

Pantheon Report

Generated at 2019-01-22 05:16:30 (UTC).

Data path: India on `em1` (*remote*) → AWS India 1 on `ens5` (*local*).

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:

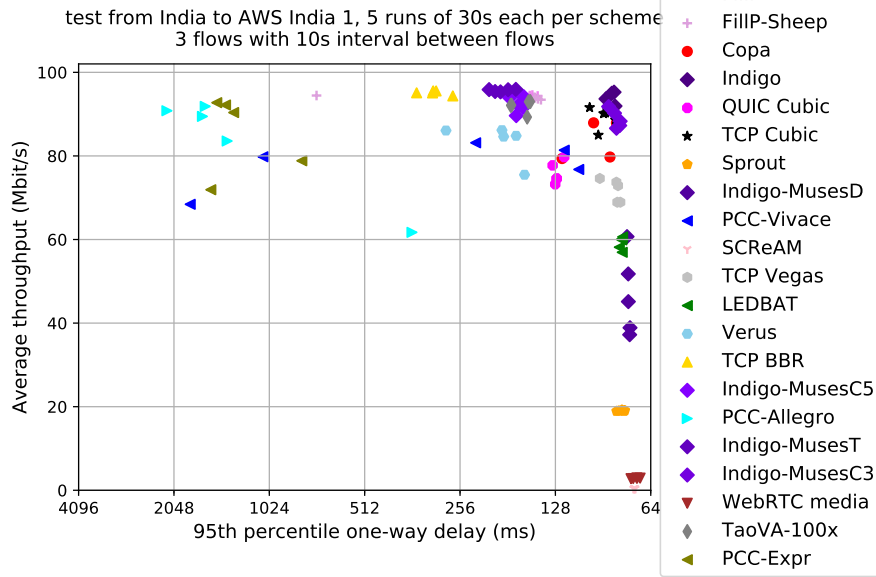
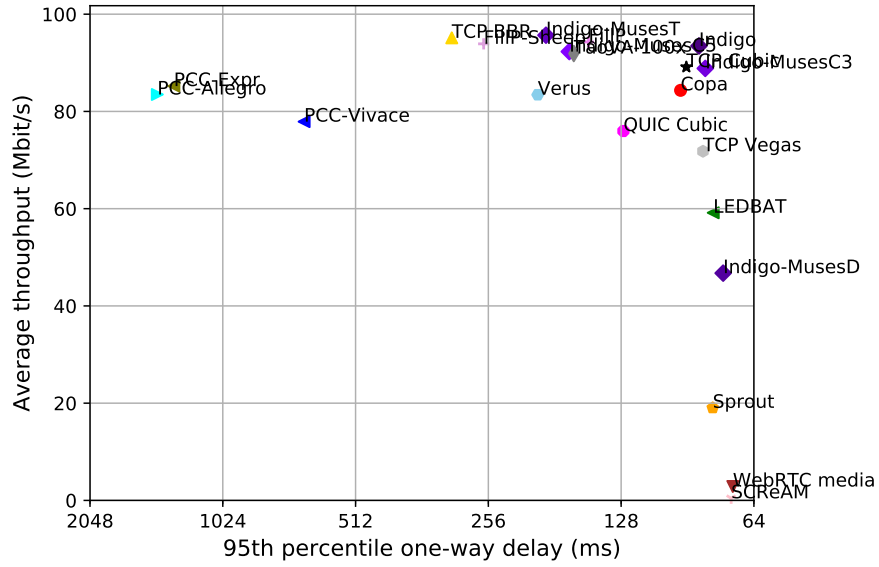
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecd90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
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 India to AWS India 1, 5 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



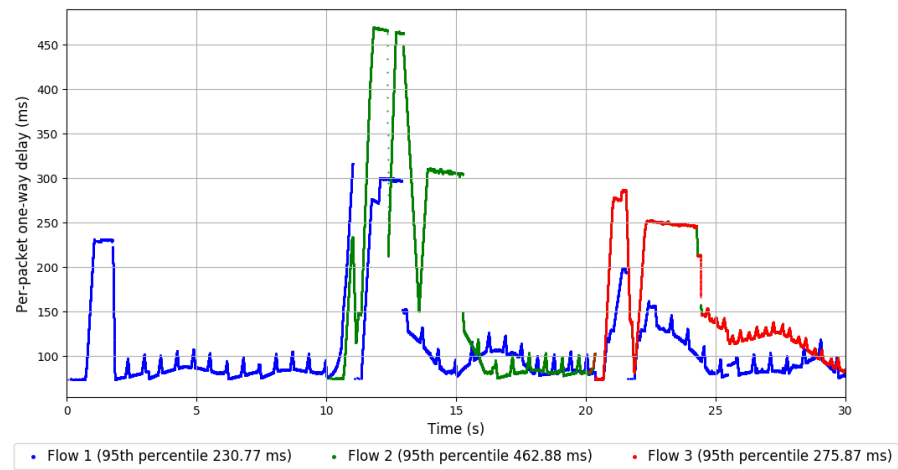
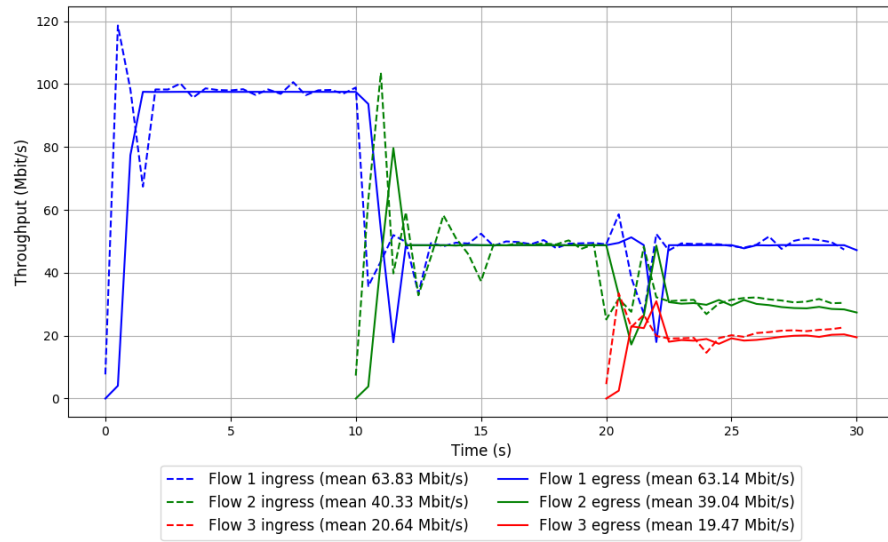
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	59.92	38.83	28.35	239.68	316.01	455.34	2.17	3.22	4.68
Copa	5	53.42	35.03	22.99	96.06	82.44	100.83	0.19	0.36	0.84
TCP Cubic	5	52.30	38.41	34.12	92.47	89.66	100.89	0.18	0.39	0.76
FillP	5	55.63	42.76	30.93	150.00	152.72	140.19	0.64	2.36	3.04
FillP-Sheep	5	59.21	37.78	28.92	257.02	270.45	268.31	0.41	0.86	1.67
Indigo	5	58.24	39.52	27.47	88.00	83.65	86.23	0.24	0.38	0.87
Indigo-MusesC3	5	60.90	31.89	27.88	82.61	82.09	81.88	0.13	0.23	1.74
Indigo-MusesC5	5	56.69	38.01	40.47	154.73	182.67	156.63	1.48	3.37	4.72
Indigo-MusesD	5	31.57	21.59	5.10	74.31	74.55	71.95	0.04	0.07	1.03
Indigo-MusesT	5	62.58	40.20	27.13	164.52	238.27	142.26	1.71	4.29	3.17
LEDBAT	5	36.01	25.85	17.96	79.54	79.47	74.90	0.19	0.46	1.60
PCC-Allegro	5	54.49	33.74	20.08	1381.19	1082.25	206.38	7.15	6.30	1.45
PCC-Expr	5	54.28	34.07	25.14	1003.68	1543.62	230.87	31.28	18.19	1.78
QUIC Cubic	5	44.73	32.56	29.22	111.99	132.34	172.49	0.46	0.41	1.32
SCReAM	5	0.22	0.22	0.22	72.01	71.89	71.99	0.26	0.39	0.72
Sprout	5	9.65	9.55	9.29	78.99	79.78	79.94	0.30	0.50	0.65
TaoVA-100x	5	56.22	34.98	37.53	152.15	177.76	163.15	0.53	1.25	2.57
TCP Vegas	5	36.26	34.26	38.56	103.76	83.76	79.75	0.21	0.38	0.92
Verus	5	54.47	32.98	21.28	163.87	216.79	293.72	0.33	0.83	1.27
PCC-Vivace	5	53.71	28.14	16.74	729.34	85.31	118.90	2.51	0.82	1.52
WebRTC media	5	1.59	0.91	0.38	71.50	71.26	71.29	0.19	0.53	1.36

Run 1: Statistics of TCP BBR

Start at: 2019-01-22 02:30:57
End at: 2019-01-22 02:31:27
Local clock offset: 0.834 ms
Remote clock offset: -7.181 ms

Below is generated by plot.py at 2019-01-22 05:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.56 Mbit/s
95th percentile per-packet one-way delay: 304.615 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 230.767 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 39.04 Mbit/s
95th percentile per-packet one-way delay: 462.883 ms
Loss rate: 3.59%
-- Flow 3:
Average throughput: 19.47 Mbit/s
95th percentile per-packet one-way delay: 275.866 ms
Loss rate: 6.47%

Run 1: Report of TCP BBR — Data Link

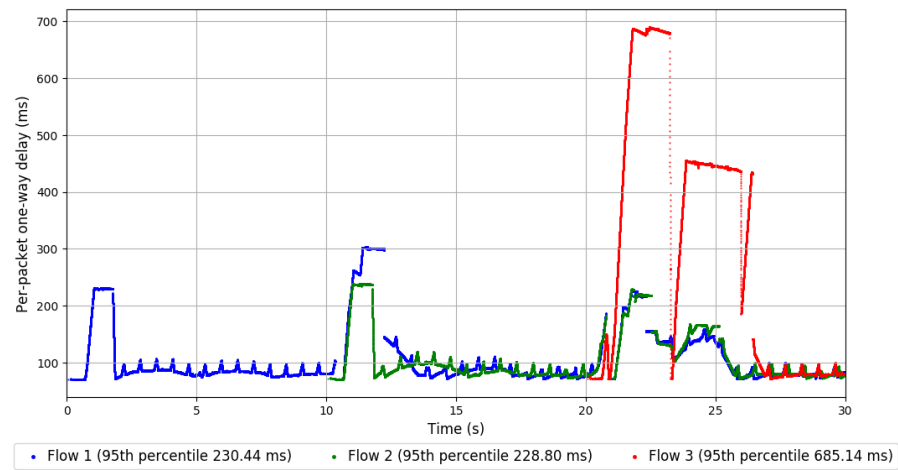
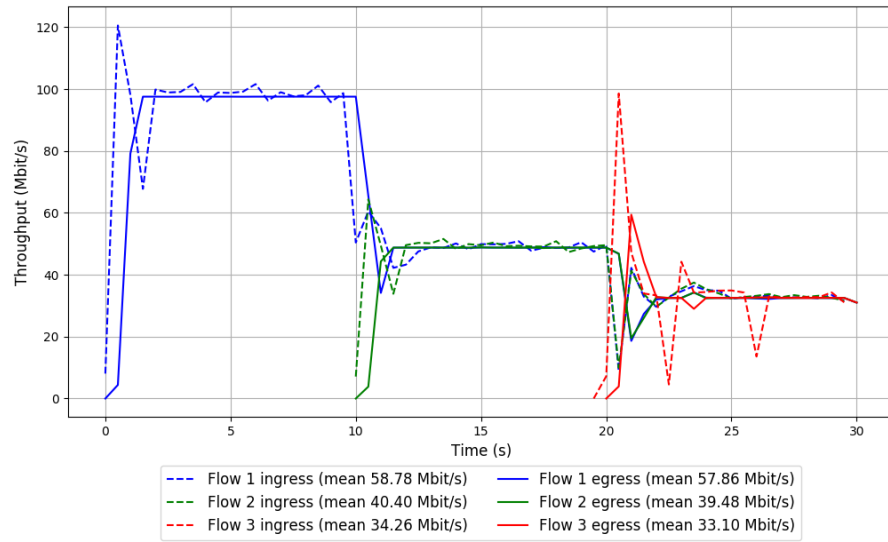


Run 2: Statistics of TCP BBR

Start at: 2019-01-22 02:59:48
End at: 2019-01-22 03:00:18
Local clock offset: 0.174 ms
Remote clock offset: -6.424 ms

Below is generated by plot.py at 2019-01-22 05:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.10 Mbit/s
95th percentile per-packet one-way delay: 351.021 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 57.86 Mbit/s
95th percentile per-packet one-way delay: 230.443 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 39.48 Mbit/s
95th percentile per-packet one-way delay: 228.796 ms
Loss rate: 2.68%
-- Flow 3:
Average throughput: 33.10 Mbit/s
95th percentile per-packet one-way delay: 685.141 ms
Loss rate: 4.17%

Run 2: Report of TCP BBR — Data Link

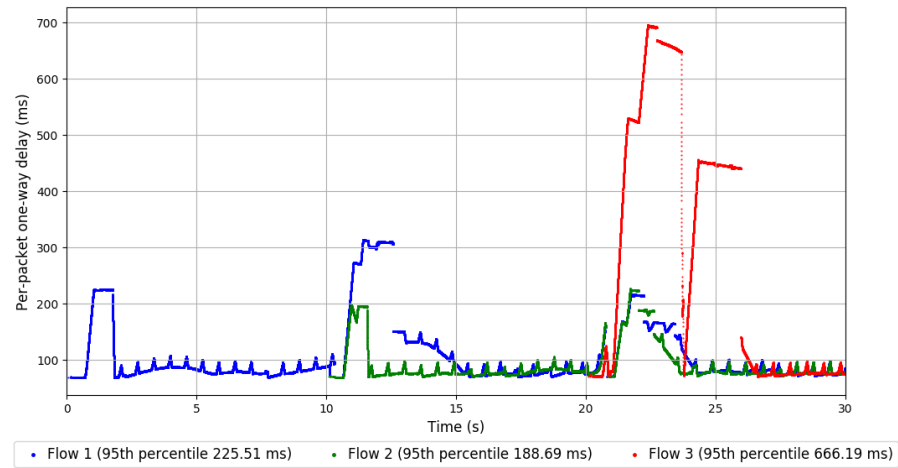
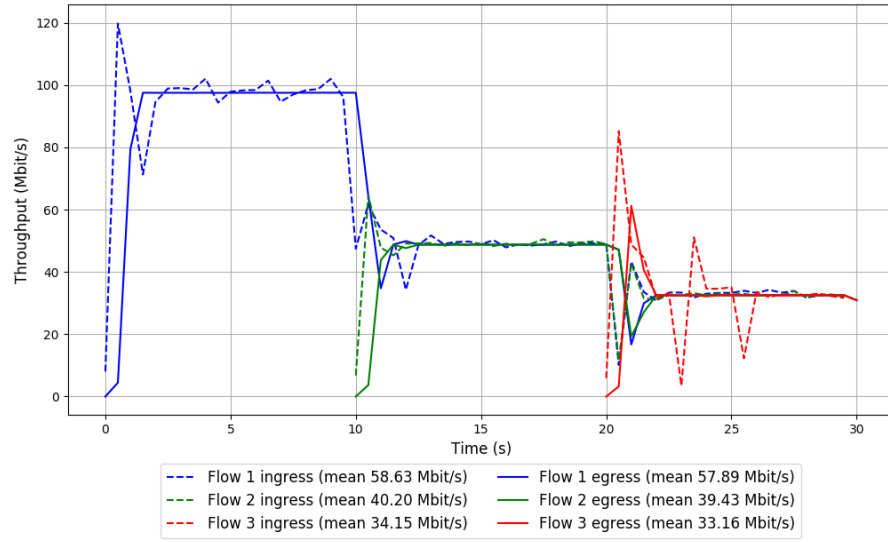


Run 3: Statistics of TCP BBR

Start at: 2019-01-22 03:29:12
End at: 2019-01-22 03:29:42
Local clock offset: -0.825 ms
Remote clock offset: -5.237 ms

Below is generated by plot.py at 2019-01-22 05:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.08 Mbit/s
95th percentile per-packet one-way delay: 312.646 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 57.89 Mbit/s
95th percentile per-packet one-way delay: 225.514 ms
Loss rate: 1.53%
-- Flow 2:
Average throughput: 39.43 Mbit/s
95th percentile per-packet one-way delay: 188.688 ms
Loss rate: 2.29%
-- Flow 3:
Average throughput: 33.16 Mbit/s
95th percentile per-packet one-way delay: 666.192 ms
Loss rate: 3.73%

Run 3: Report of TCP BBR — Data Link

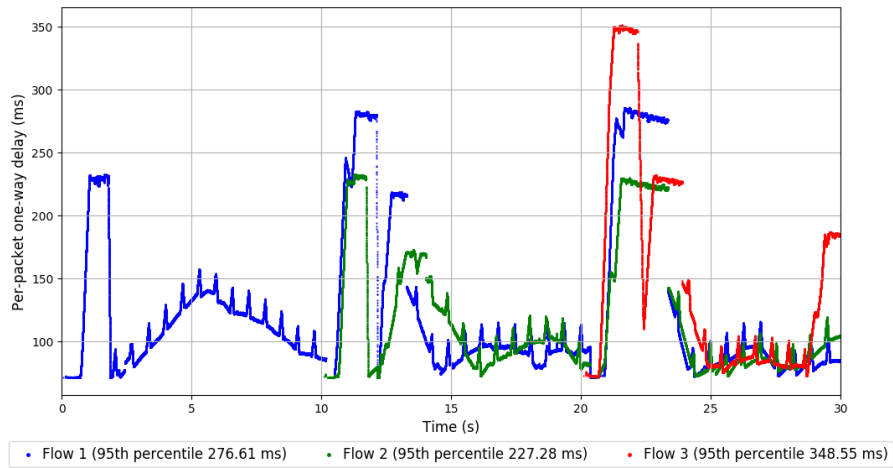
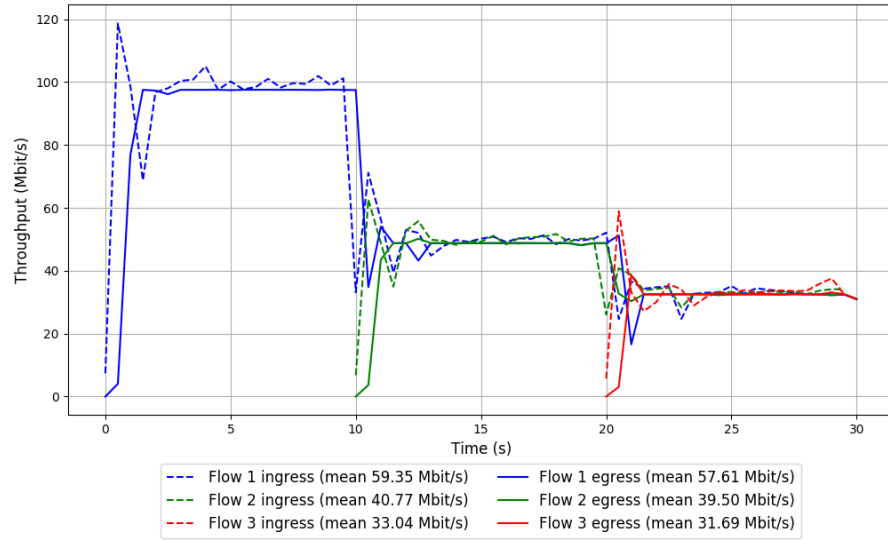


Run 4: Statistics of TCP BBR

Start at: 2019-01-22 04:00:38
End at: 2019-01-22 04:01:08
Local clock offset: 0.43 ms
Remote clock offset: -5.236 ms

Below is generated by plot.py at 2019-01-22 05:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.36 Mbit/s
95th percentile per-packet one-way delay: 269.836 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 276.607 ms
Loss rate: 3.19%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 227.277 ms
Loss rate: 3.51%
-- Flow 3:
Average throughput: 31.69 Mbit/s
95th percentile per-packet one-way delay: 348.547 ms
Loss rate: 4.82%

Run 4: Report of TCP BBR — Data Link



Run 5: Statistics of TCP BBR

Start at: 2019-01-22 04:32:37

End at: 2019-01-22 04:33:07

Local clock offset: -0.158 ms

Remote clock offset: -3.82 ms

Below is generated by plot.py at 2019-01-22 05:04:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 95.56 Mbit/s

95th percentile per-packet one-way delay: 311.244 ms

Loss rate: 3.34%

-- Flow 1:

Average throughput: 63.11 Mbit/s

95th percentile per-packet one-way delay: 235.092 ms

Loss rate: 2.96%

-- Flow 2:

Average throughput: 36.68 Mbit/s

95th percentile per-packet one-way delay: 472.390 ms

Loss rate: 4.04%

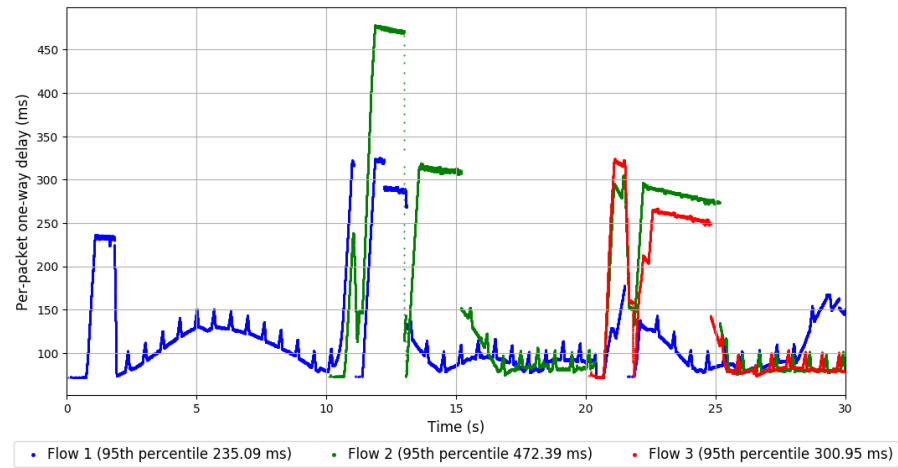
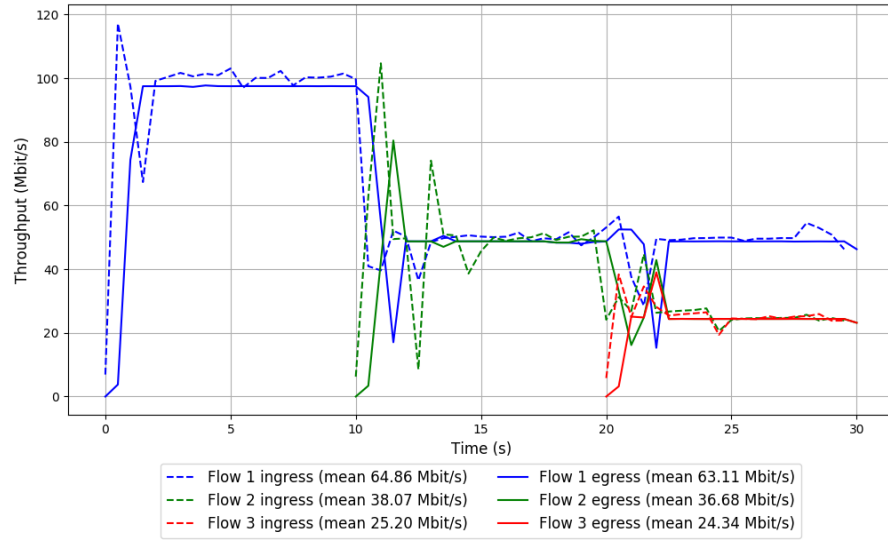
-- Flow 3:

Average throughput: 24.34 Mbit/s

95th percentile per-packet one-way delay: 300.947 ms

Loss rate: 4.20%

Run 5: Report of TCP BBR — Data Link

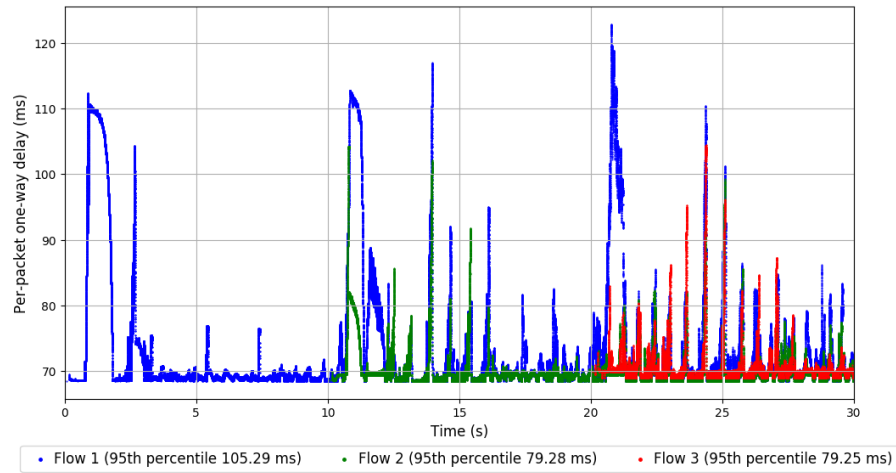
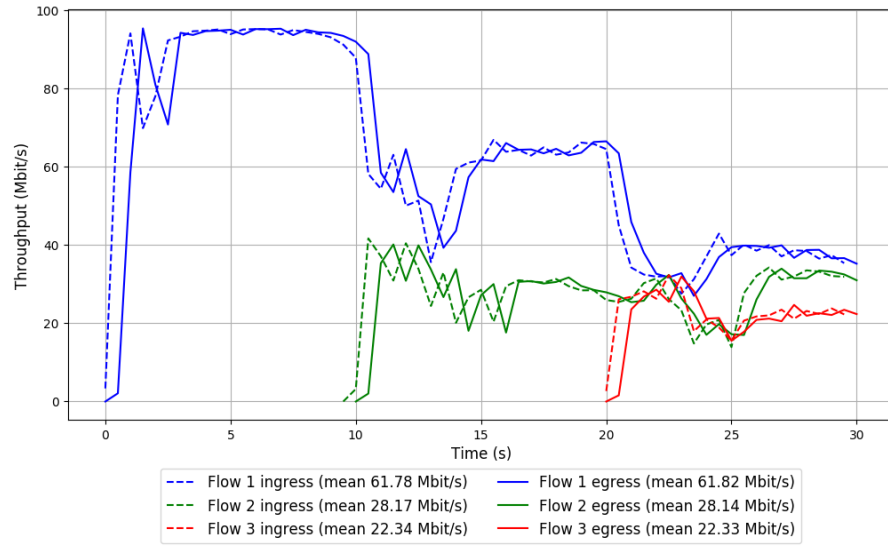


Run 1: Statistics of Copa

Start at: 2019-01-22 02:49:45
End at: 2019-01-22 02:50:15
Local clock offset: -2.2 ms
Remote clock offset: -6.012 ms

Below is generated by plot.py at 2019-01-22 05:04:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.92 Mbit/s
95th percentile per-packet one-way delay: 96.967 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 61.82 Mbit/s
95th percentile per-packet one-way delay: 105.289 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 28.14 Mbit/s
95th percentile per-packet one-way delay: 79.281 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 22.33 Mbit/s
95th percentile per-packet one-way delay: 79.248 ms
Loss rate: 0.83%

Run 1: Report of Copa — Data Link

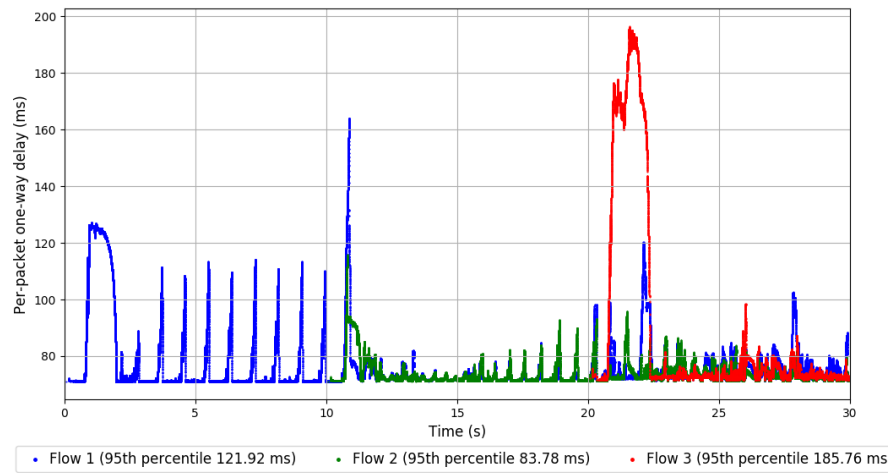
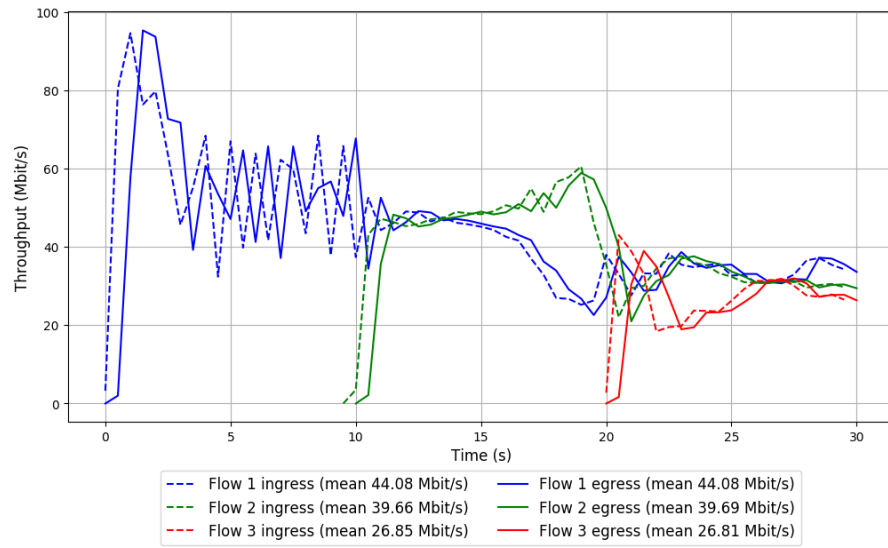


Run 2: Statistics of Copa

Start at: 2019-01-22 03:19:25
End at: 2019-01-22 03:19:55
Local clock offset: 0.249 ms
Remote clock offset: -6.435 ms

Below is generated by plot.py at 2019-01-22 05:04:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.38 Mbit/s
95th percentile per-packet one-way delay: 121.978 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 44.08 Mbit/s
95th percentile per-packet one-way delay: 121.917 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 39.69 Mbit/s
95th percentile per-packet one-way delay: 83.778 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 26.81 Mbit/s
95th percentile per-packet one-way delay: 185.764 ms
Loss rate: 0.93%

Run 2: Report of Copa — Data Link

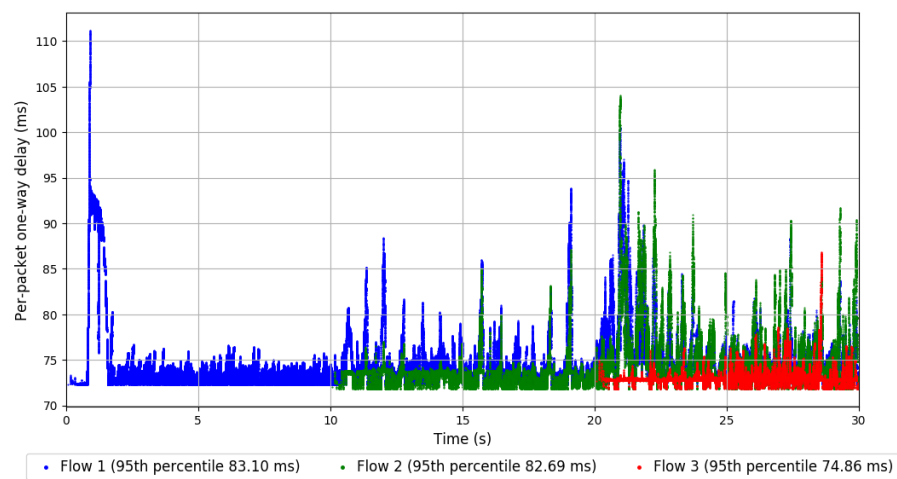
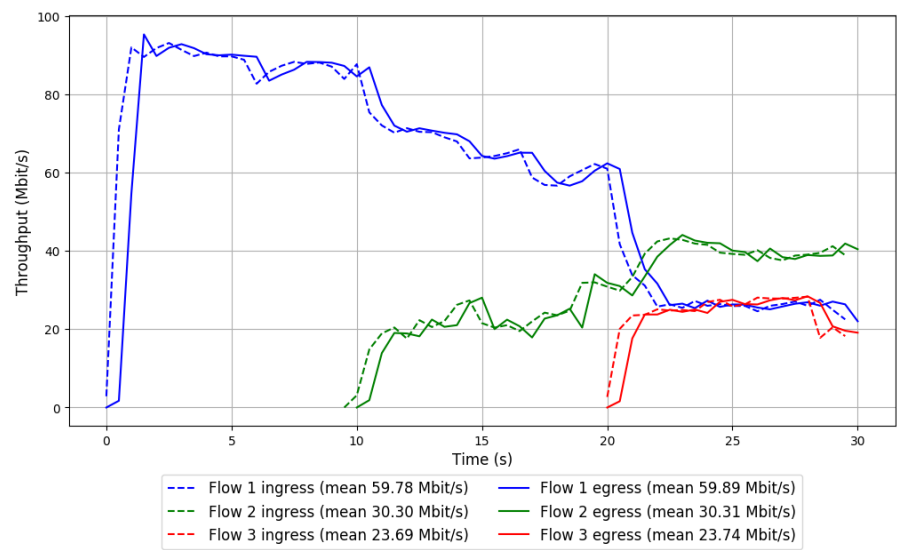


Run 3: Statistics of Copa

Start at: 2019-01-22 03:49:39
End at: 2019-01-22 03:50:09
Local clock offset: -0.287 ms
Remote clock offset: -6.554 ms

Below is generated by plot.py at 2019-01-22 05:04:55
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.91 Mbit/s
95th percentile per-packet one-way delay: 82.142 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 59.89 Mbit/s
95th percentile per-packet one-way delay: 83.104 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 30.31 Mbit/s
95th percentile per-packet one-way delay: 82.691 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 74.861 ms
Loss rate: 0.57%

Run 3: Report of Copa — Data Link

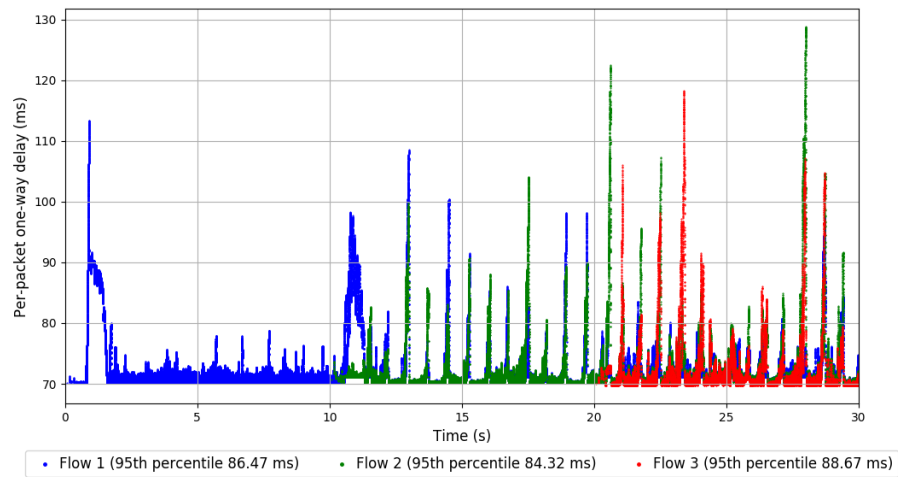
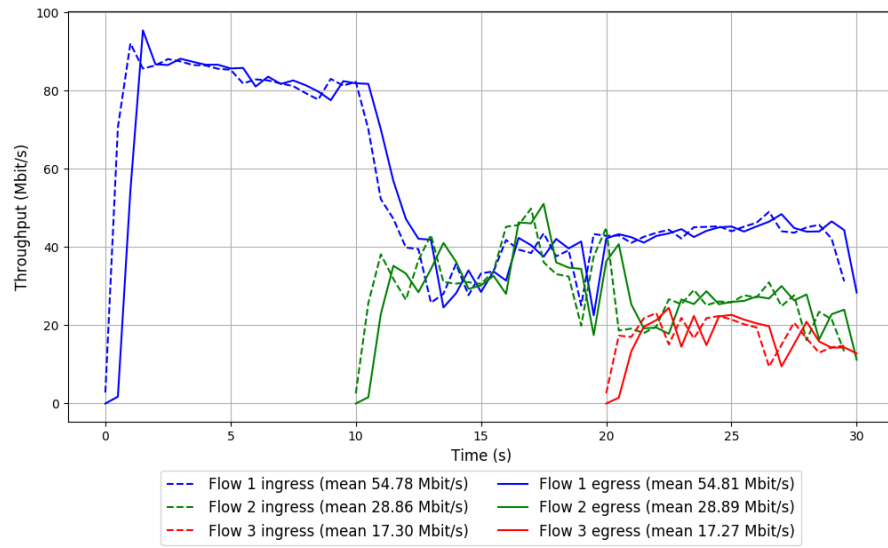


Run 4: Statistics of Copa

Start at: 2019-01-22 04:21:58
End at: 2019-01-22 04:22:28
Local clock offset: -2.388 ms
Remote clock offset: -4.994 ms

Below is generated by plot.py at 2019-01-22 05:05:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.74 Mbit/s
95th percentile per-packet one-way delay: 86.082 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 54.81 Mbit/s
95th percentile per-packet one-way delay: 86.473 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 28.89 Mbit/s
95th percentile per-packet one-way delay: 84.321 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 17.27 Mbit/s
95th percentile per-packet one-way delay: 88.669 ms
Loss rate: 0.97%

Run 4: Report of Copa — Data Link

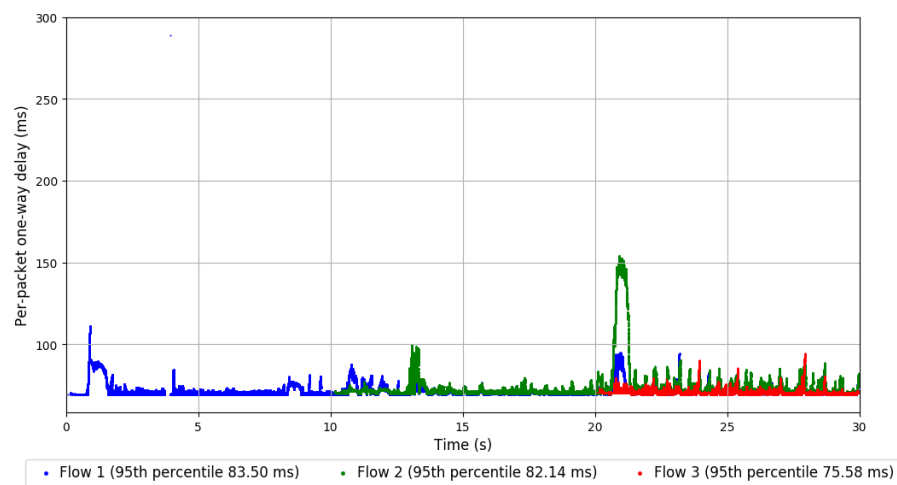
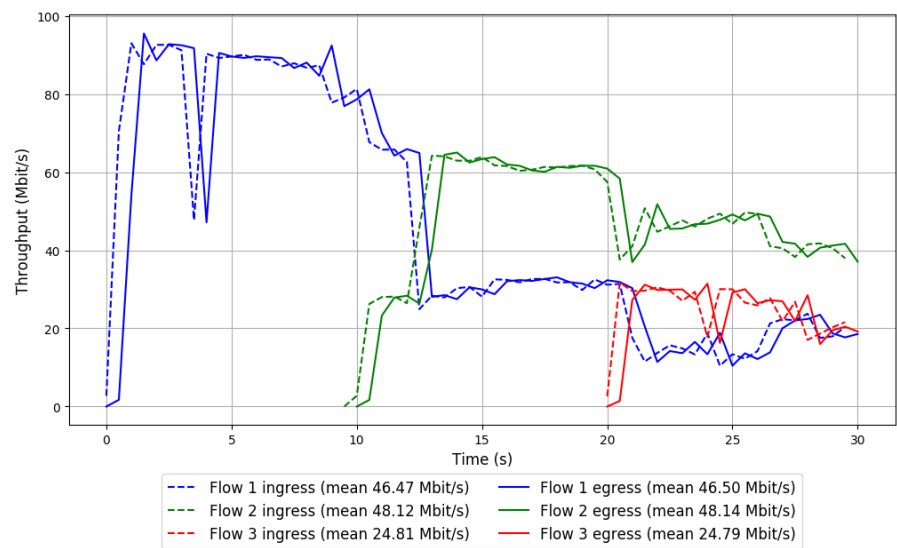


Run 5: Statistics of Copa

Start at: 2019-01-22 04:53:21
End at: 2019-01-22 04:53:51
Local clock offset: -1.105 ms
Remote clock offset: -3.249 ms

Below is generated by plot.py at 2019-01-22 05:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.73 Mbit/s
95th percentile per-packet one-way delay: 82.084 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 46.50 Mbit/s
95th percentile per-packet one-way delay: 83.503 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 48.14 Mbit/s
95th percentile per-packet one-way delay: 82.142 ms
Loss rate: 0.34%
-- Flow 3:
Average throughput: 24.79 Mbit/s
95th percentile per-packet one-way delay: 75.584 ms
Loss rate: 0.91%

Run 5: Report of Copa — Data Link

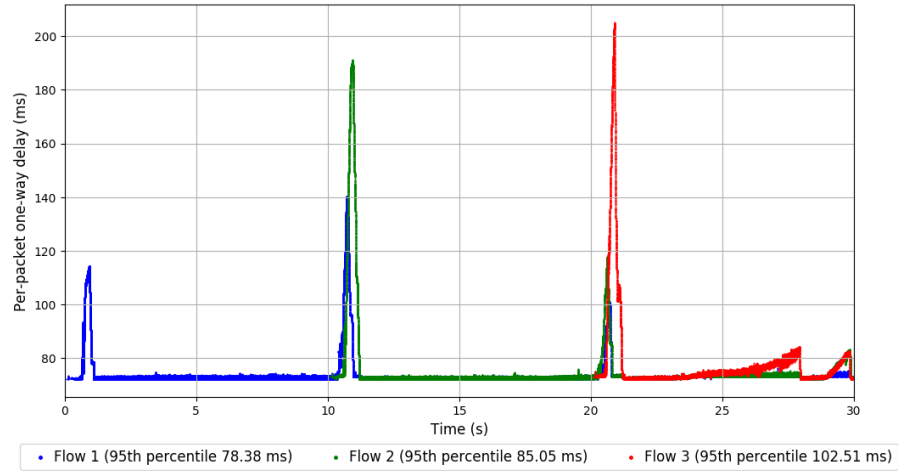
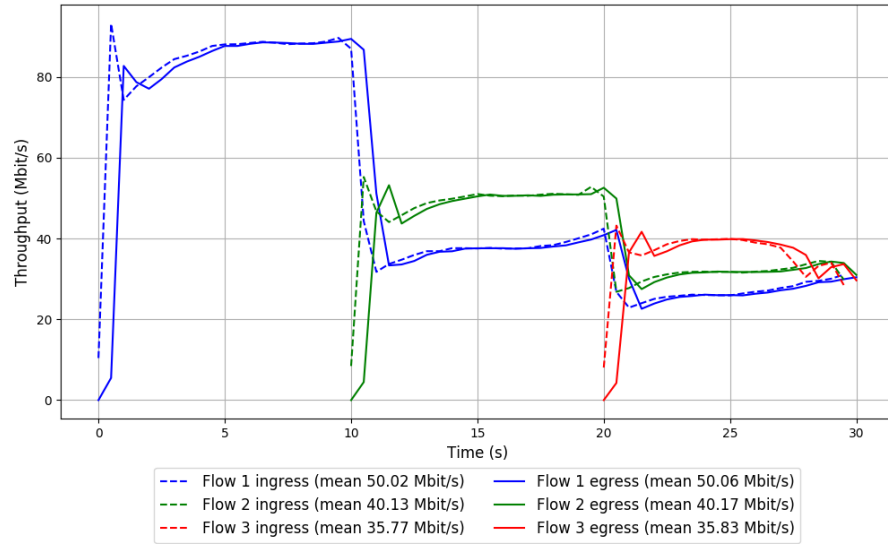


Run 1: Statistics of TCP Cubic

Start at: 2019-01-22 02:35:02
End at: 2019-01-22 02:35:32
Local clock offset: -0.84 ms
Remote clock offset: -7.625 ms

Below is generated by plot.py at 2019-01-22 05:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.64 Mbit/s
95th percentile per-packet one-way delay: 82.753 ms
Loss rate: 0.27%
-- Flow 1:
Average throughput: 50.06 Mbit/s
95th percentile per-packet one-way delay: 78.383 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 85.048 ms
Loss rate: 0.28%
-- Flow 3:
Average throughput: 35.83 Mbit/s
95th percentile per-packet one-way delay: 102.512 ms
Loss rate: 0.63%

Run 1: Report of TCP Cubic — Data Link

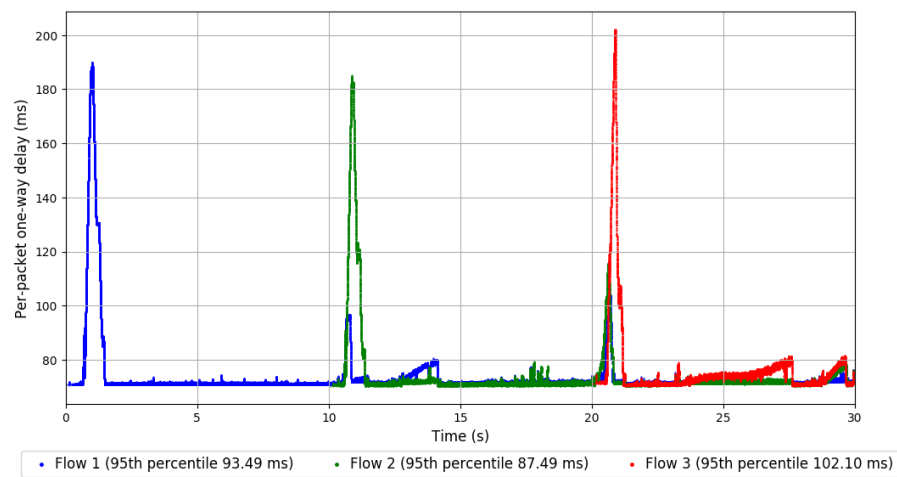
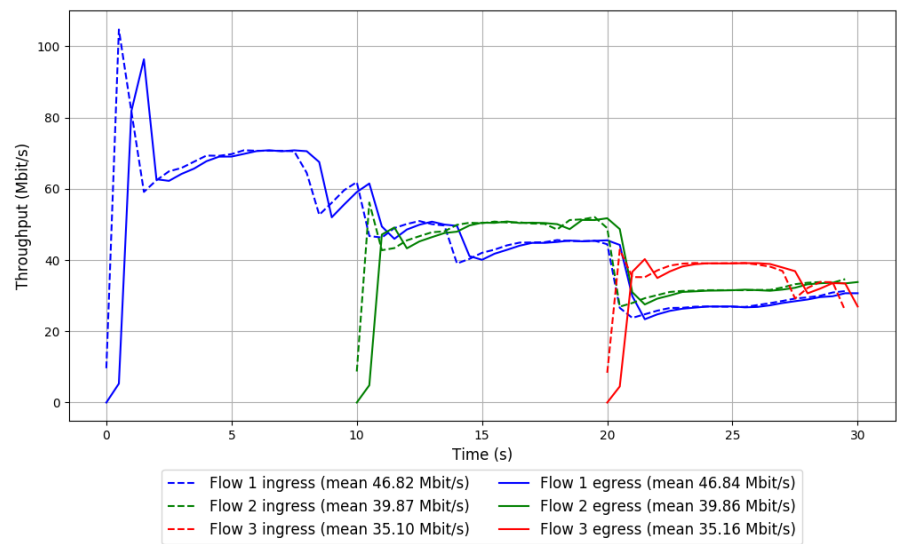


Run 2: Statistics of TCP Cubic

Start at: 2019-01-22 03:04:16
End at: 2019-01-22 03:04:46
Local clock offset: -0.363 ms
Remote clock offset: -6.733 ms

Below is generated by plot.py at 2019-01-22 05:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.99 Mbit/s
95th percentile per-packet one-way delay: 93.691 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 46.84 Mbit/s
95th percentile per-packet one-way delay: 93.492 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 39.86 Mbit/s
95th percentile per-packet one-way delay: 87.488 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 102.101 ms
Loss rate: 0.64%

Run 2: Report of TCP Cubic — Data Link

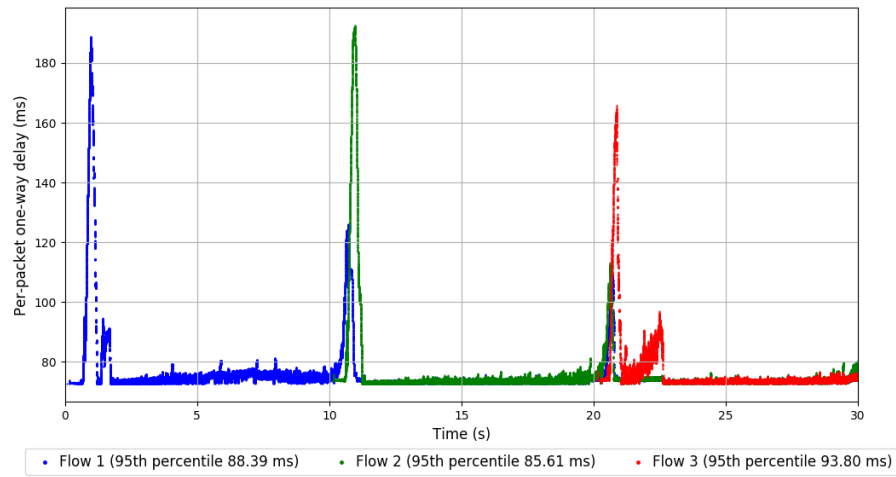
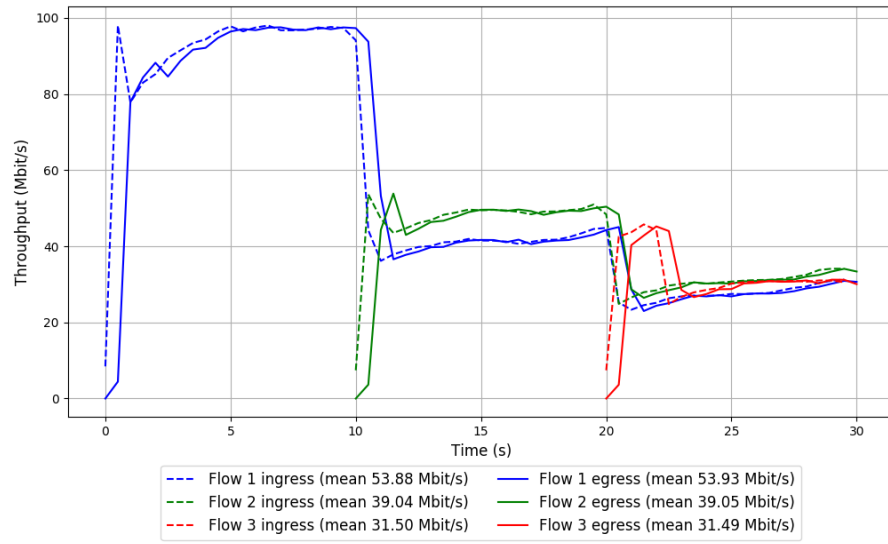


Run 3: Statistics of TCP Cubic

Start at: 2019-01-22 03:33:35
End at: 2019-01-22 03:34:05
Local clock offset: 1.144 ms
Remote clock offset: -6.564 ms

Below is generated by plot.py at 2019-01-22 05:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.30 Mbit/s
95th percentile per-packet one-way delay: 88.893 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 53.93 Mbit/s
95th percentile per-packet one-way delay: 88.395 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 39.05 Mbit/s
95th percentile per-packet one-way delay: 85.615 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 31.49 Mbit/s
95th percentile per-packet one-way delay: 93.797 ms
Loss rate: 0.84%

Run 3: Report of TCP Cubic — Data Link

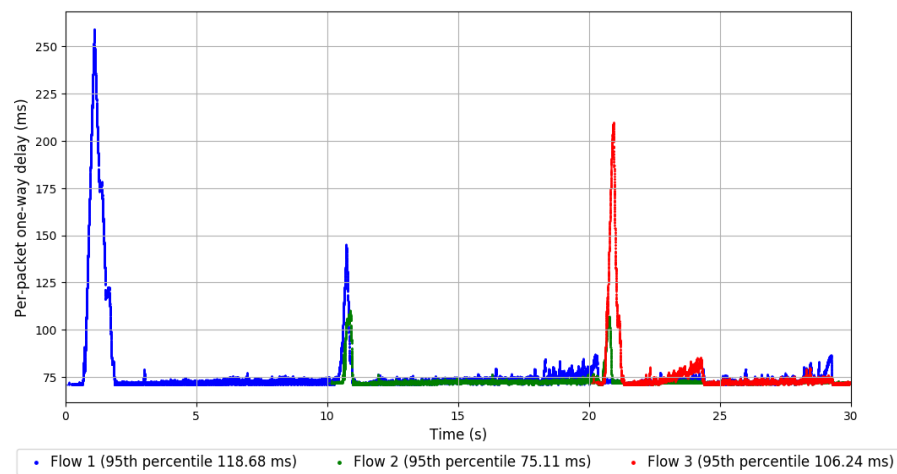
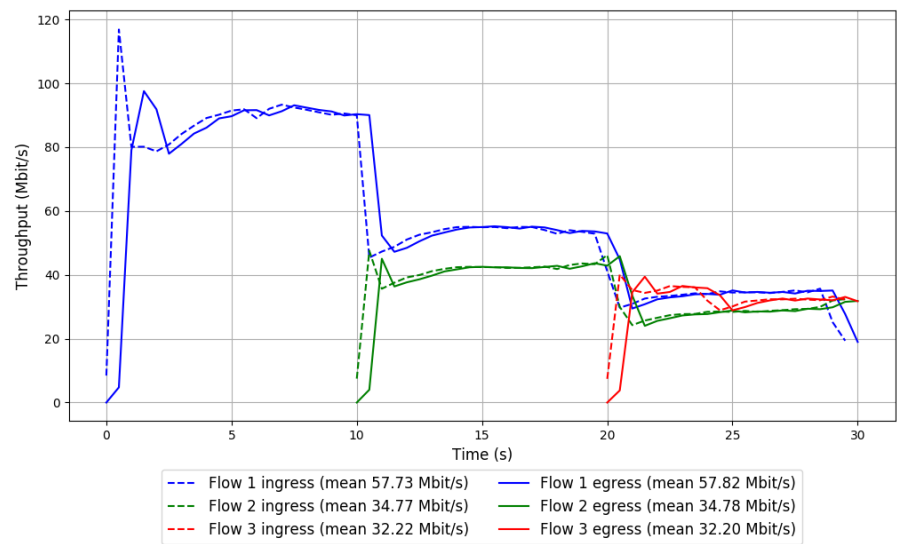


Run 4: Statistics of TCP Cubic

Start at: 2019-01-22 04:05:15
End at: 2019-01-22 04:05:45
Local clock offset: -0.642 ms
Remote clock offset: -5.403 ms

Below is generated by plot.py at 2019-01-22 05:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.59 Mbit/s
95th percentile per-packet one-way delay: 99.798 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 118.684 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 34.78 Mbit/s
95th percentile per-packet one-way delay: 75.110 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 32.20 Mbit/s
95th percentile per-packet one-way delay: 106.237 ms
Loss rate: 0.89%

Run 4: Report of TCP Cubic — Data Link

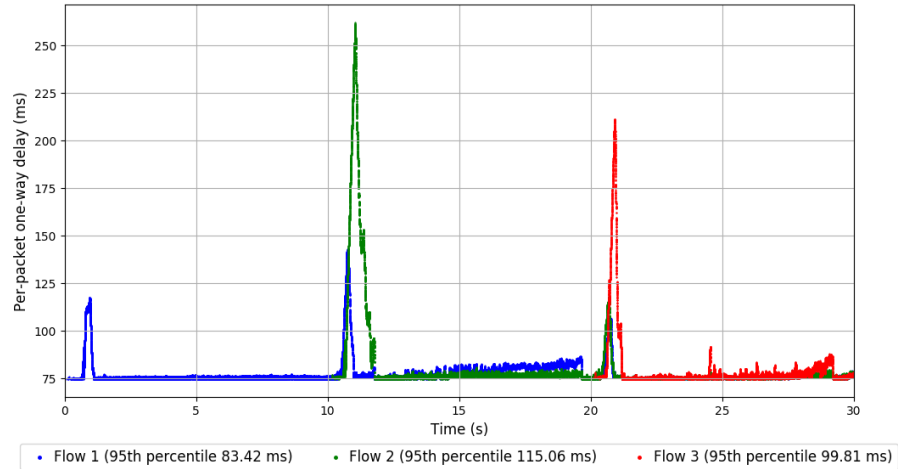
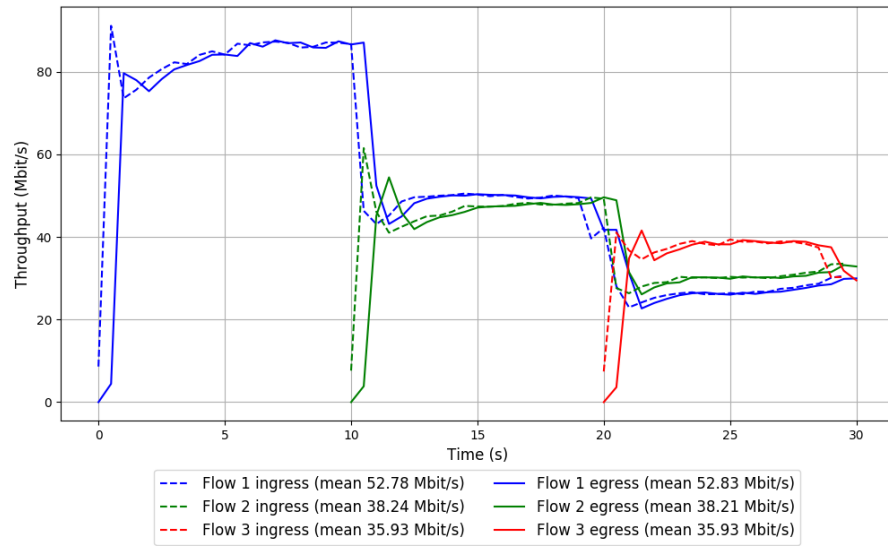


Run 5: Statistics of TCP Cubic

Start at: 2019-01-22 04:37:20
End at: 2019-01-22 04:37:50
Local clock offset: 0.354 ms
Remote clock offset: -6.052 ms

Below is generated by plot.py at 2019-01-22 05:05:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.13 Mbit/s
95th percentile per-packet one-way delay: 90.177 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 52.83 Mbit/s
95th percentile per-packet one-way delay: 83.421 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 115.062 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 35.93 Mbit/s
95th percentile per-packet one-way delay: 99.811 ms
Loss rate: 0.78%

Run 5: Report of TCP Cubic — Data Link

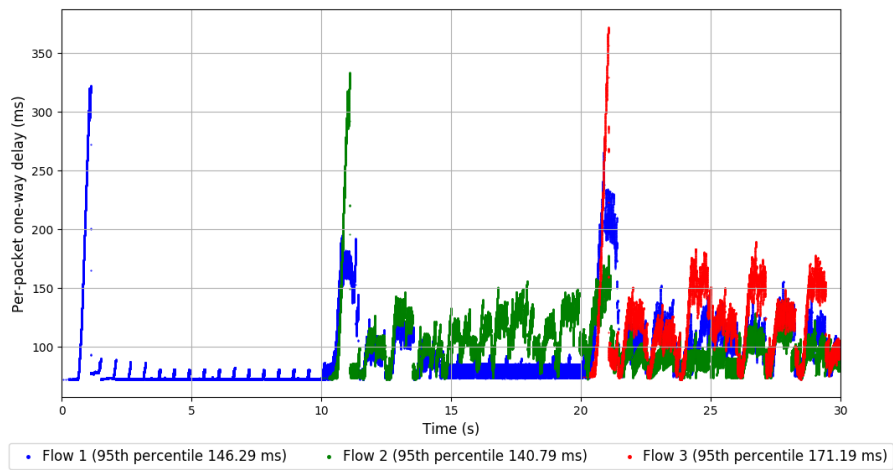
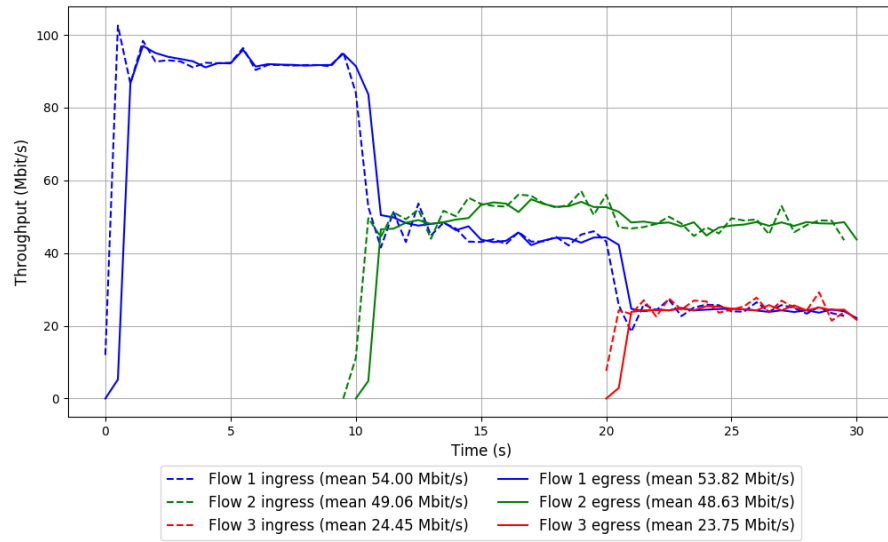


Run 1: Statistics of FillP

Start at: 2019-01-22 02:45:32
End at: 2019-01-22 02:46:02
Local clock offset: -0.435 ms
Remote clock offset: -7.506 ms

Below is generated by plot.py at 2019-01-22 05:06:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.01 Mbit/s
95th percentile per-packet one-way delay: 153.485 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 53.82 Mbit/s
95th percentile per-packet one-way delay: 146.291 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 48.63 Mbit/s
95th percentile per-packet one-way delay: 140.791 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 23.75 Mbit/s
95th percentile per-packet one-way delay: 171.192 ms
Loss rate: 3.65%

Run 1: Report of FillP — Data Link

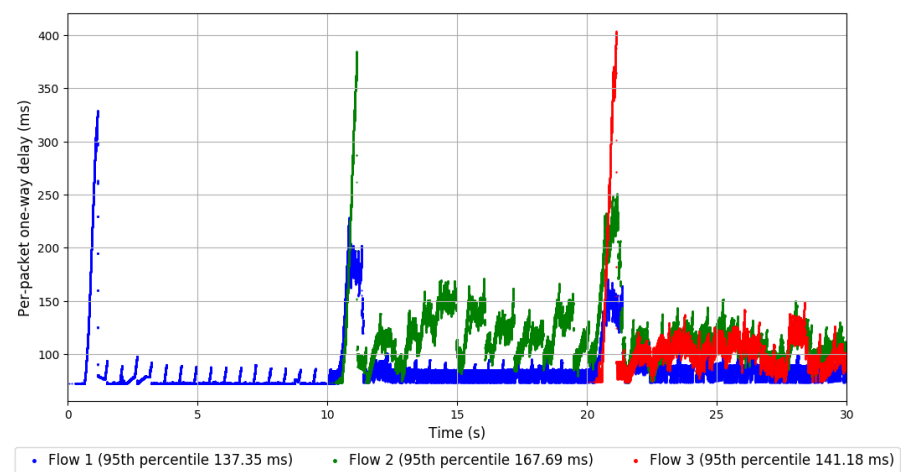
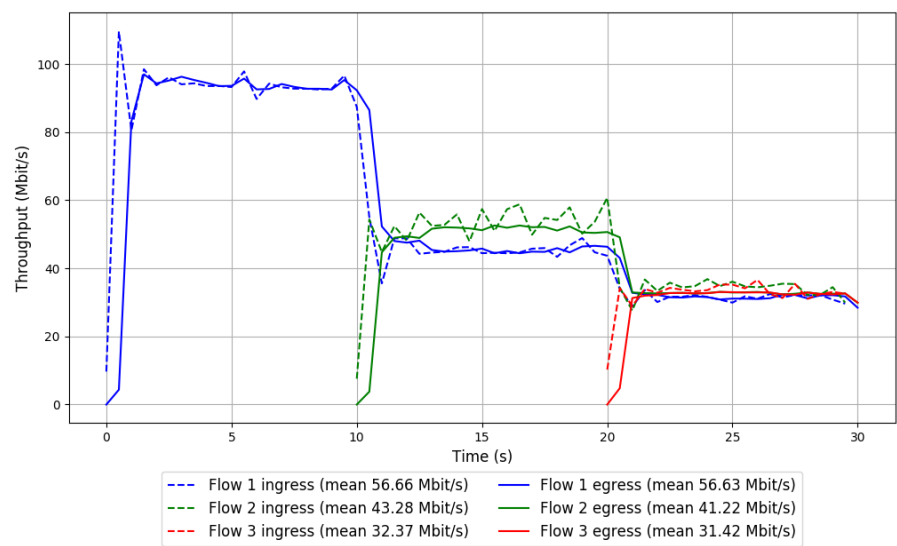


Run 2: Statistics of FillP

Start at: 2019-01-22 03:15:20
End at: 2019-01-22 03:15:50
Local clock offset: 0.802 ms
Remote clock offset: -7.616 ms

Below is generated by plot.py at 2019-01-22 05:06:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.44 Mbit/s
95th percentile per-packet one-way delay: 154.226 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 56.63 Mbit/s
95th percentile per-packet one-way delay: 137.351 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 41.22 Mbit/s
95th percentile per-packet one-way delay: 167.687 ms
Loss rate: 5.08%
-- Flow 3:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 141.178 ms
Loss rate: 3.66%

Run 2: Report of FillP — Data Link

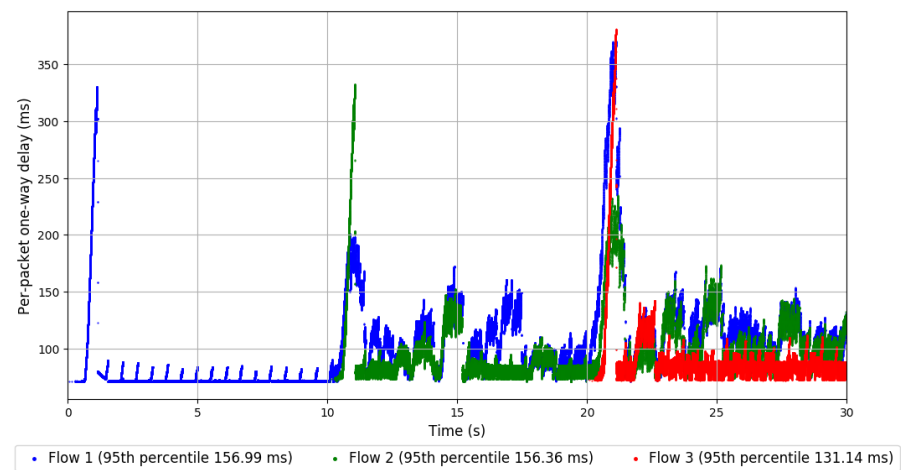
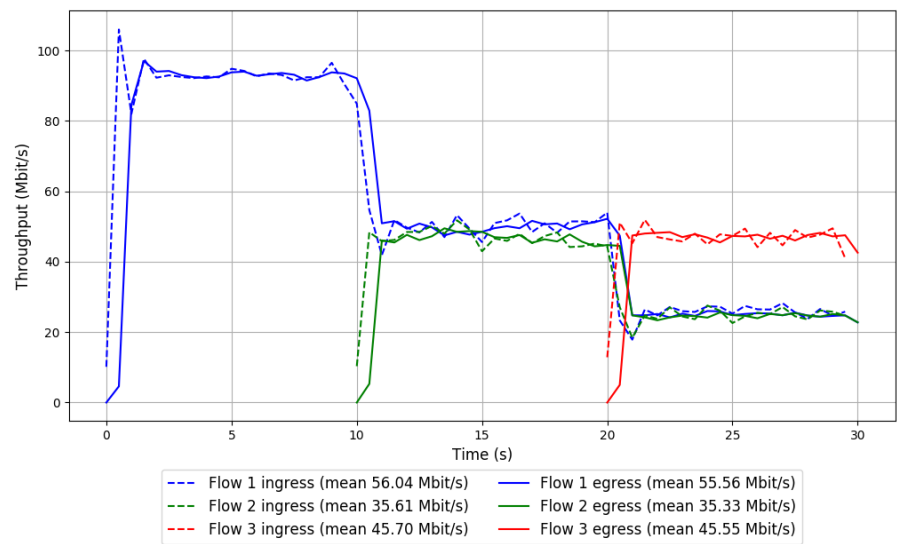


Run 3: Statistics of FillP

Start at: 2019-01-22 03:45:16
End at: 2019-01-22 03:45:46
Local clock offset: -0.166 ms
Remote clock offset: -6.202 ms

Below is generated by plot.py at 2019-01-22 05:06:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.10 Mbit/s
95th percentile per-packet one-way delay: 154.282 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 55.56 Mbit/s
95th percentile per-packet one-way delay: 156.985 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 35.33 Mbit/s
95th percentile per-packet one-way delay: 156.361 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 45.55 Mbit/s
95th percentile per-packet one-way delay: 131.140 ms
Loss rate: 1.02%

Run 3: Report of FillP — Data Link

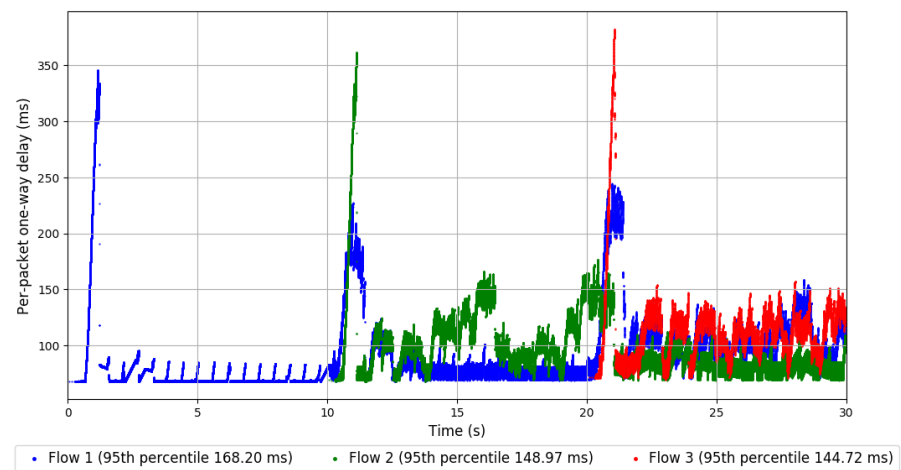
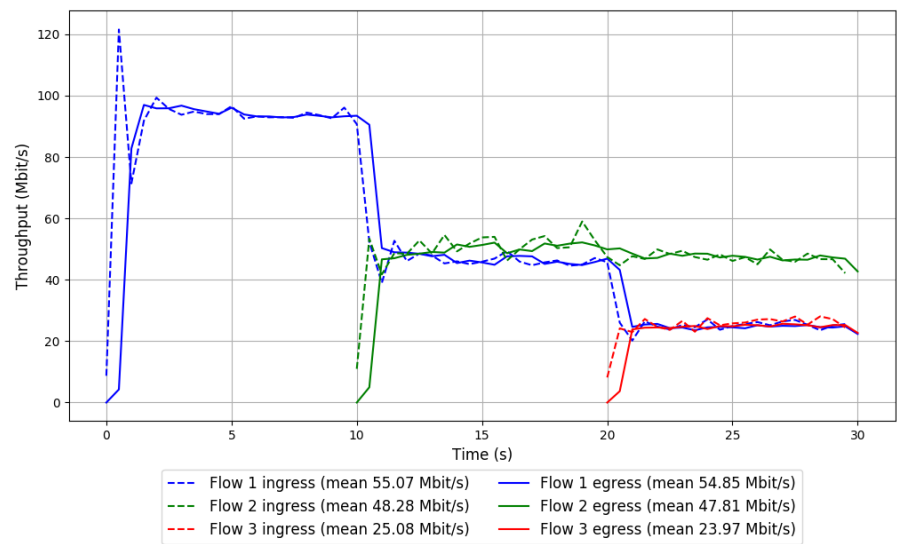


Run 4: Statistics of FillP

Start at: 2019-01-22 04:17:05
End at: 2019-01-22 04:17:35
Local clock offset: -1.709 ms
Remote clock offset: -3.293 ms

Below is generated by plot.py at 2019-01-22 05:06:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.56 Mbit/s
95th percentile per-packet one-way delay: 151.329 ms
Loss rate: 1.26%
-- Flow 1:
Average throughput: 54.85 Mbit/s
95th percentile per-packet one-way delay: 168.204 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 47.81 Mbit/s
95th percentile per-packet one-way delay: 148.968 ms
Loss rate: 1.26%
-- Flow 3:
Average throughput: 23.97 Mbit/s
95th percentile per-packet one-way delay: 144.718 ms
Loss rate: 5.12%

Run 4: Report of FillP — Data Link

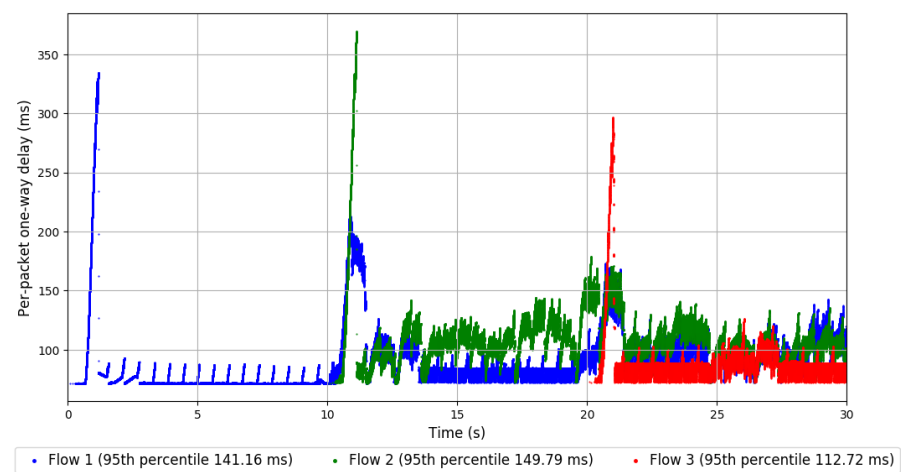
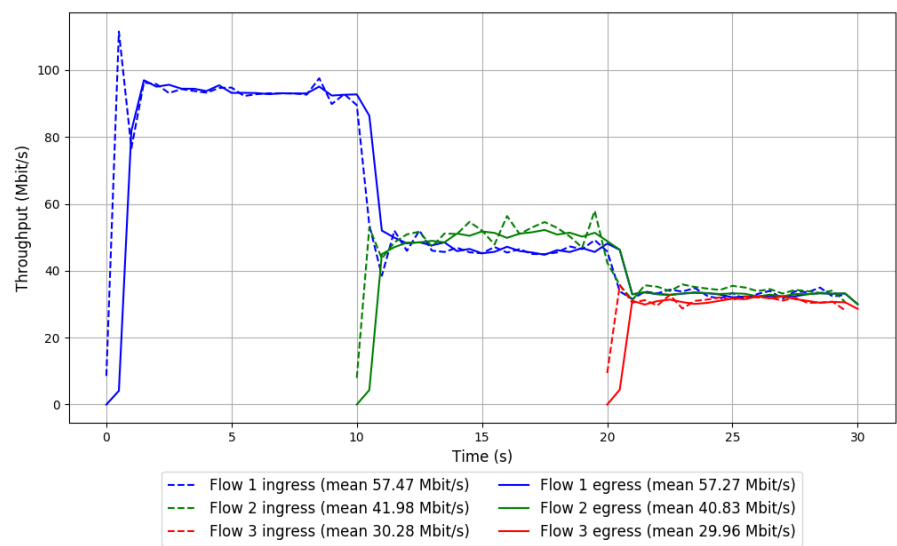


Run 5: Statistics of FillP

Start at: 2019-01-22 04:48:59
End at: 2019-01-22 04:49:29
Local clock offset: 0.092 ms
Remote clock offset: -3.652 ms

Below is generated by plot.py at 2019-01-22 05:07:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.34 Mbit/s
95th percentile per-packet one-way delay: 145.605 ms
Loss rate: 1.44%
-- Flow 1:
Average throughput: 57.27 Mbit/s
95th percentile per-packet one-way delay: 141.156 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 40.83 Mbit/s
95th percentile per-packet one-way delay: 149.788 ms
Loss rate: 3.05%
-- Flow 3:
Average throughput: 29.96 Mbit/s
95th percentile per-packet one-way delay: 112.723 ms
Loss rate: 1.74%

Run 5: Report of FillP — Data Link

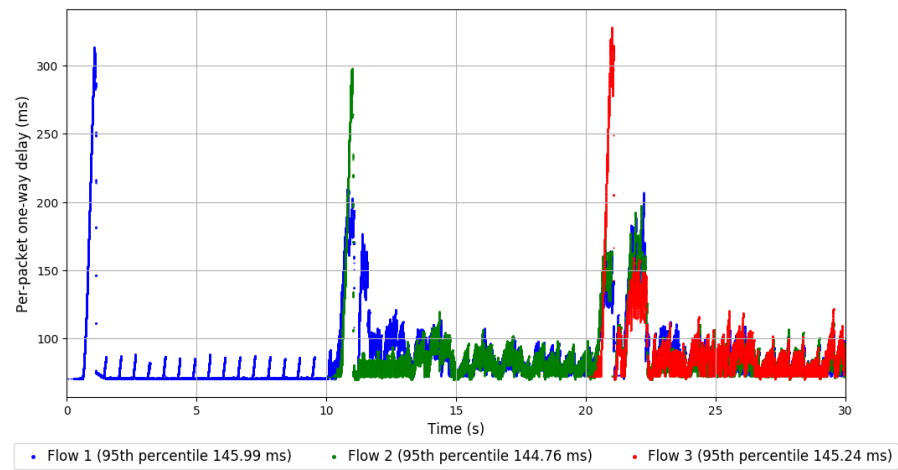
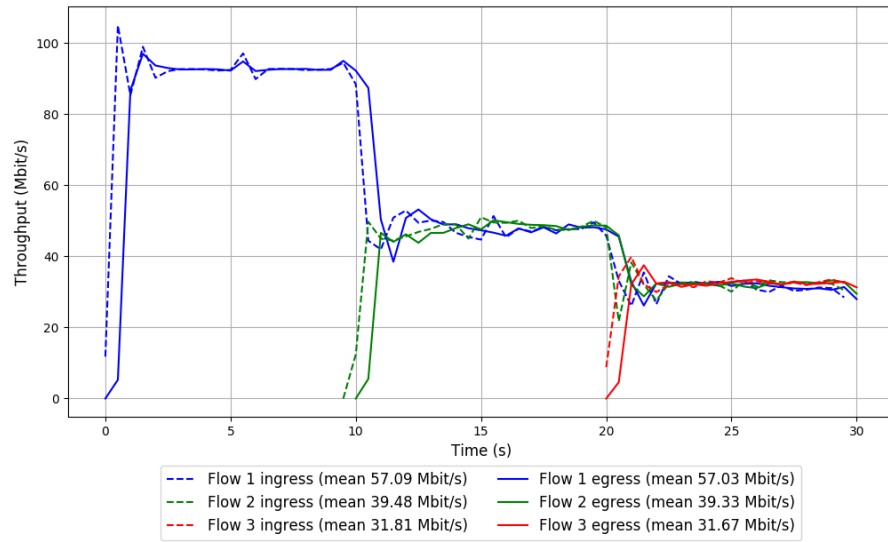


Run 1: Statistics of FillP-Sheep

Start at: 2019-01-22 02:40:16
End at: 2019-01-22 02:40:46
Local clock offset: -0.17 ms
Remote clock offset: -5.154 ms

Below is generated by plot.py at 2019-01-22 05:07:07
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 145.347 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 57.03 Mbit/s
95th percentile per-packet one-way delay: 145.992 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 39.33 Mbit/s
95th percentile per-packet one-way delay: 144.760 ms
Loss rate: 0.69%
-- Flow 3:
Average throughput: 31.67 Mbit/s
95th percentile per-packet one-way delay: 145.241 ms
Loss rate: 1.29%

Run 1: Report of FillP-Sheep — Data Link

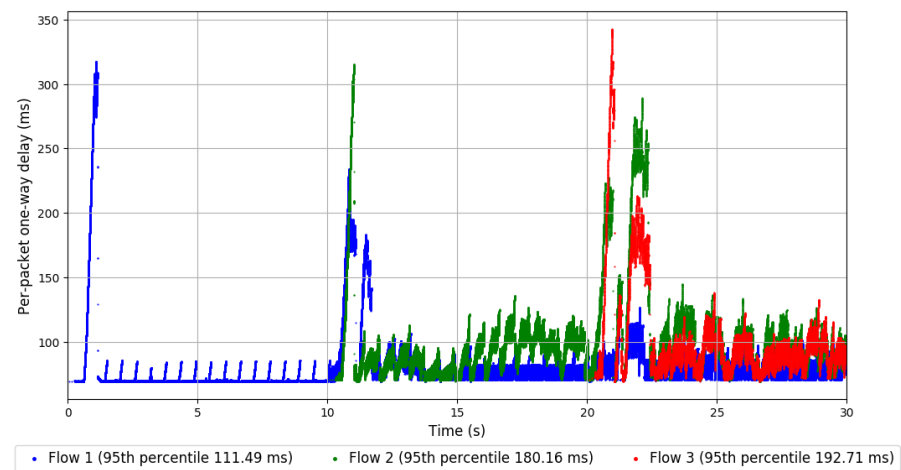
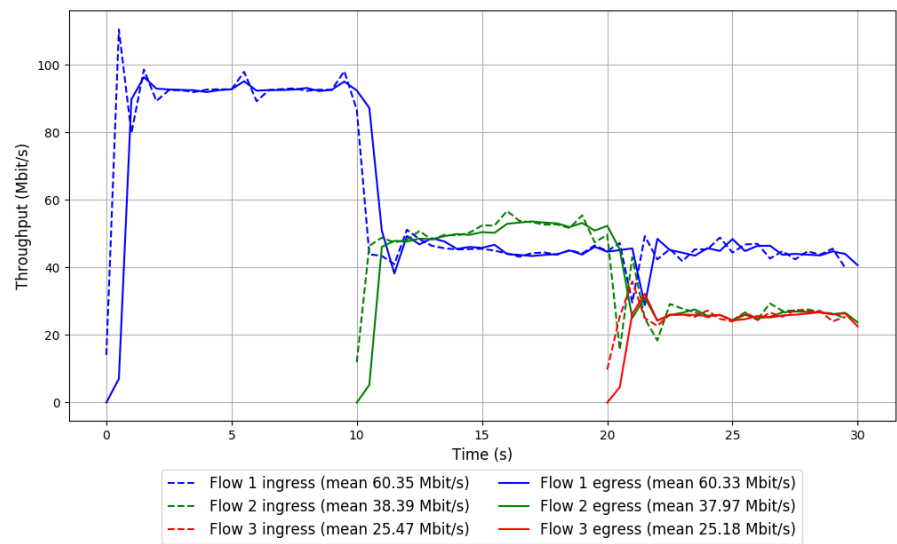


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-22 03:09:58
End at: 2019-01-22 03:10:28
Local clock offset: 0.236 ms
Remote clock offset: -5.291 ms

Below is generated by plot.py at 2019-01-22 05:07:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.90 Mbit/s
95th percentile per-packet one-way delay: 148.509 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 60.33 Mbit/s
95th percentile per-packet one-way delay: 111.486 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 37.97 Mbit/s
95th percentile per-packet one-way delay: 180.156 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 25.18 Mbit/s
95th percentile per-packet one-way delay: 192.706 ms
Loss rate: 1.91%

Run 2: Report of FillP-Sheep — Data Link

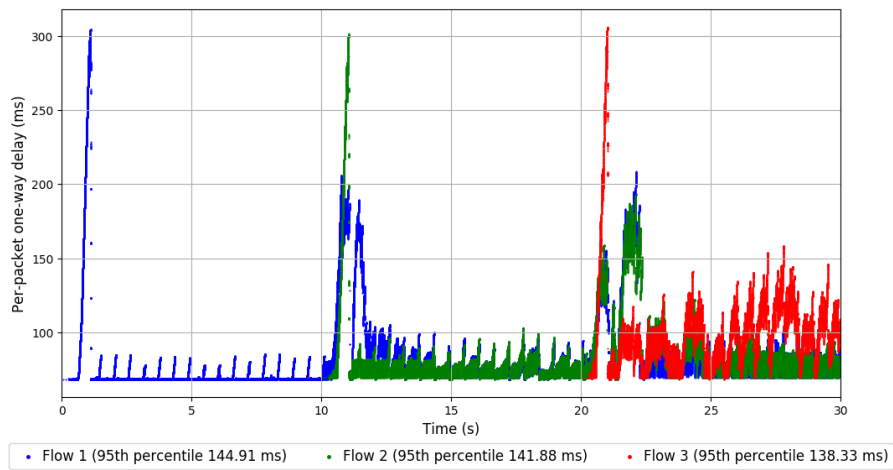
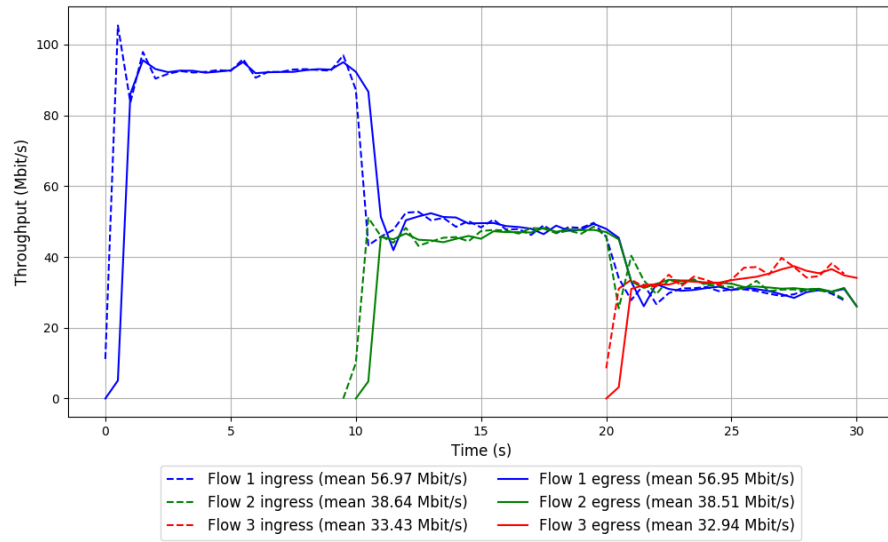


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-22 03:39:23
End at: 2019-01-22 03:39:53
Local clock offset: -0.554 ms
Remote clock offset: -3.928 ms

Below is generated by plot.py at 2019-01-22 05:07:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.45 Mbit/s
95th percentile per-packet one-way delay: 142.182 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 56.95 Mbit/s
95th percentile per-packet one-way delay: 144.910 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 141.883 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 32.94 Mbit/s
95th percentile per-packet one-way delay: 138.332 ms
Loss rate: 2.21%

Run 3: Report of FillP-Sheep — Data Link

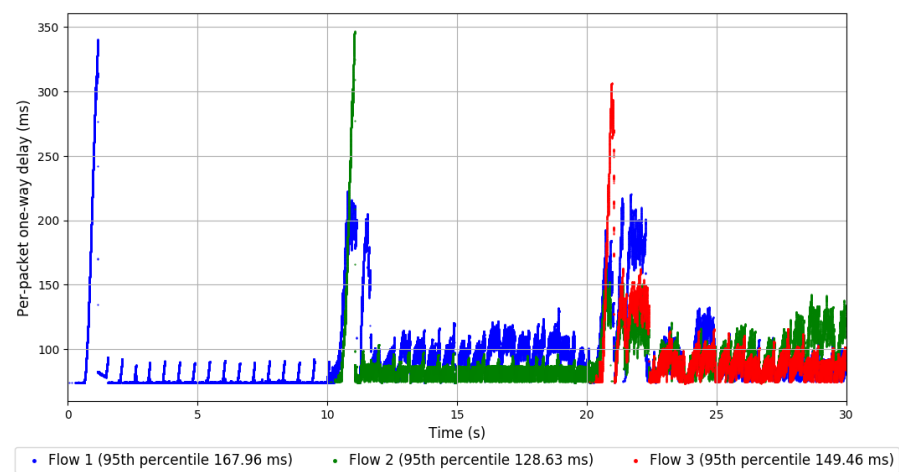
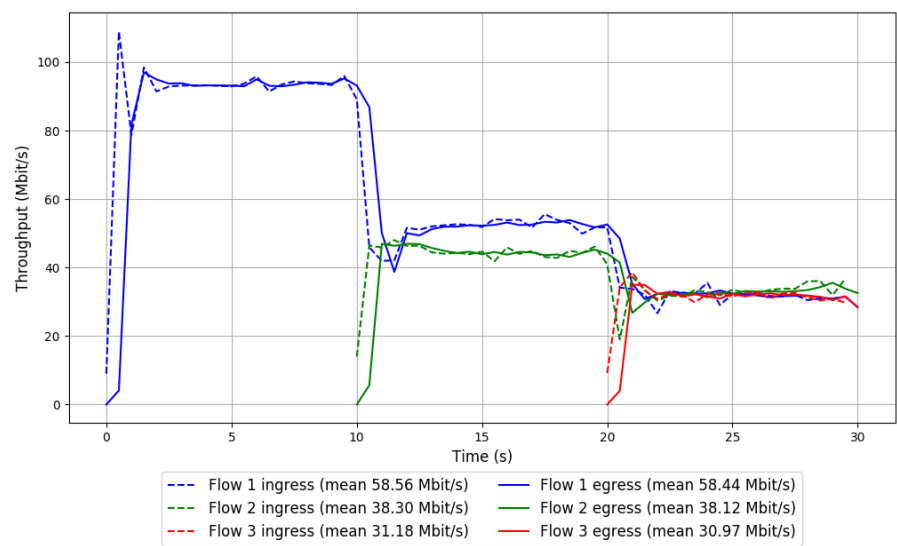


Run 4: Statistics of FillP-Sheep

Start at: 2019-01-22 04:11:19
End at: 2019-01-22 04:11:49
Local clock offset: 1.65 ms
Remote clock offset: -5.501 ms

Below is generated by plot.py at 2019-01-22 05:07:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.03 Mbit/s
95th percentile per-packet one-way delay: 149.089 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 58.44 Mbit/s
95th percentile per-packet one-way delay: 167.964 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 38.12 Mbit/s
95th percentile per-packet one-way delay: 128.633 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 30.97 Mbit/s
95th percentile per-packet one-way delay: 149.464 ms
Loss rate: 1.27%

Run 4: Report of FillP-Sheep — Data Link

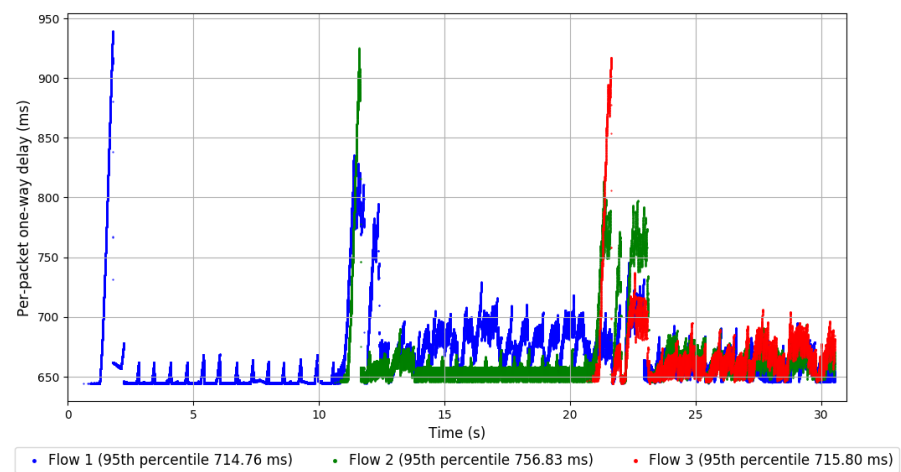
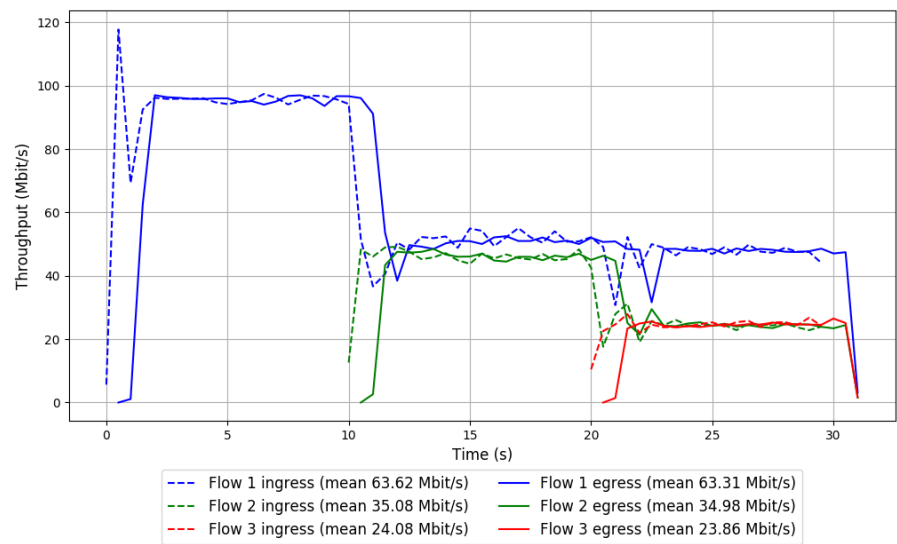


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-22 04:43:49
End at: 2019-01-22 04:44:19
Local clock offset: -0.435 ms
Remote clock offset: -576.483 ms

Below is generated by plot.py at 2019-01-22 05:07:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.46 Mbit/s
95th percentile per-packet one-way delay: 726.518 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 63.31 Mbit/s
95th percentile per-packet one-way delay: 714.762 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 34.98 Mbit/s
95th percentile per-packet one-way delay: 756.826 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 715.803 ms
Loss rate: 1.67%

Run 5: Report of FillP-Sheep — Data Link

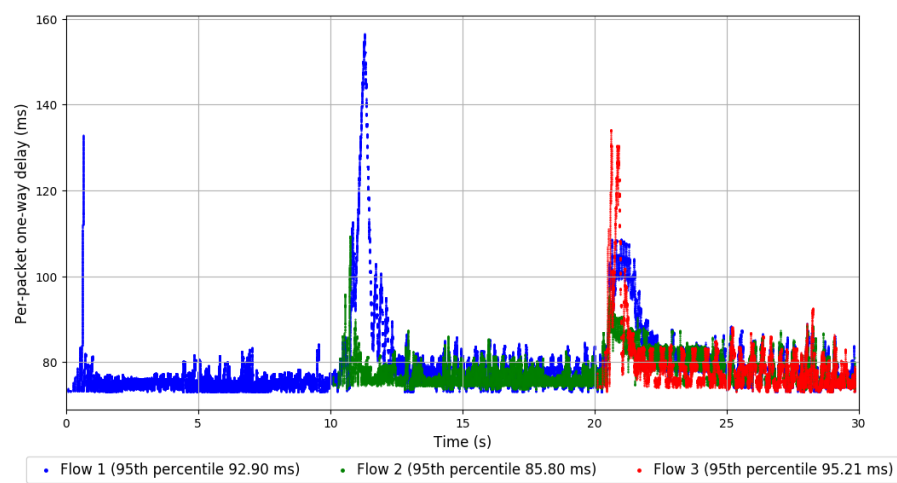
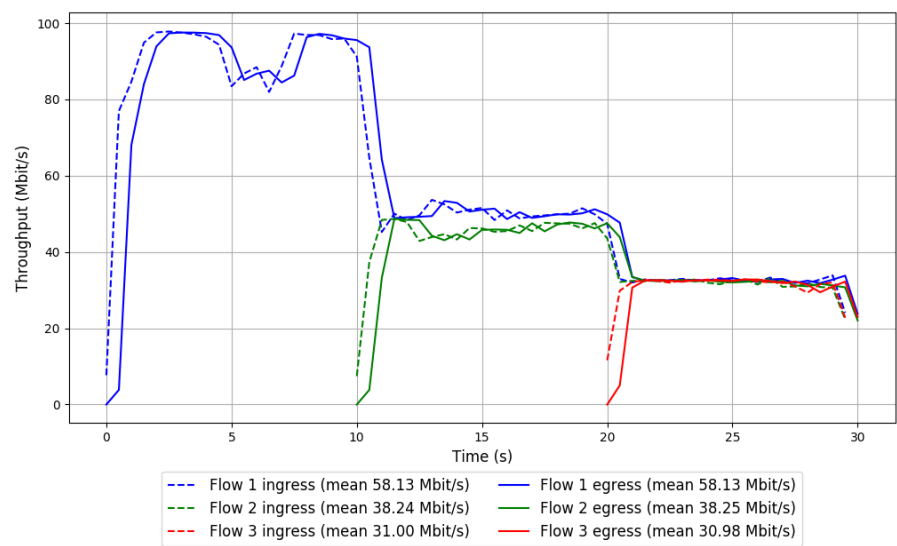


Run 1: Statistics of Indigo

Start at: 2019-01-22 02:48:13
End at: 2019-01-22 02:48:43
Local clock offset: 1.116 ms
Remote clock offset: -7.141 ms

Below is generated by plot.py at 2019-01-22 05:07:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.66 Mbit/s
95th percentile per-packet one-way delay: 88.628 ms
Loss rate: 0.34%
-- Flow 1:
Average throughput: 58.13 Mbit/s
95th percentile per-packet one-way delay: 92.898 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 38.25 Mbit/s
95th percentile per-packet one-way delay: 85.804 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 30.98 Mbit/s
95th percentile per-packet one-way delay: 95.211 ms
Loss rate: 0.85%

Run 1: Report of Indigo — Data Link

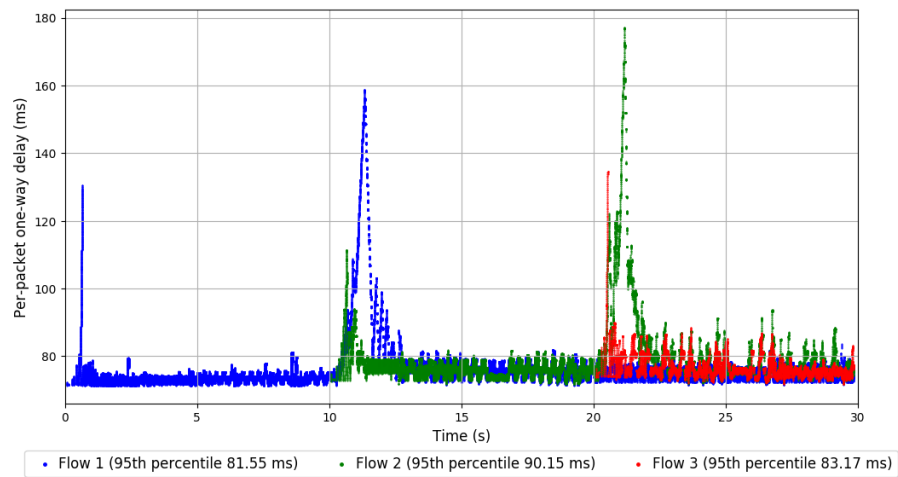
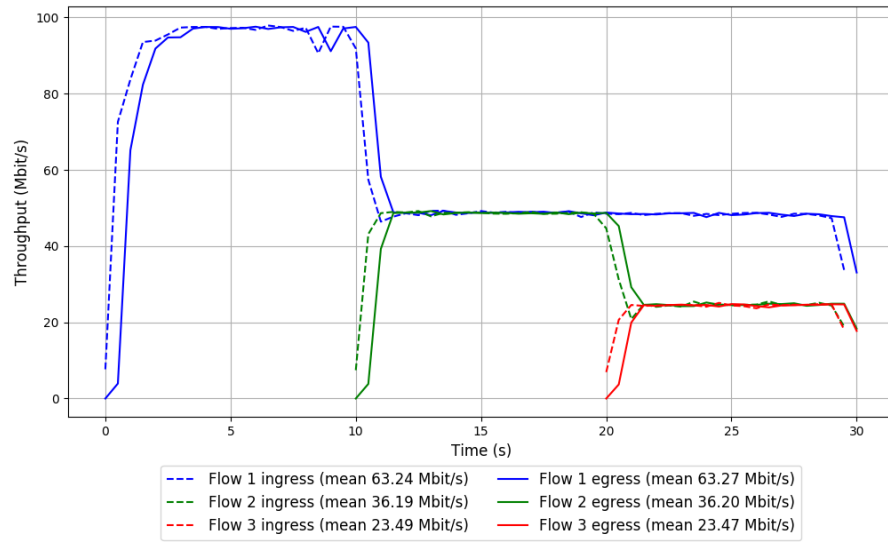


Run 2: Statistics of Indigo

Start at: 2019-01-22 03:17:56
End at: 2019-01-22 03:18:26
Local clock offset: 0.369 ms
Remote clock offset: -6.757 ms

Below is generated by plot.py at 2019-01-22 05:07:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.99 Mbit/s
95th percentile per-packet one-way delay: 84.943 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 63.27 Mbit/s
95th percentile per-packet one-way delay: 81.550 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 36.20 Mbit/s
95th percentile per-packet one-way delay: 90.153 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 23.47 Mbit/s
95th percentile per-packet one-way delay: 83.173 ms
Loss rate: 0.90%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-22 03:47:55

End at: 2019-01-22 03:48:25

Local clock offset: -1.121 ms

Remote clock offset: -6.51 ms

Below is generated by plot.py at 2019-01-22 05:08:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.93 Mbit/s

95th percentile per-packet one-way delay: 82.984 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 57.71 Mbit/s

95th percentile per-packet one-way delay: 84.237 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 36.13 Mbit/s

95th percentile per-packet one-way delay: 80.121 ms

Loss rate: 0.36%

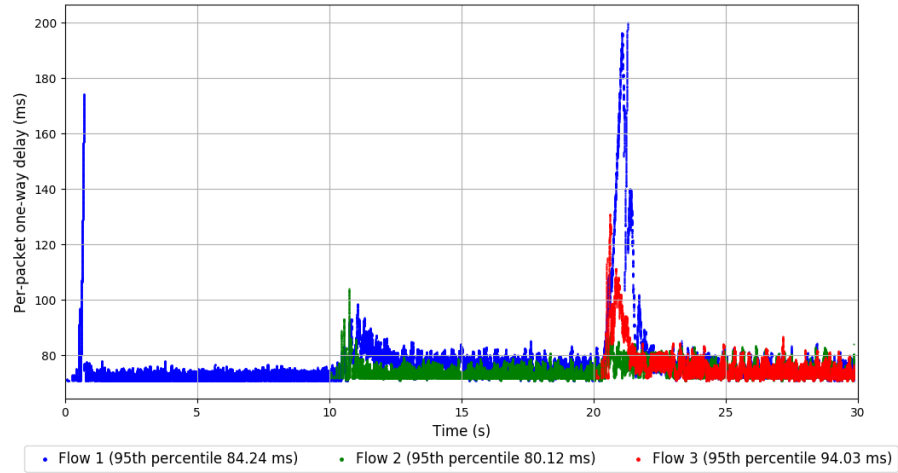
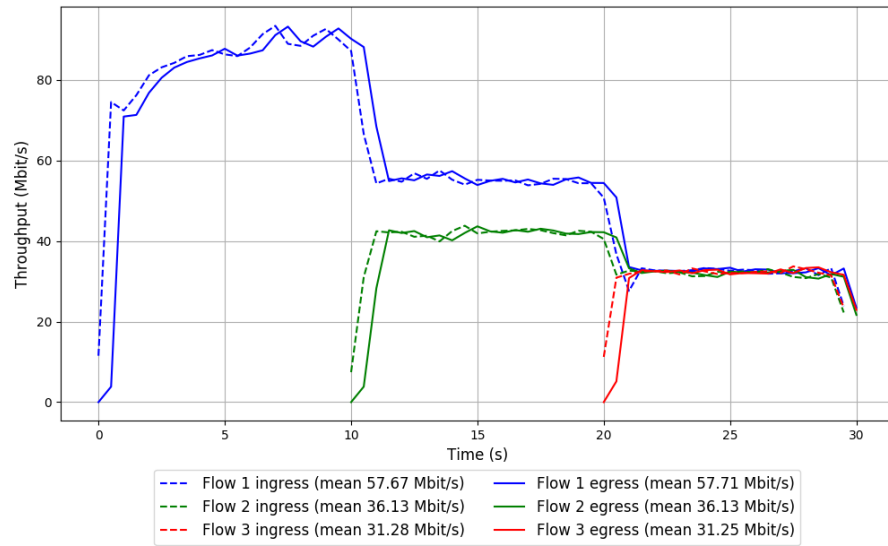
-- Flow 3:

Average throughput: 31.25 Mbit/s

95th percentile per-packet one-way delay: 94.031 ms

Loss rate: 0.89%

Run 3: Report of Indigo — Data Link

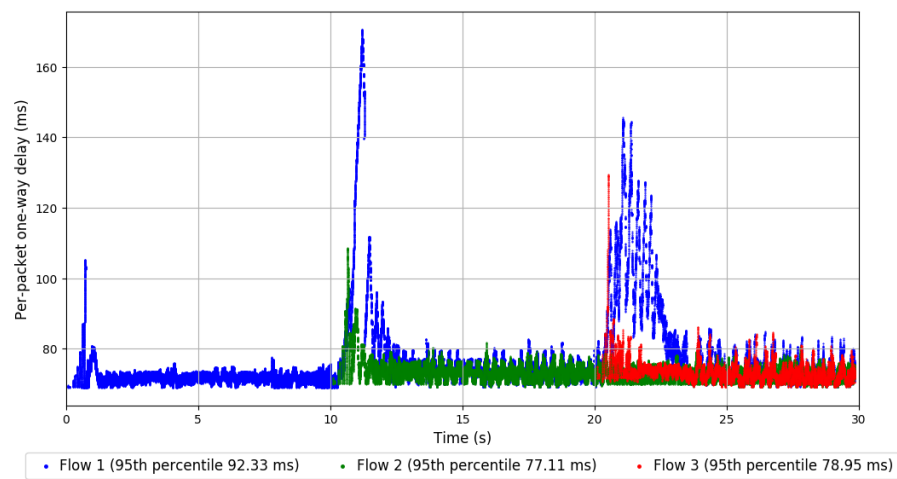
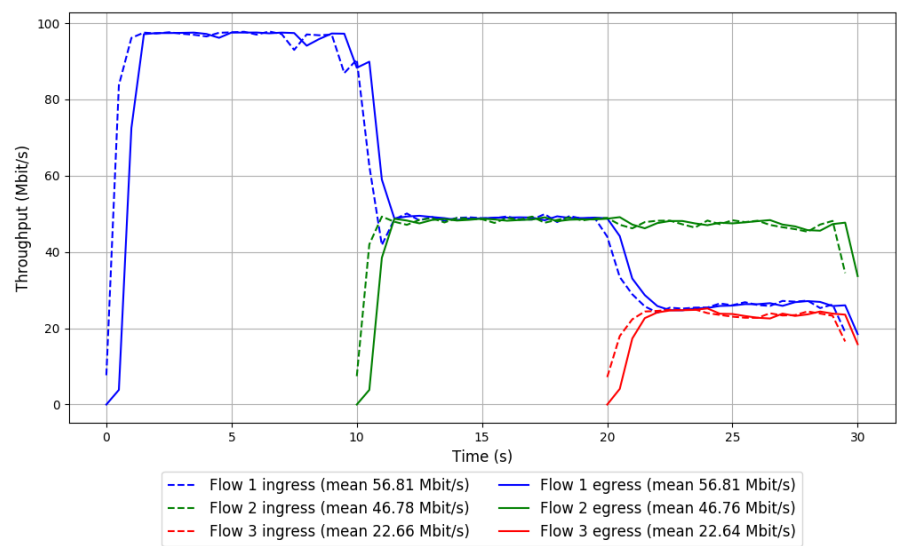


Run 4: Statistics of Indigo

Start at: 2019-01-22 04:20:03
End at: 2019-01-22 04:20:33
Local clock offset: -0.646 ms
Remote clock offset: -2.754 ms

Below is generated by plot.py at 2019-01-22 05:08:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.26 Mbit/s
95th percentile per-packet one-way delay: 83.564 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 56.81 Mbit/s
95th percentile per-packet one-way delay: 92.328 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 46.76 Mbit/s
95th percentile per-packet one-way delay: 77.115 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 22.64 Mbit/s
95th percentile per-packet one-way delay: 78.951 ms
Loss rate: 0.86%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-22 04:51:46

End at: 2019-01-22 04:52:16

Local clock offset: 0.011 ms

Remote clock offset: -4.1 ms

Below is generated by plot.py at 2019-01-22 05:08:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.49 Mbit/s

95th percentile per-packet one-way delay: 86.259 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 55.26 Mbit/s

95th percentile per-packet one-way delay: 88.972 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 40.28 Mbit/s

95th percentile per-packet one-way delay: 85.072 ms

Loss rate: 0.38%

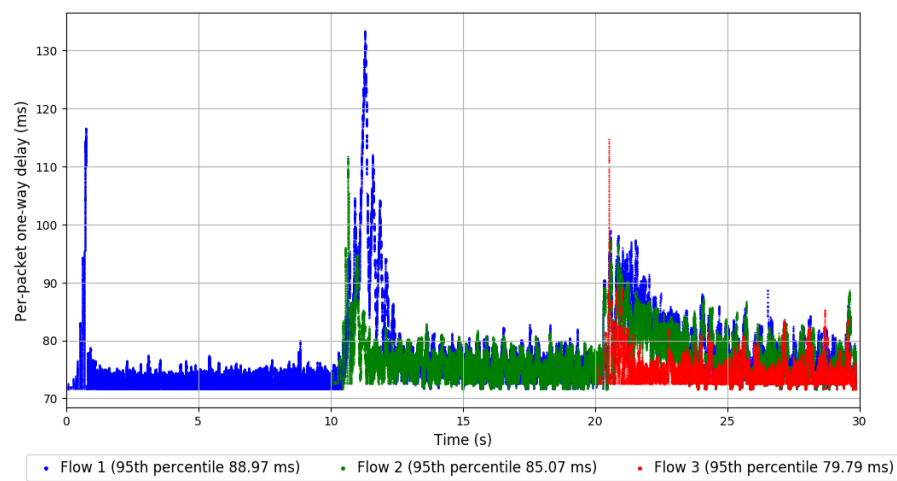
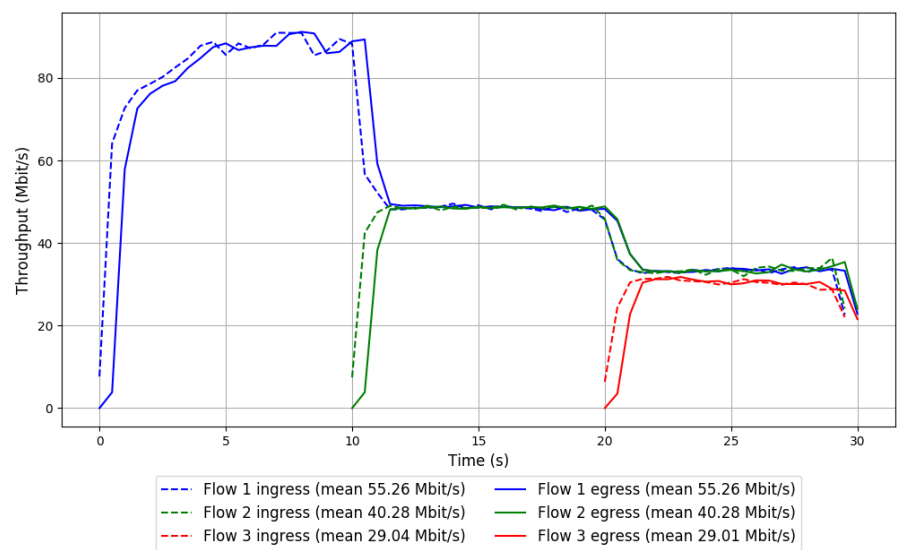
-- Flow 3:

Average throughput: 29.01 Mbit/s

95th percentile per-packet one-way delay: 79.792 ms

Loss rate: 0.86%

Run 5: Report of Indigo — Data Link

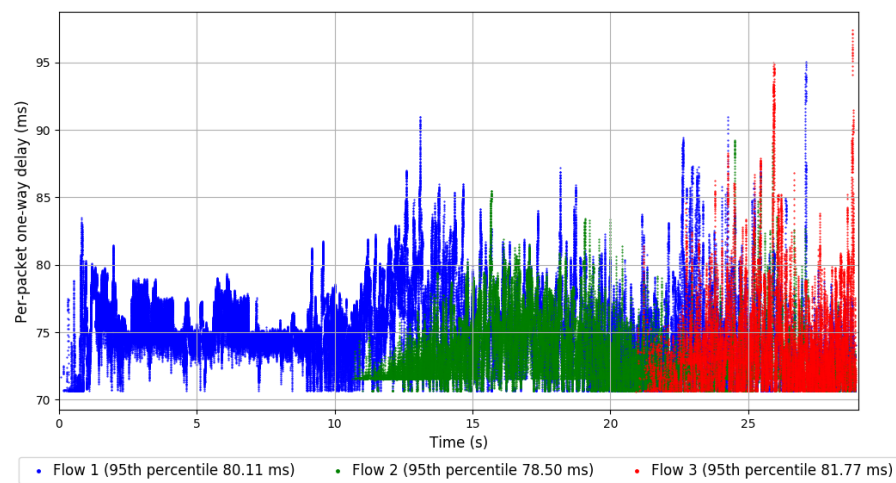
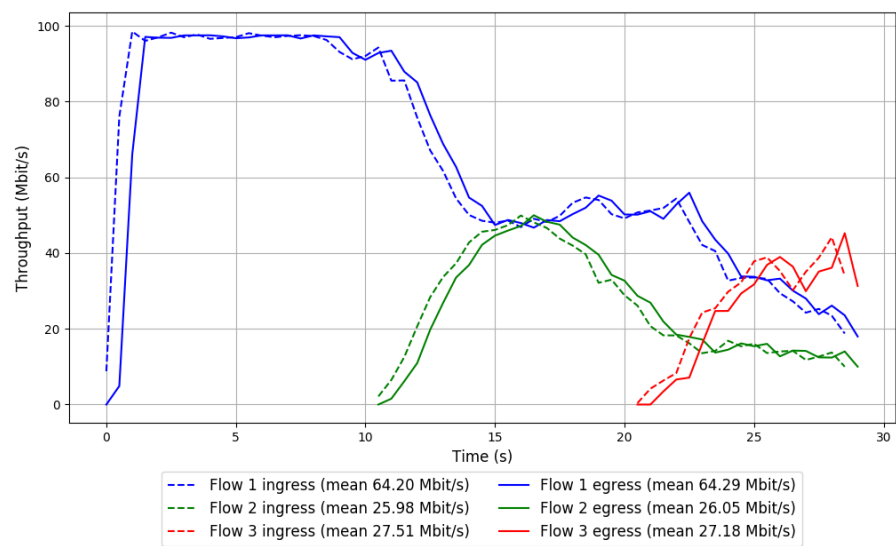


Run 1: Statistics of Indigo-MusesC3

Start at: 2019-01-22 02:44:09
End at: 2019-01-22 02:44:39
Local clock offset: -1.539 ms
Remote clock offset: -6.836 ms

Below is generated by plot.py at 2019-01-22 05:08:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.30 Mbit/s
95th percentile per-packet one-way delay: 79.942 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 80.113 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 78.499 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 27.18 Mbit/s
95th percentile per-packet one-way delay: 81.769 ms
Loss rate: 2.03%

Run 1: Report of Indigo-MusesC3 — Data Link

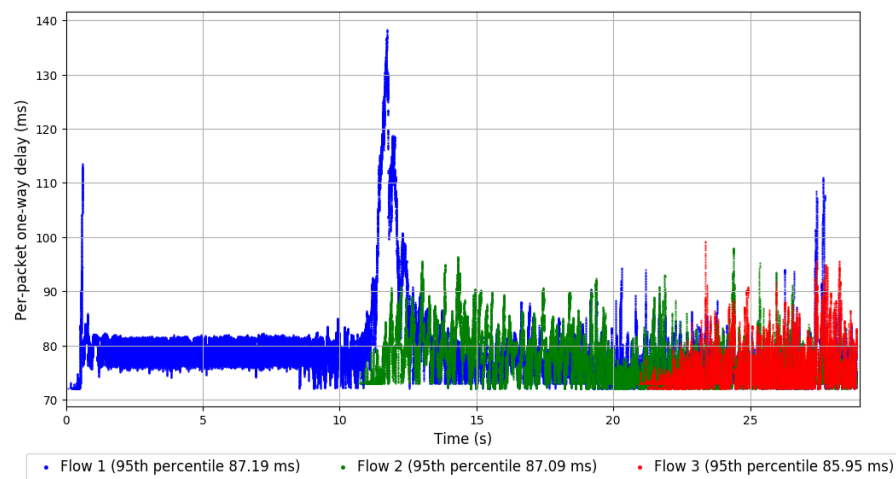
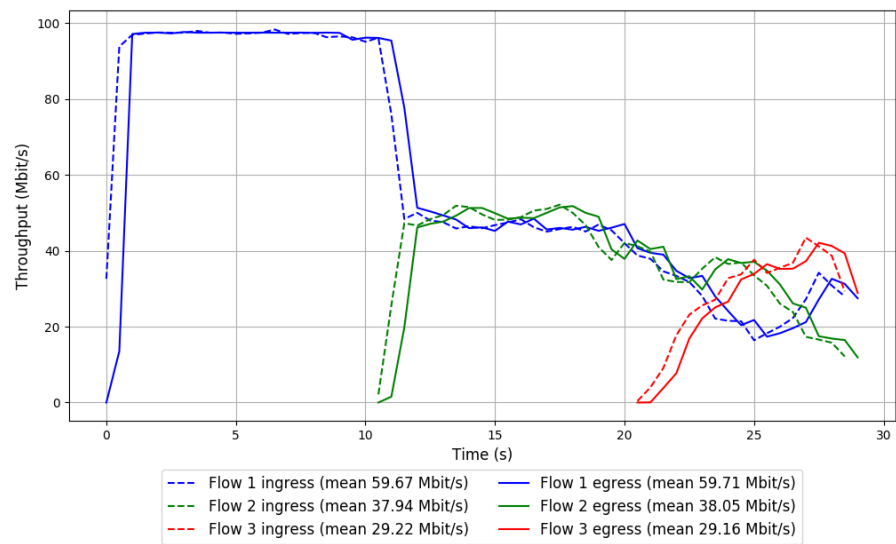


Run 2: Statistics of Indigo-MusesC3

Start at: 2019-01-22 03:13:58
End at: 2019-01-22 03:14:28
Local clock offset: 1.225 ms
Remote clock offset: -6.808 ms

Below is generated by plot.py at 2019-01-22 05:08:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.82 Mbit/s
95th percentile per-packet one-way delay: 86.949 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 59.71 Mbit/s
95th percentile per-packet one-way delay: 87.190 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 38.05 Mbit/s
95th percentile per-packet one-way delay: 87.094 ms
Loss rate: 0.16%
-- Flow 3:
Average throughput: 29.16 Mbit/s
95th percentile per-packet one-way delay: 85.951 ms
Loss rate: 1.28%

Run 2: Report of Indigo-MusesC3 — Data Link

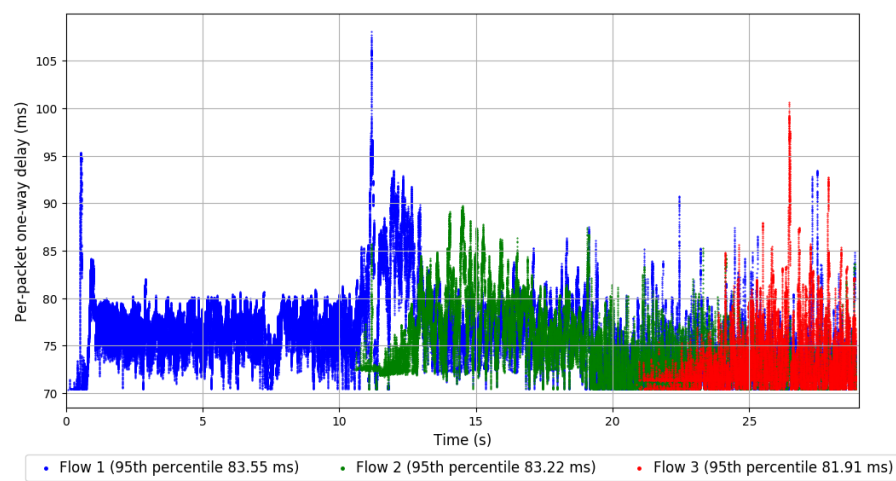
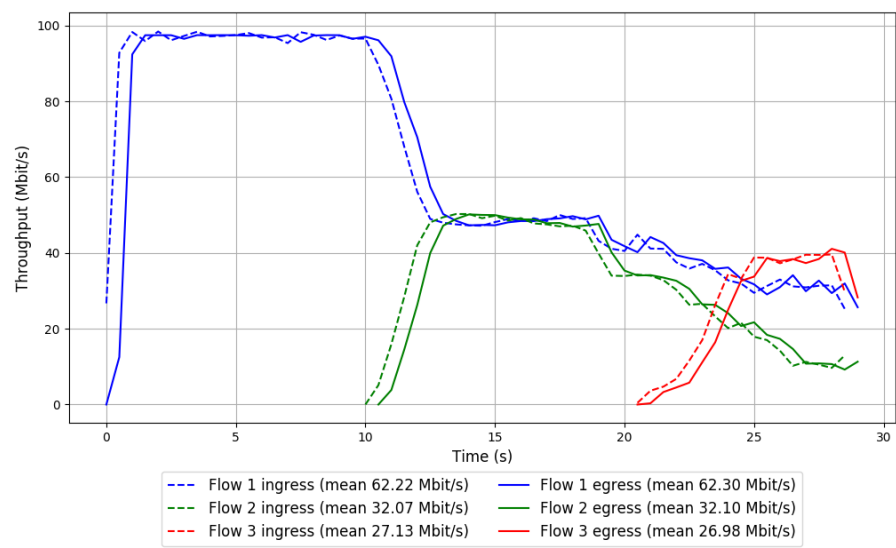


Run 3: Statistics of Indigo-MusesC3

Start at: 2019-01-22 03:43:40
End at: 2019-01-22 03:44:10
Local clock offset: -0.054 ms
Remote clock offset: -5.134 ms

Below is generated by plot.py at 2019-01-22 05:08:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 83.311 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 62.30 Mbit/s
95th percentile per-packet one-way delay: 83.552 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 32.10 Mbit/s
95th percentile per-packet one-way delay: 83.220 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 26.98 Mbit/s
95th percentile per-packet one-way delay: 81.913 ms
Loss rate: 1.49%

Run 3: Report of Indigo-MusesC3 — Data Link

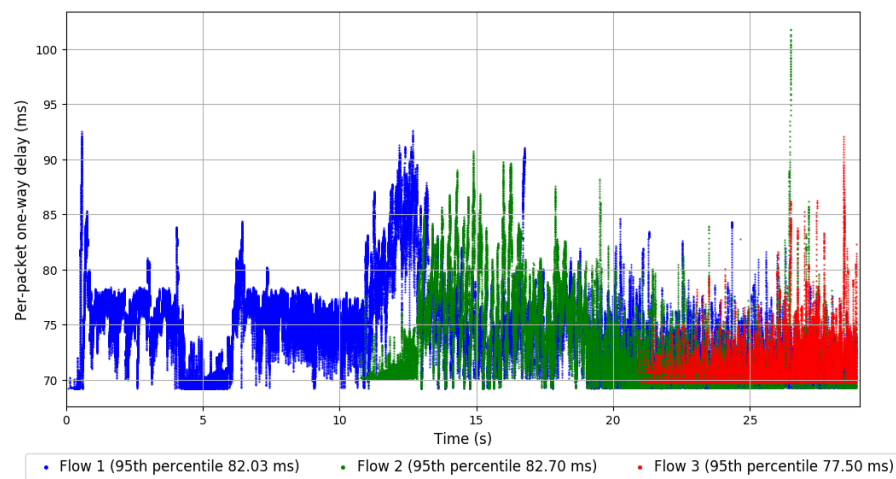
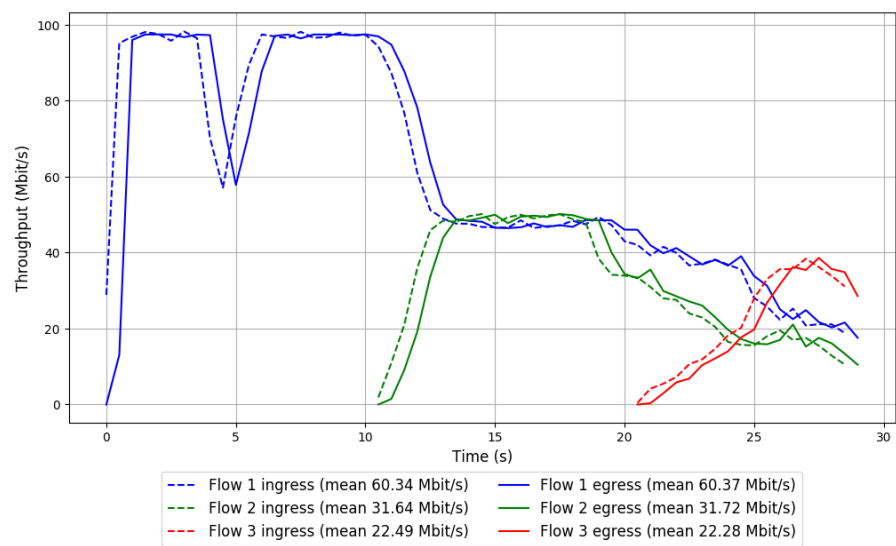


Run 4: Statistics of Indigo-MusesC3

Start at: 2019-01-22 04:15:25
End at: 2019-01-22 04:15:55
Local clock offset: -1.892 ms
Remote clock offset: -4.694 ms

Below is generated by plot.py at 2019-01-22 05:08:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 82.122 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 60.37 Mbit/s
95th percentile per-packet one-way delay: 82.035 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 31.72 Mbit/s
95th percentile per-packet one-way delay: 82.698 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 22.28 Mbit/s
95th percentile per-packet one-way delay: 77.495 ms
Loss rate: 1.93%

Run 4: Report of Indigo-MusesC3 — Data Link

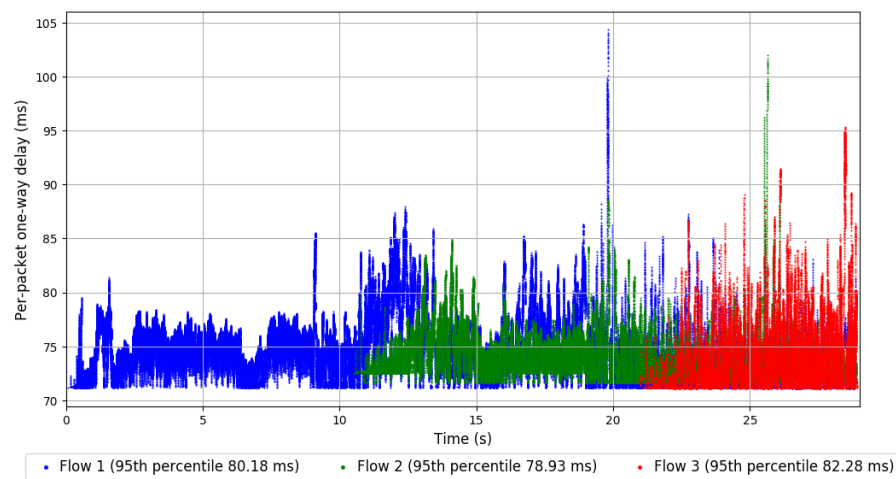
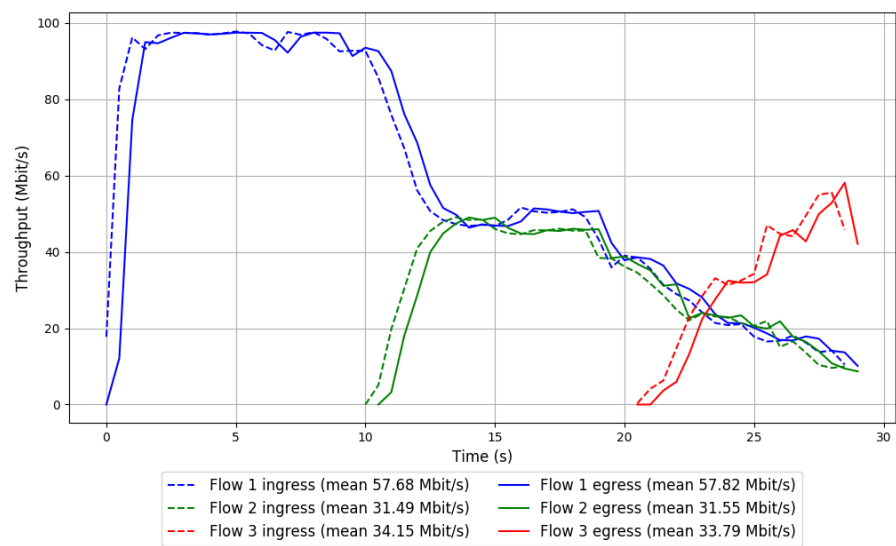


Run 5: Statistics of Indigo-MusesC3

Start at: 2019-01-22 04:47:39
End at: 2019-01-22 04:48:09
Local clock offset: -0.566 ms
Remote clock offset: -3.668 ms

Below is generated by plot.py at 2019-01-22 05:08:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 87.28 Mbit/s
95th percentile per-packet one-way delay: 80.189 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 57.82 Mbit/s
95th percentile per-packet one-way delay: 80.179 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 78.934 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 82.281 ms
Loss rate: 1.97%

Run 5: Report of Indigo-MusesC3 — Data Link

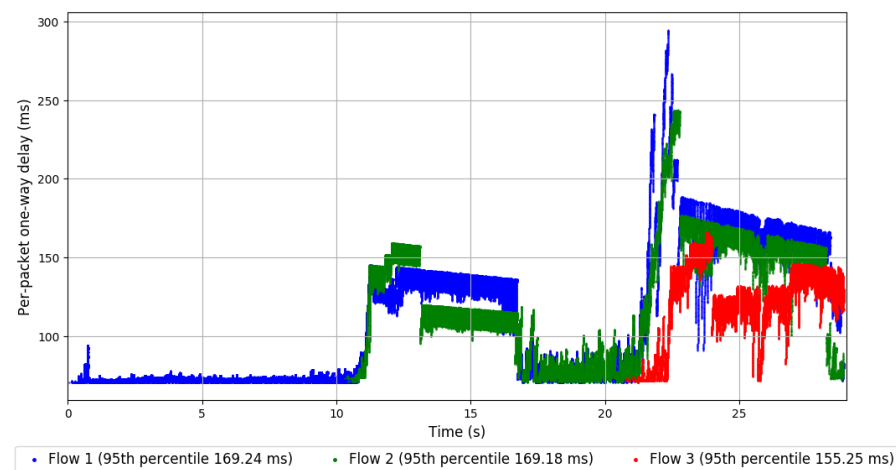
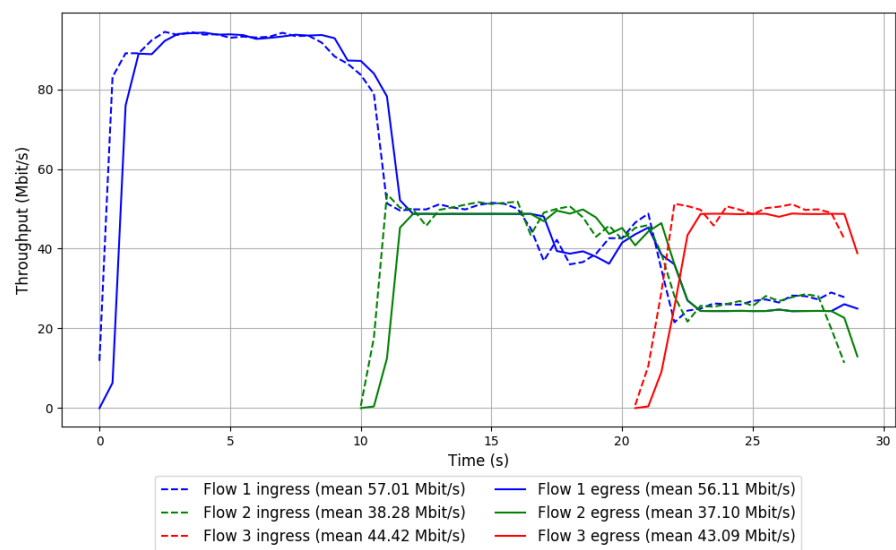


Run 1: Statistics of Indigo-MusesC5

Start at: 2019-01-22 02:32:35
End at: 2019-01-22 02:33:05
Local clock offset: -6.967 ms
Remote clock offset: -12.049 ms

Below is generated by plot.py at 2019-01-22 05:09:20
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.14 Mbit/s
95th percentile per-packet one-way delay: 167.555 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 56.11 Mbit/s
95th percentile per-packet one-way delay: 169.241 ms
Loss rate: 1.81%
-- Flow 2:
Average throughput: 37.10 Mbit/s
95th percentile per-packet one-way delay: 169.183 ms
Loss rate: 3.61%
-- Flow 3:
Average throughput: 43.09 Mbit/s
95th percentile per-packet one-way delay: 155.251 ms
Loss rate: 3.93%

Run 1: Report of Indigo-MusesC5 — Data Link

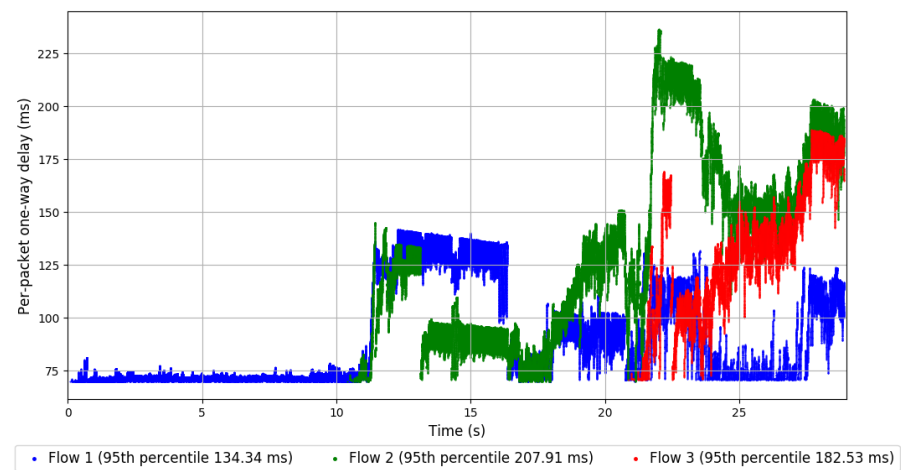
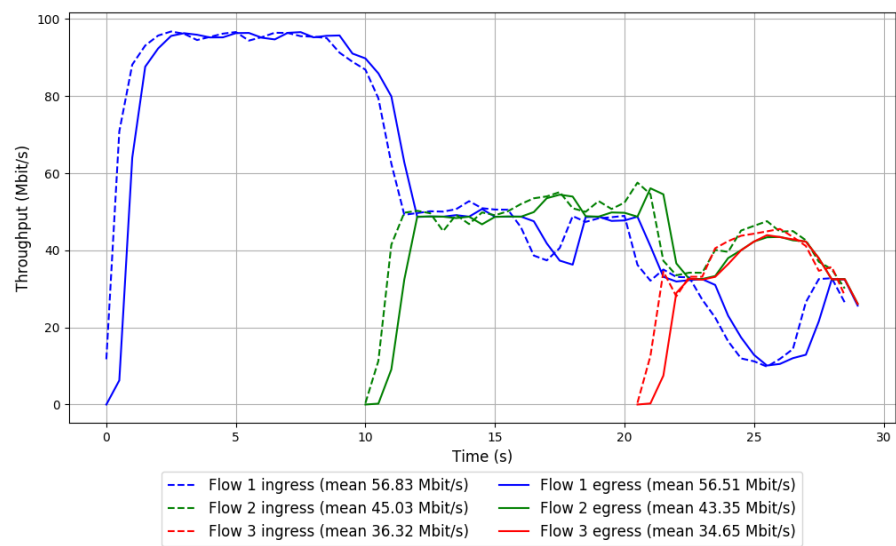


Run 2: Statistics of Indigo-MusesC5

Start at: 2019-01-22 03:01:23
End at: 2019-01-22 03:01:53
Local clock offset: -0.502 ms
Remote clock offset: -6.365 ms

Below is generated by plot.py at 2019-01-22 05:09:26
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.93 Mbit/s
95th percentile per-packet one-way delay: 178.444 ms
Loss rate: 2.25%
-- Flow 1:
Average throughput: 56.51 Mbit/s
95th percentile per-packet one-way delay: 134.338 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 43.35 Mbit/s
95th percentile per-packet one-way delay: 207.913 ms
Loss rate: 3.98%
-- Flow 3:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 182.531 ms
Loss rate: 5.39%

Run 2: Report of Indigo-MusesC5 — Data Link

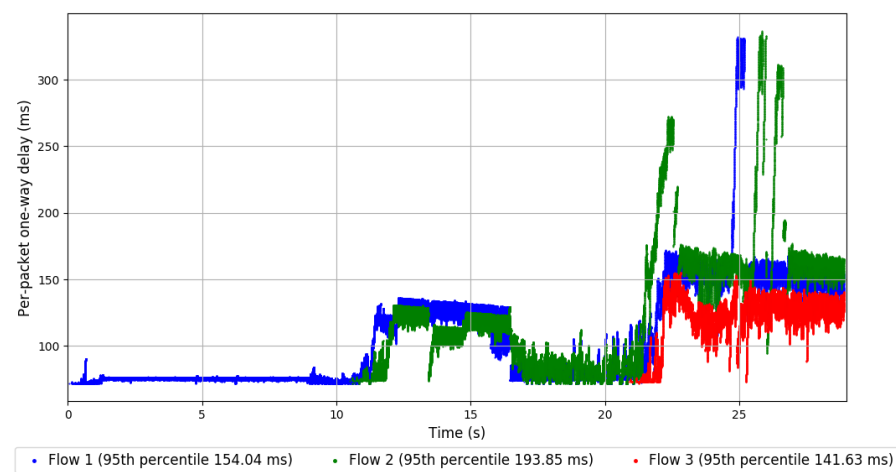
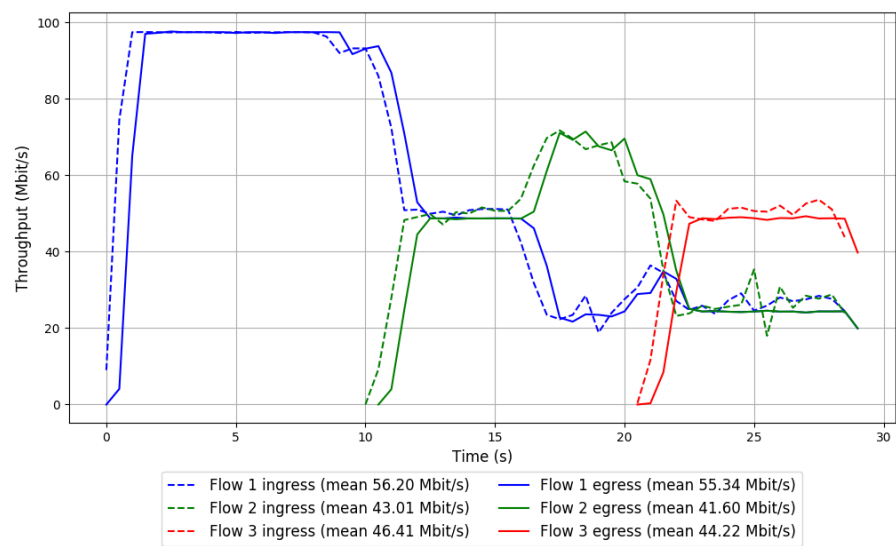


Run 3: Statistics of Indigo-MusesC5

Start at: 2019-01-22 03:30:38
End at: 2019-01-22 03:31:08
Local clock offset: 1.691 ms
Remote clock offset: -5.412 ms

Below is generated by plot.py at 2019-01-22 05:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.20 Mbit/s
95th percentile per-packet one-way delay: 161.270 ms
Loss rate: 2.81%
-- Flow 1:
Average throughput: 55.34 Mbit/s
95th percentile per-packet one-way delay: 154.045 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 41.60 Mbit/s
95th percentile per-packet one-way delay: 193.851 ms
Loss rate: 3.65%
-- Flow 3:
Average throughput: 44.22 Mbit/s
95th percentile per-packet one-way delay: 141.633 ms
Loss rate: 5.45%

Run 3: Report of Indigo-MusesC5 — Data Link

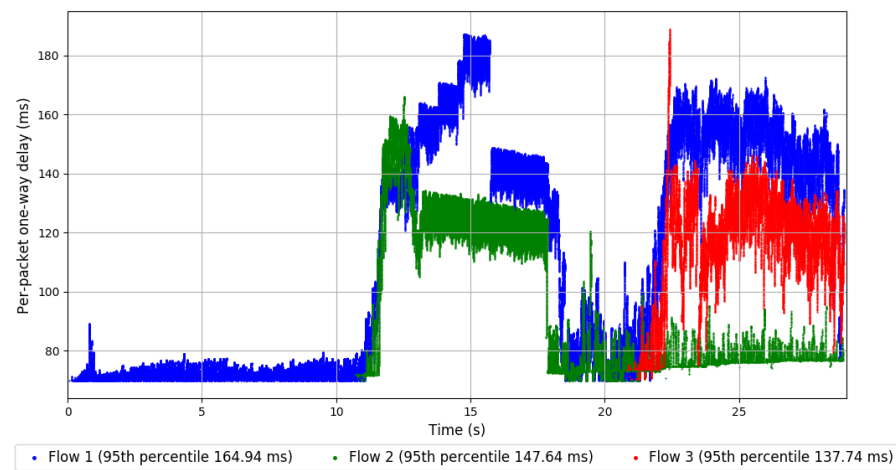
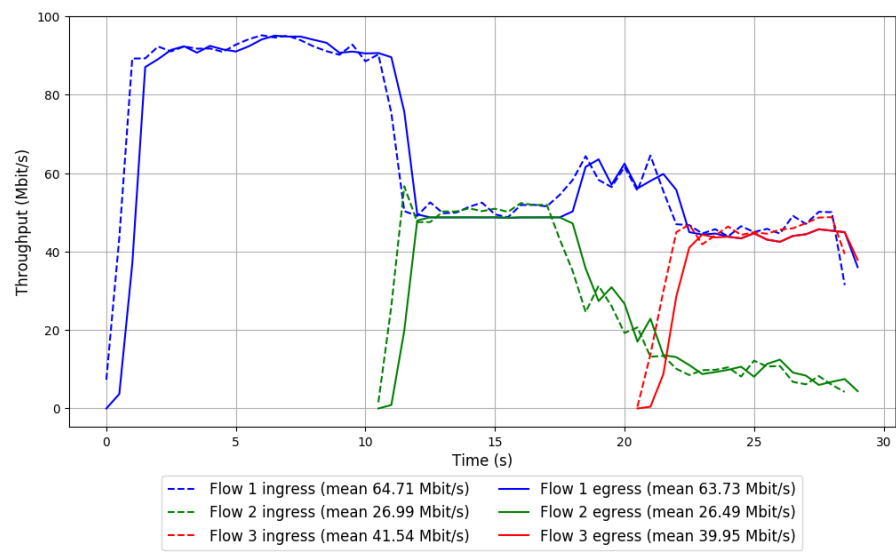


Run 4: Statistics of Indigo-MusesC5

Start at: 2019-01-22 04:02:22
End at: 2019-01-22 04:02:52
Local clock offset: -0.088 ms
Remote clock offset: -3.984 ms

Below is generated by plot.py at 2019-01-22 05:09:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.64 Mbit/s
95th percentile per-packet one-way delay: 161.500 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 63.73 Mbit/s
95th percentile per-packet one-way delay: 164.940 ms
Loss rate: 1.79%
-- Flow 2:
Average throughput: 26.49 Mbit/s
95th percentile per-packet one-way delay: 147.642 ms
Loss rate: 2.46%
-- Flow 3:
Average throughput: 39.95 Mbit/s
95th percentile per-packet one-way delay: 137.741 ms
Loss rate: 4.61%

Run 4: Report of Indigo-MusesC5 — Data Link

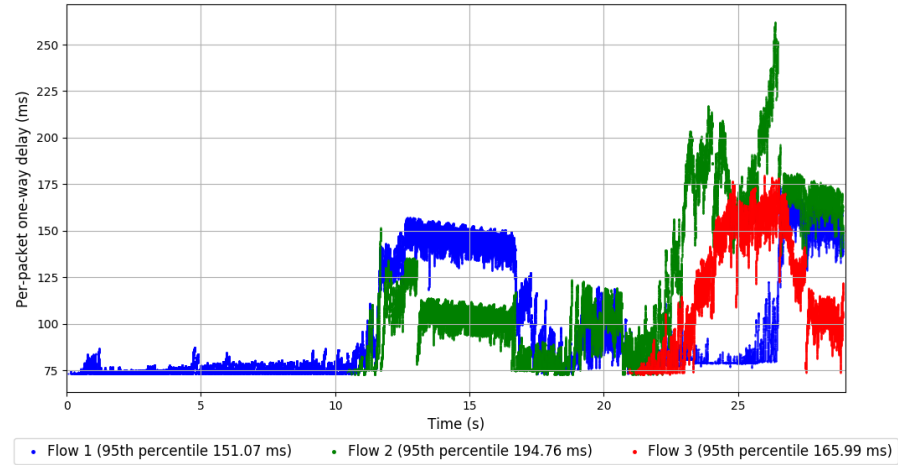
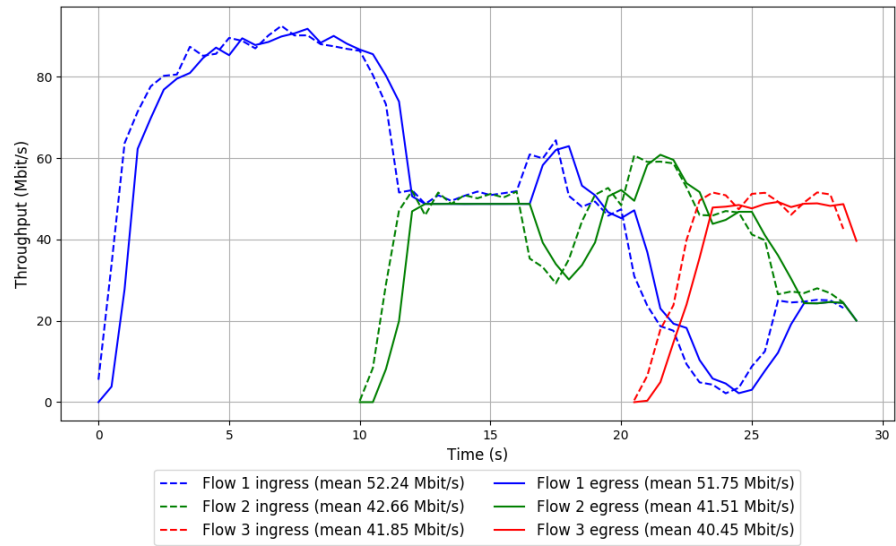


Run 5: Statistics of Indigo-MusesC5

Start at: 2019-01-22 04:34:19
End at: 2019-01-22 04:34:49
Local clock offset: 0.485 ms
Remote clock offset: -4.051 ms

Below is generated by plot.py at 2019-01-22 05:09:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.63 Mbit/s
95th percentile per-packet one-way delay: 170.129 ms
Loss rate: 2.18%
-- Flow 1:
Average throughput: 51.75 Mbit/s
95th percentile per-packet one-way delay: 151.069 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 41.51 Mbit/s
95th percentile per-packet one-way delay: 194.760 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 40.45 Mbit/s
95th percentile per-packet one-way delay: 165.986 ms
Loss rate: 4.22%

Run 5: Report of Indigo-MusesC5 — Data Link



Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-22 02:54:18

End at: 2019-01-22 02:54:48

Local clock offset: -2.121 ms

Remote clock offset: -7.65 ms

Below is generated by plot.py at 2019-01-22 05:09:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 60.69 Mbit/s

95th percentile per-packet one-way delay: 76.037 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 32.28 Mbit/s

95th percentile per-packet one-way delay: 73.861 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 42.87 Mbit/s

95th percentile per-packet one-way delay: 78.287 ms

Loss rate: 0.04%

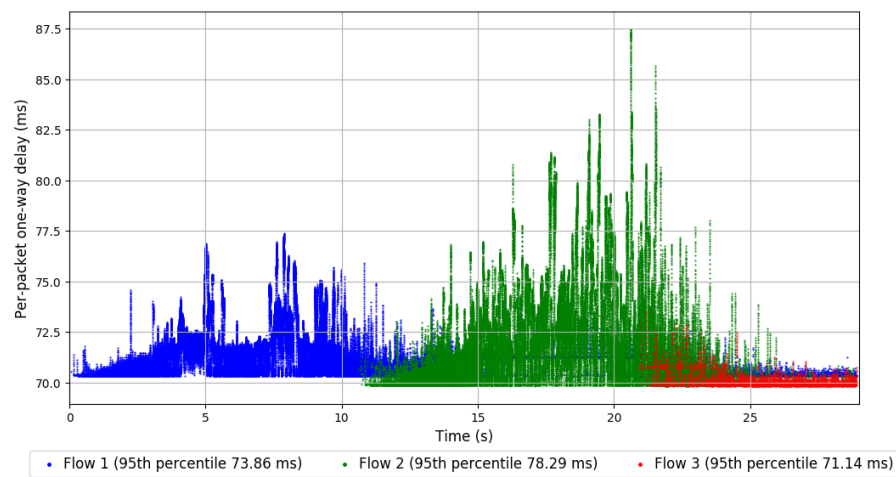
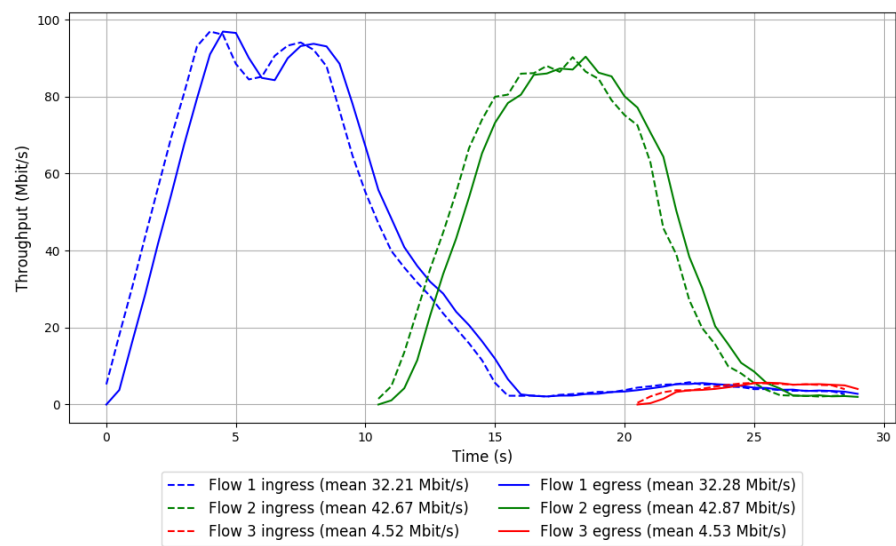
-- Flow 3:

Average throughput: 4.53 Mbit/s

95th percentile per-packet one-way delay: 71.135 ms

Loss rate: 0.89%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-22 03:24:01

End at: 2019-01-22 03:24:31

Local clock offset: 0.21 ms

Remote clock offset: -6.71 ms

Below is generated by plot.py at 2019-01-22 05:09:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 45.14 Mbit/s

95th percentile per-packet one-way delay: 75.319 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 37.12 Mbit/s

95th percentile per-packet one-way delay: 75.541 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 9.79 Mbit/s

95th percentile per-packet one-way delay: 73.001 ms

Loss rate: 0.10%

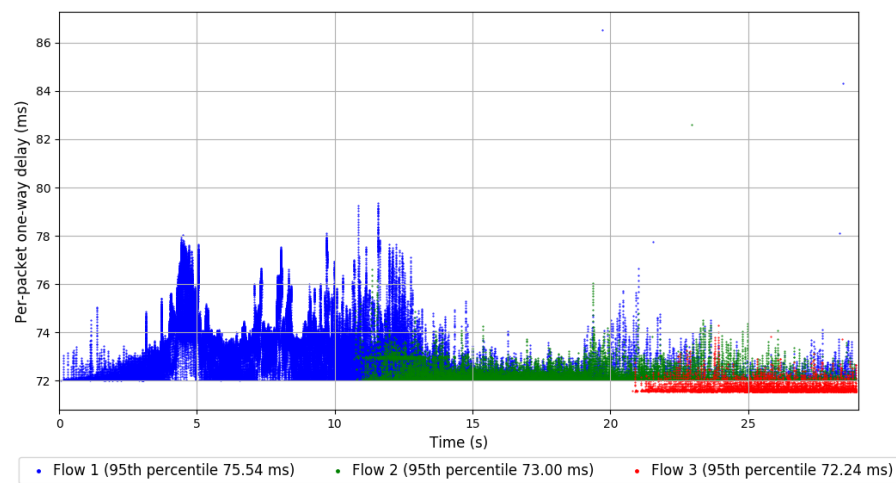
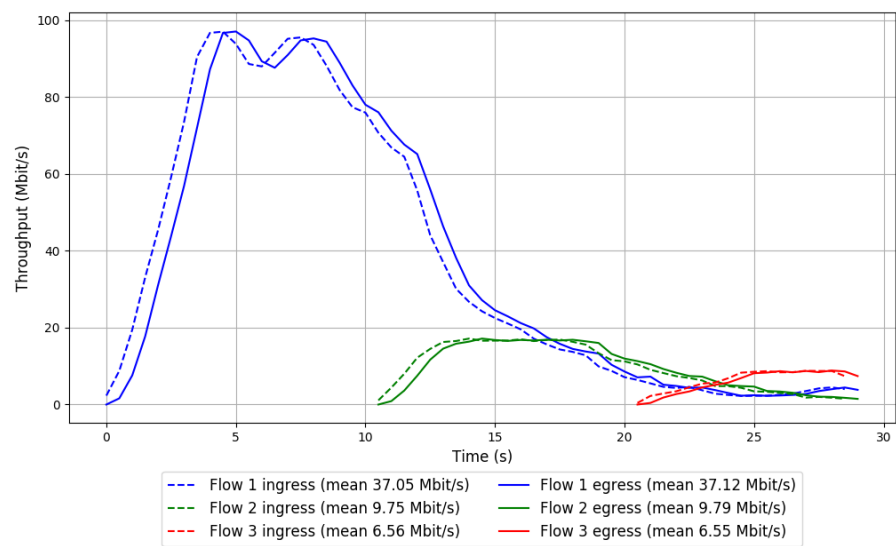
-- Flow 3:

Average throughput: 6.55 Mbit/s

95th percentile per-packet one-way delay: 72.238 ms

Loss rate: 1.24%

Run 2: Report of Indigo-MusesD — Data Link

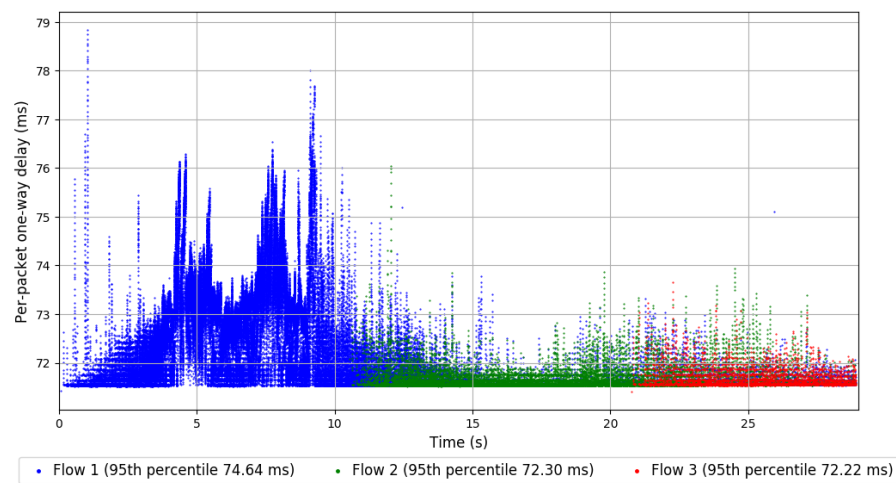
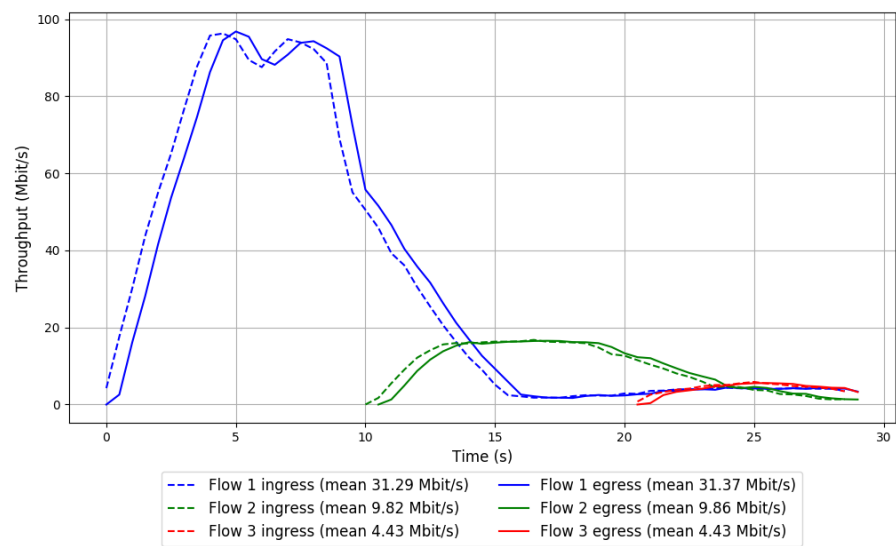


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-22 03:54:54
End at: 2019-01-22 03:55:24
Local clock offset: 1.769 ms
Remote clock offset: -3.948 ms

Below is generated by plot.py at 2019-01-22 05:09:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.89 Mbit/s
95th percentile per-packet one-way delay: 74.422 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 31.37 Mbit/s
95th percentile per-packet one-way delay: 74.636 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 9.86 Mbit/s
95th percentile per-packet one-way delay: 72.297 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 72.225 ms
Loss rate: 0.83%

Run 3: Report of Indigo-MusesD — Data Link

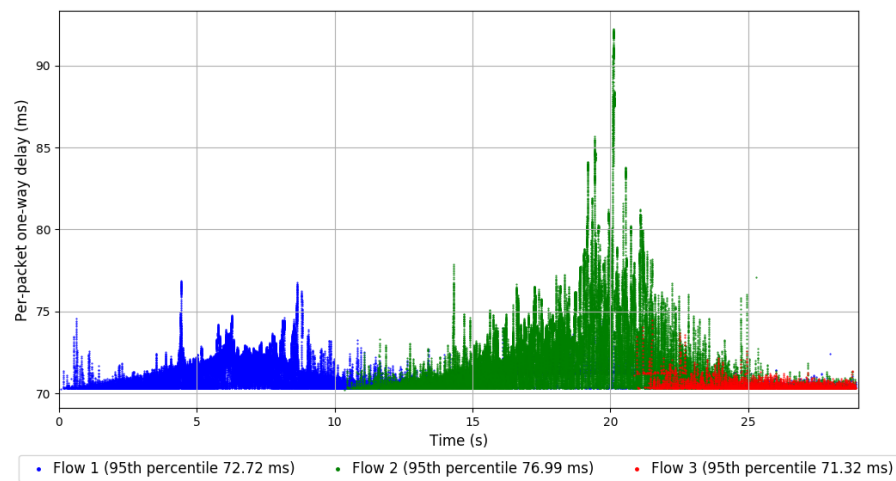
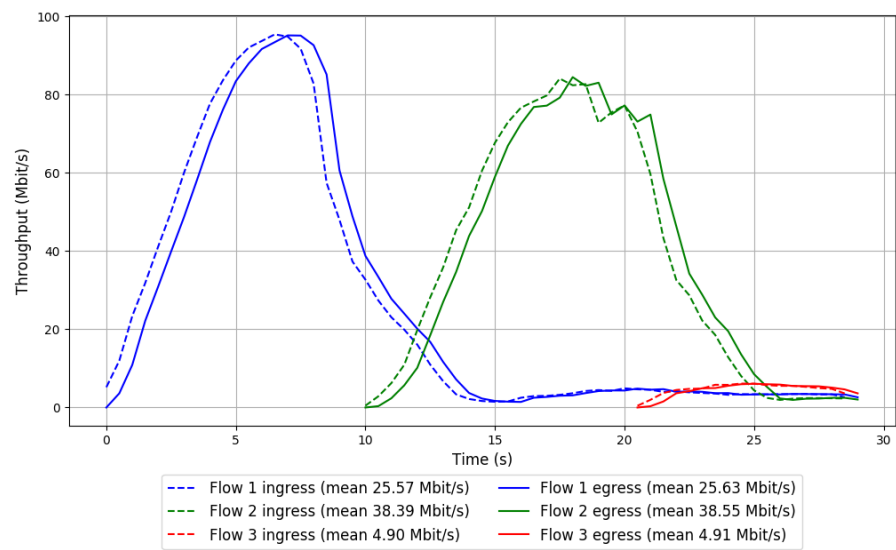


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-22 04:26:58
End at: 2019-01-22 04:27:28
Local clock offset: -1.301 ms
Remote clock offset: -3.456 ms

Below is generated by plot.py at 2019-01-22 05:09:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 51.76 Mbit/s
95th percentile per-packet one-way delay: 75.361 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 25.63 Mbit/s
95th percentile per-packet one-way delay: 72.721 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 38.55 Mbit/s
95th percentile per-packet one-way delay: 76.987 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 4.91 Mbit/s
95th percentile per-packet one-way delay: 71.320 ms
Loss rate: 0.91%

Run 4: Report of Indigo-MusesD — Data Link

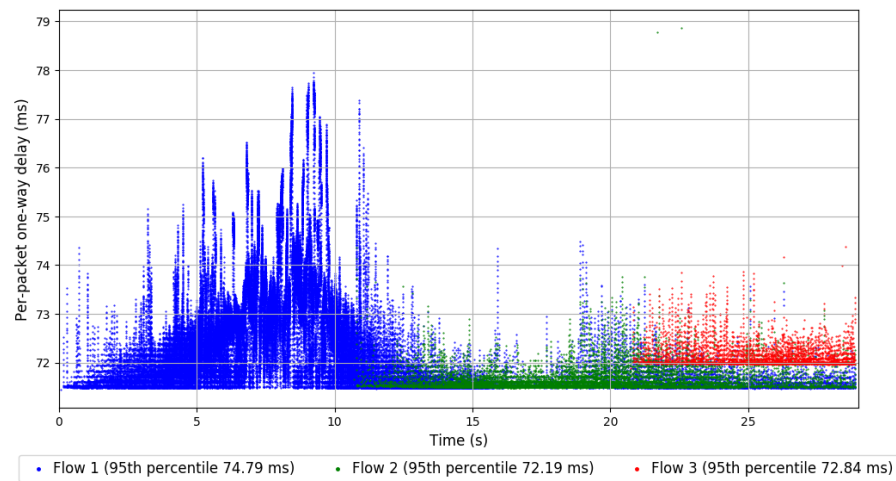
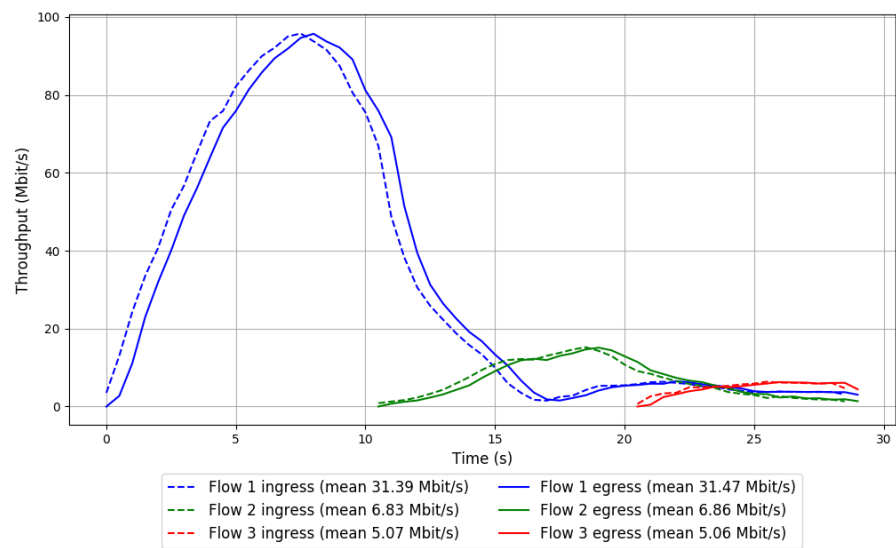


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-22 04:58:49
End at: 2019-01-22 04:59:19
Local clock offset: -0.872 ms
Remote clock offset: -5.355 ms

Below is generated by plot.py at 2019-01-22 05:09:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 37.22 Mbit/s
95th percentile per-packet one-way delay: 74.609 ms
Loss rate: 0.09%
-- Flow 1:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 74.793 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 6.86 Mbit/s
95th percentile per-packet one-way delay: 72.188 ms
Loss rate: 0.07%
-- Flow 3:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 72.839 ms
Loss rate: 1.26%

Run 5: Report of Indigo-MusesD — Data Link

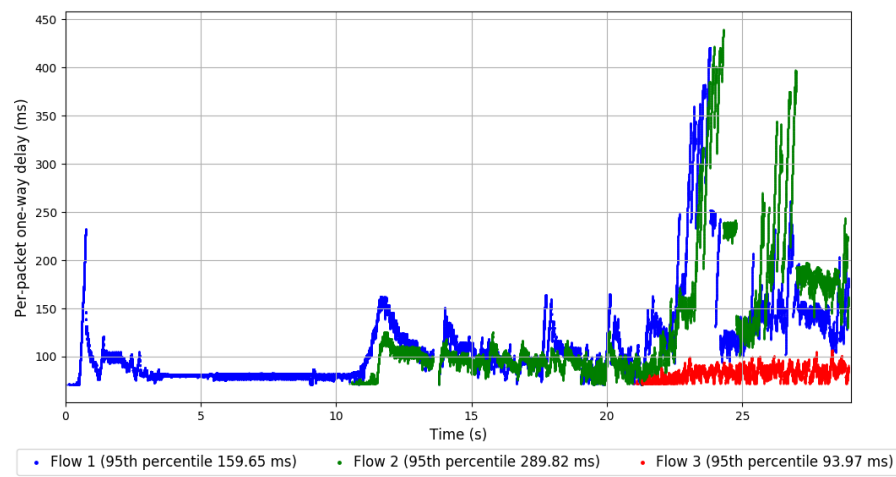
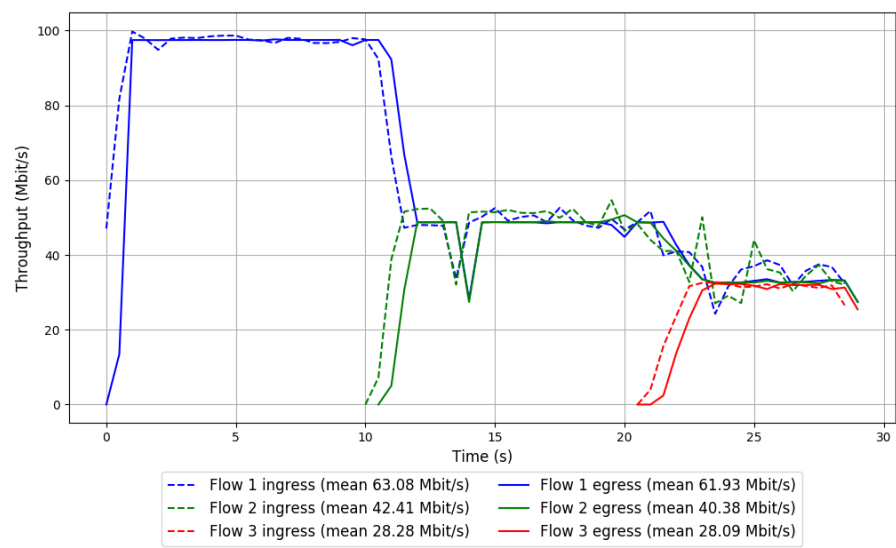


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-22 02:36:16
End at: 2019-01-22 02:36:46
Local clock offset: 0.536 ms
Remote clock offset: -4.753 ms

Below is generated by plot.py at 2019-01-22 05:10:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.41 Mbit/s
95th percentile per-packet one-way delay: 198.405 ms
Loss rate: 2.88%
-- Flow 1:
Average throughput: 61.93 Mbit/s
95th percentile per-packet one-way delay: 159.654 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 40.38 Mbit/s
95th percentile per-packet one-way delay: 289.823 ms
Loss rate: 5.12%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 93.971 ms
Loss rate: 1.59%

Run 1: Report of Indigo-MusesT — Data Link

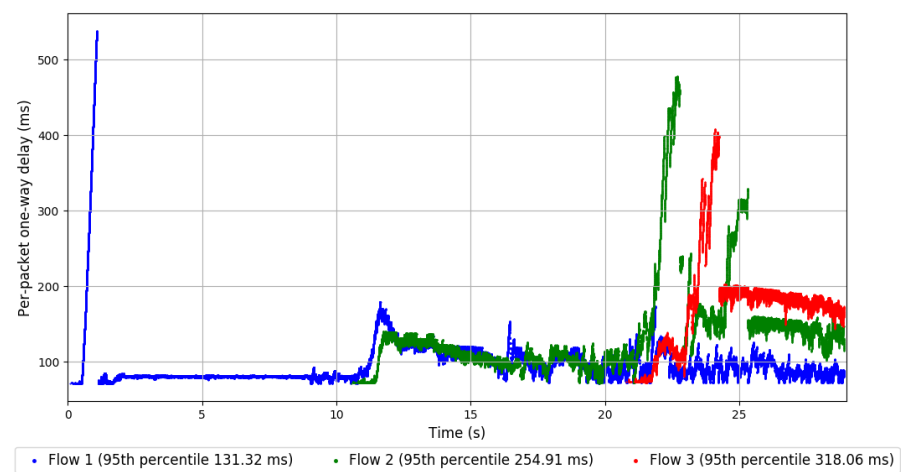
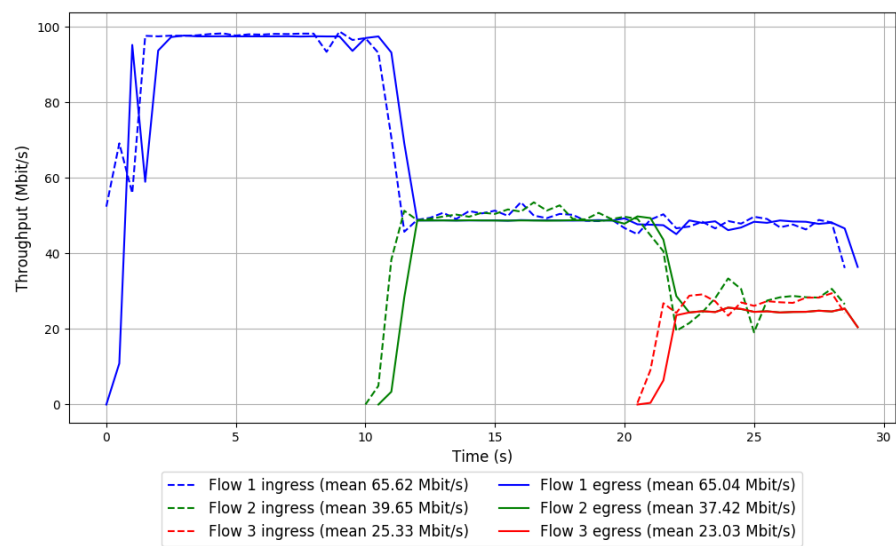


Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-22 03:05:39
End at: 2019-01-22 03:06:09
Local clock offset: -0.77 ms
Remote clock offset: -7.586 ms

Below is generated by plot.py at 2019-01-22 05:10:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.33 Mbit/s
95th percentile per-packet one-way delay: 190.768 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 65.04 Mbit/s
95th percentile per-packet one-way delay: 131.318 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 254.910 ms
Loss rate: 6.03%
-- Flow 3:
Average throughput: 23.03 Mbit/s
95th percentile per-packet one-way delay: 318.058 ms
Loss rate: 9.96%

Run 2: Report of Indigo-MusesT — Data Link

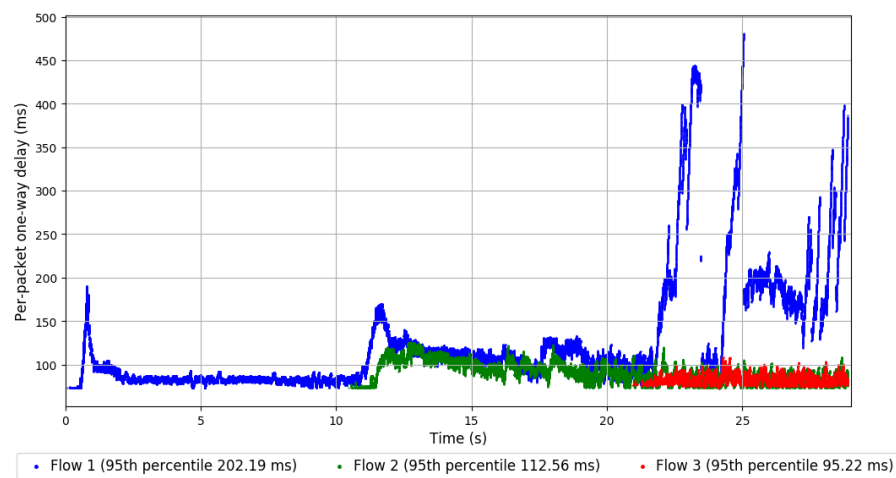
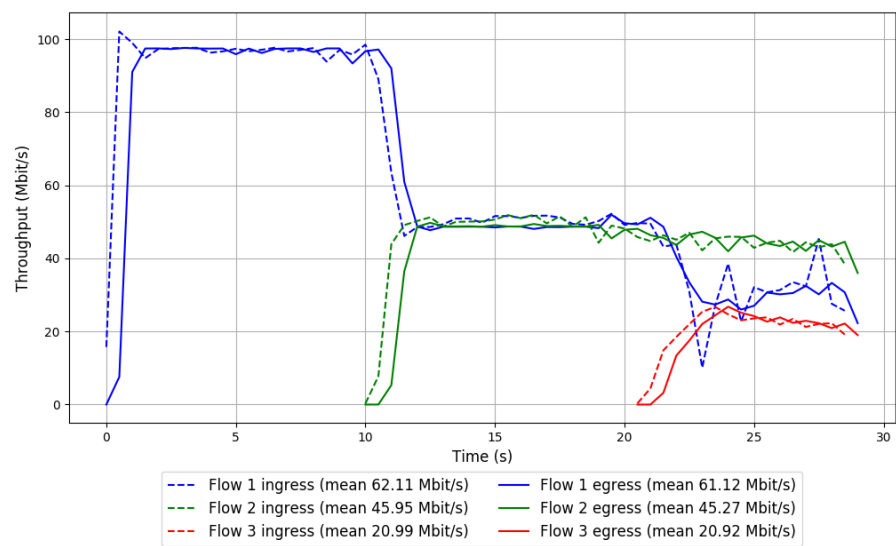


Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-22 03:35:00
End at: 2019-01-22 03:35:30
Local clock offset: 1.907 ms
Remote clock offset: -5.415 ms

Below is generated by plot.py at 2019-01-22 05:10:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.84 Mbit/s
95th percentile per-packet one-way delay: 180.524 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 61.12 Mbit/s
95th percentile per-packet one-way delay: 202.191 ms
Loss rate: 1.84%
-- Flow 2:
Average throughput: 45.27 Mbit/s
95th percentile per-packet one-way delay: 112.565 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 95.220 ms
Loss rate: 1.34%

Run 3: Report of Indigo-MusesT — Data Link

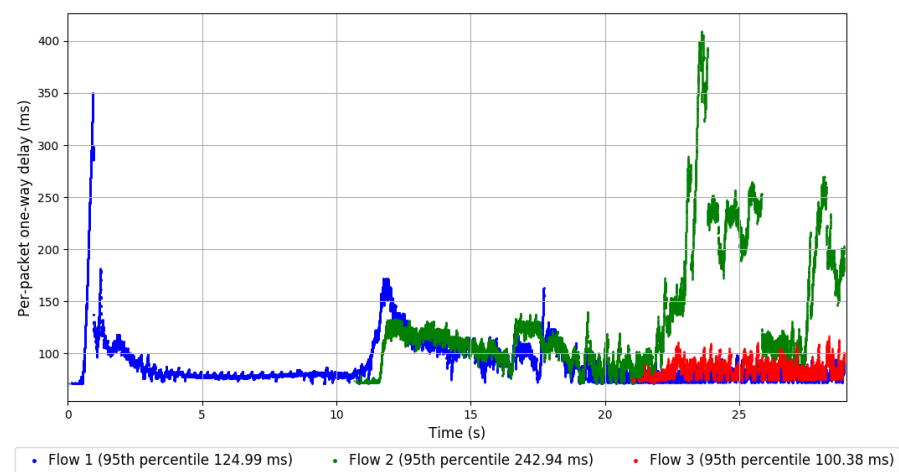
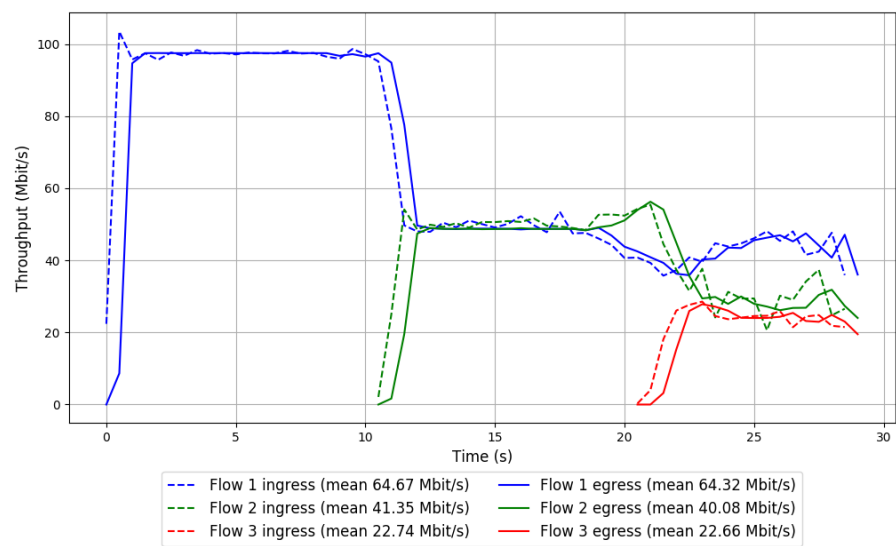


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-22 04:06:38
End at: 2019-01-22 04:07:08
Local clock offset: -0.819 ms
Remote clock offset: -5.351 ms

Below is generated by plot.py at 2019-01-22 05:10:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.92 Mbit/s
95th percentile per-packet one-way delay: 170.627 ms
Loss rate: 1.57%
-- Flow 1:
Average throughput: 64.32 Mbit/s
95th percentile per-packet one-way delay: 124.989 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 242.939 ms
Loss rate: 3.44%
-- Flow 3:
Average throughput: 22.66 Mbit/s
95th percentile per-packet one-way delay: 100.375 ms
Loss rate: 1.46%

Run 4: Report of Indigo-MusesT — Data Link

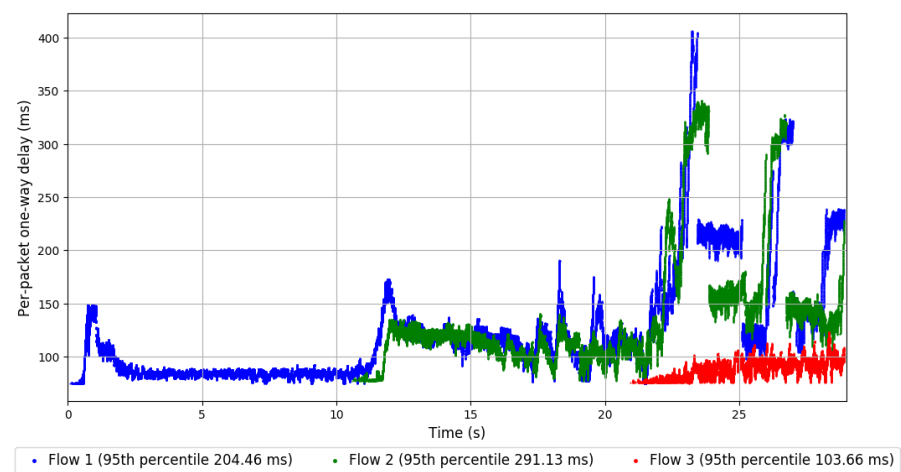
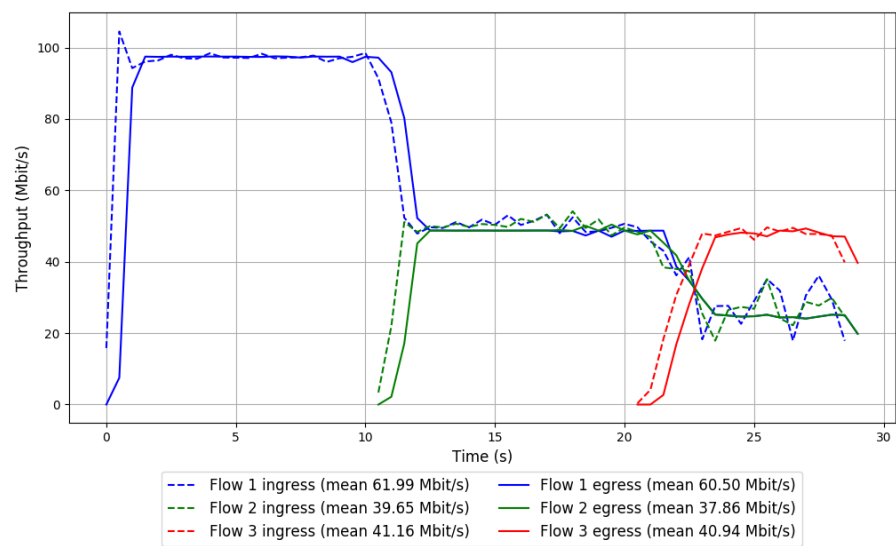


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-22 04:39:06
End at: 2019-01-22 04:39:37
Local clock offset: 0.228 ms
Remote clock offset: -6.233 ms

Below is generated by plot.py at 2019-01-22 05:10:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.87 Mbit/s
95th percentile per-packet one-way delay: 207.236 ms
Loss rate: 3.09%
-- Flow 1:
Average throughput: 60.50 Mbit/s
95th percentile per-packet one-way delay: 204.464 ms
Loss rate: 2.63%
-- Flow 2:
Average throughput: 37.86 Mbit/s
95th percentile per-packet one-way delay: 291.127 ms
Loss rate: 4.93%
-- Flow 3:
Average throughput: 40.94 Mbit/s
95th percentile per-packet one-way delay: 103.655 ms
Loss rate: 1.51%

Run 5: Report of Indigo-MusesT — Data Link

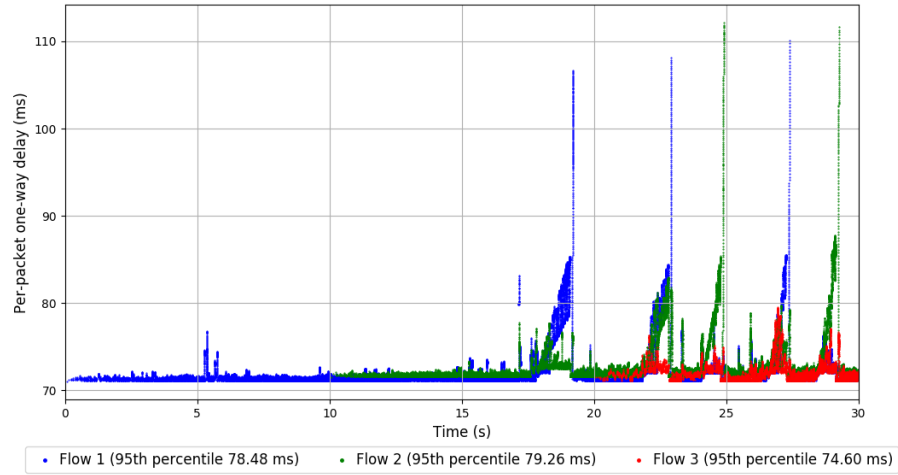
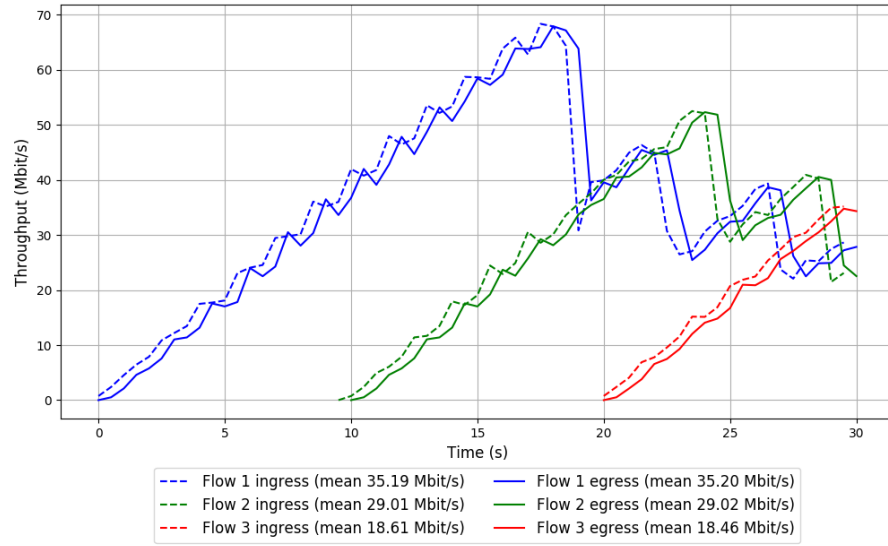


Run 1: Statistics of LEDBAT

Start at: 2019-01-22 02:41:35
End at: 2019-01-22 02:42:05
Local clock offset: -1.091 ms
Remote clock offset: -6.793 ms

Below is generated by plot.py at 2019-01-22 05:10:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.63 Mbit/s
95th percentile per-packet one-way delay: 78.525 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 35.20 Mbit/s
95th percentile per-packet one-way delay: 78.481 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 79.257 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 18.46 Mbit/s
95th percentile per-packet one-way delay: 74.600 ms
Loss rate: 1.59%

Run 1: Report of LEDBAT — Data Link

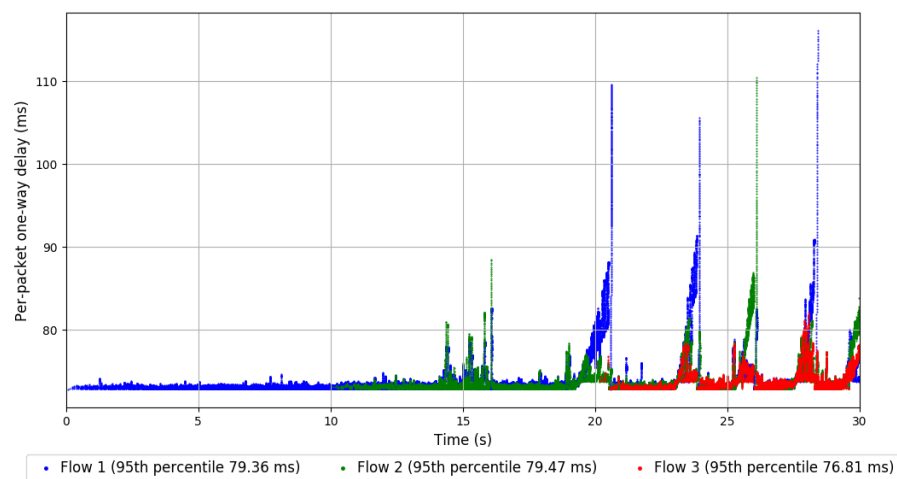
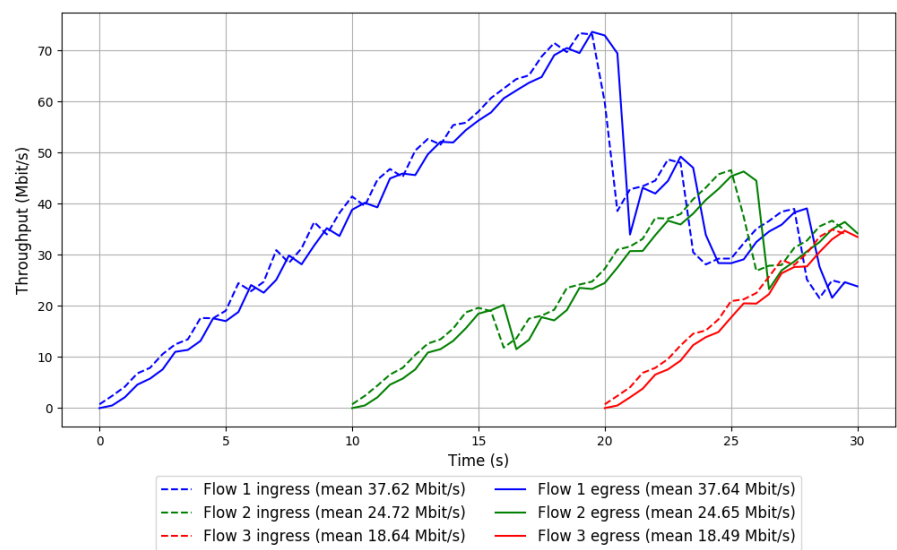


Run 2: Statistics of LEDBAT

Start at: 2019-01-22 03:11:20
End at: 2019-01-22 03:11:50
Local clock offset: 1.181 ms
Remote clock offset: -7.586 ms

Below is generated by plot.py at 2019-01-22 05:10:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.16 Mbit/s
95th percentile per-packet one-way delay: 78.992 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 37.64 Mbit/s
95th percentile per-packet one-way delay: 79.358 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 24.65 Mbit/s
95th percentile per-packet one-way delay: 79.473 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 18.49 Mbit/s
95th percentile per-packet one-way delay: 76.812 ms
Loss rate: 1.59%

Run 2: Report of LEDBAT — Data Link

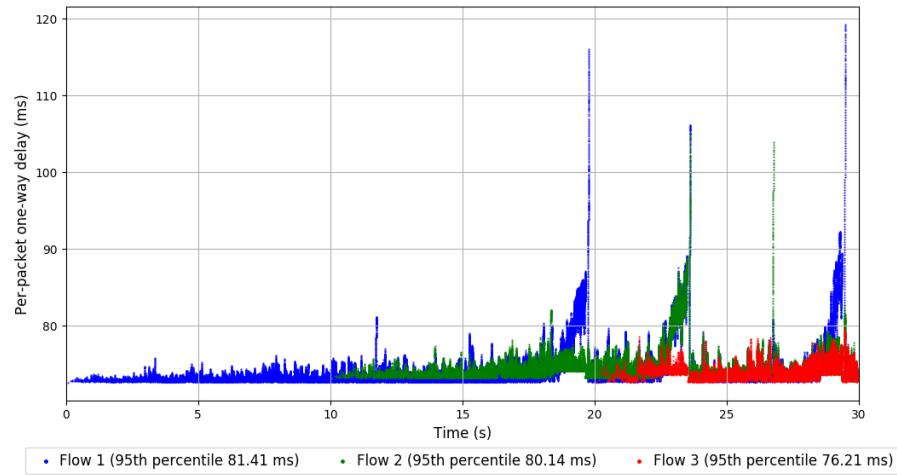
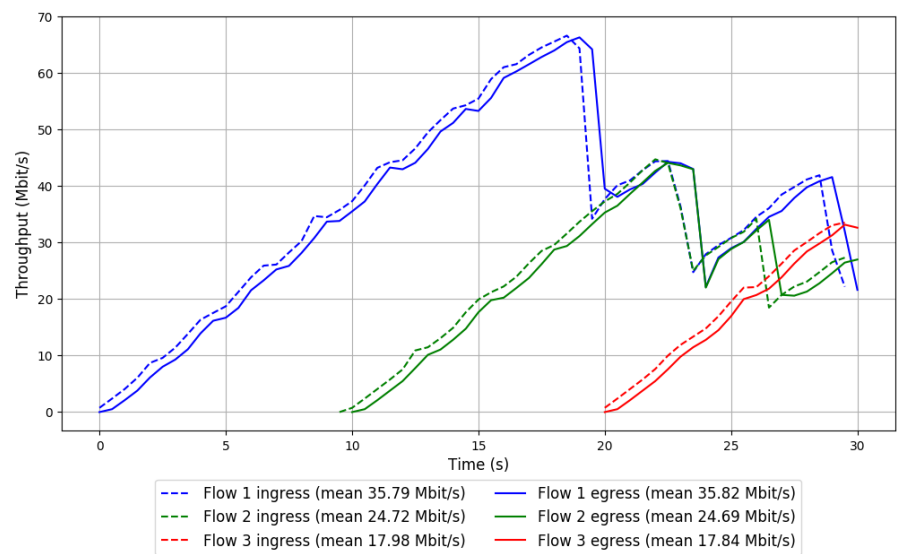


Run 3: Statistics of LEDBAT

Start at: 2019-01-22 03:40:56
End at: 2019-01-22 03:41:26
Local clock offset: 1.602 ms
Remote clock offset: -5.859 ms

Below is generated by plot.py at 2019-01-22 05:10:38
Datalink statistics
-- Total of 3 flows:
Average throughput: 58.16 Mbit/s
95th percentile per-packet one-way delay: 80.465 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 35.82 Mbit/s
95th percentile per-packet one-way delay: 81.406 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 24.69 Mbit/s
95th percentile per-packet one-way delay: 80.139 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 17.84 Mbit/s
95th percentile per-packet one-way delay: 76.213 ms
Loss rate: 1.55%

Run 3: Report of LEDBAT — Data Link

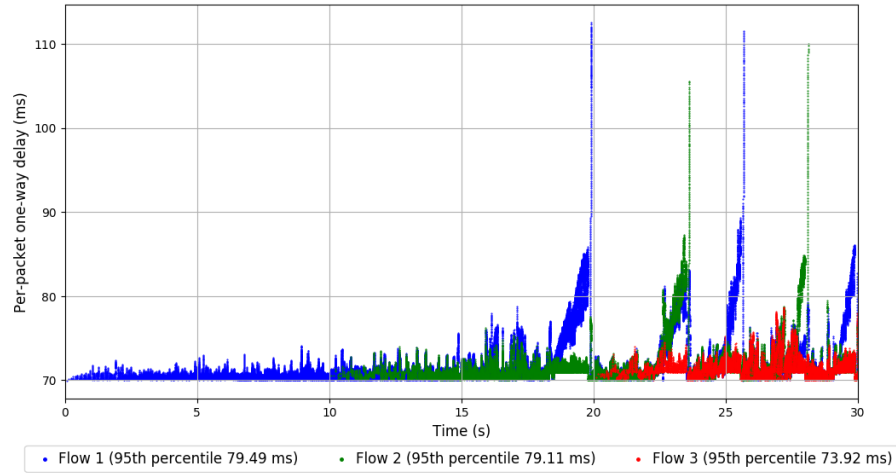
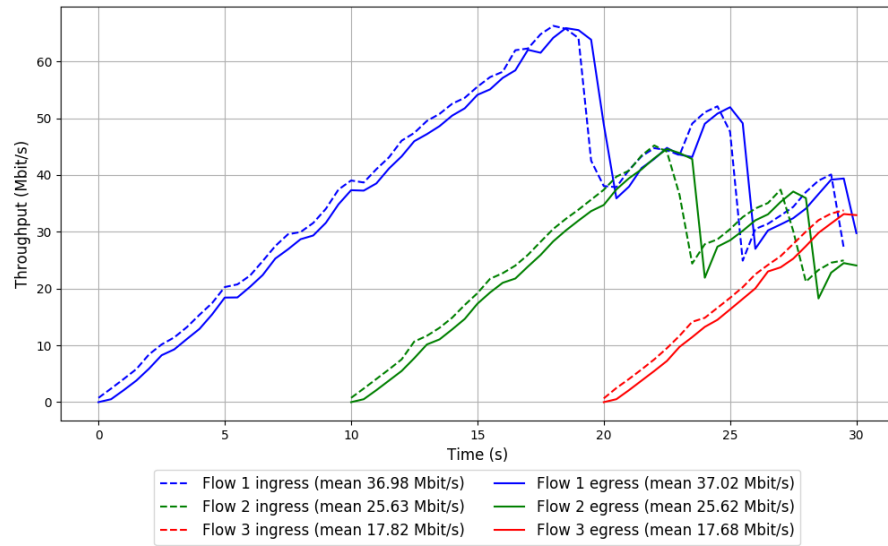


Run 4: Statistics of LEDBAT

Start at: 2019-01-22 04:12:45
End at: 2019-01-22 04:13:15
Local clock offset: 0.343 ms
Remote clock offset: -3.294 ms

Below is generated by plot.py at 2019-01-22 05:11:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.90 Mbit/s
95th percentile per-packet one-way delay: 79.008 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 37.02 Mbit/s
95th percentile per-packet one-way delay: 79.486 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 25.62 Mbit/s
95th percentile per-packet one-way delay: 79.109 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 17.68 Mbit/s
95th percentile per-packet one-way delay: 73.925 ms
Loss rate: 1.62%

Run 4: Report of LEDBAT — Data Link

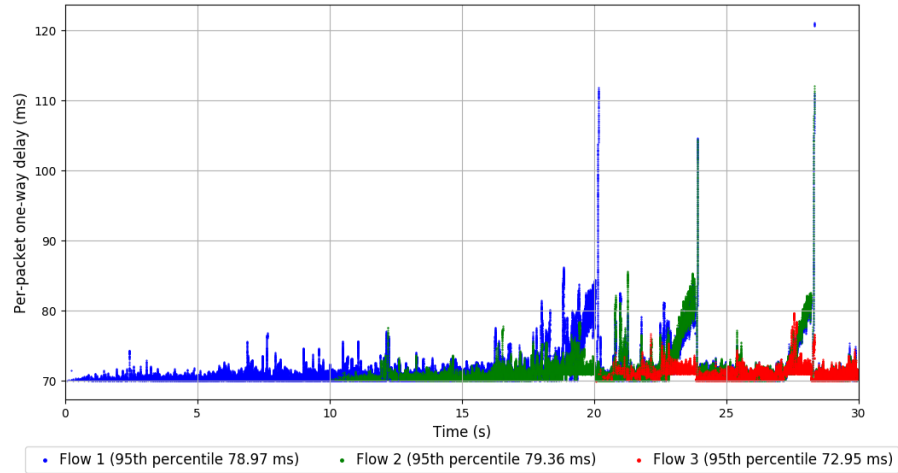
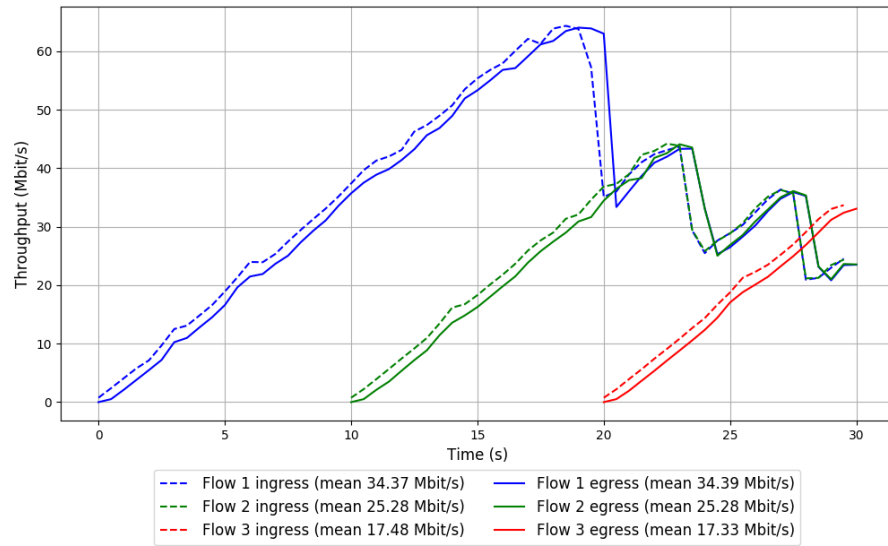


Run 5: Statistics of LEDBAT

Start at: 2019-01-22 04:45:07
End at: 2019-01-22 04:45:37
Local clock offset: -2.74 ms
Remote clock offset: -4.338 ms

Below is generated by plot.py at 2019-01-22 05:11:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.94 Mbit/s
95th percentile per-packet one-way delay: 78.773 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 34.39 Mbit/s
95th percentile per-packet one-way delay: 78.970 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 25.28 Mbit/s
95th percentile per-packet one-way delay: 79.357 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 17.33 Mbit/s
95th percentile per-packet one-way delay: 72.951 ms
Loss rate: 1.66%

Run 5: Report of LEDBAT — Data Link

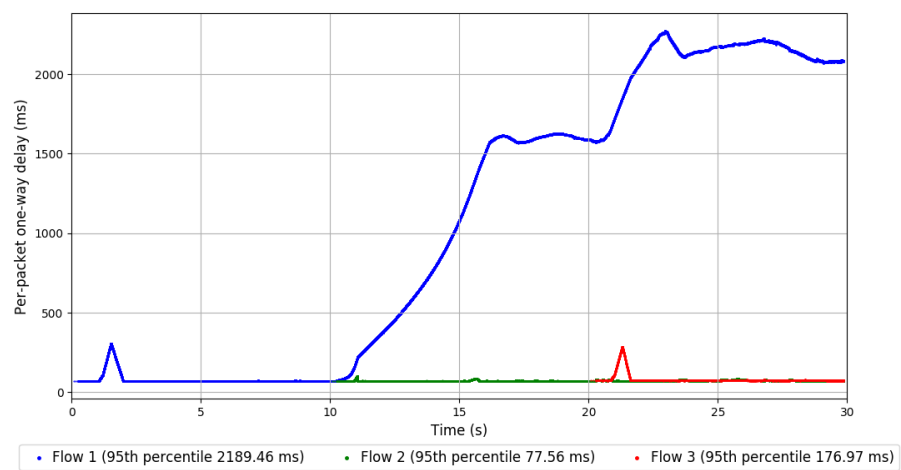
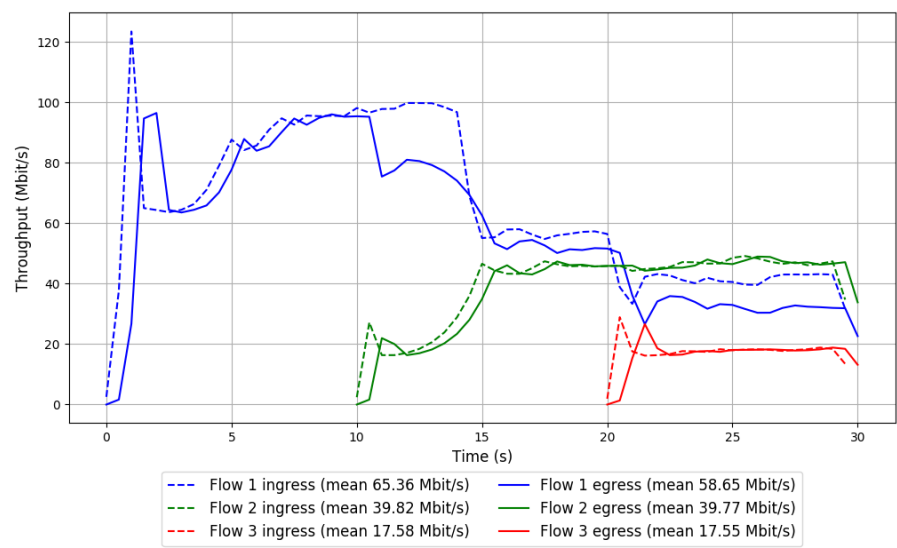


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-22 02:29:34
End at: 2019-01-22 02:30:04
Local clock offset: -2.133 ms
Remote clock offset: -4.131 ms

# Below is generated by plot.py at 2019-01-22 05:11:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.81 Mbit/s
95th percentile per-packet one-way delay: 2155.382 ms
Loss rate: 7.21%
-- Flow 1:
Average throughput: 58.65 Mbit/s
95th percentile per-packet one-way delay: 2189.461 ms
Loss rate: 10.48%
-- Flow 2:
Average throughput: 39.77 Mbit/s
95th percentile per-packet one-way delay: 77.558 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 17.55 Mbit/s
95th percentile per-packet one-way delay: 176.974 ms
Loss rate: 0.96%
```

Run 1: Report of PCC-Allegro — Data Link

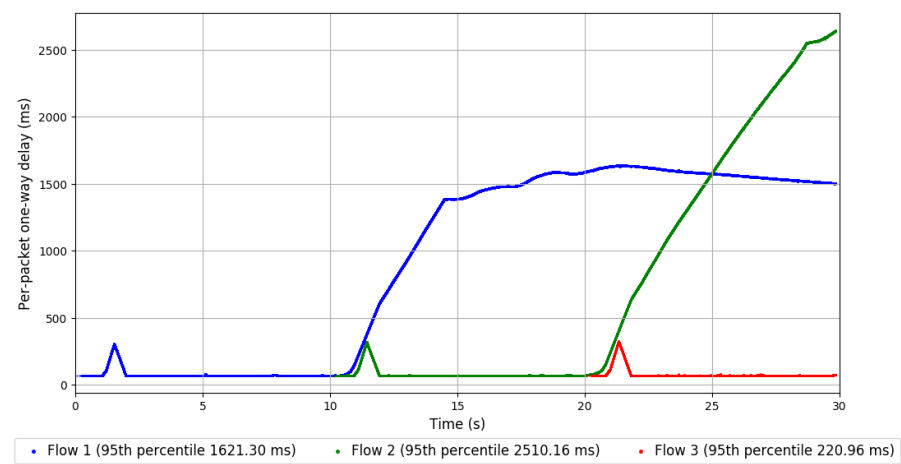
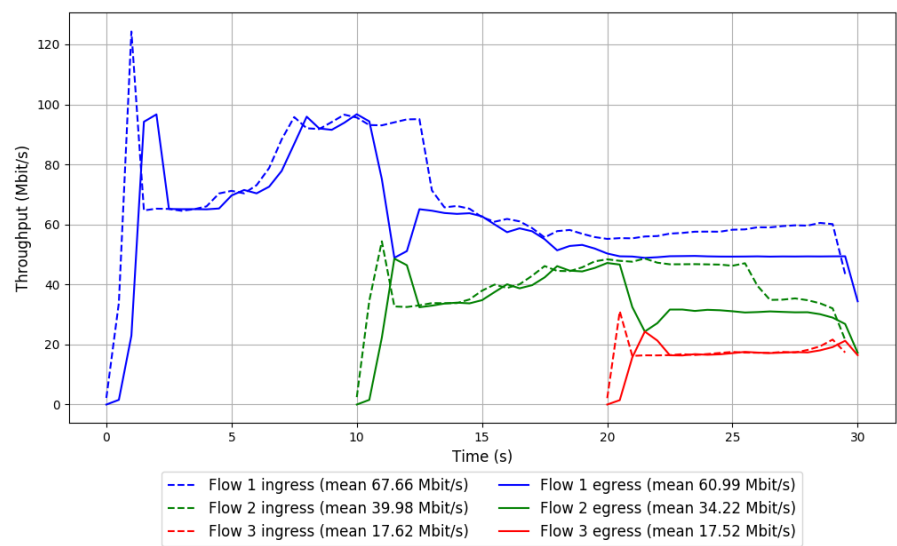


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-22 02:58:25
End at: 2019-01-22 02:58:55
Local clock offset: 0.059 ms
Remote clock offset: -5.878 ms

Below is generated by plot.py at 2019-01-22 05:11:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.46 Mbit/s
95th percentile per-packet one-way delay: 1665.004 ms
Loss rate: 10.81%
-- Flow 1:
Average throughput: 60.99 Mbit/s
95th percentile per-packet one-way delay: 1621.296 ms
Loss rate: 10.07%
-- Flow 2:
Average throughput: 34.22 Mbit/s
95th percentile per-packet one-way delay: 2510.161 ms
Loss rate: 14.75%
-- Flow 3:
Average throughput: 17.52 Mbit/s
95th percentile per-packet one-way delay: 220.960 ms
Loss rate: 1.41%

Run 2: Report of PCC-Allegro — Data Link

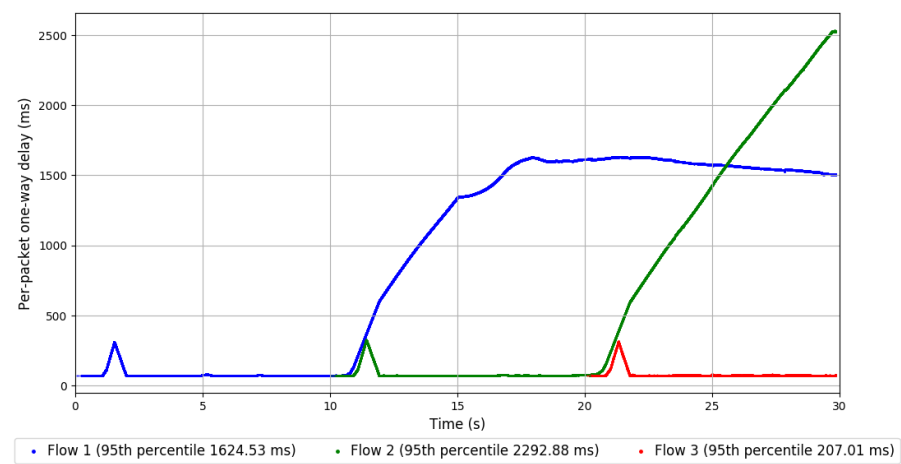
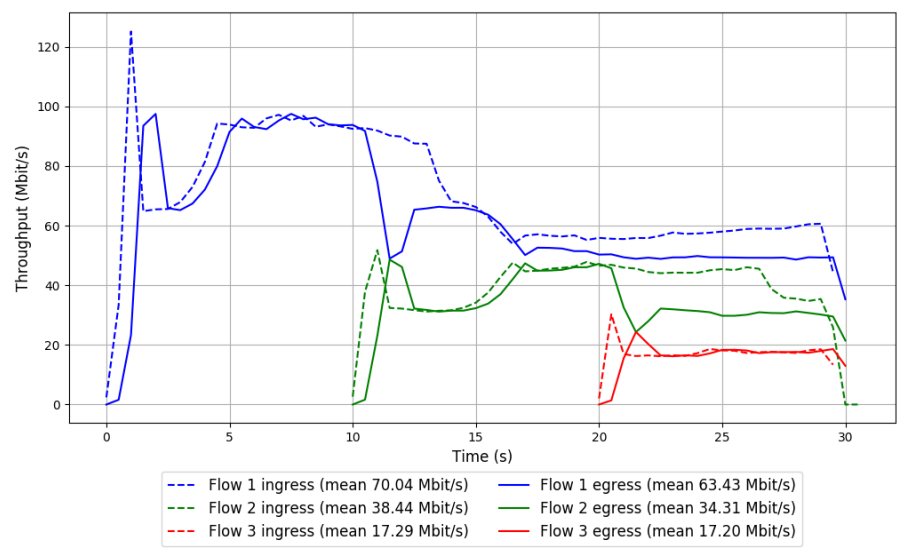


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-22 03:27:52
End at: 2019-01-22 03:28:22
Local clock offset: 0.906 ms
Remote clock offset: -4.968 ms

```
# Below is generated by plot.py at 2019-01-22 05:11:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.85 Mbit/s
95th percentile per-packet one-way delay: 1631.264 ms
Loss rate: 10.51%
-- Flow 1:
Average throughput: 63.43 Mbit/s
95th percentile per-packet one-way delay: 1624.526 ms
Loss rate: 9.68%
-- Flow 2:
Average throughput: 34.31 Mbit/s
95th percentile per-packet one-way delay: 2292.876 ms
Loss rate: 14.68%
-- Flow 3:
Average throughput: 17.20 Mbit/s
95th percentile per-packet one-way delay: 207.014 ms
Loss rate: 1.34%
```

Run 3: Report of PCC-Allegro — Data Link

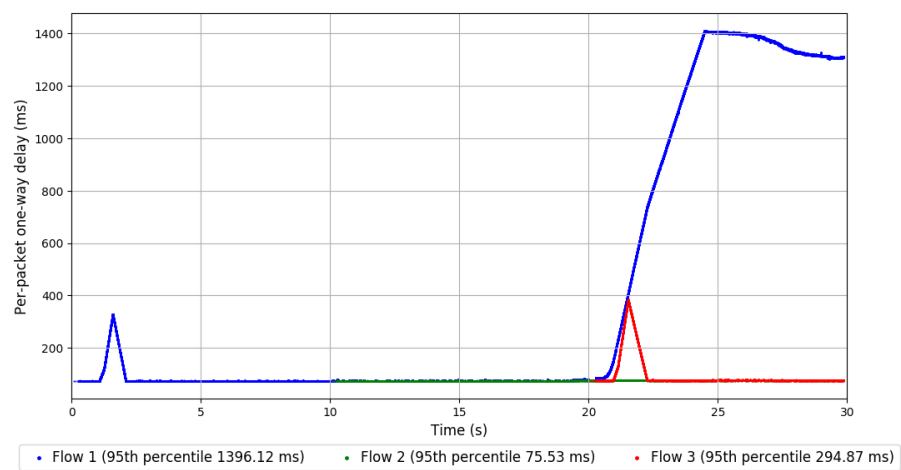
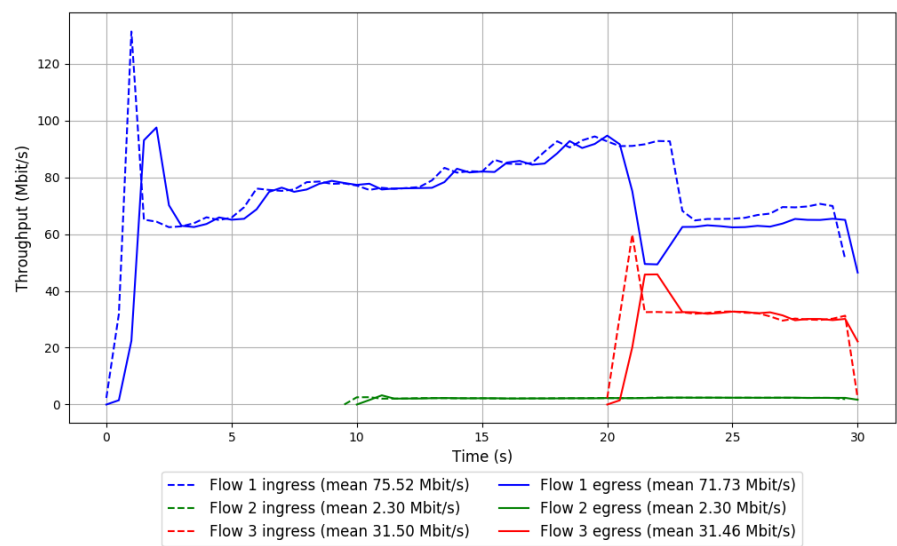


Run 4: Statistics of PCC-Allegro

Start at: 2019-01-22 03:59:14
End at: 2019-01-22 03:59:44
Local clock offset: 2.187 ms
Remote clock offset: -5.542 ms

Below is generated by plot.py at 2019-01-22 05:11:37
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.57 Mbit/s
95th percentile per-packet one-way delay: 1390.894 ms
Loss rate: 4.87%
-- Flow 1:
Average throughput: 71.73 Mbit/s
95th percentile per-packet one-way delay: 1396.117 ms
Loss rate: 5.27%
-- Flow 2:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 75.532 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 31.46 Mbit/s
95th percentile per-packet one-way delay: 294.867 ms
Loss rate: 2.67%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-22 04:31:13

End at: 2019-01-22 04:31:43

Local clock offset: -0.495 ms

Remote clock offset: -5.48 ms

Below is generated by plot.py at 2019-01-22 05:11:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 61.72 Mbit/s

95th percentile per-packet one-way delay: 362.980 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 17.65 Mbit/s

95th percentile per-packet one-way delay: 74.540 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 58.09 Mbit/s

95th percentile per-packet one-way delay: 455.145 ms

Loss rate: 0.94%

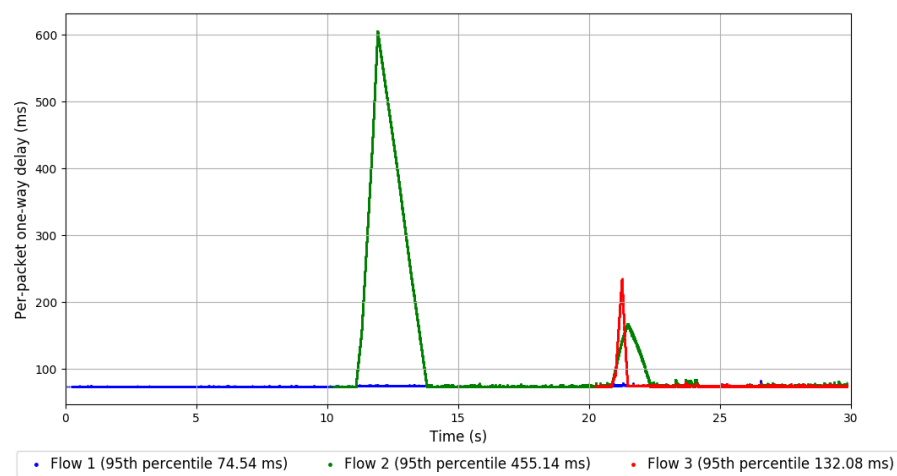
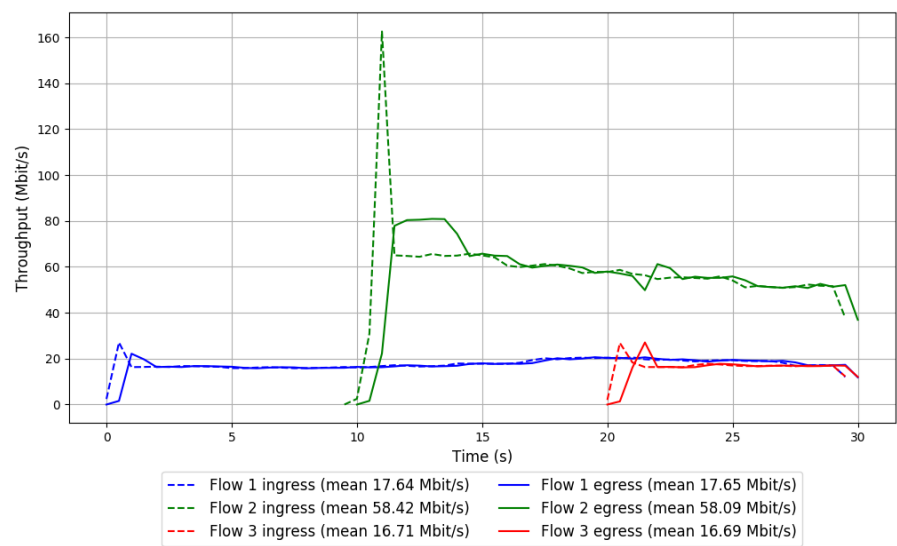
-- Flow 3:

Average throughput: 16.69 Mbit/s

95th percentile per-packet one-way delay: 132.080 ms

Loss rate: 0.88%

Run 5: Report of PCC-Allegro — Data Link

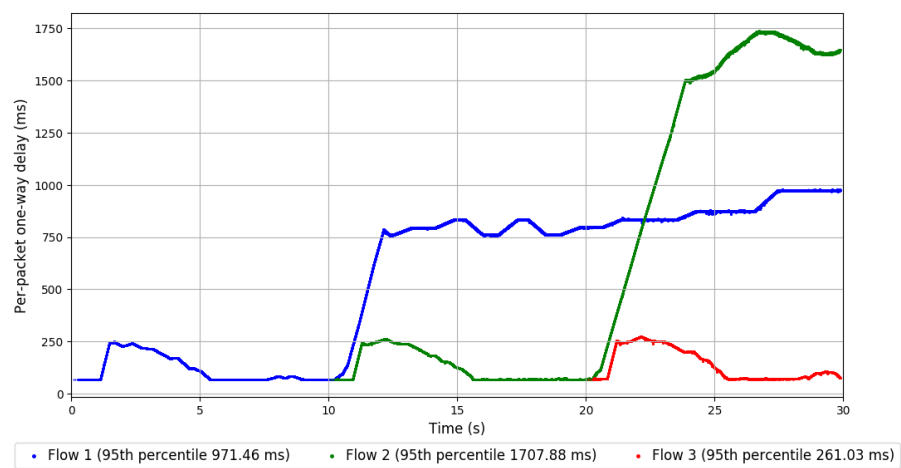
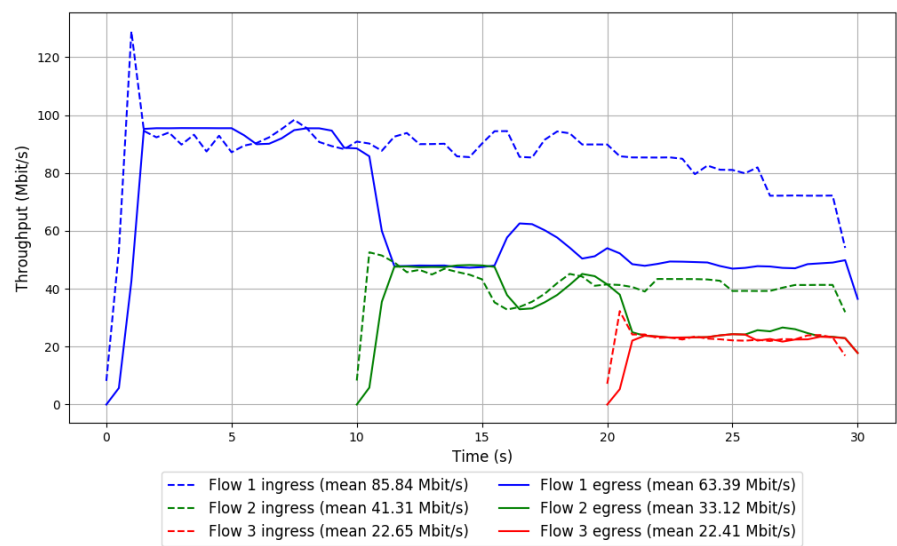



```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-22 02:51:06
End at: 2019-01-22 02:51:36
Local clock offset: -1.916 ms
Remote clock offset: -5.591 ms

# Below is generated by plot.py at 2019-01-22 05:12:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.75 Mbit/s
95th percentile per-packet one-way delay: 1500.639 ms
Loss rate: 23.43%
-- Flow 1:
Average throughput: 63.39 Mbit/s
95th percentile per-packet one-way delay: 971.464 ms
Loss rate: 26.35%
-- Flow 2:
Average throughput: 33.12 Mbit/s
95th percentile per-packet one-way delay: 1707.881 ms
Loss rate: 20.20%
-- Flow 3:
Average throughput: 22.41 Mbit/s
95th percentile per-packet one-way delay: 261.031 ms
Loss rate: 1.85%
```

Run 1: Report of PCC-Expr — Data Link

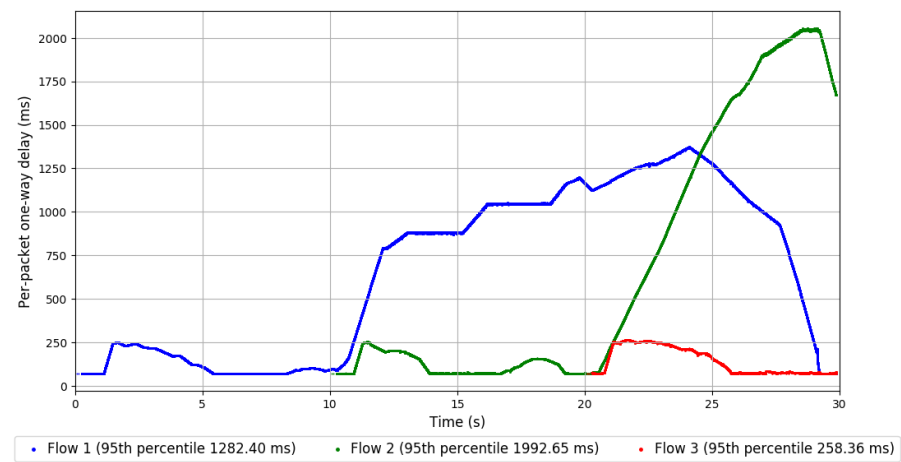
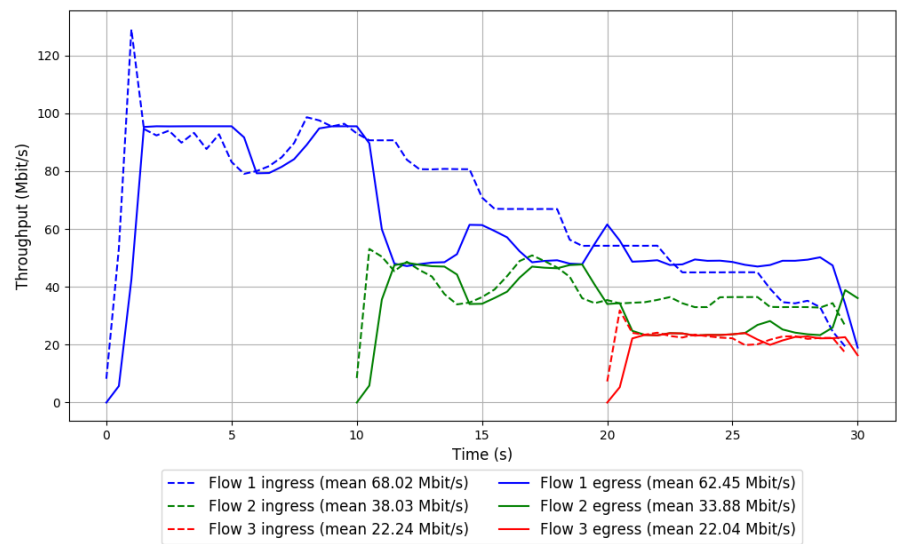


Run 2: Statistics of PCC-Expr

Start at: 2019-01-22 03:20:55
End at: 2019-01-22 03:21:25
Local clock offset: 0.217 ms
Remote clock offset: -5.728 ms

Below is generated by plot.py at 2019-01-22 05:13:09
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.19 Mbit/s
95th percentile per-packet one-way delay: 1408.120 ms
Loss rate: 8.64%
-- Flow 1:
Average throughput: 62.45 Mbit/s
95th percentile per-packet one-way delay: 1282.398 ms
Loss rate: 8.43%
-- Flow 2:
Average throughput: 33.88 Mbit/s
95th percentile per-packet one-way delay: 1992.648 ms
Loss rate: 11.25%
-- Flow 3:
Average throughput: 22.04 Mbit/s
95th percentile per-packet one-way delay: 258.361 ms
Loss rate: 1.69%

Run 2: Report of PCC-Expr — Data Link

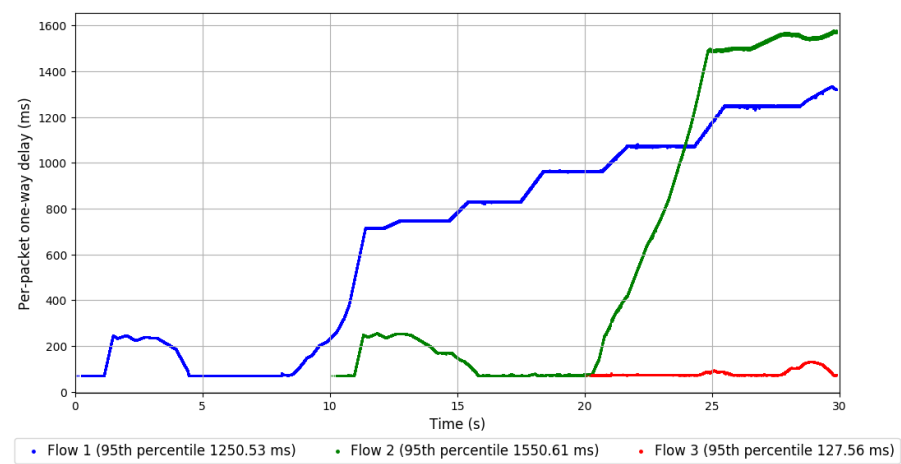
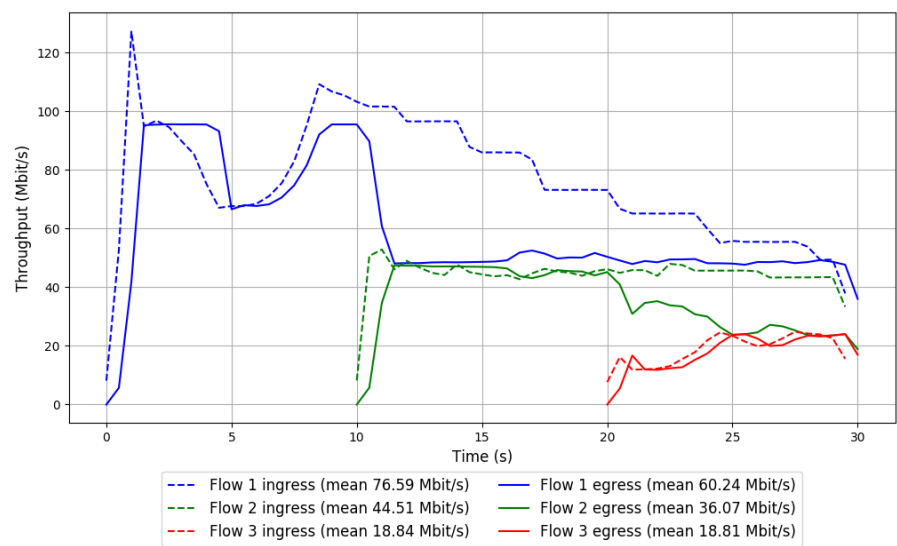


Run 3: Statistics of PCC-Expr

Start at: 2019-01-22 03:51:27
End at: 2019-01-22 03:51:57
Local clock offset: -0.95 ms
Remote clock offset: -5.728 ms

Below is generated by plot.py at 2019-01-22 05:13:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.38 Mbit/s
95th percentile per-packet one-way delay: 1327.269 ms
Loss rate: 19.85%
-- Flow 1:
Average throughput: 60.24 Mbit/s
95th percentile per-packet one-way delay: 1250.527 ms
Loss rate: 21.60%
-- Flow 2:
Average throughput: 36.07 Mbit/s
95th percentile per-packet one-way delay: 1550.609 ms
Loss rate: 19.28%
-- Flow 3:
Average throughput: 18.81 Mbit/s
95th percentile per-packet one-way delay: 127.563 ms
Loss rate: 0.94%

Run 3: Report of PCC-Expr — Data Link

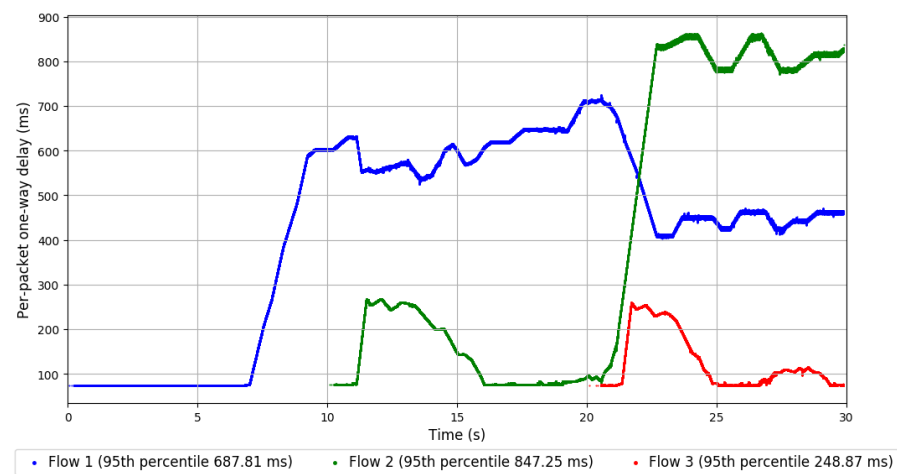
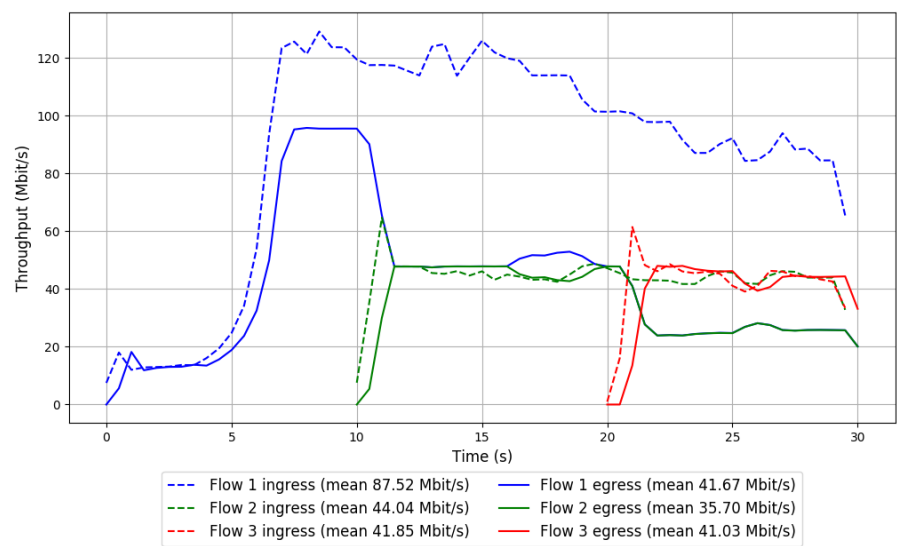


Run 4: Statistics of PCC-Expr

Start at: 2019-01-22 04:23:34
End at: 2019-01-22 04:24:04
Local clock offset: 0.755 ms
Remote clock offset: -5.936 ms

Below is generated by plot.py at 2019-01-22 05:13:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 78.84 Mbit/s
95th percentile per-packet one-way delay: 808.750 ms
Loss rate: 39.79%
-- Flow 1:
Average throughput: 41.67 Mbit/s
95th percentile per-packet one-way delay: 687.813 ms
Loss rate: 52.52%
-- Flow 2:
Average throughput: 35.70 Mbit/s
95th percentile per-packet one-way delay: 847.249 ms
Loss rate: 19.24%
-- Flow 3:
Average throughput: 41.03 Mbit/s
95th percentile per-packet one-way delay: 248.867 ms
Loss rate: 2.74%

Run 4: Report of PCC-Expr — Data Link

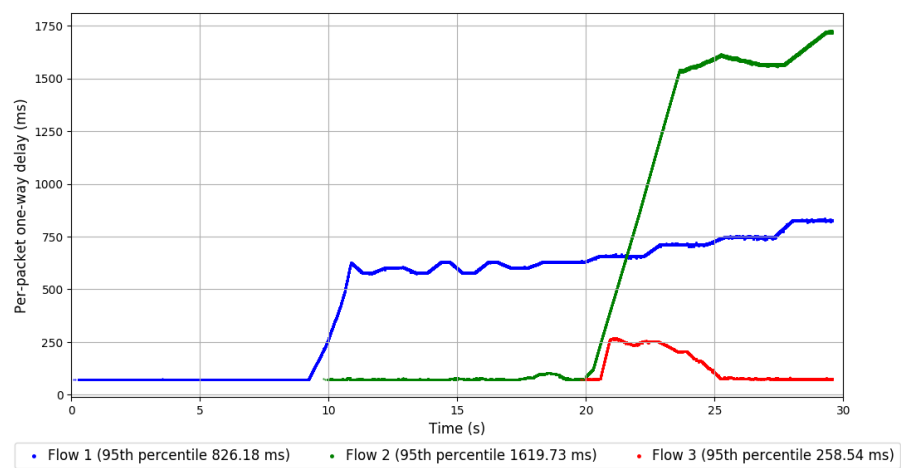
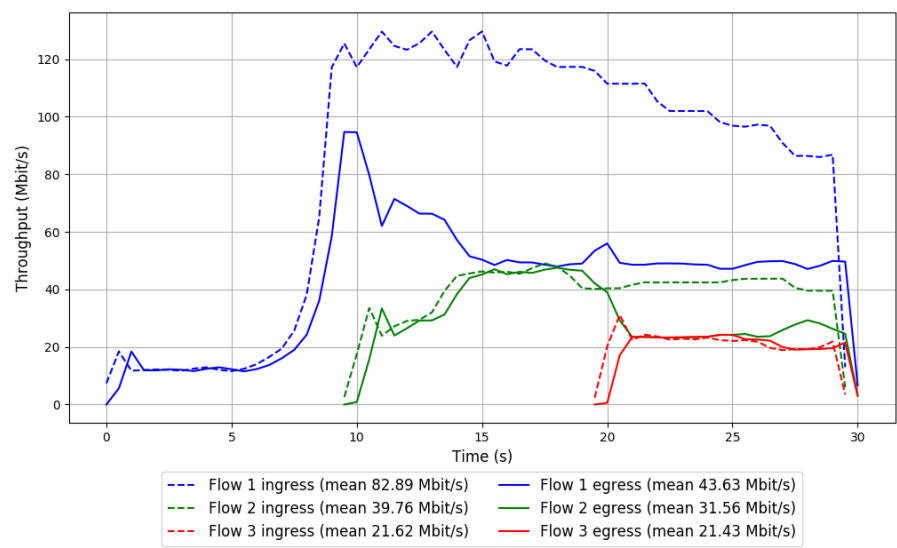


Run 5: Statistics of PCC-Expr

Start at: 2019-01-22 04:55:14
End at: 2019-01-22 04:55:44
Local clock offset: 0.156 ms
Remote clock offset: -5.107 ms

Below is generated by plot.py at 2019-01-22 05:13:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 71.91 Mbit/s
95th percentile per-packet one-way delay: 1567.004 ms
Loss rate: 38.61%
-- Flow 1:
Average throughput: 43.63 Mbit/s
95th percentile per-packet one-way delay: 826.181 ms
Loss rate: 47.51%
-- Flow 2:
Average throughput: 31.56 Mbit/s
95th percentile per-packet one-way delay: 1619.730 ms
Loss rate: 20.99%
-- Flow 3:
Average throughput: 21.43 Mbit/s
95th percentile per-packet one-way delay: 258.536 ms
Loss rate: 1.69%

Run 5: Report of PCC-Expr — Data Link

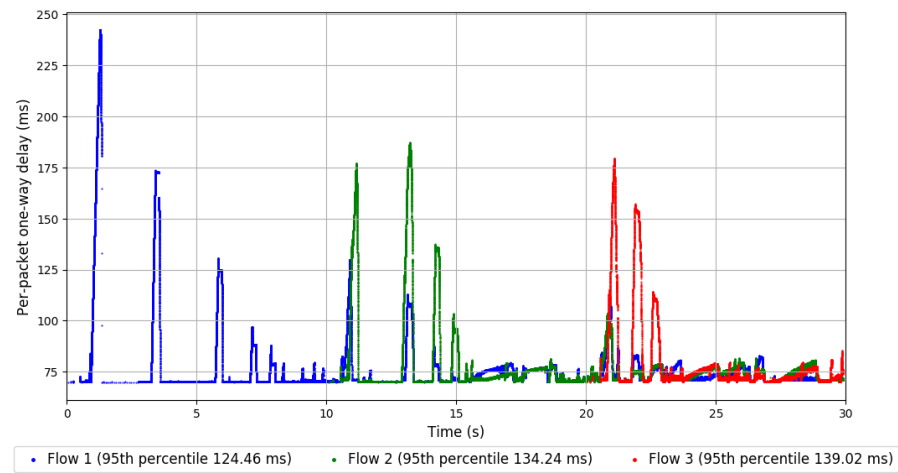
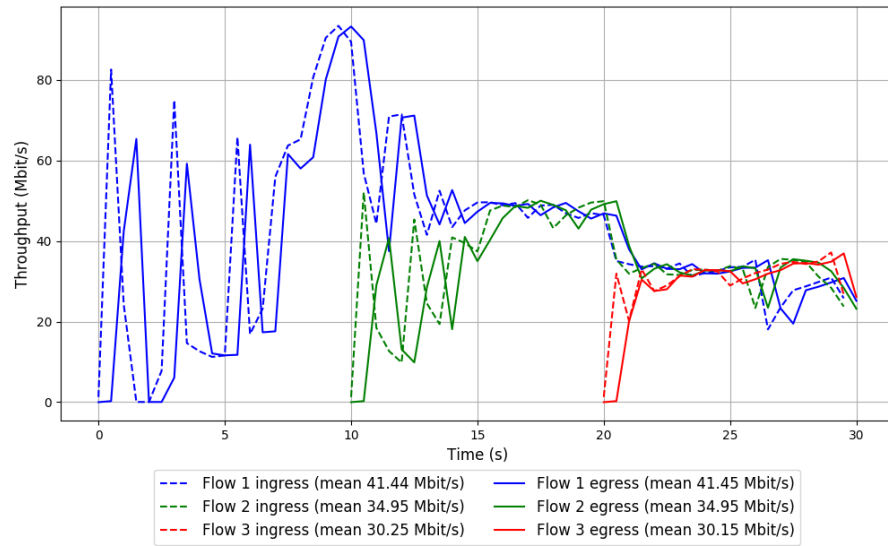


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-22 02:33:49
End at: 2019-01-22 02:34:19
Local clock offset: -2.655 ms
Remote clock offset: -7.239 ms

Below is generated by plot.py at 2019-01-22 05:13:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.60 Mbit/s
95th percentile per-packet one-way delay: 126.841 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 41.45 Mbit/s
95th percentile per-packet one-way delay: 124.462 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 34.95 Mbit/s
95th percentile per-packet one-way delay: 134.241 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 30.15 Mbit/s
95th percentile per-packet one-way delay: 139.016 ms
Loss rate: 1.13%

Run 1: Report of QUIC Cubic — Data Link

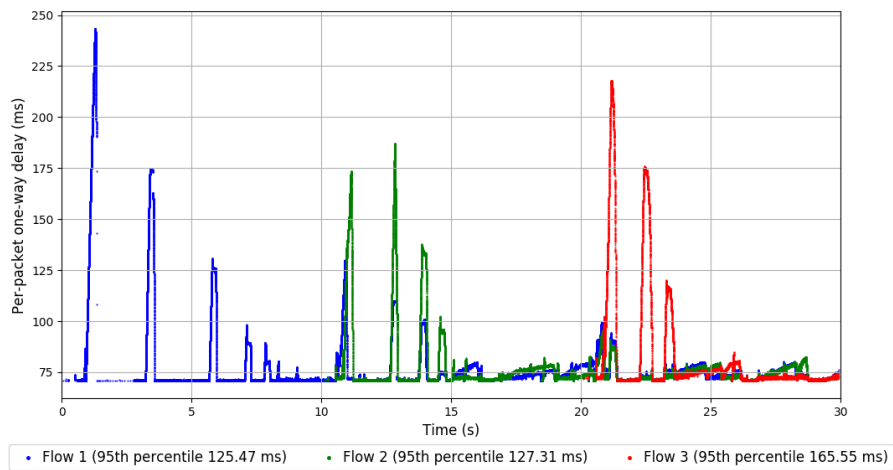
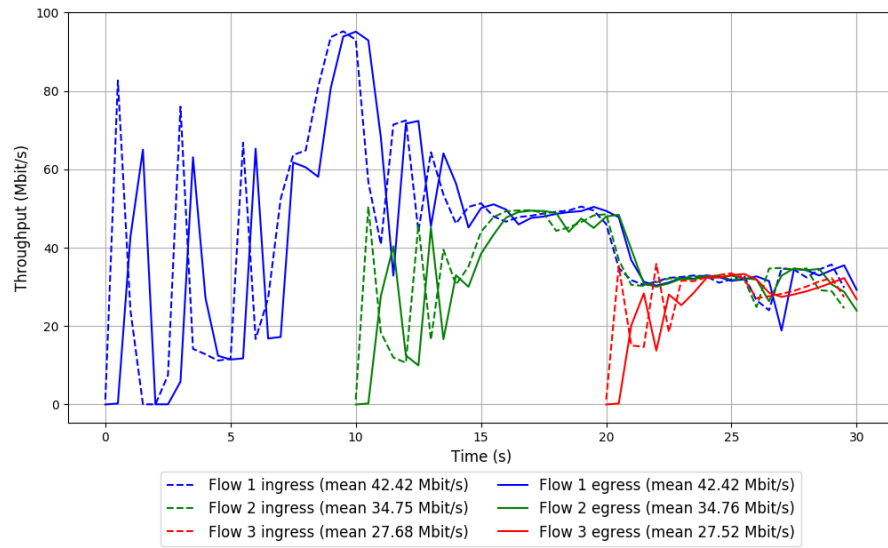


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-22 03:02:53
End at: 2019-01-22 03:03:23
Local clock offset: 1.438 ms
Remote clock offset: -5.392 ms

Below is generated by plot.py at 2019-01-22 05:13:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.56 Mbit/s
95th percentile per-packet one-way delay: 126.797 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 42.42 Mbit/s
95th percentile per-packet one-way delay: 125.468 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 34.76 Mbit/s
95th percentile per-packet one-way delay: 127.308 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 27.52 Mbit/s
95th percentile per-packet one-way delay: 165.552 ms
Loss rate: 1.39%

Run 2: Report of QUIC Cubic — Data Link

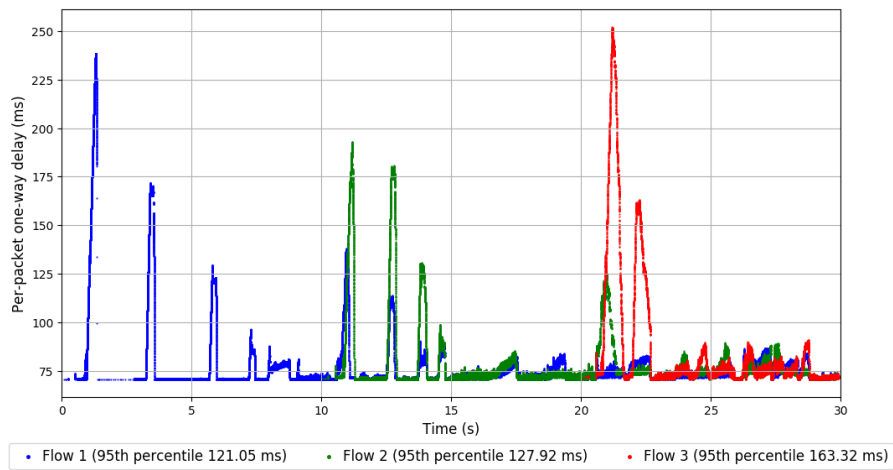
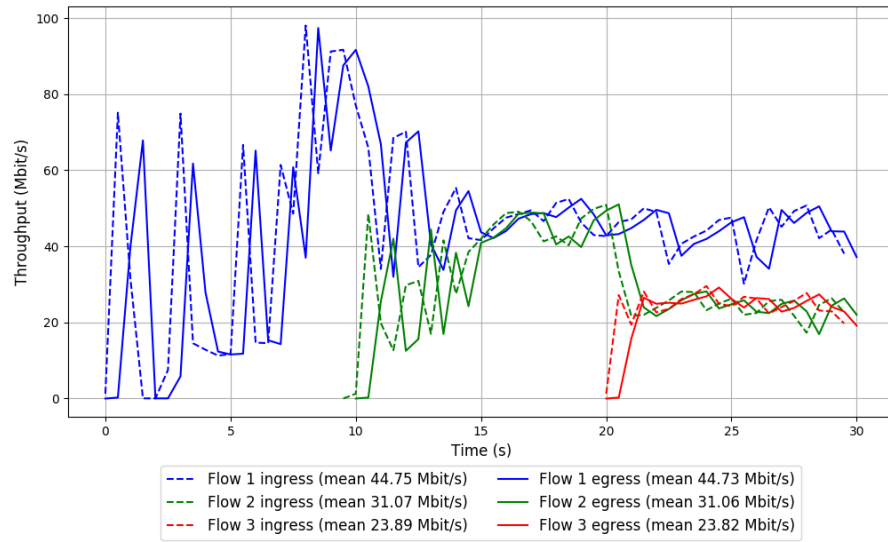


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-22 03:32:04
End at: 2019-01-22 03:32:34
Local clock offset: 1.519 ms
Remote clock offset: -4.161 ms

Below is generated by plot.py at 2019-01-22 05:13:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.23 Mbit/s
95th percentile per-packet one-way delay: 128.160 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 44.73 Mbit/s
95th percentile per-packet one-way delay: 121.053 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 31.06 Mbit/s
95th percentile per-packet one-way delay: 127.917 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 23.82 Mbit/s
95th percentile per-packet one-way delay: 163.324 ms
Loss rate: 1.09%

Run 3: Report of QUIC Cubic — Data Link

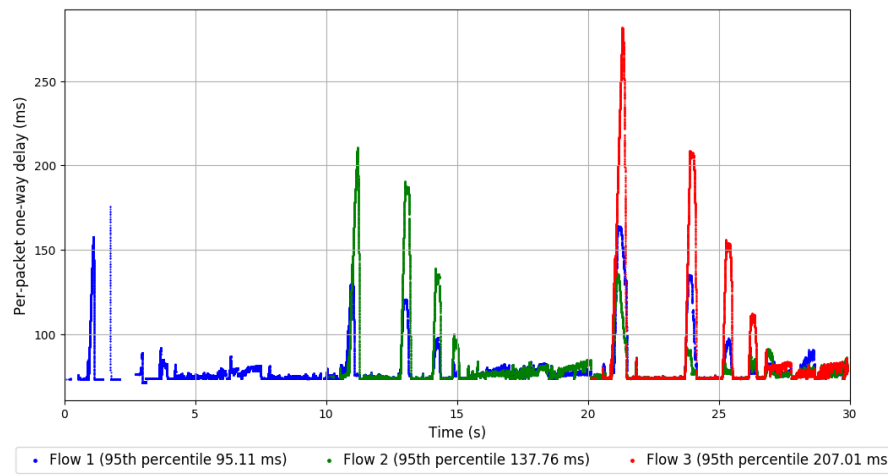
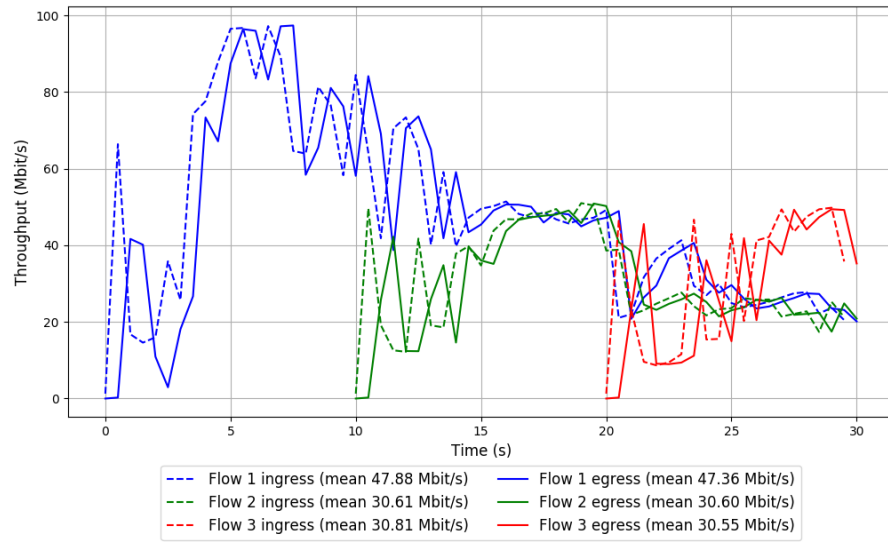


Run 4: Statistics of QUIC Cubic

Start at: 2019-01-22 04:03:47
End at: 2019-01-22 04:04:17
Local clock offset: 2.66 ms
Remote clock offset: -4.698 ms

Below is generated by plot.py at 2019-01-22 05:13:31
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.74 Mbit/s
95th percentile per-packet one-way delay: 130.595 ms
Loss rate: 1.14%
-- Flow 1:
Average throughput: 47.36 Mbit/s
95th percentile per-packet one-way delay: 95.111 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 30.60 Mbit/s
95th percentile per-packet one-way delay: 137.758 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 30.55 Mbit/s
95th percentile per-packet one-way delay: 207.013 ms
Loss rate: 1.62%

Run 4: Report of QUIC Cubic — Data Link

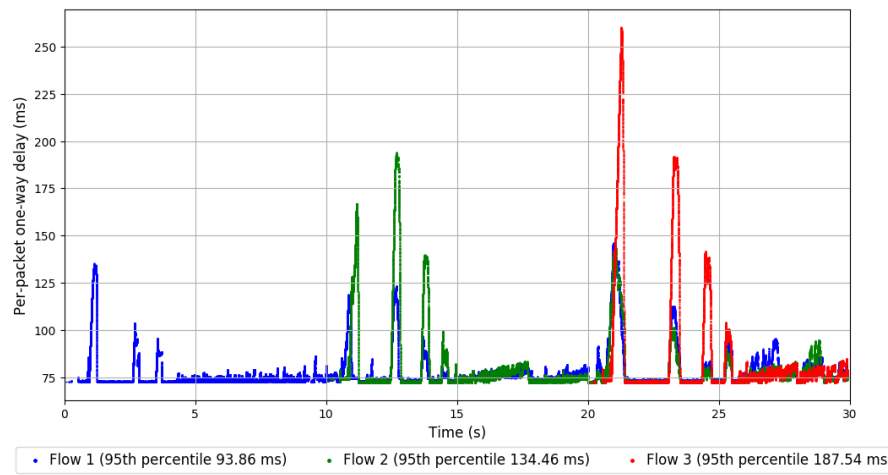
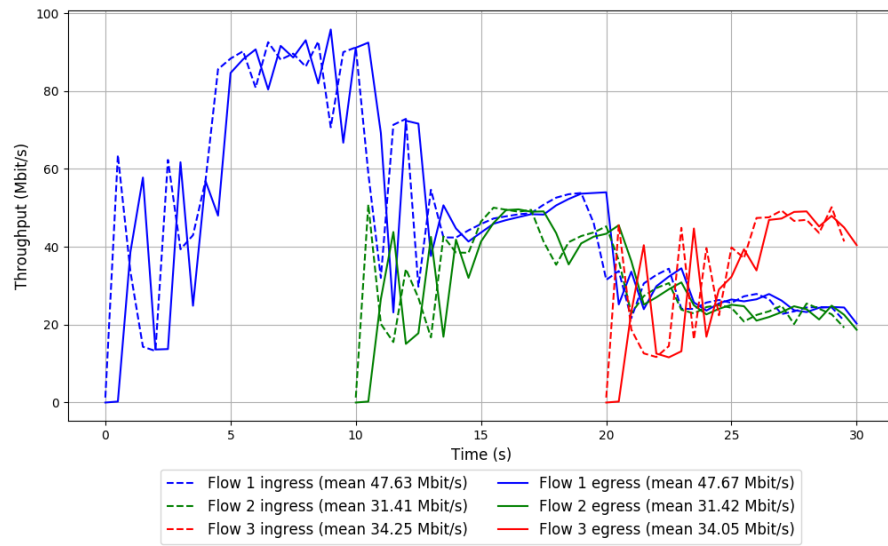


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-22 04:35:54
End at: 2019-01-22 04:36:24
Local clock offset: 0.297 ms
Remote clock offset: -3.688 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.73 Mbit/s
95th percentile per-packet one-way delay: 120.039 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 47.67 Mbit/s
95th percentile per-packet one-way delay: 93.862 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 31.42 Mbit/s
95th percentile per-packet one-way delay: 134.461 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 34.05 Mbit/s
95th percentile per-packet one-way delay: 187.542 ms
Loss rate: 1.39%

Run 5: Report of QUIC Cubic — Data Link



Run 1: Statistics of SReAM

Start at: 2019-01-22 02:47:03

End at: 2019-01-22 02:47:33

Local clock offset: 0.258 ms

Remote clock offset: -6.62 ms

Below is generated by plot.py at 2019-01-22 05:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 72.075 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.078 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.070 ms

Loss rate: 0.39%

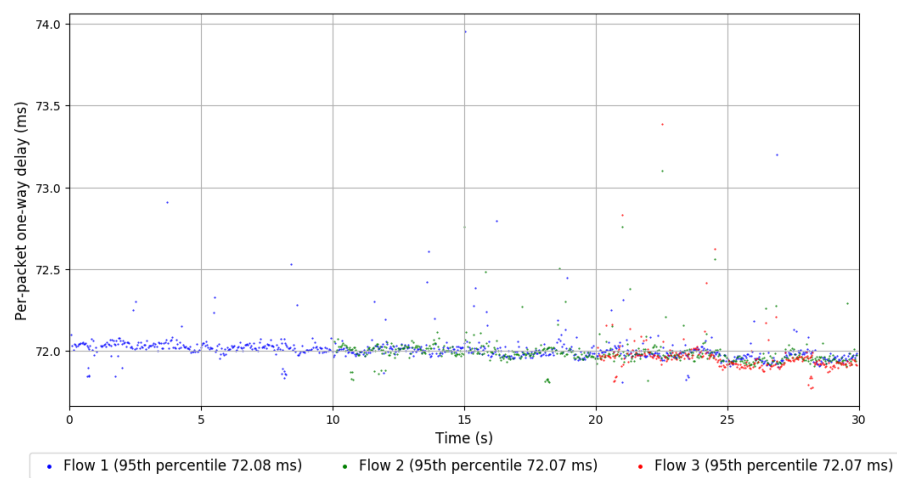
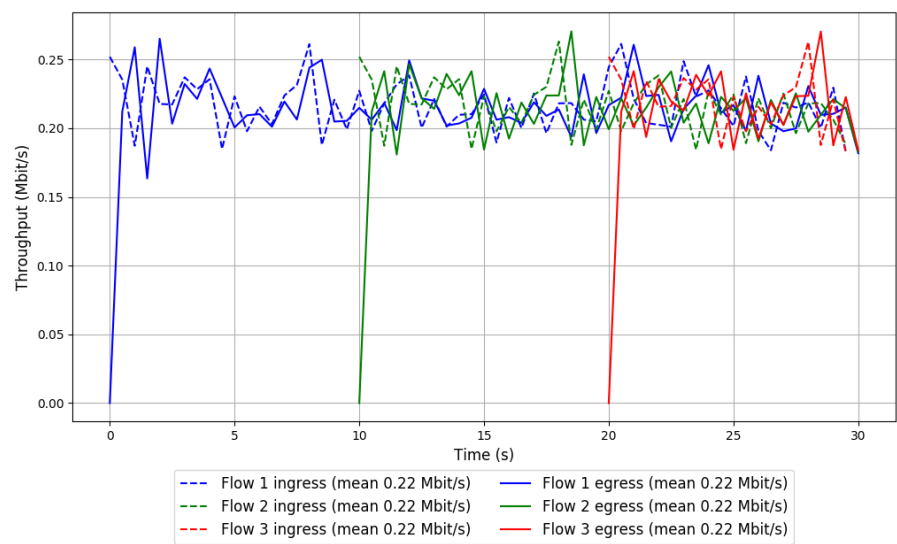
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.069 ms

Loss rate: 0.70%

Run 1: Report of SReAM — Data Link

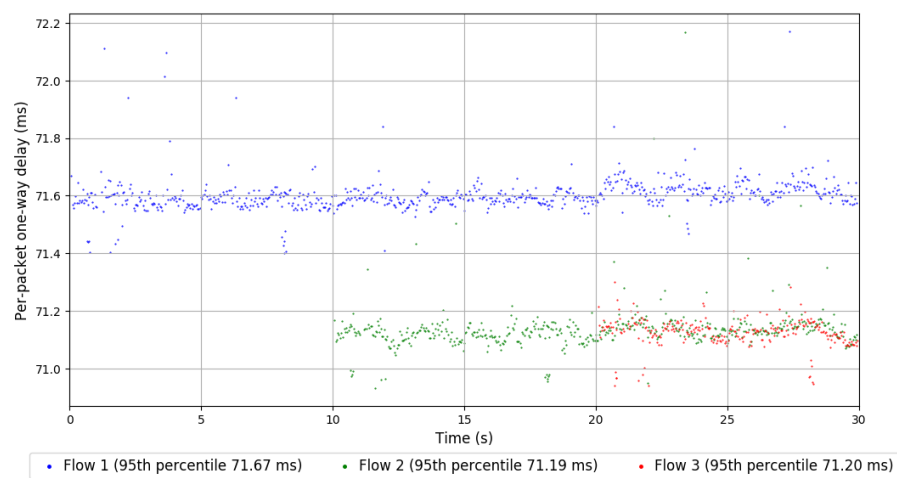
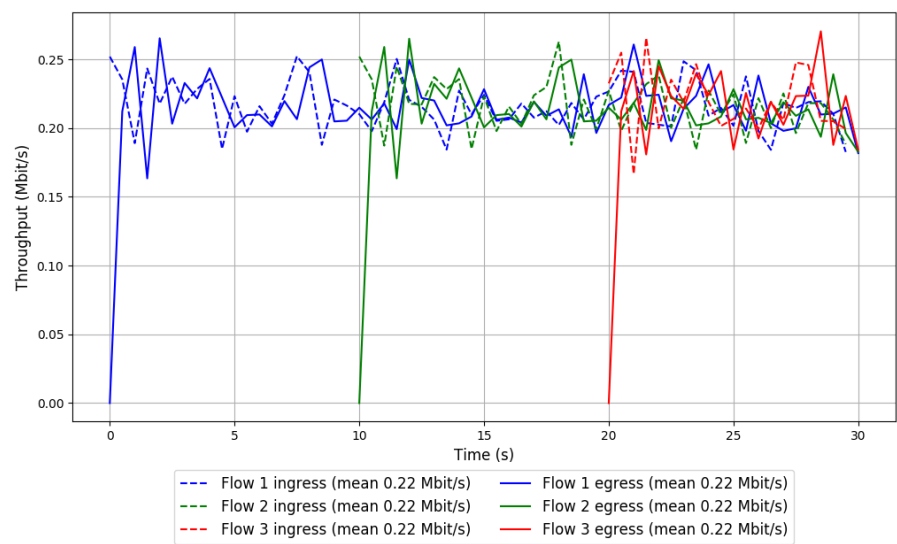


Run 2: Statistics of SReAM

Start at: 2019-01-22 03:16:47
End at: 2019-01-22 03:17:17
Local clock offset: 0.89 ms
Remote clock offset: -6.009 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 71.646 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.670 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.189 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.198 ms
Loss rate: 0.70%

Run 2: Report of SReAM — Data Link

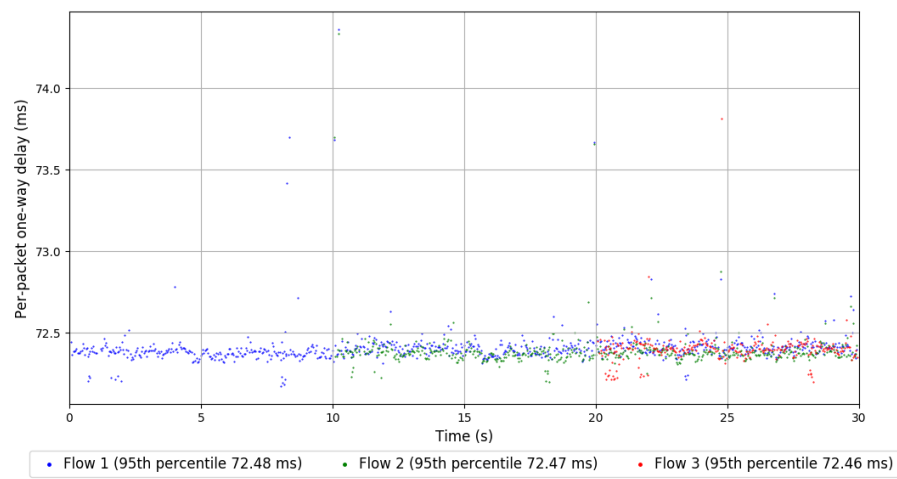
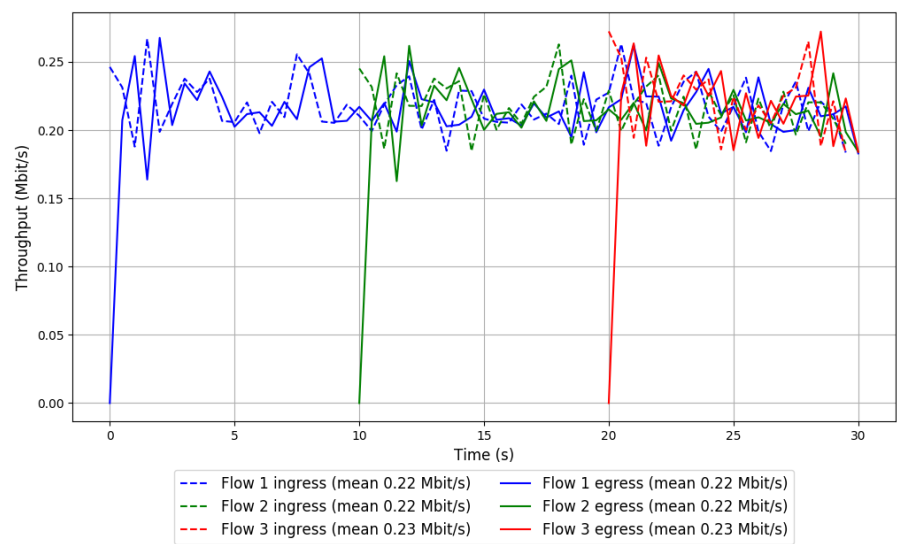


Run 3: Statistics of SReAM

Start at: 2019-01-22 03:46:46
End at: 2019-01-22 03:47:16
Local clock offset: -2.672 ms
Remote clock offset: -9.576 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 72.476 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.484 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 72.465 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 72.464 ms
Loss rate: 0.70%

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SReAM

Start at: 2019-01-22 04:18:54

End at: 2019-01-22 04:19:24

Local clock offset: 1.548 ms

Remote clock offset: -3.86 ms

Below is generated by plot.py at 2019-01-22 05:13:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 72.390 ms

Loss rate: 0.39%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.437 ms

Loss rate: 0.26%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.356 ms

Loss rate: 0.39%

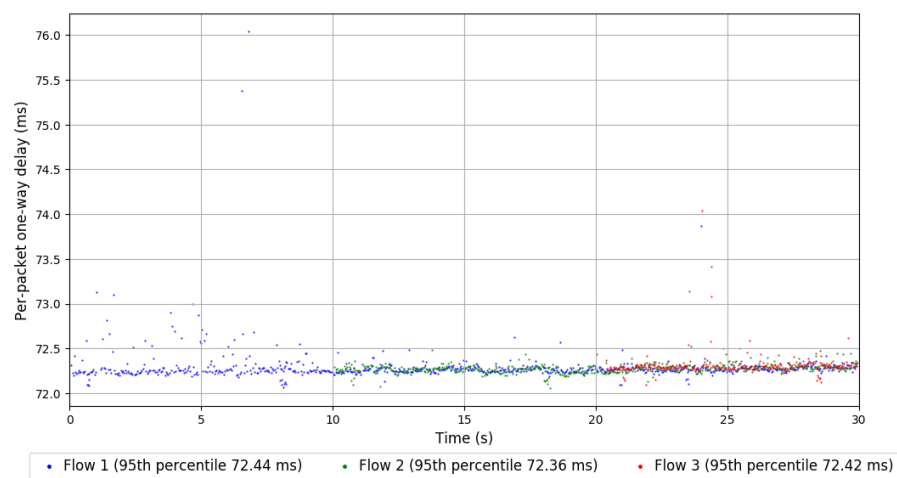
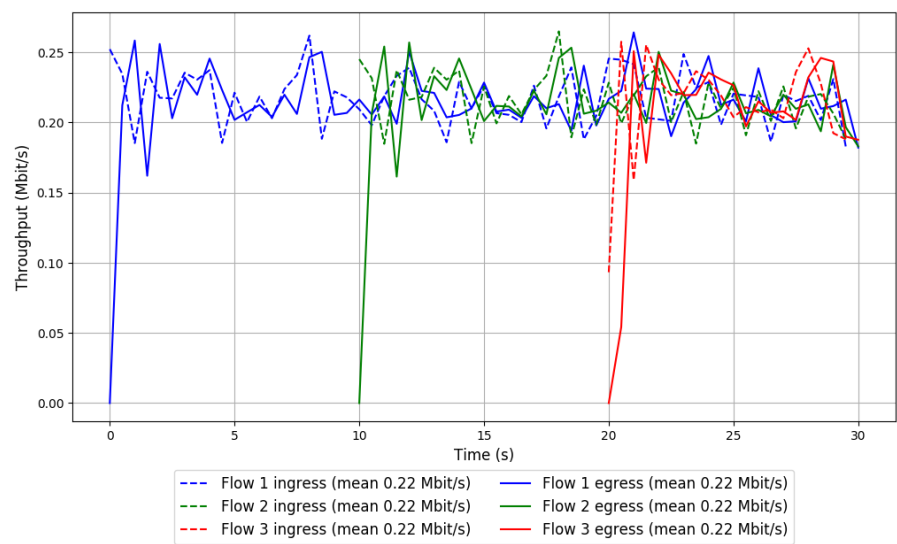
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 72.415 ms

Loss rate: 0.79%

Run 4: Report of SReAM — Data Link

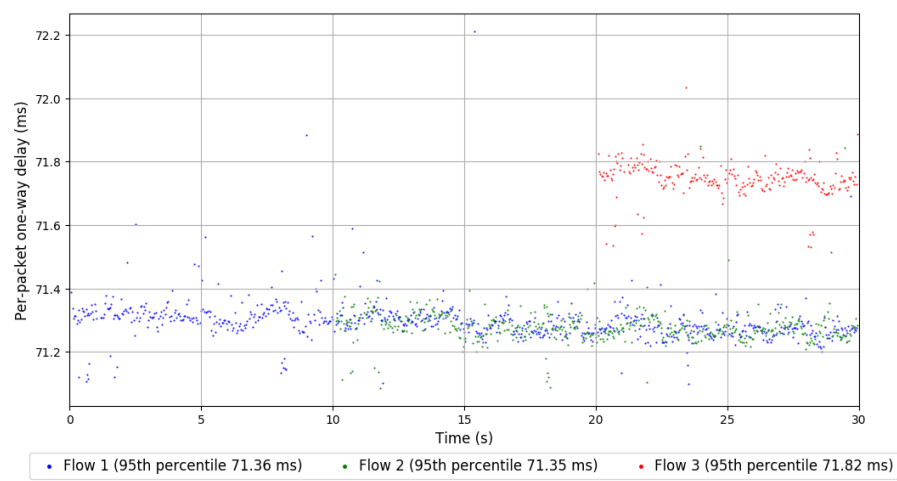
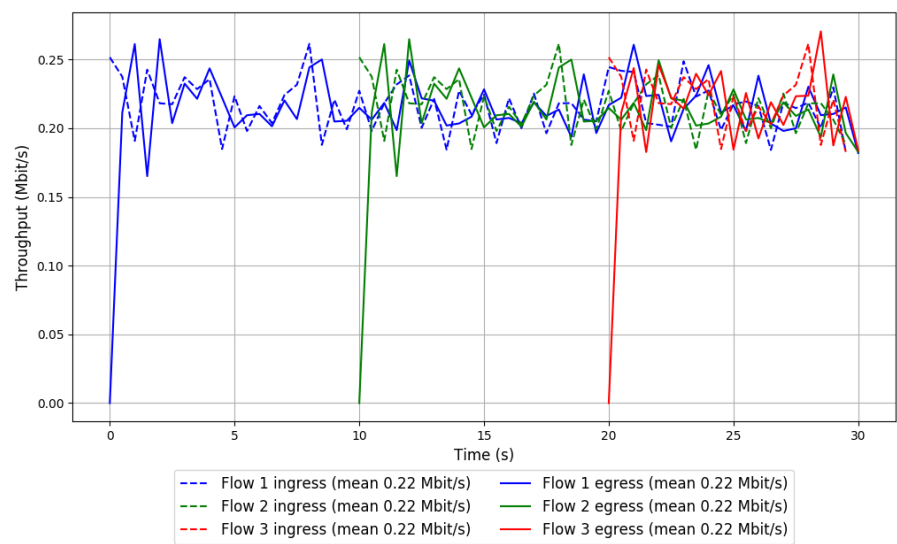


Run 5: Statistics of SReAM

Start at: 2019-01-22 04:50:23
End at: 2019-01-22 04:50:53
Local clock offset: -1.287 ms
Remote clock offset: -4.878 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 71.769 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.361 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.346 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 71.819 ms
Loss rate: 0.70%

Run 5: Report of SReAM — Data Link

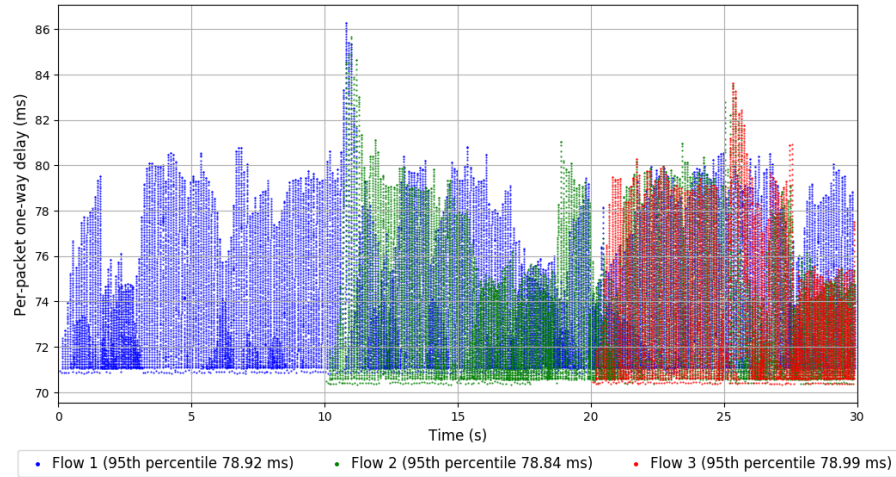
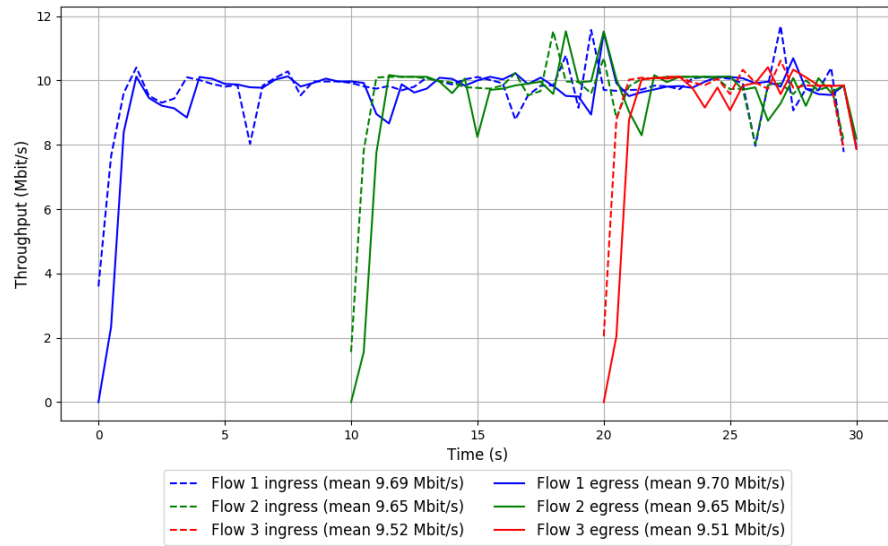


Run 1: Statistics of Sprout

Start at: 2019-01-22 02:42:57
End at: 2019-01-22 02:43:27
Local clock offset: -0.318 ms
Remote clock offset: -5.485 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.23 Mbit/s
95th percentile per-packet one-way delay: 78.911 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 9.70 Mbit/s
95th percentile per-packet one-way delay: 78.915 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 9.65 Mbit/s
95th percentile per-packet one-way delay: 78.842 ms
Loss rate: 0.49%
-- Flow 3:
Average throughput: 9.51 Mbit/s
95th percentile per-packet one-way delay: 78.986 ms
Loss rate: 1.05%

Run 1: Report of Sprout — Data Link

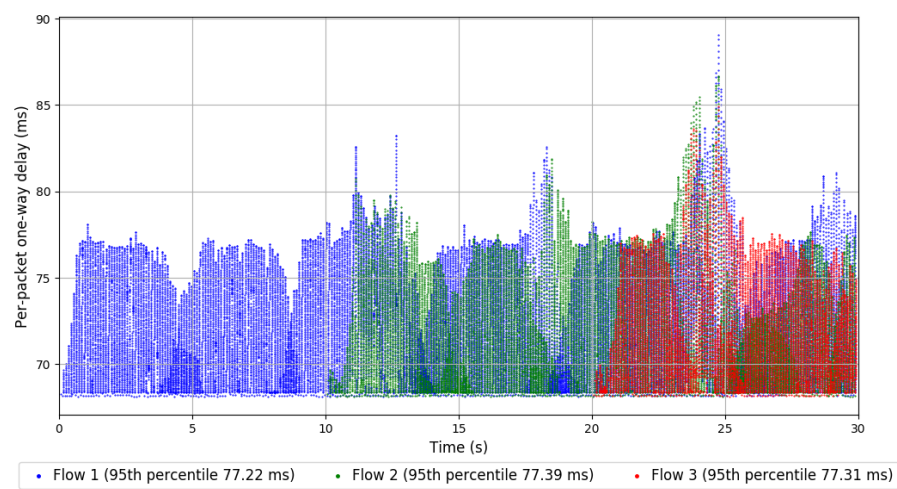
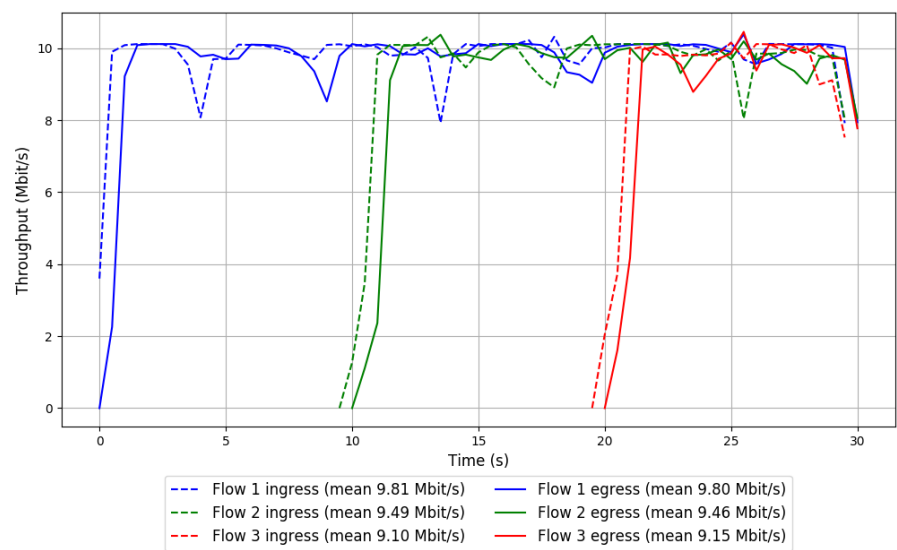


Run 2: Statistics of Sprout

Start at: 2019-01-22 03:12:47
End at: 2019-01-22 03:13:17
Local clock offset: -1.185 ms
Remote clock offset: -5.402 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.10 Mbit/s
95th percentile per-packet one-way delay: 77.296 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 9.80 Mbit/s
95th percentile per-packet one-way delay: 77.220 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 9.46 Mbit/s
95th percentile per-packet one-way delay: 77.390 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 9.15 Mbit/s
95th percentile per-packet one-way delay: 77.308 ms
Loss rate: 0.21%

Run 2: Report of Sprout — Data Link

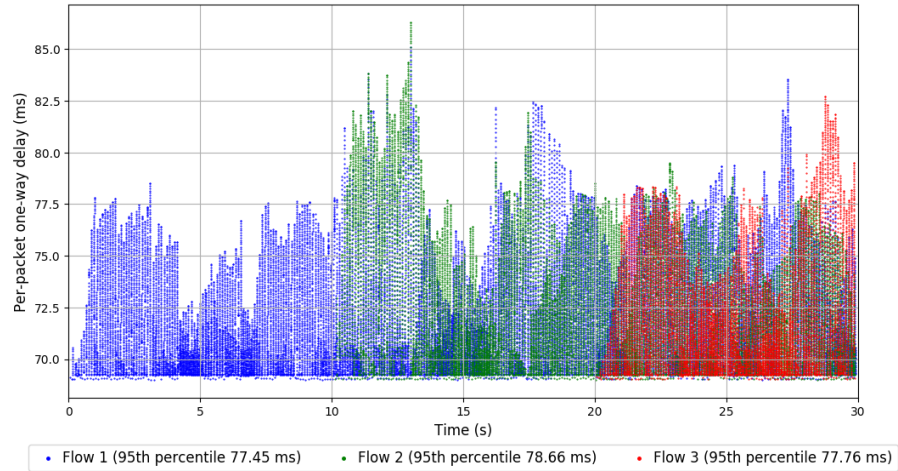
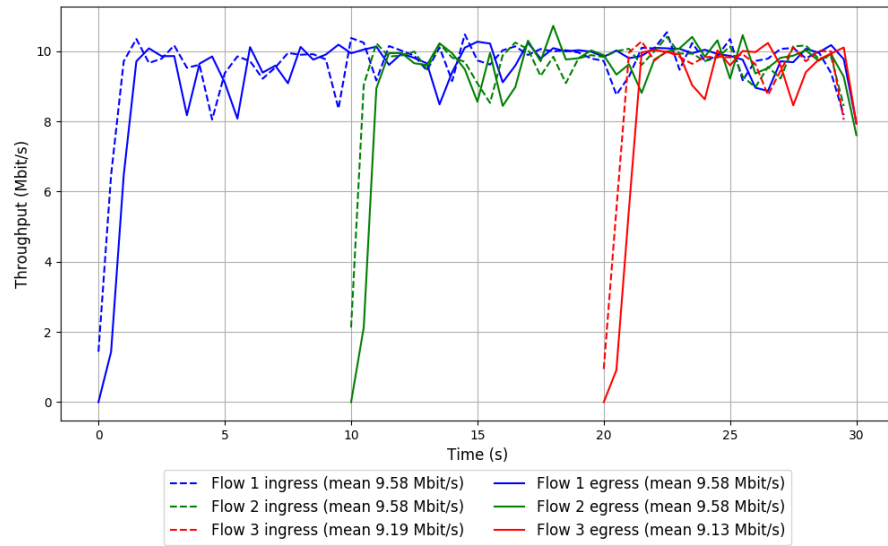


Run 3: Statistics of Sprout

Start at: 2019-01-22 03:42:29
End at: 2019-01-22 03:42:59
Local clock offset: -1.672 ms
Remote clock offset: -5.526 ms

```
# Below is generated by plot.py at 2019-01-22 05:13:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 77.834 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 77.455 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 78.660 ms
Loss rate: 0.50%
-- Flow 3:
Average throughput: 9.13 Mbit/s
95th percentile per-packet one-way delay: 77.757 ms
Loss rate: 1.11%
```

Run 3: Report of Sprout — Data Link

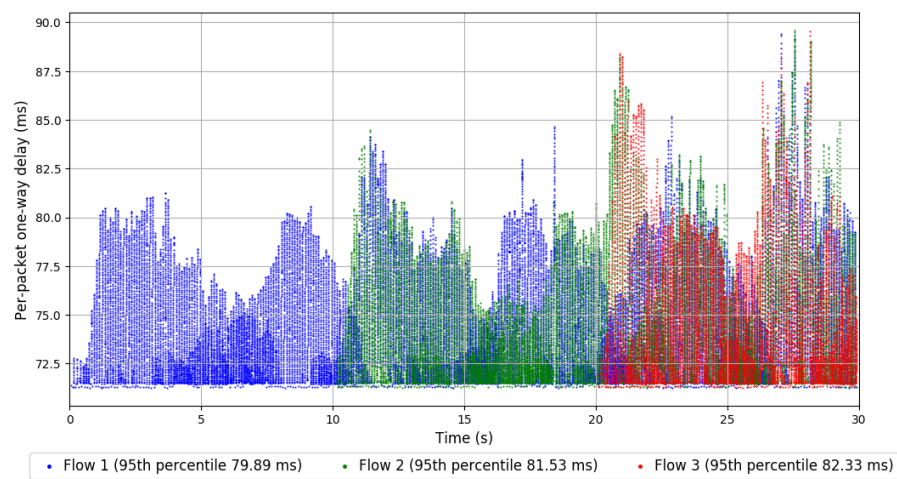
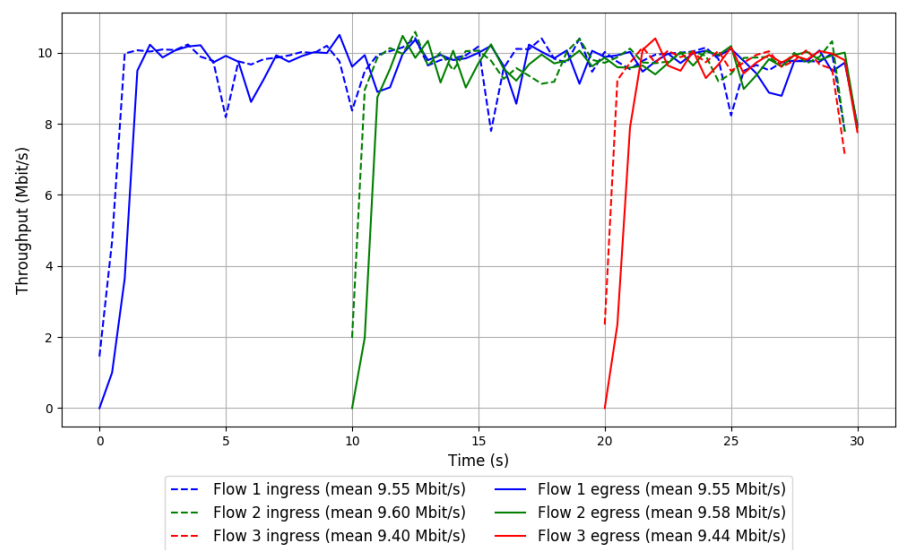


Run 4: Statistics of Sprout

Start at: 2019-01-22 04:14:14
End at: 2019-01-22 04:14:44
Local clock offset: 0.323 ms
Remote clock offset: -4.695 ms

Below is generated by plot.py at 2019-01-22 05:13:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.00 Mbit/s
95th percentile per-packet one-way delay: 80.711 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 9.55 Mbit/s
95th percentile per-packet one-way delay: 79.886 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 81.532 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 82.330 ms
Loss rate: 0.41%

Run 4: Report of Sprout — Data Link

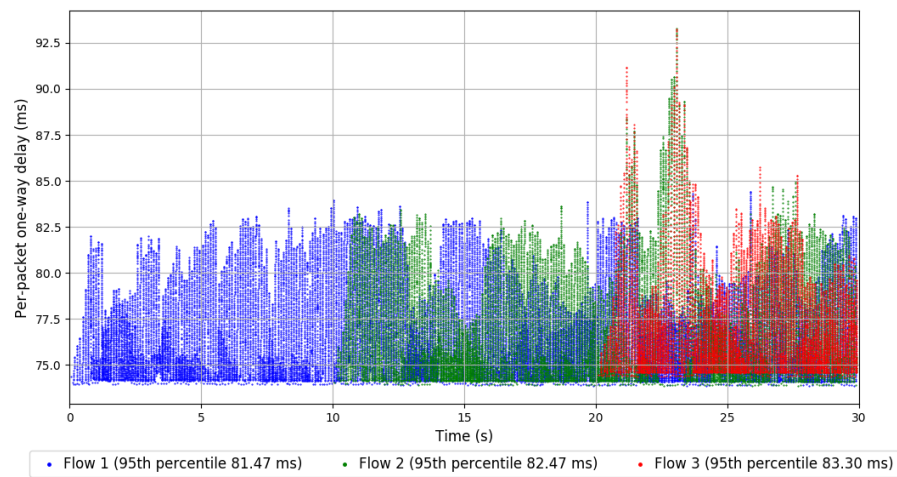
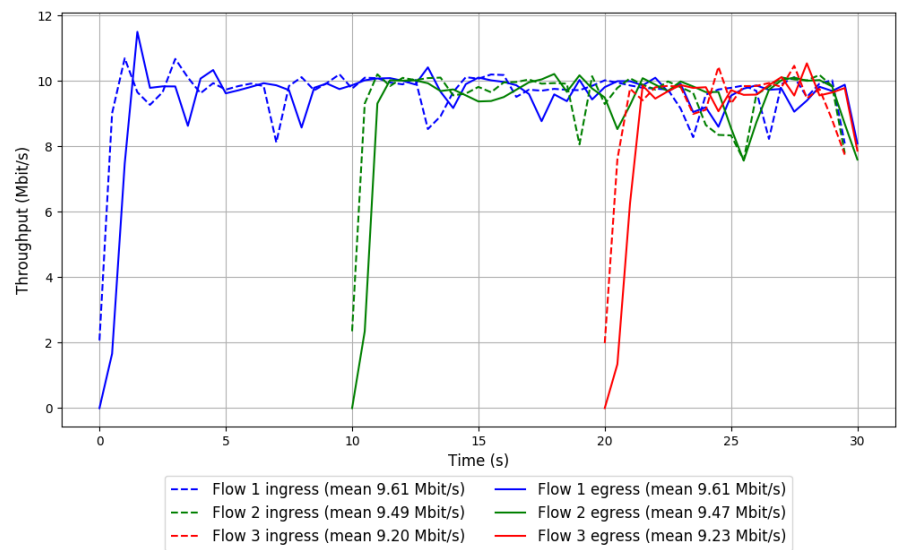


Run 5: Statistics of Sprout

Start at: 2019-01-22 04:46:27
End at: 2019-01-22 04:46:57
Local clock offset: 0.185 ms
Remote clock offset: -5.622 ms

```
# Below is generated by plot.py at 2019-01-22 05:13:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.93 Mbit/s
95th percentile per-packet one-way delay: 82.015 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 81.475 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 82.475 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 83.298 ms
Loss rate: 0.45%
```

Run 5: Report of Sprout — Data Link

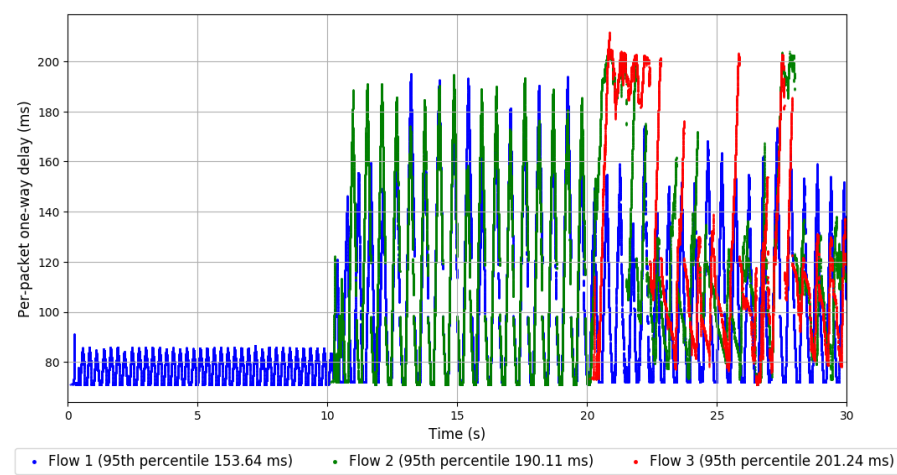
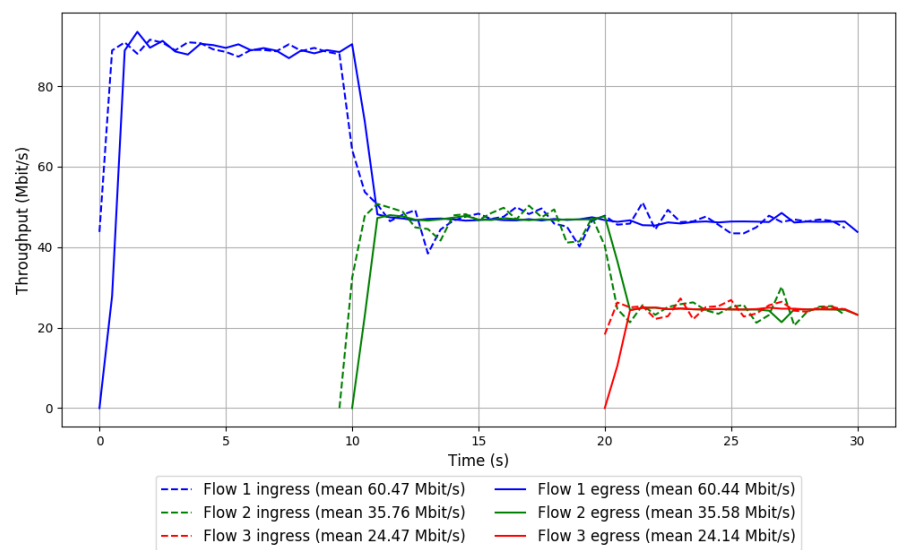


Run 1: Statistics of TaoVA-100x

Start at: 2019-01-22 02:55:36
End at: 2019-01-22 02:56:06
Local clock offset: 0.168 ms
Remote clock offset: -6.695 ms

Below is generated by plot.py at 2019-01-22 05:15:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 177.092 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 60.44 Mbit/s
95th percentile per-packet one-way delay: 153.640 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 35.58 Mbit/s
95th percentile per-packet one-way delay: 190.110 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 201.244 ms
Loss rate: 2.11%

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

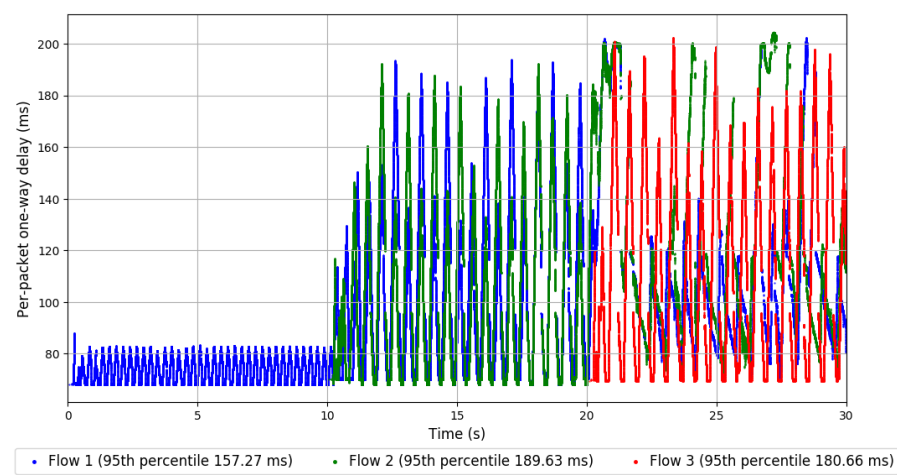
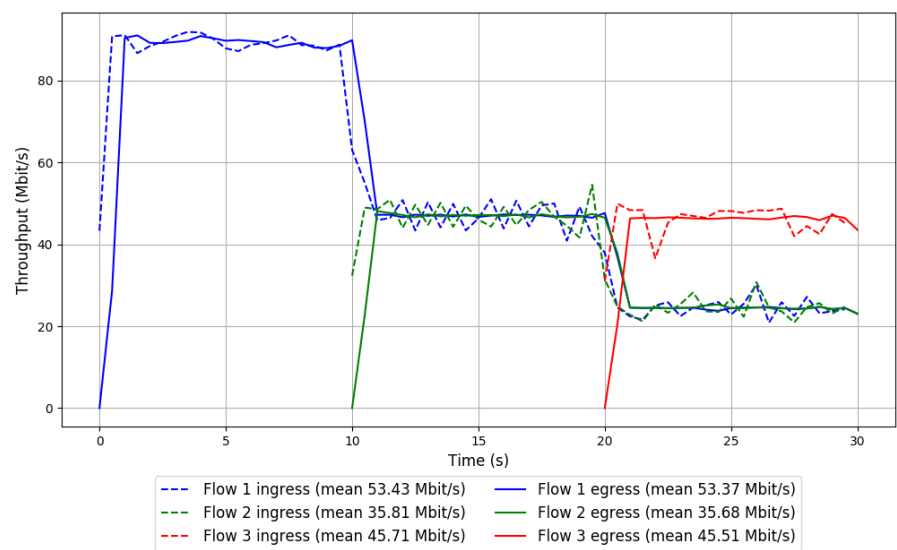


Run 2: Statistics of TaoVA-100x

Start at: 2019-01-22 03:25:16
End at: 2019-01-22 03:25:46
Local clock offset: -0.849 ms
Remote clock offset: -4.376 ms

Below is generated by plot.py at 2019-01-22 05:15:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.15 Mbit/s
95th percentile per-packet one-way delay: 176.090 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 53.37 Mbit/s
95th percentile per-packet one-way delay: 157.270 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 35.68 Mbit/s
95th percentile per-packet one-way delay: 189.629 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 45.51 Mbit/s
95th percentile per-packet one-way delay: 180.662 ms
Loss rate: 1.23%

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

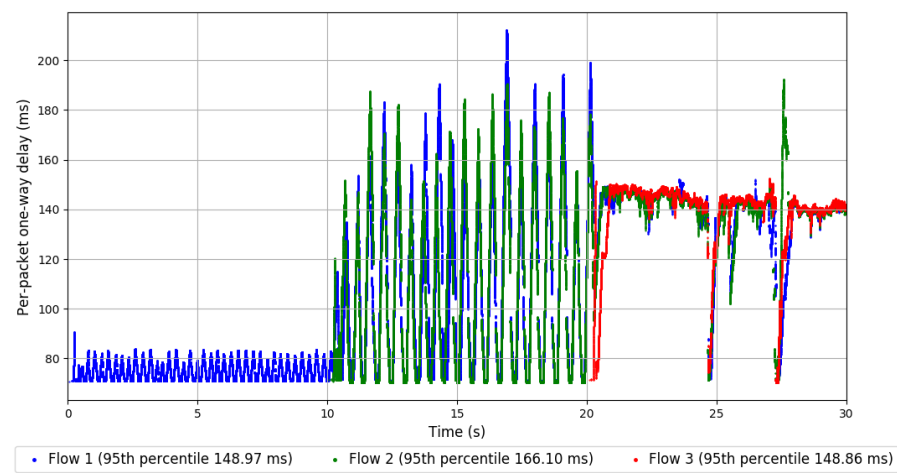
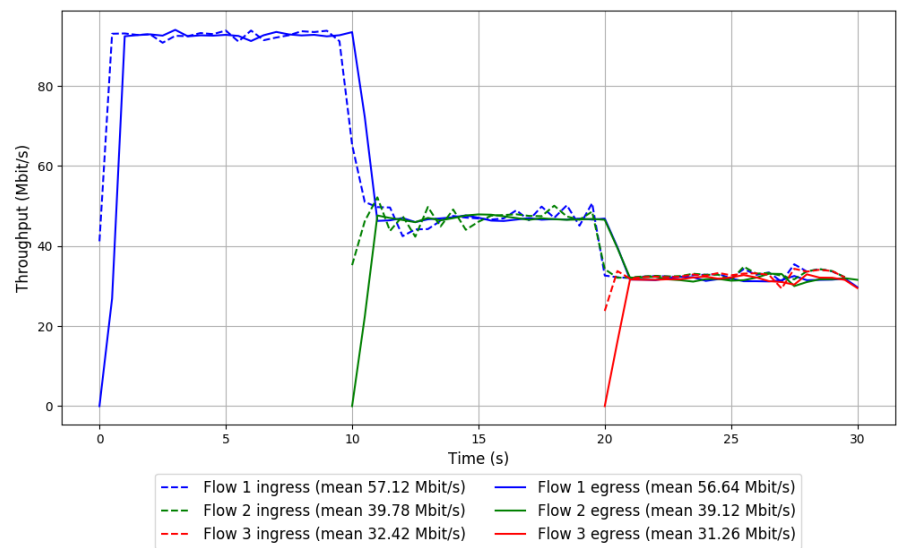


Run 3: Statistics of TaoVA-100x

Start at: 2019-01-22 03:56:12
End at: 2019-01-22 03:56:42
Local clock offset: -0.922 ms
Remote clock offset: -5.247 ms

Below is generated by plot.py at 2019-01-22 05:15:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 93.01 Mbit/s
95th percentile per-packet one-way delay: 153.586 ms
Loss rate: 1.74%
-- Flow 1:
Average throughput: 56.64 Mbit/s
95th percentile per-packet one-way delay: 148.967 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 39.12 Mbit/s
95th percentile per-packet one-way delay: 166.100 ms
Loss rate: 2.06%
-- Flow 3:
Average throughput: 31.26 Mbit/s
95th percentile per-packet one-way delay: 148.863 ms
Loss rate: 4.33%

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

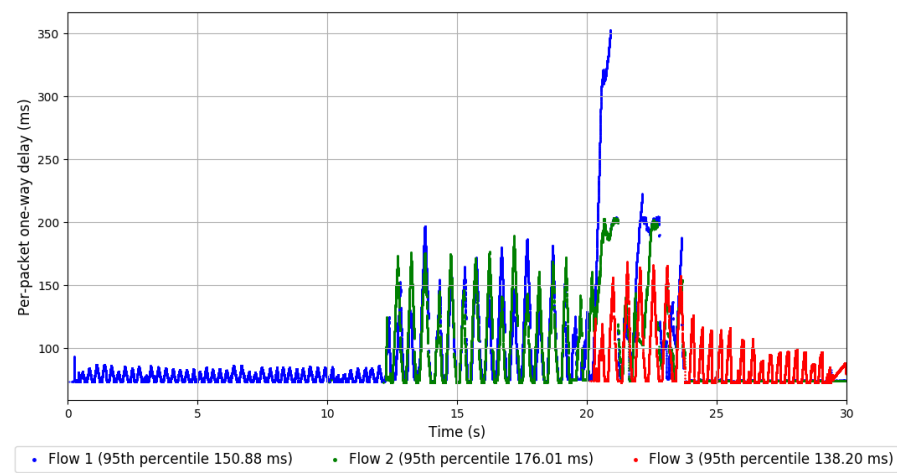
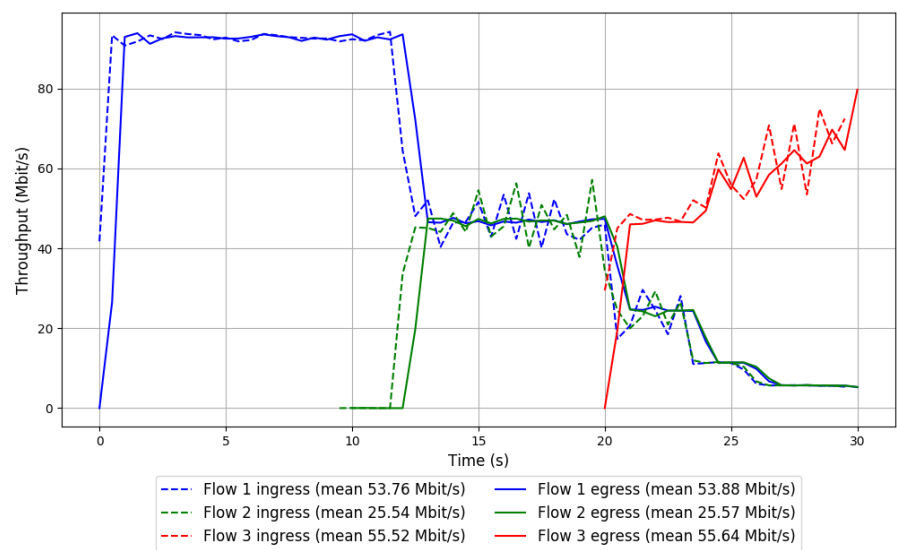


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-22 04:28:16
End at: 2019-01-22 04:28:46
Local clock offset: 0.189 ms
Remote clock offset: -4.333 ms

Below is generated by plot.py at 2019-01-22 05:15:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.30 Mbit/s
95th percentile per-packet one-way delay: 157.107 ms
Loss rate: 0.20%
-- Flow 1:
Average throughput: 53.88 Mbit/s
95th percentile per-packet one-way delay: 150.877 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 25.57 Mbit/s
95th percentile per-packet one-way delay: 176.010 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 55.64 Mbit/s
95th percentile per-packet one-way delay: 138.199 ms
Loss rate: 0.61%

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

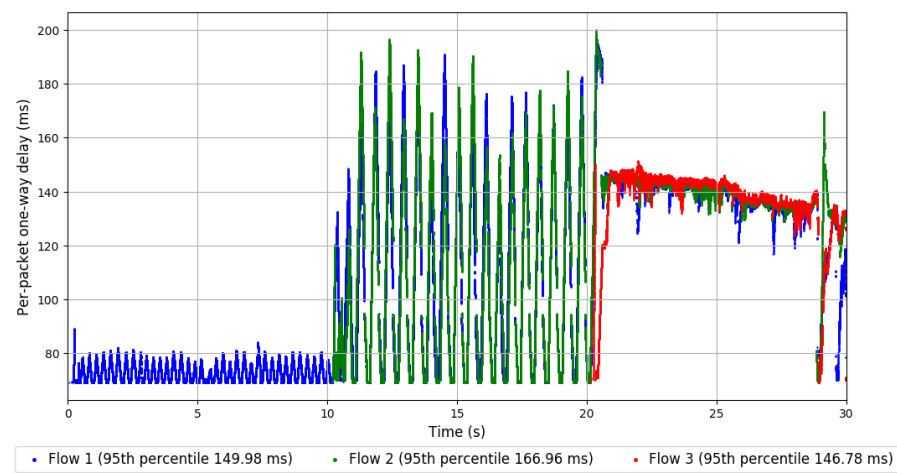
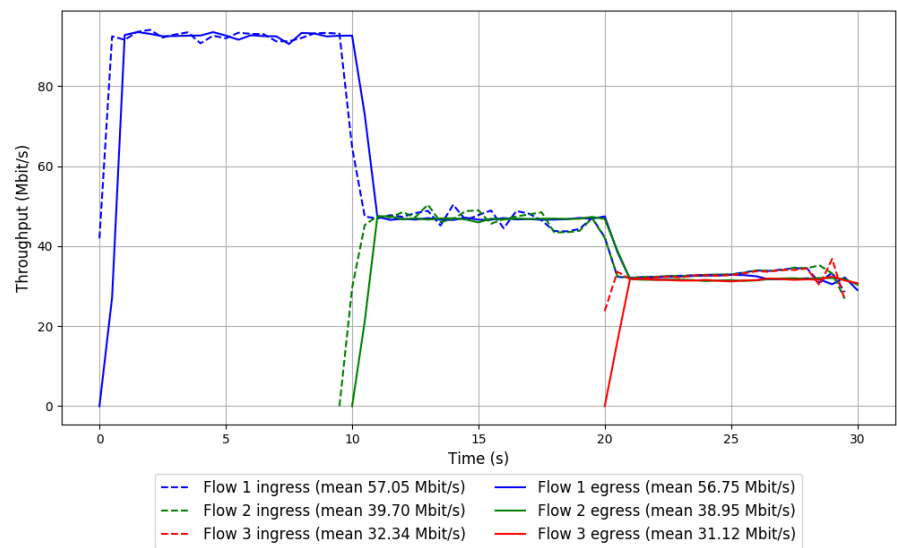


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-22 05:00:03
End at: 2019-01-22 05:00:33
Local clock offset: -1.178 ms
Remote clock offset: -3.541 ms

Below is generated by plot.py at 2019-01-22 05:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.97 Mbit/s
95th percentile per-packet one-way delay: 155.575 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 56.75 Mbit/s
95th percentile per-packet one-way delay: 149.984 ms
Loss rate: 0.79%
-- Flow 2:
Average throughput: 38.95 Mbit/s
95th percentile per-packet one-way delay: 166.962 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 31.12 Mbit/s
95th percentile per-packet one-way delay: 146.781 ms
Loss rate: 4.56%

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

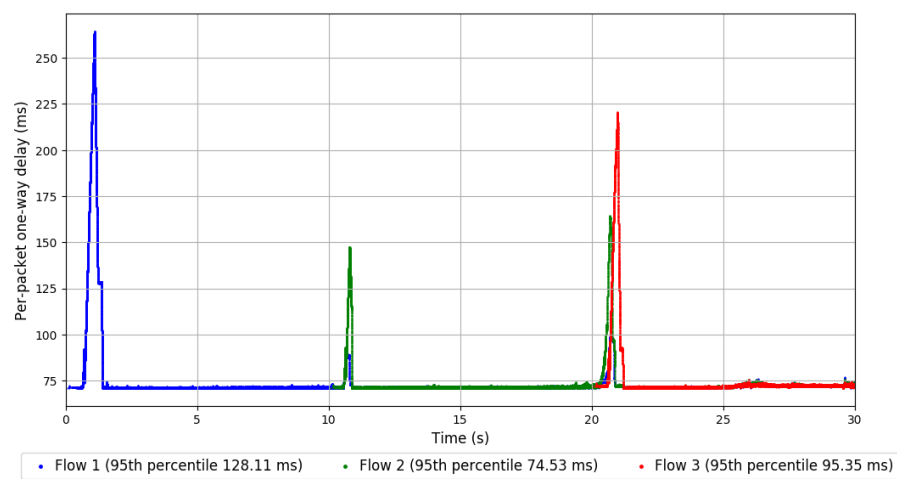
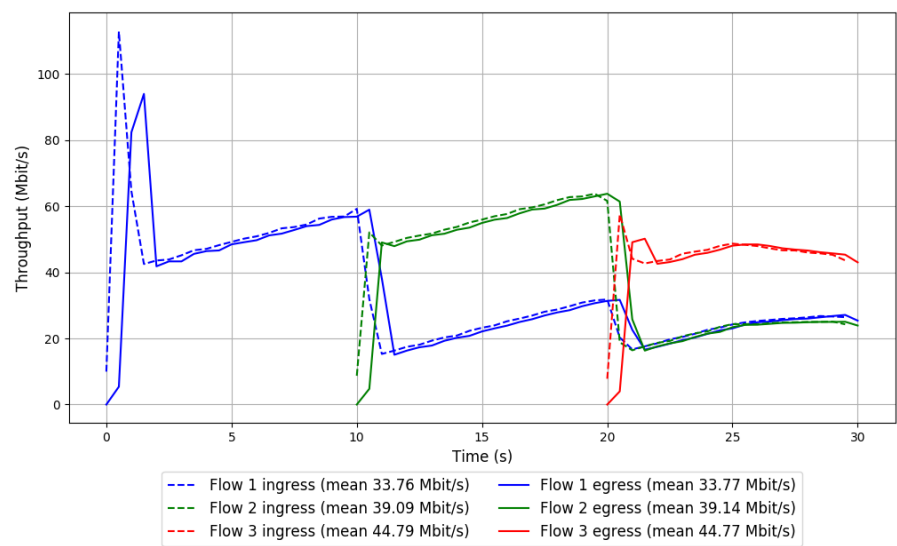


Run 1: Statistics of TCP Vegas

Start at: 2019-01-22 02:38:57
End at: 2019-01-22 02:39:27
Local clock offset: -1.253 ms
Remote clock offset: -6.899 ms

Below is generated by plot.py at 2019-01-22 05:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 74.61 Mbit/s
95th percentile per-packet one-way delay: 92.680 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 33.77 Mbit/s
95th percentile per-packet one-way delay: 128.107 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 39.14 Mbit/s
95th percentile per-packet one-way delay: 74.528 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 44.77 Mbit/s
95th percentile per-packet one-way delay: 95.350 ms
Loss rate: 0.83%

Run 1: Report of TCP Vegas — Data Link

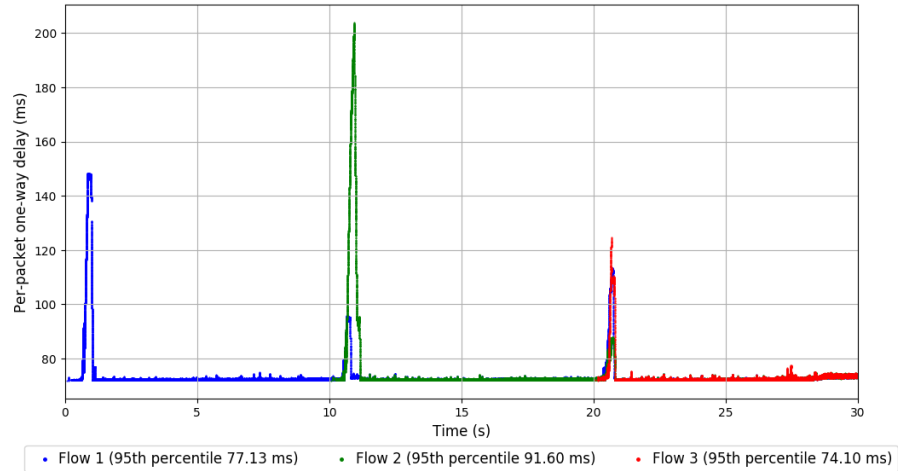
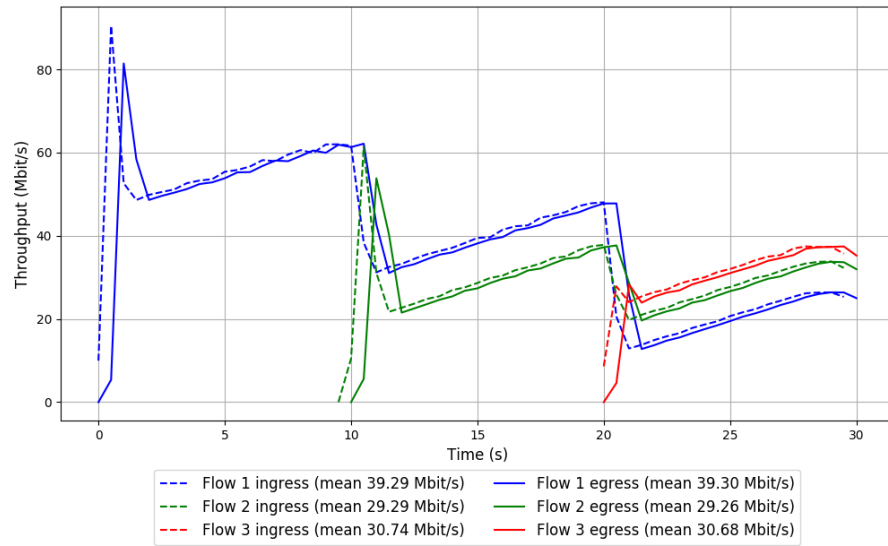


Run 2: Statistics of TCP Vegas

Start at: 2019-01-22 03:08:36
End at: 2019-01-22 03:09:06
Local clock offset: 0.429 ms
Remote clock offset: -7.517 ms

Below is generated by plot.py at 2019-01-22 05:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.92 Mbit/s
95th percentile per-packet one-way delay: 79.832 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 77.128 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 29.26 Mbit/s
95th percentile per-packet one-way delay: 91.600 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 30.68 Mbit/s
95th percentile per-packet one-way delay: 74.104 ms
Loss rate: 0.97%

Run 2: Report of TCP Vegas — Data Link

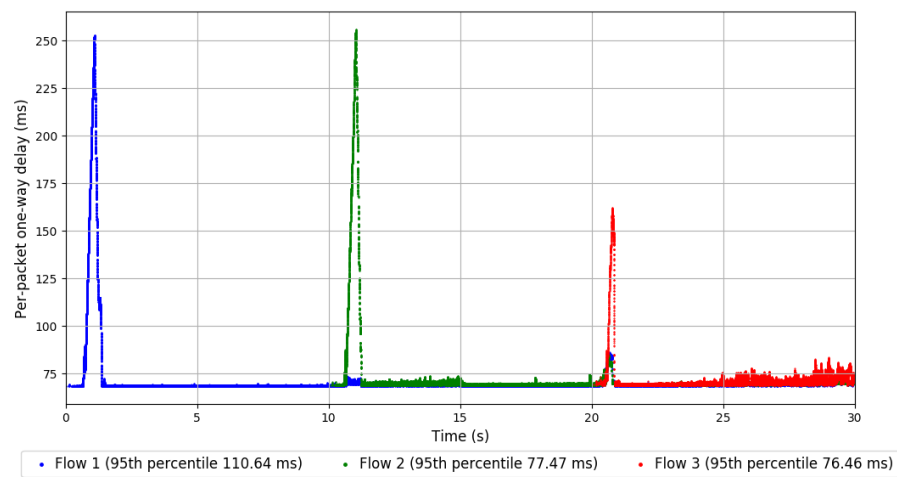
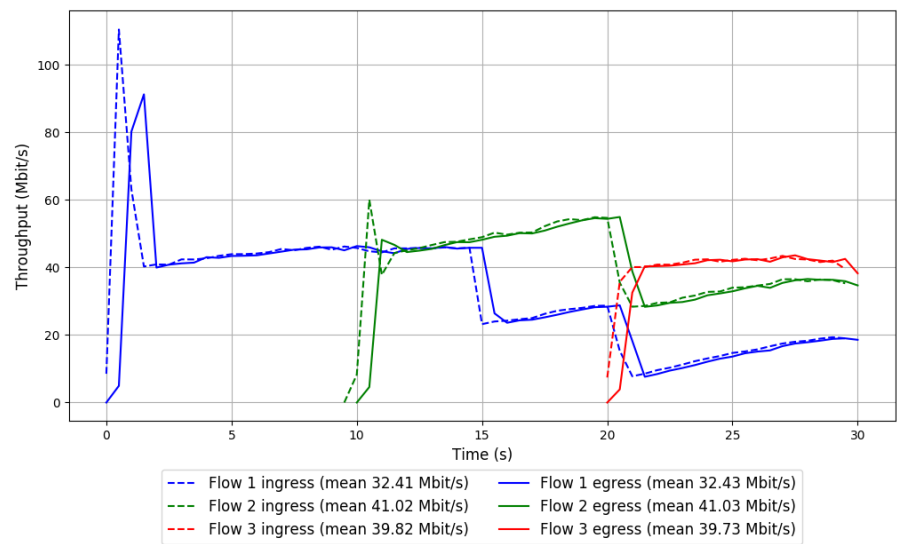


Run 3: Statistics of TCP Vegas

Start at: 2019-01-22 03:38:02
End at: 2019-01-22 03:38:32
Local clock offset: -1.28 ms
Remote clock offset: -4.335 ms

Below is generated by plot.py at 2019-01-22 05:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.88 Mbit/s
95th percentile per-packet one-way delay: 81.174 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 32.43 Mbit/s
95th percentile per-packet one-way delay: 110.638 ms
Loss rate: 0.19%
-- Flow 2:
Average throughput: 41.03 Mbit/s
95th percentile per-packet one-way delay: 77.472 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 39.73 Mbit/s
95th percentile per-packet one-way delay: 76.457 ms
Loss rate: 0.99%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-22 04:09:57

End at: 2019-01-22 04:10:27

Local clock offset: -1.545 ms

Remote clock offset: -5.36 ms

Below is generated by plot.py at 2019-01-22 05:15:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.71 Mbit/s

95th percentile per-packet one-way delay: 82.164 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 35.04 Mbit/s

95th percentile per-packet one-way delay: 123.965 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 33.92 Mbit/s

95th percentile per-packet one-way delay: 80.963 ms

Loss rate: 0.32%

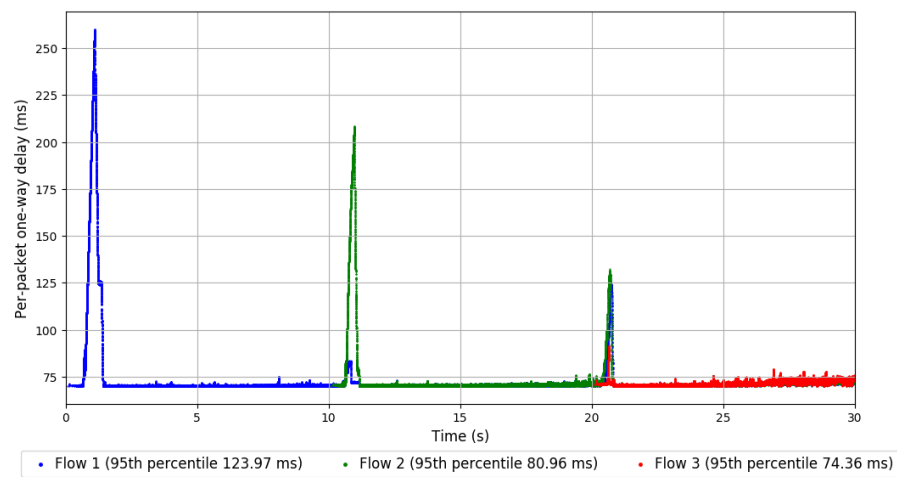
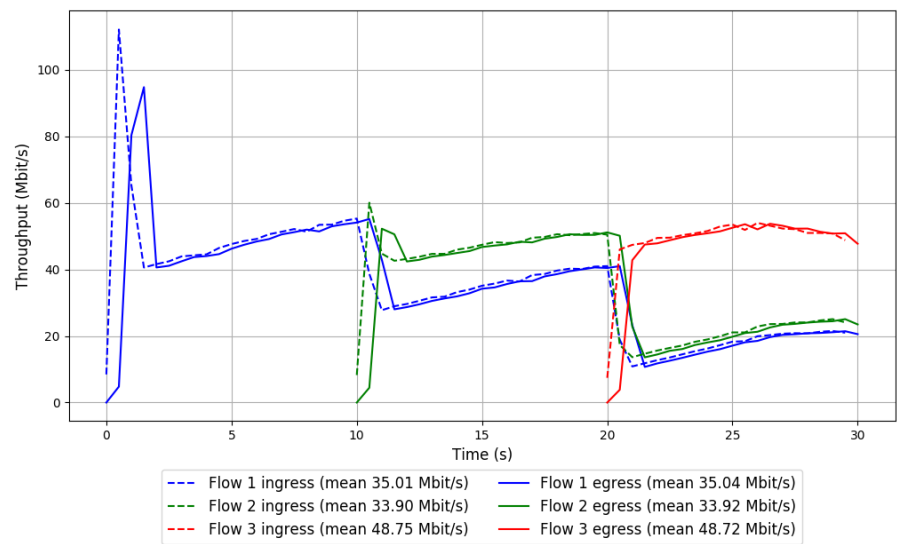
-- Flow 3:

Average throughput: 48.72 Mbit/s

95th percentile per-packet one-way delay: 74.356 ms

Loss rate: 0.87%

Run 4: Report of TCP Vegas — Data Link

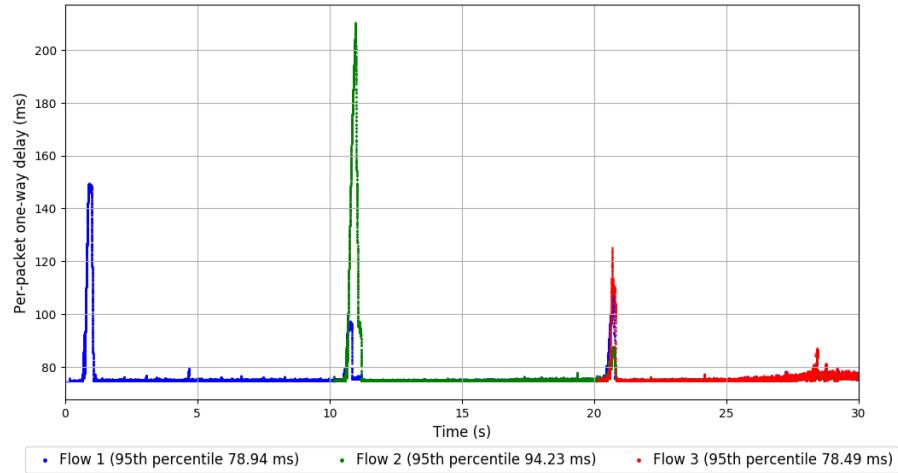
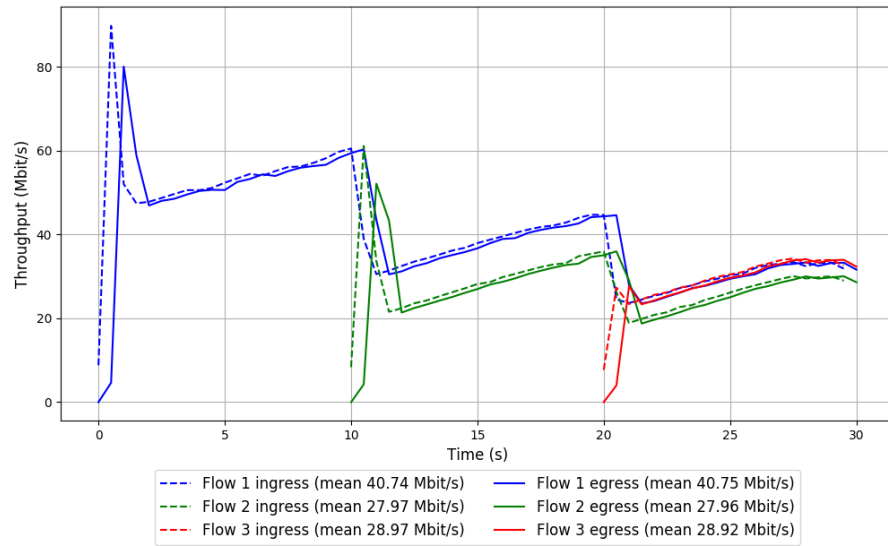


Run 5: Statistics of TCP Vegas

Start at: 2019-01-22 04:42:24
End at: 2019-01-22 04:42:54
Local clock offset: 0.682 ms
Remote clock offset: -5.671 ms

Below is generated by plot.py at 2019-01-22 05:15:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.92 Mbit/s
95th percentile per-packet one-way delay: 81.621 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 40.75 Mbit/s
95th percentile per-packet one-way delay: 78.941 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 27.96 Mbit/s
95th percentile per-packet one-way delay: 94.229 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 78.490 ms
Loss rate: 0.96%

Run 5: Report of TCP Vegas — Data Link

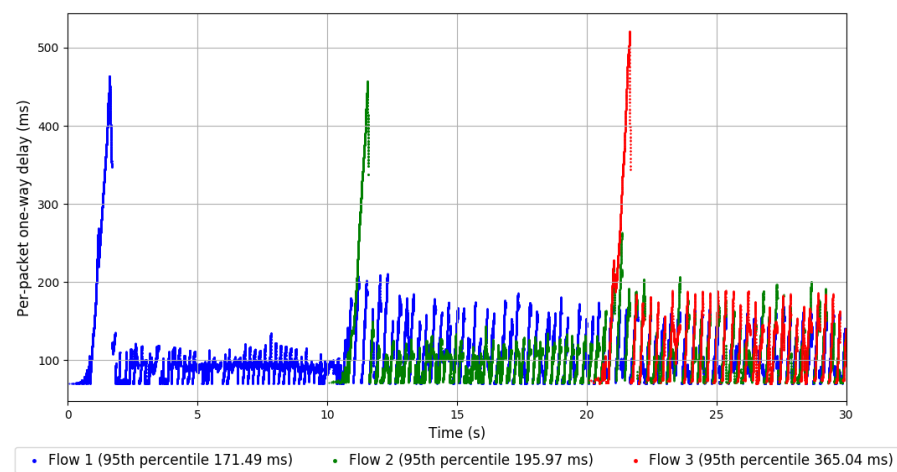
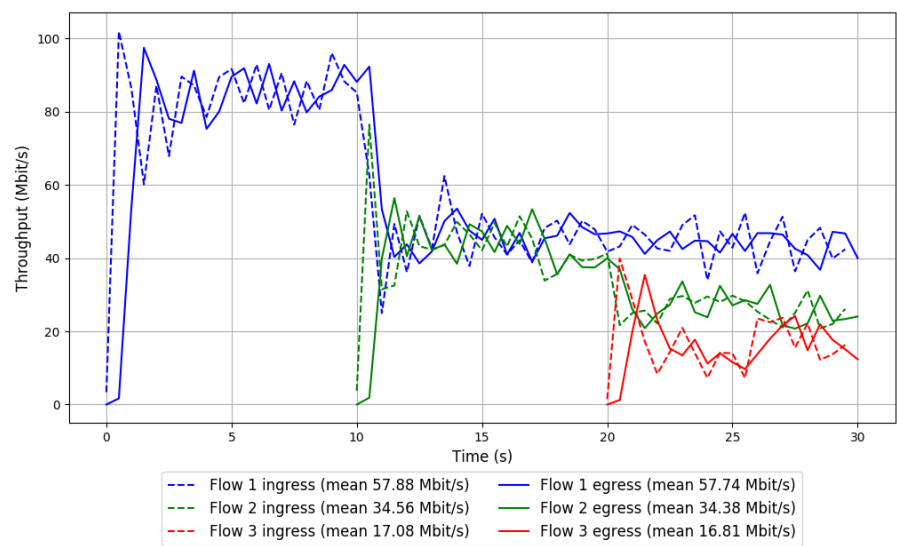


Run 1: Statistics of Verus

Start at: 2019-01-22 02:37:32
End at: 2019-01-22 02:38:02
Local clock offset: -1.98 ms
Remote clock offset: -6.568 ms

Below is generated by plot.py at 2019-01-22 05:15:27
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.16 Mbit/s
95th percentile per-packet one-way delay: 188.772 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 57.74 Mbit/s
95th percentile per-packet one-way delay: 171.487 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 34.38 Mbit/s
95th percentile per-packet one-way delay: 195.970 ms
Loss rate: 0.67%
-- Flow 3:
Average throughput: 16.81 Mbit/s
95th percentile per-packet one-way delay: 365.043 ms
Loss rate: 1.63%

Run 1: Report of Verus — Data Link

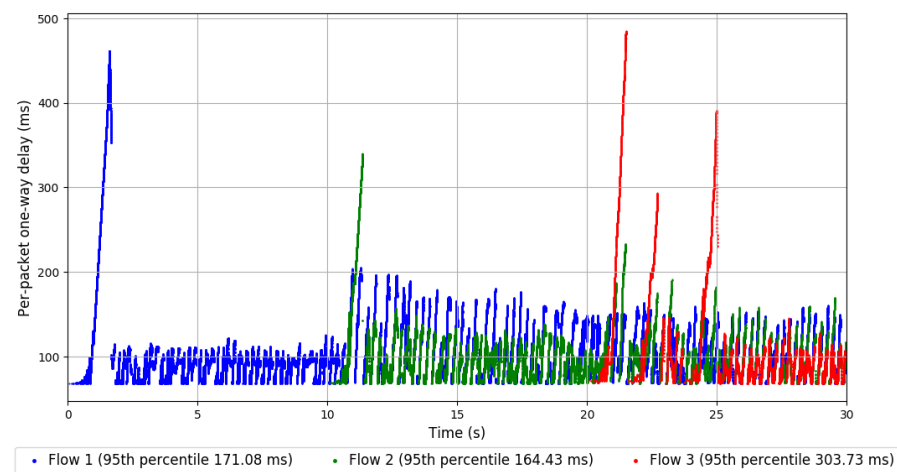
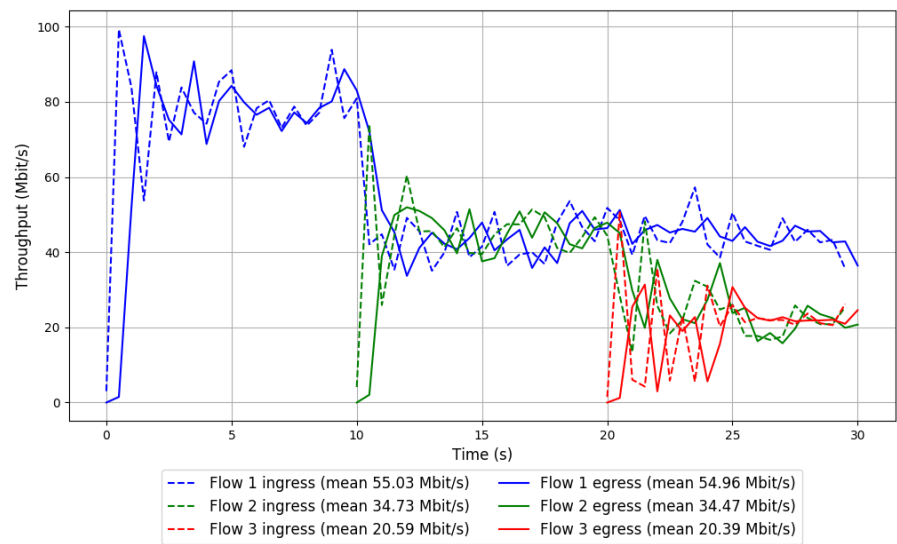


Run 2: Statistics of Verus

Start at: 2019-01-22 03:07:09
End at: 2019-01-22 03:07:39
Local clock offset: -1.241 ms
Remote clock offset: -5.357 ms

Below is generated by plot.py at 2019-01-22 05:16:02
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.62 Mbit/s
95th percentile per-packet one-way delay: 186.410 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 54.96 Mbit/s
95th percentile per-packet one-way delay: 171.079 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 34.47 Mbit/s
95th percentile per-packet one-way delay: 164.428 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 20.39 Mbit/s
95th percentile per-packet one-way delay: 303.733 ms
Loss rate: 1.74%

Run 2: Report of Verus — Data Link

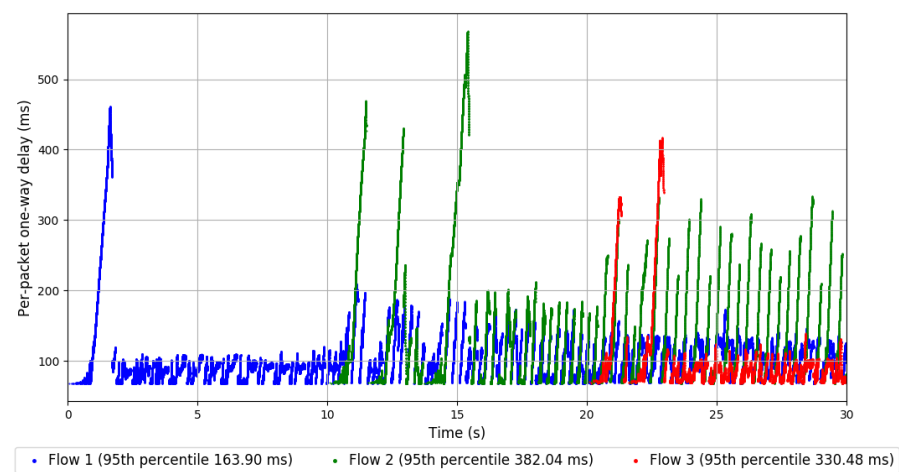
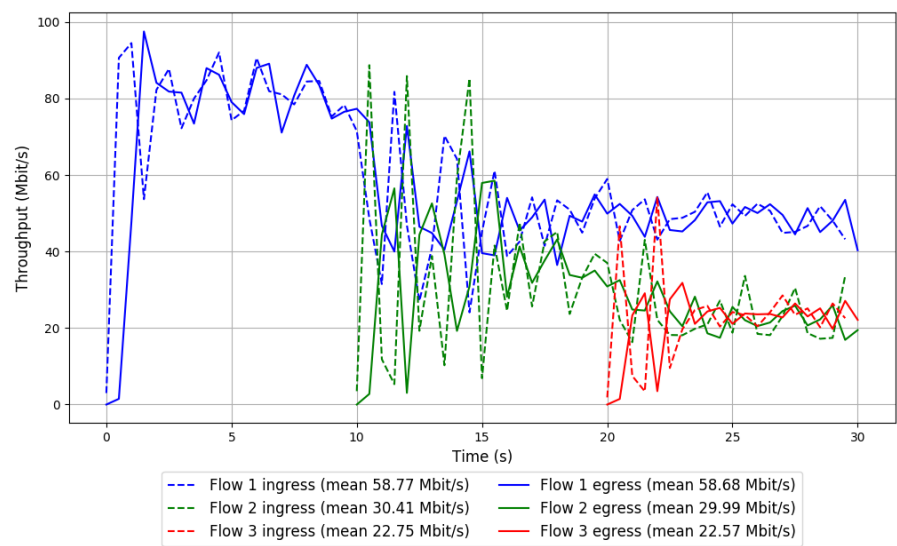


Run 3: Statistics of Verus

Start at: 2019-01-22 03:36:30
End at: 2019-01-22 03:37:00
Local clock offset: -1.567 ms
Remote clock offset: -4.357 ms

Below is generated by plot.py at 2019-01-22 05:16:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 86.08 Mbit/s
95th percentile per-packet one-way delay: 283.530 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 58.68 Mbit/s
95th percentile per-packet one-way delay: 163.903 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 382.038 ms
Loss rate: 1.66%
-- Flow 3:
Average throughput: 22.57 Mbit/s
95th percentile per-packet one-way delay: 330.478 ms
Loss rate: 1.40%

Run 3: Report of Verus — Data Link

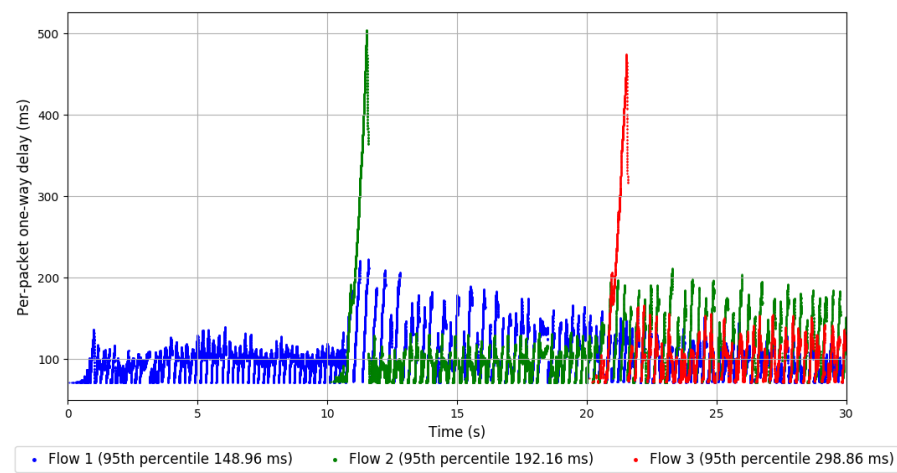
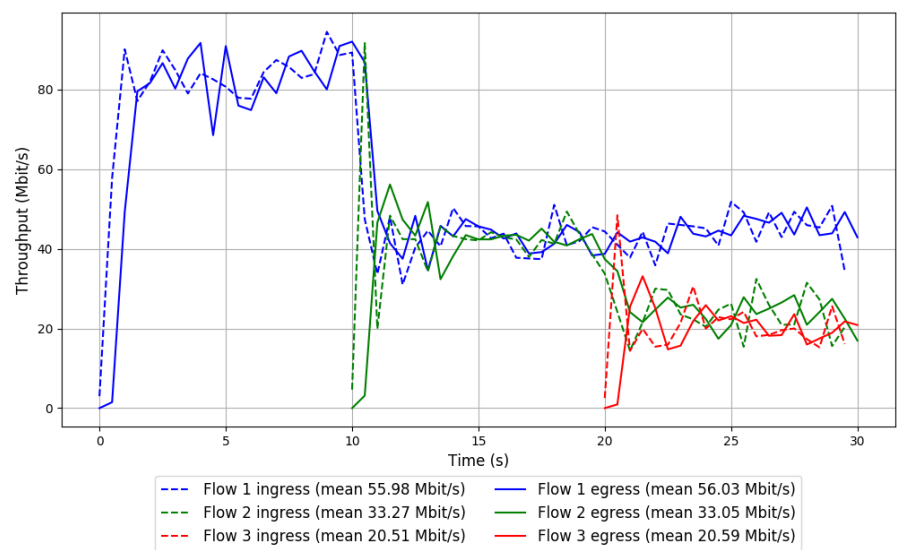


Run 4: Statistics of Verus

Start at: 2019-01-22 04:08:20
End at: 2019-01-22 04:08:50
Local clock offset: -0.071 ms
Remote clock offset: -4.471 ms

Below is generated by plot.py at 2019-01-22 05:16:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 84.81 Mbit/s
95th percentile per-packet one-way delay: 170.278 ms
Loss rate: 0.26%
-- Flow 1:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 148.957 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 33.05 Mbit/s
95th percentile per-packet one-way delay: 192.160 ms
Loss rate: 0.45%
-- Flow 3:
Average throughput: 20.59 Mbit/s
95th percentile per-packet one-way delay: 298.860 ms
Loss rate: 0.39%

Run 4: Report of Verus — Data Link

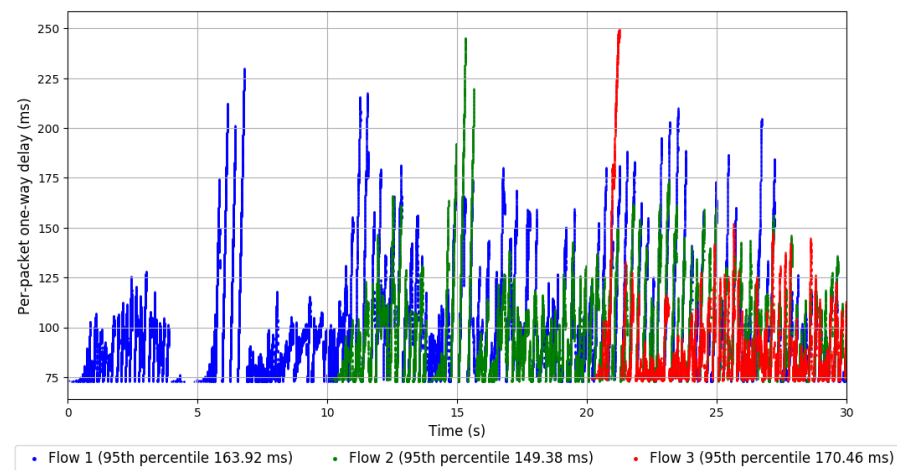
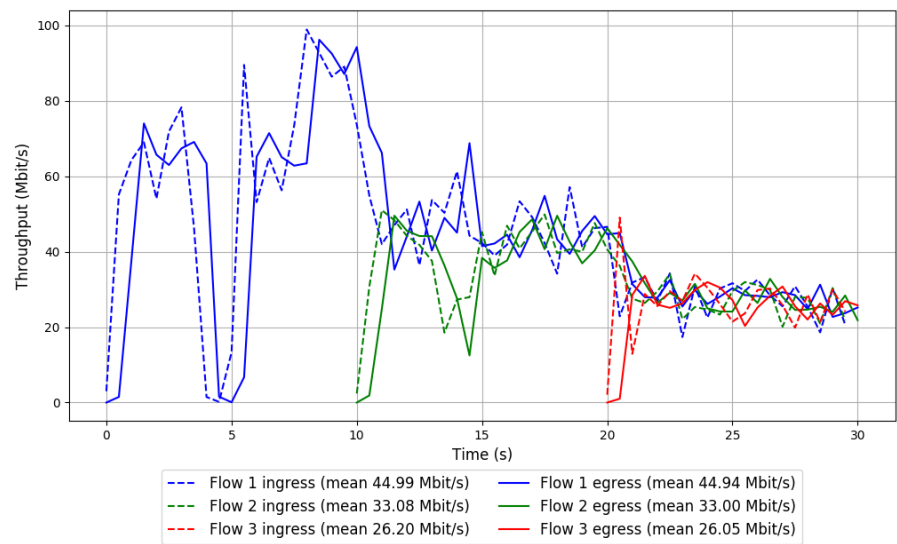


Run 5: Statistics of Verus

Start at: 2019-01-22 04:40:41
End at: 2019-01-22 04:41:11
Local clock offset: -0.795 ms
Remote clock offset: -5.339 ms

Below is generated by plot.py at 2019-01-22 05:16:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 75.50 Mbit/s
95th percentile per-packet one-way delay: 160.204 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 44.94 Mbit/s
95th percentile per-packet one-way delay: 163.919 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 33.00 Mbit/s
95th percentile per-packet one-way delay: 149.379 ms
Loss rate: 0.63%
-- Flow 3:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 170.461 ms
Loss rate: 1.18%

Run 5: Report of Verus — Data Link



Run 1: Statistics of PCC-Vivace

Start at: 2019-01-22 02:52:50

End at: 2019-01-22 02:53:20

Local clock offset: 0.857 ms

Remote clock offset: -8.2 ms

Below is generated by plot.py at 2019-01-22 05:16:16

Datalink statistics

-- Total of 3 flows:

Average throughput: 68.43 Mbit/s

95th percentile per-packet one-way delay: 1820.421 ms

Loss rate: 5.48%

-- Flow 1:

Average throughput: 47.75 Mbit/s

95th percentile per-packet one-way delay: 1915.729 ms

Loss rate: 7.38%

-- Flow 2:

Average throughput: 19.55 Mbit/s

95th percentile per-packet one-way delay: 80.444 ms

Loss rate: 0.56%

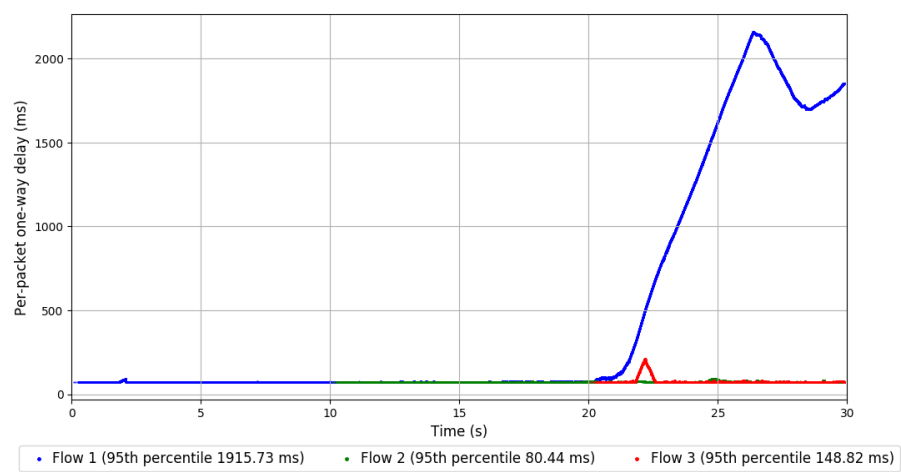
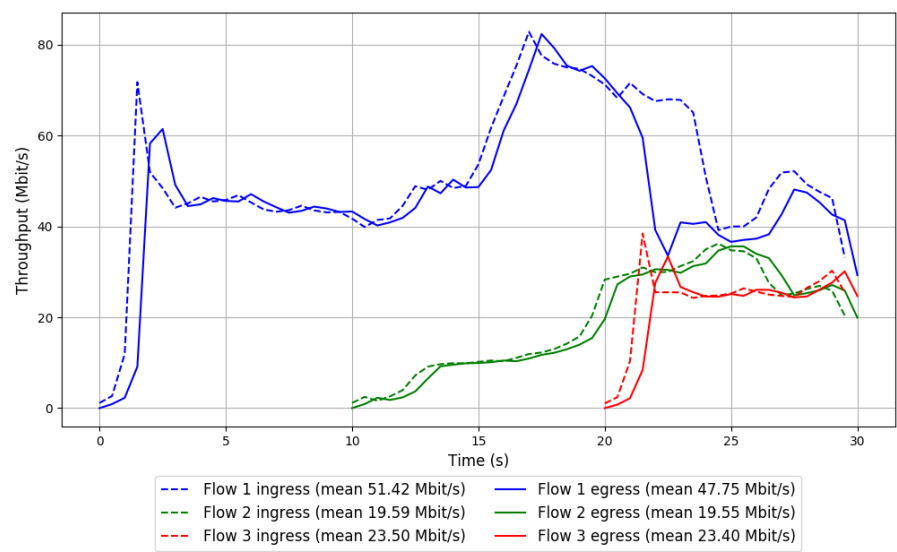
-- Flow 3:

Average throughput: 23.40 Mbit/s

95th percentile per-packet one-way delay: 148.825 ms

Loss rate: 1.21%

Run 1: Report of PCC-Vivace — Data Link

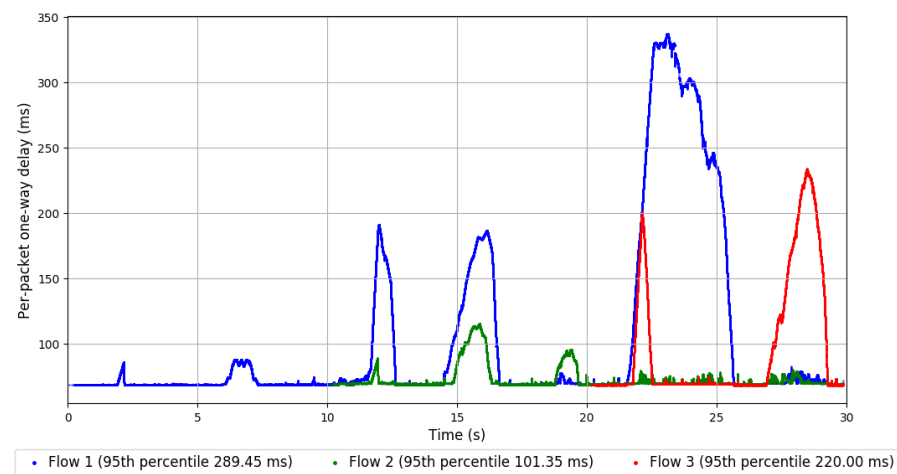
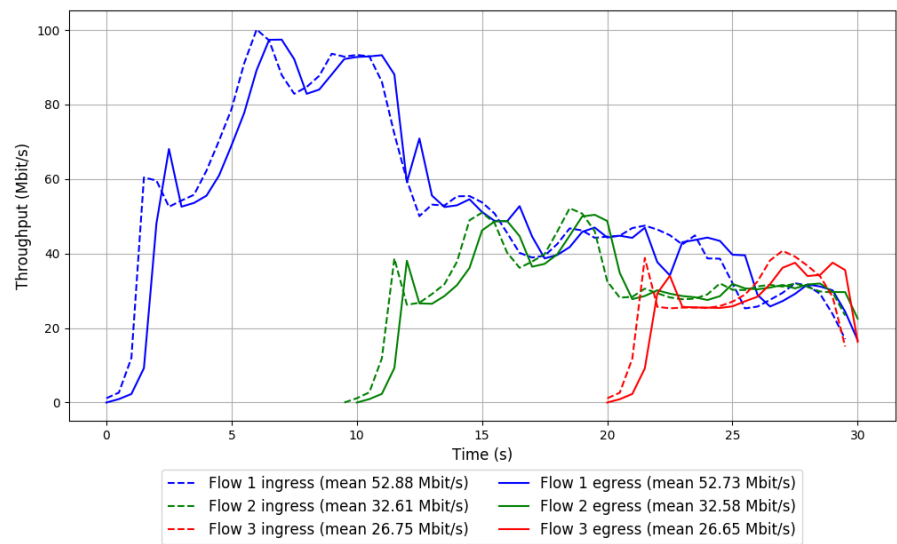


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-22 03:22:34
End at: 2019-01-22 03:23:04
Local clock offset: -1.579 ms
Remote clock offset: -5.021 ms

Below is generated by plot.py at 2019-01-22 05:16:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.14 Mbit/s
95th percentile per-packet one-way delay: 228.587 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 289.446 ms
Loss rate: 0.53%
-- Flow 2:
Average throughput: 32.58 Mbit/s
95th percentile per-packet one-way delay: 101.349 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 26.65 Mbit/s
95th percentile per-packet one-way delay: 220.000 ms
Loss rate: 1.13%

Run 2: Report of PCC-Vivace — Data Link

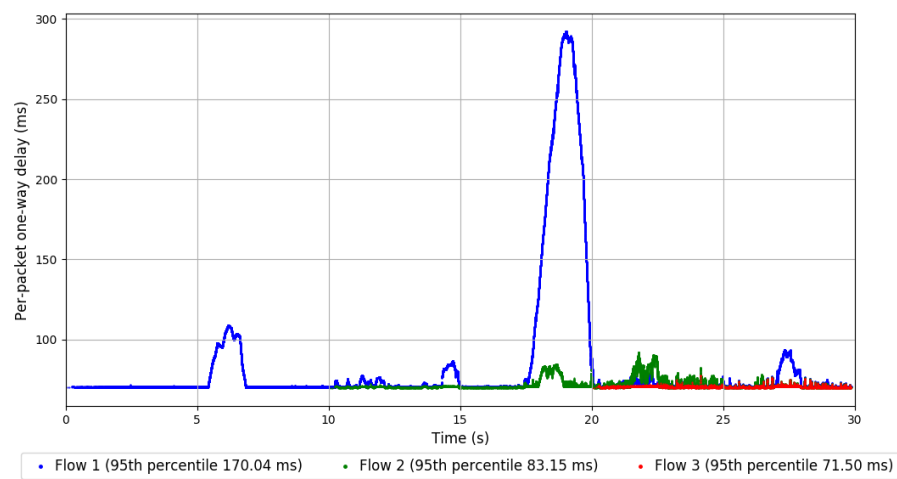
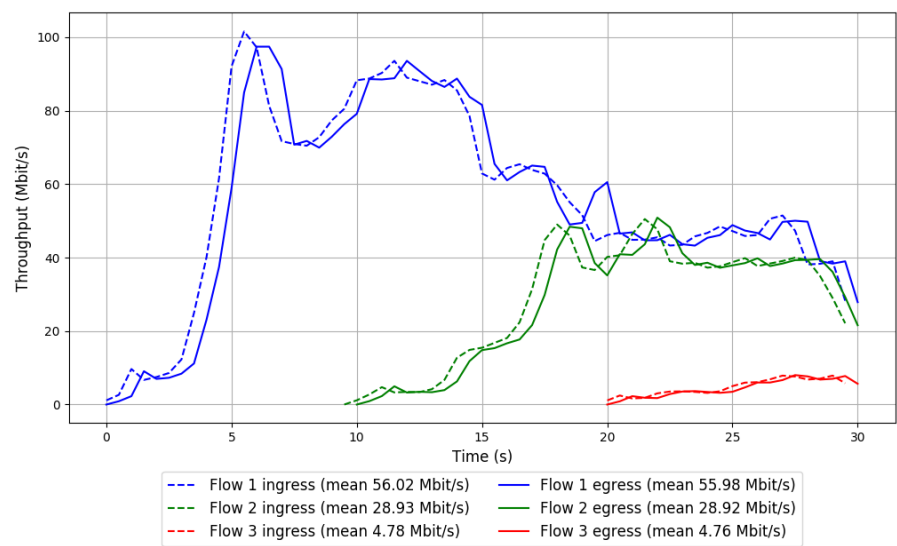


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-22 03:53:23
End at: 2019-01-22 03:53:53
Local clock offset: -0.935 ms
Remote clock offset: -5.044 ms

Below is generated by plot.py at 2019-01-22 05:16:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.76 Mbit/s
95th percentile per-packet one-way delay: 108.042 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 55.98 Mbit/s
95th percentile per-packet one-way delay: 170.042 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 28.92 Mbit/s
95th percentile per-packet one-way delay: 83.147 ms
Loss rate: 0.43%
-- Flow 3:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 71.502 ms
Loss rate: 1.37%

Run 3: Report of PCC-Vivace — Data Link

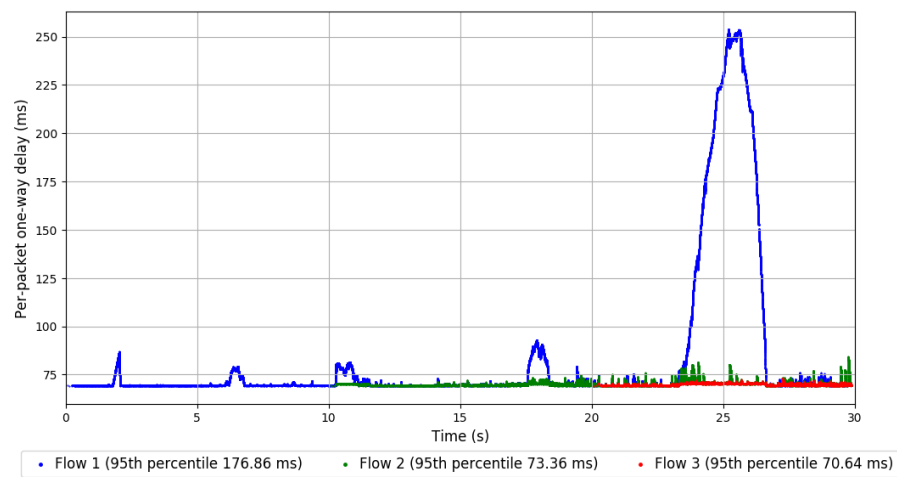
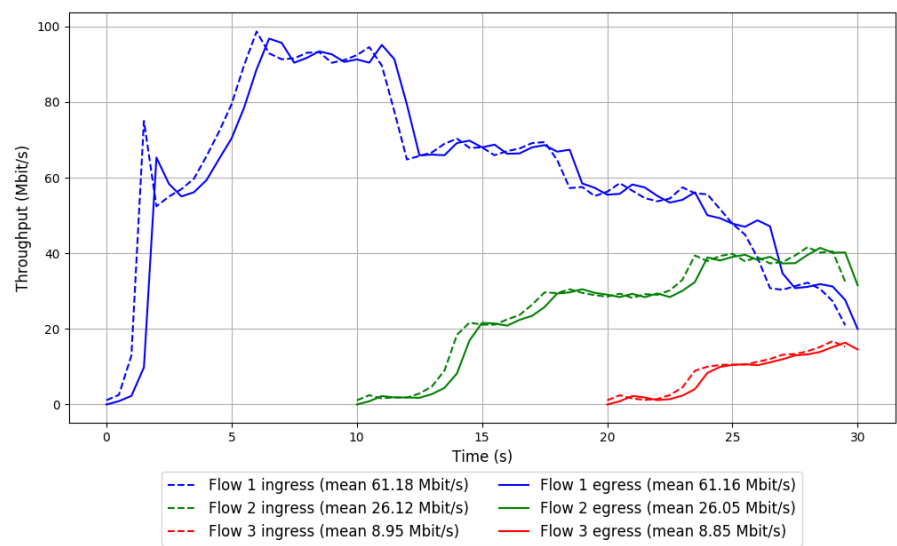


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-22 04:25:18
End at: 2019-01-22 04:25:48
Local clock offset: -2.92 ms
Remote clock offset: -4.213 ms

Below is generated by plot.py at 2019-01-22 05:16:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.37 Mbit/s
95th percentile per-packet one-way delay: 120.056 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 61.16 Mbit/s
95th percentile per-packet one-way delay: 176.856 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 26.05 Mbit/s
95th percentile per-packet one-way delay: 73.361 ms
Loss rate: 0.68%
-- Flow 3:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 70.635 ms
Loss rate: 1.83%

Run 4: Report of PCC-Vivace — Data Link

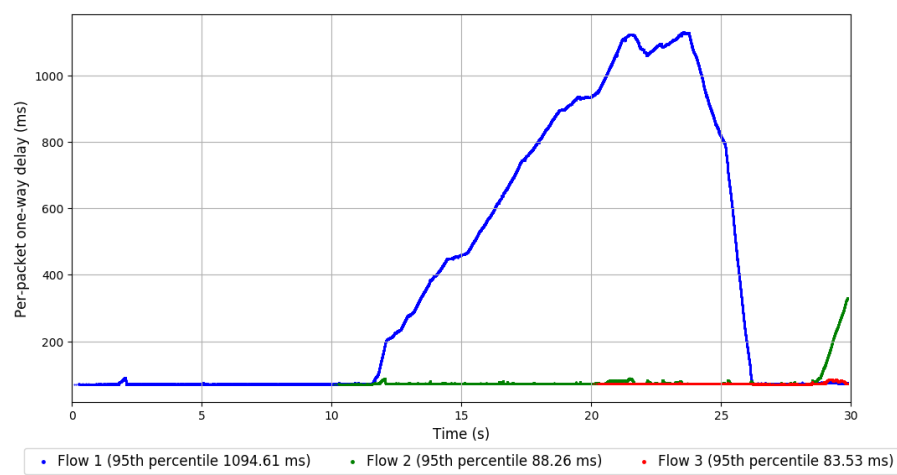
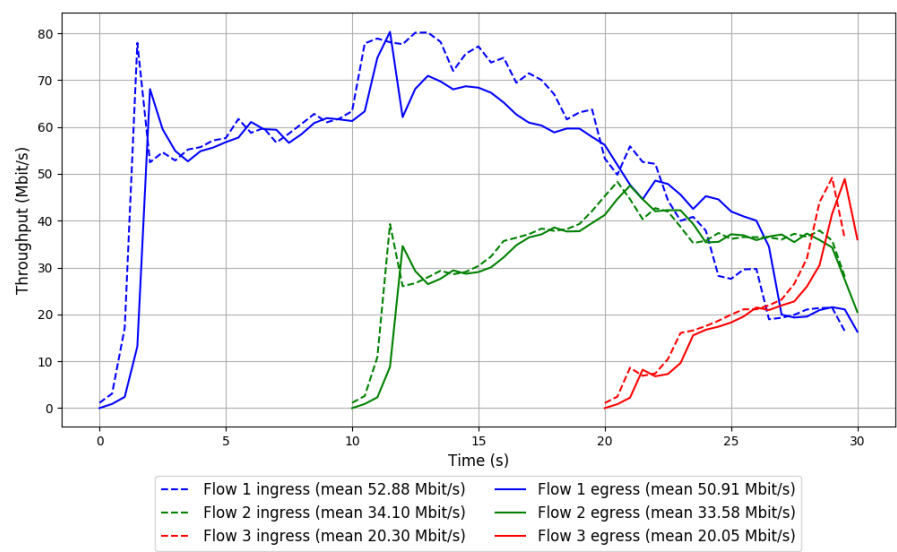


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-22 04:57:12
End at: 2019-01-22 04:57:42
Local clock offset: -0.027 ms
Remote clock offset: -3.905 ms

Below is generated by plot.py at 2019-01-22 05:16:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.80 Mbit/s
95th percentile per-packet one-way delay: 1072.294 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 50.91 Mbit/s
95th percentile per-packet one-way delay: 1094.614 ms
Loss rate: 3.99%
-- Flow 2:
Average throughput: 33.58 Mbit/s
95th percentile per-packet one-way delay: 88.257 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 20.05 Mbit/s
95th percentile per-packet one-way delay: 83.530 ms
Loss rate: 2.08%

Run 5: Report of PCC-Vivace — Data Link



Run 1: Statistics of WebRTC media

Start at: 2019-01-22 02:28:24

End at: 2019-01-22 02:28:54

Local clock offset: -2.787 ms

Remote clock offset: -6.59 ms

Below is generated by plot.py at 2019-01-22 05:16:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 2.89 Mbit/s

95th percentile per-packet one-way delay: 70.687 ms

Loss rate: 0.35%

-- Flow 1:

Average throughput: 1.60 Mbit/s

95th percentile per-packet one-way delay: 70.806 ms

Loss rate: 0.20%

-- Flow 2:

Average throughput: 0.93 Mbit/s

95th percentile per-packet one-way delay: 70.147 ms

Loss rate: 0.38%

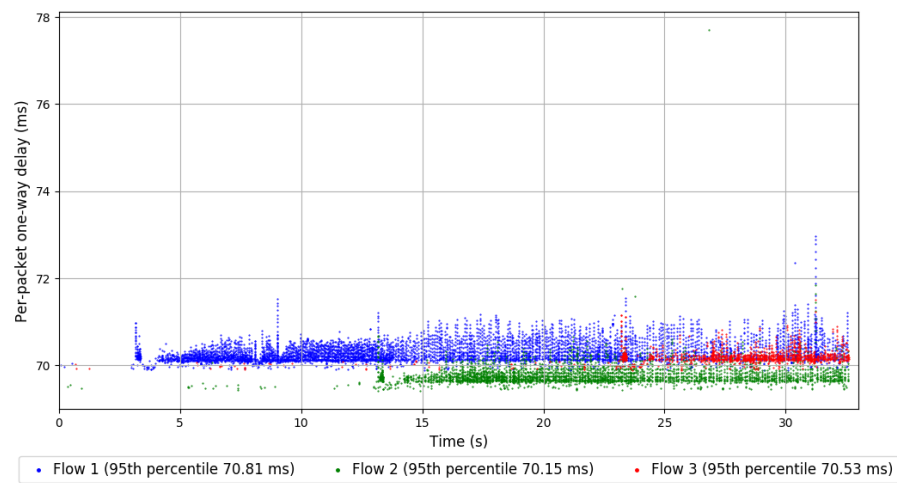
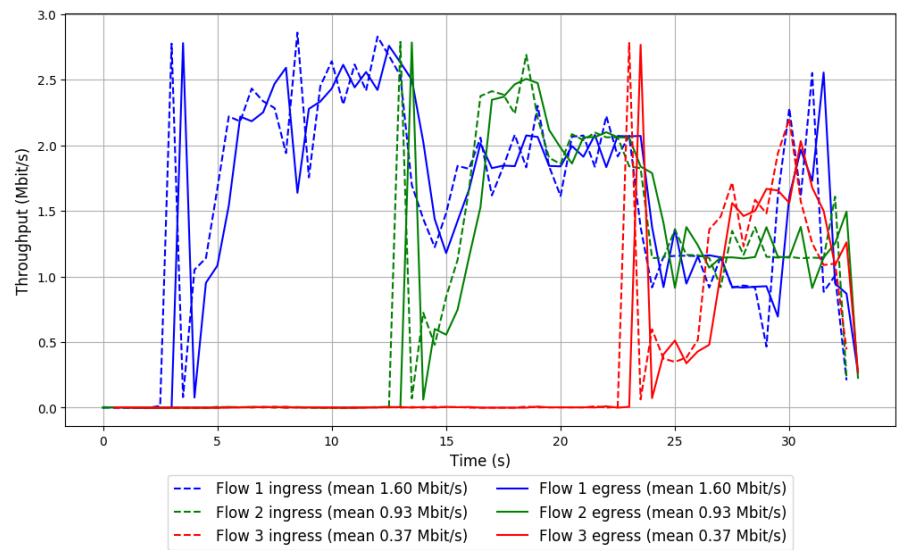
-- Flow 3:

Average throughput: 0.37 Mbit/s

95th percentile per-packet one-way delay: 70.531 ms

Loss rate: 0.96%

Run 1: Report of WebRTC media — Data Link

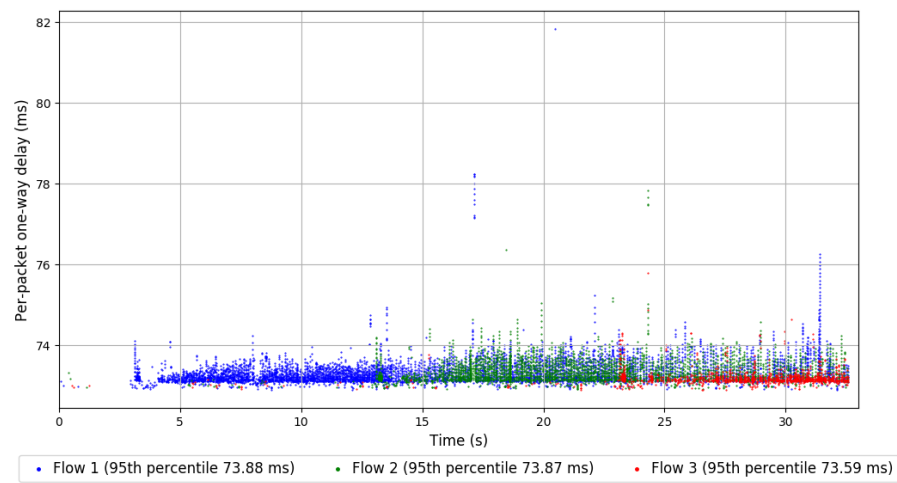
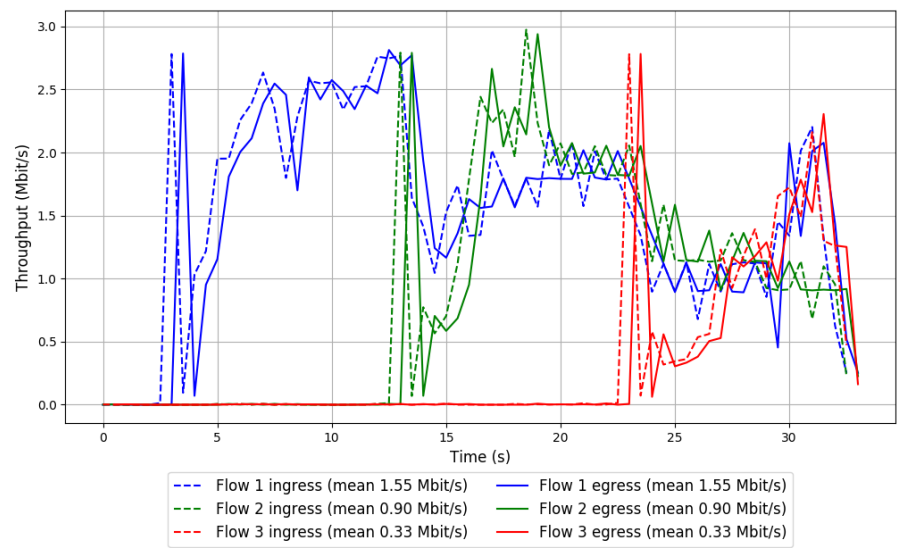


Run 2: Statistics of WebRTC media

Start at: 2019-01-22 02:57:16
End at: 2019-01-22 02:57:46
Local clock offset: 1.495 ms
Remote clock offset: -7.439 ms

Below is generated by plot.py at 2019-01-22 05:16:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.77 Mbit/s
95th percentile per-packet one-way delay: 73.862 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 73.881 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 73.868 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 73.587 ms
Loss rate: 1.75%

Run 2: Report of WebRTC media — Data Link

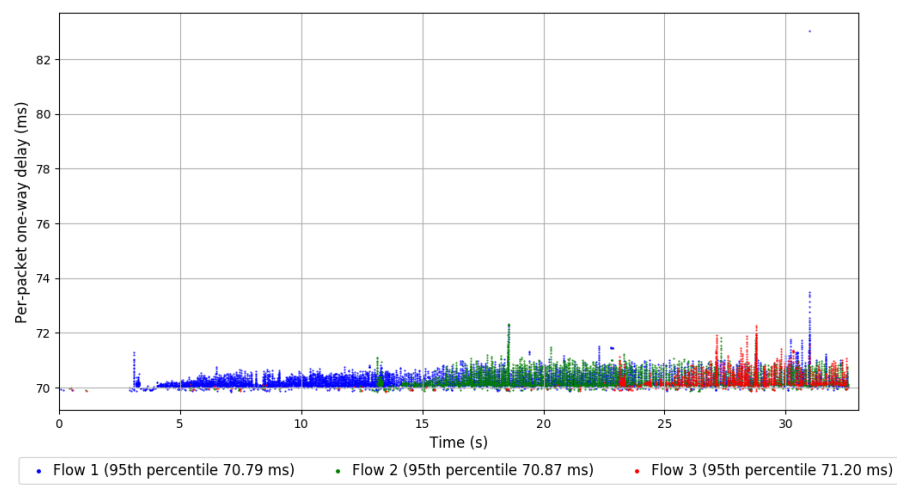
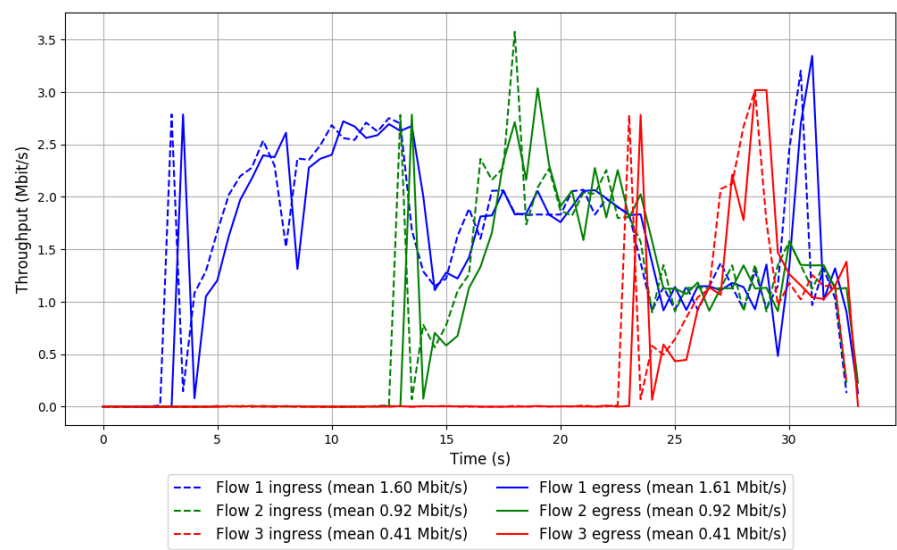


Run 3: Statistics of WebRTC media

Start at: 2019-01-22 03:26:43
End at: 2019-01-22 03:27:13
Local clock offset: -1.283 ms
Remote clock offset: -6.597 ms

Below is generated by plot.py at 2019-01-22 05:16:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 70.870 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 1.61 Mbit/s
95th percentile per-packet one-way delay: 70.790 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 70.870 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 71.199 ms
Loss rate: 0.87%

Run 3: Report of WebRTC media — Data Link

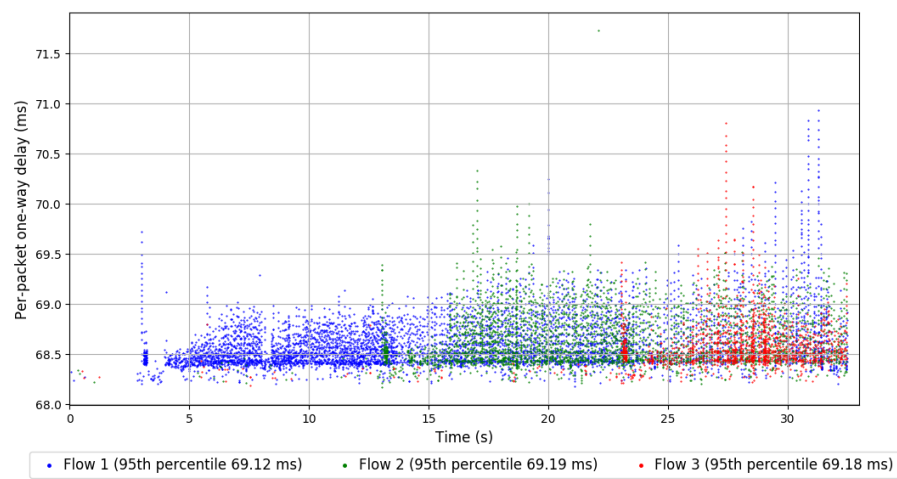
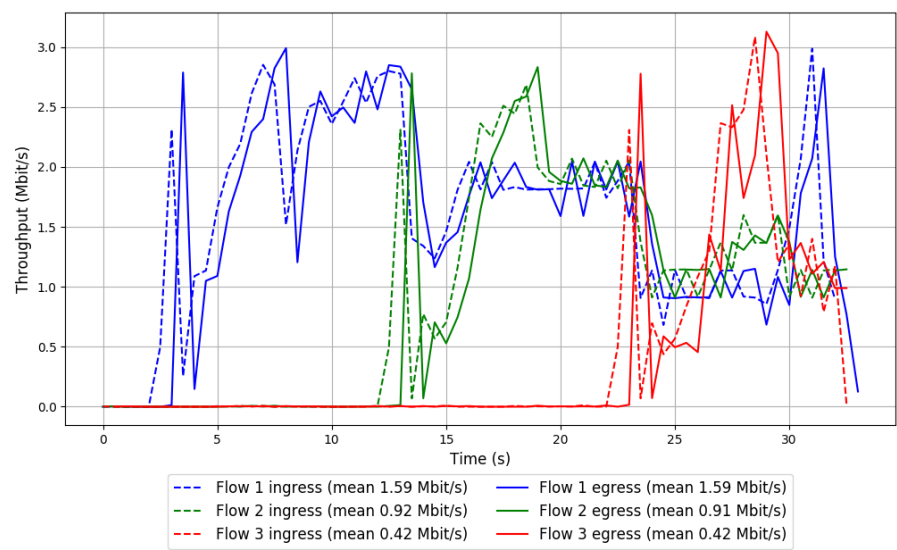


Run 4: Statistics of WebRTC media

Start at: 2019-01-22 03:58:05
End at: 2019-01-22 03:58:35
Local clock offset: -1.553 ms
Remote clock offset: -4.041 ms

Below is generated by plot.py at 2019-01-22 05:16:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 69.154 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 69.123 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.91 Mbit/s
95th percentile per-packet one-way delay: 69.190 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 69.182 ms
Loss rate: 0.75%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-22 04:30:02
End at: 2019-01-22 04:30:32
Local clock offset: -0.694 ms
Remote clock offset: -4.085 ms

Below is generated by plot.py at 2019-01-22 05:16:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 72.722 ms
Loss rate: 0.88%
-- Flow 1:
Average throughput: 1.58 Mbit/s
95th percentile per-packet one-way delay: 72.881 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 72.238 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 71.951 ms
Loss rate: 2.45%

Run 5: Report of WebRTC media — Data Link

