

Pantheon Report

Generated at 2019-01-03 11:52:17 (UTC).

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

Repeated the test of 19 congestion control schemes 5 times.

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

NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

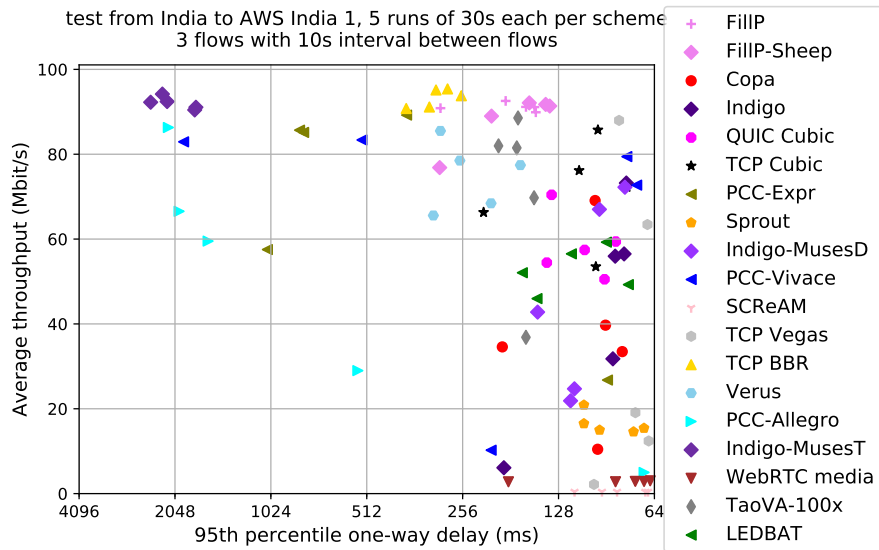
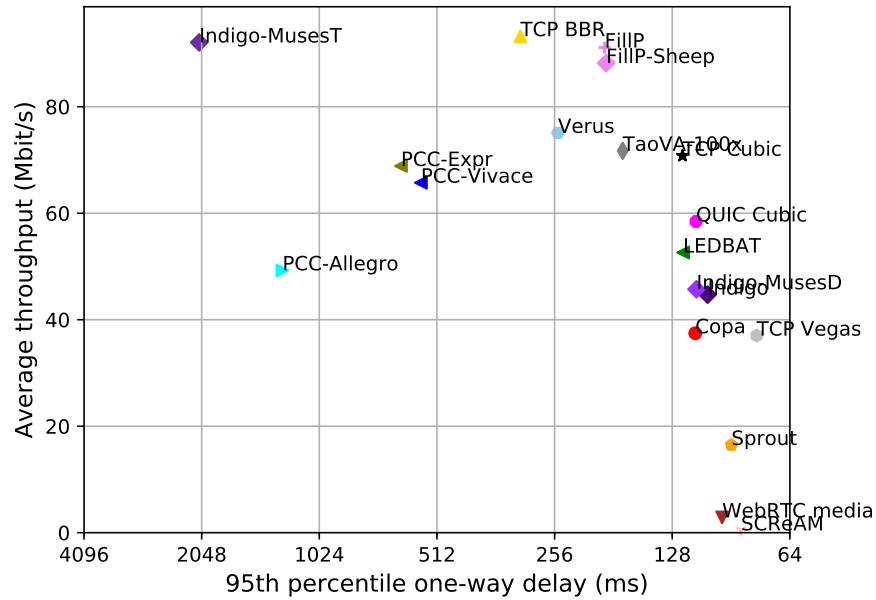
```
Linux 4.15.0-1029-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

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

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

test from 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)



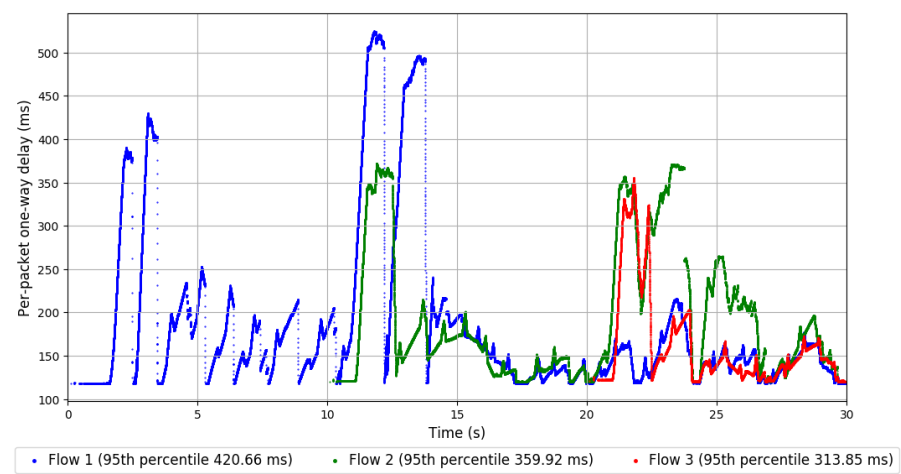
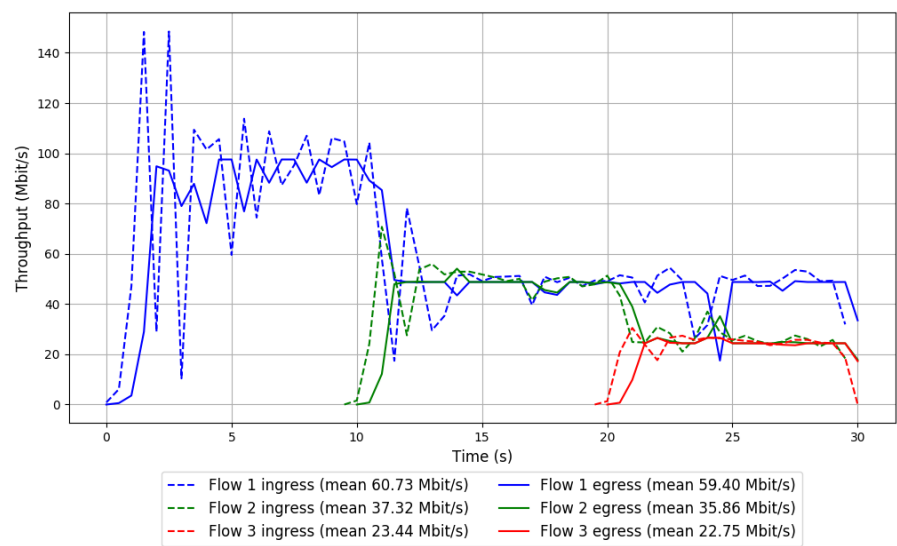
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	57.04	37.90	33.21	310.07	297.48	355.07	2.67	3.89	4.70
Copa	5	21.95	16.40	13.94	113.08	110.24	106.35	0.24	0.33	1.25
TCP Cubic	5	40.53	33.36	24.45	115.98	131.49	133.56	0.18	0.34	1.05
FillP	5	54.81	40.74	27.85	162.55	207.16	183.07	0.39	2.44	2.41
FillP-Sheep	5	51.19	37.60	36.31	191.46	203.46	171.10	0.30	0.83	1.20
Indigo	5	21.06	29.56	12.23	102.07	104.47	104.28	0.18	0.36	0.83
Indigo-MusesD	5	26.89	21.54	13.73	110.68	107.73	116.25	0.13	0.21	1.02
Indigo-MusesT	5	54.87	43.45	28.50	1725.68	2041.35	1476.54	11.45	16.38	32.73
LEDBAT	5	33.10	22.30	14.24	119.43	121.35	118.79	0.29	0.46	1.67
PCC-Allegro	5	18.10	30.35	33.62	532.06	914.07	395.31	2.51	5.11	1.42
PCC-Expr	5	43.66	29.38	17.43	486.34	435.73	82.98	7.93	5.51	1.22
QUIC Cubic	5	31.30	29.13	23.65	103.28	122.20	122.28	0.36	0.63	1.56
SCReAM	5	0.22	0.22	0.22	84.23	84.66	83.77	0.31	0.52	0.88
Sprout	5	8.31	8.26	8.16	89.56	90.62	91.53	0.34	0.54	1.25
TaoVA-100x	5	40.58	32.35	29.19	158.36	170.67	182.05	0.28	0.65	1.45
TCP Vegas	5	22.62	14.47	14.43	77.31	77.60	80.05	0.32	0.67	0.90
Verus	5	42.56	37.16	23.80	230.09	267.13	338.36	0.56	0.74	1.65
PCC-Vivace	5	49.41	19.23	11.16	568.32	123.31	137.34	1.79	0.63	17.17
WebRTC media	5	1.60	0.92	0.37	94.67	94.56	95.18	0.10	0.39	1.12

Run 1: Statistics of TCP BBR

Start at: 2019-01-03 09:56:21
End at: 2019-01-03 09:56:51
Local clock offset: 0.516 ms
Remote clock offset: -46.522 ms

Below is generated by plot.py at 2019-01-03 11:43:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.78 Mbit/s
95th percentile per-packet one-way delay: 384.925 ms
Loss rate: 3.36%
-- Flow 1:
Average throughput: 59.40 Mbit/s
95th percentile per-packet one-way delay: 420.657 ms
Loss rate: 2.55%
-- Flow 2:
Average throughput: 35.86 Mbit/s
95th percentile per-packet one-way delay: 359.917 ms
Loss rate: 4.85%
-- Flow 3:
Average throughput: 22.75 Mbit/s
95th percentile per-packet one-way delay: 313.845 ms
Loss rate: 4.84%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2019-01-03 10:20:33

End at: 2019-01-03 10:21:03

Local clock offset: -0.385 ms

Remote clock offset: 4.376 ms

Below is generated by plot.py at 2019-01-03 11:43:43

Datalink statistics

-- Total of 3 flows:

Average throughput: 93.79 Mbit/s

95th percentile per-packet one-way delay: 258.427 ms

Loss rate: 3.58%

-- Flow 1:

Average throughput: 61.80 Mbit/s

95th percentile per-packet one-way delay: 237.983 ms

Loss rate: 3.12%

-- Flow 2:

Average throughput: 35.79 Mbit/s

95th percentile per-packet one-way delay: 260.906 ms

Loss rate: 4.11%

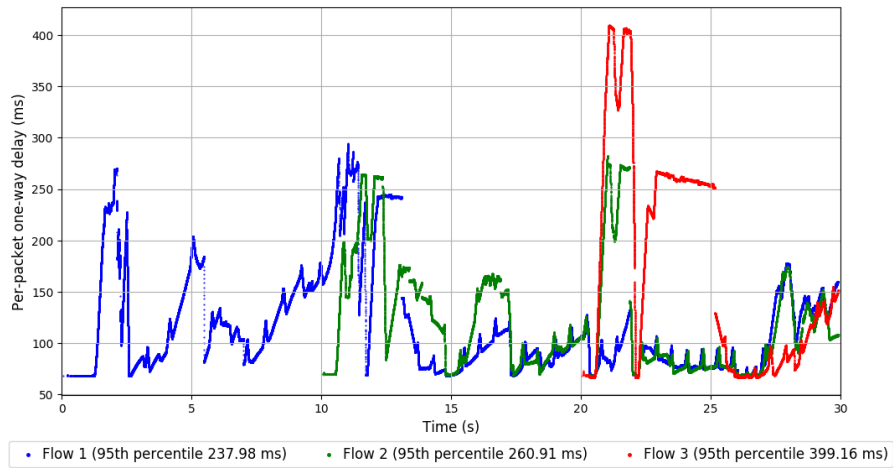
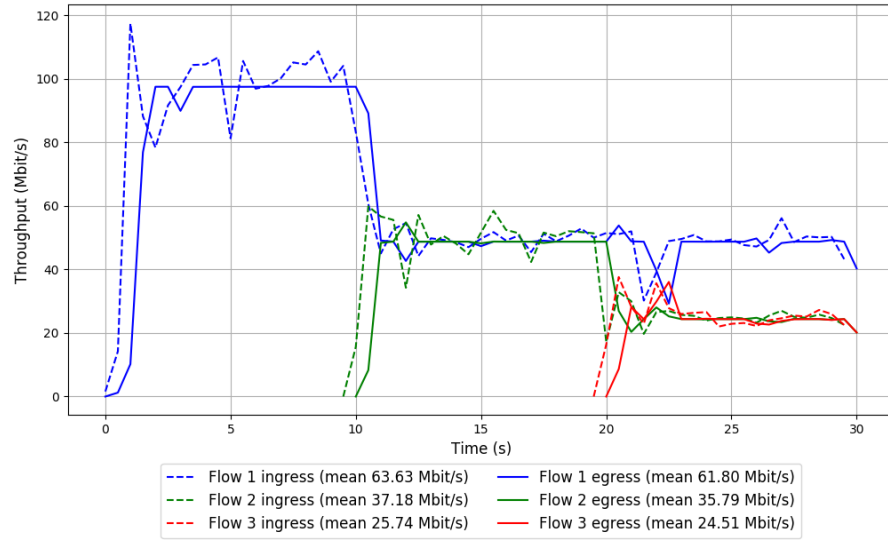
-- Flow 3:

Average throughput: 24.51 Mbit/s

95th percentile per-packet one-way delay: 399.161 ms

Loss rate: 5.51%

Run 2: Report of TCP BBR — Data Link

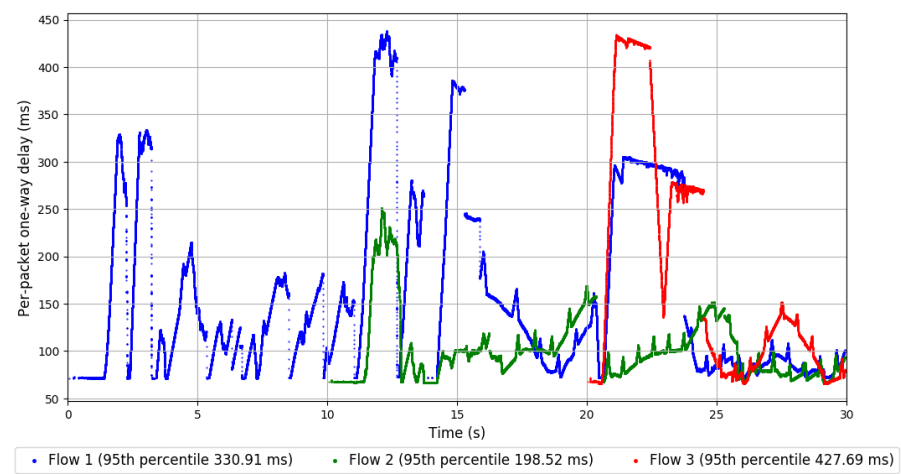
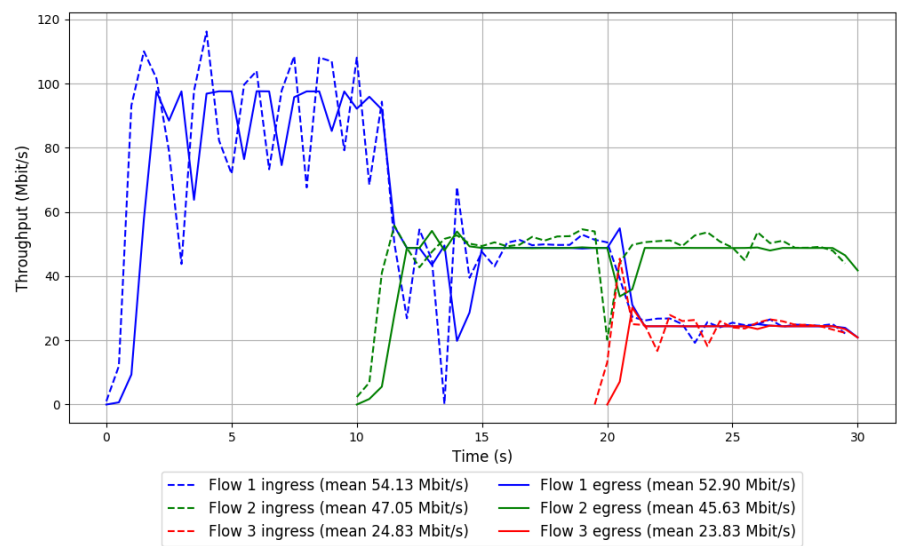


Run 3: Statistics of TCP BBR

Start at: 2019-01-03 10:44:49
End at: 2019-01-03 10:45:19
Local clock offset: 0.203 ms
Remote clock offset: 15.812 ms

Below is generated by plot.py at 2019-01-03 11:43:43
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.13 Mbit/s
95th percentile per-packet one-way delay: 325.557 ms
Loss rate: 3.03%
-- Flow 1:
Average throughput: 52.90 Mbit/s
95th percentile per-packet one-way delay: 330.906 ms
Loss rate: 2.54%
-- Flow 2:
Average throughput: 45.63 Mbit/s
95th percentile per-packet one-way delay: 198.516 ms
Loss rate: 3.40%
-- Flow 3:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 427.690 ms
Loss rate: 4.80%

Run 3: Report of TCP BBR — Data Link

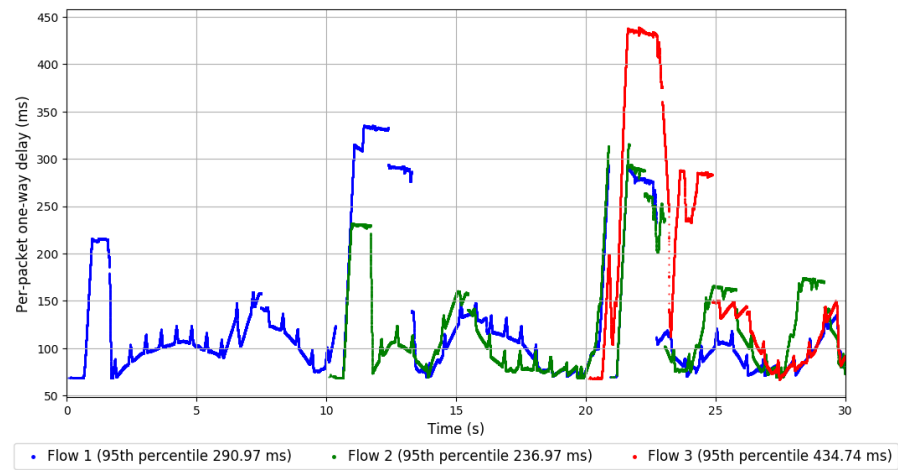
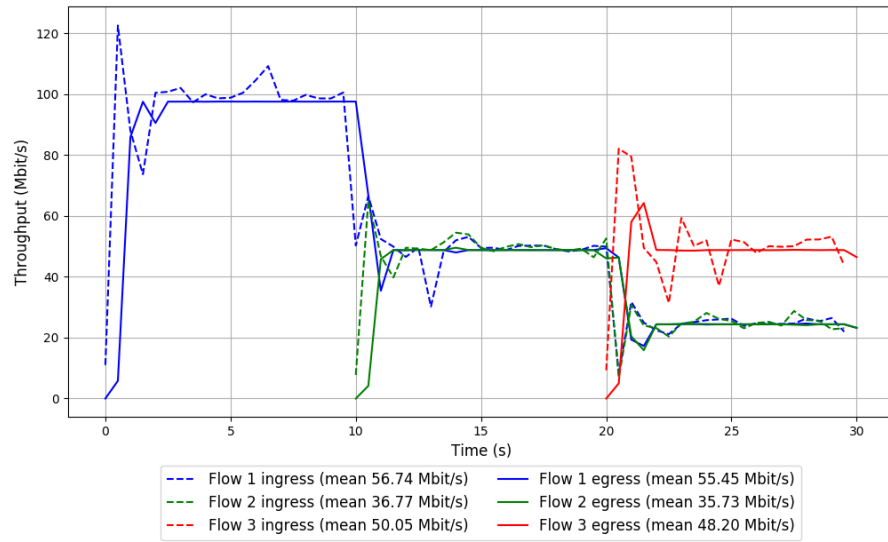


Run 4: Statistics of TCP BBR

Start at: 2019-01-03 11:09:59
End at: 2019-01-03 11:10:29
Local clock offset: 0.968 ms
Remote clock offset: 18.685 ms

Below is generated by plot.py at 2019-01-03 11:43:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.15 Mbit/s
95th percentile per-packet one-way delay: 310.381 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 55.45 Mbit/s
95th percentile per-packet one-way delay: 290.967 ms
Loss rate: 2.52%
-- Flow 2:
Average throughput: 35.73 Mbit/s
95th percentile per-packet one-way delay: 236.971 ms
Loss rate: 3.20%
-- Flow 3:
Average throughput: 48.20 Mbit/s
95th percentile per-packet one-way delay: 434.741 ms
Loss rate: 4.41%

Run 4: Report of TCP BBR — Data Link

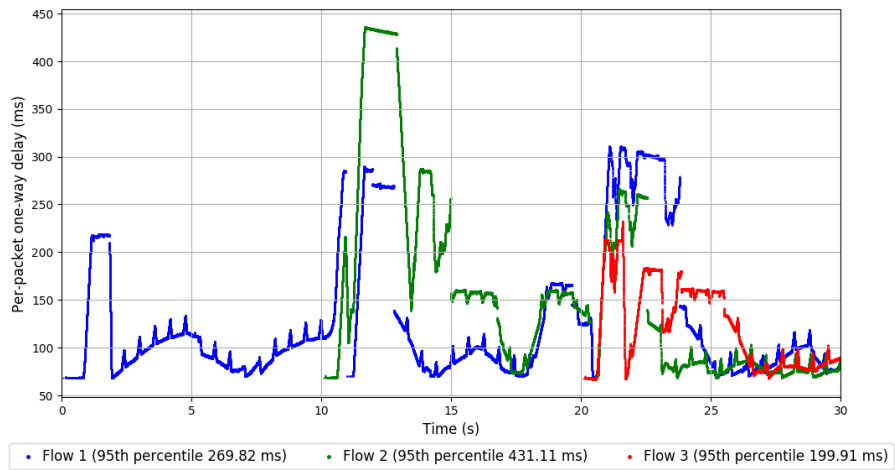
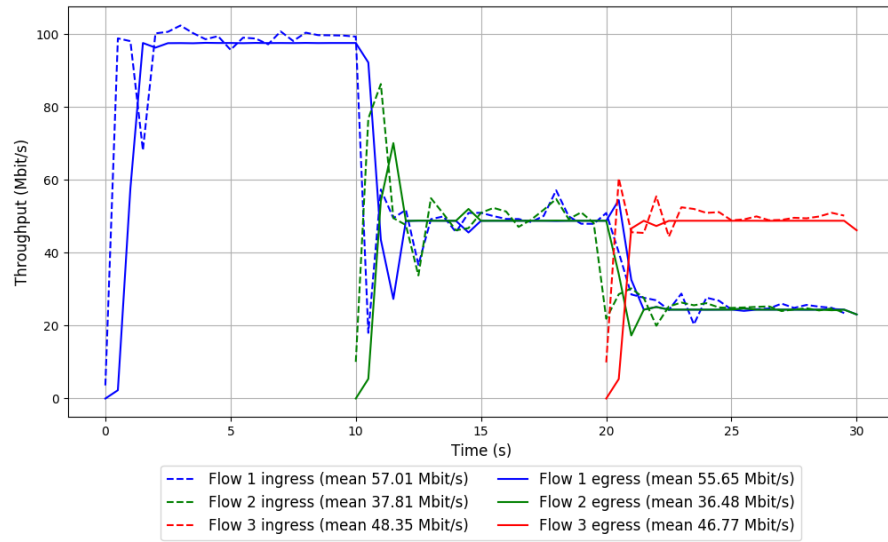


Run 5: Statistics of TCP BBR

Start at: 2019-01-03 11:34:41
End at: 2019-01-03 11:35:11
Local clock offset: 0.036 ms
Remote clock offset: 20.359 ms

Below is generated by plot.py at 2019-01-03 11:43:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 95.40 Mbit/s
95th percentile per-packet one-way delay: 285.521 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 55.65 Mbit/s
95th percentile per-packet one-way delay: 269.817 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 36.48 Mbit/s
95th percentile per-packet one-way delay: 431.110 ms
Loss rate: 3.90%
-- Flow 3:
Average throughput: 46.77 Mbit/s
95th percentile per-packet one-way delay: 199.906 ms
Loss rate: 3.95%

Run 5: Report of TCP BBR — Data Link

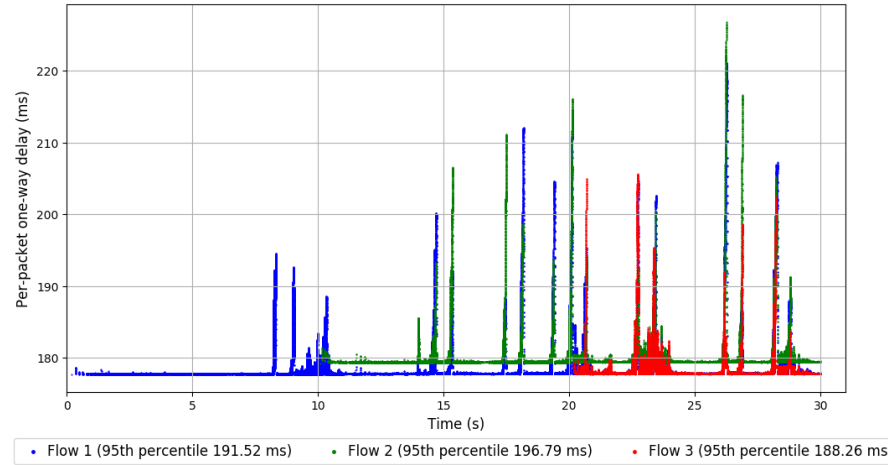
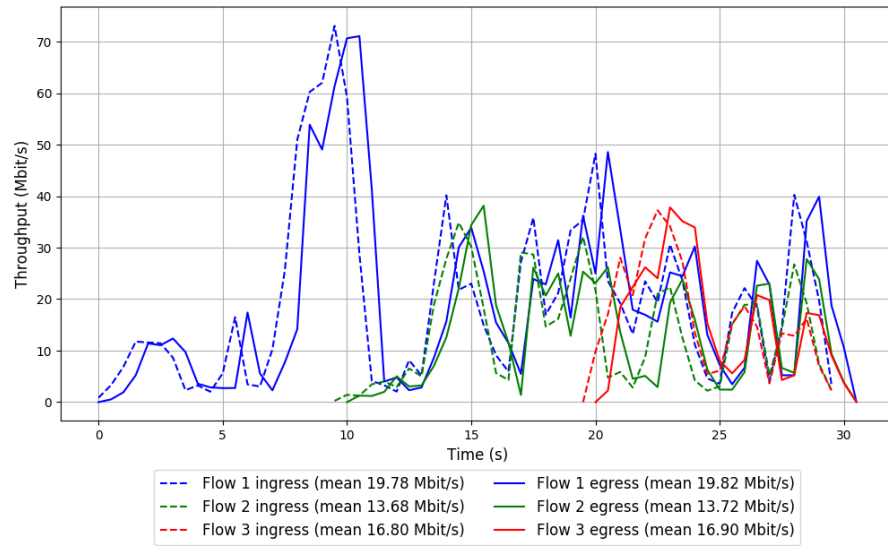


Run 1: Statistics of Copa

Start at: 2019-01-03 09:38:20
End at: 2019-01-03 09:38:50
Local clock offset: 2.672 ms
Remote clock offset: -107.187 ms

Below is generated by plot.py at 2019-01-03 11:43:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 34.58 Mbit/s
95th percentile per-packet one-way delay: 192.177 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 19.82 Mbit/s
95th percentile per-packet one-way delay: 191.524 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 196.787 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 16.90 Mbit/s
95th percentile per-packet one-way delay: 188.262 ms
Loss rate: 0.19%

Run 1: Report of Copa — Data Link

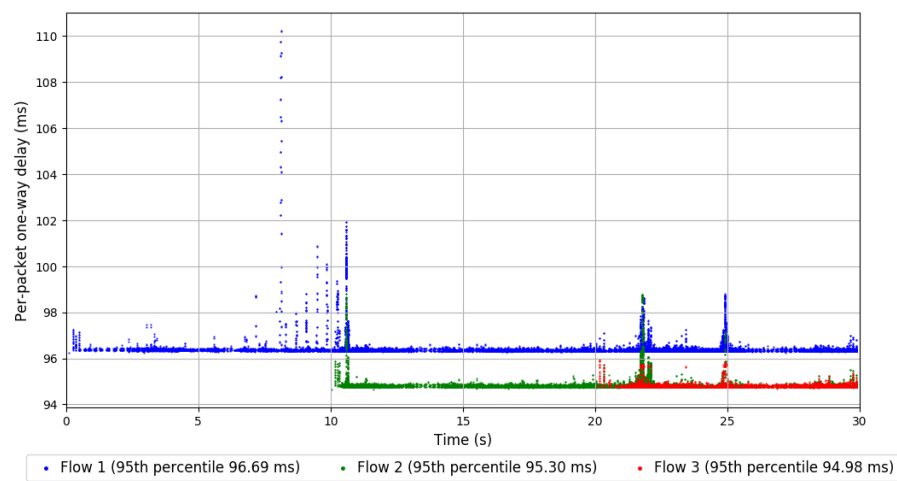
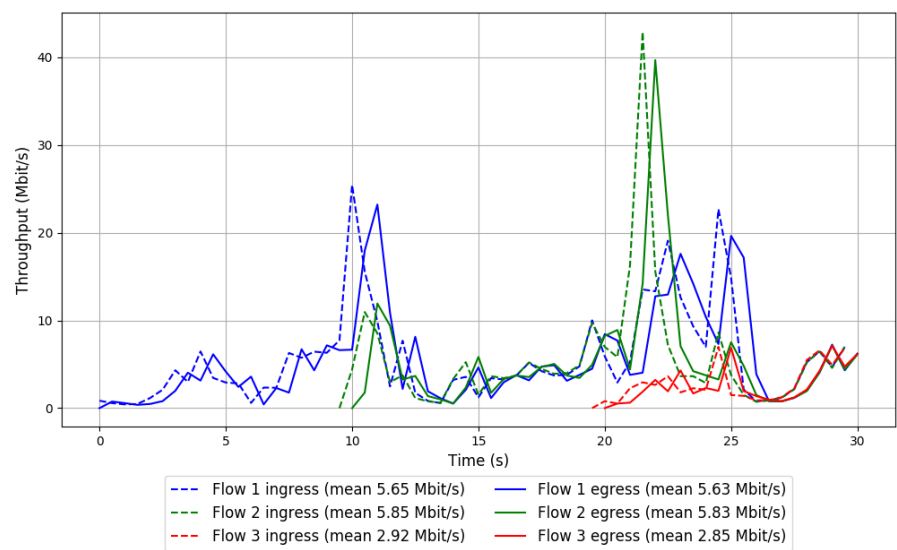


Run 2: Statistics of Copa

Start at: 2019-01-03 10:02:46
End at: 2019-01-03 10:03:16
Local clock offset: 2.182 ms
Remote clock offset: -21.998 ms

Below is generated by plot.py at 2019-01-03 11:43:45
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 96.466 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 5.63 Mbit/s
95th percentile per-packet one-way delay: 96.688 ms
Loss rate: 0.62%
-- Flow 2:
Average throughput: 5.83 Mbit/s
95th percentile per-packet one-way delay: 95.297 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 94.980 ms
Loss rate: 3.53%

Run 2: Report of Copa — Data Link



Run 3: Statistics of Copa

Start at: 2019-01-03 10:26:36

End at: 2019-01-03 10:27:06

Local clock offset: 1.582 ms

Remote clock offset: 9.637 ms

Below is generated by plot.py at 2019-01-03 11:43:45

Datalink statistics

-- Total of 3 flows:

Average throughput: 33.47 Mbit/s

95th percentile per-packet one-way delay: 80.758 ms

Loss rate: 0.48%

-- Flow 1:

Average throughput: 16.24 Mbit/s

95th percentile per-packet one-way delay: 82.751 ms

Loss rate: 0.28%

-- Flow 2:

Average throughput: 16.49 Mbit/s

95th percentile per-packet one-way delay: 80.850 ms

Loss rate: 0.32%

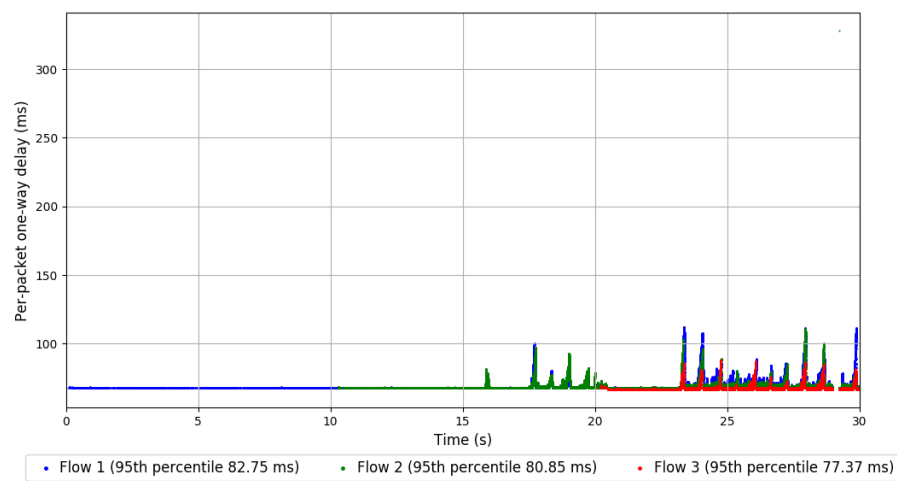
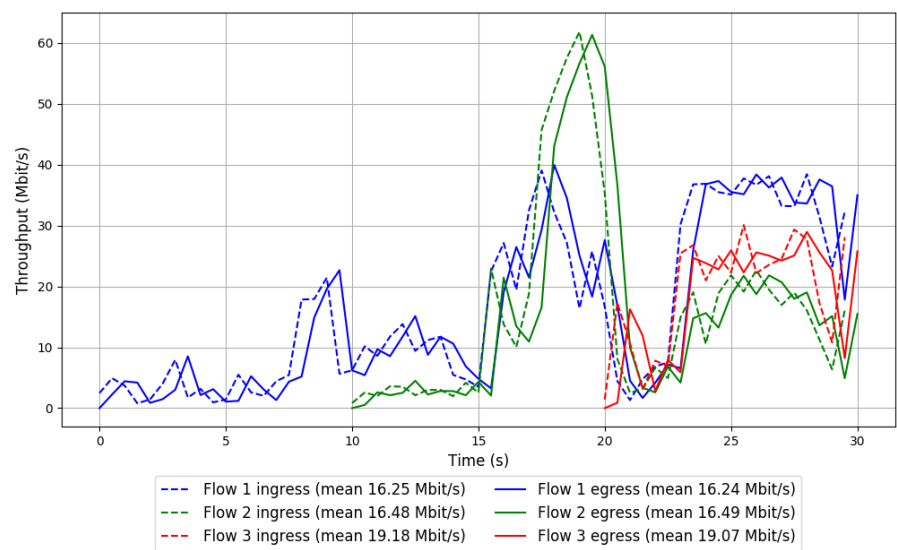
-- Flow 3:

Average throughput: 19.07 Mbit/s

95th percentile per-packet one-way delay: 77.373 ms

Loss rate: 1.28%

Run 3: Report of Copa — Data Link

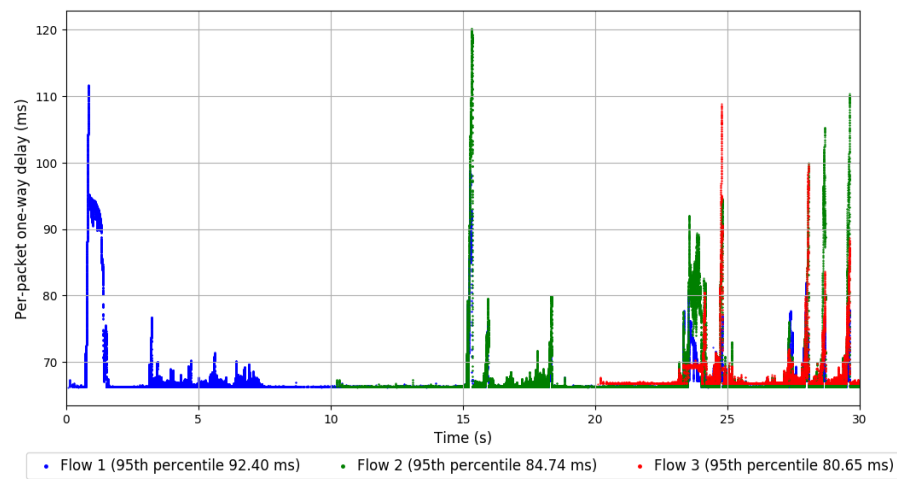
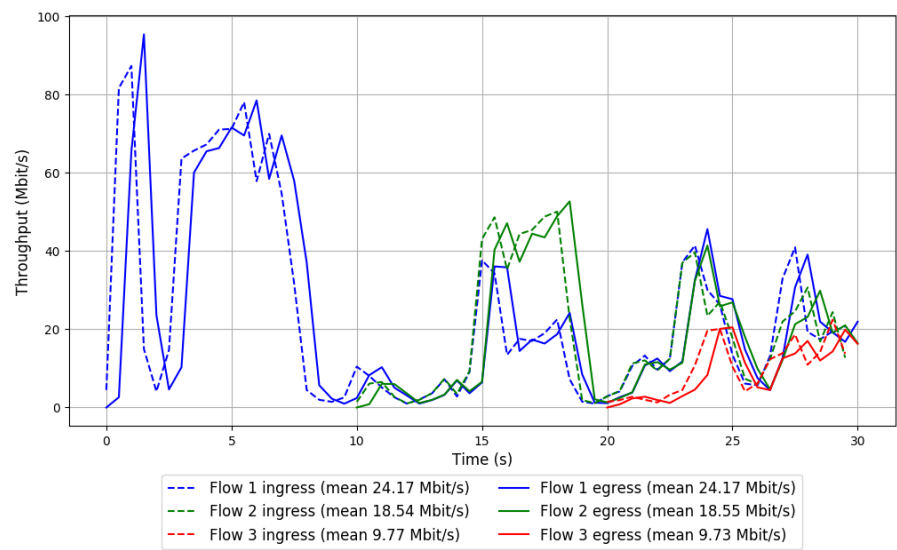


Run 4: Statistics of Copa

Start at: 2019-01-03 10:51:12
End at: 2019-01-03 10:51:42
Local clock offset: 0.654 ms
Remote clock offset: 16.512 ms

Below is generated by plot.py at 2019-01-03 11:43:47
Datalink statistics
-- Total of 3 flows:
Average throughput: 39.70 Mbit/s
95th percentile per-packet one-way delay: 91.139 ms
Loss rate: 0.33%
-- Flow 1:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 92.398 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 18.55 Mbit/s
95th percentile per-packet one-way delay: 84.744 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 9.73 Mbit/s
95th percentile per-packet one-way delay: 80.649 ms
Loss rate: 1.17%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2019-01-03 11:16:53

End at: 2019-01-03 11:17:23

Local clock offset: 1.047 ms

Remote clock offset: 2.583 ms

Below is generated by plot.py at 2019-01-03 11:44:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.08 Mbit/s

95th percentile per-packet one-way delay: 98.263 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 43.89 Mbit/s

95th percentile per-packet one-way delay: 102.021 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 27.40 Mbit/s

95th percentile per-packet one-way delay: 93.543 ms

Loss rate: 0.03%

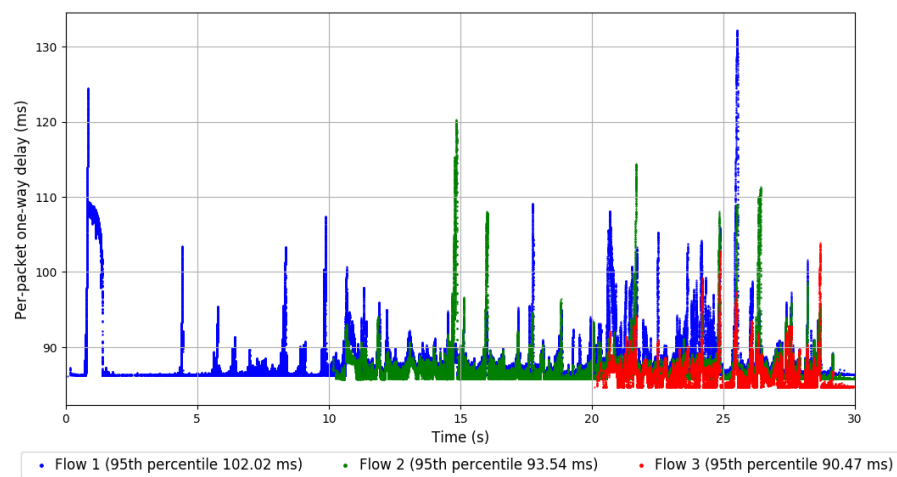
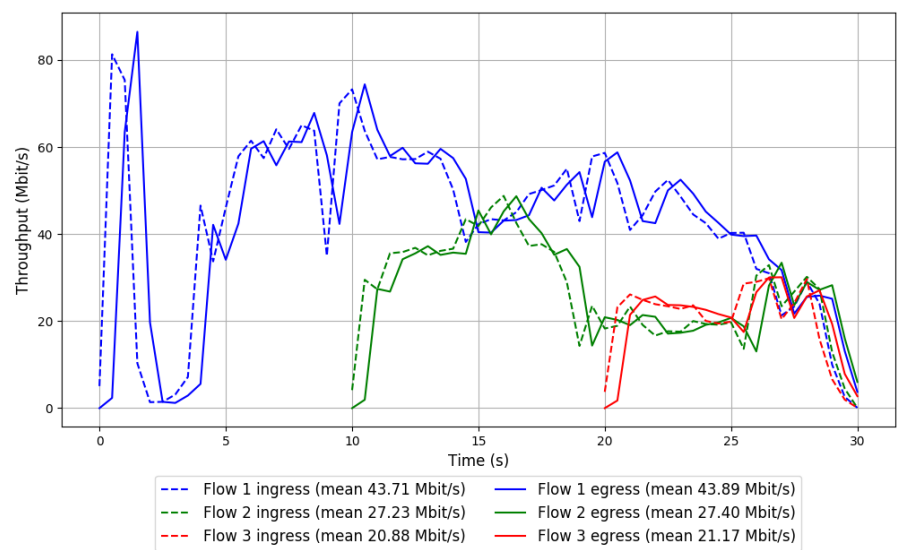
-- Flow 3:

Average throughput: 21.17 Mbit/s

95th percentile per-packet one-way delay: 90.466 ms

Loss rate: 0.07%

Run 5: Report of Copa — Data Link

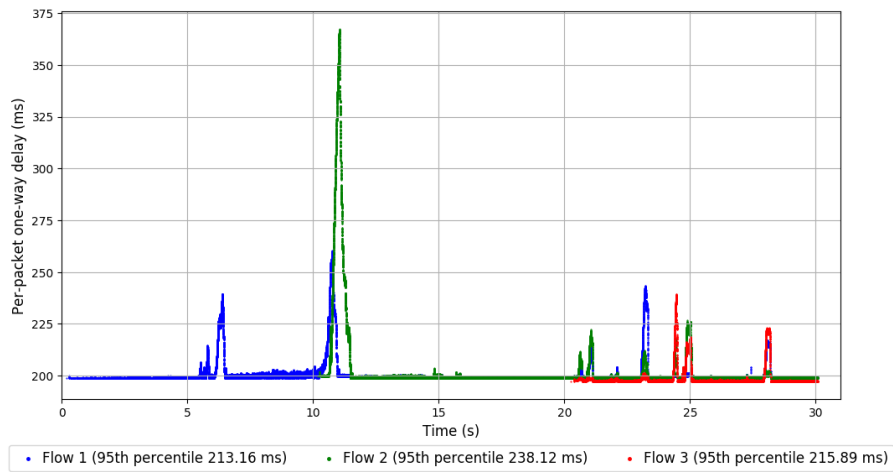
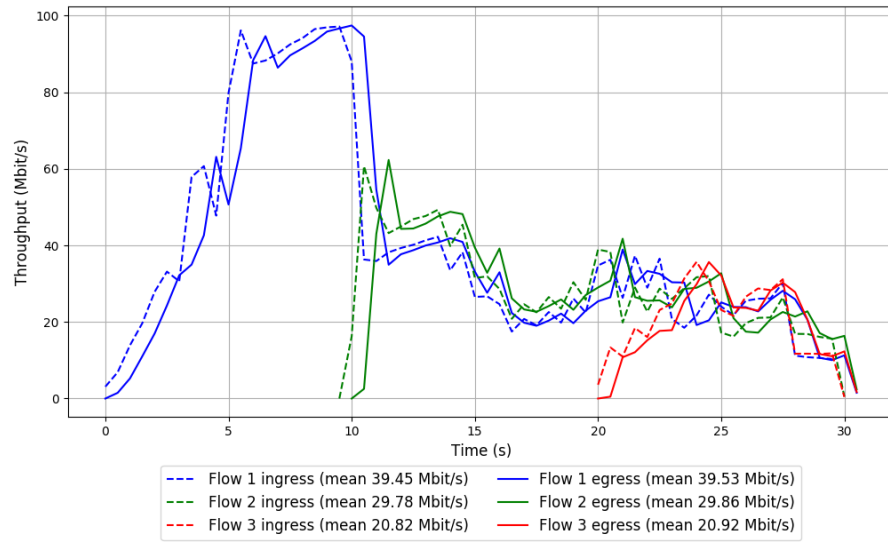


Run 1: Statistics of TCP Cubic

Start at: 2019-01-03 09:39:46
End at: 2019-01-03 09:40:16
Local clock offset: -0.917 ms
Remote clock offset: -130.142 ms

Below is generated by plot.py at 2019-01-03 11:44:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 66.30 Mbit/s
95th percentile per-packet one-way delay: 220.058 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 213.156 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 29.86 Mbit/s
95th percentile per-packet one-way delay: 238.117 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 20.92 Mbit/s
95th percentile per-packet one-way delay: 215.889 ms
Loss rate: 0.88%

Run 1: Report of TCP Cubic — Data Link

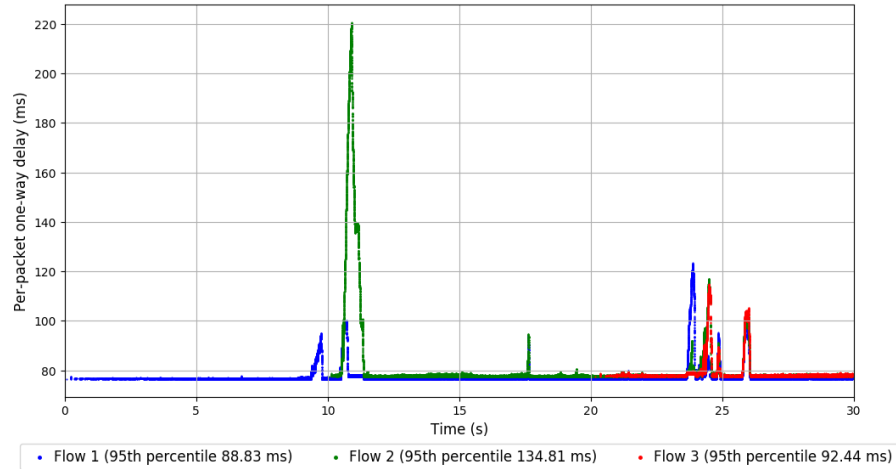
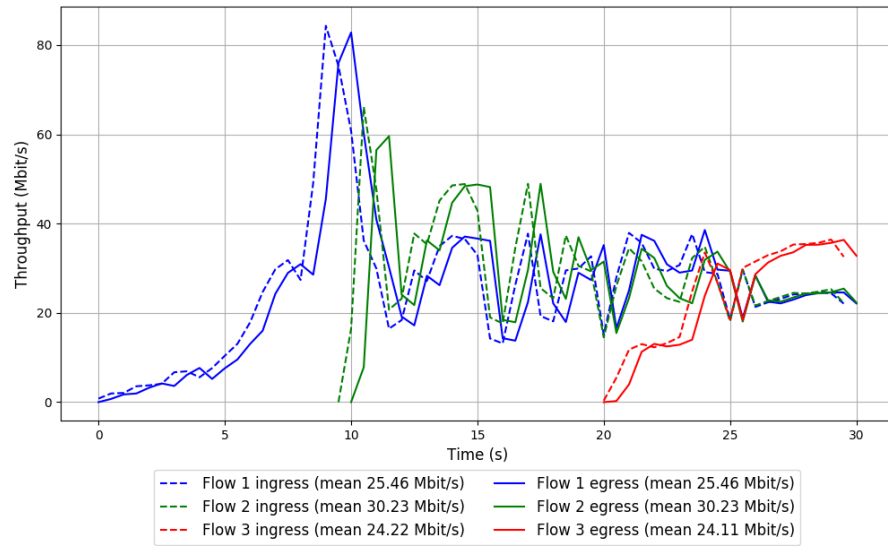


Run 2: Statistics of TCP Cubic

Start at: 2019-01-03 10:03:58
End at: 2019-01-03 10:04:28
Local clock offset: 1.223 ms
Remote clock offset: -4.368 ms

Below is generated by plot.py at 2019-01-03 11:44:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 53.50 Mbit/s
95th percentile per-packet one-way delay: 97.754 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 25.46 Mbit/s
95th percentile per-packet one-way delay: 88.827 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 30.23 Mbit/s
95th percentile per-packet one-way delay: 134.814 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 24.11 Mbit/s
95th percentile per-packet one-way delay: 92.441 ms
Loss rate: 1.17%

Run 2: Report of TCP Cubic — Data Link

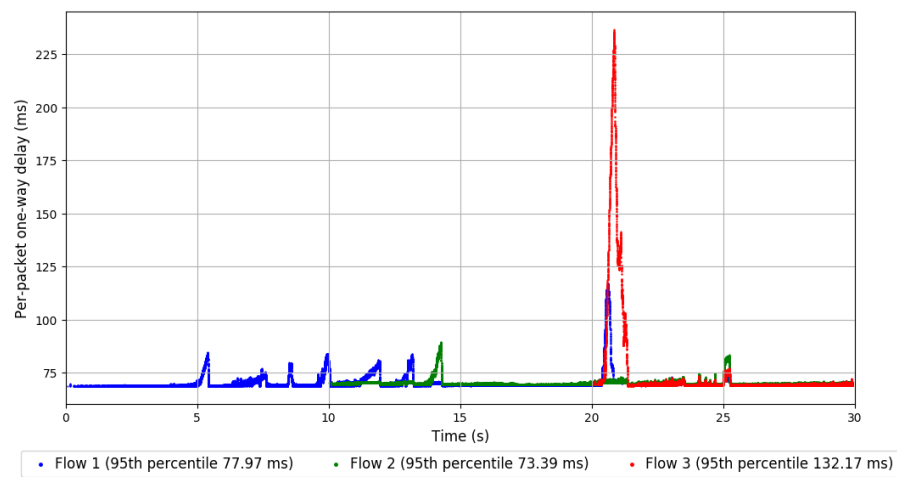
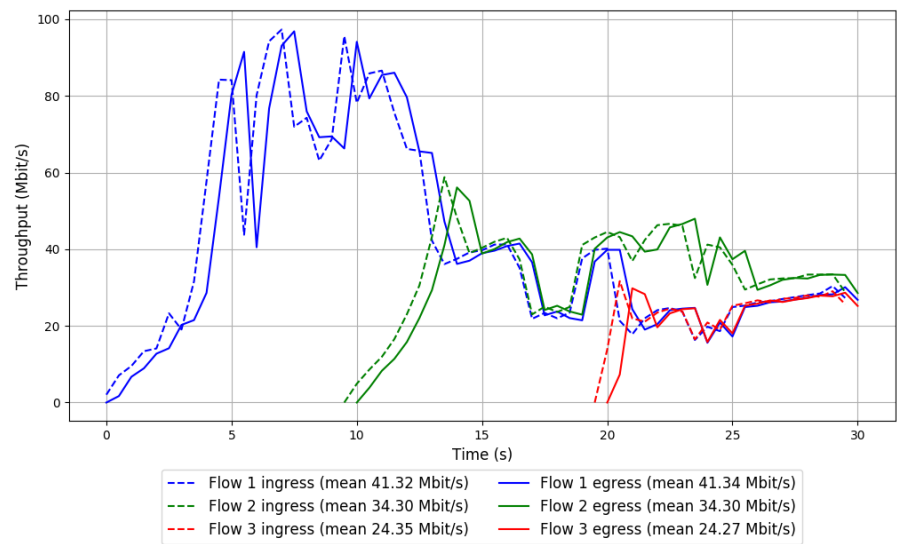


Run 3: Statistics of TCP Cubic

Start at: 2019-01-03 10:27:49
End at: 2019-01-03 10:28:19
Local clock offset: 3.1 ms
Remote clock offset: 10.556 ms

```
# Below is generated by plot.py at 2019-01-03 11:44:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.25 Mbit/s
95th percentile per-packet one-way delay: 78.069 ms
Loss rate: 0.36%
-- Flow 1:
Average throughput: 41.34 Mbit/s
95th percentile per-packet one-way delay: 77.971 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 34.30 Mbit/s
95th percentile per-packet one-way delay: 73.393 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 24.27 Mbit/s
95th percentile per-packet one-way delay: 132.173 ms
Loss rate: 1.06%
```

Run 3: Report of TCP Cubic — Data Link

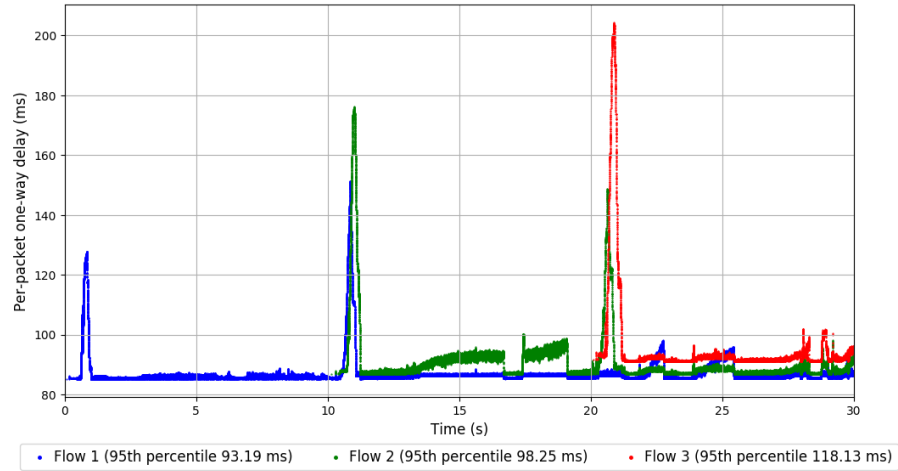
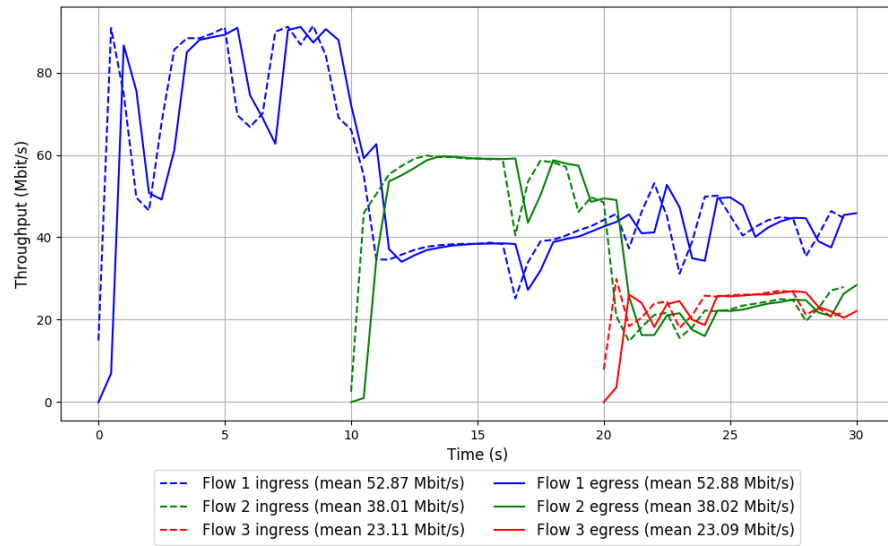


Run 4: Statistics of TCP Cubic

Start at: 2019-01-03 10:52:25
End at: 2019-01-03 10:52:55
Local clock offset: 2.215 ms
Remote clock offset: -0.804 ms

Below is generated by plot.py at 2019-01-03 11:44:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.73 Mbit/s
95th percentile per-packet one-way delay: 96.289 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 52.88 Mbit/s
95th percentile per-packet one-way delay: 93.190 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 38.02 Mbit/s
95th percentile per-packet one-way delay: 98.247 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 23.09 Mbit/s
95th percentile per-packet one-way delay: 118.130 ms
Loss rate: 0.91%

Run 4: Report of TCP Cubic — Data Link

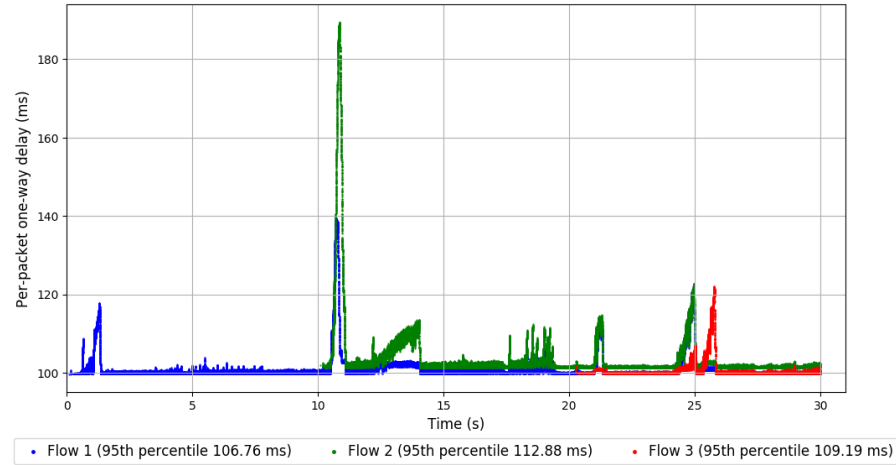
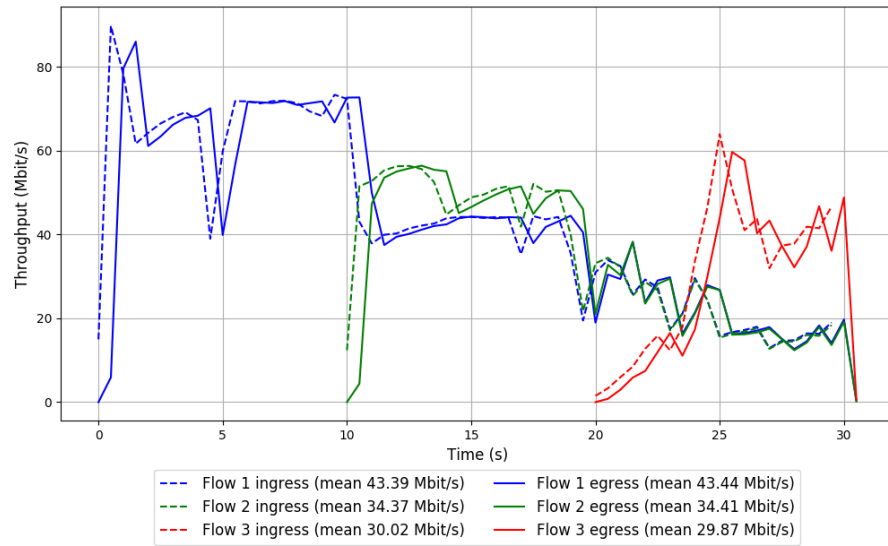


Run 5: Statistics of TCP Cubic

Start at: 2019-01-03 11:18:22
End at: 2019-01-03 11:18:52
Local clock offset: -0.268 ms
Remote clock offset: -14.13 ms

Below is generated by plot.py at 2019-01-03 11:44:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 76.16 Mbit/s
95th percentile per-packet one-way delay: 110.295 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 43.44 Mbit/s
95th percentile per-packet one-way delay: 106.757 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 34.41 Mbit/s
95th percentile per-packet one-way delay: 112.882 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 29.87 Mbit/s
95th percentile per-packet one-way delay: 109.188 ms
Loss rate: 1.22%

Run 5: Report of TCP Cubic — Data Link

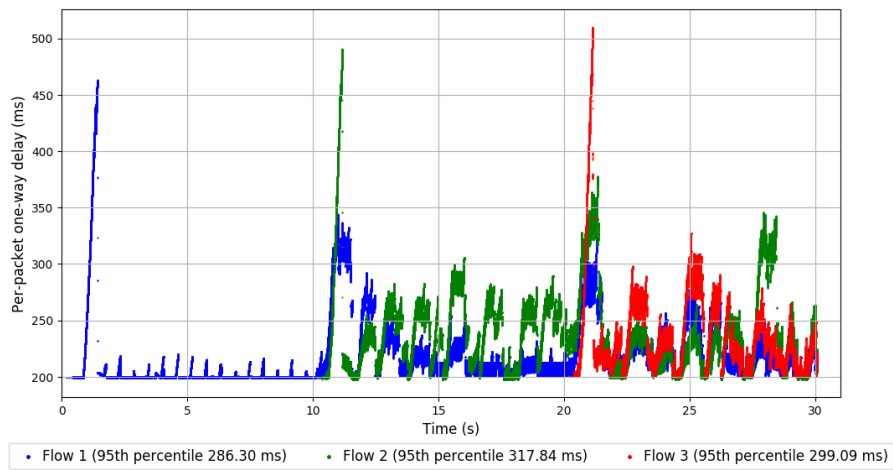
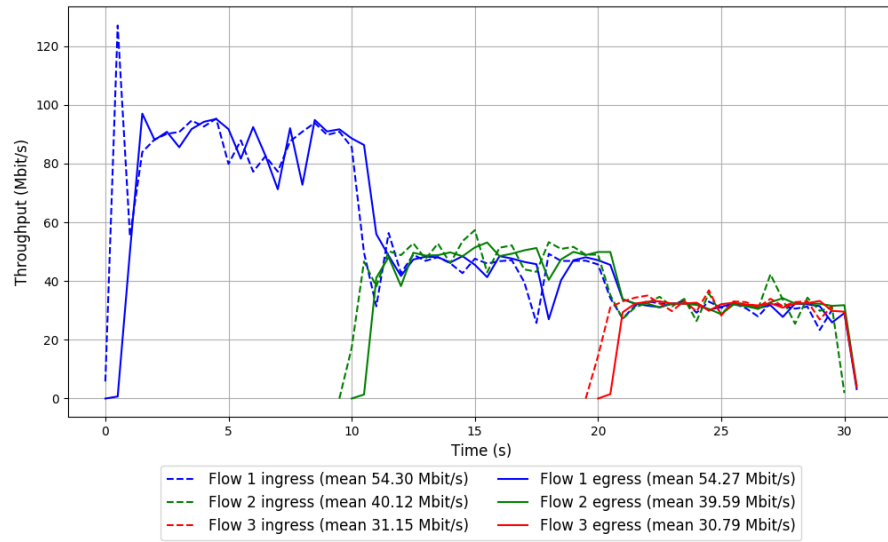


Run 1: Statistics of FillP

Start at: 2019-01-03 09:49:50
End at: 2019-01-03 09:50:20
Local clock offset: -0.922 ms
Remote clock offset: -130.263 ms

Below is generated by plot.py at 2019-01-03 11:44:57
Datalink statistics
-- Total of 3 flows:
Average throughput: 90.86 Mbit/s
95th percentile per-packet one-way delay: 300.470 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 54.27 Mbit/s
95th percentile per-packet one-way delay: 286.296 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 317.842 ms
Loss rate: 2.10%
-- Flow 3:
Average throughput: 30.79 Mbit/s
95th percentile per-packet one-way delay: 299.091 ms
Loss rate: 2.45%

Run 1: Report of FillP — Data Link



Run 2: Statistics of FillP

Start at: 2019-01-03 10:14:06

End at: 2019-01-03 10:14:36

Local clock offset: 2.104 ms

Remote clock offset: 6.132 ms

Below is generated by plot.py at 2019-01-03 11:45:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.11 Mbit/s

95th percentile per-packet one-way delay: 152.326 ms

Loss rate: 0.97%

-- Flow 1:

Average throughput: 59.53 Mbit/s

95th percentile per-packet one-way delay: 120.280 ms

Loss rate: 0.42%

-- Flow 2:

Average throughput: 35.60 Mbit/s

95th percentile per-packet one-way delay: 158.664 ms

Loss rate: 1.47%

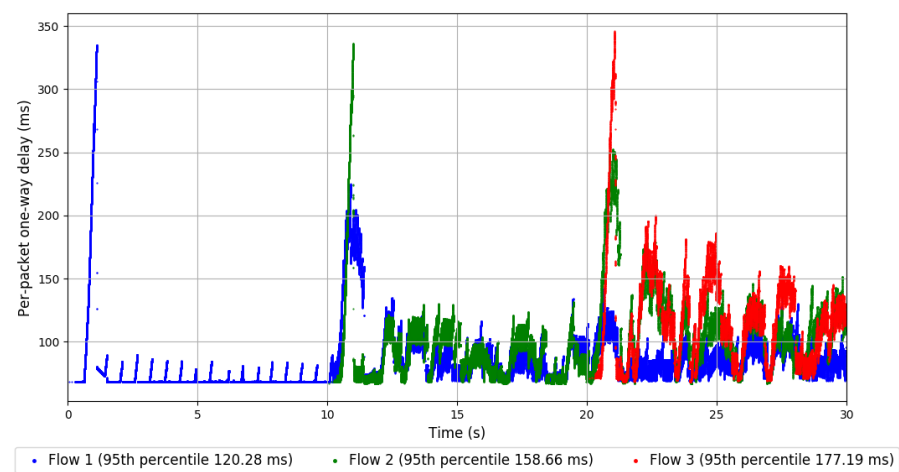
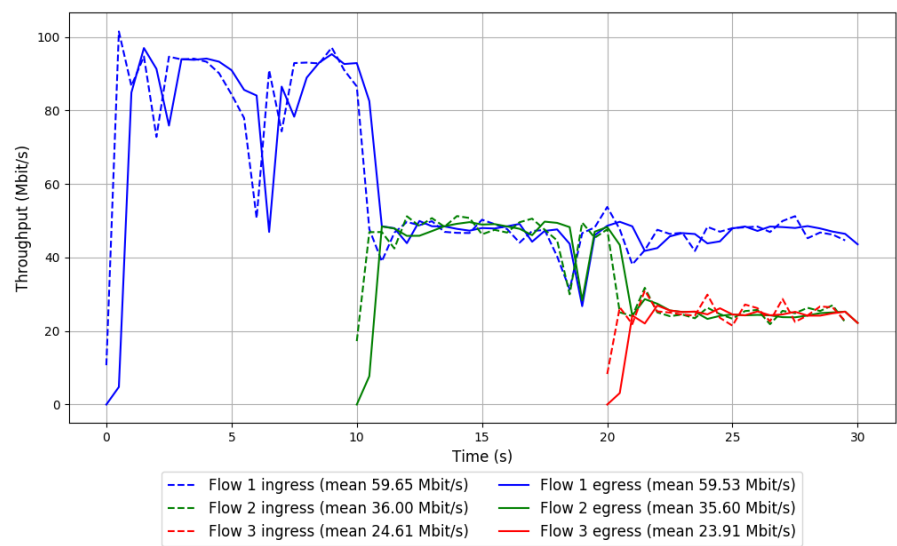
-- Flow 3:

Average throughput: 23.91 Mbit/s

95th percentile per-packet one-way delay: 177.193 ms

Loss rate: 3.50%

Run 2: Report of FillP — Data Link

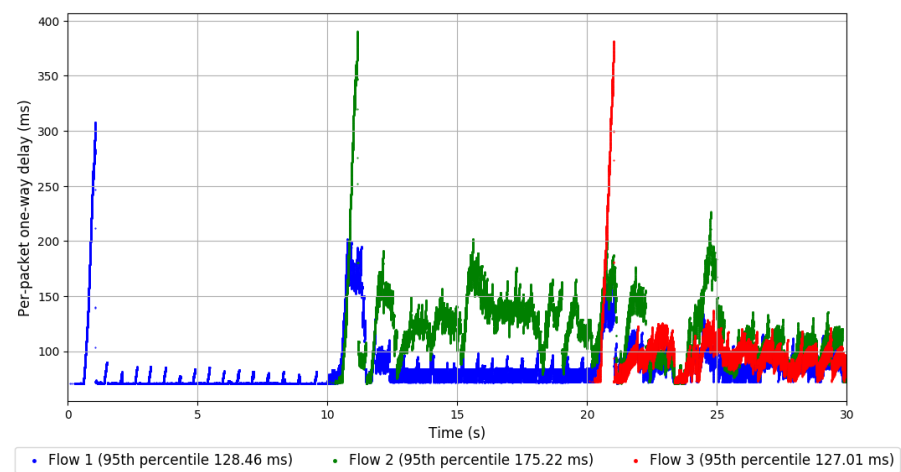
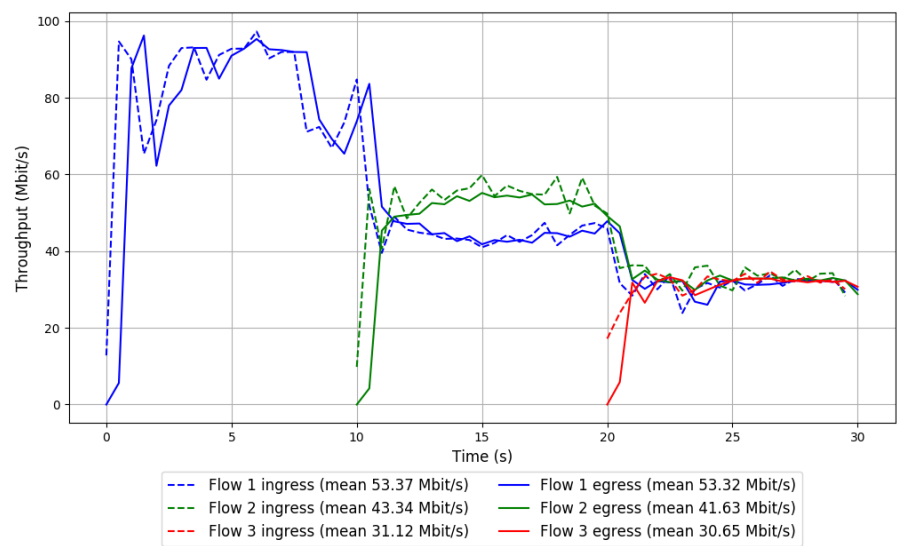


Run 3: Statistics of FillP

Start at: 2019-01-03 10:38:24
End at: 2019-01-03 10:38:54
Local clock offset: 2.662 ms
Remote clock offset: 12.722 ms

Below is generated by plot.py at 2019-01-03 11:45:28
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.15 Mbit/s
95th percentile per-packet one-way delay: 161.961 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 53.32 Mbit/s
95th percentile per-packet one-way delay: 128.463 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 41.63 Mbit/s
95th percentile per-packet one-way delay: 175.219 ms
Loss rate: 4.27%
-- Flow 3:
Average throughput: 30.65 Mbit/s
95th percentile per-packet one-way delay: 127.012 ms
Loss rate: 2.25%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2019-01-03 11:02:43

End at: 2019-01-03 11:03:13

Local clock offset: -0.89 ms

Remote clock offset: 18.23 ms

Below is generated by plot.py at 2019-01-03 11:45:33

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.56 Mbit/s

95th percentile per-packet one-way delay: 187.576 ms

Loss rate: 1.43%

-- Flow 1:

Average throughput: 52.53 Mbit/s

95th percentile per-packet one-way delay: 144.668 ms

Loss rate: 0.51%

-- Flow 2:

Average throughput: 48.69 Mbit/s

95th percentile per-packet one-way delay: 206.792 ms

Loss rate: 2.82%

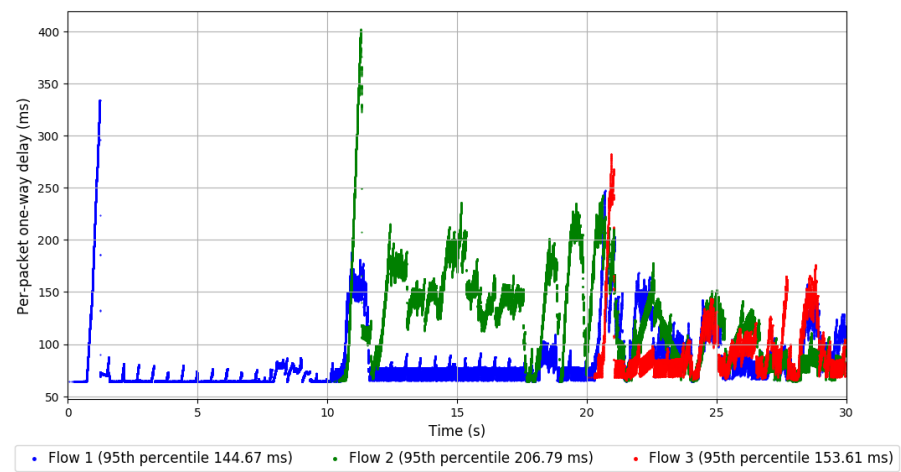
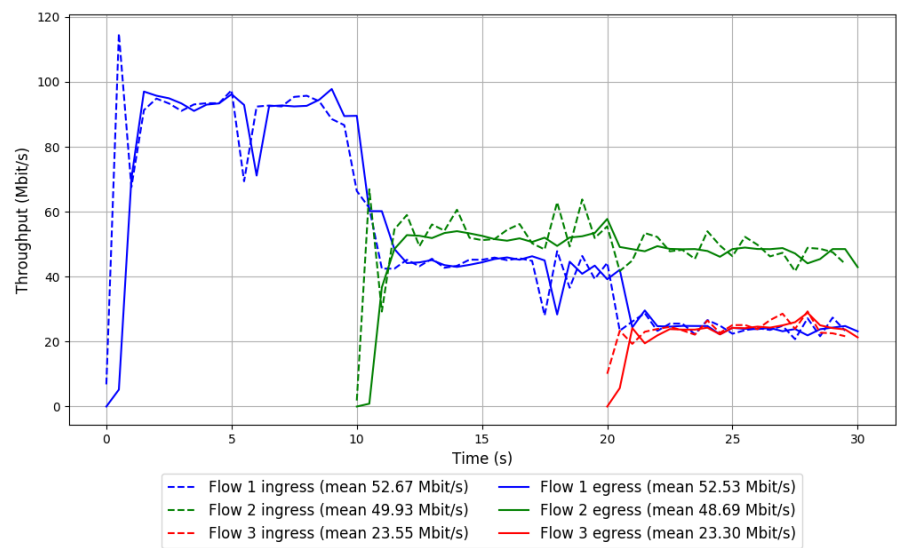
-- Flow 3:

Average throughput: 23.30 Mbit/s

95th percentile per-packet one-way delay: 153.609 ms

Loss rate: 1.74%

Run 4: Report of FillP — Data Link

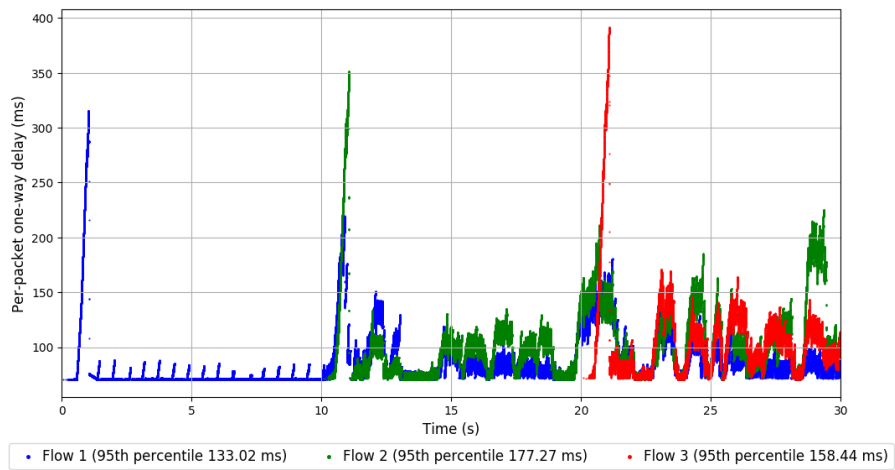
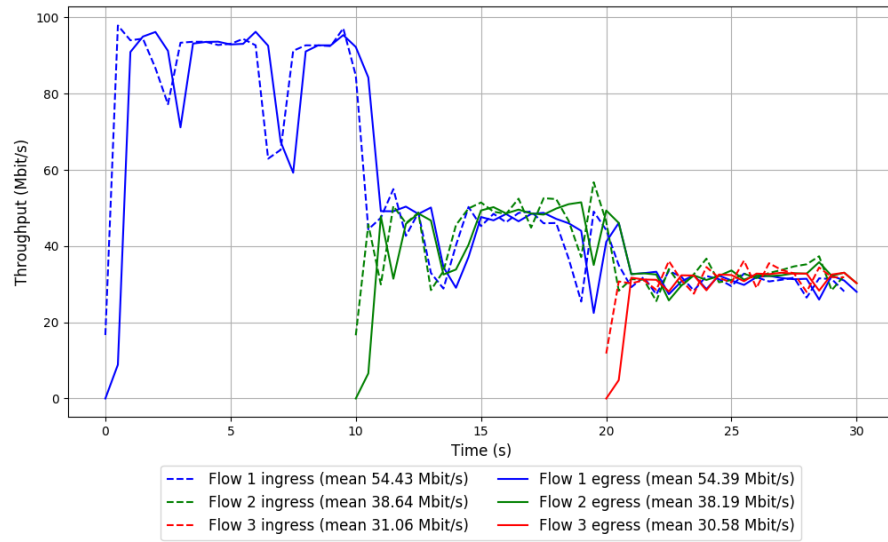


Run 5: Statistics of FillP

Start at: 2019-01-03 11:28:26
End at: 2019-01-03 11:28:56
Local clock offset: 1.767 ms
Remote clock offset: 17.725 ms

Below is generated by plot.py at 2019-01-03 11:45:42
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.89 Mbit/s
95th percentile per-packet one-way delay: 150.831 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 54.39 Mbit/s
95th percentile per-packet one-way delay: 133.020 ms
Loss rate: 0.30%
-- Flow 2:
Average throughput: 38.19 Mbit/s
95th percentile per-packet one-way delay: 177.266 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 30.58 Mbit/s
95th percentile per-packet one-way delay: 158.443 ms
Loss rate: 2.11%

Run 5: Report of FillP — Data Link

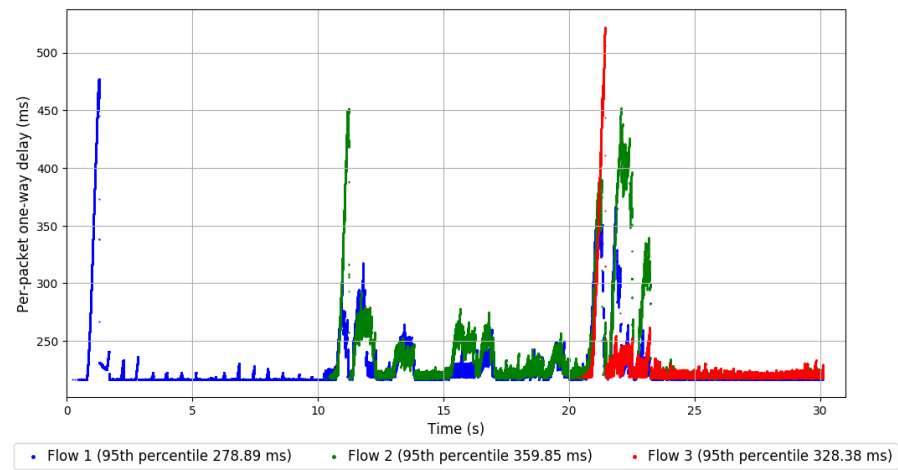
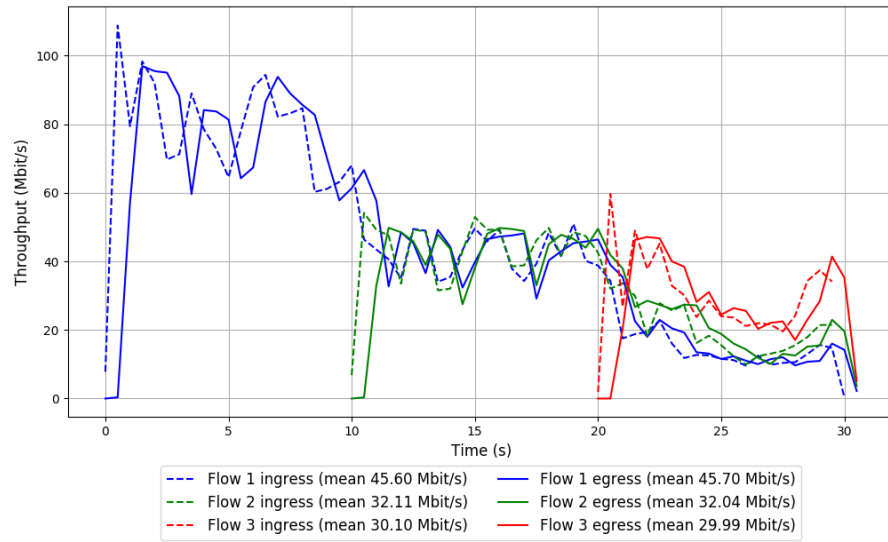



```
Run 1: Statistics of FillP-Sheep

Start at: 2019-01-03 09:47:22
End at: 2019-01-03 09:47:52
Local clock offset: 0.471 ms
Remote clock offset: -147.335 ms

# Below is generated by plot.py at 2019-01-03 11:45:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 76.85 Mbit/s
95th percentile per-packet one-way delay: 302.256 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 45.70 Mbit/s
95th percentile per-packet one-way delay: 278.889 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 32.04 Mbit/s
95th percentile per-packet one-way delay: 359.849 ms
Loss rate: 0.82%
-- Flow 3:
Average throughput: 29.99 Mbit/s
95th percentile per-packet one-way delay: 328.381 ms
Loss rate: 1.29%
```

Run 1: Report of FillP-Sheep — Data Link

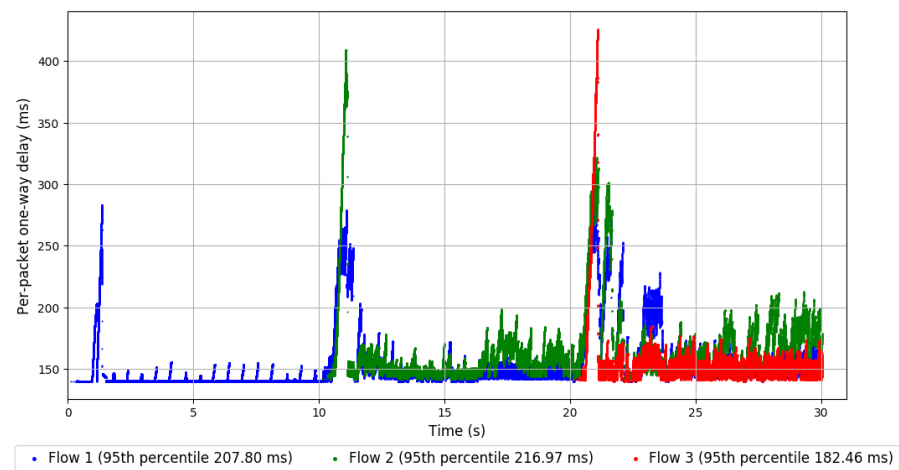
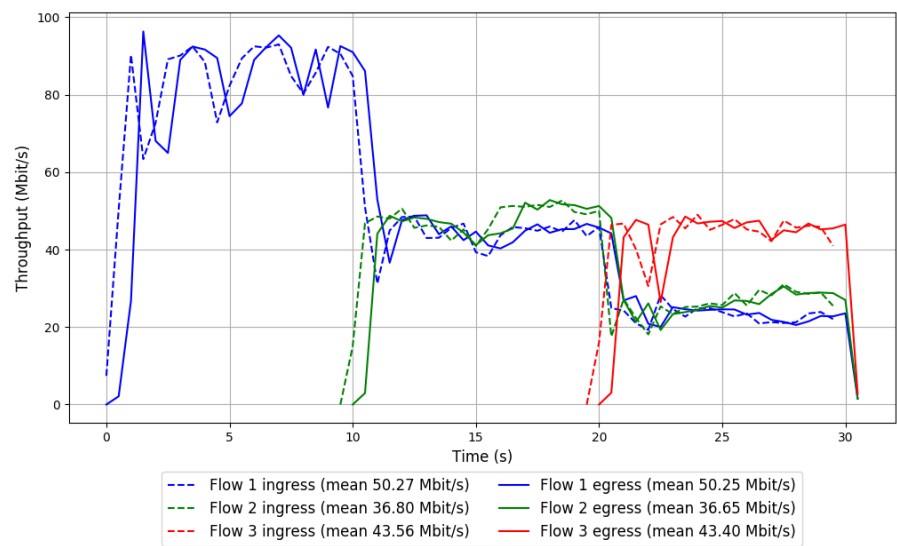


Run 2: Statistics of FillP-Sheep

Start at: 2019-01-03 10:11:38
End at: 2019-01-03 10:12:08
Local clock offset: 1.367 ms
Remote clock offset: -68.301 ms

Below is generated by plot.py at 2019-01-03 11:45:56
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.98 Mbit/s
95th percentile per-packet one-way delay: 207.801 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 50.25 Mbit/s
95th percentile per-packet one-way delay: 207.801 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 36.65 Mbit/s
95th percentile per-packet one-way delay: 216.968 ms
Loss rate: 0.76%
-- Flow 3:
Average throughput: 43.40 Mbit/s
95th percentile per-packet one-way delay: 182.459 ms
Loss rate: 0.94%

Run 2: Report of FillP-Sheep — Data Link

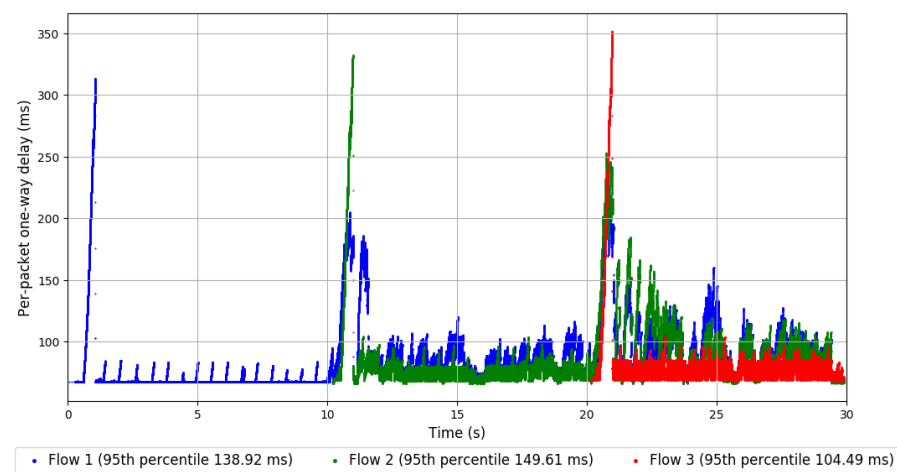
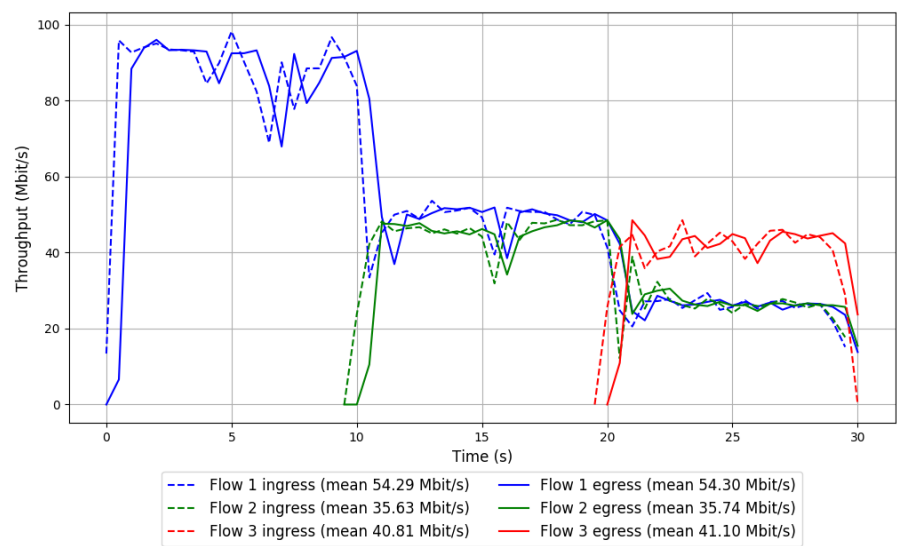


Run 3: Statistics of FillP-Sheep

Start at: 2019-01-03 10:35:53
End at: 2019-01-03 10:36:23
Local clock offset: 0.61 ms
Remote clock offset: 12.948 ms

Below is generated by plot.py at 2019-01-03 11:46:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.74 Mbit/s
95th percentile per-packet one-way delay: 140.477 ms
Loss rate: 0.54%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 138.918 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 35.74 Mbit/s
95th percentile per-packet one-way delay: 149.612 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 41.10 Mbit/s
95th percentile per-packet one-way delay: 104.491 ms
Loss rate: 1.19%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2019-01-03 11:00:12

End at: 2019-01-03 11:00:42

Local clock offset: -1.0 ms

Remote clock offset: 5.494 ms

Below is generated by plot.py at 2019-01-03 11:46:21

Datalink statistics

-- Total of 3 flows:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 136.415 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 51.88 Mbit/s

95th percentile per-packet one-way delay: 173.606 ms

Loss rate: 0.27%

-- Flow 2:

Average throughput: 47.47 Mbit/s

95th percentile per-packet one-way delay: 126.339 ms

Loss rate: 1.19%

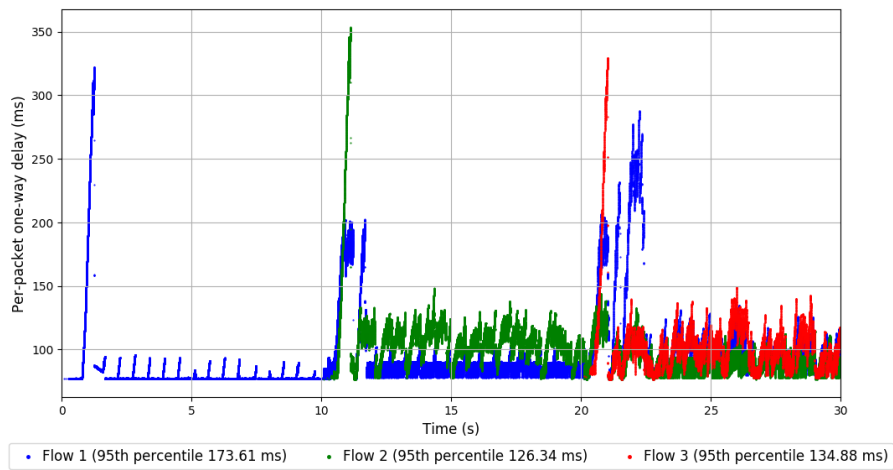
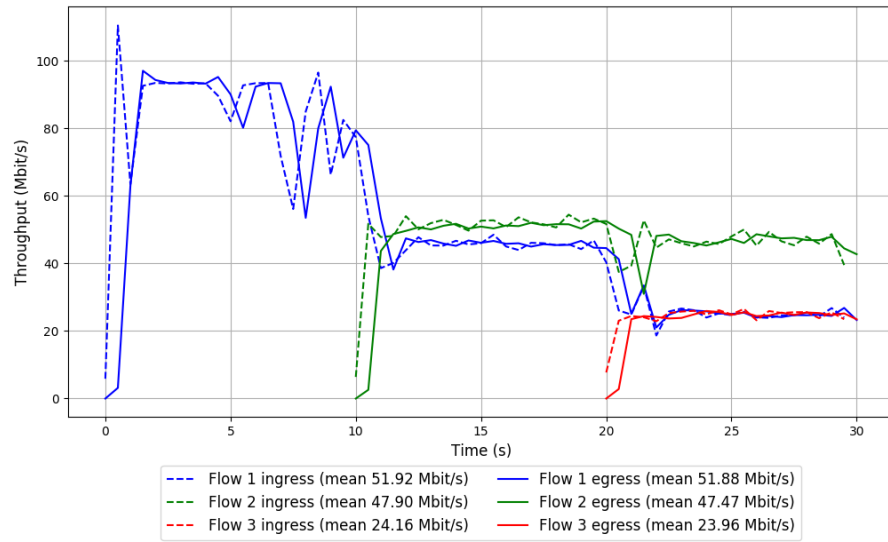
-- Flow 3:

Average throughput: 23.96 Mbit/s

95th percentile per-packet one-way delay: 134.875 ms

Loss rate: 1.57%

Run 4: Report of FillP-Sheep — Data Link

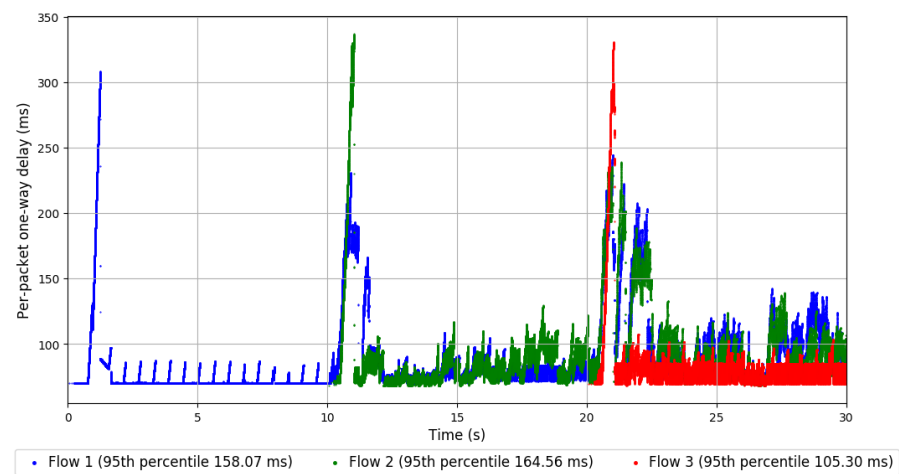
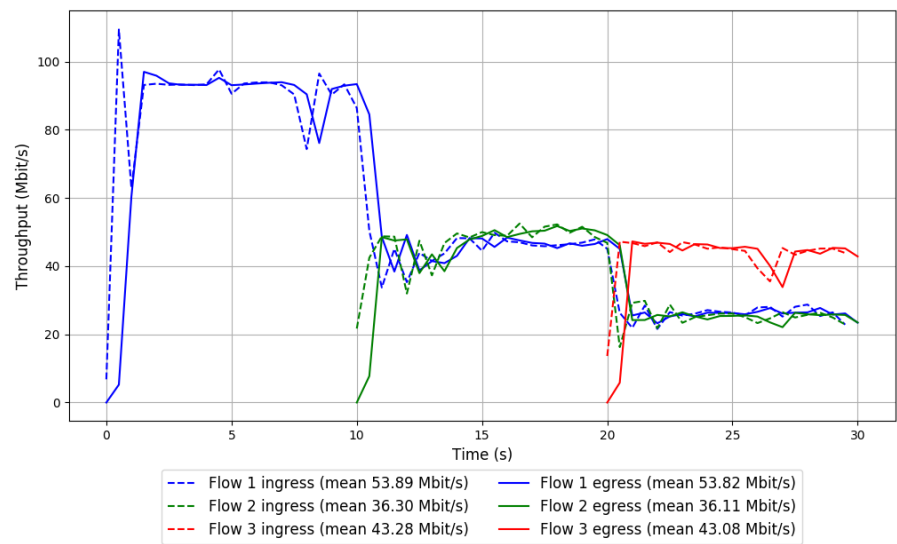


Run 5: Statistics of FillP-Sheep

Start at: 2019-01-03 11:26:02
End at: 2019-01-03 11:26:32
Local clock offset: 1.683 ms
Remote clock offset: 19.945 ms

Below is generated by plot.py at 2019-01-03 11:46:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 158.117 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 53.82 Mbit/s
95th percentile per-packet one-way delay: 158.070 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 36.11 Mbit/s
95th percentile per-packet one-way delay: 164.556 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 43.08 Mbit/s
95th percentile per-packet one-way delay: 105.298 ms
Loss rate: 0.99%

Run 5: Report of FillP-Sheep — Data Link

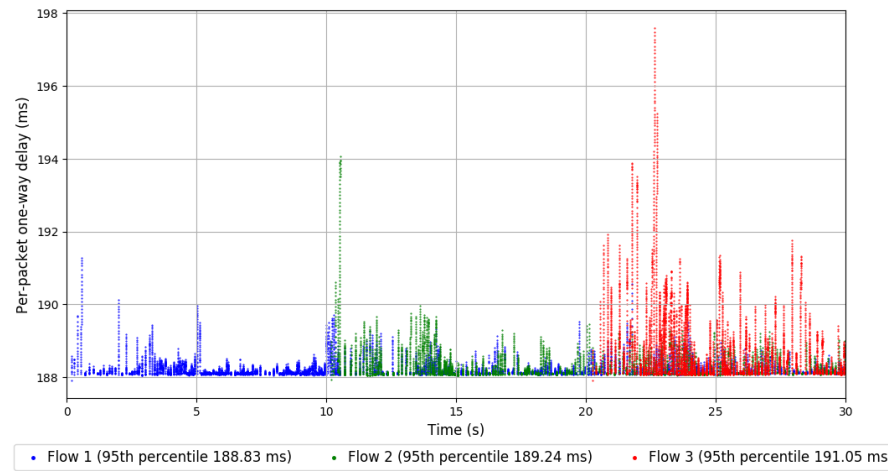
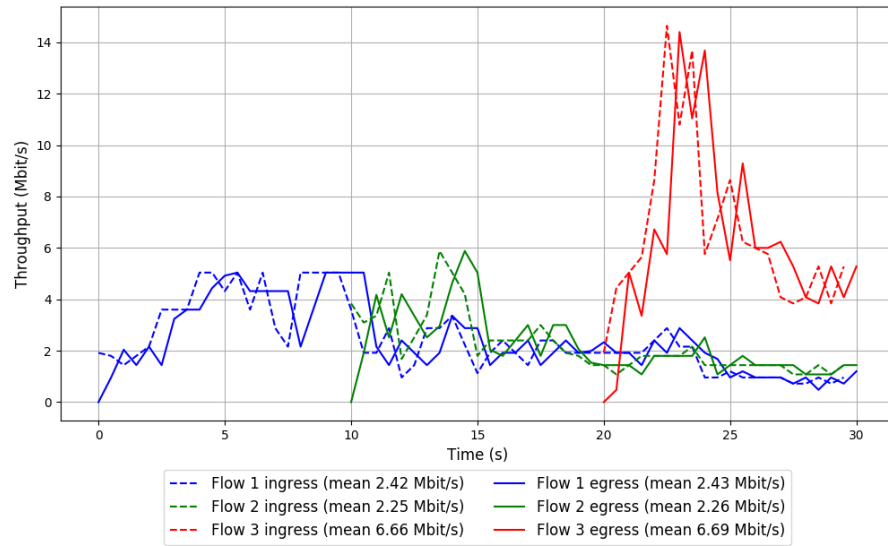


Run 1: Statistics of Indigo

Start at: 2019-01-03 09:43:34
End at: 2019-01-03 09:44:04
Local clock offset: 1.553 ms
Remote clock offset: -118.265 ms

Below is generated by plot.py at 2019-01-03 11:46:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 6.10 Mbit/s
95th percentile per-packet one-way delay: 190.029 ms
Loss rate: 0.49%
-- Flow 1:
Average throughput: 2.43 Mbit/s
95th percentile per-packet one-way delay: 188.834 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 189.240 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 191.049 ms
Loss rate: 0.92%

Run 1: Report of Indigo — Data Link

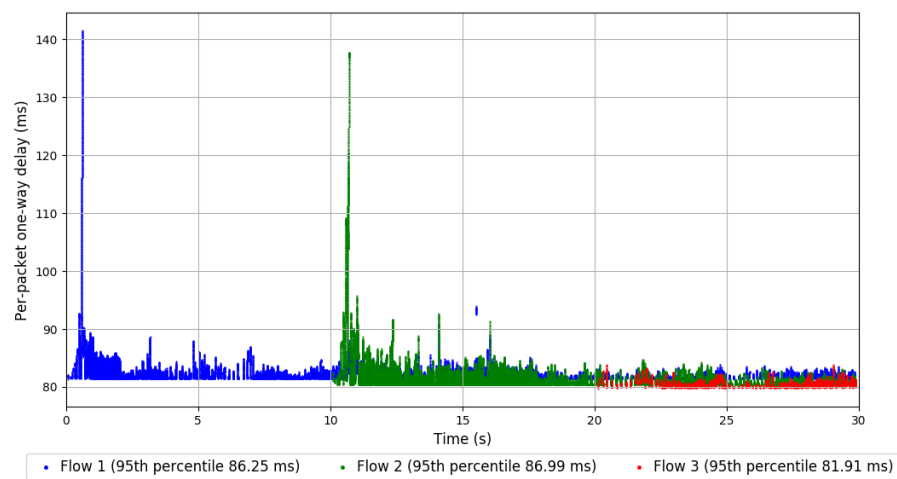
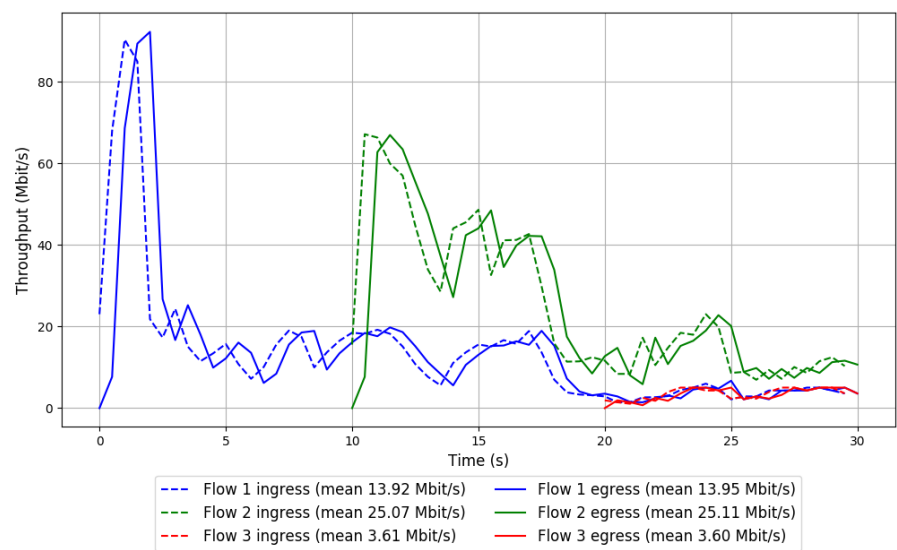


Run 2: Statistics of Indigo

Start at: 2019-01-03 10:07:45
End at: 2019-01-03 10:08:15
Local clock offset: 2.942 ms
Remote clock offset: -6.534 ms

Below is generated by plot.py at 2019-01-03 11:46:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 31.77 Mbit/s
95th percentile per-packet one-way delay: 86.412 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 13.95 Mbit/s
95th percentile per-packet one-way delay: 86.245 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 25.11 Mbit/s
95th percentile per-packet one-way delay: 86.993 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 81.910 ms
Loss rate: 1.02%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2019-01-03 10:31:58

End at: 2019-01-03 10:32:28

Local clock offset: 3.012 ms

Remote clock offset: 5.09 ms

Below is generated by plot.py at 2019-01-03 11:46:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 56.50 Mbit/s

95th percentile per-packet one-way delay: 79.693 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 27.52 Mbit/s

95th percentile per-packet one-way delay: 78.867 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 32.87 Mbit/s

95th percentile per-packet one-way delay: 79.801 ms

Loss rate: 0.31%

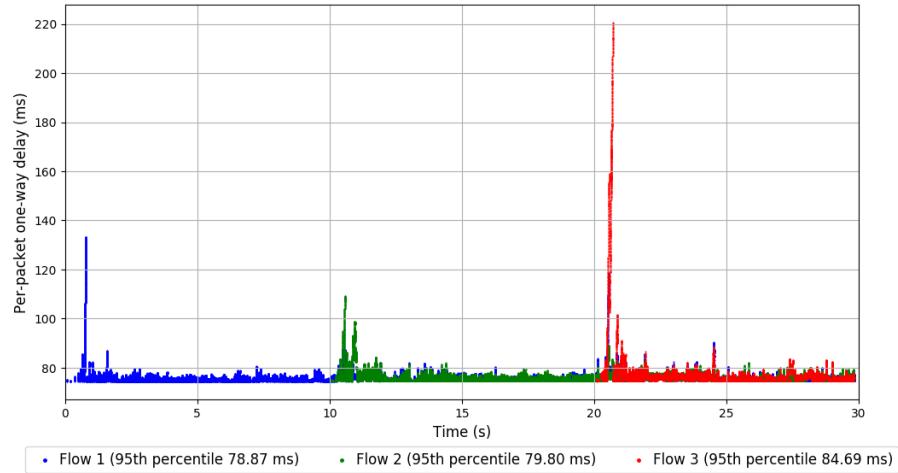
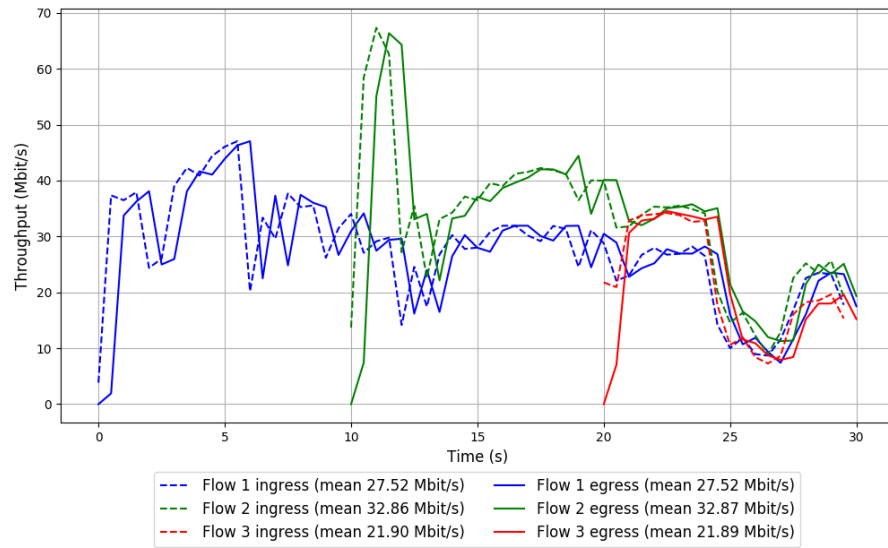
-- Flow 3:

Average throughput: 21.89 Mbit/s

95th percentile per-packet one-way delay: 84.685 ms

Loss rate: 0.79%

Run 3: Report of Indigo — Data Link

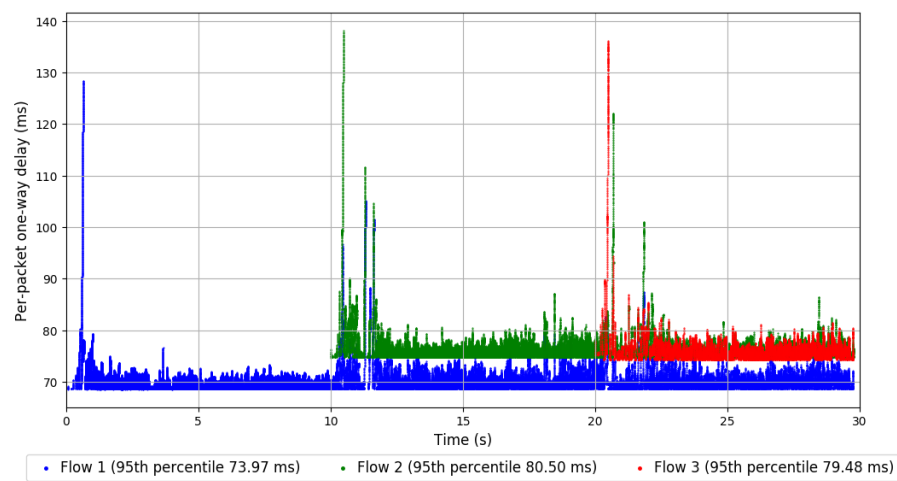
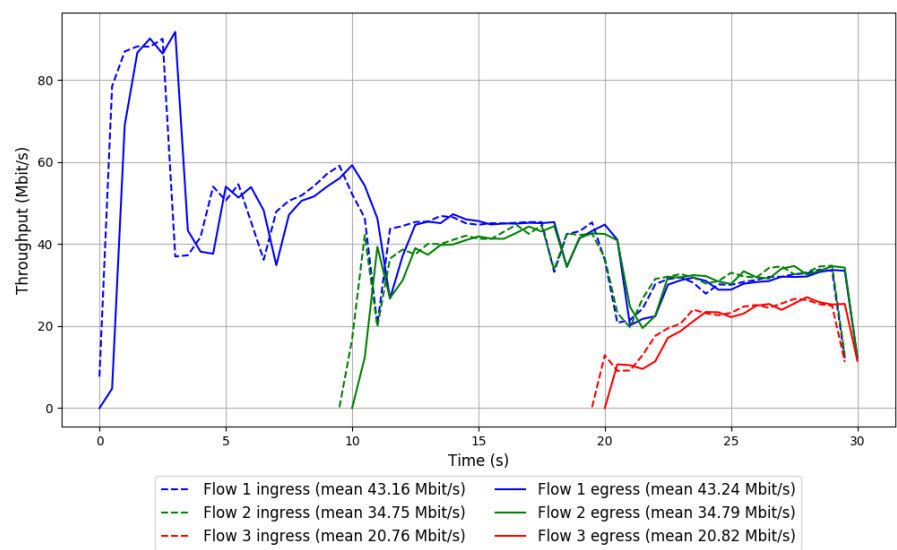


Run 4: Statistics of Indigo

Start at: 2019-01-03 10:56:08
End at: 2019-01-03 10:56:38
Local clock offset: 2.789 ms
Remote clock offset: 16.894 ms

Below is generated by plot.py at 2019-01-03 11:46:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 73.21 Mbit/s
95th percentile per-packet one-way delay: 78.399 ms
Loss rate: 0.32%
-- Flow 1:
Average throughput: 43.24 Mbit/s
95th percentile per-packet one-way delay: 73.972 ms
Loss rate: 0.18%
-- Flow 2:
Average throughput: 34.79 Mbit/s
95th percentile per-packet one-way delay: 80.502 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 20.82 Mbit/s
95th percentile per-packet one-way delay: 79.484 ms
Loss rate: 0.84%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2019-01-03 11:22:21

End at: 2019-01-03 11:22:51

Local clock offset: 0.485 ms

Remote clock offset: 8.244 ms

Below is generated by plot.py at 2019-01-03 11:46:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 55.97 Mbit/s

95th percentile per-packet one-way delay: 84.979 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 18.18 Mbit/s

95th percentile per-packet one-way delay: 82.452 ms

Loss rate: 0.25%

-- Flow 2:

Average throughput: 52.79 Mbit/s

95th percentile per-packet one-way delay: 85.811 ms

Loss rate: 0.42%

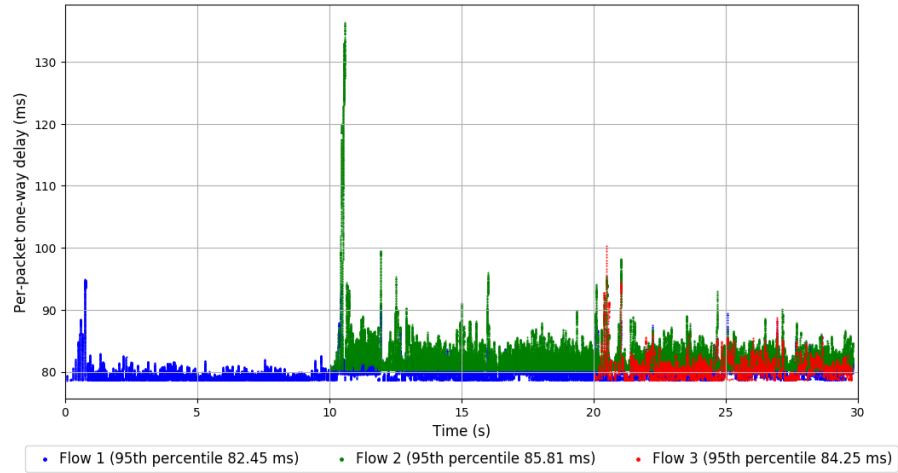
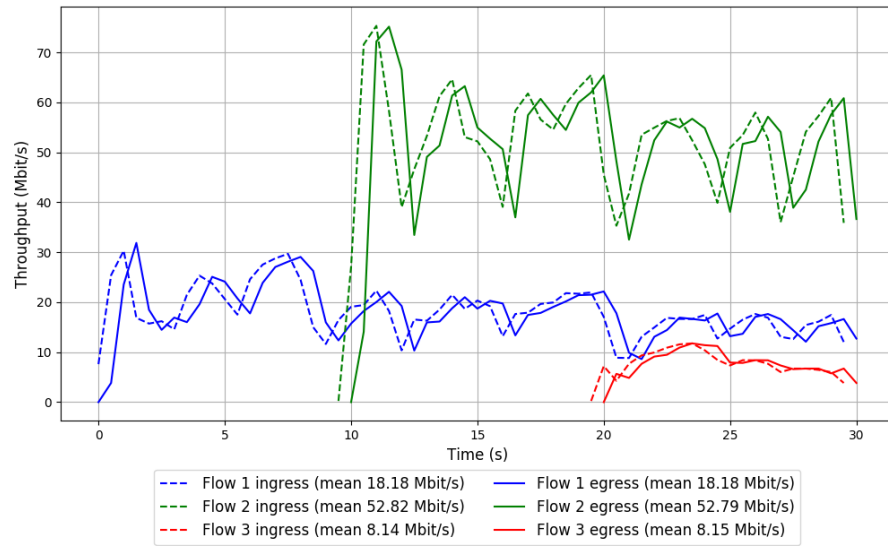
-- Flow 3:

Average throughput: 8.15 Mbit/s

95th percentile per-packet one-way delay: 84.251 ms

Loss rate: 0.60%

Run 5: Report of Indigo — Data Link

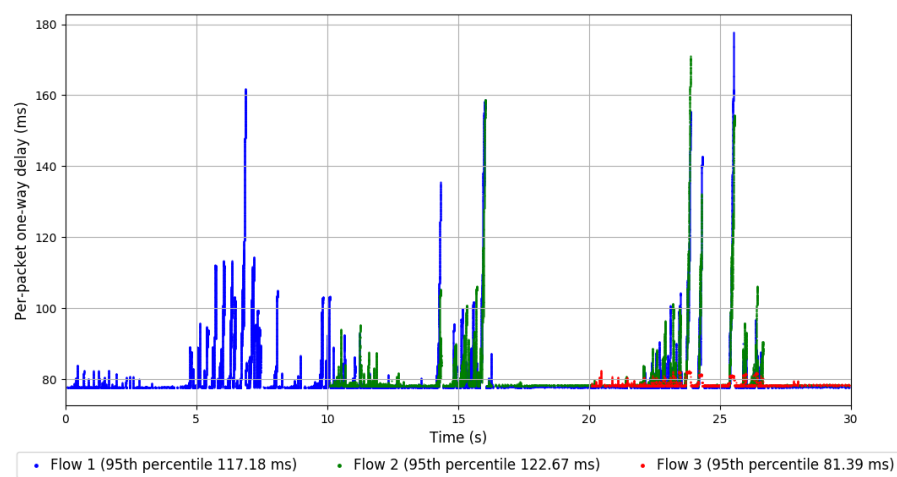
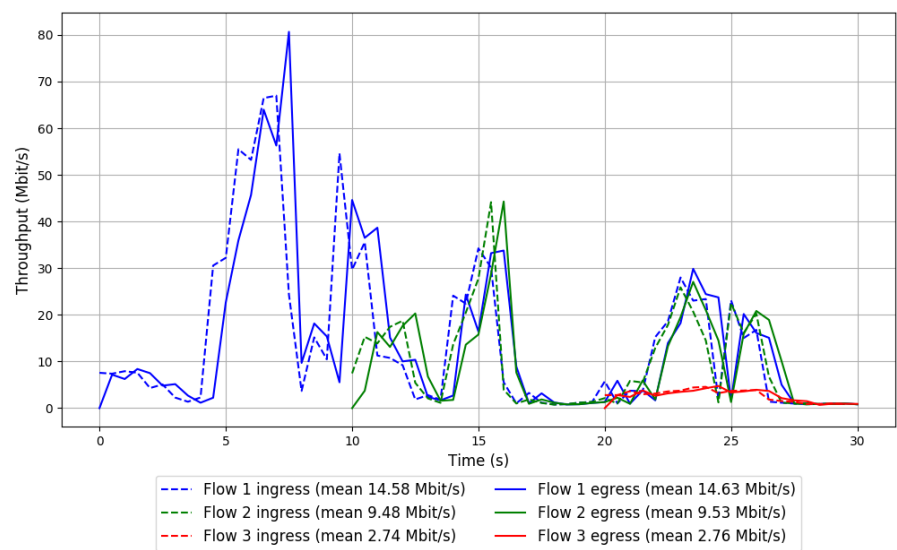


Run 1: Statistics of Indigo-MusesD

Start at: 2019-01-03 09:41:02
End at: 2019-01-03 09:41:32
Local clock offset: 2.17 ms
Remote clock offset: -7.482 ms

Below is generated by plot.py at 2019-01-03 11:46:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 21.87 Mbit/s
95th percentile per-packet one-way delay: 117.347 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 14.63 Mbit/s
95th percentile per-packet one-way delay: 117.177 ms
Loss rate: 0.04%
-- Flow 2:
Average throughput: 9.53 Mbit/s
95th percentile per-packet one-way delay: 122.667 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 81.386 ms
Loss rate: 0.38%

Run 1: Report of Indigo-MusesD — Data Link



Run 2: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:05:11

End at: 2019-01-03 10:05:41

Local clock offset: 3.036 ms

Remote clock offset: 5.42 ms

Below is generated by plot.py at 2019-01-03 11:46:32

Datalink statistics

-- Total of 3 flows:

Average throughput: 24.70 Mbit/s

95th percentile per-packet one-way delay: 114.103 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 10.59 Mbit/s

95th percentile per-packet one-way delay: 126.832 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 91.817 ms

Loss rate: 0.10%

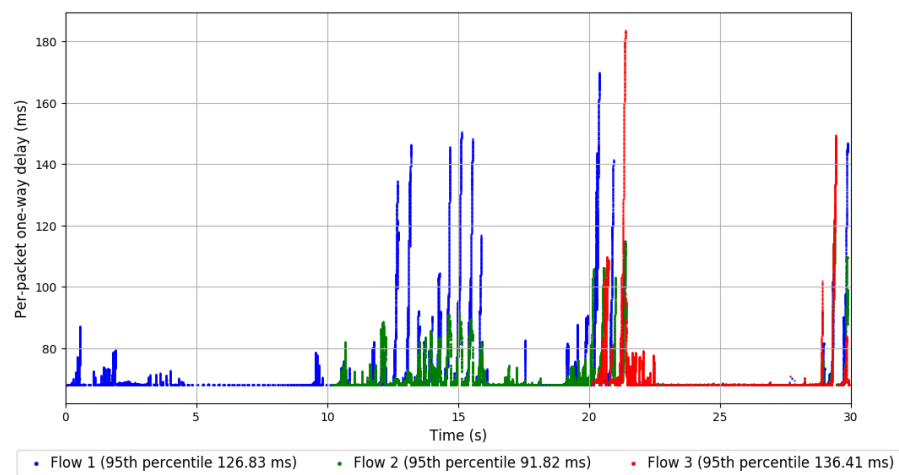
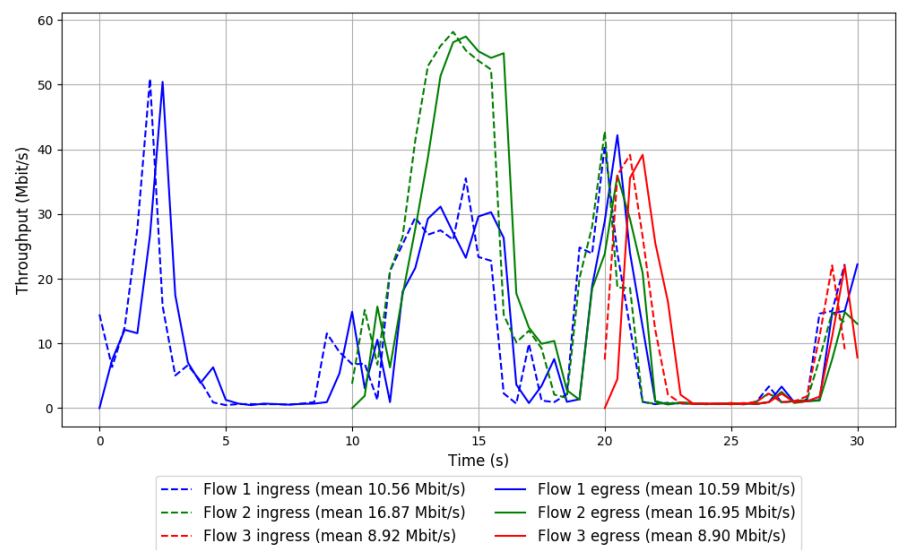
-- Flow 3:

Average throughput: 8.90 Mbit/s

95th percentile per-packet one-way delay: 136.413 ms

Loss rate: 0.88%

Run 2: Report of Indigo-MusesD — Data Link

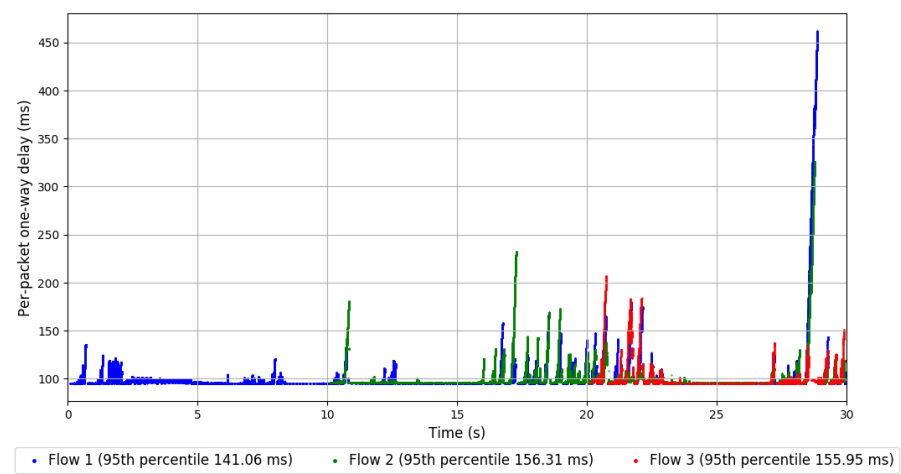
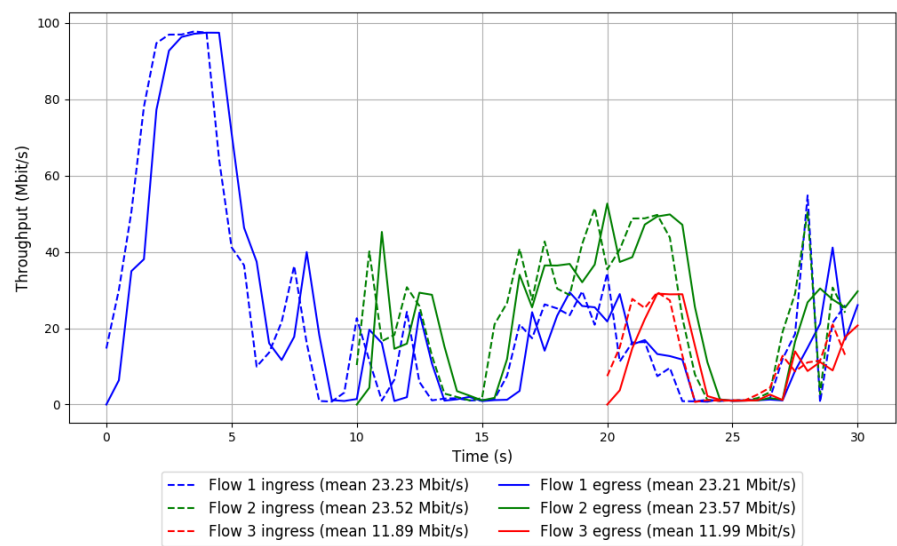


Run 3: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:29:04
End at: 2019-01-03 10:29:34
Local clock offset: 2.562 ms
Remote clock offset: -15.776 ms

Below is generated by plot.py at 2019-01-03 11:46:44
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.79 Mbit/s
95th percentile per-packet one-way delay: 148.907 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 23.21 Mbit/s
95th percentile per-packet one-way delay: 141.063 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 23.57 Mbit/s
95th percentile per-packet one-way delay: 156.313 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 155.952 ms
Loss rate: 0.15%

Run 3: Report of Indigo-MusesD — Data Link

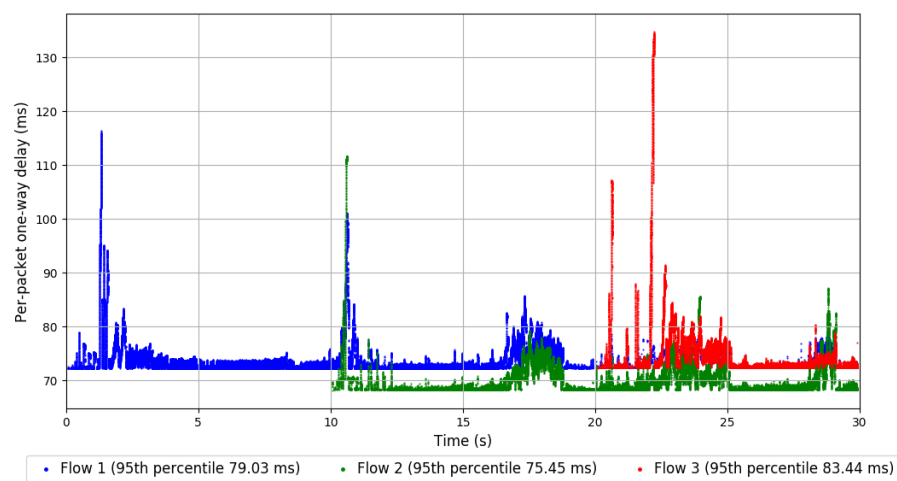
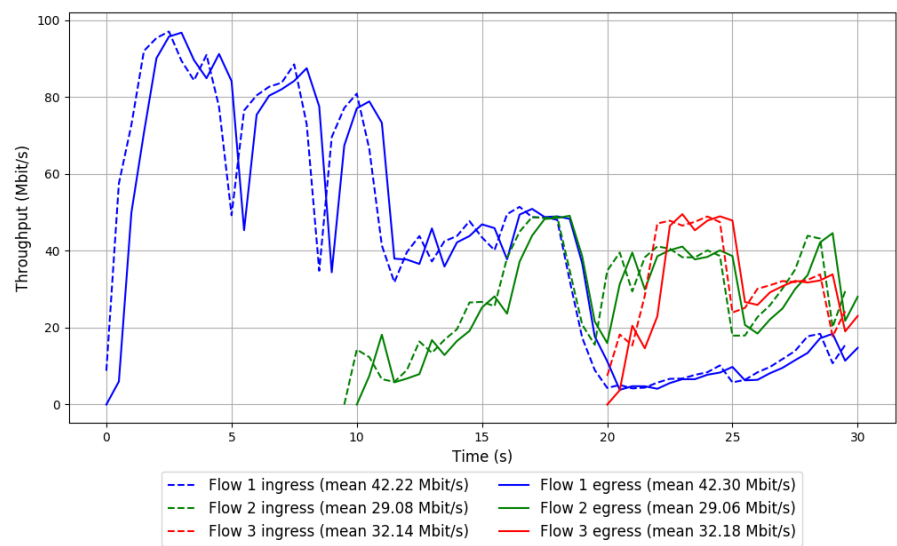


Run 4: Statistics of Indigo-MusesD

Start at: 2019-01-03 10:53:39
End at: 2019-01-03 10:54:09
Local clock offset: 0.511 ms
Remote clock offset: 16.214 ms

Below is generated by plot.py at 2019-01-03 11:47:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.22 Mbit/s
95th percentile per-packet one-way delay: 79.218 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 42.30 Mbit/s
95th percentile per-packet one-way delay: 79.025 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 29.06 Mbit/s
95th percentile per-packet one-way delay: 75.447 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 32.18 Mbit/s
95th percentile per-packet one-way delay: 83.440 ms
Loss rate: 0.74%

Run 4: Report of Indigo-MusesD — Data Link

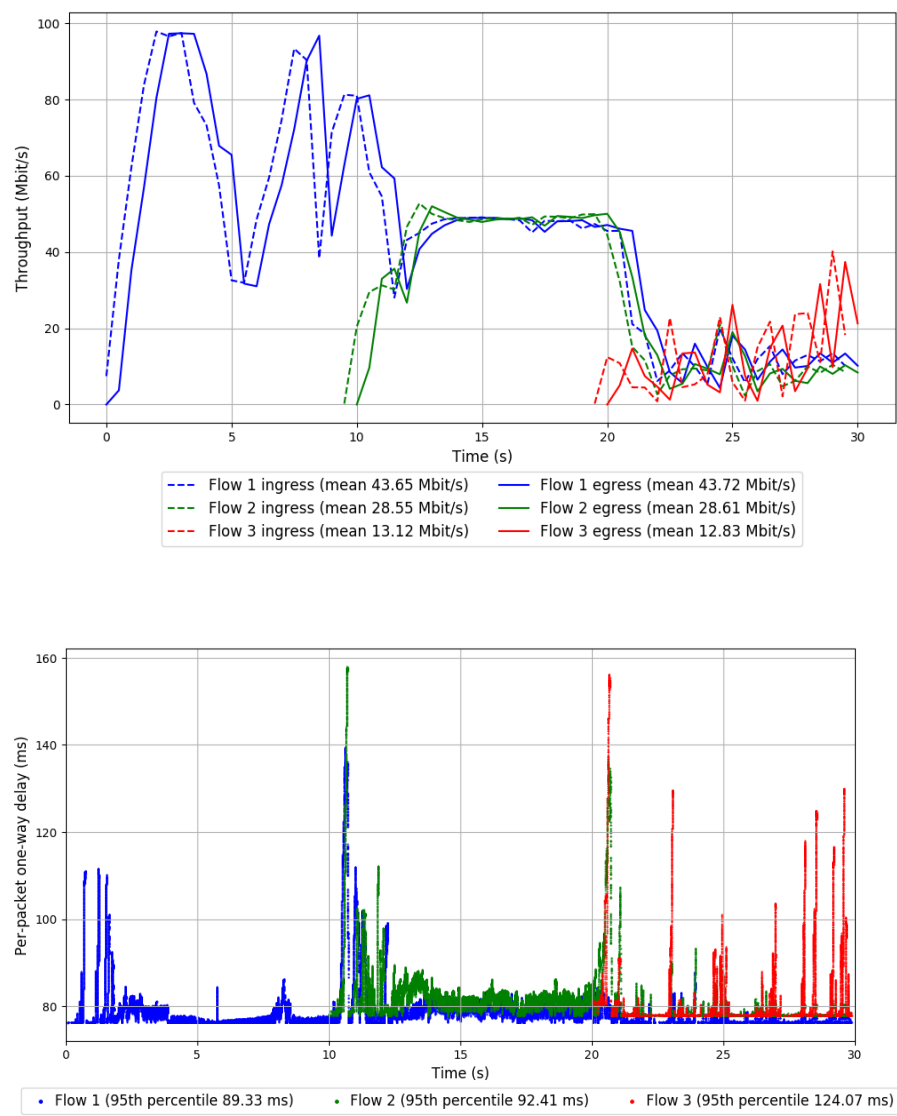


Run 5: Statistics of Indigo-MusesD

Start at: 2019-01-03 11:19:40
End at: 2019-01-03 11:20:10
Local clock offset: 1.415 ms
Remote clock offset: 11.209 ms

Below is generated by plot.py at 2019-01-03 11:47:03
Datalink statistics
-- Total of 3 flows:
Average throughput: 67.01 Mbit/s
95th percentile per-packet one-way delay: 95.264 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 43.72 Mbit/s
95th percentile per-packet one-way delay: 89.327 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 28.61 Mbit/s
95th percentile per-packet one-way delay: 92.412 ms
Loss rate: 0.18%
-- Flow 3:
Average throughput: 12.83 Mbit/s
95th percentile per-packet one-way delay: 124.067 ms
Loss rate: 2.94%

Run 5: Report of Indigo-MusesD — Data Link

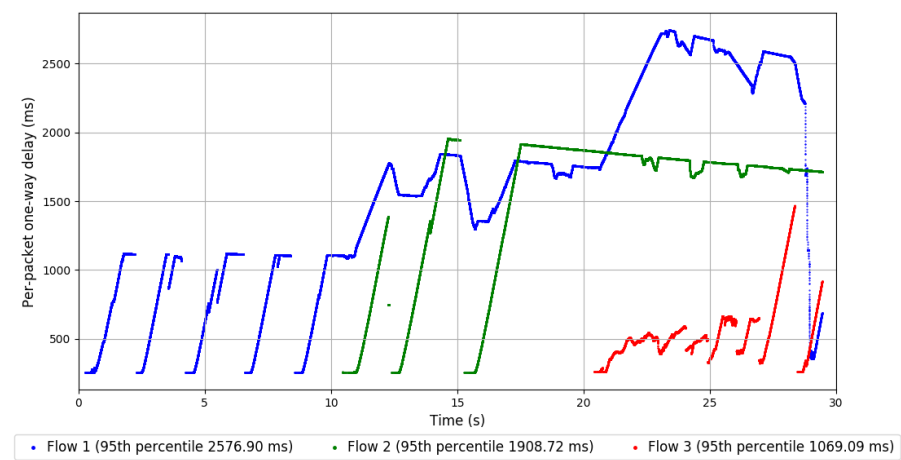
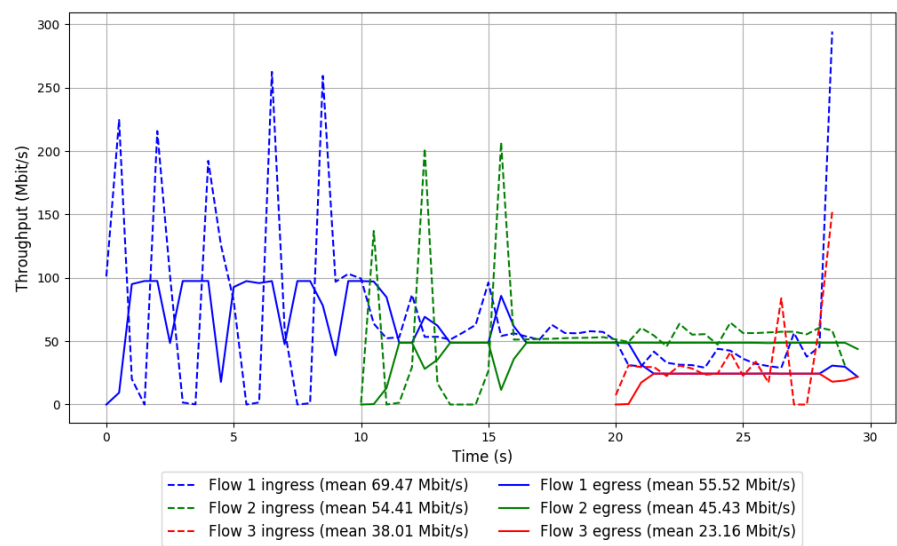


Run 1: Statistics of Indigo-MusesT

Start at: 2019-01-03 09:42:15
End at: 2019-01-03 09:42:45
Local clock offset: 2.125 ms
Remote clock offset: -184.276 ms

Below is generated by plot.py at 2019-01-03 11:47:25
Datalink statistics
-- Total of 3 flows:
Average throughput: 92.25 Mbit/s
95th percentile per-packet one-way delay: 2441.700 ms
Loss rate: 19.90%
-- Flow 1:
Average throughput: 55.52 Mbit/s
95th percentile per-packet one-way delay: 2576.903 ms
Loss rate: 19.13%
-- Flow 2:
Average throughput: 45.43 Mbit/s
95th percentile per-packet one-way delay: 1908.722 ms
Loss rate: 16.81%
-- Flow 3:
Average throughput: 23.16 Mbit/s
95th percentile per-packet one-way delay: 1069.089 ms
Loss rate: 34.73%

Run 1: Report of Indigo-MusesT — Data Link



Run 2: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:06:24

End at: 2019-01-03 10:06:54

Local clock offset: 3.055 ms

Remote clock offset: 4.198 ms

Below is generated by plot.py at 2019-01-03 11:47:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 92.42 Mbit/s

95th percentile per-packet one-way delay: 2167.769 ms

Loss rate: 12.13%

-- Flow 1:

Average throughput: 56.68 Mbit/s

95th percentile per-packet one-way delay: 1698.949 ms

Loss rate: 9.75%

-- Flow 2:

Average throughput: 39.19 Mbit/s

95th percentile per-packet one-way delay: 2305.365 ms

Loss rate: 17.02%

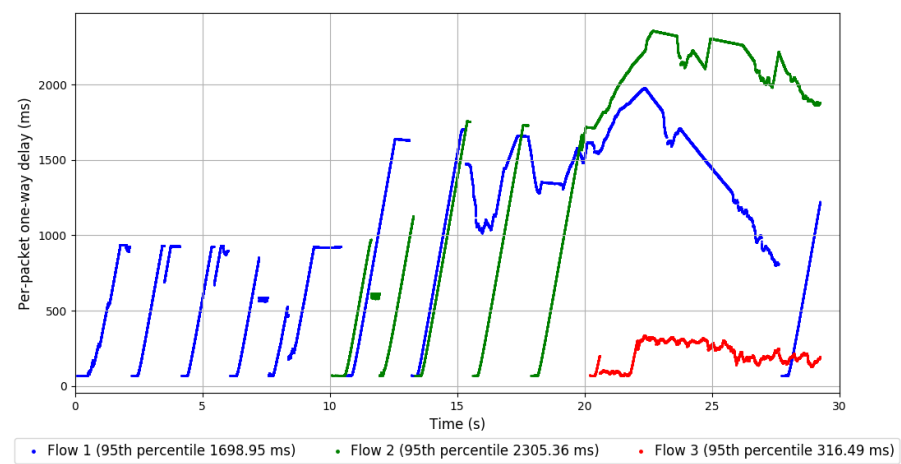
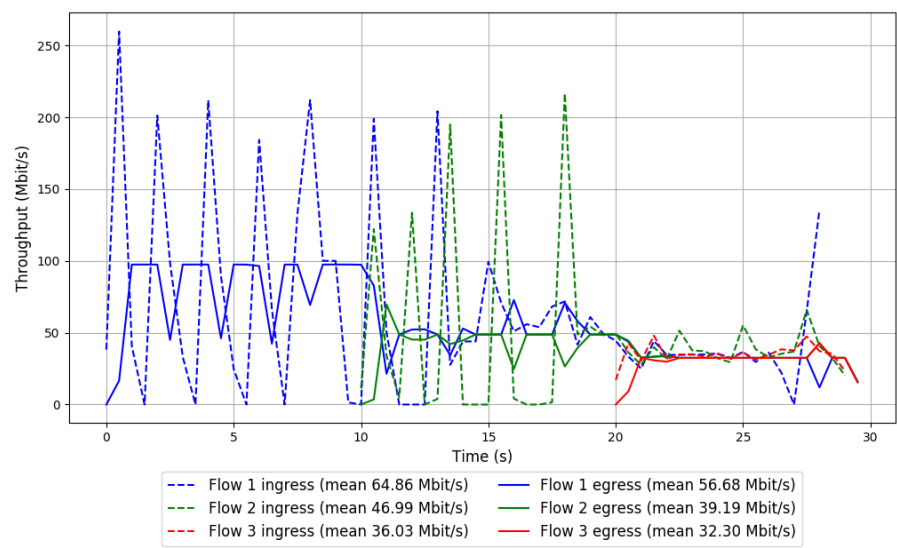
-- Flow 3:

Average throughput: 32.30 Mbit/s

95th percentile per-packet one-way delay: 316.489 ms

Loss rate: 11.90%

Run 2: Report of Indigo-MusesT — Data Link



Run 3: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:30:22

End at: 2019-01-03 10:30:52

Local clock offset: 0.398 ms

Remote clock offset: 9.568 ms

Below is generated by plot.py at 2019-01-03 11:47:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 90.44 Mbit/s

95th percentile per-packet one-way delay: 1775.977 ms

Loss rate: 14.61%

-- Flow 1:

Average throughput: 55.17 Mbit/s

95th percentile per-packet one-way delay: 387.984 ms

Loss rate: 5.94%

-- Flow 2:

Average throughput: 39.42 Mbit/s

95th percentile per-packet one-way delay: 1996.701 ms

Loss rate: 18.37%

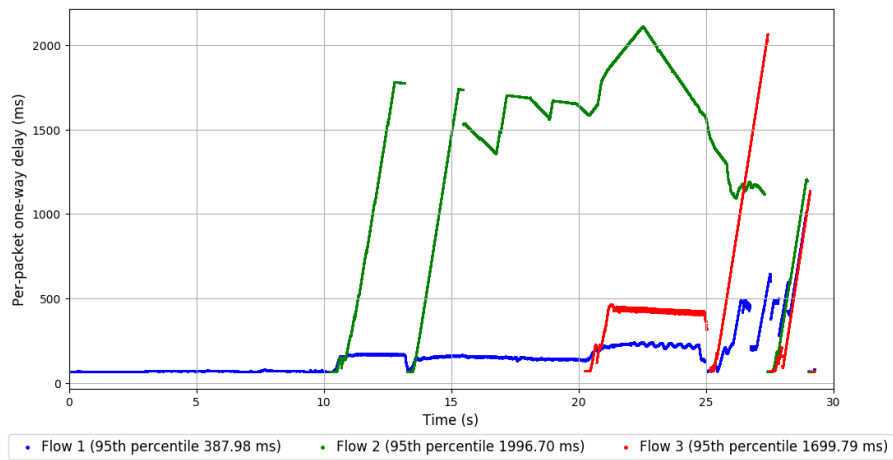
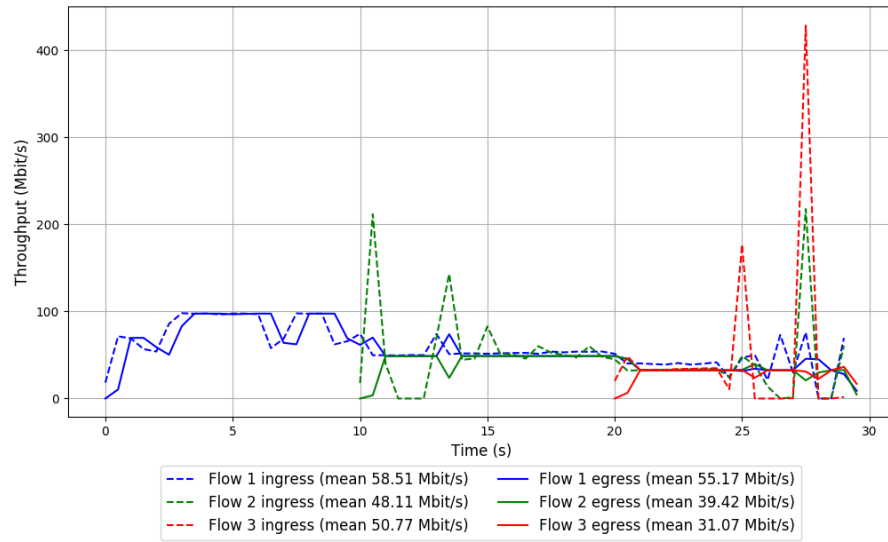
-- Flow 3:

Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 1699.789 ms

Loss rate: 39.34%

Run 3: Report of Indigo-MusesT — Data Link

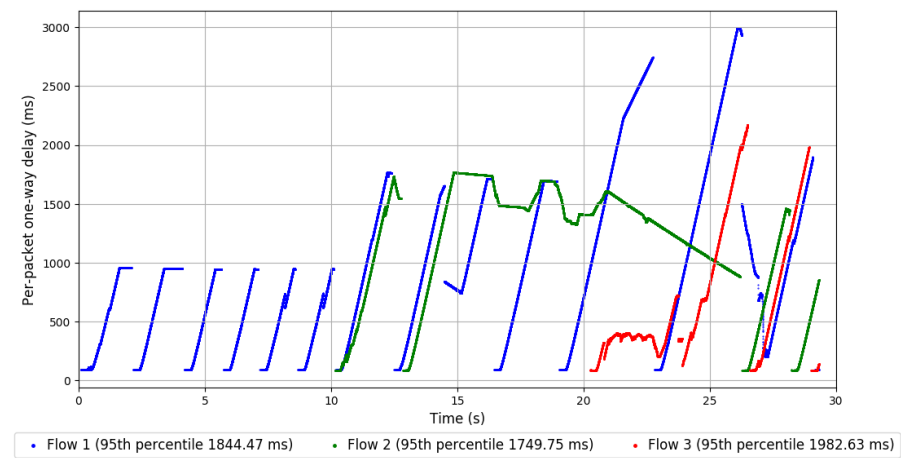
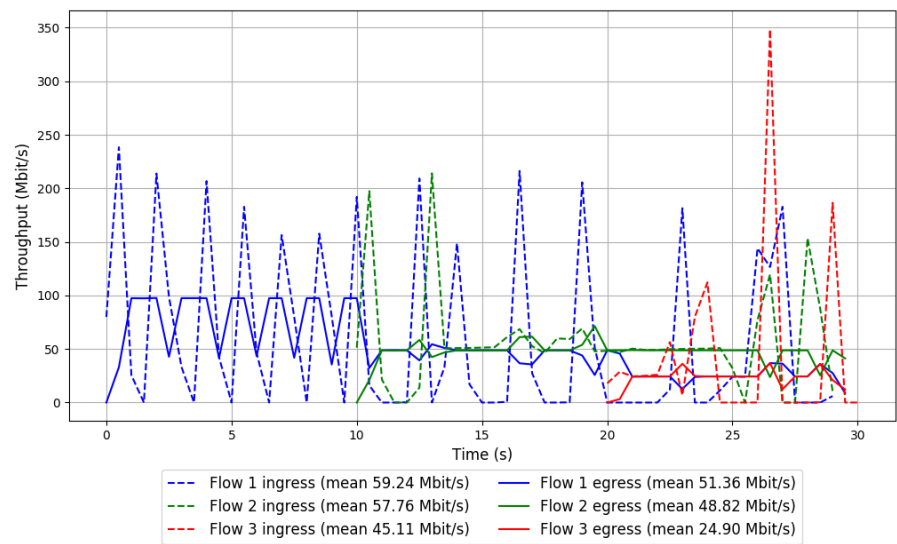


Run 4: Statistics of Indigo-MusesT

Start at: 2019-01-03 10:54:53
End at: 2019-01-03 10:55:23
Local clock offset: 0.063 ms
Remote clock offset: -1.308 ms

Below is generated by plot.py at 2019-01-03 11:47:35
Datalink statistics
-- Total of 3 flows:
Average throughput: 91.07 Mbit/s
95th percentile per-packet one-way delay: 1760.513 ms
Loss rate: 19.08%
-- Flow 1:
Average throughput: 51.36 Mbit/s
95th percentile per-packet one-way delay: 1844.472 ms
Loss rate: 13.54%
-- Flow 2:
Average throughput: 48.82 Mbit/s
95th percentile per-packet one-way delay: 1749.748 ms
Loss rate: 14.70%
-- Flow 3:
Average throughput: 24.90 Mbit/s
95th percentile per-packet one-way delay: 1982.632 ms
Loss rate: 50.67%

Run 4: Report of Indigo-MusesT — Data Link

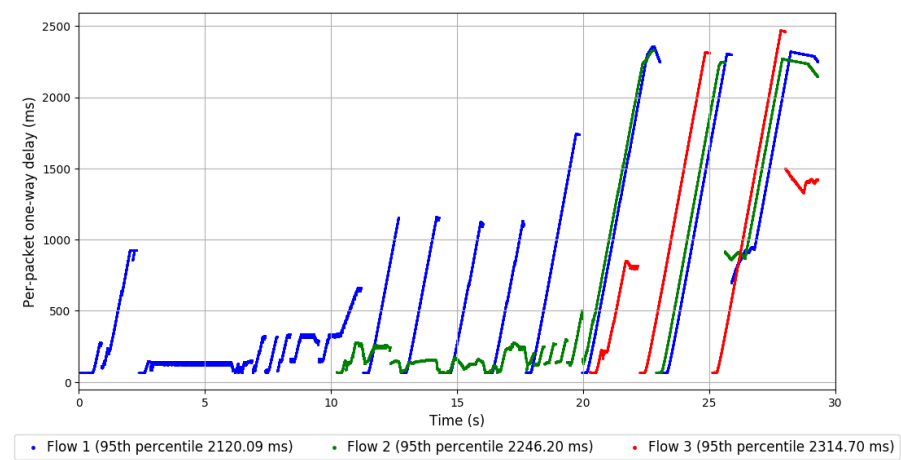
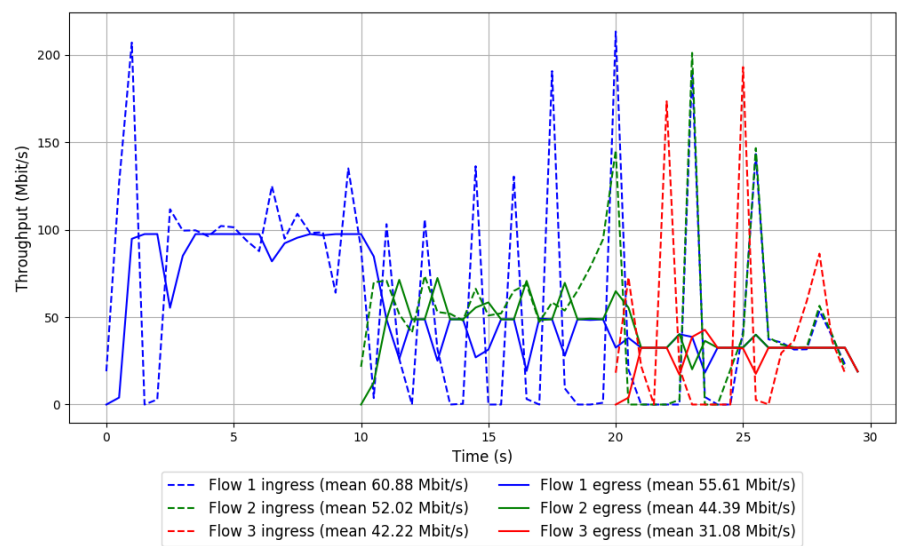


Run 5: Statistics of Indigo-MusesT

Start at: 2019-01-03 11:20:59
End at: 2019-01-03 11:21:29
Local clock offset: -0.164 ms
Remote clock offset: 19.931 ms

Below is generated by plot.py at 2019-01-03 11:47:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 2243.225 ms
Loss rate: 13.01%
-- Flow 1:
Average throughput: 55.61 Mbit/s
95th percentile per-packet one-way delay: 2120.085 ms
Loss rate: 8.88%
-- Flow 2:
Average throughput: 44.39 Mbit/s
95th percentile per-packet one-way delay: 2246.202 ms
Loss rate: 15.01%
-- Flow 3:
Average throughput: 31.08 Mbit/s
95th percentile per-packet one-way delay: 2314.702 ms
Loss rate: 27.00%

Run 5: Report of Indigo-MusesT — Data Link

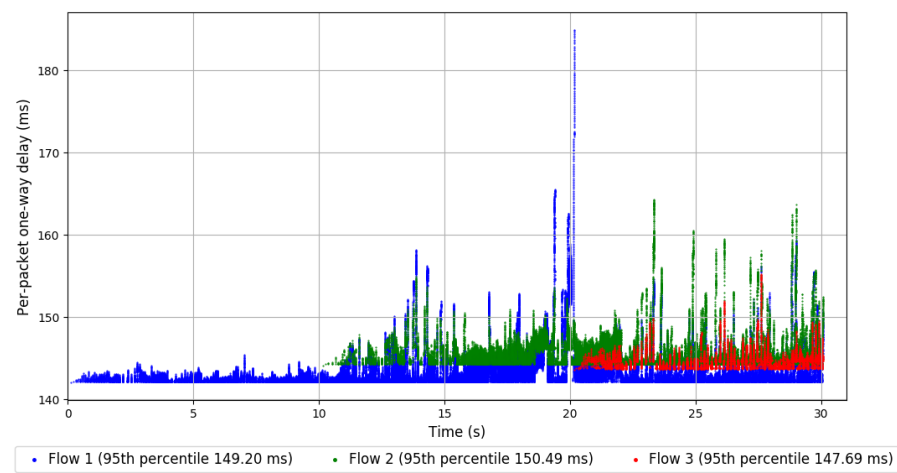
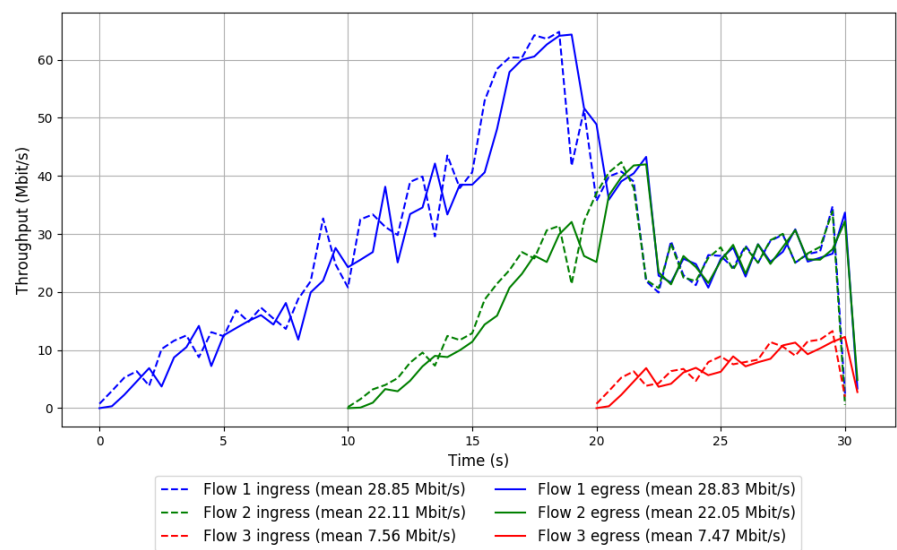



```
Run 1: Statistics of LEDBAT

Start at: 2019-01-03 09:51:20
End at: 2019-01-03 09:51:50
Local clock offset: 0.283 ms
Remote clock offset: -73.233 ms

# Below is generated by plot.py at 2019-01-03 11:47:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.97 Mbit/s
95th percentile per-packet one-way delay: 149.585 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 28.83 Mbit/s
95th percentile per-packet one-way delay: 149.197 ms
Loss rate: 0.52%
-- Flow 2:
Average throughput: 22.05 Mbit/s
95th percentile per-packet one-way delay: 150.485 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 7.47 Mbit/s
95th percentile per-packet one-way delay: 147.693 ms
Loss rate: 2.52%
```

Run 1: Report of LEDBAT — Data Link

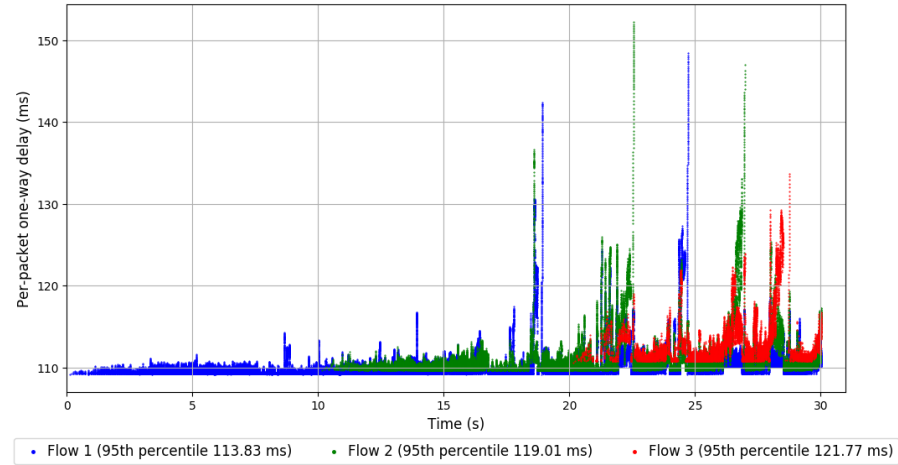
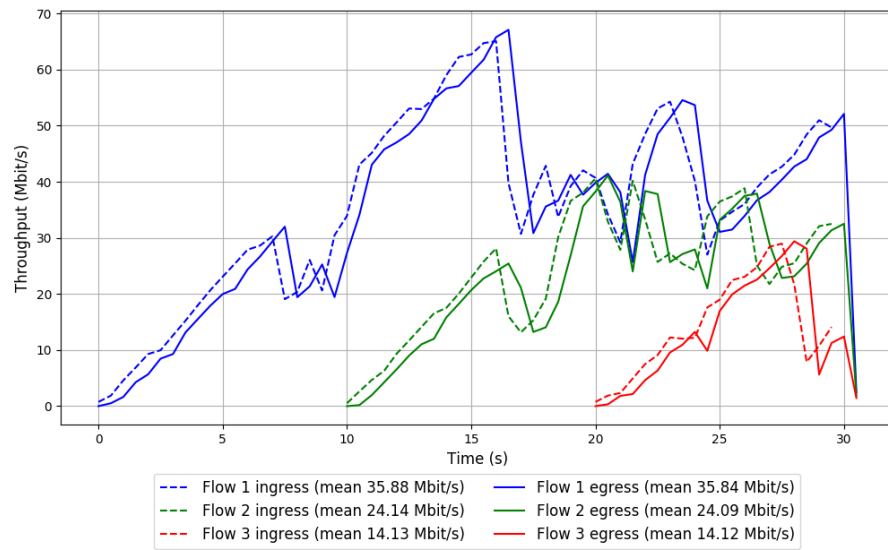


Run 2: Statistics of LEDBAT

Start at: 2019-01-03 10:15:23
End at: 2019-01-03 10:15:53
Local clock offset: 4.382 ms
Remote clock offset: -34.355 ms

Below is generated by plot.py at 2019-01-03 11:47:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 116.664 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 35.84 Mbit/s
95th percentile per-packet one-way delay: 113.832 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 119.011 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 14.12 Mbit/s
95th percentile per-packet one-way delay: 121.765 ms
Loss rate: 0.80%

Run 2: Report of LEDBAT — Data Link

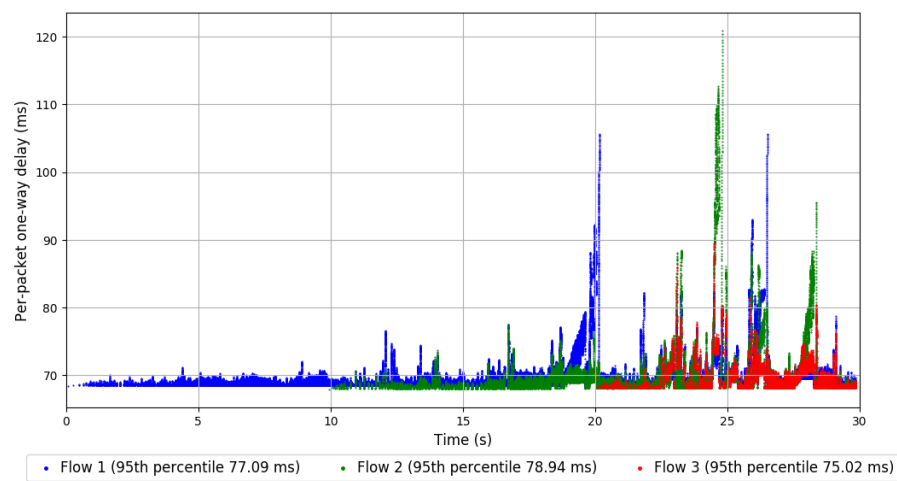
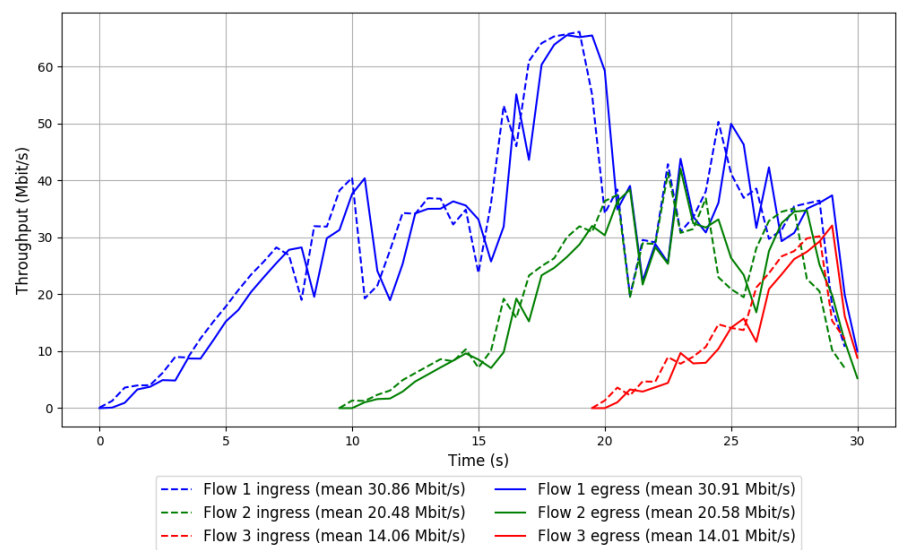


Run 3: Statistics of LEDBAT

Start at: 2019-01-03 10:39:50
End at: 2019-01-03 10:40:20
Local clock offset: 2.612 ms
Remote clock offset: 14.468 ms

Below is generated by plot.py at 2019-01-03 11:47:48
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.27 Mbit/s
95th percentile per-packet one-way delay: 77.280 ms
Loss rate: 0.40%
-- Flow 1:
Average throughput: 30.91 Mbit/s
95th percentile per-packet one-way delay: 77.089 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 20.58 Mbit/s
95th percentile per-packet one-way delay: 78.937 ms
Loss rate: 0.44%
-- Flow 3:
Average throughput: 14.01 Mbit/s
95th percentile per-packet one-way delay: 75.015 ms
Loss rate: 1.83%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2019-01-03 11:04:10

End at: 2019-01-03 11:04:40

Local clock offset: 2.282 ms

Remote clock offset: 3.635 ms

Below is generated by plot.py at 2019-01-03 11:48:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 59.27 Mbit/s

95th percentile per-packet one-way delay: 90.580 ms

Loss rate: 0.33%

-- Flow 1:

Average throughput: 38.48 Mbit/s

95th percentile per-packet one-way delay: 90.875 ms

Loss rate: 0.19%

-- Flow 2:

Average throughput: 21.67 Mbit/s

95th percentile per-packet one-way delay: 90.576 ms

Loss rate: 0.20%

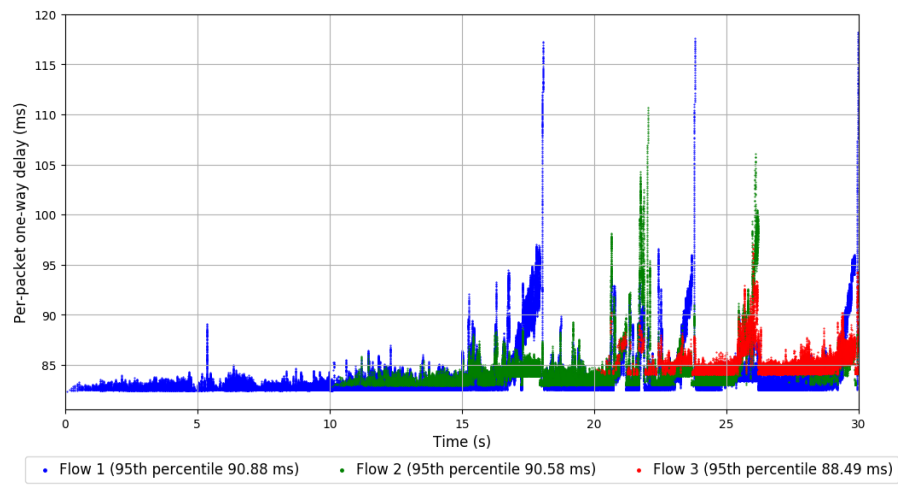
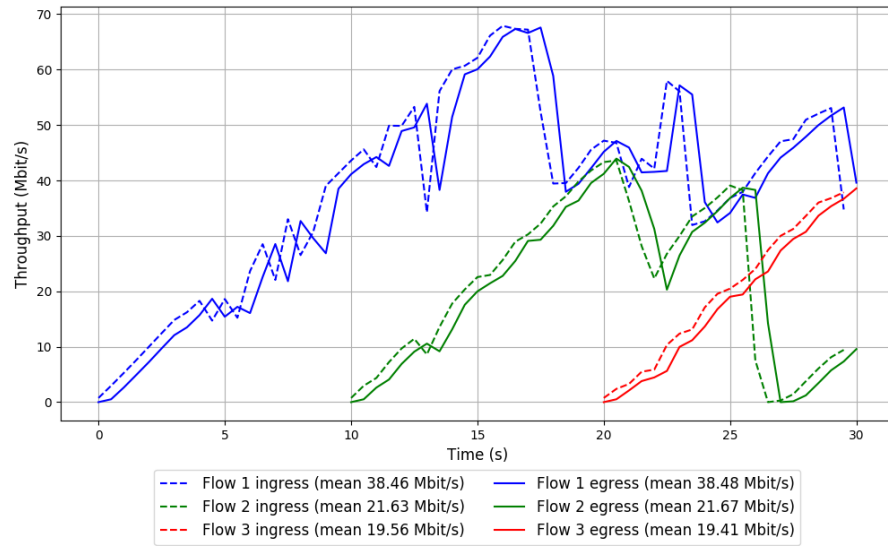
-- Flow 3:

Average throughput: 19.41 Mbit/s

95th percentile per-packet one-way delay: 88.486 ms

Loss rate: 1.46%

Run 4: Report of LEDBAT — Data Link

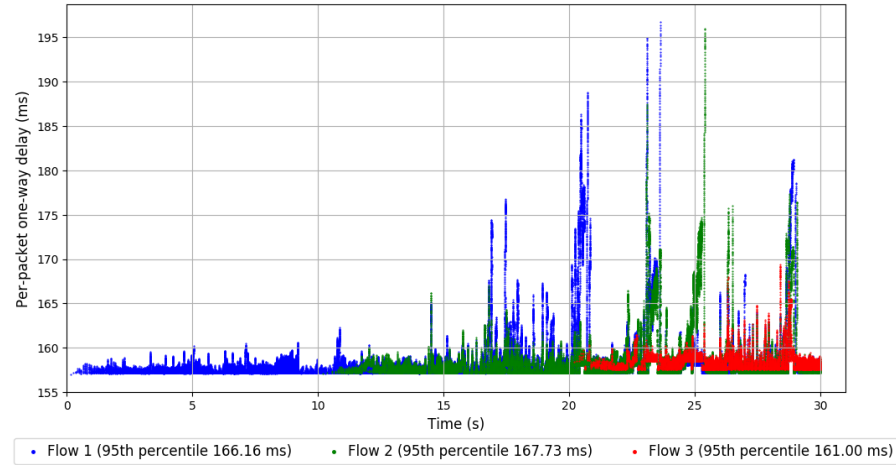
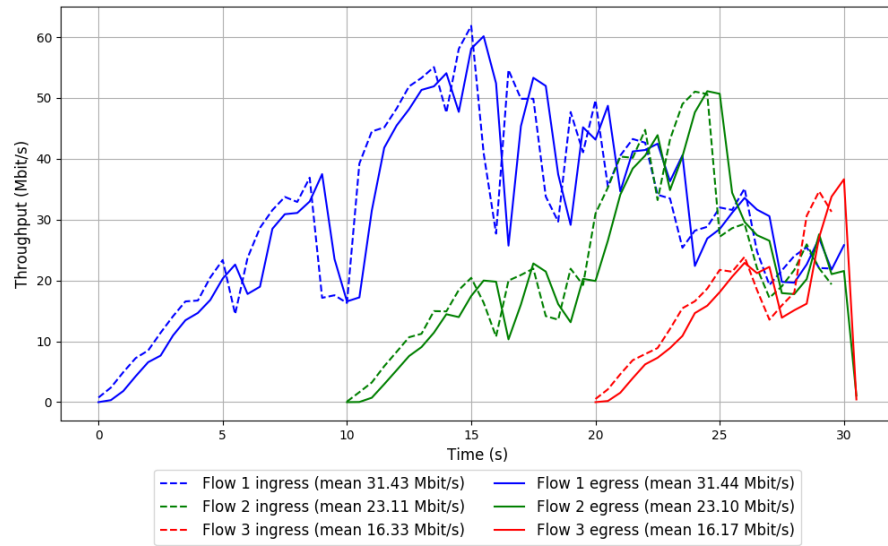


Run 5: Statistics of LEDBAT

Start at: 2019-01-03 11:29:41
End at: 2019-01-03 11:30:11
Local clock offset: -0.445 ms
Remote clock offset: -69.043 ms

Below is generated by plot.py at 2019-01-03 11:48:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.07 Mbit/s
95th percentile per-packet one-way delay: 166.322 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 166.160 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 23.10 Mbit/s
95th percentile per-packet one-way delay: 167.728 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 16.17 Mbit/s
95th percentile per-packet one-way delay: 160.995 ms
Loss rate: 1.73%

Run 5: Report of LEDBAT — Data Link

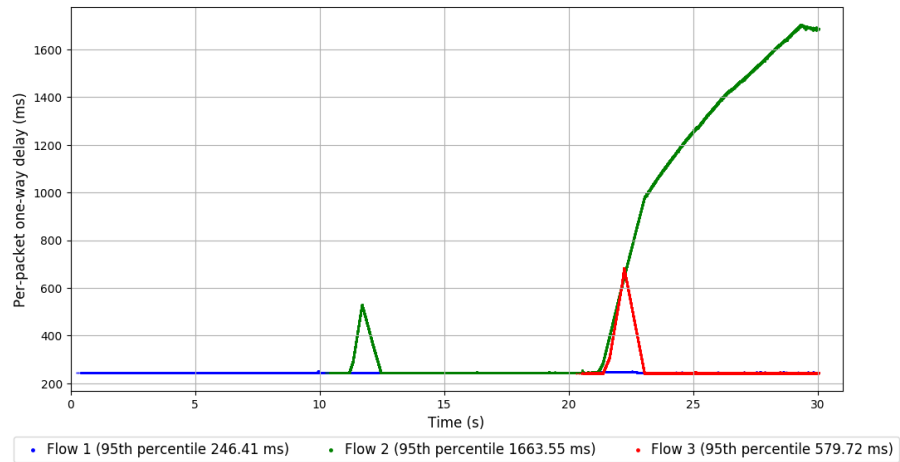
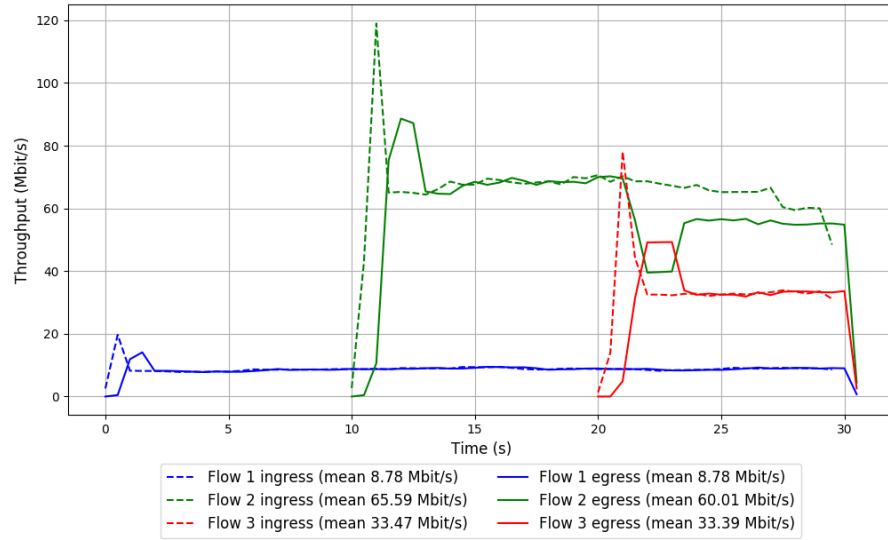


```
Run 1: Statistics of PCC-Allegro

Start at: 2019-01-03 09:44:46
End at: 2019-01-03 09:45:16
Local clock offset: -0.055 ms
Remote clock offset: -173.649 ms

# Below is generated by plot.py at 2019-01-03 11:48:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 59.53 Mbit/s
95th percentile per-packet one-way delay: 1611.584 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 246.414 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 60.01 Mbit/s
95th percentile per-packet one-way delay: 1663.549 ms
Loss rate: 8.99%
-- Flow 3:
Average throughput: 33.39 Mbit/s
95th percentile per-packet one-way delay: 579.721 ms
Loss rate: 1.97%
```

Run 1: Report of PCC-Allegro — Data Link

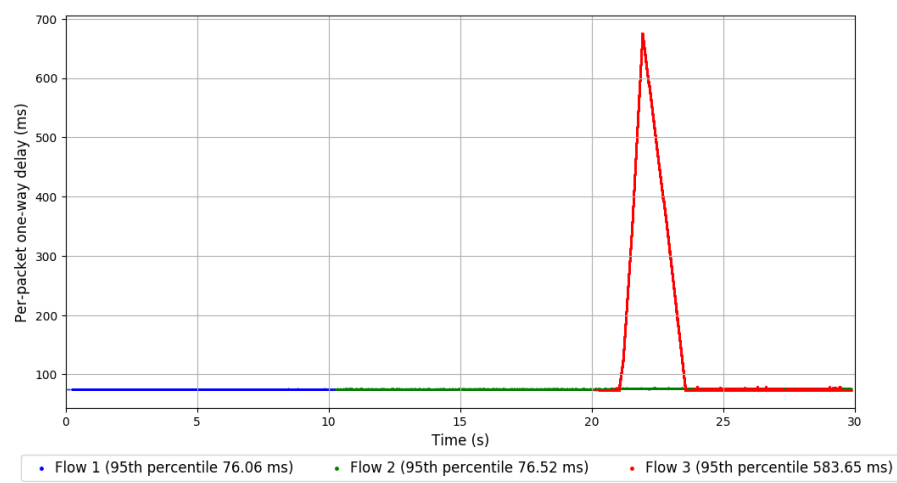
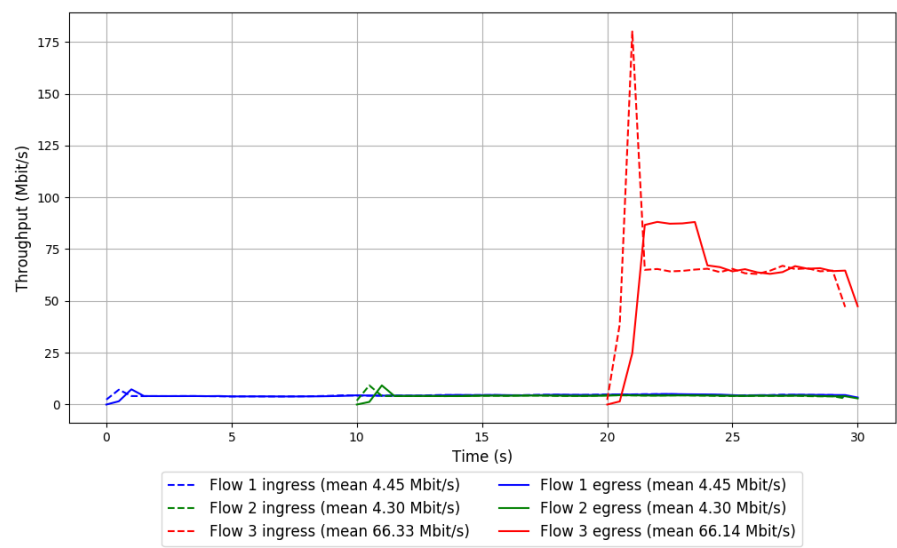


Run 2: Statistics of PCC-Allegro

Start at: 2019-01-03 10:09:02
End at: 2019-01-03 10:09:32
Local clock offset: 1.223 ms
Remote clock offset: -1.917 ms

Below is generated by plot.py at 2019-01-03 11:48:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 28.99 Mbit/s
95th percentile per-packet one-way delay: 545.869 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 4.45 Mbit/s
95th percentile per-packet one-way delay: 76.065 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 4.30 Mbit/s
95th percentile per-packet one-way delay: 76.520 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 66.14 Mbit/s
95th percentile per-packet one-way delay: 583.651 ms
Loss rate: 1.01%

Run 2: Report of PCC-Allegro — Data Link

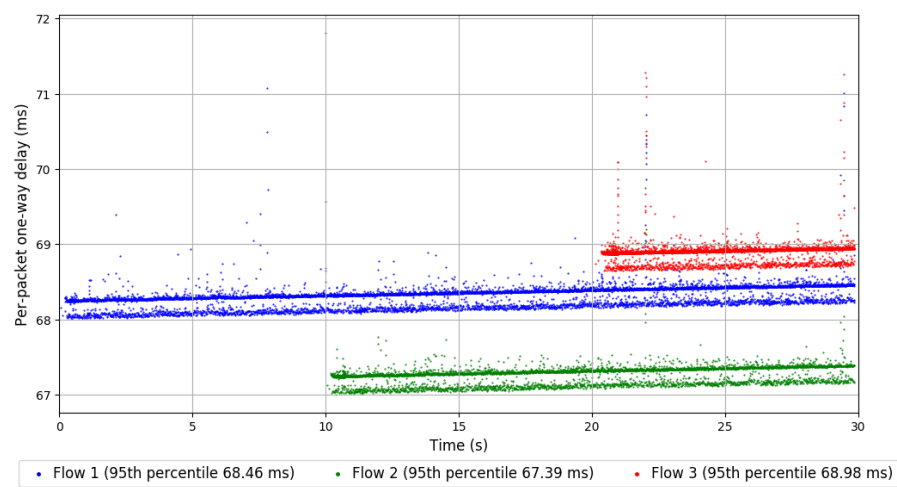
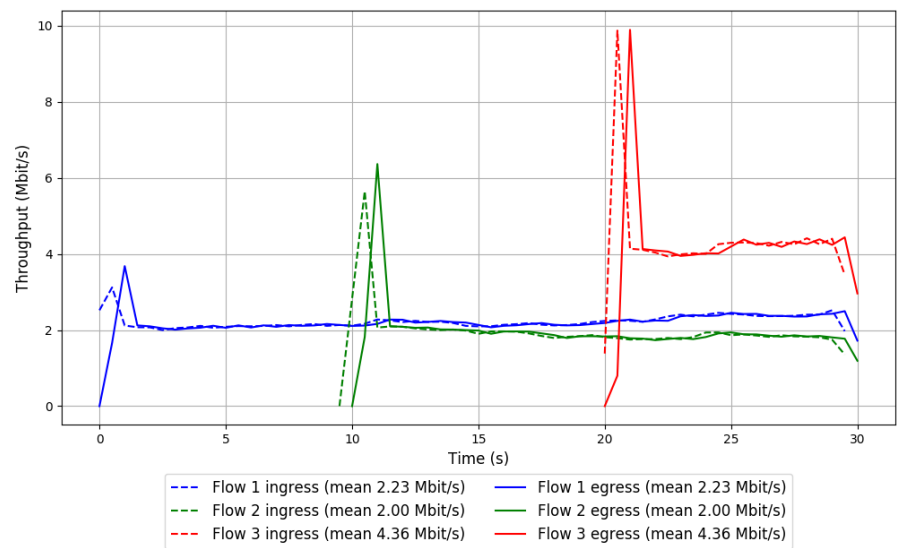


Run 3: Statistics of PCC-Allegro

Start at: 2019-01-03 10:33:19
End at: 2019-01-03 10:33:49
Local clock offset: 1.716 ms
Remote clock offset: 12.225 ms

Below is generated by plot.py at 2019-01-03 11:48:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 4.99 Mbit/s
95th percentile per-packet one-way delay: 68.937 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 68.460 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 2.00 Mbit/s
95th percentile per-packet one-way delay: 67.391 ms
Loss rate: 0.47%
-- Flow 3:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 68.978 ms
Loss rate: 1.26%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2019-01-03 10:57:26

End at: 2019-01-03 10:57:56

Local clock offset: 2.118 ms

Remote clock offset: 2.406 ms

Below is generated by plot.py at 2019-01-03 11:48:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 86.30 Mbit/s

95th percentile per-packet one-way delay: 2148.340 ms

Loss rate: 8.50%

-- Flow 1:

Average throughput: 54.65 Mbit/s

95th percentile per-packet one-way delay: 2196.843 ms

Loss rate: 10.87%

-- Flow 2:

Average throughput: 32.17 Mbit/s

95th percentile per-packet one-way delay: 534.291 ms

Loss rate: 5.59%

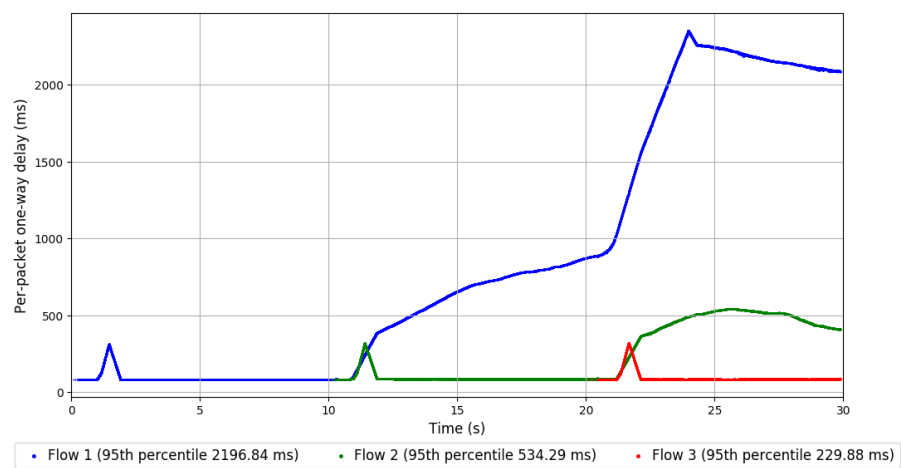
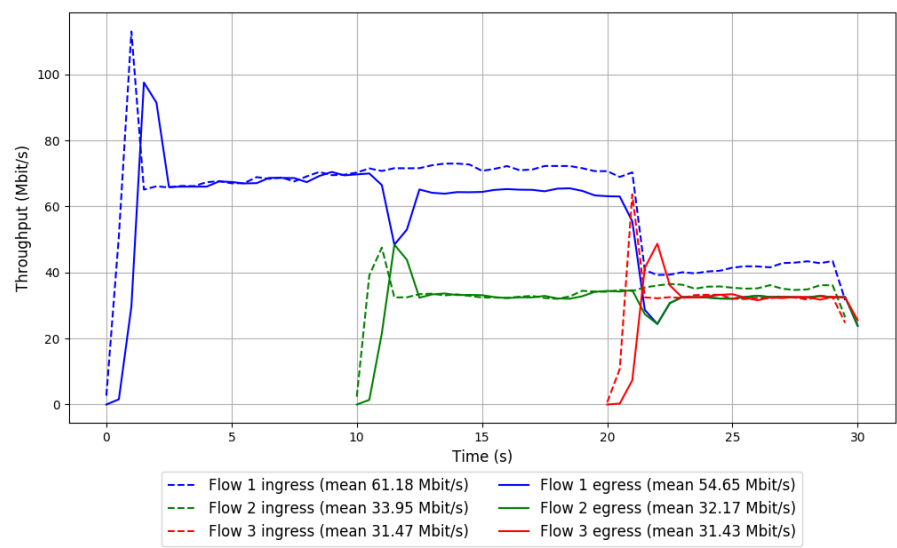
-- Flow 3:

Average throughput: 31.43 Mbit/s

95th percentile per-packet one-way delay: 229.883 ms

Loss rate: 0.91%

Run 4: Report of PCC-Allegro — Data Link



Run 5: Statistics of PCC-Allegro

Start at: 2019-01-03 11:23:35

End at: 2019-01-03 11:24:05

Local clock offset: -0.431 ms

Remote clock offset: 15.58 ms

Below is generated by plot.py at 2019-01-03 11:48:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 66.54 Mbit/s

95th percentile per-packet one-way delay: 1987.775 ms

Loss rate: 6.04%

-- Flow 1:

Average throughput: 20.40 Mbit/s

95th percentile per-packet one-way delay: 72.530 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 53.29 Mbit/s

95th percentile per-packet one-way delay: 2228.606 ms

Loss rate: 10.12%

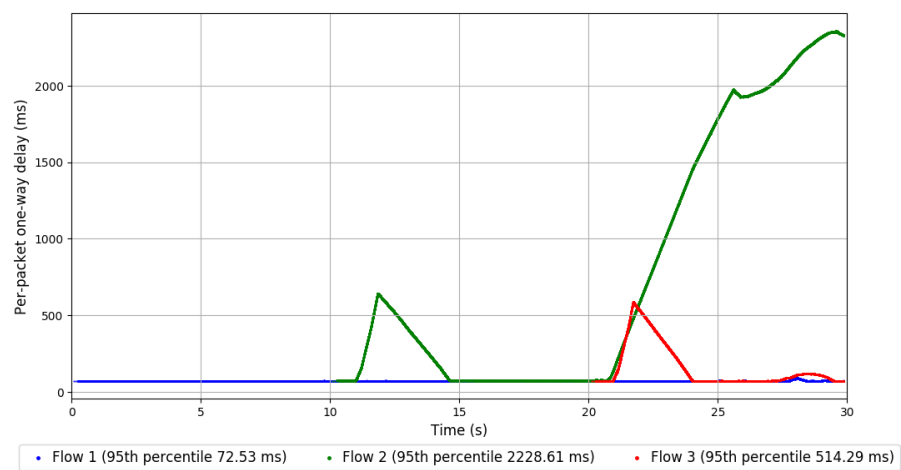
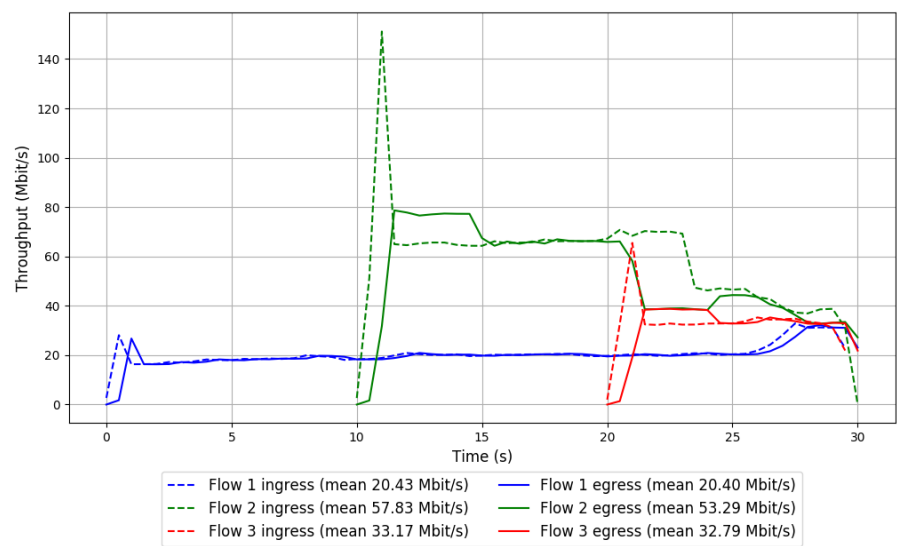
-- Flow 3:

Average throughput: 32.79 Mbit/s

95th percentile per-packet one-way delay: 514.294 ms

Loss rate: 1.94%

Run 5: Report of PCC-Allegro — Data Link

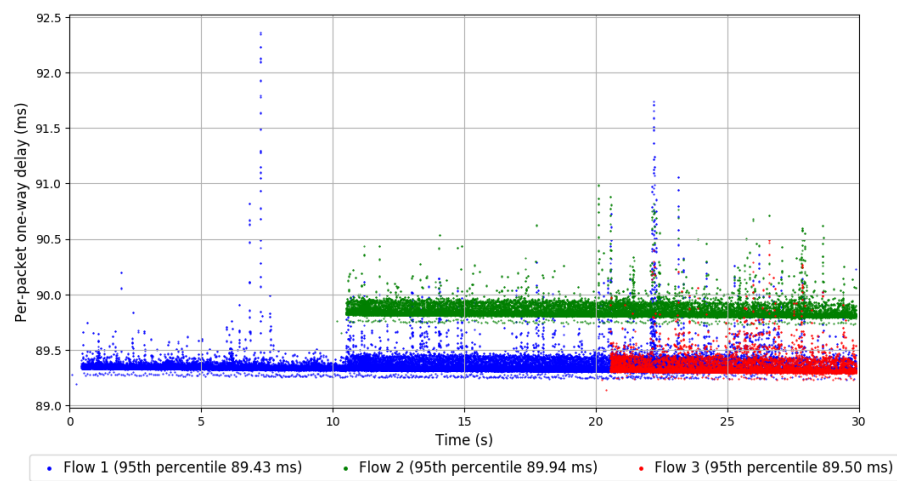
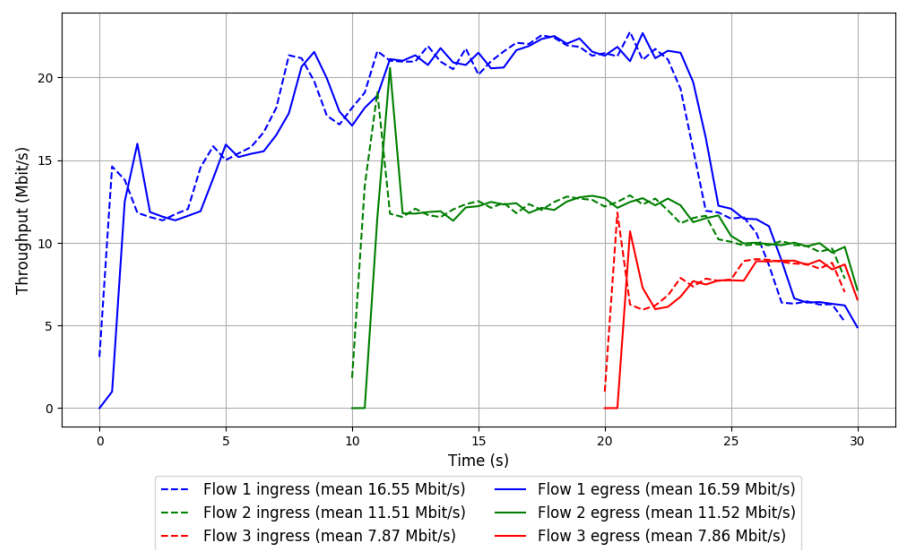


```
Run 1: Statistics of PCC-Expr

Start at: 2019-01-03 09:57:39
End at: 2019-01-03 09:58:09
Local clock offset: 0.28 ms
Remote clock offset: -18.089 ms

# Below is generated by plot.py at 2019-01-03 11:48:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.77 Mbit/s
95th percentile per-packet one-way delay: 89.878 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 16.59 Mbit/s
95th percentile per-packet one-way delay: 89.431 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 11.52 Mbit/s
95th percentile per-packet one-way delay: 89.936 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 7.86 Mbit/s
95th percentile per-packet one-way delay: 89.501 ms
Loss rate: 1.33%
```

Run 1: Report of PCC-Expr — Data Link



Run 2: Statistics of PCC-Expr

Start at: 2019-01-03 10:21:48

End at: 2019-01-03 10:22:18

Local clock offset: 0.197 ms

Remote clock offset: 5.361 ms

Below is generated by plot.py at 2019-01-03 11:49:03

Datalink statistics

-- Total of 3 flows:

Average throughput: 57.53 Mbit/s

95th percentile per-packet one-way delay: 1050.362 ms

Loss rate: 9.52%

-- Flow 1:

Average throughput: 13.94 Mbit/s

95th percentile per-packet one-way delay: 71.239 ms

Loss rate: 0.77%

-- Flow 2:

Average throughput: 53.45 Mbit/s

95th percentile per-packet one-way delay: 1071.066 ms

Loss rate: 14.10%

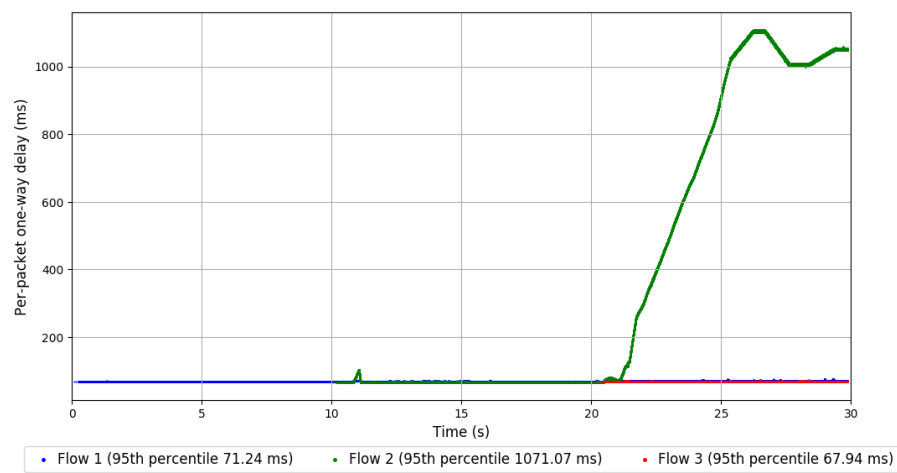
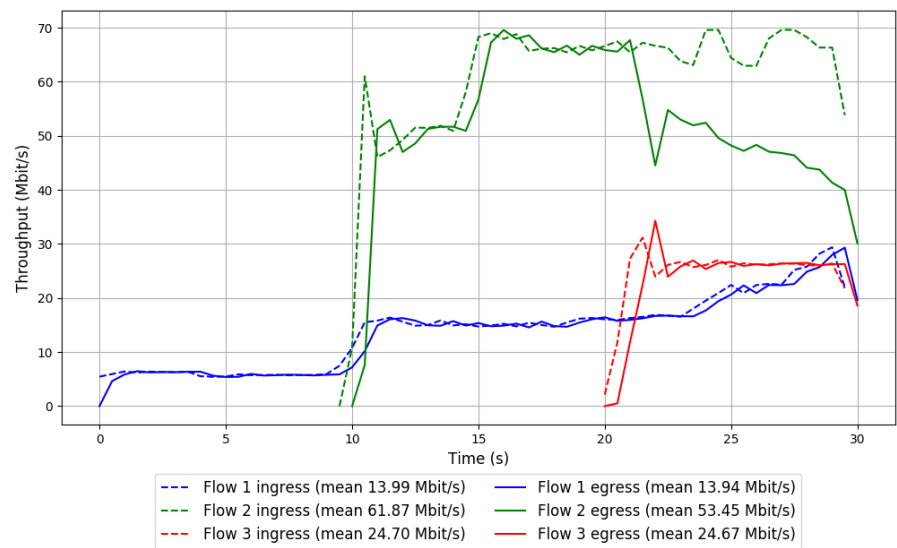
-- Flow 3:

Average throughput: 24.67 Mbit/s

95th percentile per-packet one-way delay: 67.941 ms

Loss rate: 1.36%

Run 2: Report of PCC-Expr — Data Link

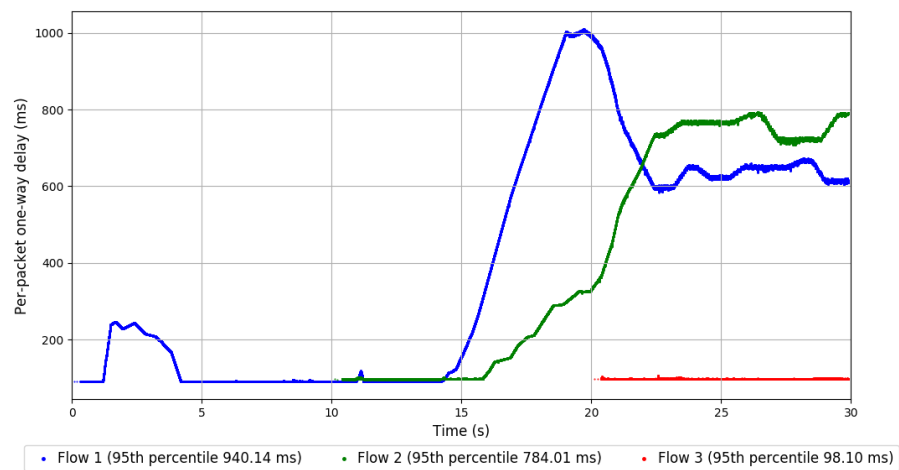
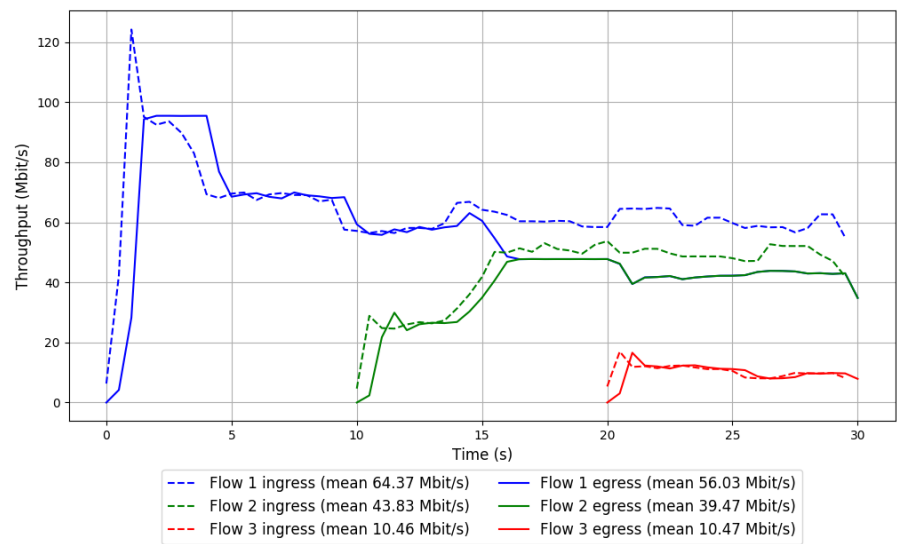


Run 3: Statistics of PCC-Expr

Start at: 2019-01-03 10:46:06
End at: 2019-01-03 10:46:36
Local clock offset: -0.459 ms
Remote clock offset: -8.824 ms

Below is generated by plot.py at 2019-01-03 11:49:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.67 Mbit/s
95th percentile per-packet one-way delay: 832.434 ms
Loss rate: 12.05%
-- Flow 1:
Average throughput: 56.03 Mbit/s
95th percentile per-packet one-way delay: 940.138 ms
Loss rate: 13.32%
-- Flow 2:
Average throughput: 39.47 Mbit/s
95th percentile per-packet one-way delay: 784.011 ms
Loss rate: 10.53%
-- Flow 3:
Average throughput: 10.47 Mbit/s
95th percentile per-packet one-way delay: 98.102 ms
Loss rate: 1.11%

Run 3: Report of PCC-Expr — Data Link

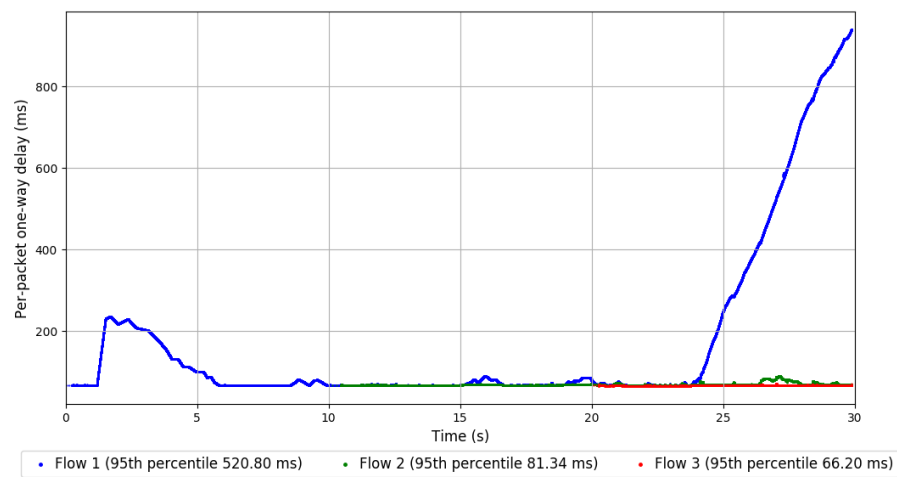
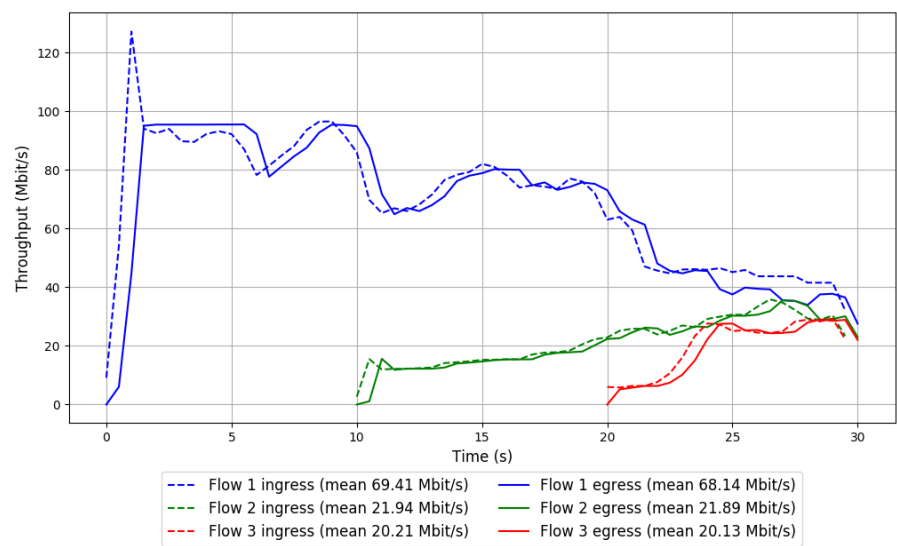


Run 4: Statistics of PCC-Expr

Start at: 2019-01-03 11:11:22
End at: 2019-01-03 11:11:52
Local clock offset: -2.37 ms
Remote clock offset: 17.606 ms

Below is generated by plot.py at 2019-01-03 11:50:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 89.23 Mbit/s
95th percentile per-packet one-way delay: 383.996 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 68.14 Mbit/s
95th percentile per-packet one-way delay: 520.805 ms
Loss rate: 2.08%
-- Flow 2:
Average throughput: 21.89 Mbit/s
95th percentile per-packet one-way delay: 81.338 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 20.13 Mbit/s
95th percentile per-packet one-way delay: 66.204 ms
Loss rate: 1.07%

Run 4: Report of PCC-Expr — Data Link

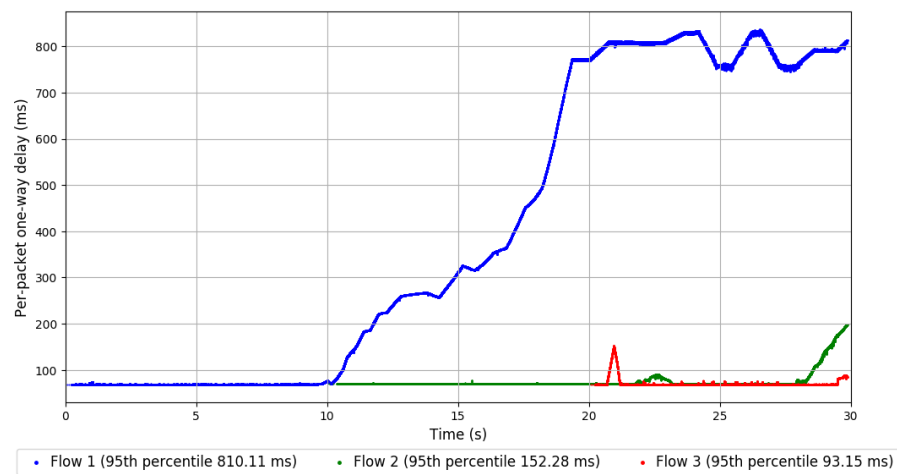
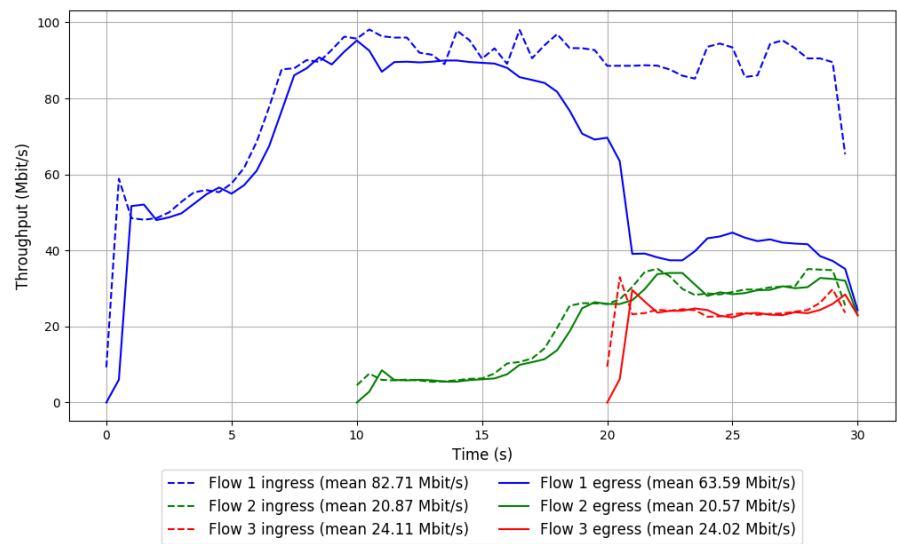


Run 5: Statistics of PCC-Expr

Start at: 2019-01-03 11:36:04
End at: 2019-01-03 11:36:34
Local clock offset: -0.451 ms
Remote clock offset: 19.306 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.14 Mbit/s
95th percentile per-packet one-way delay: 808.164 ms
Loss rate: 18.81%
-- Flow 1:
Average throughput: 63.59 Mbit/s
95th percentile per-packet one-way delay: 810.108 ms
Loss rate: 23.35%
-- Flow 2:
Average throughput: 20.57 Mbit/s
95th percentile per-packet one-way delay: 152.283 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 93.147 ms
Loss rate: 1.22%

Run 5: Report of PCC-Expr — Data Link

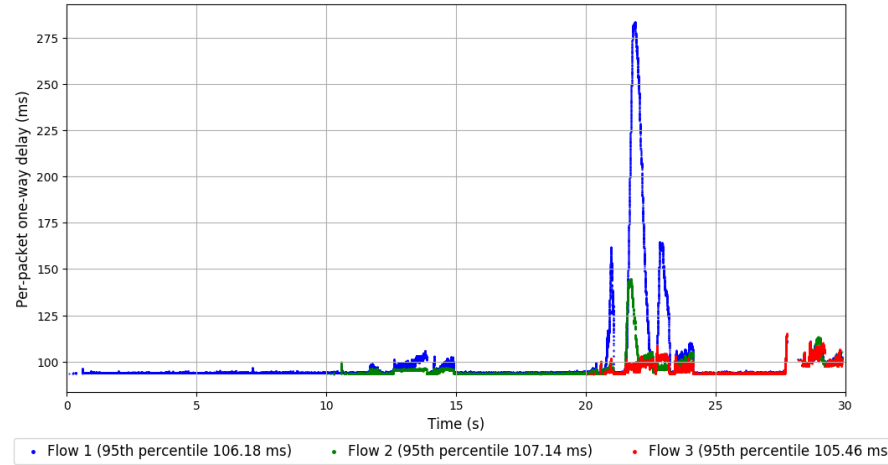
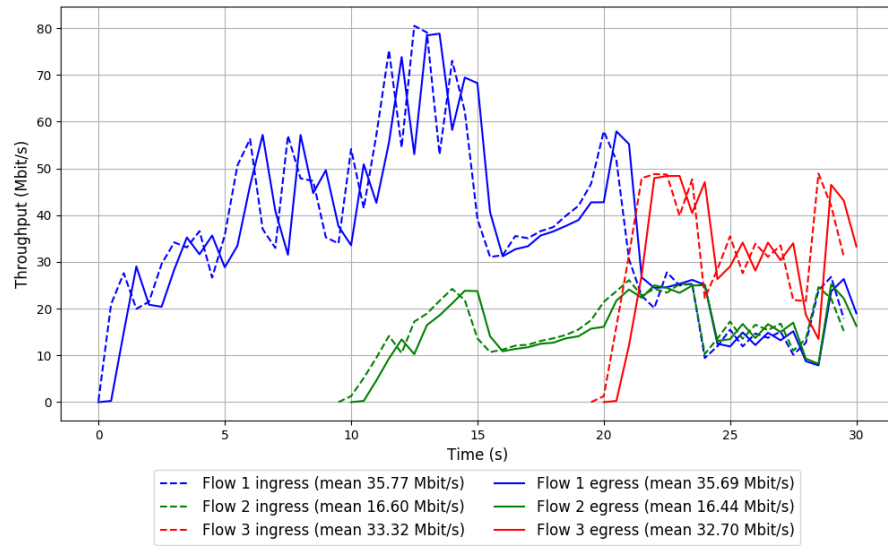


Run 1: Statistics of QUIC Cubic

Start at: 2019-01-03 09:55:05
End at: 2019-01-03 09:55:35
Local clock offset: 0.05 ms
Remote clock offset: -24.68 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 57.44 Mbit/s
95th percentile per-packet one-way delay: 105.995 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 35.69 Mbit/s
95th percentile per-packet one-way delay: 106.182 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 16.44 Mbit/s
95th percentile per-packet one-way delay: 107.137 ms
Loss rate: 1.30%
-- Flow 3:
Average throughput: 32.70 Mbit/s
95th percentile per-packet one-way delay: 105.462 ms
Loss rate: 2.53%

Run 1: Report of QUIC Cubic — Data Link

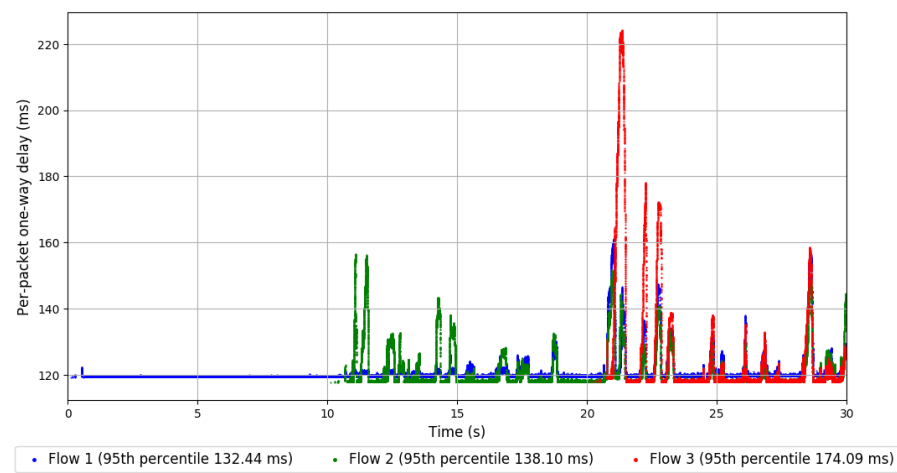
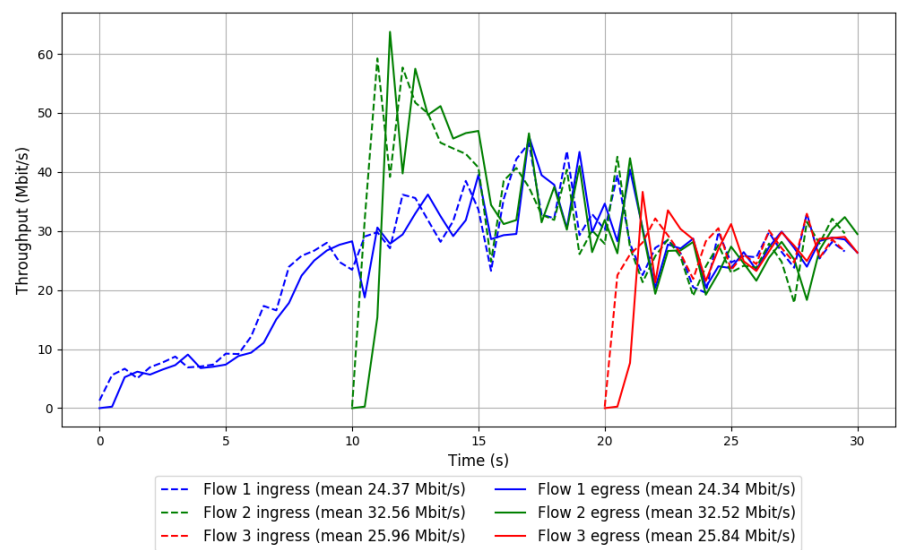


Run 2: Statistics of QUIC Cubic

Start at: 2019-01-03 10:19:18
End at: 2019-01-03 10:19:48
Local clock offset: 4.015 ms
Remote clock offset: -42.913 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 54.45 Mbit/s
95th percentile per-packet one-way delay: 139.325 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 24.34 Mbit/s
95th percentile per-packet one-way delay: 132.439 ms
Loss rate: 0.42%
-- Flow 2:
Average throughput: 32.52 Mbit/s
95th percentile per-packet one-way delay: 138.104 ms
Loss rate: 0.55%
-- Flow 3:
Average throughput: 25.84 Mbit/s
95th percentile per-packet one-way delay: 174.089 ms
Loss rate: 1.26%

Run 2: Report of QUIC Cubic — Data Link

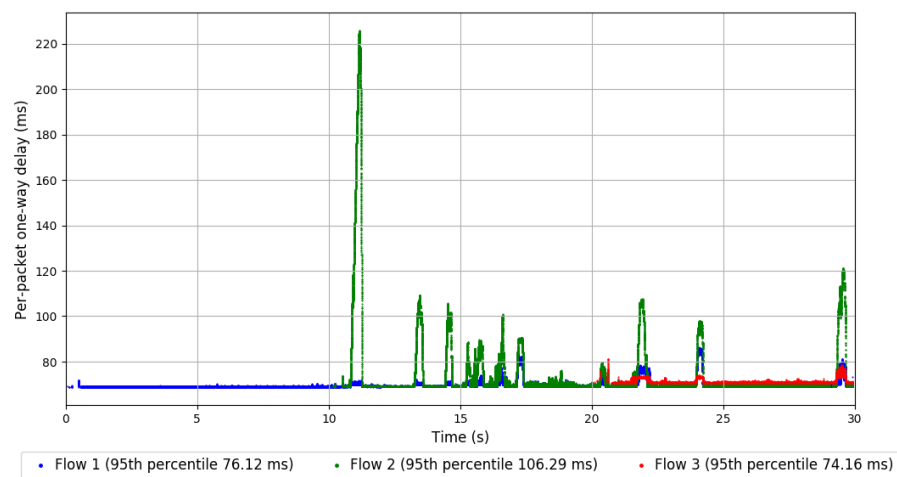
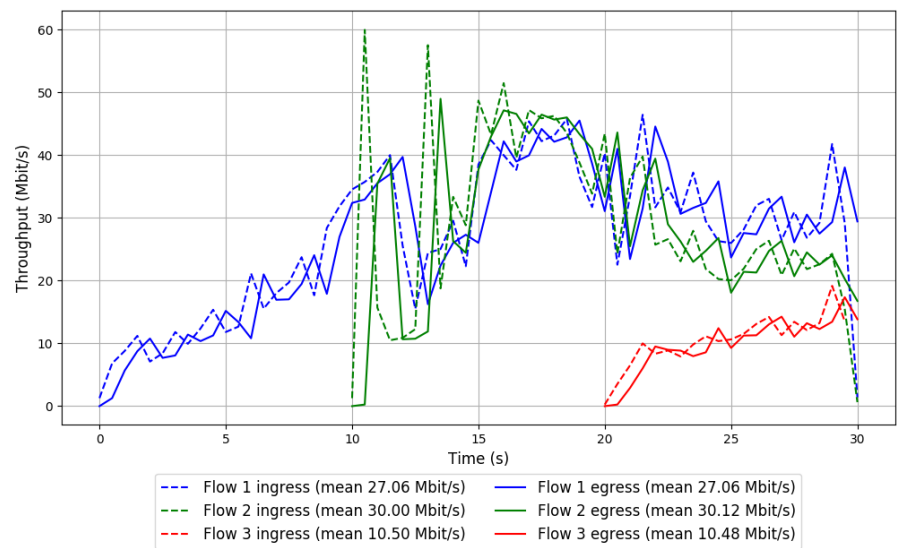


Run 3: Statistics of QUIC Cubic

Start at: 2019-01-03 10:43:36
End at: 2019-01-03 10:44:06
Local clock offset: 3.101 ms
Remote clock offset: 15.234 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 50.52 Mbit/s
95th percentile per-packet one-way delay: 91.798 ms
Loss rate: 0.59%
-- Flow 1:
Average throughput: 27.06 Mbit/s
95th percentile per-packet one-way delay: 76.122 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 30.12 Mbit/s
95th percentile per-packet one-way delay: 106.291 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 10.48 Mbit/s
95th percentile per-packet one-way delay: 74.163 ms
Loss rate: 1.54%

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2019-01-03 11:08:33

End at: 2019-01-03 11:09:03

Local clock offset: -0.053 ms

Remote clock offset: 17.45 ms

Below is generated by plot.py at 2019-01-03 11:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 70.43 Mbit/s

95th percentile per-packet one-way delay: 134.568 ms

Loss rate: 0.34%

-- Flow 1:

Average throughput: 38.73 Mbit/s

95th percentile per-packet one-way delay: 128.422 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 31.26 Mbit/s

95th percentile per-packet one-way delay: 126.614 ms

Loss rate: 0.41%

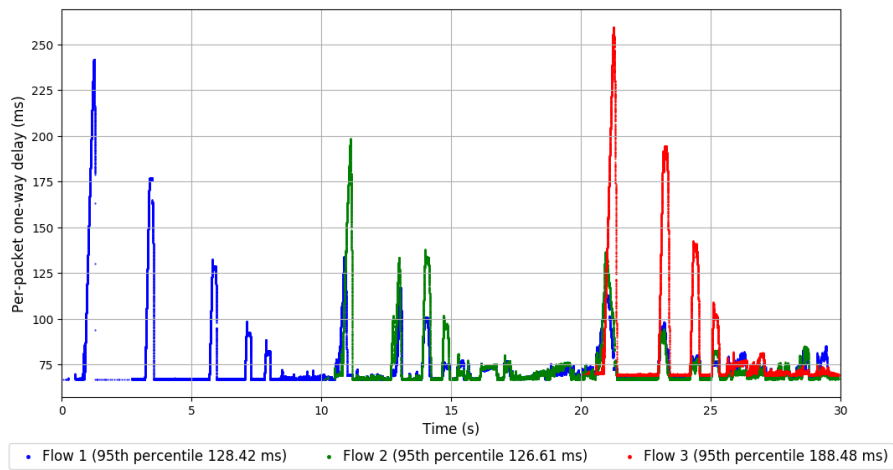
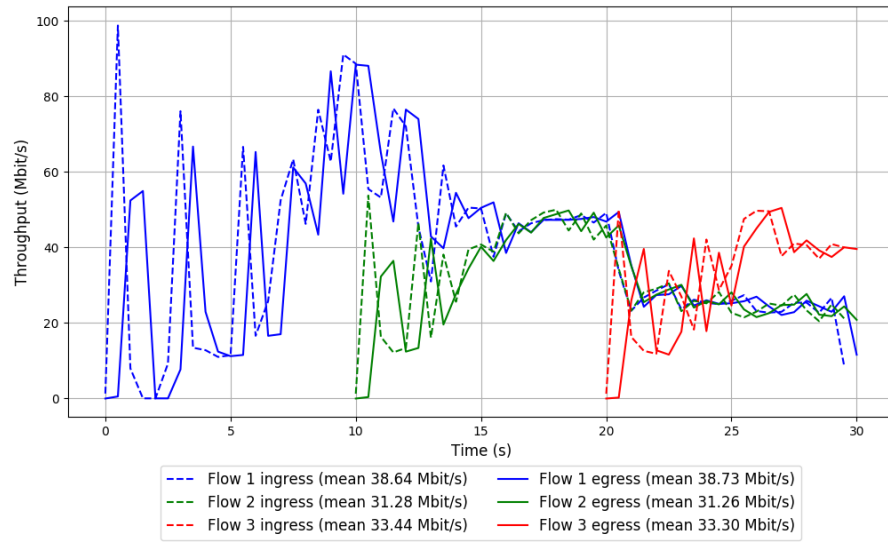
-- Flow 3:

Average throughput: 33.30 Mbit/s

95th percentile per-packet one-way delay: 188.483 ms

Loss rate: 1.17%

Run 4: Report of QUIC Cubic — Data Link

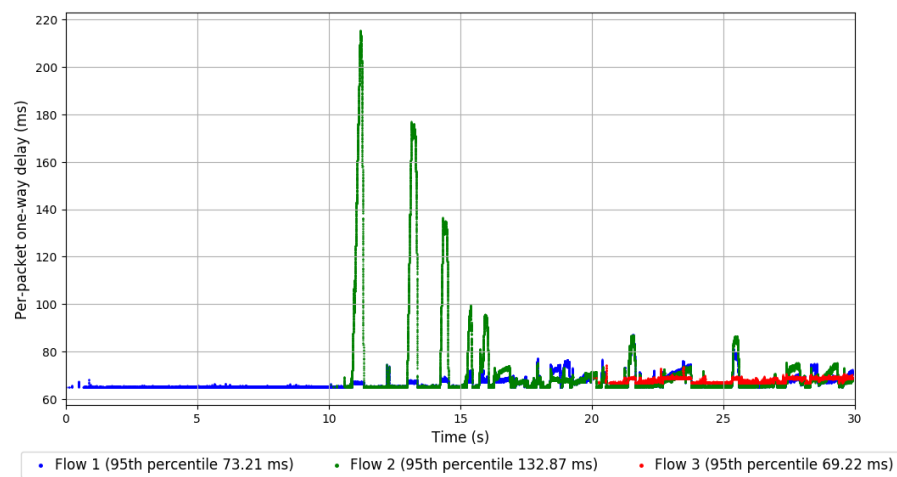
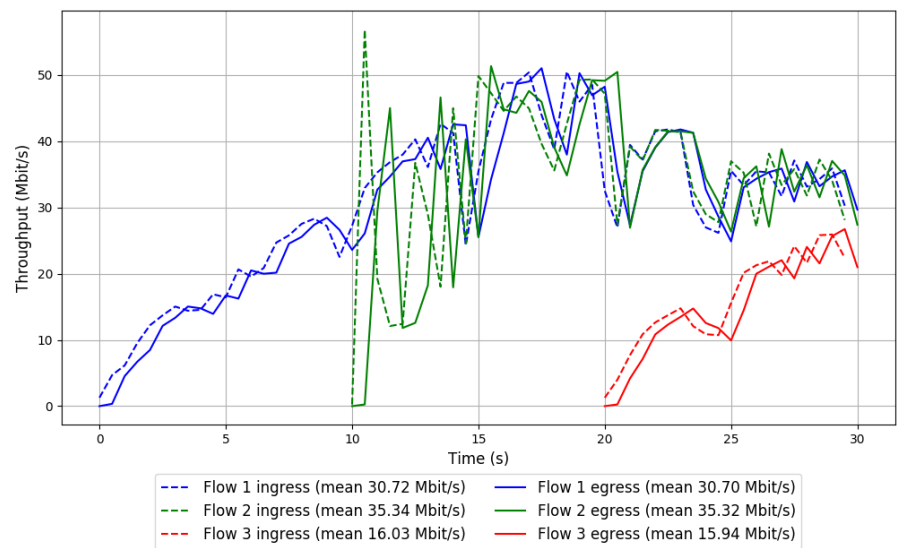


Run 5: Statistics of QUIC Cubic

Start at: 2019-01-03 11:33:26
End at: 2019-01-03 11:33:56
Local clock offset: -0.696 ms
Remote clock offset: 21.454 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 59.42 Mbit/s
95th percentile per-packet one-way delay: 84.621 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 30.70 Mbit/s
95th percentile per-packet one-way delay: 73.214 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 35.32 Mbit/s
95th percentile per-packet one-way delay: 132.874 ms
Loss rate: 0.41%
-- Flow 3:
Average throughput: 15.94 Mbit/s
95th percentile per-packet one-way delay: 69.222 ms
Loss rate: 1.32%

Run 5: Report of QUIC Cubic — Data Link

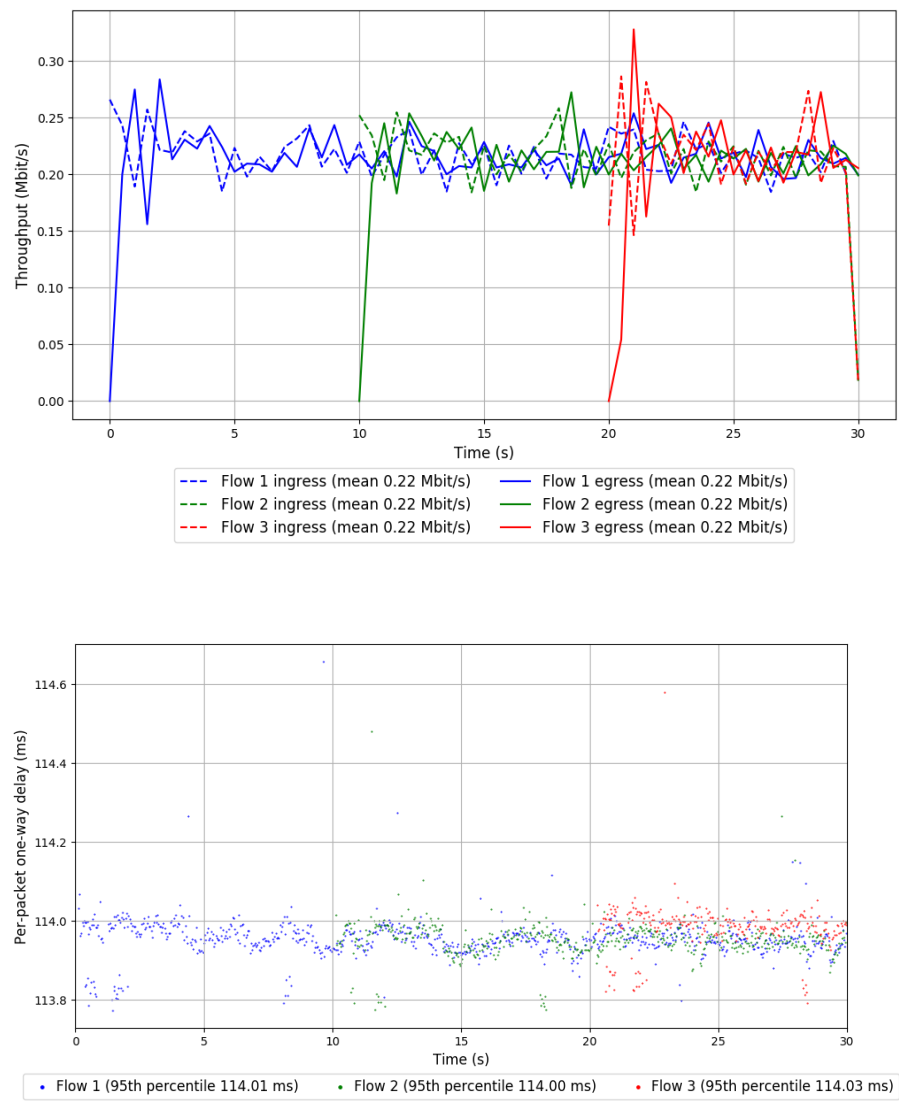



```
Run 1: Statistics of SCReAM

Start at: 2019-01-03 10:00:10
End at: 2019-01-03 10:00:40
Local clock offset: 3.406 ms
Remote clock offset: -38.2 ms

# Below is generated by plot.py at 2019-01-03 11:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 114.016 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.007 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.001 ms
Loss rate: 0.79%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 114.035 ms
Loss rate: 1.52%
```

Run 1: Report of SReAM — Data Link

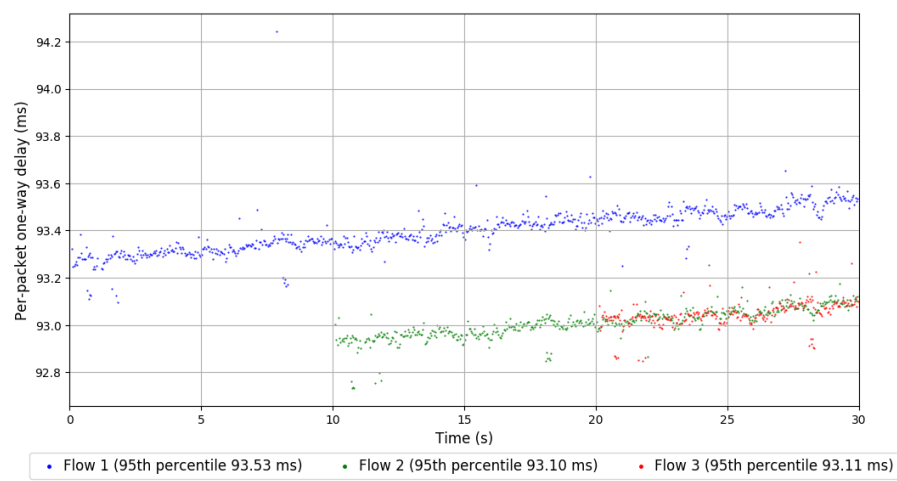
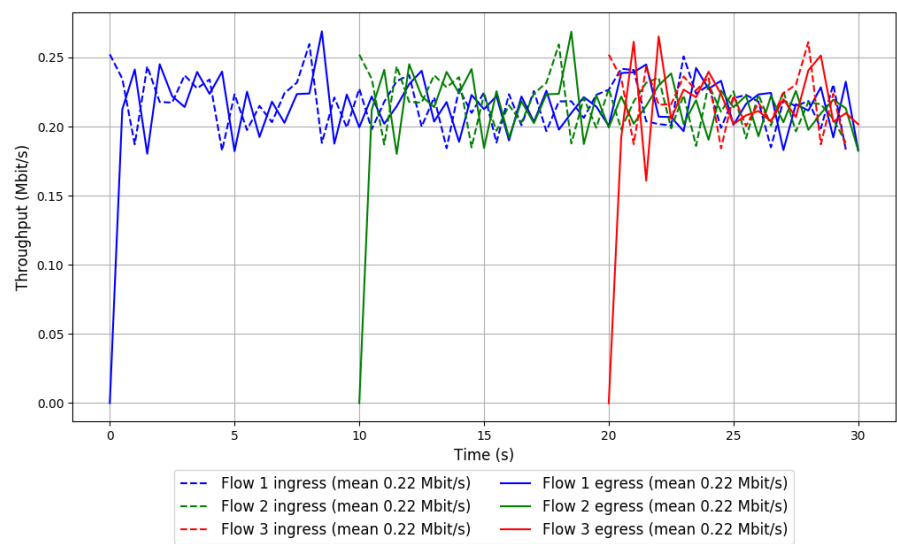


Run 2: Statistics of SReAM

Start at: 2019-01-03 10:24:13
End at: 2019-01-03 10:24:43
Local clock offset: 0.48 ms
Remote clock offset: -17.898 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 93.504 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.531 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.102 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 93.109 ms
Loss rate: 0.71%

Run 2: Report of SReAM — Data Link



Run 3: Statistics of SReAM

Start at: 2019-01-03 10:48:47

End at: 2019-01-03 10:49:17

Local clock offset: -0.127 ms

Remote clock offset: 3.615 ms

Below is generated by plot.py at 2019-01-03 11:50:06

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 83.847 ms

Loss rate: 0.50%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.194 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 83.865 ms

Loss rate: 0.59%

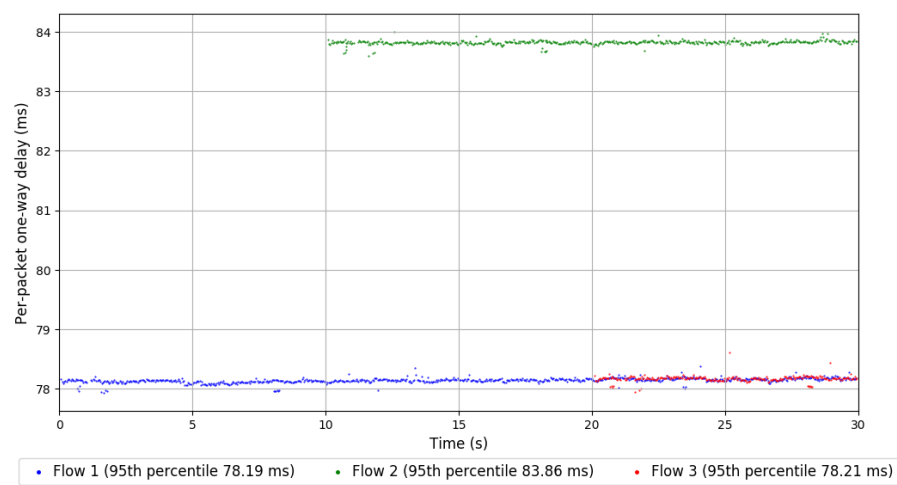
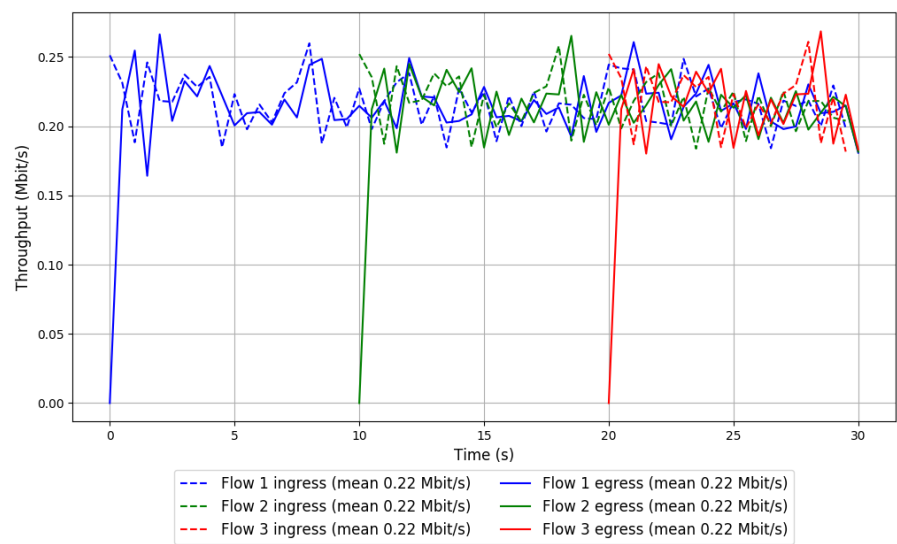
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 78.213 ms

Loss rate: 0.69%

Run 3: Report of SReAM — Data Link

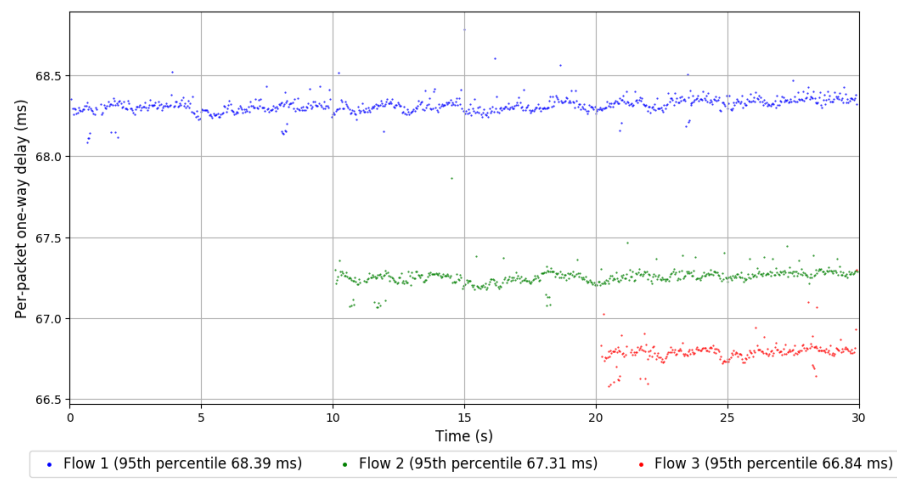
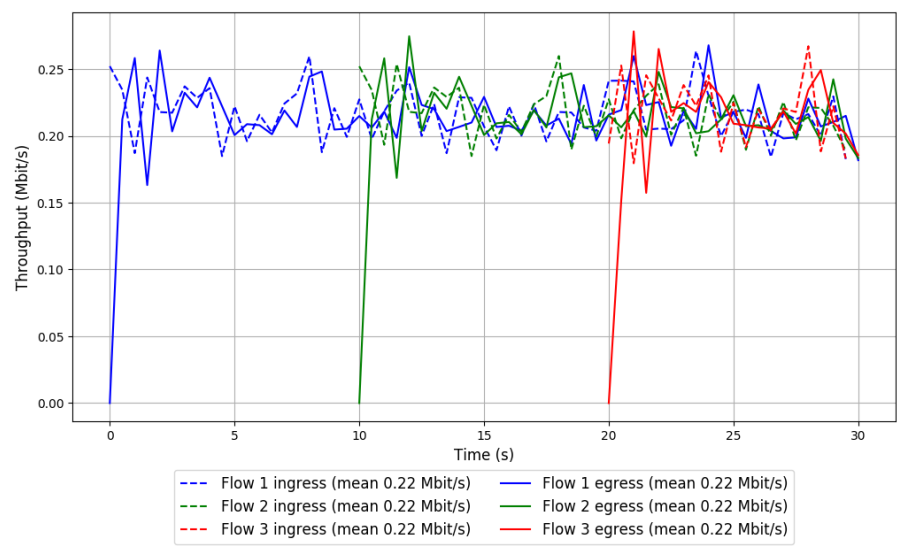


Run 4: Statistics of SReAM

Start at: 2019-01-03 11:14:19
End at: 2019-01-03 11:14:49
Local clock offset: -0.625 ms
Remote clock offset: 18.043 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 68.362 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 68.385 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.305 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.845 ms
Loss rate: 0.77%

Run 4: Report of SCReAM — Data Link

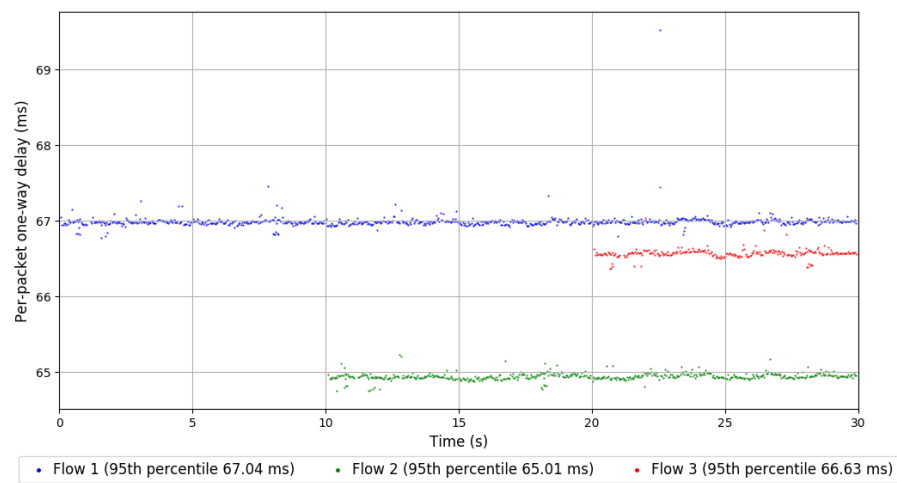
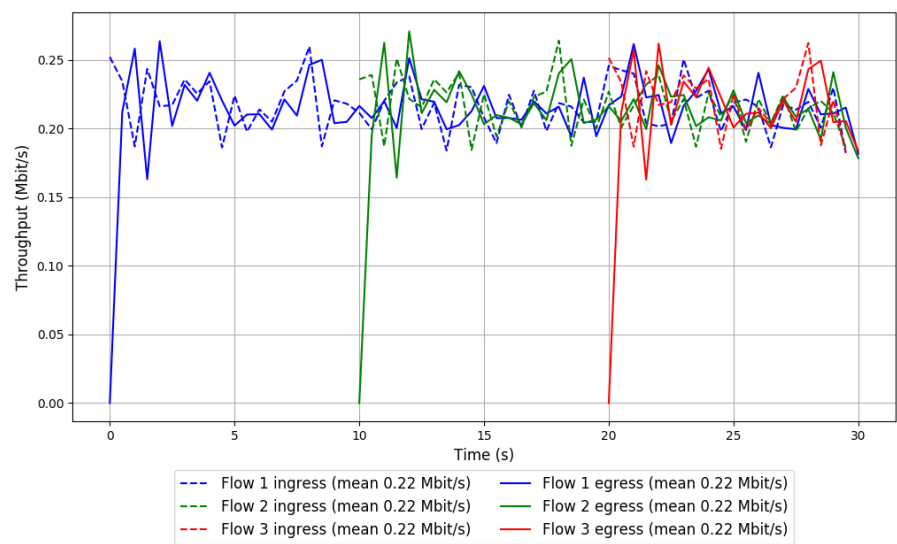


Run 5: Statistics of SReAM

Start at: 2019-01-03 11:39:06
End at: 2019-01-03 11:39:36
Local clock offset: -0.299 ms
Remote clock offset: 22.296 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 67.021 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 67.039 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 65.006 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 66.634 ms
Loss rate: 0.70%

Run 5: Report of SReAM — Data Link

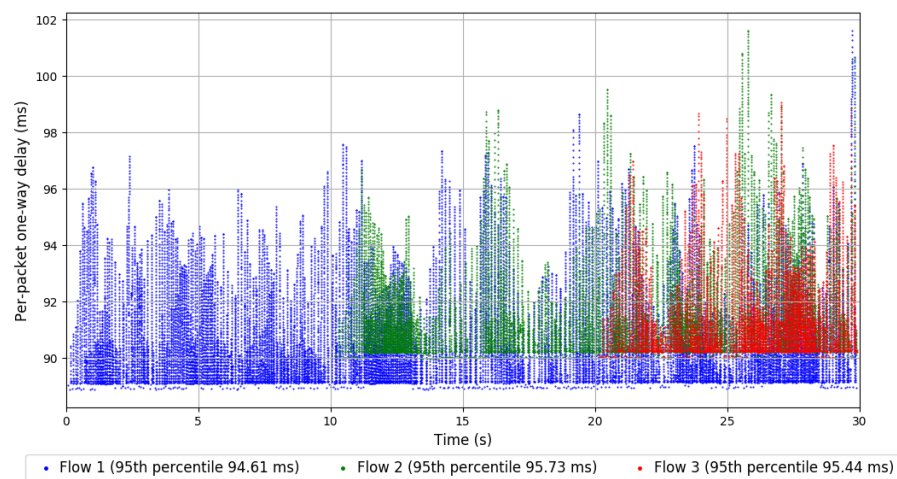
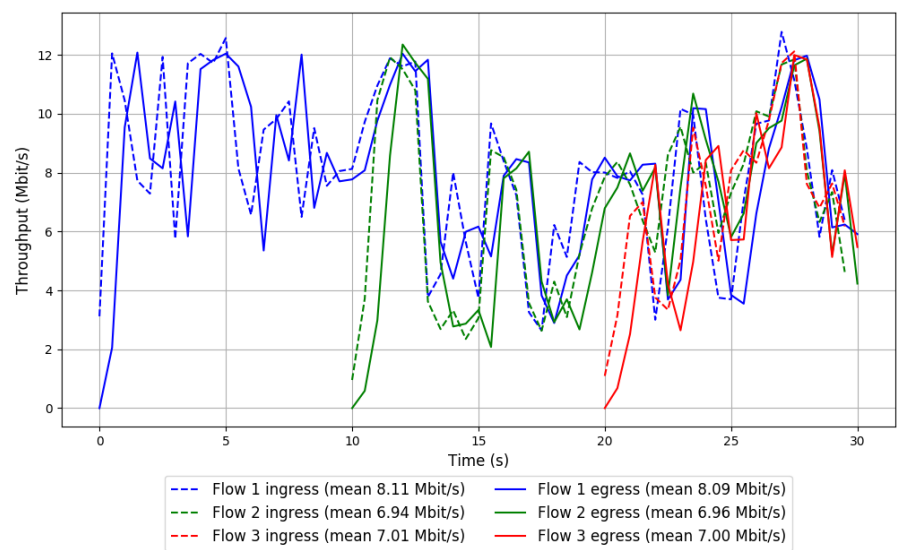


Run 1: Statistics of Sprout

Start at: 2019-01-03 09:52:39
End at: 2019-01-03 09:53:09
Local clock offset: 0.373 ms
Remote clock offset: -19.464 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.98 Mbit/s
95th percentile per-packet one-way delay: 95.126 ms
Loss rate: 0.66%
-- Flow 1:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 94.605 ms
Loss rate: 0.48%
-- Flow 2:
Average throughput: 6.96 Mbit/s
95th percentile per-packet one-way delay: 95.730 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 95.441 ms
Loss rate: 1.59%

Run 1: Report of Sprout — Data Link

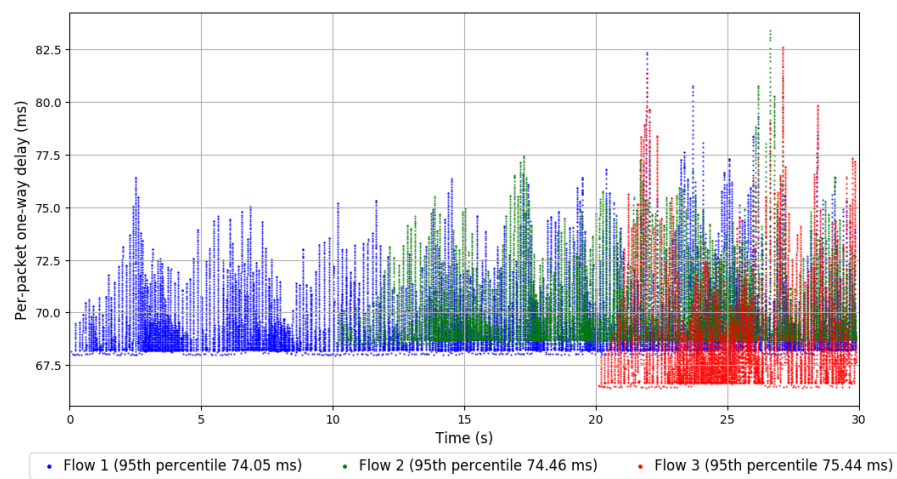
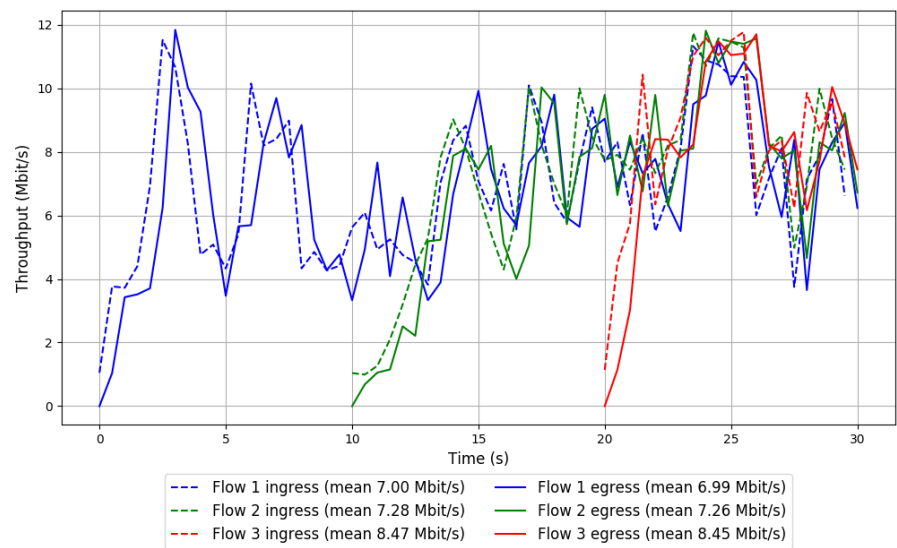


Run 2: Statistics of Sprout

Start at: 2019-01-03 10:16:41
End at: 2019-01-03 10:17:11
Local clock offset: 1.724 ms
Remote clock offset: 5.666 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 14.58 Mbit/s
95th percentile per-packet one-way delay: 74.422 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 6.99 Mbit/s
95th percentile per-packet one-way delay: 74.048 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 7.26 Mbit/s
95th percentile per-packet one-way delay: 74.462 ms
Loss rate: 0.64%
-- Flow 3:
Average throughput: 8.45 Mbit/s
95th percentile per-packet one-way delay: 75.444 ms
Loss rate: 1.13%

Run 2: Report of Sprout — Data Link

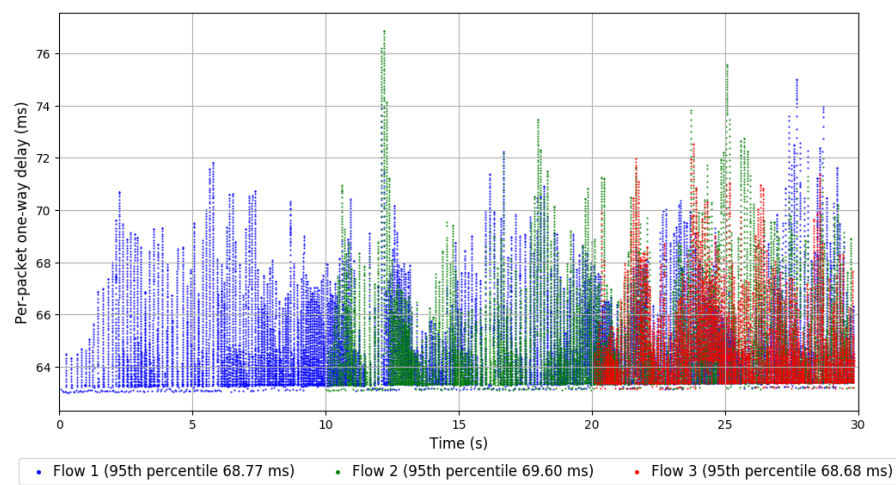
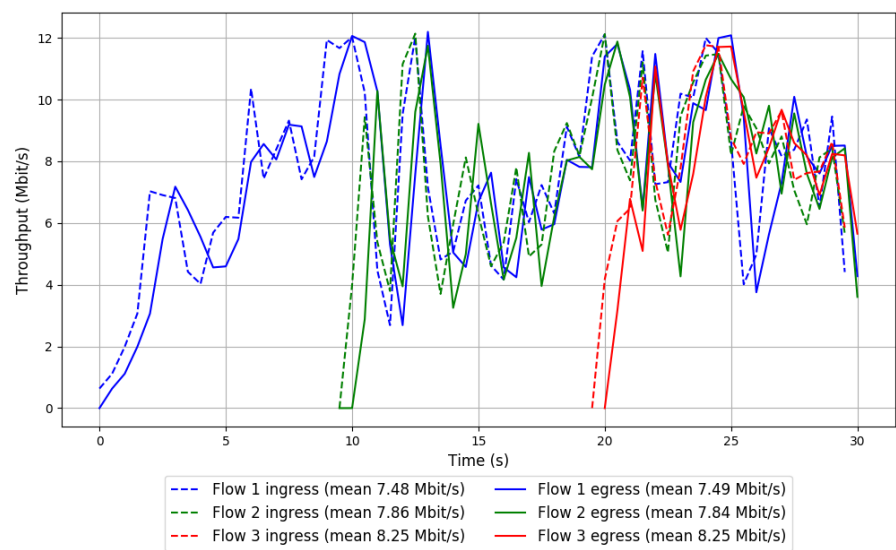


Run 3: Statistics of Sprout

Start at: 2019-01-03 10:41:09
End at: 2019-01-03 10:41:39
Local clock offset: -3.007 ms
Remote clock offset: 14.543 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 15.43 Mbit/s
95th percentile per-packet one-way delay: 69.012 ms
Loss rate: 0.55%
-- Flow 1:
Average throughput: 7.49 Mbit/s
95th percentile per-packet one-way delay: 68.773 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 7.84 Mbit/s
95th percentile per-packet one-way delay: 69.597 ms
Loss rate: 0.66%
-- Flow 3:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 68.681 ms
Loss rate: 1.19%

Run 3: Report of Sprout — Data Link

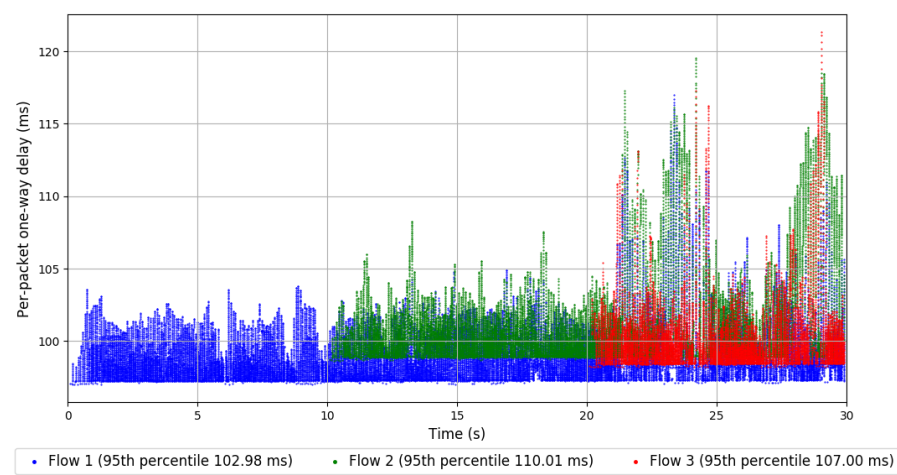
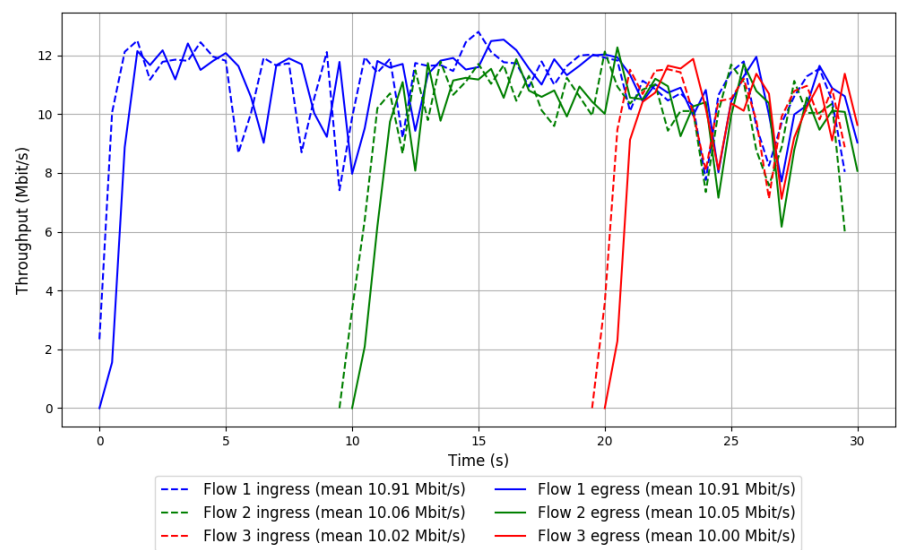


Run 4: Statistics of Sprout

Start at: 2019-01-03 11:05:37
End at: 2019-01-03 11:06:07
Local clock offset: 0.158 ms
Remote clock offset: -12.488 ms

```
# Below is generated by plot.py at 2019-01-03 11:50:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.88 Mbit/s
95th percentile per-packet one-way delay: 106.534 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 102.977 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 10.05 Mbit/s
95th percentile per-packet one-way delay: 110.010 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 10.00 Mbit/s
95th percentile per-packet one-way delay: 106.998 ms
Loss rate: 0.96%
```

Run 4: Report of Sprout — Data Link

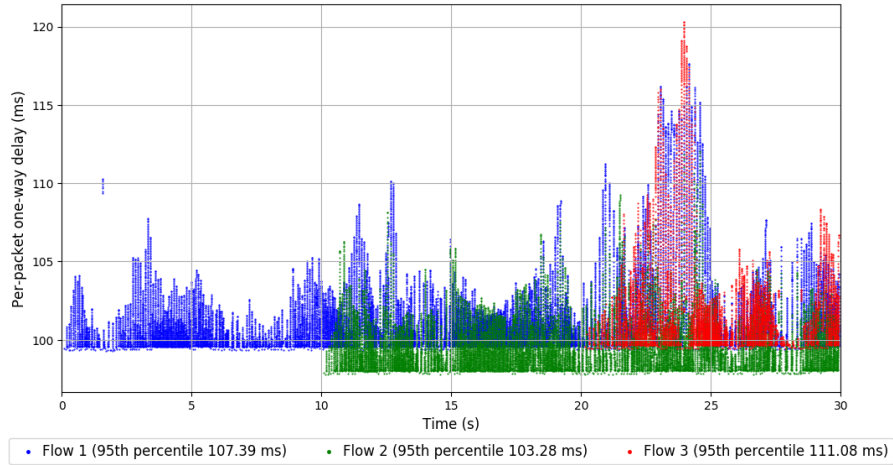
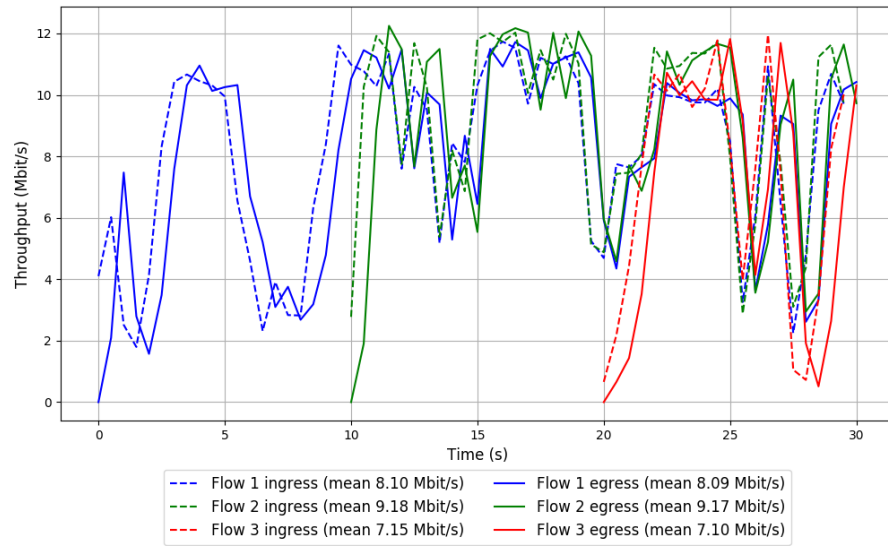


Run 5: Statistics of Sprout

Start at: 2019-01-03 11:30:55
End at: 2019-01-03 11:31:25
Local clock offset: -1.282 ms
Remote clock offset: -12.228 ms

Below is generated by plot.py at 2019-01-03 11:50:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 16.50 Mbit/s
95th percentile per-packet one-way delay: 106.554 ms
Loss rate: 0.57%
-- Flow 1:
Average throughput: 8.09 Mbit/s
95th percentile per-packet one-way delay: 107.387 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 9.17 Mbit/s
95th percentile per-packet one-way delay: 103.282 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 111.084 ms
Loss rate: 1.40%

Run 5: Report of Sprout — Data Link

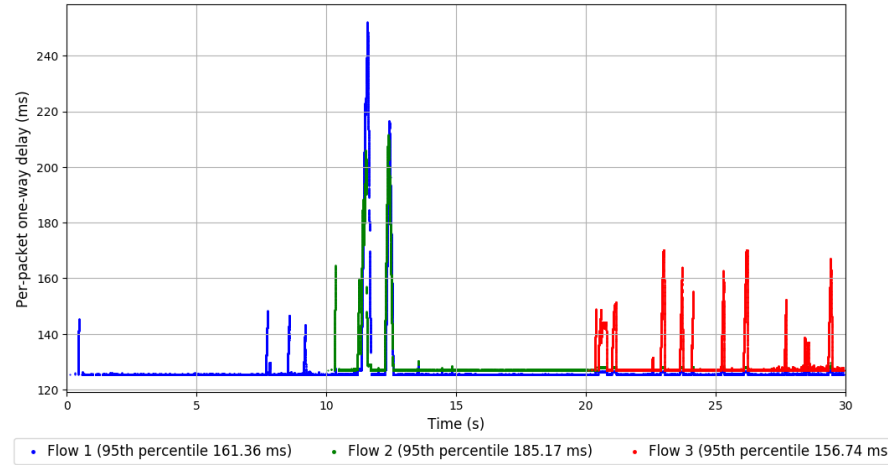
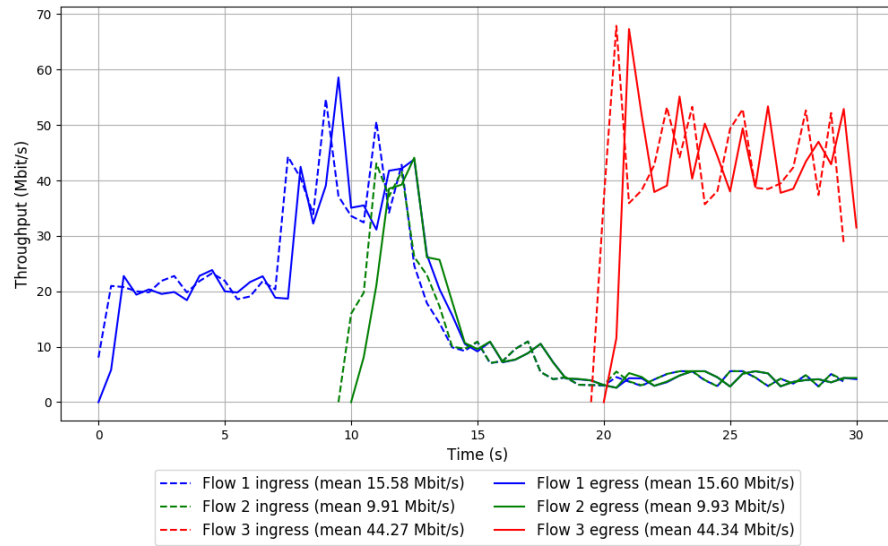


Run 1: Statistics of TaoVA-100x

Start at: 2019-01-03 09:53:51
End at: 2019-01-03 09:54:21
Local clock offset: -1.917 ms
Remote clock offset: -58.629 ms

Below is generated by plot.py at 2019-01-03 11:50:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 36.85 Mbit/s
95th percentile per-packet one-way delay: 162.024 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 15.60 Mbit/s
95th percentile per-packet one-way delay: 161.357 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 9.93 Mbit/s
95th percentile per-packet one-way delay: 185.166 ms
Loss rate: 0.26%
-- Flow 3:
Average throughput: 44.34 Mbit/s
95th percentile per-packet one-way delay: 156.738 ms
Loss rate: 0.71%

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



Run 2: Statistics of TaoVA-100x

Start at: 2019-01-03 10:17:52

End at: 2019-01-03 10:18:22

Local clock offset: 2.973 ms

Remote clock offset: 2.896 ms

Below is generated by plot.py at 2019-01-03 11:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 81.97 Mbit/s

95th percentile per-packet one-way delay: 197.524 ms

Loss rate: 0.63%

-- Flow 1:

Average throughput: 43.91 Mbit/s

95th percentile per-packet one-way delay: 177.460 ms

Loss rate: 0.46%

-- Flow 2:

Average throughput: 45.03 Mbit/s

95th percentile per-packet one-way delay: 164.141 ms

Loss rate: 0.56%

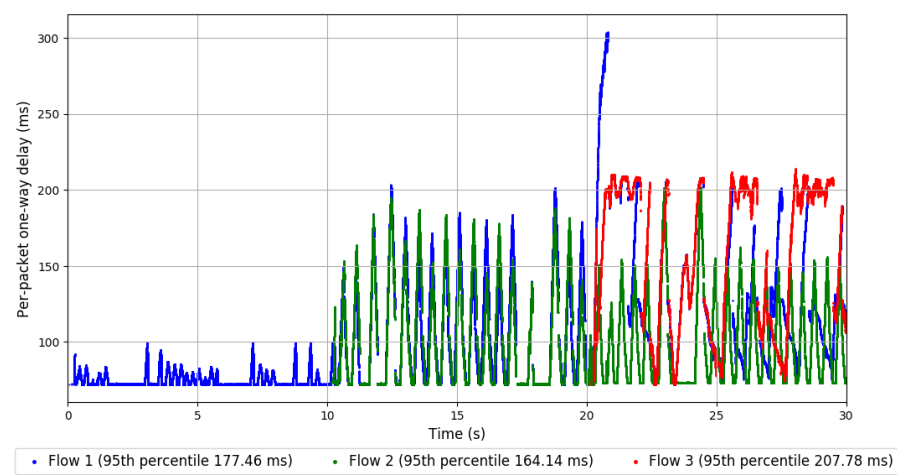
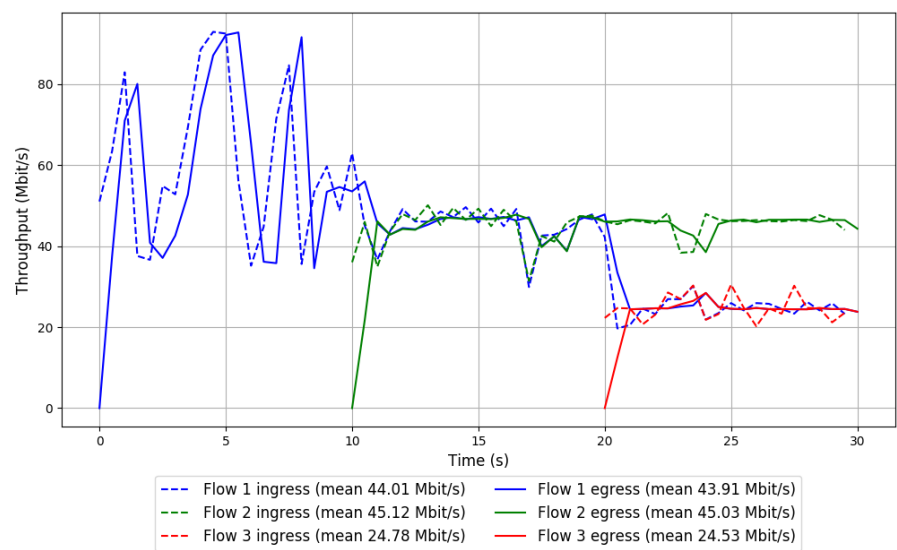
-- Flow 3:

Average throughput: 24.53 Mbit/s

95th percentile per-packet one-way delay: 207.777 ms

Loss rate: 1.80%

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



Run 3: Statistics of TaoVA-100x

Start at: 2019-01-03 10:42:19

End at: 2019-01-03 10:42:49

Local clock offset: 2.659 ms

Remote clock offset: 15.23 ms

Below is generated by plot.py at 2019-01-03 11:51:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 69.74 Mbit/s

95th percentile per-packet one-way delay: 152.753 ms

Loss rate: 0.60%

-- Flow 1:

Average throughput: 36.14 Mbit/s

95th percentile per-packet one-way delay: 150.383 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 32.62 Mbit/s

95th percentile per-packet one-way delay: 160.229 ms

Loss rate: 0.93%

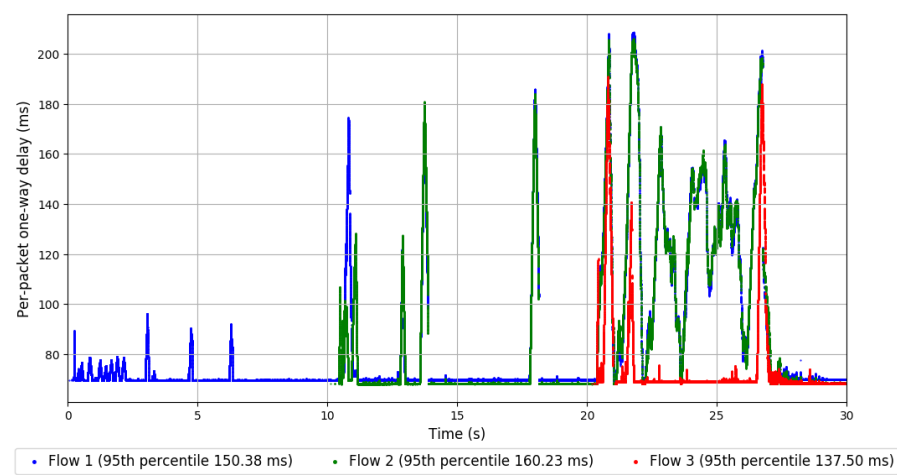
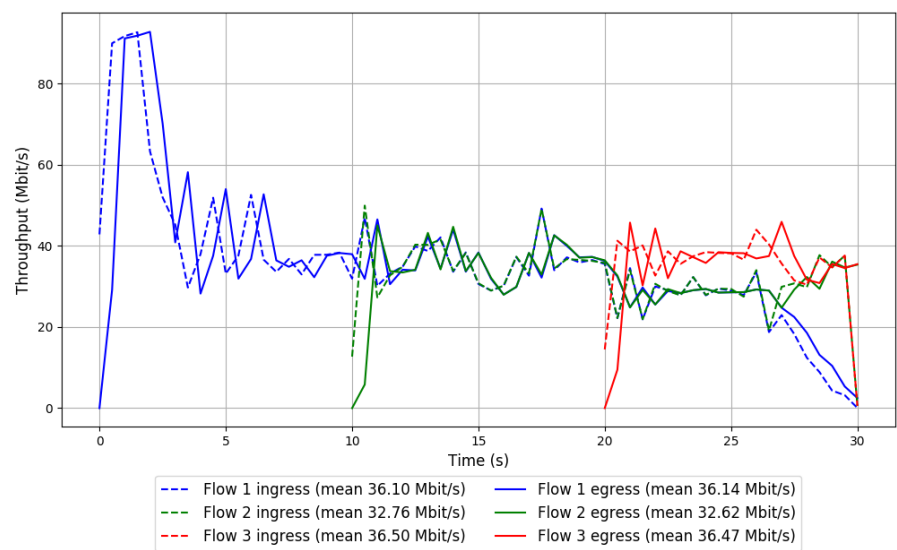
-- Flow 3:

Average throughput: 36.47 Mbit/s

95th percentile per-packet one-way delay: 137.497 ms

Loss rate: 1.12%

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

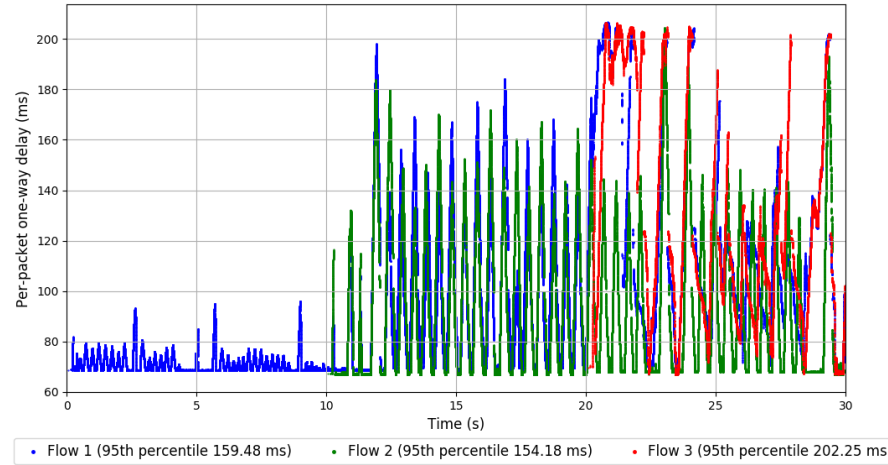
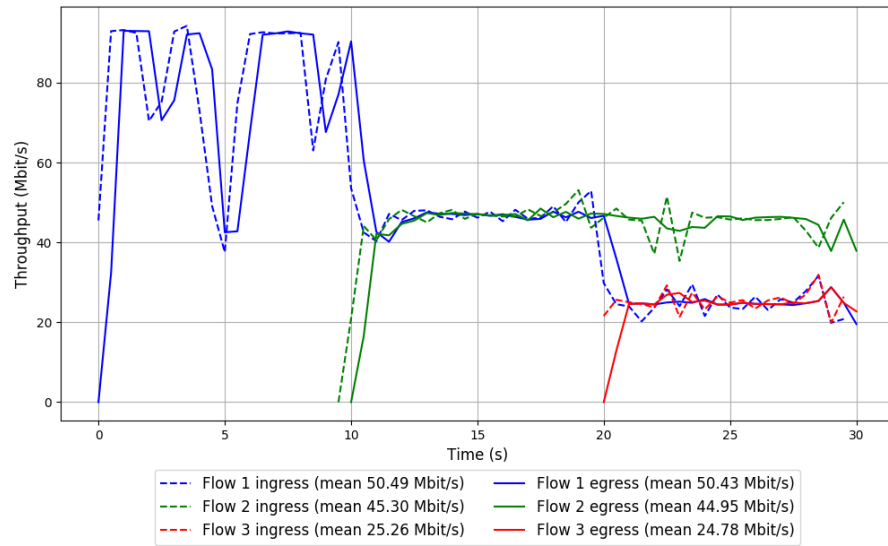


Run 4: Statistics of TaoVA-100x

Start at: 2019-01-03 11:06:50
End at: 2019-01-03 11:07:20
Local clock offset: 0.484 ms
Remote clock offset: 17.828 ms

Below is generated by plot.py at 2019-01-03 11:51:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 88.55 Mbit/s
95th percentile per-packet one-way delay: 171.519 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 50.43 Mbit/s
95th percentile per-packet one-way delay: 159.484 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 154.181 ms
Loss rate: 1.17%
-- Flow 3:
Average throughput: 24.78 Mbit/s
95th percentile per-packet one-way delay: 202.248 ms
Loss rate: 2.65%

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

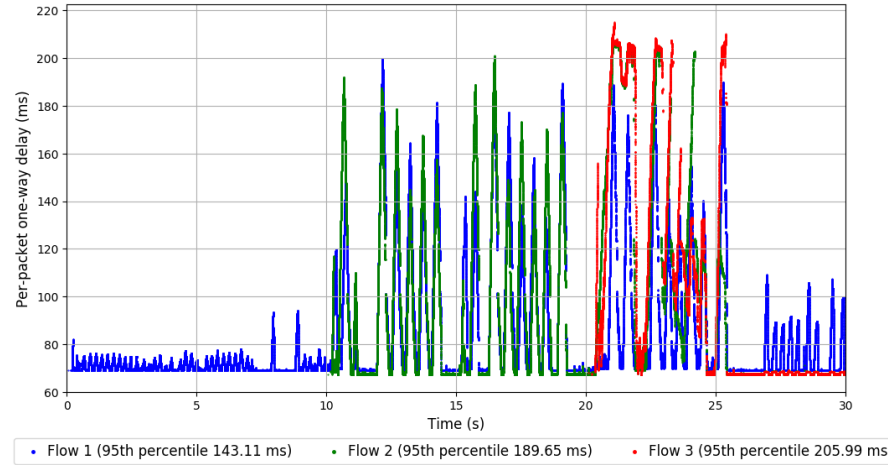
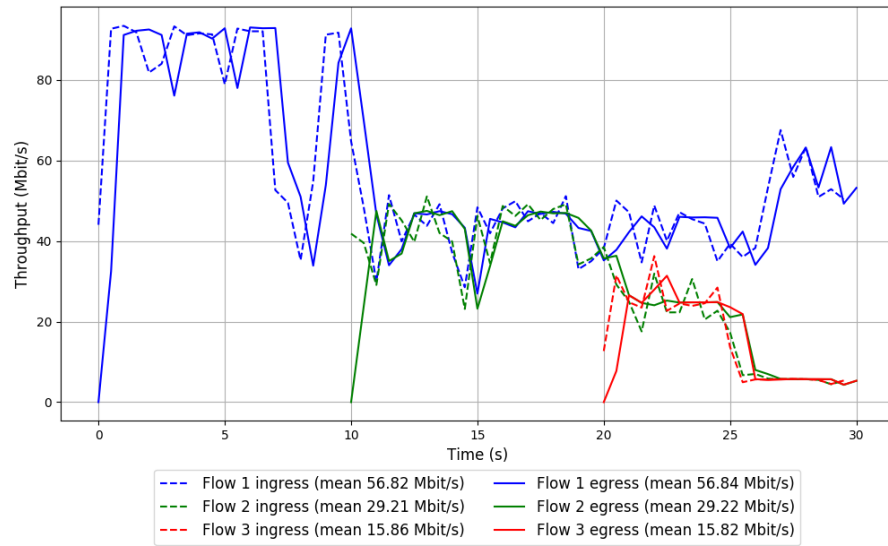


Run 5: Statistics of TaoVA-100x

Start at: 2019-01-03 11:32:05
End at: 2019-01-03 11:32:35
Local clock offset: 0.934 ms
Remote clock offset: 20.618 ms

Below is generated by plot.py at 2019-01-03 11:51:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 81.50 Mbit/s
95th percentile per-packet one-way delay: 173.073 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 56.84 Mbit/s
95th percentile per-packet one-way delay: 143.107 ms
Loss rate: 0.21%
-- Flow 2:
Average throughput: 29.22 Mbit/s
95th percentile per-packet one-way delay: 189.650 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 15.82 Mbit/s
95th percentile per-packet one-way delay: 205.985 ms
Loss rate: 0.98%

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

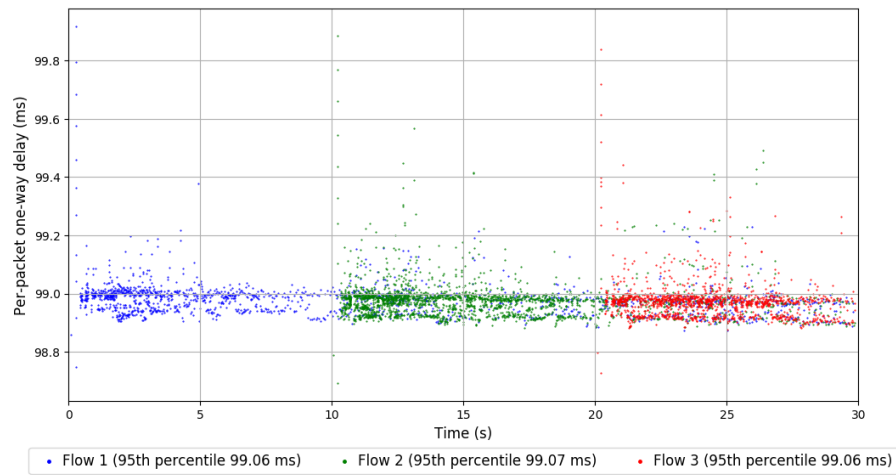
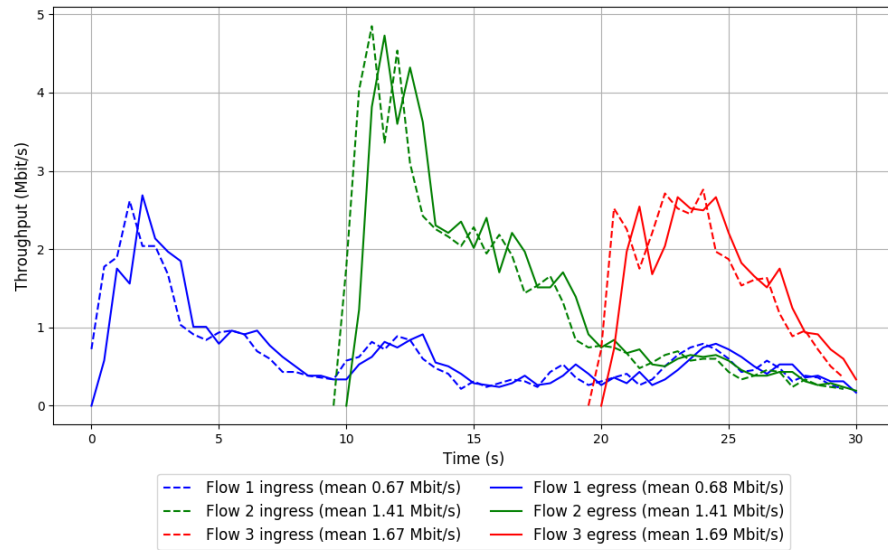


Run 1: Statistics of TCP Vegas

Start at: 2019-01-03 09:58:57
End at: 2019-01-03 09:59:27
Local clock offset: -0.564 ms
Remote clock offset: -28.579 ms

Below is generated by plot.py at 2019-01-03 11:51:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 99.062 ms
Loss rate: 0.22%
-- Flow 1:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 99.056 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 99.068 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 1.69 Mbit/s
95th percentile per-packet one-way delay: 99.061 ms
Loss rate: 0.36%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2019-01-03 10:23:03

End at: 2019-01-03 10:23:33

Local clock offset: 0.414 ms

Remote clock offset: 7.878 ms

Below is generated by plot.py at 2019-01-03 11:51:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 12.41 Mbit/s

95th percentile per-packet one-way delay: 66.715 ms

Loss rate: 0.77%

-- Flow 1:

Average throughput: 7.10 Mbit/s

95th percentile per-packet one-way delay: 65.209 ms

Loss rate: 0.45%

-- Flow 2:

Average throughput: 4.12 Mbit/s

95th percentile per-packet one-way delay: 66.868 ms

Loss rate: 1.07%

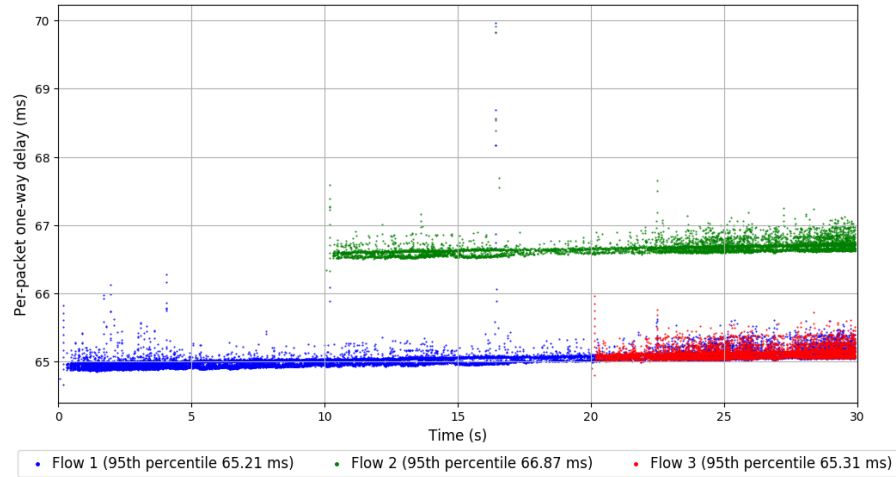
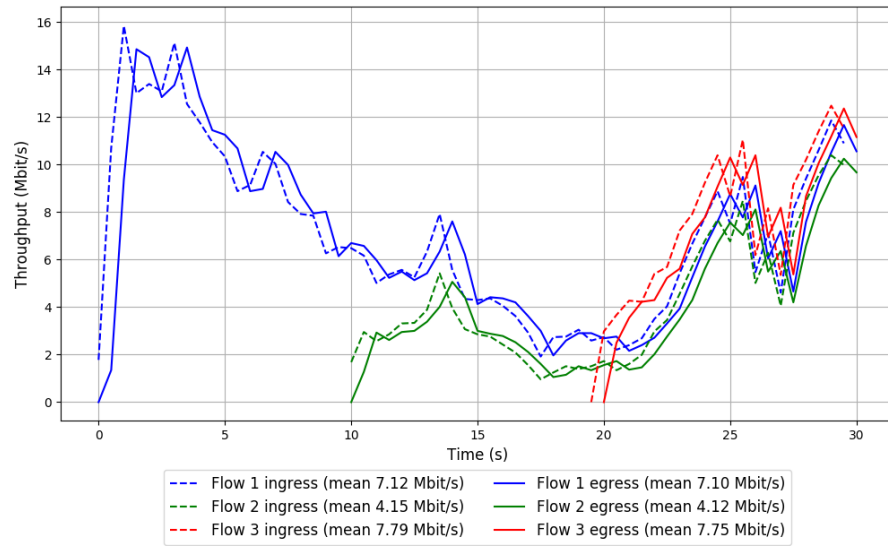
-- Flow 3:

Average throughput: 7.75 Mbit/s

95th percentile per-packet one-way delay: 65.310 ms

Loss rate: 1.31%

Run 2: Report of TCP Vegas — Data Link

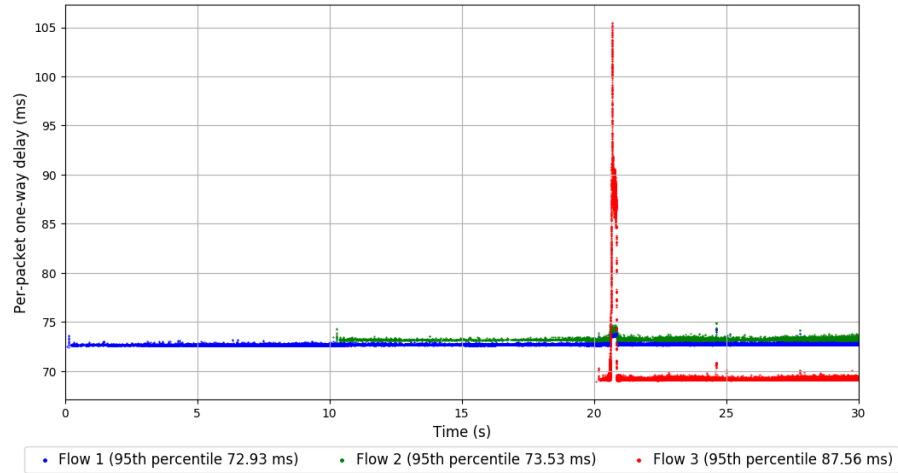
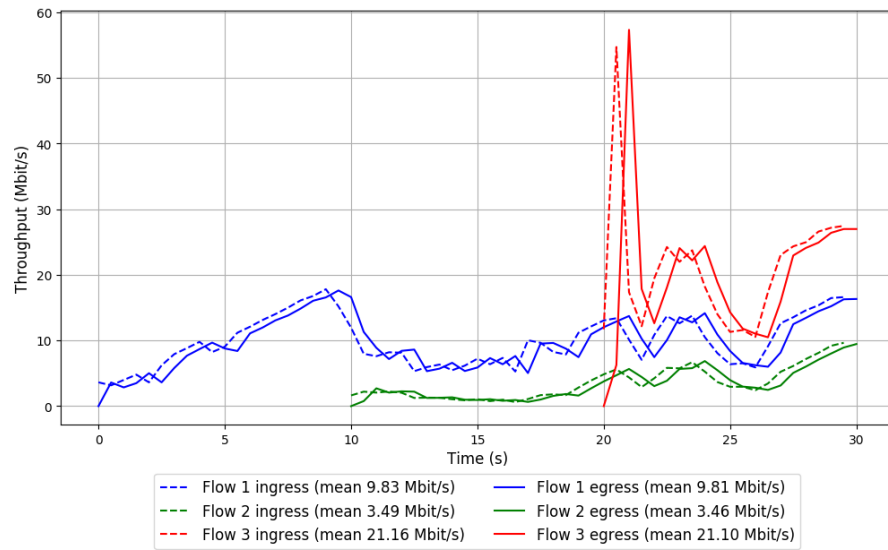


Run 3: Statistics of TCP Vegas

Start at: 2019-01-03 10:47:37
End at: 2019-01-03 10:48:07
Local clock offset: -0.507 ms
Remote clock offset: 14.278 ms

Below is generated by plot.py at 2019-01-03 11:51:41
Datalink statistics
-- Total of 3 flows:
Average throughput: 19.08 Mbit/s
95th percentile per-packet one-way delay: 73.435 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 9.81 Mbit/s
95th percentile per-packet one-way delay: 72.927 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 73.530 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 21.10 Mbit/s
95th percentile per-packet one-way delay: 87.555 ms
Loss rate: 1.04%

Run 3: Report of TCP Vegas — Data Link



Run 4: Statistics of TCP Vegas

Start at: 2019-01-03 11:12:59

End at: 2019-01-03 11:13:29

Local clock offset: -1.401 ms

Remote clock offset: 19.29 ms

Below is generated by plot.py at 2019-01-03 11:51:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 63.43 Mbit/s

95th percentile per-packet one-way delay: 67.310 ms

Loss rate: 0.38%

-- Flow 1:

Average throughput: 44.90 Mbit/s

95th percentile per-packet one-way delay: 66.219 ms

Loss rate: 0.22%

-- Flow 2:

Average throughput: 15.59 Mbit/s

95th percentile per-packet one-way delay: 67.461 ms

Loss rate: 0.64%

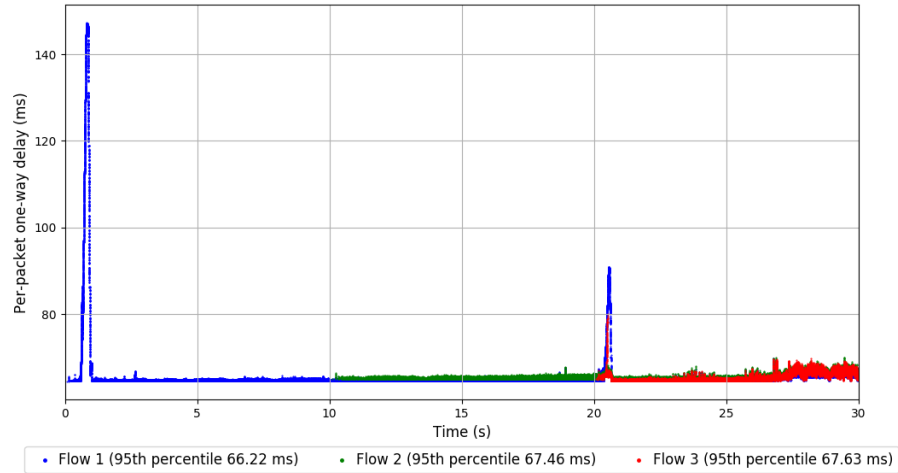
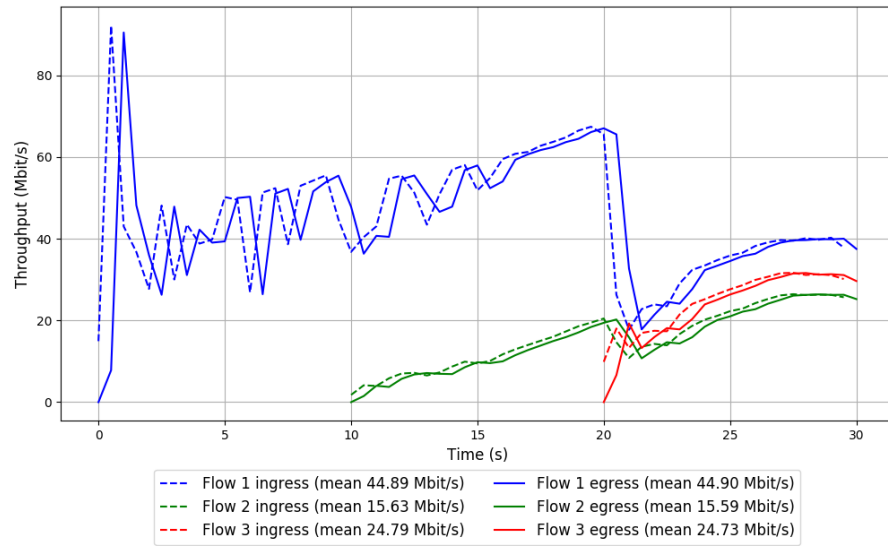
-- Flow 3:

Average throughput: 24.73 Mbit/s

95th percentile per-packet one-way delay: 67.632 ms

Loss rate: 0.93%

Run 4: Report of TCP Vegas — Data Link



Run 5: Statistics of TCP Vegas

Start at: 2019-01-03 11:37:35

End at: 2019-01-03 11:38:05

Local clock offset: 0.26 ms

Remote clock offset: 11.25 ms

Below is generated by plot.py at 2019-01-03 11:51:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 87.97 Mbit/s

95th percentile per-packet one-way delay: 82.631 ms

Loss rate: 0.32%

-- Flow 1:

Average throughput: 50.60 Mbit/s

95th percentile per-packet one-way delay: 83.117 ms

Loss rate: 0.23%

-- Flow 2:

Average throughput: 47.78 Mbit/s

95th percentile per-packet one-way delay: 81.085 ms

Loss rate: 0.37%

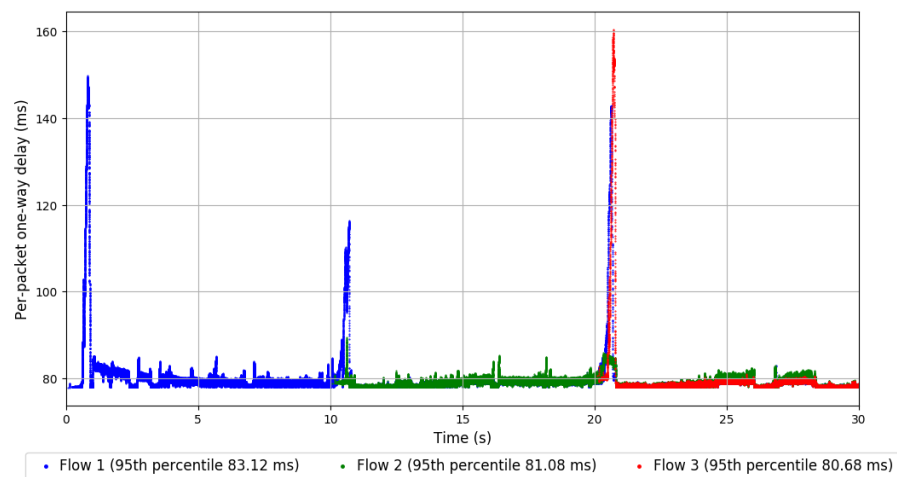
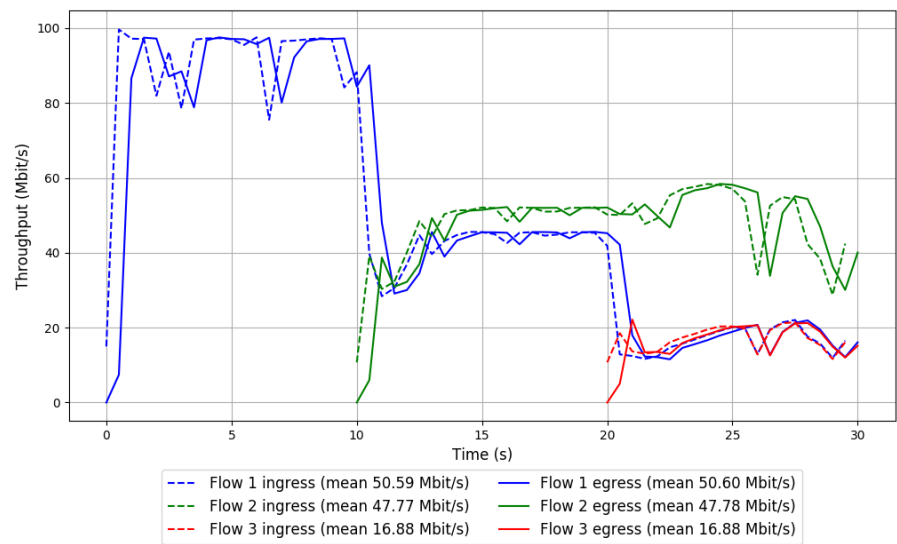
-- Flow 3:

Average throughput: 16.88 Mbit/s

95th percentile per-packet one-way delay: 80.676 ms

Loss rate: 0.84%

Run 5: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

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

End at: 2019-01-03 10:01:52

Local clock offset: 1.031 ms

Remote clock offset: 5.705 ms

Below is generated by plot.py at 2019-01-03 11:51:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 65.56 Mbit/s

95th percentile per-packet one-way delay: 316.325 ms

Loss rate: 0.87%

-- Flow 1:

Average throughput: 33.56 Mbit/s

95th percentile per-packet one-way delay: 297.844 ms

Loss rate: 1.14%

-- Flow 2:

Average throughput: 33.93 Mbit/s

95th percentile per-packet one-way delay: 430.398 ms

Loss rate: 0.27%

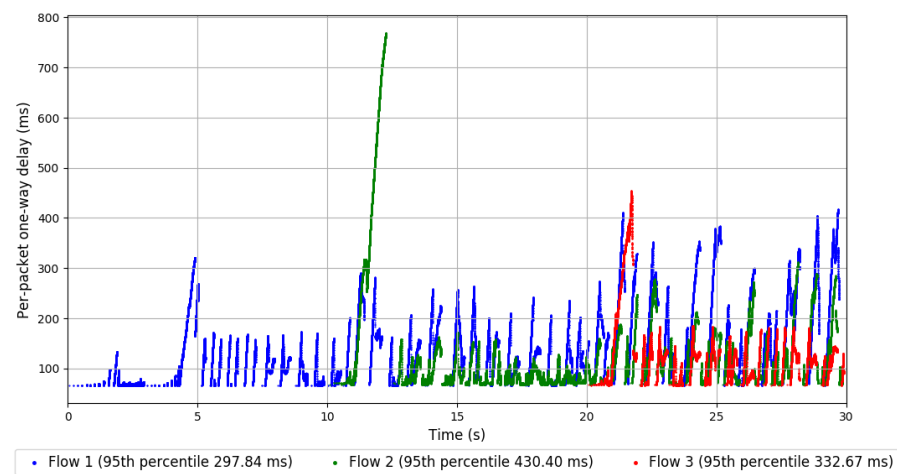
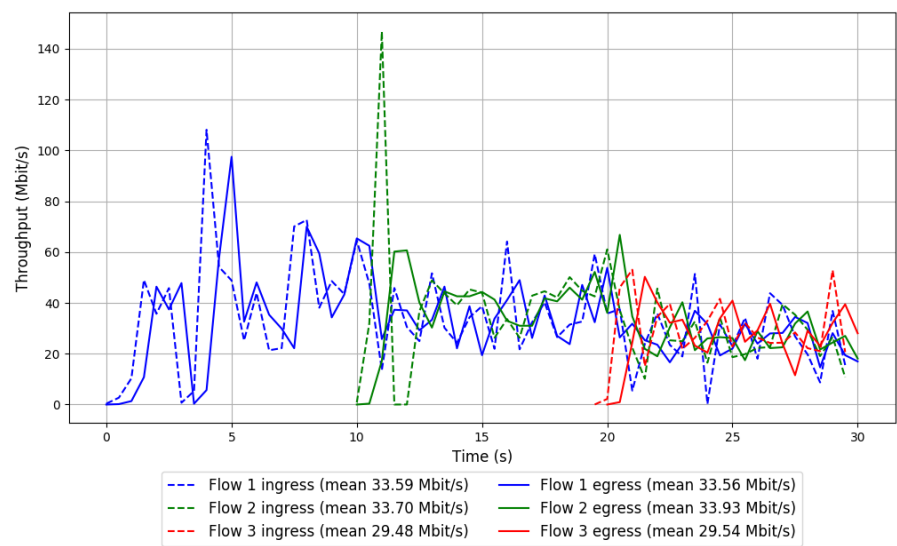
-- Flow 3:

Average throughput: 29.54 Mbit/s

95th percentile per-packet one-way delay: 332.672 ms

Loss rate: 1.31%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2019-01-03 10:25:22

End at: 2019-01-03 10:25:52

Local clock offset: 2.84 ms

Remote clock offset: 9.342 ms

Below is generated by plot.py at 2019-01-03 11:51:41

Datalink statistics

-- Total of 3 flows:

Average throughput: 78.50 Mbit/s

95th percentile per-packet one-way delay: 261.223 ms

Loss rate: 0.74%

-- Flow 1:

Average throughput: 41.60 Mbit/s

95th percentile per-packet one-way delay: 281.738 ms

Loss rate: 0.54%

-- Flow 2:

Average throughput: 43.51 Mbit/s

95th percentile per-packet one-way delay: 145.831 ms

Loss rate: 0.83%

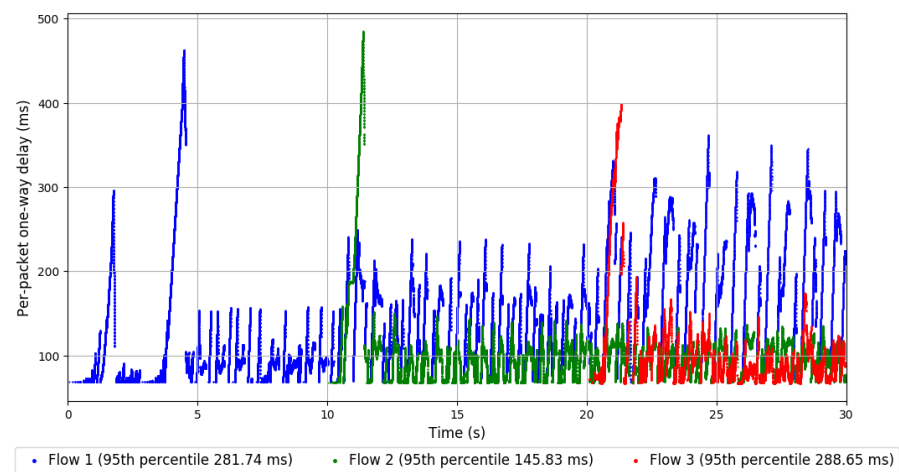
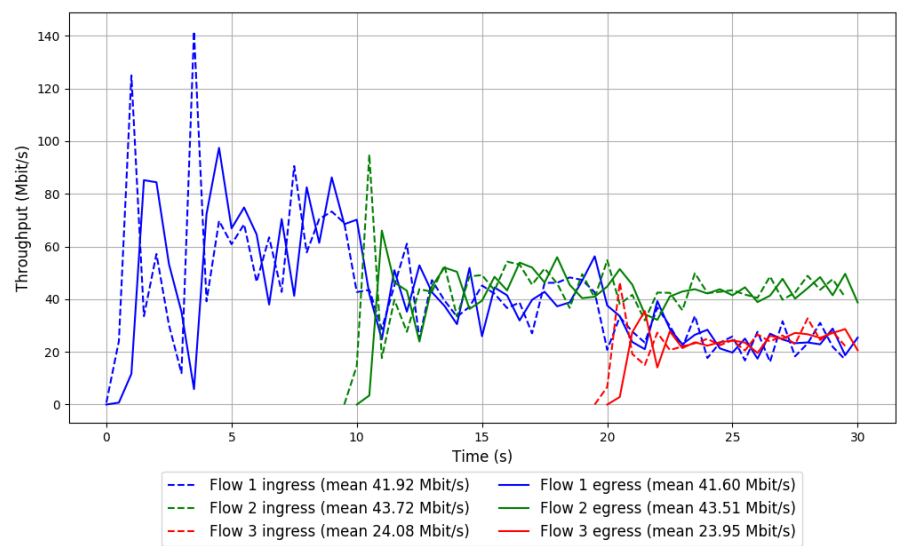
-- Flow 3:

Average throughput: 23.95 Mbit/s

95th percentile per-packet one-way delay: 288.650 ms

Loss rate: 1.43%

Run 2: Report of Verus — Data Link

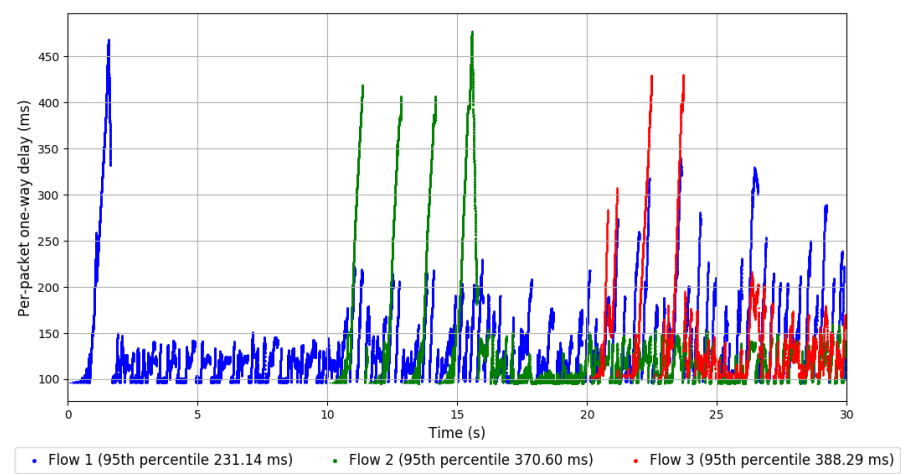
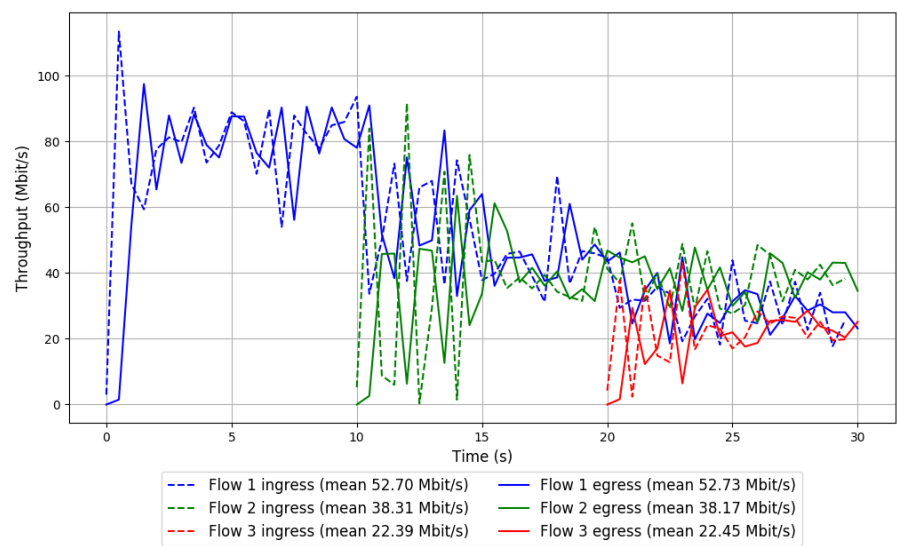


Run 3: Statistics of Verus

Start at: 2019-01-03 10:49:58
End at: 2019-01-03 10:50:28
Local clock offset: 1.601 ms
Remote clock offset: -11.107 ms

Below is generated by plot.py at 2019-01-03 11:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 85.50 Mbit/s
95th percentile per-packet one-way delay: 300.588 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 52.73 Mbit/s
95th percentile per-packet one-way delay: 231.137 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 38.17 Mbit/s
95th percentile per-packet one-way delay: 370.603 ms
Loss rate: 0.91%
-- Flow 3:
Average throughput: 22.45 Mbit/s
95th percentile per-packet one-way delay: 388.288 ms
Loss rate: 0.60%

Run 3: Report of Verus — Data Link

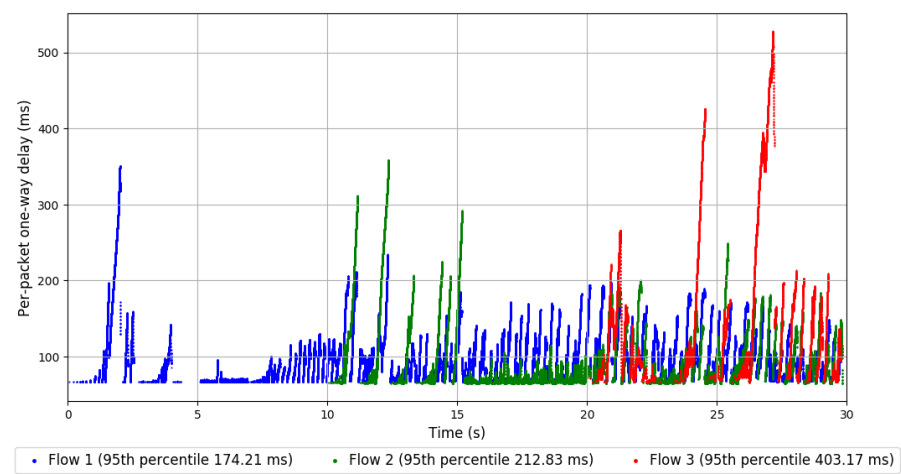
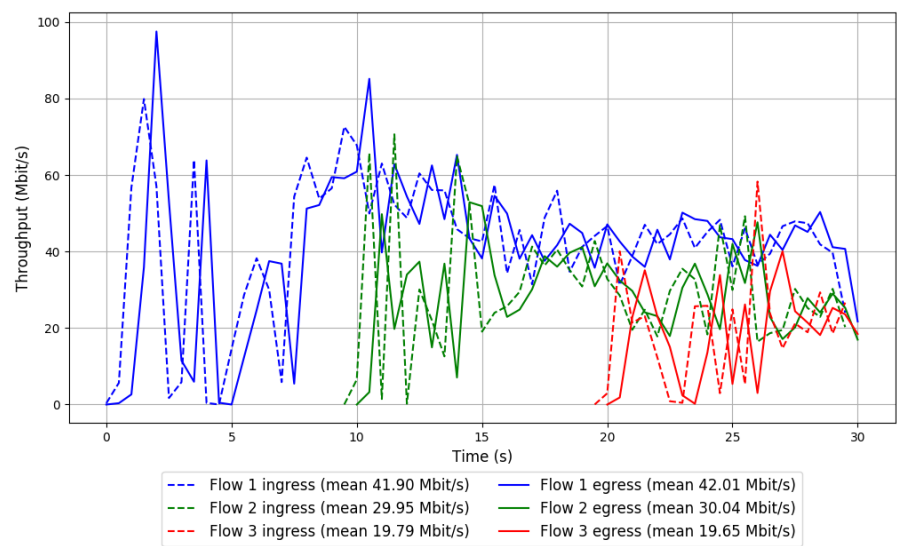


Run 4: Statistics of Verus

Start at: 2019-01-03 11:15:28
End at: 2019-01-03 11:15:58
Local clock offset: -1.39 ms
Remote clock offset: 19.811 ms

Below is generated by plot.py at 2019-01-03 11:51:52
Datalink statistics
-- Total of 3 flows:
Average throughput: 68.43 Mbit/s
95th percentile per-packet one-way delay: 208.479 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 42.01 Mbit/s
95th percentile per-packet one-way delay: 174.206 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 30.04 Mbit/s
95th percentile per-packet one-way delay: 212.832 ms
Loss rate: 0.85%
-- Flow 3:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 403.168 ms
Loss rate: 3.49%

Run 4: Report of Verus — Data Link

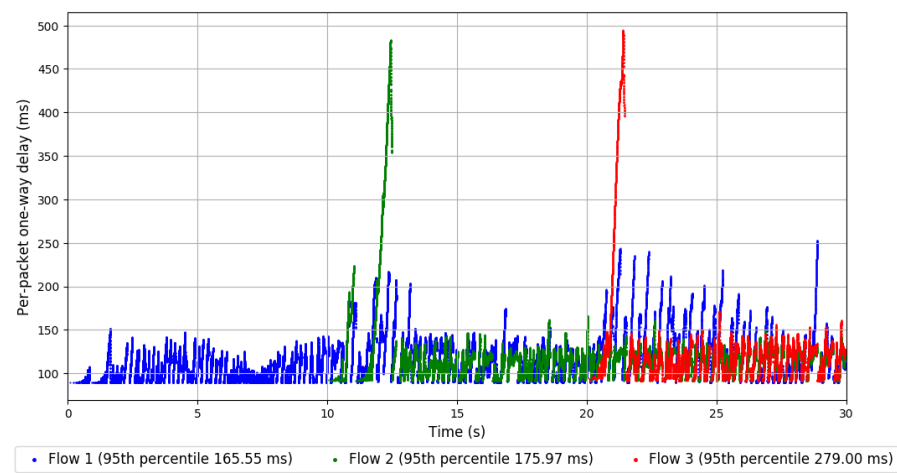
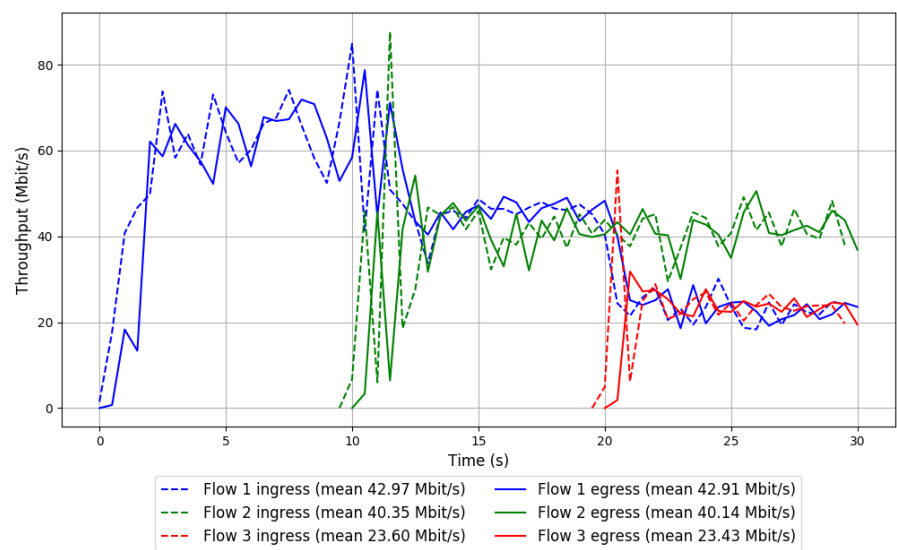


Run 5: Statistics of Verus

Start at: 2019-01-03 11:40:15
End at: 2019-01-03 11:40:45
Local clock offset: 1.135 ms
Remote clock offset: -0.719 ms

Below is generated by plot.py at 2019-01-03 11:52:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 77.43 Mbit/s
95th percentile per-packet one-way delay: 168.643 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 42.91 Mbit/s
95th percentile per-packet one-way delay: 165.547 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 175.966 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 23.43 Mbit/s
95th percentile per-packet one-way delay: 278.997 ms
Loss rate: 1.44%

Run 5: Report of Verus — Data Link

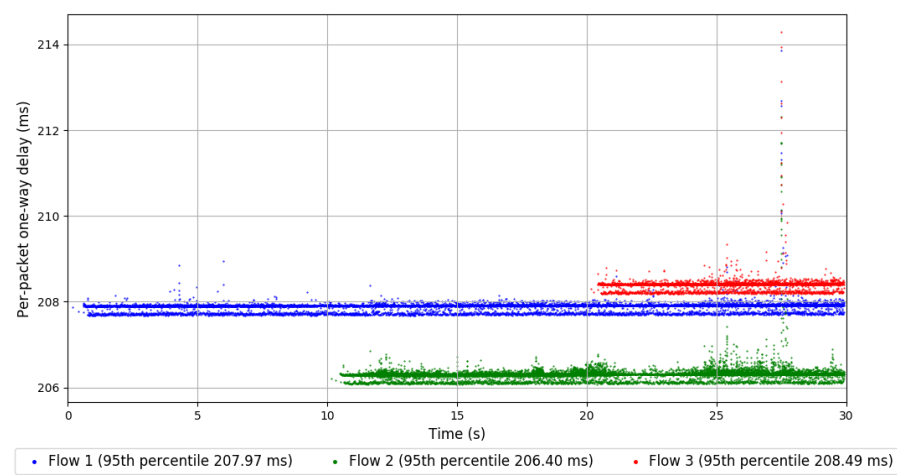
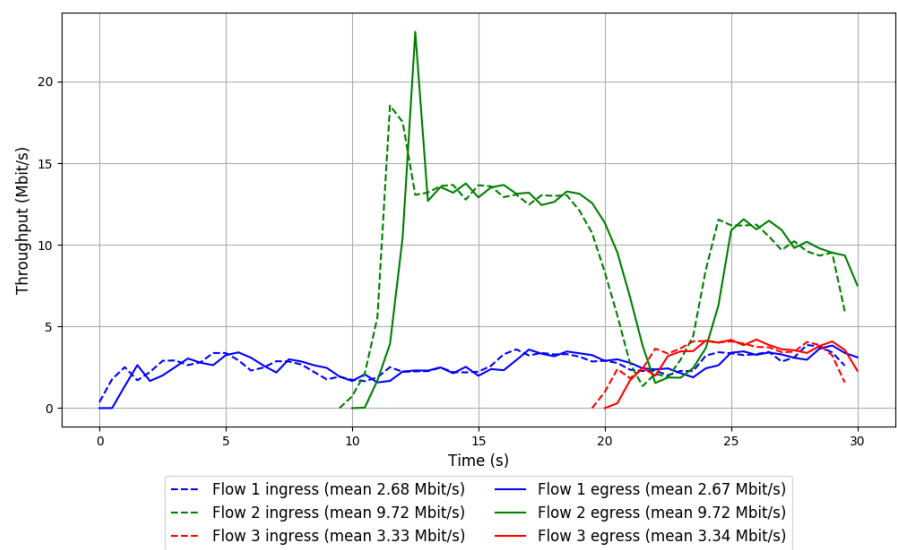


Run 1: Statistics of PCC-Vivace

Start at: 2019-01-03 09:46:10
End at: 2019-01-03 09:46:40
Local clock offset: 1.545 ms
Remote clock offset: -136.396 ms

Below is generated by plot.py at 2019-01-03 11:52:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 10.23 Mbit/s
95th percentile per-packet one-way delay: 208.407 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 2.67 Mbit/s
95th percentile per-packet one-way delay: 207.972 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 9.72 Mbit/s
95th percentile per-packet one-way delay: 206.398 ms
Loss rate: 0.60%
-- Flow 3:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 208.489 ms
Loss rate: 0.75%

Run 1: Report of PCC-Vivace — Data Link

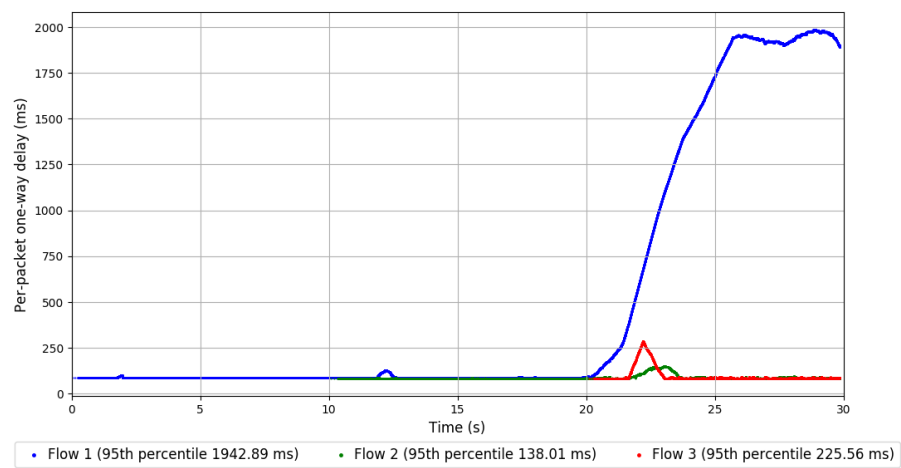
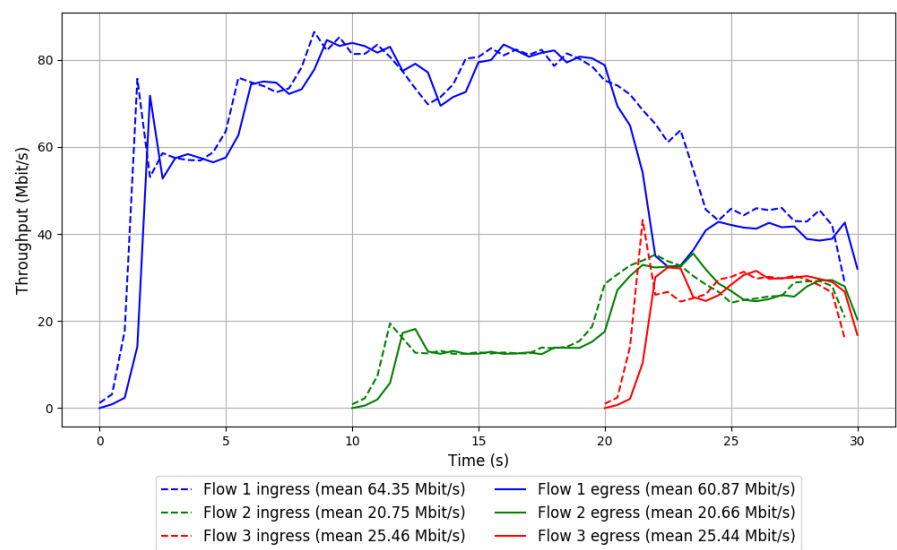


Run 2: Statistics of PCC-Vivace

Start at: 2019-01-03 10:10:14
End at: 2019-01-03 10:10:44
Local clock offset: 1.242 ms
Remote clock offset: -10.657 ms

Below is generated by plot.py at 2019-01-03 11:52:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 82.92 Mbit/s
95th percentile per-packet one-way delay: 1924.667 ms
Loss rate: 4.42%
-- Flow 1:
Average throughput: 60.87 Mbit/s
95th percentile per-packet one-way delay: 1942.891 ms
Loss rate: 5.65%
-- Flow 2:
Average throughput: 20.66 Mbit/s
95th percentile per-packet one-way delay: 138.007 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 25.44 Mbit/s
95th percentile per-packet one-way delay: 225.562 ms
Loss rate: 0.89%

Run 2: Report of PCC-Vivace — Data Link

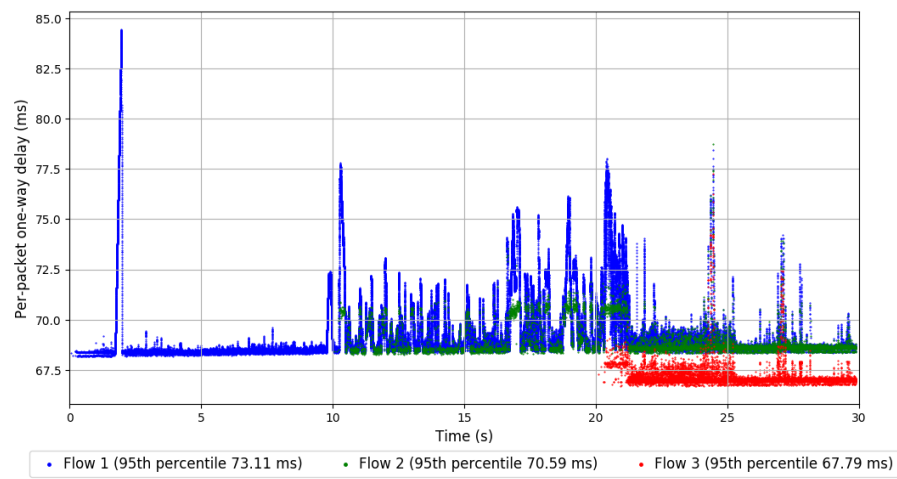
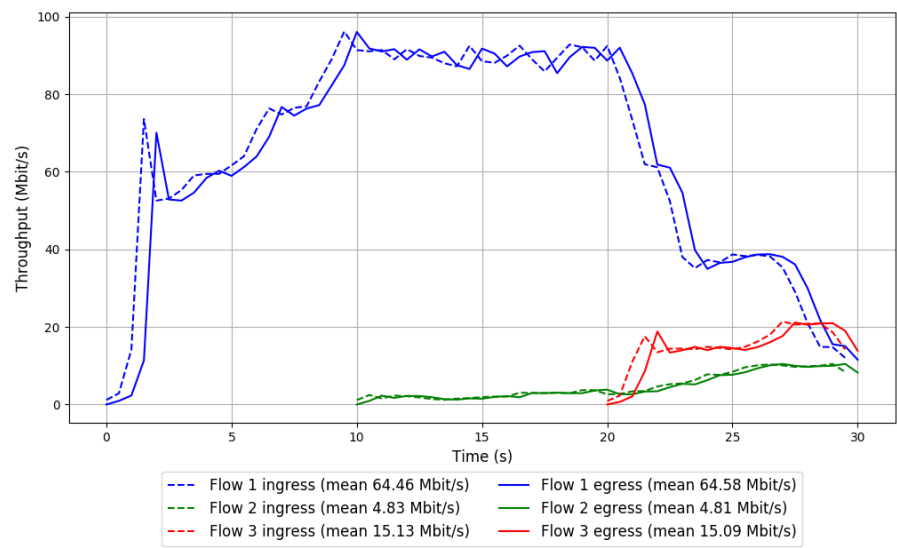


Run 3: Statistics of PCC-Vivace

Start at: 2019-01-03 10:34:30
End at: 2019-01-03 10:35:00
Local clock offset: 1.605 ms
Remote clock offset: 12.543 ms

Below is generated by plot.py at 2019-01-03 11:52:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 72.72 Mbit/s
95th percentile per-packet one-way delay: 72.760 ms
Loss rate: 0.16%
-- Flow 1:
Average throughput: 64.58 Mbit/s
95th percentile per-packet one-way delay: 73.109 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 4.81 Mbit/s
95th percentile per-packet one-way delay: 70.588 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 15.09 Mbit/s
95th percentile per-packet one-way delay: 67.789 ms
Loss rate: 0.97%

Run 3: Report of PCC-Vivace — Data Link

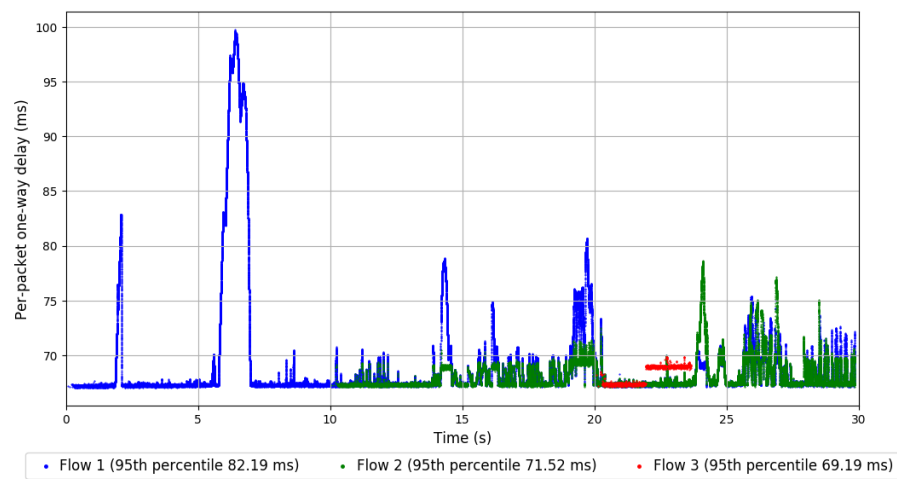
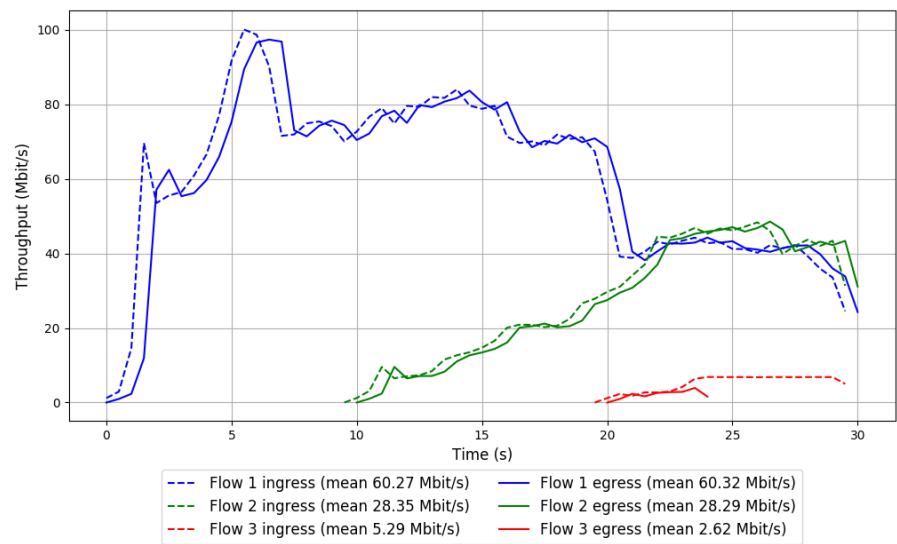


Run 4: Statistics of PCC-Vivace

Start at: 2019-01-03 10:58:44
End at: 2019-01-03 10:59:14
Local clock offset: 2.118 ms
Remote clock offset: 17.897 ms

Below is generated by plot.py at 2019-01-03 11:52:14
Datalink statistics
-- Total of 3 flows:
Average throughput: 79.44 Mbit/s
95th percentile per-packet one-way delay: 78.134 ms
Loss rate: 2.02%
-- Flow 1:
Average throughput: 60.32 Mbit/s
95th percentile per-packet one-way delay: 82.190 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 28.29 Mbit/s
95th percentile per-packet one-way delay: 71.522 ms
Loss rate: 0.54%
-- Flow 3:
Average throughput: 2.62 Mbit/s
95th percentile per-packet one-way delay: 69.186 ms
Loss rate: 82.04%

Run 4: Report of PCC-Vivace — Data Link

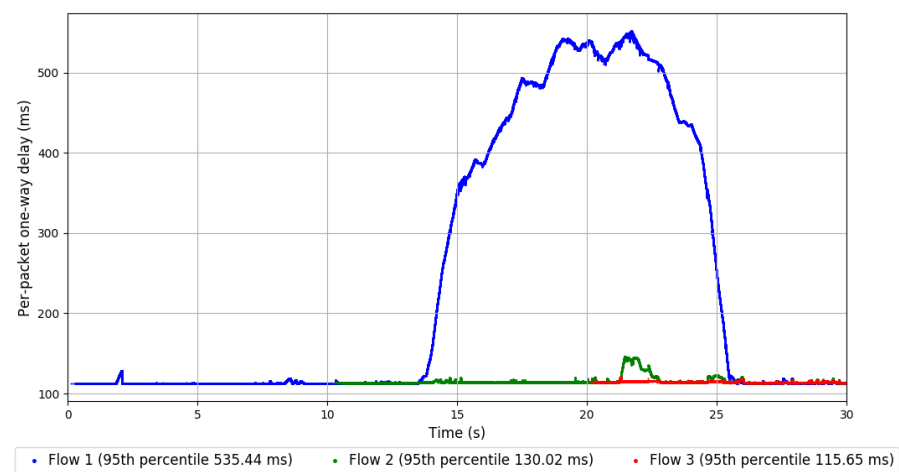
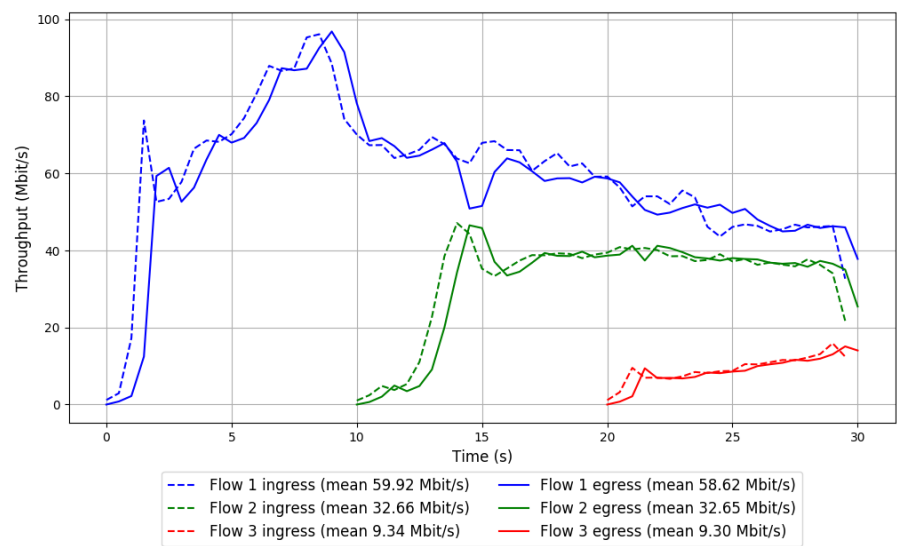


Run 5: Statistics of PCC-Vivace

Start at: 2019-01-03 11:24:47
End at: 2019-01-03 11:25:17
Local clock offset: 1.185 ms
Remote clock offset: -24.492 ms

Below is generated by plot.py at 2019-01-03 11:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 83.36 Mbit/s
95th percentile per-packet one-way delay: 530.166 ms
Loss rate: 1.84%
-- Flow 1:
Average throughput: 58.62 Mbit/s
95th percentile per-packet one-way delay: 535.442 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 32.65 Mbit/s
95th percentile per-packet one-way delay: 130.017 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 9.30 Mbit/s
95th percentile per-packet one-way delay: 115.649 ms
Loss rate: 1.21%

Run 5: Report of PCC-Vivace — Data Link

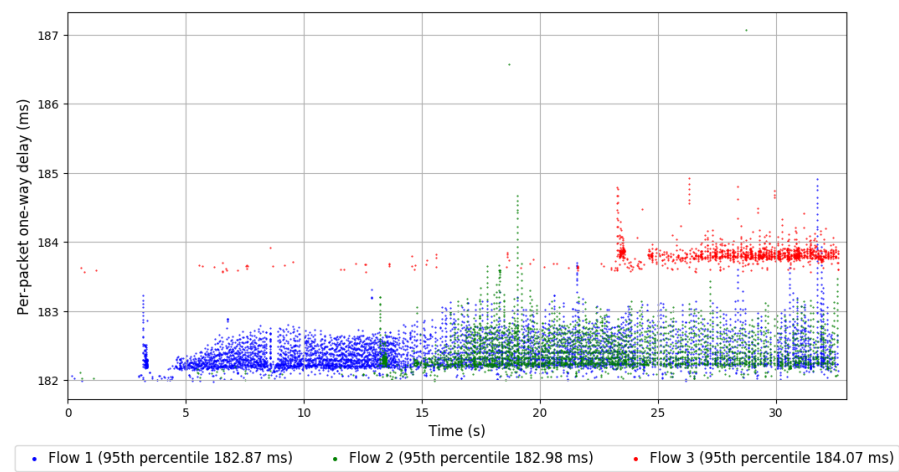
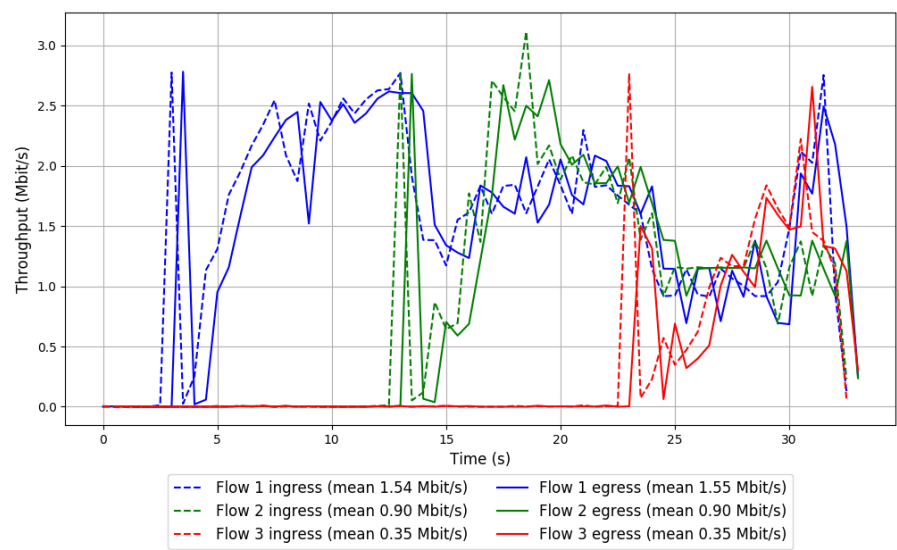


Run 1: Statistics of WebRTC media

Start at: 2019-01-03 09:48:38
End at: 2019-01-03 09:49:08
Local clock offset: -0.57 ms
Remote clock offset: -114.272 ms

Below is generated by plot.py at 2019-01-03 11:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 183.840 ms
Loss rate: 0.44%
-- Flow 1:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 182.865 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 182.979 ms
Loss rate: 0.78%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 184.072 ms
Loss rate: 0.93%

Run 1: Report of WebRTC media — Data Link

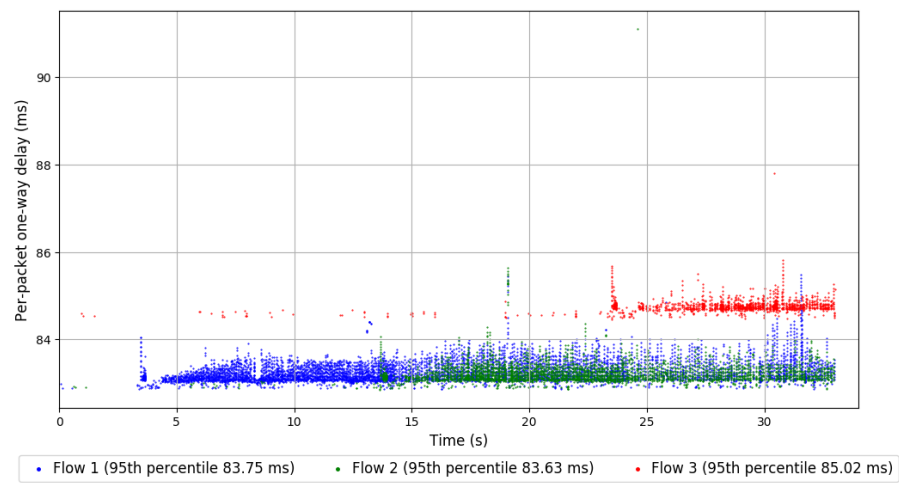
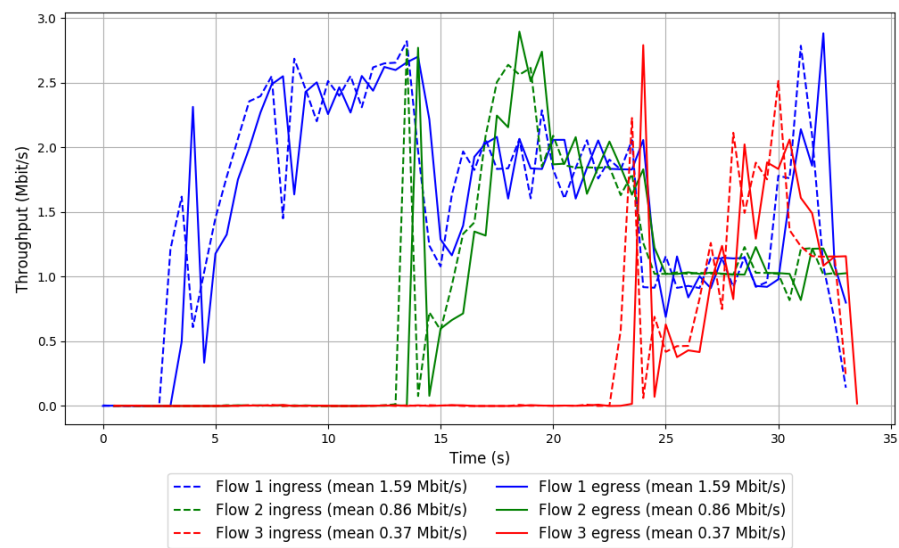


Run 2: Statistics of WebRTC media

Start at: 2019-01-03 10:12:55
End at: 2019-01-03 10:13:25
Local clock offset: -0.176 ms
Remote clock offset: -12.825 ms

Below is generated by plot.py at 2019-01-03 11:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 84.782 ms
Loss rate: 0.42%
-- Flow 1:
Average throughput: 1.59 Mbit/s
95th percentile per-packet one-way delay: 83.754 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.86 Mbit/s
95th percentile per-packet one-way delay: 83.630 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 85.017 ms
Loss rate: 1.83%

Run 2: Report of WebRTC media — Data Link

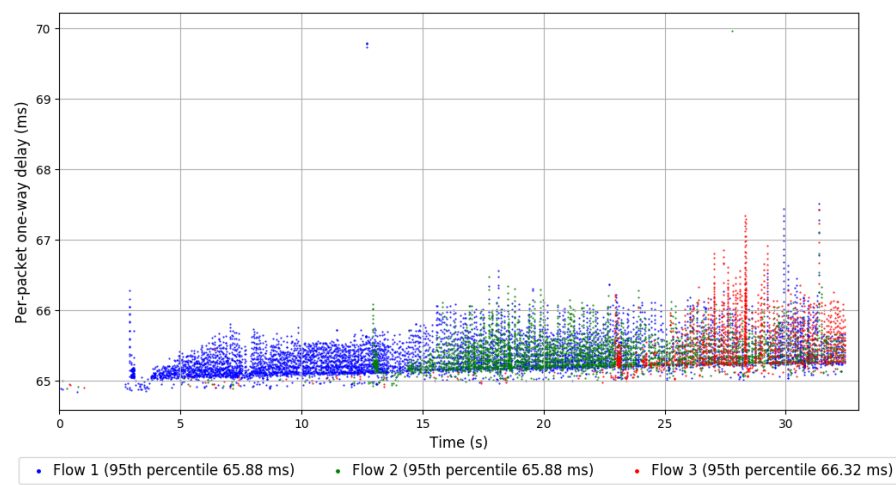
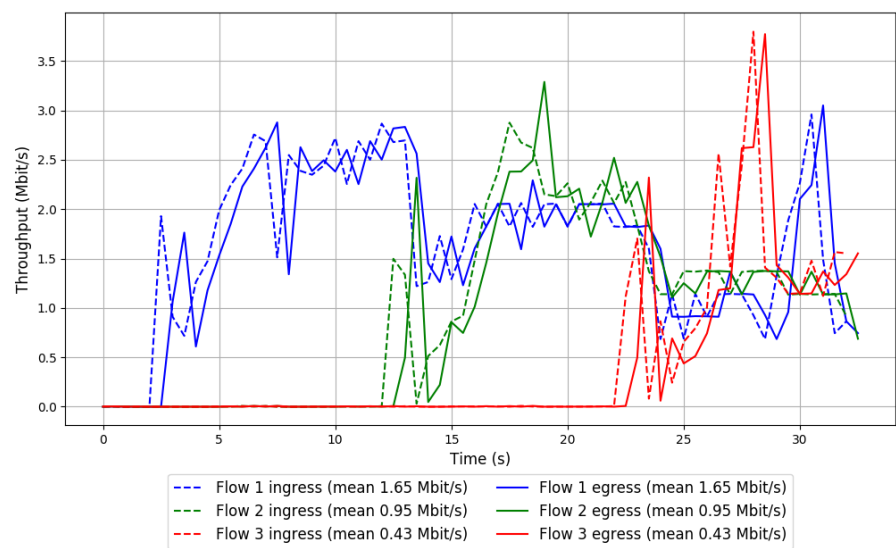


Run 3: Statistics of WebRTC media

Start at: 2019-01-03 10:37:13
End at: 2019-01-03 10:37:43
Local clock offset: -0.403 ms
Remote clock offset: 13.385 ms

Below is generated by plot.py at 2019-01-03 11:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 3.02 Mbit/s
95th percentile per-packet one-way delay: 65.974 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 65.875 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 65.878 ms
Loss rate: 0.37%
-- Flow 3:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 66.324 ms
Loss rate: 0.82%

Run 3: Report of WebRTC media — Data Link

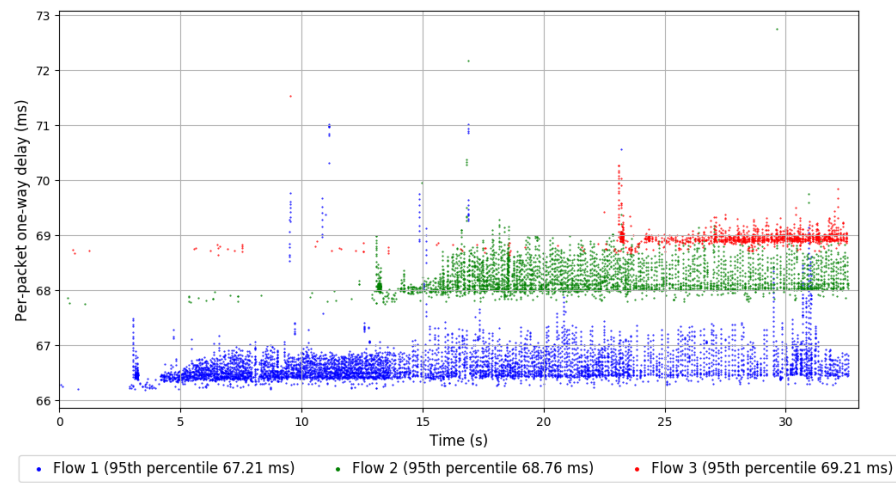
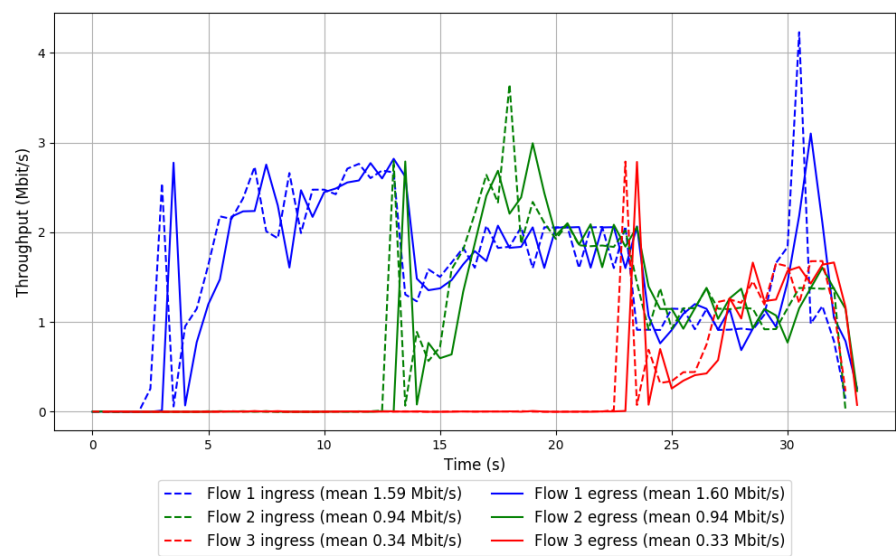


Run 4: Statistics of WebRTC media

Start at: 2019-01-03 11:01:34
End at: 2019-01-03 11:02:04
Local clock offset: 0.367 ms
Remote clock offset: 17.419 ms

```
# Below is generated by plot.py at 2019-01-03 11:52:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 68.974 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 67.207 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 0.94 Mbit/s
95th percentile per-packet one-way delay: 68.761 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 69.213 ms
Loss rate: 1.06%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2019-01-03 11:27:17
End at: 2019-01-03 11:27:47
Local clock offset: 2.18 ms
Remote clock offset: 18.077 ms

Below is generated by plot.py at 2019-01-03 11:52:15
Datalink statistics
-- Total of 3 flows:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 73.479 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 73.655 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 71.560 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 71.283 ms
Loss rate: 0.96%

Run 5: Report of WebRTC media — Data Link

