

## Pantheon Report

Generated at 2018-08-22 06:04:51 (UTC).

Data path: AWS India 1 Ethernet (*local*) → India Ethernet (*remote*).

Repeated the test of 17 congestion control schemes 10 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.

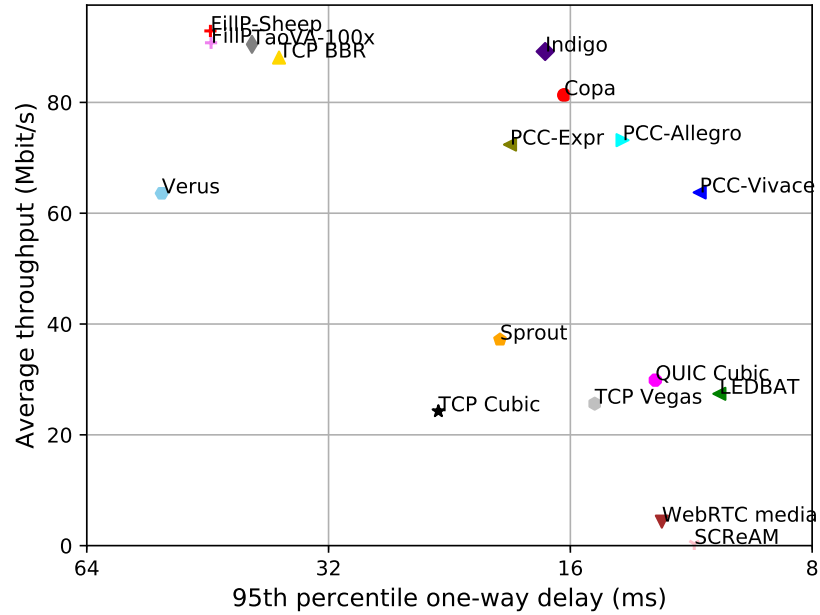
### System info:

```
Linux 4.15.0-1017-aws
net.core.default_qdisc = fq_codel
net.core.rmem_default = 16777216
net.core.rmem_max = 33554432
net.core.wmem_default = 212992
net.core.wmem_max = 212992
net.ipv4.tcp_rmem = 4096 87380 6291456
net.ipv4.tcp_wmem = 4096 16384 4194304
```

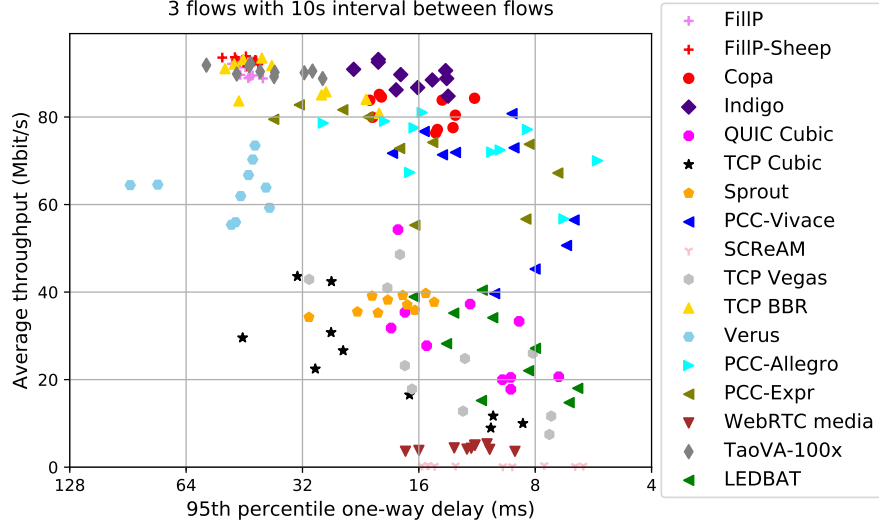
### Git summary:

```
branch: master @ 7719b900495aa706f8452ab7d4a94dd562e9296e
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ daed0c84f98531712514b2231f43ec6901114ffe
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
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-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

test from AWS India 1 to India, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from AWS India 1 to India, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows





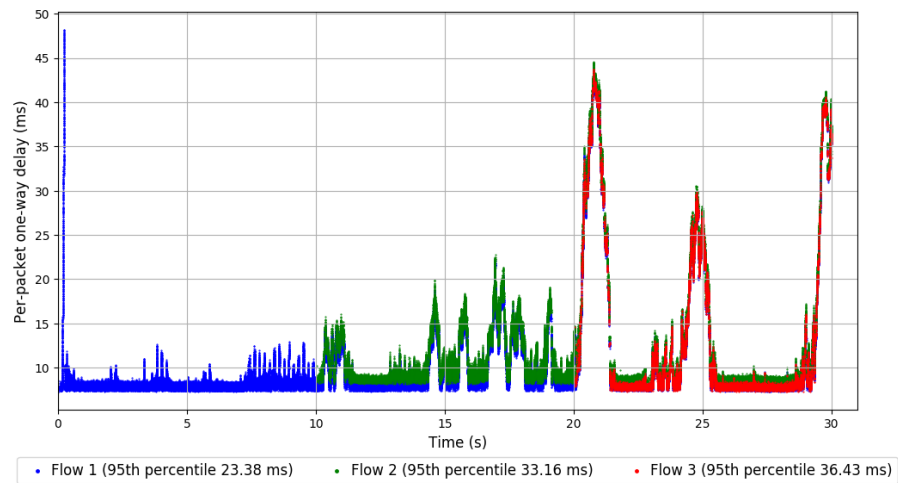
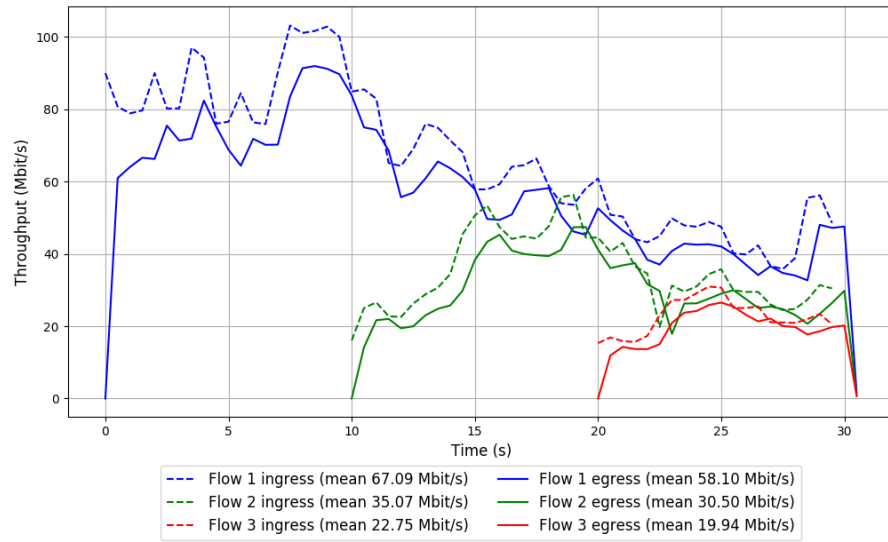
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	59.66	30.53	25.04	35.59	38.85	37.27	10.78	11.15	11.19
Copa	10	51.92	31.79	24.76	16.32	15.83	15.75	9.56	10.40	11.33
TCP Cubic	10	13.33	10.75	11.34	23.30	20.25	19.81	1.25	1.07	1.63
FillP	10	56.57	38.45	26.20	44.34	44.96	45.71	23.48	31.34	35.11
FillP-Sheep	10	55.02	40.69	32.71	42.93	45.66	46.66	18.06	25.39	31.51
Indigo	10	52.96	37.82	34.41	16.64	16.37	17.79	9.38	10.38	11.26
LEDBAT	10	16.24	12.13	10.27	9.26	10.79	9.50	1.01	1.22	2.07
PCC-Allegro	10	64.69	10.50	4.60	13.21	13.72	13.16	7.03	6.96	7.47
PCC-Expr	10	56.35	17.65	12.98	17.57	18.14	16.40	8.48	8.46	8.39
QUIC Cubic	10	15.99	14.31	13.22	12.19	11.24	13.10	2.66	3.04	2.67
SCReAM	10	0.15	0.16	0.18	9.14	9.10	10.79	1.06	1.04	1.15
Sprout	10	19.04	18.65	17.39	18.52	18.93	21.54	2.77	3.17	4.08
TaoVA-100x	10	54.17	37.12	34.96	36.53	40.04	44.09	10.76	13.87	17.74
TCP Vegas	10	14.46	11.11	11.37	12.66	13.39	17.05	1.26	1.50	1.66
Verus	10	38.55	31.83	16.13	43.08	57.19	40.99	36.60	52.21	44.24
PCC-Vivace	10	42.23	24.77	15.25	10.02	10.94	11.78	6.01	6.71	6.65
WebRTC media	10	2.37	1.54	0.44	11.30	11.51	11.83	0.79	0.63	0.64

Run 1: Statistics of TCP BBR

Start at: 2018-08-22 02:40:07  
End at: 2018-08-22 02:40:37  
Local clock offset: 1.145 ms  
Remote clock offset: -61.05 ms

# Below is generated by plot.py at 2018-08-22 05:45:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.06 Mbit/s  
95th percentile per-packet one-way delay: 28.568 ms  
Loss rate: 13.15%  
-- Flow 1:  
Average throughput: 58.10 Mbit/s  
95th percentile per-packet one-way delay: 23.379 ms  
Loss rate: 13.33%  
-- Flow 2:  
Average throughput: 30.50 Mbit/s  
95th percentile per-packet one-way delay: 33.155 ms  
Loss rate: 12.92%  
-- Flow 3:  
Average throughput: 19.94 Mbit/s  
95th percentile per-packet one-way delay: 36.428 ms  
Loss rate: 12.18%

# Run 1: Report of TCP BBR — Data Link

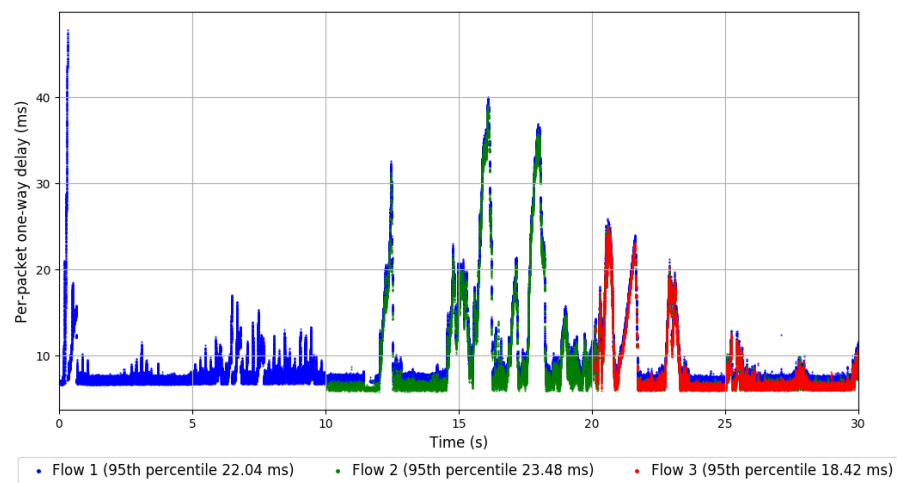
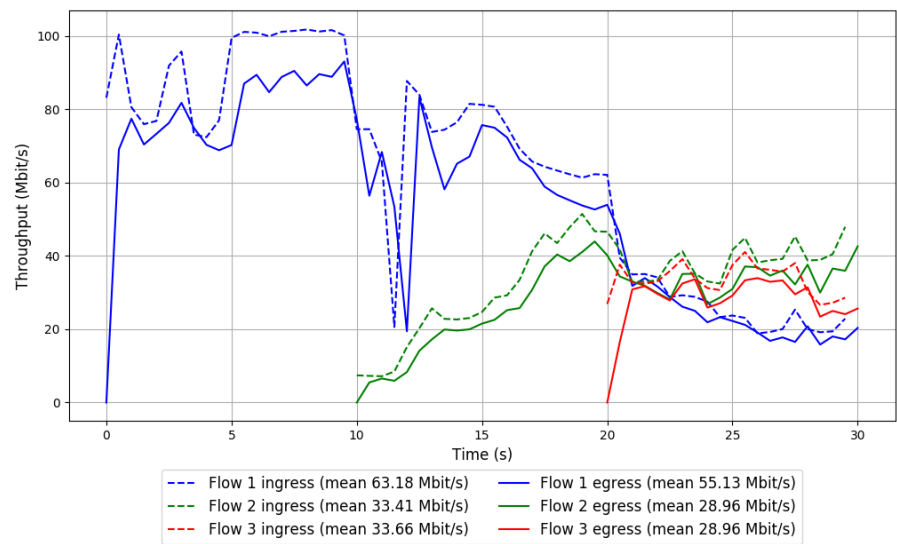


Run 2: Statistics of TCP BBR

Start at: 2018-08-22 02:59:38  
End at: 2018-08-22 03:00:08  
Local clock offset: 2.42 ms  
Remote clock offset: -60.485 ms

# Below is generated by plot.py at 2018-08-22 05:45:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.05 Mbit/s  
95th percentile per-packet one-way delay: 21.898 ms  
Loss rate: 13.00%  
-- Flow 1:  
Average throughput: 55.13 Mbit/s  
95th percentile per-packet one-way delay: 22.040 ms  
Loss rate: 12.73%  
-- Flow 2:  
Average throughput: 28.96 Mbit/s  
95th percentile per-packet one-way delay: 23.477 ms  
Loss rate: 13.29%  
-- Flow 3:  
Average throughput: 28.96 Mbit/s  
95th percentile per-packet one-way delay: 18.423 ms  
Loss rate: 13.95%

Run 2: Report of TCP BBR — Data Link

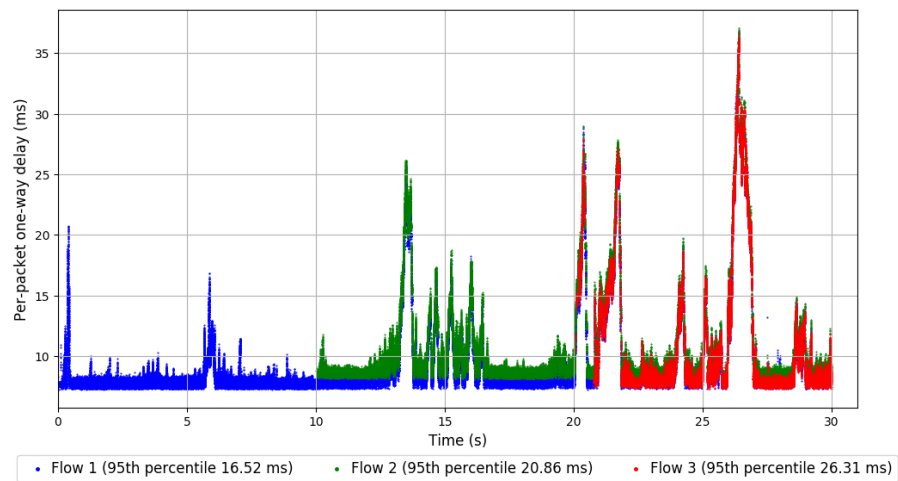
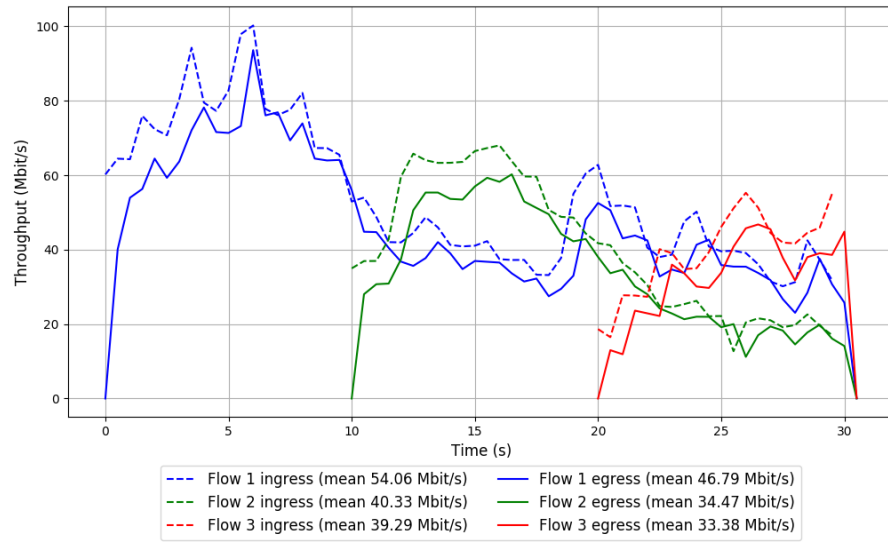


Run 3: Statistics of TCP BBR

Start at: 2018-08-22 03:19:10  
End at: 2018-08-22 03:19:40  
Local clock offset: -0.009 ms  
Remote clock offset: -62.846 ms

# Below is generated by plot.py at 2018-08-22 05:45:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.85 Mbit/s  
95th percentile per-packet one-way delay: 20.273 ms  
Loss rate: 13.98%  
-- Flow 1:  
Average throughput: 46.79 Mbit/s  
95th percentile per-packet one-way delay: 16.515 ms  
Loss rate: 13.45%  
-- Flow 2:  
Average throughput: 34.47 Mbit/s  
95th percentile per-packet one-way delay: 20.863 ms  
Loss rate: 14.53%  
-- Flow 3:  
Average throughput: 33.38 Mbit/s  
95th percentile per-packet one-way delay: 26.313 ms  
Loss rate: 15.03%

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



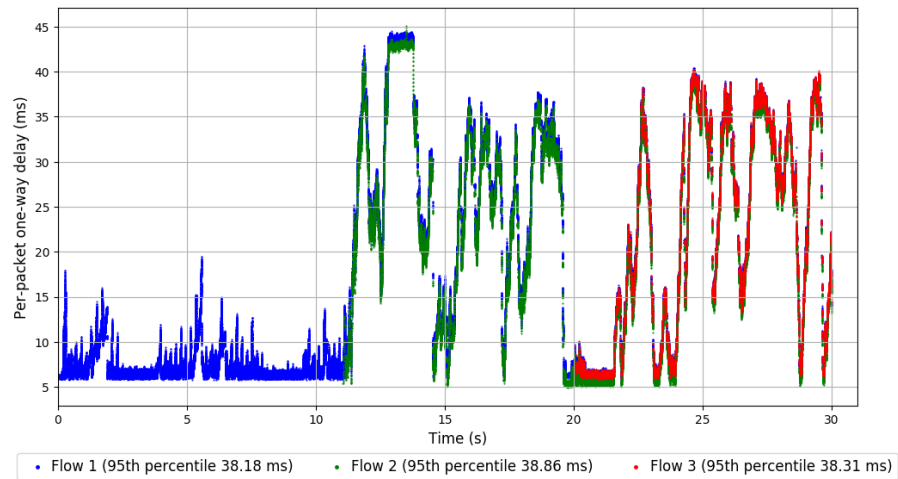
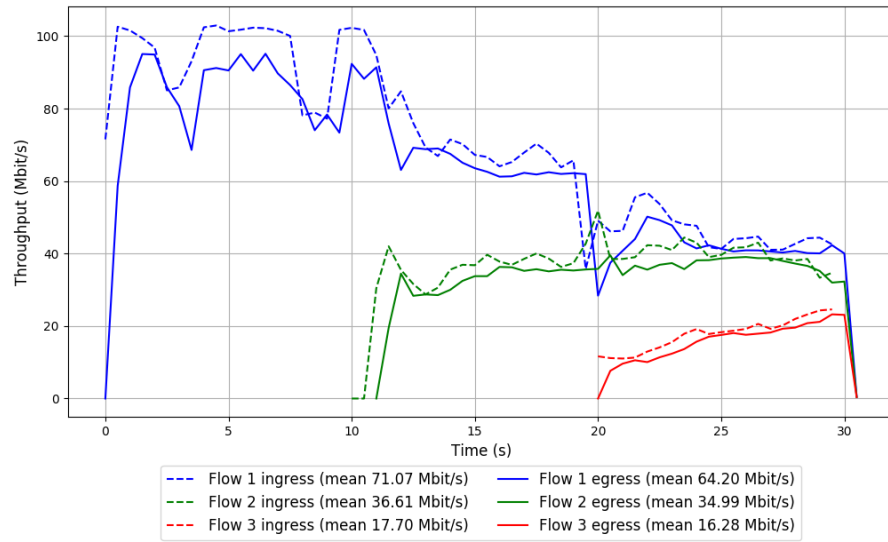
Run 4: Statistics of TCP BBR

Start at: 2018-08-22 03:38:49  
End at: 2018-08-22 03:39:19  
Local clock offset: 1.726 ms  
Remote clock offset: -63.081 ms

# Below is generated by plot.py at 2018-08-22 05:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.75 Mbit/s  
95th percentile per-packet one-way delay: 38.409 ms  
Loss rate: 9.44%  
-- Flow 1:  
Average throughput: 64.20 Mbit/s  
95th percentile per-packet one-way delay: 38.178 ms  
Loss rate: 9.64%  
-- Flow 2:  
Average throughput: 34.99 Mbit/s  
95th percentile per-packet one-way delay: 38.857 ms  
Loss rate: 9.23%  
-- Flow 3:  
Average throughput: 16.28 Mbit/s  
95th percentile per-packet one-way delay: 38.308 ms  
Loss rate: 7.95%



# Run 4: Report of TCP BBR — Data Link

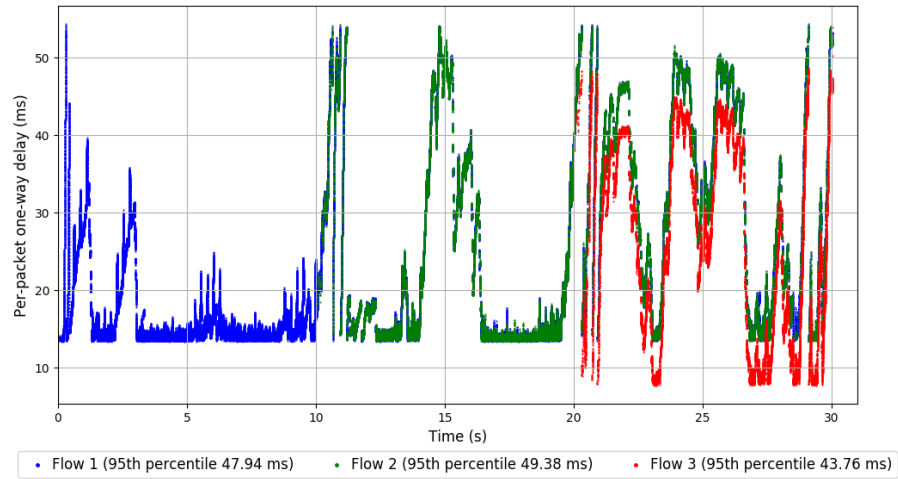
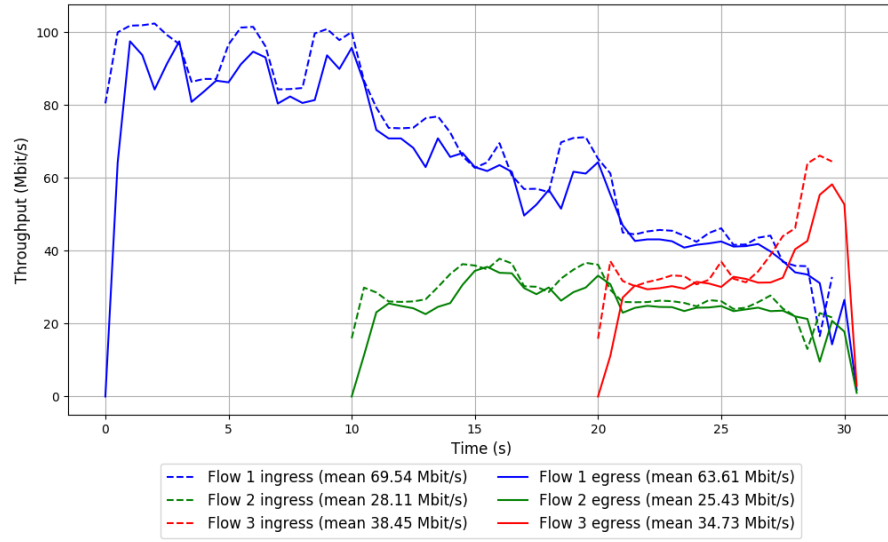


Run 5: Statistics of TCP BBR

Start at: 2018-08-22 03:58:40  
End at: 2018-08-22 03:59:10  
Local clock offset: 2.365 ms  
Remote clock offset: -62.136 ms

# Below is generated by plot.py at 2018-08-22 05:46:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.10 Mbit/s  
95th percentile per-packet one-way delay: 48.022 ms  
Loss rate: 8.75%  
-- Flow 1:  
Average throughput: 63.61 Mbit/s  
95th percentile per-packet one-way delay: 47.938 ms  
Loss rate: 8.43%  
-- Flow 2:  
Average throughput: 25.43 Mbit/s  
95th percentile per-packet one-way delay: 49.377 ms  
Loss rate: 9.39%  
-- Flow 3:  
Average throughput: 34.73 Mbit/s  
95th percentile per-packet one-way delay: 43.761 ms  
Loss rate: 9.56%

# Run 5: Report of TCP BBR — Data Link

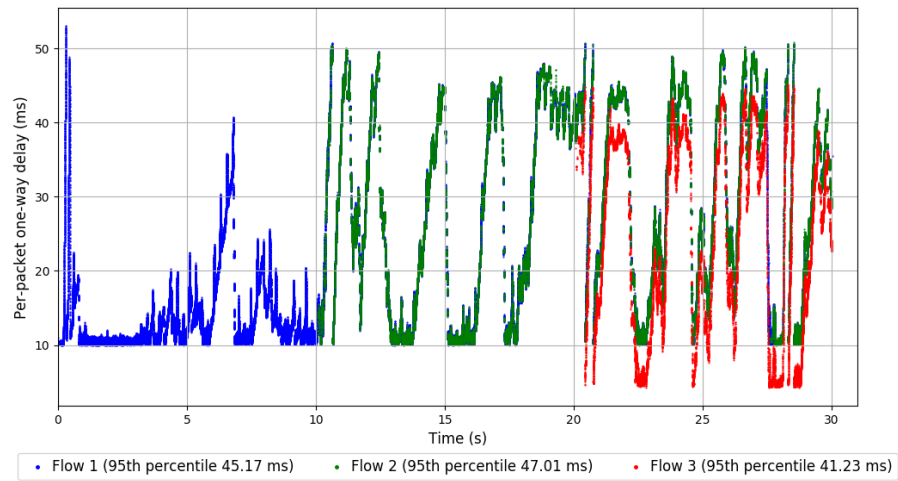
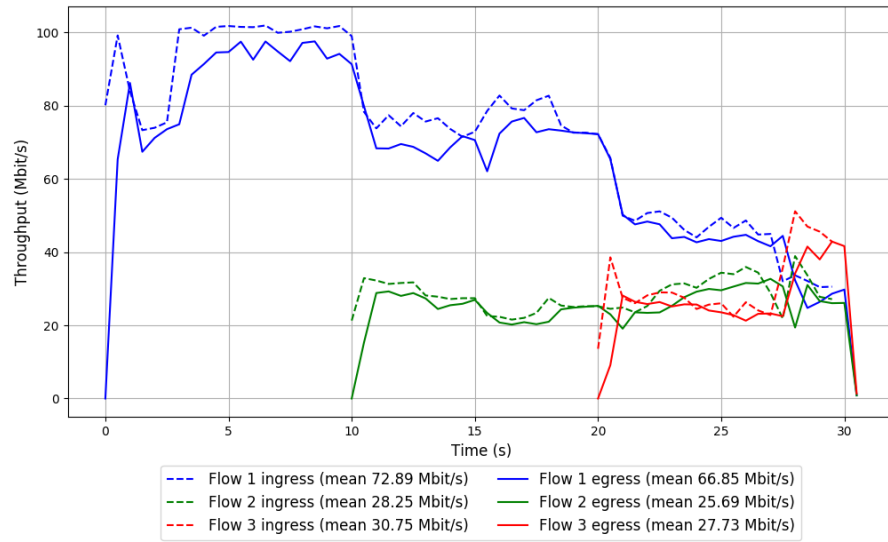


Run 6: Statistics of TCP BBR

Start at: 2018-08-22 04:18:10  
End at: 2018-08-22 04:18:40  
Local clock offset: 0.633 ms  
Remote clock offset: -68.034 ms

# Below is generated by plot.py at 2018-08-22 05:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.17 Mbit/s  
95th percentile per-packet one-way delay: 45.555 ms  
Loss rate: 8.54%  
-- Flow 1:  
Average throughput: 66.85 Mbit/s  
95th percentile per-packet one-way delay: 45.168 ms  
Loss rate: 8.23%  
-- Flow 2:  
Average throughput: 25.69 Mbit/s  
95th percentile per-packet one-way delay: 47.012 ms  
Loss rate: 8.99%  
-- Flow 3:  
Average throughput: 27.73 Mbit/s  
95th percentile per-packet one-way delay: 41.233 ms  
Loss rate: 9.92%

# Run 6: Report of TCP BBR — Data Link

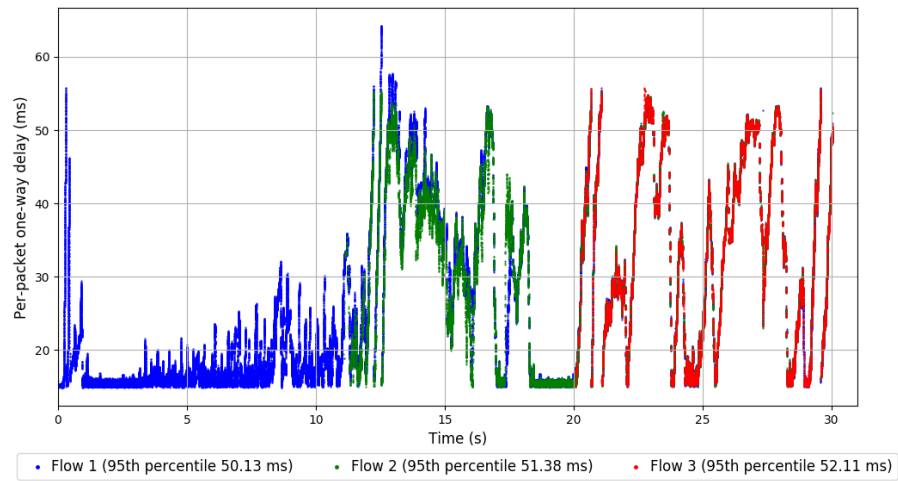
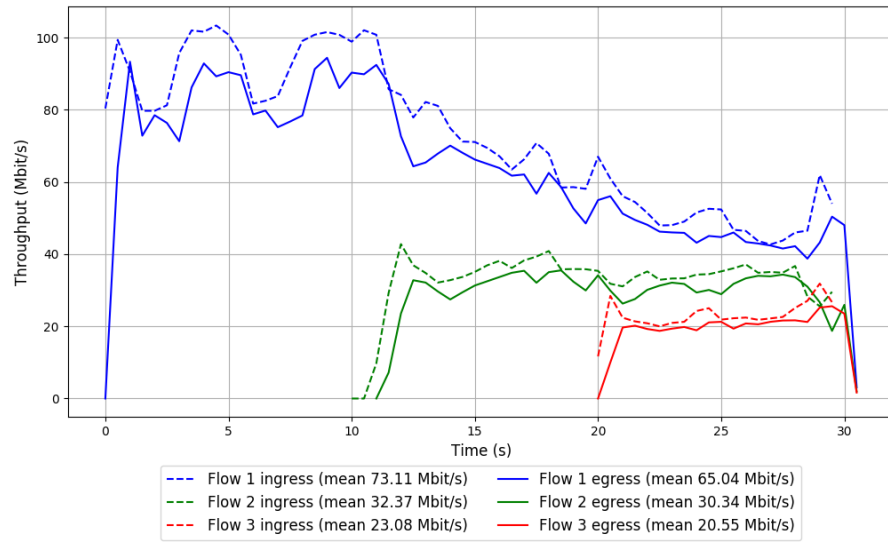


Run 7: Statistics of TCP BBR

Start at: 2018-08-22 04:37:47  
End at: 2018-08-22 04:38:17  
Local clock offset: 0.04 ms  
Remote clock offset: -64.618 ms

# Below is generated by plot.py at 2018-08-22 05:46:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.06 Mbit/s  
95th percentile per-packet one-way delay: 50.758 ms  
Loss rate: 10.93%  
-- Flow 1:  
Average throughput: 65.04 Mbit/s  
95th percentile per-packet one-way delay: 50.134 ms  
Loss rate: 10.95%  
-- Flow 2:  
Average throughput: 30.34 Mbit/s  
95th percentile per-packet one-way delay: 51.380 ms  
Loss rate: 10.93%  
-- Flow 3:  
Average throughput: 20.55 Mbit/s  
95th percentile per-packet one-way delay: 52.112 ms  
Loss rate: 10.72%

# Run 7: Report of TCP BBR — Data Link



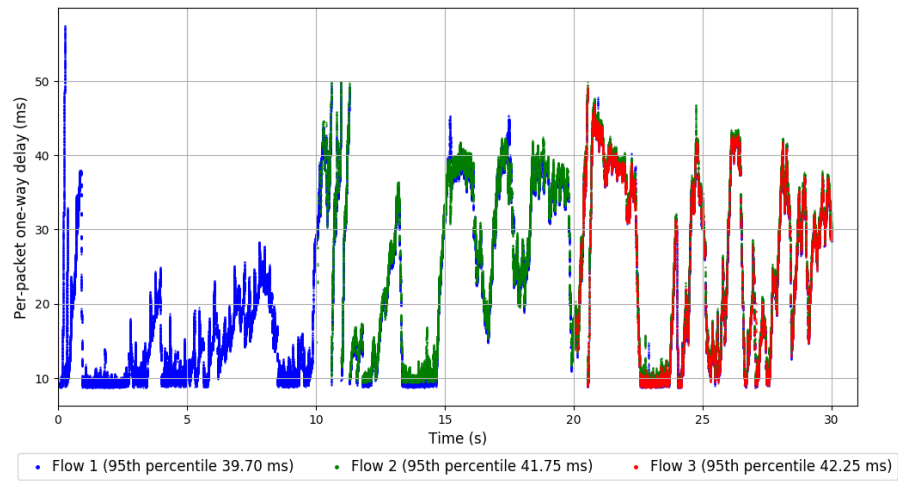
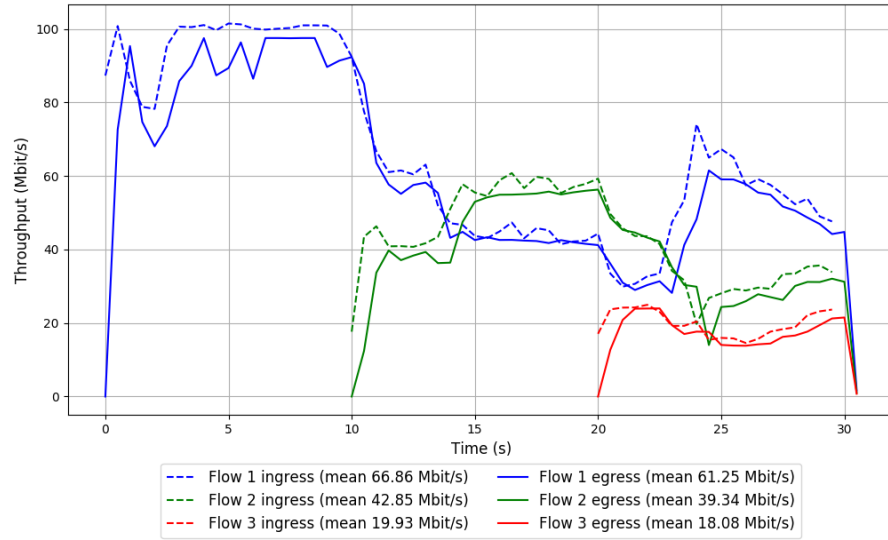
Run 8: Statistics of TCP BBR

Start at: 2018-08-22 04:57:17  
End at: 2018-08-22 04:57:47  
Local clock offset: 0.427 ms  
Remote clock offset: -63.332 ms

# Below is generated by plot.py at 2018-08-22 05:46:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.47 Mbit/s  
95th percentile per-packet one-way delay: 40.764 ms  
Loss rate: 8.33%  
-- Flow 1:  
Average throughput: 61.25 Mbit/s  
95th percentile per-packet one-way delay: 39.695 ms  
Loss rate: 8.33%  
-- Flow 2:  
Average throughput: 39.34 Mbit/s  
95th percentile per-packet one-way delay: 41.748 ms  
Loss rate: 8.13%  
-- Flow 3:  
Average throughput: 18.08 Mbit/s  
95th percentile per-packet one-way delay: 42.249 ms  
Loss rate: 9.18%



# Run 8: Report of TCP BBR — Data Link

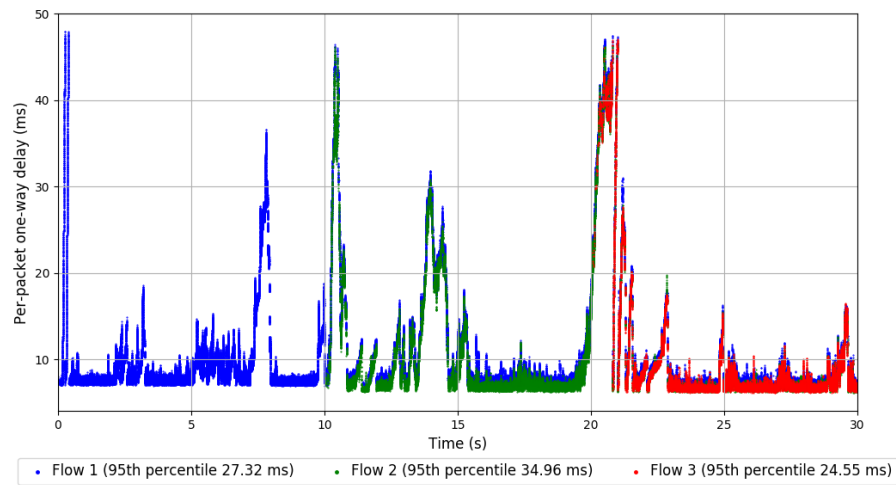
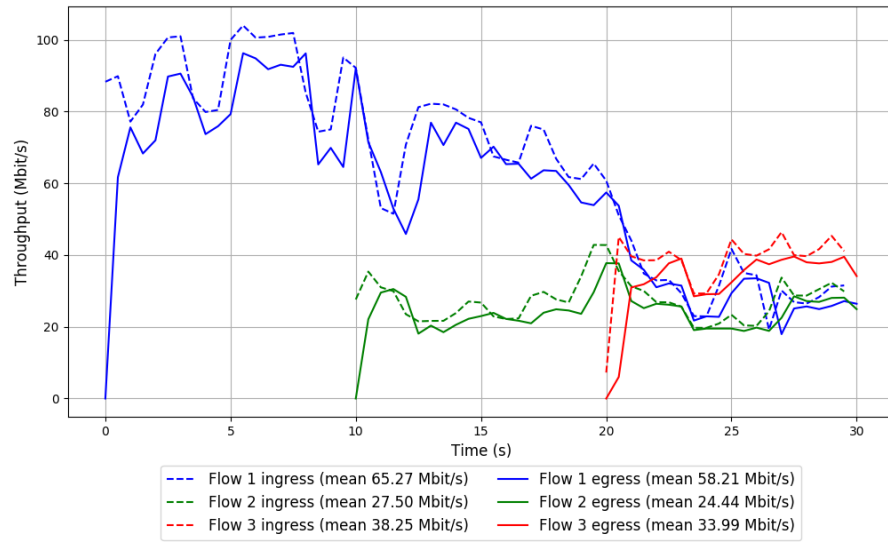


Run 9: Statistics of TCP BBR

Start at: 2018-08-22 05:16:57  
End at: 2018-08-22 05:17:27  
Local clock offset: 1.52 ms  
Remote clock offset: -63.176 ms

# Below is generated by plot.py at 2018-08-22 05:46:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.76 Mbit/s  
95th percentile per-packet one-way delay: 27.817 ms  
Loss rate: 10.94%  
-- Flow 1:  
Average throughput: 58.21 Mbit/s  
95th percentile per-packet one-way delay: 27.316 ms  
Loss rate: 10.82%  
-- Flow 2:  
Average throughput: 24.44 Mbit/s  
95th percentile per-packet one-way delay: 34.957 ms  
Loss rate: 11.16%  
-- Flow 3:  
Average throughput: 33.99 Mbit/s  
95th percentile per-packet one-way delay: 24.549 ms  
Loss rate: 11.27%

# Run 9: Report of TCP BBR — Data Link

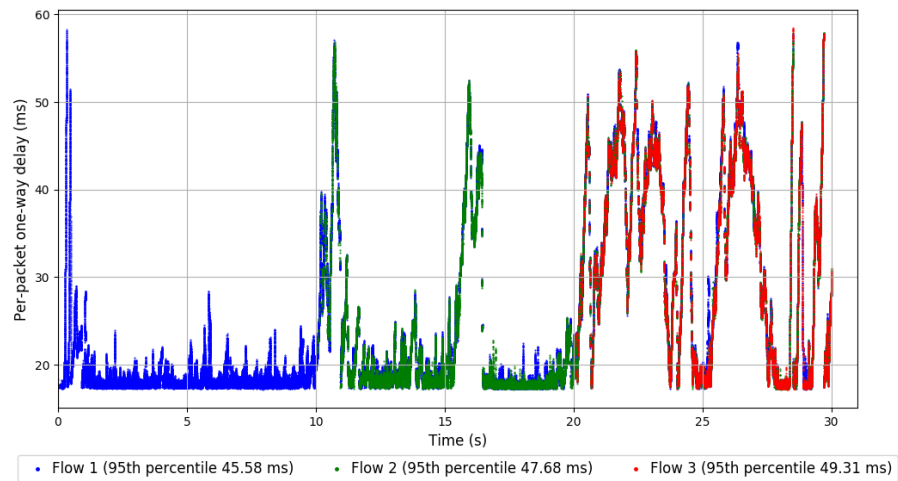
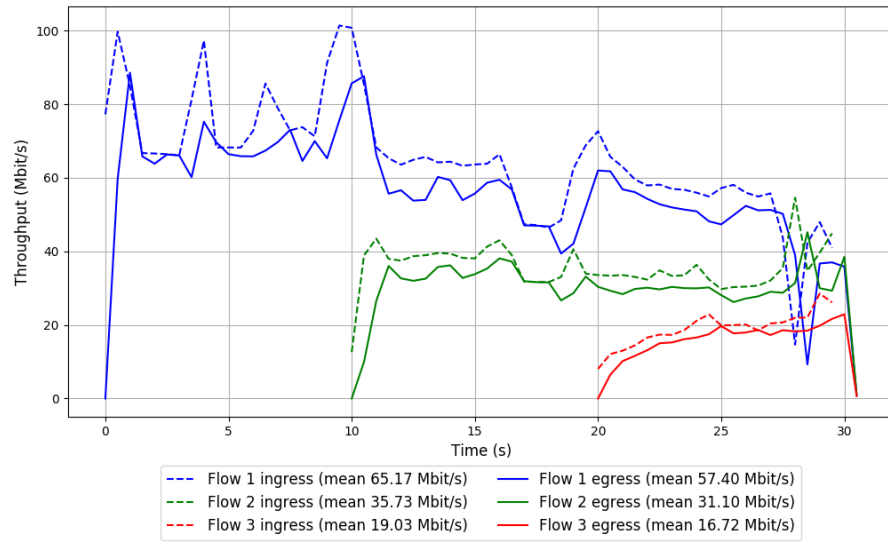


Run 10: Statistics of TCP BBR

Start at: 2018-08-22 05:36:37  
End at: 2018-08-22 05:37:07  
Local clock offset: -0.183 ms  
Remote clock offset: -59.49 ms

# Below is generated by plot.py at 2018-08-22 05:46:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.68 Mbit/s  
95th percentile per-packet one-way delay: 46.748 ms  
Loss rate: 12.18%  
-- Flow 1:  
Average throughput: 57.40 Mbit/s  
95th percentile per-packet one-way delay: 45.579 ms  
Loss rate: 11.91%  
-- Flow 2:  
Average throughput: 31.10 Mbit/s  
95th percentile per-packet one-way delay: 47.681 ms  
Loss rate: 12.95%  
-- Flow 3:  
Average throughput: 16.72 Mbit/s  
95th percentile per-packet one-way delay: 49.314 ms  
Loss rate: 12.16%

# Run 10: Report of TCP BBR — Data Link

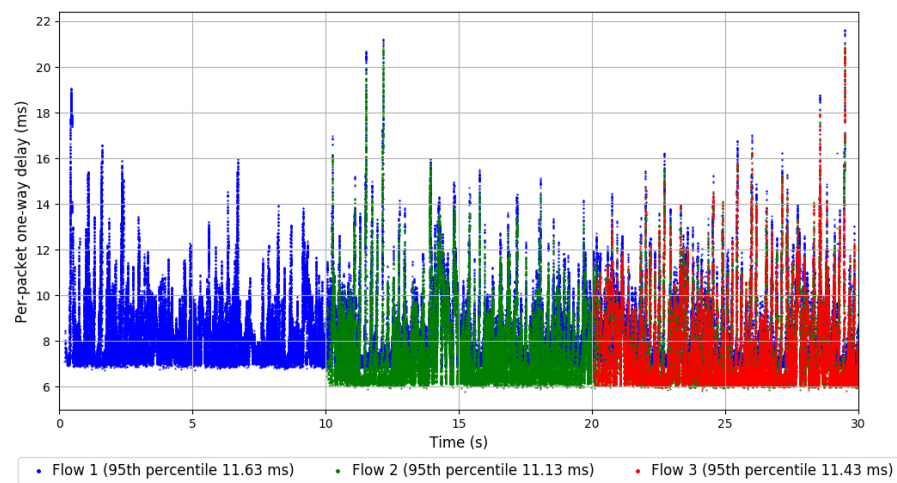
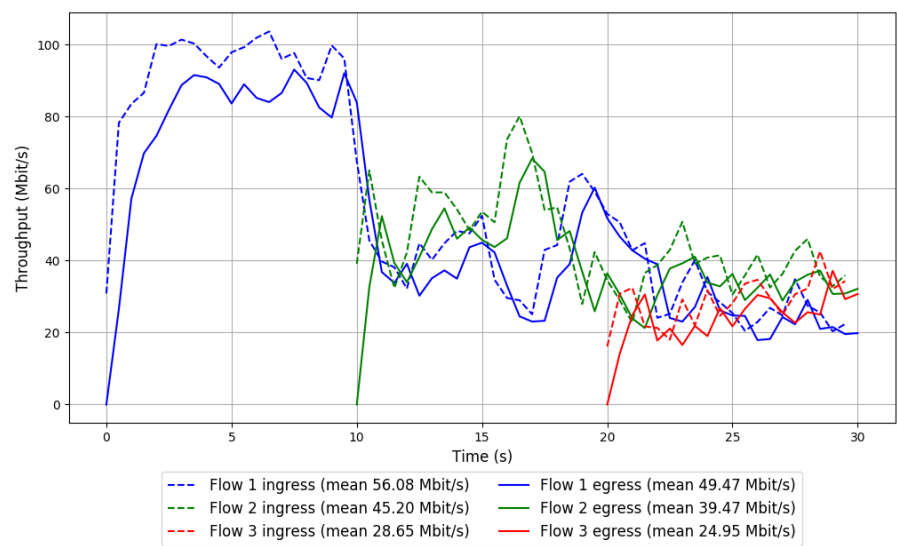


Run 1: Statistics of Copa

Start at: 2018-08-22 02:38:55  
End at: 2018-08-22 02:39:25  
Local clock offset: 3.503 ms  
Remote clock offset: -60.217 ms

# Below is generated by plot.py at 2018-08-22 05:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.29 Mbit/s  
95th percentile per-packet one-way delay: 11.481 ms  
Loss rate: 12.52%  
-- Flow 1:  
Average throughput: 49.47 Mbit/s  
95th percentile per-packet one-way delay: 11.626 ms  
Loss rate: 12.37%  
-- Flow 2:  
Average throughput: 39.47 Mbit/s  
95th percentile per-packet one-way delay: 11.133 ms  
Loss rate: 12.68%  
-- Flow 3:  
Average throughput: 24.95 Mbit/s  
95th percentile per-packet one-way delay: 11.428 ms  
Loss rate: 12.96%

Run 1: Report of Copa — Data Link



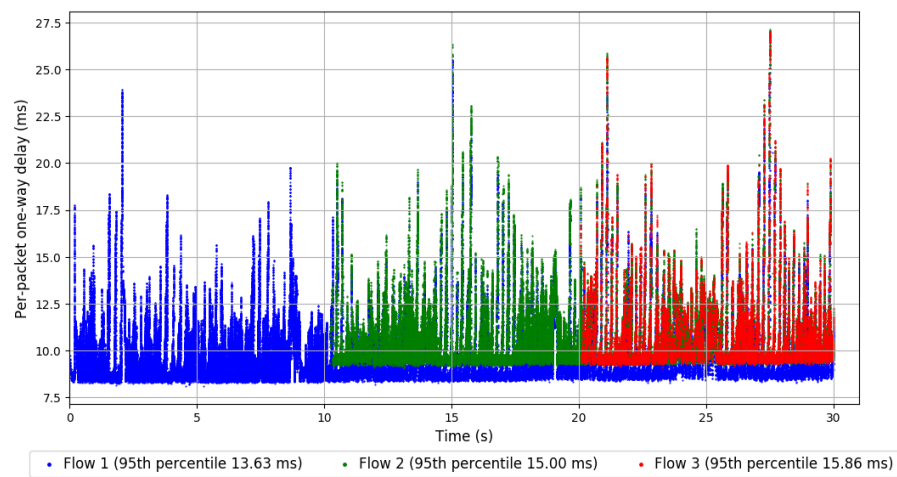
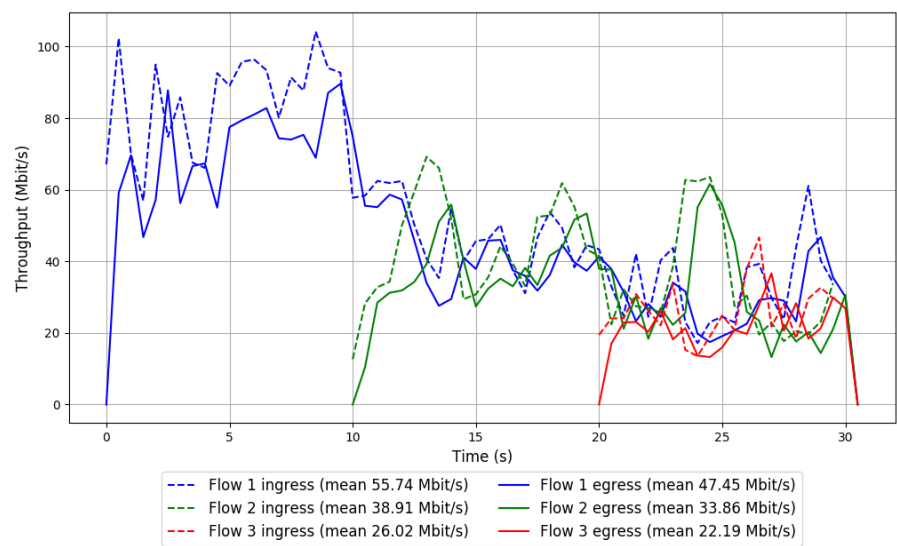
Run 2: Statistics of Copa

Start at: 2018-08-22 02:58:26  
End at: 2018-08-22 02:58:56  
Local clock offset: -0.017 ms  
Remote clock offset: -60.065 ms

# Below is generated by plot.py at 2018-08-22 05:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.15 Mbit/s  
95th percentile per-packet one-way delay: 14.327 ms  
Loss rate: 14.57%  
-- Flow 1:  
Average throughput: 47.45 Mbit/s  
95th percentile per-packet one-way delay: 13.628 ms  
Loss rate: 14.88%  
-- Flow 2:  
Average throughput: 33.86 Mbit/s  
95th percentile per-packet one-way delay: 15.000 ms  
Loss rate: 13.84%  
-- Flow 3:  
Average throughput: 22.19 Mbit/s  
95th percentile per-packet one-way delay: 15.856 ms  
Loss rate: 14.73%



Run 2: Report of Copa — Data Link

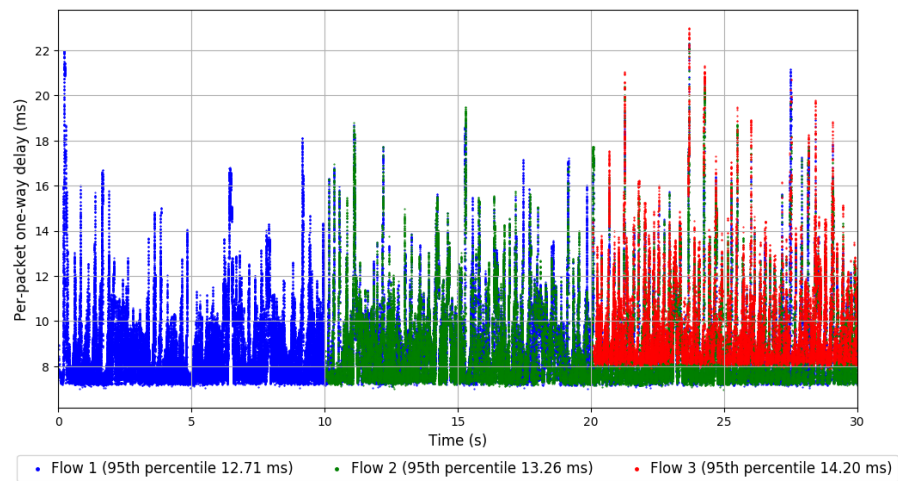
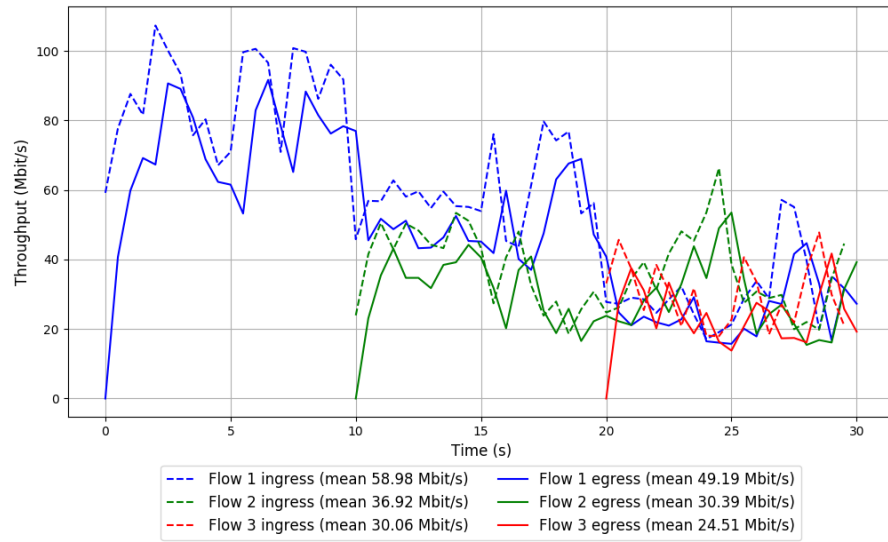


Run 3: Statistics of Copa

Start at: 2018-08-22 03:17:57  
End at: 2018-08-22 03:18:27  
Local clock offset: -0.38 ms  
Remote clock offset: -63.375 ms

# Below is generated by plot.py at 2018-08-22 05:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.58 Mbit/s  
95th percentile per-packet one-way delay: 13.054 ms  
Loss rate: 17.09%  
-- Flow 1:  
Average throughput: 49.19 Mbit/s  
95th percentile per-packet one-way delay: 12.712 ms  
Loss rate: 16.60%  
-- Flow 2:  
Average throughput: 30.39 Mbit/s  
95th percentile per-packet one-way delay: 13.260 ms  
Loss rate: 17.70%  
-- Flow 3:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 14.197 ms  
Loss rate: 18.47%

### Run 3: Report of Copa — Data Link

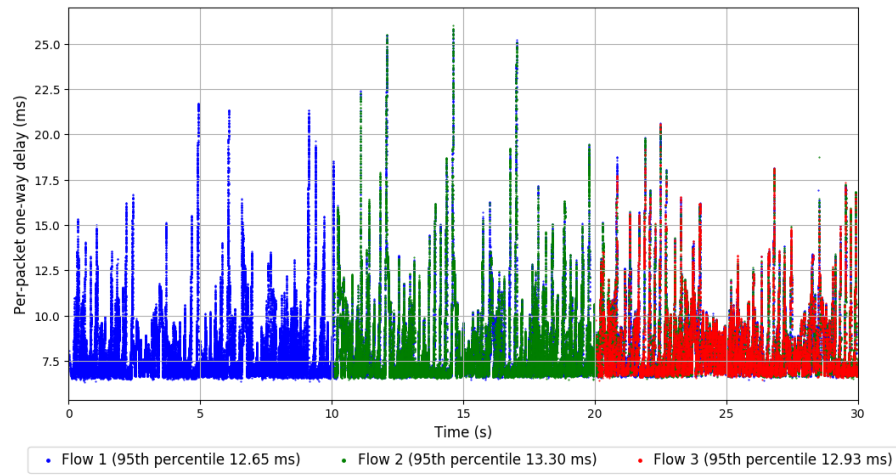
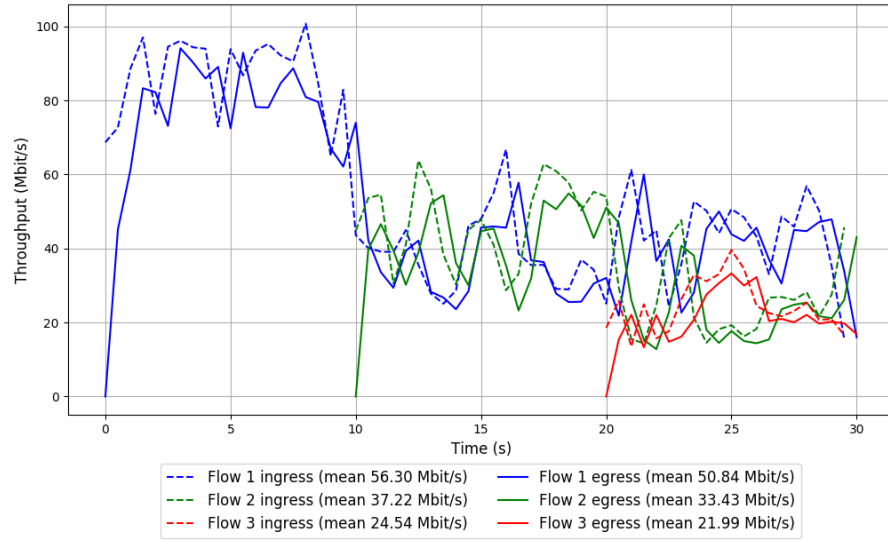


Run 4: Statistics of Copa

Start at: 2018-08-22 03:37:37  
End at: 2018-08-22 03:38:07  
Local clock offset: 0.887 ms  
Remote clock offset: -63.009 ms

# Below is generated by plot.py at 2018-08-22 05:47:47  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.42 Mbit/s  
95th percentile per-packet one-way delay: 12.871 ms  
Loss rate: 9.90%  
-- Flow 1:  
Average throughput: 50.84 Mbit/s  
95th percentile per-packet one-way delay: 12.647 ms  
Loss rate: 9.70%  
-- Flow 2:  
Average throughput: 33.43 Mbit/s  
95th percentile per-packet one-way delay: 13.297 ms  
Loss rate: 10.19%  
-- Flow 3:  
Average throughput: 21.99 Mbit/s  
95th percentile per-packet one-way delay: 12.931 ms  
Loss rate: 10.40%

# Run 4: Report of Copa — Data Link

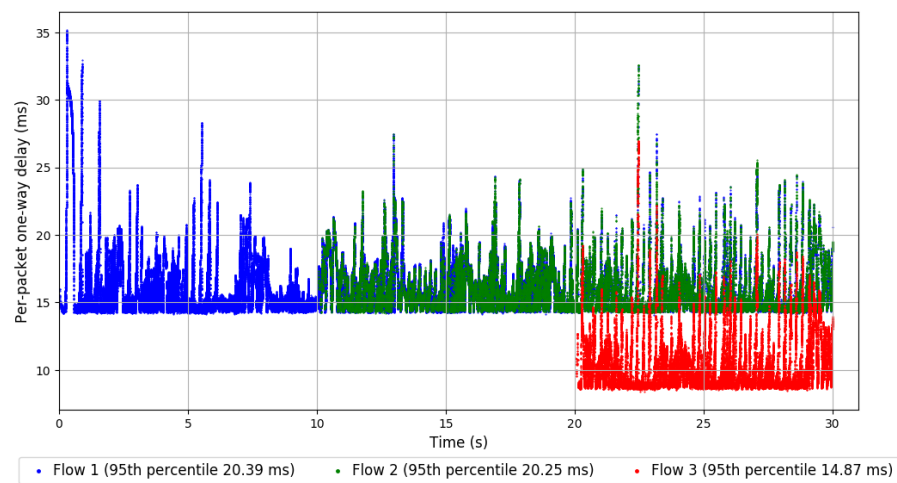
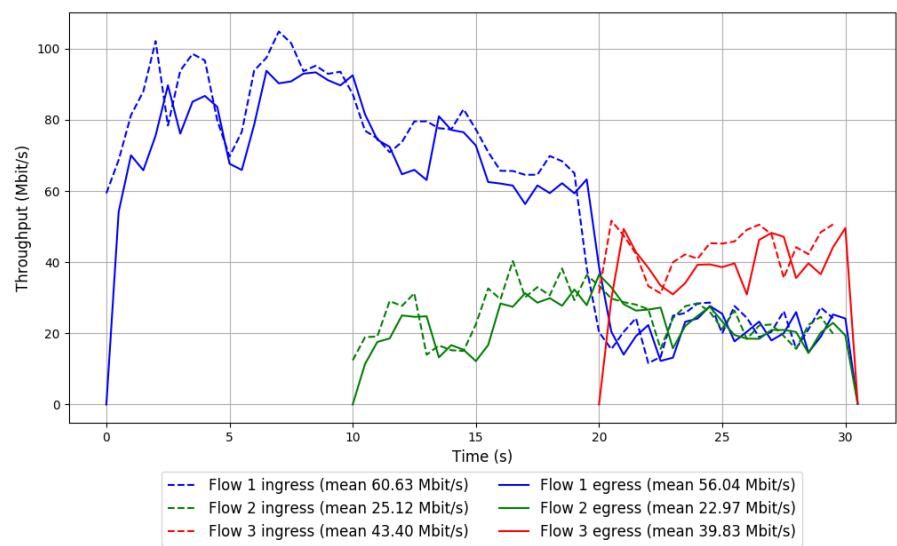


Run 5: Statistics of Copa

Start at: 2018-08-22 03:57:27  
End at: 2018-08-22 03:57:57  
Local clock offset: 1.696 ms  
Remote clock offset: -61.871 ms

# Below is generated by plot.py at 2018-08-22 05:47:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.58 Mbit/s  
95th percentile per-packet one-way delay: 19.996 ms  
Loss rate: 7.85%  
-- Flow 1:  
Average throughput: 56.04 Mbit/s  
95th percentile per-packet one-way delay: 20.394 ms  
Loss rate: 7.57%  
-- Flow 2:  
Average throughput: 22.97 Mbit/s  
95th percentile per-packet one-way delay: 20.247 ms  
Loss rate: 8.58%  
-- Flow 3:  
Average throughput: 39.83 Mbit/s  
95th percentile per-packet one-way delay: 14.868 ms  
Loss rate: 8.20%

Run 5: Report of Copa — Data Link



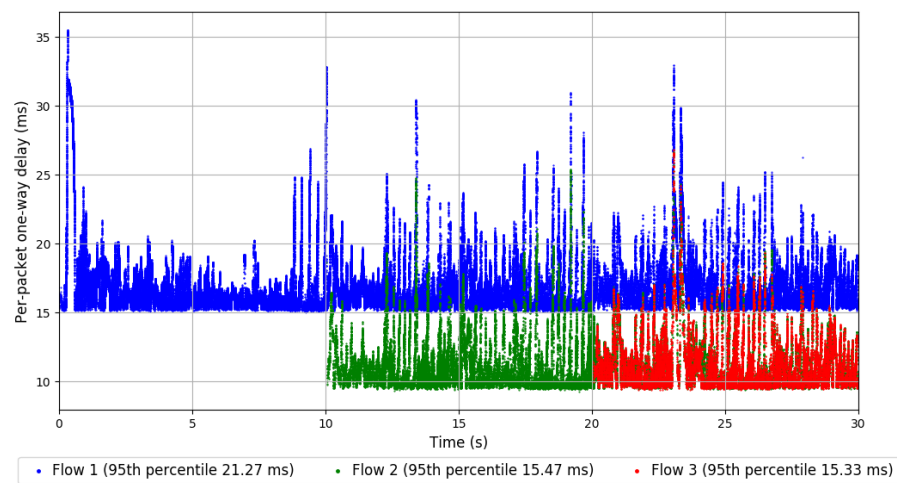
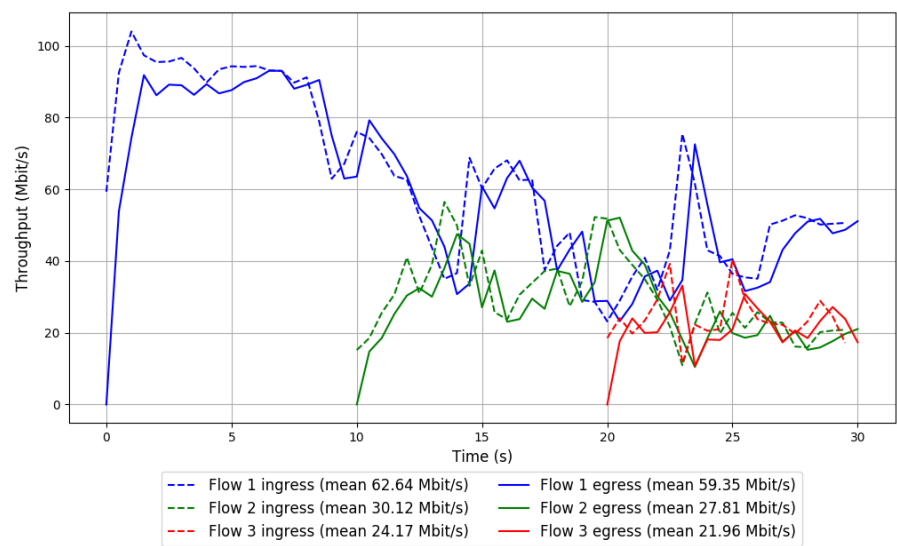
Run 6: Statistics of Copa

Start at: 2018-08-22 04:16:58  
End at: 2018-08-22 04:17:28  
Local clock offset: 0.396 ms  
Remote clock offset: -63.058 ms

# Below is generated by plot.py at 2018-08-22 05:47:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.17 Mbit/s  
95th percentile per-packet one-way delay: 20.247 ms  
Loss rate: 6.15%  
-- Flow 1:  
Average throughput: 59.35 Mbit/s  
95th percentile per-packet one-way delay: 21.270 ms  
Loss rate: 5.26%  
-- Flow 2:  
Average throughput: 27.81 Mbit/s  
95th percentile per-packet one-way delay: 15.474 ms  
Loss rate: 7.71%  
-- Flow 3:  
Average throughput: 21.96 Mbit/s  
95th percentile per-packet one-way delay: 15.328 ms  
Loss rate: 9.18%



Run 6: Report of Copa — Data Link

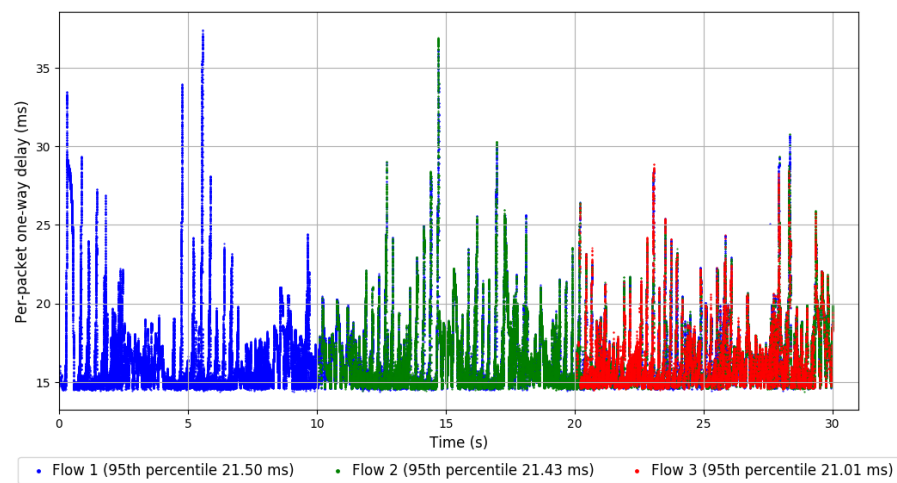
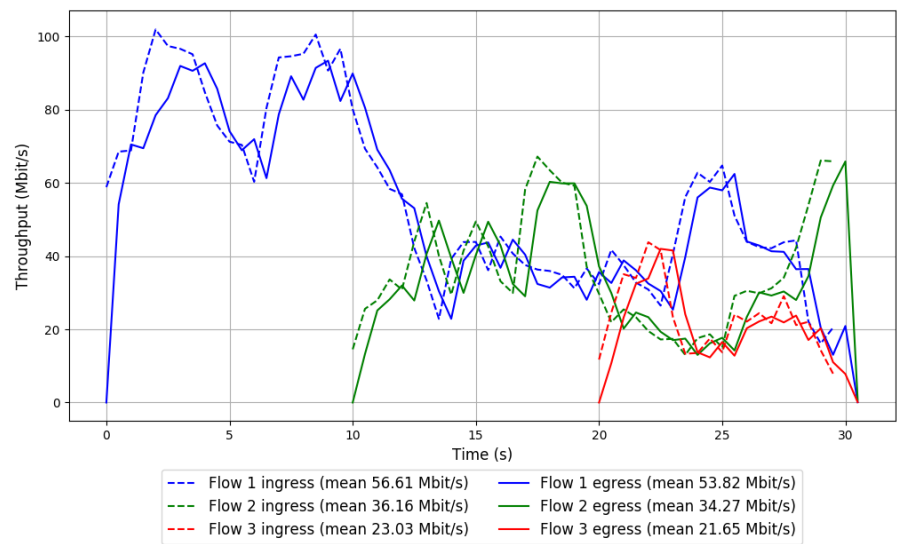


Run 7: Statistics of Copa

Start at: 2018-08-22 04:36:35  
End at: 2018-08-22 04:37:05  
Local clock offset: 0.354 ms  
Remote clock offset: -64.512 ms

# Below is generated by plot.py at 2018-08-22 05:48:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.83 Mbit/s  
95th percentile per-packet one-way delay: 21.434 ms  
Loss rate: 5.12%  
-- Flow 1:  
Average throughput: 53.82 Mbit/s  
95th percentile per-packet one-way delay: 21.502 ms  
Loss rate: 4.94%  
-- Flow 2:  
Average throughput: 34.27 Mbit/s  
95th percentile per-packet one-way delay: 21.429 ms  
Loss rate: 5.25%  
-- Flow 3:  
Average throughput: 21.65 Mbit/s  
95th percentile per-packet one-way delay: 21.010 ms  
Loss rate: 6.03%

Run 7: Report of Copa — Data Link

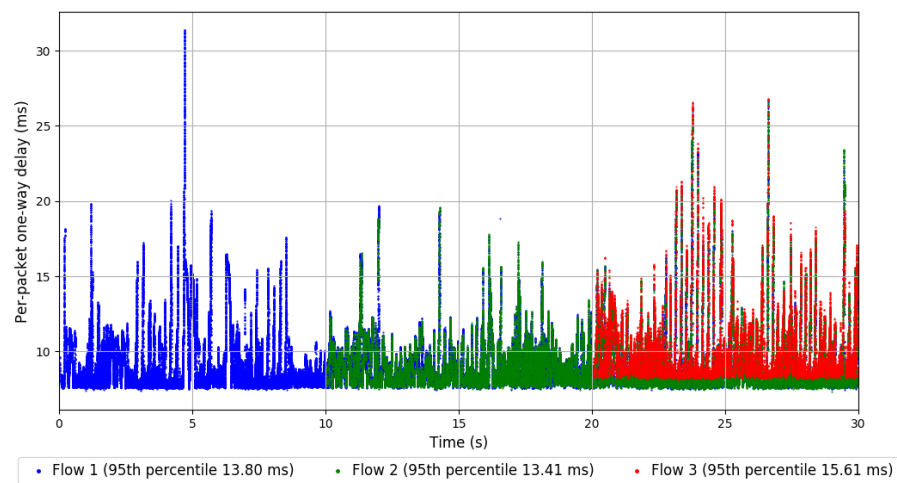
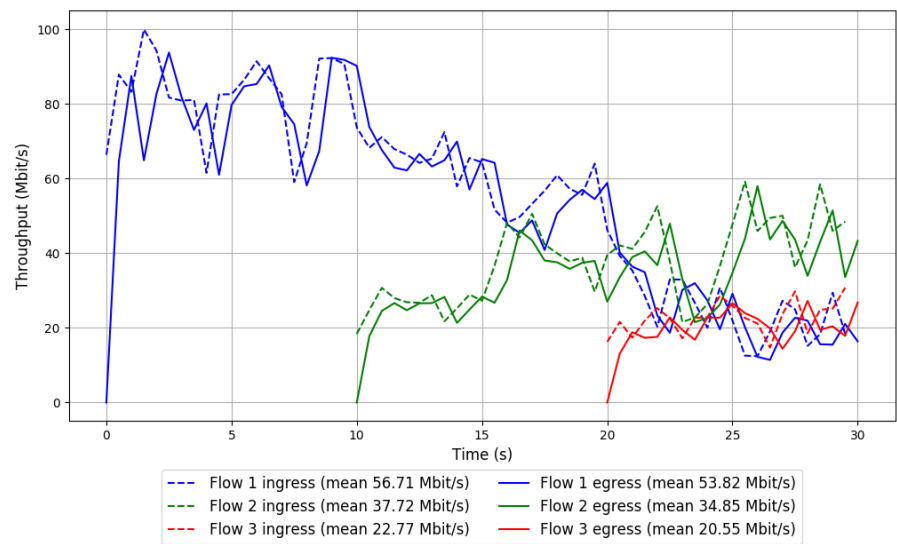


Run 8: Statistics of Copa

Start at: 2018-08-22 04:56:03  
End at: 2018-08-22 04:56:33  
Local clock offset: 2.671 ms  
Remote clock offset: -62.315 ms

# Below is generated by plot.py at 2018-08-22 05:48:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.86 Mbit/s  
95th percentile per-packet one-way delay: 13.923 ms  
Loss rate: 6.20%  
-- Flow 1:  
Average throughput: 53.82 Mbit/s  
95th percentile per-packet one-way delay: 13.801 ms  
Loss rate: 5.10%  
-- Flow 2:  
Average throughput: 34.85 Mbit/s  
95th percentile per-packet one-way delay: 13.414 ms  
Loss rate: 7.62%  
-- Flow 3:  
Average throughput: 20.55 Mbit/s  
95th percentile per-packet one-way delay: 15.613 ms  
Loss rate: 9.72%

Run 8: Report of Copa — Data Link

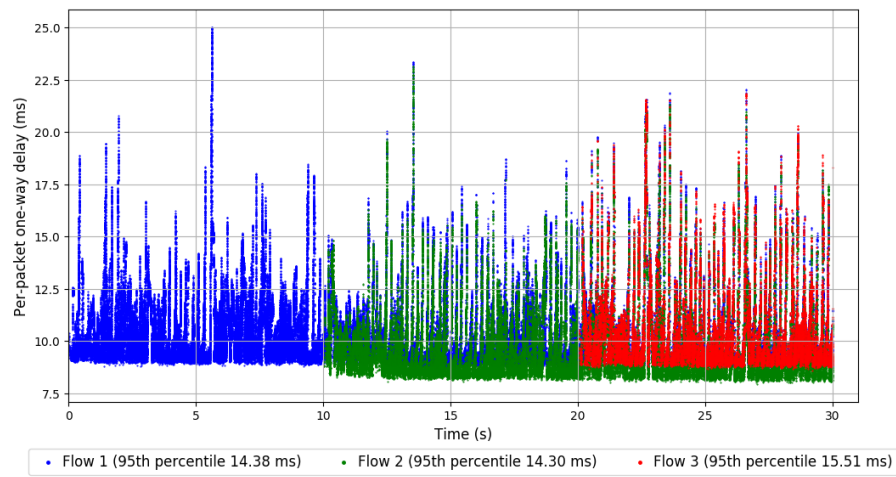
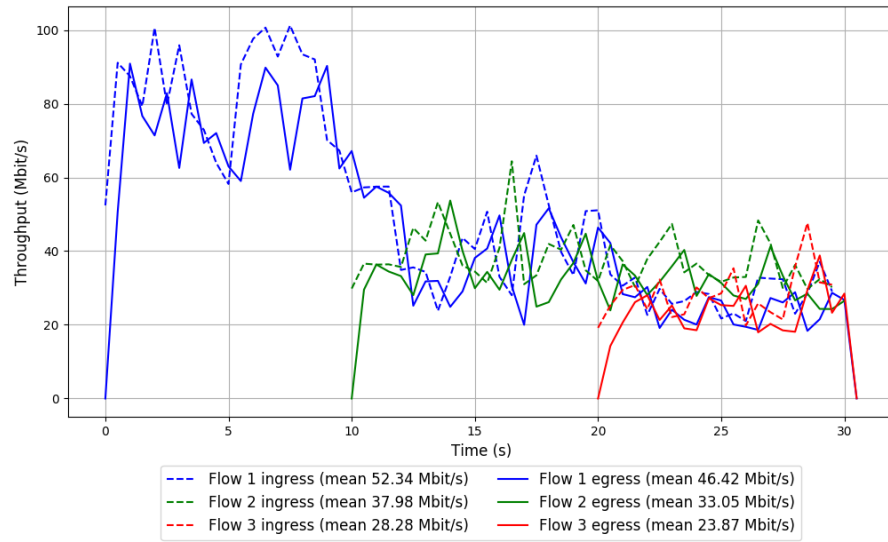


Run 9: Statistics of Copa

Start at: 2018-08-22 05:15:44  
End at: 2018-08-22 05:16:14  
Local clock offset: -0.129 ms  
Remote clock offset: -63.503 ms

# Below is generated by plot.py at 2018-08-22 05:49:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.36 Mbit/s  
95th percentile per-packet one-way delay: 14.472 ms  
Loss rate: 12.25%  
-- Flow 1:  
Average throughput: 46.42 Mbit/s  
95th percentile per-packet one-way delay: 14.379 ms  
Loss rate: 11.31%  
-- Flow 2:  
Average throughput: 33.05 Mbit/s  
95th percentile per-packet one-way delay: 14.303 ms  
Loss rate: 12.99%  
-- Flow 3:  
Average throughput: 23.87 Mbit/s  
95th percentile per-packet one-way delay: 15.514 ms  
Loss rate: 15.52%

## Run 9: Report of Copa — Data Link



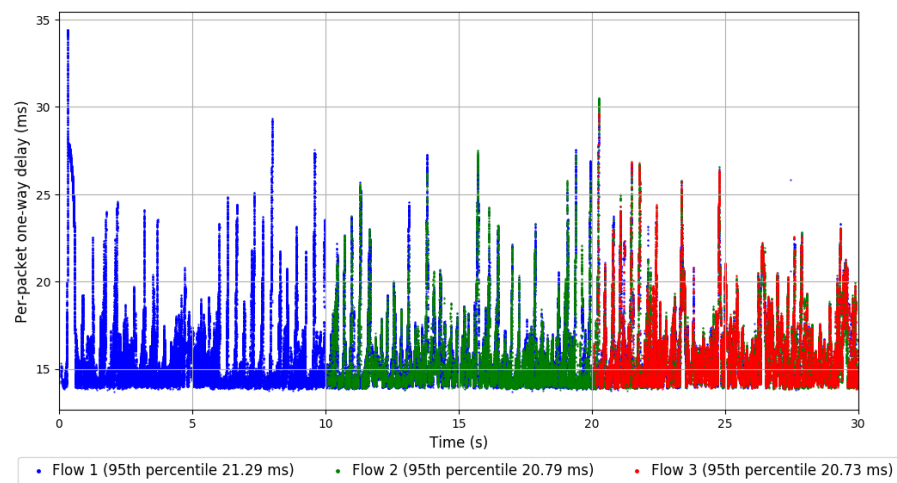
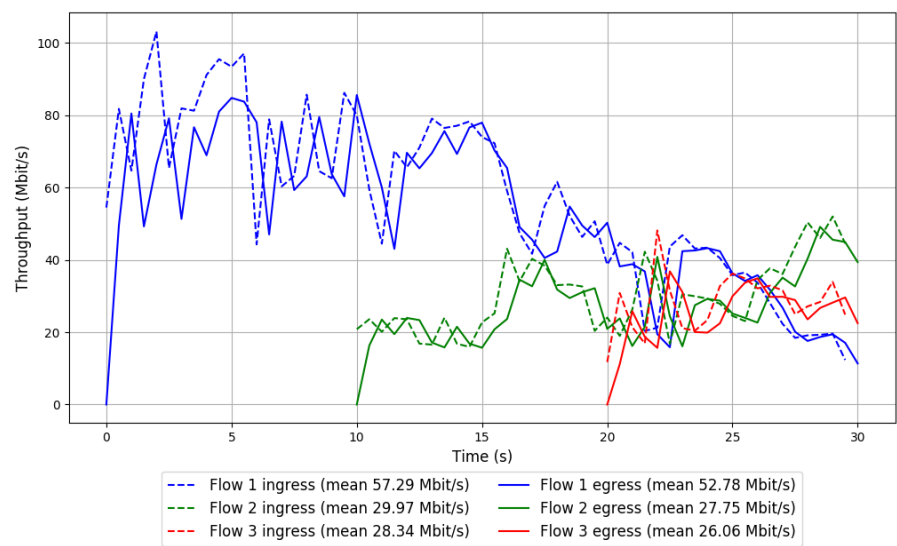
Run 10: Statistics of Copa

Start at: 2018-08-22 05:35:23  
End at: 2018-08-22 05:35:53  
Local clock offset: 2.516 ms  
Remote clock offset: -60.274 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.92 Mbit/s  
95th percentile per-packet one-way delay: 21.078 ms  
Loss rate: 7.82%  
-- Flow 1:  
Average throughput: 52.78 Mbit/s  
95th percentile per-packet one-way delay: 21.286 ms  
Loss rate: 7.90%  
-- Flow 2:  
Average throughput: 27.75 Mbit/s  
95th percentile per-packet one-way delay: 20.786 ms  
Loss rate: 7.44%  
-- Flow 3:  
Average throughput: 26.06 Mbit/s  
95th percentile per-packet one-way delay: 20.735 ms  
Loss rate: 8.12%



Run 10: Report of Copa — Data Link

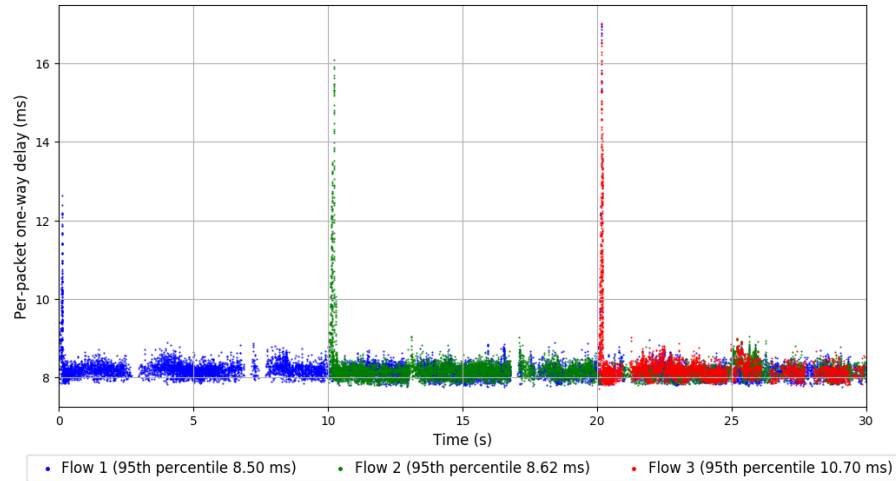
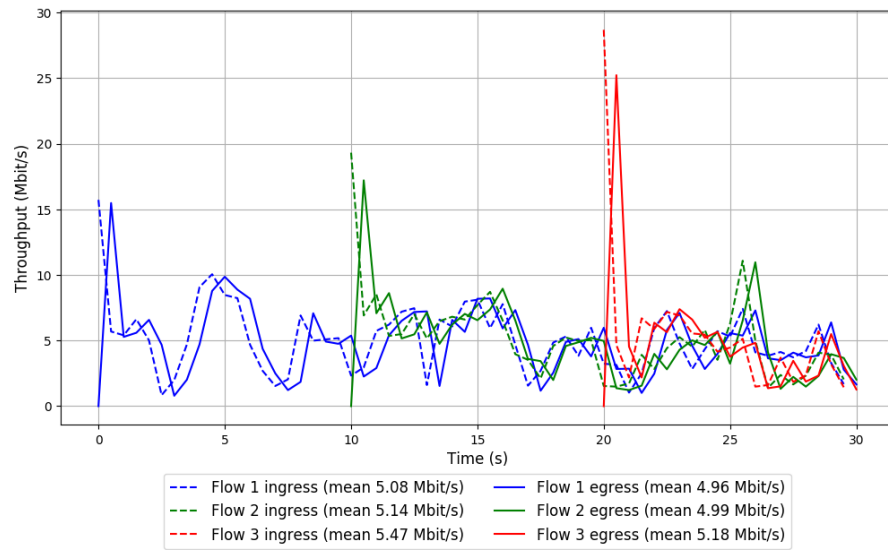


Run 1: Statistics of TCP Cubic

Start at: 2018-08-22 02:27:39  
End at: 2018-08-22 02:28:09  
Local clock offset: 1.691 ms  
Remote clock offset: -62.176 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 9.99 Mbit/s  
95th percentile per-packet one-way delay: 8.609 ms  
Loss rate: 3.11%  
-- Flow 1:  
Average throughput: 4.96 Mbit/s  
95th percentile per-packet one-way delay: 8.498 ms  
Loss rate: 2.35%  
-- Flow 2:  
Average throughput: 4.99 Mbit/s  
95th percentile per-packet one-way delay: 8.624 ms  
Loss rate: 2.96%  
-- Flow 3:  
Average throughput: 5.18 Mbit/s  
95th percentile per-packet one-way delay: 10.702 ms  
Loss rate: 5.56%

## Run 1: Report of TCP Cubic — Data Link

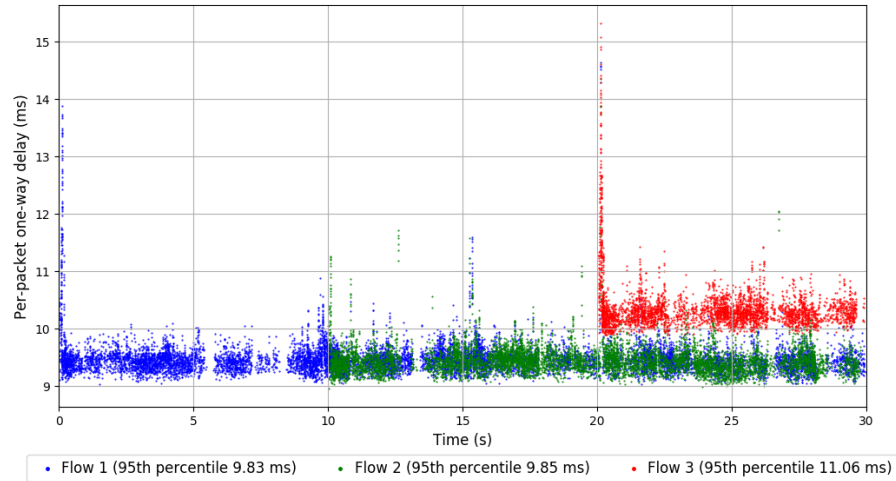
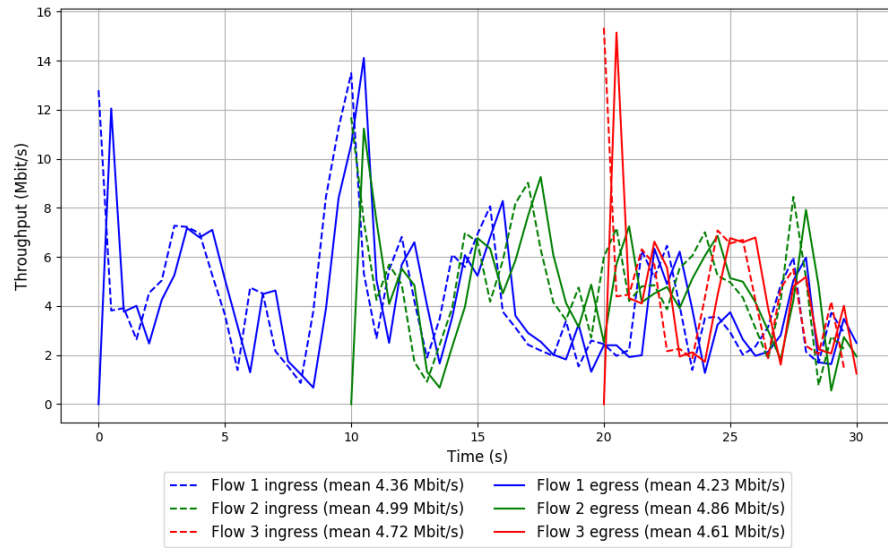


Run 2: Statistics of TCP Cubic

Start at: 2018-08-22 02:47:01  
End at: 2018-08-22 02:47:31  
Local clock offset: 0.462 ms  
Remote clock offset: -59.429 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 8.95 Mbit/s  
95th percentile per-packet one-way delay: 10.420 ms  
Loss rate: 2.90%  
-- Flow 1:  
Average throughput: 4.23 Mbit/s  
95th percentile per-packet one-way delay: 9.832 ms  
Loss rate: 3.16%  
-- Flow 2:  
Average throughput: 4.86 Mbit/s  
95th percentile per-packet one-way delay: 9.853 ms  
Loss rate: 2.76%  
-- Flow 3:  
Average throughput: 4.61 Mbit/s  
95th percentile per-packet one-way delay: 11.059 ms  
Loss rate: 2.49%

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

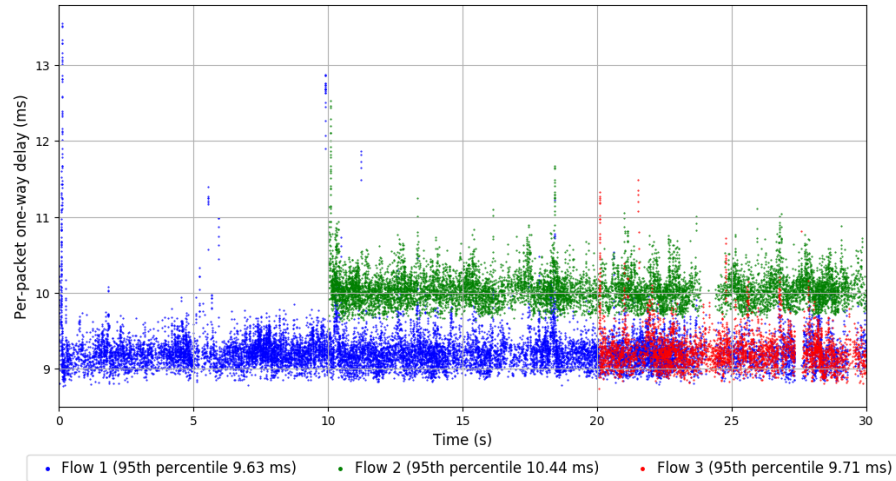
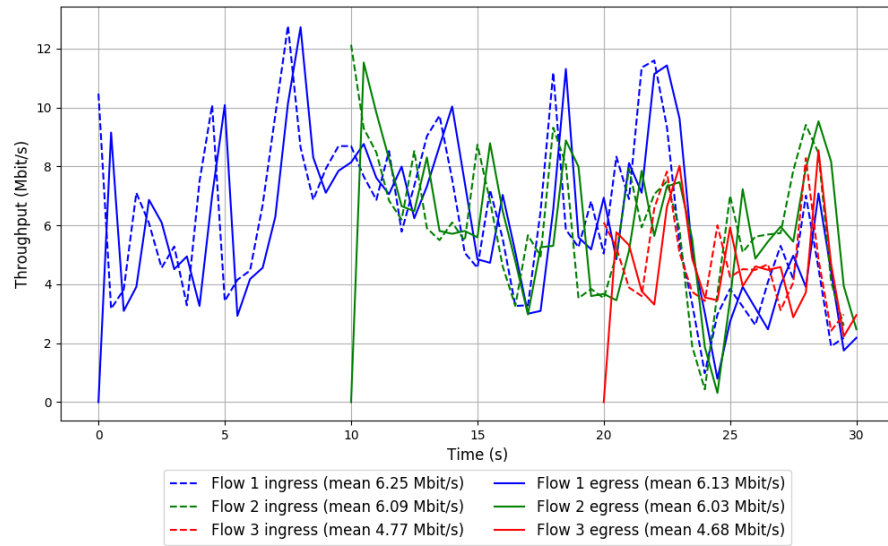


Run 3: Statistics of TCP Cubic

Start at: 2018-08-22 03:06:32  
End at: 2018-08-22 03:07:02  
Local clock offset: -0.008 ms  
Remote clock offset: -61.543 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.69 Mbit/s  
95th percentile per-packet one-way delay: 10.276 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 6.13 Mbit/s  
95th percentile per-packet one-way delay: 9.629 ms  
Loss rate: 1.89%  
-- Flow 2:  
Average throughput: 6.03 Mbit/s  
95th percentile per-packet one-way delay: 10.440 ms  
Loss rate: 1.13%  
-- Flow 3:  
Average throughput: 4.68 Mbit/s  
95th percentile per-packet one-way delay: 9.714 ms  
Loss rate: 1.94%

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



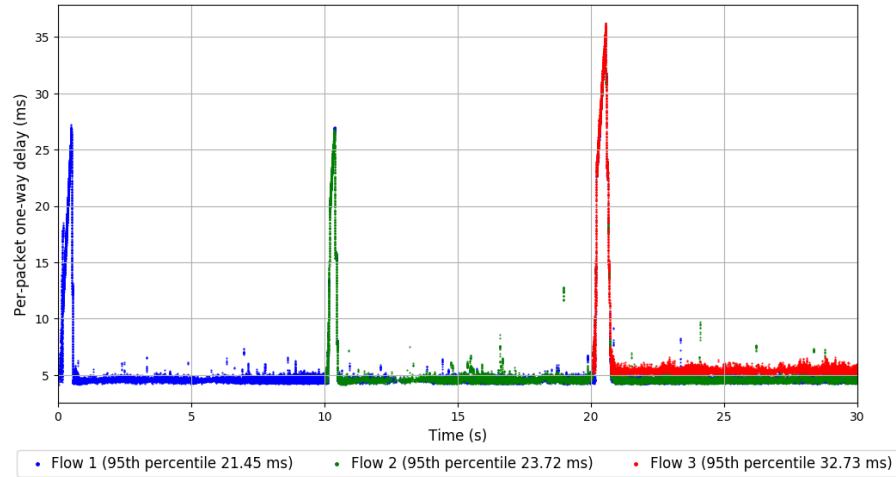
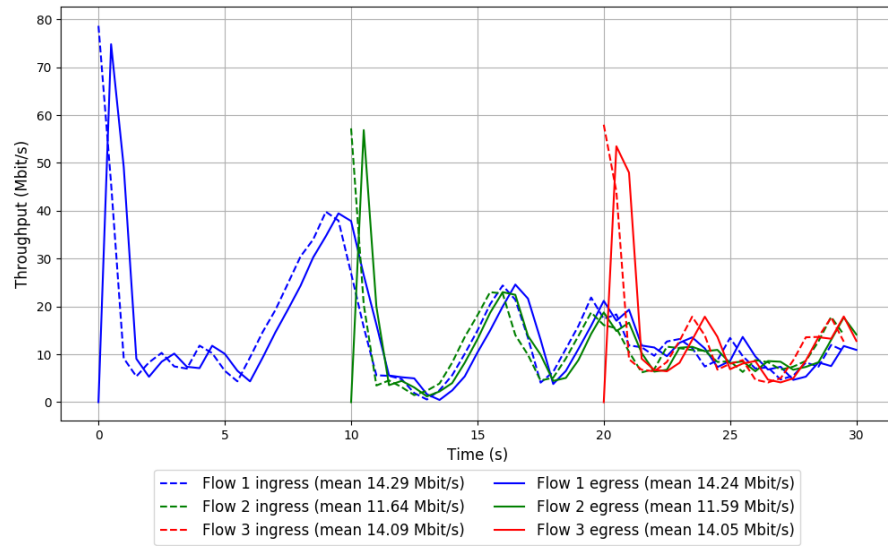
Run 4: Statistics of TCP Cubic

Start at: 2018-08-22 03:26:14  
End at: 2018-08-22 03:26:44  
Local clock offset: 2.415 ms  
Remote clock offset: -63.531 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.63 Mbit/s  
95th percentile per-packet one-way delay: 25.115 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 14.24 Mbit/s  
95th percentile per-packet one-way delay: 21.451 ms  
Loss rate: 0.31%  
-- Flow 2:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 23.717 ms  
Loss rate: 0.51%  
-- Flow 3:  
Average throughput: 14.05 Mbit/s  
95th percentile per-packet one-way delay: 32.732 ms  
Loss rate: 0.28%



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

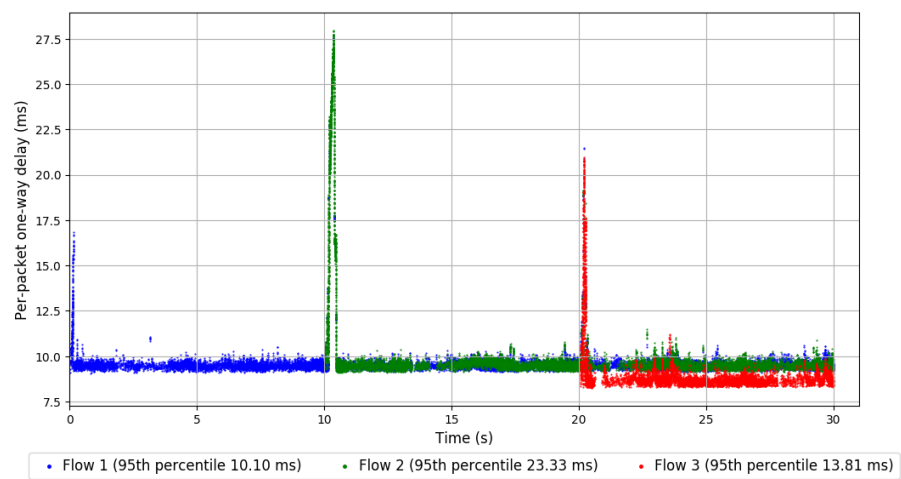
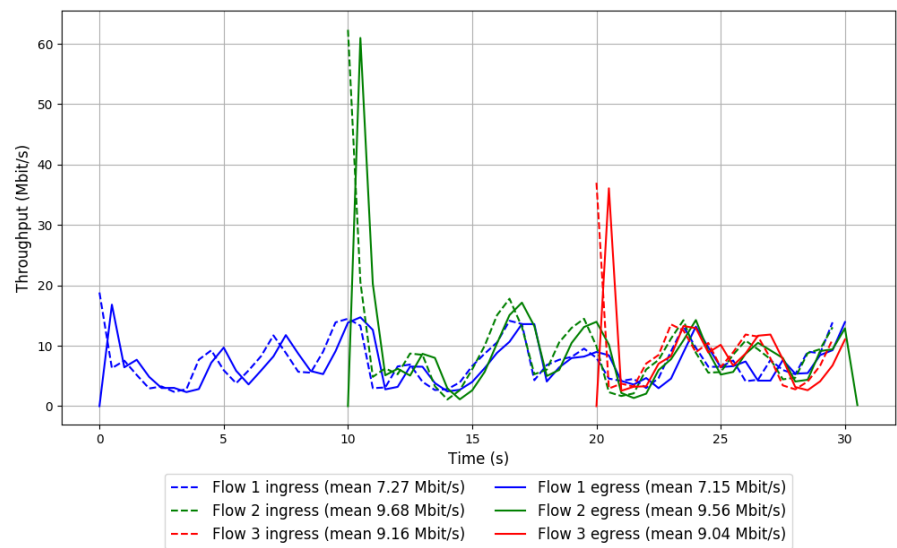


Run 5: Statistics of TCP Cubic

Start at: 2018-08-22 03:46:05  
End at: 2018-08-22 03:46:35  
Local clock offset: 0.369 ms  
Remote clock offset: -61.992 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 16.52 Mbit/s  
95th percentile per-packet one-way delay: 16.912 ms  
Loss rate: 1.44%  
-- Flow 1:  
Average throughput: 7.15 Mbit/s  
95th percentile per-packet one-way delay: 10.100 ms  
Loss rate: 1.60%  
-- Flow 2:  
Average throughput: 9.56 Mbit/s  
95th percentile per-packet one-way delay: 23.330 ms  
Loss rate: 1.30%  
-- Flow 3:  
Average throughput: 9.04 Mbit/s  
95th percentile per-packet one-way delay: 13.814 ms  
Loss rate: 1.38%

Run 5: Report of TCP Cubic — Data Link

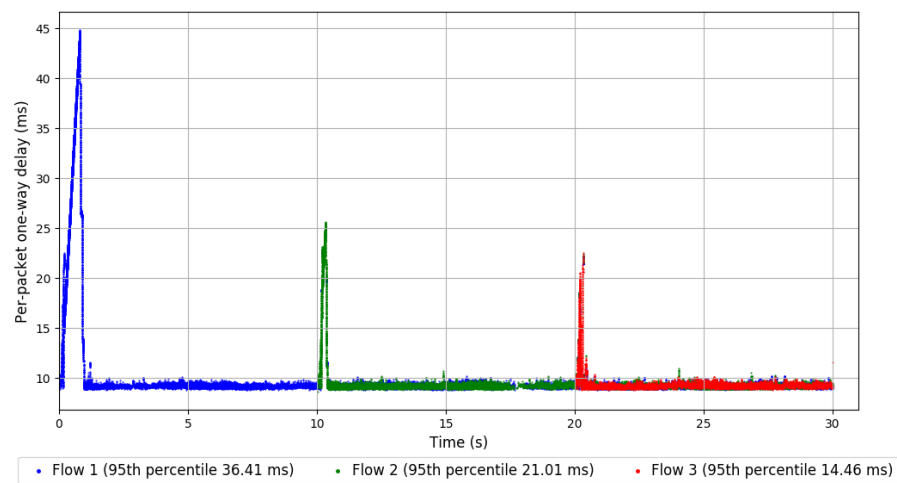
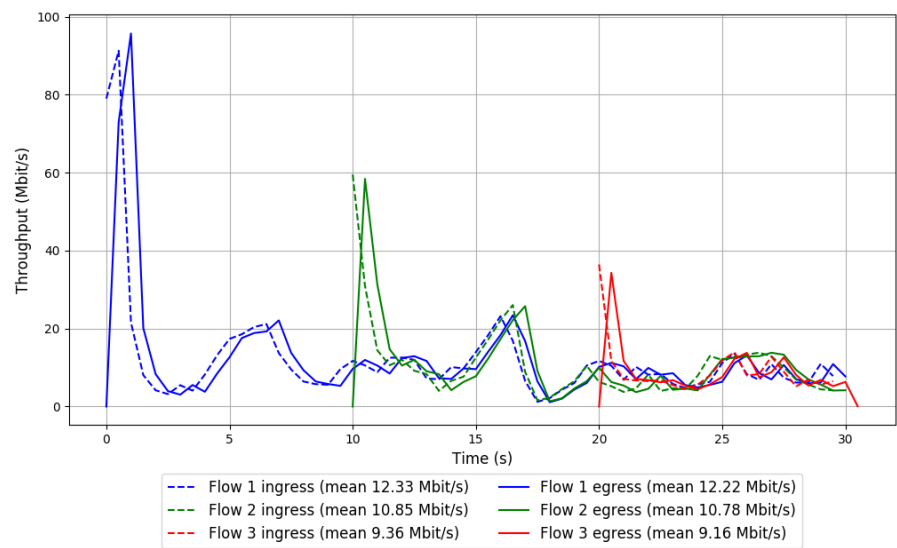


Run 6: Statistics of TCP Cubic

Start at: 2018-08-22 04:05:38  
End at: 2018-08-22 04:06:08  
Local clock offset: 1.339 ms  
Remote clock offset: -62.269 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.45 Mbit/s  
95th percentile per-packet one-way delay: 29.643 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 12.22 Mbit/s  
95th percentile per-packet one-way delay: 36.412 ms  
Loss rate: 0.87%  
-- Flow 2:  
Average throughput: 10.78 Mbit/s  
95th percentile per-packet one-way delay: 21.013 ms  
Loss rate: 0.63%  
-- Flow 3:  
Average throughput: 9.16 Mbit/s  
95th percentile per-packet one-way delay: 14.459 ms  
Loss rate: 2.08%

Run 6: Report of TCP Cubic — Data Link

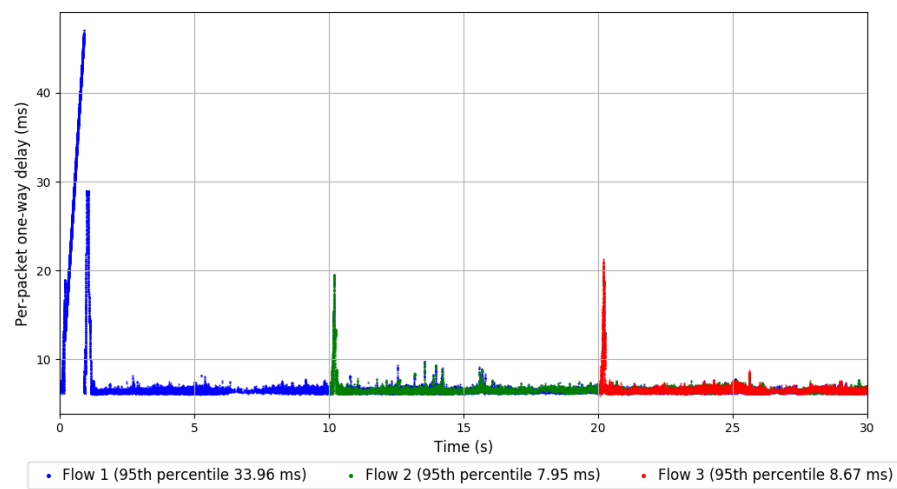
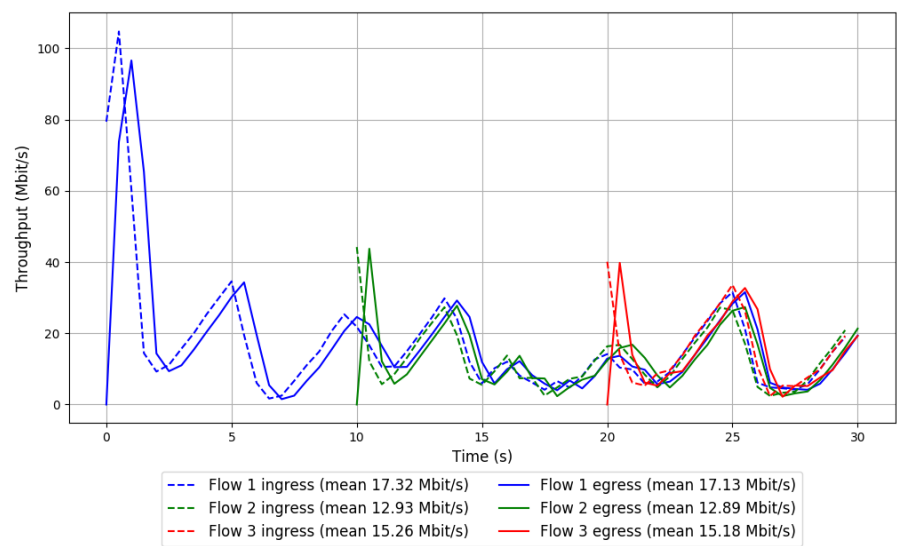


Run 7: Statistics of TCP Cubic

Start at: 2018-08-22 04:25:13  
End at: 2018-08-22 04:25:43  
Local clock offset: 3.333 ms  
Remote clock offset: -63.835 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 30.76 Mbit/s  
95th percentile per-packet one-way delay: 26.986 ms  
Loss rate: 0.79%  
-- Flow 1:  
Average throughput: 17.13 Mbit/s  
95th percentile per-packet one-way delay: 33.963 ms  
Loss rate: 1.10%  
-- Flow 2:  
Average throughput: 12.89 Mbit/s  
95th percentile per-packet one-way delay: 7.945 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 15.18 Mbit/s  
95th percentile per-packet one-way delay: 8.672 ms  
Loss rate: 0.53%

Run 7: Report of TCP Cubic — Data Link



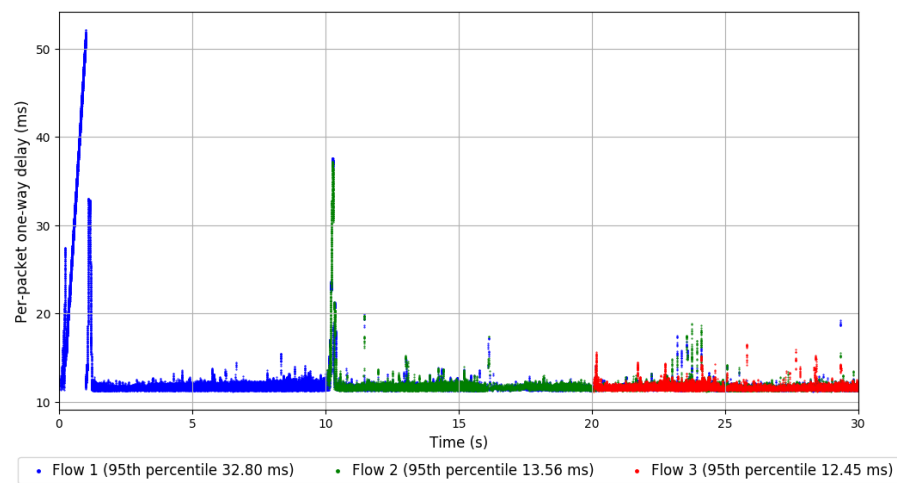
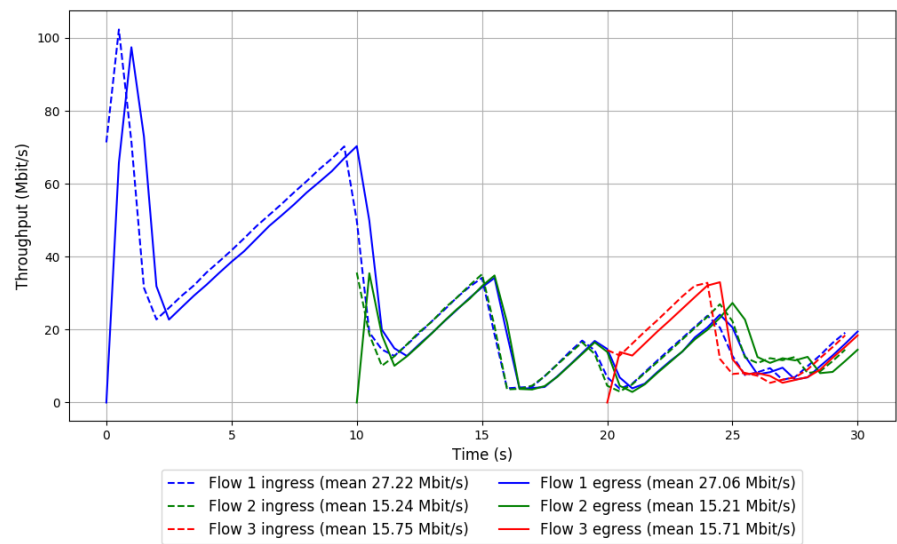
Run 8: Statistics of TCP Cubic

Start at: 2018-08-22 04:44:46  
End at: 2018-08-22 04:45:16  
Local clock offset: 4.14 ms  
Remote clock offset: -64.082 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.42 Mbit/s  
95th percentile per-packet one-way delay: 26.925 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 27.06 Mbit/s  
95th percentile per-packet one-way delay: 32.805 ms  
Loss rate: 0.59%  
-- Flow 2:  
Average throughput: 15.21 Mbit/s  
95th percentile per-packet one-way delay: 13.556 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 15.71 Mbit/s  
95th percentile per-packet one-way delay: 12.446 ms  
Loss rate: 0.25%



Run 8: Report of TCP Cubic — Data Link

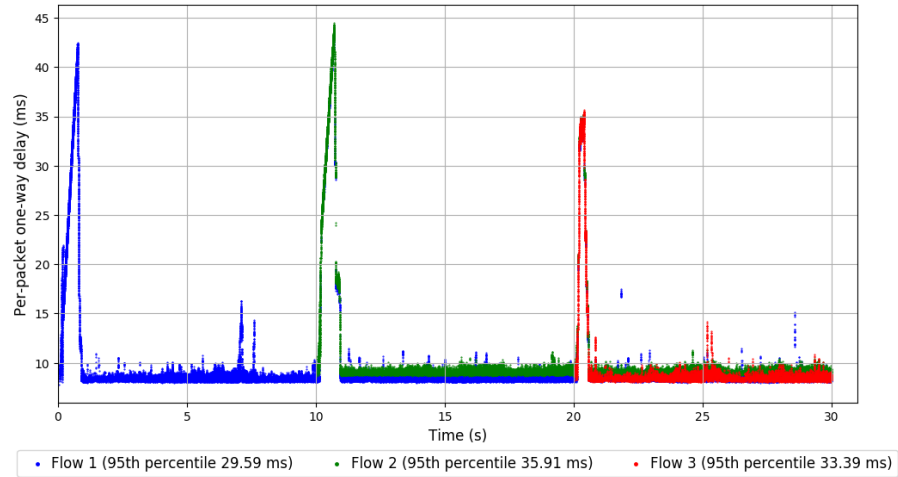
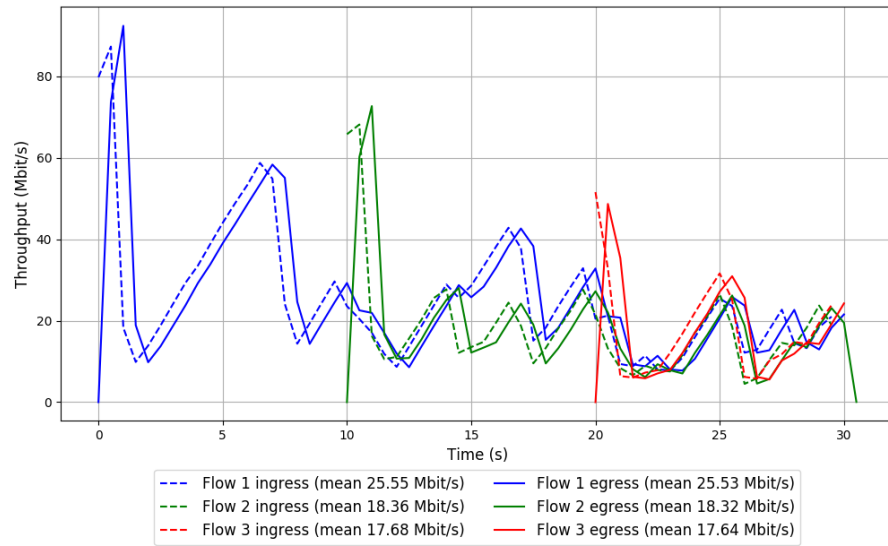


Run 9: Statistics of TCP Cubic

Start at: 2018-08-22 05:04:18  
End at: 2018-08-22 05:04:48  
Local clock offset: 1.344 ms  
Remote clock offset: -62.988 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 43.60 Mbit/s  
95th percentile per-packet one-way delay: 32.975 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 25.53 Mbit/s  
95th percentile per-packet one-way delay: 29.593 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 18.32 Mbit/s  
95th percentile per-packet one-way delay: 35.913 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 17.64 Mbit/s  
95th percentile per-packet one-way delay: 33.392 ms  
Loss rate: 0.24%

### Run 9: Report of TCP Cubic — Data Link

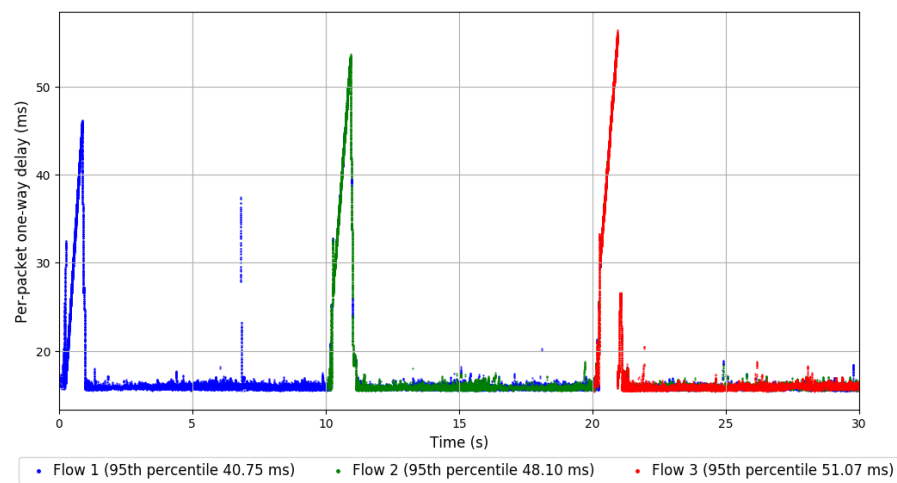
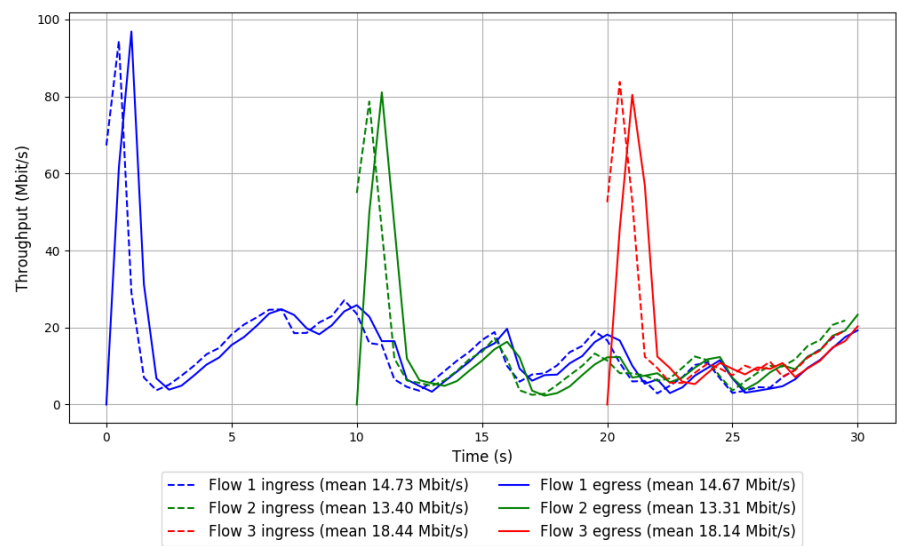


Run 10: Statistics of TCP Cubic

Start at: 2018-08-22 05:24:00  
End at: 2018-08-22 05:24:30  
Local clock offset: 2.227 ms  
Remote clock offset: -60.511 ms

# Below is generated by plot.py at 2018-08-22 05:49:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 29.56 Mbit/s  
95th percentile per-packet one-way delay: 45.713 ms  
Loss rate: 0.76%  
-- Flow 1:  
Average throughput: 14.67 Mbit/s  
95th percentile per-packet one-way delay: 40.750 ms  
Loss rate: 0.49%  
-- Flow 2:  
Average throughput: 13.31 Mbit/s  
95th percentile per-packet one-way delay: 48.098 ms  
Loss rate: 0.64%  
-- Flow 3:  
Average throughput: 18.14 Mbit/s  
95th percentile per-packet one-way delay: 51.070 ms  
Loss rate: 1.58%

Run 10: Report of TCP Cubic — Data Link

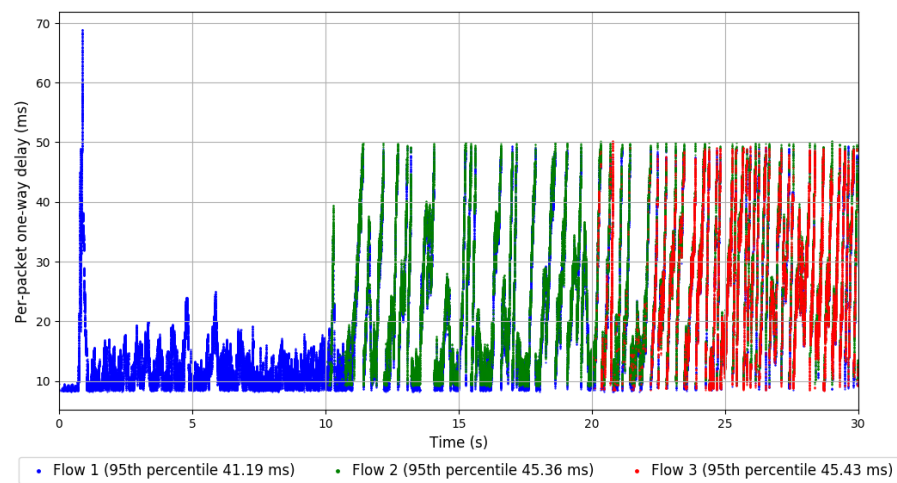
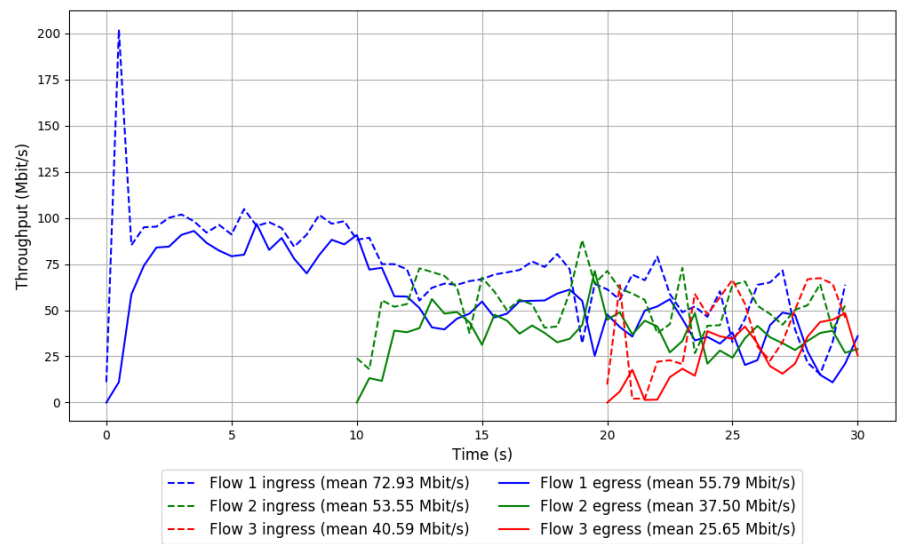


Run 1: Statistics of FillP

Start at: 2018-08-22 02:32:05  
End at: 2018-08-22 02:32:35  
Local clock offset: 1.498 ms  
Remote clock offset: -60.353 ms

# Below is generated by plot.py at 2018-08-22 05:49:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.26 Mbit/s  
95th percentile per-packet one-way delay: 43.693 ms  
Loss rate: 26.86%  
-- Flow 1:  
Average throughput: 55.79 Mbit/s  
95th percentile per-packet one-way delay: 41.186 ms  
Loss rate: 23.49%  
-- Flow 2:  
Average throughput: 37.50 Mbit/s  
95th percentile per-packet one-way delay: 45.358 ms  
Loss rate: 29.97%  
-- Flow 3:  
Average throughput: 25.65 Mbit/s  
95th percentile per-packet one-way delay: 45.430 ms  
Loss rate: 36.84%

Run 1: Report of FillP — Data Link



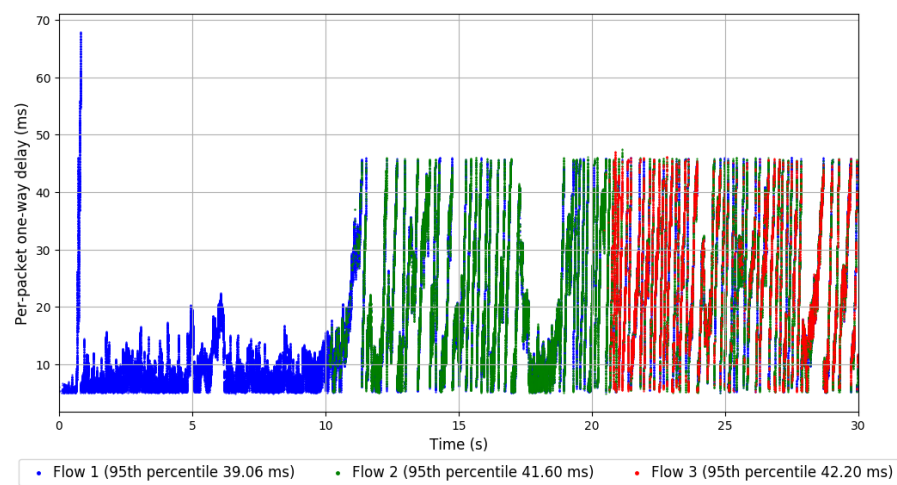
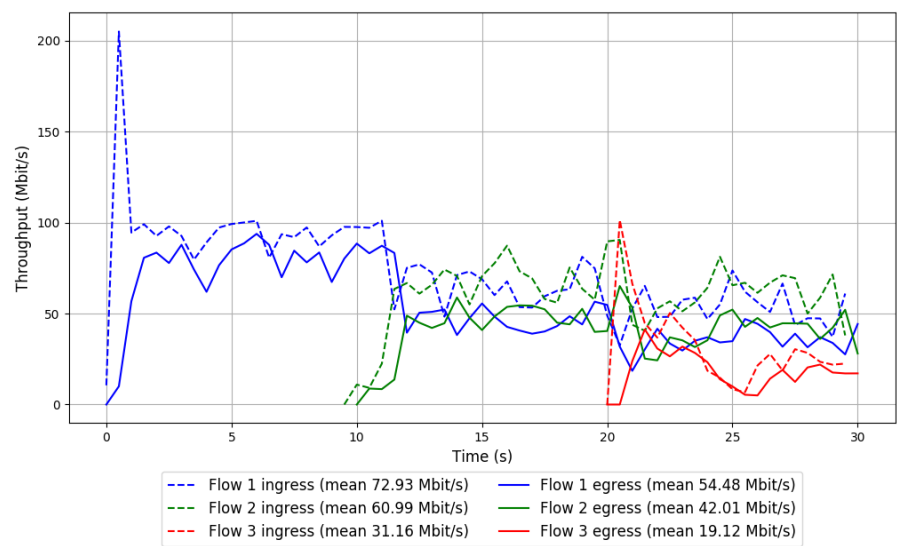
Run 2: Statistics of FillP

Start at: 2018-08-22 02:51:33  
End at: 2018-08-22 02:52:03  
Local clock offset: 3.097 ms  
Remote clock offset: -60.346 ms

# Below is generated by plot.py at 2018-08-22 05:50:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.80 Mbit/s  
95th percentile per-packet one-way delay: 40.511 ms  
Loss rate: 28.31%  
-- Flow 1:  
Average throughput: 54.48 Mbit/s  
95th percentile per-packet one-way delay: 39.060 ms  
Loss rate: 25.28%  
-- Flow 2:  
Average throughput: 42.01 Mbit/s  
95th percentile per-packet one-way delay: 41.601 ms  
Loss rate: 31.11%  
-- Flow 3:  
Average throughput: 19.12 Mbit/s  
95th percentile per-packet one-way delay: 42.196 ms  
Loss rate: 38.75%



Run 2: Report of FillP — Data Link

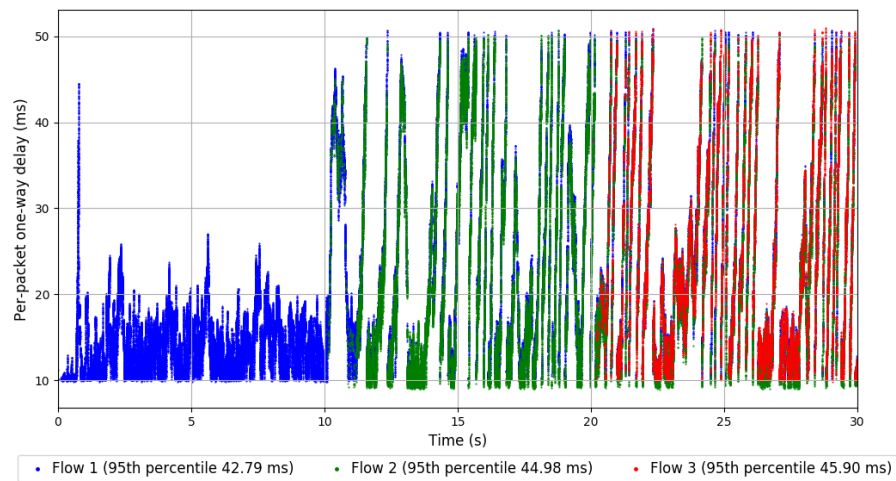
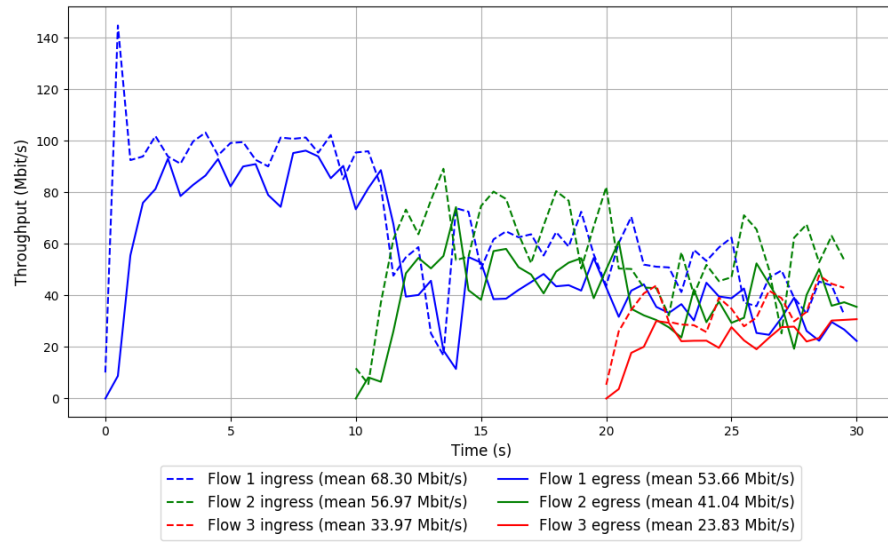


Run 3: Statistics of FillP

Start at: 2018-08-22 03:10:57  
End at: 2018-08-22 03:11:27  
Local clock offset: -0.748 ms  
Remote clock offset: -61.799 ms

# Below is generated by plot.py at 2018-08-22 05:50:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.88 Mbit/s  
95th percentile per-packet one-way delay: 44.186 ms  
Loss rate: 24.36%  
-- Flow 1:  
Average throughput: 53.66 Mbit/s  
95th percentile per-packet one-way delay: 42.793 ms  
Loss rate: 21.43%  
-- Flow 2:  
Average throughput: 41.04 Mbit/s  
95th percentile per-packet one-way delay: 44.983 ms  
Loss rate: 27.96%  
-- Flow 3:  
Average throughput: 23.83 Mbit/s  
95th percentile per-packet one-way delay: 45.904 ms  
Loss rate: 29.98%

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

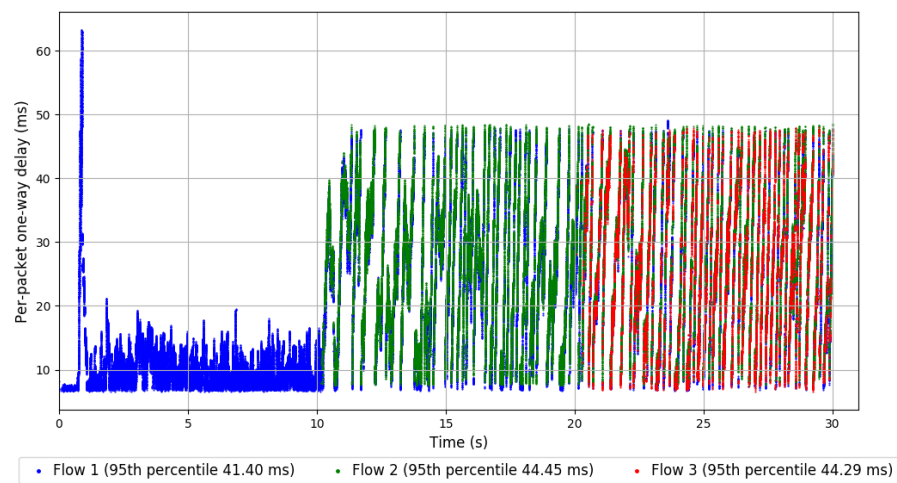
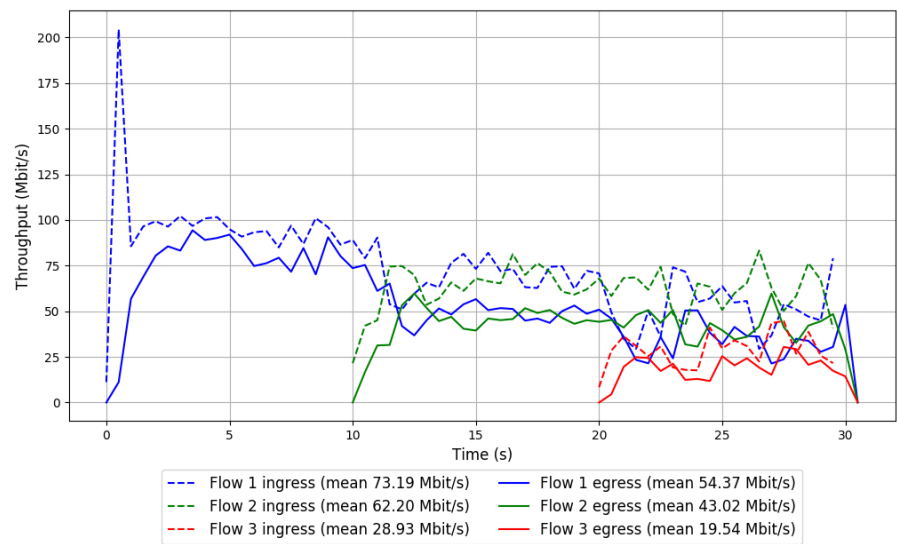


Run 4: Statistics of FillP

Start at: 2018-08-22 03:30:42  
End at: 2018-08-22 03:31:12  
Local clock offset: 0.414 ms  
Remote clock offset: -62.932 ms

# Below is generated by plot.py at 2018-08-22 05:50:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.49 Mbit/s  
95th percentile per-packet one-way delay: 43.074 ms  
Loss rate: 27.83%  
-- Flow 1:  
Average throughput: 54.37 Mbit/s  
95th percentile per-packet one-way delay: 41.404 ms  
Loss rate: 25.61%  
-- Flow 2:  
Average throughput: 43.02 Mbit/s  
95th percentile per-packet one-way delay: 44.454 ms  
Loss rate: 30.71%  
-- Flow 3:  
Average throughput: 19.54 Mbit/s  
95th percentile per-packet one-way delay: 44.289 ms  
Loss rate: 32.33%

Run 4: Report of FillP — Data Link

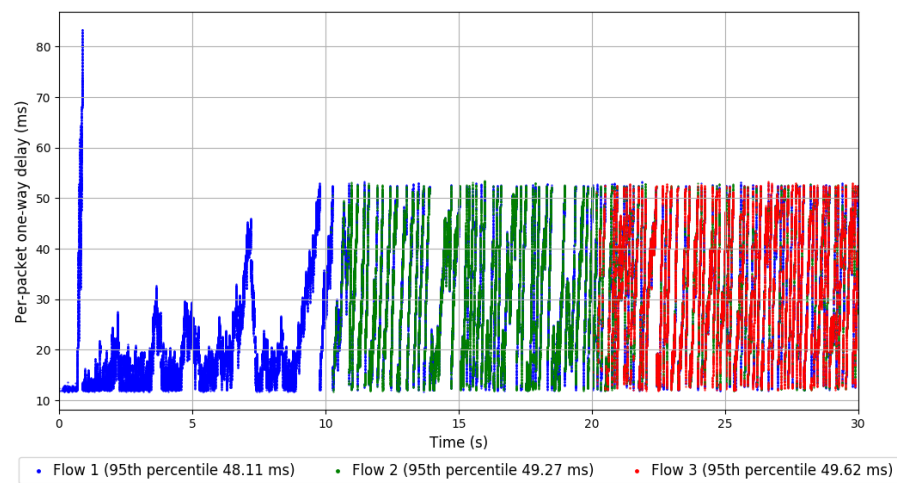
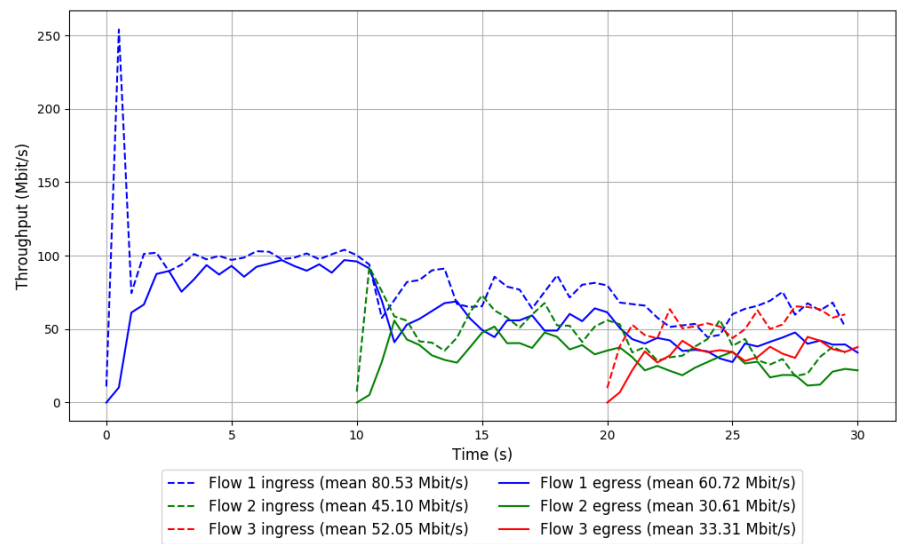


Run 5: Statistics of FillP

Start at: 2018-08-22 03:50:31  
End at: 2018-08-22 03:51:01  
Local clock offset: 3.139 ms  
Remote clock offset: -62.433 ms

# Below is generated by plot.py at 2018-08-22 05:50:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.14 Mbit/s  
95th percentile per-packet one-way delay: 48.699 ms  
Loss rate: 27.87%  
-- Flow 1:  
Average throughput: 60.72 Mbit/s  
95th percentile per-packet one-way delay: 48.109 ms  
Loss rate: 24.55%  
-- Flow 2:  
Average throughput: 30.61 Mbit/s  
95th percentile per-packet one-way delay: 49.268 ms  
Loss rate: 32.15%  
-- Flow 3:  
Average throughput: 33.31 Mbit/s  
95th percentile per-packet one-way delay: 49.616 ms  
Loss rate: 35.90%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-08-22 04:10:05

End at: 2018-08-22 04:10:35

Local clock offset: 1.541 ms

Remote clock offset: -63.0 ms

# Below is generated by plot.py at 2018-08-22 05:50:22

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.36 Mbit/s

95th percentile per-packet one-way delay: 44.942 ms

Loss rate: 29.66%

-- Flow 1:

Average throughput: 56.25 Mbit/s

95th percentile per-packet one-way delay: 42.859 ms

Loss rate: 25.49%

-- Flow 2:

Average throughput: 37.92 Mbit/s

95th percentile per-packet one-way delay: 44.743 ms

Loss rate: 33.67%

-- Flow 3:

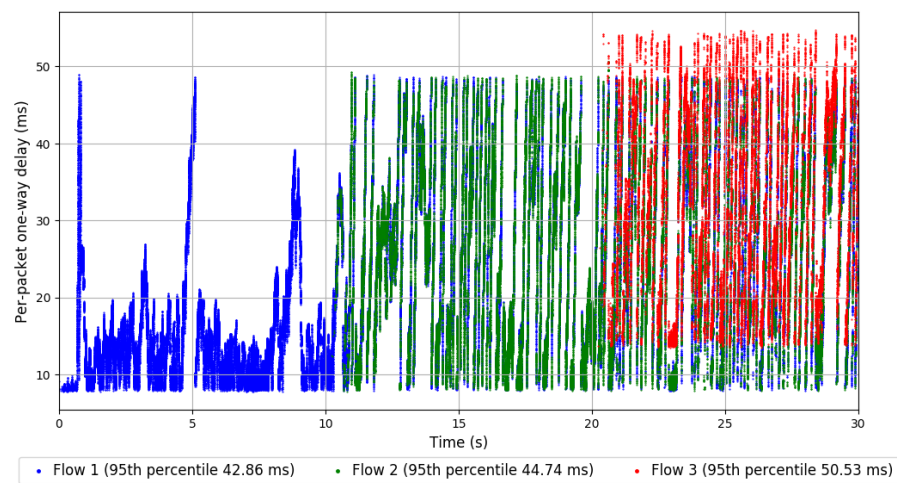
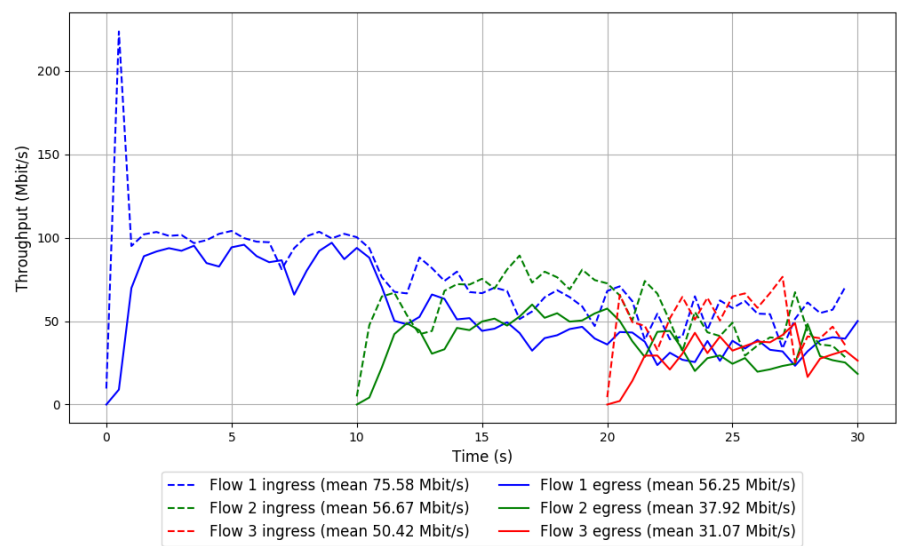
Average throughput: 31.07 Mbit/s

95th percentile per-packet one-way delay: 50.528 ms

Loss rate: 39.45%



Run 6: Report of FillP — Data Link

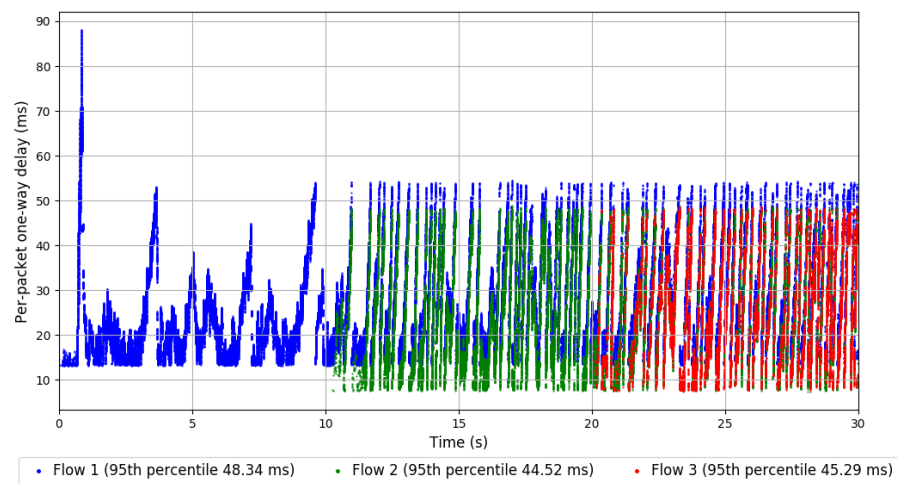
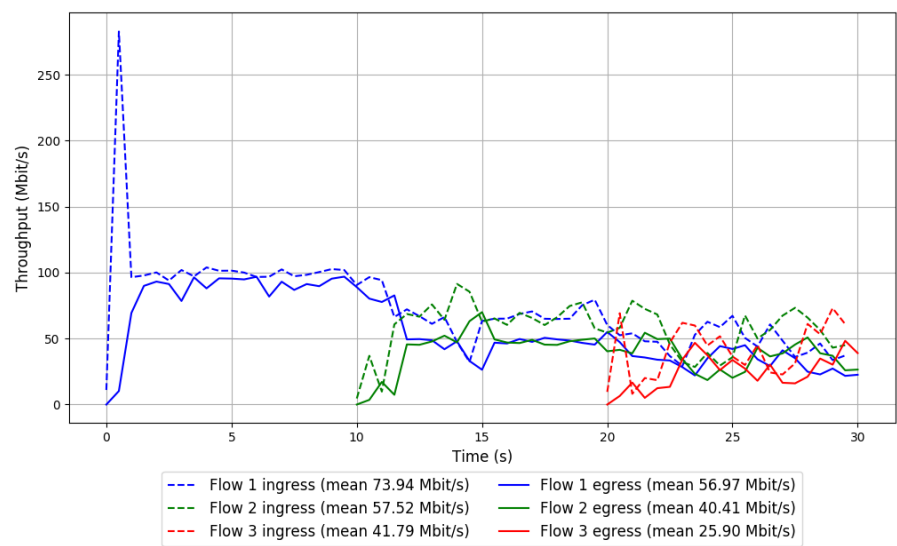


Run 7: Statistics of FillP

Start at: 2018-08-22 04:29:42  
End at: 2018-08-22 04:30:12  
Local clock offset: 1.241 ms  
Remote clock offset: -64.532 ms

# Below is generated by plot.py at 2018-08-22 05:50:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.17 Mbit/s  
95th percentile per-packet one-way delay: 46.492 ms  
Loss rate: 26.89%  
-- Flow 1:  
Average throughput: 56.97 Mbit/s  
95th percentile per-packet one-way delay: 48.342 ms  
Loss rate: 22.96%  
-- Flow 2:  
Average throughput: 40.41 Mbit/s  
95th percentile per-packet one-way delay: 44.517 ms  
Loss rate: 30.45%  
-- Flow 3:  
Average throughput: 25.90 Mbit/s  
95th percentile per-packet one-way delay: 45.288 ms  
Loss rate: 38.04%

Run 7: Report of FillP — Data Link

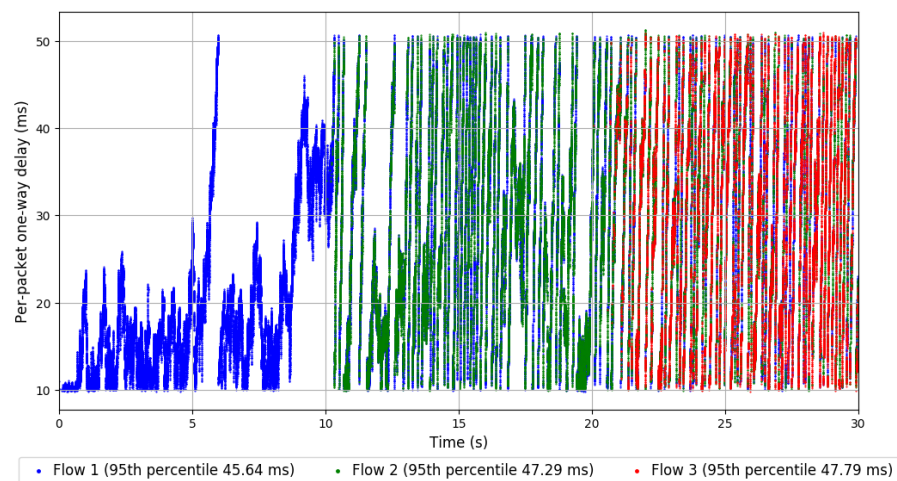
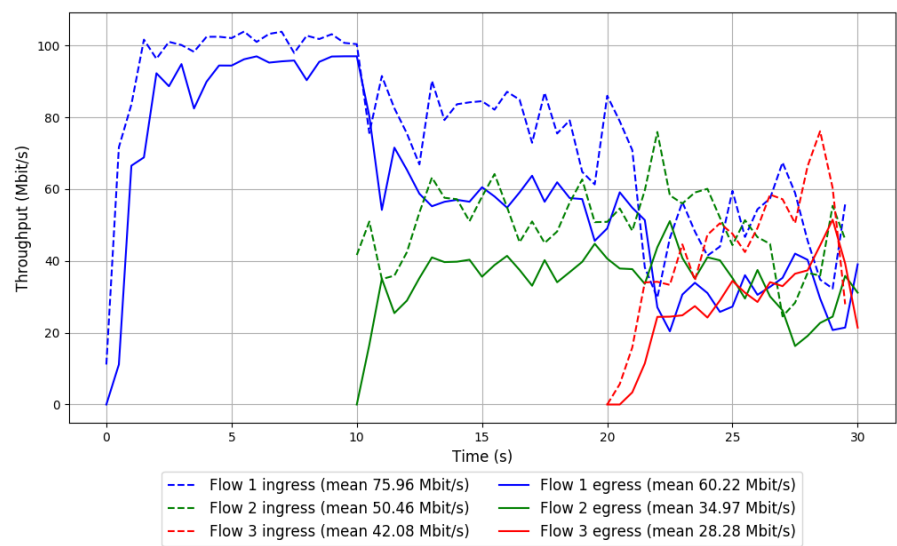


Run 8: Statistics of FillP

Start at: 2018-08-22 04:49:14  
End at: 2018-08-22 04:49:44  
Local clock offset: 0.316 ms  
Remote clock offset: -63.046 ms

# Below is generated by plot.py at 2018-08-22 05:51:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.85 Mbit/s  
95th percentile per-packet one-way delay: 46.513 ms  
Loss rate: 24.82%  
-- Flow 1:  
Average throughput: 60.22 Mbit/s  
95th percentile per-packet one-way delay: 45.639 ms  
Loss rate: 20.70%  
-- Flow 2:  
Average throughput: 34.97 Mbit/s  
95th percentile per-packet one-way delay: 47.288 ms  
Loss rate: 30.75%  
-- Flow 3:  
Average throughput: 28.28 Mbit/s  
95th percentile per-packet one-way delay: 47.788 ms  
Loss rate: 32.94%

Run 8: Report of FillP — Data Link

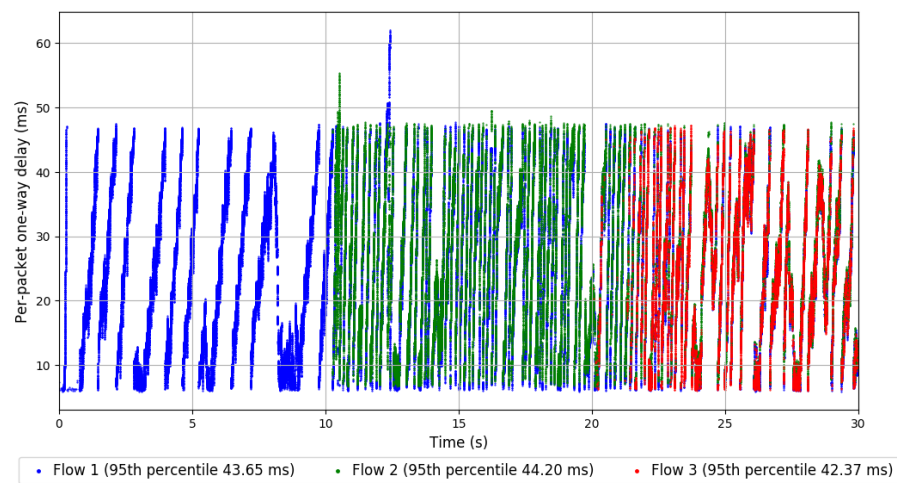
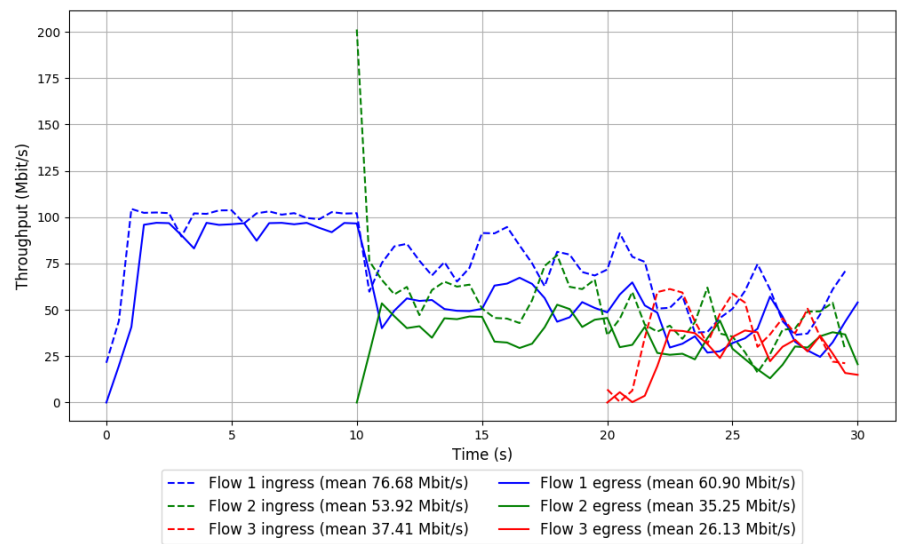


Run 9: Statistics of FillP

Start at: 2018-08-22 05:08:47  
End at: 2018-08-22 05:09:17  
Local clock offset: 3.046 ms  
Remote clock offset: -62.907 ms

# Below is generated by plot.py at 2018-08-22 05:51:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.01 Mbit/s  
95th percentile per-packet one-way delay: 43.694 ms  
Loss rate: 25.58%  
-- Flow 1:  
Average throughput: 60.90 Mbit/s  
95th percentile per-packet one-way delay: 43.649 ms  
Loss rate: 20.57%  
-- Flow 2:  
Average throughput: 35.25 Mbit/s  
95th percentile per-packet one-way delay: 44.202 ms  
Loss rate: 34.68%  
-- Flow 3:  
Average throughput: 26.13 Mbit/s  
95th percentile per-packet one-way delay: 42.370 ms  
Loss rate: 30.24%

Run 9: Report of FillP — Data Link



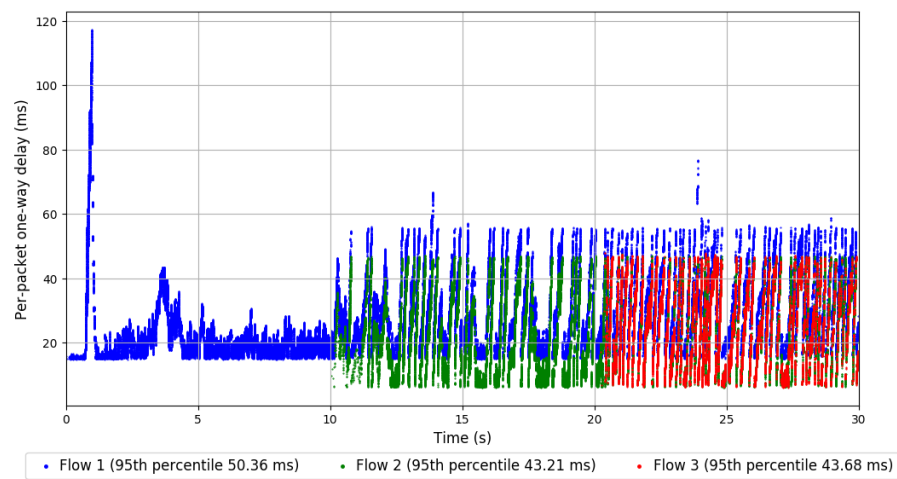
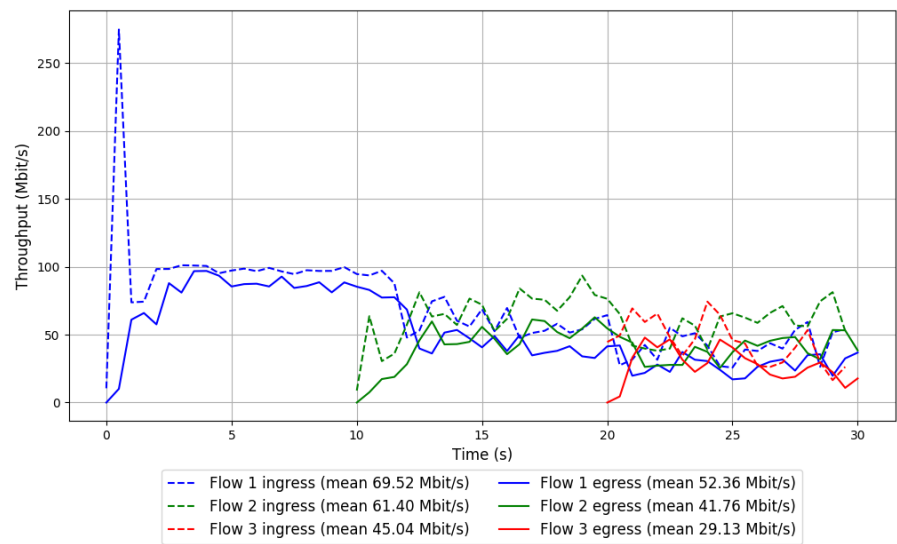
Run 10: Statistics of FillP

Start at: 2018-08-22 05:28:31  
End at: 2018-08-22 05:29:01  
Local clock offset: 2.135 ms  
Remote clock offset: -60.252 ms

# Below is generated by plot.py at 2018-08-22 05:51:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.63 Mbit/s  
95th percentile per-packet one-way delay: 46.356 ms  
Loss rate: 28.47%  
-- Flow 1:  
Average throughput: 52.36 Mbit/s  
95th percentile per-packet one-way delay: 50.361 ms  
Loss rate: 24.67%  
-- Flow 2:  
Average throughput: 41.76 Mbit/s  
95th percentile per-packet one-way delay: 43.213 ms  
Loss rate: 31.96%  
-- Flow 3:  
Average throughput: 29.13 Mbit/s  
95th percentile per-packet one-way delay: 43.677 ms  
Loss rate: 36.63%



Run 10: Report of FillP — Data Link

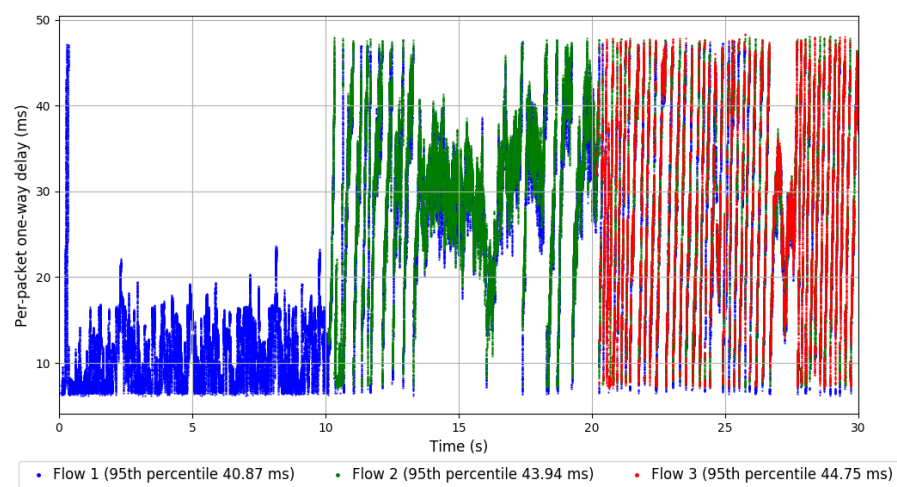
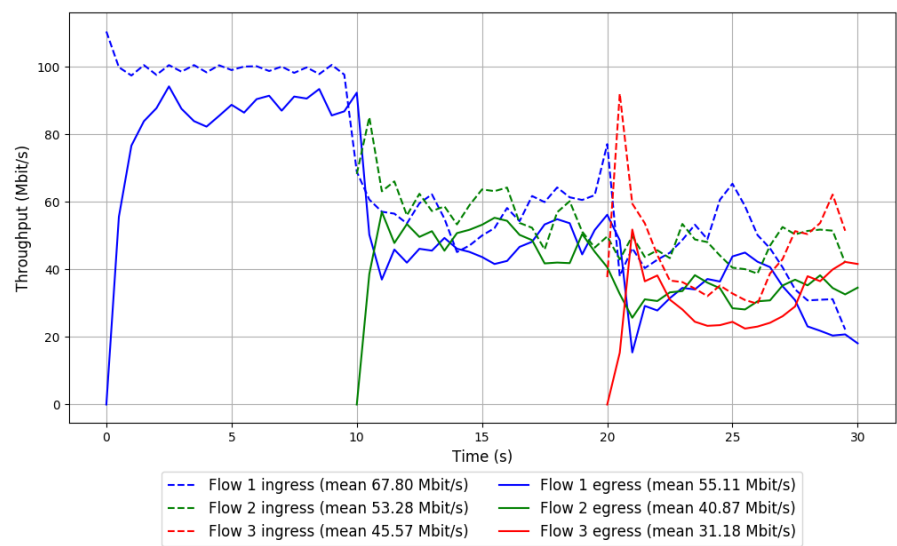


Run 1: Statistics of FillP-Sheep

Start at: 2018-08-22 02:35:33  
End at: 2018-08-22 02:36:03  
Local clock offset: 2.926 ms  
Remote clock offset: -60.726 ms

# Below is generated by plot.py at 2018-08-22 05:51:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.68 Mbit/s  
95th percentile per-packet one-way delay: 42.789 ms  
Loss rate: 21.65%  
-- Flow 1:  
Average throughput: 55.11 Mbit/s  
95th percentile per-packet one-way delay: 40.871 ms  
Loss rate: 18.63%  
-- Flow 2:  
Average throughput: 40.87 Mbit/s  
95th percentile per-packet one-way delay: 43.940 ms  
Loss rate: 23.16%  
-- Flow 3:  
Average throughput: 31.18 Mbit/s  
95th percentile per-packet one-way delay: 44.746 ms  
Loss rate: 31.59%

Run 1: Report of FillP-Sheep — Data Link

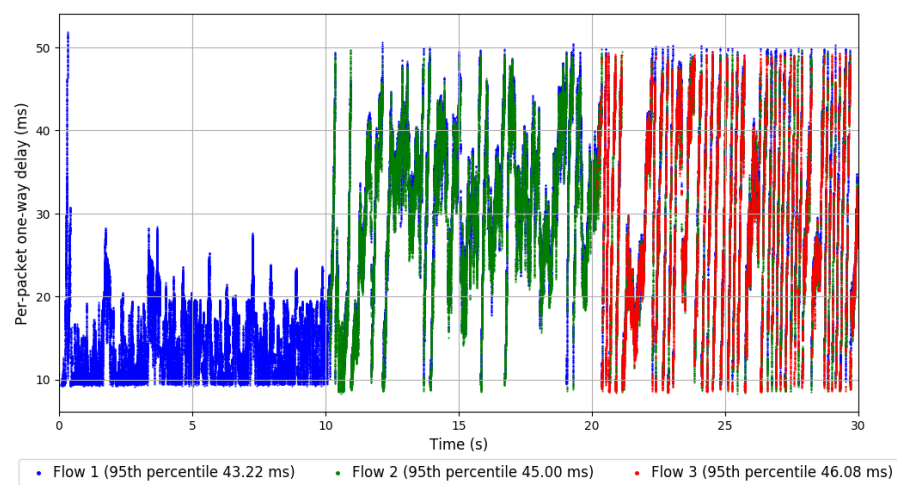
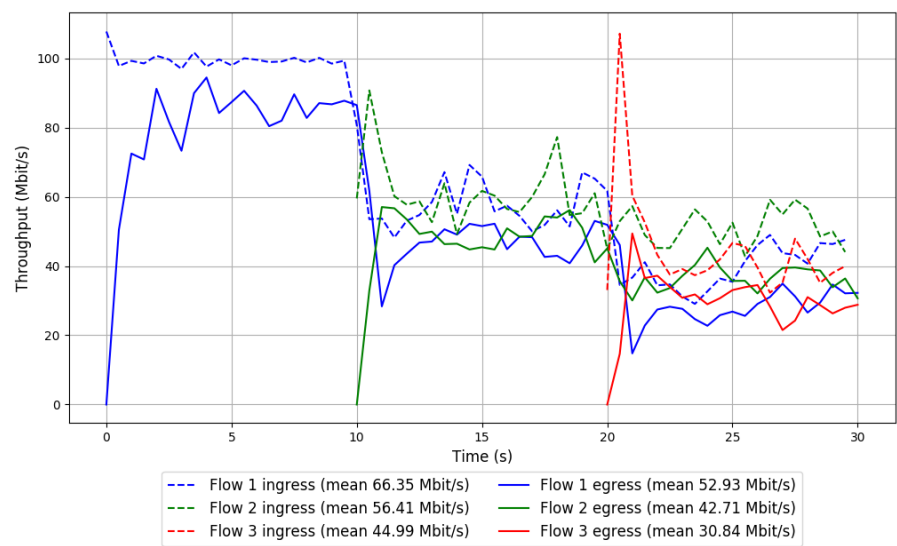


Run 2: Statistics of FillP-Sheep

Start at: 2018-08-22 02:55:00  
End at: 2018-08-22 02:55:30  
Local clock offset: 0.279 ms  
Remote clock offset: -59.685 ms

# Below is generated by plot.py at 2018-08-22 05:51:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.60 Mbit/s  
95th percentile per-packet one-way delay: 44.474 ms  
Loss rate: 22.88%  
-- Flow 1:  
Average throughput: 52.93 Mbit/s  
95th percentile per-packet one-way delay: 43.222 ms  
Loss rate: 20.18%  
-- Flow 2:  
Average throughput: 42.71 Mbit/s  
95th percentile per-packet one-way delay: 45.003 ms  
Loss rate: 24.22%  
-- Flow 3:  
Average throughput: 30.84 Mbit/s  
95th percentile per-packet one-way delay: 46.084 ms  
Loss rate: 31.47%

Run 2: Report of FillP-Sheep — Data Link

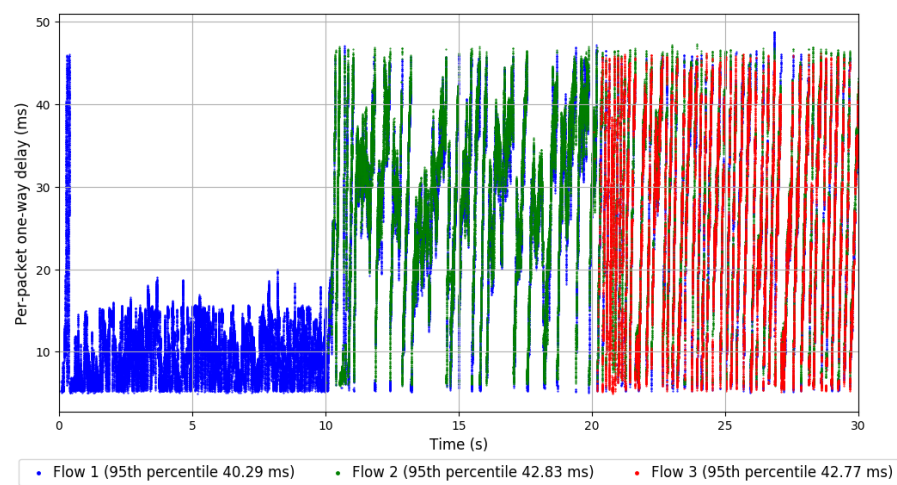
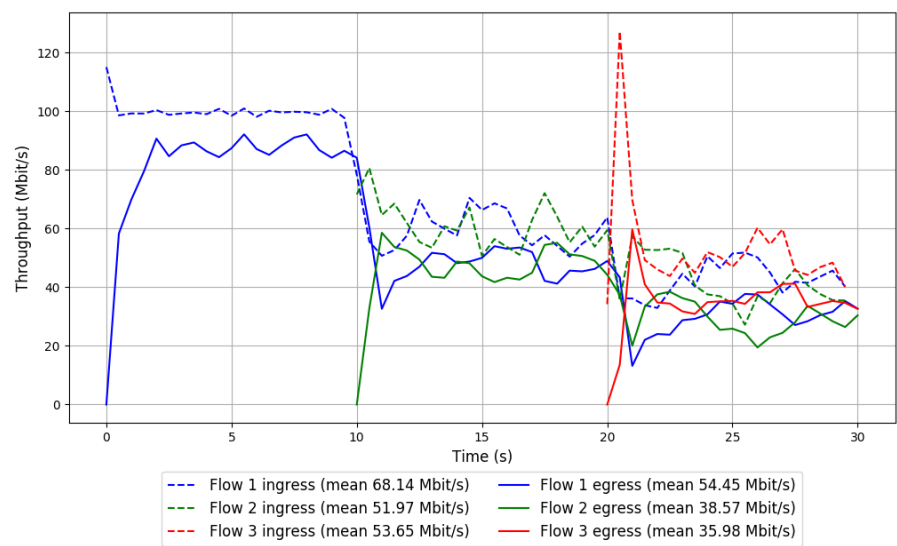


Run 3: Statistics of FillP-Sheep

Start at: 2018-08-22 03:14:35  
End at: 2018-08-22 03:15:05  
Local clock offset: 2.056 ms  
Remote clock offset: -62.903 ms

# Below is generated by plot.py at 2018-08-22 05:51:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.06 Mbit/s  
95th percentile per-packet one-way delay: 41.629 ms  
Loss rate: 23.53%  
-- Flow 1:  
Average throughput: 54.45 Mbit/s  
95th percentile per-packet one-way delay: 40.286 ms  
Loss rate: 20.00%  
-- Flow 2:  
Average throughput: 38.57 Mbit/s  
95th percentile per-packet one-way delay: 42.825 ms  
Loss rate: 25.67%  
-- Flow 3:  
Average throughput: 35.98 Mbit/s  
95th percentile per-packet one-way delay: 42.772 ms  
Loss rate: 32.91%

Run 3: Report of FillP-Sheep — Data Link



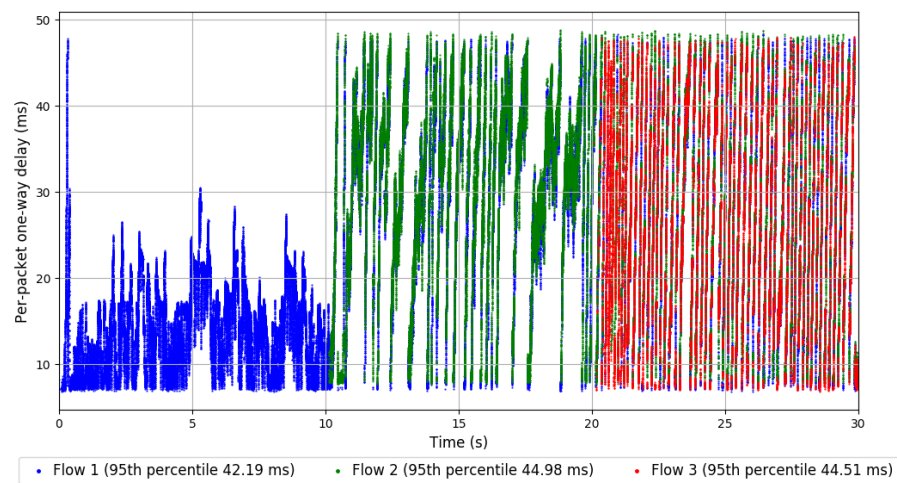
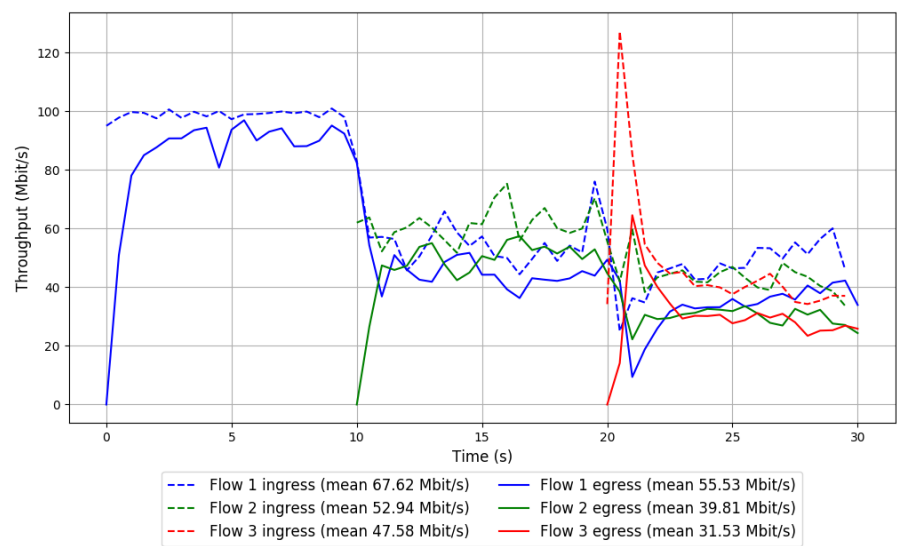
Run 4: Statistics of FillP-Sheep

Start at: 2018-08-22 03:34:15  
End at: 2018-08-22 03:34:45  
Local clock offset: -0.757 ms  
Remote clock offset: -63.563 ms

# Below is generated by plot.py at 2018-08-22 05:51:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.45 Mbit/s  
95th percentile per-packet one-way delay: 43.726 ms  
Loss rate: 22.06%  
-- Flow 1:  
Average throughput: 55.53 Mbit/s  
95th percentile per-packet one-way delay: 42.190 ms  
Loss rate: 17.87%  
-- Flow 2:  
Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 44.976 ms  
Loss rate: 24.81%  
-- Flow 3:  
Average throughput: 31.53 Mbit/s  
95th percentile per-packet one-way delay: 44.514 ms  
Loss rate: 33.91%



Run 4: Report of FillP-Sheep — Data Link

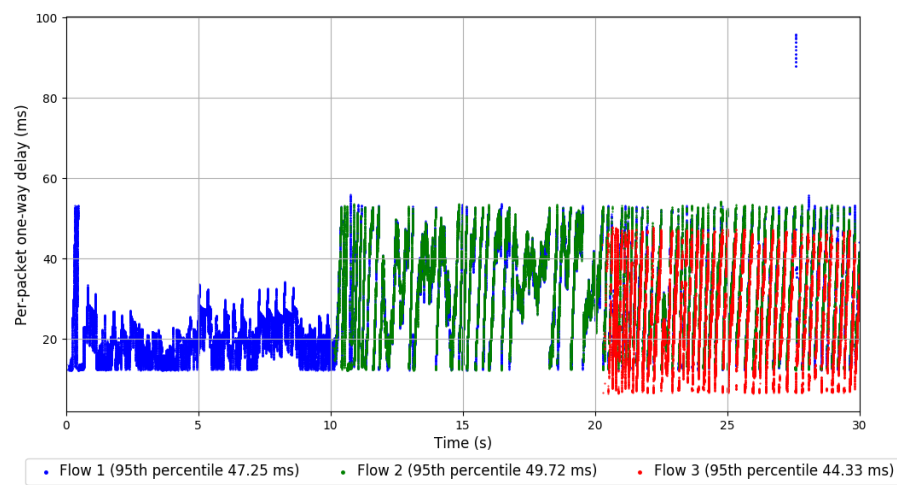
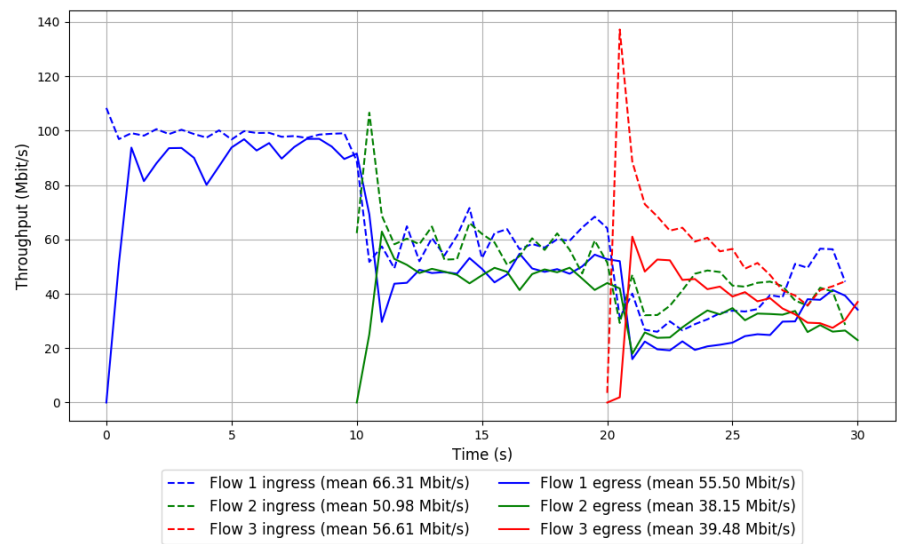


Run 5: Statistics of FillP-Sheep

Start at: 2018-08-22 03:54:01  
End at: 2018-08-22 03:54:31  
Local clock offset: 3.536 ms  
Remote clock offset: -61.726 ms

# Below is generated by plot.py at 2018-08-22 05:52:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.67 Mbit/s  
95th percentile per-packet one-way delay: 47.863 ms  
Loss rate: 21.20%  
-- Flow 1:  
Average throughput: 55.50 Mbit/s  
95th percentile per-packet one-way delay: 47.254 ms  
Loss rate: 16.23%  
-- Flow 2:  
Average throughput: 38.15 Mbit/s  
95th percentile per-packet one-way delay: 49.719 ms  
Loss rate: 25.10%  
-- Flow 3:  
Average throughput: 39.48 Mbit/s  
95th percentile per-packet one-way delay: 44.326 ms  
Loss rate: 31.72%

Run 5: Report of FillP-Sheep — Data Link

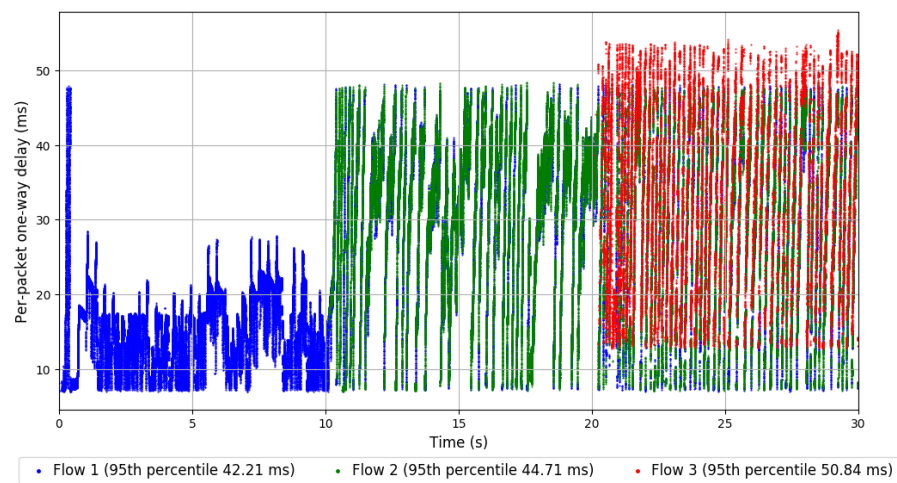
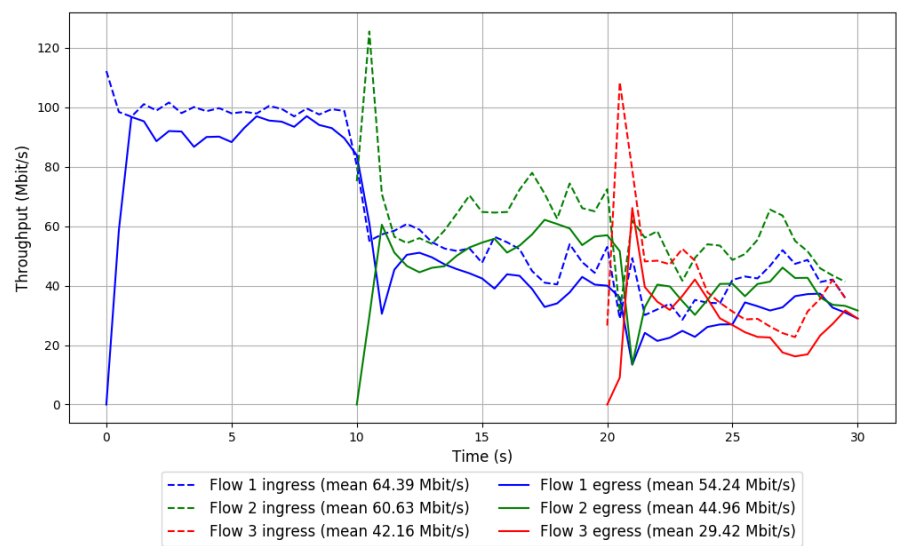


Run 6: Statistics of FillP-Sheep

Start at: 2018-08-22 04:13:35  
End at: 2018-08-22 04:14:05  
Local clock offset: 2.515 ms  
Remote clock offset: -63.002 ms

# Below is generated by plot.py at 2018-08-22 05:52:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.88 Mbit/s  
95th percentile per-packet one-way delay: 44.812 ms  
Loss rate: 20.92%  
-- Flow 1:  
Average throughput: 54.24 Mbit/s  
95th percentile per-packet one-way delay: 42.209 ms  
Loss rate: 15.75%  
-- Flow 2:  
Average throughput: 44.96 Mbit/s  
95th percentile per-packet one-way delay: 44.711 ms  
Loss rate: 25.86%  
-- Flow 3:  
Average throughput: 29.42 Mbit/s  
95th percentile per-packet one-way delay: 50.839 ms  
Loss rate: 30.42%

Run 6: Report of FillP-Sheep — Data Link

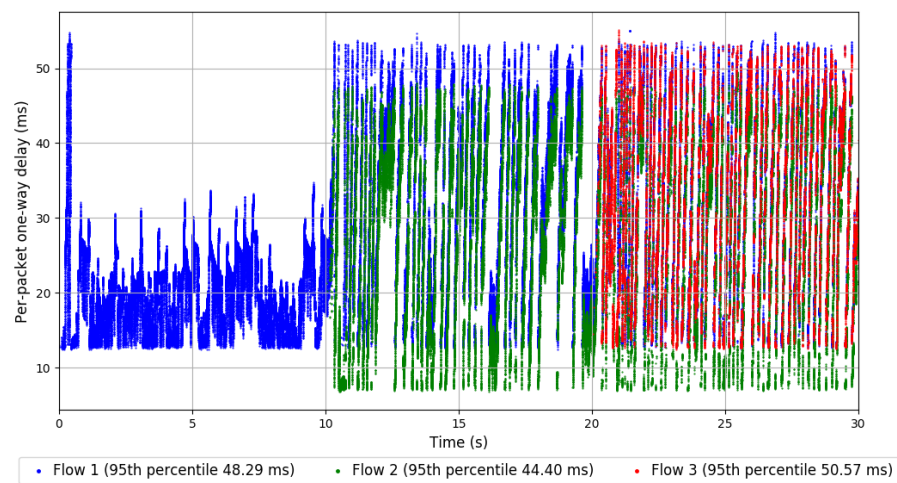
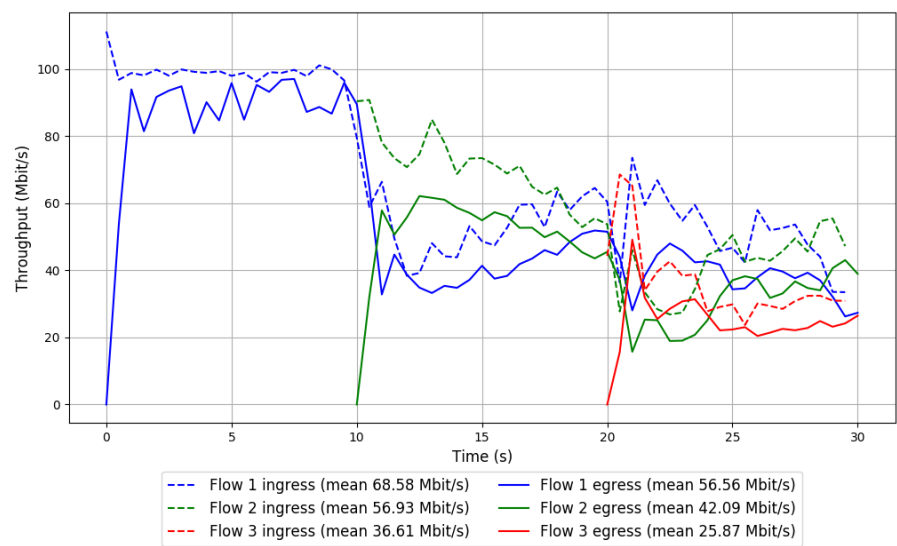


Run 7: Statistics of FillP-Sheep

Start at: 2018-08-22 04:33:11  
End at: 2018-08-22 04:33:41  
Local clock offset: 2.67 ms  
Remote clock offset: -63.944 ms

# Below is generated by plot.py at 2018-08-22 05:52:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.15 Mbit/s  
95th percentile per-packet one-way delay: 47.493 ms  
Loss rate: 21.42%  
-- Flow 1:  
Average throughput: 56.56 Mbit/s  
95th percentile per-packet one-way delay: 48.287 ms  
Loss rate: 17.49%  
-- Flow 2:  
Average throughput: 42.09 Mbit/s  
95th percentile per-packet one-way delay: 44.401 ms  
Loss rate: 26.04%  
-- Flow 3:  
Average throughput: 25.87 Mbit/s  
95th percentile per-packet one-way delay: 50.573 ms  
Loss rate: 29.20%

Run 7: Report of FillP-Sheep — Data Link



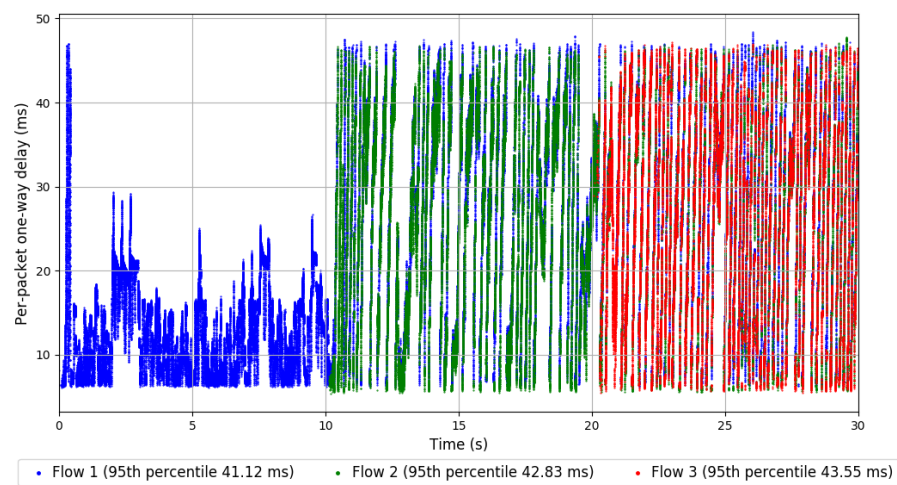
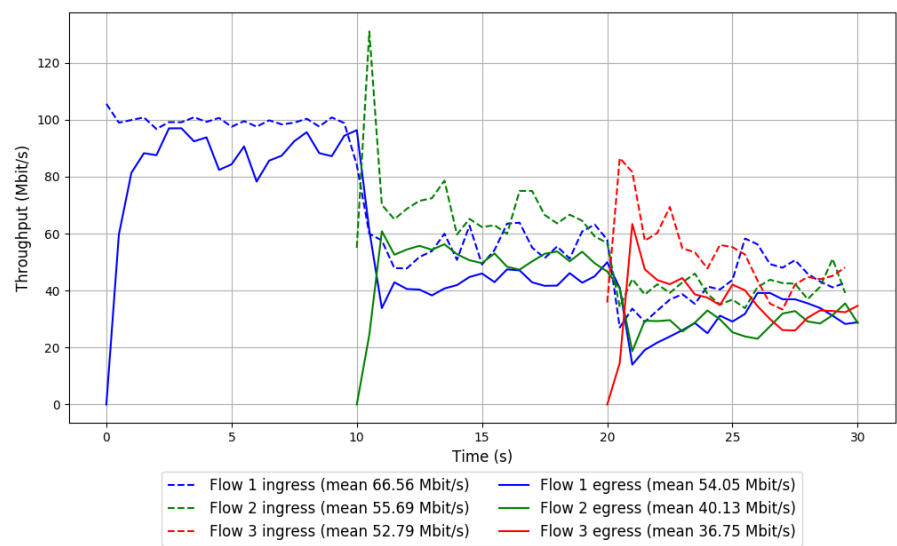
Run 8: Statistics of FillP-Sheep

Start at: 2018-08-22 04:52:40  
End at: 2018-08-22 04:53:10  
Local clock offset: 4.104 ms  
Remote clock offset: -62.865 ms

# Below is generated by plot.py at 2018-08-22 05:53:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.91 Mbit/s  
95th percentile per-packet one-way delay: 42.190 ms  
Loss rate: 23.23%  
-- Flow 1:  
Average throughput: 54.05 Mbit/s  
95th percentile per-packet one-way delay: 41.123 ms  
Loss rate: 18.75%  
-- Flow 2:  
Average throughput: 40.13 Mbit/s  
95th percentile per-packet one-way delay: 42.832 ms  
Loss rate: 27.90%  
-- Flow 3:  
Average throughput: 36.75 Mbit/s  
95th percentile per-packet one-way delay: 43.553 ms  
Loss rate: 30.39%



Run 8: Report of FillP-Sheep — Data Link

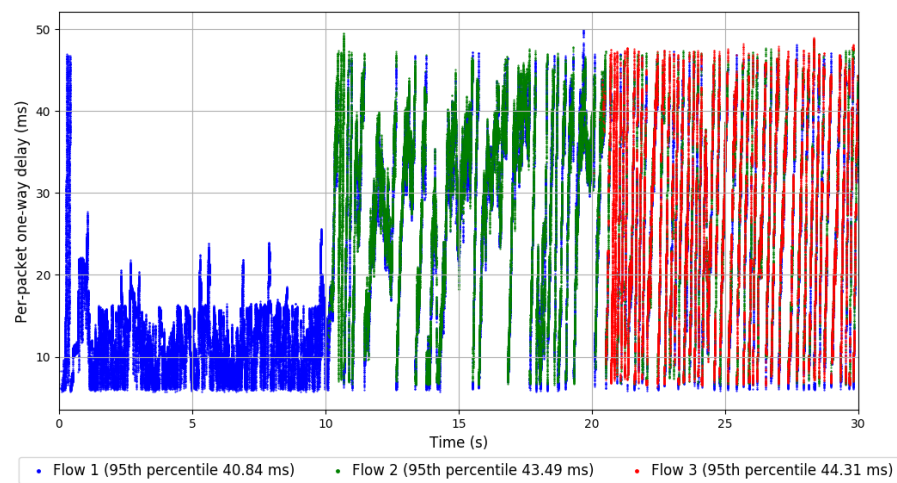
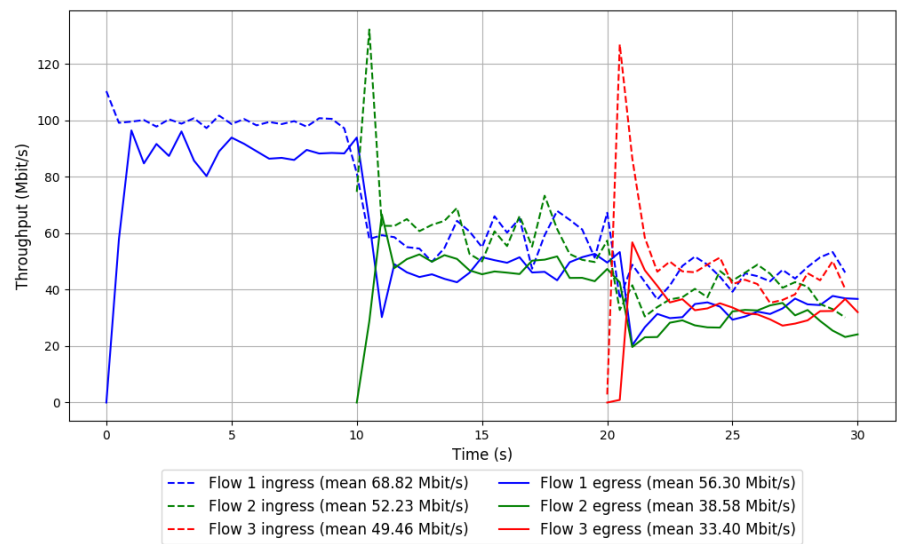


Run 9: Statistics of FillP-Sheep

Start at: 2018-08-22 05:12:17  
End at: 2018-08-22 05:12:47  
Local clock offset: 2.379 ms  
Remote clock offset: -63.491 ms

# Below is generated by plot.py at 2018-08-22 05:53:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.05 Mbit/s  
95th percentile per-packet one-way delay: 42.394 ms  
Loss rate: 22.35%  
-- Flow 1:  
Average throughput: 56.30 Mbit/s  
95th percentile per-packet one-way delay: 40.839 ms  
Loss rate: 18.10%  
-- Flow 2:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 43.490 ms  
Loss rate: 26.01%  
-- Flow 3:  
Average throughput: 33.40 Mbit/s  
95th percentile per-packet one-way delay: 44.313 ms  
Loss rate: 32.39%

Run 9: Report of FillP-Sheep — Data Link

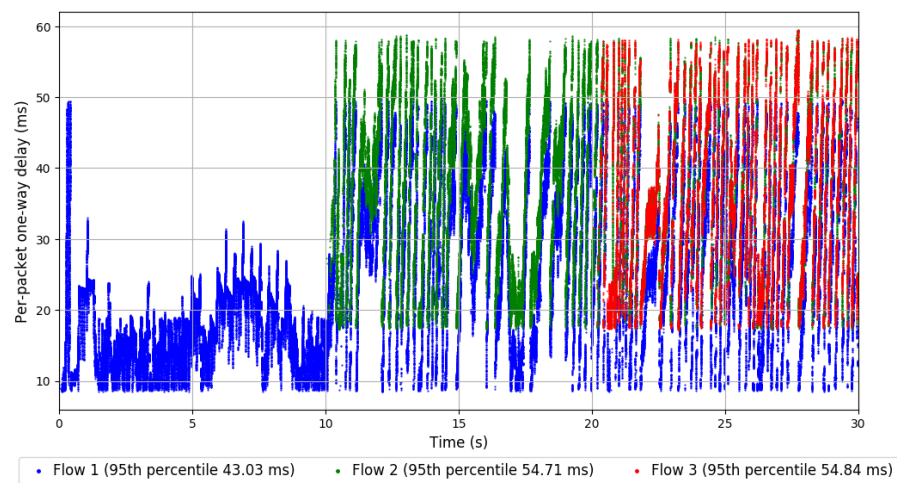
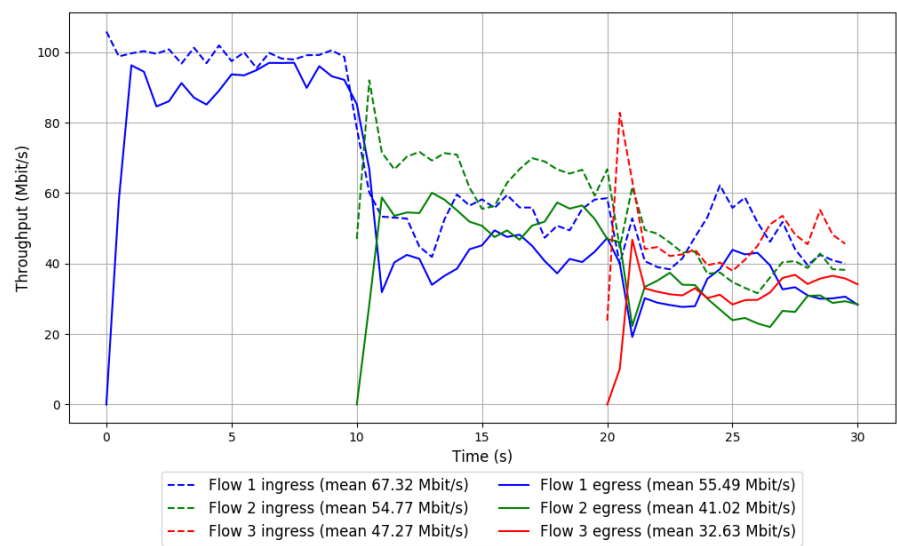


Run 10: Statistics of FillP-Sheep

Start at: 2018-08-22 05:31:58  
End at: 2018-08-22 05:32:28  
Local clock offset: -0.794 ms  
Remote clock offset: -60.393 ms

# Below is generated by plot.py at 2018-08-22 05:53:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.58 Mbit/s  
95th percentile per-packet one-way delay: 51.598 ms  
Loss rate: 21.65%  
-- Flow 1:  
Average throughput: 55.49 Mbit/s  
95th percentile per-packet one-way delay: 43.032 ms  
Loss rate: 17.56%  
-- Flow 2:  
Average throughput: 41.02 Mbit/s  
95th percentile per-packet one-way delay: 54.714 ms  
Loss rate: 25.14%  
-- Flow 3:  
Average throughput: 32.63 Mbit/s  
95th percentile per-packet one-way delay: 54.836 ms  
Loss rate: 31.08%

Run 10: Report of FillP-Sheep — Data Link

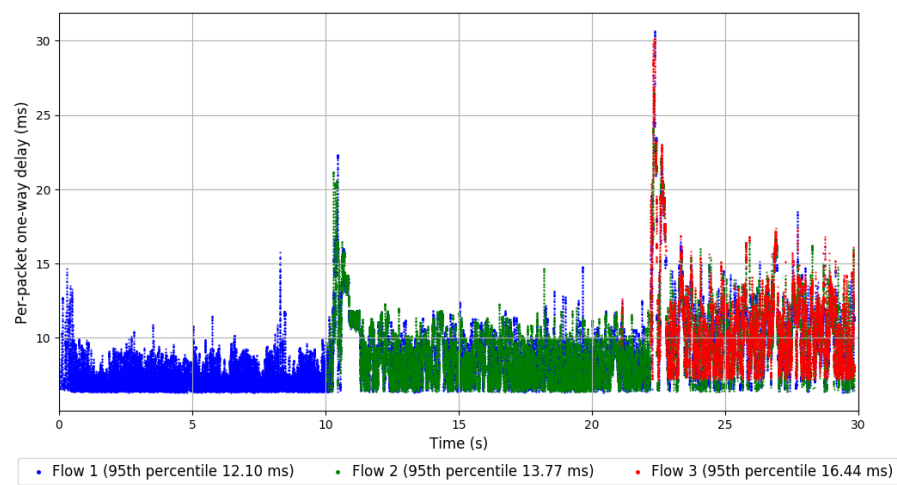
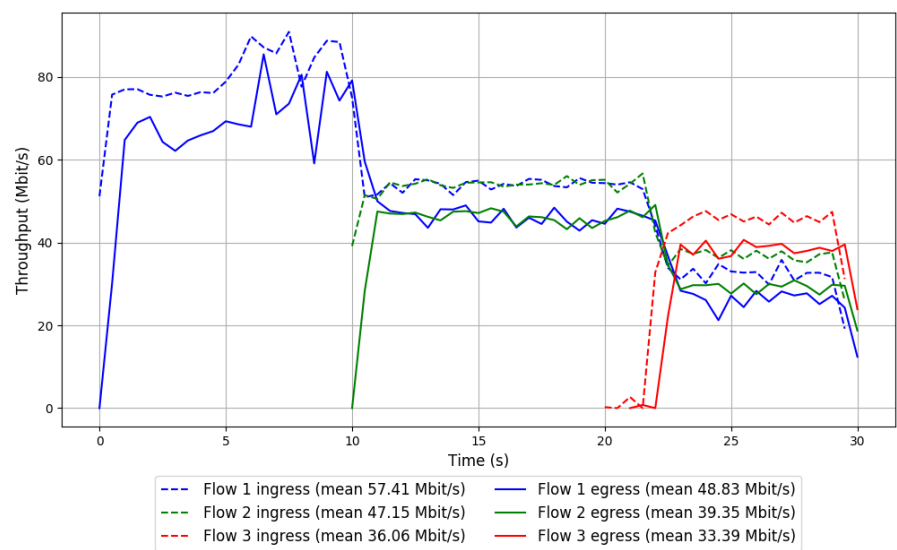


Run 1: Statistics of Indigo

Start at: 2018-08-22 02:44:41  
End at: 2018-08-22 02:45:11  
Local clock offset: 2.364 ms  
Remote clock offset: -60.408 ms

# Below is generated by plot.py at 2018-08-22 05:53:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.77 Mbit/s  
95th percentile per-packet one-way delay: 13.440 ms  
Loss rate: 15.67%  
-- Flow 1:  
Average throughput: 48.83 Mbit/s  
95th percentile per-packet one-way delay: 12.095 ms  
Loss rate: 14.94%  
-- Flow 2:  
Average throughput: 39.35 Mbit/s  
95th percentile per-packet one-way delay: 13.769 ms  
Loss rate: 16.55%  
-- Flow 3:  
Average throughput: 33.39 Mbit/s  
95th percentile per-packet one-way delay: 16.442 ms  
Loss rate: 16.90%

Run 1: Report of Indigo — Data Link



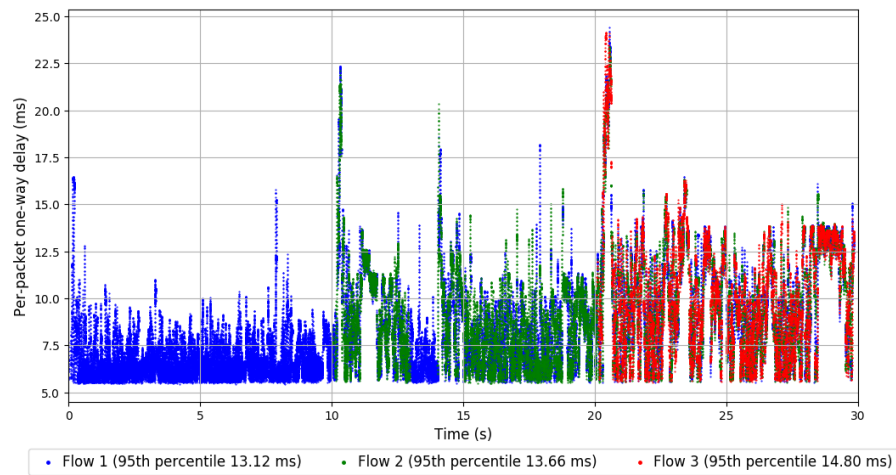
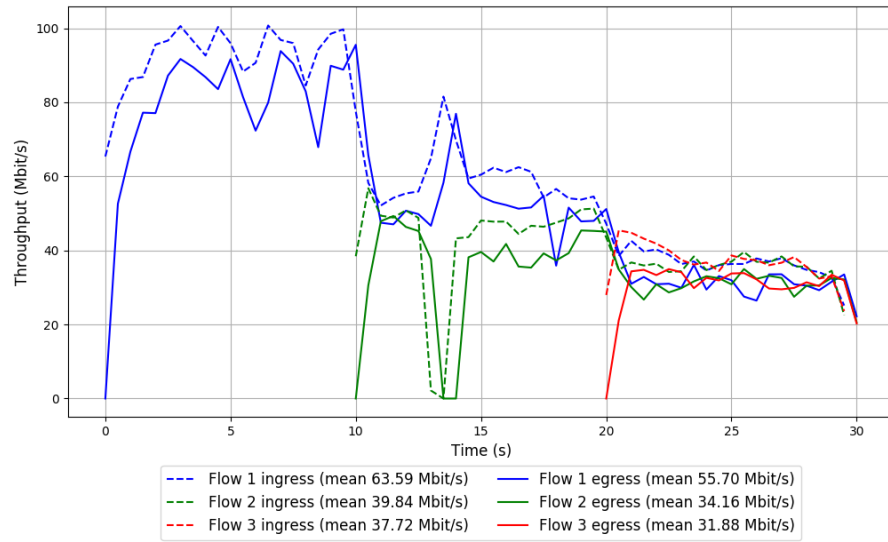
Run 2: Statistics of Indigo

Start at: 2018-08-22 03:04:13  
End at: 2018-08-22 03:04:43  
Local clock offset: -3.147 ms  
Remote clock offset: -68.406 ms

# Below is generated by plot.py at 2018-08-22 05:53:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.79 Mbit/s  
95th percentile per-packet one-way delay: 13.553 ms  
Loss rate: 13.23%  
-- Flow 1:  
Average throughput: 55.70 Mbit/s  
95th percentile per-packet one-way delay: 13.119 ms  
Loss rate: 12.39%  
-- Flow 2:  
Average throughput: 34.16 Mbit/s  
95th percentile per-packet one-way delay: 13.656 ms  
Loss rate: 14.23%  
-- Flow 3:  
Average throughput: 31.88 Mbit/s  
95th percentile per-packet one-way delay: 14.802 ms  
Loss rate: 15.46%



## Run 2: Report of Indigo — Data Link

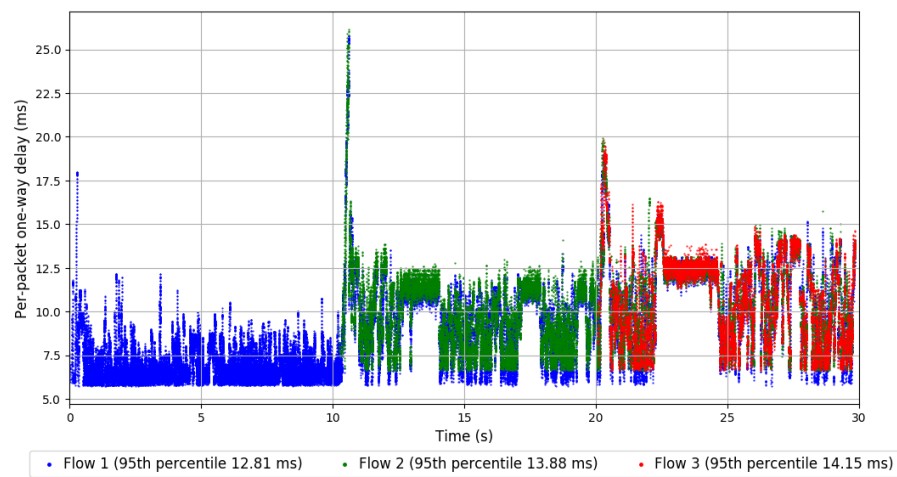
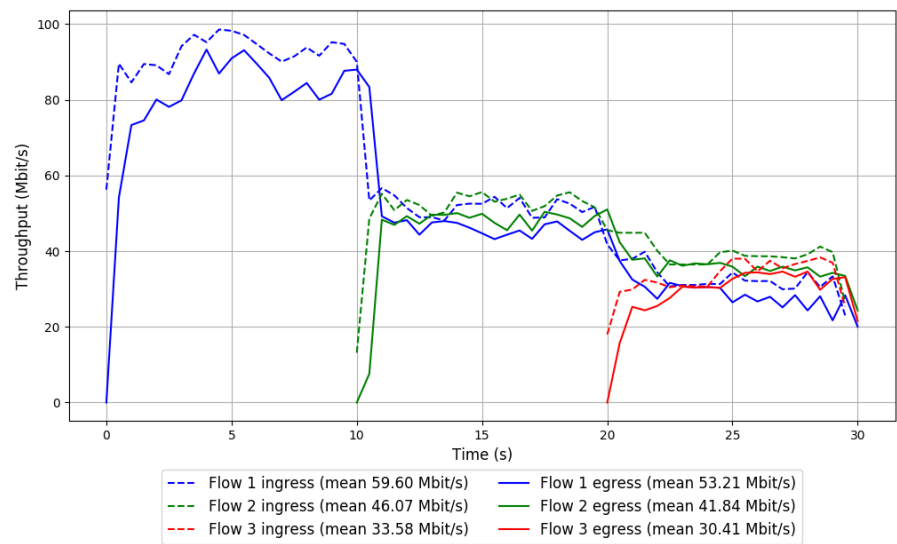


Run 3: Statistics of Indigo

Start at: 2018-08-22 03:23:54  
End at: 2018-08-22 03:24:24  
Local clock offset: 1.358 ms  
Remote clock offset: -63.031 ms

# Below is generated by plot.py at 2018-08-22 05:53:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.61 Mbit/s  
95th percentile per-packet one-way delay: 13.640 ms  
Loss rate: 10.09%  
-- Flow 1:  
Average throughput: 53.21 Mbit/s  
95th percentile per-packet one-way delay: 12.811 ms  
Loss rate: 10.70%  
-- Flow 2:  
Average throughput: 41.84 Mbit/s  
95th percentile per-packet one-way delay: 13.883 ms  
Loss rate: 9.15%  
-- Flow 3:  
Average throughput: 30.41 Mbit/s  
95th percentile per-packet one-way delay: 14.147 ms  
Loss rate: 9.39%

Run 3: Report of Indigo — Data Link

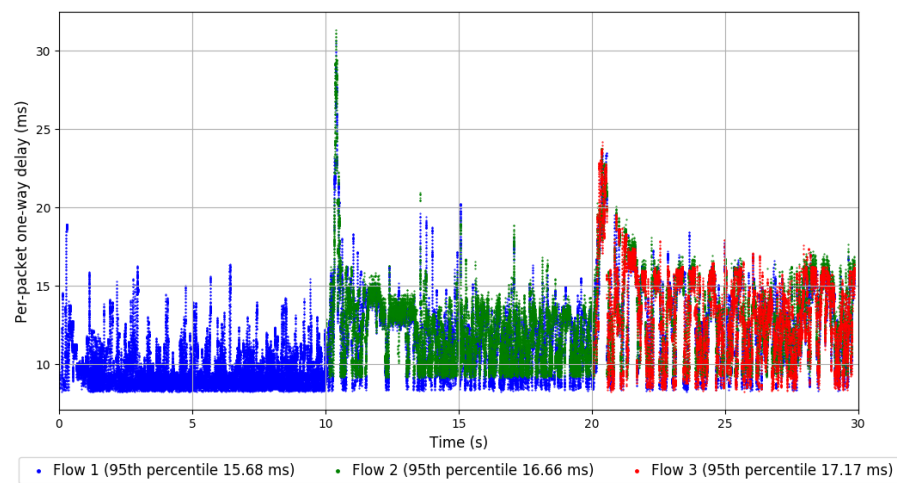
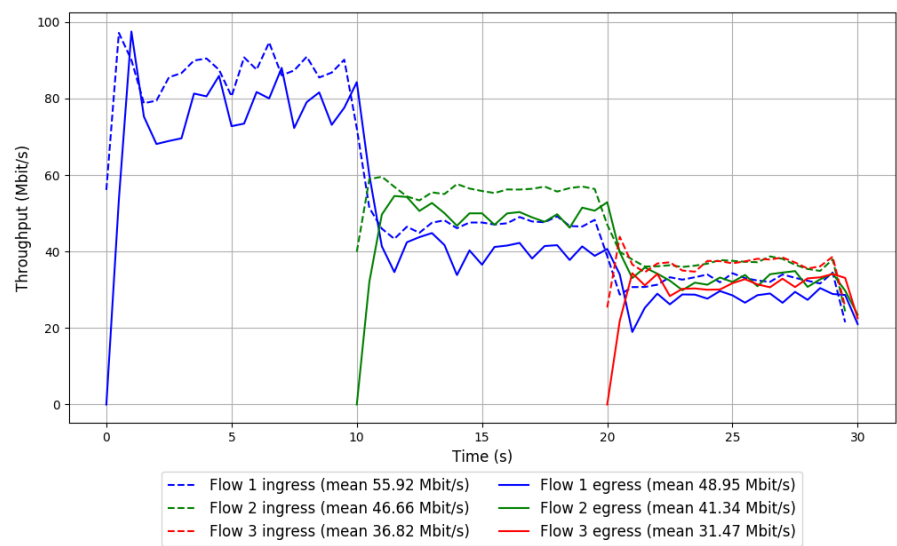


Run 4: Statistics of Indigo

Start at: 2018-08-22 03:43:46  
End at: 2018-08-22 03:44:16  
Local clock offset: -0.87 ms  
Remote clock offset: -62.992 ms

# Below is generated by plot.py at 2018-08-22 05:53:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.73 Mbit/s  
95th percentile per-packet one-way delay: 16.114 ms  
Loss rate: 12.35%  
-- Flow 1:  
Average throughput: 48.95 Mbit/s  
95th percentile per-packet one-way delay: 15.682 ms  
Loss rate: 12.43%  
-- Flow 2:  
Average throughput: 41.34 Mbit/s  
95th percentile per-packet one-way delay: 16.662 ms  
Loss rate: 11.38%  
-- Flow 3:  
Average throughput: 31.47 Mbit/s  
95th percentile per-packet one-way delay: 17.172 ms  
Loss rate: 14.47%

Run 4: Report of Indigo — Data Link

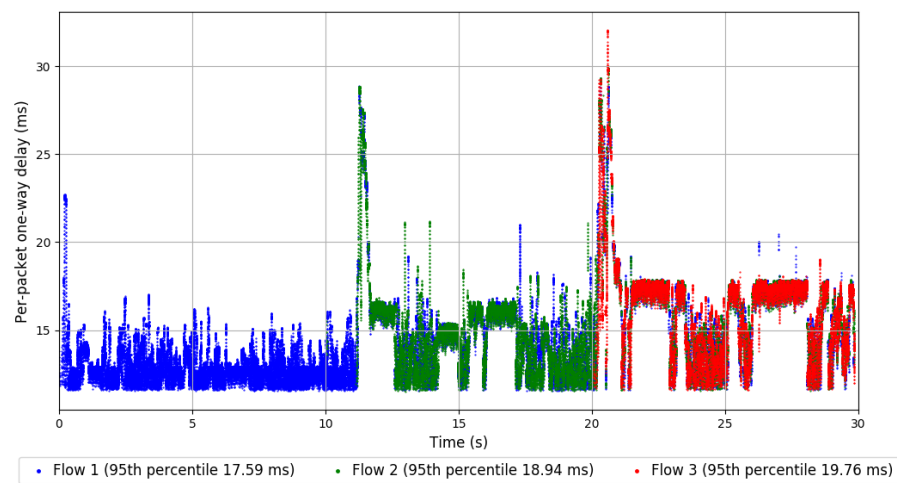
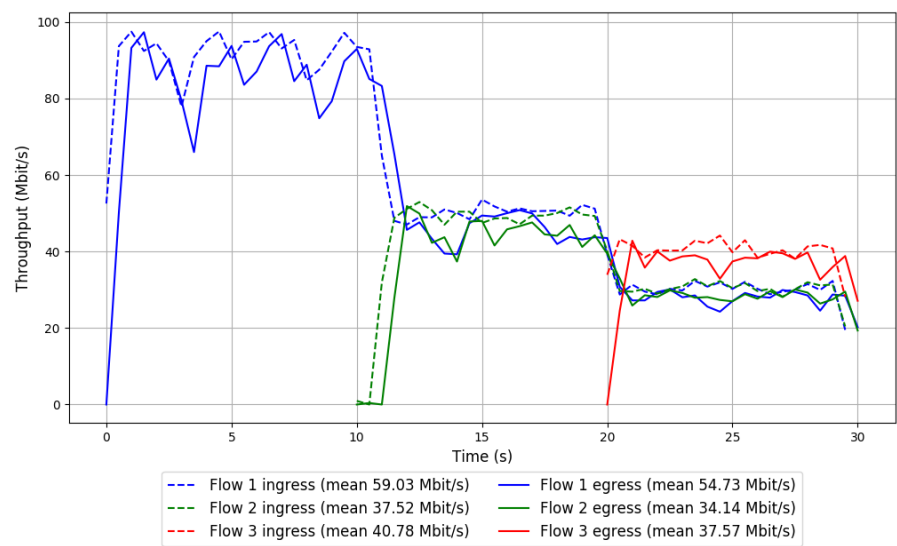


Run 5: Statistics of Indigo

Start at: 2018-08-22 04:03:17  
End at: 2018-08-22 04:03:47  
Local clock offset: 4.173 ms  
Remote clock offset: -62.298 ms

# Below is generated by plot.py at 2018-08-22 05:54:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.69 Mbit/s  
95th percentile per-packet one-way delay: 17.824 ms  
Loss rate: 7.80%  
-- Flow 1:  
Average throughput: 54.73 Mbit/s  
95th percentile per-packet one-way delay: 17.585 ms  
Loss rate: 7.27%  
-- Flow 2:  
Average throughput: 34.14 Mbit/s  
95th percentile per-packet one-way delay: 18.939 ms  
Loss rate: 9.02%  
-- Flow 3:  
Average throughput: 37.57 Mbit/s  
95th percentile per-packet one-way delay: 19.764 ms  
Loss rate: 7.88%

Run 5: Report of Indigo — Data Link



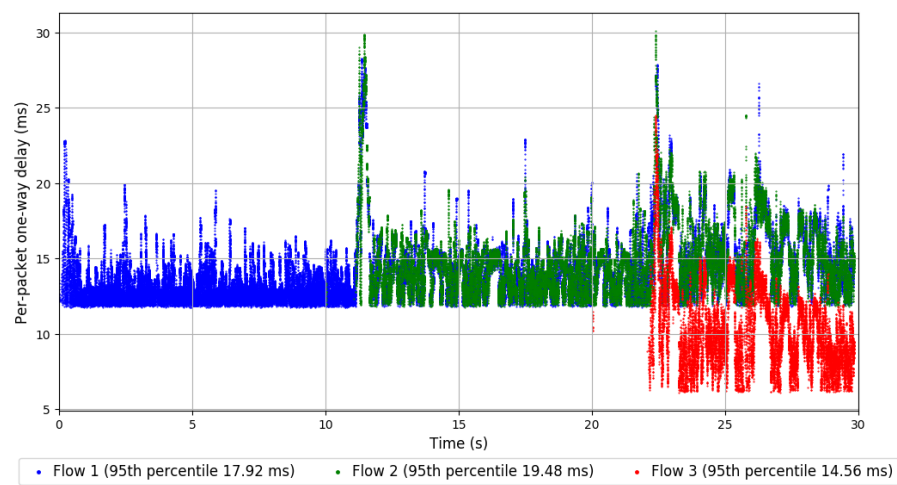
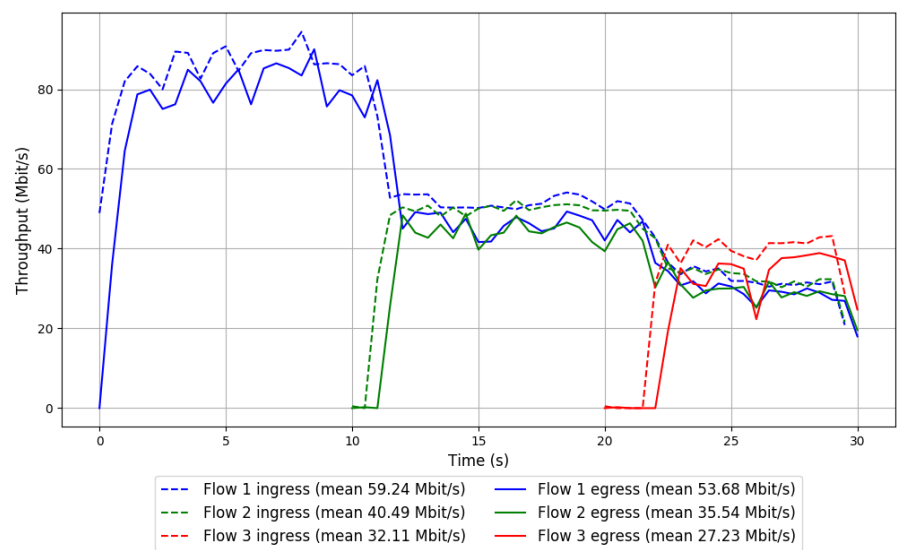
Run 6: Statistics of Indigo

Start at: 2018-08-22 04:22:50  
End at: 2018-08-22 04:23:20  
Local clock offset: 3.354 ms  
Remote clock offset: -63.713 ms

# Below is generated by plot.py at 2018-08-22 05:54:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.21 Mbit/s  
95th percentile per-packet one-way delay: 18.318 ms  
Loss rate: 10.81%  
-- Flow 1:  
Average throughput: 53.68 Mbit/s  
95th percentile per-packet one-way delay: 17.918 ms  
Loss rate: 9.39%  
-- Flow 2:  
Average throughput: 35.54 Mbit/s  
95th percentile per-packet one-way delay: 19.484 ms  
Loss rate: 12.22%  
-- Flow 3:  
Average throughput: 27.23 Mbit/s  
95th percentile per-packet one-way delay: 14.557 ms  
Loss rate: 15.22%



Run 6: Report of Indigo — Data Link

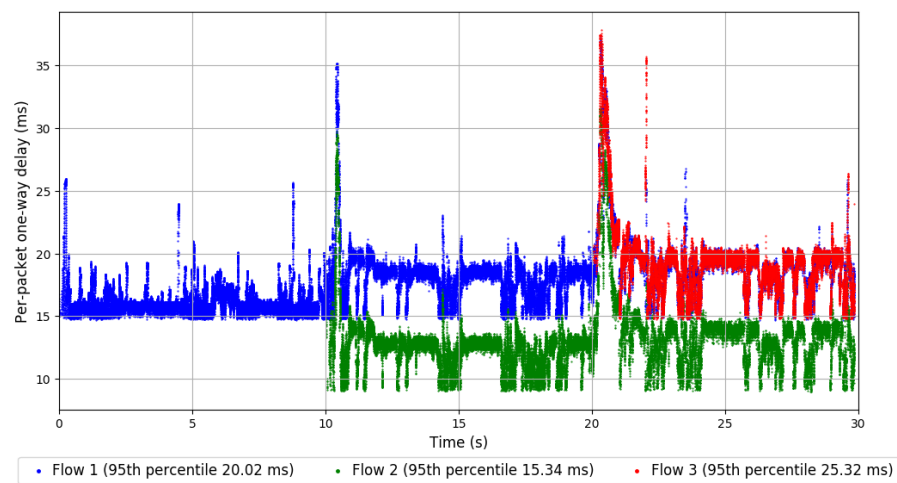
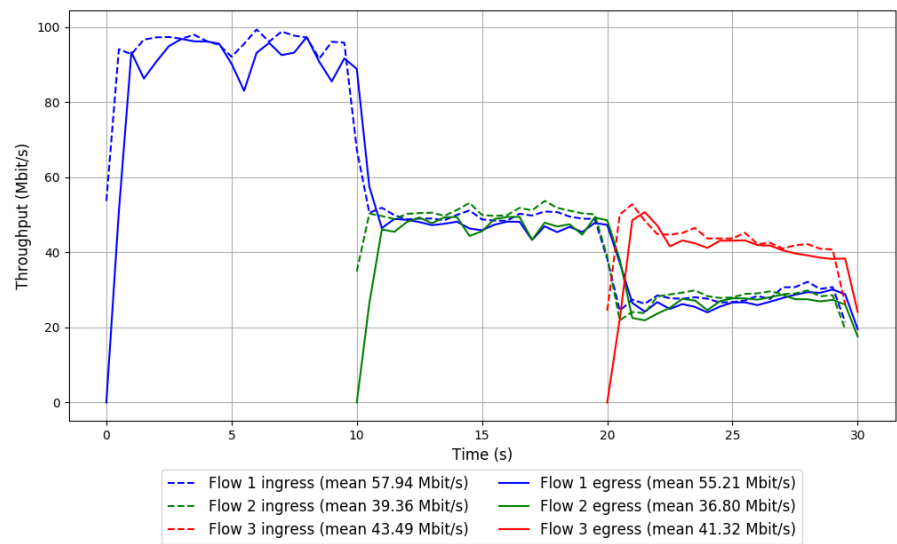


Run 7: Statistics of Indigo

Start at: 2018-08-22 04:42:25  
End at: 2018-08-22 04:42:55  
Local clock offset: 0.431 ms  
Remote clock offset: -64.576 ms

# Below is generated by plot.py at 2018-08-22 05:54:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.16 Mbit/s  
95th percentile per-packet one-way delay: 20.370 ms  
Loss rate: 5.23%  
-- Flow 1:  
Average throughput: 55.21 Mbit/s  
95th percentile per-packet one-way delay: 20.022 ms  
Loss rate: 4.71%  
-- Flow 2:  
Average throughput: 36.80 Mbit/s  
95th percentile per-packet one-way delay: 15.341 ms  
Loss rate: 6.51%  
-- Flow 3:  
Average throughput: 41.32 Mbit/s  
95th percentile per-packet one-way delay: 25.323 ms  
Loss rate: 4.96%

Run 7: Report of Indigo — Data Link

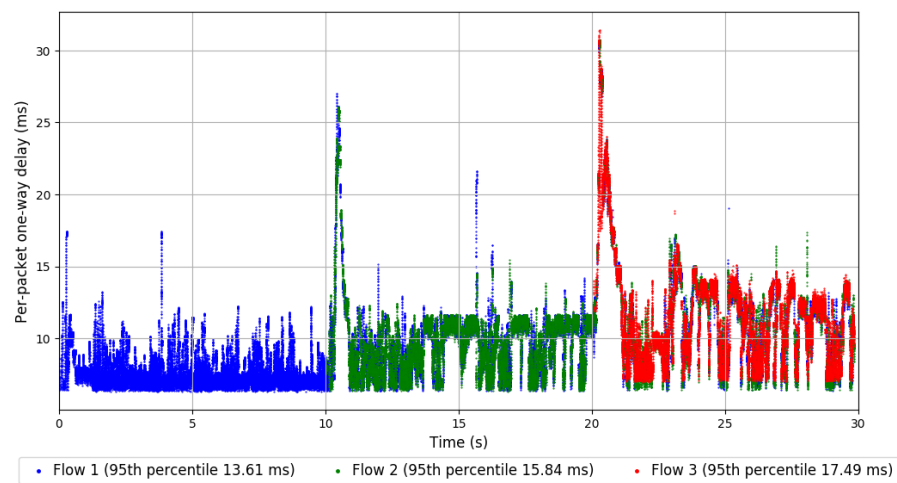
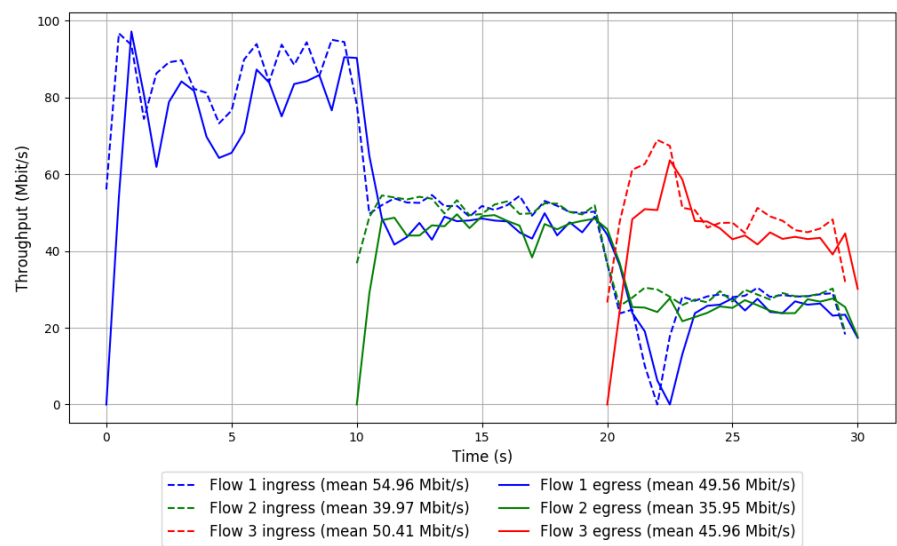


Run 8: Statistics of Indigo

Start at: 2018-08-22 05:01:58  
End at: 2018-08-22 05:02:28  
Local clock offset: 2.582 ms  
Remote clock offset: -63.483 ms

# Below is generated by plot.py at 2018-08-22 05:54:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.47 Mbit/s  
95th percentile per-packet one-way delay: 14.767 ms  
Loss rate: 9.71%  
-- Flow 1:  
Average throughput: 49.56 Mbit/s  
95th percentile per-packet one-way delay: 13.608 ms  
Loss rate: 9.82%  
-- Flow 2:  
Average throughput: 35.95 Mbit/s  
95th percentile per-packet one-way delay: 15.843 ms  
Loss rate: 10.03%  
-- Flow 3:  
Average throughput: 45.96 Mbit/s  
95th percentile per-packet one-way delay: 17.491 ms  
Loss rate: 8.86%

Run 8: Report of Indigo — Data Link

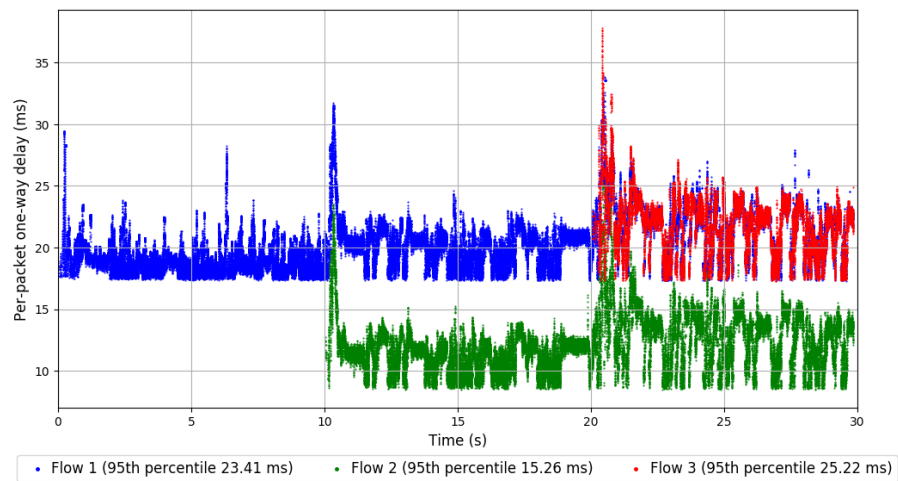
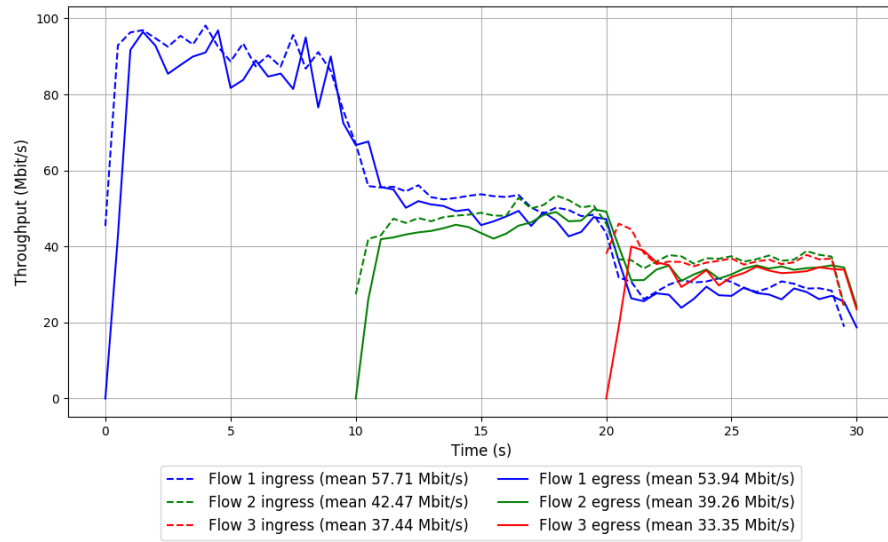


Run 9: Statistics of Indigo

Start at: 2018-08-22 05:21:39  
End at: 2018-08-22 05:22:09  
Local clock offset: -0.481 ms  
Remote clock offset: -61.952 ms

# Below is generated by plot.py at 2018-08-22 05:54:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.91 Mbit/s  
95th percentile per-packet one-way delay: 23.591 ms  
Loss rate: 7.41%  
-- Flow 1:  
Average throughput: 53.94 Mbit/s  
95th percentile per-packet one-way delay: 23.415 ms  
Loss rate: 6.59%  
-- Flow 2:  
Average throughput: 39.26 Mbit/s  
95th percentile per-packet one-way delay: 15.264 ms  
Loss rate: 7.56%  
-- Flow 3:  
Average throughput: 33.35 Mbit/s  
95th percentile per-packet one-way delay: 25.224 ms  
Loss rate: 10.93%

# Run 9: Report of Indigo — Data Link



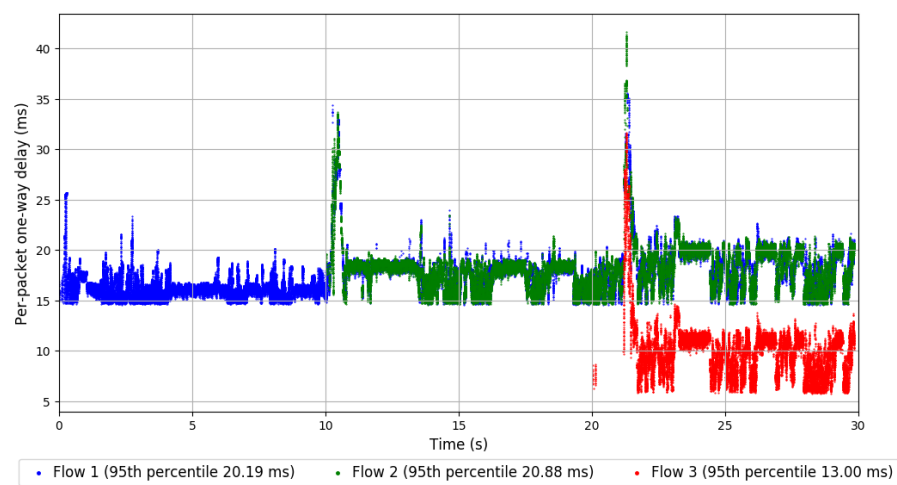
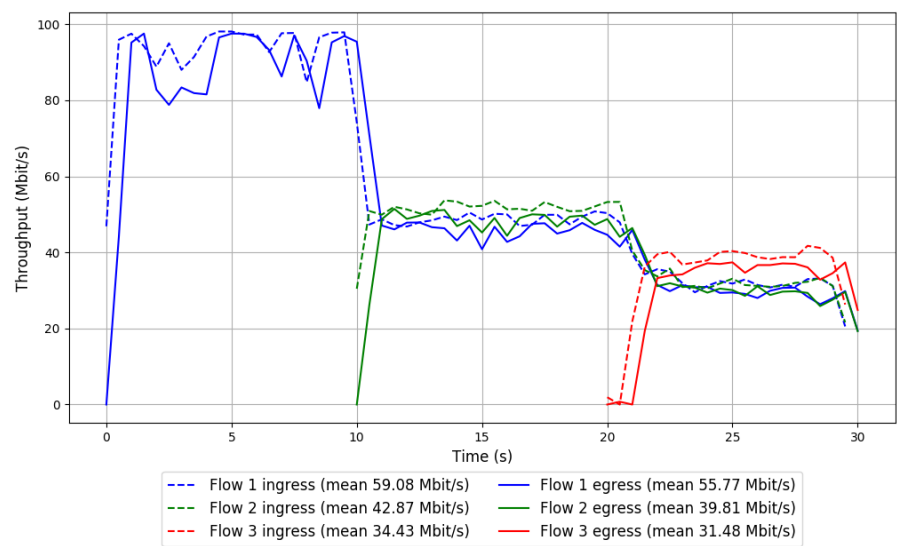
Run 10: Statistics of Indigo

Start at: 2018-08-22 05:41:14  
End at: 2018-08-22 05:41:44  
Local clock offset: 1.845 ms  
Remote clock offset: -59.108 ms

# Below is generated by plot.py at 2018-08-22 05:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.53 Mbit/s  
95th percentile per-packet one-way delay: 20.369 ms  
Loss rate: 6.38%  
-- Flow 1:  
Average throughput: 55.77 Mbit/s  
95th percentile per-packet one-way delay: 20.186 ms  
Loss rate: 5.61%  
-- Flow 2:  
Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 20.878 ms  
Loss rate: 7.13%  
-- Flow 3:  
Average throughput: 31.48 Mbit/s  
95th percentile per-packet one-way delay: 12.999 ms  
Loss rate: 8.54%



Run 10: Report of Indigo — Data Link

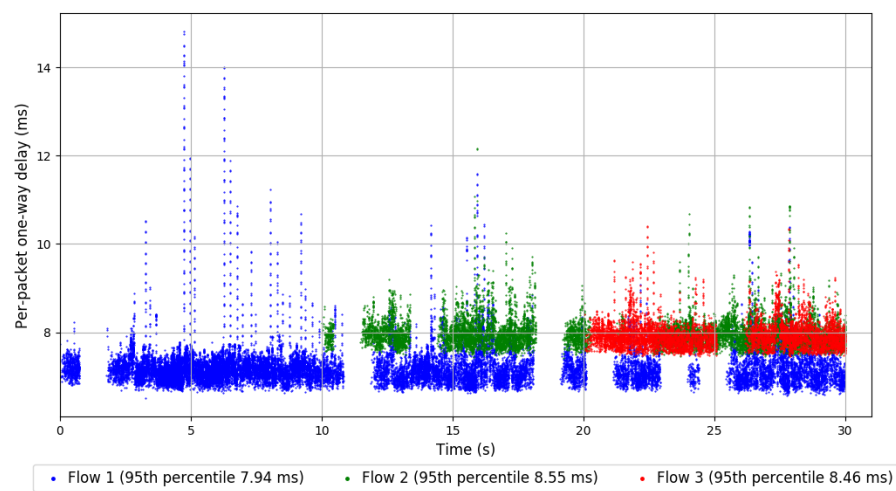
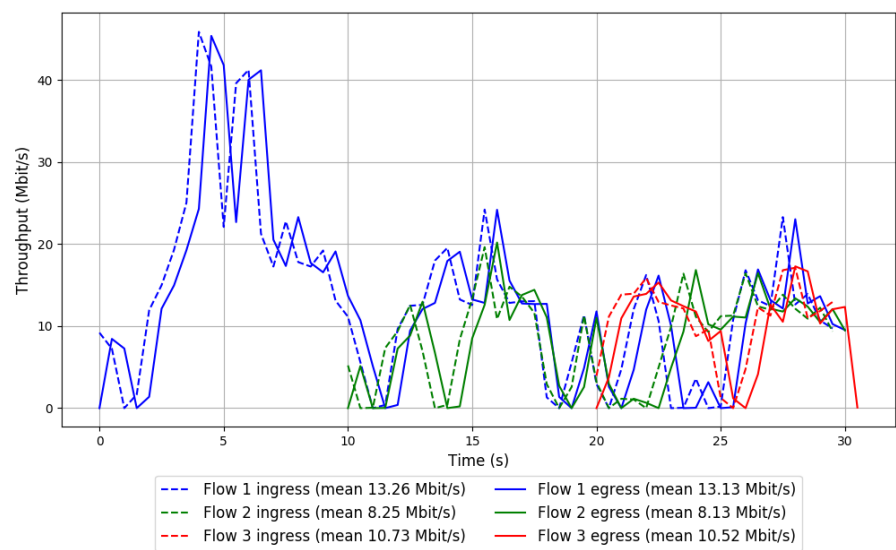


Run 1: Statistics of LEDBAT

Start at: 2018-08-22 02:37:48  
End at: 2018-08-22 02:38:18  
Local clock offset: 2.175 ms  
Remote clock offset: -60.983 ms

# Below is generated by plot.py at 2018-08-22 05:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 22.04 Mbit/s  
95th percentile per-packet one-way delay: 8.320 ms  
Loss rate: 1.23%  
-- Flow 1:  
Average throughput: 13.13 Mbit/s  
95th percentile per-packet one-way delay: 7.937 ms  
Loss rate: 0.92%  
-- Flow 2:  
Average throughput: 8.13 Mbit/s  
95th percentile per-packet one-way delay: 8.552 ms  
Loss rate: 1.47%  
-- Flow 3:  
Average throughput: 10.52 Mbit/s  
95th percentile per-packet one-way delay: 8.462 ms  
Loss rate: 2.02%

Run 1: Report of LEDBAT — Data Link

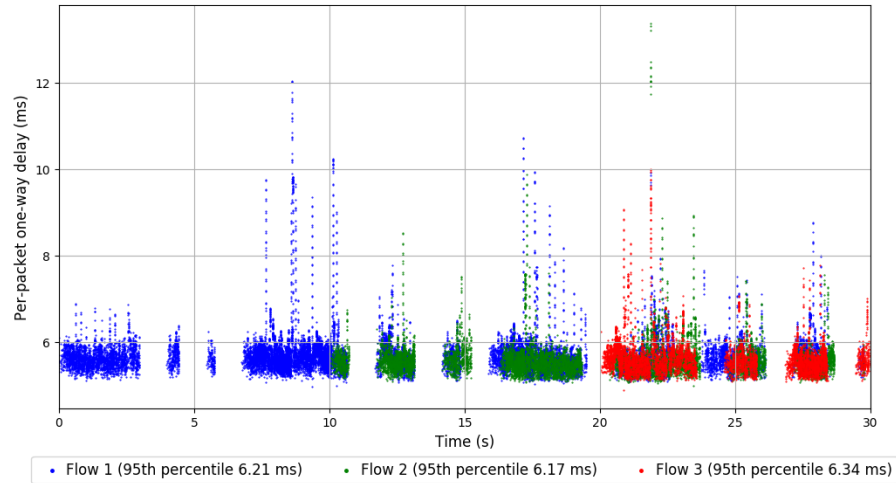
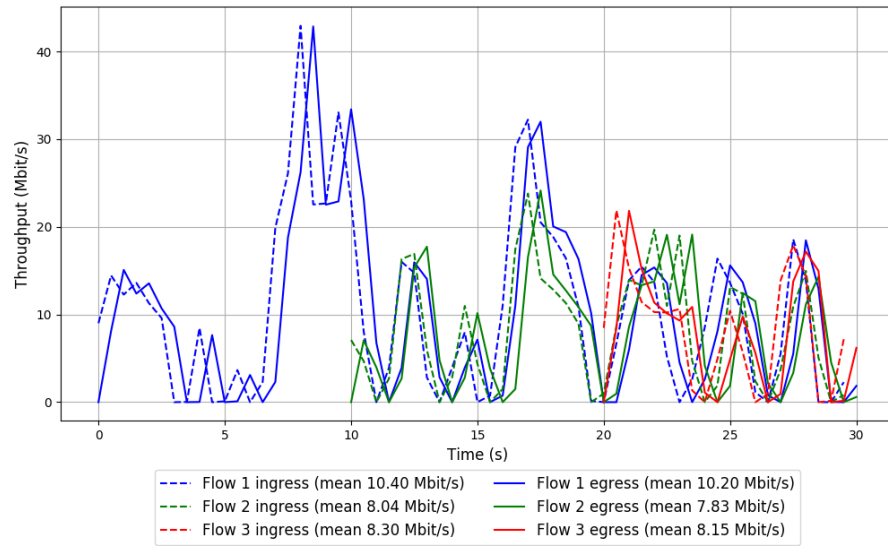


Run 2: Statistics of LEDBAT

Start at: 2018-08-22 02:57:20  
End at: 2018-08-22 02:57:50  
Local clock offset: 4.11 ms  
Remote clock offset: -59.182 ms

# Below is generated by plot.py at 2018-08-22 05:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 18.01 Mbit/s  
95th percentile per-packet one-way delay: 6.211 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 10.20 Mbit/s  
95th percentile per-packet one-way delay: 6.208 ms  
Loss rate: 2.00%  
-- Flow 2:  
Average throughput: 7.83 Mbit/s  
95th percentile per-packet one-way delay: 6.168 ms  
Loss rate: 2.76%  
-- Flow 3:  
Average throughput: 8.15 Mbit/s  
95th percentile per-packet one-way delay: 6.342 ms  
Loss rate: 2.05%

## Run 2: Report of LEDBAT — Data Link

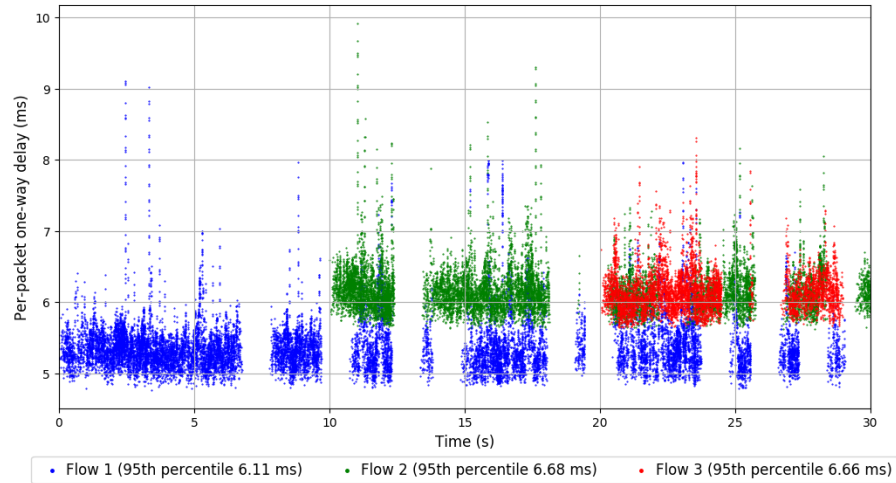
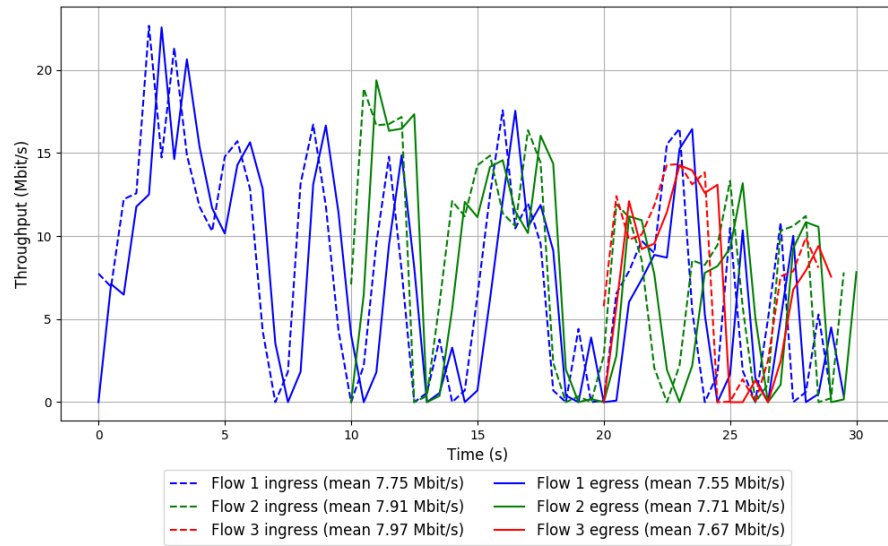


Run 3: Statistics of LEDBAT

Start at: 2018-08-22 03:16:52  
End at: 2018-08-22 03:17:22  
Local clock offset: 2.665 ms  
Remote clock offset: -62.694 ms

# Below is generated by plot.py at 2018-08-22 05:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 14.74 Mbit/s  
95th percentile per-packet one-way delay: 6.538 ms  
Loss rate: 2.77%  
-- Flow 1:  
Average throughput: 7.55 Mbit/s  
95th percentile per-packet one-way delay: 6.107 ms  
Loss rate: 2.64%  
-- Flow 2:  
Average throughput: 7.71 Mbit/s  
95th percentile per-packet one-way delay: 6.682 ms  
Loss rate: 2.49%  
-- Flow 3:  
Average throughput: 7.67 Mbit/s  
95th percentile per-packet one-way delay: 6.663 ms  
Loss rate: 3.78%

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



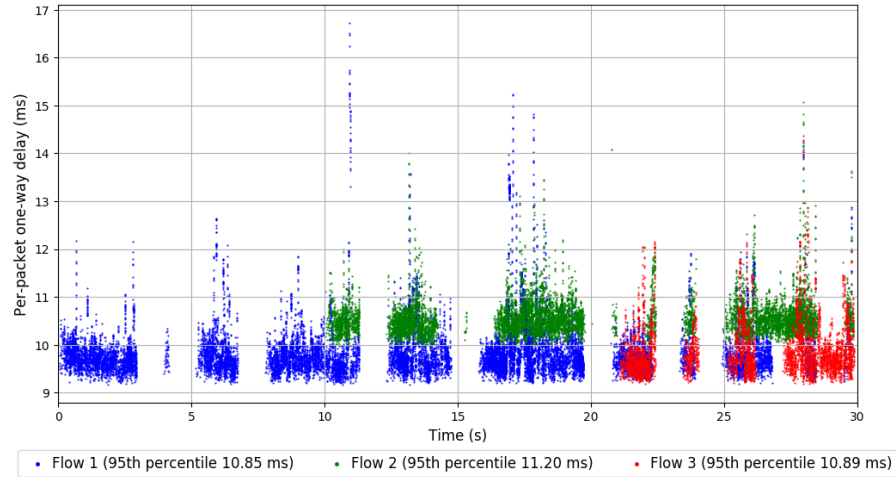
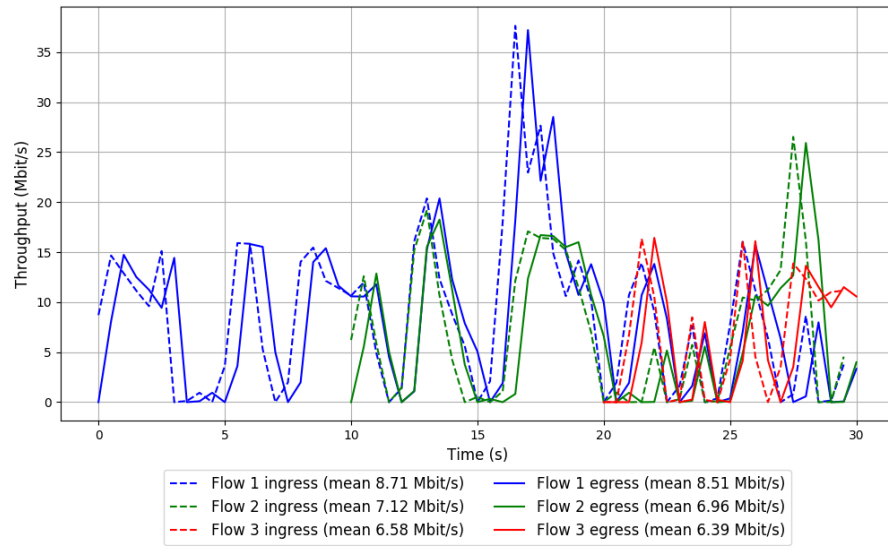
Run 4: Statistics of LEDBAT

Start at: 2018-08-22 03:36:31  
End at: 2018-08-22 03:37:01  
Local clock offset: -2.323 ms  
Remote clock offset: -62.561 ms

# Below is generated by plot.py at 2018-08-22 05:54:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 15.22 Mbit/s  
95th percentile per-packet one-way delay: 11.020 ms  
Loss rate: 2.46%  
-- Flow 1:  
Average throughput: 8.51 Mbit/s  
95th percentile per-packet one-way delay: 10.849 ms  
Loss rate: 2.35%  
-- Flow 2:  
Average throughput: 6.96 Mbit/s  
95th percentile per-packet one-way delay: 11.204 ms  
Loss rate: 2.38%  
-- Flow 3:  
Average throughput: 6.39 Mbit/s  
95th percentile per-packet one-way delay: 10.888 ms  
Loss rate: 3.10%



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

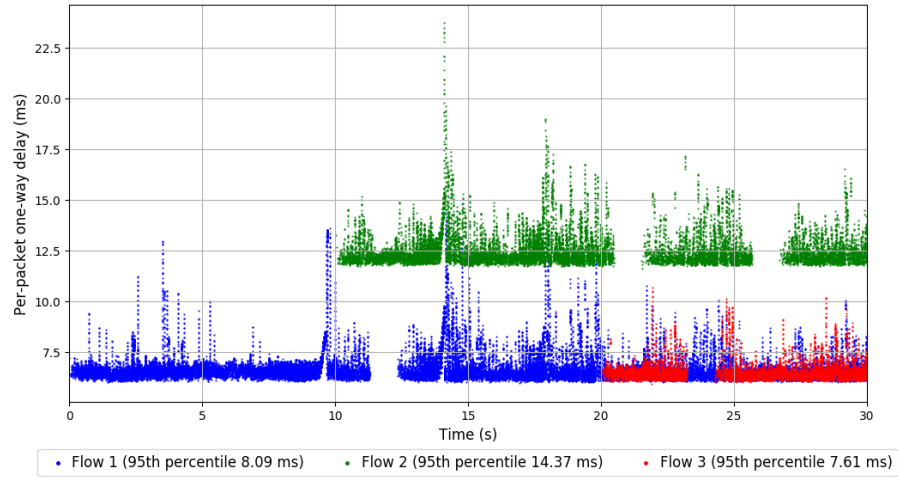
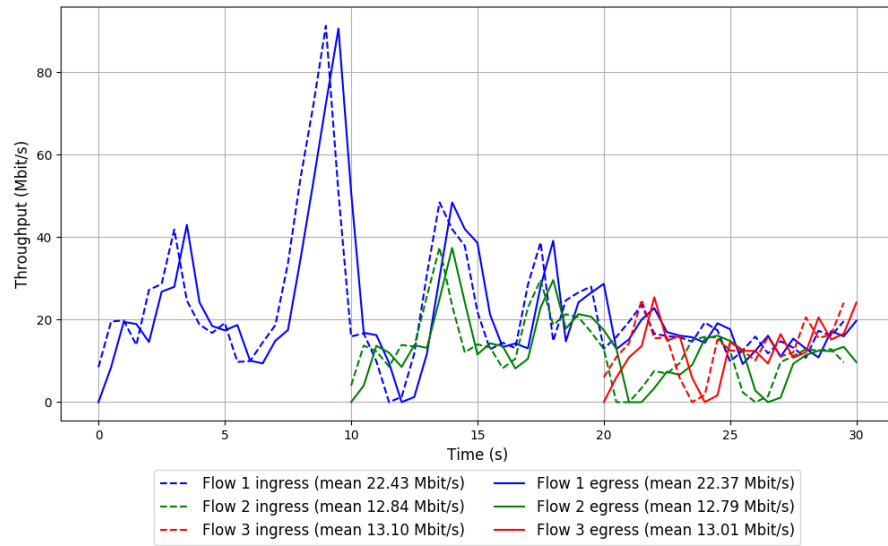


Run 5: Statistics of LEDBAT

Start at: 2018-08-22 03:56:19  
End at: 2018-08-22 03:56:49  
Local clock offset: 4.154 ms  
Remote clock offset: -61.827 ms

# Below is generated by plot.py at 2018-08-22 05:54:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.21 Mbit/s  
95th percentile per-packet one-way delay: 13.001 ms  
Loss rate: 0.34%  
-- Flow 1:  
Average throughput: 22.37 Mbit/s  
95th percentile per-packet one-way delay: 8.086 ms  
Loss rate: 0.27%  
-- Flow 2:  
Average throughput: 12.79 Mbit/s  
95th percentile per-packet one-way delay: 14.365 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 13.01 Mbit/s  
95th percentile per-packet one-way delay: 7.610 ms  
Loss rate: 0.64%

## Run 5: Report of LEDBAT — Data Link

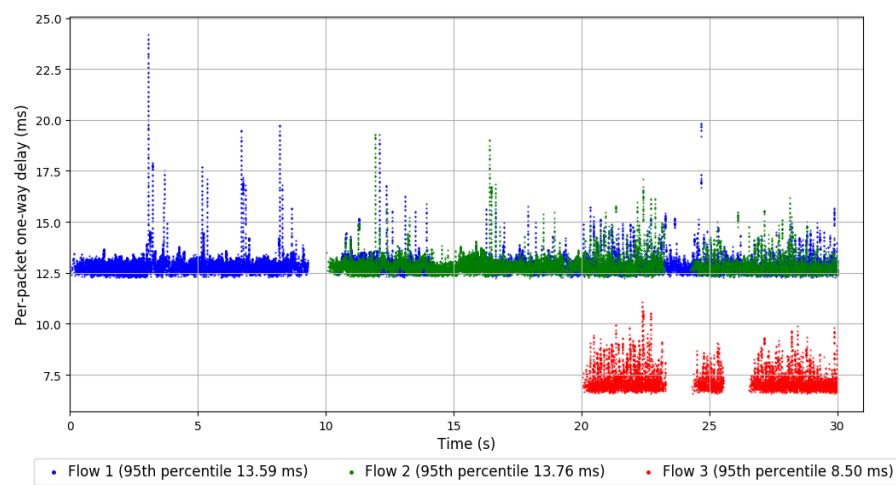
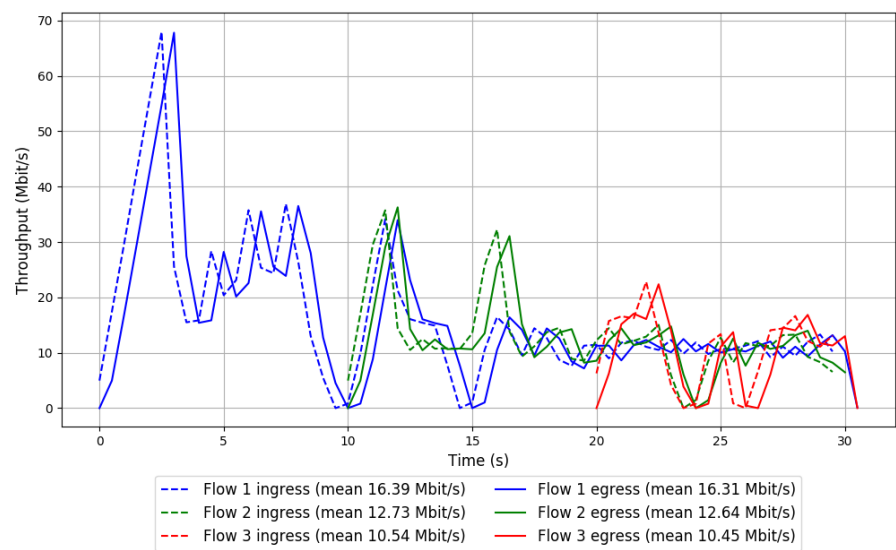


Run 6: Statistics of LEDBAT

Start at: 2018-08-22 04:15:52  
End at: 2018-08-22 04:16:22  
Local clock offset: 3.268 ms  
Remote clock offset: -62.941 ms

# Below is generated by plot.py at 2018-08-22 05:54:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 28.21 Mbit/s  
95th percentile per-packet one-way delay: 13.570 ms  
Loss rate: 0.59%  
-- Flow 1:  
Average throughput: 16.31 Mbit/s  
95th percentile per-packet one-way delay: 13.594 ms  
Loss rate: 0.51%  
-- Flow 2:  
Average throughput: 12.64 Mbit/s  
95th percentile per-packet one-way delay: 13.760 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 10.45 Mbit/s  
95th percentile per-packet one-way delay: 8.498 ms  
Loss rate: 0.79%

Run 6: Report of LEDBAT — Data Link

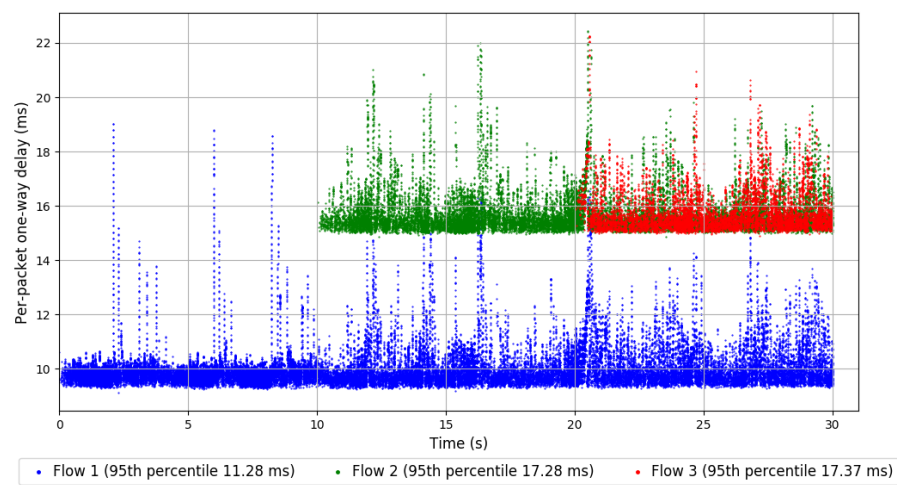
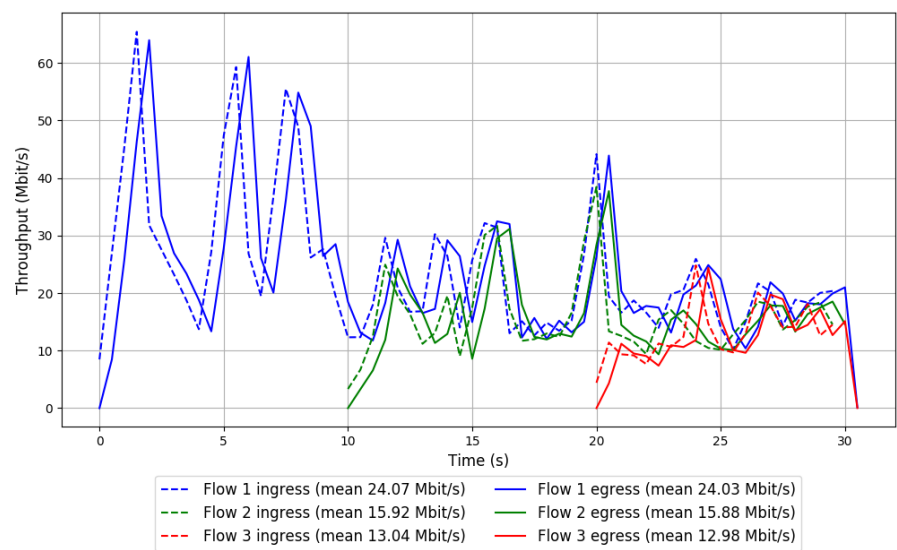


Run 7: Statistics of LEDBAT

Start at: 2018-08-22 04:35:28  
End at: 2018-08-22 04:35:58  
Local clock offset: -0.115 ms  
Remote clock offset: -64.464 ms

# Below is generated by plot.py at 2018-08-22 05:54:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.91 Mbit/s  
95th percentile per-packet one-way delay: 16.456 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 24.03 Mbit/s  
95th percentile per-packet one-way delay: 11.283 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 15.88 Mbit/s  
95th percentile per-packet one-way delay: 17.283 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 12.98 Mbit/s  
95th percentile per-packet one-way delay: 17.374 ms  
Loss rate: 0.49%

Run 7: Report of LEDBAT — Data Link



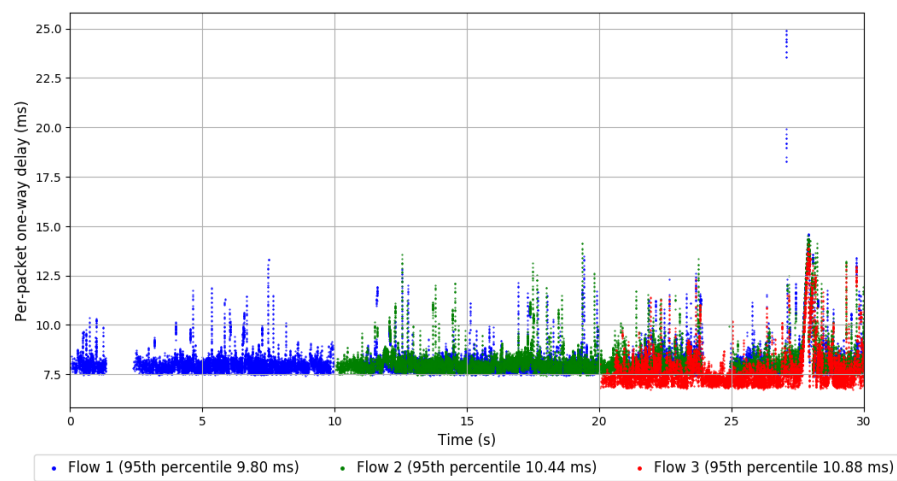
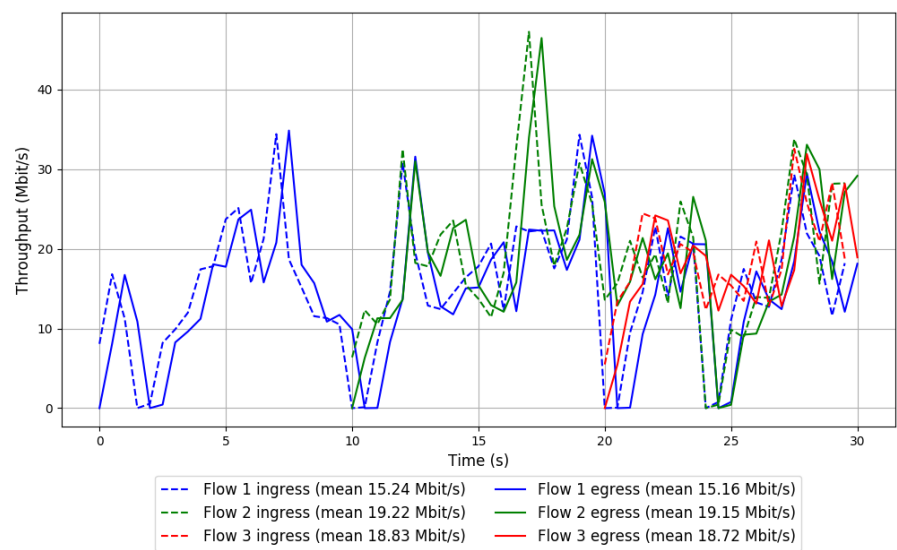
Run 8: Statistics of LEDBAT

Start at: 2018-08-22 04:54:56  
End at: 2018-08-22 04:55:26  
Local clock offset: 1.673 ms  
Remote clock offset: -64.027 ms

# Below is generated by plot.py at 2018-08-22 05:54:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.14 Mbit/s  
95th percentile per-packet one-way delay: 10.305 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 15.16 Mbit/s  
95th percentile per-packet one-way delay: 9.800 ms  
Loss rate: 0.53%  
-- Flow 2:  
Average throughput: 19.15 Mbit/s  
95th percentile per-packet one-way delay: 10.439 ms  
Loss rate: 0.33%  
-- Flow 3:  
Average throughput: 18.72 Mbit/s  
95th percentile per-packet one-way delay: 10.877 ms  
Loss rate: 0.54%



Run 8: Report of LEDBAT — Data Link

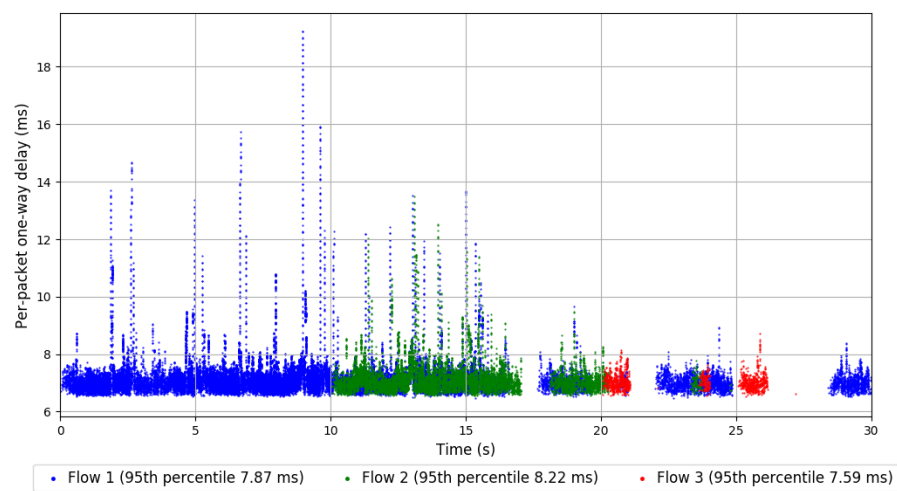
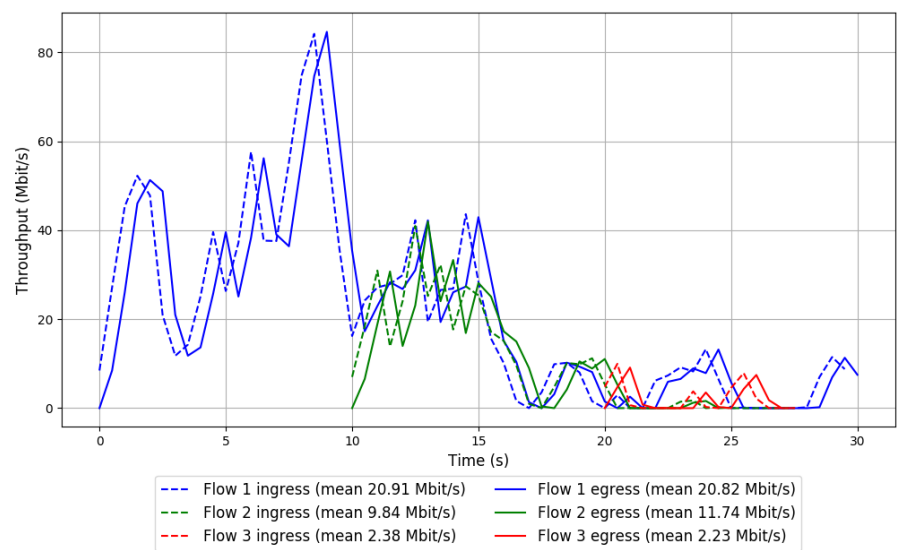


Run 9: Statistics of LEDBAT

Start at: 2018-08-22 05:14:36  
End at: 2018-08-22 05:15:06  
Local clock offset: 2.196 ms  
Remote clock offset: -63.628 ms

# Below is generated by plot.py at 2018-08-22 05:54:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.15 Mbit/s  
95th percentile per-packet one-way delay: 7.990 ms  
Loss rate: 0.77%  
-- Flow 1:  
Average throughput: 20.82 Mbit/s  
95th percentile per-packet one-way delay: 7.874 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 11.74 Mbit/s  
95th percentile per-packet one-way delay: 8.225 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 2.23 Mbit/s  
95th percentile per-packet one-way delay: 7.589 ms  
Loss rate: 6.38%

Run 9: Report of LEDBAT — Data Link

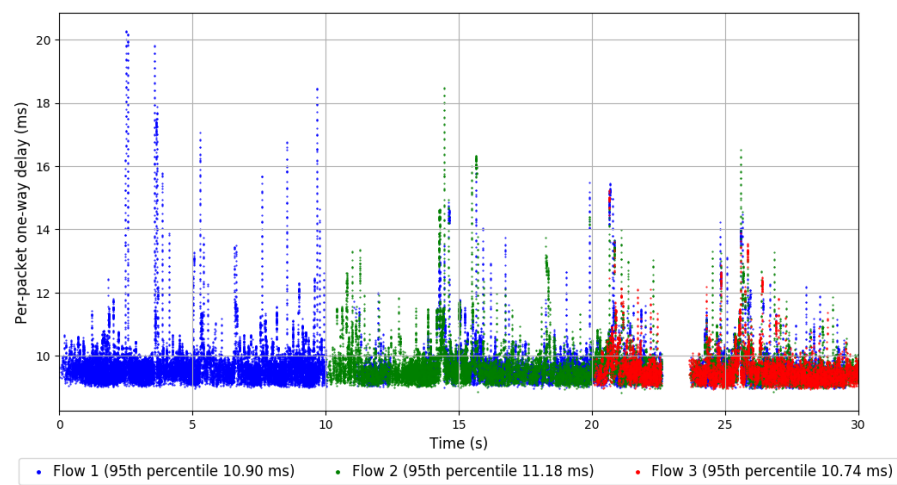
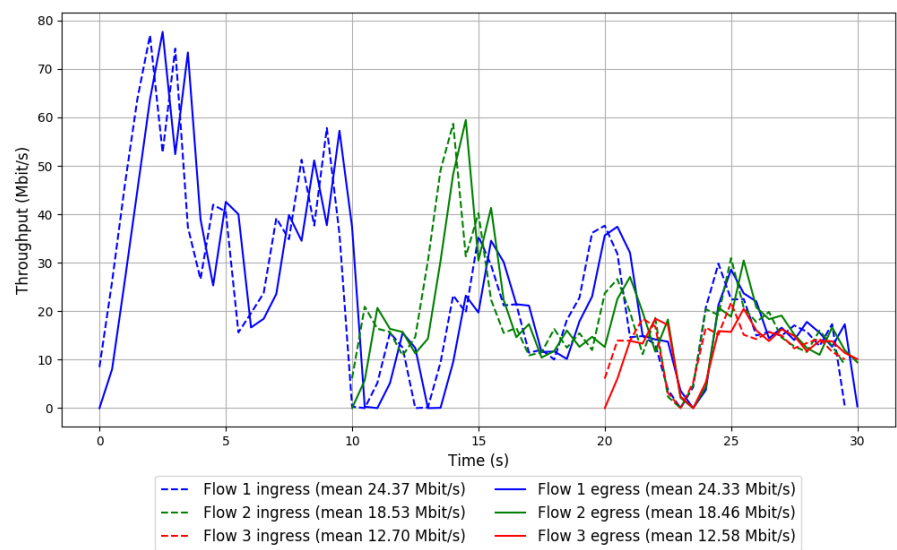


Run 10: Statistics of LEDBAT

Start at: 2018-08-22 05:34:14  
End at: 2018-08-22 05:34:44  
Local clock offset: 0.045 ms  
Remote clock offset: -58.917 ms

# Below is generated by plot.py at 2018-08-22 05:54:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.44 Mbit/s  
95th percentile per-packet one-way delay: 10.971 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 24.33 Mbit/s  
95th percentile per-packet one-way delay: 10.897 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 18.46 Mbit/s  
95th percentile per-packet one-way delay: 11.182 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 12.58 Mbit/s  
95th percentile per-packet one-way delay: 10.741 ms  
Loss rate: 0.95%

Run 10: Report of LEDBAT — Data Link

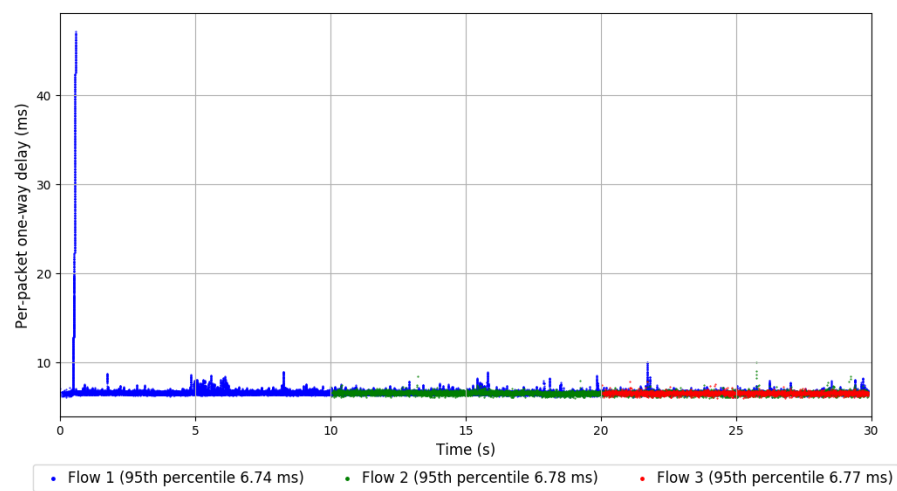
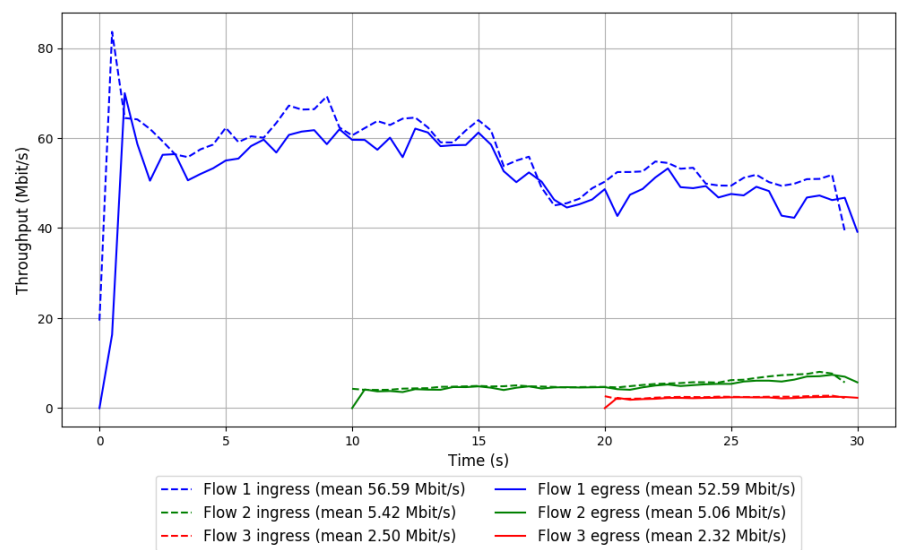


```
Run 1: Statistics of PCC-Allegro

Start at: 2018-08-22 02:43:34
End at: 2018-08-22 02:44:04
Local clock offset: 2.714 ms
Remote clock offset: -60.207 ms

# Below is generated by plot.py at 2018-08-22 05:54:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.72 Mbit/s
95th percentile per-packet one-way delay: 6.741 ms
Loss rate: 7.05%
-- Flow 1:
Average throughput: 52.59 Mbit/s
95th percentile per-packet one-way delay: 6.737 ms
Loss rate: 7.08%
-- Flow 2:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 6.775 ms
Loss rate: 6.50%
-- Flow 3:
Average throughput: 2.32 Mbit/s
95th percentile per-packet one-way delay: 6.768 ms
Loss rate: 7.02%
```

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-08-22 03:03:05

End at: 2018-08-22 03:03:35

Local clock offset: -0.052 ms

Remote clock offset: -60.201 ms

# Below is generated by plot.py at 2018-08-22 05:55:20

# Datalink statistics

-- Total of 3 flows:

Average throughput: 71.98 Mbit/s

95th percentile per-packet one-way delay: 10.361 ms

Loss rate: 10.23%

-- Flow 1:

Average throughput: 55.55 Mbit/s

95th percentile per-packet one-way delay: 10.275 ms

Loss rate: 10.18%

-- Flow 2:

Average throughput: 23.86 Mbit/s

95th percentile per-packet one-way delay: 10.327 ms

Loss rate: 10.38%

-- Flow 3:

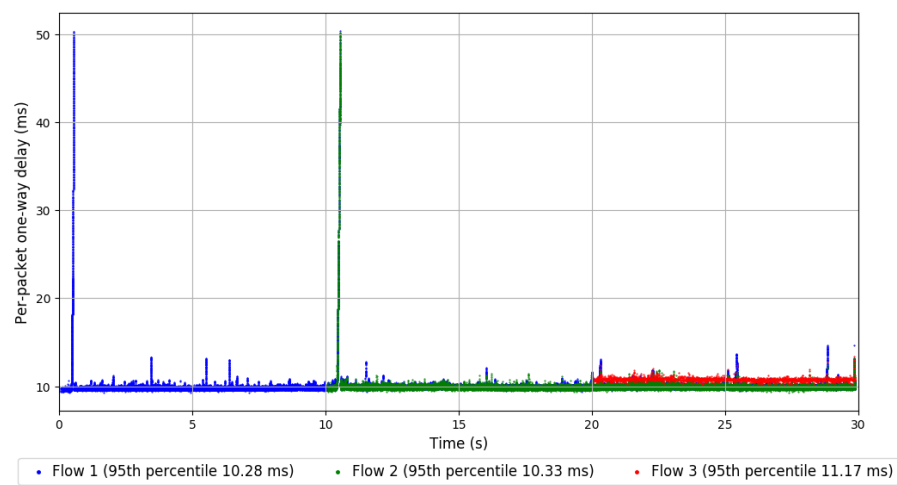
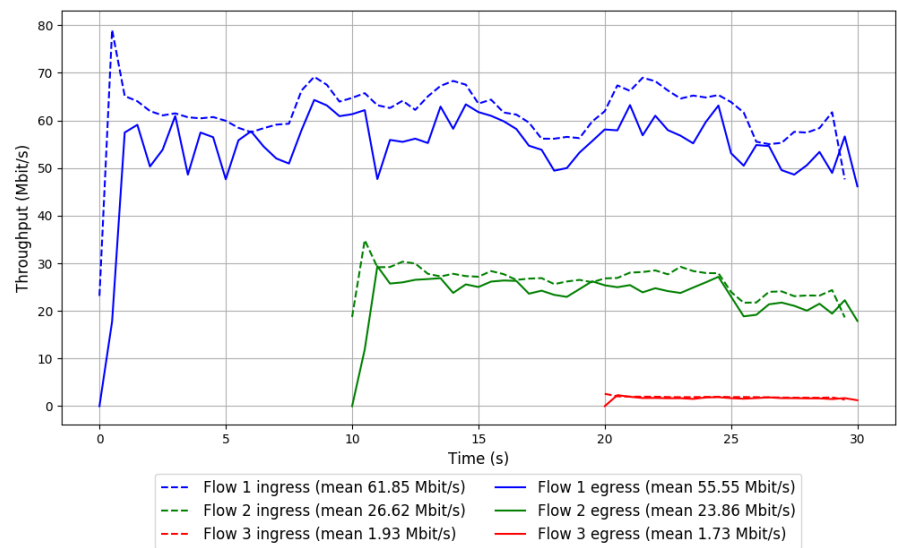
Average throughput: 1.73 Mbit/s

95th percentile per-packet one-way delay: 11.172 ms

Loss rate: 10.55%



Run 2: Report of PCC-Allegro — Data Link



Run 3: Statistics of PCC-Allegro

Start at: 2018-08-22 03:22:46

End at: 2018-08-22 03:23:16

Local clock offset: -0.098 ms

Remote clock offset: -63.268 ms

# Below is generated by plot.py at 2018-08-22 05:55:29

# Datalink statistics

-- Total of 3 flows:

Average throughput: 77.14 Mbit/s

95th percentile per-packet one-way delay: 8.375 ms

Loss rate: 6.55%

-- Flow 1:

Average throughput: 74.89 Mbit/s

95th percentile per-packet one-way delay: 8.376 ms

Loss rate: 6.56%

-- Flow 2:

Average throughput: 1.96 Mbit/s

95th percentile per-packet one-way delay: 7.625 ms

Loss rate: 6.36%

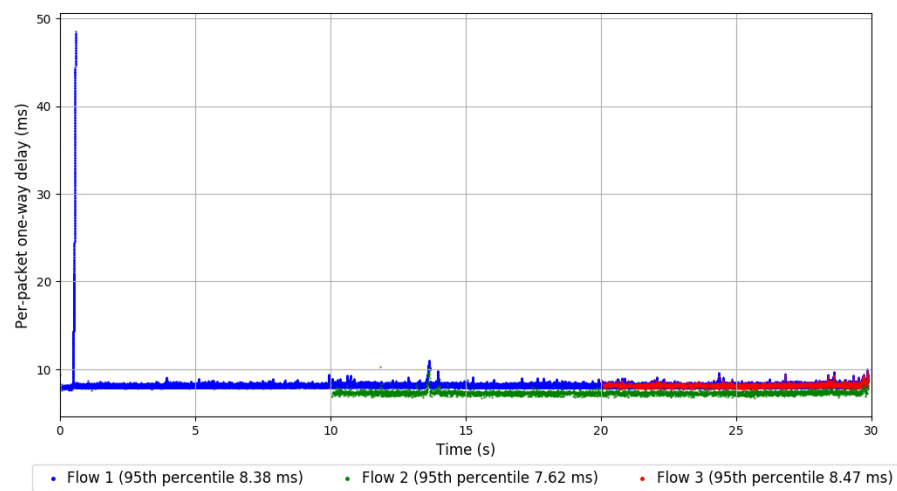
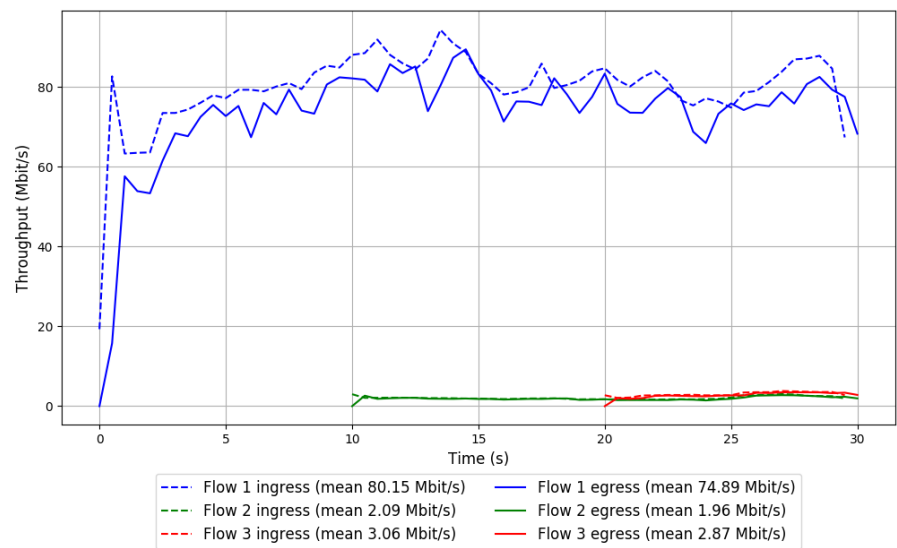
-- Flow 3:

Average throughput: 2.87 Mbit/s

95th percentile per-packet one-way delay: 8.472 ms

Loss rate: 6.22%

Run 3: Report of PCC-Allegro — Data Link



Run 4: Statistics of PCC-Allegro

Start at: 2018-08-22 03:42:29

End at: 2018-08-22 03:42:59

Local clock offset: -0.692 ms

Remote clock offset: -62.714 ms

# Below is generated by plot.py at 2018-08-22 05:55:31

# Datalink statistics

-- Total of 3 flows:

Average throughput: 72.45 Mbit/s

95th percentile per-packet one-way delay: 9.854 ms

Loss rate: 9.57%

-- Flow 1:

Average throughput: 64.85 Mbit/s

95th percentile per-packet one-way delay: 9.871 ms

Loss rate: 9.53%

-- Flow 2:

Average throughput: 7.86 Mbit/s

95th percentile per-packet one-way delay: 9.120 ms

Loss rate: 9.60%

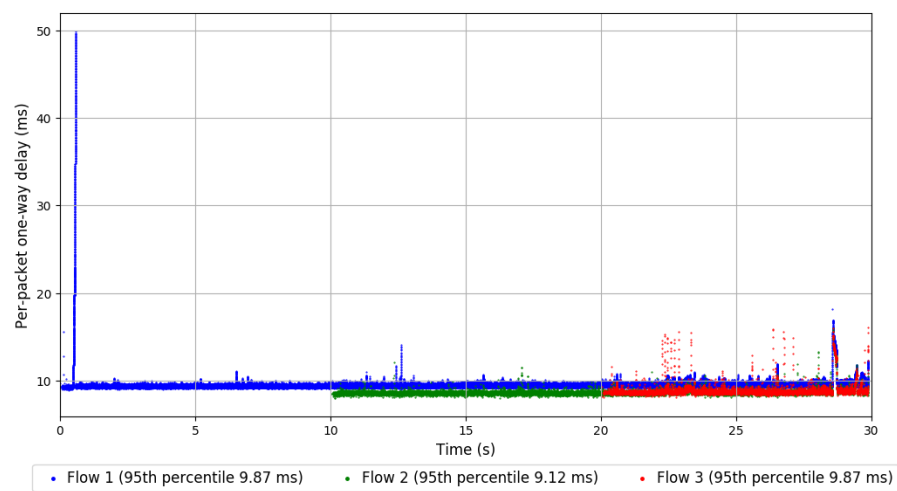
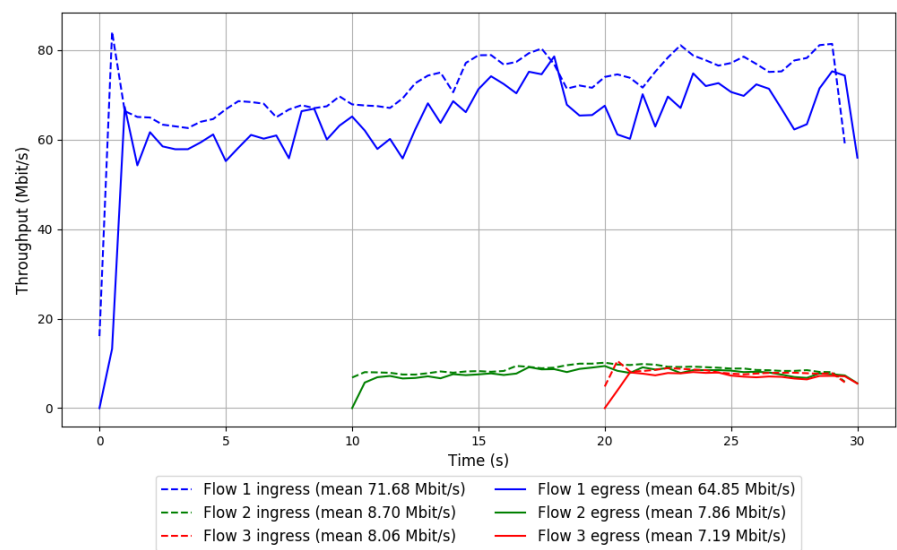
-- Flow 3:

Average throughput: 7.19 Mbit/s

95th percentile per-packet one-way delay: 9.872 ms

Loss rate: 10.80%

Run 4: Report of PCC-Allegro — Data Link

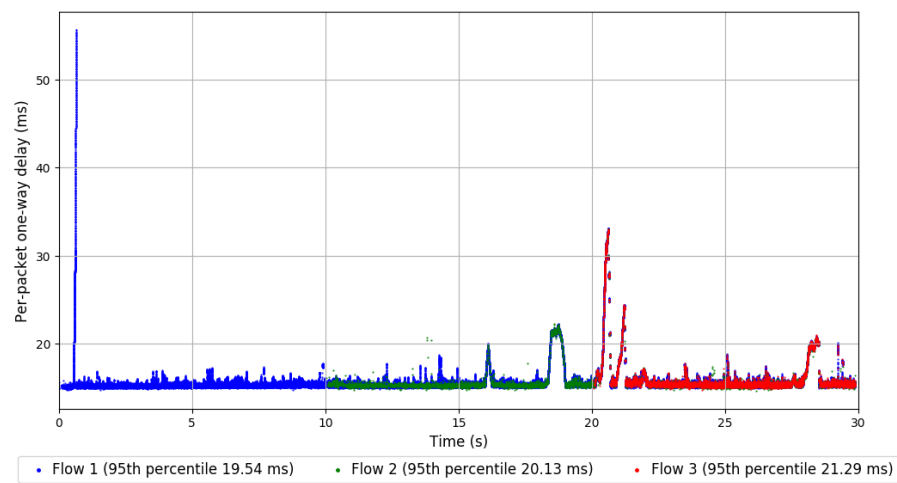
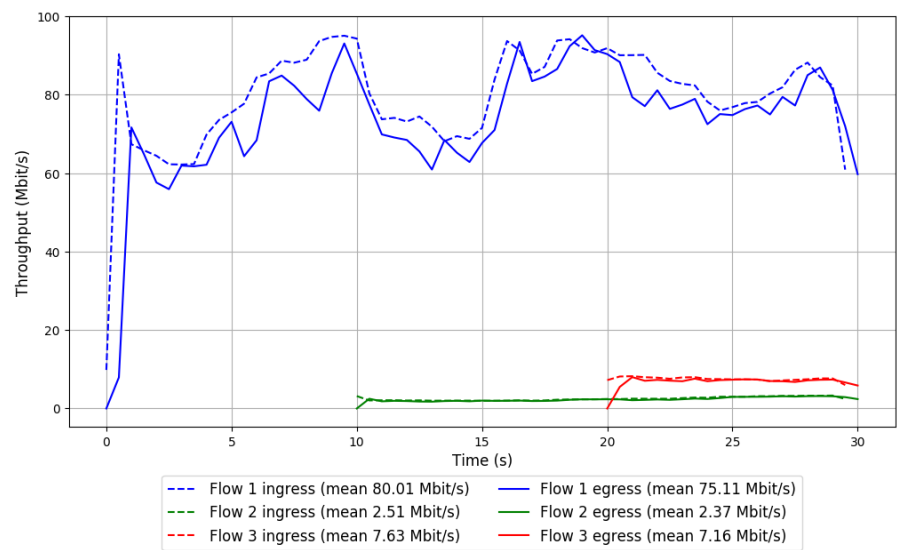


Run 5: Statistics of PCC-Allegro

Start at: 2018-08-22 04:02:09  
End at: 2018-08-22 04:02:39  
Local clock offset: 0.913 ms  
Remote clock offset: -62.149 ms

# Below is generated by plot.py at 2018-08-22 05:55:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.03 Mbit/s  
95th percentile per-packet one-way delay: 19.619 ms  
Loss rate: 6.14%  
-- Flow 1:  
Average throughput: 75.11 Mbit/s  
95th percentile per-packet one-way delay: 19.539 ms  
Loss rate: 6.15%  
-- Flow 2:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 20.130 ms  
Loss rate: 5.55%  
-- Flow 3:  
Average throughput: 7.16 Mbit/s  
95th percentile per-packet one-way delay: 21.287 ms  
Loss rate: 6.27%

Run 5: Report of PCC-Allegro — Data Link



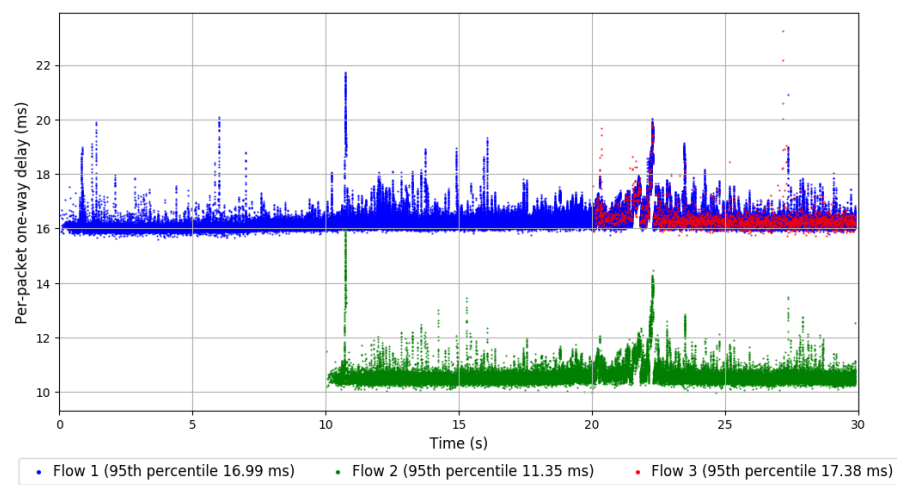
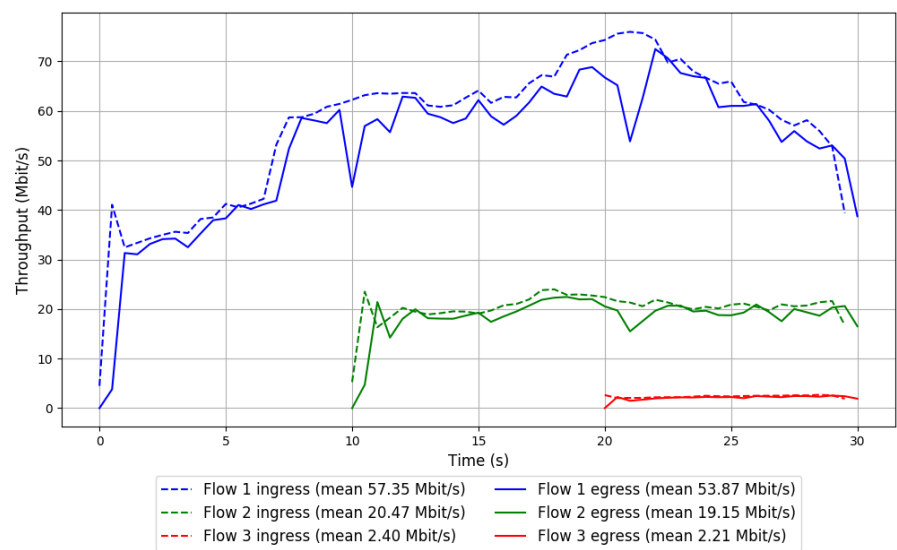
Run 6: Statistics of PCC-Allegro

Start at: 2018-08-22 04:21:40  
End at: 2018-08-22 04:22:10  
Local clock offset: -0.338 ms  
Remote clock offset: -63.281 ms

# Below is generated by plot.py at 2018-08-22 05:55:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.33 Mbit/s  
95th percentile per-packet one-way delay: 16.891 ms  
Loss rate: 6.17%  
-- Flow 1:  
Average throughput: 53.87 Mbit/s  
95th percentile per-packet one-way delay: 16.990 ms  
Loss rate: 6.08%  
-- Flow 2:  
Average throughput: 19.15 Mbit/s  
95th percentile per-packet one-way delay: 11.354 ms  
Loss rate: 6.45%  
-- Flow 3:  
Average throughput: 2.21 Mbit/s  
95th percentile per-packet one-way delay: 17.377 ms  
Loss rate: 7.91%



Run 6: Report of PCC-Allegro — Data Link

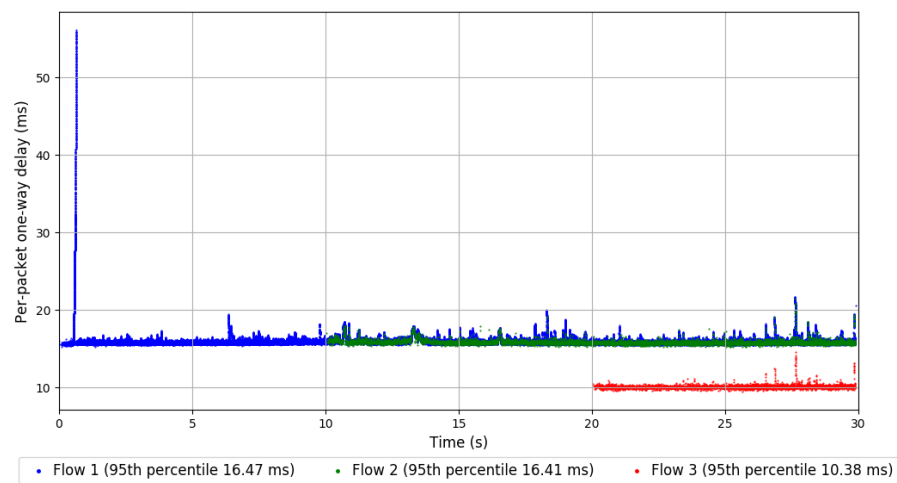
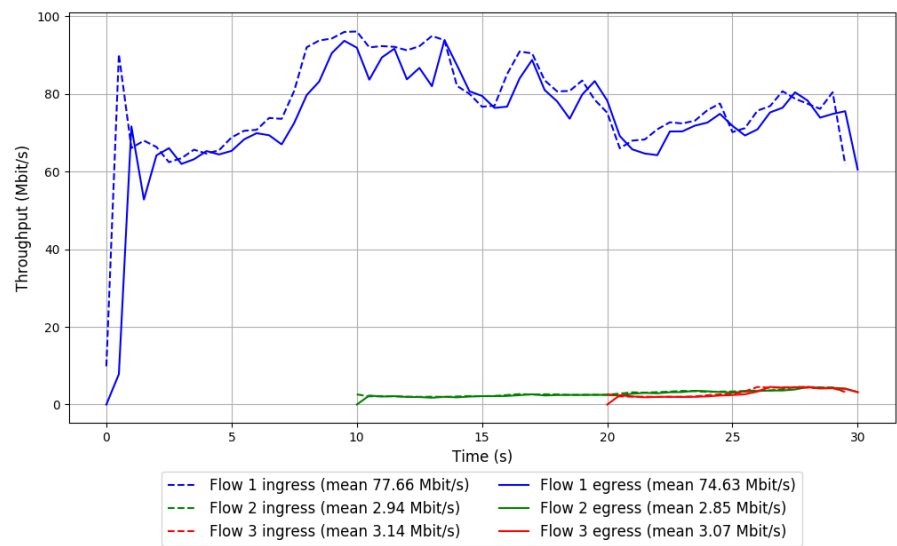


Run 7: Statistics of PCC-Allegro

Start at: 2018-08-22 04:41:17  
End at: 2018-08-22 04:41:47  
Local clock offset: -0.259 ms  
Remote clock offset: -64.777 ms

# Below is generated by plot.py at 2018-08-22 05:55:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 77.54 Mbit/s  
95th percentile per-packet one-way delay: 16.458 ms  
Loss rate: 3.86%  
-- Flow 1:  
Average throughput: 74.63 Mbit/s  
95th percentile per-packet one-way delay: 16.469 ms  
Loss rate: 3.91%  
-- Flow 2:  
Average throughput: 2.85 Mbit/s  
95th percentile per-packet one-way delay: 16.414 ms  
Loss rate: 3.06%  
-- Flow 3:  
Average throughput: 3.07 Mbit/s  
95th percentile per-packet one-way delay: 10.376 ms  
Loss rate: 2.25%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-08-22 05:00:50

End at: 2018-08-22 05:01:20

Local clock offset: 4.183 ms

Remote clock offset: -63.493 ms

# Below is generated by plot.py at 2018-08-22 05:55:41

# Datalink statistics

-- Total of 3 flows:

Average throughput: 70.02 Mbit/s

95th percentile per-packet one-way delay: 5.517 ms

Loss rate: 8.86%

-- Flow 1:

Average throughput: 64.38 Mbit/s

95th percentile per-packet one-way delay: 5.451 ms

Loss rate: 8.82%

-- Flow 2:

Average throughput: 7.57 Mbit/s

95th percentile per-packet one-way delay: 5.497 ms

Loss rate: 9.15%

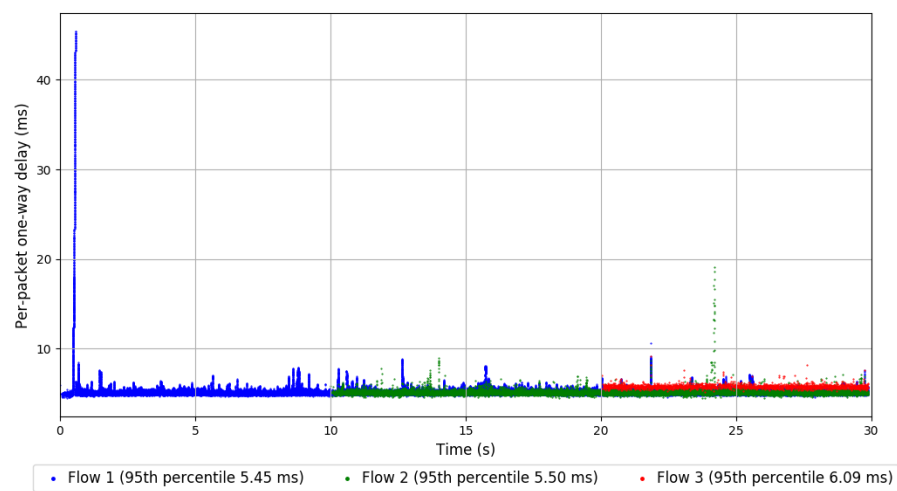
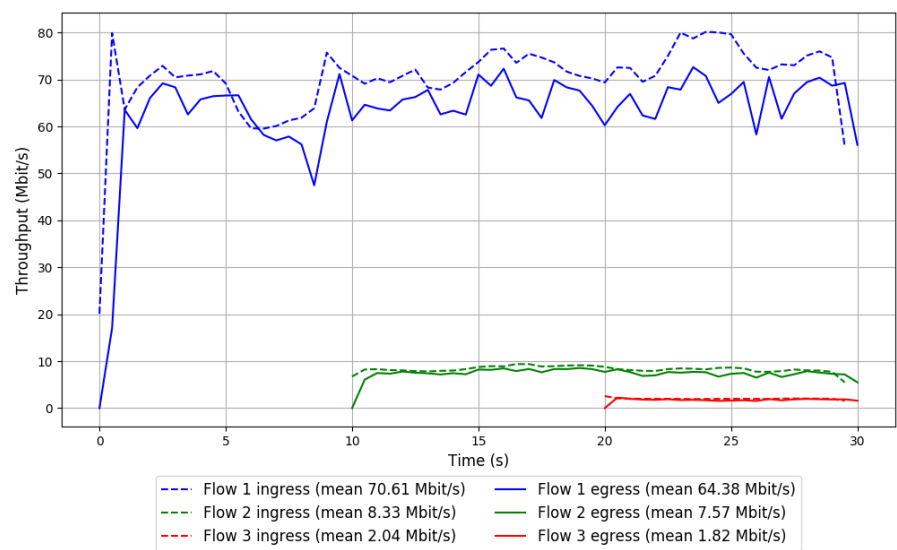
-- Flow 3:

Average throughput: 1.82 Mbit/s

95th percentile per-packet one-way delay: 6.093 ms

Loss rate: 10.44%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-08-22 05:20:31

End at: 2018-08-22 05:21:01

Local clock offset: 2.853 ms

Remote clock offset: -61.048 ms

# Below is generated by plot.py at 2018-08-22 05:55:57

# Datalink statistics

-- Total of 3 flows:

Average throughput: 81.03 Mbit/s

95th percentile per-packet one-way delay: 15.681 ms

Loss rate: 5.33%

-- Flow 1:

Average throughput: 73.83 Mbit/s

95th percentile per-packet one-way delay: 10.724 ms

Loss rate: 5.30%

-- Flow 2:

Average throughput: 9.74 Mbit/s

95th percentile per-packet one-way delay: 20.320 ms

Loss rate: 5.54%

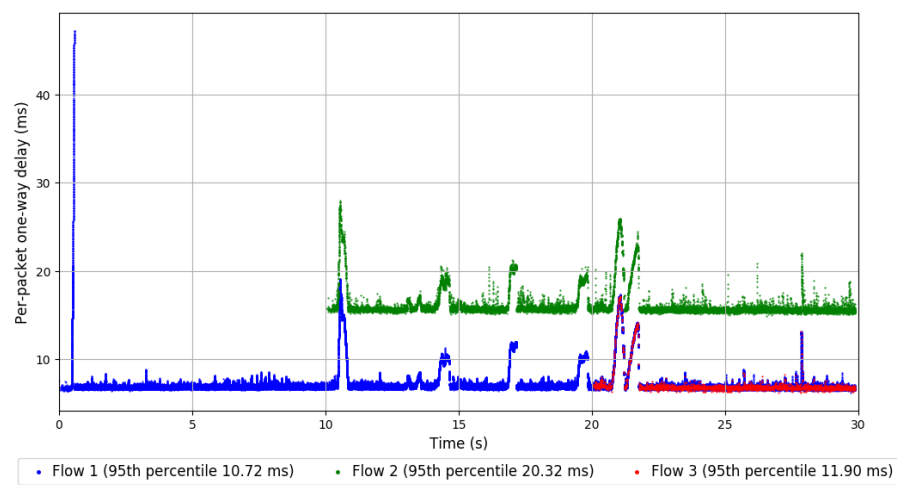
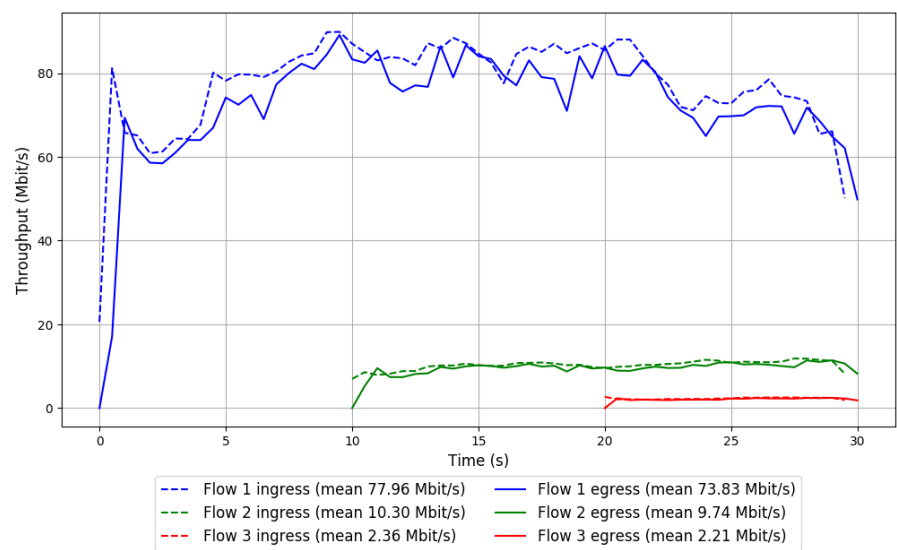
-- Flow 3:

Average throughput: 2.21 Mbit/s

95th percentile per-packet one-way delay: 11.904 ms

Loss rate: 6.30%

Run 9: Report of PCC-Allegro — Data Link



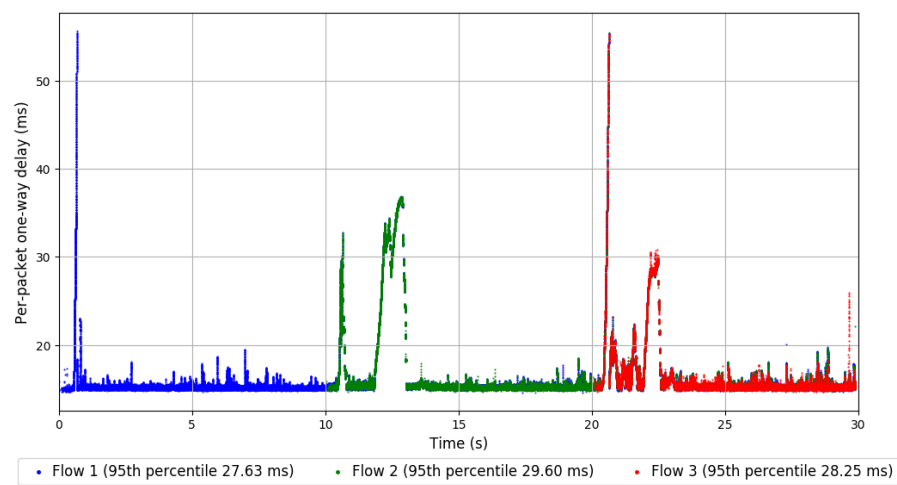
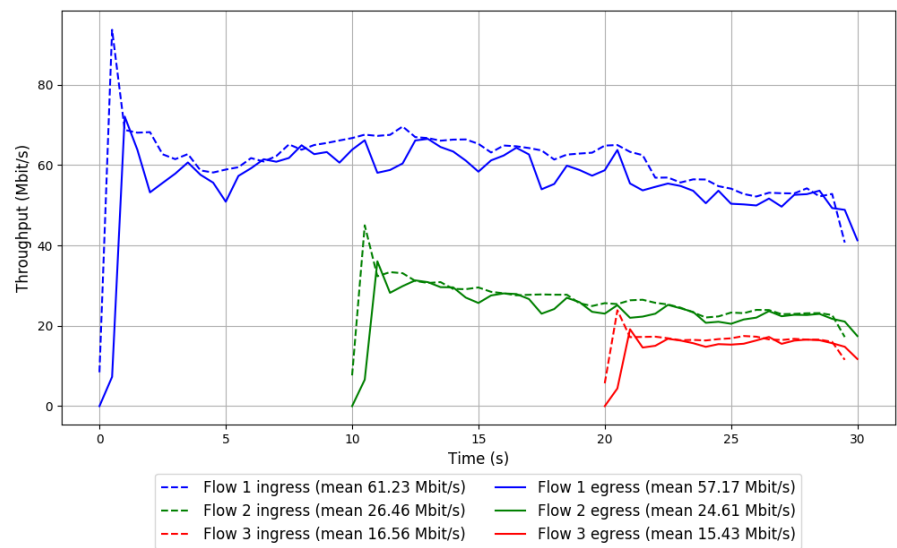
Run 10: Statistics of PCC-Allegro

Start at: 2018-08-22 05:40:05  
End at: 2018-08-22 05:40:35  
Local clock offset: 2.425 ms  
Remote clock offset: -58.533 ms

# Below is generated by plot.py at 2018-08-22 05:56:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.60 Mbit/s  
95th percentile per-packet one-way delay: 28.265 ms  
Loss rate: 6.75%  
-- Flow 1:  
Average throughput: 57.17 Mbit/s  
95th percentile per-packet one-way delay: 27.634 ms  
Loss rate: 6.65%  
-- Flow 2:  
Average throughput: 24.61 Mbit/s  
95th percentile per-packet one-way delay: 29.596 ms  
Loss rate: 7.01%  
-- Flow 3:  
Average throughput: 15.43 Mbit/s  
95th percentile per-packet one-way delay: 28.251 ms  
Loss rate: 6.95%



Run 10: Report of PCC-Allegro — Data Link

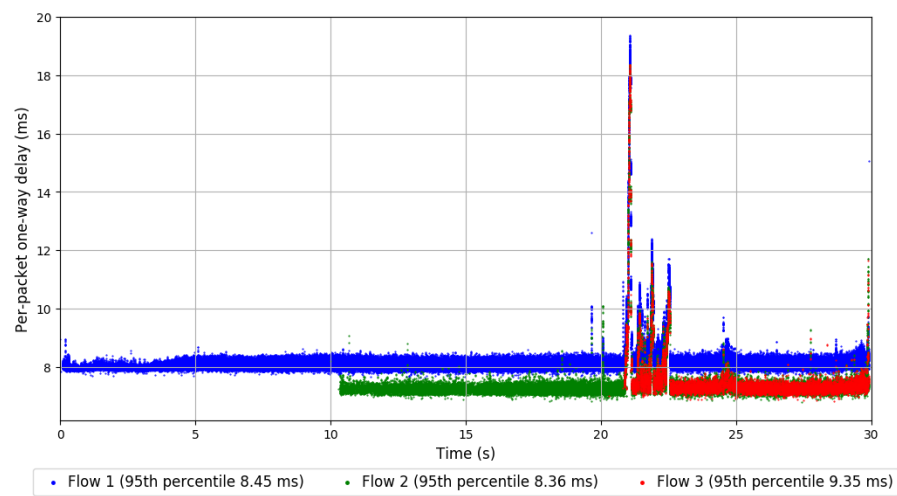
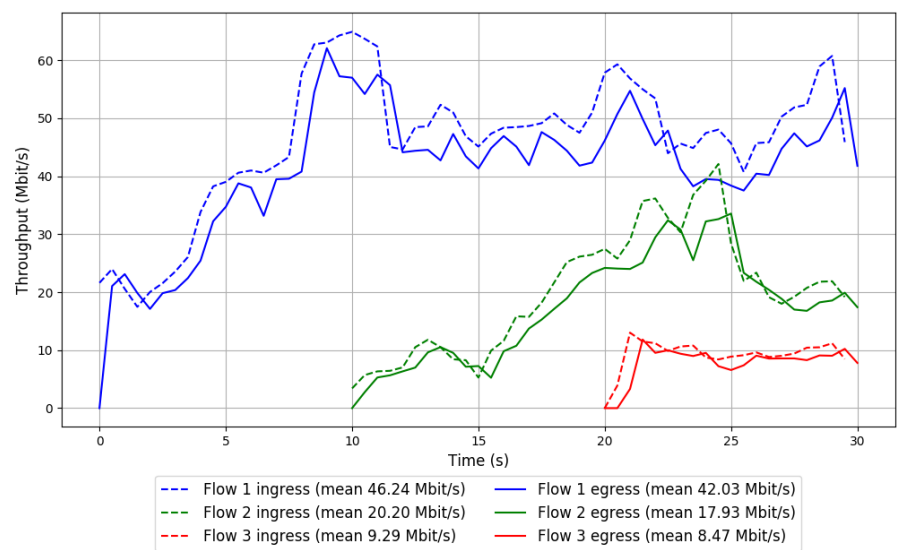


```
Run 1: Statistics of PCC-Expr

Start at: 2018-08-22 02:42:24
End at: 2018-08-22 02:42:54
Local clock offset: 2.29 ms
Remote clock offset: -60.029 ms

# Below is generated by plot.py at 2018-08-22 05:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 8.458 ms
Loss rate: 9.65%
-- Flow 1:
Average throughput: 42.03 Mbit/s
95th percentile per-packet one-way delay: 8.449 ms
Loss rate: 9.09%
-- Flow 2:
Average throughput: 17.93 Mbit/s
95th percentile per-packet one-way delay: 8.357 ms
Loss rate: 11.23%
-- Flow 3:
Average throughput: 8.47 Mbit/s
95th percentile per-packet one-way delay: 9.347 ms
Loss rate: 11.21%
```

Run 1: Report of PCC-Expr — Data Link

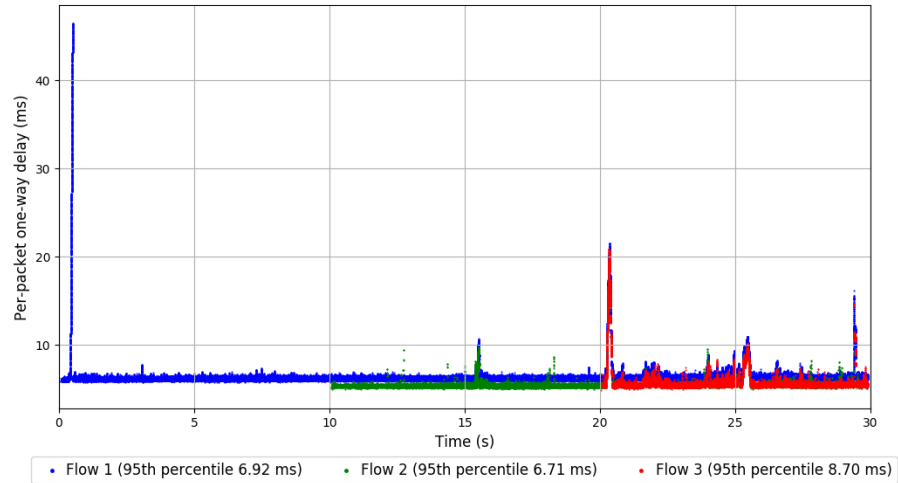
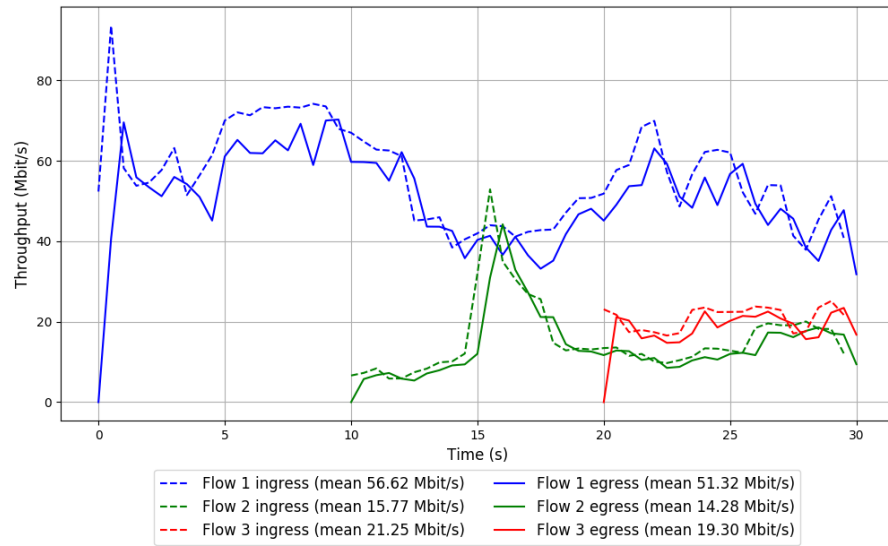


Run 2: Statistics of PCC-Expr

Start at: 2018-08-22 03:01:54  
End at: 2018-08-22 03:02:24  
Local clock offset: 4.119 ms  
Remote clock offset: -60.205 ms

# Below is generated by plot.py at 2018-08-22 05:56:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 67.20 Mbit/s  
95th percentile per-packet one-way delay: 6.993 ms  
Loss rate: 9.36%  
-- Flow 1:  
Average throughput: 51.32 Mbit/s  
95th percentile per-packet one-way delay: 6.923 ms  
Loss rate: 9.36%  
-- Flow 2:  
Average throughput: 14.28 Mbit/s  
95th percentile per-packet one-way delay: 6.713 ms  
Loss rate: 9.43%  
-- Flow 3:  
Average throughput: 19.30 Mbit/s  
95th percentile per-packet one-way delay: 8.702 ms  
Loss rate: 9.20%

## Run 2: Report of PCC-Expr — Data Link

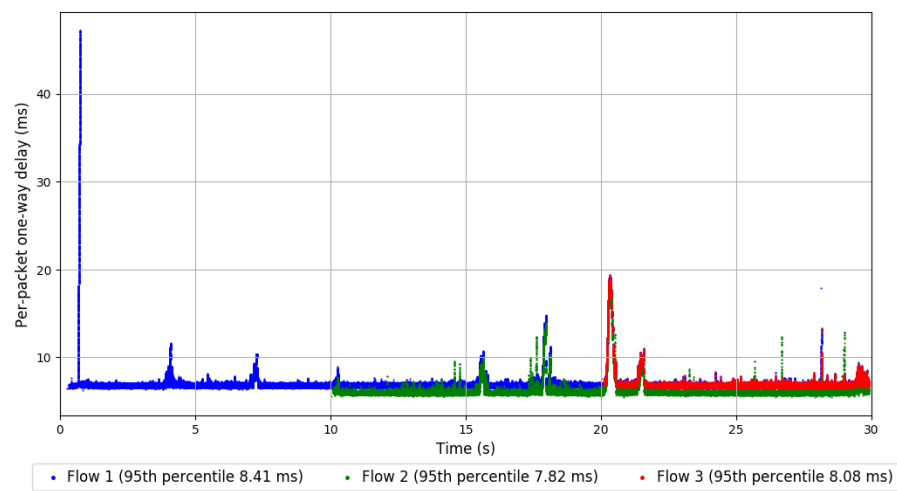
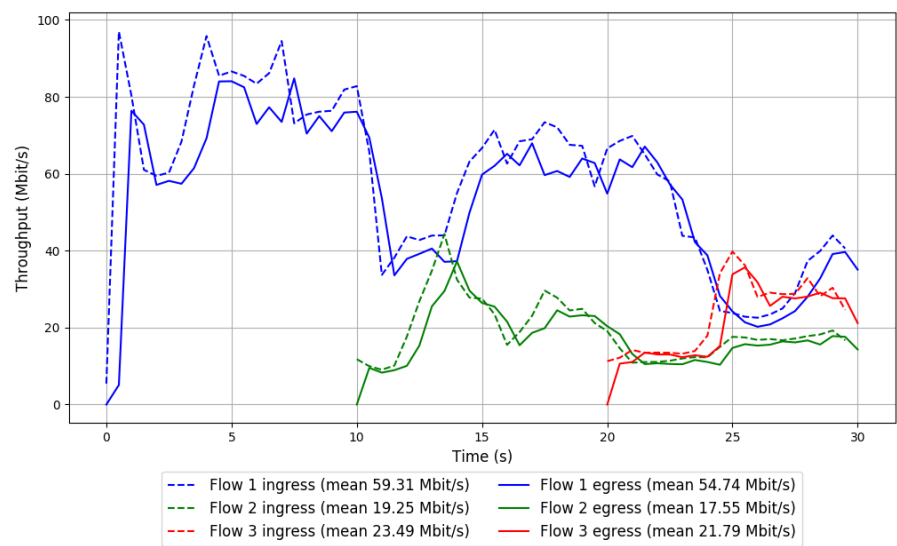


Run 3: Statistics of PCC-Expr

Start at: 2018-08-22 03:21:32  
End at: 2018-08-22 03:22:02  
Local clock offset: 1.167 ms  
Remote clock offset: -63.309 ms

# Below is generated by plot.py at 2018-08-22 05:57:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.77 Mbit/s  
95th percentile per-packet one-way delay: 8.286 ms  
Loss rate: 8.42%  
-- Flow 1:  
Average throughput: 54.74 Mbit/s  
95th percentile per-packet one-way delay: 8.410 ms  
Loss rate: 8.48%  
-- Flow 2:  
Average throughput: 17.55 Mbit/s  
95th percentile per-packet one-way delay: 7.821 ms  
Loss rate: 8.85%  
-- Flow 3:  
Average throughput: 21.79 Mbit/s  
95th percentile per-packet one-way delay: 8.079 ms  
Loss rate: 7.25%

Run 3: Report of PCC-Expr — Data Link



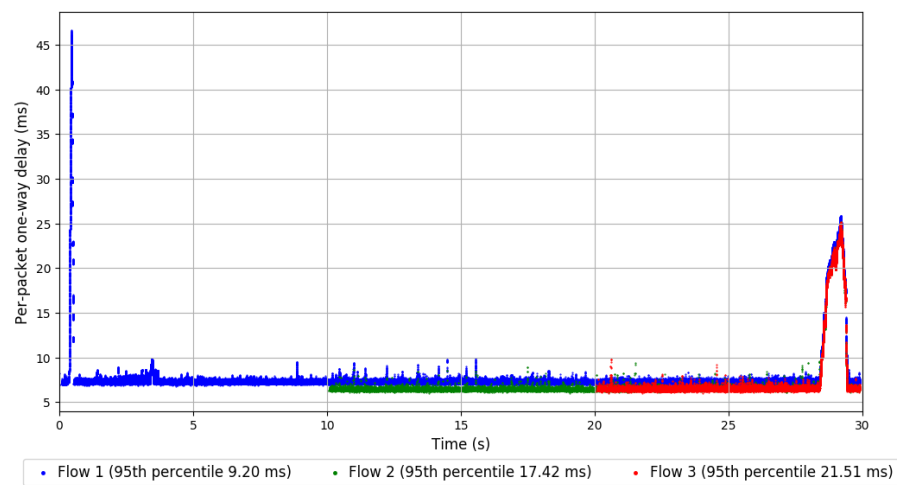
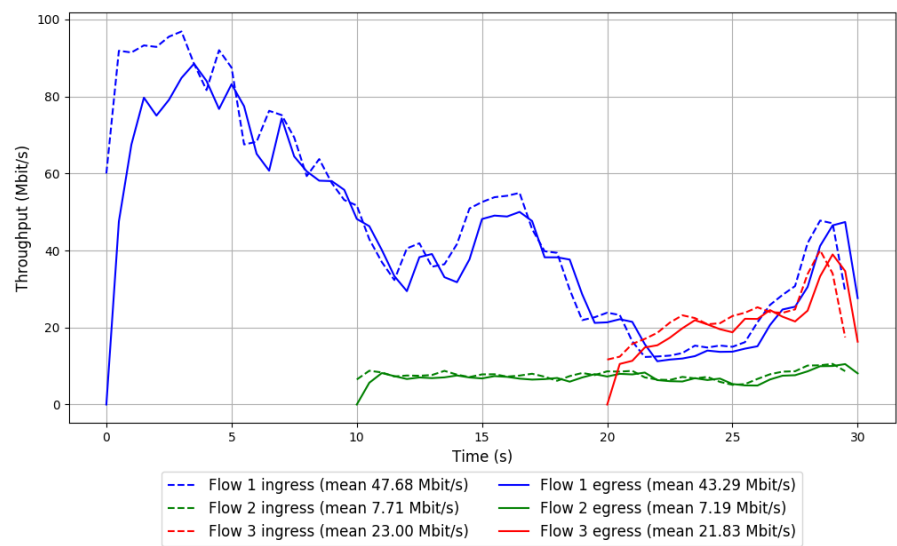
Run 4: Statistics of PCC-Expr

Start at: 2018-08-22 03:41:19  
End at: 2018-08-22 03:41:49  
Local clock offset: 0.95 ms  
Remote clock offset: -63.024 ms

# Below is generated by plot.py at 2018-08-22 05:57:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.29 Mbit/s  
95th percentile per-packet one-way delay: 16.390 ms  
Loss rate: 8.48%  
-- Flow 1:  
Average throughput: 43.29 Mbit/s  
95th percentile per-packet one-way delay: 9.196 ms  
Loss rate: 9.21%  
-- Flow 2:  
Average throughput: 7.19 Mbit/s  
95th percentile per-packet one-way delay: 17.421 ms  
Loss rate: 6.78%  
-- Flow 3:  
Average throughput: 21.83 Mbit/s  
95th percentile per-packet one-way delay: 21.514 ms  
Loss rate: 5.09%



Run 4: Report of PCC-Expr — Data Link

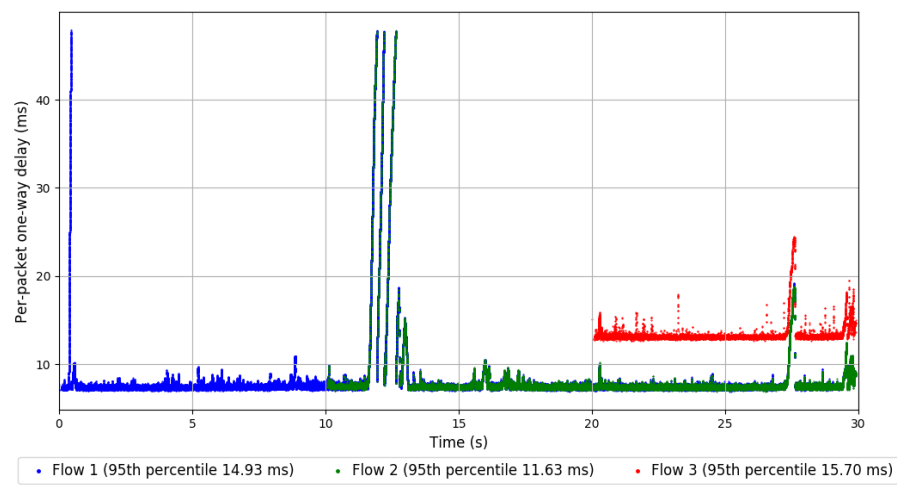
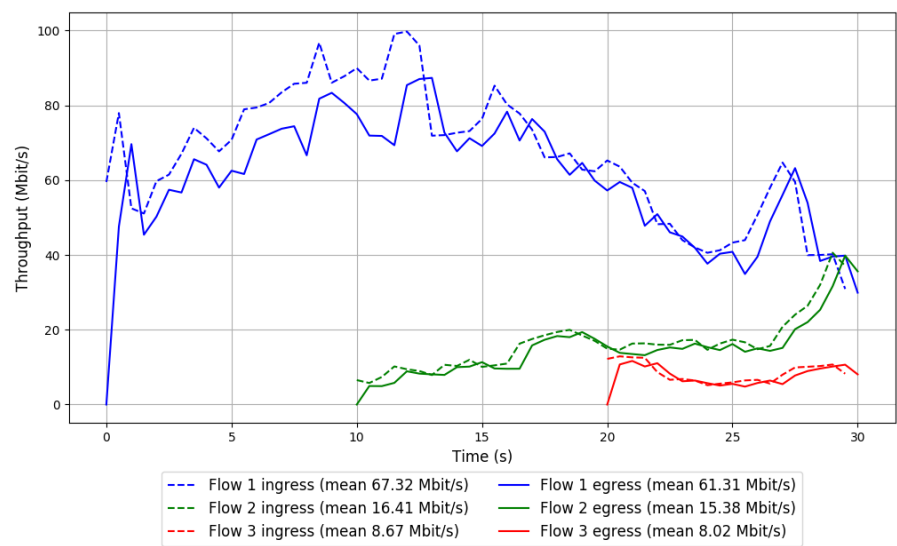


Run 5: Statistics of PCC-Expr

Start at: 2018-08-22 04:00:58  
End at: 2018-08-22 04:01:28  
Local clock offset: 2.878 ms  
Remote clock offset: -62.325 ms

# Below is generated by plot.py at 2018-08-22 05:57:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.19 Mbit/s  
95th percentile per-packet one-way delay: 14.731 ms  
Loss rate: 8.52%  
-- Flow 1:  
Average throughput: 61.31 Mbit/s  
95th percentile per-packet one-way delay: 14.929 ms  
Loss rate: 8.93%  
-- Flow 2:  
Average throughput: 15.38 Mbit/s  
95th percentile per-packet one-way delay: 11.630 ms  
Loss rate: 6.28%  
-- Flow 3:  
Average throughput: 8.02 Mbit/s  
95th percentile per-packet one-way delay: 15.703 ms  
Loss rate: 7.50%

Run 5: Report of PCC-Expr — Data Link

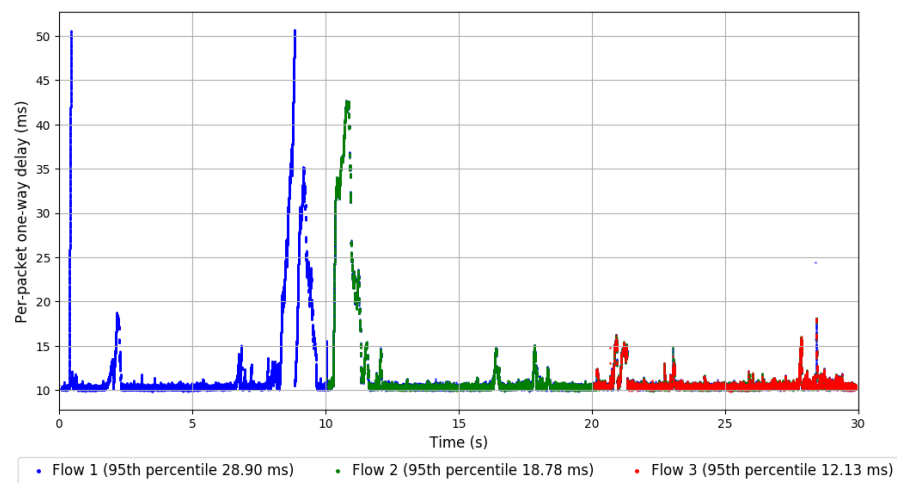
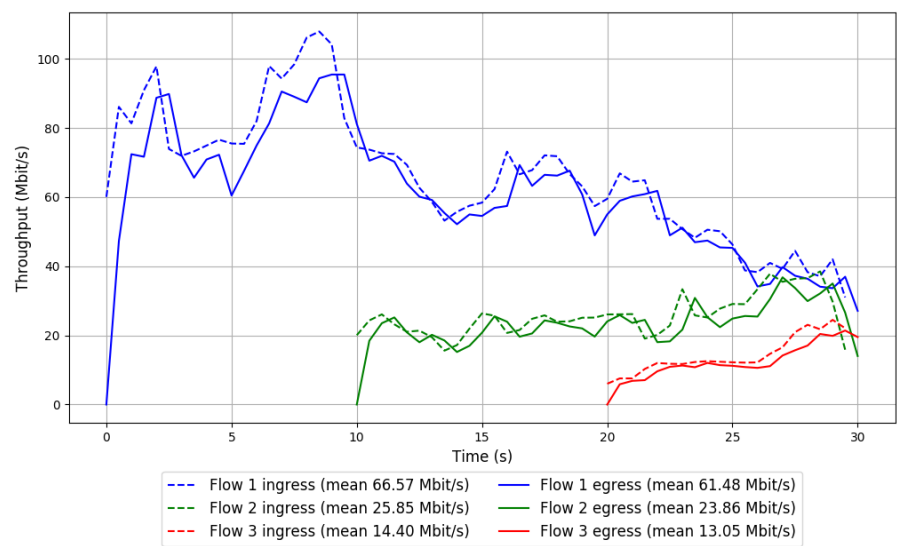


Run 6: Statistics of PCC-Expr

Start at: 2018-08-22 04:20:28  
End at: 2018-08-22 04:20:58  
Local clock offset: -0.099 ms  
Remote clock offset: -63.177 ms

# Below is generated by plot.py at 2018-08-22 05:57:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.66 Mbit/s  
95th percentile per-packet one-way delay: 25.171 ms  
Loss rate: 7.75%  
-- Flow 1:  
Average throughput: 61.48 Mbit/s  
95th percentile per-packet one-way delay: 28.896 ms  
Loss rate: 7.65%  
-- Flow 2:  
Average throughput: 23.86 Mbit/s  
95th percentile per-packet one-way delay: 18.778 ms  
Loss rate: 7.70%  
-- Flow 3:  
Average throughput: 13.05 Mbit/s  
95th percentile per-packet one-way delay: 12.132 ms  
Loss rate: 9.35%

Run 6: Report of PCC-Expr — Data Link

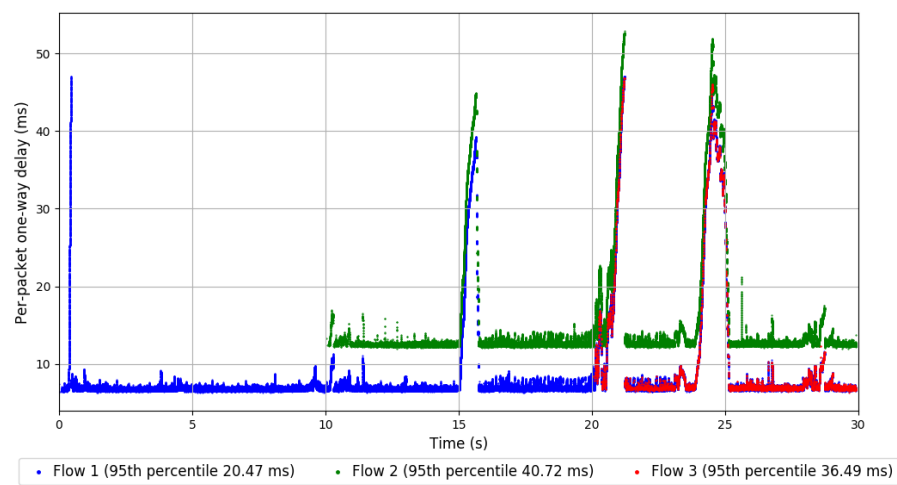
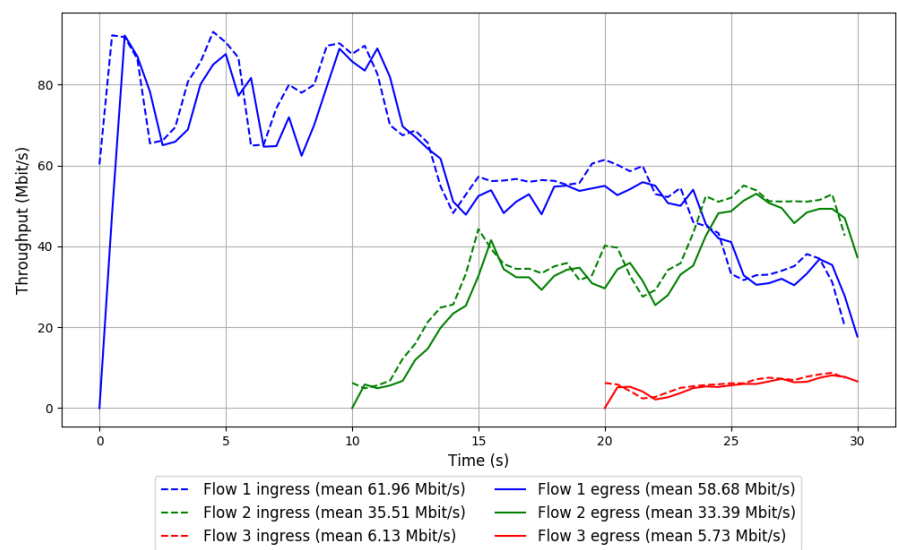


Run 7: Statistics of PCC-Expr

Start at: 2018-08-22 04:40:06  
End at: 2018-08-22 04:40:36  
Local clock offset: 3.492 ms  
Remote clock offset: -64.185 ms

# Below is generated by plot.py at 2018-08-22 05:57:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.77 Mbit/s  
95th percentile per-packet one-way delay: 32.613 ms  
Loss rate: 5.51%  
-- Flow 1:  
Average throughput: 58.68 Mbit/s  
95th percentile per-packet one-way delay: 20.472 ms  
Loss rate: 5.29%  
-- Flow 2:  
Average throughput: 33.39 Mbit/s  
95th percentile per-packet one-way delay: 40.718 ms  
Loss rate: 6.00%  
-- Flow 3:  
Average throughput: 5.73 Mbit/s  
95th percentile per-packet one-way delay: 36.486 ms  
Loss rate: 6.59%

Run 7: Report of PCC-Expr — Data Link



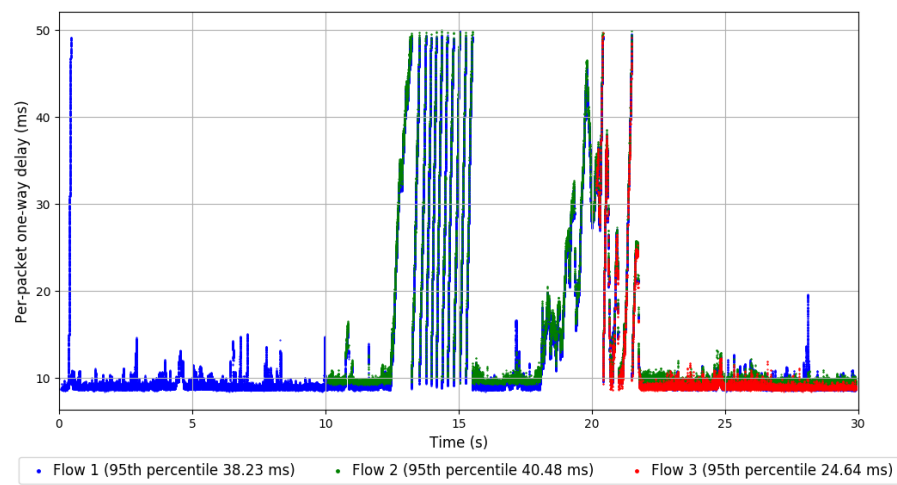
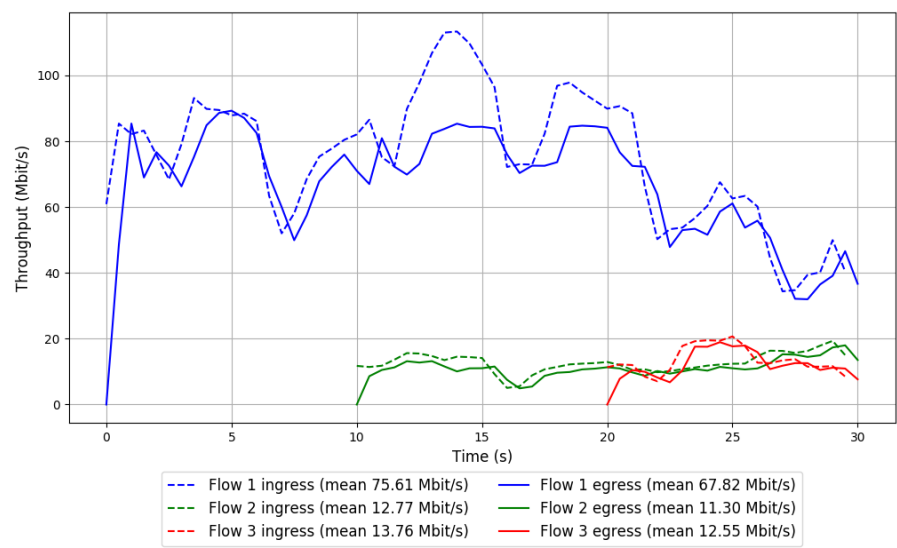
Run 8: Statistics of PCC-Expr

Start at: 2018-08-22 04:59:36  
End at: 2018-08-22 05:00:06  
Local clock offset: 0.493 ms  
Remote clock offset: -63.391 ms

# Below is generated by plot.py at 2018-08-22 05:58:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.47 Mbit/s  
95th percentile per-packet one-way delay: 37.984 ms  
Loss rate: 10.35%  
-- Flow 1:  
Average throughput: 67.82 Mbit/s  
95th percentile per-packet one-way delay: 38.234 ms  
Loss rate: 10.30%  
-- Flow 2:  
Average throughput: 11.30 Mbit/s  
95th percentile per-packet one-way delay: 40.483 ms  
Loss rate: 11.47%  
-- Flow 3:  
Average throughput: 12.55 Mbit/s  
95th percentile per-packet one-way delay: 24.637 ms  
Loss rate: 9.01%



Run 8: Report of PCC-Expr — Data Link

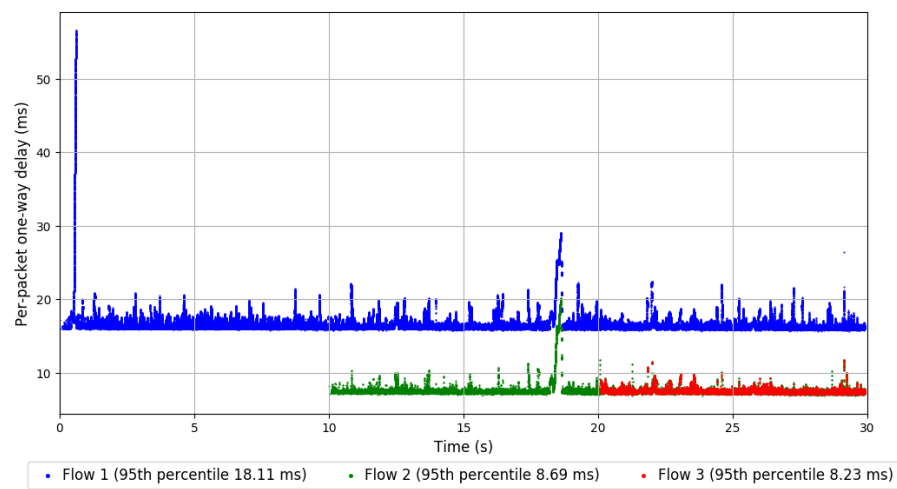
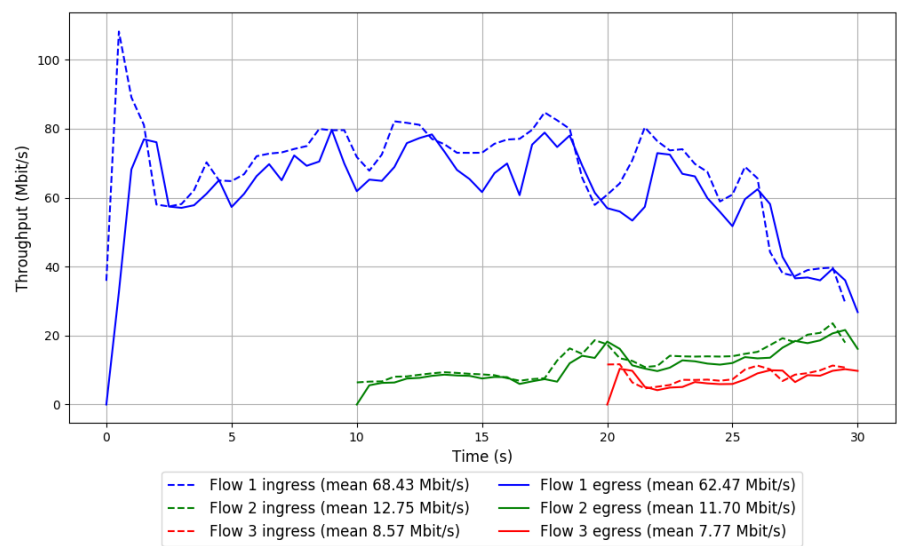


Run 9: Statistics of PCC-Expr

Start at: 2018-08-22 05:19:18  
End at: 2018-08-22 05:19:48  
Local clock offset: 2.154 ms  
Remote clock offset: -61.504 ms

# Below is generated by plot.py at 2018-08-22 05:58:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.82 Mbit/s  
95th percentile per-packet one-way delay: 17.943 ms  
Loss rate: 8.71%  
-- Flow 1:  
Average throughput: 62.47 Mbit/s  
95th percentile per-packet one-way delay: 18.107 ms  
Loss rate: 8.73%  
-- Flow 2:  
Average throughput: 11.70 Mbit/s  
95th percentile per-packet one-way delay: 8.686 ms  
Loss rate: 8.26%  
-- Flow 3:  
Average throughput: 7.77 Mbit/s  
95th percentile per-packet one-way delay: 8.228 ms  
Loss rate: 9.38%

Run 9: Report of PCC-Expr — Data Link

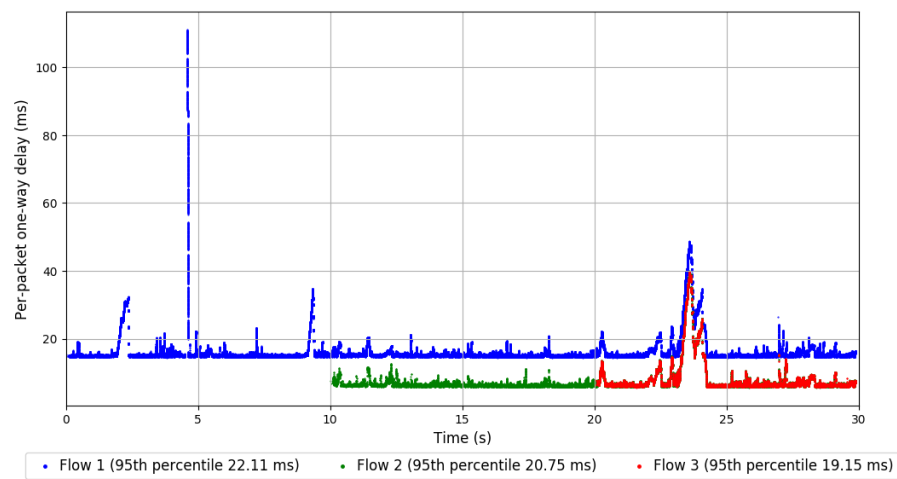
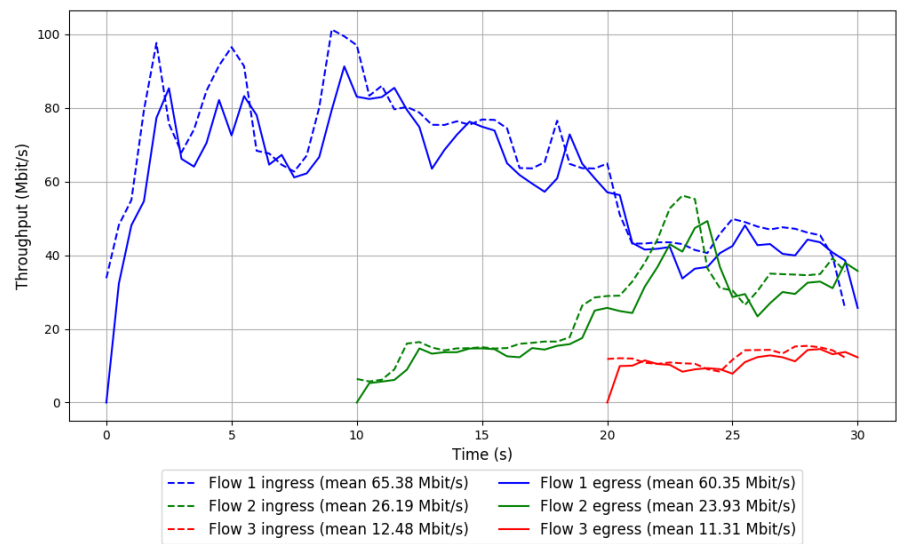


Run 10: Statistics of PCC-Expr

Start at: 2018-08-22 05:38:54  
End at: 2018-08-22 05:39:24  
Local clock offset: 2.296 ms  
Remote clock offset: -59.115 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.00 Mbit/s  
95th percentile per-packet one-way delay: 21.654 ms  
Loss rate: 7.98%  
-- Flow 1:  
Average throughput: 60.35 Mbit/s  
95th percentile per-packet one-way delay: 22.105 ms  
Loss rate: 7.72%  
-- Flow 2:  
Average throughput: 23.93 Mbit/s  
95th percentile per-packet one-way delay: 20.746 ms  
Loss rate: 8.63%  
-- Flow 3:  
Average throughput: 11.31 Mbit/s  
95th percentile per-packet one-way delay: 19.150 ms  
Loss rate: 9.37%

Run 10: Report of PCC-Expr — Data Link

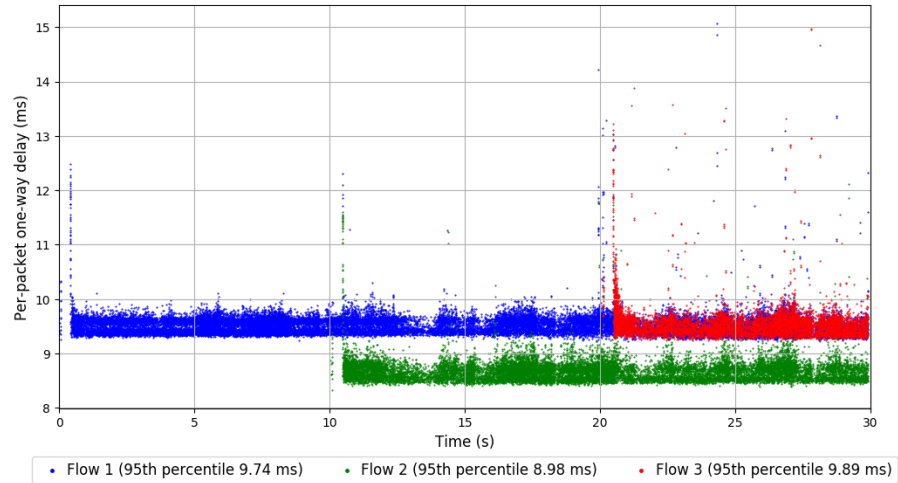
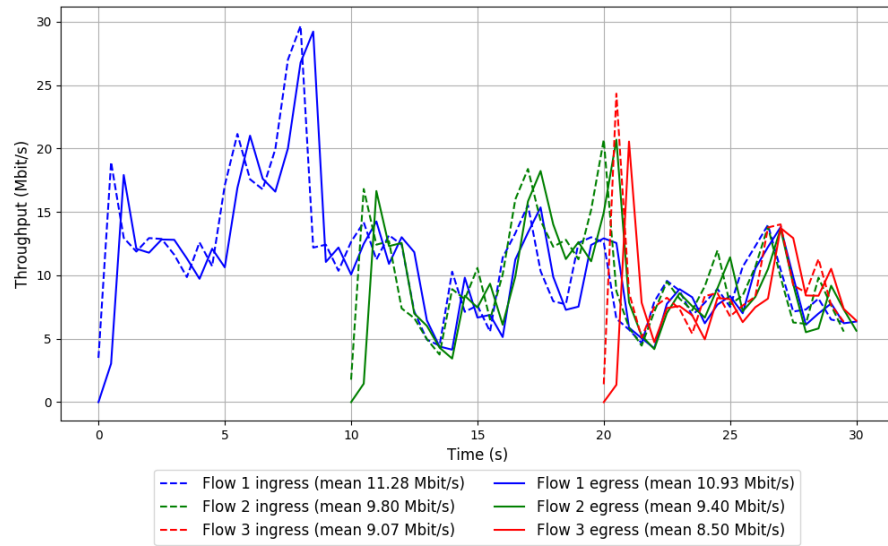


Run 1: Statistics of QUIC Cubic

Start at: 2018-08-22 02:41:17  
End at: 2018-08-22 02:41:47  
Local clock offset: 0.903 ms  
Remote clock offset: -60.035 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 19.98 Mbit/s  
95th percentile per-packet one-way delay: 9.724 ms  
Loss rate: 3.88%  
-- Flow 1:  
Average throughput: 10.93 Mbit/s  
95th percentile per-packet one-way delay: 9.739 ms  
Loss rate: 3.11%  
-- Flow 2:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 8.978 ms  
Loss rate: 4.11%  
-- Flow 3:  
Average throughput: 8.50 Mbit/s  
95th percentile per-packet one-way delay: 9.894 ms  
Loss rate: 6.29%

## Run 1: Report of QUIC Cubic — Data Link



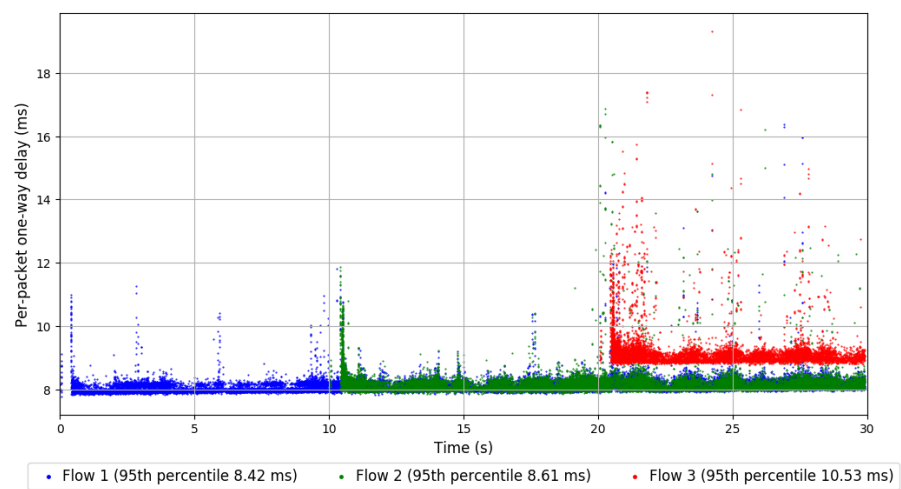
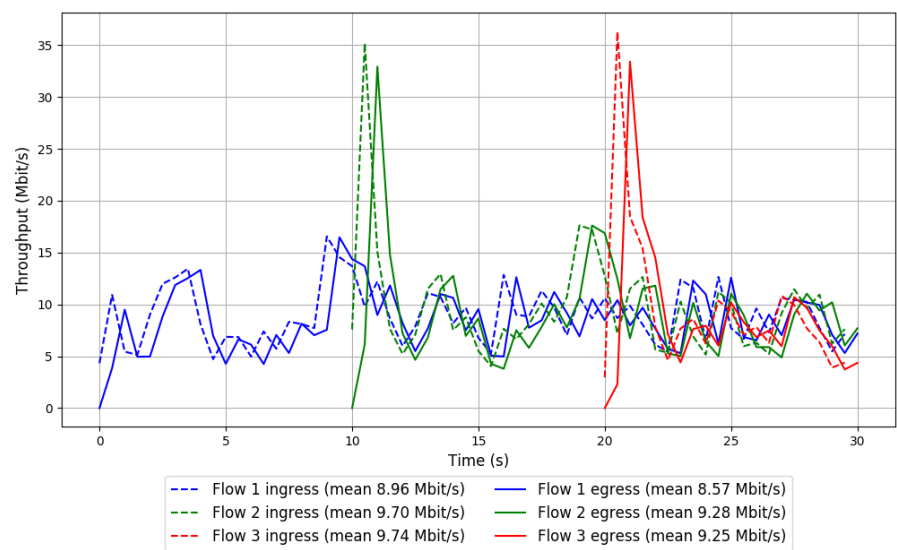
Run 2: Statistics of QUIC Cubic

Start at: 2018-08-22 03:00:48  
End at: 2018-08-22 03:01:18  
Local clock offset: 0.713 ms  
Remote clock offset: -60.458 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.79 Mbit/s  
95th percentile per-packet one-way delay: 9.251 ms  
Loss rate: 4.49%  
-- Flow 1:  
Average throughput: 8.57 Mbit/s  
95th percentile per-packet one-way delay: 8.421 ms  
Loss rate: 4.38%  
-- Flow 2:  
Average throughput: 9.28 Mbit/s  
95th percentile per-packet one-way delay: 8.610 ms  
Loss rate: 4.37%  
-- Flow 3:  
Average throughput: 9.25 Mbit/s  
95th percentile per-packet one-way delay: 10.531 ms  
Loss rate: 5.03%



Run 2: Report of QUIC Cubic — Data Link

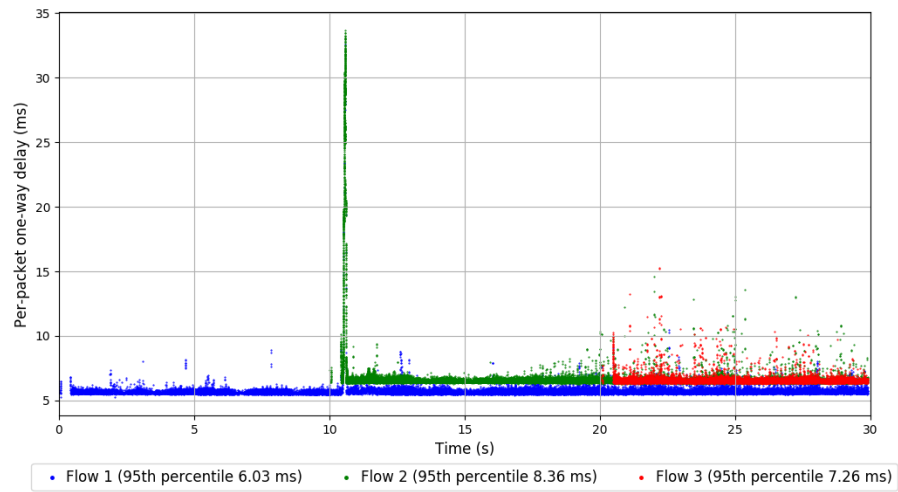
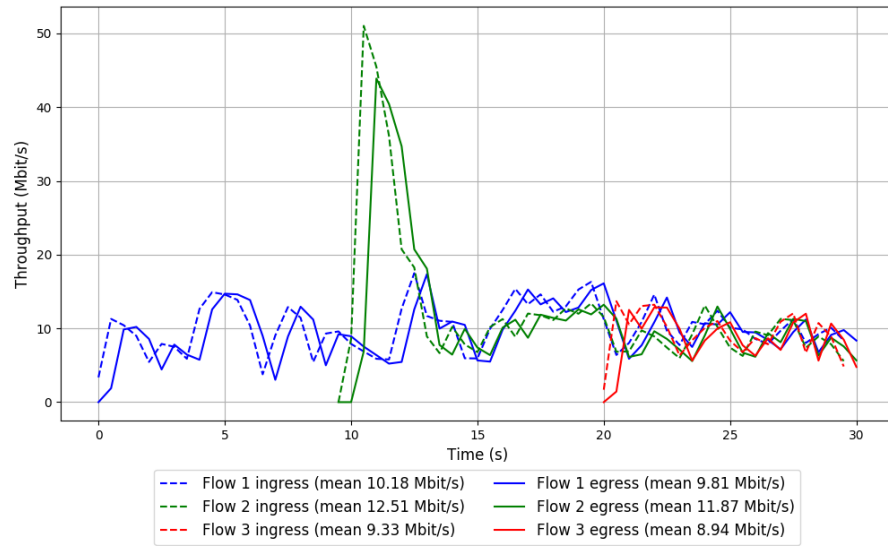


Run 3: Statistics of QUIC Cubic

Start at: 2018-08-22 03:20:21  
End at: 2018-08-22 03:20:51  
Local clock offset: 1.428 ms  
Remote clock offset: -63.206 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.66 Mbit/s  
95th percentile per-packet one-way delay: 6.954 ms  
Loss rate: 4.31%  
-- Flow 1:  
Average throughput: 9.81 Mbit/s  
95th percentile per-packet one-way delay: 6.030 ms  
Loss rate: 3.68%  
-- Flow 2:  
Average throughput: 11.87 Mbit/s  
95th percentile per-packet one-way delay: 8.358 ms  
Loss rate: 5.16%  
-- Flow 3:  
Average throughput: 8.94 Mbit/s  
95th percentile per-packet one-way delay: 7.259 ms  
Loss rate: 4.09%

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

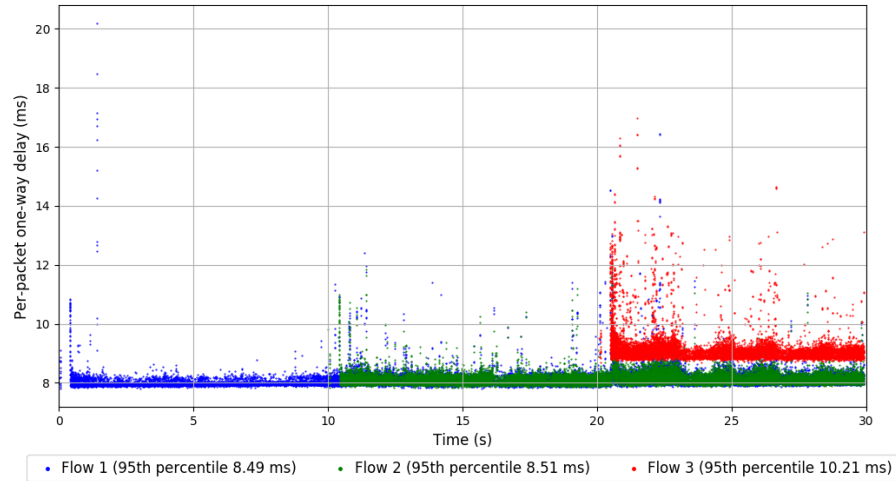
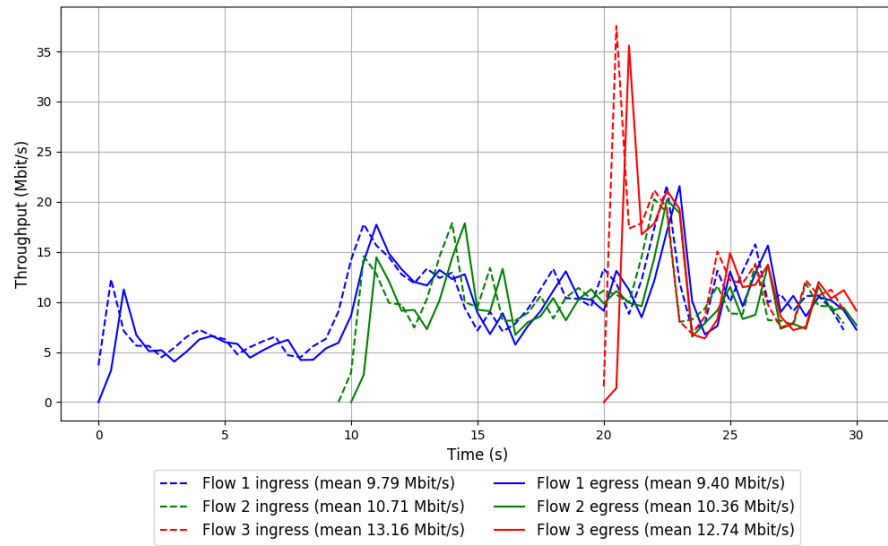


Run 4: Statistics of QUIC Cubic

Start at: 2018-08-22 03:40:13  
End at: 2018-08-22 03:40:43  
Local clock offset: -0.375 ms  
Remote clock offset: -62.467 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 20.49 Mbit/s  
95th percentile per-packet one-way delay: 9.255 ms  
Loss rate: 3.59%  
-- Flow 1:  
Average throughput: 9.40 Mbit/s  
95th percentile per-packet one-way delay: 8.488 ms  
Loss rate: 3.98%  
-- Flow 2:  
Average throughput: 10.36 Mbit/s  
95th percentile per-packet one-way delay: 8.508 ms  
Loss rate: 3.28%  
-- Flow 3:  
Average throughput: 12.74 Mbit/s  
95th percentile per-packet one-way delay: 10.206 ms  
Loss rate: 3.19%

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

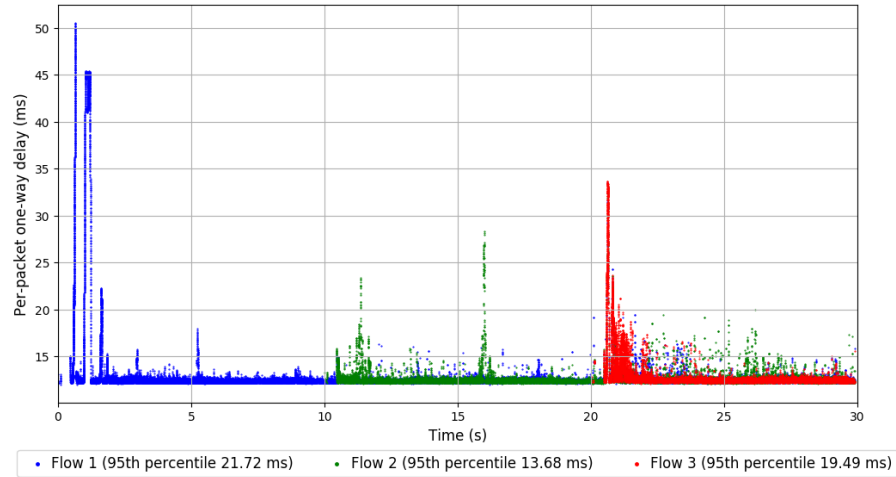
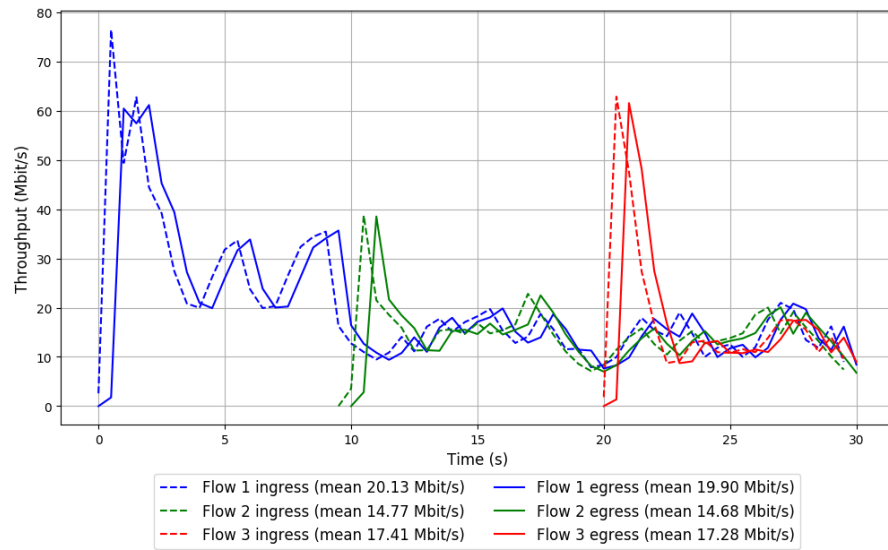


Run 5: Statistics of QUIC Cubic

Start at: 2018-08-22 03:59:51  
End at: 2018-08-22 04:00:21  
Local clock offset: 3.648 ms  
Remote clock offset: -62.043 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.38 Mbit/s  
95th percentile per-packet one-way delay: 17.378 ms  
Loss rate: 0.95%  
-- Flow 1:  
Average throughput: 19.90 Mbit/s  
95th percentile per-packet one-way delay: 21.724 ms  
Loss rate: 1.14%  
-- Flow 2:  
Average throughput: 14.68 Mbit/s  
95th percentile per-packet one-way delay: 13.677 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 17.28 Mbit/s  
95th percentile per-packet one-way delay: 19.490 ms  
Loss rate: 0.75%

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



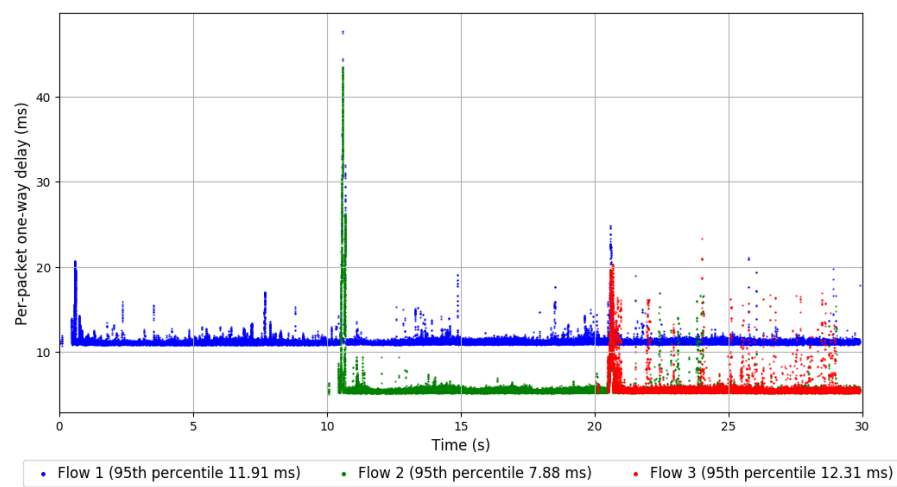
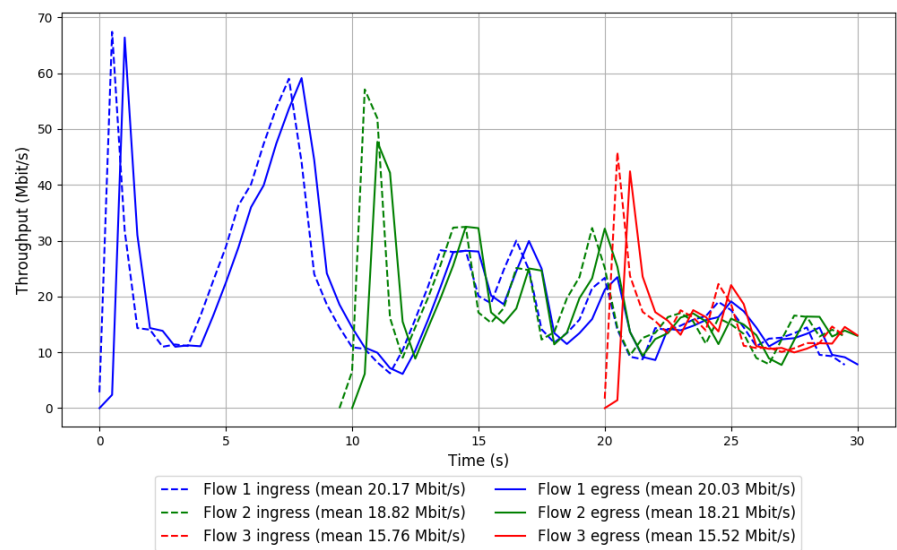
Run 6: Statistics of QUIC Cubic

Start at: 2018-08-22 04:19:21  
End at: 2018-08-22 04:19:51  
Local clock offset: 4.202 ms  
Remote clock offset: -63.577 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.26 Mbit/s  
95th percentile per-packet one-way delay: 11.786 ms  
Loss rate: 1.64%  
-- Flow 1:  
Average throughput: 20.03 Mbit/s  
95th percentile per-packet one-way delay: 11.907 ms  
Loss rate: 0.67%  
-- Flow 2:  
Average throughput: 18.21 Mbit/s  
95th percentile per-packet one-way delay: 7.875 ms  
Loss rate: 3.23%  
-- Flow 3:  
Average throughput: 15.52 Mbit/s  
95th percentile per-packet one-way delay: 12.306 ms  
Loss rate: 1.54%



Run 6: Report of QUIC Cubic — Data Link

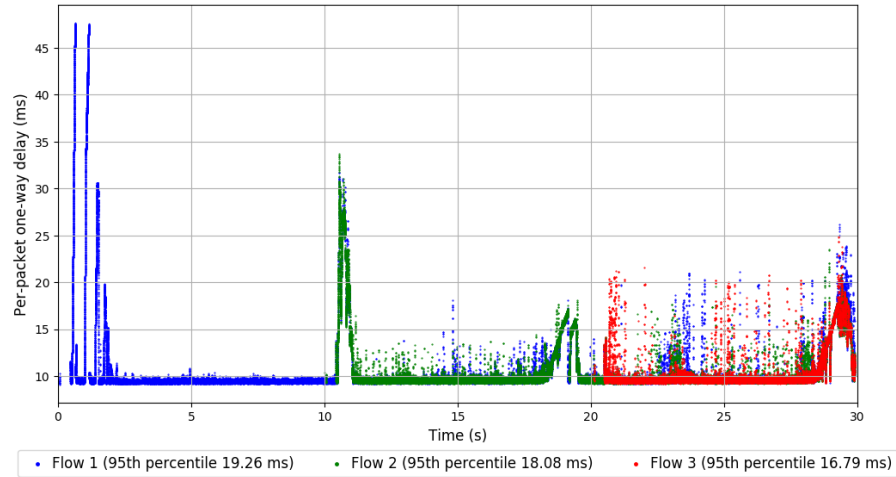
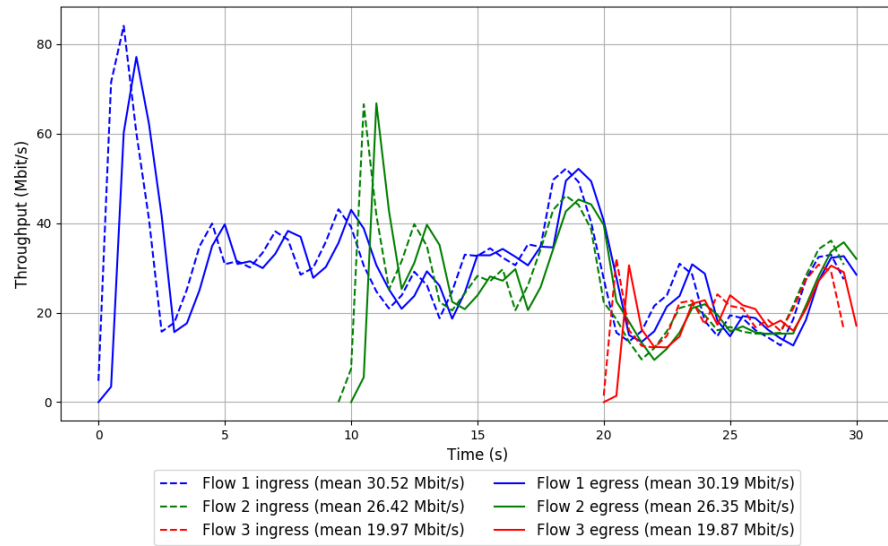


Run 7: Statistics of QUIC Cubic

Start at: 2018-08-22 04:38:58  
End at: 2018-08-22 04:39:28  
Local clock offset: -0.126 ms  
Remote clock offset: -64.894 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 54.27 Mbit/s  
95th percentile per-packet one-way delay: 18.116 ms  
Loss rate: 0.74%  
-- Flow 1:  
Average throughput: 30.19 Mbit/s  
95th percentile per-packet one-way delay: 19.258 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 26.35 Mbit/s  
95th percentile per-packet one-way delay: 18.077 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 19.87 Mbit/s  
95th percentile per-packet one-way delay: 16.785 ms  
Loss rate: 0.53%

## Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-08-22 04:58:29

End at: 2018-08-22 04:58:59

Local clock offset: 2.663 ms

Remote clock offset: -63.6 ms

# Below is generated by plot.py at 2018-08-22 05:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 33.31 Mbit/s

95th percentile per-packet one-way delay: 8.806 ms

Loss rate: 2.37%

-- Flow 1:

Average throughput: 18.74 Mbit/s

95th percentile per-packet one-way delay: 7.695 ms

Loss rate: 1.23%

-- Flow 2:

Average throughput: 15.07 Mbit/s

95th percentile per-packet one-way delay: 12.034 ms

Loss rate: 4.77%

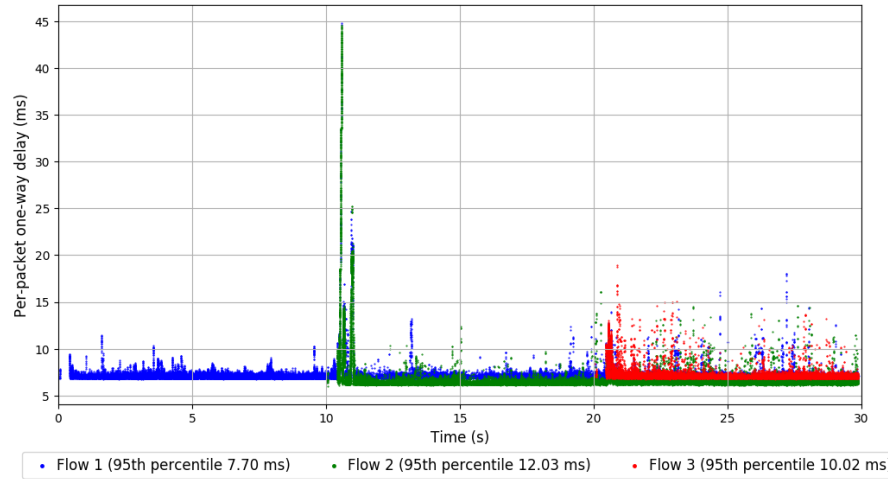
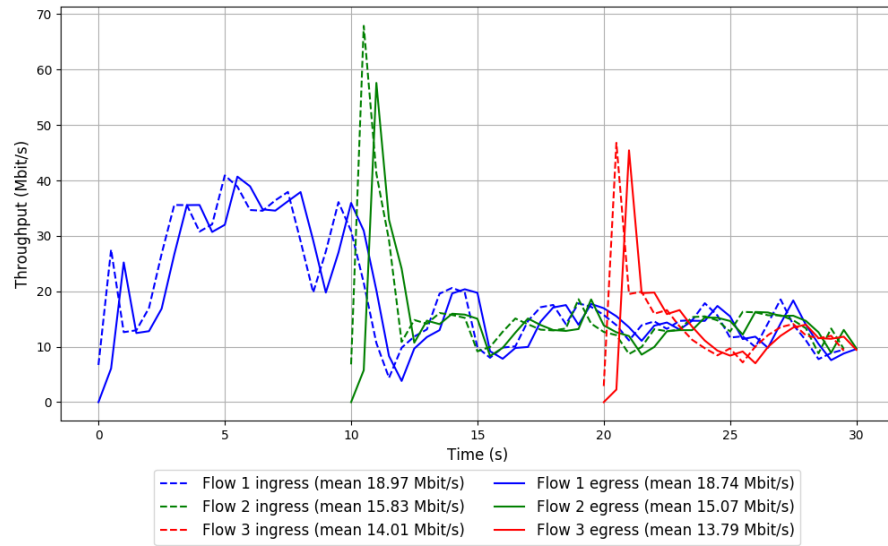
-- Flow 3:

Average throughput: 13.79 Mbit/s

95th percentile per-packet one-way delay: 10.020 ms

Loss rate: 1.59%

## Run 8: Report of QUIC Cubic — Data Link

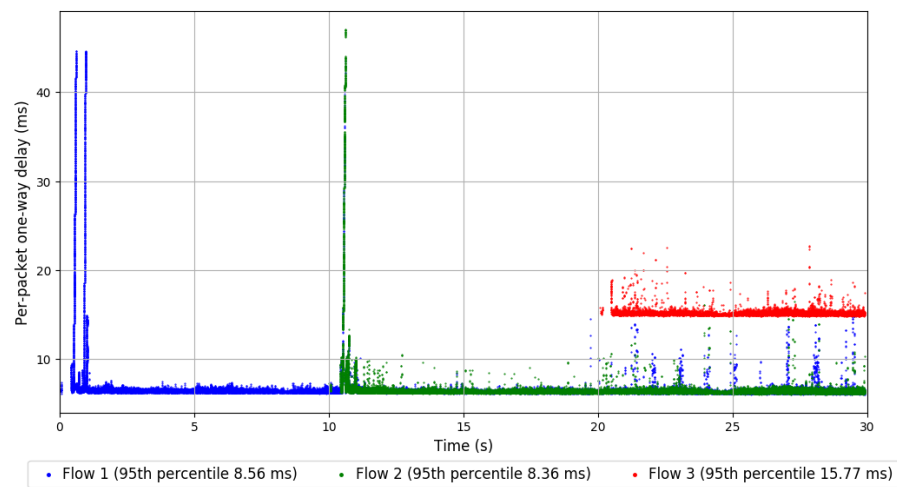
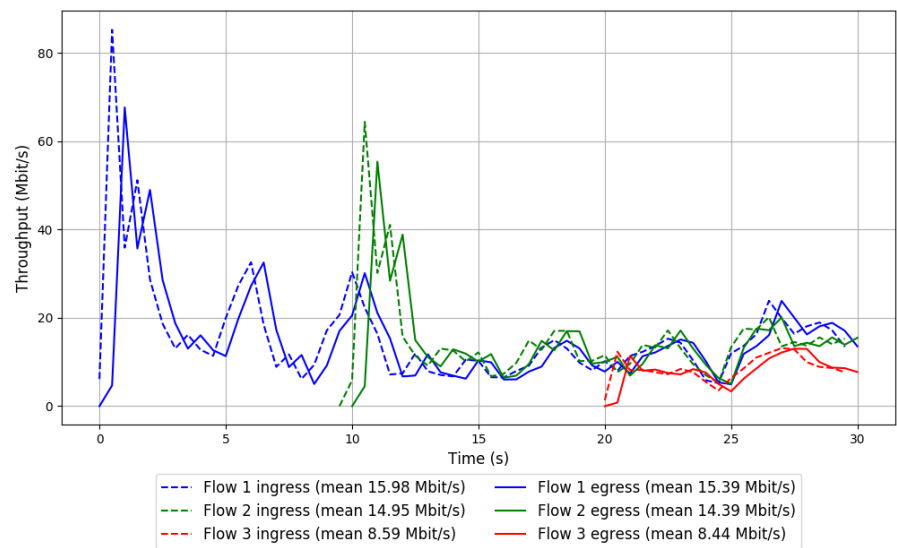


Run 9: Statistics of QUIC Cubic

Start at: 2018-08-22 05:18:09  
End at: 2018-08-22 05:18:39  
Local clock offset: 2.417 ms  
Remote clock offset: -62.571 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.75 Mbit/s  
95th percentile per-packet one-way delay: 15.275 ms  
Loss rate: 3.51%  
-- Flow 1:  
Average throughput: 15.39 Mbit/s  
95th percentile per-packet one-way delay: 8.559 ms  
Loss rate: 3.67%  
-- Flow 2:  
Average throughput: 14.39 Mbit/s  
95th percentile per-packet one-way delay: 8.357 ms  
Loss rate: 3.74%  
-- Flow 3:  
Average throughput: 8.44 Mbit/s  
95th percentile per-packet one-way delay: 15.768 ms  
Loss rate: 1.80%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-08-22 05:37:47

End at: 2018-08-22 05:38:17

Local clock offset: 0.837 ms

Remote clock offset: -58.639 ms

# Below is generated by plot.py at 2018-08-22 05:58:58

# Datalink statistics

-- Total of 3 flows:

Average throughput: 31.79 Mbit/s

95th percentile per-packet one-way delay: 18.876 ms

Loss rate: 2.56%

-- Flow 1:

Average throughput: 16.95 Mbit/s

95th percentile per-packet one-way delay: 20.091 ms

Loss rate: 3.68%

-- Flow 2:

Average throughput: 13.48 Mbit/s

95th percentile per-packet one-way delay: 17.925 ms

Loss rate: 0.81%

-- Flow 3:

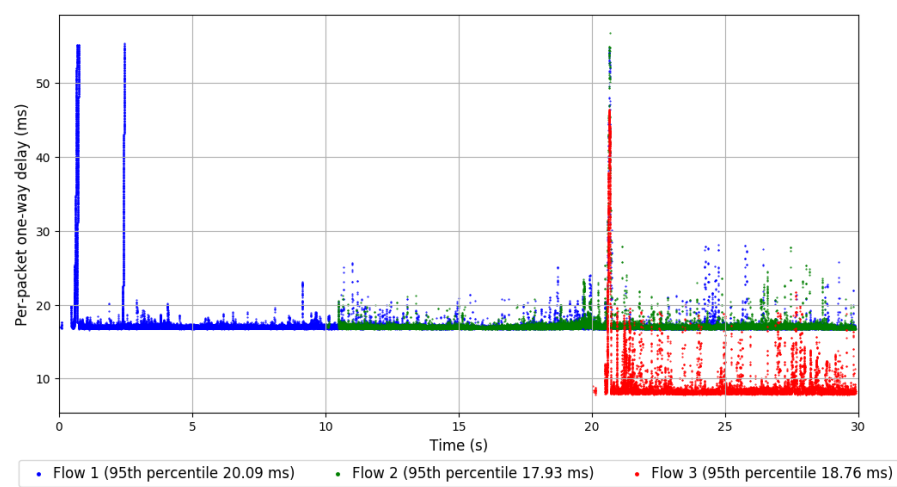
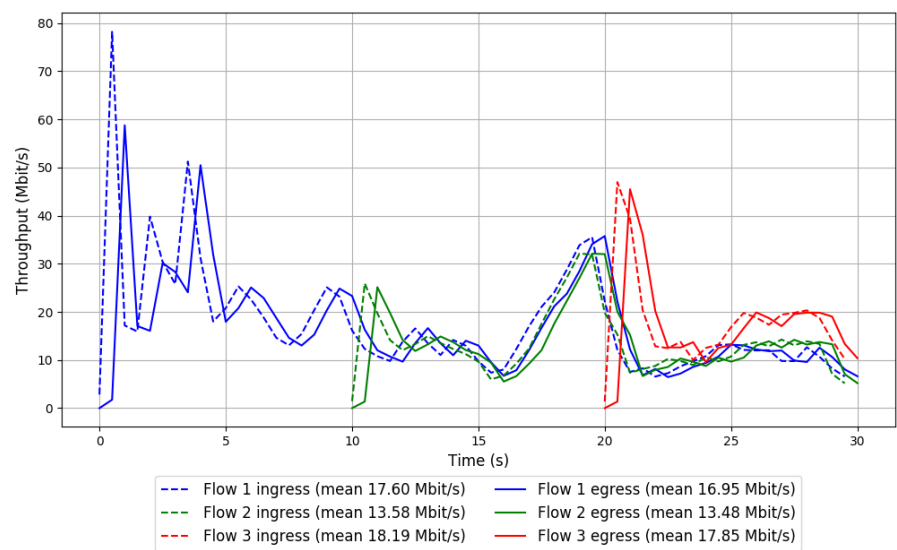
Average throughput: 17.85 Mbit/s

95th percentile per-packet one-way delay: 18.762 ms

Loss rate: 1.87%



Run 10: Report of QUIC Cubic — Data Link

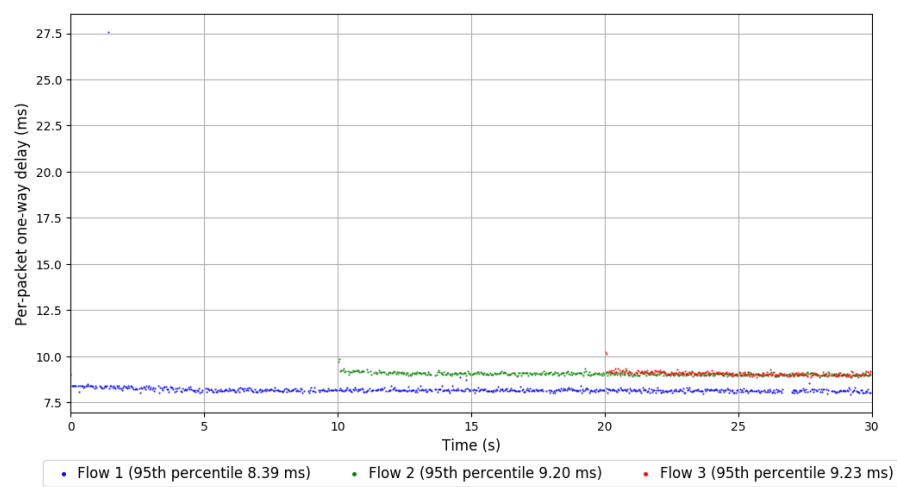
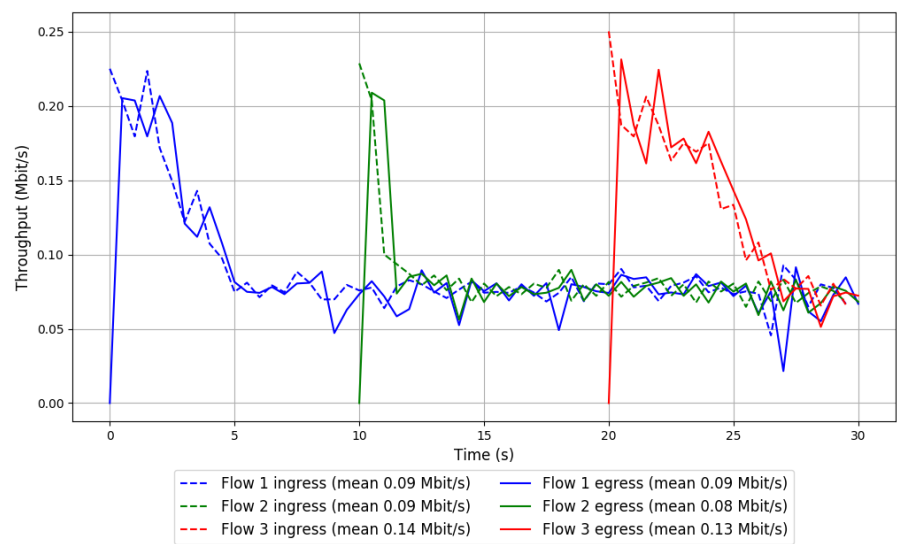


Run 1: Statistics of SCReAM

Start at: 2018-08-22 02:31:00  
End at: 2018-08-22 02:31:30  
Local clock offset: 0.808 ms  
Remote clock offset: -61.481 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 9.170 ms  
Loss rate: 3.59%  
-- Flow 1:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 8.388 ms  
Loss rate: 4.23%  
-- Flow 2:  
Average throughput: 0.08 Mbit/s  
95th percentile per-packet one-way delay: 9.200 ms  
Loss rate: 3.11%  
-- Flow 3:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 9.229 ms  
Loss rate: 2.91%

Run 1: Report of SReAM — Data Link

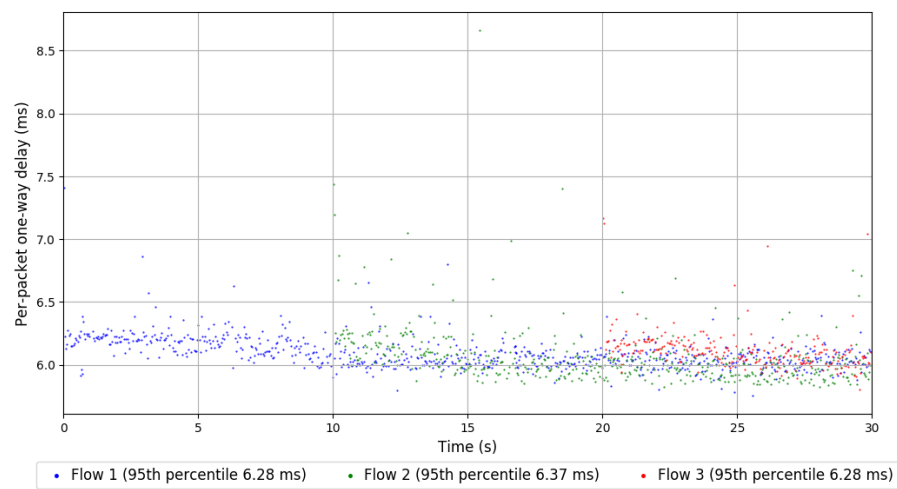
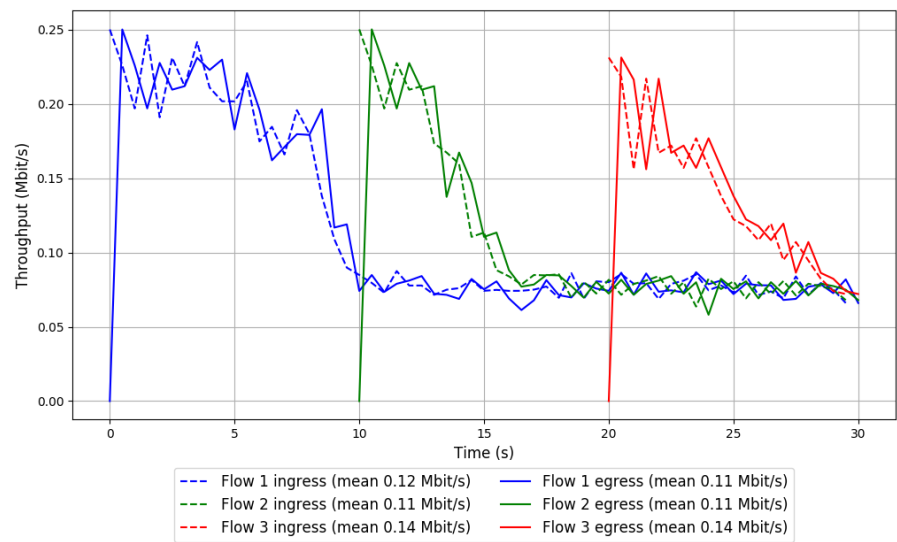


```
Run 2: Statistics of SCReAM

Start at: 2018-08-22 02:50:23
End at: 2018-08-22 02:50:53
Local clock offset: 2.186 ms
Remote clock offset: -60.576 ms

# Below is generated by plot.py at 2018-08-22 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 6.302 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 6.277 ms
Loss rate: 1.47%
-- Flow 2:
Average throughput: 0.11 Mbit/s
95th percentile per-packet one-way delay: 6.371 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 6.275 ms
Loss rate: 0.67%
```

Run 2: Report of SReAM — Data Link

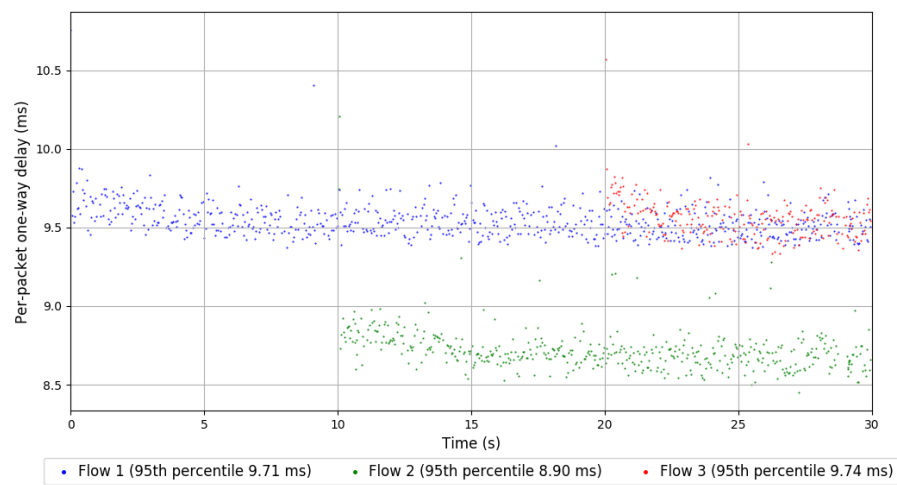
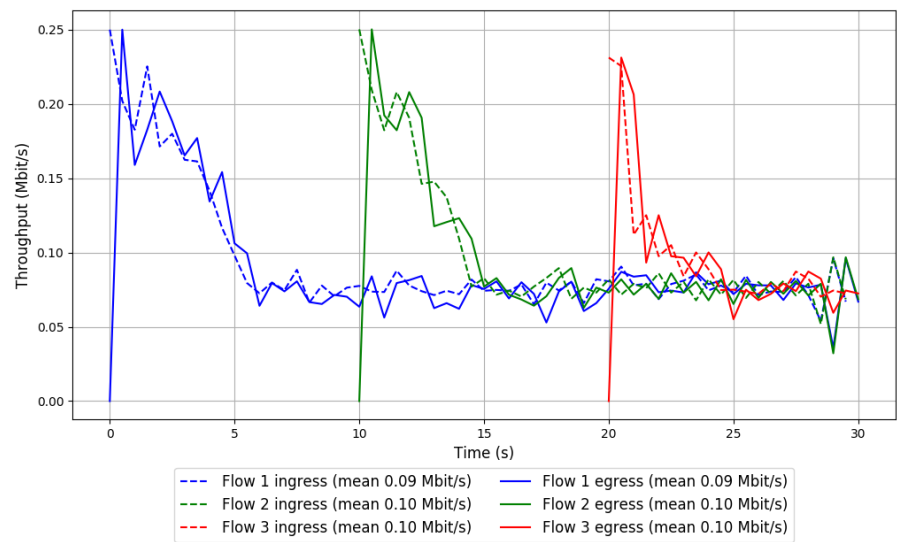


Run 3: Statistics of SCReAM

Start at: 2018-08-22 03:09:52  
End at: 2018-08-22 03:10:22  
Local clock offset: -0.786 ms  
Remote clock offset: -62.423 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 9.701 ms  
Loss rate: 3.70%  
-- Flow 1:  
Average throughput: 0.09 Mbit/s  
95th percentile per-packet one-way delay: 9.711 ms  
Loss rate: 3.57%  
-- Flow 2:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 8.899 ms  
Loss rate: 3.67%  
-- Flow 3:  
Average throughput: 0.10 Mbit/s  
95th percentile per-packet one-way delay: 9.741 ms  
Loss rate: 4.12%

Run 3: Report of SReAM — Data Link



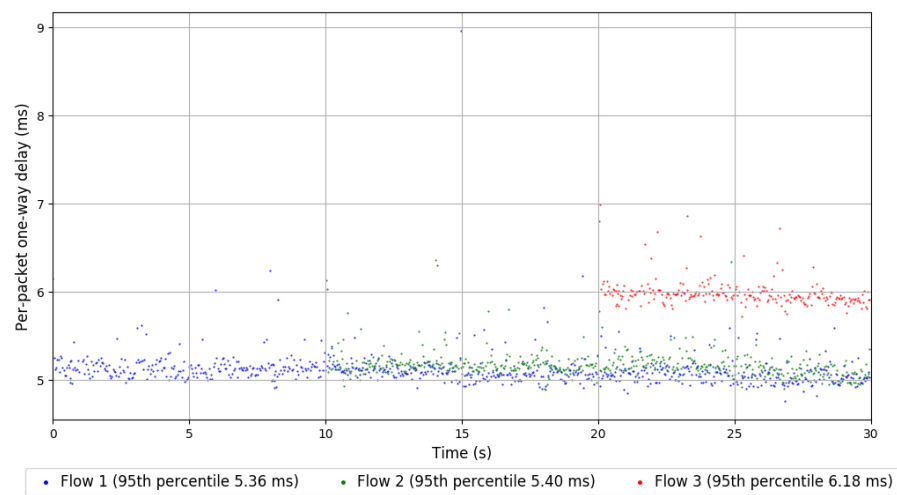
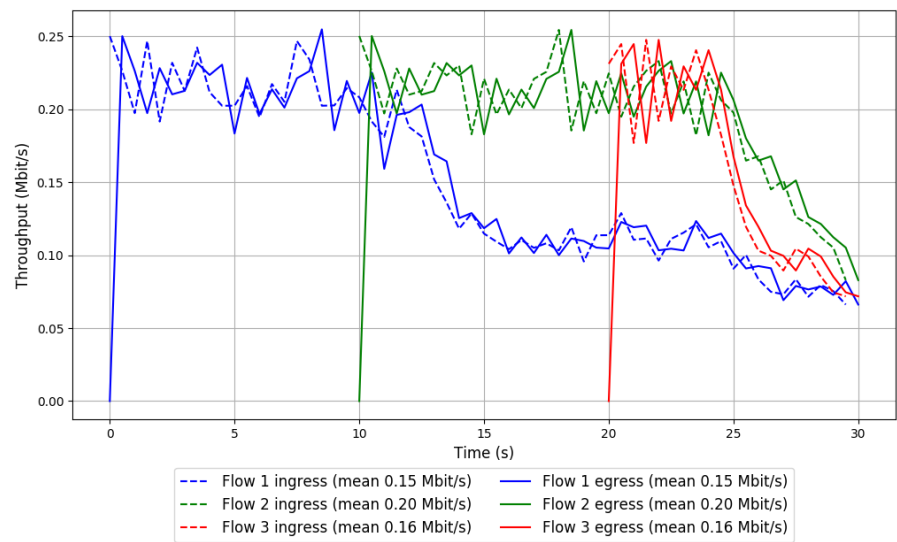
Run 4: Statistics of SCReAM

Start at: 2018-08-22 03:29:37  
End at: 2018-08-22 03:30:07  
Local clock offset: 1.703 ms  
Remote clock offset: -63.536 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 6.008 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 5.361 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 5.402 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 6.185 ms  
Loss rate: 0.90%



Run 4: Report of SReAM — Data Link

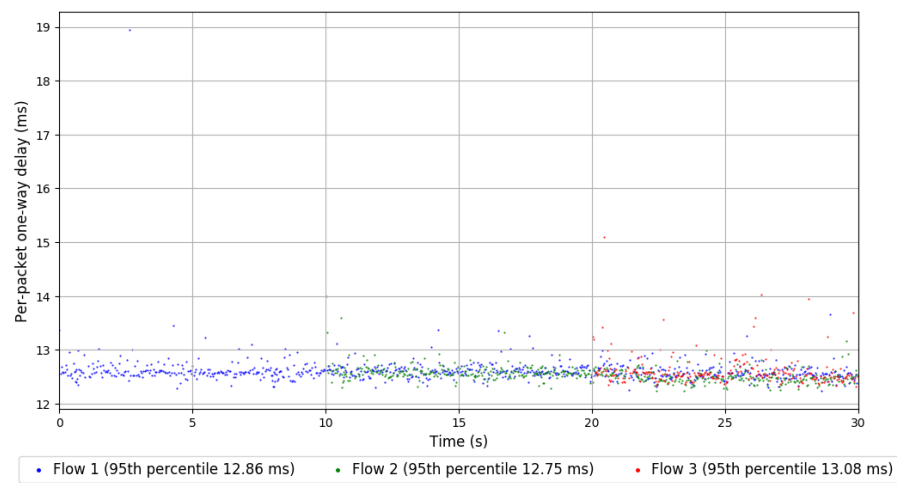
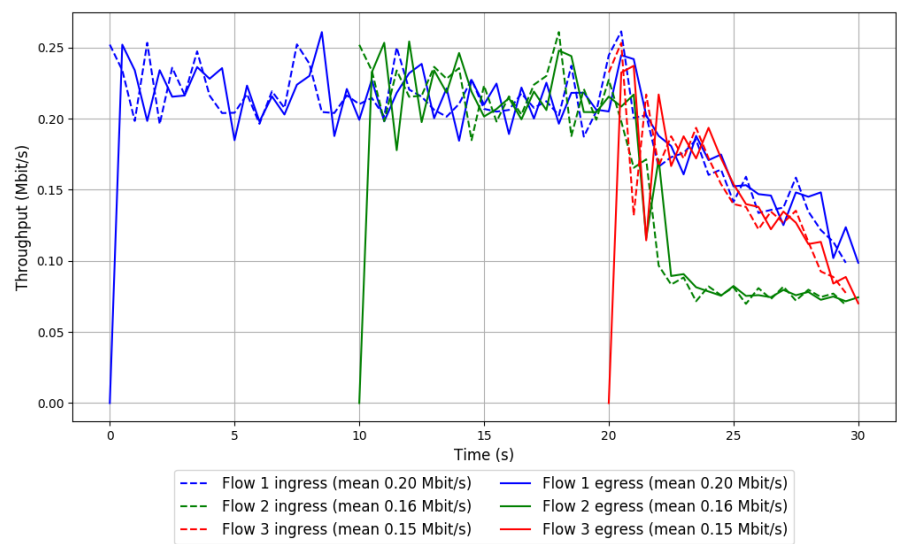


Run 5: Statistics of SCReAM

Start at: 2018-08-22 03:49:25  
End at: 2018-08-22 03:49:55  
Local clock offset: 2.763 ms  
Remote clock offset: -62.292 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.35 Mbit/s  
95th percentile per-packet one-way delay: 12.855 ms  
Loss rate: 0.73%  
-- Flow 1:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 12.856 ms  
Loss rate: 0.23%  
-- Flow 2:  
Average throughput: 0.16 Mbit/s  
95th percentile per-packet one-way delay: 12.748 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 0.15 Mbit/s  
95th percentile per-packet one-way delay: 13.084 ms  
Loss rate: 2.39%

Run 5: Report of SReAM — Data Link

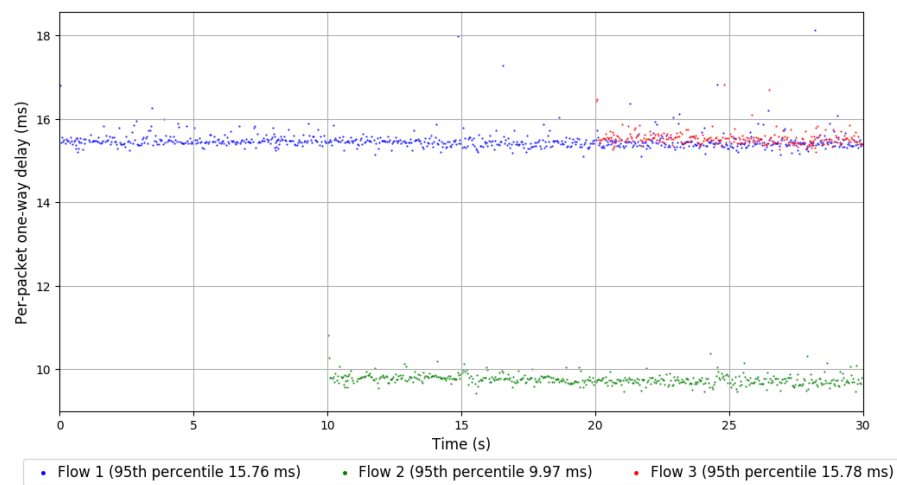
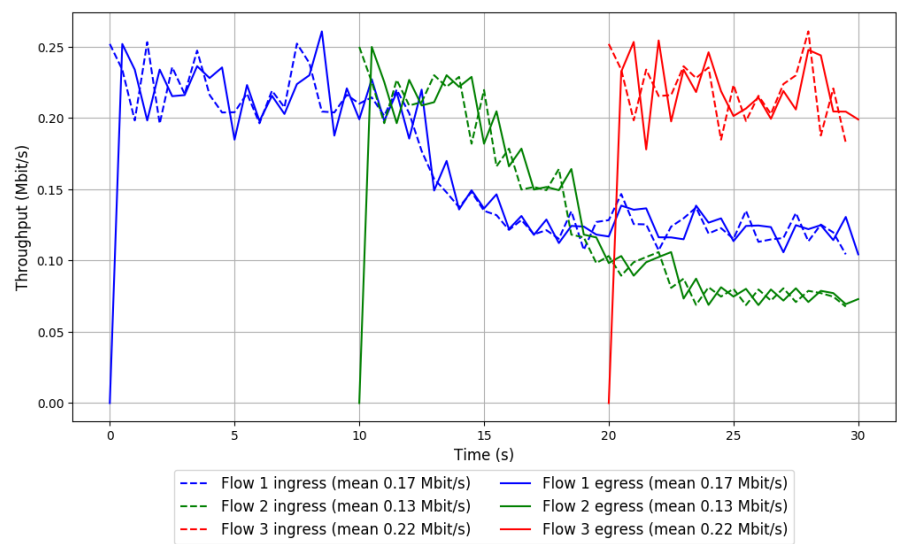


Run 6: Statistics of SReAM

Start at: 2018-08-22 04:09:00  
End at: 2018-08-22 04:09:30  
Local clock offset: 0.703 ms  
Remote clock offset: -62.185 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 15.701 ms  
Loss rate: 0.28%  
-- Flow 1:  
Average throughput: 0.17 Mbit/s  
95th percentile per-packet one-way delay: 15.758 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 0.13 Mbit/s  
95th percentile per-packet one-way delay: 9.973 ms  
Loss rate: 0.42%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 15.778 ms  
Loss rate: 0.00%

Run 6: Report of SReAM — Data Link

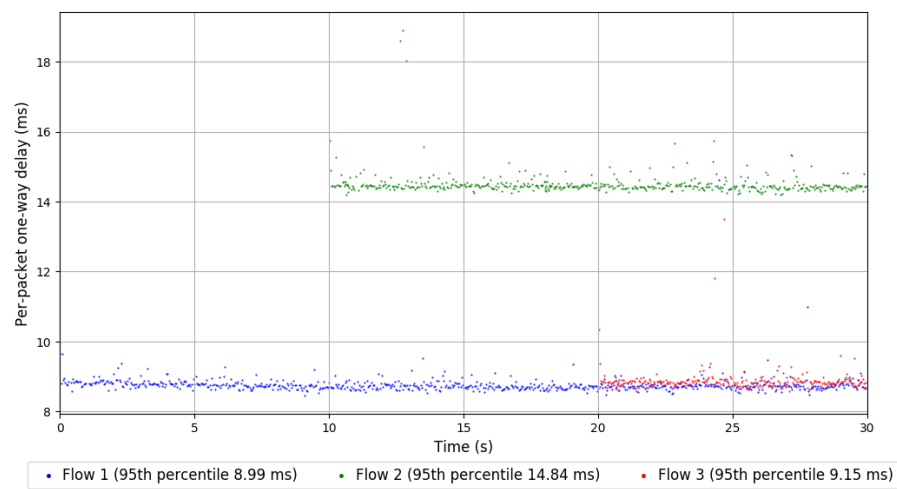
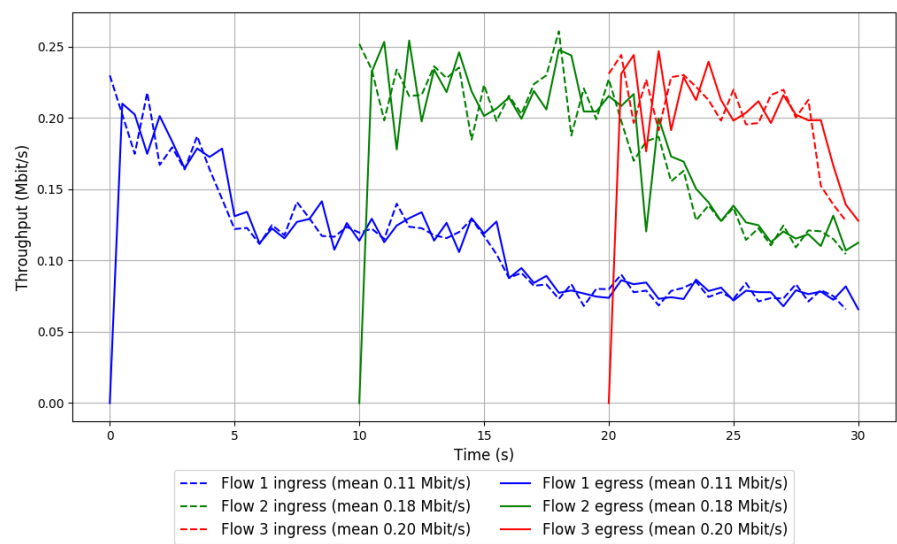


Run 7: Statistics of SReAM

Start at: 2018-08-22 04:28:37  
End at: 2018-08-22 04:29:07  
Local clock offset: 0.825 ms  
Remote clock offset: -63.98 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.30 Mbit/s  
95th percentile per-packet one-way delay: 14.561 ms  
Loss rate: 0.46%  
-- Flow 1:  
Average throughput: 0.11 Mbit/s  
95th percentile per-packet one-way delay: 8.994 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 0.18 Mbit/s  
95th percentile per-packet one-way delay: 14.836 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 0.20 Mbit/s  
95th percentile per-packet one-way delay: 9.150 ms  
Loss rate: 0.48%

Run 7: Report of SReAM — Data Link



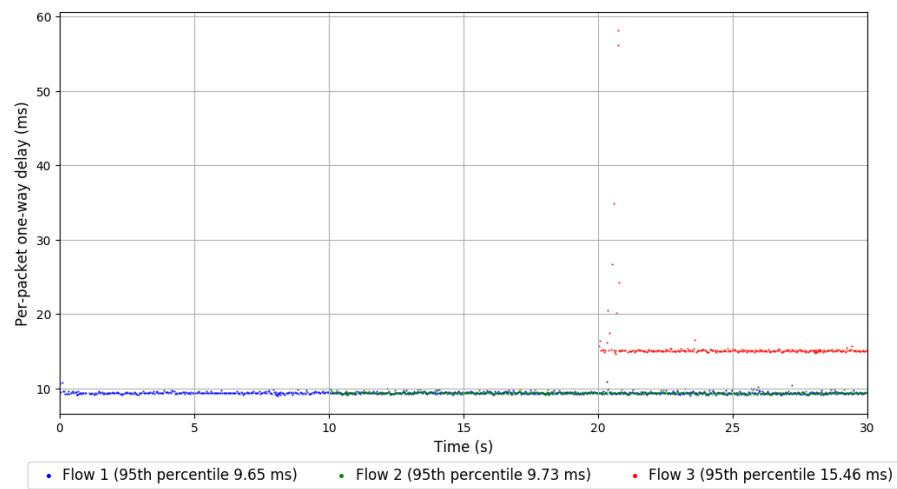
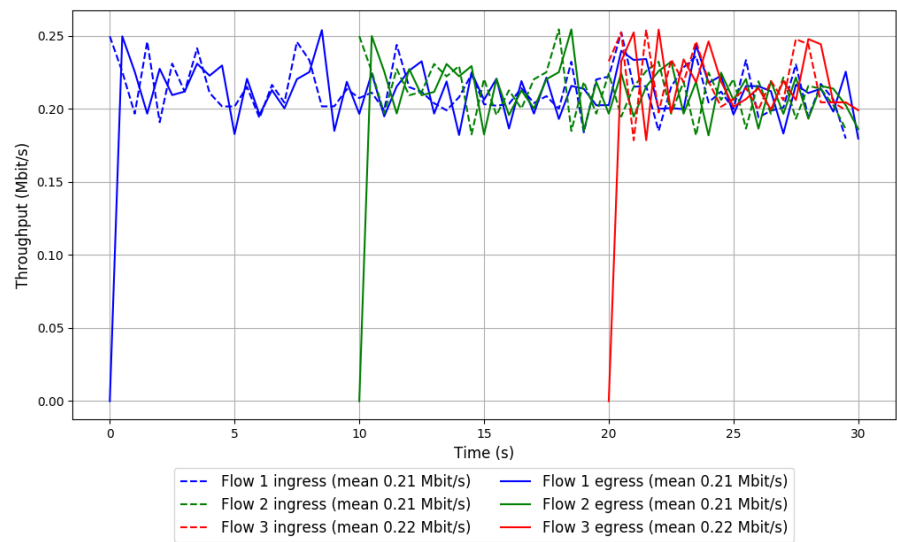
Run 8: Statistics of SReAM

Start at: 2018-08-22 04:48:09  
End at: 2018-08-22 04:48:39  
Local clock offset: 0.333 ms  
Remote clock offset: -63.942 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 15.109 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 9.653 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 9.735 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 15.460 ms  
Loss rate: 0.00%



Run 8: Report of SReAM — Data Link

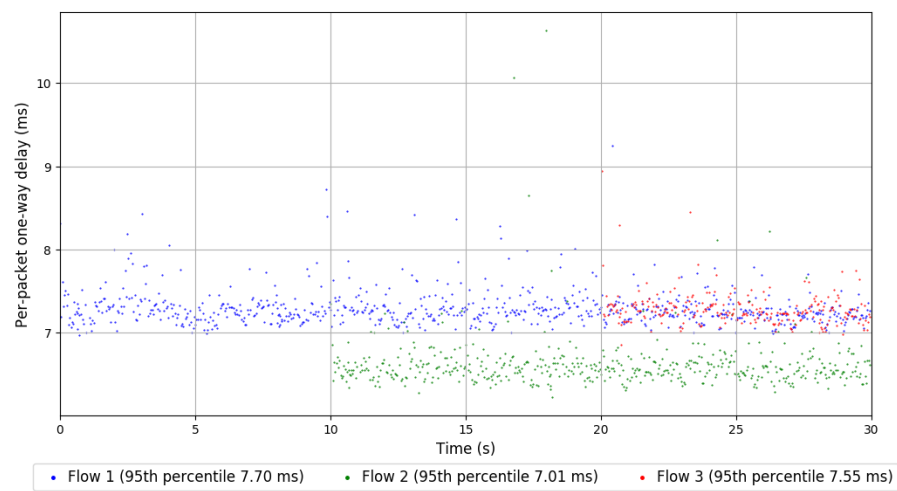
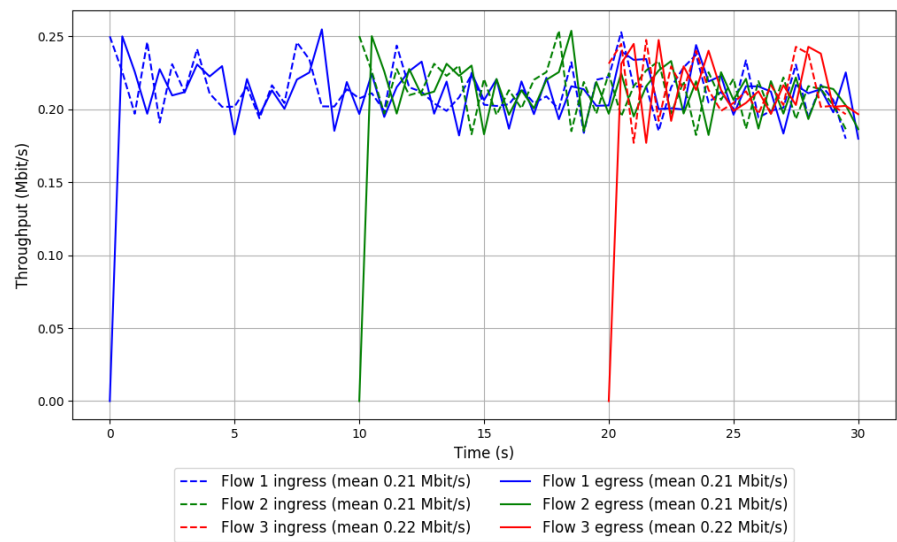


Run 9: Statistics of SReAM

Start at: 2018-08-22 05:07:42  
End at: 2018-08-22 05:08:12  
Local clock offset: 3.411 ms  
Remote clock offset: -62.427 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 7.580 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 7.704 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 7.014 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 7.546 ms  
Loss rate: 0.00%

Run 9: Report of SReAM — Data Link

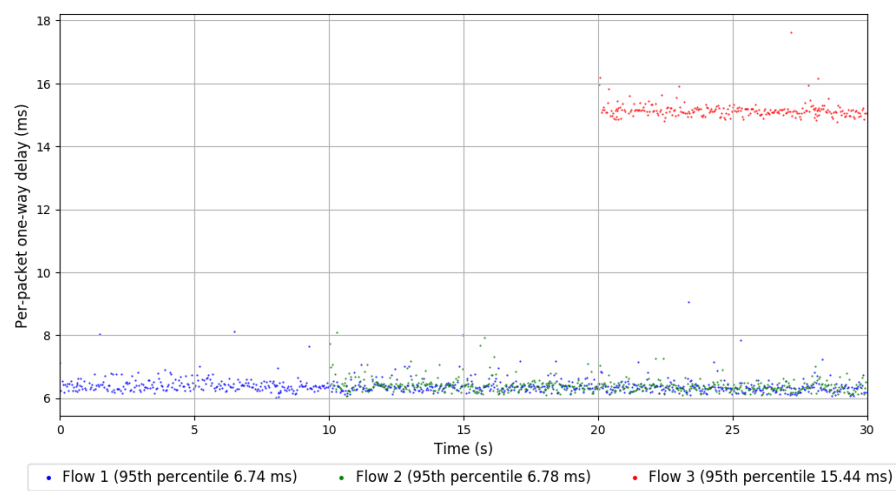
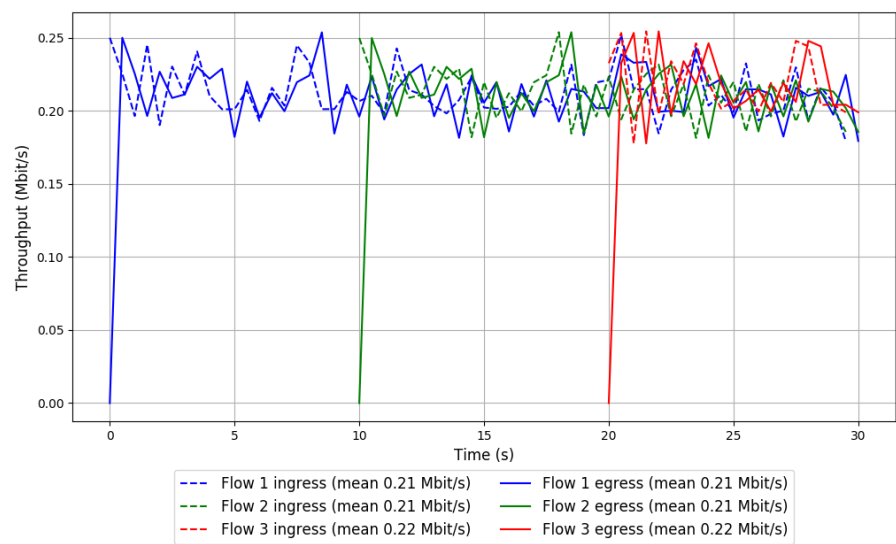


Run 10: Statistics of SReAM

Start at: 2018-08-22 05:27:26  
End at: 2018-08-22 05:27:56  
Local clock offset: 2.718 ms  
Remote clock offset: -59.935 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 15.188 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 6.740 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 6.783 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 15.440 ms  
Loss rate: 0.00%

Run 10: Report of SCReAM — Data Link

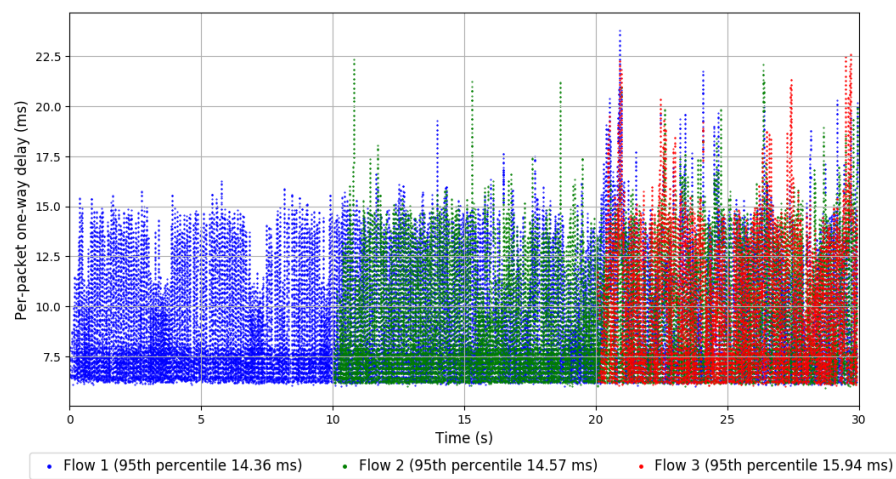
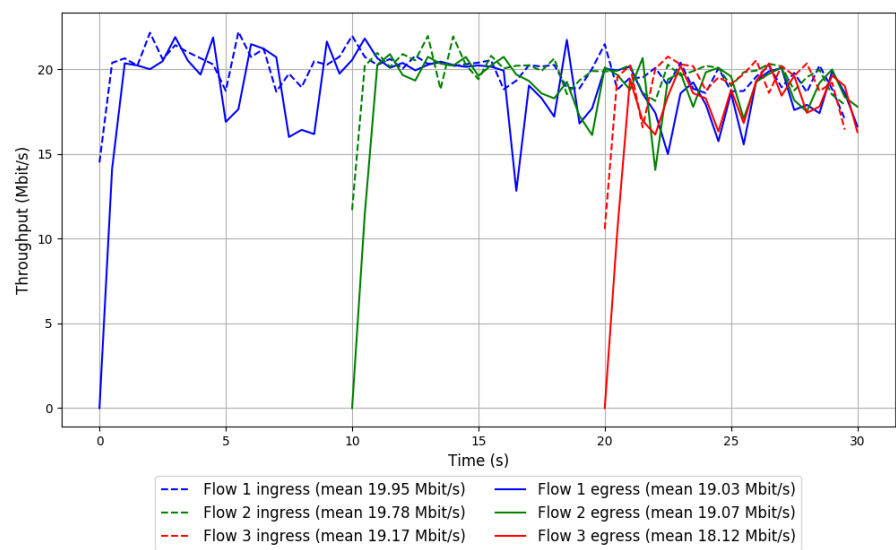


Run 1: Statistics of Sprout

Start at: 2018-08-22 02:36:41  
End at: 2018-08-22 02:37:11  
Local clock offset: 4.39 ms  
Remote clock offset: -60.277 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.70 Mbit/s  
95th percentile per-packet one-way delay: 14.603 ms  
Loss rate: 4.34%  
-- Flow 1:  
Average throughput: 19.03 Mbit/s  
95th percentile per-packet one-way delay: 14.357 ms  
Loss rate: 4.54%  
-- Flow 2:  
Average throughput: 19.07 Mbit/s  
95th percentile per-packet one-way delay: 14.567 ms  
Loss rate: 3.51%  
-- Flow 3:  
Average throughput: 18.12 Mbit/s  
95th percentile per-packet one-way delay: 15.941 ms  
Loss rate: 5.43%

Run 1: Report of Sprout — Data Link



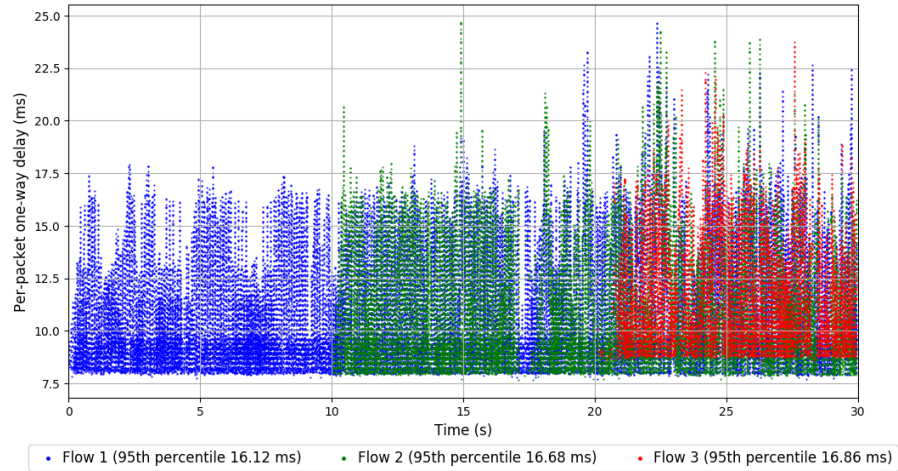
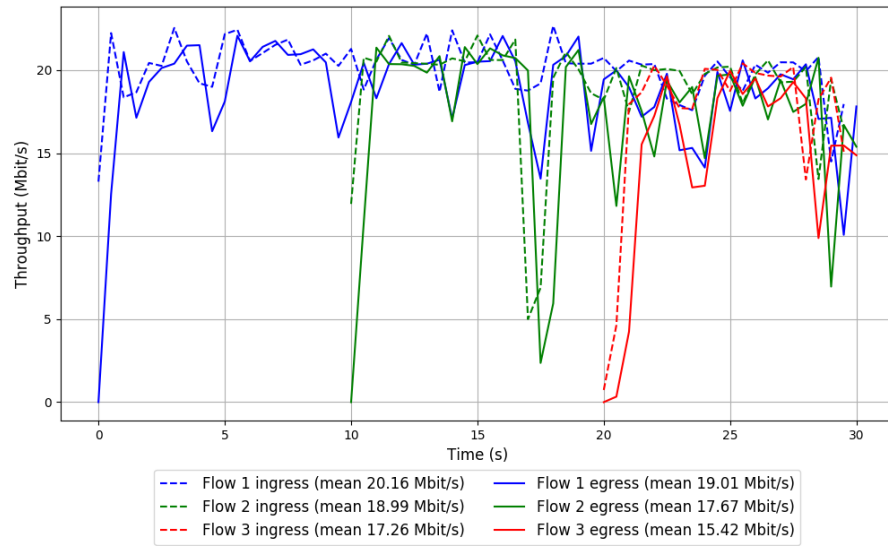
Run 2: Statistics of Sprout

Start at: 2018-08-22 02:56:11  
End at: 2018-08-22 02:56:41  
Local clock offset: 0.439 ms  
Remote clock offset: -60.132 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.87 Mbit/s  
95th percentile per-packet one-way delay: 16.379 ms  
Loss rate: 6.80%  
-- Flow 1:  
Average throughput: 19.01 Mbit/s  
95th percentile per-packet one-way delay: 16.116 ms  
Loss rate: 5.66%  
-- Flow 2:  
Average throughput: 17.67 Mbit/s  
95th percentile per-packet one-way delay: 16.676 ms  
Loss rate: 6.89%  
-- Flow 3:  
Average throughput: 15.42 Mbit/s  
95th percentile per-packet one-way delay: 16.859 ms  
Loss rate: 10.59%



## Run 2: Report of Sprout — Data Link

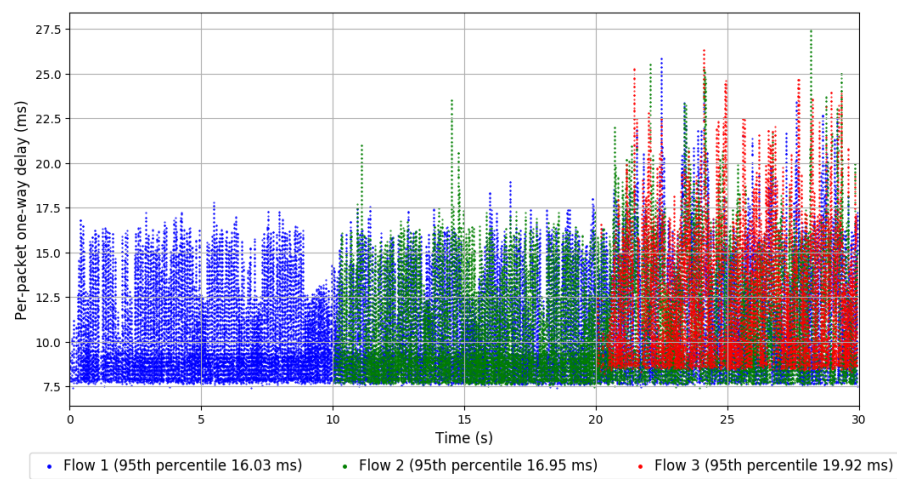
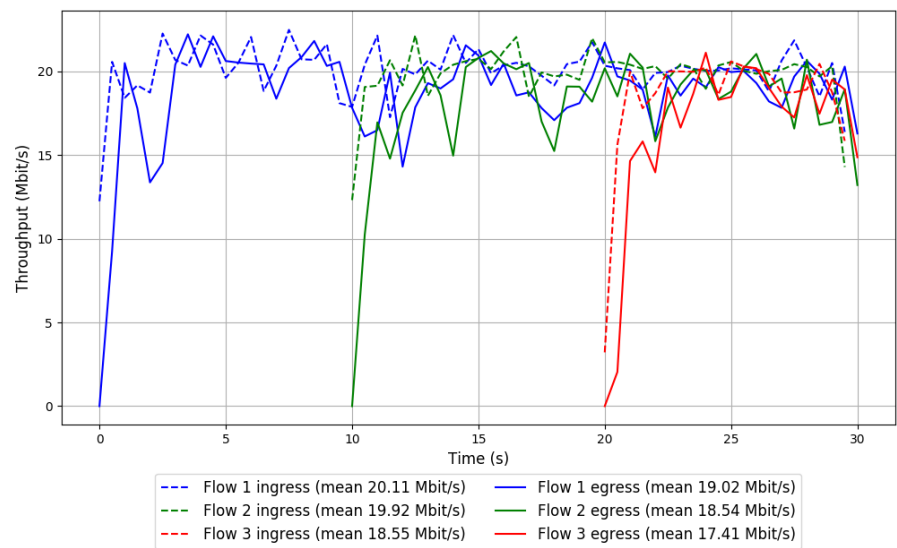


Run 3: Statistics of Sprout

Start at: 2018-08-22 03:15:44  
End at: 2018-08-22 03:16:14  
Local clock offset: 0.066 ms  
Remote clock offset: -62.518 ms

# Below is generated by plot.py at 2018-08-22 05:58:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 37.09 Mbit/s  
95th percentile per-packet one-way delay: 17.151 ms  
Loss rate: 6.05%  
-- Flow 1:  
Average throughput: 19.02 Mbit/s  
95th percentile per-packet one-way delay: 16.028 ms  
Loss rate: 5.42%  
-- Flow 2:  
Average throughput: 18.54 Mbit/s  
95th percentile per-packet one-way delay: 16.954 ms  
Loss rate: 6.95%  
-- Flow 3:  
Average throughput: 17.41 Mbit/s  
95th percentile per-packet one-way delay: 19.919 ms  
Loss rate: 6.16%

Run 3: Report of Sprout — Data Link

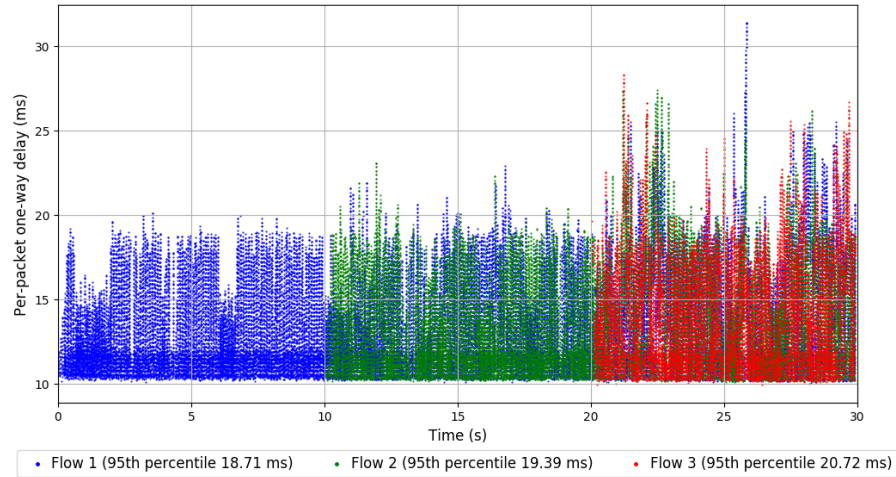
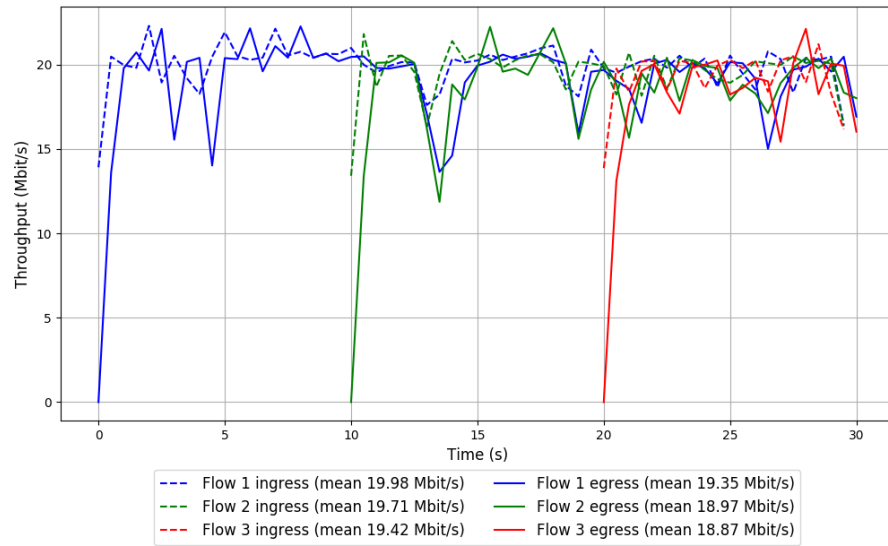


#### Run 4: Statistics of Sprout

Start at: 2018-08-22 03:35:24  
End at: 2018-08-22 03:35:54  
Local clock offset: -2.289 ms  
Remote clock offset: -62.554 ms

```
# Below is generated by plot.py at 2018-08-22 05:58:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 19.252 ms
Loss rate: 3.27%
-- Flow 1:
Average throughput: 19.35 Mbit/s
95th percentile per-packet one-way delay: 18.708 ms
Loss rate: 3.13%
-- Flow 2:
Average throughput: 18.97 Mbit/s
95th percentile per-packet one-way delay: 19.395 ms
Loss rate: 3.69%
-- Flow 3:
Average throughput: 18.87 Mbit/s
95th percentile per-packet one-way delay: 20.721 ms
Loss rate: 2.86%
```

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

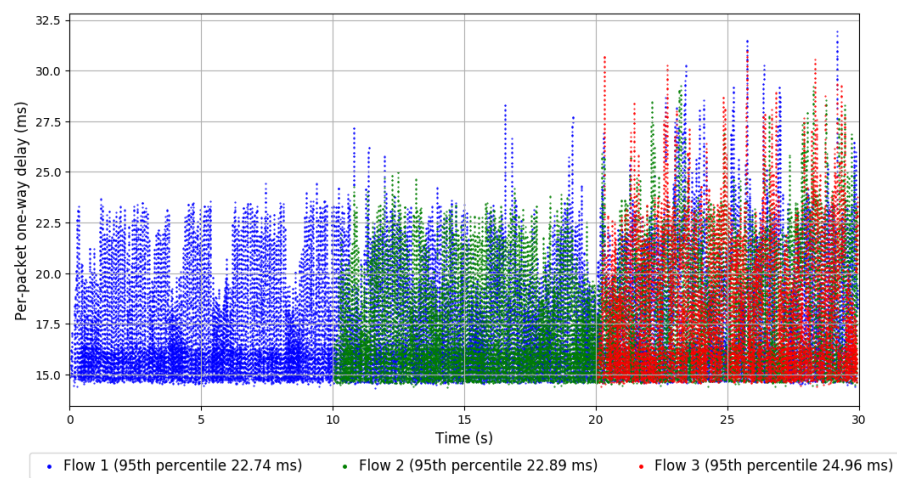
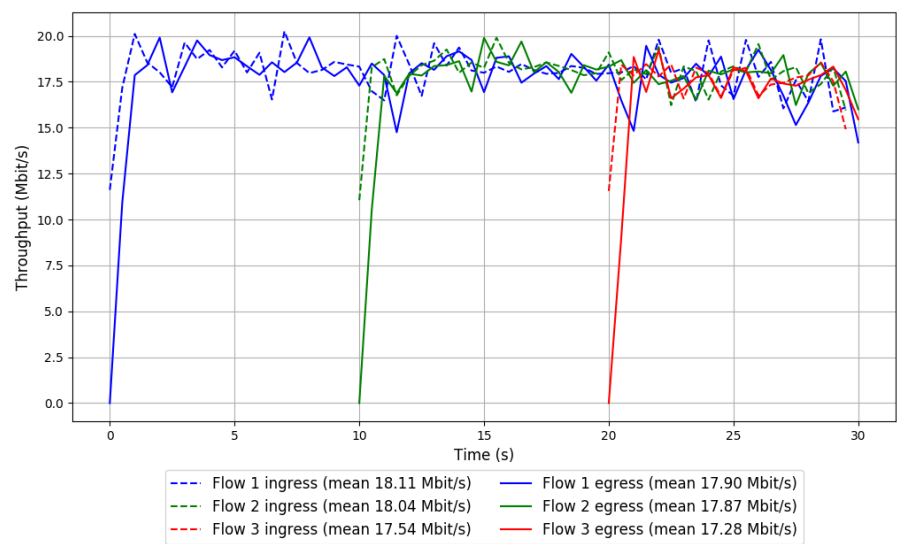


Run 5: Statistics of Sprout

Start at: 2018-08-22 03:55:10  
End at: 2018-08-22 03:55:40  
Local clock offset: 0.498 ms  
Remote clock offset: -62.674 ms

# Below is generated by plot.py at 2018-08-22 05:58:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.50 Mbit/s  
95th percentile per-packet one-way delay: 23.070 ms  
Loss rate: 1.13%  
-- Flow 1:  
Average throughput: 17.90 Mbit/s  
95th percentile per-packet one-way delay: 22.738 ms  
Loss rate: 1.19%  
-- Flow 2:  
Average throughput: 17.87 Mbit/s  
95th percentile per-packet one-way delay: 22.891 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 17.28 Mbit/s  
95th percentile per-packet one-way delay: 24.965 ms  
Loss rate: 1.42%

Run 5: Report of Sprout — Data Link



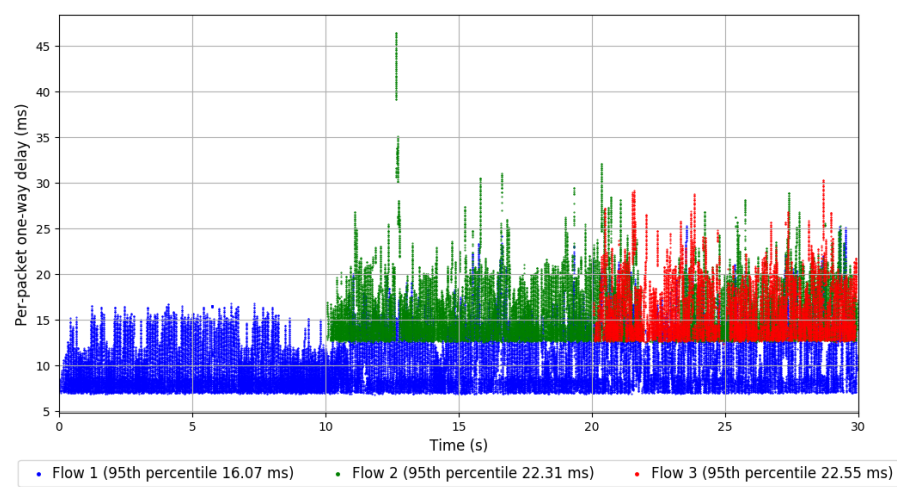
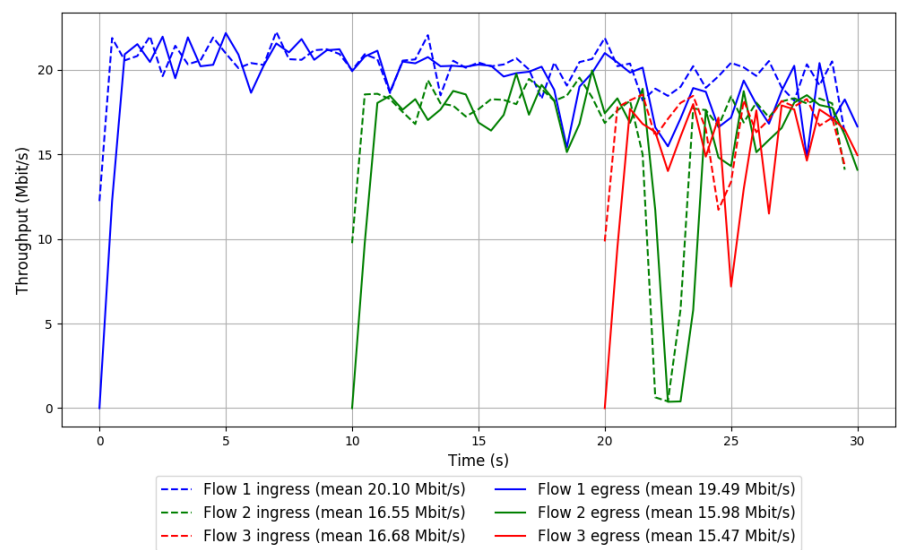
Run 6: Statistics of Sprout

Start at: 2018-08-22 04:14:44  
End at: 2018-08-22 04:15:14  
Local clock offset: 3.292 ms  
Remote clock offset: -62.528 ms

# Below is generated by plot.py at 2018-08-22 05:59:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 35.23 Mbit/s  
95th percentile per-packet one-way delay: 20.413 ms  
Loss rate: 3.76%  
-- Flow 1:  
Average throughput: 19.49 Mbit/s  
95th percentile per-packet one-way delay: 16.070 ms  
Loss rate: 3.01%  
-- Flow 2:  
Average throughput: 15.98 Mbit/s  
95th percentile per-packet one-way delay: 22.308 ms  
Loss rate: 3.43%  
-- Flow 3:  
Average throughput: 15.47 Mbit/s  
95th percentile per-packet one-way delay: 22.545 ms  
Loss rate: 7.16%



Run 6: Report of Sprout — Data Link

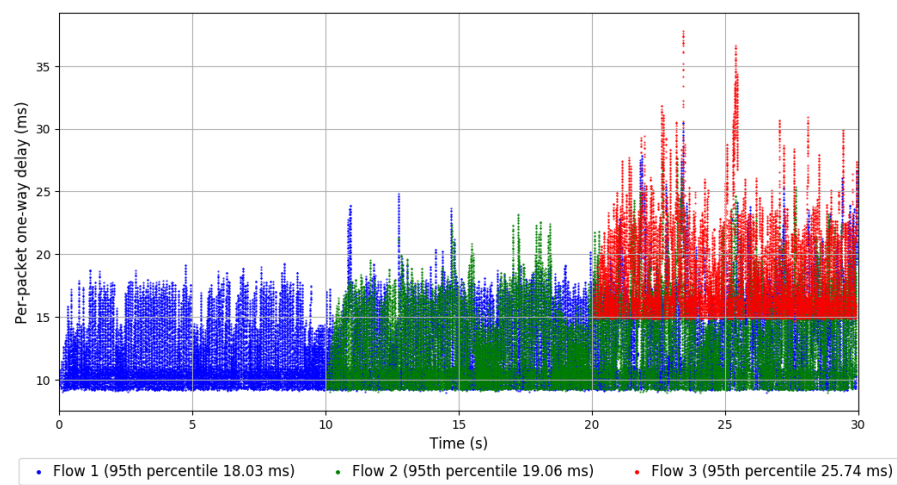
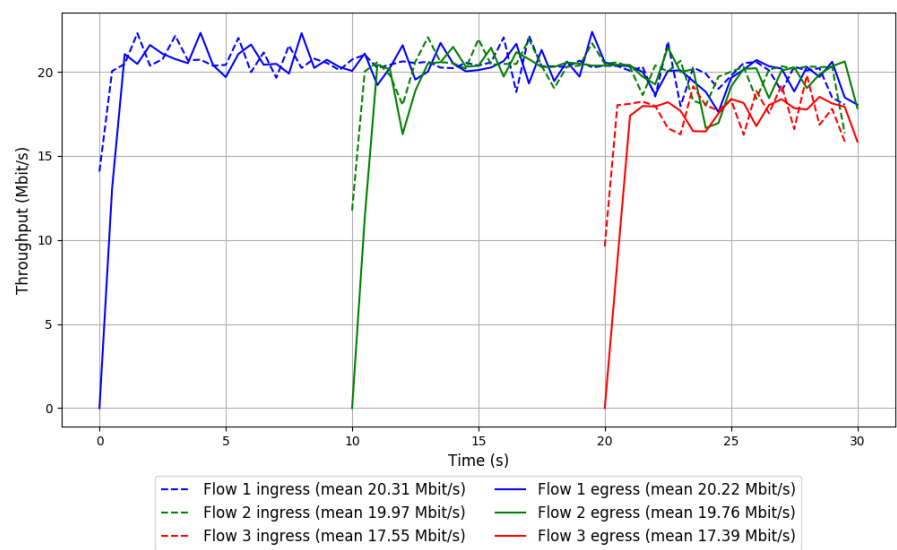


Run 7: Statistics of Sprout

Start at: 2018-08-22 04:34:20  
End at: 2018-08-22 04:34:50  
Local clock offset: 0.366 ms  
Remote clock offset: -64.087 ms

# Below is generated by plot.py at 2018-08-22 05:59:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.11 Mbit/s  
95th percentile per-packet one-way delay: 21.135 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 20.22 Mbit/s  
95th percentile per-packet one-way delay: 18.030 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 19.76 Mbit/s  
95th percentile per-packet one-way delay: 19.062 ms  
Loss rate: 1.01%  
-- Flow 3:  
Average throughput: 17.39 Mbit/s  
95th percentile per-packet one-way delay: 25.744 ms  
Loss rate: 0.78%

Run 7: Report of Sprout — Data Link

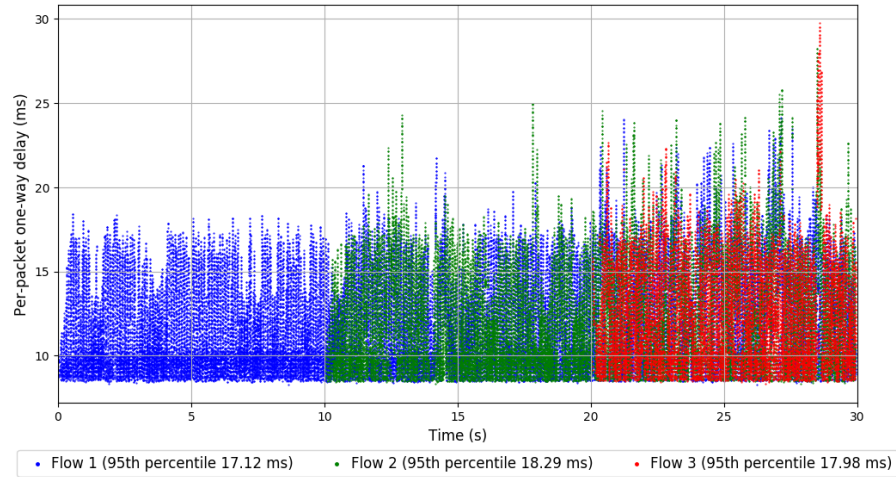
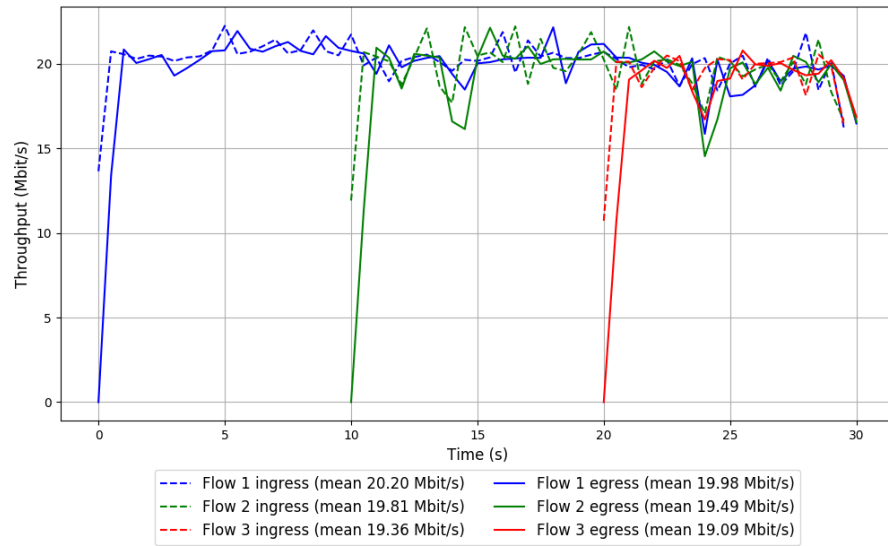


Run 8: Statistics of Sprout

Start at: 2018-08-22 04:53:48  
End at: 2018-08-22 04:54:18  
Local clock offset: 1.197 ms  
Remote clock offset: -63.554 ms

# Below is generated by plot.py at 2018-08-22 05:59:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.26 Mbit/s  
95th percentile per-packet one-way delay: 17.609 ms  
Loss rate: 1.27%  
-- Flow 1:  
Average throughput: 19.98 Mbit/s  
95th percentile per-packet one-way delay: 17.124 ms  
Loss rate: 1.06%  
-- Flow 2:  
Average throughput: 19.49 Mbit/s  
95th percentile per-packet one-way delay: 18.291 ms  
Loss rate: 1.57%  
-- Flow 3:  
Average throughput: 19.09 Mbit/s  
95th percentile per-packet one-way delay: 17.982 ms  
Loss rate: 1.32%

## Run 8: Report of Sprout — Data Link

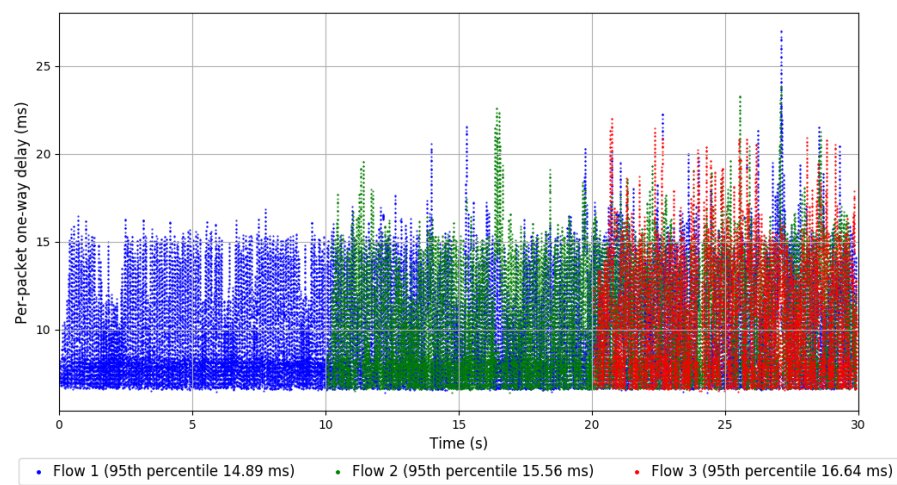
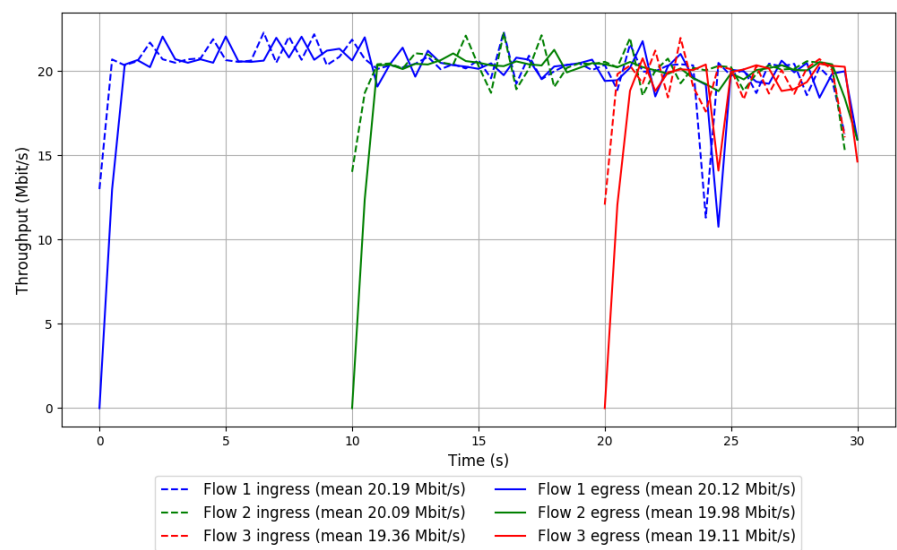


Run 9: Statistics of Sprout

Start at: 2018-08-22 05:13:27  
End at: 2018-08-22 05:13:57  
Local clock offset: 2.604 ms  
Remote clock offset: -63.251 ms

# Below is generated by plot.py at 2018-08-22 05:59:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.71 Mbit/s  
95th percentile per-packet one-way delay: 15.359 ms  
Loss rate: 0.57%  
-- Flow 1:  
Average throughput: 20.12 Mbit/s  
95th percentile per-packet one-way delay: 14.887 ms  
Loss rate: 0.37%  
-- Flow 2:  
Average throughput: 19.98 Mbit/s  
95th percentile per-packet one-way delay: 15.564 ms  
Loss rate: 0.54%  
-- Flow 3:  
Average throughput: 19.11 Mbit/s  
95th percentile per-packet one-way delay: 16.645 ms  
Loss rate: 1.28%

Run 9: Report of Sprout — Data Link



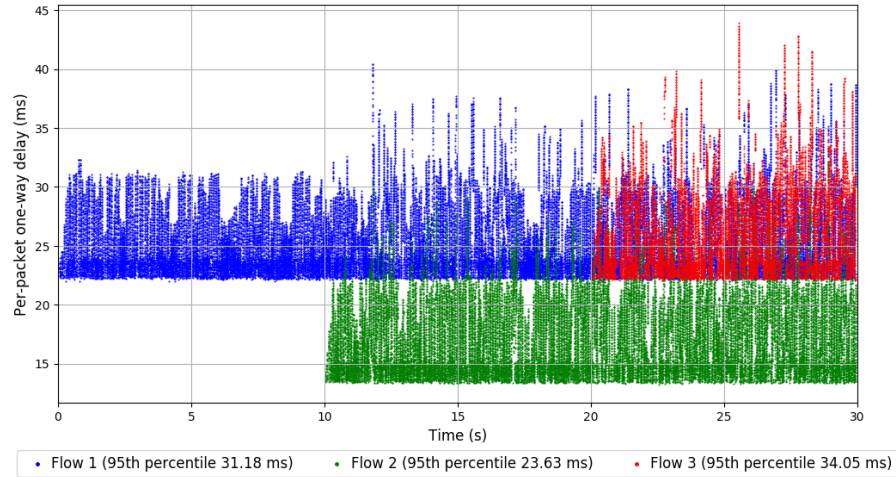
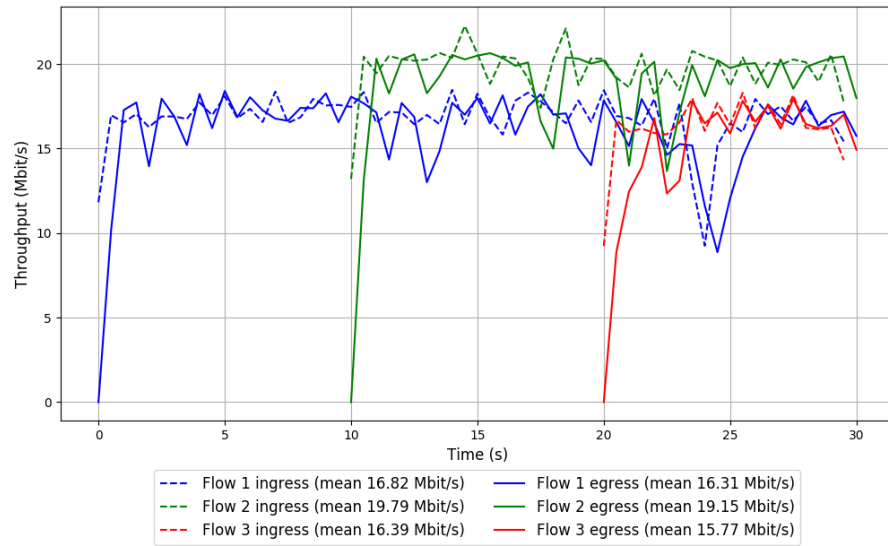
Run 10: Statistics of Sprout

Start at: 2018-08-22 05:33:07  
End at: 2018-08-22 05:33:37  
Local clock offset: -7.762 ms  
Remote clock offset: -62.525 ms

# Below is generated by plot.py at 2018-08-22 05:59:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 34.26 Mbit/s  
95th percentile per-packet one-way delay: 30.790 ms  
Loss rate: 3.19%  
-- Flow 1:  
Average throughput: 16.31 Mbit/s  
95th percentile per-packet one-way delay: 31.185 ms  
Loss rate: 2.98%  
-- Flow 2:  
Average throughput: 19.15 Mbit/s  
95th percentile per-packet one-way delay: 23.629 ms  
Loss rate: 3.21%  
-- Flow 3:  
Average throughput: 15.77 Mbit/s  
95th percentile per-packet one-way delay: 34.054 ms  
Loss rate: 3.83%



# Run 10: Report of Sprout — Data Link

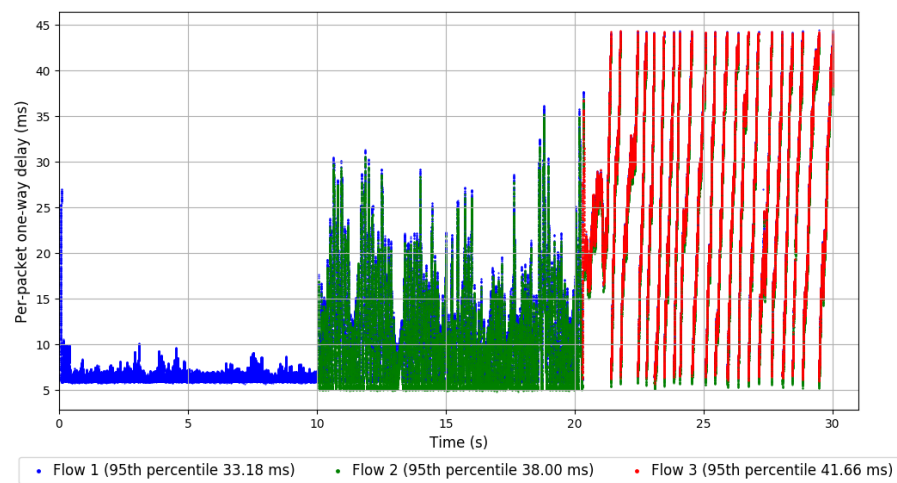
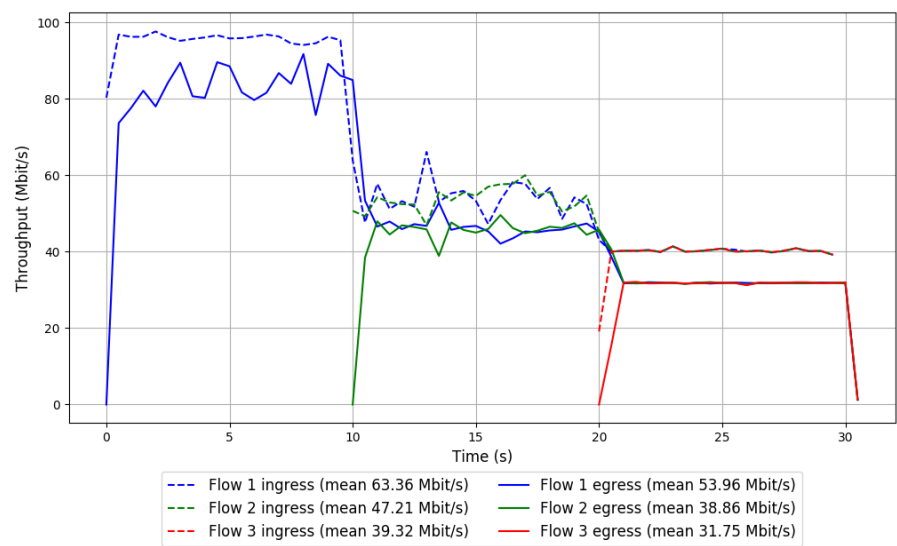


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-08-22 02:34:20
End at: 2018-08-22 02:34:50
Local clock offset: 4.625 ms
Remote clock offset: -60.5 ms

# Below is generated by plot.py at 2018-08-22 06:01:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.21 Mbit/s
95th percentile per-packet one-way delay: 37.734 ms
Loss rate: 16.30%
-- Flow 1:
Average throughput: 53.96 Mbit/s
95th percentile per-packet one-way delay: 33.181 ms
Loss rate: 14.75%
-- Flow 2:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 37.996 ms
Loss rate: 17.58%
-- Flow 3:
Average throughput: 31.75 Mbit/s
95th percentile per-packet one-way delay: 41.659 ms
Loss rate: 20.72%
```

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

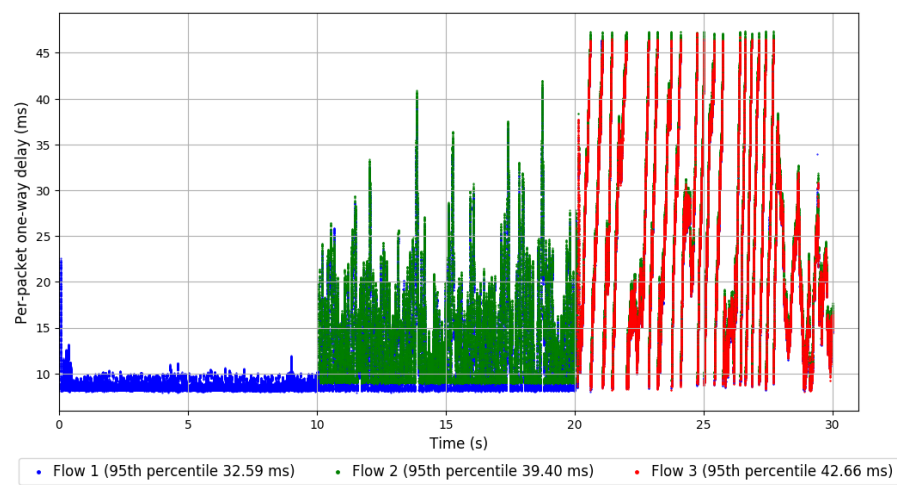
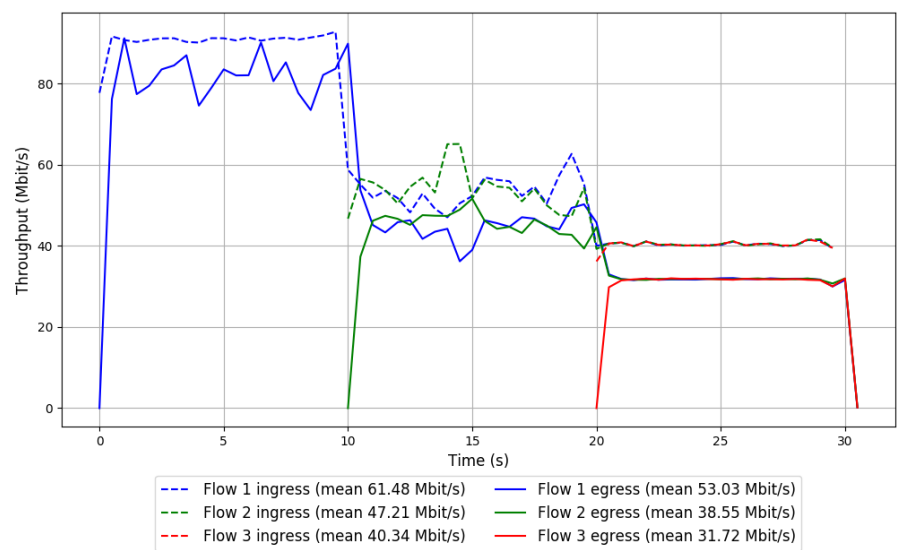


Run 2: Statistics of TaoVA-100x

Start at: 2018-08-22 02:53:47  
End at: 2018-08-22 02:54:17  
Local clock offset: 0.986 ms  
Remote clock offset: -59.52 ms

# Below is generated by plot.py at 2018-08-22 06:01:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.24 Mbit/s  
95th percentile per-packet one-way delay: 37.892 ms  
Loss rate: 16.06%  
-- Flow 1:  
Average throughput: 53.03 Mbit/s  
95th percentile per-packet one-way delay: 32.593 ms  
Loss rate: 13.73%  
-- Flow 2:  
Average throughput: 38.55 Mbit/s  
95th percentile per-packet one-way delay: 39.401 ms  
Loss rate: 18.31%  
-- Flow 3:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 42.658 ms  
Loss rate: 21.44%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-08-22 03:13:19

End at: 2018-08-22 03:13:49

Local clock offset: 2.074 ms

Remote clock offset: -42.1 ms

# Below is generated by plot.py at 2018-08-22 06:01:02

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.85 Mbit/s

95th percentile per-packet one-way delay: 56.706 ms

Loss rate: 11.10%

-- Flow 1:

Average throughput: 56.67 Mbit/s

95th percentile per-packet one-way delay: 52.747 ms

Loss rate: 8.62%

-- Flow 2:

Average throughput: 40.46 Mbit/s

95th percentile per-packet one-way delay: 57.287 ms

Loss rate: 12.91%

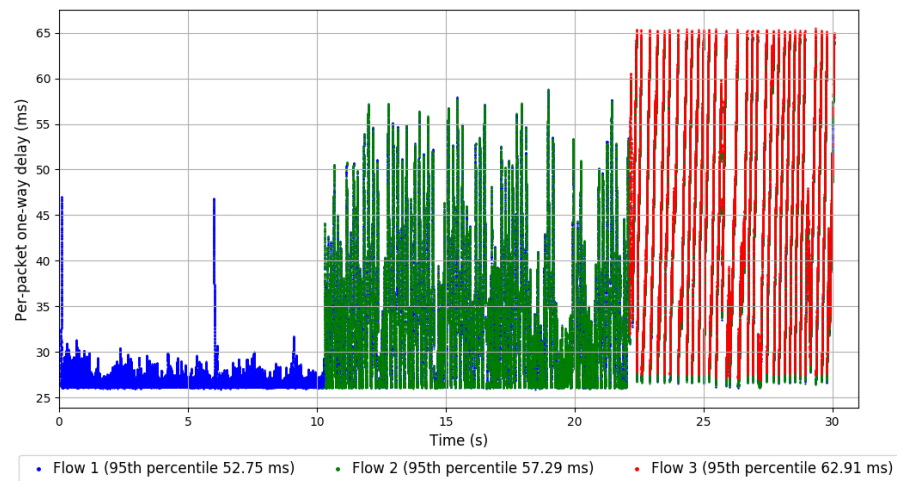
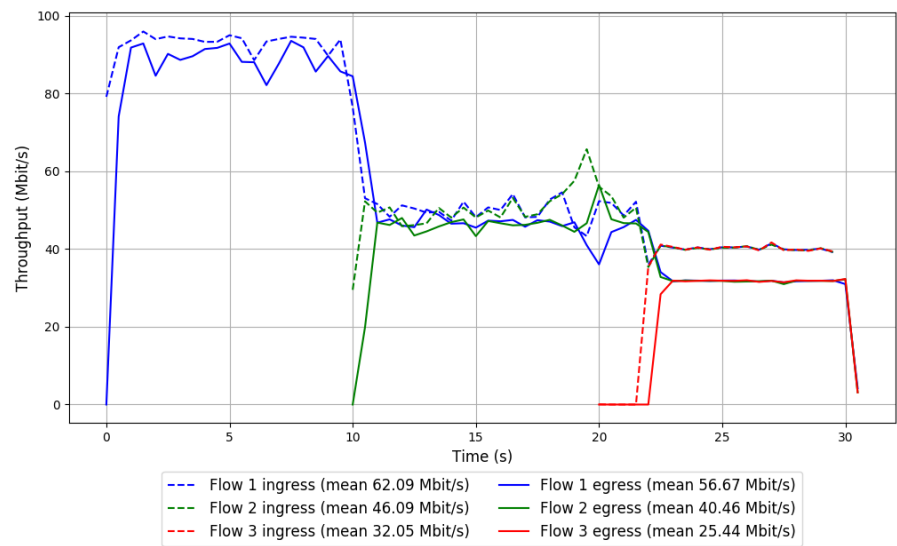
-- Flow 3:

Average throughput: 25.44 Mbit/s

95th percentile per-packet one-way delay: 62.915 ms

Loss rate: 20.33%

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



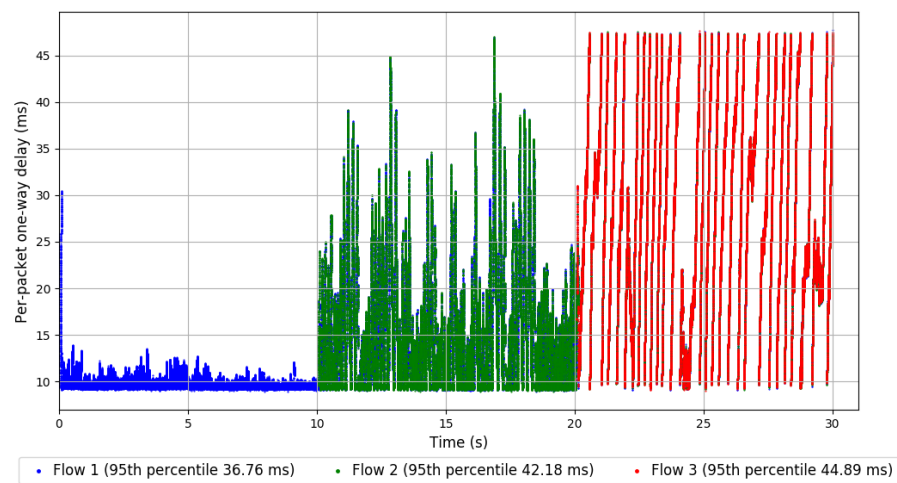
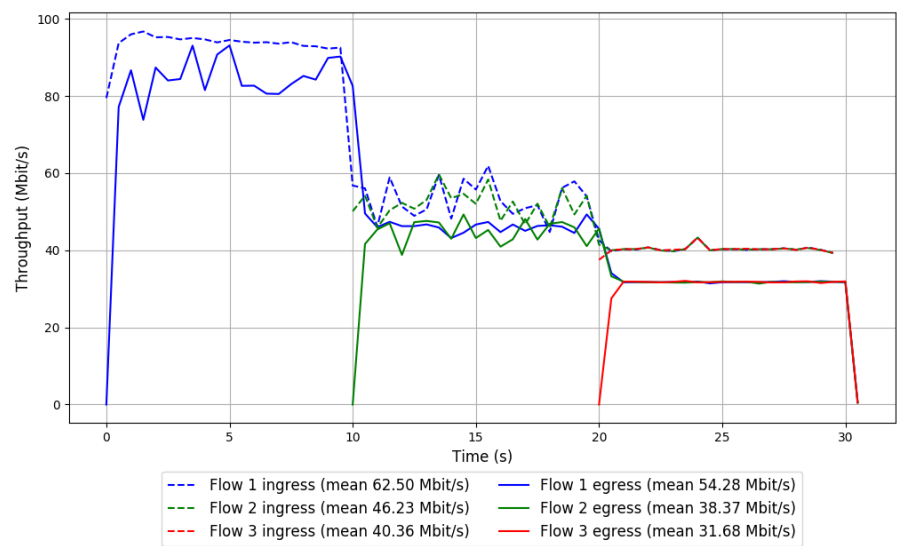
Run 4: Statistics of TaoVA-100x

Start at: 2018-08-22 03:32:59  
End at: 2018-08-22 03:33:29  
Local clock offset: -1.582 ms  
Remote clock offset: -63.512 ms

# Below is generated by plot.py at 2018-08-22 06:01:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.39 Mbit/s  
95th percentile per-packet one-way delay: 41.168 ms  
Loss rate: 15.28%  
-- Flow 1:  
Average throughput: 54.28 Mbit/s  
95th percentile per-packet one-way delay: 36.763 ms  
Loss rate: 13.14%  
-- Flow 2:  
Average throughput: 38.37 Mbit/s  
95th percentile per-packet one-way delay: 42.183 ms  
Loss rate: 16.96%  
-- Flow 3:  
Average throughput: 31.68 Mbit/s  
95th percentile per-packet one-way delay: 44.891 ms  
Loss rate: 21.44%



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

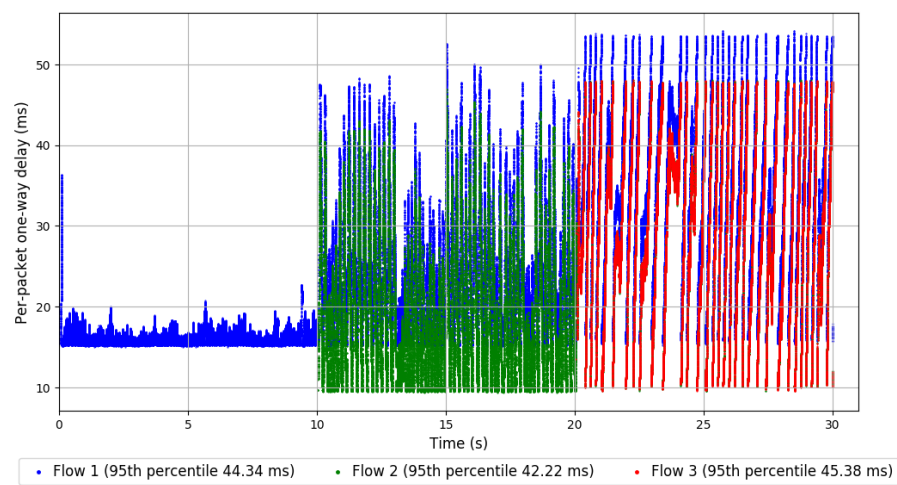
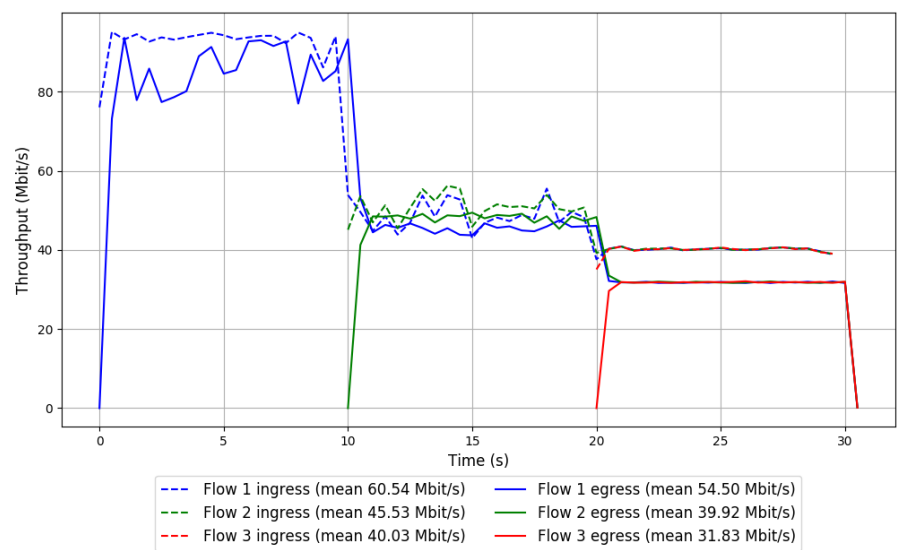


Run 5: Statistics of TaoVA-100x

Start at: 2018-08-22 03:52:47  
End at: 2018-08-22 03:53:17  
Local clock offset: 1.195 ms  
Remote clock offset: -61.293 ms

# Below is generated by plot.py at 2018-08-22 06:01:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.68 Mbit/s  
95th percentile per-packet one-way delay: 43.968 ms  
Loss rate: 12.01%  
-- Flow 1:  
Average throughput: 54.50 Mbit/s  
95th percentile per-packet one-way delay: 44.336 ms  
Loss rate: 9.99%  
-- Flow 2:  
Average throughput: 39.92 Mbit/s  
95th percentile per-packet one-way delay: 42.219 ms  
Loss rate: 12.33%  
-- Flow 3:  
Average throughput: 31.83 Mbit/s  
95th percentile per-packet one-way delay: 45.382 ms  
Loss rate: 20.51%

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

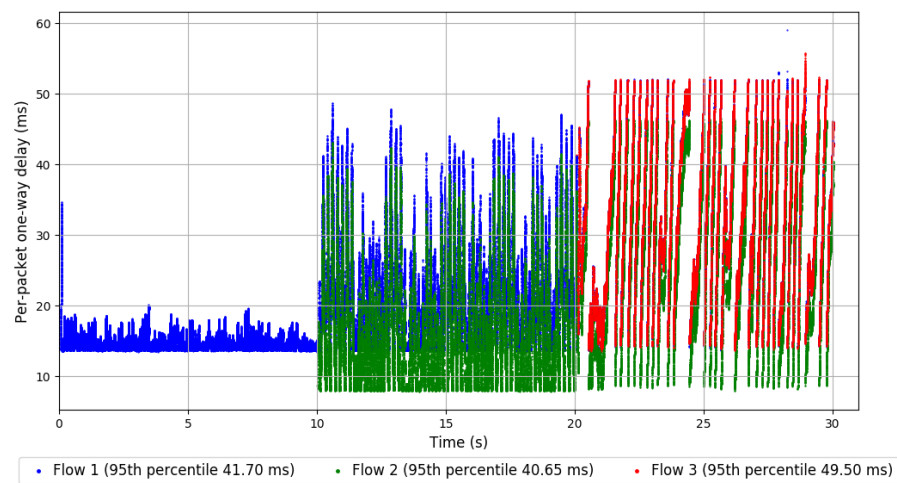
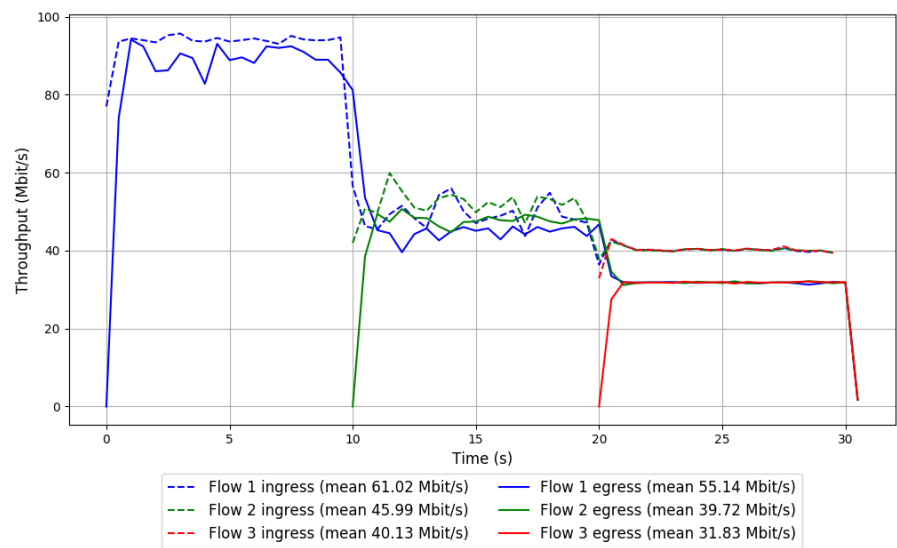


Run 6: Statistics of TaoVA-100x

Start at: 2018-08-22 04:12:21  
End at: 2018-08-22 04:12:51  
Local clock offset: 1.698 ms  
Remote clock offset: -63.088 ms

# Below is generated by plot.py at 2018-08-22 06:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.18 Mbit/s  
95th percentile per-packet one-way delay: 43.576 ms  
Loss rate: 12.13%  
-- Flow 1:  
Average throughput: 55.14 Mbit/s  
95th percentile per-packet one-way delay: 41.698 ms  
Loss rate: 9.56%  
-- Flow 2:  
Average throughput: 39.72 Mbit/s  
95th percentile per-packet one-way delay: 40.646 ms  
Loss rate: 13.51%  
-- Flow 3:  
Average throughput: 31.83 Mbit/s  
95th percentile per-packet one-way delay: 49.496 ms  
Loss rate: 20.71%

Run 6: Report of TaoVA-100x — Data Link

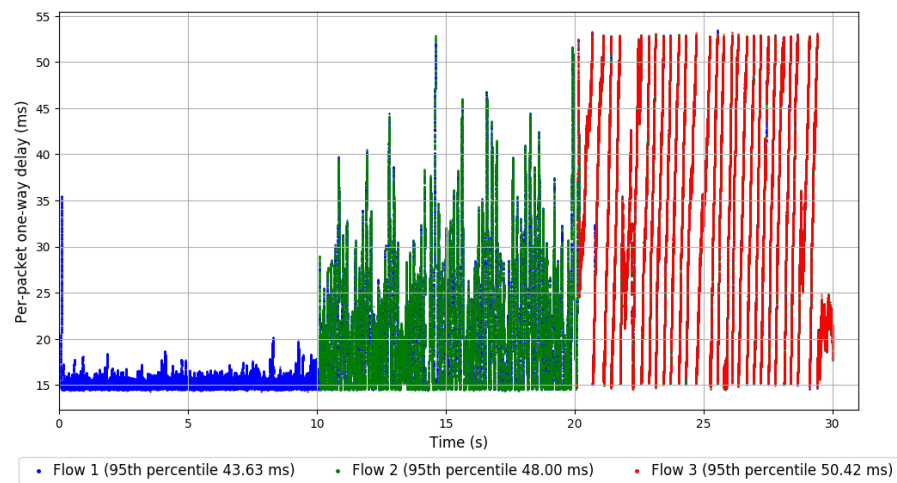
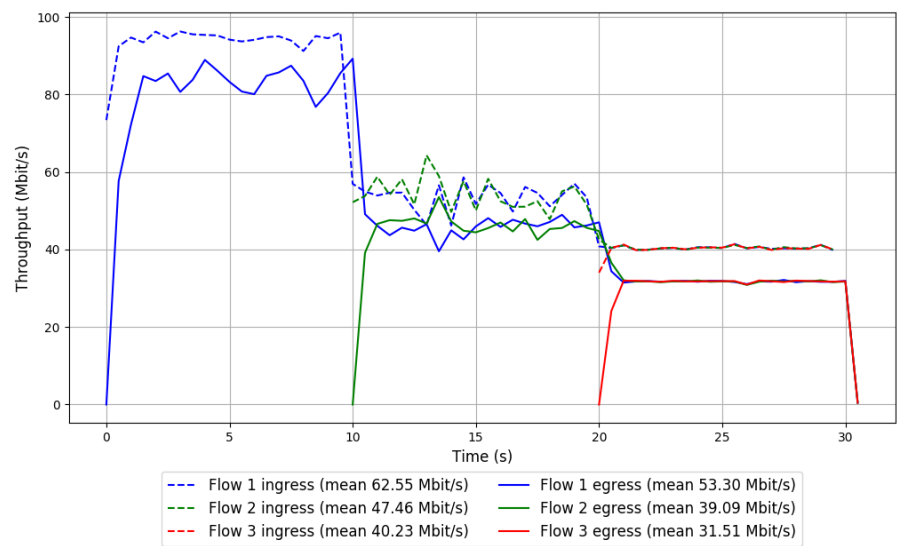


Run 7: Statistics of TaoVA-100x

Start at: 2018-08-22 04:31:56  
End at: 2018-08-22 04:32:26  
Local clock offset: 0.453 ms  
Remote clock offset: -64.288 ms

# Below is generated by plot.py at 2018-08-22 06:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.82 Mbit/s  
95th percentile per-packet one-way delay: 47.344 ms  
Loss rate: 16.46%  
-- Flow 1:  
Average throughput: 53.30 Mbit/s  
95th percentile per-packet one-way delay: 43.628 ms  
Loss rate: 14.77%  
-- Flow 2:  
Average throughput: 39.09 Mbit/s  
95th percentile per-packet one-way delay: 47.997 ms  
Loss rate: 17.62%  
-- Flow 3:  
Average throughput: 31.51 Mbit/s  
95th percentile per-packet one-way delay: 50.425 ms  
Loss rate: 21.63%

Run 7: Report of TaoVA-100x — Data Link



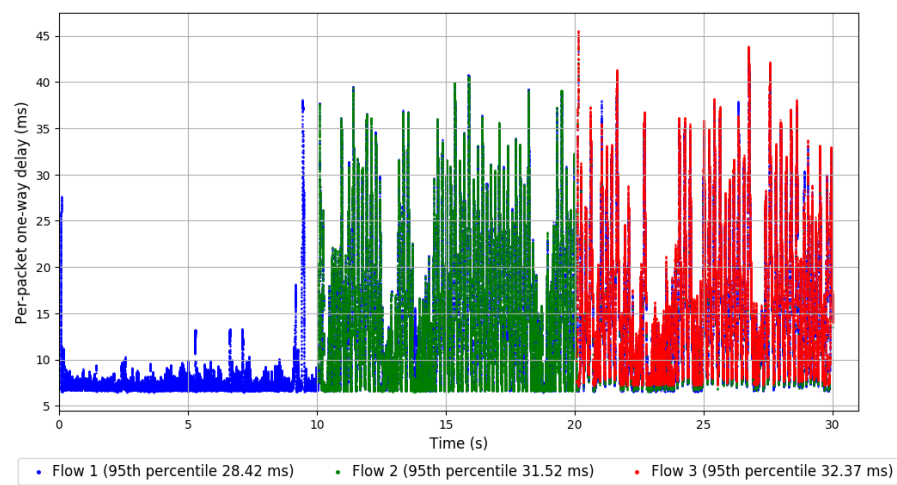
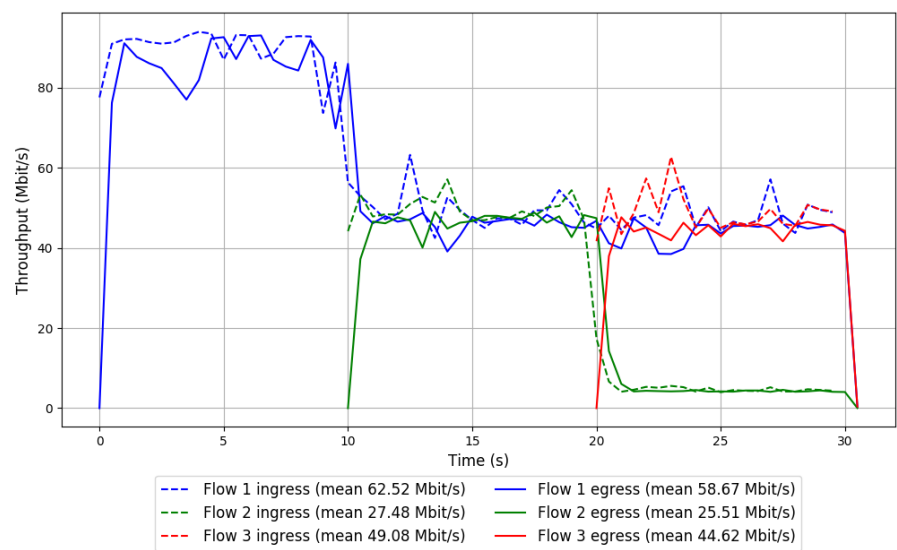
Run 8: Statistics of TaoVA-100x

Start at: 2018-08-22 04:51:28  
End at: 2018-08-22 04:51:58  
Local clock offset: 3.671 ms  
Remote clock offset: -62.442 ms

# Below is generated by plot.py at 2018-08-22 06:01:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.50 Mbit/s  
95th percentile per-packet one-way delay: 30.149 ms  
Loss rate: 6.83%  
-- Flow 1:  
Average throughput: 58.67 Mbit/s  
95th percentile per-packet one-way delay: 28.418 ms  
Loss rate: 6.15%  
-- Flow 2:  
Average throughput: 25.51 Mbit/s  
95th percentile per-packet one-way delay: 31.518 ms  
Loss rate: 7.15%  
-- Flow 3:  
Average throughput: 44.62 Mbit/s  
95th percentile per-packet one-way delay: 32.365 ms  
Loss rate: 9.08%



Run 8: Report of TaoVA-100x — Data Link

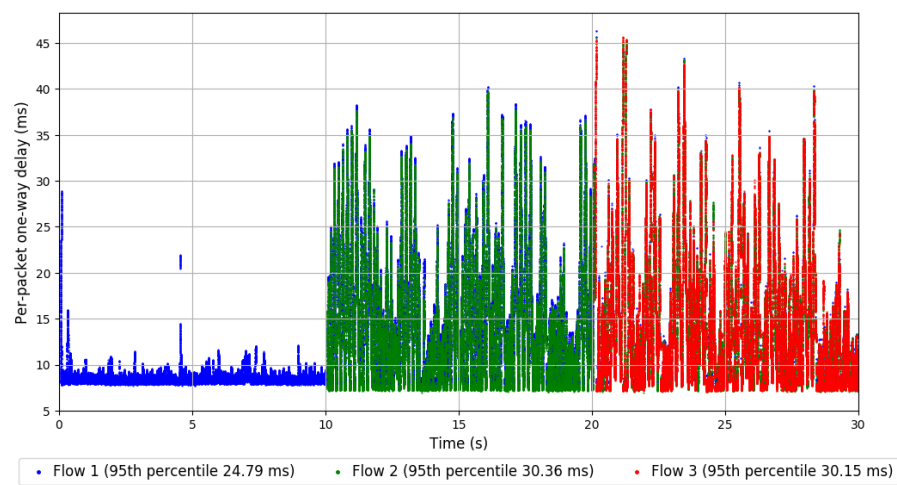
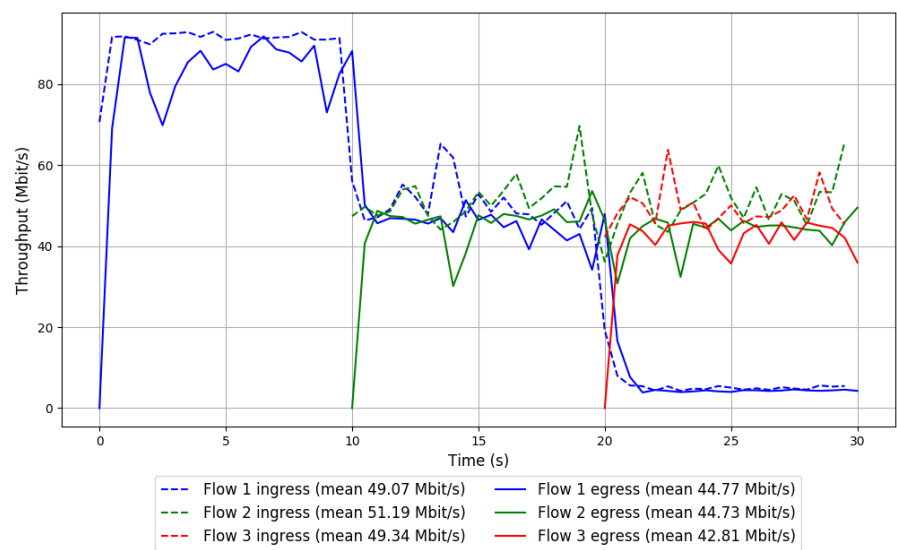


Run 9: Statistics of TaoVA-100x

Start at: 2018-08-22 05:11:03  
End at: 2018-08-22 05:11:33  
Local clock offset: 2.111 ms  
Remote clock offset: -62.683 ms

# Below is generated by plot.py at 2018-08-22 06:03:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.79 Mbit/s  
95th percentile per-packet one-way delay: 28.373 ms  
Loss rate: 10.83%  
-- Flow 1:  
Average throughput: 44.77 Mbit/s  
95th percentile per-packet one-way delay: 24.790 ms  
Loss rate: 8.77%  
-- Flow 2:  
Average throughput: 44.73 Mbit/s  
95th percentile per-packet one-way delay: 30.362 ms  
Loss rate: 12.62%  
-- Flow 3:  
Average throughput: 42.81 Mbit/s  
95th percentile per-packet one-way delay: 30.150 ms  
Loss rate: 13.25%

Run 9: Report of TaoVA-100x — Data Link



Run 10: Statistics of TaoVA-100x

Start at: 2018-08-22 05:30:45

End at: 2018-08-22 05:31:15

Local clock offset: 1.524 ms

Remote clock offset: -59.462 ms

# Below is generated by plot.py at 2018-08-22 06:03:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.11 Mbit/s

95th percentile per-packet one-way delay: 31.647 ms

Loss rate: 8.47%

-- Flow 1:

Average throughput: 57.38 Mbit/s

95th percentile per-packet one-way delay: 27.155 ms

Loss rate: 8.16%

-- Flow 2:

Average throughput: 25.99 Mbit/s

95th percentile per-packet one-way delay: 30.828 ms

Loss rate: 9.70%

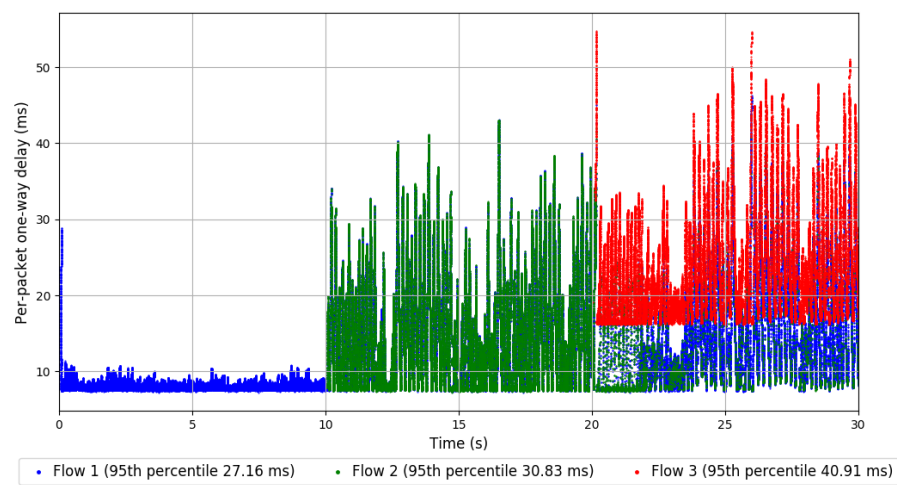
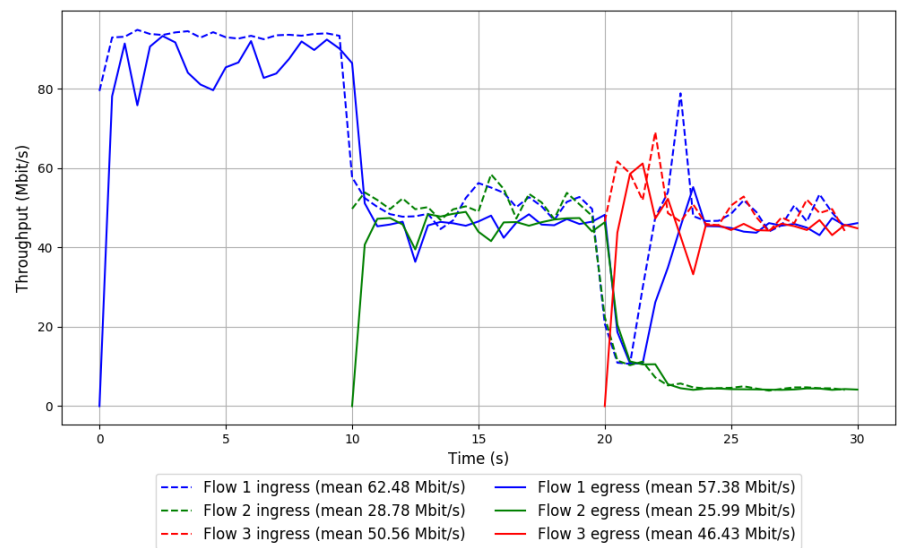
-- Flow 3:

Average throughput: 46.43 Mbit/s

95th percentile per-packet one-way delay: 40.912 ms

Loss rate: 8.25%

Run 10: Report of TaoVA-100x — Data Link

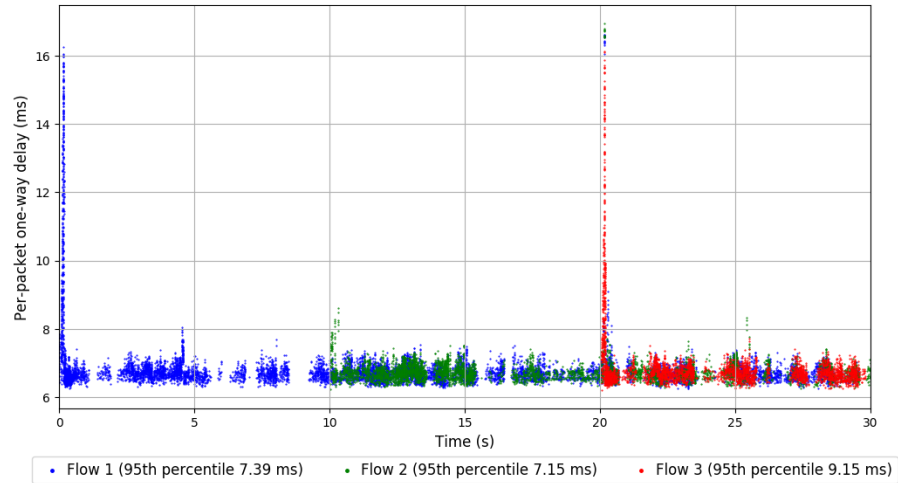
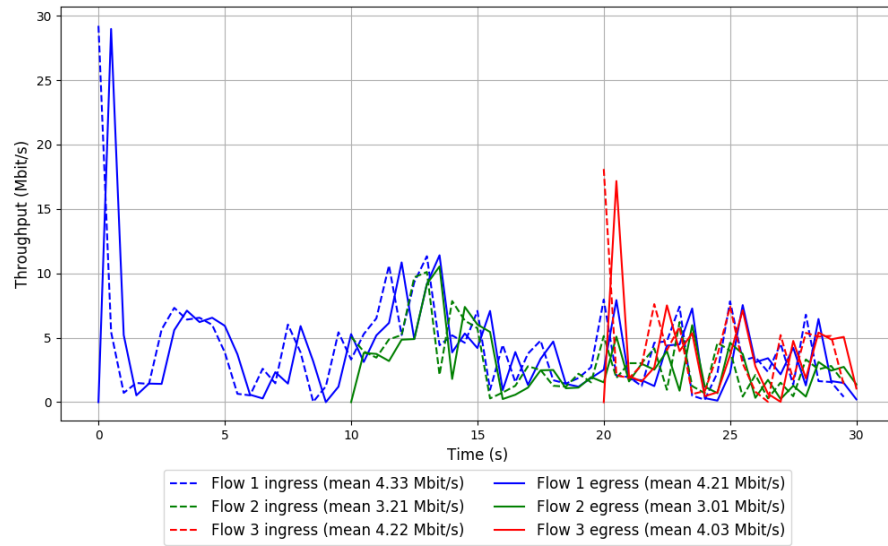


Run 1: Statistics of TCP Vegas

Start at: 2018-08-22 02:29:55  
End at: 2018-08-22 02:30:25  
Local clock offset: 3.348 ms  
Remote clock offset: -60.92 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 7.46 Mbit/s  
95th percentile per-packet one-way delay: 7.352 ms  
Loss rate: 4.57%  
-- Flow 1:  
Average throughput: 4.21 Mbit/s  
95th percentile per-packet one-way delay: 7.390 ms  
Loss rate: 3.77%  
-- Flow 2:  
Average throughput: 3.01 Mbit/s  
95th percentile per-packet one-way delay: 7.149 ms  
Loss rate: 6.03%  
-- Flow 3:  
Average throughput: 4.03 Mbit/s  
95th percentile per-packet one-way delay: 9.153 ms  
Loss rate: 4.82%

## Run 1: Report of TCP Vegas — Data Link



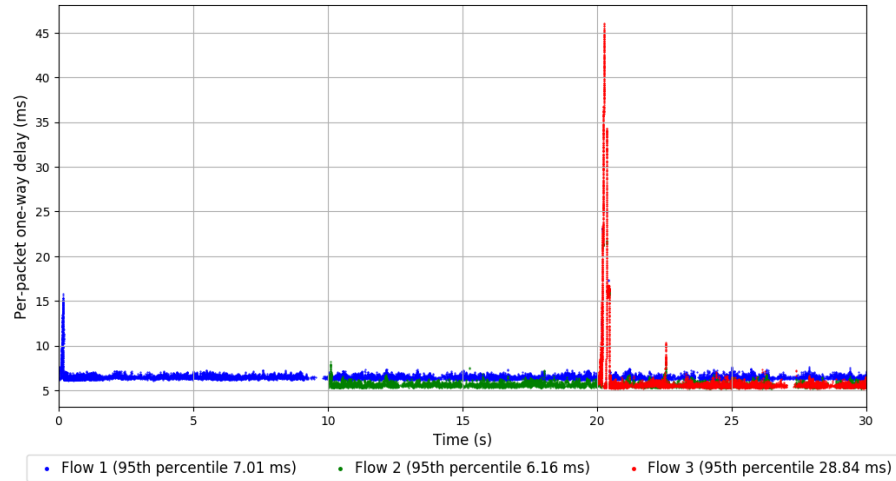
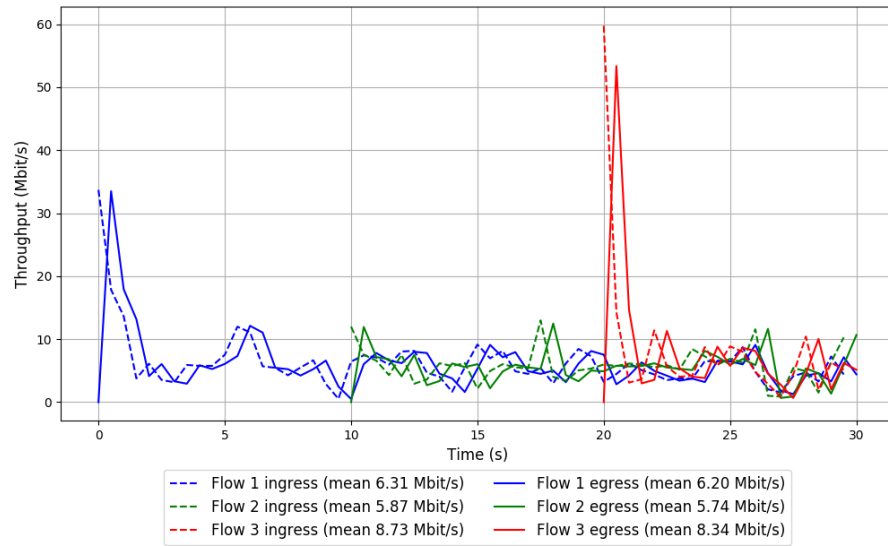
Run 2: Statistics of TCP Vegas

Start at: 2018-08-22 02:49:18  
End at: 2018-08-22 02:49:48  
Local clock offset: 3.298 ms  
Remote clock offset: -60.284 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 12.80 Mbit/s  
95th percentile per-packet one-way delay: 12.297 ms  
Loss rate: 2.44%  
-- Flow 1:  
Average throughput: 6.20 Mbit/s  
95th percentile per-packet one-way delay: 7.007 ms  
Loss rate: 1.66%  
-- Flow 2:  
Average throughput: 5.74 Mbit/s  
95th percentile per-packet one-way delay: 6.164 ms  
Loss rate: 2.16%  
-- Flow 3:  
Average throughput: 8.34 Mbit/s  
95th percentile per-packet one-way delay: 28.837 ms  
Loss rate: 4.52%



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

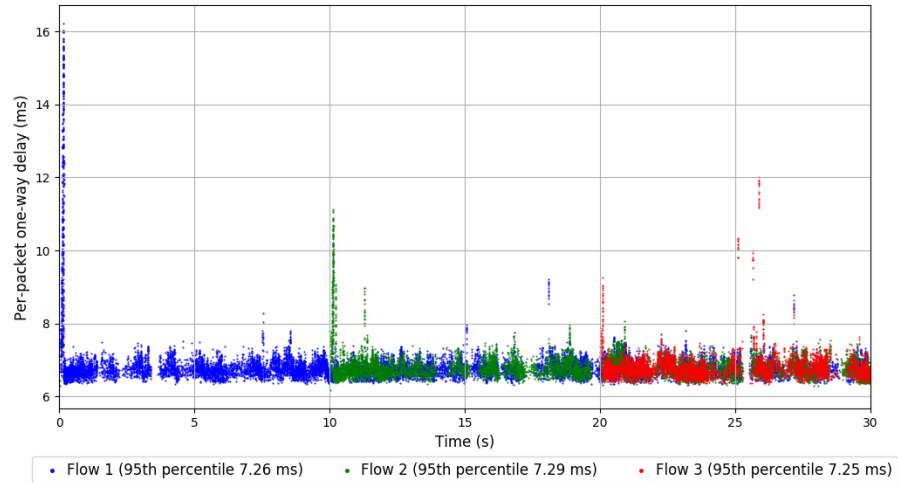
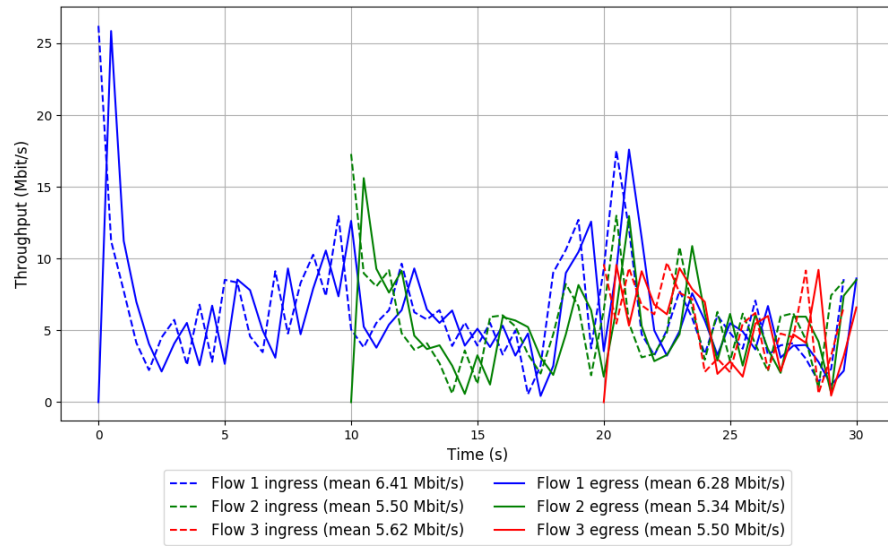


Run 3: Statistics of TCP Vegas

Start at: 2018-08-22 03:08:47  
End at: 2018-08-22 03:09:17  
Local clock offset: 1.492 ms  
Remote clock offset: -62.459 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 11.67 Mbit/s  
95th percentile per-packet one-way delay: 7.273 ms  
Loss rate: 2.26%  
-- Flow 1:  
Average throughput: 6.28 Mbit/s  
95th percentile per-packet one-way delay: 7.264 ms  
Loss rate: 1.95%  
-- Flow 2:  
Average throughput: 5.34 Mbit/s  
95th percentile per-packet one-way delay: 7.292 ms  
Loss rate: 2.93%  
-- Flow 3:  
Average throughput: 5.50 Mbit/s  
95th percentile per-packet one-way delay: 7.249 ms  
Loss rate: 1.99%

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

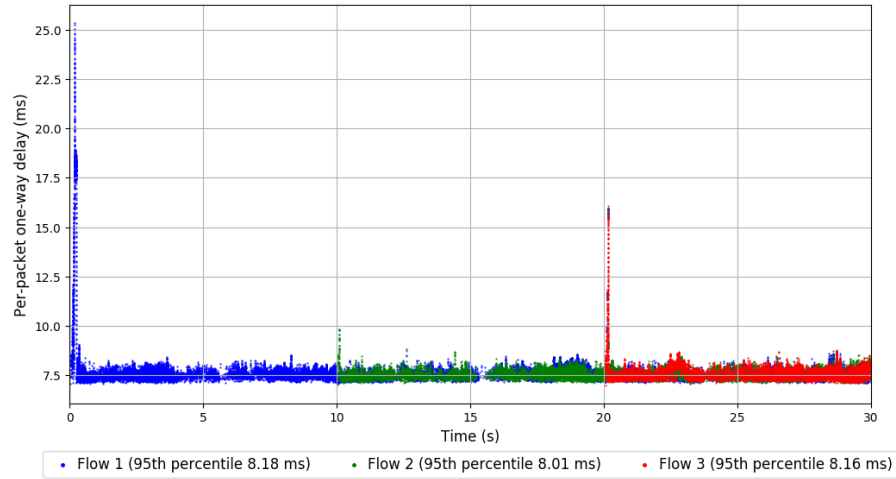
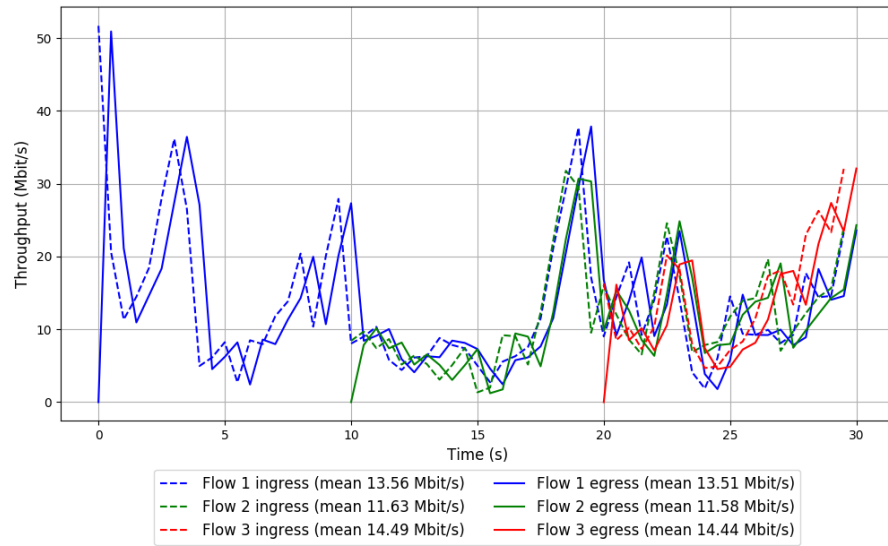


Run 4: Statistics of TCP Vegas

Start at: 2018-08-22 03:28:31  
End at: 2018-08-22 03:29:01  
Local clock offset: 0.769 ms  
Remote clock offset: -63.111 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 26.02 Mbit/s  
95th percentile per-packet one-way delay: 8.113 ms  
Loss rate: 0.40%  
-- Flow 1:  
Average throughput: 13.51 Mbit/s  
95th percentile per-packet one-way delay: 8.176 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 11.58 Mbit/s  
95th percentile per-packet one-way delay: 8.007 ms  
Loss rate: 0.45%  
-- Flow 3:  
Average throughput: 14.44 Mbit/s  
95th percentile per-packet one-way delay: 8.163 ms  
Loss rate: 0.34%

# Run 4: Report of TCP Vegas — Data Link

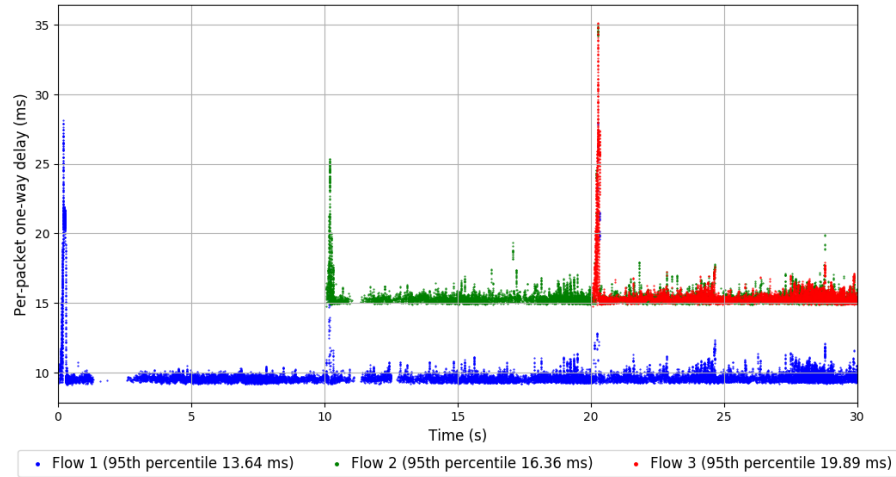
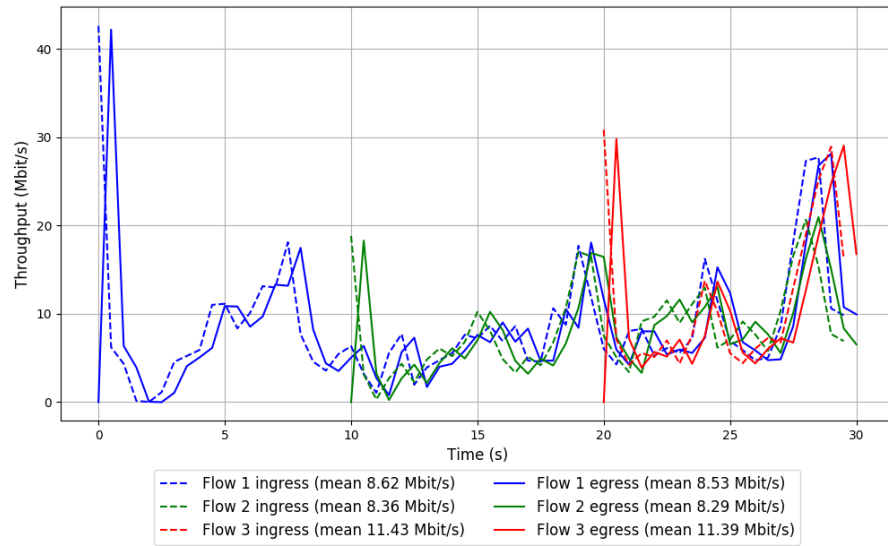


Run 5: Statistics of TCP Vegas

Start at: 2018-08-22 03:48:20  
End at: 2018-08-22 03:48:50  
Local clock offset: 0.669 ms  
Remote clock offset: -61.816 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 17.84 Mbit/s  
95th percentile per-packet one-way delay: 16.667 ms  
Loss rate: 0.86%  
-- Flow 1:  
Average throughput: 8.53 Mbit/s  
95th percentile per-packet one-way delay: 13.641 ms  
Loss rate: 0.98%  
-- Flow 2:  
Average throughput: 8.29 Mbit/s  
95th percentile per-packet one-way delay: 16.361 ms  
Loss rate: 0.88%  
-- Flow 3:  
Average throughput: 11.39 Mbit/s  
95th percentile per-packet one-way delay: 19.888 ms  
Loss rate: 0.56%

# Run 5: Report of TCP Vegas — Data Link



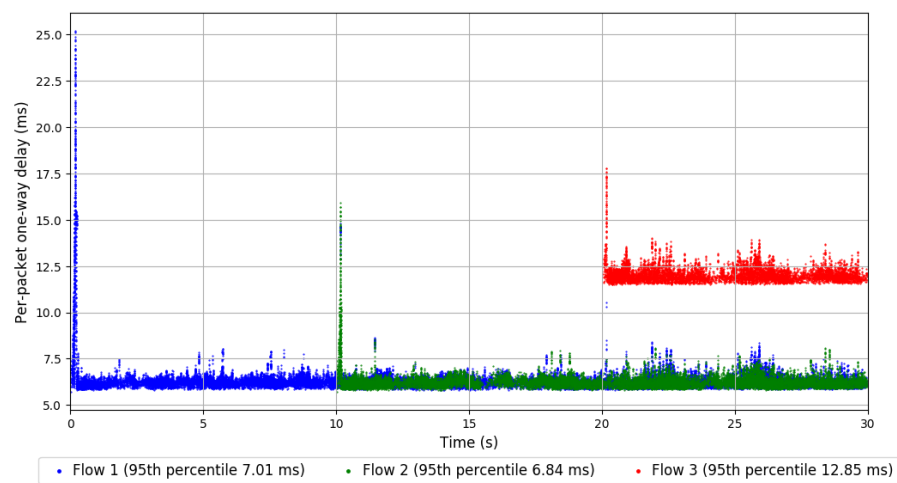
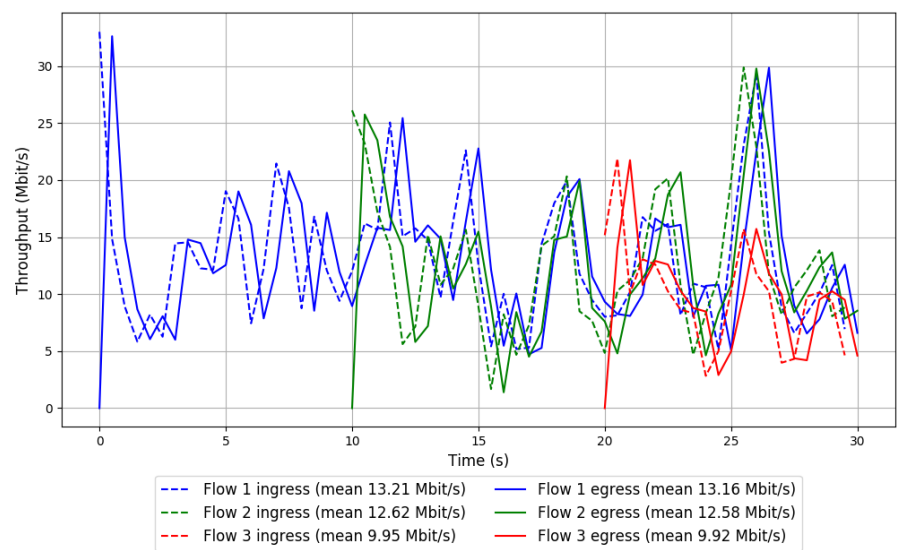
Run 6: Statistics of TCP Vegas

Start at: 2018-08-22 04:07:54  
End at: 2018-08-22 04:08:24  
Local clock offset: 3.927 ms  
Remote clock offset: -62.65 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 24.82 Mbit/s  
95th percentile per-packet one-way delay: 12.160 ms  
Loss rate: 0.36%  
-- Flow 1:  
Average throughput: 13.16 Mbit/s  
95th percentile per-packet one-way delay: 7.013 ms  
Loss rate: 0.35%  
-- Flow 2:  
Average throughput: 12.58 Mbit/s  
95th percentile per-packet one-way delay: 6.836 ms  
Loss rate: 0.41%  
-- Flow 3:  
Average throughput: 9.92 Mbit/s  
95th percentile per-packet one-way delay: 12.845 ms  
Loss rate: 0.30%



Run 6: Report of TCP Vegas — Data Link

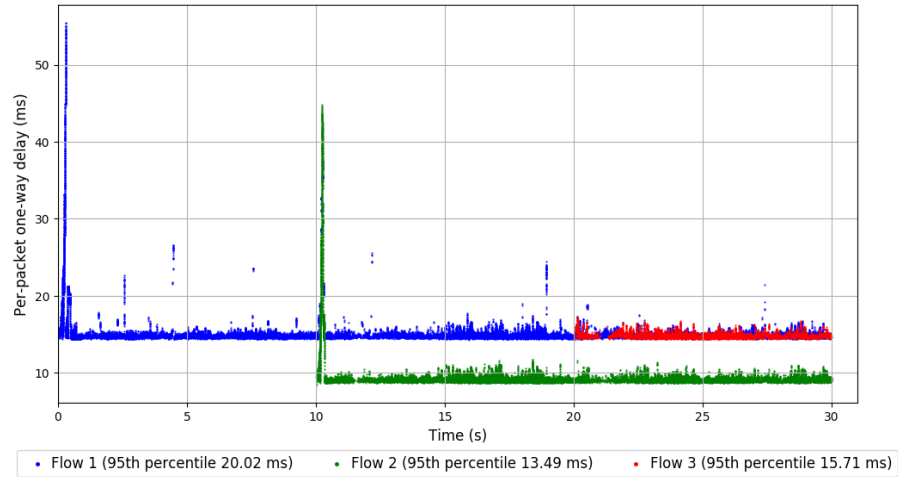
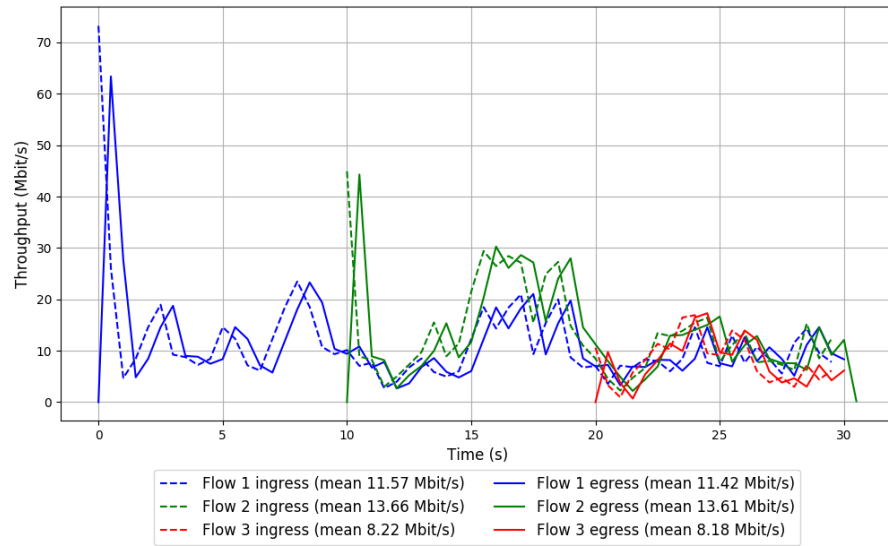


Run 7: Statistics of TCP Vegas

Start at: 2018-08-22 04:27:31  
End at: 2018-08-22 04:28:01  
Local clock offset: 0.757 ms  
Remote clock offset: -63.916 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 23.19 Mbit/s  
95th percentile per-packet one-way delay: 17.389 ms  
Loss rate: 0.90%  
-- Flow 1:  
Average throughput: 11.42 Mbit/s  
95th percentile per-packet one-way delay: 20.015 ms  
Loss rate: 1.41%  
-- Flow 2:  
Average throughput: 13.61 Mbit/s  
95th percentile per-packet one-way delay: 13.493 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 8.18 Mbit/s  
95th percentile per-packet one-way delay: 15.706 ms  
Loss rate: 0.63%

## Run 7: Report of TCP Vegas — Data Link

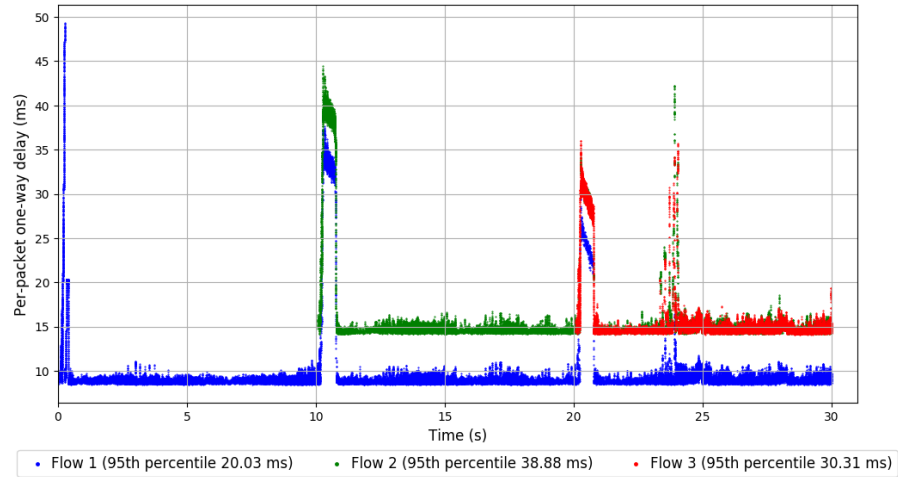
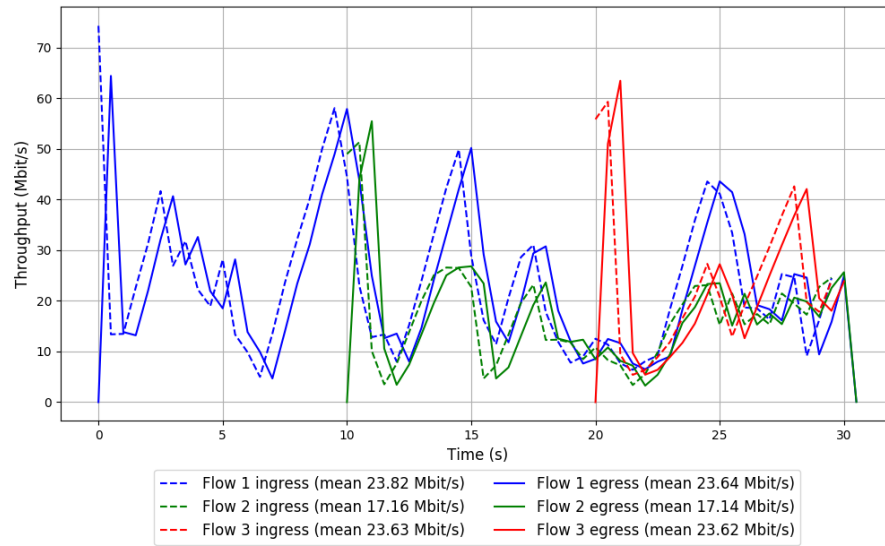


Run 8: Statistics of TCP Vegas

Start at: 2018-08-22 04:47:03  
End at: 2018-08-22 04:47:33  
Local clock offset: 0.987 ms  
Remote clock offset: -64.07 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 42.90 Mbit/s  
95th percentile per-packet one-way delay: 30.752 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 23.64 Mbit/s  
95th percentile per-packet one-way delay: 20.026 ms  
Loss rate: 0.74%  
-- Flow 2:  
Average throughput: 17.14 Mbit/s  
95th percentile per-packet one-way delay: 38.880 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 23.62 Mbit/s  
95th percentile per-packet one-way delay: 30.309 ms  
Loss rate: 0.14%

# Run 8: Report of TCP Vegas — Data Link

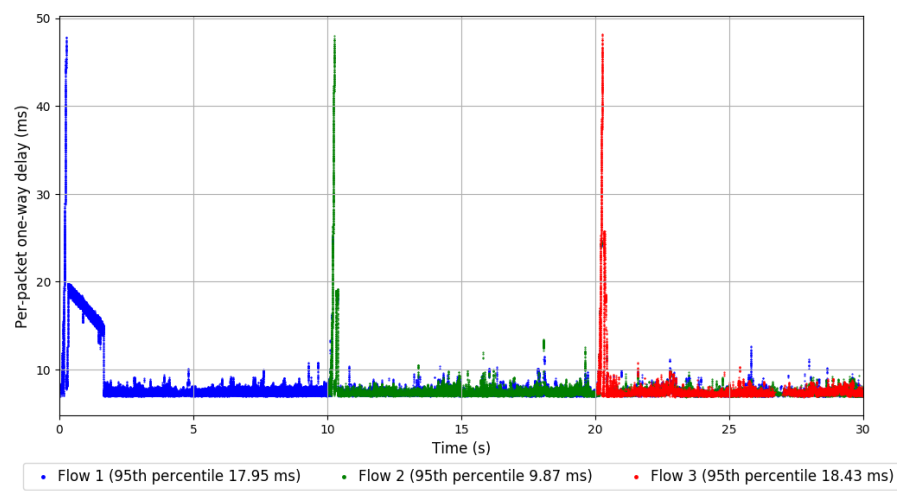
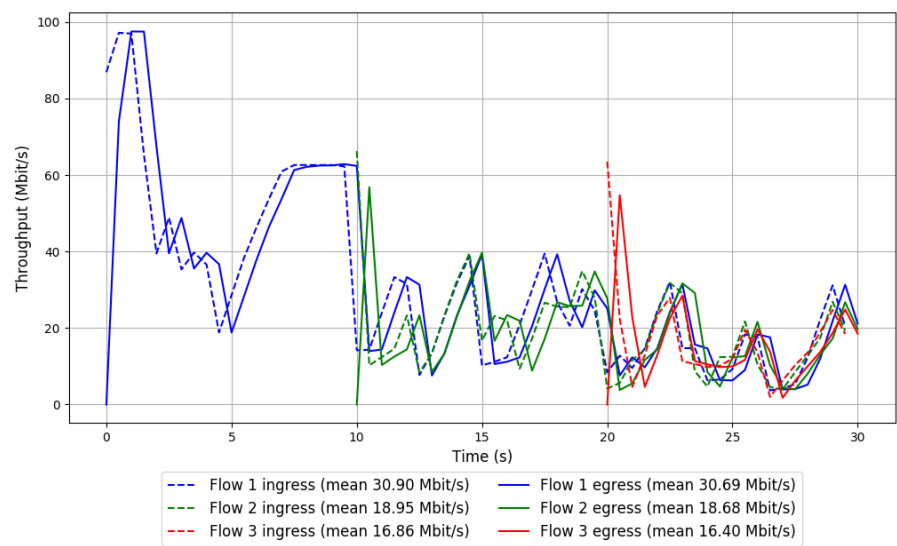


Run 9: Statistics of TCP Vegas

Start at: 2018-08-22 05:06:35  
End at: 2018-08-22 05:07:05  
Local clock offset: 2.335 ms  
Remote clock offset: -63.072 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.58 Mbit/s  
95th percentile per-packet one-way delay: 17.913 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 30.69 Mbit/s  
95th percentile per-packet one-way delay: 17.951 ms  
Loss rate: 0.66%  
-- Flow 2:  
Average throughput: 18.68 Mbit/s  
95th percentile per-packet one-way delay: 9.866 ms  
Loss rate: 1.43%  
-- Flow 3:  
Average throughput: 16.40 Mbit/s  
95th percentile per-packet one-way delay: 18.429 ms  
Loss rate: 2.73%

Run 9: Report of TCP Vegas — Data Link



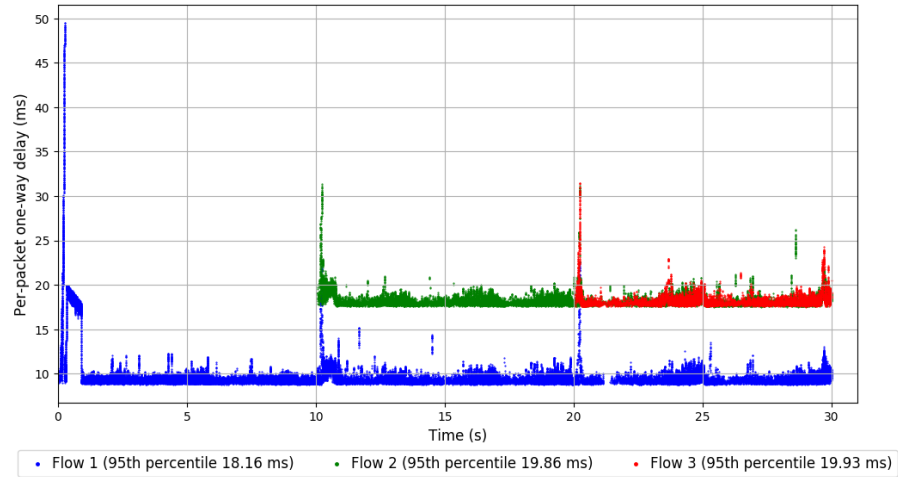
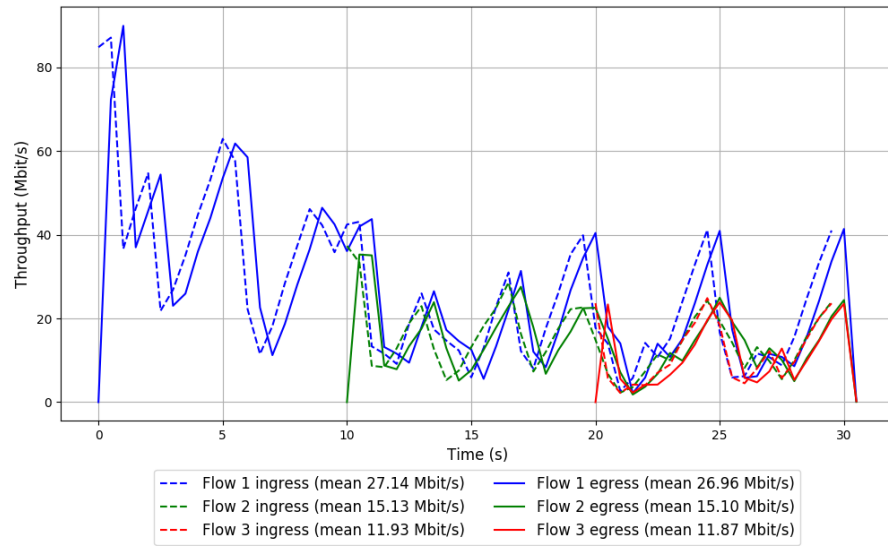
Run 10: Statistics of TCP Vegas

Start at: 2018-08-22 05:26:18  
End at: 2018-08-22 05:26:48  
Local clock offset: -0.395 ms  
Remote clock offset: -60.593 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.96 Mbit/s  
95th percentile per-packet one-way delay: 19.299 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 26.96 Mbit/s  
95th percentile per-packet one-way delay: 18.165 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 15.10 Mbit/s  
95th percentile per-packet one-way delay: 19.862 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 11.87 Mbit/s  
95th percentile per-packet one-way delay: 19.933 ms  
Loss rate: 0.58%



# Run 10: Report of TCP Vegas — Data Link

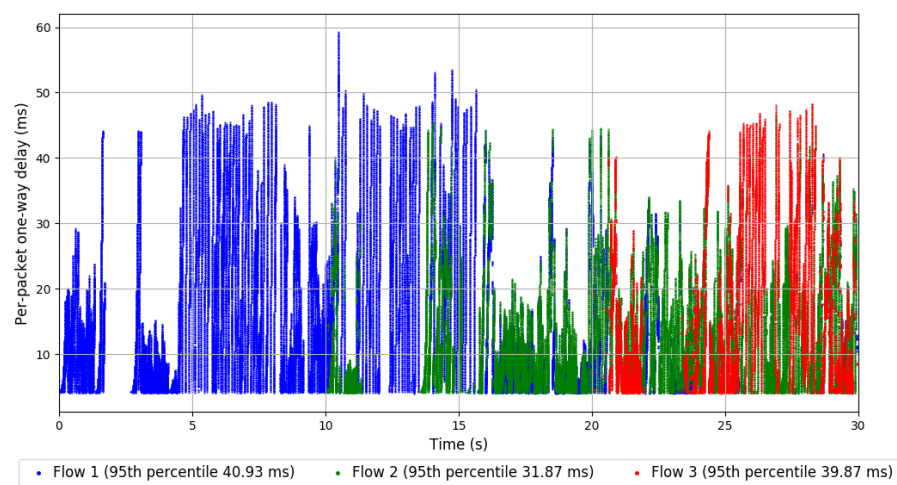
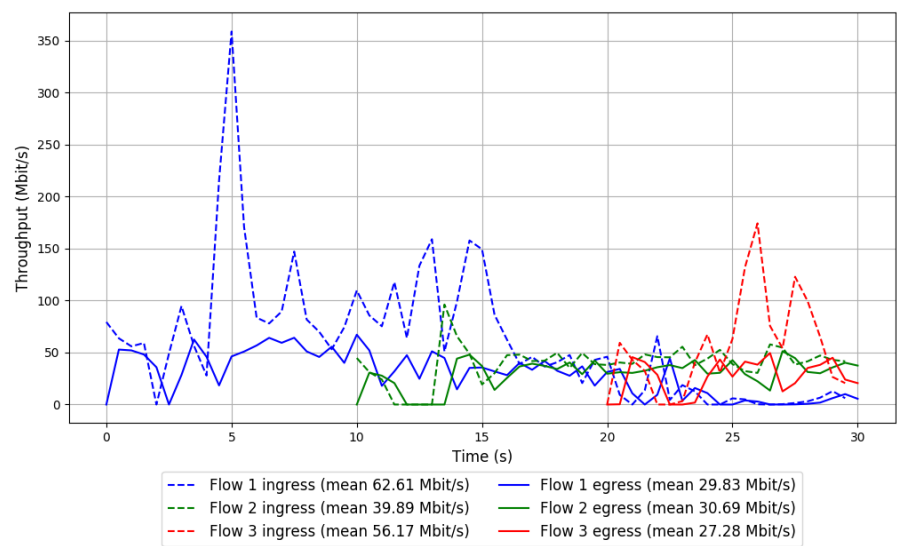


Run 1: Statistics of Verus

Start at: 2018-08-22 02:28:45  
End at: 2018-08-22 02:29:15  
Local clock offset: 4.461 ms  
Remote clock offset: -62.183 ms

# Below is generated by plot.py at 2018-08-22 06:03:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 59.26 Mbit/s  
95th percentile per-packet one-way delay: 38.941 ms  
Loss rate: 44.97%  
-- Flow 1:  
Average throughput: 29.83 Mbit/s  
95th percentile per-packet one-way delay: 40.929 ms  
Loss rate: 52.35%  
-- Flow 2:  
Average throughput: 30.69 Mbit/s  
95th percentile per-packet one-way delay: 31.868 ms  
Loss rate: 23.00%  
-- Flow 3:  
Average throughput: 27.28 Mbit/s  
95th percentile per-packet one-way delay: 39.870 ms  
Loss rate: 51.43%

Run 1: Report of Verus — Data Link

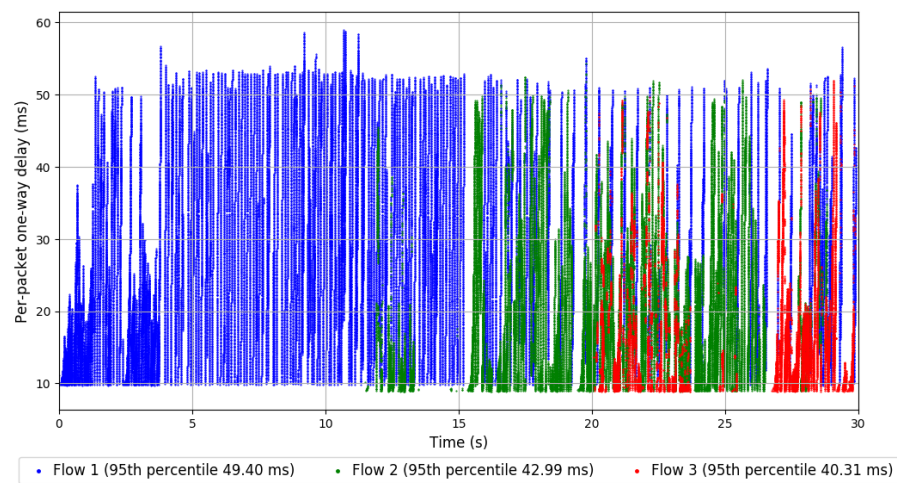
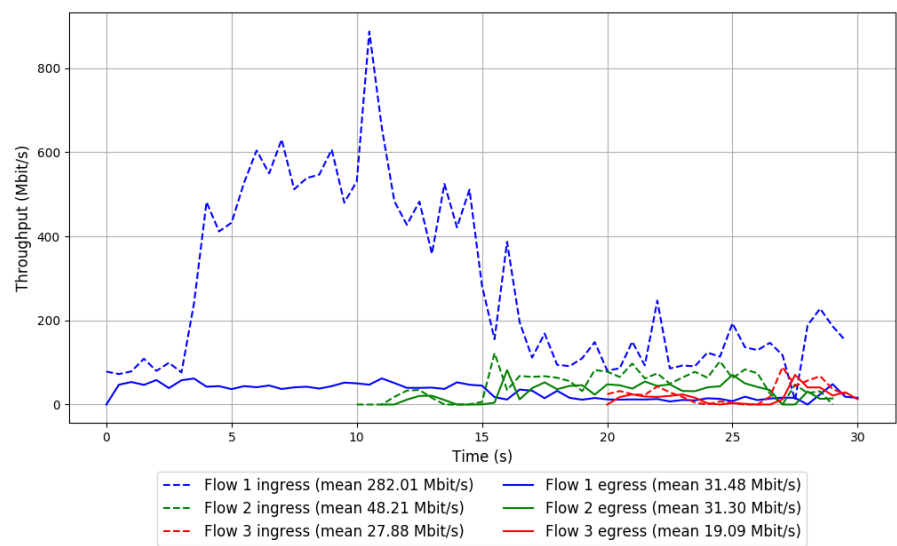


Run 2: Statistics of Verus

Start at: 2018-08-22 02:48:06  
End at: 2018-08-22 02:48:36  
Local clock offset: 0.213 ms  
Remote clock offset: -59.722 ms

# Below is generated by plot.py at 2018-08-22 06:03:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.96 Mbit/s  
95th percentile per-packet one-way delay: 47.675 ms  
Loss rate: 82.56%  
-- Flow 1:  
Average throughput: 31.48 Mbit/s  
95th percentile per-packet one-way delay: 49.396 ms  
Loss rate: 88.83%  
-- Flow 2:  
Average throughput: 31.30 Mbit/s  
95th percentile per-packet one-way delay: 42.989 ms  
Loss rate: 39.18%  
-- Flow 3:  
Average throughput: 19.09 Mbit/s  
95th percentile per-packet one-way delay: 40.309 ms  
Loss rate: 31.36%

Run 2: Report of Verus — Data Link

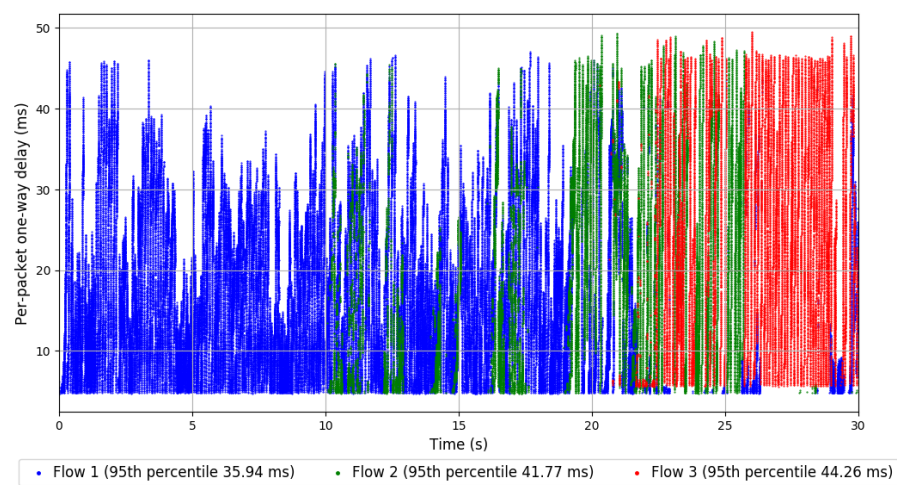
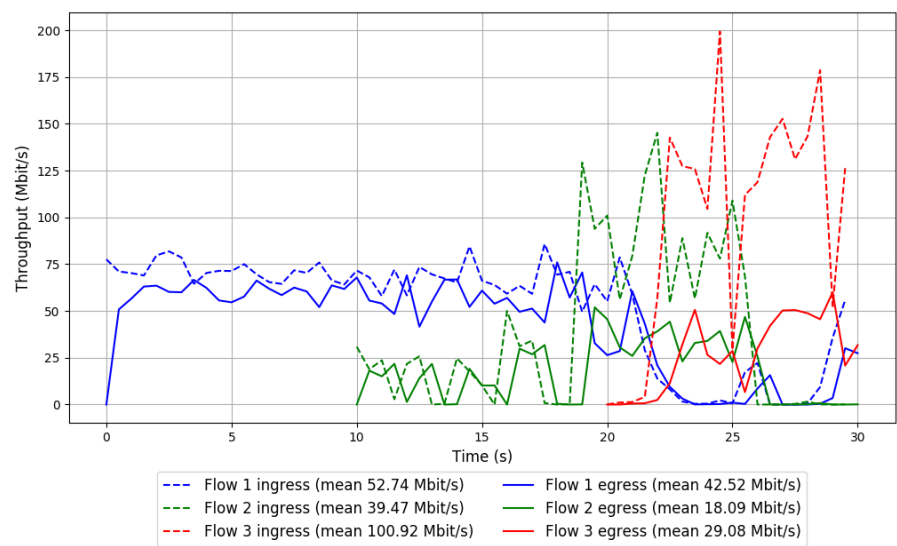


Run 3: Statistics of Verus

Start at: 2018-08-22 03:07:37  
End at: 2018-08-22 03:08:07  
Local clock offset: 3.937 ms  
Remote clock offset: -61.62 ms

# Below is generated by plot.py at 2018-08-22 06:03:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 63.88 Mbit/s  
95th percentile per-packet one-way delay: 39.767 ms  
Loss rate: 42.69%  
-- Flow 1:  
Average throughput: 42.52 Mbit/s  
95th percentile per-packet one-way delay: 35.942 ms  
Loss rate: 19.33%  
-- Flow 2:  
Average throughput: 18.09 Mbit/s  
95th percentile per-packet one-way delay: 41.768 ms  
Loss rate: 54.19%  
-- Flow 3:  
Average throughput: 29.08 Mbit/s  
95th percentile per-packet one-way delay: 44.262 ms  
Loss rate: 71.24%

Run 3: Report of Verus — Data Link



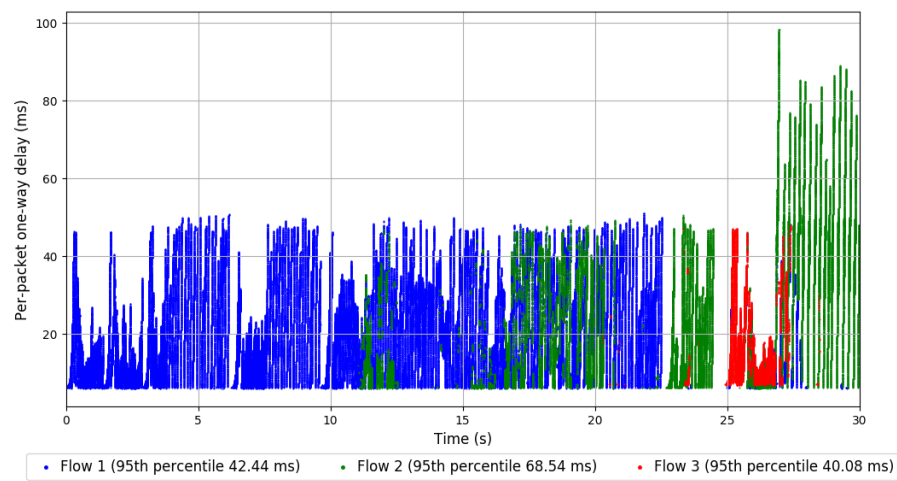
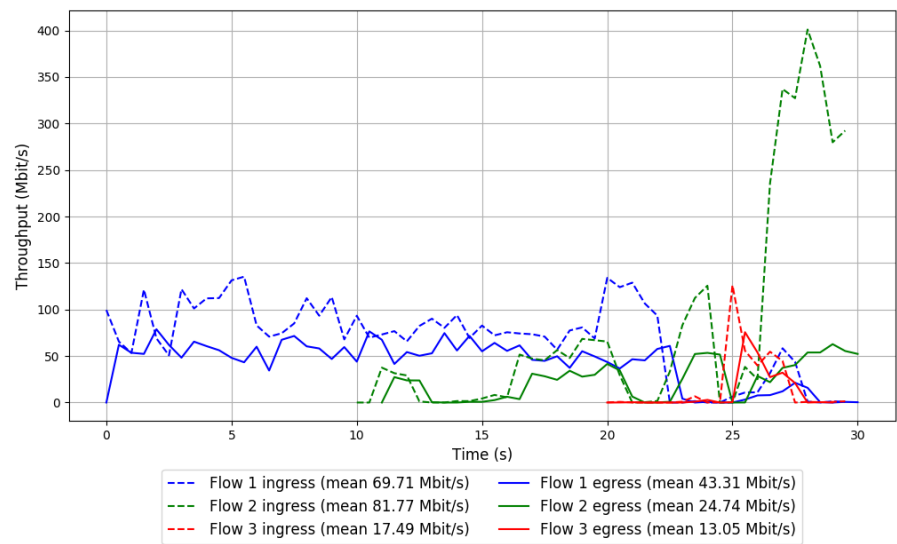
Run 4: Statistics of Verus

Start at: 2018-08-22 03:27:20  
End at: 2018-08-22 03:27:50  
Local clock offset: 1.382 ms  
Remote clock offset: -62.796 ms

# Below is generated by plot.py at 2018-08-22 06:03:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 61.94 Mbit/s  
95th percentile per-packet one-way delay: 46.228 ms  
Loss rate: 52.03%  
-- Flow 1:  
Average throughput: 43.31 Mbit/s  
95th percentile per-packet one-way delay: 42.441 ms  
Loss rate: 38.34%  
-- Flow 2:  
Average throughput: 24.74 Mbit/s  
95th percentile per-packet one-way delay: 68.539 ms  
Loss rate: 71.21%  
-- Flow 3:  
Average throughput: 13.05 Mbit/s  
95th percentile per-packet one-way delay: 40.079 ms  
Loss rate: 35.49%



Run 4: Report of Verus — Data Link

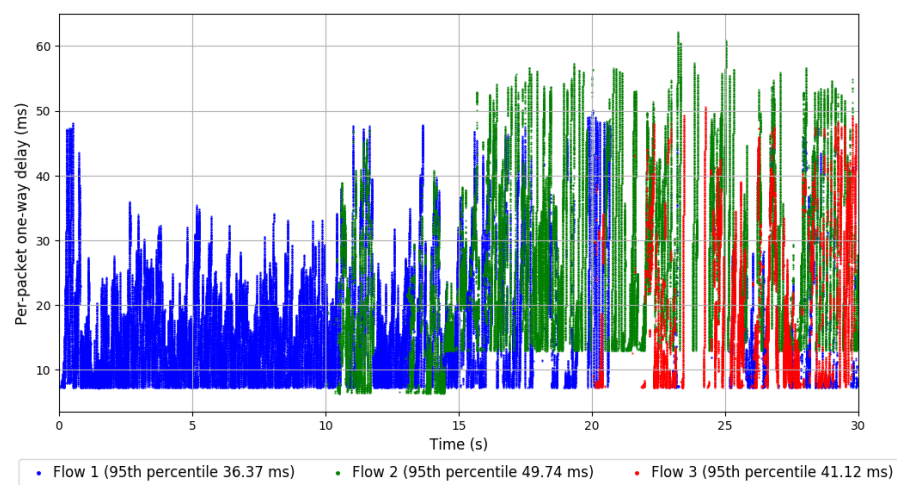
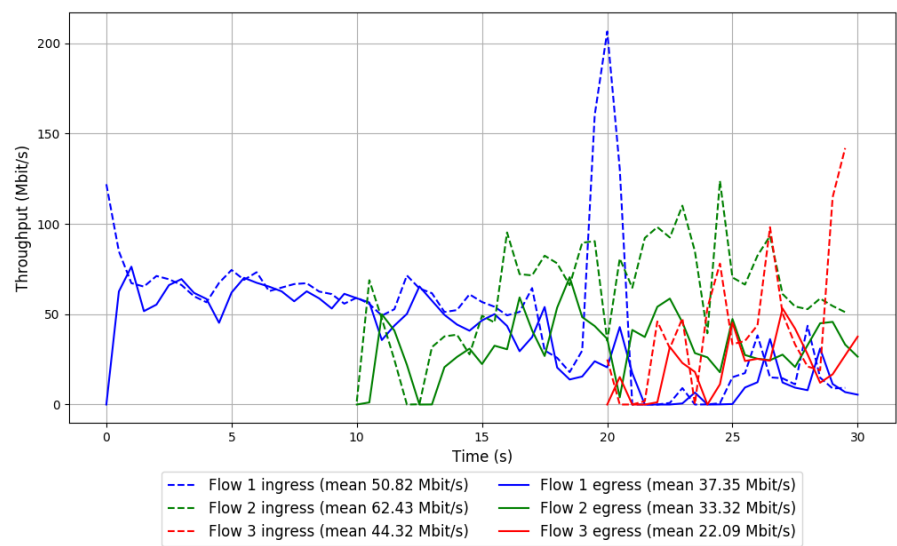


Run 5: Statistics of Verus

Start at: 2018-08-22 03:47:11  
End at: 2018-08-22 03:47:41  
Local clock offset: 2.527 ms  
Remote clock offset: -61.85 ms

# Below is generated by plot.py at 2018-08-22 06:03:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 66.74 Mbit/s  
95th percentile per-packet one-way delay: 44.139 ms  
Loss rate: 37.55%  
-- Flow 1:  
Average throughput: 37.35 Mbit/s  
95th percentile per-packet one-way delay: 36.372 ms  
Loss rate: 26.52%  
-- Flow 2:  
Average throughput: 33.32 Mbit/s  
95th percentile per-packet one-way delay: 49.737 ms  
Loss rate: 46.63%  
-- Flow 3:  
Average throughput: 22.09 Mbit/s  
95th percentile per-packet one-way delay: 41.116 ms  
Loss rate: 50.13%

Run 5: Report of Verus — Data Link

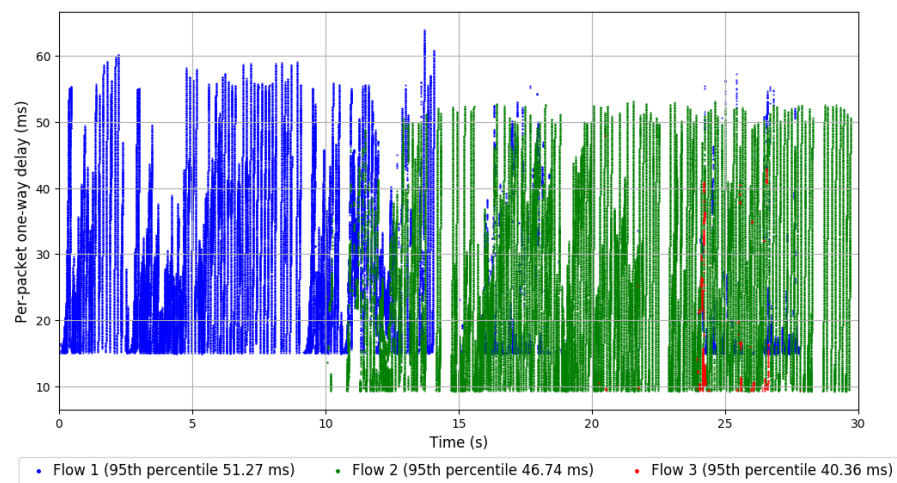
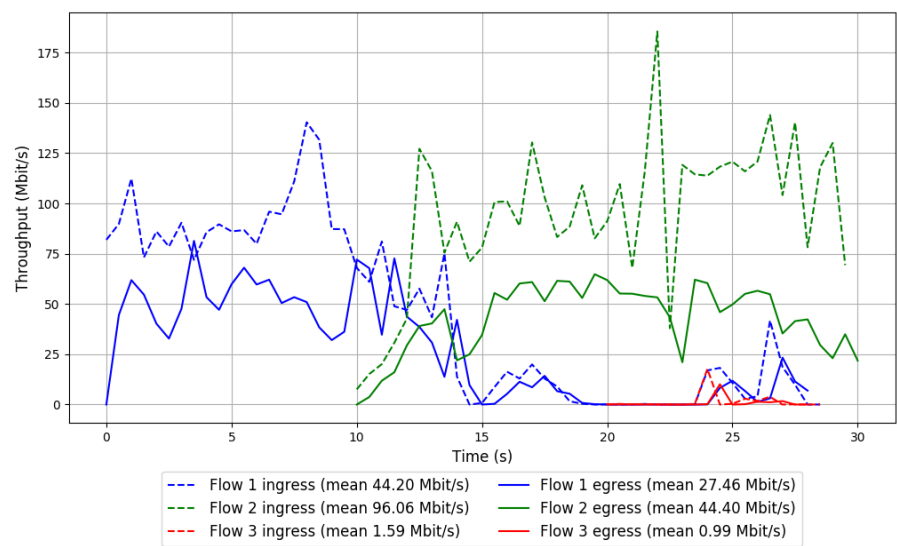


Run 6: Statistics of Verus

Start at: 2018-08-22 04:06:44  
End at: 2018-08-22 04:07:14  
Local clock offset: 1.653 ms  
Remote clock offset: -61.501 ms

# Below is generated by plot.py at 2018-08-22 06:03:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 55.38 Mbit/s  
95th percentile per-packet one-way delay: 48.862 ms  
Loss rate: 48.36%  
-- Flow 1:  
Average throughput: 27.46 Mbit/s  
95th percentile per-packet one-way delay: 51.275 ms  
Loss rate: 40.42%  
-- Flow 2:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 46.740 ms  
Loss rate: 53.76%  
-- Flow 3:  
Average throughput: 0.99 Mbit/s  
95th percentile per-packet one-way delay: 40.358 ms  
Loss rate: 46.12%

Run 6: Report of Verus — Data Link

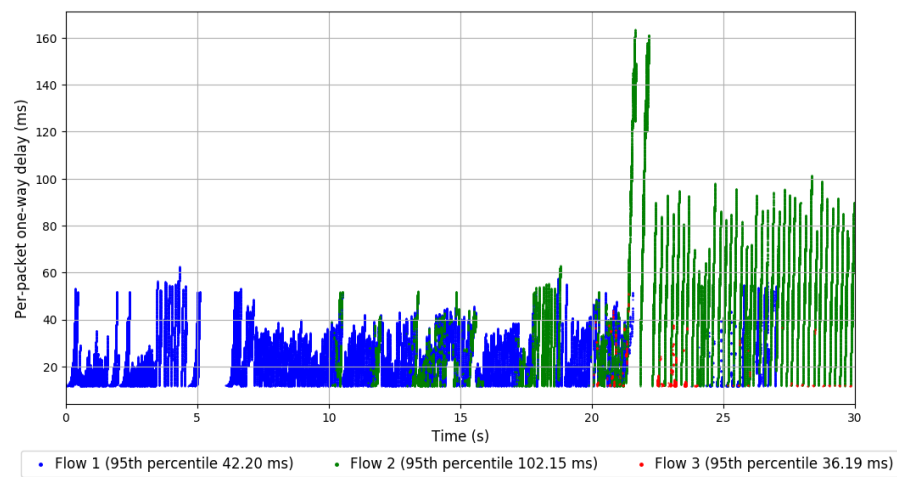
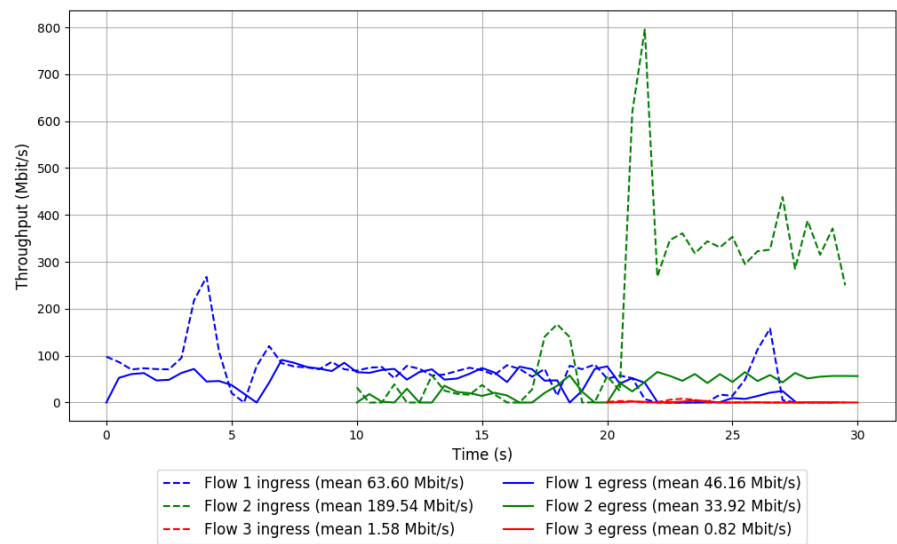


Run 7: Statistics of Verus

Start at: 2018-08-22 04:26:20  
End at: 2018-08-22 04:26:50  
Local clock offset: 3.637 ms  
Remote clock offset: -63.709 ms

# Below is generated by plot.py at 2018-08-22 06:03:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.55 Mbit/s  
95th percentile per-packet one-way delay: 75.773 ms  
Loss rate: 65.65%  
-- Flow 1:  
Average throughput: 46.16 Mbit/s  
95th percentile per-packet one-way delay: 42.198 ms  
Loss rate: 32.40%  
-- Flow 2:  
Average throughput: 33.92 Mbit/s  
95th percentile per-packet one-way delay: 102.153 ms  
Loss rate: 82.05%  
-- Flow 3:  
Average throughput: 0.82 Mbit/s  
95th percentile per-packet one-way delay: 36.191 ms  
Loss rate: 48.25%

Run 7: Report of Verus — Data Link



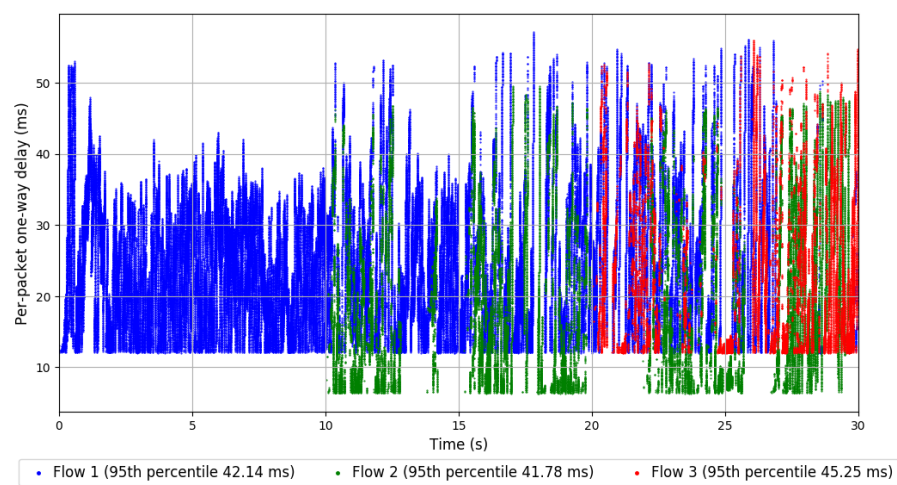
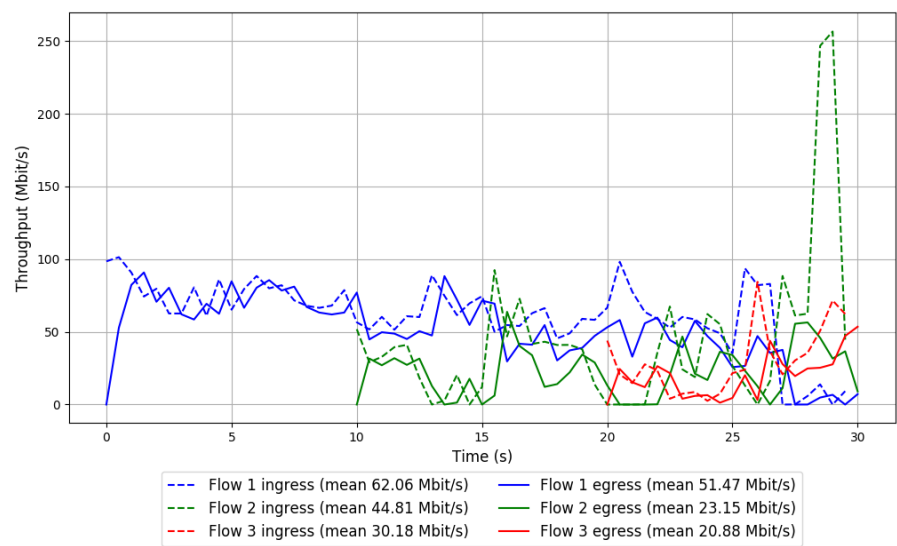
Run 8: Statistics of Verus

Start at: 2018-08-22 04:45:53  
End at: 2018-08-22 04:46:23  
Local clock offset: 3.453 ms  
Remote clock offset: -63.834 ms

# Below is generated by plot.py at 2018-08-22 06:03:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.48 Mbit/s  
95th percentile per-packet one-way delay: 42.457 ms  
Loss rate: 27.48%  
-- Flow 1:  
Average throughput: 51.47 Mbit/s  
95th percentile per-packet one-way delay: 42.141 ms  
Loss rate: 17.11%  
-- Flow 2:  
Average throughput: 23.15 Mbit/s  
95th percentile per-packet one-way delay: 41.781 ms  
Loss rate: 48.33%  
-- Flow 3:  
Average throughput: 20.88 Mbit/s  
95th percentile per-packet one-way delay: 45.253 ms  
Loss rate: 30.63%



Run 8: Report of Verus — Data Link

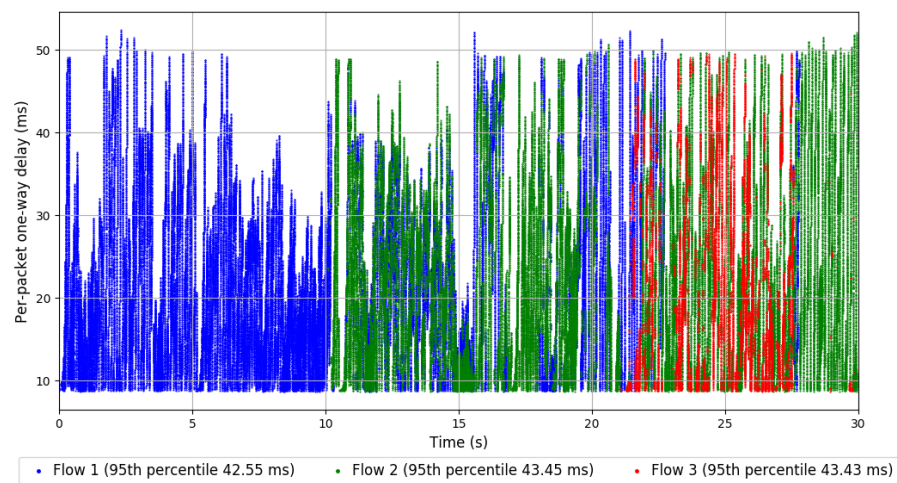
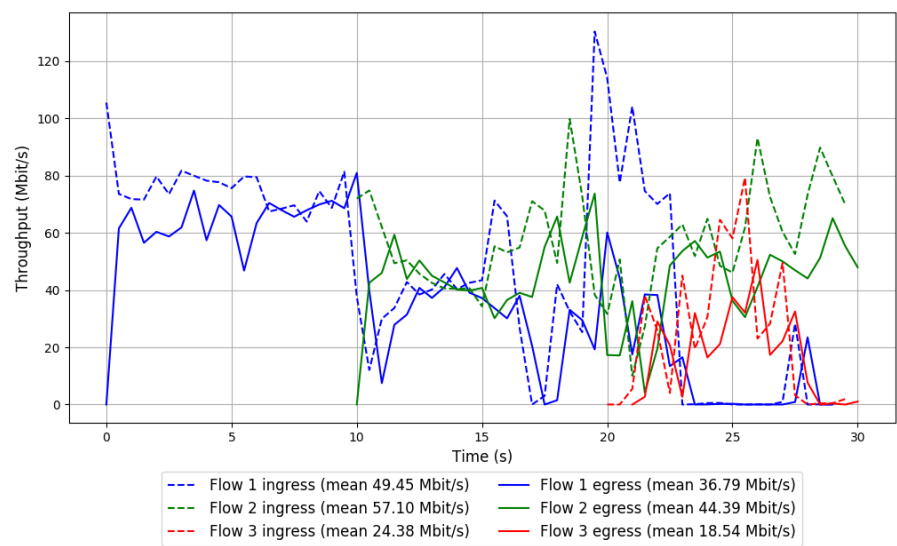


Run 9: Statistics of Verus

Start at: 2018-08-22 05:05:25  
End at: 2018-08-22 05:05:55  
Local clock offset: 0.796 ms  
Remote clock offset: -63.537 ms

# Below is generated by plot.py at 2018-08-22 06:03:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.30 Mbit/s  
95th percentile per-packet one-way delay: 43.042 ms  
Loss rate: 25.12%  
-- Flow 1:  
Average throughput: 36.79 Mbit/s  
95th percentile per-packet one-way delay: 42.546 ms  
Loss rate: 26.27%  
-- Flow 2:  
Average throughput: 44.39 Mbit/s  
95th percentile per-packet one-way delay: 43.454 ms  
Loss rate: 22.28%  
-- Flow 3:  
Average throughput: 18.54 Mbit/s  
95th percentile per-packet one-way delay: 43.430 ms  
Loss rate: 31.72%

Run 9: Report of Verus — Data Link

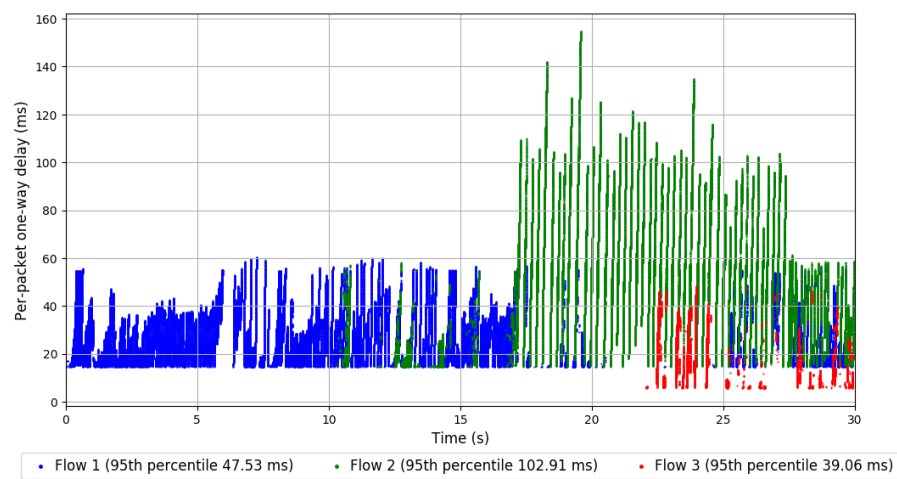
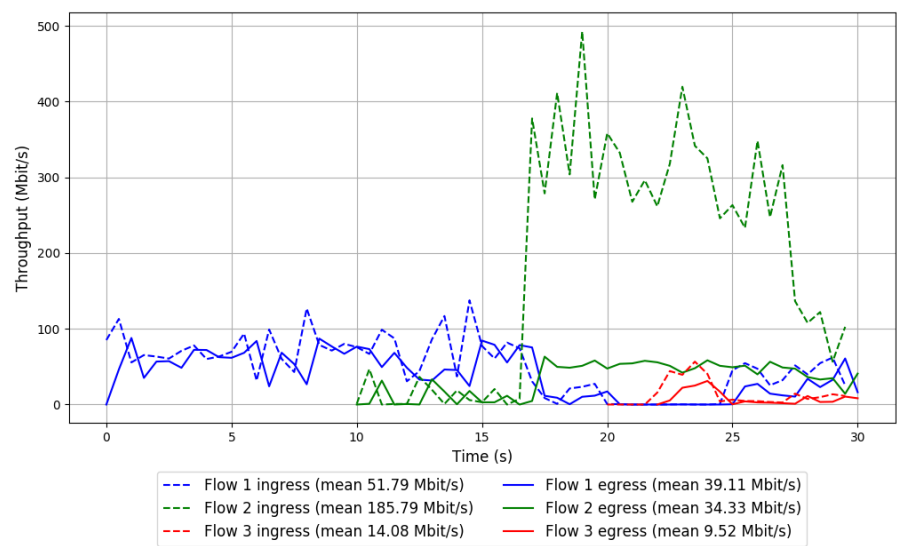


Run 10: Statistics of Verus

Start at: 2018-08-22 05:25:06  
End at: 2018-08-22 05:25:36  
Local clock offset: 2.808 ms  
Remote clock offset: -60.62 ms

# Below is generated by plot.py at 2018-08-22 06:04:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 64.44 Mbit/s  
95th percentile per-packet one-way delay: 89.308 ms  
Loss rate: 64.18%  
-- Flow 1:  
Average throughput: 39.11 Mbit/s  
95th percentile per-packet one-way delay: 47.529 ms  
Loss rate: 24.40%  
-- Flow 2:  
Average throughput: 34.33 Mbit/s  
95th percentile per-packet one-way delay: 102.905 ms  
Loss rate: 81.52%  
-- Flow 3:  
Average throughput: 9.52 Mbit/s  
95th percentile per-packet one-way delay: 39.058 ms  
Loss rate: 46.00%

Run 10: Report of Verus — Data Link

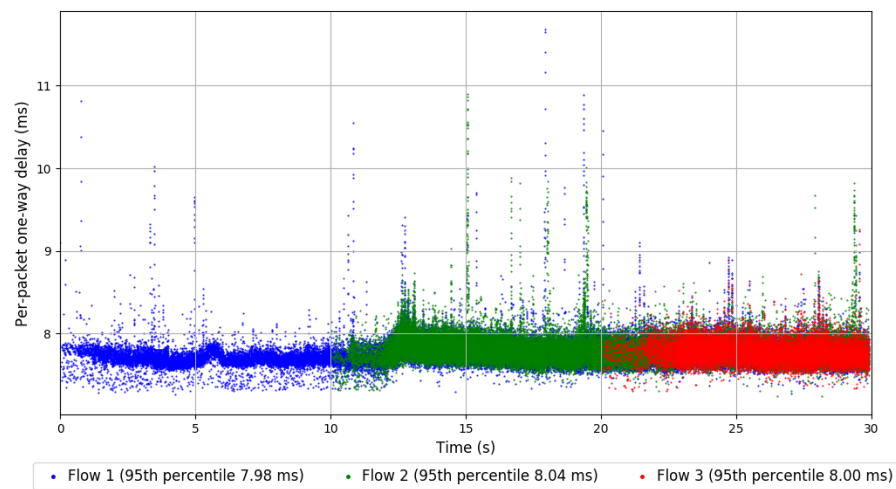
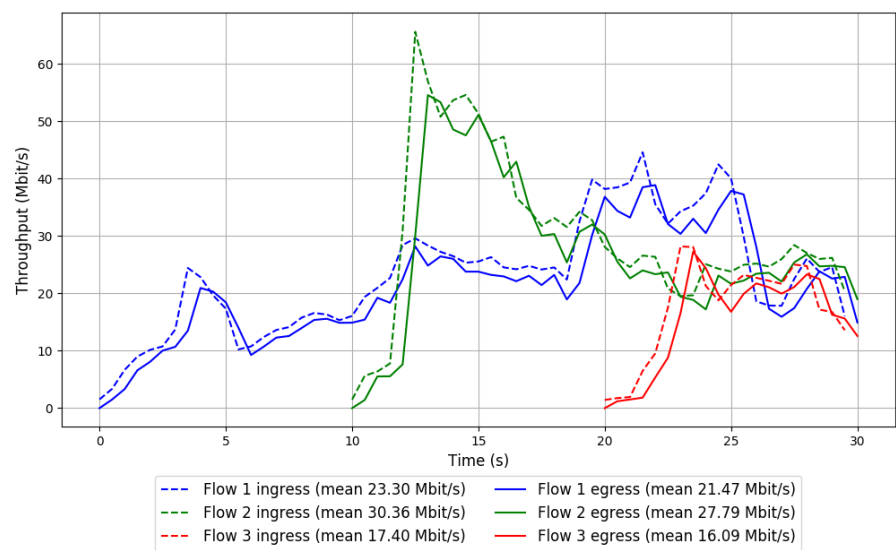


Run 1: Statistics of PCC-Vivace

Start at: 2018-08-22 02:26:30  
End at: 2018-08-22 02:27:00  
Local clock offset: 2.684 ms  
Remote clock offset: -60.762 ms

# Below is generated by plot.py at 2018-08-22 06:04:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 45.27 Mbit/s  
95th percentile per-packet one-way delay: 8.008 ms  
Loss rate: 8.08%  
-- Flow 1:  
Average throughput: 21.47 Mbit/s  
95th percentile per-packet one-way delay: 7.982 ms  
Loss rate: 7.84%  
-- Flow 2:  
Average throughput: 27.79 Mbit/s  
95th percentile per-packet one-way delay: 8.039 ms  
Loss rate: 8.49%  
-- Flow 3:  
Average throughput: 16.09 Mbit/s  
95th percentile per-packet one-way delay: 7.999 ms  
Loss rate: 7.56%

Run 1: Report of PCC-Vivace — Data Link



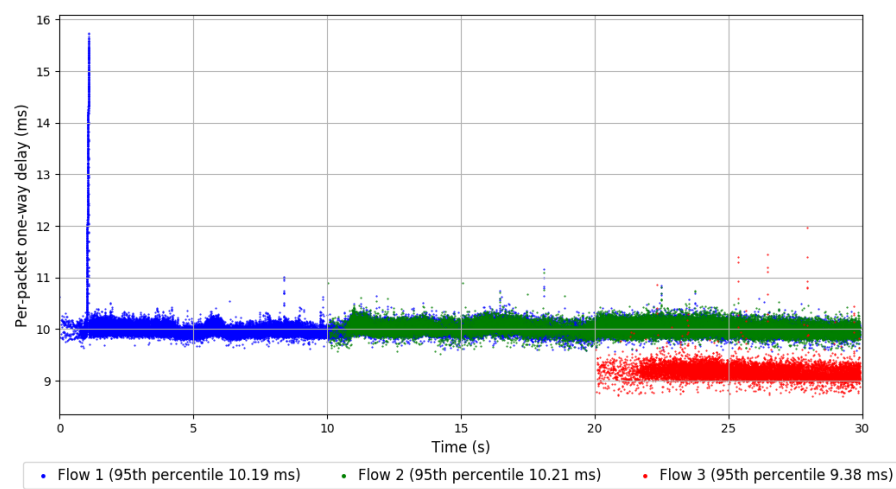
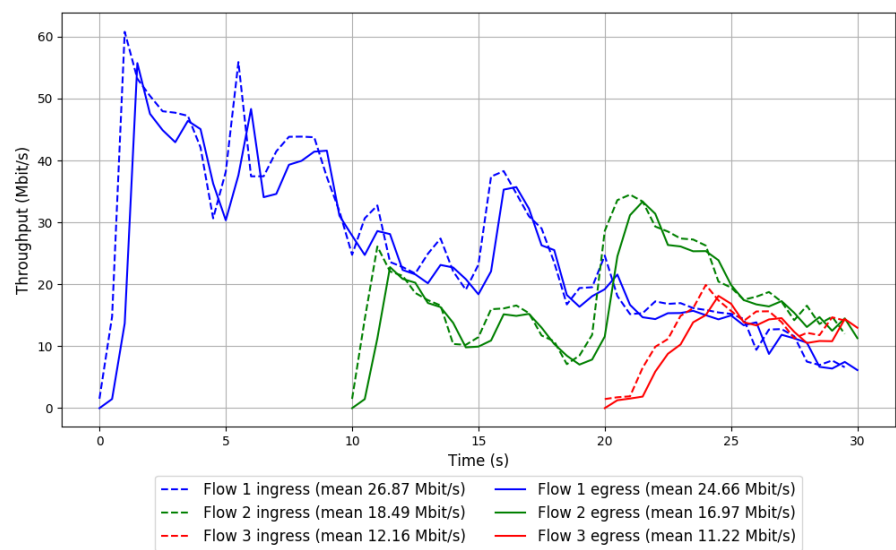
Run 2: Statistics of PCC-Vivace

Start at: 2018-08-22 02:45:52  
End at: 2018-08-22 02:46:22  
Local clock offset: 0.249 ms  
Remote clock offset: -59.77 ms

# Below is generated by plot.py at 2018-08-22 06:04:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.65 Mbit/s  
95th percentile per-packet one-way delay: 10.189 ms  
Loss rate: 8.19%  
-- Flow 1:  
Average throughput: 24.66 Mbit/s  
95th percentile per-packet one-way delay: 10.187 ms  
Loss rate: 8.24%  
-- Flow 2:  
Average throughput: 16.97 Mbit/s  
95th percentile per-packet one-way delay: 10.206 ms  
Loss rate: 8.25%  
-- Flow 3:  
Average throughput: 11.22 Mbit/s  
95th percentile per-packet one-way delay: 9.377 ms  
Loss rate: 7.73%



Run 2: Report of PCC-Vivace — Data Link

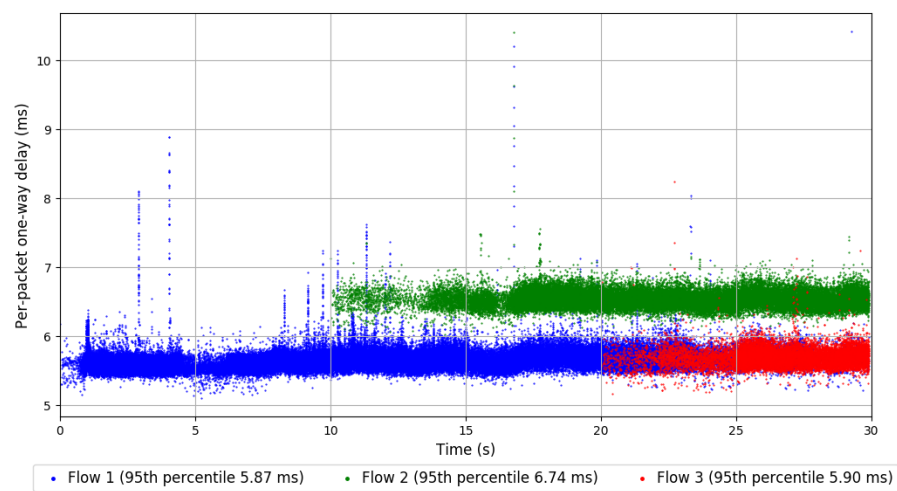
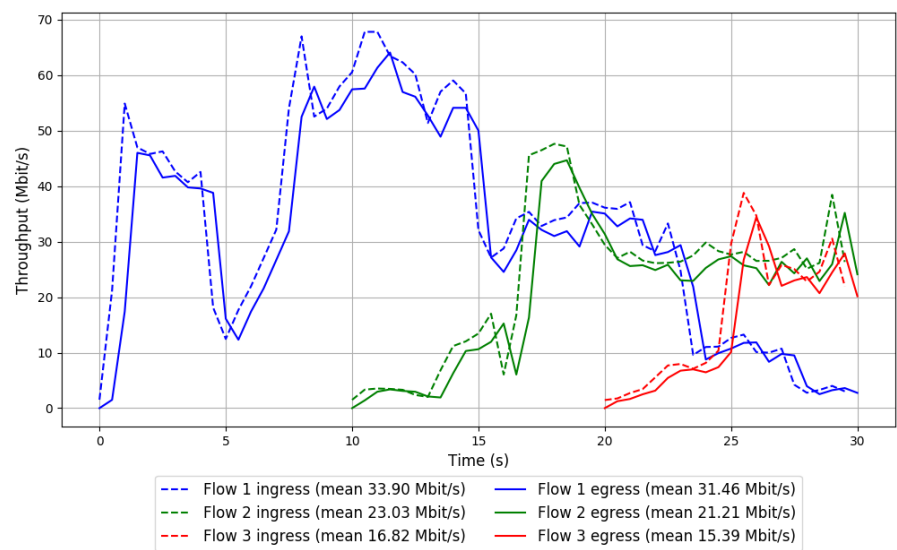


Run 3: Statistics of PCC-Vivace

Start at: 2018-08-22 03:05:24  
End at: 2018-08-22 03:05:54  
Local clock offset: 2.866 ms  
Remote clock offset: -61.878 ms

# Below is generated by plot.py at 2018-08-22 06:04:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 50.65 Mbit/s  
95th percentile per-packet one-way delay: 6.641 ms  
Loss rate: 7.53%  
-- Flow 1:  
Average throughput: 31.46 Mbit/s  
95th percentile per-packet one-way delay: 5.870 ms  
Loss rate: 7.20%  
-- Flow 2:  
Average throughput: 21.21 Mbit/s  
95th percentile per-packet one-way delay: 6.735 ms  
Loss rate: 7.89%  
-- Flow 3:  
Average throughput: 15.39 Mbit/s  
95th percentile per-packet one-way delay: 5.904 ms  
Loss rate: 8.53%

Run 3: Report of PCC-Vivace — Data Link

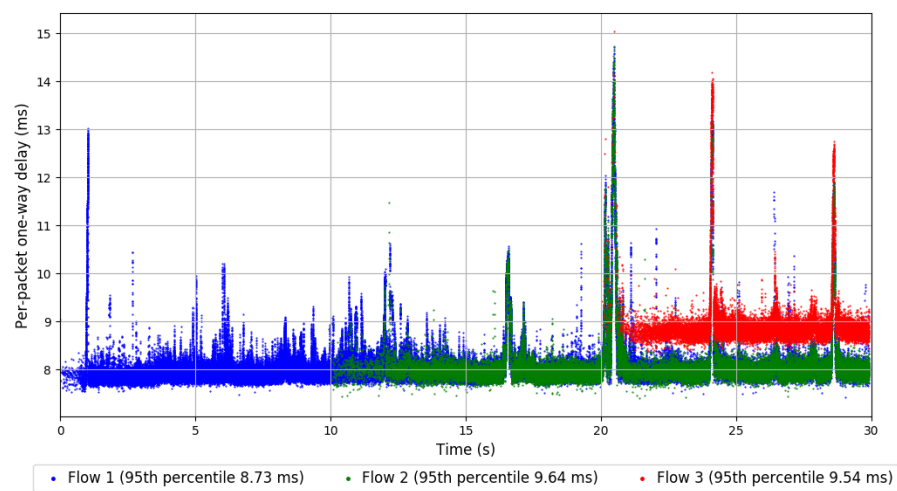
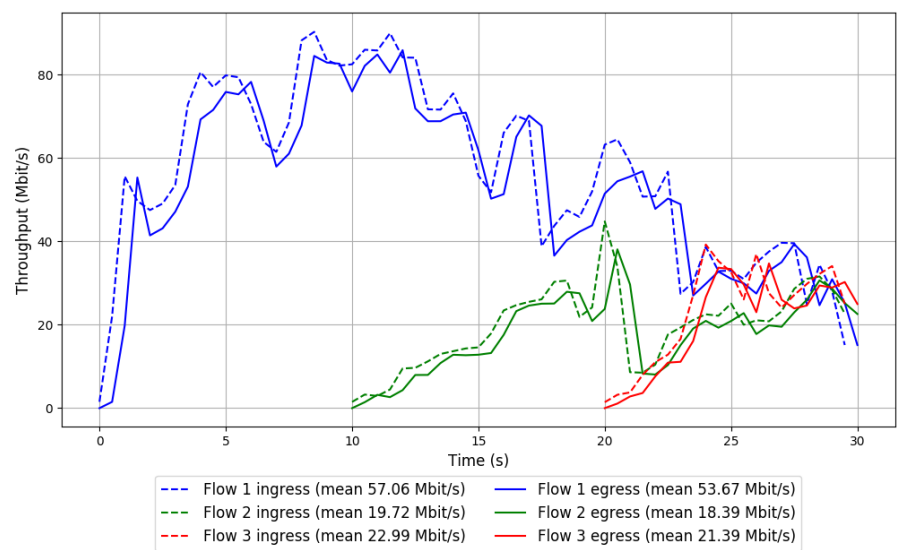


Run 4: Statistics of PCC-Vivace

Start at: 2018-08-22 03:25:05  
End at: 2018-08-22 03:25:35  
Local clock offset: -0.341 ms  
Remote clock offset: -62.827 ms

# Below is generated by plot.py at 2018-08-22 06:04:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.96 Mbit/s  
95th percentile per-packet one-way delay: 9.079 ms  
Loss rate: 6.18%  
-- Flow 1:  
Average throughput: 53.67 Mbit/s  
95th percentile per-packet one-way delay: 8.732 ms  
Loss rate: 5.94%  
-- Flow 2:  
Average throughput: 18.39 Mbit/s  
95th percentile per-packet one-way delay: 9.644 ms  
Loss rate: 6.75%  
-- Flow 3:  
Average throughput: 21.39 Mbit/s  
95th percentile per-packet one-way delay: 9.545 ms  
Loss rate: 6.96%

Run 4: Report of PCC-Vivace — Data Link

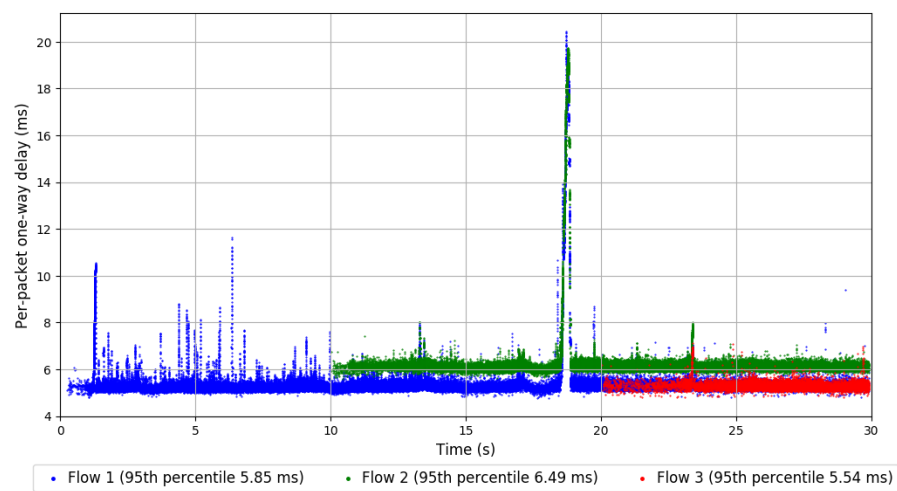
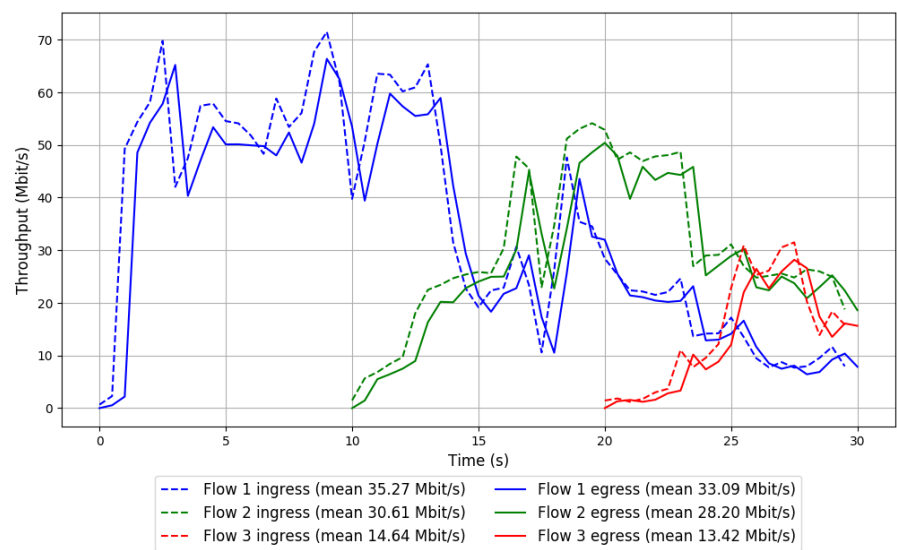


Run 5: Statistics of PCC-Vivace

Start at: 2018-08-22 03:44:57  
End at: 2018-08-22 03:45:27  
Local clock offset: 2.914 ms  
Remote clock offset: -62.59 ms

# Below is generated by plot.py at 2018-08-22 06:04:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 56.47 Mbit/s  
95th percentile per-packet one-way delay: 6.348 ms  
Loss rate: 7.38%  
-- Flow 1:  
Average throughput: 33.09 Mbit/s  
95th percentile per-packet one-way delay: 5.852 ms  
Loss rate: 6.97%  
-- Flow 2:  
Average throughput: 28.20 Mbit/s  
95th percentile per-packet one-way delay: 6.485 ms  
Loss rate: 7.88%  
-- Flow 3:  
Average throughput: 13.42 Mbit/s  
95th percentile per-packet one-way delay: 5.542 ms  
Loss rate: 8.36%

Run 5: Report of PCC-Vivace — Data Link



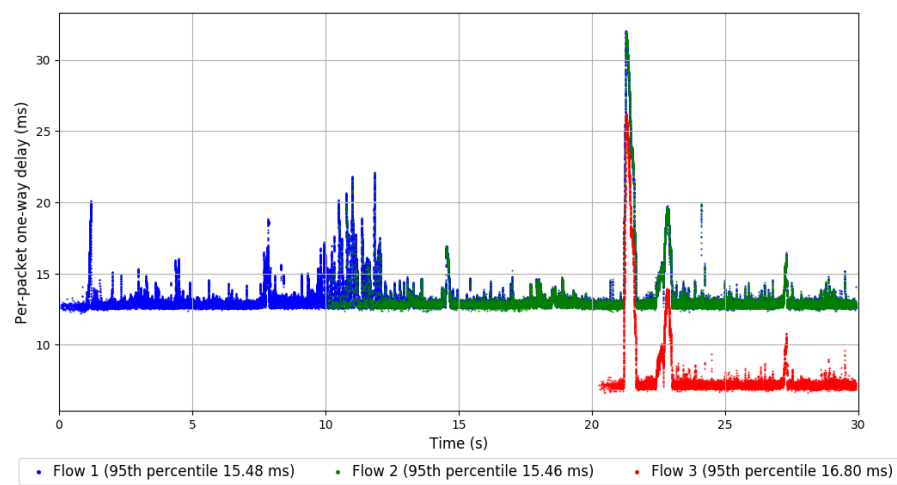
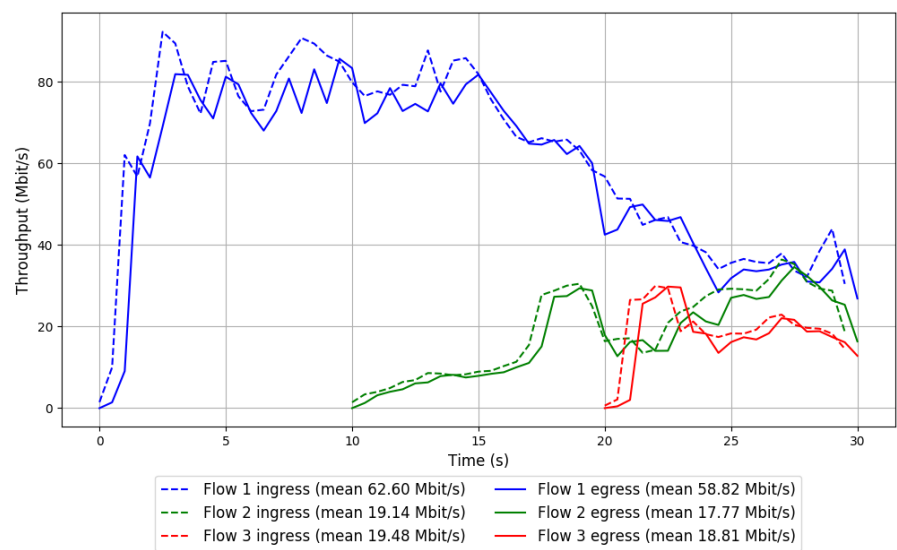
Run 6: Statistics of PCC-Vivace

Start at: 2018-08-22 04:04:28  
End at: 2018-08-22 04:04:58  
Local clock offset: 3.883 ms  
Remote clock offset: -61.679 ms

# Below is generated by plot.py at 2018-08-22 06:04:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.69 Mbit/s  
95th percentile per-packet one-way delay: 15.502 ms  
Loss rate: 6.22%  
-- Flow 1:  
Average throughput: 58.82 Mbit/s  
95th percentile per-packet one-way delay: 15.483 ms  
Loss rate: 6.06%  
-- Flow 2:  
Average throughput: 17.77 Mbit/s  
95th percentile per-packet one-way delay: 15.455 ms  
Loss rate: 7.18%  
-- Flow 3:  
Average throughput: 18.81 Mbit/s  
95th percentile per-packet one-way delay: 16.805 ms  
Loss rate: 5.90%



Run 6: Report of PCC-Vivace — Data Link

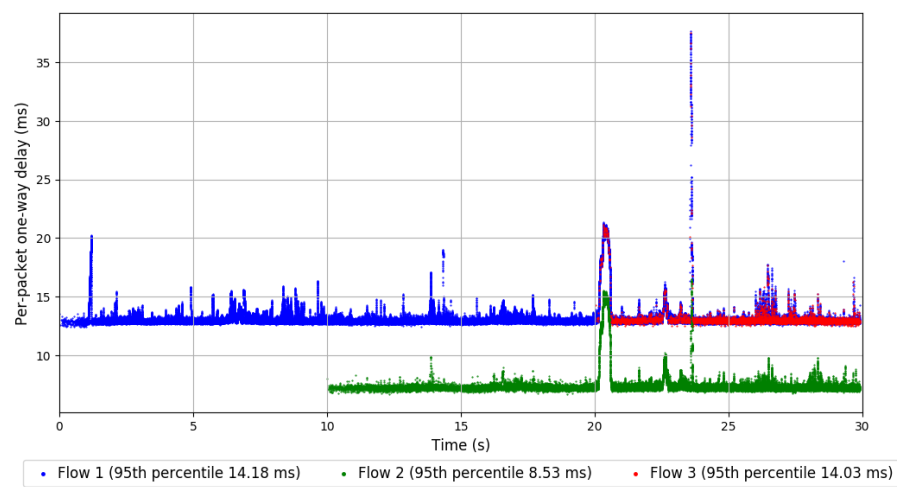
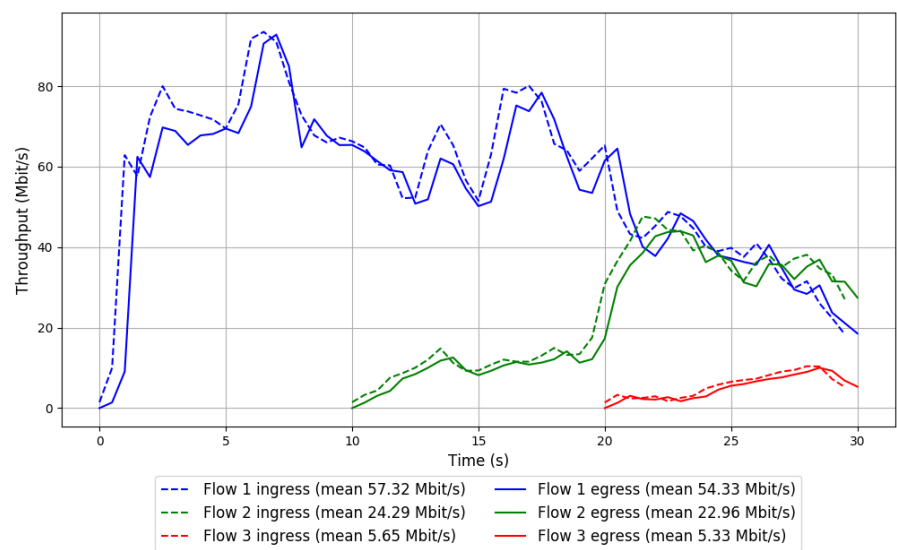


Run 7: Statistics of PCC-Vivace

Start at: 2018-08-22 04:24:02  
End at: 2018-08-22 04:24:32  
Local clock offset: 2.265 ms  
Remote clock offset: -64.013 ms

# Below is generated by plot.py at 2018-08-22 06:04:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.37 Mbit/s  
95th percentile per-packet one-way delay: 13.902 ms  
Loss rate: 5.28%  
-- Flow 1:  
Average throughput: 54.33 Mbit/s  
95th percentile per-packet one-way delay: 14.176 ms  
Loss rate: 5.22%  
-- Flow 2:  
Average throughput: 22.96 Mbit/s  
95th percentile per-packet one-way delay: 8.530 ms  
Loss rate: 5.46%  
-- Flow 3:  
Average throughput: 5.33 Mbit/s  
95th percentile per-packet one-way delay: 14.026 ms  
Loss rate: 5.68%

Run 7: Report of PCC-Vivace — Data Link

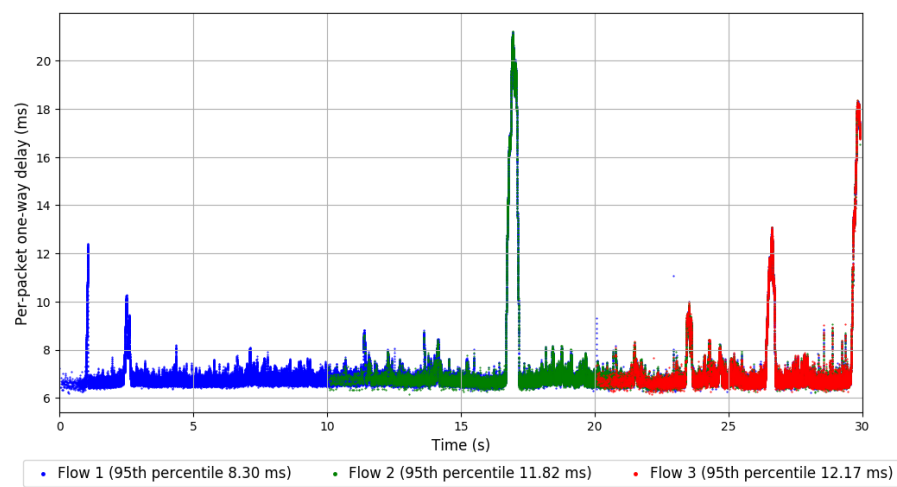
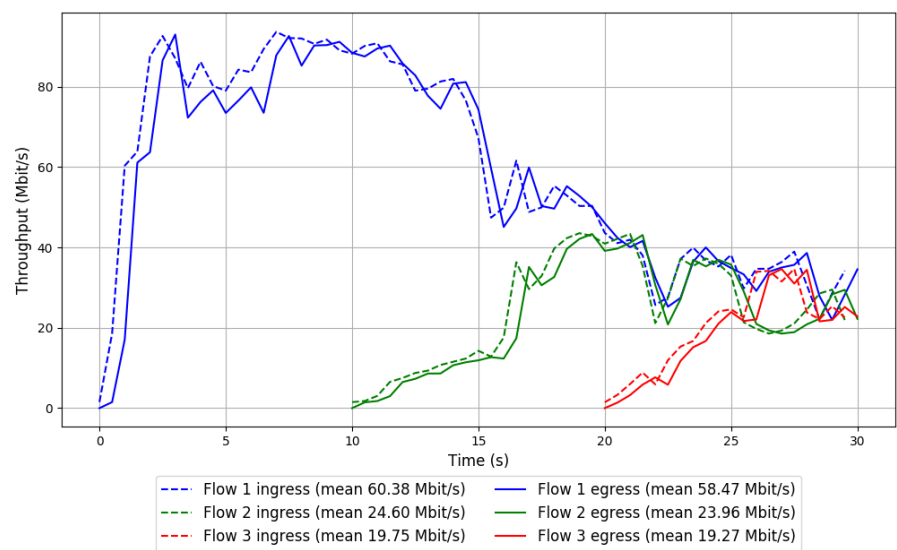


Run 8: Statistics of PCC-Vivace

Start at: 2018-08-22 04:43:36  
End at: 2018-08-22 04:44:06  
Local clock offset: 3.098 ms  
Remote clock offset: -64.423 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.78 Mbit/s  
95th percentile per-packet one-way delay: 9.187 ms  
Loss rate: 2.96%  
-- Flow 1:  
Average throughput: 58.47 Mbit/s  
95th percentile per-packet one-way delay: 8.297 ms  
Loss rate: 3.13%  
-- Flow 2:  
Average throughput: 23.96 Mbit/s  
95th percentile per-packet one-way delay: 11.820 ms  
Loss rate: 2.57%  
-- Flow 3:  
Average throughput: 19.27 Mbit/s  
95th percentile per-packet one-way delay: 12.174 ms  
Loss rate: 2.33%

Run 8: Report of PCC-Vivace — Data Link

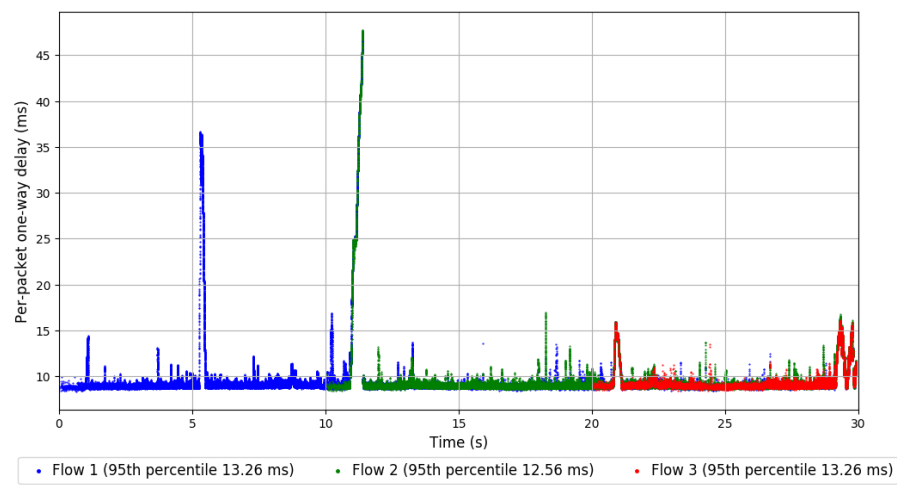
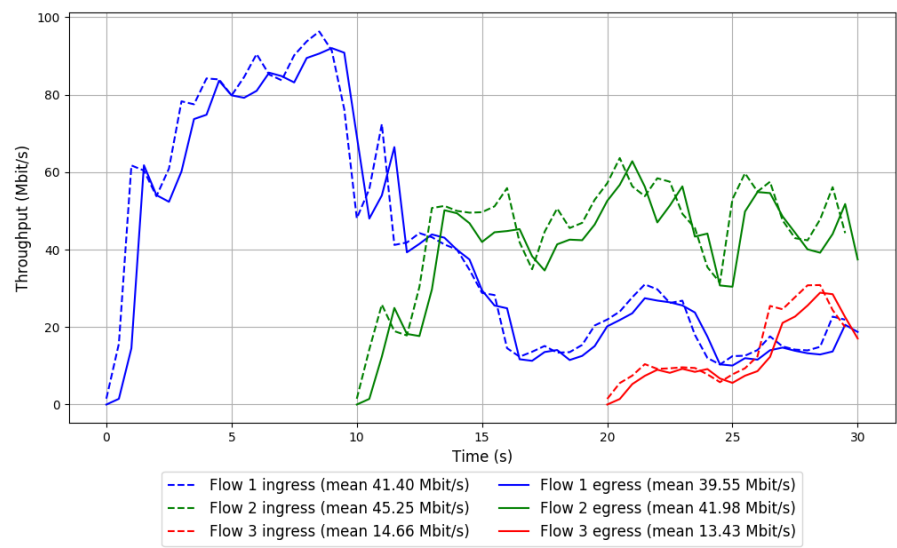


Run 9: Statistics of PCC-Vivace

Start at: 2018-08-22 05:03:09  
End at: 2018-08-22 05:03:39  
Local clock offset: 0.721 ms  
Remote clock offset: -63.042 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.90 Mbit/s  
95th percentile per-packet one-way delay: 12.867 ms  
Loss rate: 5.80%  
-- Flow 1:  
Average throughput: 39.55 Mbit/s  
95th percentile per-packet one-way delay: 13.255 ms  
Loss rate: 4.47%  
-- Flow 2:  
Average throughput: 41.98 Mbit/s  
95th percentile per-packet one-way delay: 12.560 ms  
Loss rate: 7.21%  
-- Flow 3:  
Average throughput: 13.43 Mbit/s  
95th percentile per-packet one-way delay: 13.264 ms  
Loss rate: 8.39%

Run 9: Report of PCC-Vivace — Data Link



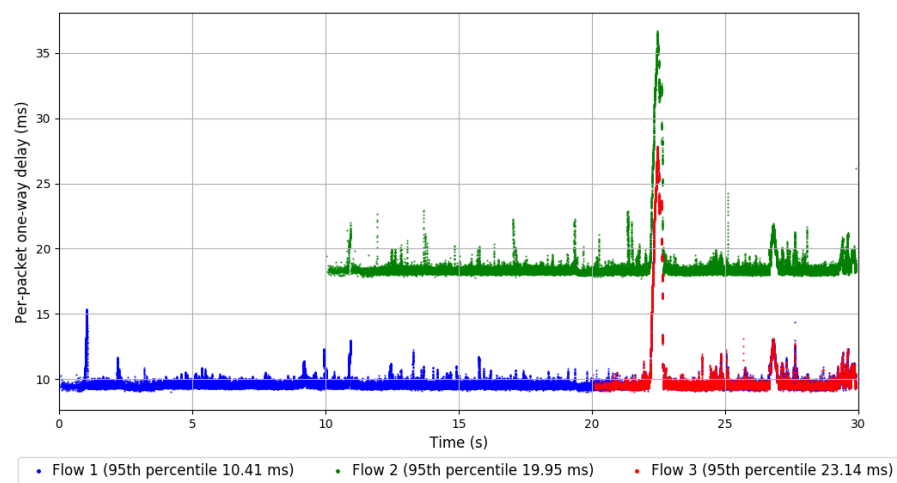
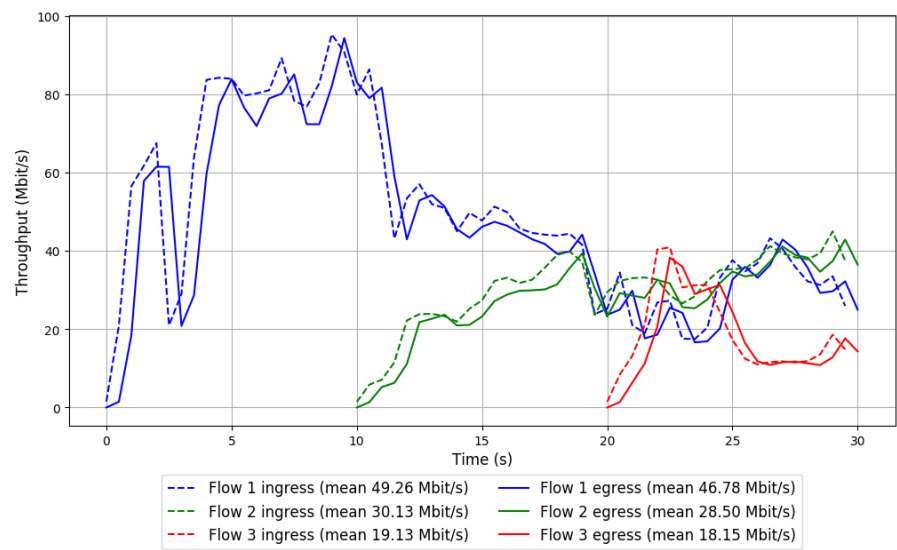
Run 10: Statistics of PCC-Vivace

Start at: 2018-08-22 05:22:50  
End at: 2018-08-22 05:23:20  
Local clock offset: -0.624 ms  
Remote clock offset: -61.114 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 71.72 Mbit/s  
95th percentile per-packet one-way delay: 18.723 ms  
Loss rate: 5.13%  
-- Flow 1:  
Average throughput: 46.78 Mbit/s  
95th percentile per-packet one-way delay: 10.412 ms  
Loss rate: 5.02%  
-- Flow 2:  
Average throughput: 28.50 Mbit/s  
95th percentile per-packet one-way delay: 19.955 ms  
Loss rate: 5.42%  
-- Flow 3:  
Average throughput: 18.15 Mbit/s  
95th percentile per-packet one-way delay: 23.137 ms  
Loss rate: 5.09%



Run 10: Report of PCC-Vivace — Data Link

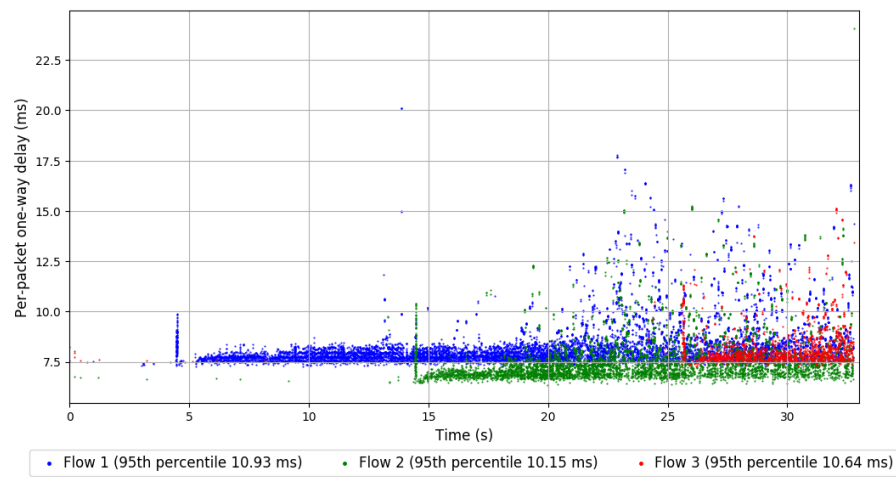
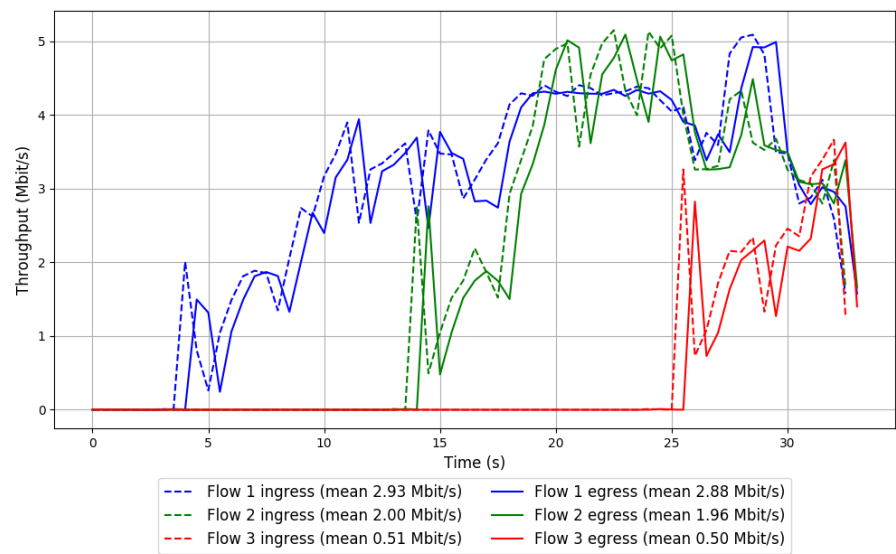


Run 1: Statistics of WebRTC media

Start at: 2018-08-22 02:33:14  
End at: 2018-08-22 02:33:44  
Local clock offset: 2.929 ms  
Remote clock offset: -60.629 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.32 Mbit/s  
95th percentile per-packet one-way delay: 10.660 ms  
Loss rate: 1.84%  
-- Flow 1:  
Average throughput: 2.88 Mbit/s  
95th percentile per-packet one-way delay: 10.927 ms  
Loss rate: 1.71%  
-- Flow 2:  
Average throughput: 1.96 Mbit/s  
95th percentile per-packet one-way delay: 10.151 ms  
Loss rate: 1.73%  
-- Flow 3:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 10.641 ms  
Loss rate: 2.98%

Run 1: Report of WebRTC media — Data Link

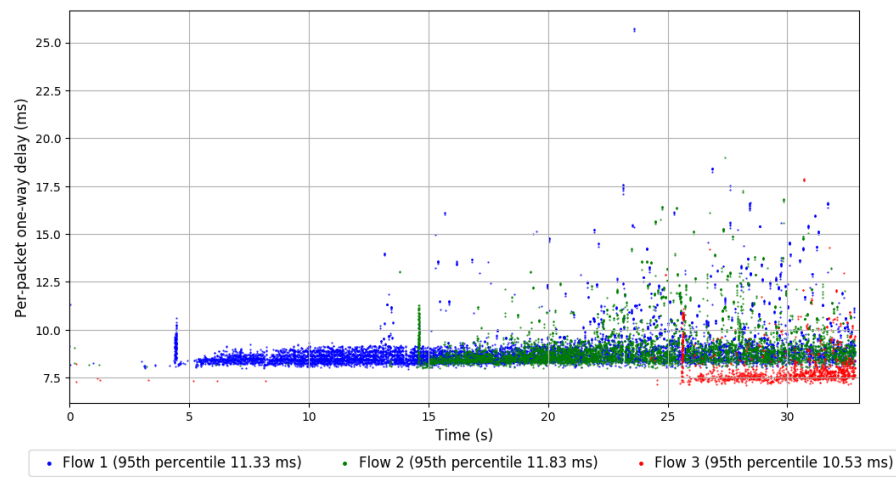
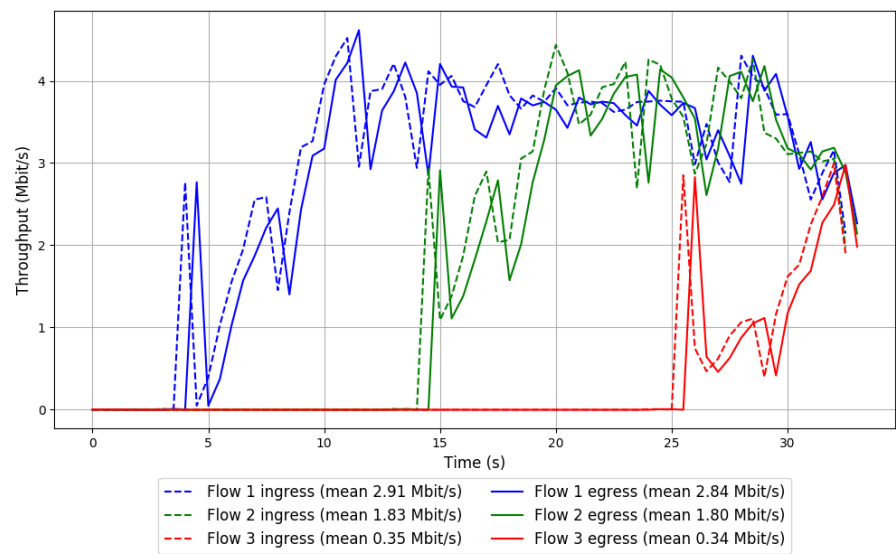


Run 2: Statistics of WebRTC media

Start at: 2018-08-22 02:52:42  
End at: 2018-08-22 02:53:12  
Local clock offset: 1.158 ms  
Remote clock offset: -60.125 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.96 Mbit/s  
95th percentile per-packet one-way delay: 11.470 ms  
Loss rate: 2.15%  
-- Flow 1:  
Average throughput: 2.84 Mbit/s  
95th percentile per-packet one-way delay: 11.333 ms  
Loss rate: 2.34%  
-- Flow 2:  
Average throughput: 1.80 Mbit/s  
95th percentile per-packet one-way delay: 11.830 ms  
Loss rate: 1.99%  
-- Flow 3:  
Average throughput: 0.34 Mbit/s  
95th percentile per-packet one-way delay: 10.533 ms  
Loss rate: 1.40%

Run 2: Report of WebRTC media — Data Link

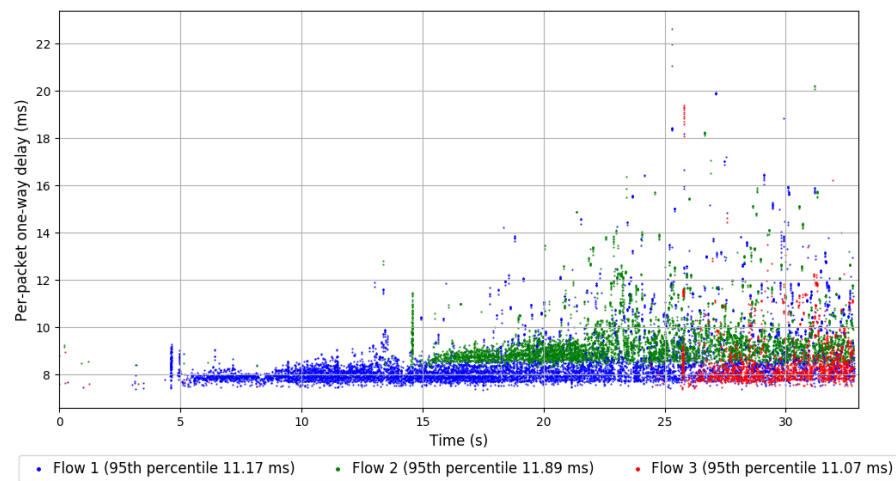
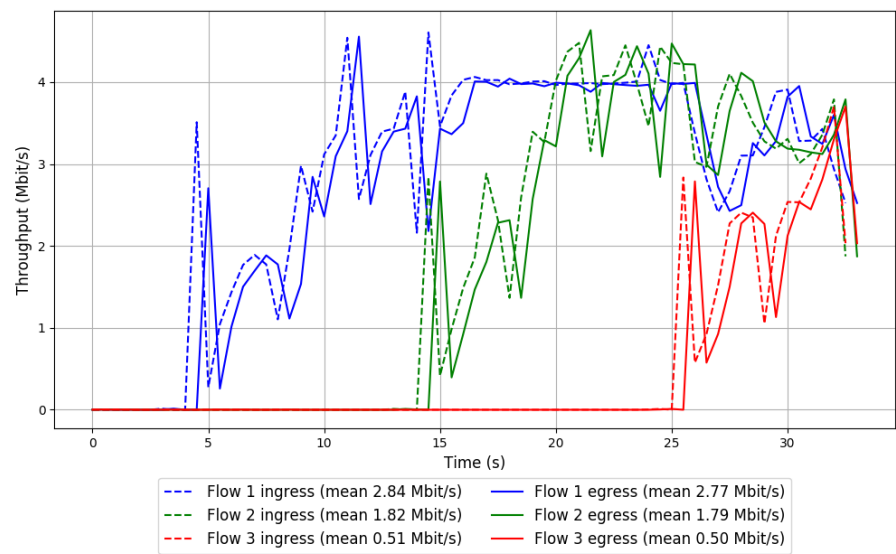


Run 3: Statistics of WebRTC media

Start at: 2018-08-22 03:12:09  
End at: 2018-08-22 03:12:39  
Local clock offset: -0.086 ms  
Remote clock offset: -62.653 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 5.05 Mbit/s  
95th percentile per-packet one-way delay: 11.448 ms  
Loss rate: 1.77%  
-- Flow 1:  
Average throughput: 2.77 Mbit/s  
95th percentile per-packet one-way delay: 11.169 ms  
Loss rate: 2.39%  
-- Flow 2:  
Average throughput: 1.79 Mbit/s  
95th percentile per-packet one-way delay: 11.894 ms  
Loss rate: 1.23%  
-- Flow 3:  
Average throughput: 0.50 Mbit/s  
95th percentile per-packet one-way delay: 11.073 ms  
Loss rate: 0.21%

Run 3: Report of WebRTC media — Data Link



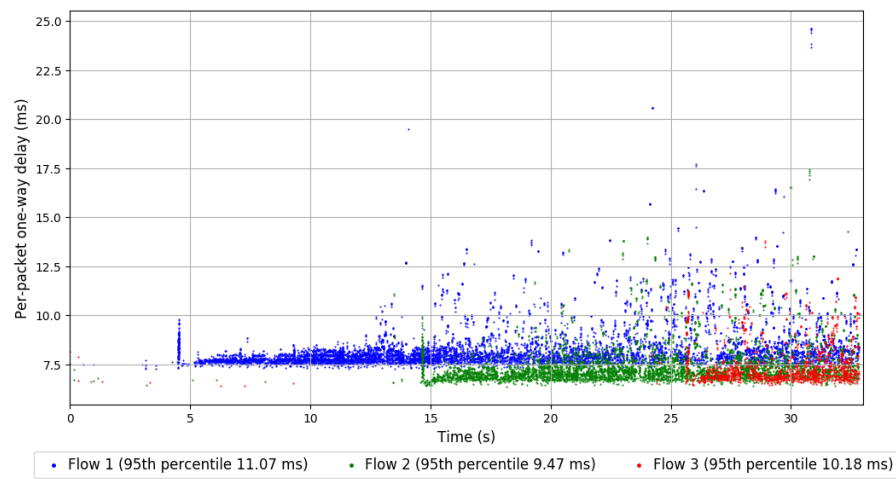
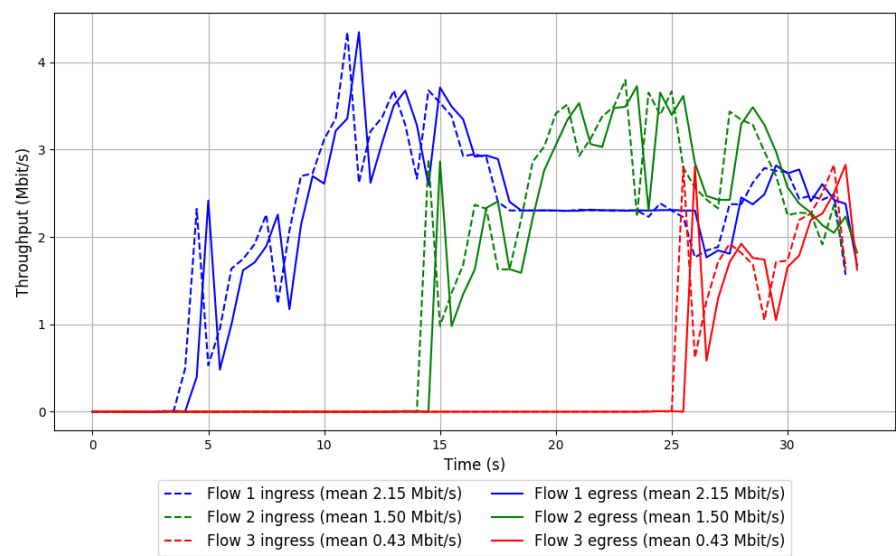
Run 4: Statistics of WebRTC media

Start at: 2018-08-22 03:31:54  
End at: 2018-08-22 03:32:24  
Local clock offset: 0.037 ms  
Remote clock offset: -63.534 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.07 Mbit/s  
95th percentile per-packet one-way delay: 10.492 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 2.15 Mbit/s  
95th percentile per-packet one-way delay: 11.068 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 9.467 ms  
Loss rate: 0.07%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 10.183 ms  
Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link

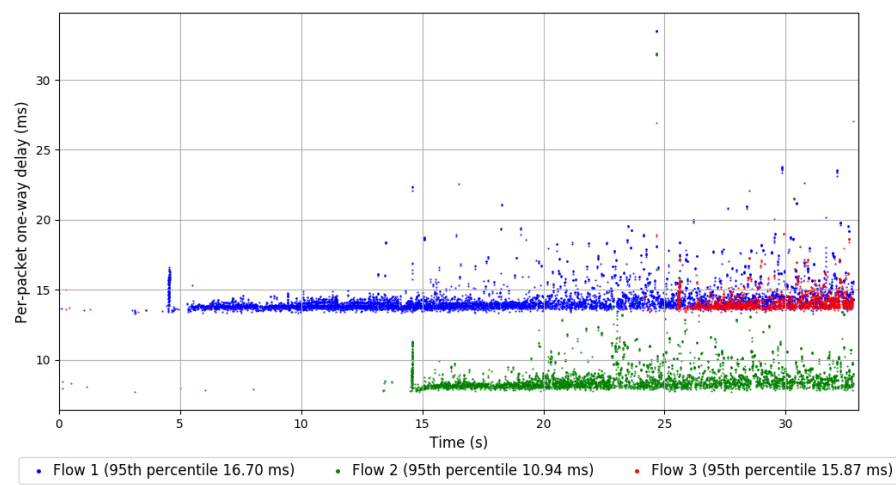
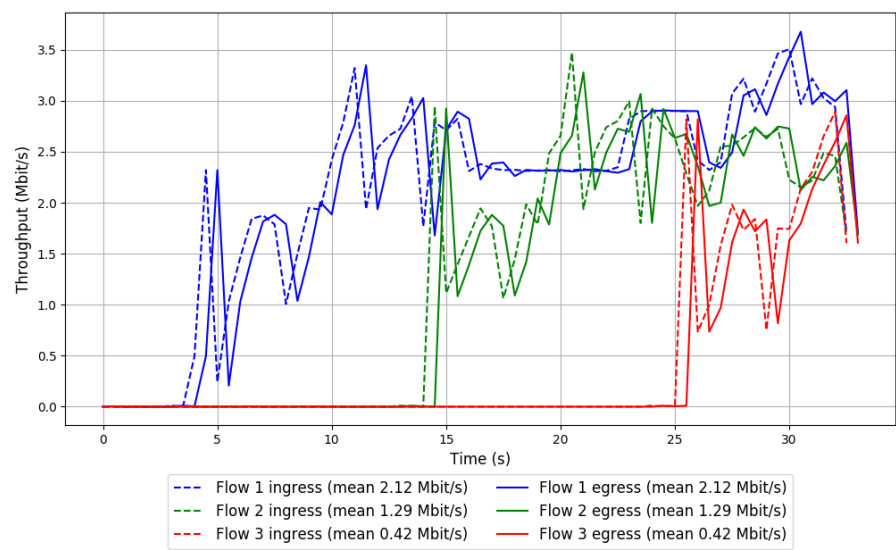


Run 5: Statistics of WebRTC media

Start at: 2018-08-22 03:51:42  
End at: 2018-08-22 03:52:12  
Local clock offset: 2.262 ms  
Remote clock offset: -61.731 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.82 Mbit/s  
95th percentile per-packet one-way delay: 15.993 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 2.12 Mbit/s  
95th percentile per-packet one-way delay: 16.704 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 1.29 Mbit/s  
95th percentile per-packet one-way delay: 10.938 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 15.868 ms  
Loss rate: 0.31%

Run 5: Report of WebRTC media — Data Link

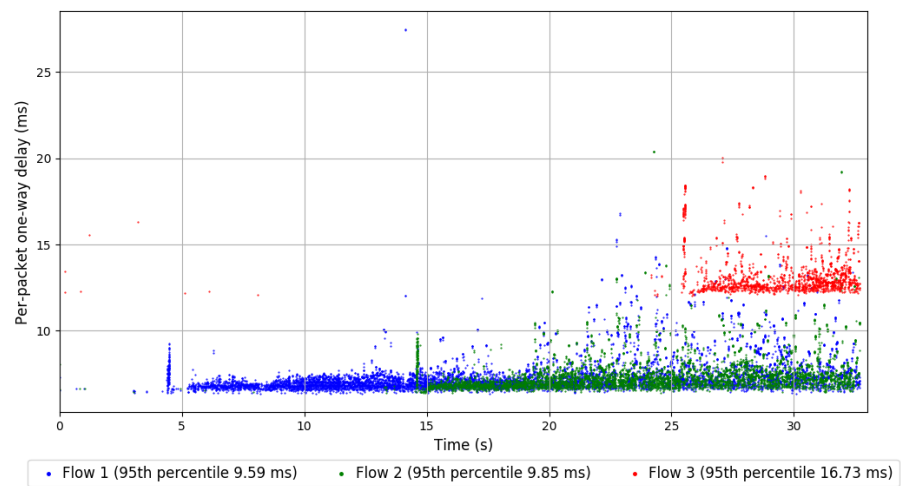
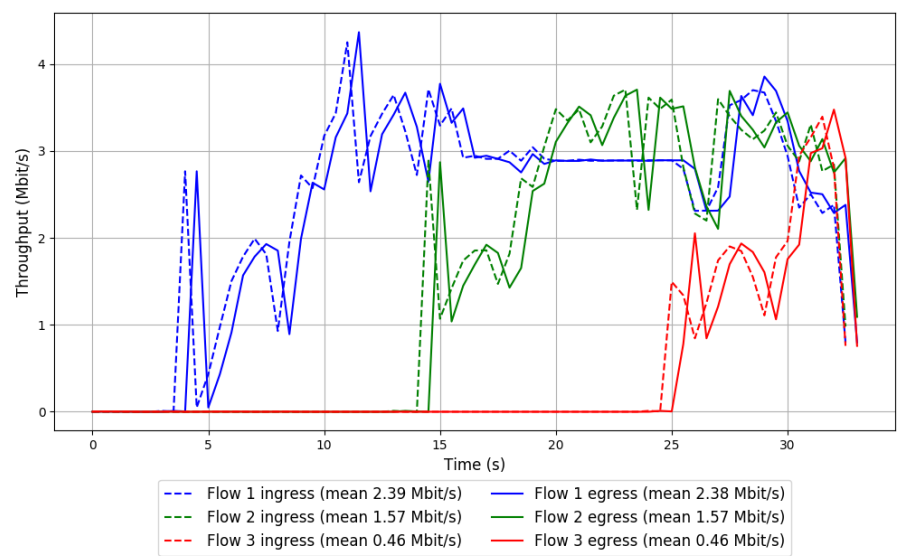


Run 6: Statistics of WebRTC media

Start at: 2018-08-22 04:11:16  
End at: 2018-08-22 04:11:46  
Local clock offset: 3.546 ms  
Remote clock offset: -62.519 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.40 Mbit/s  
95th percentile per-packet one-way delay: 12.957 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 9.588 ms  
Loss rate: 0.28%  
-- Flow 2:  
Average throughput: 1.57 Mbit/s  
95th percentile per-packet one-way delay: 9.849 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 16.731 ms  
Loss rate: 0.06%

Run 6: Report of WebRTC media — Data Link

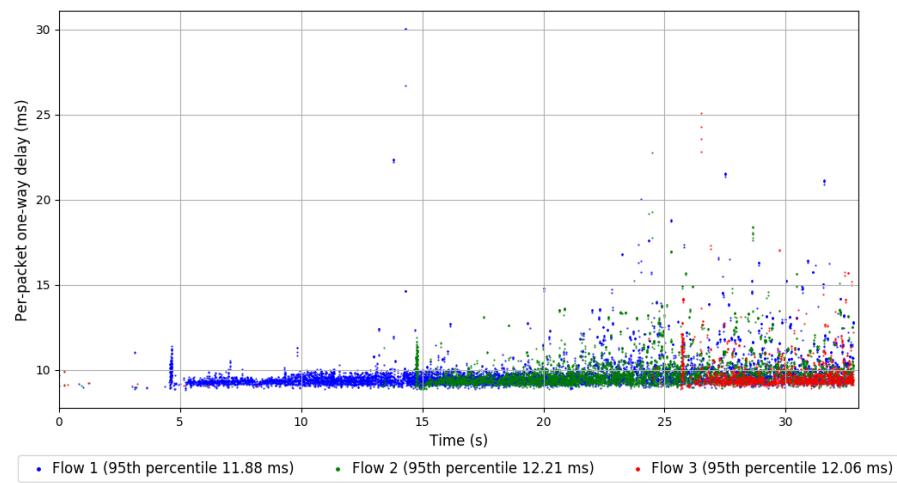
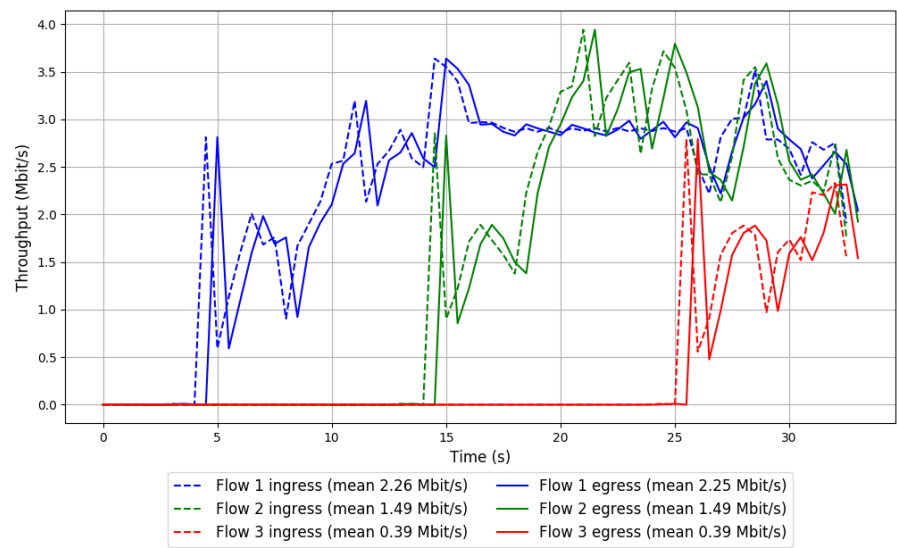


Run 7: Statistics of WebRTC media

Start at: 2018-08-22 04:30:51  
End at: 2018-08-22 04:31:21  
Local clock offset: 0.443 ms  
Remote clock offset: -63.971 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.11 Mbit/s  
95th percentile per-packet one-way delay: 12.013 ms  
Loss rate: 0.50%  
-- Flow 1:  
Average throughput: 2.25 Mbit/s  
95th percentile per-packet one-way delay: 11.877 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 1.49 Mbit/s  
95th percentile per-packet one-way delay: 12.211 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 0.39 Mbit/s  
95th percentile per-packet one-way delay: 12.065 ms  
Loss rate: 1.46%

Run 7: Report of WebRTC media — Data Link



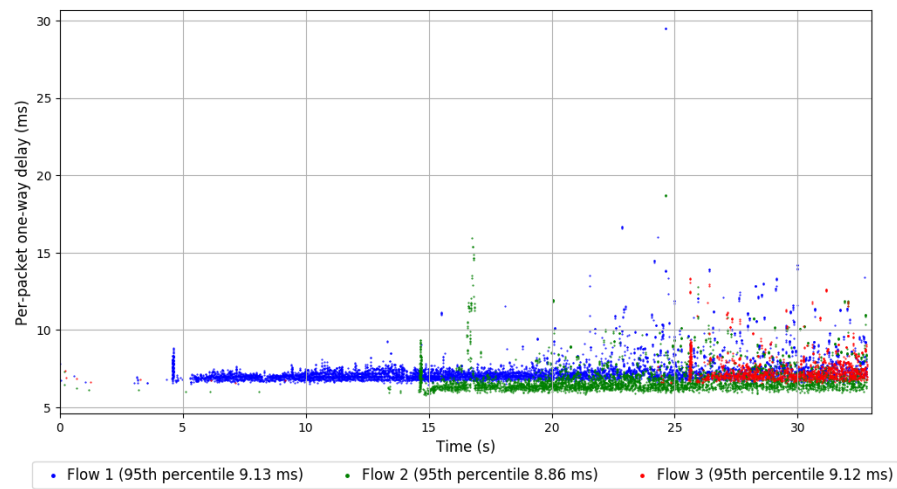
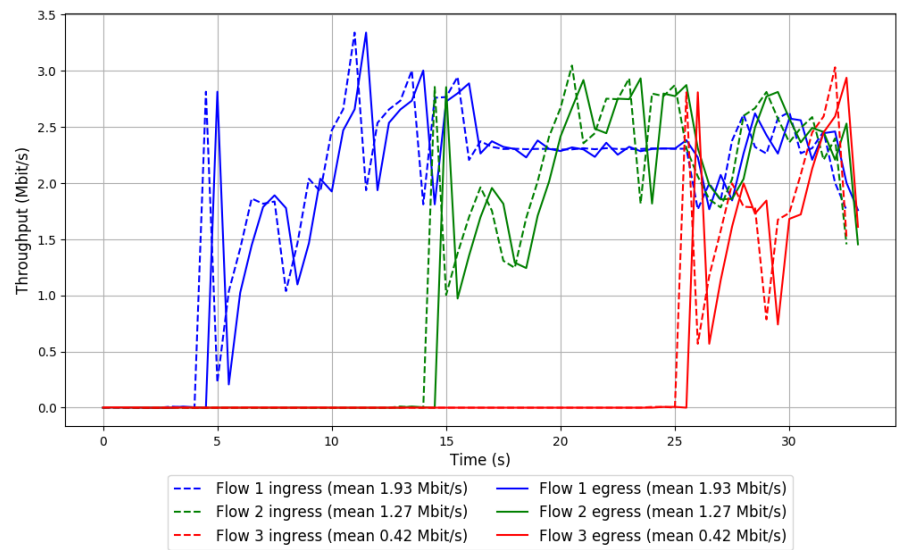
Run 8: Statistics of WebRTC media

Start at: 2018-08-22 04:50:23  
End at: 2018-08-22 04:50:53  
Local clock offset: 3.295 ms  
Remote clock offset: -63.313 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.61 Mbit/s  
95th percentile per-packet one-way delay: 9.025 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 9.134 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.27 Mbit/s  
95th percentile per-packet one-way delay: 8.855 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 9.116 ms  
Loss rate: 0.00%



Run 8: Report of WebRTC media — Data Link

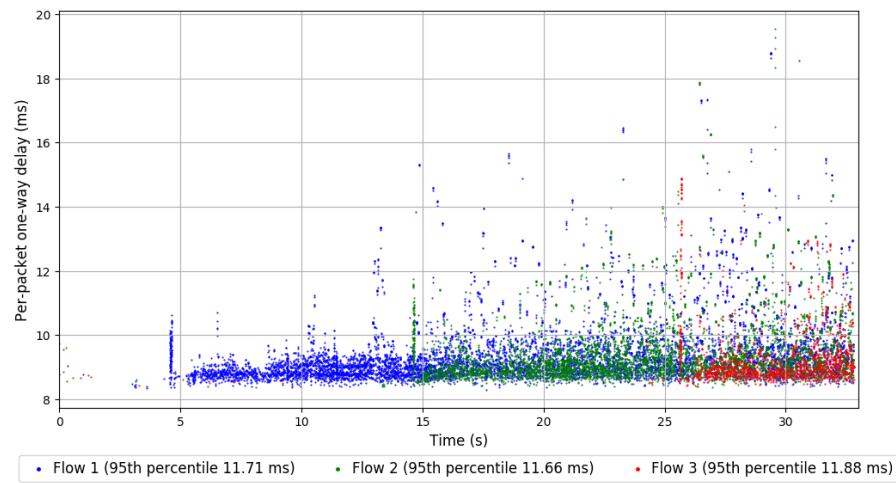
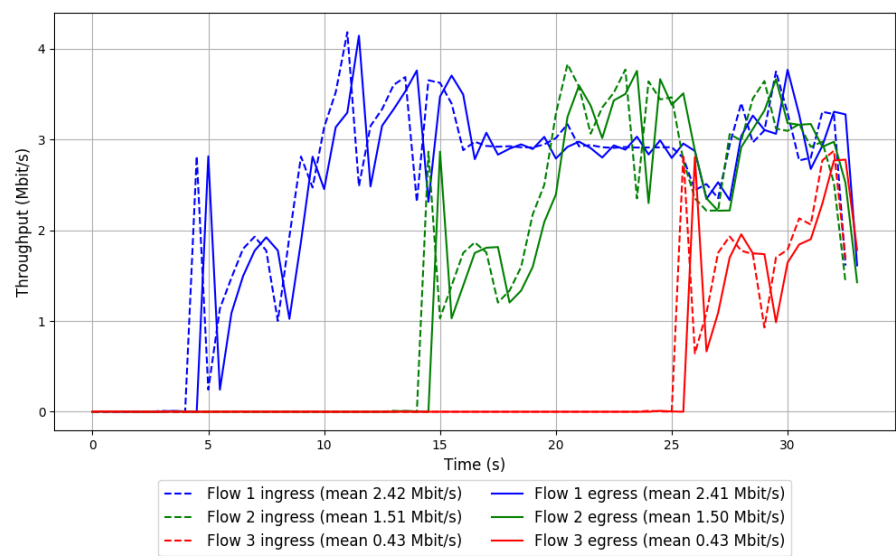


Run 9: Statistics of WebRTC media

Start at: 2018-08-22 05:09:58  
End at: 2018-08-22 05:10:28  
Local clock offset: 0.746 ms  
Remote clock offset: -63.366 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.32 Mbit/s  
95th percentile per-packet one-way delay: 11.706 ms  
Loss rate: 0.51%  
-- Flow 1:  
Average throughput: 2.41 Mbit/s  
95th percentile per-packet one-way delay: 11.715 ms  
Loss rate: 0.54%  
-- Flow 2:  
Average throughput: 1.50 Mbit/s  
95th percentile per-packet one-way delay: 11.665 ms  
Loss rate: 0.61%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 11.882 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-08-22 05:29:40  
End at: 2018-08-22 05:30:10  
Local clock offset: 1.744 ms  
Remote clock offset: -59.609 ms

# Below is generated by plot.py at 2018-08-22 06:04:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.63 Mbit/s  
95th percentile per-packet one-way delay: 17.328 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.93 Mbit/s  
95th percentile per-packet one-way delay: 9.465 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.25 Mbit/s  
95th percentile per-packet one-way delay: 18.284 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 10.229 ms  
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

