

Pantheon Report

Generated at 2019-03-27 04:44:37 (UTC).

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

Repeated the test of 21 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:

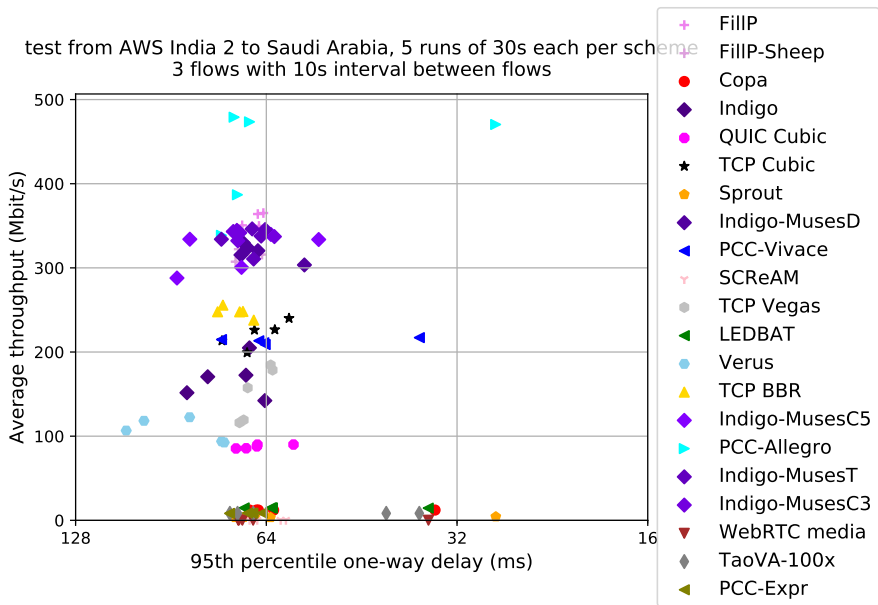
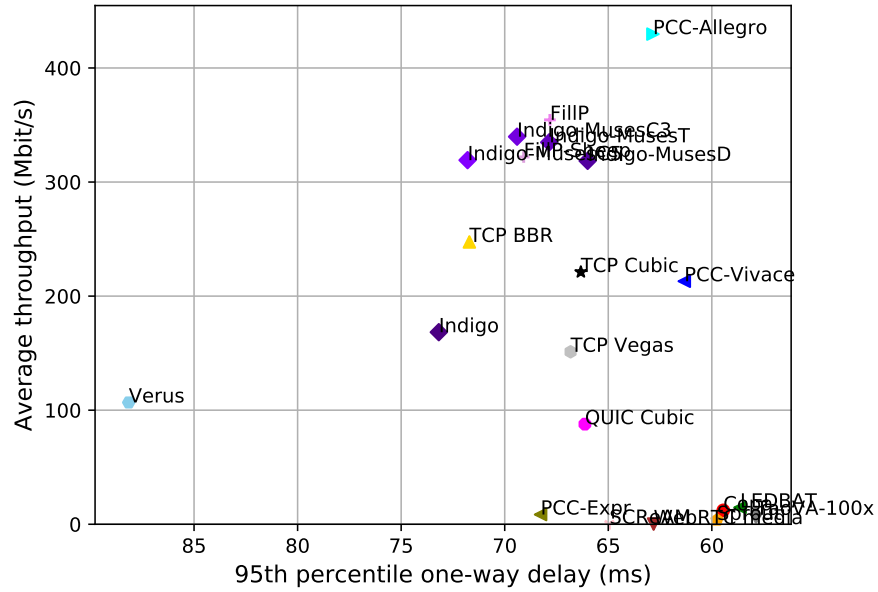
```
Linux 4.15.0-1034-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 7a686f7c2ed0a333082c0bab1fa5c921ab47e6ee
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 5ce721187ad823da20955337730c746486ca4966
third_party/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 AWS India 2 to Saudi Arabia, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



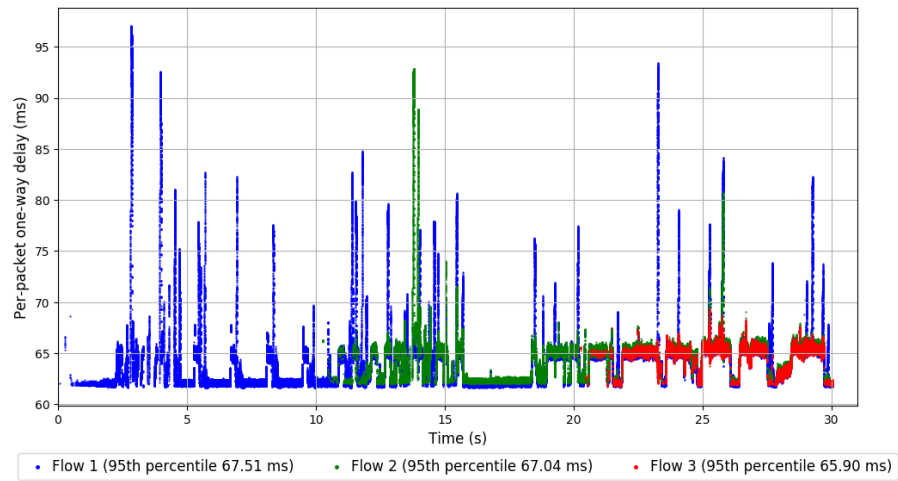
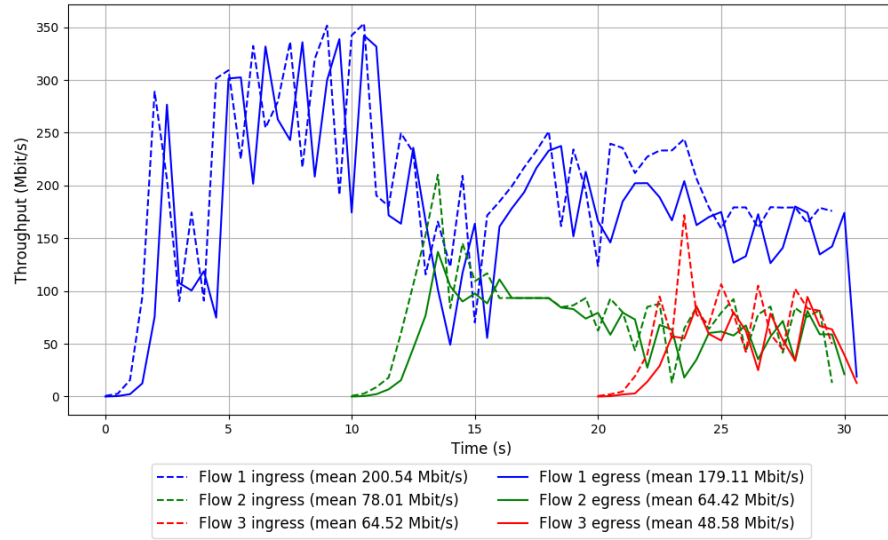
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	206.58	43.19	39.53	72.50	67.59	67.97	11.78	19.48	19.89
Copa	5	8.78	5.12	0.08	59.63	58.97	59.48	67.29	75.22	86.94
TCP Cubic	5	137.69	81.38	87.86	65.92	66.36	66.43	1.26	1.23	1.53
FillP	5	244.97	127.24	75.06	66.95	68.08	66.05	22.68	23.47	21.46
FillP-Sheep	5	234.33	87.79	88.40	68.89	68.66	67.64	14.44	11.70	10.92
Indigo	5	88.27	78.71	88.57	74.52	75.59	69.89	10.75	14.93	26.84
Indigo-MusesC3	5	306.41	45.12	13.34	68.99	68.76	67.19	13.84	10.22	9.09
Indigo-MusesC5	5	317.46	2.06	1.47	71.86	63.17	63.03	26.91	28.61	27.12
Indigo-MusesD	5	294.89	22.59	30.61	66.01	64.10	64.89	12.52	10.30	9.49
Indigo-MusesT	5	303.80	36.79	24.02	67.39	69.01	66.31	10.52	8.98	7.91
LEDBAT	5	9.49	6.32	3.06	58.58	57.69	58.06	0.00	0.00	0.00
PCC-Allegro	5	365.59	87.83	17.32	62.97	61.90	63.33	6.47	2.62	1.64
PCC-Expr	5	0.01	10.39	4.86	67.48	68.26	68.30	82.28	32.73	32.37
QUIC Cubic	5	53.53	38.02	27.81	65.60	66.83	68.51	0.00	0.00	0.01
SCReAM	5	0.22	0.22	0.22	64.39	64.41	64.45	0.00	0.00	0.00
Sprout	5	1.73	2.40	1.44	58.77	59.89	58.54	0.00	0.00	0.00
TaoVA-100x	5	0.00	9.07	6.73	51.43	59.88	52.83	95.92	30.01	36.58
TCP Vegas	5	81.02	65.99	78.75	66.99	65.62	67.31	1.71	2.10	2.98
Verus	5	73.23	30.78	43.91	84.24	77.94	80.31	55.43	36.93	37.31
PCC-Vivace	5	184.79	34.53	16.02	61.30	61.22	61.34	1.35	0.82	1.12
WebRTC media	5	0.05	0.05	0.05	63.47	62.09	63.36	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2019-03-27 01:04:46
End at: 2019-03-27 01:05:16
Local clock offset: 5.478 ms
Remote clock offset: -37.852 ms

Below is generated by plot.py at 2019-03-27 04:18:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 237.90 Mbit/s
95th percentile per-packet one-way delay: 66.993 ms
Loss rate: 13.06%
-- Flow 1:
Average throughput: 179.11 Mbit/s
95th percentile per-packet one-way delay: 67.510 ms
Loss rate: 10.69%
-- Flow 2:
Average throughput: 64.42 Mbit/s
95th percentile per-packet one-way delay: 67.038 ms
Loss rate: 17.43%
-- Flow 3:
Average throughput: 48.58 Mbit/s
95th percentile per-packet one-way delay: 65.900 ms
Loss rate: 24.71%

Run 1: Report of TCP BBR — Data Link

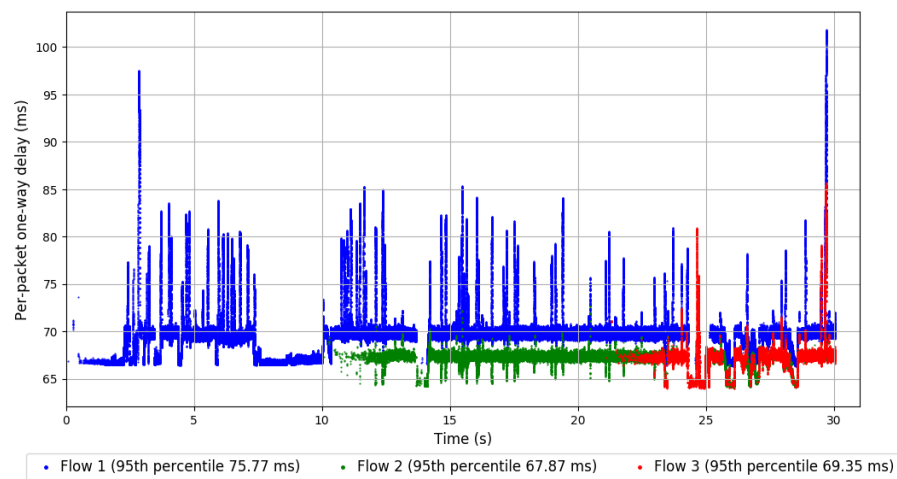
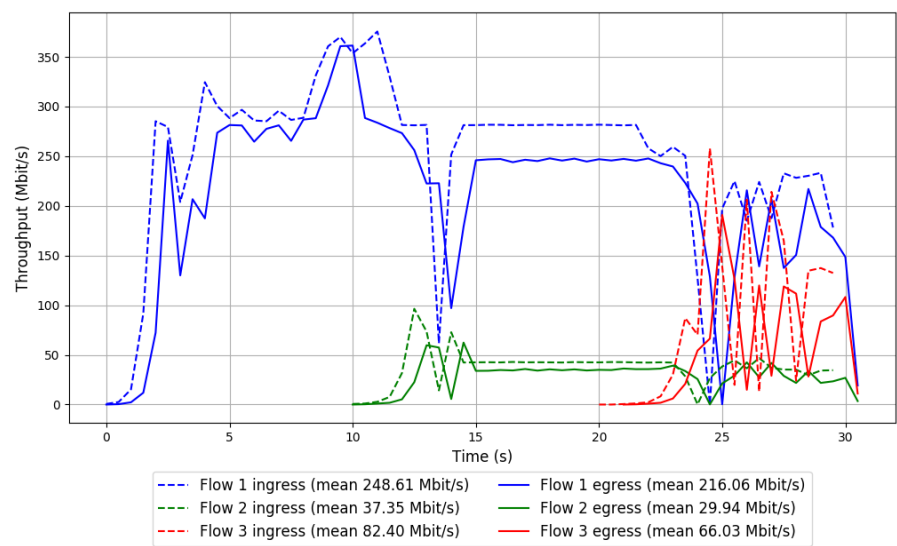


Run 2: Statistics of TCP BBR

Start at: 2019-03-27 01:40:57
End at: 2019-03-27 01:41:27
Local clock offset: 4.841 ms
Remote clock offset: -36.058 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 255.72 Mbit/s
95th percentile per-packet one-way delay: 74.945 ms
Loss rate: 15.00%
-- Flow 1:
Average throughput: 216.06 Mbit/s
95th percentile per-packet one-way delay: 75.771 ms
Loss rate: 13.08%
-- Flow 2:
Average throughput: 29.94 Mbit/s
95th percentile per-packet one-way delay: 67.866 ms
Loss rate: 19.85%
-- Flow 3:
Average throughput: 66.03 Mbit/s
95th percentile per-packet one-way delay: 69.349 ms
Loss rate: 28.02%

Run 2: Report of TCP BBR — Data Link

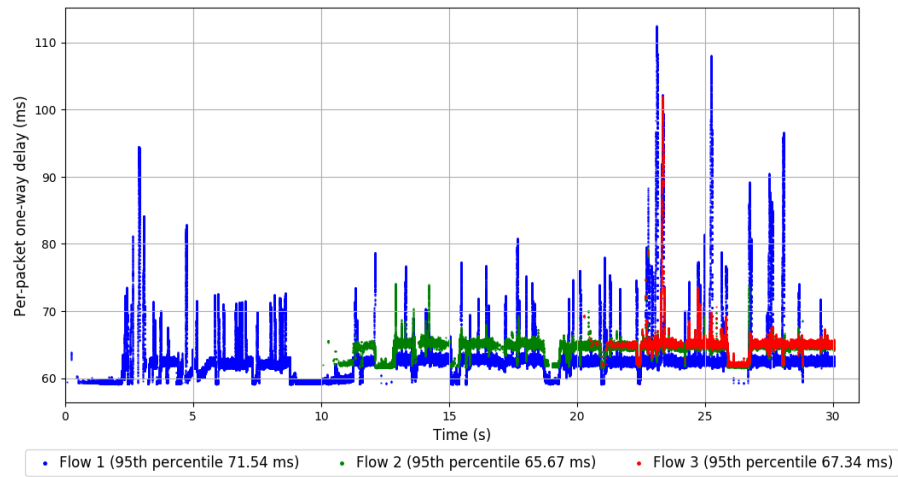
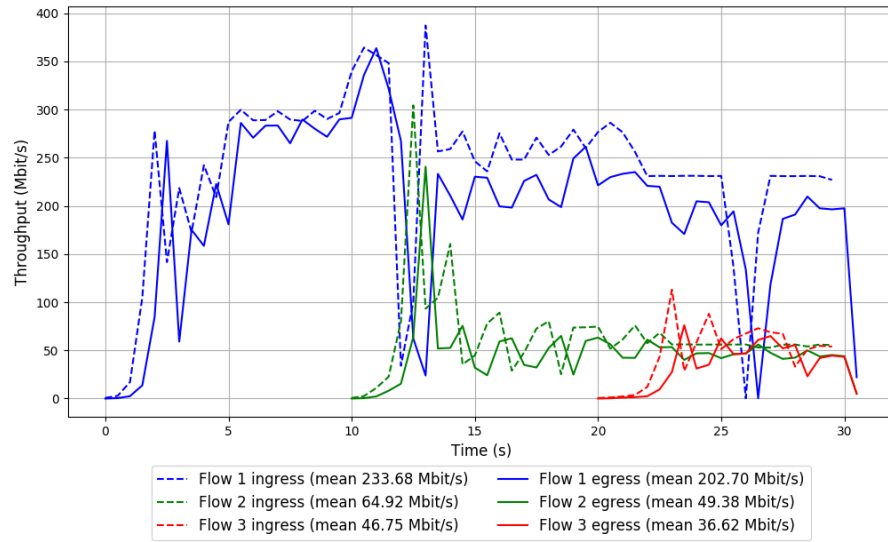


Run 3: Statistics of TCP BBR

Start at: 2019-03-27 02:23:07
End at: 2019-03-27 02:23:37
Local clock offset: 2.432 ms
Remote clock offset: -39.431 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.77 Mbit/s
95th percentile per-packet one-way delay: 70.515 ms
Loss rate: 15.27%
-- Flow 1:
Average throughput: 202.70 Mbit/s
95th percentile per-packet one-way delay: 71.540 ms
Loss rate: 13.25%
-- Flow 2:
Average throughput: 49.38 Mbit/s
95th percentile per-packet one-way delay: 65.666 ms
Loss rate: 23.93%
-- Flow 3:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 67.336 ms
Loss rate: 21.67%

Run 3: Report of TCP BBR — Data Link

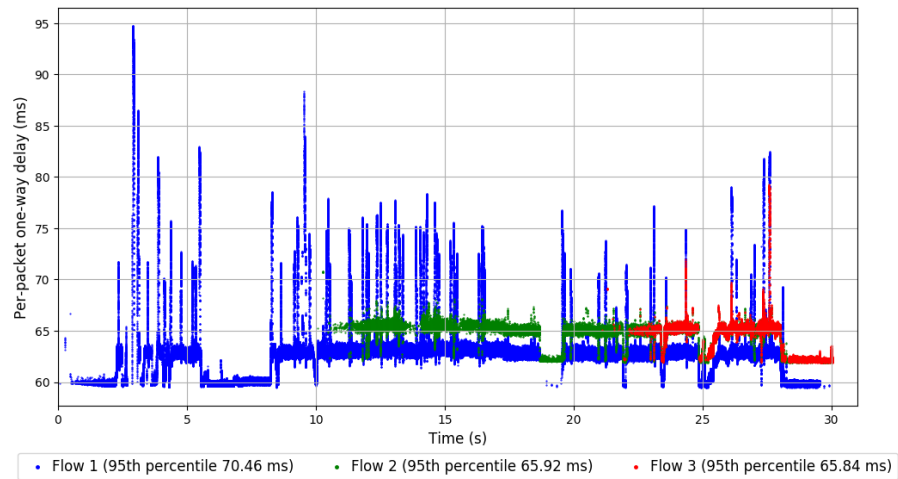
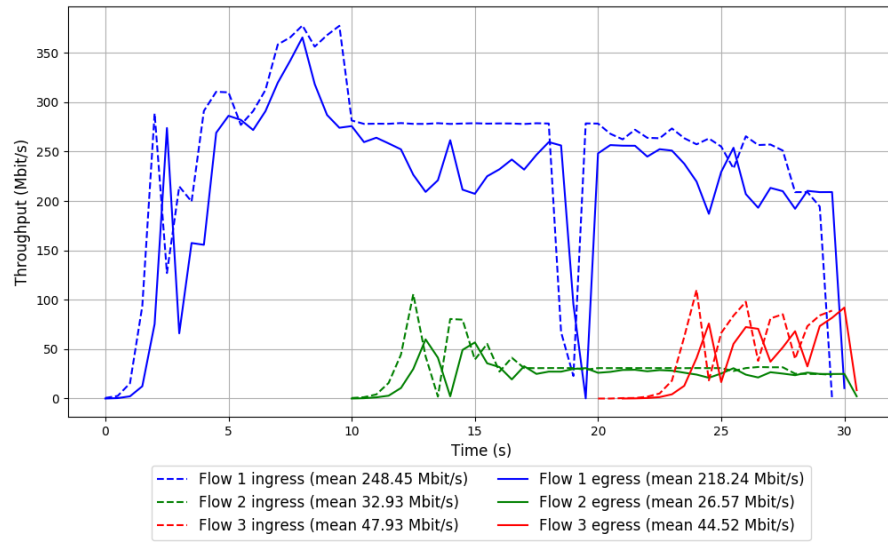


Run 4: Statistics of TCP BBR

Start at: 2019-03-27 02:59:19
End at: 2019-03-27 02:59:49
Local clock offset: -0.326 ms
Remote clock offset: -40.138 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 248.23 Mbit/s
95th percentile per-packet one-way delay: 69.676 ms
Loss rate: 12.97%
-- Flow 1:
Average throughput: 218.24 Mbit/s
95th percentile per-packet one-way delay: 70.457 ms
Loss rate: 12.16%
-- Flow 2:
Average throughput: 26.57 Mbit/s
95th percentile per-packet one-way delay: 65.919 ms
Loss rate: 19.31%
-- Flow 3:
Average throughput: 44.52 Mbit/s
95th percentile per-packet one-way delay: 65.841 ms
Loss rate: 16.73%

Run 4: Report of TCP BBR — Data Link

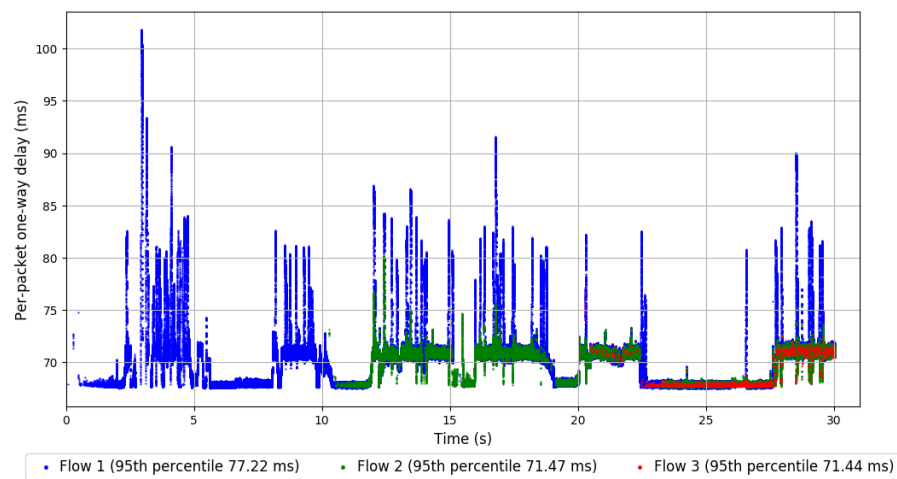
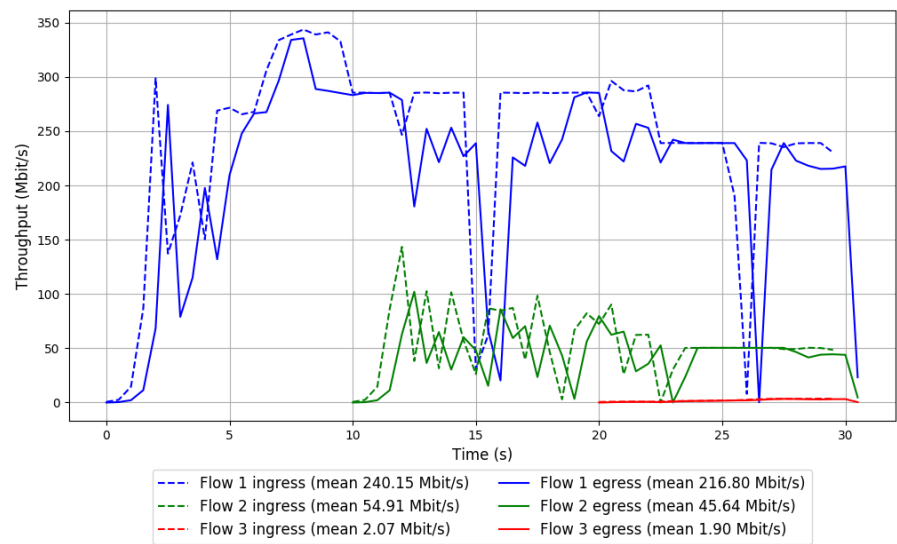


Run 5: Statistics of TCP BBR

Start at: 2019-03-27 03:40:51
End at: 2019-03-27 03:41:21
Local clock offset: 2.884 ms
Remote clock offset: -35.132 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 247.83 Mbit/s
95th percentile per-packet one-way delay: 76.399 ms
Loss rate: 10.66%
-- Flow 1:
Average throughput: 216.80 Mbit/s
95th percentile per-packet one-way delay: 77.220 ms
Loss rate: 9.72%
-- Flow 2:
Average throughput: 45.64 Mbit/s
95th percentile per-packet one-way delay: 71.475 ms
Loss rate: 16.87%
-- Flow 3:
Average throughput: 1.90 Mbit/s
95th percentile per-packet one-way delay: 71.435 ms
Loss rate: 8.30%

Run 5: Report of TCP BBR — Data Link

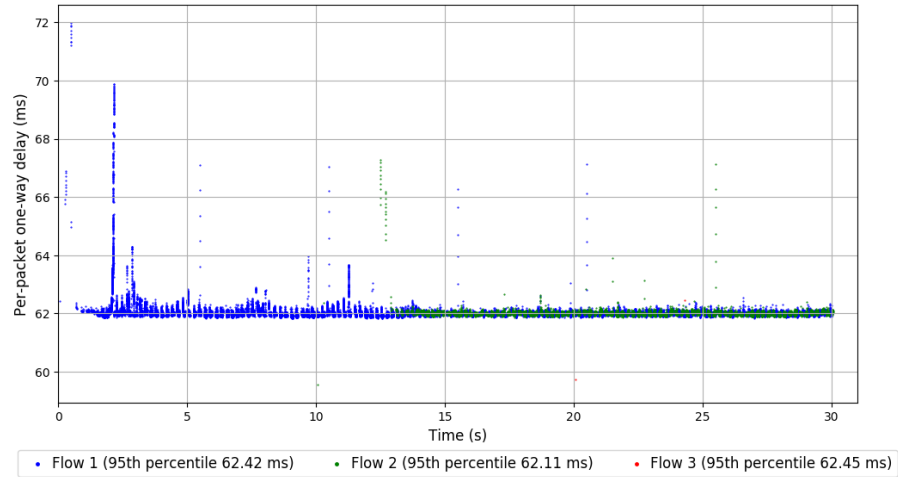
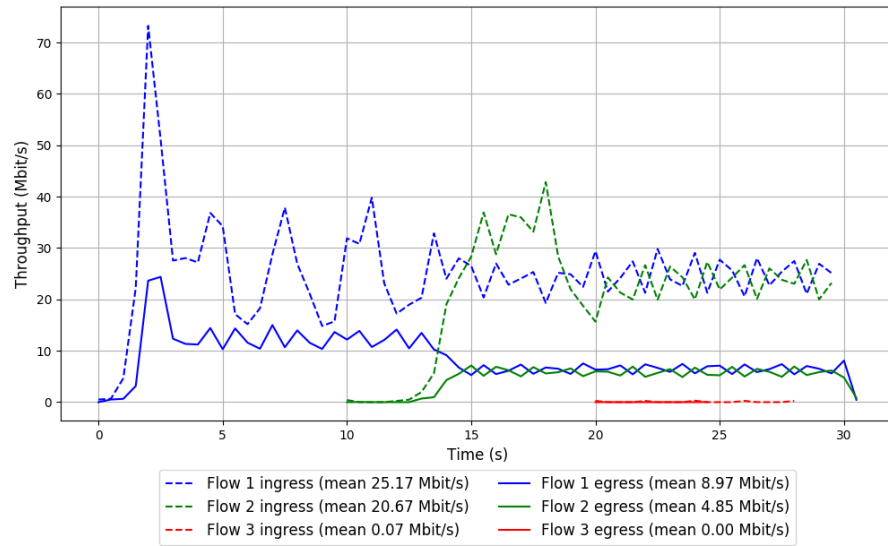


Run 1: Statistics of Copa

Start at: 2019-03-27 01:23:54
End at: 2019-03-27 01:24:24
Local clock offset: 5.035 ms
Remote clock offset: -41.354 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 62.329 ms
Loss rate: 68.68%
-- Flow 1:
Average throughput: 8.97 Mbit/s
95th percentile per-packet one-way delay: 62.419 ms
Loss rate: 64.36%
-- Flow 2:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 62.111 ms
Loss rate: 76.53%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 62.455 ms
Loss rate: 97.92%

Run 1: Report of Copa — Data Link

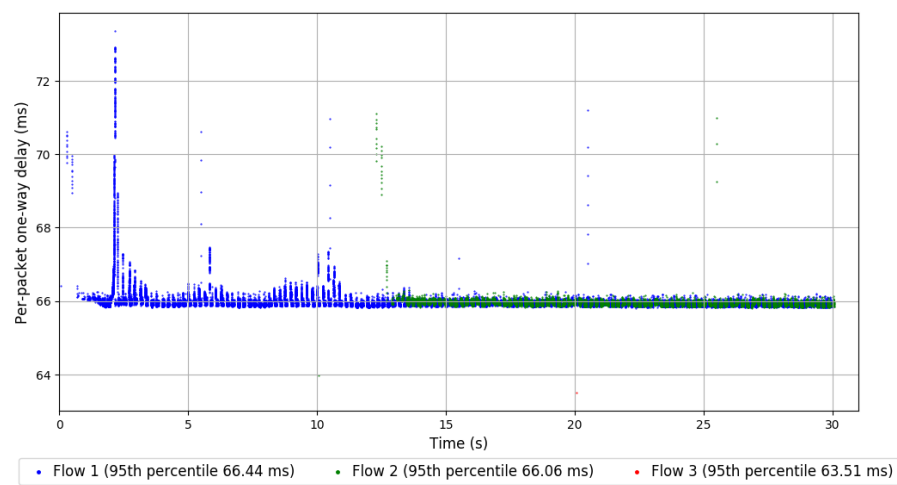
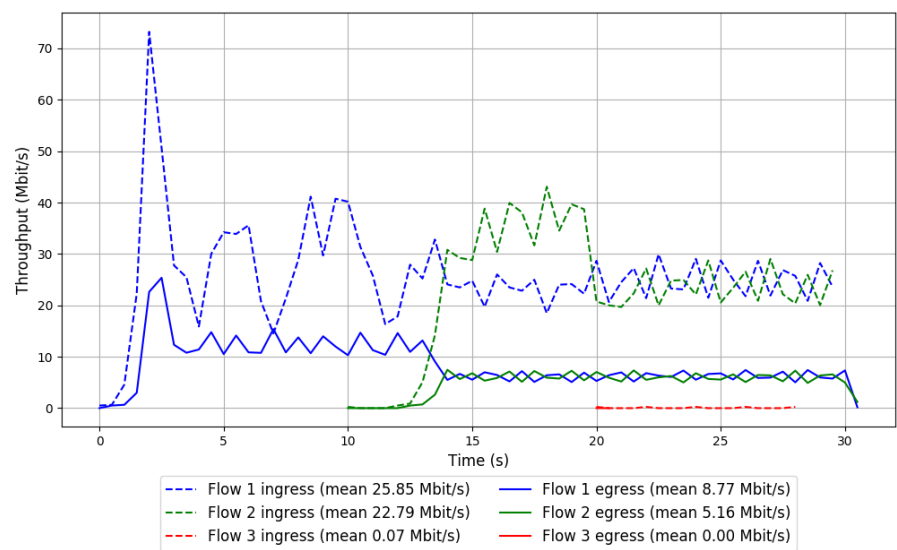


Run 2: Statistics of Copa

Start at: 2019-03-27 02:05:33
End at: 2019-03-27 02:06:03
Local clock offset: 0.863 ms
Remote clock offset: -35.122 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 66.319 ms
Loss rate: 70.28%
-- Flow 1:
Average throughput: 8.77 Mbit/s
95th percentile per-packet one-way delay: 66.445 ms
Loss rate: 66.08%
-- Flow 2:
Average throughput: 5.16 Mbit/s
95th percentile per-packet one-way delay: 66.060 ms
Loss rate: 77.38%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 63.507 ms
Loss rate: 99.83%

Run 2: Report of Copa — Data Link

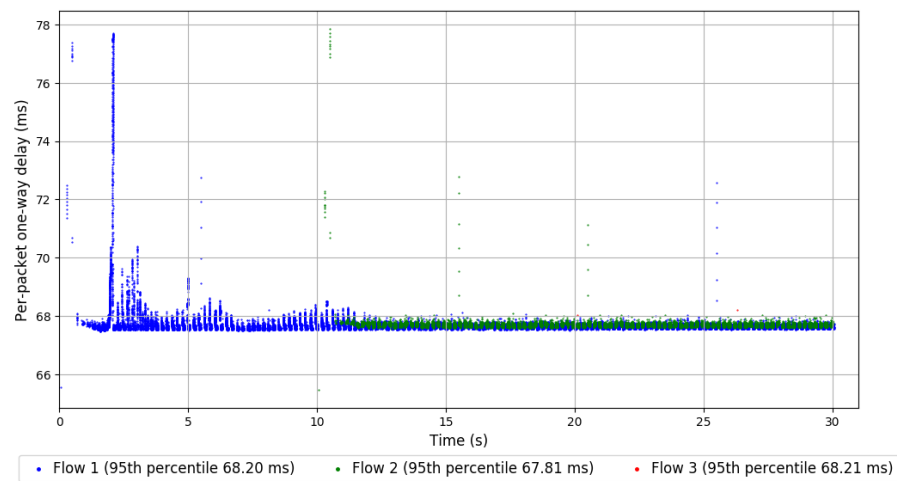
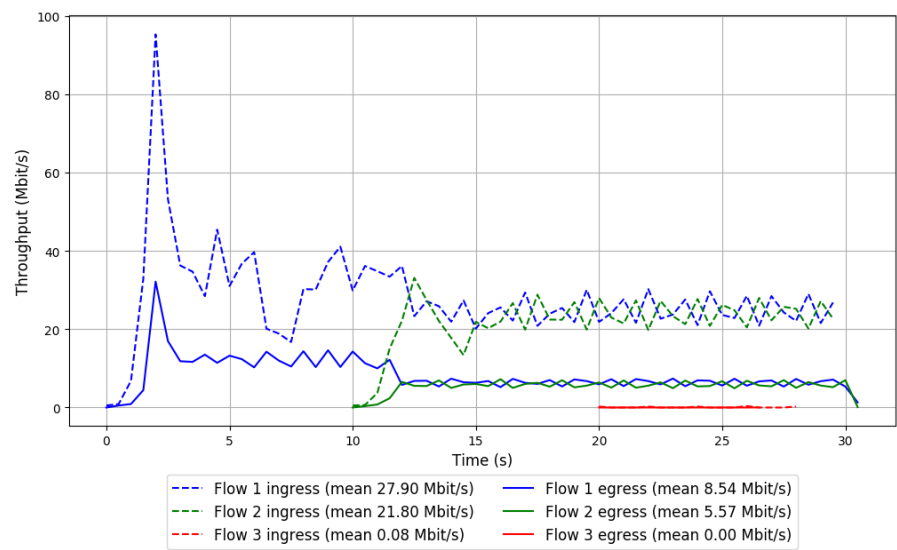


Run 3: Statistics of Copa

Start at: 2019-03-27 02:42:08
End at: 2019-03-27 02:42:38
Local clock offset: 3.73 ms
Remote clock offset: -33.749 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.24 Mbit/s
95th percentile per-packet one-way delay: 68.049 ms
Loss rate: 71.15%
-- Flow 1:
Average throughput: 8.54 Mbit/s
95th percentile per-packet one-way delay: 68.203 ms
Loss rate: 69.40%
-- Flow 2:
Average throughput: 5.57 Mbit/s
95th percentile per-packet one-way delay: 67.811 ms
Loss rate: 74.47%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 68.210 ms
Loss rate: 98.03%

Run 3: Report of Copa — Data Link

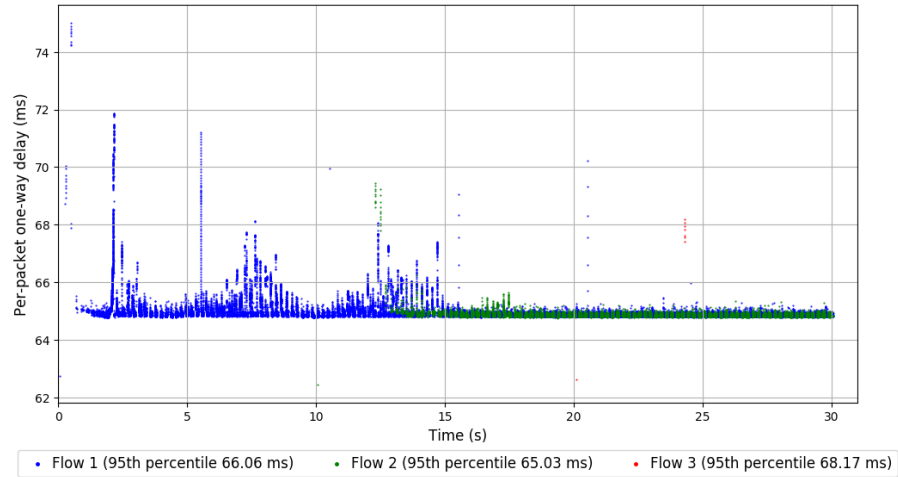
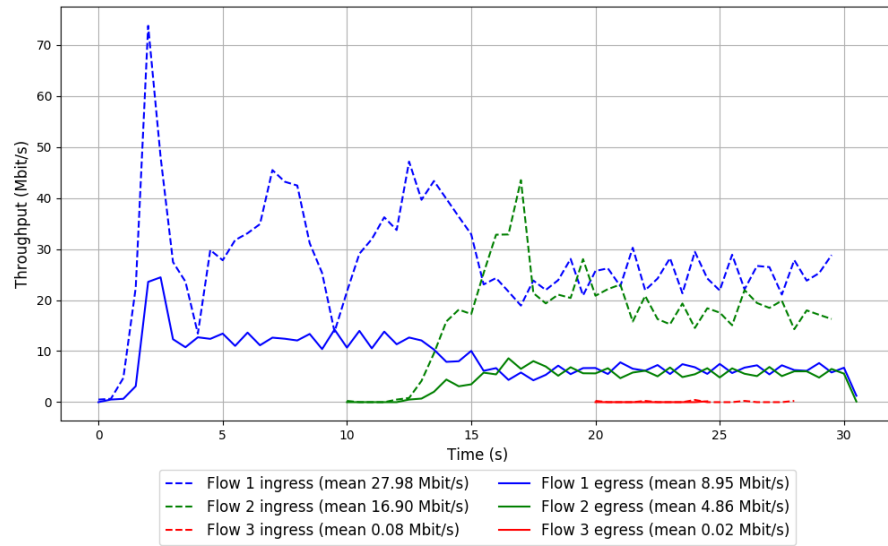


Run 4: Statistics of Copa

Start at: 2019-03-27 03:12:40
End at: 2019-03-27 03:13:10
Local clock offset: -0.452 ms
Remote clock offset: -36.449 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.19 Mbit/s
95th percentile per-packet one-way delay: 65.876 ms
Loss rate: 68.95%
-- Flow 1:
Average throughput: 8.95 Mbit/s
95th percentile per-packet one-way delay: 66.063 ms
Loss rate: 68.01%
-- Flow 2:
Average throughput: 4.86 Mbit/s
95th percentile per-packet one-way delay: 65.029 ms
Loss rate: 71.24%
-- Flow 3:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 68.175 ms
Loss rate: 87.80%

Run 4: Report of Copa — Data Link

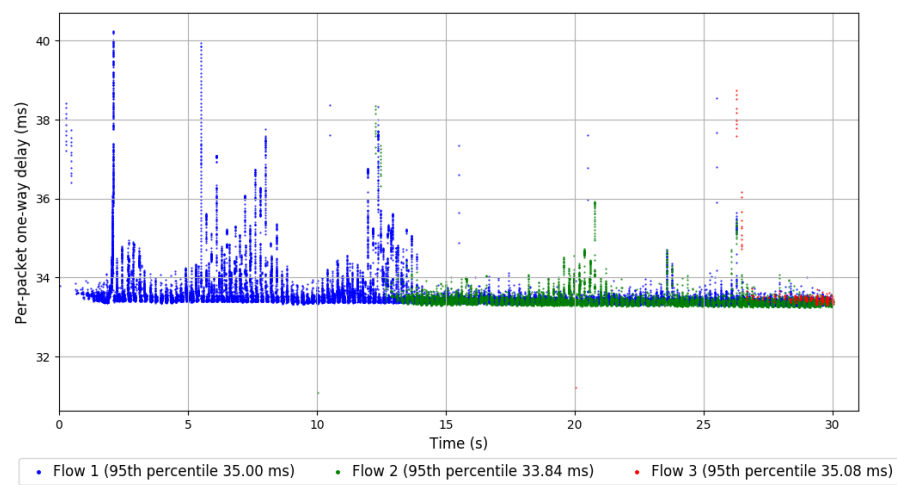
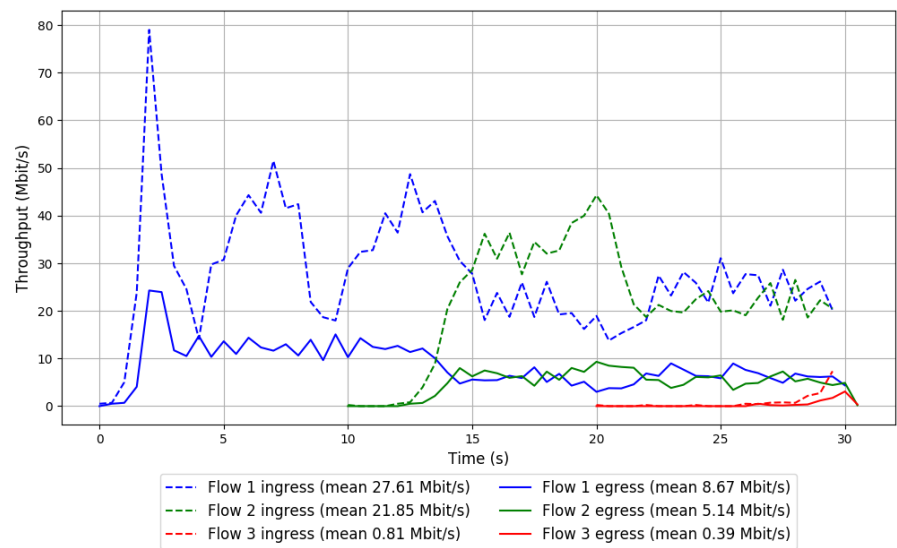


Run 5: Statistics of Copa

Start at: 2019-03-27 03:54:16
End at: 2019-03-27 03:54:46
Local clock offset: 35.482 ms
Remote clock offset: -33.573 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 34.662 ms
Loss rate: 71.19%
-- Flow 1:
Average throughput: 8.67 Mbit/s
95th percentile per-packet one-way delay: 35.000 ms
Loss rate: 68.59%
-- Flow 2:
Average throughput: 5.14 Mbit/s
95th percentile per-packet one-way delay: 33.839 ms
Loss rate: 76.49%
-- Flow 3:
Average throughput: 0.39 Mbit/s
95th percentile per-packet one-way delay: 35.075 ms
Loss rate: 51.11%

Run 5: Report of Copa — Data Link

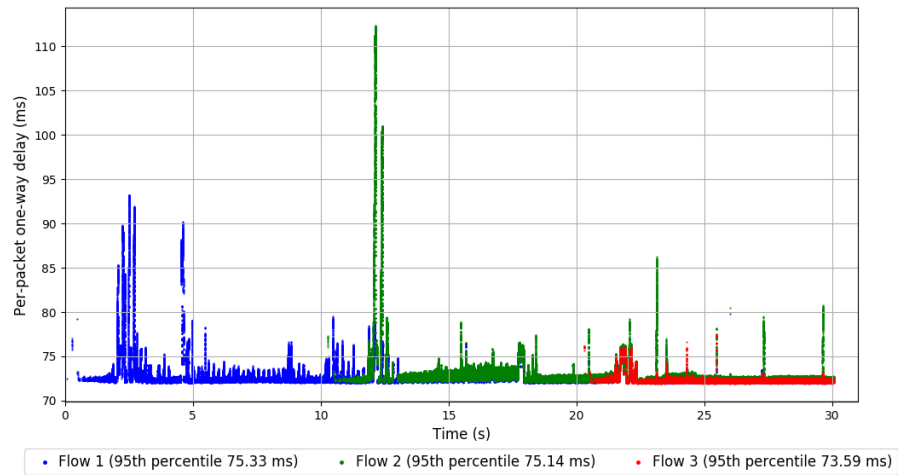
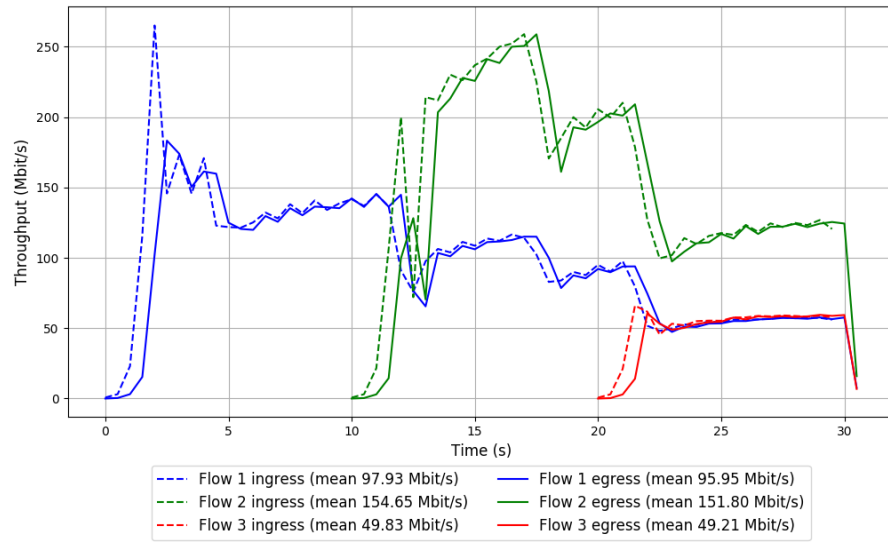


Run 1: Statistics of TCP Cubic

Start at: 2019-03-27 01:39:27
End at: 2019-03-27 01:39:57
Local clock offset: 5.203 ms
Remote clock offset: -30.197 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.44 Mbit/s
95th percentile per-packet one-way delay: 75.195 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 95.95 Mbit/s
95th percentile per-packet one-way delay: 75.328 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 151.80 Mbit/s
95th percentile per-packet one-way delay: 75.143 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 49.21 Mbit/s
95th percentile per-packet one-way delay: 73.588 ms
Loss rate: 1.24%

Run 1: Report of TCP Cubic — Data Link

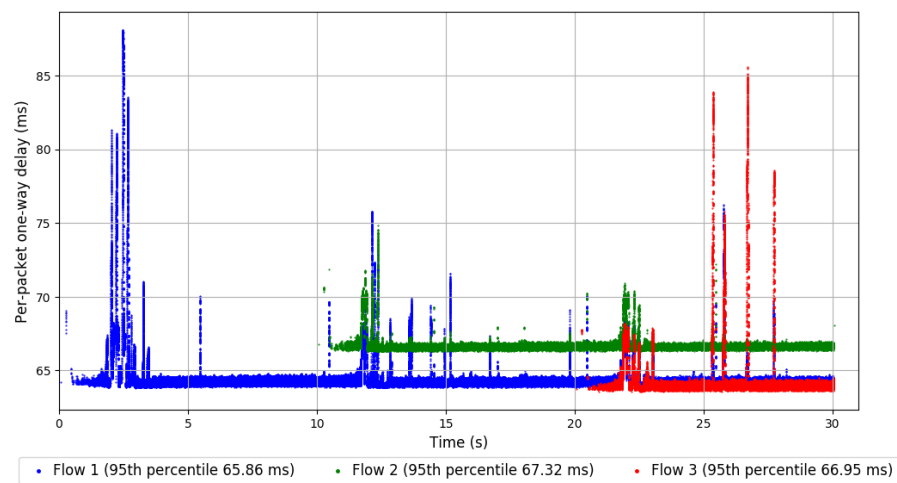
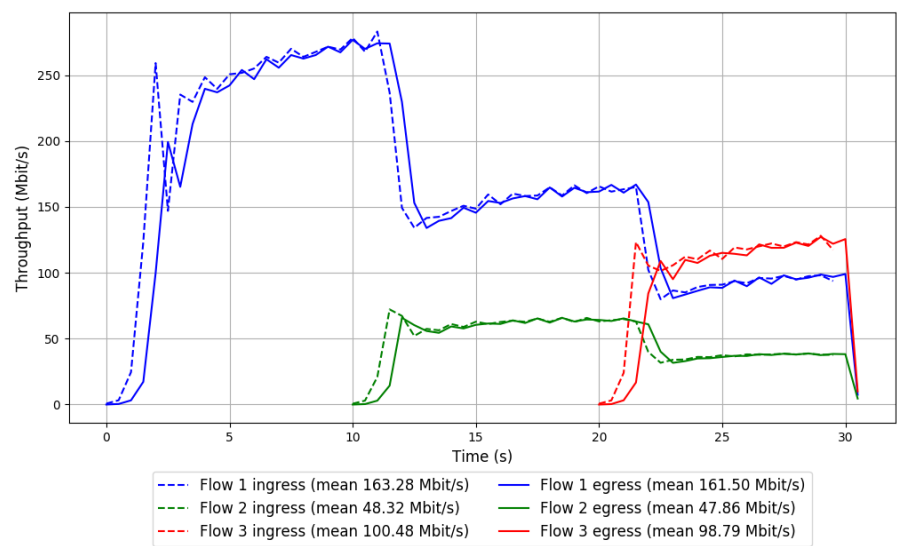


Run 2: Statistics of TCP Cubic

Start at: 2019-03-27 02:21:37
End at: 2019-03-27 02:22:07
Local clock offset: 1.853 ms
Remote clock offset: -34.833 ms

Below is generated by plot.py at 2019-03-27 04:18:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.18 Mbit/s
95th percentile per-packet one-way delay: 66.818 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 161.50 Mbit/s
95th percentile per-packet one-way delay: 65.859 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 47.86 Mbit/s
95th percentile per-packet one-way delay: 67.321 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 98.79 Mbit/s
95th percentile per-packet one-way delay: 66.952 ms
Loss rate: 1.68%

Run 2: Report of TCP Cubic — Data Link

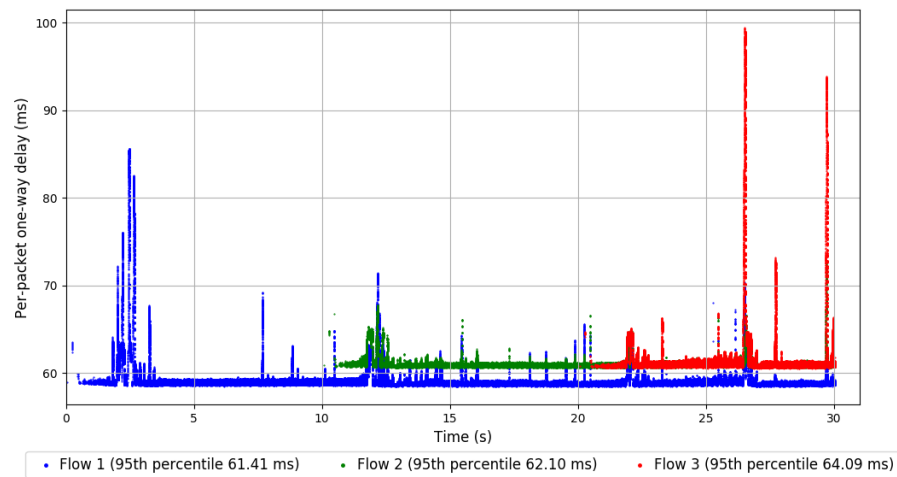
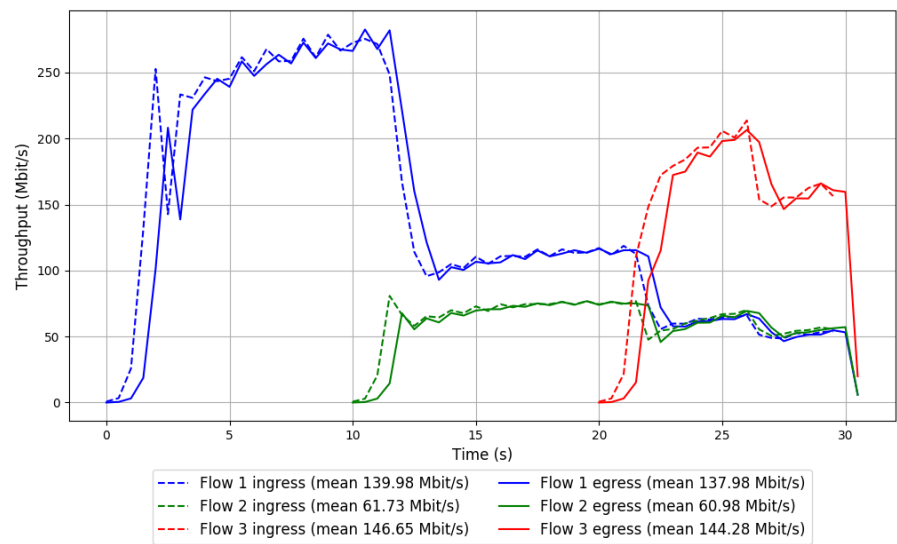


Run 3: Statistics of TCP Cubic

Start at: 2019-03-27 02:57:48
End at: 2019-03-27 02:58:18
Local clock offset: 0.904 ms
Remote clock offset: -40.455 ms

Below is generated by plot.py at 2019-03-27 04:18:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 226.56 Mbit/s
95th percentile per-packet one-way delay: 62.050 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 137.98 Mbit/s
95th percentile per-packet one-way delay: 61.413 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 60.98 Mbit/s
95th percentile per-packet one-way delay: 62.104 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 144.28 Mbit/s
95th percentile per-packet one-way delay: 64.087 ms
Loss rate: 1.61%

Run 3: Report of TCP Cubic — Data Link

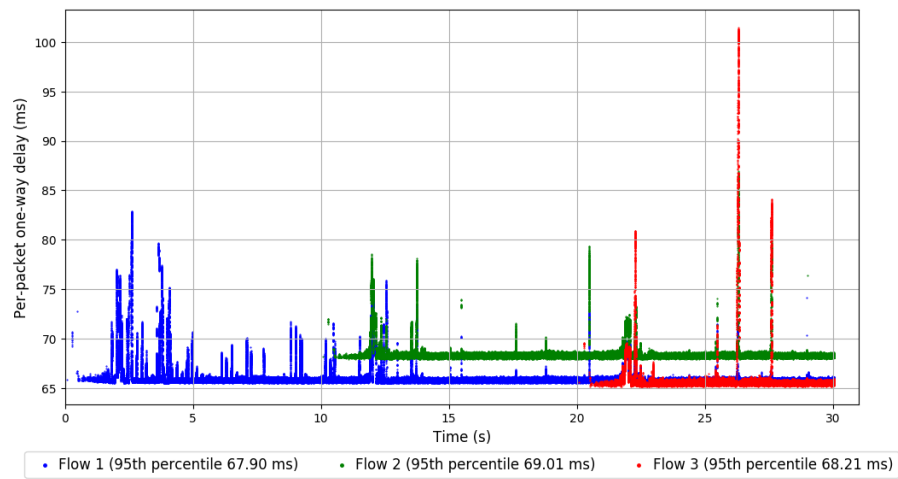
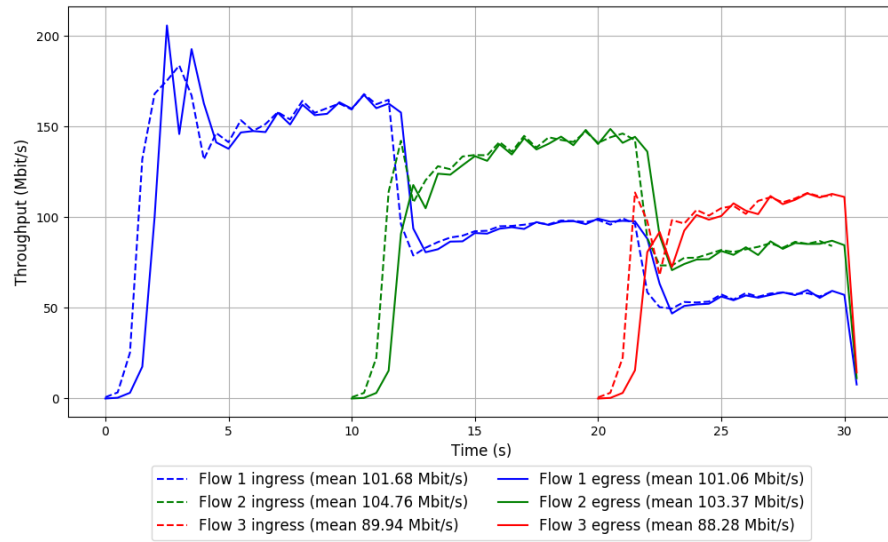


Run 4: Statistics of TCP Cubic

Start at: 2019-03-27 03:39:23
End at: 2019-03-27 03:39:53
Local clock offset: 2.506 ms
Remote clock offset: -35.045 ms

Below is generated by plot.py at 2019-03-27 04:20:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 199.26 Mbit/s
95th percentile per-packet one-way delay: 68.631 ms
Loss rate: 1.04%
-- Flow 1:
Average throughput: 101.06 Mbit/s
95th percentile per-packet one-way delay: 67.897 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 103.37 Mbit/s
95th percentile per-packet one-way delay: 69.009 ms
Loss rate: 1.33%
-- Flow 3:
Average throughput: 88.28 Mbit/s
95th percentile per-packet one-way delay: 68.207 ms
Loss rate: 1.84%

Run 4: Report of TCP Cubic — Data Link

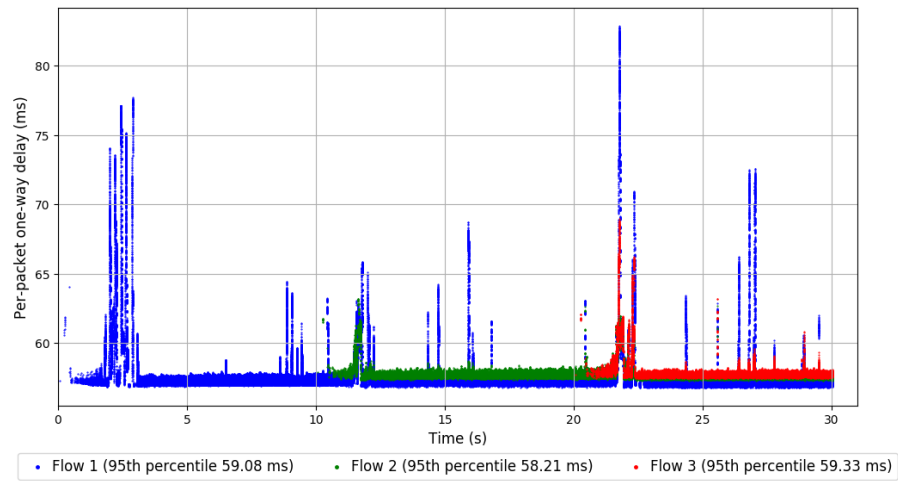
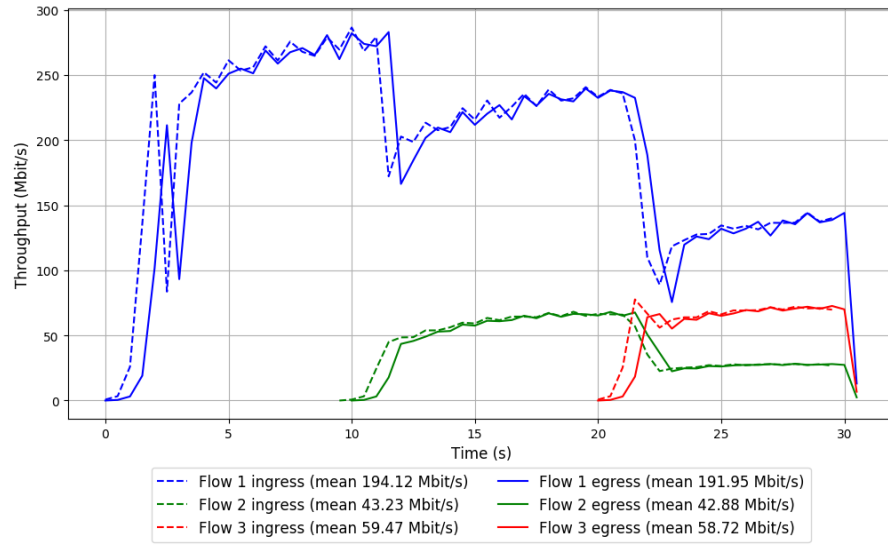


Run 5: Statistics of TCP Cubic

Start at: 2019-03-27 04:10:49
End at: 2019-03-27 04:11:19
Local clock offset: -1.338 ms
Remote clock offset: -41.621 ms

Below is generated by plot.py at 2019-03-27 04:20:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 240.08 Mbit/s
95th percentile per-packet one-way delay: 58.929 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 191.95 Mbit/s
95th percentile per-packet one-way delay: 59.081 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 42.88 Mbit/s
95th percentile per-packet one-way delay: 58.213 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 58.72 Mbit/s
95th percentile per-packet one-way delay: 59.327 ms
Loss rate: 1.26%

Run 5: Report of TCP Cubic — Data Link

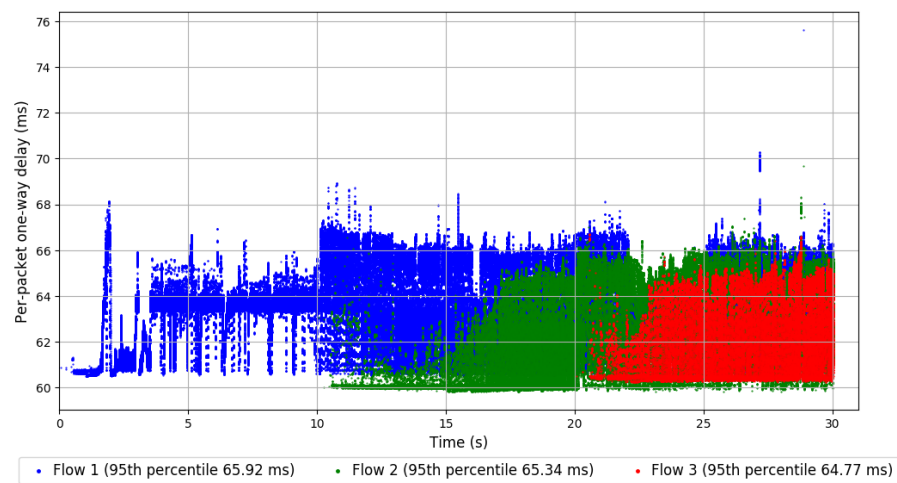
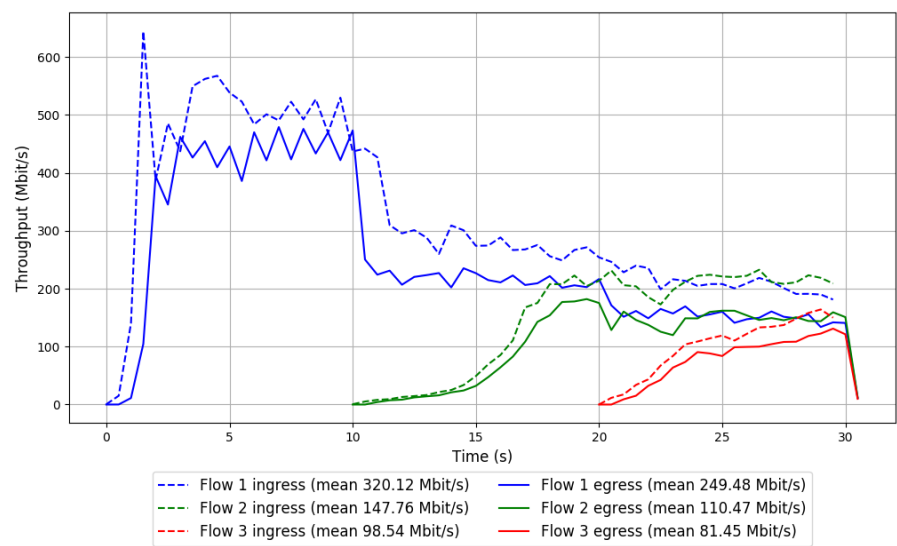


Run 1: Statistics of FillP

Start at: 2019-03-27 01:19:32
End at: 2019-03-27 01:20:02
Local clock offset: 5.121 ms
Remote clock offset: -40.458 ms

Below is generated by plot.py at 2019-03-27 04:23:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 349.86 Mbit/s
95th percentile per-packet one-way delay: 65.728 ms
Loss rate: 22.42%
-- Flow 1:
Average throughput: 249.48 Mbit/s
95th percentile per-packet one-way delay: 65.924 ms
Loss rate: 22.07%
-- Flow 2:
Average throughput: 110.47 Mbit/s
95th percentile per-packet one-way delay: 65.343 ms
Loss rate: 25.24%
-- Flow 3:
Average throughput: 81.45 Mbit/s
95th percentile per-packet one-way delay: 64.772 ms
Loss rate: 17.34%

Run 1: Report of FillP — Data Link

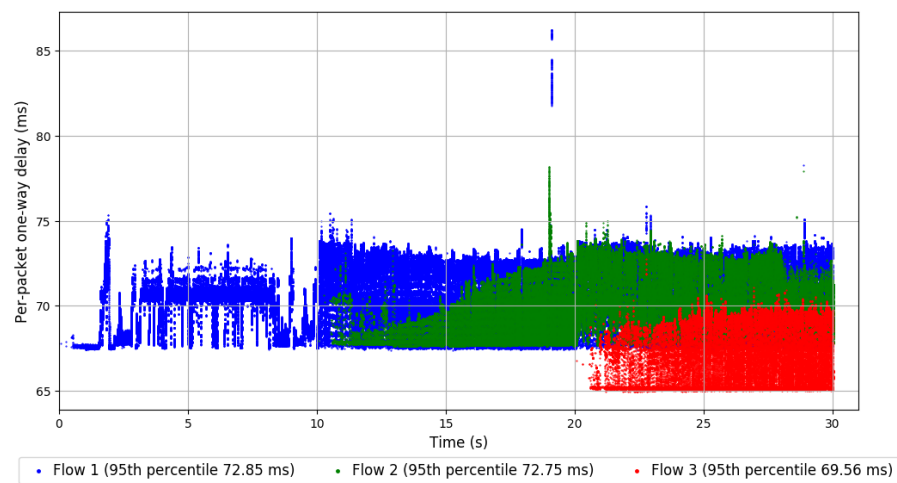
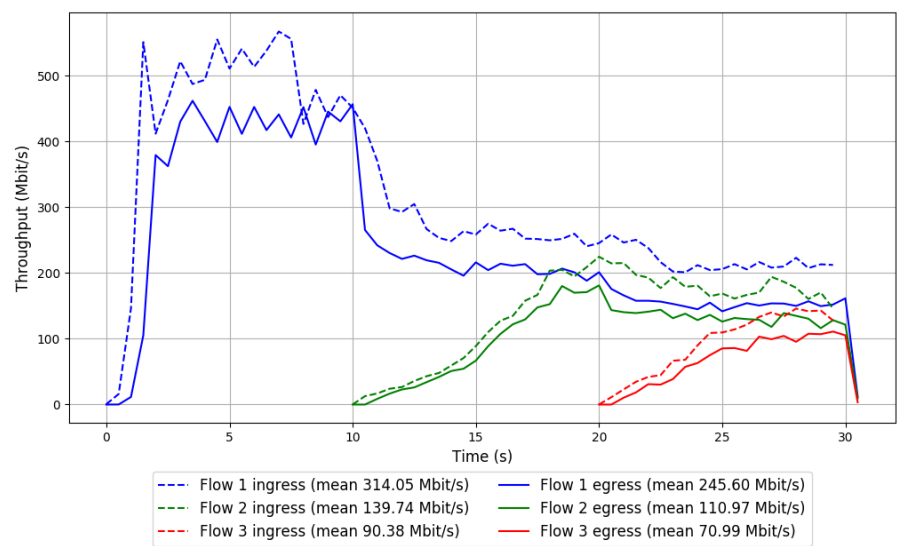


Run 2: Statistics of FillP

Start at: 2019-03-27 02:01:12
End at: 2019-03-27 02:01:42
Local clock offset: 0.074 ms
Remote clock offset: -34.563 ms

Below is generated by plot.py at 2019-03-27 04:23:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.00 Mbit/s
95th percentile per-packet one-way delay: 72.780 ms
Loss rate: 21.51%
-- Flow 1:
Average throughput: 245.60 Mbit/s
95th percentile per-packet one-way delay: 72.852 ms
Loss rate: 21.79%
-- Flow 2:
Average throughput: 110.97 Mbit/s
95th percentile per-packet one-way delay: 72.752 ms
Loss rate: 20.58%
-- Flow 3:
Average throughput: 70.99 Mbit/s
95th percentile per-packet one-way delay: 69.556 ms
Loss rate: 21.46%

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-03-27 02:37:39

End at: 2019-03-27 02:38:09

Local clock offset: 2.274 ms

Remote clock offset: -40.2 ms

Below is generated by plot.py at 2019-03-27 04:23:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 365.16 Mbit/s

95th percentile per-packet one-way delay: 64.689 ms

Loss rate: 23.49%

-- Flow 1:

Average throughput: 245.06 Mbit/s

95th percentile per-packet one-way delay: 63.909 ms

Loss rate: 23.07%

-- Flow 2:

Average throughput: 136.82 Mbit/s

95th percentile per-packet one-way delay: 65.352 ms

Loss rate: 24.93%

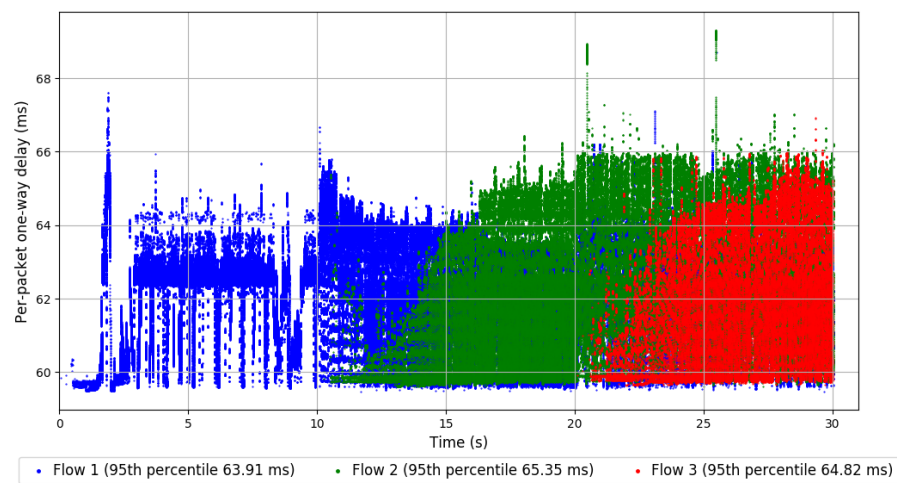
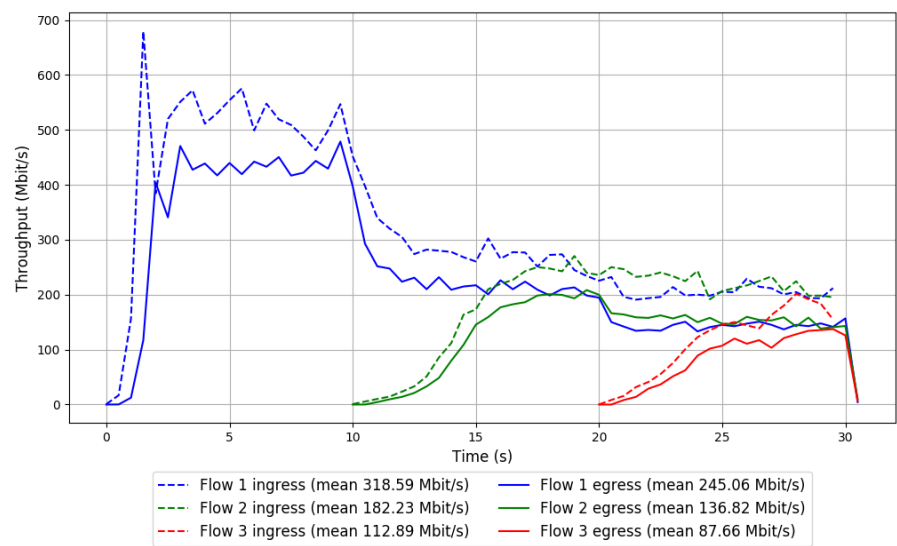
-- Flow 3:

Average throughput: 87.66 Mbit/s

95th percentile per-packet one-way delay: 64.824 ms

Loss rate: 22.35%

Run 3: Report of FillP — Data Link

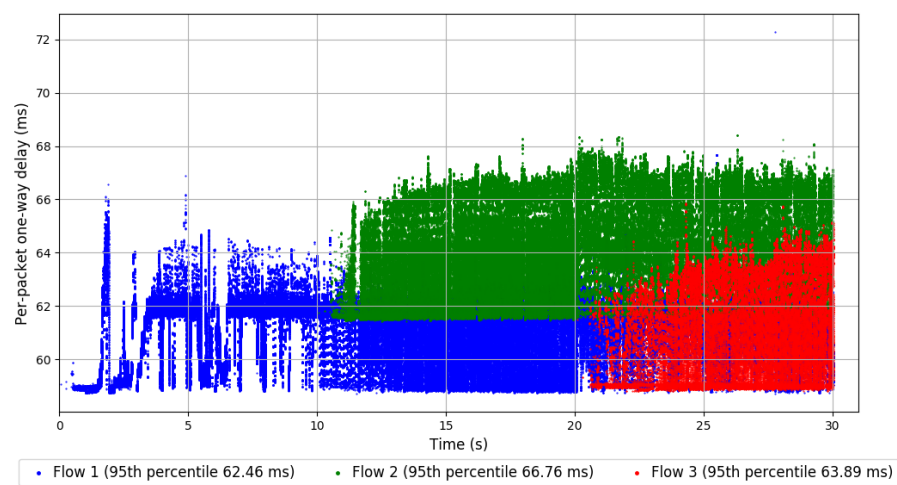
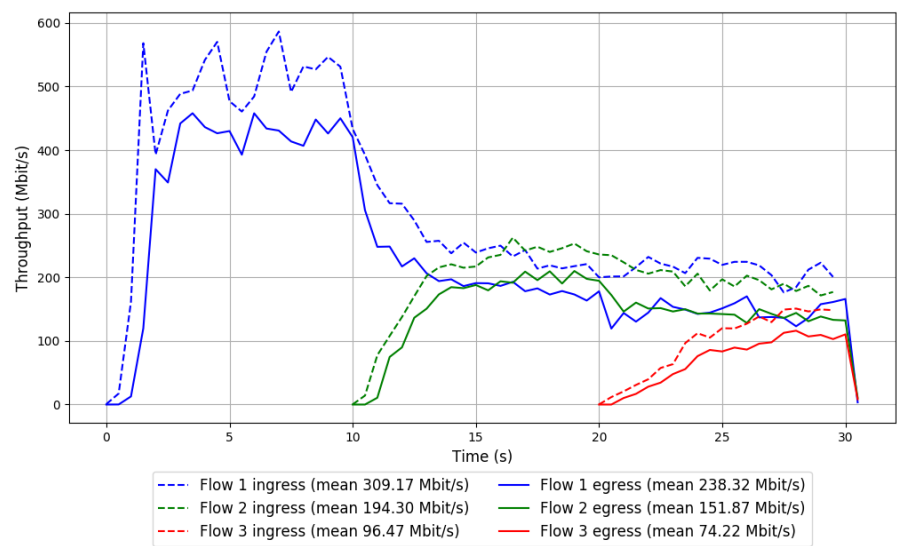


Run 4: Statistics of FillP

Start at: 2019-03-27 03:08:21
End at: 2019-03-27 03:08:51
Local clock offset: -0.701 ms
Remote clock offset: -40.135 ms

Below is generated by plot.py at 2019-03-27 04:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 363.99 Mbit/s
95th percentile per-packet one-way delay: 66.015 ms
Loss rate: 22.63%
-- Flow 1:
Average throughput: 238.32 Mbit/s
95th percentile per-packet one-way delay: 62.460 ms
Loss rate: 22.92%
-- Flow 2:
Average throughput: 151.87 Mbit/s
95th percentile per-packet one-way delay: 66.758 ms
Loss rate: 21.82%
-- Flow 3:
Average throughput: 74.22 Mbit/s
95th percentile per-packet one-way delay: 63.889 ms
Loss rate: 23.07%

Run 4: Report of FillP — Data Link

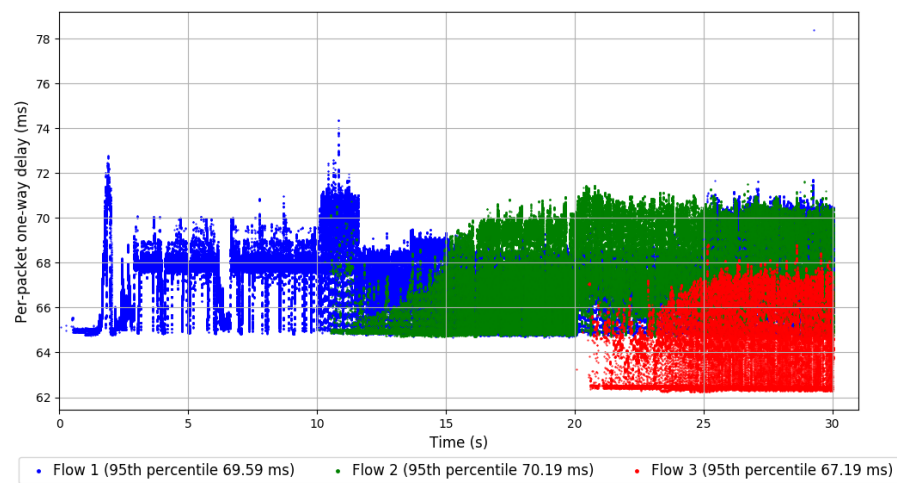
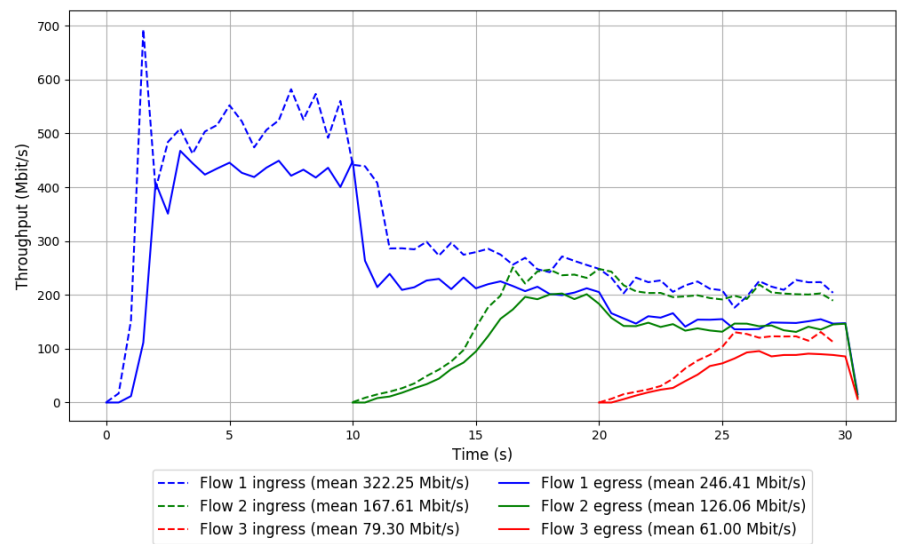


Run 5: Statistics of FillP

Start at: 2019-03-27 03:49:53
End at: 2019-03-27 03:50:23
Local clock offset: 1.775 ms
Remote clock offset: -37.026 ms

Below is generated by plot.py at 2019-03-27 04:23:58
Datalink statistics
-- Total of 3 flows:
Average throughput: 350.58 Mbit/s
95th percentile per-packet one-way delay: 69.875 ms
Loss rate: 23.81%
-- Flow 1:
Average throughput: 246.41 Mbit/s
95th percentile per-packet one-way delay: 69.593 ms
Loss rate: 23.53%
-- Flow 2:
Average throughput: 126.06 Mbit/s
95th percentile per-packet one-way delay: 70.194 ms
Loss rate: 24.79%
-- Flow 3:
Average throughput: 61.00 Mbit/s
95th percentile per-packet one-way delay: 67.193 ms
Loss rate: 23.08%

Run 5: Report of FillP — Data Link



Run 1: Statistics of FillP-Sheep

Start at: 2019-03-27 01:26:39

End at: 2019-03-27 01:27:09

Local clock offset: 5.307 ms

Remote clock offset: -36.367 ms

Below is generated by plot.py at 2019-03-27 04:23:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 322.19 Mbit/s

95th percentile per-packet one-way delay: 70.772 ms

Loss rate: 13.72%

-- Flow 1:

Average throughput: 236.33 Mbit/s

95th percentile per-packet one-way delay: 70.983 ms

Loss rate: 13.96%

-- Flow 2:

Average throughput: 82.00 Mbit/s

95th percentile per-packet one-way delay: 68.179 ms

Loss rate: 12.56%

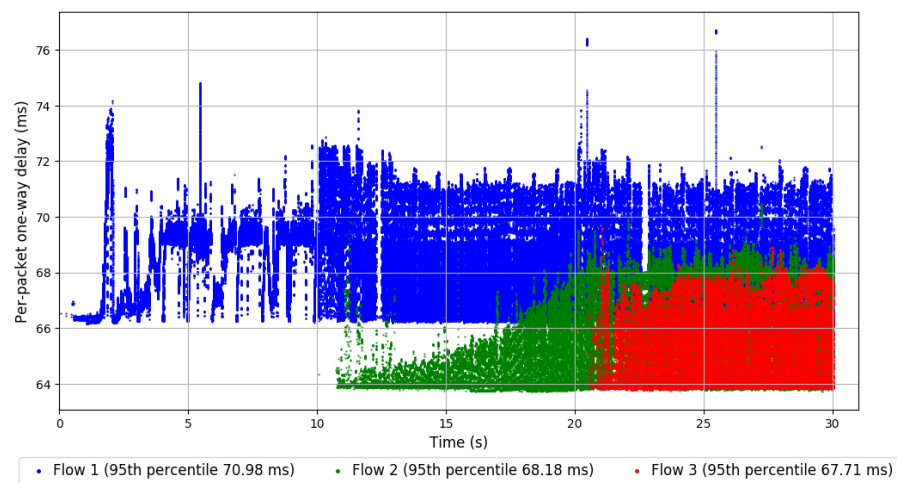
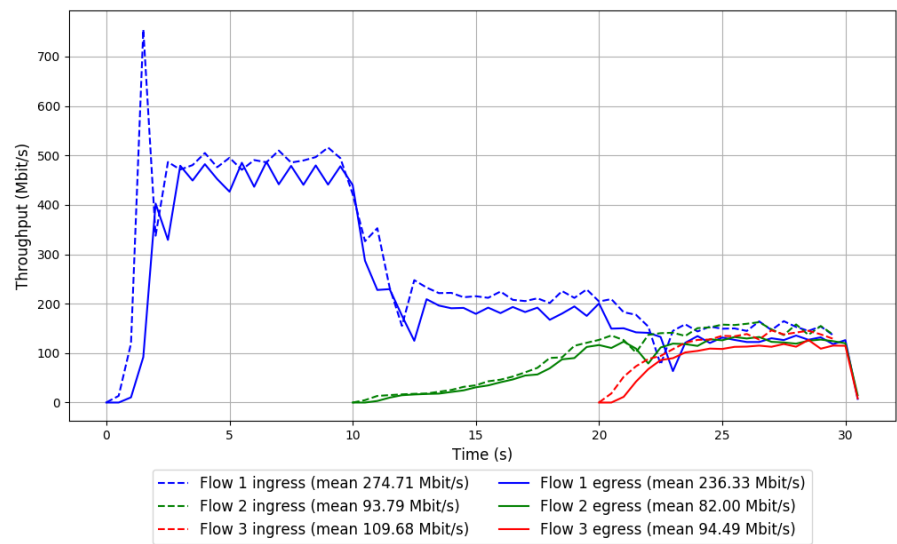
-- Flow 3:

Average throughput: 94.49 Mbit/s

95th percentile per-packet one-way delay: 67.708 ms

Loss rate: 13.87%

Run 1: Report of FillP-Sheep — Data Link

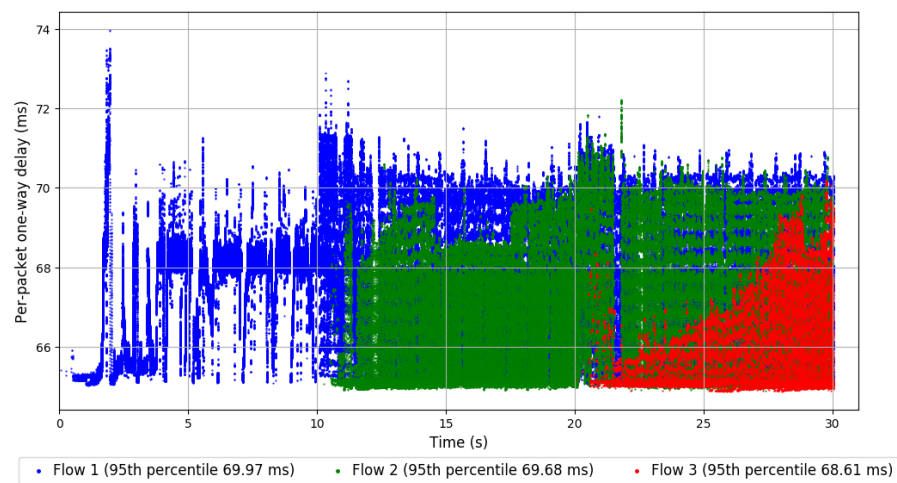
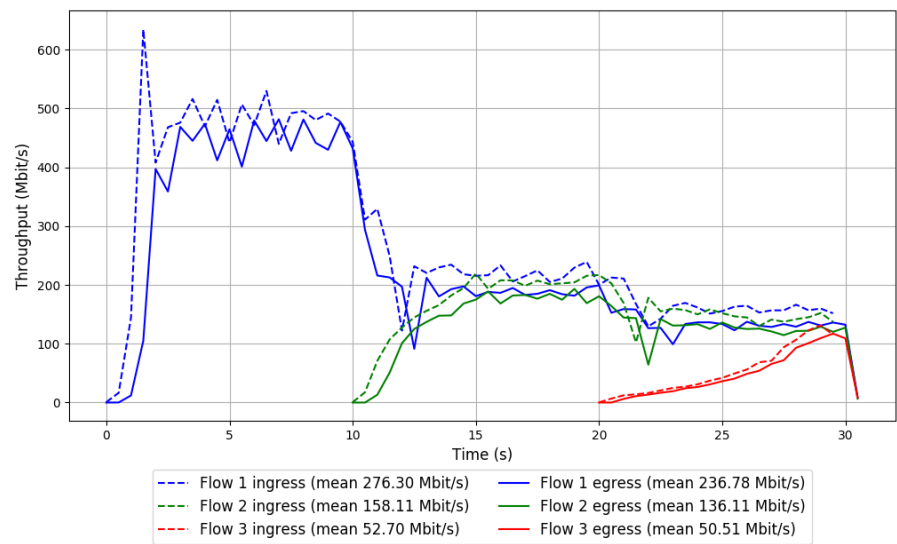


Run 2: Statistics of FillP-Sheep

Start at: 2019-03-27 02:08:43
End at: 2019-03-27 02:09:13
Local clock offset: -0.331 ms
Remote clock offset: -34.18 ms

Below is generated by plot.py at 2019-03-27 04:25:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 344.05 Mbit/s
95th percentile per-packet one-way delay: 69.854 ms
Loss rate: 13.76%
-- Flow 1:
Average throughput: 236.78 Mbit/s
95th percentile per-packet one-way delay: 69.965 ms
Loss rate: 14.30%
-- Flow 2:
Average throughput: 136.11 Mbit/s
95th percentile per-packet one-way delay: 69.684 ms
Loss rate: 13.93%
-- Flow 3:
Average throughput: 50.51 Mbit/s
95th percentile per-packet one-way delay: 68.607 ms
Loss rate: 4.16%

Run 2: Report of FillP-Sheep — Data Link

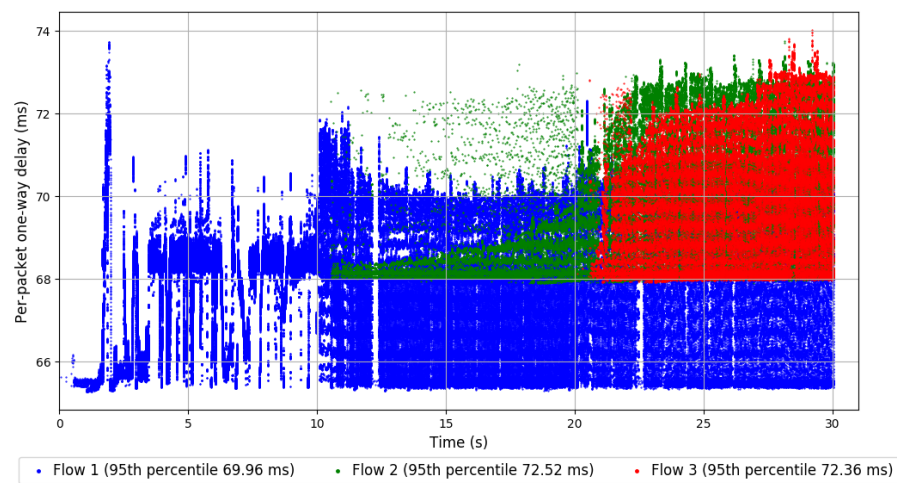
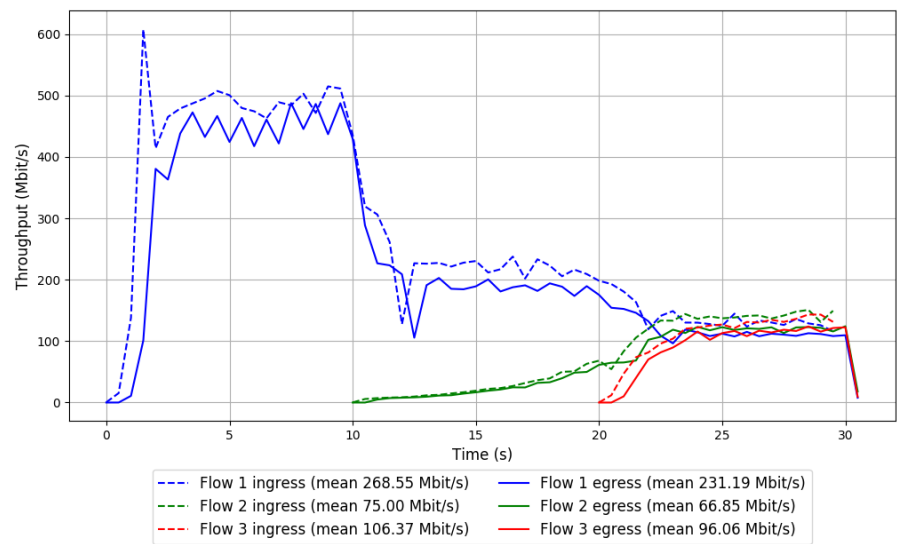


Run 3: Statistics of FillP-Sheep

Start at: 2019-03-27 02:44:57
End at: 2019-03-27 02:45:27
Local clock offset: 3.222 ms
Remote clock offset: -33.733 ms

Below is generated by plot.py at 2019-03-27 04:25:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 307.34 Mbit/s
95th percentile per-packet one-way delay: 71.569 ms
Loss rate: 13.06%
-- Flow 1:
Average throughput: 231.19 Mbit/s
95th percentile per-packet one-way delay: 69.960 ms
Loss rate: 13.91%
-- Flow 2:
Average throughput: 66.85 Mbit/s
95th percentile per-packet one-way delay: 72.518 ms
Loss rate: 10.86%
-- Flow 3:
Average throughput: 96.06 Mbit/s
95th percentile per-packet one-way delay: 72.364 ms
Loss rate: 9.69%

Run 3: Report of FillP-Sheep — Data Link

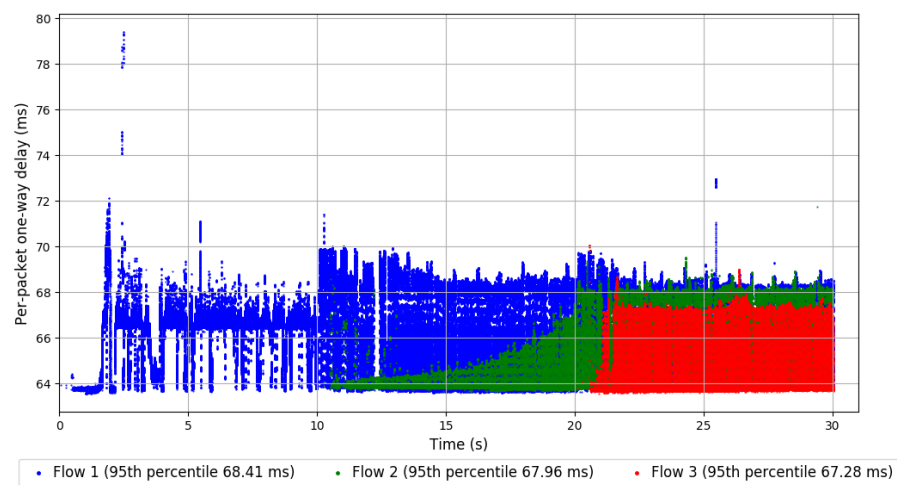
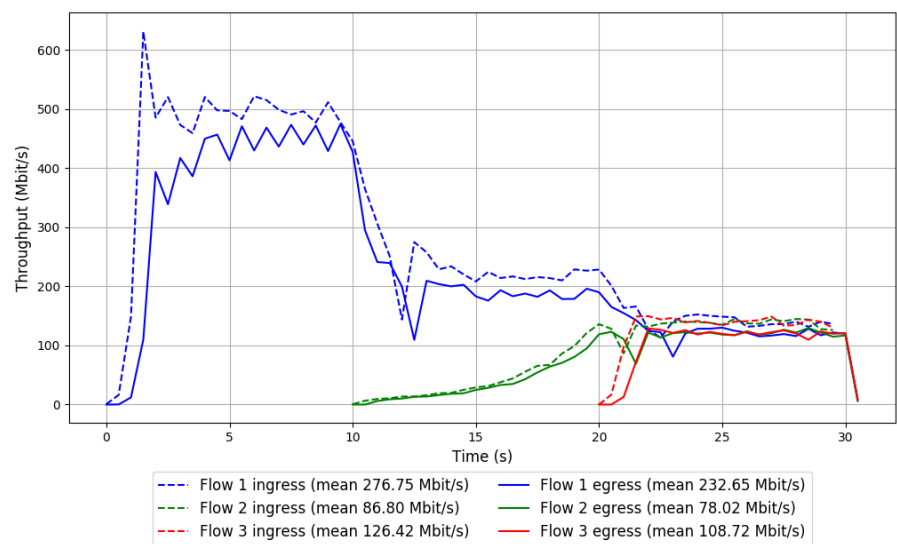


Run 4: Statistics of FillP-Sheep

Start at: 2019-03-27 03:15:25
End at: 2019-03-27 03:15:55
Local clock offset: -5.527 ms
Remote clock offset: -39.756 ms

Below is generated by plot.py at 2019-03-27 04:27:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.55 Mbit/s
95th percentile per-packet one-way delay: 68.226 ms
Loss rate: 14.83%
-- Flow 1:
Average throughput: 232.65 Mbit/s
95th percentile per-packet one-way delay: 68.409 ms
Loss rate: 15.93%
-- Flow 2:
Average throughput: 78.02 Mbit/s
95th percentile per-packet one-way delay: 67.963 ms
Loss rate: 10.13%
-- Flow 3:
Average throughput: 108.72 Mbit/s
95th percentile per-packet one-way delay: 67.276 ms
Loss rate: 14.00%

Run 4: Report of FillP-Sheep — Data Link

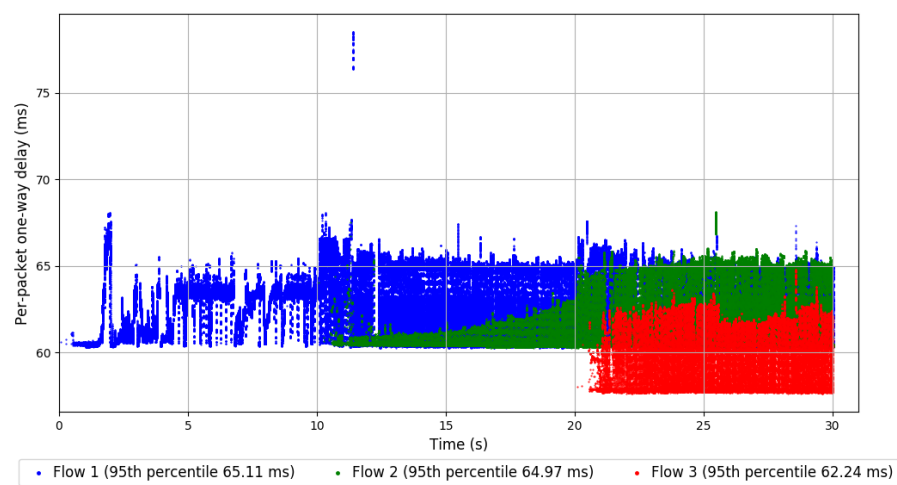
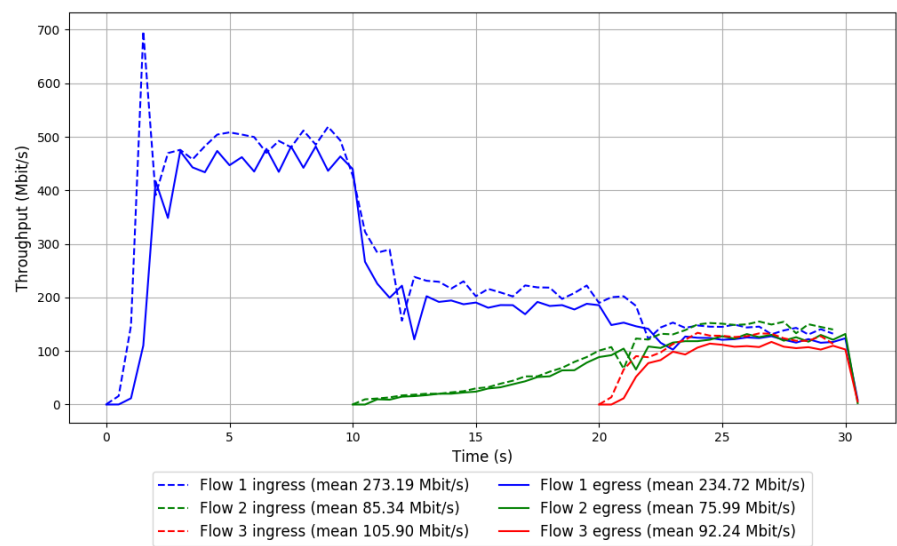


Run 5: Statistics of FillP-Sheep

Start at: 2019-03-27 03:57:14
End at: 2019-03-27 03:57:44
Local clock offset: 0.771 ms
Remote clock offset: -40.464 ms

Below is generated by plot.py at 2019-03-27 04:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.82 Mbit/s
95th percentile per-packet one-way delay: 65.002 ms
Loss rate: 13.49%
-- Flow 1:
Average throughput: 234.72 Mbit/s
95th percentile per-packet one-way delay: 65.110 ms
Loss rate: 14.08%
-- Flow 2:
Average throughput: 75.99 Mbit/s
95th percentile per-packet one-way delay: 64.970 ms
Loss rate: 11.03%
-- Flow 3:
Average throughput: 92.24 Mbit/s
95th percentile per-packet one-way delay: 62.242 ms
Loss rate: 12.90%

Run 5: Report of FillP-Sheep — Data Link

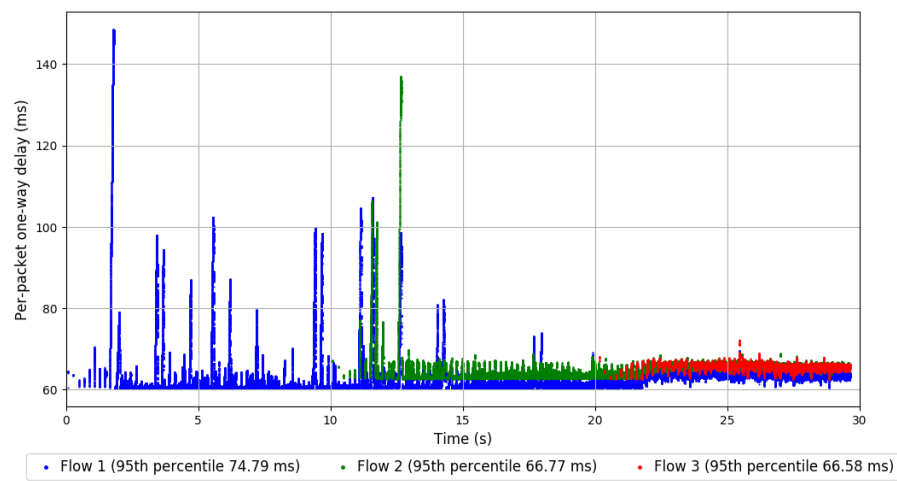
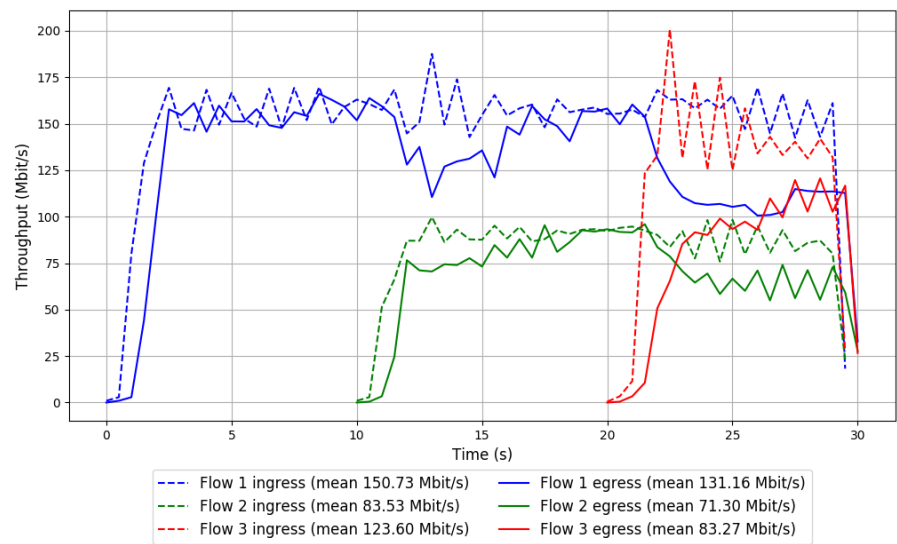


Run 1: Statistics of Indigo

Start at: 2019-03-27 01:17:51
End at: 2019-03-27 01:18:21
Local clock offset: 5.029 ms
Remote clock offset: -41.173 ms

Below is generated by plot.py at 2019-03-27 04:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 204.95 Mbit/s
95th percentile per-packet one-way delay: 68.054 ms
Loss rate: 16.52%
-- Flow 1:
Average throughput: 131.16 Mbit/s
95th percentile per-packet one-way delay: 74.787 ms
Loss rate: 12.98%
-- Flow 2:
Average throughput: 71.30 Mbit/s
95th percentile per-packet one-way delay: 66.773 ms
Loss rate: 14.64%
-- Flow 3:
Average throughput: 83.27 Mbit/s
95th percentile per-packet one-way delay: 66.582 ms
Loss rate: 32.64%

Run 1: Report of Indigo — Data Link

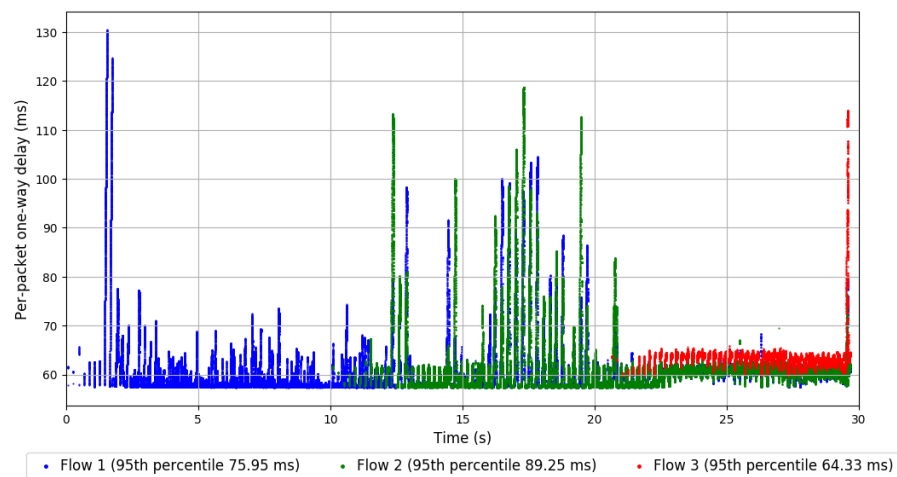
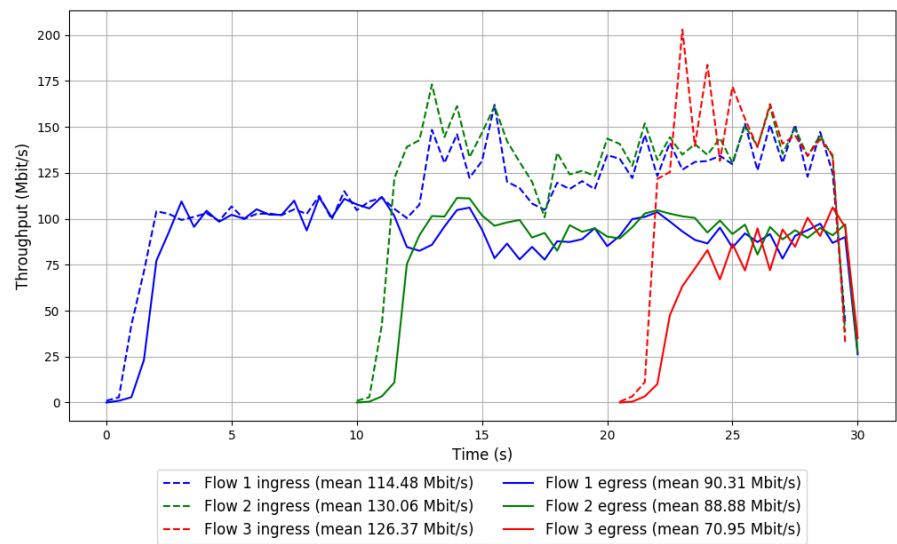


Run 2: Statistics of Indigo

Start at: 2019-03-27 01:59:41
End at: 2019-03-27 02:00:11
Local clock offset: 1.795 ms
Remote clock offset: -40.727 ms

Below is generated by plot.py at 2019-03-27 04:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 170.61 Mbit/s
95th percentile per-packet one-way delay: 79.190 ms
Loss rate: 28.57%
-- Flow 1:
Average throughput: 90.31 Mbit/s
95th percentile per-packet one-way delay: 75.953 ms
Loss rate: 21.10%
-- Flow 2:
Average throughput: 88.88 Mbit/s
95th percentile per-packet one-way delay: 89.253 ms
Loss rate: 31.66%
-- Flow 3:
Average throughput: 70.95 Mbit/s
95th percentile per-packet one-way delay: 64.331 ms
Loss rate: 43.86%

Run 2: Report of Indigo — Data Link

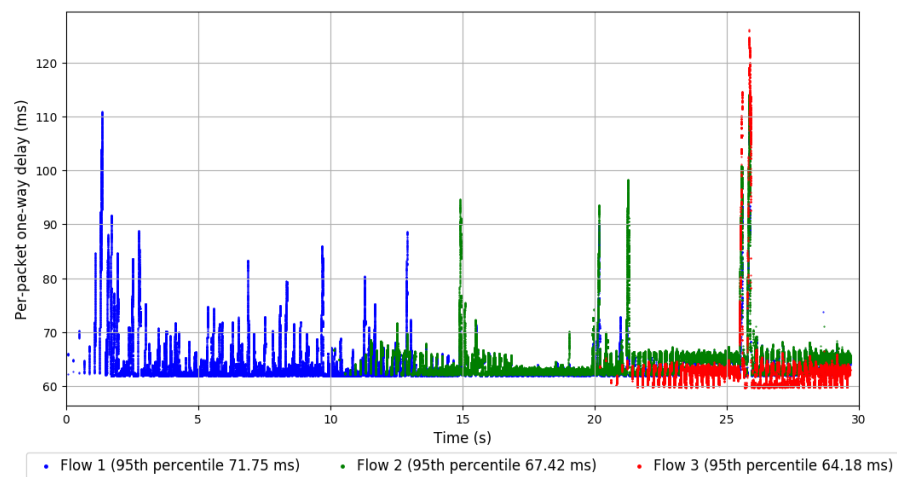
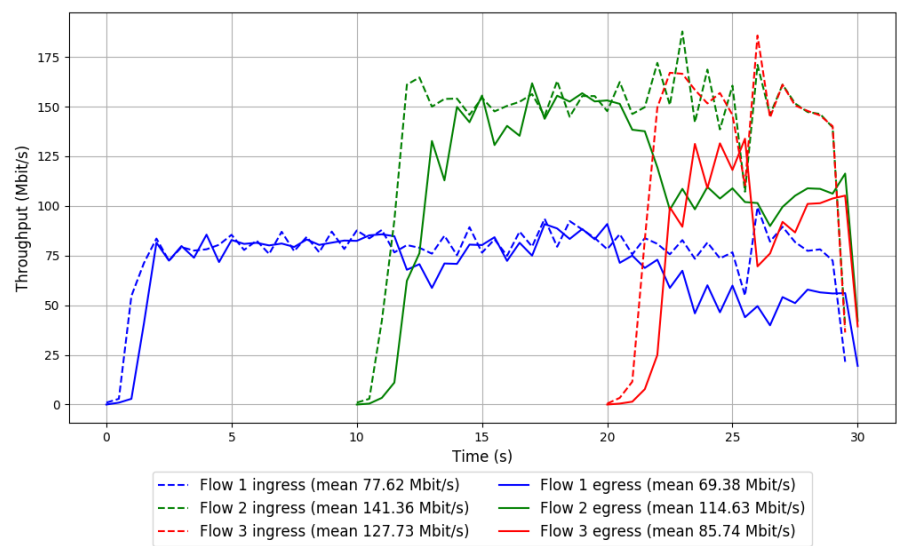


Run 3: Statistics of Indigo

Start at: 2019-03-27 02:30:43
End at: 2019-03-27 02:31:13
Local clock offset: 2.554 ms
Remote clock offset: -39.733 ms

Below is generated by plot.py at 2019-03-27 04:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 172.44 Mbit/s
95th percentile per-packet one-way delay: 68.919 ms
Loss rate: 18.56%
-- Flow 1:
Average throughput: 69.38 Mbit/s
95th percentile per-packet one-way delay: 71.745 ms
Loss rate: 10.60%
-- Flow 2:
Average throughput: 114.63 Mbit/s
95th percentile per-packet one-way delay: 67.423 ms
Loss rate: 18.92%
-- Flow 3:
Average throughput: 85.74 Mbit/s
95th percentile per-packet one-way delay: 64.183 ms
Loss rate: 32.88%

Run 3: Report of Indigo — Data Link

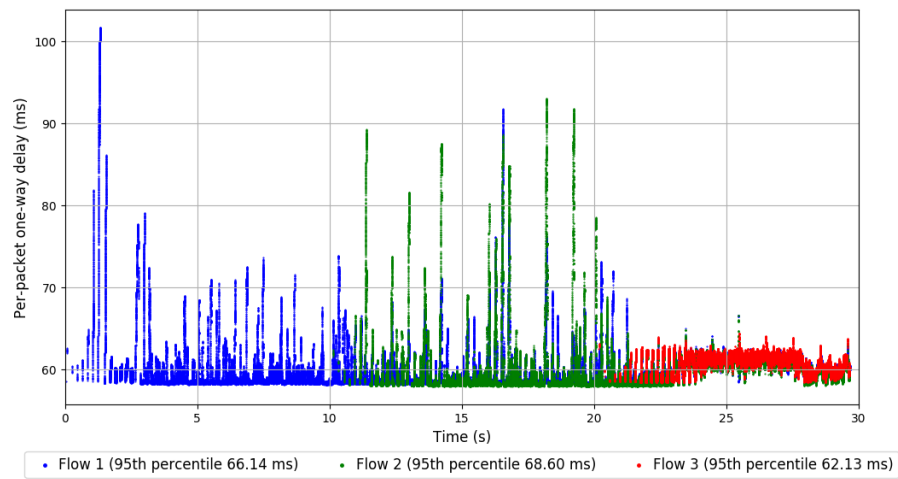
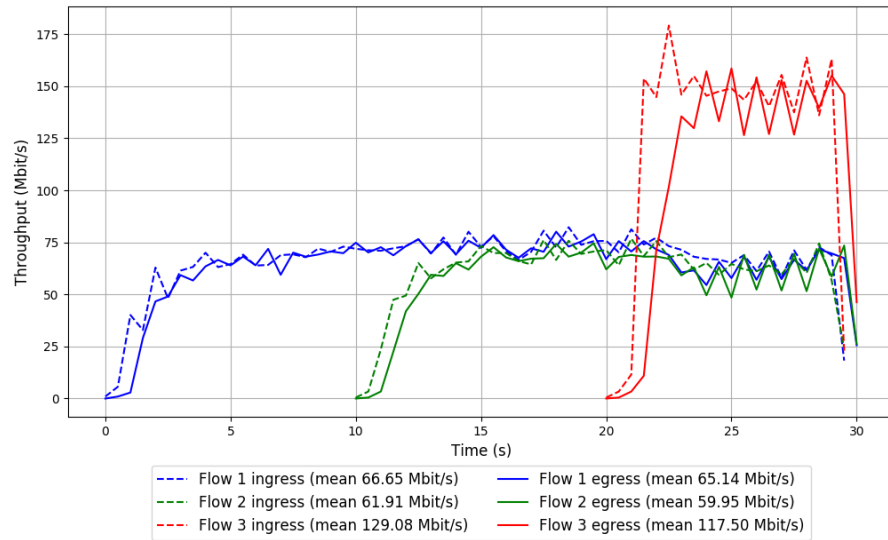


Run 4: Statistics of Indigo

Start at: 2019-03-27 03:06:54
End at: 2019-03-27 03:07:24
Local clock offset: 0.338 ms
Remote clock offset: -39.986 ms

Below is generated by plot.py at 2019-03-27 04:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 142.25 Mbit/s
95th percentile per-packet one-way delay: 64.349 ms
Loss rate: 4.38%
-- Flow 1:
Average throughput: 65.14 Mbit/s
95th percentile per-packet one-way delay: 66.142 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 59.95 Mbit/s
95th percentile per-packet one-way delay: 68.596 ms
Loss rate: 3.17%
-- Flow 3:
Average throughput: 117.50 Mbit/s
95th percentile per-packet one-way delay: 62.127 ms
Loss rate: 8.99%

Run 4: Report of Indigo — Data Link

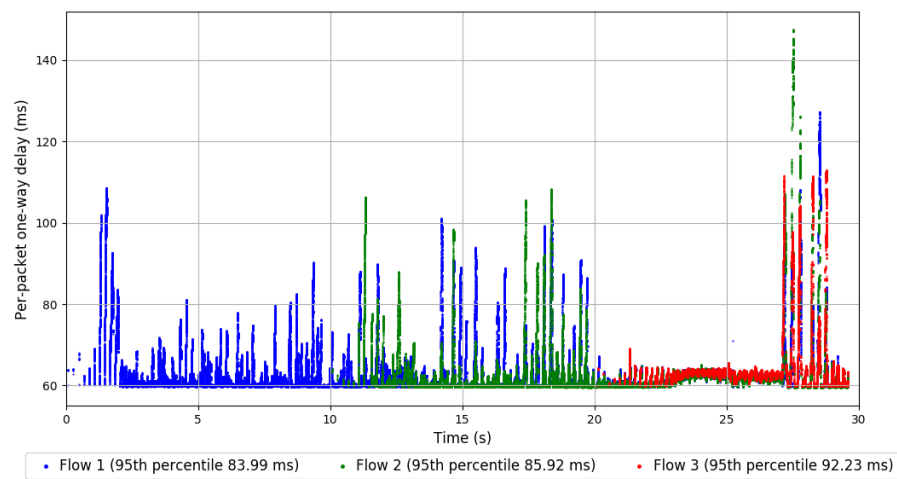
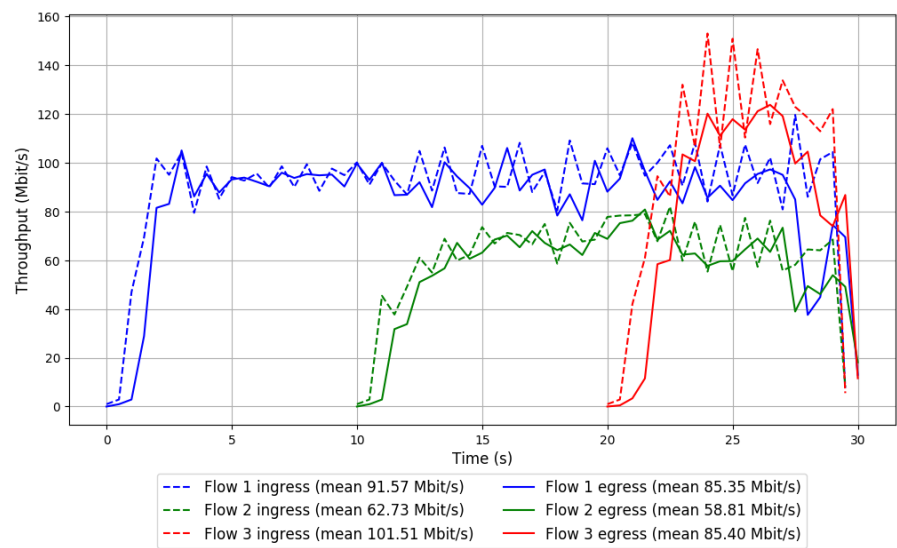


Run 5: Statistics of Indigo

Start at: 2019-03-27 03:48:24
End at: 2019-03-27 03:48:54
Local clock offset: 1.949 ms
Remote clock offset: -40.142 ms

Below is generated by plot.py at 2019-03-27 04:27:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 151.63 Mbit/s
95th percentile per-packet one-way delay: 85.401 ms
Loss rate: 8.43%
-- Flow 1:
Average throughput: 85.35 Mbit/s
95th percentile per-packet one-way delay: 83.991 ms
Loss rate: 6.79%
-- Flow 2:
Average throughput: 58.81 Mbit/s
95th percentile per-packet one-way delay: 85.918 ms
Loss rate: 6.24%
-- Flow 3:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 92.232 ms
Loss rate: 15.83%

Run 5: Report of Indigo — Data Link

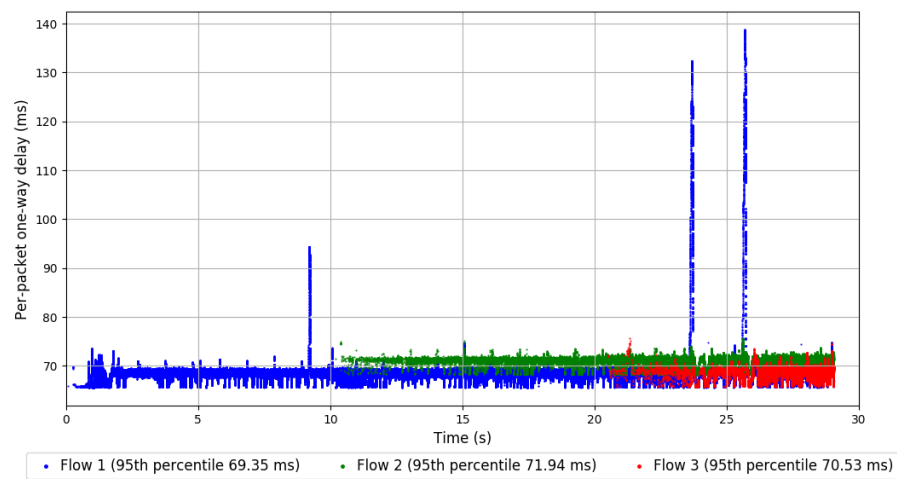
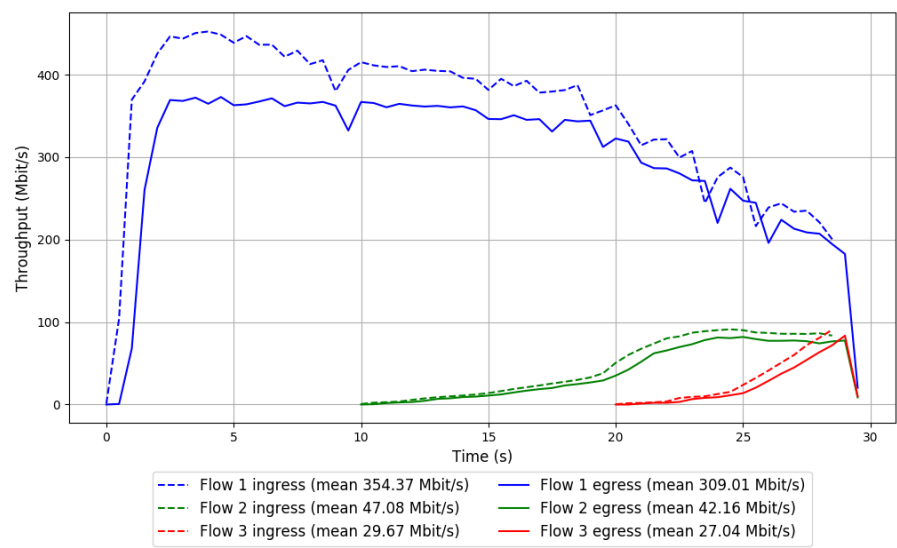


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-03-27 01:10:45
End at: 2019-03-27 01:11:15
Local clock offset: 6.13 ms
Remote clock offset: -34.229 ms

Below is generated by plot.py at 2019-03-27 04:29:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 344.56 Mbit/s
95th percentile per-packet one-way delay: 71.218 ms
Loss rate: 12.52%
-- Flow 1:
Average throughput: 309.01 Mbit/s
95th percentile per-packet one-way delay: 69.349 ms
Loss rate: 12.79%
-- Flow 2:
Average throughput: 42.16 Mbit/s
95th percentile per-packet one-way delay: 71.937 ms
Loss rate: 10.46%
-- Flow 3:
Average throughput: 27.04 Mbit/s
95th percentile per-packet one-way delay: 70.529 ms
Loss rate: 8.86%

Run 1: Report of Indigo-MusesC3 — Data Link

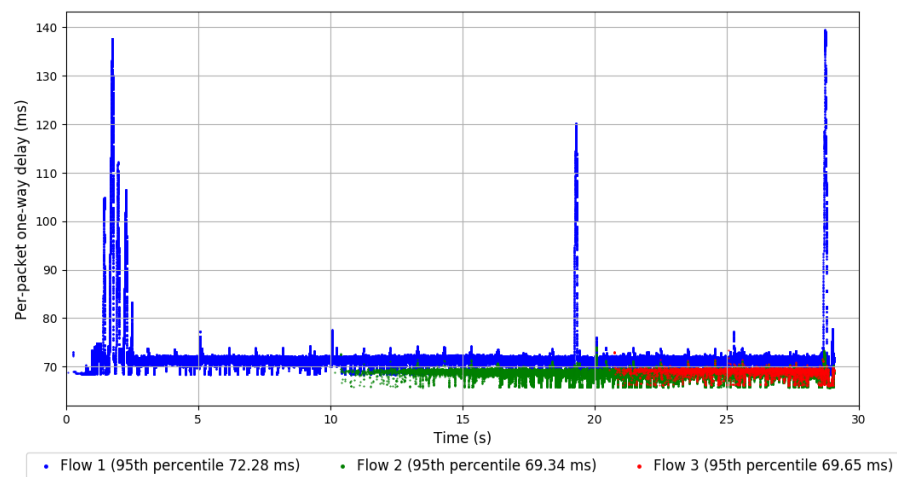
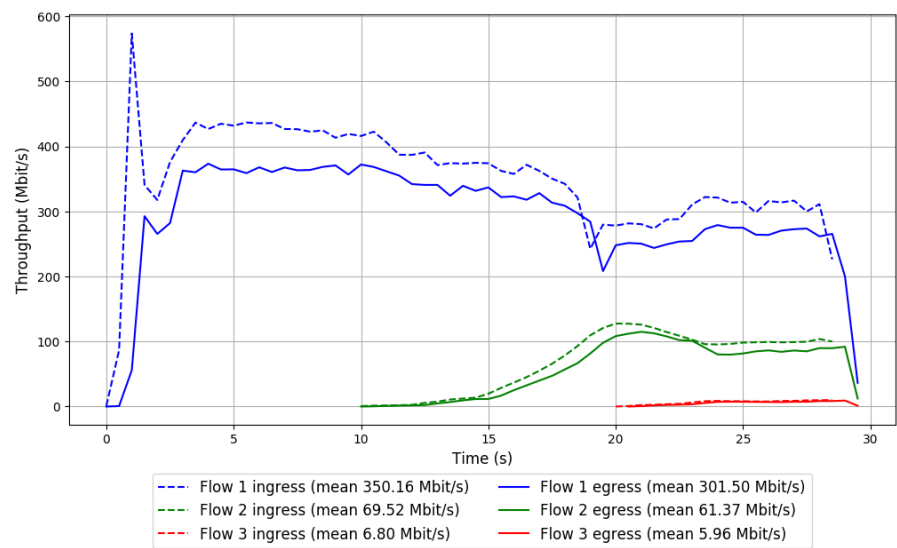


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-03-27 01:58:04
End at: 2019-03-27 01:58:34
Local clock offset: 1.764 ms
Remote clock offset: -32.767 ms

Below is generated by plot.py at 2019-03-27 04:29:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 343.22 Mbit/s
95th percentile per-packet one-way delay: 72.160 ms
Loss rate: 13.64%
-- Flow 1:
Average throughput: 301.50 Mbit/s
95th percentile per-packet one-way delay: 72.275 ms
Loss rate: 13.90%
-- Flow 2:
Average throughput: 61.37 Mbit/s
95th percentile per-packet one-way delay: 69.341 ms
Loss rate: 11.71%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 69.652 ms
Loss rate: 12.39%

Run 2: Report of Indigo-MusesC3 — Data Link

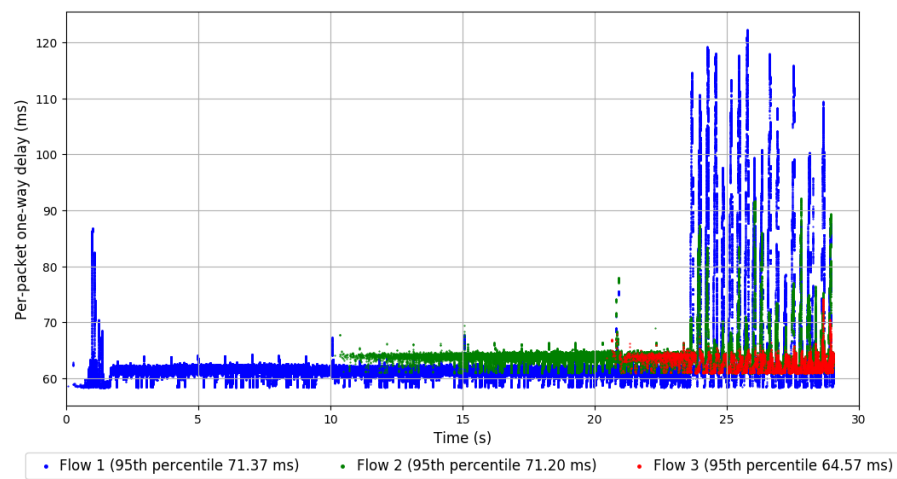
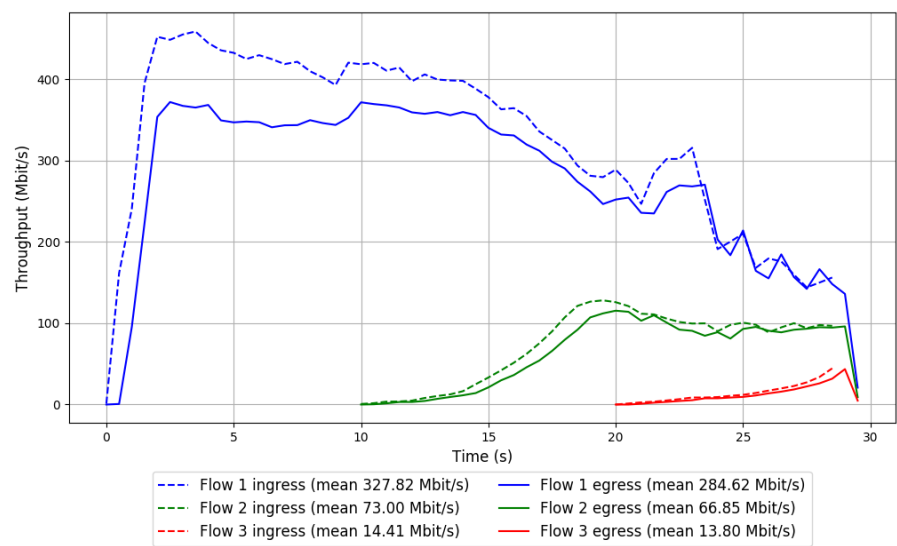


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-03-27 02:29:08
End at: 2019-03-27 02:29:38
Local clock offset: 2.87 ms
Remote clock offset: -40.383 ms

Below is generated by plot.py at 2019-03-27 04:29:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 332.26 Mbit/s
95th percentile per-packet one-way delay: 70.995 ms
Loss rate: 12.48%
-- Flow 1:
Average throughput: 284.62 Mbit/s
95th percentile per-packet one-way delay: 71.371 ms
Loss rate: 13.17%
-- Flow 2:
Average throughput: 66.85 Mbit/s
95th percentile per-packet one-way delay: 71.197 ms
Loss rate: 8.43%
-- Flow 3:
Average throughput: 13.80 Mbit/s
95th percentile per-packet one-way delay: 64.572 ms
Loss rate: 4.27%

Run 3: Report of Indigo-MusesC3 — Data Link

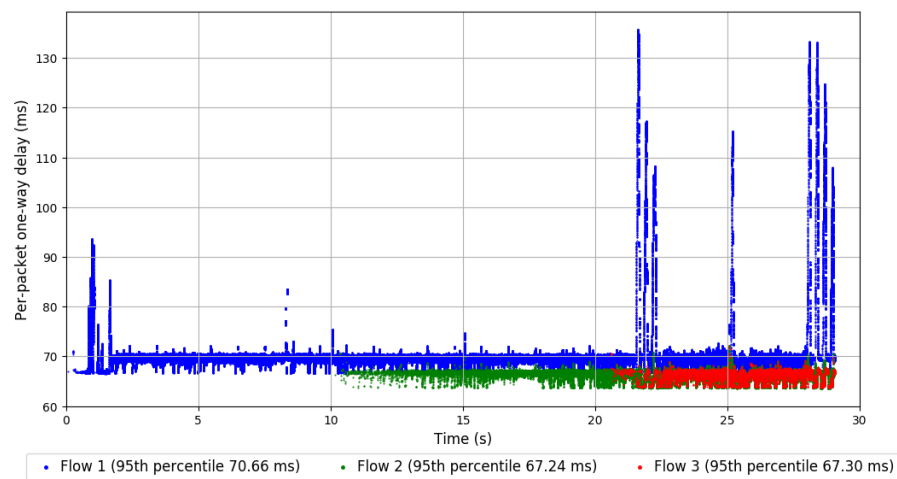
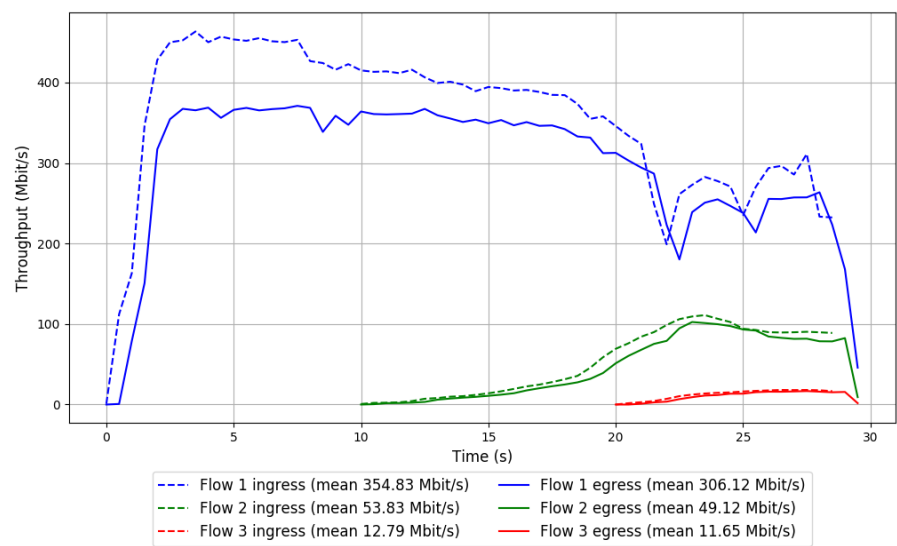


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-03-27 03:05:19
End at: 2019-03-27 03:05:49
Local clock offset: 0.91 ms
Remote clock offset: -33.97 ms

Below is generated by plot.py at 2019-03-27 04:29:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 341.61 Mbit/s
95th percentile per-packet one-way delay: 70.499 ms
Loss rate: 13.23%
-- Flow 1:
Average throughput: 306.12 Mbit/s
95th percentile per-packet one-way delay: 70.656 ms
Loss rate: 13.72%
-- Flow 2:
Average throughput: 49.12 Mbit/s
95th percentile per-packet one-way delay: 67.239 ms
Loss rate: 8.75%
-- Flow 3:
Average throughput: 11.65 Mbit/s
95th percentile per-packet one-way delay: 67.299 ms
Loss rate: 8.90%

Run 4: Report of Indigo-MusesC3 — Data Link

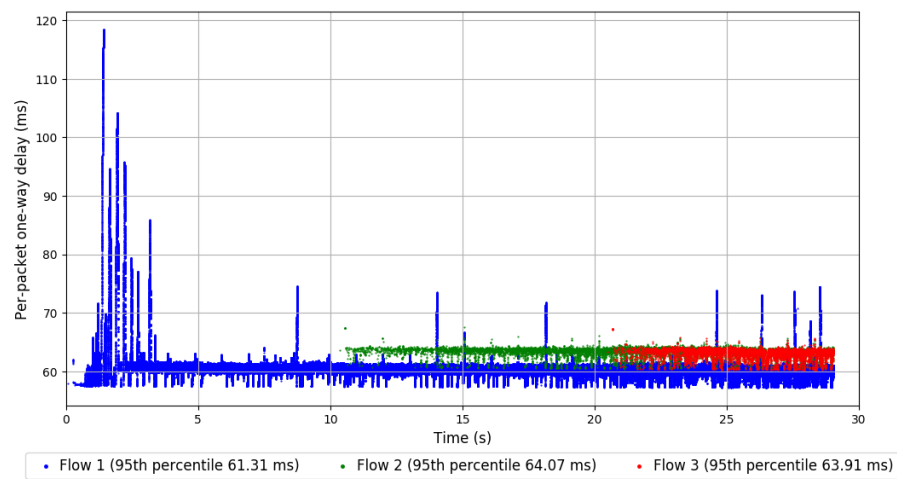
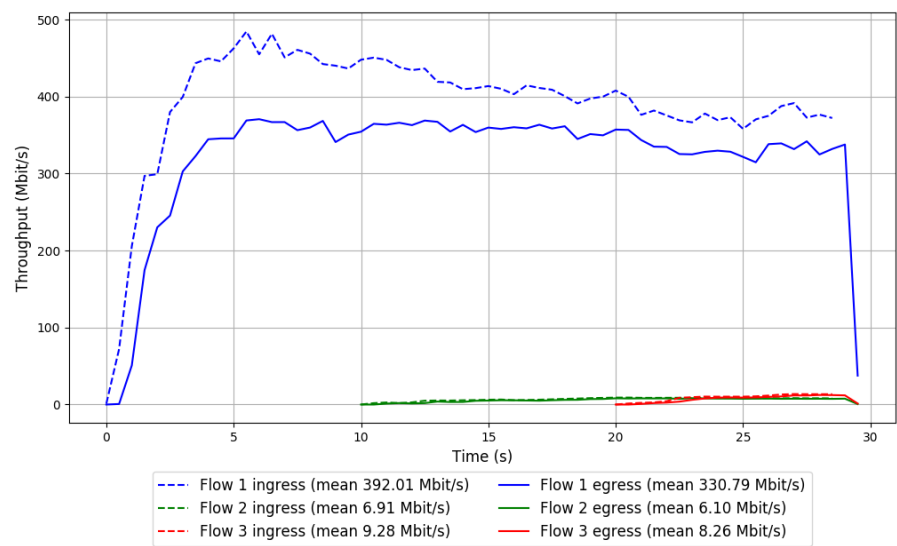


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-03-27 03:46:49
End at: 2019-03-27 03:47:19
Local clock offset: 4.015 ms
Remote clock offset: -40.809 ms

Below is generated by plot.py at 2019-03-27 04:30:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.15 Mbit/s
95th percentile per-packet one-way delay: 62.146 ms
Loss rate: 15.53%
-- Flow 1:
Average throughput: 330.79 Mbit/s
95th percentile per-packet one-way delay: 61.315 ms
Loss rate: 15.61%
-- Flow 2:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 64.068 ms
Loss rate: 11.77%
-- Flow 3:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 63.908 ms
Loss rate: 11.02%

Run 5: Report of Indigo-MusesC3 — Data Link

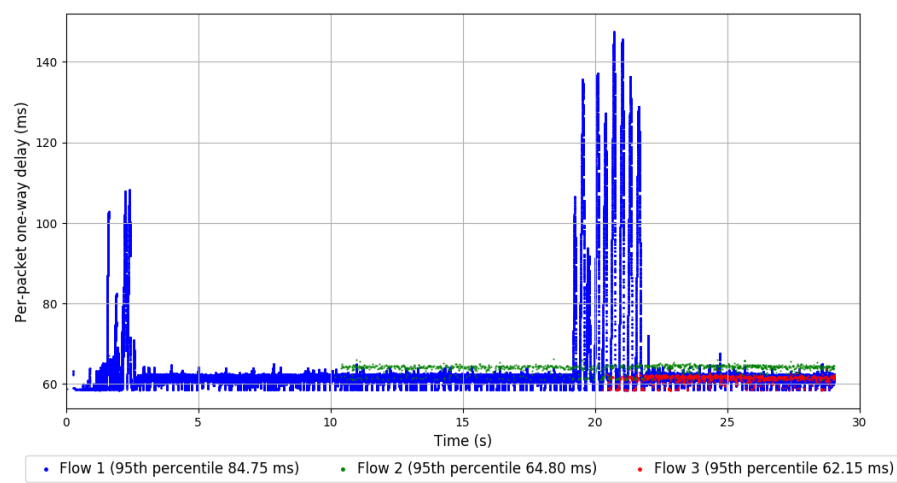
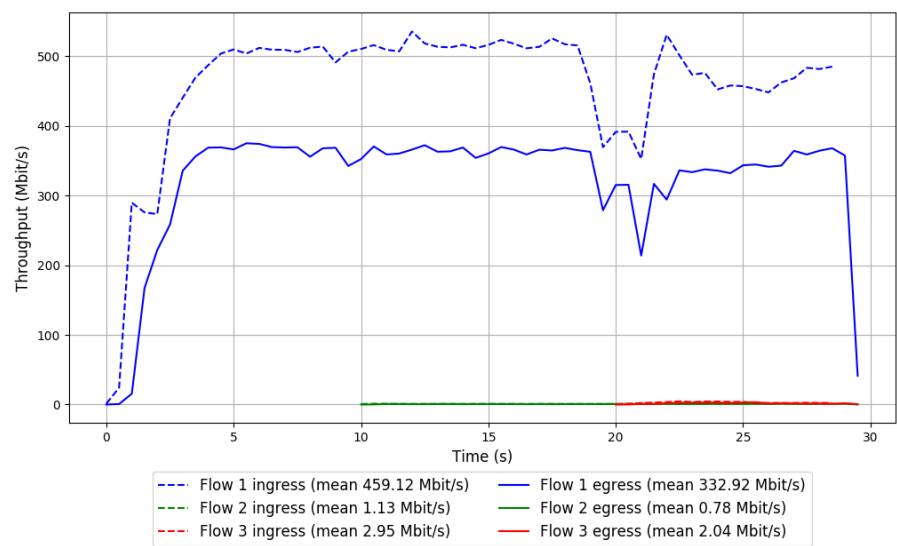


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-03-27 01:07:35
End at: 2019-03-27 01:08:05
Local clock offset: 5.744 ms
Remote clock offset: -41.345 ms

Below is generated by plot.py at 2019-03-27 04:31:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.04 Mbit/s
95th percentile per-packet one-way delay: 84.514 ms
Loss rate: 27.49%
-- Flow 1:
Average throughput: 332.92 Mbit/s
95th percentile per-packet one-way delay: 84.747 ms
Loss rate: 27.48%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 64.796 ms
Loss rate: 30.59%
-- Flow 3:
Average throughput: 2.04 Mbit/s
95th percentile per-packet one-way delay: 62.149 ms
Loss rate: 30.90%

Run 1: Report of Indigo-MusesC5 — Data Link

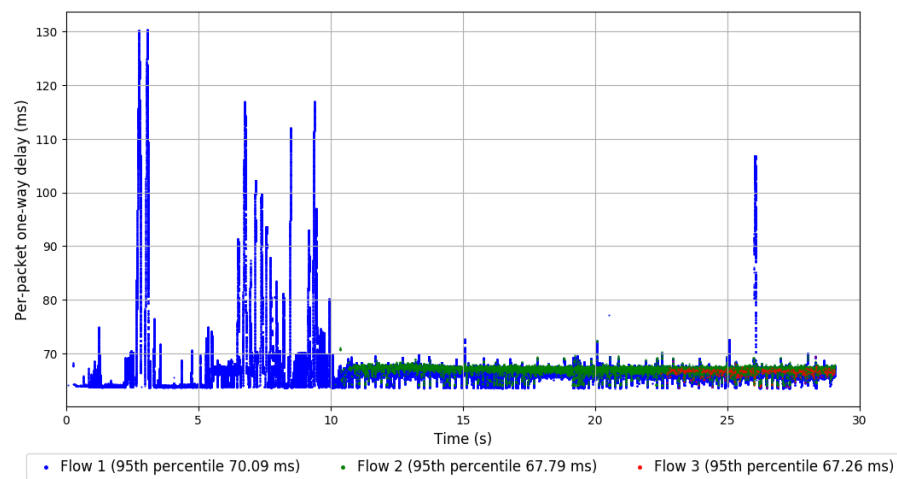
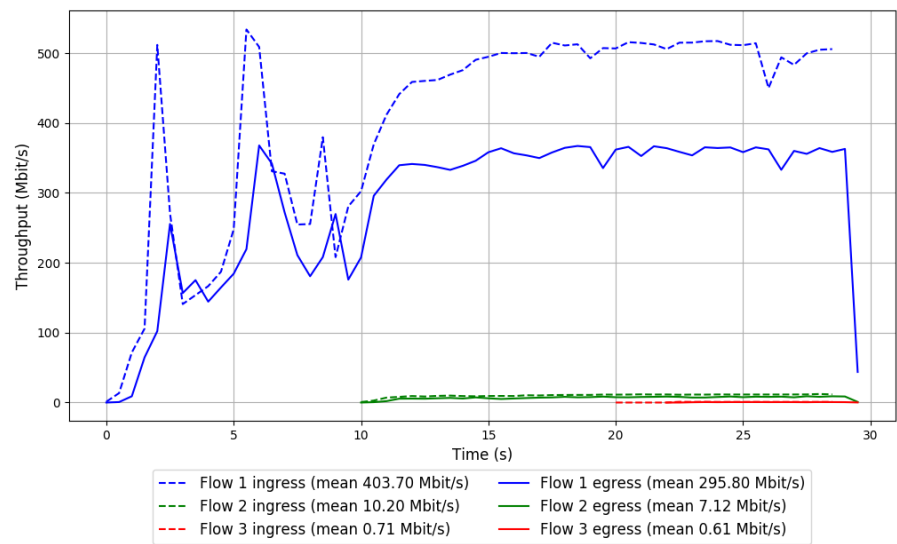


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-03-27 01:49:22
End at: 2019-03-27 01:49:52
Local clock offset: 4.148 ms
Remote clock offset: -34.829 ms

Below is generated by plot.py at 2019-03-27 04:31:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 300.57 Mbit/s
95th percentile per-packet one-way delay: 70.039 ms
Loss rate: 26.78%
-- Flow 1:
Average throughput: 295.80 Mbit/s
95th percentile per-packet one-way delay: 70.089 ms
Loss rate: 26.72%
-- Flow 2:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 67.792 ms
Loss rate: 30.21%
-- Flow 3:
Average throughput: 0.61 Mbit/s
95th percentile per-packet one-way delay: 67.259 ms
Loss rate: 34.69%

Run 2: Report of Indigo-MusesC5 — Data Link

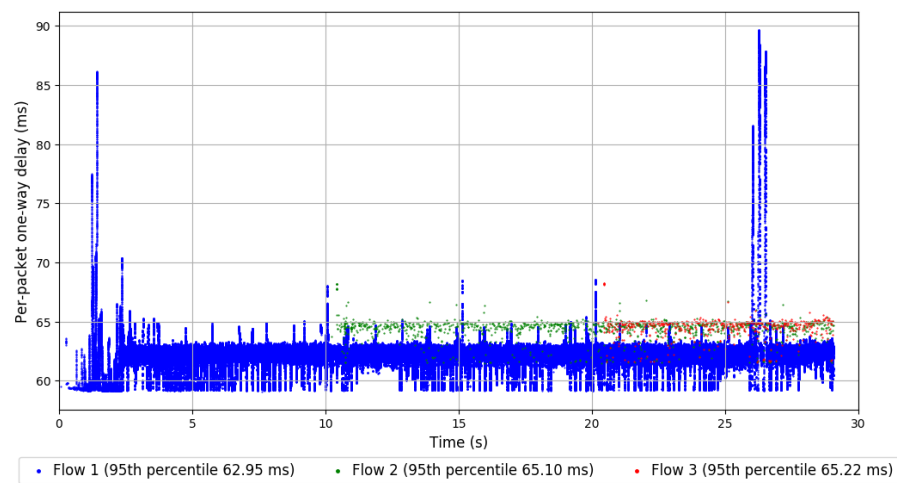
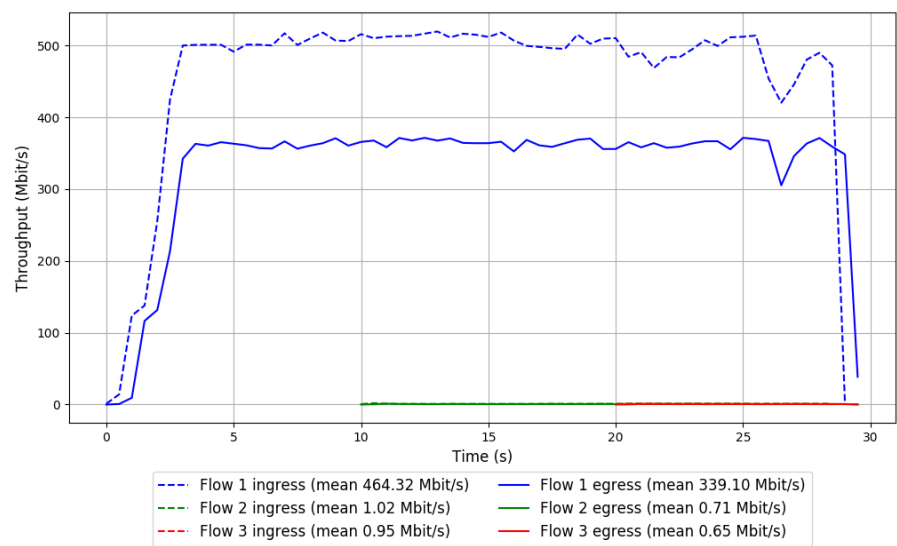


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-03-27 02:25:58
End at: 2019-03-27 02:26:28
Local clock offset: 2.028 ms
Remote clock offset: -40.408 ms

Below is generated by plot.py at 2019-03-27 04:32:13
Datalink statistics
-- Total of 3 flows:
Average throughput: 339.75 Mbit/s
95th percentile per-packet one-way delay: 62.954 ms
Loss rate: 26.97%
-- Flow 1:
Average throughput: 339.10 Mbit/s
95th percentile per-packet one-way delay: 62.945 ms
Loss rate: 26.96%
-- Flow 2:
Average throughput: 0.71 Mbit/s
95th percentile per-packet one-way delay: 65.103 ms
Loss rate: 30.84%
-- Flow 3:
Average throughput: 0.65 Mbit/s
95th percentile per-packet one-way delay: 65.217 ms
Loss rate: 32.59%

Run 3: Report of Indigo-MusesC5 — Data Link

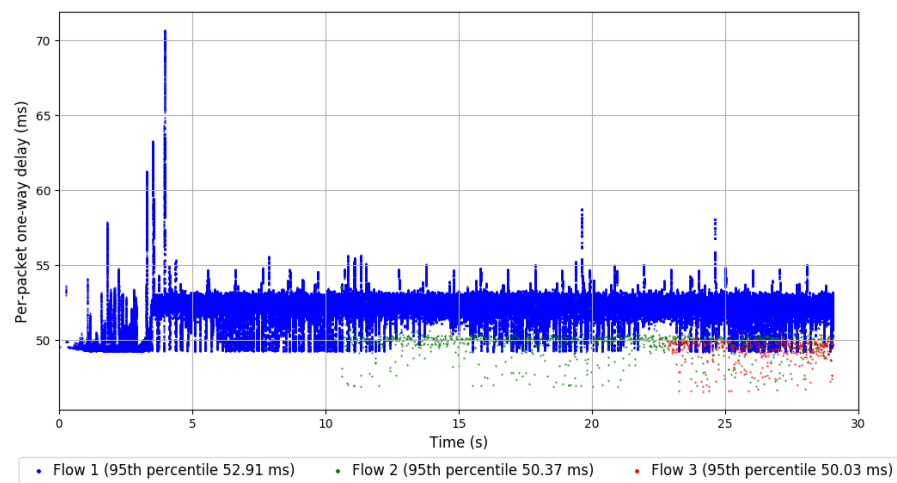
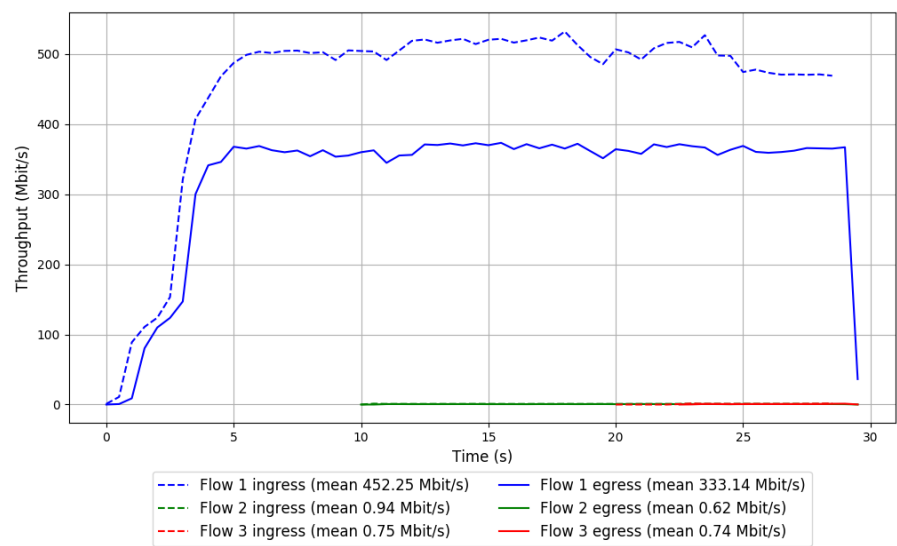


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-03-27 03:02:11
End at: 2019-03-27 03:02:41
Local clock offset: 17.629 ms
Remote clock offset: -34.755 ms

Below is generated by plot.py at 2019-03-27 04:33:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 333.70 Mbit/s
95th percentile per-packet one-way delay: 52.907 ms
Loss rate: 26.34%
-- Flow 1:
Average throughput: 333.14 Mbit/s
95th percentile per-packet one-way delay: 52.907 ms
Loss rate: 26.33%
-- Flow 2:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 50.368 ms
Loss rate: 33.58%
-- Flow 3:
Average throughput: 0.74 Mbit/s
95th percentile per-packet one-way delay: 50.034 ms
Loss rate: 29.00%

Run 4: Report of Indigo-MusesC5 — Data Link

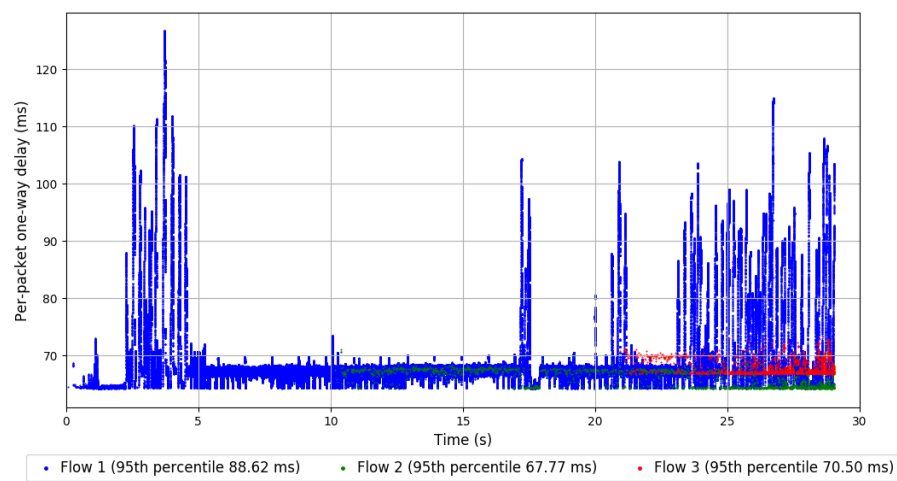
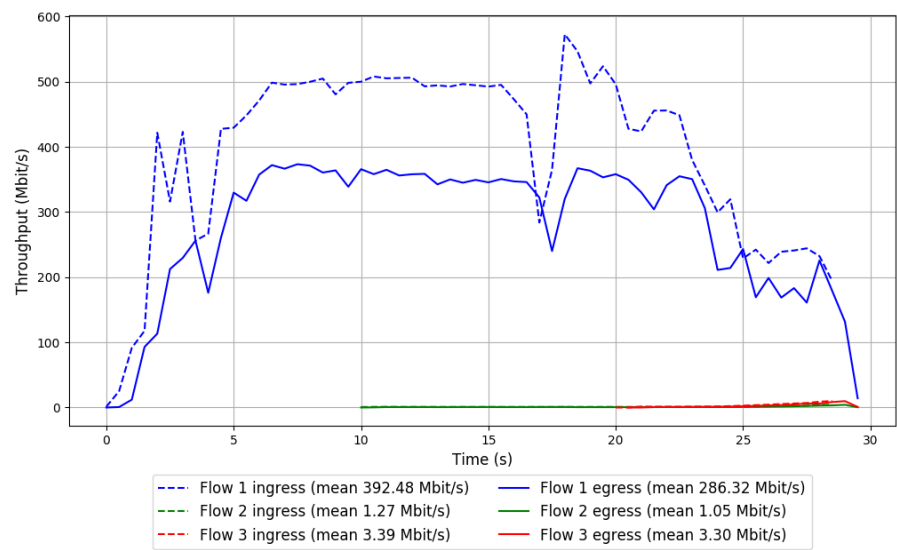


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-03-27 03:43:40
End at: 2019-03-27 03:44:10
Local clock offset: 4.213 ms
Remote clock offset: -34.866 ms

Below is generated by plot.py at 2019-03-27 04:33:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 287.93 Mbit/s
95th percentile per-packet one-way delay: 88.554 ms
Loss rate: 26.97%
-- Flow 1:
Average throughput: 286.32 Mbit/s
95th percentile per-packet one-way delay: 88.618 ms
Loss rate: 27.04%
-- Flow 2:
Average throughput: 1.05 Mbit/s
95th percentile per-packet one-way delay: 67.768 ms
Loss rate: 17.83%
-- Flow 3:
Average throughput: 3.30 Mbit/s
95th percentile per-packet one-way delay: 70.503 ms
Loss rate: 8.42%

Run 5: Report of Indigo-MusesC5 — Data Link

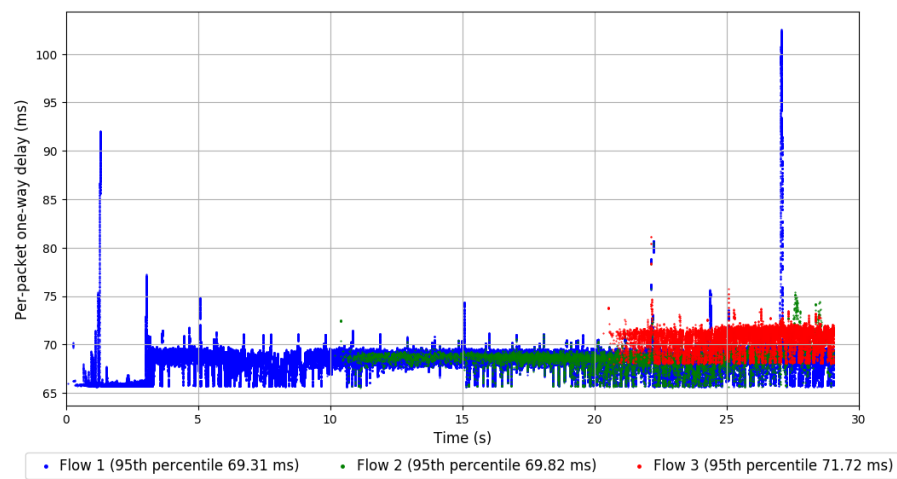
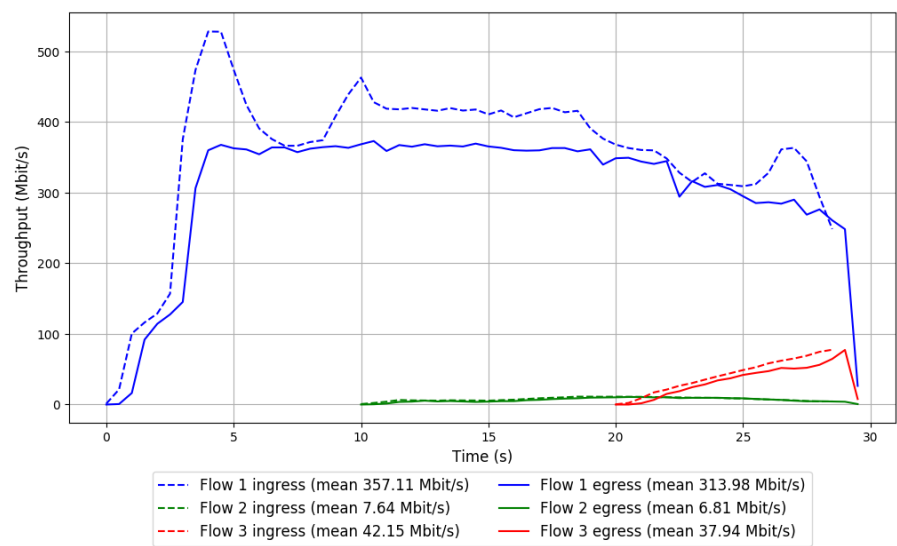


Run 1: Statistics of Indigo-MusesD

Start at: 2019-03-27 01:09:10
End at: 2019-03-27 01:09:40
Local clock offset: 5.727 ms
Remote clock offset: -34.538 ms

Below is generated by plot.py at 2019-03-27 04:33:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 329.81 Mbit/s
95th percentile per-packet one-way delay: 69.603 ms
Loss rate: 11.98%
-- Flow 1:
Average throughput: 313.98 Mbit/s
95th percentile per-packet one-way delay: 69.315 ms
Loss rate: 12.07%
-- Flow 2:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 69.817 ms
Loss rate: 10.93%
-- Flow 3:
Average throughput: 37.94 Mbit/s
95th percentile per-packet one-way delay: 71.715 ms
Loss rate: 10.02%

Run 1: Report of Indigo-MusesD — Data Link

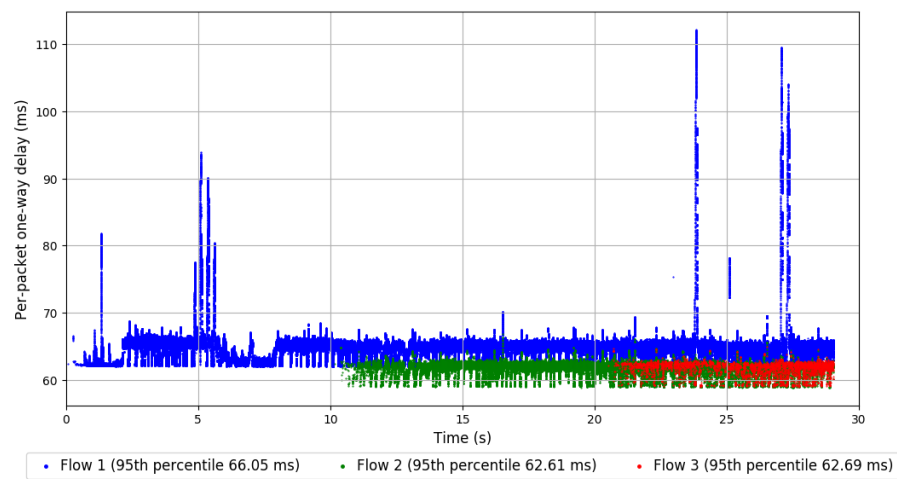
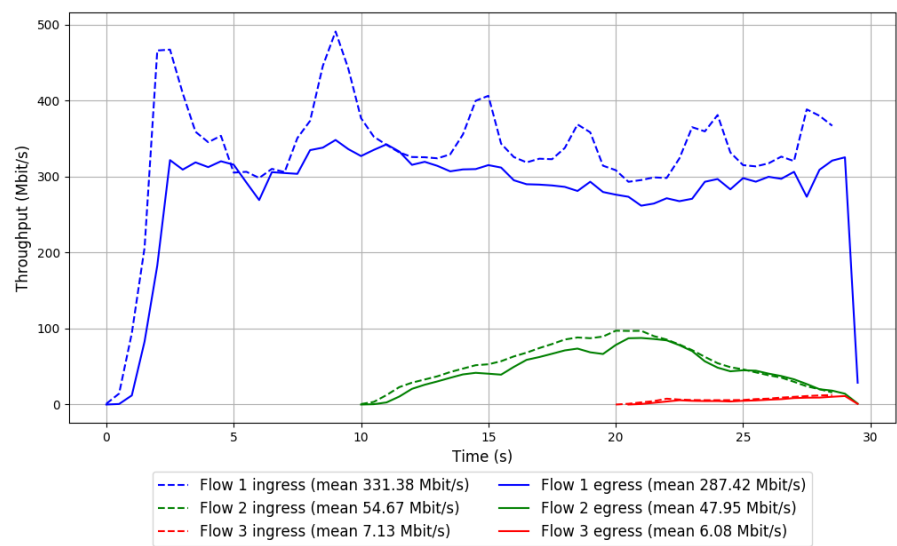


Run 2: Statistics of Indigo-MusesD

Start at: 2019-03-27 01:50:57
End at: 2019-03-27 01:51:27
Local clock offset: 2.935 ms
Remote clock offset: -40.137 ms

Below is generated by plot.py at 2019-03-27 04:33:39
Datalink statistics
-- Total of 3 flows:
Average throughput: 320.40 Mbit/s
95th percentile per-packet one-way delay: 65.988 ms
Loss rate: 13.18%
-- Flow 1:
Average throughput: 287.42 Mbit/s
95th percentile per-packet one-way delay: 66.047 ms
Loss rate: 13.26%
-- Flow 2:
Average throughput: 47.95 Mbit/s
95th percentile per-packet one-way delay: 62.612 ms
Loss rate: 12.30%
-- Flow 3:
Average throughput: 6.08 Mbit/s
95th percentile per-packet one-way delay: 62.690 ms
Loss rate: 14.80%

Run 2: Report of Indigo-MusesD — Data Link

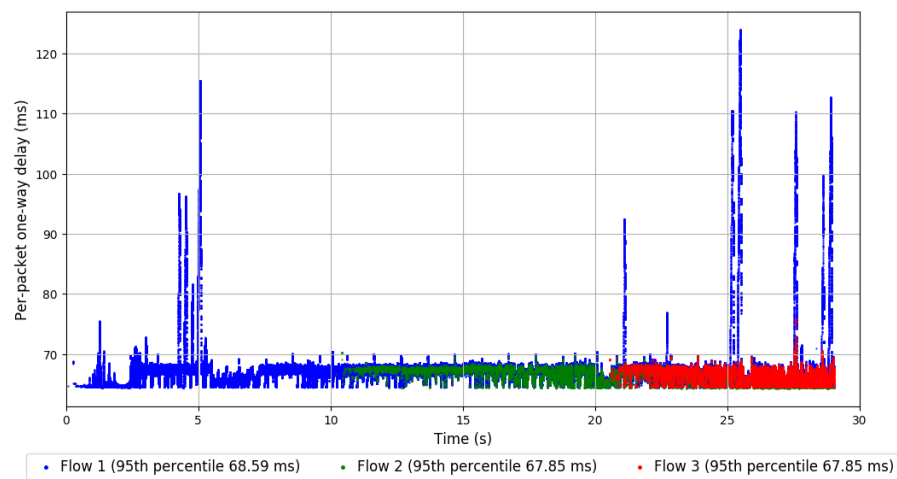
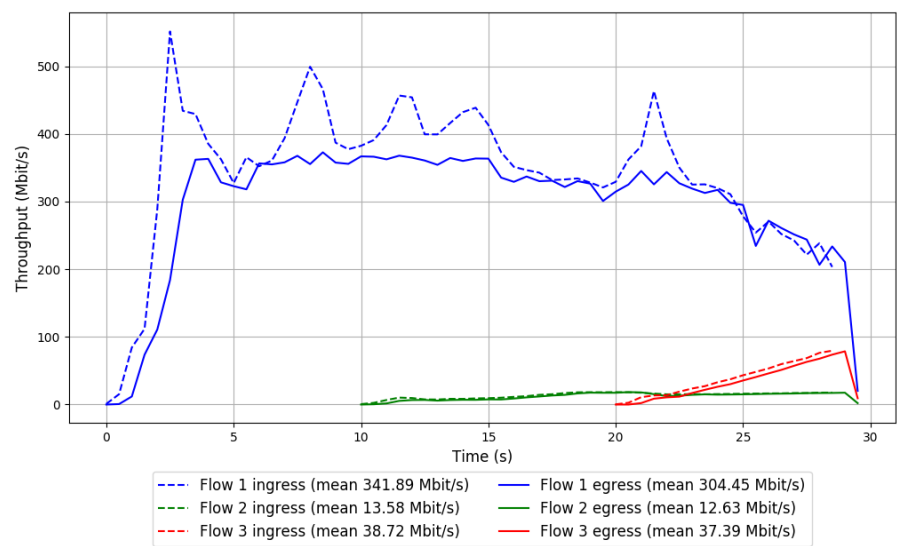


Run 3: Statistics of Indigo-MusesD

Start at: 2019-03-27 02:27:33
End at: 2019-03-27 02:28:03
Local clock offset: 1.835 ms
Remote clock offset: -35.223 ms

Below is generated by plot.py at 2019-03-27 04:33:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 323.83 Mbit/s
95th percentile per-packet one-way delay: 68.483 ms
Loss rate: 10.61%
-- Flow 1:
Average throughput: 304.45 Mbit/s
95th percentile per-packet one-way delay: 68.590 ms
Loss rate: 10.95%
-- Flow 2:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 67.850 ms
Loss rate: 6.99%
-- Flow 3:
Average throughput: 37.39 Mbit/s
95th percentile per-packet one-way delay: 67.854 ms
Loss rate: 3.45%

Run 3: Report of Indigo-MusesD — Data Link

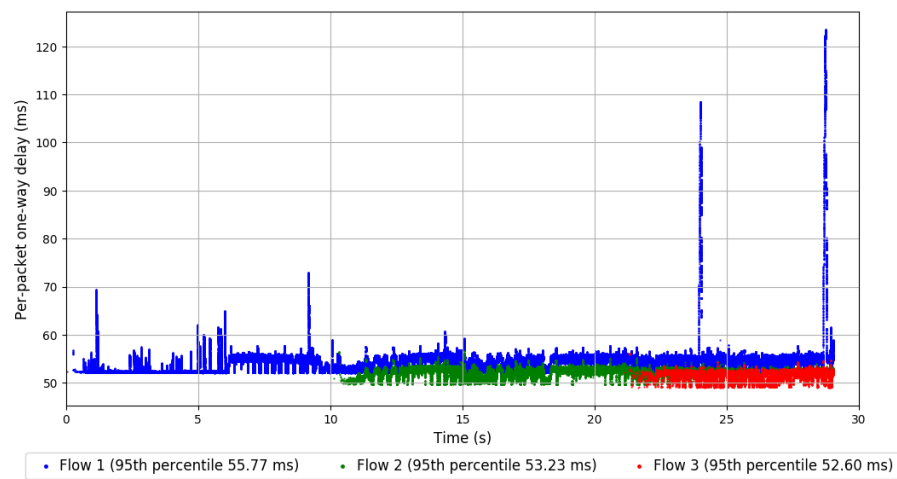
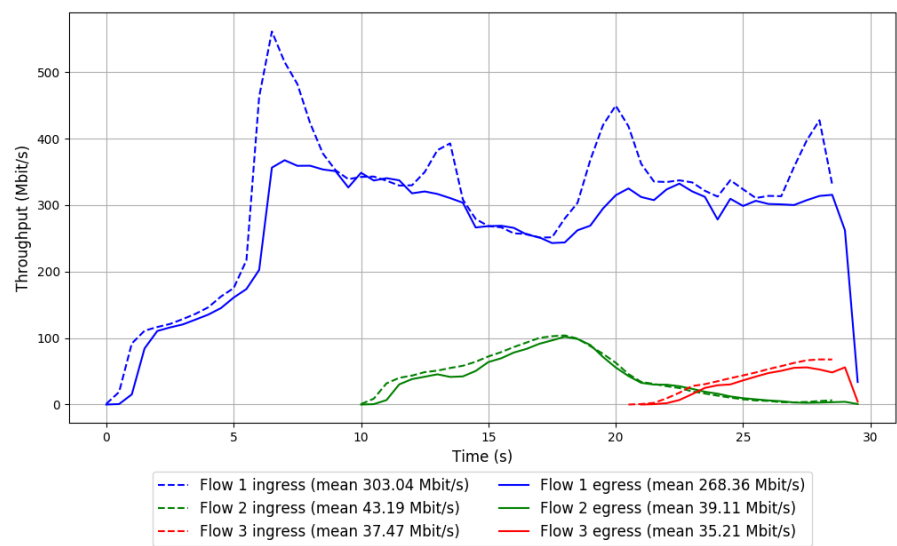


Run 4: Statistics of Indigo-MusesD

Start at: 2019-03-27 03:03:45
End at: 2019-03-27 03:04:15
Local clock offset: 15.21 ms
Remote clock offset: -34.119 ms

Below is generated by plot.py at 2019-03-27 04:35:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 303.47 Mbit/s
95th percentile per-packet one-way delay: 55.726 ms
Loss rate: 11.28%
-- Flow 1:
Average throughput: 268.36 Mbit/s
95th percentile per-packet one-way delay: 55.766 ms
Loss rate: 11.44%
-- Flow 2:
Average throughput: 39.11 Mbit/s
95th percentile per-packet one-way delay: 53.234 ms
Loss rate: 9.42%
-- Flow 3:
Average throughput: 35.21 Mbit/s
95th percentile per-packet one-way delay: 52.599 ms
Loss rate: 11.61%

Run 4: Report of Indigo-MusesD — Data Link

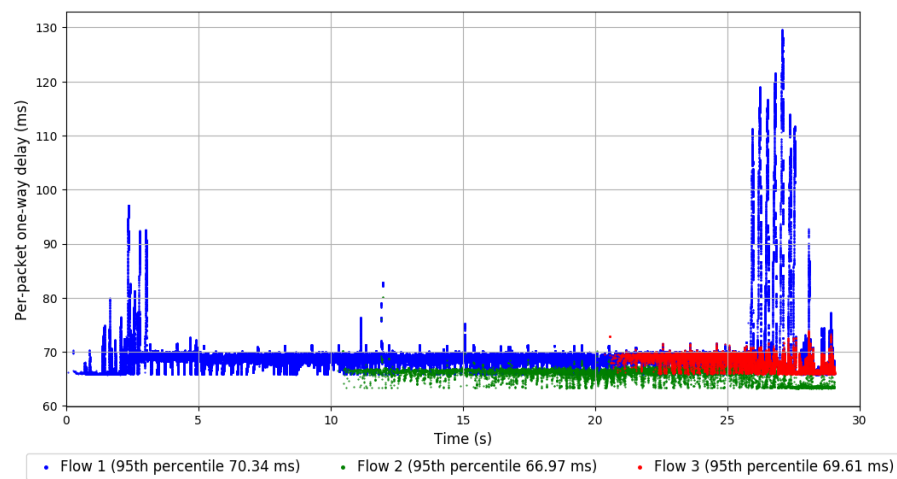
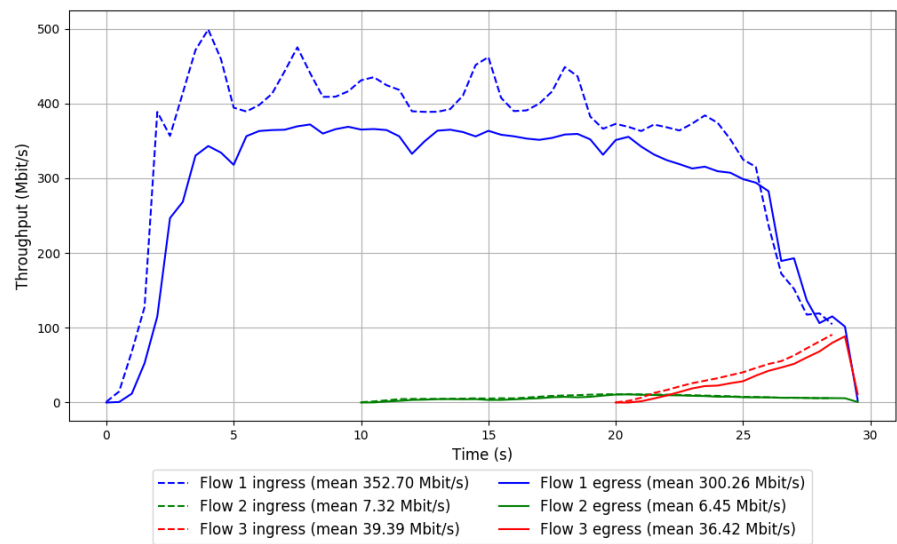


Run 5: Statistics of Indigo-MusesD

Start at: 2019-03-27 03:45:13
End at: 2019-03-27 03:45:43
Local clock offset: 4.151 ms
Remote clock offset: -35.755 ms

Below is generated by plot.py at 2019-03-27 04:35:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 315.37 Mbit/s
95th percentile per-packet one-way delay: 70.180 ms
Loss rate: 14.60%
-- Flow 1:
Average throughput: 300.26 Mbit/s
95th percentile per-packet one-way delay: 70.337 ms
Loss rate: 14.87%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 66.971 ms
Loss rate: 11.85%
-- Flow 3:
Average throughput: 36.42 Mbit/s
95th percentile per-packet one-way delay: 69.611 ms
Loss rate: 7.56%

Run 5: Report of Indigo-MusesD — Data Link

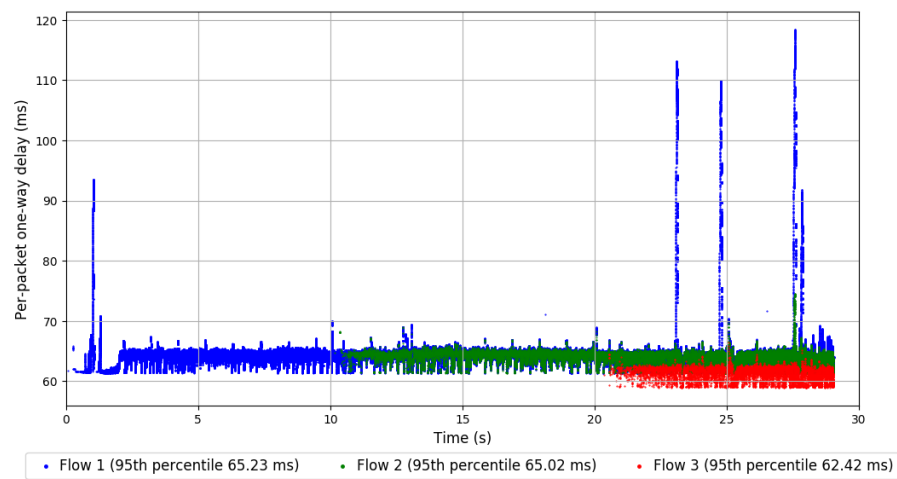
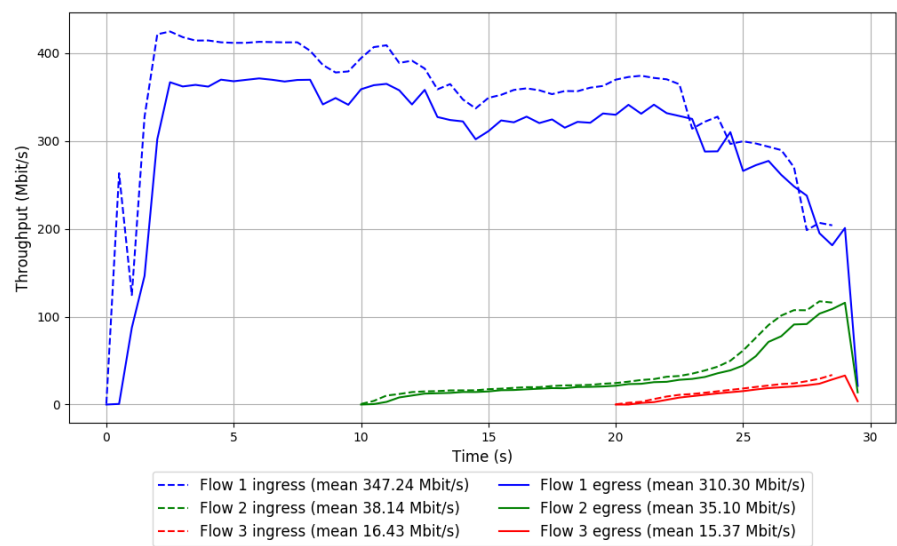


Run 1: Statistics of Indigo-MusesT

Start at: 2019-03-27 01:37:52
End at: 2019-03-27 01:38:22
Local clock offset: 5.388 ms
Remote clock offset: -40.75 ms

Below is generated by plot.py at 2019-03-27 04:36:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 337.78 Mbit/s
95th percentile per-packet one-way delay: 65.217 ms
Loss rate: 10.40%
-- Flow 1:
Average throughput: 310.30 Mbit/s
95th percentile per-packet one-way delay: 65.234 ms
Loss rate: 10.63%
-- Flow 2:
Average throughput: 35.10 Mbit/s
95th percentile per-packet one-way delay: 65.019 ms
Loss rate: 7.97%
-- Flow 3:
Average throughput: 15.37 Mbit/s
95th percentile per-packet one-way delay: 62.417 ms
Loss rate: 6.48%

Run 1: Report of Indigo-MusesT — Data Link

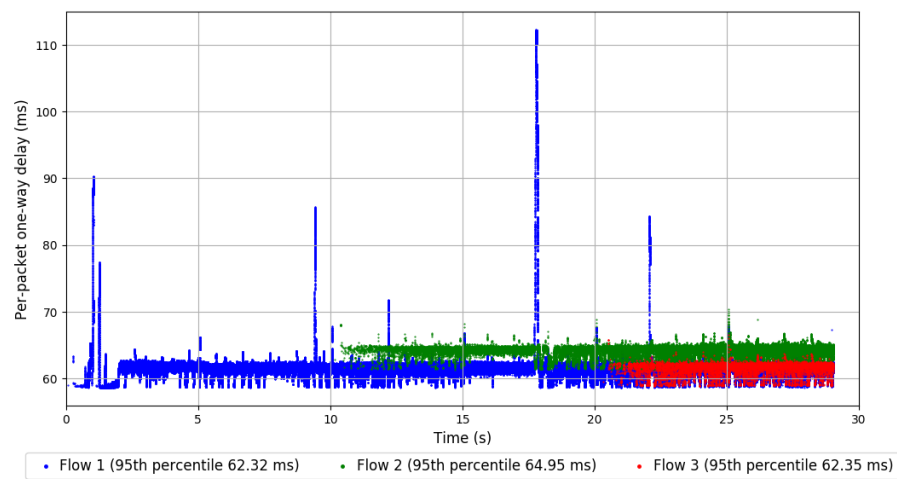
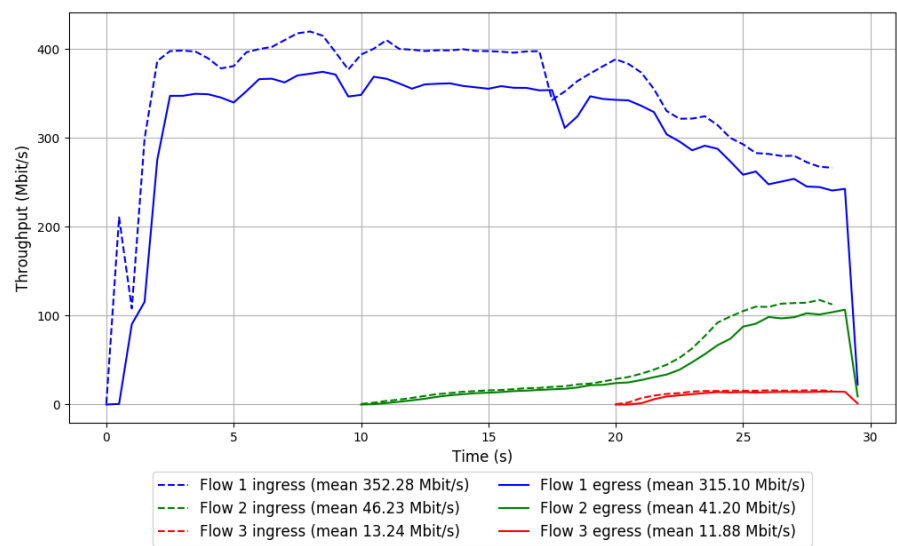


Run 2: Statistics of Indigo-MusesT

Start at: 2019-03-27 02:20:02
End at: 2019-03-27 02:20:32
Local clock offset: 1.182 ms
Remote clock offset: -40.265 ms

Below is generated by plot.py at 2019-03-27 04:37:08
Datalink statistics
-- Total of 3 flows:
Average throughput: 345.48 Mbit/s
95th percentile per-packet one-way delay: 64.283 ms
Loss rate: 10.57%
-- Flow 1:
Average throughput: 315.10 Mbit/s
95th percentile per-packet one-way delay: 62.323 ms
Loss rate: 10.54%
-- Flow 2:
Average throughput: 41.20 Mbit/s
95th percentile per-packet one-way delay: 64.949 ms
Loss rate: 10.87%
-- Flow 3:
Average throughput: 11.88 Mbit/s
95th percentile per-packet one-way delay: 62.346 ms
Loss rate: 10.31%

Run 2: Report of Indigo-MusesT — Data Link

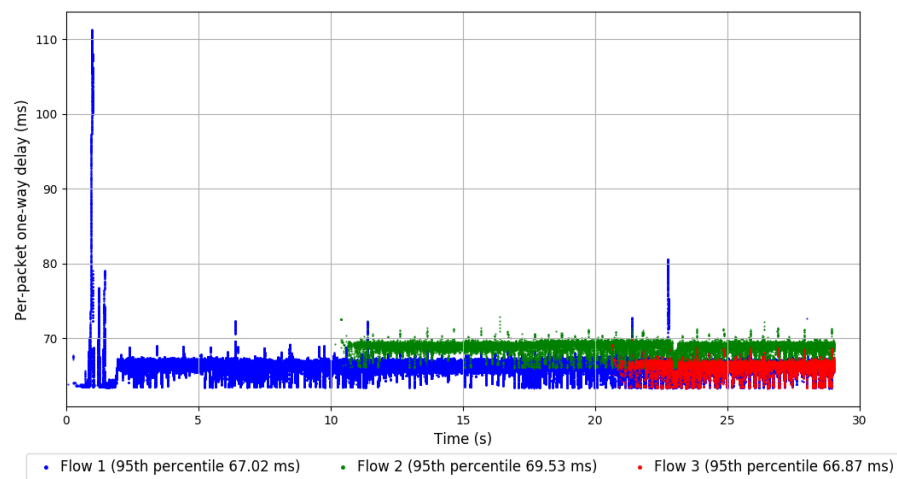
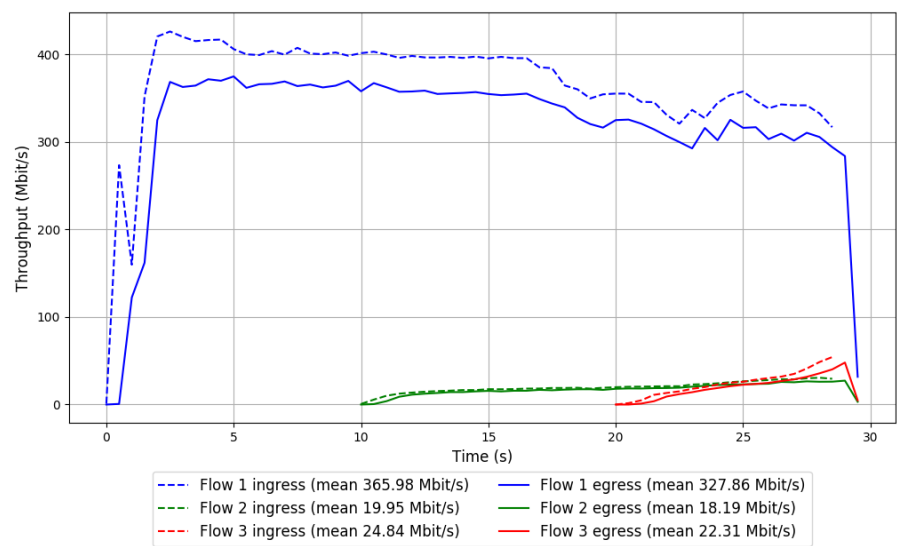


Run 3: Statistics of Indigo-MusesT

Start at: 2019-03-27 02:56:13
End at: 2019-03-27 02:56:43
Local clock offset: 1.526 ms
Remote clock offset: -34.872 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 346.31 Mbit/s
95th percentile per-packet one-way delay: 67.375 ms
Loss rate: 10.35%
-- Flow 1:
Average throughput: 327.86 Mbit/s
95th percentile per-packet one-way delay: 67.020 ms
Loss rate: 10.41%
-- Flow 2:
Average throughput: 18.19 Mbit/s
95th percentile per-packet one-way delay: 69.529 ms
Loss rate: 8.83%
-- Flow 3:
Average throughput: 22.31 Mbit/s
95th percentile per-packet one-way delay: 66.872 ms
Loss rate: 10.16%

Run 3: Report of Indigo-MusesT — Data Link

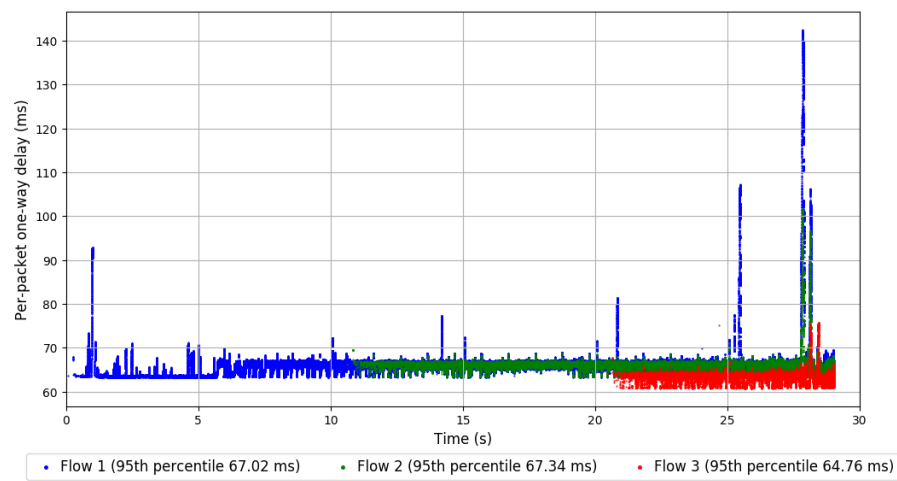
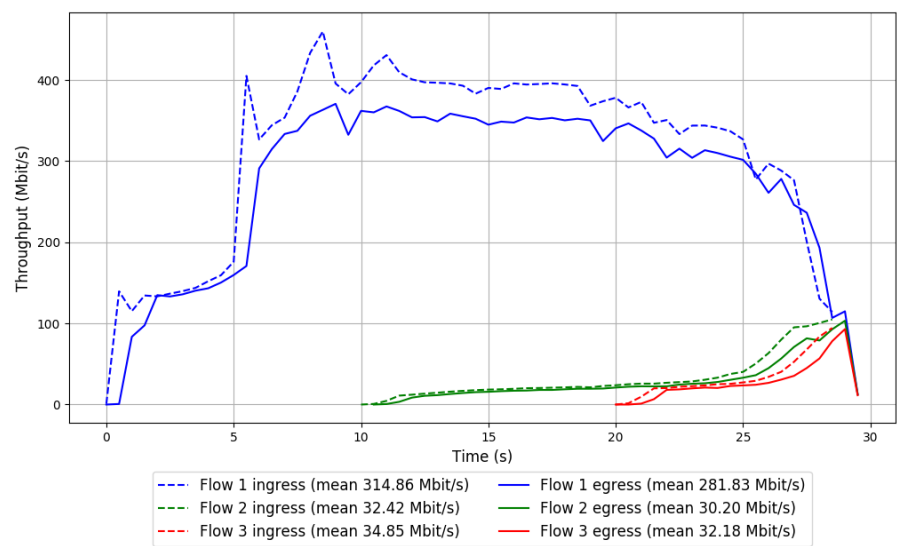


Run 4: Statistics of Indigo-MusesT

Start at: 2019-03-27 03:37:40
End at: 2019-03-27 03:38:10
Local clock offset: 1.532 ms
Remote clock offset: -40.503 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 310.53 Mbit/s
95th percentile per-packet one-way delay: 67.026 ms
Loss rate: 10.33%
-- Flow 1:
Average throughput: 281.83 Mbit/s
95th percentile per-packet one-way delay: 67.023 ms
Loss rate: 10.48%
-- Flow 2:
Average throughput: 30.20 Mbit/s
95th percentile per-packet one-way delay: 67.343 ms
Loss rate: 9.31%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 64.763 ms
Loss rate: 7.67%

Run 4: Report of Indigo-MusesT — Data Link

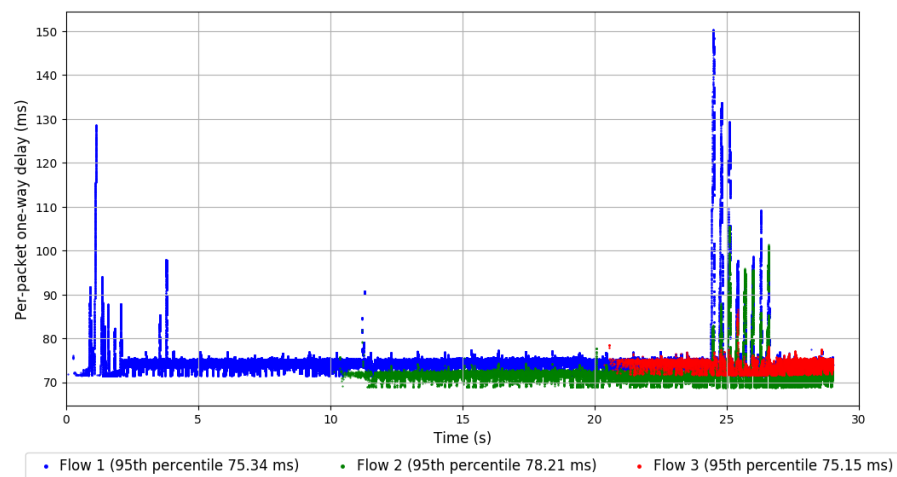
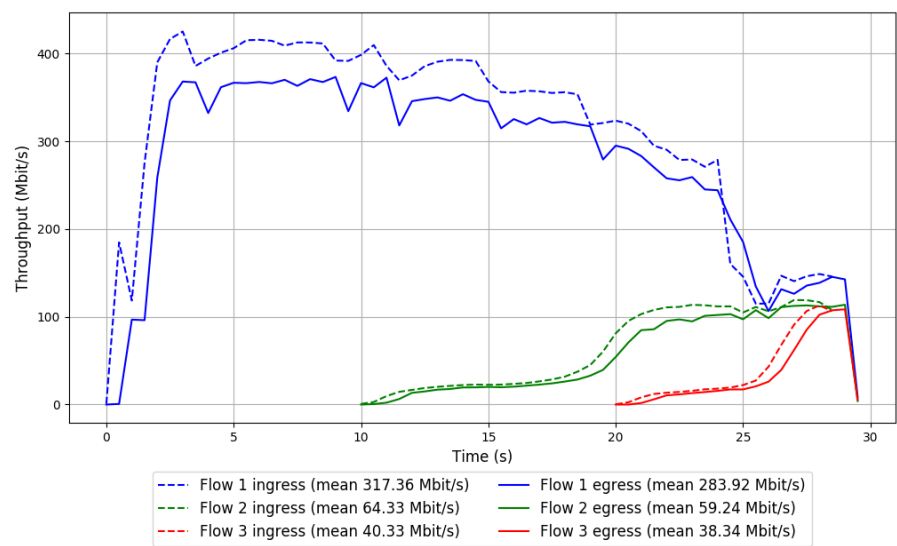


Run 5: Statistics of Indigo-MusesT

Start at: 2019-03-27 04:09:13
End at: 2019-03-27 04:09:43
Local clock offset: -2.373 ms
Remote clock offset: -31.117 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 334.00 Mbit/s
95th percentile per-packet one-way delay: 75.354 ms
Loss rate: 10.06%
-- Flow 1:
Average throughput: 283.92 Mbit/s
95th percentile per-packet one-way delay: 75.338 ms
Loss rate: 10.53%
-- Flow 2:
Average throughput: 59.24 Mbit/s
95th percentile per-packet one-way delay: 78.207 ms
Loss rate: 7.91%
-- Flow 3:
Average throughput: 38.34 Mbit/s
95th percentile per-packet one-way delay: 75.148 ms
Loss rate: 4.94%

Run 5: Report of Indigo-MusesT — Data Link

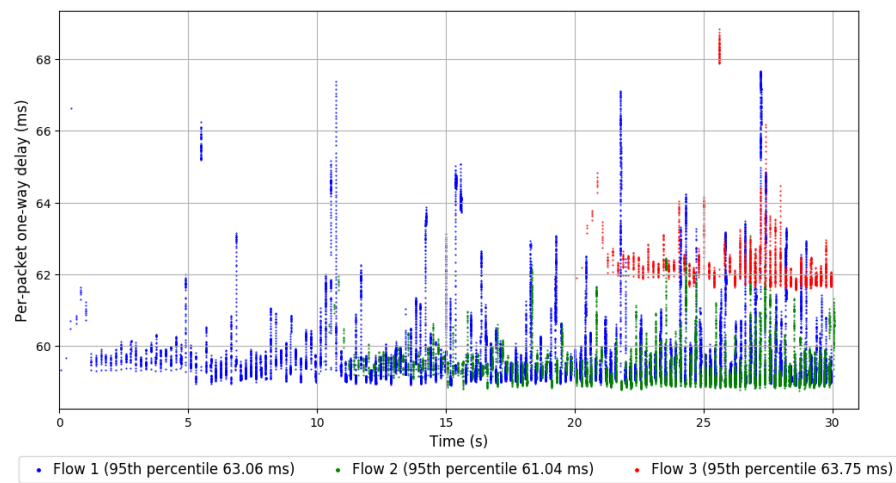
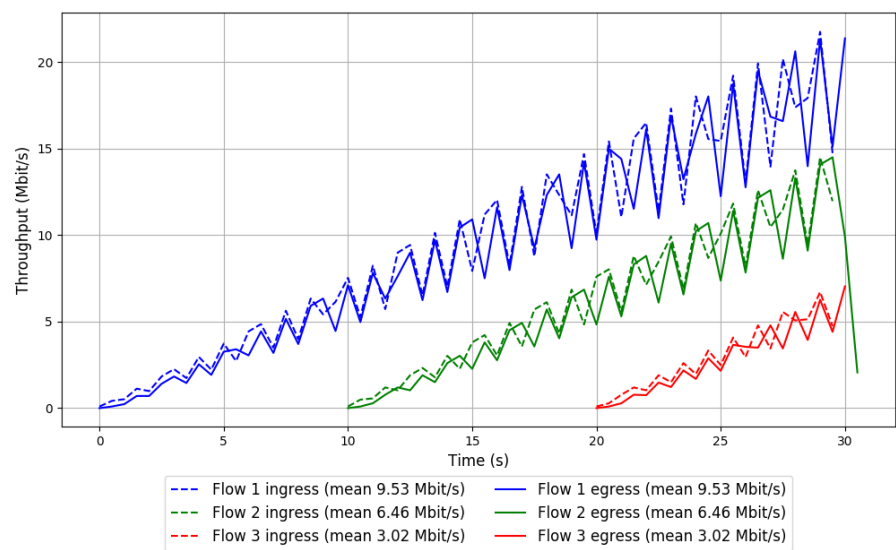


Run 1: Statistics of LEDBAT

Start at: 2019-03-27 01:33:41
End at: 2019-03-27 01:34:11
Local clock offset: 5.346 ms
Remote clock offset: -41.007 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 62.707 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 63.057 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 61.043 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 63.753 ms
Loss rate: 0.00%

Run 1: Report of LEDBAT — Data Link

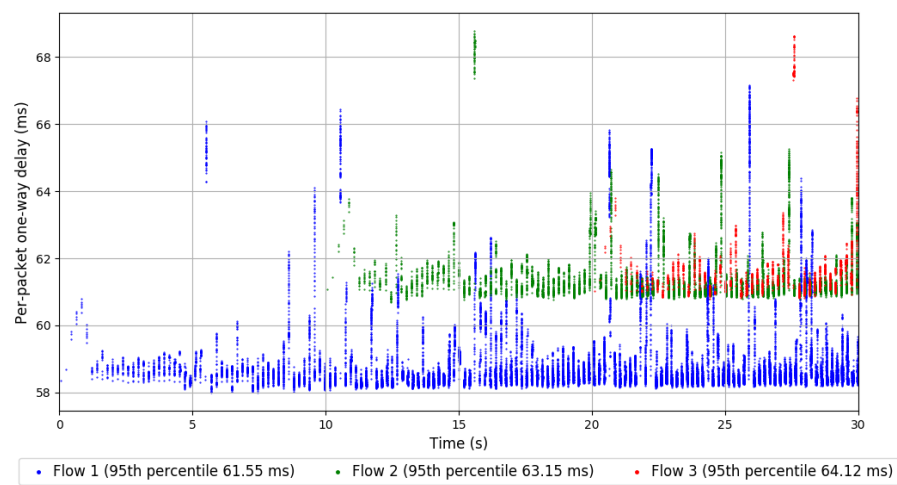
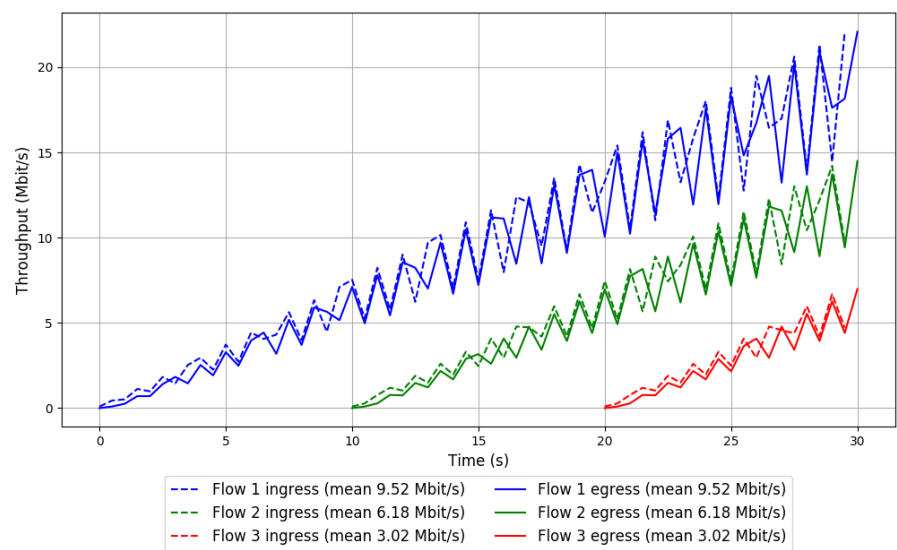


Run 2: Statistics of LEDBAT

Start at: 2019-03-27 02:15:47
End at: 2019-03-27 02:16:17
Local clock offset: 0.35 ms
Remote clock offset: -40.298 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 62.623 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 61.548 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.18 Mbit/s
95th percentile per-packet one-way delay: 63.154 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 64.119 ms
Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

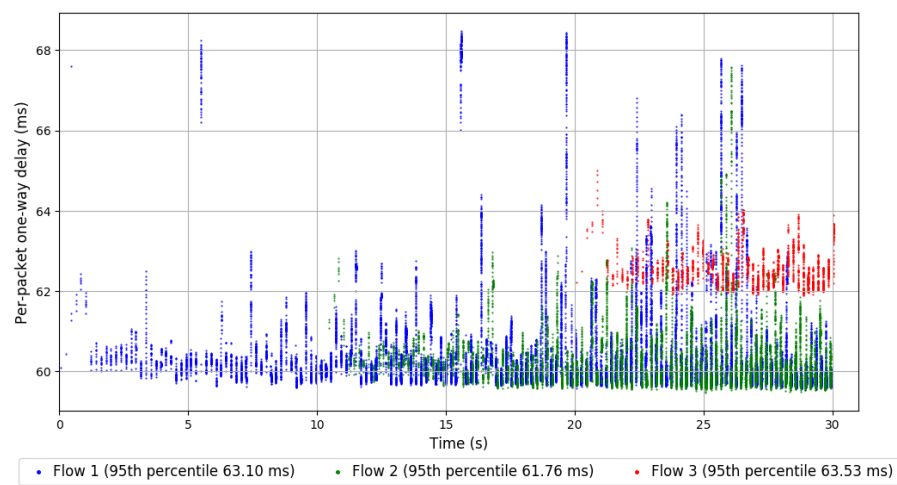
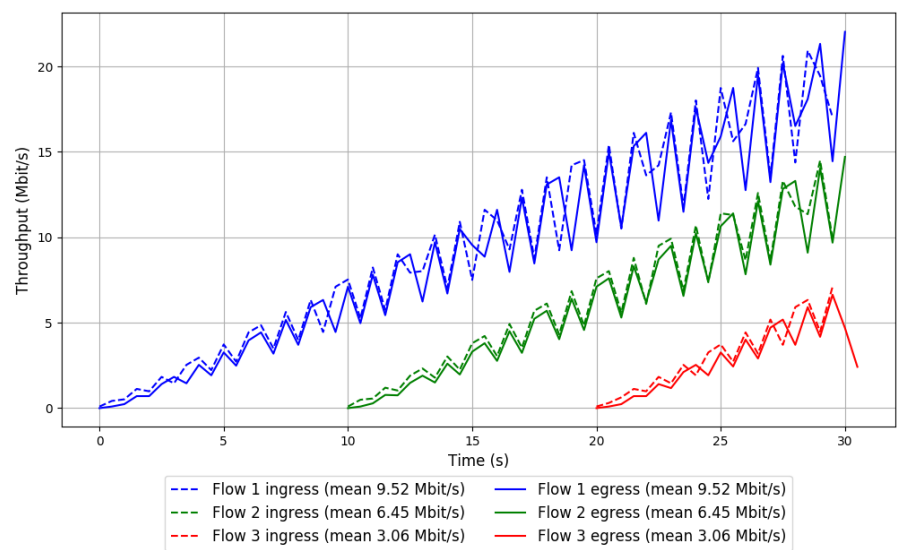


Run 3: Statistics of LEDBAT

Start at: 2019-03-27 02:51:59
End at: 2019-03-27 02:52:29
Local clock offset: 2.146 ms
Remote clock offset: -38.887 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.79 Mbit/s
95th percentile per-packet one-way delay: 62.957 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 63.099 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 61.760 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.06 Mbit/s
95th percentile per-packet one-way delay: 63.535 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link

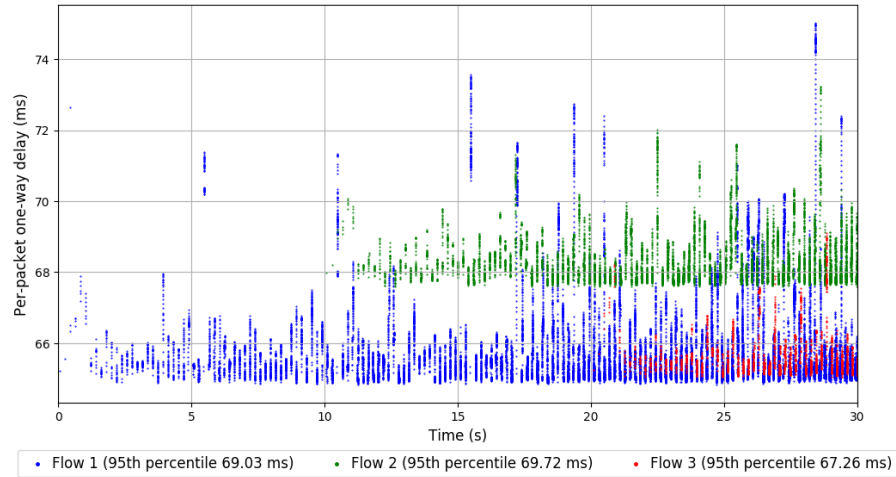
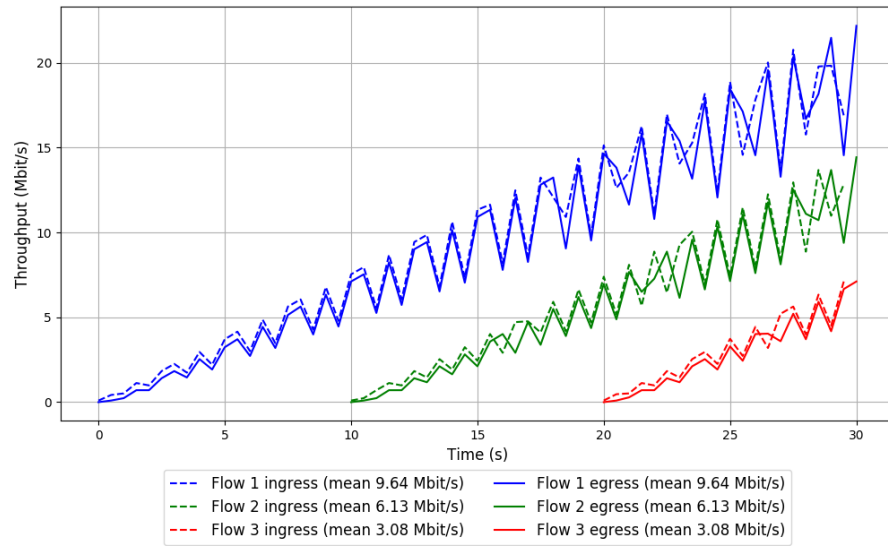


Run 4: Statistics of LEDBAT

Start at: 2019-03-27 03:28:01
End at: 2019-03-27 03:28:31
Local clock offset: 1.535 ms
Remote clock offset: -35.395 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 69.372 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.64 Mbit/s
95th percentile per-packet one-way delay: 69.028 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.13 Mbit/s
95th percentile per-packet one-way delay: 69.716 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.08 Mbit/s
95th percentile per-packet one-way delay: 67.260 ms
Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

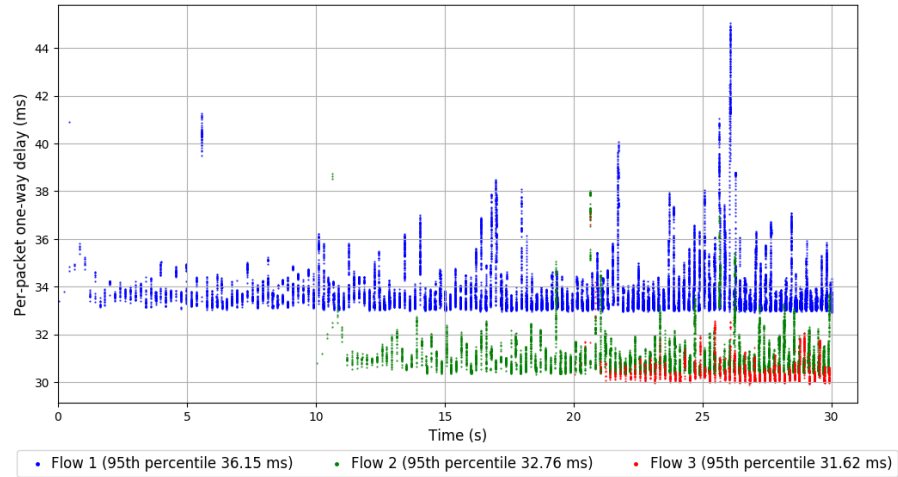
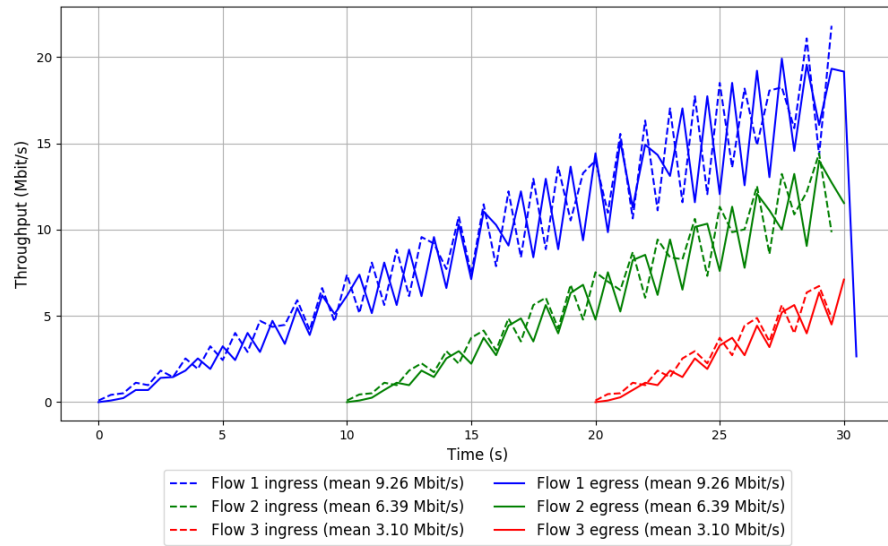


Run 5: Statistics of LEDBAT

Start at: 2019-03-27 04:04:27
End at: 2019-03-27 04:04:57
Local clock offset: 33.624 ms
Remote clock offset: -34.114 ms

Below is generated by plot.py at 2019-03-27 04:37:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.51 Mbit/s
95th percentile per-packet one-way delay: 35.535 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 9.26 Mbit/s
95th percentile per-packet one-way delay: 36.148 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.39 Mbit/s
95th percentile per-packet one-way delay: 32.757 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.10 Mbit/s
95th percentile per-packet one-way delay: 31.616 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 1: Statistics of PCC-Allegro

Start at: 2019-03-27 01:36:20

End at: 2019-03-27 01:36:50

Local clock offset: 5.413 ms

Remote clock offset: -30.641 ms

Below is generated by plot.py at 2019-03-27 04:38:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 338.65 Mbit/s

95th percentile per-packet one-way delay: 75.341 ms

Loss rate: 8.70%

-- Flow 1:

Average throughput: 291.13 Mbit/s

95th percentile per-packet one-way delay: 75.414 ms

Loss rate: 9.40%

-- Flow 2:

Average throughput: 68.87 Mbit/s

95th percentile per-packet one-way delay: 72.288 ms

Loss rate: 4.34%

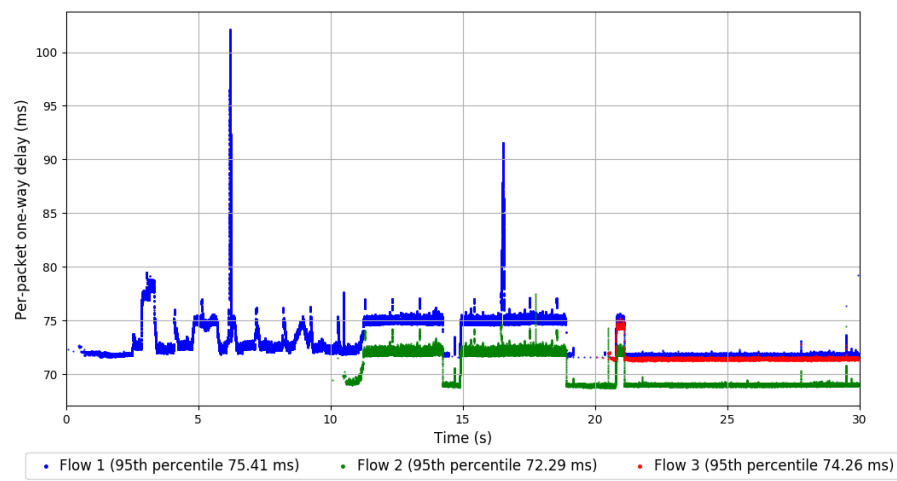
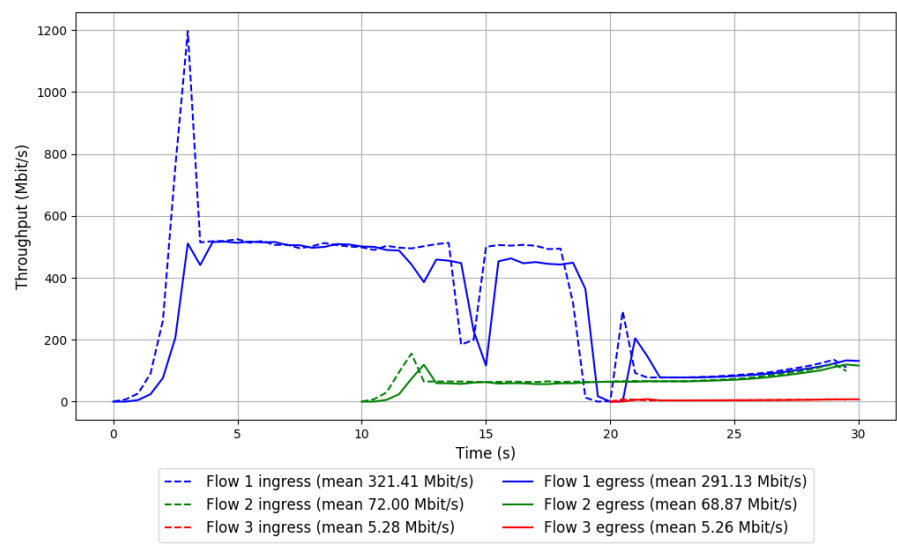
-- Flow 3:

Average throughput: 5.26 Mbit/s

95th percentile per-packet one-way delay: 74.259 ms

Loss rate: 0.45%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2019-03-27 02:18:26

End at: 2019-03-27 02:18:56

Local clock offset: 1.374 ms

Remote clock offset: -29.778 ms

Below is generated by plot.py at 2019-03-27 04:40:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 479.04 Mbit/s

95th percentile per-packet one-way delay: 71.947 ms

Loss rate: 4.41%

-- Flow 1:

Average throughput: 447.20 Mbit/s

95th percentile per-packet one-way delay: 71.769 ms

Loss rate: 4.57%

-- Flow 2:

Average throughput: 32.21 Mbit/s

95th percentile per-packet one-way delay: 71.971 ms

Loss rate: 1.85%

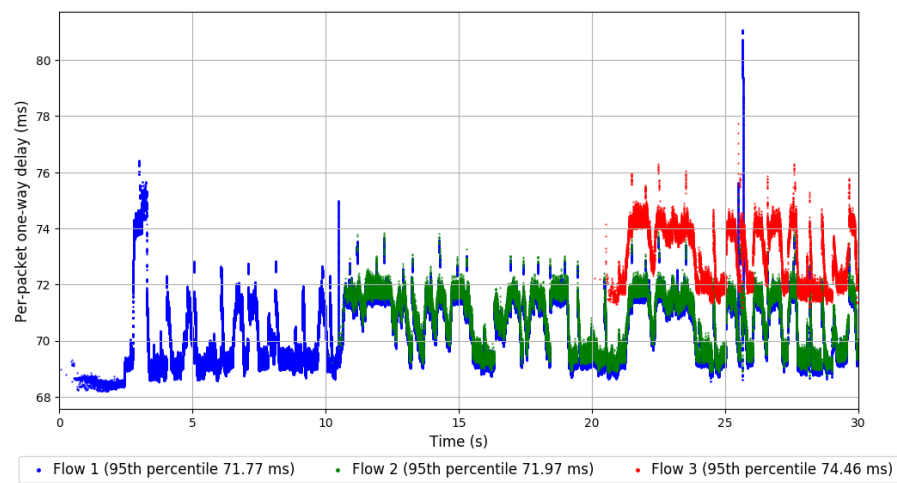
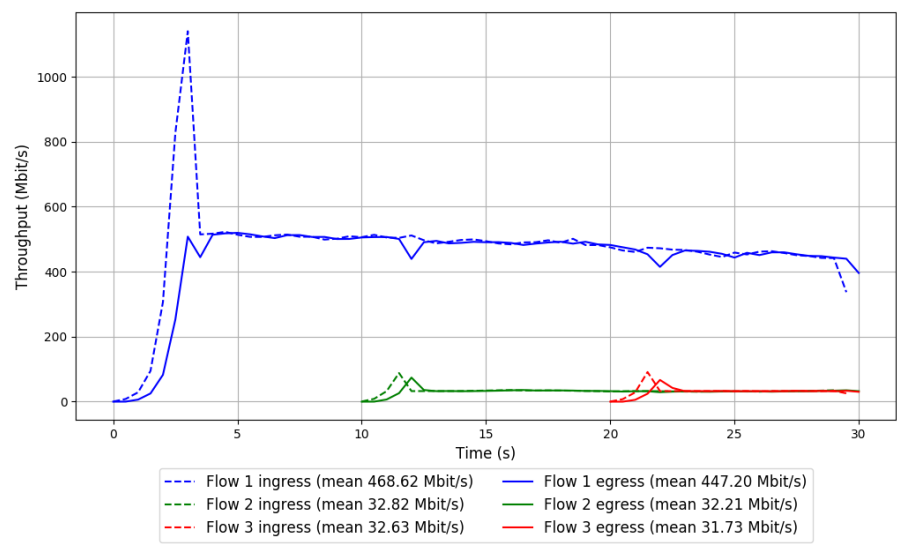
-- Flow 3:

Average throughput: 31.73 Mbit/s

95th percentile per-packet one-way delay: 74.463 ms

Loss rate: 2.76%

Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2019-03-27 02:54:38

End at: 2019-03-27 02:55:08

Local clock offset: 1.786 ms

Remote clock offset: -33.393 ms

Below is generated by plot.py at 2019-03-27 04:41:07

Datalink statistics

-- Total of 3 flows:

Average throughput: 473.52 Mbit/s

95th percentile per-packet one-way delay: 68.033 ms

Loss rate: 4.24%

-- Flow 1:

Average throughput: 450.25 Mbit/s

95th percentile per-packet one-way delay: 68.039 ms

Loss rate: 4.37%

-- Flow 2:

Average throughput: 33.90 Mbit/s

95th percentile per-packet one-way delay: 67.922 ms

Loss rate: 1.62%

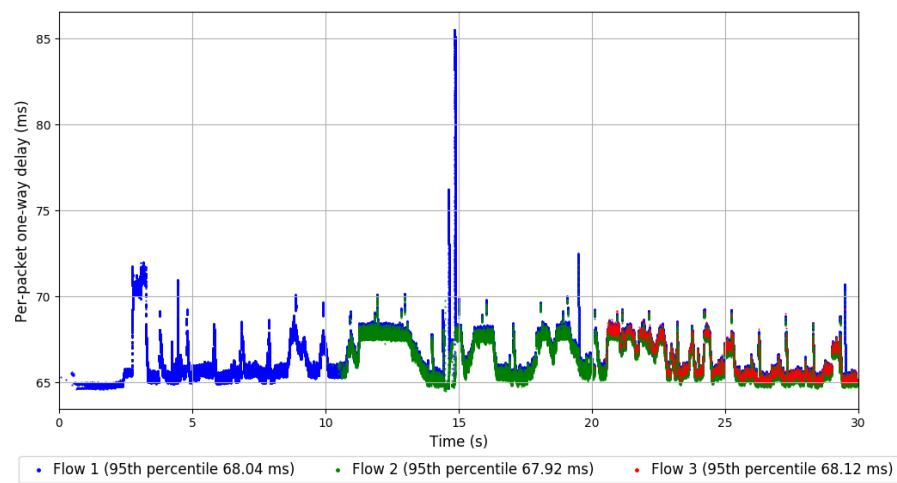
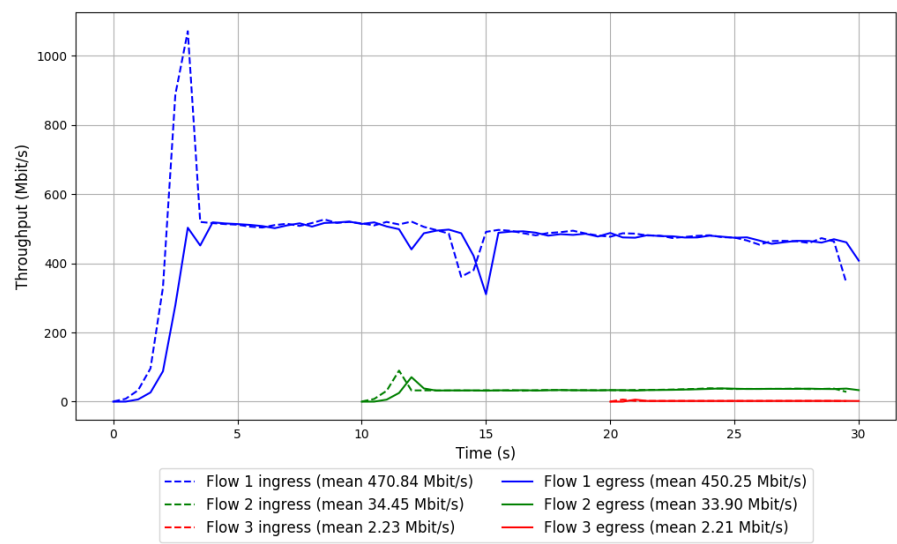
-- Flow 3:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 68.120 ms

Loss rate: 0.64%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-03-27 03:30:40

End at: 2019-03-27 03:31:10

Local clock offset: 2.834 ms

Remote clock offset: -34.684 ms

Below is generated by plot.py at 2019-03-27 04:41:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 386.86 Mbit/s

95th percentile per-packet one-way delay: 71.083 ms

Loss rate: 6.70%

-- Flow 1:

Average throughput: 195.08 Mbit/s

95th percentile per-packet one-way delay: 72.849 ms

Loss rate: 9.55%

-- Flow 2:

Average throughput: 272.91 Mbit/s

95th percentile per-packet one-way delay: 68.190 ms

Loss rate: 3.66%

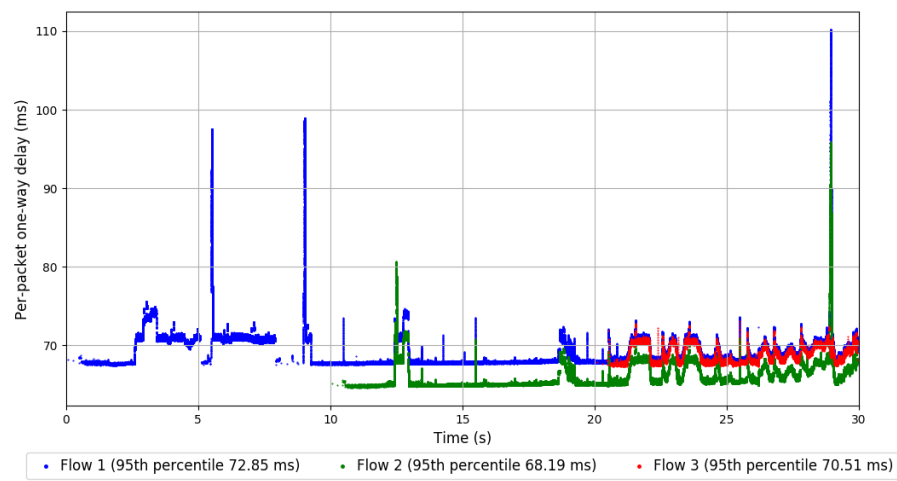
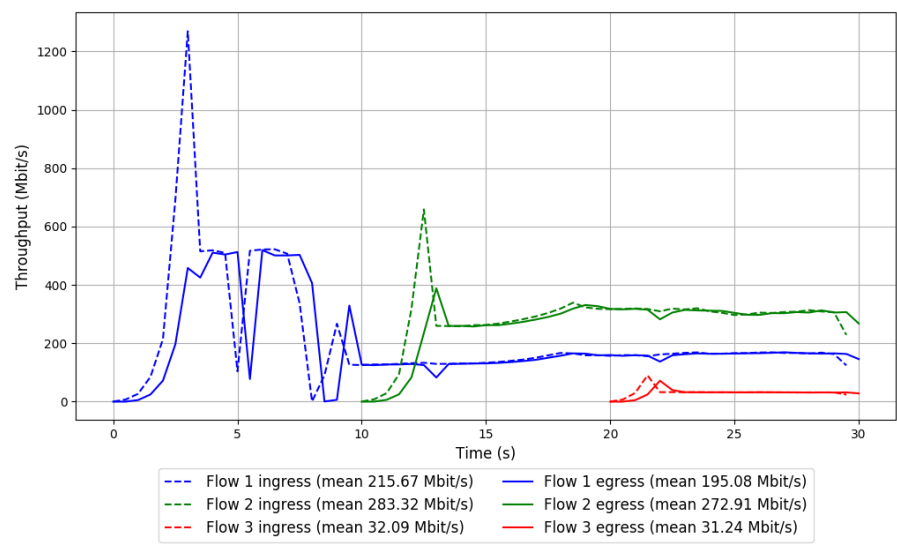
-- Flow 3:

Average throughput: 31.24 Mbit/s

95th percentile per-packet one-way delay: 70.507 ms

Loss rate: 2.63%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-03-27 04:07:11

End at: 2019-03-27 04:07:41

Local clock offset: 34.161 ms

Remote clock offset: -40.275 ms

Below is generated by plot.py at 2019-03-27 04:42:59

Datalink statistics

-- Total of 3 flows:

Average throughput: 470.40 Mbit/s

95th percentile per-packet one-way delay: 27.808 ms

Loss rate: 4.31%

-- Flow 1:

Average throughput: 444.31 Mbit/s

95th percentile per-packet one-way delay: 26.803 ms

Loss rate: 4.46%

-- Flow 2:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 29.138 ms

Loss rate: 1.65%

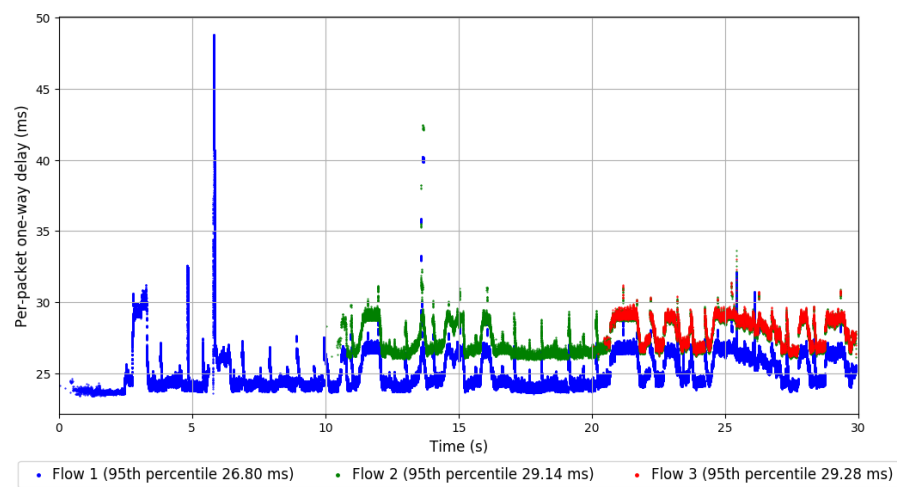
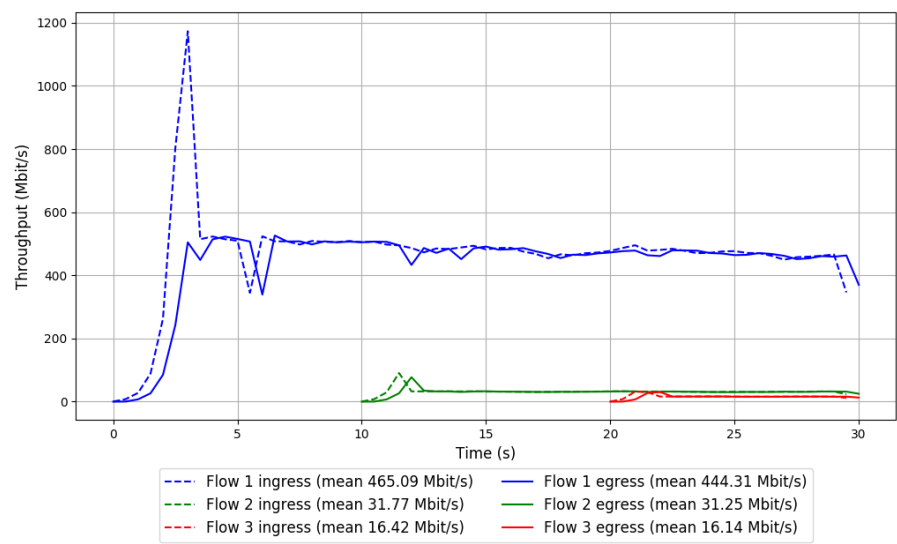
-- Flow 3:

Average throughput: 16.14 Mbit/s

95th percentile per-packet one-way delay: 29.280 ms

Loss rate: 1.71%

Run 5: Report of PCC-Allegro — Data Link

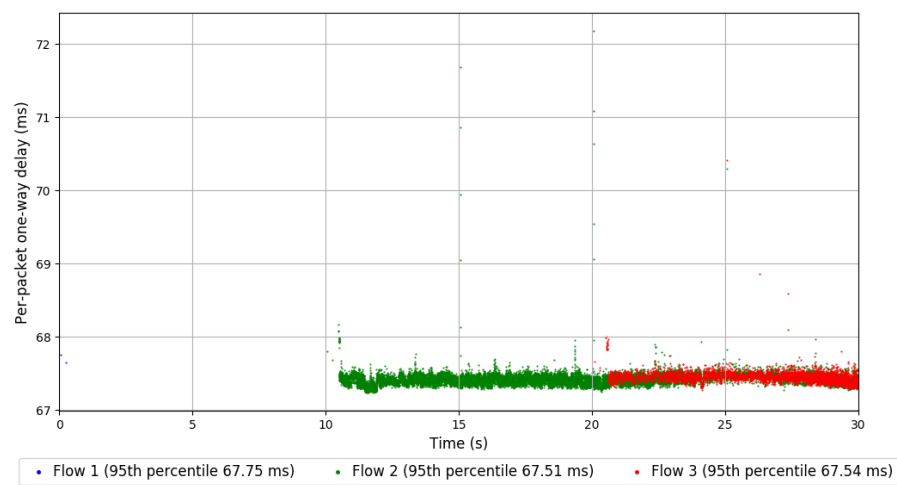
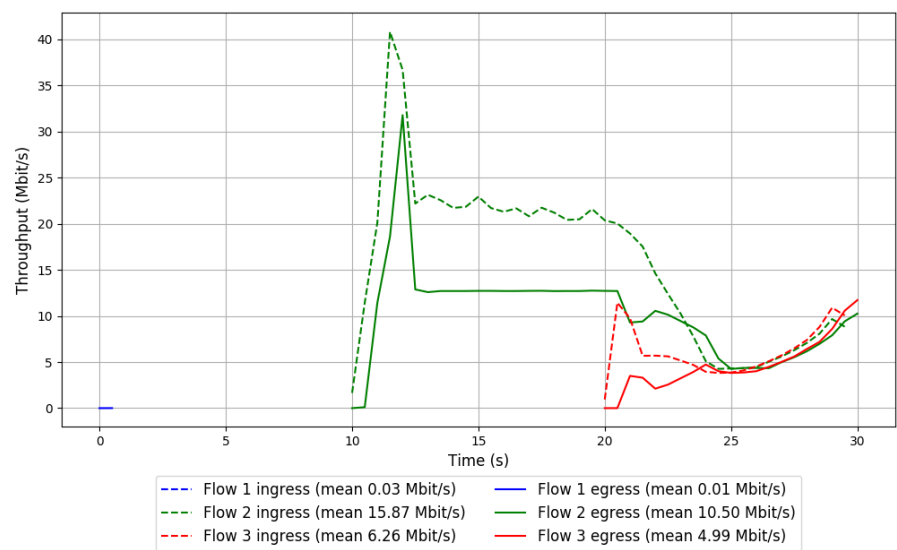



```
Run 1: Statistics of PCC-Expr

Start at: 2019-03-27 01:22:35
End at: 2019-03-27 01:23:05
Local clock offset: 5.813 ms
Remote clock offset: -35.23 ms

# Below is generated by plot.py at 2019-03-27 04:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.63 Mbit/s
95th percentile per-packet one-way delay: 67.516 ms
Loss rate: 31.61%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 67.751 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 10.50 Mbit/s
95th percentile per-packet one-way delay: 67.508 ms
Loss rate: 33.84%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 67.541 ms
Loss rate: 20.23%
```

Run 1: Report of PCC-Expr — Data Link

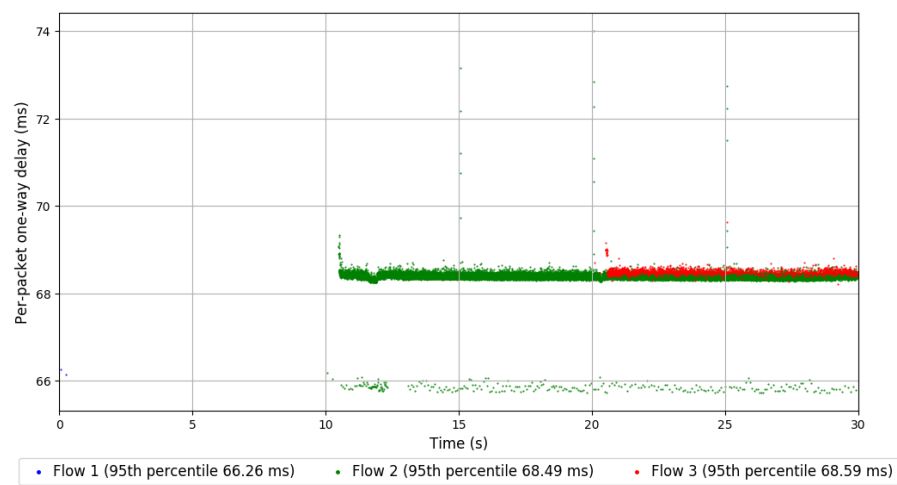
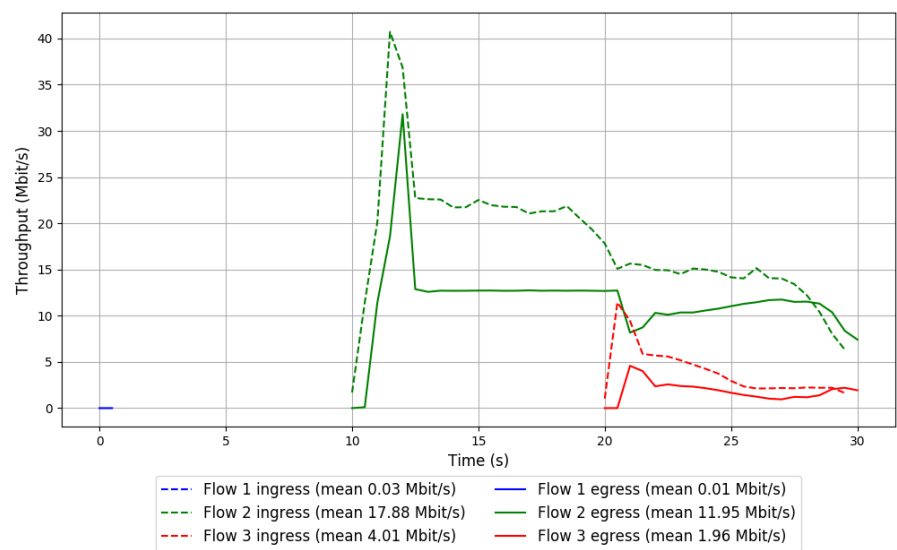


Run 2: Statistics of PCC-Expr

Start at: 2019-03-27 02:04:15
End at: 2019-03-27 02:04:45
Local clock offset: 0.408 ms
Remote clock offset: -33.214 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.59 Mbit/s
95th percentile per-packet one-way delay: 68.515 ms
Loss rate: 34.96%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 66.258 ms
Loss rate: 85.71%
-- Flow 2:
Average throughput: 11.95 Mbit/s
95th percentile per-packet one-way delay: 68.491 ms
Loss rate: 33.16%
-- Flow 3:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 68.586 ms
Loss rate: 51.16%

Run 2: Report of PCC-Expr — Data Link

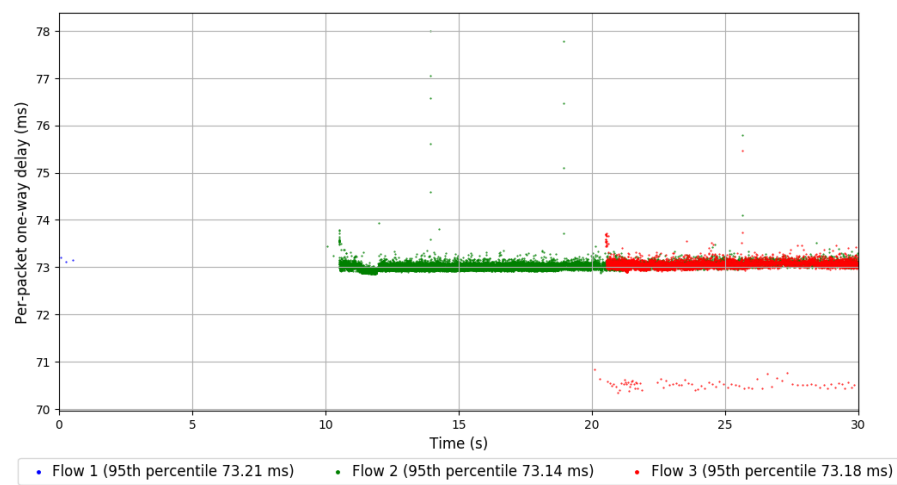
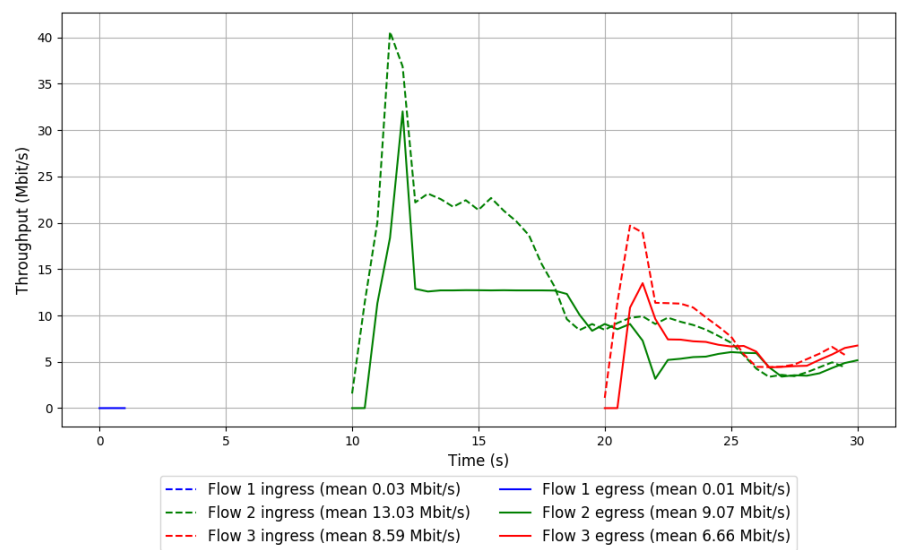


Run 3: Statistics of PCC-Expr

Start at: 2019-03-27 02:40:49
End at: 2019-03-27 02:41:19
Local clock offset: 1.906 ms
Remote clock offset: -30.158 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.23 Mbit/s
95th percentile per-packet one-way delay: 73.155 ms
Loss rate: 28.47%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 73.211 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 9.07 Mbit/s
95th percentile per-packet one-way delay: 73.142 ms
Loss rate: 30.44%
-- Flow 3:
Average throughput: 6.66 Mbit/s
95th percentile per-packet one-way delay: 73.181 ms
Loss rate: 22.42%

Run 3: Report of PCC-Expr — Data Link

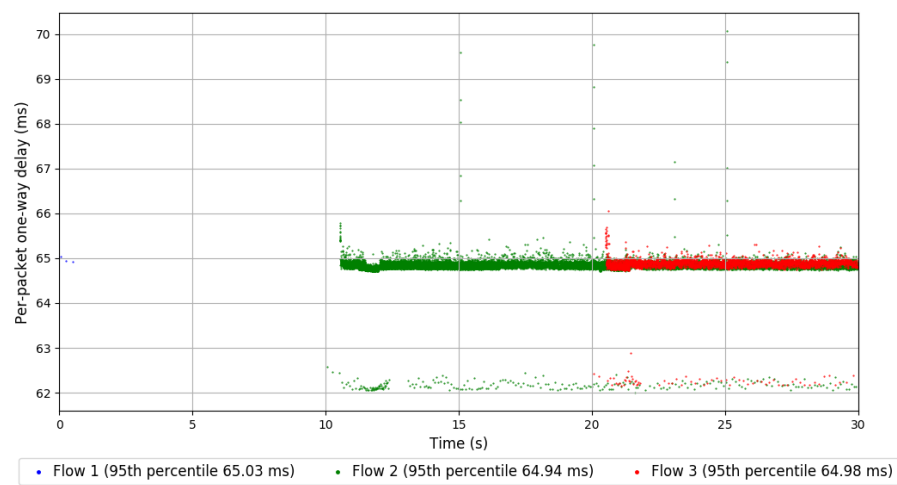
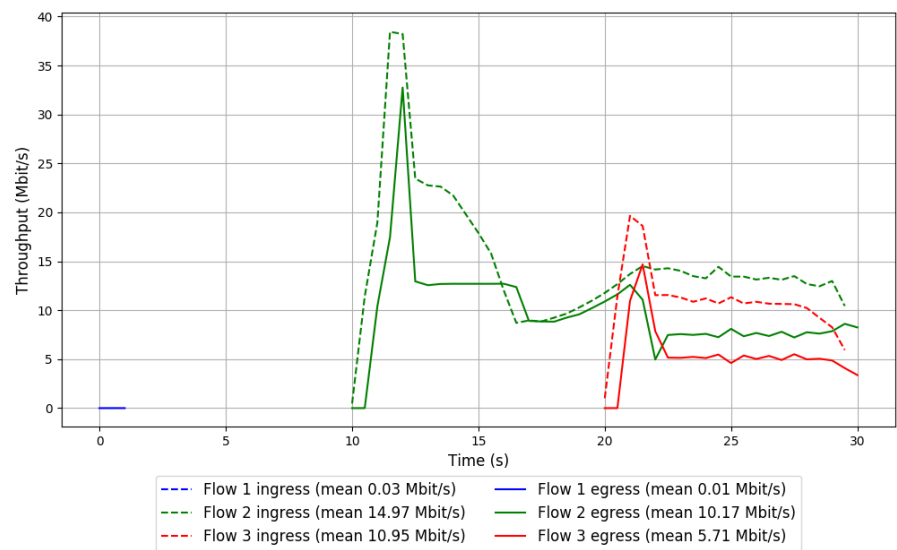


Run 4: Statistics of PCC-Expr

Start at: 2019-03-27 03:11:21
End at: 2019-03-27 03:11:51
Local clock offset: 1.738 ms
Remote clock offset: -34.38 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.65 Mbit/s
95th percentile per-packet one-way delay: 64.957 ms
Loss rate: 36.26%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 65.034 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 64.945 ms
Loss rate: 32.03%
-- Flow 3:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 64.976 ms
Loss rate: 47.87%

Run 4: Report of PCC-Expr — Data Link

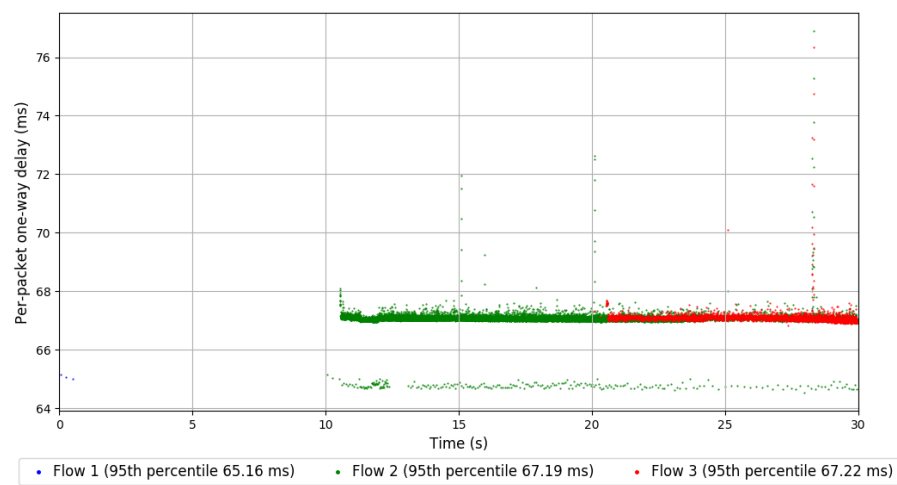
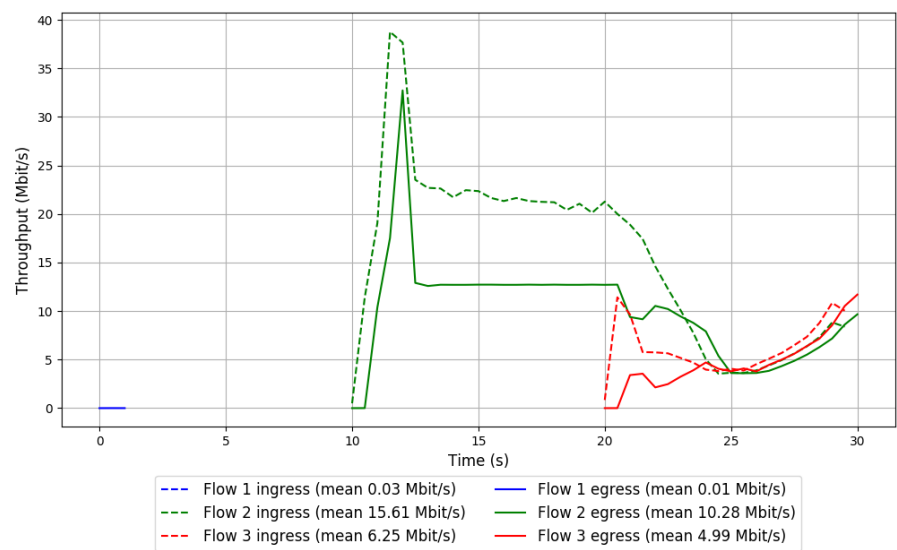


Run 5: Statistics of PCC-Expr

Start at: 2019-03-27 03:52:57
End at: 2019-03-27 03:53:27
Local clock offset: 0.744 ms
Remote clock offset: -35.023 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.48 Mbit/s
95th percentile per-packet one-way delay: 67.199 ms
Loss rate: 31.84%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 65.162 ms
Loss rate: 80.00%
-- Flow 2:
Average throughput: 10.28 Mbit/s
95th percentile per-packet one-way delay: 67.195 ms
Loss rate: 34.16%
-- Flow 3:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 67.218 ms
Loss rate: 20.19%

Run 5: Report of PCC-Expr — Data Link

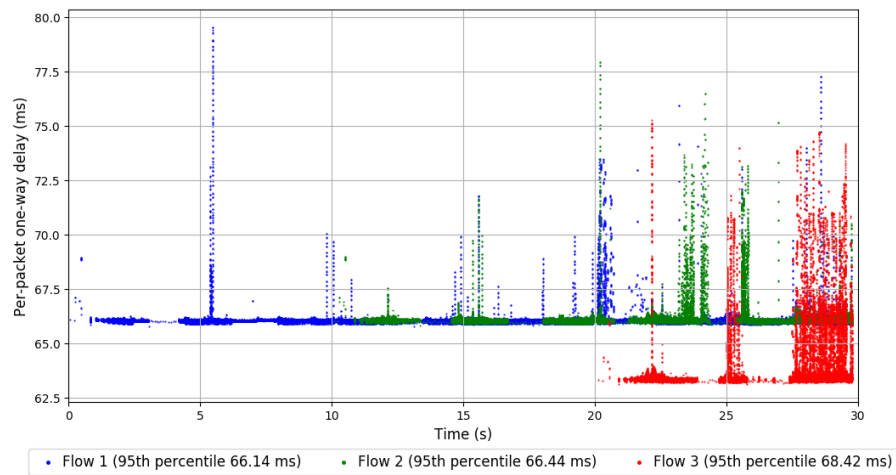
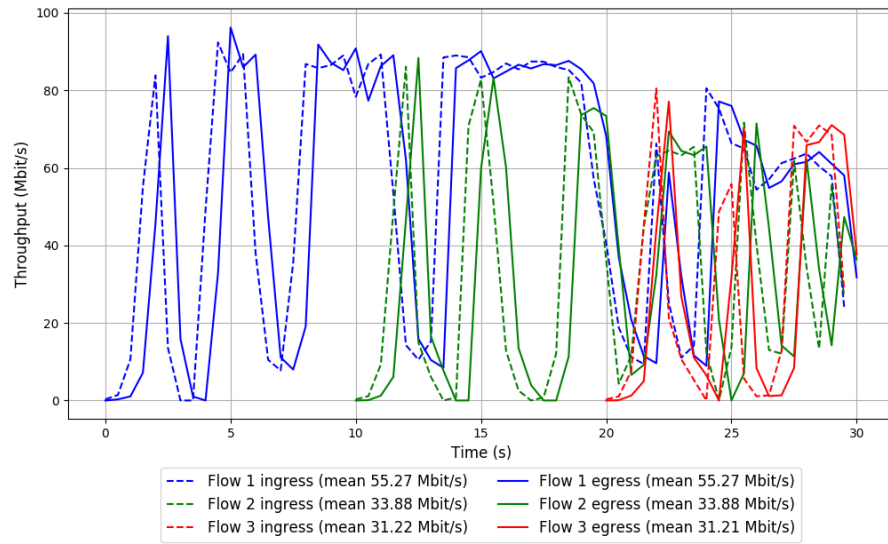


Run 1: Statistics of QUIC Cubic

Start at: 2019-03-27 01:29:26
End at: 2019-03-27 01:29:56
Local clock offset: 4.435 ms
Remote clock offset: -37.599 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.86 Mbit/s
95th percentile per-packet one-way delay: 66.235 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.27 Mbit/s
95th percentile per-packet one-way delay: 66.141 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 66.441 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 31.21 Mbit/s
95th percentile per-packet one-way delay: 68.424 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link

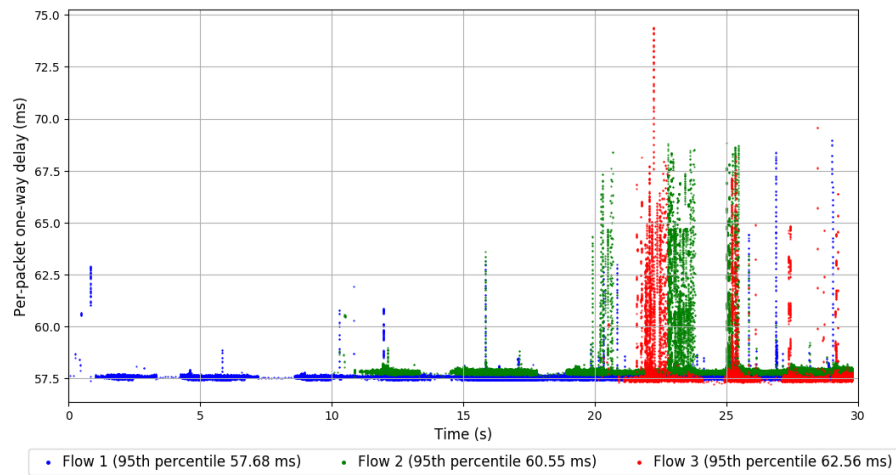
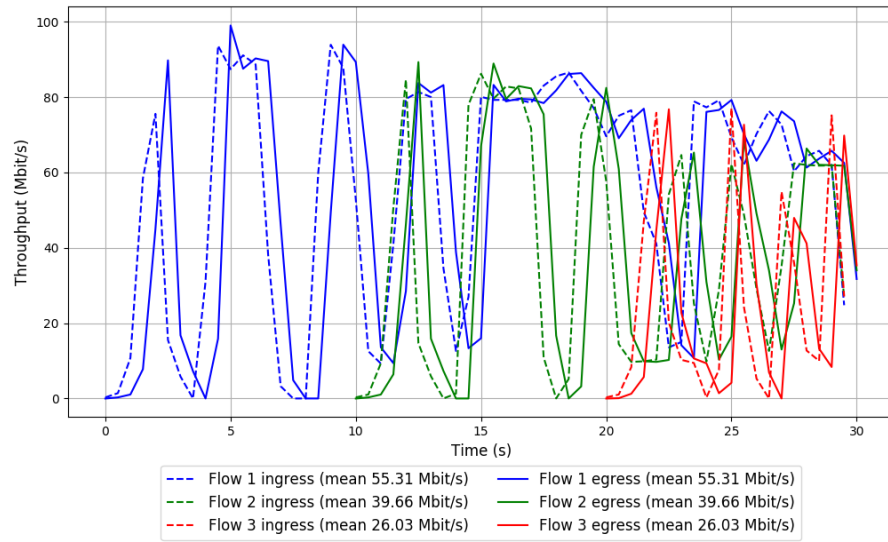


Run 2: Statistics of QUIC Cubic

Start at: 2019-03-27 02:11:32
End at: 2019-03-27 02:12:02
Local clock offset: 1.596 ms
Remote clock offset: -39.874 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 57.980 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.31 Mbit/s
95th percentile per-packet one-way delay: 57.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.66 Mbit/s
95th percentile per-packet one-way delay: 60.555 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 26.03 Mbit/s
95th percentile per-packet one-way delay: 62.559 ms
Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

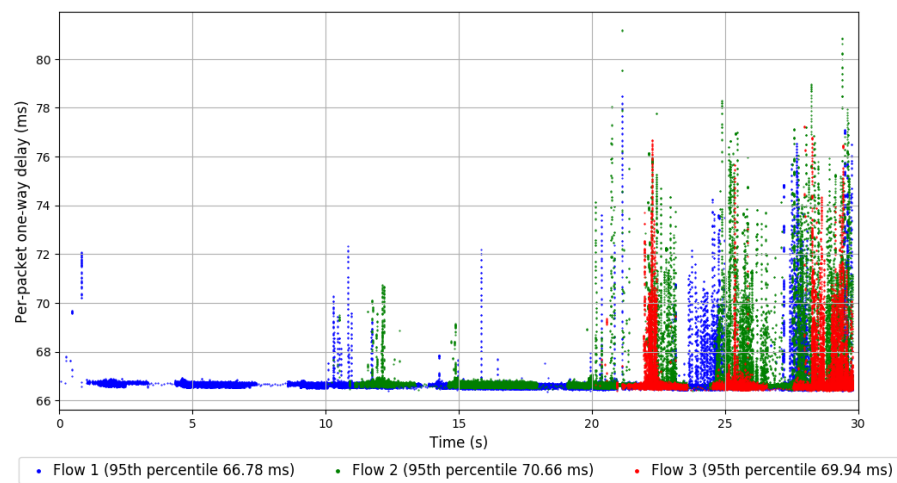
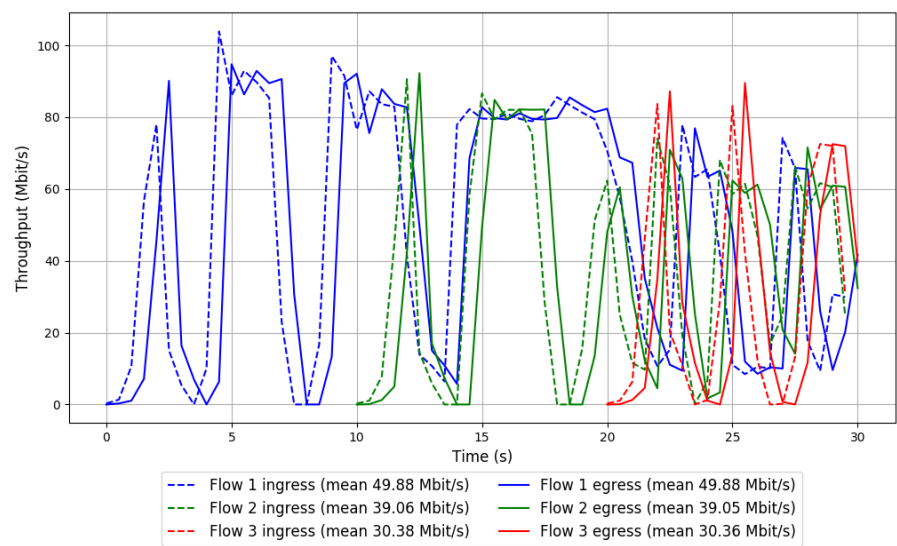


Run 3: Statistics of QUIC Cubic

Start at: 2019-03-27 02:47:45
End at: 2019-03-27 02:48:15
Local clock offset: 2.922 ms
Remote clock offset: -34.691 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.60 Mbit/s
95th percentile per-packet one-way delay: 68.863 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 49.88 Mbit/s
95th percentile per-packet one-way delay: 66.777 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 70.663 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 69.937 ms
Loss rate: 0.07%

Run 3: Report of QUIC Cubic — Data Link

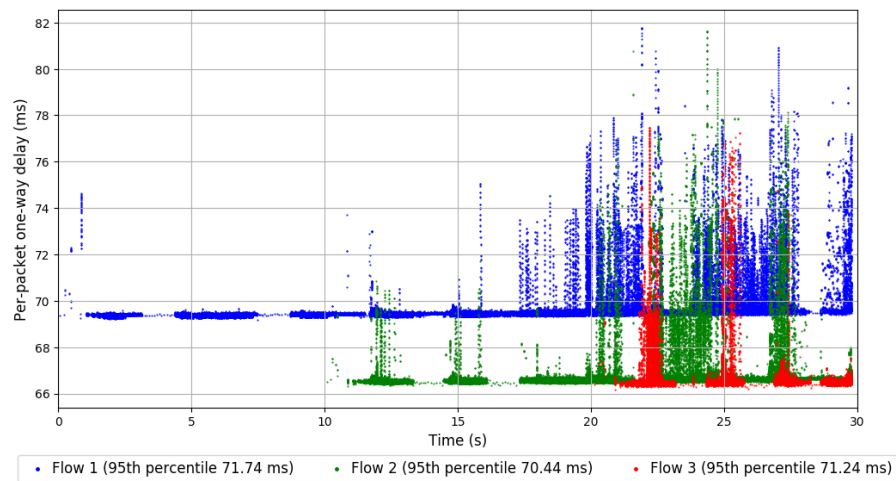
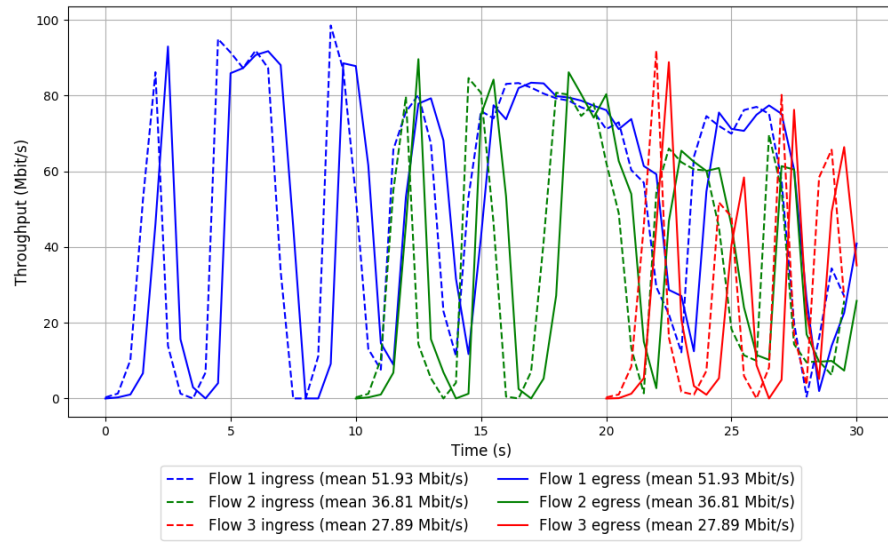


Run 4: Statistics of QUIC Cubic

Start at: 2019-03-27 03:18:14
End at: 2019-03-27 03:18:44
Local clock offset: 0.296 ms
Remote clock offset: -32.463 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 71.462 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 51.93 Mbit/s
95th percentile per-packet one-way delay: 71.742 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.81 Mbit/s
95th percentile per-packet one-way delay: 70.443 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 27.89 Mbit/s
95th percentile per-packet one-way delay: 71.236 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link

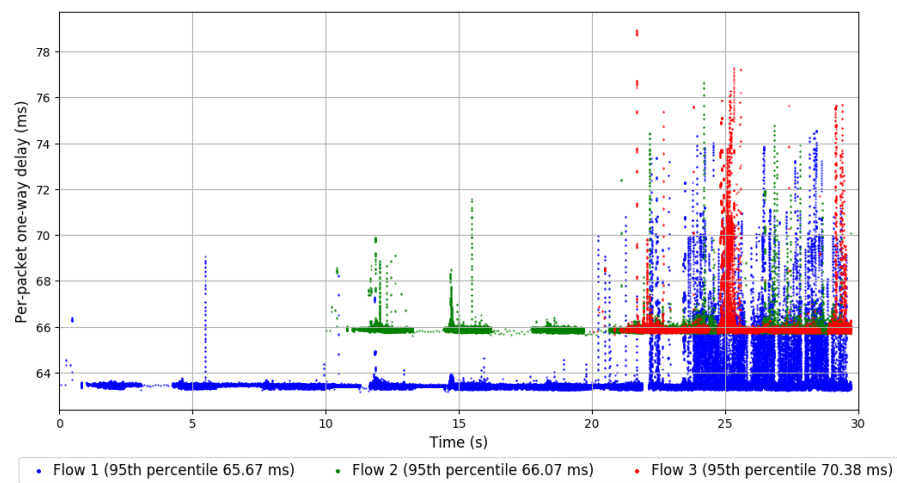
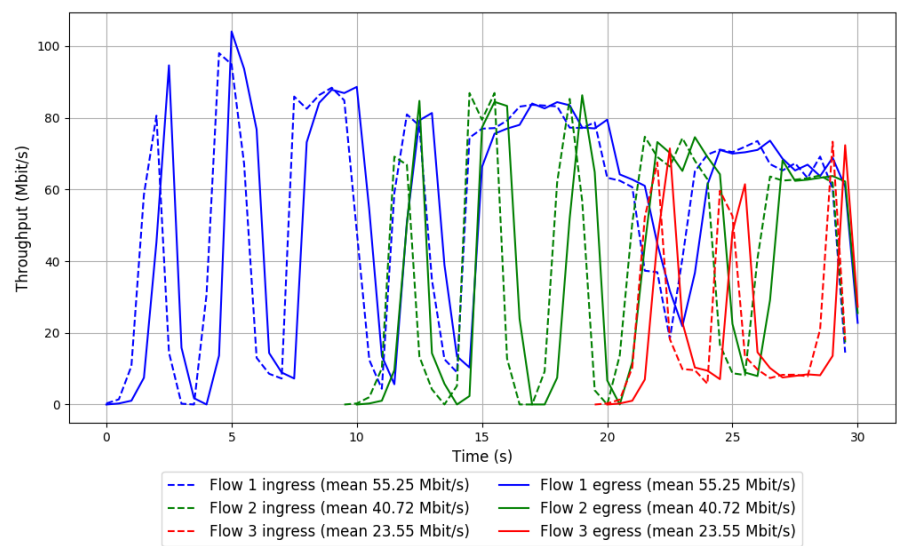


Run 5: Statistics of QUIC Cubic

Start at: 2019-03-27 04:00:02
End at: 2019-03-27 04:00:32
Local clock offset: -0.104 ms
Remote clock offset: -35.498 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.96 Mbit/s
95th percentile per-packet one-way delay: 66.099 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.25 Mbit/s
95th percentile per-packet one-way delay: 65.665 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.72 Mbit/s
95th percentile per-packet one-way delay: 66.066 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.55 Mbit/s
95th percentile per-packet one-way delay: 70.377 ms
Loss rate: 0.00%

Run 5: Report of QUIC Cubic — Data Link

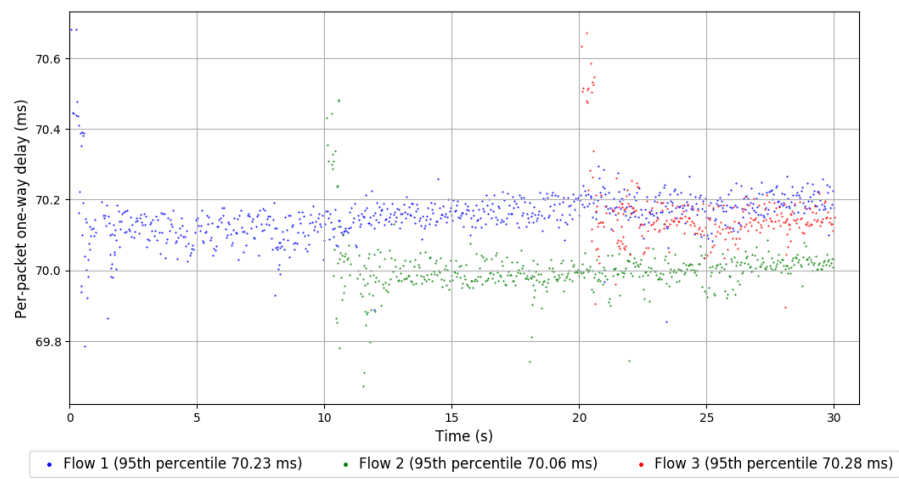
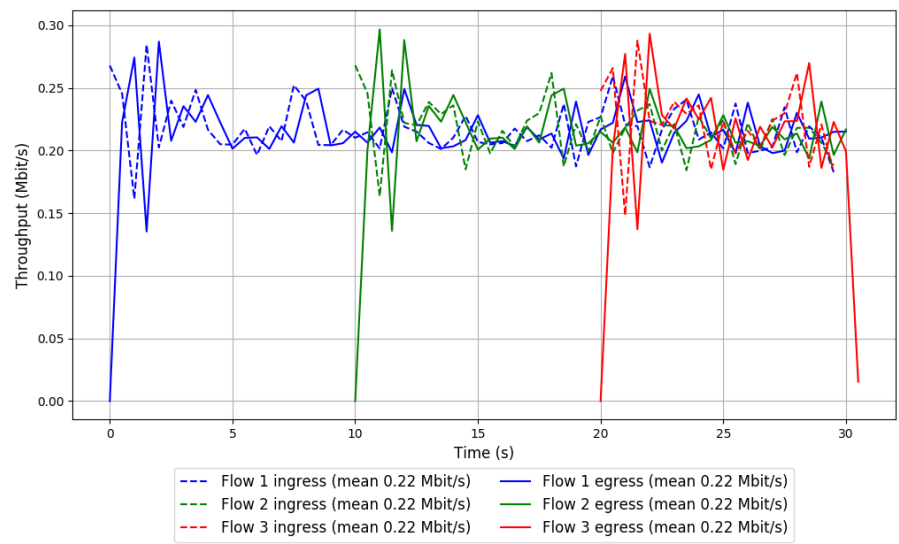


Run 1: Statistics of SReAM

Start at: 2019-03-27 01:06:19
End at: 2019-03-27 01:06:49
Local clock offset: 4.527 ms
Remote clock offset: -31.004 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 70.227 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.230 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.060 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 70.283 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

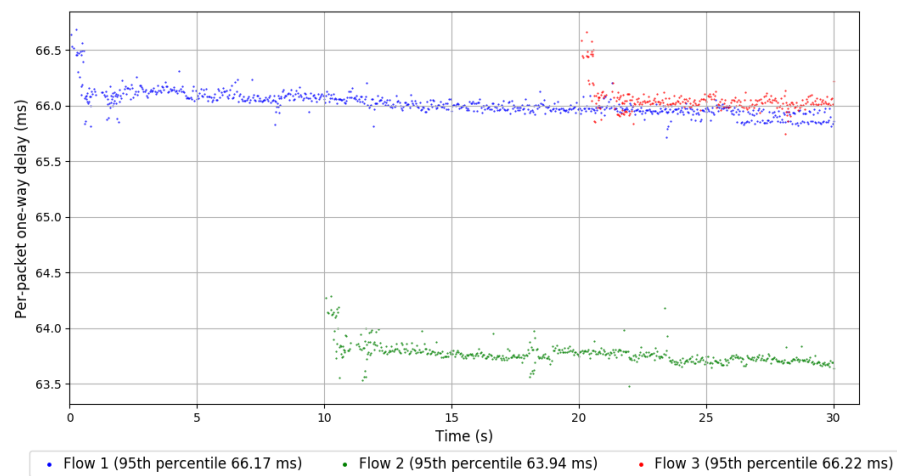
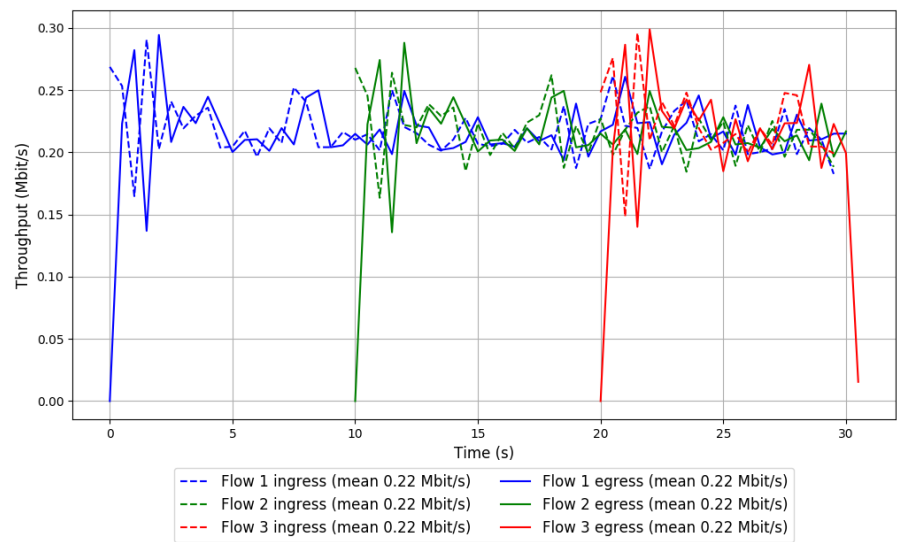


Run 2: Statistics of SReAM

Start at: 2019-03-27 01:48:06
End at: 2019-03-27 01:48:36
Local clock offset: 3.861 ms
Remote clock offset: -36.205 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 66.144 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 63.941 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.224 ms
Loss rate: 0.00%

Run 2: Report of SCSReAM — Data Link

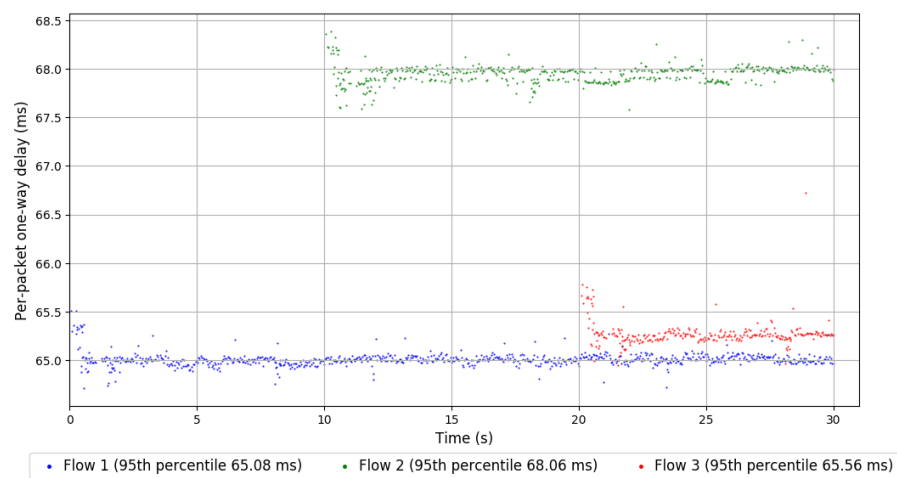
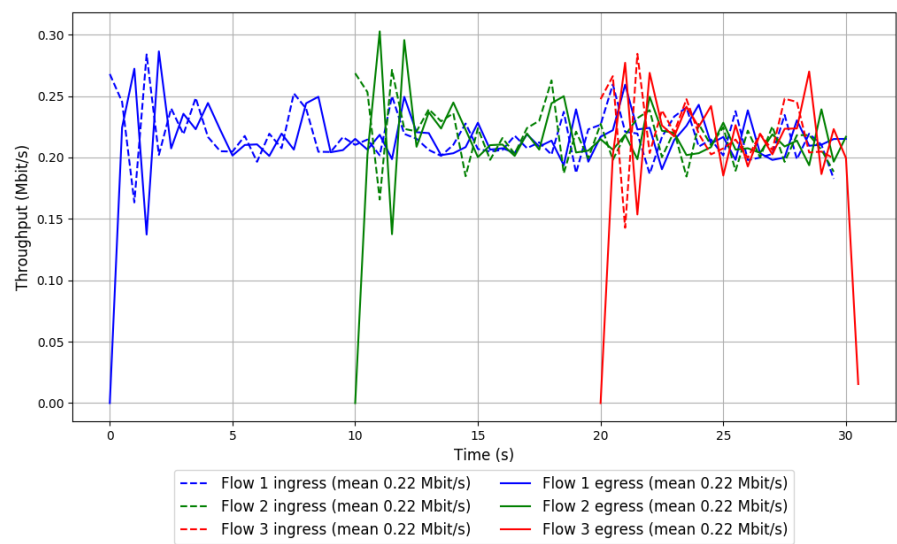


Run 3: Statistics of SReAM

Start at: 2019-03-27 02:24:42
End at: 2019-03-27 02:25:12
Local clock offset: 1.384 ms
Remote clock offset: -34.74 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 68.010 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.083 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.055 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.555 ms
Loss rate: 0.00%

Run 3: Report of SReAM — Data Link

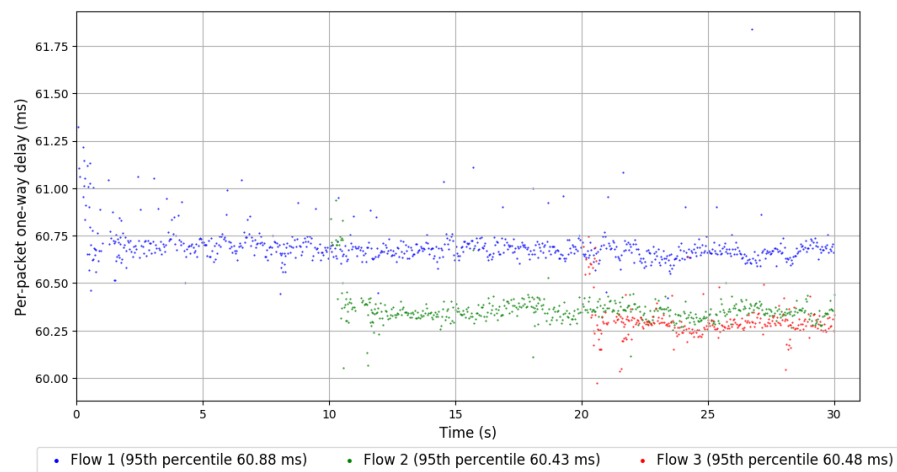
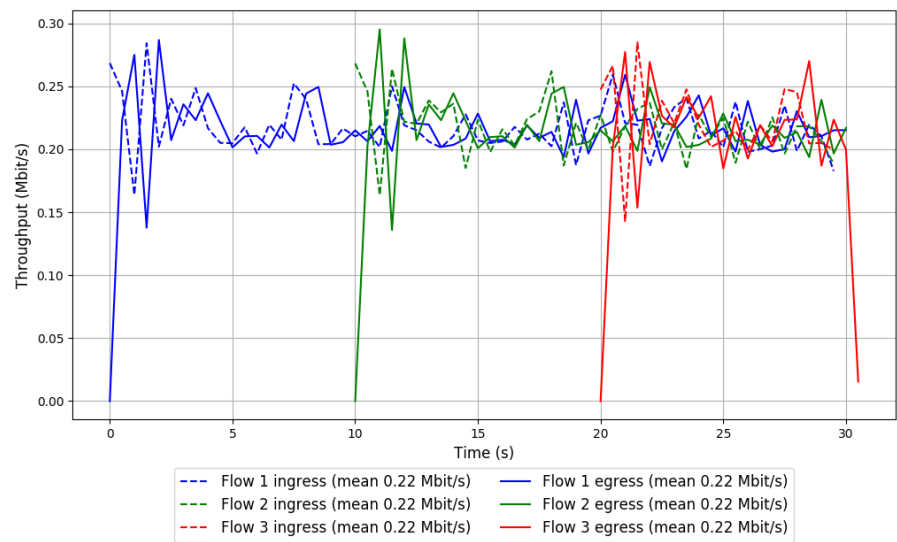


Run 4: Statistics of SReAM

Start at: 2019-03-27 03:00:54
End at: 2019-03-27 03:01:24
Local clock offset: -0.522 ms
Remote clock offset: -39.503 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 60.748 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.885 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.431 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 60.481 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link

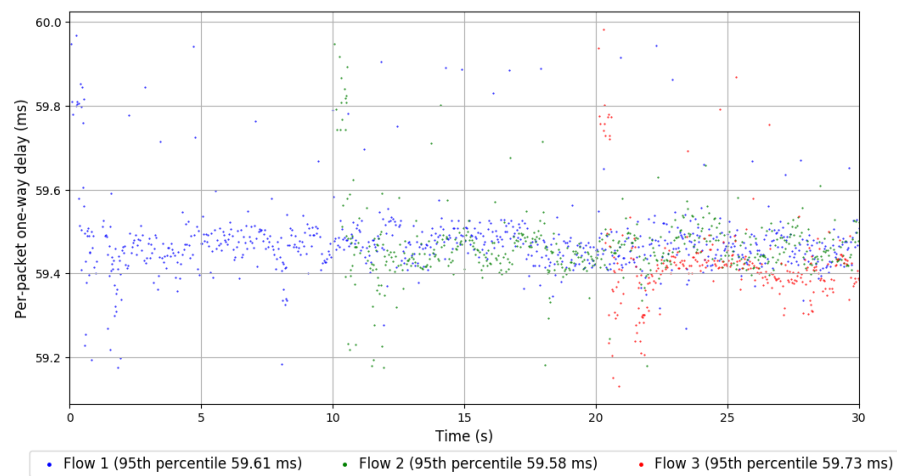
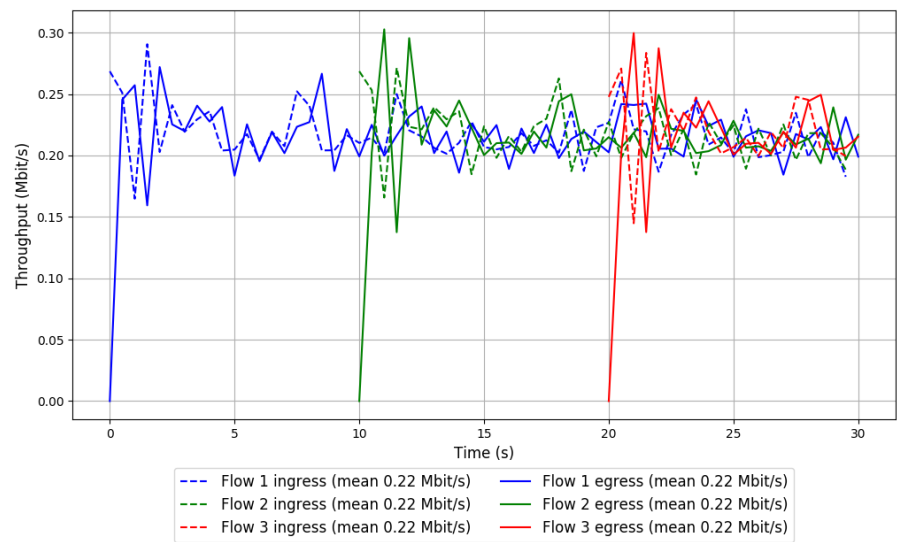


Run 5: Statistics of SReAM

Start at: 2019-03-27 03:42:24
End at: 2019-03-27 03:42:54
Local clock offset: 3.766 ms
Remote clock offset: -42.721 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 59.597 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.606 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.580 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 59.728 ms
Loss rate: 0.00%

Run 5: Report of SReAM — Data Link

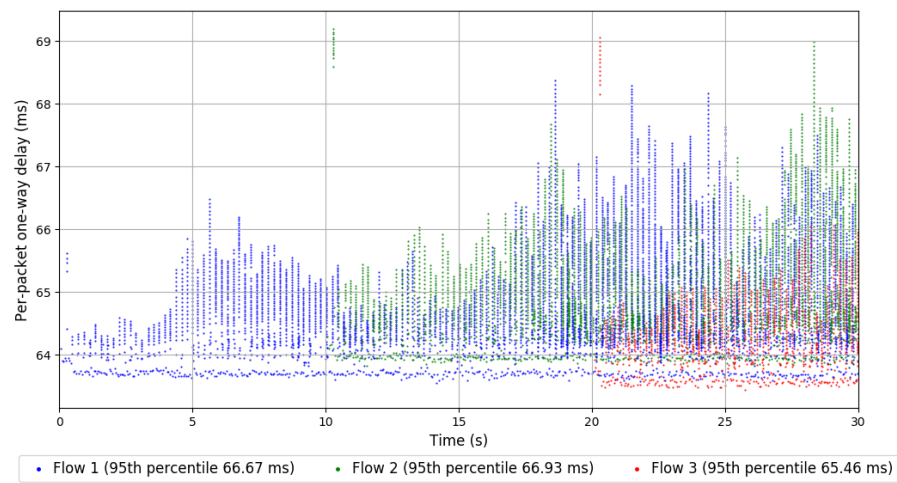
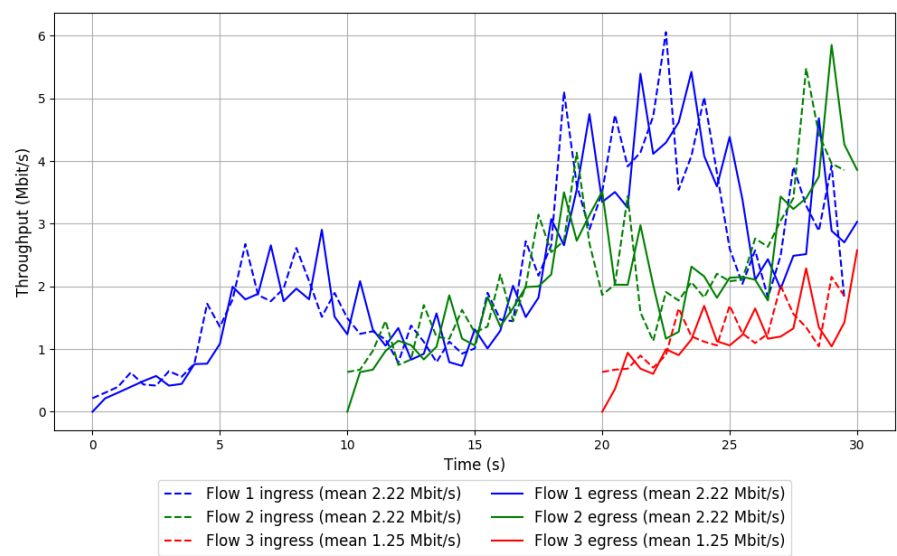


Run 1: Statistics of Sprout

Start at: 2019-03-27 01:30:50
End at: 2019-03-27 01:31:20
Local clock offset: 4.82 ms
Remote clock offset: -36.986 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.11 Mbit/s
95th percentile per-packet one-way delay: 66.722 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 66.667 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 66.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.25 Mbit/s
95th percentile per-packet one-way delay: 65.463 ms
Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

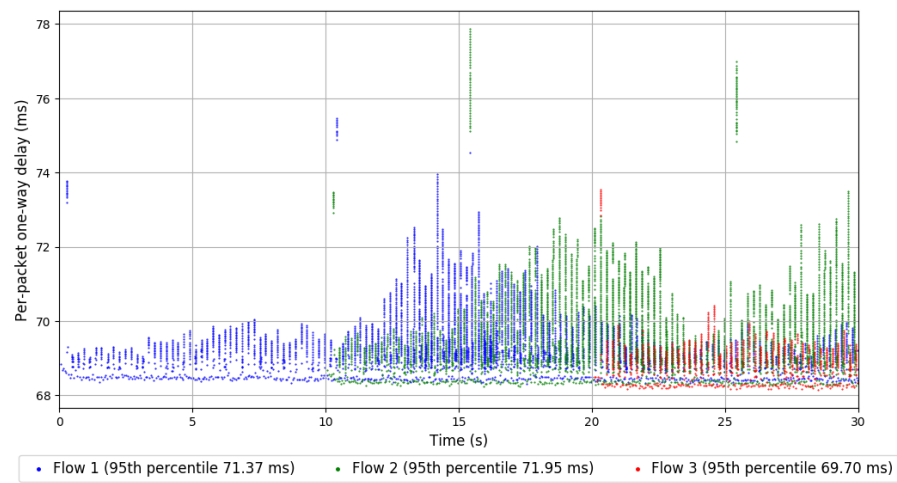
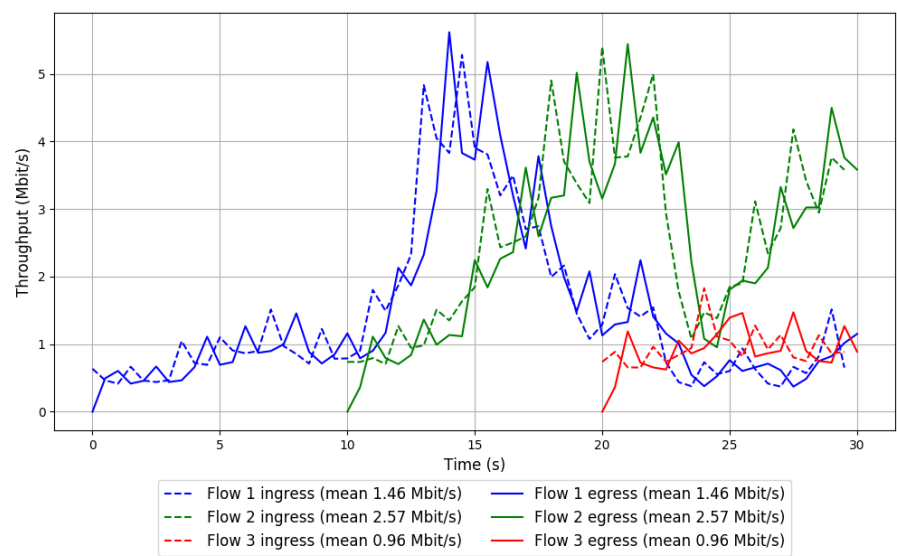


Run 2: Statistics of Sprout

Start at: 2019-03-27 02:12:56
End at: 2019-03-27 02:13:26
Local clock offset: -0.365 ms
Remote clock offset: -33.34 ms

```
# Below is generated by plot.py at 2019-03-27 04:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.49 Mbit/s
95th percentile per-packet one-way delay: 71.663 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 71.366 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.57 Mbit/s
95th percentile per-packet one-way delay: 71.947 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 69.696 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link

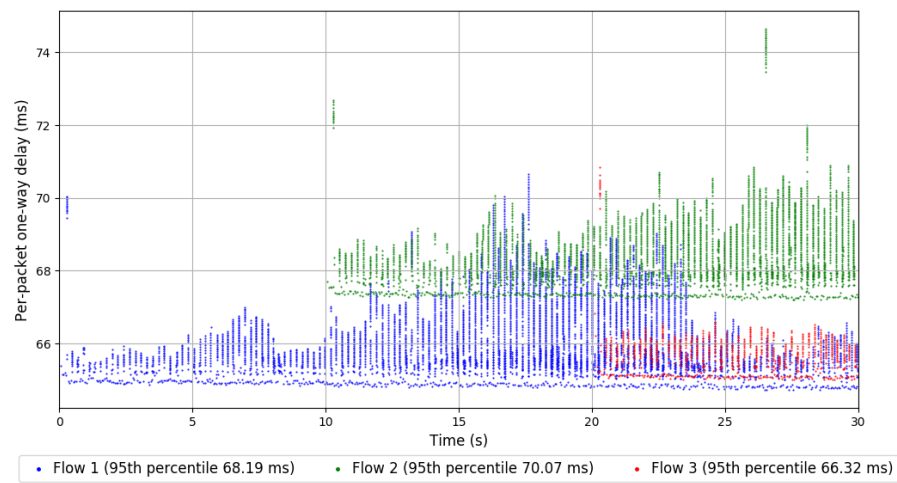
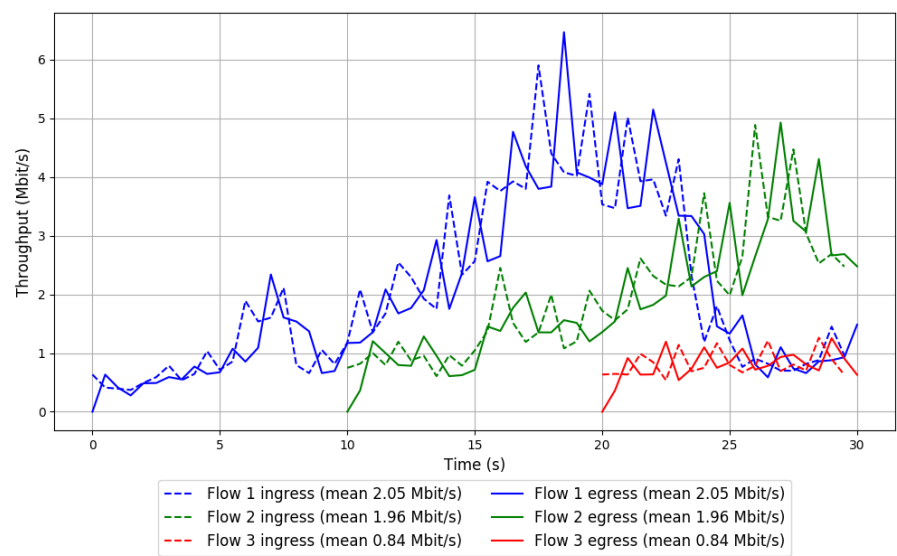


Run 3: Statistics of Sprout

Start at: 2019-03-27 02:49:08
End at: 2019-03-27 02:49:38
Local clock offset: 2.607 ms
Remote clock offset: -33.708 ms

```
# Below is generated by plot.py at 2019-03-27 04:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.63 Mbit/s
95th percentile per-packet one-way delay: 69.545 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 2.05 Mbit/s
95th percentile per-packet one-way delay: 68.189 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 70.071 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.84 Mbit/s
95th percentile per-packet one-way delay: 66.320 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

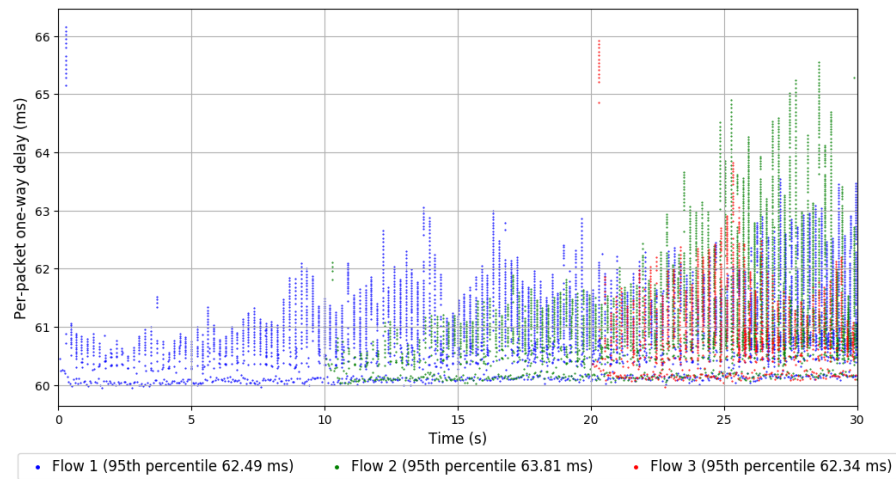
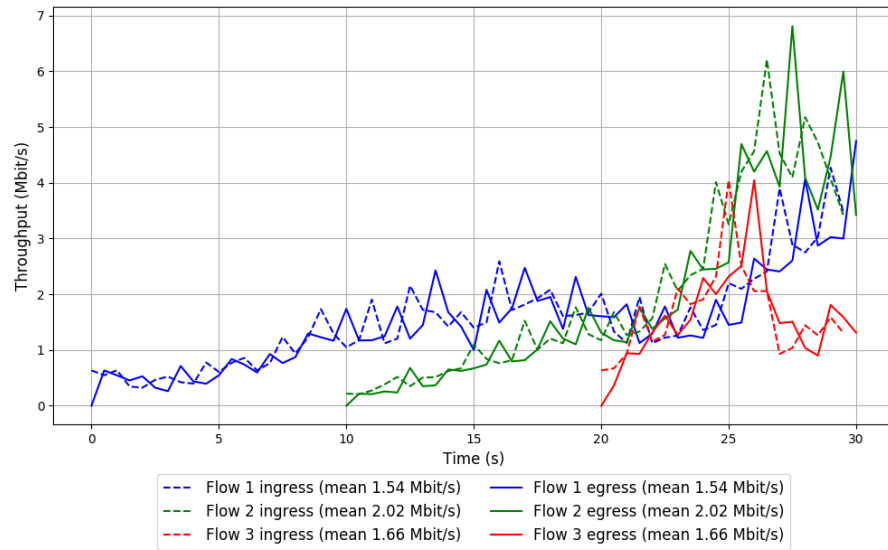


Run 4: Statistics of Sprout

Start at: 2019-03-27 03:19:37
End at: 2019-03-27 03:20:07
Local clock offset: -0.247 ms
Remote clock offset: -39.936 ms

```
# Below is generated by plot.py at 2019-03-27 04:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 63.040 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 62.487 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 2.02 Mbit/s
95th percentile per-packet one-way delay: 63.807 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 62.345 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link

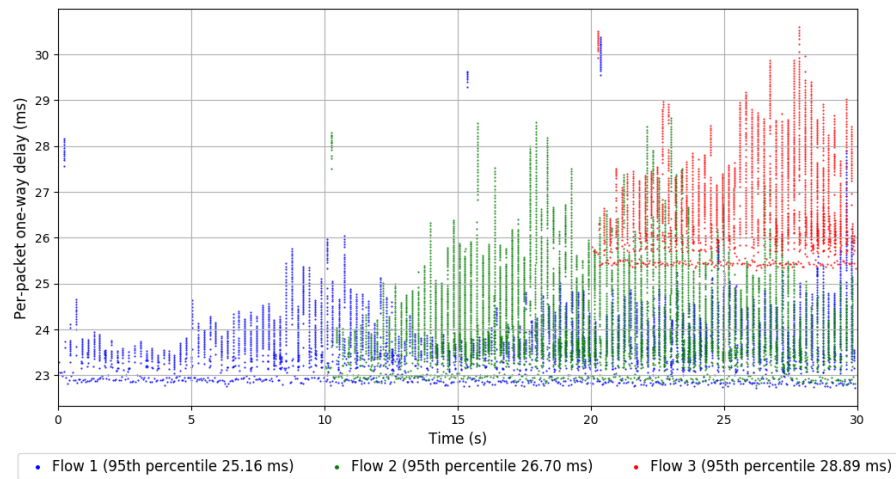
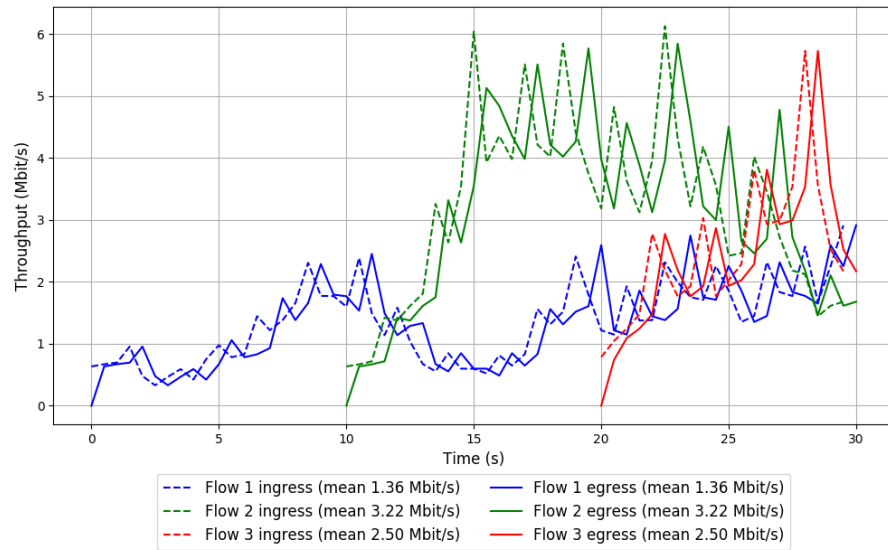


Run 5: Statistics of Sprout

Start at: 2019-03-27 04:01:26
End at: 2019-03-27 04:01:56
Local clock offset: 34.938 ms
Remote clock offset: -40.506 ms

```
# Below is generated by plot.py at 2019-03-27 04:42:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.32 Mbit/s
95th percentile per-packet one-way delay: 27.794 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.36 Mbit/s
95th percentile per-packet one-way delay: 25.163 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.22 Mbit/s
95th percentile per-packet one-way delay: 26.696 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.50 Mbit/s
95th percentile per-packet one-way delay: 28.890 ms
Loss rate: 0.00%
```

Run 5: Report of Sprout — Data Link

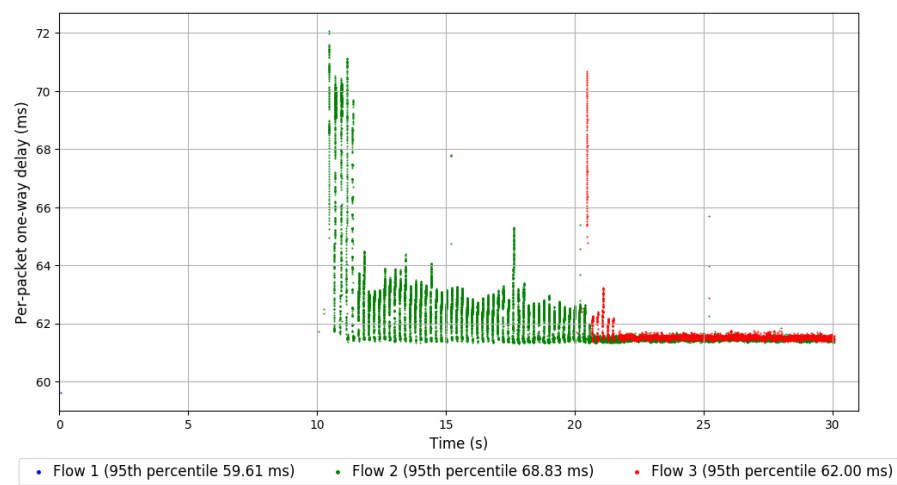
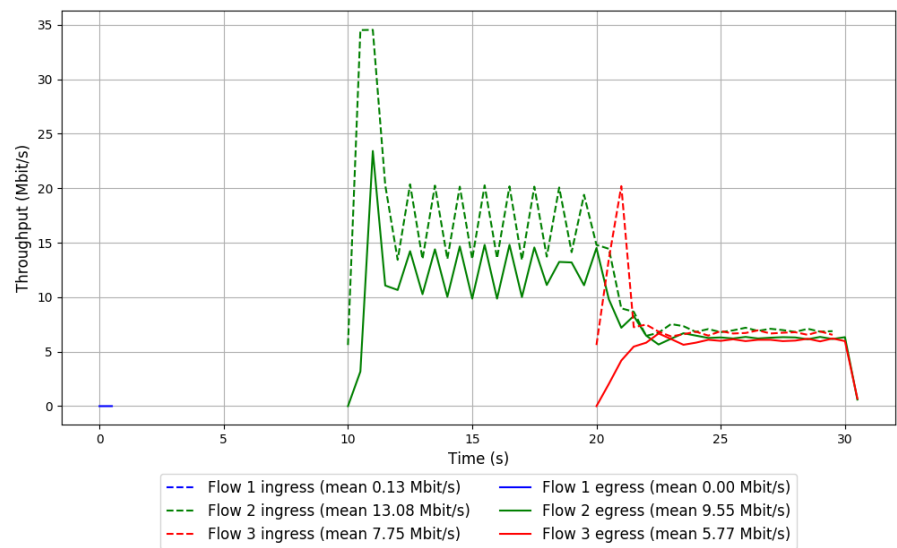


Run 1: Statistics of TaoVA-100x

Start at: 2019-03-27 01:35:01
End at: 2019-03-27 01:35:31
Local clock offset: 5.093 ms
Remote clock offset: -41.344 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 67.120 ms
Loss rate: 26.68%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 59.609 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 68.830 ms
Loss rate: 27.03%
-- Flow 3:
Average throughput: 5.77 Mbit/s
95th percentile per-packet one-way delay: 62.002 ms
Loss rate: 25.49%

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

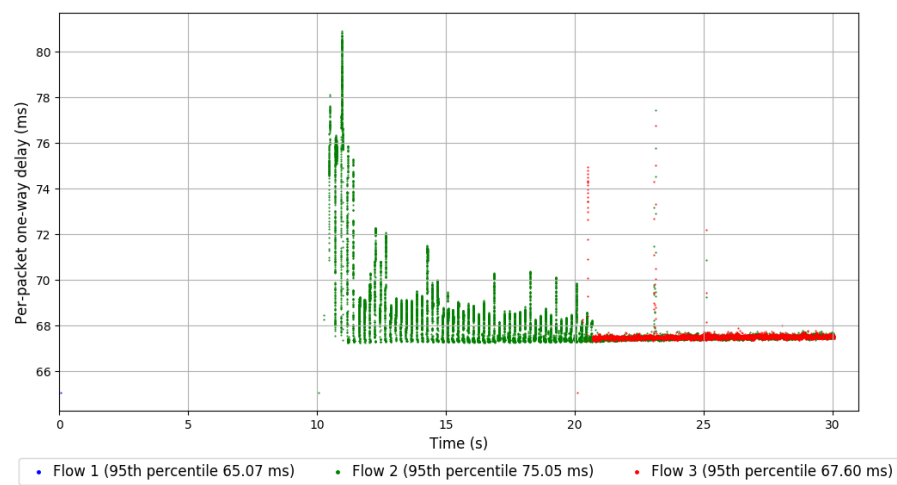
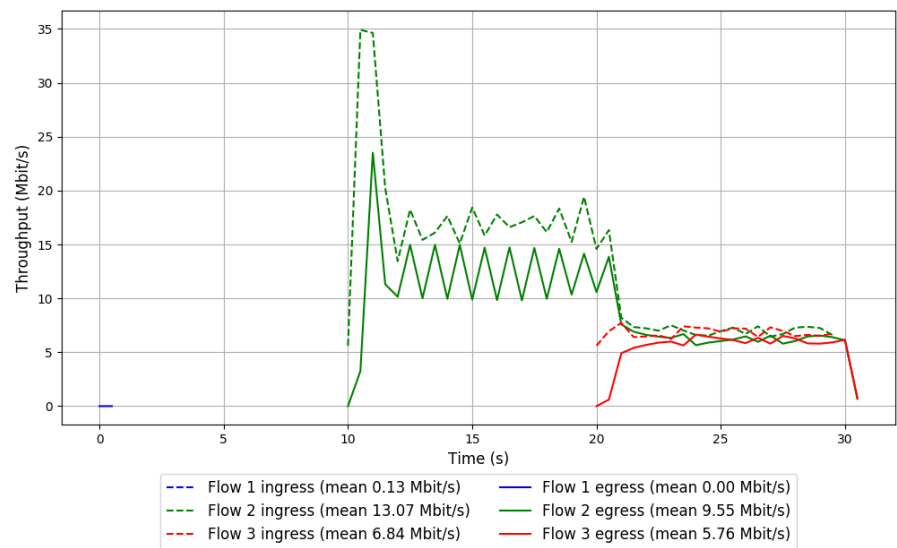


Run 2: Statistics of TaoVA-100x

Start at: 2019-03-27 02:17:07
End at: 2019-03-27 02:17:37
Local clock offset: -0.03 ms
Remote clock offset: -34.768 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 73.060 ms
Loss rate: 24.59%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 65.067 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 75.051 ms
Loss rate: 26.91%
-- Flow 3:
Average throughput: 5.76 Mbit/s
95th percentile per-packet one-way delay: 67.603 ms
Loss rate: 15.70%

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

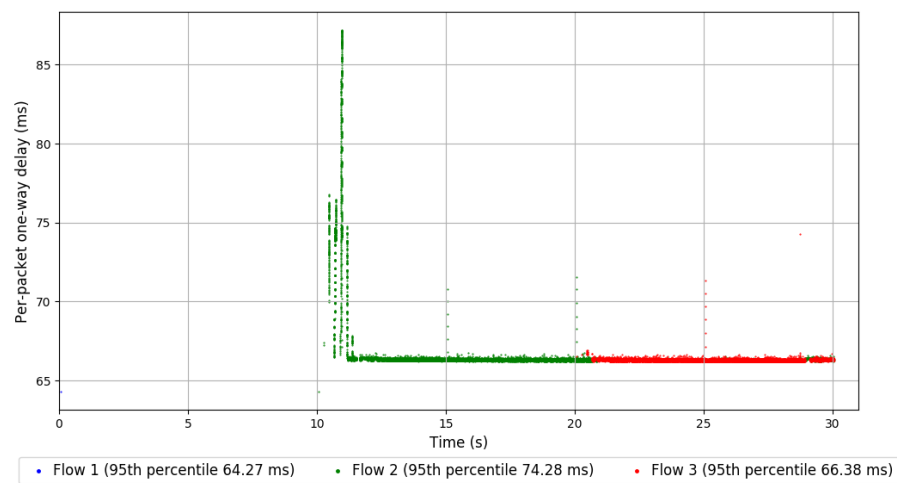
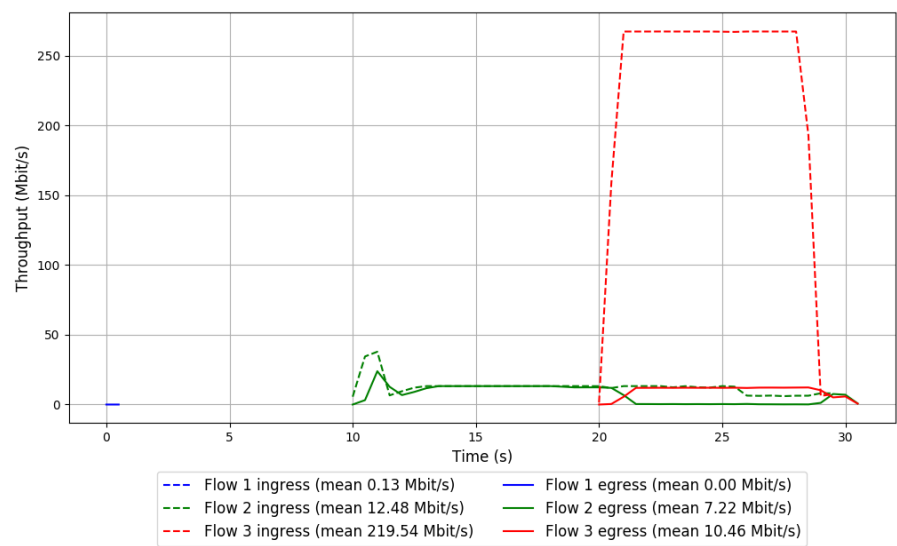


Run 3: Statistics of TaoVA-100x

Start at: 2019-03-27 02:53:18
End at: 2019-03-27 02:53:48
Local clock offset: 1.099 ms
Remote clock offset: -35.556 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 71.054 ms
Loss rate: 89.81%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 64.266 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 74.282 ms
Loss rate: 42.20%
-- Flow 3:
Average throughput: 10.46 Mbit/s
95th percentile per-packet one-way delay: 66.377 ms
Loss rate: 95.24%

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

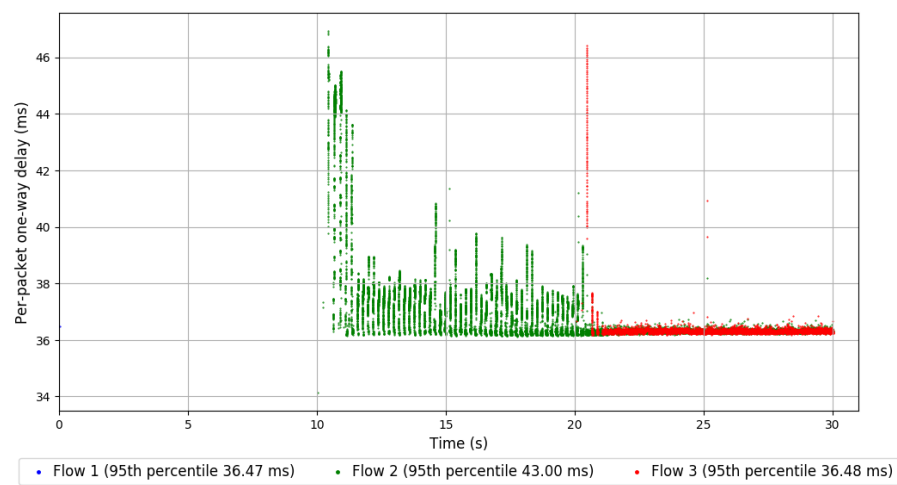
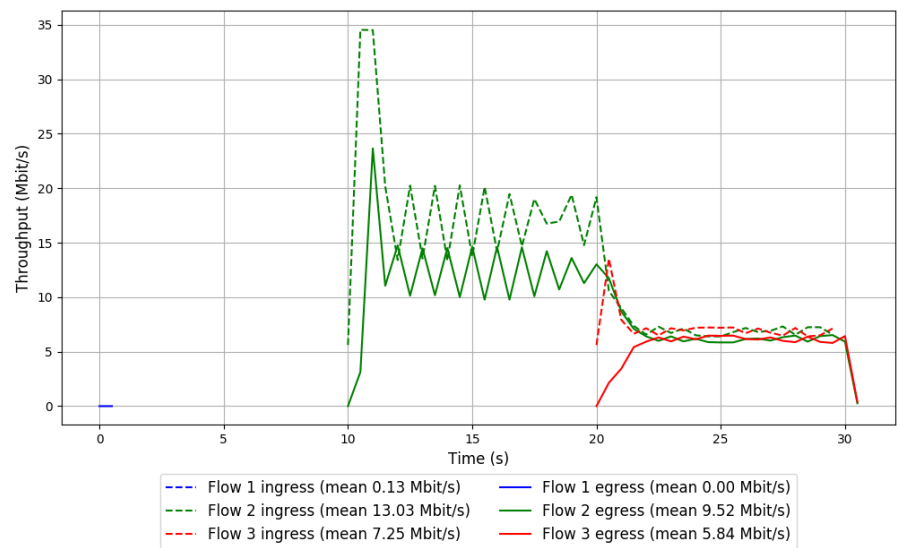


Run 4: Statistics of TaoVA-100x

Start at: 2019-03-27 03:29:21
End at: 2019-03-27 03:29:51
Local clock offset: 28.054 ms
Remote clock offset: -40.466 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 41.390 ms
Loss rate: 25.30%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 36.472 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 43.001 ms
Loss rate: 26.93%
-- Flow 3:
Average throughput: 5.84 Mbit/s
95th percentile per-packet one-way delay: 36.482 ms
Loss rate: 19.44%

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

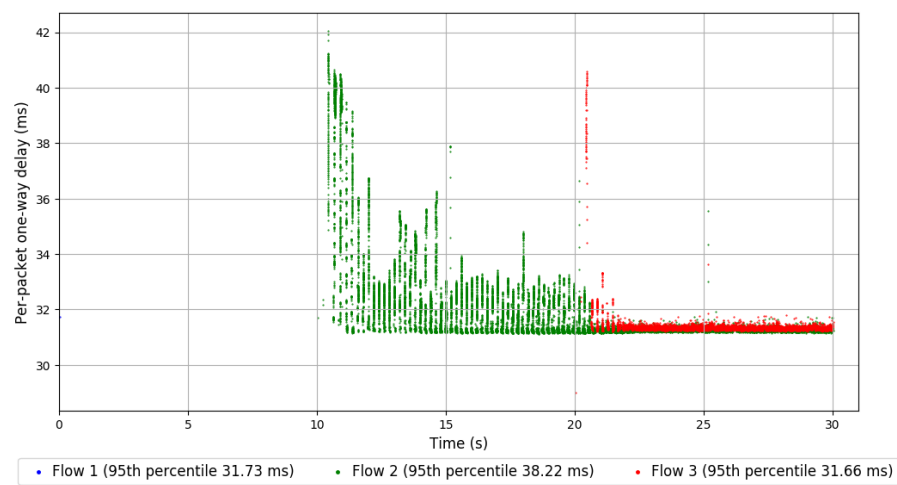
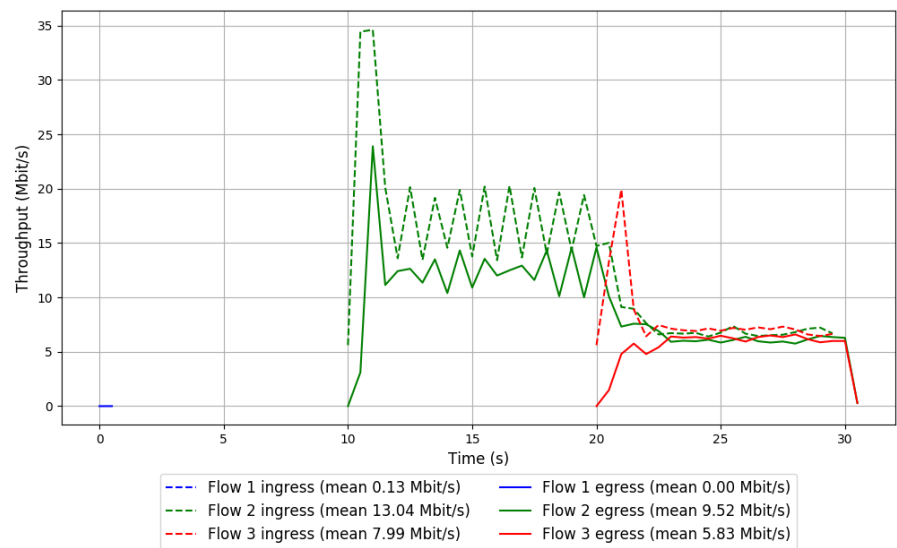


Run 5: Statistics of TaoVA-100x

Start at: 2019-03-27 04:05:52
End at: 2019-03-27 04:06:22
Local clock offset: 33.836 ms
Remote clock offset: -35.54 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 8.28 Mbit/s
95th percentile per-packet one-way delay: 36.702 ms
Loss rate: 26.97%
-- Flow 1:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 31.734 ms
Loss rate: 95.92%
-- Flow 2:
Average throughput: 9.52 Mbit/s
95th percentile per-packet one-way delay: 38.219 ms
Loss rate: 26.96%
-- Flow 3:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 31.661 ms
Loss rate: 27.01%

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

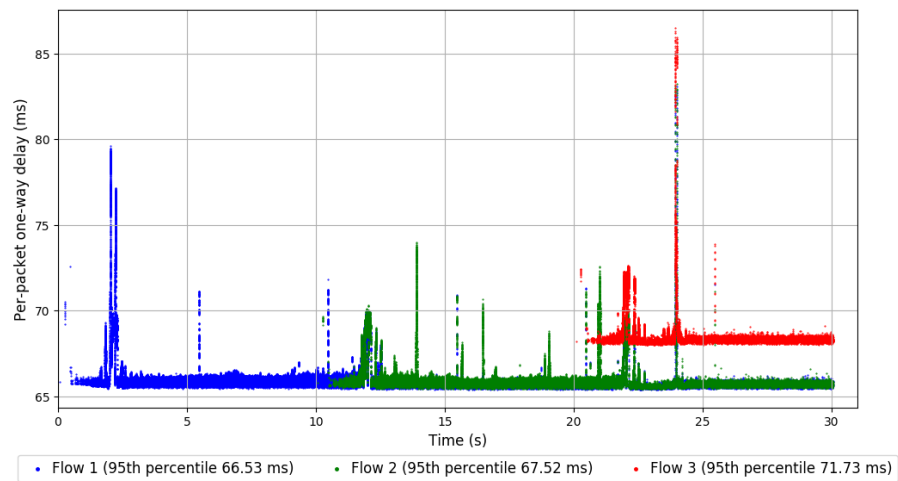
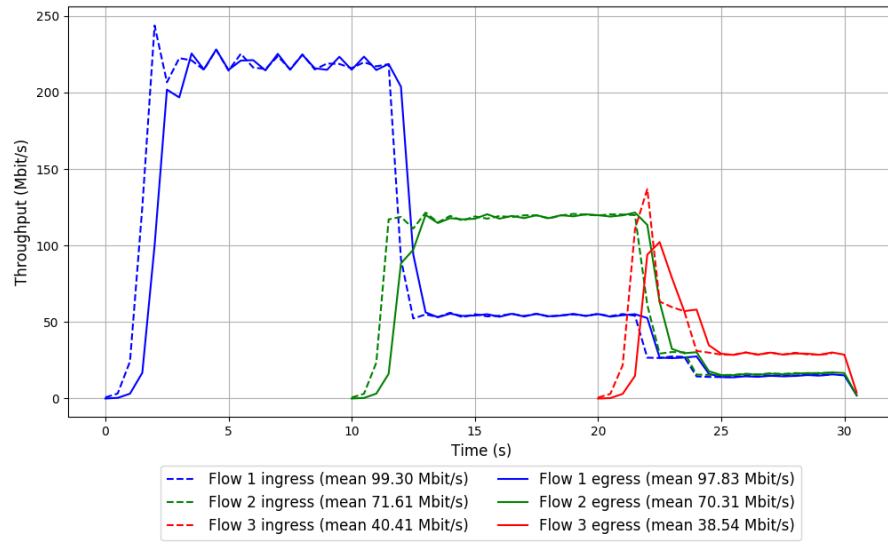


Run 1: Statistics of TCP Vegas

Start at: 2019-03-27 01:21:08
End at: 2019-03-27 01:21:38
Local clock offset: 4.908 ms
Remote clock offset: -35.327 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 157.48 Mbit/s
95th percentile per-packet one-way delay: 68.483 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 97.83 Mbit/s
95th percentile per-packet one-way delay: 66.526 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 70.31 Mbit/s
95th percentile per-packet one-way delay: 67.524 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 38.54 Mbit/s
95th percentile per-packet one-way delay: 71.732 ms
Loss rate: 4.63%

Run 1: Report of TCP Vegas — Data Link

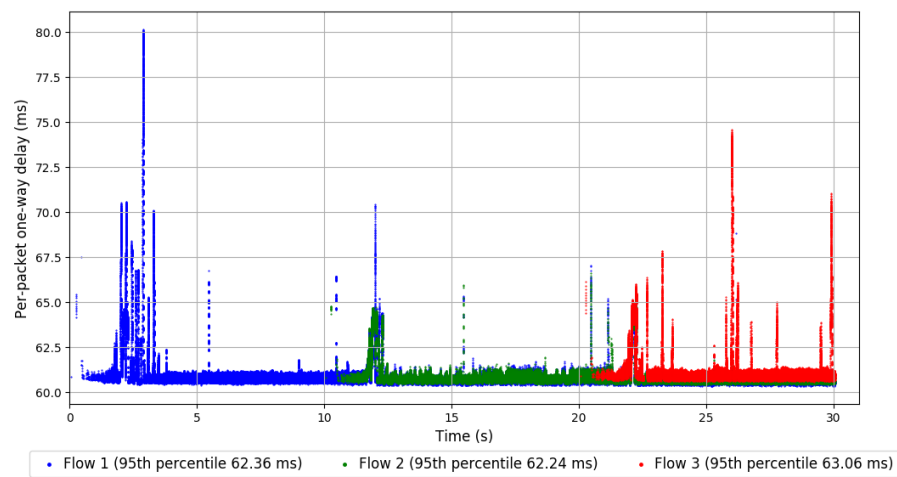
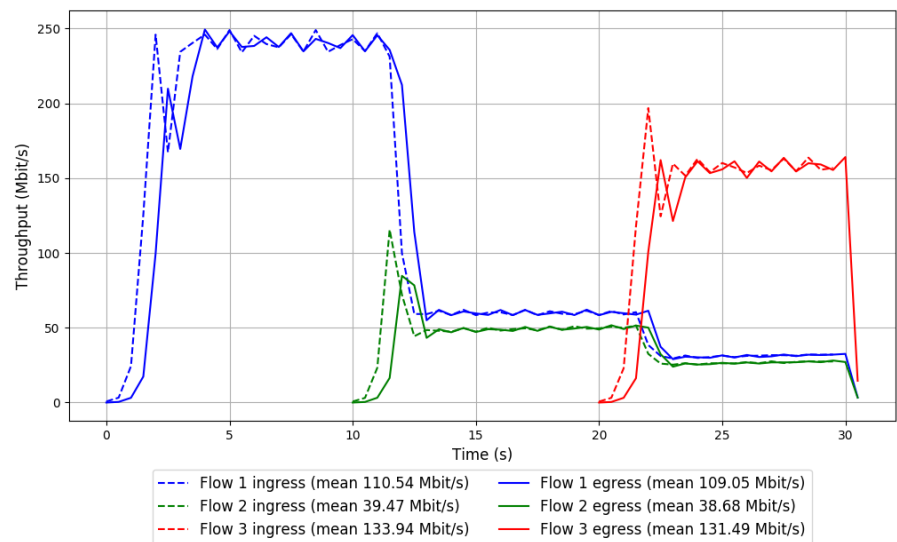


Run 2: Statistics of TCP Vegas

Start at: 2019-03-27 02:02:46
End at: 2019-03-27 02:03:16
Local clock offset: 0.71 ms
Remote clock offset: -38.281 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 178.55 Mbit/s
95th percentile per-packet one-way delay: 62.572 ms
Loss rate: 1.56%
-- Flow 1:
Average throughput: 109.05 Mbit/s
95th percentile per-packet one-way delay: 62.359 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 38.68 Mbit/s
95th percentile per-packet one-way delay: 62.243 ms
Loss rate: 2.00%
-- Flow 3:
Average throughput: 131.49 Mbit/s
95th percentile per-packet one-way delay: 63.060 ms
Loss rate: 1.83%

Run 2: Report of TCP Vegas — Data Link

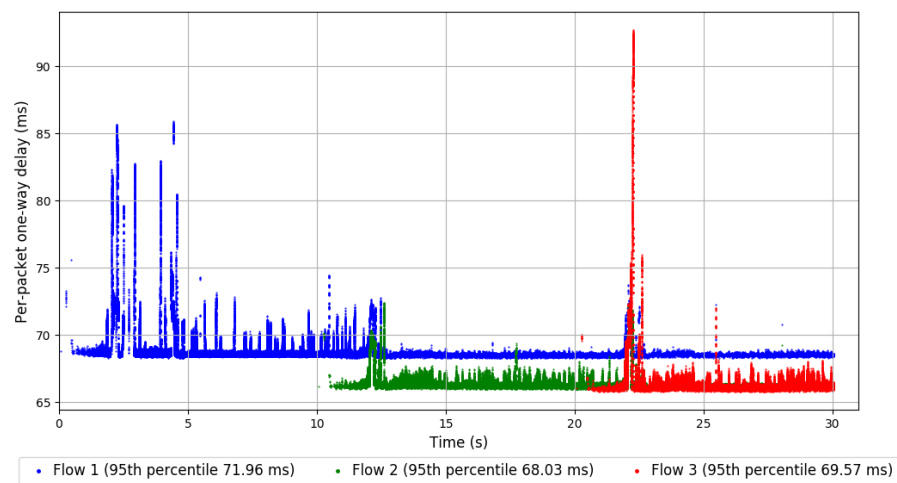
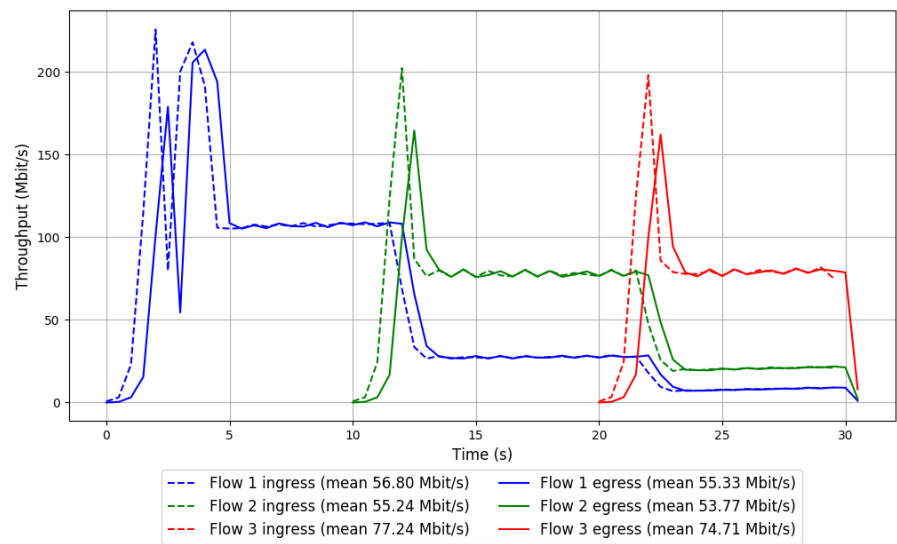


Run 3: Statistics of TCP Vegas

Start at: 2019-03-27 02:39:25
End at: 2019-03-27 02:39:55
Local clock offset: 3.501 ms
Remote clock offset: -32.929 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 116.04 Mbit/s
95th percentile per-packet one-way delay: 70.554 ms
Loss rate: 2.77%
-- Flow 1:
Average throughput: 55.33 Mbit/s
95th percentile per-packet one-way delay: 71.957 ms
Loss rate: 2.59%
-- Flow 2:
Average throughput: 53.77 Mbit/s
95th percentile per-packet one-way delay: 68.033 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 74.71 Mbit/s
95th percentile per-packet one-way delay: 69.567 ms
Loss rate: 3.28%

Run 3: Report of TCP Vegas — Data Link

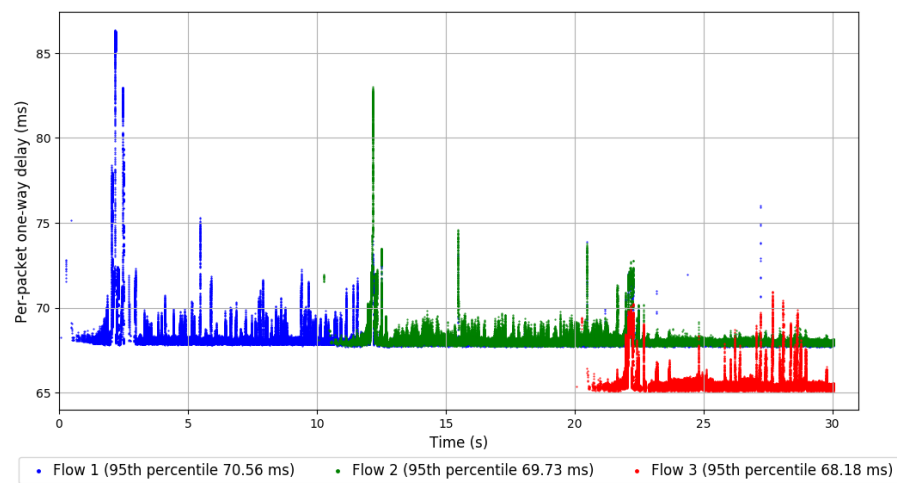
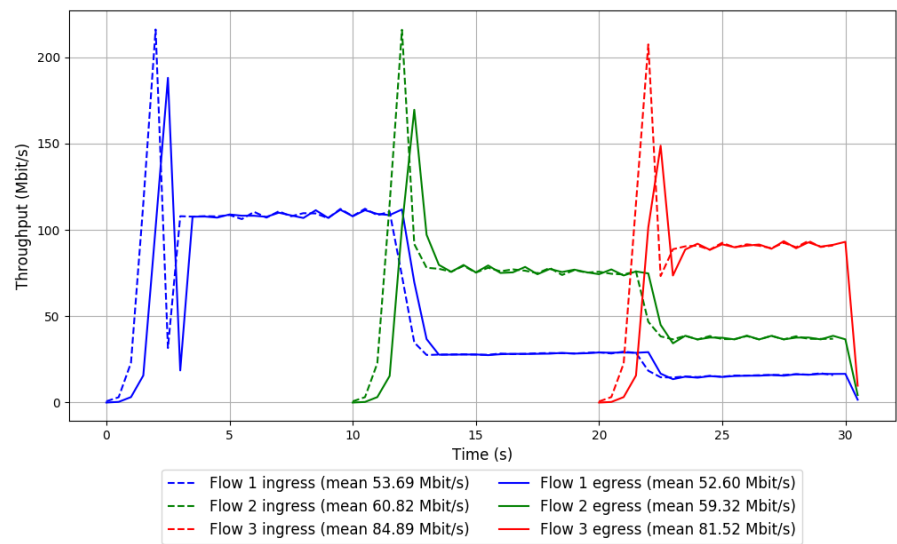


Run 4: Statistics of TCP Vegas

Start at: 2019-03-27 03:09:57
End at: 2019-03-27 03:10:27
Local clock offset: -0.441 ms
Remote clock offset: -33.509 ms

Below is generated by plot.py at 2019-03-27 04:42:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 119.21 Mbit/s
95th percentile per-packet one-way delay: 69.499 ms
Loss rate: 2.62%
-- Flow 1:
Average throughput: 52.60 Mbit/s
95th percentile per-packet one-way delay: 70.557 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 59.32 Mbit/s
95th percentile per-packet one-way delay: 69.734 ms
Loss rate: 2.48%
-- Flow 3:
Average throughput: 81.52 Mbit/s
95th percentile per-packet one-way delay: 68.182 ms
Loss rate: 3.98%

Run 4: Report of TCP Vegas — Data Link

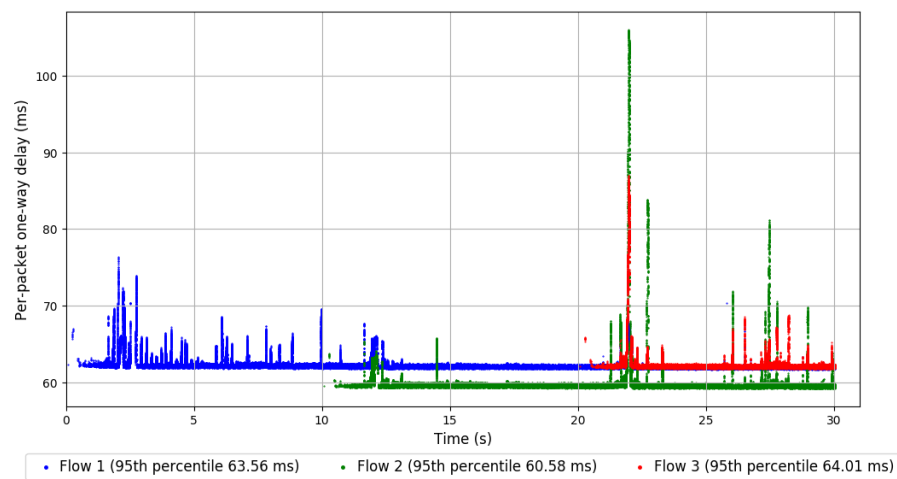
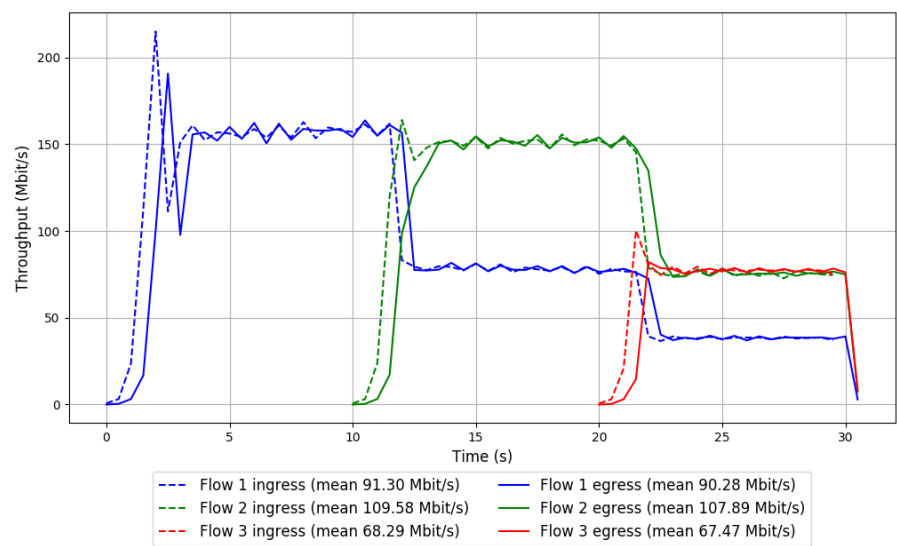


Run 5: Statistics of TCP Vegas

Start at: 2019-03-27 03:51:28
End at: 2019-03-27 03:51:58
Local clock offset: 1.066 ms
Remote clock offset: -40.097 ms

Below is generated by plot.py at 2019-03-27 04:43:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 184.59 Mbit/s
95th percentile per-packet one-way delay: 62.989 ms
Loss rate: 1.29%
-- Flow 1:
Average throughput: 90.28 Mbit/s
95th percentile per-packet one-way delay: 63.561 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 107.89 Mbit/s
95th percentile per-packet one-way delay: 60.584 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 67.47 Mbit/s
95th percentile per-packet one-way delay: 64.007 ms
Loss rate: 1.20%

Run 5: Report of TCP Vegas — Data Link

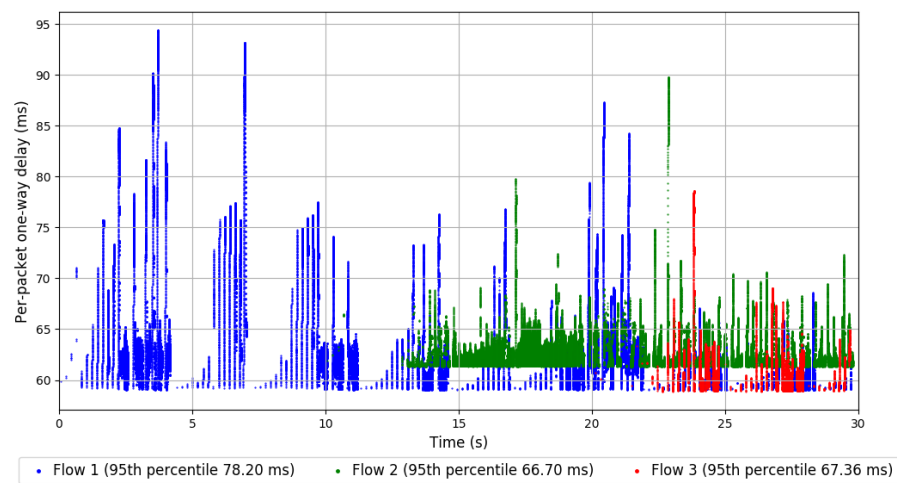
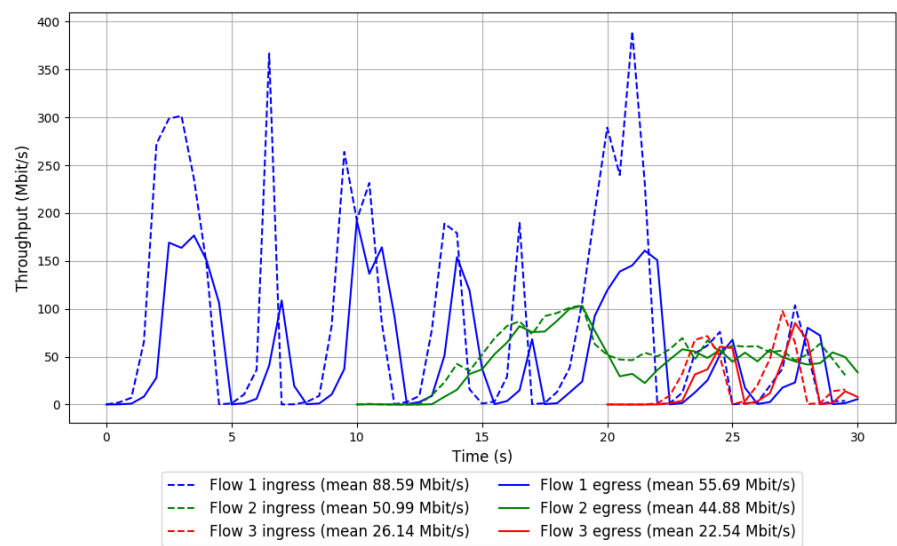


Run 1: Statistics of Verus

Start at: 2019-03-27 01:25:13
End at: 2019-03-27 01:25:43
Local clock offset: 6.047 ms
Remote clock offset: -40.656 ms

Below is generated by plot.py at 2019-03-27 04:43:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.53 Mbit/s
95th percentile per-packet one-way delay: 74.577 ms
Loss rate: 29.11%
-- Flow 1:
Average throughput: 55.69 Mbit/s
95th percentile per-packet one-way delay: 78.197 ms
Loss rate: 37.13%
-- Flow 2:
Average throughput: 44.88 Mbit/s
95th percentile per-packet one-way delay: 66.698 ms
Loss rate: 11.99%
-- Flow 3:
Average throughput: 22.54 Mbit/s
95th percentile per-packet one-way delay: 67.364 ms
Loss rate: 13.74%

Run 1: Report of Verus — Data Link

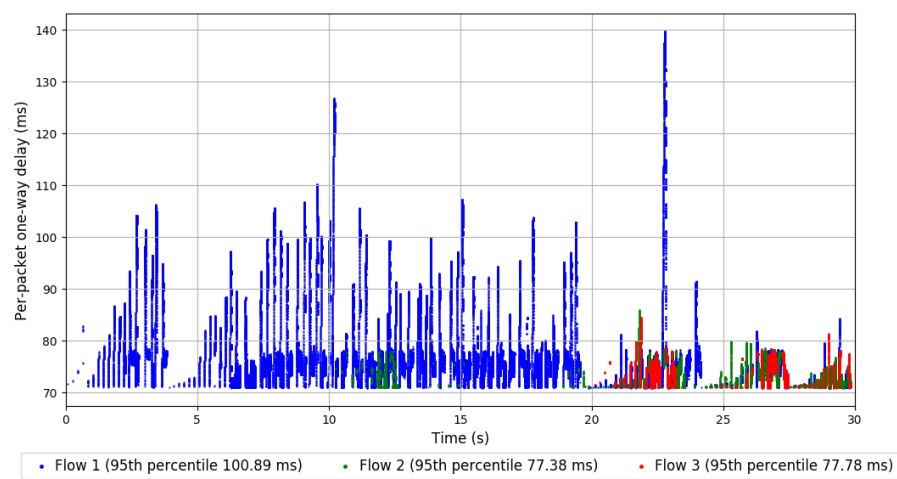
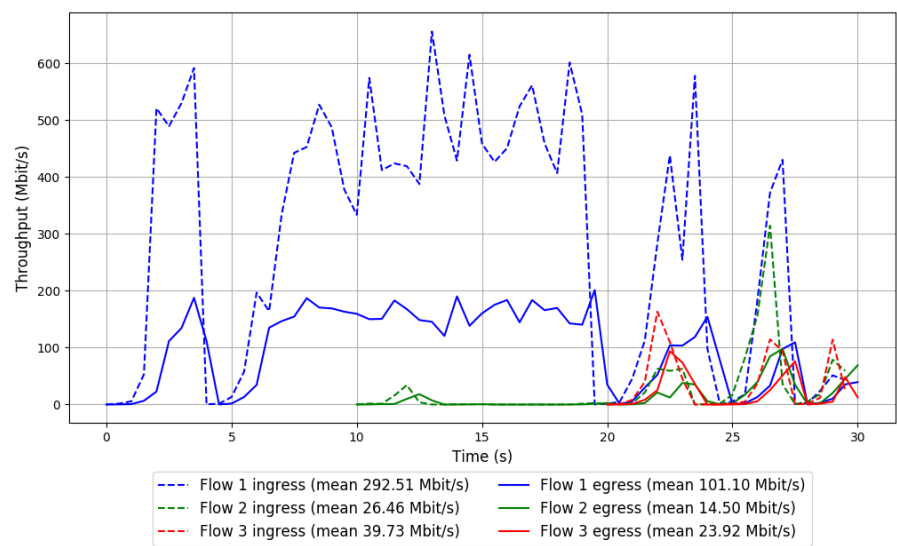


Run 2: Statistics of Verus

Start at: 2019-03-27 02:07:13
End at: 2019-03-27 02:07:43
Local clock offset: 0.266 ms
Remote clock offset: -27.97 ms

Below is generated by plot.py at 2019-03-27 04:43:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.26 Mbit/s
95th percentile per-packet one-way delay: 99.837 ms
Loss rate: 63.30%
-- Flow 1:
Average throughput: 101.10 Mbit/s
95th percentile per-packet one-way delay: 100.892 ms
Loss rate: 65.43%
-- Flow 2:
Average throughput: 14.50 Mbit/s
95th percentile per-packet one-way delay: 77.381 ms
Loss rate: 45.19%
-- Flow 3:
Average throughput: 23.92 Mbit/s
95th percentile per-packet one-way delay: 77.780 ms
Loss rate: 39.78%

Run 2: Report of Verus — Data Link

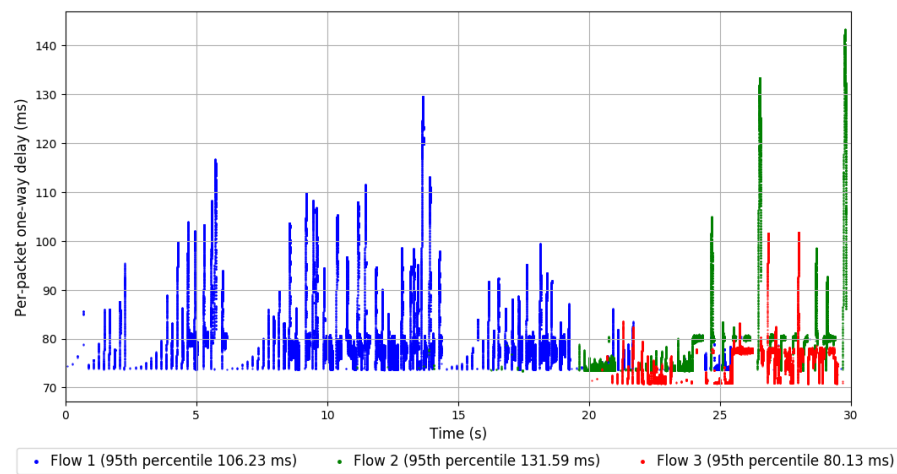
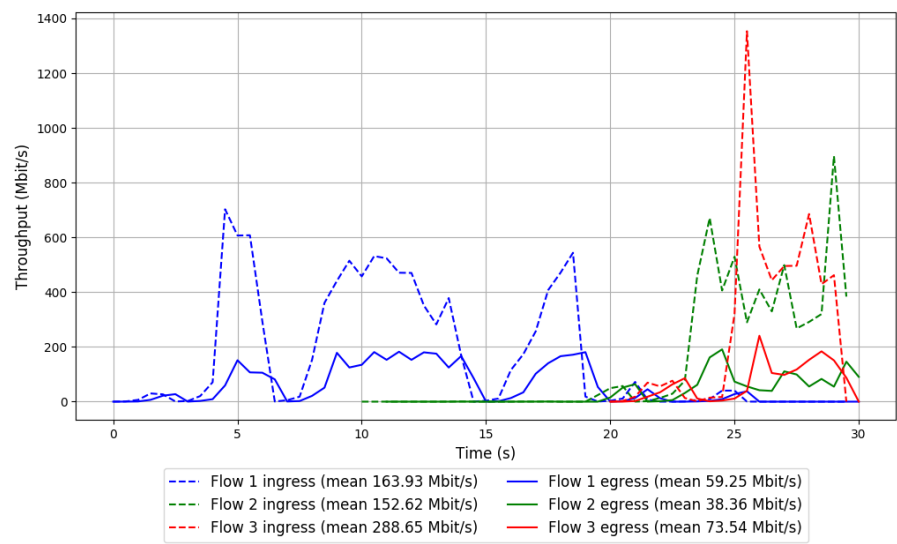


Run 3: Statistics of Verus

Start at: 2019-03-27 02:43:27
End at: 2019-03-27 02:43:57
Local clock offset: 3.422 ms
Remote clock offset: -28.242 ms

Below is generated by plot.py at 2019-03-27 04:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 106.65 Mbit/s
95th percentile per-packet one-way delay: 106.492 ms
Loss rate: 70.10%
-- Flow 1:
Average throughput: 59.25 Mbit/s
95th percentile per-packet one-way delay: 106.226 ms
Loss rate: 63.86%
-- Flow 2:
Average throughput: 38.36 Mbit/s
95th percentile per-packet one-way delay: 131.589 ms
Loss rate: 76.12%
-- Flow 3:
Average throughput: 73.54 Mbit/s
95th percentile per-packet one-way delay: 80.126 ms
Loss rate: 74.52%

Run 3: Report of Verus — Data Link

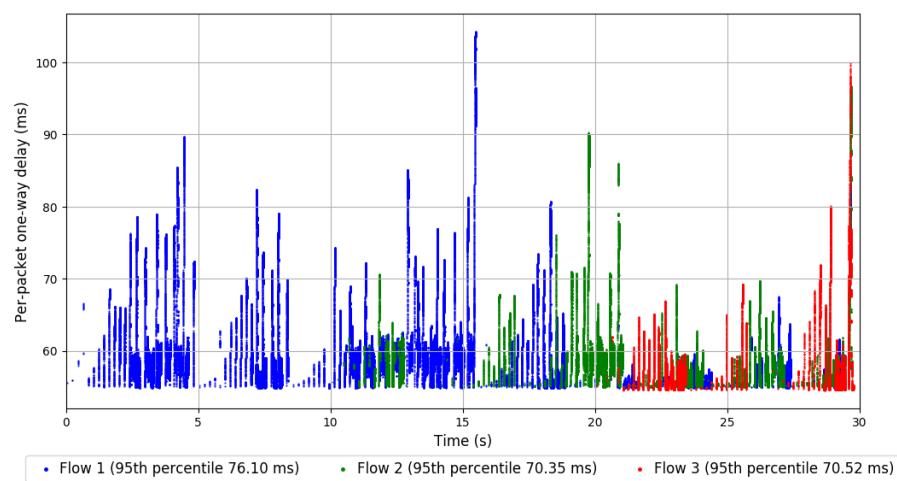
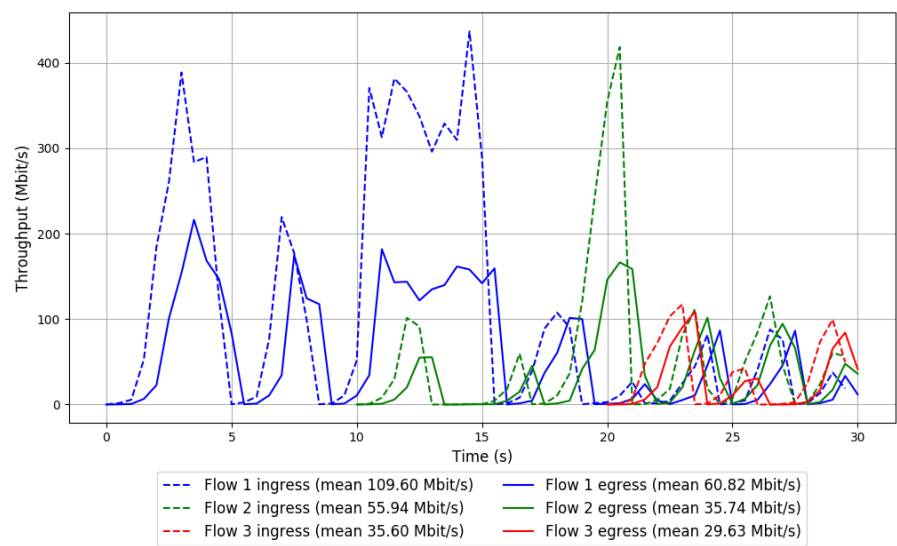


Run 4: Statistics of Verus

Start at: 2019-03-27 03:13:59
End at: 2019-03-27 03:14:29
Local clock offset: 10.278 ms
Remote clock offset: -33.224 ms

Below is generated by plot.py at 2019-03-27 04:43:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.86 Mbit/s
95th percentile per-packet one-way delay: 75.293 ms
Loss rate: 40.46%
-- Flow 1:
Average throughput: 60.82 Mbit/s
95th percentile per-packet one-way delay: 76.098 ms
Loss rate: 44.46%
-- Flow 2:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 70.346 ms
Loss rate: 36.10%
-- Flow 3:
Average throughput: 29.63 Mbit/s
95th percentile per-packet one-way delay: 70.519 ms
Loss rate: 16.76%

Run 4: Report of Verus — Data Link

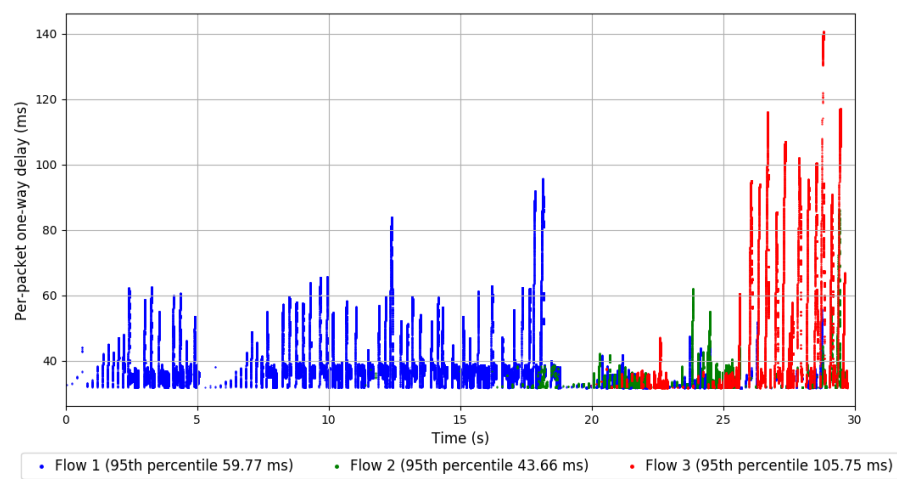
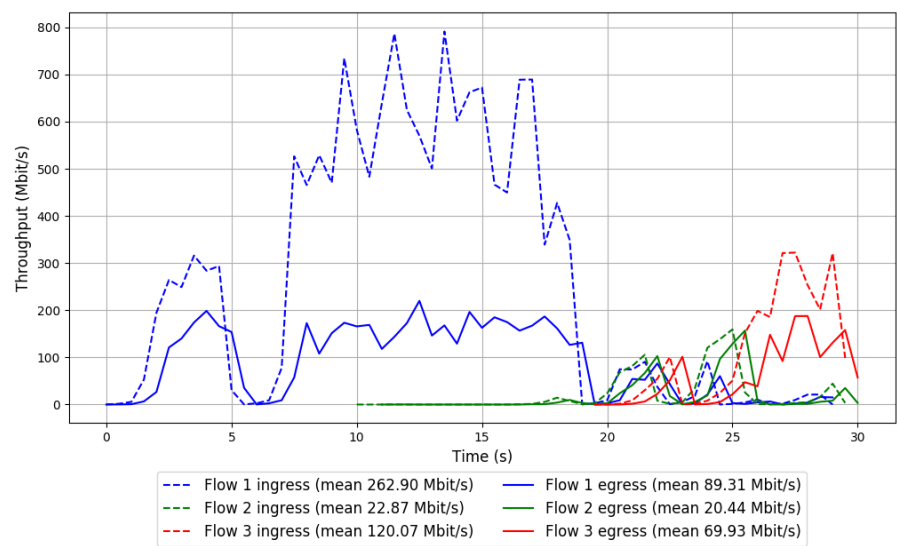


Run 5: Statistics of Verus

Start at: 2019-03-27 03:55:36
End at: 2019-03-27 03:56:06
Local clock offset: 34.881 ms
Remote clock offset: -32.555 ms

Below is generated by plot.py at 2019-03-27 04:43:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 122.51 Mbit/s
95th percentile per-packet one-way delay: 84.570 ms
Loss rate: 60.74%
-- Flow 1:
Average throughput: 89.31 Mbit/s
95th percentile per-packet one-way delay: 59.765 ms
Loss rate: 66.26%
-- Flow 2:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 43.664 ms
Loss rate: 15.27%
-- Flow 3:
Average throughput: 69.93 Mbit/s
95th percentile per-packet one-way delay: 105.754 ms
Loss rate: 41.75%

Run 5: Report of Verus — Data Link

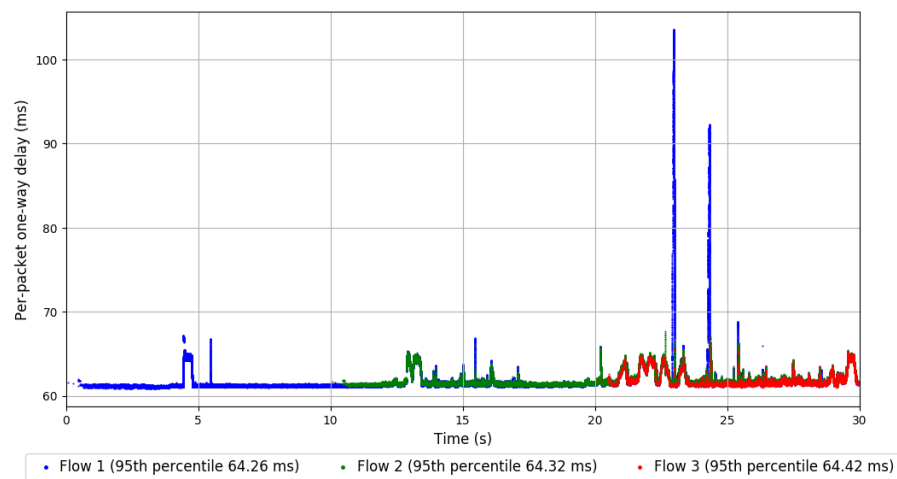
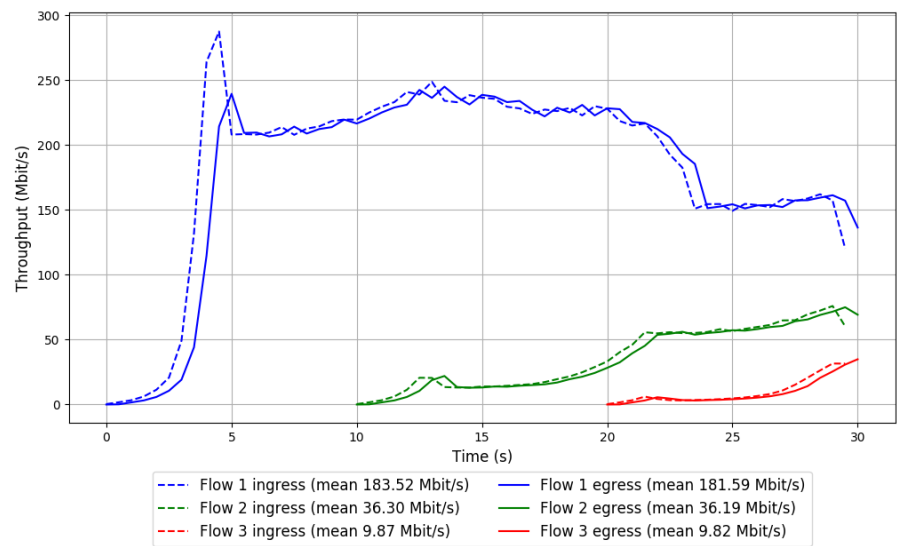


Run 1: Statistics of PCC-Vivace

Start at: 2019-03-27 01:32:08
End at: 2019-03-27 01:32:38
Local clock offset: 5.26 ms
Remote clock offset: -39.121 ms

Below is generated by plot.py at 2019-03-27 04:43:59
Datalink statistics
-- Total of 3 flows:
Average throughput: 208.90 Mbit/s
95th percentile per-packet one-way delay: 64.271 ms
Loss rate: 0.96%
-- Flow 1:
Average throughput: 181.59 Mbit/s
95th percentile per-packet one-way delay: 64.256 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 36.19 Mbit/s
95th percentile per-packet one-way delay: 64.318 ms
Loss rate: 0.32%
-- Flow 3:
Average throughput: 9.82 Mbit/s
95th percentile per-packet one-way delay: 64.415 ms
Loss rate: 0.51%

Run 1: Report of PCC-Vivace — Data Link

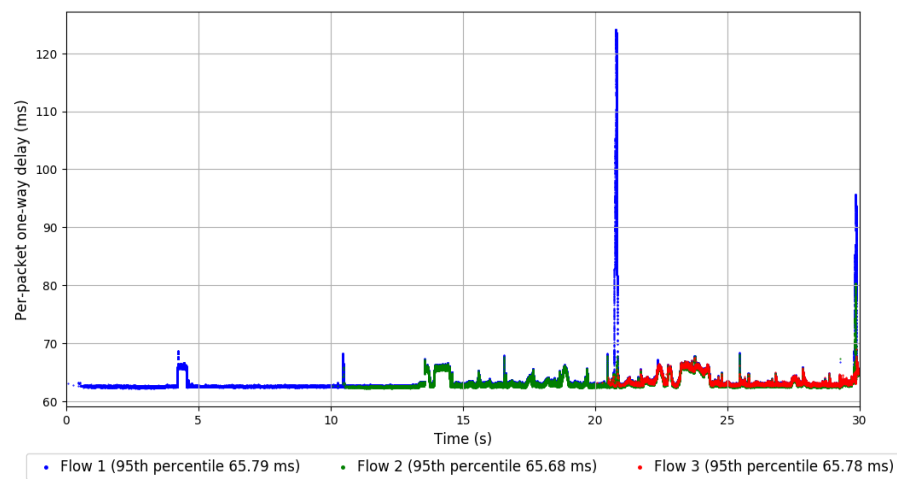
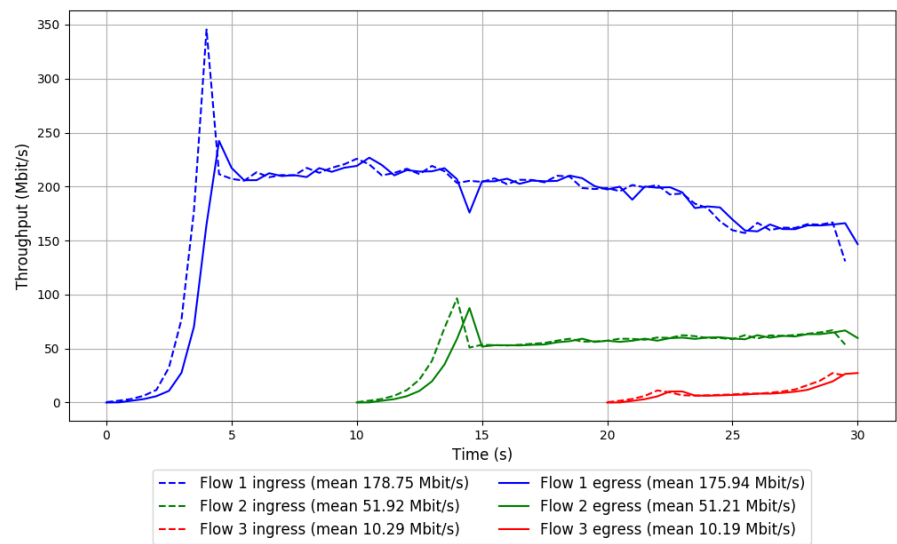


Run 2: Statistics of PCC-Vivace

Start at: 2019-03-27 02:14:14
End at: 2019-03-27 02:14:44
Local clock offset: -1.027 ms
Remote clock offset: -37.388 ms

Below is generated by plot.py at 2019-03-27 04:44:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 213.37 Mbit/s
95th percentile per-packet one-way delay: 65.775 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 175.94 Mbit/s
95th percentile per-packet one-way delay: 65.790 ms
Loss rate: 1.57%
-- Flow 2:
Average throughput: 51.21 Mbit/s
95th percentile per-packet one-way delay: 65.682 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 10.19 Mbit/s
95th percentile per-packet one-way delay: 65.782 ms
Loss rate: 0.93%

Run 2: Report of PCC-Vivace — Data Link

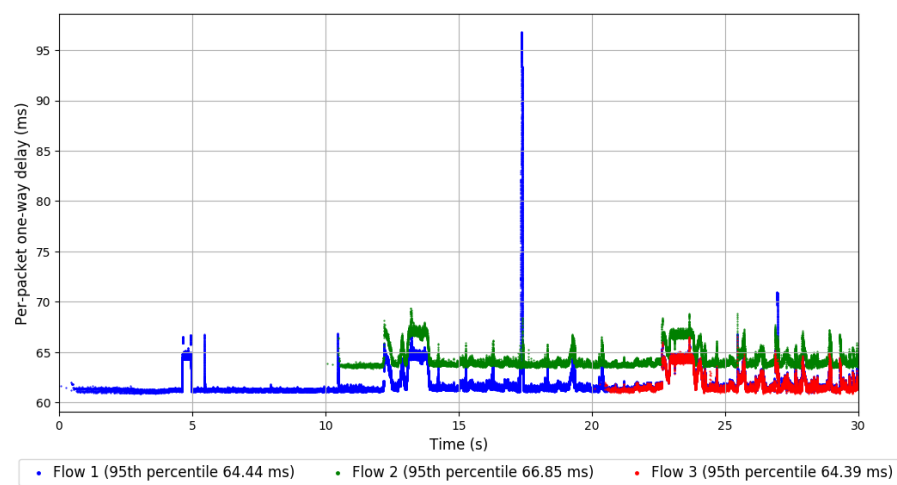
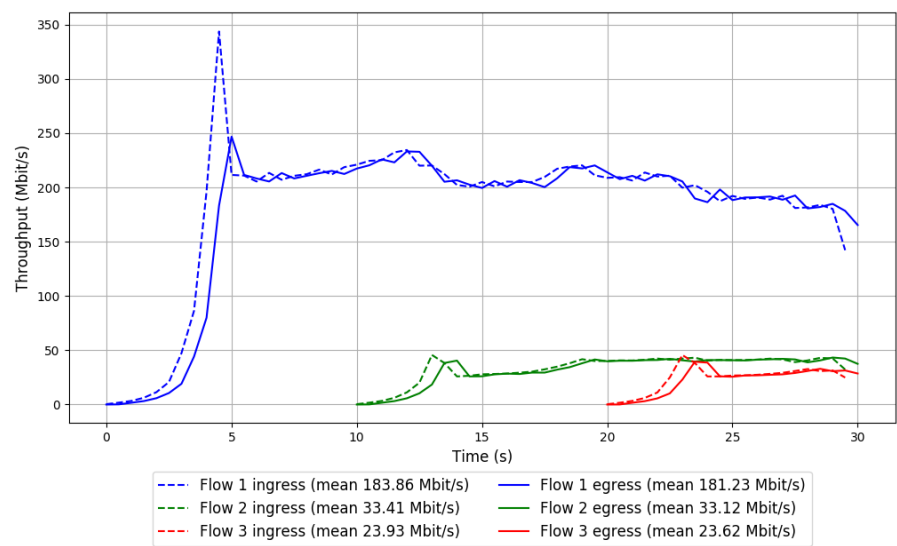


Run 3: Statistics of PCC-Vivace

Start at: 2019-03-27 02:50:25
End at: 2019-03-27 02:50:55
Local clock offset: 3.061 ms
Remote clock offset: -36.815 ms

Below is generated by plot.py at 2019-03-27 04:44:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 211.04 Mbit/s
95th percentile per-packet one-way delay: 64.579 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 181.23 Mbit/s
95th percentile per-packet one-way delay: 64.435 ms
Loss rate: 1.43%
-- Flow 2:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 66.854 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 23.62 Mbit/s
95th percentile per-packet one-way delay: 64.386 ms
Loss rate: 1.33%

Run 3: Report of PCC-Vivace — Data Link

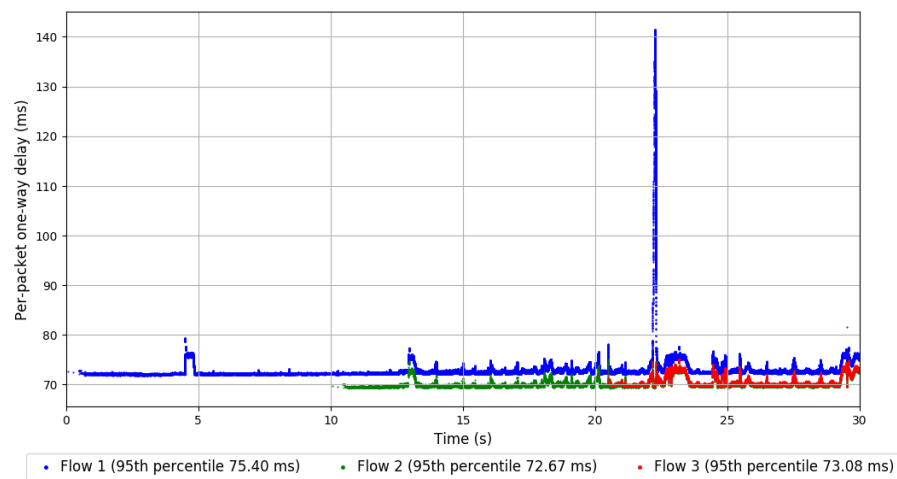
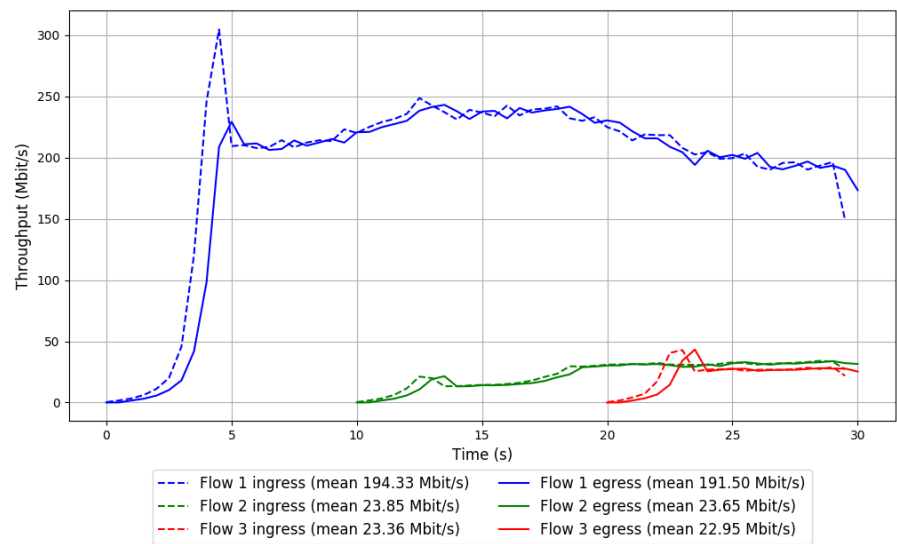


Run 4: Statistics of PCC-Vivace

Start at: 2019-03-27 03:20:54
End at: 2019-03-27 03:21:24
Local clock offset: 0.632 ms
Remote clock offset: -30.237 ms

Below is generated by plot.py at 2019-03-27 04:44:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 214.81 Mbit/s
95th percentile per-packet one-way delay: 75.326 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 191.50 Mbit/s
95th percentile per-packet one-way delay: 75.399 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 23.65 Mbit/s
95th percentile per-packet one-way delay: 72.674 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 73.083 ms
Loss rate: 1.73%

Run 4: Report of PCC-Vivace — Data Link

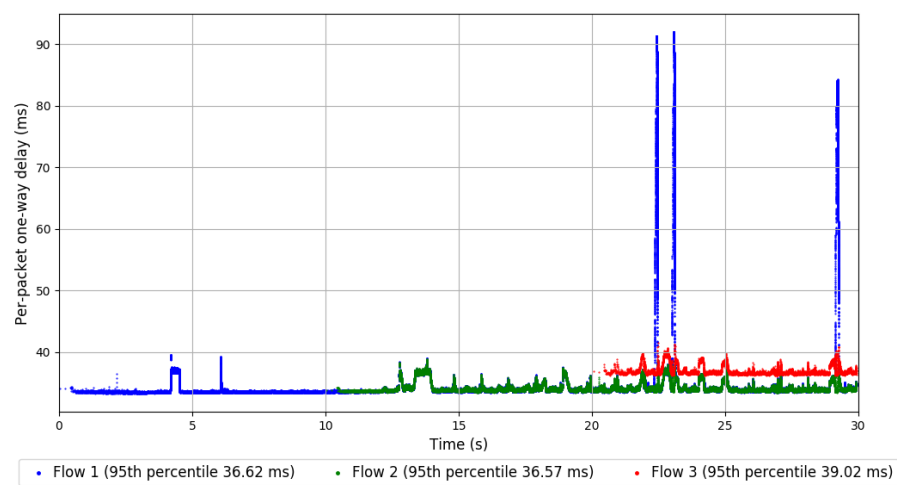
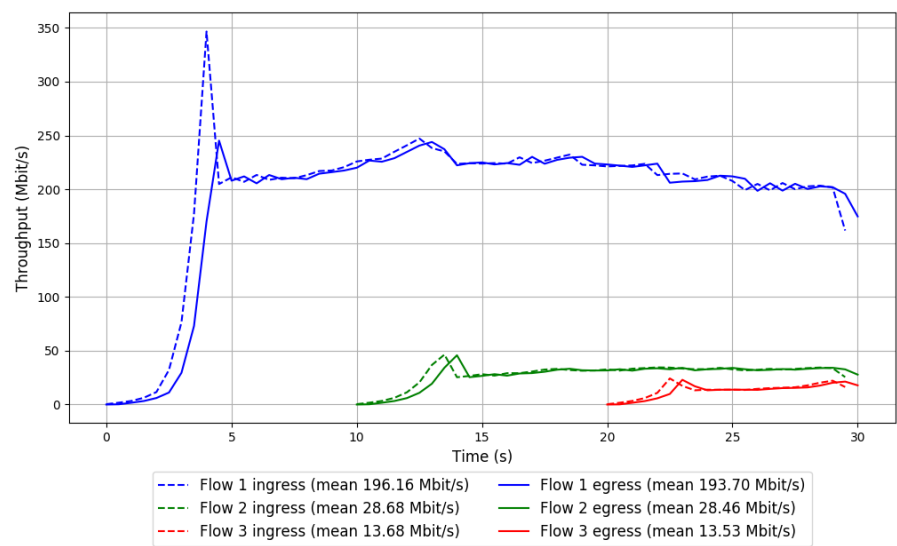


Run 5: Statistics of PCC-Vivace

Start at: 2019-03-27 04:02:49
End at: 2019-03-27 04:03:19
Local clock offset: 34.581 ms
Remote clock offset: -30.129 ms

Below is generated by plot.py at 2019-03-27 04:44:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 217.09 Mbit/s
95th percentile per-packet one-way delay: 36.699 ms
Loss rate: 1.20%
-- Flow 1:
Average throughput: 193.70 Mbit/s
95th percentile per-packet one-way delay: 36.623 ms
Loss rate: 1.25%
-- Flow 2:
Average throughput: 28.46 Mbit/s
95th percentile per-packet one-way delay: 36.572 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 13.53 Mbit/s
95th percentile per-packet one-way delay: 39.022 ms
Loss rate: 1.09%

Run 5: Report of PCC-Vivace — Data Link

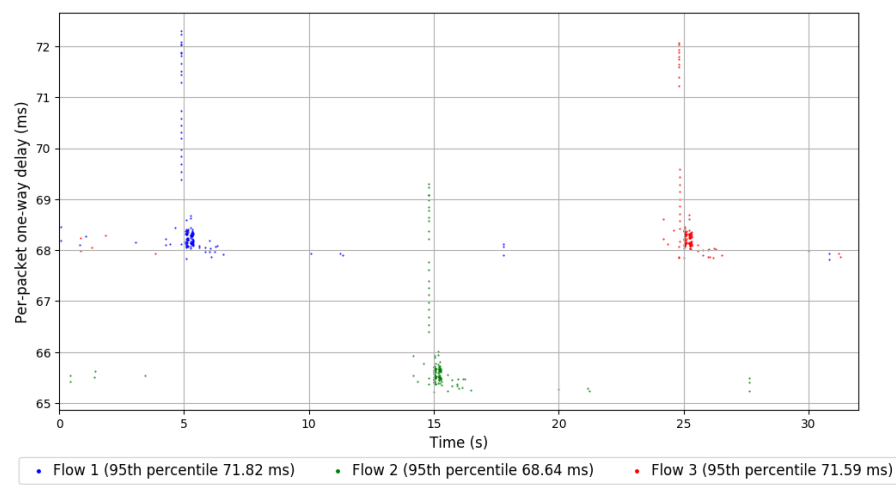
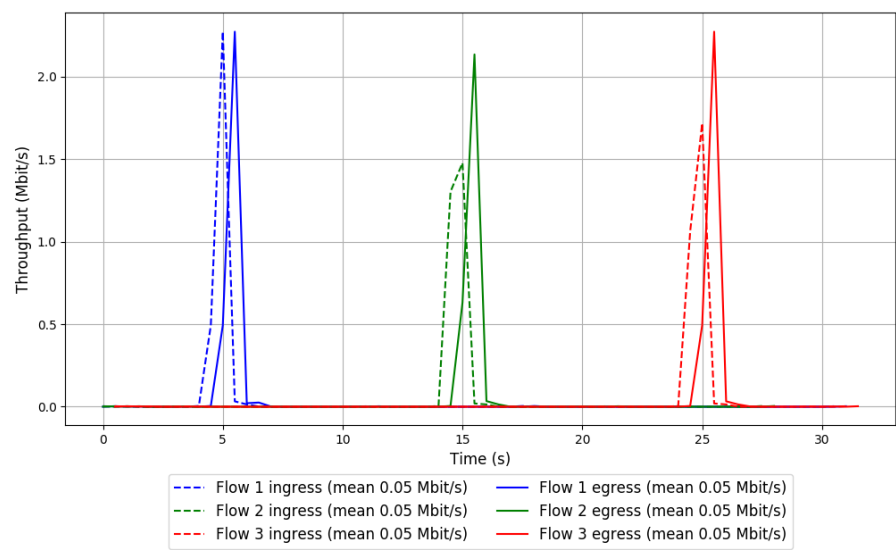


Run 1: Statistics of WebRTC media

Start at: 2019-03-27 01:28:11
End at: 2019-03-27 01:28:41
Local clock offset: 4.884 ms
Remote clock offset: -35.336 ms

Below is generated by plot.py at 2019-03-27 04:44:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 70.727 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.821 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 68.643 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.591 ms
Loss rate: 0.00%

Run 1: Report of WebRTC media — Data Link

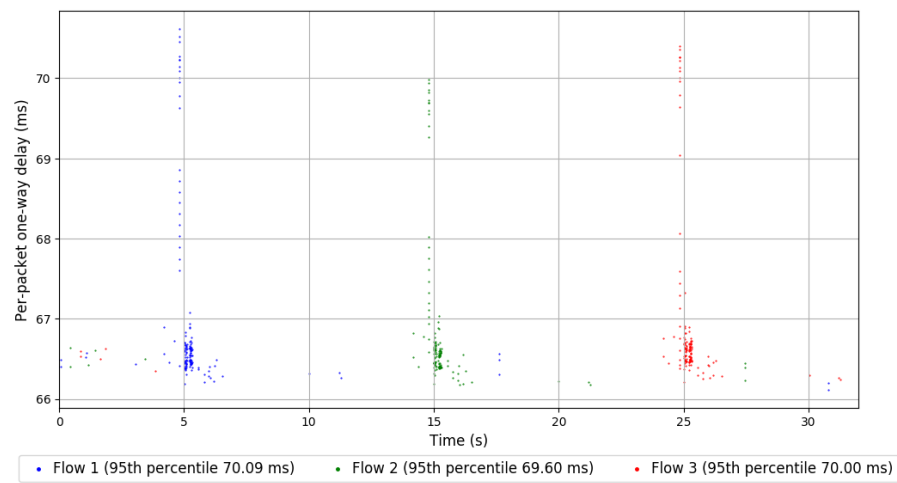
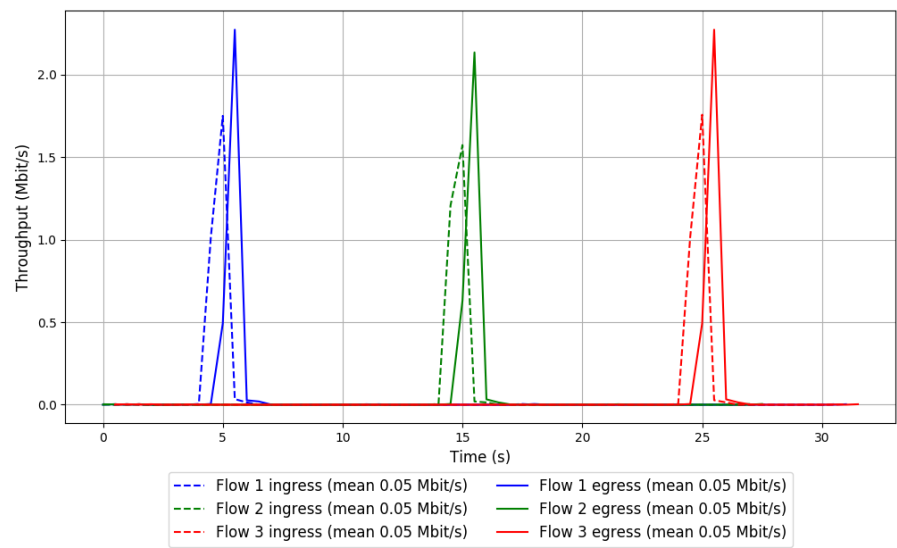


Run 2: Statistics of WebRTC media

Start at: 2019-03-27 02:10:17
End at: 2019-03-27 02:10:47
Local clock offset: 1.303 ms
Remote clock offset: -31.433 ms

Below is generated by plot.py at 2019-03-27 04:44:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 69.816 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.089 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 69.600 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.001 ms
Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

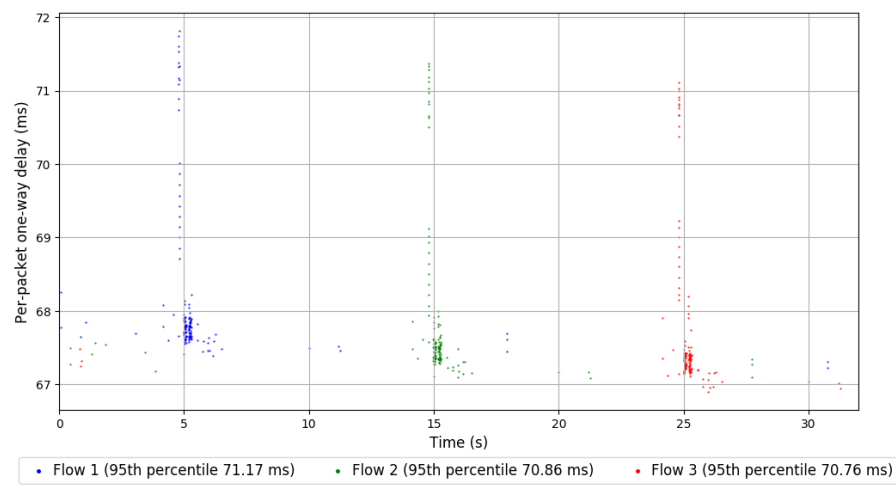
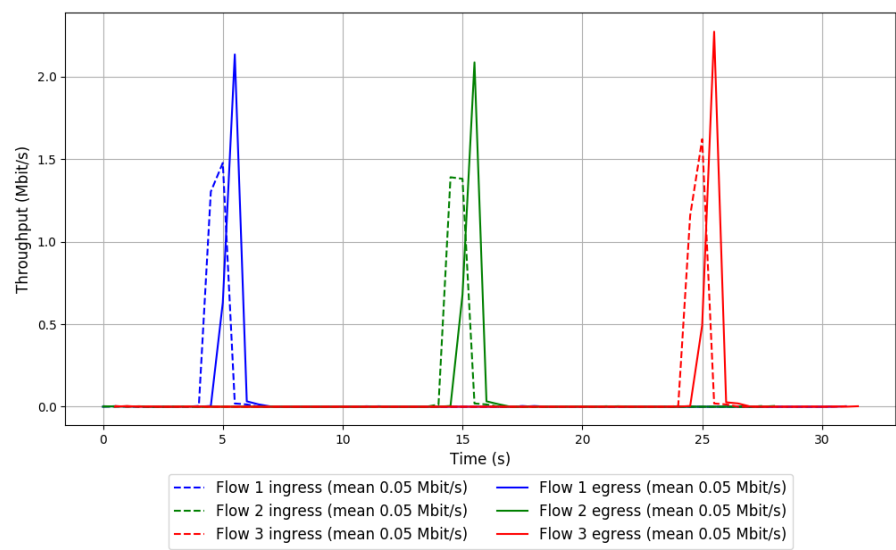


Run 3: Statistics of WebRTC media

Start at: 2019-03-27 02:46:29
End at: 2019-03-27 02:46:59
Local clock offset: 2.578 ms
Remote clock offset: -35.016 ms

Below is generated by plot.py at 2019-03-27 04:44:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 70.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 71.169 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.857 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 70.756 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

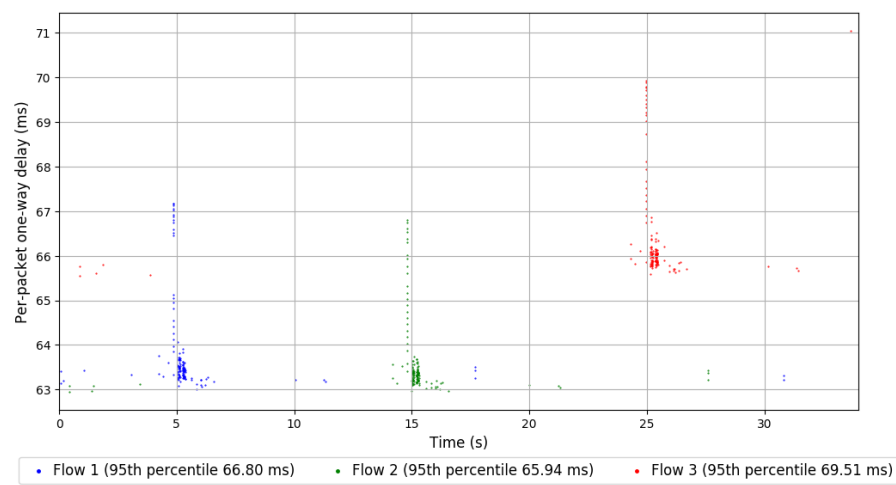
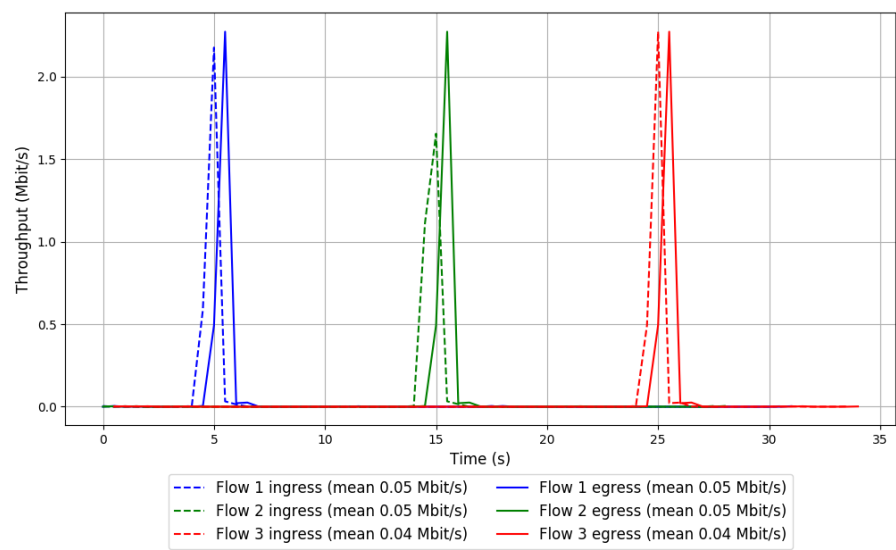


Run 4: Statistics of WebRTC media

Start at: 2019-03-27 03:16:57
End at: 2019-03-27 03:17:27
Local clock offset: 0.349 ms
Remote clock offset: -35.388 ms

Below is generated by plot.py at 2019-03-27 04:44:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 67.138 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 66.795 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 65.938 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 69.509 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-03-27 03:58:47
End at: 2019-03-27 03:59:17
Local clock offset: 34.463 ms
Remote clock offset: -33.238 ms

Below is generated by plot.py at 2019-03-27 04:44:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 35.501 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 37.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 35.388 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 34.942 ms
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

