

## Pantheon Report

Generated at 2018-07-11 00:08:09 (UTC).

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

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.

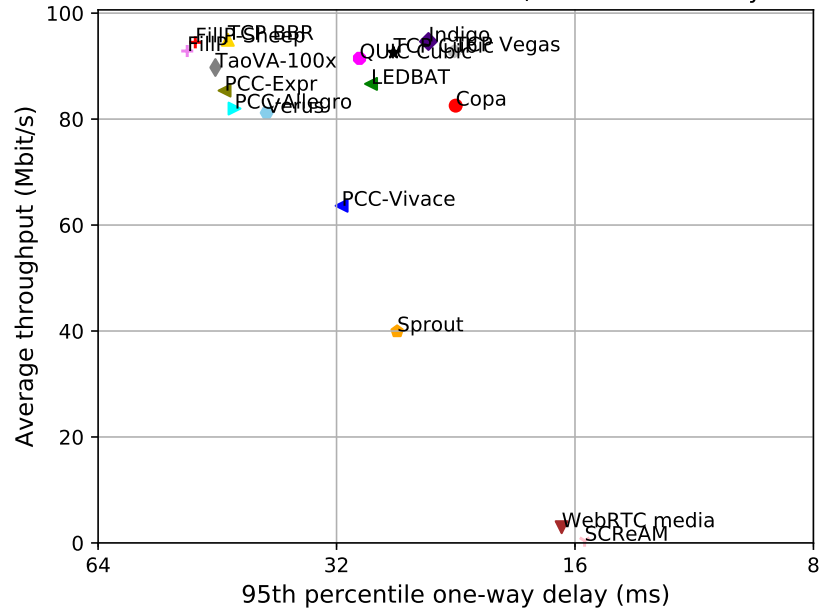
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

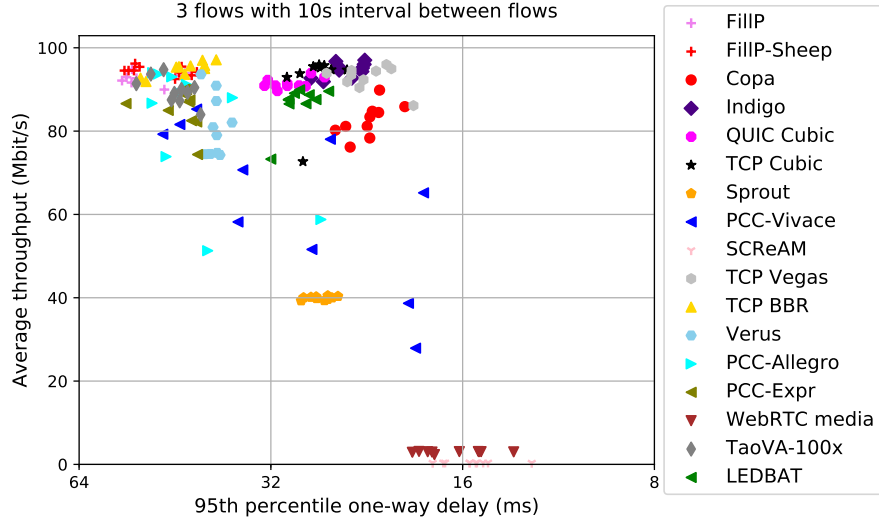
Git summary:

```
branch: master @ 9250dbeec7fb57193cdff1ba8c440b4e16ab30f0
third_party/fillp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/fillp-sheep @ 37162fe9af85249aeccac061c93e75640ef710b5
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-quick @ 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 India to AWS India 1, 10 runs of 30s each per scheme  
 3 flows with 10s interval between flows (mean of all runs by scheme)



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





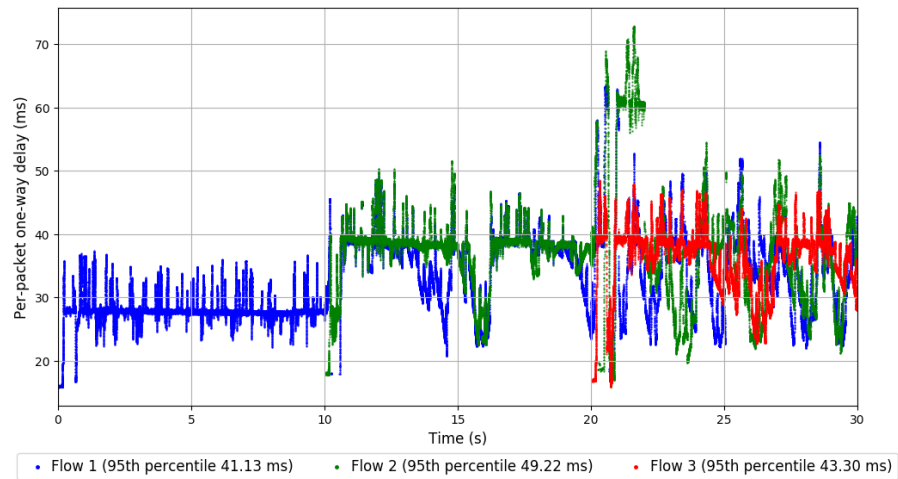
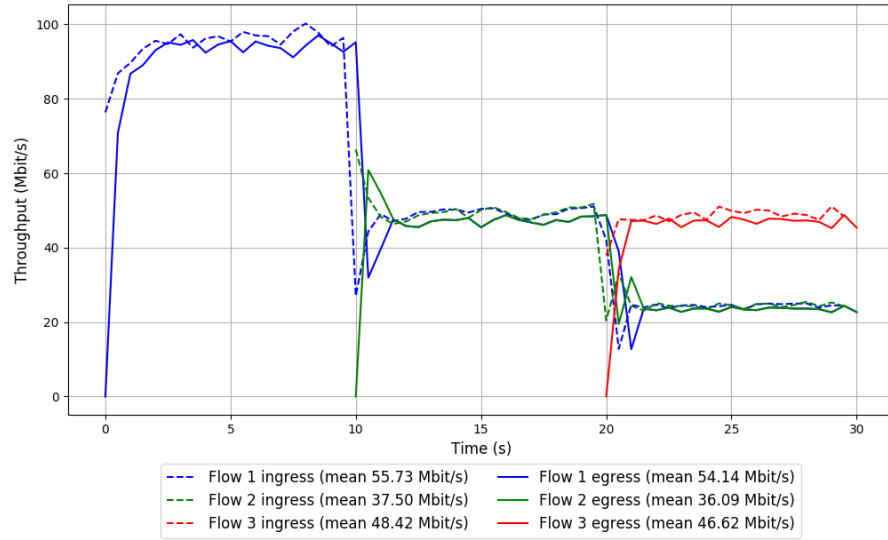
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	58.10	38.71	33.43	41.43	45.83	54.45	3.39	3.83	4.14
Copa	10	49.10	35.29	30.02	22.71	22.55	22.62	0.06	0.12	0.29
TCP Cubic	10	56.53	38.72	30.80	26.82	28.04	29.08	0.07	0.14	0.31
FillP	10	56.79	39.25	30.11	46.29	46.62	49.71	1.69	4.11	4.31
FillP-Sheep	10	56.86	37.18	38.93	47.22	50.31	42.04	2.33	5.22	4.66
Indigo	10	58.00	41.29	28.05	23.87	24.24	27.66	0.06	0.13	0.37
LEDBAT	10	50.95	37.89	31.57	28.44	30.11	30.60	0.07	0.16	0.35
PCC-Allegro	10	49.86	37.34	22.50	39.80	40.52	35.49	3.29	1.91	0.84
PCC-Expr	10	53.52	35.06	25.90	40.16	44.36	41.44	0.67	1.07	0.55
QUIC Cubic	10	57.05	36.67	30.45	28.97	31.80	37.99	0.10	0.20	0.48
SCReAM	10	0.21	0.19	0.22	15.56	15.57	15.56	0.12	0.18	0.35
Sprout	10	20.29	19.92	19.54	25.96	27.19	28.51	0.12	0.12	0.33
TaoVA-100x	10	53.51	39.31	30.25	42.70	45.98	47.48	0.34	0.84	1.66
TCP Vegas	10	57.16	39.58	28.06	22.24	22.42	26.16	0.06	0.12	0.30
Verus	10	47.46	37.10	27.10	38.45	39.28	46.35	0.12	0.17	0.49
PCC-Vivace	10	42.32	21.89	20.48	29.78	29.13	24.18	0.19	0.67	0.38
WebRTC media	10	1.62	0.91	0.45	16.55	16.58	16.95	0.03	0.17	0.25

Run 1: Statistics of TCP BBR

Start at: 2018-07-10 20:26:46  
End at: 2018-07-10 20:27:16  
Local clock offset: -0.034 ms  
Remote clock offset: -6.123 ms

# Below is generated by plot.py at 2018-07-10 23:44:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.64 Mbit/s  
95th percentile per-packet one-way delay: 43.681 ms  
Loss rate: 3.36%  
-- Flow 1:  
Average throughput: 54.14 Mbit/s  
95th percentile per-packet one-way delay: 41.126 ms  
Loss rate: 2.94%  
-- Flow 2:  
Average throughput: 36.09 Mbit/s  
95th percentile per-packet one-way delay: 49.221 ms  
Loss rate: 3.89%  
-- Flow 3:  
Average throughput: 46.62 Mbit/s  
95th percentile per-packet one-way delay: 43.301 ms  
Loss rate: 3.97%

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

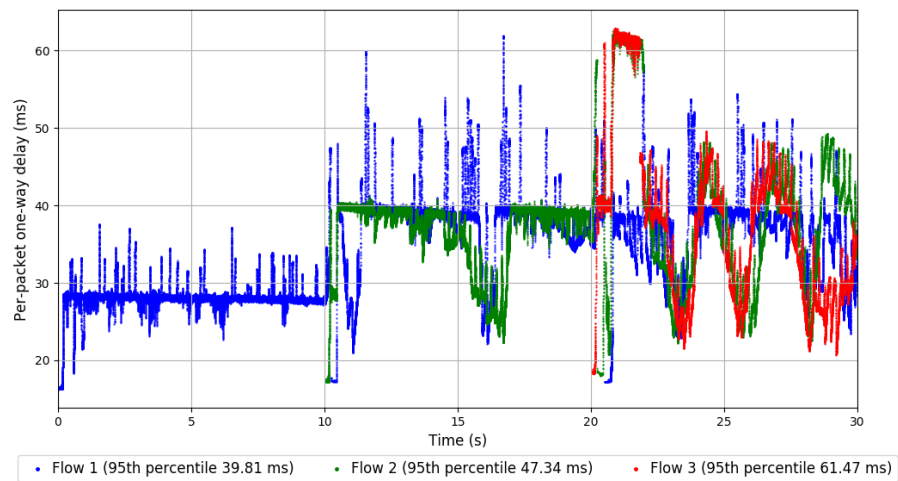
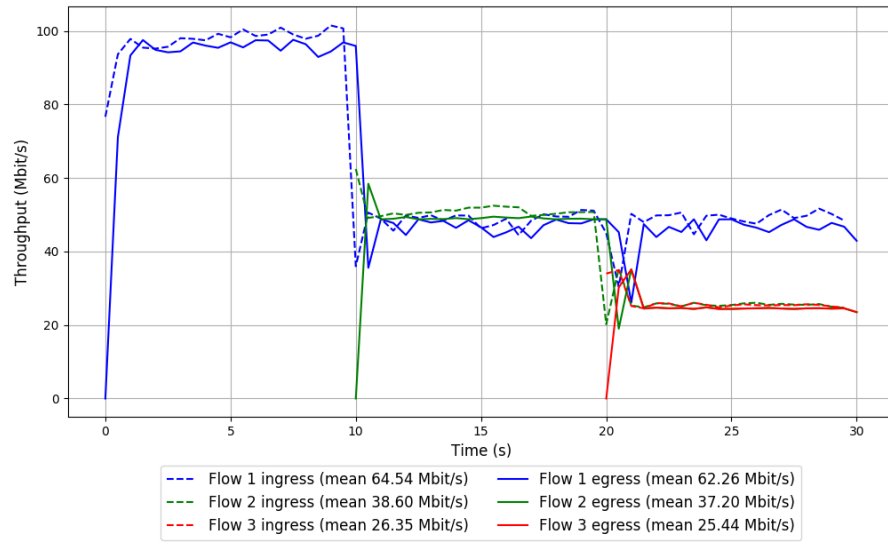


Run 2: Statistics of TCP BBR

Start at: 2018-07-10 20:47:22  
End at: 2018-07-10 20:47:52  
Local clock offset: 1.865 ms  
Remote clock offset: -5.649 ms

# Below is generated by plot.py at 2018-07-10 23:44:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.47 Mbit/s  
95th percentile per-packet one-way delay: 44.609 ms  
Loss rate: 3.66%  
-- Flow 1:  
Average throughput: 62.26 Mbit/s  
95th percentile per-packet one-way delay: 39.810 ms  
Loss rate: 3.62%  
-- Flow 2:  
Average throughput: 37.20 Mbit/s  
95th percentile per-packet one-way delay: 47.341 ms  
Loss rate: 3.75%  
-- Flow 3:  
Average throughput: 25.44 Mbit/s  
95th percentile per-packet one-way delay: 61.471 ms  
Loss rate: 3.70%

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

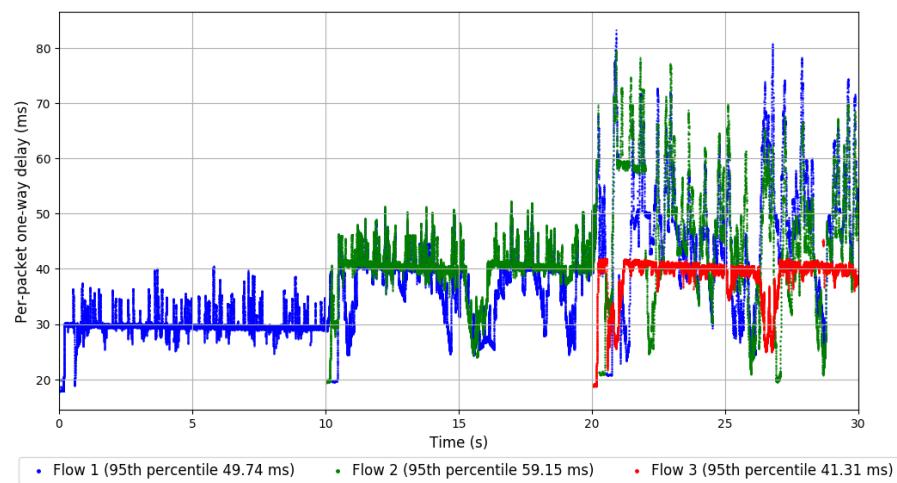
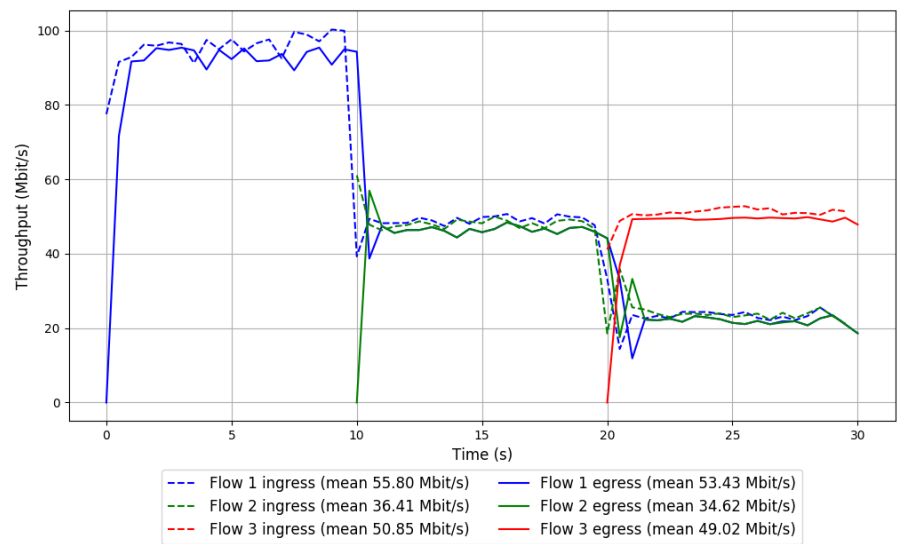


Run 3: Statistics of TCP BBR

Start at: 2018-07-10 21:08:02  
End at: 2018-07-10 21:08:32  
Local clock offset: 2.641 ms  
Remote clock offset: -7.478 ms

# Below is generated by plot.py at 2018-07-10 23:44:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.75 Mbit/s  
95th percentile per-packet one-way delay: 51.257 ms  
Loss rate: 4.44%  
-- Flow 1:  
Average throughput: 53.43 Mbit/s  
95th percentile per-packet one-way delay: 49.745 ms  
Loss rate: 4.33%  
-- Flow 2:  
Average throughput: 34.62 Mbit/s  
95th percentile per-packet one-way delay: 59.148 ms  
Loss rate: 5.05%  
-- Flow 3:  
Average throughput: 49.02 Mbit/s  
95th percentile per-packet one-way delay: 41.312 ms  
Loss rate: 3.94%

Run 3: Report of TCP BBR — Data Link



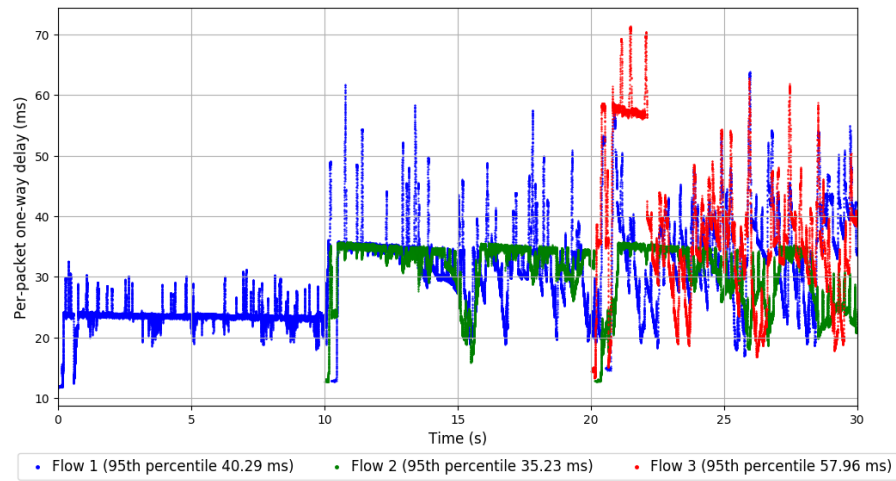
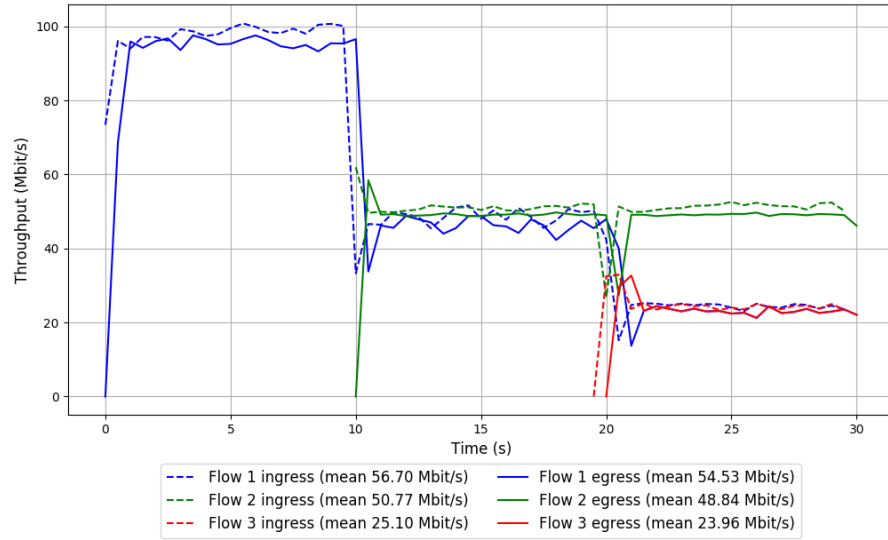
Run 4: Statistics of TCP BBR

Start at: 2018-07-10 21:28:34  
End at: 2018-07-10 21:29:04  
Local clock offset: -3.14 ms  
Remote clock offset: -5.718 ms

# Below is generated by plot.py at 2018-07-10 23:44:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.03 Mbit/s  
95th percentile per-packet one-way delay: 40.654 ms  
Loss rate: 3.98%  
-- Flow 1:  
Average throughput: 54.53 Mbit/s  
95th percentile per-packet one-way delay: 40.286 ms  
Loss rate: 3.91%  
-- Flow 2:  
Average throughput: 48.84 Mbit/s  
95th percentile per-packet one-way delay: 35.232 ms  
Loss rate: 3.92%  
-- Flow 3:  
Average throughput: 23.96 Mbit/s  
95th percentile per-packet one-way delay: 57.957 ms  
Loss rate: 4.78%



# Run 4: Report of TCP BBR — Data Link

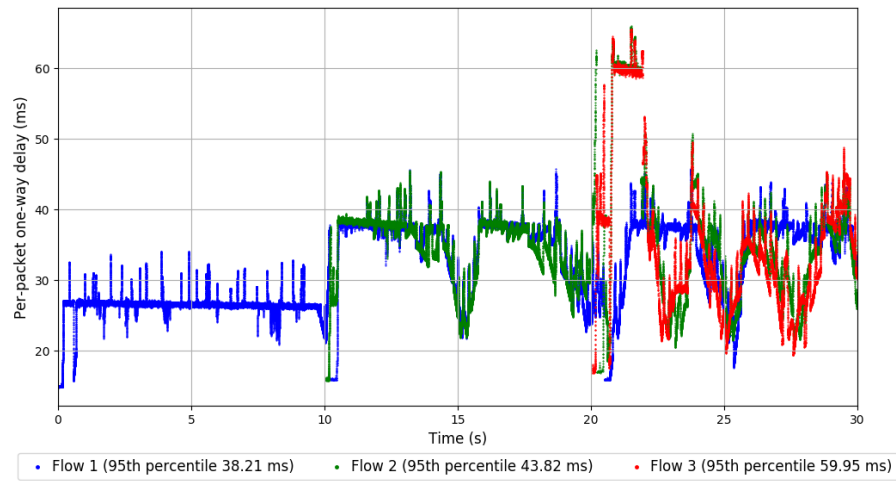
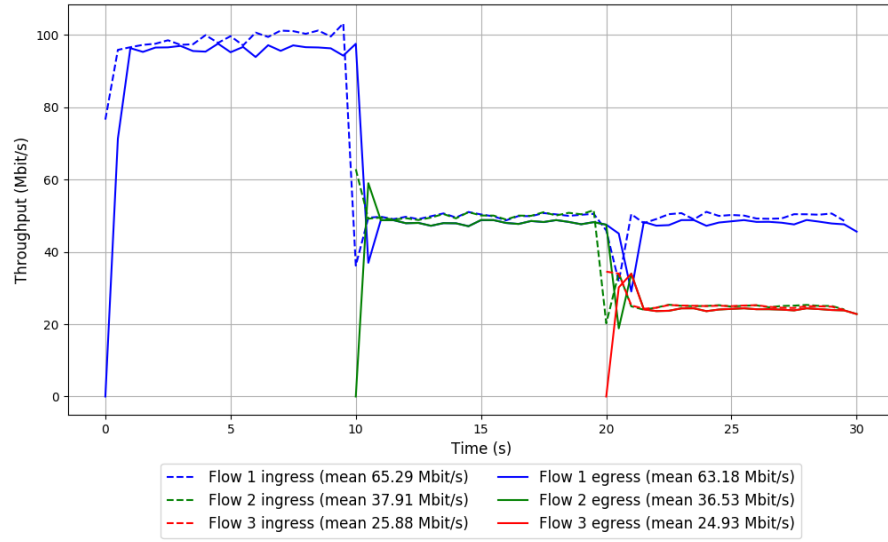


Run 5: Statistics of TCP BBR

Start at: 2018-07-10 21:49:02  
End at: 2018-07-10 21:49:32  
Local clock offset: -0.046 ms  
Remote clock offset: -4.874 ms

# Below is generated by plot.py at 2018-07-10 23:44:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.77 Mbit/s  
95th percentile per-packet one-way delay: 40.658 ms  
Loss rate: 3.49%  
-- Flow 1:  
Average throughput: 63.18 Mbit/s  
95th percentile per-packet one-way delay: 38.213 ms  
Loss rate: 3.32%  
-- Flow 2:  
Average throughput: 36.53 Mbit/s  
95th percentile per-packet one-way delay: 43.822 ms  
Loss rate: 3.77%  
-- Flow 3:  
Average throughput: 24.93 Mbit/s  
95th percentile per-packet one-way delay: 59.952 ms  
Loss rate: 3.93%

# Run 5: Report of TCP BBR — Data Link

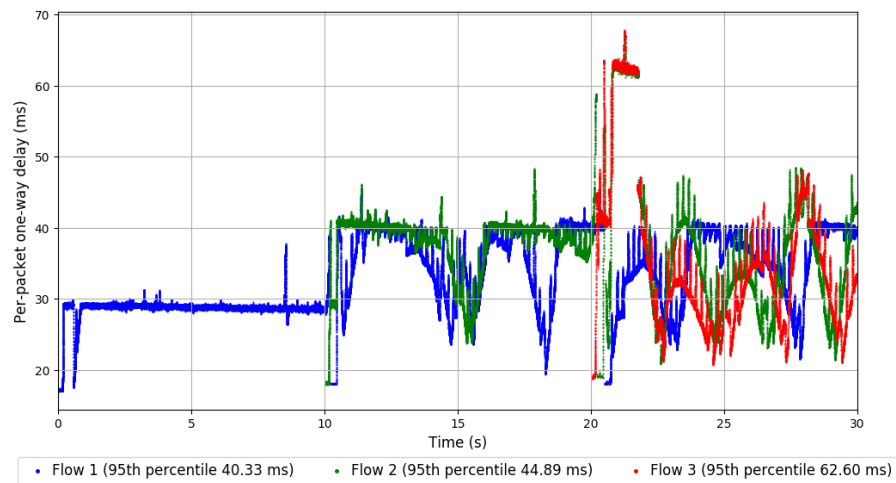
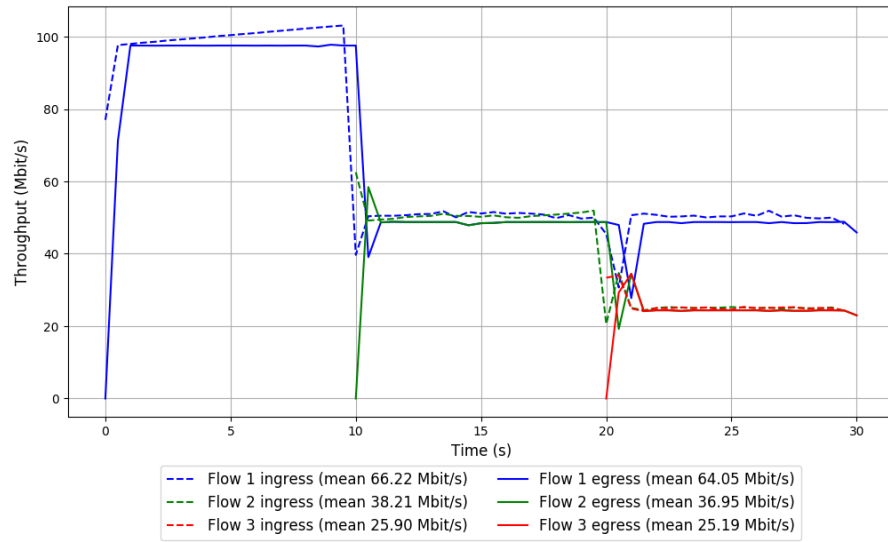


Run 6: Statistics of TCP BBR

Start at: 2018-07-10 22:09:21  
End at: 2018-07-10 22:09:51  
Local clock offset: 1.131 ms  
Remote clock offset: -4.615 ms

# Below is generated by plot.py at 2018-07-10 23:44:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.01 Mbit/s  
95th percentile per-packet one-way delay: 40.971 ms  
Loss rate: 3.36%  
-- Flow 1:  
Average throughput: 64.05 Mbit/s  
95th percentile per-packet one-way delay: 40.329 ms  
Loss rate: 3.39%  
-- Flow 2:  
Average throughput: 36.95 Mbit/s  
95th percentile per-packet one-way delay: 44.892 ms  
Loss rate: 3.43%  
-- Flow 3:  
Average throughput: 25.19 Mbit/s  
95th percentile per-packet one-way delay: 62.599 ms  
Loss rate: 2.98%

## Run 6: Report of TCP BBR — Data Link

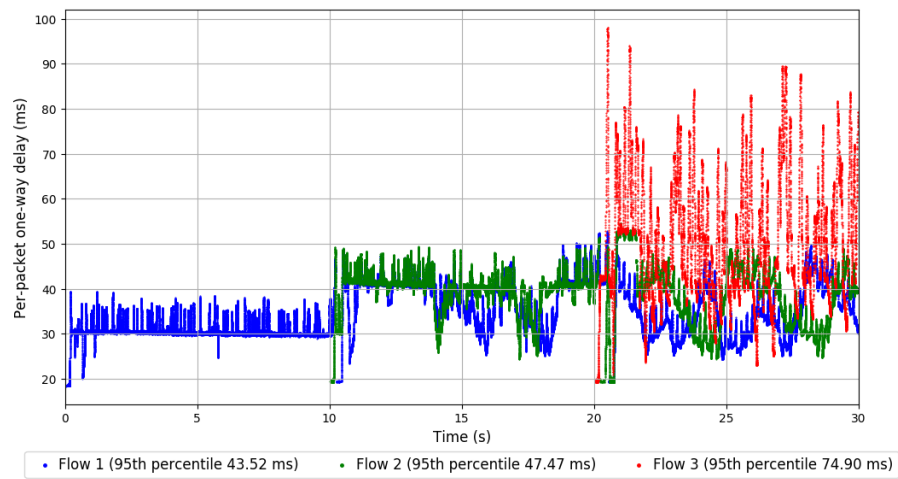
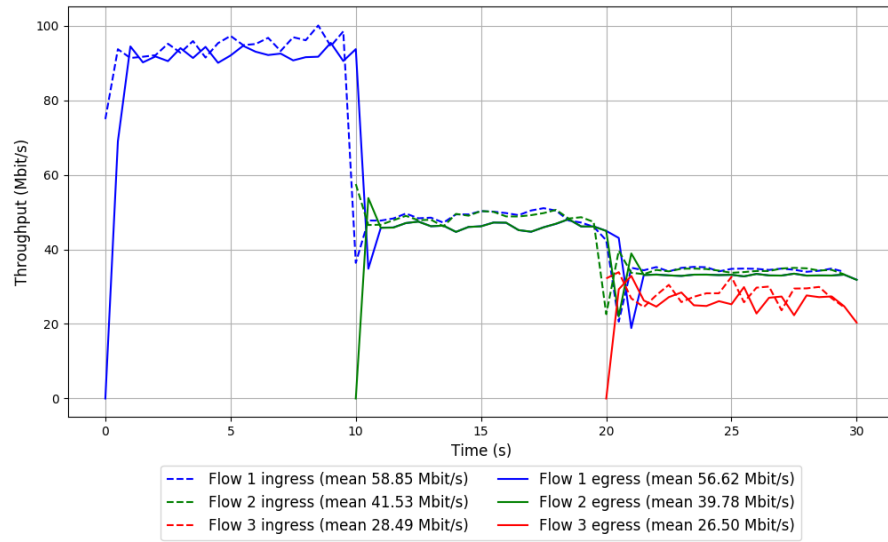


Run 7: Statistics of TCP BBR

Start at: 2018-07-10 22:29:39  
End at: 2018-07-10 22:30:09  
Local clock offset: 3.157 ms  
Remote clock offset: -5.642 ms

# Below is generated by plot.py at 2018-07-10 23:44:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.91 Mbit/s  
95th percentile per-packet one-way delay: 50.255 ms  
Loss rate: 4.32%  
-- Flow 1:  
Average throughput: 56.62 Mbit/s  
95th percentile per-packet one-way delay: 43.516 ms  
Loss rate: 3.85%  
-- Flow 2:  
Average throughput: 39.78 Mbit/s  
95th percentile per-packet one-way delay: 47.470 ms  
Loss rate: 4.34%  
-- Flow 3:  
Average throughput: 26.50 Mbit/s  
95th percentile per-packet one-way delay: 74.896 ms  
Loss rate: 7.19%

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



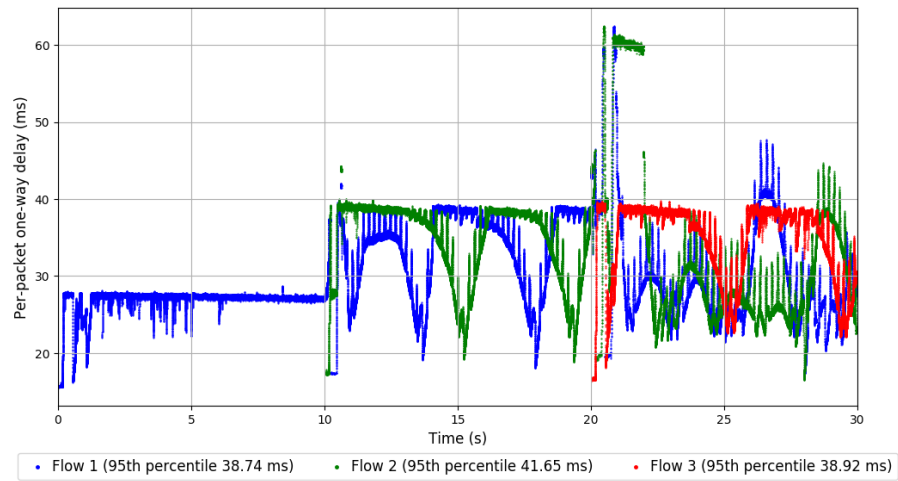
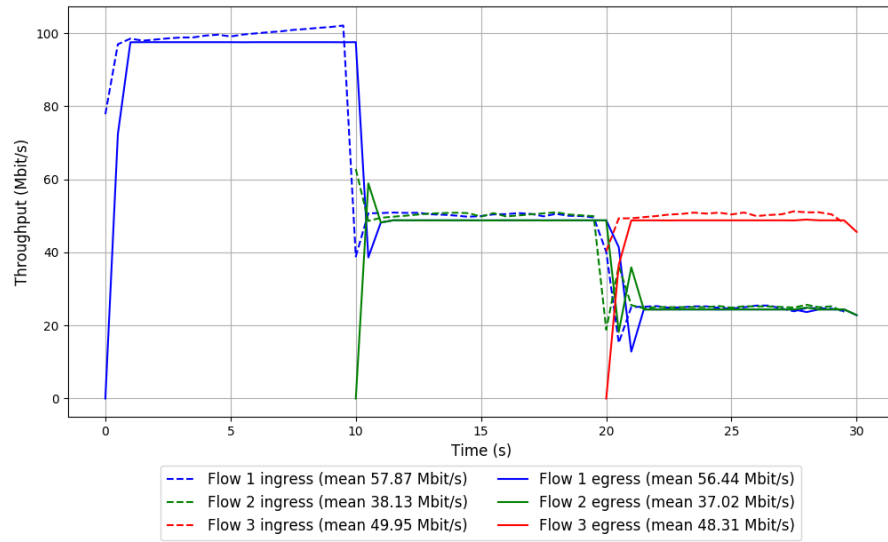
Run 8: Statistics of TCP BBR

Start at: 2018-07-10 22:50:12  
End at: 2018-07-10 22:50:42  
Local clock offset: 0.032 ms  
Remote clock offset: -7.746 ms

# Below is generated by plot.py at 2018-07-10 23:44:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.12 Mbit/s  
95th percentile per-packet one-way delay: 38.987 ms  
Loss rate: 2.84%  
-- Flow 1:  
Average throughput: 56.44 Mbit/s  
95th percentile per-packet one-way delay: 38.744 ms  
Loss rate: 2.56%  
-- Flow 2:  
Average throughput: 37.02 Mbit/s  
95th percentile per-packet one-way delay: 41.649 ms  
Loss rate: 3.02%  
-- Flow 3:  
Average throughput: 48.31 Mbit/s  
95th percentile per-packet one-way delay: 38.917 ms  
Loss rate: 3.52%



# Run 8: Report of TCP BBR — Data Link

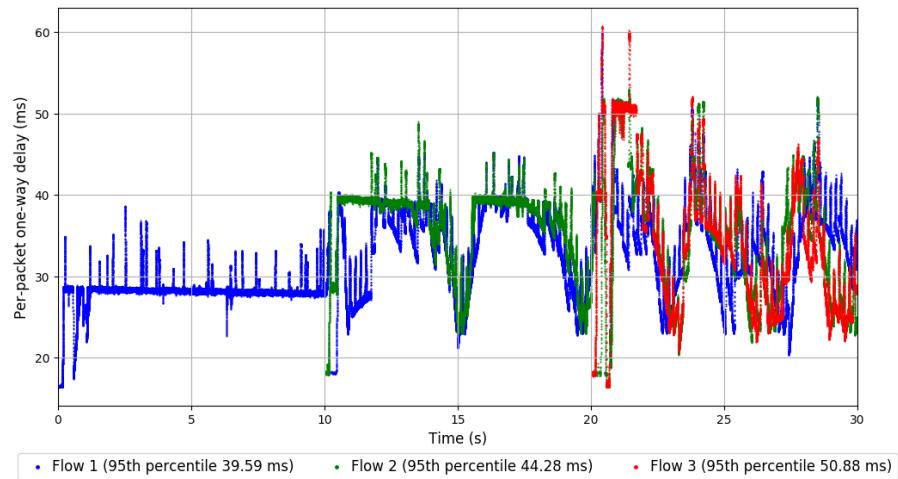
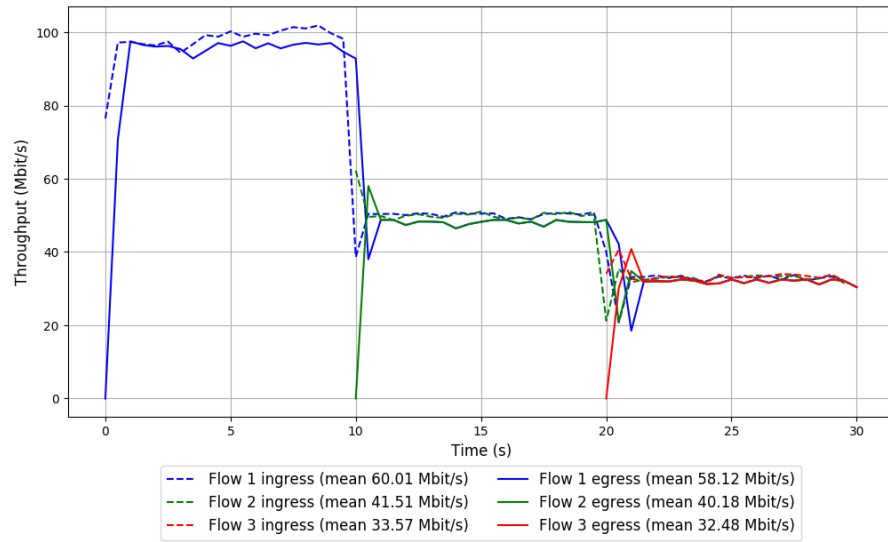


Run 9: Statistics of TCP BBR

Start at: 2018-07-10 23:10:19  
End at: 2018-07-10 23:10:49  
Local clock offset: 1.352 ms  
Remote clock offset: -11.033 ms

# Below is generated by plot.py at 2018-07-10 23:45:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.65 Mbit/s  
95th percentile per-packet one-way delay: 42.783 ms  
Loss rate: 3.30%  
-- Flow 1:  
Average throughput: 58.12 Mbit/s  
95th percentile per-packet one-way delay: 39.595 ms  
Loss rate: 3.23%  
-- Flow 2:  
Average throughput: 40.18 Mbit/s  
95th percentile per-packet one-way delay: 44.284 ms  
Loss rate: 3.35%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 50.877 ms  
Loss rate: 3.53%

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

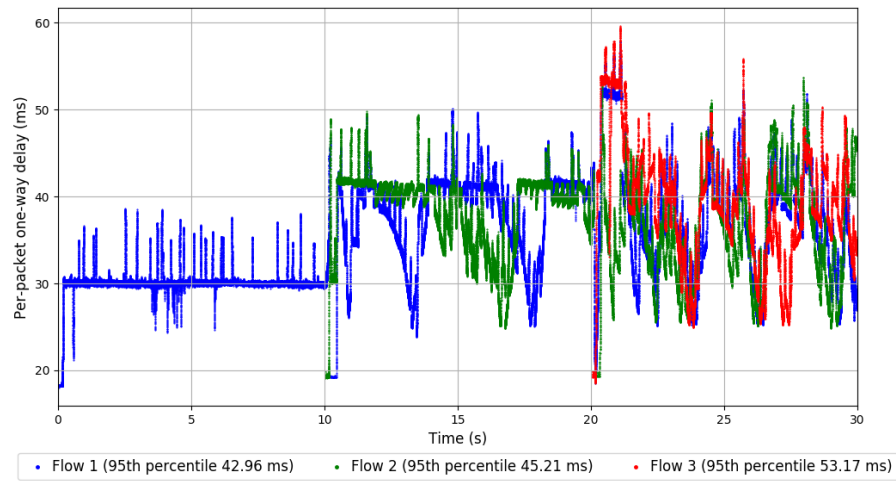
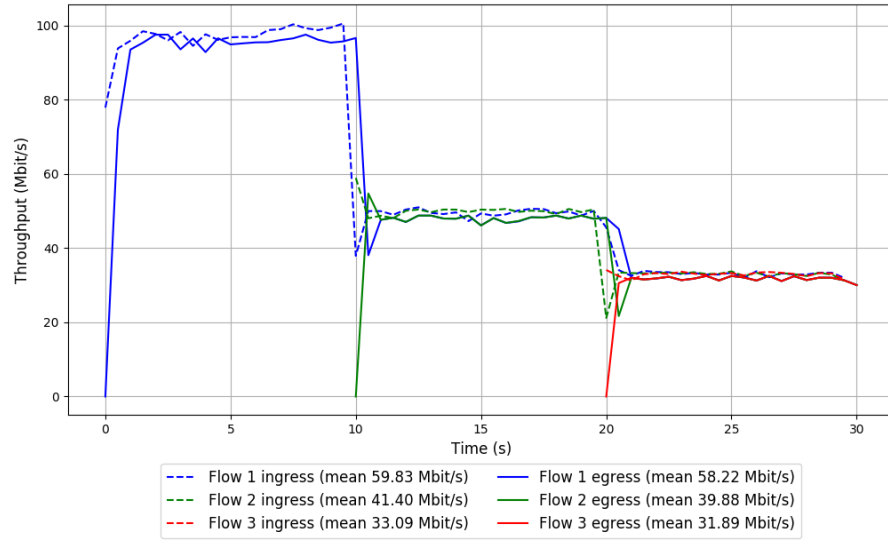


Run 10: Statistics of TCP BBR

Start at: 2018-07-10 23:30:53  
End at: 2018-07-10 23:31:23  
Local clock offset: 1.825 ms  
Remote clock offset: -13.681 ms

# Below is generated by plot.py at 2018-07-10 23:45:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.36 Mbit/s  
95th percentile per-packet one-way delay: 45.043 ms  
Loss rate: 3.18%  
-- Flow 1:  
Average throughput: 58.22 Mbit/s  
95th percentile per-packet one-way delay: 42.959 ms  
Loss rate: 2.76%  
-- Flow 2:  
Average throughput: 39.88 Mbit/s  
95th percentile per-packet one-way delay: 45.209 ms  
Loss rate: 3.80%  
-- Flow 3:  
Average throughput: 31.89 Mbit/s  
95th percentile per-packet one-way delay: 53.172 ms  
Loss rate: 3.86%

# Run 10: Report of TCP BBR — Data Link

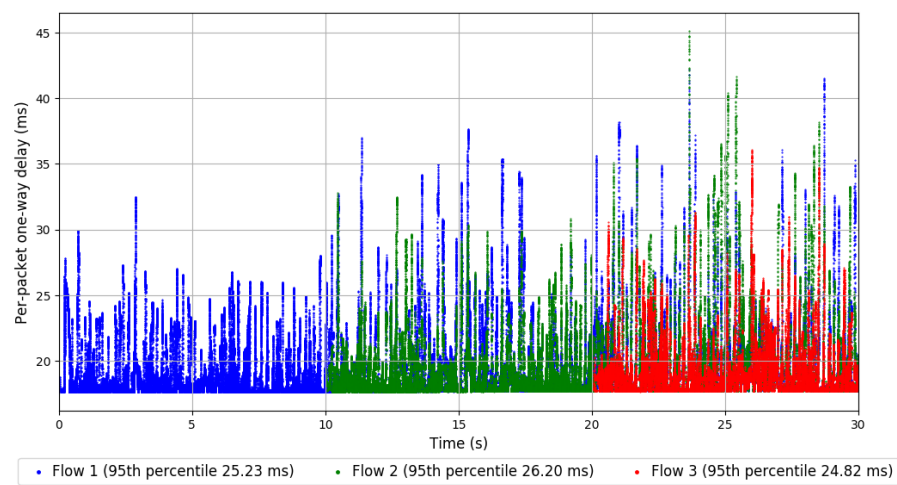
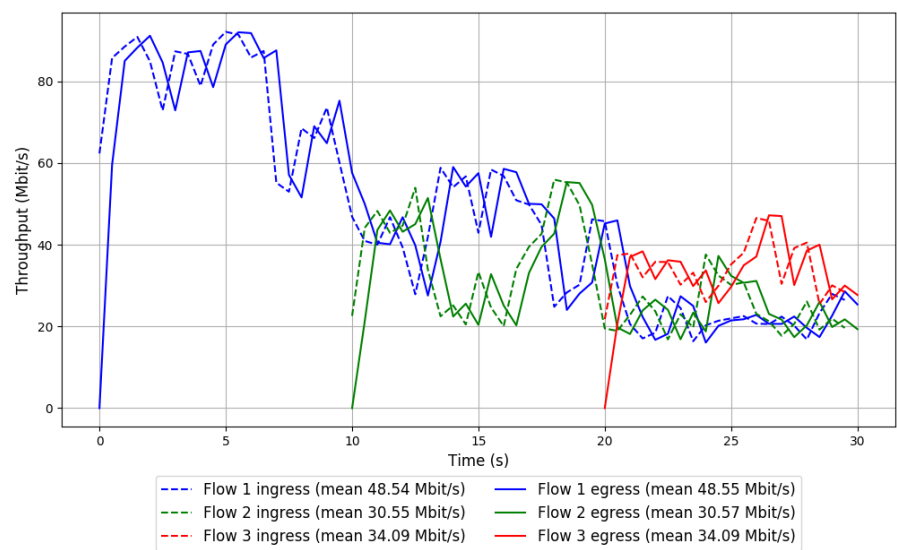


Run 1: Statistics of Copa

Start at: 2018-07-10 20:15:55  
End at: 2018-07-10 20:16:25  
Local clock offset: 2.158 ms  
Remote clock offset: -7.011 ms

# Below is generated by plot.py at 2018-07-10 23:46:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.22 Mbit/s  
95th percentile per-packet one-way delay: 25.348 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 48.55 Mbit/s  
95th percentile per-packet one-way delay: 25.228 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 30.57 Mbit/s  
95th percentile per-packet one-way delay: 26.196 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 34.09 Mbit/s  
95th percentile per-packet one-way delay: 24.816 ms  
Loss rate: 0.25%

Run 1: Report of Copa — Data Link



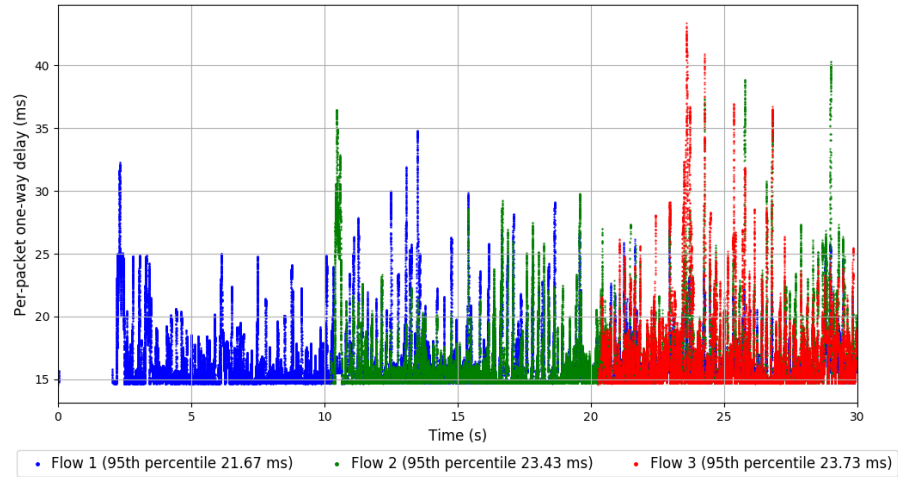
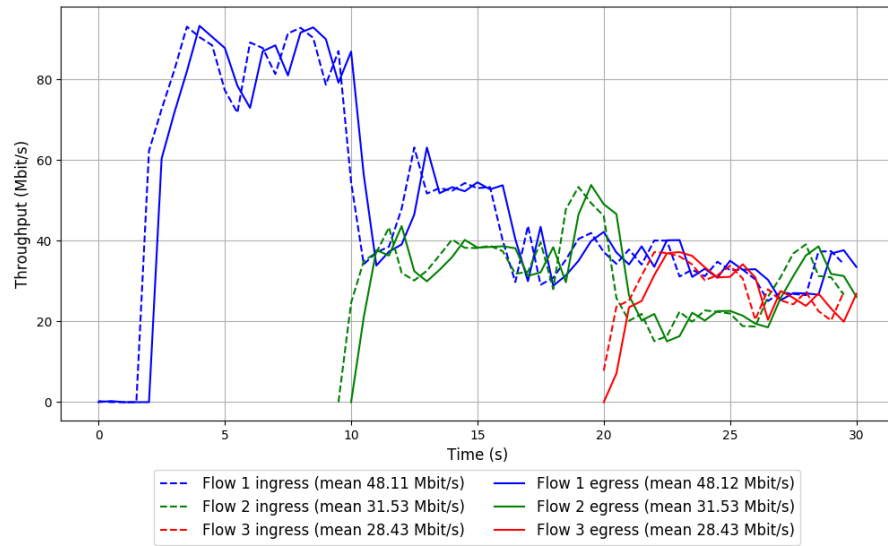
Run 2: Statistics of Copa

Start at: 2018-07-10 20:36:22  
End at: 2018-07-10 20:36:52  
Local clock offset: -0.445 ms  
Remote clock offset: -4.728 ms

# Below is generated by plot.py at 2018-07-10 23:46:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.34 Mbit/s  
95th percentile per-packet one-way delay: 22.382 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 48.12 Mbit/s  
95th percentile per-packet one-way delay: 21.674 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 31.53 Mbit/s  
95th percentile per-packet one-way delay: 23.426 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 28.43 Mbit/s  
95th percentile per-packet one-way delay: 23.732 ms  
Loss rate: 0.25%



## Run 2: Report of Copa — Data Link

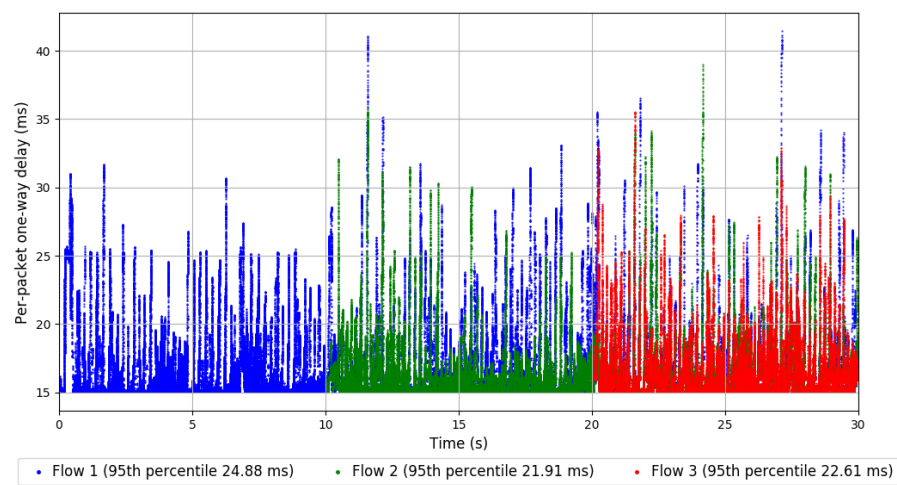
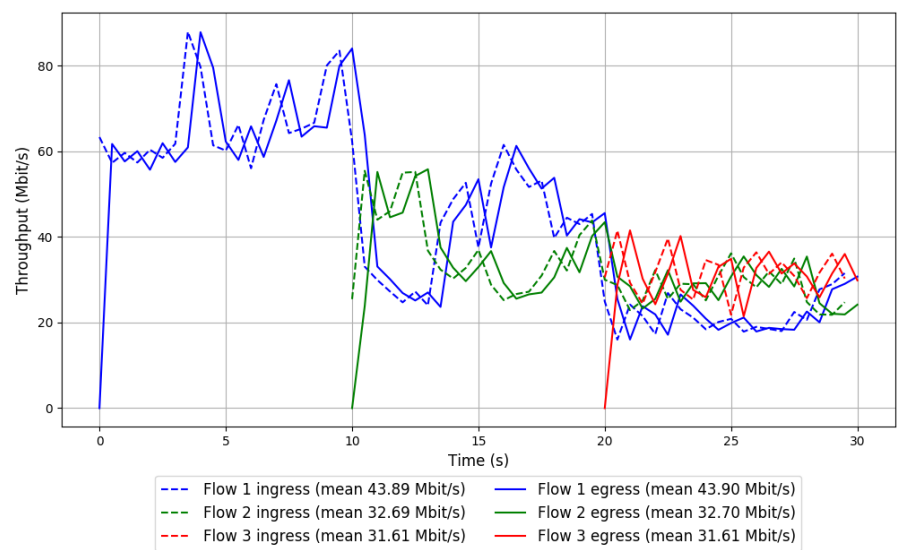


Run 3: Statistics of Copa

Start at: 2018-07-10 20:57:11  
End at: 2018-07-10 20:57:41  
Local clock offset: -0.126 ms  
Remote clock offset: -7.154 ms

# Below is generated by plot.py at 2018-07-10 23:46:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 76.16 Mbit/s  
95th percentile per-packet one-way delay: 24.026 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 43.90 Mbit/s  
95th percentile per-packet one-way delay: 24.883 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 32.70 Mbit/s  
95th percentile per-packet one-way delay: 21.909 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 31.61 Mbit/s  
95th percentile per-packet one-way delay: 22.606 ms  
Loss rate: 0.24%

Run 3: Report of Copa — Data Link

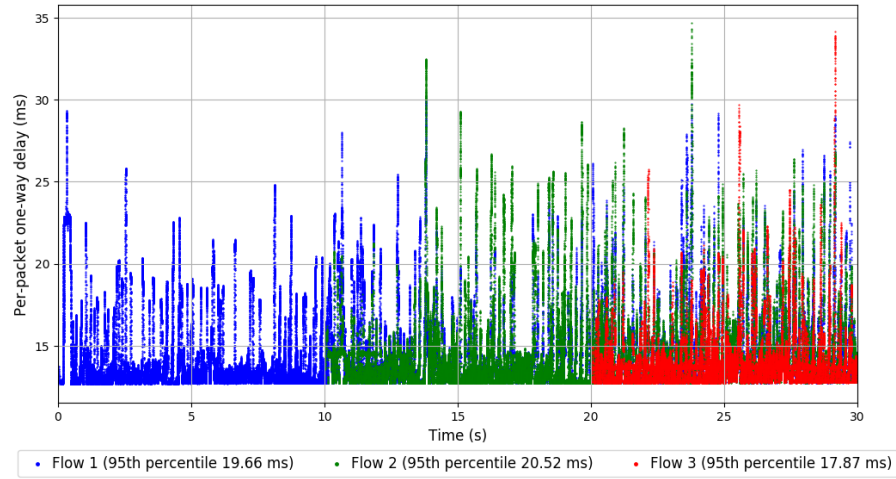
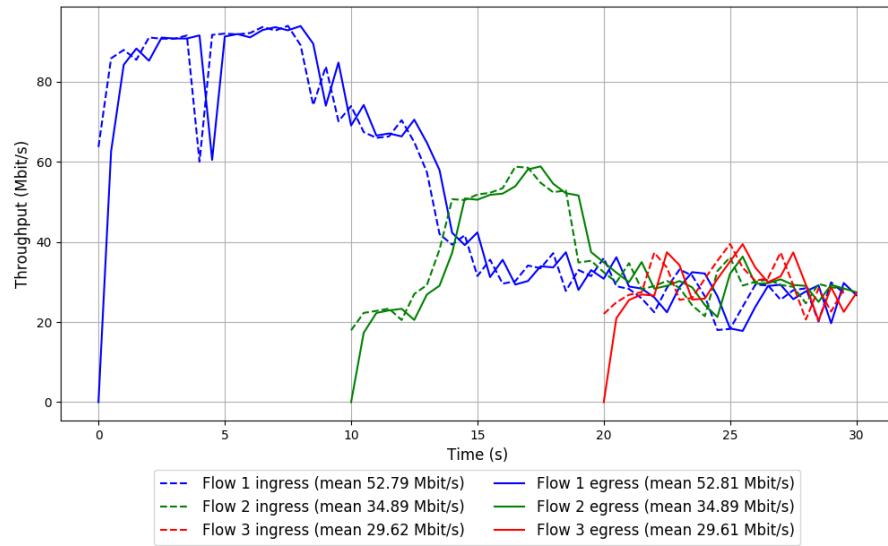


Run 4: Statistics of Copa

Start at: 2018-07-10 21:17:38  
End at: 2018-07-10 21:18:08  
Local clock offset: -2.874 ms  
Remote clock offset: -7.149 ms

# Below is generated by plot.py at 2018-07-10 23:46:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.88 Mbit/s  
95th percentile per-packet one-way delay: 19.720 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 52.81 Mbit/s  
95th percentile per-packet one-way delay: 19.657 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 34.89 Mbit/s  
95th percentile per-packet one-way delay: 20.523 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 29.61 Mbit/s  
95th percentile per-packet one-way delay: 17.869 ms  
Loss rate: 0.29%

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

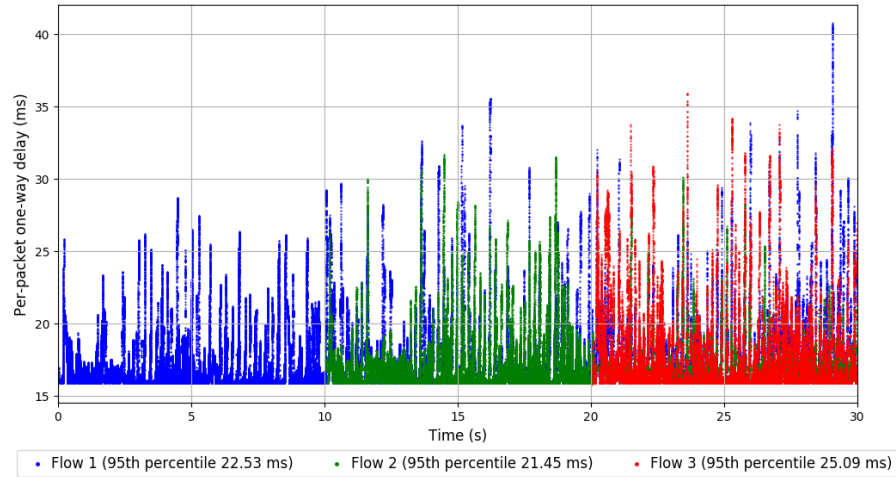
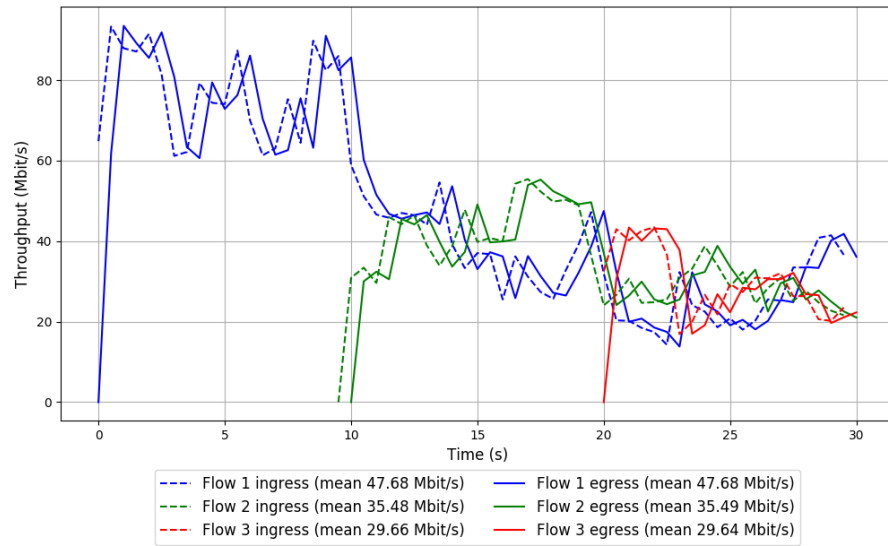


Run 5: Statistics of Copa

Start at: 2018-07-10 21:38:08  
End at: 2018-07-10 21:38:38  
Local clock offset: 0.525 ms  
Remote clock offset: -5.719 ms

# Below is generated by plot.py at 2018-07-10 23:46:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.17 Mbit/s  
95th percentile per-packet one-way delay: 22.592 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 47.68 Mbit/s  
95th percentile per-packet one-way delay: 22.531 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 35.49 Mbit/s  
95th percentile per-packet one-way delay: 21.446 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 29.64 Mbit/s  
95th percentile per-packet one-way delay: 25.087 ms  
Loss rate: 0.29%

## Run 5: Report of Copa — Data Link



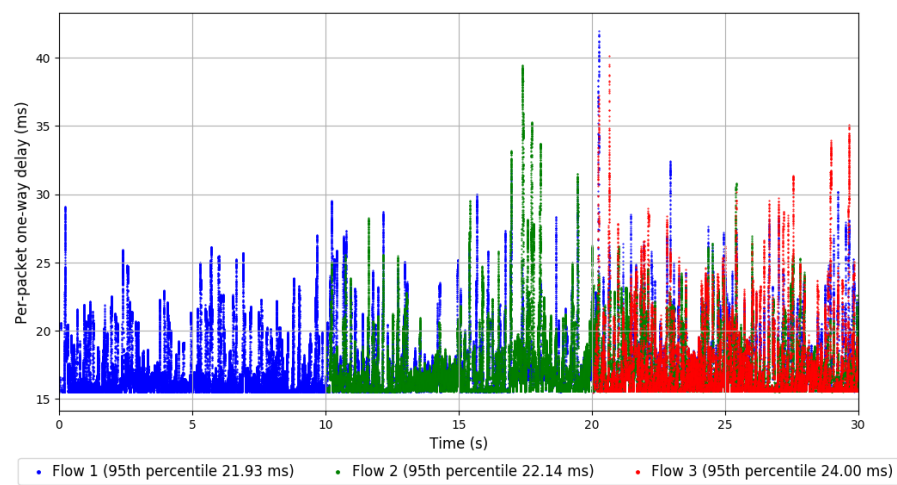
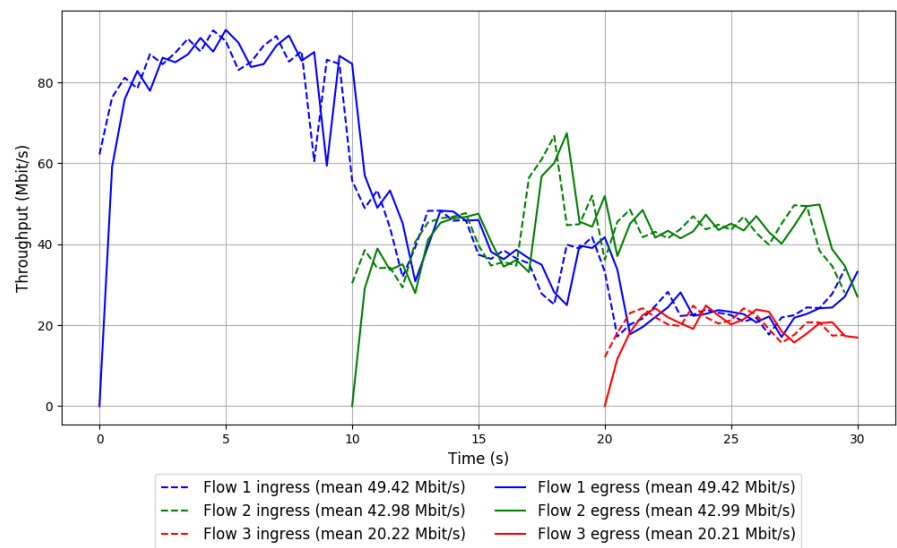
Run 6: Statistics of Copa

Start at: 2018-07-10 21:58:39  
End at: 2018-07-10 21:59:09  
Local clock offset: -0.07 ms  
Remote clock offset: -4.751 ms

# Below is generated by plot.py at 2018-07-10 23:46:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.77 Mbit/s  
95th percentile per-packet one-way delay: 22.178 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 49.42 Mbit/s  
95th percentile per-packet one-way delay: 21.926 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 42.99 Mbit/s  
95th percentile per-packet one-way delay: 22.136 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 20.21 Mbit/s  
95th percentile per-packet one-way delay: 23.996 ms  
Loss rate: 0.30%



Run 6: Report of Copa — Data Link

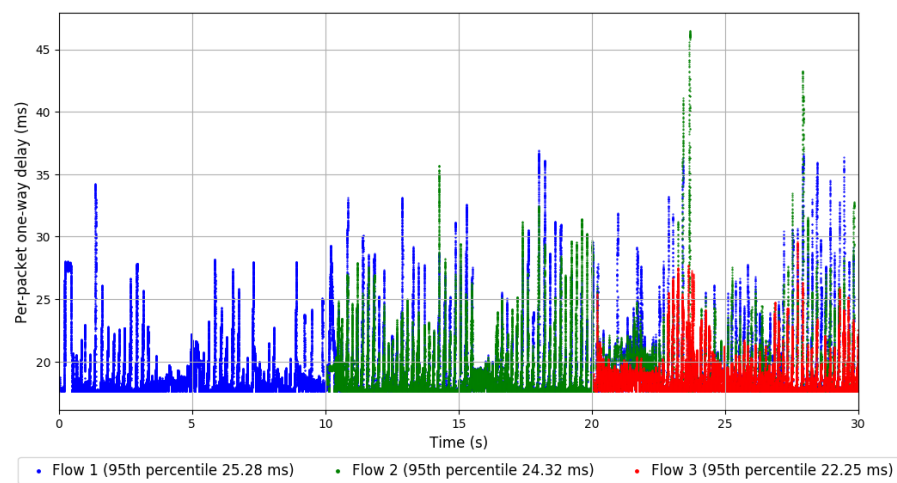
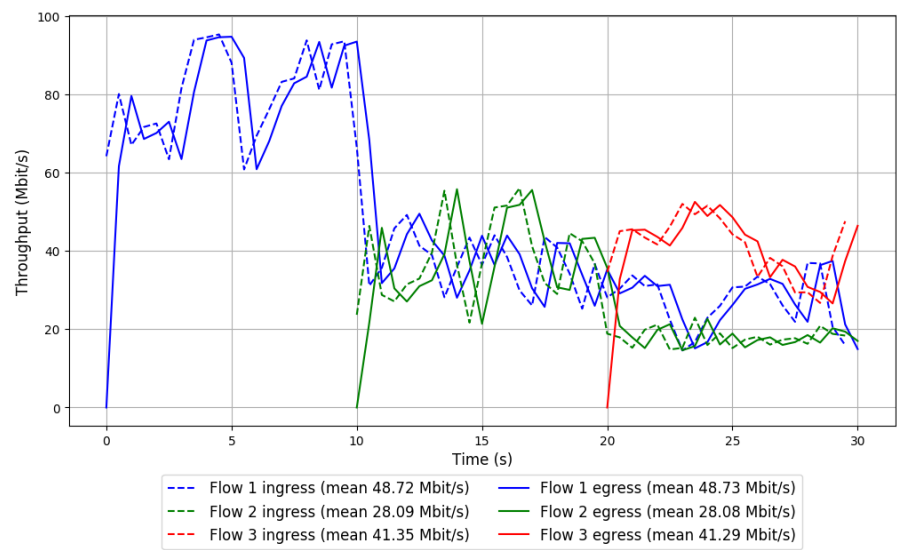


Run 7: Statistics of Copa

Start at: 2018-07-10 22:19:00  
End at: 2018-07-10 22:19:30  
Local clock offset: 2.077 ms  
Remote clock offset: -3.912 ms

# Below is generated by plot.py at 2018-07-10 23:47:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.13 Mbit/s  
95th percentile per-packet one-way delay: 24.418 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 48.73 Mbit/s  
95th percentile per-packet one-way delay: 25.282 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 28.08 Mbit/s  
95th percentile per-packet one-way delay: 24.322 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 41.29 Mbit/s  
95th percentile per-packet one-way delay: 22.253 ms  
Loss rate: 0.38%

Run 7: Report of Copa — Data Link

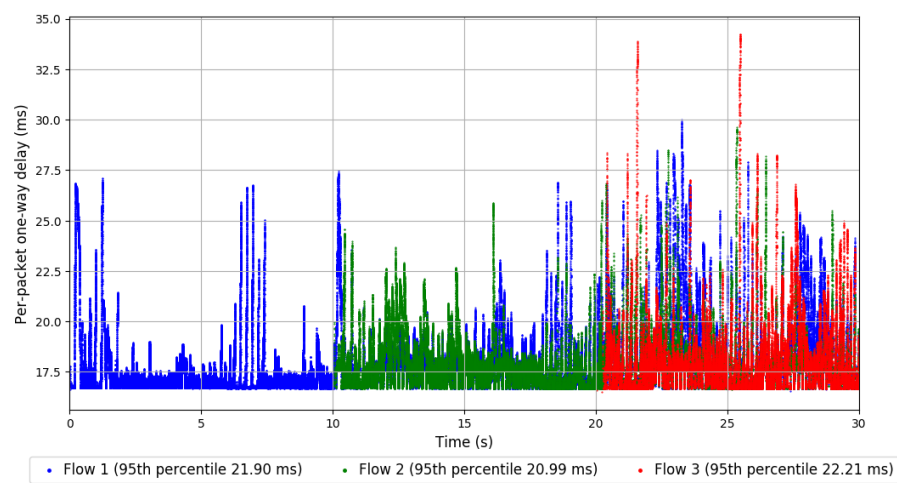
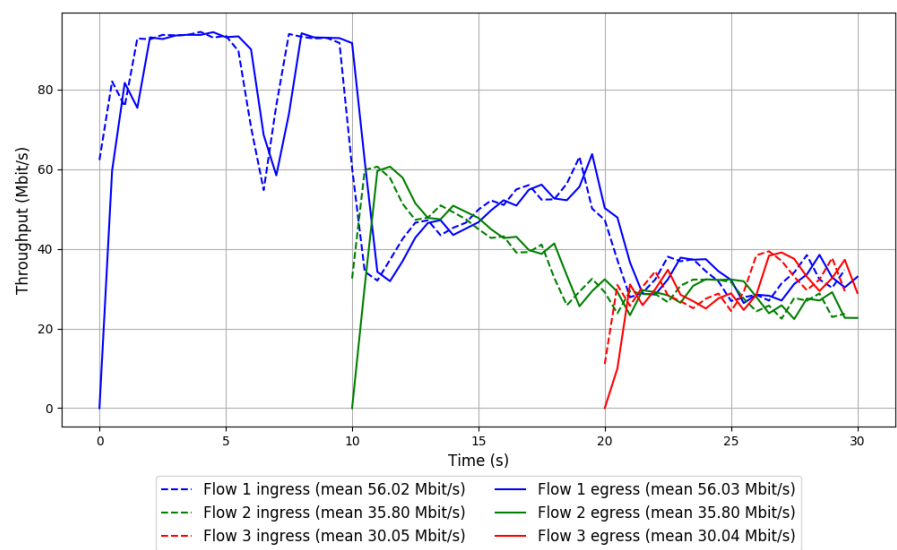


Run 8: Statistics of Copa

Start at: 2018-07-10 22:39:20  
End at: 2018-07-10 22:39:50  
Local clock offset: 1.746 ms  
Remote clock offset: -6.484 ms

# Below is generated by plot.py at 2018-07-10 23:47:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.84 Mbit/s  
95th percentile per-packet one-way delay: 21.604 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 56.03 Mbit/s  
95th percentile per-packet one-way delay: 21.902 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 35.80 Mbit/s  
95th percentile per-packet one-way delay: 20.988 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 30.04 Mbit/s  
95th percentile per-packet one-way delay: 22.207 ms  
Loss rate: 0.32%

Run 8: Report of Copa — Data Link

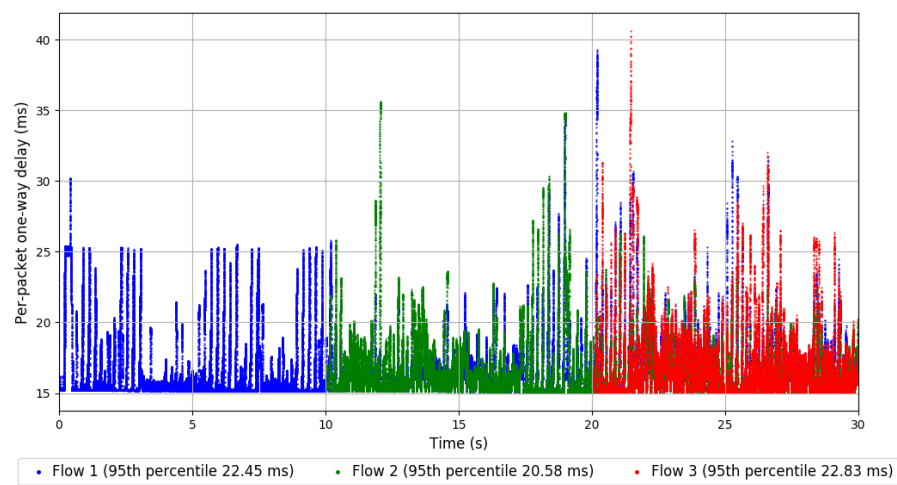
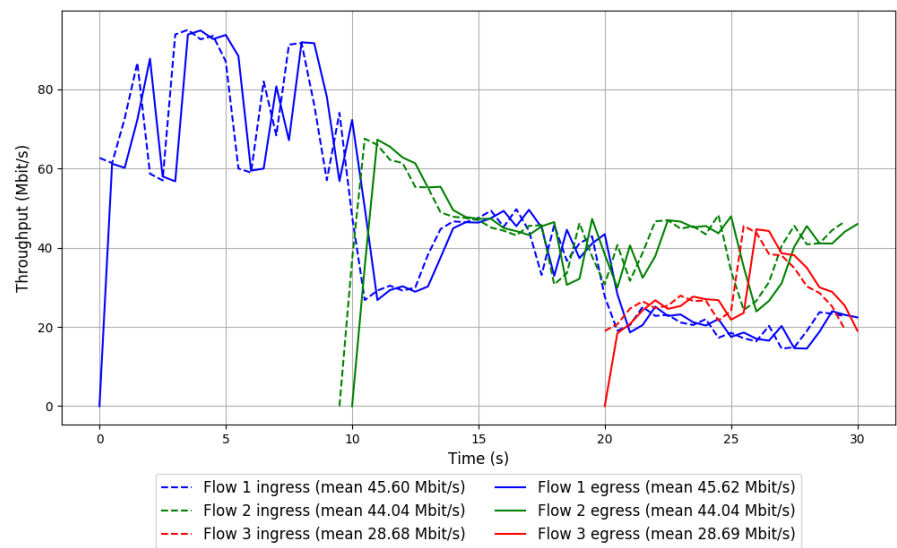


Run 9: Statistics of Copa

Start at: 2018-07-10 22:59:43  
End at: 2018-07-10 23:00:13  
Local clock offset: 0.148 ms  
Remote clock offset: -8.857 ms

# Below is generated by plot.py at 2018-07-10 23:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.47 Mbit/s  
95th percentile per-packet one-way delay: 21.675 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 45.62 Mbit/s  
95th percentile per-packet one-way delay: 22.447 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 44.04 Mbit/s  
95th percentile per-packet one-way delay: 20.584 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 28.69 Mbit/s  
95th percentile per-packet one-way delay: 22.833 ms  
Loss rate: 0.20%

Run 9: Report of Copa — Data Link



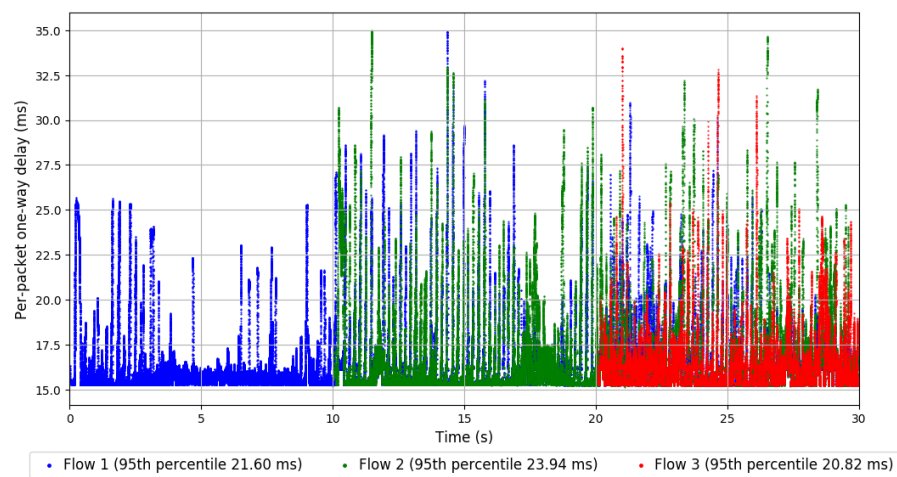
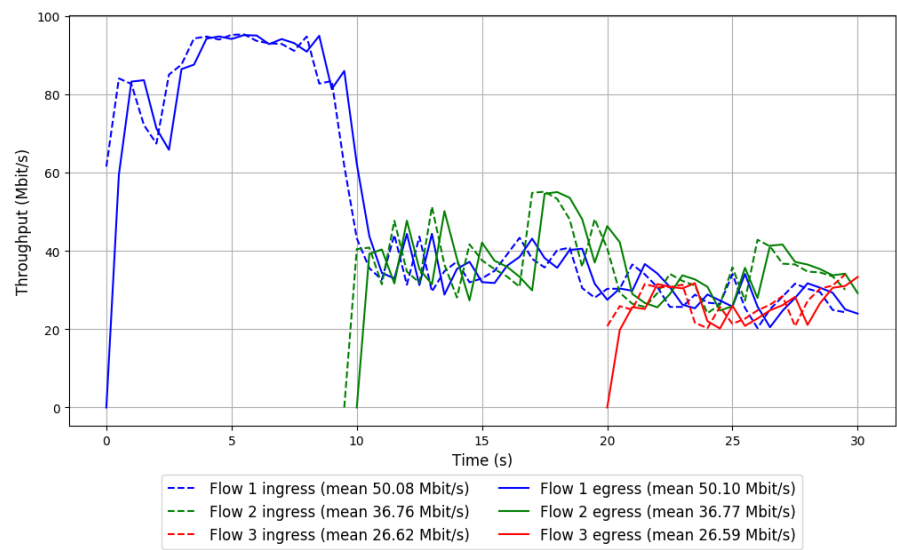
Run 10: Statistics of Copa

Start at: 2018-07-10 23:19:55  
End at: 2018-07-10 23:20:25  
Local clock offset: -0.137 ms  
Remote clock offset: -12.496 ms

# Below is generated by plot.py at 2018-07-10 23:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.42 Mbit/s  
95th percentile per-packet one-way delay: 22.373 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 50.10 Mbit/s  
95th percentile per-packet one-way delay: 21.597 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 36.77 Mbit/s  
95th percentile per-packet one-way delay: 23.938 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 26.59 Mbit/s  
95th percentile per-packet one-way delay: 20.817 ms  
Loss rate: 0.34%



Run 10: Report of Copa — Data Link

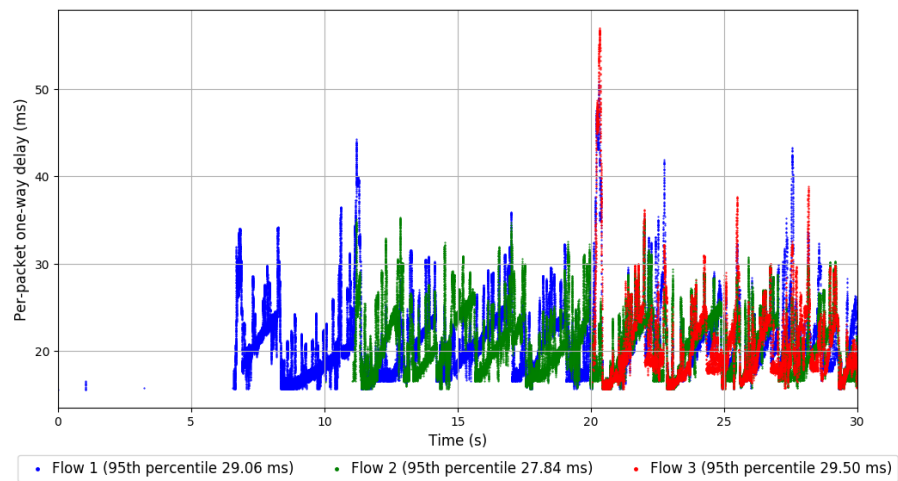
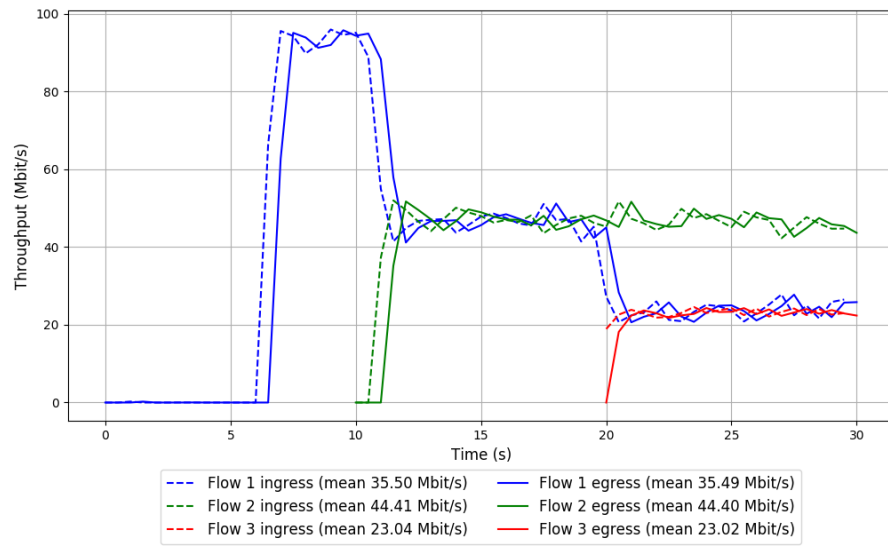


Run 1: Statistics of TCP Cubic

Start at: 2018-07-10 20:18:27  
End at: 2018-07-10 20:18:57  
Local clock offset: 0.51 ms  
Remote clock offset: -6.251 ms

# Below is generated by plot.py at 2018-07-10 23:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 72.69 Mbit/s  
95th percentile per-packet one-way delay: 28.498 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 35.49 Mbit/s  
95th percentile per-packet one-way delay: 29.063 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 44.40 Mbit/s  
95th percentile per-packet one-way delay: 27.838 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 23.02 Mbit/s  
95th percentile per-packet one-way delay: 29.503 ms  
Loss rate: 0.36%

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

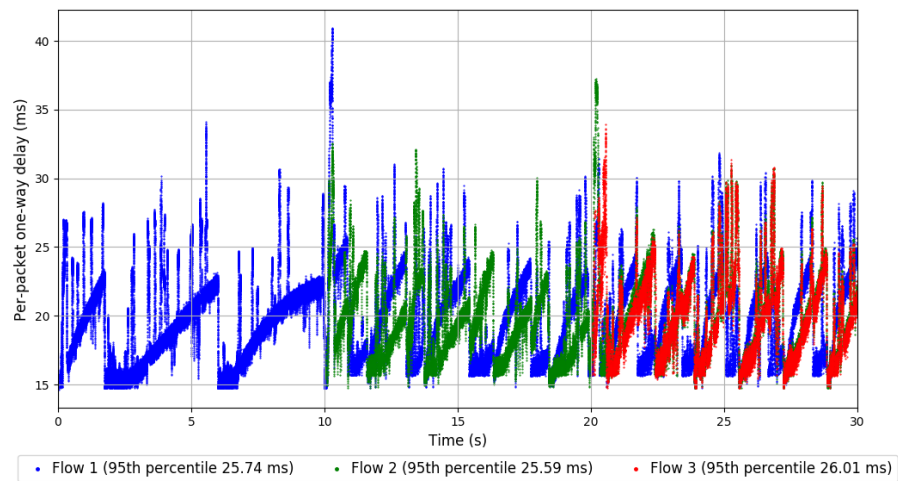
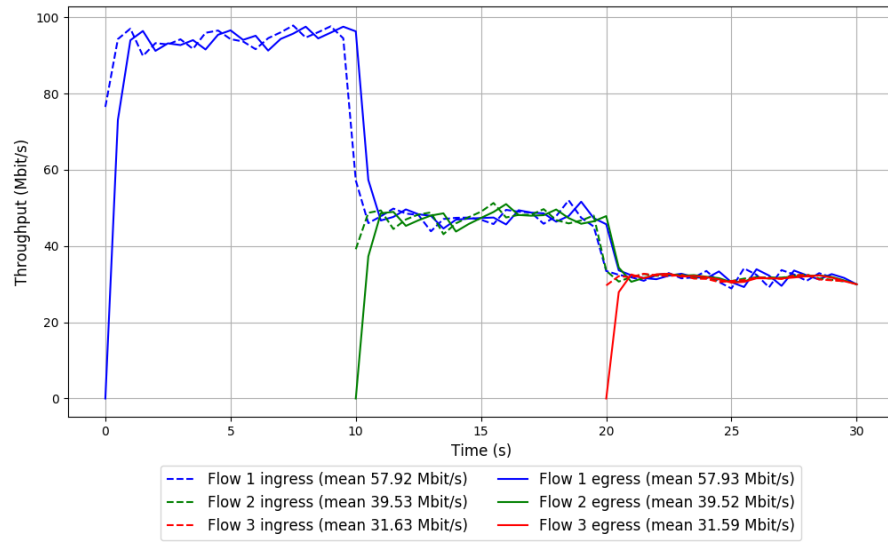


Run 2: Statistics of TCP Cubic

Start at: 2018-07-10 20:38:53  
End at: 2018-07-10 20:39:23  
Local clock offset: -0.147 ms  
Remote clock offset: -4.415 ms

# Below is generated by plot.py at 2018-07-10 23:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.74 Mbit/s  
95th percentile per-packet one-way delay: 25.729 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 57.93 Mbit/s  
95th percentile per-packet one-way delay: 25.739 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 39.52 Mbit/s  
95th percentile per-packet one-way delay: 25.593 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 31.59 Mbit/s  
95th percentile per-packet one-way delay: 26.008 ms  
Loss rate: 0.37%

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

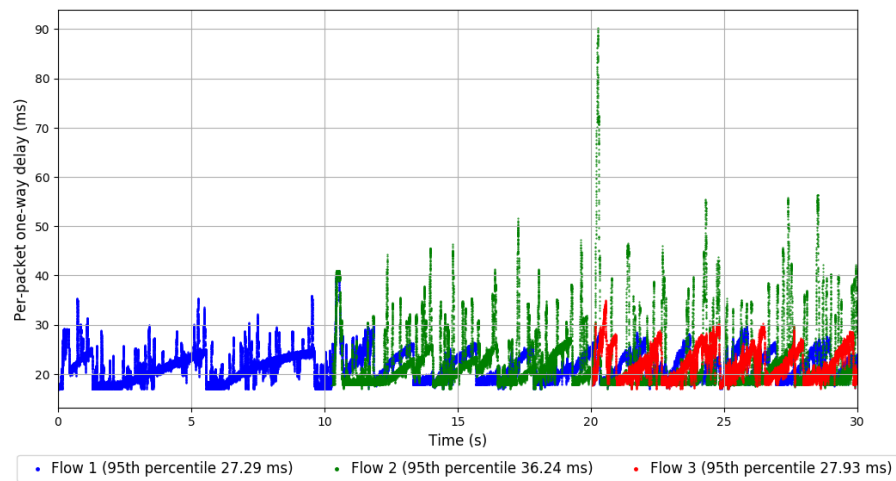
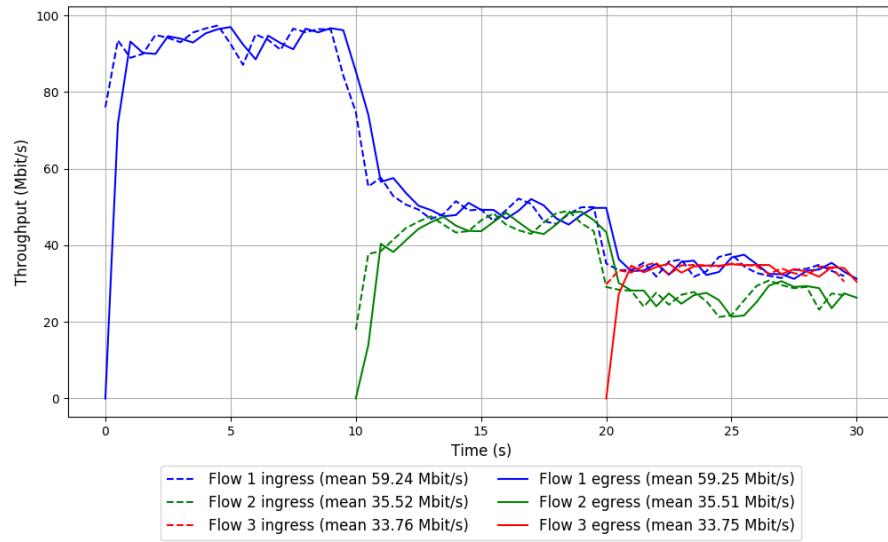


Run 3: Statistics of TCP Cubic

Start at: 2018-07-10 20:59:44  
End at: 2018-07-10 21:00:14  
Local clock offset: 2.049 ms  
Remote clock offset: -6.915 ms

# Below is generated by plot.py at 2018-07-10 23:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.81 Mbit/s  
95th percentile per-packet one-way delay: 28.811 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.25 Mbit/s  
95th percentile per-packet one-way delay: 27.293 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 35.51 Mbit/s  
95th percentile per-packet one-way delay: 36.237 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 33.75 Mbit/s  
95th percentile per-packet one-way delay: 27.927 ms  
Loss rate: 0.27%

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



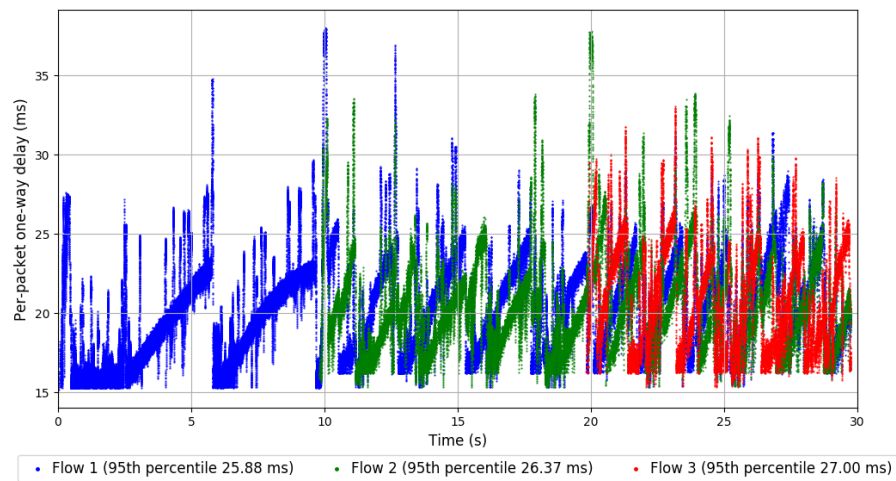
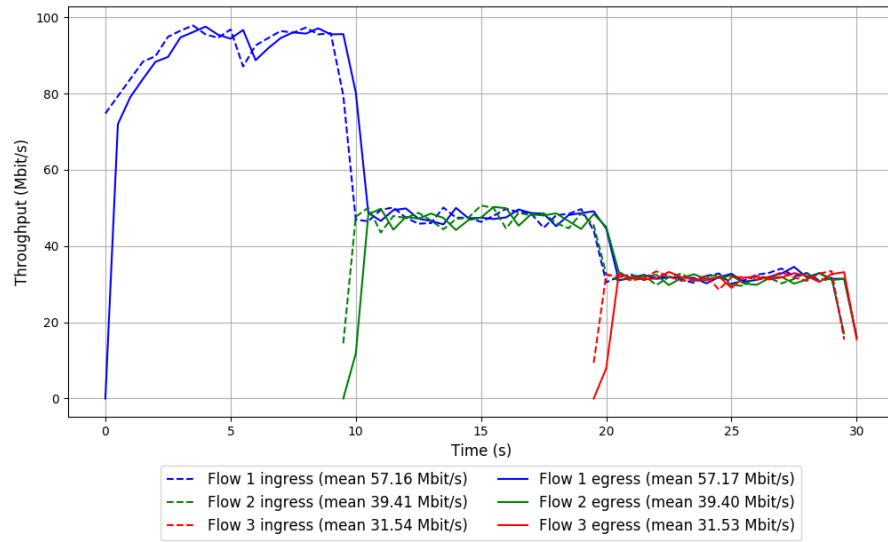
Run 4: Statistics of TCP Cubic

Start at: 2018-07-10 21:20:12  
End at: 2018-07-10 21:20:42  
Local clock offset: -0.188 ms  
Remote clock offset: -6.743 ms

# Below is generated by plot.py at 2018-07-10 23:48:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.16 Mbit/s  
95th percentile per-packet one-way delay: 26.160 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 57.17 Mbit/s  
95th percentile per-packet one-way delay: 25.881 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 26.369 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 31.53 Mbit/s  
95th percentile per-packet one-way delay: 26.995 ms  
Loss rate: 0.27%



# Run 4: Report of TCP Cubic — Data Link

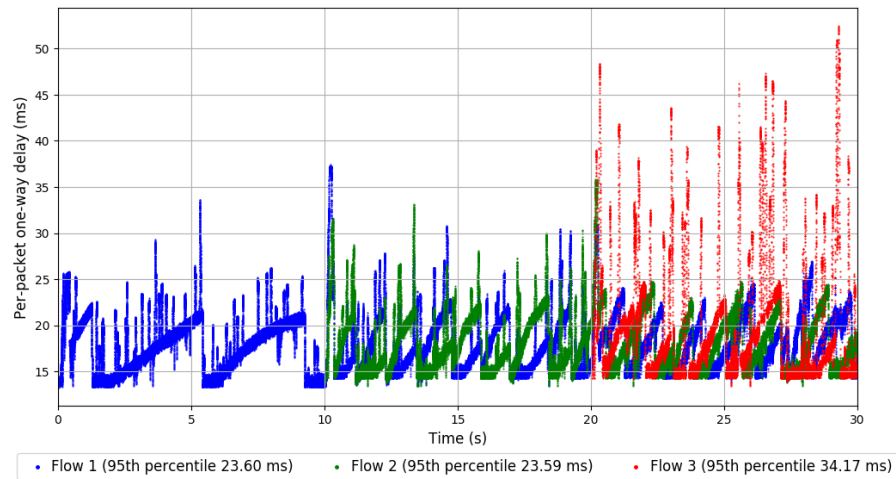
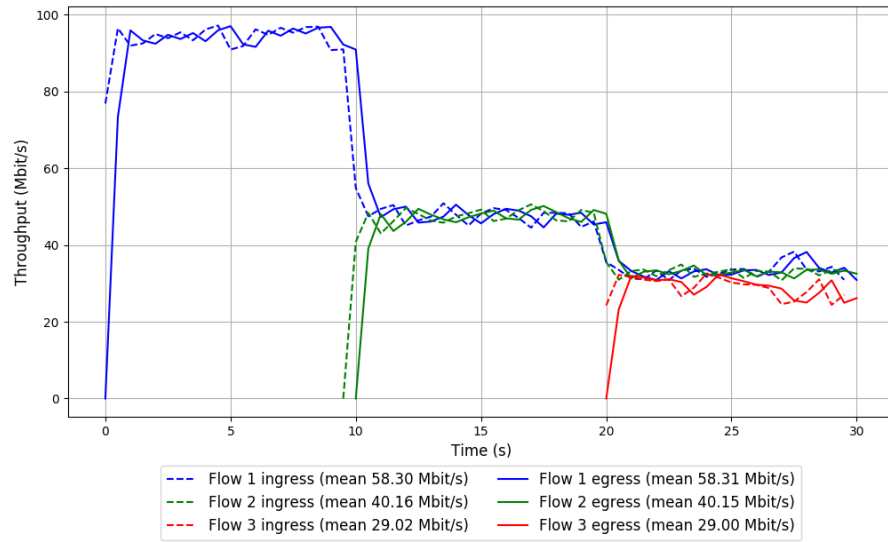


Run 5: Statistics of TCP Cubic

Start at: 2018-07-10 21:40:35  
End at: 2018-07-10 21:41:05  
Local clock offset: -2.538 ms  
Remote clock offset: -6.186 ms

# Below is generated by plot.py at 2018-07-10 23:48:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.69 Mbit/s  
95th percentile per-packet one-way delay: 24.295 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 58.31 Mbit/s  
95th percentile per-packet one-way delay: 23.599 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.15 Mbit/s  
95th percentile per-packet one-way delay: 23.591 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 29.00 Mbit/s  
95th percentile per-packet one-way delay: 34.166 ms  
Loss rate: 0.29%

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

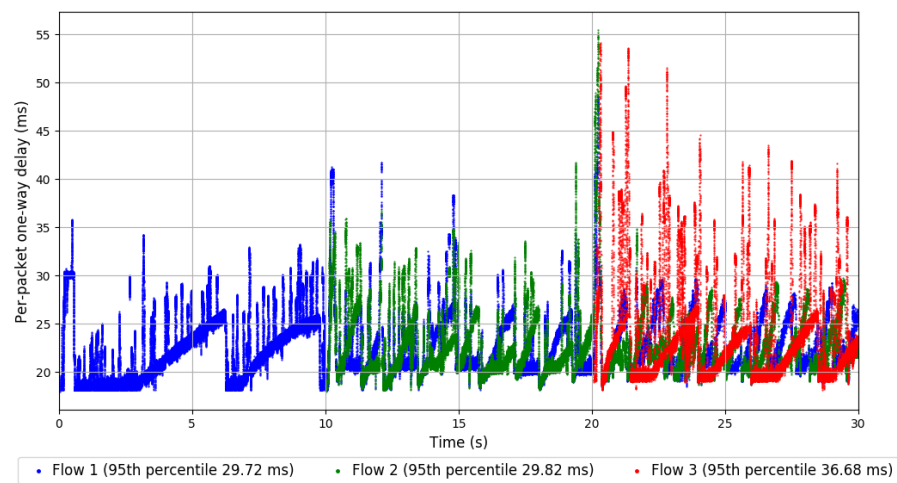
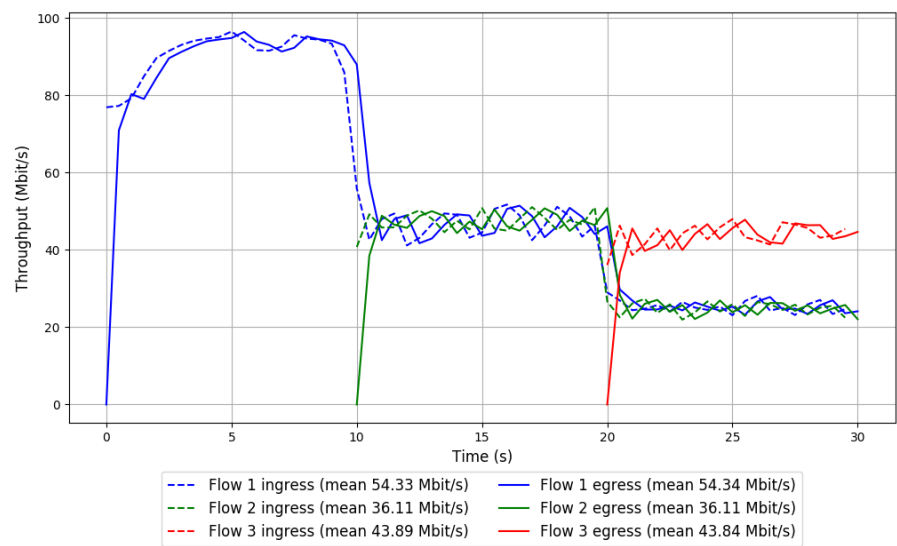


Run 6: Statistics of TCP Cubic

Start at: 2018-07-10 22:01:05  
End at: 2018-07-10 22:01:35  
Local clock offset: 2.175 ms  
Remote clock offset: -5.003 ms

# Below is generated by plot.py at 2018-07-10 23:48:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.93 Mbit/s  
95th percentile per-packet one-way delay: 30.197 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 54.34 Mbit/s  
95th percentile per-packet one-way delay: 29.716 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 36.11 Mbit/s  
95th percentile per-packet one-way delay: 29.822 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 43.84 Mbit/s  
95th percentile per-packet one-way delay: 36.679 ms  
Loss rate: 0.34%

Run 6: Report of TCP Cubic — Data Link

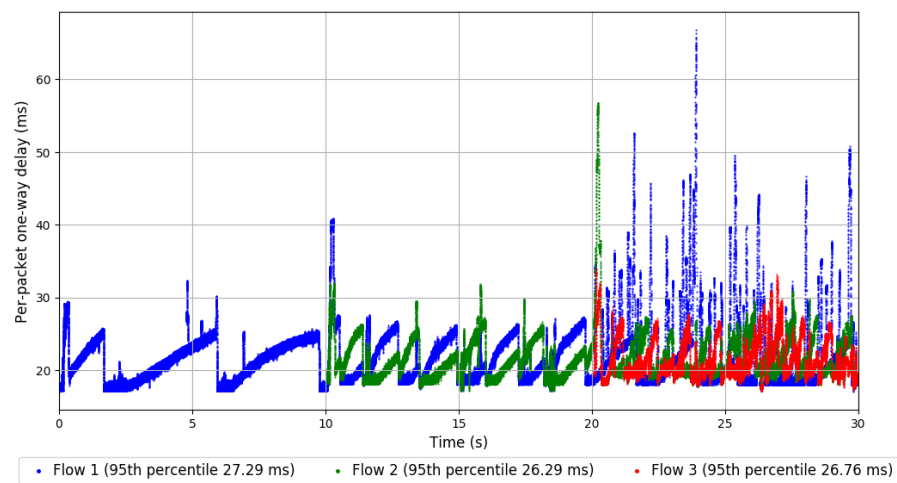
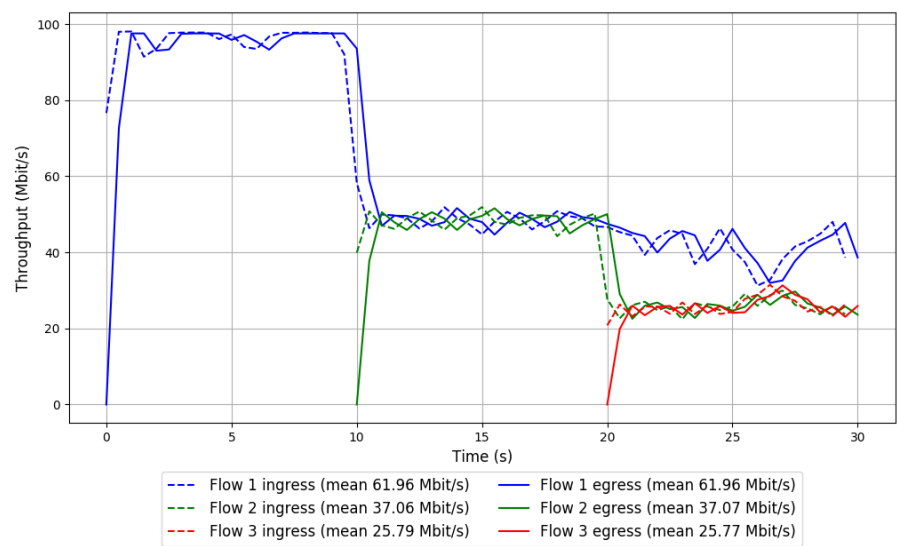


Run 7: Statistics of TCP Cubic

Start at: 2018-07-10 22:21:27  
End at: 2018-07-10 22:21:57  
Local clock offset: 1.393 ms  
Remote clock offset: -4.026 ms

# Below is generated by plot.py at 2018-07-10 23:48:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.20 Mbit/s  
95th percentile per-packet one-way delay: 26.771 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 61.96 Mbit/s  
95th percentile per-packet one-way delay: 27.290 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 37.07 Mbit/s  
95th percentile per-packet one-way delay: 26.288 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 25.77 Mbit/s  
95th percentile per-packet one-way delay: 26.758 ms  
Loss rate: 0.34%

Run 7: Report of TCP Cubic — Data Link



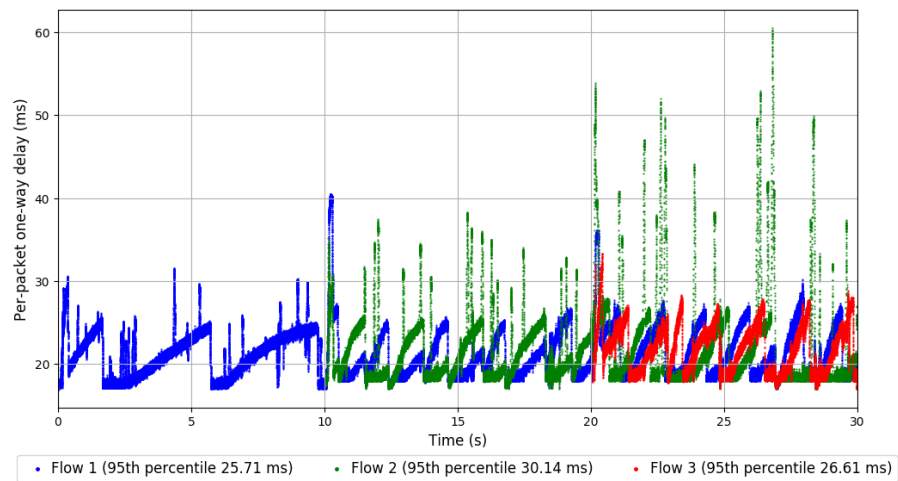
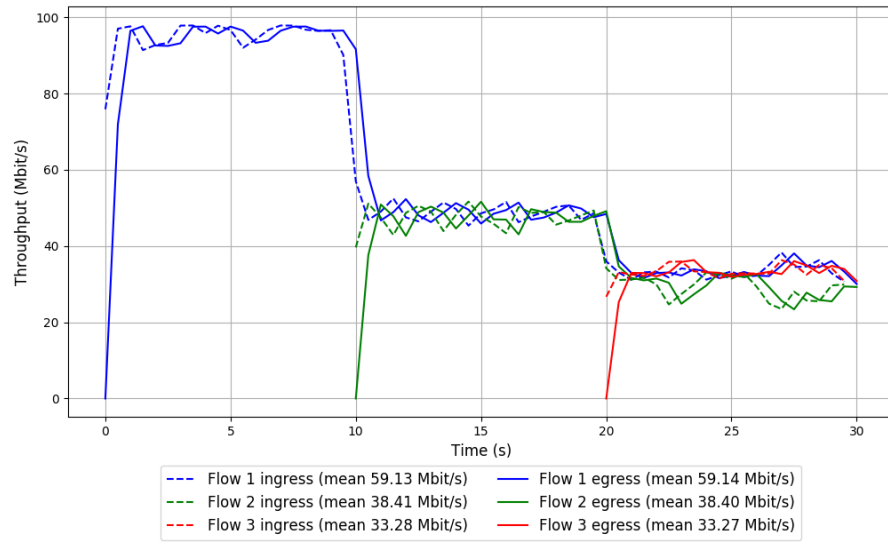
Run 8: Statistics of TCP Cubic

Start at: 2018-07-10 22:41:48  
End at: 2018-07-10 22:42:18  
Local clock offset: 2.666 ms  
Remote clock offset: -6.065 ms

# Below is generated by plot.py at 2018-07-10 23:48:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.75 Mbit/s  
95th percentile per-packet one-way delay: 26.381 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.14 Mbit/s  
95th percentile per-packet one-way delay: 25.713 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 38.40 Mbit/s  
95th percentile per-packet one-way delay: 30.143 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 33.27 Mbit/s  
95th percentile per-packet one-way delay: 26.608 ms  
Loss rate: 0.27%



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

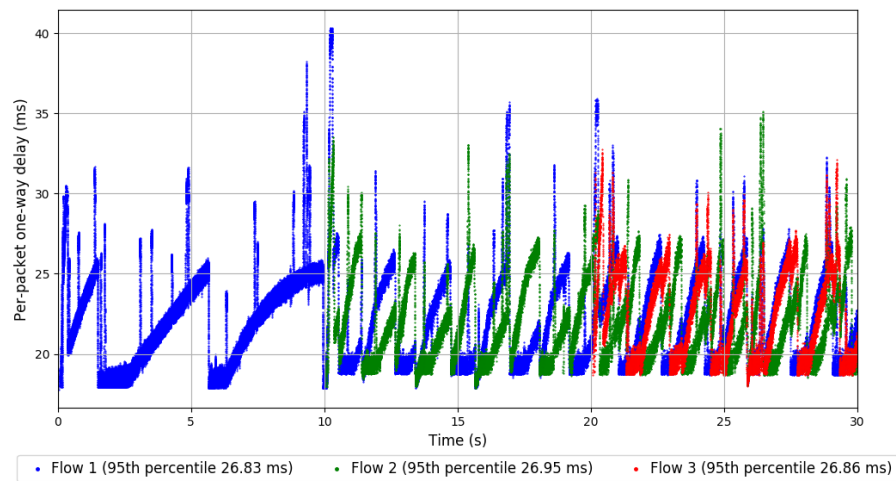
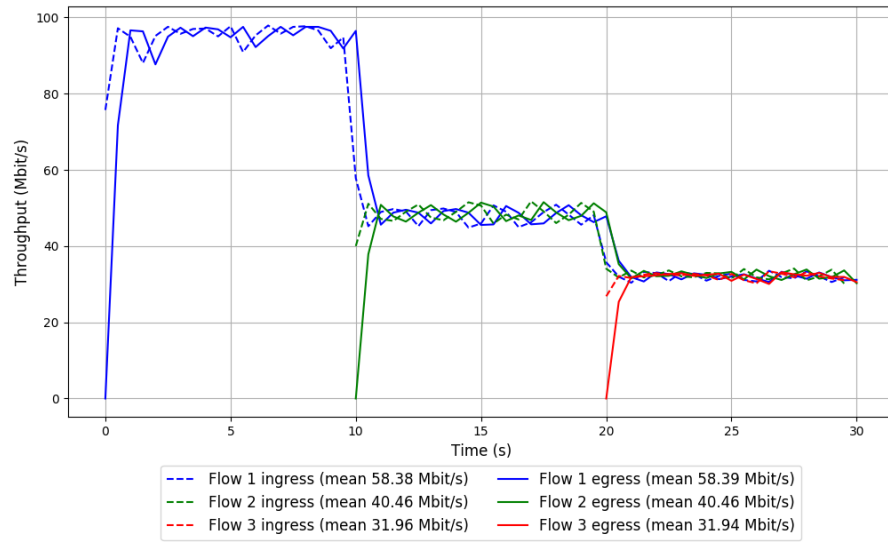


Run 9: Statistics of TCP Cubic

Start at: 2018-07-10 23:02:09  
End at: 2018-07-10 23:02:39  
Local clock offset: 2.648 ms  
Remote clock offset: -9.733 ms

# Below is generated by plot.py at 2018-07-10 23:49:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.93 Mbit/s  
95th percentile per-packet one-way delay: 26.877 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 58.39 Mbit/s  
95th percentile per-packet one-way delay: 26.826 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.46 Mbit/s  
95th percentile per-packet one-way delay: 26.949 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.94 Mbit/s  
95th percentile per-packet one-way delay: 26.863 ms  
Loss rate: 0.30%

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

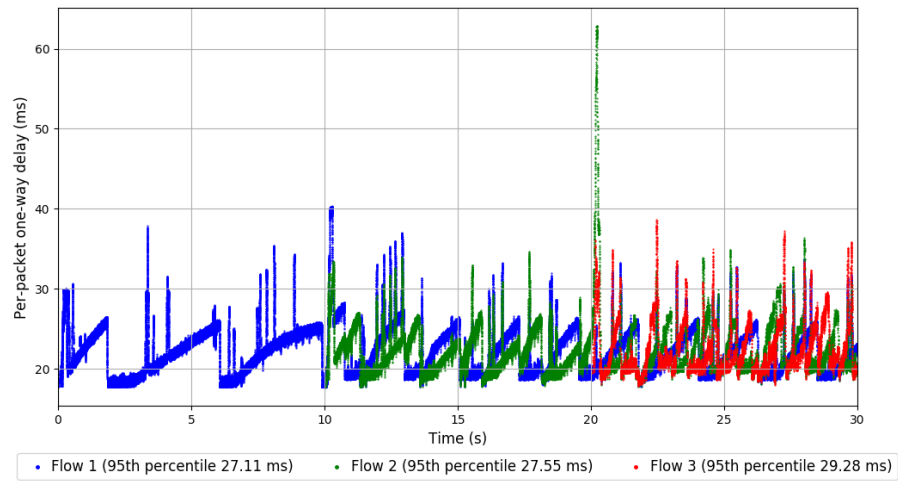
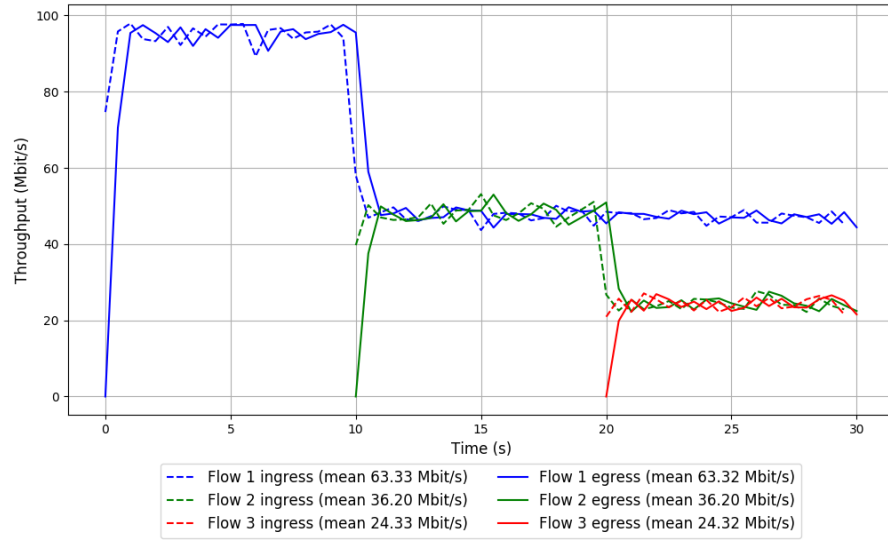


Run 10: Statistics of TCP Cubic

Start at: 2018-07-10 23:22:26  
End at: 2018-07-10 23:22:56  
Local clock offset: 1.783 ms  
Remote clock offset: -13.308 ms

# Below is generated by plot.py at 2018-07-10 23:49:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.50 Mbit/s  
95th percentile per-packet one-way delay: 27.451 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 63.32 Mbit/s  
95th percentile per-packet one-way delay: 27.107 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 36.20 Mbit/s  
95th percentile per-packet one-way delay: 27.552 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 24.32 Mbit/s  
95th percentile per-packet one-way delay: 29.276 ms  
Loss rate: 0.29%

# Run 10: Report of TCP Cubic — Data Link

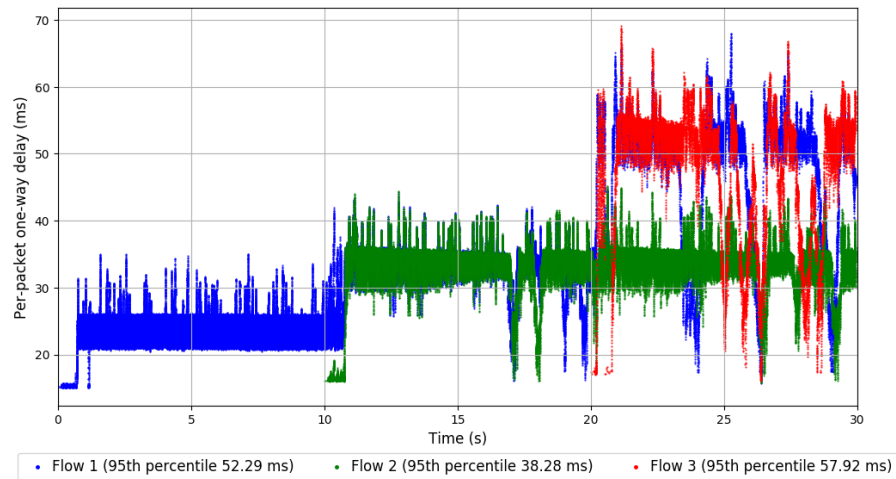
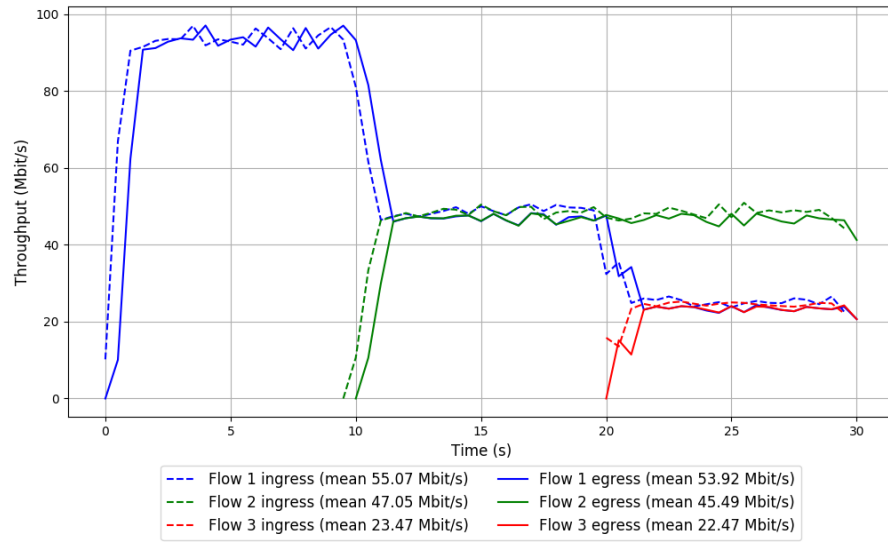


Run 1: Statistics of FillP

Start at: 2018-07-10 20:22:06  
End at: 2018-07-10 20:22:36  
Local clock offset: 0.07 ms  
Remote clock offset: -5.801 ms

# Below is generated by plot.py at 2018-07-10 23:49:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.65 Mbit/s  
95th percentile per-packet one-way delay: 52.952 ms  
Loss rate: 2.82%  
-- Flow 1:  
Average throughput: 53.92 Mbit/s  
95th percentile per-packet one-way delay: 52.287 ms  
Loss rate: 2.16%  
-- Flow 2:  
Average throughput: 45.49 Mbit/s  
95th percentile per-packet one-way delay: 38.277 ms  
Loss rate: 3.50%  
-- Flow 3:  
Average throughput: 22.47 Mbit/s  
95th percentile per-packet one-way delay: 57.918 ms  
Loss rate: 4.70%

## Run 1: Report of FillP — Data Link



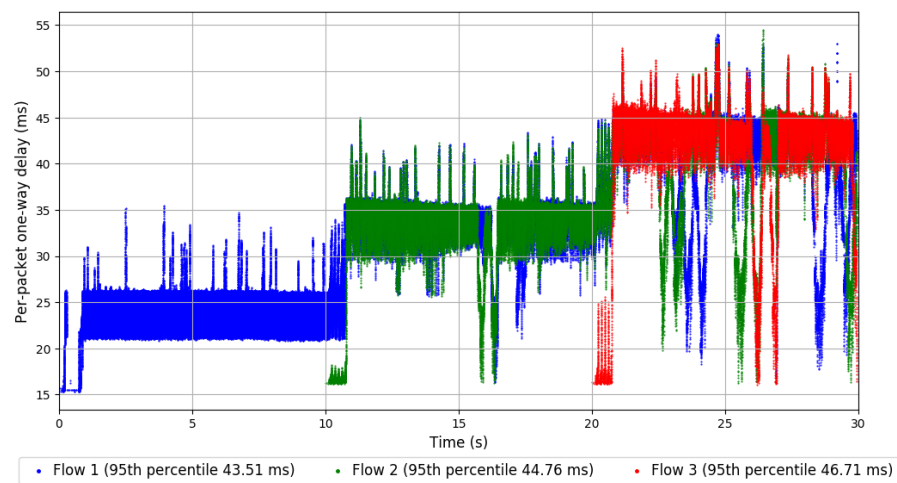
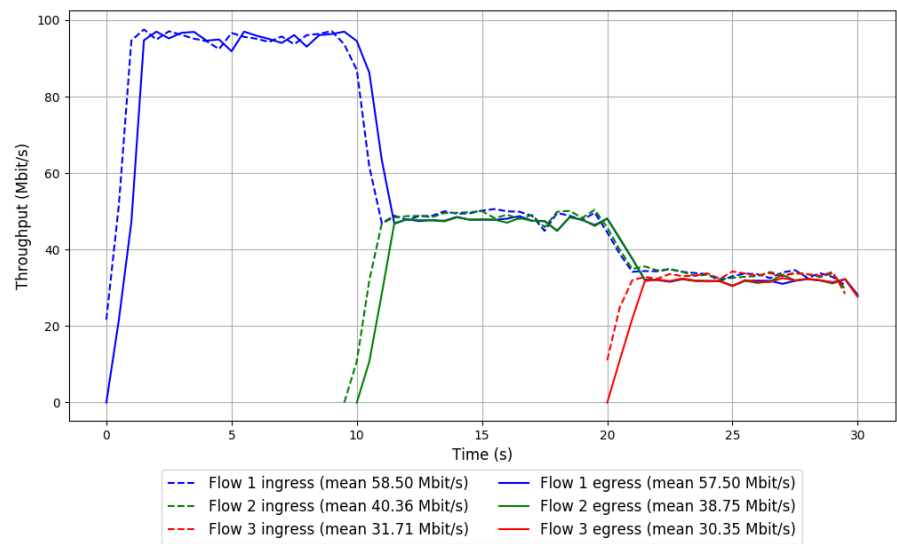
Run 2: Statistics of FillP

Start at: 2018-07-10 20:42:29  
End at: 2018-07-10 20:42:59  
Local clock offset: -0.232 ms  
Remote clock offset: -6.073 ms

# Below is generated by plot.py at 2018-07-10 23:49:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.37 Mbit/s  
95th percentile per-packet one-way delay: 44.573 ms  
Loss rate: 2.75%  
-- Flow 1:  
Average throughput: 57.50 Mbit/s  
95th percentile per-packet one-way delay: 43.514 ms  
Loss rate: 1.82%  
-- Flow 2:  
Average throughput: 38.75 Mbit/s  
95th percentile per-packet one-way delay: 44.756 ms  
Loss rate: 4.09%  
-- Flow 3:  
Average throughput: 30.35 Mbit/s  
95th percentile per-packet one-way delay: 46.714 ms  
Loss rate: 4.49%



Run 2: Report of FillP — Data Link

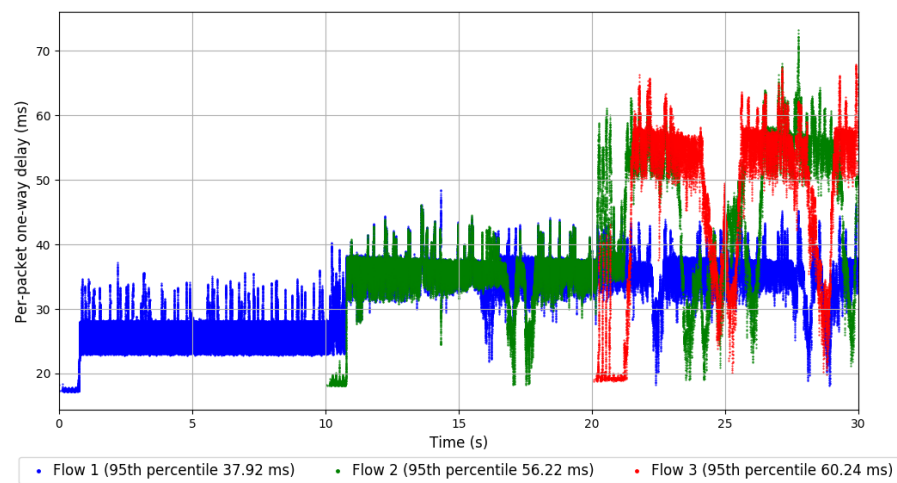
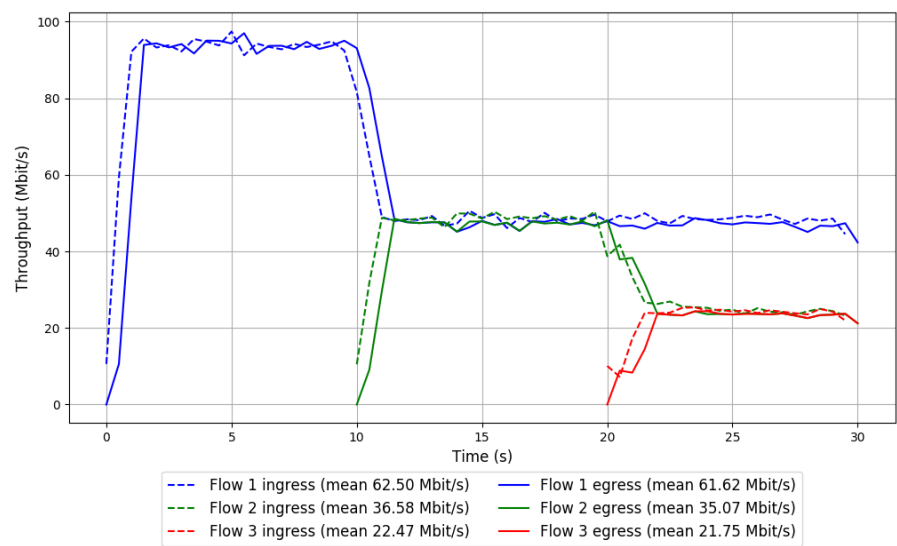


Run 3: Statistics of FillP

Start at: 2018-07-10 21:03:18  
End at: 2018-07-10 21:03:48  
Local clock offset: 2.09 ms  
Remote clock offset: -7.364 ms

# Below is generated by plot.py at 2018-07-10 23:49:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.13 Mbit/s  
95th percentile per-packet one-way delay: 54.801 ms  
Loss rate: 2.38%  
-- Flow 1:  
Average throughput: 61.62 Mbit/s  
95th percentile per-packet one-way delay: 37.918 ms  
Loss rate: 1.51%  
-- Flow 2:  
Average throughput: 35.07 Mbit/s  
95th percentile per-packet one-way delay: 56.215 ms  
Loss rate: 4.24%  
-- Flow 3:  
Average throughput: 21.75 Mbit/s  
95th percentile per-packet one-way delay: 60.238 ms  
Loss rate: 3.61%

Run 3: Report of FillP — Data Link

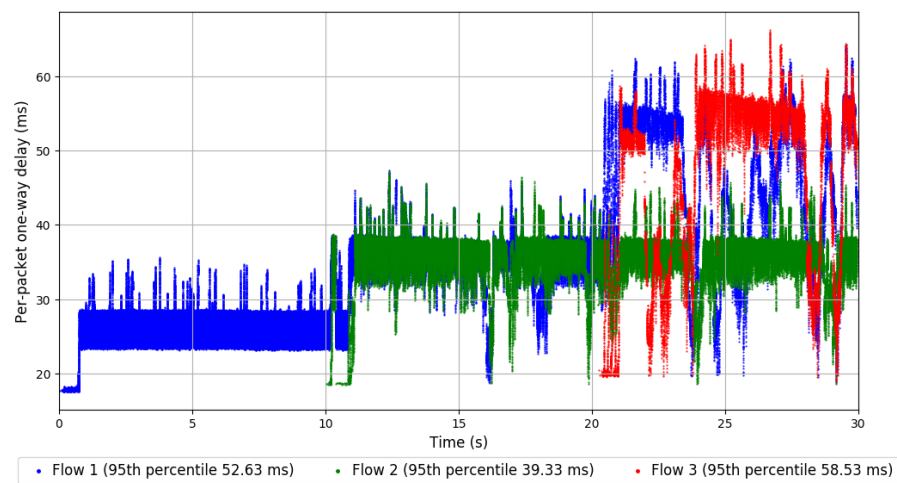
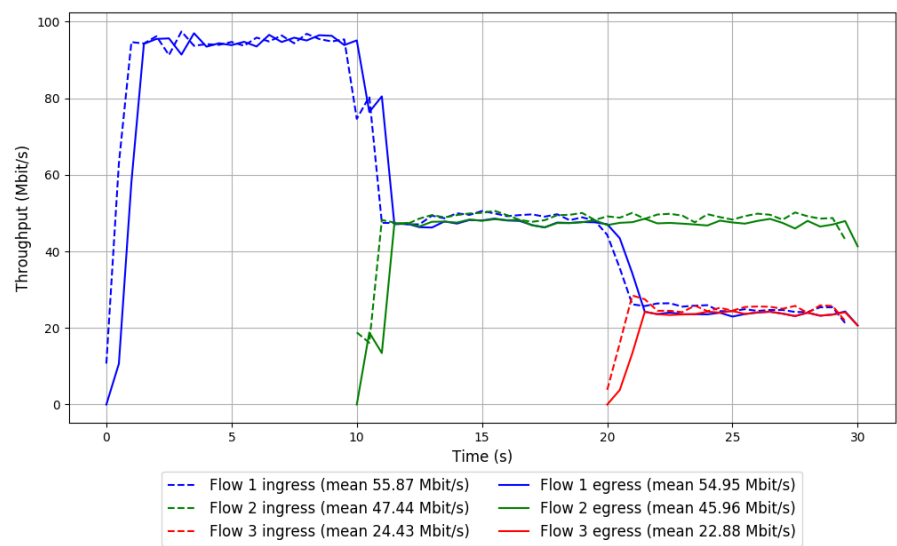


Run 4: Statistics of FillP

Start at: 2018-07-10 21:23:46  
End at: 2018-07-10 21:24:16  
Local clock offset: 1.916 ms  
Remote clock offset: -6.814 ms

# Below is generated by plot.py at 2018-07-10 23:50:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.93 Mbit/s  
95th percentile per-packet one-way delay: 53.909 ms  
Loss rate: 2.63%  
-- Flow 1:  
Average throughput: 54.95 Mbit/s  
95th percentile per-packet one-way delay: 52.635 ms  
Loss rate: 1.72%  
-- Flow 2:  
Average throughput: 45.96 Mbit/s  
95th percentile per-packet one-way delay: 39.329 ms  
Loss rate: 3.24%  
-- Flow 3:  
Average throughput: 22.88 Mbit/s  
95th percentile per-packet one-way delay: 58.532 ms  
Loss rate: 6.59%

Run 4: Report of FillP — Data Link

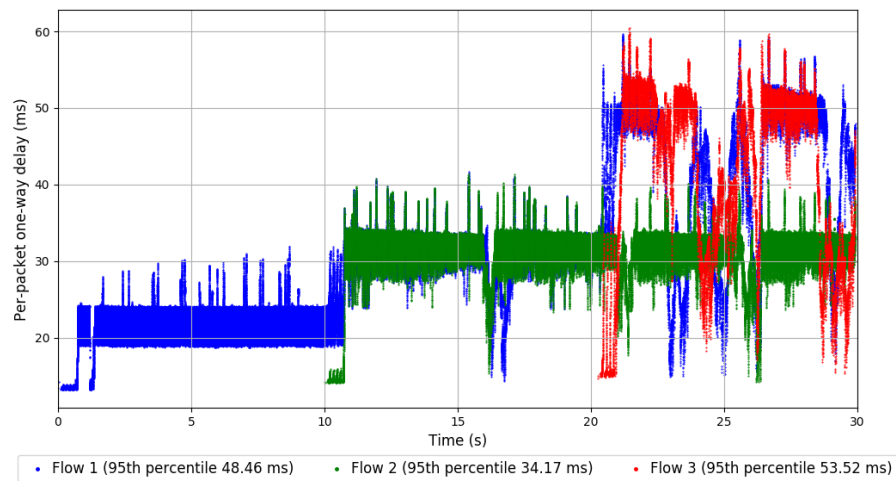
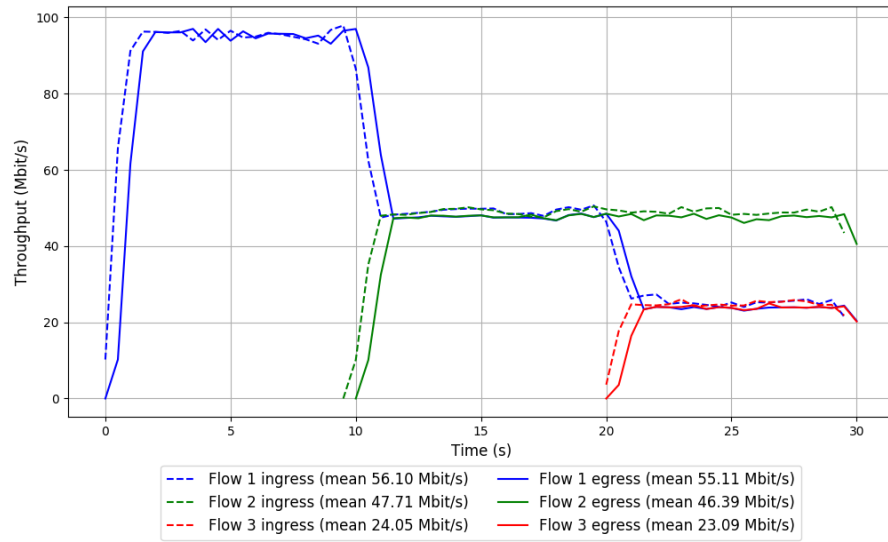


Run 5: Statistics of FillP

Start at: 2018-07-10 21:44:10  
End at: 2018-07-10 21:44:40  
Local clock offset: -2.239 ms  
Remote clock offset: -5.793 ms

# Below is generated by plot.py at 2018-07-10 23:50:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.46 Mbit/s  
95th percentile per-packet one-way delay: 49.398 ms  
Loss rate: 2.40%  
-- Flow 1:  
Average throughput: 55.11 Mbit/s  
95th percentile per-packet one-way delay: 48.458 ms  
Loss rate: 1.84%  
-- Flow 2:  
Average throughput: 46.39 Mbit/s  
95th percentile per-packet one-way delay: 34.173 ms  
Loss rate: 2.93%  
-- Flow 3:  
Average throughput: 23.09 Mbit/s  
95th percentile per-packet one-way delay: 53.521 ms  
Loss rate: 4.26%

# Run 5: Report of FillP — Data Link



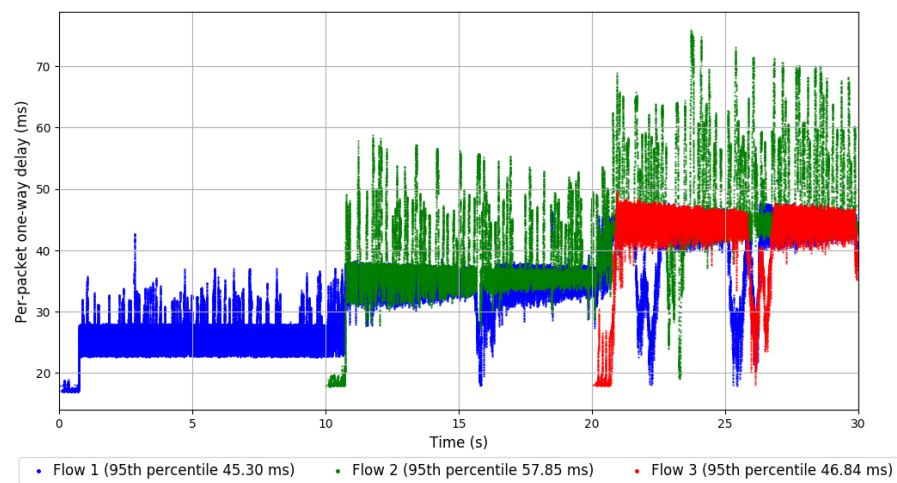
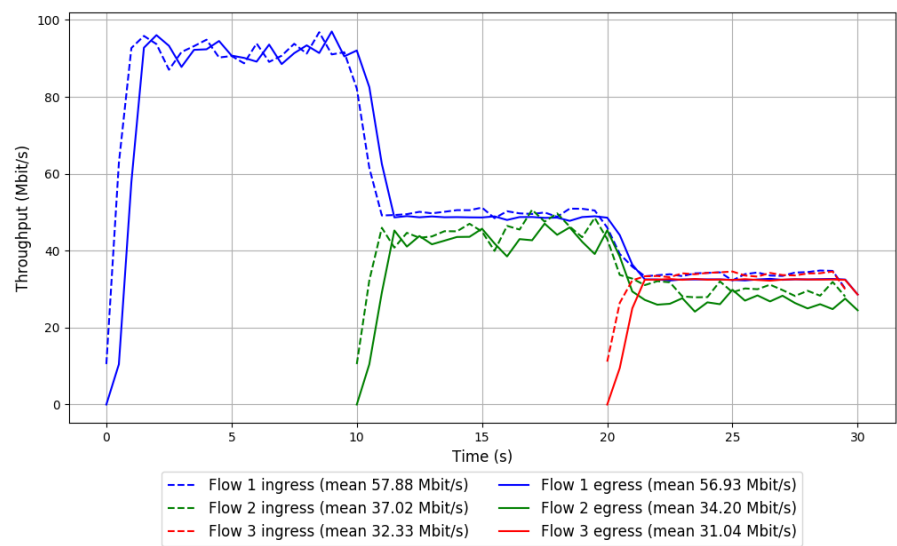
Run 6: Statistics of FillP

Start at: 2018-07-10 22:04:37  
End at: 2018-07-10 22:05:07  
Local clock offset: 2.446 ms  
Remote clock offset: -3.521 ms

# Below is generated by plot.py at 2018-07-10 23:50:19  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.97 Mbit/s  
95th percentile per-packet one-way delay: 47.027 ms  
Loss rate: 3.60%  
-- Flow 1:  
Average throughput: 56.93 Mbit/s  
95th percentile per-packet one-way delay: 45.297 ms  
Loss rate: 1.71%  
-- Flow 2:  
Average throughput: 34.20 Mbit/s  
95th percentile per-packet one-way delay: 57.847 ms  
Loss rate: 7.77%  
-- Flow 3:  
Average throughput: 31.04 Mbit/s  
95th percentile per-packet one-way delay: 46.837 ms  
Loss rate: 4.17%



Run 6: Report of FillP — Data Link

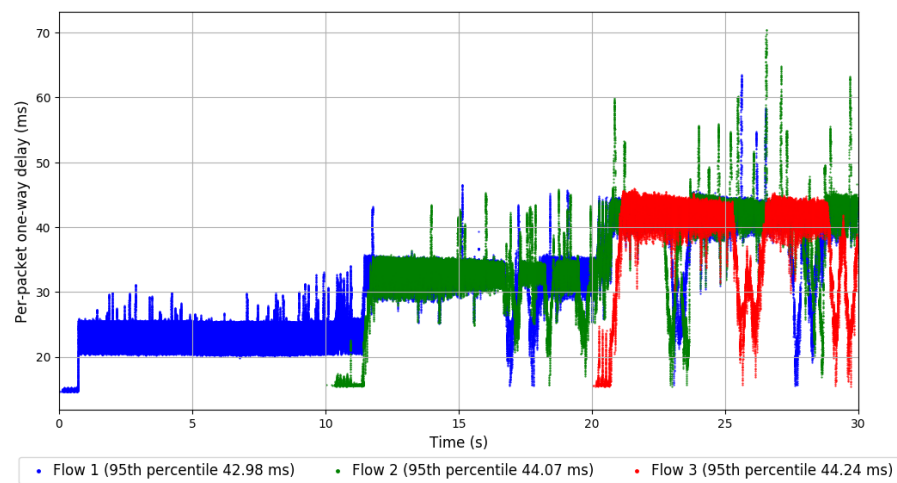
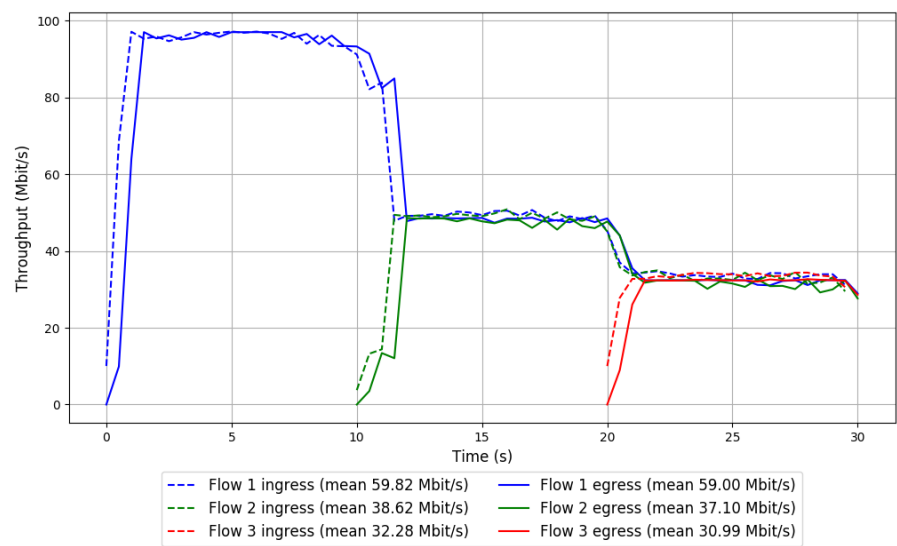


Run 7: Statistics of FillP

Start at: 2018-07-10 22:24:55  
End at: 2018-07-10 22:25:25  
Local clock offset: -0.798 ms  
Remote clock offset: -4.915 ms

# Below is generated by plot.py at 2018-07-10 23:50:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.92 Mbit/s  
95th percentile per-packet one-way delay: 43.646 ms  
Loss rate: 2.50%  
-- Flow 1:  
Average throughput: 59.00 Mbit/s  
95th percentile per-packet one-way delay: 42.975 ms  
Loss rate: 1.50%  
-- Flow 2:  
Average throughput: 37.10 Mbit/s  
95th percentile per-packet one-way delay: 44.074 ms  
Loss rate: 4.13%  
-- Flow 3:  
Average throughput: 30.99 Mbit/s  
95th percentile per-packet one-way delay: 44.236 ms  
Loss rate: 4.20%

Run 7: Report of FillP — Data Link

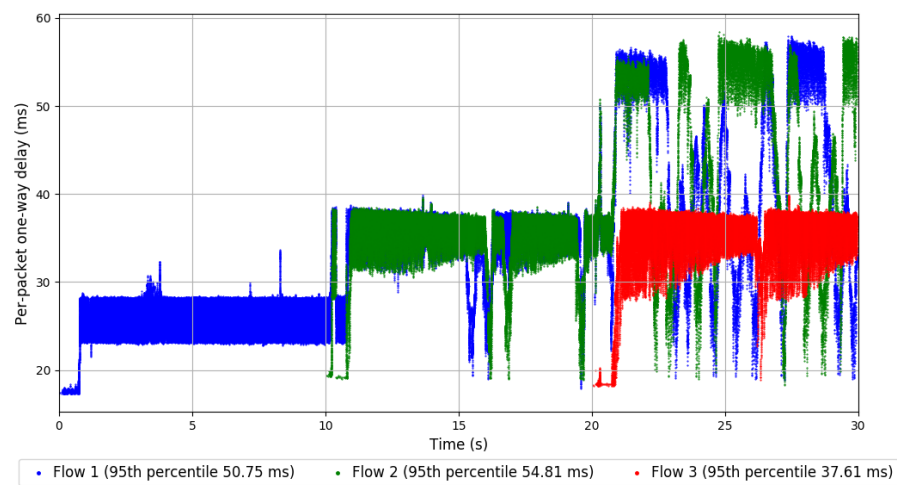
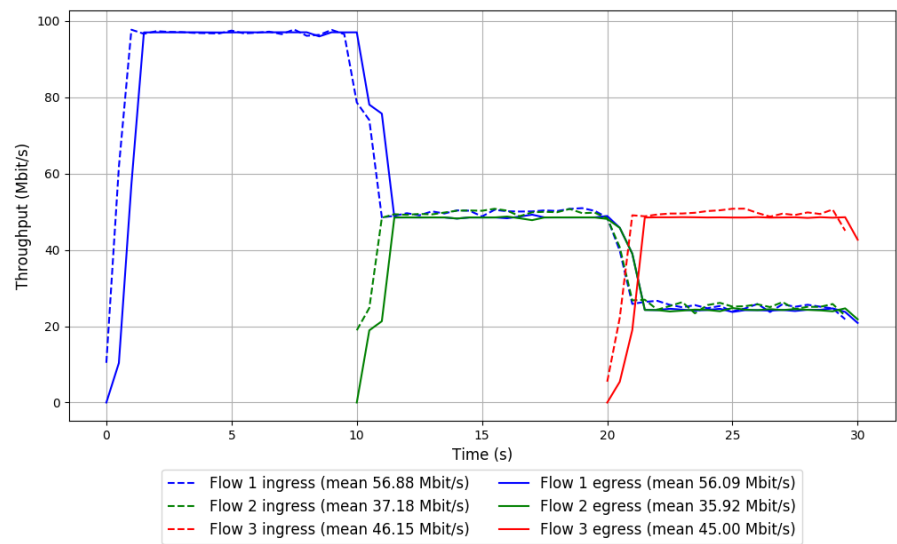


Run 8: Statistics of FillP

Start at: 2018-07-10 22:45:24  
End at: 2018-07-10 22:45:54  
Local clock offset: 2.34 ms  
Remote clock offset: -7.038 ms

# Below is generated by plot.py at 2018-07-10 23:50:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.88 Mbit/s  
95th percentile per-packet one-way delay: 52.845 ms  
Loss rate: 2.22%  
-- Flow 1:  
Average throughput: 56.09 Mbit/s  
95th percentile per-packet one-way delay: 50.749 ms  
Loss rate: 1.47%  
-- Flow 2:  
Average throughput: 35.92 Mbit/s  
95th percentile per-packet one-way delay: 54.815 ms  
Loss rate: 3.58%  
-- Flow 3:  
Average throughput: 45.00 Mbit/s  
95th percentile per-packet one-way delay: 37.608 ms  
Loss rate: 2.81%

Run 8: Report of FillP — Data Link

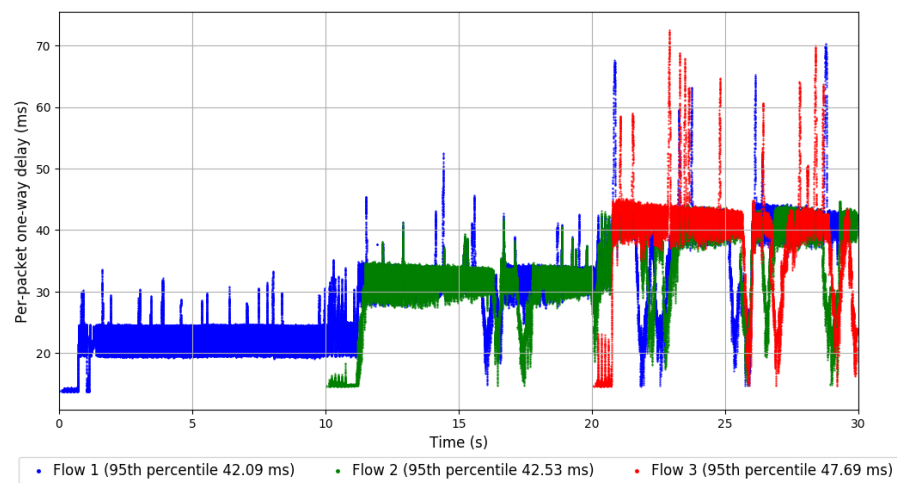
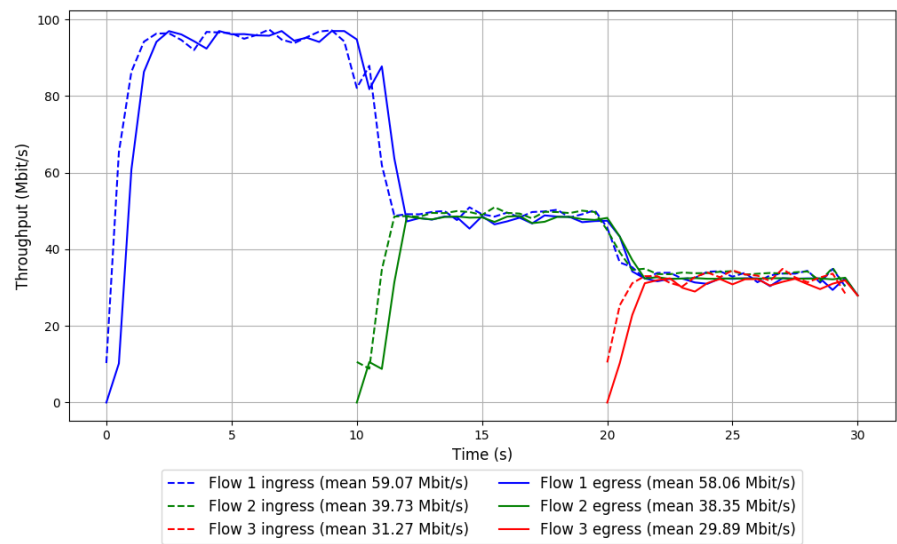


Run 9: Statistics of FillP

Start at: 2018-07-10 23:05:37  
End at: 2018-07-10 23:06:07  
Local clock offset: -0.818 ms  
Remote clock offset: -9.888 ms

# Below is generated by plot.py at 2018-07-10 23:51:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.47 Mbit/s  
95th percentile per-packet one-way delay: 42.727 ms  
Loss rate: 2.61%  
-- Flow 1:  
Average throughput: 58.06 Mbit/s  
95th percentile per-packet one-way delay: 42.090 ms  
Loss rate: 1.79%  
-- Flow 2:  
Average throughput: 38.35 Mbit/s  
95th percentile per-packet one-way delay: 42.527 ms  
Loss rate: 3.65%  
-- Flow 3:  
Average throughput: 29.89 Mbit/s  
95th percentile per-packet one-way delay: 47.690 ms  
Loss rate: 4.61%

Run 9: Report of FillP — Data Link



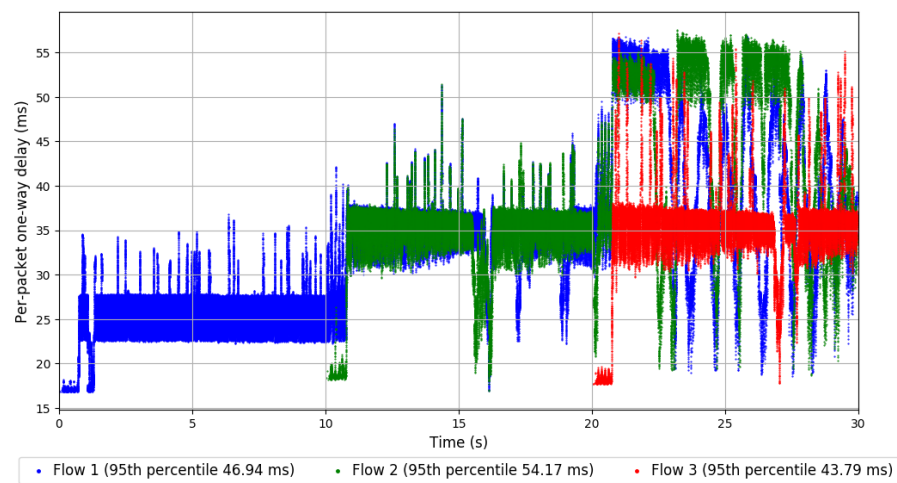
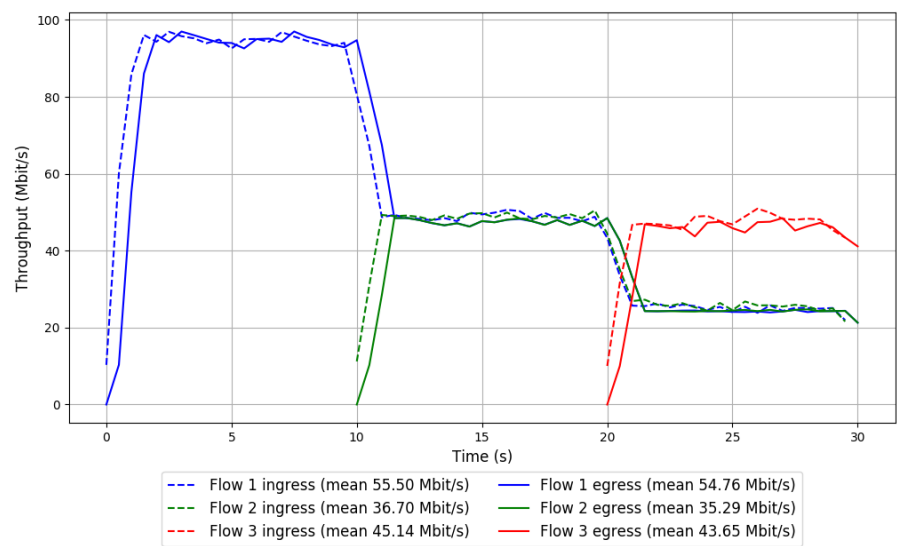
Run 10: Statistics of FillP

Start at: 2018-07-10 23:25:59  
End at: 2018-07-10 23:26:29  
Local clock offset: 2.038 ms  
Remote clock offset: -12.589 ms

# Below is generated by plot.py at 2018-07-10 23:51:06  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.70 Mbit/s  
95th percentile per-packet one-way delay: 52.016 ms  
Loss rate: 2.41%  
-- Flow 1:  
Average throughput: 54.76 Mbit/s  
95th percentile per-packet one-way delay: 46.943 ms  
Loss rate: 1.40%  
-- Flow 2:  
Average throughput: 35.29 Mbit/s  
95th percentile per-packet one-way delay: 54.167 ms  
Loss rate: 3.96%  
-- Flow 3:  
Average throughput: 43.65 Mbit/s  
95th percentile per-packet one-way delay: 43.793 ms  
Loss rate: 3.64%



Run 10: Report of FillP — Data Link

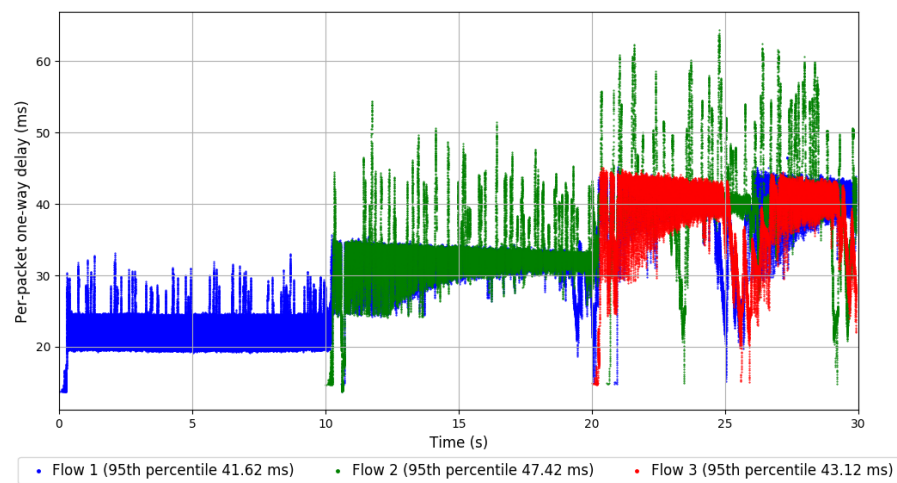
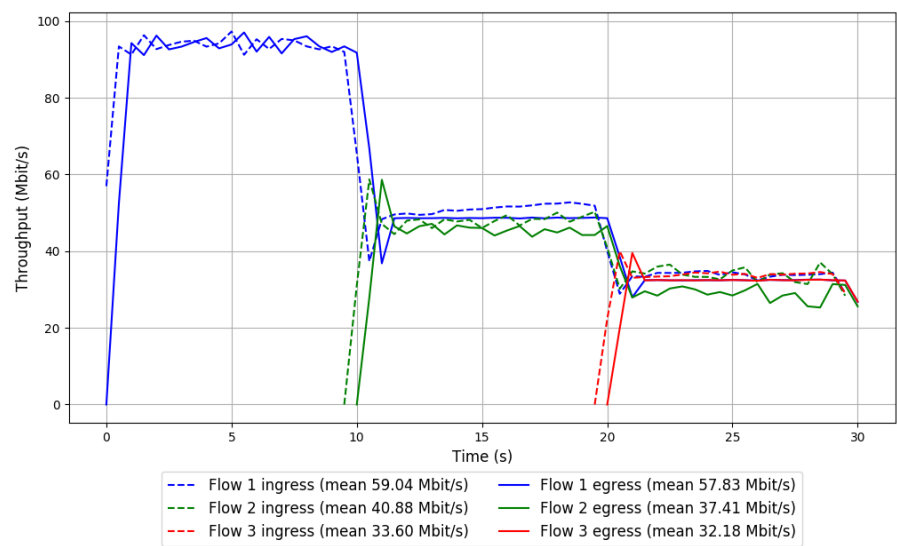


Run 1: Statistics of FillP-Sheep

Start at: 2018-07-10 20:28:00  
End at: 2018-07-10 20:28:30  
Local clock offset: -8.719 ms  
Remote clock offset: -12.655 ms

# Below is generated by plot.py at 2018-07-10 23:51:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.39 Mbit/s  
95th percentile per-packet one-way delay: 42.597 ms  
Loss rate: 4.24%  
-- Flow 1:  
Average throughput: 57.83 Mbit/s  
95th percentile per-packet one-way delay: 41.617 ms  
Loss rate: 2.16%  
-- Flow 2:  
Average throughput: 37.41 Mbit/s  
95th percentile per-packet one-way delay: 47.423 ms  
Loss rate: 8.65%  
-- Flow 3:  
Average throughput: 32.18 Mbit/s  
95th percentile per-packet one-way delay: 43.123 ms  
Loss rate: 4.47%

Run 1: Report of FillP-Sheep — Data Link

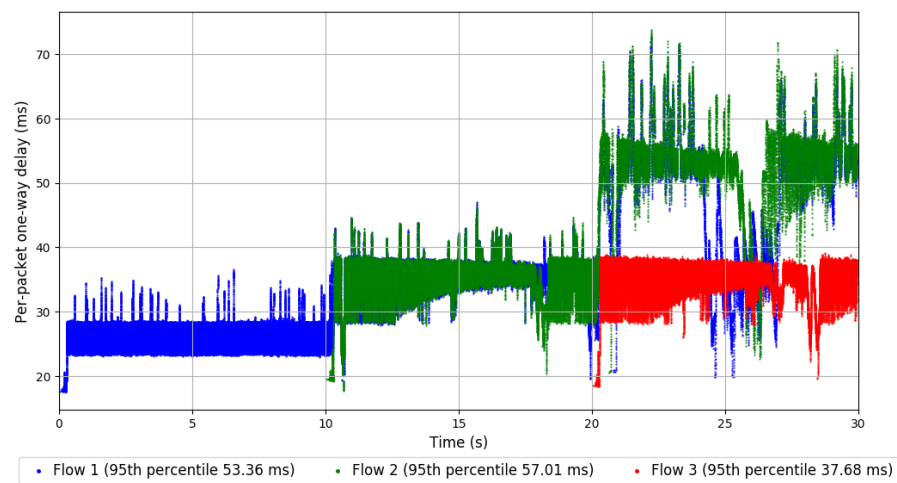
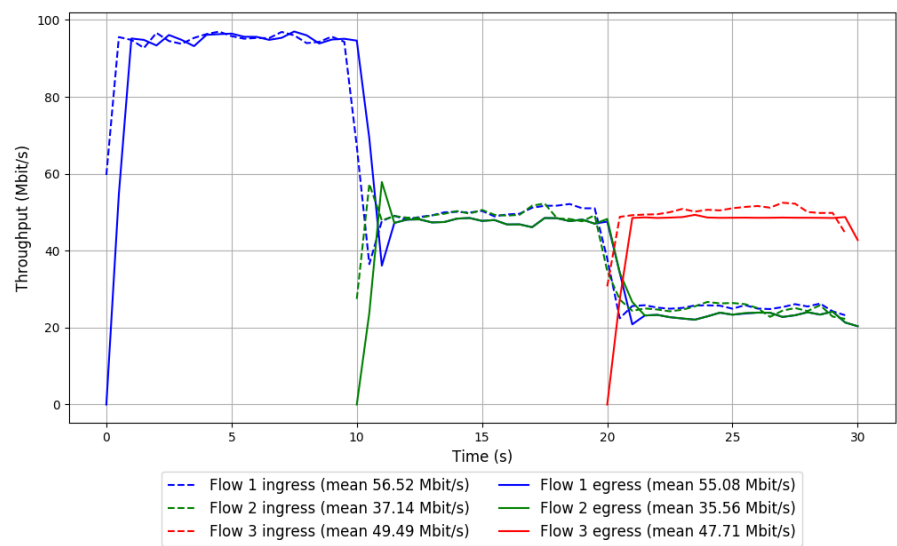


Run 2: Statistics of FillP-Sheep

Start at: 2018-07-10 20:48:40  
End at: 2018-07-10 20:49:10  
Local clock offset: 2.375 ms  
Remote clock offset: -6.713 ms

# Below is generated by plot.py at 2018-07-10 23:51:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.53 Mbit/s  
95th percentile per-packet one-way delay: 54.321 ms  
Loss rate: 3.34%  
-- Flow 1:  
Average throughput: 55.08 Mbit/s  
95th percentile per-packet one-way delay: 53.364 ms  
Loss rate: 2.69%  
-- Flow 2:  
Average throughput: 35.56 Mbit/s  
95th percentile per-packet one-way delay: 57.013 ms  
Loss rate: 4.47%  
-- Flow 3:  
Average throughput: 47.71 Mbit/s  
95th percentile per-packet one-way delay: 37.679 ms  
Loss rate: 3.91%

Run 2: Report of FillP-Sheep — Data Link

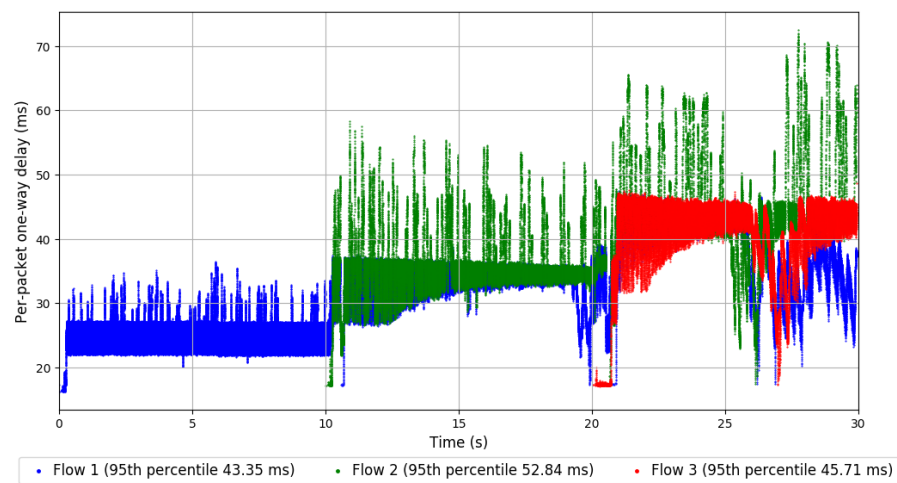
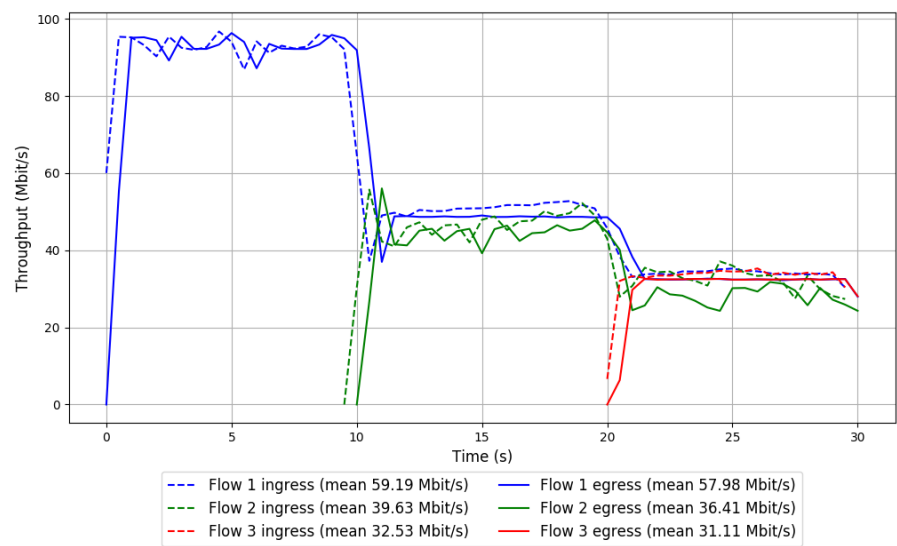


Run 3: Statistics of FillP-Sheep

Start at: 2018-07-10 21:09:15  
End at: 2018-07-10 21:09:45  
Local clock offset: 1.049 ms  
Remote clock offset: -7.554 ms

# Below is generated by plot.py at 2018-07-10 23:51:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.51 Mbit/s  
95th percentile per-packet one-way delay: 45.238 ms  
Loss rate: 4.12%  
-- Flow 1:  
Average throughput: 57.98 Mbit/s  
95th percentile per-packet one-way delay: 43.349 ms  
Loss rate: 2.13%  
-- Flow 2:  
Average throughput: 36.41 Mbit/s  
95th percentile per-packet one-way delay: 52.844 ms  
Loss rate: 8.33%  
-- Flow 3:  
Average throughput: 31.11 Mbit/s  
95th percentile per-packet one-way delay: 45.711 ms  
Loss rate: 4.72%

Run 3: Report of FillP-Sheep — Data Link



Run 4: Statistics of FillP-Sheep

Start at: 2018-07-10 21:29:46

End at: 2018-07-10 21:30:16

Local clock offset: 0.155 ms

Remote clock offset: -6.56 ms

# Below is generated by plot.py at 2018-07-10 23:51:45

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.06 Mbit/s

95th percentile per-packet one-way delay: 44.594 ms

Loss rate: 4.11%

-- Flow 1:

Average throughput: 57.76 Mbit/s

95th percentile per-packet one-way delay: 43.265 ms

Loss rate: 2.99%

-- Flow 2:

Average throughput: 39.76 Mbit/s

95th percentile per-packet one-way delay: 44.520 ms

Loss rate: 5.14%

-- Flow 3:

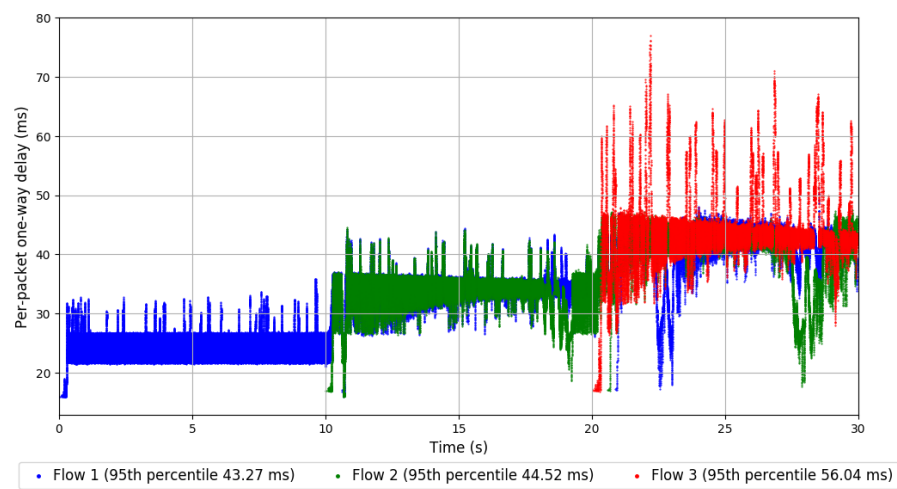
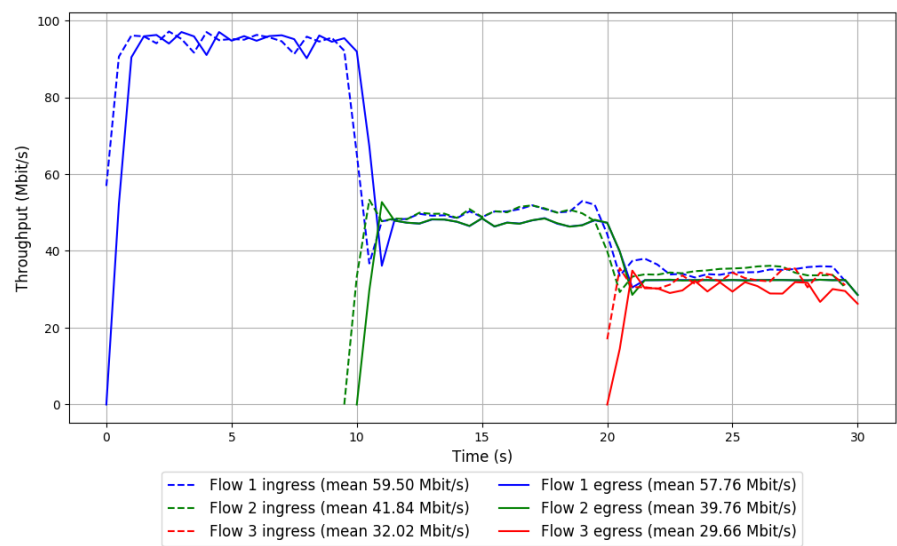
Average throughput: 29.66 Mbit/s

95th percentile per-packet one-way delay: 56.037 ms

Loss rate: 7.70%



Run 4: Report of FillP-Sheep — Data Link



Run 5: Statistics of FillP-Sheep

Start at: 2018-07-10 21:50:17

End at: 2018-07-10 21:50:47

Local clock offset: 2.065 ms

Remote clock offset: -5.69 ms

# Below is generated by plot.py at 2018-07-10 23:51:52

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.52 Mbit/s

95th percentile per-packet one-way delay: 53.522 ms

Loss rate: 3.51%

-- Flow 1:

Average throughput: 56.28 Mbit/s

95th percentile per-packet one-way delay: 51.352 ms

Loss rate: 2.54%

-- Flow 2:

Average throughput: 35.37 Mbit/s

95th percentile per-packet one-way delay: 55.529 ms

Loss rate: 4.70%

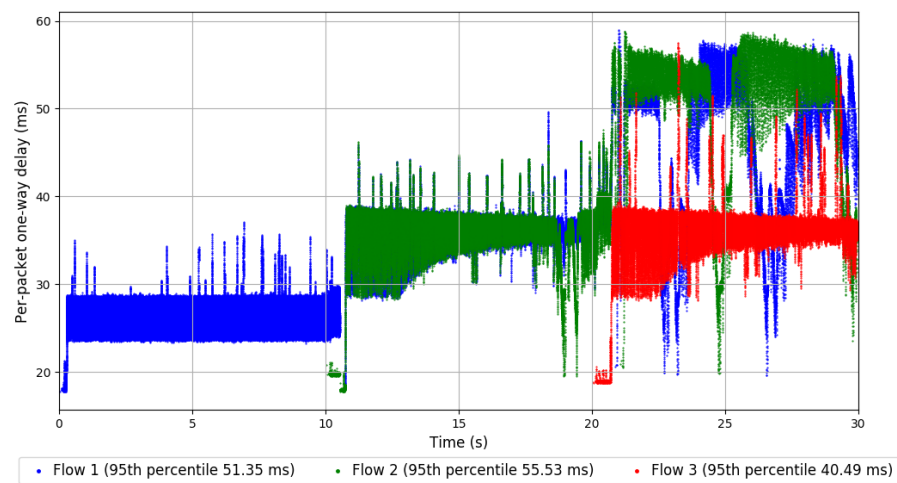
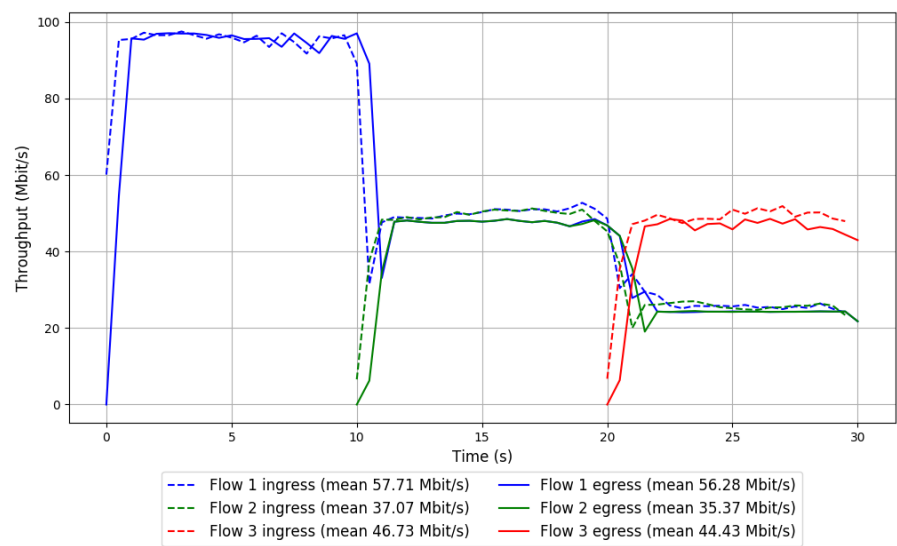
-- Flow 3:

Average throughput: 44.43 Mbit/s

95th percentile per-packet one-way delay: 40.489 ms

Loss rate: 5.24%

Run 5: Report of FillP-Sheep — Data Link

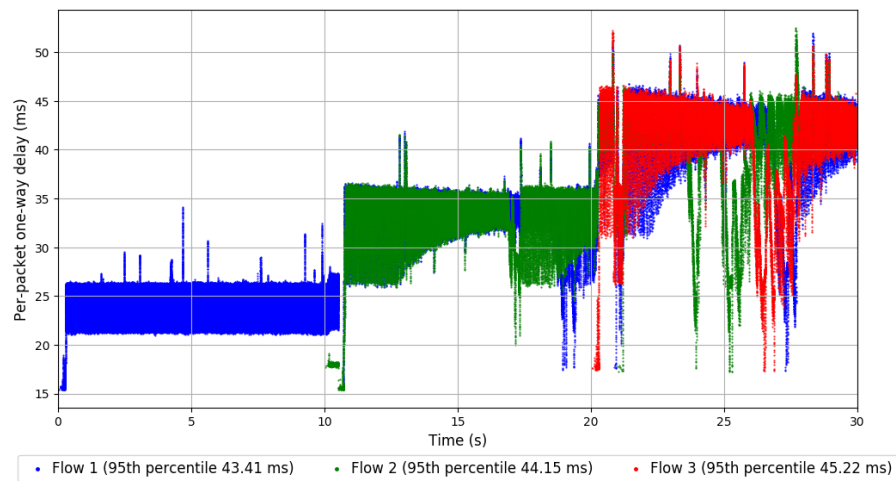
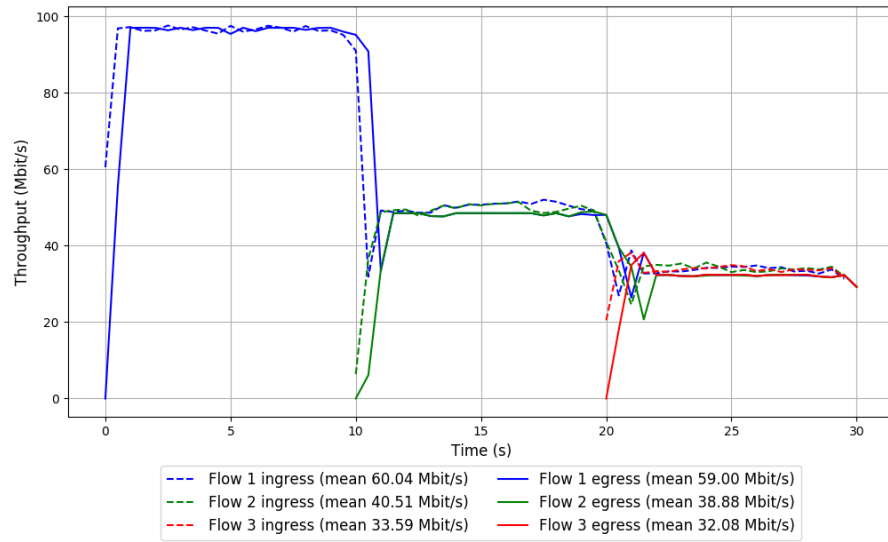


Run 6: Statistics of FillP-Sheep

Start at: 2018-07-10 22:10:35  
End at: 2018-07-10 22:11:05  
Local clock offset: 0.284 ms  
Remote clock offset: -3.923 ms

# Below is generated by plot.py at 2018-07-10 23:52:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.48 Mbit/s  
95th percentile per-packet one-way delay: 44.179 ms  
Loss rate: 2.80%  
-- Flow 1:  
Average throughput: 59.00 Mbit/s  
95th percentile per-packet one-way delay: 43.409 ms  
Loss rate: 1.84%  
-- Flow 2:  
Average throughput: 38.88 Mbit/s  
95th percentile per-packet one-way delay: 44.152 ms  
Loss rate: 4.16%  
-- Flow 3:  
Average throughput: 32.08 Mbit/s  
95th percentile per-packet one-way delay: 45.216 ms  
Loss rate: 4.69%

## Run 6: Report of FillP-Sheep — Data Link

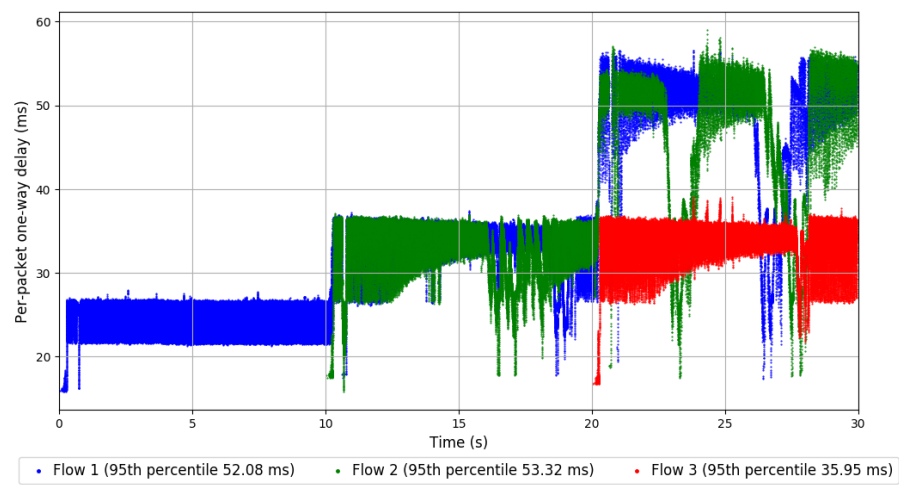
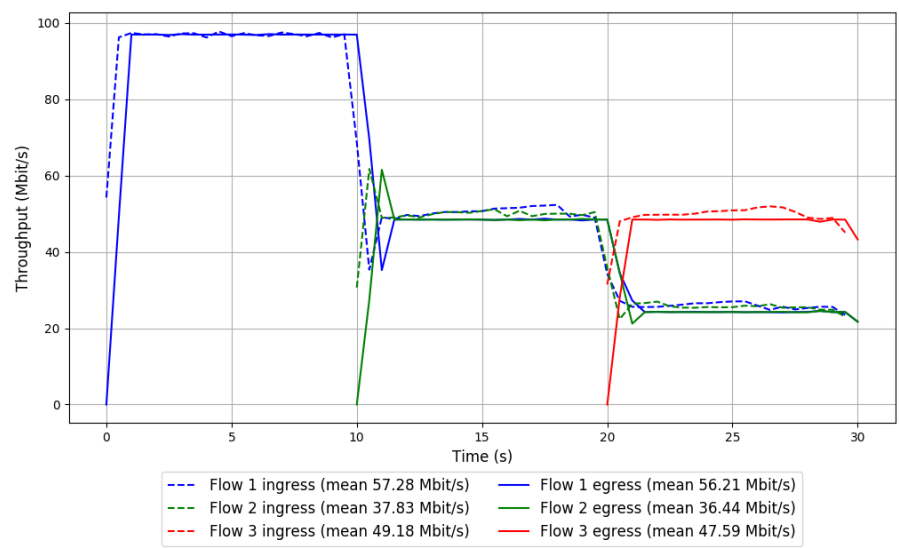


Run 7: Statistics of FillP-Sheep

Start at: 2018-07-10 22:30:53  
End at: 2018-07-10 22:31:23  
Local clock offset: 0.998 ms  
Remote clock offset: -5.573 ms

# Below is generated by plot.py at 2018-07-10 23:52:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.21 Mbit/s  
95th percentile per-packet one-way delay: 52.267 ms  
Loss rate: 2.74%  
-- Flow 1:  
Average throughput: 56.21 Mbit/s  
95th percentile per-packet one-way delay: 52.077 ms  
Loss rate: 2.00%  
-- Flow 2:  
Average throughput: 36.44 Mbit/s  
95th percentile per-packet one-way delay: 53.319 ms  
Loss rate: 3.89%  
-- Flow 3:  
Average throughput: 47.59 Mbit/s  
95th percentile per-packet one-way delay: 35.953 ms  
Loss rate: 3.53%

Run 7: Report of FillP-Sheep — Data Link



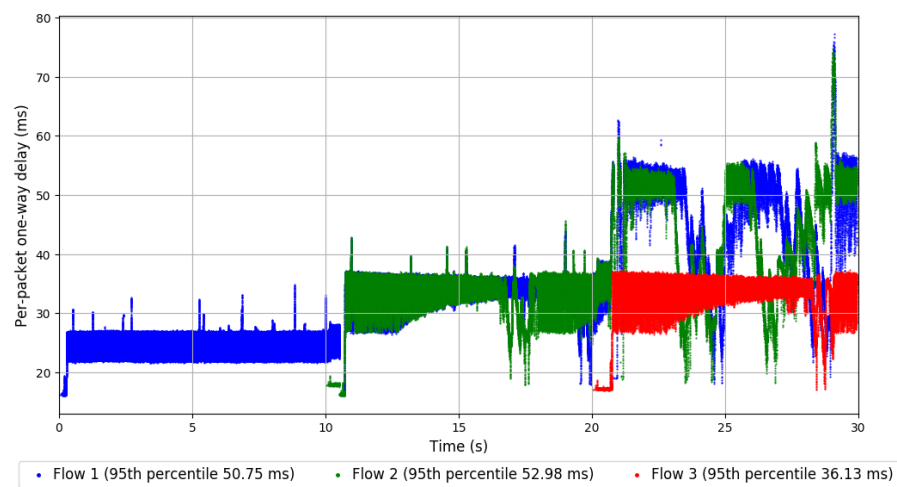
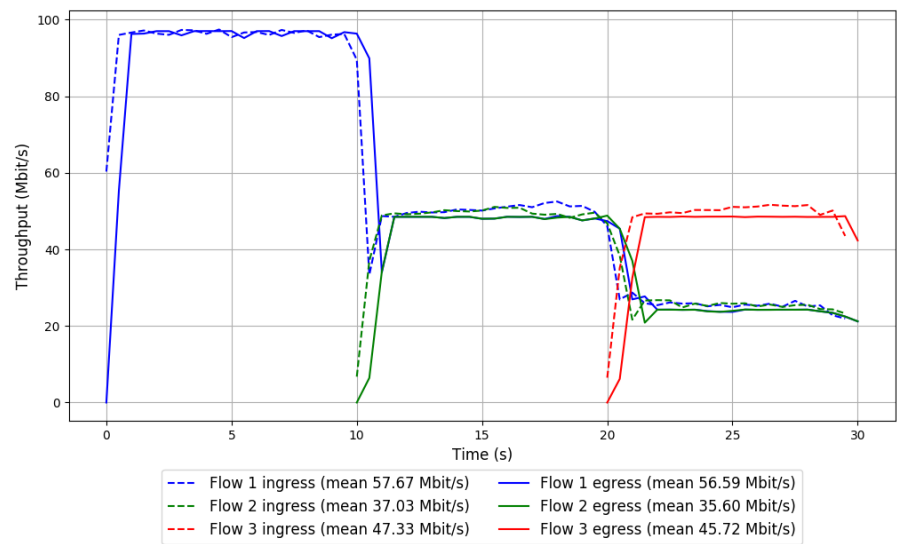
Run 8: Statistics of FillP-Sheep

Start at: 2018-07-10 22:51:26  
End at: 2018-07-10 22:51:56  
Local clock offset: 2.26 ms  
Remote clock offset: -6.215 ms

# Below is generated by plot.py at 2018-07-10 23:52:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.42 Mbit/s  
95th percentile per-packet one-way delay: 51.430 ms  
Loss rate: 2.74%  
-- Flow 1:  
Average throughput: 56.59 Mbit/s  
95th percentile per-packet one-way delay: 50.747 ms  
Loss rate: 1.97%  
-- Flow 2:  
Average throughput: 35.60 Mbit/s  
95th percentile per-packet one-way delay: 52.981 ms  
Loss rate: 3.96%  
-- Flow 3:  
Average throughput: 45.72 Mbit/s  
95th percentile per-packet one-way delay: 36.126 ms  
Loss rate: 3.70%



Run 8: Report of FillP-Sheep — Data Link

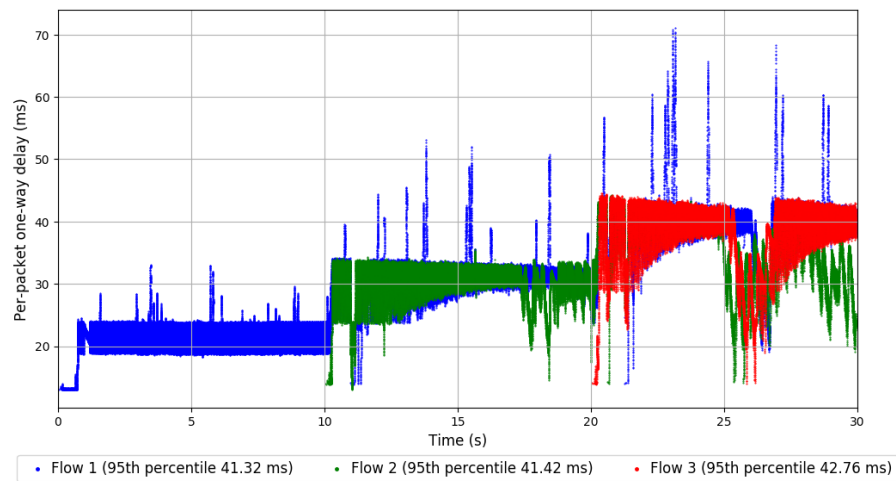
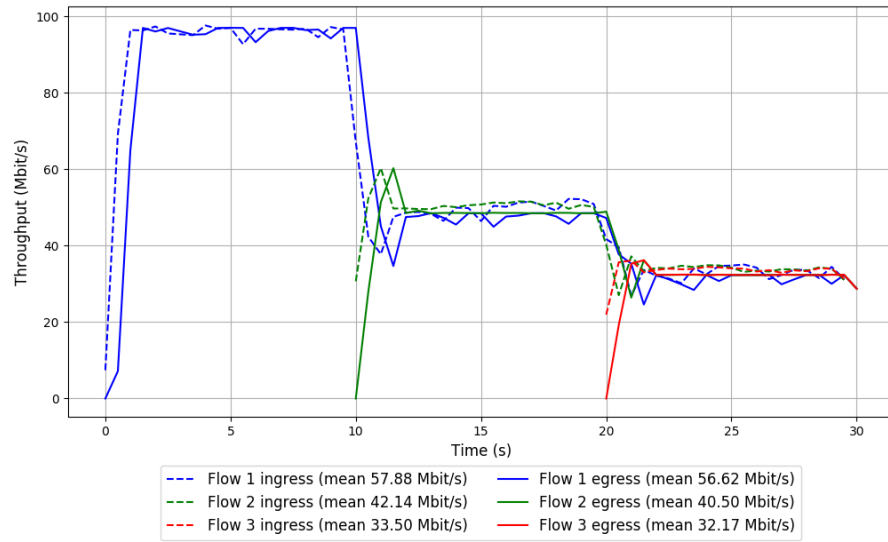


Run 9: Statistics of FillP-Sheep

Start at: 2018-07-10 23:11:32  
End at: 2018-07-10 23:12:02  
Local clock offset: -1.271 ms  
Remote clock offset: -10.573 ms

# Below is generated by plot.py at 2018-07-10 23:52:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.21 Mbit/s  
95th percentile per-packet one-way delay: 41.807 ms  
Loss rate: 3.01%  
-- Flow 1:  
Average throughput: 56.62 Mbit/s  
95th percentile per-packet one-way delay: 41.324 ms  
Loss rate: 2.29%  
-- Flow 2:  
Average throughput: 40.50 Mbit/s  
95th percentile per-packet one-way delay: 41.423 ms  
Loss rate: 4.01%  
-- Flow 3:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 42.756 ms  
Loss rate: 4.19%

# Run 9: Report of FillP-Sheep — Data Link

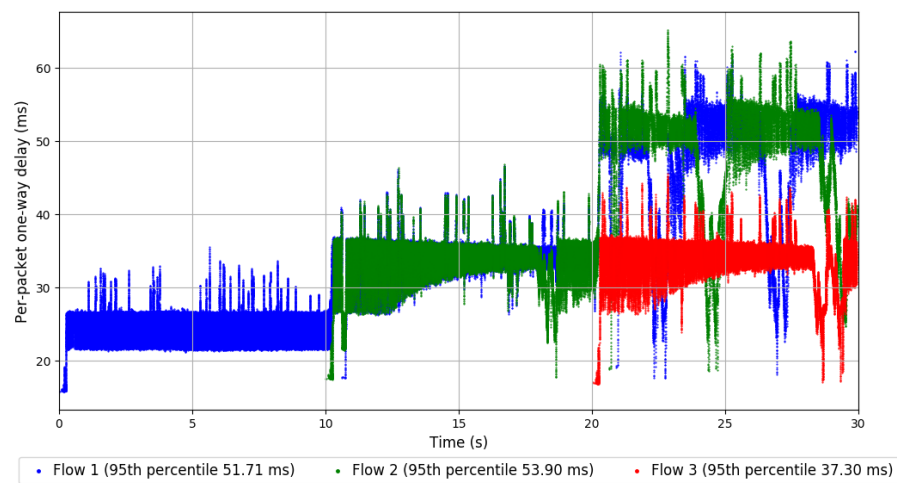
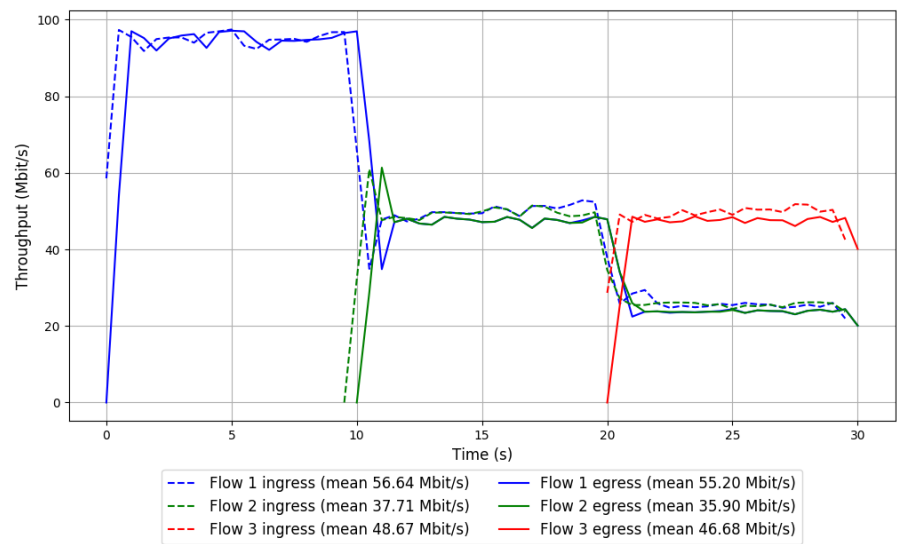


Run 10: Statistics of FillP-Sheep

Start at: 2018-07-10 23:32:08  
End at: 2018-07-10 23:32:38  
Local clock offset: 0.035 ms  
Remote clock offset: -12.541 ms

# Below is generated by plot.py at 2018-07-10 23:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.54 Mbit/s  
95th percentile per-packet one-way delay: 52.487 ms  
Loss rate: 3.54%  
-- Flow 1:  
Average throughput: 55.20 Mbit/s  
95th percentile per-packet one-way delay: 51.710 ms  
Loss rate: 2.68%  
-- Flow 2:  
Average throughput: 35.90 Mbit/s  
95th percentile per-packet one-way delay: 53.903 ms  
Loss rate: 4.94%  
-- Flow 3:  
Average throughput: 46.68 Mbit/s  
95th percentile per-packet one-way delay: 37.295 ms  
Loss rate: 4.41%

Run 10: Report of FillP-Sheep — Data Link

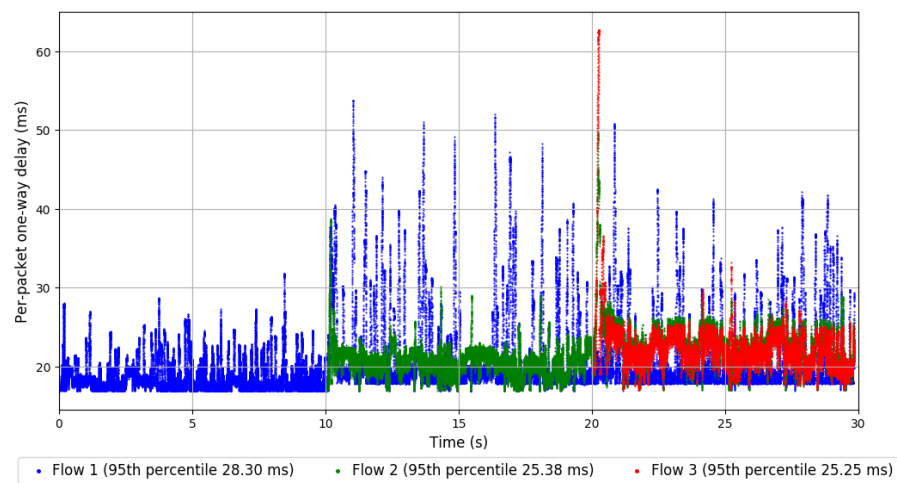
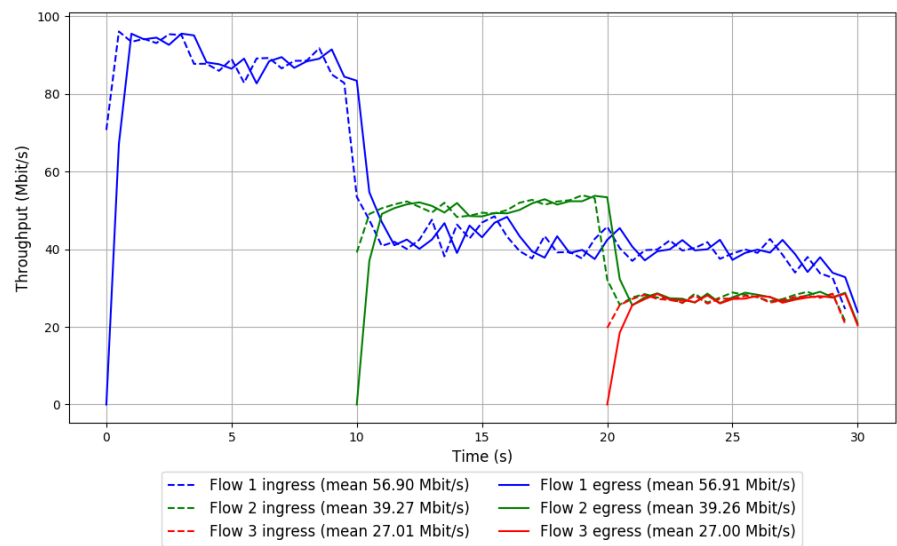


Run 1: Statistics of Indigo

Start at: 2018-07-10 20:33:51  
End at: 2018-07-10 20:34:21  
Local clock offset: 1.411 ms  
Remote clock offset: -5.289 ms

# Below is generated by plot.py at 2018-07-10 23:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.87 Mbit/s  
95th percentile per-packet one-way delay: 26.467 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 56.91 Mbit/s  
95th percentile per-packet one-way delay: 28.299 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.26 Mbit/s  
95th percentile per-packet one-way delay: 25.375 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 27.00 Mbit/s  
95th percentile per-packet one-way delay: 25.248 ms  
Loss rate: 0.31%

Run 1: Report of Indigo — Data Link



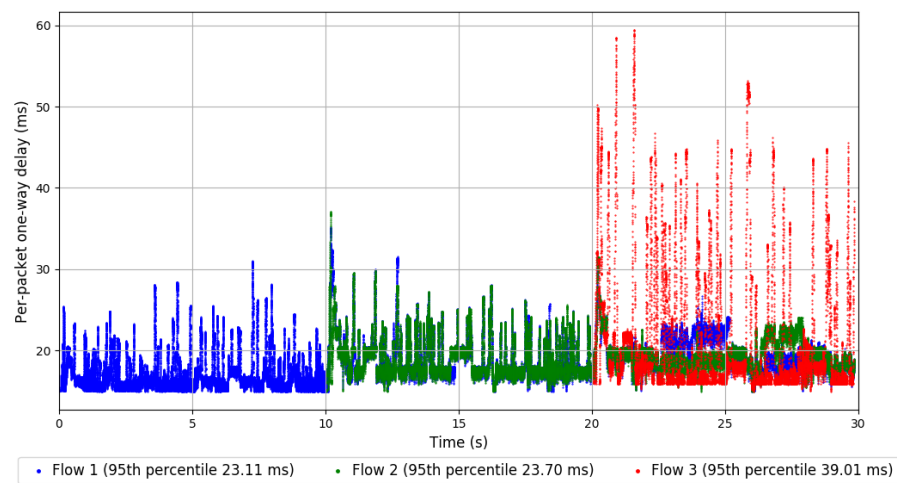
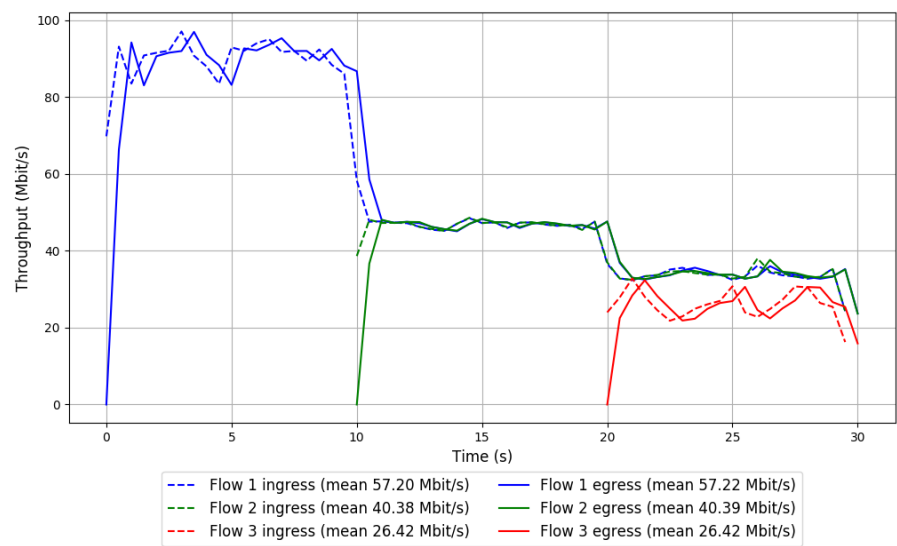
Run 2: Statistics of Indigo

Start at: 2018-07-10 20:54:34  
End at: 2018-07-10 20:55:04  
Local clock offset: -0.248 ms  
Remote clock offset: -7.046 ms

# Below is generated by plot.py at 2018-07-10 23:53:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.73 Mbit/s  
95th percentile per-packet one-way delay: 23.873 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 57.22 Mbit/s  
95th percentile per-packet one-way delay: 23.110 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.39 Mbit/s  
95th percentile per-packet one-way delay: 23.705 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 26.42 Mbit/s  
95th percentile per-packet one-way delay: 39.012 ms  
Loss rate: 0.28%



Run 2: Report of Indigo — Data Link

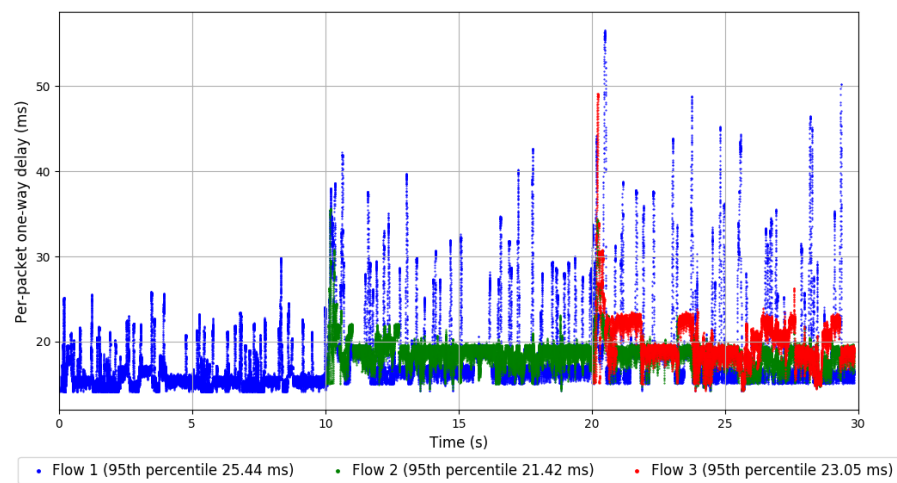
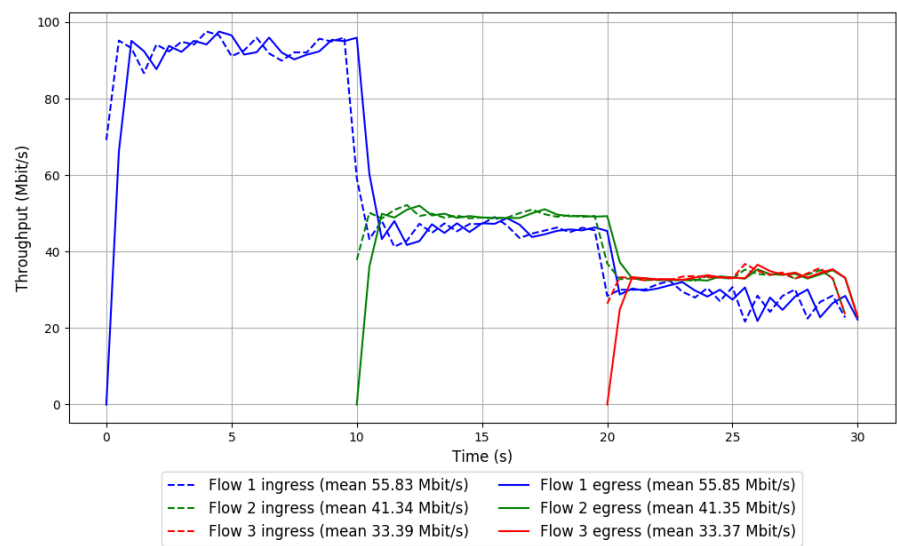


Run 3: Statistics of Indigo

Start at: 2018-07-10 21:15:07  
End at: 2018-07-10 21:15:37  
Local clock offset: -1.081 ms  
Remote clock offset: -7.122 ms

# Below is generated by plot.py at 2018-07-10 23:53:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.30 Mbit/s  
95th percentile per-packet one-way delay: 23.024 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 55.85 Mbit/s  
95th percentile per-packet one-way delay: 25.436 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 41.35 Mbit/s  
95th percentile per-packet one-way delay: 21.424 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 33.37 Mbit/s  
95th percentile per-packet one-way delay: 23.046 ms  
Loss rate: 0.30%

Run 3: Report of Indigo — Data Link

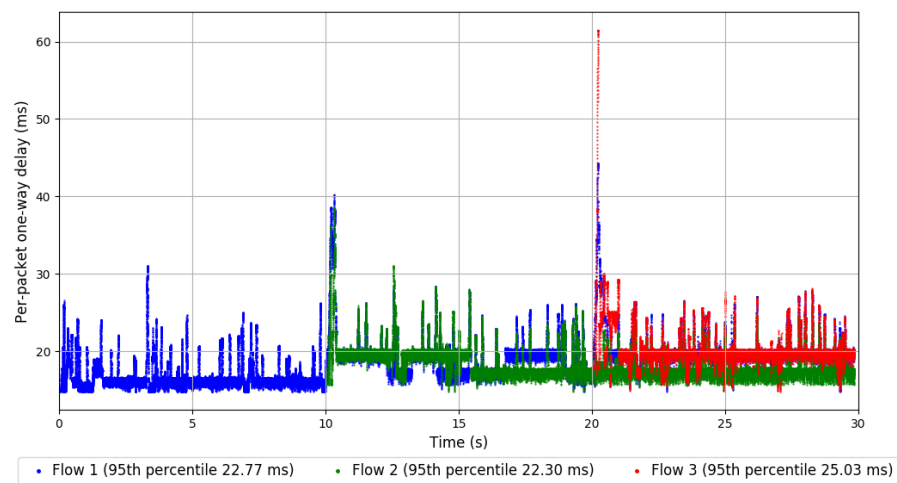
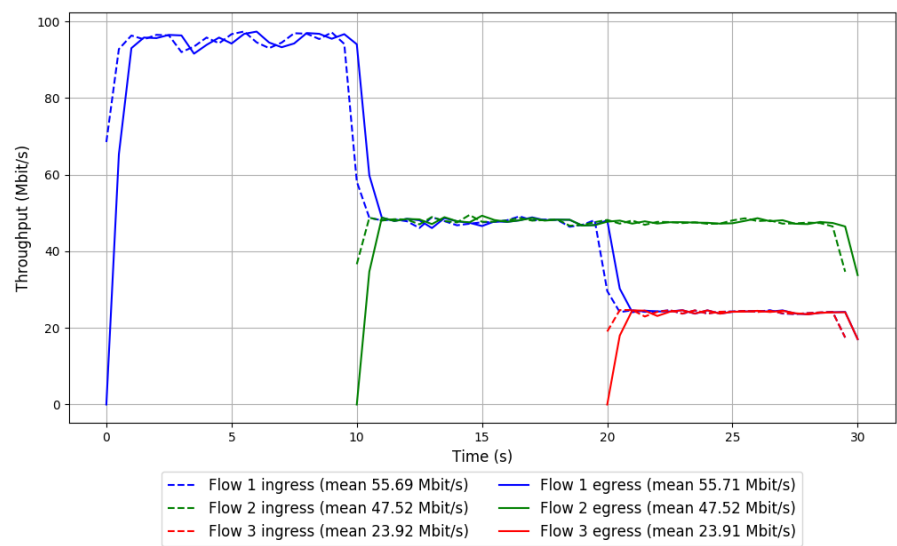


Run 4: Statistics of Indigo

Start at: 2018-07-10 21:35:37  
End at: 2018-07-10 21:36:07  
Local clock offset: -0.699 ms  
Remote clock offset: -5.898 ms

# Below is generated by plot.py at 2018-07-10 23:53:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.14 Mbit/s  
95th percentile per-packet one-way delay: 22.986 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 55.71 Mbit/s  
95th percentile per-packet one-way delay: 22.771 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 47.52 Mbit/s  
95th percentile per-packet one-way delay: 22.295 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 23.91 Mbit/s  
95th percentile per-packet one-way delay: 25.030 ms  
Loss rate: 0.34%

Run 4: Report of Indigo — Data Link

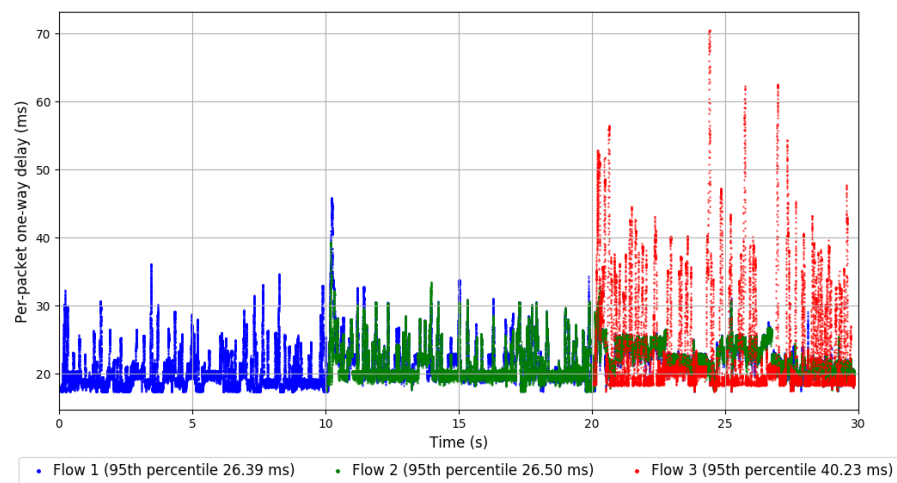
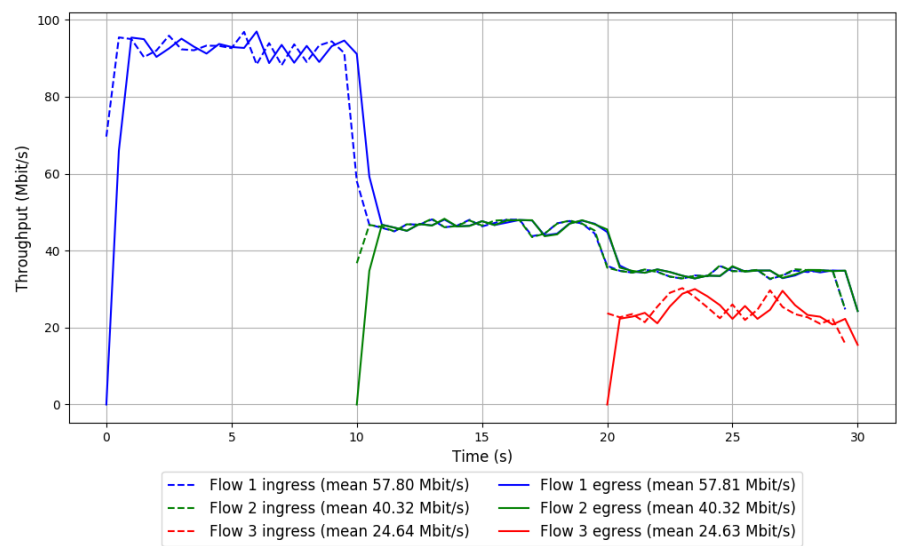


Run 5: Statistics of Indigo

Start at: 2018-07-10 21:56:08  
End at: 2018-07-10 21:56:38  
Local clock offset: 2.41 ms  
Remote clock offset: -4.258 ms

# Below is generated by plot.py at 2018-07-10 23:53:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.70 Mbit/s  
95th percentile per-packet one-way delay: 27.685 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 57.81 Mbit/s  
95th percentile per-packet one-way delay: 26.389 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.32 Mbit/s  
95th percentile per-packet one-way delay: 26.497 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 24.63 Mbit/s  
95th percentile per-packet one-way delay: 40.228 ms  
Loss rate: 0.29%

Run 5: Report of Indigo — Data Link



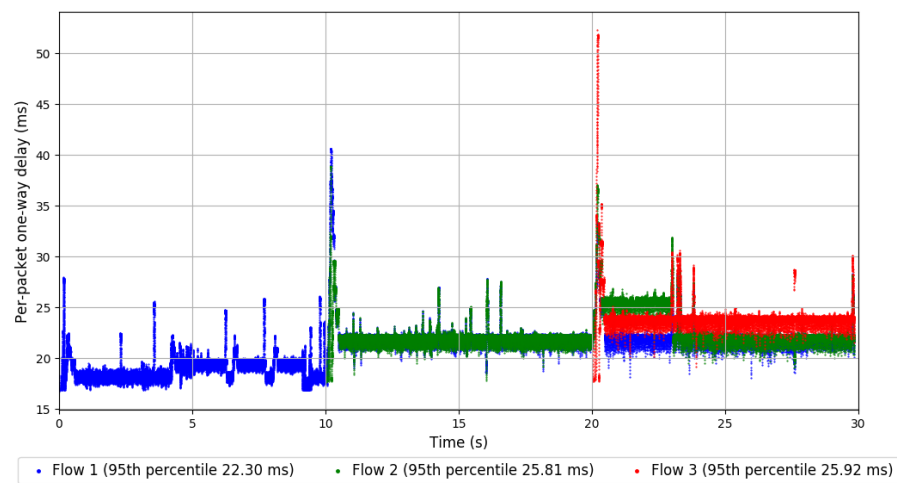
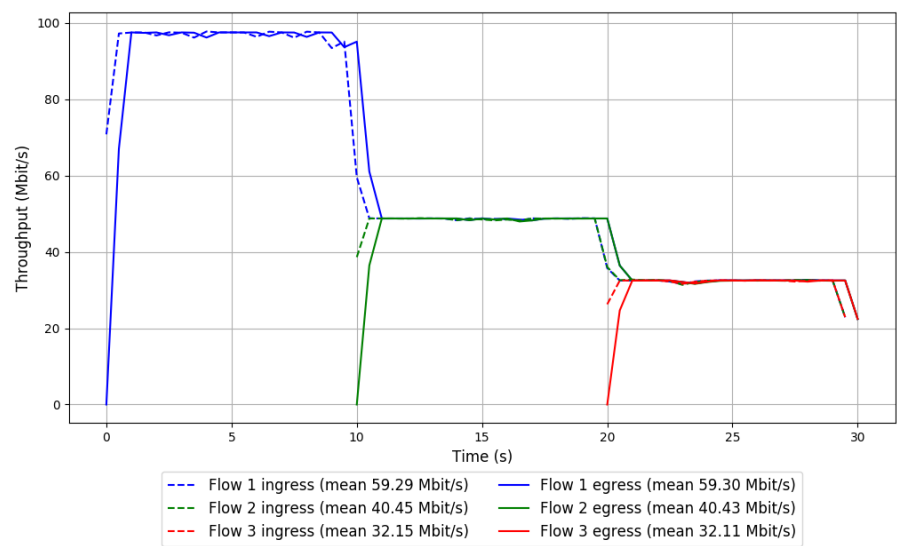
Run 6: Statistics of Indigo

Start at: 2018-07-10 22:16:30  
End at: 2018-07-10 22:17:00  
Local clock offset: 1.31 ms  
Remote clock offset: -3.949 ms

# Below is generated by plot.py at 2018-07-10 23:53:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.73 Mbit/s  
95th percentile per-packet one-way delay: 25.300 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.30 Mbit/s  
95th percentile per-packet one-way delay: 22.305 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.43 Mbit/s  
95th percentile per-packet one-way delay: 25.810 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 32.11 Mbit/s  
95th percentile per-packet one-way delay: 25.917 ms  
Loss rate: 0.33%



Run 6: Report of Indigo — Data Link

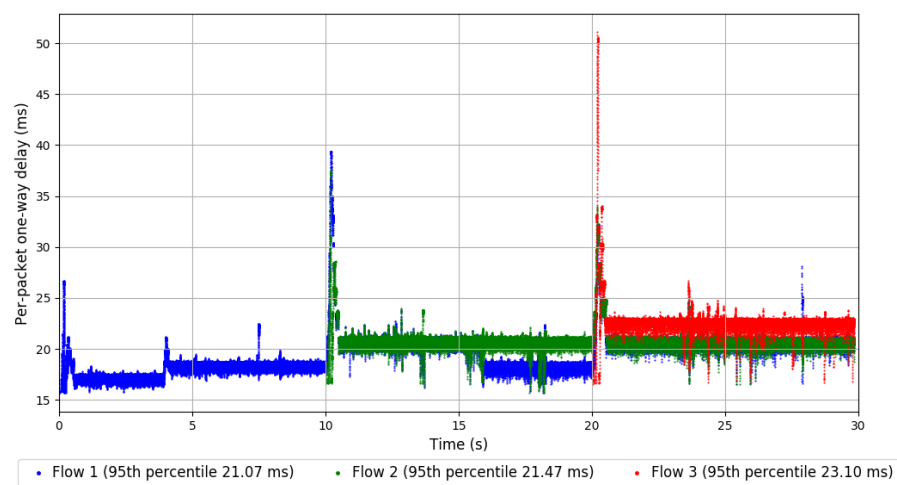
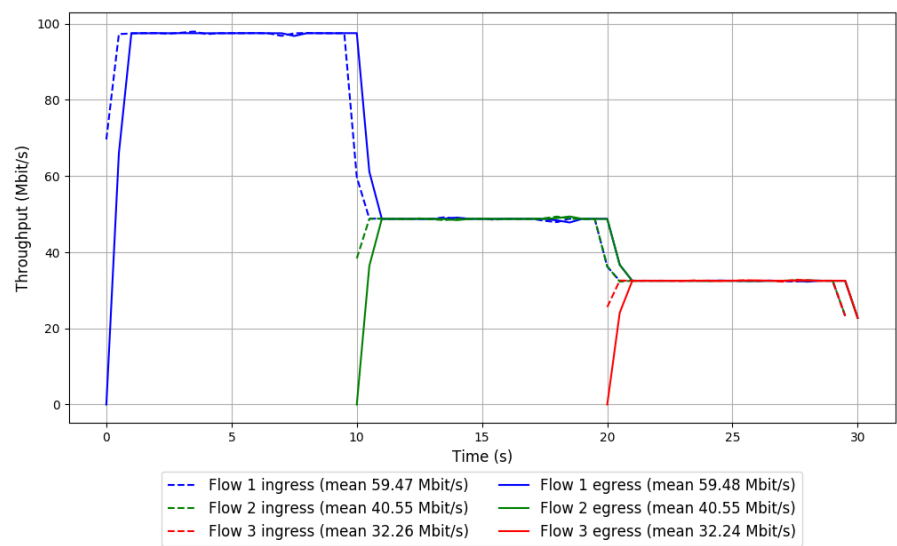


Run 7: Statistics of Indigo

Start at: 2018-07-10 22:36:49  
End at: 2018-07-10 22:37:19  
Local clock offset: 1.568 ms  
Remote clock offset: -5.417 ms

# Below is generated by plot.py at 2018-07-10 23:53:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.02 Mbit/s  
95th percentile per-packet one-way delay: 22.791 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 59.48 Mbit/s  
95th percentile per-packet one-way delay: 21.066 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.55 Mbit/s  
95th percentile per-packet one-way delay: 21.473 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 32.24 Mbit/s  
95th percentile per-packet one-way delay: 23.098 ms  
Loss rate: 0.31%

Run 7: Report of Indigo — Data Link

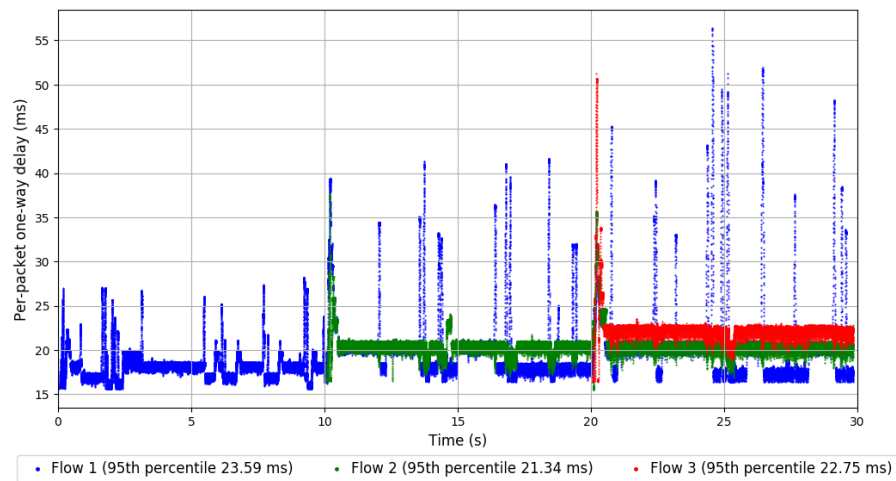
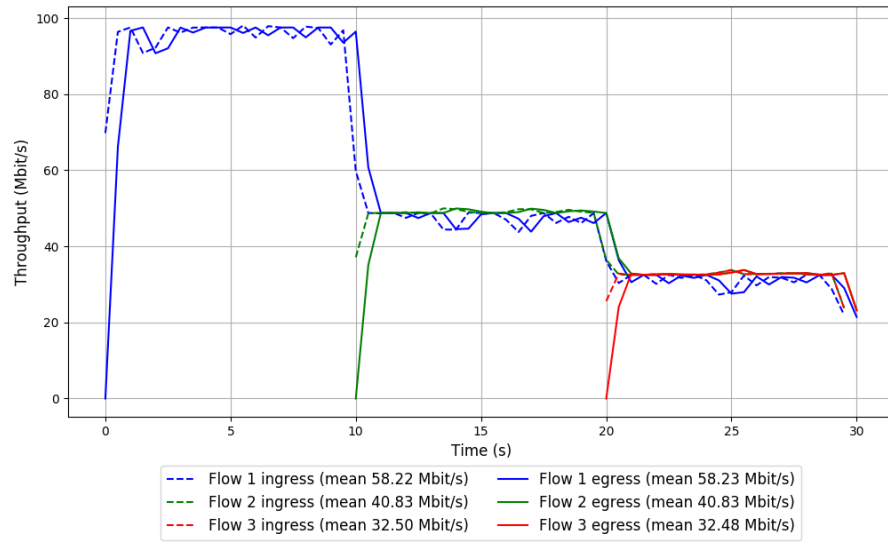


Run 8: Statistics of Indigo

Start at: 2018-07-10 22:57:16  
End at: 2018-07-10 22:57:46  
Local clock offset: -0.052 ms  
Remote clock offset: -8.636 ms

# Below is generated by plot.py at 2018-07-10 23:54:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.02 Mbit/s  
95th percentile per-packet one-way delay: 22.839 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 58.23 Mbit/s  
95th percentile per-packet one-way delay: 23.594 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.83 Mbit/s  
95th percentile per-packet one-way delay: 21.335 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 22.754 ms  
Loss rate: 0.32%

## Run 8: Report of Indigo — Data Link

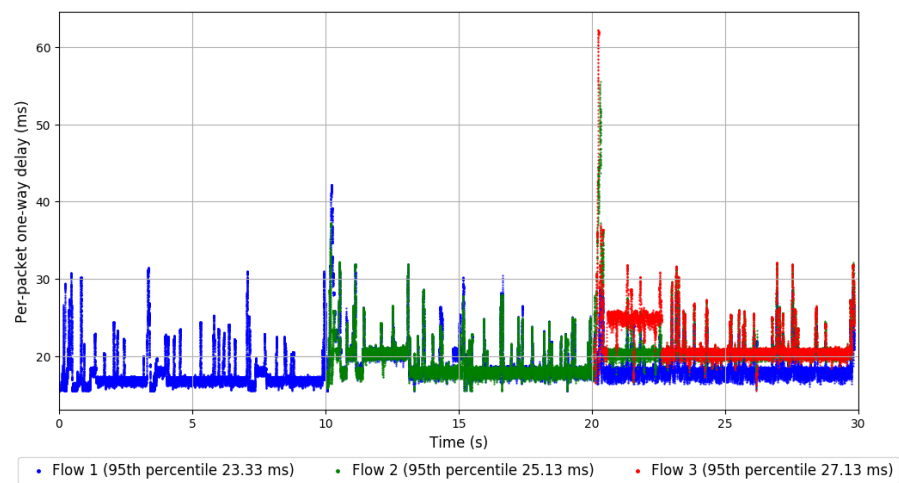
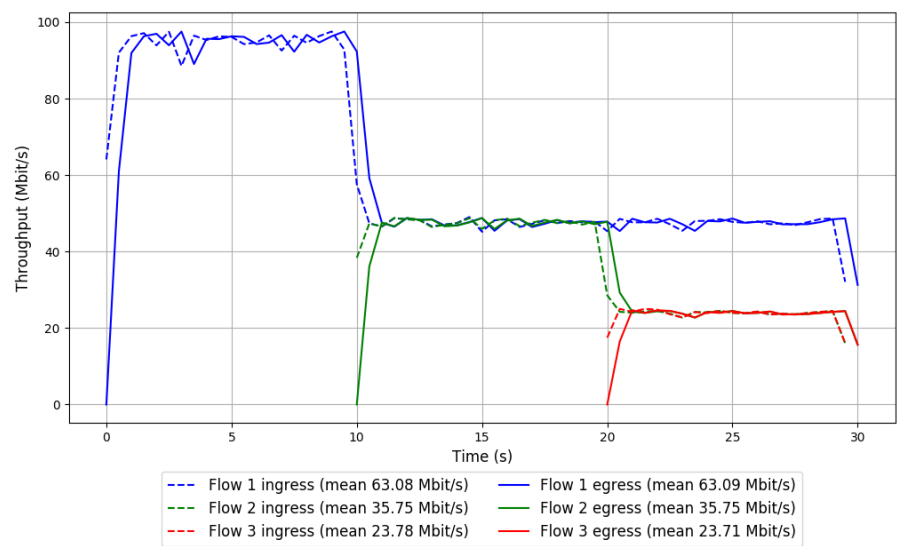


Run 9: Statistics of Indigo

Start at: 2018-07-10 23:17:22  
End at: 2018-07-10 23:17:52  
Local clock offset: -0.215 ms  
Remote clock offset: -12.58 ms

# Below is generated by plot.py at 2018-07-10 23:54:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.63 Mbit/s  
95th percentile per-packet one-way delay: 25.002 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 63.09 Mbit/s  
95th percentile per-packet one-way delay: 23.328 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 35.75 Mbit/s  
95th percentile per-packet one-way delay: 25.132 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 23.71 Mbit/s  
95th percentile per-packet one-way delay: 27.132 ms  
Loss rate: 0.57%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-07-10 23:37:58

End at: 2018-07-10 23:38:28

Local clock offset: 0.797 ms

Remote clock offset: -9.46 ms

# Below is generated by plot.py at 2018-07-10 23:54:16

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.33 Mbit/s

95th percentile per-packet one-way delay: 25.010 ms

Loss rate: 0.14%

-- Flow 1:

Average throughput: 56.37 Mbit/s

95th percentile per-packet one-way delay: 22.352 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 46.50 Mbit/s

95th percentile per-packet one-way delay: 29.362 ms

Loss rate: 0.14%

-- Flow 3:

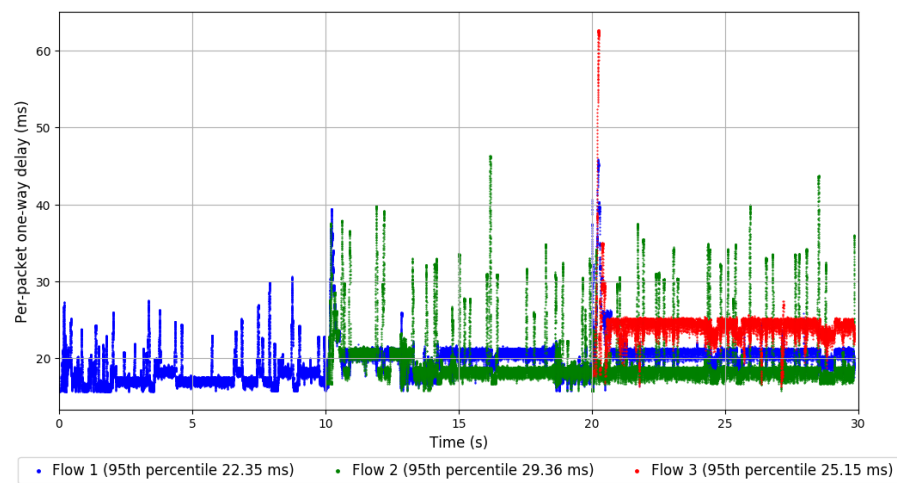
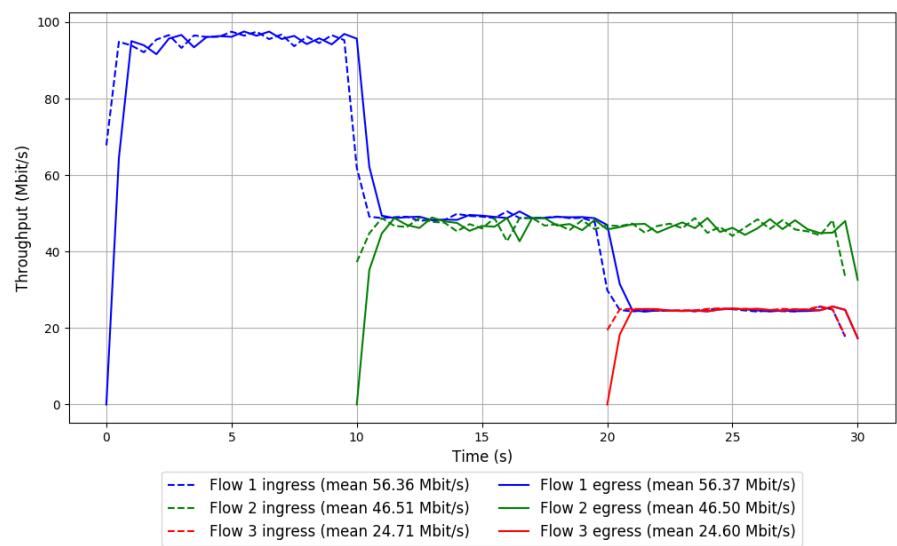
Average throughput: 24.60 Mbit/s

95th percentile per-packet one-way delay: 25.149 ms

Loss rate: 0.69%



Run 10: Report of Indigo — Data Link

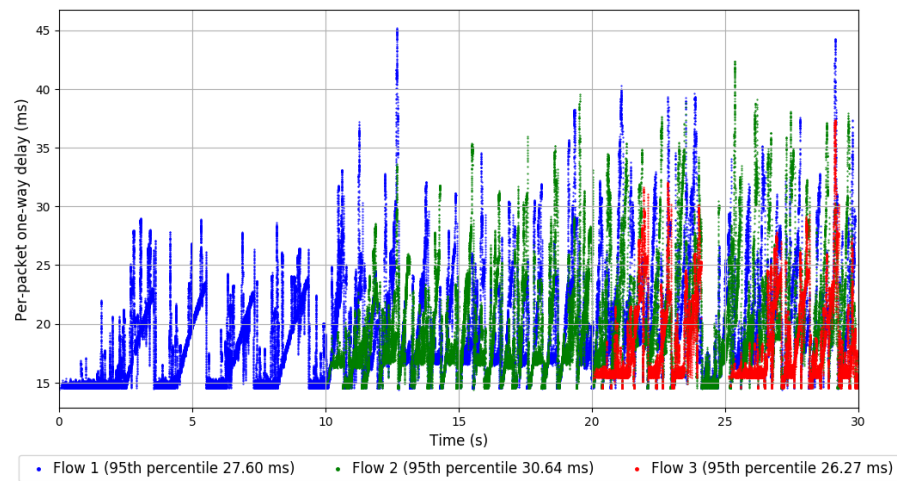
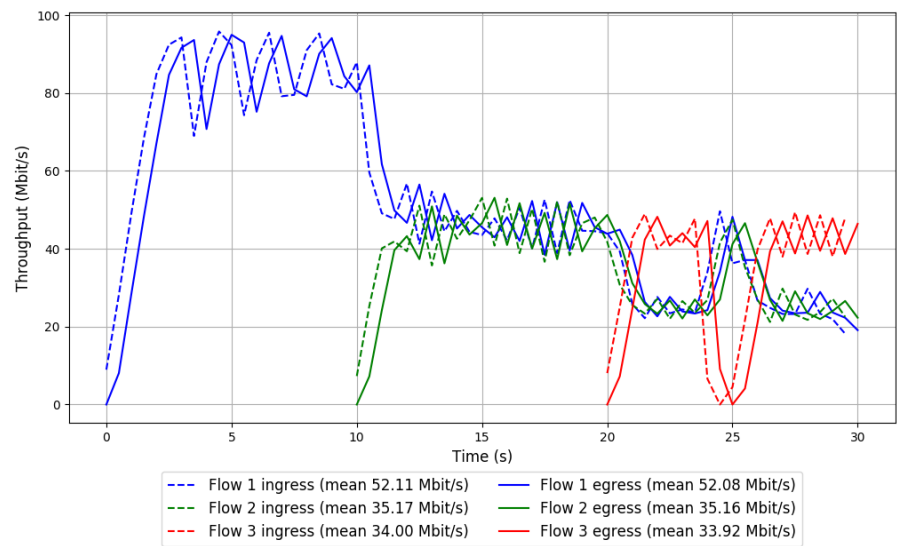


```
Run 1: Statistics of LEDBAT

Start at: 2018-07-10 20:31:24
End at: 2018-07-10 20:31:54
Local clock offset: -0.791 ms
Remote clock offset: -5.21 ms

# Below is generated by plot.py at 2018-07-10 23:54:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.58 Mbit/s
95th percentile per-packet one-way delay: 28.190 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 52.08 Mbit/s
95th percentile per-packet one-way delay: 27.601 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 35.16 Mbit/s
95th percentile per-packet one-way delay: 30.642 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 33.92 Mbit/s
95th percentile per-packet one-way delay: 26.272 ms
Loss rate: 0.47%
```

Run 1: Report of LEDBAT — Data Link

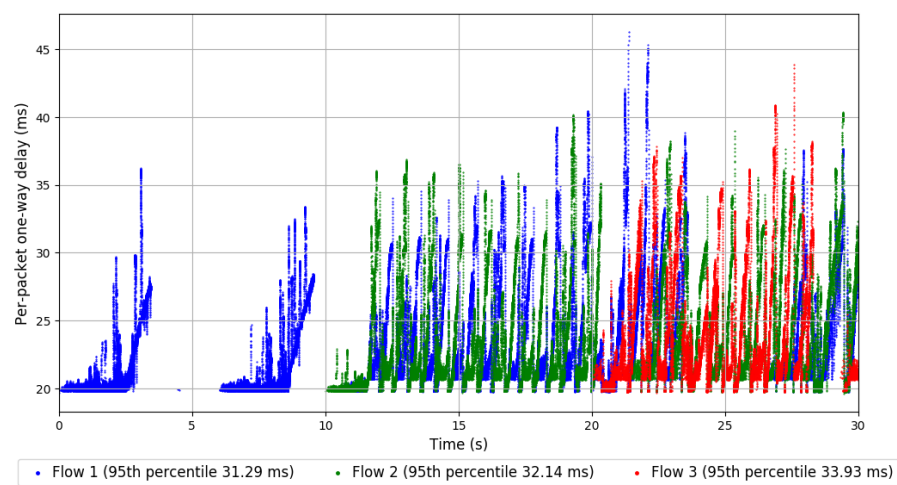
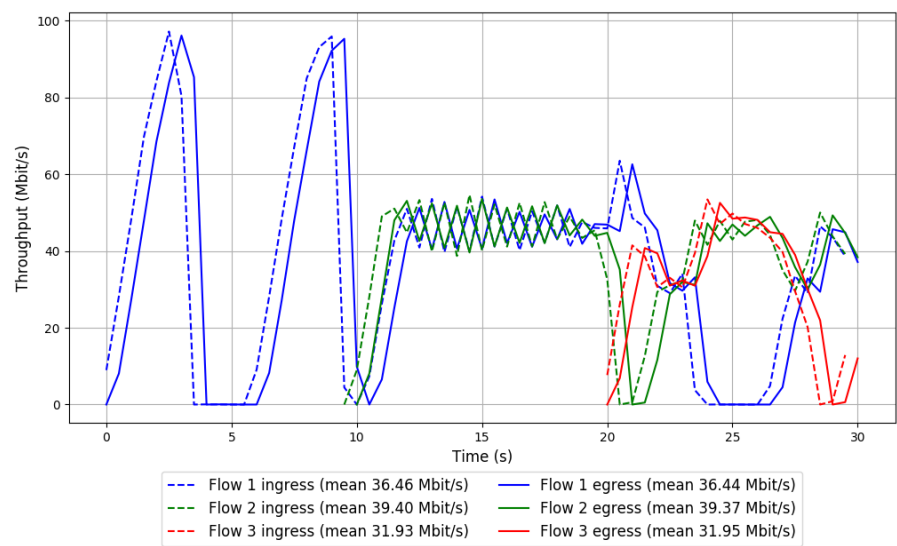


Run 2: Statistics of LEDBAT

Start at: 2018-07-10 20:52:02  
End at: 2018-07-10 20:52:32  
Local clock offset: 3.734 ms  
Remote clock offset: -7.728 ms

# Below is generated by plot.py at 2018-07-10 23:54:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.28 Mbit/s  
95th percentile per-packet one-way delay: 32.012 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 36.44 Mbit/s  
95th percentile per-packet one-way delay: 31.288 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 39.37 Mbit/s  
95th percentile per-packet one-way delay: 32.139 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 31.95 Mbit/s  
95th percentile per-packet one-way delay: 33.928 ms  
Loss rate: 0.20%

Run 2: Report of LEDBAT — Data Link

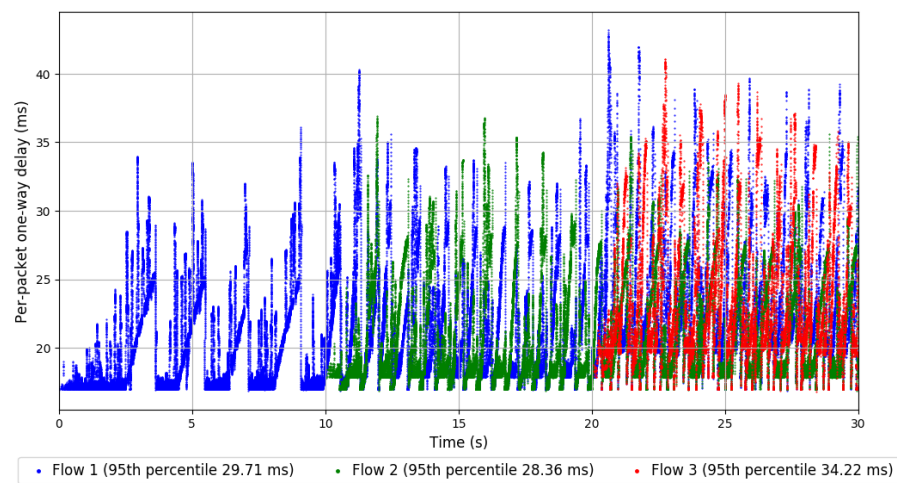
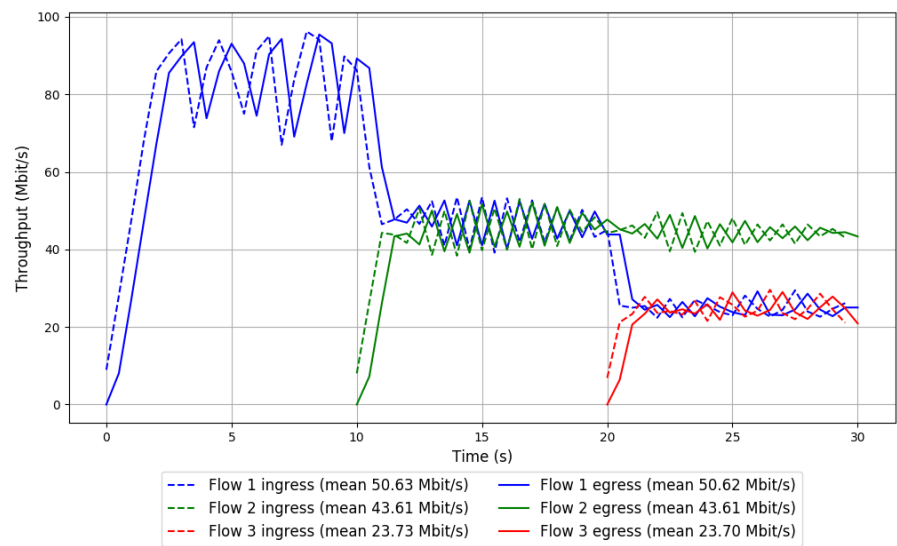


Run 3: Statistics of LEDBAT

Start at: 2018-07-10 21:12:35  
End at: 2018-07-10 21:13:05  
Local clock offset: 1.314 ms  
Remote clock offset: -7.926 ms

# Below is generated by plot.py at 2018-07-10 23:54:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.52 Mbit/s  
95th percentile per-packet one-way delay: 30.065 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 50.62 Mbit/s  
95th percentile per-packet one-way delay: 29.708 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 43.61 Mbit/s  
95th percentile per-packet one-way delay: 28.363 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 23.70 Mbit/s  
95th percentile per-packet one-way delay: 34.221 ms  
Loss rate: 0.36%

Run 3: Report of LEDBAT — Data Link



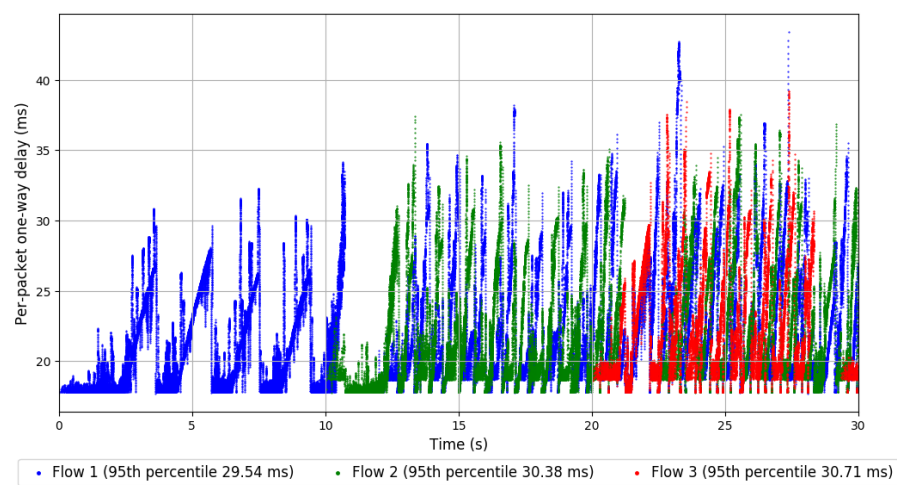
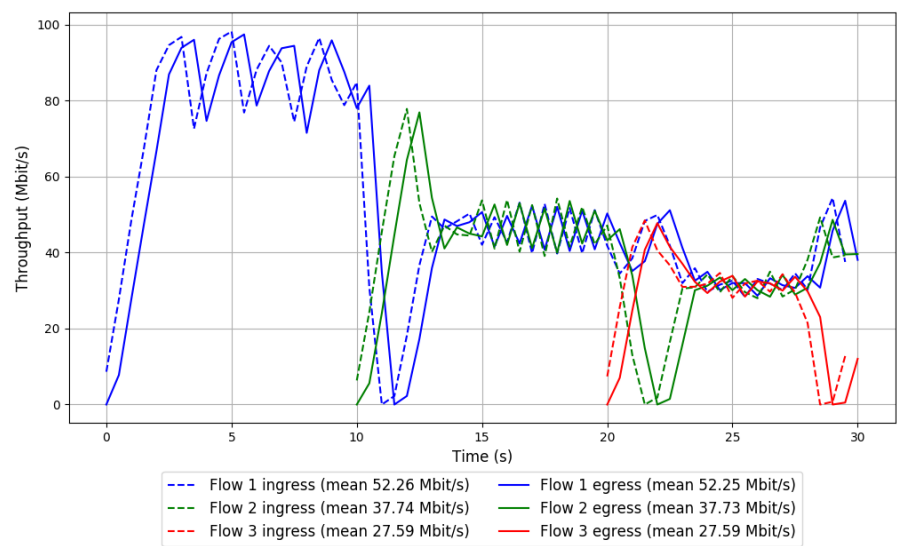
Run 4: Statistics of LEDBAT

Start at: 2018-07-10 21:33:10  
End at: 2018-07-10 21:33:40  
Local clock offset: 2.596 ms  
Remote clock offset: -5.715 ms

# Below is generated by plot.py at 2018-07-10 23:54:57  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.53 Mbit/s  
95th percentile per-packet one-way delay: 29.973 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 52.25 Mbit/s  
95th percentile per-packet one-way delay: 29.538 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 37.73 Mbit/s  
95th percentile per-packet one-way delay: 30.382 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 27.59 Mbit/s  
95th percentile per-packet one-way delay: 30.711 ms  
Loss rate: 0.21%



Run 4: Report of LEDBAT — Data Link

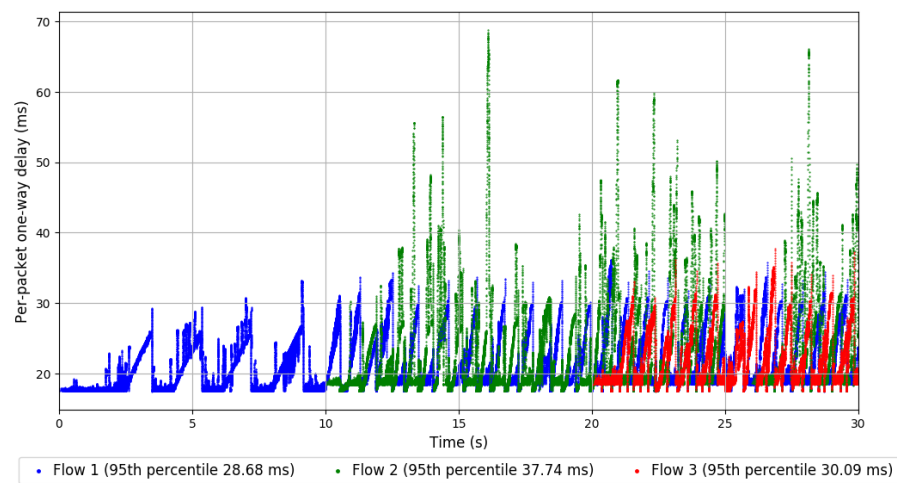
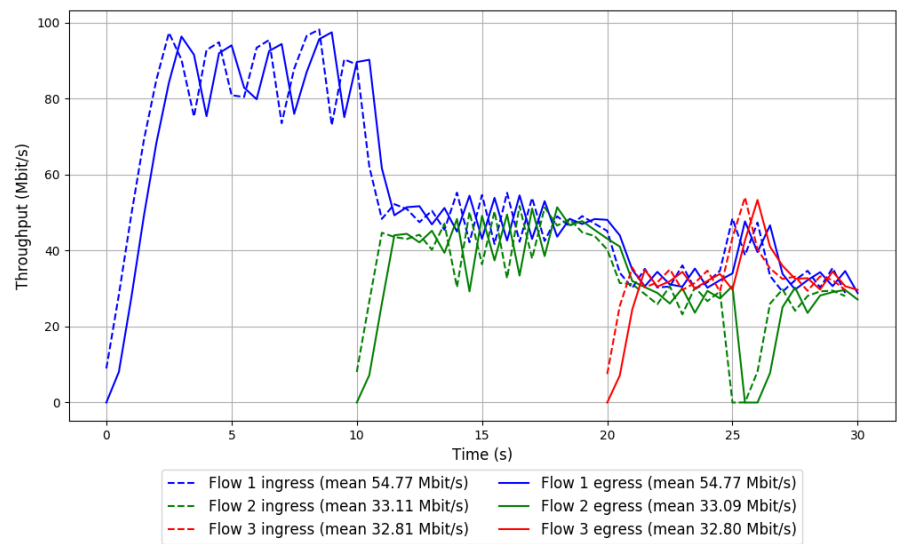


Run 5: Statistics of LEDBAT

Start at: 2018-07-10 21:53:38  
End at: 2018-07-10 21:54:08  
Local clock offset: 2.78 ms  
Remote clock offset: -4.292 ms

# Below is generated by plot.py at 2018-07-10 23:55:03  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.69 Mbit/s  
95th percentile per-packet one-way delay: 29.978 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 54.77 Mbit/s  
95th percentile per-packet one-way delay: 28.679 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 33.09 Mbit/s  
95th percentile per-packet one-way delay: 37.739 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 32.80 Mbit/s  
95th percentile per-packet one-way delay: 30.090 ms  
Loss rate: 0.28%

Run 5: Report of LEDBAT — Data Link

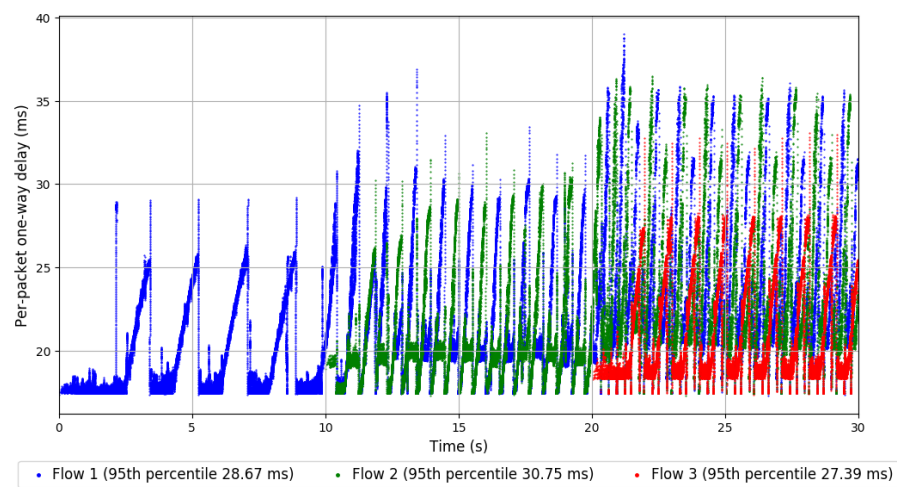
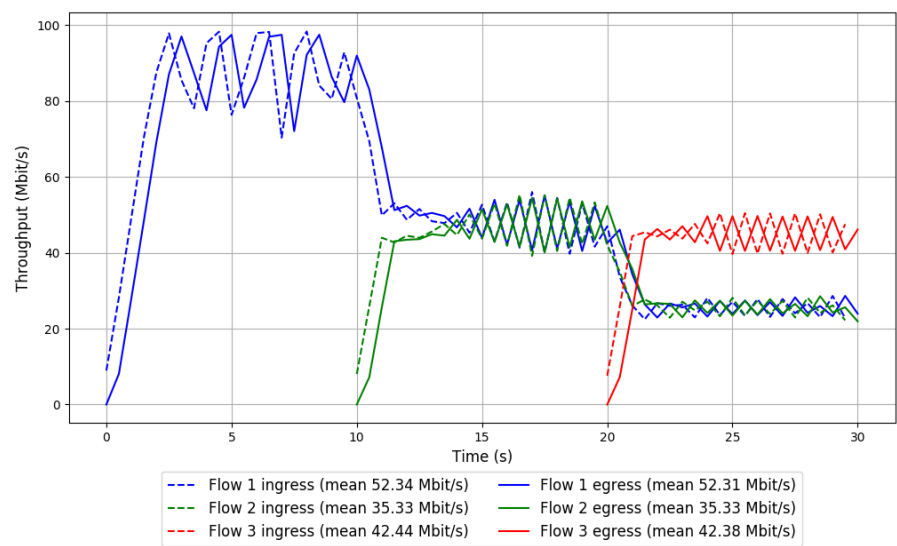


Run 6: Statistics of LEDBAT

Start at: 2018-07-10 22:13:59  
End at: 2018-07-10 22:14:29  
Local clock offset: 1.851 ms  
Remote clock offset: -4.085 ms

# Below is generated by plot.py at 2018-07-10 23:55:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.90 Mbit/s  
95th percentile per-packet one-way delay: 28.843 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 52.31 Mbit/s  
95th percentile per-packet one-way delay: 28.673 ms  
Loss rate: 0.02%  
-- Flow 2:  
Average throughput: 35.33 Mbit/s  
95th percentile per-packet one-way delay: 30.747 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 42.38 Mbit/s  
95th percentile per-packet one-way delay: 27.386 ms  
Loss rate: 0.39%

Run 6: Report of LEDBAT — Data Link

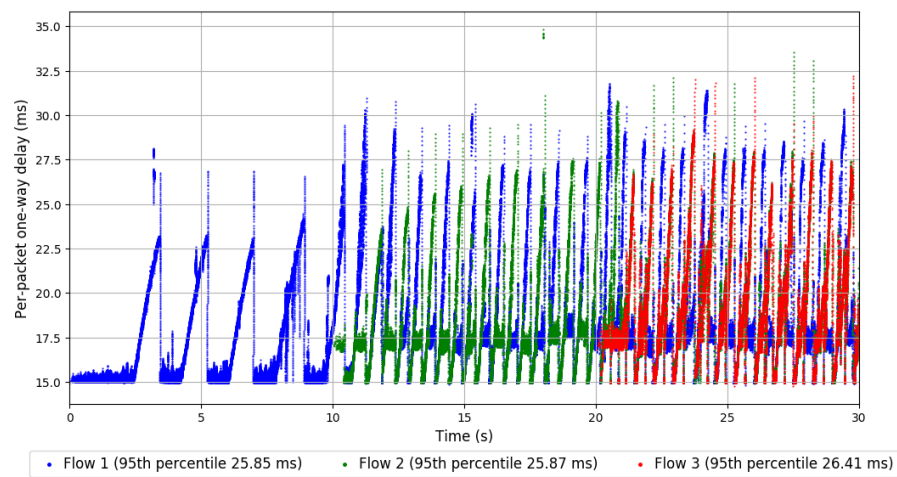
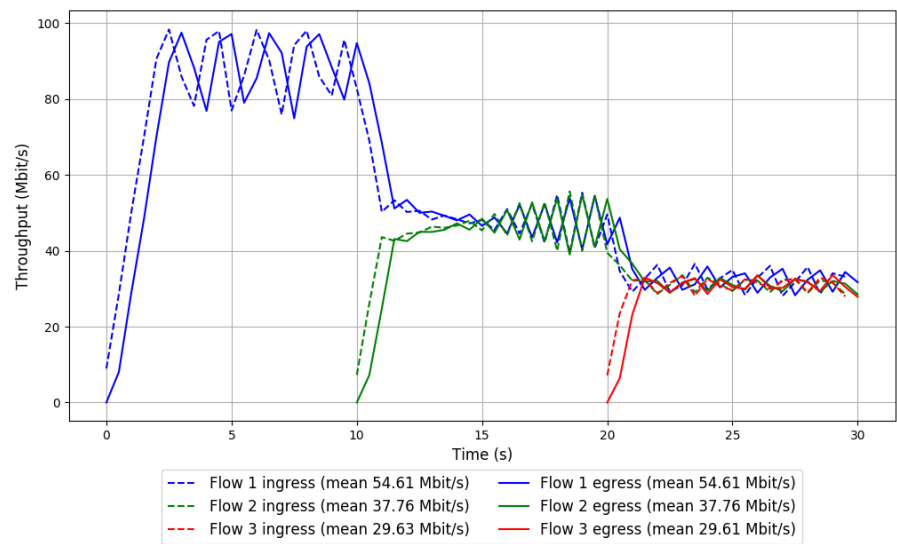


Run 7: Statistics of LEDBAT

Start at: 2018-07-10 22:34:16  
End at: 2018-07-10 22:34:46  
Local clock offset: 0.247 ms  
Remote clock offset: -5.787 ms

# Below is generated by plot.py at 2018-07-10 23:55:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.57 Mbit/s  
95th percentile per-packet one-way delay: 25.972 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 54.61 Mbit/s  
95th percentile per-packet one-way delay: 25.852 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 37.76 Mbit/s  
95th percentile per-packet one-way delay: 25.872 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 29.61 Mbit/s  
95th percentile per-packet one-way delay: 26.408 ms  
Loss rate: 0.33%

Run 7: Report of LEDBAT — Data Link



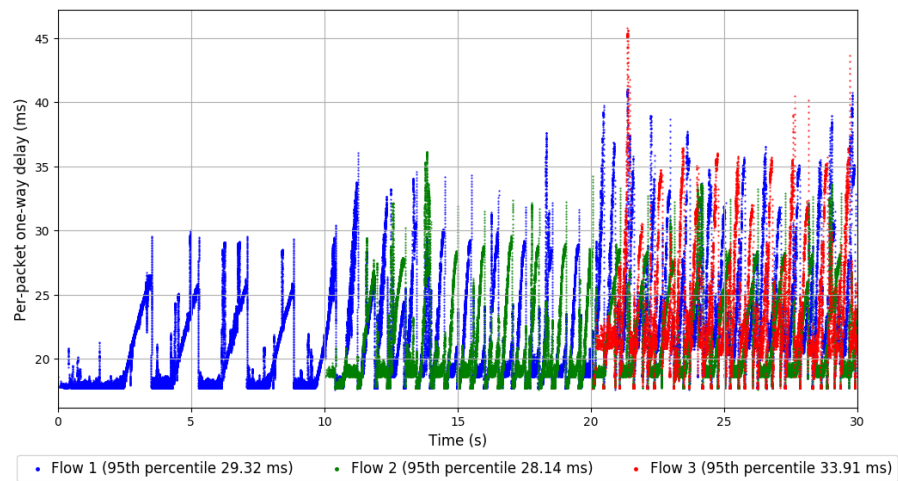
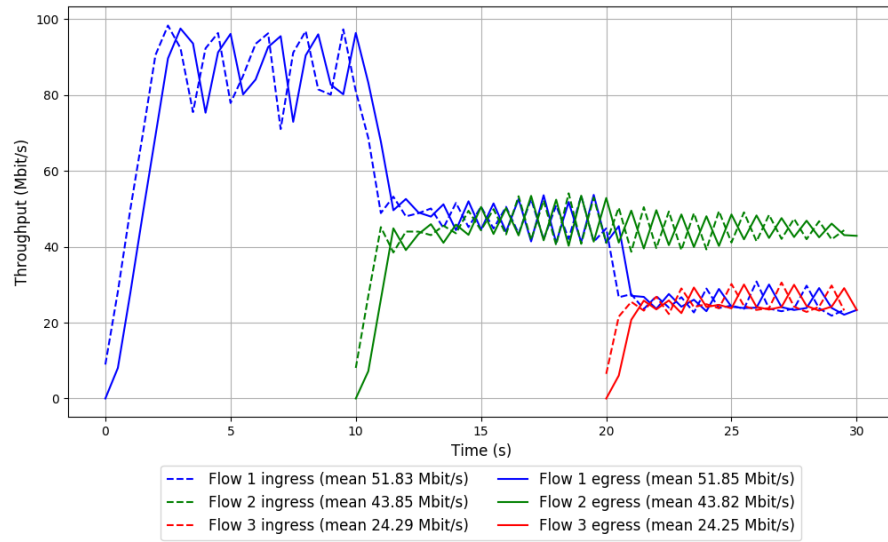
Run 8: Statistics of LEDBAT

Start at: 2018-07-10 22:54:48  
End at: 2018-07-10 22:55:18  
Local clock offset: 2.612 ms  
Remote clock offset: -7.437 ms

# Below is generated by plot.py at 2018-07-10 23:55:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.07 Mbit/s  
95th percentile per-packet one-way delay: 29.393 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 51.85 Mbit/s  
95th percentile per-packet one-way delay: 29.319 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 43.82 Mbit/s  
95th percentile per-packet one-way delay: 28.140 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 24.25 Mbit/s  
95th percentile per-packet one-way delay: 33.913 ms  
Loss rate: 0.39%



# Run 8: Report of LEDBAT — Data Link

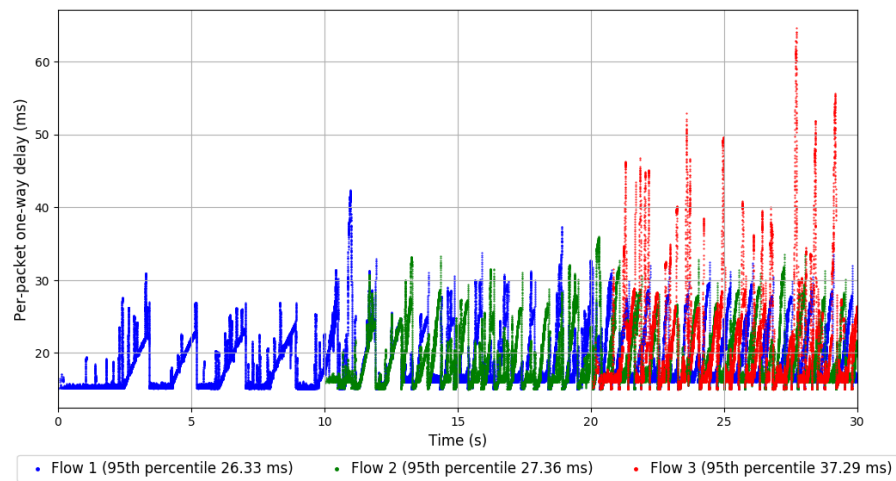
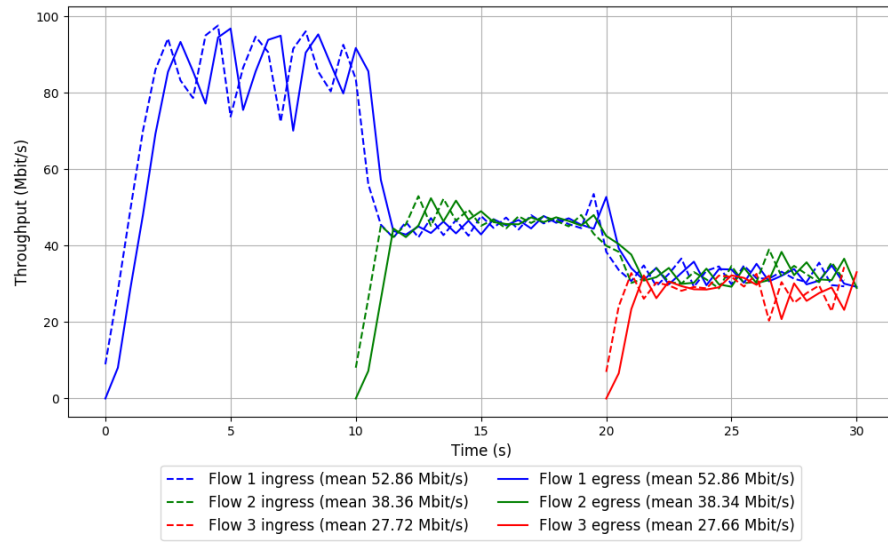


Run 9: Statistics of LEDBAT

Start at: 2018-07-10 23:14:54  
End at: 2018-07-10 23:15:24  
Local clock offset: -0.506 ms  
Remote clock offset: -12.179 ms

# Below is generated by plot.py at 2018-07-10 23:55:25  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.57 Mbit/s  
95th percentile per-packet one-way delay: 27.188 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 52.86 Mbit/s  
95th percentile per-packet one-way delay: 26.332 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 38.34 Mbit/s  
95th percentile per-packet one-way delay: 27.362 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 27.66 Mbit/s  
95th percentile per-packet one-way delay: 37.291 ms  
Loss rate: 0.48%

### Run 9: Report of LEDBAT — Data Link

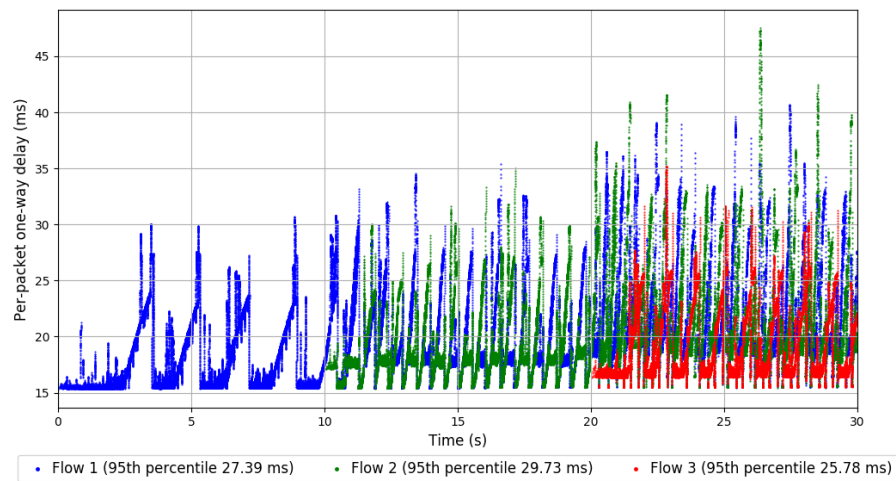
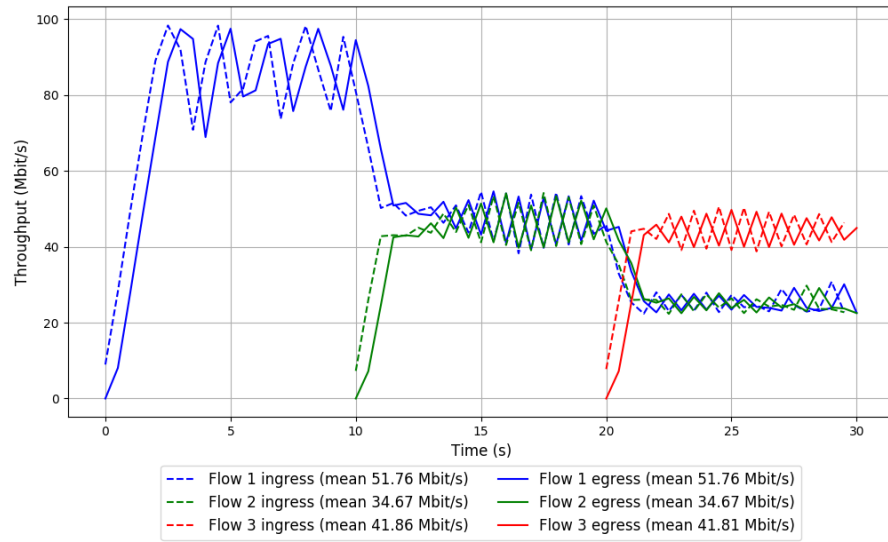


Run 10: Statistics of LEDBAT

Start at: 2018-07-10 23:35:31  
End at: 2018-07-10 23:36:01  
Local clock offset: -0.481 ms  
Remote clock offset: -11.149 ms

# Below is generated by plot.py at 2018-07-10 23:55:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.72 Mbit/s  
95th percentile per-packet one-way delay: 27.864 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 51.76 Mbit/s  
95th percentile per-packet one-way delay: 27.387 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 34.67 Mbit/s  
95th percentile per-packet one-way delay: 29.725 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 41.81 Mbit/s  
95th percentile per-packet one-way delay: 25.779 ms  
Loss rate: 0.38%

# Run 10: Report of LEDBAT — Data Link

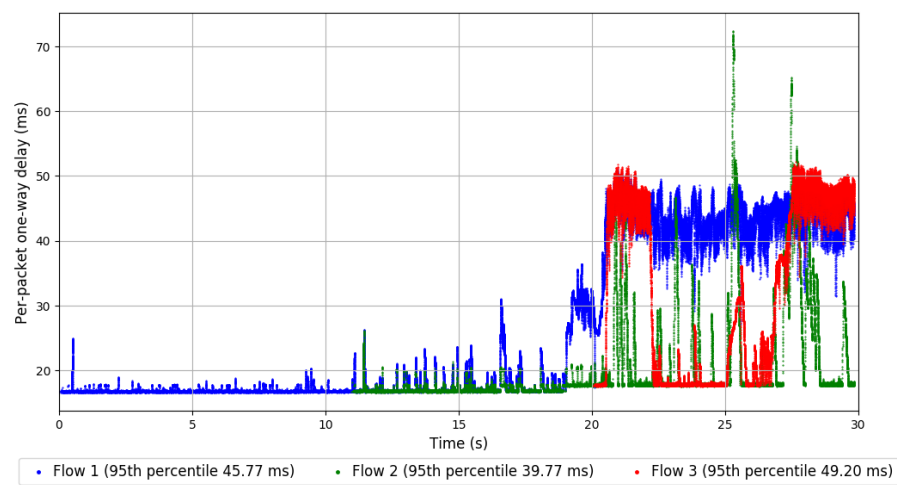
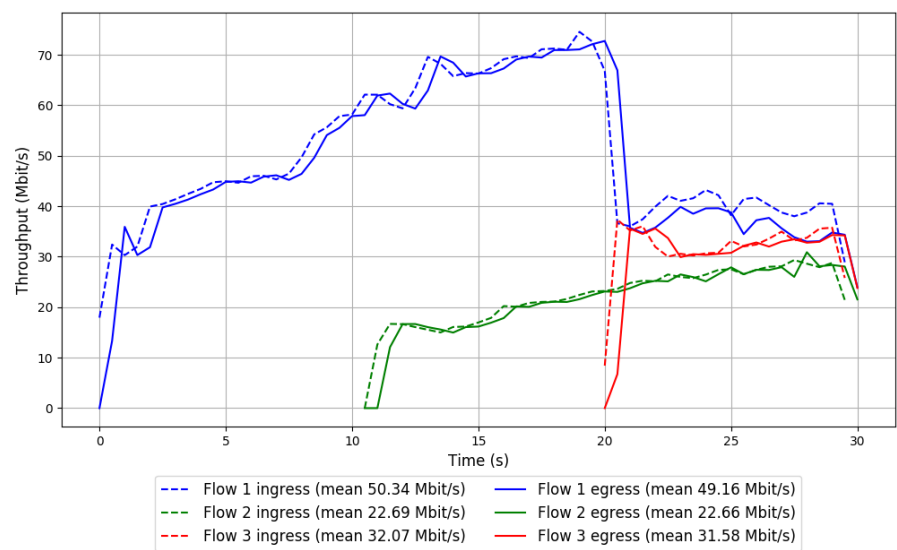


Run 1: Statistics of PCC-Allegro

Start at: 2018-07-10 20:23:18  
End at: 2018-07-10 20:23:48  
Local clock offset: 1.151 ms  
Remote clock offset: -6.088 ms

# Below is generated by plot.py at 2018-07-10 23:55:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 73.88 Mbit/s  
95th percentile per-packet one-way delay: 46.735 ms  
Loss rate: 1.96%  
-- Flow 1:  
Average throughput: 49.16 Mbit/s  
95th percentile per-packet one-way delay: 45.767 ms  
Loss rate: 2.45%  
-- Flow 2:  
Average throughput: 22.66 Mbit/s  
95th percentile per-packet one-way delay: 39.770 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 31.58 Mbit/s  
95th percentile per-packet one-way delay: 49.199 ms  
Loss rate: 1.86%

Run 1: Report of PCC-Allegro — Data Link



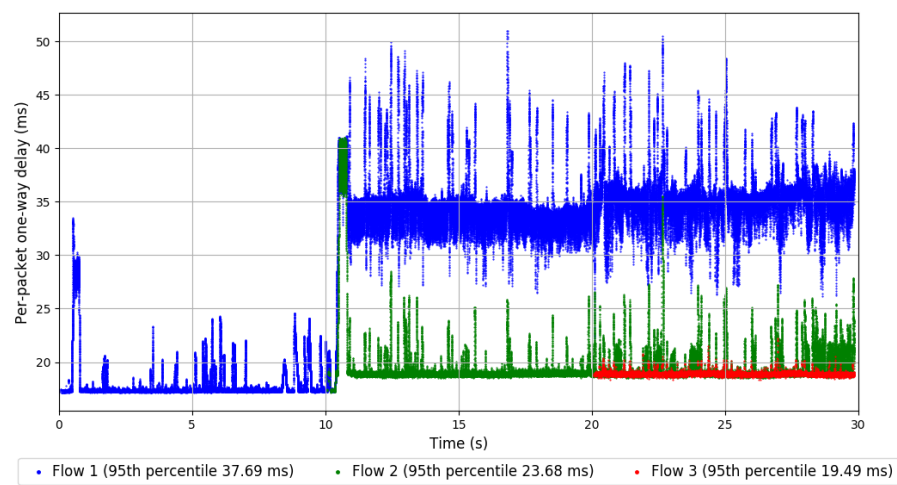
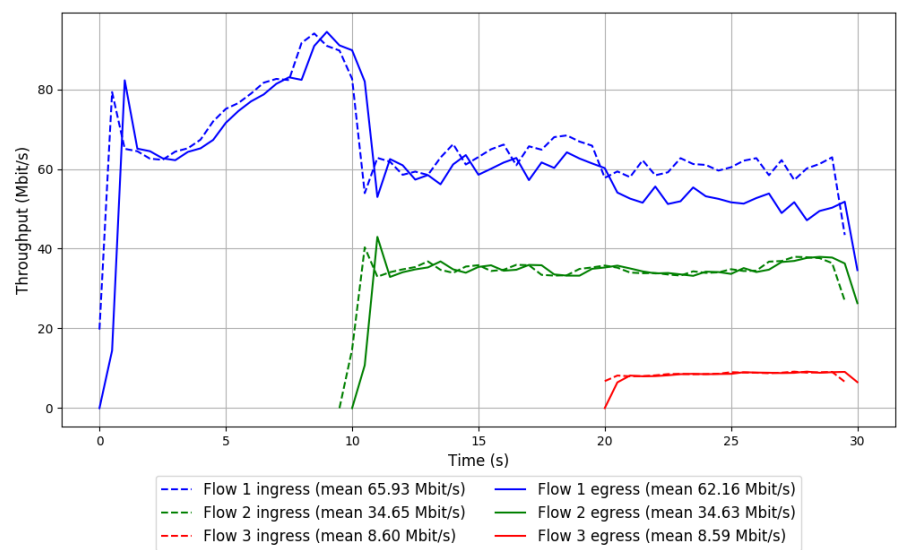
Run 2: Statistics of PCC-Allegro

Start at: 2018-07-10 20:43:46  
End at: 2018-07-10 20:44:16  
Local clock offset: 1.399 ms  
Remote clock offset: -6.589 ms

# Below is generated by plot.py at 2018-07-10 23:56:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.01 Mbit/s  
95th percentile per-packet one-way delay: 36.769 ms  
Loss rate: 4.23%  
-- Flow 1:  
Average throughput: 62.16 Mbit/s  
95th percentile per-packet one-way delay: 37.690 ms  
Loss rate: 5.82%  
-- Flow 2:  
Average throughput: 34.63 Mbit/s  
95th percentile per-packet one-way delay: 23.675 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 8.59 Mbit/s  
95th percentile per-packet one-way delay: 19.486 ms  
Loss rate: 0.26%



Run 2: Report of PCC-Allegro — Data Link

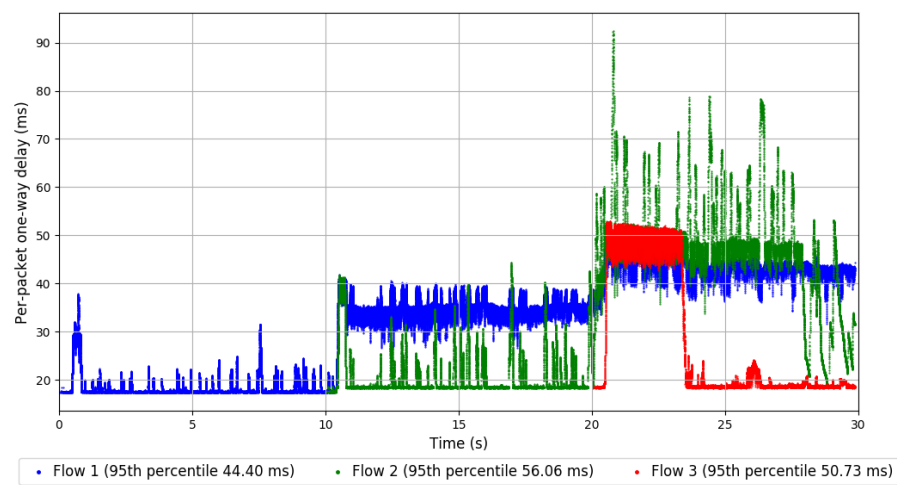
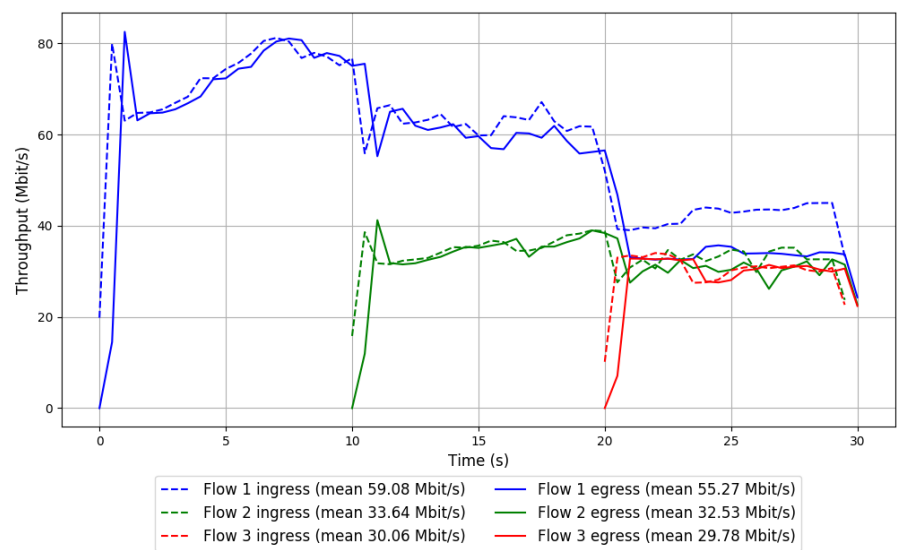


Run 3: Statistics of PCC-Allegro

Start at: 2018-07-10 21:04:29  
End at: 2018-07-10 21:04:59  
Local clock offset: 1.409 ms  
Remote clock offset: -8.242 ms

# Below is generated by plot.py at 2018-07-10 23:56:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.70 Mbit/s  
95th percentile per-packet one-way delay: 49.159 ms  
Loss rate: 5.20%  
-- Flow 1:  
Average throughput: 55.27 Mbit/s  
95th percentile per-packet one-way delay: 44.402 ms  
Loss rate: 6.55%  
-- Flow 2:  
Average throughput: 32.53 Mbit/s  
95th percentile per-packet one-way delay: 56.057 ms  
Loss rate: 3.42%  
-- Flow 3:  
Average throughput: 29.78 Mbit/s  
95th percentile per-packet one-way delay: 50.734 ms  
Loss rate: 1.19%

Run 3: Report of PCC-Allegro — Data Link

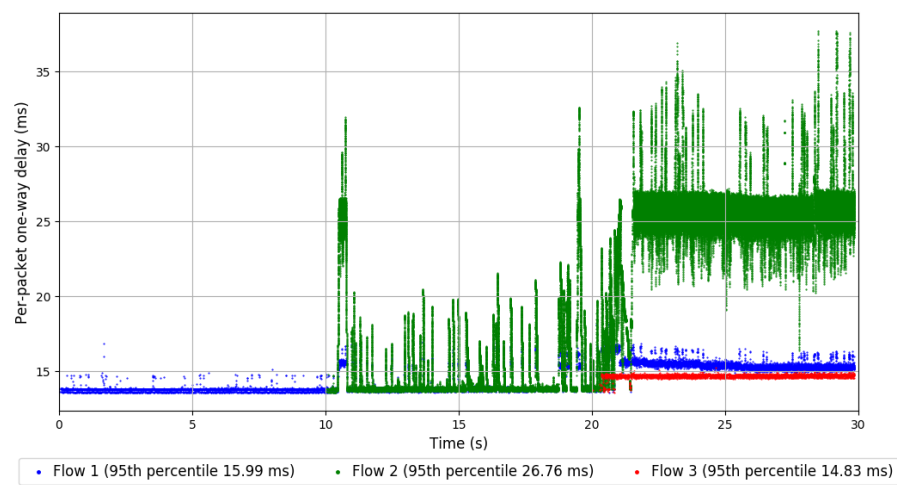
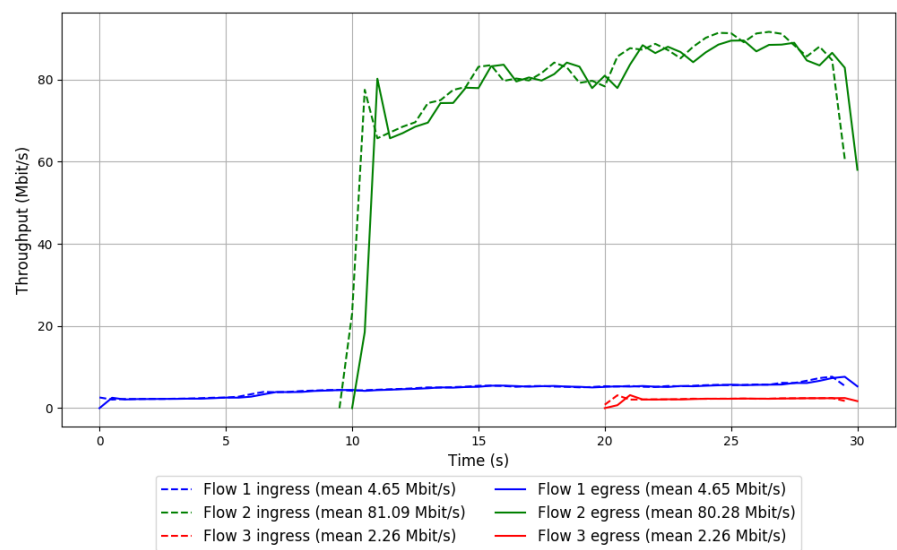


Run 4: Statistics of PCC-Allegro

Start at: 2018-07-10 21:25:05  
End at: 2018-07-10 21:25:35  
Local clock offset: -0.59 ms  
Remote clock offset: -5.268 ms

```
# Below is generated by plot.py at 2018-07-10 23:56:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.79 Mbit/s
95th percentile per-packet one-way delay: 26.703 ms
Loss rate: 1.02%
-- Flow 1:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 15.991 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 80.28 Mbit/s
95th percentile per-packet one-way delay: 26.759 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 2.26 Mbit/s
95th percentile per-packet one-way delay: 14.827 ms
Loss rate: 0.28%
```

Run 4: Report of PCC-Allegro — Data Link

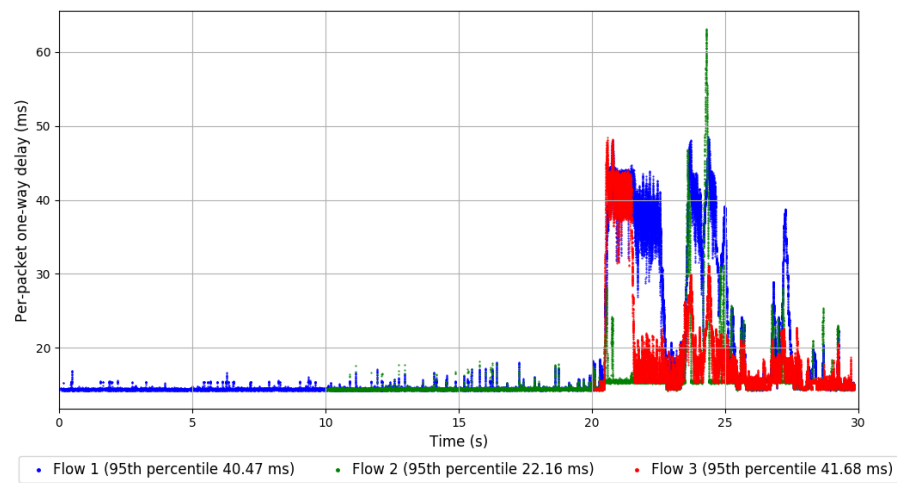
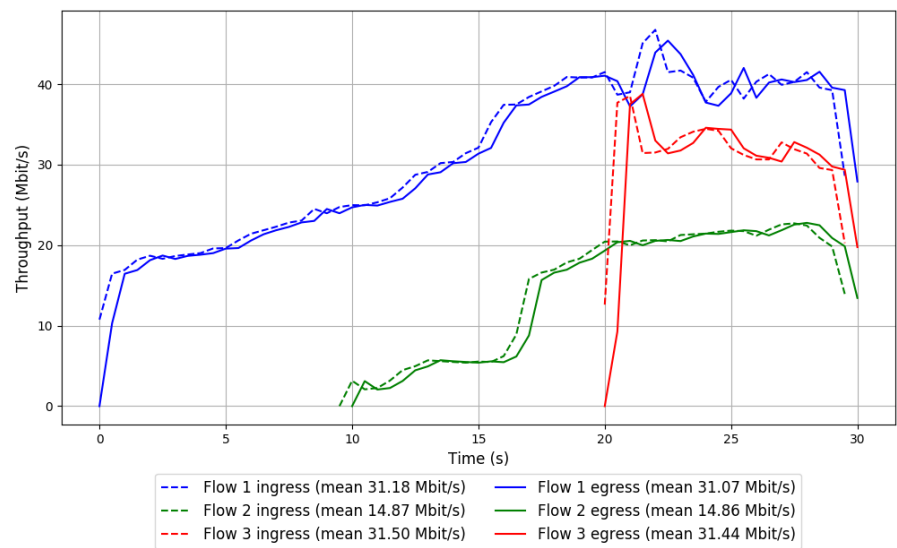


Run 5: Statistics of PCC-Allegro

Start at: 2018-07-10 21:45:23  
End at: 2018-07-10 21:45:53  
Local clock offset: -0.243 ms  
Remote clock offset: -4.868 ms

# Below is generated by plot.py at 2018-07-10 23:56:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.29 Mbit/s  
95th percentile per-packet one-way delay: 40.204 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 31.07 Mbit/s  
95th percentile per-packet one-way delay: 40.468 ms  
Loss rate: 0.44%  
-- Flow 2:  
Average throughput: 14.86 Mbit/s  
95th percentile per-packet one-way delay: 22.157 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 31.44 Mbit/s  
95th percentile per-packet one-way delay: 41.677 ms  
Loss rate: 0.40%

Run 5: Report of PCC-Allegro — Data Link



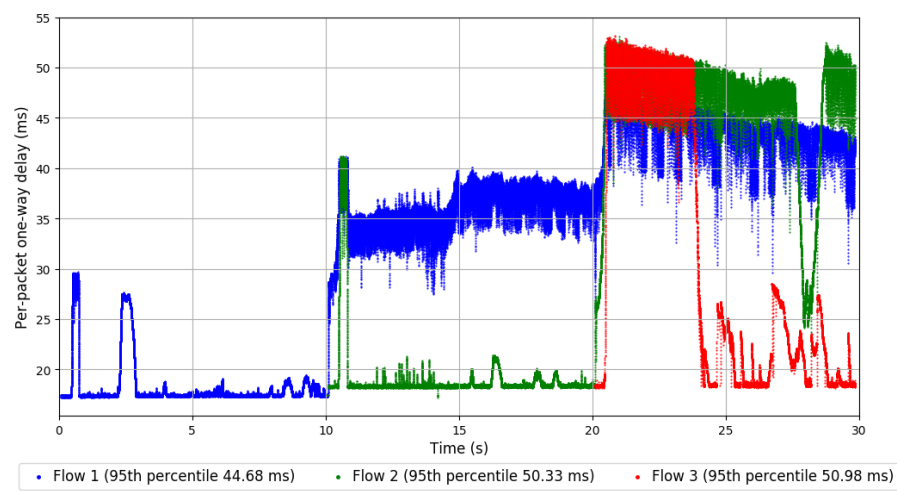
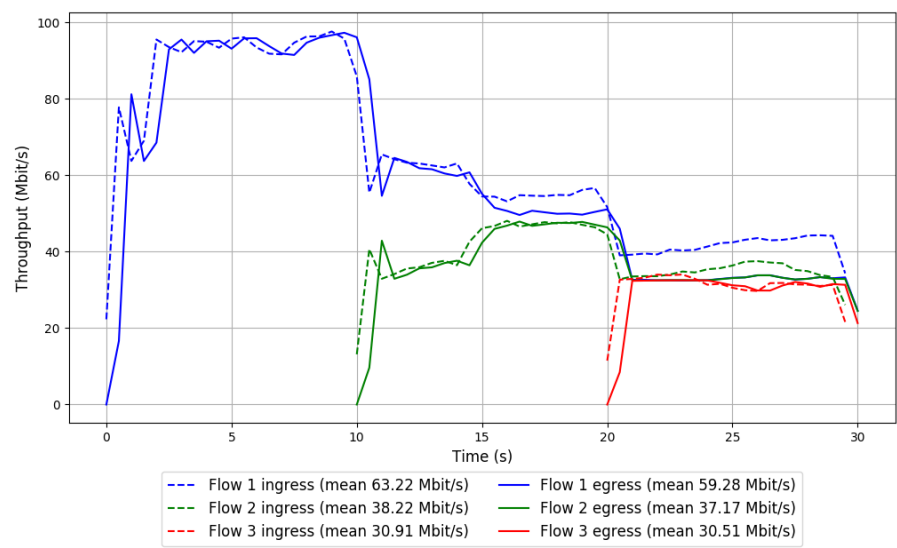
Run 6: Statistics of PCC-Allegro

Start at: 2018-07-10 22:05:51  
End at: 2018-07-10 22:06:21  
Local clock offset: 2.302 ms  
Remote clock offset: -3.897 ms

# Below is generated by plot.py at 2018-07-10 23:56:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.03 Mbit/s  
95th percentile per-packet one-way delay: 49.044 ms  
Loss rate: 4.94%  
-- Flow 1:  
Average throughput: 59.28 Mbit/s  
95th percentile per-packet one-way delay: 44.678 ms  
Loss rate: 6.33%  
-- Flow 2:  
Average throughput: 37.17 Mbit/s  
95th percentile per-packet one-way delay: 50.334 ms  
Loss rate: 2.86%  
-- Flow 3:  
Average throughput: 30.51 Mbit/s  
95th percentile per-packet one-way delay: 50.984 ms  
Loss rate: 1.52%



Run 6: Report of PCC-Allegro — Data Link

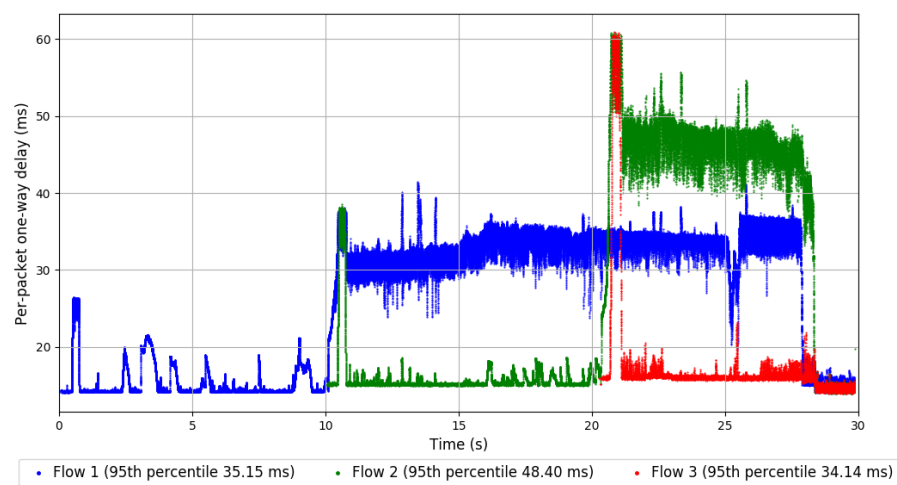
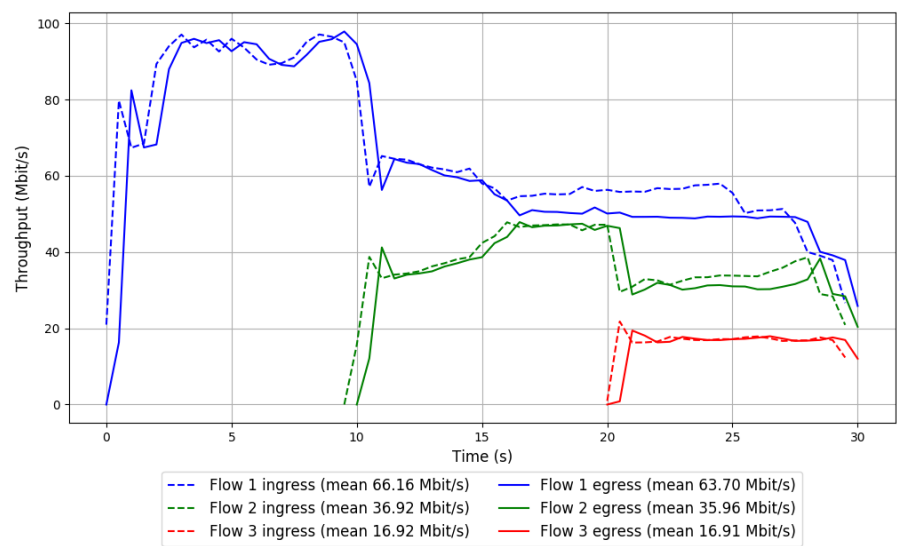


Run 7: Statistics of PCC-Allegro

Start at: 2018-07-10 22:26:06  
End at: 2018-07-10 22:26:36  
Local clock offset: -0.446 ms  
Remote clock offset: -4.334 ms

# Below is generated by plot.py at 2018-07-10 23:56:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.03 Mbit/s  
95th percentile per-packet one-way delay: 45.784 ms  
Loss rate: 3.32%  
-- Flow 1:  
Average throughput: 63.70 Mbit/s  
95th percentile per-packet one-way delay: 35.149 ms  
Loss rate: 3.79%  
-- Flow 2:  
Average throughput: 35.96 Mbit/s  
95th percentile per-packet one-way delay: 48.396 ms  
Loss rate: 2.72%  
-- Flow 3:  
Average throughput: 16.91 Mbit/s  
95th percentile per-packet one-way delay: 34.144 ms  
Loss rate: 0.29%

Run 7: Report of PCC-Allegro — Data Link

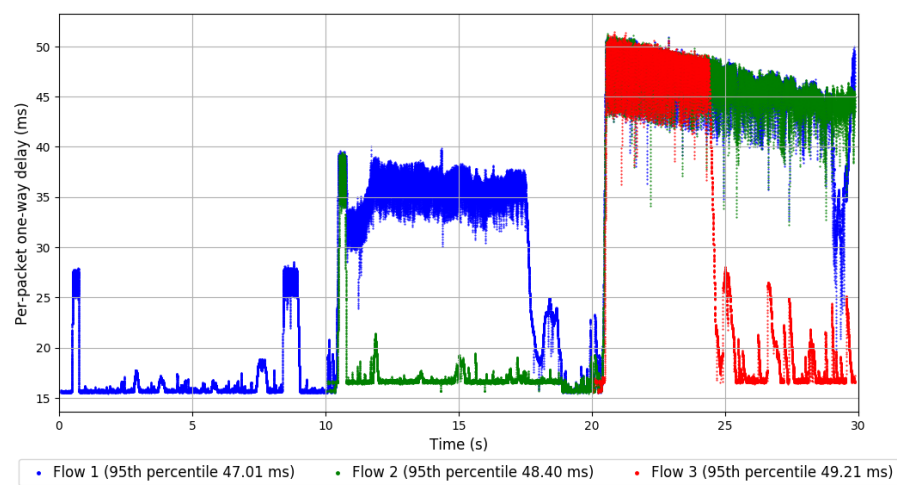
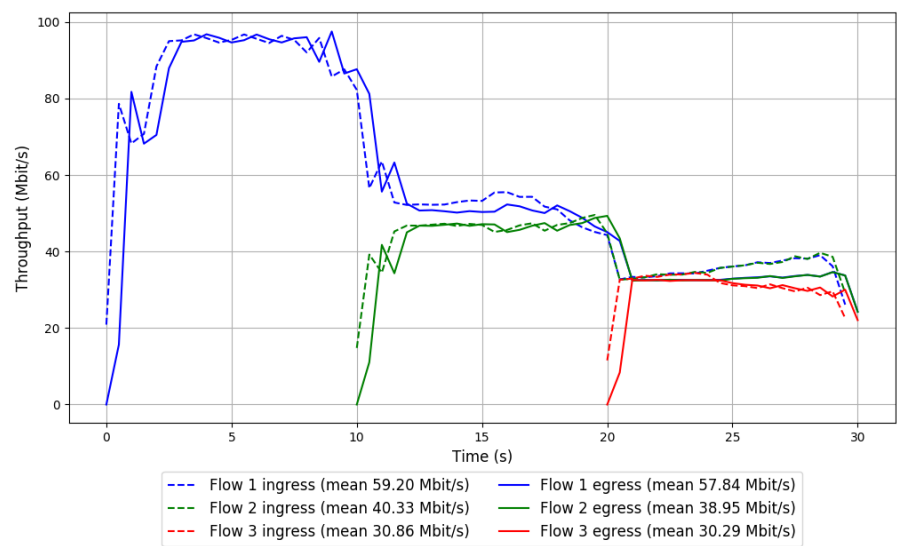


Run 8: Statistics of PCC-Allegro

Start at: 2018-07-10 22:46:36  
End at: 2018-07-10 22:47:06  
Local clock offset: 1.337 ms  
Remote clock offset: -6.303 ms

# Below is generated by plot.py at 2018-07-10 23:56:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.69 Mbit/s  
95th percentile per-packet one-way delay: 48.070 ms  
Loss rate: 2.69%  
-- Flow 1:  
Average throughput: 57.84 Mbit/s  
95th percentile per-packet one-way delay: 47.009 ms  
Loss rate: 2.38%  
-- Flow 2:  
Average throughput: 38.95 Mbit/s  
95th percentile per-packet one-way delay: 48.403 ms  
Loss rate: 3.59%  
-- Flow 3:  
Average throughput: 30.29 Mbit/s  
95th percentile per-packet one-way delay: 49.214 ms  
Loss rate: 2.06%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-07-10 23:06:48

End at: 2018-07-10 23:07:18

Local clock offset: -1.248 ms

Remote clock offset: -10.546 ms

# Below is generated by plot.py at 2018-07-10 23:57:00

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.20 Mbit/s

95th percentile per-packet one-way delay: 43.420 ms

Loss rate: 3.31%

-- Flow 1:

Average throughput: 56.94 Mbit/s

95th percentile per-packet one-way delay: 42.975 ms

Loss rate: 3.60%

-- Flow 2:

Average throughput: 39.10 Mbit/s

95th percentile per-packet one-way delay: 44.066 ms

Loss rate: 3.61%

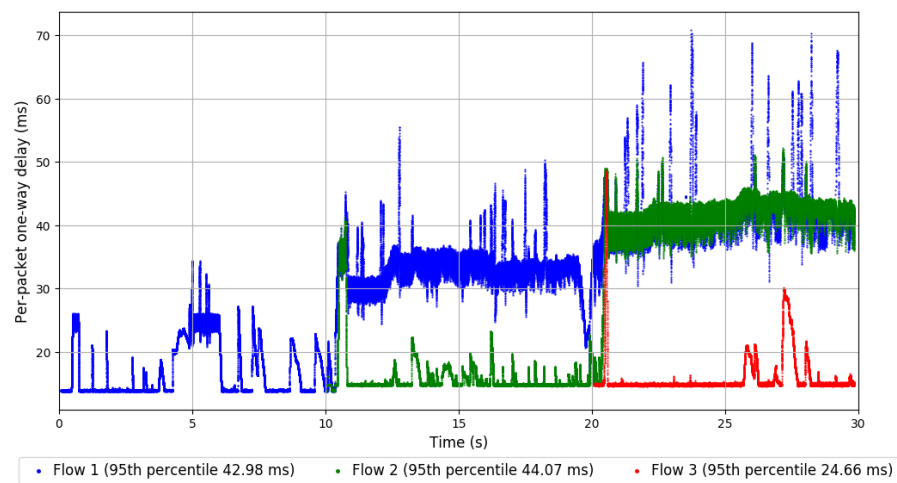
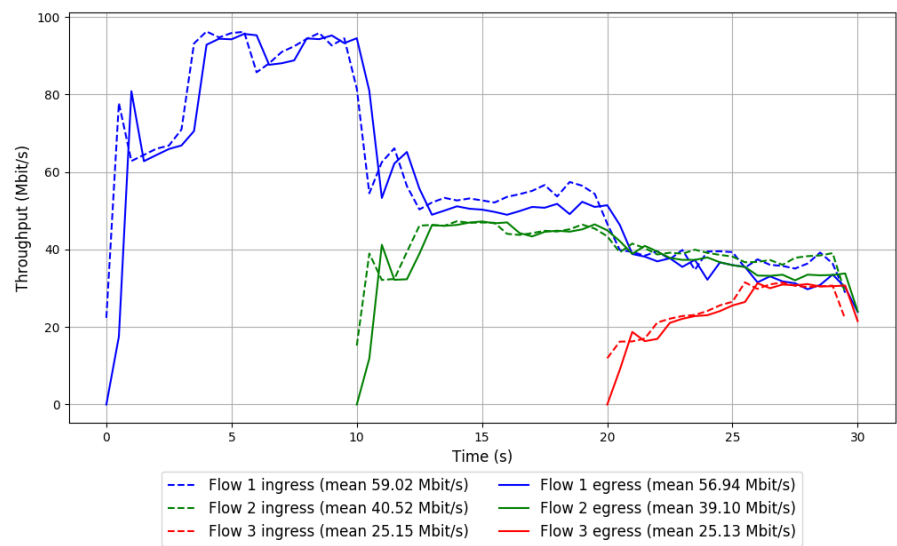
-- Flow 3:

Average throughput: 25.13 Mbit/s

95th percentile per-packet one-way delay: 24.663 ms

Loss rate: 0.32%

Run 9: Report of PCC-Allegro — Data Link



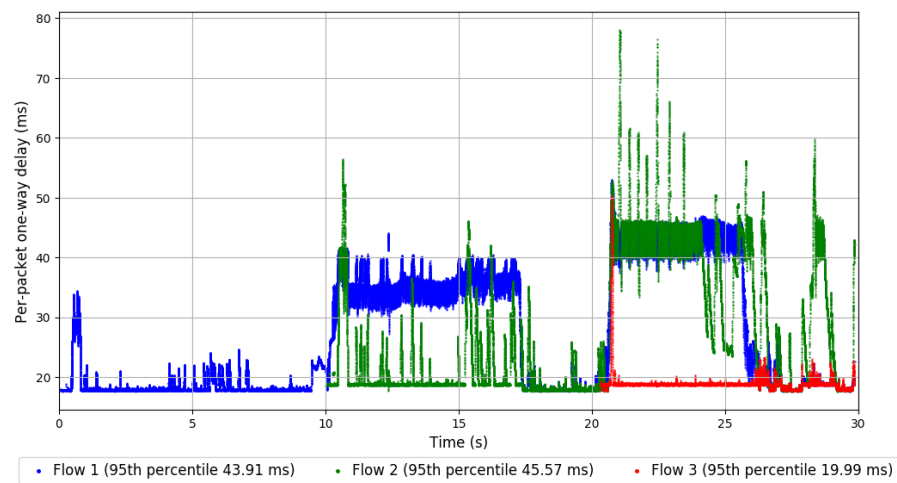
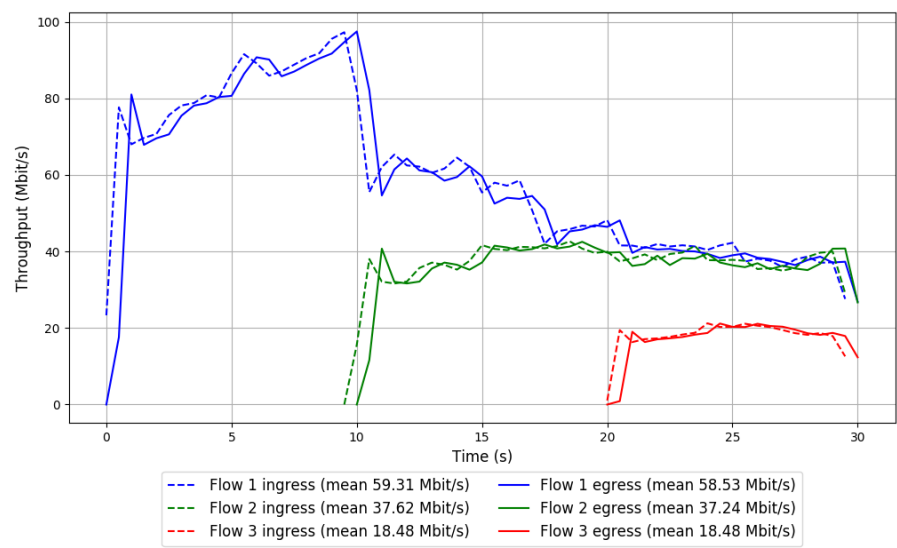
Run 10: Statistics of PCC-Allegro

Start at: 2018-07-10 23:27:11  
End at: 2018-07-10 23:27:41  
Local clock offset: 2.318 ms  
Remote clock offset: -13.248 ms

# Below is generated by plot.py at 2018-07-10 23:57:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.22 Mbit/s  
95th percentile per-packet one-way delay: 44.552 ms  
Loss rate: 1.24%  
-- Flow 1:  
Average throughput: 58.53 Mbit/s  
95th percentile per-packet one-way delay: 43.914 ms  
Loss rate: 1.38%  
-- Flow 2:  
Average throughput: 37.24 Mbit/s  
95th percentile per-packet one-way delay: 45.571 ms  
Loss rate: 1.14%  
-- Flow 3:  
Average throughput: 18.48 Mbit/s  
95th percentile per-packet one-way delay: 19.986 ms  
Loss rate: 0.25%



Run 10: Report of PCC-Allegro — Data Link

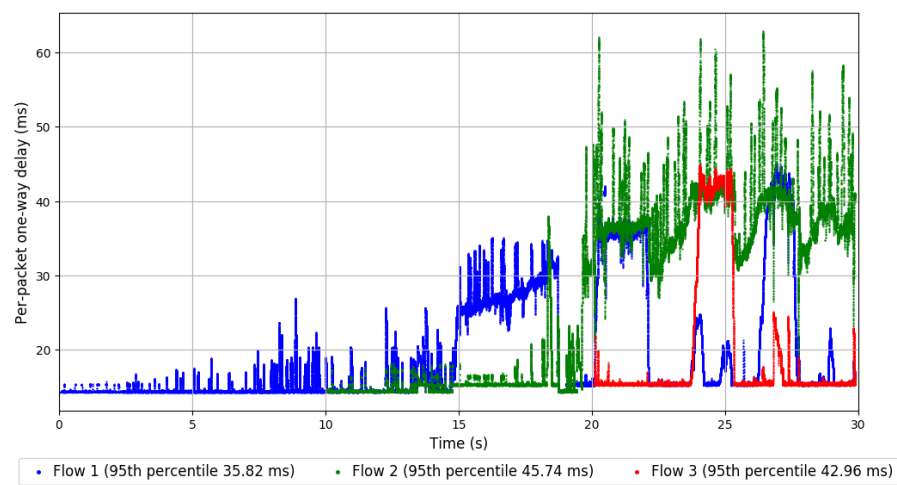
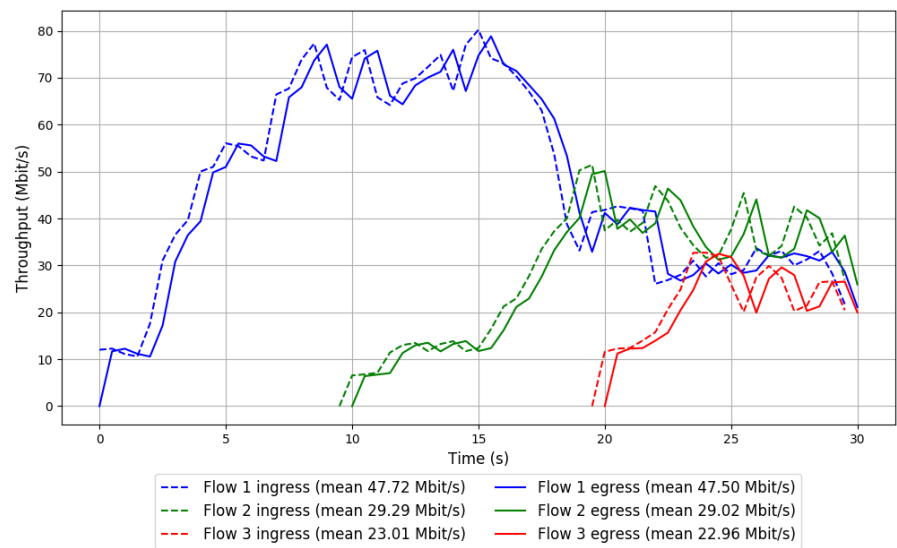


```
Run 1: Statistics of PCC-Expr

Start at: 2018-07-10 20:32:37
End at: 2018-07-10 20:33:07
Local clock offset: -0.771 ms
Remote clock offset: -4.94 ms

# Below is generated by plot.py at 2018-07-10 23:57:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 74.38 Mbit/s
95th percentile per-packet one-way delay: 41.712 ms
Loss rate: 0.68%
-- Flow 1:
Average throughput: 47.50 Mbit/s
95th percentile per-packet one-way delay: 35.823 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 29.02 Mbit/s
95th percentile per-packet one-way delay: 45.737 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 22.96 Mbit/s
95th percentile per-packet one-way delay: 42.962 ms
Loss rate: 0.48%
```

Run 1: Report of PCC-Expr — Data Link

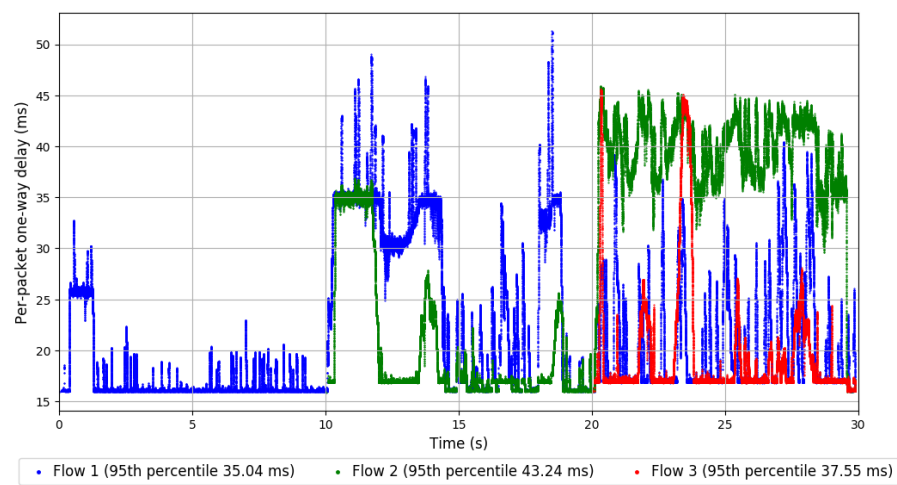
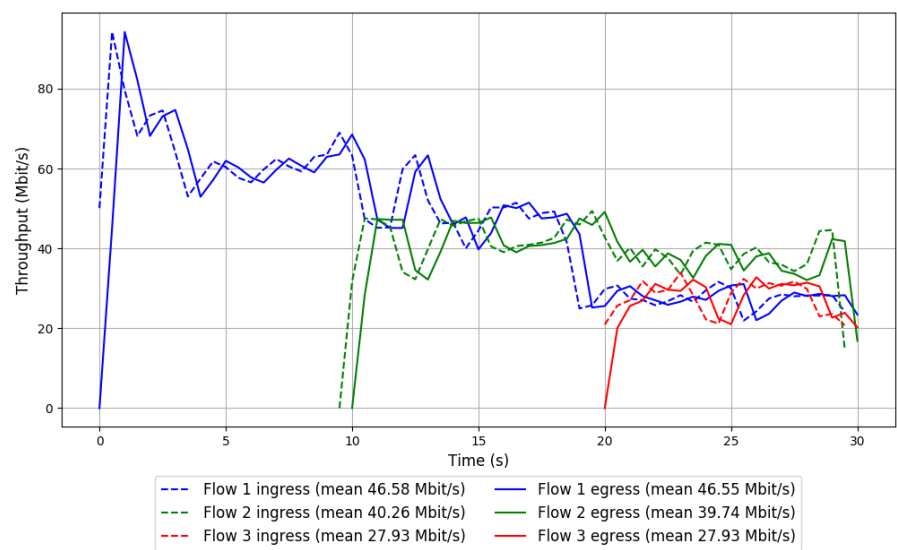


Run 2: Statistics of PCC-Expr

Start at: 2018-07-10 20:53:16  
End at: 2018-07-10 20:53:46  
Local clock offset: 0.284 ms  
Remote clock offset: -7.501 ms

# Below is generated by plot.py at 2018-07-10 23:57:55  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.20 Mbit/s  
95th percentile per-packet one-way delay: 41.831 ms  
Loss rate: 0.56%  
-- Flow 1:  
Average throughput: 46.55 Mbit/s  
95th percentile per-packet one-way delay: 35.037 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 39.74 Mbit/s  
95th percentile per-packet one-way delay: 43.241 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 27.93 Mbit/s  
95th percentile per-packet one-way delay: 37.549 ms  
Loss rate: 0.26%

Run 2: Report of PCC-Expr — Data Link

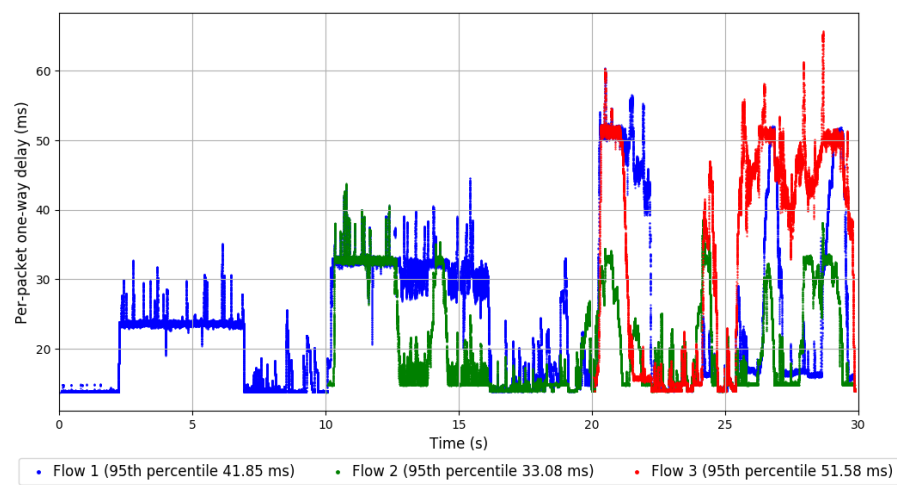
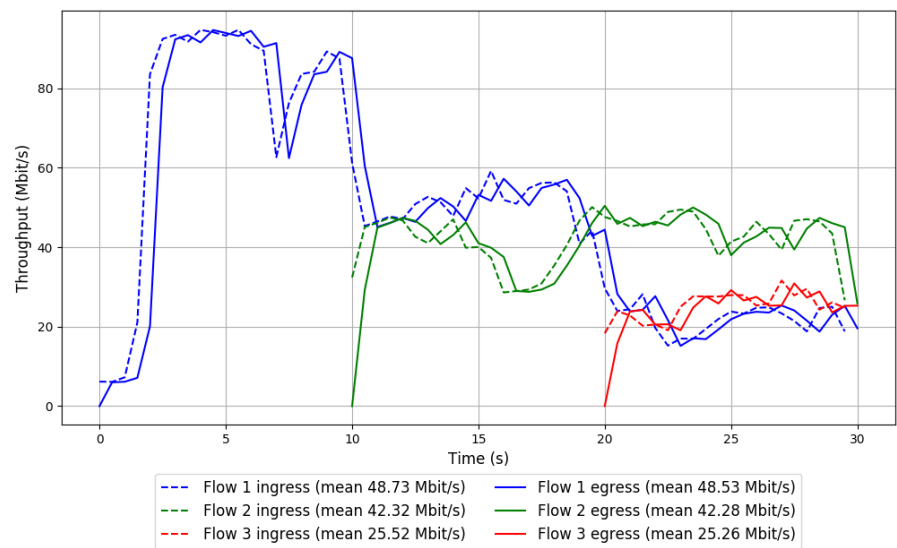


Run 3: Statistics of PCC-Expr

Start at: 2018-07-10 21:13:49  
End at: 2018-07-10 21:14:19  
Local clock offset: -0.922 ms  
Remote clock offset: -6.995 ms

# Below is generated by plot.py at 2018-07-10 23:58:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.97 Mbit/s  
95th percentile per-packet one-way delay: 46.377 ms  
Loss rate: 0.48%  
-- Flow 1:  
Average throughput: 48.53 Mbit/s  
95th percentile per-packet one-way delay: 41.854 ms  
Loss rate: 0.48%  
-- Flow 2:  
Average throughput: 42.28 Mbit/s  
95th percentile per-packet one-way delay: 33.076 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 25.26 Mbit/s  
95th percentile per-packet one-way delay: 51.577 ms  
Loss rate: 1.28%

Run 3: Report of PCC-Expr — Data Link



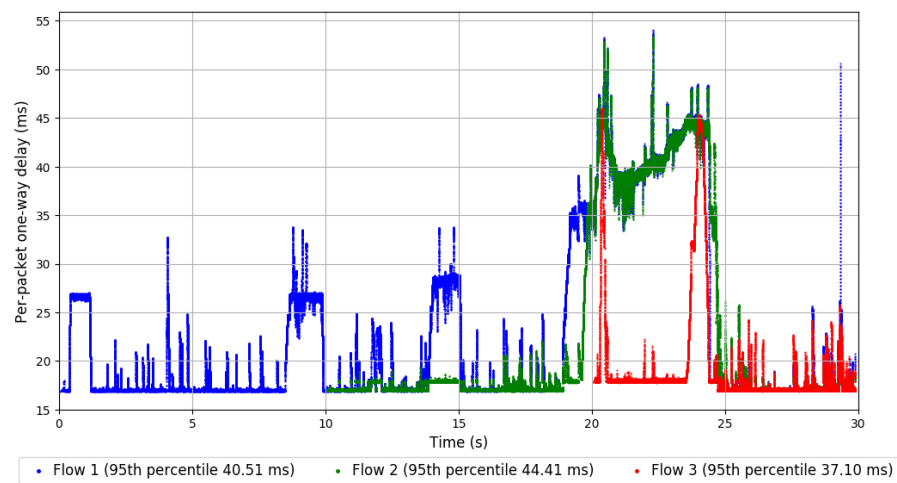
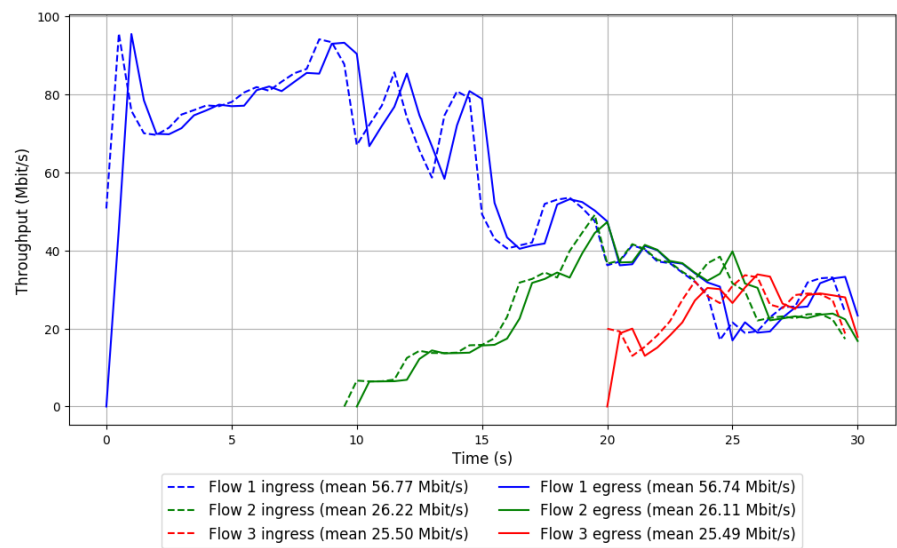
Run 4: Statistics of PCC-Expr

Start at: 2018-07-10 21:34:21  
End at: 2018-07-10 21:34:51  
Local clock offset: 1.589 ms  
Remote clock offset: -5.832 ms

# Below is generated by plot.py at 2018-07-10 23:58:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.50 Mbit/s  
95th percentile per-packet one-way delay: 42.622 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 56.74 Mbit/s  
95th percentile per-packet one-way delay: 40.511 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 26.11 Mbit/s  
95th percentile per-packet one-way delay: 44.405 ms  
Loss rate: 0.60%  
-- Flow 3:  
Average throughput: 25.49 Mbit/s  
95th percentile per-packet one-way delay: 37.102 ms  
Loss rate: 0.28%



Run 4: Report of PCC-Expr — Data Link

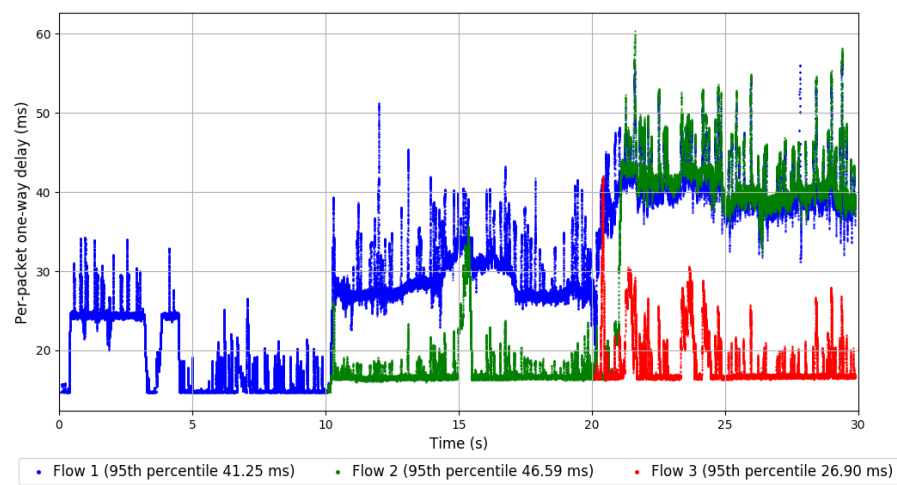
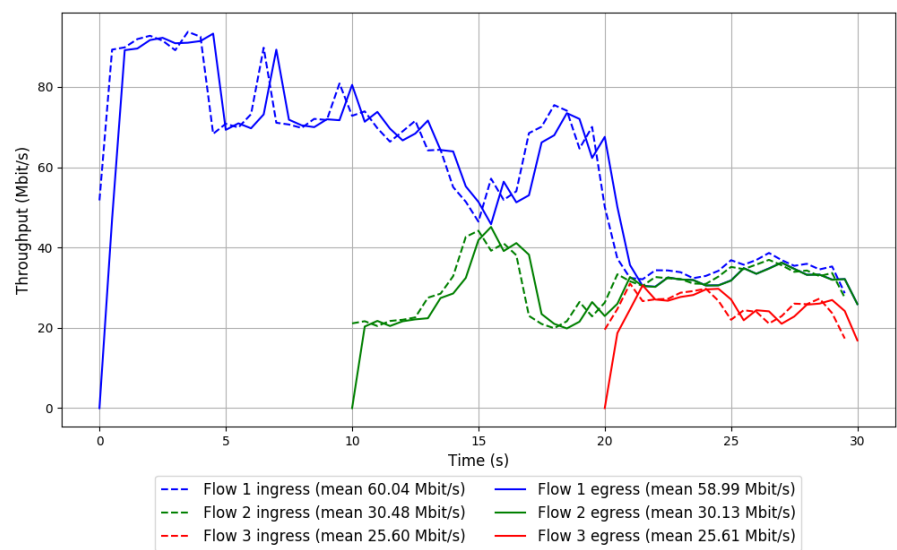


Run 5: Statistics of PCC-Expr

Start at: 2018-07-10 21:54:53  
End at: 2018-07-10 21:55:23  
Local clock offset: -0.626 ms  
Remote clock offset: -4.737 ms

# Below is generated by plot.py at 2018-07-10 23:58:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.46 Mbit/s  
95th percentile per-packet one-way delay: 42.877 ms  
Loss rate: 1.56%  
-- Flow 1:  
Average throughput: 58.99 Mbit/s  
95th percentile per-packet one-way delay: 41.252 ms  
Loss rate: 1.84%  
-- Flow 2:  
Average throughput: 30.13 Mbit/s  
95th percentile per-packet one-way delay: 46.586 ms  
Loss rate: 1.29%  
-- Flow 3:  
Average throughput: 25.61 Mbit/s  
95th percentile per-packet one-way delay: 26.897 ms  
Loss rate: 0.25%

Run 5: Report of PCC-Expr — Data Link

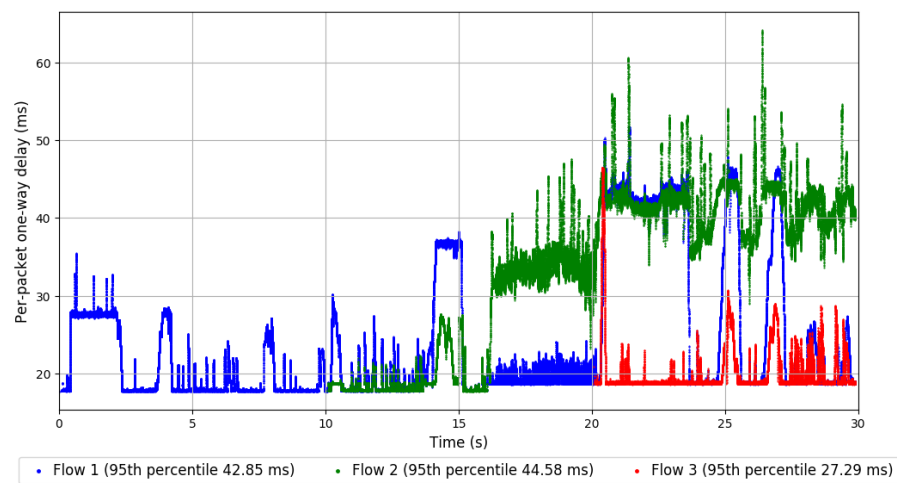
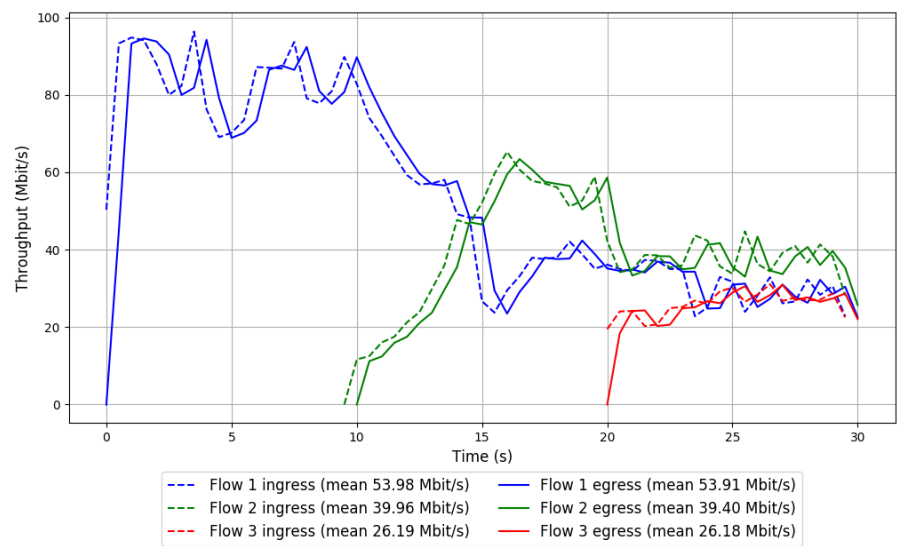


Run 6: Statistics of PCC-Expr

Start at: 2018-07-10 22:15:13  
End at: 2018-07-10 22:15:43  
Local clock offset: 2.795 ms  
Remote clock offset: -3.461 ms

# Below is generated by plot.py at 2018-07-10 23:58:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.74 Mbit/s  
95th percentile per-packet one-way delay: 43.624 ms  
Loss rate: 0.65%  
-- Flow 1:  
Average throughput: 53.91 Mbit/s  
95th percentile per-packet one-way delay: 42.854 ms  
Loss rate: 0.24%  
-- Flow 2:  
Average throughput: 39.40 Mbit/s  
95th percentile per-packet one-way delay: 44.583 ms  
Loss rate: 1.58%  
-- Flow 3:  
Average throughput: 26.18 Mbit/s  
95th percentile per-packet one-way delay: 27.291 ms  
Loss rate: 0.30%

Run 6: Report of PCC-Expr — Data Link

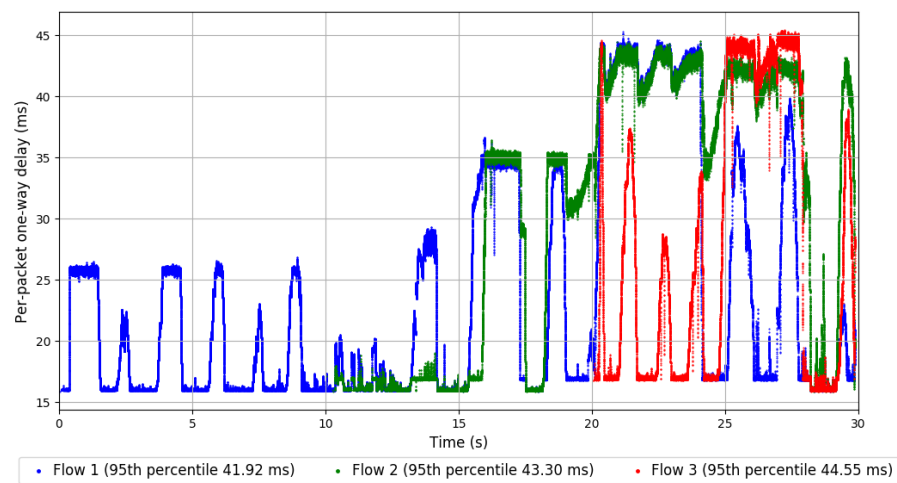
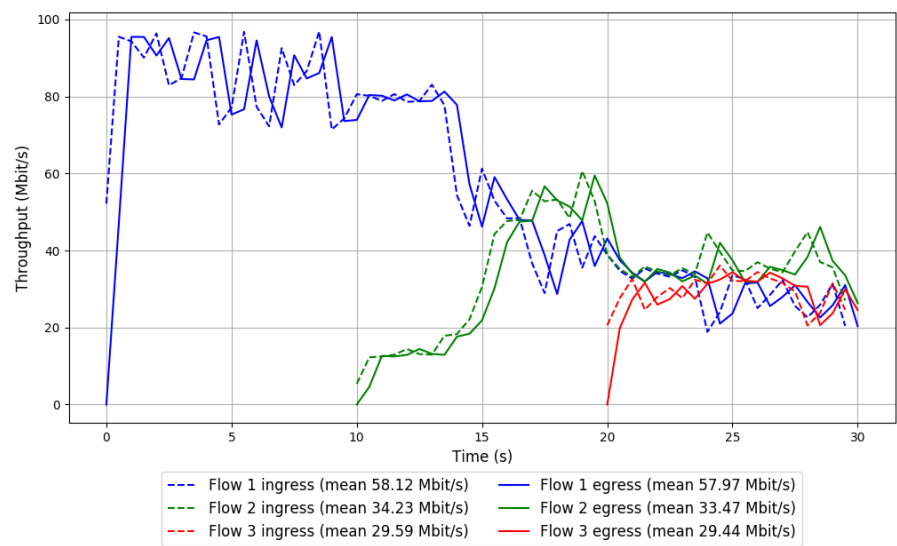


Run 7: Statistics of PCC-Expr

Start at: 2018-07-10 22:35:30  
End at: 2018-07-10 22:36:00  
Local clock offset: 0.637 ms  
Remote clock offset: -6.496 ms

# Below is generated by plot.py at 2018-07-10 23:59:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.93 Mbit/s  
95th percentile per-packet one-way delay: 43.393 ms  
Loss rate: 0.88%  
-- Flow 1:  
Average throughput: 57.97 Mbit/s  
95th percentile per-packet one-way delay: 41.925 ms  
Loss rate: 0.33%  
-- Flow 2:  
Average throughput: 33.47 Mbit/s  
95th percentile per-packet one-way delay: 43.295 ms  
Loss rate: 2.34%  
-- Flow 3:  
Average throughput: 29.44 Mbit/s  
95th percentile per-packet one-way delay: 44.546 ms  
Loss rate: 0.74%

Run 7: Report of PCC-Expr — Data Link



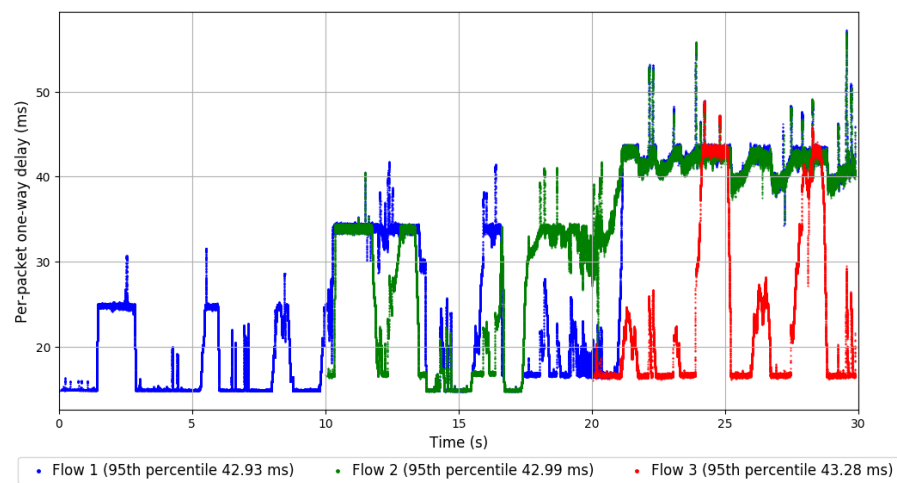
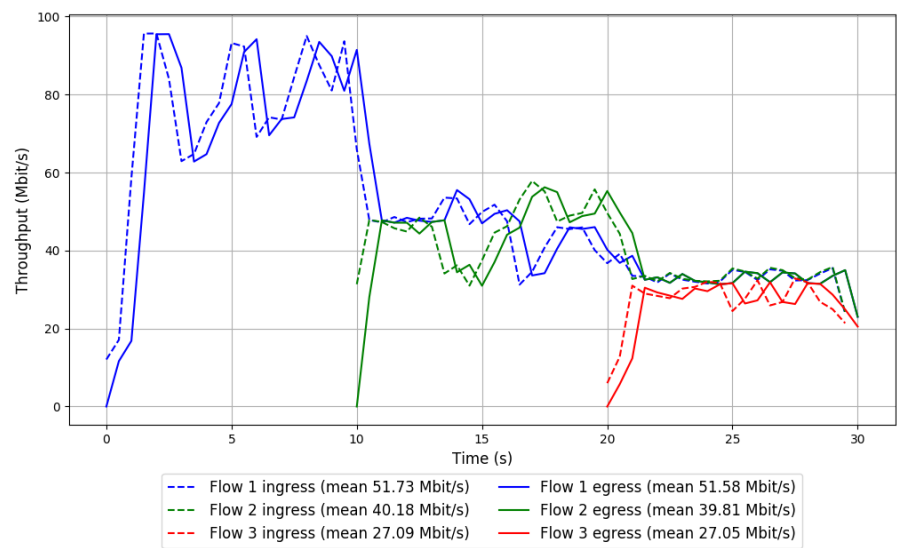
Run 8: Statistics of PCC-Expr

Start at: 2018-07-10 22:56:03  
End at: 2018-07-10 22:56:33  
Local clock offset: -3.937 ms  
Remote clock offset: -11.289 ms

# Below is generated by plot.py at 2018-07-10 23:59:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.96 Mbit/s  
95th percentile per-packet one-way delay: 43.012 ms  
Loss rate: 0.62%  
-- Flow 1:  
Average throughput: 51.58 Mbit/s  
95th percentile per-packet one-way delay: 42.932 ms  
Loss rate: 0.41%  
-- Flow 2:  
Average throughput: 39.81 Mbit/s  
95th percentile per-packet one-way delay: 42.987 ms  
Loss rate: 1.10%  
-- Flow 3:  
Average throughput: 27.05 Mbit/s  
95th percentile per-packet one-way delay: 43.282 ms  
Loss rate: 0.41%



Run 8: Report of PCC-Expr — Data Link

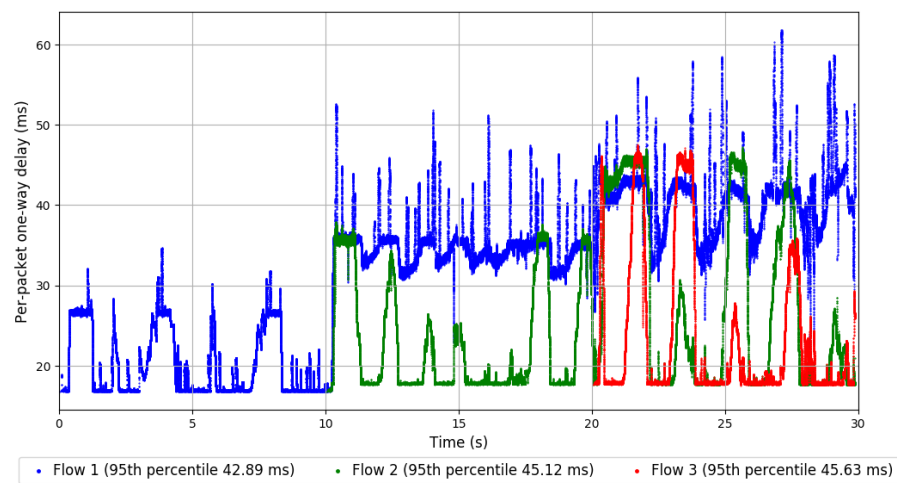
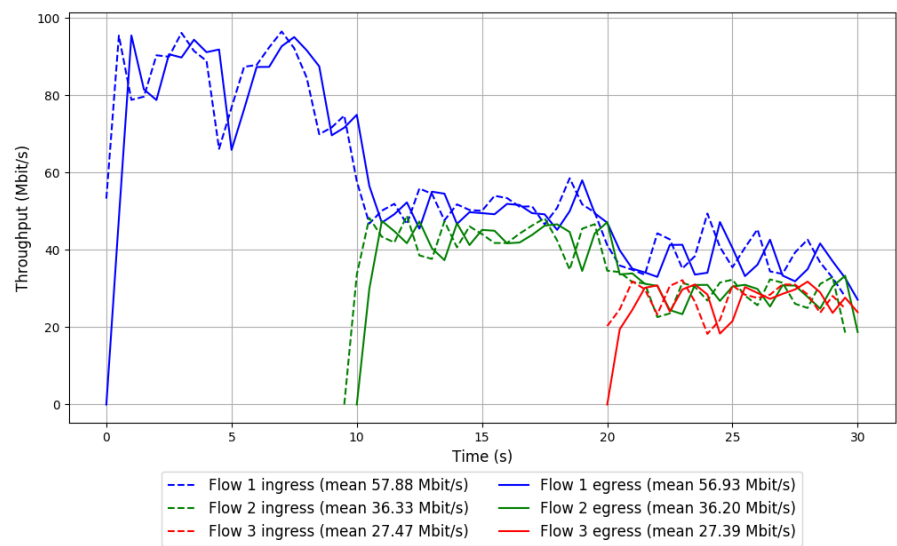


Run 9: Statistics of PCC-Expr

Start at: 2018-07-10 23:16:08  
End at: 2018-07-10 23:16:38  
Local clock offset: 1.427 ms  
Remote clock offset: -12.103 ms

# Below is generated by plot.py at 2018-07-10 23:59:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.04 Mbit/s  
95th percentile per-packet one-way delay: 43.685 ms  
Loss rate: 1.28%  
-- Flow 1:  
Average throughput: 56.93 Mbit/s  
95th percentile per-packet one-way delay: 42.892 ms  
Loss rate: 1.74%  
-- Flow 2:  
Average throughput: 36.20 Mbit/s  
95th percentile per-packet one-way delay: 45.119 ms  
Loss rate: 0.46%  
-- Flow 3:  
Average throughput: 27.39 Mbit/s  
95th percentile per-packet one-way delay: 45.633 ms  
Loss rate: 0.51%

Run 9: Report of PCC-Expr — Data Link

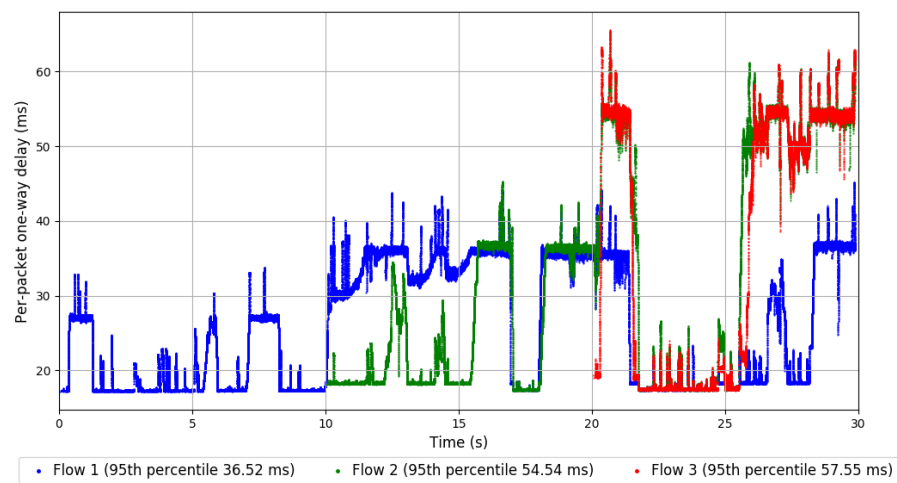
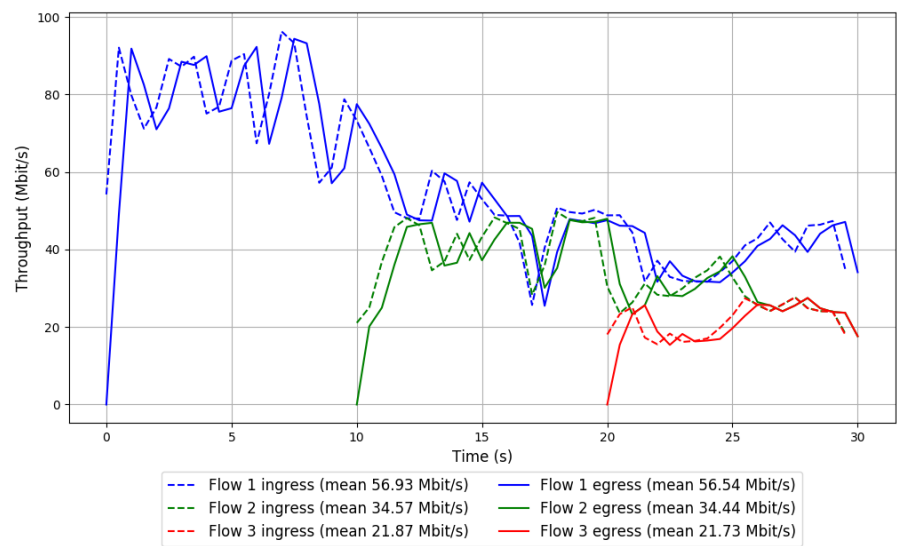


Run 10: Statistics of PCC-Expr

Start at: 2018-07-10 23:36:44  
End at: 2018-07-10 23:37:14  
Local clock offset: 1.153 ms  
Remote clock offset: -11.029 ms

# Below is generated by plot.py at 2018-07-11 00:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.60 Mbit/s  
95th percentile per-packet one-way delay: 54.023 ms  
Loss rate: 0.75%  
-- Flow 1:  
Average throughput: 56.54 Mbit/s  
95th percentile per-packet one-way delay: 36.520 ms  
Loss rate: 0.79%  
-- Flow 2:  
Average throughput: 34.44 Mbit/s  
95th percentile per-packet one-way delay: 54.540 ms  
Loss rate: 0.57%  
-- Flow 3:  
Average throughput: 21.73 Mbit/s  
95th percentile per-packet one-way delay: 57.551 ms  
Loss rate: 1.00%

Run 10: Report of PCC-Expr — Data Link

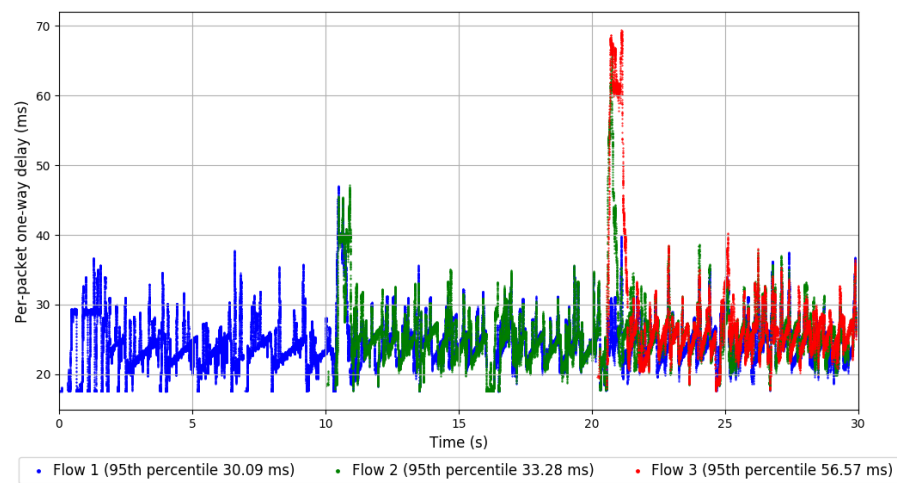
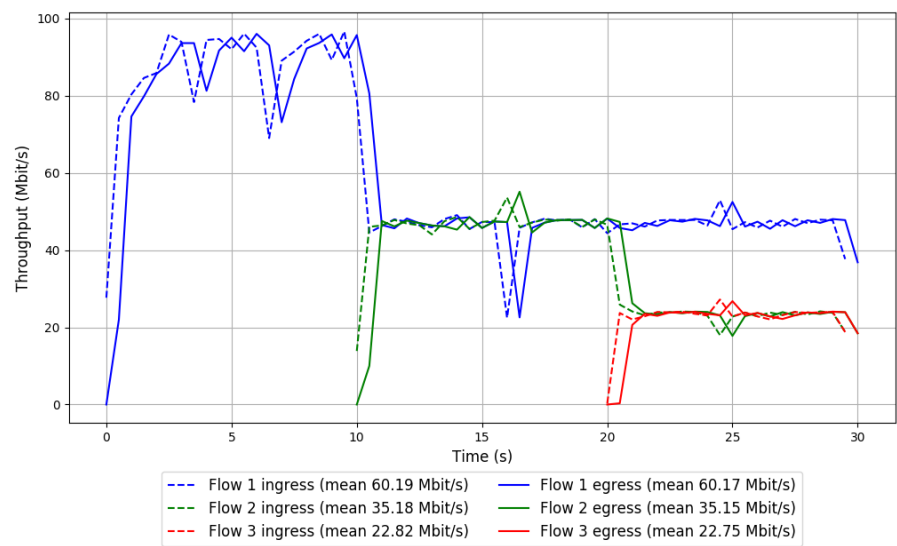


Run 1: Statistics of QUIC Cubic

Start at: 2018-07-10 20:19:37  
End at: 2018-07-10 20:20:07  
Local clock offset: 3.18 ms  
Remote clock offset: -5.348 ms

# Below is generated by plot.py at 2018-07-11 00:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.92 Mbit/s  
95th percentile per-packet one-way delay: 31.484 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 60.17 Mbit/s  
95th percentile per-packet one-way delay: 30.088 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 35.15 Mbit/s  
95th percentile per-packet one-way delay: 33.281 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 22.75 Mbit/s  
95th percentile per-packet one-way delay: 56.570 ms  
Loss rate: 0.53%

Run 1: Report of QUIC Cubic — Data Link



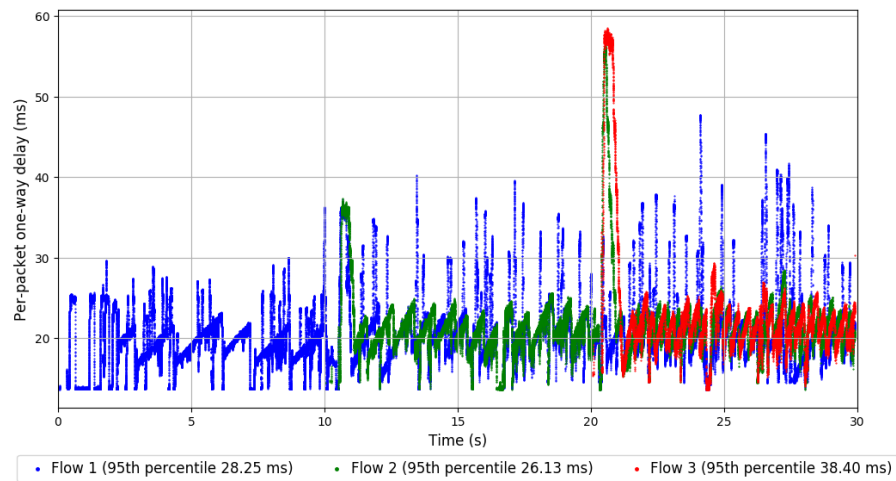
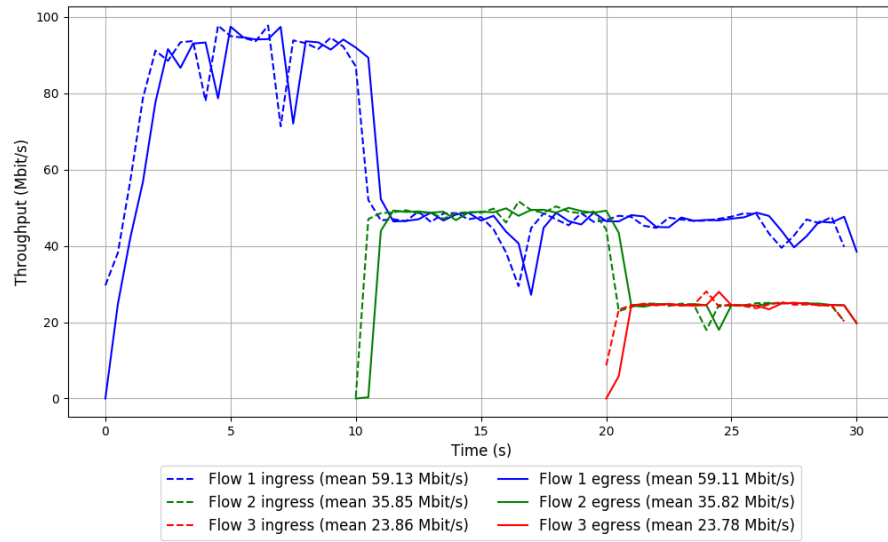
Run 2: Statistics of QUIC Cubic

Start at: 2018-07-10 20:40:06  
End at: 2018-07-10 20:40:36  
Local clock offset: -2.052 ms  
Remote clock offset: -5.563 ms

# Below is generated by plot.py at 2018-07-11 00:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.77 Mbit/s  
95th percentile per-packet one-way delay: 28.228 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 59.11 Mbit/s  
95th percentile per-packet one-way delay: 28.251 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 35.82 Mbit/s  
95th percentile per-packet one-way delay: 26.128 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 23.78 Mbit/s  
95th percentile per-packet one-way delay: 38.398 ms  
Loss rate: 0.51%



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

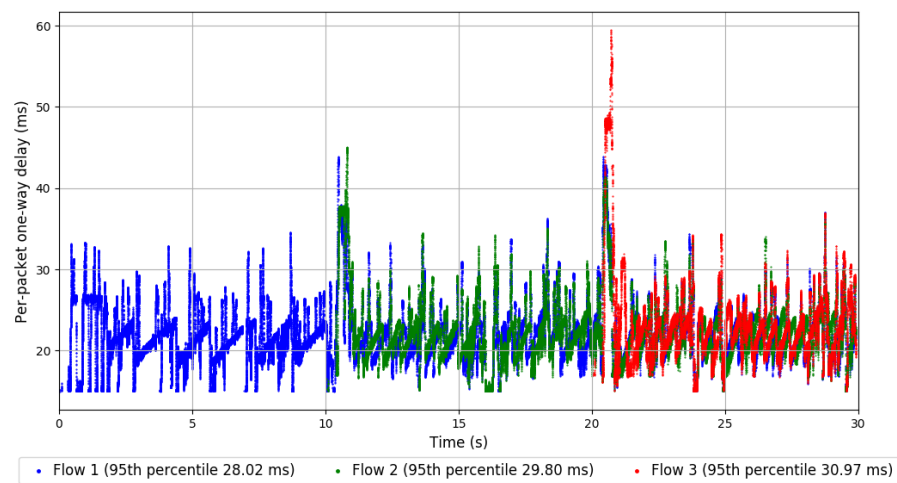
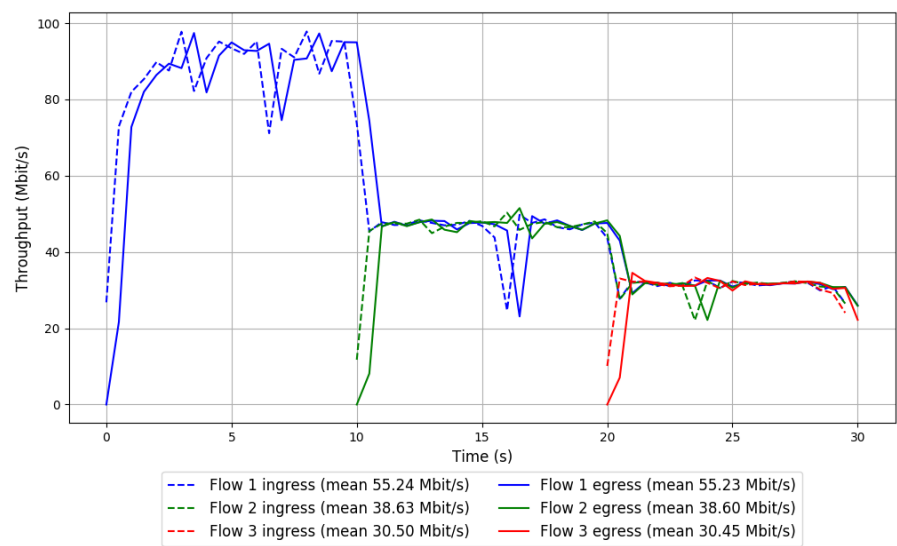


Run 3: Statistics of QUIC Cubic

Start at: 2018-07-10 21:00:57  
End at: 2018-07-10 21:01:27  
Local clock offset: 0.172 ms  
Remote clock offset: -6.964 ms

# Below is generated by plot.py at 2018-07-11 00:00:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.94 Mbit/s  
95th percentile per-packet one-way delay: 28.895 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 55.23 Mbit/s  
95th percentile per-packet one-way delay: 28.016 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 38.60 Mbit/s  
95th percentile per-packet one-way delay: 29.800 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 30.45 Mbit/s  
95th percentile per-packet one-way delay: 30.969 ms  
Loss rate: 0.39%

Run 3: Report of QUIC Cubic — Data Link

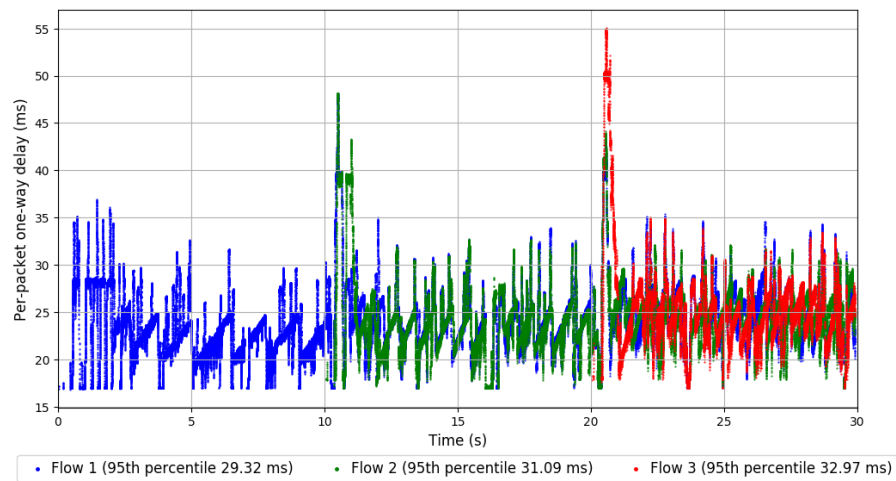
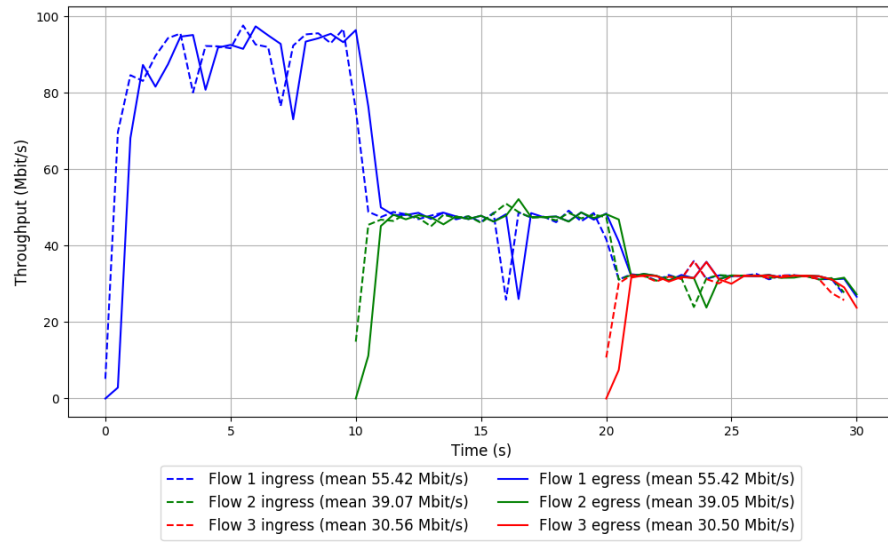


Run 4: Statistics of QUIC Cubic

Start at: 2018-07-10 21:21:24  
End at: 2018-07-10 21:21:54  
Local clock offset: 1.879 ms  
Remote clock offset: -6.253 ms

# Below is generated by plot.py at 2018-07-11 00:00:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.46 Mbit/s  
95th percentile per-packet one-way delay: 30.165 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 55.42 Mbit/s  
95th percentile per-packet one-way delay: 29.319 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 39.05 Mbit/s  
95th percentile per-packet one-way delay: 31.094 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 30.50 Mbit/s  
95th percentile per-packet one-way delay: 32.968 ms  
Loss rate: 0.43%

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

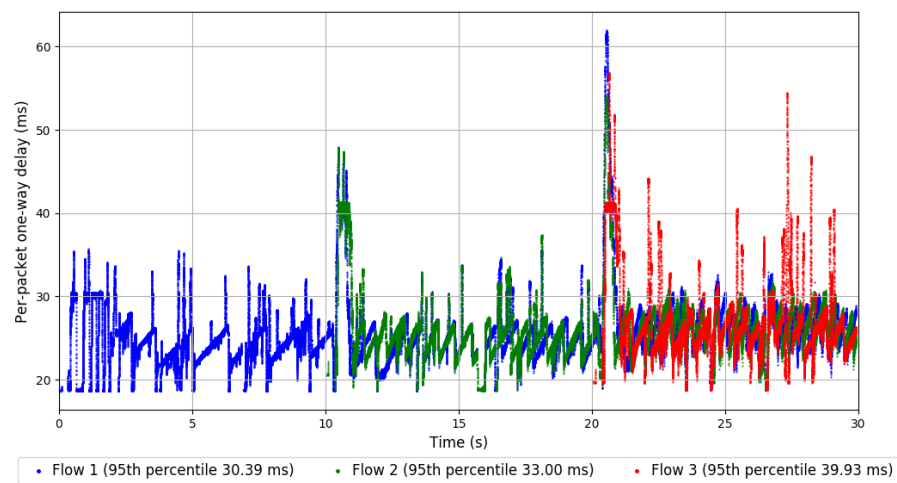
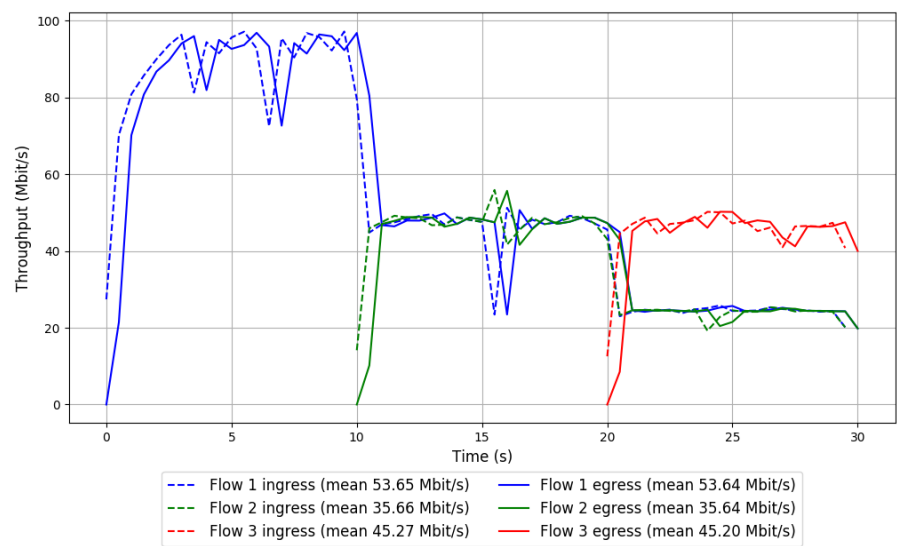


Run 5: Statistics of QUIC Cubic

Start at: 2018-07-10 21:41:48  
End at: 2018-07-10 21:42:18  
Local clock offset: -1.725 ms  
Remote clock offset: -10.735 ms

# Below is generated by plot.py at 2018-07-11 00:00:23  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.25 Mbit/s  
95th percentile per-packet one-way delay: 32.362 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 53.64 Mbit/s  
95th percentile per-packet one-way delay: 30.387 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 35.64 Mbit/s  
95th percentile per-packet one-way delay: 32.998 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 45.20 Mbit/s  
95th percentile per-packet one-way delay: 39.928 ms  
Loss rate: 0.40%

Run 5: Report of QUIC Cubic — Data Link



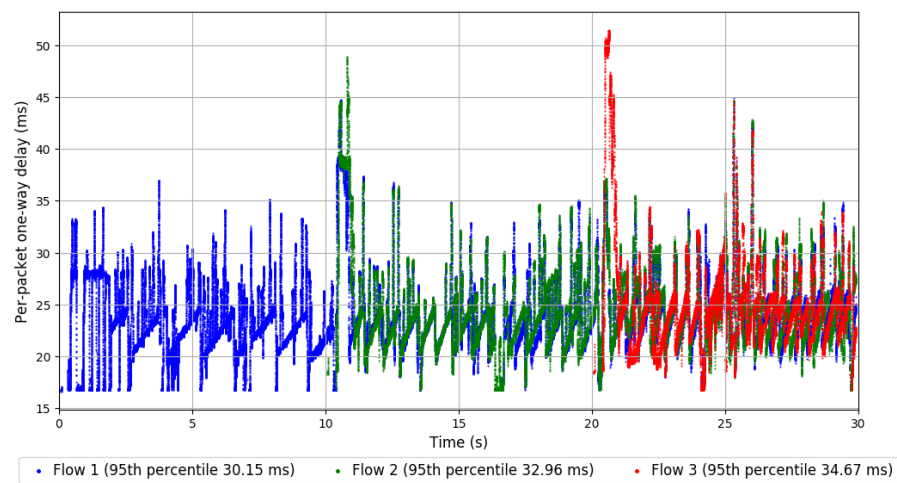
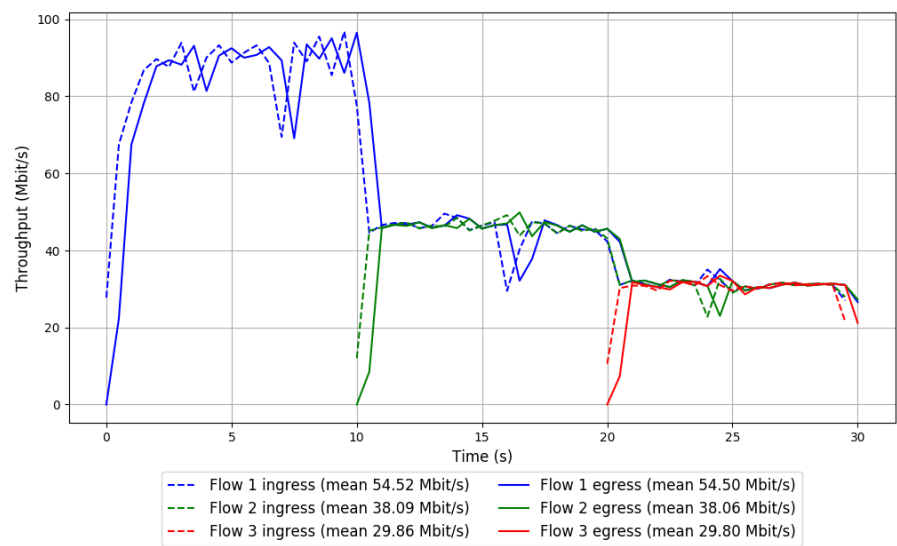
Run 6: Statistics of QUIC Cubic

Start at: 2018-07-10 22:02:17  
End at: 2018-07-10 22:02:47  
Local clock offset: 1.744 ms  
Remote clock offset: -3.974 ms

# Below is generated by plot.py at 2018-07-11 00:00:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.66 Mbit/s  
95th percentile per-packet one-way delay: 31.258 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 54.50 Mbit/s  
95th percentile per-packet one-way delay: 30.147 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 38.06 Mbit/s  
95th percentile per-packet one-way delay: 32.959 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 29.80 Mbit/s  
95th percentile per-packet one-way delay: 34.669 ms  
Loss rate: 0.43%



Run 6: Report of QUIC Cubic — Data Link

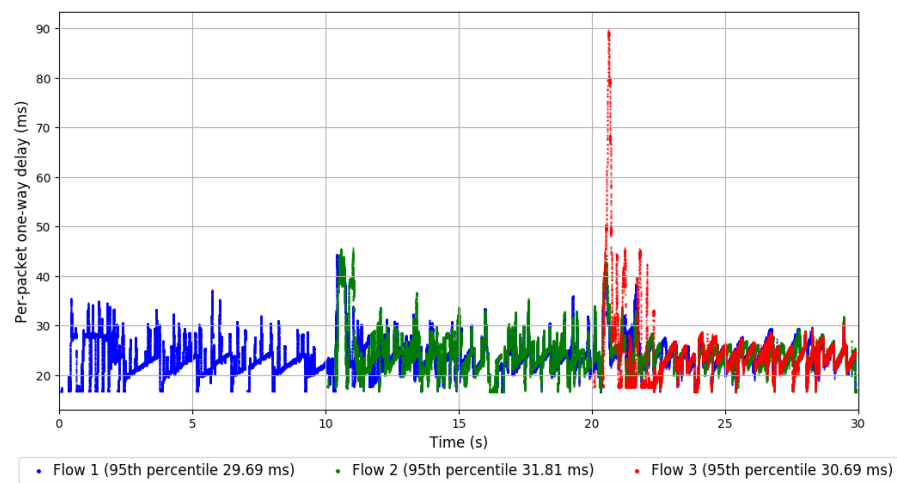
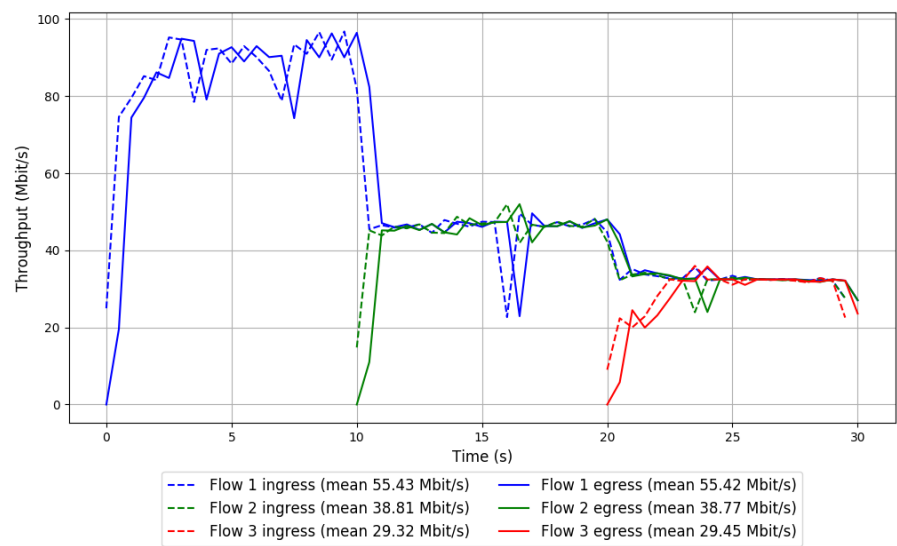


Run 7: Statistics of QUIC Cubic

Start at: 2018-07-10 22:22:36  
End at: 2018-07-10 22:23:06  
Local clock offset: 2.171 ms  
Remote clock offset: -3.304 ms

# Below is generated by plot.py at 2018-07-11 00:00:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.88 Mbit/s  
95th percentile per-packet one-way delay: 30.150 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 55.42 Mbit/s  
95th percentile per-packet one-way delay: 29.691 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 38.77 Mbit/s  
95th percentile per-packet one-way delay: 31.806 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 29.45 Mbit/s  
95th percentile per-packet one-way delay: 30.691 ms  
Loss rate: 0.21%

Run 7: Report of QUIC Cubic — Data Link

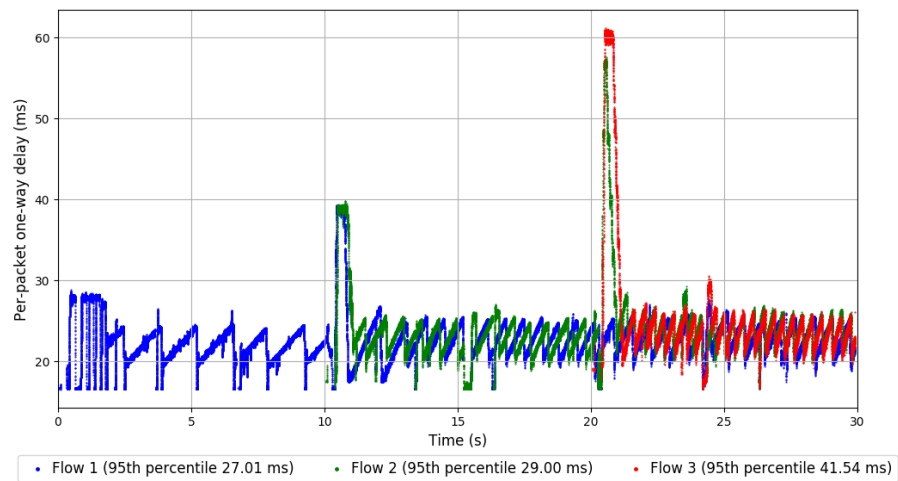
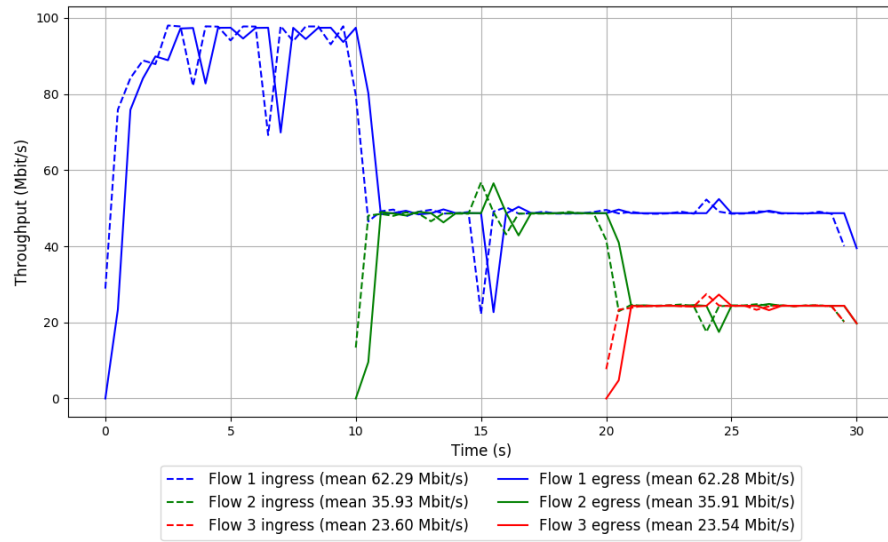


Run 8: Statistics of QUIC Cubic

Start at: 2018-07-10 22:43:04  
End at: 2018-07-10 22:43:34  
Local clock offset: 1.863 ms  
Remote clock offset: -6.511 ms

# Below is generated by plot.py at 2018-07-11 00:01:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.91 Mbit/s  
95th percentile per-packet one-way delay: 27.680 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 62.28 Mbit/s  
95th percentile per-packet one-way delay: 27.006 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 35.91 Mbit/s  
95th percentile per-packet one-way delay: 29.005 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 23.54 Mbit/s  
95th percentile per-packet one-way delay: 41.543 ms  
Loss rate: 0.50%

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

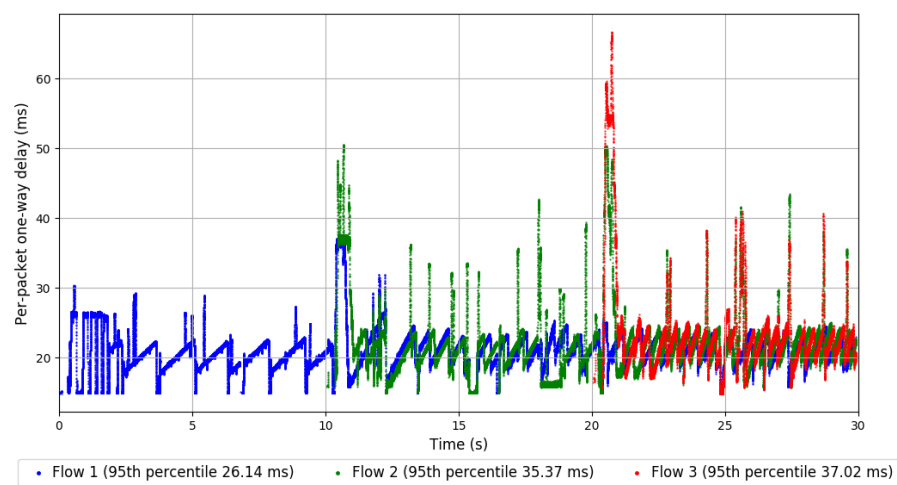
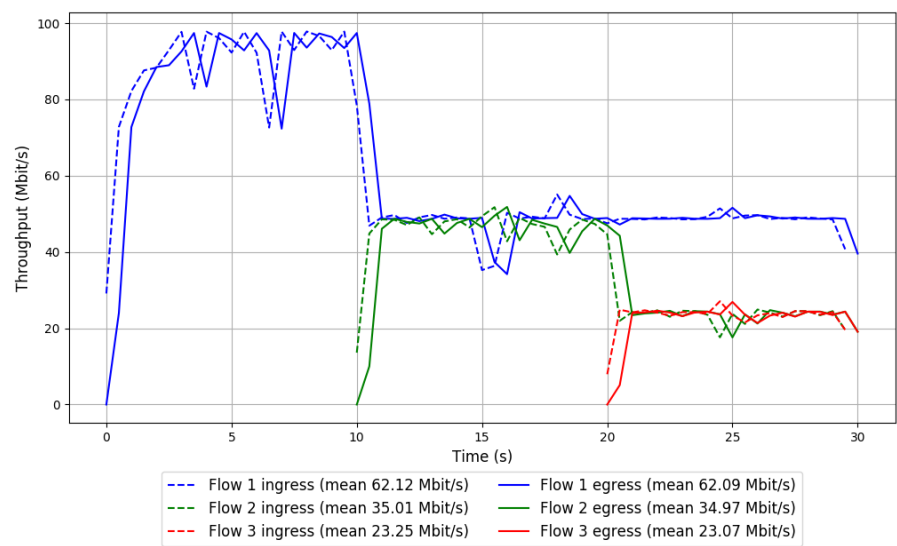


Run 9: Statistics of QUIC Cubic

Start at: 2018-07-10 23:03:19  
End at: 2018-07-10 23:03:49  
Local clock offset: -0.047 ms  
Remote clock offset: -9.817 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.96 Mbit/s  
95th percentile per-packet one-way delay: 26.360 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 62.09 Mbit/s  
95th percentile per-packet one-way delay: 26.144 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 34.97 Mbit/s  
95th percentile per-packet one-way delay: 35.374 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 23.07 Mbit/s  
95th percentile per-packet one-way delay: 37.021 ms  
Loss rate: 1.02%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-07-10 23:23:39

End at: 2018-07-10 23:24:09

Local clock offset: 1.579 ms

Remote clock offset: -12.726 ms

# Below is generated by plot.py at 2018-07-11 00:01:13

# Datalink statistics

-- Total of 3 flows:

Average throughput: 90.90 Mbit/s

95th percentile per-packet one-way delay: 32.744 ms

Loss rate: 0.15%

-- Flow 1:

Average throughput: 52.63 Mbit/s

95th percentile per-packet one-way delay: 30.680 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 34.77 Mbit/s

95th percentile per-packet one-way delay: 35.599 ms

Loss rate: 0.18%

-- Flow 3:

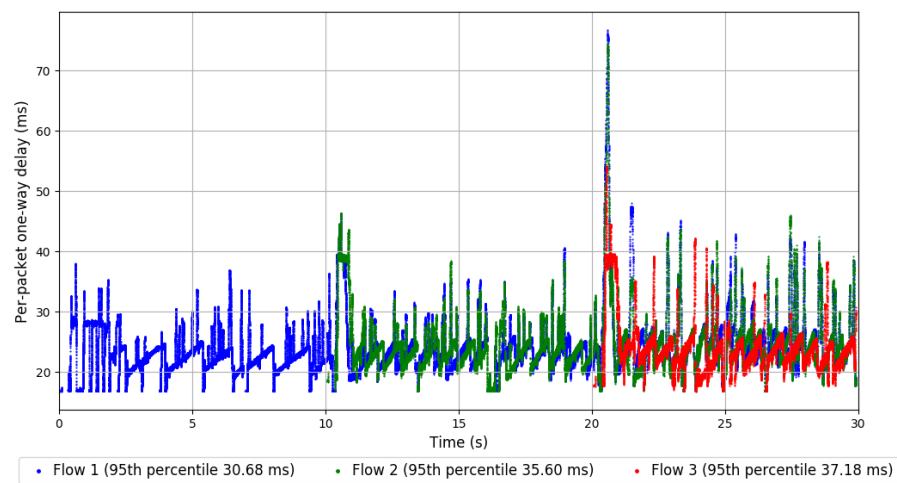
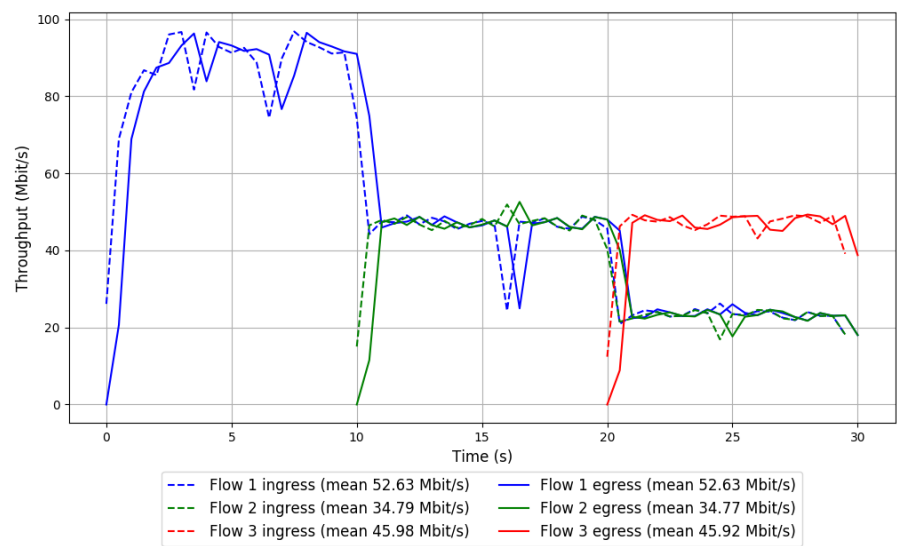
Average throughput: 45.92 Mbit/s

95th percentile per-packet one-way delay: 37.183 ms

Loss rate: 0.35%



Run 10: Report of QUIC Cubic — Data Link

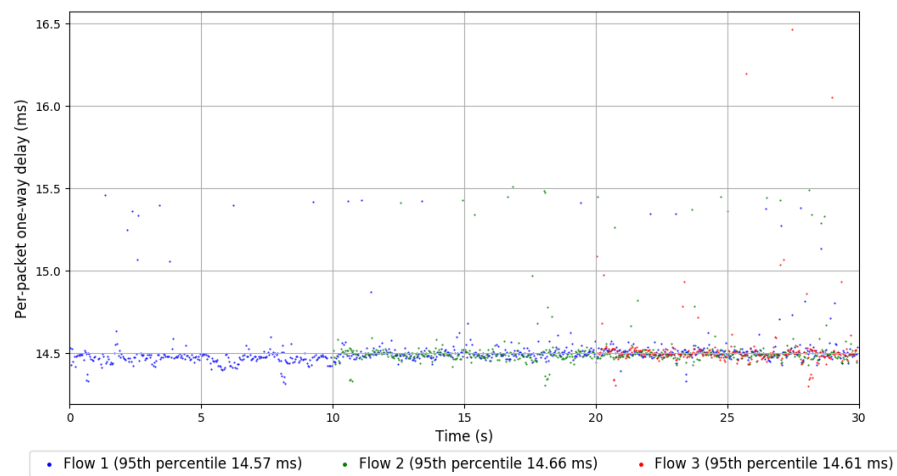
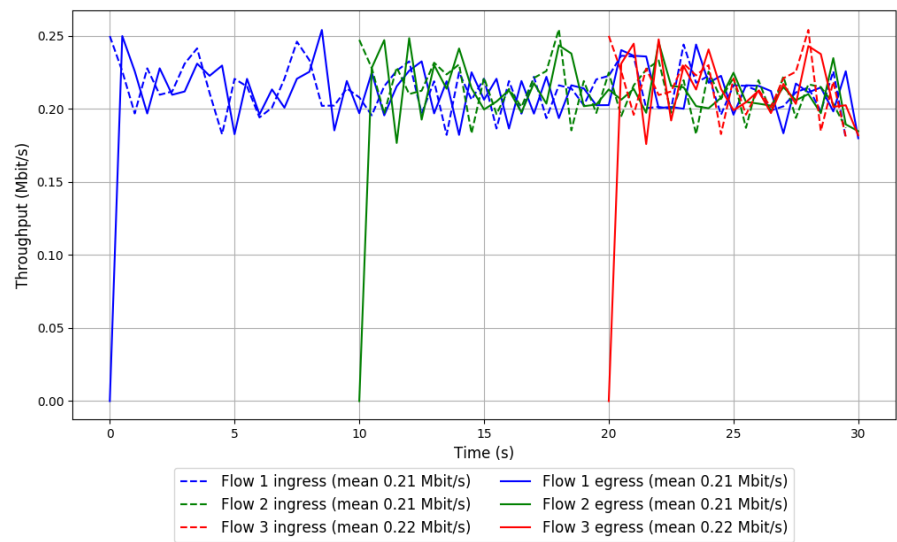


```
Run 1: Statistics of SReAM

Start at: 2018-07-10 20:30:18
End at: 2018-07-10 20:30:48
Local clock offset: -0.666 ms
Remote clock offset: -5.063 ms

# Below is generated by plot.py at 2018-07-11 00:01:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 14.598 ms
Loss rate: 0.12%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.574 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.664 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.613 ms
Loss rate: 0.36%
```

Run 1: Report of SReAM — Data Link

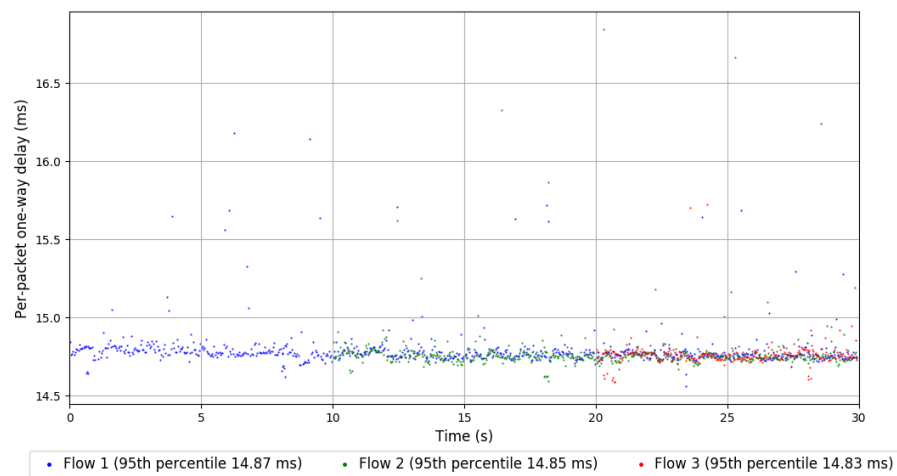
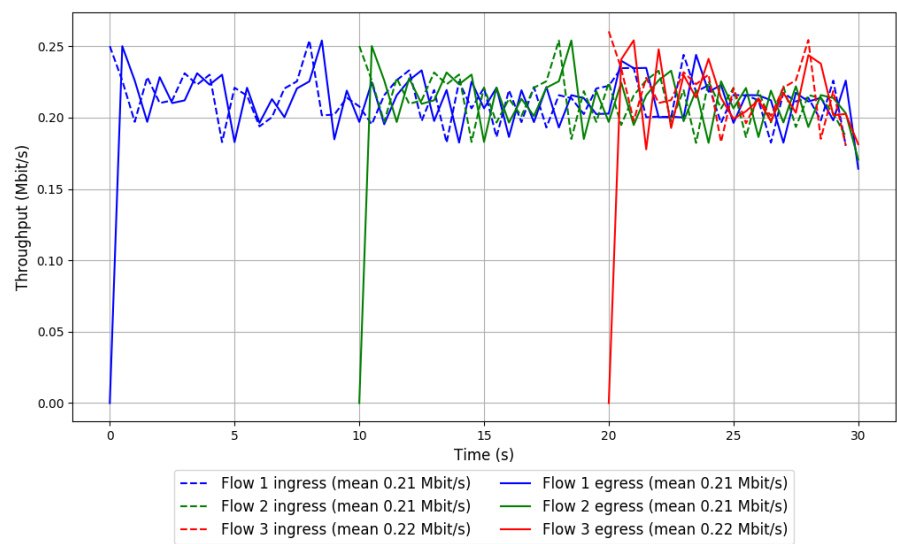


```
Run 2: Statistics of SReAM

Start at: 2018-07-10 20:50:57
End at: 2018-07-10 20:51:27
Local clock offset: -0.614 ms
Remote clock offset: -6.95 ms

# Below is generated by plot.py at 2018-07-11 00:01:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 14.857 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.867 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 14.853 ms
Loss rate: 0.19%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 14.827 ms
Loss rate: 0.35%
```

Run 2: Report of SReAM — Data Link

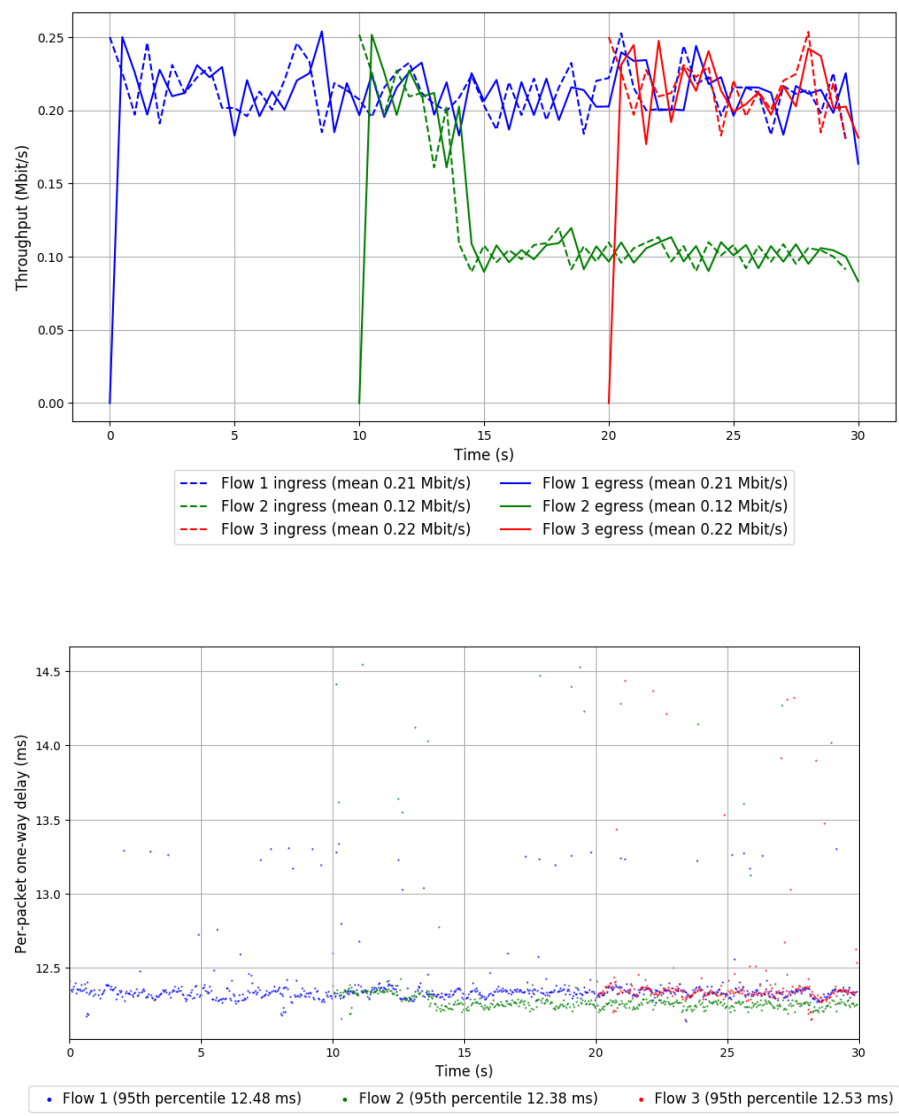


Run 3: Statistics of SCReAM

Start at: 2018-07-10 21:11:30  
End at: 2018-07-10 21:12:00  
Local clock offset: -2.824 ms  
Remote clock offset: -7.387 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.37 Mbit/s  
95th percentile per-packet one-way delay: 12.463 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 12.477 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 12.381 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 12.532 ms  
Loss rate: 0.36%

Run 3: Report of SReAM — Data Link



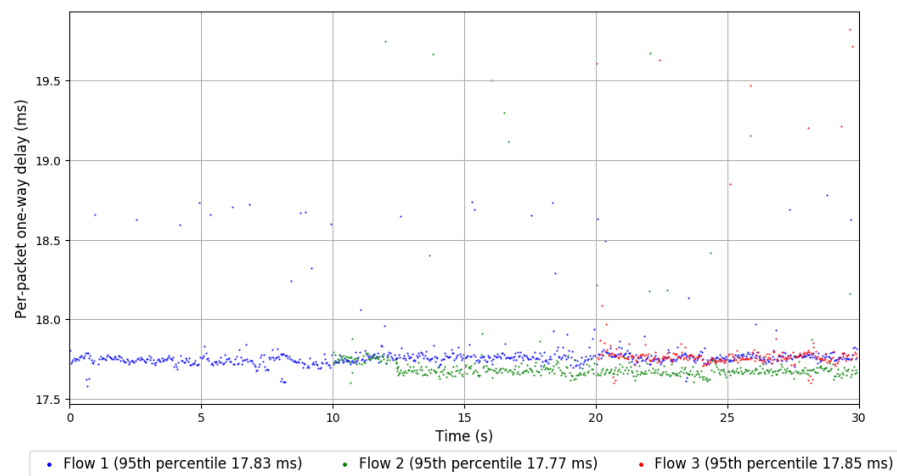
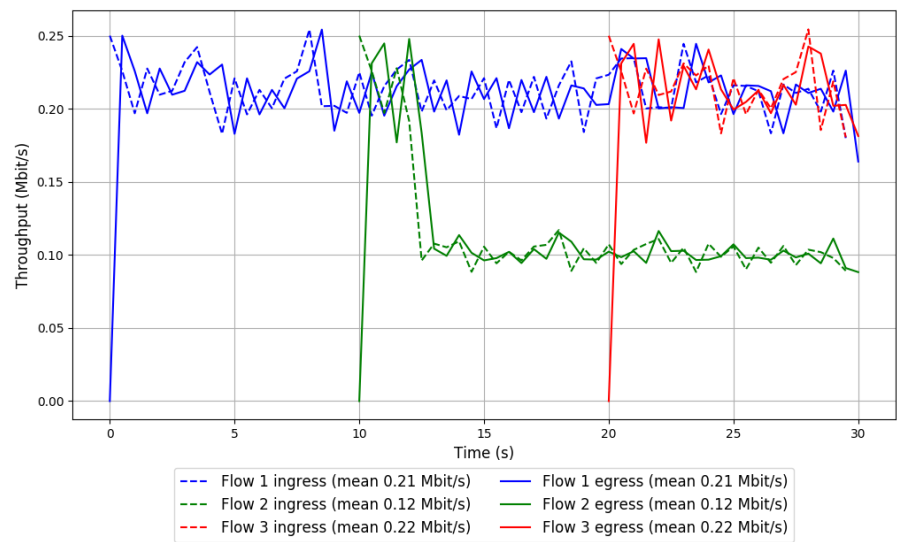
Run 4: Statistics of SCReAM

Start at: 2018-07-10 21:32:05  
End at: 2018-07-10 21:32:35  
Local clock offset: 2.41 ms  
Remote clock offset: -5.854 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.36 Mbit/s  
95th percentile per-packet one-way delay: 17.829 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.834 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.12 Mbit/s  
95th percentile per-packet one-way delay: 17.773 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.850 ms  
Loss rate: 0.36%



Run 4: Report of SReAM — Data Link

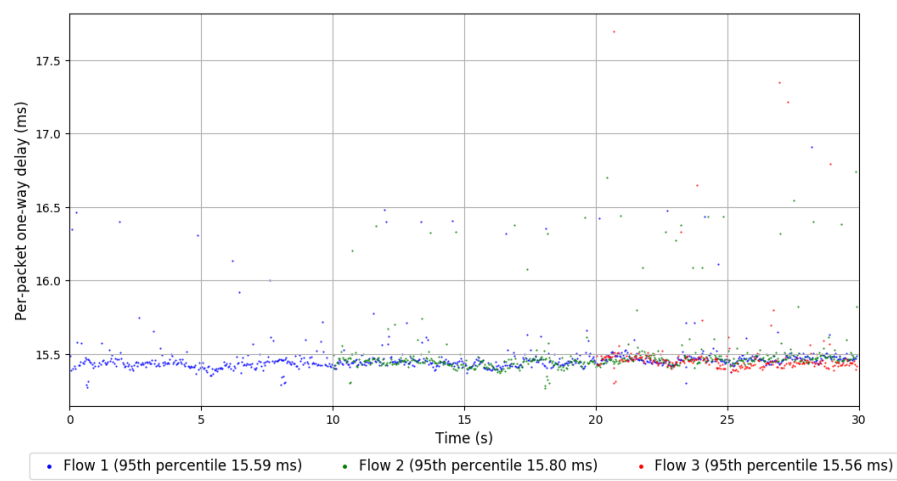
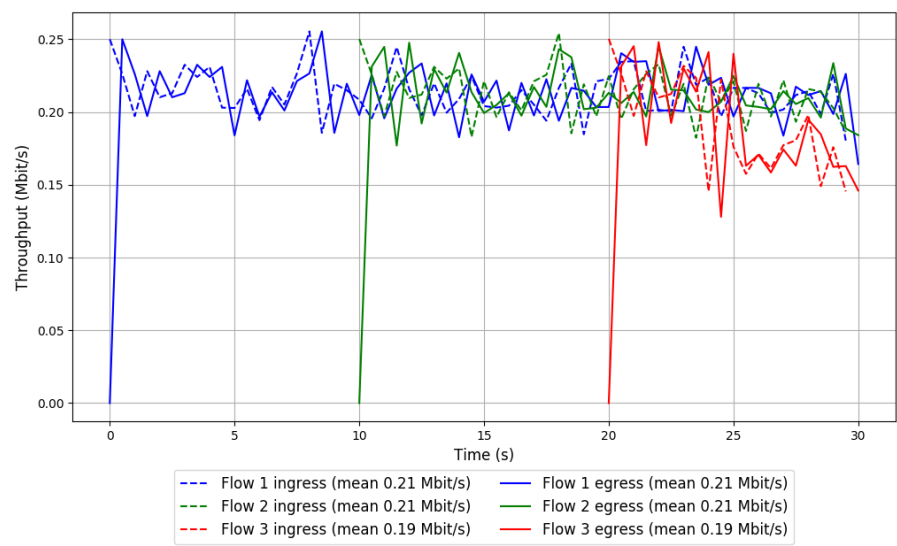


Run 5: Statistics of SReAM

Start at: 2018-07-10 21:52:33  
End at: 2018-07-10 21:53:03  
Local clock offset: 0.178 ms  
Remote clock offset: -4.798 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.42 Mbit/s  
95th percentile per-packet one-way delay: 15.604 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.589 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.798 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.19 Mbit/s  
95th percentile per-packet one-way delay: 15.561 ms  
Loss rate: 0.32%

Run 5: Report of SReAM — Data Link

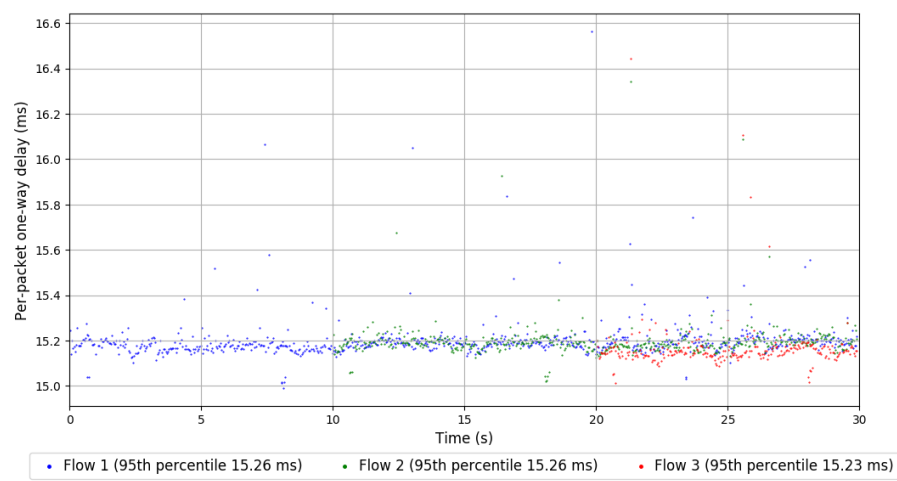
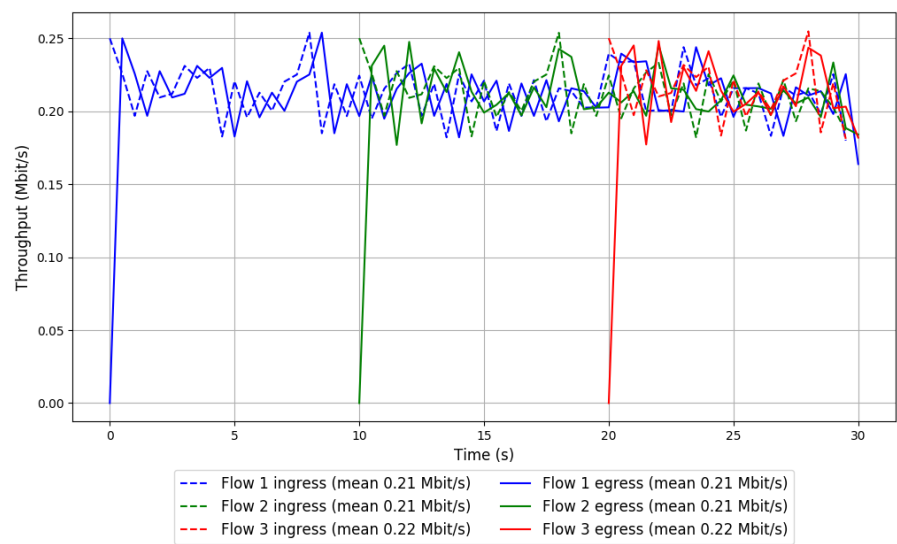


Run 6: Statistics of SReAM

Start at: 2018-07-10 22:12:54  
End at: 2018-07-10 22:13:24  
Local clock offset: 0.254 ms  
Remote clock offset: -3.428 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 15.255 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.259 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.255 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 15.231 ms  
Loss rate: 0.36%

Run 6: Report of SReAM — Data Link

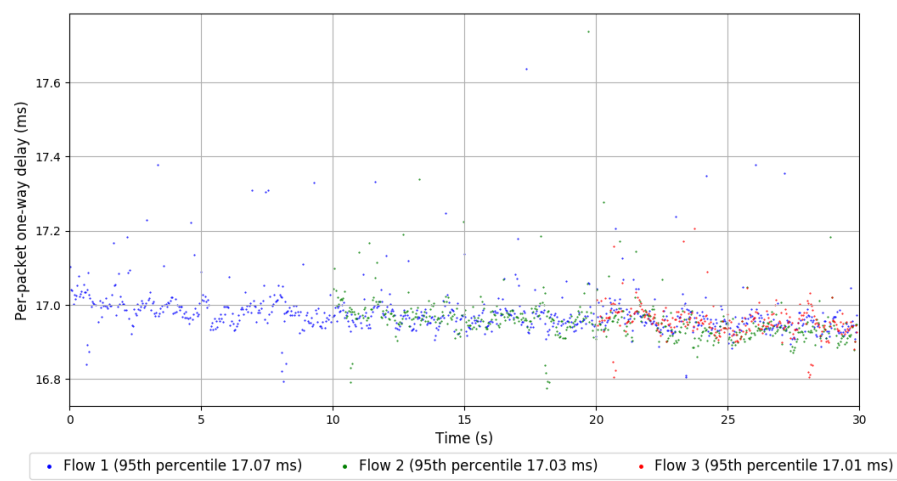
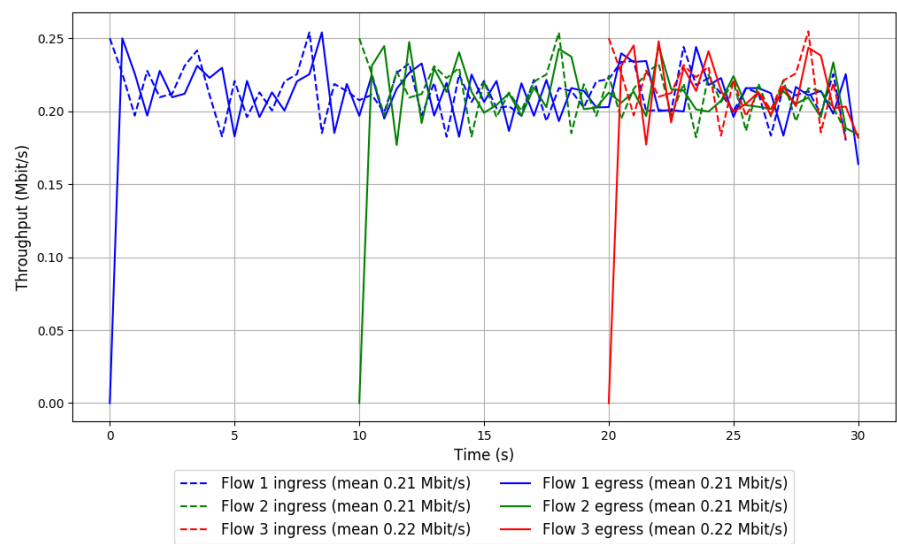


Run 7: Statistics of SReAM

Start at: 2018-07-10 22:33:12  
End at: 2018-07-10 22:33:42  
Local clock offset: 1.982 ms  
Remote clock offset: -5.897 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 17.046 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.068 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.031 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.013 ms  
Loss rate: 0.36%

Run 7: Report of SReAM — Data Link



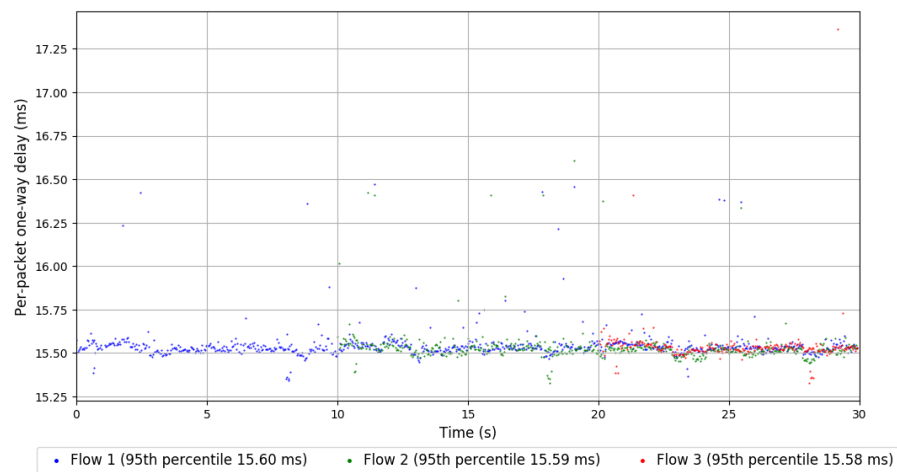
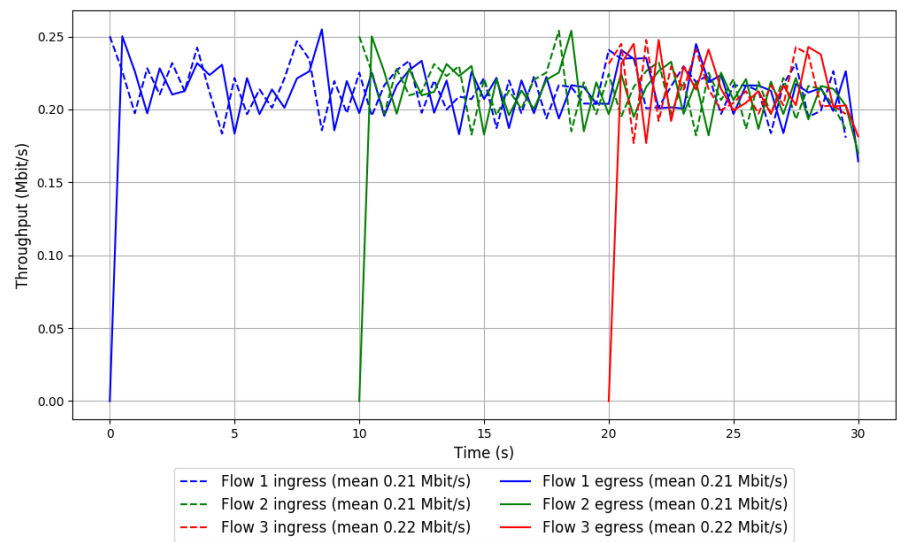
Run 8: Statistics of SReAM

Start at: 2018-07-10 22:53:43  
End at: 2018-07-10 22:54:13  
Local clock offset: 0.311 ms  
Remote clock offset: -7.471 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 15.590 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.599 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.587 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 15.580 ms  
Loss rate: 0.36%



Run 8: Report of SReAM — Data Link

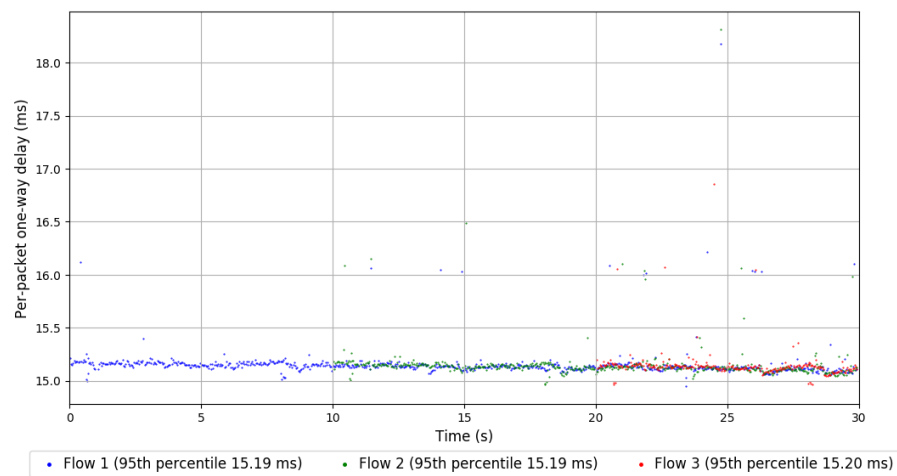
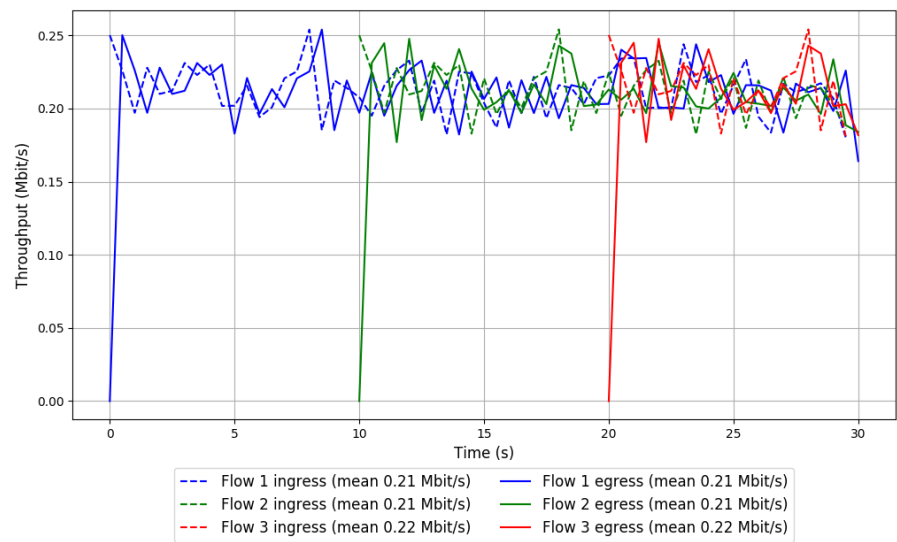


Run 9: Statistics of SReAM

Start at: 2018-07-10 23:13:50  
End at: 2018-07-10 23:14:20  
Local clock offset: -0.62 ms  
Remote clock offset: -12.157 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 15.195 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.194 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 15.193 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 15.199 ms  
Loss rate: 0.36%

Run 9: Report of SReAM — Data Link

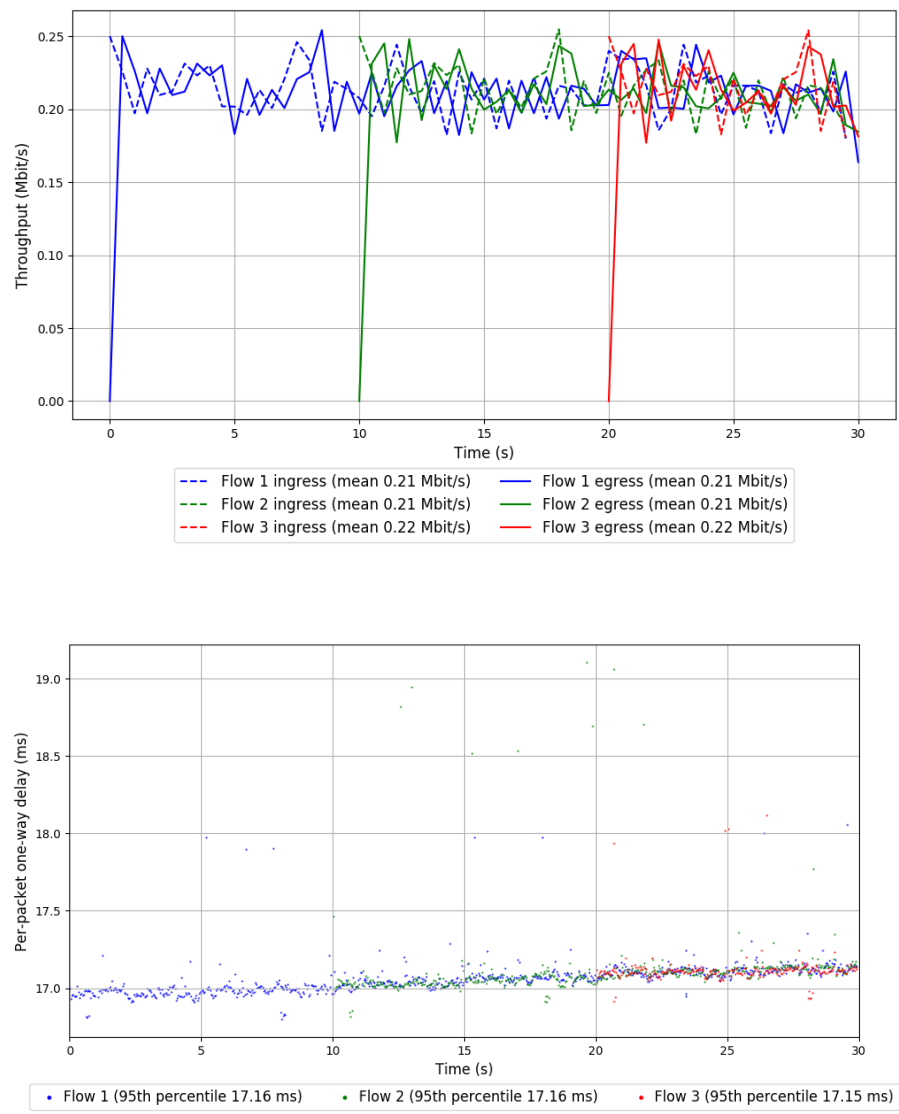


Run 10: Statistics of SReAM

Start at: 2018-07-10 23:34:26  
End at: 2018-07-10 23:34:56  
Local clock offset: 1.69 ms  
Remote clock offset: -10.914 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 17.162 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.160 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 17.164 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 17.152 ms  
Loss rate: 0.36%

Run 10: Report of SCReAM — Data Link

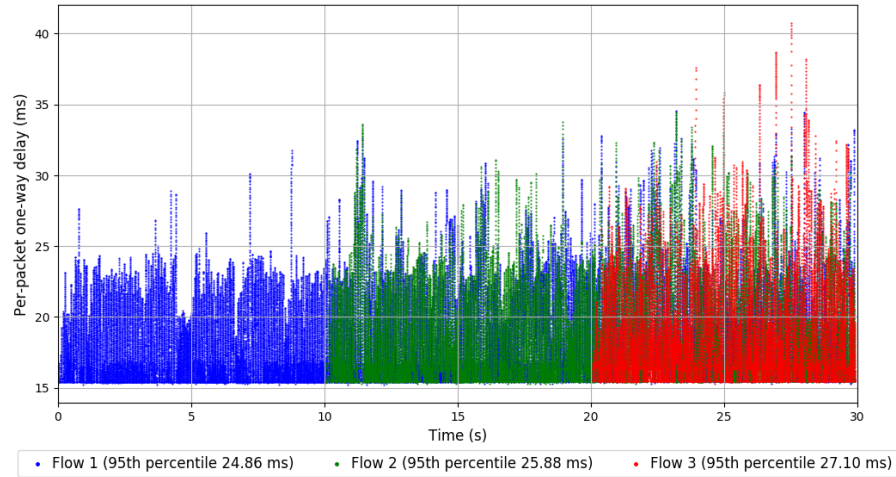
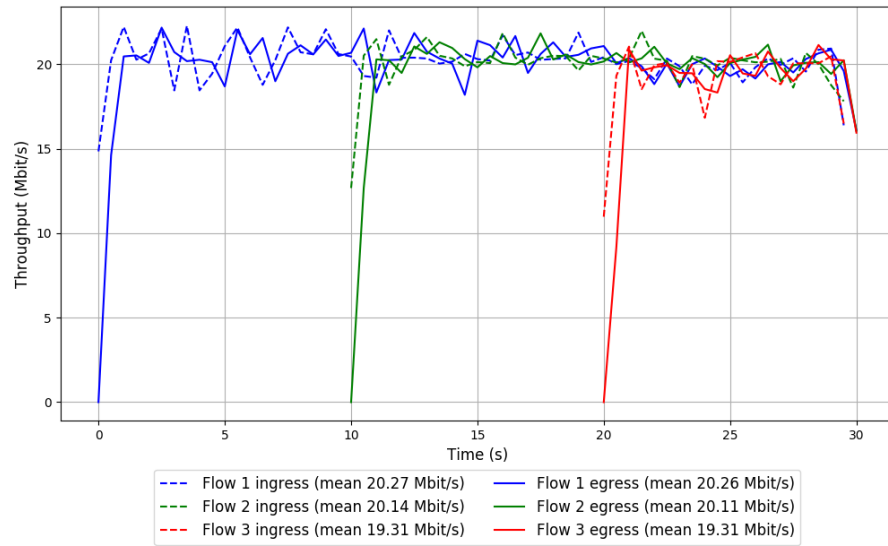


Run 1: Statistics of Sprout

Start at: 2018-07-10 20:20:51  
End at: 2018-07-10 20:21:21  
Local clock offset: 0.357 ms  
Remote clock offset: -5.794 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.00 Mbit/s  
95th percentile per-packet one-way delay: 25.653 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 20.26 Mbit/s  
95th percentile per-packet one-way delay: 24.864 ms  
Loss rate: 0.16%  
-- Flow 2:  
Average throughput: 20.11 Mbit/s  
95th percentile per-packet one-way delay: 25.875 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 19.31 Mbit/s  
95th percentile per-packet one-way delay: 27.102 ms  
Loss rate: 0.21%

# Run 1: Report of Sprout — Data Link



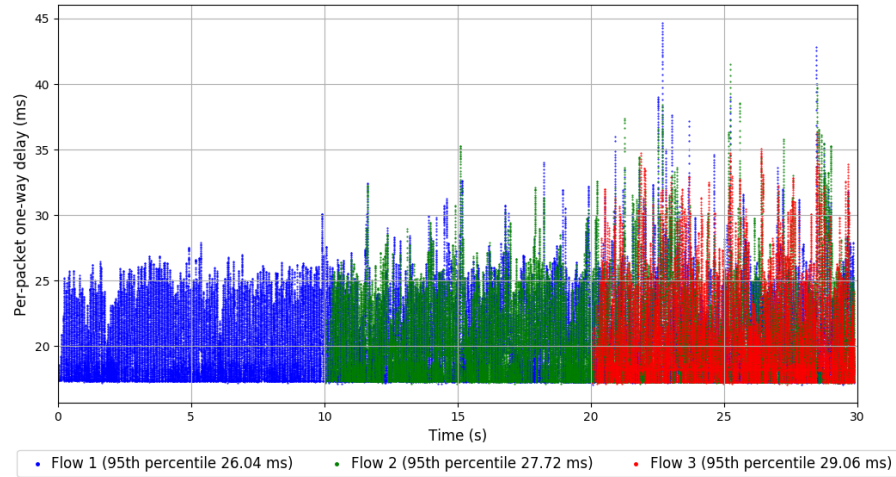
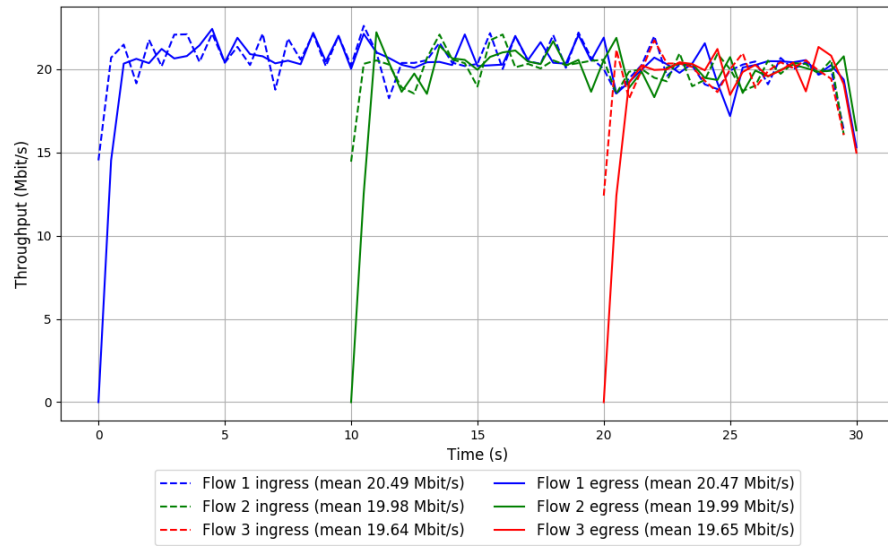
## Run 2: Statistics of Sprout

Start at: 2018-07-10 20:41:19  
End at: 2018-07-10 20:41:49  
Local clock offset: 1.877 ms  
Remote clock offset: -5.533 ms

```
# Below is generated by plot.py at 2018-07-11 00:01:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 27.167 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 20.47 Mbit/s
95th percentile per-packet one-way delay: 26.038 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 19.99 Mbit/s
95th percentile per-packet one-way delay: 27.723 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 19.65 Mbit/s
95th percentile per-packet one-way delay: 29.062 ms
Loss rate: 0.37%
```



## Run 2: Report of Sprout — Data Link

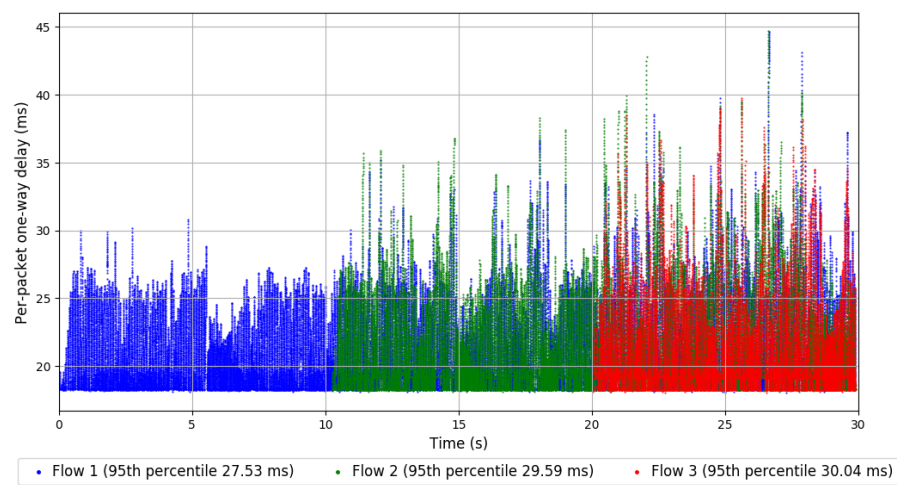
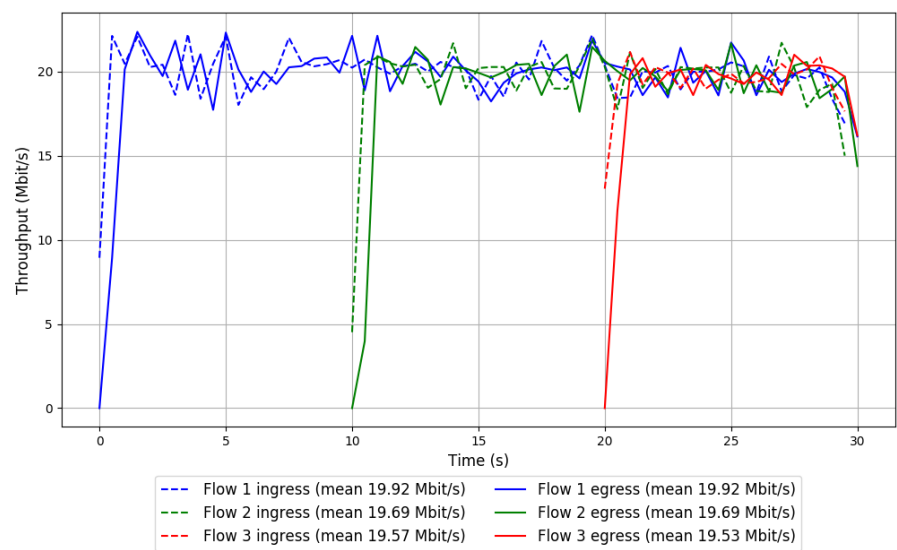


Run 3: Statistics of Sprout

Start at: 2018-07-10 21:02:09  
End at: 2018-07-10 21:02:39  
Local clock offset: 3.001 ms  
Remote clock offset: -7.346 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.30 Mbit/s  
95th percentile per-packet one-way delay: 28.682 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 19.92 Mbit/s  
95th percentile per-packet one-way delay: 27.534 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 19.69 Mbit/s  
95th percentile per-packet one-way delay: 29.585 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 19.53 Mbit/s  
95th percentile per-packet one-way delay: 30.044 ms  
Loss rate: 0.45%

Run 3: Report of Sprout — Data Link

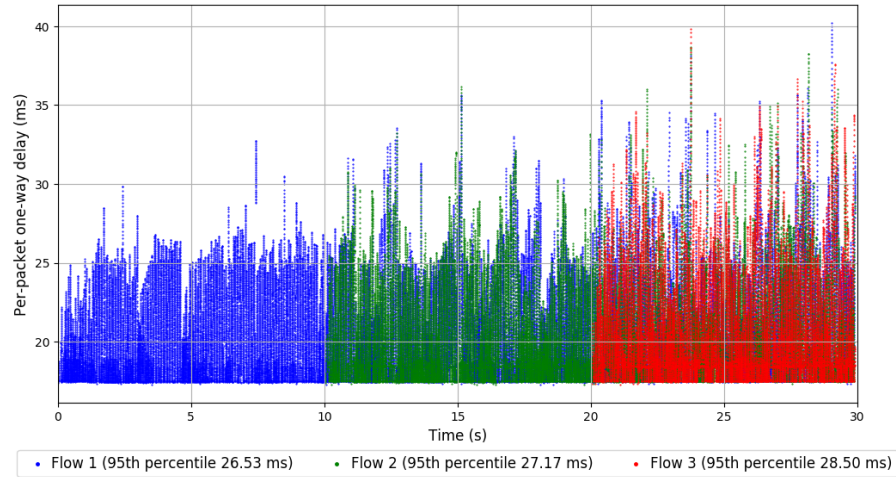
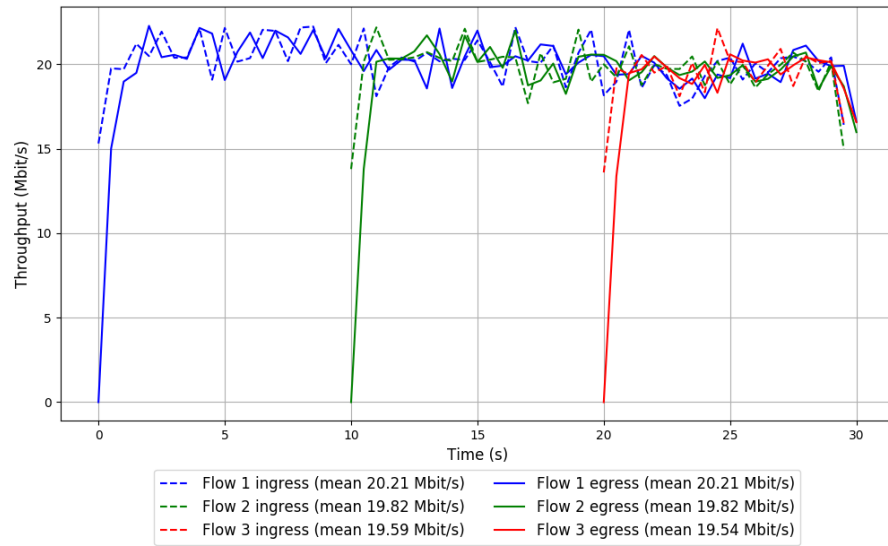


Run 4: Statistics of Sprout

Start at: 2018-07-10 21:22:37  
End at: 2018-07-10 21:23:07  
Local clock offset: 1.621 ms  
Remote clock offset: -6.872 ms

# Below is generated by plot.py at 2018-07-11 00:01:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.84 Mbit/s  
95th percentile per-packet one-way delay: 27.116 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 20.21 Mbit/s  
95th percentile per-packet one-way delay: 26.526 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 19.82 Mbit/s  
95th percentile per-packet one-way delay: 27.174 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 19.54 Mbit/s  
95th percentile per-packet one-way delay: 28.505 ms  
Loss rate: 0.49%

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

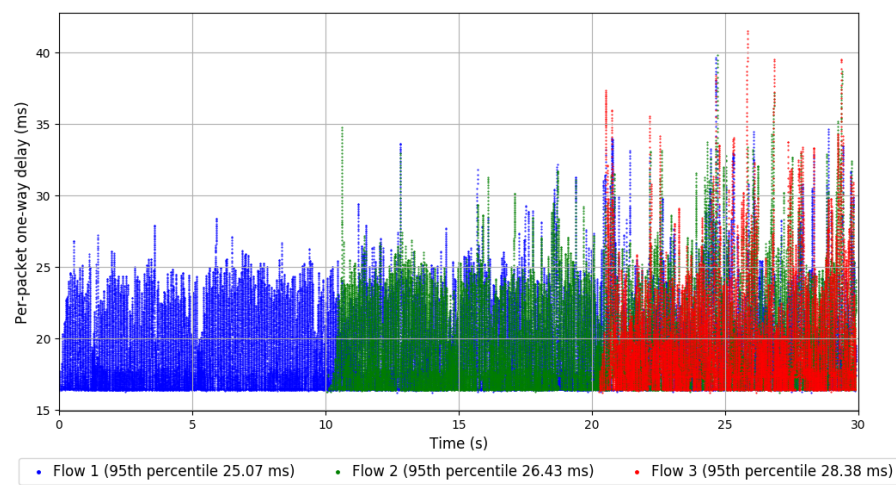
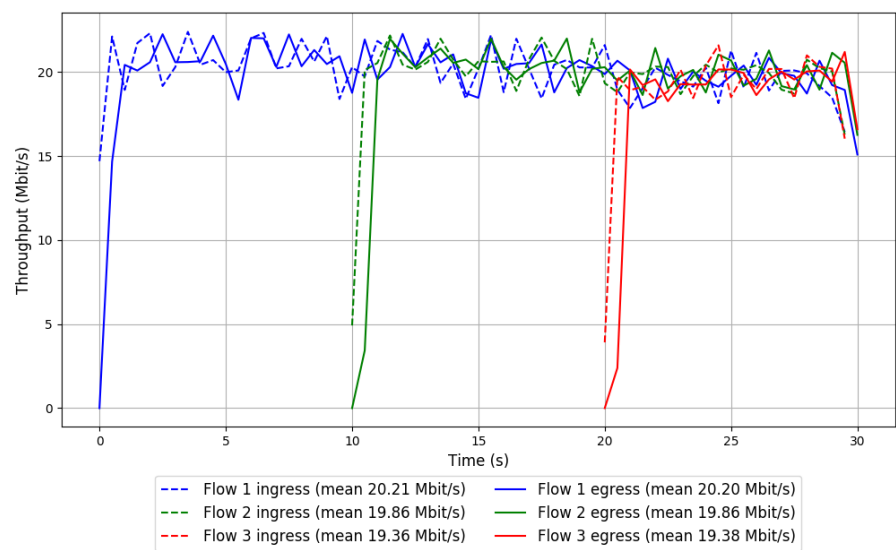


Run 5: Statistics of Sprout

Start at: 2018-07-10 21:42:59  
End at: 2018-07-10 21:43:29  
Local clock offset: 1.568 ms  
Remote clock offset: -5.061 ms

# Below is generated by plot.py at 2018-07-11 00:01:20  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 39.64 Mbit/s  
95th percentile per-packet one-way delay: 26.060 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 20.20 Mbit/s  
95th percentile per-packet one-way delay: 25.065 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 19.86 Mbit/s  
95th percentile per-packet one-way delay: 26.429 ms  
Loss rate: 0.04%  
-- Flow 3:  
Average throughput: 19.38 Mbit/s  
95th percentile per-packet one-way delay: 28.379 ms  
Loss rate: 0.10%

Run 5: Report of Sprout — Data Link



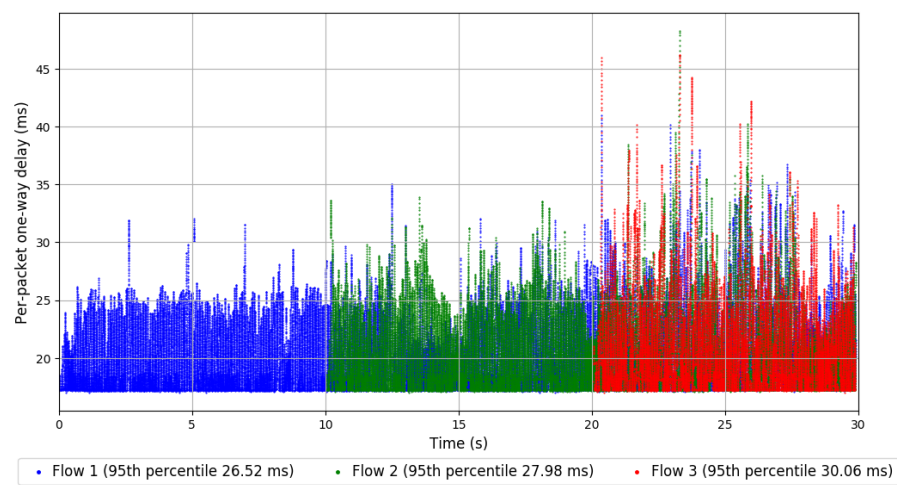
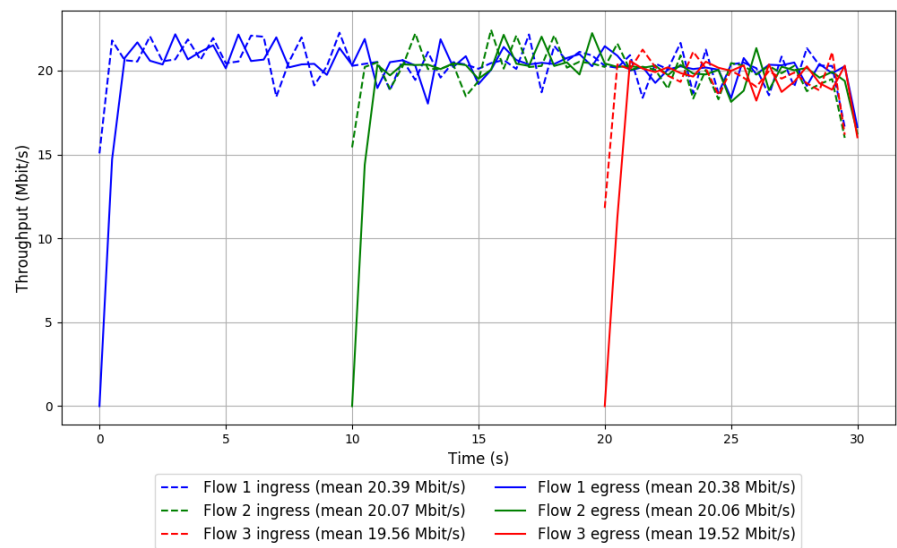
Run 6: Statistics of Sprout

Start at: 2018-07-10 22:03:28  
End at: 2018-07-10 22:03:58  
Local clock offset: 1.465 ms  
Remote clock offset: -4.599 ms

```
# Below is generated by plot.py at 2018-07-11 00:01:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 40.14 Mbit/s
95th percentile per-packet one-way delay: 27.683 ms
Loss rate: 0.15%
-- Flow 1:
Average throughput: 20.38 Mbit/s
95th percentile per-packet one-way delay: 26.518 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 20.06 Mbit/s
95th percentile per-packet one-way delay: 27.984 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 30.058 ms
Loss rate: 0.52%
```



Run 6: Report of Sprout — Data Link

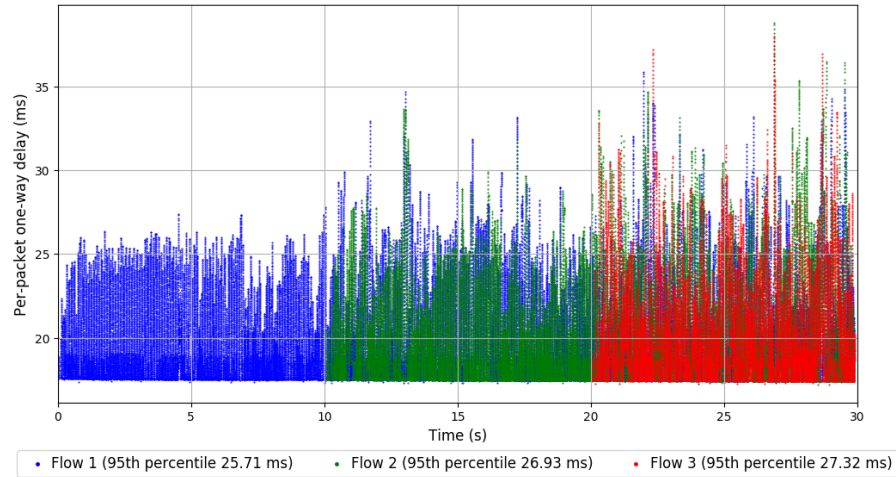
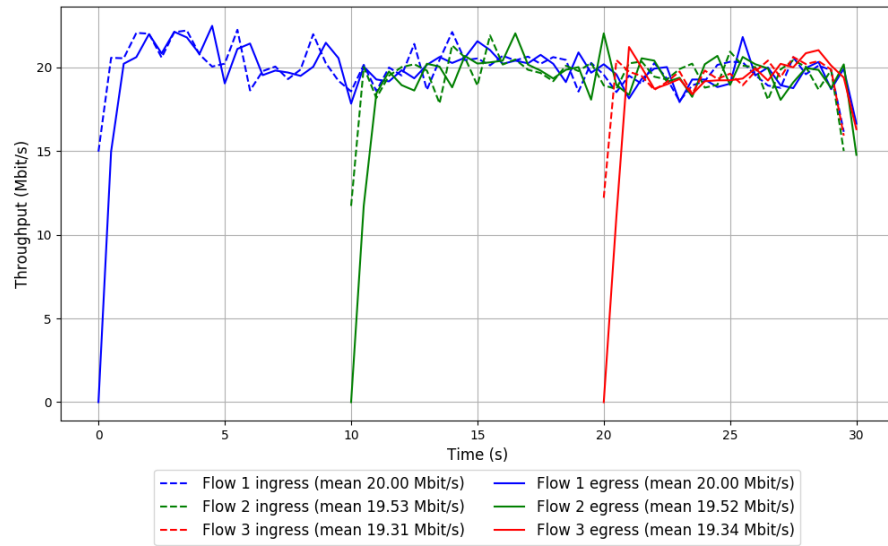


Run 7: Statistics of Sprout

Start at: 2018-07-10 22:23:46  
End at: 2018-07-10 22:24:16  
Local clock offset: 2.106 ms  
Remote clock offset: -4.421 ms

```
# Below is generated by plot.py at 2018-07-11 00:01:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.35 Mbit/s
95th percentile per-packet one-way delay: 26.364 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 20.00 Mbit/s
95th percentile per-packet one-way delay: 25.714 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 19.52 Mbit/s
95th percentile per-packet one-way delay: 26.935 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 19.34 Mbit/s
95th percentile per-packet one-way delay: 27.316 ms
Loss rate: 0.09%
```

## Run 7: Report of Sprout — Data Link

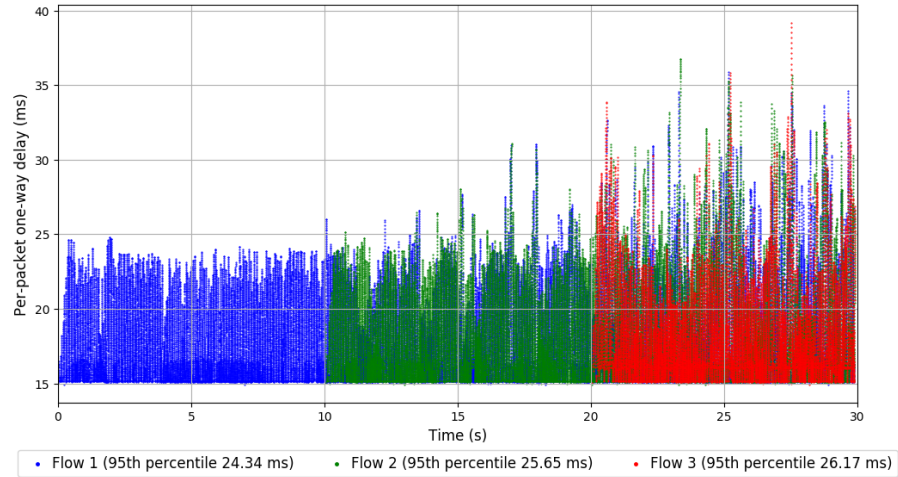
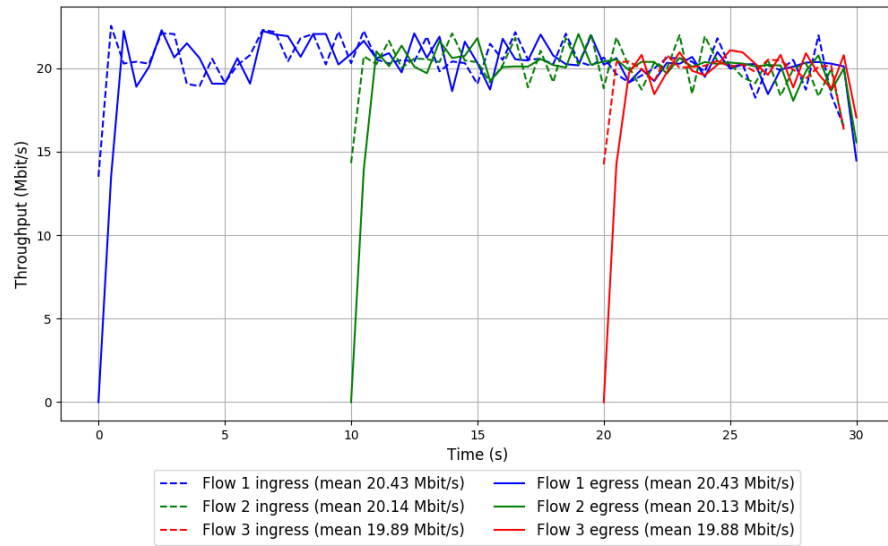


Run 8: Statistics of Sprout

Start at: 2018-07-10 22:44:16  
End at: 2018-07-10 22:44:46  
Local clock offset: -0.811 ms  
Remote clock offset: -7.778 ms

# Below is generated by plot.py at 2018-07-11 00:01:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.36 Mbit/s  
95th percentile per-packet one-way delay: 25.113 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 20.43 Mbit/s  
95th percentile per-packet one-way delay: 24.338 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 20.13 Mbit/s  
95th percentile per-packet one-way delay: 25.651 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 19.88 Mbit/s  
95th percentile per-packet one-way delay: 26.173 ms  
Loss rate: 0.09%

## Run 8: Report of Sprout — Data Link

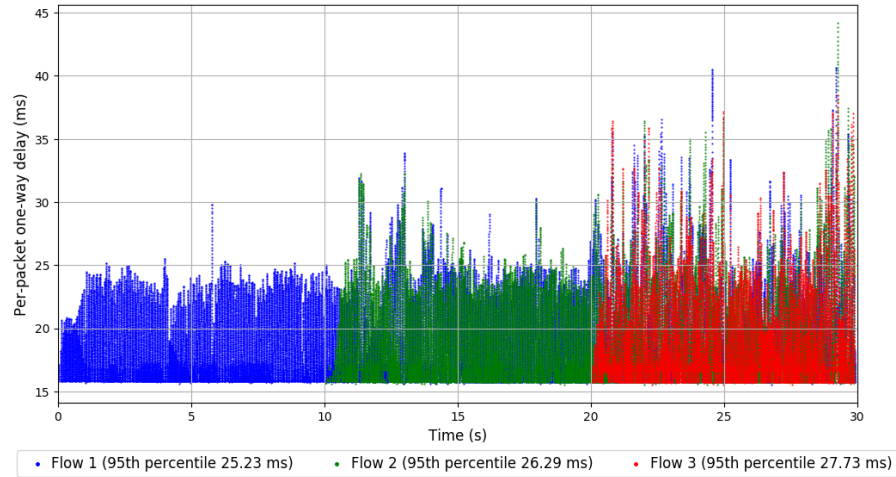
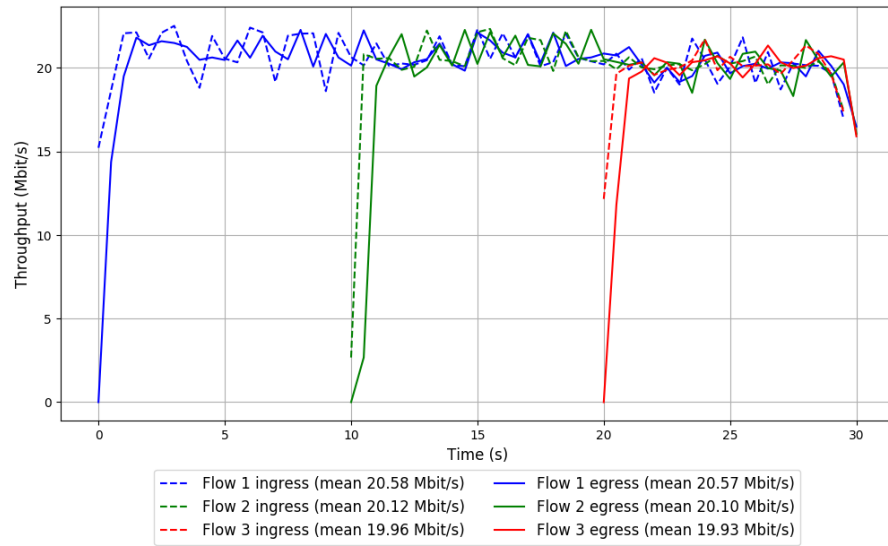


Run 9: Statistics of Sprout

Start at: 2018-07-10 23:04:29  
End at: 2018-07-10 23:04:59  
Local clock offset: 1.293 ms  
Remote clock offset: -9.489 ms

# Below is generated by plot.py at 2018-07-11 00:01:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.50 Mbit/s  
95th percentile per-packet one-way delay: 26.049 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 20.57 Mbit/s  
95th percentile per-packet one-way delay: 25.226 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 20.10 Mbit/s  
95th percentile per-packet one-way delay: 26.293 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 19.93 Mbit/s  
95th percentile per-packet one-way delay: 27.732 ms  
Loss rate: 0.45%

## Run 9: Report of Sprout — Data Link



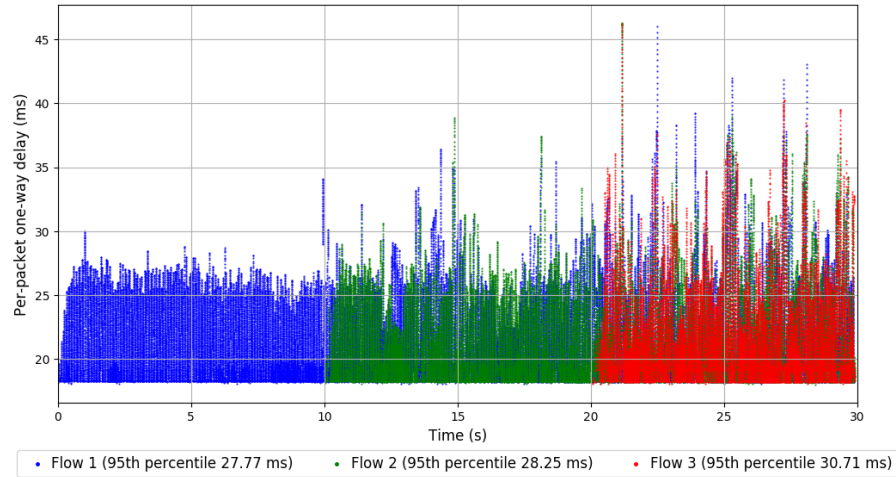
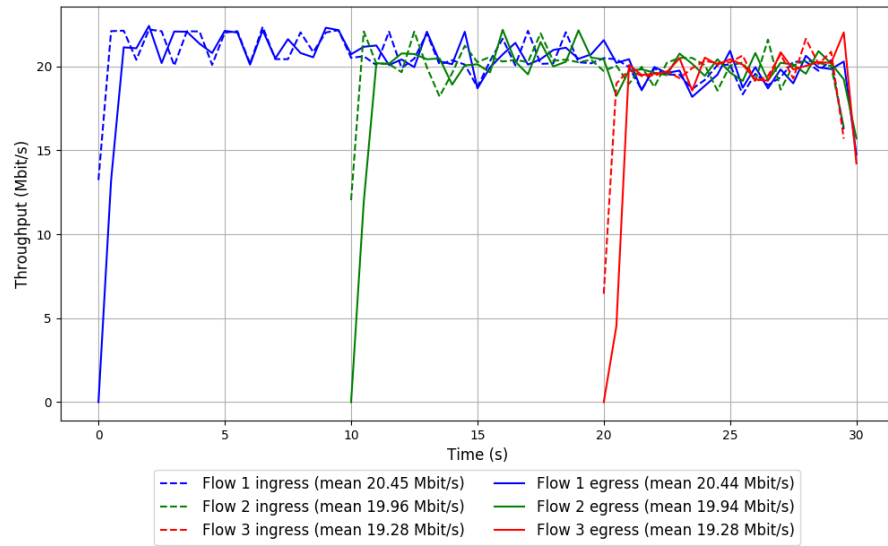
Run 10: Statistics of Sprout

Start at: 2018-07-10 23:24:50  
End at: 2018-07-10 23:25:20  
Local clock offset: 2.359 ms  
Remote clock offset: -13.404 ms

# Below is generated by plot.py at 2018-07-11 00:01:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 40.03 Mbit/s  
95th percentile per-packet one-way delay: 28.435 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 20.44 Mbit/s  
95th percentile per-packet one-way delay: 27.775 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 19.94 Mbit/s  
95th percentile per-packet one-way delay: 28.247 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 19.28 Mbit/s  
95th percentile per-packet one-way delay: 30.707 ms  
Loss rate: 0.52%



## Run 10: Report of Sprout — Data Link

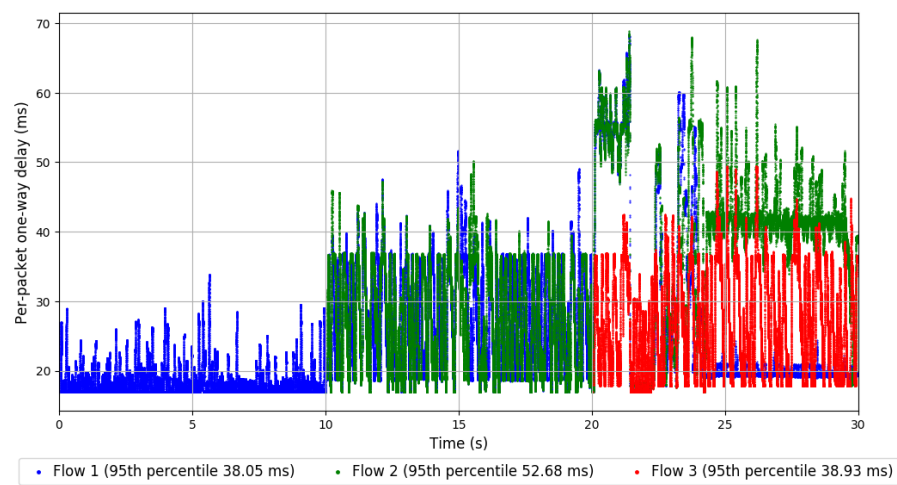
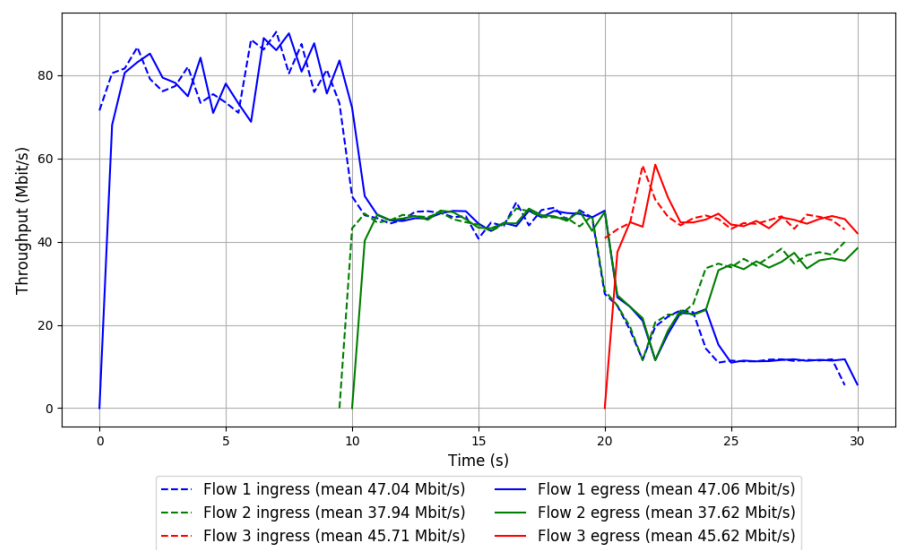


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-07-10 20:35:06
End at: 2018-07-10 20:35:36
Local clock offset: 1.381 ms
Remote clock offset: -5.26 ms

# Below is generated by plot.py at 2018-07-11 00:03:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 87.26 Mbit/s
95th percentile per-packet one-way delay: 44.494 ms
Loss rate: 0.38%
-- Flow 1:
Average throughput: 47.06 Mbit/s
95th percentile per-packet one-way delay: 38.052 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 37.62 Mbit/s
95th percentile per-packet one-way delay: 52.676 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 45.62 Mbit/s
95th percentile per-packet one-way delay: 38.926 ms
Loss rate: 0.44%
```

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



Run 2: Statistics of TaoVA-100x

Start at: 2018-07-10 20:55:50

End at: 2018-07-10 20:56:20

Local clock offset: 1.546 ms

Remote clock offset: -6.74 ms

# Below is generated by plot.py at 2018-07-11 00:03:10

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.50 Mbit/s

95th percentile per-packet one-way delay: 45.834 ms

Loss rate: 0.55%

-- Flow 1:

Average throughput: 53.12 Mbit/s

95th percentile per-packet one-way delay: 44.994 ms

Loss rate: 0.18%

-- Flow 2:

Average throughput: 36.79 Mbit/s

95th percentile per-packet one-way delay: 53.550 ms

Loss rate: 0.63%

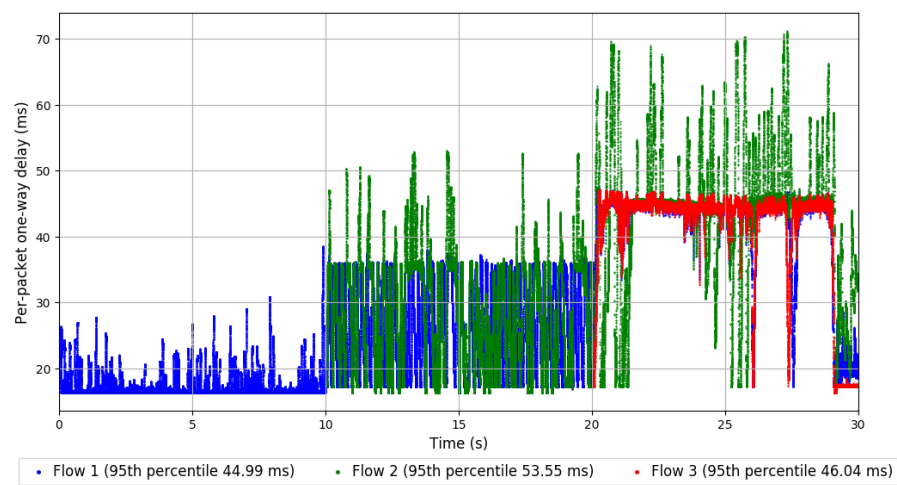
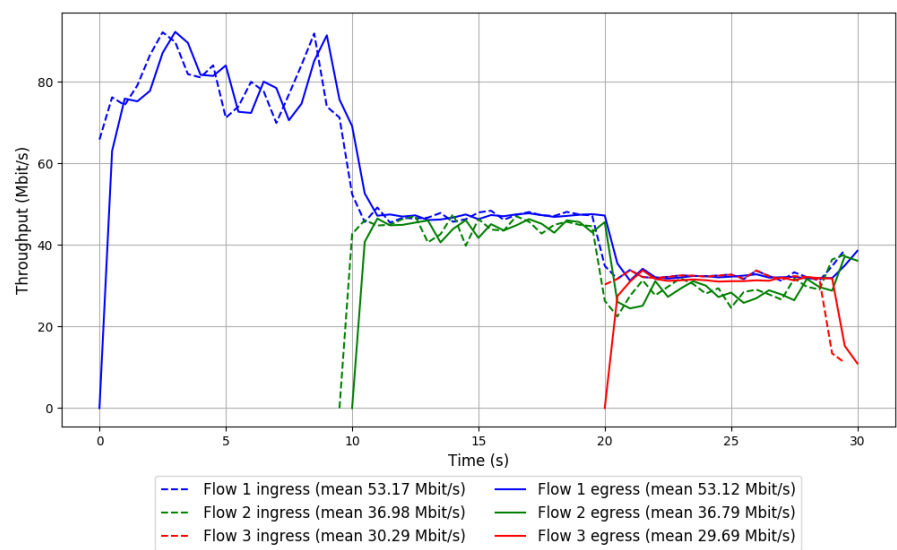
-- Flow 3:

Average throughput: 29.69 Mbit/s

95th percentile per-packet one-way delay: 46.038 ms

Loss rate: 2.27%

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

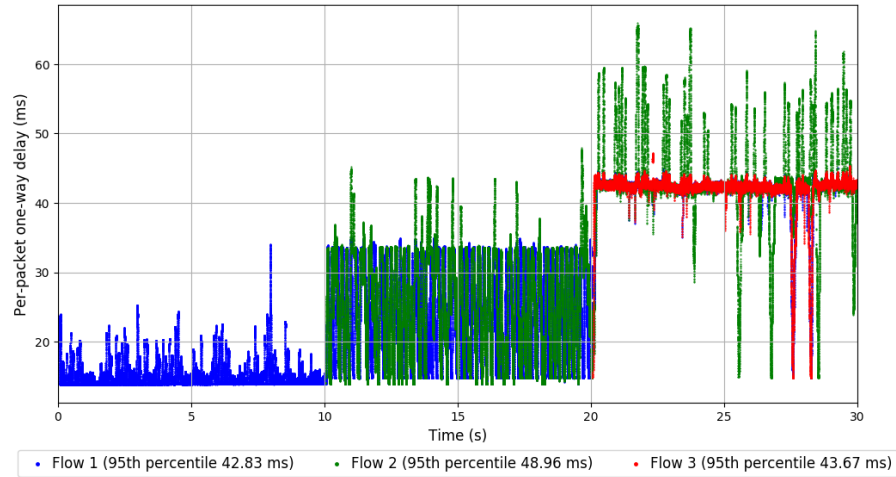
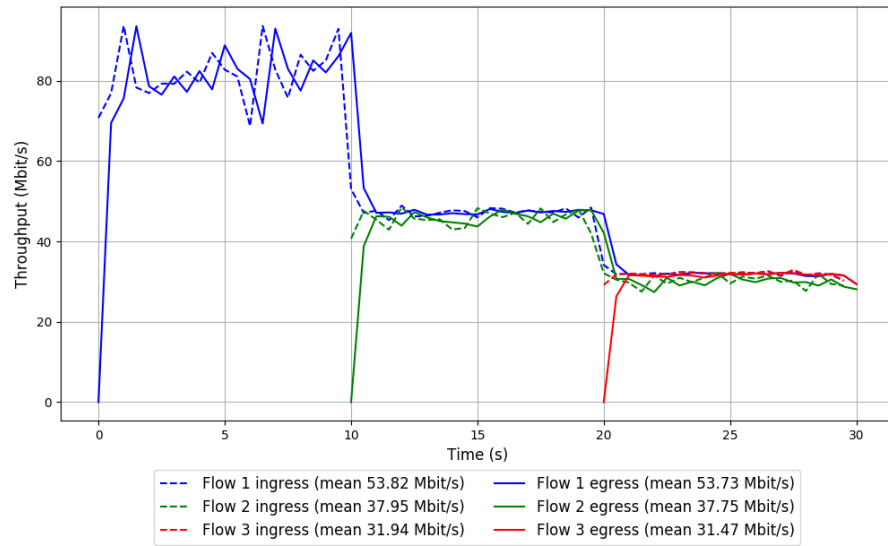


Run 3: Statistics of TaoVA-100x

Start at: 2018-07-10 21:16:23  
End at: 2018-07-10 21:16:53  
Local clock offset: -2.208 ms  
Remote clock offset: -7.843 ms

# Below is generated by plot.py at 2018-07-11 00:03:15  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.31 Mbit/s  
95th percentile per-packet one-way delay: 43.248 ms  
Loss rate: 0.54%  
-- Flow 1:  
Average throughput: 53.73 Mbit/s  
95th percentile per-packet one-way delay: 42.826 ms  
Loss rate: 0.26%  
-- Flow 2:  
Average throughput: 37.75 Mbit/s  
95th percentile per-packet one-way delay: 48.959 ms  
Loss rate: 0.66%  
-- Flow 3:  
Average throughput: 31.47 Mbit/s  
95th percentile per-packet one-way delay: 43.674 ms  
Loss rate: 1.70%

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



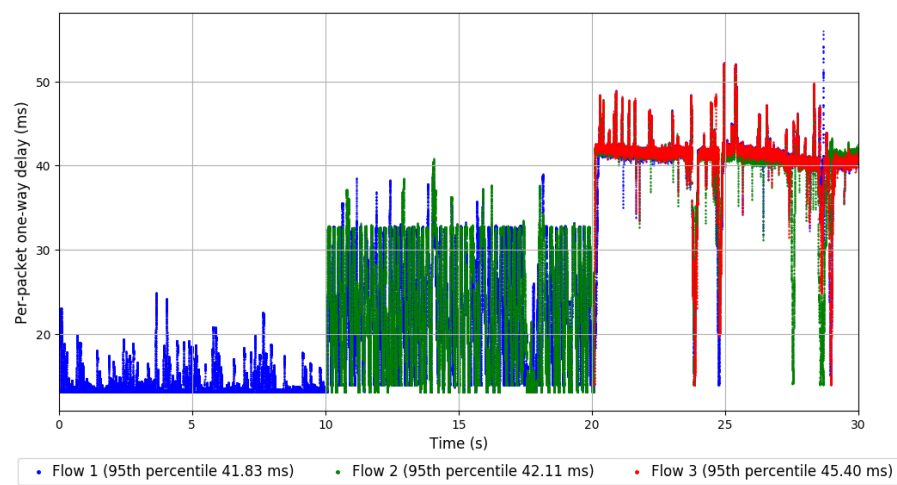
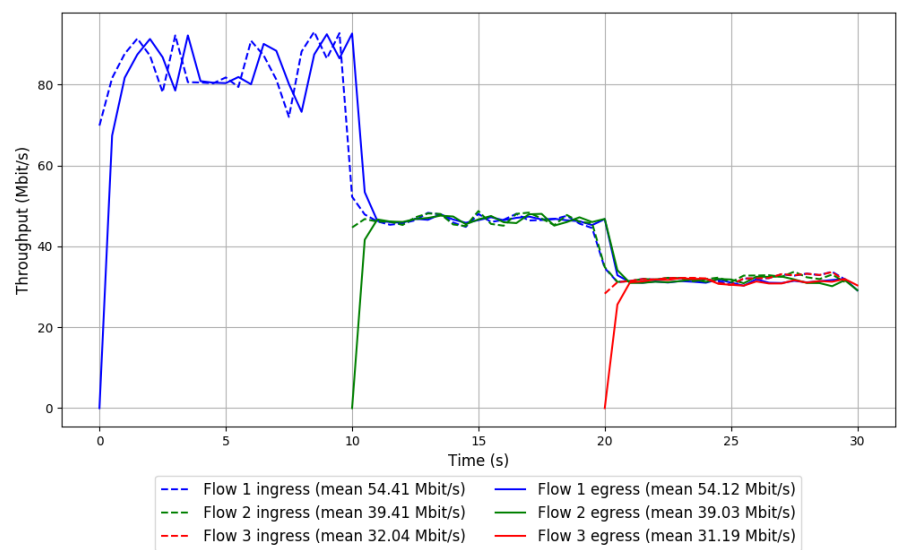
Run 4: Statistics of TaoVA-100x

Start at: 2018-07-10 21:36:51  
End at: 2018-07-10 21:37:21  
Local clock offset: -1.949 ms  
Remote clock offset: -5.455 ms

# Below is generated by plot.py at 2018-07-11 00:03:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.46 Mbit/s  
95th percentile per-packet one-way delay: 42.169 ms  
Loss rate: 1.06%  
-- Flow 1:  
Average throughput: 54.12 Mbit/s  
95th percentile per-packet one-way delay: 41.832 ms  
Loss rate: 0.65%  
-- Flow 2:  
Average throughput: 39.03 Mbit/s  
95th percentile per-packet one-way delay: 42.106 ms  
Loss rate: 1.15%  
-- Flow 3:  
Average throughput: 31.19 Mbit/s  
95th percentile per-packet one-way delay: 45.396 ms  
Loss rate: 2.90%



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

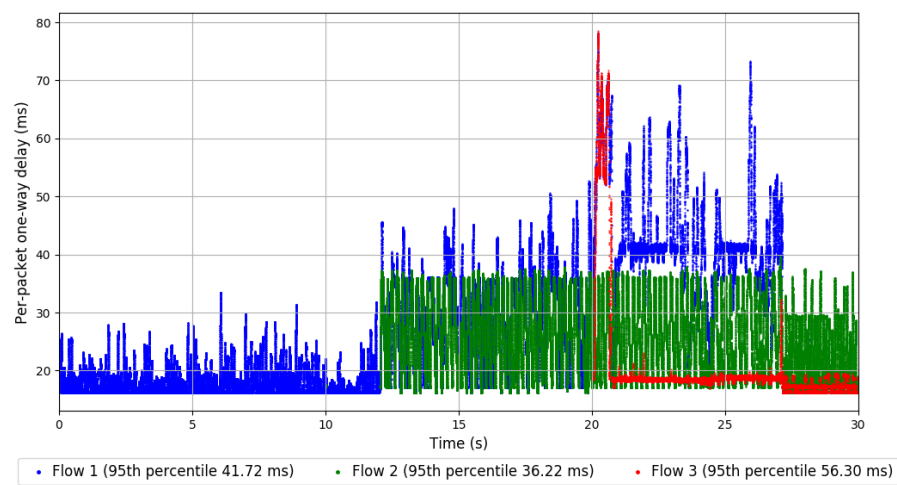
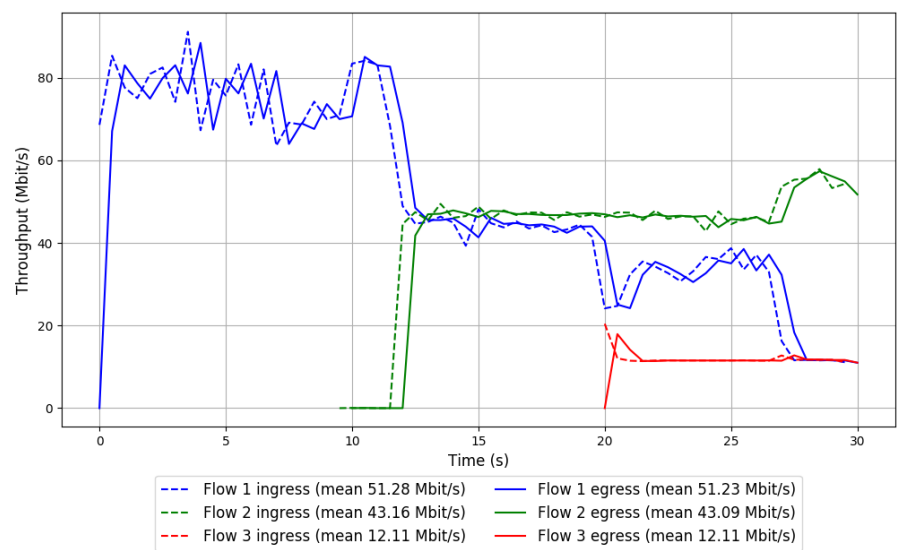


Run 5: Statistics of TaoVA-100x

Start at: 2018-07-10 21:57:21  
End at: 2018-07-10 21:57:51  
Local clock offset: 0.844 ms  
Remote clock offset: -4.609 ms

# Below is generated by plot.py at 2018-07-11 00:03:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.96 Mbit/s  
95th percentile per-packet one-way delay: 41.245 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 51.23 Mbit/s  
95th percentile per-packet one-way delay: 41.721 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 43.09 Mbit/s  
95th percentile per-packet one-way delay: 36.224 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 12.11 Mbit/s  
95th percentile per-packet one-way delay: 56.302 ms  
Loss rate: 0.26%

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

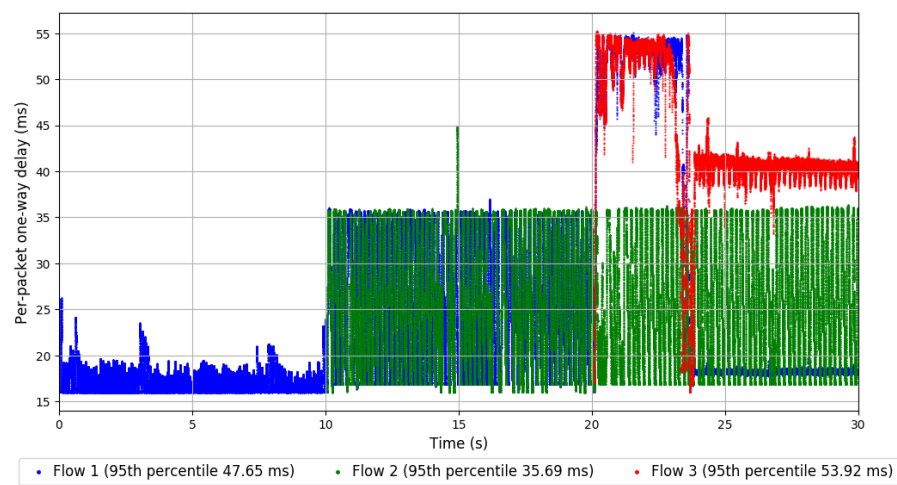
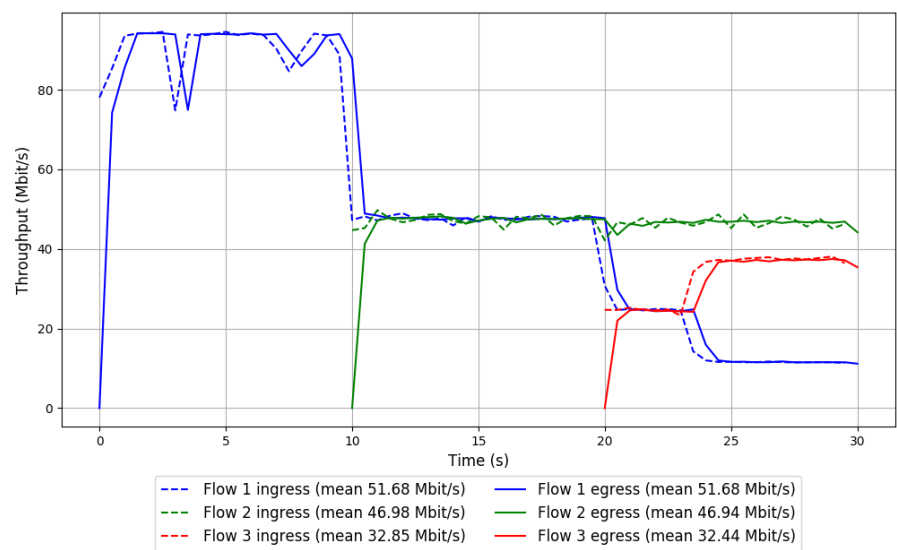


Run 6: Statistics of TaoVA-100x

Start at: 2018-07-10 22:17:46  
End at: 2018-07-10 22:18:16  
Local clock offset: 1.157 ms  
Remote clock offset: -3.232 ms

# Below is generated by plot.py at 2018-07-11 00:03:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.70 Mbit/s  
95th percentile per-packet one-way delay: 49.379 ms  
Loss rate: 0.30%  
-- Flow 1:  
Average throughput: 51.68 Mbit/s  
95th percentile per-packet one-way delay: 47.653 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 46.94 Mbit/s  
95th percentile per-packet one-way delay: 35.691 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 32.44 Mbit/s  
95th percentile per-packet one-way delay: 53.919 ms  
Loss rate: 1.58%

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

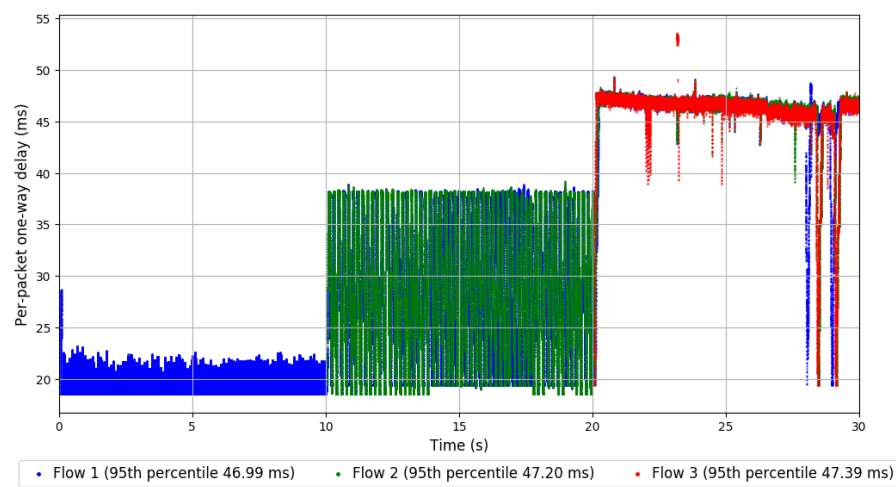
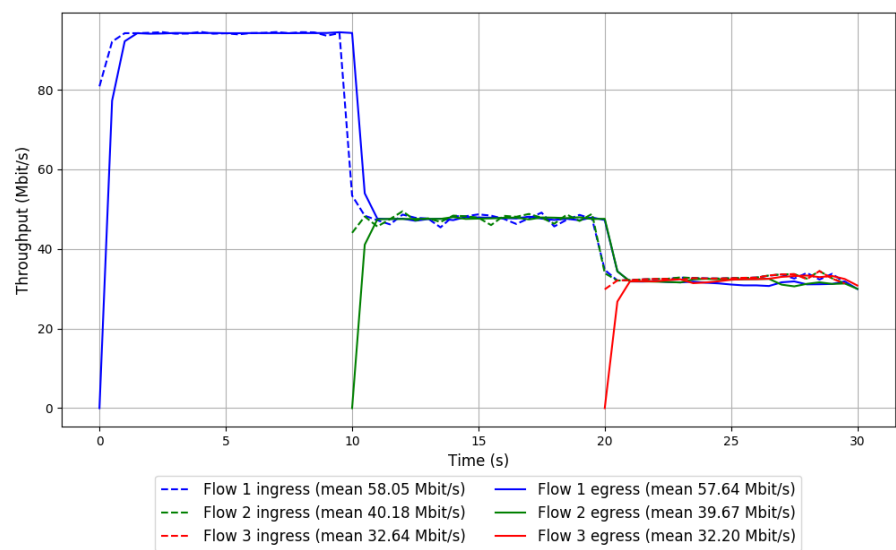


Run 7: Statistics of TaoVA-100x

Start at: 2018-07-10 22:38:03  
End at: 2018-07-10 22:38:33  
Local clock offset: 2.645 ms  
Remote clock offset: -7.319 ms

# Below is generated by plot.py at 2018-07-11 00:03:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.75 Mbit/s  
95th percentile per-packet one-way delay: 47.150 ms  
Loss rate: 1.09%  
-- Flow 1:  
Average throughput: 57.64 Mbit/s  
95th percentile per-packet one-way delay: 46.993 ms  
Loss rate: 0.84%  
-- Flow 2:  
Average throughput: 39.67 Mbit/s  
95th percentile per-packet one-way delay: 47.205 ms  
Loss rate: 1.41%  
-- Flow 3:  
Average throughput: 32.20 Mbit/s  
95th percentile per-packet one-way delay: 47.386 ms  
Loss rate: 1.64%

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



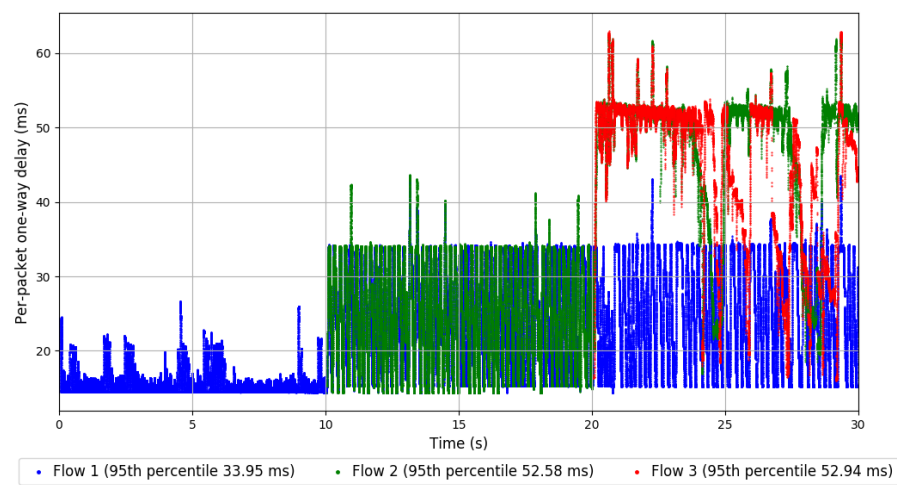
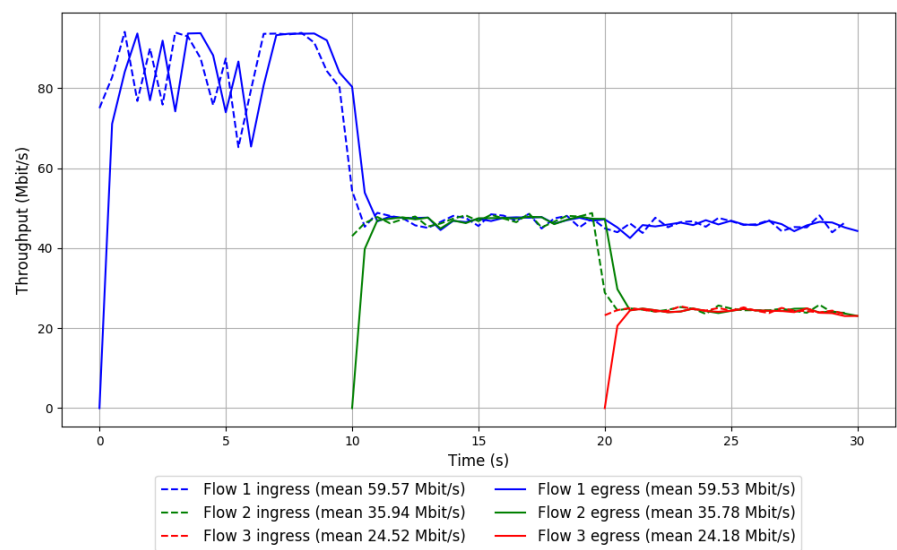
Run 8: Statistics of TaoVA-100x

Start at: 2018-07-10 22:58:28  
End at: 2018-07-10 22:58:58  
Local clock offset: -0.699 ms  
Remote clock offset: -8.595 ms

# Below is generated by plot.py at 2018-07-11 00:03:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.38 Mbit/s  
95th percentile per-packet one-way delay: 52.037 ms  
Loss rate: 0.39%  
-- Flow 1:  
Average throughput: 59.53 Mbit/s  
95th percentile per-packet one-way delay: 33.947 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 35.78 Mbit/s  
95th percentile per-packet one-way delay: 52.581 ms  
Loss rate: 0.59%  
-- Flow 3:  
Average throughput: 24.18 Mbit/s  
95th percentile per-packet one-way delay: 52.944 ms  
Loss rate: 1.66%



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

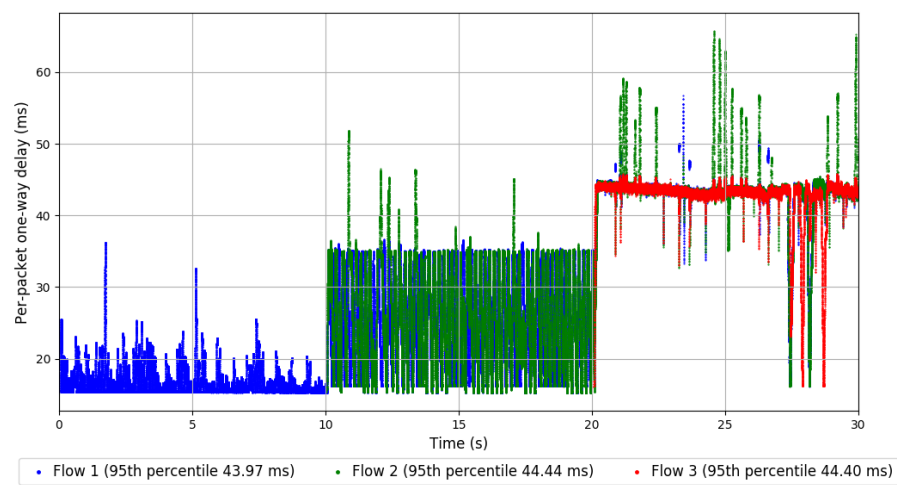
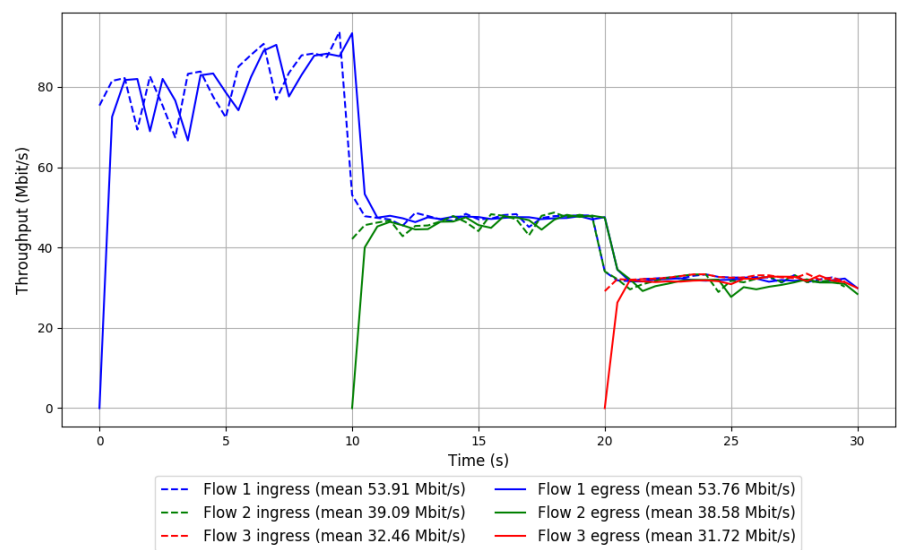


Run 9: Statistics of TaoVA-100x

Start at: 2018-07-10 23:18:37  
End at: 2018-07-10 23:19:07  
Local clock offset: -0.62 ms  
Remote clock offset: -12.918 ms

# Below is generated by plot.py at 2018-07-11 00:05:13  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.99 Mbit/s  
95th percentile per-packet one-way delay: 44.205 ms  
Loss rate: 0.96%  
-- Flow 1:  
Average throughput: 53.76 Mbit/s  
95th percentile per-packet one-way delay: 43.970 ms  
Loss rate: 0.40%  
-- Flow 2:  
Average throughput: 38.58 Mbit/s  
95th percentile per-packet one-way delay: 44.437 ms  
Loss rate: 1.42%  
-- Flow 3:  
Average throughput: 31.72 Mbit/s  
95th percentile per-packet one-way delay: 44.397 ms  
Loss rate: 2.66%

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

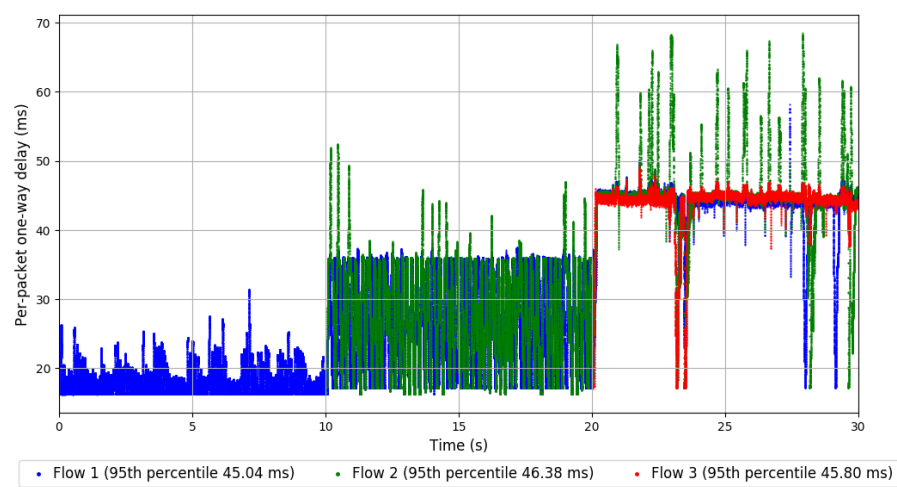
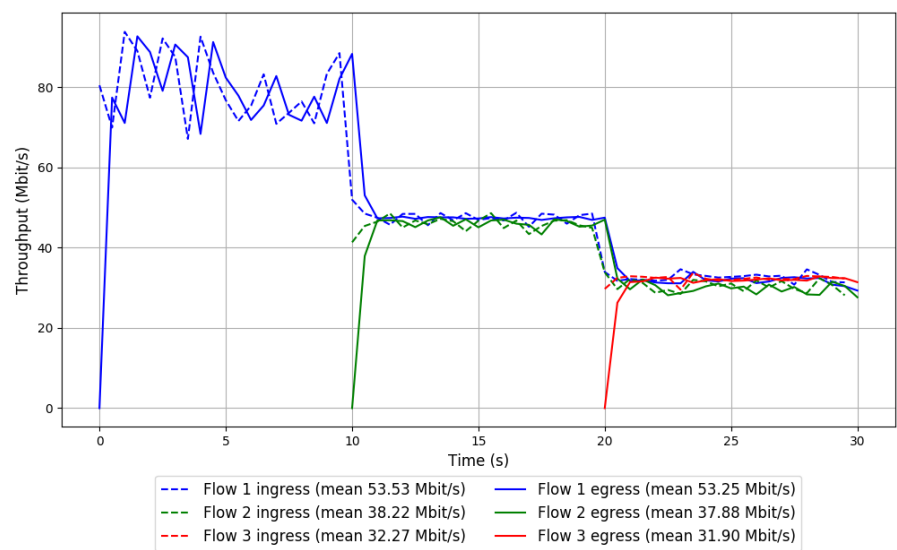


Run 10: Statistics of TaoVA-100x

Start at: 2018-07-10 23:39:10  
End at: 2018-07-10 23:39:40  
Local clock offset: 1.402 ms  
Remote clock offset: -9.105 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.06 Mbit/s  
95th percentile per-packet one-way delay: 45.353 ms  
Loss rate: 0.85%  
-- Flow 1:  
Average throughput: 53.25 Mbit/s  
95th percentile per-packet one-way delay: 45.040 ms  
Loss rate: 0.63%  
-- Flow 2:  
Average throughput: 37.88 Mbit/s  
95th percentile per-packet one-way delay: 46.382 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 31.90 Mbit/s  
95th percentile per-packet one-way delay: 45.804 ms  
Loss rate: 1.53%

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

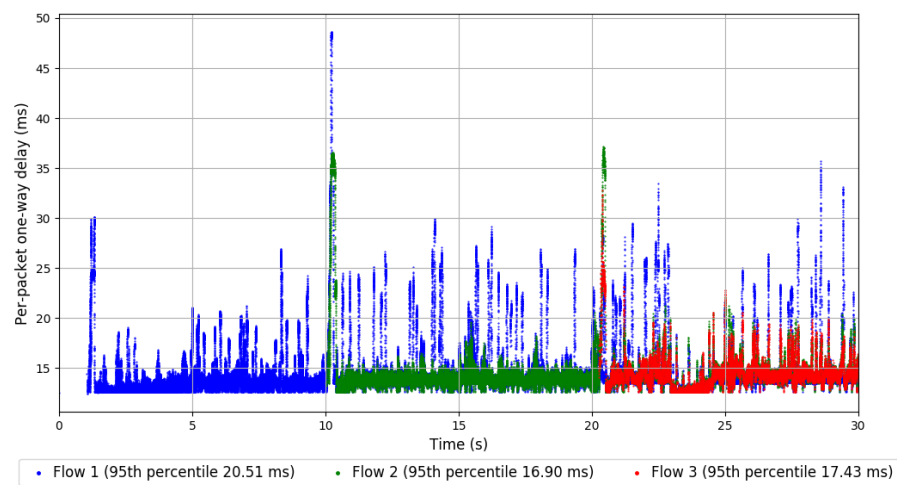
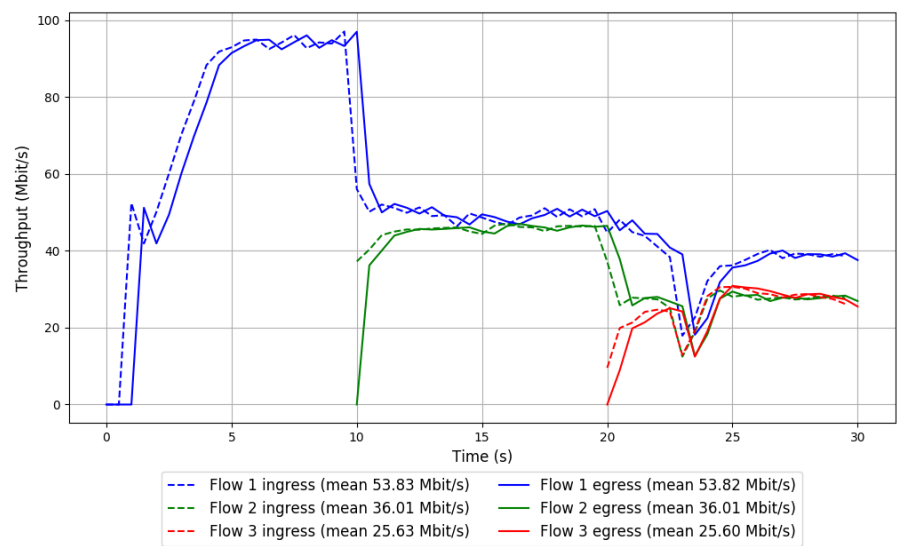


Run 1: Statistics of TCP Vegas

Start at: 2018-07-10 20:24:27  
End at: 2018-07-10 20:24:57  
Local clock offset: -2.318 ms  
Remote clock offset: -5.271 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 86.12 Mbit/s  
95th percentile per-packet one-way delay: 19.114 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 53.82 Mbit/s  
95th percentile per-packet one-way delay: 20.514 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 36.01 Mbit/s  
95th percentile per-packet one-way delay: 16.898 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 25.60 Mbit/s  
95th percentile per-packet one-way delay: 17.429 ms  
Loss rate: 0.37%

Run 1: Report of TCP Vegas — Data Link



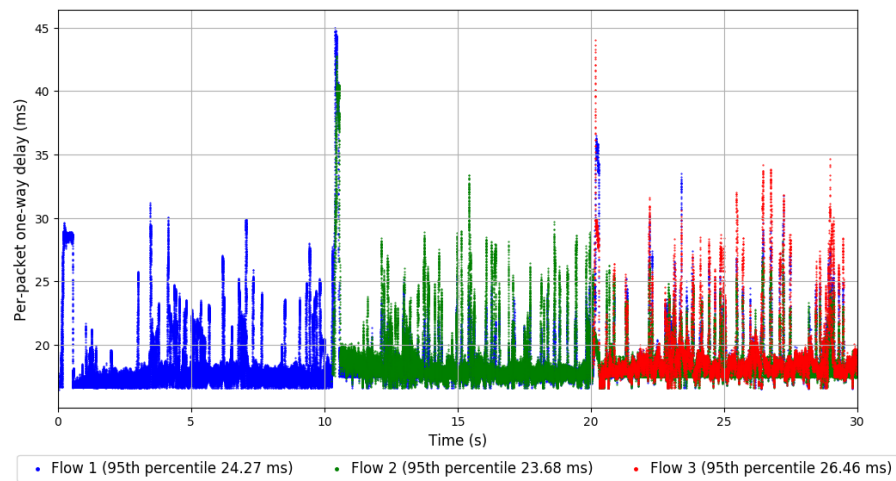
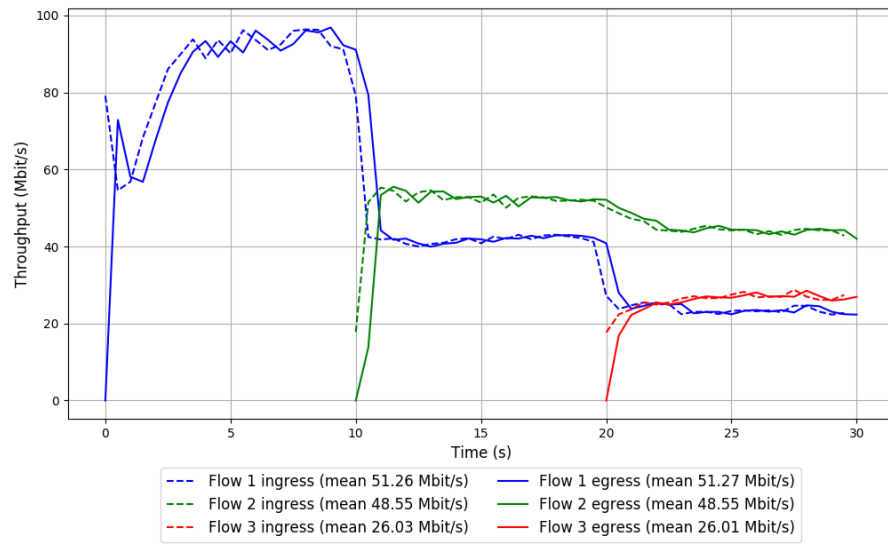
Run 2: Statistics of TCP Vegas

Start at: 2018-07-10 20:44:57  
End at: 2018-07-10 20:45:27  
Local clock offset: 2.135 ms  
Remote clock offset: -5.366 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.85 Mbit/s  
95th percentile per-packet one-way delay: 24.283 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 51.27 Mbit/s  
95th percentile per-packet one-way delay: 24.265 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 48.55 Mbit/s  
95th percentile per-packet one-way delay: 23.685 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 26.01 Mbit/s  
95th percentile per-packet one-way delay: 26.460 ms  
Loss rate: 0.30%



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

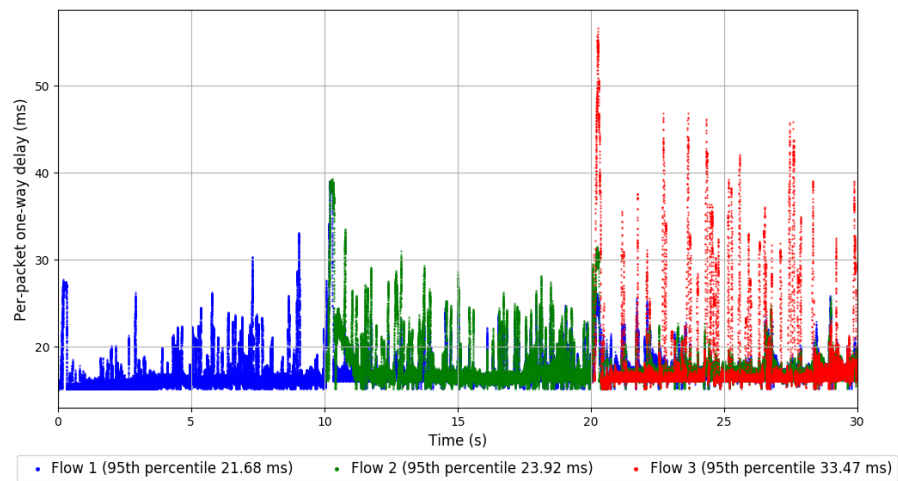
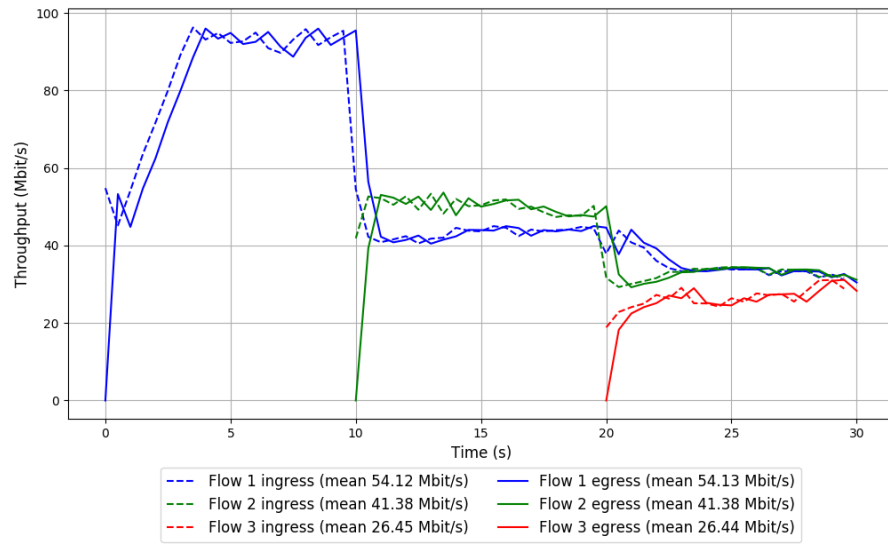


Run 3: Statistics of TCP Vegas

Start at: 2018-07-10 21:05:39  
End at: 2018-07-10 21:06:09  
Local clock offset: -0.655 ms  
Remote clock offset: -7.998 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.45 Mbit/s  
95th percentile per-packet one-way delay: 23.232 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 54.13 Mbit/s  
95th percentile per-packet one-way delay: 21.684 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 41.38 Mbit/s  
95th percentile per-packet one-way delay: 23.919 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 26.44 Mbit/s  
95th percentile per-packet one-way delay: 33.471 ms  
Loss rate: 0.32%

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

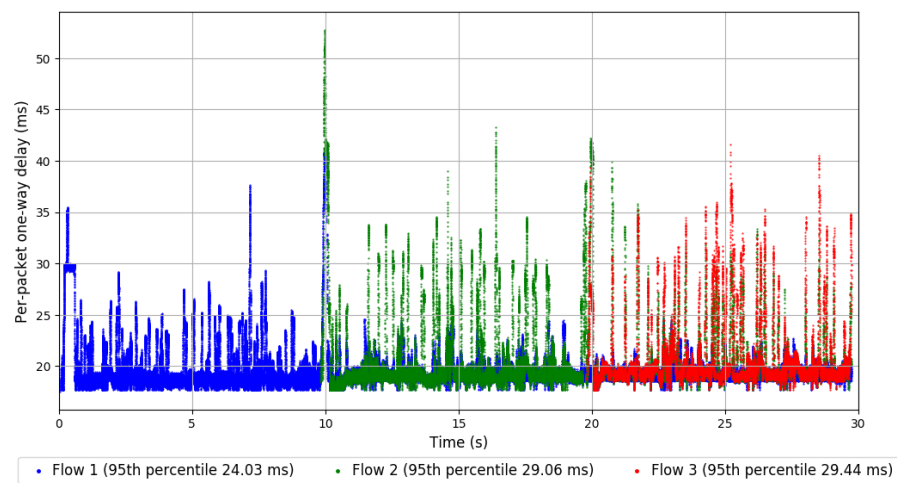
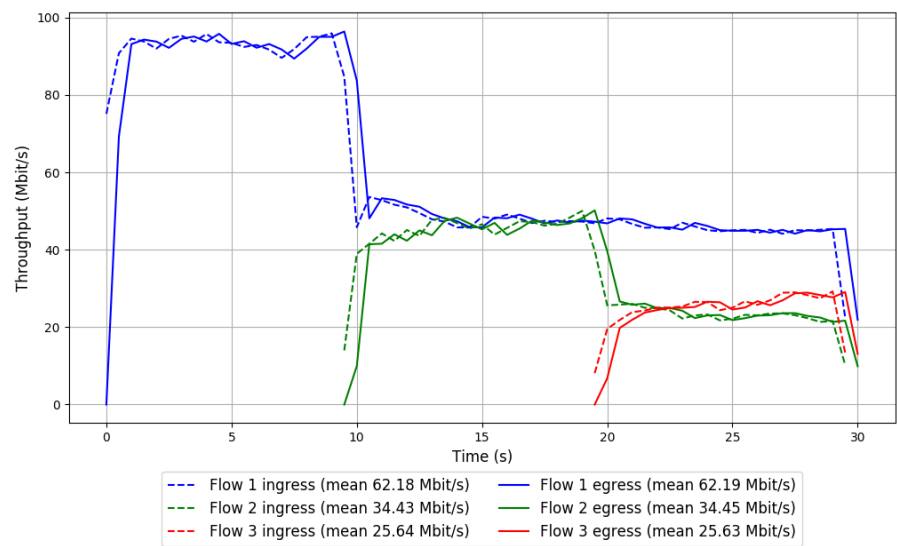


Run 4: Statistics of TCP Vegas

Start at: 2018-07-10 21:26:14  
End at: 2018-07-10 21:26:44  
Local clock offset: 2.497 ms  
Remote clock offset: -5.995 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.89 Mbit/s  
95th percentile per-packet one-way delay: 26.162 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 62.19 Mbit/s  
95th percentile per-packet one-way delay: 24.032 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 34.45 Mbit/s  
95th percentile per-packet one-way delay: 29.060 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 25.63 Mbit/s  
95th percentile per-packet one-way delay: 29.441 ms  
Loss rate: 0.31%

Run 4: Report of TCP Vegas — Data Link

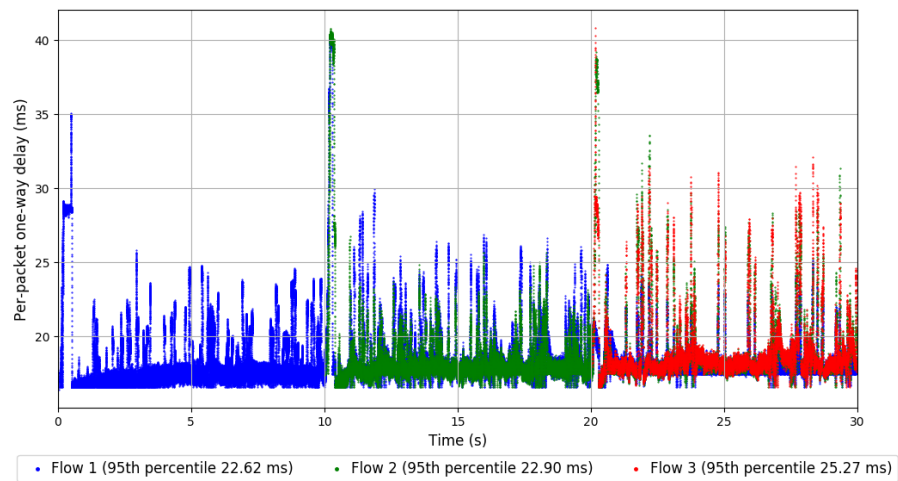
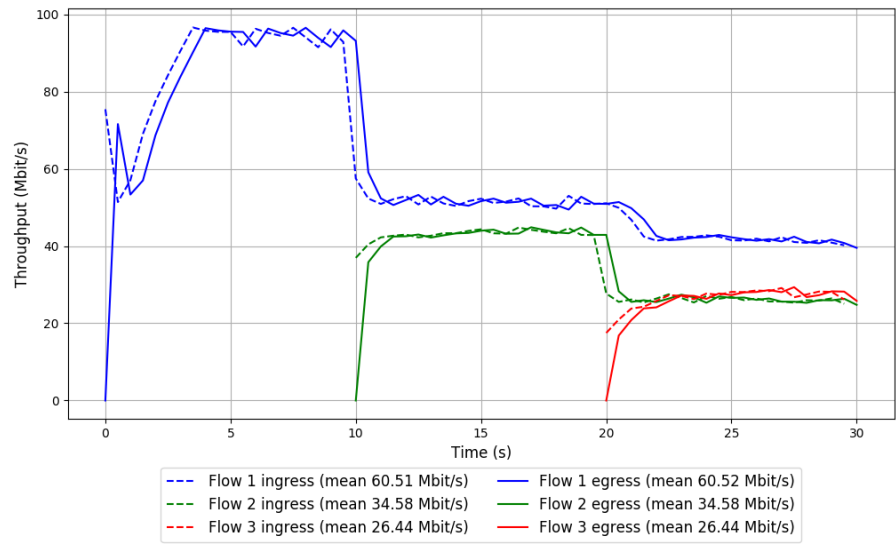


Run 5: Statistics of TCP Vegas

Start at: 2018-07-10 21:46:31  
End at: 2018-07-10 21:47:01  
Local clock offset: 2.143 ms  
Remote clock offset: -4.528 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.32 Mbit/s  
95th percentile per-packet one-way delay: 22.896 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 60.52 Mbit/s  
95th percentile per-packet one-way delay: 22.619 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 34.58 Mbit/s  
95th percentile per-packet one-way delay: 22.900 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 26.44 Mbit/s  
95th percentile per-packet one-way delay: 25.268 ms  
Loss rate: 0.27%

# Run 5: Report of TCP Vegas — Data Link



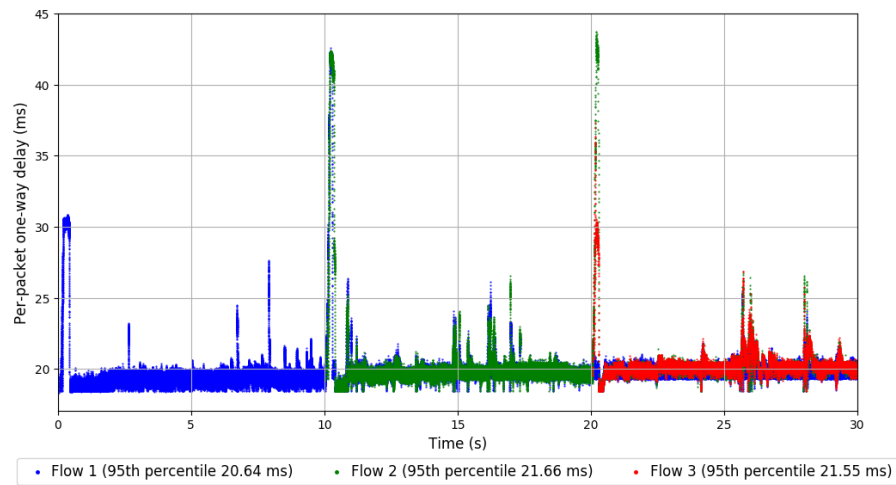
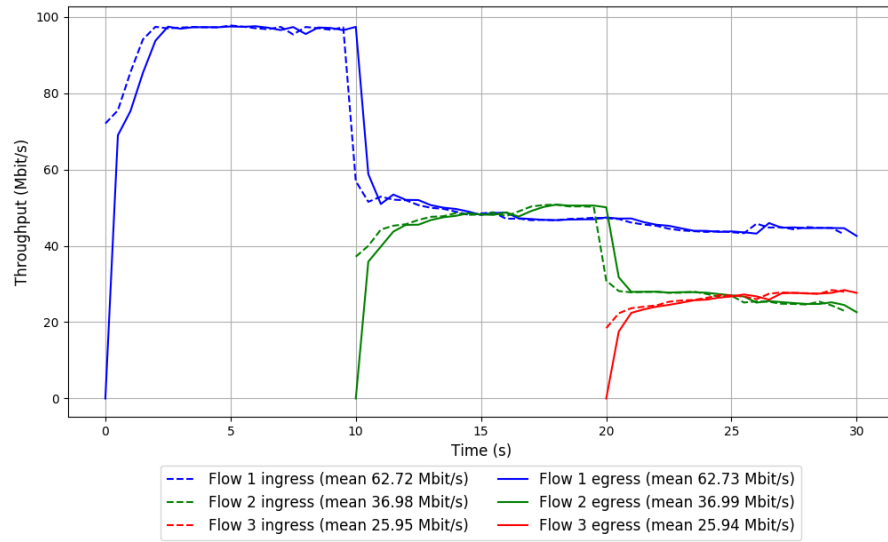
Run 6: Statistics of TCP Vegas

Start at: 2018-07-10 22:07:00  
End at: 2018-07-10 22:07:30  
Local clock offset: 2.933 ms  
Remote clock offset: -4.225 ms

# Below is generated by plot.py at 2018-07-11 00:05:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.97 Mbit/s  
95th percentile per-packet one-way delay: 21.075 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 62.73 Mbit/s  
95th percentile per-packet one-way delay: 20.643 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 36.99 Mbit/s  
95th percentile per-packet one-way delay: 21.661 ms  
Loss rate: 0.09%  
-- Flow 3:  
Average throughput: 25.94 Mbit/s  
95th percentile per-packet one-way delay: 21.545 ms  
Loss rate: 0.29%



## Run 6: Report of TCP Vegas — Data Link

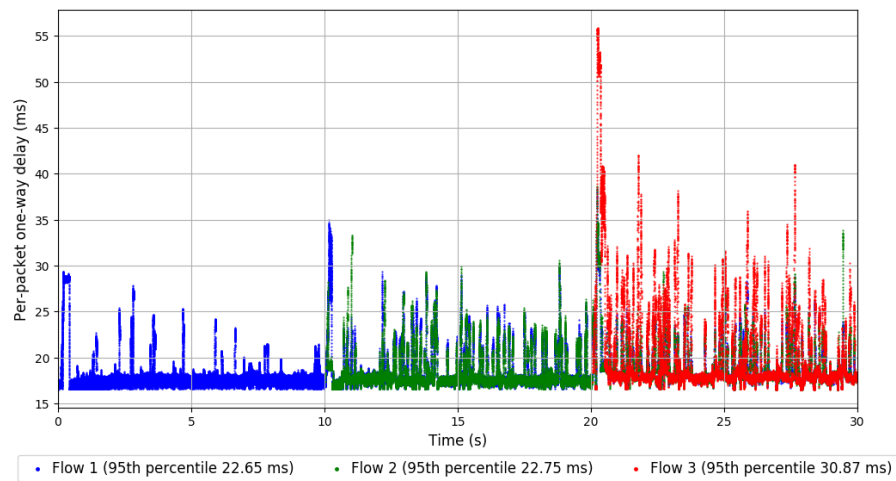
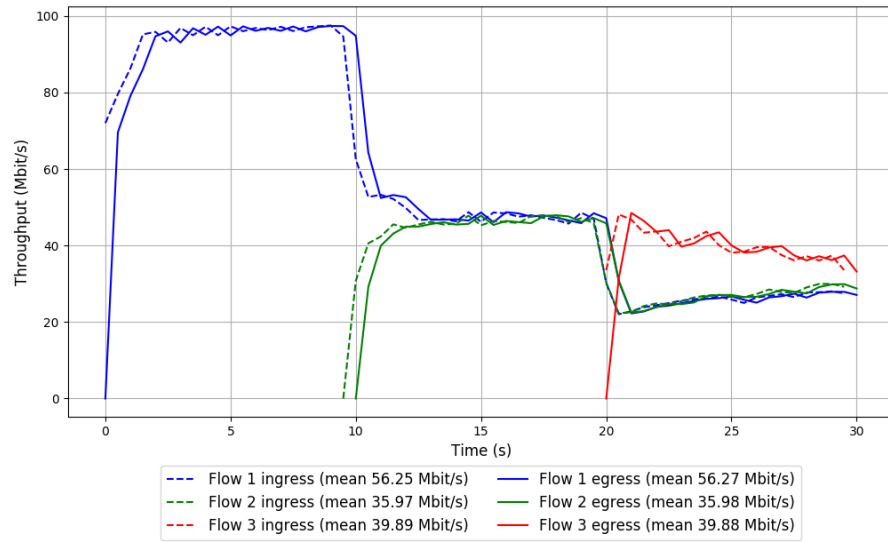


Run 7: Statistics of TCP Vegas

Start at: 2018-07-10 22:27:16  
End at: 2018-07-10 22:27:46  
Local clock offset: 1.932 ms  
Remote clock offset: -4.601 ms

# Below is generated by plot.py at 2018-07-11 00:05:33  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.48 Mbit/s  
95th percentile per-packet one-way delay: 23.936 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 56.27 Mbit/s  
95th percentile per-packet one-way delay: 22.654 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 35.98 Mbit/s  
95th percentile per-packet one-way delay: 22.748 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 39.88 Mbit/s  
95th percentile per-packet one-way delay: 30.872 ms  
Loss rate: 0.24%

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

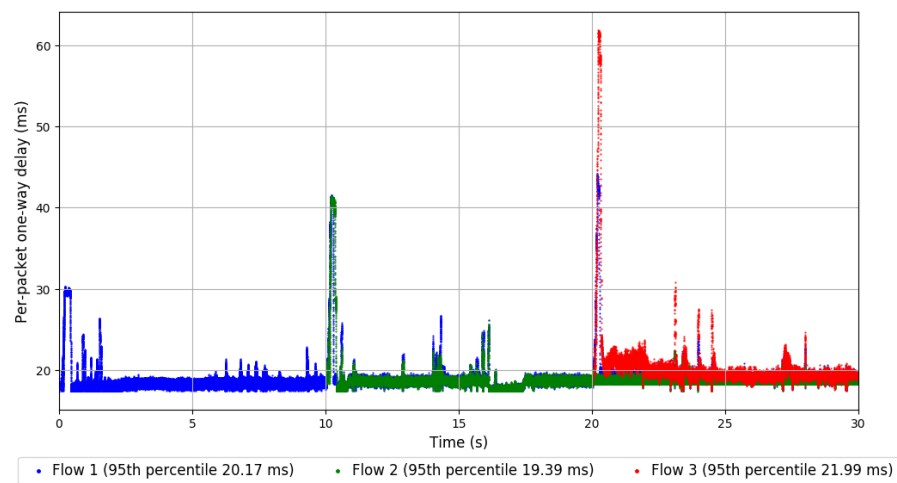
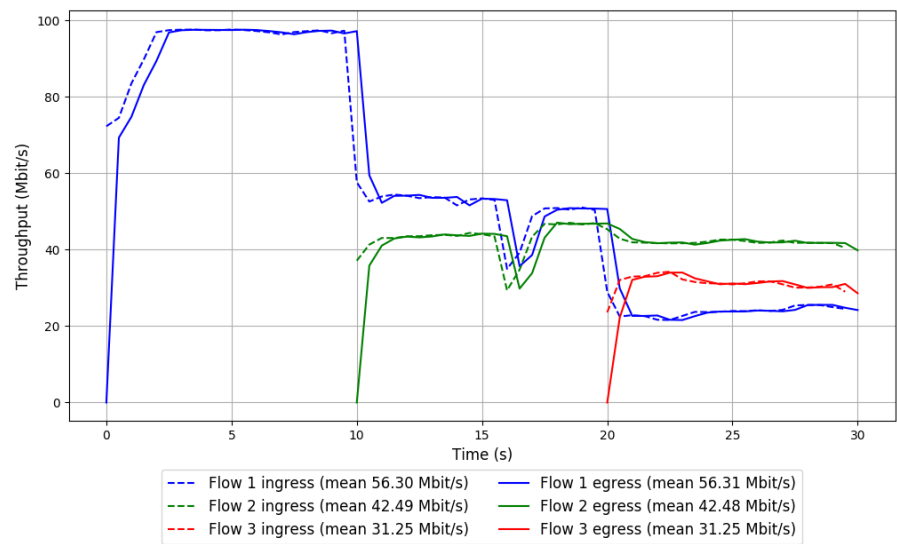


Run 8: Statistics of TCP Vegas

Start at: 2018-07-10 22:47:46  
End at: 2018-07-10 22:48:16  
Local clock offset: 1.731 ms  
Remote clock offset: -7.713 ms

# Below is generated by plot.py at 2018-07-11 00:05:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.97 Mbit/s  
95th percentile per-packet one-way delay: 20.704 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 56.31 Mbit/s  
95th percentile per-packet one-way delay: 20.171 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 42.48 Mbit/s  
95th percentile per-packet one-way delay: 19.394 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 31.25 Mbit/s  
95th percentile per-packet one-way delay: 21.991 ms  
Loss rate: 0.25%

Run 8: Report of TCP Vegas — Data Link

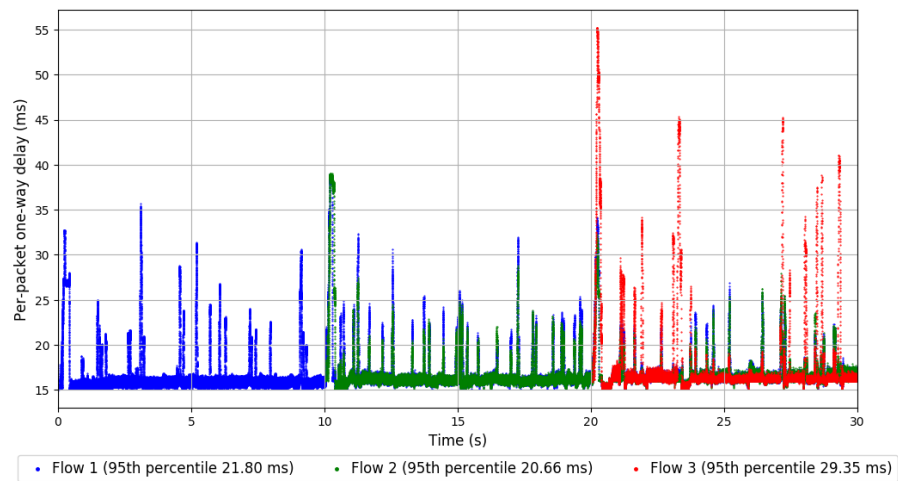
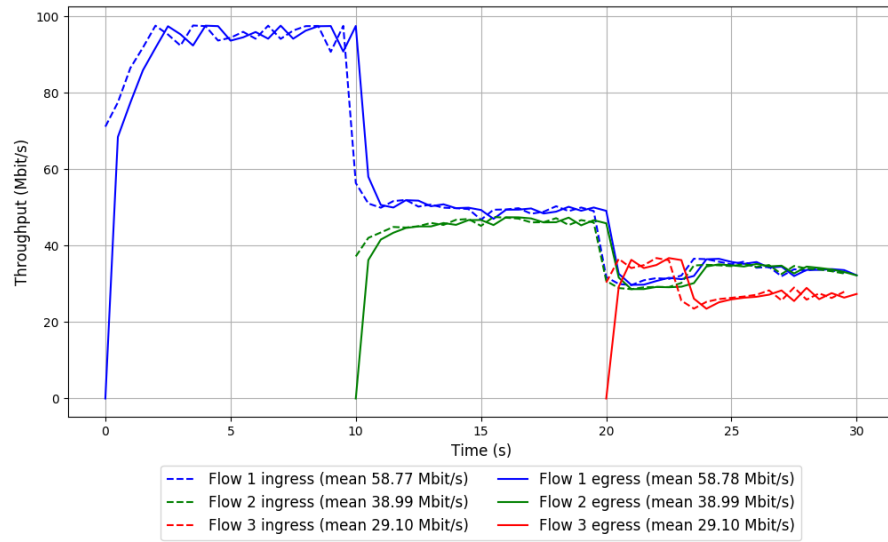


Run 9: Statistics of TCP Vegas

Start at: 2018-07-10 23:07:58  
End at: 2018-07-10 23:08:28  
Local clock offset: -0.568 ms  
Remote clock offset: -11.333 ms

# Below is generated by plot.py at 2018-07-11 00:05:45  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.40 Mbit/s  
95th percentile per-packet one-way delay: 21.882 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 58.78 Mbit/s  
95th percentile per-packet one-way delay: 21.799 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 38.99 Mbit/s  
95th percentile per-packet one-way delay: 20.664 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 29.10 Mbit/s  
95th percentile per-packet one-way delay: 29.351 ms  
Loss rate: 0.26%

# Run 9: Report of TCP Vegas — Data Link



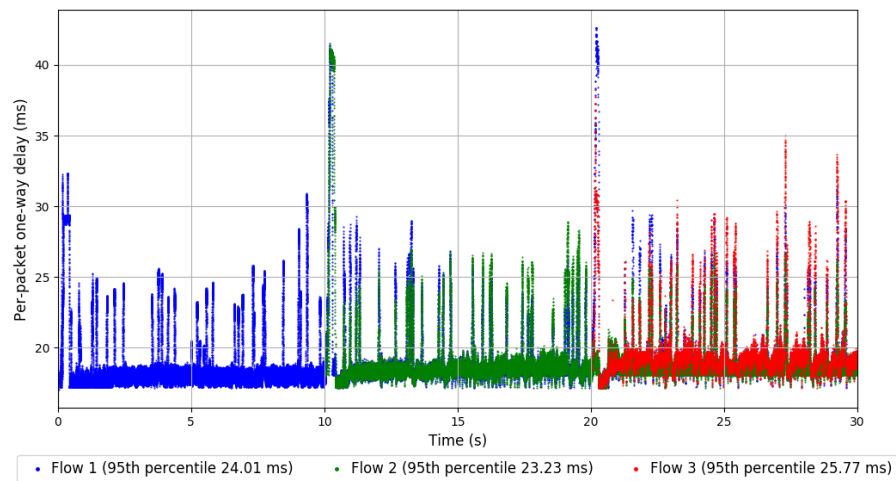
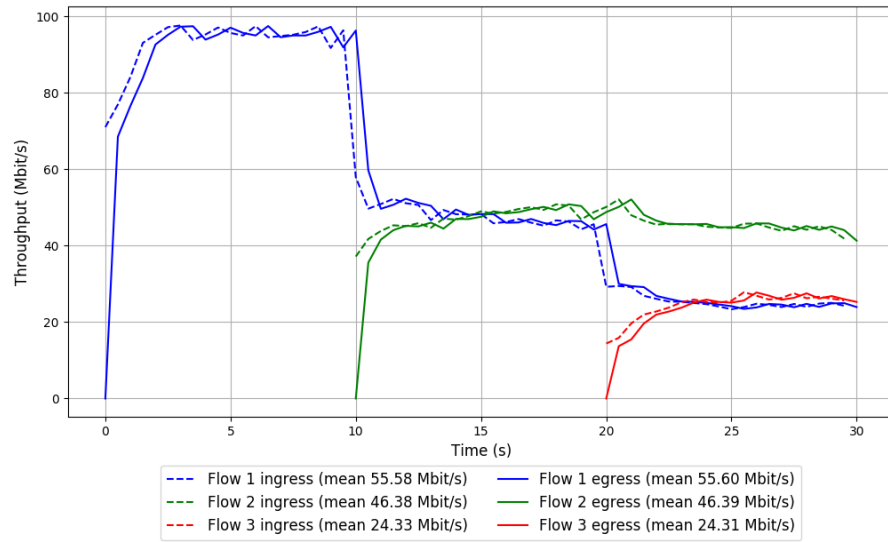
Run 10: Statistics of TCP Vegas

Start at: 2018-07-10 23:28:24  
End at: 2018-07-10 23:28:54  
Local clock offset: 1.712 ms  
Remote clock offset: -13.298 ms

# Below is generated by plot.py at 2018-07-11 00:06:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.55 Mbit/s  
95th percentile per-packet one-way delay: 23.905 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 55.60 Mbit/s  
95th percentile per-packet one-way delay: 24.006 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 46.39 Mbit/s  
95th percentile per-packet one-way delay: 23.233 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 24.31 Mbit/s  
95th percentile per-packet one-way delay: 25.769 ms  
Loss rate: 0.35%



# Run 10: Report of TCP Vegas — Data Link

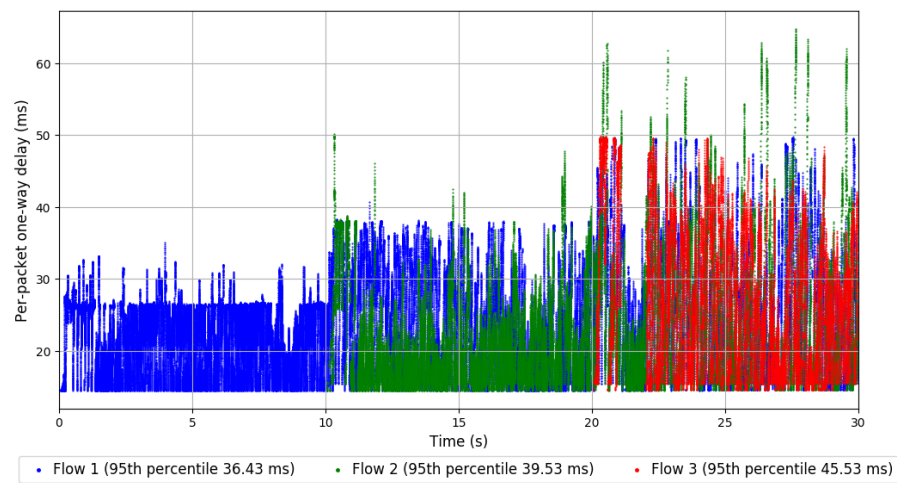
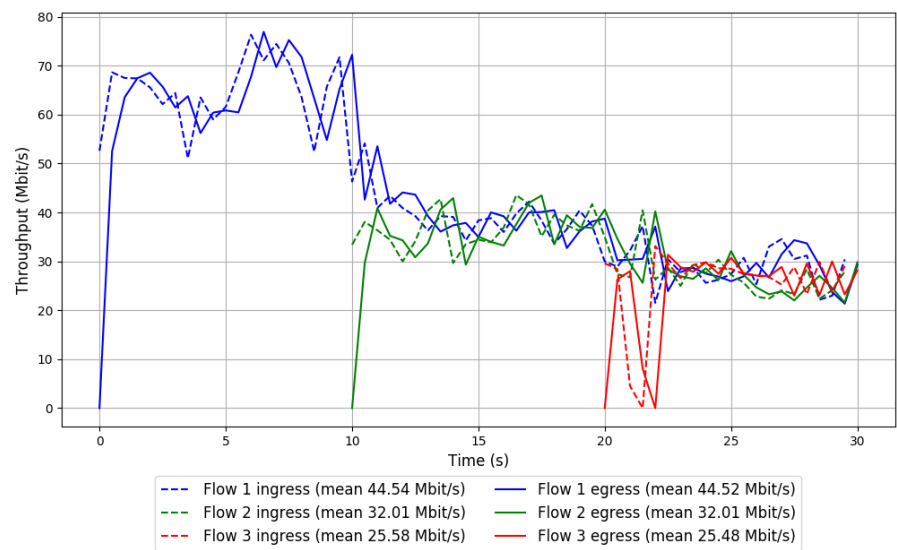


Run 1: Statistics of Verus

Start at: 2018-07-10 20:17:14  
End at: 2018-07-10 20:17:44  
Local clock offset: 0.163 ms  
Remote clock offset: -5.636 ms

# Below is generated by plot.py at 2018-07-11 00:06:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.27 Mbit/s  
95th percentile per-packet one-way delay: 38.457 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 44.52 Mbit/s  
95th percentile per-packet one-way delay: 36.426 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 32.01 Mbit/s  
95th percentile per-packet one-way delay: 39.528 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 25.48 Mbit/s  
95th percentile per-packet one-way delay: 45.532 ms  
Loss rate: 0.64%

Run 1: Report of Verus — Data Link

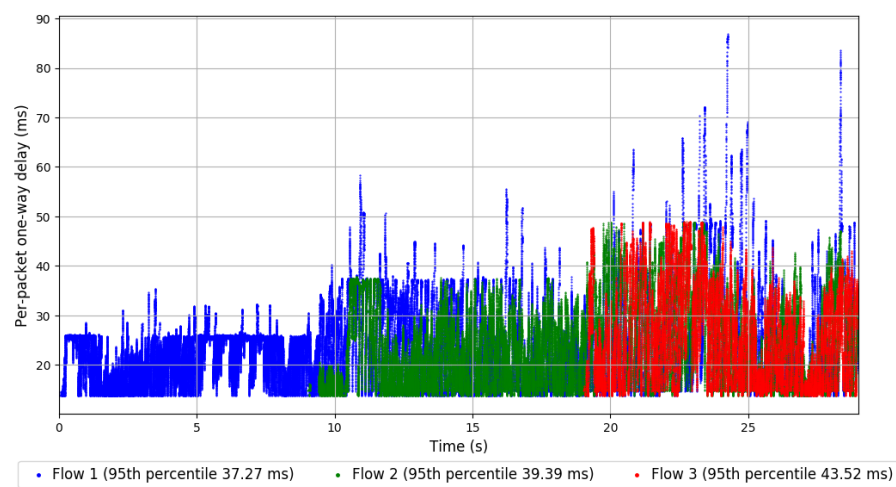
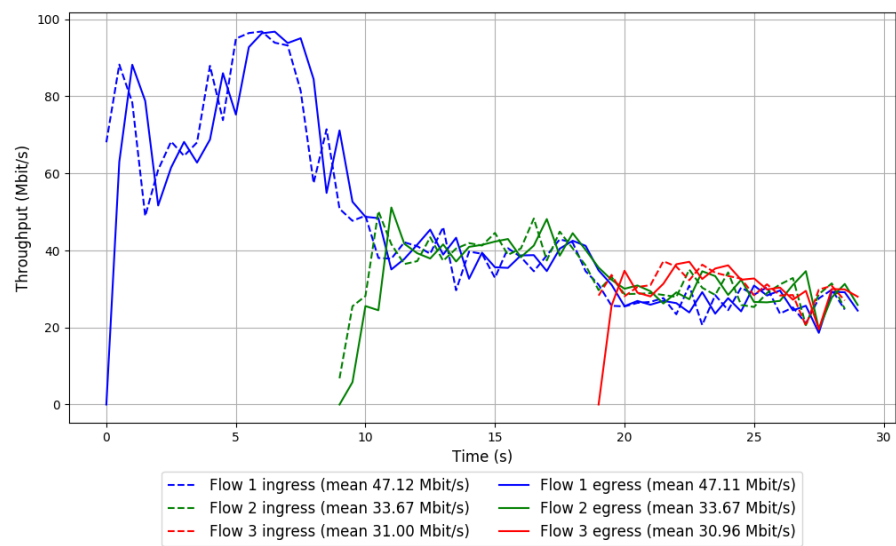


Run 2: Statistics of Verus

Start at: 2018-07-10 20:37:38  
End at: 2018-07-10 20:38:08  
Local clock offset: -0.62 ms  
Remote clock offset: -3.984 ms

# Below is generated by plot.py at 2018-07-11 00:06:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.94 Mbit/s  
95th percentile per-packet one-way delay: 39.437 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 47.11 Mbit/s  
95th percentile per-packet one-way delay: 37.274 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 33.67 Mbit/s  
95th percentile per-packet one-way delay: 39.386 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 30.96 Mbit/s  
95th percentile per-packet one-way delay: 43.524 ms  
Loss rate: 0.31%

Run 2: Report of Verus — Data Link

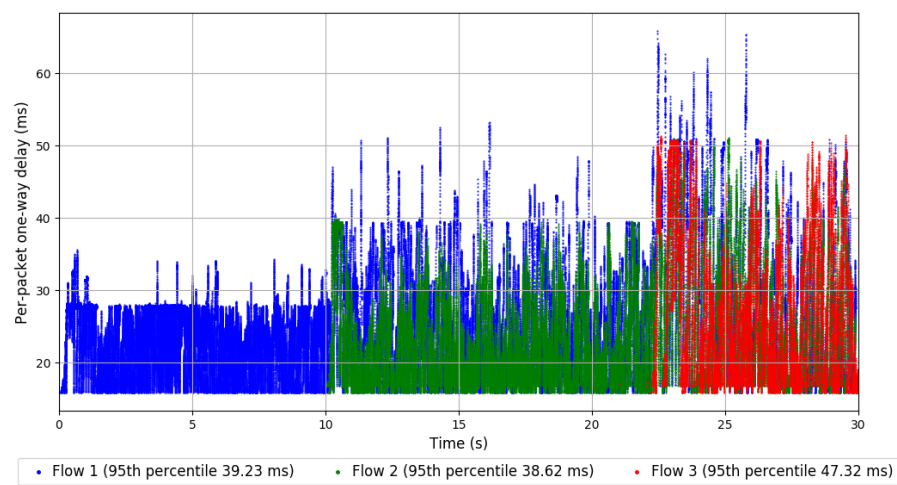
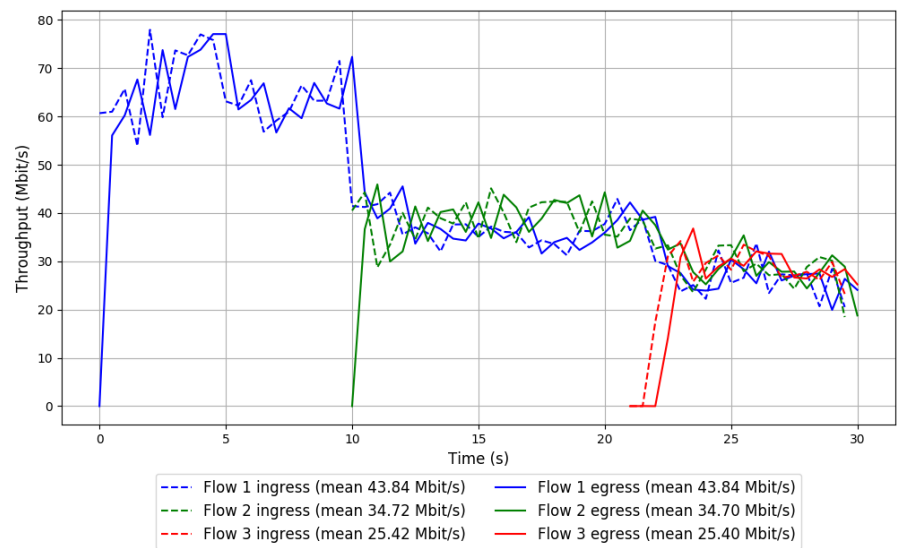


Run 3: Statistics of Verus

Start at: 2018-07-10 20:58:28  
End at: 2018-07-10 20:58:58  
Local clock offset: 0.437 ms  
Remote clock offset: -7.442 ms

# Below is generated by plot.py at 2018-07-11 00:06:12  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.52 Mbit/s  
95th percentile per-packet one-way delay: 39.830 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 43.84 Mbit/s  
95th percentile per-packet one-way delay: 39.227 ms  
Loss rate: 0.01%  
-- Flow 2:  
Average throughput: 34.70 Mbit/s  
95th percentile per-packet one-way delay: 38.616 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 25.40 Mbit/s  
95th percentile per-packet one-way delay: 47.320 ms  
Loss rate: 0.27%

Run 3: Report of Verus — Data Link



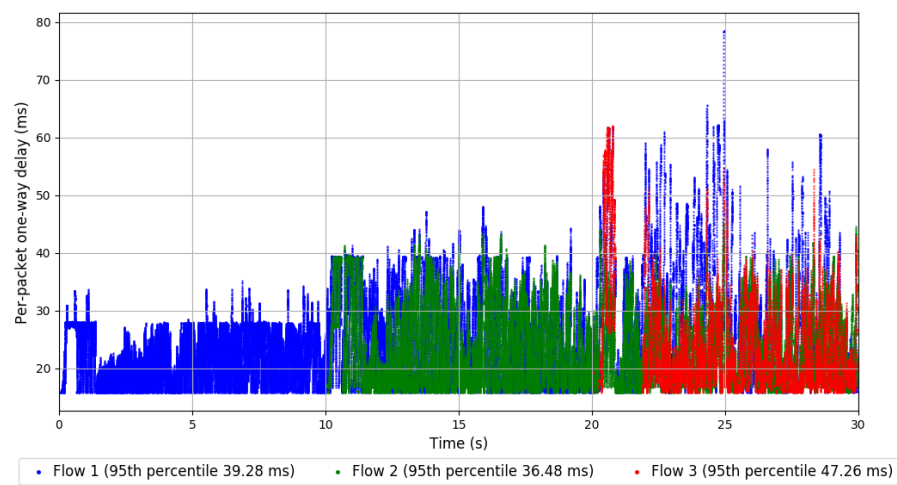
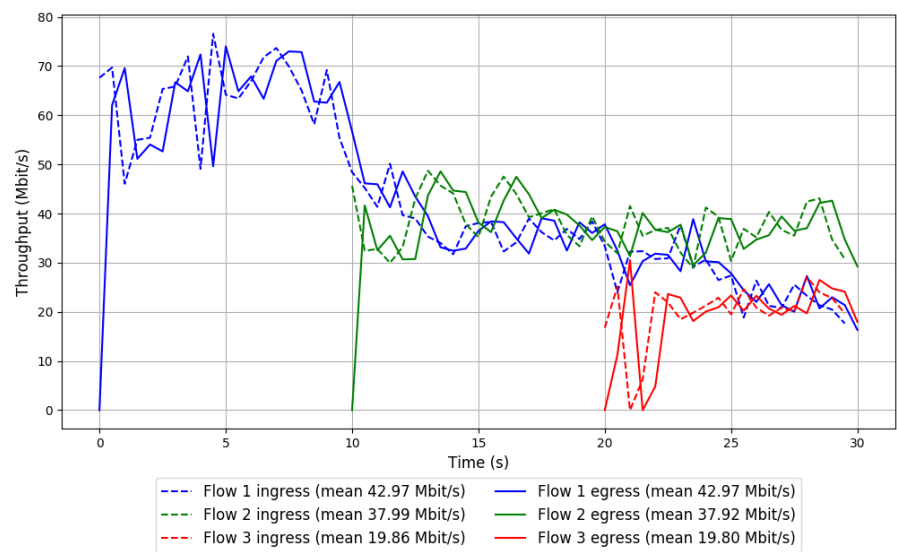
Run 4: Statistics of Verus

Start at: 2018-07-10 21:18:57  
End at: 2018-07-10 21:19:27  
Local clock offset: -0.021 ms  
Remote clock offset: -7.217 ms

# Below is generated by plot.py at 2018-07-11 00:06:14  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.78 Mbit/s  
95th percentile per-packet one-way delay: 38.849 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 42.97 Mbit/s  
95th percentile per-packet one-way delay: 39.283 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 37.92 Mbit/s  
95th percentile per-packet one-way delay: 36.475 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 19.80 Mbit/s  
95th percentile per-packet one-way delay: 47.263 ms  
Loss rate: 0.48%



Run 4: Report of Verus — Data Link

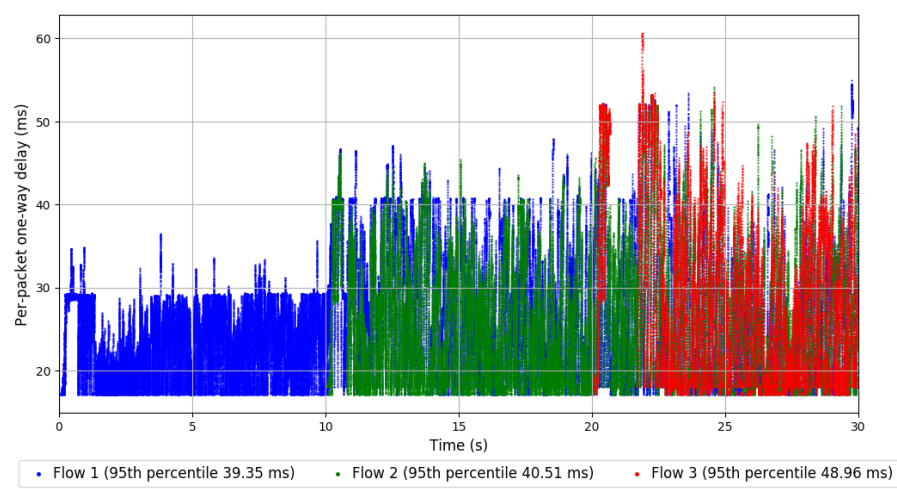
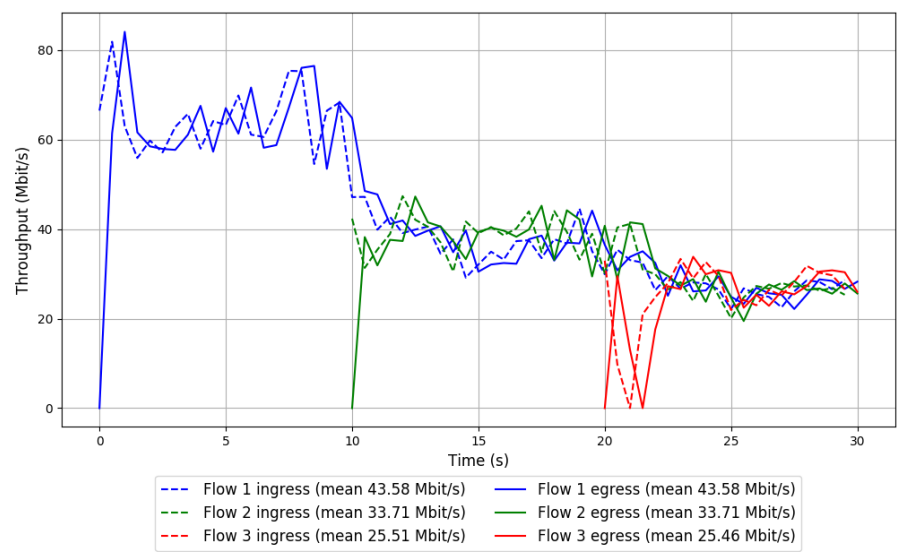


Run 5: Statistics of Verus

Start at: 2018-07-10 21:39:23  
End at: 2018-07-10 21:39:53  
Local clock offset: 1.51 ms  
Remote clock offset: -5.921 ms

# Below is generated by plot.py at 2018-07-11 00:06:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.47 Mbit/s  
95th percentile per-packet one-way delay: 40.622 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 43.58 Mbit/s  
95th percentile per-packet one-way delay: 39.346 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 33.71 Mbit/s  
95th percentile per-packet one-way delay: 40.509 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 25.46 Mbit/s  
95th percentile per-packet one-way delay: 48.963 ms  
Loss rate: 0.46%

Run 5: Report of Verus — Data Link

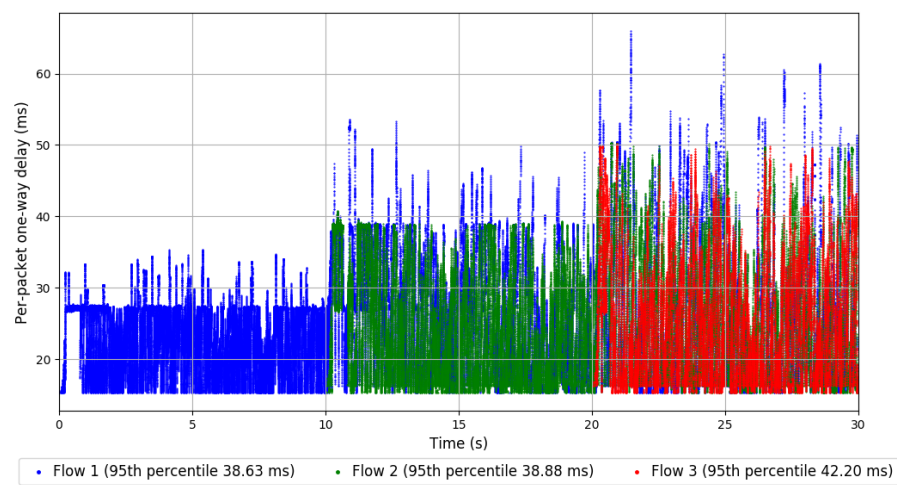
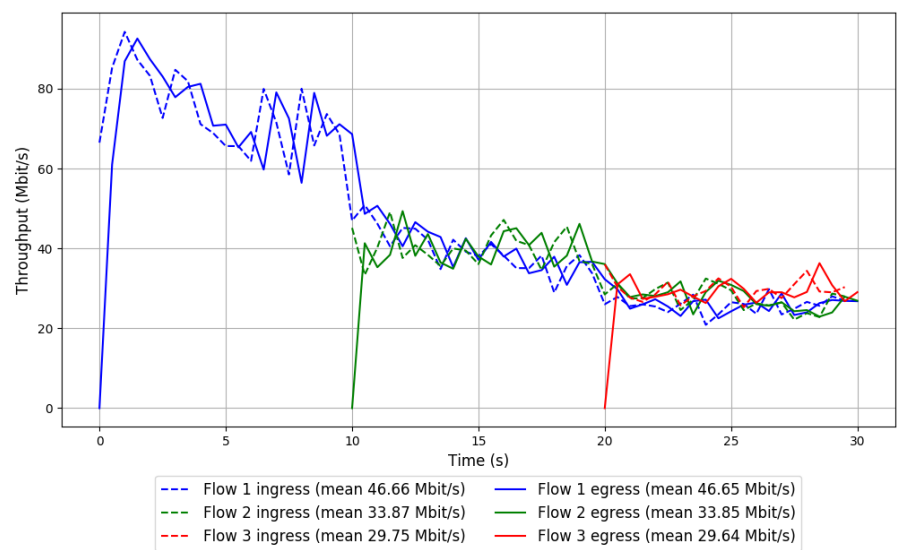


Run 6: Statistics of Verus

Start at: 2018-07-10 21:59:54  
End at: 2018-07-10 22:00:24  
Local clock offset: -0.503 ms  
Remote clock offset: -4.906 ms

# Below is generated by plot.py at 2018-07-11 00:06:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.03 Mbit/s  
95th percentile per-packet one-way delay: 38.916 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 46.65 Mbit/s  
95th percentile per-packet one-way delay: 38.632 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 33.85 Mbit/s  
95th percentile per-packet one-way delay: 38.884 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 29.64 Mbit/s  
95th percentile per-packet one-way delay: 42.205 ms  
Loss rate: 0.61%

Run 6: Report of Verus — Data Link

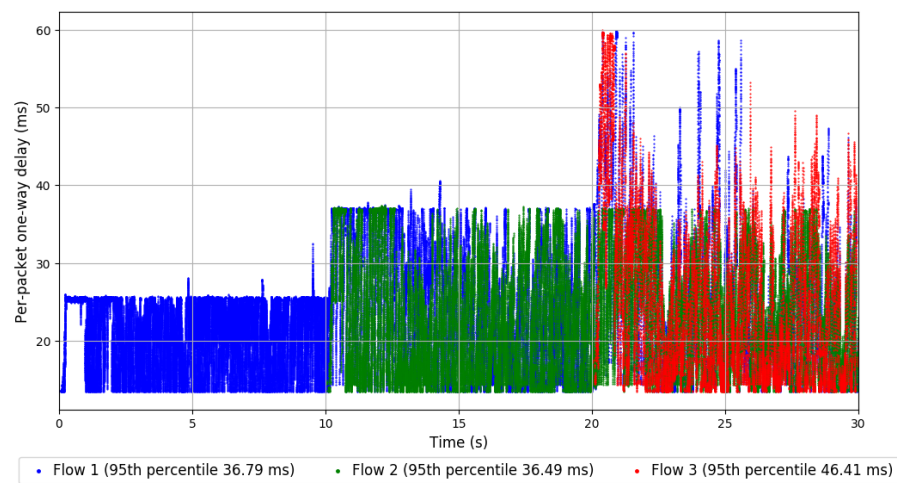
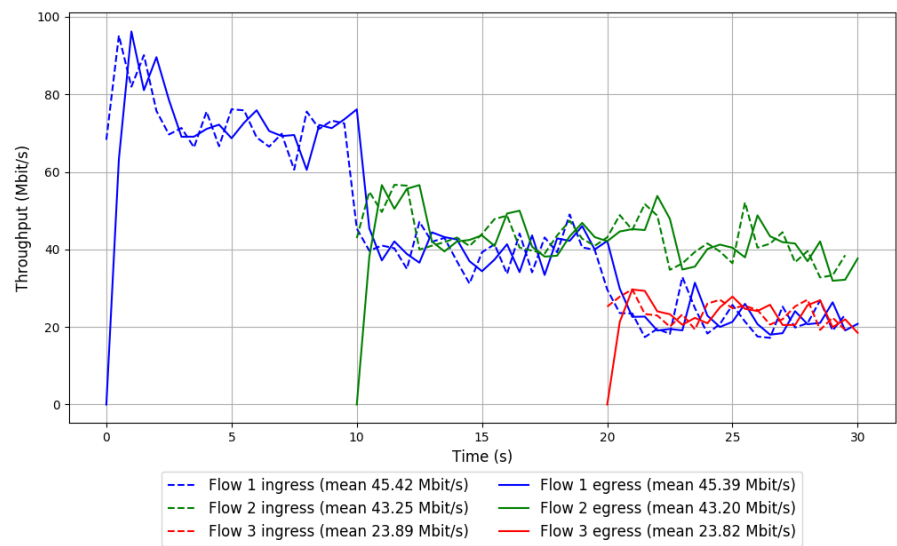


Run 7: Statistics of Verus

Start at: 2018-07-10 22:20:15  
End at: 2018-07-10 22:20:45  
Local clock offset: -0.809 ms  
Remote clock offset: -2.585 ms

# Below is generated by plot.py at 2018-07-11 00:06:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.05 Mbit/s  
95th percentile per-packet one-way delay: 36.816 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 45.39 Mbit/s  
95th percentile per-packet one-way delay: 36.787 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 43.20 Mbit/s  
95th percentile per-packet one-way delay: 36.492 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 23.82 Mbit/s  
95th percentile per-packet one-way delay: 46.405 ms  
Loss rate: 0.52%

Run 7: Report of Verus — Data Link



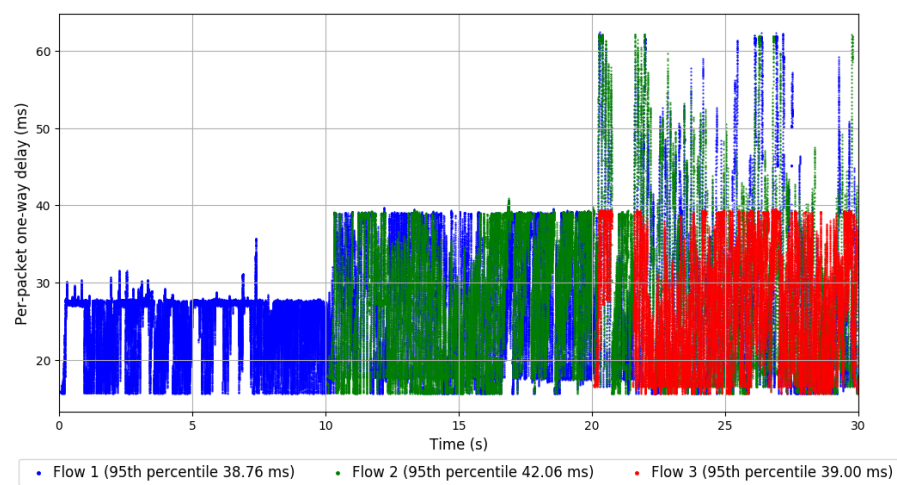
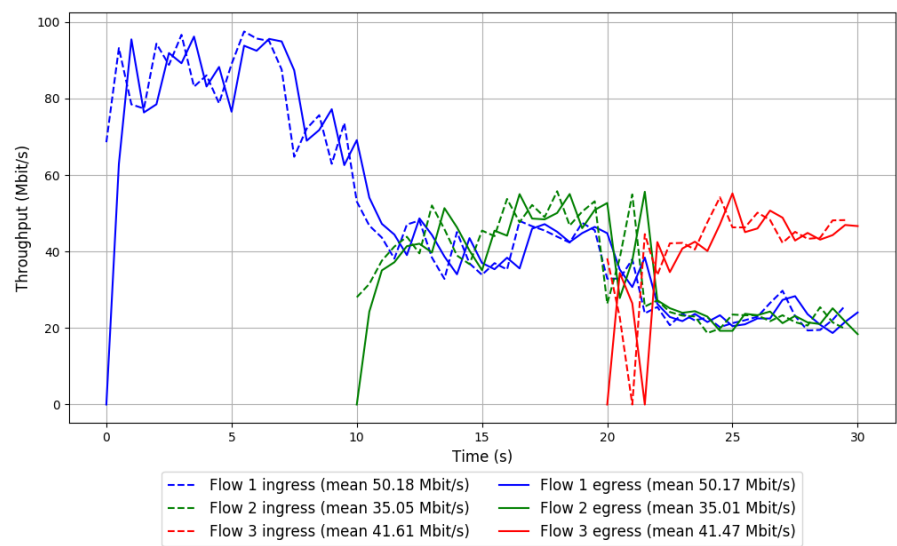
Run 8: Statistics of Verus

Start at: 2018-07-10 22:40:35  
End at: 2018-07-10 22:41:05  
Local clock offset: 1.756 ms  
Remote clock offset: -5.529 ms

# Below is generated by plot.py at 2018-07-11 00:06:53  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.22 Mbit/s  
95th percentile per-packet one-way delay: 38.963 ms  
Loss rate: 0.25%  
-- Flow 1:  
Average throughput: 50.17 Mbit/s  
95th percentile per-packet one-way delay: 38.758 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 35.01 Mbit/s  
95th percentile per-packet one-way delay: 42.059 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 41.47 Mbit/s  
95th percentile per-packet one-way delay: 39.002 ms  
Loss rate: 0.58%



Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-07-10 23:00:57

End at: 2018-07-10 23:01:27

Local clock offset: 1.227 ms

Remote clock offset: -9.63 ms

# Below is generated by plot.py at 2018-07-11 00:07:14

# Datalink statistics

-- Total of 3 flows:

Average throughput: 93.63 Mbit/s

95th percentile per-packet one-way delay: 41.205 ms

Loss rate: 0.28%

-- Flow 1:

Average throughput: 52.37 Mbit/s

95th percentile per-packet one-way delay: 40.021 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 49.07 Mbit/s

95th percentile per-packet one-way delay: 40.012 ms

Loss rate: 0.28%

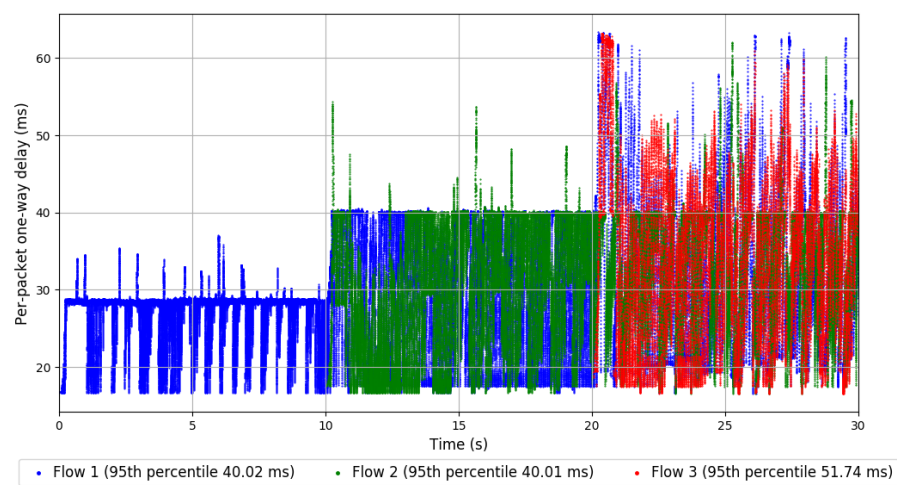
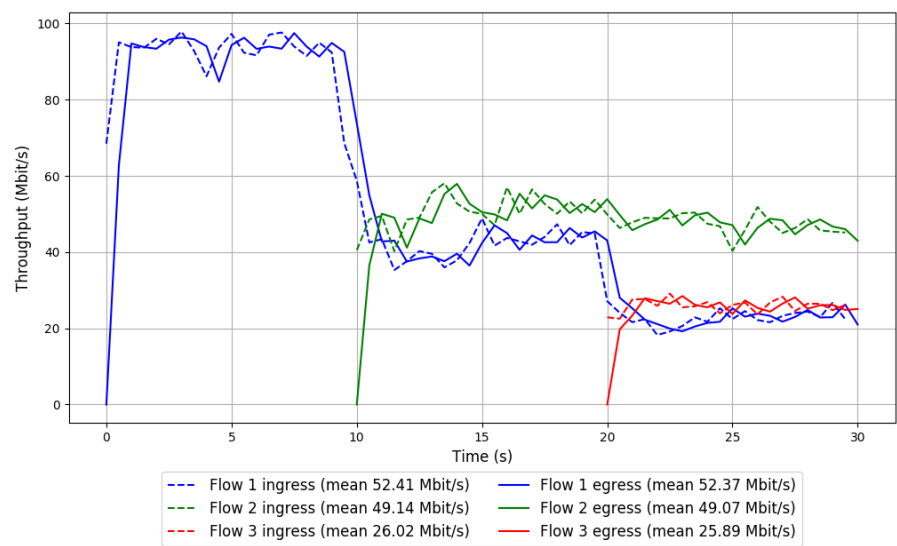
-- Flow 3:

Average throughput: 25.89 Mbit/s

95th percentile per-packet one-way delay: 51.740 ms

Loss rate: 0.69%

Run 9: Report of Verus — Data Link

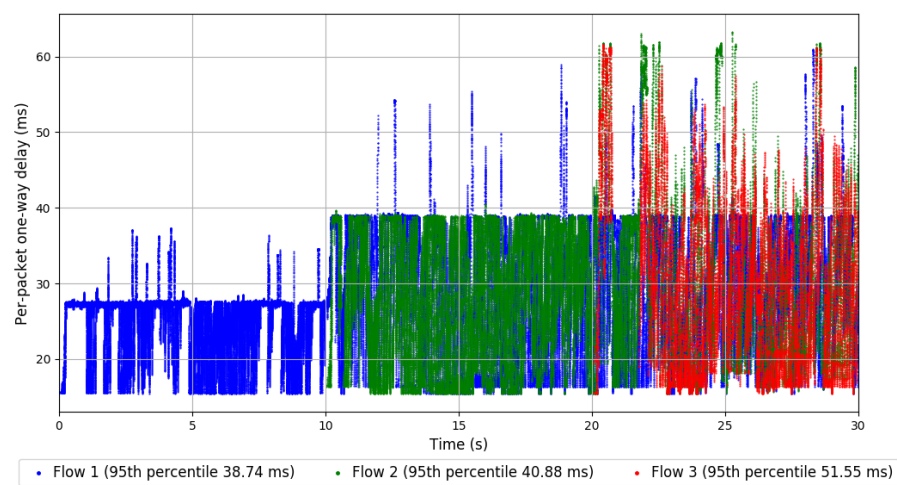
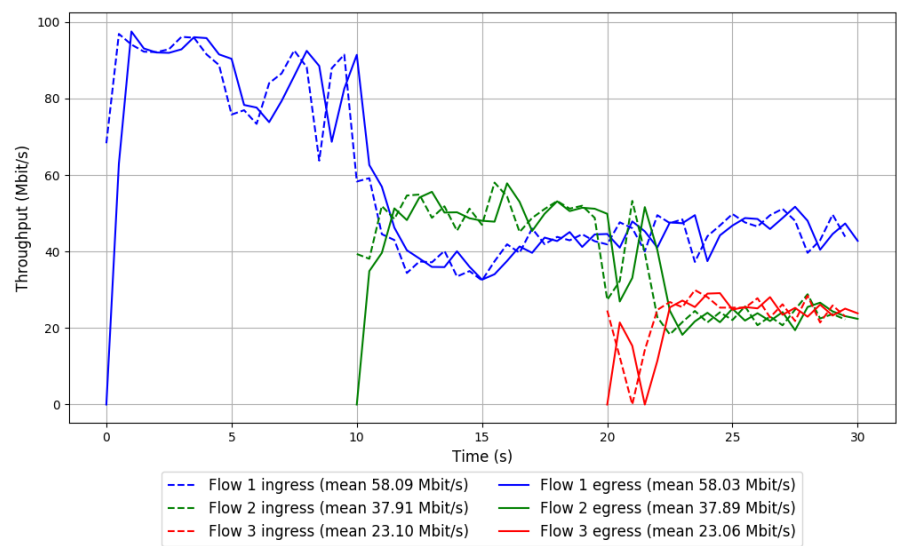


Run 10: Statistics of Verus

Start at: 2018-07-10 23:21:14  
End at: 2018-07-10 23:21:44  
Local clock offset: 0.189 ms  
Remote clock offset: -12.458 ms

# Below is generated by plot.py at 2018-07-11 00:07:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.90 Mbit/s  
95th percentile per-packet one-way delay: 38.985 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 58.03 Mbit/s  
95th percentile per-packet one-way delay: 38.736 ms  
Loss rate: 0.18%  
-- Flow 2:  
Average throughput: 37.89 Mbit/s  
95th percentile per-packet one-way delay: 40.879 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 23.06 Mbit/s  
95th percentile per-packet one-way delay: 51.551 ms  
Loss rate: 0.37%

Run 10: Report of Verus — Data Link

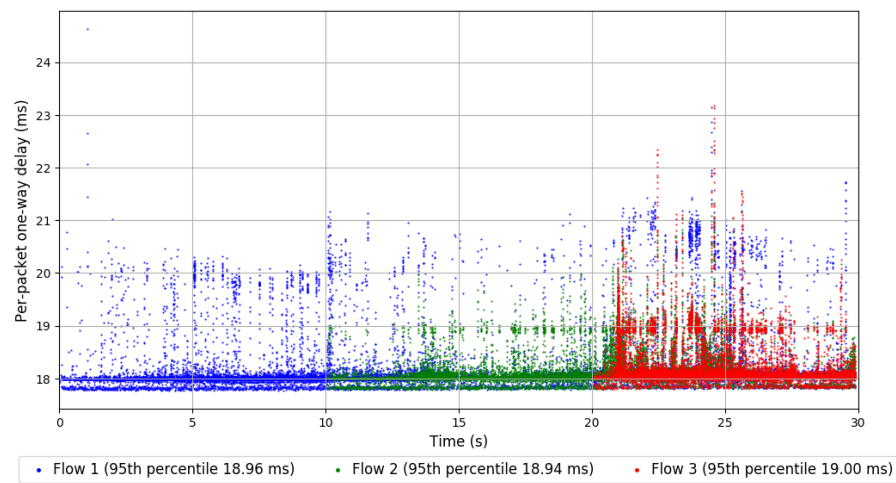
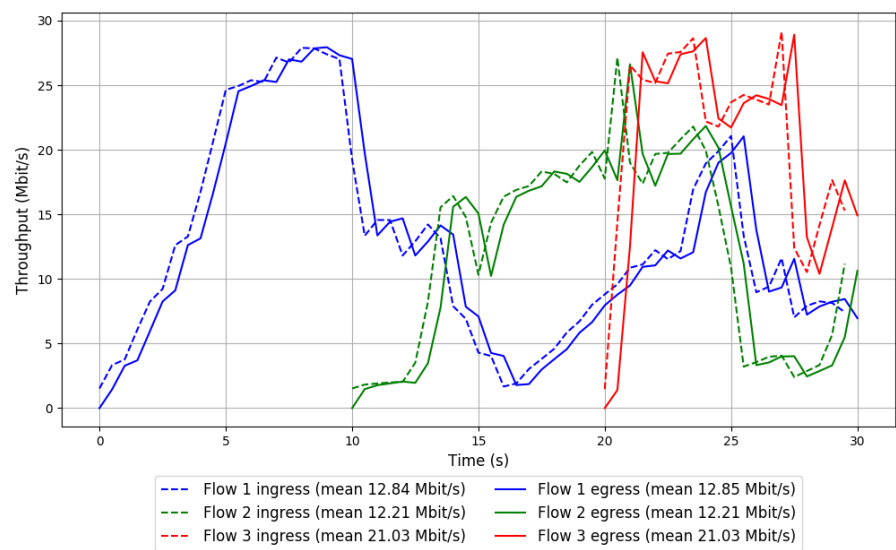


Run 1: Statistics of PCC-Vivace

Start at: 2018-07-10 20:25:38  
End at: 2018-07-10 20:26:08  
Local clock offset: 2.026 ms  
Remote clock offset: -6.255 ms

# Below is generated by plot.py at 2018-07-11 00:07:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.90 Mbit/s  
95th percentile per-packet one-way delay: 18.970 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 12.85 Mbit/s  
95th percentile per-packet one-way delay: 18.963 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 12.21 Mbit/s  
95th percentile per-packet one-way delay: 18.937 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 21.03 Mbit/s  
95th percentile per-packet one-way delay: 19.004 ms  
Loss rate: 0.24%

Run 1: Report of PCC-Vivace — Data Link



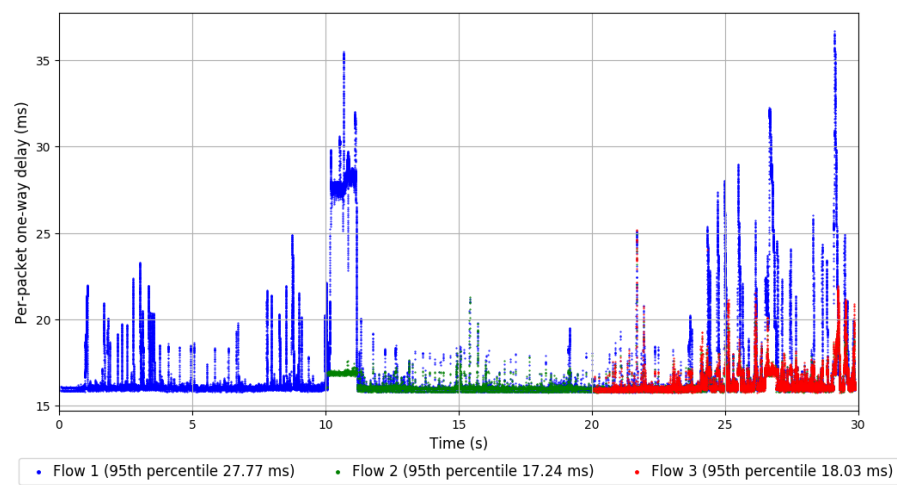
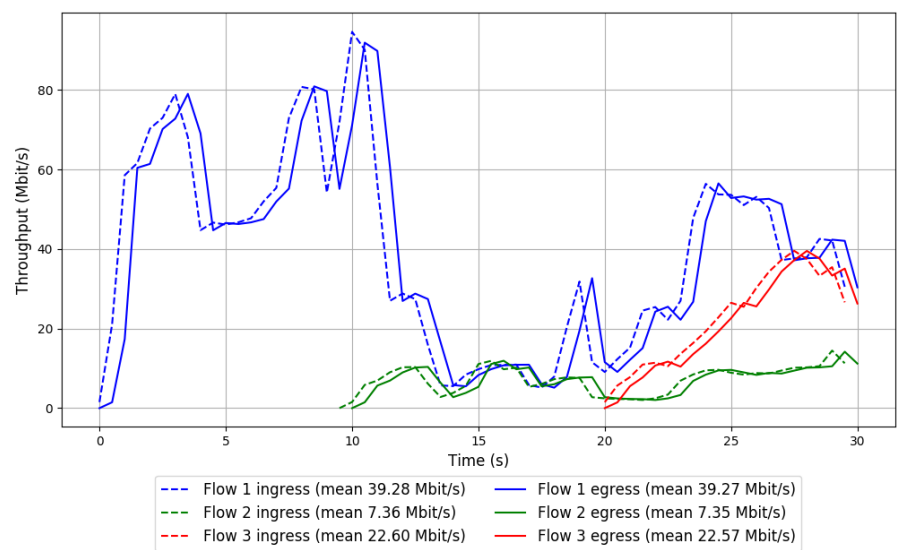
Run 2: Statistics of PCC-Vivace

Start at: 2018-07-10 20:46:09  
End at: 2018-07-10 20:46:39  
Local clock offset: 0.755 ms  
Remote clock offset: -6.332 ms

# Below is generated by plot.py at 2018-07-11 00:07:24  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 51.60 Mbit/s  
95th percentile per-packet one-way delay: 27.591 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 39.27 Mbit/s  
95th percentile per-packet one-way delay: 27.769 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 7.35 Mbit/s  
95th percentile per-packet one-way delay: 17.244 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 22.57 Mbit/s  
95th percentile per-packet one-way delay: 18.027 ms  
Loss rate: 0.39%



Run 2: Report of PCC-Vivace — Data Link

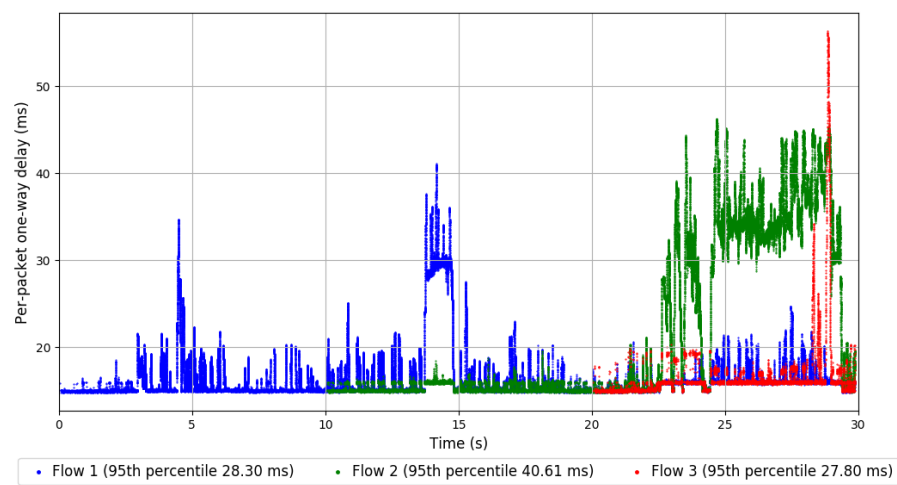
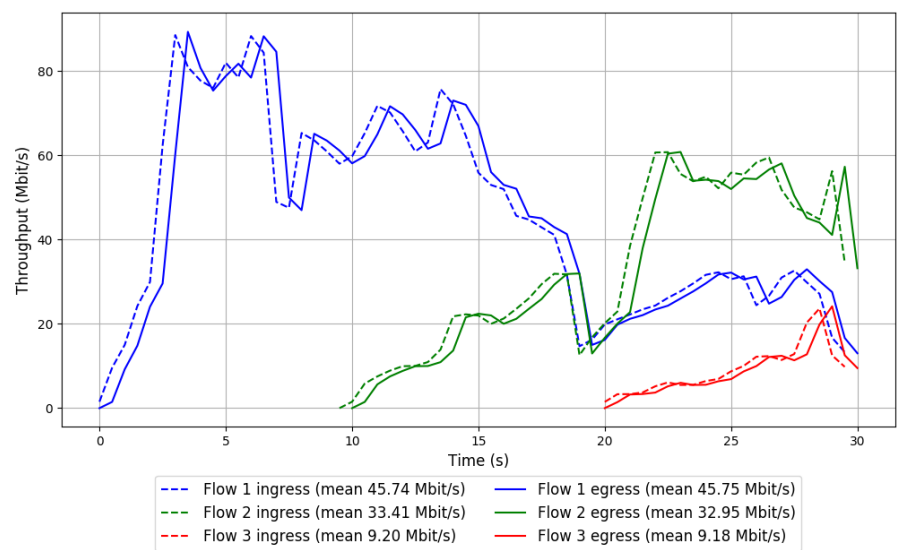


Run 3: Statistics of PCC-Vivace

Start at: 2018-07-10 21:06:50  
End at: 2018-07-10 21:07:20  
Local clock offset: 0.524 ms  
Remote clock offset: -6.661 ms

# Below is generated by plot.py at 2018-07-11 00:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.68 Mbit/s  
95th percentile per-packet one-way delay: 35.421 ms  
Loss rate: 0.52%  
-- Flow 1:  
Average throughput: 45.75 Mbit/s  
95th percentile per-packet one-way delay: 28.295 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 32.95 Mbit/s  
95th percentile per-packet one-way delay: 40.606 ms  
Loss rate: 1.51%  
-- Flow 3:  
Average throughput: 9.18 Mbit/s  
95th percentile per-packet one-way delay: 27.802 ms  
Loss rate: 0.38%

Run 3: Report of PCC-Vivace — Data Link

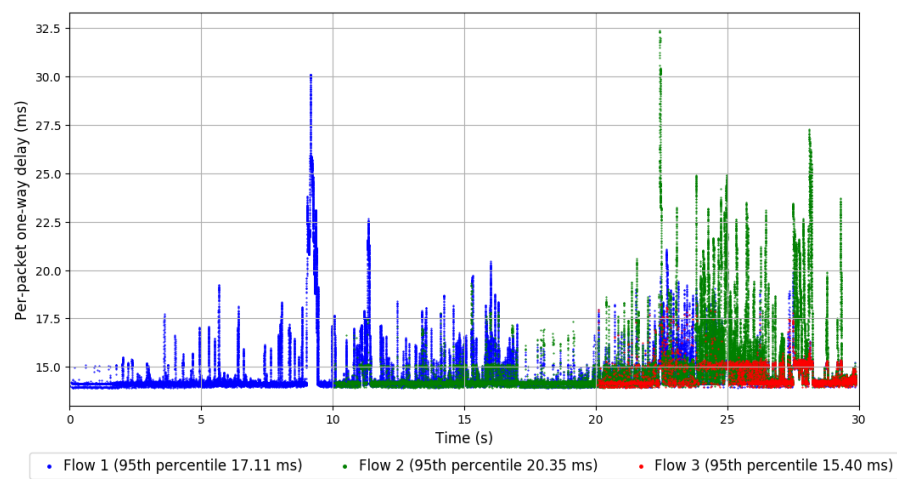
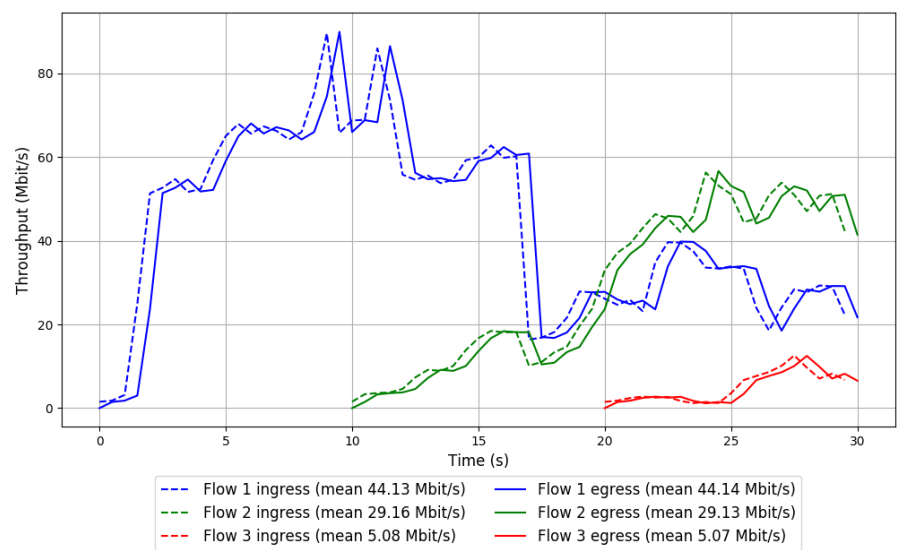


Run 4: Statistics of PCC-Vivace

Start at: 2018-07-10 21:27:24  
End at: 2018-07-10 21:27:54  
Local clock offset: -0.983 ms  
Remote clock offset: -5.864 ms

# Below is generated by plot.py at 2018-07-11 00:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 65.18 Mbit/s  
95th percentile per-packet one-way delay: 18.431 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 44.14 Mbit/s  
95th percentile per-packet one-way delay: 17.115 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 29.13 Mbit/s  
95th percentile per-packet one-way delay: 20.349 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 5.07 Mbit/s  
95th percentile per-packet one-way delay: 15.400 ms  
Loss rate: 0.46%

Run 4: Report of PCC-Vivace — Data Link

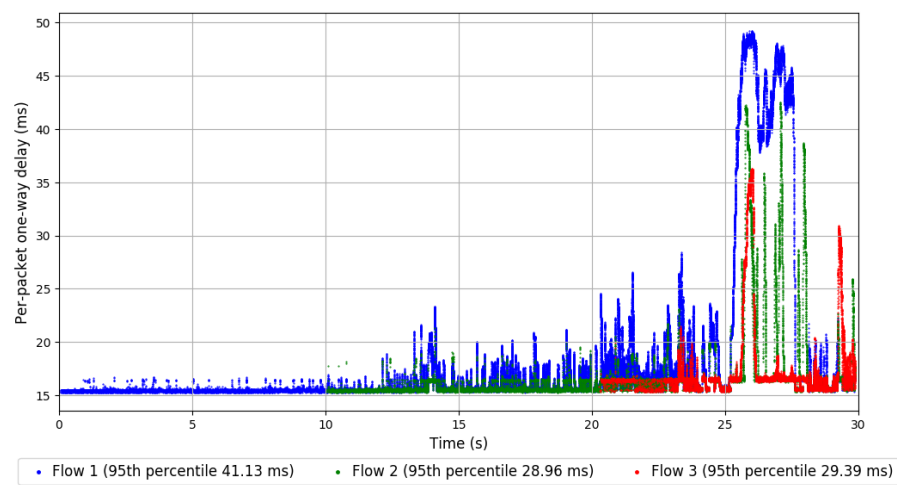
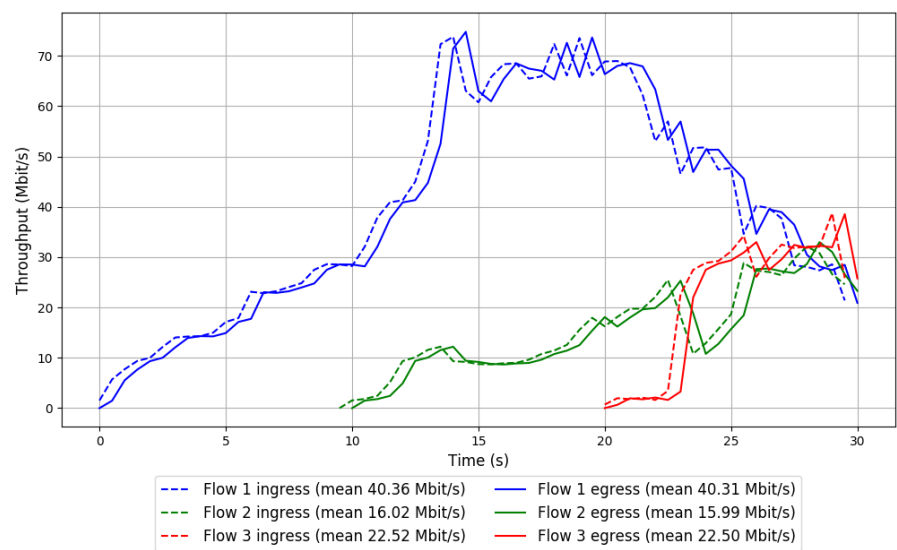


Run 5: Statistics of PCC-Vivace

Start at: 2018-07-10 21:47:52  
End at: 2018-07-10 21:48:22  
Local clock offset: -0.262 ms  
Remote clock offset: -5.781 ms

# Below is generated by plot.py at 2018-07-11 00:07:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 58.19 Mbit/s  
95th percentile per-packet one-way delay: 36.042 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 40.31 Mbit/s  
95th percentile per-packet one-way delay: 41.126 ms  
Loss rate: 0.19%  
-- Flow 2:  
Average throughput: 15.99 Mbit/s  
95th percentile per-packet one-way delay: 28.959 ms  
Loss rate: 0.36%  
-- Flow 3:  
Average throughput: 22.50 Mbit/s  
95th percentile per-packet one-way delay: 29.387 ms  
Loss rate: 0.33%

Run 5: Report of PCC-Vivace — Data Link



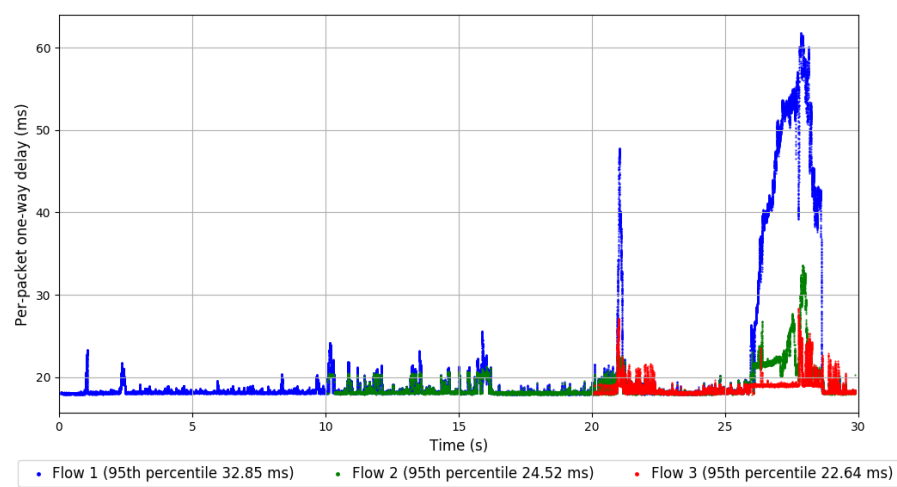
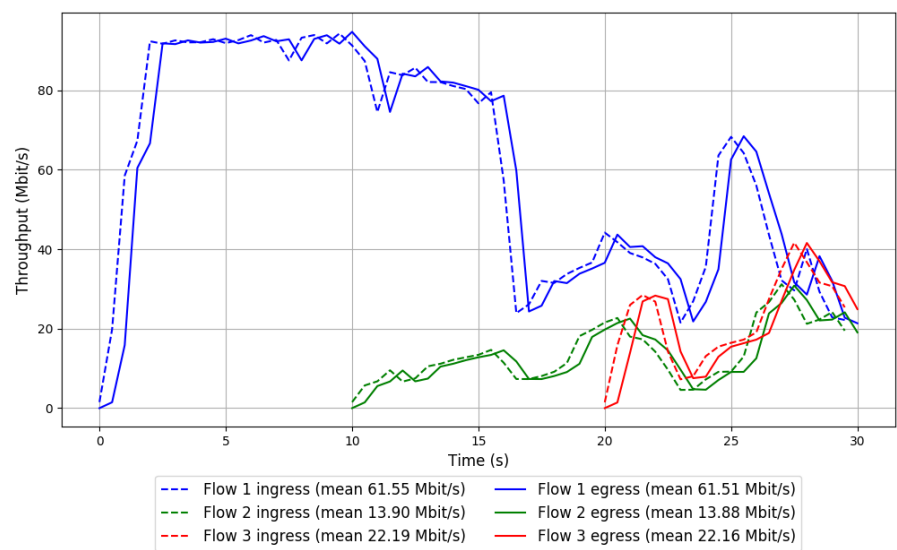
Run 6: Statistics of PCC-Vivace

Start at: 2018-07-10 22:08:10  
End at: 2018-07-10 22:08:40  
Local clock offset: 2.979 ms  
Remote clock offset: -3.823 ms

# Below is generated by plot.py at 2018-07-11 00:07:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.04 Mbit/s  
95th percentile per-packet one-way delay: 25.812 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 61.51 Mbit/s  
95th percentile per-packet one-way delay: 32.847 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 13.88 Mbit/s  
95th percentile per-packet one-way delay: 24.520 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 22.16 Mbit/s  
95th percentile per-packet one-way delay: 22.641 ms  
Loss rate: 0.36%



Run 6: Report of PCC-Vivace — Data Link

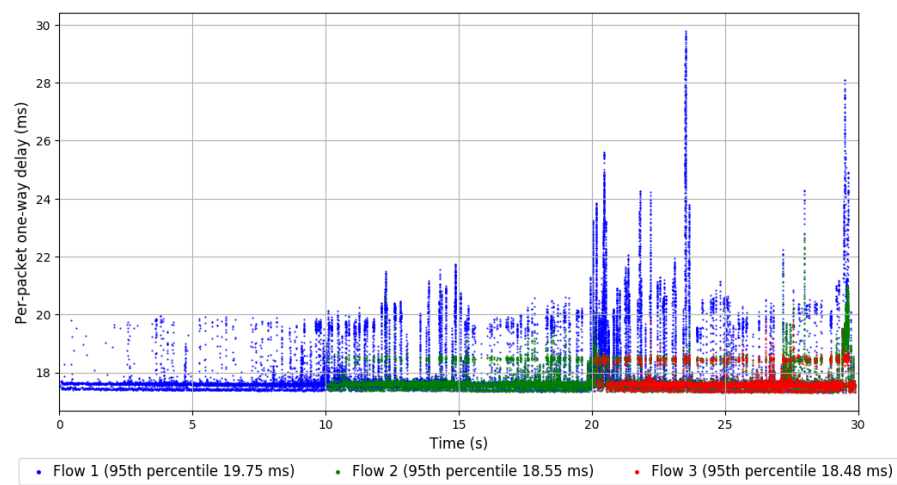
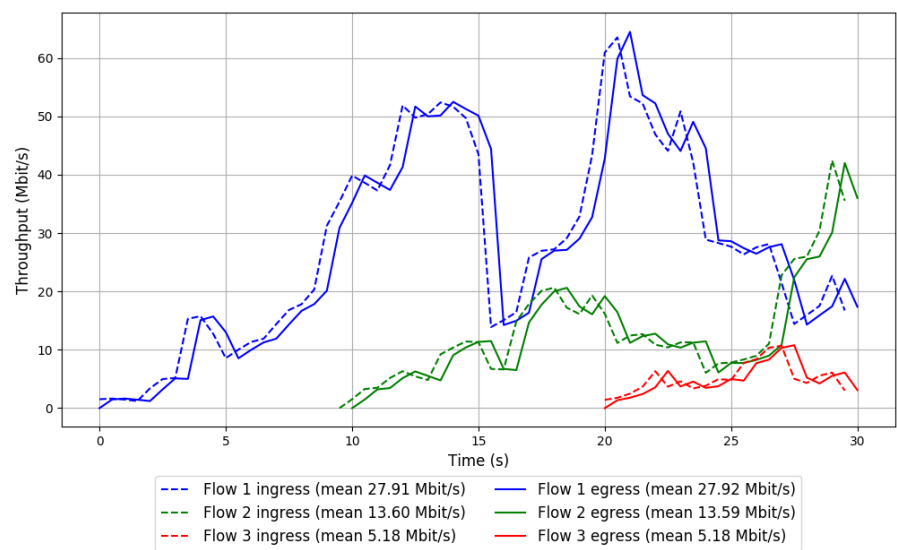


Run 7: Statistics of PCC-Vivace

Start at: 2018-07-10 22:28:28  
End at: 2018-07-10 22:28:58  
Local clock offset: 2.45 ms  
Remote clock offset: -5.325 ms

# Below is generated by plot.py at 2018-07-11 00:07:56  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 38.67 Mbit/s  
95th percentile per-packet one-way delay: 19.464 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 27.92 Mbit/s  
95th percentile per-packet one-way delay: 19.749 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 13.59 Mbit/s  
95th percentile per-packet one-way delay: 18.552 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 5.18 Mbit/s  
95th percentile per-packet one-way delay: 18.475 ms  
Loss rate: 0.12%

Run 7: Report of PCC-Vivace — Data Link

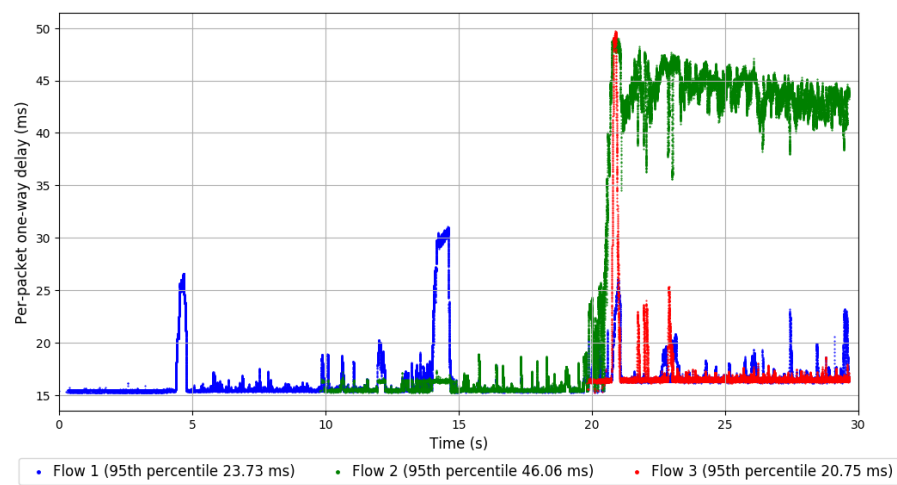
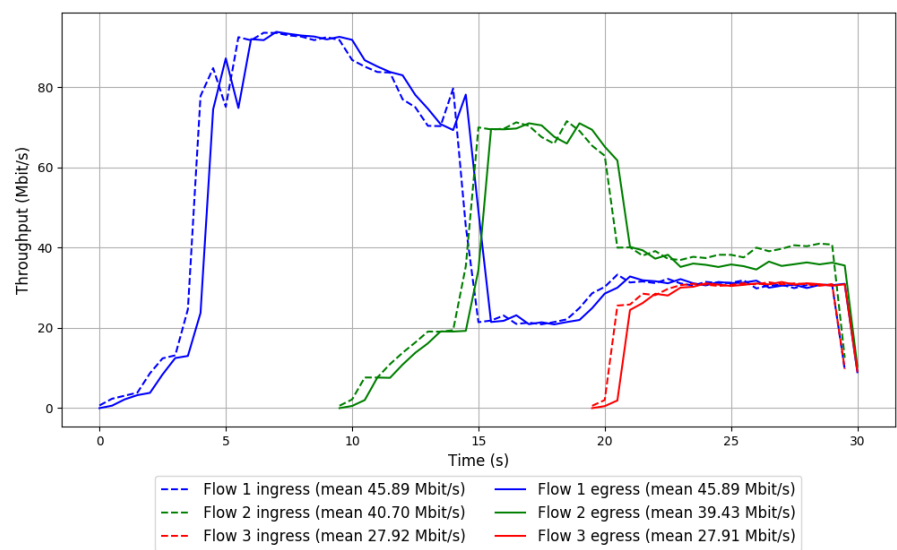


Run 8: Statistics of PCC-Vivace

Start at: 2018-07-10 22:49:01  
End at: 2018-07-10 22:49:31  
Local clock offset: 0.595 ms  
Remote clock offset: -6.969 ms

# Below is generated by plot.py at 2018-07-11 00:08:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.59 Mbit/s  
95th percentile per-packet one-way delay: 44.470 ms  
Loss rate: 1.16%  
-- Flow 1:  
Average throughput: 45.89 Mbit/s  
95th percentile per-packet one-way delay: 23.730 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.43 Mbit/s  
95th percentile per-packet one-way delay: 46.059 ms  
Loss rate: 3.28%  
-- Flow 3:  
Average throughput: 27.91 Mbit/s  
95th percentile per-packet one-way delay: 20.750 ms  
Loss rate: 0.29%

Run 8: Report of PCC-Vivace — Data Link

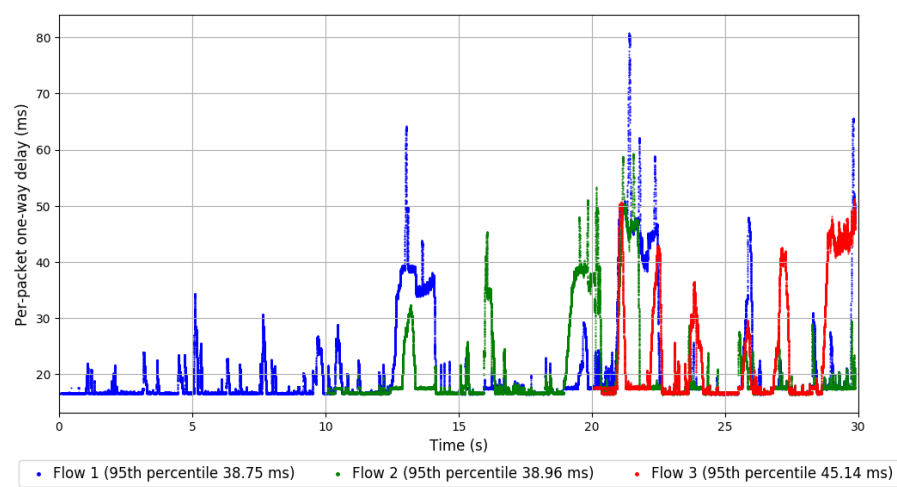
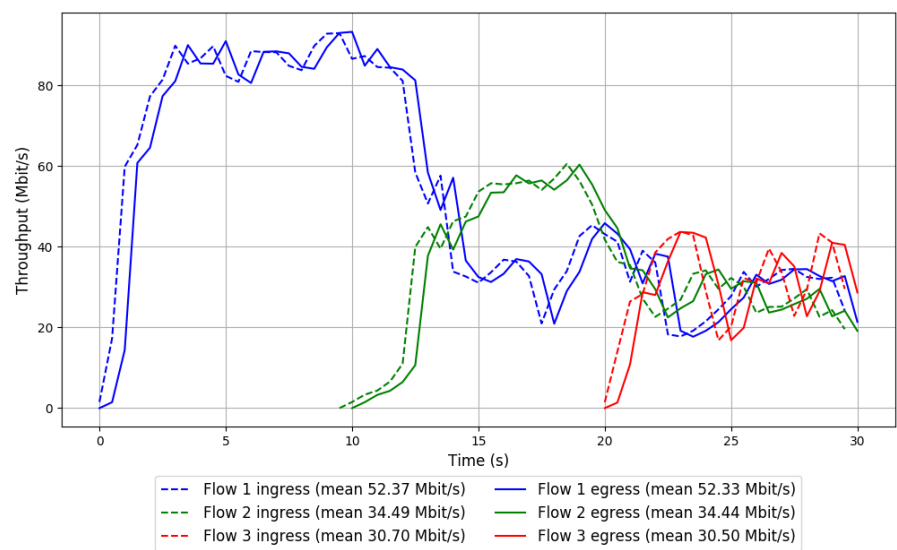


Run 9: Statistics of PCC-Vivace

Start at: 2018-07-10 23:09:08  
End at: 2018-07-10 23:09:38  
Local clock offset: 1.028 ms  
Remote clock offset: -11.413 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.29 Mbit/s  
95th percentile per-packet one-way delay: 41.852 ms  
Loss rate: 0.32%  
-- Flow 1:  
Average throughput: 52.33 Mbit/s  
95th percentile per-packet one-way delay: 38.750 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 34.44 Mbit/s  
95th percentile per-packet one-way delay: 38.956 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 30.50 Mbit/s  
95th percentile per-packet one-way delay: 45.137 ms  
Loss rate: 0.90%

Run 9: Report of PCC-Vivace — Data Link



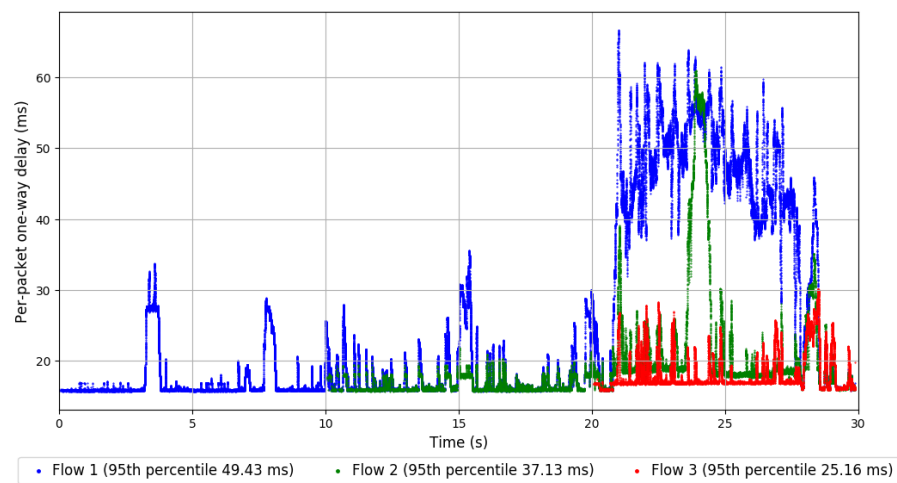
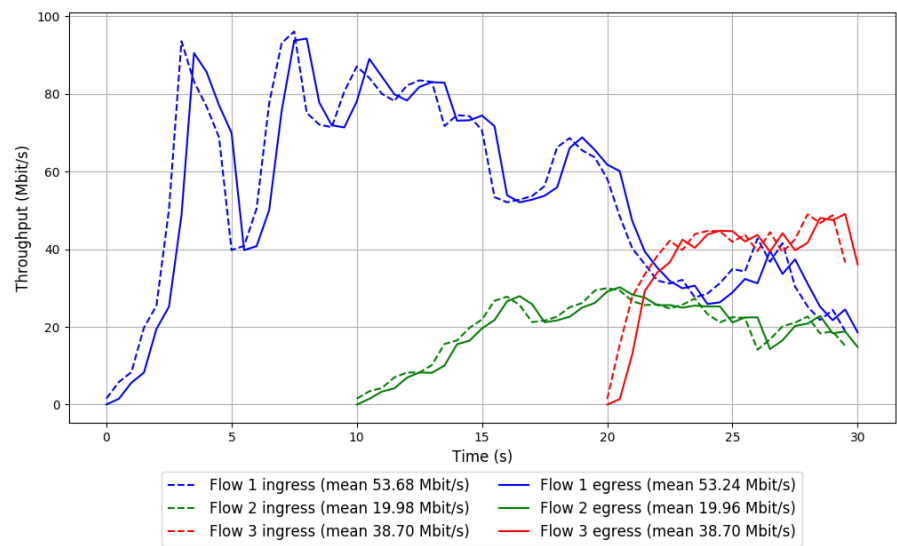
Run 10: Statistics of PCC-Vivace

Start at: 2018-07-10 23:29:38  
End at: 2018-07-10 23:30:08  
Local clock offset: -0.133 ms  
Remote clock offset: -13.963 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.26 Mbit/s  
95th percentile per-packet one-way delay: 47.292 ms  
Loss rate: 0.72%  
-- Flow 1:  
Average throughput: 53.24 Mbit/s  
95th percentile per-packet one-way delay: 49.426 ms  
Loss rate: 0.94%  
-- Flow 2:  
Average throughput: 19.96 Mbit/s  
95th percentile per-packet one-way delay: 37.133 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 38.70 Mbit/s  
95th percentile per-packet one-way delay: 25.165 ms  
Loss rate: 0.34%



Run 10: Report of PCC-Vivace — Data Link

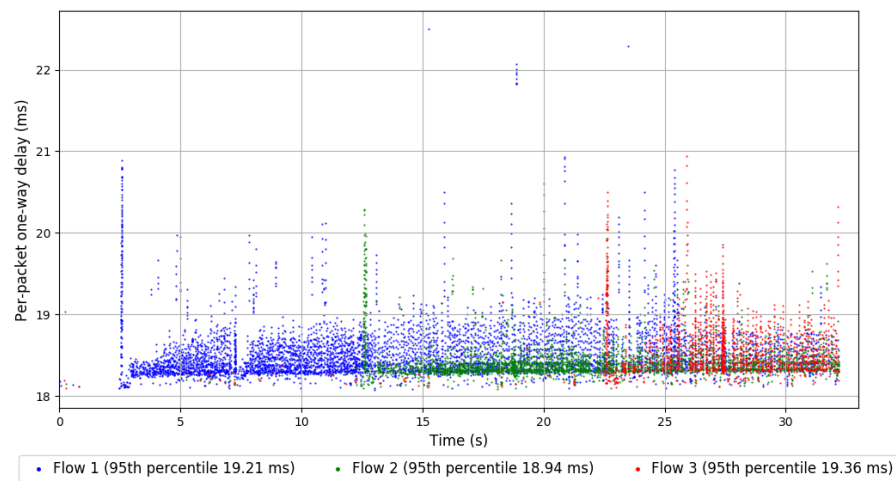
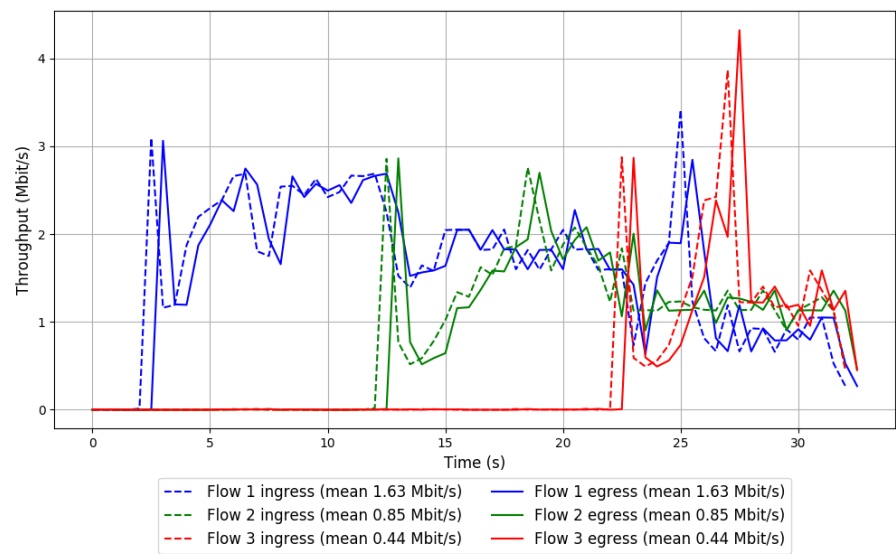


Run 1: Statistics of WebRTC media

Start at: 2018-07-10 20:29:12  
End at: 2018-07-10 20:29:42  
Local clock offset: 2.526 ms  
Remote clock offset: -5.763 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.91 Mbit/s  
95th percentile per-packet one-way delay: 19.188 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.63 Mbit/s  
95th percentile per-packet one-way delay: 19.212 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.85 Mbit/s  
95th percentile per-packet one-way delay: 18.942 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.44 Mbit/s  
95th percentile per-packet one-way delay: 19.355 ms  
Loss rate: 0.01%

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-07-10 20:49:51

End at: 2018-07-10 20:50:21

Local clock offset: -1.294 ms

Remote clock offset: -6.99 ms

# Below is generated by plot.py at 2018-07-11 00:08:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.04 Mbit/s

95th percentile per-packet one-way delay: 15.077 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 1.61 Mbit/s

95th percentile per-packet one-way delay: 15.048 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 1.00 Mbit/s

95th percentile per-packet one-way delay: 15.038 ms

Loss rate: 0.31%

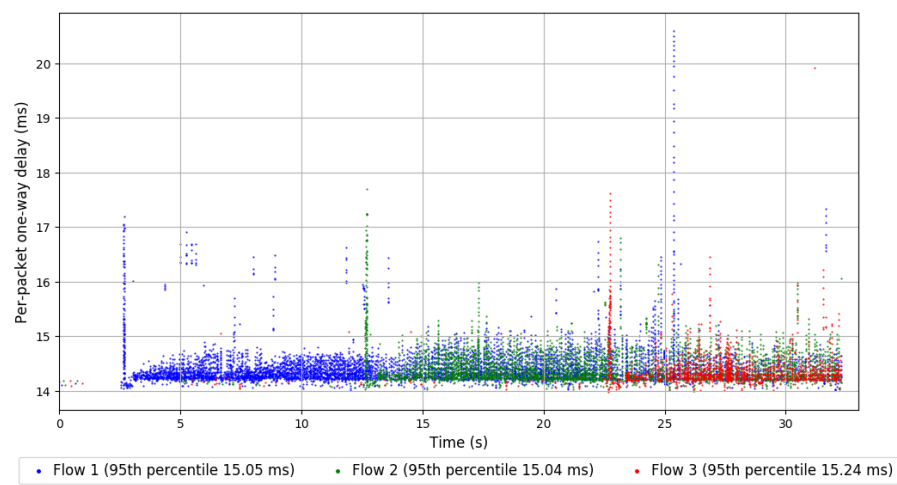
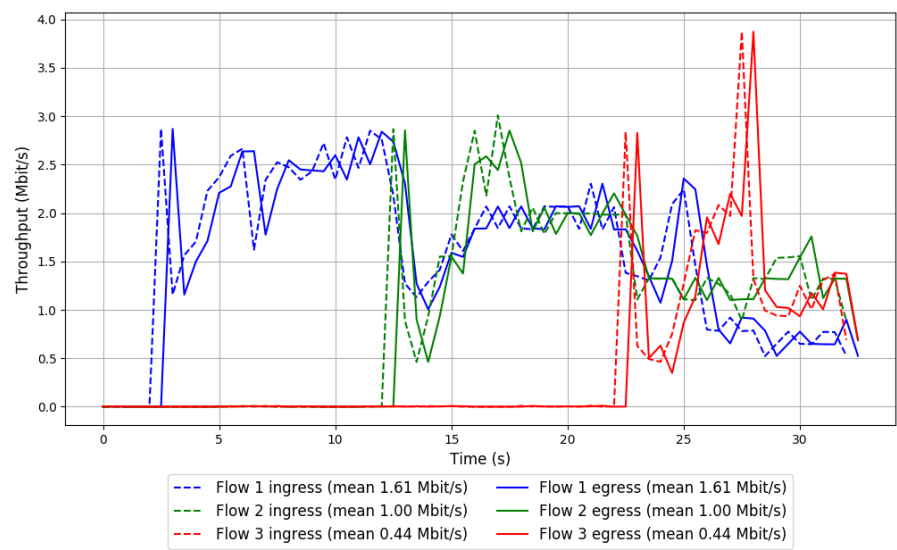
-- Flow 3:

Average throughput: 0.44 Mbit/s

95th percentile per-packet one-way delay: 15.244 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

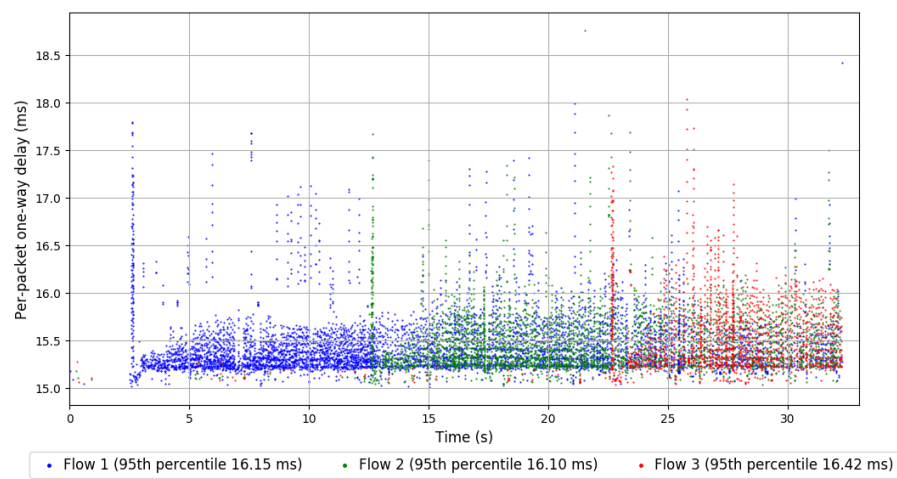
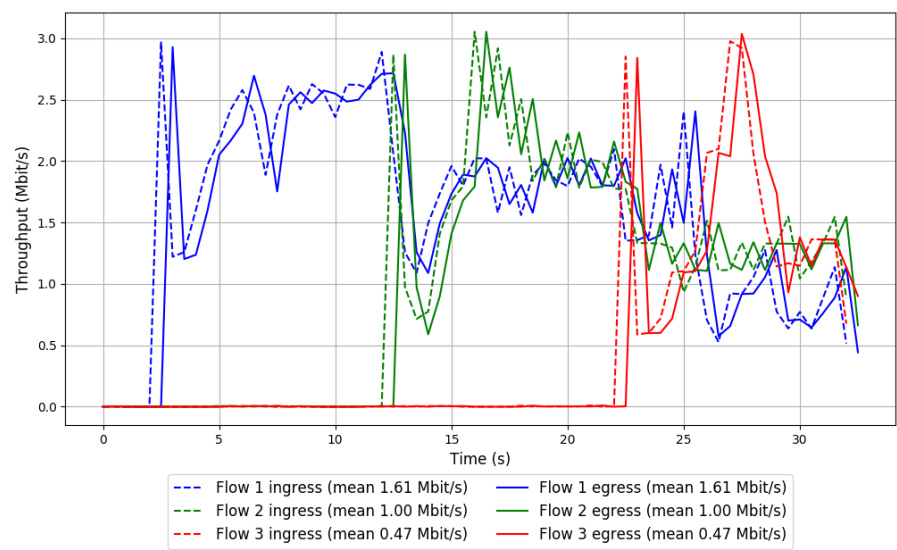


Run 3: Statistics of WebRTC media

Start at: 2018-07-10 21:10:25  
End at: 2018-07-10 21:10:55  
Local clock offset: -0.621 ms  
Remote clock offset: -8.074 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.07 Mbit/s  
95th percentile per-packet one-way delay: 16.192 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 1.61 Mbit/s  
95th percentile per-packet one-way delay: 16.148 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 1.00 Mbit/s  
95th percentile per-packet one-way delay: 16.100 ms  
Loss rate: 0.34%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 16.419 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



Run 4: Statistics of WebRTC media

Start at: 2018-07-10 21:30:59

End at: 2018-07-10 21:31:29

Local clock offset: -2.757 ms

Remote clock offset: -5.76 ms

# Below is generated by plot.py at 2018-07-11 00:08:07

# Datalink statistics

-- Total of 3 flows:

Average throughput: 3.01 Mbit/s

95th percentile per-packet one-way delay: 13.305 ms

Loss rate: 0.18%

-- Flow 1:

Average throughput: 1.63 Mbit/s

95th percentile per-packet one-way delay: 13.229 ms

Loss rate: 0.12%

-- Flow 2:

Average throughput: 0.89 Mbit/s

95th percentile per-packet one-way delay: 13.204 ms

Loss rate: 0.39%

-- Flow 3:

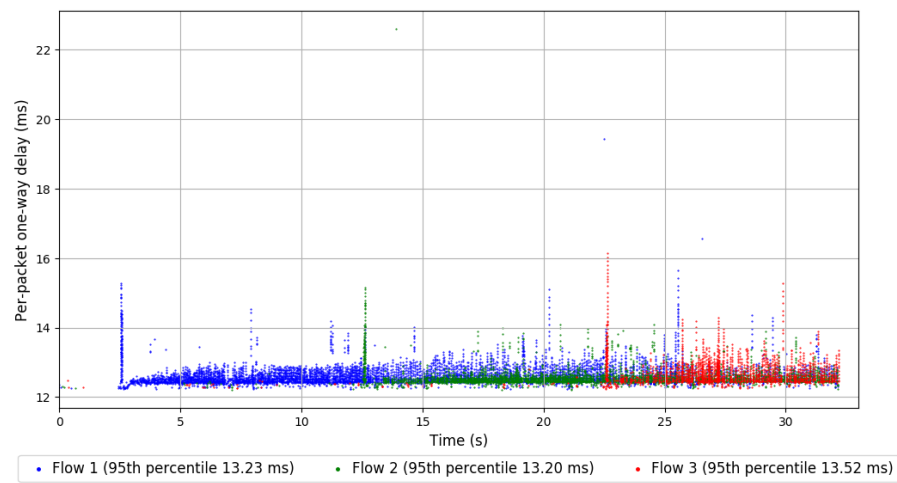
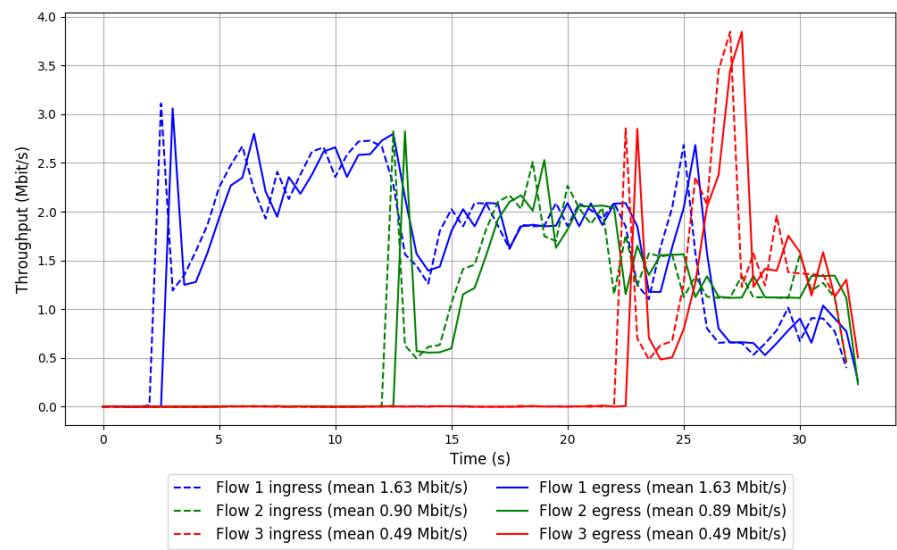
Average throughput: 0.49 Mbit/s

95th percentile per-packet one-way delay: 13.516 ms

Loss rate: 0.00%



Run 4: Report of WebRTC media — Data Link

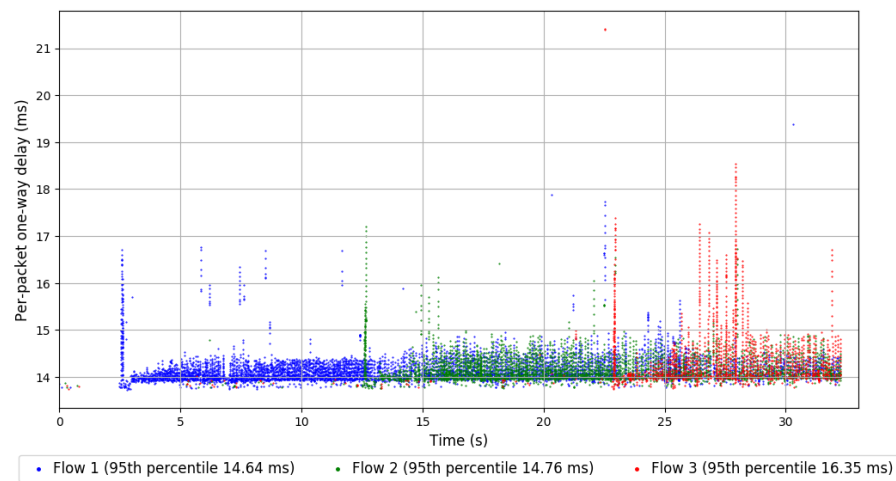
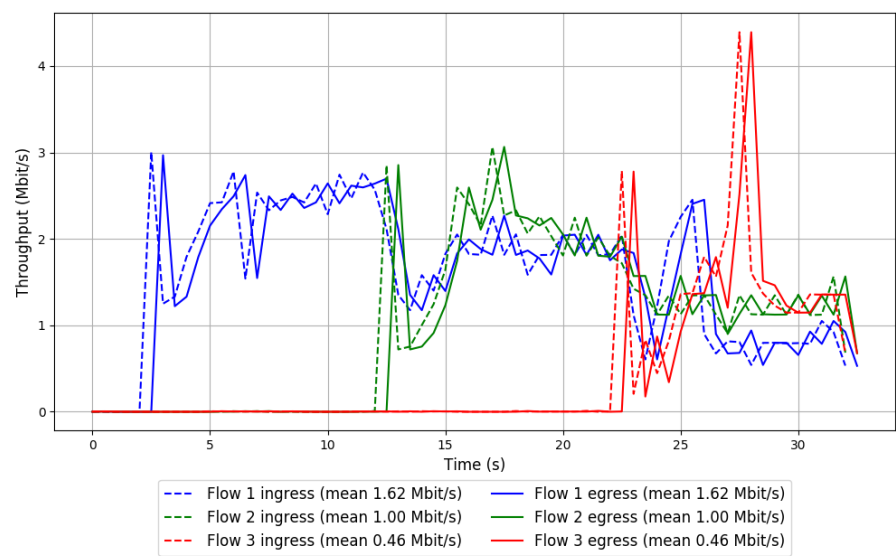


Run 5: Statistics of WebRTC media

Start at: 2018-07-10 21:51:27  
End at: 2018-07-10 21:51:57  
Local clock offset: -1.069 ms  
Remote clock offset: -4.658 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.06 Mbit/s  
95th percentile per-packet one-way delay: 14.968 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 1.62 Mbit/s  
95th percentile per-packet one-way delay: 14.636 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.00 Mbit/s  
95th percentile per-packet one-way delay: 14.761 ms  
Loss rate: 0.01%  
-- Flow 3:  
Average throughput: 0.46 Mbit/s  
95th percentile per-packet one-way delay: 16.347 ms  
Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link

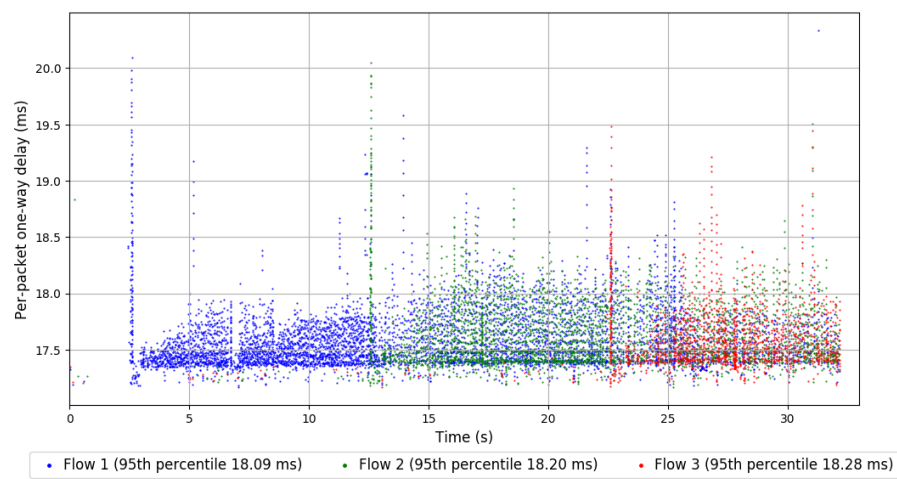
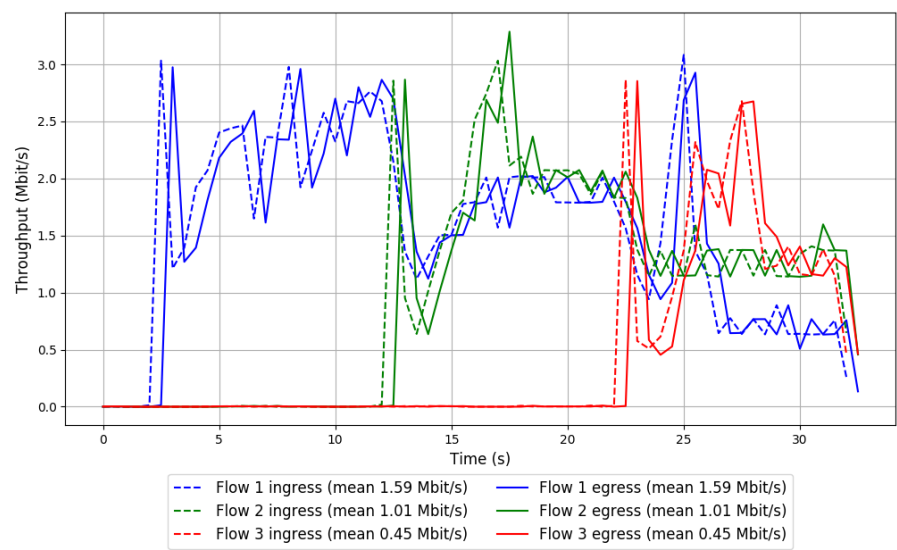


Run 6: Statistics of WebRTC media

Start at: 2018-07-10 22:11:48  
End at: 2018-07-10 22:12:18  
Local clock offset: 1.694 ms  
Remote clock offset: -4.235 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.04 Mbit/s  
95th percentile per-packet one-way delay: 18.155 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 18.094 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 1.01 Mbit/s  
95th percentile per-packet one-way delay: 18.199 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 0.45 Mbit/s  
95th percentile per-packet one-way delay: 18.277 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

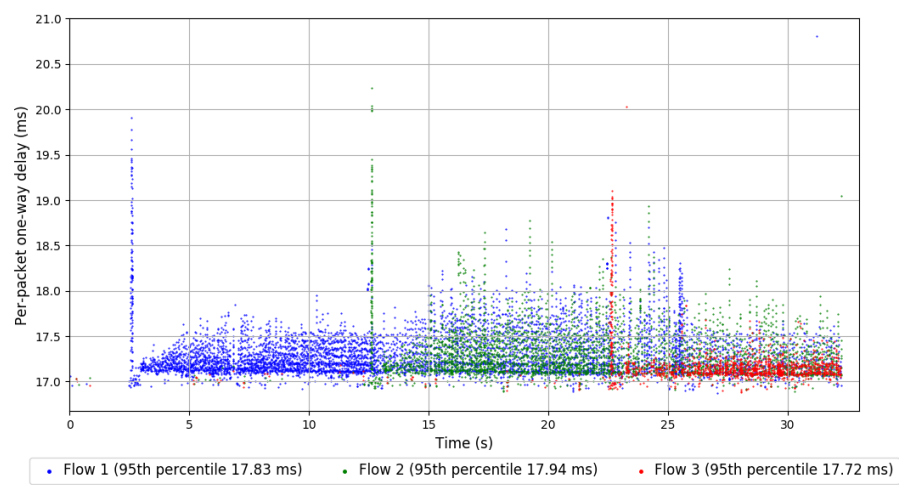
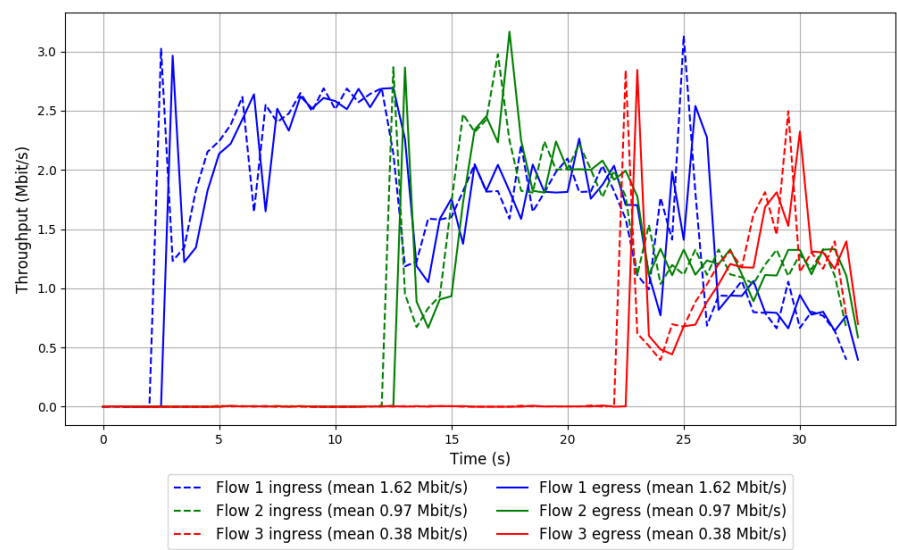


Run 7: Statistics of WebRTC media

Start at: 2018-07-10 22:32:07  
End at: 2018-07-10 22:32:37  
Local clock offset: 2.031 ms  
Remote clock offset: -5.847 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.97 Mbit/s  
95th percentile per-packet one-way delay: 17.874 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 1.62 Mbit/s  
95th percentile per-packet one-way delay: 17.834 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.97 Mbit/s  
95th percentile per-packet one-way delay: 17.938 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 0.38 Mbit/s  
95th percentile per-packet one-way delay: 17.720 ms  
Loss rate: 0.23%

Run 7: Report of WebRTC media — Data Link



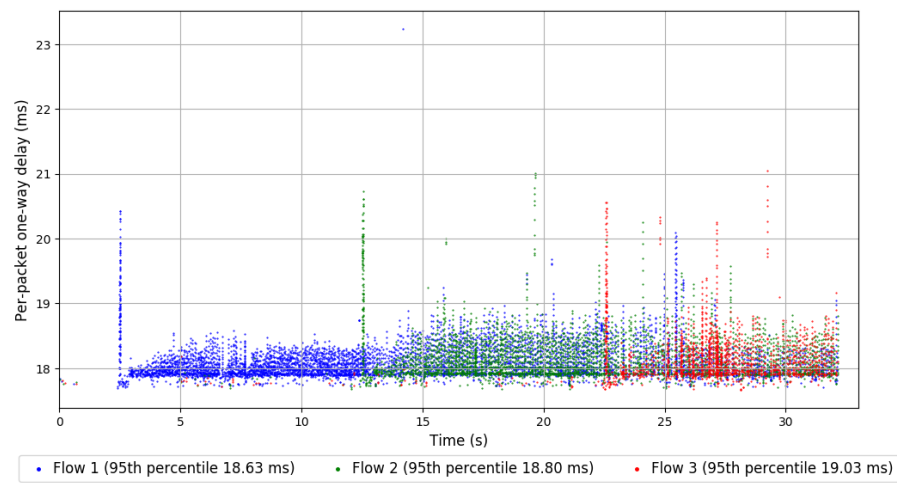
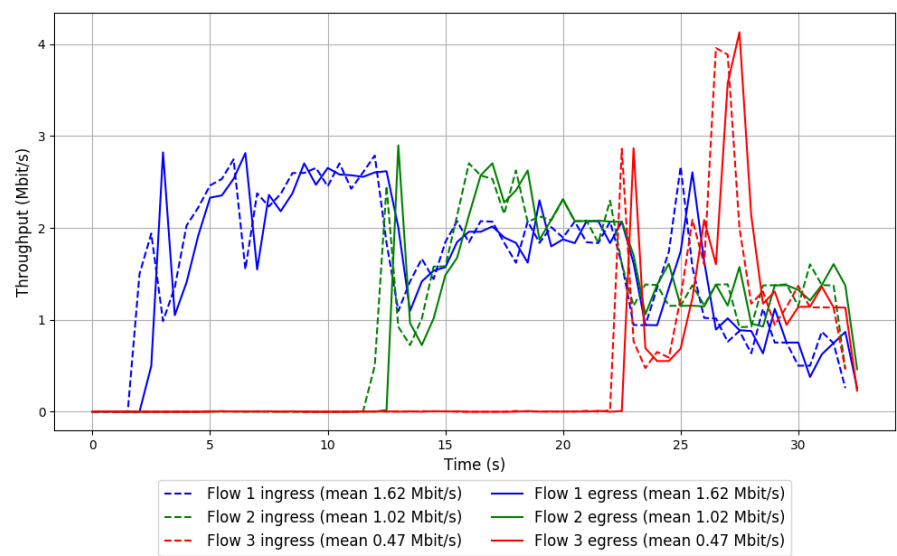
Run 8: Statistics of WebRTC media

Start at: 2018-07-10 22:52:38  
End at: 2018-07-10 22:53:08  
Local clock offset: 2.385 ms  
Remote clock offset: -7.754 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.10 Mbit/s  
95th percentile per-packet one-way delay: 18.733 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 1.62 Mbit/s  
95th percentile per-packet one-way delay: 18.627 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.02 Mbit/s  
95th percentile per-packet one-way delay: 18.797 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 19.031 ms  
Loss rate: 0.77%



Run 8: Report of WebRTC media — Data Link

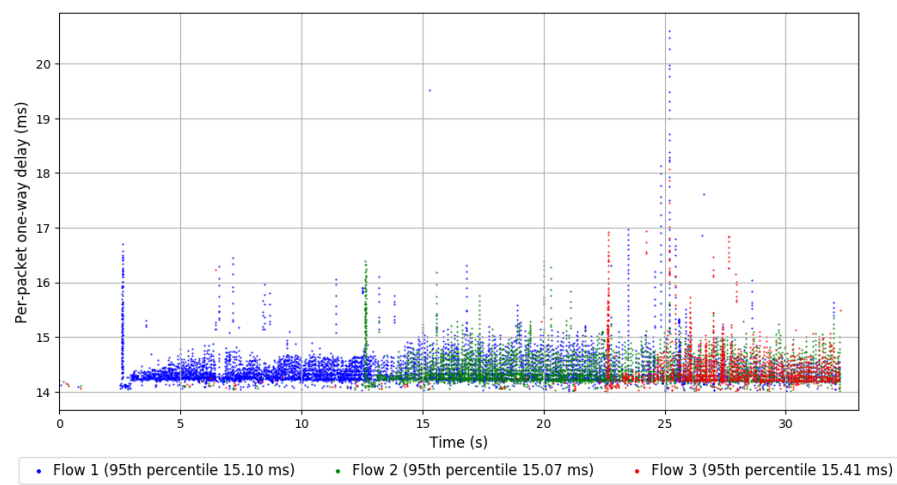
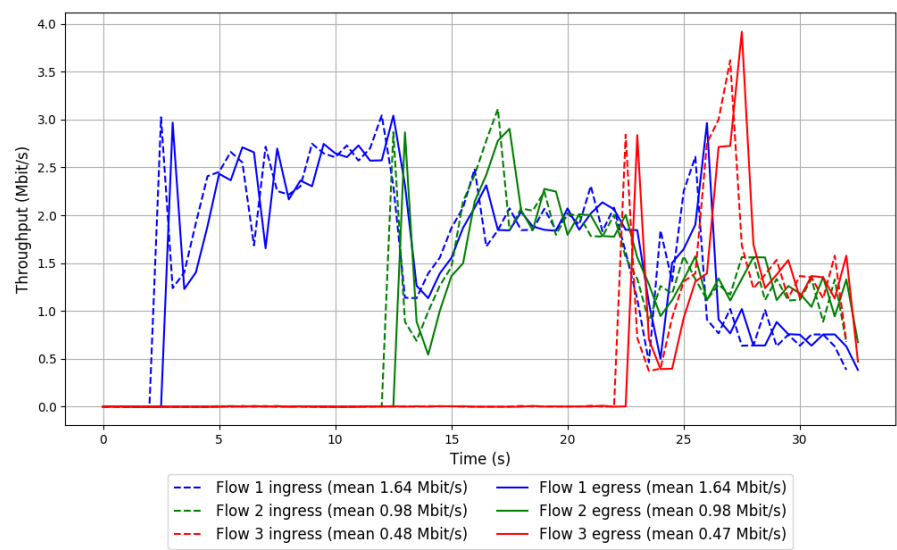


Run 9: Statistics of WebRTC media

Start at: 2018-07-10 23:12:45  
End at: 2018-07-10 23:13:15  
Local clock offset: -0.988 ms  
Remote clock offset: -11.472 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 3.09 Mbit/s  
95th percentile per-packet one-way delay: 15.115 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 1.64 Mbit/s  
95th percentile per-packet one-way delay: 15.104 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.98 Mbit/s  
95th percentile per-packet one-way delay: 15.066 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.47 Mbit/s  
95th percentile per-packet one-way delay: 15.411 ms  
Loss rate: 0.67%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-07-10 23:33:21  
End at: 2018-07-10 23:33:51  
Local clock offset: 1.126 ms  
Remote clock offset: -11.634 ms

# Below is generated by plot.py at 2018-07-11 00:08:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 17.717 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 1.59 Mbit/s  
95th percentile per-packet one-way delay: 17.527 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.33 Mbit/s  
95th percentile per-packet one-way delay: 17.759 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 0.43 Mbit/s  
95th percentile per-packet one-way delay: 18.219 ms  
Loss rate: 0.80%

Run 10: Report of WebRTC media — Data Link

