

## Pantheon Report

Generated at 2018-01-26 17:29:10 (UTC).

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

Repeated the test of 15 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).

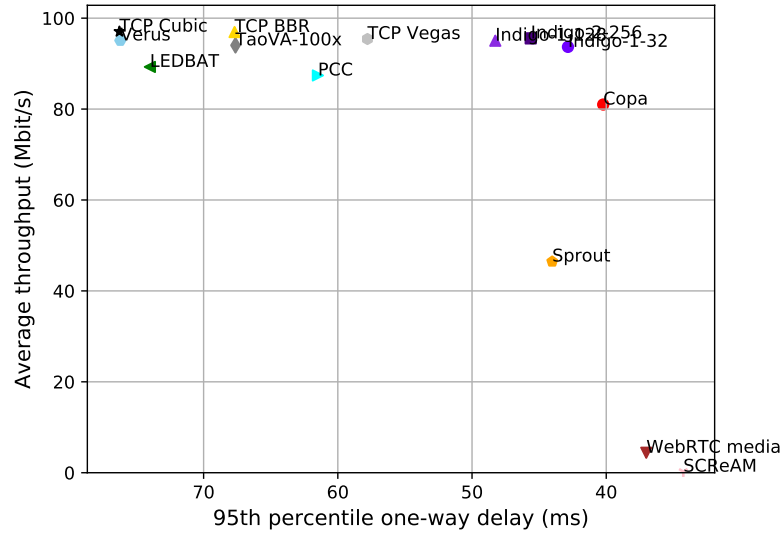
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo\_fast**).

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

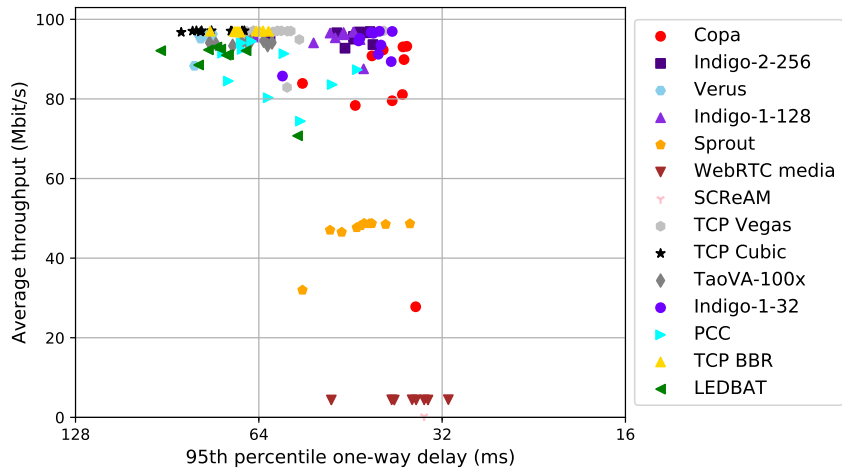
Git summary:

```
branch: master @ f23294ec38436c9f802847d477a41b7343ec76e6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
  M datagrump/sender.cc
third_party/fillp @ ec9585325218d5048c4d4152fa42240af54c6e67
third_party/genericCC @ 80b516c448f795fd6e9675f7177b69c622f07da8
third_party/indigo @ a9b2060d39e4da2e8987e893e3eca2a6c7cd0ab9
third_party/indigo-1-layer-128-unit @ 3ae9e4ef4230db7484501f82ce8b377695f2f66d
third_party/indigo-1-layer-32-unit @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/indigo-1-layer-32-unit-no-calib @ 1f3a7f75b41135ed5b540c0fd3505939528e2a5f
third_party/indigo-no-calib @ 7224f2202e8a044d8306fa0b983ad84360c53d89
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
  M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ fb1053193c2861da659ba9013db26744ccfcf993
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/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream @ c3370fd7bd17265a79aeb34e4016ad23f5965885
third_party/sourdough @ f1a14bffe749737437f61b1eae30b267cde681
third_party/sprout @ 6f2efe6e088d91066a9f023df375eee2665089ce
  M src/examples/cellsim.cc
  M src/examples/sproutbt2.cc
  M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
  M src/verus.hpp
  M tools/plot.py
third_party/vivace @ 423cbca3e8ea1d599e7b5cf725835e8a2b6bfac6
third_party/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

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



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





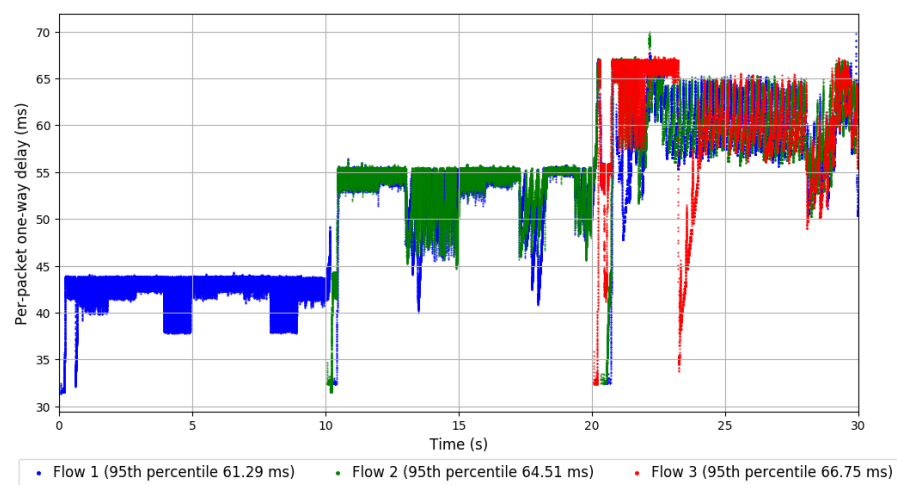
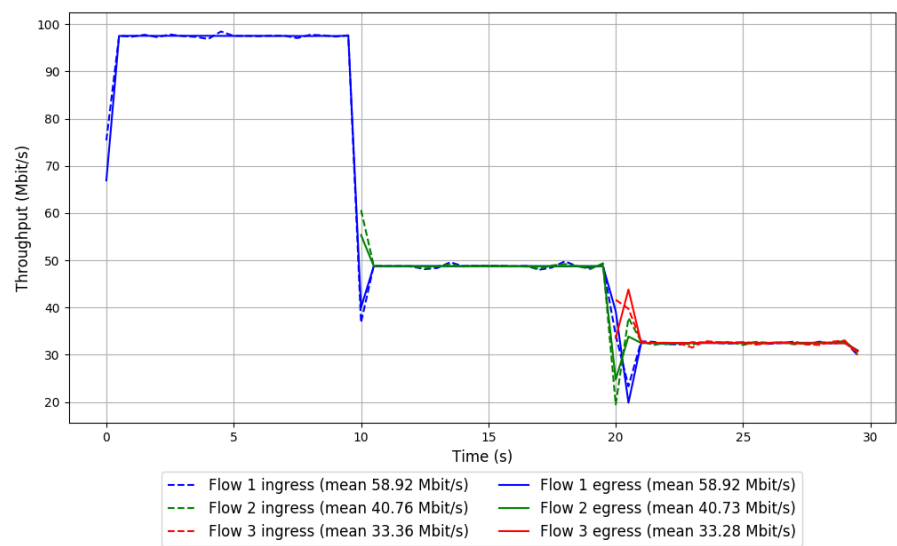
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	60.15	40.75	29.13	64.10	65.06	73.66	0.11	0.23	0.58
TCP Cubic	10	60.84	38.86	32.81	69.05	76.46	72.04	0.12	0.44	1.11
LEDBAT	9	51.04	43.57	28.26	551.94	67.46	72.46	0.13	0.28	0.80
PCC	10	59.32	33.49	17.62	60.93	52.38	56.13	0.09	0.16	0.37
QUIC Cubic	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
SCReAM	1	46.97	0.21	0.22	2568.19	34.23	34.23	0.00	0.00	0.00
WebRTC media	8	2.35	1.44	0.63	36.94	37.03	37.28	0.18	0.15	0.37
Sprout	10	23.43	23.27	22.84	43.55	44.05	44.85	0.11	0.15	0.33
TaoVA-100x	10	58.21	41.14	33.18	65.54	63.20	63.39	0.09	0.22	0.66
TCP Vegas	10	56.59	38.41	39.87	54.33	56.28	48.78	0.07	0.12	0.36
Verus	10	57.47	41.88	29.53	71.11	68.14	72.79	0.11	0.25	0.68
Copa	10	50.02	35.35	29.20	40.12	40.27	39.59	0.05	0.13	0.34
Indigo-2-256	10	60.01	35.37	36.95	45.62	44.58	46.15	0.06	0.13	0.37
Indigo-1-32	10	57.05	40.34	30.26	41.96	42.64	42.84	0.07	0.14	0.34
Indigo-1-128	10	60.28	35.50	34.40	51.35	46.37	44.20	0.06	0.13	0.33

Run 1: Statistics of TCP BBR

Start at: 2018-01-26 10:34:59  
End at: 2018-01-26 10:35:29  
Local clock offset: 1.036 ms  
Remote clock offset: -19.315 ms

# Below is generated by plot.py at 2018-01-26 17:07:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.06 Mbit/s  
95th percentile per-packet one-way delay: 64.630 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 58.92 Mbit/s  
95th percentile per-packet one-way delay: 61.293 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 40.73 Mbit/s  
95th percentile per-packet one-way delay: 64.509 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 33.28 Mbit/s  
95th percentile per-packet one-way delay: 66.748 ms  
Loss rate: 0.51%

Run 1: Report of TCP BBR — Data Link

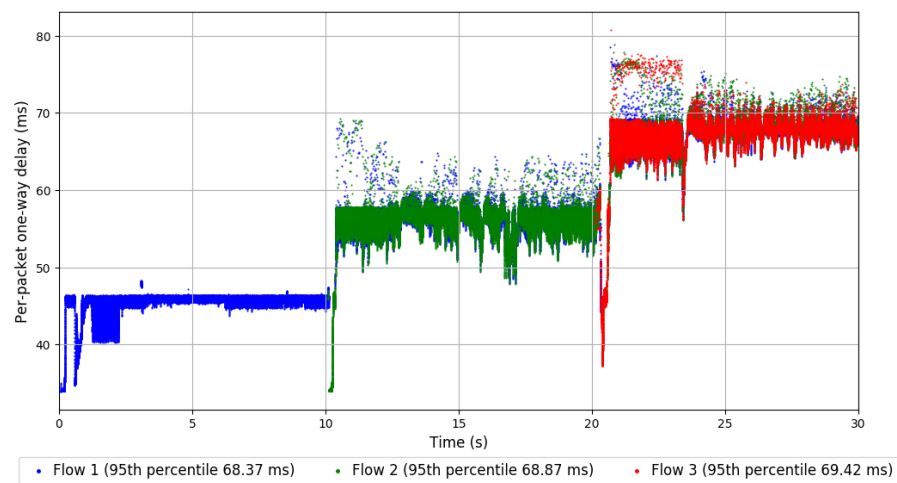
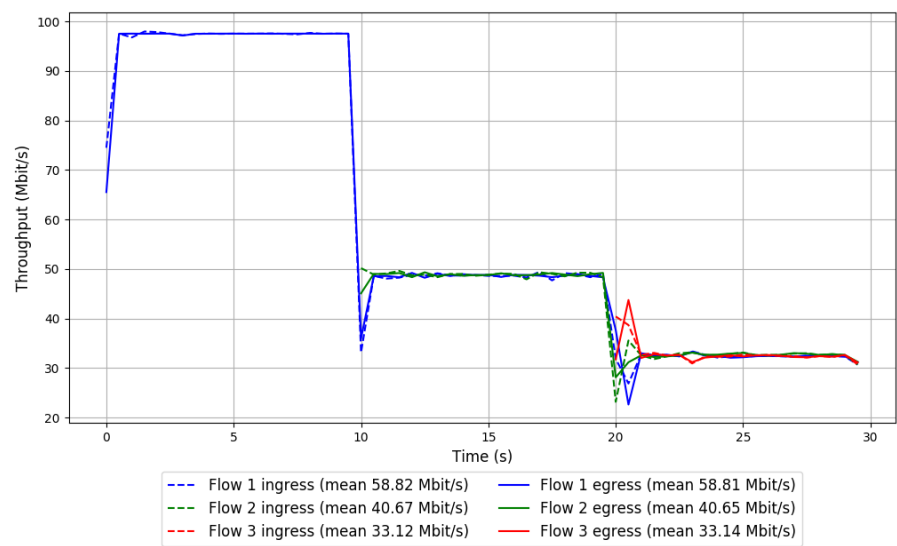


Run 2: Statistics of TCP BBR

Start at: 2018-01-26 10:53:55  
End at: 2018-01-26 10:54:25  
Local clock offset: 3.939 ms  
Remote clock offset: -19.11 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.81 Mbit/s  
95th percentile per-packet one-way delay: 68.751 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 58.81 Mbit/s  
95th percentile per-packet one-way delay: 68.374 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 40.65 Mbit/s  
95th percentile per-packet one-way delay: 68.866 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 33.14 Mbit/s  
95th percentile per-packet one-way delay: 69.424 ms  
Loss rate: 0.60%

Run 2: Report of TCP BBR — Data Link

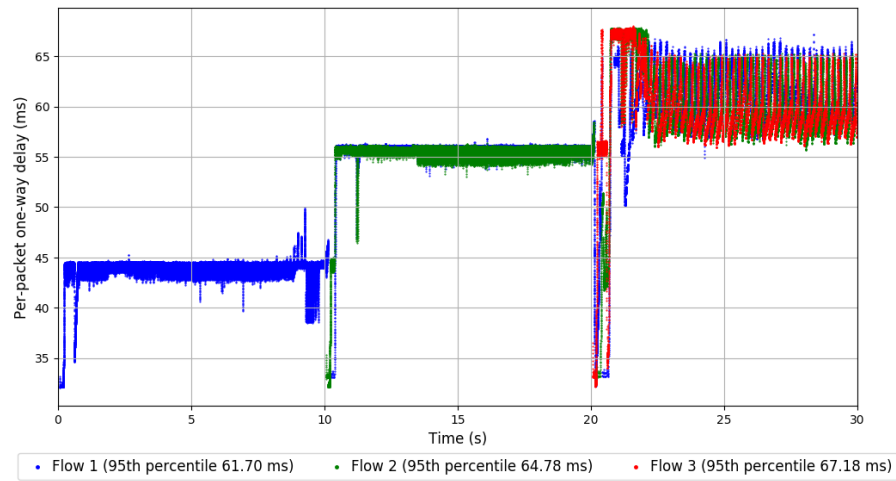
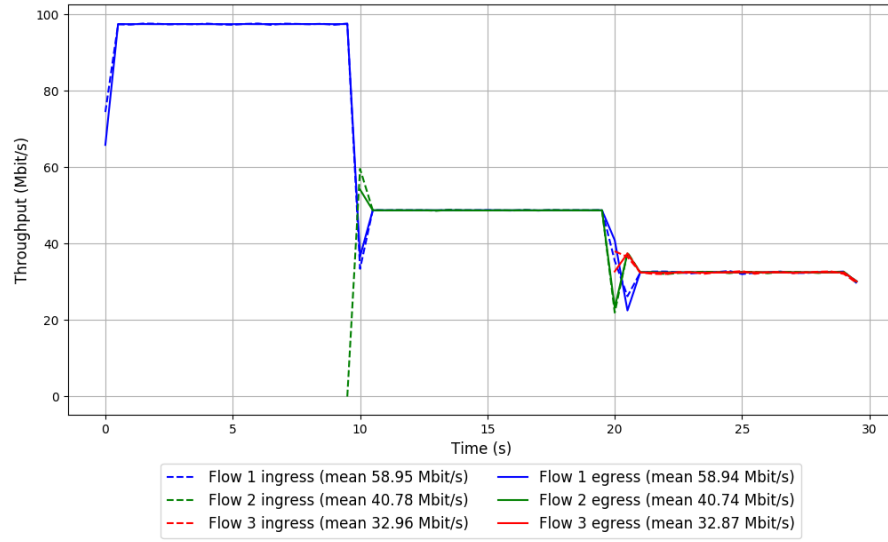


Run 3: Statistics of TCP BBR

Start at: 2018-01-26 11:12:45  
End at: 2018-01-26 11:13:15  
Local clock offset: 2.845 ms  
Remote clock offset: -16.57 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.97 Mbit/s  
95th percentile per-packet one-way delay: 63.791 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 58.94 Mbit/s  
95th percentile per-packet one-way delay: 61.698 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 40.74 Mbit/s  
95th percentile per-packet one-way delay: 64.781 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 32.87 Mbit/s  
95th percentile per-packet one-way delay: 67.178 ms  
Loss rate: 0.51%

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



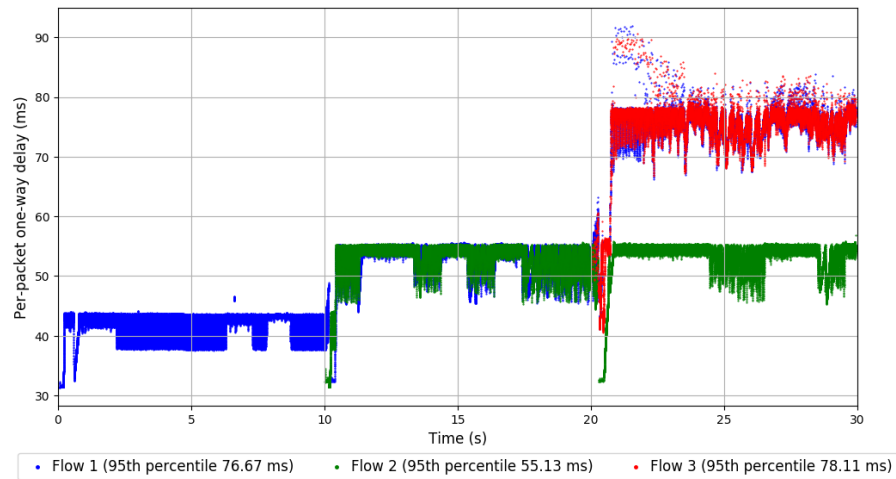
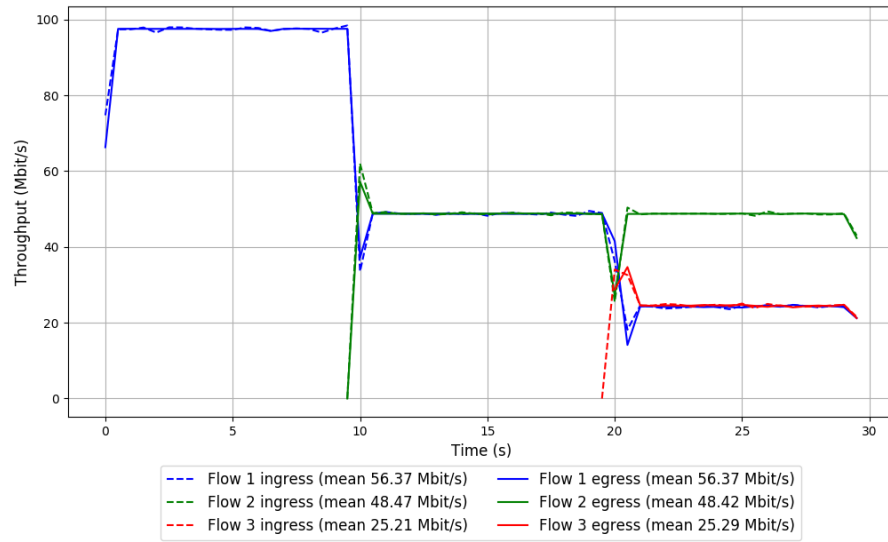
Run 4: Statistics of TCP BBR

Start at: 2018-01-26 11:31:38  
End at: 2018-01-26 11:32:08  
Local clock offset: 2.732 ms  
Remote clock offset: -14.415 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.03 Mbit/s  
95th percentile per-packet one-way delay: 76.928 ms  
Loss rate: 0.24%  
-- Flow 1:  
Average throughput: 56.37 Mbit/s  
95th percentile per-packet one-way delay: 76.667 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 48.42 Mbit/s  
95th percentile per-packet one-way delay: 55.126 ms  
Loss rate: 0.30%  
-- Flow 3:  
Average throughput: 25.29 Mbit/s  
95th percentile per-packet one-way delay: 78.109 ms  
Loss rate: 0.80%



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

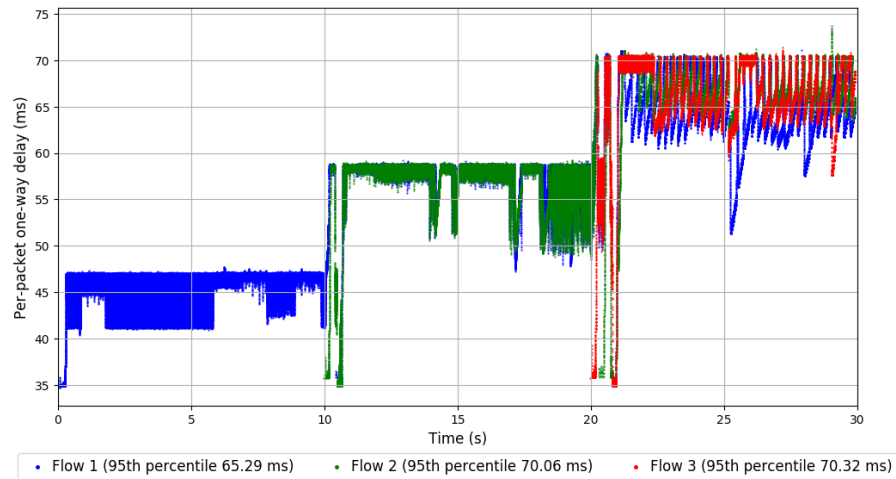
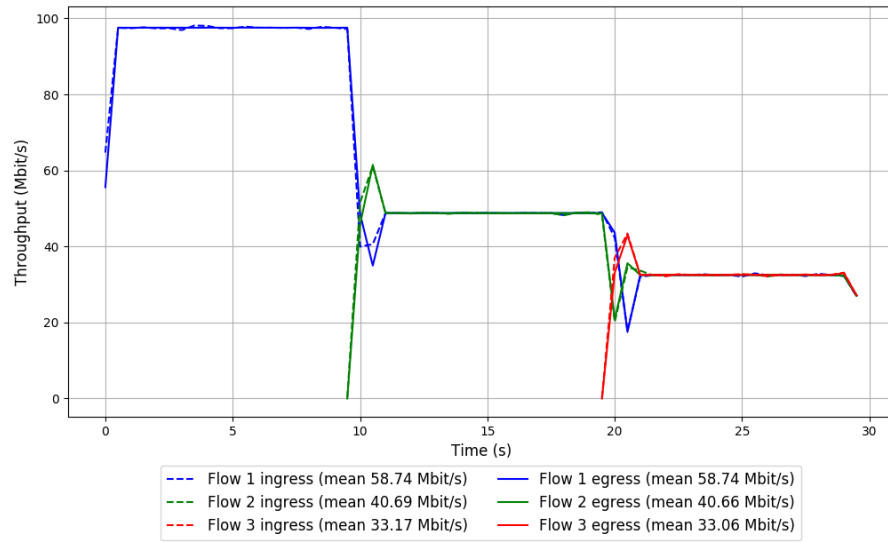


Run 5: Statistics of TCP BBR

Start at: 2018-01-26 11:50:46  
End at: 2018-01-26 11:51:16  
Local clock offset: 2.164 ms  
Remote clock offset: -13.303 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.85 Mbit/s  
95th percentile per-packet one-way delay: 69.747 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 58.74 Mbit/s  
95th percentile per-packet one-way delay: 65.288 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 40.66 Mbit/s  
95th percentile per-packet one-way delay: 70.057 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 33.06 Mbit/s  
95th percentile per-packet one-way delay: 70.317 ms  
Loss rate: 0.64%

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

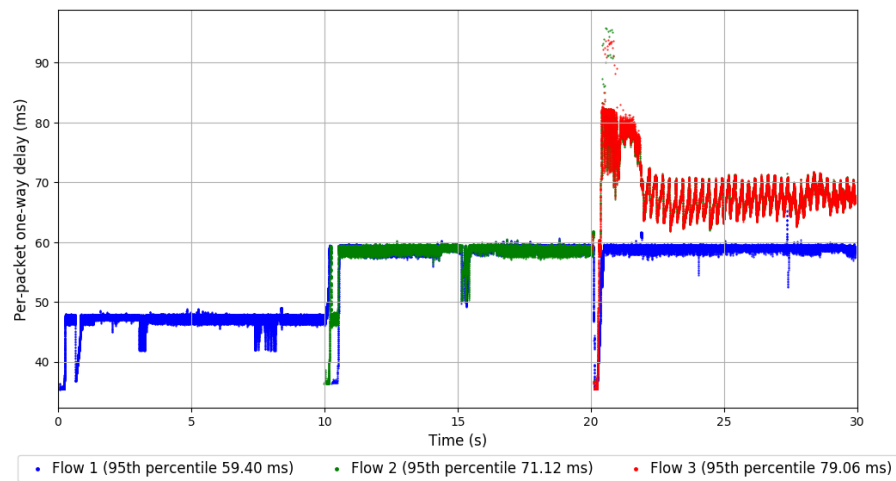
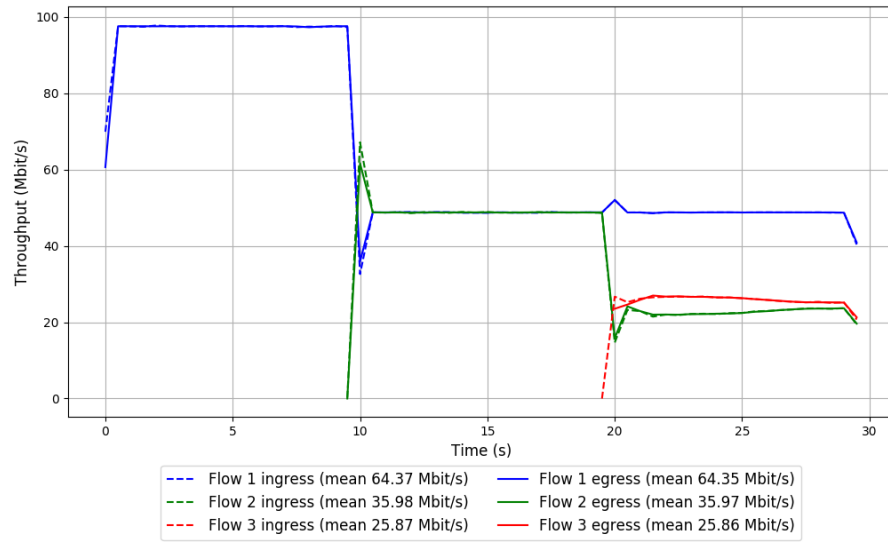


Run 6: Statistics of TCP BBR

Start at: 2018-01-26 12:09:50  
End at: 2018-01-26 12:10:20  
Local clock offset: 2.365 ms  
Remote clock offset: -12.565 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.90 Mbit/s  
95th percentile per-packet one-way delay: 69.337 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 64.35 Mbit/s  
95th percentile per-packet one-way delay: 59.397 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 35.97 Mbit/s  
95th percentile per-packet one-way delay: 71.118 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 25.86 Mbit/s  
95th percentile per-packet one-way delay: 79.061 ms  
Loss rate: 0.56%

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

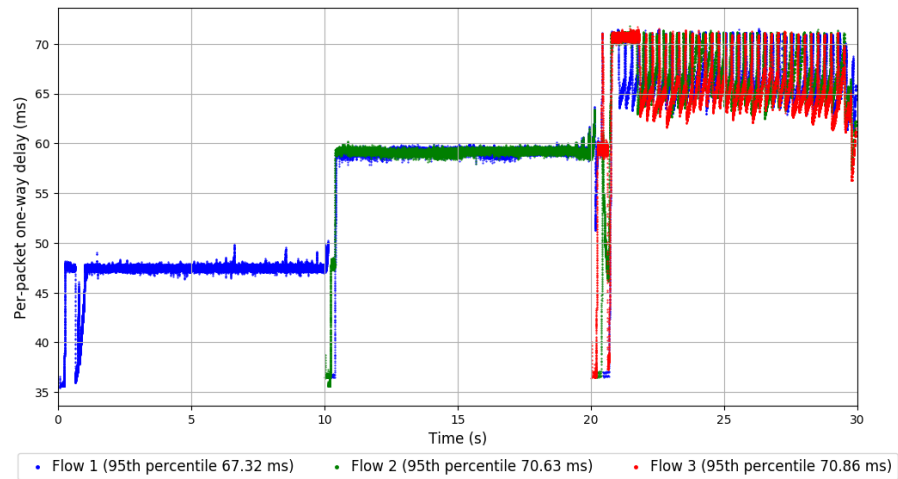
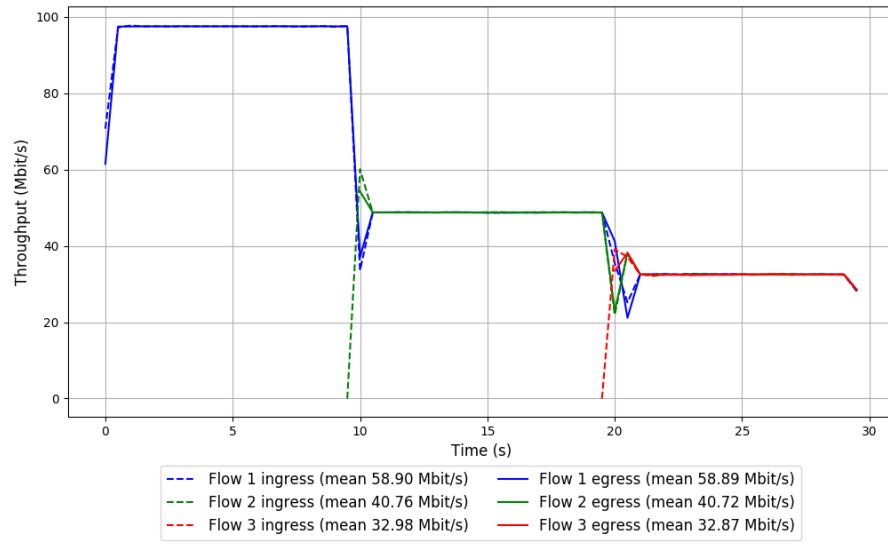


Run 7: Statistics of TCP BBR

Start at: 2018-01-26 12:29:12  
End at: 2018-01-26 12:29:42  
Local clock offset: 1.369 ms  
Remote clock offset: -12.106 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.93 Mbit/s  
95th percentile per-packet one-way delay: 70.214 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 58.89 Mbit/s  
95th percentile per-packet one-way delay: 67.317 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.72 Mbit/s  
95th percentile per-packet one-way delay: 70.626 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 32.87 Mbit/s  
95th percentile per-packet one-way delay: 70.862 ms  
Loss rate: 0.62%

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



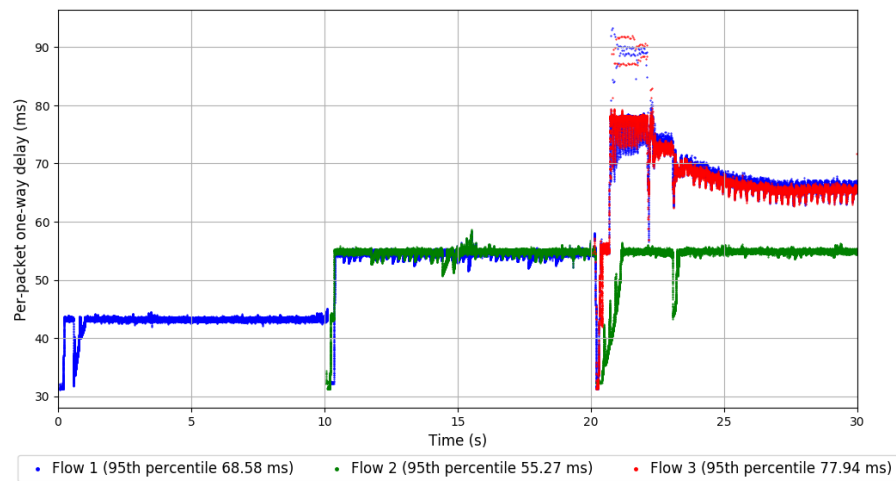
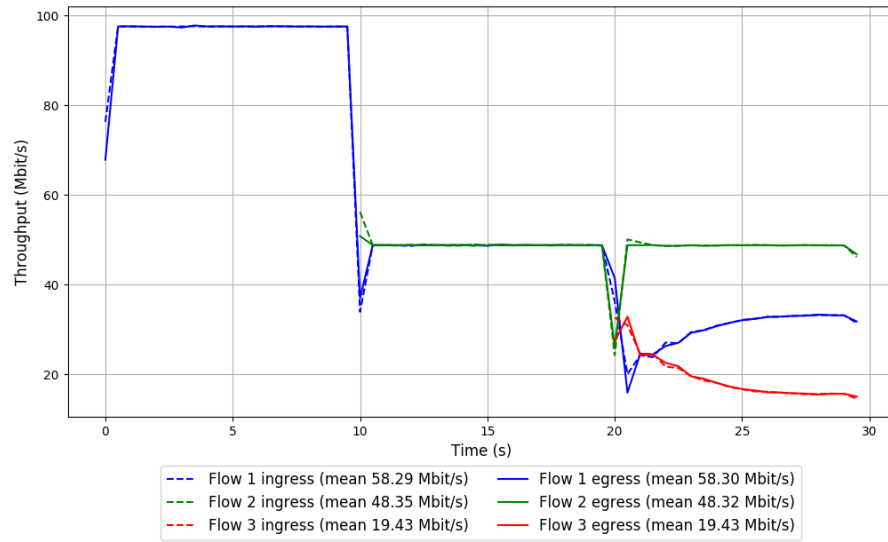
Run 8: Statistics of TCP BBR

Start at: 2018-01-26 12:48:56  
End at: 2018-01-26 12:49:26  
Local clock offset: 1.378 ms  
Remote clock offset: -11.734 ms

# Below is generated by plot.py at 2018-01-26 17:07:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.89 Mbit/s  
95th percentile per-packet one-way delay: 68.849 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 58.30 Mbit/s  
95th percentile per-packet one-way delay: 68.578 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 48.32 Mbit/s  
95th percentile per-packet one-way delay: 55.267 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 19.43 Mbit/s  
95th percentile per-packet one-way delay: 77.943 ms  
Loss rate: 0.43%



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

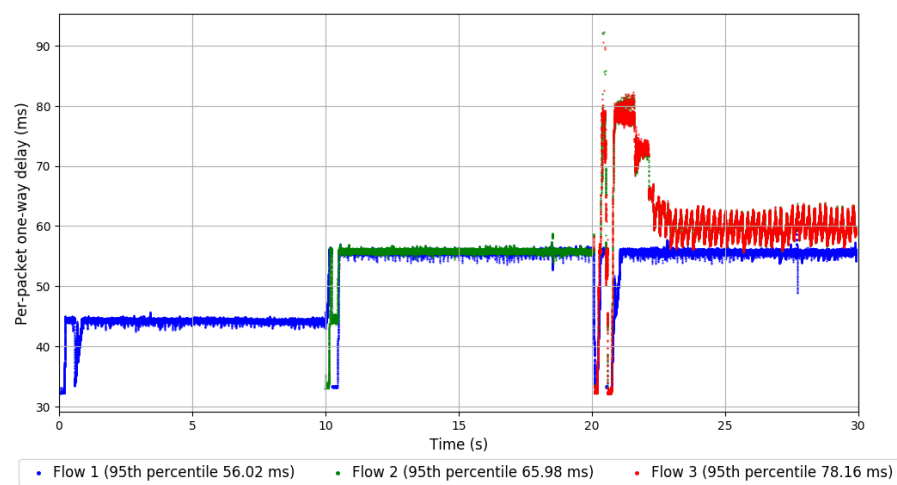
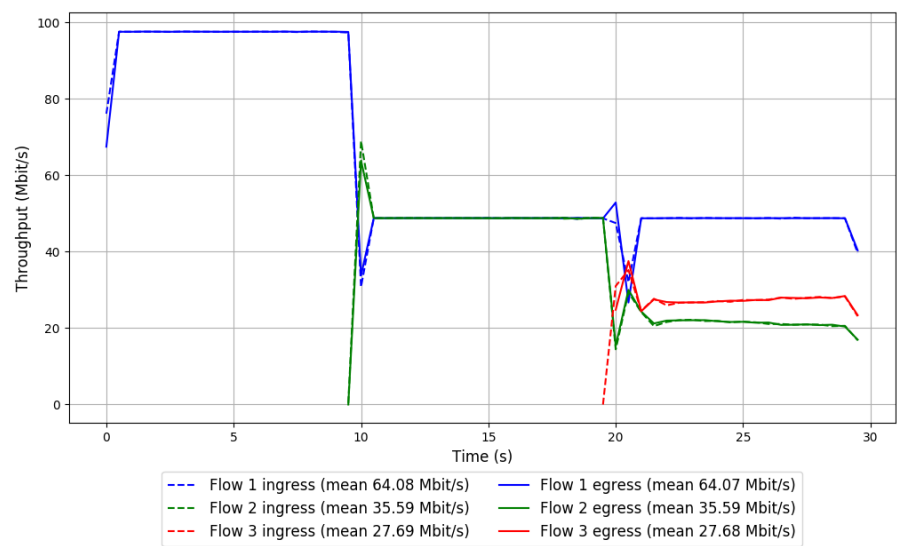


Run 9: Statistics of TCP BBR

Start at: 2018-01-26 13:08:37  
End at: 2018-01-26 13:09:07  
Local clock offset: 3.33 ms  
Remote clock offset: -10.087 ms

# Below is generated by plot.py at 2018-01-26 17:09:07  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.99 Mbit/s  
95th percentile per-packet one-way delay: 61.708 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 64.07 Mbit/s  
95th percentile per-packet one-way delay: 56.018 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 35.59 Mbit/s  
95th percentile per-packet one-way delay: 65.983 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 27.68 Mbit/s  
95th percentile per-packet one-way delay: 78.161 ms  
Loss rate: 0.56%

Run 9: Report of TCP BBR — Data Link

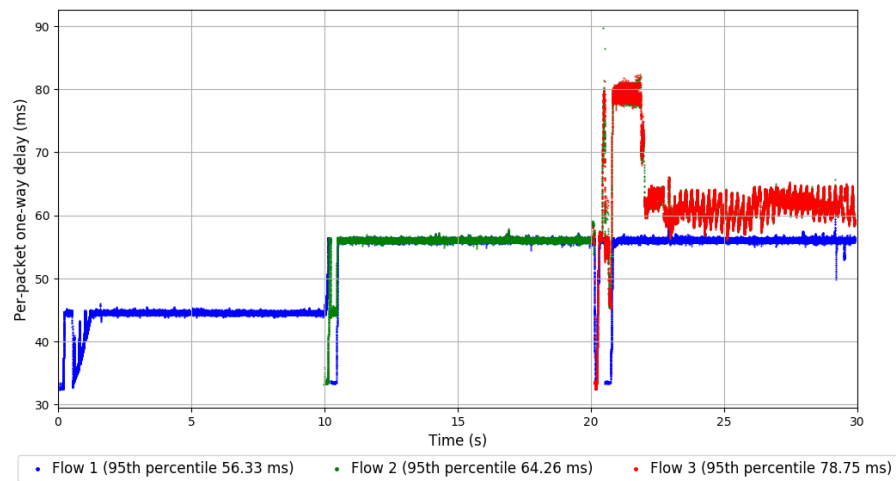
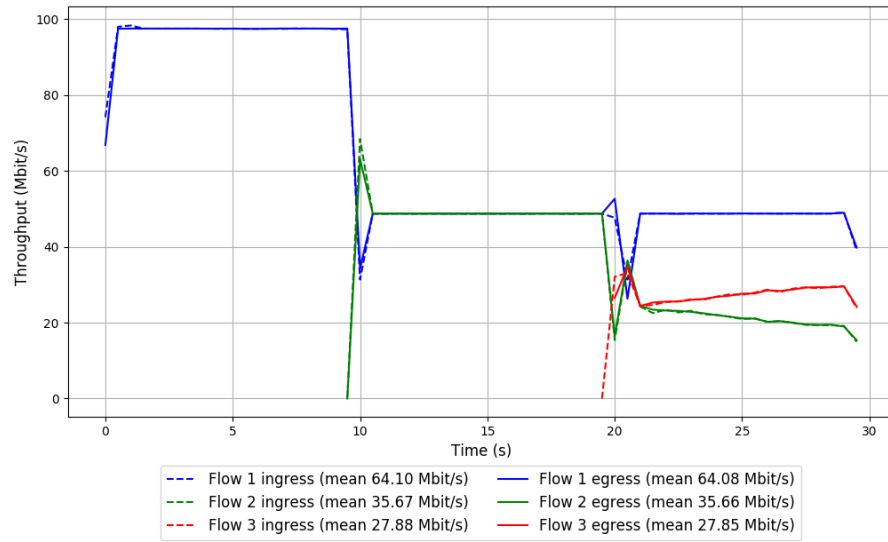


Run 10: Statistics of TCP BBR

Start at: 2018-01-26 13:28:18  
End at: 2018-01-26 13:28:48  
Local clock offset: 2.961 ms  
Remote clock offset: -12.225 ms

# Below is generated by plot.py at 2018-01-26 17:09:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.09 Mbit/s  
95th percentile per-packet one-way delay: 62.980 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 64.08 Mbit/s  
95th percentile per-packet one-way delay: 56.332 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 35.66 Mbit/s  
95th percentile per-packet one-way delay: 64.261 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 27.85 Mbit/s  
95th percentile per-packet one-way delay: 78.755 ms  
Loss rate: 0.58%

# Run 10: Report of TCP BBR — Data Link

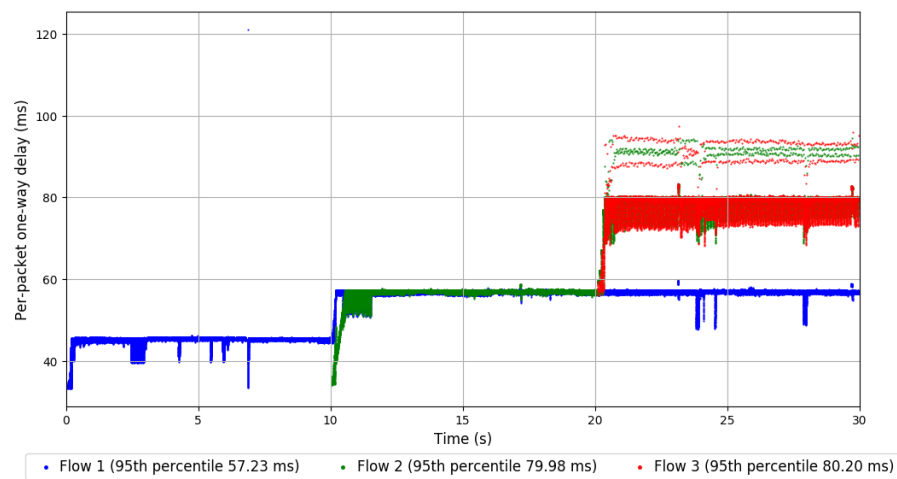
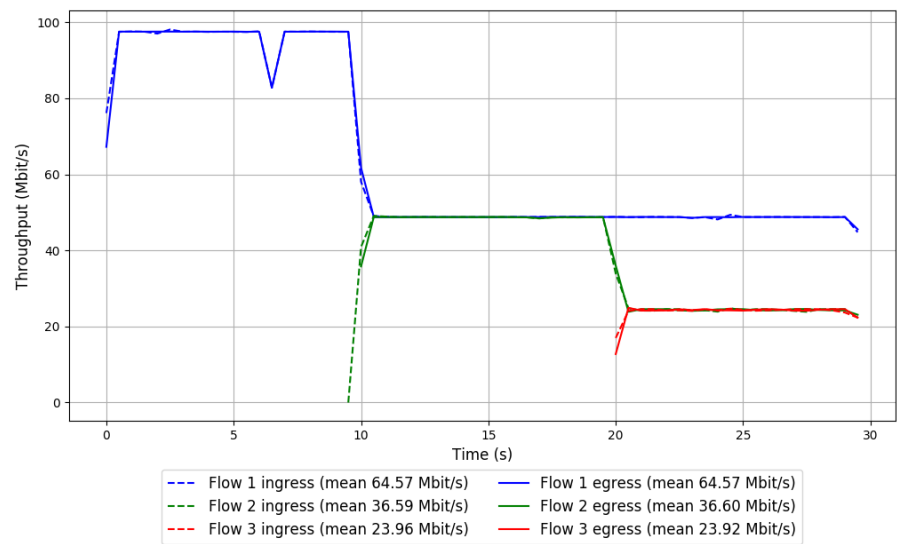


Run 1: Statistics of TCP Cubic

Start at: 2018-01-26 10:42:14  
End at: 2018-01-26 10:42:44  
Local clock offset: 2.009 ms  
Remote clock offset: -20.243 ms

# Below is generated by plot.py at 2018-01-26 17:09:08  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.85 Mbit/s  
95th percentile per-packet one-way delay: 79.800 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 64.57 Mbit/s  
95th percentile per-packet one-way delay: 57.232 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 36.60 Mbit/s  
95th percentile per-packet one-way delay: 79.981 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 23.92 Mbit/s  
95th percentile per-packet one-way delay: 80.200 ms  
Loss rate: 0.68%

Run 1: Report of TCP Cubic — Data Link



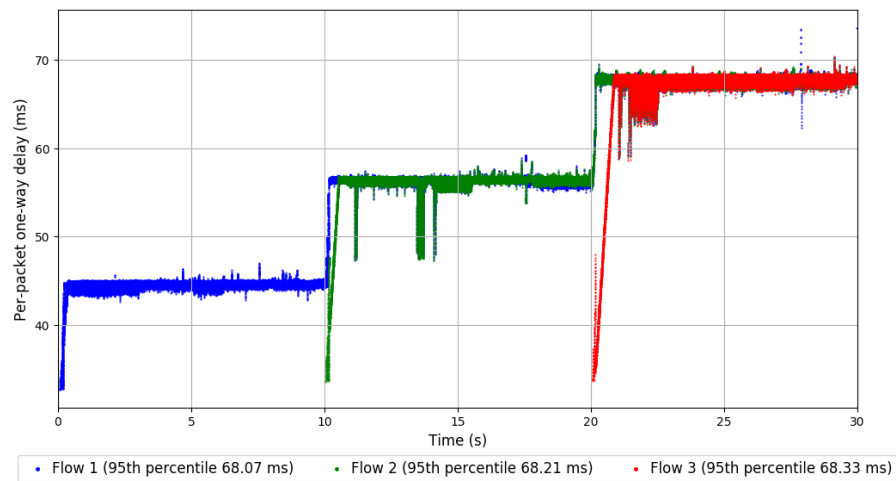
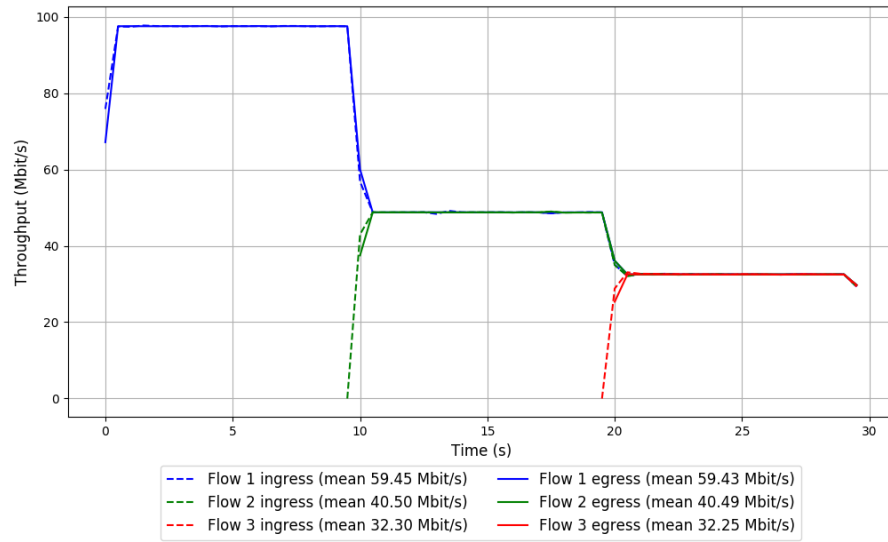
Run 2: Statistics of TCP Cubic

Start at: 2018-01-26 11:01:04  
End at: 2018-01-26 11:01:34  
Local clock offset: 3.531 ms  
Remote clock offset: -17.378 ms

# Below is generated by plot.py at 2018-01-26 17:09:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.11 Mbit/s  
95th percentile per-packet one-way delay: 68.185 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 59.43 Mbit/s  
95th percentile per-packet one-way delay: 68.069 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 40.49 Mbit/s  
95th percentile per-packet one-way delay: 68.208 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 32.25 Mbit/s  
95th percentile per-packet one-way delay: 68.330 ms  
Loss rate: 0.62%



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

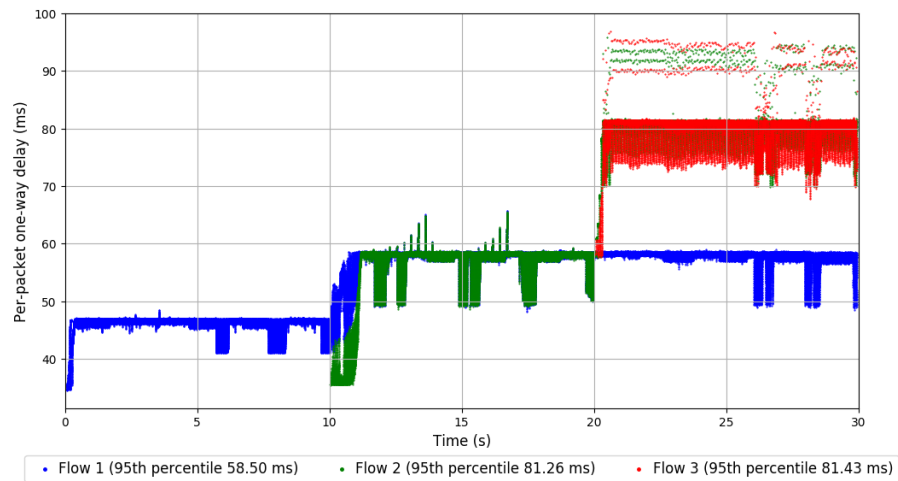
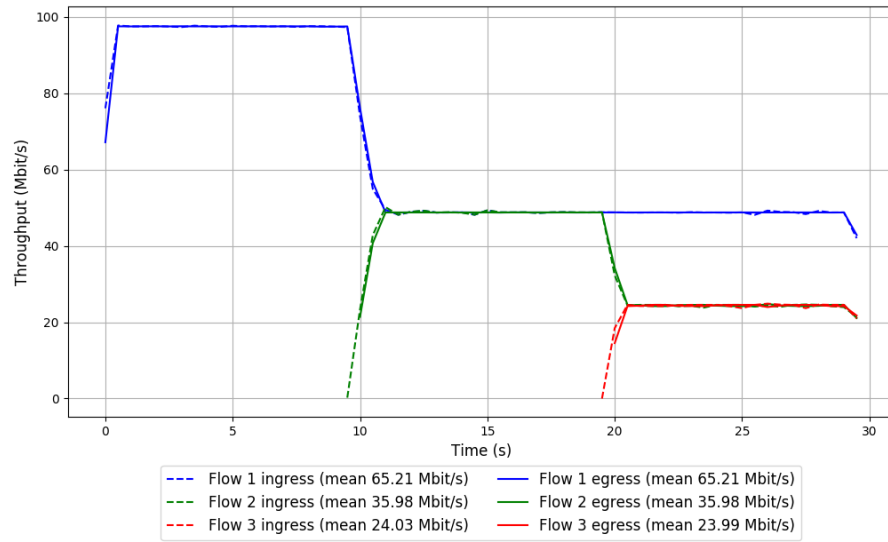


Run 3: Statistics of TCP Cubic

Start at: 2018-01-26 11:19:58  
End at: 2018-01-26 11:20:28  
Local clock offset: 5.231 ms  
Remote clock offset: -16.224 ms

# Below is generated by plot.py at 2018-01-26 17:09:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.13 Mbit/s  
95th percentile per-packet one-way delay: 81.030 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 65.21 Mbit/s  
95th percentile per-packet one-way delay: 58.504 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 35.98 Mbit/s  
95th percentile per-packet one-way delay: 81.264 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 23.99 Mbit/s  
95th percentile per-packet one-way delay: 81.432 ms  
Loss rate: 0.77%

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

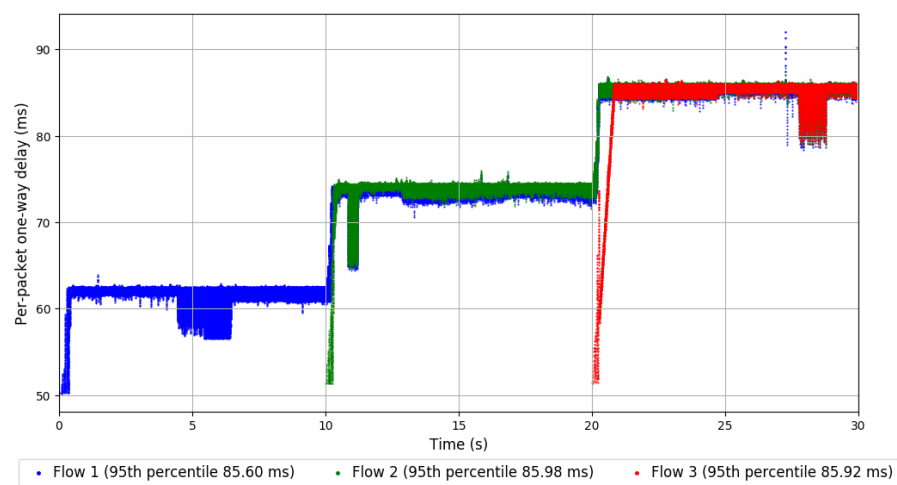
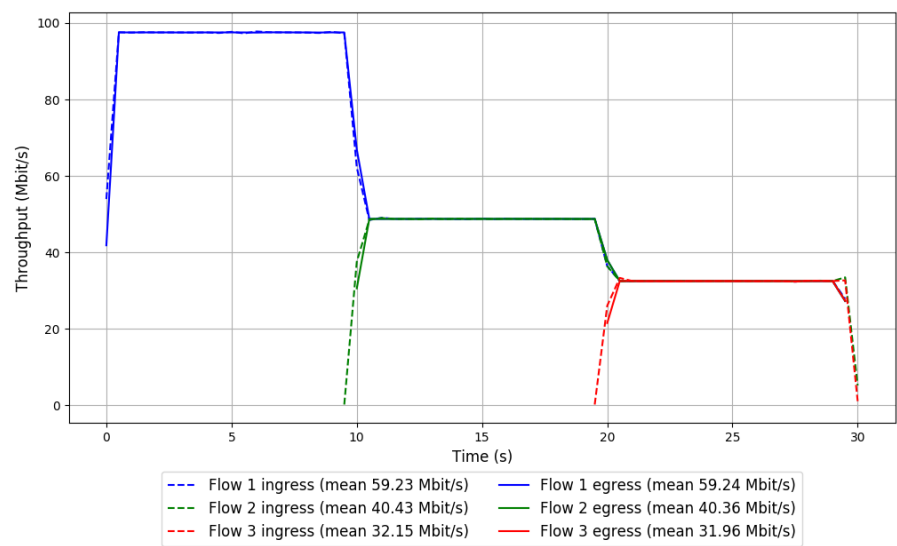


Run 4: Statistics of TCP Cubic

Start at: 2018-01-26 11:38:54  
End at: 2018-01-26 11:39:24  
Local clock offset: 4.341 ms  
Remote clock offset: -15.86 ms

# Below is generated by plot.py at 2018-01-26 17:09:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.75 Mbit/s  
95th percentile per-packet one-way delay: 85.824 ms  
Loss rate: 0.60%  
-- Flow 1:  
Average throughput: 59.24 Mbit/s  
95th percentile per-packet one-way delay: 85.596 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 40.36 Mbit/s  
95th percentile per-packet one-way delay: 85.985 ms  
Loss rate: 1.04%  
-- Flow 3:  
Average throughput: 31.96 Mbit/s  
95th percentile per-packet one-way delay: 85.916 ms  
Loss rate: 1.87%

Run 4: Report of TCP Cubic — Data Link

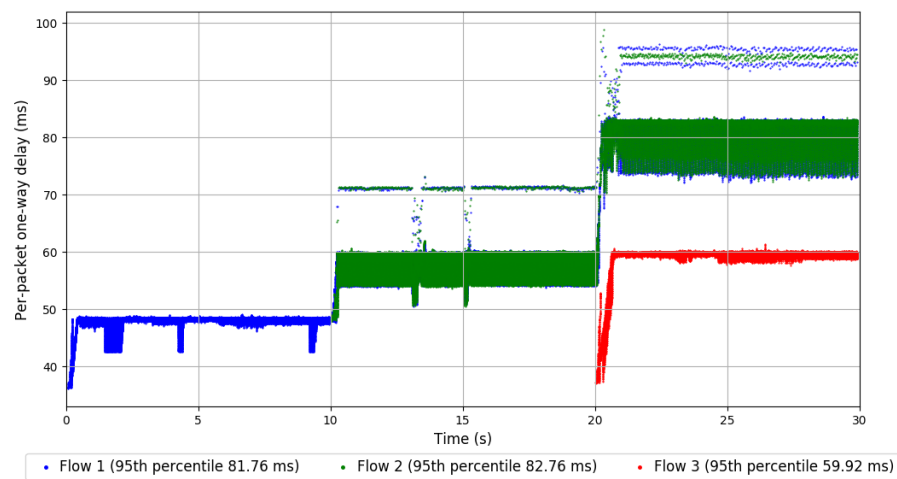
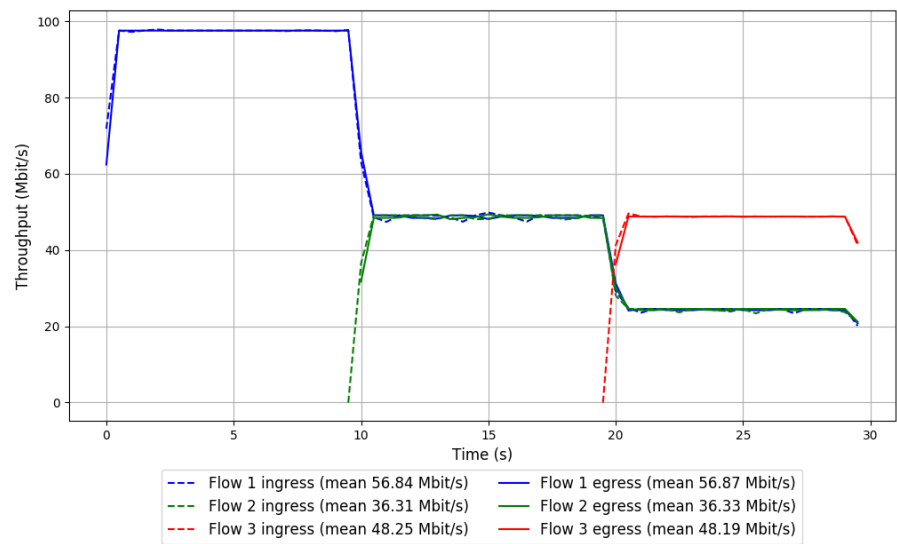


Run 5: Statistics of TCP Cubic

Start at: 2018-01-26 11:58:05  
End at: 2018-01-26 11:58:35  
Local clock offset: 3.536 ms  
Remote clock offset: -12.524 ms

# Below is generated by plot.py at 2018-01-26 17:09:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.05 Mbit/s  
95th percentile per-packet one-way delay: 82.216 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 56.87 Mbit/s  
95th percentile per-packet one-way delay: 81.762 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 36.33 Mbit/s  
95th percentile per-packet one-way delay: 82.762 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 48.19 Mbit/s  
95th percentile per-packet one-way delay: 59.919 ms  
Loss rate: 0.54%

Run 5: Report of TCP Cubic — Data Link



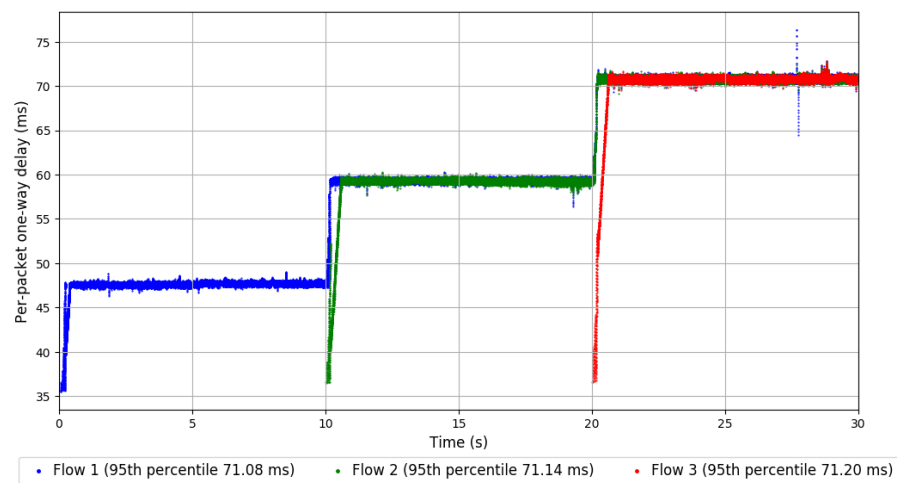
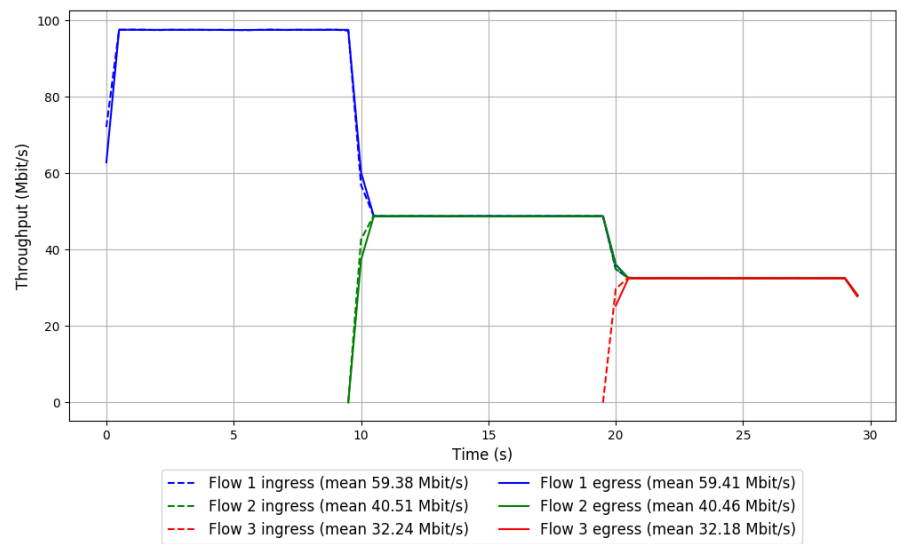
Run 6: Statistics of TCP Cubic

Start at: 2018-01-26 12:17:15  
End at: 2018-01-26 12:17:45  
Local clock offset: 2.689 ms  
Remote clock offset: -11.959 ms

# Below is generated by plot.py at 2018-01-26 17:09:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.06 Mbit/s  
95th percentile per-packet one-way delay: 71.132 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 59.41 Mbit/s  
95th percentile per-packet one-way delay: 71.081 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 40.46 Mbit/s  
95th percentile per-packet one-way delay: 71.142 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 32.18 Mbit/s  
95th percentile per-packet one-way delay: 71.197 ms  
Loss rate: 0.65%



Run 6: Report of TCP Cubic — Data Link

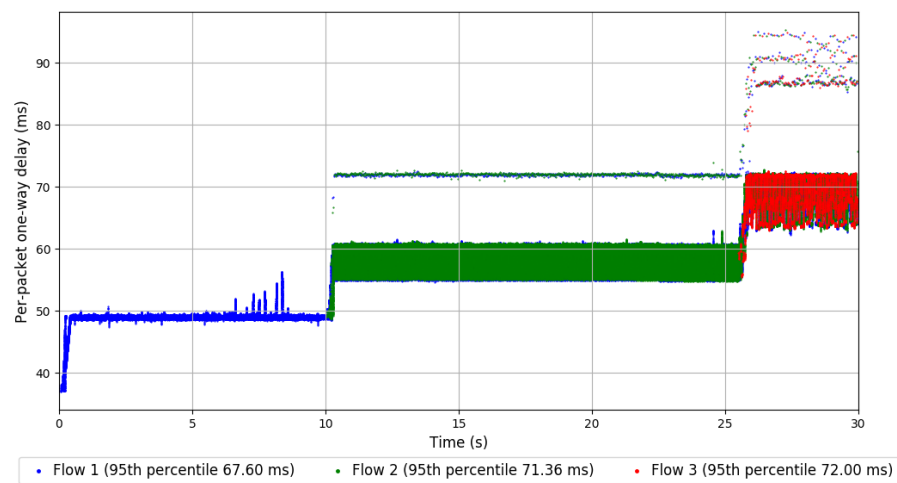
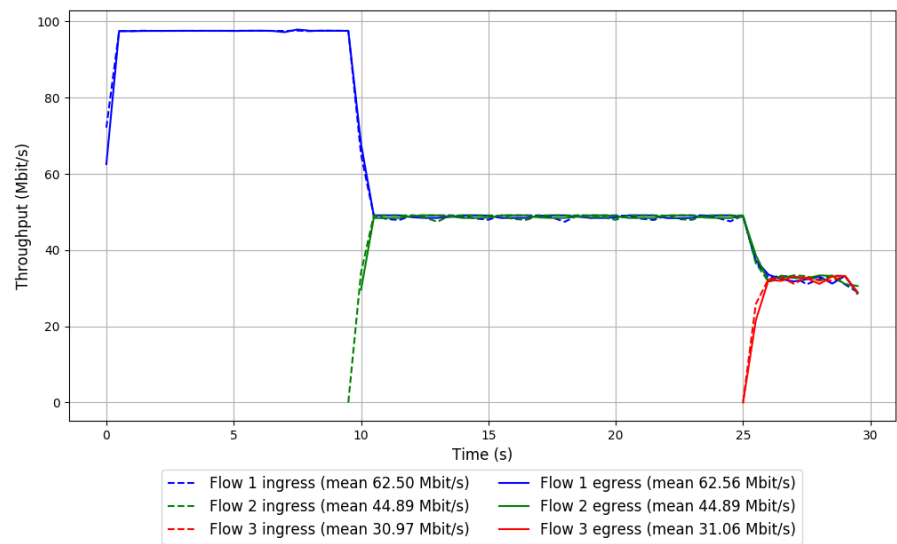


Run 7: Statistics of TCP Cubic

Start at: 2018-01-26 12:36:42  
End at: 2018-01-26 12:37:12  
Local clock offset: 3.881 ms  
Remote clock offset: -10.81 ms

# Below is generated by plot.py at 2018-01-26 17:10:36  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.04 Mbit/s  
95th percentile per-packet one-way delay: 70.903 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 62.56 Mbit/s  
95th percentile per-packet one-way delay: 67.597 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 44.89 Mbit/s  
95th percentile per-packet one-way delay: 71.358 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 31.06 Mbit/s  
95th percentile per-packet one-way delay: 71.999 ms  
Loss rate: 1.31%

Run 7: Report of TCP Cubic — Data Link

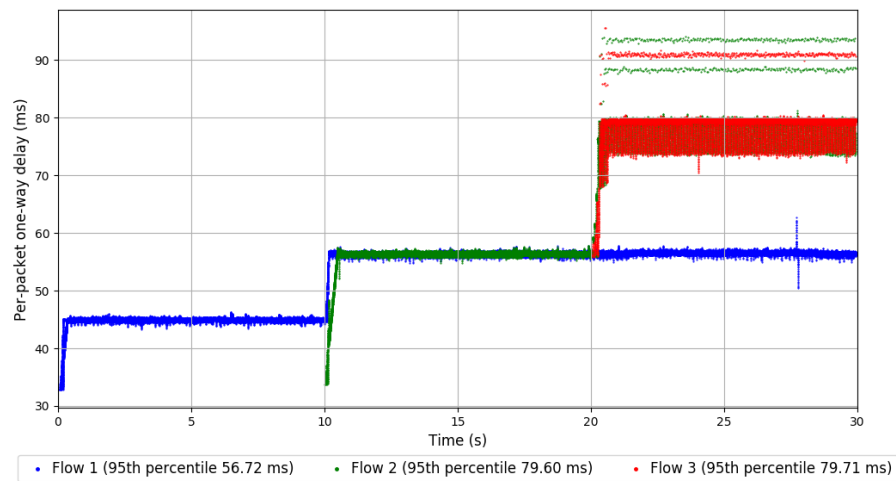
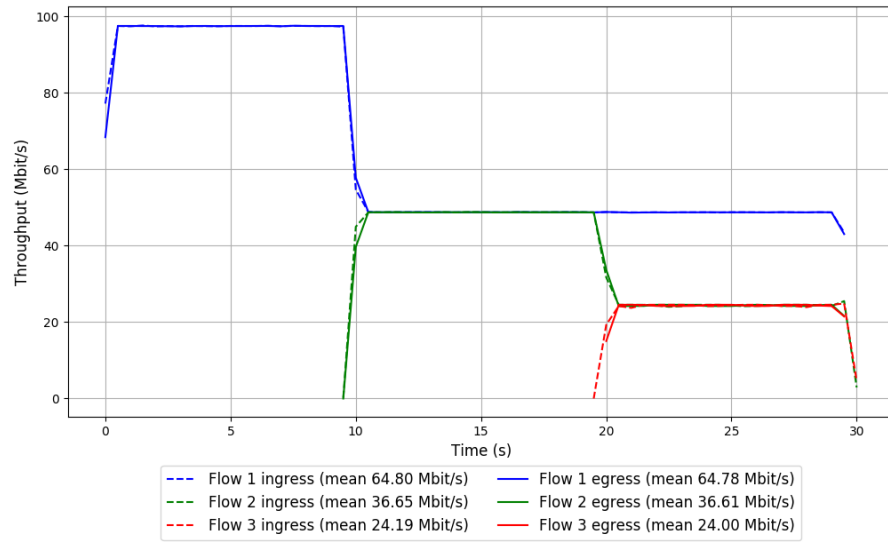


Run 8: Statistics of TCP Cubic

Start at: 2018-01-26 12:56:25  
End at: 2018-01-26 12:56:55  
Local clock offset: 3.472 ms  
Remote clock offset: -10.625 ms

# Below is generated by plot.py at 2018-01-26 17:10:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 79.479 ms  
Loss rate: 0.49%  
-- Flow 1:  
Average throughput: 64.78 Mbit/s  
95th percentile per-packet one-way delay: 56.722 ms  
Loss rate: 0.15%  
-- Flow 2:  
Average throughput: 36.61 Mbit/s  
95th percentile per-packet one-way delay: 79.603 ms  
Loss rate: 0.74%  
-- Flow 3:  
Average throughput: 24.00 Mbit/s  
95th percentile per-packet one-way delay: 79.710 ms  
Loss rate: 2.39%

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

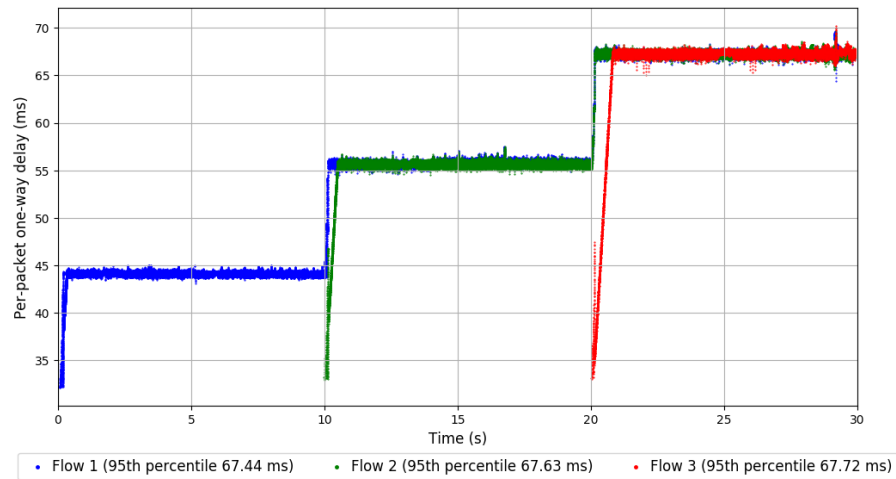
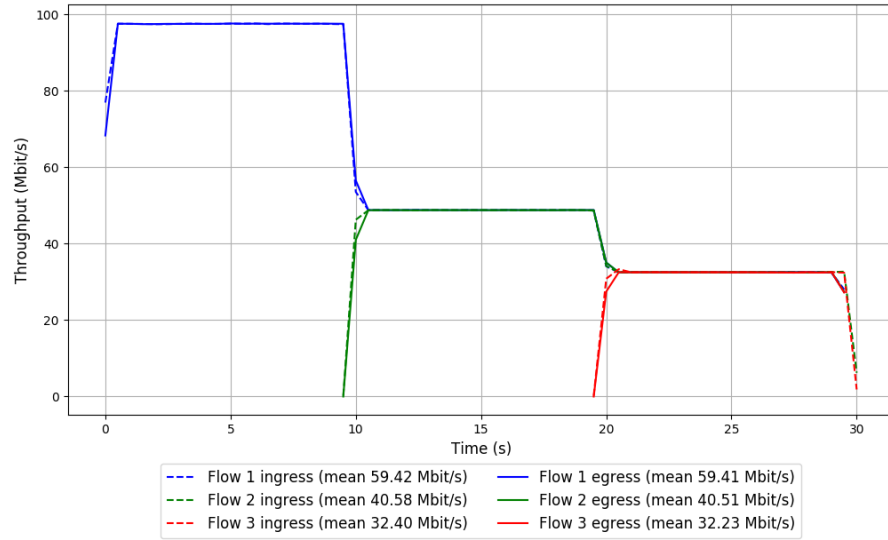


Run 9: Statistics of TCP Cubic

Start at: 2018-01-26 13:15:59  
End at: 2018-01-26 13:16:29  
Local clock offset: 2.568 ms  
Remote clock offset: -11.648 ms

# Below is generated by plot.py at 2018-01-26 17:10:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.13 Mbit/s  
95th percentile per-packet one-way delay: 67.600 ms  
Loss rate: 0.55%  
-- Flow 1:  
Average throughput: 59.41 Mbit/s  
95th percentile per-packet one-way delay: 67.442 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 40.51 Mbit/s  
95th percentile per-packet one-way delay: 67.631 ms  
Loss rate: 0.97%  
-- Flow 3:  
Average throughput: 32.23 Mbit/s  
95th percentile per-packet one-way delay: 67.721 ms  
Loss rate: 1.75%

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



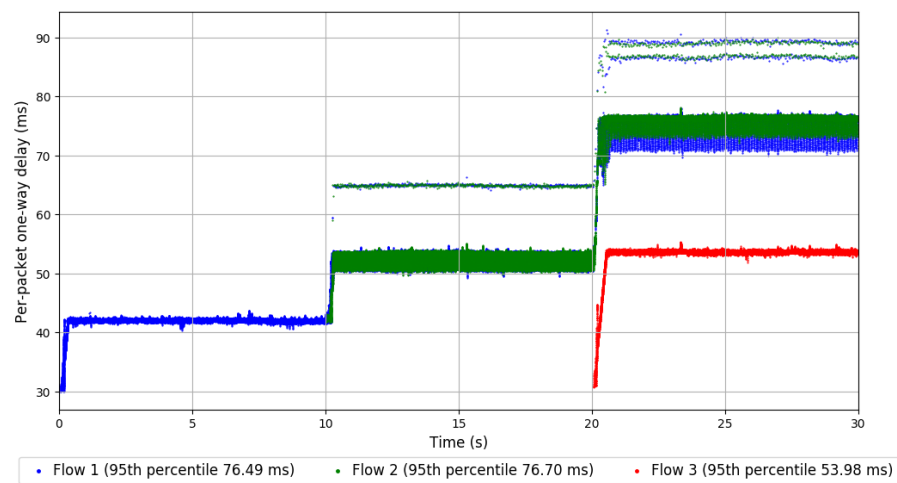
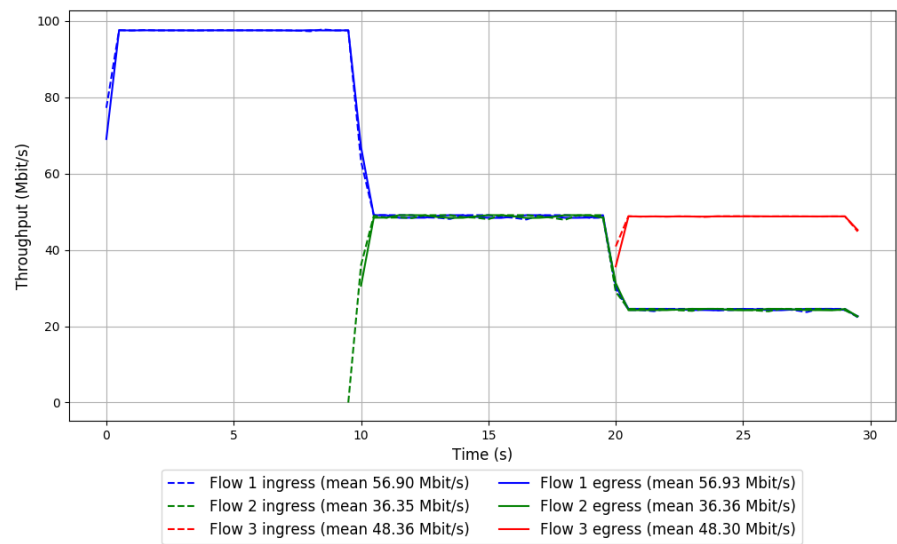
Run 10: Statistics of TCP Cubic

Start at: 2018-01-26 13:35:53  
End at: 2018-01-26 13:36:23  
Local clock offset: 0.797 ms  
Remote clock offset: -11.962 ms

# Below is generated by plot.py at 2018-01-26 17:10:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 76.545 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 56.93 Mbit/s  
95th percentile per-packet one-way delay: 76.494 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 36.36 Mbit/s  
95th percentile per-packet one-way delay: 76.696 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 48.30 Mbit/s  
95th percentile per-packet one-way delay: 53.975 ms  
Loss rate: 0.50%



Run 10: Report of TCP Cubic — Data Link

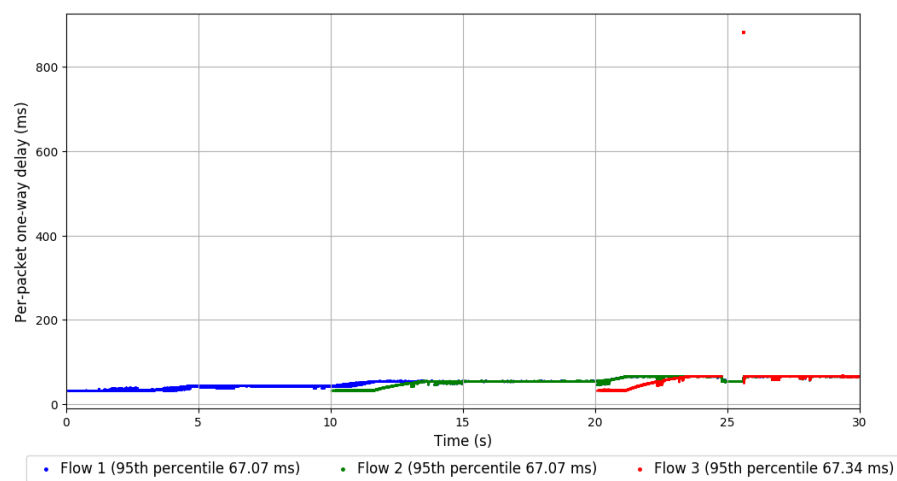
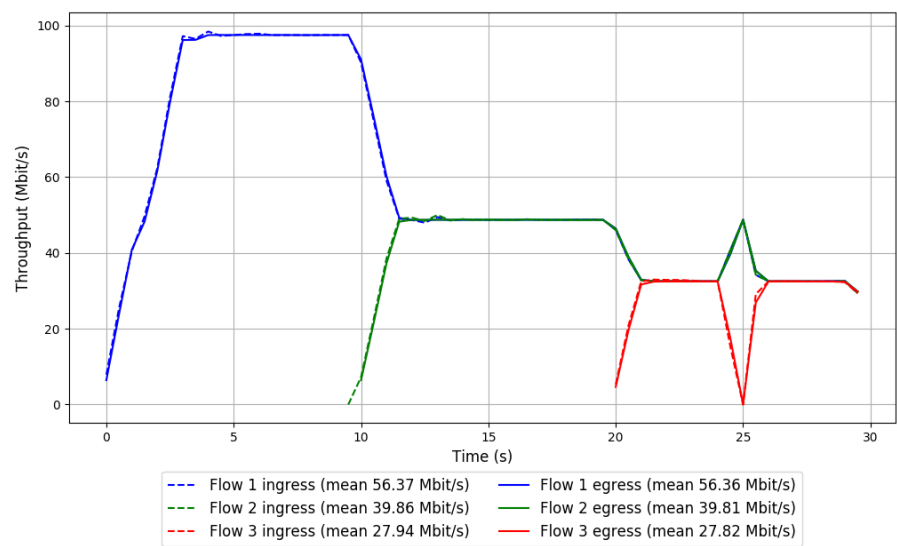


```
Run 1: Statistics of LEDBAT

Start at: 2018-01-26 10:37:26
End at: 2018-01-26 10:37:56
Local clock offset: 2.196 ms
Remote clock offset: -19.244 ms

# Below is generated by plot.py at 2018-01-26 17:10:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 92.10 Mbit/s
95th percentile per-packet one-way delay: 67.158 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 56.36 Mbit/s
95th percentile per-packet one-way delay: 67.070 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 39.81 Mbit/s
95th percentile per-packet one-way delay: 67.069 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 27.82 Mbit/s
95th percentile per-packet one-way delay: 67.339 ms
Loss rate: 0.70%
```

Run 1: Report of LEDBAT — Data Link

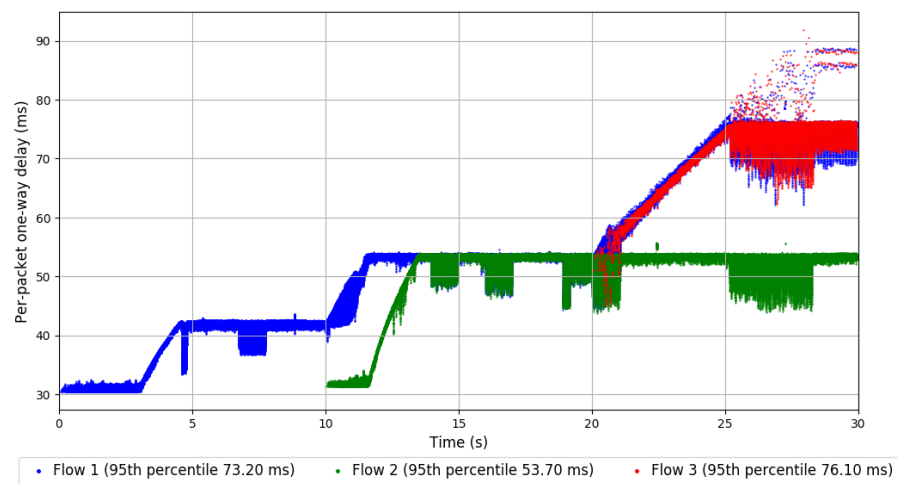
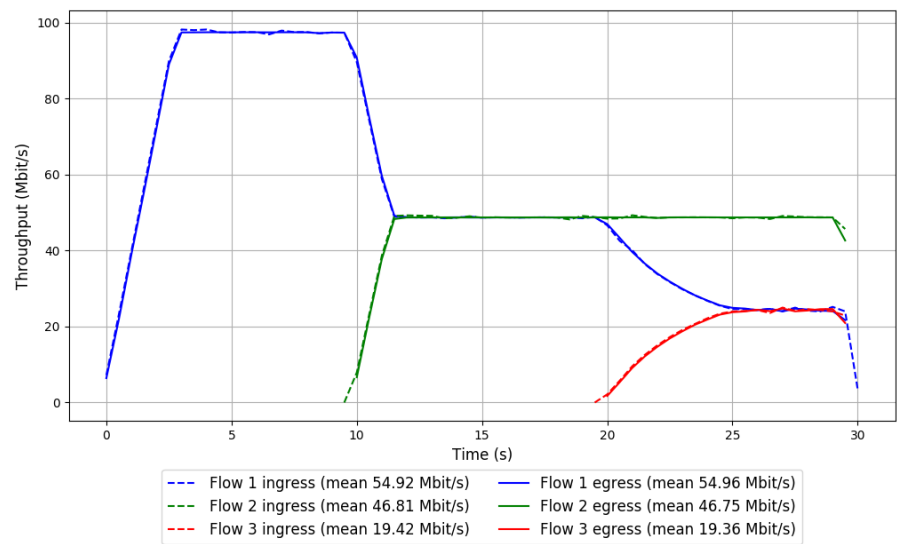


Run 2: Statistics of LEDBAT

Start at: 2018-01-26 10:56:17  
End at: 2018-01-26 10:56:47  
Local clock offset: 1.539 ms  
Remote clock offset: -17.728 ms

# Below is generated by plot.py at 2018-01-26 17:10:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.53 Mbit/s  
95th percentile per-packet one-way delay: 73.910 ms  
Loss rate: 0.42%  
-- Flow 1:  
Average throughput: 54.96 Mbit/s  
95th percentile per-packet one-way delay: 73.197 ms  
Loss rate: 0.30%  
-- Flow 2:  
Average throughput: 46.75 Mbit/s  
95th percentile per-packet one-way delay: 53.703 ms  
Loss rate: 0.44%  
-- Flow 3:  
Average throughput: 19.36 Mbit/s  
95th percentile per-packet one-way delay: 76.098 ms  
Loss rate: 1.32%

Run 2: Report of LEDBAT — Data Link

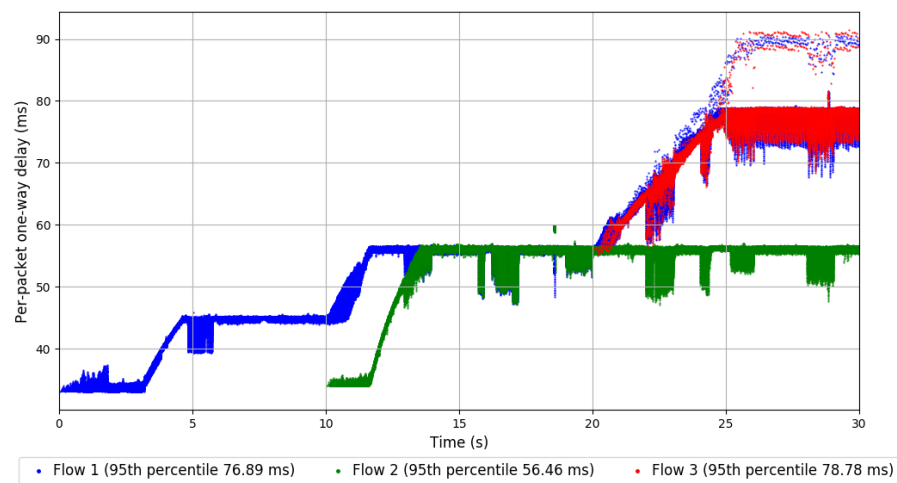
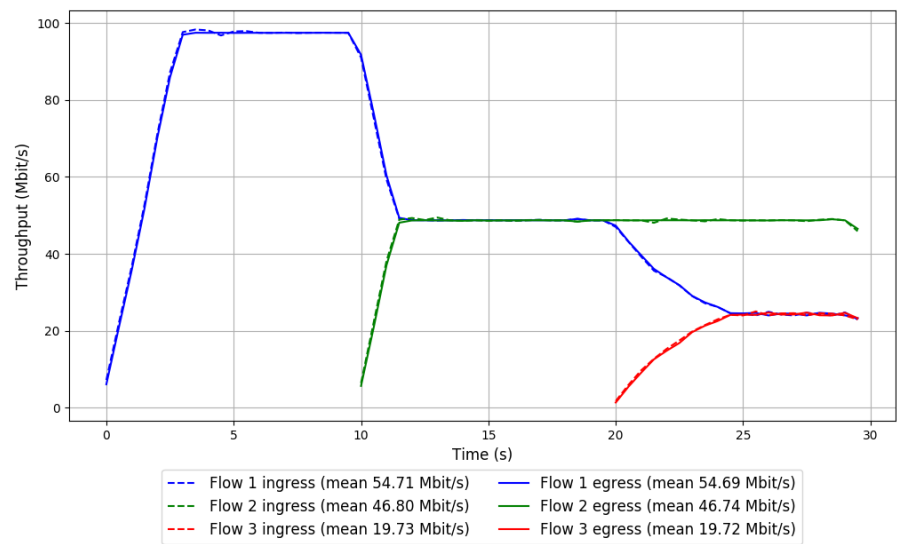


Run 3: Statistics of LEDBAT

Start at: 2018-01-26 11:15:11  
End at: 2018-01-26 11:15:41  
Local clock offset: 2.444 ms  
Remote clock offset: -17.769 ms

# Below is generated by plot.py at 2018-01-26 17:10:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.32 Mbit/s  
95th percentile per-packet one-way delay: 77.426 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 54.69 Mbit/s  
95th percentile per-packet one-way delay: 76.892 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 46.74 Mbit/s  
95th percentile per-packet one-way delay: 56.460 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 19.72 Mbit/s  
95th percentile per-packet one-way delay: 78.783 ms  
Loss rate: 0.85%

Run 3: Report of LEDBAT — Data Link



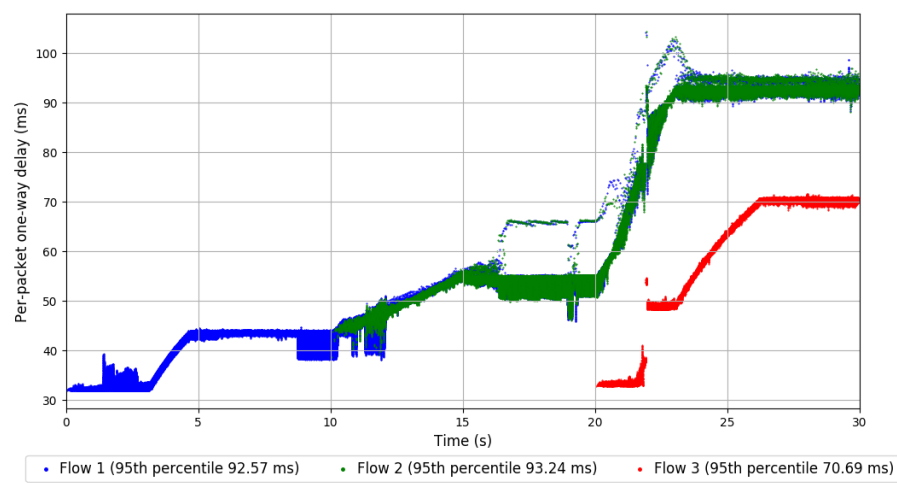
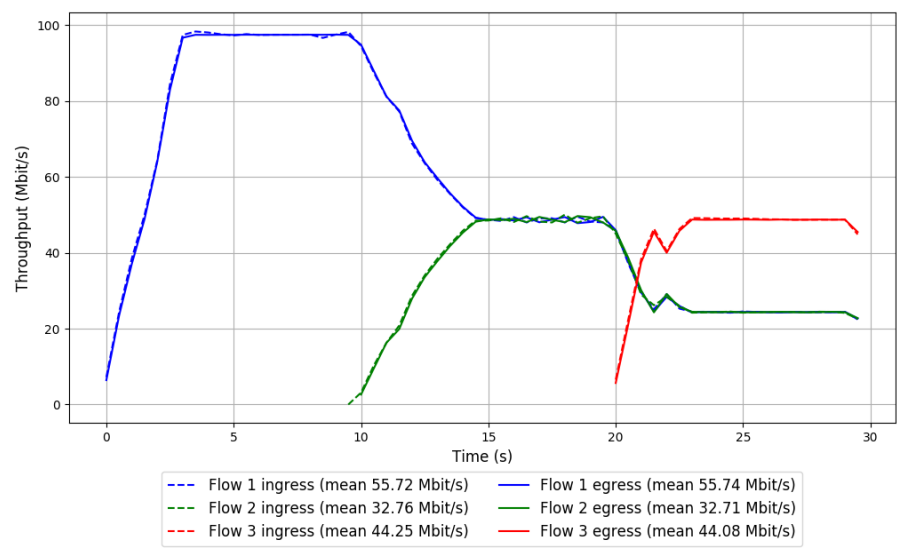
Run 4: Statistics of LEDBAT

Start at: 2018-01-26 11:34:00  
End at: 2018-01-26 11:34:30  
Local clock offset: 3.191 ms  
Remote clock offset: -14.379 ms

# Below is generated by plot.py at 2018-01-26 17:10:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.13 Mbit/s  
95th percentile per-packet one-way delay: 92.750 ms  
Loss rate: 0.27%  
-- Flow 1:  
Average throughput: 55.74 Mbit/s  
95th percentile per-packet one-way delay: 92.572 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 32.71 Mbit/s  
95th percentile per-packet one-way delay: 93.242 ms  
Loss rate: 0.32%  
-- Flow 3:  
Average throughput: 44.08 Mbit/s  
95th percentile per-packet one-way delay: 70.693 ms  
Loss rate: 0.71%



Run 4: Report of LEDBAT — Data Link

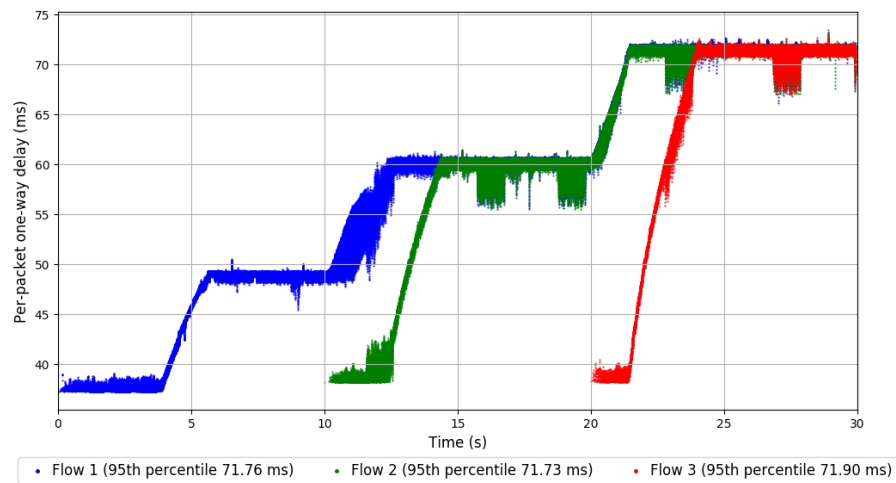
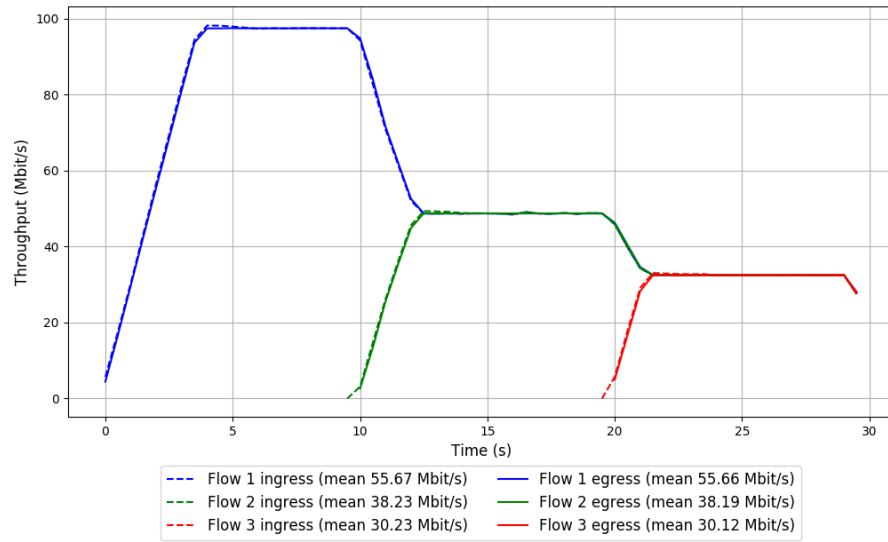


Run 5: Statistics of LEDBAT

Start at: 2018-01-26 11:53:11  
End at: 2018-01-26 11:53:41  
Local clock offset: 4.806 ms  
Remote clock offset: -12.699 ms

# Below is generated by plot.py at 2018-01-26 17:11:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.11 Mbit/s  
95th percentile per-packet one-way delay: 71.771 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 55.66 Mbit/s  
95th percentile per-packet one-way delay: 71.759 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 38.19 Mbit/s  
95th percentile per-packet one-way delay: 71.733 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 71.902 ms  
Loss rate: 0.69%

# Run 5: Report of LEDBAT — Data Link

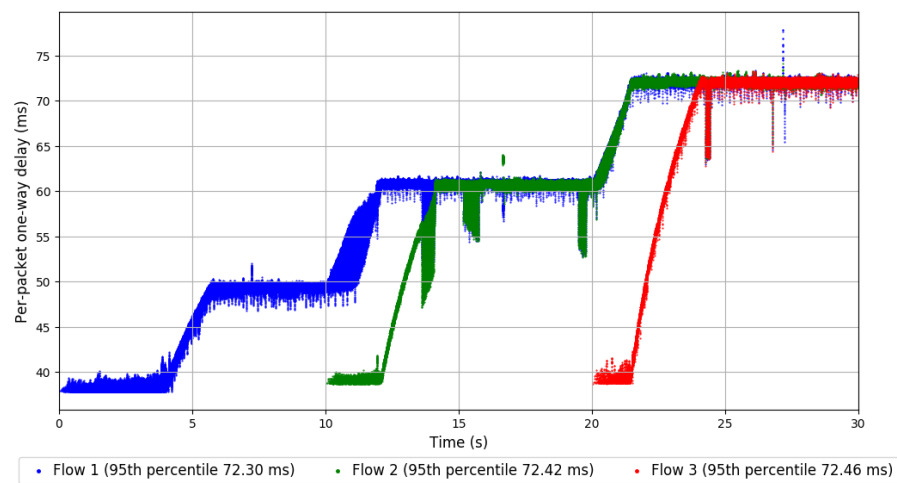
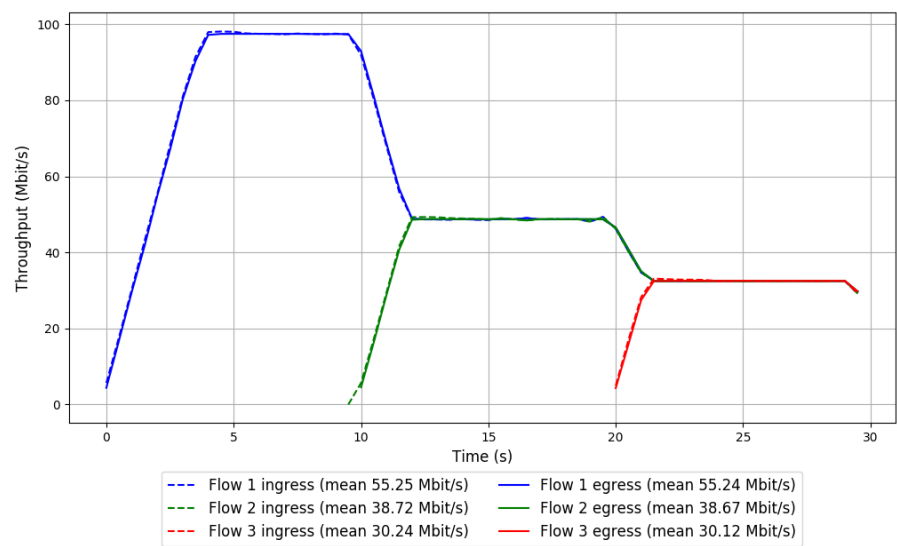


Run 6: Statistics of LEDBAT

Start at: 2018-01-26 12:12:18  
End at: 2018-01-26 12:12:48  
Local clock offset: 4.417 ms  
Remote clock offset: -12.815 ms

# Below is generated by plot.py at 2018-01-26 17:11:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.98 Mbit/s  
95th percentile per-packet one-way delay: 72.378 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 55.24 Mbit/s  
95th percentile per-packet one-way delay: 72.297 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 38.67 Mbit/s  
95th percentile per-packet one-way delay: 72.425 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 30.12 Mbit/s  
95th percentile per-packet one-way delay: 72.458 ms  
Loss rate: 0.69%

Run 6: Report of LEDBAT — Data Link

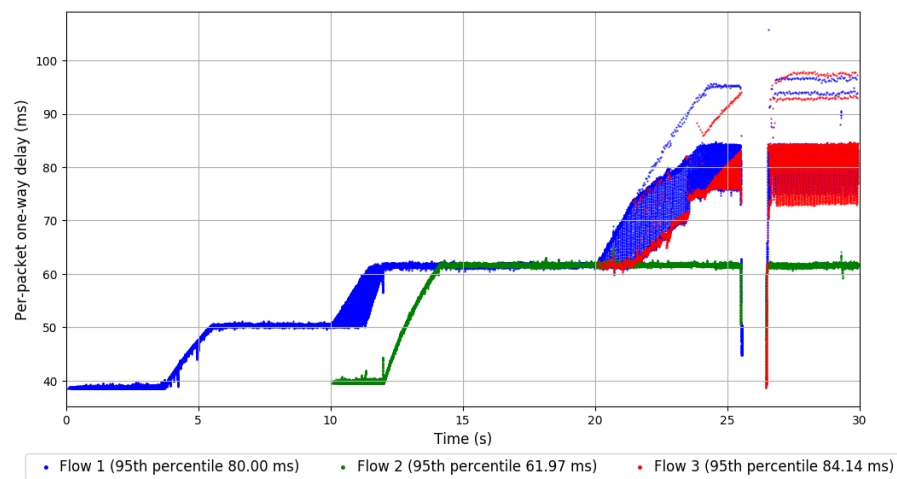
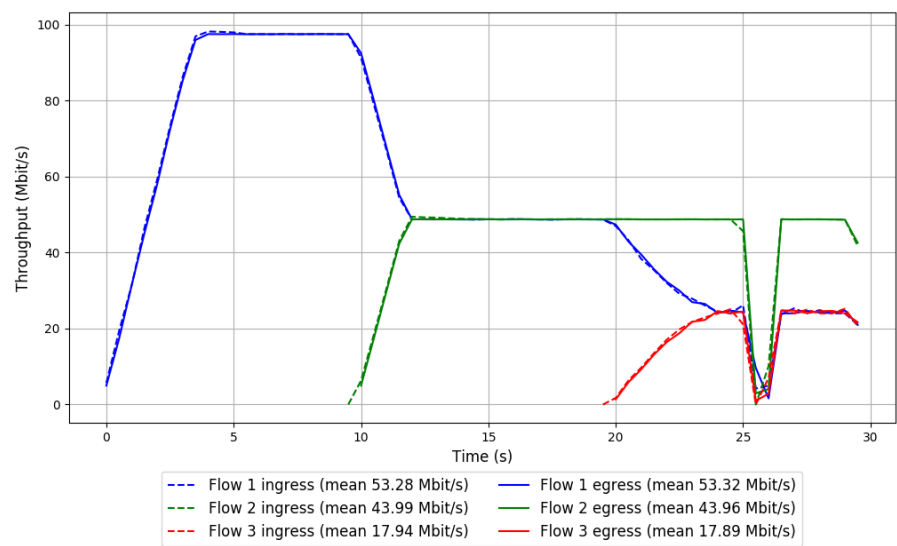


Run 7: Statistics of LEDBAT

Start at: 2018-01-26 12:31:43  
End at: 2018-01-26 12:32:13  
Local clock offset: 3.552 ms  
Remote clock offset: -12.807 ms

# Below is generated by plot.py at 2018-01-26 17:11:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.53 Mbit/s  
95th percentile per-packet one-way delay: 80.366 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 53.32 Mbit/s  
95th percentile per-packet one-way delay: 79.996 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 43.96 Mbit/s  
95th percentile per-packet one-way delay: 61.971 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 17.89 Mbit/s  
95th percentile per-packet one-way delay: 84.137 ms  
Loss rate: 0.93%

Run 7: Report of LEDBAT — Data Link



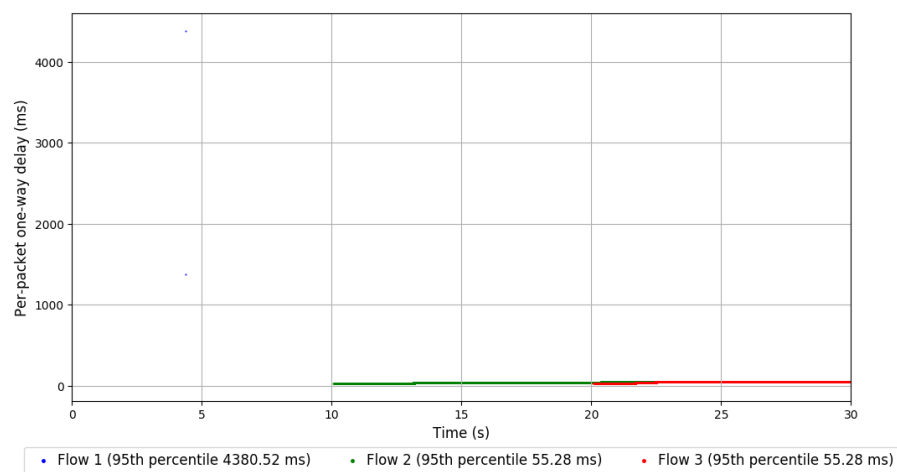
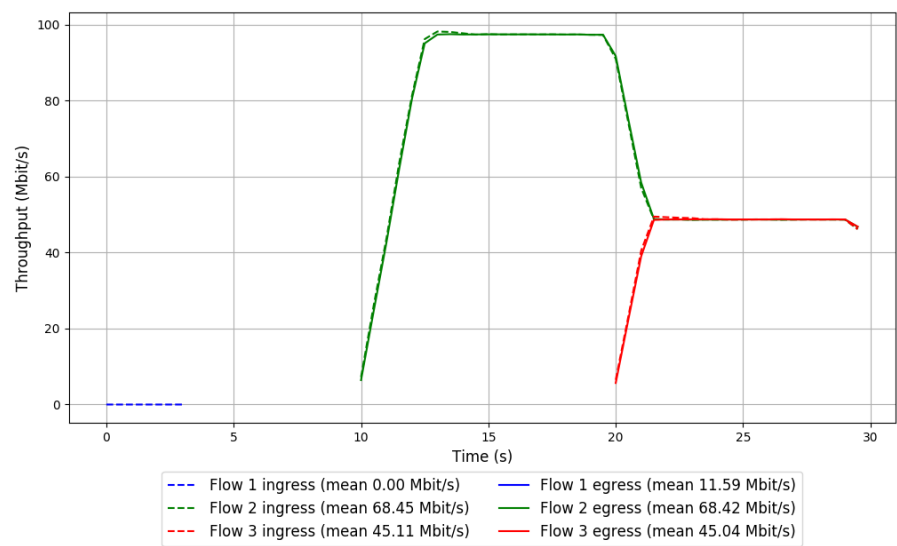
Run 8: Statistics of LEDBAT

Start at: 2018-01-26 12:51:29  
End at: 2018-01-26 12:51:59  
Local clock offset: 2.62 ms  
Remote clock offset: -10.859 ms

# Below is generated by plot.py at 2018-01-26 17:11:59  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 70.73 Mbit/s  
95th percentile per-packet one-way delay: 55.282 ms  
Loss rate: 0.26%  
-- Flow 1:  
Average throughput: 11.59 Mbit/s  
95th percentile per-packet one-way delay: 4380.518 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 68.42 Mbit/s  
95th percentile per-packet one-way delay: 55.283 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 45.04 Mbit/s  
95th percentile per-packet one-way delay: 55.280 ms  
Loss rate: 0.52%



Run 8: Report of LEDBAT — Data Link

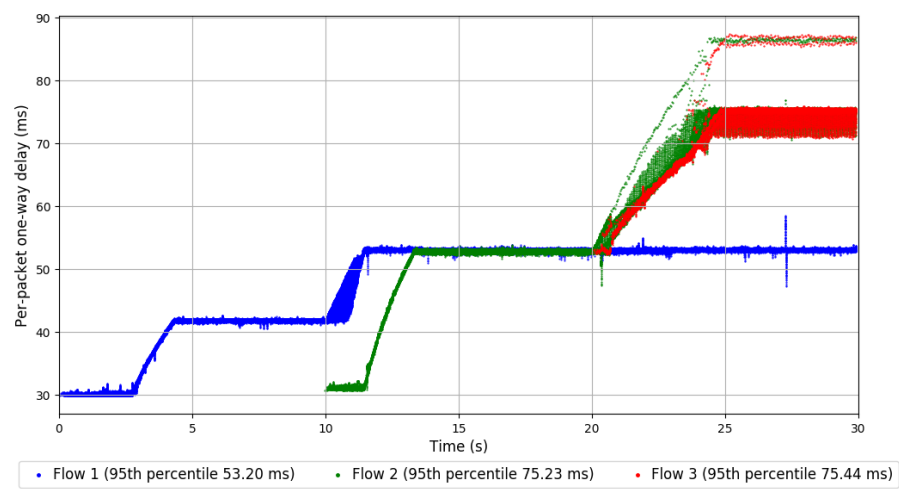
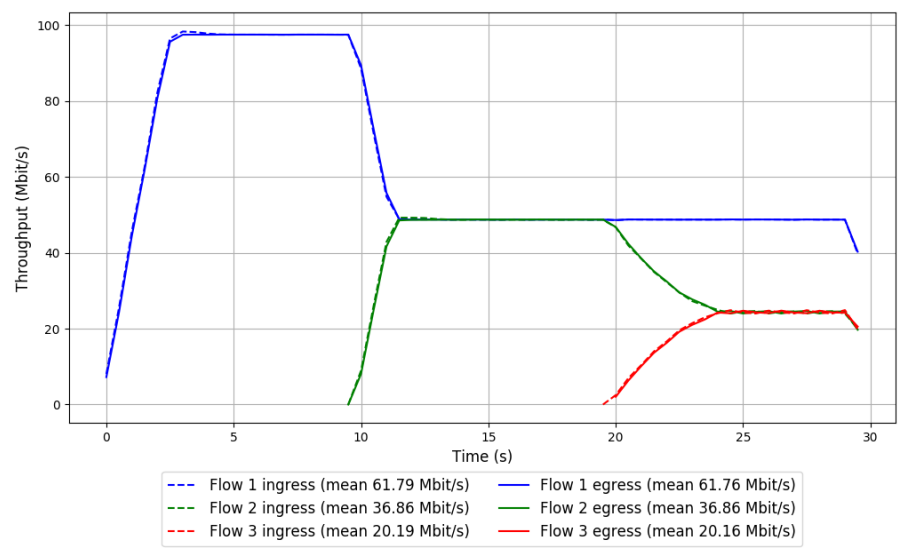


Run 9: Statistics of LEDBAT

Start at: 2018-01-26 13:11:06  
End at: 2018-01-26 13:11:36  
Local clock offset: 1.183 ms  
Remote clock offset: -10.141 ms

# Below is generated by plot.py at 2018-01-26 17:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.03 Mbit/s  
95th percentile per-packet one-way delay: 74.999 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 61.76 Mbit/s  
95th percentile per-packet one-way delay: 53.202 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 36.86 Mbit/s  
95th percentile per-packet one-way delay: 75.227 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 20.16 Mbit/s  
95th percentile per-packet one-way delay: 75.435 ms  
Loss rate: 0.82%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

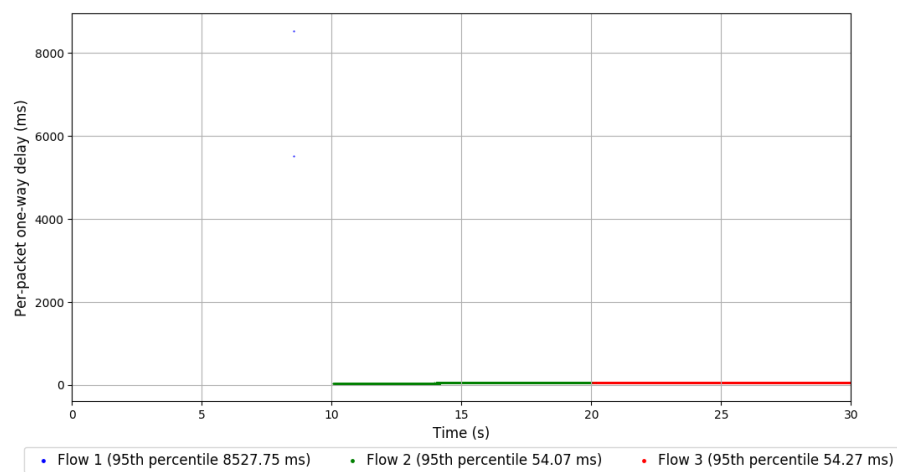
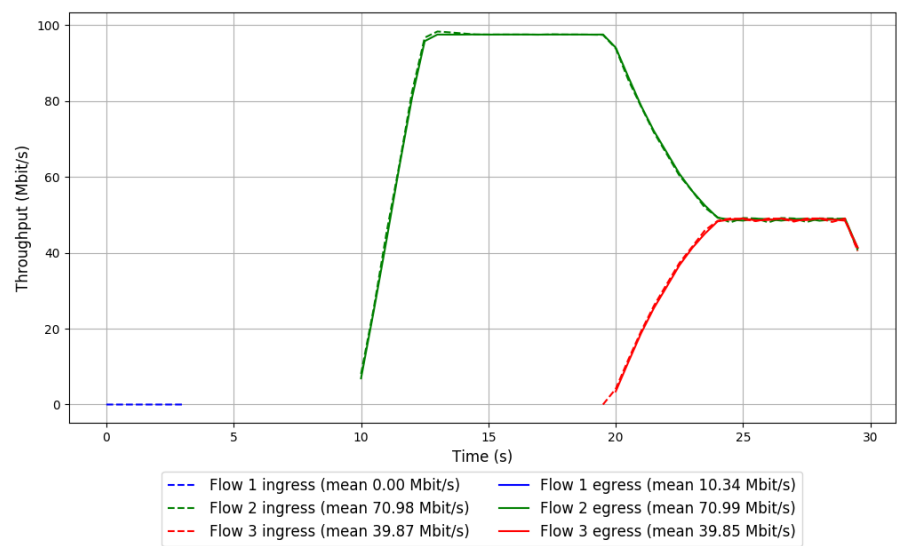
Start at: 2018-01-26 13:30:52

End at: 2018-01-26 13:31:22

Local clock offset: 1.023 ms

Remote clock offset: -12.756 ms

Run 10: Report of LEDBAT — Data Link

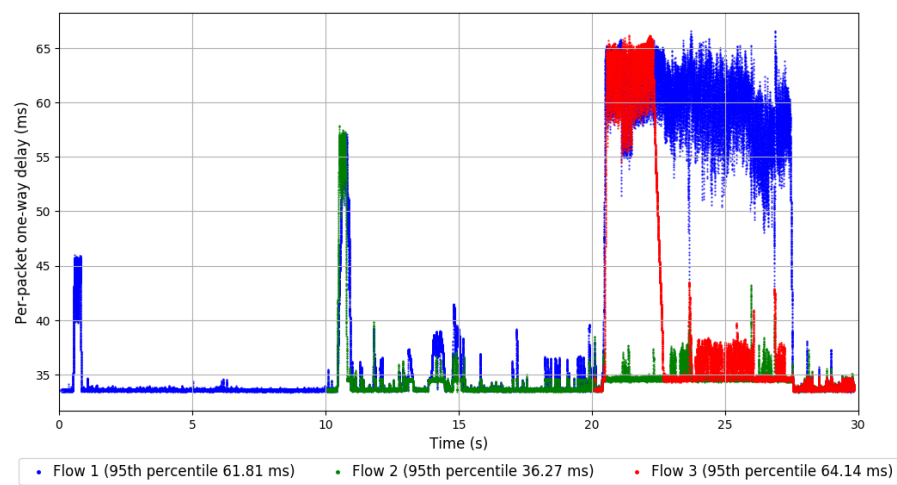
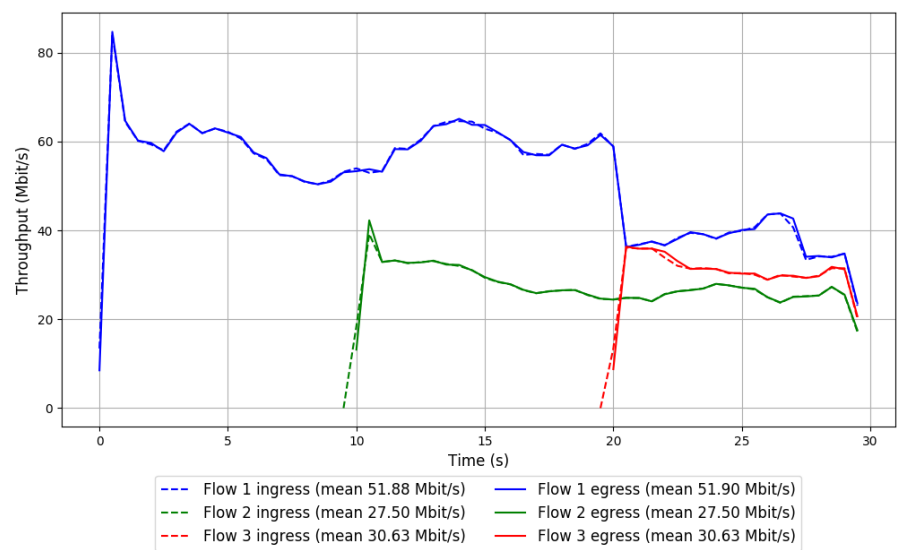


Run 1: Statistics of PCC

Start at: 2018-01-26 10:46:50  
End at: 2018-01-26 10:47:20  
Local clock offset: 4.726 ms  
Remote clock offset: -17.794 ms

# Below is generated by plot.py at 2018-01-26 17:12:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 80.29 Mbit/s  
95th percentile per-packet one-way delay: 61.761 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 51.90 Mbit/s  
95th percentile per-packet one-way delay: 61.808 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 27.50 Mbit/s  
95th percentile per-packet one-way delay: 36.270 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 30.63 Mbit/s  
95th percentile per-packet one-way delay: 64.141 ms  
Loss rate: 0.26%

Run 1: Report of PCC — Data Link



Run 2: Statistics of PCC

Start at: 2018-01-26 11:05:38

End at: 2018-01-26 11:06:08

Local clock offset: 3.483 ms

Remote clock offset: -17.0 ms

# Below is generated by plot.py at 2018-01-26 17:12:01

# Datalink statistics

-- Total of 3 flows:

Average throughput: 87.34 Mbit/s

95th percentile per-packet one-way delay: 44.094 ms

Loss rate: 0.09%

-- Flow 1:

Average throughput: 82.90 Mbit/s

95th percentile per-packet one-way delay: 44.113 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 4.71 Mbit/s

95th percentile per-packet one-way delay: 44.256 ms

Loss rate: 0.12%

-- Flow 3:

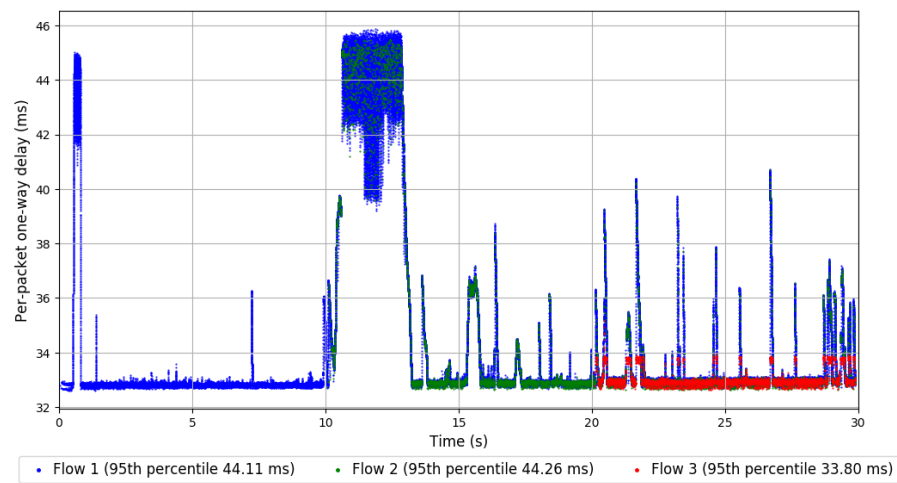
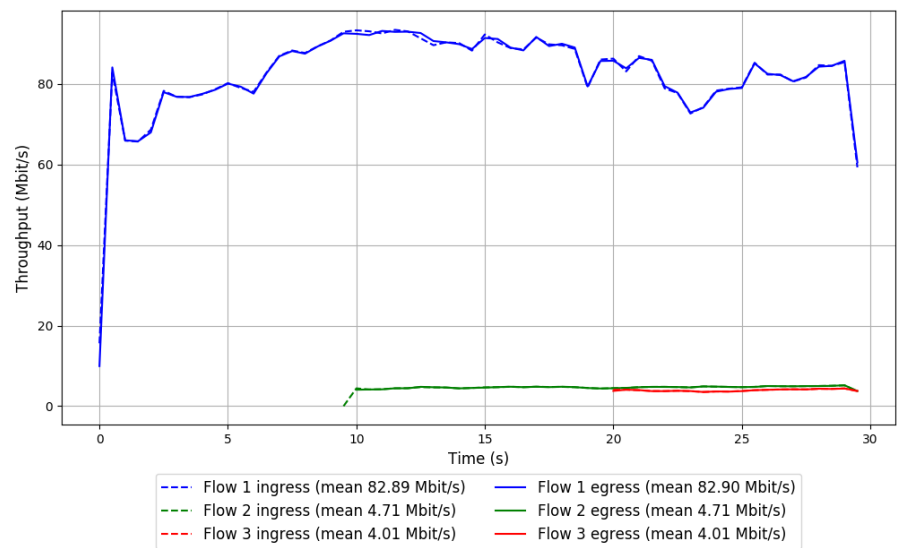
Average throughput: 4.01 Mbit/s

95th percentile per-packet one-way delay: 33.799 ms

Loss rate: 0.32%



Run 2: Report of PCC — Data Link

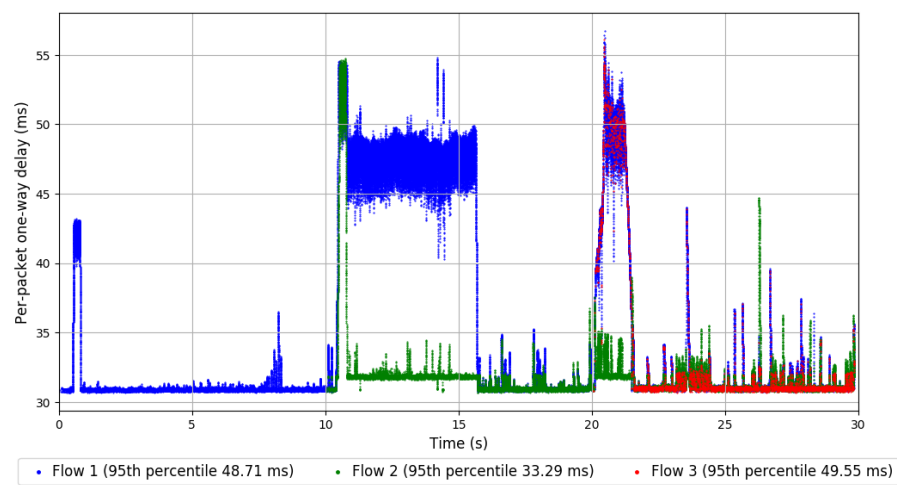
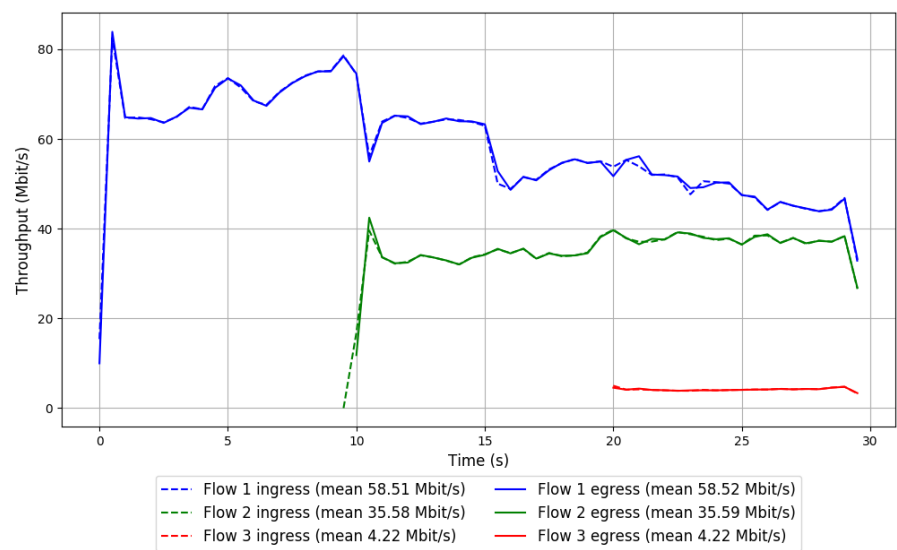


Run 3: Statistics of PCC

Start at: 2018-01-26 11:24:33  
End at: 2018-01-26 11:25:03  
Local clock offset: 1.942 ms  
Remote clock offset: -15.502 ms

# Below is generated by plot.py at 2018-01-26 17:12:40  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.59 Mbit/s  
95th percentile per-packet one-way delay: 48.493 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 58.52 Mbit/s  
95th percentile per-packet one-way delay: 48.706 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 35.59 Mbit/s  
95th percentile per-packet one-way delay: 33.292 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 4.22 Mbit/s  
95th percentile per-packet one-way delay: 49.550 ms  
Loss rate: 0.26%

Run 3: Report of PCC — Data Link

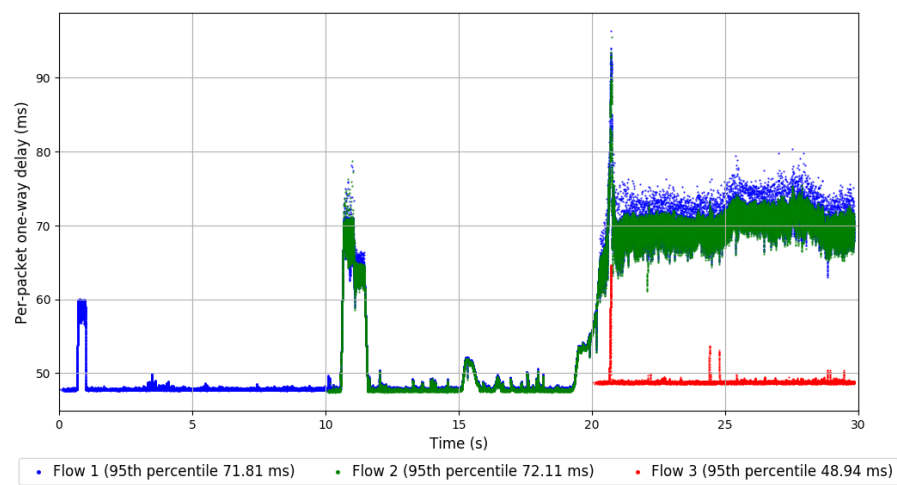
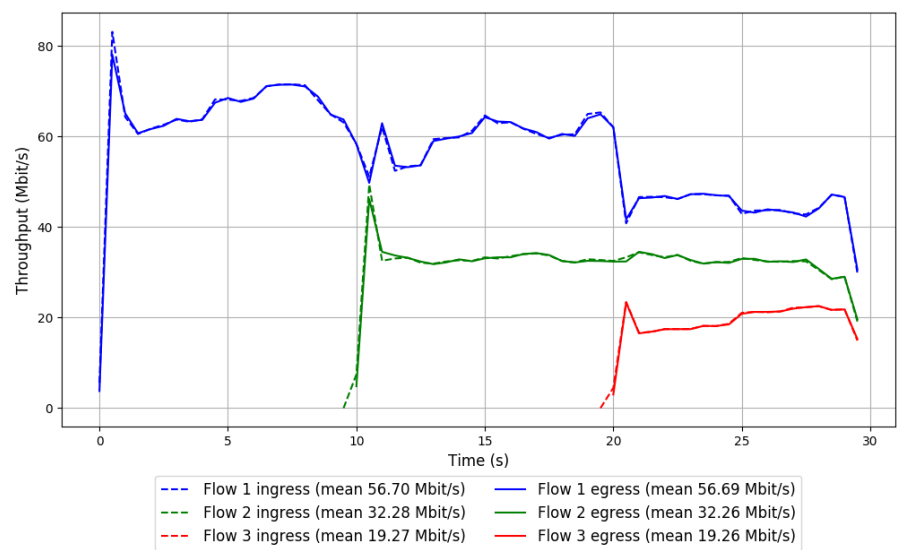


Run 4: Statistics of PCC

Start at: 2018-01-26 11:43:31  
End at: 2018-01-26 11:44:01  
Local clock offset: 2.081 ms  
Remote clock offset: -15.288 ms

# Below is generated by plot.py at 2018-01-26 17:12:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 84.49 Mbit/s  
95th percentile per-packet one-way delay: 71.822 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 56.69 Mbit/s  
95th percentile per-packet one-way delay: 71.808 ms  
Loss rate: 0.17%  
-- Flow 2:  
Average throughput: 32.26 Mbit/s  
95th percentile per-packet one-way delay: 72.108 ms  
Loss rate: 0.28%  
-- Flow 3:  
Average throughput: 19.26 Mbit/s  
95th percentile per-packet one-way delay: 48.943 ms  
Loss rate: 0.49%

Run 4: Report of PCC — Data Link

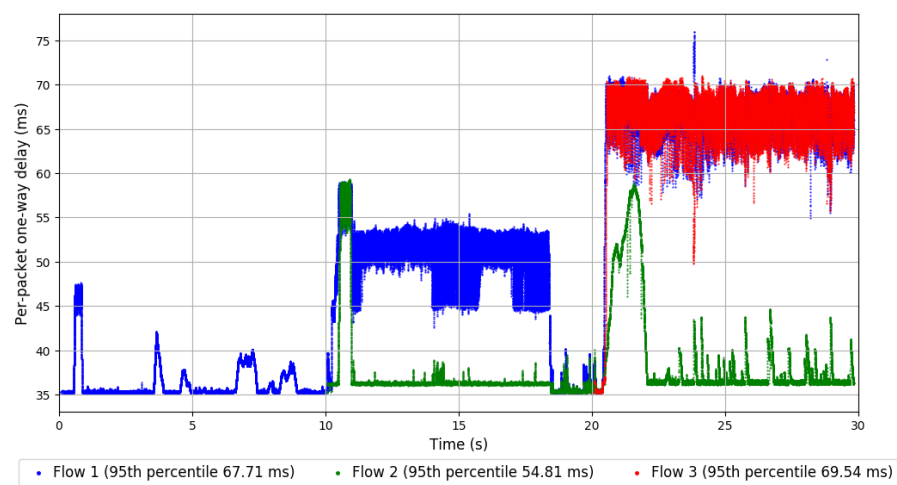
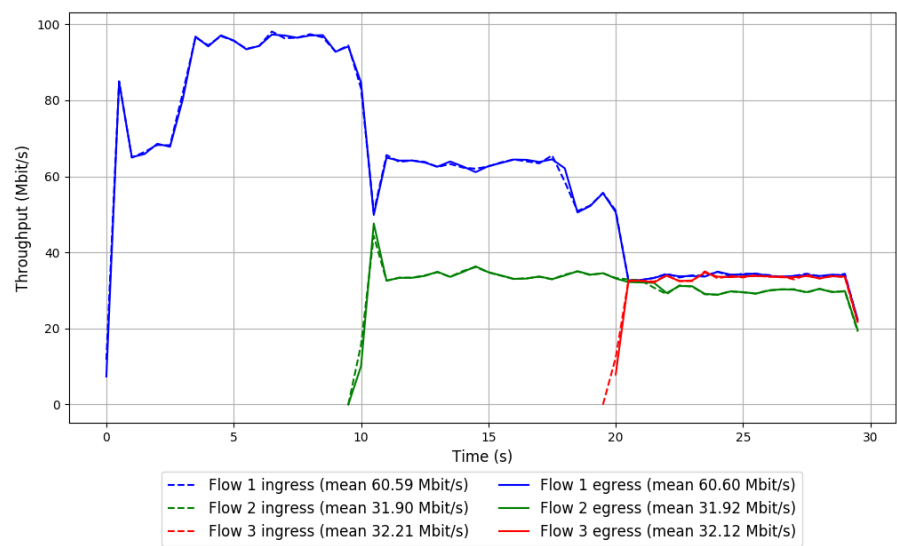


Run 5: Statistics of PCC

Start at: 2018-01-26 12:02:38  
End at: 2018-01-26 12:03:08  
Local clock offset: 2.119 ms  
Remote clock offset: -12.818 ms

# Below is generated by plot.py at 2018-01-26 17:13:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.43 Mbit/s  
95th percentile per-packet one-way delay: 68.168 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 60.60 Mbit/s  
95th percentile per-packet one-way delay: 67.708 ms  
Loss rate: 0.12%  
-- Flow 2:  
Average throughput: 31.92 Mbit/s  
95th percentile per-packet one-way delay: 54.810 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.12 Mbit/s  
95th percentile per-packet one-way delay: 69.539 ms  
Loss rate: 0.64%

Run 5: Report of PCC — Data Link



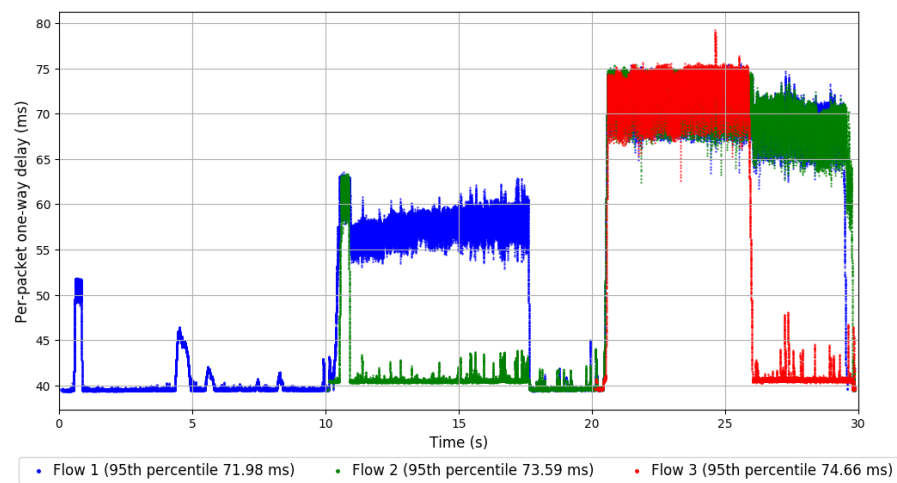
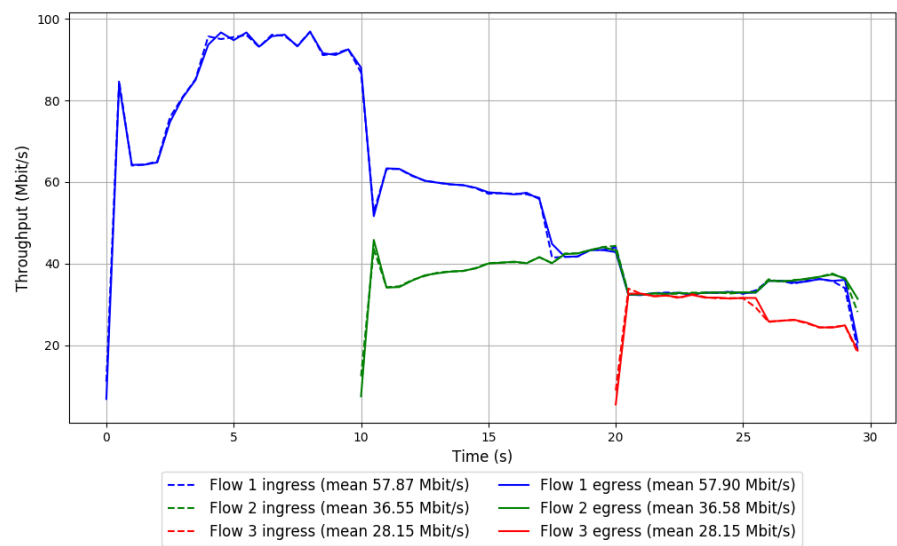
Run 6: Statistics of PCC

Start at: 2018-01-26 12:21:47  
End at: 2018-01-26 12:22:17  
Local clock offset: 3.902 ms  
Remote clock offset: -13.932 ms

# Below is generated by plot.py at 2018-01-26 17:13:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.49 Mbit/s  
95th percentile per-packet one-way delay: 73.410 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 57.90 Mbit/s  
95th percentile per-packet one-way delay: 71.982 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 36.58 Mbit/s  
95th percentile per-packet one-way delay: 73.588 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 28.15 Mbit/s  
95th percentile per-packet one-way delay: 74.663 ms  
Loss rate: 0.26%



Run 6: Report of PCC — Data Link

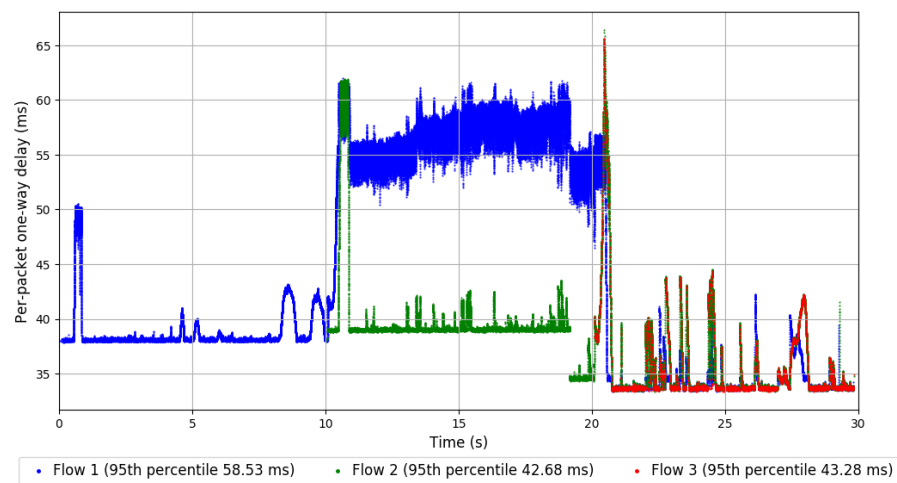
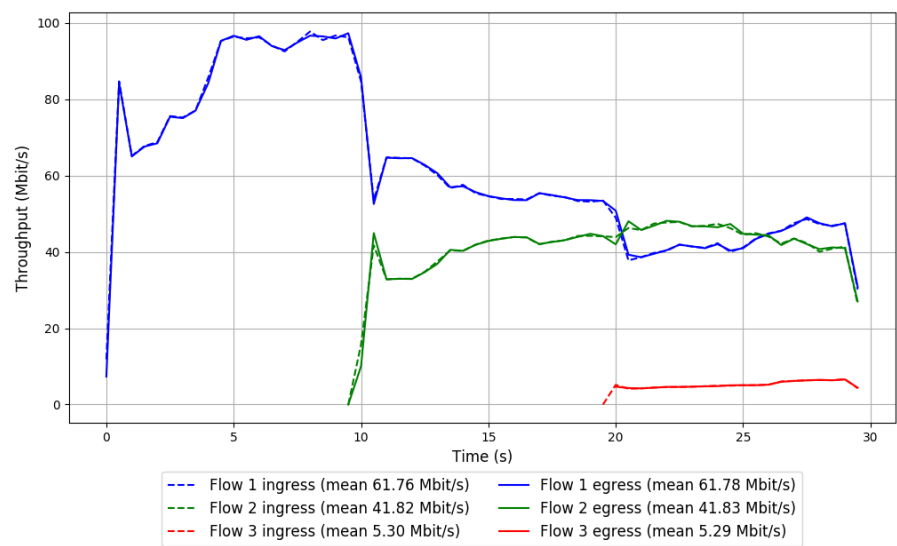


Run 7: Statistics of PCC

Start at: 2018-01-26 12:41:22  
End at: 2018-01-26 12:41:52  
Local clock offset: 4.865 ms  
Remote clock offset: -10.796 ms

# Below is generated by plot.py at 2018-01-26 17:13:43  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 91.37 Mbit/s  
95th percentile per-packet one-way delay: 58.204 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 61.78 Mbit/s  
95th percentile per-packet one-way delay: 58.530 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 41.83 Mbit/s  
95th percentile per-packet one-way delay: 42.678 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 5.29 Mbit/s  
95th percentile per-packet one-way delay: 43.282 ms  
Loss rate: 0.33%

Run 7: Report of PCC — Data Link

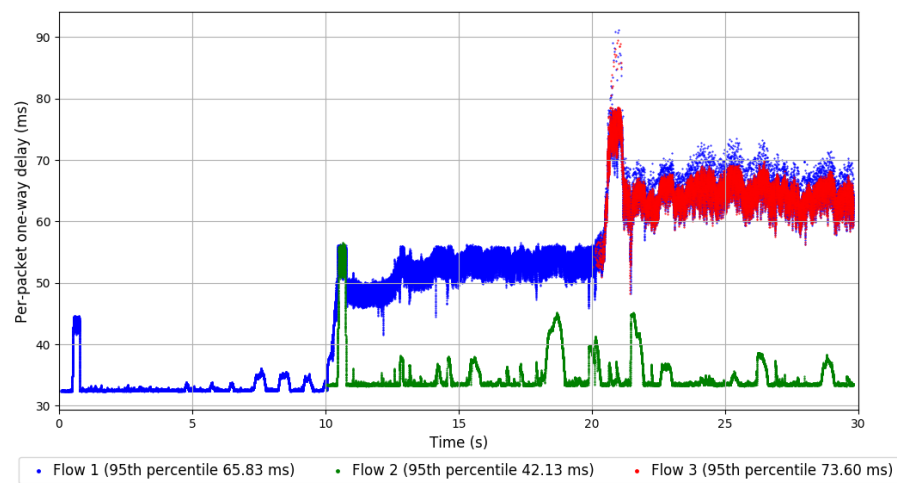
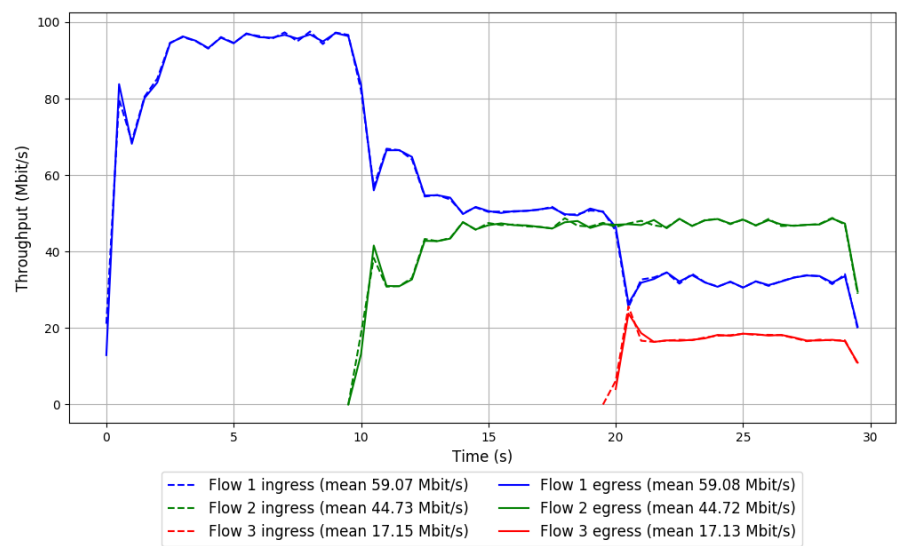


Run 8: Statistics of PCC

Start at: 2018-01-26 13:01:06  
End at: 2018-01-26 13:01:36  
Local clock offset: 2.63 ms  
Remote clock offset: -11.044 ms

# Below is generated by plot.py at 2018-01-26 17:13:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.47 Mbit/s  
95th percentile per-packet one-way delay: 65.763 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 59.08 Mbit/s  
95th percentile per-packet one-way delay: 65.829 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 44.72 Mbit/s  
95th percentile per-packet one-way delay: 42.131 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 17.13 Mbit/s  
95th percentile per-packet one-way delay: 73.602 ms  
Loss rate: 0.60%

Run 8: Report of PCC — Data Link

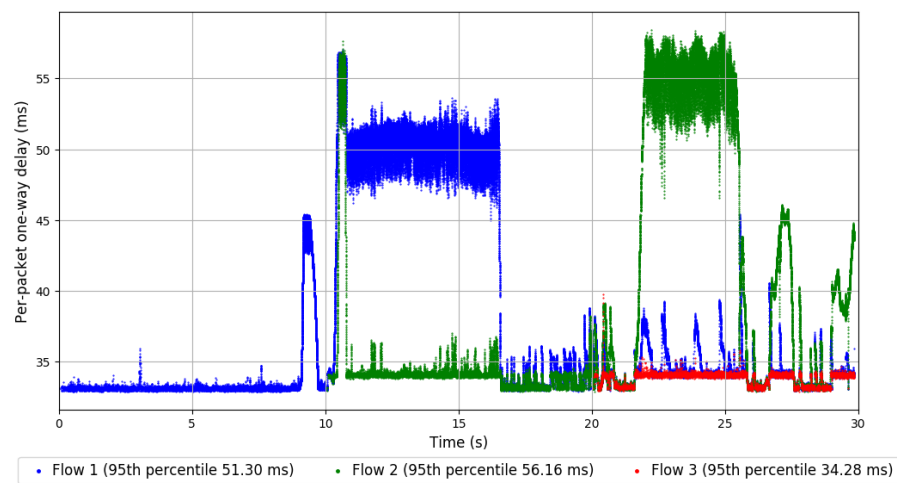
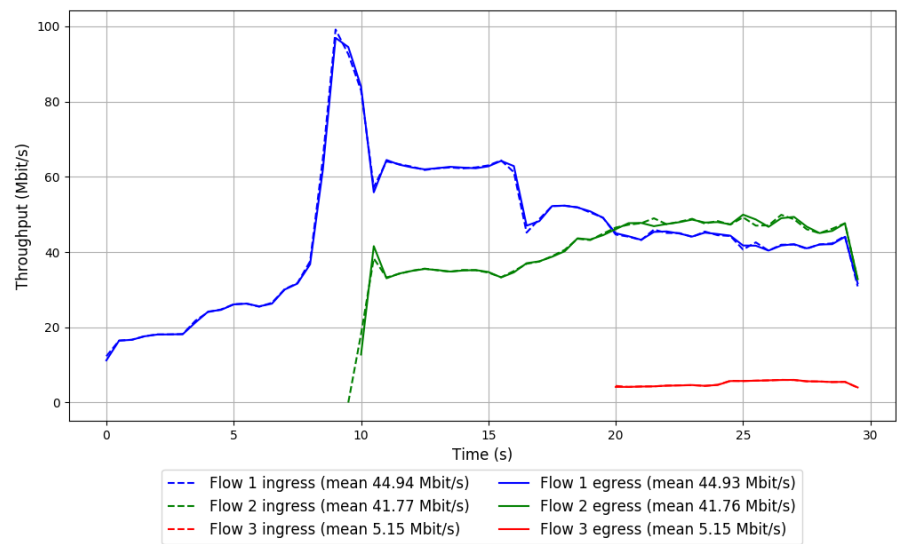


Run 9: Statistics of PCC

Start at: 2018-01-26 13:20:40  
End at: 2018-01-26 13:21:10  
Local clock offset: 3.421 ms  
Remote clock offset: -12.195 ms

# Below is generated by plot.py at 2018-01-26 17:13:46  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 74.41 Mbit/s  
95th percentile per-packet one-way delay: 54.690 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 44.93 Mbit/s  
95th percentile per-packet one-way delay: 51.304 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 41.76 Mbit/s  
95th percentile per-packet one-way delay: 56.158 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 5.15 Mbit/s  
95th percentile per-packet one-way delay: 34.285 ms  
Loss rate: 0.31%

Run 9: Report of PCC — Data Link



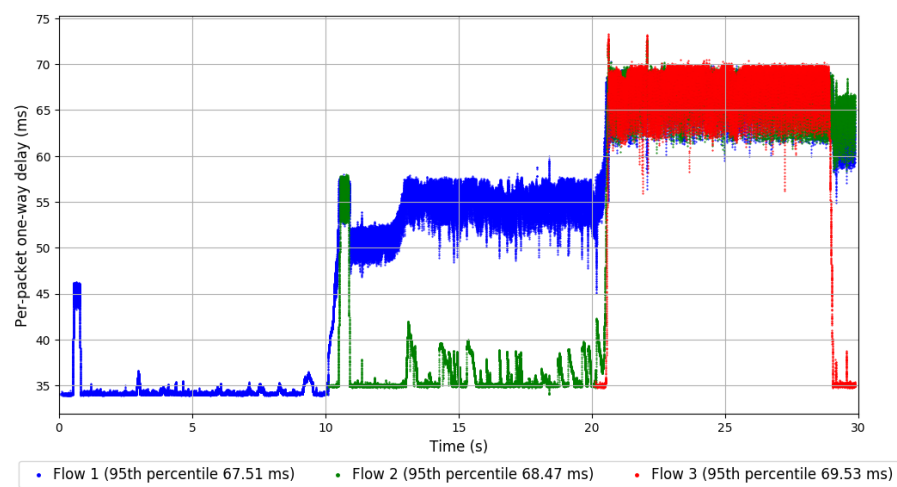
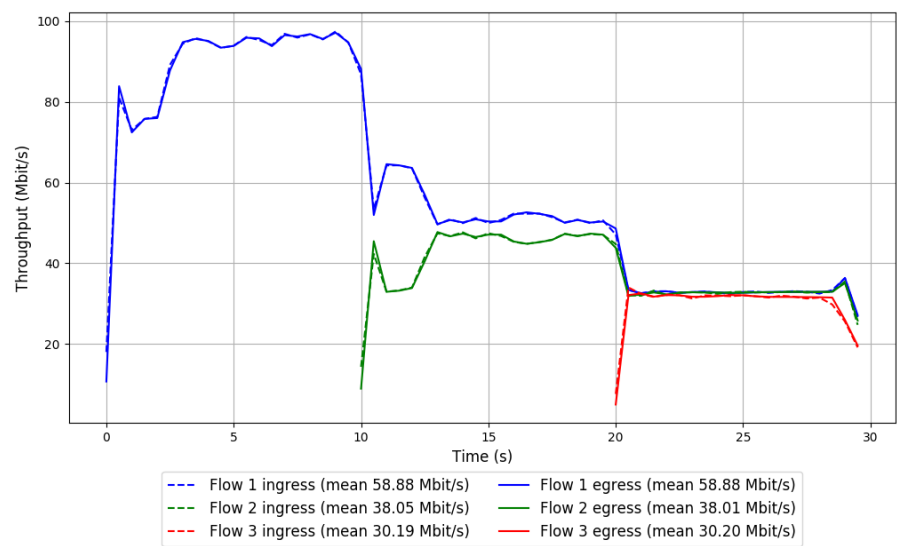
Run 10: Statistics of PCC

Start at: 2018-01-26 13:40:34  
End at: 2018-01-26 13:41:04  
Local clock offset: 4.09 ms  
Remote clock offset: -13.138 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.07 Mbit/s  
95th percentile per-packet one-way delay: 68.418 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 58.88 Mbit/s  
95th percentile per-packet one-way delay: 67.512 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 38.01 Mbit/s  
95th percentile per-packet one-way delay: 68.473 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 30.20 Mbit/s  
95th percentile per-packet one-way delay: 69.532 ms  
Loss rate: 0.24%



Run 10: Report of PCC — Data Link



Run 1: Statistics of QUIC Cubic

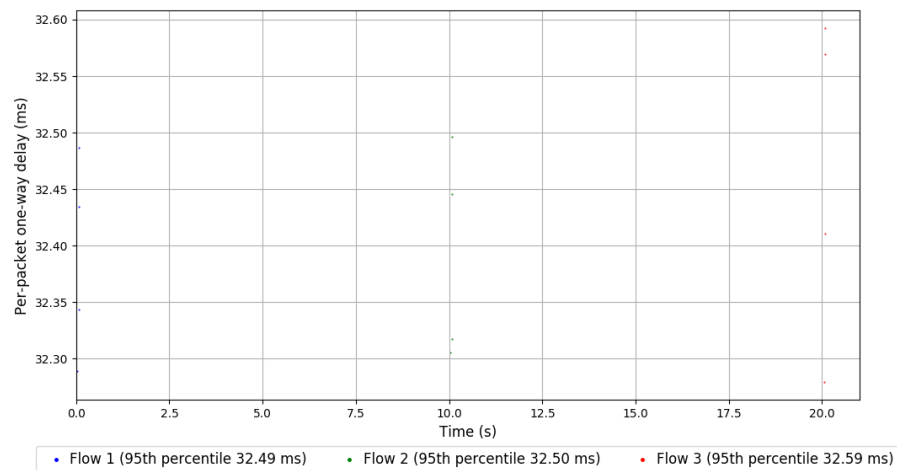
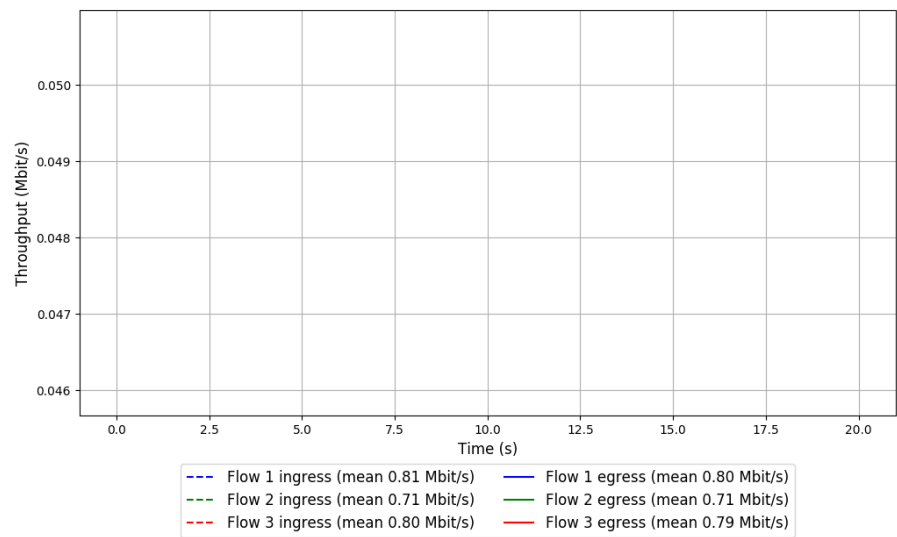
Start at: 2018-01-26 10:44:39

End at: 2018-01-26 10:45:09

Local clock offset: 3.996 ms

Remote clock offset: -17.345 ms

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

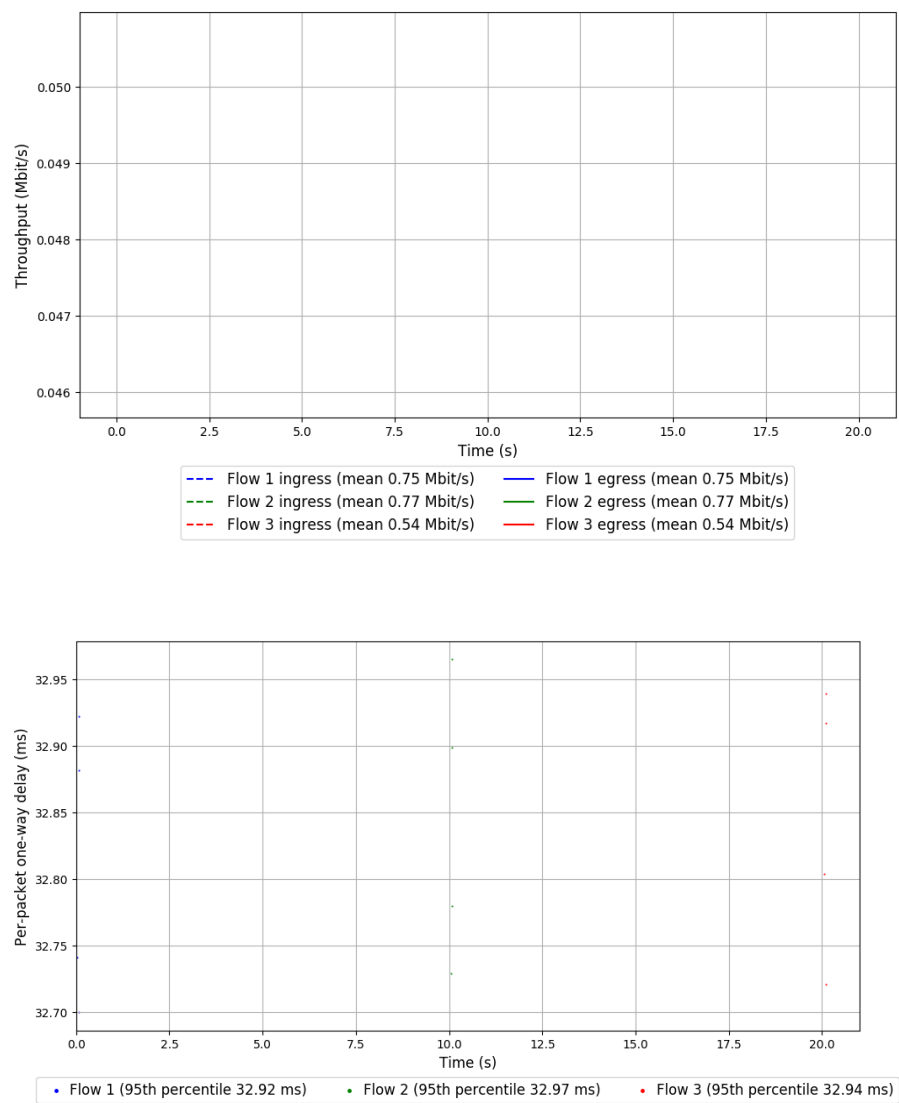
Start at: 2018-01-26 11:03:26

End at: 2018-01-26 11:03:56

Local clock offset: 4.371 ms

Remote clock offset: -16.338 ms

Run 2: Report of QUIC Cubic — Data Link



Run 3: Statistics of QUIC Cubic

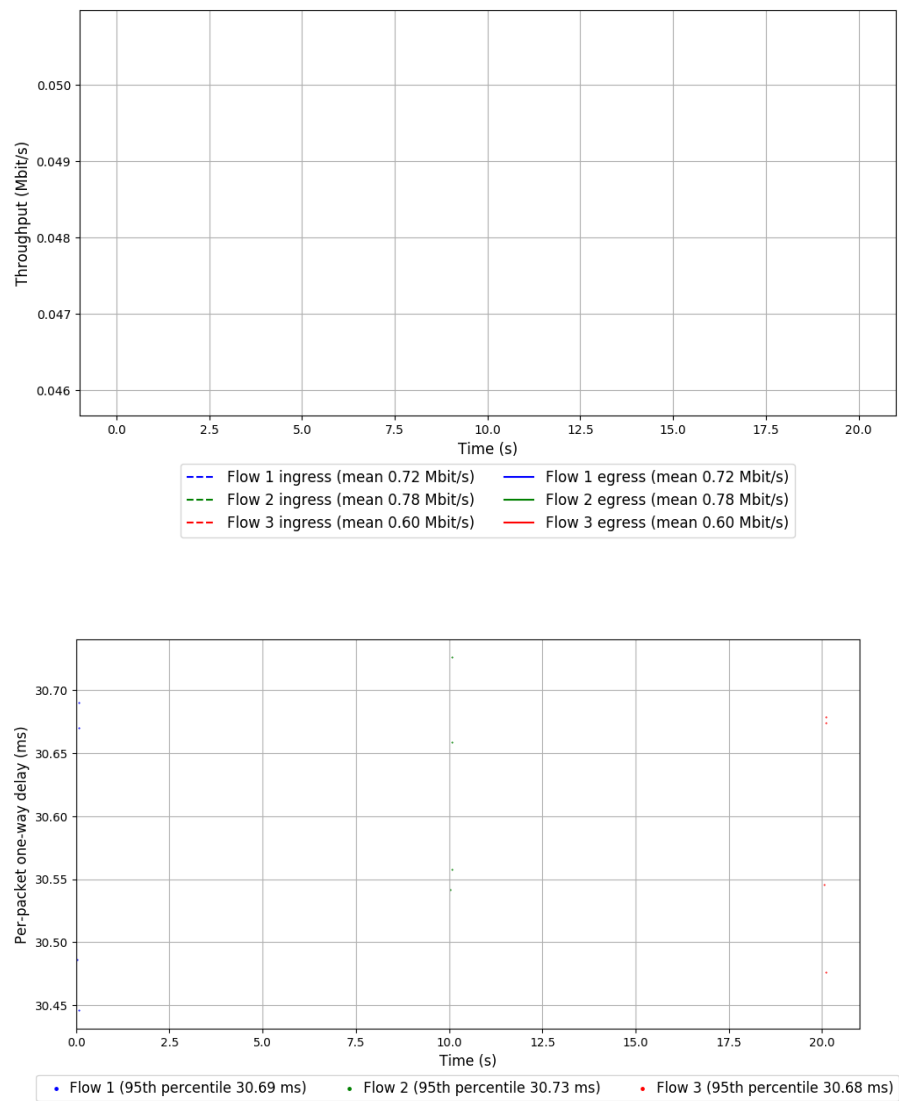
Start at: 2018-01-26 11:22:22

End at: 2018-01-26 11:22:52

Local clock offset: 1.757 ms

Remote clock offset: -15.607 ms

Run 3: Report of QUIC Cubic — Data Link



Run 4: Statistics of QUIC Cubic

Start at: 2018-01-26 11:41:18

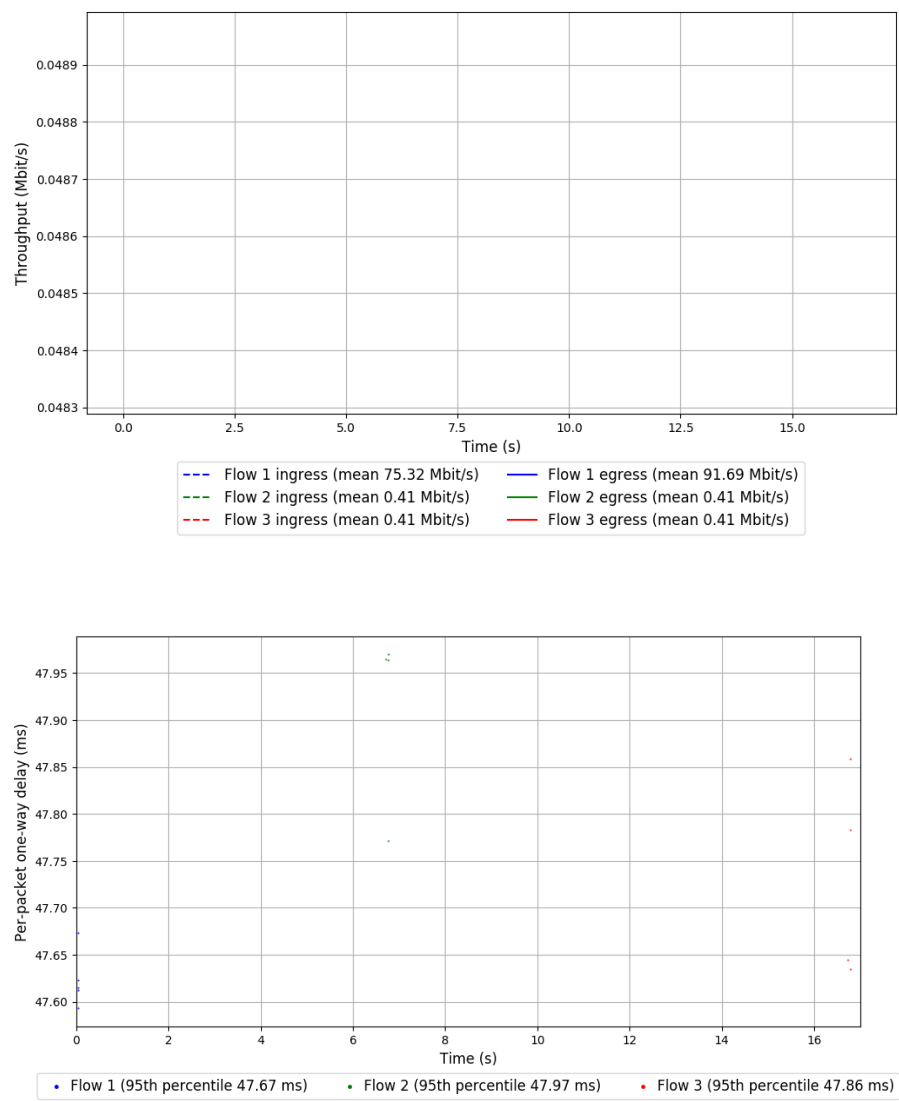
End at: 2018-01-26 11:41:48

Local clock offset: 4.472 ms

Remote clock offset: -13.076 ms



Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

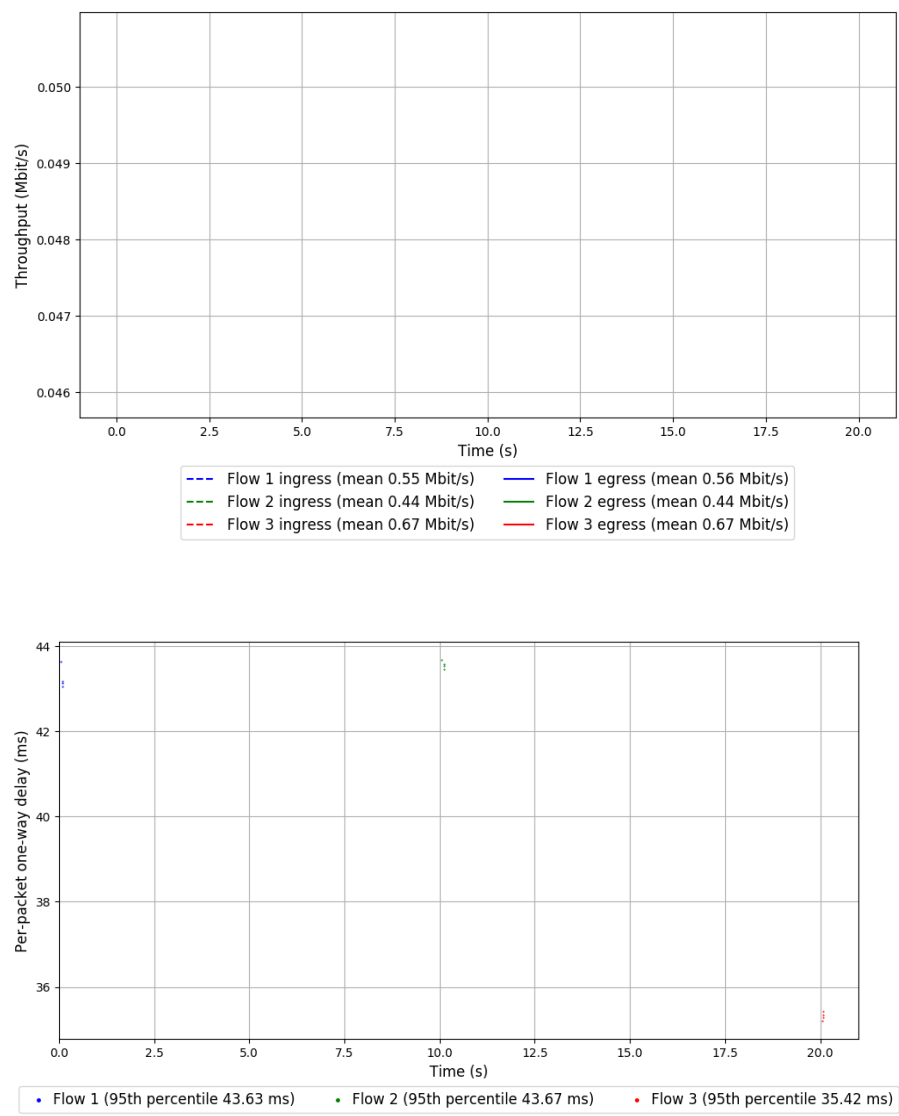
Start at: 2018-01-26 12:00:26

End at: 2018-01-26 12:00:56

Local clock offset: 3.37 ms

Remote clock offset: -11.692 ms

Run 5: Report of QUIC Cubic — Data Link



Run 6: Statistics of QUIC Cubic

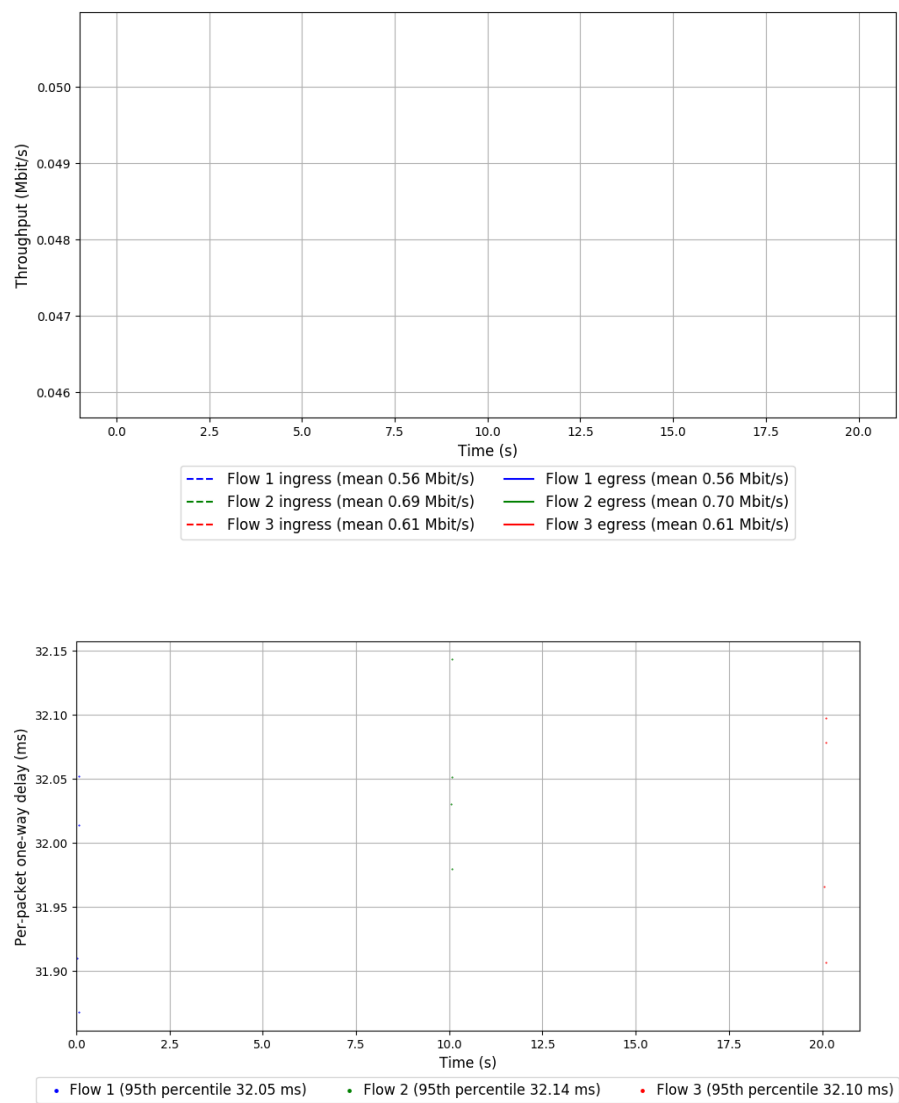
Start at: 2018-01-26 12:19:36

End at: 2018-01-26 12:20:06

Local clock offset: 0.089 ms

Remote clock offset: -10.607 ms

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

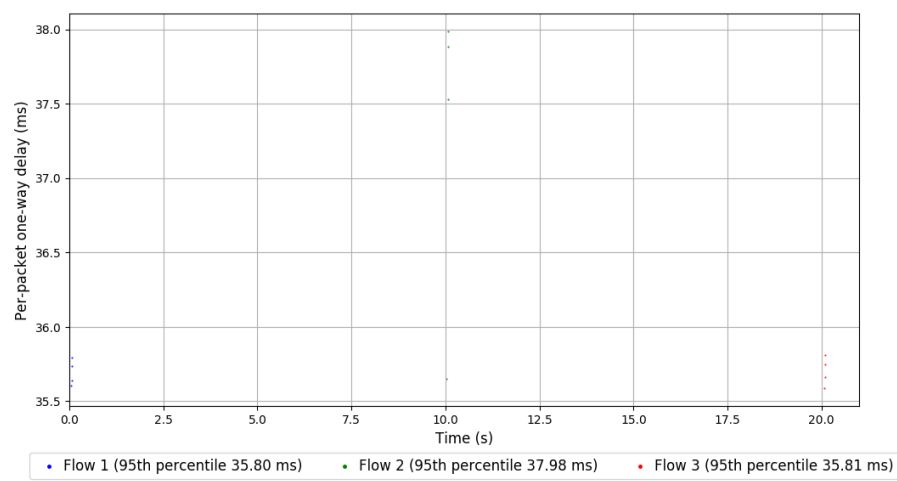
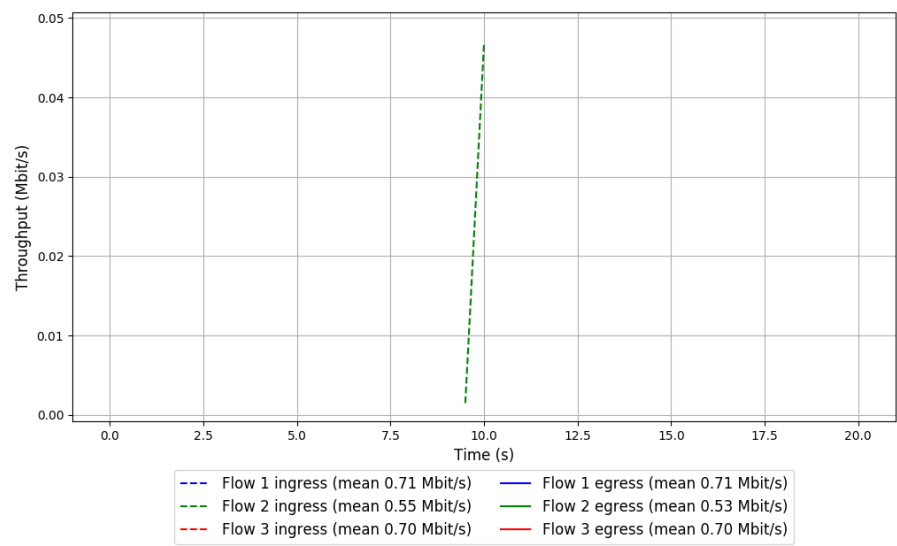
Start at: 2018-01-26 12:39:11

End at: 2018-01-26 12:39:41

Local clock offset: 1.652 ms

Remote clock offset: -11.732 ms

Run 7: Report of QUIC Cubic — Data Link



Run 8: Statistics of QUIC Cubic

Start at: 2018-01-26 12:58:55

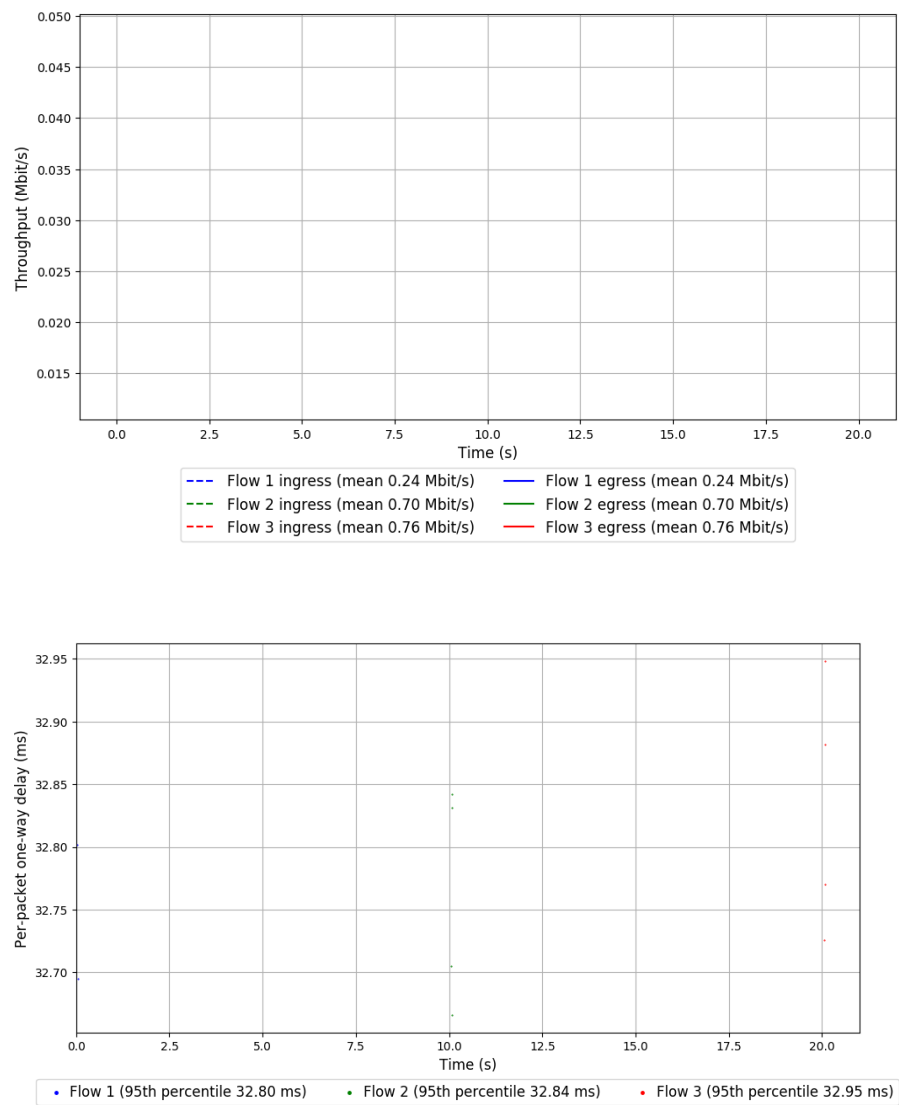
End at: 2018-01-26 12:59:25

Local clock offset: 1.568 ms

Remote clock offset: -12.475 ms



Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

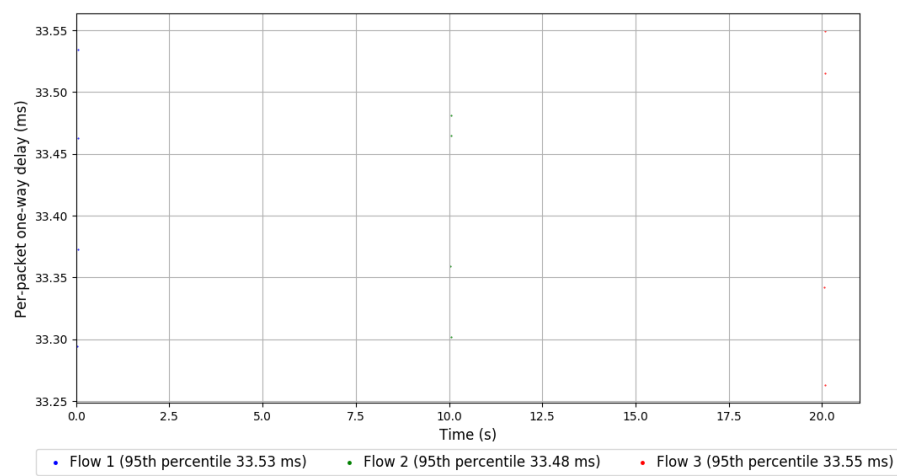
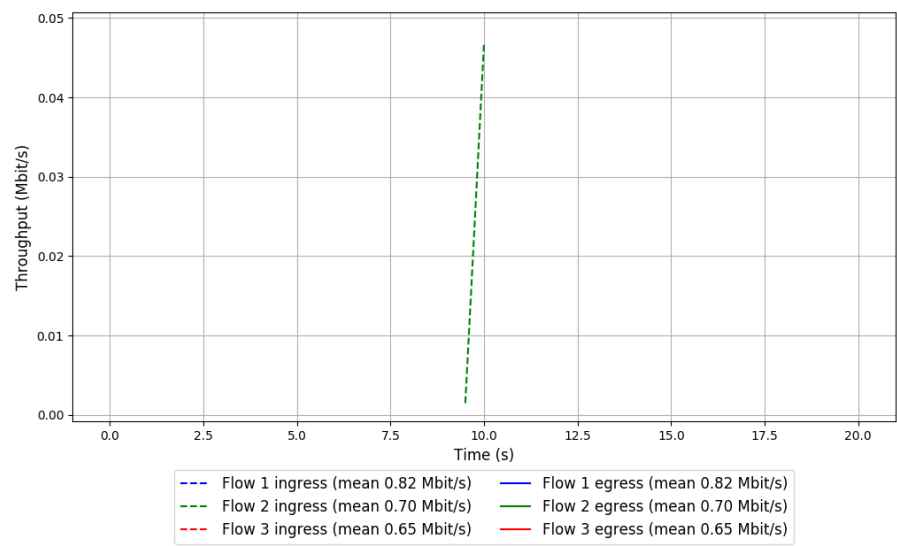
Start at: 2018-01-26 13:18:29

End at: 2018-01-26 13:18:59

Local clock offset: 4.483 ms

Remote clock offset: -11.229 ms

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

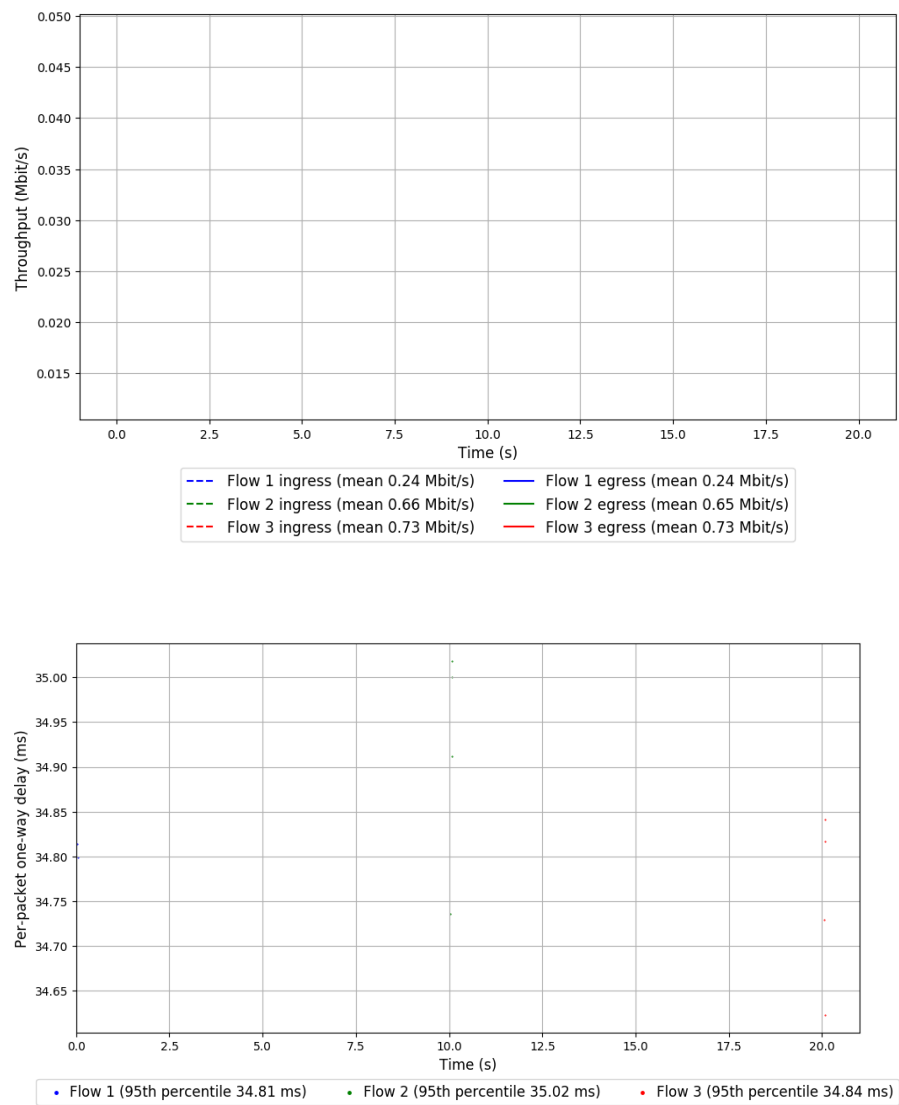
Start at: 2018-01-26 13:38:23

End at: 2018-01-26 13:38:53

Local clock offset: 3.255 ms

Remote clock offset: -14.5 ms

Run 10: Report of QUIC Cubic — Data Link



Run 1: Statistics of SCReAM

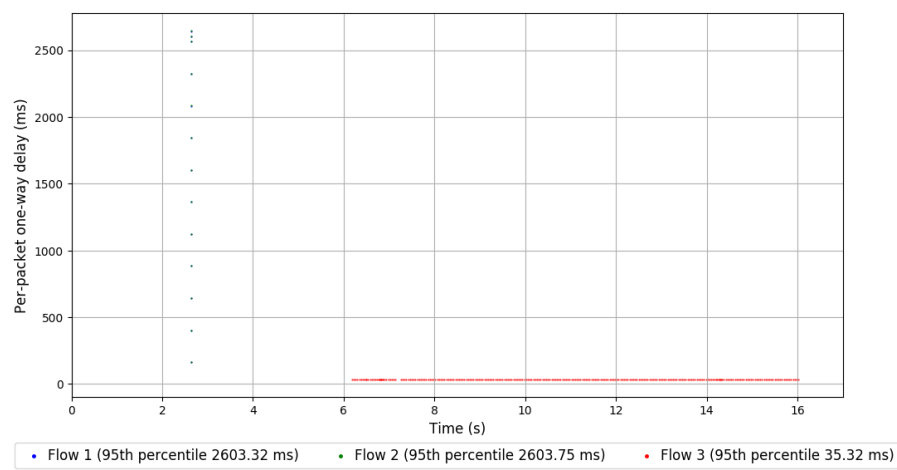
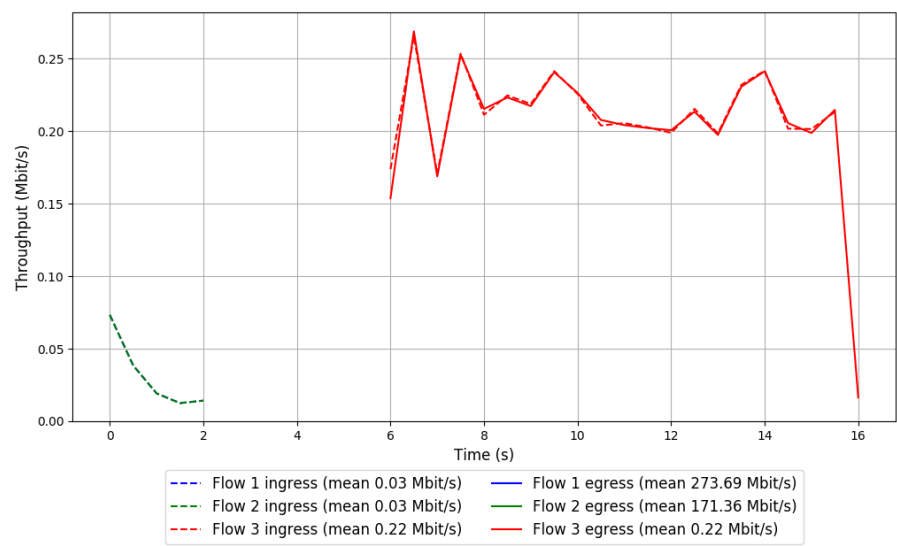
Start at: 2018-01-26 10:50:27

End at: 2018-01-26 10:50:57

Local clock offset: 4.326 ms

Remote clock offset: -19.953 ms

Run 1: Report of SReAM — Data Link



Run 2: Statistics of SCReAM

Start at: 2018-01-26 11:09:13

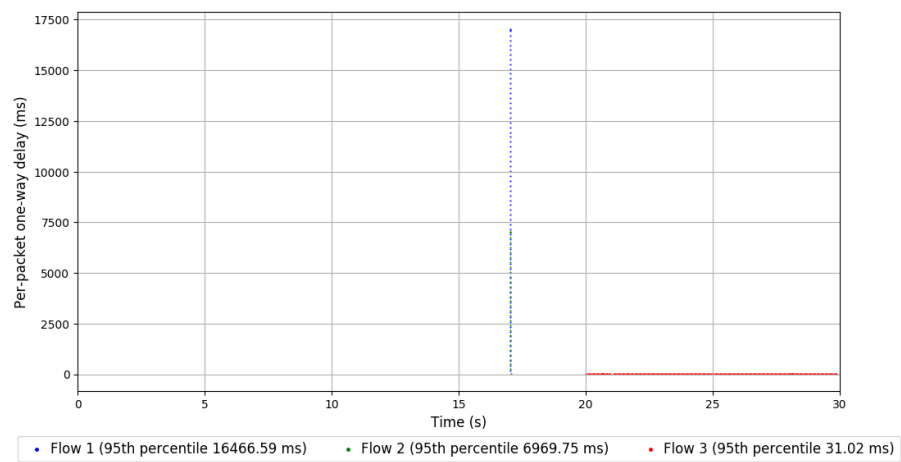
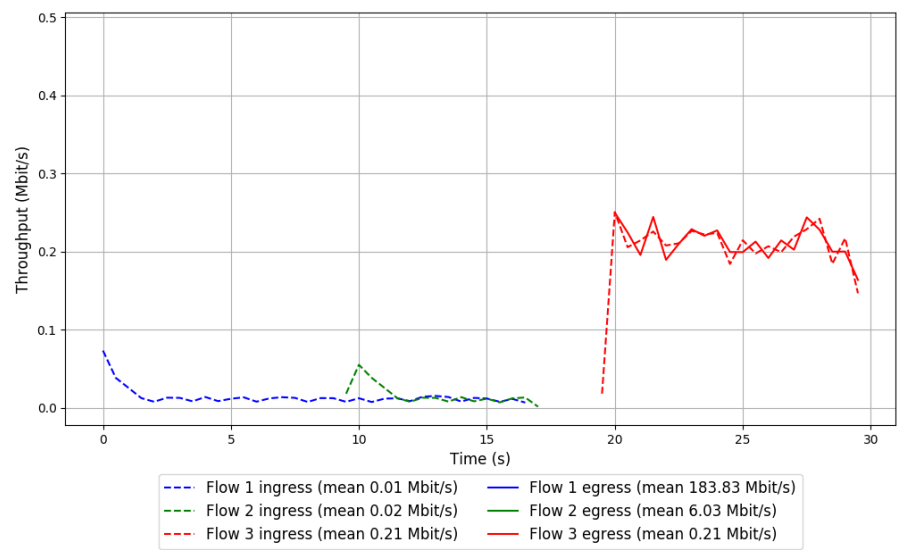
End at: 2018-01-26 11:09:43

Local clock offset: 2.386 ms

Remote clock offset: -15.956 ms



Run 2: Report of SReAM — Data Link



Run 3: Statistics of SCReAM

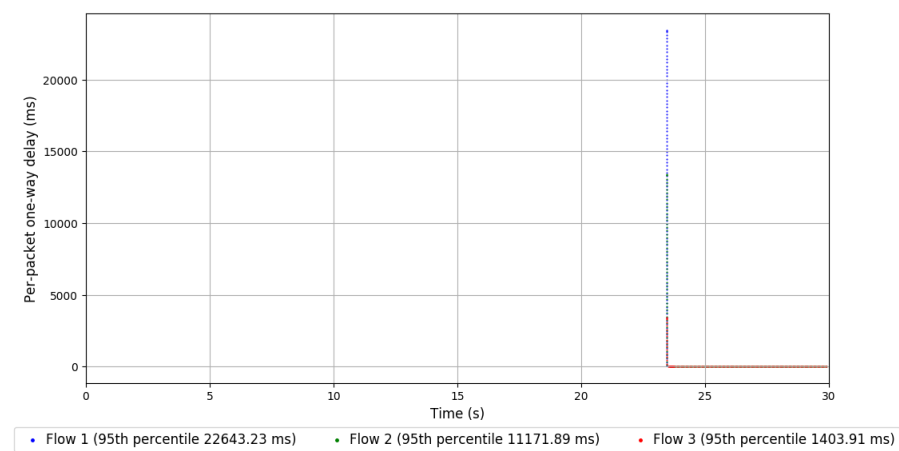
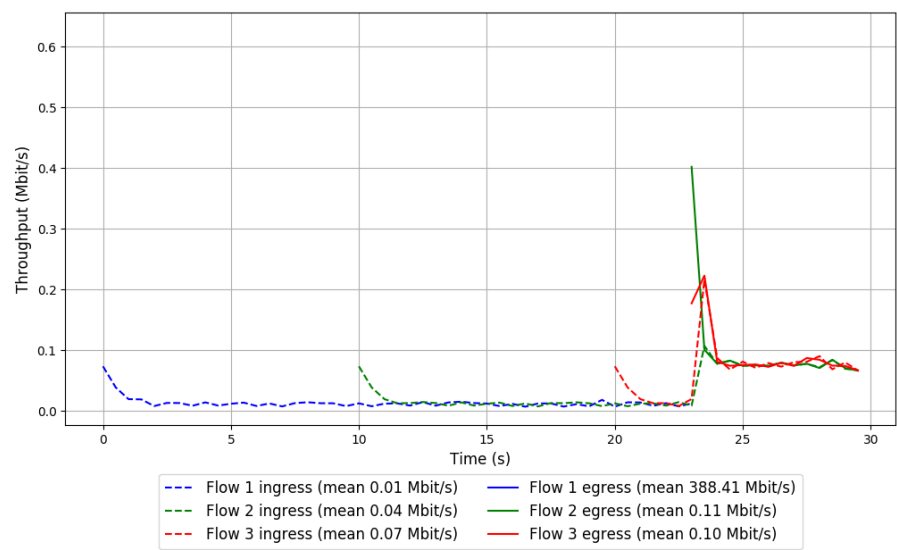
Start at: 2018-01-26 11:28:05

End at: 2018-01-26 11:28:35

Local clock offset: 1.931 ms

Remote clock offset: -14.427 ms

Run 3: Report of SReAM — Data Link



Run 4: Statistics of SCReAM

Start at: 2018-01-26 11:47:15

End at: 2018-01-26 11:47:45

Local clock offset: 1.386 ms

Remote clock offset: -14.384 ms

Run 4: Report of SReAM — Data Link

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Run 5: Statistics of SCReAM

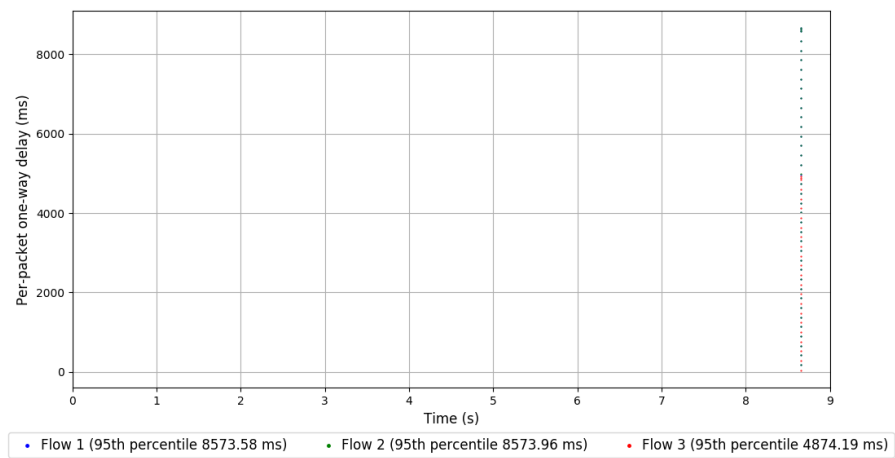
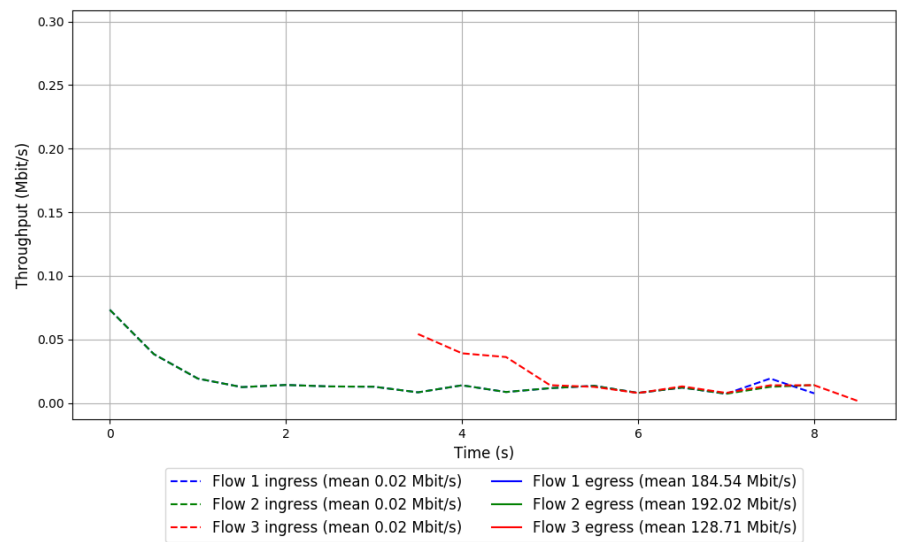
Start at: 2018-01-26 12:06:17

End at: 2018-01-26 12:06:47

Local clock offset: 1.648 ms

Remote clock offset: -12.681 ms

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SCReAM

Start at: 2018-01-26 12:25:34

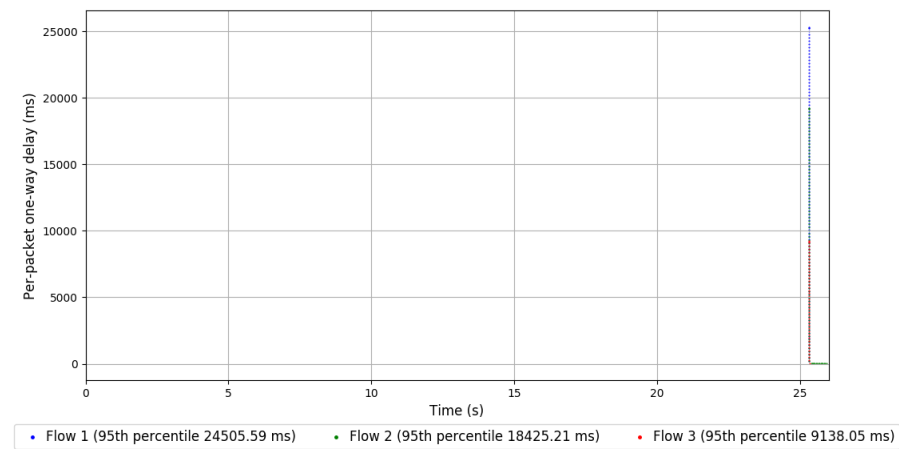
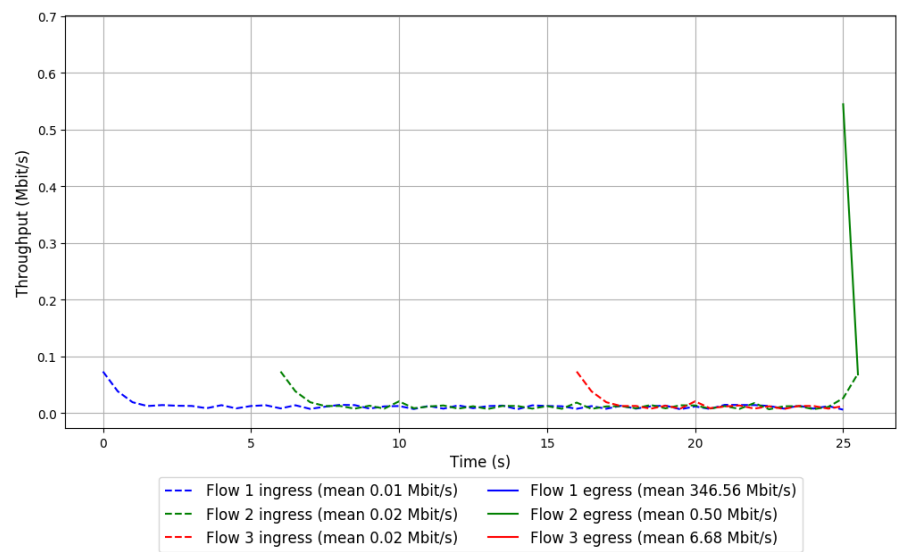
End at: 2018-01-26 12:26:04

Local clock offset: 4.419 ms

Remote clock offset: -14.596 ms



Run 6: Report of SReAM — Data Link

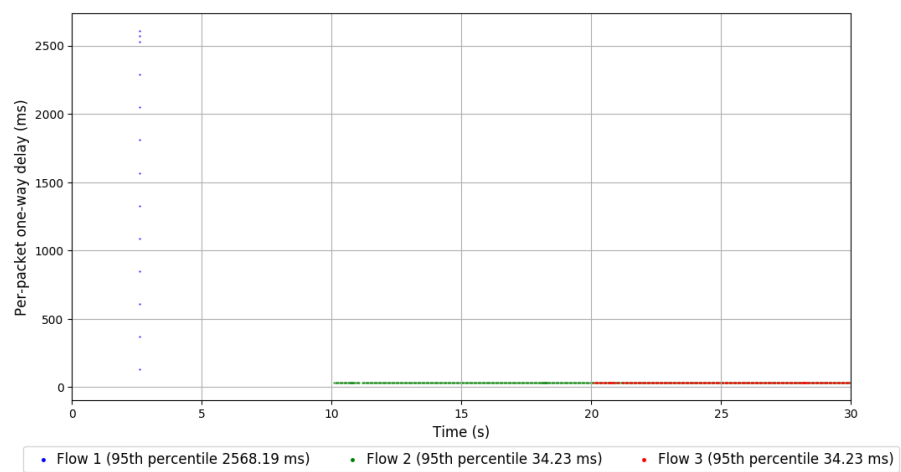
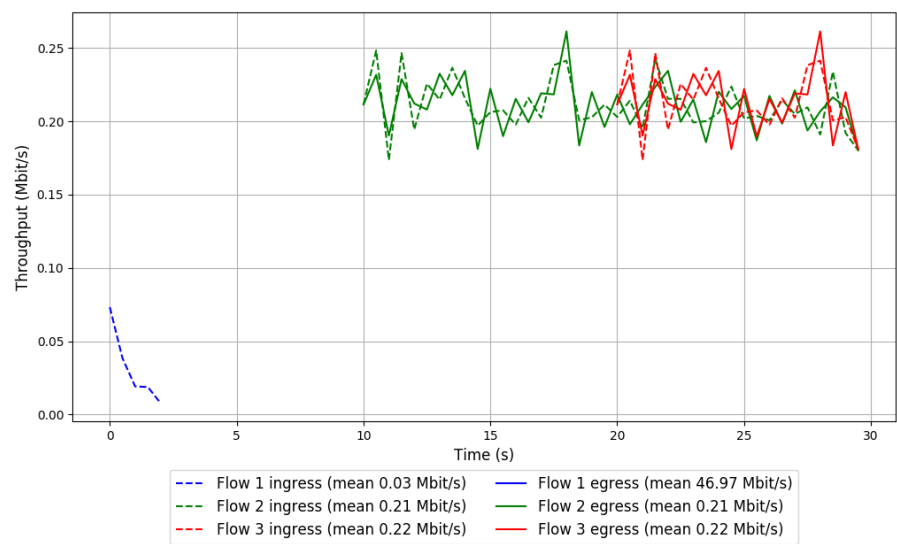


Run 7: Statistics of SReAM

Start at: 2018-01-26 12:45:14  
End at: 2018-01-26 12:45:44  
Local clock offset: 3.791 ms  
Remote clock offset: -12.282 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 0.24 Mbit/s  
95th percentile per-packet one-way delay: 34.258 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 46.97 Mbit/s  
95th percentile per-packet one-way delay: 2568.186 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 0.21 Mbit/s  
95th percentile per-packet one-way delay: 34.225 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.22 Mbit/s  
95th percentile per-packet one-way delay: 34.229 ms  
Loss rate: 0.00%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SCReAM

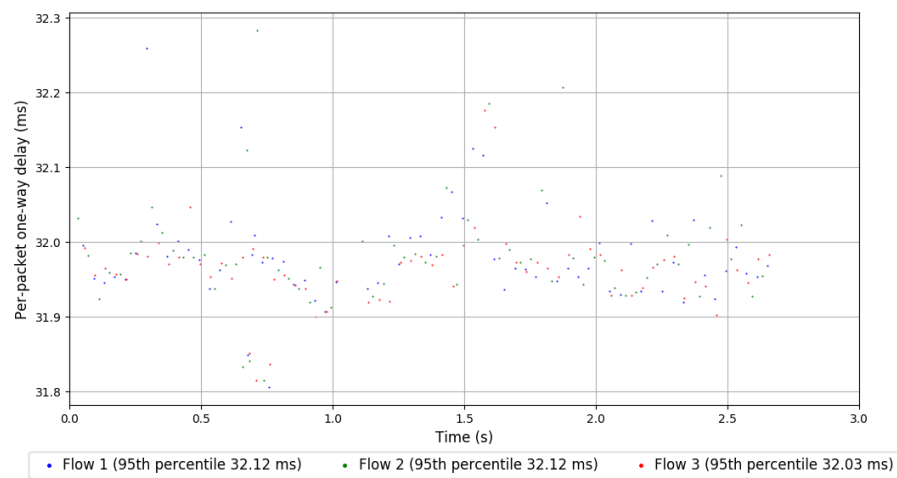
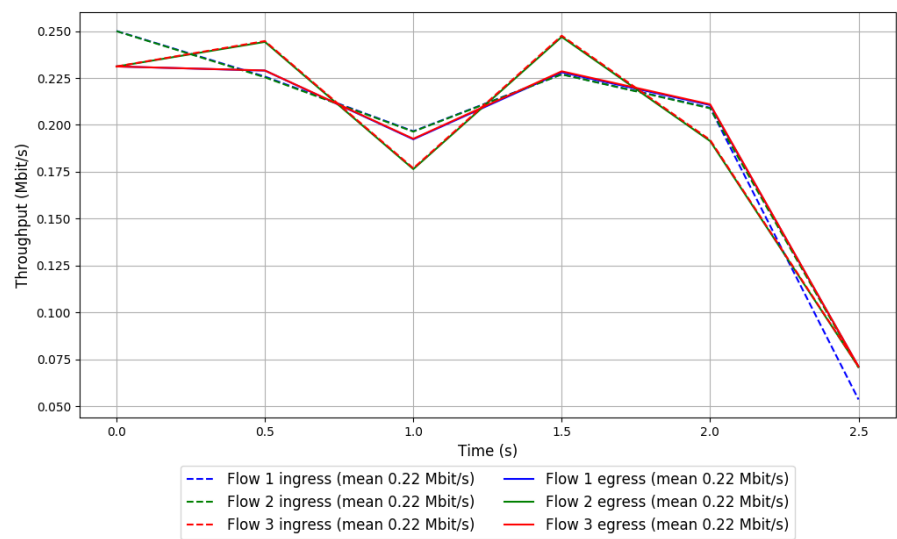
Start at: 2018-01-26 13:04:55

End at: 2018-01-26 13:05:25

Local clock offset: 0.895 ms

Remote clock offset: -12.215 ms

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SCReAM

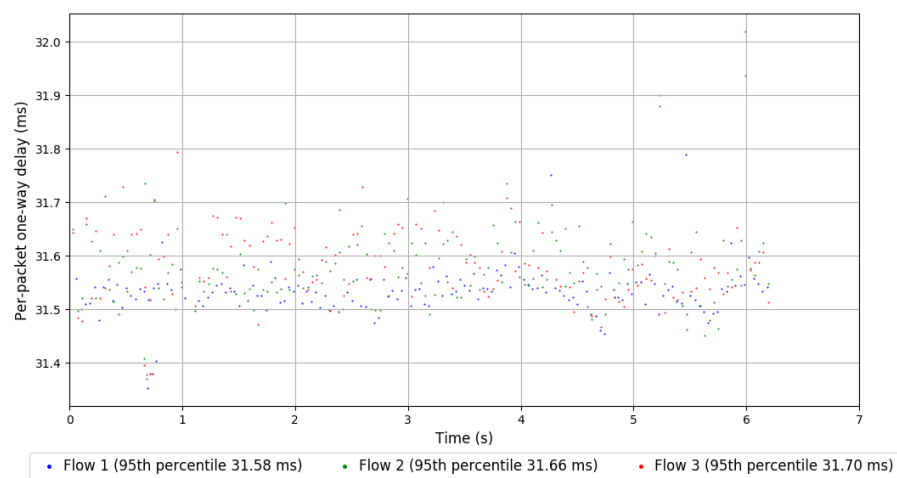
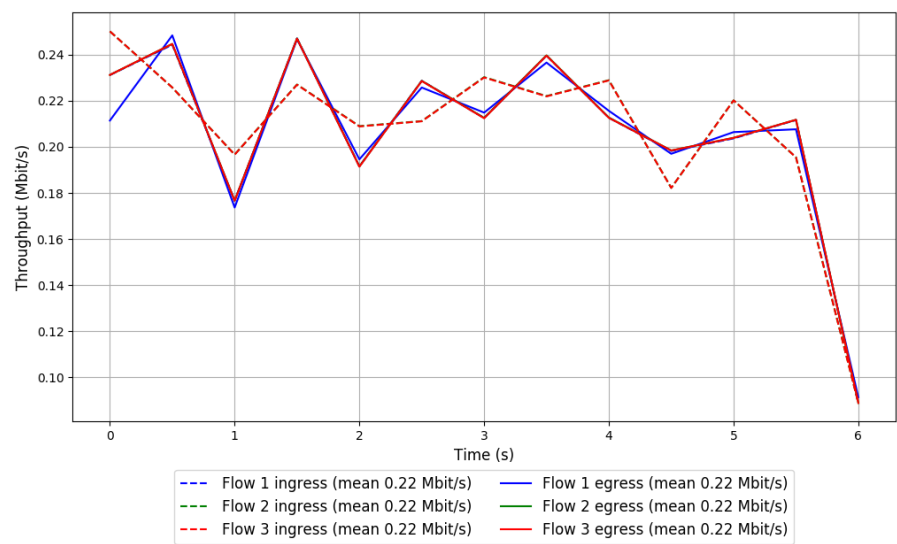
Start at: 2018-01-26 13:24:36

End at: 2018-01-26 13:25:06

Local clock offset: 1.783 ms

Remote clock offset: -12.497 ms

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-01-26 13:44:20

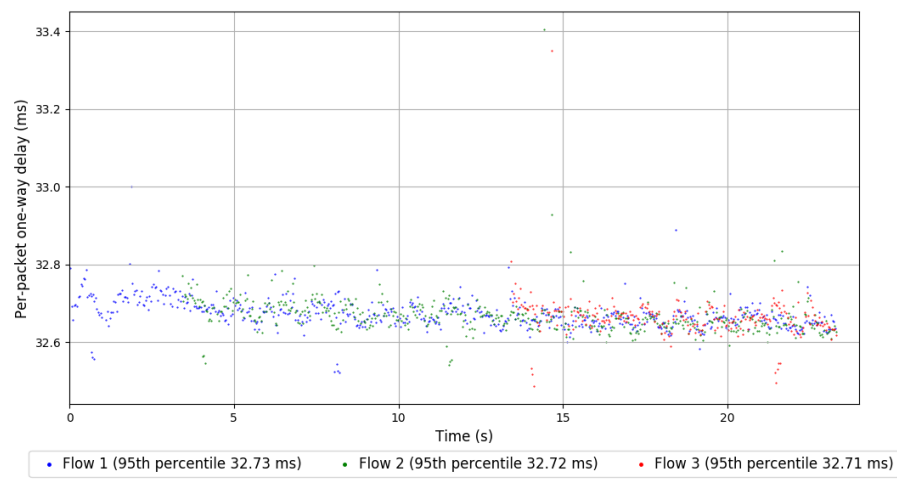
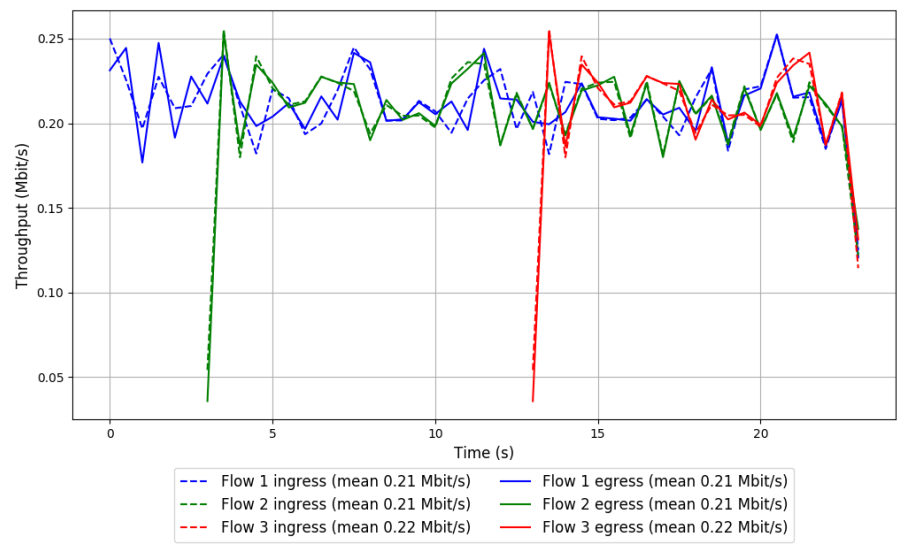
End at: 2018-01-26 13:44:50

Local clock offset: 2.47 ms

Remote clock offset: -13.751 ms



Run 10: Report of SReAM — Data Link

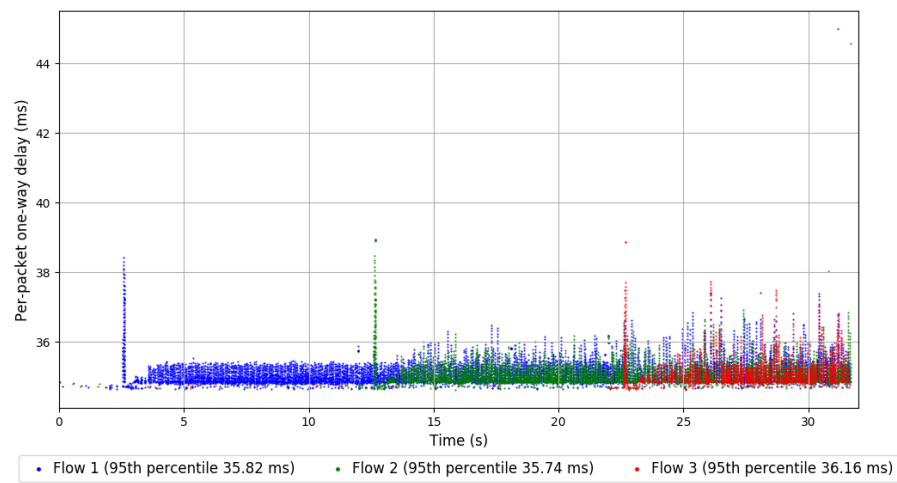
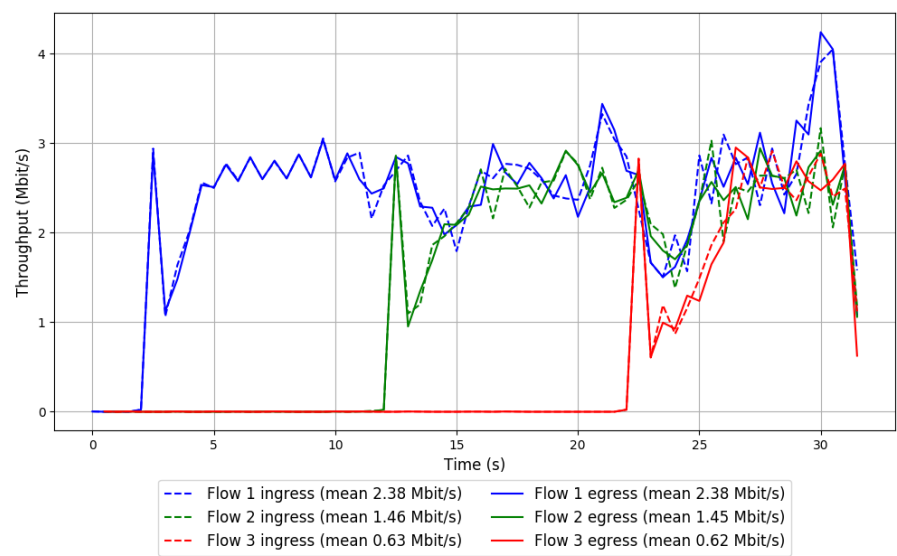


Run 1: Statistics of WebRTC media

Start at: 2018-01-26 10:45:44  
End at: 2018-01-26 10:46:14  
Local clock offset: 3.153 ms  
Remote clock offset: -20.593 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 35.844 ms  
Loss rate: 0.45%  
-- Flow 1:  
Average throughput: 2.38 Mbit/s  
95th percentile per-packet one-way delay: 35.818 ms  
Loss rate: 0.43%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 35.742 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 36.157 ms  
Loss rate: 1.27%

Run 1: Report of WebRTC media — Data Link

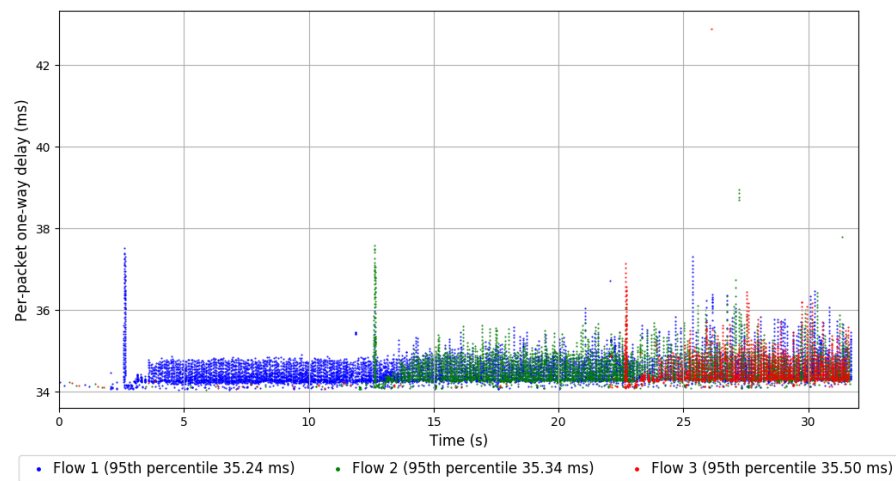
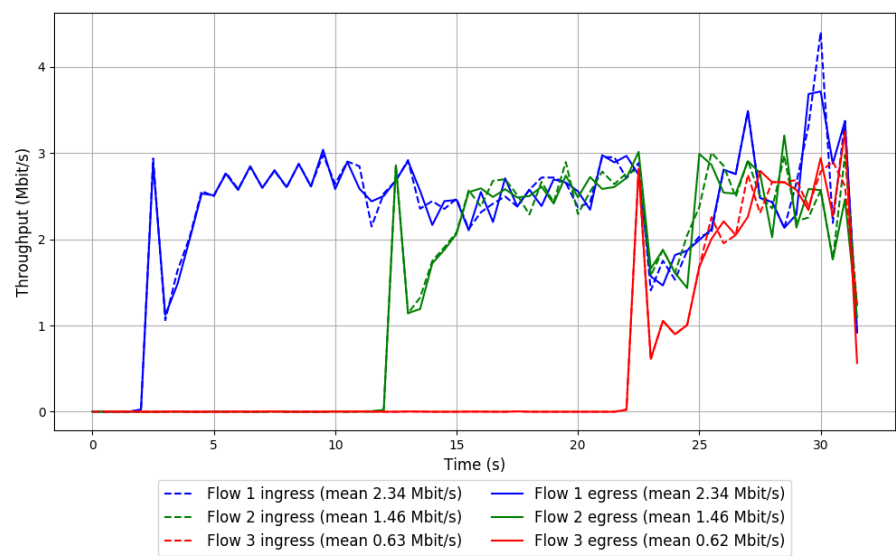


Run 2: Statistics of WebRTC media

Start at: 2018-01-26 11:04:32  
End at: 2018-01-26 11:05:02  
Local clock offset: 0.352 ms  
Remote clock offset: -21.635 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.39 Mbit/s  
95th percentile per-packet one-way delay: 35.311 ms  
Loss rate: 0.47%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 35.238 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 35.342 ms  
Loss rate: 0.70%  
-- Flow 3:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 35.502 ms  
Loss rate: 1.70%

Run 2: Report of WebRTC media — Data Link

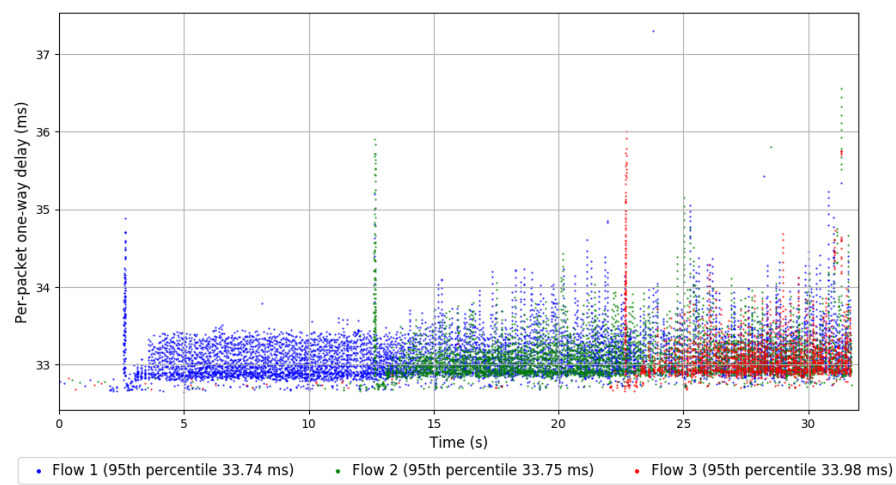
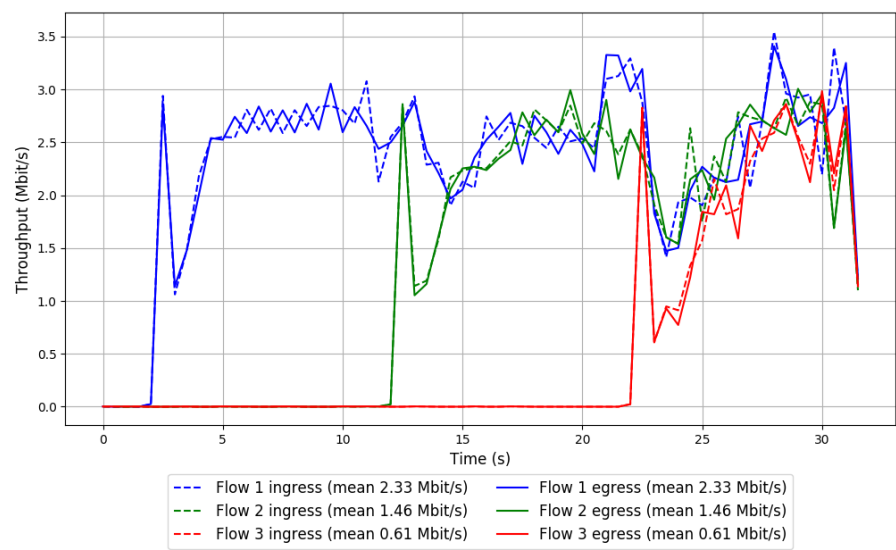


Run 3: Statistics of WebRTC media

Start at: 2018-01-26 11:23:27  
End at: 2018-01-26 11:23:57  
Local clock offset: 4.707 ms  
Remote clock offset: -14.808 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 33.759 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.33 Mbit/s  
95th percentile per-packet one-way delay: 33.736 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 33.746 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 33.975 ms  
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link



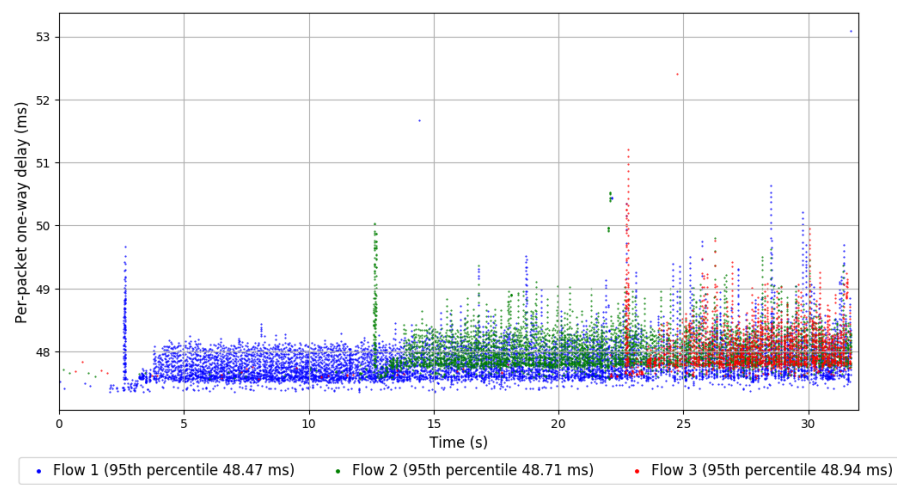
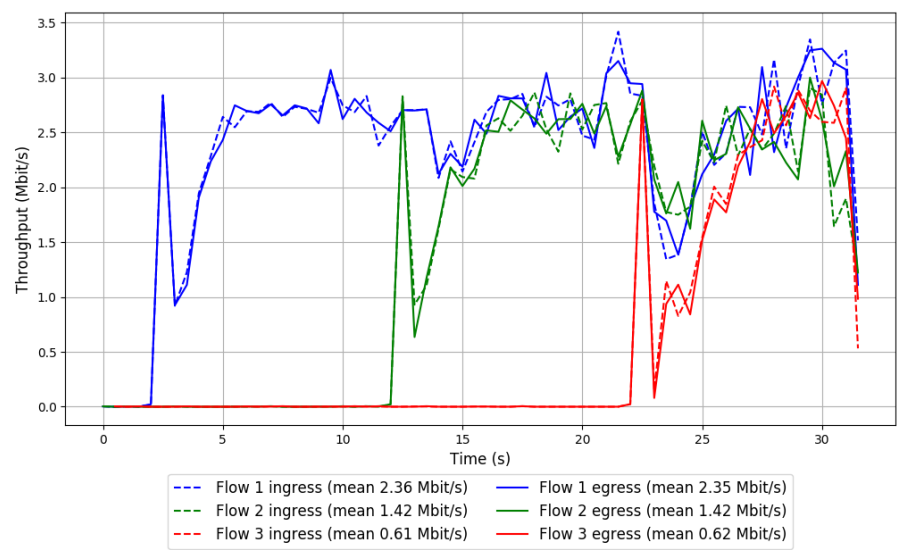
Run 4: Statistics of WebRTC media

Start at: 2018-01-26 11:42:24  
End at: 2018-01-26 11:42:54  
Local clock offset: 3.745 ms  
Remote clock offset: -13.612 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.37 Mbit/s  
95th percentile per-packet one-way delay: 48.650 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 2.35 Mbit/s  
95th percentile per-packet one-way delay: 48.467 ms  
Loss rate: 0.39%  
-- Flow 2:  
Average throughput: 1.42 Mbit/s  
95th percentile per-packet one-way delay: 48.706 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.62 Mbit/s  
95th percentile per-packet one-way delay: 48.938 ms  
Loss rate: 0.01%



Run 4: Report of WebRTC media — Data Link

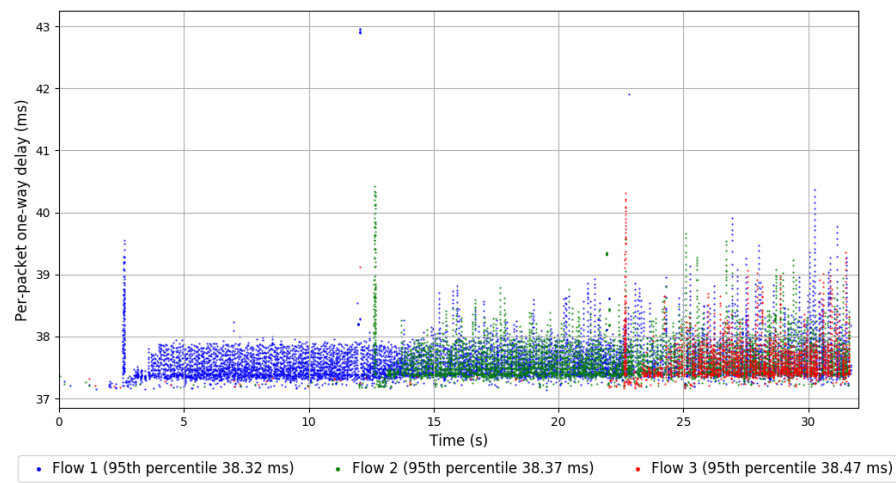
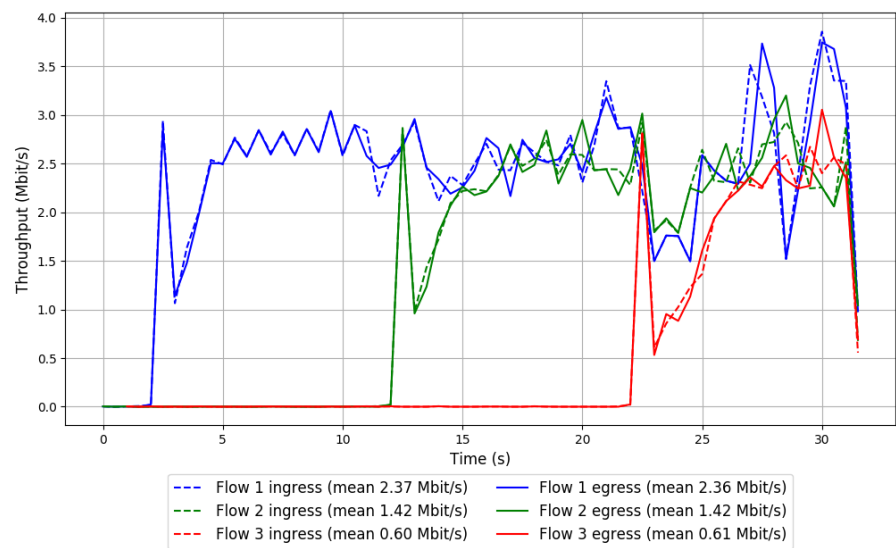


Run 5: Statistics of WebRTC media

Start at: 2018-01-26 12:01:32  
End at: 2018-01-26 12:02:02  
Local clock offset: 5.029 ms  
Remote clock offset: -11.989 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.35 Mbit/s  
95th percentile per-packet one-way delay: 38.349 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 2.36 Mbit/s  
95th percentile per-packet one-way delay: 38.316 ms  
Loss rate: 0.42%  
-- Flow 2:  
Average throughput: 1.42 Mbit/s  
95th percentile per-packet one-way delay: 38.368 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.61 Mbit/s  
95th percentile per-packet one-way delay: 38.473 ms  
Loss rate: 0.01%

Run 5: Report of WebRTC media — Data Link

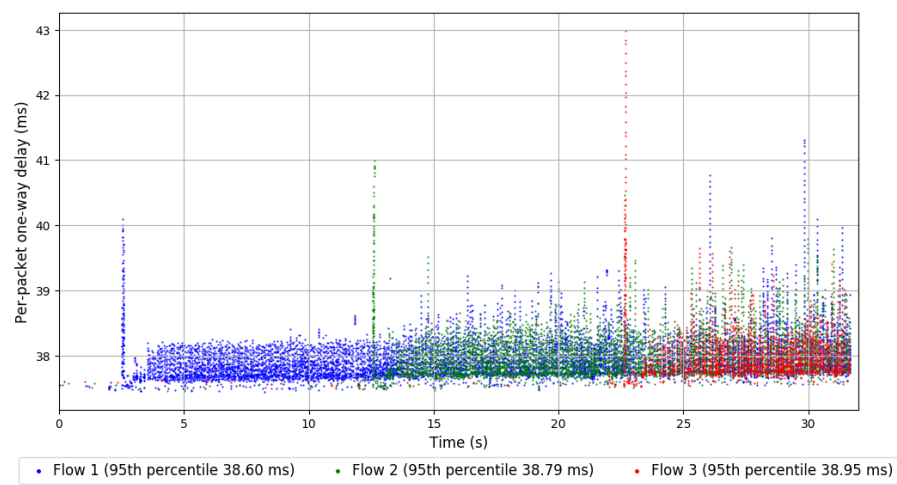
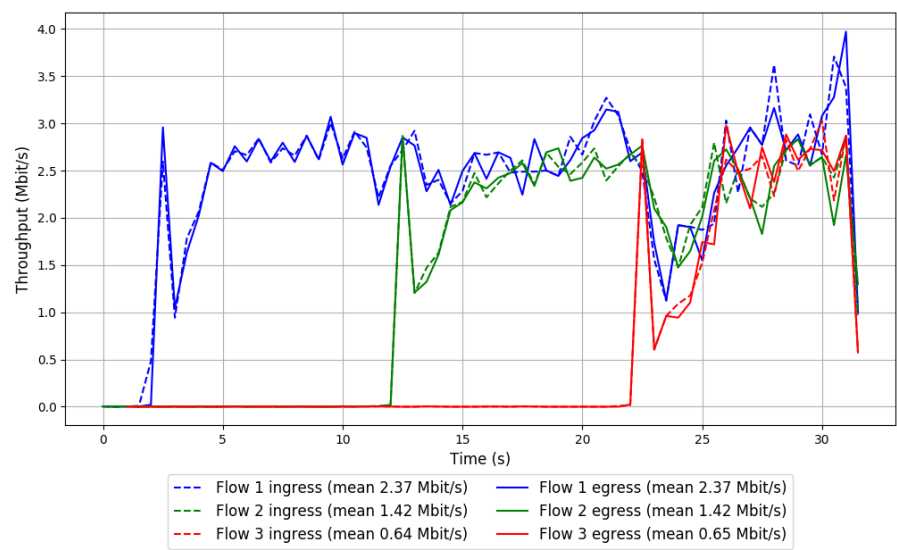


Run 6: Statistics of WebRTC media

Start at: 2018-01-26 12:20:41  
End at: 2018-01-26 12:21:11  
Local clock offset: 5.034 ms  
Remote clock offset: -11.092 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.41 Mbit/s  
95th percentile per-packet one-way delay: 38.720 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 38.604 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.42 Mbit/s  
95th percentile per-packet one-way delay: 38.788 ms  
Loss rate: 0.39%  
-- Flow 3:  
Average throughput: 0.65 Mbit/s  
95th percentile per-packet one-way delay: 38.954 ms  
Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

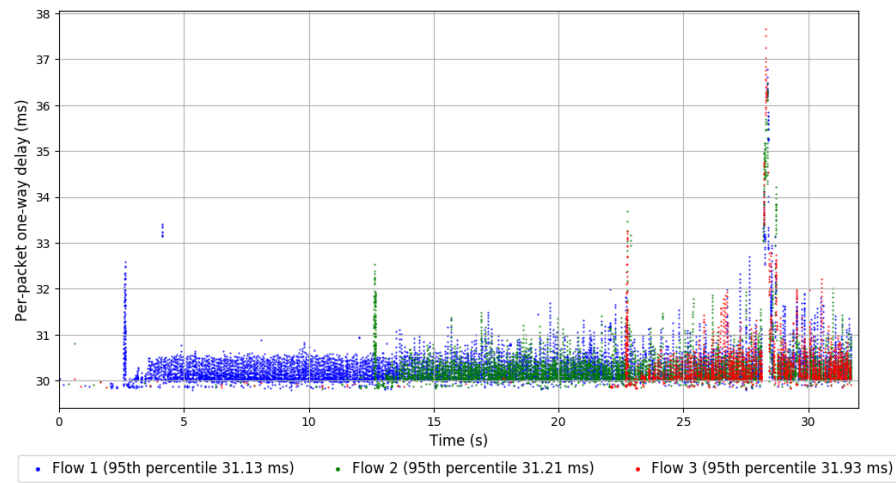
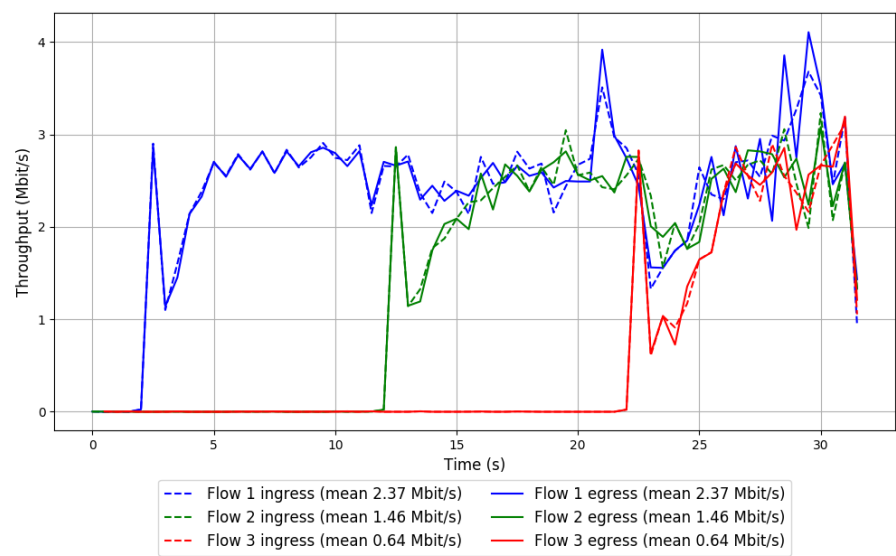


Run 7: Statistics of WebRTC media

Start at: 2018-01-26 12:40:16  
End at: 2018-01-26 12:40:46  
Local clock offset: 1.797 ms  
Remote clock offset: -10.307 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.44 Mbit/s  
95th percentile per-packet one-way delay: 31.256 ms  
Loss rate: 0.00%  
-- Flow 1:  
Average throughput: 2.37 Mbit/s  
95th percentile per-packet one-way delay: 31.128 ms  
Loss rate: 0.00%  
-- Flow 2:  
Average throughput: 1.46 Mbit/s  
95th percentile per-packet one-way delay: 31.215 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 31.925 ms  
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-01-26 13:00:00

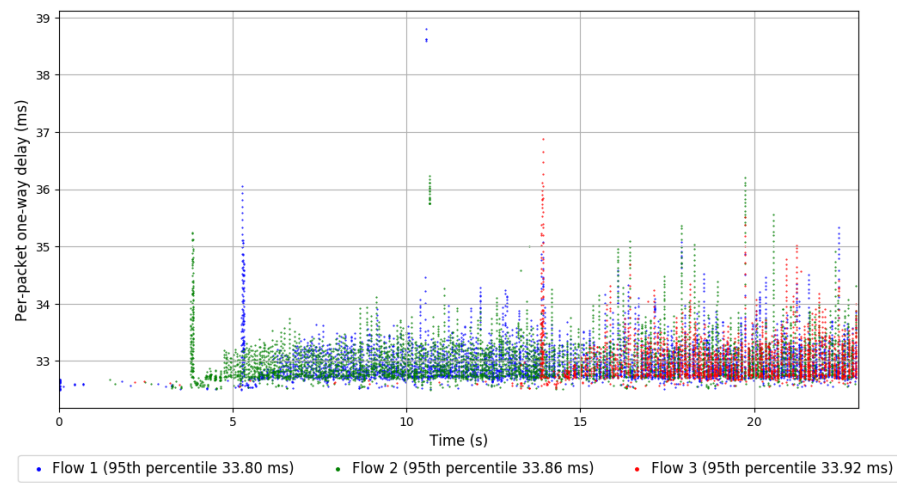
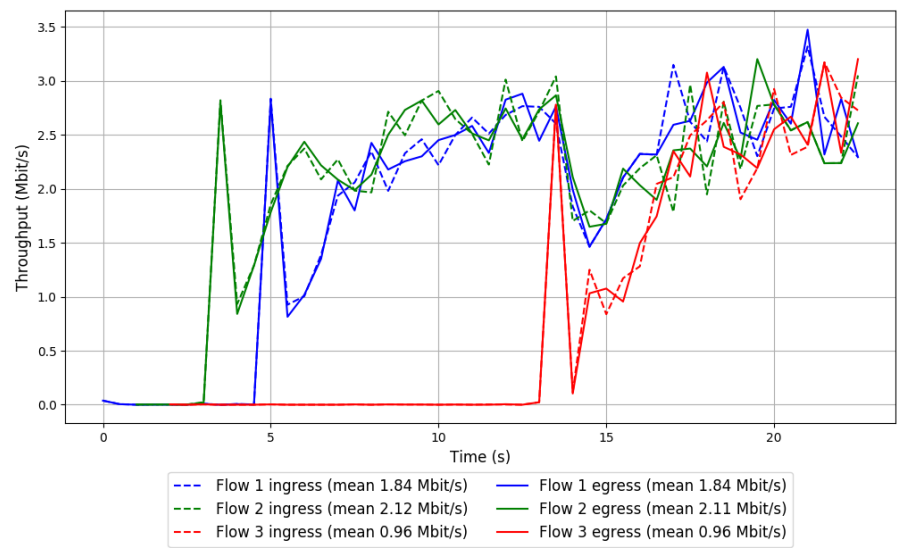
End at: 2018-01-26 13:00:30

Local clock offset: 3.161 ms

Remote clock offset: -10.75 ms



Run 8: Report of WebRTC media — Data Link

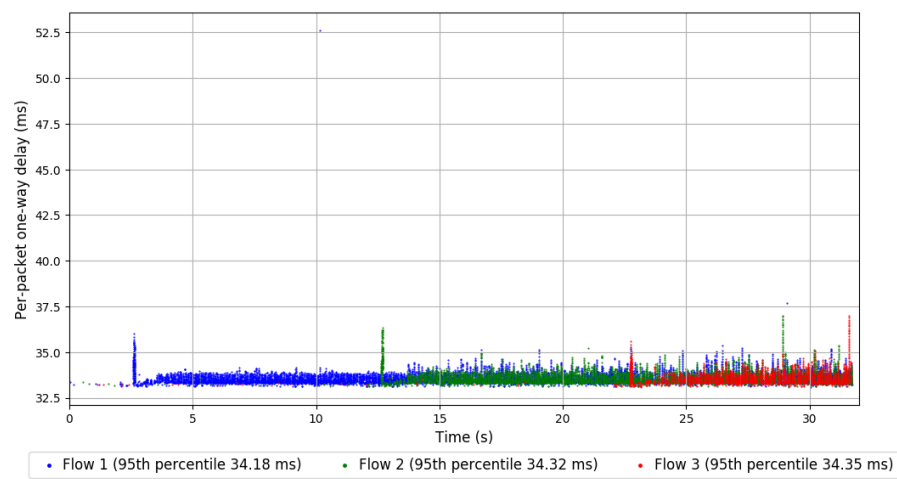
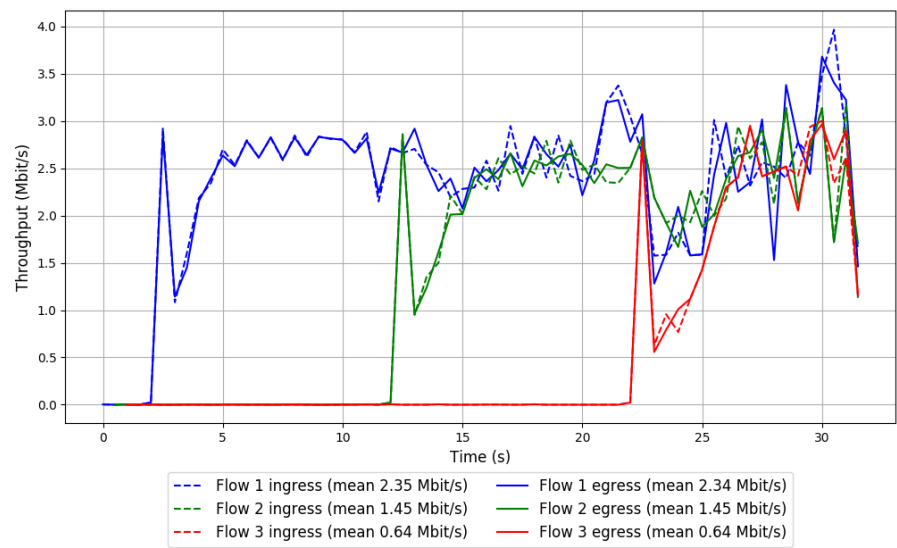


Run 9: Statistics of WebRTC media

Start at: 2018-01-26 13:19:35  
End at: 2018-01-26 13:20:05  
Local clock offset: 3.382 ms  
Remote clock offset: -12.314 ms

# Below is generated by plot.py at 2018-01-26 17:13:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 4.39 Mbit/s  
95th percentile per-packet one-way delay: 34.249 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 2.34 Mbit/s  
95th percentile per-packet one-way delay: 34.181 ms  
Loss rate: 0.22%  
-- Flow 2:  
Average throughput: 1.45 Mbit/s  
95th percentile per-packet one-way delay: 34.318 ms  
Loss rate: 0.00%  
-- Flow 3:  
Average throughput: 0.64 Mbit/s  
95th percentile per-packet one-way delay: 34.347 ms  
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

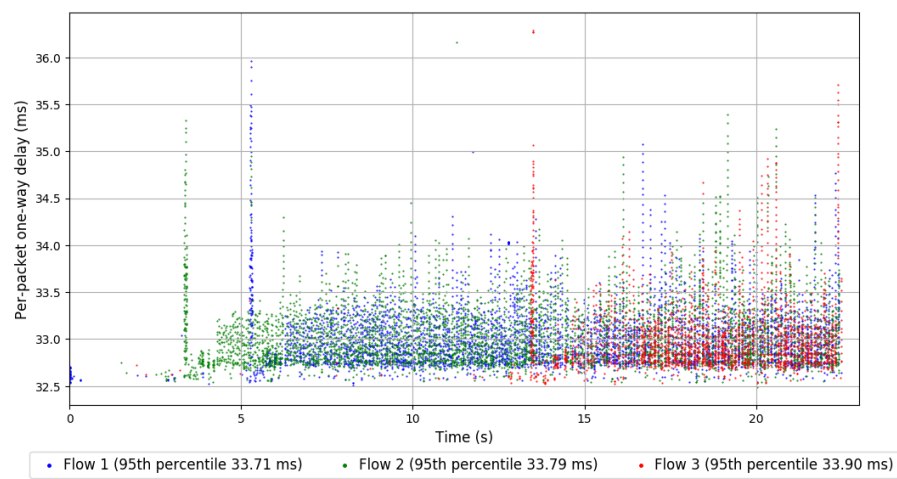
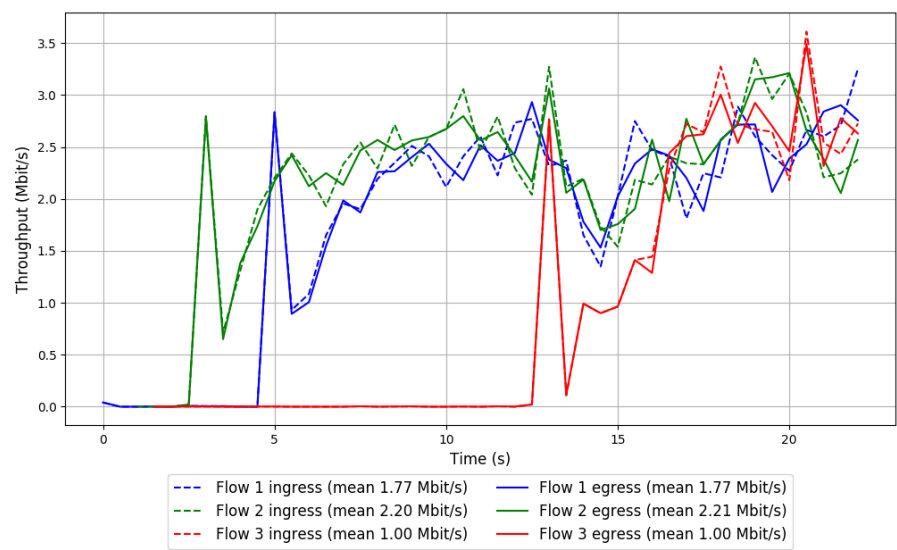
Start at: 2018-01-26 13:39:29

End at: 2018-01-26 13:39:59

Local clock offset: 2.123 ms

Remote clock offset: -13.662 ms

Run 10: Report of WebRTC media — Data Link

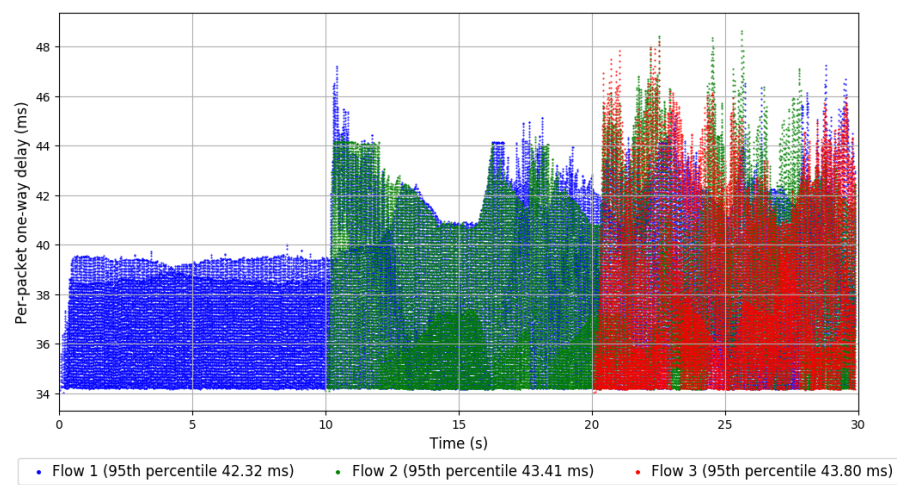
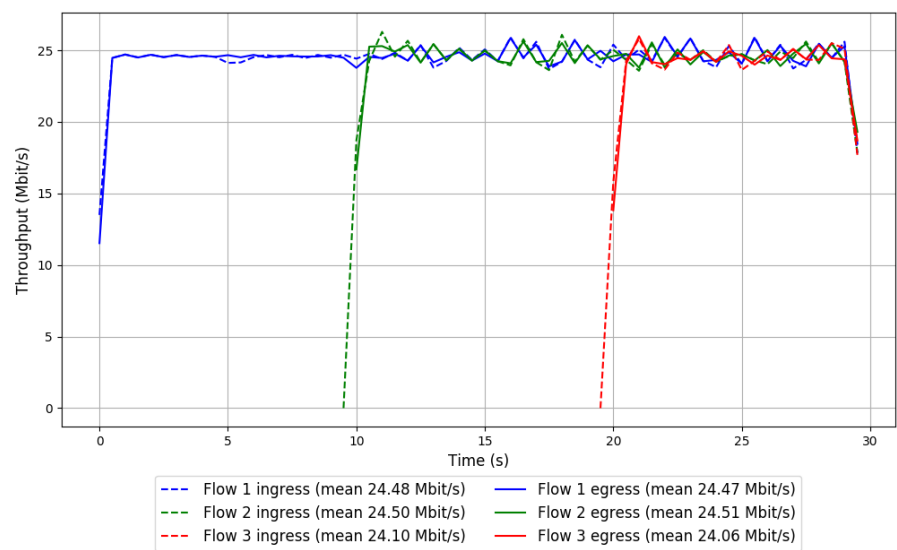


Run 1: Statistics of Sprout

Start at: 2018-01-26 10:39:53  
End at: 2018-01-26 10:40:23  
Local clock offset: 3.275 ms  
Remote clock offset: -19.751 ms

# Below is generated by plot.py at 2018-01-26 17:14:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.73 Mbit/s  
95th percentile per-packet one-way delay: 42.970 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 24.47 Mbit/s  
95th percentile per-packet one-way delay: 42.319 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 24.51 Mbit/s  
95th percentile per-packet one-way delay: 43.408 ms  
Loss rate: 0.05%  
-- Flow 3:  
Average throughput: 24.06 Mbit/s  
95th percentile per-packet one-way delay: 43.804 ms  
Loss rate: 0.36%

Run 1: Report of Sprout — Data Link



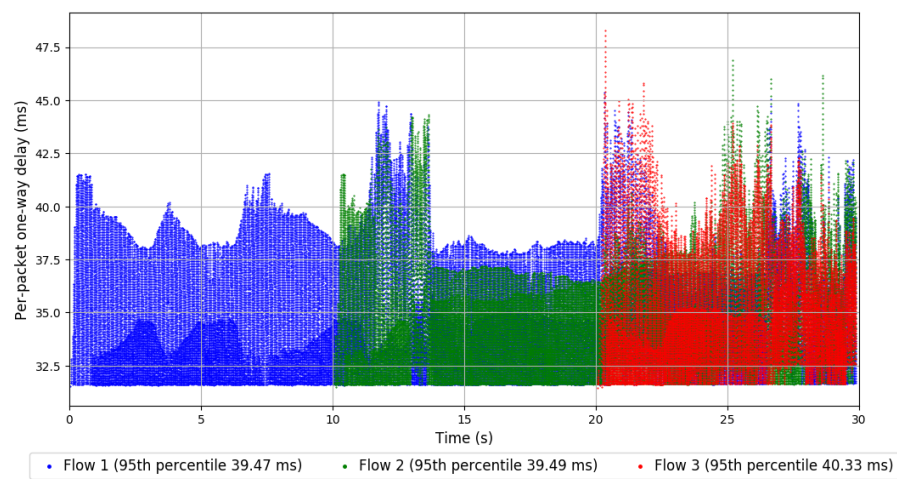
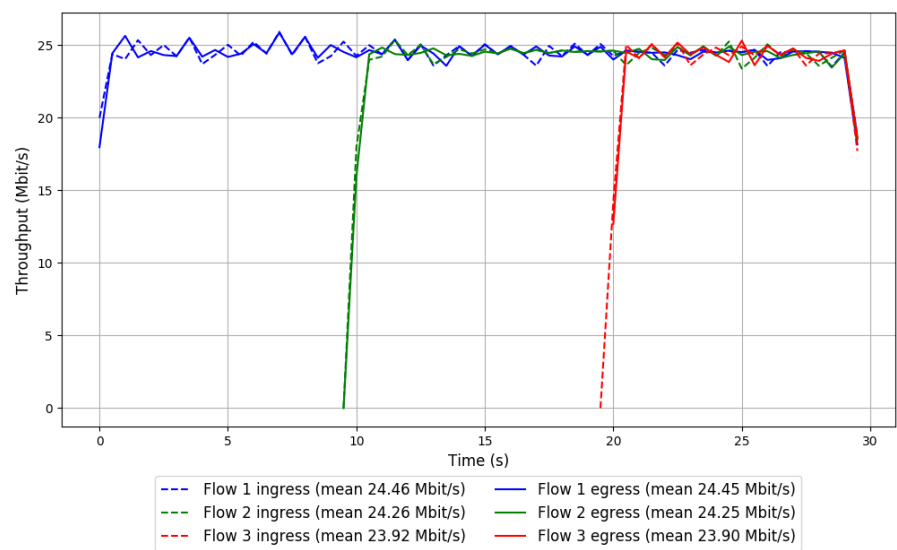
## Run 2: Statistics of Sprout

Start at: 2018-01-26 10:58:44  
End at: 2018-01-26 10:59:14  
Local clock offset: 1.684 ms  
Remote clock offset: -18.416 ms

```
# Below is generated by plot.py at 2018-01-26 17:14:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 48.49 Mbit/s
95th percentile per-packet one-way delay: 39.621 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 24.45 Mbit/s
95th percentile per-packet one-way delay: 39.472 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 24.25 Mbit/s
95th percentile per-packet one-way delay: 39.490 ms
Loss rate: 0.20%
-- Flow 3:
Average throughput: 23.90 Mbit/s
95th percentile per-packet one-way delay: 40.333 ms
Loss rate: 0.23%
```



Run 2: Report of Sprout — Data Link

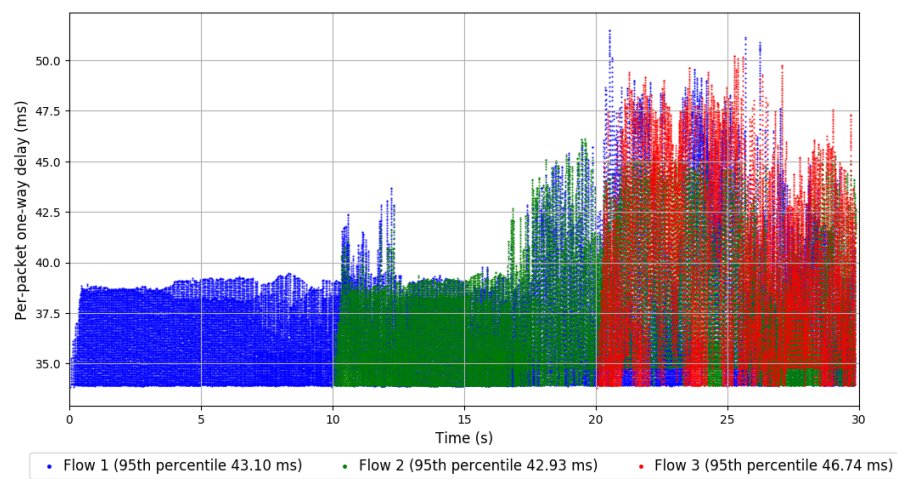
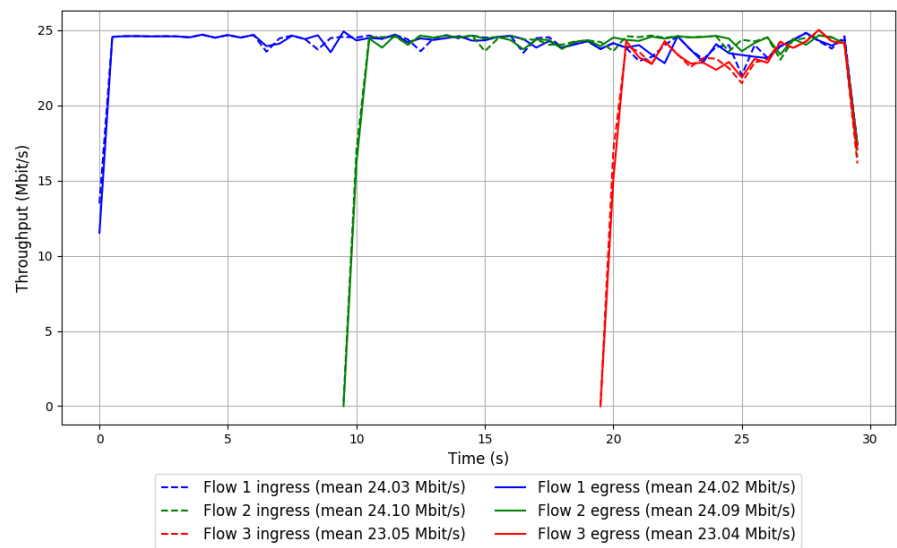


### Run 3: Statistics of Sprout

Start at: 2018-01-26 11:17:36  
End at: 2018-01-26 11:18:06  
Local clock offset: 5.007 ms  
Remote clock offset: -15.858 ms

```
# Below is generated by plot.py at 2018-01-26 17:14:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 47.68 Mbit/s
95th percentile per-packet one-way delay: 44.193 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 24.02 Mbit/s
95th percentile per-packet one-way delay: 43.098 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 24.09 Mbit/s
95th percentile per-packet one-way delay: 42.930 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 23.04 Mbit/s
95th percentile per-packet one-way delay: 46.745 ms
Loss rate: 0.22%
```

Run 3: Report of Sprout — Data Link

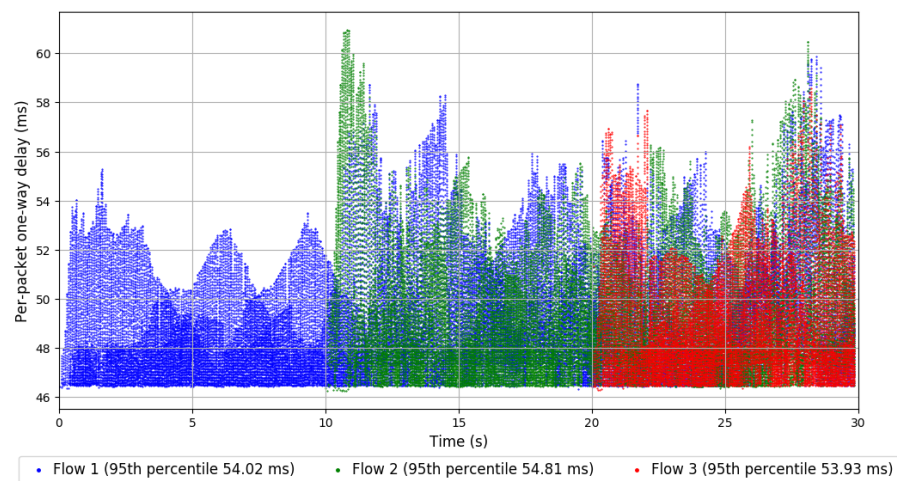
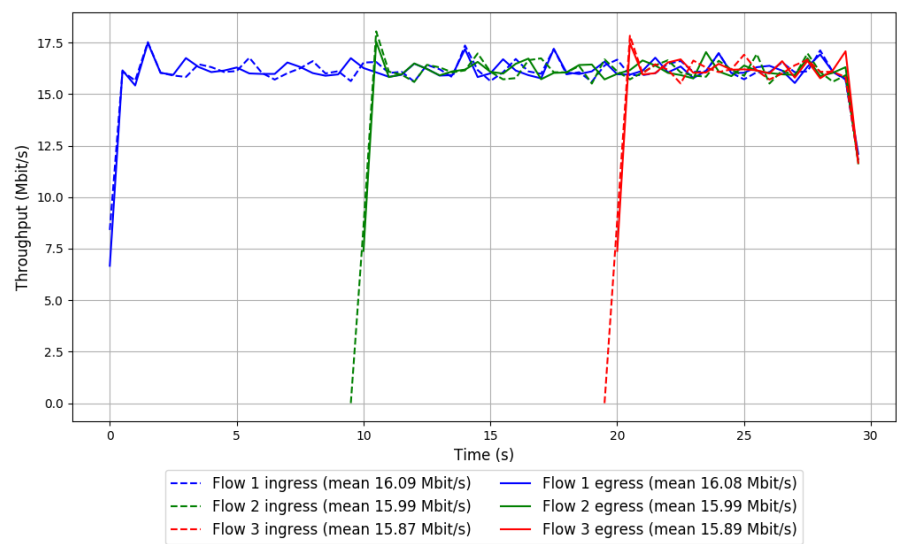


#### Run 4: Statistics of Sprout

Start at: 2018-01-26 11:36:32  
End at: 2018-01-26 11:37:03  
Local clock offset: 1.685 ms  
Remote clock offset: -14.589 ms

```
# Below is generated by plot.py at 2018-01-26 17:14:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.97 Mbit/s
95th percentile per-packet one-way delay: 54.262 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 54.018 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 15.99 Mbit/s
95th percentile per-packet one-way delay: 54.806 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 15.89 Mbit/s
95th percentile per-packet one-way delay: 53.926 ms
Loss rate: 0.24%
```

Run 4: Report of Sprout — Data Link

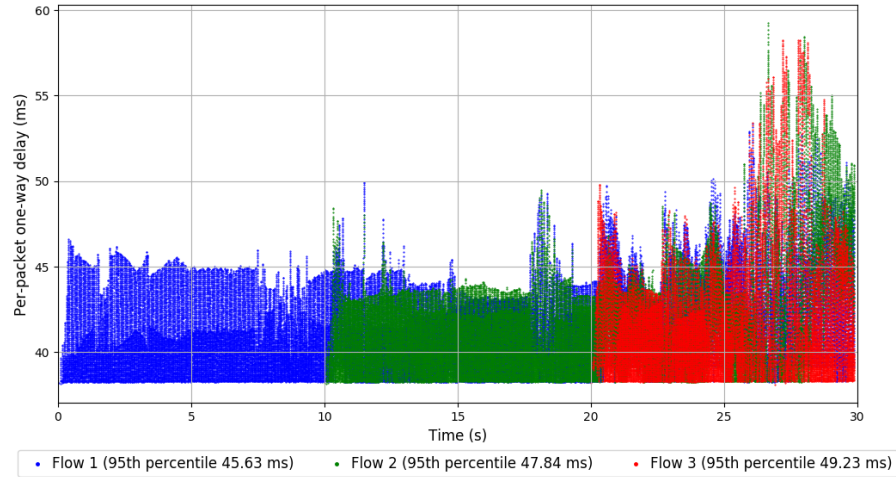
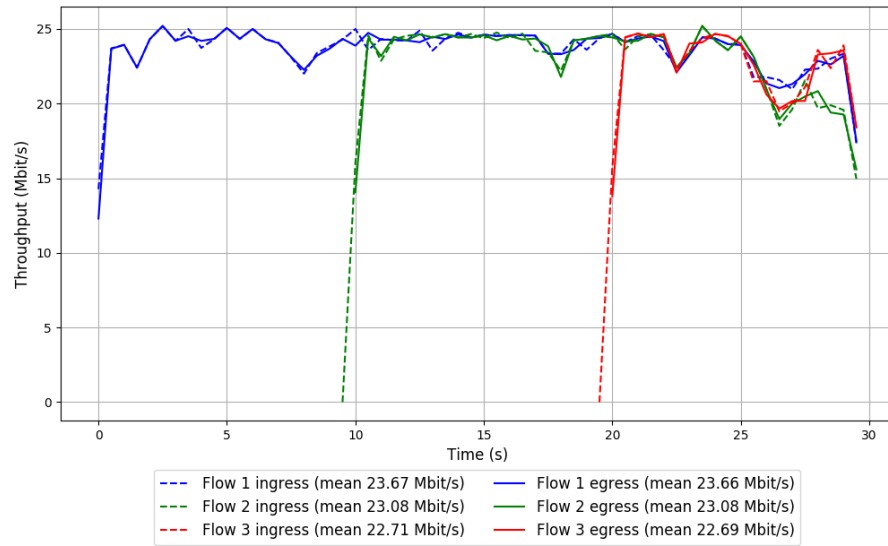


Run 5: Statistics of Sprout

Start at: 2018-01-26 11:55:42  
End at: 2018-01-26 11:56:12  
Local clock offset: 4.237 ms  
Remote clock offset: -14.032 ms

# Below is generated by plot.py at 2018-01-26 17:14:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 46.52 Mbit/s  
95th percentile per-packet one-way delay: 46.788 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 23.66 Mbit/s  
95th percentile per-packet one-way delay: 45.630 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 23.08 Mbit/s  
95th percentile per-packet one-way delay: 47.835 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 22.69 Mbit/s  
95th percentile per-packet one-way delay: 49.226 ms  
Loss rate: 0.44%

## Run 5: Report of Sprout — Data Link



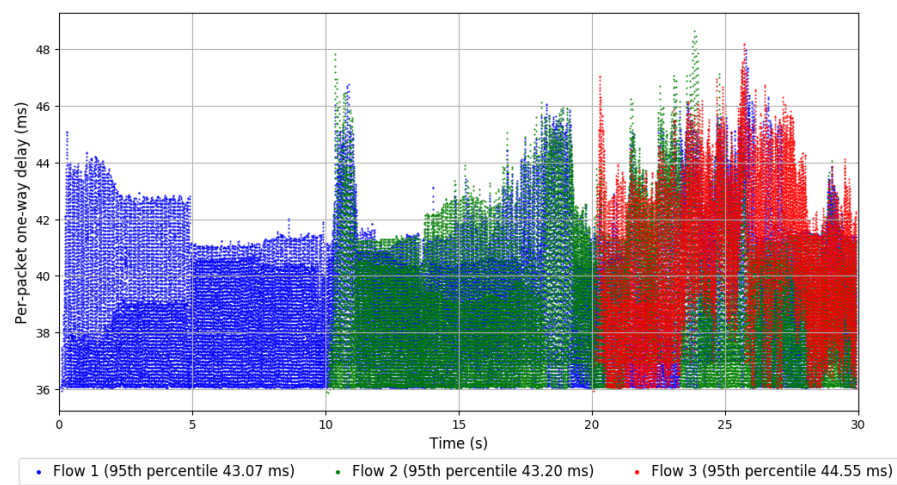
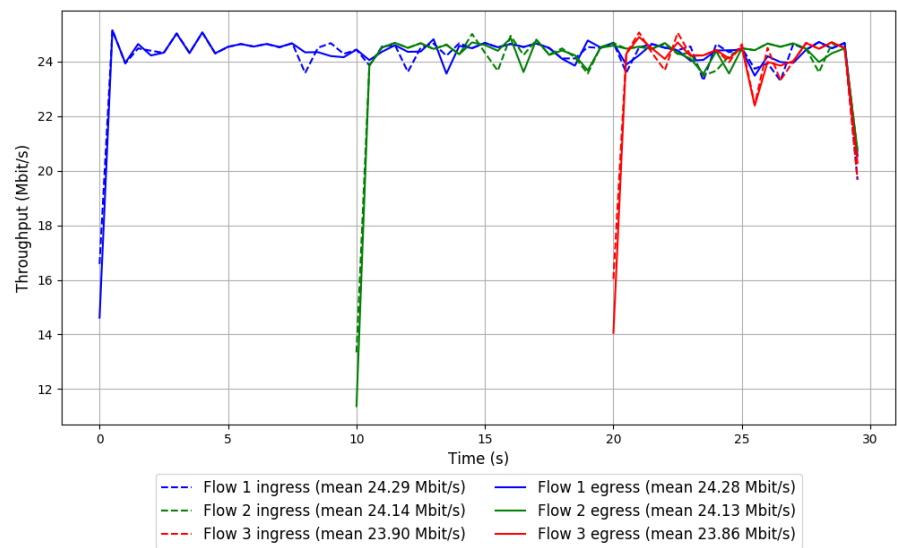
Run 6: Statistics of Sprout

Start at: 2018-01-26 12:14:53  
End at: 2018-01-26 12:15:23  
Local clock offset: 2.745 ms  
Remote clock offset: -12.55 ms

# Below is generated by plot.py at 2018-01-26 17:14:31  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.19 Mbit/s  
95th percentile per-packet one-way delay: 43.542 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 24.28 Mbit/s  
95th percentile per-packet one-way delay: 43.070 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 24.13 Mbit/s  
95th percentile per-packet one-way delay: 43.195 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 23.86 Mbit/s  
95th percentile per-packet one-way delay: 44.554 ms  
Loss rate: 0.29%



Run 6: Report of Sprout — Data Link

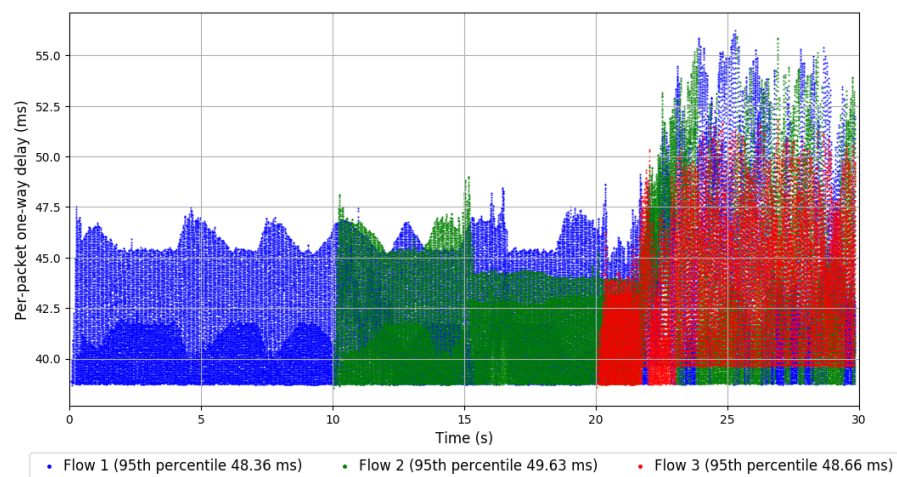
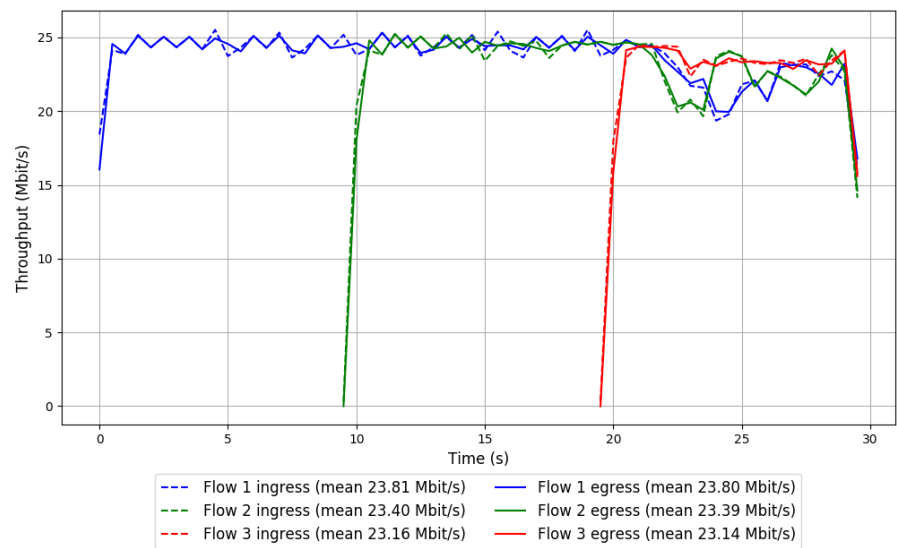


Run 7: Statistics of Sprout

Start at: 2018-01-26 12:34:17  
End at: 2018-01-26 12:34:47  
Local clock offset: 4.343 ms  
Remote clock offset: -12.096 ms

# Below is generated by plot.py at 2018-01-26 17:14:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 47.04 Mbit/s  
95th percentile per-packet one-way delay: 48.890 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 23.80 Mbit/s  
95th percentile per-packet one-way delay: 48.359 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 23.39 Mbit/s  
95th percentile per-packet one-way delay: 49.635 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 23.14 Mbit/s  
95th percentile per-packet one-way delay: 48.660 ms  
Loss rate: 0.37%

Run 7: Report of Sprout — Data Link

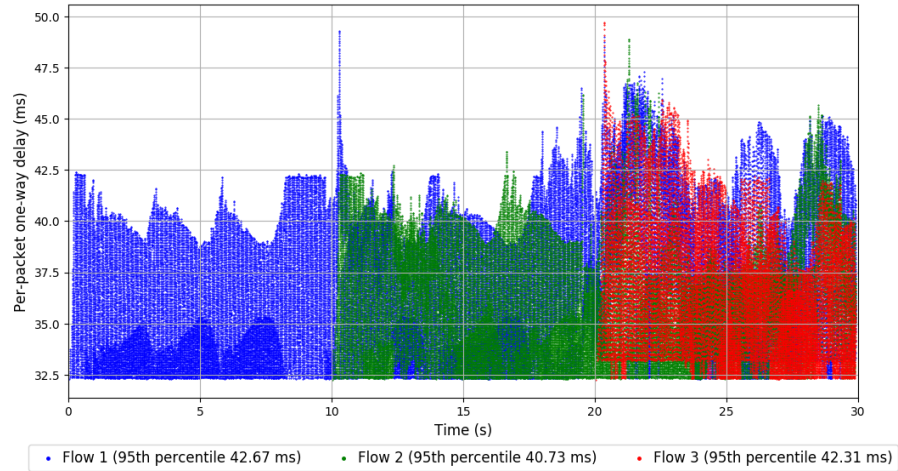
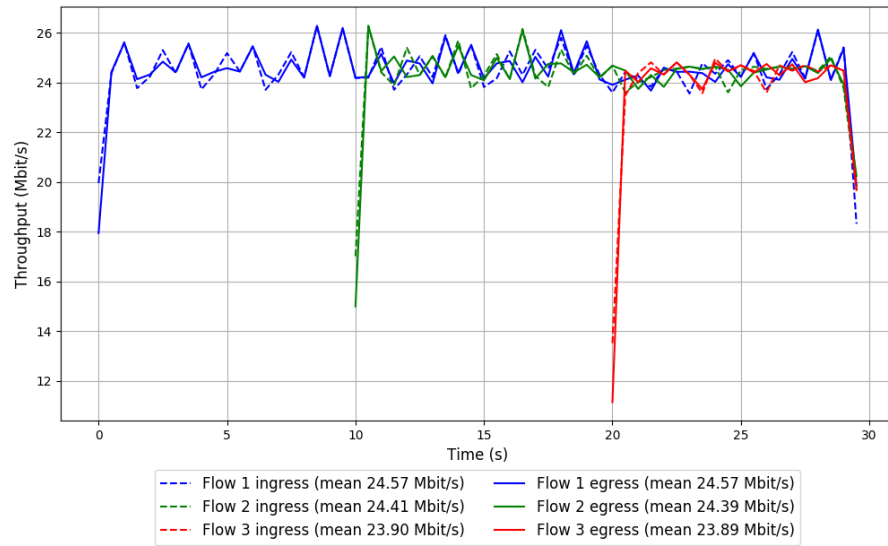


Run 8: Statistics of Sprout

Start at: 2018-01-26 12:53:55  
End at: 2018-01-26 12:54:25  
Local clock offset: 1.534 ms  
Remote clock offset: -12.126 ms

# Below is generated by plot.py at 2018-01-26 17:14:37  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.67 Mbit/s  
95th percentile per-packet one-way delay: 42.115 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 24.57 Mbit/s  
95th percentile per-packet one-way delay: 42.666 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 24.39 Mbit/s  
95th percentile per-packet one-way delay: 40.730 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 23.89 Mbit/s  
95th percentile per-packet one-way delay: 42.309 ms  
Loss rate: 0.42%

# Run 8: Report of Sprout — Data Link

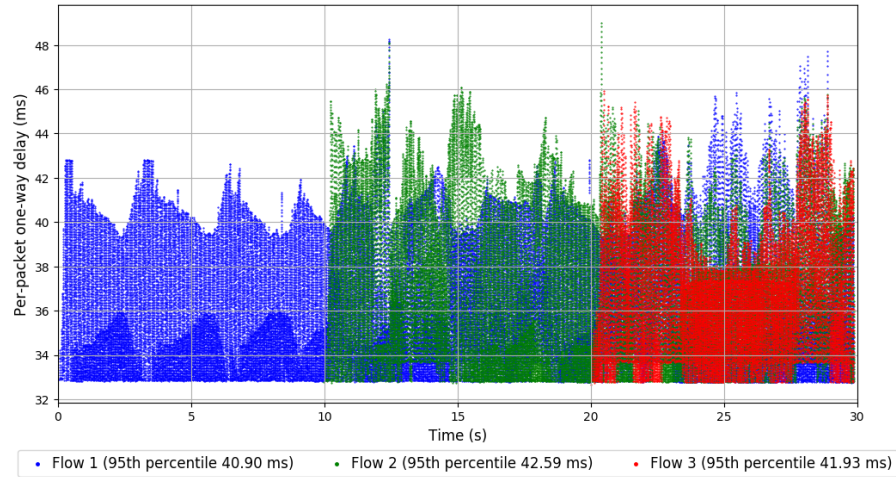
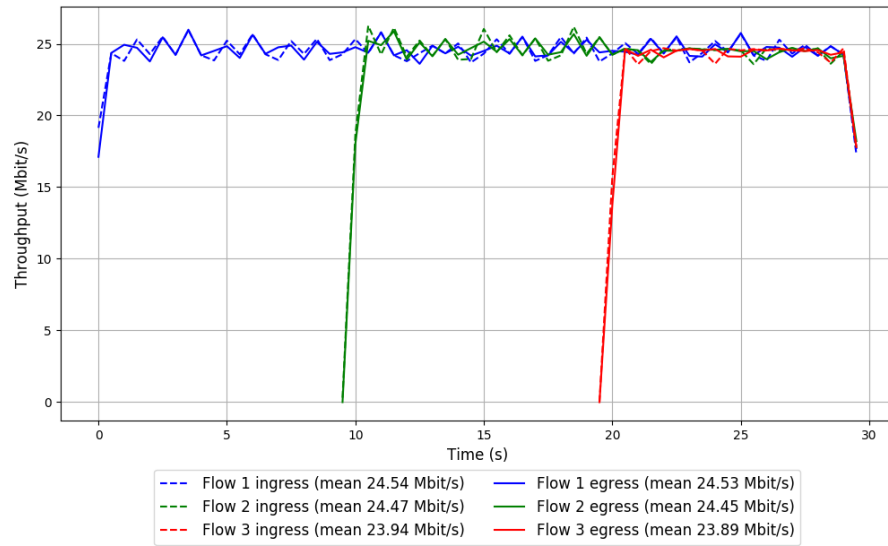


Run 9: Statistics of Sprout

Start at: 2018-01-26 13:13:34  
End at: 2018-01-26 13:14:04  
Local clock offset: 2.976 ms  
Remote clock offset: -11.618 ms

# Below is generated by plot.py at 2018-01-26 17:14:54  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.71 Mbit/s  
95th percentile per-packet one-way delay: 41.754 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 24.53 Mbit/s  
95th percentile per-packet one-way delay: 40.901 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 24.45 Mbit/s  
95th percentile per-packet one-way delay: 42.588 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 23.89 Mbit/s  
95th percentile per-packet one-way delay: 41.928 ms  
Loss rate: 0.35%

## Run 9: Report of Sprout — Data Link



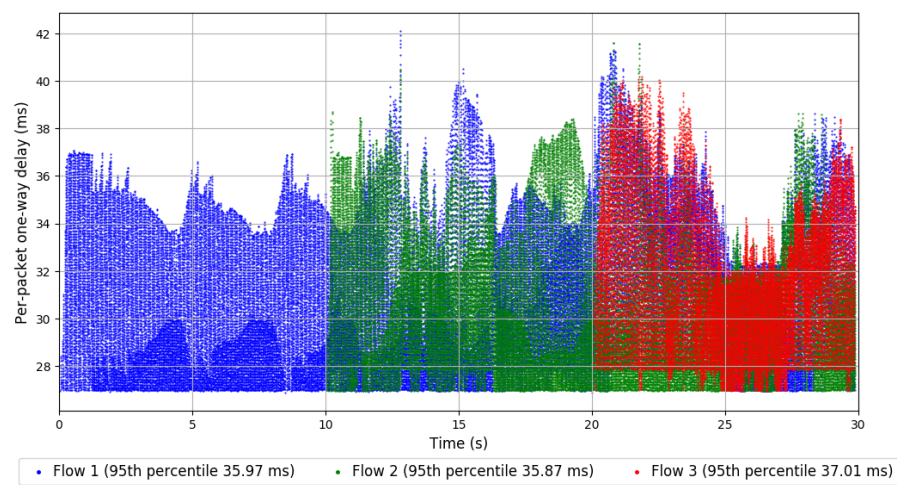
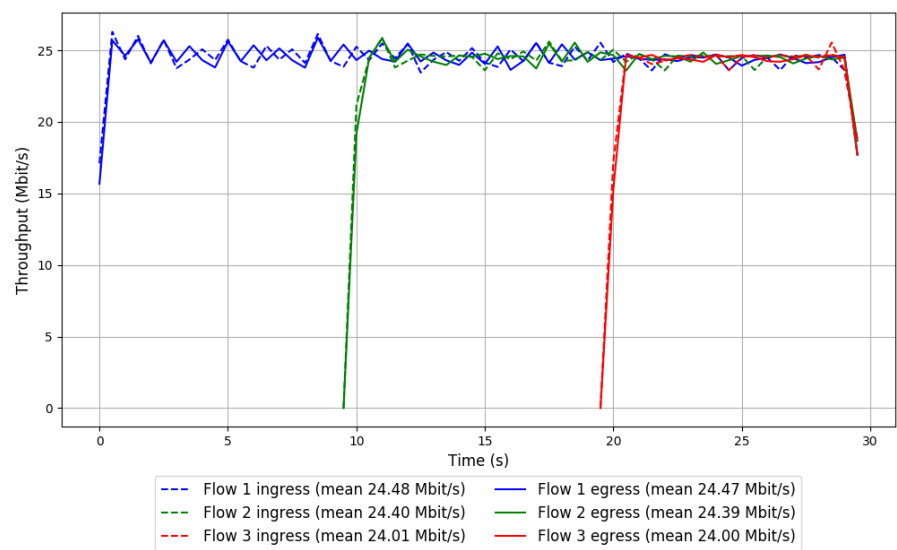
Run 10: Statistics of Sprout

Start at: 2018-01-26 13:33:25  
End at: 2018-01-26 13:33:55  
Local clock offset: -6.537 ms  
Remote clock offset: -16.146 ms

# Below is generated by plot.py at 2018-01-26 17:15:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 48.65 Mbit/s  
95th percentile per-packet one-way delay: 36.137 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 24.47 Mbit/s  
95th percentile per-packet one-way delay: 35.974 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 24.39 Mbit/s  
95th percentile per-packet one-way delay: 35.870 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 24.00 Mbit/s  
95th percentile per-packet one-way delay: 37.008 ms  
Loss rate: 0.41%



Run 10: Report of Sprout — Data Link

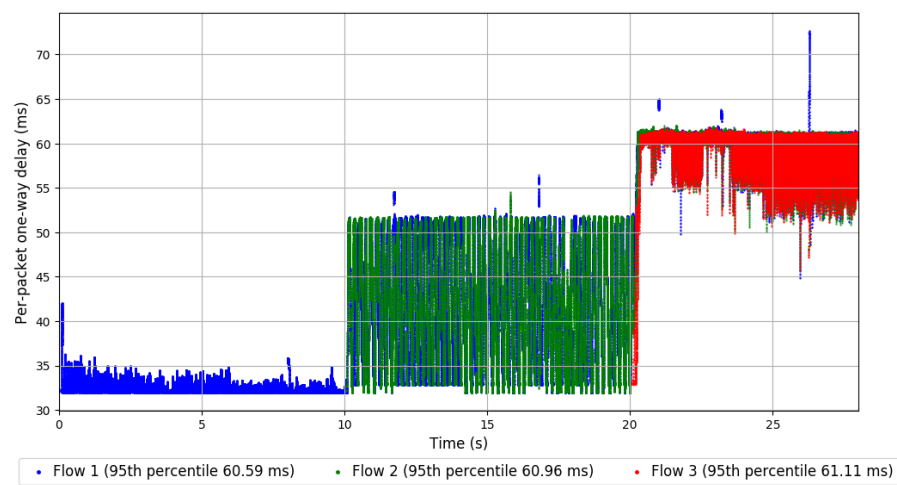
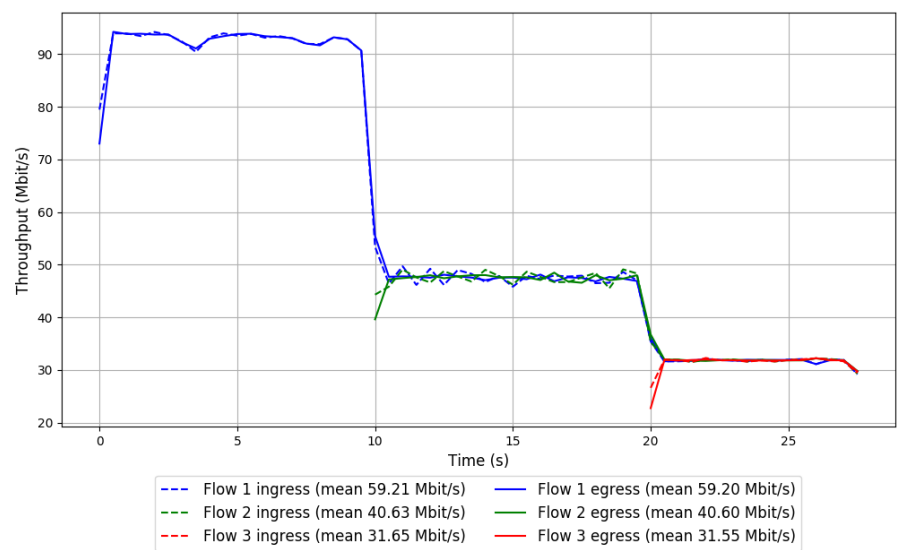


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-01-26 10:51:32
End at: 2018-01-26 10:52:02
Local clock offset: 1.973 ms
Remote clock offset: -19.08 ms

# Below is generated by plot.py at 2018-01-26 17:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.18 Mbit/s
95th percentile per-packet one-way delay: 60.880 ms
Loss rate: 0.19%
-- Flow 1:
Average throughput: 59.20 Mbit/s
95th percentile per-packet one-way delay: 60.594 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 40.60 Mbit/s
95th percentile per-packet one-way delay: 60.956 ms
Loss rate: 0.23%
-- Flow 3:
Average throughput: 31.55 Mbit/s
95th percentile per-packet one-way delay: 61.106 ms
Loss rate: 0.67%
```

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

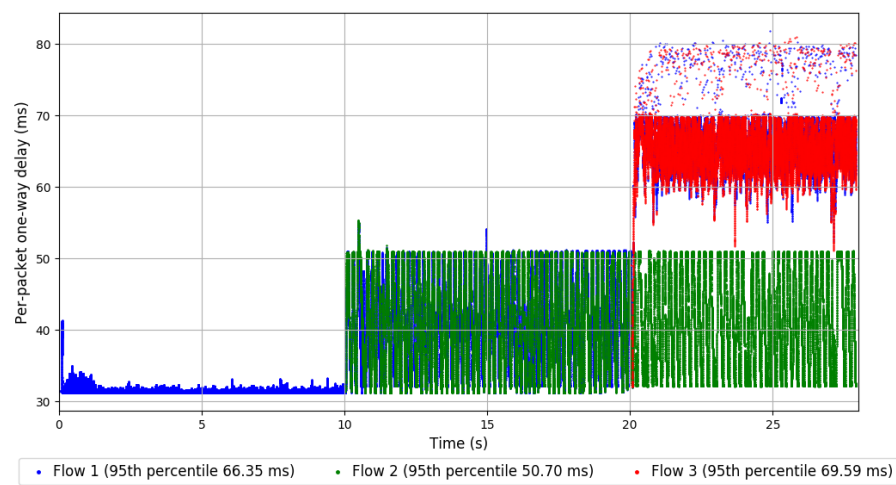
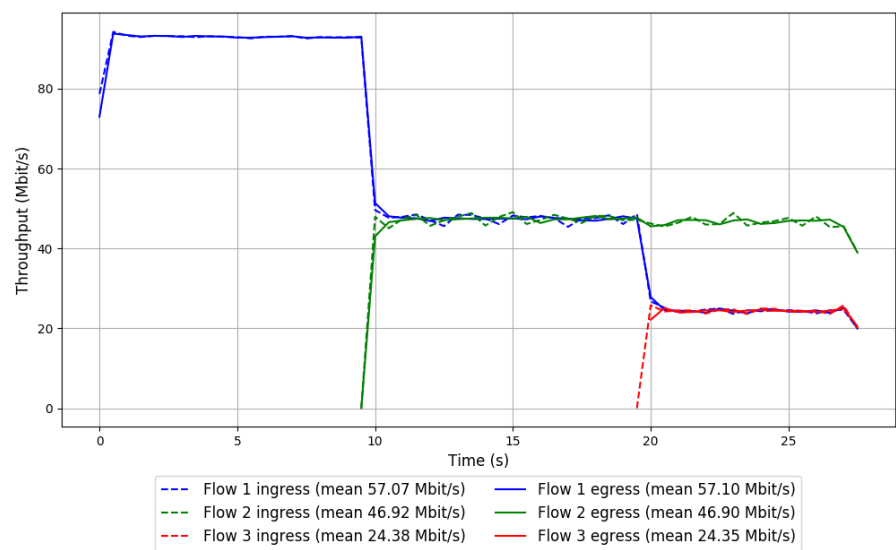


Run 2: Statistics of TaoVA-100x

Start at: 2018-01-26 11:10:18  
End at: 2018-01-26 11:10:48  
Local clock offset: 1.716 ms  
Remote clock offset: -16.848 ms

# Below is generated by plot.py at 2018-01-26 17:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.14 Mbit/s  
95th percentile per-packet one-way delay: 66.916 ms  
Loss rate: 0.17%  
-- Flow 1:  
Average throughput: 57.10 Mbit/s  
95th percentile per-packet one-way delay: 66.348 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 46.90 Mbit/s  
95th percentile per-packet one-way delay: 50.701 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 24.35 Mbit/s  
95th percentile per-packet one-way delay: 69.587 ms  
Loss rate: 0.78%

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

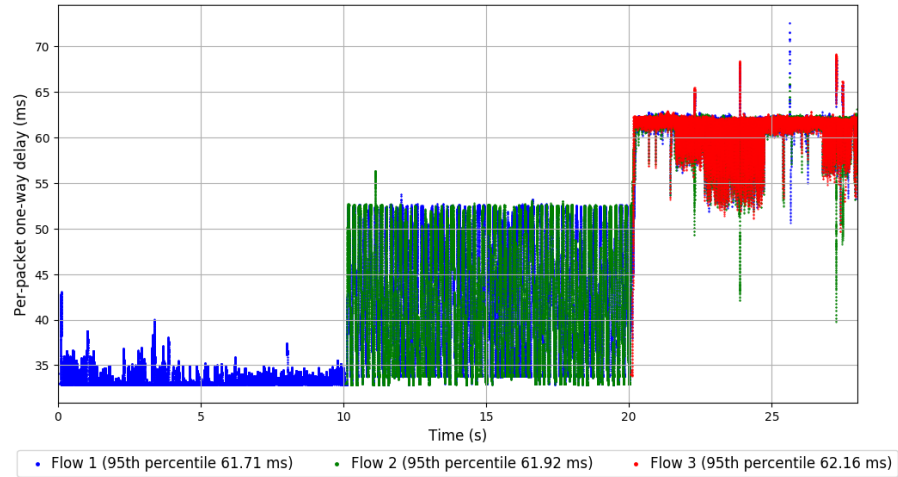
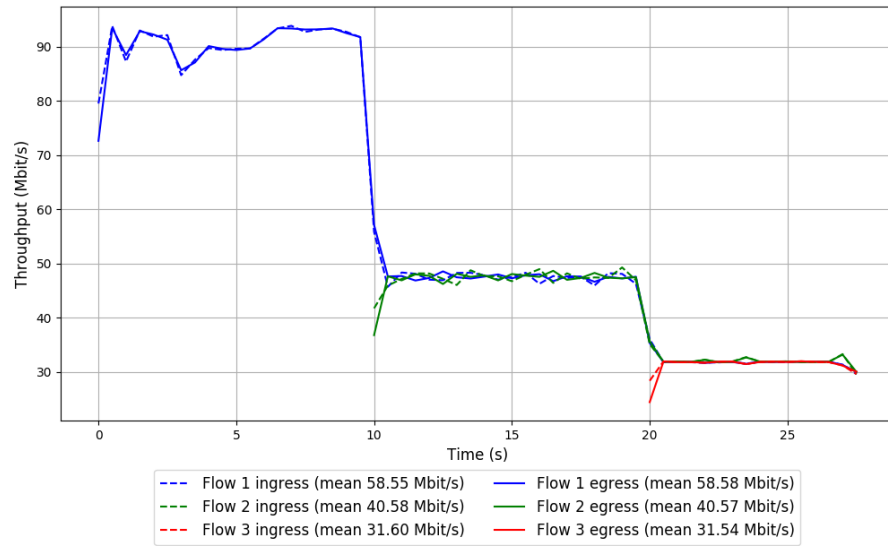


Run 3: Statistics of TaoVA-100x

Start at: 2018-01-26 11:29:10  
End at: 2018-01-26 11:29:40  
Local clock offset: 2.83 ms  
Remote clock offset: -16.061 ms

# Below is generated by plot.py at 2018-01-26 17:16:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.51 Mbit/s  
95th percentile per-packet one-way delay: 61.907 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 58.58 Mbit/s  
95th percentile per-packet one-way delay: 61.706 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 61.920 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 31.54 Mbit/s  
95th percentile per-packet one-way delay: 62.156 ms  
Loss rate: 0.70%

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



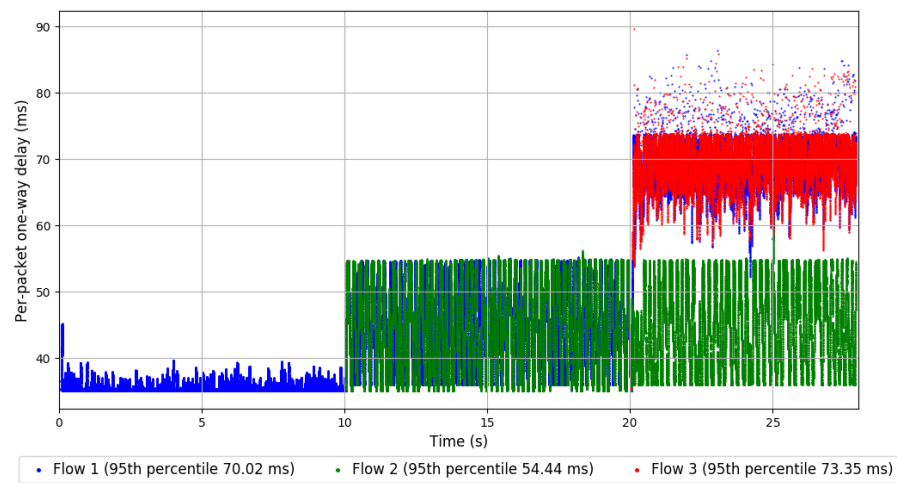
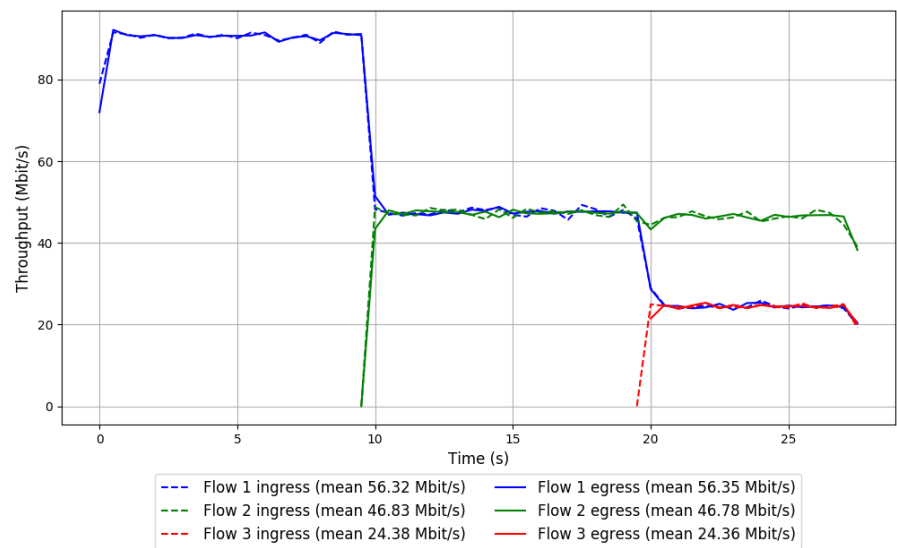
Run 4: Statistics of TaoVA-100x

Start at: 2018-01-26 11:48:20  
End at: 2018-01-26 11:48:50  
Local clock offset: 4.919 ms  
Remote clock offset: -15.196 ms

# Below is generated by plot.py at 2018-01-26 17:16:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.33 Mbit/s  
95th percentile per-packet one-way delay: 70.658 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 56.35 Mbit/s  
95th percentile per-packet one-way delay: 70.022 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 46.78 Mbit/s  
95th percentile per-packet one-way delay: 54.443 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 24.36 Mbit/s  
95th percentile per-packet one-way delay: 73.347 ms  
Loss rate: 0.72%



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

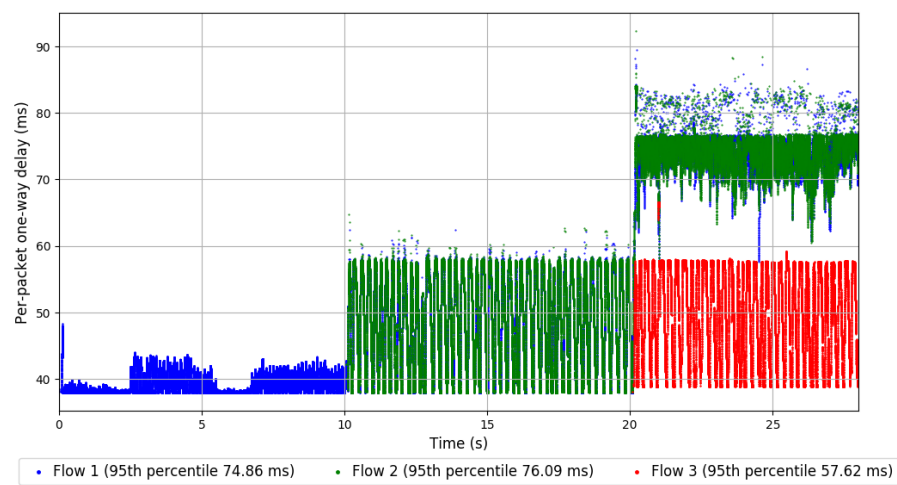
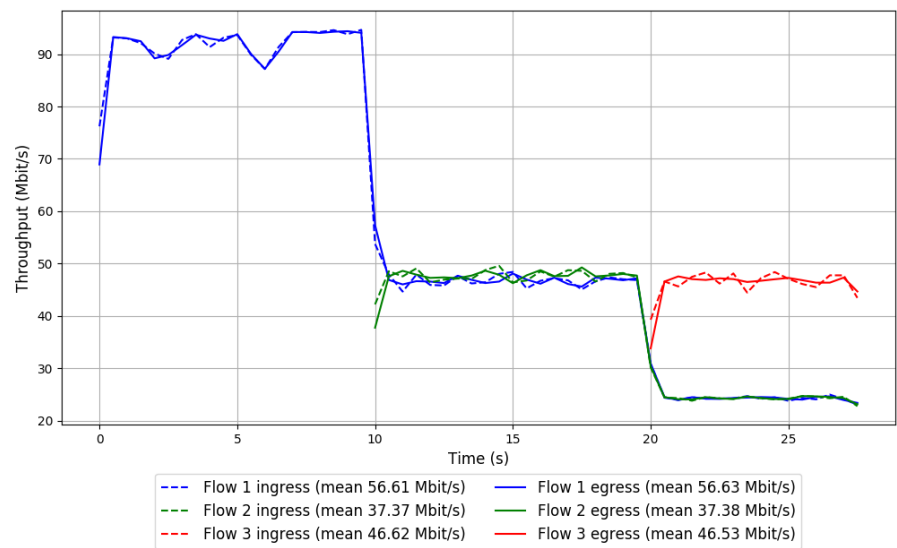


Run 5: Statistics of TaoVA-100x

Start at: 2018-01-26 12:07:22  
End at: 2018-01-26 12:07:52  
Local clock offset: 5.028 ms  
Remote clock offset: -12.423 ms

# Below is generated by plot.py at 2018-01-26 17:16:52  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.76 Mbit/s  
95th percentile per-packet one-way delay: 75.264 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 56.63 Mbit/s  
95th percentile per-packet one-way delay: 74.862 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 37.38 Mbit/s  
95th percentile per-packet one-way delay: 76.088 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 46.53 Mbit/s  
95th percentile per-packet one-way delay: 57.616 ms  
Loss rate: 0.57%

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

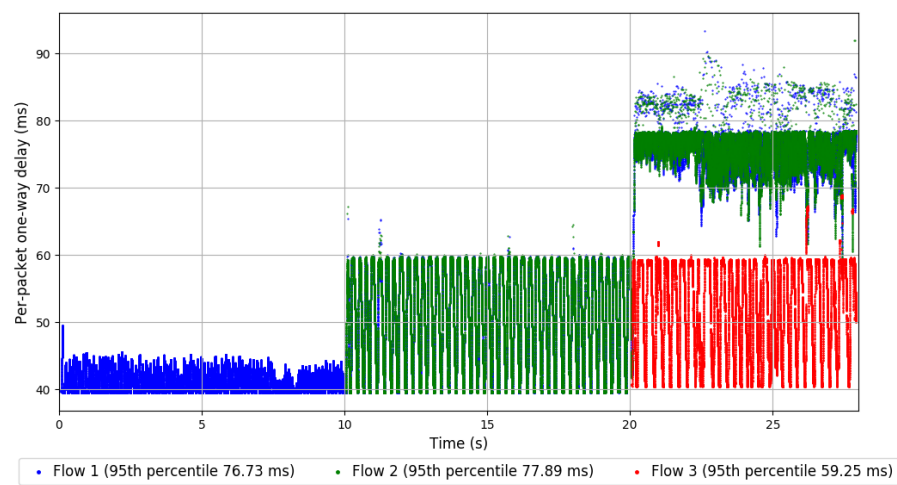
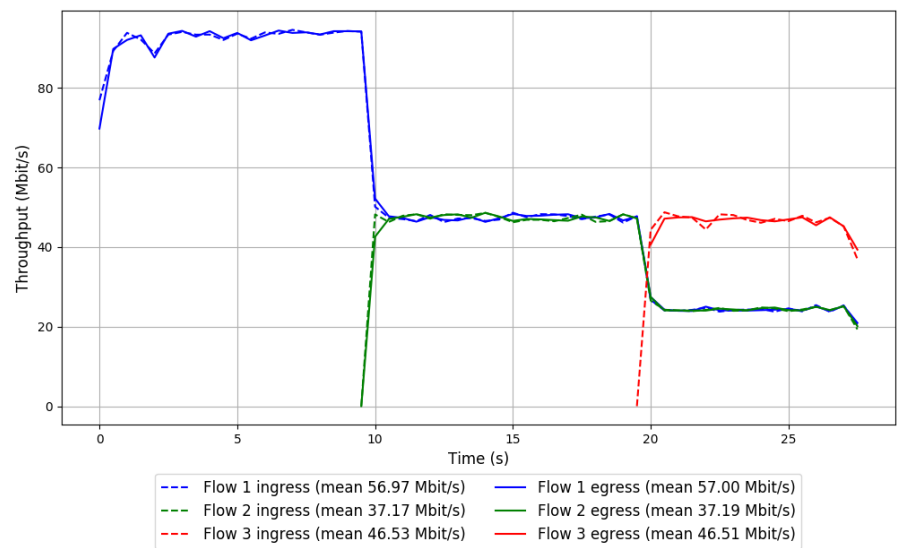


Run 6: Statistics of TaoVA-100x

Start at: 2018-01-26 12:26:40  
End at: 2018-01-26 12:27:10  
Local clock offset: 4.645 ms  
Remote clock offset: -12.903 ms

# Below is generated by plot.py at 2018-01-26 17:17:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 77.100 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 57.00 Mbit/s  
95th percentile per-packet one-way delay: 76.728 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 37.19 Mbit/s  
95th percentile per-packet one-way delay: 77.894 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 46.51 Mbit/s  
95th percentile per-packet one-way delay: 59.249 ms  
Loss rate: 0.43%

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

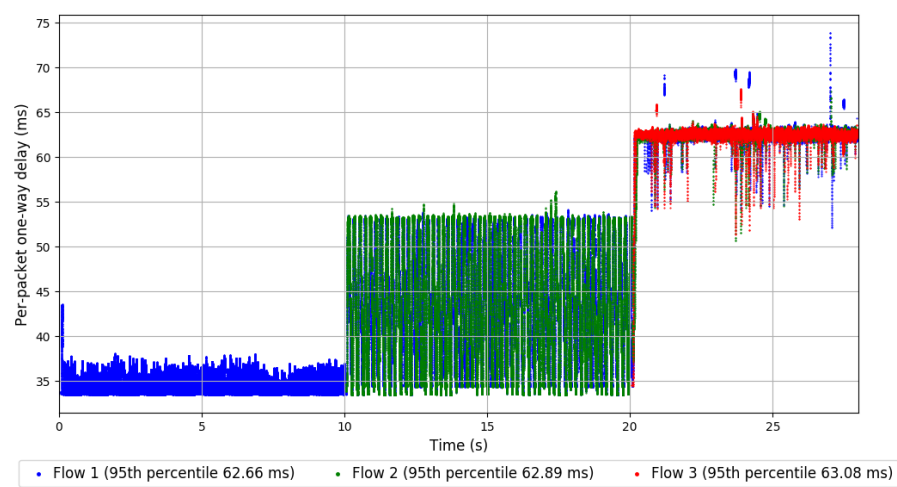
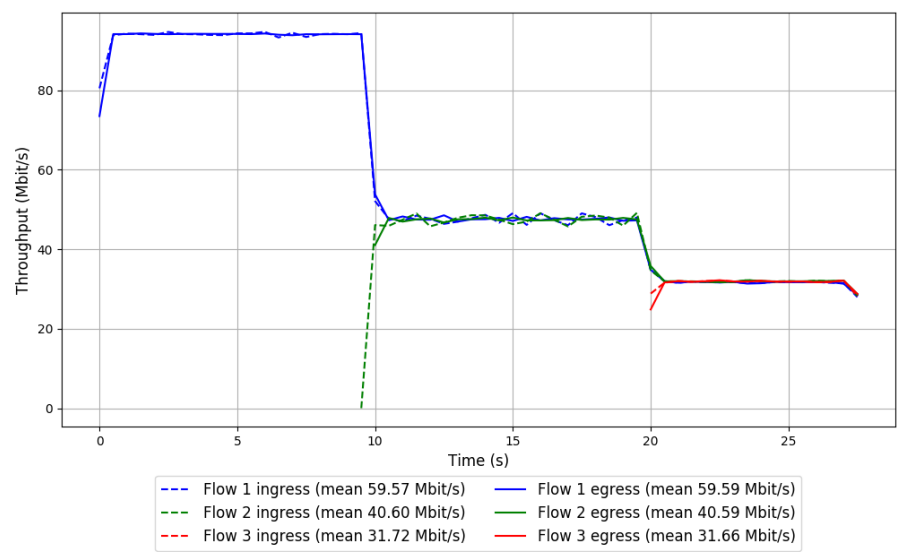


Run 7: Statistics of TaoVA-100x

Start at: 2018-01-26 12:46:19  
End at: 2018-01-26 12:46:49  
Local clock offset: 3.163 ms  
Remote clock offset: -12.323 ms

# Below is generated by plot.py at 2018-01-26 17:17:18  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.63 Mbit/s  
95th percentile per-packet one-way delay: 62.844 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 59.59 Mbit/s  
95th percentile per-packet one-way delay: 62.655 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 40.59 Mbit/s  
95th percentile per-packet one-way delay: 62.889 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 31.66 Mbit/s  
95th percentile per-packet one-way delay: 63.080 ms  
Loss rate: 0.69%

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



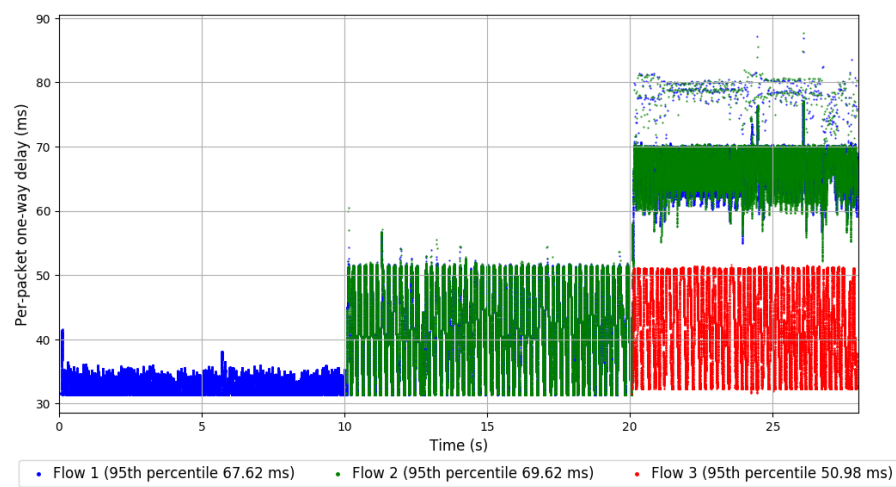
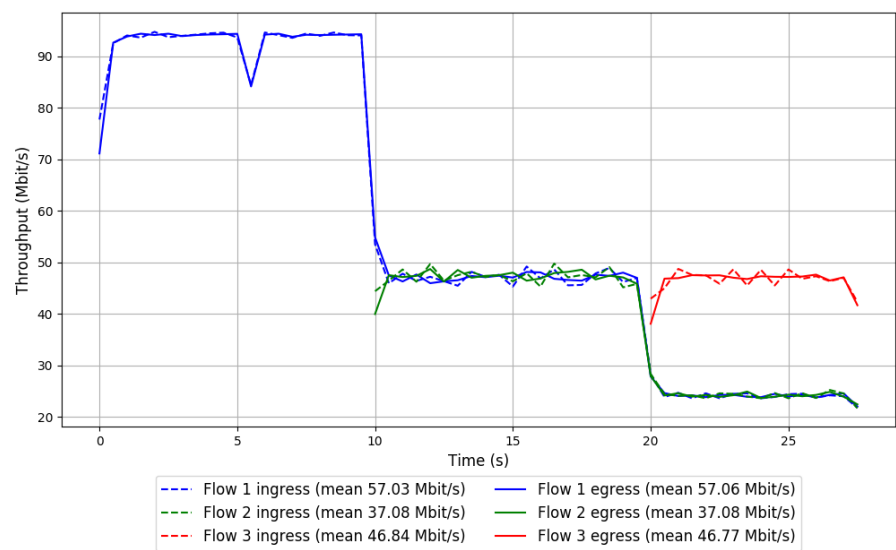
Run 8: Statistics of TaoVA-100x

Start at: 2018-01-26 13:06:00  
End at: 2018-01-26 13:06:30  
Local clock offset: 3.061 ms  
Remote clock offset: -9.527 ms

# Below is generated by plot.py at 2018-01-26 17:17:26  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.09 Mbit/s  
95th percentile per-packet one-way delay: 68.285 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 57.06 Mbit/s  
95th percentile per-packet one-way delay: 67.623 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 37.08 Mbit/s  
95th percentile per-packet one-way delay: 69.624 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 46.77 Mbit/s  
95th percentile per-packet one-way delay: 50.975 ms  
Loss rate: 0.58%



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

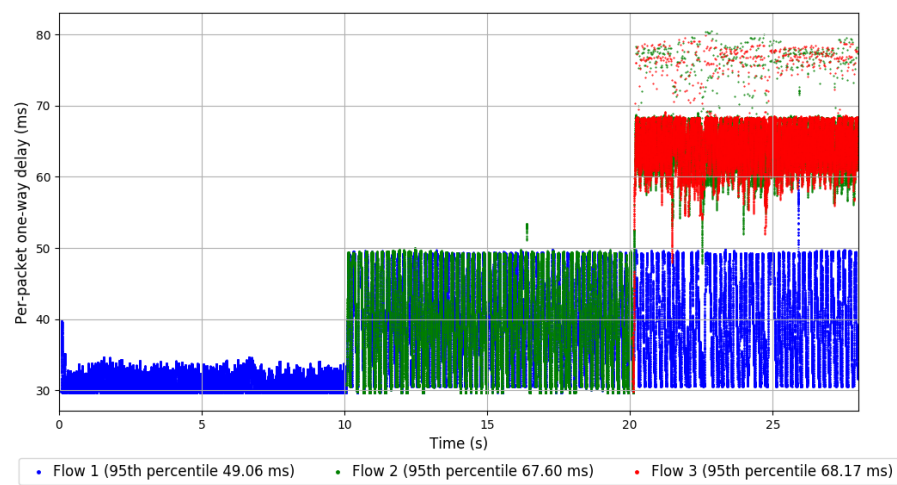
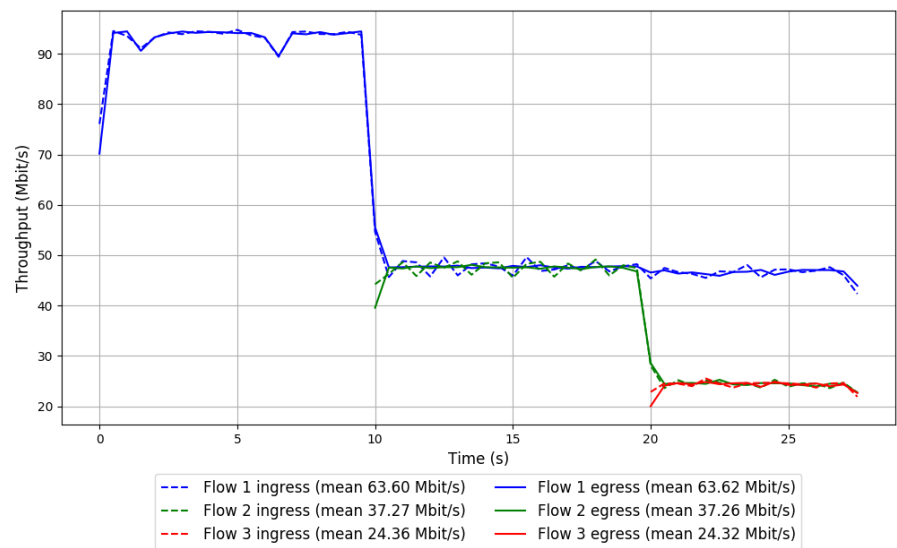


Run 9: Statistics of TaoVA-100x

Start at: 2018-01-26 13:25:41  
End at: 2018-01-26 13:26:11  
Local clock offset: 0.983 ms  
Remote clock offset: -11.514 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.41 Mbit/s  
95th percentile per-packet one-way delay: 66.016 ms  
Loss rate: 0.15%  
-- Flow 1:  
Average throughput: 63.62 Mbit/s  
95th percentile per-packet one-way delay: 49.064 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 37.26 Mbit/s  
95th percentile per-packet one-way delay: 67.599 ms  
Loss rate: 0.22%  
-- Flow 3:  
Average throughput: 24.32 Mbit/s  
95th percentile per-packet one-way delay: 68.170 ms  
Loss rate: 0.72%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-01-26 13:45:26

End at: 2018-01-26 13:45:56

Local clock offset: 1.543 ms

Remote clock offset: -12.333 ms

# Below is generated by plot.py at 2018-01-26 17:19:11

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.11 Mbit/s

95th percentile per-packet one-way delay: 66.394 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 56.99 Mbit/s

95th percentile per-packet one-way delay: 65.773 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 47.03 Mbit/s

95th percentile per-packet one-way delay: 49.847 ms

Loss rate: 0.17%

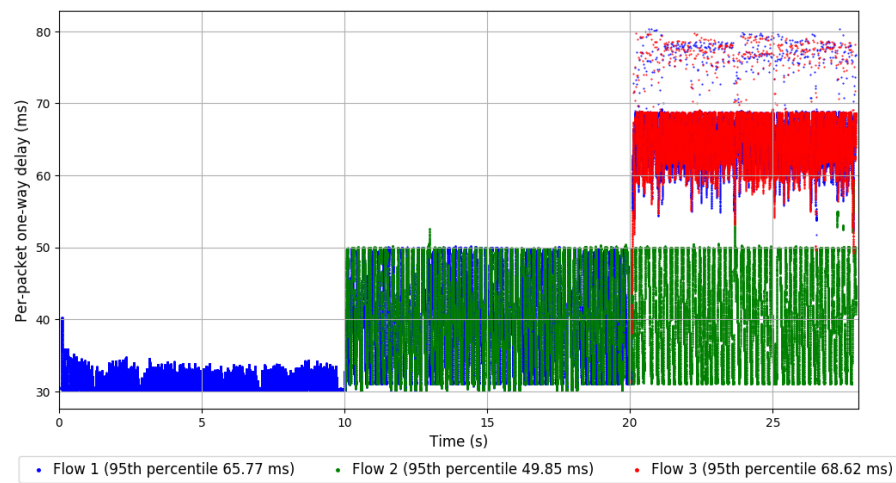
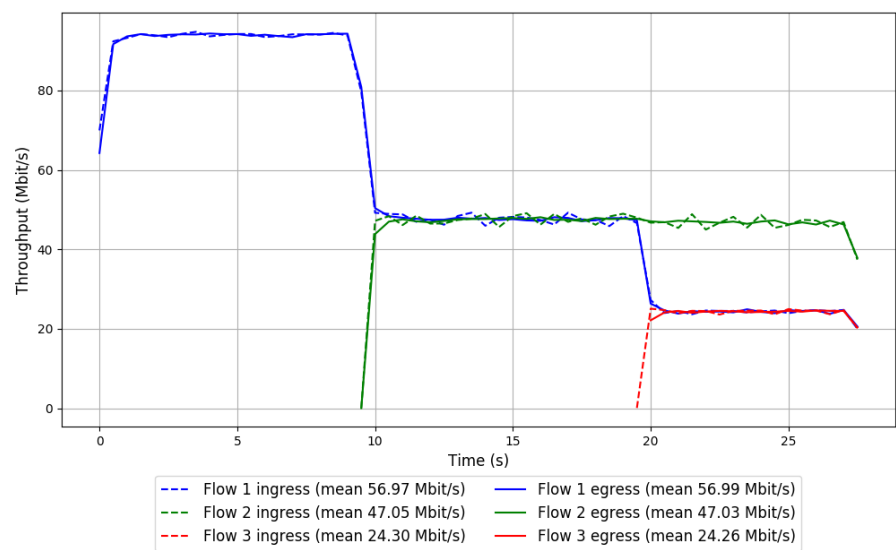
-- Flow 3:

Average throughput: 24.26 Mbit/s

95th percentile per-packet one-way delay: 68.622 ms

Loss rate: 0.72%

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

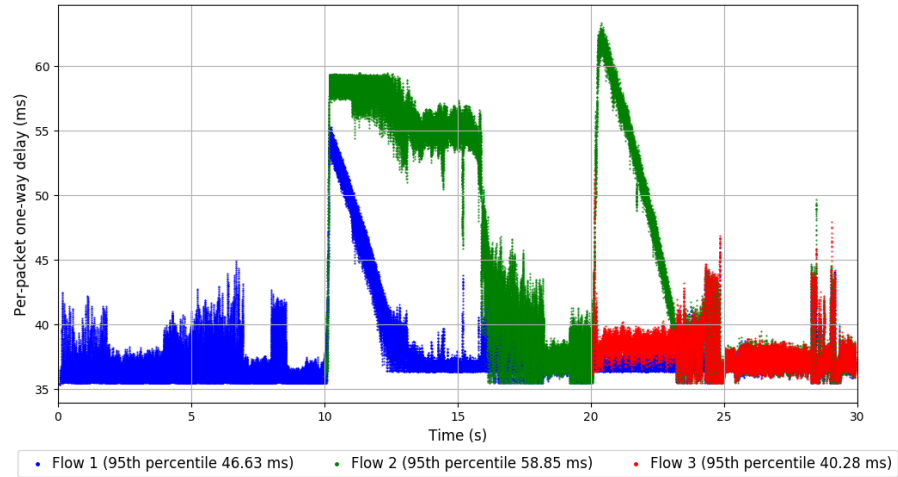
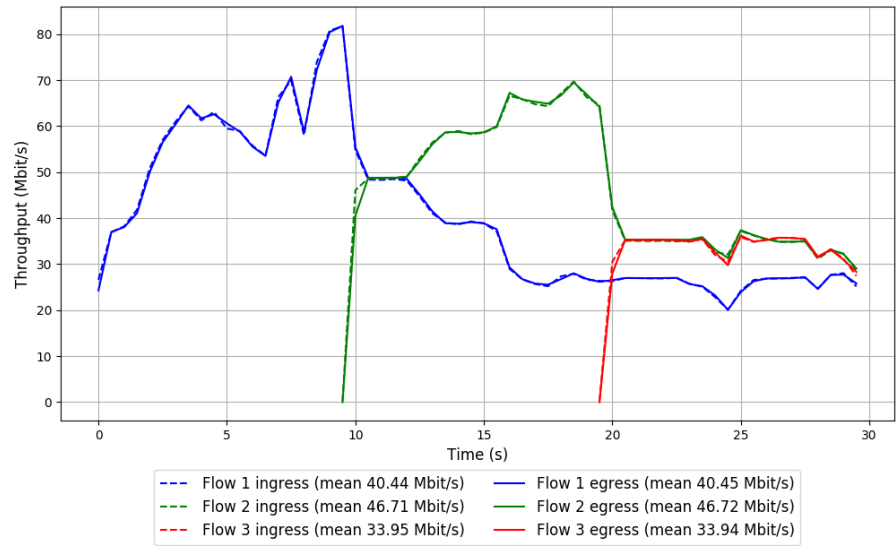


Run 1: Statistics of TCP Vegas

Start at: 2018-01-26 10:52:45  
End at: 2018-01-26 10:53:15  
Local clock offset: 4.303 ms  
Remote clock offset: -20.244 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 82.89 Mbit/s  
95th percentile per-packet one-way delay: 57.519 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 40.45 Mbit/s  
95th percentile per-packet one-way delay: 46.632 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 46.72 Mbit/s  
95th percentile per-packet one-way delay: 58.851 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 33.94 Mbit/s  
95th percentile per-packet one-way delay: 40.283 ms  
Loss rate: 0.27%

# Run 1: Report of TCP Vegas — Data Link



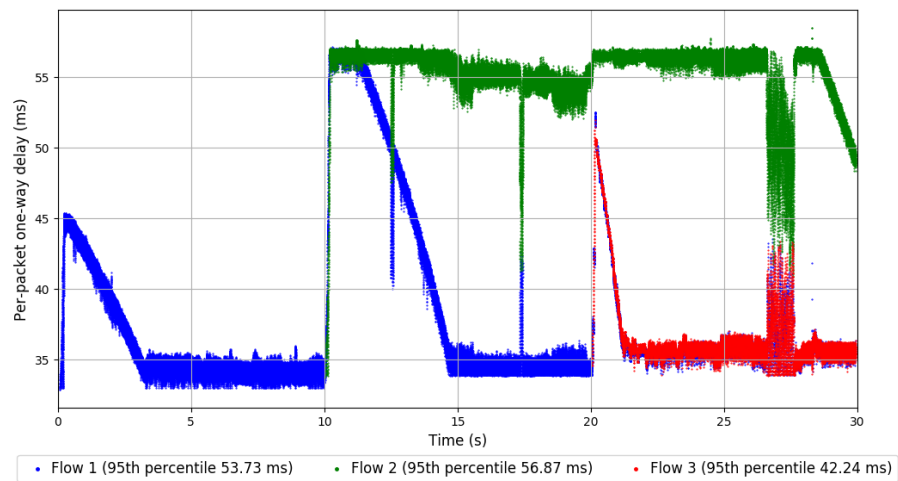
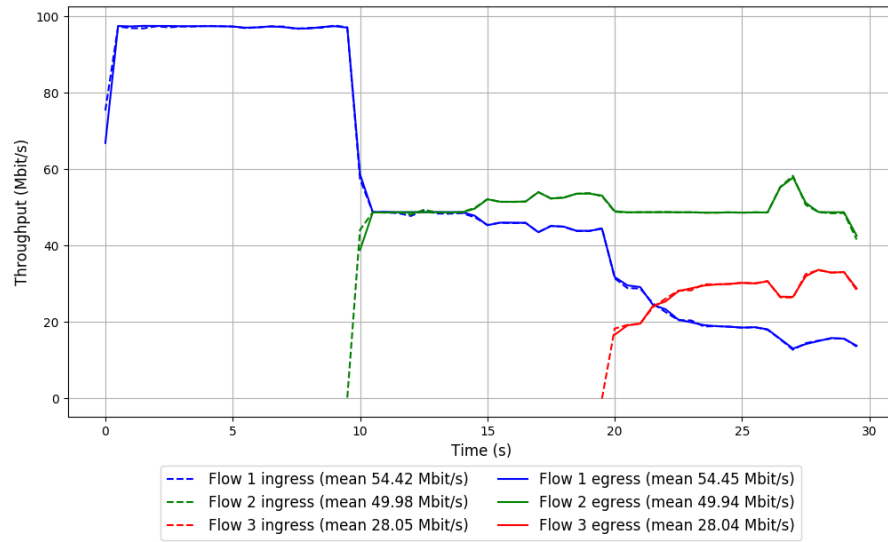
Run 2: Statistics of TCP Vegas

Start at: 2018-01-26 11:11:34  
End at: 2018-01-26 11:12:04  
Local clock offset: 3.703 ms  
Remote clock offset: -16.577 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.05 Mbit/s  
95th percentile per-packet one-way delay: 56.723 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 54.45 Mbit/s  
95th percentile per-packet one-way delay: 53.731 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 49.94 Mbit/s  
95th percentile per-packet one-way delay: 56.866 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 28.04 Mbit/s  
95th percentile per-packet one-way delay: 42.245 ms  
Loss rate: 0.34%



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

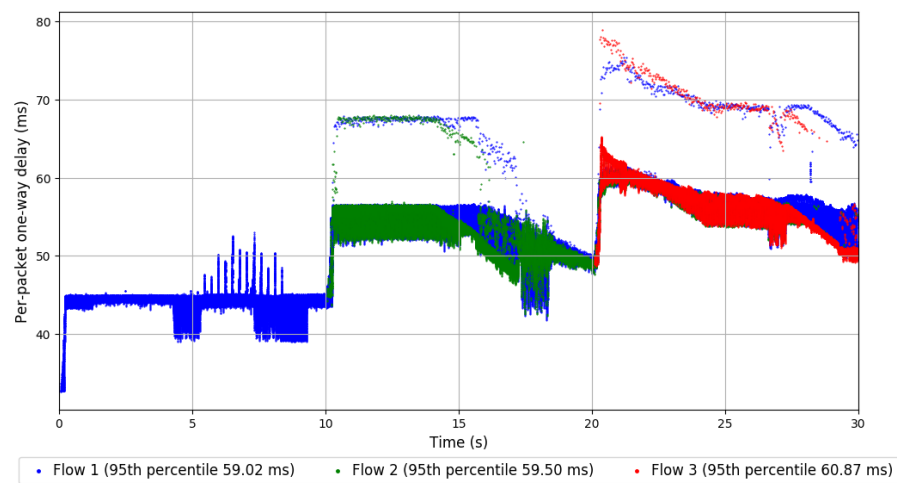
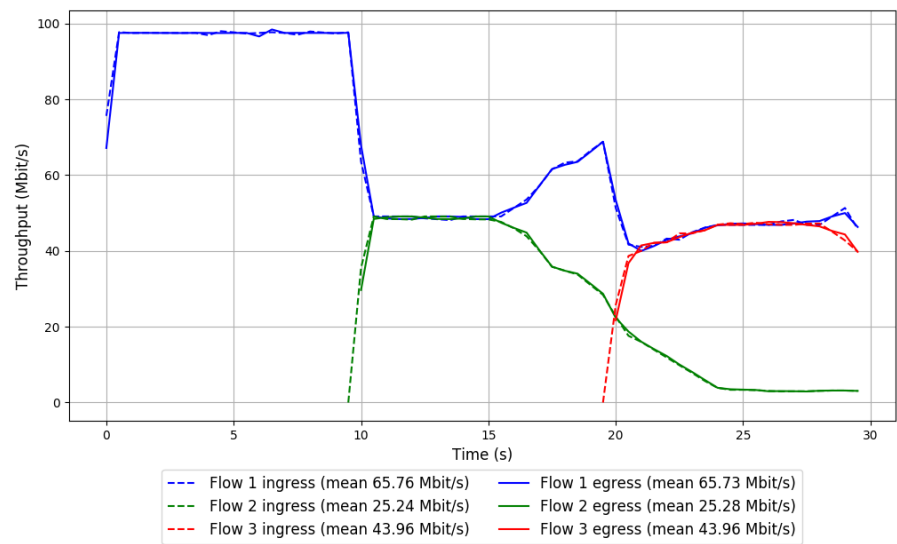


Run 3: Statistics of TCP Vegas

Start at: 2018-01-26 11:30:26  
End at: 2018-01-26 11:30:56  
Local clock offset: 4.52 ms  
Remote clock offset: -14.071 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.11 Mbit/s  
95th percentile per-packet one-way delay: 59.648 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 65.73 Mbit/s  
95th percentile per-packet one-way delay: 59.022 ms  
Loss rate: 0.14%  
-- Flow 2:  
Average throughput: 25.28 Mbit/s  
95th percentile per-packet one-way delay: 59.498 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 43.96 Mbit/s  
95th percentile per-packet one-way delay: 60.874 ms  
Loss rate: 0.44%

Run 3: Report of TCP Vegas — Data Link

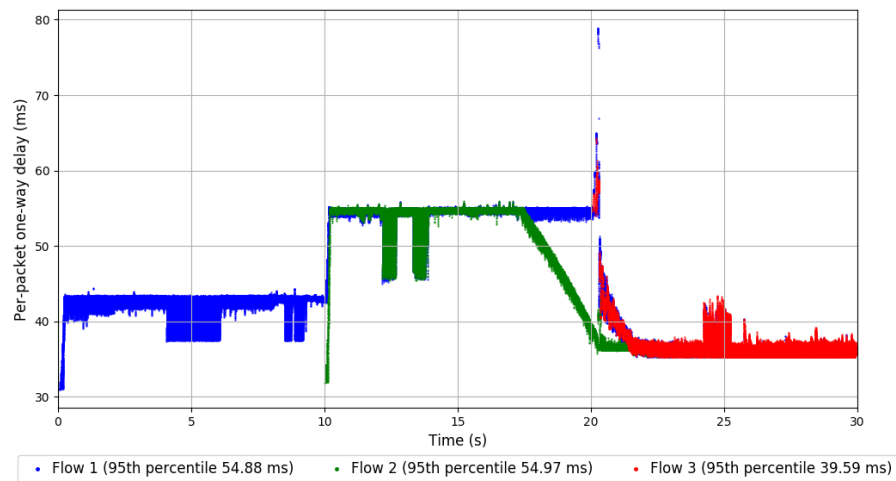
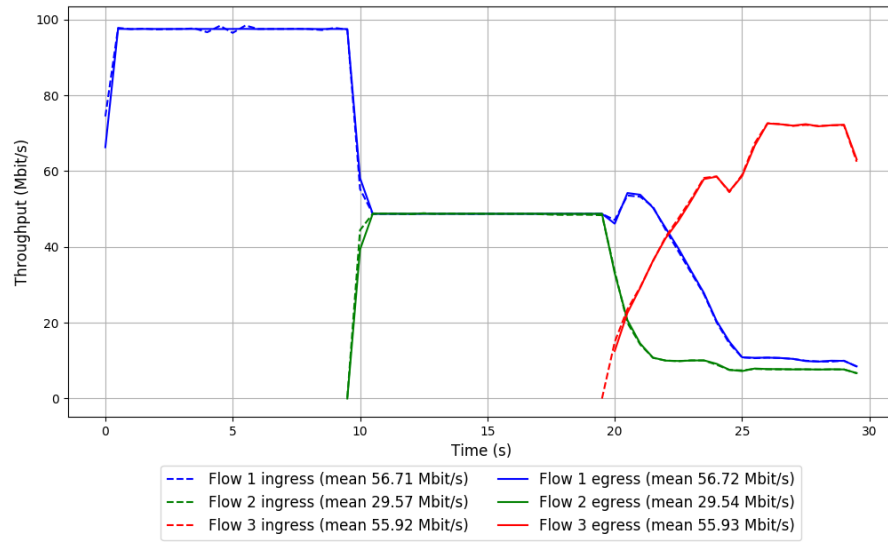


Run 4: Statistics of TCP Vegas

Start at: 2018-01-26 11:49:35  
End at: 2018-01-26 11:50:05  
Local clock offset: 1.903 ms  
Remote clock offset: -14.017 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.92 Mbit/s  
95th percentile per-packet one-way delay: 54.906 ms  
Loss rate: 0.18%  
-- Flow 1:  
Average throughput: 56.72 Mbit/s  
95th percentile per-packet one-way delay: 54.879 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 29.54 Mbit/s  
95th percentile per-packet one-way delay: 54.974 ms  
Loss rate: 0.25%  
-- Flow 3:  
Average throughput: 55.93 Mbit/s  
95th percentile per-packet one-way delay: 39.594 ms  
Loss rate: 0.47%

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

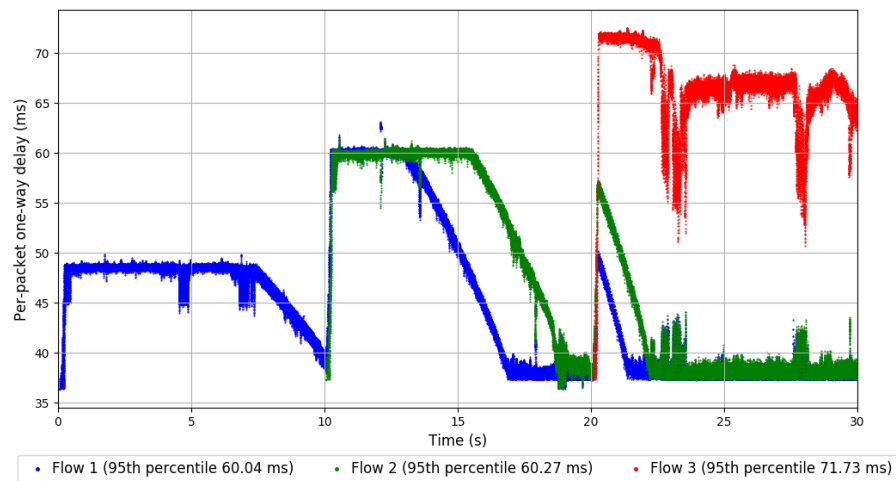
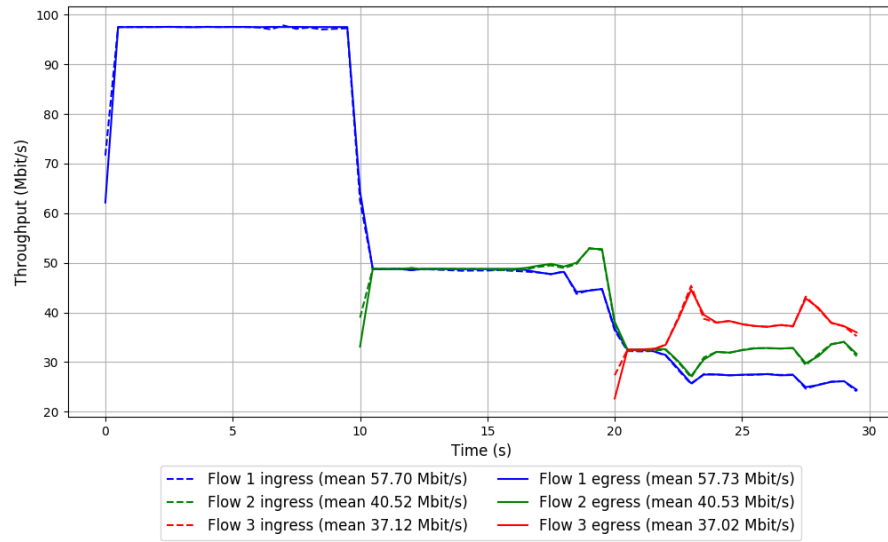


Run 5: Statistics of TCP Vegas

Start at: 2018-01-26 12:08:38  
End at: 2018-01-26 12:09:08  
Local clock offset: 3.249 ms  
Remote clock offset: -12.635 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.98 Mbit/s  
95th percentile per-packet one-way delay: 67.005 ms  
Loss rate: 0.14%  
-- Flow 1:  
Average throughput: 57.73 Mbit/s  
95th percentile per-packet one-way delay: 60.043 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.53 Mbit/s  
95th percentile per-packet one-way delay: 60.270 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 37.02 Mbit/s  
95th percentile per-packet one-way delay: 71.734 ms  
Loss rate: 0.58%

# Run 5: Report of TCP Vegas — Data Link



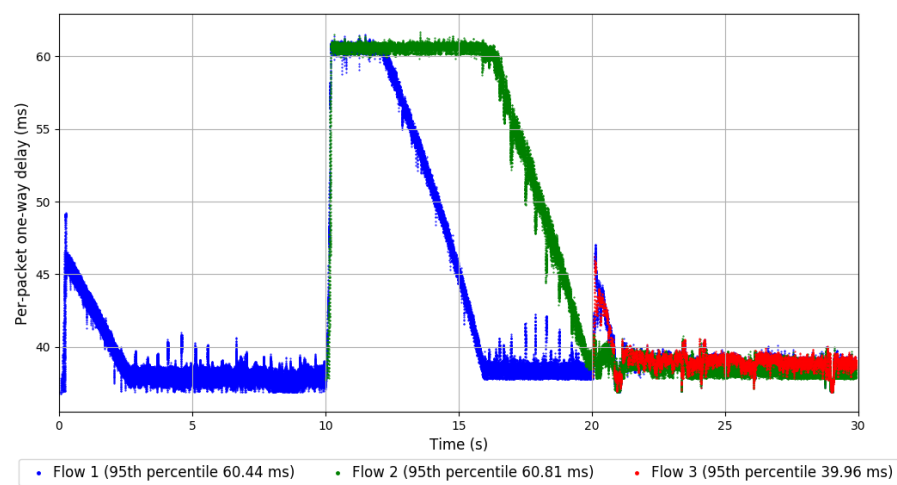
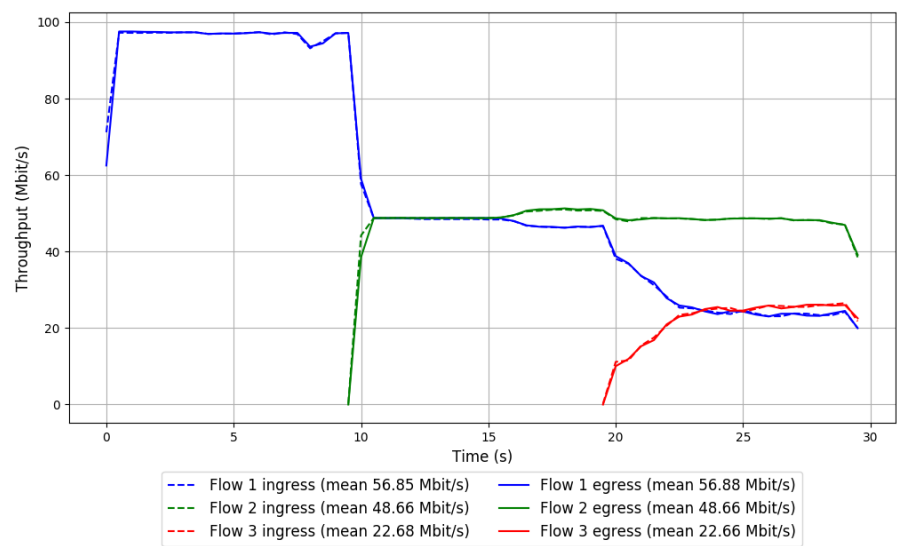
Run 6: Statistics of TCP Vegas

Start at: 2018-01-26 12:27:57  
End at: 2018-01-26 12:28:27  
Local clock offset: 3.705 ms  
Remote clock offset: -11.142 ms

# Below is generated by plot.py at 2018-01-26 17:19:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.84 Mbit/s  
95th percentile per-packet one-way delay: 60.704 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 56.88 Mbit/s  
95th percentile per-packet one-way delay: 60.441 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 48.66 Mbit/s  
95th percentile per-packet one-way delay: 60.814 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 22.66 Mbit/s  
95th percentile per-packet one-way delay: 39.958 ms  
Loss rate: 0.37%



Run 6: Report of TCP Vegas — Data Link

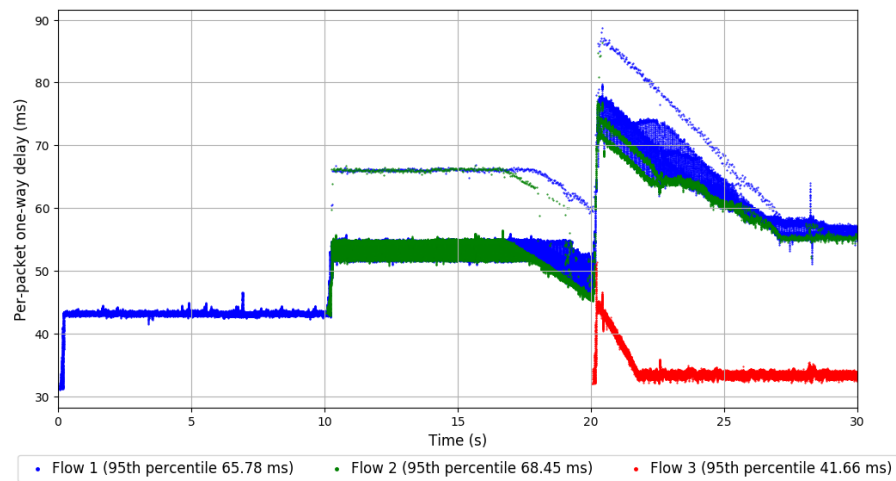
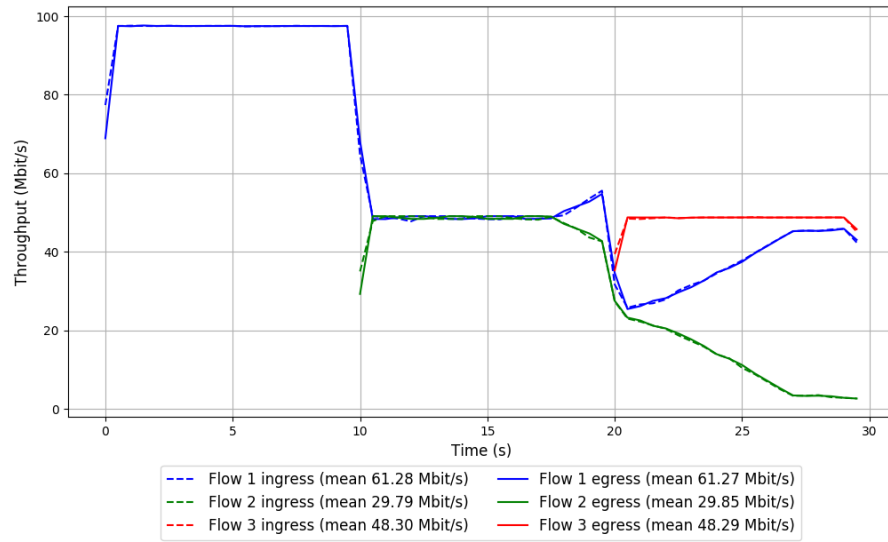


Run 7: Statistics of TCP Vegas

Start at: 2018-01-26 12:47:42  
End at: 2018-01-26 12:48:12  
Local clock offset: 2.241 ms  
Remote clock offset: -10.826 ms

# Below is generated by plot.py at 2018-01-26 17:19:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.14 Mbit/s  
95th percentile per-packet one-way delay: 65.284 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 61.27 Mbit/s  
95th percentile per-packet one-way delay: 65.776 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 29.85 Mbit/s  
95th percentile per-packet one-way delay: 68.446 ms  
Loss rate: 0.03%  
-- Flow 3:  
Average throughput: 48.29 Mbit/s  
95th percentile per-packet one-way delay: 41.662 ms  
Loss rate: 0.27%

# Run 7: Report of TCP Vegas — Data Link

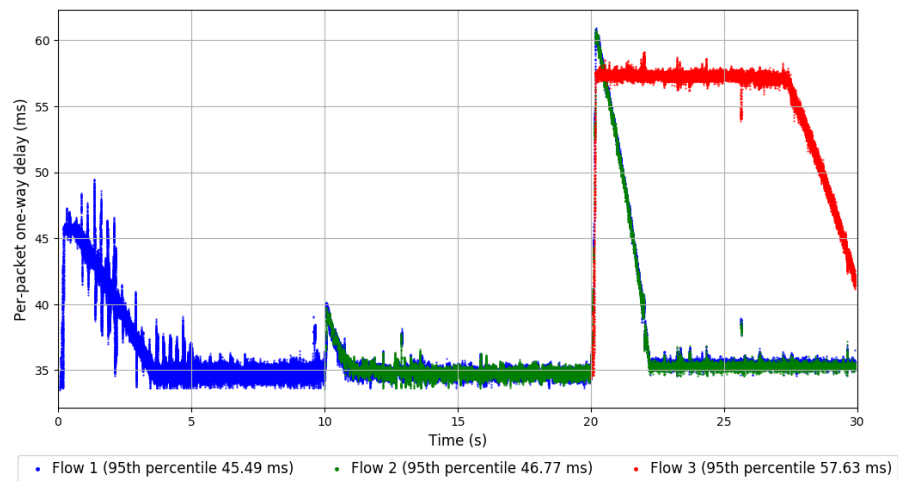
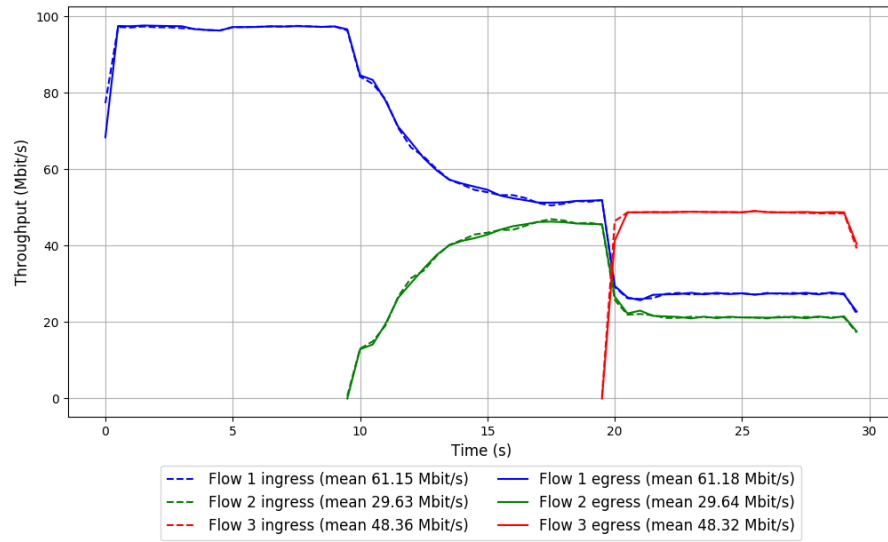


Run 8: Statistics of TCP Vegas

Start at: 2018-01-26 13:07:23  
End at: 2018-01-26 13:07:53  
Local clock offset: 3.701 ms  
Remote clock offset: -11.107 ms

# Below is generated by plot.py at 2018-01-26 17:19:42  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.02 Mbit/s  
95th percentile per-packet one-way delay: 57.433 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 61.18 Mbit/s  
95th percentile per-packet one-way delay: 45.493 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 29.64 Mbit/s  
95th percentile per-packet one-way delay: 46.769 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 48.32 Mbit/s  
95th percentile per-packet one-way delay: 57.630 ms  
Loss rate: 0.33%

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

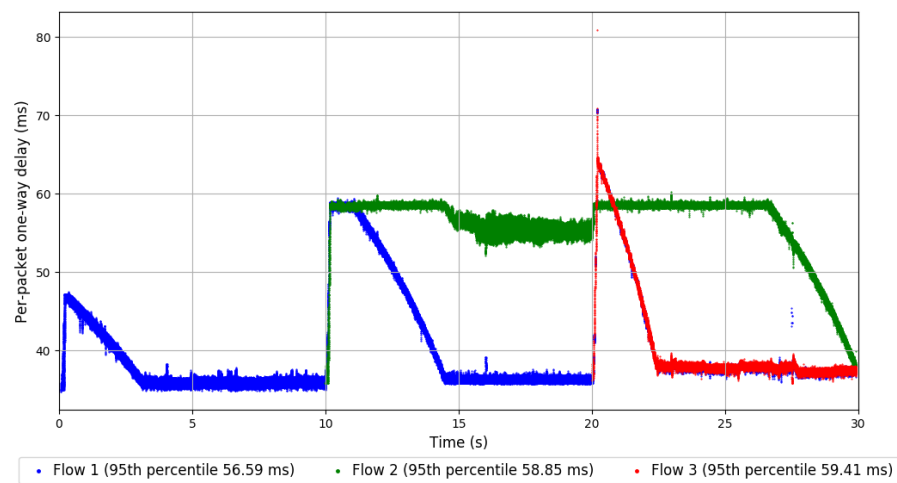
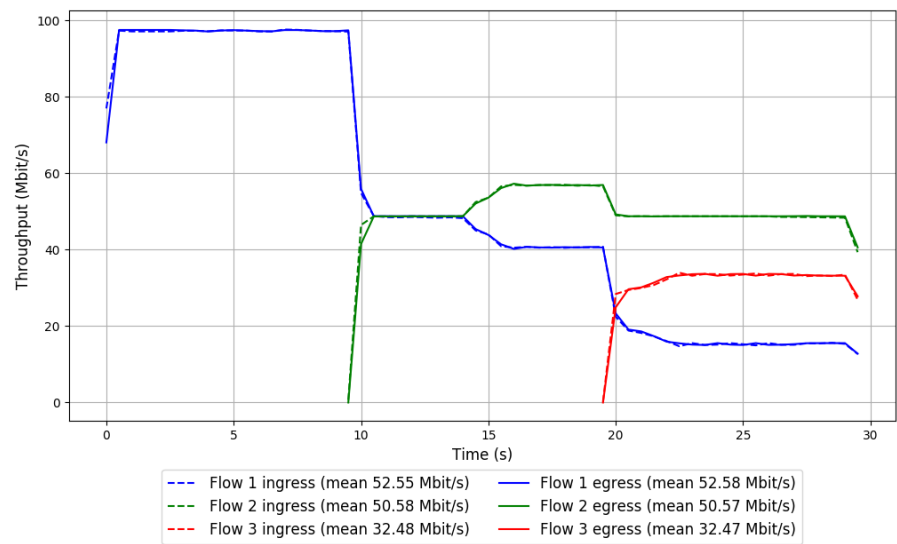


Run 9: Statistics of TCP Vegas

Start at: 2018-01-26 13:27:03  
End at: 2018-01-26 13:27:33  
Local clock offset: 3.441 ms  
Remote clock offset: -14.297 ms

# Below is generated by plot.py at 2018-01-26 17:19:44  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.10 Mbit/s  
95th percentile per-packet one-way delay: 58.784 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 52.58 Mbit/s  
95th percentile per-packet one-way delay: 56.591 ms  
Loss rate: 0.03%  
-- Flow 2:  
Average throughput: 50.57 Mbit/s  
95th percentile per-packet one-way delay: 58.851 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.47 Mbit/s  
95th percentile per-packet one-way delay: 59.405 ms  
Loss rate: 0.29%

Run 9: Report of TCP Vegas — Data Link



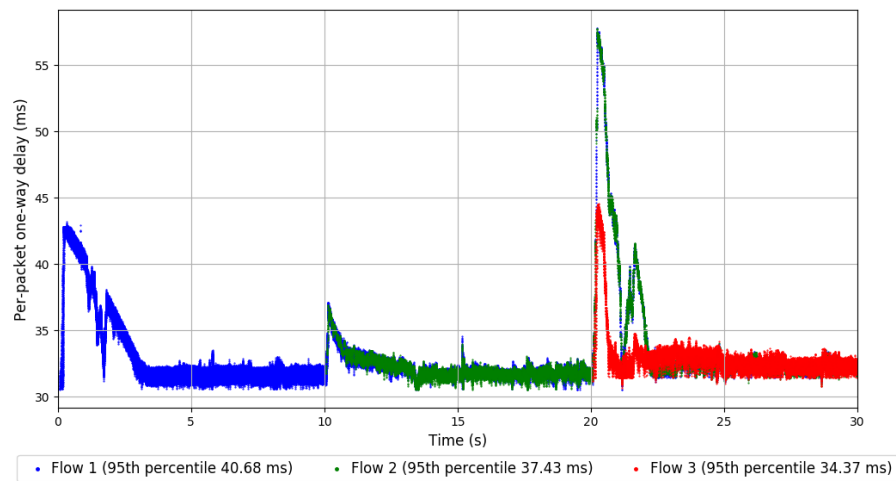
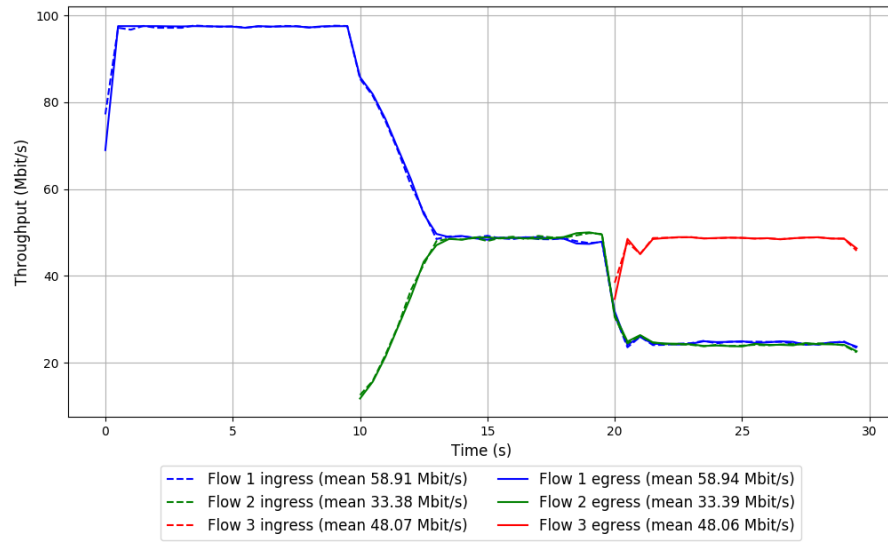
Run 10: Statistics of TCP Vegas

Start at: 2018-01-26 13:46:45  
End at: 2018-01-26 13:47:15  
Local clock offset: 0.458 ms  
Remote clock offset: -13.91 ms

# Below is generated by plot.py at 2018-01-26 17:19:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 97.10 Mbit/s  
95th percentile per-packet one-way delay: 39.915 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 58.94 Mbit/s  
95th percentile per-packet one-way delay: 40.683 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 33.39 Mbit/s  
95th percentile per-packet one-way delay: 37.430 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 48.06 Mbit/s  
95th percentile per-packet one-way delay: 34.367 ms  
Loss rate: 0.27%



# Run 10: Report of TCP Vegas — Data Link

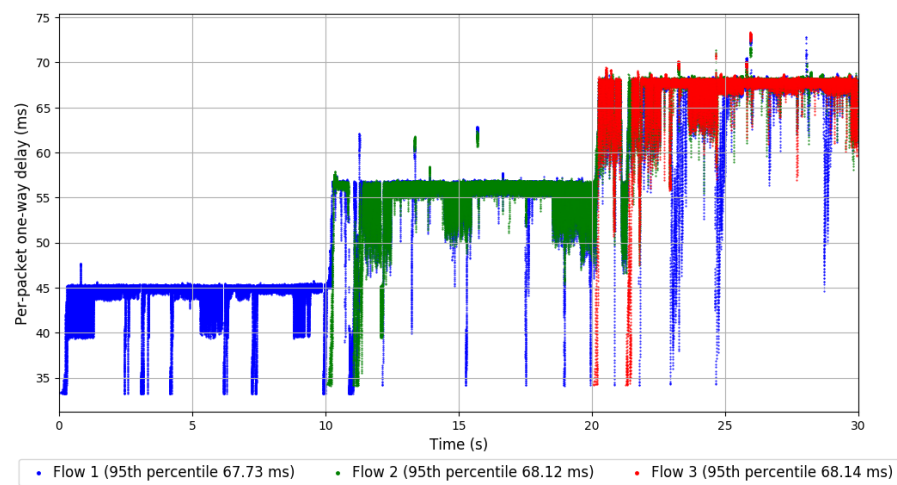
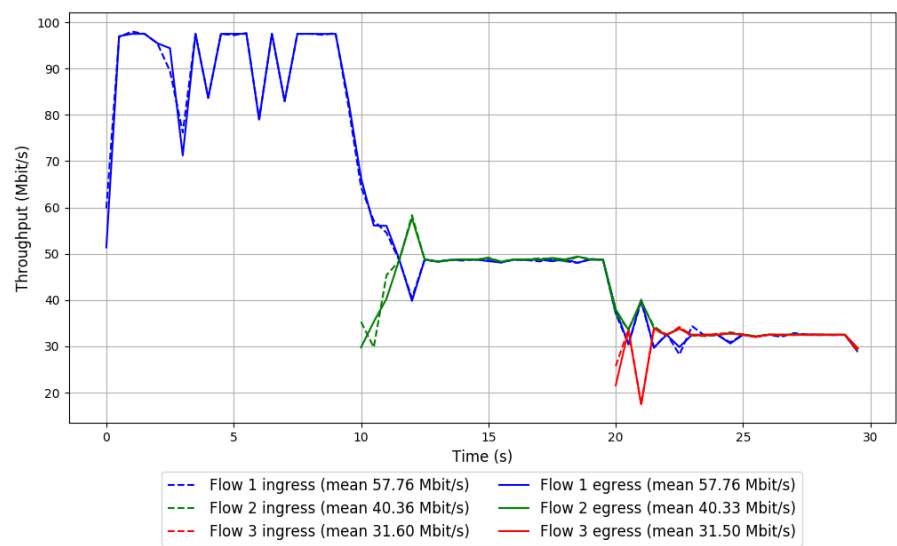


Run 1: Statistics of Verus

Start at: 2018-01-26 10:36:13  
End at: 2018-01-26 10:36:43  
Local clock offset: 3.941 ms  
Remote clock offset: -18.124 ms

# Below is generated by plot.py at 2018-01-26 17:20:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.04 Mbit/s  
95th percentile per-packet one-way delay: 68.020 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 57.76 Mbit/s  
95th percentile per-packet one-way delay: 67.733 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 40.33 Mbit/s  
95th percentile per-packet one-way delay: 68.116 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 31.50 Mbit/s  
95th percentile per-packet one-way delay: 68.135 ms  
Loss rate: 0.58%

Run 1: Report of Verus — Data Link

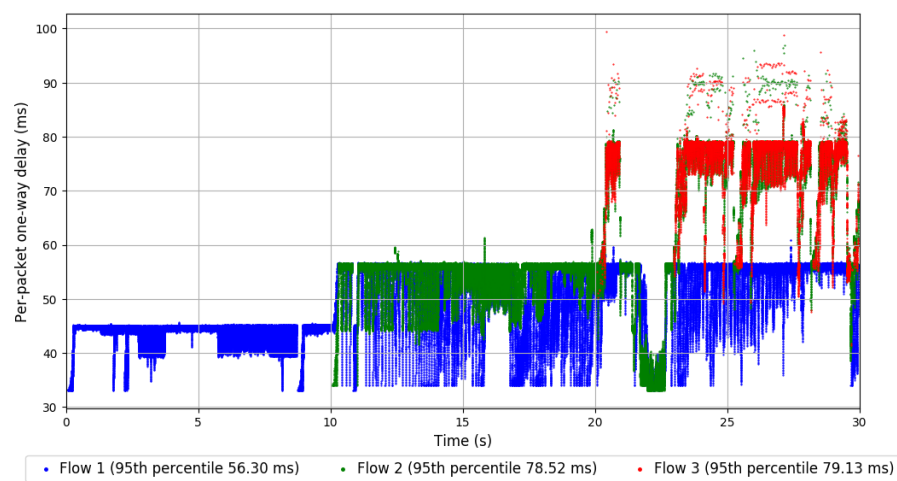
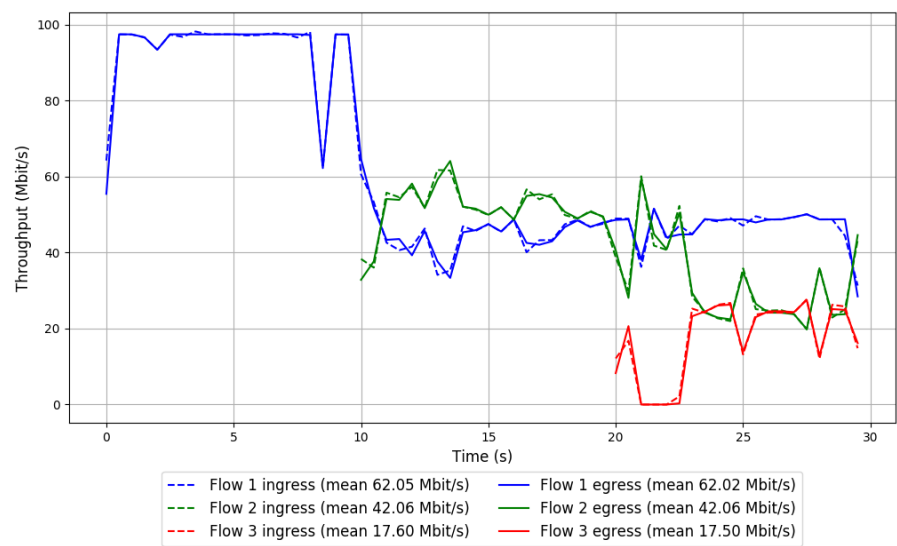


Run 2: Statistics of Verus

Start at: 2018-01-26 10:55:05  
End at: 2018-01-26 10:55:35  
Local clock offset: 5.107 ms  
Remote clock offset: -16.923 ms

# Below is generated by plot.py at 2018-01-26 17:20:22  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.80 Mbit/s  
95th percentile per-packet one-way delay: 77.532 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 62.02 Mbit/s  
95th percentile per-packet one-way delay: 56.304 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 42.06 Mbit/s  
95th percentile per-packet one-way delay: 78.524 ms  
Loss rate: 0.21%  
-- Flow 3:  
Average throughput: 17.50 Mbit/s  
95th percentile per-packet one-way delay: 79.129 ms  
Loss rate: 0.98%

Run 2: Report of Verus — Data Link

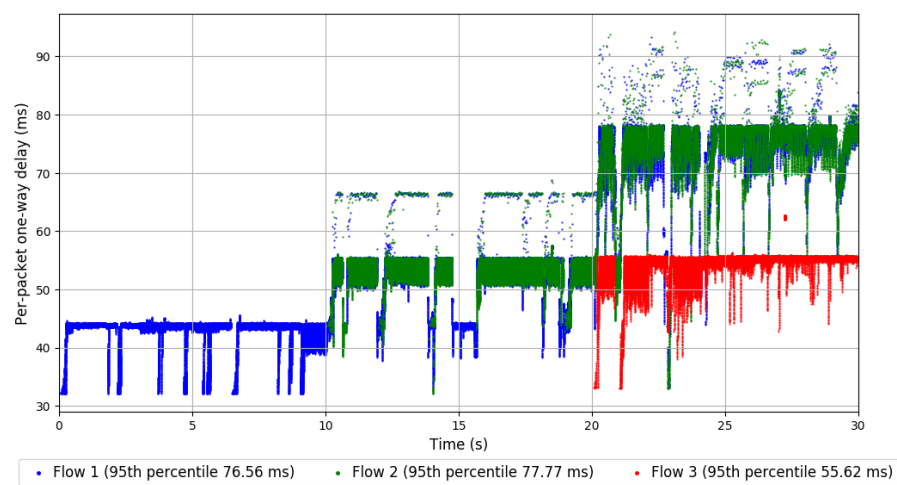
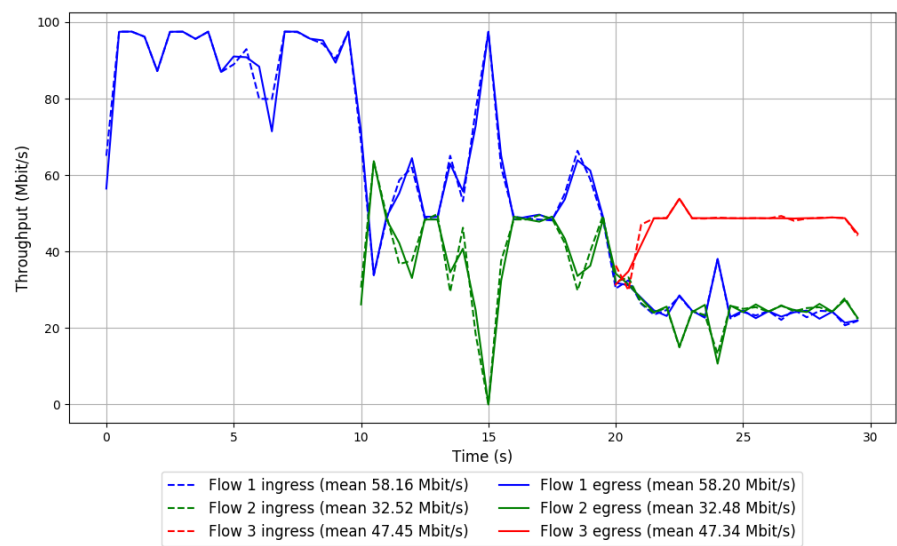


Run 3: Statistics of Verus

Start at: 2018-01-26 11:13:58  
End at: 2018-01-26 11:14:28  
Local clock offset: 2.035 ms  
Remote clock offset: -17.25 ms

# Below is generated by plot.py at 2018-01-26 17:20:38  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.45 Mbit/s  
95th percentile per-packet one-way delay: 77.081 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 58.20 Mbit/s  
95th percentile per-packet one-way delay: 76.555 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 32.48 Mbit/s  
95th percentile per-packet one-way delay: 77.773 ms  
Loss rate: 0.26%  
-- Flow 3:  
Average throughput: 47.34 Mbit/s  
95th percentile per-packet one-way delay: 55.621 ms  
Loss rate: 0.51%

Run 3: Report of Verus — Data Link



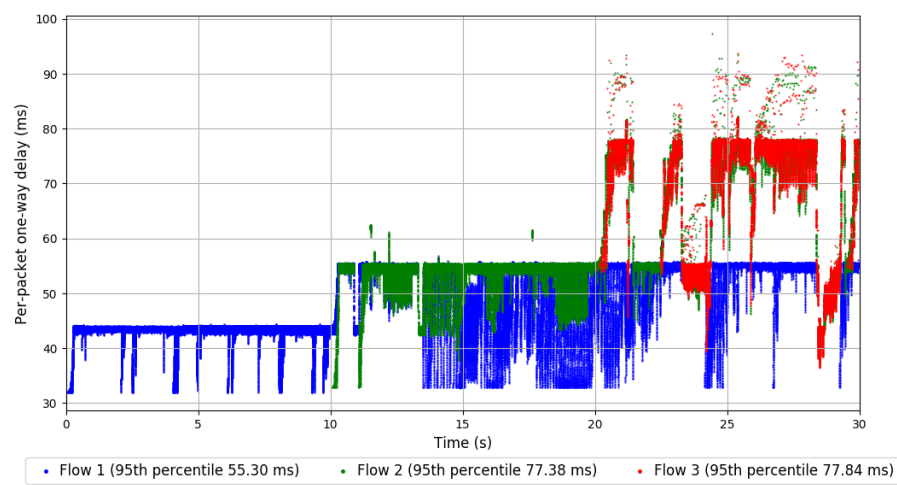
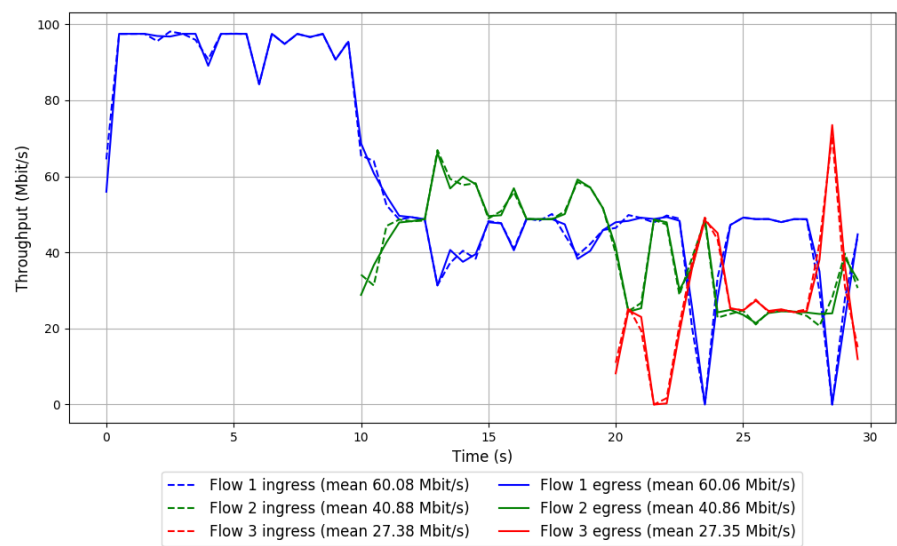
Run 4: Statistics of Verus

Start at: 2018-01-26 11:32:48  
End at: 2018-01-26 11:33:18  
Local clock offset: 3.319 ms  
Remote clock offset: -14.255 ms

# Below is generated by plot.py at 2018-01-26 17:20:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.29 Mbit/s  
95th percentile per-packet one-way delay: 76.263 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 60.06 Mbit/s  
95th percentile per-packet one-way delay: 55.299 ms  
Loss rate: 0.13%  
-- Flow 2:  
Average throughput: 40.86 Mbit/s  
95th percentile per-packet one-way delay: 77.379 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 27.35 Mbit/s  
95th percentile per-packet one-way delay: 77.837 ms  
Loss rate: 0.60%



Run 4: Report of Verus — Data Link

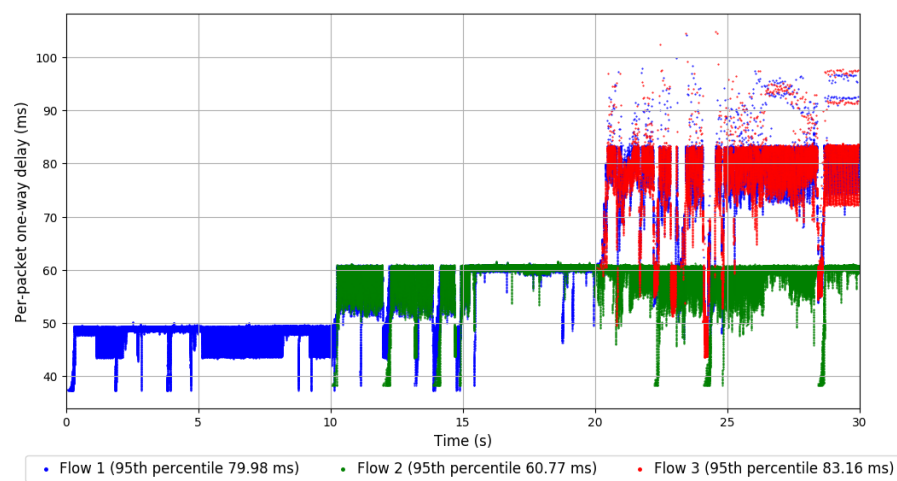
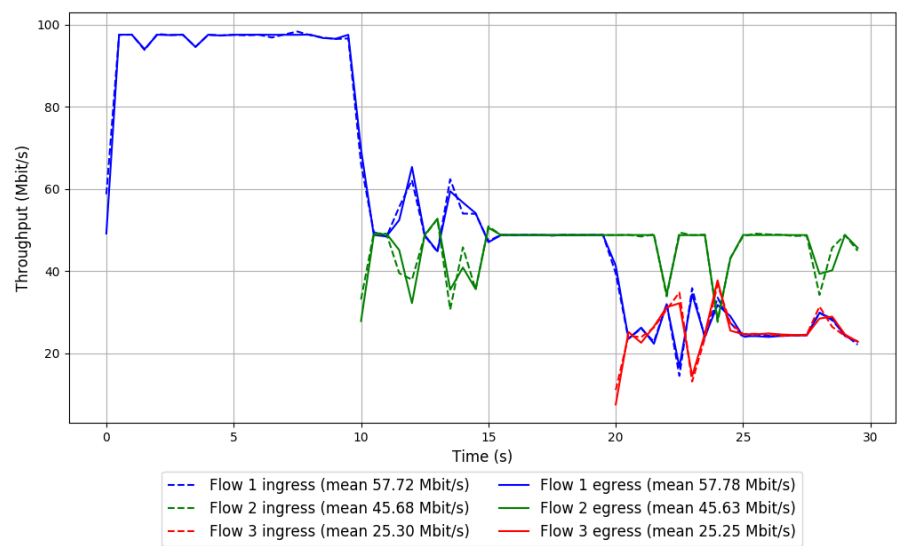


Run 5: Statistics of Verus

Start at: 2018-01-26 11:51:57  
End at: 2018-01-26 11:52:27  
Local clock offset: 3.914 ms  
Remote clock offset: -13.778 ms

# Below is generated by plot.py at 2018-01-26 17:20:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.49 Mbit/s  
95th percentile per-packet one-way delay: 80.576 ms  
Loss rate: 0.22%  
-- Flow 1:  
Average throughput: 57.78 Mbit/s  
95th percentile per-packet one-way delay: 79.983 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 45.63 Mbit/s  
95th percentile per-packet one-way delay: 60.769 ms  
Loss rate: 0.29%  
-- Flow 3:  
Average throughput: 25.25 Mbit/s  
95th percentile per-packet one-way delay: 83.157 ms  
Loss rate: 0.76%

Run 5: Report of Verus — Data Link

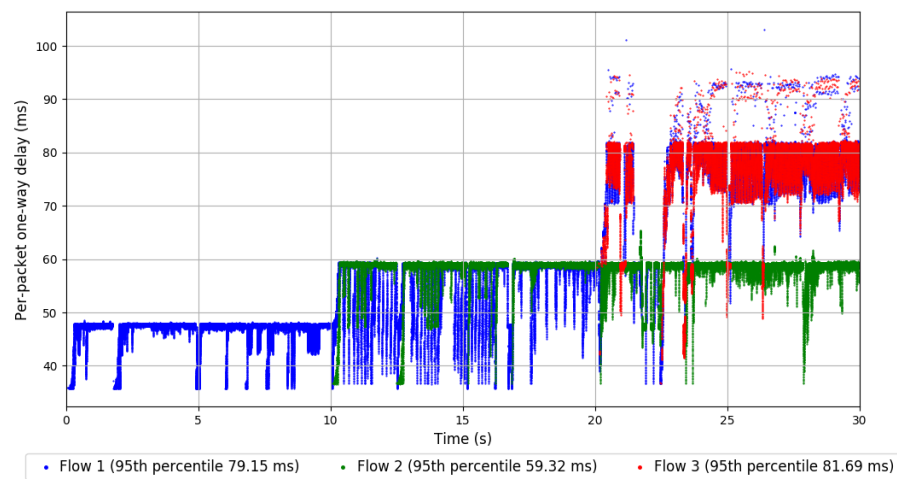
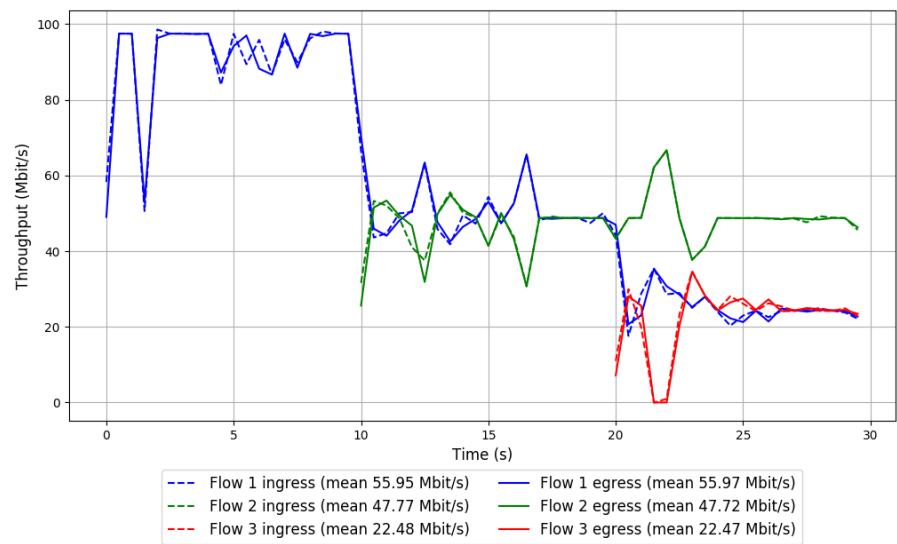


Run 6: Statistics of Verus

Start at: 2018-01-26 12:11:01  
End at: 2018-01-26 12:11:31  
Local clock offset: 2.838 ms  
Remote clock offset: -12.322 ms

# Below is generated by plot.py at 2018-01-26 17:21:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.13 Mbit/s  
95th percentile per-packet one-way delay: 79.705 ms  
Loss rate: 0.21%  
-- Flow 1:  
Average throughput: 55.97 Mbit/s  
95th percentile per-packet one-way delay: 79.147 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 47.72 Mbit/s  
95th percentile per-packet one-way delay: 59.317 ms  
Loss rate: 0.27%  
-- Flow 3:  
Average throughput: 22.47 Mbit/s  
95th percentile per-packet one-way delay: 81.688 ms  
Loss rate: 0.73%

Run 6: Report of Verus — Data Link

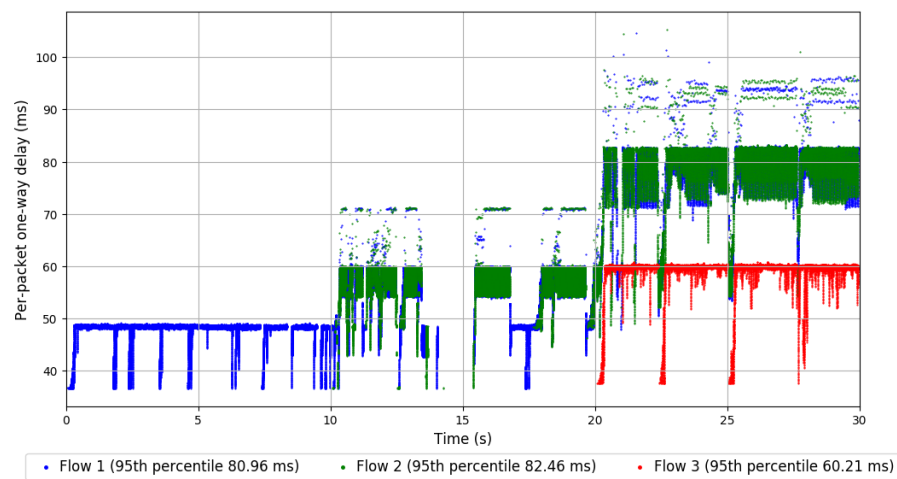
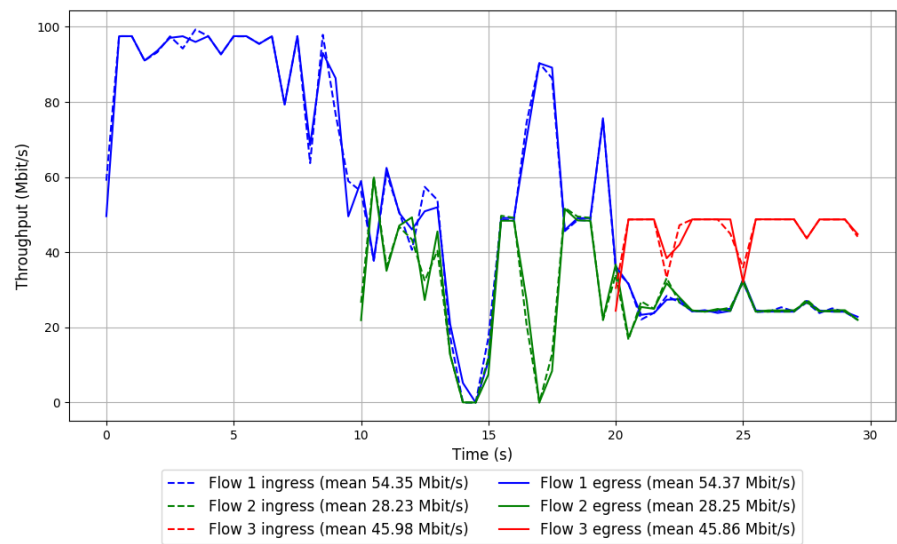


Run 7: Statistics of Verus

Start at: 2018-01-26 12:30:26  
End at: 2018-01-26 12:30:56  
Local clock offset: 1.082 ms  
Remote clock offset: -13.418 ms

# Below is generated by plot.py at 2018-01-26 17:21:10  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 88.31 Mbit/s  
95th percentile per-packet one-way delay: 81.641 ms  
Loss rate: 0.23%  
-- Flow 1:  
Average throughput: 54.37 Mbit/s  
95th percentile per-packet one-way delay: 80.963 ms  
Loss rate: 0.10%  
-- Flow 2:  
Average throughput: 28.25 Mbit/s  
95th percentile per-packet one-way delay: 82.457 ms  
Loss rate: 0.31%  
-- Flow 3:  
Average throughput: 45.86 Mbit/s  
95th percentile per-packet one-way delay: 60.206 ms  
Loss rate: 0.57%

Run 7: Report of Verus — Data Link



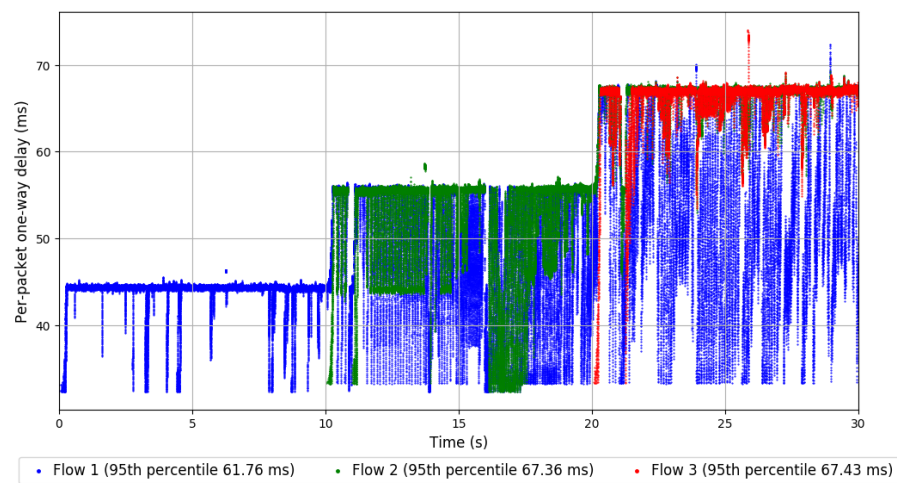
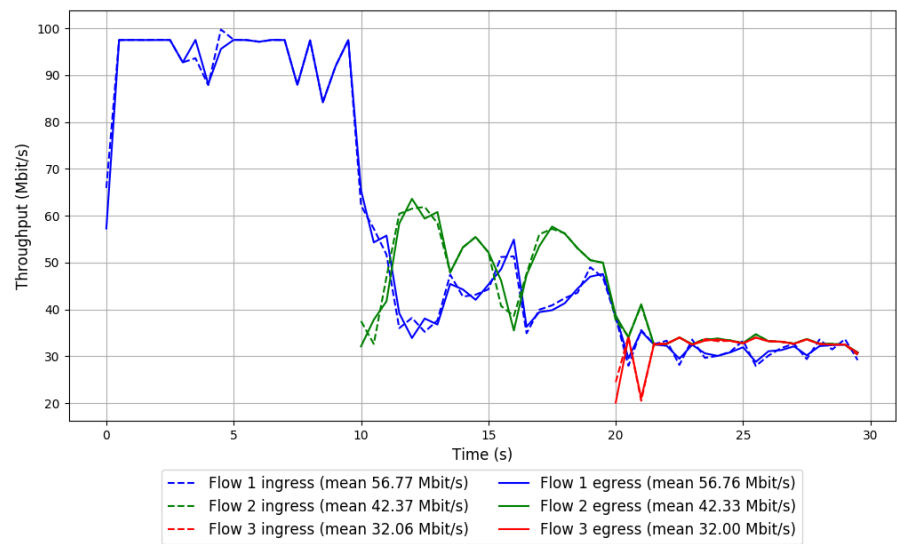
Run 8: Statistics of Verus

Start at: 2018-01-26 12:50:10  
End at: 2018-01-26 12:50:40  
Local clock offset: 2.672 ms  
Remote clock offset: -11.445 ms

# Below is generated by plot.py at 2018-01-26 17:21:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.53 Mbit/s  
95th percentile per-packet one-way delay: 67.297 ms  
Loss rate: 0.19%  
-- Flow 1:  
Average throughput: 56.76 Mbit/s  
95th percentile per-packet one-way delay: 61.759 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 42.33 Mbit/s  
95th percentile per-packet one-way delay: 67.365 ms  
Loss rate: 0.23%  
-- Flow 3:  
Average throughput: 32.00 Mbit/s  
95th percentile per-packet one-way delay: 67.433 ms  
Loss rate: 0.61%



Run 8: Report of Verus — Data Link

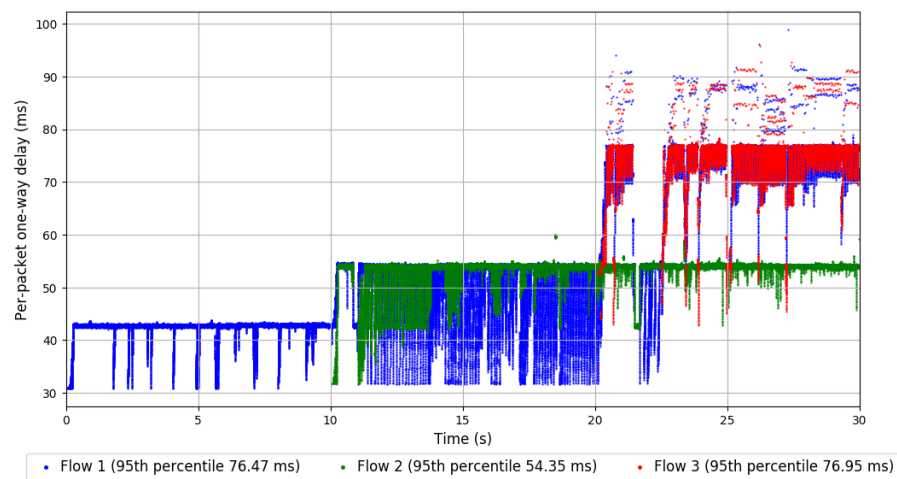
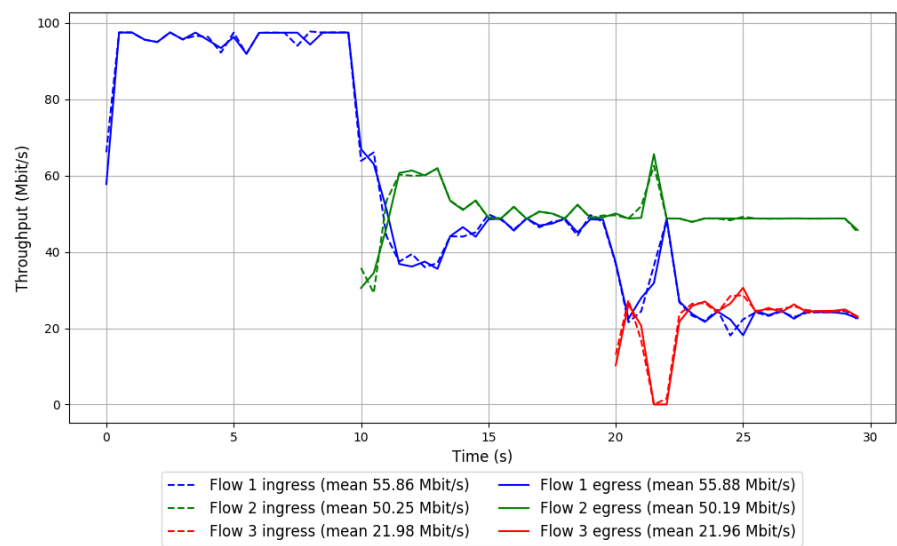


Run 9: Statistics of Verus

Start at: 2018-01-26 13:09:52  
End at: 2018-01-26 13:10:22  
Local clock offset: 1.292 ms  
Remote clock offset: -10.883 ms

# Below is generated by plot.py at 2018-01-26 17:21:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.54 Mbit/s  
95th percentile per-packet one-way delay: 76.628 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 55.88 Mbit/s  
95th percentile per-packet one-way delay: 76.466 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 50.19 Mbit/s  
95th percentile per-packet one-way delay: 54.352 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 21.96 Mbit/s  
95th percentile per-packet one-way delay: 76.947 ms  
Loss rate: 0.76%

Run 9: Report of Verus — Data Link

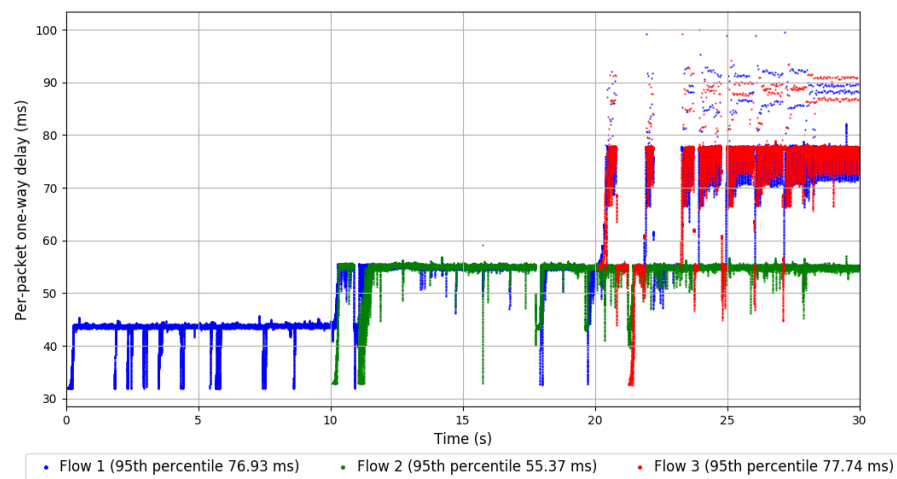
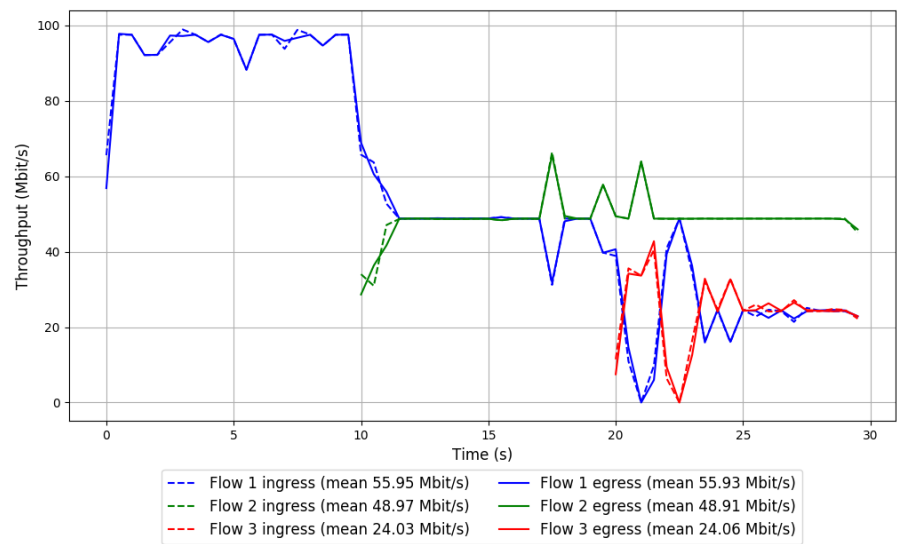


Run 10: Statistics of Verus

Start at: 2018-01-26 13:29:35  
End at: 2018-01-26 13:30:05  
Local clock offset: 1.221 ms  
Remote clock offset: -13.123 ms

# Below is generated by plot.py at 2018-01-26 17:21:48  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.42 Mbit/s  
95th percentile per-packet one-way delay: 77.330 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 55.93 Mbit/s  
95th percentile per-packet one-way delay: 76.934 ms  
Loss rate: 0.11%  
-- Flow 2:  
Average throughput: 48.91 Mbit/s  
95th percentile per-packet one-way delay: 55.365 ms  
Loss rate: 0.24%  
-- Flow 3:  
Average throughput: 24.06 Mbit/s  
95th percentile per-packet one-way delay: 77.738 ms  
Loss rate: 0.71%

Run 10: Report of Verus — Data Link

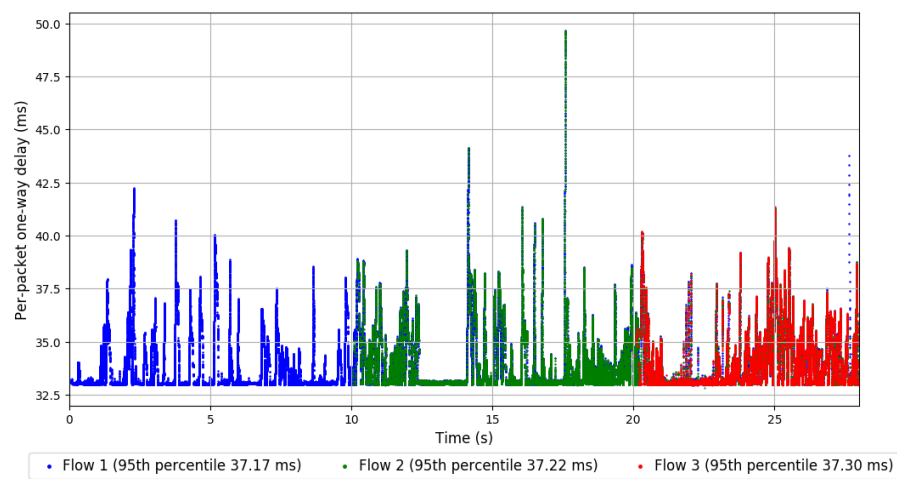
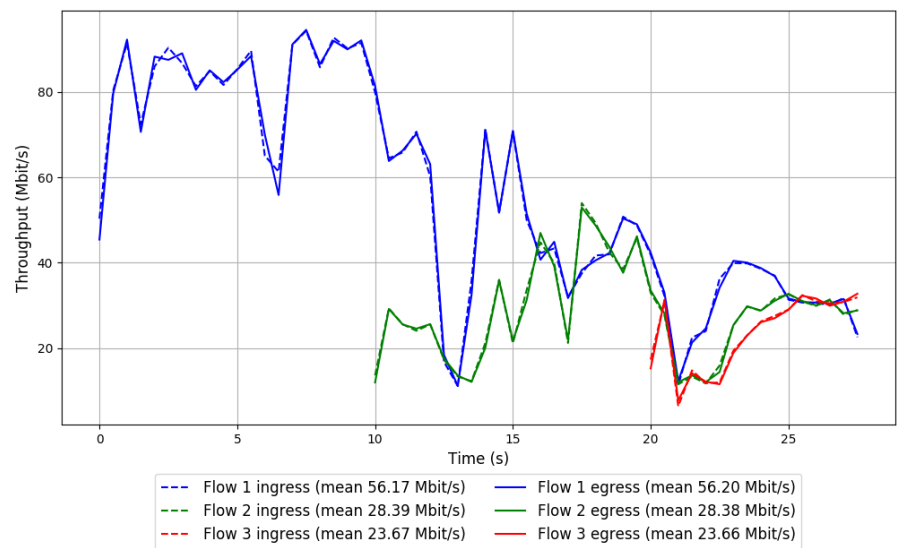


Run 1: Statistics of Copa

Start at: 2018-01-26 10:49:14  
End at: 2018-01-26 10:49:44  
Local clock offset: 3.333 ms  
Remote clock offset: -18.669 ms

# Below is generated by plot.py at 2018-01-26 17:22:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 81.10 Mbit/s  
95th percentile per-packet one-way delay: 37.188 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 56.20 Mbit/s  
95th percentile per-packet one-way delay: 37.166 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 28.38 Mbit/s  
95th percentile per-packet one-way delay: 37.220 ms  
Loss rate: 0.20%  
-- Flow 3:  
Average throughput: 23.66 Mbit/s  
95th percentile per-packet one-way delay: 37.300 ms  
Loss rate: 0.40%

Run 1: Report of Copa — Data Link



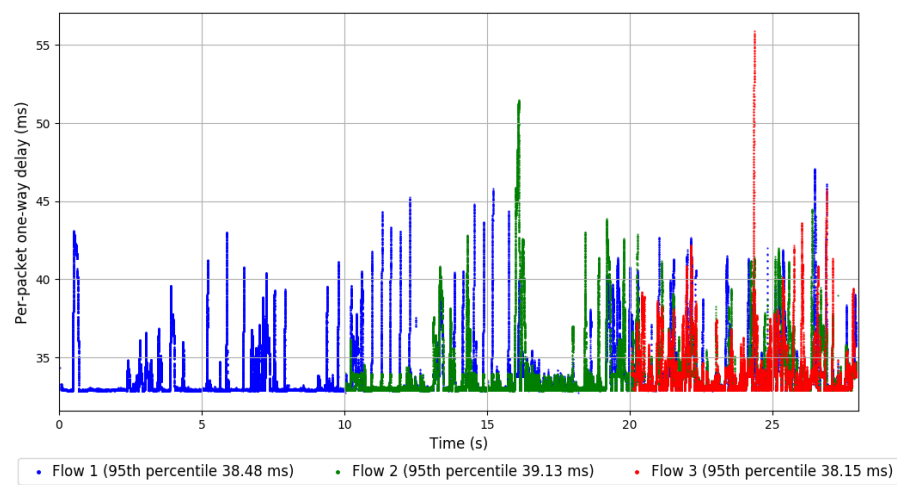
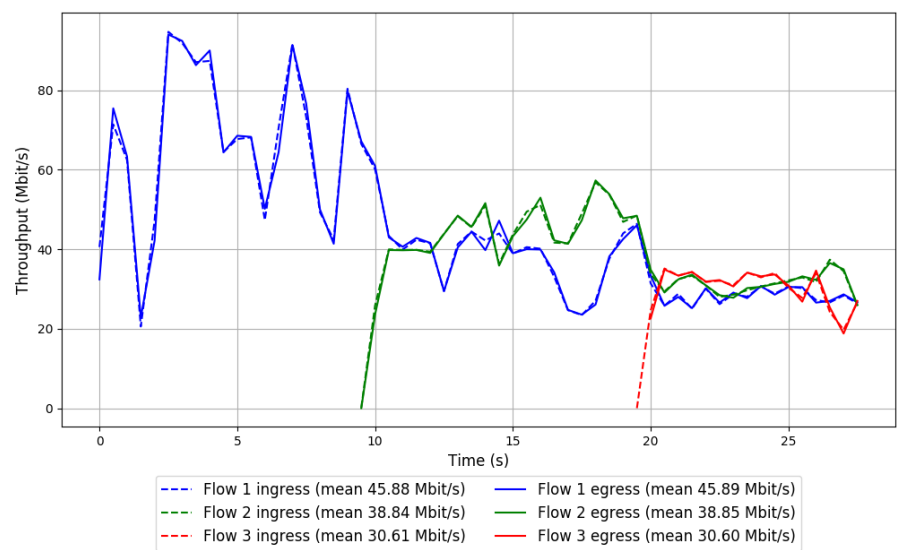
Run 2: Statistics of Copa

Start at: 2018-01-26 11:08:00  
End at: 2018-01-26 11:08:30  
Local clock offset: 4.359 ms  
Remote clock offset: -16.012 ms

# Below is generated by plot.py at 2018-01-26 17:22:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 79.54 Mbit/s  
95th percentile per-packet one-way delay: 38.651 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 45.89 Mbit/s  
95th percentile per-packet one-way delay: 38.475 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 38.85 Mbit/s  
95th percentile per-packet one-way delay: 39.135 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 30.60 Mbit/s  
95th percentile per-packet one-way delay: 38.148 ms  
Loss rate: 0.34%



Run 2: Report of Copa — Data Link

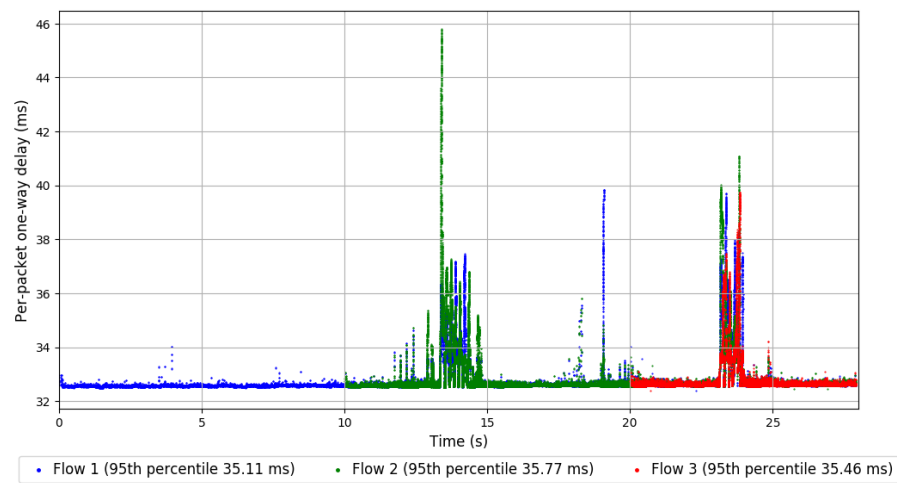
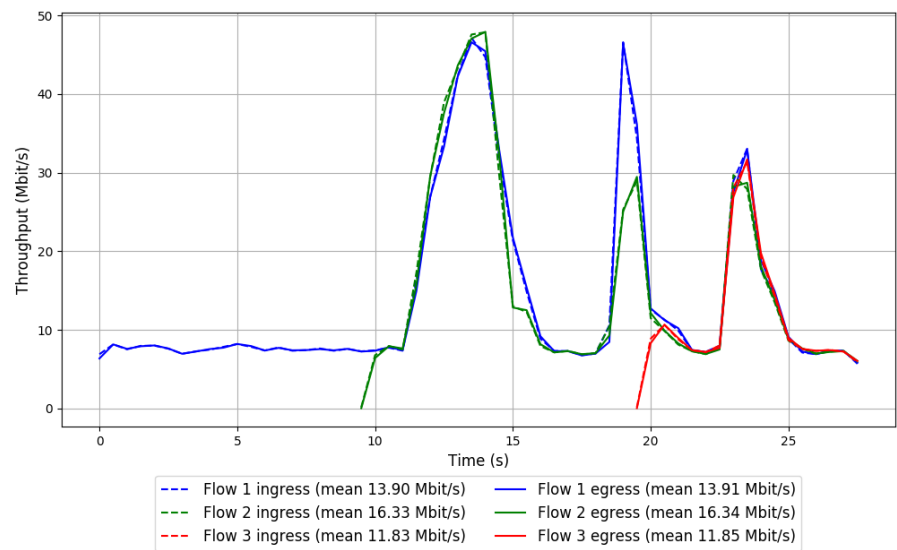


Run 3: Statistics of Copa

Start at: 2018-01-26 11:26:56  
End at: 2018-01-26 11:27:26  
Local clock offset: 3.189 ms  
Remote clock offset: -15.645 ms

# Below is generated by plot.py at 2018-01-26 17:22:41  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 27.78 Mbit/s  
95th percentile per-packet one-way delay: 35.367 ms  
Loss rate: 0.07%  
-- Flow 1:  
Average throughput: 13.91 Mbit/s  
95th percentile per-packet one-way delay: 35.109 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 16.34 Mbit/s  
95th percentile per-packet one-way delay: 35.770 ms  
Loss rate: 0.06%  
-- Flow 3:  
Average throughput: 11.85 Mbit/s  
95th percentile per-packet one-way delay: 35.456 ms  
Loss rate: 0.18%

Run 3: Report of Copa — Data Link

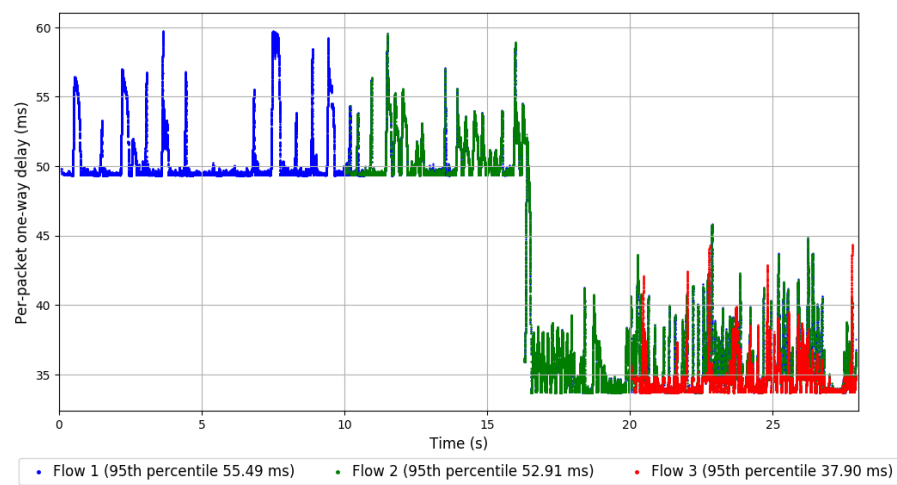
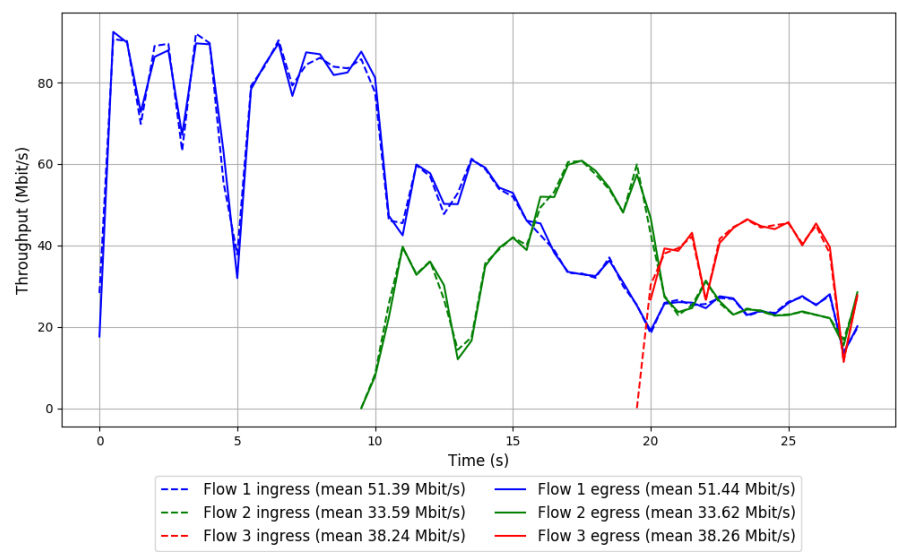


Run 4: Statistics of Copa

Start at: 2018-01-26 11:46:00  
End at: 2018-01-26 11:46:30  
Local clock offset: 4.262 ms  
Remote clock offset: -14.628 ms

# Below is generated by plot.py at 2018-01-26 17:23:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 83.90 Mbit/s  
95th percentile per-packet one-way delay: 54.258 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 51.44 Mbit/s  
95th percentile per-packet one-way delay: 55.487 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 33.62 Mbit/s  
95th percentile per-packet one-way delay: 52.906 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 38.26 Mbit/s  
95th percentile per-packet one-way delay: 37.901 ms  
Loss rate: 0.28%

Run 4: Report of Copa — Data Link

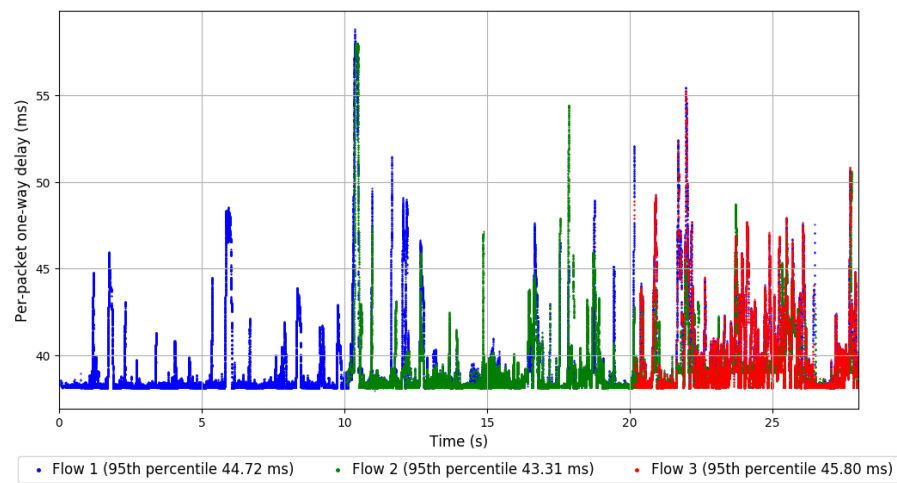
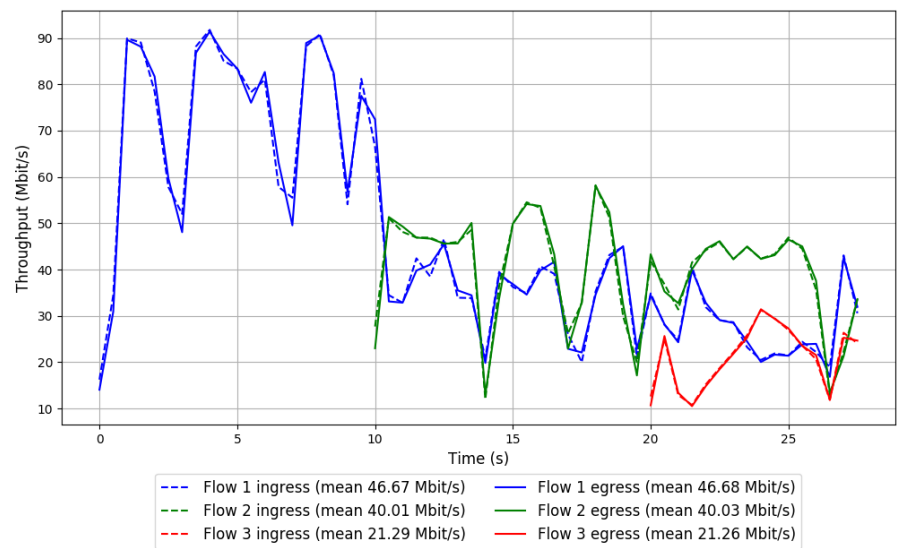


Run 5: Statistics of Copa

Start at: 2018-01-26 12:05:02  
End at: 2018-01-26 12:05:32  
Local clock offset: 5.389 ms  
Remote clock offset: -12.276 ms

# Below is generated by plot.py at 2018-01-26 17:23:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 78.36 Mbit/s  
95th percentile per-packet one-way delay: 44.444 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 46.68 Mbit/s  
95th percentile per-packet one-way delay: 44.717 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 40.03 Mbit/s  
95th percentile per-packet one-way delay: 43.309 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 21.26 Mbit/s  
95th percentile per-packet one-way delay: 45.798 ms  
Loss rate: 0.50%

Run 5: Report of Copa — Data Link



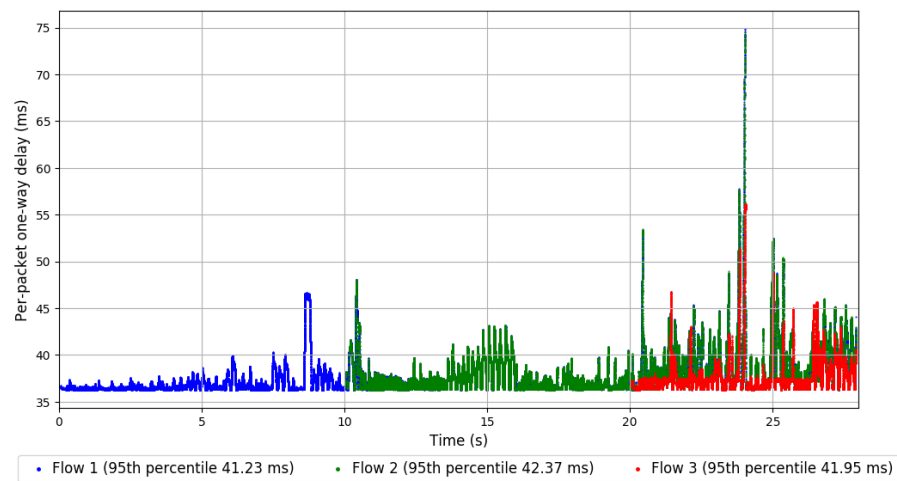
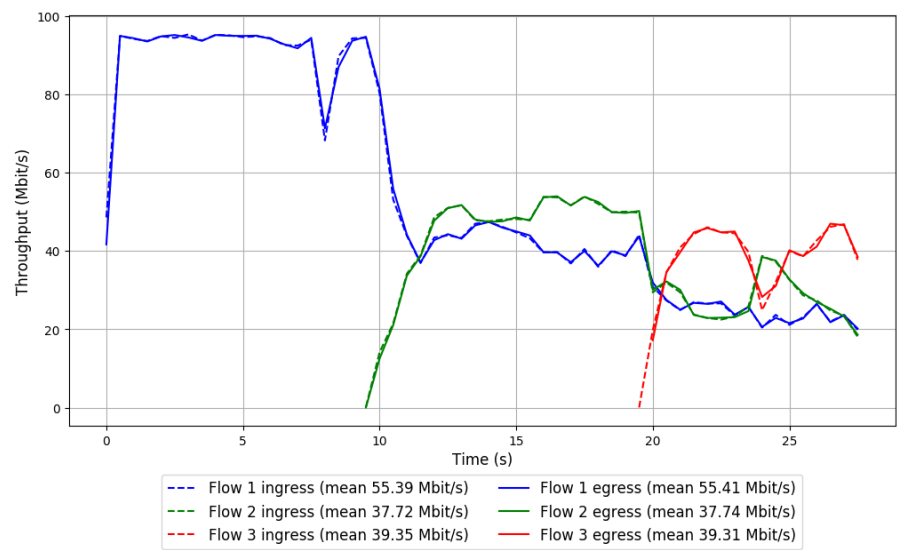
Run 6: Statistics of Copa

Start at: 2018-01-26 12:24:16  
End at: 2018-01-26 12:24:46  
Local clock offset: 3.722 ms  
Remote clock offset: -10.672 ms

# Below is generated by plot.py at 2018-01-26 17:23:32  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 90.82 Mbit/s  
95th percentile per-packet one-way delay: 41.722 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 55.41 Mbit/s  
95th percentile per-packet one-way delay: 41.233 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 37.74 Mbit/s  
95th percentile per-packet one-way delay: 42.372 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 39.31 Mbit/s  
95th percentile per-packet one-way delay: 41.945 ms  
Loss rate: 0.49%



Run 6: Report of Copa — Data Link

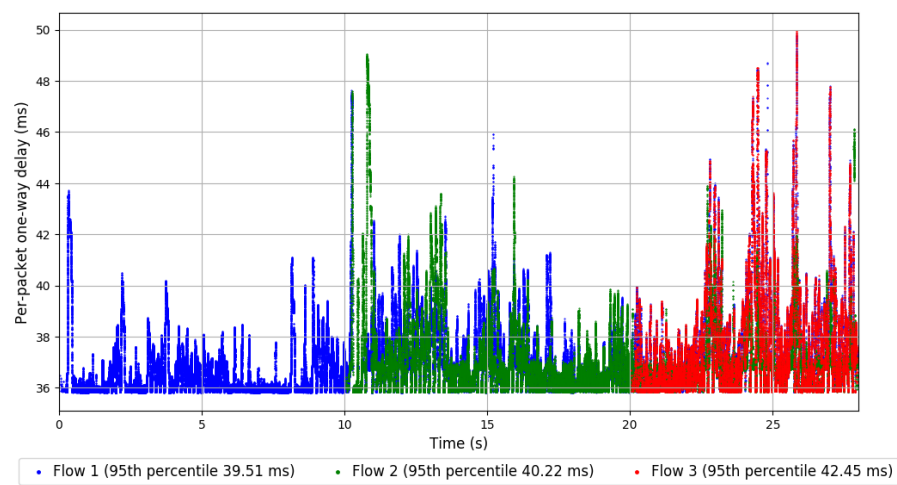
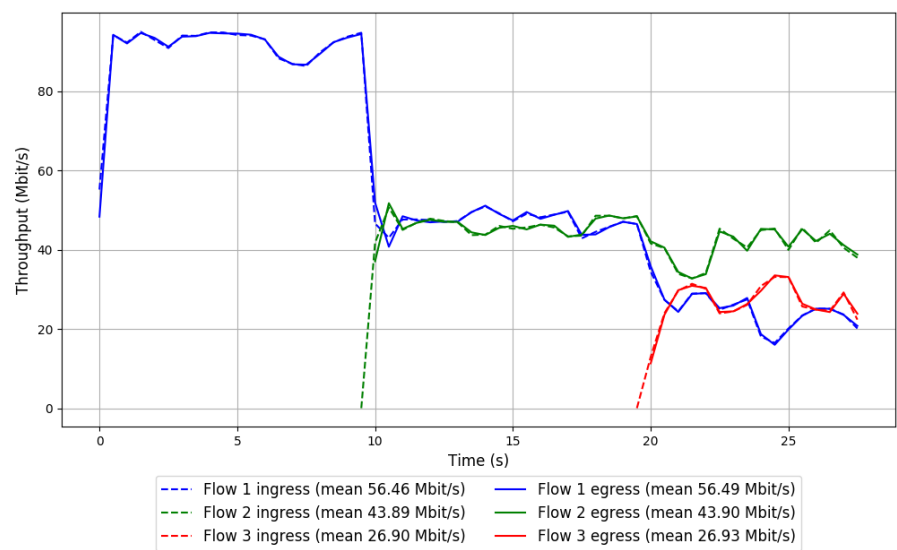


Run 7: Statistics of Copa

Start at: 2018-01-26 12:43:53  
End at: 2018-01-26 12:44:23  
Local clock offset: 5.704 ms  
Remote clock offset: -12.191 ms

# Below is generated by plot.py at 2018-01-26 17:24:00  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.32 Mbit/s  
95th percentile per-packet one-way delay: 39.991 ms  
Loss rate: 0.08%  
-- Flow 1:  
Average throughput: 56.49 Mbit/s  
95th percentile per-packet one-way delay: 39.513 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 43.90 Mbit/s  
95th percentile per-packet one-way delay: 40.217 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 26.93 Mbit/s  
95th percentile per-packet one-way delay: 42.449 ms  
Loss rate: 0.19%

Run 7: Report of Copa — Data Link

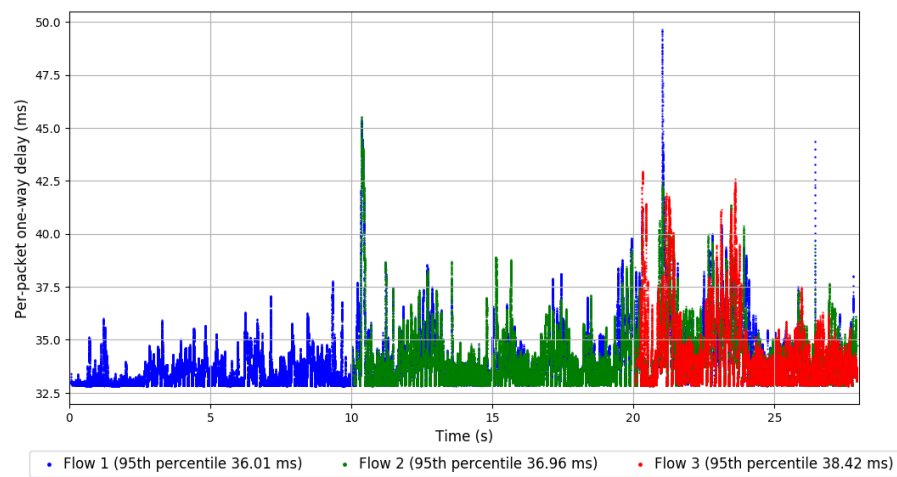
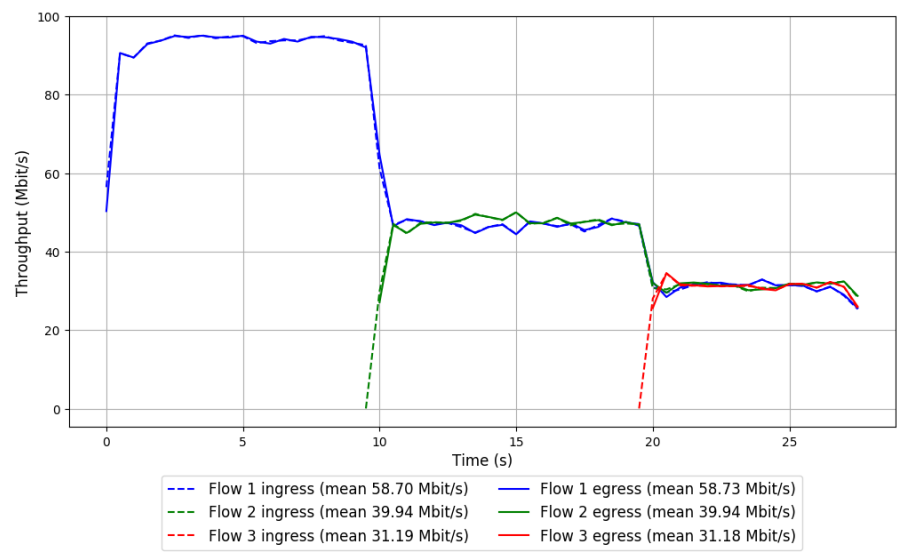


Run 8: Statistics of Copa

Start at: 2018-01-26 13:03:34  
End at: 2018-01-26 13:04:04  
Local clock offset: 3.249 ms  
Remote clock offset: -10.785 ms

# Below is generated by plot.py at 2018-01-26 17:24:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.22 Mbit/s  
95th percentile per-packet one-way delay: 36.578 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 58.73 Mbit/s  
95th percentile per-packet one-way delay: 36.010 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 39.94 Mbit/s  
95th percentile per-packet one-way delay: 36.959 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 31.18 Mbit/s  
95th percentile per-packet one-way delay: 38.417 ms  
Loss rate: 0.35%

Run 8: Report of Copa — Data Link

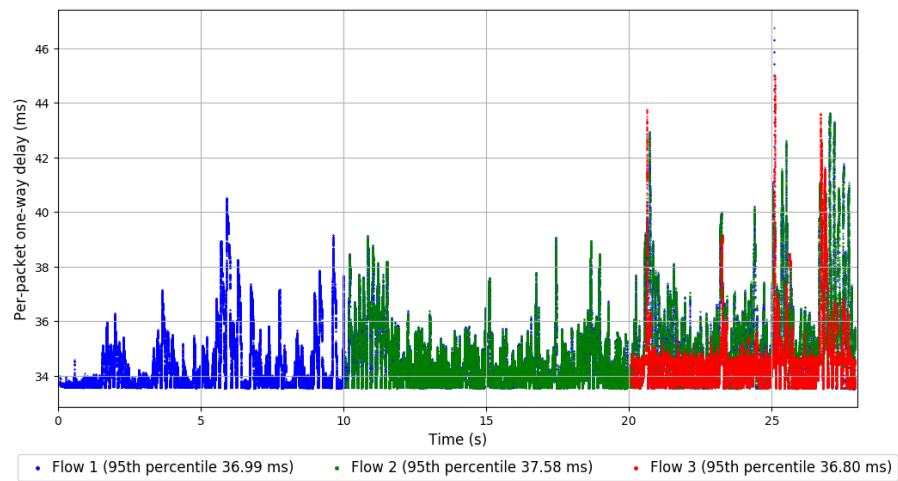
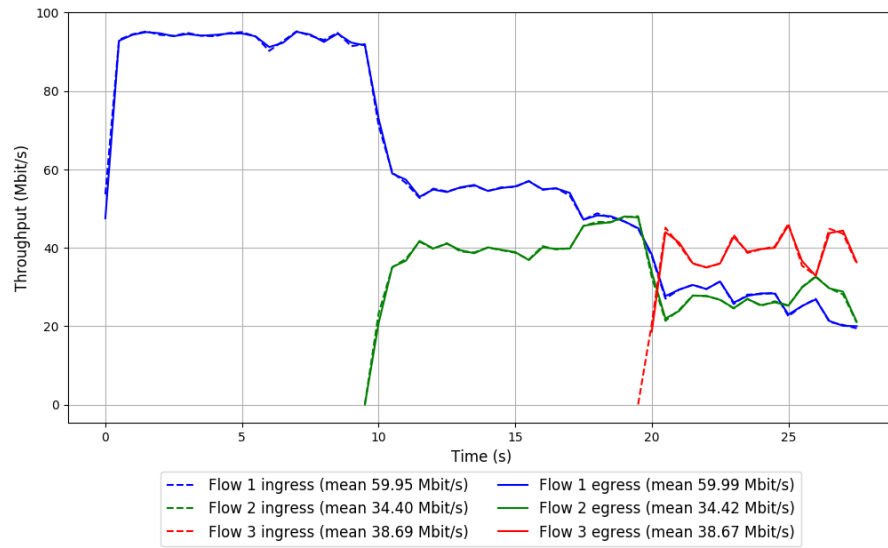


Run 9: Statistics of Copa

Start at: 2018-01-26 13:23:13  
End at: 2018-01-26 13:23:43  
Local clock offset: 3.229 ms  
Remote clock offset: -13.064 ms

# Below is generated by plot.py at 2018-01-26 17:24:11  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.07 Mbit/s  
95th percentile per-packet one-way delay: 37.112 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 59.99 Mbit/s  
95th percentile per-packet one-way delay: 36.987 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 34.42 Mbit/s  
95th percentile per-packet one-way delay: 37.584 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 38.67 Mbit/s  
95th percentile per-packet one-way delay: 36.796 ms  
Loss rate: 0.35%

## Run 9: Report of Copa — Data Link



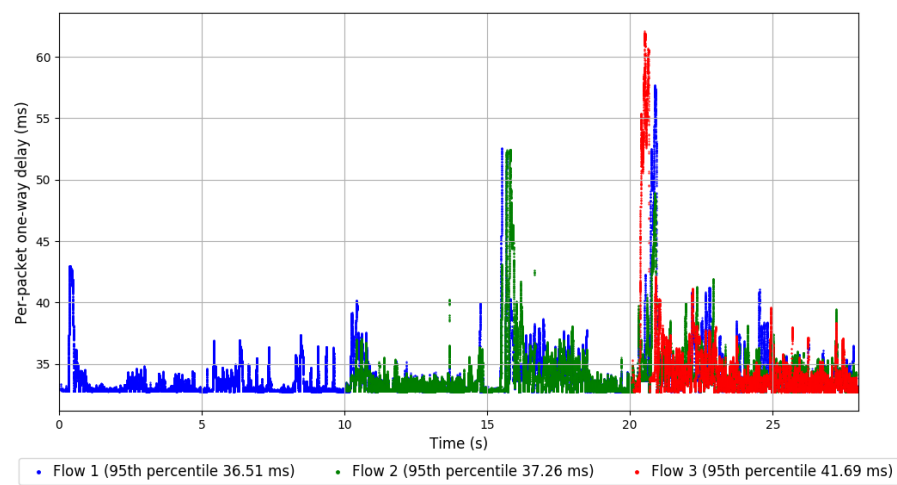
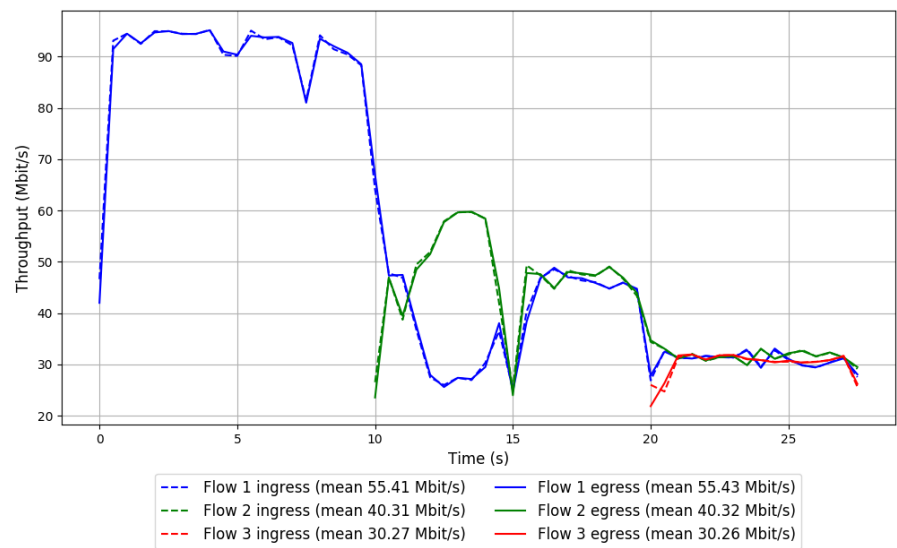
Run 10: Statistics of Copa

Start at: 2018-01-26 13:43:00  
End at: 2018-01-26 13:43:30  
Local clock offset: 3.305 ms  
Remote clock offset: -12.902 ms

# Below is generated by plot.py at 2018-01-26 17:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.88 Mbit/s  
95th percentile per-packet one-way delay: 36.961 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 55.43 Mbit/s  
95th percentile per-packet one-way delay: 36.511 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.32 Mbit/s  
95th percentile per-packet one-way delay: 37.257 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 30.26 Mbit/s  
95th percentile per-packet one-way delay: 41.685 ms  
Loss rate: 0.33%



Run 10: Report of Copa — Data Link

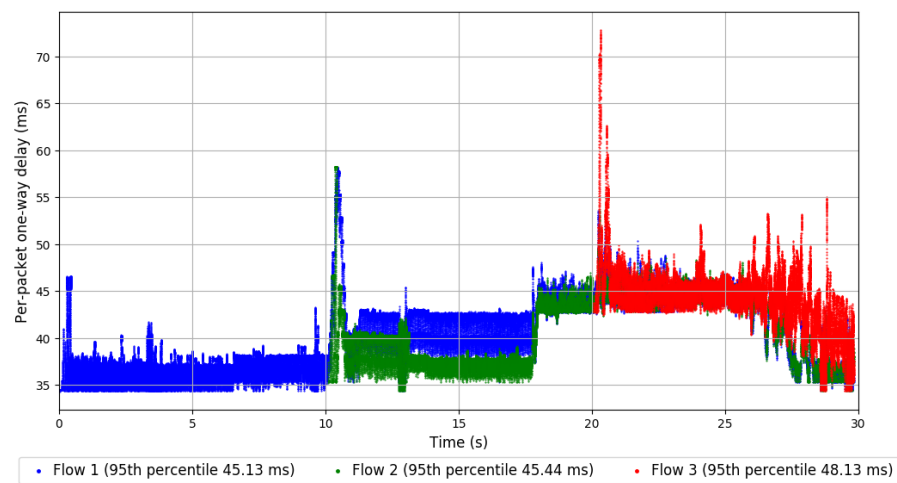
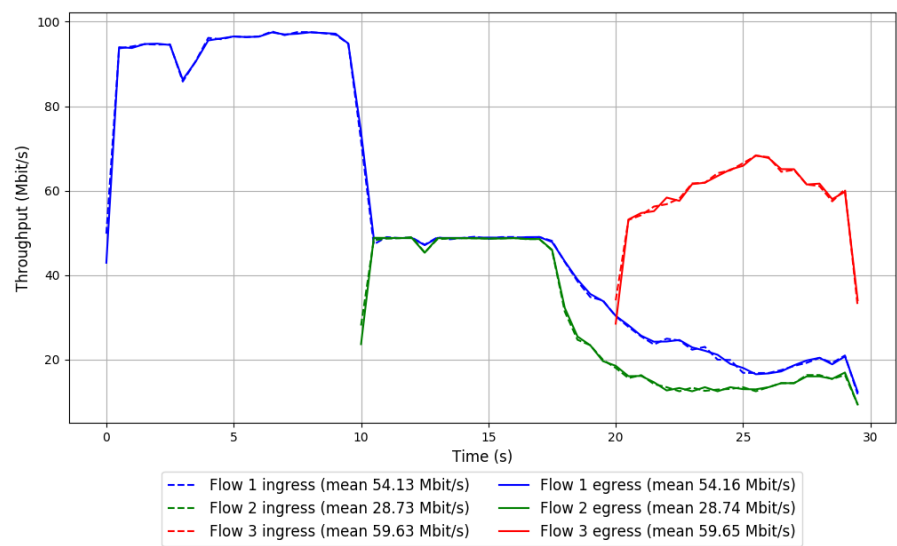


Run 1: Statistics of Indigo-2-256

Start at: 2018-01-26 10:41:01  
End at: 2018-01-26 10:41:31  
Local clock offset: 4.806 ms  
Remote clock offset: -18.466 ms

# Below is generated by plot.py at 2018-01-26 17:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 92.74 Mbit/s  
95th percentile per-packet one-way delay: 46.200 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 54.16 Mbit/s  
95th percentile per-packet one-way delay: 45.131 ms  
Loss rate: 0.04%  
-- Flow 2:  
Average throughput: 28.74 Mbit/s  
95th percentile per-packet one-way delay: 45.439 ms  
Loss rate: 0.08%  
-- Flow 3:  
Average throughput: 59.65 Mbit/s  
95th percentile per-packet one-way delay: 48.134 ms  
Loss rate: 0.31%

Run 1: Report of Indigo-2-256 — Data Link

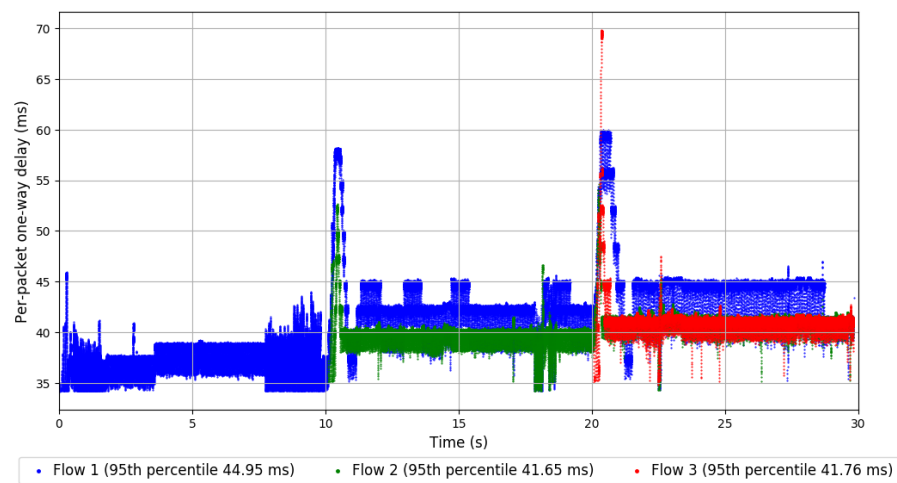
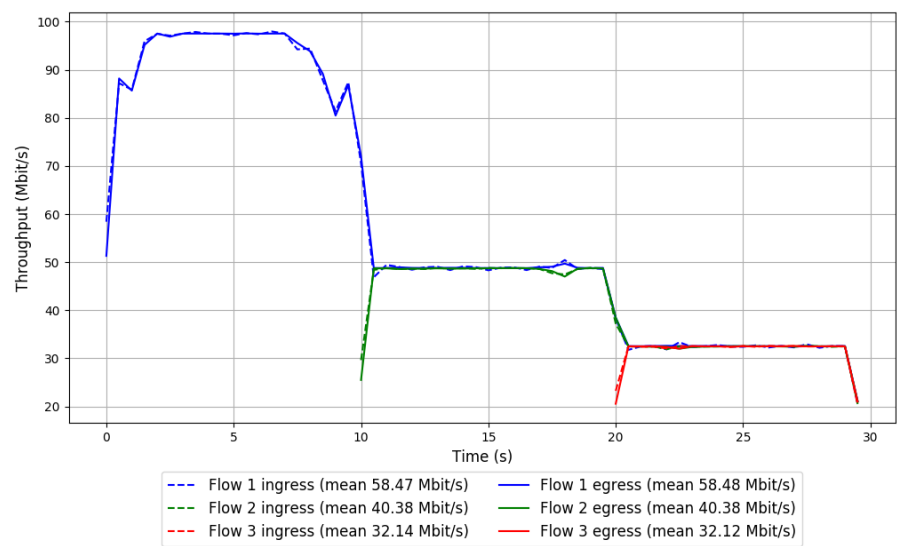


Run 2: Statistics of Indigo-2-256

Start at: 2018-01-26 10:59:51  
End at: 2018-01-26 11:00:21  
Local clock offset: 3.536 ms  
Remote clock offset: -19.008 ms

# Below is generated by plot.py at 2018-01-26 17:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.71 Mbit/s  
95th percentile per-packet one-way delay: 44.744 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 58.48 Mbit/s  
95th percentile per-packet one-way delay: 44.948 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.38 Mbit/s  
95th percentile per-packet one-way delay: 41.647 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.12 Mbit/s  
95th percentile per-packet one-way delay: 41.758 ms  
Loss rate: 0.33%

Run 2: Report of Indigo-2-256 — Data Link

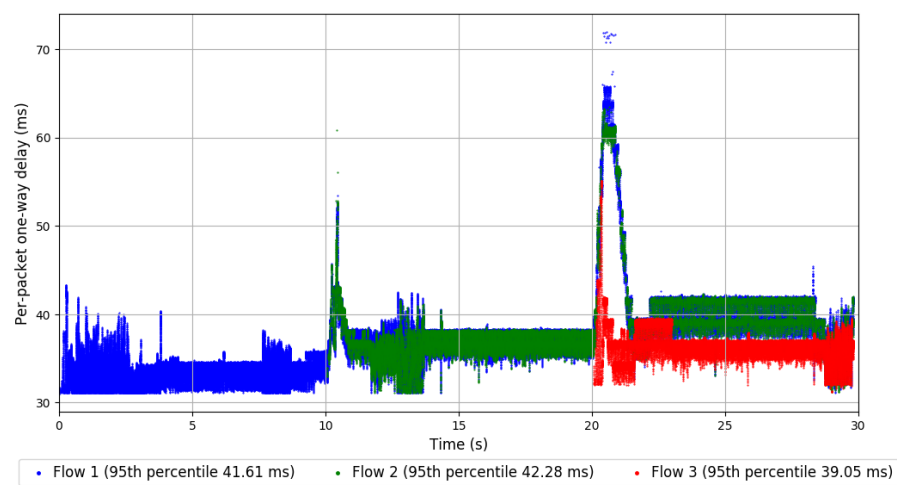
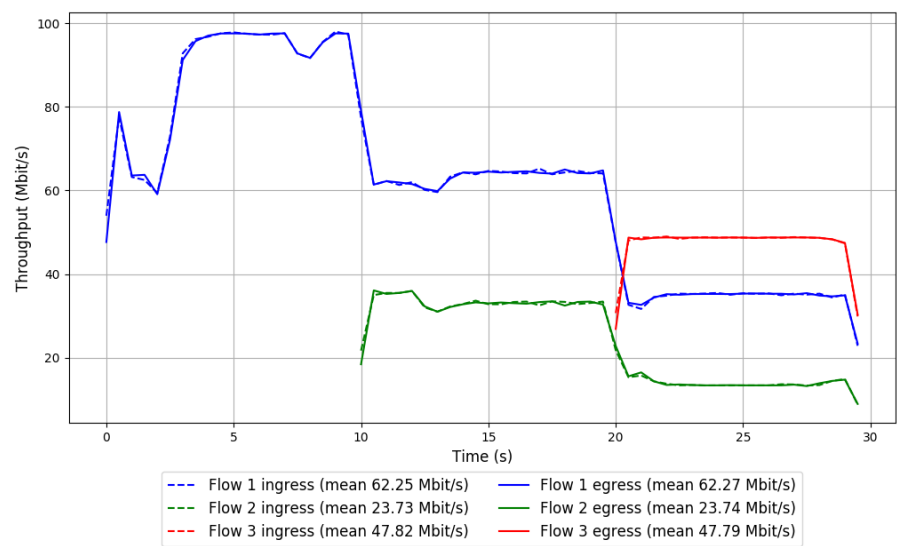


Run 3: Statistics of Indigo-2-256

Start at: 2018-01-26 11:18:44  
End at: 2018-01-26 11:19:14  
Local clock offset: 2.253 ms  
Remote clock offset: -15.761 ms

# Below is generated by plot.py at 2018-01-26 17:24:58  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.65 Mbit/s  
95th percentile per-packet one-way delay: 41.568 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 62.27 Mbit/s  
95th percentile per-packet one-way delay: 41.608 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 23.74 Mbit/s  
95th percentile per-packet one-way delay: 42.278 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 47.79 Mbit/s  
95th percentile per-packet one-way delay: 39.051 ms  
Loss rate: 0.33%

Run 3: Report of Indigo-2-256 — Data Link



Run 4: Statistics of Indigo-2-256

Start at: 2018-01-26 11:37:40

End at: 2018-01-26 11:38:10

Local clock offset: 4.921 ms

Remote clock offset: -15.2 ms

# Below is generated by plot.py at 2018-01-26 17:24:59

# Datalink statistics

-- Total of 3 flows:

Average throughput: 94.78 Mbit/s

95th percentile per-packet one-way delay: 61.349 ms

Loss rate: 0.17%

-- Flow 1:

Average throughput: 64.28 Mbit/s

95th percentile per-packet one-way delay: 60.470 ms

Loss rate: 0.08%

-- Flow 2:

Average throughput: 25.86 Mbit/s

95th percentile per-packet one-way delay: 62.407 ms

Loss rate: 0.16%

-- Flow 3:

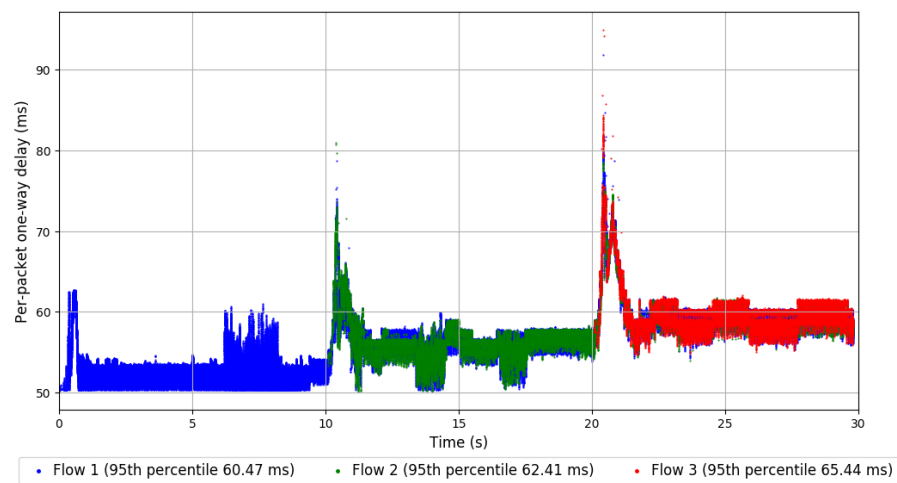
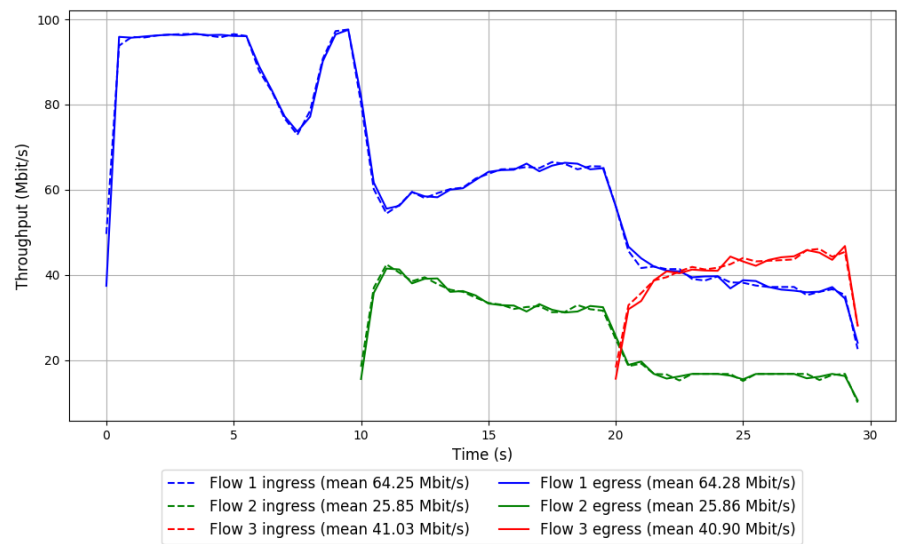
Average throughput: 40.90 Mbit/s

95th percentile per-packet one-way delay: 65.438 ms

Loss rate: 0.59%



Run 4: Report of Indigo-2-256 — Data Link

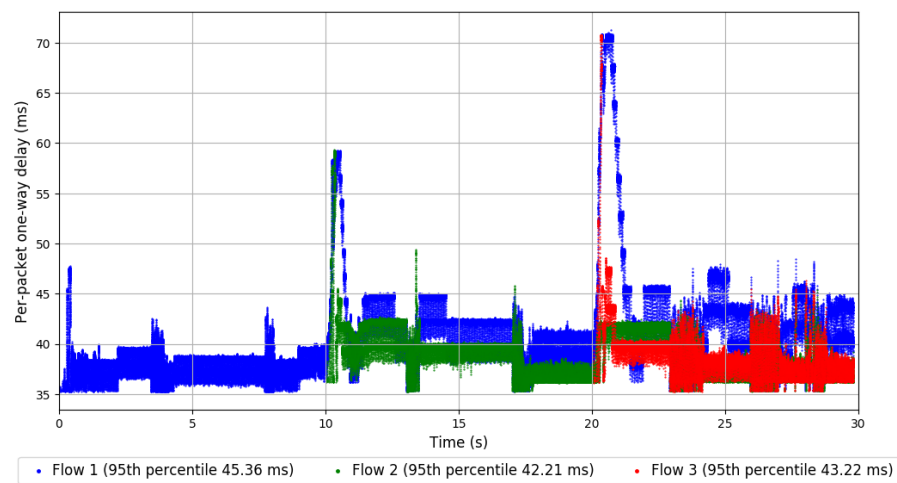
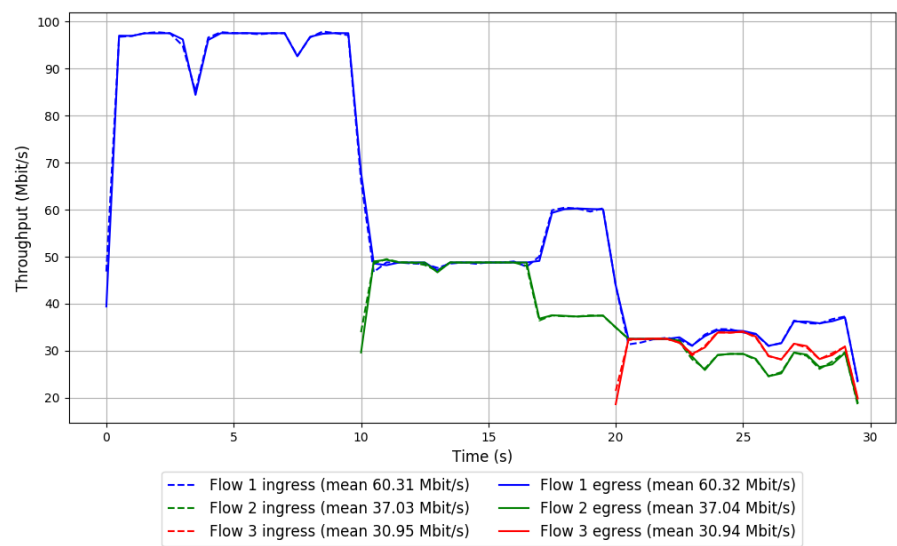


Run 5: Statistics of Indigo-2-256

Start at: 2018-01-26 11:56:51  
End at: 2018-01-26 11:57:21  
Local clock offset: 2.319 ms  
Remote clock offset: -12.893 ms

# Below is generated by plot.py at 2018-01-26 17:25:28  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.02 Mbit/s  
95th percentile per-packet one-way delay: 44.705 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 60.32 Mbit/s  
95th percentile per-packet one-way delay: 45.361 ms  
Loss rate: 0.08%  
-- Flow 2:  
Average throughput: 37.04 Mbit/s  
95th percentile per-packet one-way delay: 42.210 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 30.94 Mbit/s  
95th percentile per-packet one-way delay: 43.220 ms  
Loss rate: 0.33%

Run 5: Report of Indigo-2-256 — Data Link

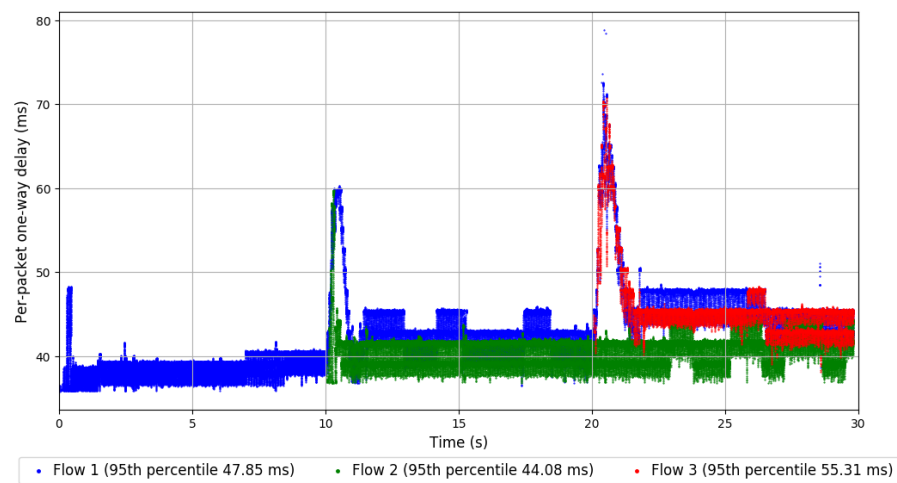
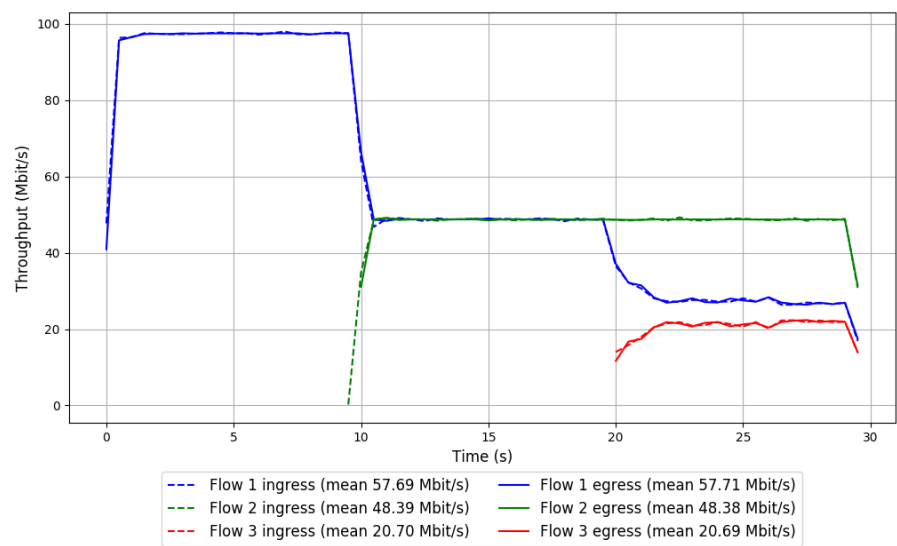


Run 6: Statistics of Indigo-2-256

Start at: 2018-01-26 12:16:02  
End at: 2018-01-26 12:16:32  
Local clock offset: 2.938 ms  
Remote clock offset: -12.143 ms

# Below is generated by plot.py at 2018-01-26 17:25:30  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.62 Mbit/s  
95th percentile per-packet one-way delay: 47.666 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 57.71 Mbit/s  
95th percentile per-packet one-way delay: 47.850 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 48.38 Mbit/s  
95th percentile per-packet one-way delay: 44.083 ms  
Loss rate: 0.18%  
-- Flow 3:  
Average throughput: 20.69 Mbit/s  
95th percentile per-packet one-way delay: 55.314 ms  
Loss rate: 0.41%

Run 6: Report of Indigo-2-256 — Data Link

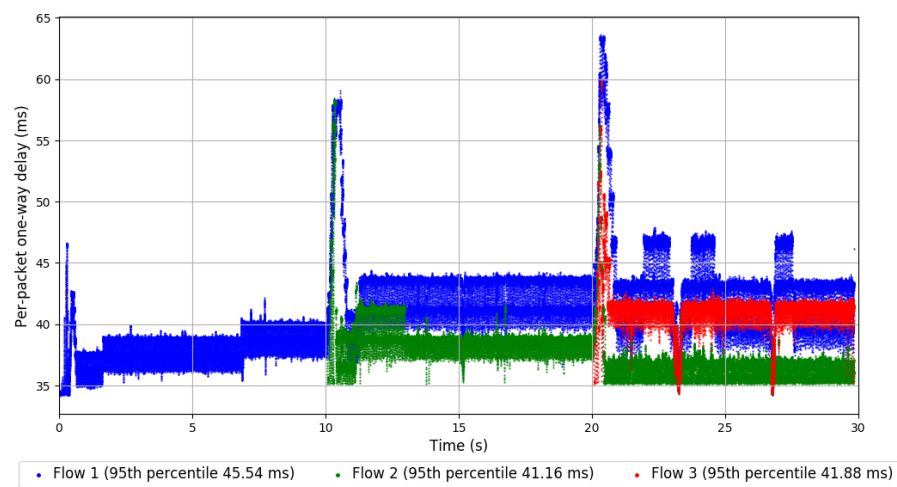
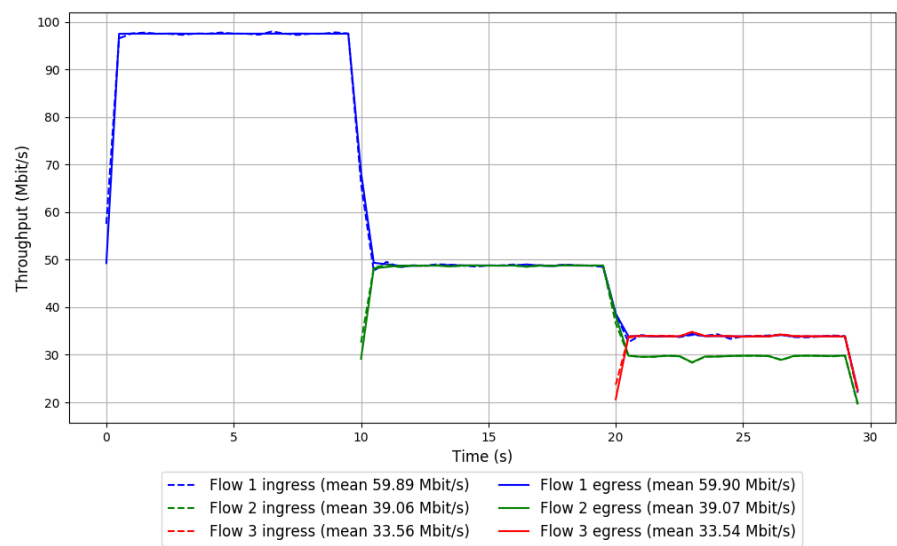


Run 7: Statistics of Indigo-2-256

Start at: 2018-01-26 12:35:27  
End at: 2018-01-26 12:35:57  
Local clock offset: 0.676 ms  
Remote clock offset: -11.25 ms

# Below is generated by plot.py at 2018-01-26 17:25:35  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.81 Mbit/s  
95th percentile per-packet one-way delay: 43.797 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 59.90 Mbit/s  
95th percentile per-packet one-way delay: 45.536 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 39.07 Mbit/s  
95th percentile per-packet one-way delay: 41.163 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 33.54 Mbit/s  
95th percentile per-packet one-way delay: 41.879 ms  
Loss rate: 0.36%

Run 7: Report of Indigo-2-256 — Data Link



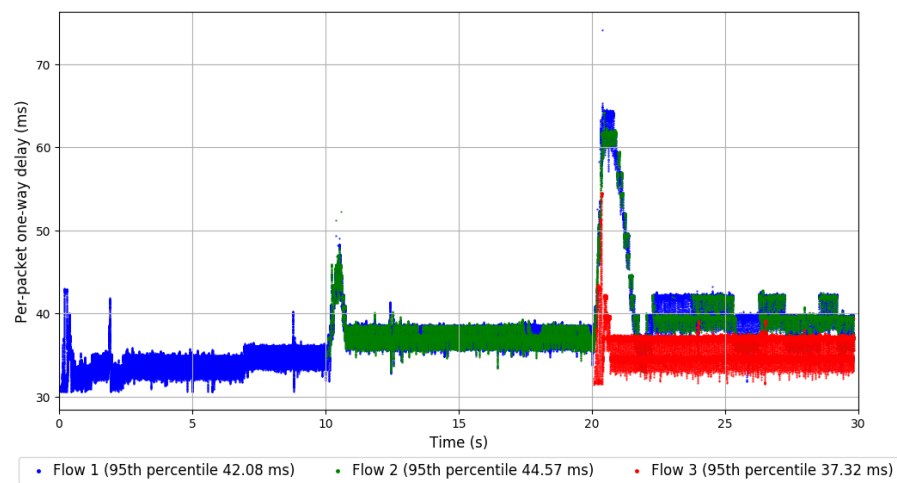
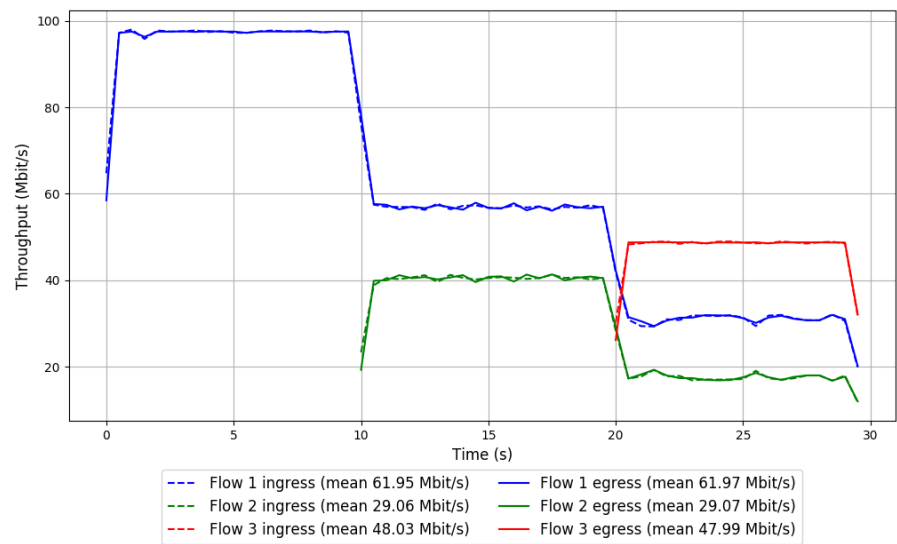
Run 8: Statistics of Indigo-2-256

Start at: 2018-01-26 12:55:05  
End at: 2018-01-26 12:55:35  
Local clock offset: 1.083 ms  
Remote clock offset: -10.853 ms

# Below is generated by plot.py at 2018-01-26 17:25:39  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.93 Mbit/s  
95th percentile per-packet one-way delay: 42.058 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 61.97 Mbit/s  
95th percentile per-packet one-way delay: 42.077 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 29.07 Mbit/s  
95th percentile per-packet one-way delay: 44.567 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 47.99 Mbit/s  
95th percentile per-packet one-way delay: 37.320 ms  
Loss rate: 0.33%



Run 8: Report of Indigo-2-256 — Data Link

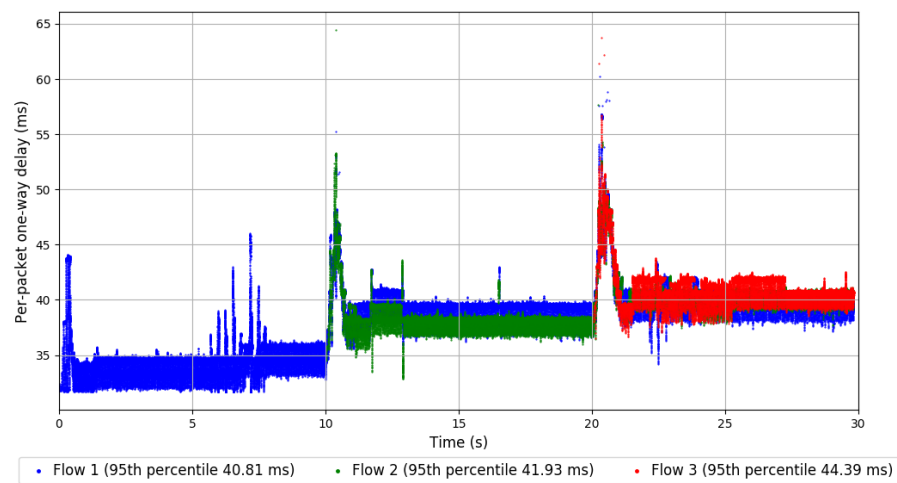
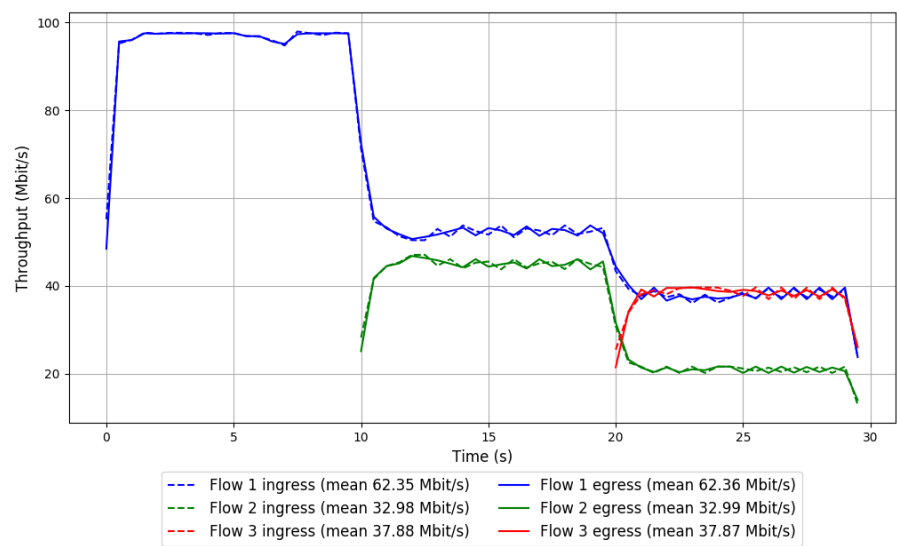


Run 9: Statistics of Indigo-2-256

Start at: 2018-01-26 13:14:42  
End at: 2018-01-26 13:15:12  
Local clock offset: 4.014 ms  
Remote clock offset: -9.586 ms

# Below is generated by plot.py at 2018-01-26 17:26:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.63 Mbit/s  
95th percentile per-packet one-way delay: 41.945 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 62.36 Mbit/s  
95th percentile per-packet one-way delay: 40.810 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 32.99 Mbit/s  
95th percentile per-packet one-way delay: 41.930 ms  
Loss rate: 0.11%  
-- Flow 3:  
Average throughput: 37.87 Mbit/s  
95th percentile per-packet one-way delay: 44.394 ms  
Loss rate: 0.35%

Run 9: Report of Indigo-2-256 — Data Link

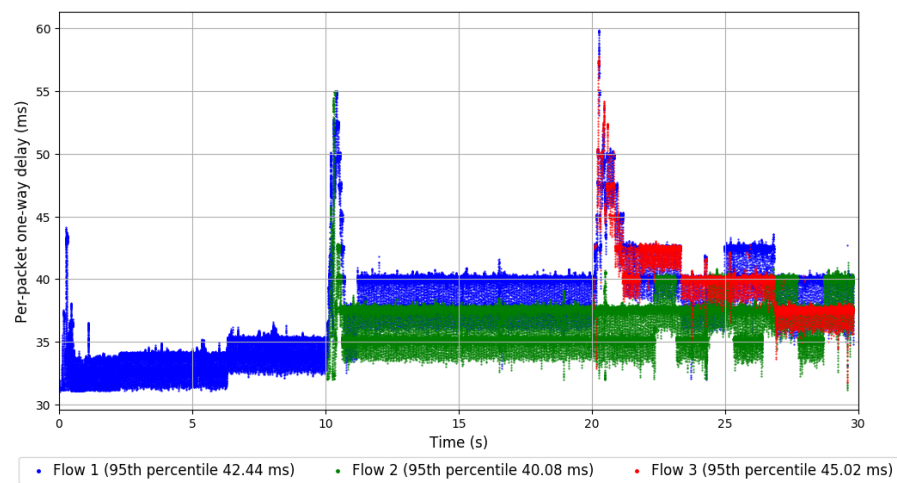
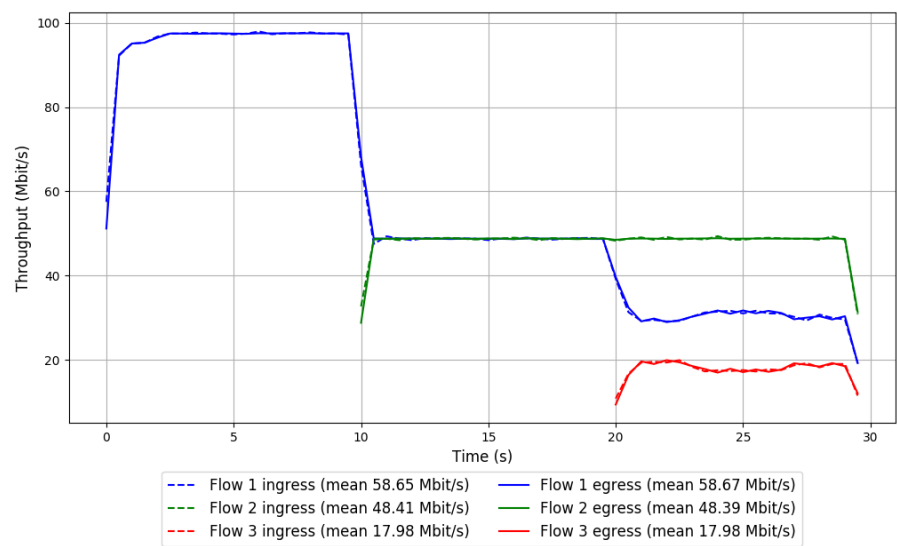


Run 10: Statistics of Indigo-2-256

Start at: 2018-01-26 13:34:35  
End at: 2018-01-26 13:35:05  
Local clock offset: 0.995 ms  
Remote clock offset: -12.754 ms

# Below is generated by plot.py at 2018-01-26 17:26:05  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.65 Mbit/s  
95th percentile per-packet one-way delay: 42.237 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 58.67 Mbit/s  
95th percentile per-packet one-way delay: 42.441 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 48.39 Mbit/s  
95th percentile per-packet one-way delay: 40.082 ms  
Loss rate: 0.16%  
-- Flow 3:  
Average throughput: 17.98 Mbit/s  
95th percentile per-packet one-way delay: 45.025 ms  
Loss rate: 0.33%

Run 10: Report of Indigo-2-256 — Data Link

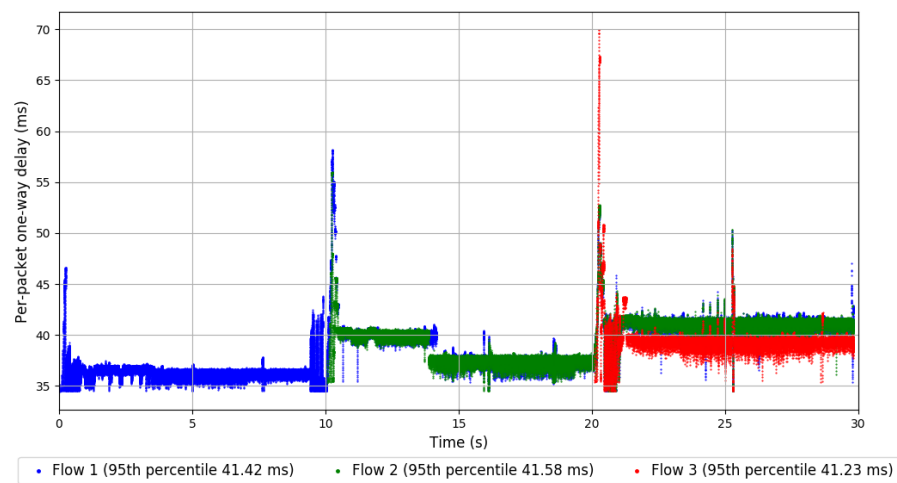
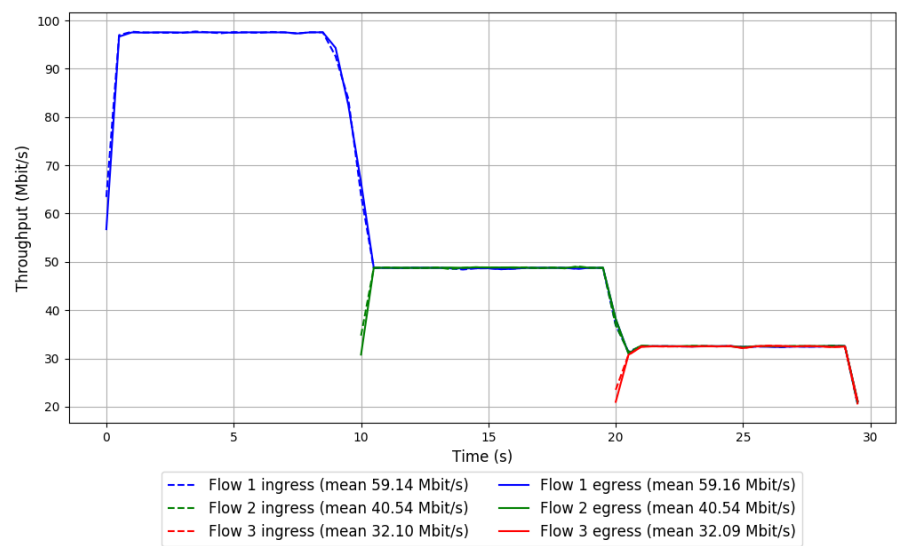


```
Run 1: Statistics of Indigo-1-32

Start at: 2018-01-26 10:38:39
End at: 2018-01-26 10:39:09
Local clock offset: 3.798 ms
Remote clock offset: -19.473 ms

# Below is generated by plot.py at 2018-01-26 17:26:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 96.52 Mbit/s
95th percentile per-packet one-way delay: 41.486 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 59.16 Mbit/s
95th percentile per-packet one-way delay: 41.418 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 40.54 Mbit/s
95th percentile per-packet one-way delay: 41.584 ms
Loss rate: 0.13%
-- Flow 3:
Average throughput: 32.09 Mbit/s
95th percentile per-packet one-way delay: 41.231 ms
Loss rate: 0.31%
```

Run 1: Report of Indigo-1-32 — Data Link



Run 2: Statistics of Indigo-1-32

Start at: 2018-01-26 10:57:29

End at: 2018-01-26 10:57:59

Local clock offset: 4.56 ms

Remote clock offset: -18.203 ms

# Below is generated by plot.py at 2018-01-26 17:26:25

# Datalink statistics

-- Total of 3 flows:

Average throughput: 91.23 Mbit/s

95th percentile per-packet one-way delay: 40.737 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 57.59 Mbit/s

95th percentile per-packet one-way delay: 38.850 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 37.96 Mbit/s

95th percentile per-packet one-way delay: 42.391 ms

Loss rate: 0.11%

-- Flow 3:

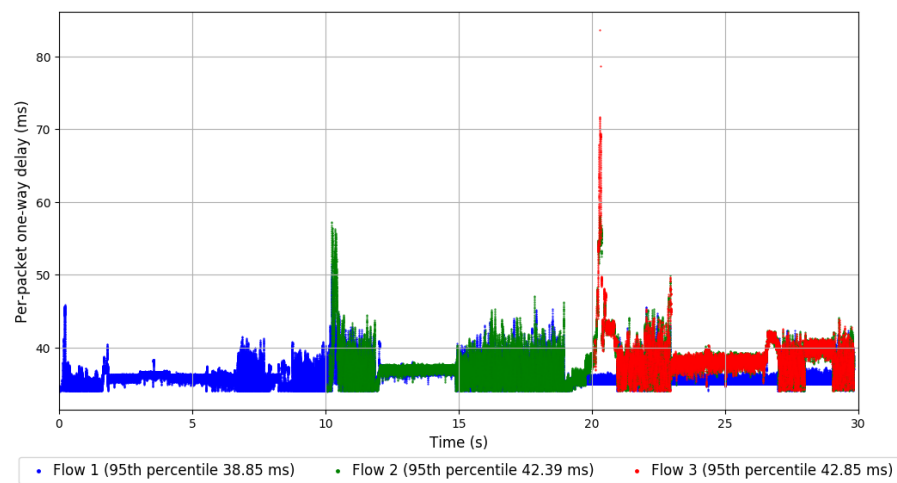
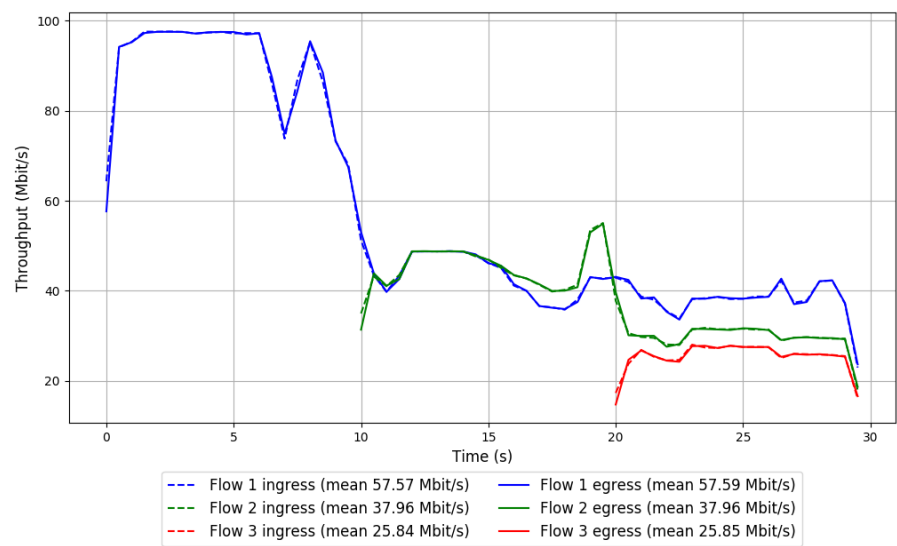
Average throughput: 25.85 Mbit/s

95th percentile per-packet one-way delay: 42.847 ms

Loss rate: 0.31%



Run 2: Report of Indigo-1-32 — Data Link

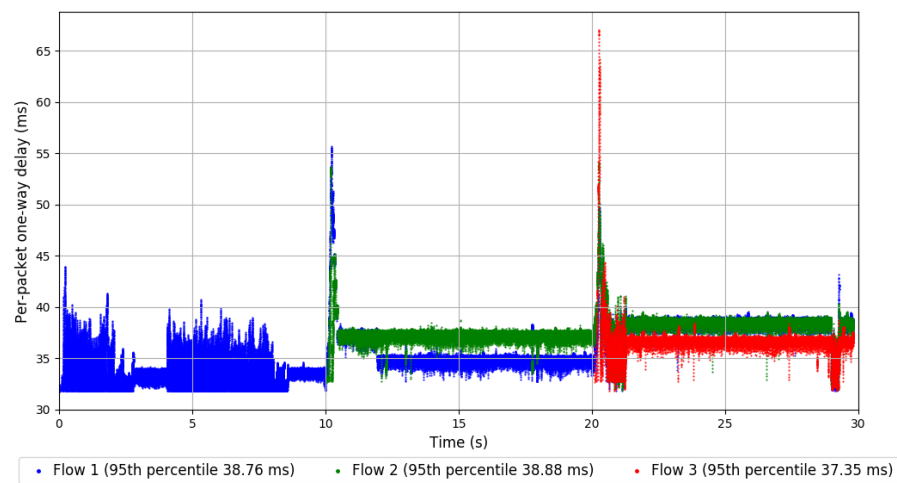
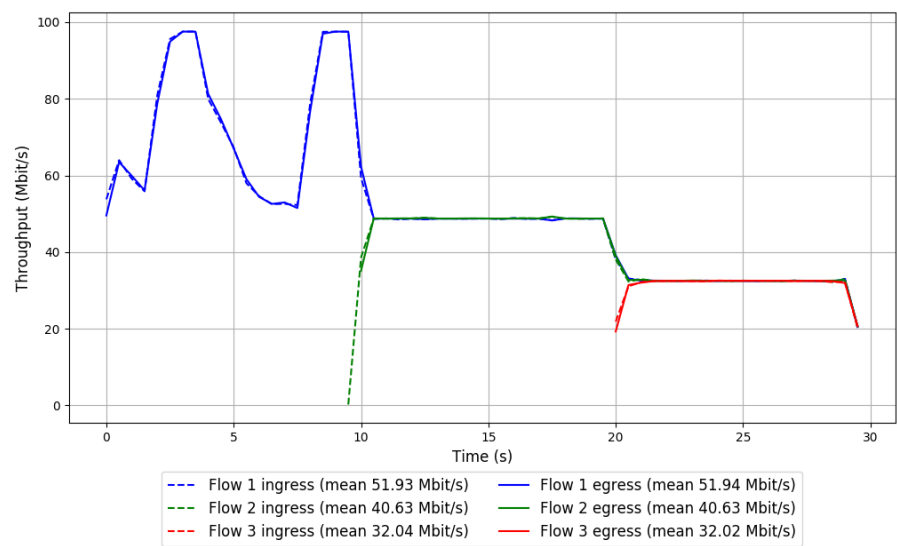


Run 3: Statistics of Indigo-1-32

Start at: 2018-01-26 11:16:24  
End at: 2018-01-26 11:16:54  
Local clock offset: 3.437 ms  
Remote clock offset: -15.414 ms

# Below is generated by plot.py at 2018-01-26 17:26:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 89.38 Mbit/s  
95th percentile per-packet one-way delay: 38.794 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 51.94 Mbit/s  
95th percentile per-packet one-way delay: 38.762 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 40.63 Mbit/s  
95th percentile per-packet one-way delay: 38.875 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.02 Mbit/s  
95th percentile per-packet one-way delay: 37.351 ms  
Loss rate: 0.32%

Run 3: Report of Indigo-1-32 — Data Link

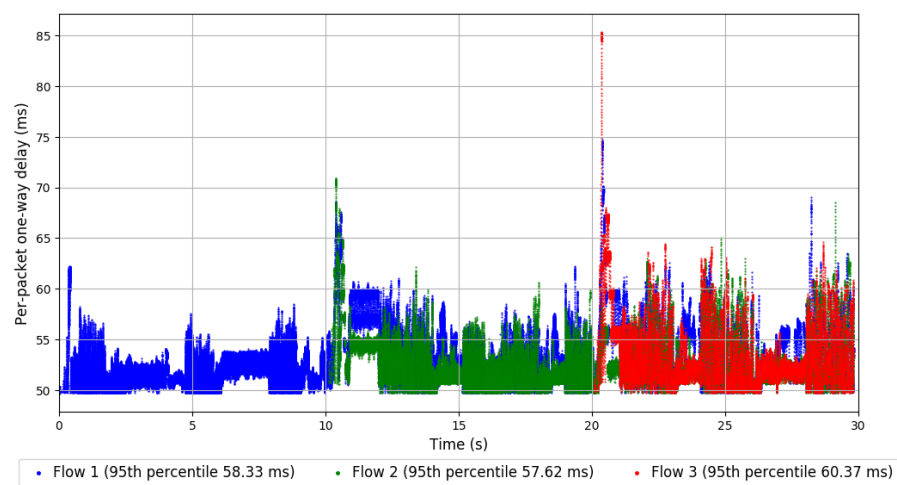
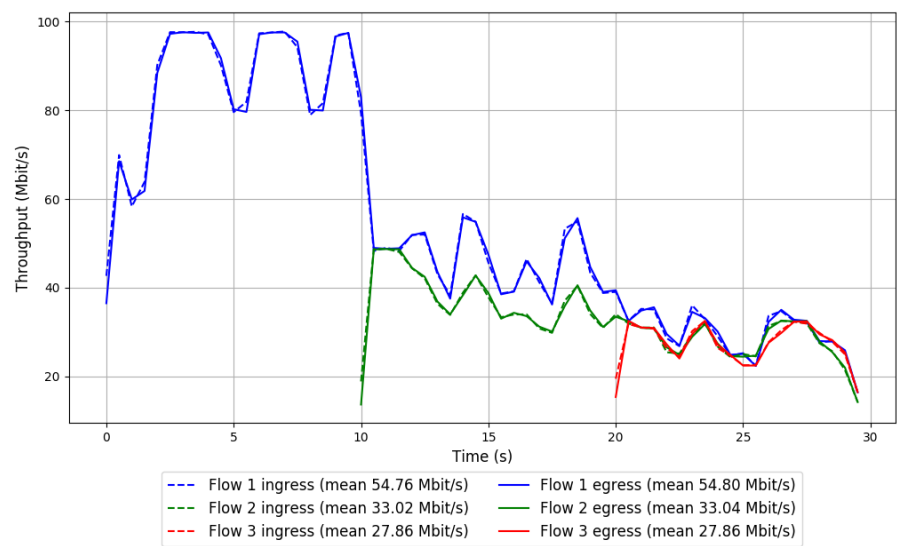


Run 4: Statistics of Indigo-1-32

Start at: 2018-01-26 11:35:18  
End at: 2018-01-26 11:35:48  
Local clock offset: 5.021 ms  
Remote clock offset: -14.795 ms

# Below is generated by plot.py at 2018-01-26 17:26:50  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 85.74 Mbit/s  
95th percentile per-packet one-way delay: 58.523 ms  
Loss rate: 0.13%  
-- Flow 1:  
Average throughput: 54.80 Mbit/s  
95th percentile per-packet one-way delay: 58.327 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 33.04 Mbit/s  
95th percentile per-packet one-way delay: 57.621 ms  
Loss rate: 0.17%  
-- Flow 3:  
Average throughput: 27.86 Mbit/s  
95th percentile per-packet one-way delay: 60.369 ms  
Loss rate: 0.44%

Run 4: Report of Indigo-1-32 — Data Link

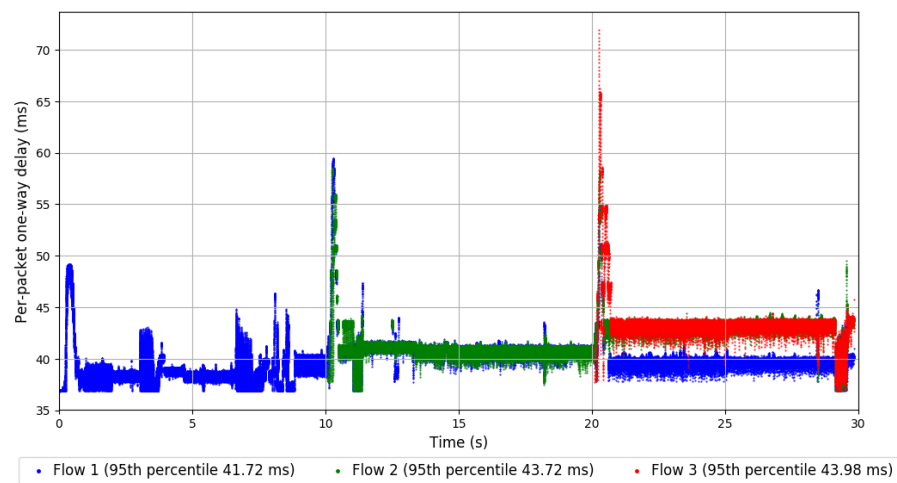
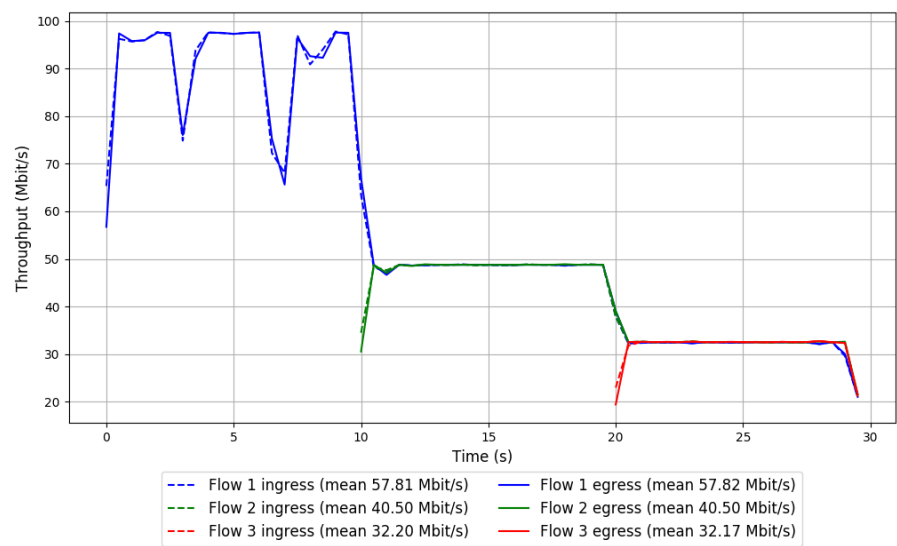


Run 5: Statistics of Indigo-1-32

Start at: 2018-01-26 11:54:25  
End at: 2018-01-26 11:54:55  
Local clock offset: 4.356 ms  
Remote clock offset: -12.648 ms

# Below is generated by plot.py at 2018-01-26 17:27:01  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.22 Mbit/s  
95th percentile per-packet one-way delay: 43.676 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 57.82 Mbit/s  
95th percentile per-packet one-way delay: 41.724 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.50 Mbit/s  
95th percentile per-packet one-way delay: 43.723 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.17 Mbit/s  
95th percentile per-packet one-way delay: 43.979 ms  
Loss rate: 0.36%

Run 5: Report of Indigo-1-32 — Data Link



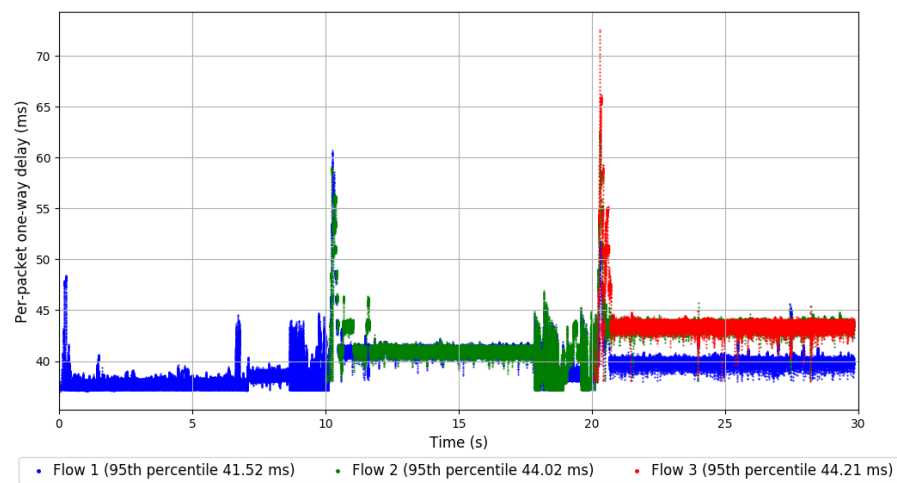
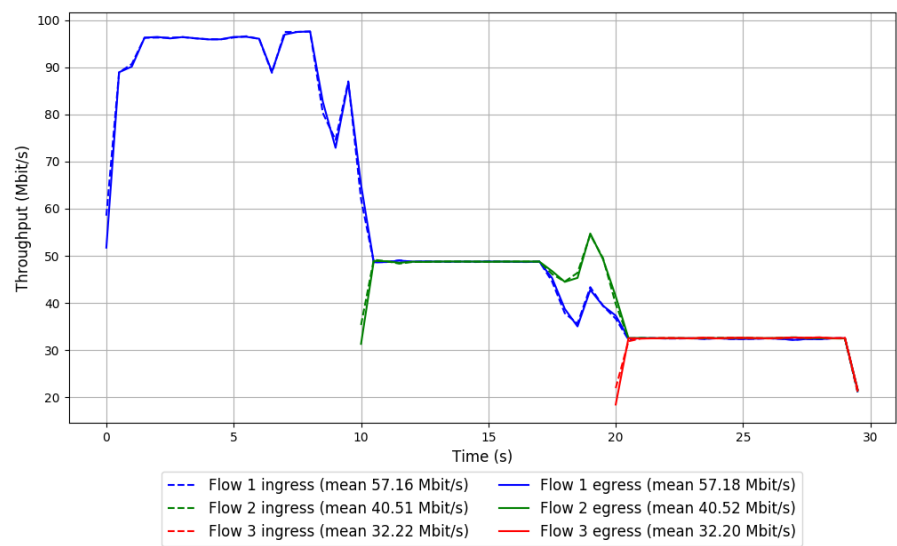
Run 6: Statistics of Indigo-1-32

Start at: 2018-01-26 12:13:35  
End at: 2018-01-26 12:14:05  
Local clock offset: 4.43 ms  
Remote clock offset: -12.05 ms

# Below is generated by plot.py at 2018-01-26 17:27:04  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.58 Mbit/s  
95th percentile per-packet one-way delay: 43.890 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 57.18 Mbit/s  
95th percentile per-packet one-way delay: 41.520 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.52 Mbit/s  
95th percentile per-packet one-way delay: 44.018 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.20 Mbit/s  
95th percentile per-packet one-way delay: 44.207 ms  
Loss rate: 0.37%



Run 6: Report of Indigo-1-32 — Data Link

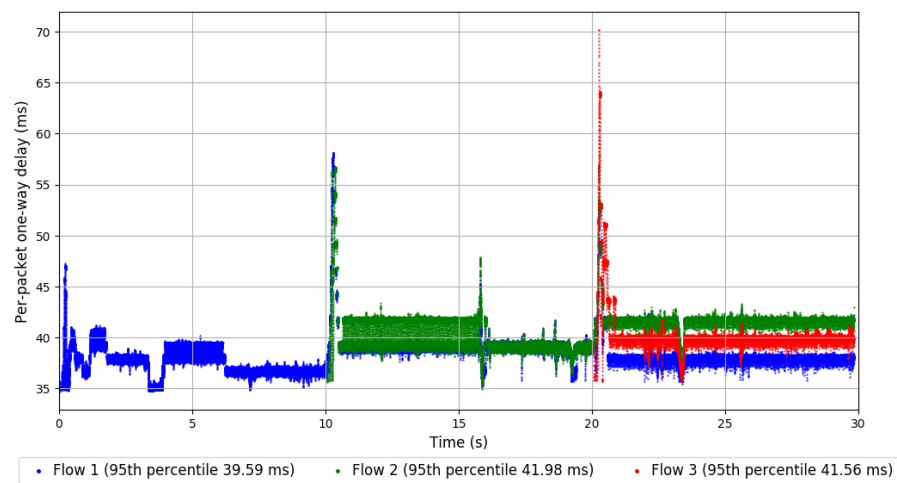
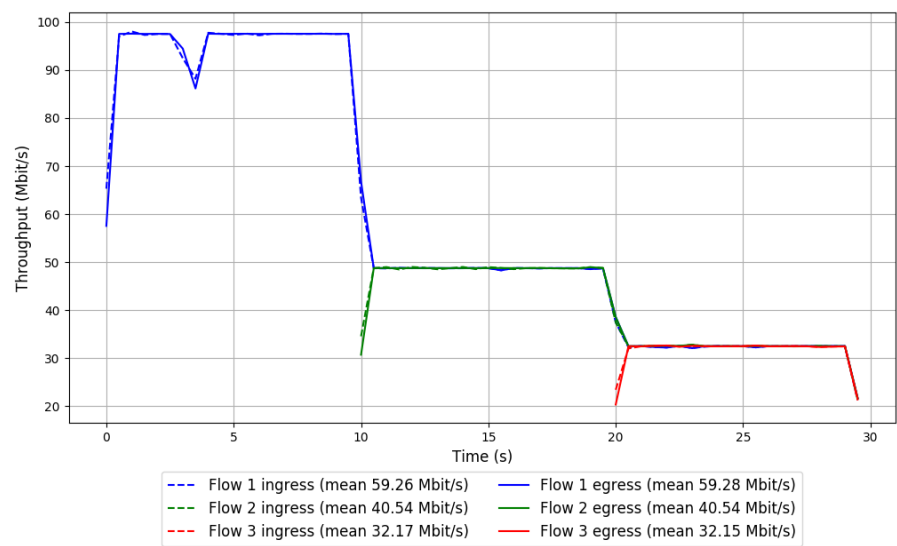


Run 7: Statistics of Indigo-1-32

Start at: 2018-01-26 12:32:58  
End at: 2018-01-26 12:33:28  
Local clock offset: 1.935 ms  
Remote clock offset: -10.646 ms

# Below is generated by plot.py at 2018-01-26 17:27:27  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.70 Mbit/s  
95th percentile per-packet one-way delay: 41.875 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 59.28 Mbit/s  
95th percentile per-packet one-way delay: 39.593 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.54 Mbit/s  
95th percentile per-packet one-way delay: 41.978 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 32.15 Mbit/s  
95th percentile per-packet one-way delay: 41.561 ms  
Loss rate: 0.35%

Run 7: Report of Indigo-1-32 — Data Link

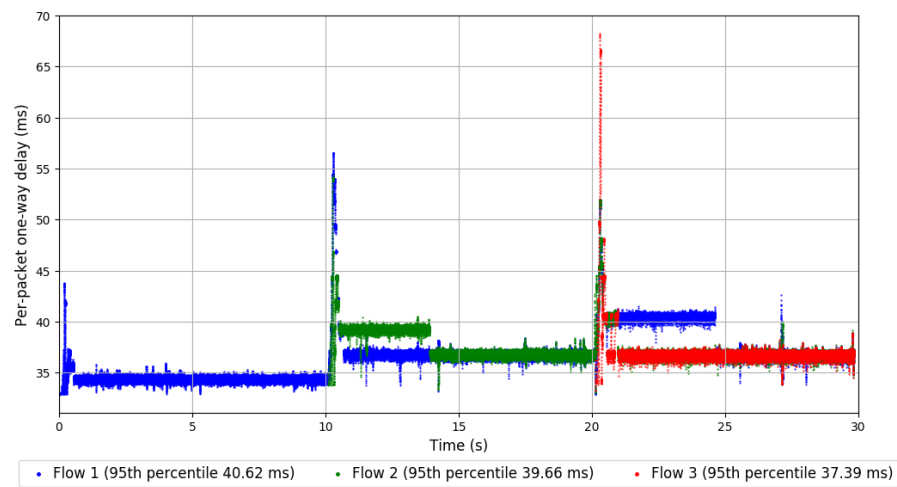
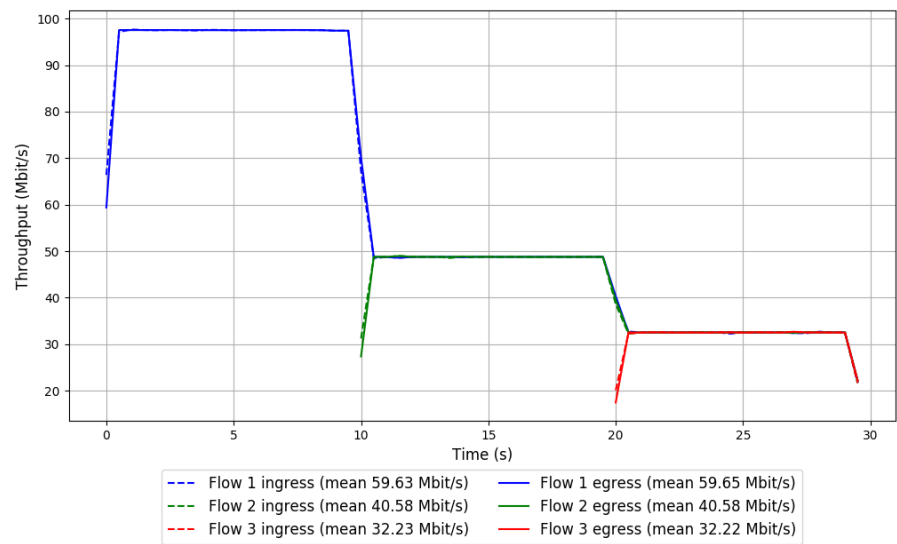


Run 8: Statistics of Indigo-1-32

Start at: 2018-01-26 12:52:40  
End at: 2018-01-26 12:53:10  
Local clock offset: 1.747 ms  
Remote clock offset: -12.559 ms

# Below is generated by plot.py at 2018-01-26 17:27:34  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.99 Mbit/s  
95th percentile per-packet one-way delay: 40.564 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 59.65 Mbit/s  
95th percentile per-packet one-way delay: 40.617 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.58 Mbit/s  
95th percentile per-packet one-way delay: 39.657 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 32.22 Mbit/s  
95th percentile per-packet one-way delay: 37.393 ms  
Loss rate: 0.30%

Run 8: Report of Indigo-1-32 — Data Link

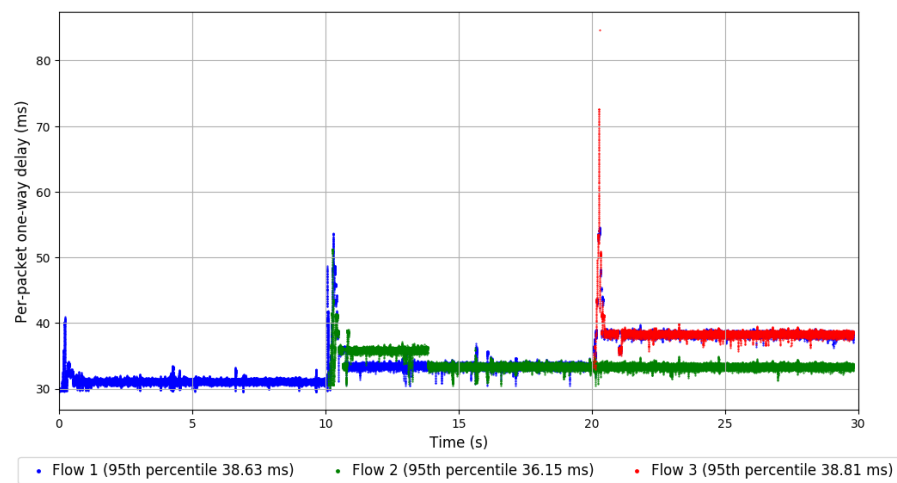
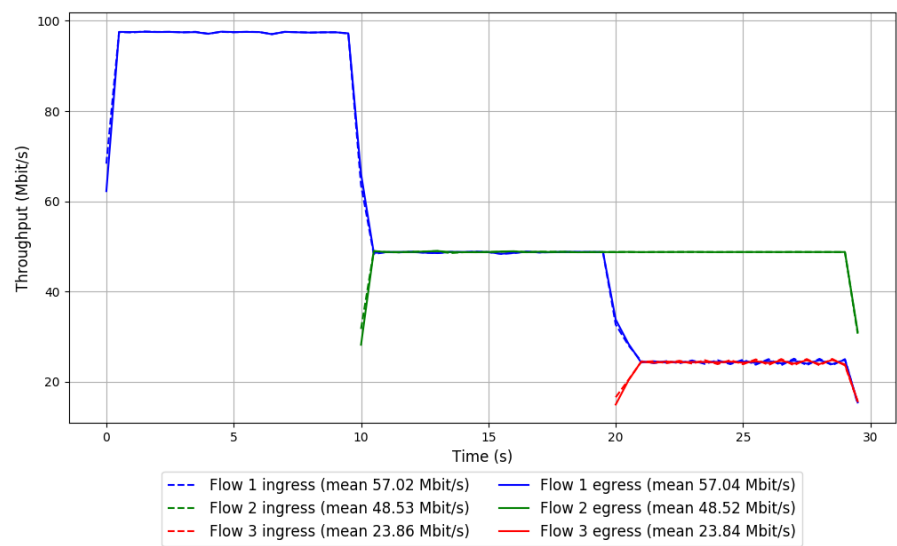


Run 9: Statistics of Indigo-1-32

Start at: 2018-01-26 13:12:20  
End at: 2018-01-26 13:12:50  
Local clock offset: 0.586 ms  
Remote clock offset: -10.661 ms

# Below is generated by plot.py at 2018-01-26 17:27:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.95 Mbit/s  
95th percentile per-packet one-way delay: 38.645 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 57.04 Mbit/s  
95th percentile per-packet one-way delay: 38.626 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 48.52 Mbit/s  
95th percentile per-packet one-way delay: 36.152 ms  
Loss rate: 0.15%  
-- Flow 3:  
Average throughput: 23.84 Mbit/s  
95th percentile per-packet one-way delay: 38.813 ms  
Loss rate: 0.35%

Run 9: Report of Indigo-1-32 — Data Link



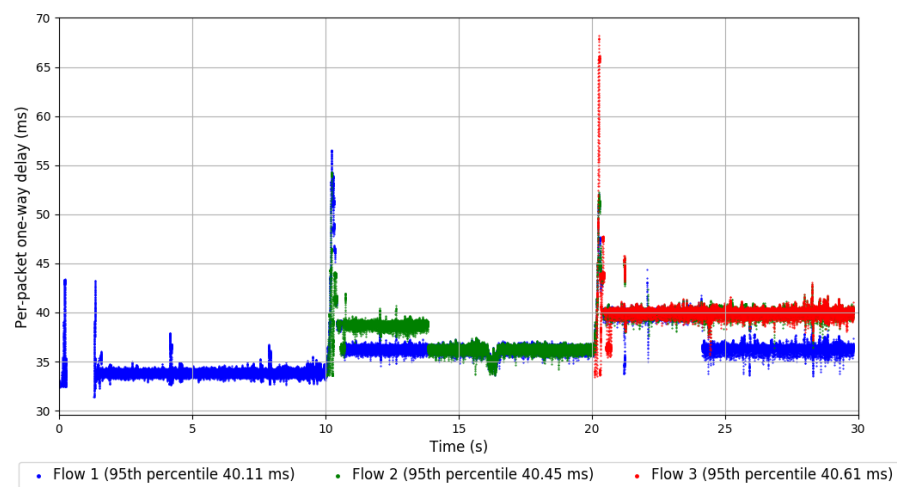
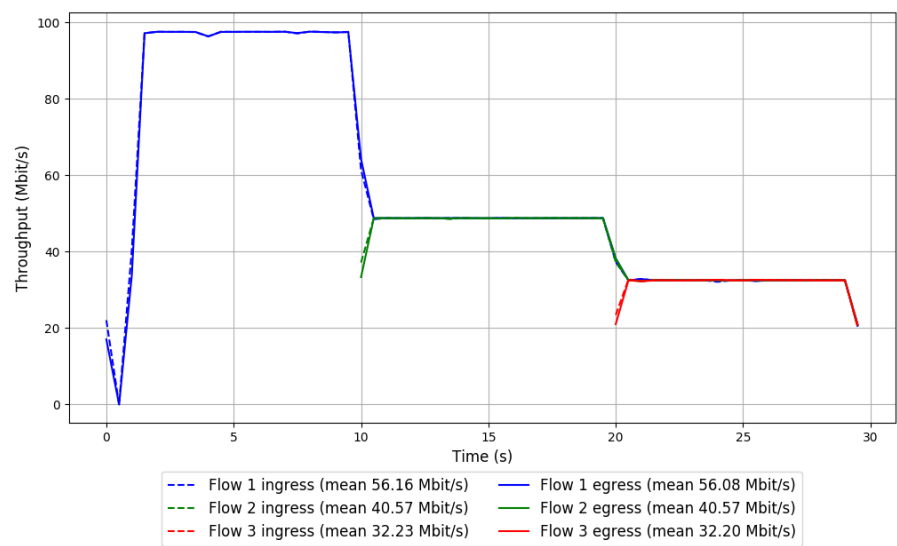
Run 10: Statistics of Indigo-1-32

Start at: 2018-01-26 13:32:06  
End at: 2018-01-26 13:32:36  
Local clock offset: 3.13 ms  
Remote clock offset: -11.971 ms

# Below is generated by plot.py at 2018-01-26 17:27:49  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 93.53 Mbit/s  
95th percentile per-packet one-way delay: 40.331 ms  
Loss rate: 0.20%  
-- Flow 1:  
Average throughput: 56.08 Mbit/s  
95th percentile per-packet one-way delay: 40.114 ms  
Loss rate: 0.21%  
-- Flow 2:  
Average throughput: 40.57 Mbit/s  
95th percentile per-packet one-way delay: 40.445 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 32.20 Mbit/s  
95th percentile per-packet one-way delay: 40.610 ms  
Loss rate: 0.33%



Run 10: Report of Indigo-1-32 — Data Link

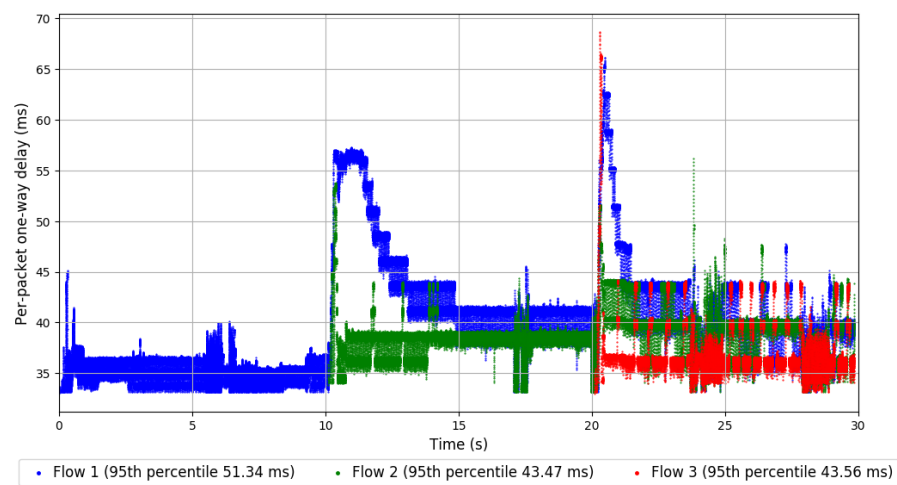
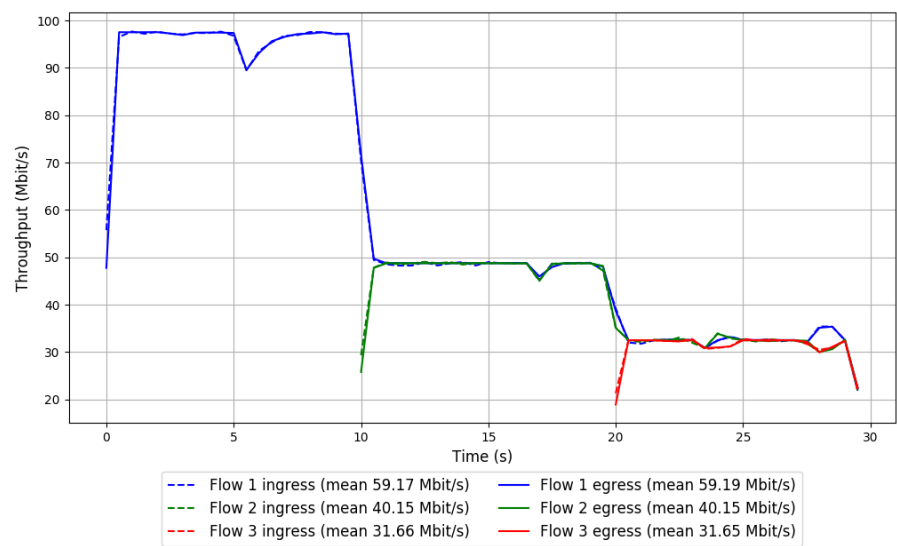


Run 1: Statistics of Indigo-1-128

Start at: 2018-01-26 10:48:01  
End at: 2018-01-26 10:48:31  
Local clock offset: 3.09 ms  
Remote clock offset: -19.027 ms

# Below is generated by plot.py at 2018-01-26 17:28:16  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.13 Mbit/s  
95th percentile per-packet one-way delay: 46.336 ms  
Loss rate: 0.09%  
-- Flow 1:  
Average throughput: 59.19 Mbit/s  
95th percentile per-packet one-way delay: 51.344 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 40.15 Mbit/s  
95th percentile per-packet one-way delay: 43.466 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 31.65 Mbit/s  
95th percentile per-packet one-way delay: 43.562 ms  
Loss rate: 0.26%

Run 1: Report of Indigo-1-128 — Data Link

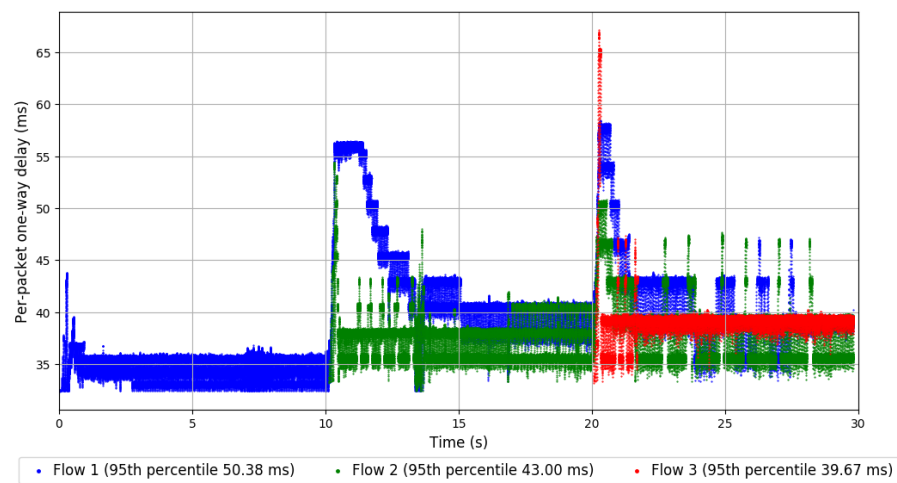
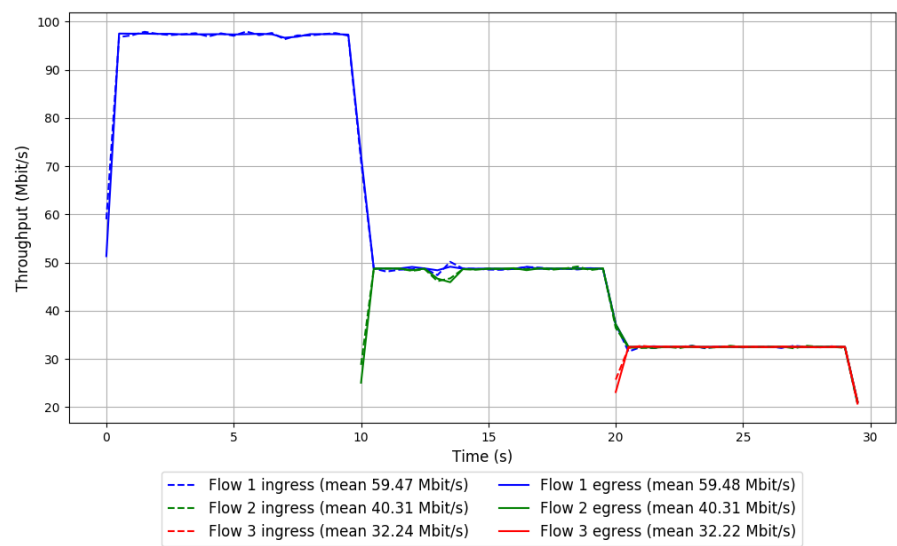


Run 2: Statistics of Indigo-1-128

Start at: 2018-01-26 11:06:47  
End at: 2018-01-26 11:07:17  
Local clock offset: 1.835 ms  
Remote clock offset: -18.153 ms

# Below is generated by plot.py at 2018-01-26 17:28:17  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.71 Mbit/s  
95th percentile per-packet one-way delay: 46.459 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 59.48 Mbit/s  
95th percentile per-packet one-way delay: 50.381 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 40.31 Mbit/s  
95th percentile per-packet one-way delay: 42.996 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 32.22 Mbit/s  
95th percentile per-packet one-way delay: 39.668 ms  
Loss rate: 0.32%

Run 2: Report of Indigo-1-128 — Data Link

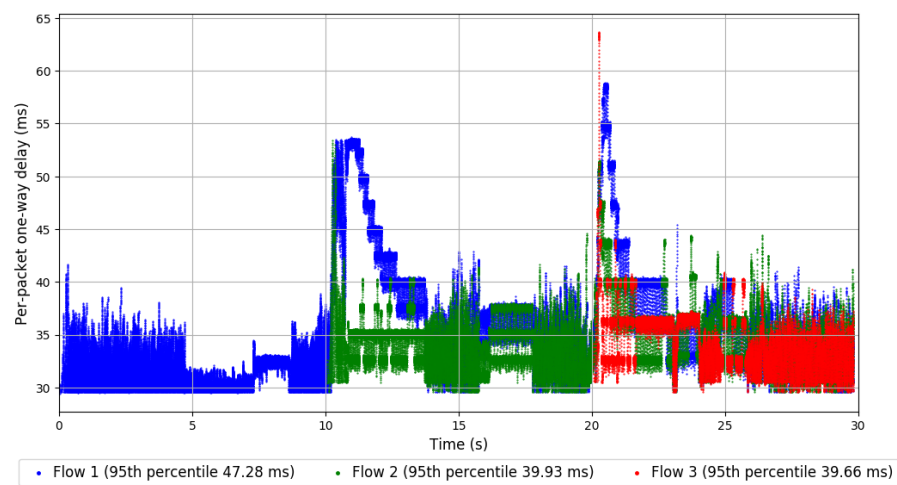
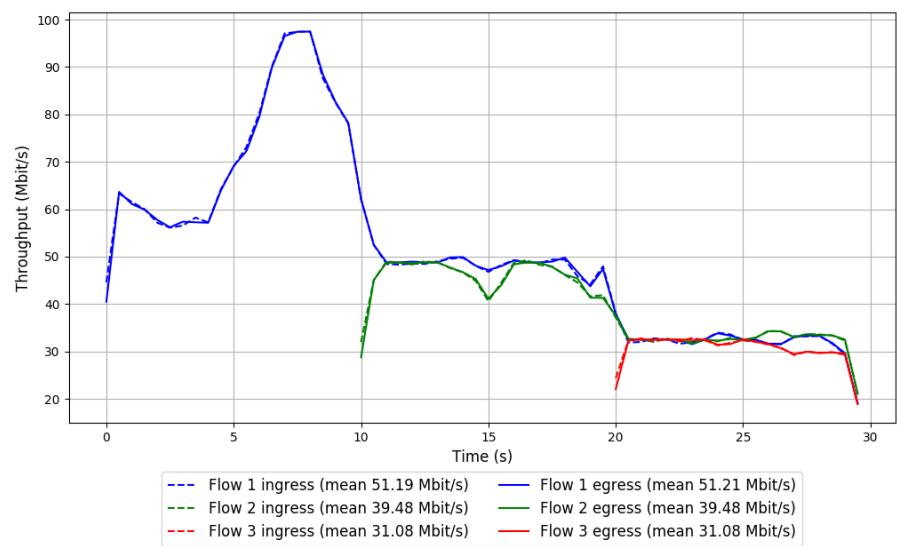


Run 3: Statistics of Indigo-1-128

Start at: 2018-01-26 11:25:42  
End at: 2018-01-26 11:26:12  
Local clock offset: 1.371 ms  
Remote clock offset: -14.663 ms

# Below is generated by plot.py at 2018-01-26 17:28:21  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 87.56 Mbit/s  
95th percentile per-packet one-way delay: 43.065 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 51.21 Mbit/s  
95th percentile per-packet one-way delay: 47.284 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 39.48 Mbit/s  
95th percentile per-packet one-way delay: 39.932 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 31.08 Mbit/s  
95th percentile per-packet one-way delay: 39.657 ms  
Loss rate: 0.28%

Run 3: Report of Indigo-1-128 — Data Link



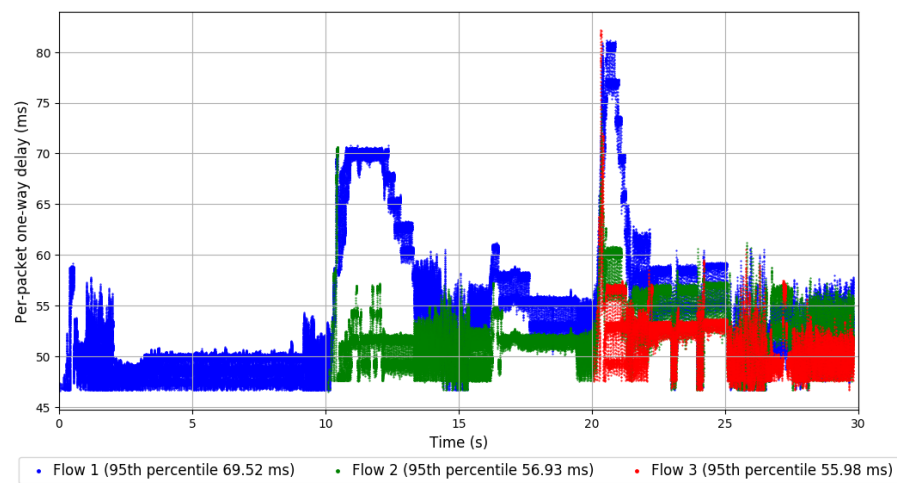
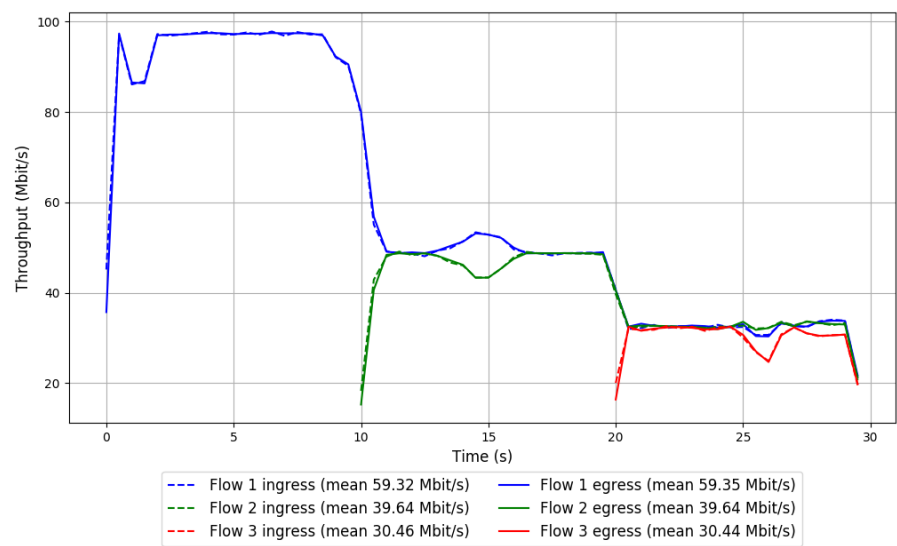
Run 4: Statistics of Indigo-1-128

Start at: 2018-01-26 11:44:45  
End at: 2018-01-26 11:45:15  
Local clock offset: 2.168 ms  
Remote clock offset: -14.252 ms

# Below is generated by plot.py at 2018-01-26 17:28:29  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 95.58 Mbit/s  
95th percentile per-packet one-way delay: 64.873 ms  
Loss rate: 0.16%  
-- Flow 1:  
Average throughput: 59.35 Mbit/s  
95th percentile per-packet one-way delay: 69.521 ms  
Loss rate: 0.09%  
-- Flow 2:  
Average throughput: 39.64 Mbit/s  
95th percentile per-packet one-way delay: 56.931 ms  
Loss rate: 0.19%  
-- Flow 3:  
Average throughput: 30.44 Mbit/s  
95th percentile per-packet one-way delay: 55.977 ms  
Loss rate: 0.47%



Run 4: Report of Indigo-1-128 — Data Link



Run 5: Statistics of Indigo-1-128

Start at: 2018-01-26 12:03:48

End at: 2018-01-26 12:04:18

Local clock offset: 4.117 ms

Remote clock offset: -12.3 ms

# Below is generated by plot.py at 2018-01-26 17:28:47

# Datalink statistics

-- Total of 3 flows:

Average throughput: 95.36 Mbit/s

95th percentile per-packet one-way delay: 47.928 ms

Loss rate: 0.10%

-- Flow 1:

Average throughput: 68.32 Mbit/s

95th percentile per-packet one-way delay: 47.999 ms

Loss rate: 0.06%

-- Flow 2:

Average throughput: 17.42 Mbit/s

95th percentile per-packet one-way delay: 53.528 ms

Loss rate: 0.09%

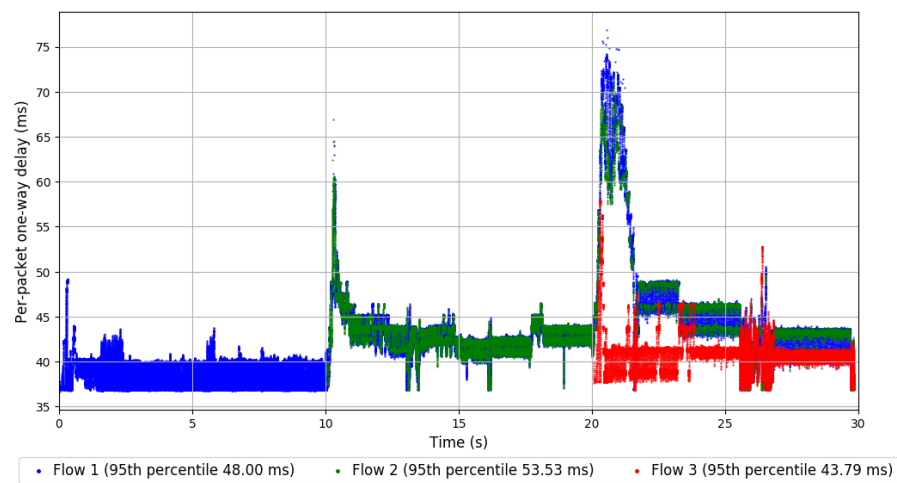
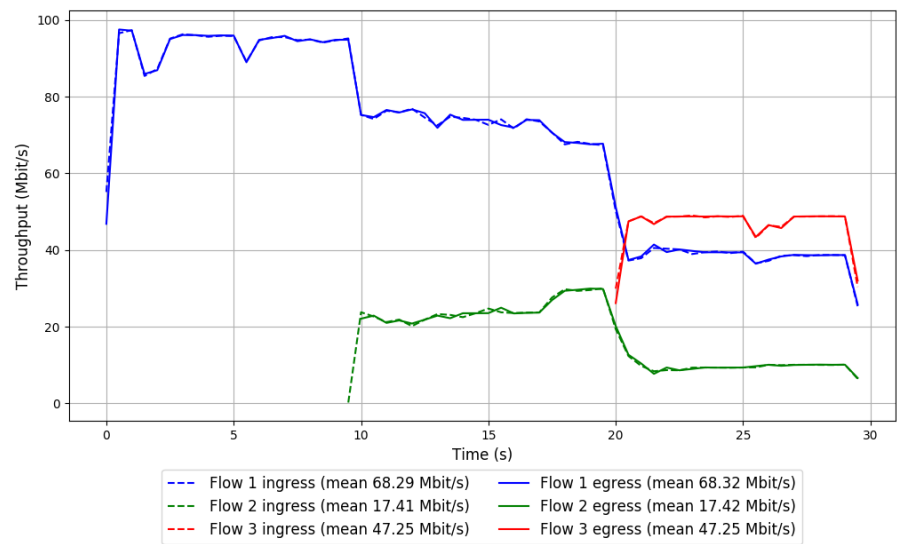
-- Flow 3:

Average throughput: 47.25 Mbit/s

95th percentile per-packet one-way delay: 43.786 ms

Loss rate: 0.26%

Run 5: Report of Indigo-1-128 — Data Link

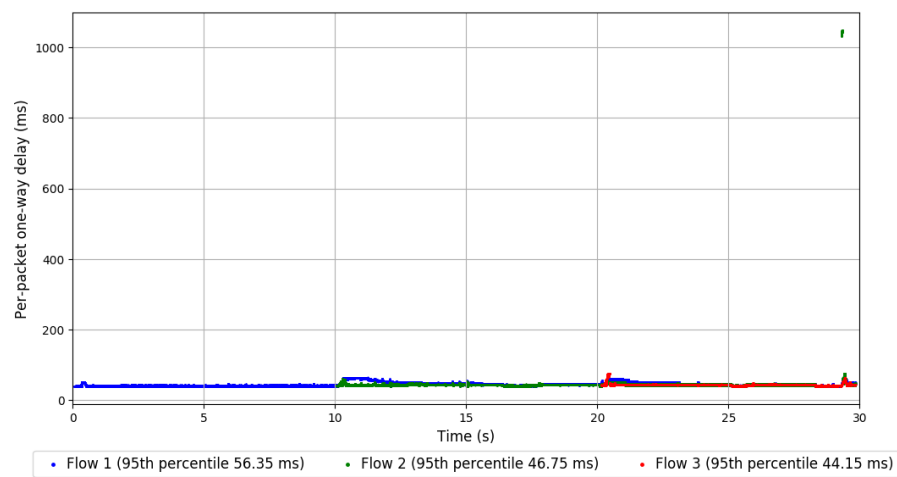
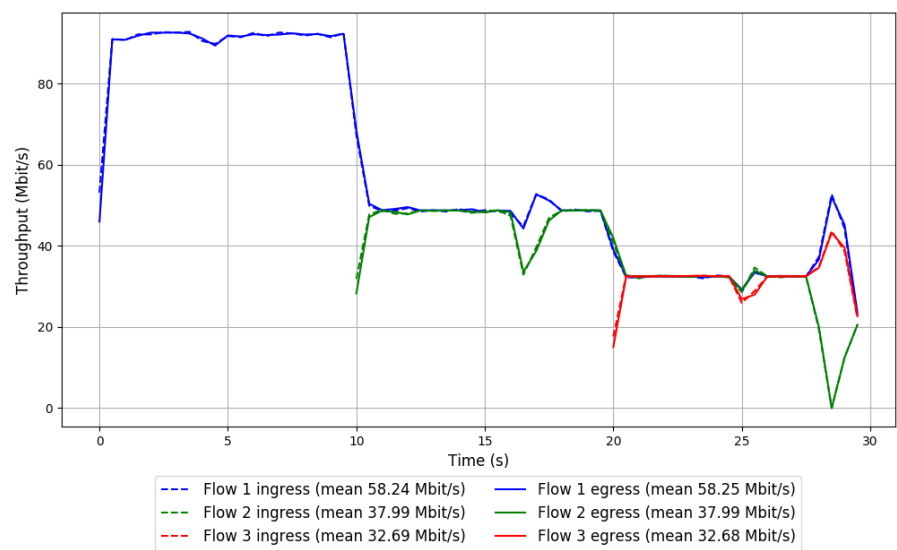


Run 6: Statistics of Indigo-1-128

Start at: 2018-01-26 12:23:00  
End at: 2018-01-26 12:23:30  
Local clock offset: 3.65 ms  
Remote clock offset: -13.139 ms

# Below is generated by plot.py at 2018-01-26 17:28:51  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.08 Mbit/s  
95th percentile per-packet one-way delay: 52.033 ms  
Loss rate: 0.12%  
-- Flow 1:  
Average throughput: 58.25 Mbit/s  
95th percentile per-packet one-way delay: 56.351 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 37.99 Mbit/s  
95th percentile per-packet one-way delay: 46.748 ms  
Loss rate: 0.14%  
-- Flow 3:  
Average throughput: 32.68 Mbit/s  
95th percentile per-packet one-way delay: 44.145 ms  
Loss rate: 0.36%

Run 6: Report of Indigo-1-128 — Data Link

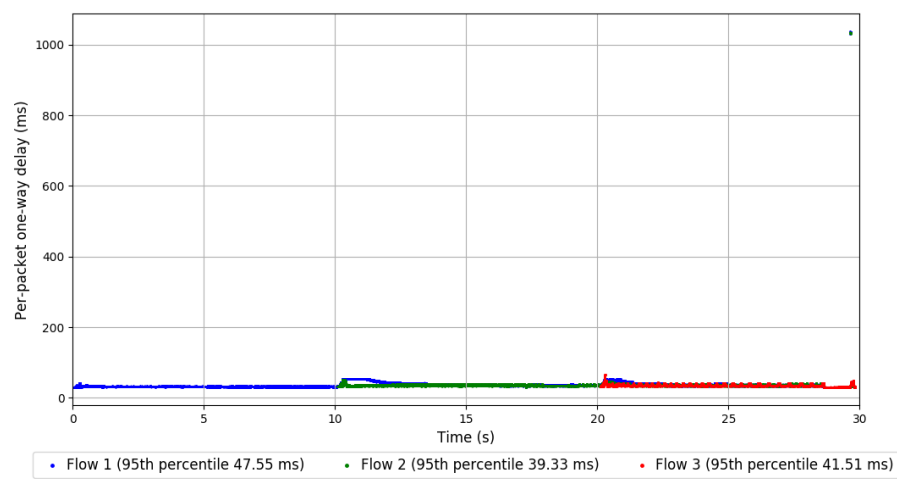
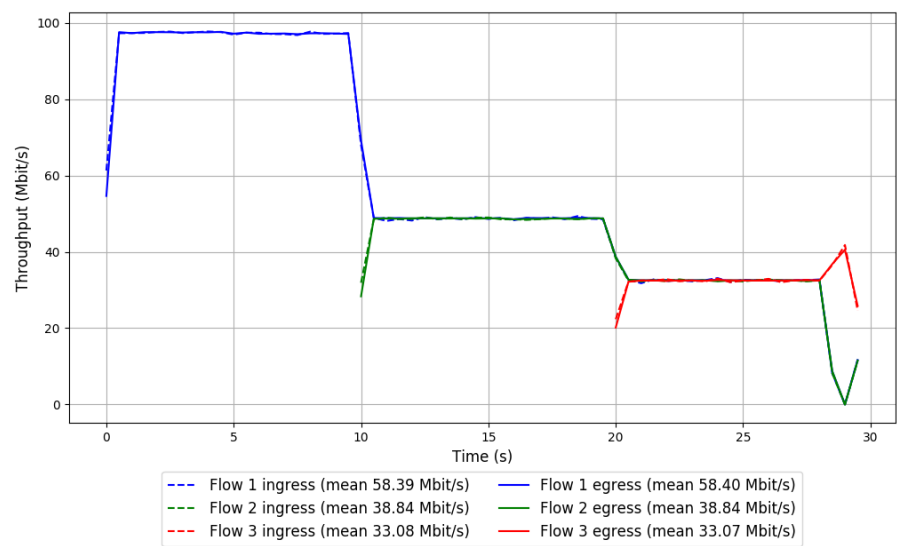


Run 7: Statistics of Indigo-1-128

Start at: 2018-01-26 12:42:34  
End at: 2018-01-26 12:43:04  
Local clock offset: 1.585 ms  
Remote clock offset: -10.54 ms

# Below is generated by plot.py at 2018-01-26 17:29:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 94.91 Mbit/s  
95th percentile per-packet one-way delay: 43.636 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 58.40 Mbit/s  
95th percentile per-packet one-way delay: 47.546 ms  
Loss rate: 0.06%  
-- Flow 2:  
Average throughput: 38.84 Mbit/s  
95th percentile per-packet one-way delay: 39.334 ms  
Loss rate: 0.12%  
-- Flow 3:  
Average throughput: 33.07 Mbit/s  
95th percentile per-packet one-way delay: 41.505 ms  
Loss rate: 0.30%

Run 7: Report of Indigo-1-128 — Data Link



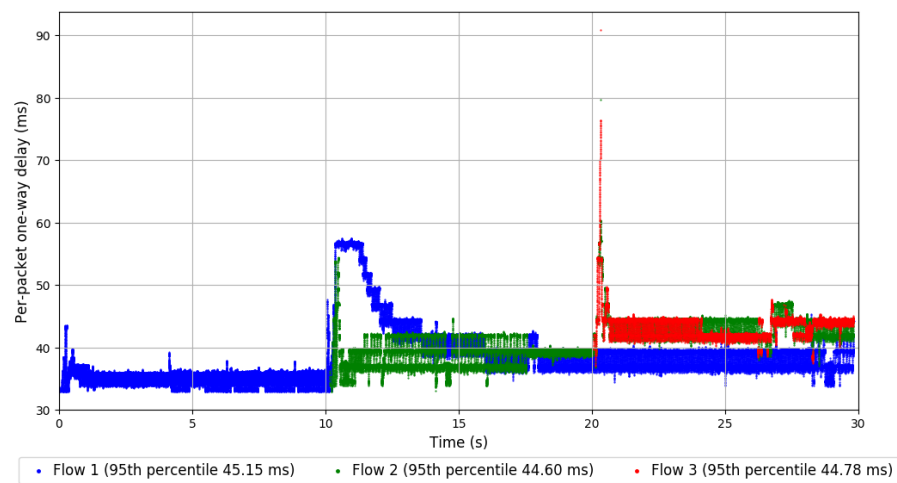
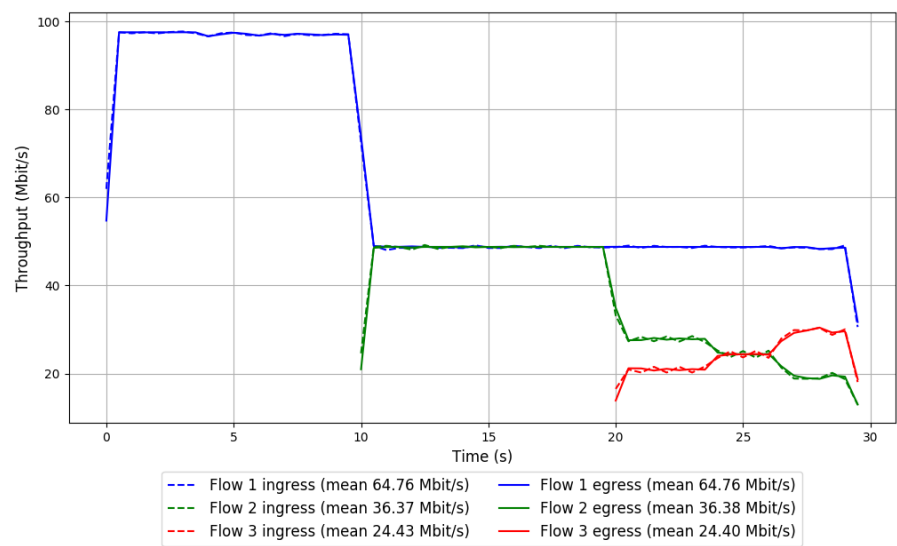
Run 8: Statistics of Indigo-1-128

Start at: 2018-01-26 13:02:18  
End at: 2018-01-26 13:02:48  
Local clock offset: 3.35 ms  
Remote clock offset: -10.815 ms

# Below is generated by plot.py at 2018-01-26 17:29:02  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.76 Mbit/s  
95th percentile per-packet one-way delay: 44.674 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 64.76 Mbit/s  
95th percentile per-packet one-way delay: 45.146 ms  
Loss rate: 0.07%  
-- Flow 2:  
Average throughput: 36.38 Mbit/s  
95th percentile per-packet one-way delay: 44.599 ms  
Loss rate: 0.10%  
-- Flow 3:  
Average throughput: 24.40 Mbit/s  
95th percentile per-packet one-way delay: 44.783 ms  
Loss rate: 0.45%



Run 8: Report of Indigo-1-128 — Data Link

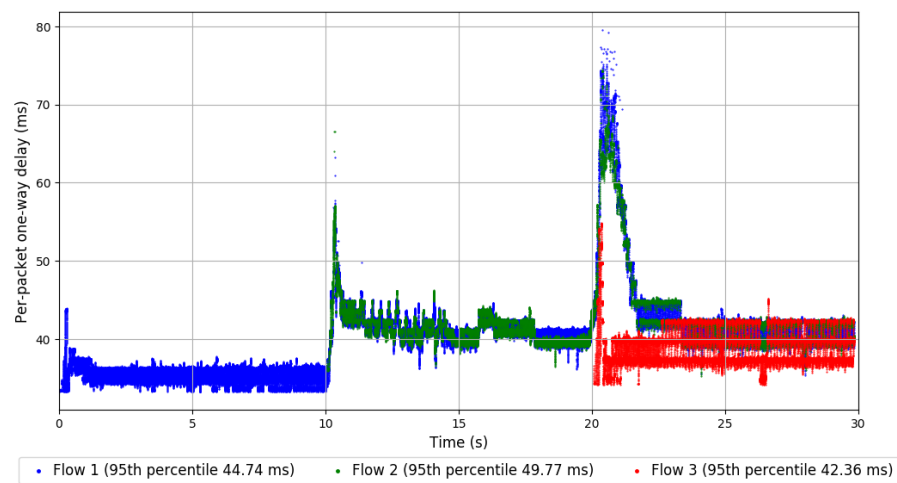
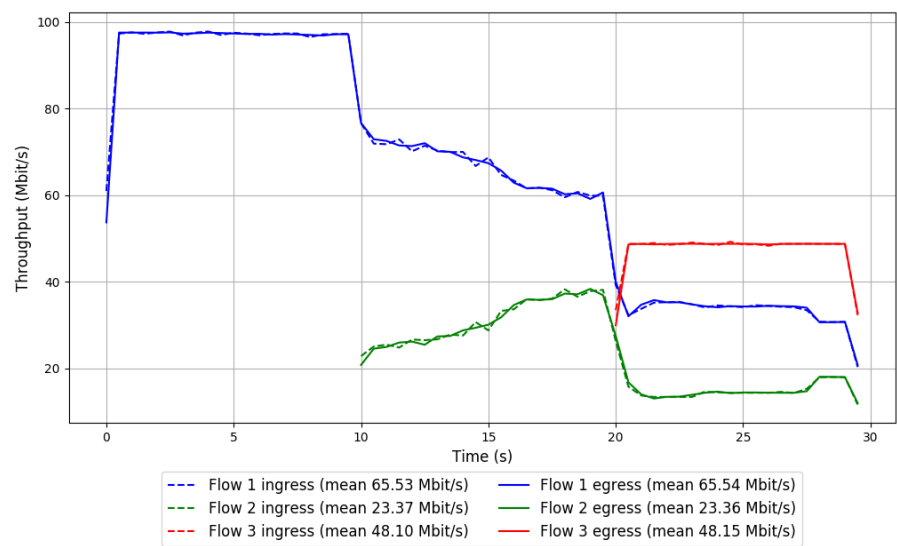


Run 9: Statistics of Indigo-1-128

Start at: 2018-01-26 13:21:53  
End at: 2018-01-26 13:22:23  
Local clock offset: 4.276 ms  
Remote clock offset: -11.647 ms

# Below is generated by plot.py at 2018-01-26 17:29:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.82 Mbit/s  
95th percentile per-packet one-way delay: 44.774 ms  
Loss rate: 0.11%  
-- Flow 1:  
Average throughput: 65.54 Mbit/s  
95th percentile per-packet one-way delay: 44.739 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 23.36 Mbit/s  
95th percentile per-packet one-way delay: 49.770 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 48.15 Mbit/s  
95th percentile per-packet one-way delay: 42.356 ms  
Loss rate: 0.33%

Run 9: Report of Indigo-1-128 — Data Link



Run 10: Statistics of Indigo-1-128

Start at: 2018-01-26 13:41:46  
End at: 2018-01-26 13:42:16  
Local clock offset: 3.381 ms  
Remote clock offset: -15.158 ms

# Below is generated by plot.py at 2018-01-26 17:29:09  
# Datalink statistics  
-- Total of 3 flows:  
Average throughput: 96.54 Mbit/s  
95th percentile per-packet one-way delay: 48.886 ms  
Loss rate: 0.10%  
-- Flow 1:  
Average throughput: 58.28 Mbit/s  
95th percentile per-packet one-way delay: 53.228 ms  
Loss rate: 0.05%  
-- Flow 2:  
Average throughput: 41.41 Mbit/s  
95th percentile per-packet one-way delay: 46.378 ms  
Loss rate: 0.13%  
-- Flow 3:  
Average throughput: 33.09 Mbit/s  
95th percentile per-packet one-way delay: 46.558 ms  
Loss rate: 0.29%

Run 10: Report of Indigo-1-128 — Data Link

