th percentile per-packet one-way delay: 140.847 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 65.86 Mbit/s  
95th percentile per-packet one-way delay: 145.677 ms  
Loss rate: 1.46%

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

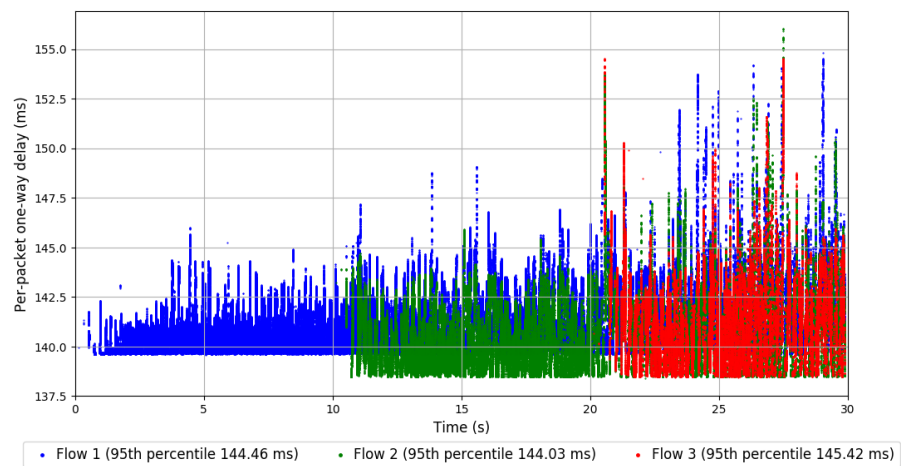
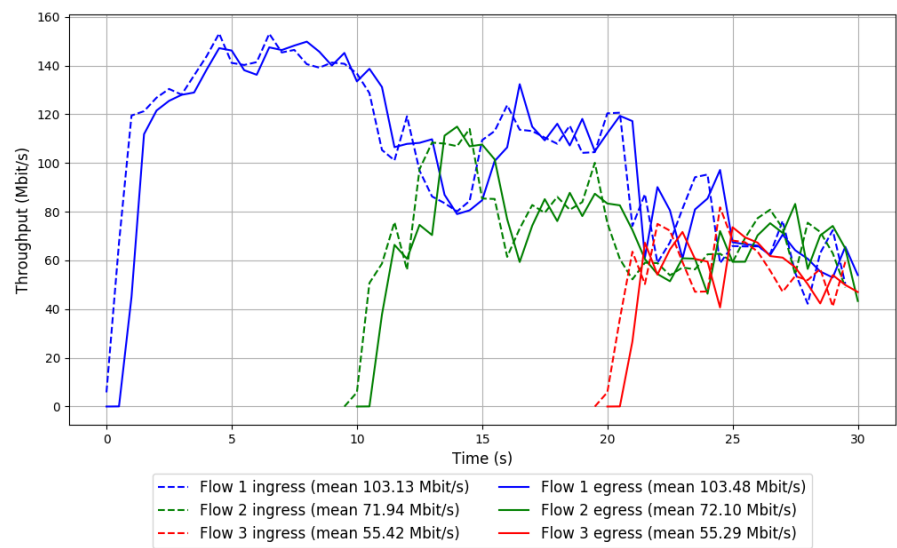


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-03 12:24:27  
End at: 2019-01-03 12:24:57  
Local clock offset: 2.521 ms  
Remote clock offset: -43.077 ms

# Below is generated by plot.py at 2019-01-03 13:38:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 169.51 Mbit/s  
95th percentile per-packet one-way delay: 144.467 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 103.48 Mbit/s  
95th percentile per-packet one-way delay: 144.460 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 72.10 Mbit/s  
95th percentile per-packet one-way delay: 144.031 ms  
Loss rate: 0.76%  
-- Flow 3:  
Average throughput: 55.29 Mbit/s  
95th percentile per-packet one-way delay: 145.416 ms  
Loss rate: 2.18%

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

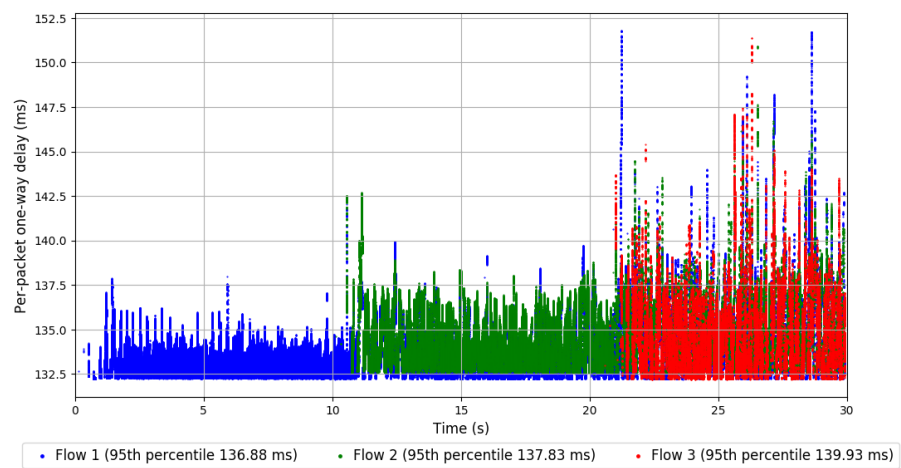
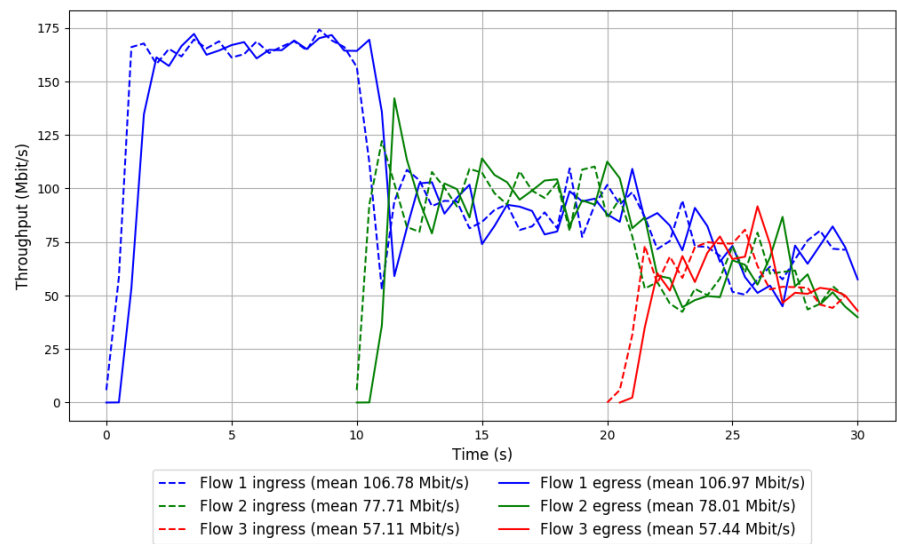


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-03 12:58:19  
End at: 2019-01-03 12:58:49  
Local clock offset: 0.332 ms  
Remote clock offset: -38.376 ms

# Below is generated by plot.py at 2019-01-03 13:39:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 176.62 Mbit/s  
95th percentile per-packet one-way delay: 137.570 ms  
Loss rate: 0.69%  
-- Flow 1:  
Average throughput: 106.97 Mbit/s  
95th percentile per-packet one-way delay: 136.877 ms  
Loss rate: 0.50%  
-- Flow 2:  
Average throughput: 78.01 Mbit/s  
95th percentile per-packet one-way delay: 137.828 ms  
Loss rate: 0.81%  
-- Flow 3:  
Average throughput: 57.44 Mbit/s  
95th percentile per-packet one-way delay: 139.933 ms  
Loss rate: 1.52%

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

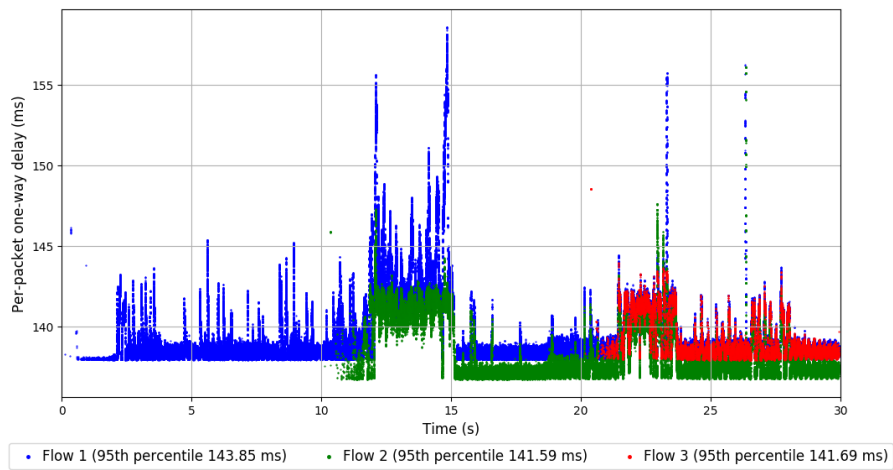
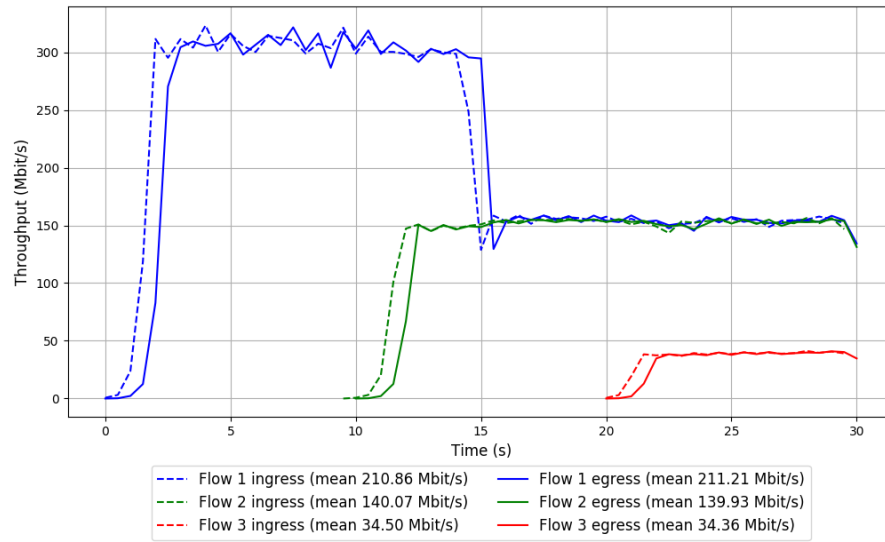


Run 1: Statistics of TCP Vegas

Start at: 2019-01-03 09:43:27  
End at: 2019-01-03 09:43:57  
Local clock offset: 3.463 ms  
Remote clock offset: -40.966 ms

# Below is generated by plot.py at 2019-01-03 13:39:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 315.43 Mbit/s  
95th percentile per-packet one-way delay: 142.933 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 211.21 Mbit/s  
95th percentile per-packet one-way delay: 143.848 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 139.93 Mbit/s  
95th percentile per-packet one-way delay: 141.591 ms  
Loss rate: 1.07%  
-- Flow 3:  
Average throughput: 34.36 Mbit/s  
95th percentile per-packet one-way delay: 141.695 ms  
Loss rate: 2.30%

# Run 1: Report of TCP Vegas — Data Link



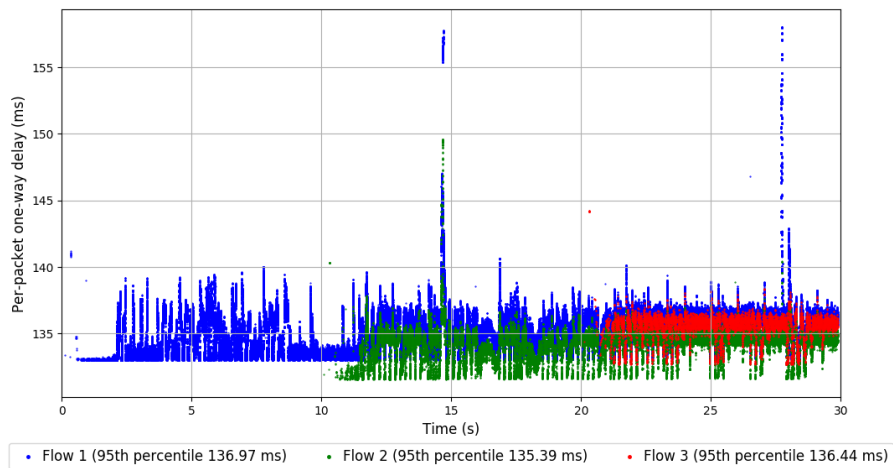
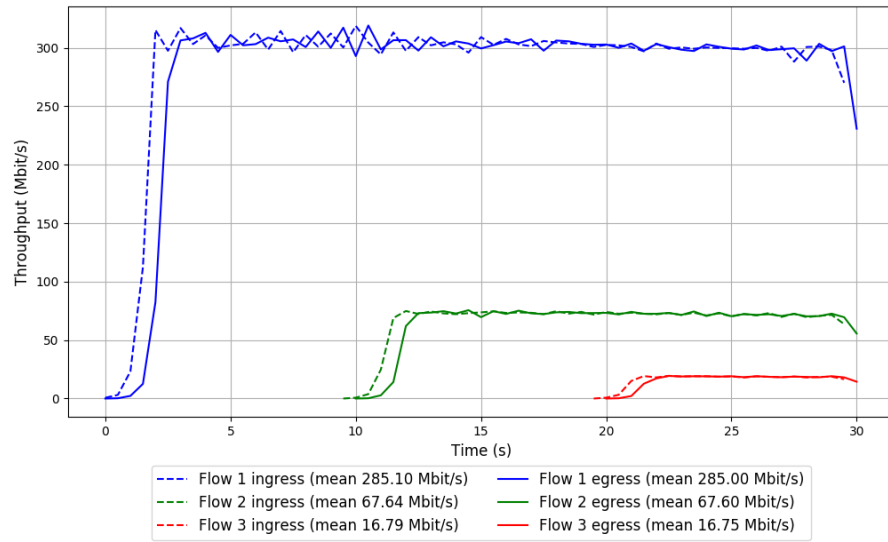


Run 2: Statistics of TCP Vegas

Start at: 2019-01-03 10:27:09  
End at: 2019-01-03 10:27:39  
Local clock offset: 2.611 ms  
Remote clock offset: -36.34 ms

# Below is generated by plot.py at 2019-01-03 13:39:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 335.45 Mbit/s  
95th percentile per-packet one-way delay: 136.893 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 285.00 Mbit/s  
95th percentile per-packet one-way delay: 136.971 ms  
Loss rate: 0.70%  
-- Flow 2:  
Average throughput: 67.60 Mbit/s  
95th percentile per-packet one-way delay: 135.394 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 16.75 Mbit/s  
95th percentile per-packet one-way delay: 136.444 ms  
Loss rate: 2.18%

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

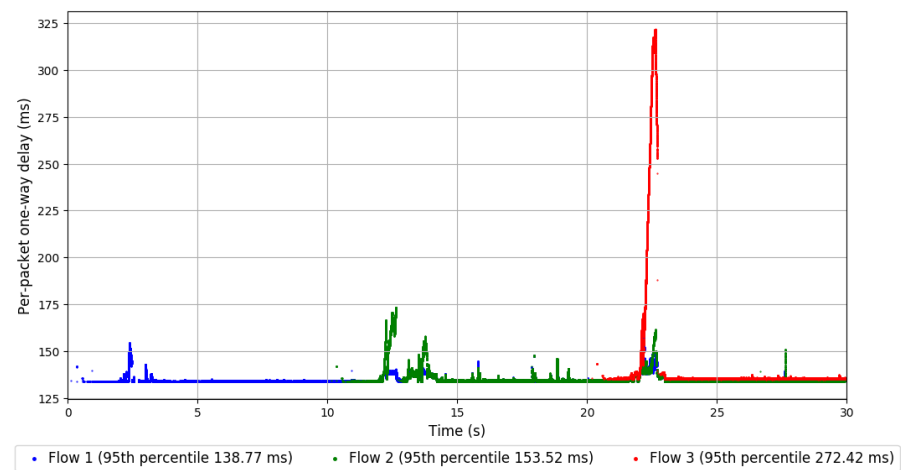
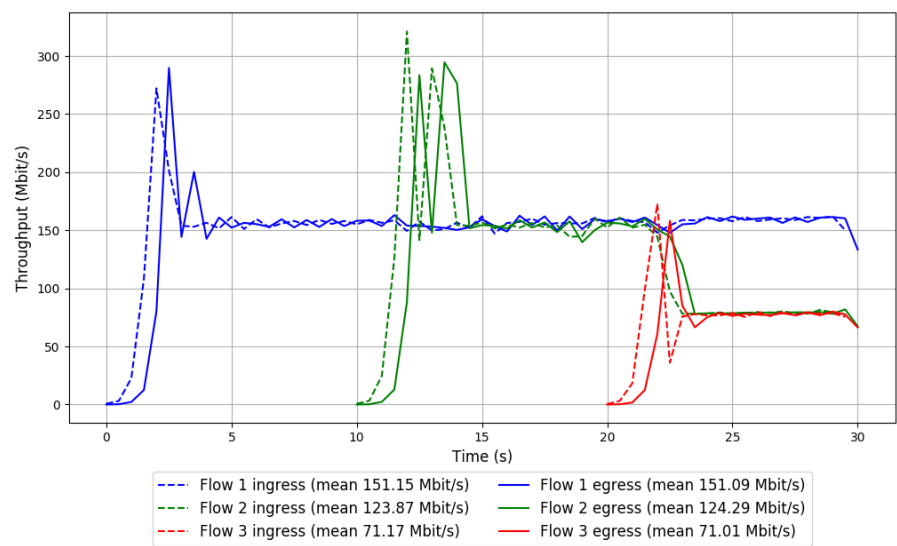


Run 3: Statistics of TCP Vegas

Start at: 2019-01-03 11:07:04  
End at: 2019-01-03 11:07:34  
Local clock offset: 1.753 ms  
Remote clock offset: -39.209 ms

# Below is generated by plot.py at 2019-01-03 13:39:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 256.86 Mbit/s  
95th percentile per-packet one-way delay: 144.751 ms  
Loss rate: 0.80%  
-- Flow 1:  
Average throughput: 151.09 Mbit/s  
95th percentile per-packet one-way delay: 138.774 ms  
Loss rate: 0.69%  
-- Flow 2:  
Average throughput: 124.29 Mbit/s  
95th percentile per-packet one-way delay: 153.520 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 71.01 Mbit/s  
95th percentile per-packet one-way delay: 272.415 ms  
Loss rate: 2.18%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-03 12:00:09

End at: 2019-01-03 12:00:39

Local clock offset: 0.804 ms

Remote clock offset: -45.588 ms

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

Figure is missing

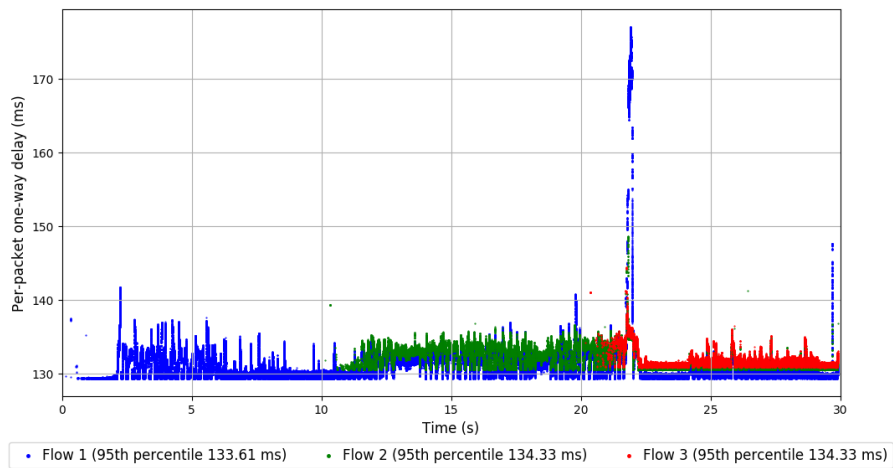
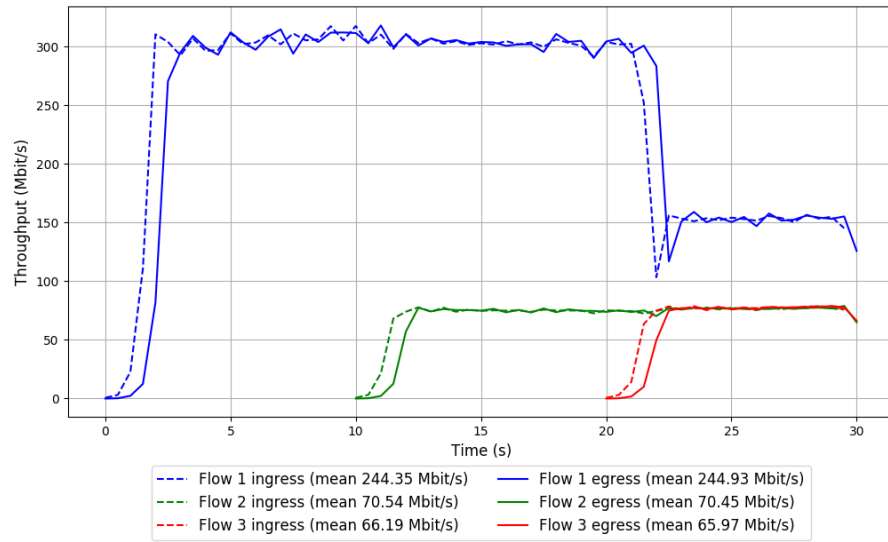
Figure is missing

Run 5: Statistics of TCP Vegas

Start at: 2019-01-03 12:44:55  
End at: 2019-01-03 12:45:25  
Local clock offset: 0.958 ms  
Remote clock offset: -35.502 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 313.28 Mbit/s  
95th percentile per-packet one-way delay: 133.997 ms  
Loss rate: 0.64%  
-- Flow 1:  
Average throughput: 244.93 Mbit/s  
95th percentile per-packet one-way delay: 133.613 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 70.45 Mbit/s  
95th percentile per-packet one-way delay: 134.330 ms  
Loss rate: 1.08%  
-- Flow 3:  
Average throughput: 65.97 Mbit/s  
95th percentile per-packet one-way delay: 134.333 ms  
Loss rate: 2.31%

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



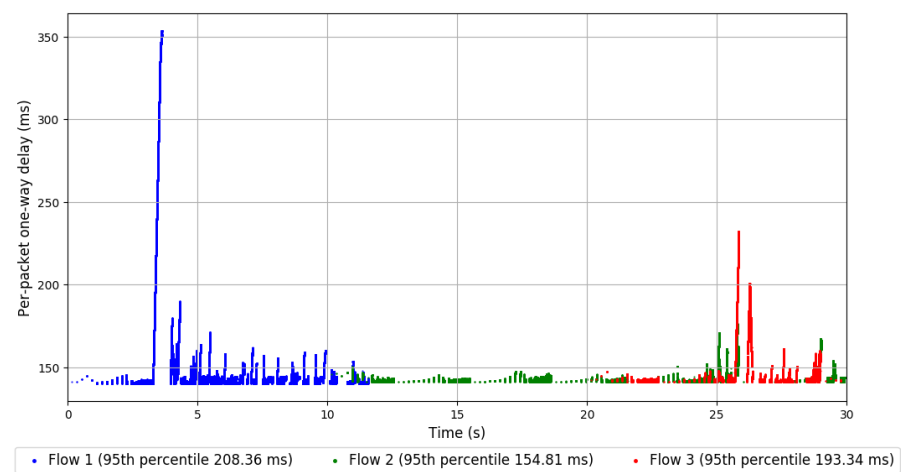
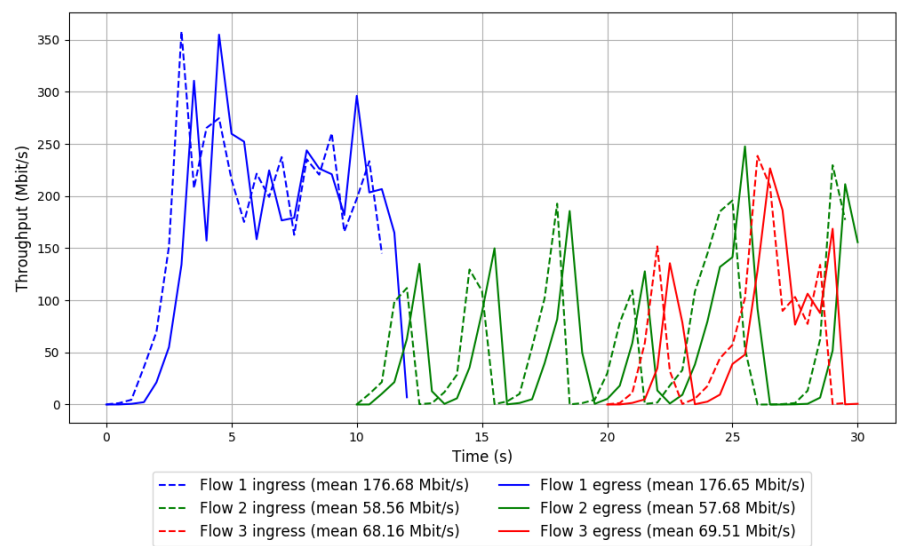


Run 1: Statistics of Verus

Start at: 2019-01-03 09:45:02  
End at: 2019-01-03 09:45:32  
Local clock offset: 3.468 ms  
Remote clock offset: -44.38 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 128.58 Mbit/s  
95th percentile per-packet one-way delay: 181.121 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 176.65 Mbit/s  
95th percentile per-packet one-way delay: 208.359 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 57.68 Mbit/s  
95th percentile per-packet one-way delay: 154.810 ms  
Loss rate: 2.48%  
-- Flow 3:  
Average throughput: 69.51 Mbit/s  
95th percentile per-packet one-way delay: 193.341 ms  
Loss rate: 0.07%

Run 1: Report of Verus — Data Link

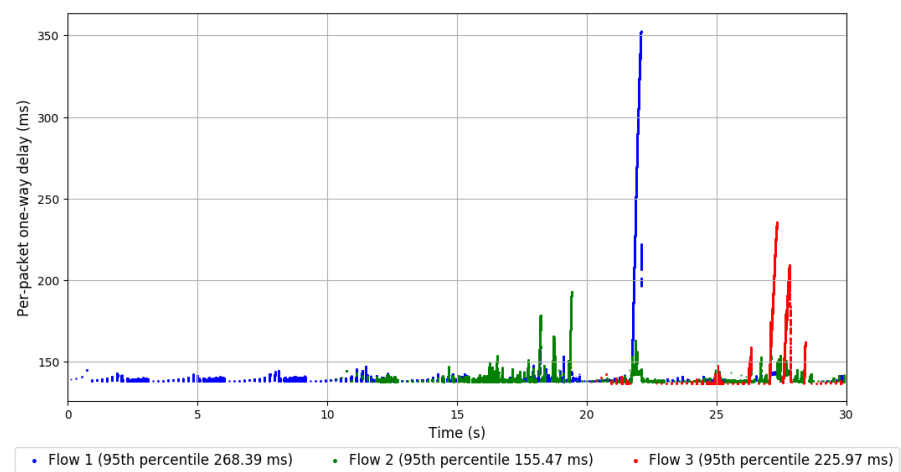
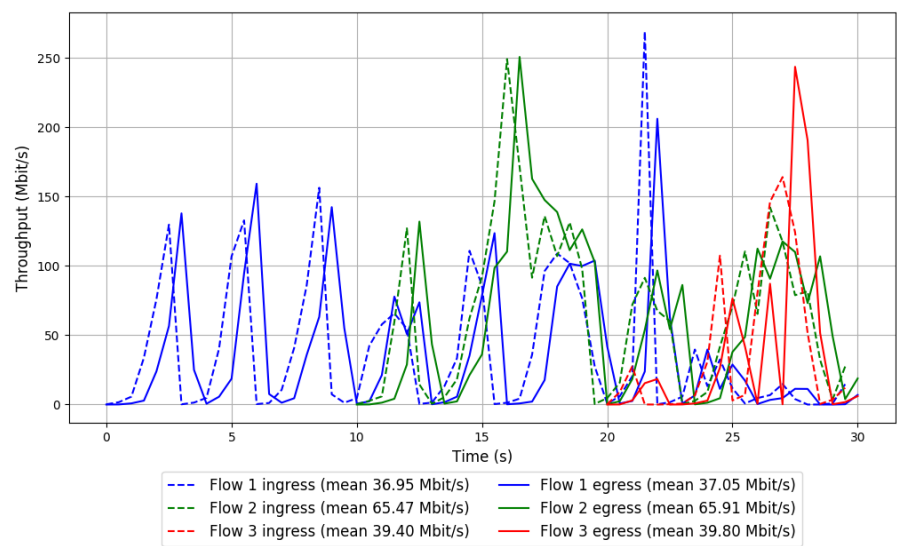


Run 2: Statistics of Verus

Start at: 2019-01-03 10:28:43  
End at: 2019-01-03 10:29:13  
Local clock offset: 3.374 ms  
Remote clock offset: -40.776 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.56 Mbit/s  
95th percentile per-packet one-way delay: 204.529 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 37.05 Mbit/s  
95th percentile per-packet one-way delay: 268.388 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 65.91 Mbit/s  
95th percentile per-packet one-way delay: 155.465 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 39.80 Mbit/s  
95th percentile per-packet one-way delay: 225.965 ms  
Loss rate: 1.06%

Run 2: Report of Verus — Data Link

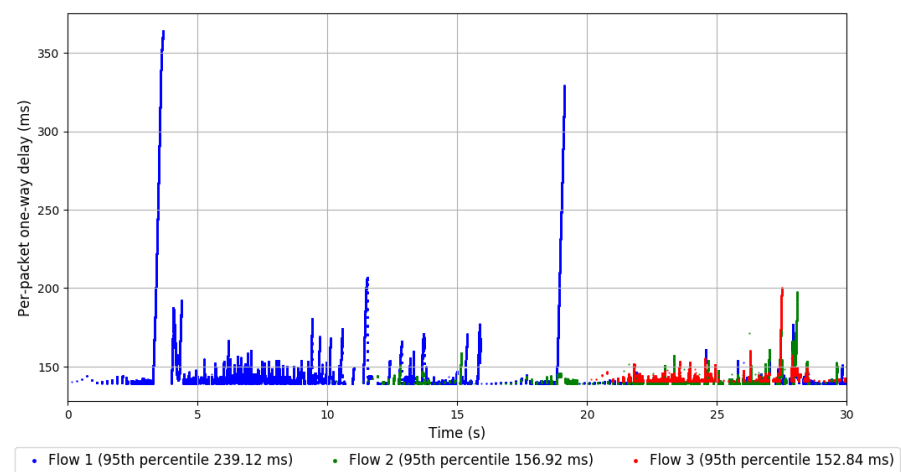
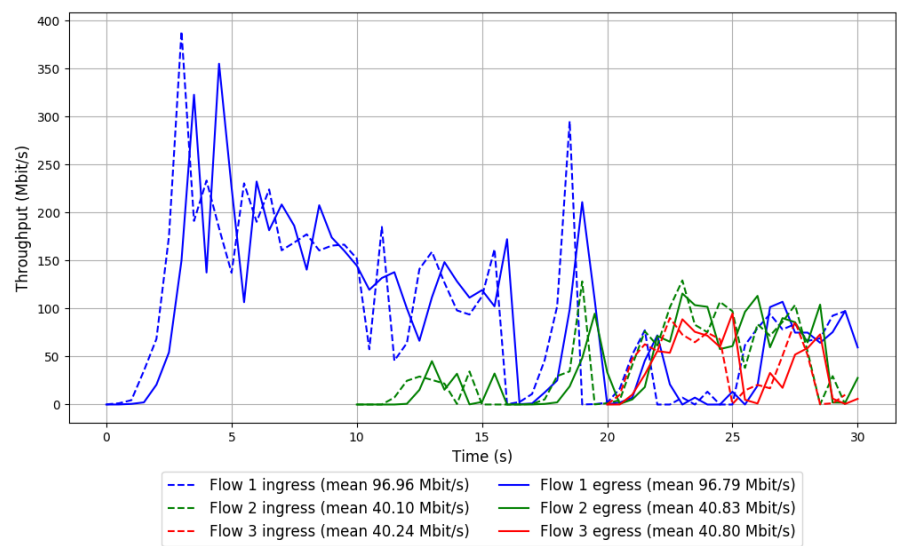


Run 3: Statistics of Verus

Start at: 2019-01-03 11:08:46  
End at: 2019-01-03 11:09:16  
Local clock offset: -0.989 ms  
Remote clock offset: -47.335 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 136.84 Mbit/s  
95th percentile per-packet one-way delay: 202.605 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 96.79 Mbit/s  
95th percentile per-packet one-way delay: 239.123 ms  
Loss rate: 0.83%  
-- Flow 2:  
Average throughput: 40.83 Mbit/s  
95th percentile per-packet one-way delay: 156.916 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 40.80 Mbit/s  
95th percentile per-packet one-way delay: 152.842 ms  
Loss rate: 0.63%

Run 3: Report of Verus — Data Link

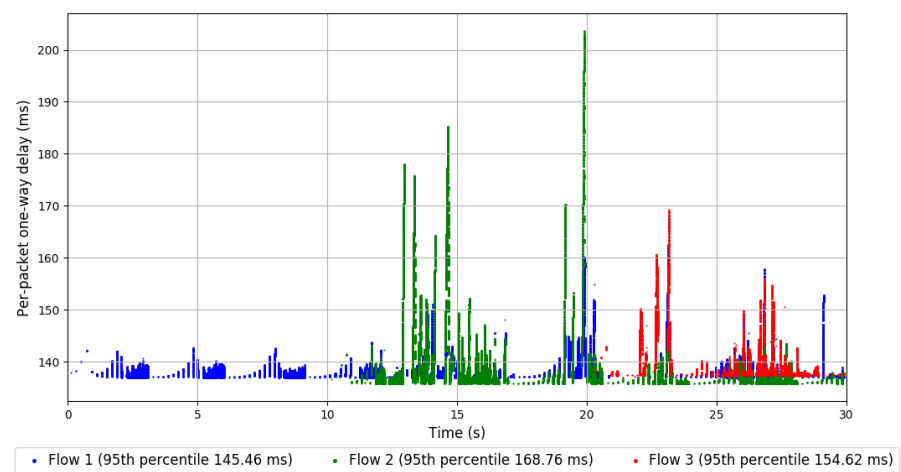
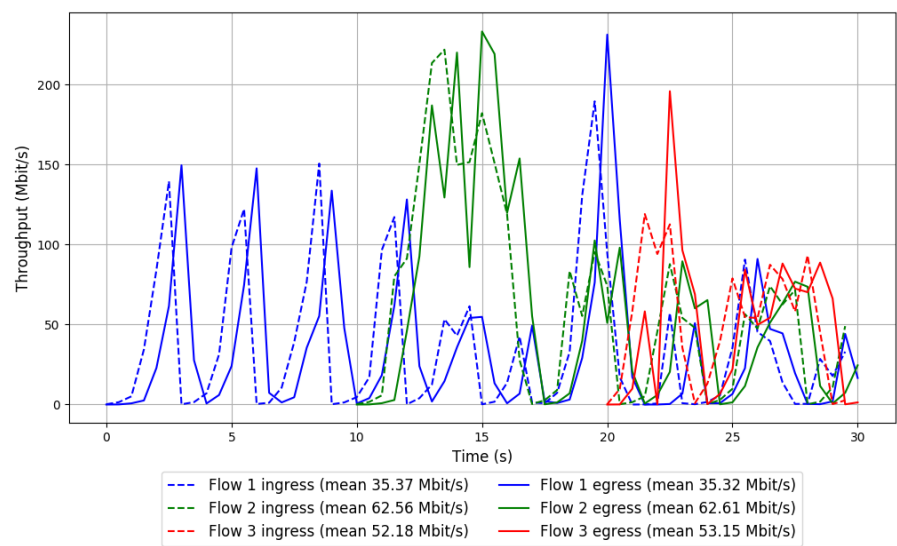


Run 4: Statistics of Verus

Start at: 2019-01-03 12:07:02  
End at: 2019-01-03 12:07:32  
Local clock offset: -0.718 ms  
Remote clock offset: -43.633 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.13 Mbit/s  
95th percentile per-packet one-way delay: 158.637 ms  
Loss rate: 0.84%  
-- Flow 1:  
Average throughput: 35.32 Mbit/s  
95th percentile per-packet one-way delay: 145.455 ms  
Loss rate: 0.80%  
-- Flow 2:  
Average throughput: 62.61 Mbit/s  
95th percentile per-packet one-way delay: 168.763 ms  
Loss rate: 1.17%  
-- Flow 3:  
Average throughput: 53.15 Mbit/s  
95th percentile per-packet one-way delay: 154.622 ms  
Loss rate: 0.15%

Run 4: Report of Verus — Data Link



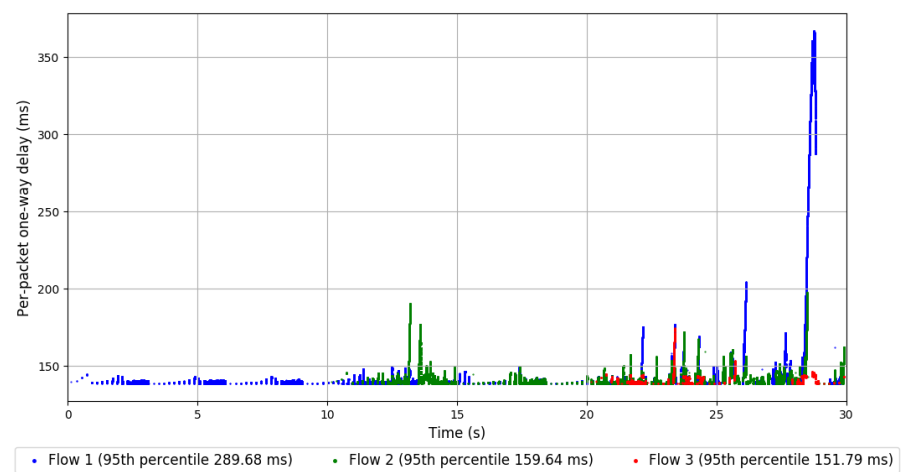
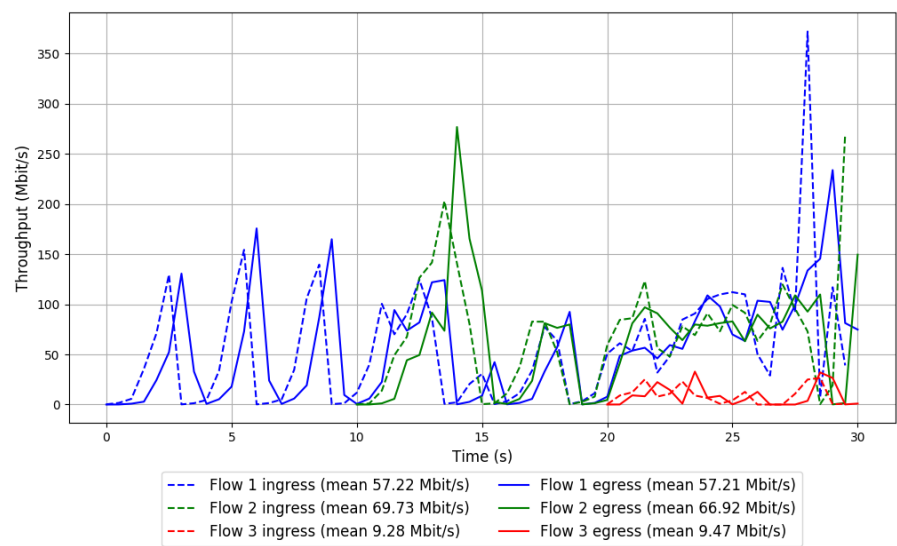


Run 5: Statistics of Verus

Start at: 2019-01-03 12:46:29  
End at: 2019-01-03 12:46:59  
Local clock offset: -0.782 ms  
Remote clock offset: -45.32 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 104.59 Mbit/s  
95th percentile per-packet one-way delay: 182.265 ms  
Loss rate: 2.18%  
-- Flow 1:  
Average throughput: 57.21 Mbit/s  
95th percentile per-packet one-way delay: 289.678 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 66.92 Mbit/s  
95th percentile per-packet one-way delay: 159.638 ms  
Loss rate: 4.97%  
-- Flow 3:  
Average throughput: 9.47 Mbit/s  
95th percentile per-packet one-way delay: 151.792 ms  
Loss rate: 0.01%

Run 5: Report of Verus — Data Link

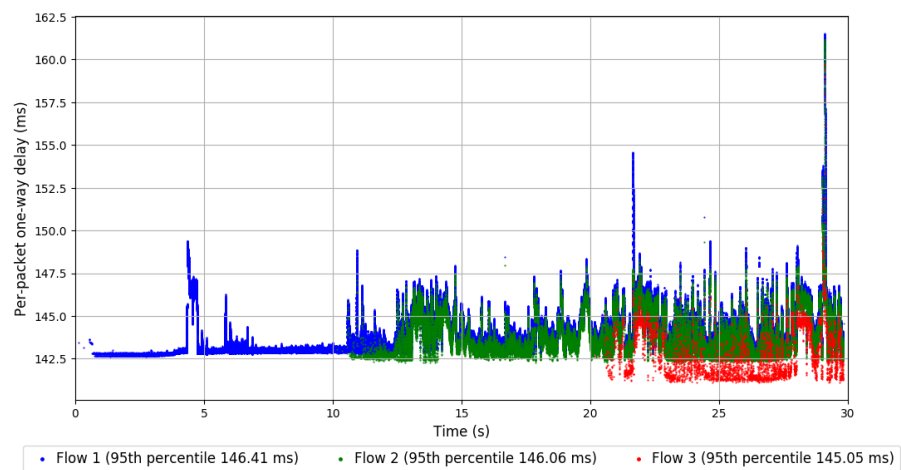
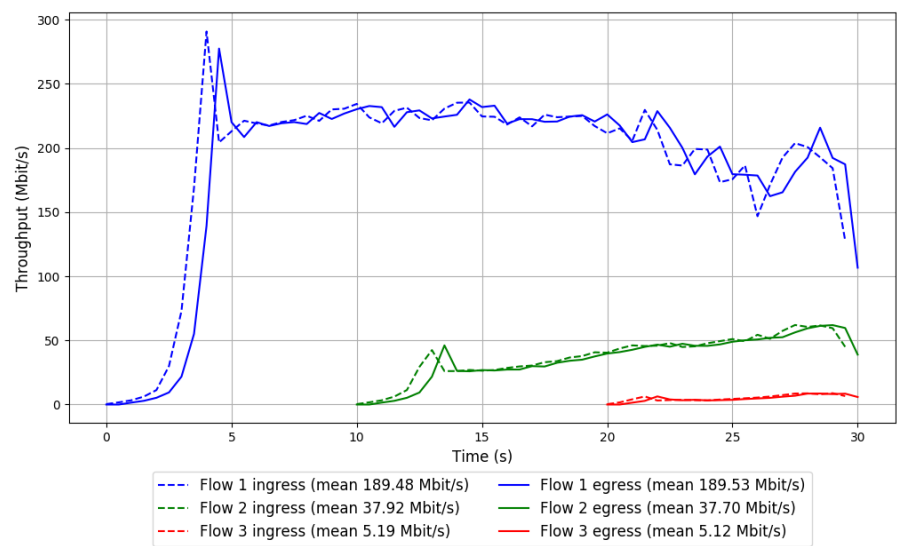


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-03 10:16:55  
End at: 2019-01-03 10:17:25  
Local clock offset: 1.651 ms  
Remote clock offset: -47.614 ms

# Below is generated by plot.py at 2019-01-03 13:41:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 216.15 Mbit/s  
95th percentile per-packet one-way delay: 146.381 ms  
Loss rate: 0.78%  
-- Flow 1:  
Average throughput: 189.53 Mbit/s  
95th percentile per-packet one-way delay: 146.413 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 37.70 Mbit/s  
95th percentile per-packet one-way delay: 146.059 ms  
Loss rate: 1.56%  
-- Flow 3:  
Average throughput: 5.12 Mbit/s  
95th percentile per-packet one-way delay: 145.051 ms  
Loss rate: 3.32%

Run 1: Report of PCC-Vivace — Data Link

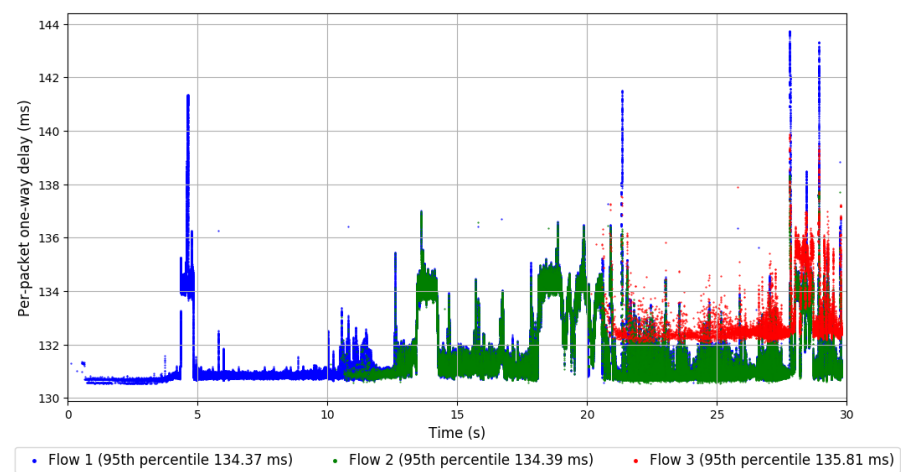
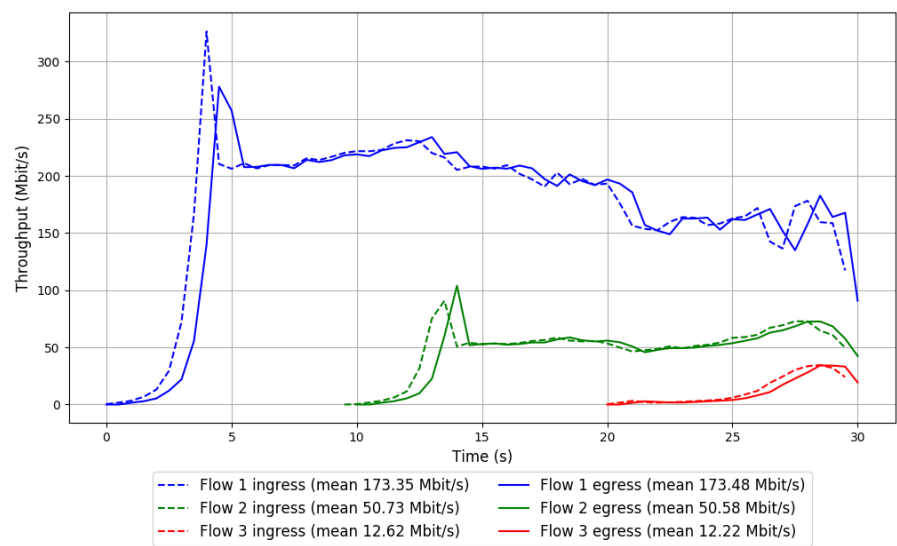


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-03 10:56:30  
End at: 2019-01-03 10:57:00  
Local clock offset: -1.4 ms  
Remote clock offset: -39.158 ms

# Below is generated by plot.py at 2019-01-03 13:41:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 211.00 Mbit/s  
95th percentile per-packet one-way delay: 134.400 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 173.48 Mbit/s  
95th percentile per-packet one-way delay: 134.374 ms  
Loss rate: 0.57%  
-- Flow 2:  
Average throughput: 50.58 Mbit/s  
95th percentile per-packet one-way delay: 134.386 ms  
Loss rate: 1.27%  
-- Flow 3:  
Average throughput: 12.22 Mbit/s  
95th percentile per-packet one-way delay: 135.813 ms  
Loss rate: 5.09%

Run 2: Report of PCC-Vivace — Data Link



Run 3: Statistics of PCC-Vivace

Start at: 2019-01-03 11:34:48

End at: 2019-01-03 11:35:18

Local clock offset: 1.28 ms

Remote clock offset: -38.638 ms

Run 3: Report of PCC-Vivace — Data Link

Figure is missing

Figure is missing

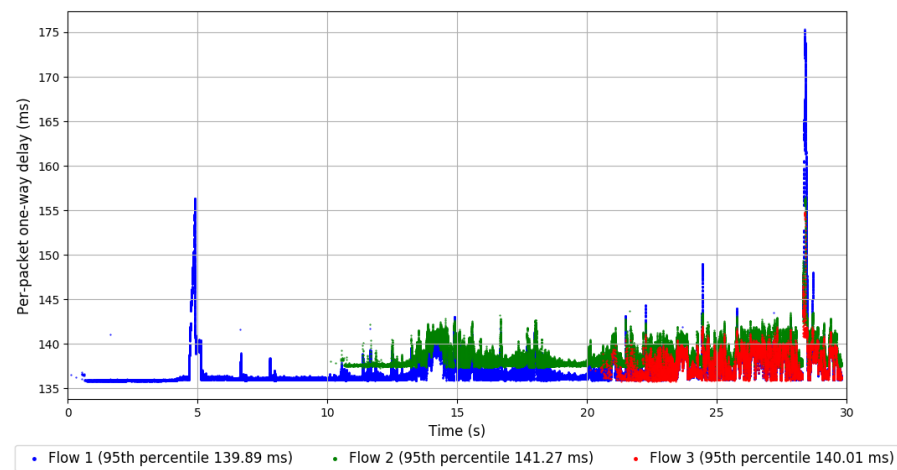
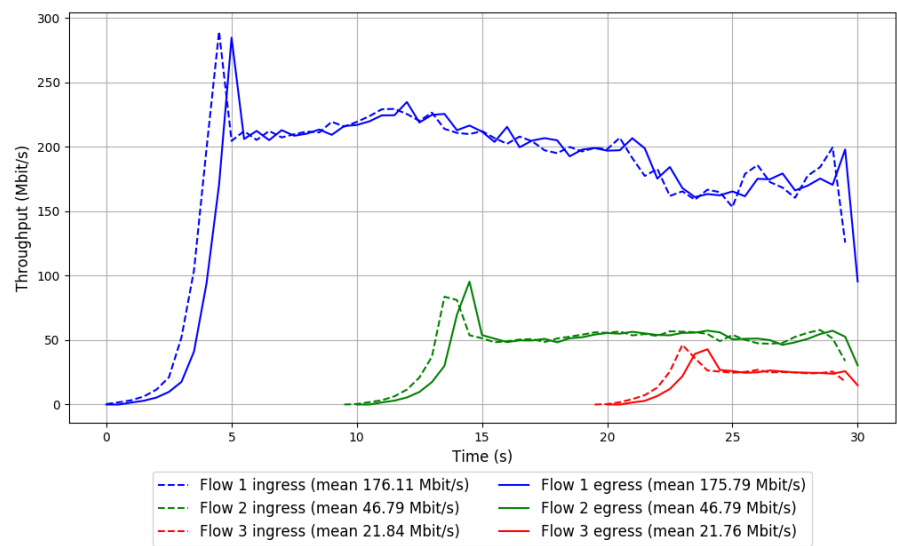


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-03 12:34:49  
End at: 2019-01-03 12:35:19  
Local clock offset: 0.336 ms  
Remote clock offset: -42.741 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 213.93 Mbit/s  
95th percentile per-packet one-way delay: 140.640 ms  
Loss rate: 0.89%  
-- Flow 1:  
Average throughput: 175.79 Mbit/s  
95th percentile per-packet one-way delay: 139.889 ms  
Loss rate: 0.82%  
-- Flow 2:  
Average throughput: 46.79 Mbit/s  
95th percentile per-packet one-way delay: 141.273 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 21.76 Mbit/s  
95th percentile per-packet one-way delay: 140.009 ms  
Loss rate: 2.28%

Run 4: Report of PCC-Vivace — Data Link

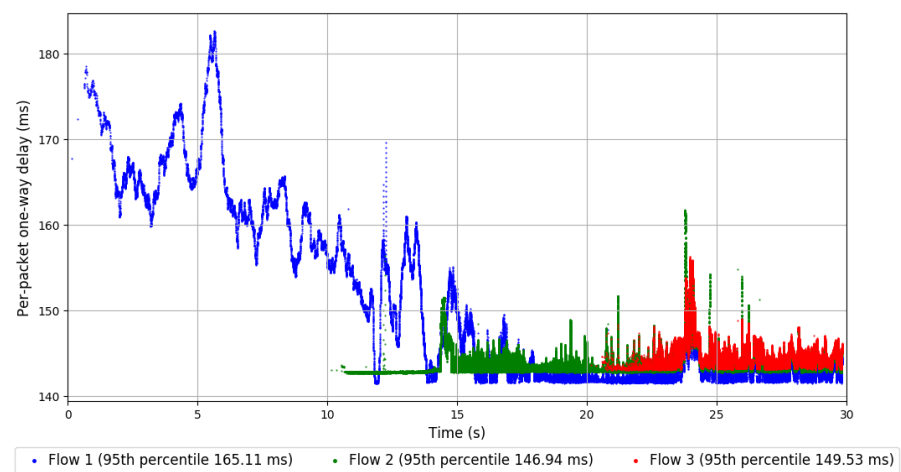
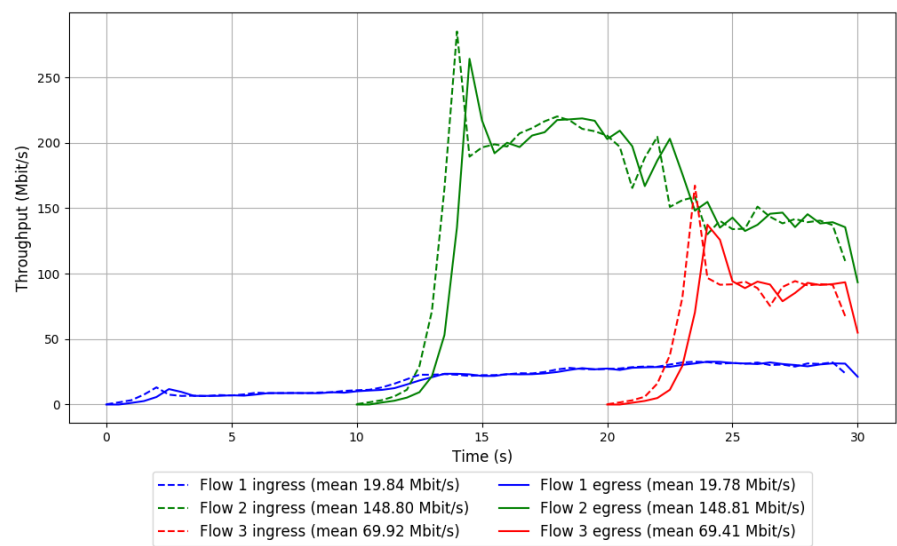


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-03 13:03:04  
End at: 2019-01-03 13:03:34  
Local clock offset: 1.472 ms  
Remote clock offset: -48.013 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 141.14 Mbit/s  
95th percentile per-packet one-way delay: 150.406 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 19.78 Mbit/s  
95th percentile per-packet one-way delay: 165.113 ms  
Loss rate: 1.04%  
-- Flow 2:  
Average throughput: 148.81 Mbit/s  
95th percentile per-packet one-way delay: 146.935 ms  
Loss rate: 0.98%  
-- Flow 3:  
Average throughput: 69.41 Mbit/s  
95th percentile per-packet one-way delay: 149.529 ms  
Loss rate: 2.70%

Run 5: Report of PCC-Vivace — Data Link

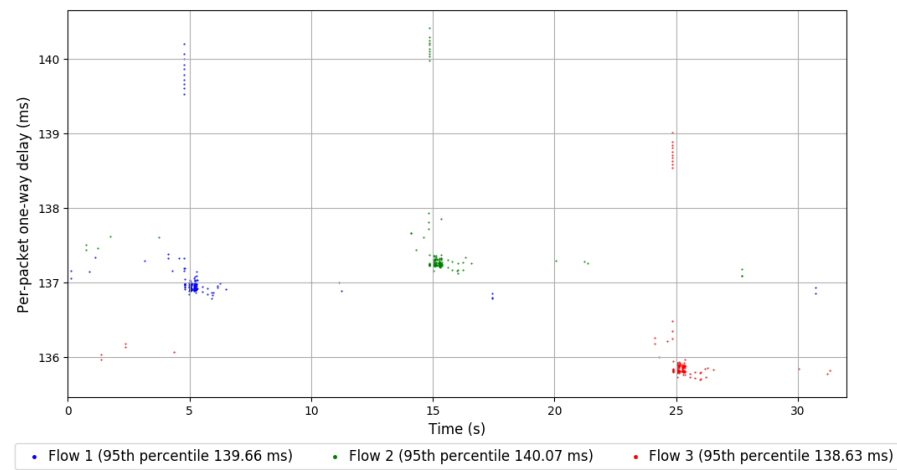
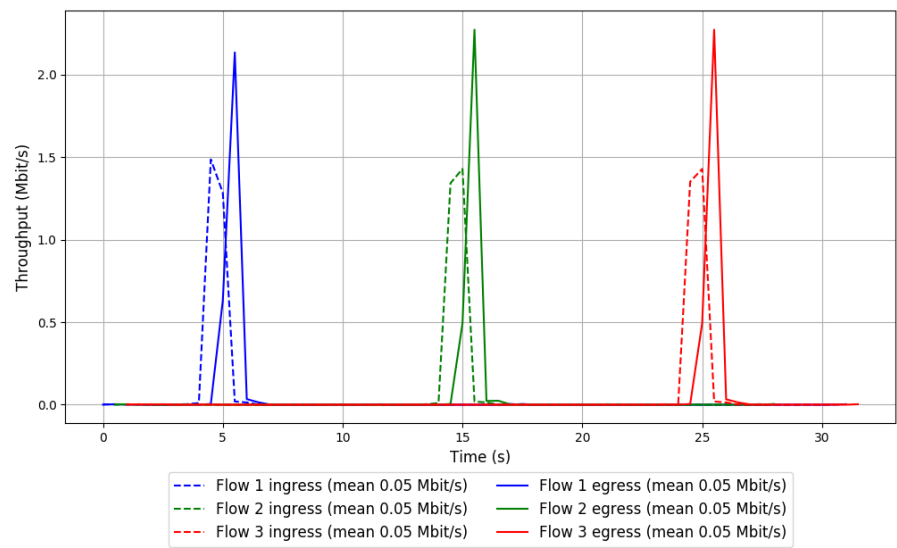


Run 1: Statistics of WebRTC media

Start at: 2019-01-03 10:18:27  
End at: 2019-01-03 10:18:57  
Local clock offset: 1.929 ms  
Remote clock offset: -41.788 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 138.847 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 139.661 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 140.067 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 138.630 ms  
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

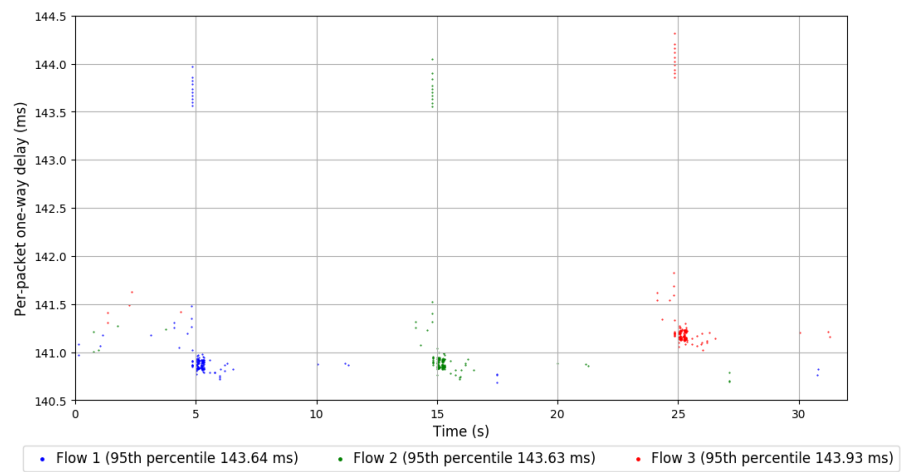
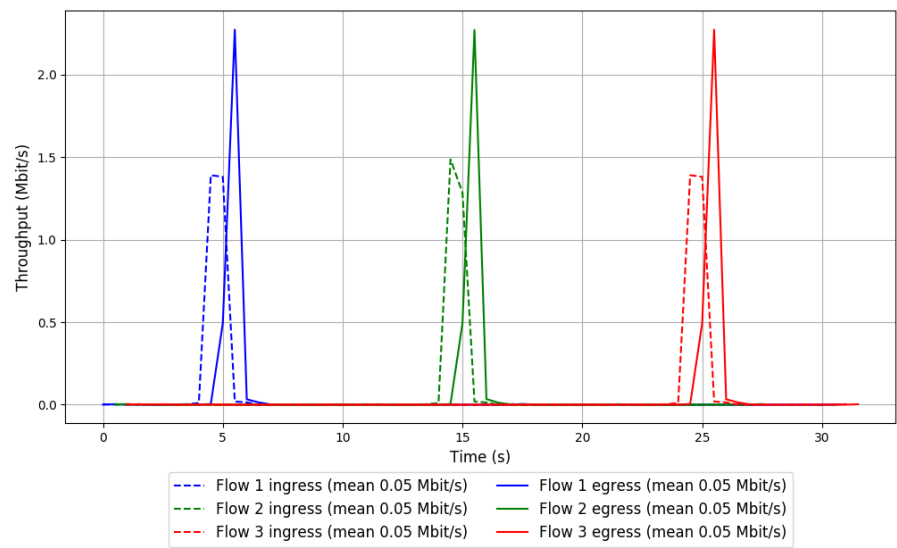


Run 2: Statistics of WebRTC media

Start at: 2019-01-03 10:58:03  
End at: 2019-01-03 10:58:33  
Local clock offset: -1.72 ms  
Remote clock offset: -48.459 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 143.671 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 143.636 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 143.634 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 143.934 ms  
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link



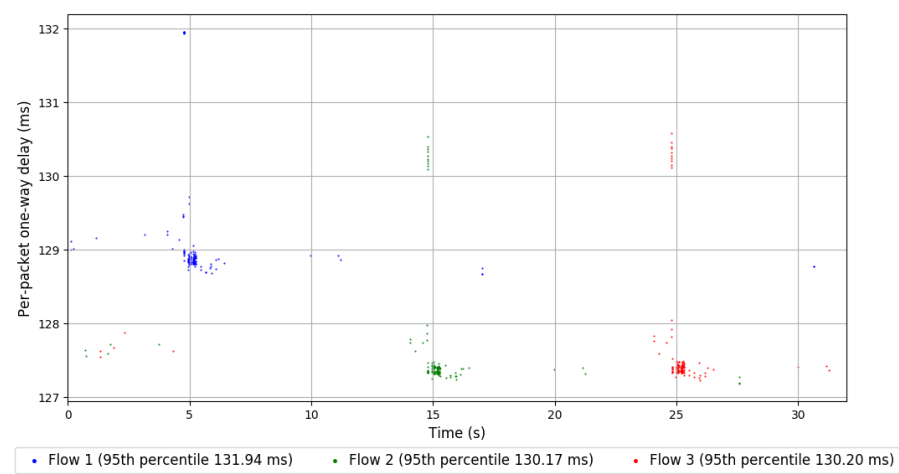
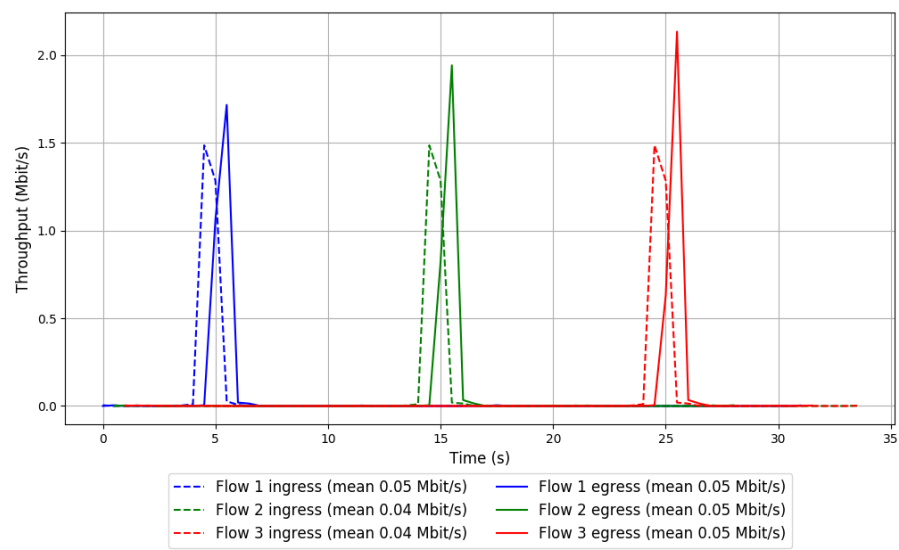


Run 3: Statistics of WebRTC media

Start at: 2019-01-03 11:51:37  
End at: 2019-01-03 11:52:07  
Local clock offset: 0.704 ms  
Remote clock offset: -33.338 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 130.232 ms  
Loss rate: 0.03%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 131.944 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 130.166 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 130.199 ms  
Loss rate: 0.05%

Run 3: Report of WebRTC media — Data Link

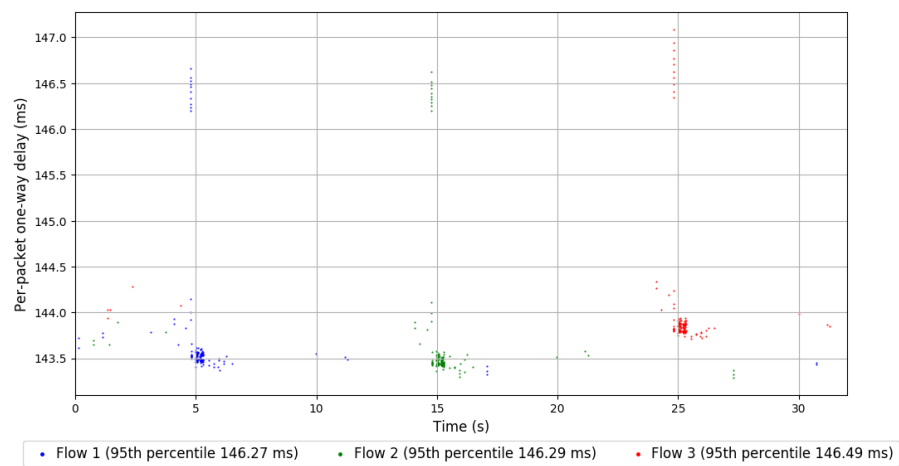
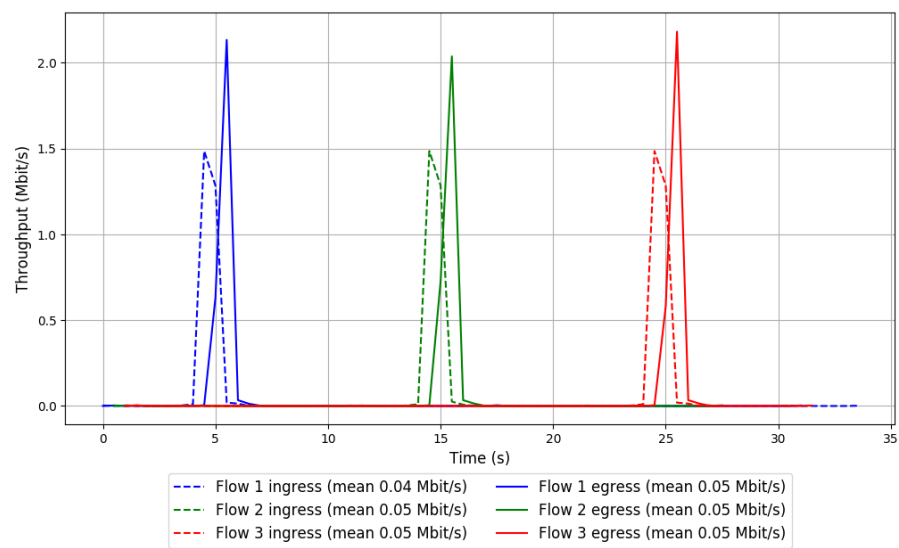


Run 4: Statistics of WebRTC media

Start at: 2019-01-03 12:36:23  
End at: 2019-01-03 12:36:53  
Local clock offset: 0.693 ms  
Remote clock offset: -48.722 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 146.333 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 146.271 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 146.288 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 146.492 ms  
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-03 13:04:33  
End at: 2019-01-03 13:05:03  
Local clock offset: 0.049 ms  
Remote clock offset: -38.186 ms

# Below is generated by plot.py at 2019-01-03 13:41:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.14 Mbit/s  
95th percentile per-packet one-way delay: 133.336 ms  
Loss rate: 0.02%  
-- Flow 1:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 134.387 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 132.980 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 0.05 Mbit/s  
95th percentile per-packet one-way delay: 134.339 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

