

Pantheon Report

Generated at 2017-08-21 10:00:01 (UTC).

Data path: GCE Sydney Ethernet (*local*) → GCE Tokyo Ethernet (*remote*).

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.

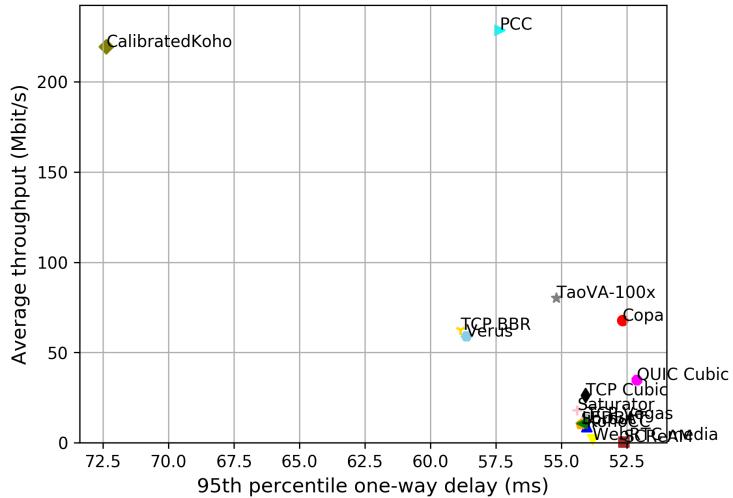
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

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

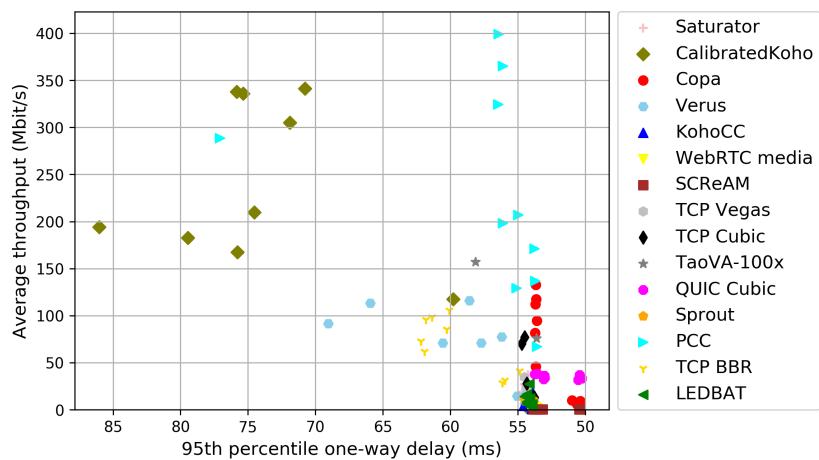
Git summary:

```
branch: master @ e43be7582298d552838afcfc6382342bf187fbbd6
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ dae96123232f1bcb37725348fa2378691ce26725
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-stimuli @ fc73a85ca16c34366d1888dc8a0d0d88d4ebf2a7
third_party/pantheon-tunnel @ baf443516dea3eeddeccaf9b916cc313273ca4f4
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 @ f1a14bffe749737437f61b1eaeeb30b267cde681
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/webrtc @ a488197ddd041ace68a42849b2540ad834825f42
```

test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



test from GCE Sydney Ethernet to GCE Tokyo Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows



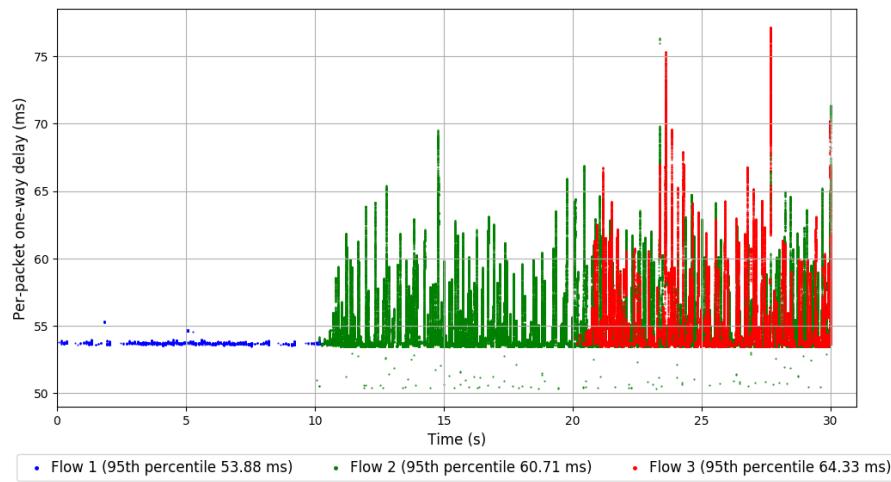
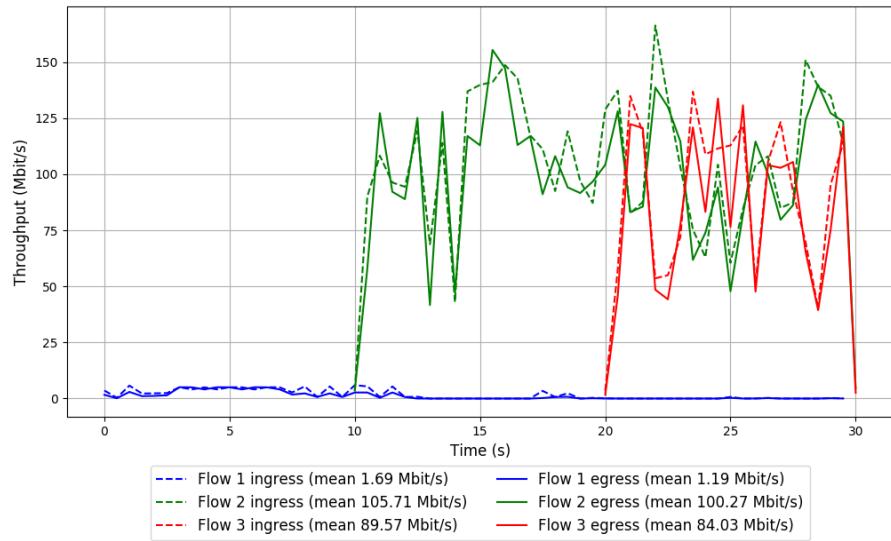
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	27.55	46.54	12.28	55.74	57.41	55.13	27.51	23.82	34.02
CalibratedKoho	10	122.28	128.02	36.39	64.15	67.97	65.17	39.30	29.85	53.73
Copa	9	50.17	36.09	30.69	52.68	53.35	53.89	42.21	38.54	44.28
TCP Cubic	10	11.62	14.53	15.24	53.95	53.95	54.05	2.53	5.22	6.69
KohoCC	9	5.01	3.91	3.92	53.93	53.91	54.14	53.52	64.02	61.54
LEDBAT	10	5.95	4.98	4.62	54.13	54.11	54.20	3.29	3.40	4.35
PCC	10	140.97	78.31	109.77	57.05	53.69	54.93	34.69	18.53	20.14
QUIC Cubic	10	0.06	38.81	28.04	52.48	51.72	50.83	0.00	0.00	0.00
Saturator	8	12.46	14.09	11.01	54.30	54.34	54.17	35.73	29.96	38.28
SCReAM	10	0.21	0.21	0.22	51.62	51.85	51.19	0.00	0.00	0.00
Sprout	10	5.01	5.56	4.96	54.06	54.10	54.18	11.08	10.01	11.04
TaoVA-100x	3	9.24	82.99	91.89	52.51	54.64	52.57	30.39	60.78	49.09
TCP Vegas	10	4.60	8.33	9.34	53.96	53.99	53.97	2.25	2.38	3.33
Verus	10	43.05	13.88	21.53	58.37	54.83	56.22	52.84	75.07	48.51
WebRTC media	10	0.21	1.41	0.33	53.92	52.17	54.01	0.00	0.00	0.00

```
Run 1: Statistics of TCP BBR

Start at: 2017-08-21 07:14:51
End at: 2017-08-21 07:15:21

# Below is generated by plot.py at 2017-08-21 09:43:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 95.81 Mbit/s
95th percentile per-packet one-way delay: 61.822 ms
Loss rate: 5.93%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 53.882 ms
Loss rate: 30.73%
-- Flow 2:
Average throughput: 100.27 Mbit/s
95th percentile per-packet one-way delay: 60.712 ms
Loss rate: 5.26%
-- Flow 3:
Average throughput: 84.03 Mbit/s
95th percentile per-packet one-way delay: 64.328 ms
Loss rate: 6.11%
```

Run 1: Report of TCP BBR — Data Link



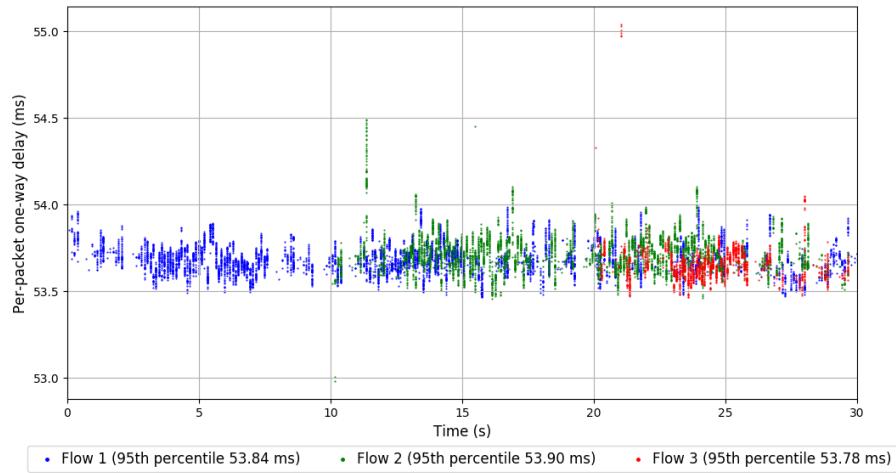
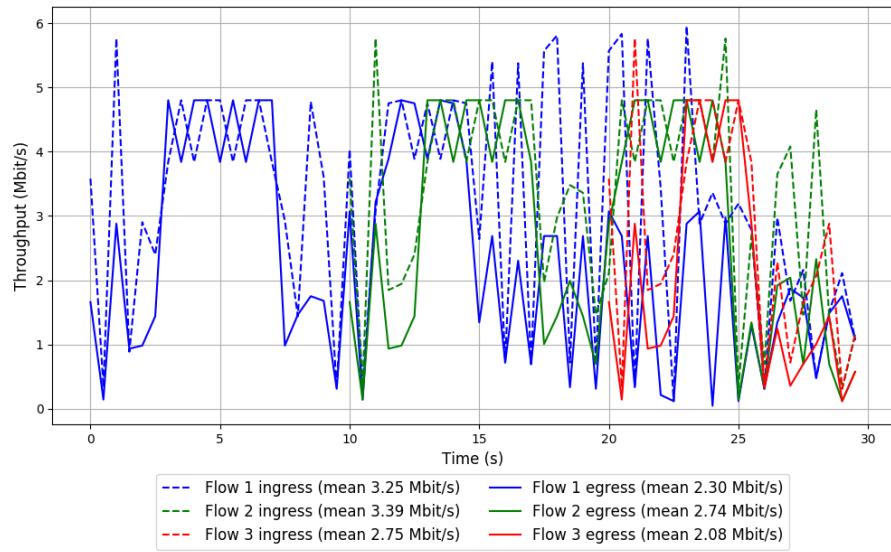
Run 2: Statistics of TCP BBR

Start at: 2017-08-21 07:25:32

End at: 2017-08-21 07:26:02

```
# Below is generated by plot.py at 2017-08-21 09:43:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.76 Mbit/s
95th percentile per-packet one-way delay: 53.861 ms
Loss rate: 25.27%
-- Flow 1:
Average throughput: 2.30 Mbit/s
95th percentile per-packet one-way delay: 53.839 ms
Loss rate: 29.25%
-- Flow 2:
Average throughput: 2.74 Mbit/s
95th percentile per-packet one-way delay: 53.897 ms
Loss rate: 19.46%
-- Flow 3:
Average throughput: 2.08 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 25.27%
```

Run 2: Report of TCP BBR — Data Link



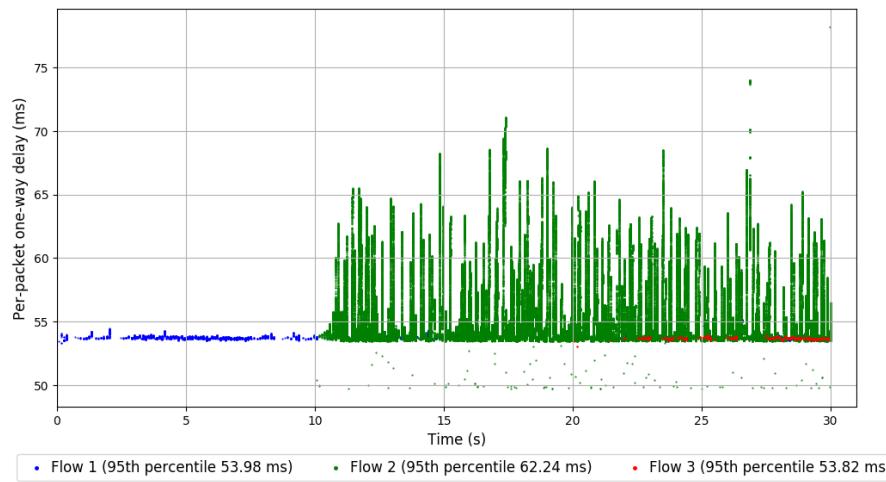
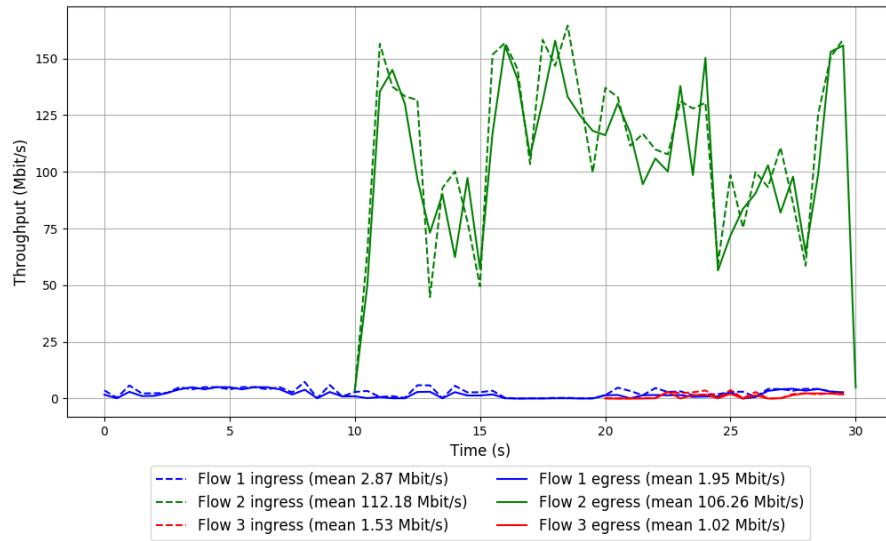
Run 3: Statistics of TCP BBR

Start at: 2017-08-21 07:36:20

End at: 2017-08-21 07:36:50

```
# Below is generated by plot.py at 2017-08-21 09:43:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 73.04 Mbit/s
95th percentile per-packet one-way delay: 62.172 ms
Loss rate: 6.42%
-- Flow 1:
Average throughput: 1.95 Mbit/s
95th percentile per-packet one-way delay: 53.977 ms
Loss rate: 31.99%
-- Flow 2:
Average throughput: 106.26 Mbit/s
95th percentile per-packet one-way delay: 62.245 ms
Loss rate: 5.25%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 33.99%
```

Run 3: Report of TCP BBR — Data Link



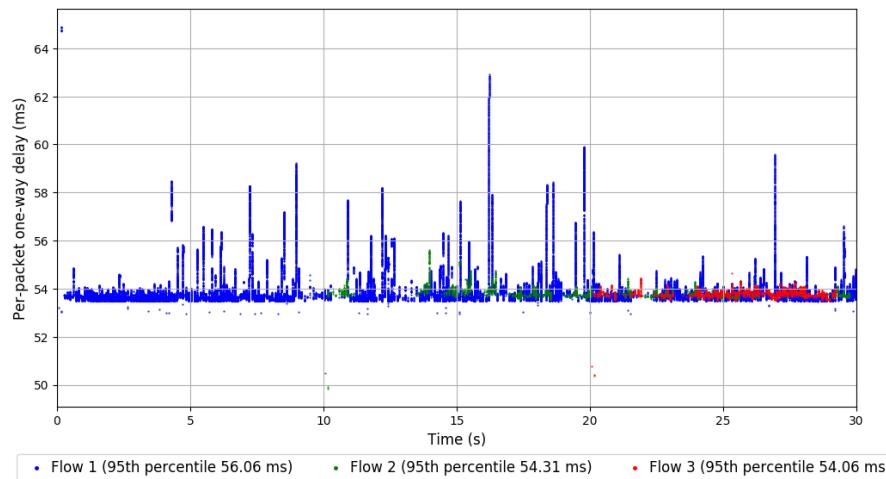
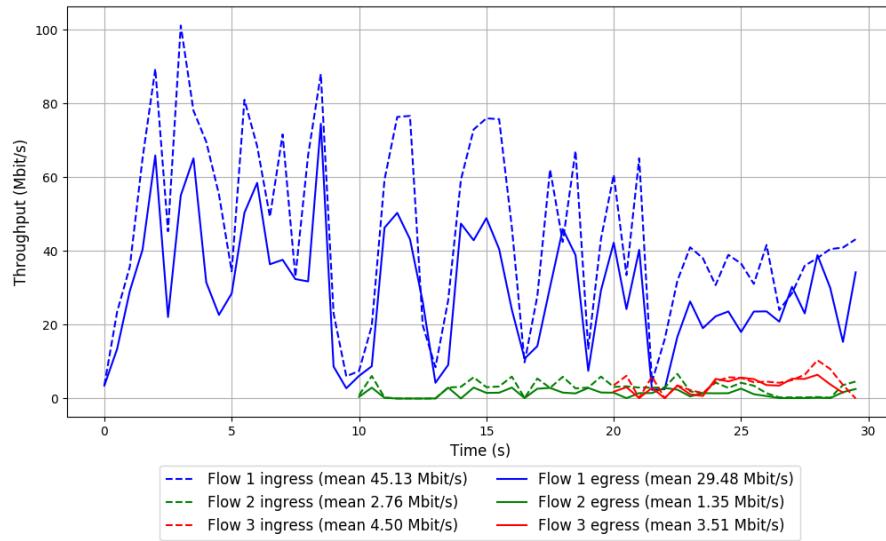
Run 4: Statistics of TCP BBR

Start at: 2017-08-21 07:47:28

End at: 2017-08-21 07:47:58

```
# Below is generated by plot.py at 2017-08-21 09:43:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.44 Mbit/s
95th percentile per-packet one-way delay: 55.965 ms
Loss rate: 35.04%
-- Flow 1:
Average throughput: 29.48 Mbit/s
95th percentile per-packet one-way delay: 56.064 ms
Loss rate: 34.69%
-- Flow 2:
Average throughput: 1.35 Mbit/s
95th percentile per-packet one-way delay: 54.307 ms
Loss rate: 51.27%
-- Flow 3:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 54.065 ms
Loss rate: 25.60%
```

Run 4: Report of TCP BBR — Data Link



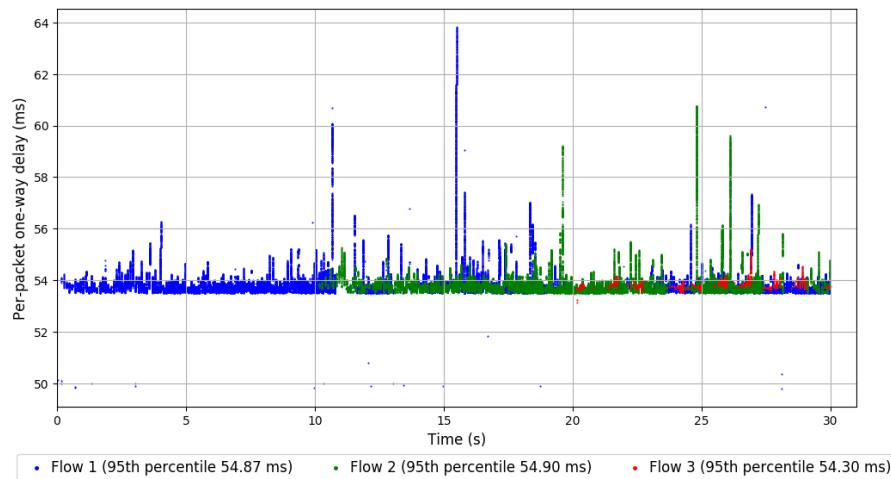
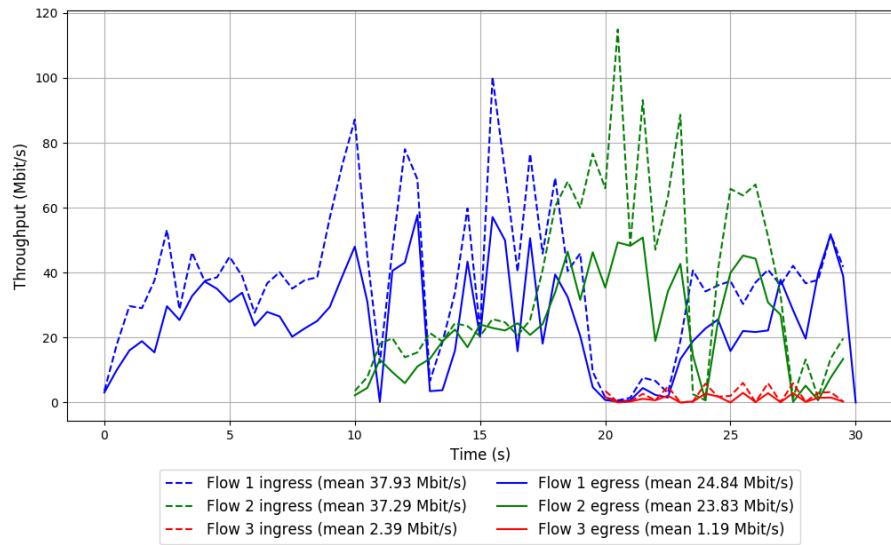
Run 5: Statistics of TCP BBR

Start at: 2017-08-21 07:58:11

End at: 2017-08-21 07:58:41

```
# Below is generated by plot.py at 2017-08-21 09:43:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.08 Mbit/s
95th percentile per-packet one-way delay: 54.874 ms
Loss rate: 35.32%
-- Flow 1:
Average throughput: 24.84 Mbit/s
95th percentile per-packet one-way delay: 54.870 ms
Loss rate: 34.50%
-- Flow 2:
Average throughput: 23.83 Mbit/s
95th percentile per-packet one-way delay: 54.903 ms
Loss rate: 36.08%
-- Flow 3:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 54.303 ms
Loss rate: 50.48%
```

Run 5: Report of TCP BBR — Data Link



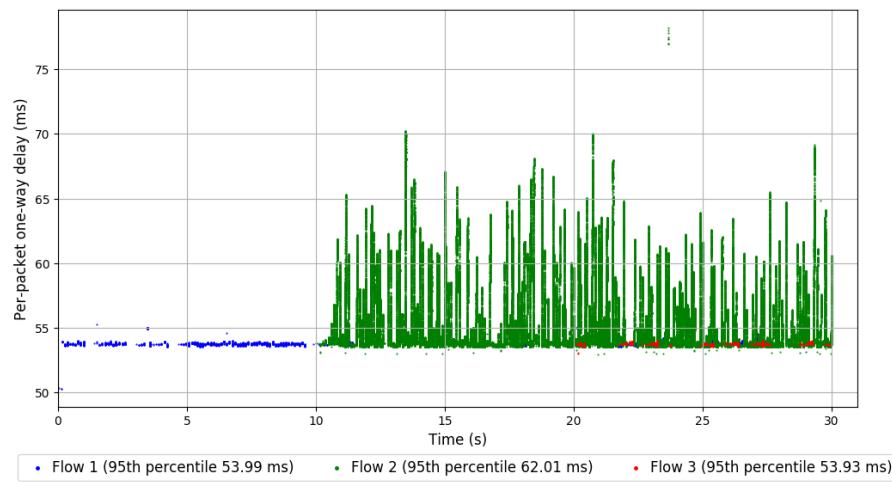
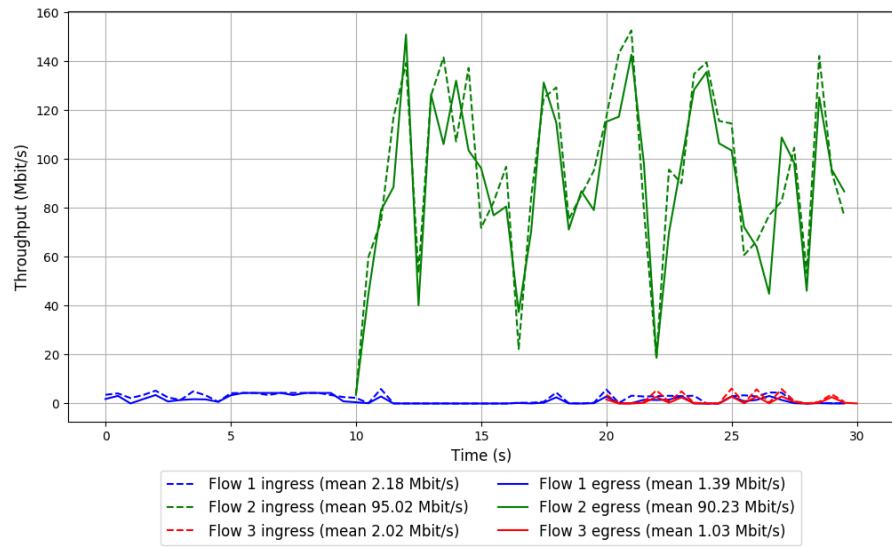
Run 6: Statistics of TCP BBR

Start at: 2017-08-21 08:08:59

End at: 2017-08-21 08:09:29

```
# Below is generated by plot.py at 2017-08-21 09:43:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 61.74 Mbit/s
95th percentile per-packet one-way delay: 61.932 ms
Loss rate: 6.50%
-- Flow 1:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 53.994 ms
Loss rate: 36.58%
-- Flow 2:
Average throughput: 90.23 Mbit/s
95th percentile per-packet one-way delay: 62.005 ms
Loss rate: 5.02%
-- Flow 3:
Average throughput: 1.03 Mbit/s
95th percentile per-packet one-way delay: 53.928 ms
Loss rate: 49.13%
```

Run 6: Report of TCP BBR — Data Link



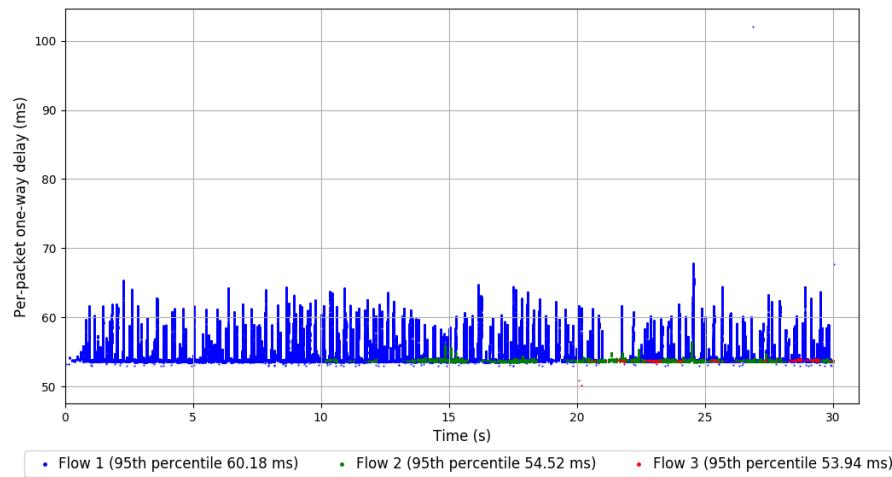
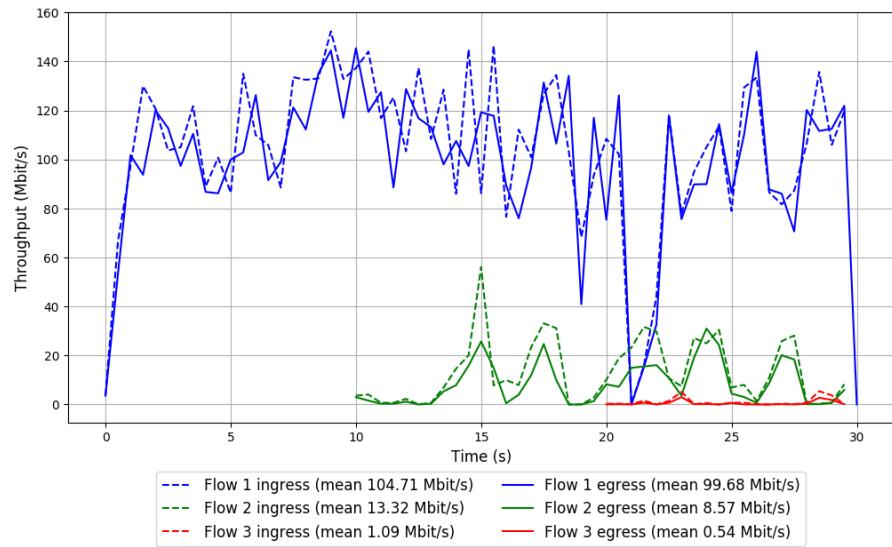
Run 7: Statistics of TCP BBR

Start at: 2017-08-21 08:20:07

End at: 2017-08-21 08:20:37

```
# Below is generated by plot.py at 2017-08-21 09:43:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 105.56 Mbit/s
95th percentile per-packet one-way delay: 60.081 ms
Loss rate: 7.32%
-- Flow 1:
Average throughput: 99.68 Mbit/s
95th percentile per-packet one-way delay: 60.183 ms
Loss rate: 4.77%
-- Flow 2:
Average throughput: 8.57 Mbit/s
95th percentile per-packet one-way delay: 54.523 ms
Loss rate: 35.65%
-- Flow 3:
Average throughput: 0.54 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 50.21%
```

Run 7: Report of TCP BBR — Data Link



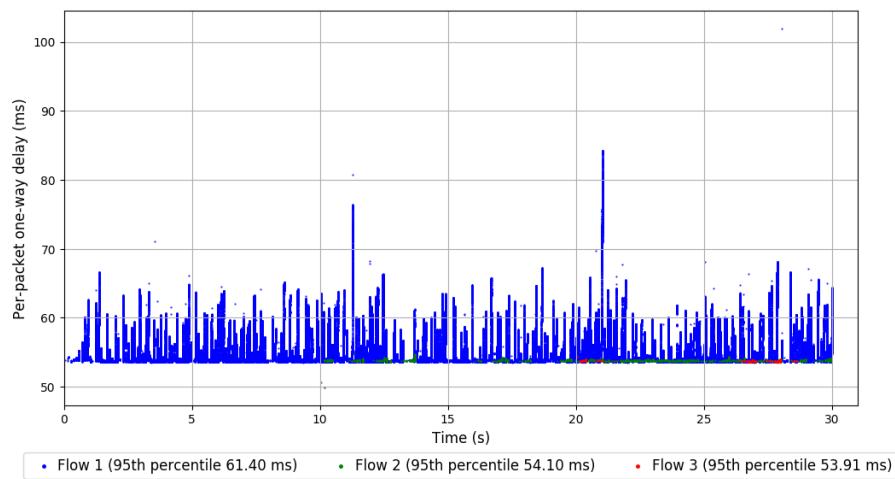
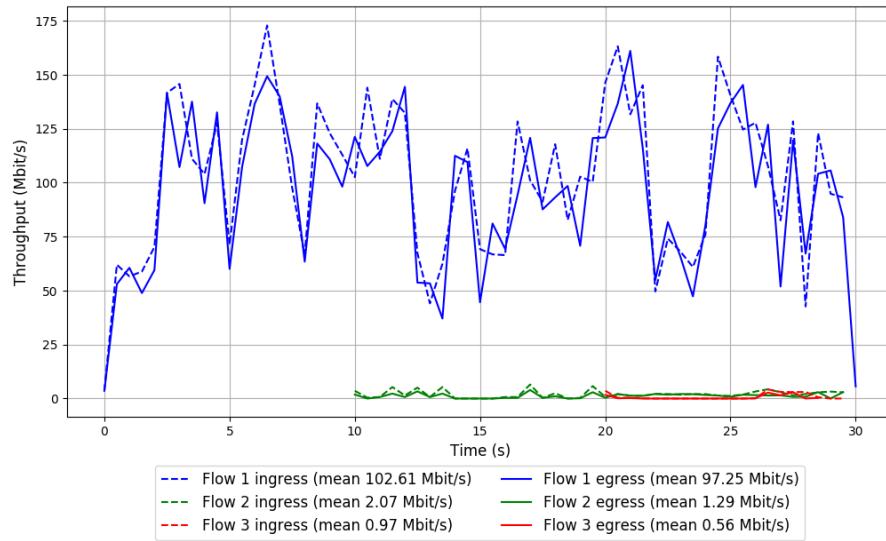
Run 8: Statistics of TCP BBR

Start at: 2017-08-21 08:30:58

End at: 2017-08-21 08:31:28

```
# Below is generated by plot.py at 2017-08-21 09:43:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 98.27 Mbit/s
95th percentile per-packet one-way delay: 61.370 ms
Loss rate: 5.75%
-- Flow 1:
Average throughput: 97.25 Mbit/s
95th percentile per-packet one-way delay: 61.396 ms
Loss rate: 5.20%
-- Flow 2:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 54.100 ms
Loss rate: 37.56%
-- Flow 3:
Average throughput: 0.56 Mbit/s
95th percentile per-packet one-way delay: 53.905 ms
Loss rate: 48.37%
```

Run 8: Report of TCP BBR — Data Link



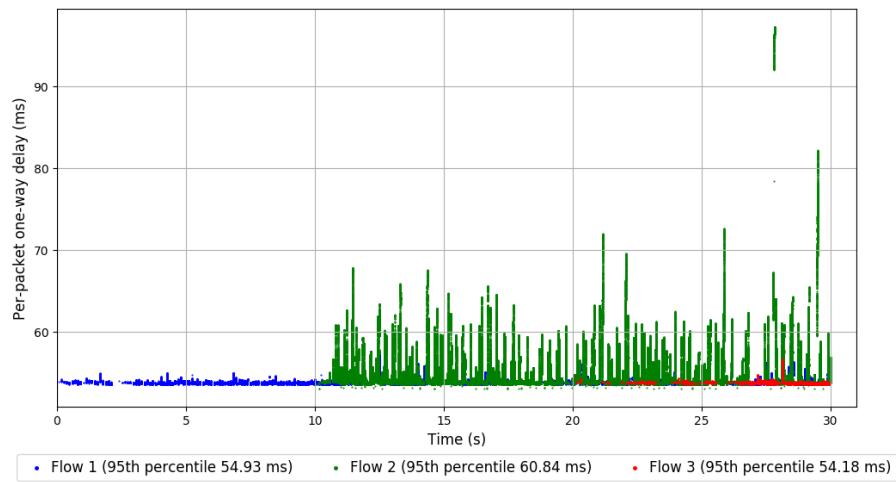
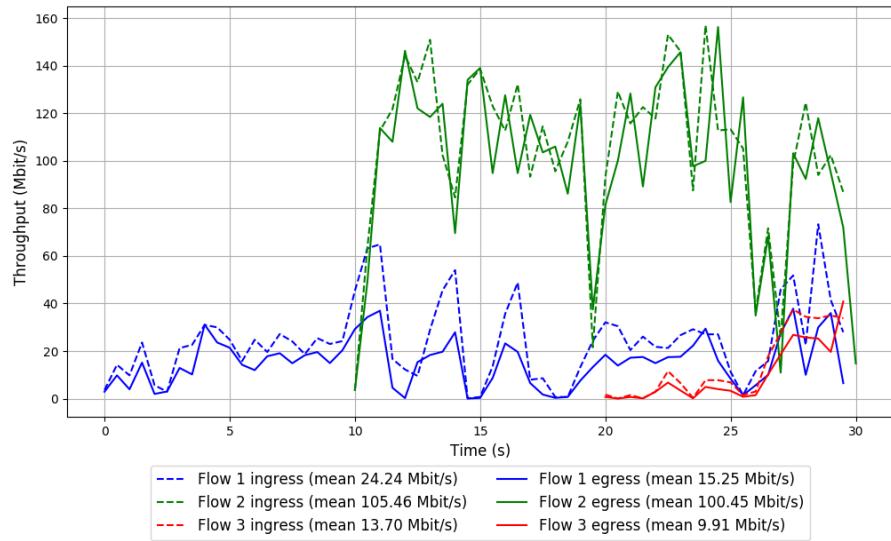
Run 9: Statistics of TCP BBR

Start at: 2017-08-21 08:41:48

End at: 2017-08-21 08:42:18

```
# Below is generated by plot.py at 2017-08-21 09:44:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.40 Mbit/s
95th percentile per-packet one-way delay: 60.272 ms
Loss rate: 13.71%
-- Flow 1:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 54.933 ms
Loss rate: 37.11%
-- Flow 2:
Average throughput: 100.45 Mbit/s
95th percentile per-packet one-way delay: 60.839 ms
Loss rate: 4.74%
-- Flow 3:
Average throughput: 9.91 Mbit/s
95th percentile per-packet one-way delay: 54.180 ms
Loss rate: 27.66%
```

Run 9: Report of TCP BBR — Data Link



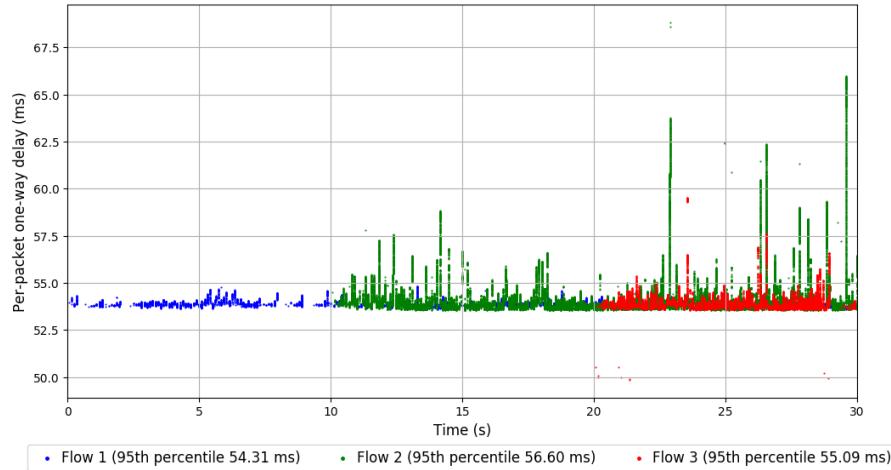
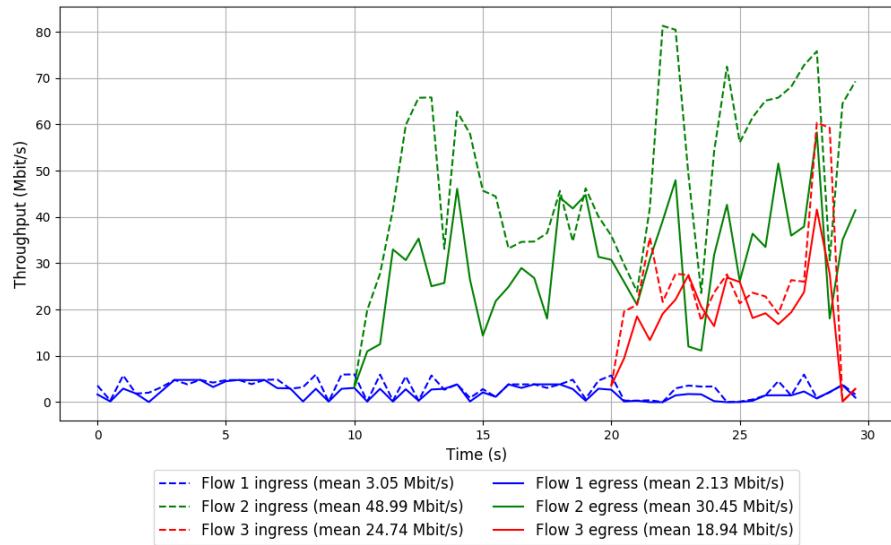
Run 10: Statistics of TCP BBR

Start at: 2017-08-21 08:52:40

End at: 2017-08-21 08:53:10

```
# Below is generated by plot.py at 2017-08-21 09:44:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 28.62 Mbit/s
95th percentile per-packet one-way delay: 56.140 ms
Loss rate: 34.72%
-- Flow 1:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 54.310 ms
Loss rate: 30.33%
-- Flow 2:
Average throughput: 30.45 Mbit/s
95th percentile per-packet one-way delay: 56.603 ms
Loss rate: 37.95%
-- Flow 3:
Average throughput: 18.94 Mbit/s
95th percentile per-packet one-way delay: 55.094 ms
Loss rate: 23.41%
```

Run 10: Report of TCP BBR — Data Link

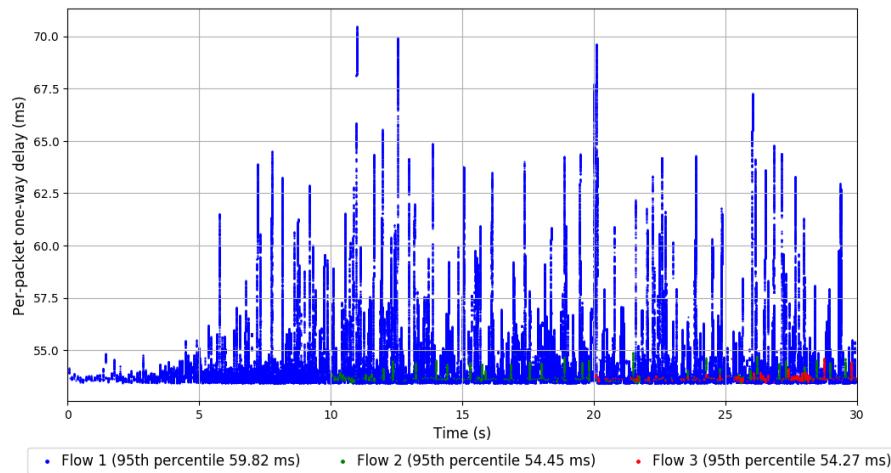
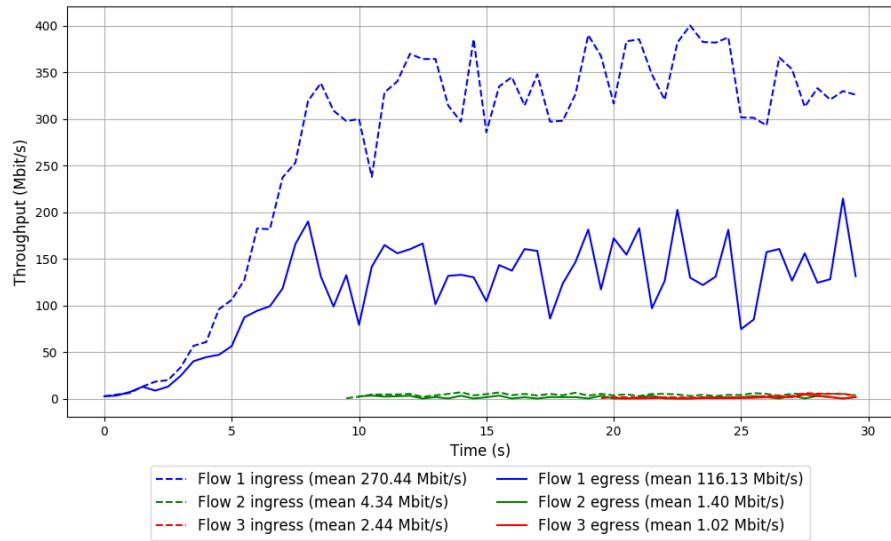


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-08-21 07:16:18
End at: 2017-08-21 07:16:48

# Below is generated by plot.py at 2017-08-21 09:44:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.40 Mbit/s
95th percentile per-packet one-way delay: 59.783 ms
Loss rate: 57.18%
-- Flow 1:
Average throughput: 116.13 Mbit/s
95th percentile per-packet one-way delay: 59.816 ms
Loss rate: 57.07%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 54.445 ms
Loss rate: 67.69%
-- Flow 3:
Average throughput: 1.02 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 57.92%
```

Run 1: Report of CalibratedKoho — Data Link



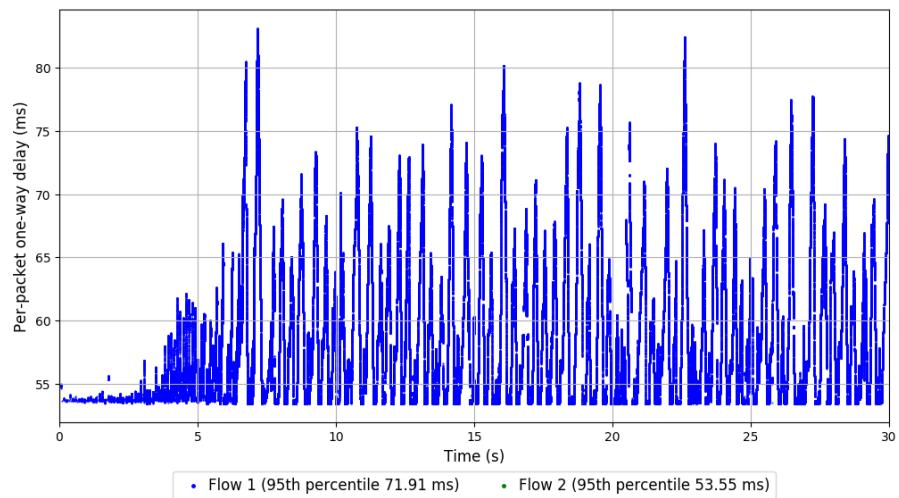
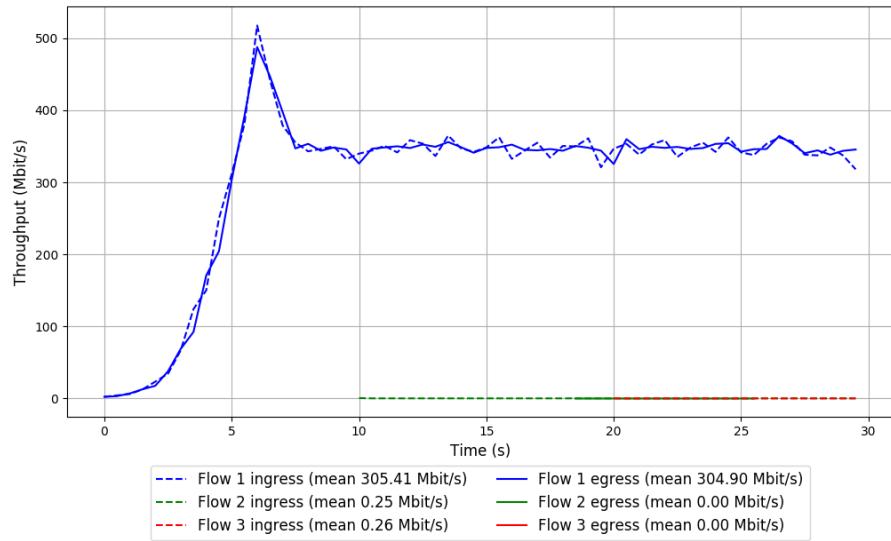
Run 2: Statistics of CalibratedKoho

Start at: 2017-08-21 07:26:53

End at: 2017-08-21 07:27:23

```
# Below is generated by plot.py at 2017-08-21 09:45:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 304.91 Mbit/s
95th percentile per-packet one-way delay: 71.909 ms
Loss rate: 0.25%
-- Flow 1:
Average throughput: 304.90 Mbit/s
95th percentile per-packet one-way delay: 71.909 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 53.546 ms
Loss rate: 99.52%
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

Run 2: Report of CalibratedKoho — Data Link



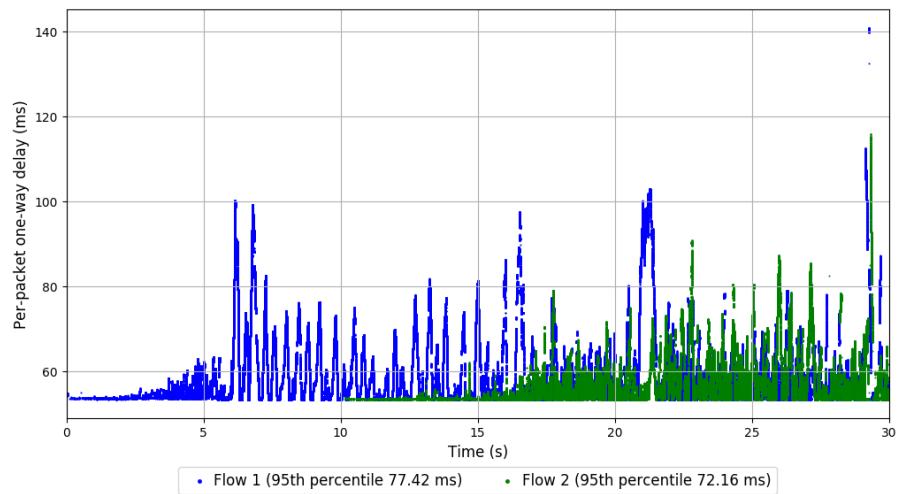
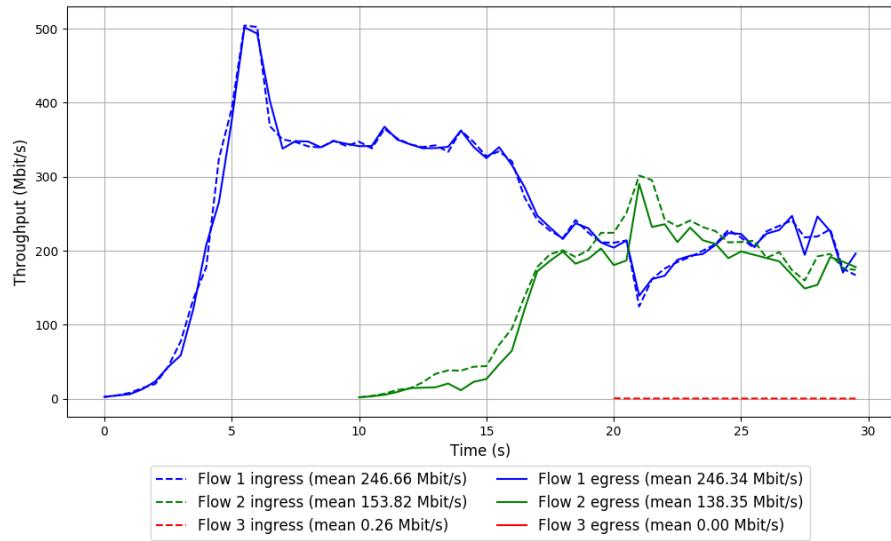
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 07:37:45
```

```
End at: 2017-08-21 07:38:15
```

```
# Below is generated by plot.py at 2017-08-21 09:45:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 337.90 Mbit/s
95th percentile per-packet one-way delay: 75.831 ms
Loss rate: 3.05%
-- Flow 1:
Average throughput: 246.34 Mbit/s
95th percentile per-packet one-way delay: 77.415 ms
Loss rate: 0.13%
-- Flow 2:
Average throughput: 138.35 Mbit/s
95th percentile per-packet one-way delay: 72.164 ms
Loss rate: 10.04%
-- Flow 3:
Average throughput: 0.00 Mbit/s
```

Run 3: Report of CalibratedKoho — Data Link



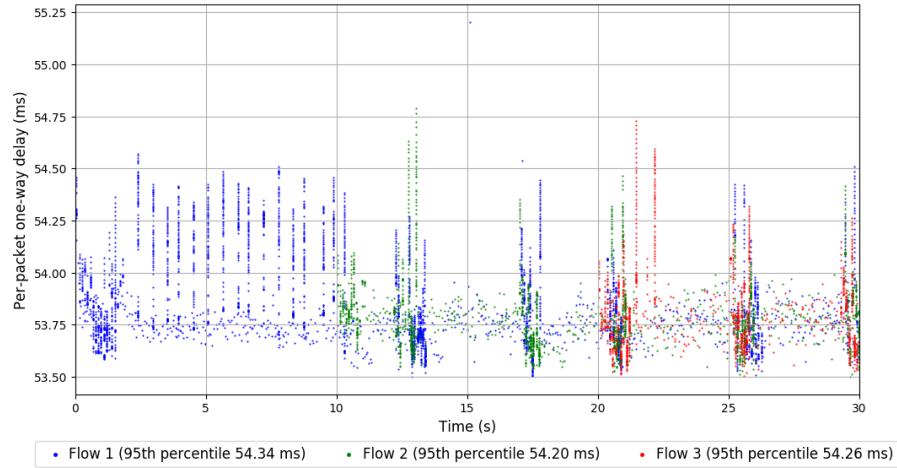
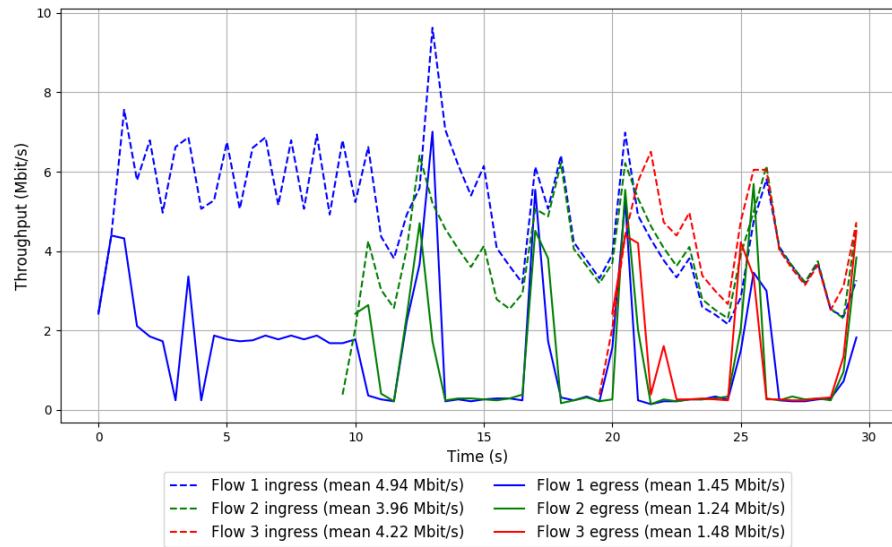
```
Run 4: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 07:48:52
```

```
End at: 2017-08-21 07:49:22
```

```
# Below is generated by plot.py at 2017-08-21 09:45:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 54.308 ms
Loss rate: 69.23%
-- Flow 1:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 54.338 ms
Loss rate: 70.75%
-- Flow 2:
Average throughput: 1.24 Mbit/s
95th percentile per-packet one-way delay: 54.202 ms
Loss rate: 68.66%
-- Flow 3:
Average throughput: 1.48 Mbit/s
95th percentile per-packet one-way delay: 54.260 ms
Loss rate: 64.96%
```

Run 4: Report of CalibratedKoho — Data Link



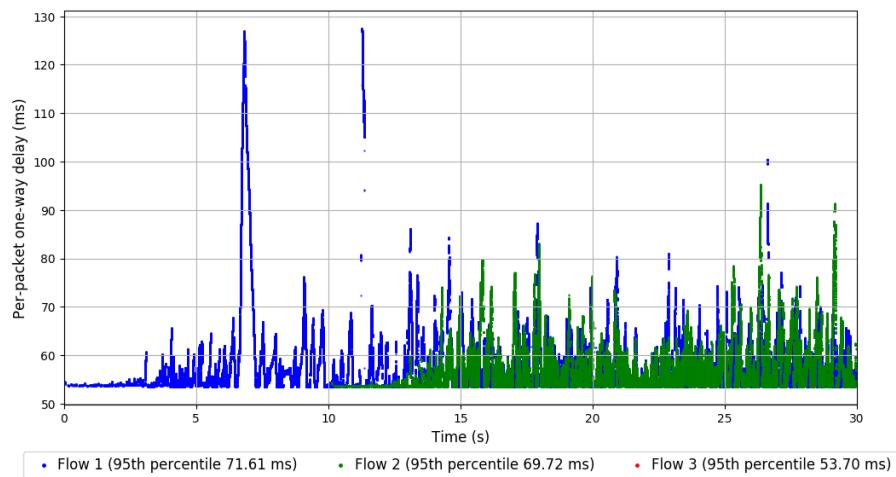
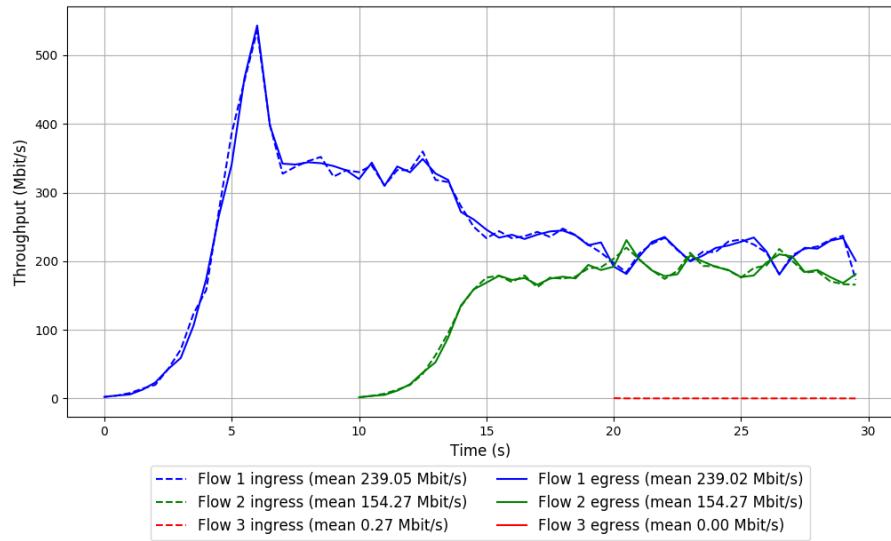
```
Run 5: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 07:59:34
```

```
End at: 2017-08-21 08:00:04
```

```
# Below is generated by plot.py at 2017-08-21 09:46:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.22 Mbit/s
95th percentile per-packet one-way delay: 70.779 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 239.02 Mbit/s
95th percentile per-packet one-way delay: 71.612 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 154.27 Mbit/s
95th percentile per-packet one-way delay: 69.725 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 0.00 Mbit/s
95th percentile per-packet one-way delay: 53.697 ms
Loss rate: 99.54%
```

Run 5: Report of CalibratedKoho — Data Link



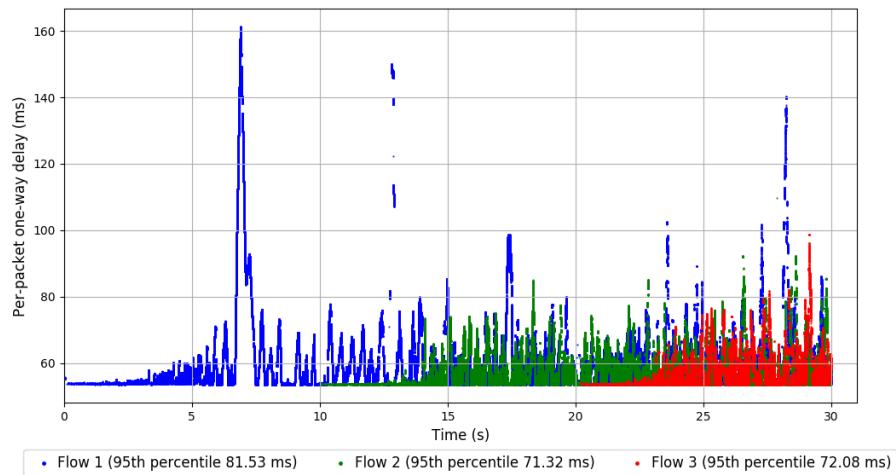
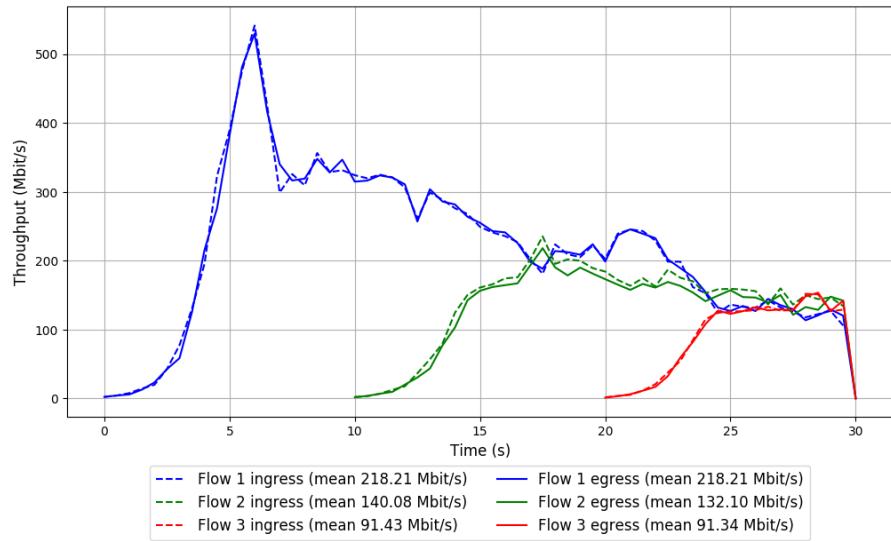
```
Run 6: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 08:10:23
```

```
End at: 2017-08-21 08:10:53
```

```
# Below is generated by plot.py at 2017-08-21 09:46:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 335.87 Mbit/s
95th percentile per-packet one-way delay: 75.349 ms
Loss rate: 1.58%
-- Flow 1:
Average throughput: 218.21 Mbit/s
95th percentile per-packet one-way delay: 81.526 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 132.10 Mbit/s
95th percentile per-packet one-way delay: 71.324 ms
Loss rate: 5.72%
-- Flow 3:
Average throughput: 91.34 Mbit/s
95th percentile per-packet one-way delay: 72.084 ms
Loss rate: 0.08%
```

Run 6: Report of CalibratedKoho — Data Link



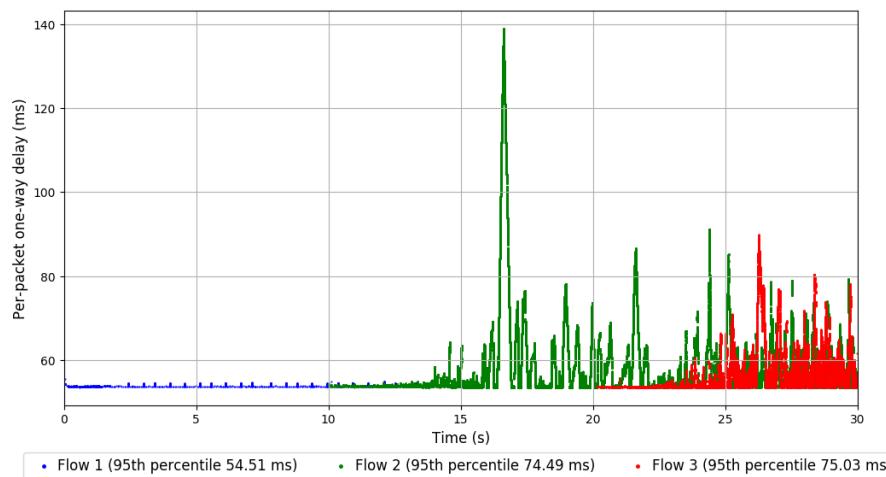
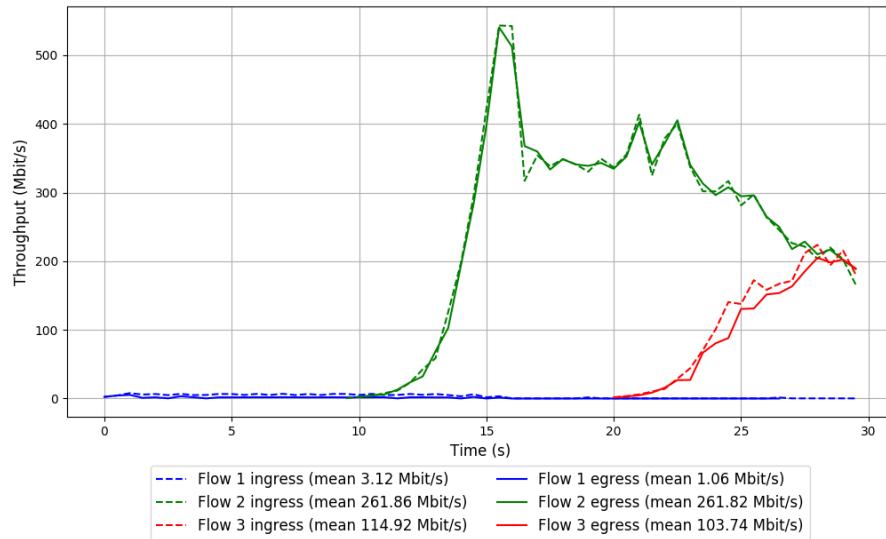
Run 7: Statistics of CalibratedKoho

Start at: 2017-08-21 08:21:35

End at: 2017-08-21 08:22:05

```
# Below is generated by plot.py at 2017-08-21 09:46:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 209.57 Mbit/s
95th percentile per-packet one-way delay: 74.526 ms
Loss rate: 2.74%
-- Flow 1:
Average throughput: 1.06 Mbit/s
95th percentile per-packet one-way delay: 54.506 ms
Loss rate: 69.51%
-- Flow 2:
Average throughput: 261.82 Mbit/s
95th percentile per-packet one-way delay: 74.492 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 103.74 Mbit/s
95th percentile per-packet one-way delay: 75.034 ms
Loss rate: 9.76%
```

Run 7: Report of CalibratedKoho — Data Link



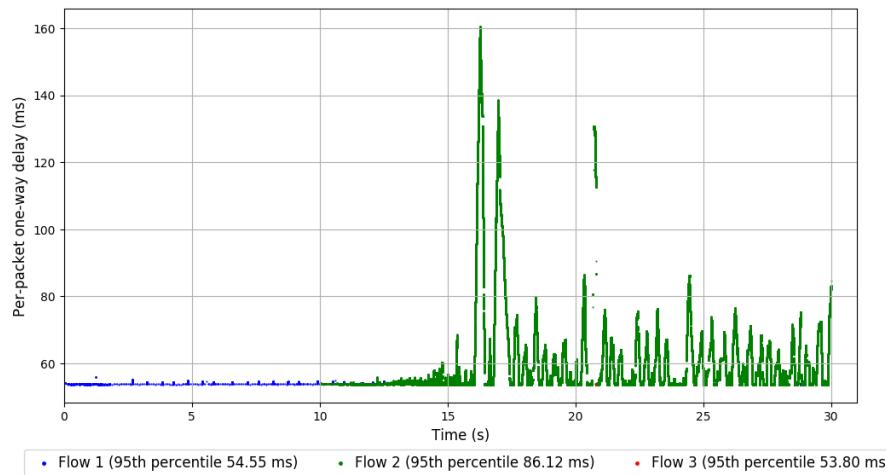
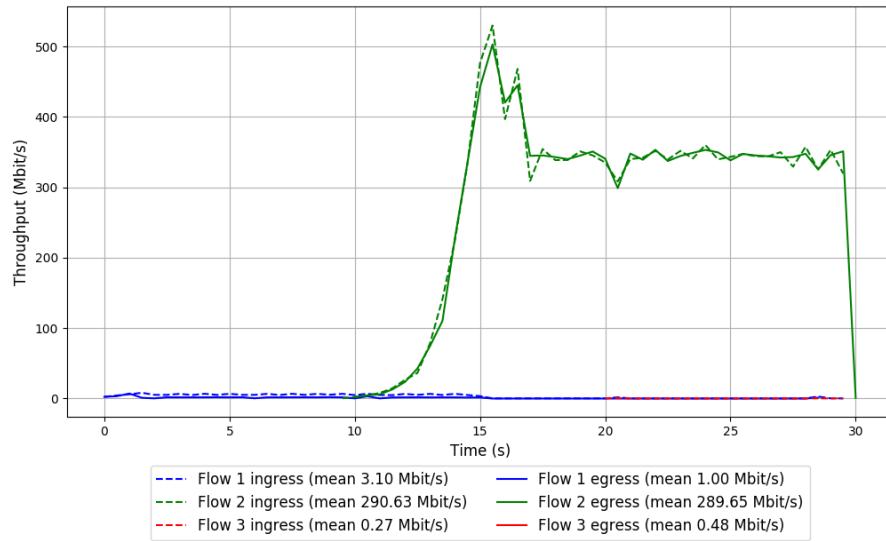
Run 8: Statistics of CalibratedKoho

Start at: 2017-08-21 08:32:25

End at: 2017-08-21 08:32:55

```
# Below is generated by plot.py at 2017-08-21 09:47:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 193.99 Mbit/s
95th percentile per-packet one-way delay: 86.036 ms
Loss rate: 1.45%
-- Flow 1:
Average throughput: 1.00 Mbit/s
95th percentile per-packet one-way delay: 54.547 ms
Loss rate: 68.83%
-- Flow 2:
Average throughput: 289.65 Mbit/s
95th percentile per-packet one-way delay: 86.116 ms
Loss rate: 0.33%
-- Flow 3:
Average throughput: 0.48 Mbit/s
95th percentile per-packet one-way delay: 53.798 ms
Loss rate: 99.11%
```

Run 8: Report of CalibratedKoho — Data Link



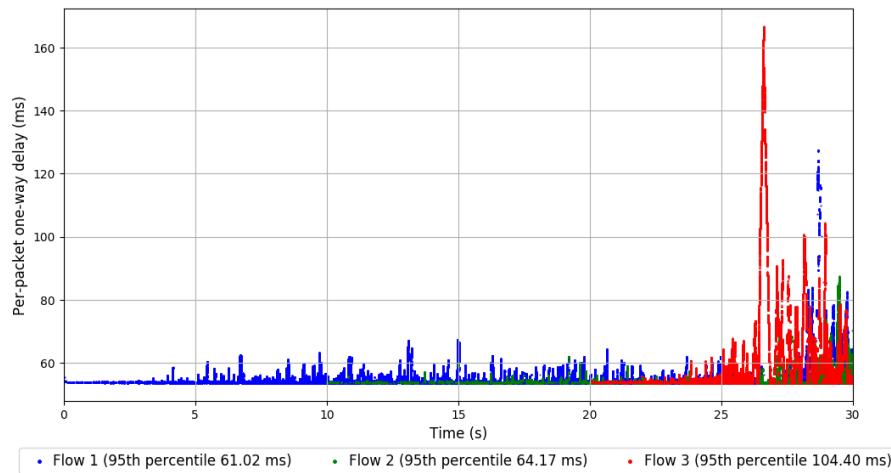
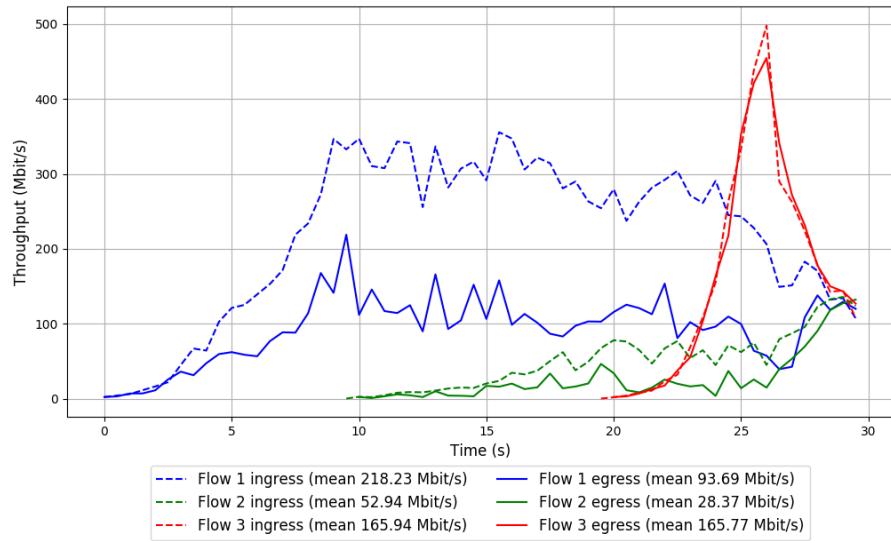
```
Run 9: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 08:43:14
```

```
End at: 2017-08-21 08:43:44
```

```
# Below is generated by plot.py at 2017-08-21 09:47:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 167.61 Mbit/s
95th percentile per-packet one-way delay: 75.785 ms
Loss rate: 45.69%
-- Flow 1:
Average throughput: 93.69 Mbit/s
95th percentile per-packet one-way delay: 61.025 ms
Loss rate: 57.08%
-- Flow 2:
Average throughput: 28.37 Mbit/s
95th percentile per-packet one-way delay: 64.171 ms
Loss rate: 46.41%
-- Flow 3:
Average throughput: 165.77 Mbit/s
95th percentile per-packet one-way delay: 104.396 ms
Loss rate: 0.10%
```

Run 9: Report of CalibratedKoho — Data Link



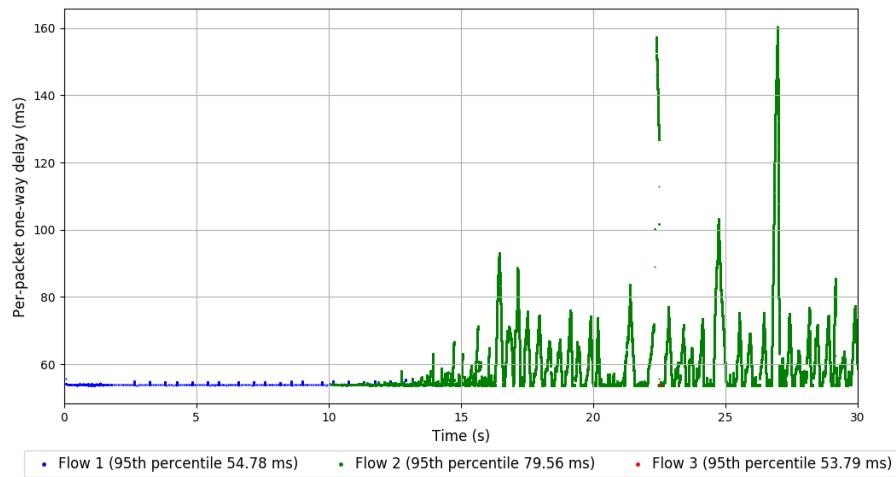
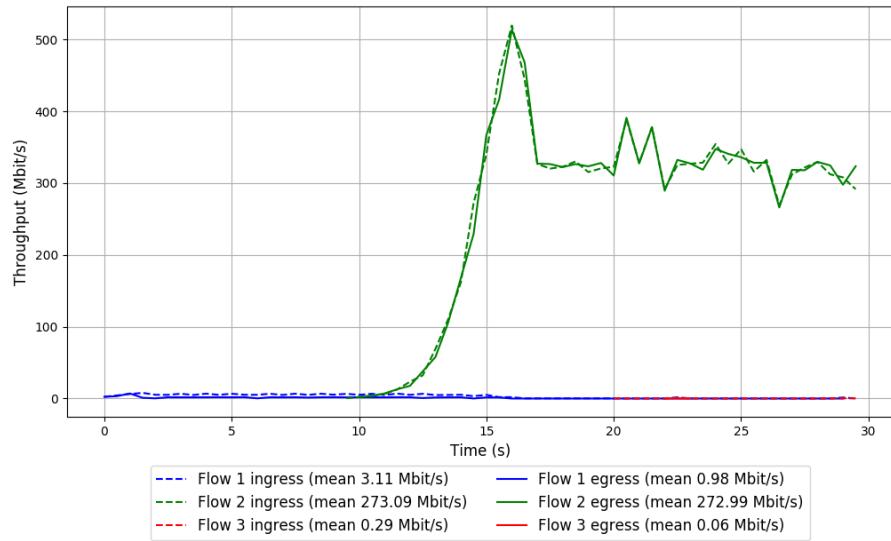
```
Run 10: Statistics of CalibratedKoho
```

```
Start at: 2017-08-21 08:54:02
```

```
End at: 2017-08-21 08:54:32
```

```
# Below is generated by plot.py at 2017-08-21 09:48:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 182.84 Mbit/s
95th percentile per-packet one-way delay: 79.450 ms
Loss rate: 1.25%
-- Flow 1:
Average throughput: 0.98 Mbit/s
95th percentile per-packet one-way delay: 54.776 ms
Loss rate: 69.41%
-- Flow 2:
Average throughput: 272.99 Mbit/s
95th percentile per-packet one-way delay: 79.559 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 98.35%
```

Run 10: Report of CalibratedKoho — Data Link

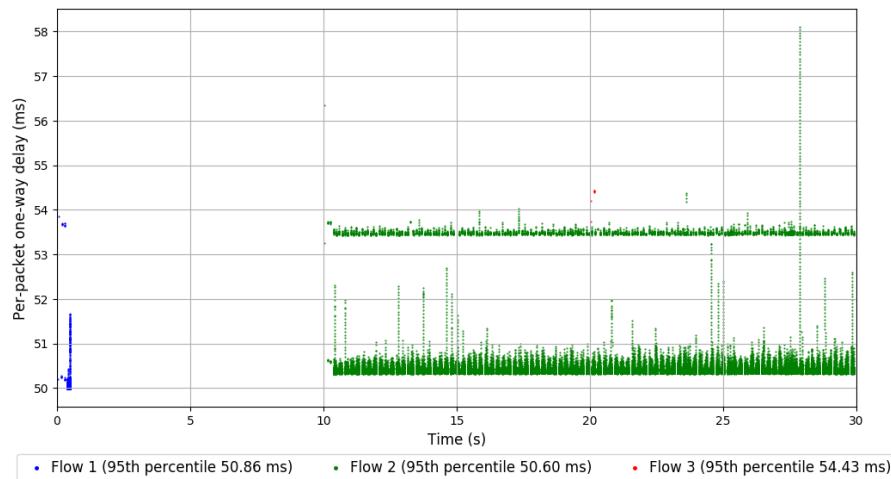
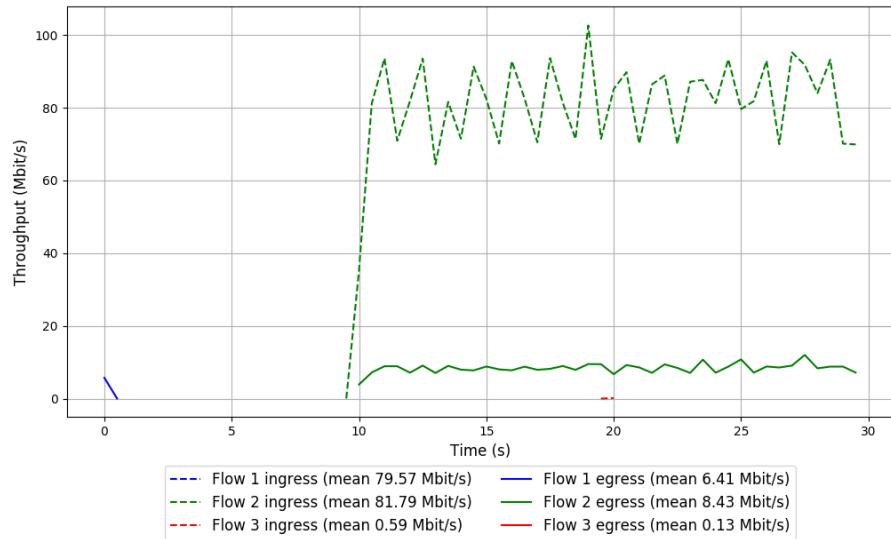


```
Run 1: Statistics of Copa

Start at: 2017-08-21 07:17:48
End at: 2017-08-21 07:18:18

# Below is generated by plot.py at 2017-08-21 09:48:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.71 Mbit/s
95th percentile per-packet one-way delay: 50.602 ms
Loss rate: 89.74%
-- Flow 1:
Average throughput: 6.41 Mbit/s
95th percentile per-packet one-way delay: 50.862 ms
Loss rate: 91.95%
-- Flow 2:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 50.600 ms
Loss rate: 89.69%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 54.428 ms
Loss rate: 76.95%
```

Run 1: Report of Copa — Data Link



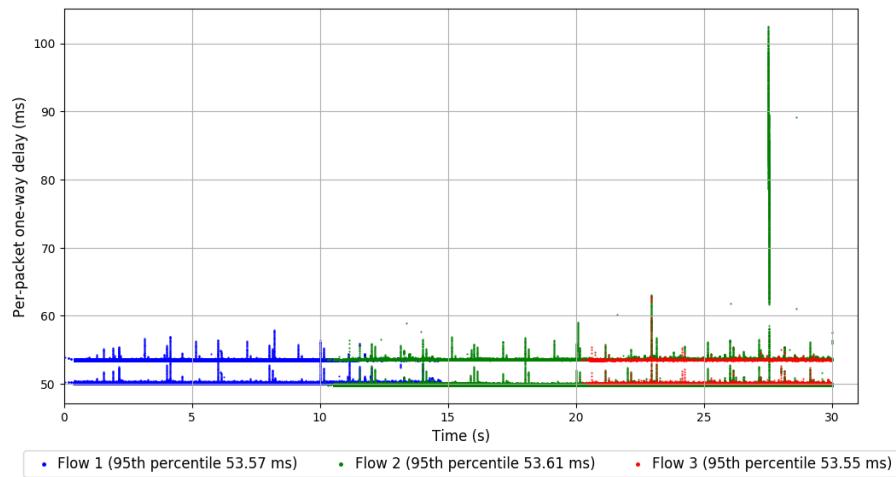
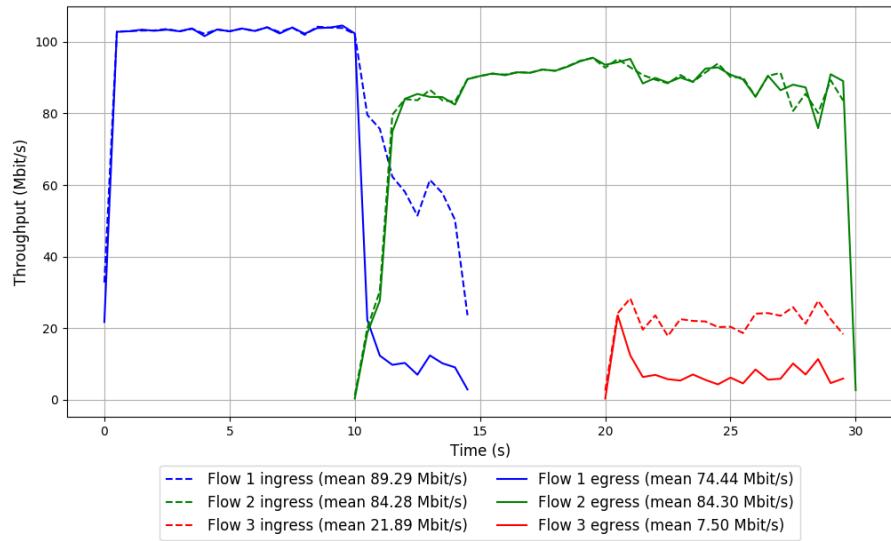
Run 2: Statistics of Copa

Start at: 2017-08-21 07:28:29

End at: 2017-08-21 07:28:59

```
# Below is generated by plot.py at 2017-08-21 09:48:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 94.66 Mbit/s
95th percentile per-packet one-way delay: 53.587 ms
Loss rate: 11.23%
-- Flow 1:
Average throughput: 74.44 Mbit/s
95th percentile per-packet one-way delay: 53.572 ms
Loss rate: 16.63%
-- Flow 2:
Average throughput: 84.30 Mbit/s
95th percentile per-packet one-way delay: 53.606 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 53.553 ms
Loss rate: 65.72%
```

Run 2: Report of Copa — Data Link



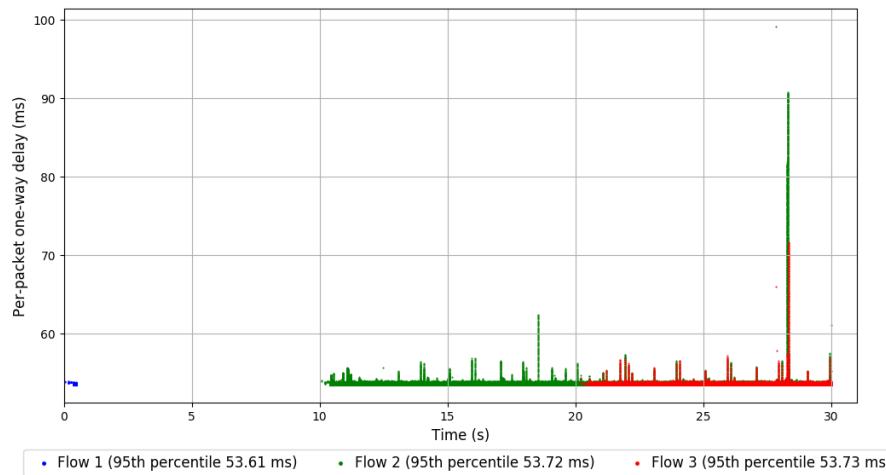
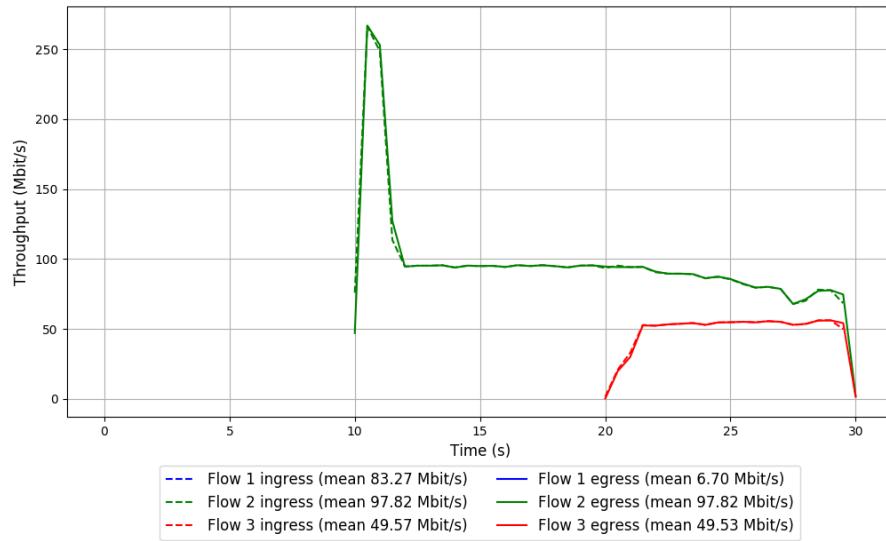
Run 3: Statistics of Copa

Start at: 2017-08-21 07:39:24

End at: 2017-08-21 07:39:54

```
# Below is generated by plot.py at 2017-08-21 09:48:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 81.47 Mbit/s
95th percentile per-packet one-way delay: 53.720 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 6.70 Mbit/s
95th percentile per-packet one-way delay: 53.607 ms
Loss rate: 91.95%
-- Flow 2:
Average throughput: 97.82 Mbit/s
95th percentile per-packet one-way delay: 53.718 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 49.53 Mbit/s
95th percentile per-packet one-way delay: 53.729 ms
Loss rate: 0.03%
```

Run 3: Report of Copa — Data Link

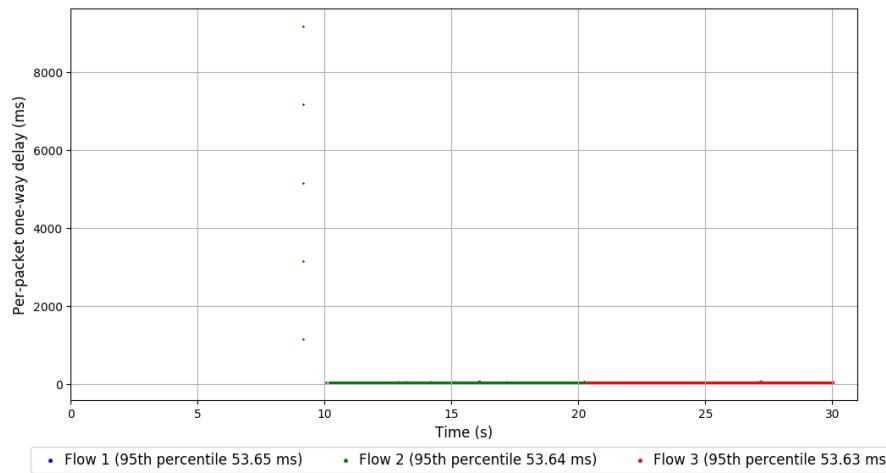
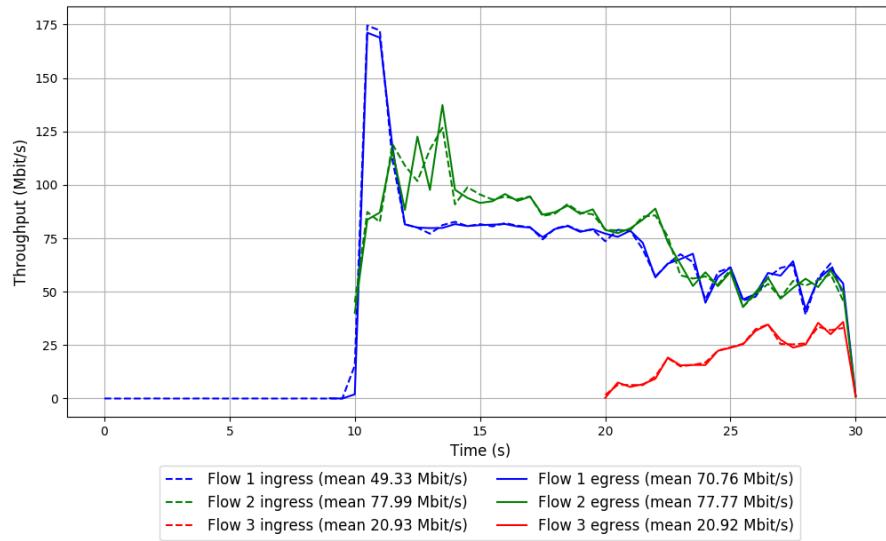


Run 4: Statistics of Copa

Start at: 2017-08-21 07:50:11

End at: 2017-08-21 07:50:41

Run 4: Report of Copa — Data Link



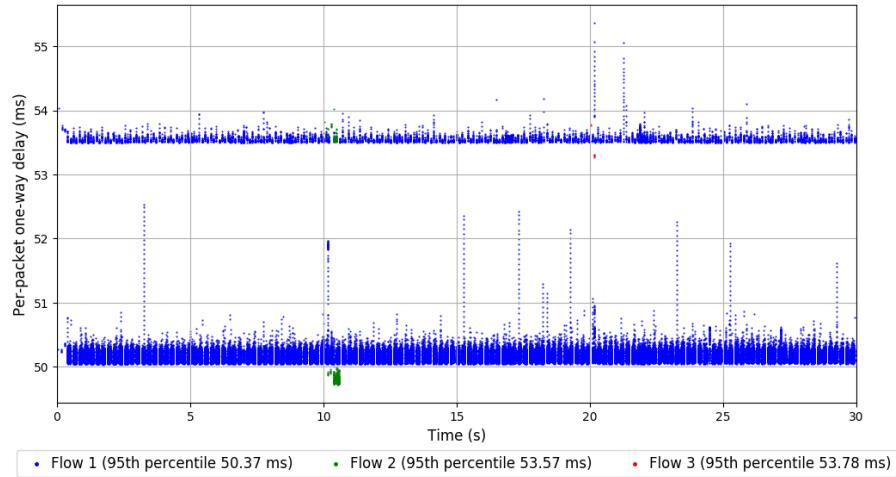
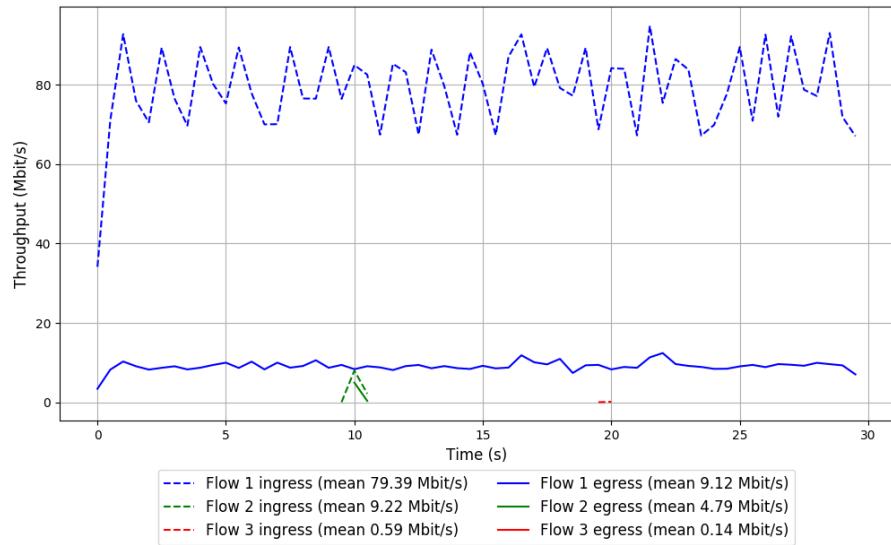
Run 5: Statistics of Copa

Start at: 2017-08-21 08:01:17

End at: 2017-08-21 08:01:47

```
# Below is generated by plot.py at 2017-08-21 09:49:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.21 Mbit/s
95th percentile per-packet one-way delay: 50.371 ms
Loss rate: 88.43%
-- Flow 1:
Average throughput: 9.12 Mbit/s
95th percentile per-packet one-way delay: 50.365 ms
Loss rate: 88.51%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 53.571 ms
Loss rate: 48.17%
-- Flow 3:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.776 ms
Loss rate: 76.95%
```

Run 5: Report of Copa — Data Link



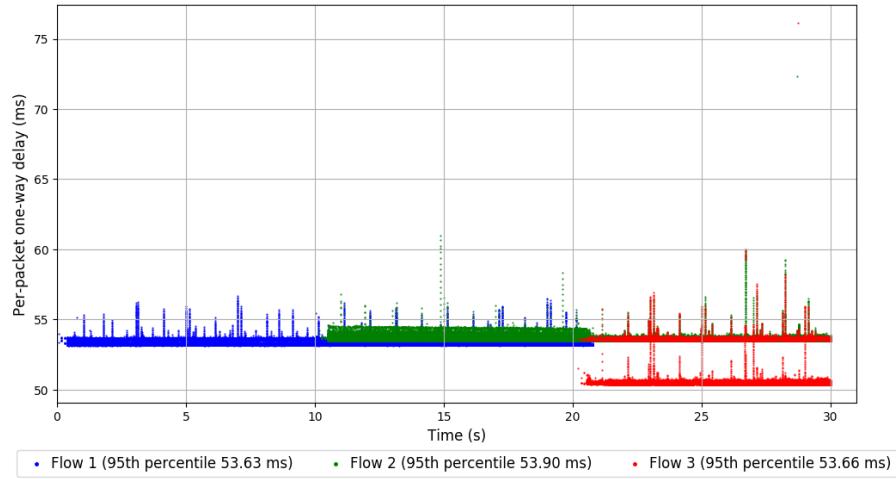
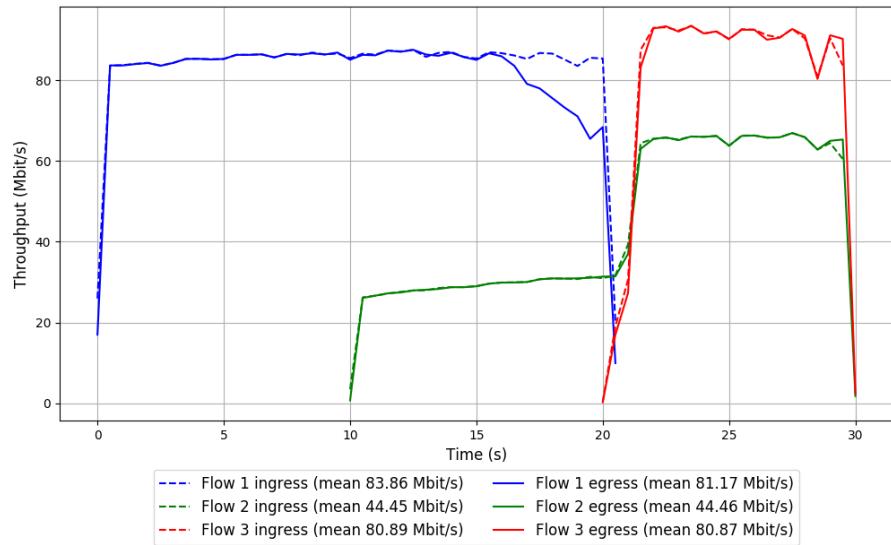
Run 6: Statistics of Copa

Start at: 2017-08-21 08:12:07

End at: 2017-08-21 08:12:37

```
# Below is generated by plot.py at 2017-08-21 09:49:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 112.07 Mbit/s
95th percentile per-packet one-way delay: 53.691 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 81.17 Mbit/s
95th percentile per-packet one-way delay: 53.635 ms
Loss rate: 3.22%
-- Flow 2:
Average throughput: 44.46 Mbit/s
95th percentile per-packet one-way delay: 53.903 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 80.87 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.07%
```

Run 6: Report of Copa — Data Link



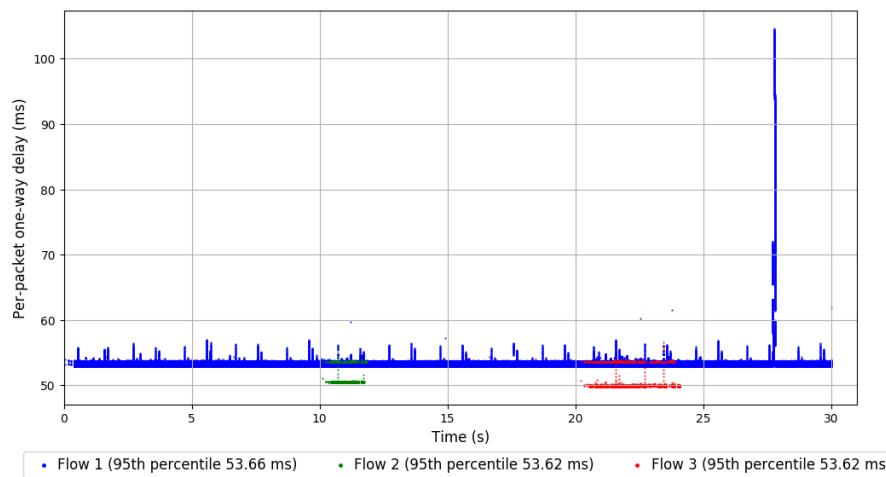
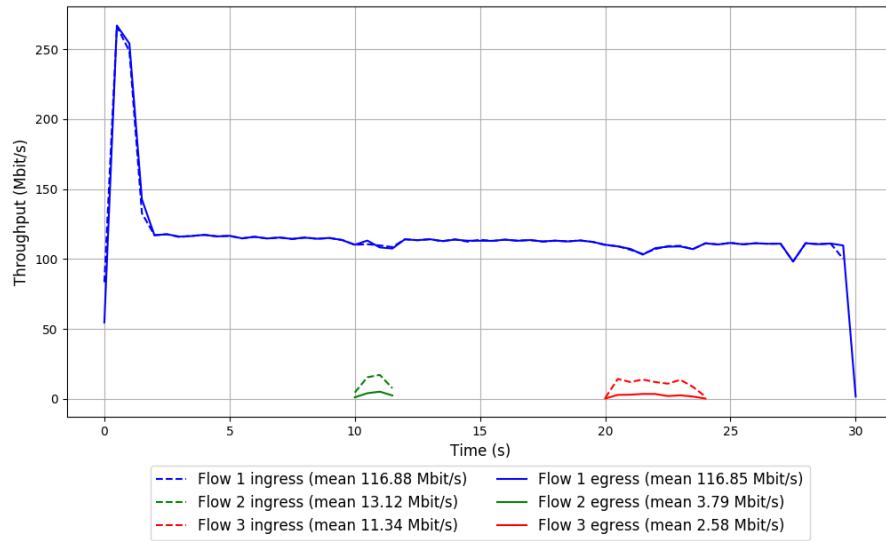
Run 7: Statistics of Copa

Start at: 2017-08-21 08:23:09

End at: 2017-08-21 08:23:39

```
# Below is generated by plot.py at 2017-08-21 09:49:57
# Datalink statistics
-- Total of 3 flows:
Average throughput: 117.40 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 116.85 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 3.79 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 71.08%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 77.22%
```

Run 7: Report of Copa — Data Link



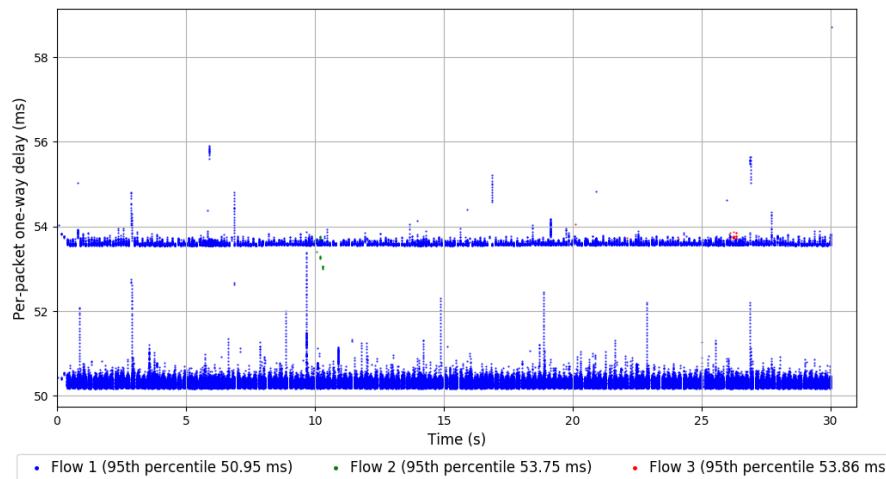
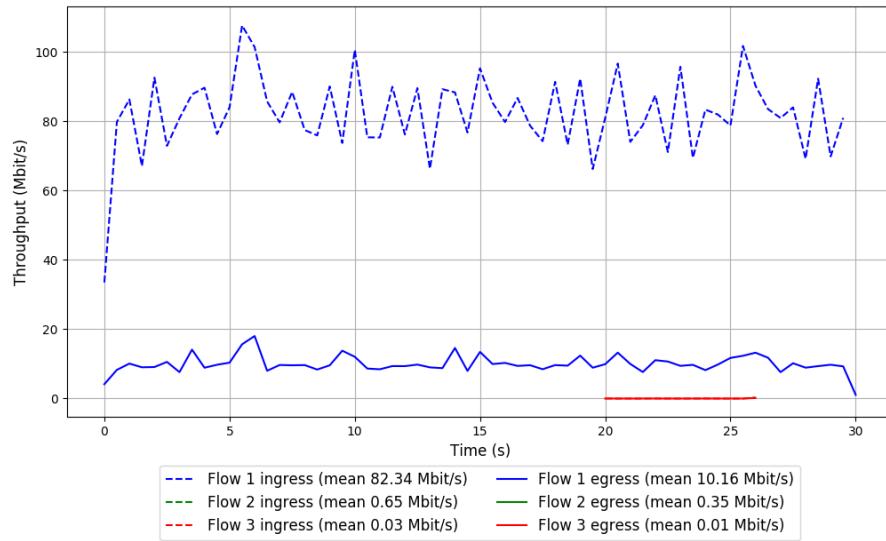
Run 8: Statistics of Copa

Start at: 2017-08-21 08:33:58

End at: 2017-08-21 08:34:28

```
# Below is generated by plot.py at 2017-08-21 09:49:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 50.995 ms
Loss rate: 87.65%
-- Flow 1:
Average throughput: 10.16 Mbit/s
95th percentile per-packet one-way delay: 50.946 ms
Loss rate: 87.66%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 53.753 ms
Loss rate: 46.17%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 53.860 ms
Loss rate: 55.41%
```

Run 8: Report of Copa — Data Link



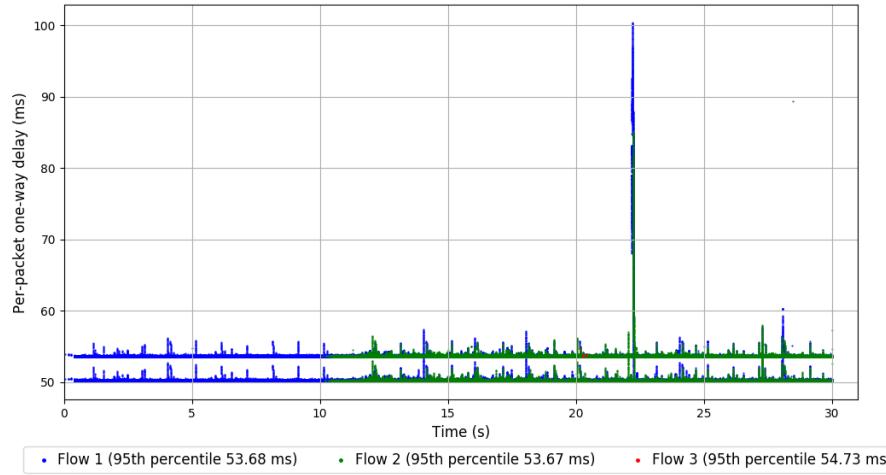
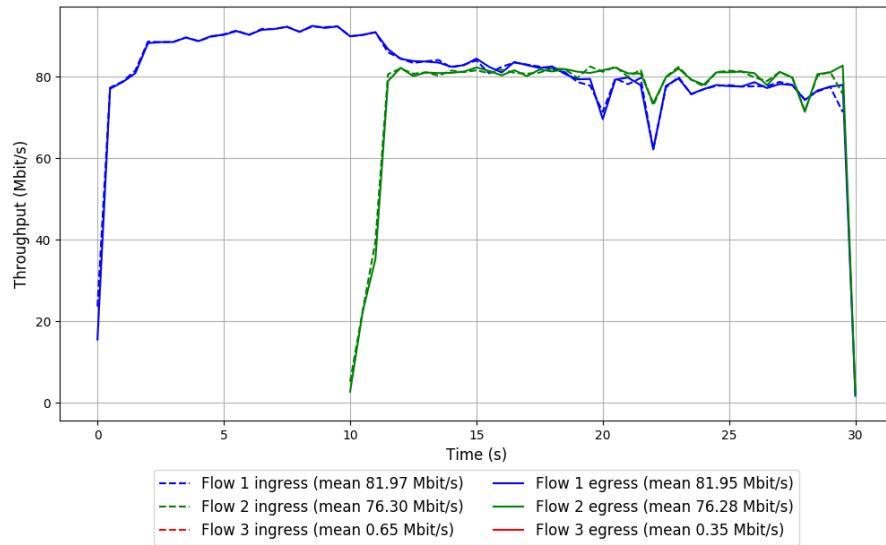
Run 9: Statistics of Copa

Start at: 2017-08-21 08:44:47

End at: 2017-08-21 08:45:18

```
# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 132.65 Mbit/s
95th percentile per-packet one-way delay: 53.676 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 81.95 Mbit/s
95th percentile per-packet one-way delay: 53.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.28 Mbit/s
95th percentile per-packet one-way delay: 53.667 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 54.727 ms
Loss rate: 46.17%
```

Run 9: Report of Copa — Data Link



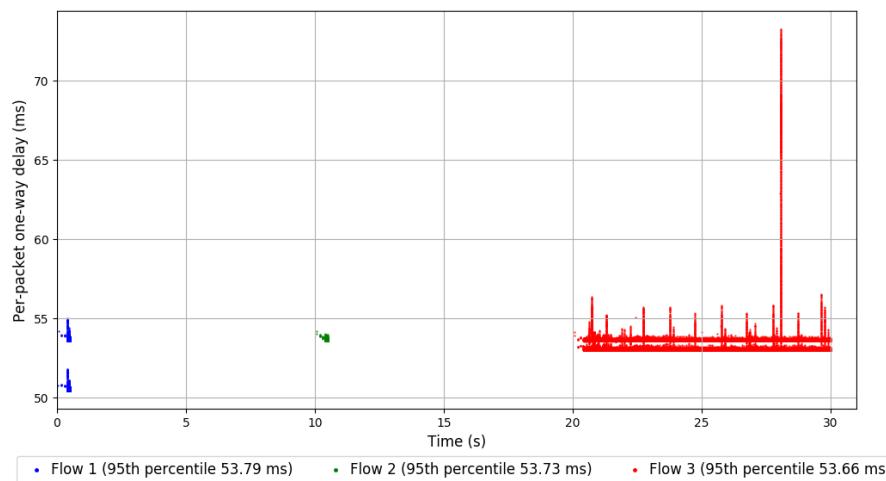
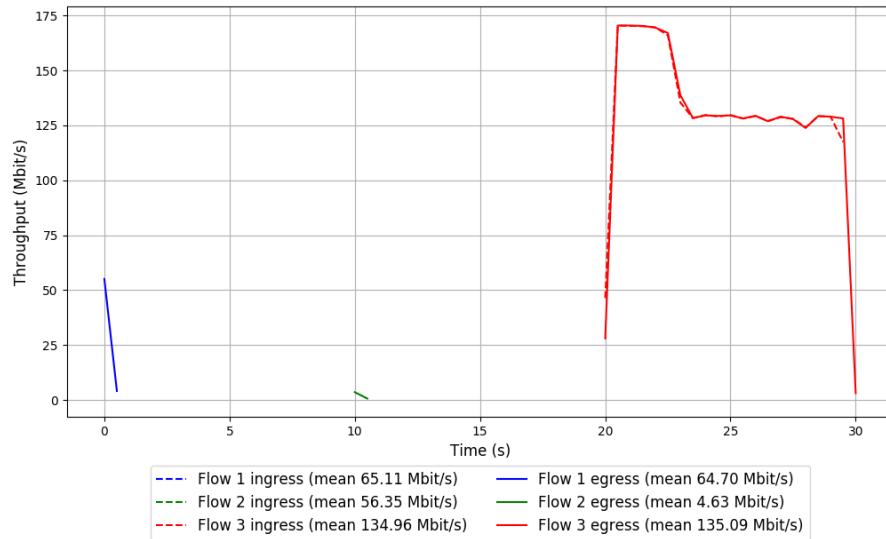
Run 10: Statistics of Copa

Start at: 2017-08-21 08:55:34

End at: 2017-08-21 08:56:04

```
# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 45.87 Mbit/s
95th percentile per-packet one-way delay: 53.666 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 64.70 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.63 Mbit/s
95th percentile per-packet one-way delay: 53.731 ms
Loss rate: 91.78%
-- Flow 3:
Average throughput: 135.09 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 0.00%
```

Run 10: Report of Copa — Data Link

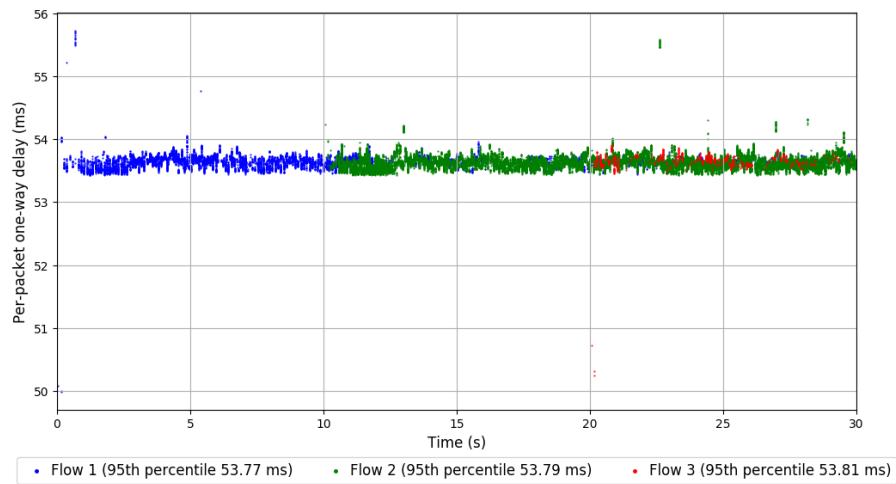
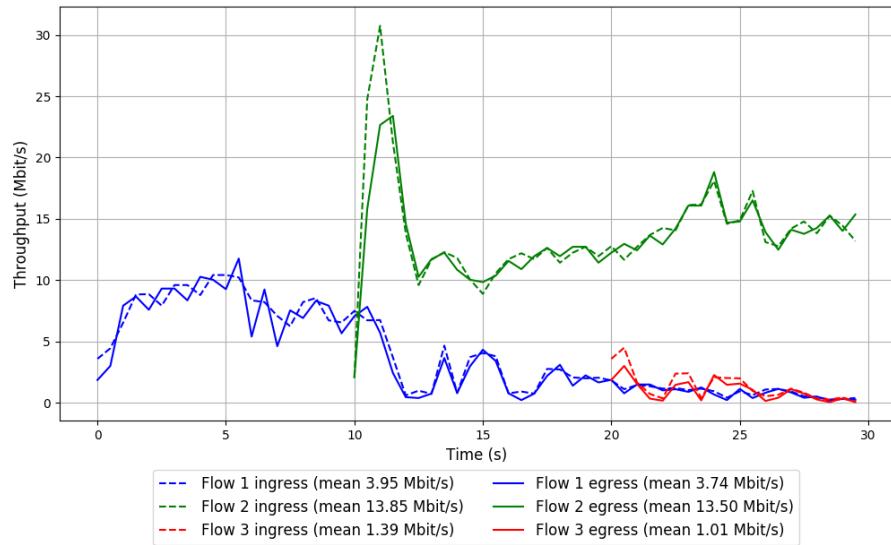


```
Run 1: Statistics of TCP Cubic

Start at: 2017-08-21 07:12:50
End at: 2017-08-21 07:13:20

# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 4.30%
-- Flow 1:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 53.773 ms
Loss rate: 5.80%
-- Flow 2:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 2.49%
-- Flow 3:
Average throughput: 1.01 Mbit/s
95th percentile per-packet one-way delay: 53.815 ms
Loss rate: 27.88%
```

Run 1: Report of TCP Cubic — Data Link



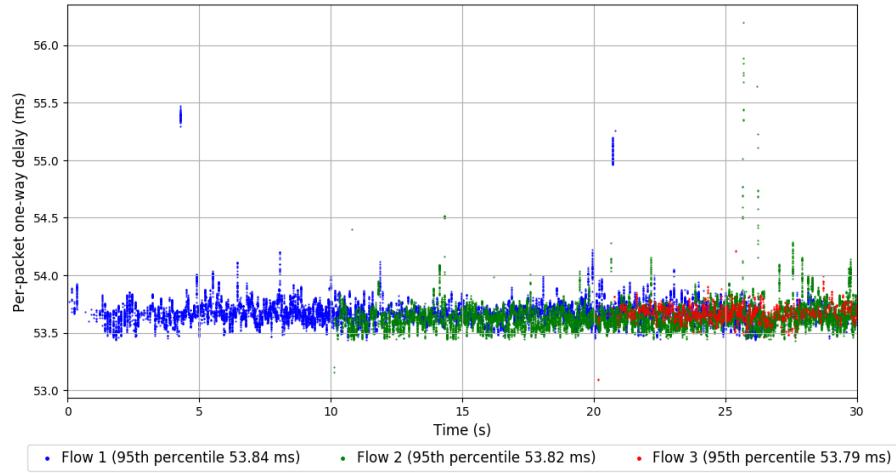
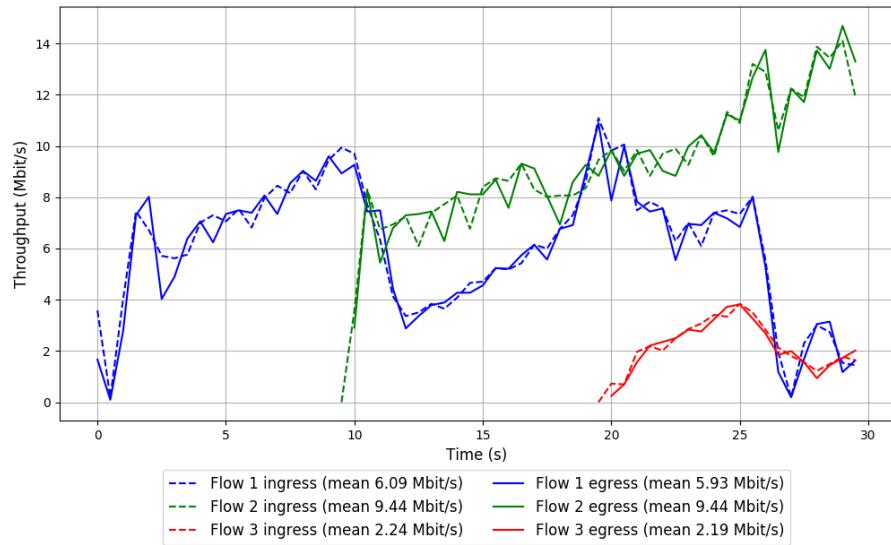
Run 2: Statistics of TCP Cubic

Start at: 2017-08-21 07:23:30

End at: 2017-08-21 07:24:00

```
# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.94 Mbit/s
95th percentile per-packet one-way delay: 53.830 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 5.93 Mbit/s
95th percentile per-packet one-way delay: 53.842 ms
Loss rate: 2.69%
-- Flow 2:
Average throughput: 9.44 Mbit/s
95th percentile per-packet one-way delay: 53.820 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 53.790 ms
Loss rate: 2.59%
```

Run 2: Report of TCP Cubic — Data Link



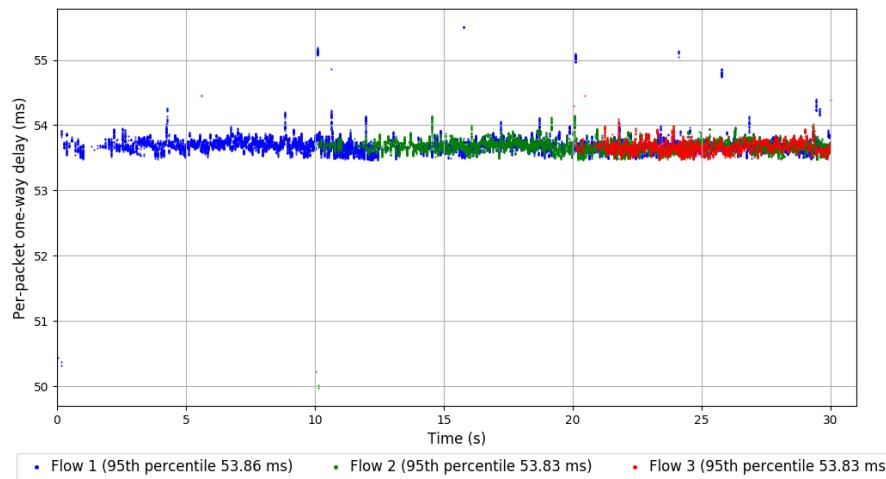
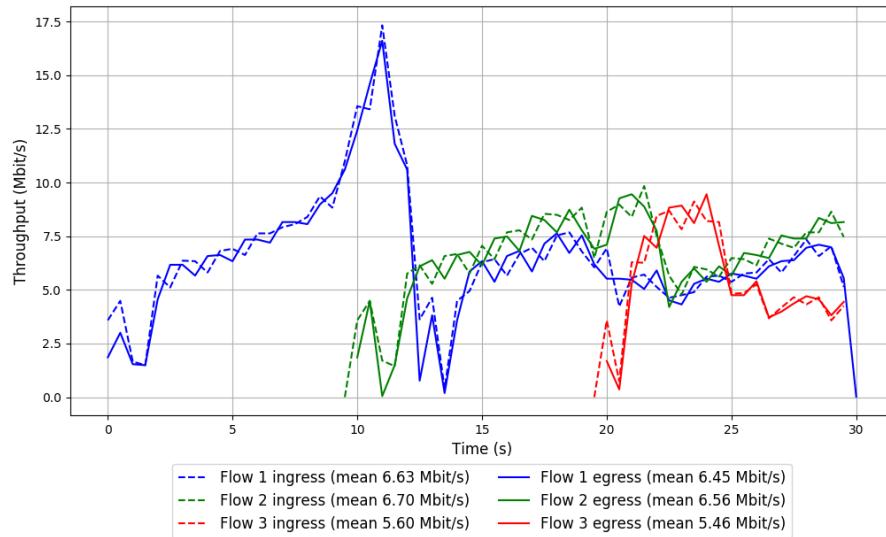
Run 3: Statistics of TCP Cubic

Start at: 2017-08-21 07:34:19

End at: 2017-08-21 07:34:49

```
# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.63 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 2.56%
-- Flow 1:
Average throughput: 6.45 Mbit/s
95th percentile per-packet one-way delay: 53.859 ms
Loss rate: 2.70%
-- Flow 2:
Average throughput: 6.56 Mbit/s
95th percentile per-packet one-way delay: 53.831 ms
Loss rate: 2.36%
-- Flow 3:
Average throughput: 5.46 Mbit/s
95th percentile per-packet one-way delay: 53.828 ms
Loss rate: 2.58%
```

Run 3: Report of TCP Cubic — Data Link



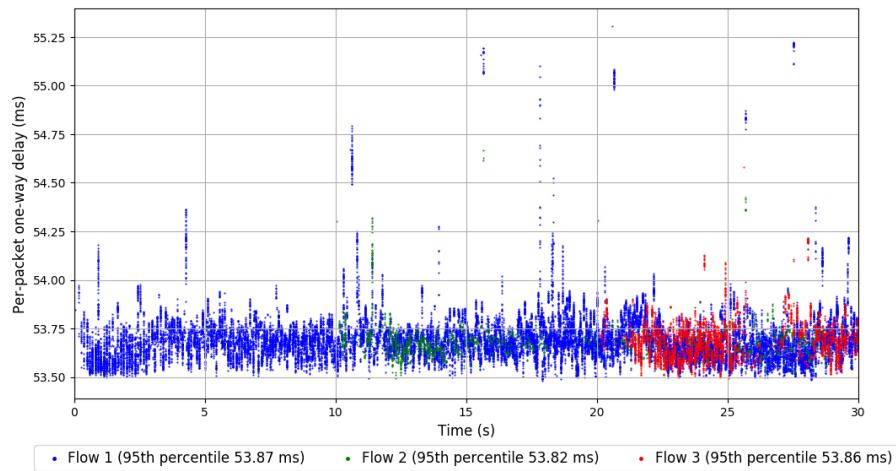
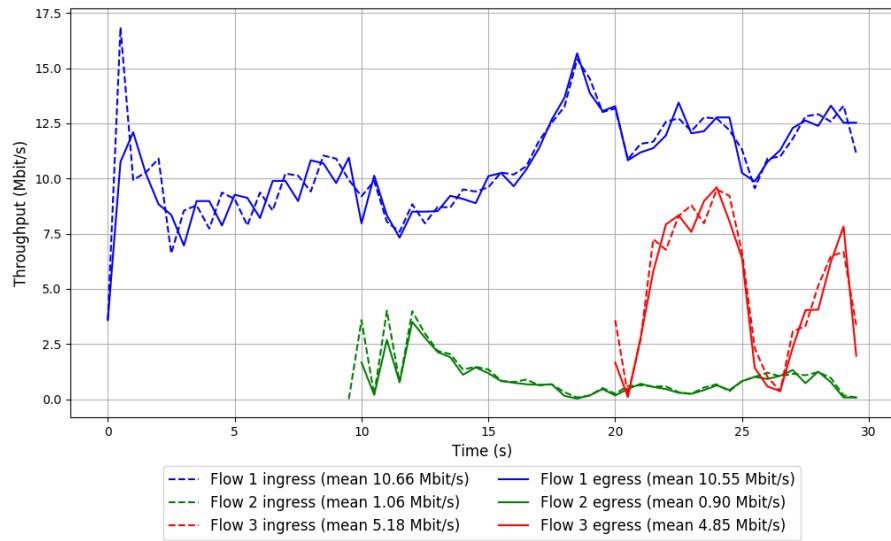
```
Run 4: Statistics of TCP Cubic
```

```
Start at: 2017-08-21 07:45:27
```

```
End at: 2017-08-21 07:45:57
```

```
# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.75 Mbit/s
95th percentile per-packet one-way delay: 53.863 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 10.55 Mbit/s
95th percentile per-packet one-way delay: 53.865 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 0.90 Mbit/s
95th percentile per-packet one-way delay: 53.823 ms
Loss rate: 14.68%
-- Flow 3:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 53.857 ms
Loss rate: 6.46%
```

Run 4: Report of TCP Cubic — Data Link



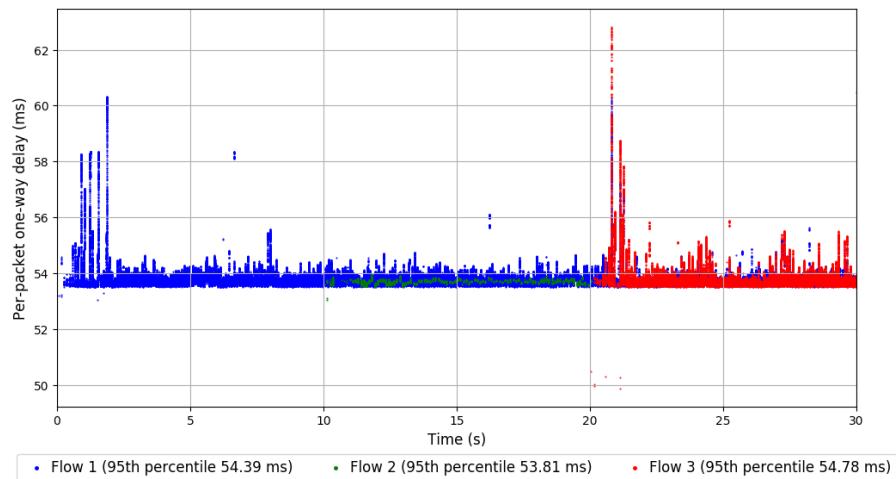
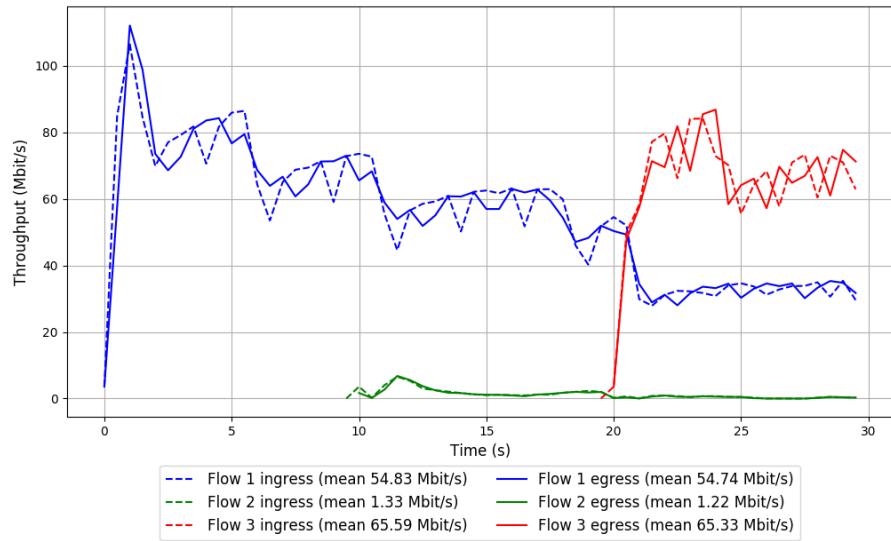
Run 5: Statistics of TCP Cubic

Start at: 2017-08-21 07:56:06

End at: 2017-08-21 07:56:36

```
# Below is generated by plot.py at 2017-08-21 09:50:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.21 Mbit/s
95th percentile per-packet one-way delay: 54.490 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 54.74 Mbit/s
95th percentile per-packet one-way delay: 54.393 ms
Loss rate: 0.16%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 7.93%
-- Flow 3:
Average throughput: 65.33 Mbit/s
95th percentile per-packet one-way delay: 54.779 ms
Loss rate: 0.33%
```

Run 5: Report of TCP Cubic — Data Link

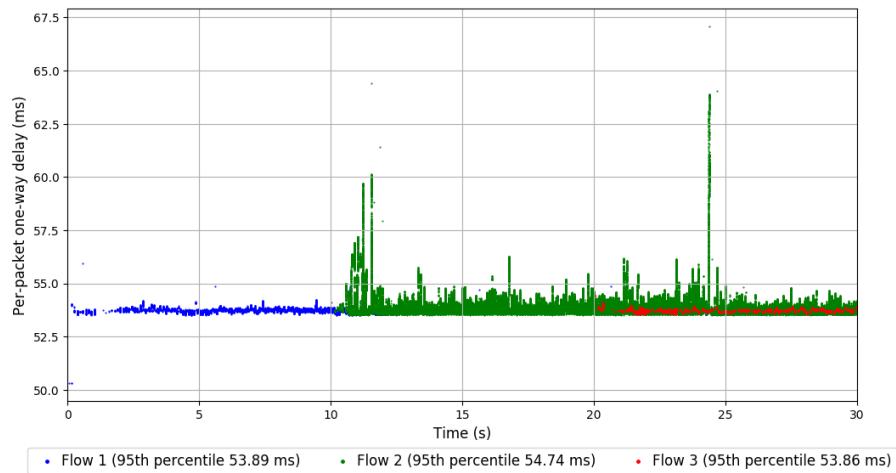
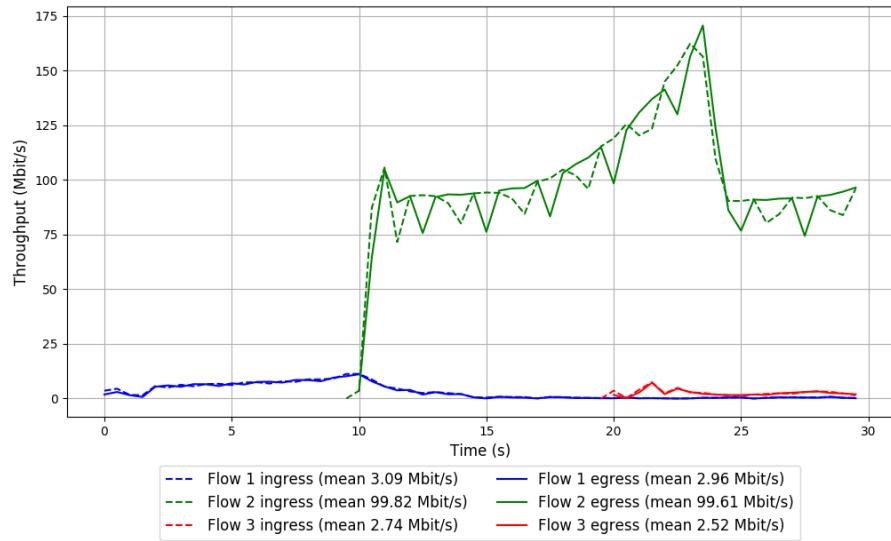


```
Run 6: Statistics of TCP Cubic

Start at: 2017-08-21 08:06:56
End at: 2017-08-21 08:07:26

# Below is generated by plot.py at 2017-08-21 09:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.11 Mbit/s
95th percentile per-packet one-way delay: 54.705 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 53.891 ms
Loss rate: 5.40%
-- Flow 2:
Average throughput: 99.61 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 0.24%
-- Flow 3:
Average throughput: 2.52 Mbit/s
95th percentile per-packet one-way delay: 53.858 ms
Loss rate: 7.88%
```

Run 6: Report of TCP Cubic — Data Link



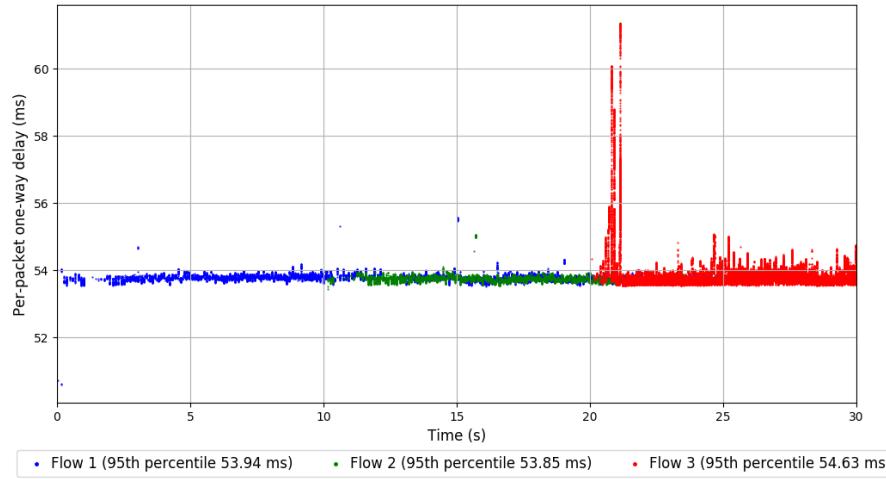
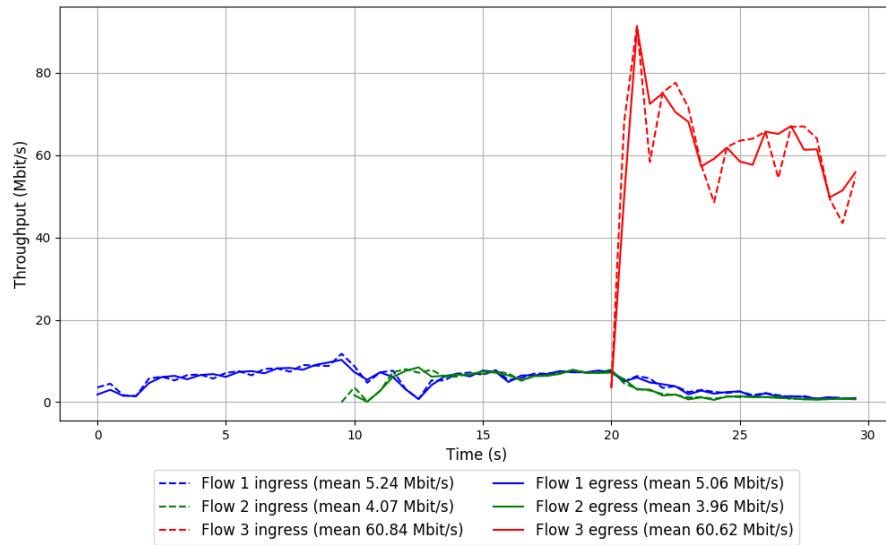
Run 7: Statistics of TCP Cubic

Start at: 2017-08-21 08:18:04

End at: 2017-08-21 08:18:34

```
# Below is generated by plot.py at 2017-08-21 09:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.75 Mbit/s
95th percentile per-packet one-way delay: 54.343 ms
Loss rate: 1.21%
-- Flow 1:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 53.937 ms
Loss rate: 3.42%
-- Flow 2:
Average throughput: 3.96 Mbit/s
95th percentile per-packet one-way delay: 53.852 ms
Loss rate: 3.12%
-- Flow 3:
Average throughput: 60.62 Mbit/s
95th percentile per-packet one-way delay: 54.629 ms
Loss rate: 0.38%
```

Run 7: Report of TCP Cubic — Data Link



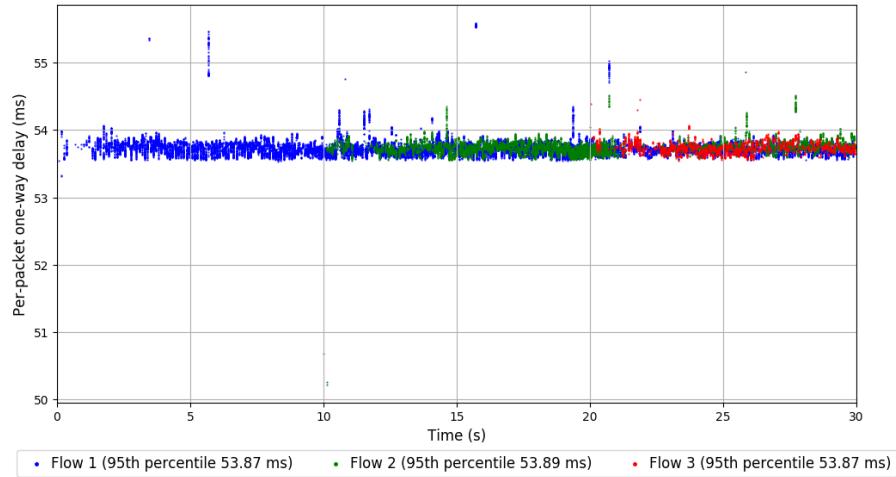
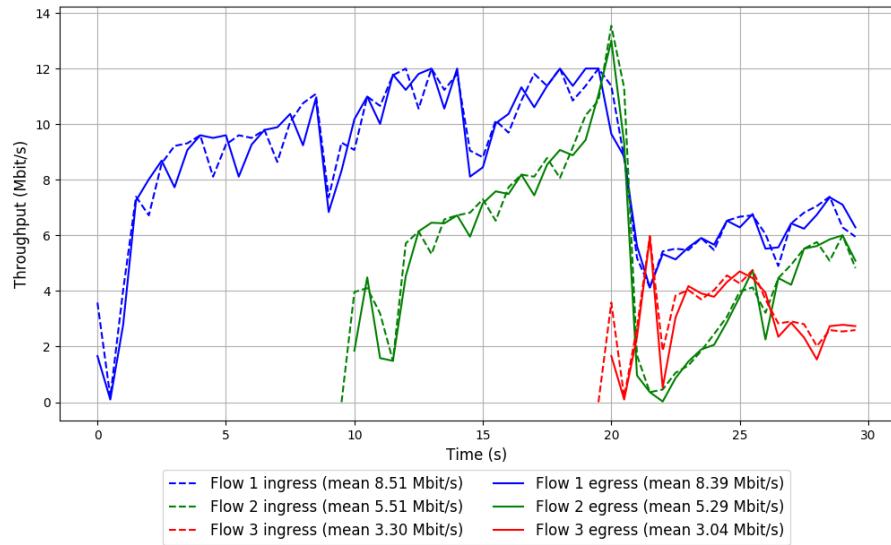
Run 8: Statistics of TCP Cubic

Start at: 2017-08-21 08:28:57

End at: 2017-08-21 08:29:27

```
# Below is generated by plot.py at 2017-08-21 09:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 53.877 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 8.39 Mbit/s
95th percentile per-packet one-way delay: 53.870 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 5.29 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 4.18%
-- Flow 3:
Average throughput: 3.04 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 7.96%
```

Run 8: Report of TCP Cubic — Data Link



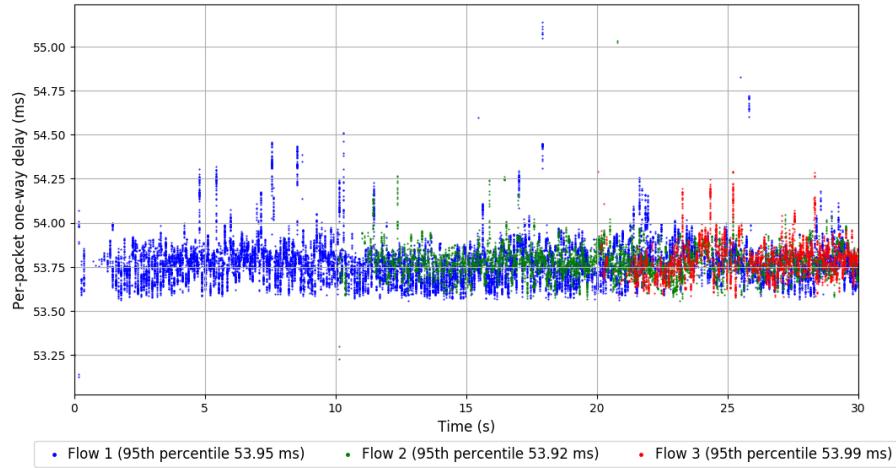
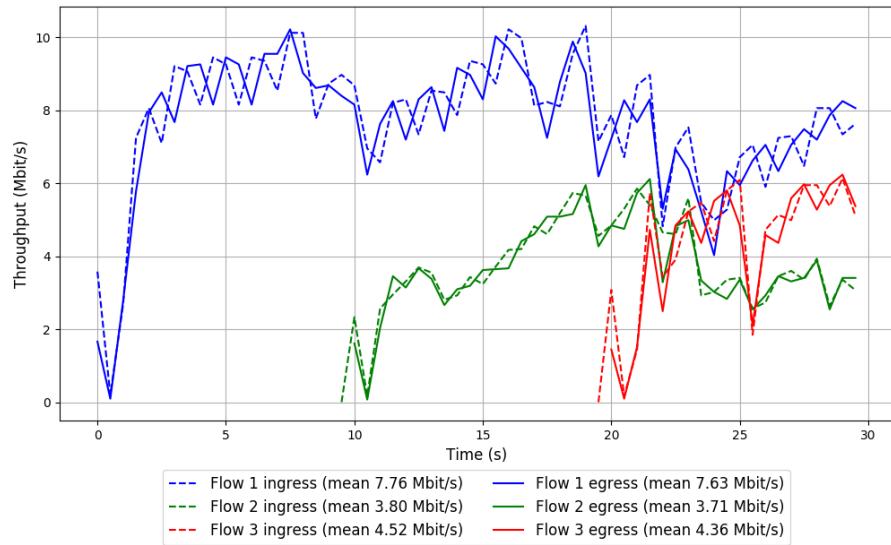
```
Run 9: Statistics of TCP Cubic
```

```
Start at: 2017-08-21 08:39:46
```

```
End at: 2017-08-21 08:40:16
```

```
# Below is generated by plot.py at 2017-08-21 09:51:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 53.949 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 7.63 Mbit/s
95th percentile per-packet one-way delay: 53.955 ms
Loss rate: 1.70%
-- Flow 2:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 53.922 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 4.36 Mbit/s
95th percentile per-packet one-way delay: 53.994 ms
Loss rate: 4.05%
```

Run 9: Report of TCP Cubic — Data Link



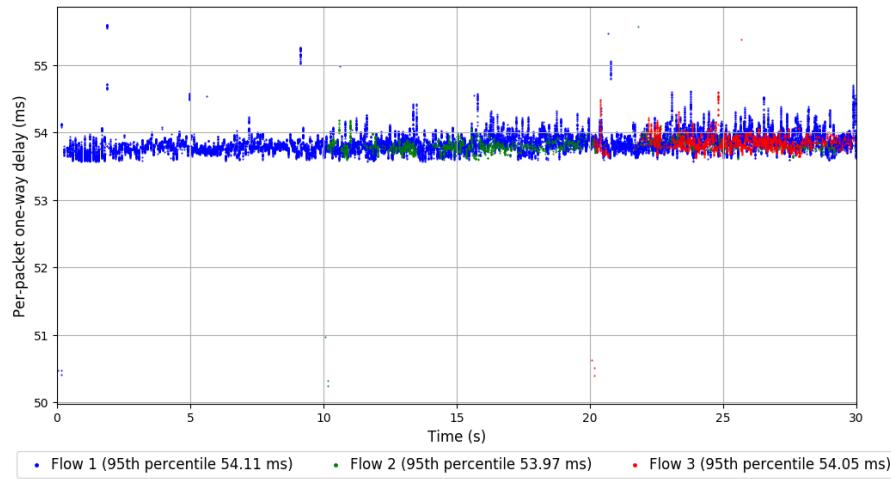
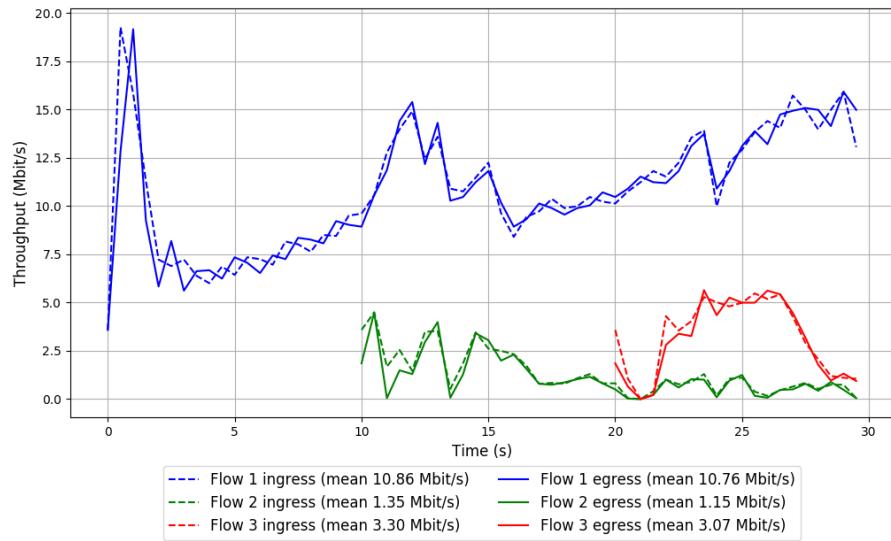
Run 10: Statistics of TCP Cubic

Start at: 2017-08-21 08:50:39

End at: 2017-08-21 08:51:09

```
# Below is generated by plot.py at 2017-08-21 09:51:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.54 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 2.52%
-- Flow 1:
Average throughput: 10.76 Mbit/s
95th percentile per-packet one-way delay: 54.107 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 53.971 ms
Loss rate: 14.57%
-- Flow 3:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 54.050 ms
Loss rate: 6.78%
```

Run 10: Report of TCP Cubic — Data Link

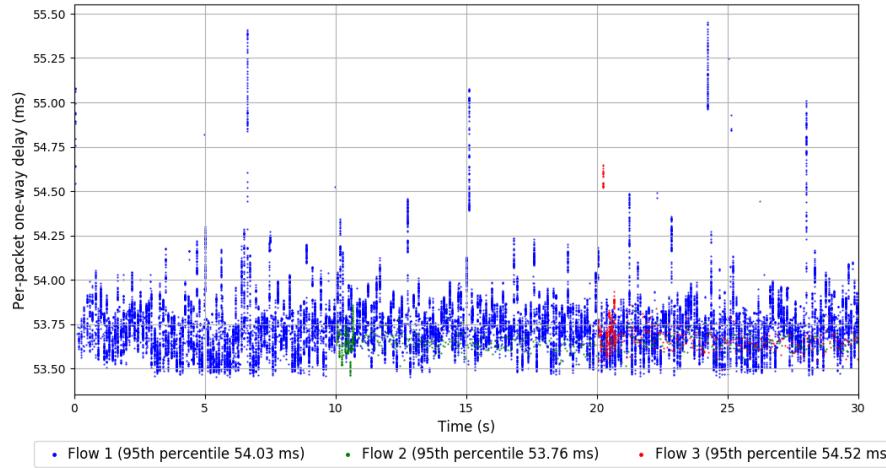
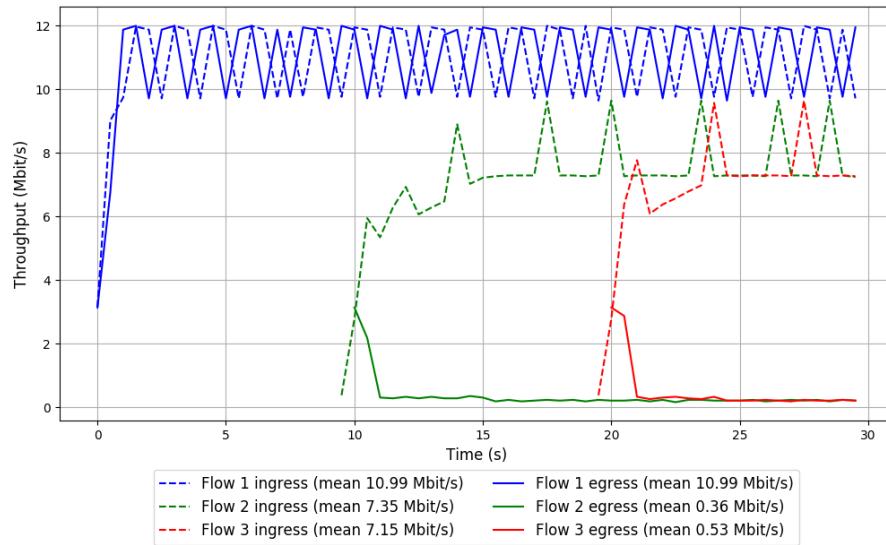


```
Run 1: Statistics of KohoCC

Start at: 2017-08-21 07:18:30
End at: 2017-08-21 07:19:00

# Below is generated by plot.py at 2017-08-21 09:51:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.41 Mbit/s
95th percentile per-packet one-way delay: 54.024 ms
Loss rate: 37.51%
-- Flow 1:
Average throughput: 10.99 Mbit/s
95th percentile per-packet one-way delay: 54.027 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 53.756 ms
Loss rate: 95.05%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 54.521 ms
Loss rate: 92.56%
```

Run 1: Report of KohoCC — Data Link



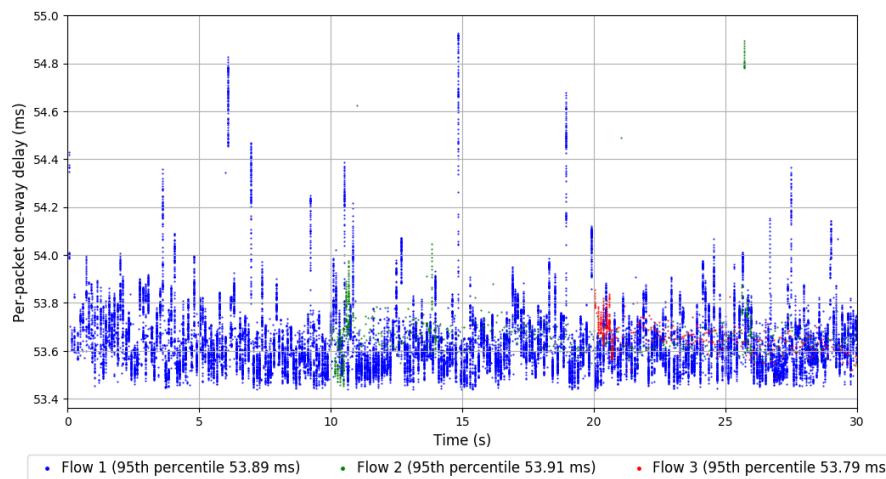
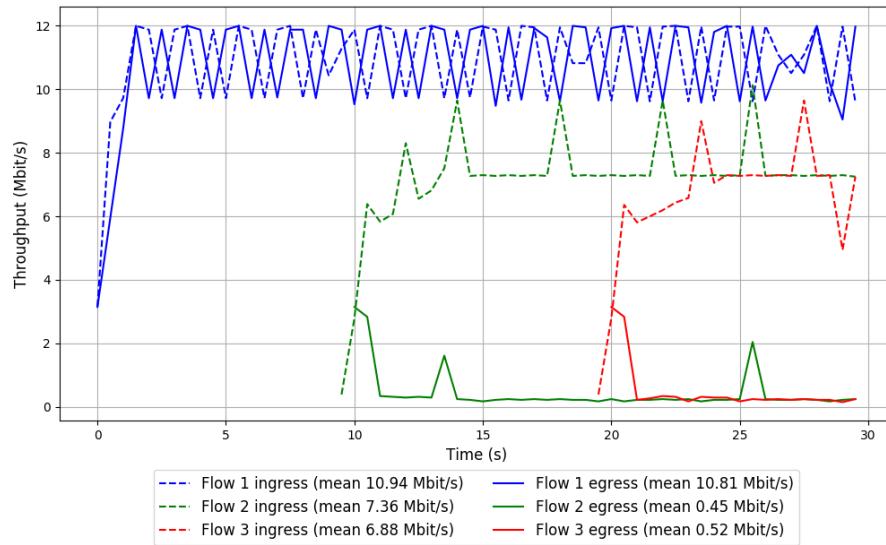
Run 2: Statistics of KohoCC

Start at: 2017-08-21 07:29:19

End at: 2017-08-21 07:29:49

```
# Below is generated by plot.py at 2017-08-21 09:51:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.28 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 37.78%
-- Flow 1:
Average throughput: 10.81 Mbit/s
95th percentile per-packet one-way delay: 53.888 ms
Loss rate: 1.18%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 53.910 ms
Loss rate: 93.91%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 53.793 ms
Loss rate: 92.47%
```

Run 2: Report of KohoCC — Data Link



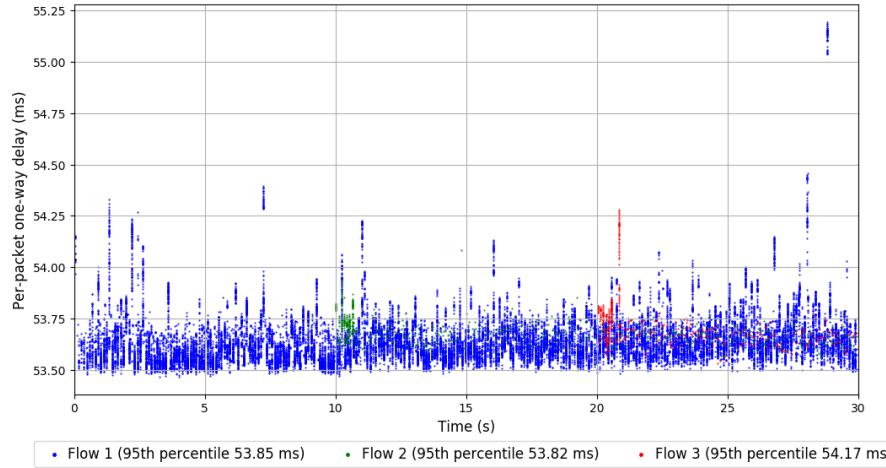
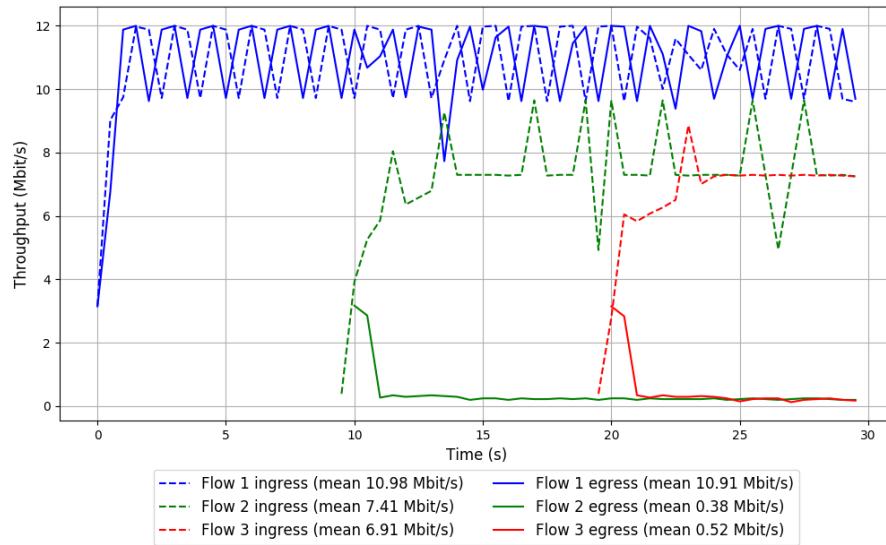
Run 3: Statistics of KohoCC

Start at: 2017-08-21 07:40:12

End at: 2017-08-21 07:40:42

```
# Below is generated by plot.py at 2017-08-21 09:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.33 Mbit/s
95th percentile per-packet one-way delay: 53.847 ms
Loss rate: 37.78%
-- Flow 1:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 53.819 ms
Loss rate: 94.93%
-- Flow 3:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 54.167 ms
Loss rate: 92.49%
```

Run 3: Report of KohoCC — Data Link



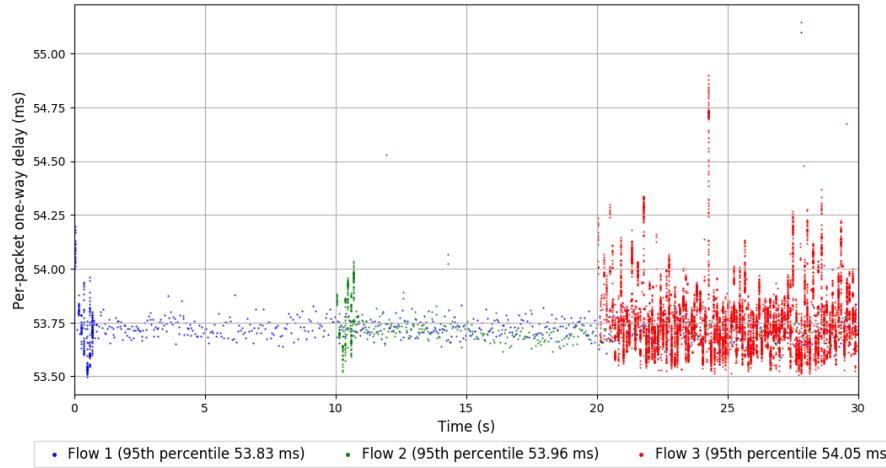
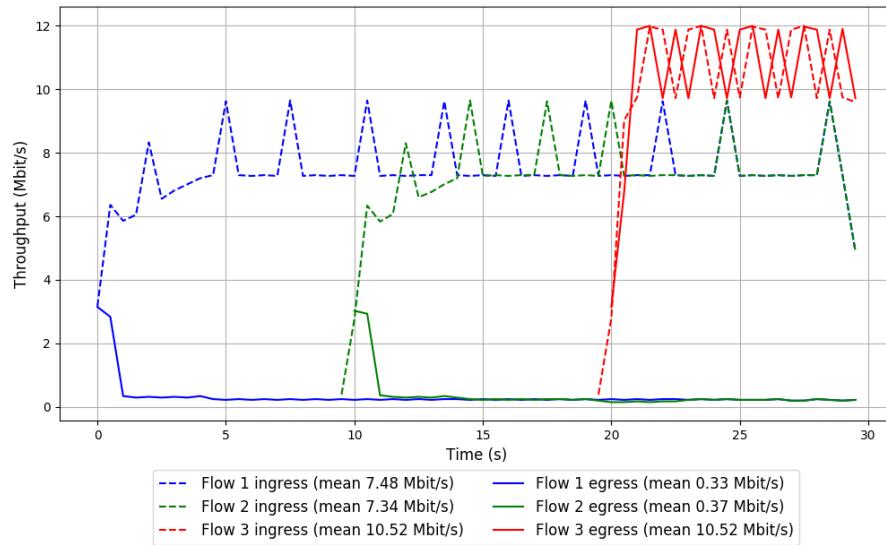
Run 4: Statistics of KohoCC

Start at: 2017-08-21 07:51:02

End at: 2017-08-21 07:51:32

```
# Below is generated by plot.py at 2017-08-21 09:51:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 54.034 ms
Loss rate: 74.36%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 53.832 ms
Loss rate: 95.61%
-- Flow 2:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 53.964 ms
Loss rate: 95.00%
-- Flow 3:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 54.052 ms
Loss rate: 0.00%
```

Run 4: Report of KohoCC — Data Link



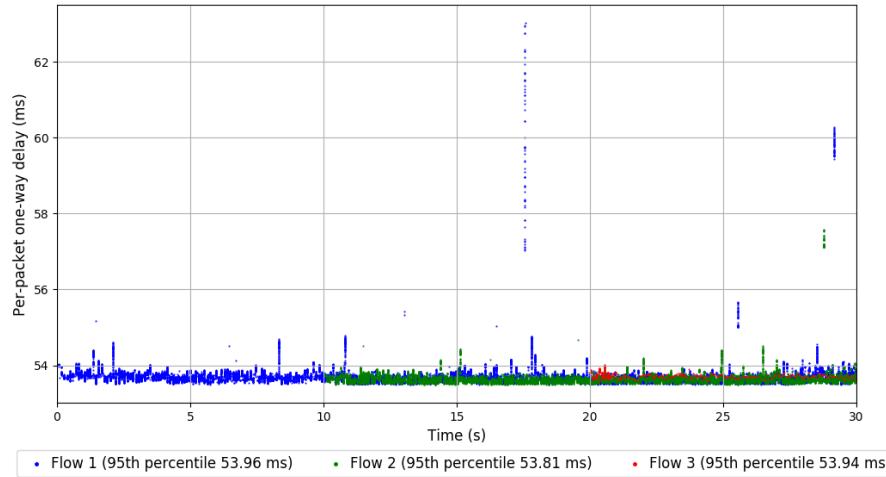
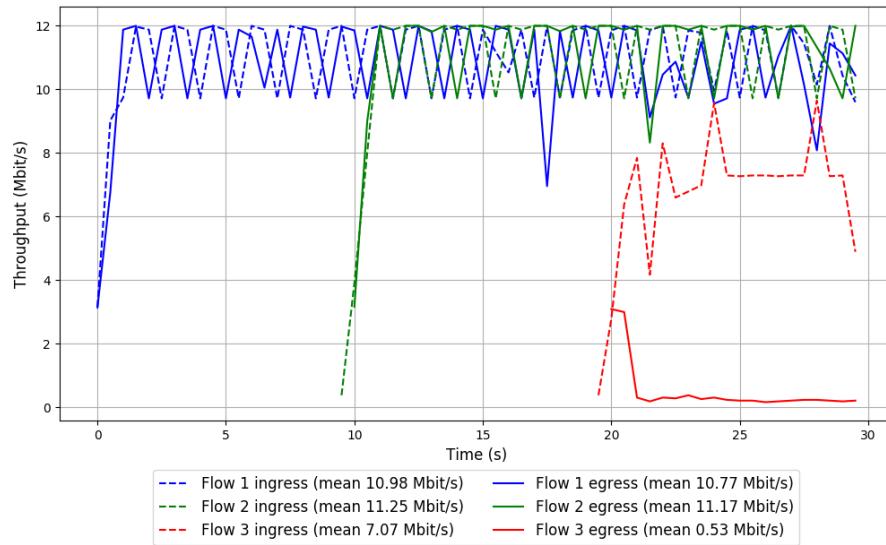
Run 5: Statistics of KohoCC

Start at: 2017-08-21 08:02:01

End at: 2017-08-21 08:02:31

```
# Below is generated by plot.py at 2017-08-21 09:51:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 18.39 Mbit/s
95th percentile per-packet one-way delay: 53.919 ms
Loss rate: 11.66%
-- Flow 1:
Average throughput: 10.77 Mbit/s
95th percentile per-packet one-way delay: 53.961 ms
Loss rate: 1.88%
-- Flow 2:
Average throughput: 11.17 Mbit/s
95th percentile per-packet one-way delay: 53.811 ms
Loss rate: 0.77%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 53.943 ms
Loss rate: 92.49%
```

Run 5: Report of KohoCC — Data Link



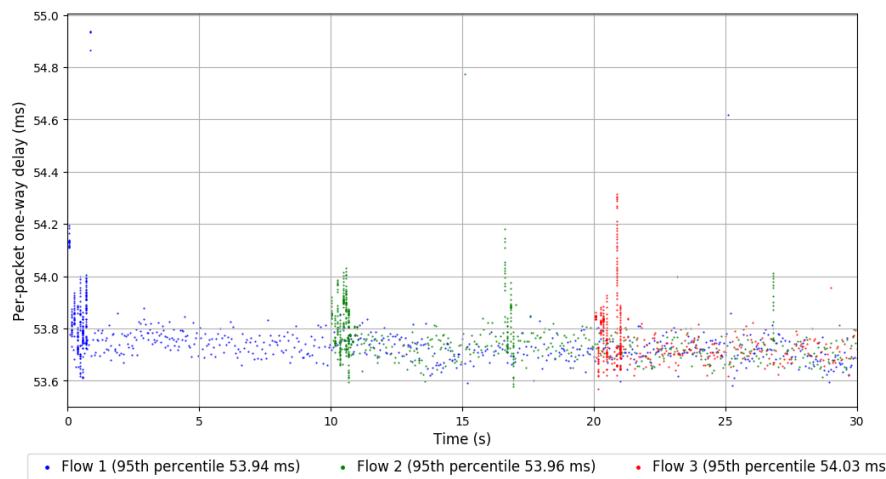
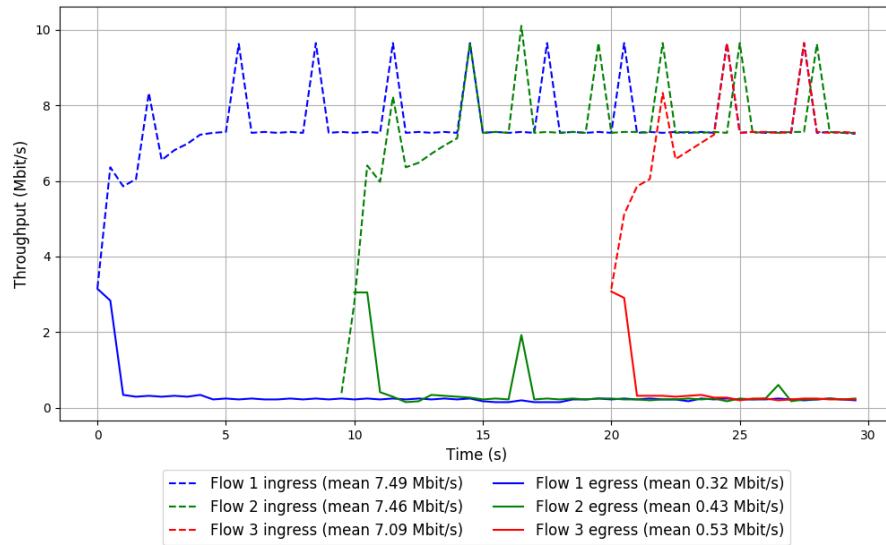
Run 6: Statistics of KohoCC

Start at: 2017-08-21 08:12:58

End at: 2017-08-21 08:13:28

```
# Below is generated by plot.py at 2017-08-21 09:51:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 53.963 ms
Loss rate: 94.74%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 53.938 ms
Loss rate: 95.75%
-- Flow 2:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.957 ms
Loss rate: 94.29%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 54.029 ms
Loss rate: 92.49%
```

Run 6: Report of KohoCC — Data Link



Run 7: Statistics of KohoCC

Start at: 2017-08-21 08:24:00

End at: 2017-08-21 08:24:30

Run 7: Report of KohoCC — Data Link

Figure is missing

Figure is missing

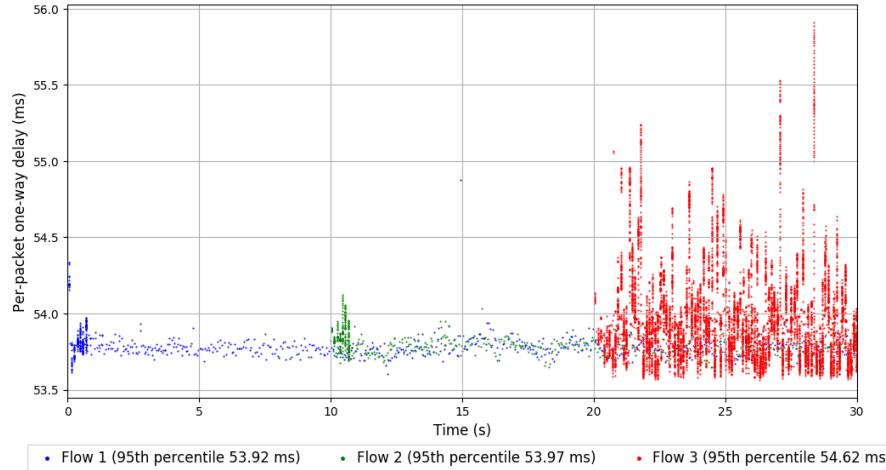
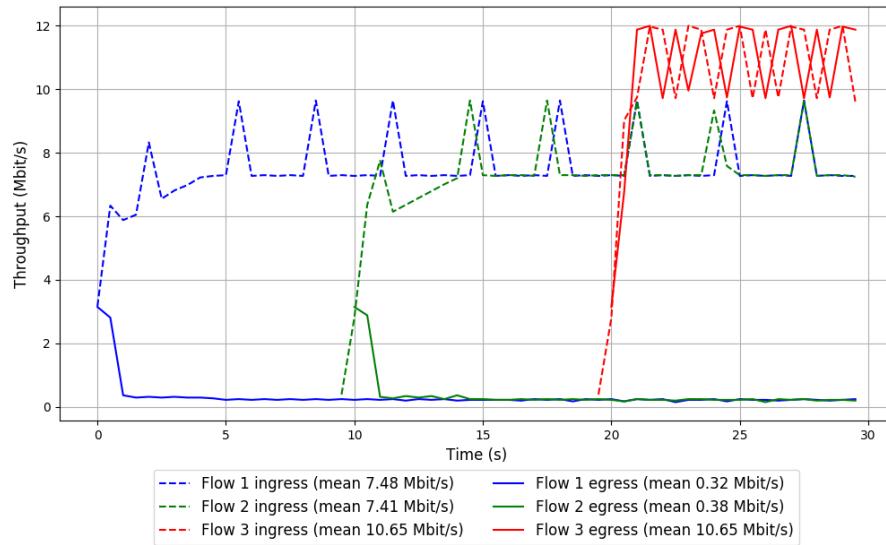
Run 8: Statistics of KohoCC

Start at: 2017-08-21 08:34:42

End at: 2017-08-21 08:35:12

```
# Below is generated by plot.py at 2017-08-21 09:51:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.10 Mbit/s
95th percentile per-packet one-way delay: 54.562 ms
Loss rate: 74.26%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 53.922 ms
Loss rate: 95.69%
-- Flow 2:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 53.970 ms
Loss rate: 94.93%
-- Flow 3:
Average throughput: 10.65 Mbit/s
95th percentile per-packet one-way delay: 54.618 ms
Loss rate: 0.00%
```

Run 8: Report of KohoCC — Data Link



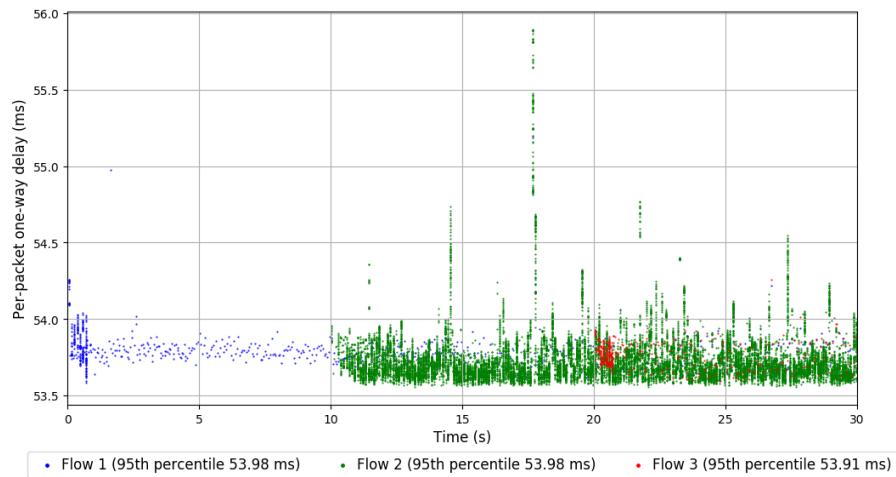
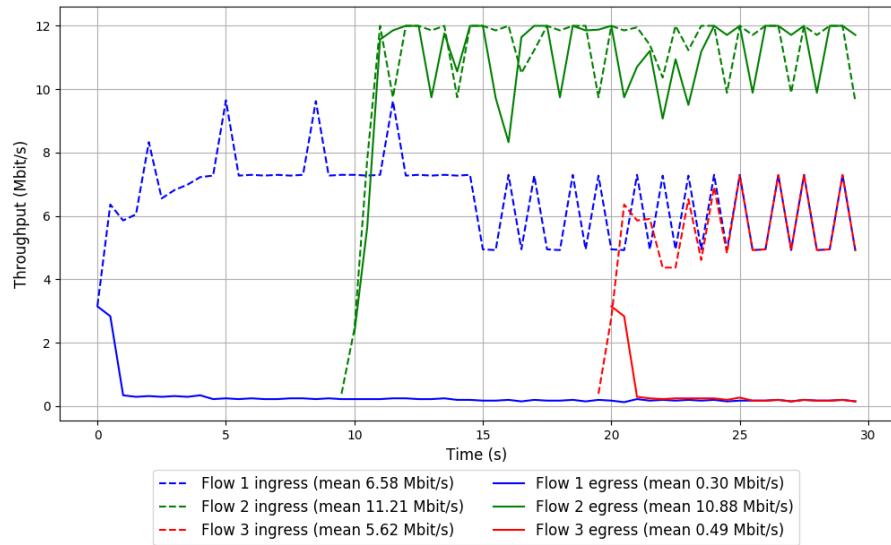
Run 9: Statistics of KohoCC

Start at: 2017-08-21 08:45:41

End at: 2017-08-21 08:46:11

```
# Below is generated by plot.py at 2017-08-21 09:51:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.72 Mbit/s
95th percentile per-packet one-way delay: 53.976 ms
Loss rate: 51.52%
-- Flow 1:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 53.980 ms
Loss rate: 95.43%
-- Flow 2:
Average throughput: 10.88 Mbit/s
95th percentile per-packet one-way delay: 53.980 ms
Loss rate: 2.88%
-- Flow 3:
Average throughput: 0.49 Mbit/s
95th percentile per-packet one-way delay: 53.907 ms
Loss rate: 91.33%
```

Run 9: Report of KohoCC — Data Link



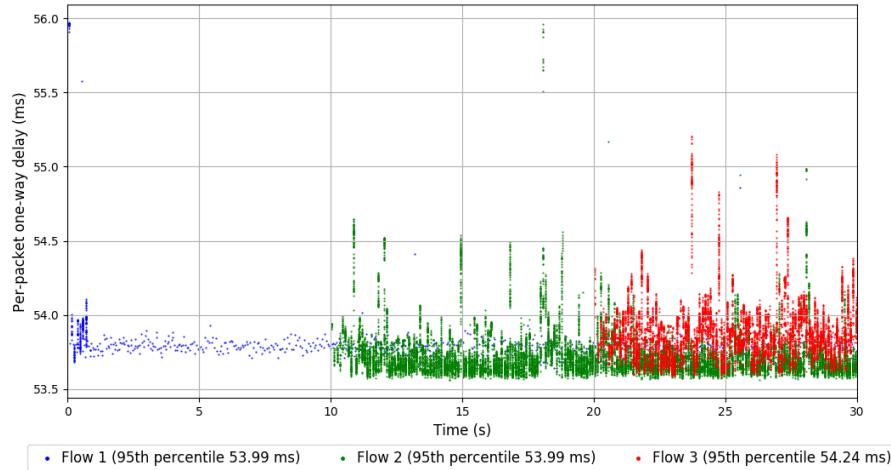
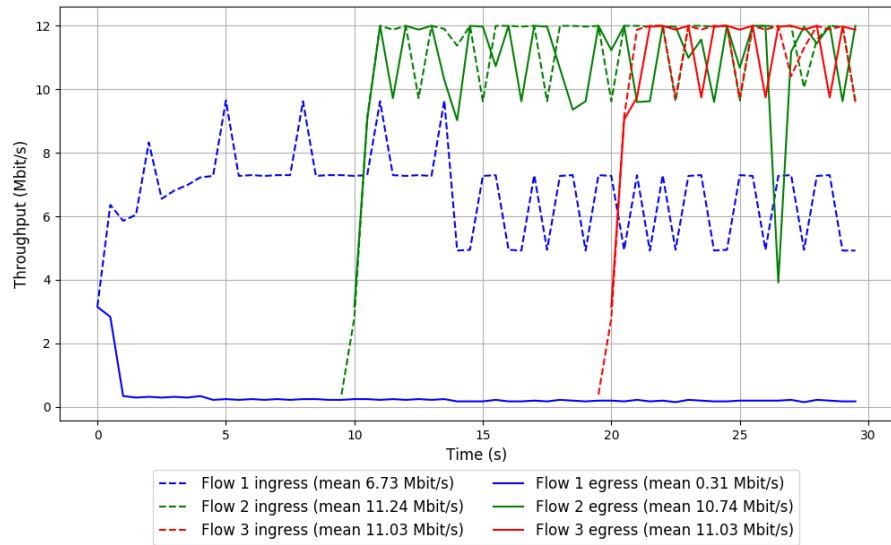
Run 10: Statistics of KohoCC

Start at: 2017-08-21 08:56:19

End at: 2017-08-21 08:56:49

```
# Below is generated by plot.py at 2017-08-21 09:51:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.12 Mbit/s
95th percentile per-packet one-way delay: 54.120 ms
Loss rate: 37.81%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 95.44%
-- Flow 2:
Average throughput: 10.74 Mbit/s
95th percentile per-packet one-way delay: 53.991 ms
Loss rate: 4.45%
-- Flow 3:
Average throughput: 11.03 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.00%
```

Run 10: Report of KohoCC — Data Link

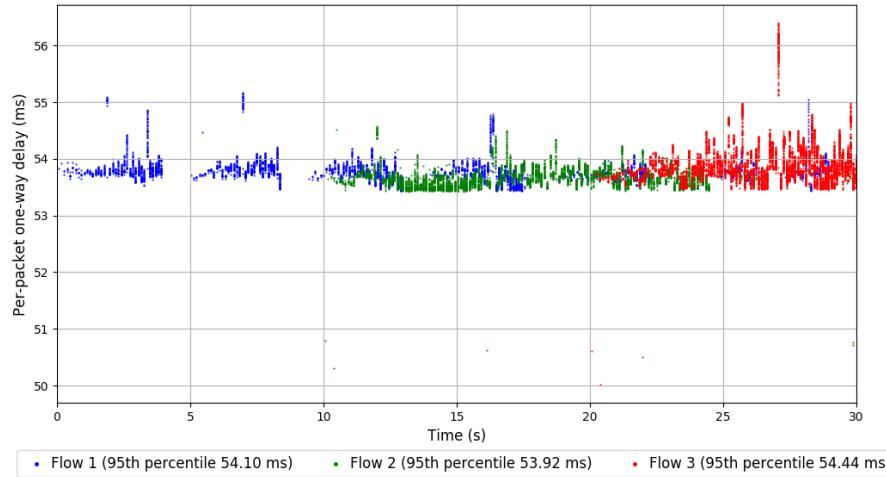
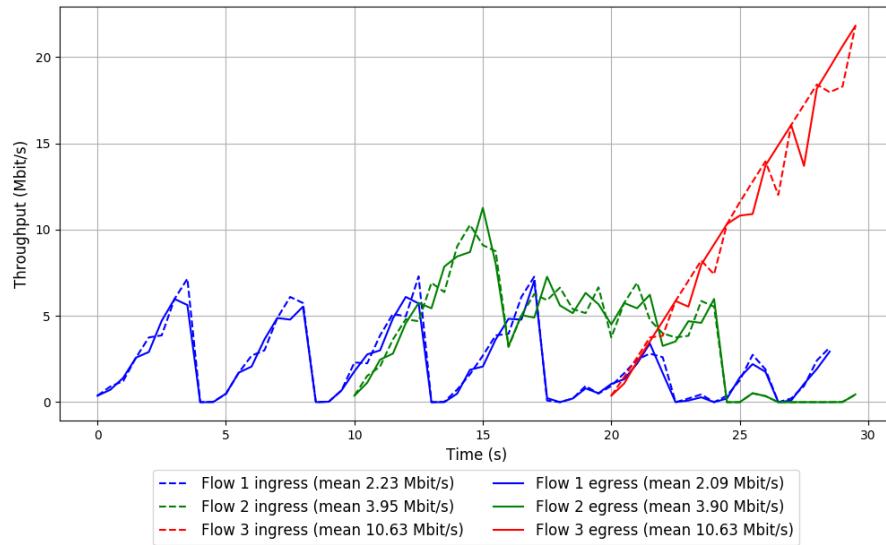


```
Run 1: Statistics of LEDBAT

Start at: 2017-08-21 07:14:10
End at: 2017-08-21 07:14:40

# Below is generated by plot.py at 2017-08-21 09:51:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 54.290 ms
Loss rate: 2.13%
-- Flow 1:
Average throughput: 2.09 Mbit/s
95th percentile per-packet one-way delay: 54.100 ms
Loss rate: 6.68%
-- Flow 2:
Average throughput: 3.90 Mbit/s
95th percentile per-packet one-way delay: 53.923 ms
Loss rate: 1.25%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 54.439 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



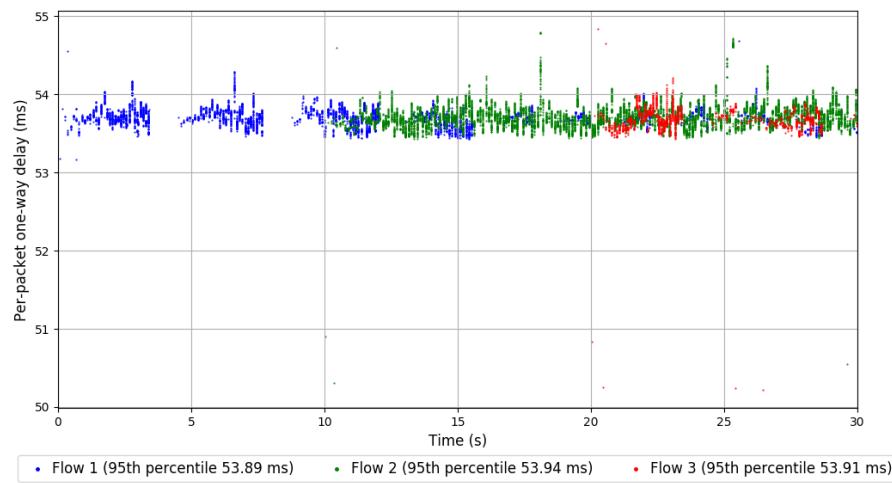
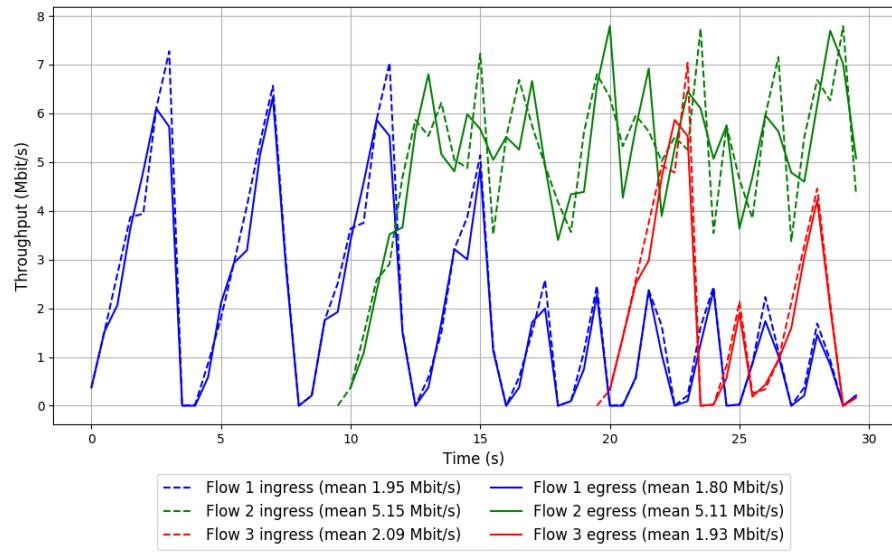
Run 2: Statistics of LEDBAT

Start at: 2017-08-21 07:24:51

End at: 2017-08-21 07:25:21

```
# Below is generated by plot.py at 2017-08-21 09:51:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.85 Mbit/s
95th percentile per-packet one-way delay: 53.924 ms
Loss rate: 3.72%
-- Flow 1:
Average throughput: 1.80 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 7.81%
-- Flow 2:
Average throughput: 5.11 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 7.36%
```

Run 2: Report of LEDBAT — Data Link



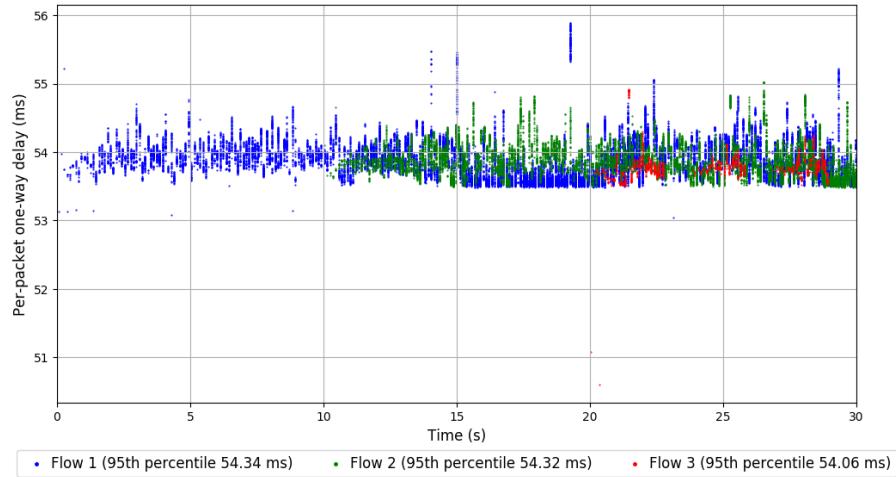
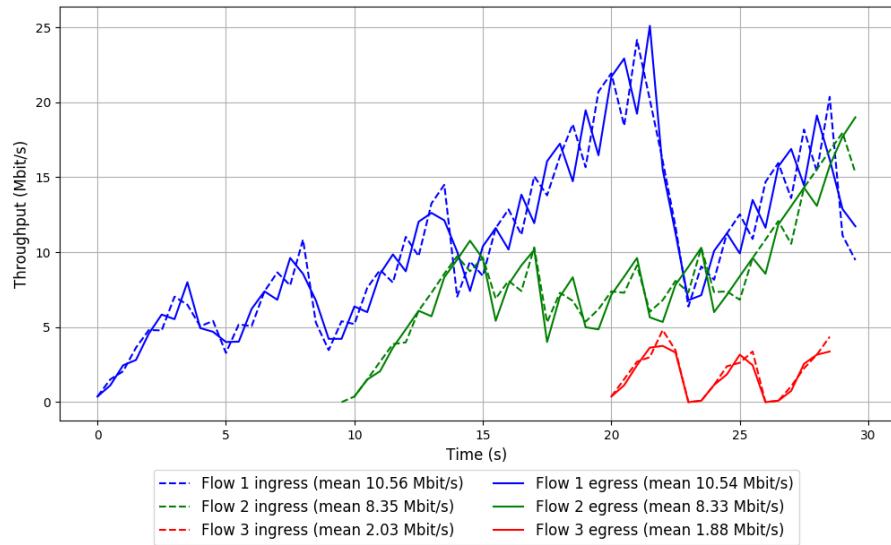
Run 3: Statistics of LEDBAT

Start at: 2017-08-21 07:35:39

End at: 2017-08-21 07:36:09

```
# Below is generated by plot.py at 2017-08-21 09:51:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.64 Mbit/s
95th percentile per-packet one-way delay: 54.329 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 10.54 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 0.15%
-- Flow 2:
Average throughput: 8.33 Mbit/s
95th percentile per-packet one-way delay: 54.318 ms
Loss rate: 0.30%
-- Flow 3:
Average throughput: 1.88 Mbit/s
95th percentile per-packet one-way delay: 54.062 ms
Loss rate: 8.50%
```

Run 3: Report of LEDBAT — Data Link



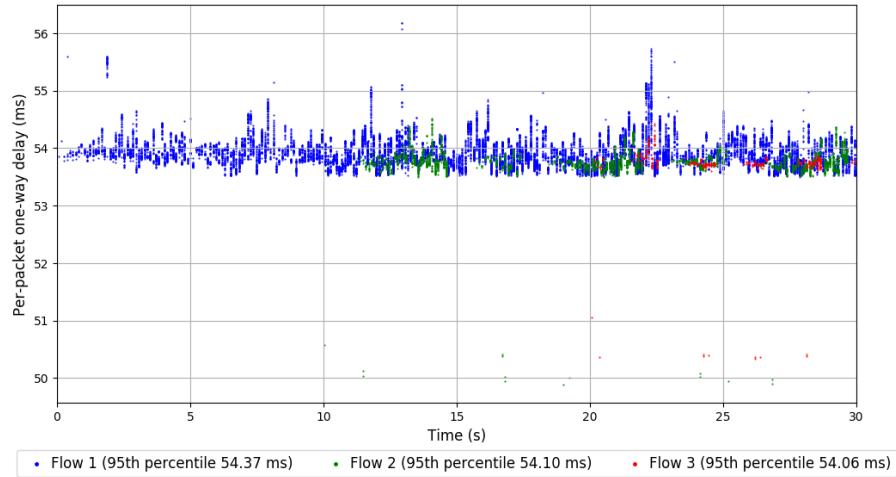
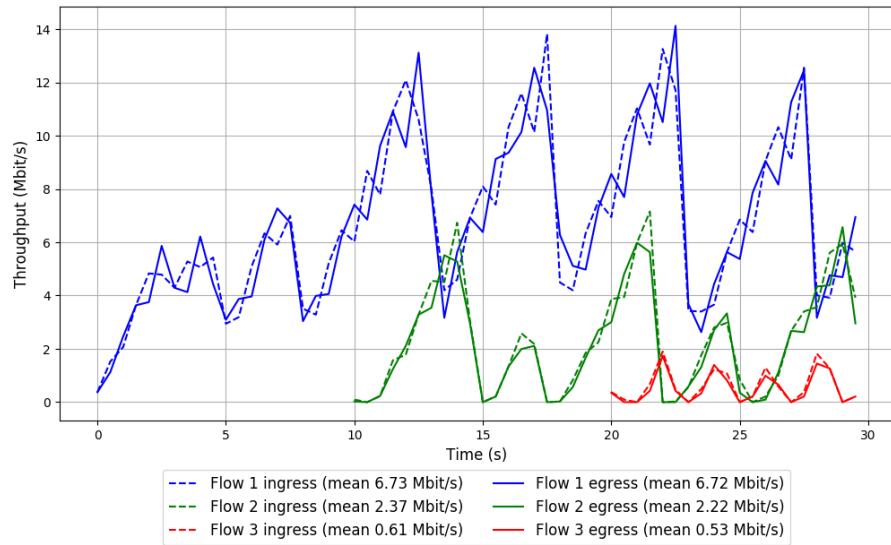
Run 4: Statistics of LEDBAT

Start at: 2017-08-21 07:46:48

End at: 2017-08-21 07:47:18

```
# Below is generated by plot.py at 2017-08-21 09:51:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.35 Mbit/s
95th percentile per-packet one-way delay: 54.340 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 6.72 Mbit/s
95th percentile per-packet one-way delay: 54.373 ms
Loss rate: 0.17%
-- Flow 2:
Average throughput: 2.22 Mbit/s
95th percentile per-packet one-way delay: 54.097 ms
Loss rate: 6.46%
-- Flow 3:
Average throughput: 0.53 Mbit/s
95th percentile per-packet one-way delay: 54.059 ms
Loss rate: 13.38%
```

Run 4: Report of LEDBAT — Data Link



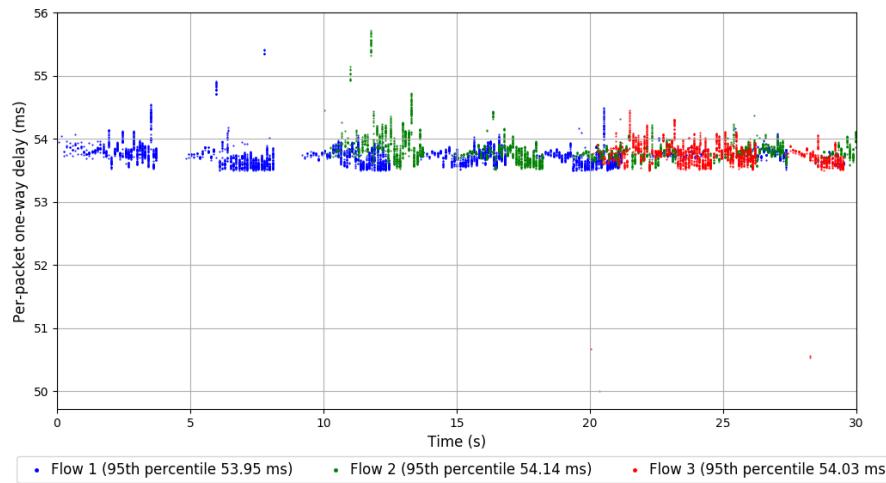
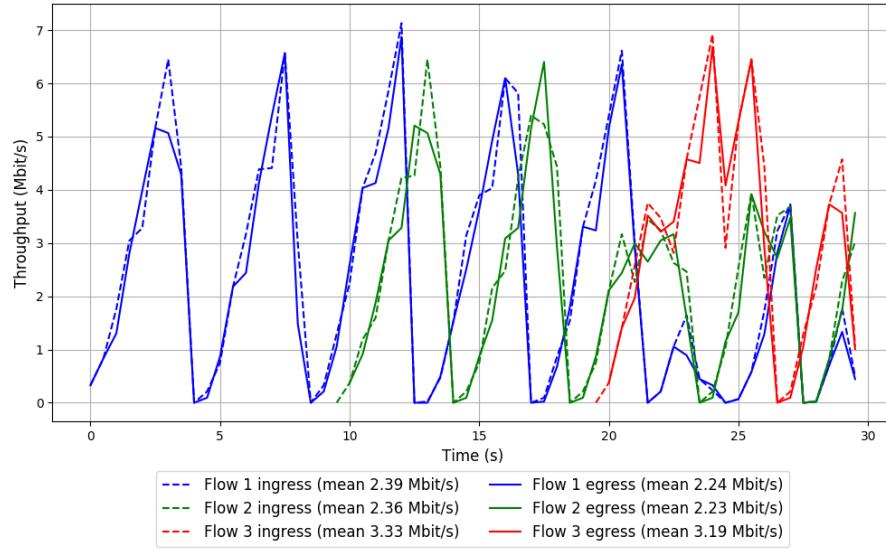
Run 5: Statistics of LEDBAT

Start at: 2017-08-21 07:57:31

End at: 2017-08-21 07:58:01

```
# Below is generated by plot.py at 2017-08-21 09:51:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.70 Mbit/s
95th percentile per-packet one-way delay: 54.055 ms
Loss rate: 6.15%
-- Flow 1:
Average throughput: 2.24 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 6.81%
-- Flow 2:
Average throughput: 2.23 Mbit/s
95th percentile per-packet one-way delay: 54.144 ms
Loss rate: 5.70%
-- Flow 3:
Average throughput: 3.19 Mbit/s
95th percentile per-packet one-way delay: 54.027 ms
Loss rate: 5.34%
```

Run 5: Report of LEDBAT — Data Link



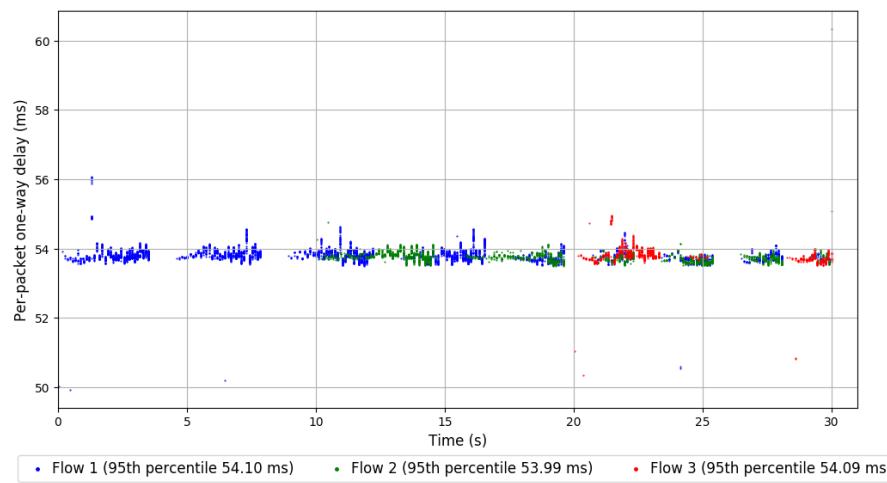
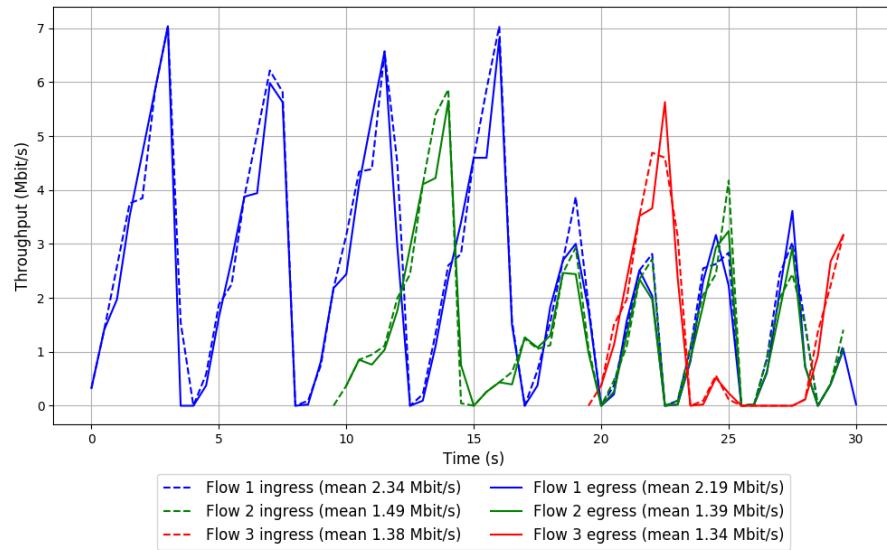
Run 6: Statistics of LEDBAT

Start at: 2017-08-21 08:08:19

End at: 2017-08-21 08:08:49

```
# Below is generated by plot.py at 2017-08-21 09:51:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.56 Mbit/s
95th percentile per-packet one-way delay: 54.065 ms
Loss rate: 6.26%
-- Flow 1:
Average throughput: 2.19 Mbit/s
95th percentile per-packet one-way delay: 54.098 ms
Loss rate: 6.68%
-- Flow 2:
Average throughput: 1.39 Mbit/s
95th percentile per-packet one-way delay: 53.991 ms
Loss rate: 6.86%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 2.82%
```

Run 6: Report of LEDBAT — Data Link



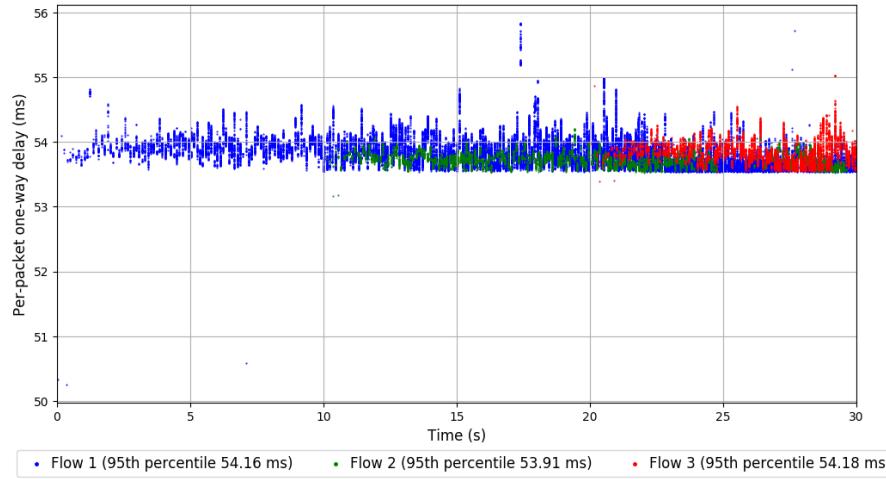
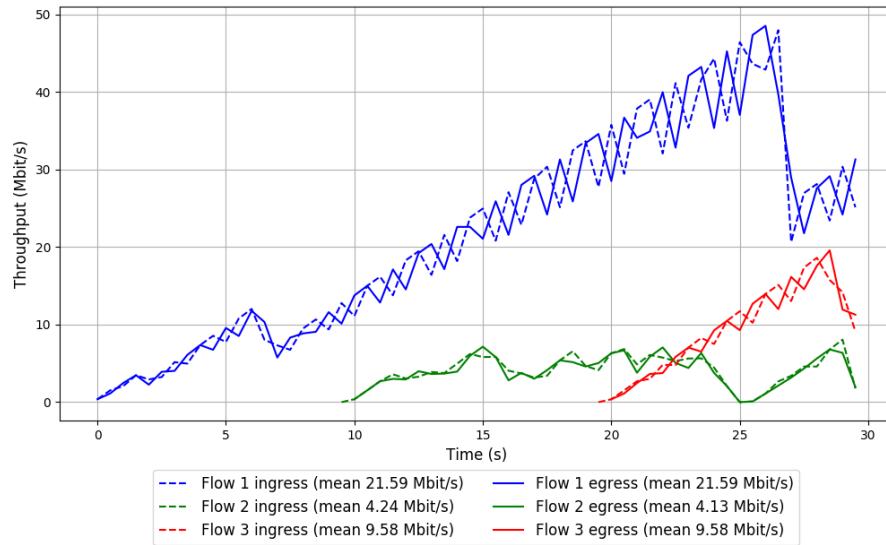
Run 7: Statistics of LEDBAT

Start at: 2017-08-21 08:19:25

End at: 2017-08-21 08:19:55

```
# Below is generated by plot.py at 2017-08-21 09:51:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.46 Mbit/s
95th percentile per-packet one-way delay: 54.144 ms
Loss rate: 0.30%
-- Flow 1:
Average throughput: 21.59 Mbit/s
95th percentile per-packet one-way delay: 54.157 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 2.75%
-- Flow 3:
Average throughput: 9.58 Mbit/s
95th percentile per-packet one-way delay: 54.178 ms
Loss rate: 0.05%
```

Run 7: Report of LEDBAT — Data Link



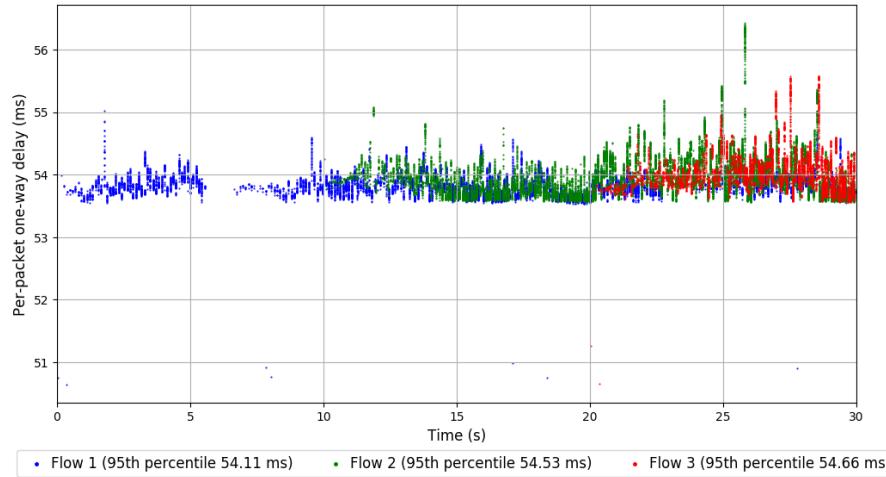
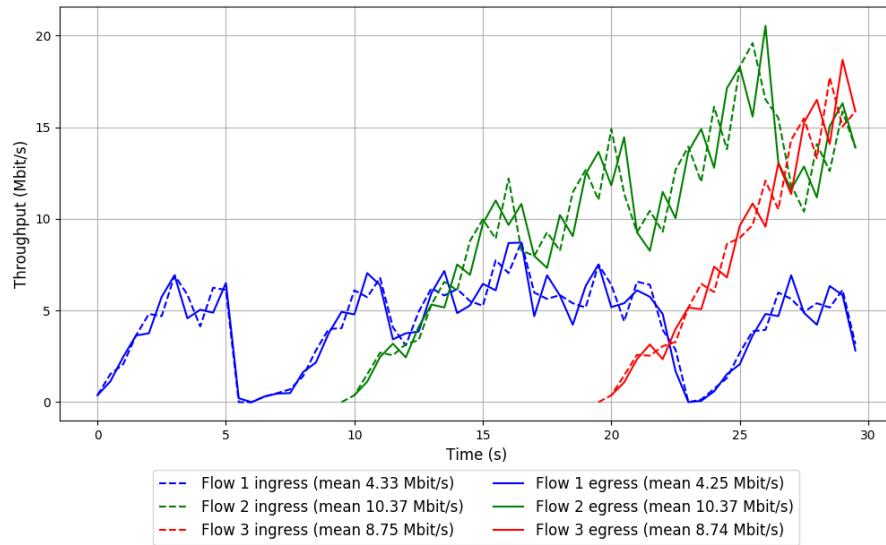
Run 8: Statistics of LEDBAT

Start at: 2017-08-21 08:30:18

End at: 2017-08-21 08:30:48

```
# Below is generated by plot.py at 2017-08-21 09:51:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.05 Mbit/s
95th percentile per-packet one-way delay: 54.492 ms
Loss rate: 0.53%
-- Flow 1:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 54.109 ms
Loss rate: 1.66%
-- Flow 2:
Average throughput: 10.37 Mbit/s
95th percentile per-packet one-way delay: 54.531 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 8.74 Mbit/s
95th percentile per-packet one-way delay: 54.662 ms
Loss rate: 0.00%
```

Run 8: Report of LEDBAT — Data Link



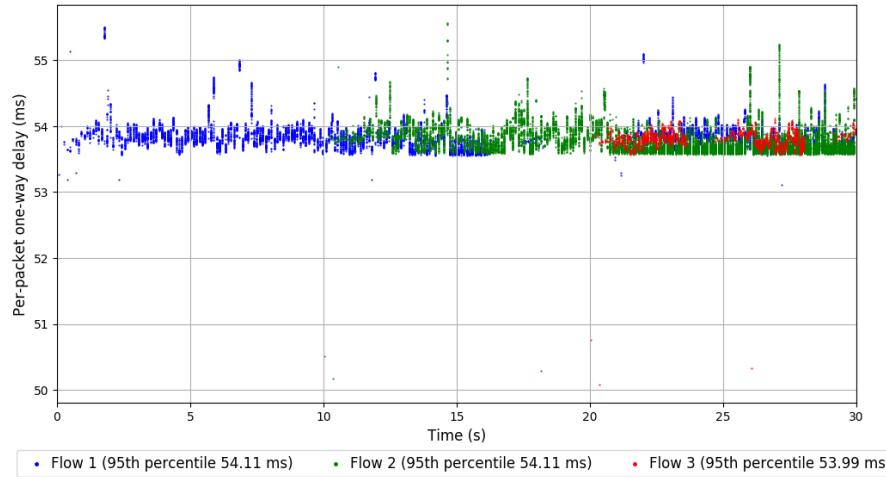
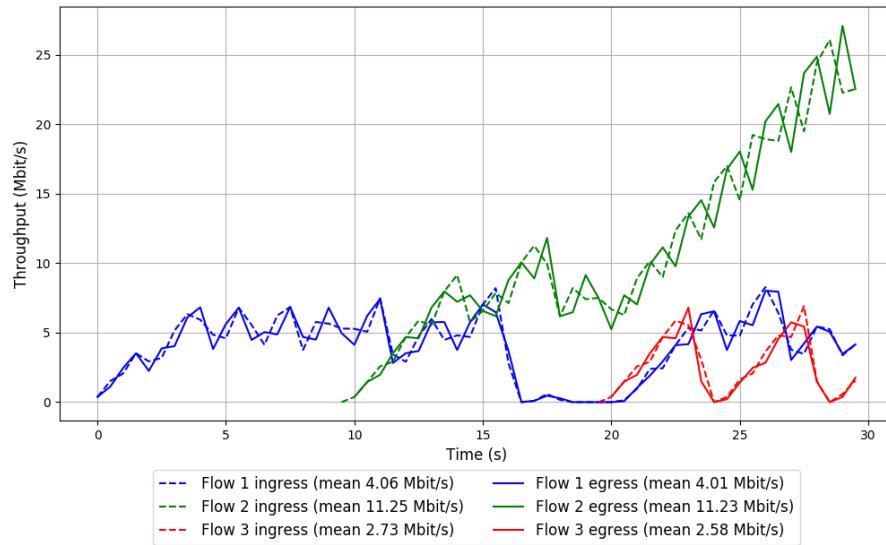
Run 9: Statistics of LEDBAT

Start at: 2017-08-21 08:41:07

End at: 2017-08-21 08:41:37

```
# Below is generated by plot.py at 2017-08-21 09:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.34 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 4.01 Mbit/s
95th percentile per-packet one-way delay: 54.112 ms
Loss rate: 1.15%
-- Flow 2:
Average throughput: 11.23 Mbit/s
95th percentile per-packet one-way delay: 54.112 ms
Loss rate: 0.22%
-- Flow 3:
Average throughput: 2.58 Mbit/s
95th percentile per-packet one-way delay: 53.990 ms
Loss rate: 5.66%
```

Run 9: Report of LEDBAT — Data Link



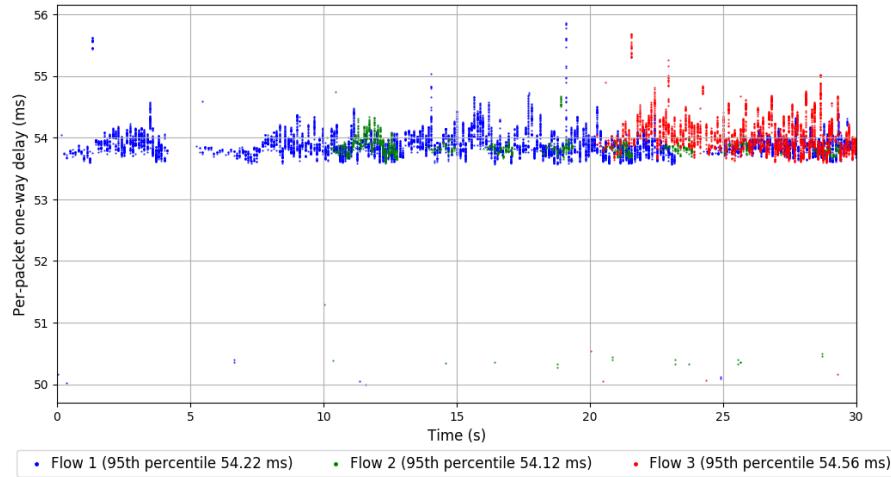
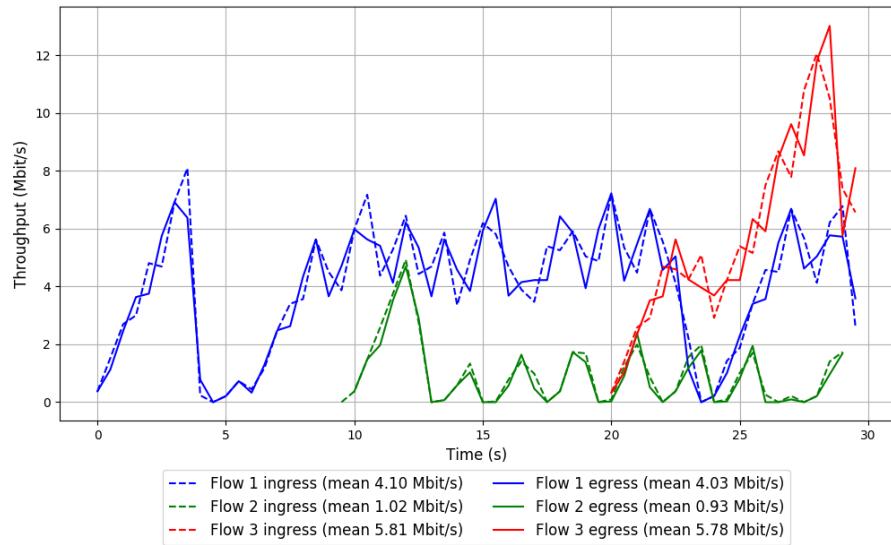
Run 10: Statistics of LEDBAT

Start at: 2017-08-21 08:52:00

End at: 2017-08-21 08:52:30

```
# Below is generated by plot.py at 2017-08-21 09:51:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.53 Mbit/s
95th percentile per-packet one-way delay: 54.348 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 4.03 Mbit/s
95th percentile per-packet one-way delay: 54.215 ms
Loss rate: 1.78%
-- Flow 2:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 54.124 ms
Loss rate: 9.78%
-- Flow 3:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 54.558 ms
Loss rate: 0.39%
```

Run 10: Report of LEDBAT — Data Link

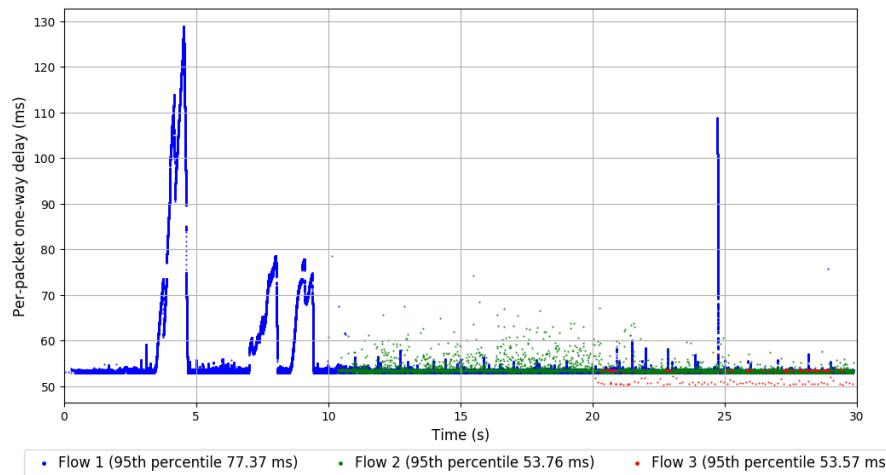
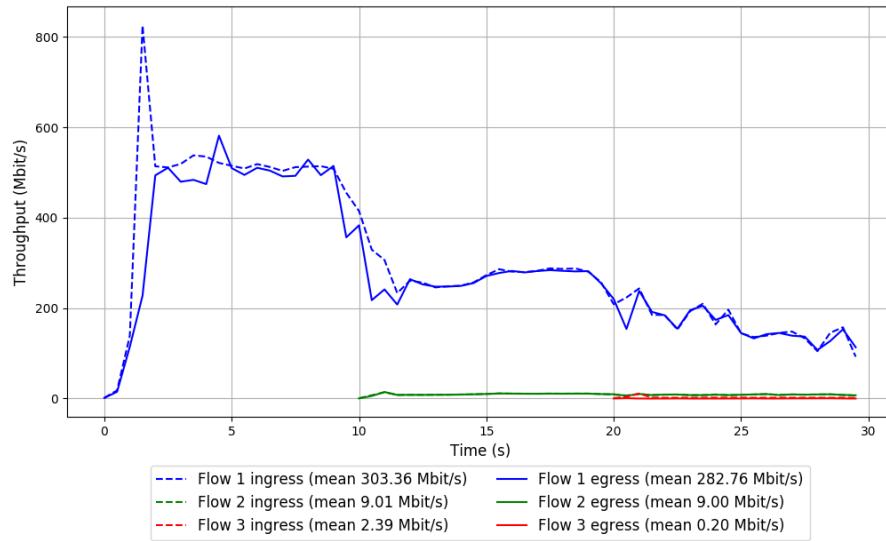


```
Run 1: Statistics of PCC

Start at: 2017-08-21 07:09:55
End at: 2017-08-21 07:10:25

# Below is generated by plot.py at 2017-08-21 09:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.78 Mbit/s
95th percentile per-packet one-way delay: 77.092 ms
Loss rate: 6.88%
-- Flow 1:
Average throughput: 282.76 Mbit/s
95th percentile per-packet one-way delay: 77.374 ms
Loss rate: 6.79%
-- Flow 2:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 53.762 ms
Loss rate: 0.25%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 53.573 ms
Loss rate: 91.46%
```

Run 1: Report of PCC — Data Link



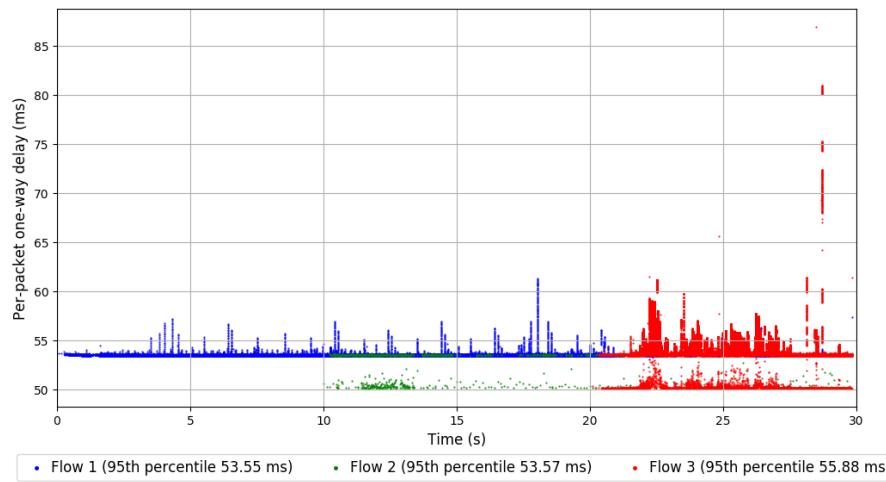
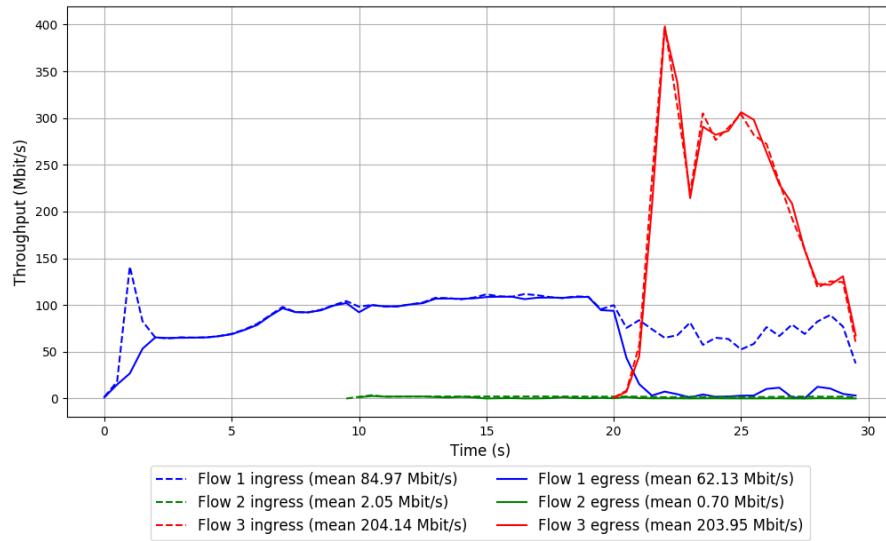
Run 2: Statistics of PCC

Start at: 2017-08-21 07:20:41

End at: 2017-08-21 07:21:11

```
# Below is generated by plot.py at 2017-08-21 09:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 129.27 Mbit/s
95th percentile per-packet one-way delay: 55.120 ms
Loss rate: 15.52%
-- Flow 1:
Average throughput: 62.13 Mbit/s
95th percentile per-packet one-way delay: 53.553 ms
Loss rate: 26.88%
-- Flow 2:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 53.570 ms
Loss rate: 65.72%
-- Flow 3:
Average throughput: 203.95 Mbit/s
95th percentile per-packet one-way delay: 55.878 ms
Loss rate: 0.02%
```

Run 2: Report of PCC — Data Link



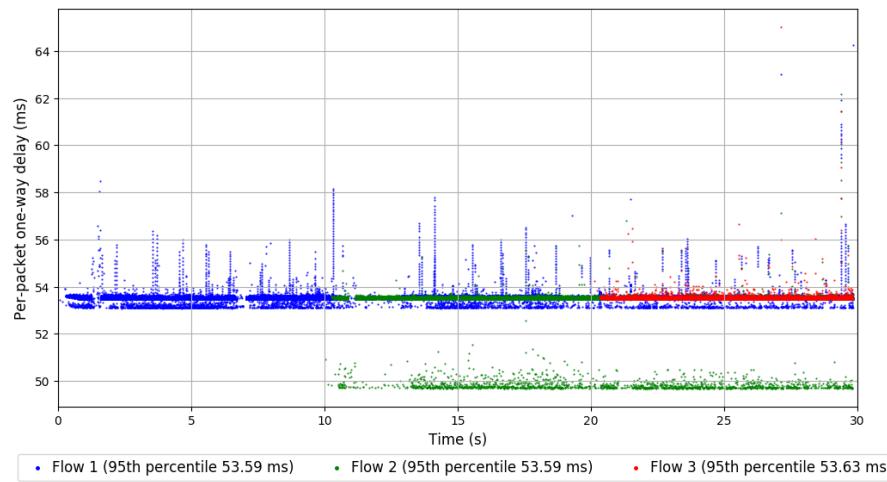
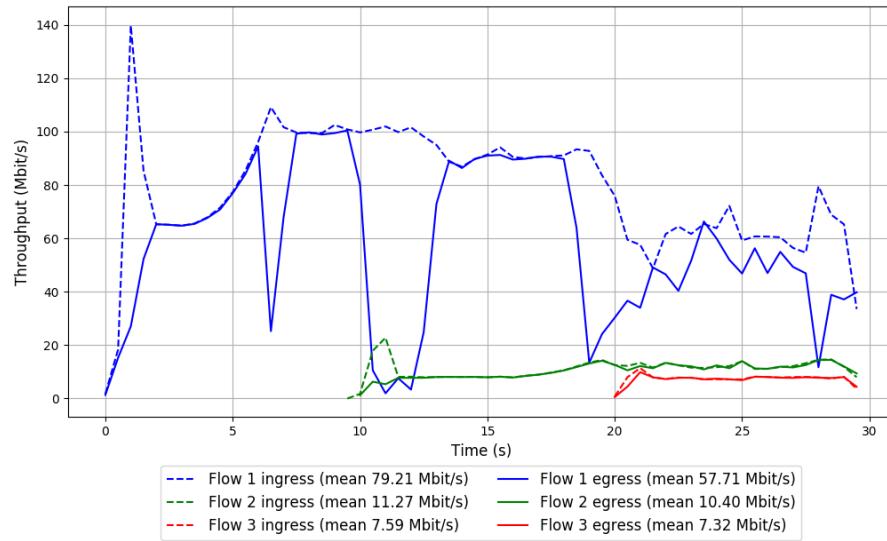
Run 3: Statistics of PCC

Start at: 2017-08-21 07:31:25

End at: 2017-08-21 07:31:55

```
# Below is generated by plot.py at 2017-08-21 09:52:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.00 Mbit/s
95th percentile per-packet one-way delay: 53.590 ms
Loss rate: 24.84%
-- Flow 1:
Average throughput: 57.71 Mbit/s
95th percentile per-packet one-way delay: 53.589 ms
Loss rate: 27.12%
-- Flow 2:
Average throughput: 10.40 Mbit/s
95th percentile per-packet one-way delay: 53.589 ms
Loss rate: 7.71%
-- Flow 3:
Average throughput: 7.32 Mbit/s
95th percentile per-packet one-way delay: 53.630 ms
Loss rate: 3.56%
```

Run 3: Report of PCC — Data Link



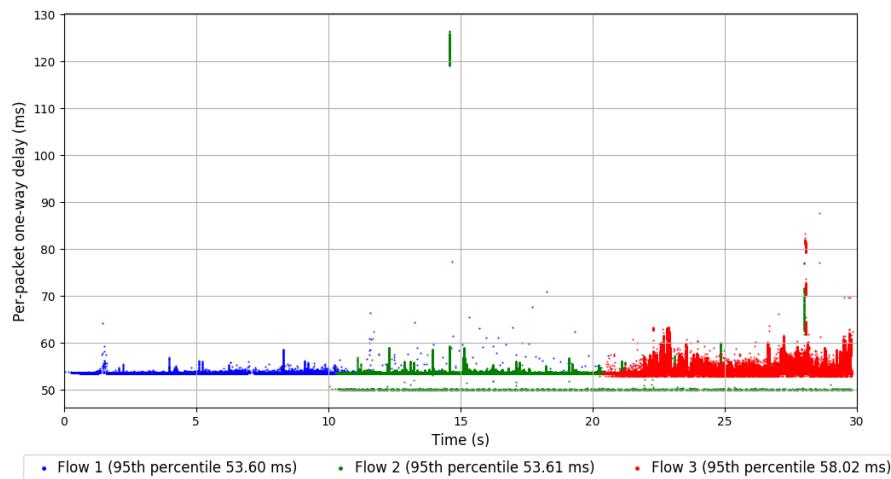
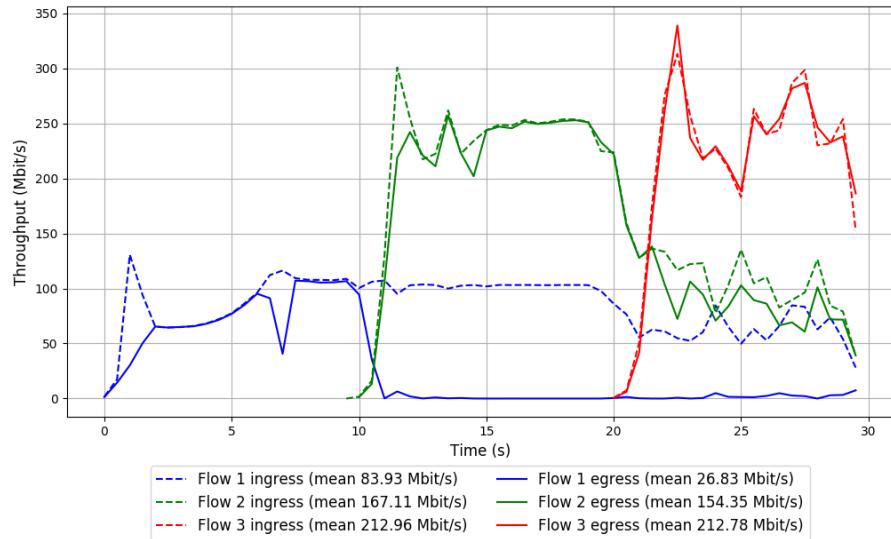
Run 4: Statistics of PCC

Start at: 2017-08-21 07:42:28

End at: 2017-08-21 07:42:58

```
# Below is generated by plot.py at 2017-08-21 09:53:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.44 Mbit/s
95th percentile per-packet one-way delay: 56.130 ms
Loss rate: 24.85%
-- Flow 1:
Average throughput: 26.83 Mbit/s
95th percentile per-packet one-way delay: 53.605 ms
Loss rate: 68.10%
-- Flow 2:
Average throughput: 154.35 Mbit/s
95th percentile per-packet one-way delay: 53.607 ms
Loss rate: 7.61%
-- Flow 3:
Average throughput: 212.78 Mbit/s
95th percentile per-packet one-way delay: 58.016 ms
Loss rate: 0.03%
```

Run 4: Report of PCC — Data Link



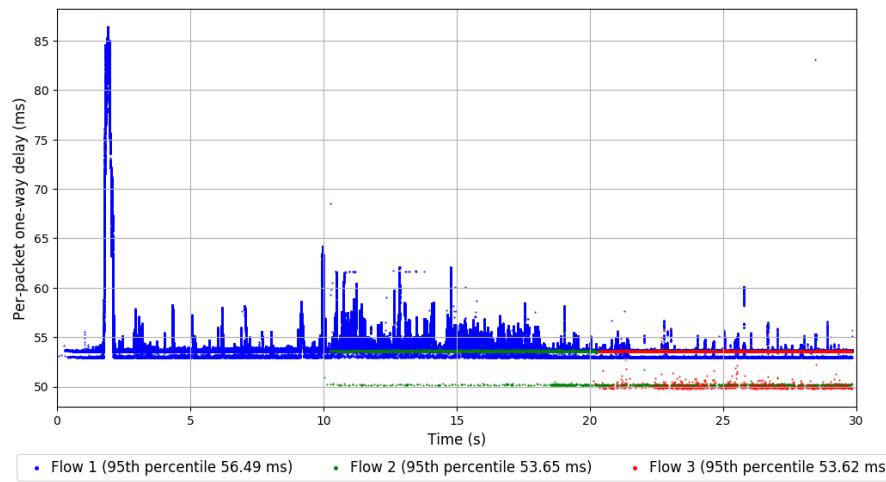
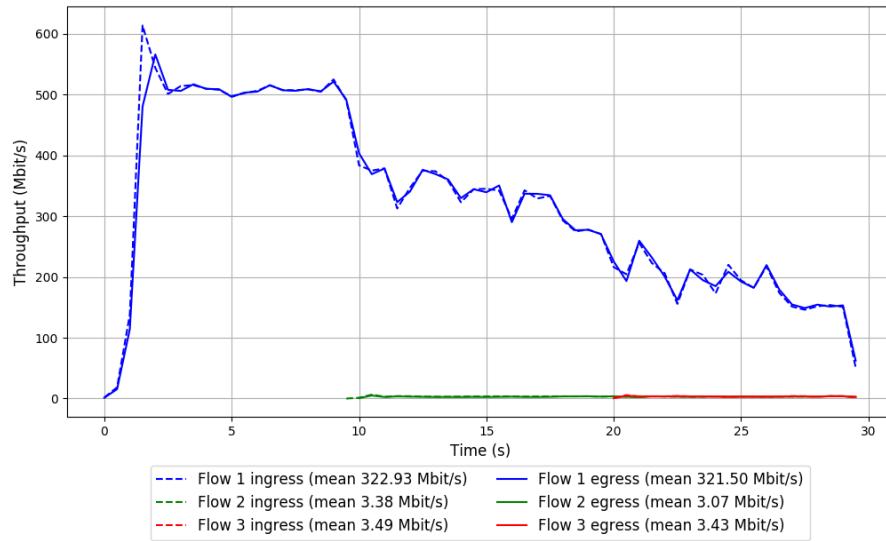
Run 5: Statistics of PCC

Start at: 2017-08-21 07:53:06

End at: 2017-08-21 07:53:36

```
# Below is generated by plot.py at 2017-08-21 09:53:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 324.58 Mbit/s
95th percentile per-packet one-way delay: 56.459 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 321.50 Mbit/s
95th percentile per-packet one-way delay: 56.487 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 3.07 Mbit/s
95th percentile per-packet one-way delay: 53.649 ms
Loss rate: 9.30%
-- Flow 3:
Average throughput: 3.43 Mbit/s
95th percentile per-packet one-way delay: 53.622 ms
Loss rate: 1.94%
```

Run 5: Report of PCC — Data Link



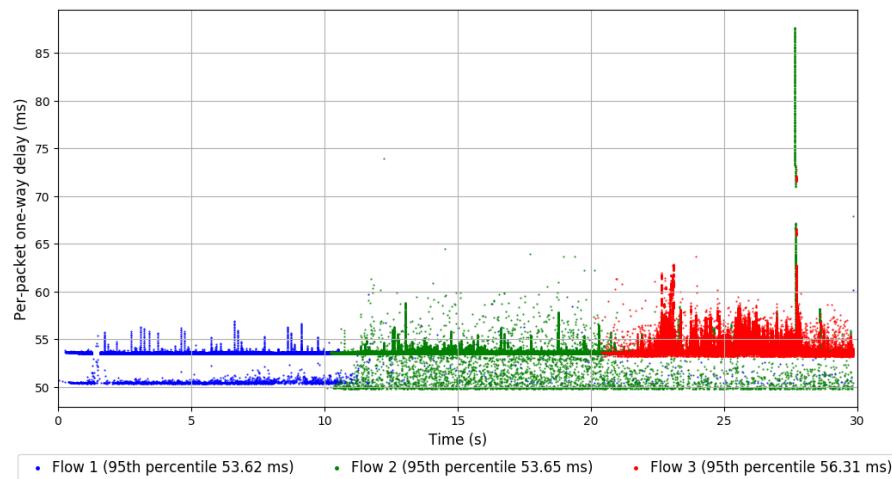
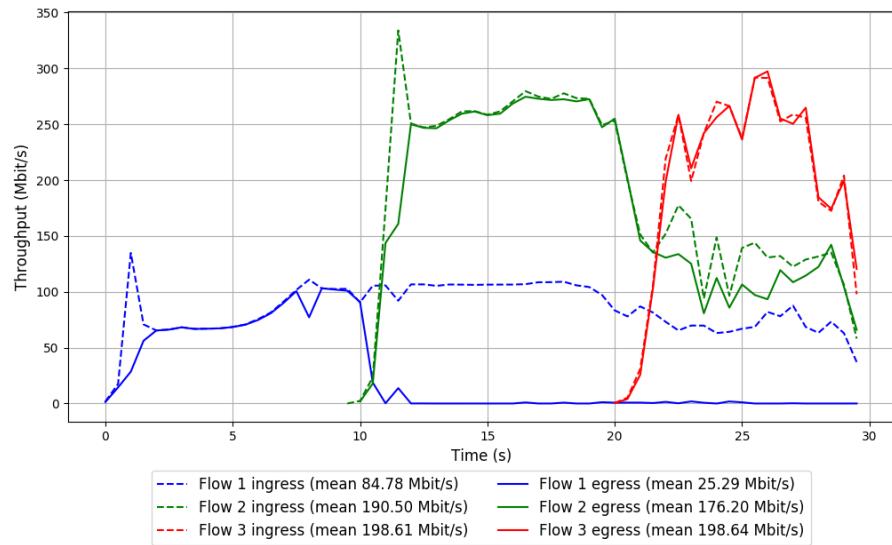
Run 6: Statistics of PCC

Start at: 2017-08-21 08:04:05

End at: 2017-08-21 08:04:35

```
# Below is generated by plot.py at 2017-08-21 09:53:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 207.05 Mbit/s
95th percentile per-packet one-way delay: 54.976 ms
Loss rate: 24.96%
-- Flow 1:
Average throughput: 25.29 Mbit/s
95th percentile per-packet one-way delay: 53.623 ms
Loss rate: 70.16%
-- Flow 2:
Average throughput: 176.20 Mbit/s
95th percentile per-packet one-way delay: 53.650 ms
Loss rate: 7.43%
-- Flow 3:
Average throughput: 198.64 Mbit/s
95th percentile per-packet one-way delay: 56.315 ms
Loss rate: 0.02%
```

Run 6: Report of PCC — Data Link



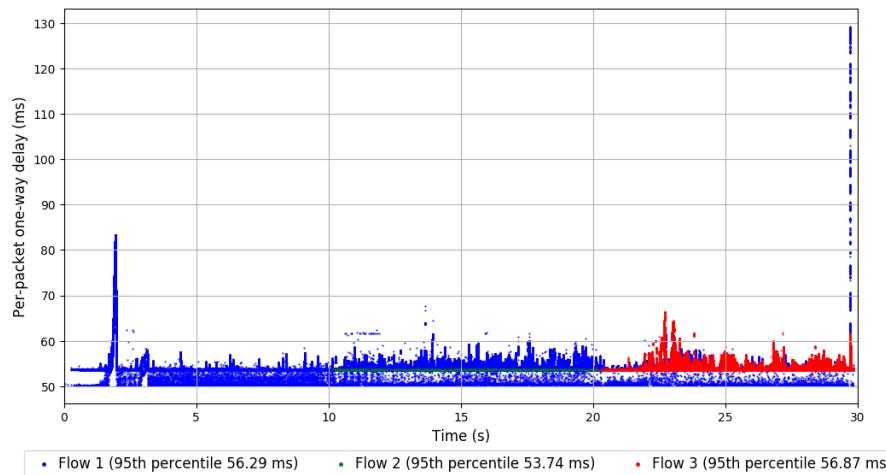
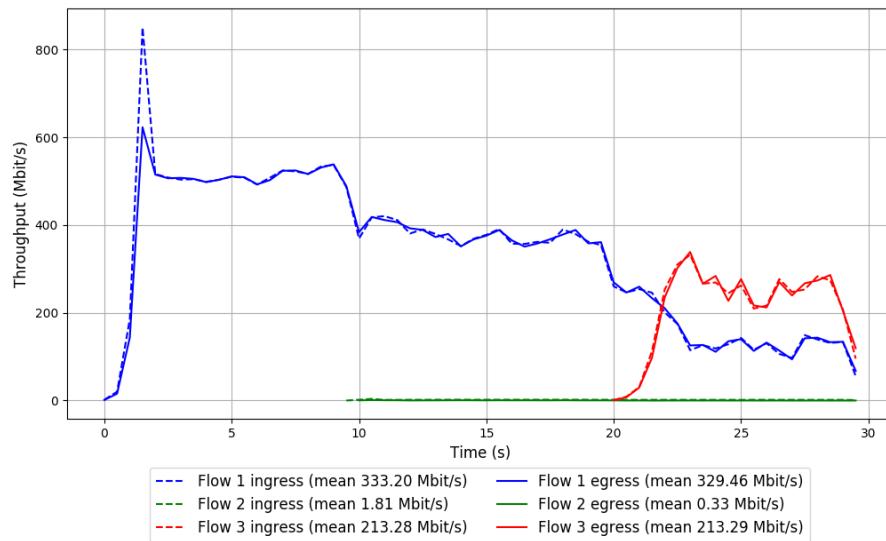
Run 7: Statistics of PCC

Start at: 2017-08-21 08:15:05

End at: 2017-08-21 08:15:35

```
# Below is generated by plot.py at 2017-08-21 09:54:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 399.40 Mbit/s
95th percentile per-packet one-way delay: 56.432 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 329.46 Mbit/s
95th percentile per-packet one-way delay: 56.286 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 53.738 ms
Loss rate: 81.87%
-- Flow 3:
Average throughput: 213.29 Mbit/s
95th percentile per-packet one-way delay: 56.866 ms
Loss rate: 0.00%
```

Run 7: Report of PCC — Data Link



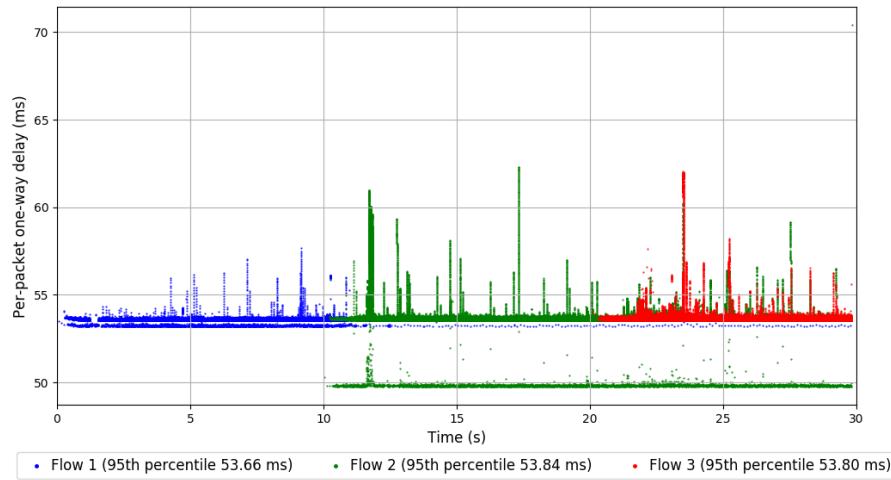
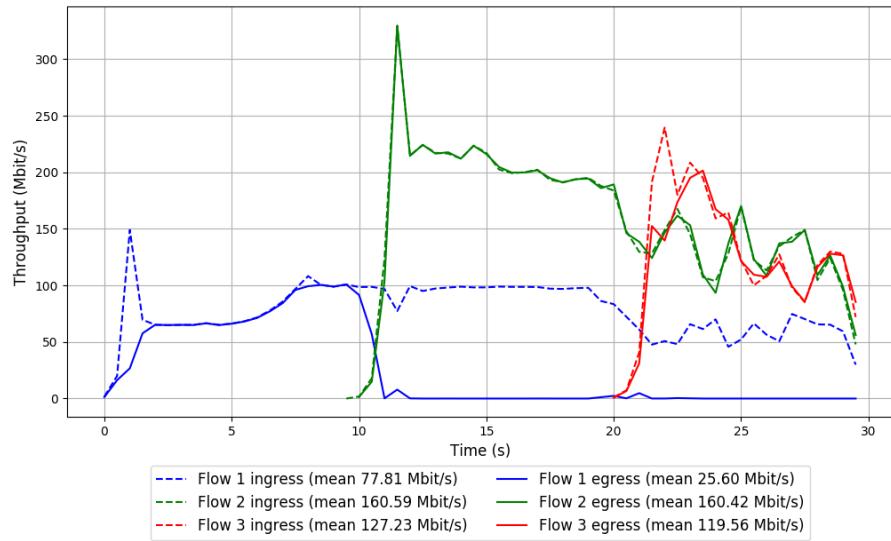
Run 8: Statistics of PCC

Start at: 2017-08-21 08:26:03

End at: 2017-08-21 08:26:33

```
# Below is generated by plot.py at 2017-08-21 09:54:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 171.33 Mbit/s
95th percentile per-packet one-way delay: 53.780 ms
Loss rate: 24.22%
-- Flow 1:
Average throughput: 25.60 Mbit/s
95th percentile per-packet one-way delay: 53.659 ms
Loss rate: 67.14%
-- Flow 2:
Average throughput: 160.42 Mbit/s
95th percentile per-packet one-way delay: 53.844 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 119.56 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 6.06%
```

Run 8: Report of PCC — Data Link



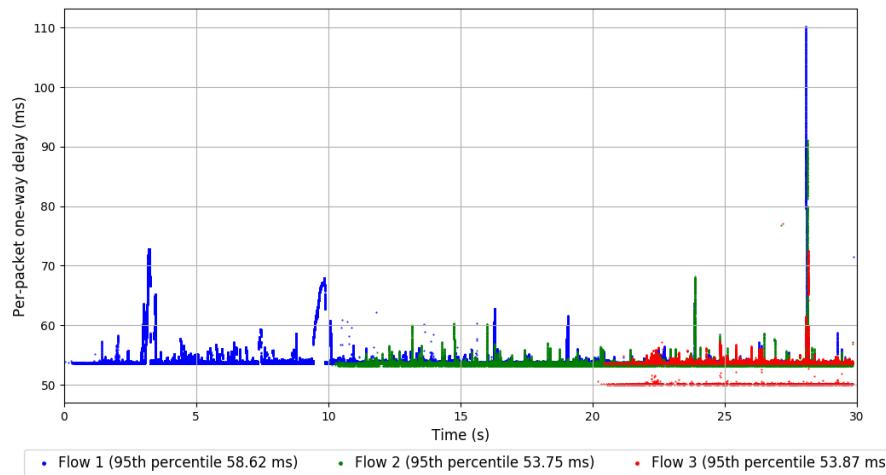
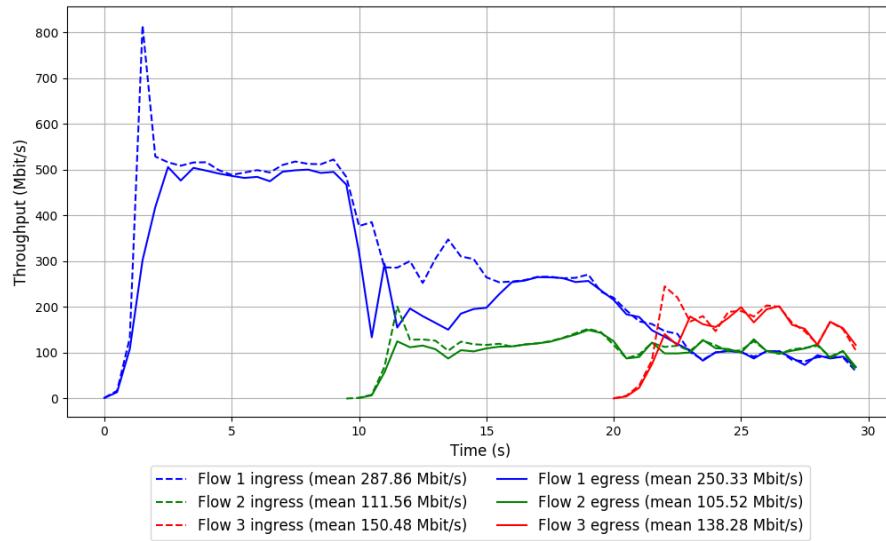
Run 9: Statistics of PCC

Start at: 2017-08-21 08:36:44

End at: 2017-08-21 08:37:14

```
# Below is generated by plot.py at 2017-08-21 09:55:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 365.19 Mbit/s
95th percentile per-packet one-way delay: 56.127 ms
Loss rate: 11.05%
-- Flow 1:
Average throughput: 250.33 Mbit/s
95th percentile per-packet one-way delay: 58.618 ms
Loss rate: 13.00%
-- Flow 2:
Average throughput: 105.52 Mbit/s
95th percentile per-packet one-way delay: 53.750 ms
Loss rate: 5.41%
-- Flow 3:
Average throughput: 138.28 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 8.07%
```

Run 9: Report of PCC — Data Link



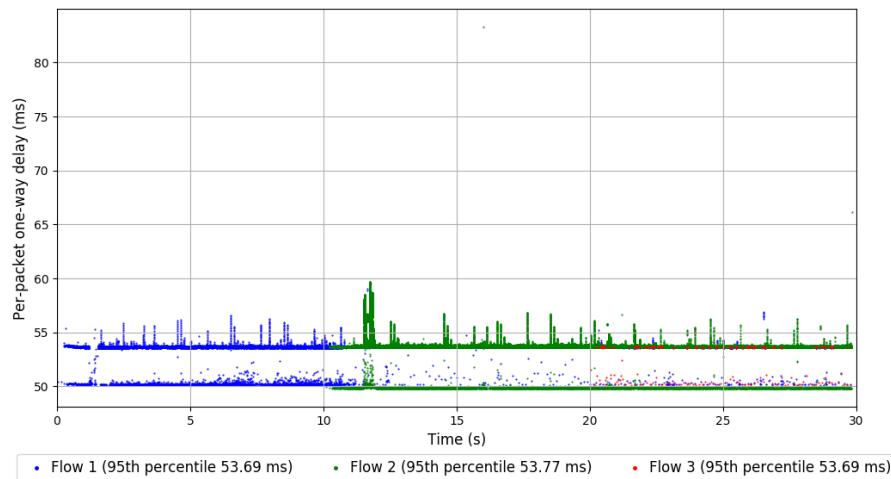
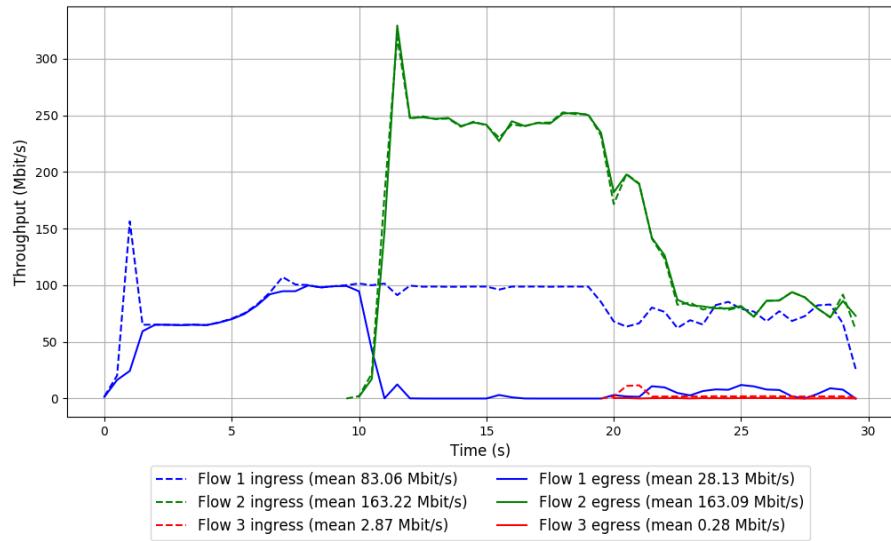
Run 10: Statistics of PCC

Start at: 2017-08-21 08:47:45

End at: 2017-08-21 08:48:15

```
# Below is generated by plot.py at 2017-08-21 09:55:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 136.76 Mbit/s
95th percentile per-packet one-way delay: 53.735 ms
Loss rate: 28.97%
-- Flow 1:
Average throughput: 28.13 Mbit/s
95th percentile per-packet one-way delay: 53.689 ms
Loss rate: 66.18%
-- Flow 2:
Average throughput: 163.09 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 90.29%
```

Run 10: Report of PCC — Data Link

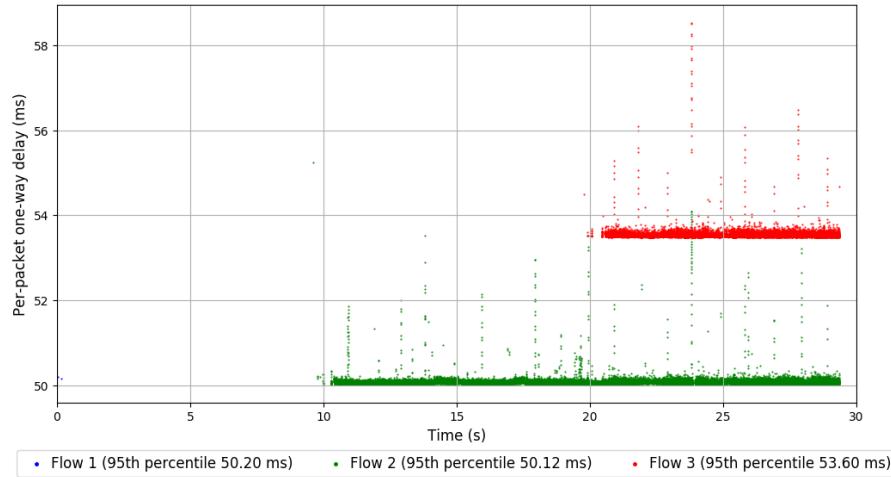
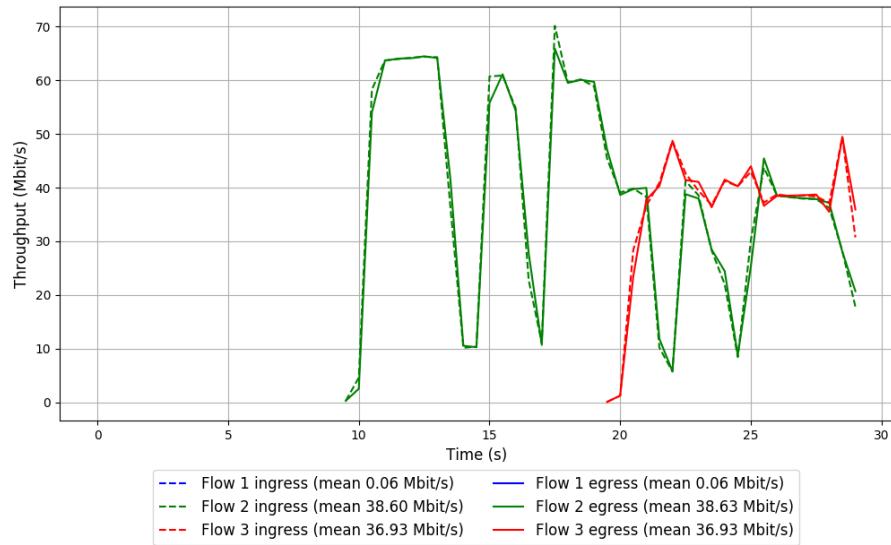


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-08-21 07:19:11
End at: 2017-08-21 07:19:41

# Below is generated by plot.py at 2017-08-21 09:55:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.08 Mbit/s
95th percentile per-packet one-way delay: 53.548 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.198 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 50.120 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 36.93 Mbit/s
95th percentile per-packet one-way delay: 53.601 ms
Loss rate: 0.03%
```

Run 1: Report of QUIC Cubic — Data Link



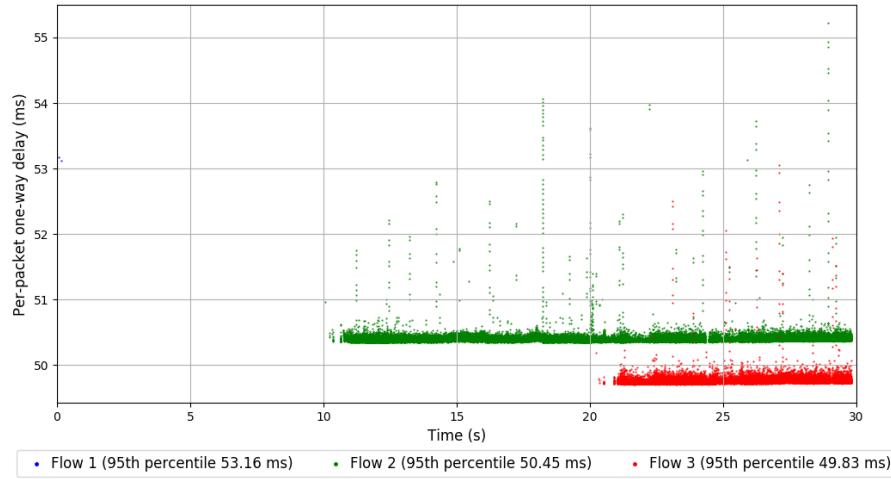
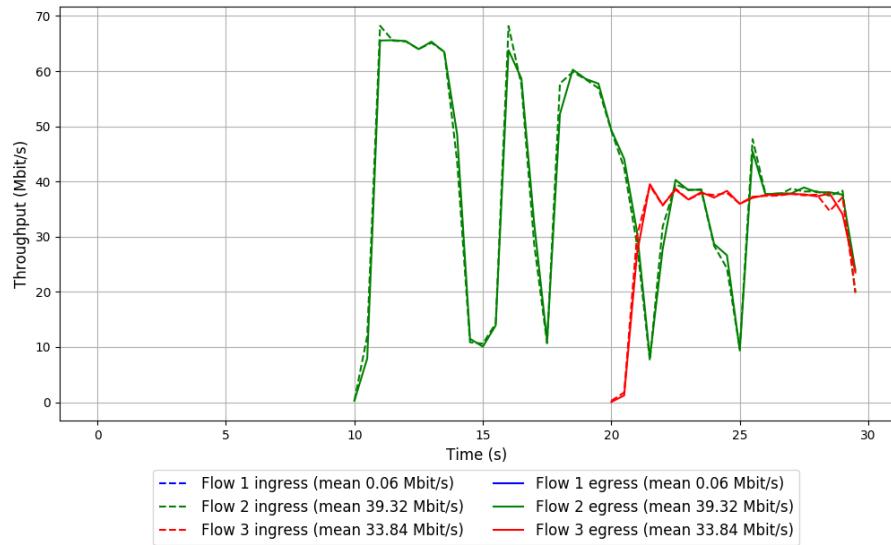
Run 2: Statistics of QUIC Cubic

Start at: 2017-08-21 07:29:59

End at: 2017-08-21 07:30:29

```
# Below is generated by plot.py at 2017-08-21 09:55:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.99 Mbit/s
95th percentile per-packet one-way delay: 50.433 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.162 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.32 Mbit/s
95th percentile per-packet one-way delay: 50.445 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.84 Mbit/s
95th percentile per-packet one-way delay: 49.828 ms
Loss rate: 0.00%
```

Run 2: Report of QUIC Cubic — Data Link



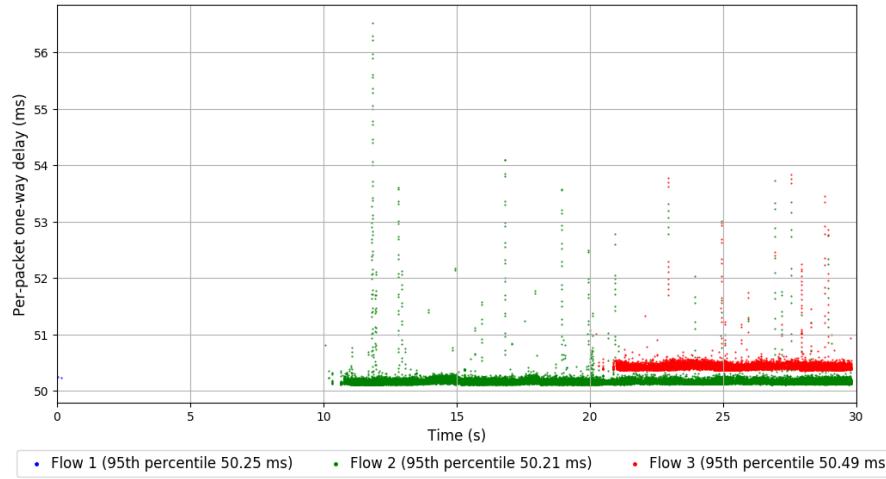
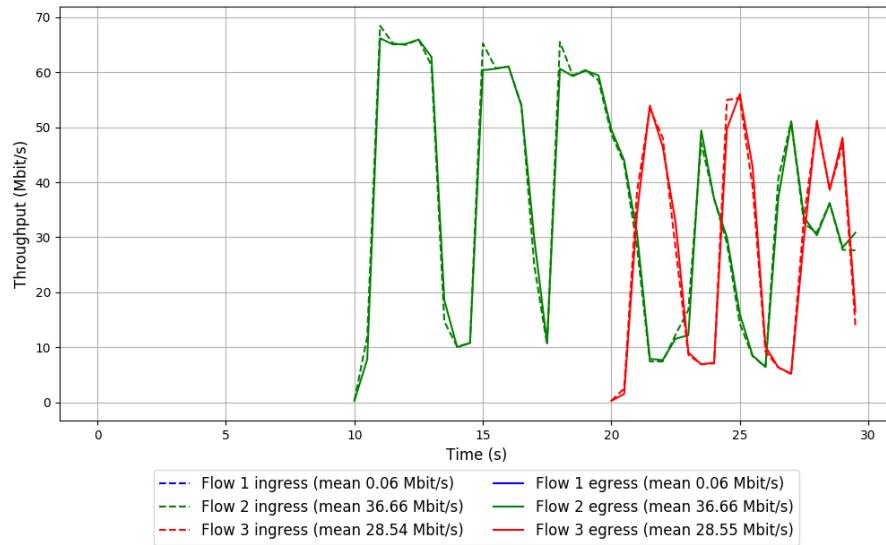
Run 3: Statistics of QUIC Cubic

Start at: 2017-08-21 07:40:53

End at: 2017-08-21 07:41:23

```
# Below is generated by plot.py at 2017-08-21 09:55:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.51 Mbit/s
95th percentile per-packet one-way delay: 50.439 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.246 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 36.66 Mbit/s
95th percentile per-packet one-way delay: 50.207 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 28.55 Mbit/s
95th percentile per-packet one-way delay: 50.488 ms
Loss rate: 0.00%
```

Run 3: Report of QUIC Cubic — Data Link



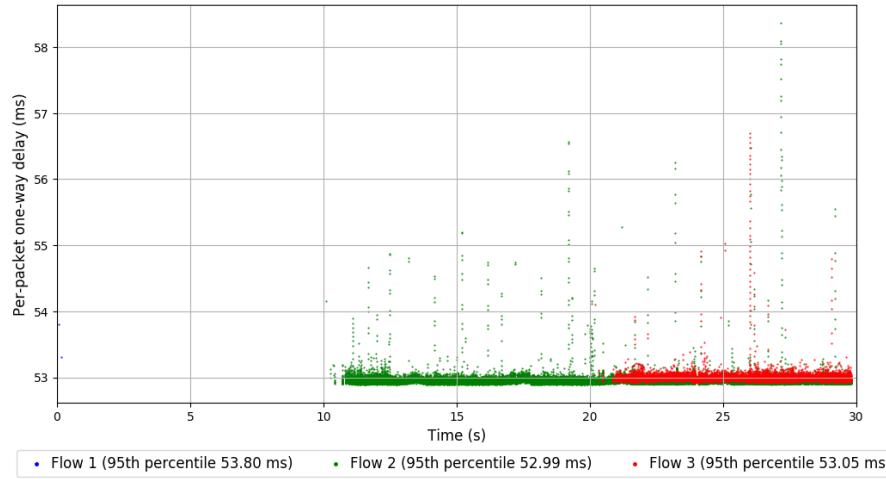
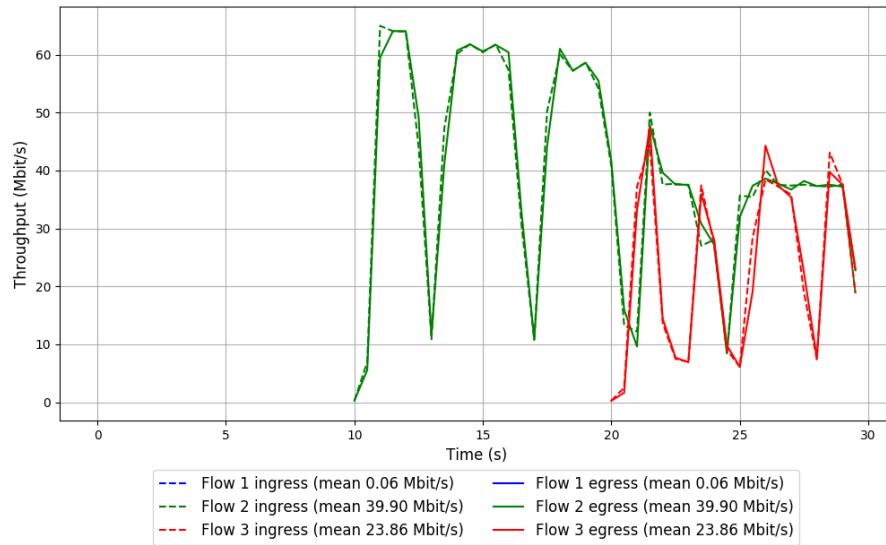
Run 4: Statistics of QUIC Cubic

Start at: 2017-08-21 07:51:42

End at: 2017-08-21 07:52:12

```
# Below is generated by plot.py at 2017-08-21 09:55:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.13 Mbit/s
95th percentile per-packet one-way delay: 53.013 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.90 Mbit/s
95th percentile per-packet one-way delay: 52.993 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 23.86 Mbit/s
95th percentile per-packet one-way delay: 53.048 ms
Loss rate: 0.00%
```

Run 4: Report of QUIC Cubic — Data Link



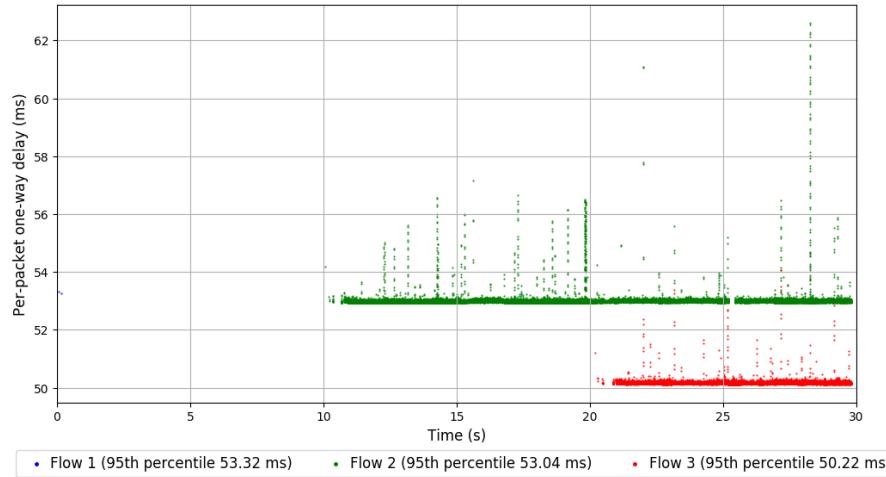
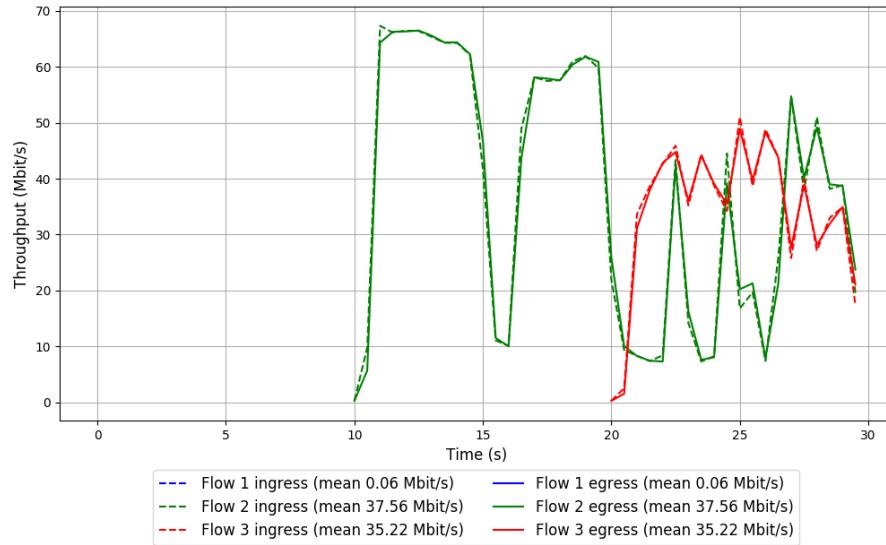
Run 5: Statistics of QUIC Cubic

Start at: 2017-08-21 08:02:42

End at: 2017-08-21 08:03:12

```
# Below is generated by plot.py at 2017-08-21 09:55:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.29 Mbit/s
95th percentile per-packet one-way delay: 53.026 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.324 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.56 Mbit/s
95th percentile per-packet one-way delay: 53.039 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 35.22 Mbit/s
95th percentile per-packet one-way delay: 50.216 ms
Loss rate: 0.00%
```

Run 5: Report of QUIC Cubic — Data Link



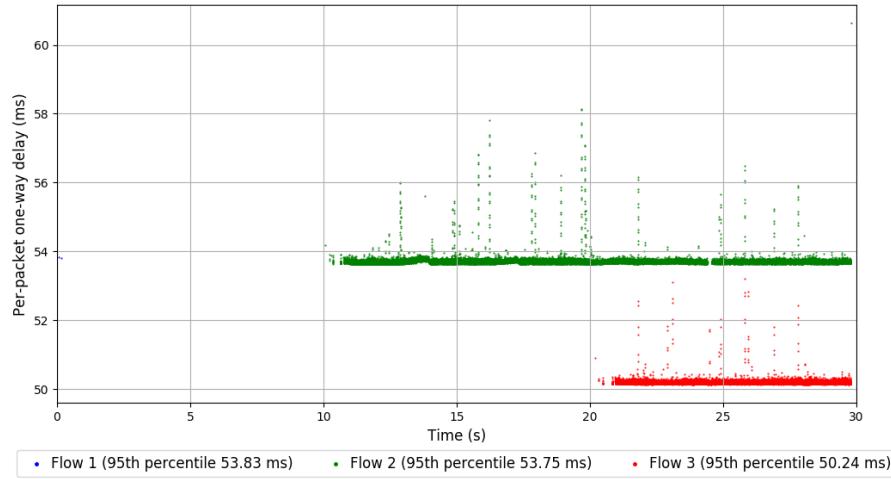
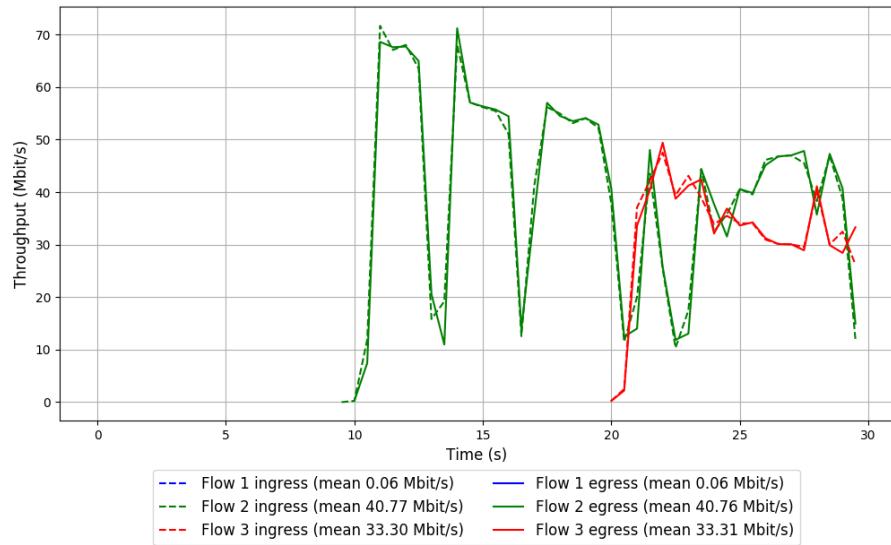
Run 6: Statistics of QUIC Cubic

Start at: 2017-08-21 08:13:38

End at: 2017-08-21 08:14:08

```
# Below is generated by plot.py at 2017-08-21 09:56:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.78 Mbit/s
95th percentile per-packet one-way delay: 53.740 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.828 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 53.750 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 33.31 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.00%
```

Run 6: Report of QUIC Cubic — Data Link

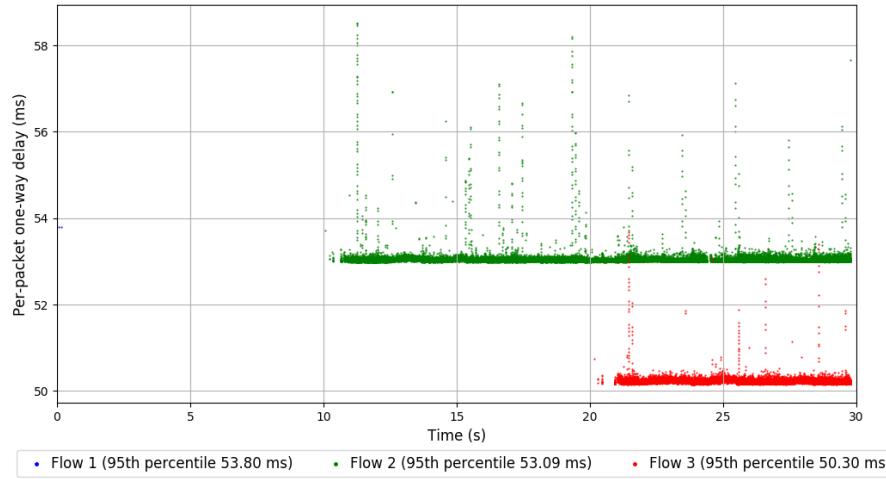
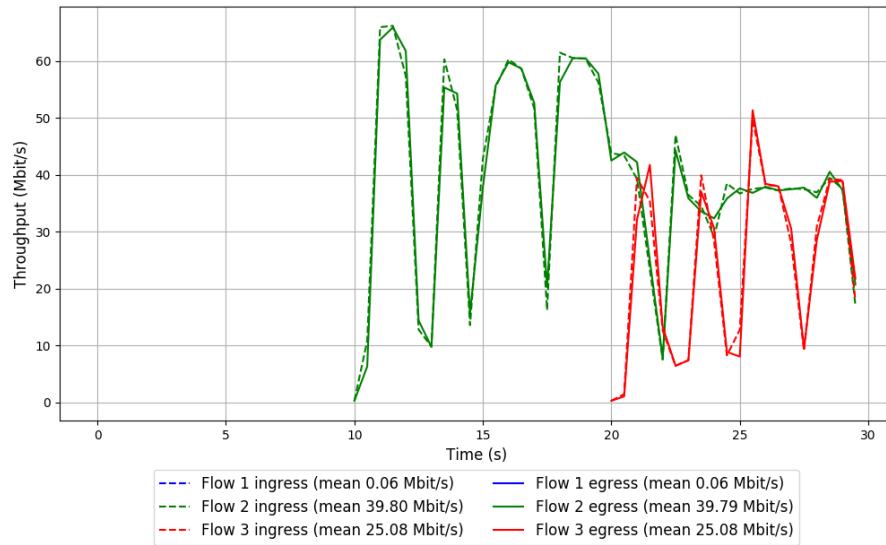


```
Run 7: Statistics of QUIC Cubic

Start at: 2017-08-21 08:24:41
End at: 2017-08-21 08:25:11

# Below is generated by plot.py at 2017-08-21 09:56:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.50 Mbit/s
95th percentile per-packet one-way delay: 53.077 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.799 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.79 Mbit/s
95th percentile per-packet one-way delay: 53.088 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 50.296 ms
Loss rate: 0.00%
```

Run 7: Report of QUIC Cubic — Data Link



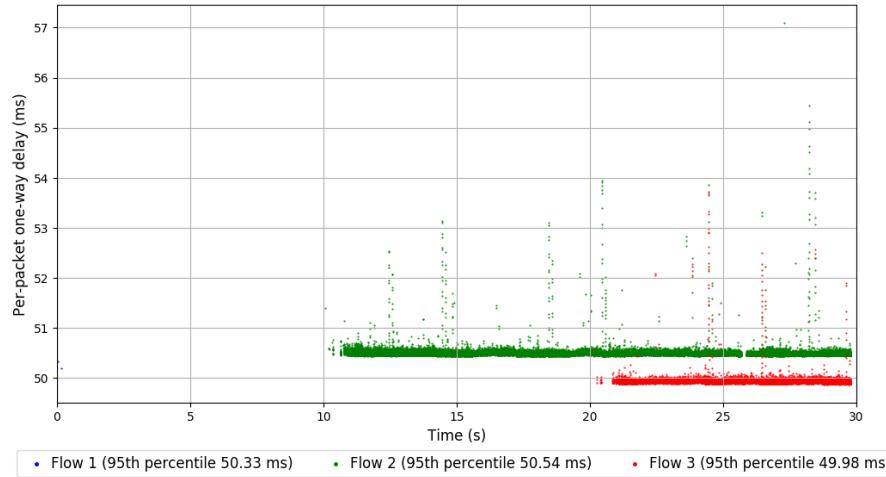
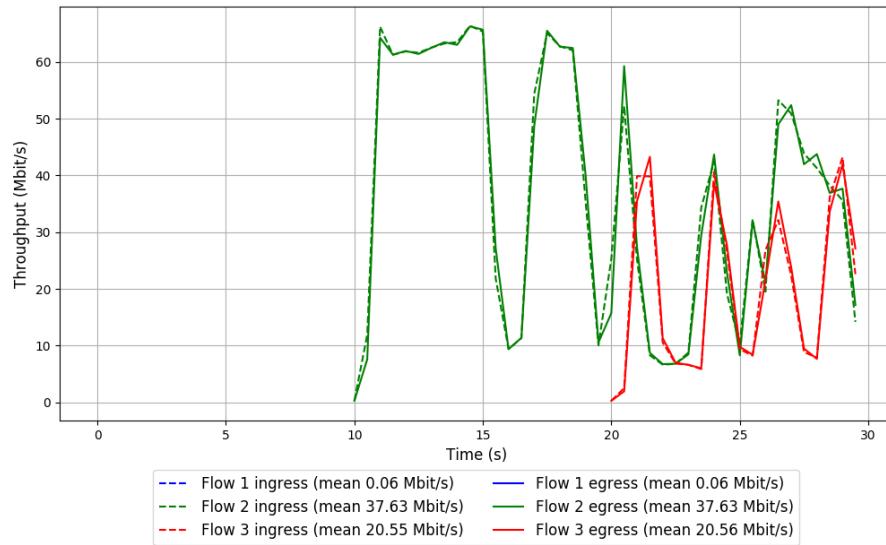
Run 8: Statistics of QUIC Cubic

Start at: 2017-08-21 08:35:22

End at: 2017-08-21 08:35:52

```
# Below is generated by plot.py at 2017-08-21 09:56:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 31.64 Mbit/s
95th percentile per-packet one-way delay: 50.534 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.334 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.63 Mbit/s
95th percentile per-packet one-way delay: 50.541 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.56 Mbit/s
95th percentile per-packet one-way delay: 49.984 ms
Loss rate: 0.01%
```

Run 8: Report of QUIC Cubic — Data Link



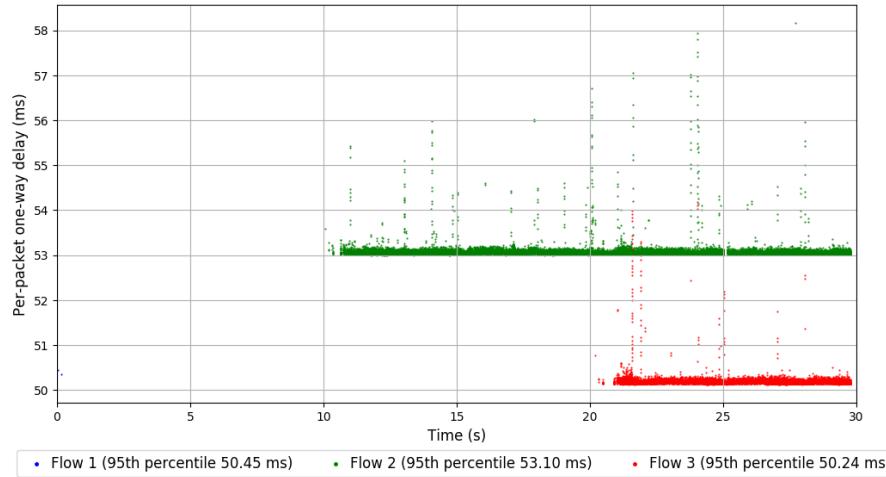
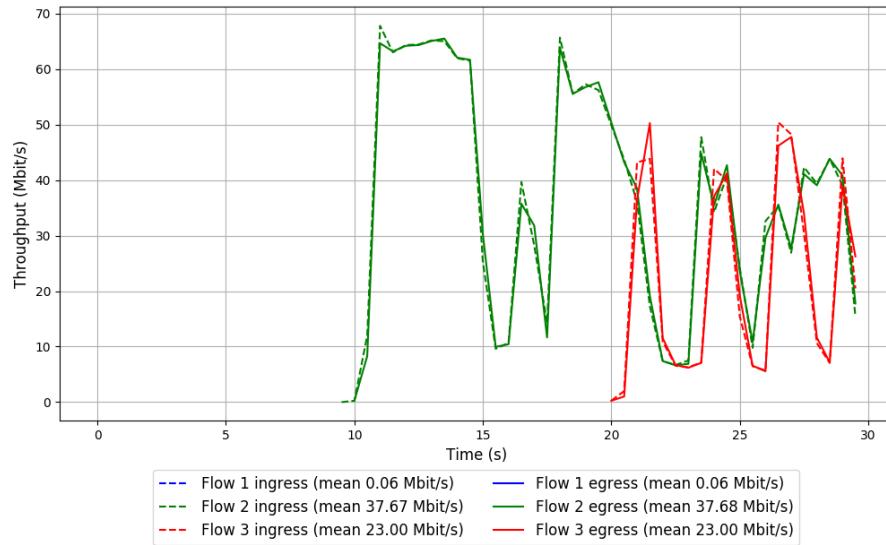
Run 9: Statistics of QUIC Cubic

Start at: 2017-08-21 08:46:21

End at: 2017-08-21 08:46:51

```
# Below is generated by plot.py at 2017-08-21 09:56:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.42 Mbit/s
95th percentile per-packet one-way delay: 53.093 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.446 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 37.68 Mbit/s
95th percentile per-packet one-way delay: 53.102 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 23.00 Mbit/s
95th percentile per-packet one-way delay: 50.242 ms
Loss rate: 0.00%
```

Run 9: Report of QUIC Cubic — Data Link



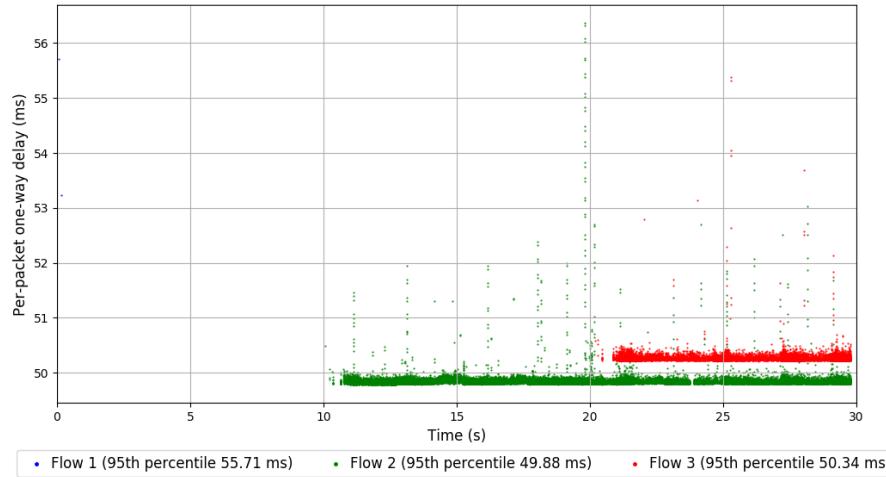
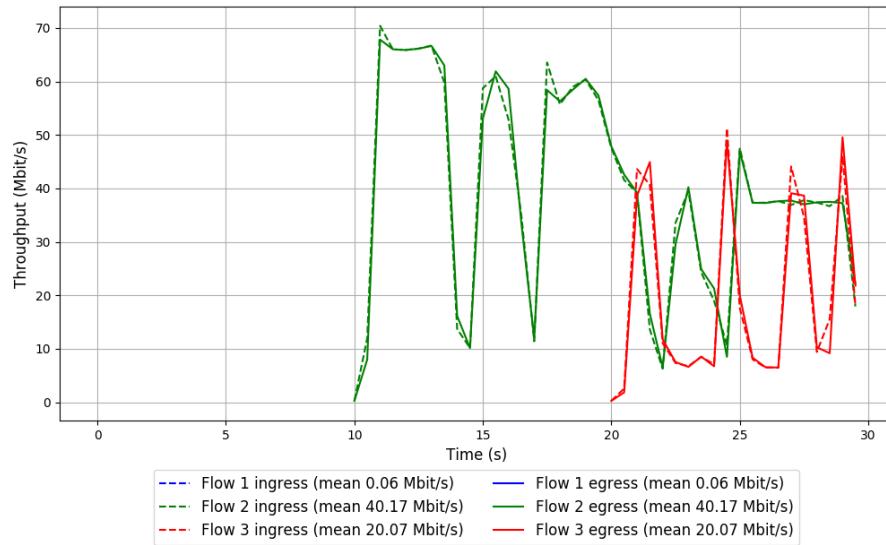
Run 10: Statistics of QUIC Cubic

Start at: 2017-08-21 08:56:59

End at: 2017-08-21 08:57:29

```
# Below is generated by plot.py at 2017-08-21 09:56:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.14 Mbit/s
95th percentile per-packet one-way delay: 50.268 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 55.706 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 40.17 Mbit/s
95th percentile per-packet one-way delay: 49.885 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.07 Mbit/s
95th percentile per-packet one-way delay: 50.338 ms
Loss rate: 0.00%
```

Run 10: Report of QUIC Cubic — Data Link

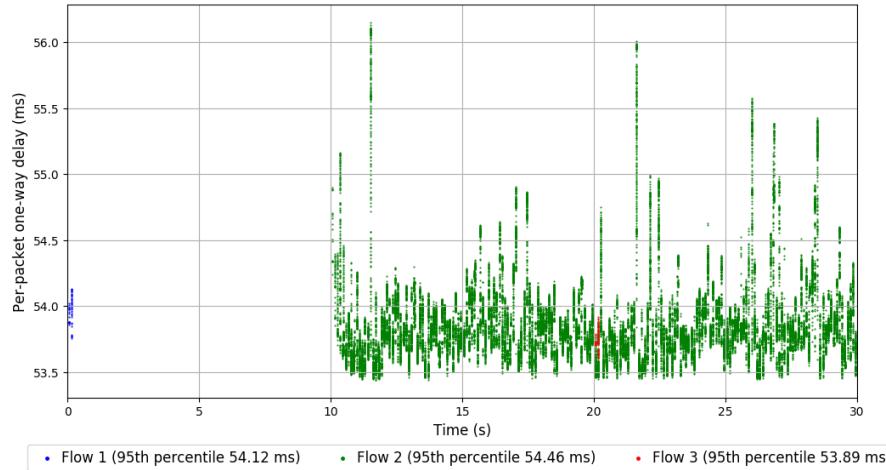
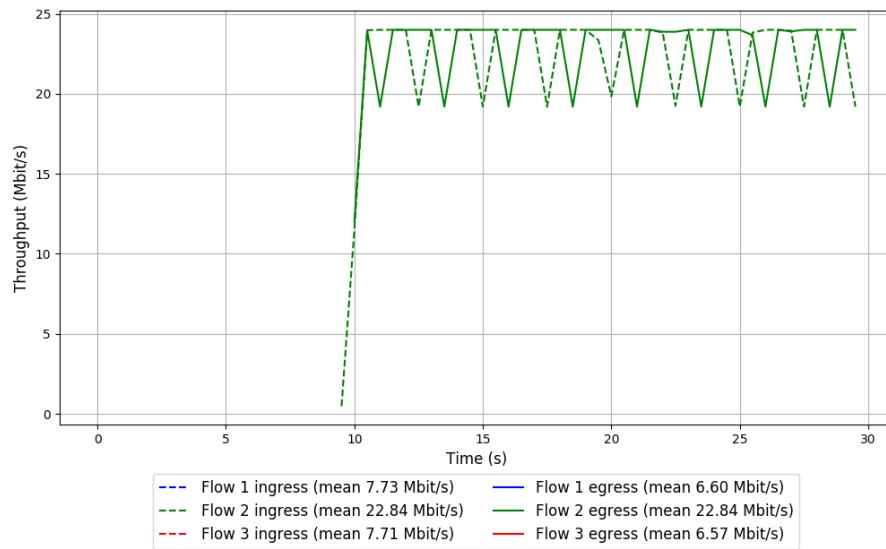


```
Run 1: Statistics of Saturator

Start at: 2017-08-21 07:10:46
End at: 2017-08-21 07:11:16

# Below is generated by plot.py at 2017-08-21 09:56:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.25 Mbit/s
95th percentile per-packet one-way delay: 54.461 ms
Loss rate: 0.46%
-- Flow 1:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 54.125 ms
Loss rate: 57.14%
-- Flow 2:
Average throughput: 22.84 Mbit/s
95th percentile per-packet one-way delay: 54.464 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 53.887 ms
Loss rate: 57.14%
```

Run 1: Report of Saturator — Data Link



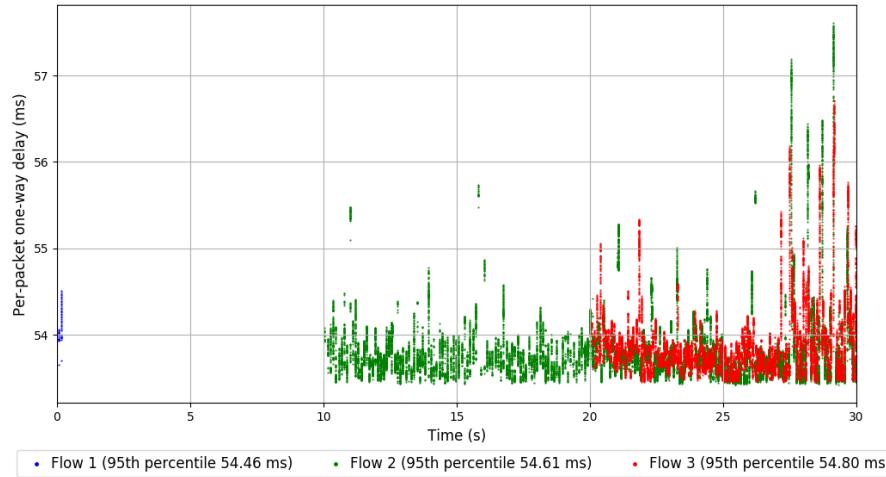
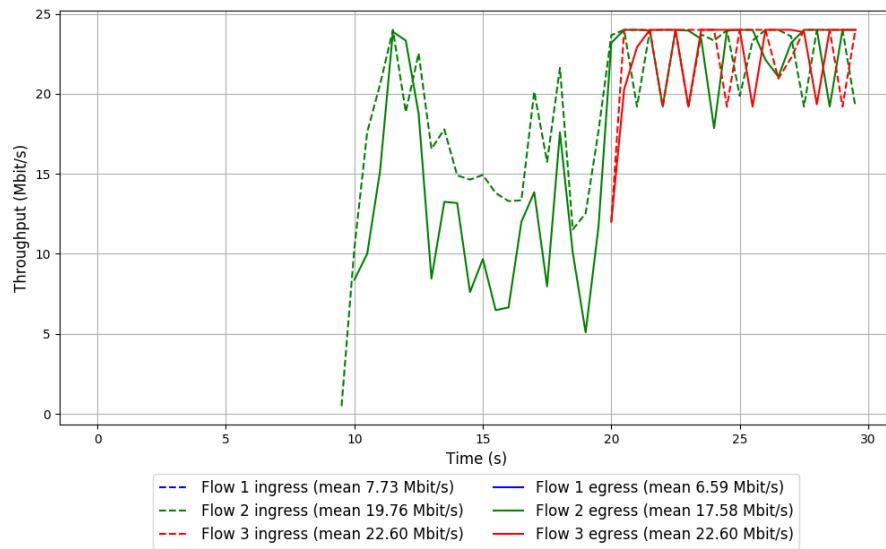
Run 2: Statistics of Saturator

Start at: 2017-08-21 07:21:26

End at: 2017-08-21 07:21:56

```
# Below is generated by plot.py at 2017-08-21 09:56:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.22 Mbit/s
95th percentile per-packet one-way delay: 54.669 ms
Loss rate: 7.17%
-- Flow 1:
Average throughput: 6.59 Mbit/s
95th percentile per-packet one-way delay: 54.457 ms
Loss rate: 57.14%
-- Flow 2:
Average throughput: 17.58 Mbit/s
95th percentile per-packet one-way delay: 54.608 ms
Loss rate: 11.05%
-- Flow 3:
Average throughput: 22.60 Mbit/s
95th percentile per-packet one-way delay: 54.800 ms
Loss rate: 0.00%
```

Run 2: Report of Saturator — Data Link



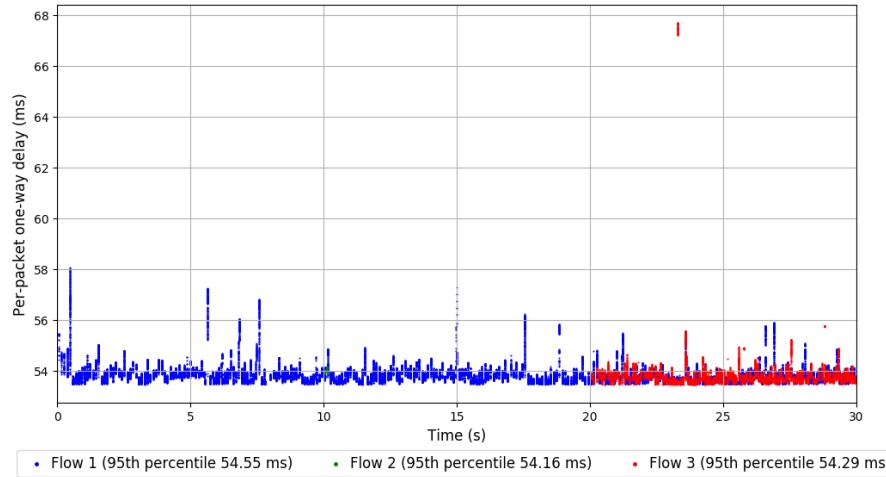
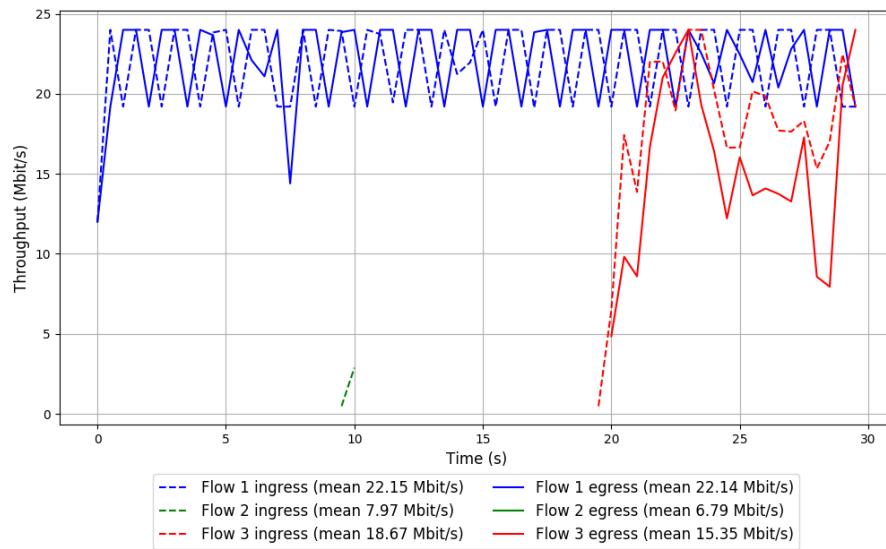
Run 3: Statistics of Saturator

Start at: 2017-08-21 07:32:08

End at: 2017-08-21 07:32:38

```
# Below is generated by plot.py at 2017-08-21 09:56:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 27.22 Mbit/s
95th percentile per-packet one-way delay: 54.510 ms
Loss rate: 4.01%
-- Flow 1:
Average throughput: 22.14 Mbit/s
95th percentile per-packet one-way delay: 54.545 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 6.79 Mbit/s
95th percentile per-packet one-way delay: 54.156 ms
Loss rate: 57.14%
-- Flow 3:
Average throughput: 15.35 Mbit/s
95th percentile per-packet one-way delay: 54.288 ms
Loss rate: 17.77%
```

Run 3: Report of Saturator — Data Link



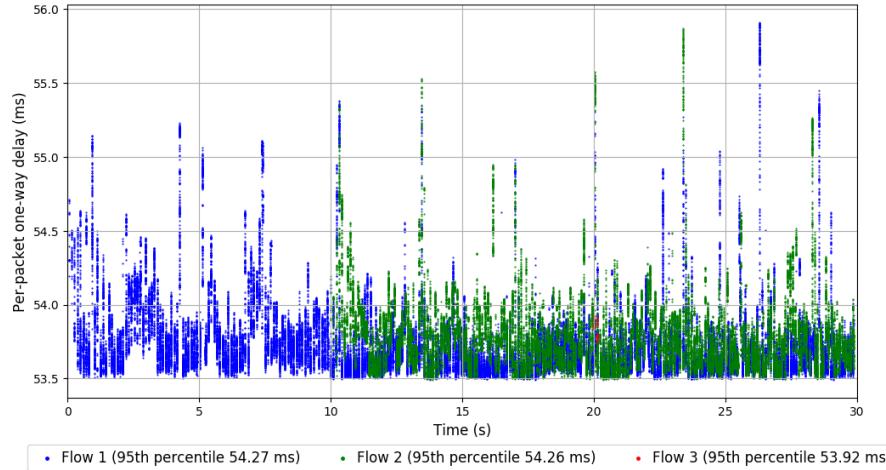
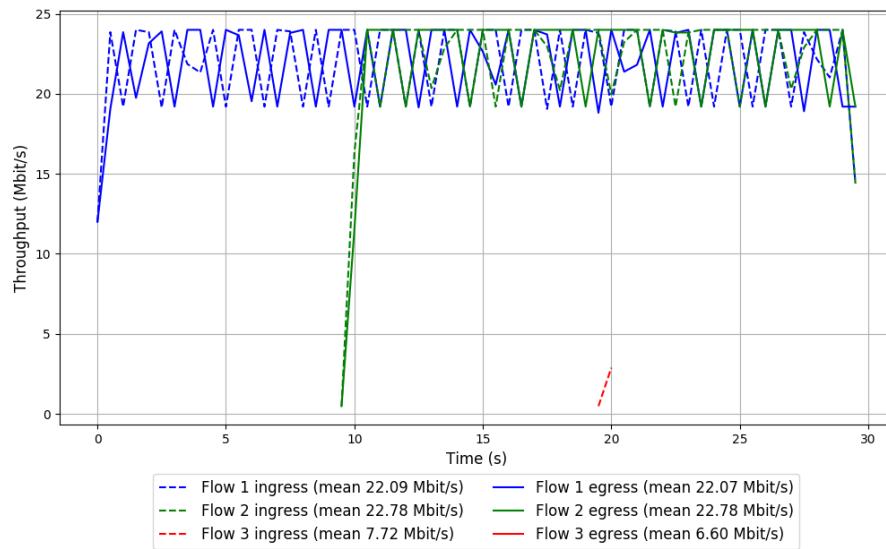
```
Run 4: Statistics of Saturator
```

```
Start at: 2017-08-21 07:43:17
```

```
End at: 2017-08-21 07:43:47
```

```
# Below is generated by plot.py at 2017-08-21 09:56:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 54.264 ms
Loss rate: 0.14%
-- Flow 1:
Average throughput: 22.07 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 22.78 Mbit/s
95th percentile per-packet one-way delay: 54.255 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 57.14%
```

Run 4: Report of Saturator — Data Link



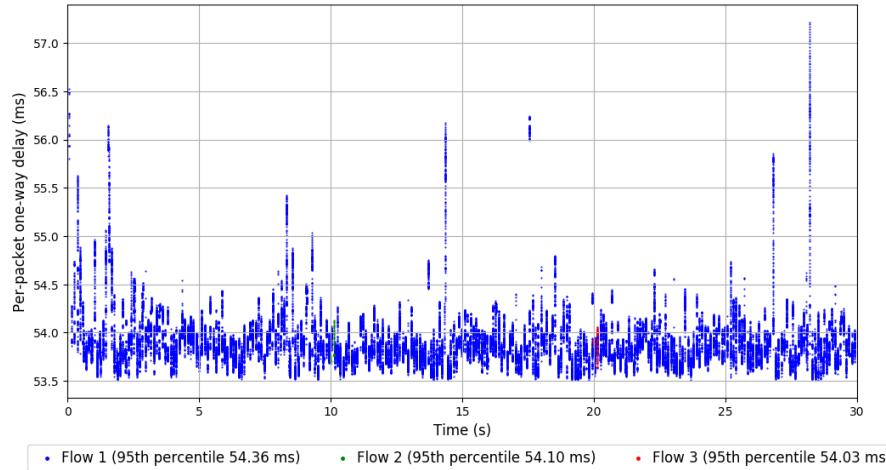
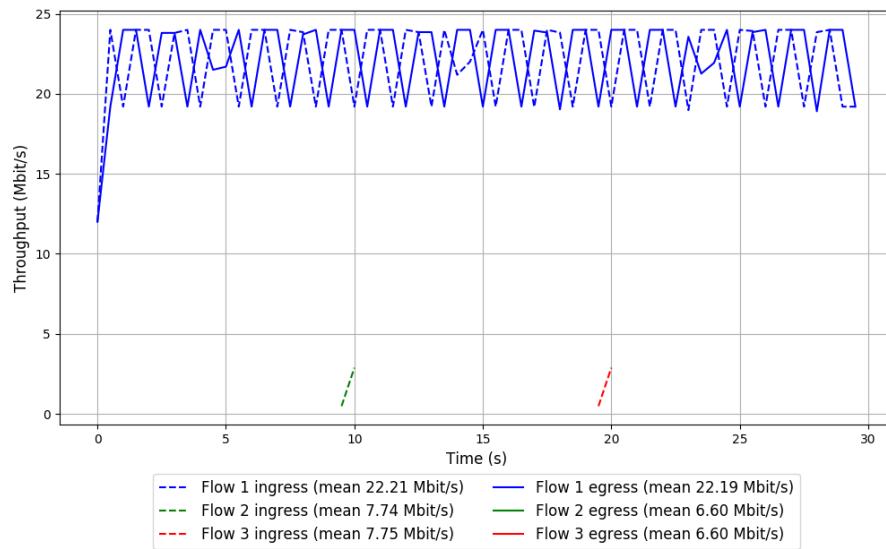
Run 5: Statistics of Saturator

Start at: 2017-08-21 07:53:59

End at: 2017-08-21 07:54:29

```
# Below is generated by plot.py at 2017-08-21 09:56:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.24 Mbit/s
95th percentile per-packet one-way delay: 54.360 ms
Loss rate: 0.37%
-- Flow 1:
Average throughput: 22.19 Mbit/s
95th percentile per-packet one-way delay: 54.361 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 54.098 ms
Loss rate: 57.14%
-- Flow 3:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 54.030 ms
Loss rate: 57.14%
```

Run 5: Report of Saturator — Data Link

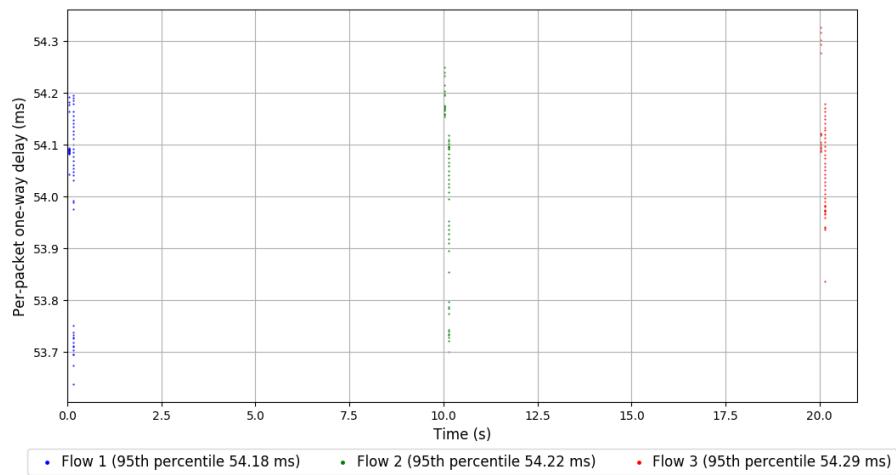
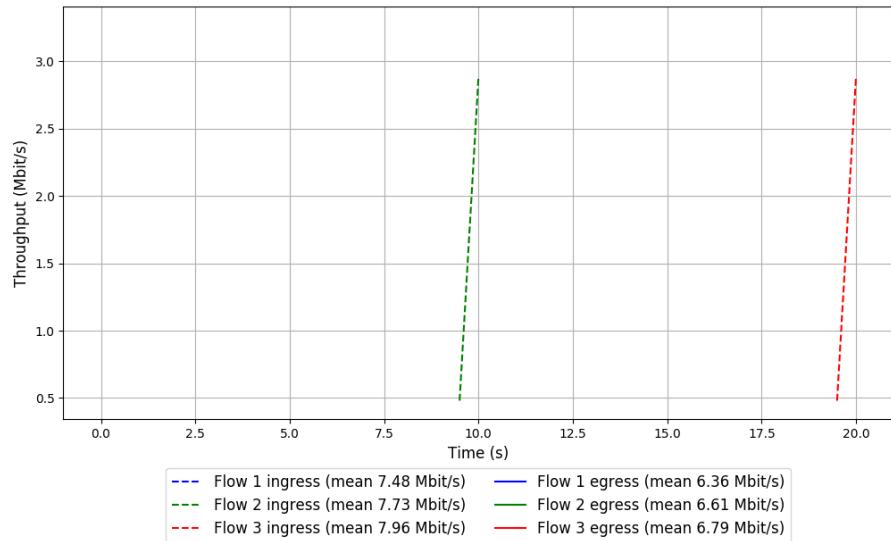


Run 6: Statistics of Saturator

Start at: 2017-08-21 08:04:54

End at: 2017-08-21 08:05:24

Run 6: Report of Saturator — Data Link



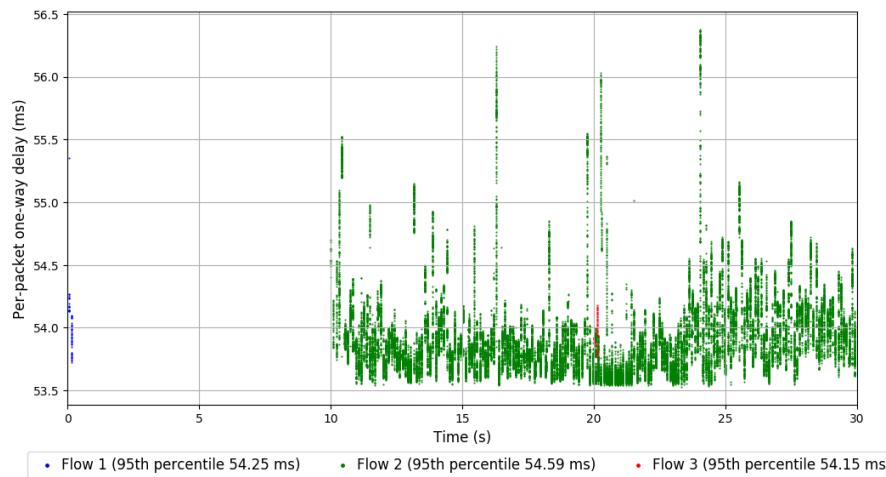
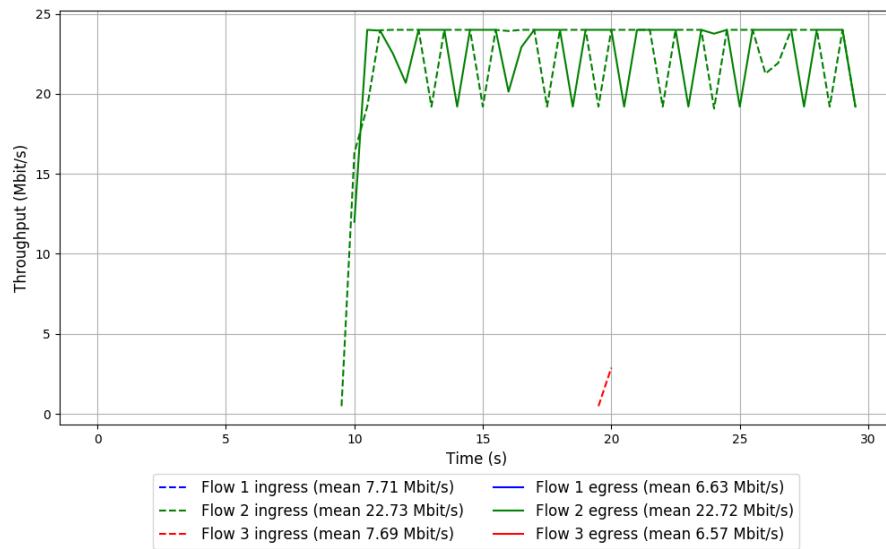
Run 7: Statistics of Saturator

Start at: 2017-08-21 08:16:00

End at: 2017-08-21 08:16:30

```
# Below is generated by plot.py at 2017-08-21 09:56:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.20 Mbit/s
95th percentile per-packet one-way delay: 54.588 ms
Loss rate: 0.45%
-- Flow 1:
Average throughput: 6.63 Mbit/s
95th percentile per-packet one-way delay: 54.254 ms
Loss rate: 57.14%
-- Flow 2:
Average throughput: 22.72 Mbit/s
95th percentile per-packet one-way delay: 54.588 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 6.57 Mbit/s
95th percentile per-packet one-way delay: 54.150 ms
Loss rate: 57.14%
```

Run 7: Report of Saturator — Data Link



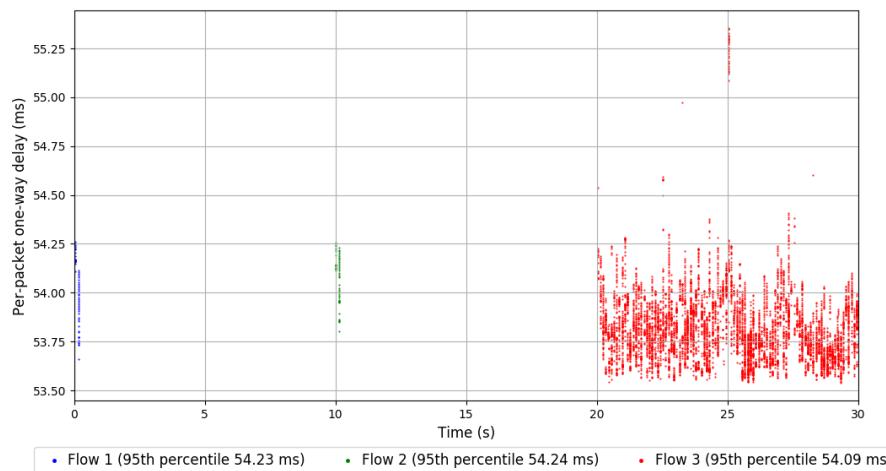
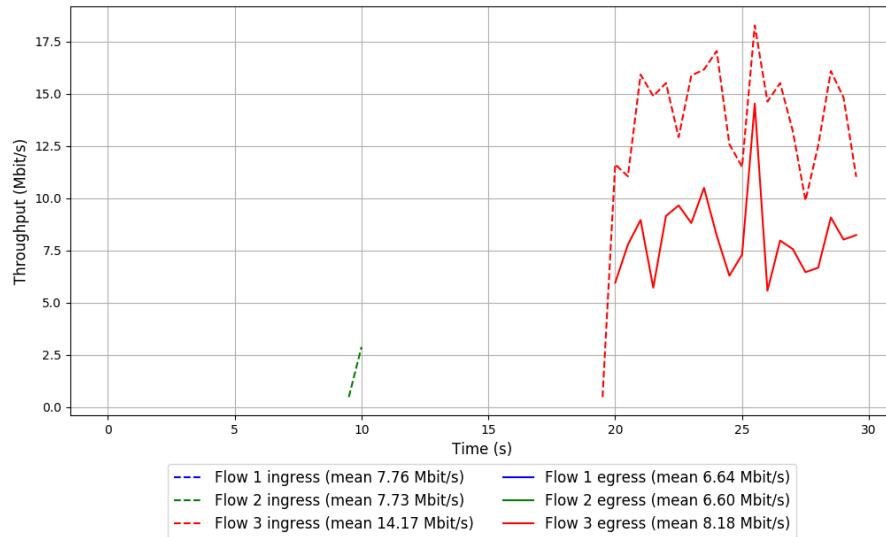
Run 8: Statistics of Saturator

Start at: 2017-08-21 08:26:51

End at: 2017-08-21 08:27:21

```
# Below is generated by plot.py at 2017-08-21 09:56:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.76 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 42.65%
-- Flow 1:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 54.235 ms
Loss rate: 57.14%
-- Flow 2:
Average throughput: 6.60 Mbit/s
95th percentile per-packet one-way delay: 54.237 ms
Loss rate: 57.14%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 54.086 ms
Loss rate: 42.30%
```

Run 8: Report of Saturator — Data Link



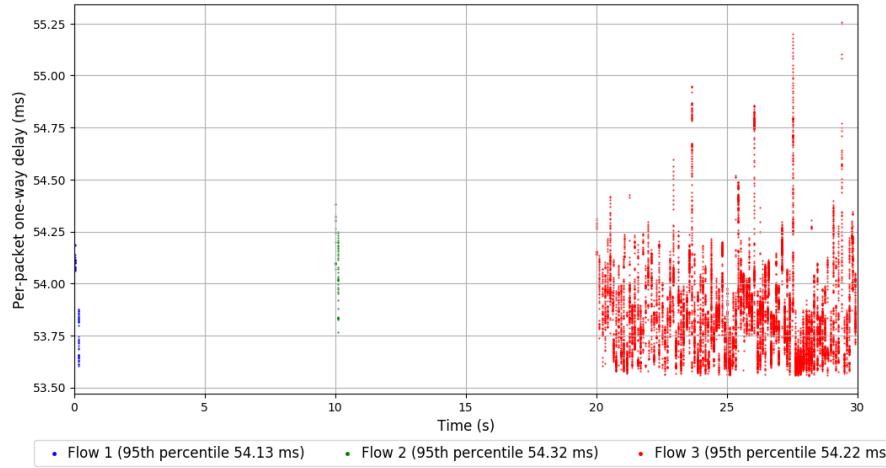
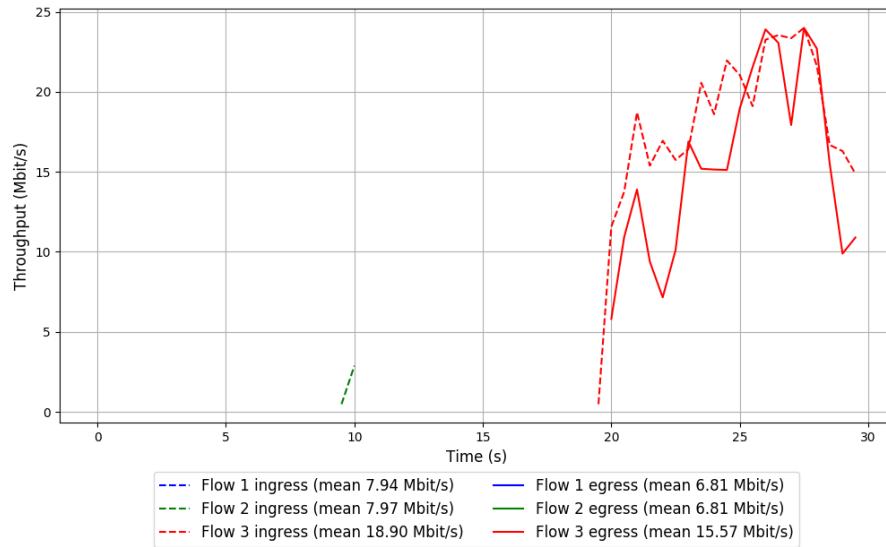
Run 9: Statistics of Saturator

Start at: 2017-08-21 08:37:39

End at: 2017-08-21 08:38:10

```
# Below is generated by plot.py at 2017-08-21 09:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.21 Mbit/s
95th percentile per-packet one-way delay: 54.218 ms
Loss rate: 18.32%
-- Flow 1:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 54.128 ms
Loss rate: 57.14%
-- Flow 2:
Average throughput: 6.81 Mbit/s
95th percentile per-packet one-way delay: 54.316 ms
Loss rate: 57.14%
-- Flow 3:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 54.216 ms
Loss rate: 17.63%
```

Run 9: Report of Saturator — Data Link

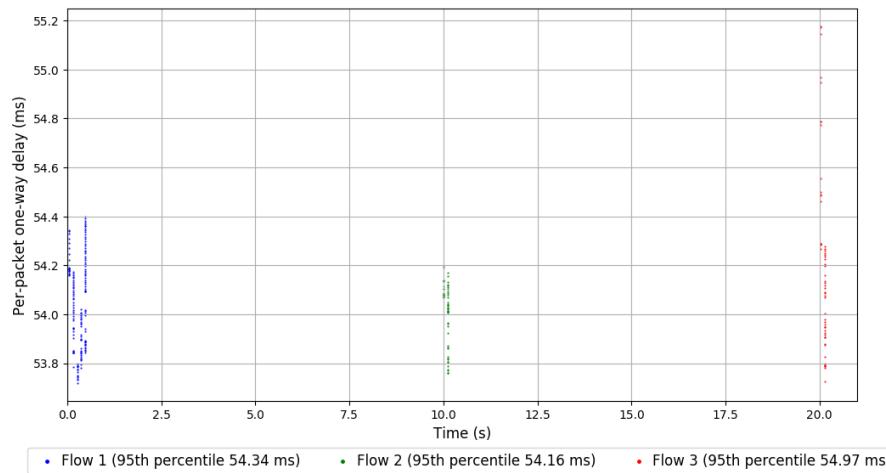
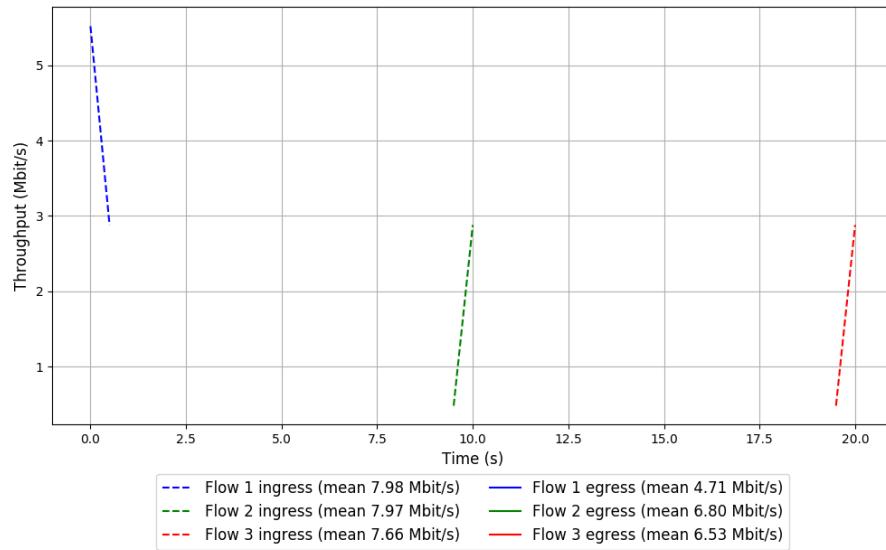


Run 10: Statistics of Saturator

Start at: 2017-08-21 08:48:31

End at: 2017-08-21 08:49:01

Run 10: Report of Saturator — Data Link

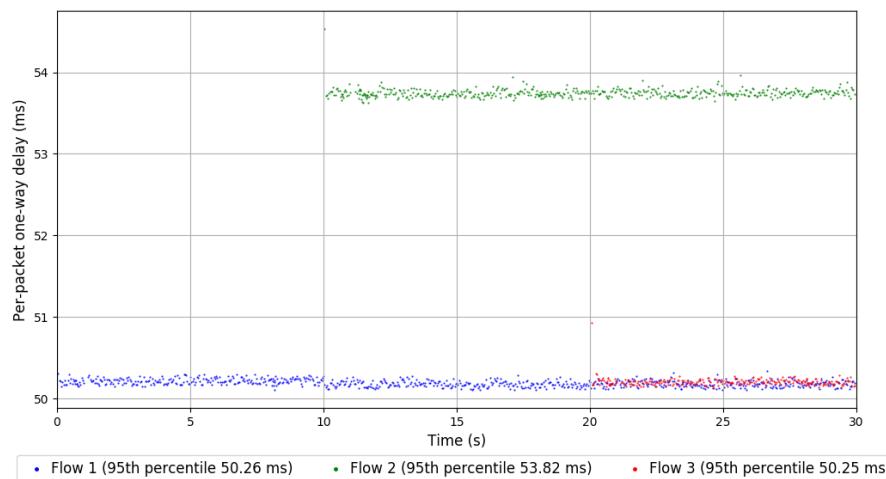
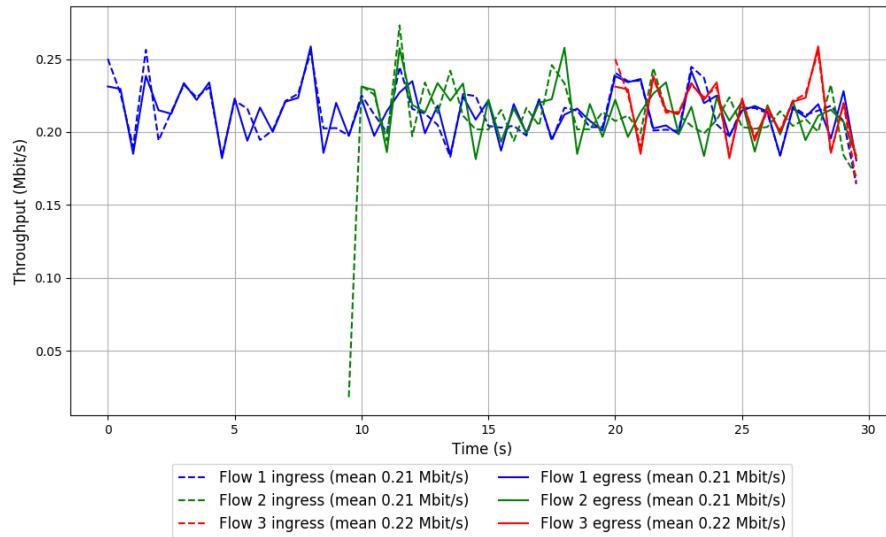


```
Run 1: Statistics of SCReAM

Start at: 2017-08-21 07:17:08
End at: 2017-08-21 07:17:38

# Below is generated by plot.py at 2017-08-21 09:56:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.788 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.824 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.254 ms
Loss rate: 0.00%
```

Run 1: Report of SCReAM — Data Link



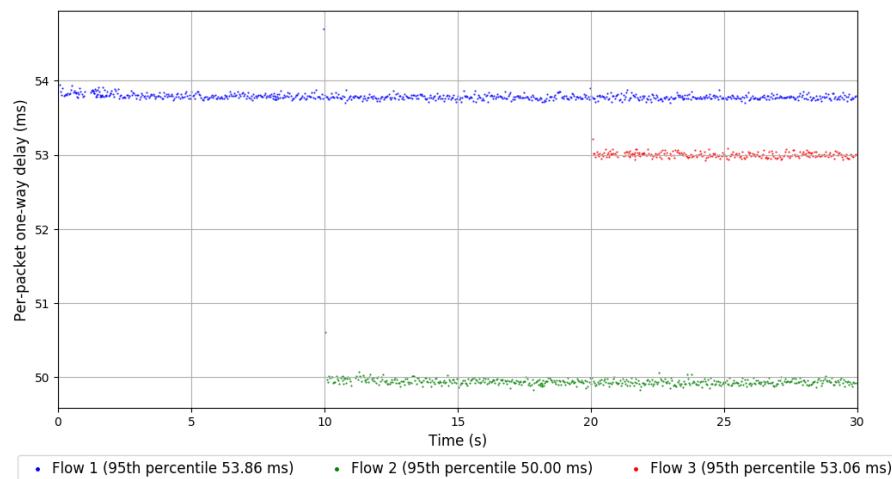
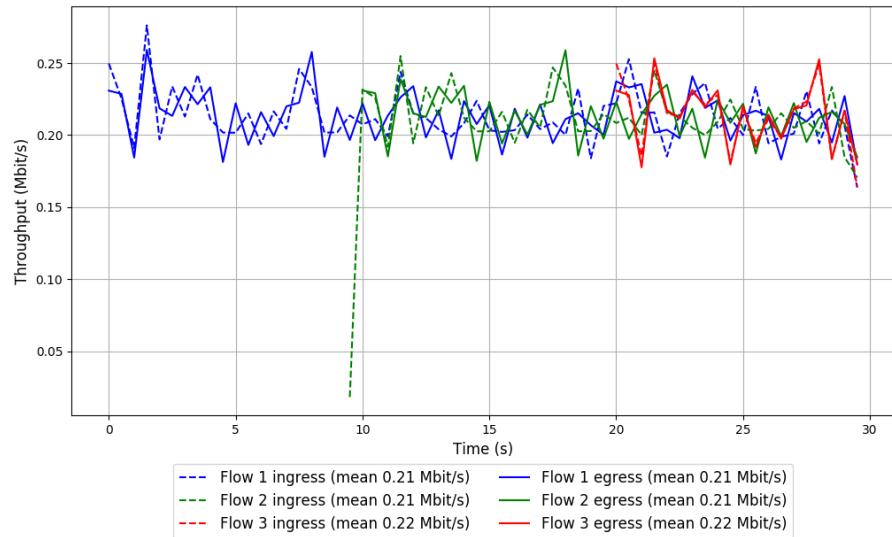
Run 2: Statistics of SCReAM

Start at: 2017-08-21 07:27:49

End at: 2017-08-21 07:28:19

```
# Below is generated by plot.py at 2017-08-21 09:56:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.857 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 49.998 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.063 ms
Loss rate: 0.00%
```

Run 2: Report of SCReAM — Data Link



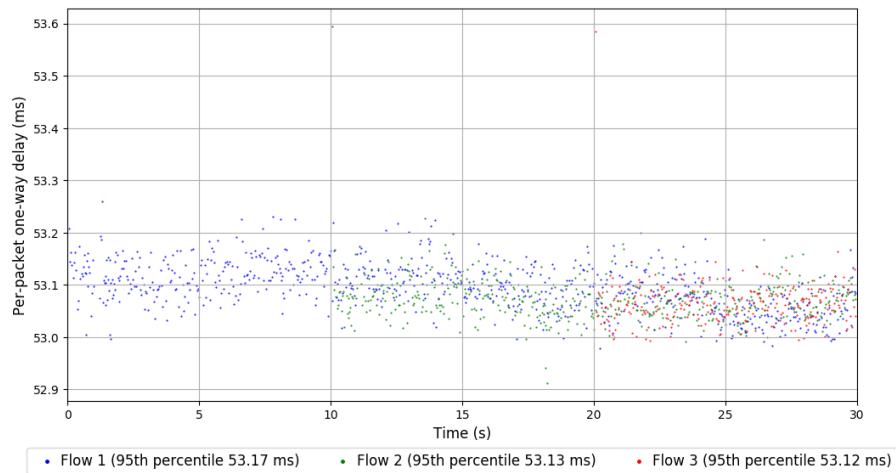
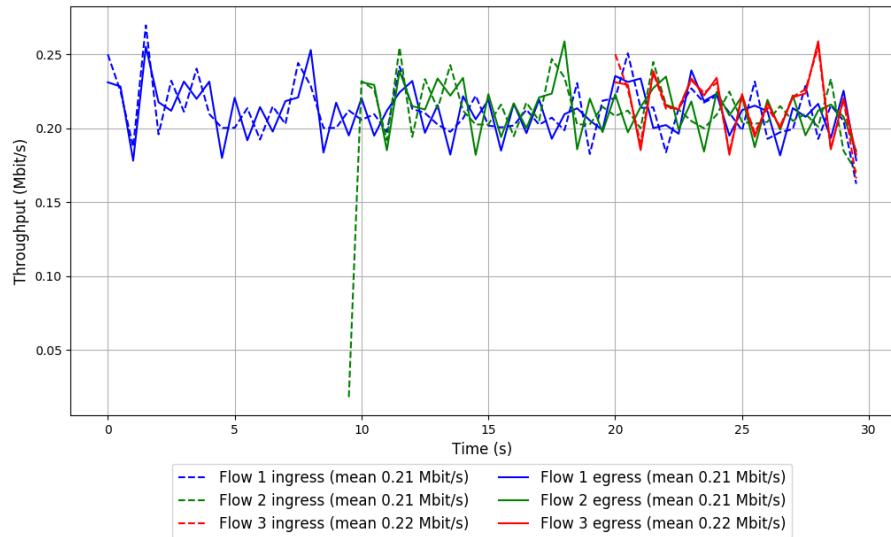
Run 3: Statistics of SCReAM

Start at: 2017-08-21 07:38:44

End at: 2017-08-21 07:39:14

```
# Below is generated by plot.py at 2017-08-21 09:56:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.160 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.168 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.135 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.117 ms
Loss rate: 0.00%
```

Run 3: Report of SCReAM — Data Link



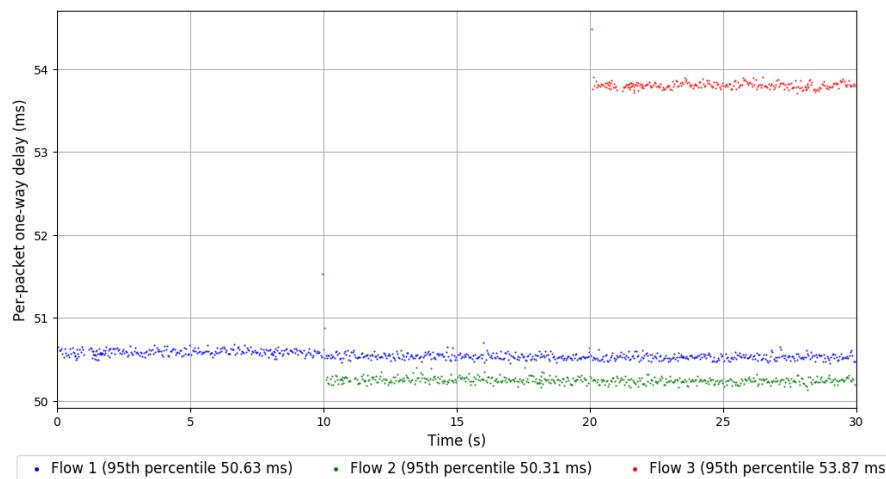
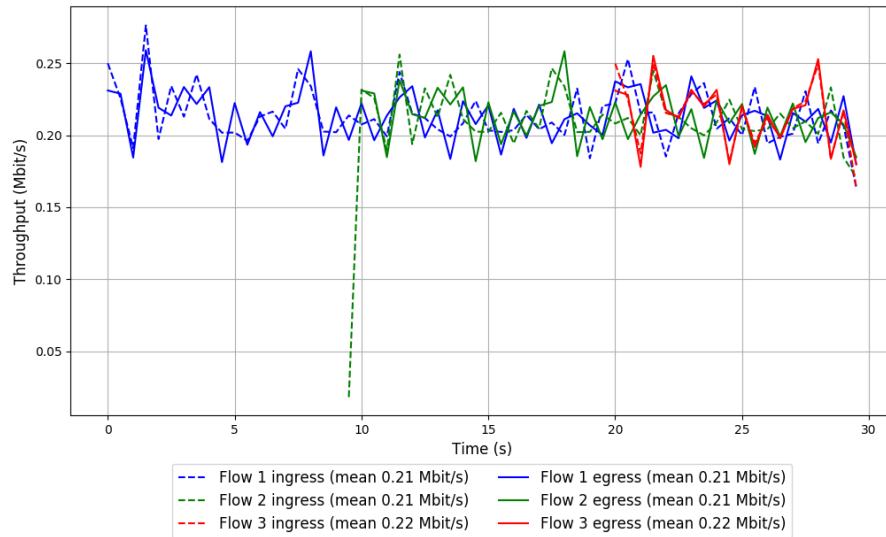
Run 4: Statistics of SCReAM

Start at: 2017-08-21 07:49:32

End at: 2017-08-21 07:50:02

```
# Below is generated by plot.py at 2017-08-21 09:56:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.823 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.634 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.309 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.868 ms
Loss rate: 0.00%
```

Run 4: Report of SCReAM — Data Link



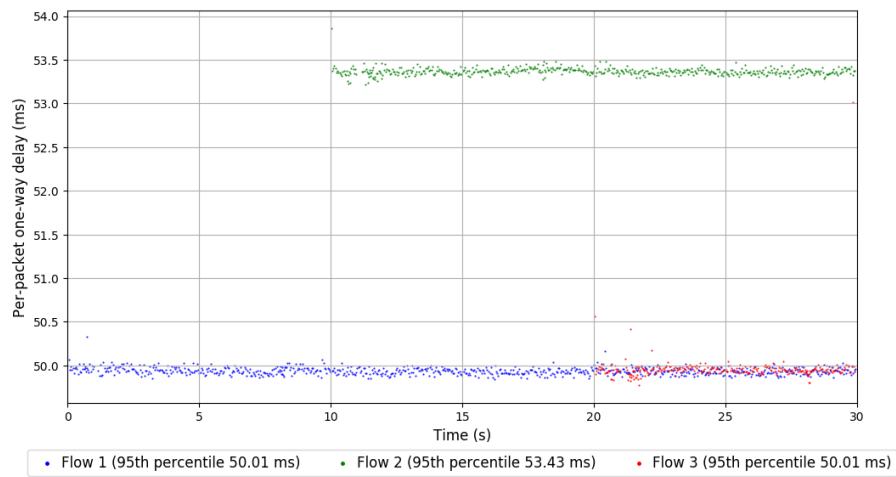
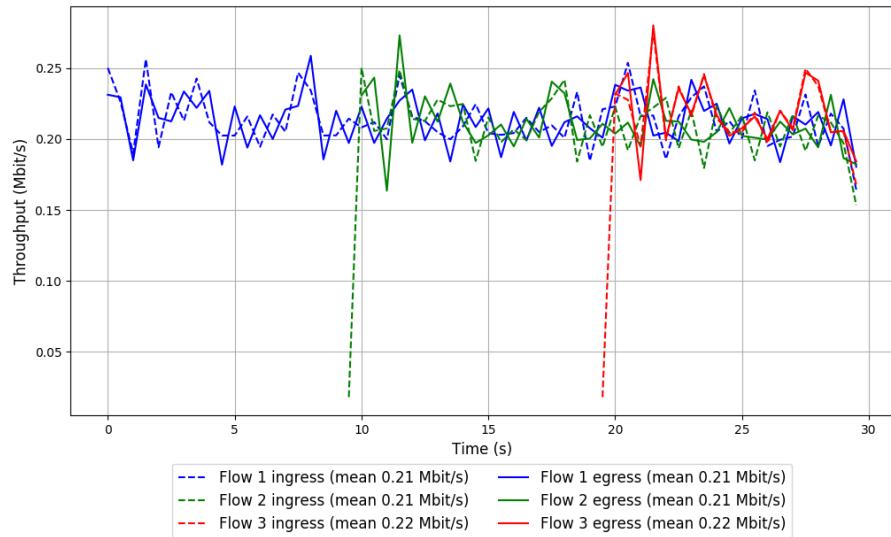
Run 5: Statistics of SCReAM

Start at: 2017-08-21 08:00:38

End at: 2017-08-21 08:01:08

```
# Below is generated by plot.py at 2017-08-21 09:56:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.005 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.432 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.010 ms
Loss rate: 0.00%
```

Run 5: Report of SCReAM — Data Link



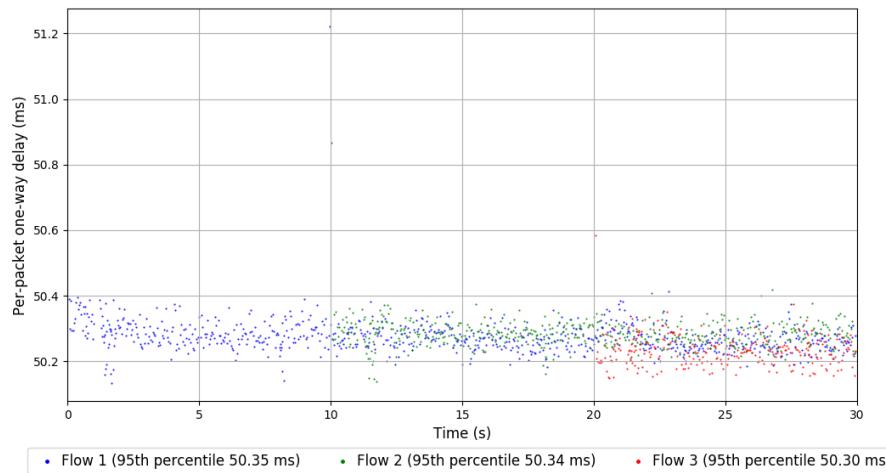
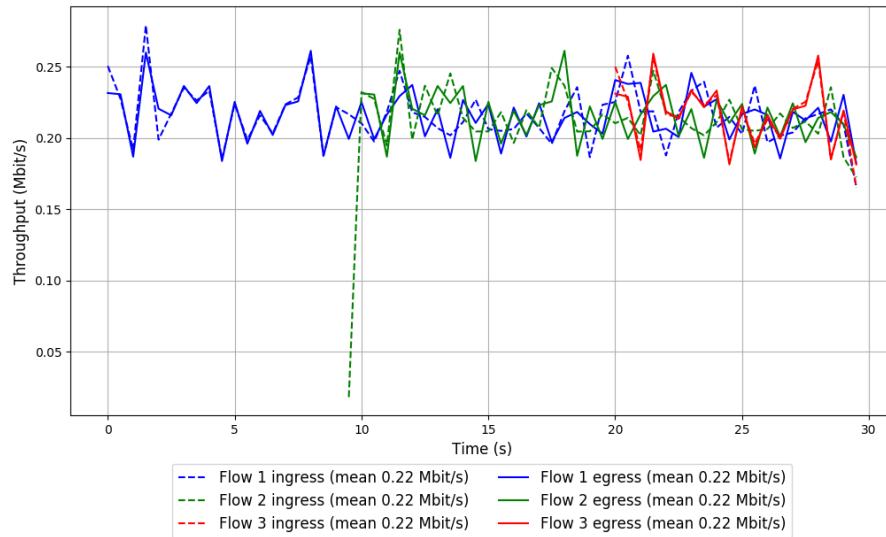
Run 6: Statistics of SCReAM

Start at: 2017-08-21 08:11:27

End at: 2017-08-21 08:11:57

```
# Below is generated by plot.py at 2017-08-21 09:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.353 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.342 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.304 ms
Loss rate: 0.00%
```

Run 6: Report of SCReAM — Data Link



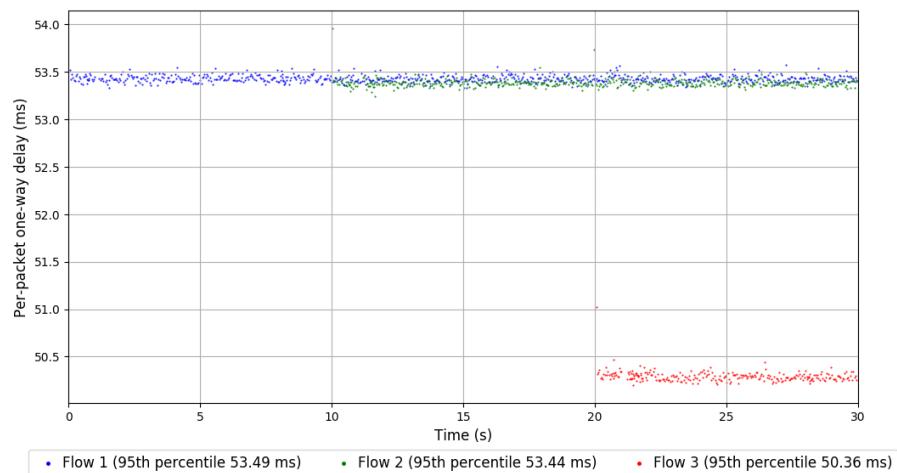
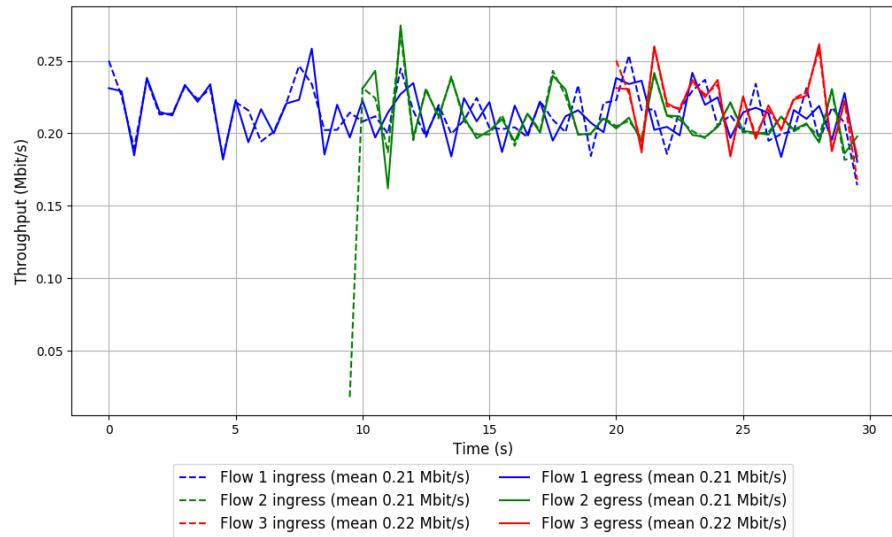
Run 7: Statistics of SCReAM

Start at: 2017-08-21 08:22:29

End at: 2017-08-21 08:22:59

```
# Below is generated by plot.py at 2017-08-21 09:56:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.476 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.486 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.361 ms
Loss rate: 0.00%
```

Run 7: Report of SCReAM — Data Link



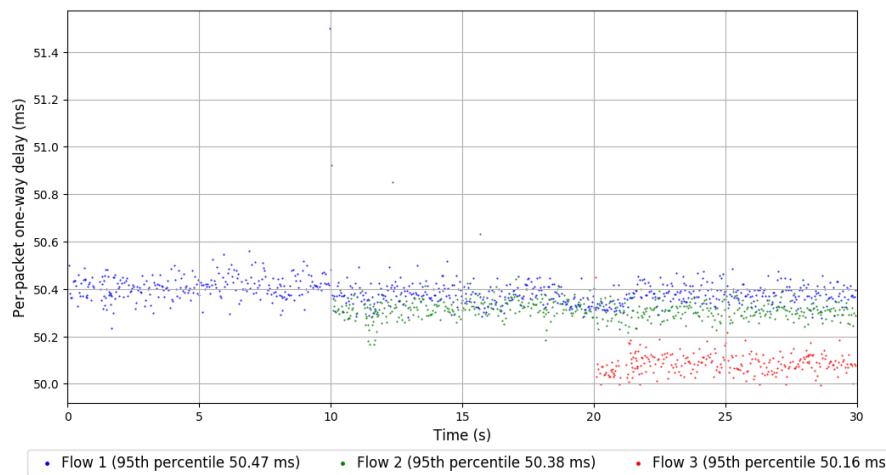
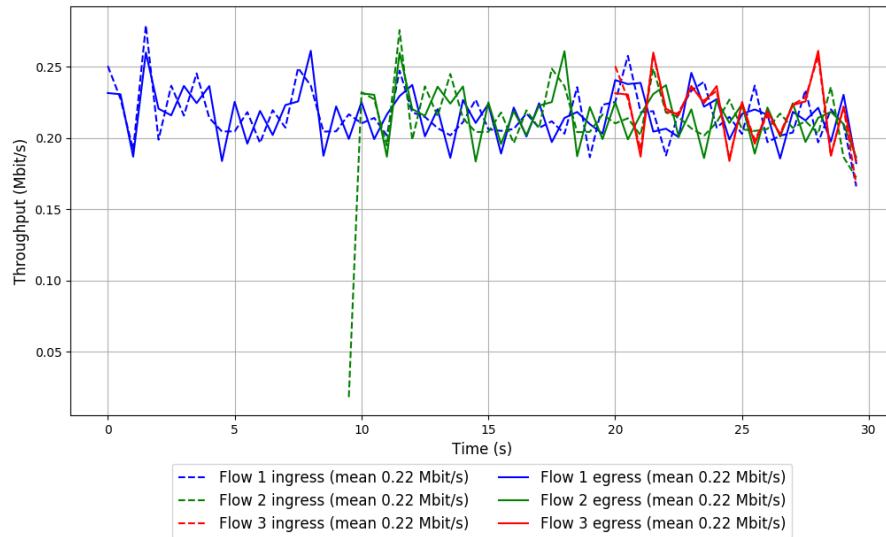
Run 8: Statistics of SCReAM

Start at: 2017-08-21 08:33:18

End at: 2017-08-21 08:33:48

```
# Below is generated by plot.py at 2017-08-21 09:56:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.449 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.466 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.377 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.155 ms
Loss rate: 0.00%
```

Run 8: Report of SCReAM — Data Link



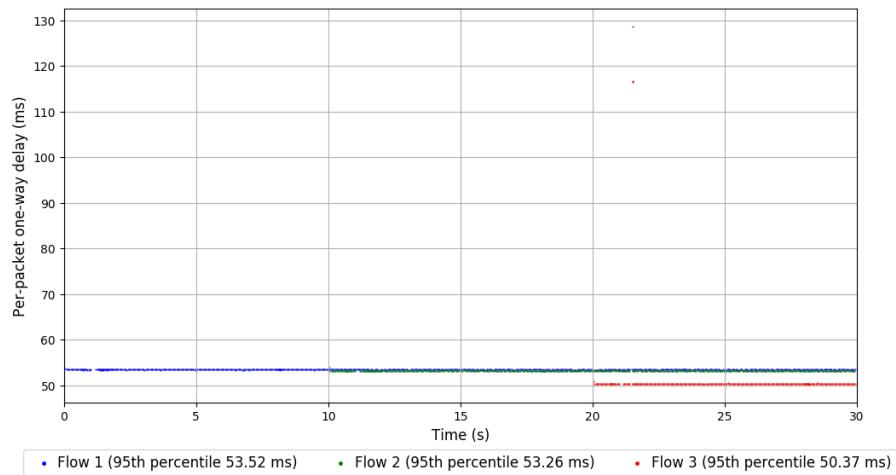
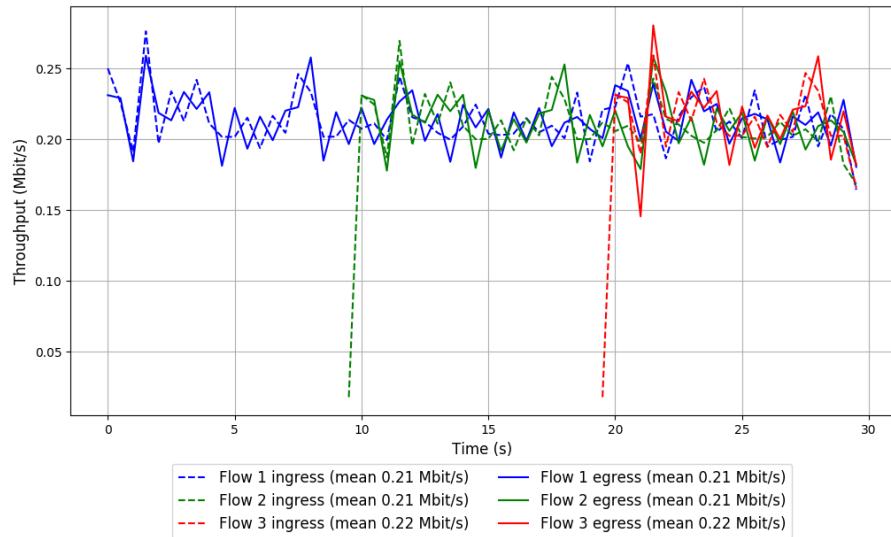
Run 9: Statistics of SCReAM

Start at: 2017-08-21 08:44:08

End at: 2017-08-21 08:44:38

```
# Below is generated by plot.py at 2017-08-21 09:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.504 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.255 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.371 ms
Loss rate: 0.00%
```

Run 9: Report of SCReAM — Data Link



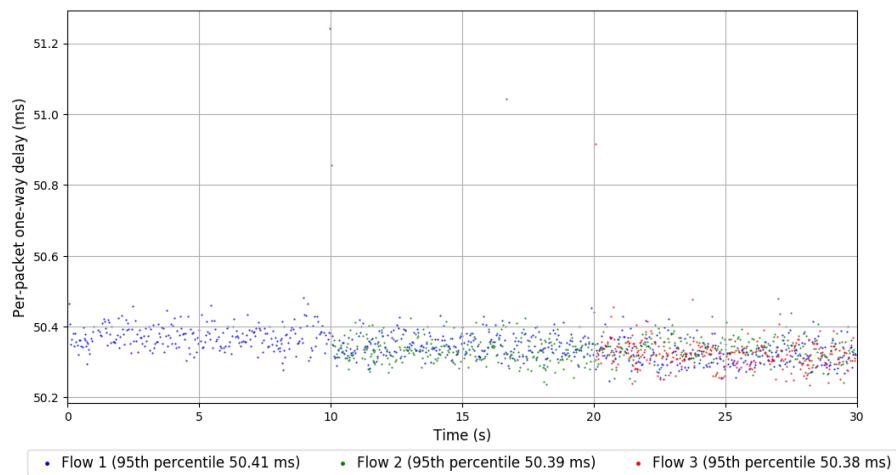
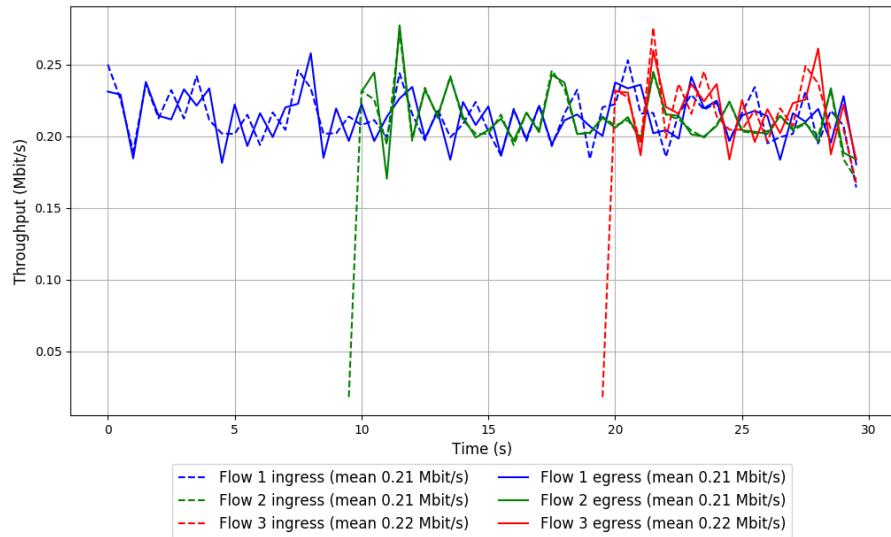
Run 10: Statistics of SCReAM

Start at: 2017-08-21 08:54:54

End at: 2017-08-21 08:55:24

```
# Below is generated by plot.py at 2017-08-21 09:56:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 50.405 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.414 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 50.394 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.382 ms
Loss rate: 0.00%
```

Run 10: Report of SCReAM — Data Link



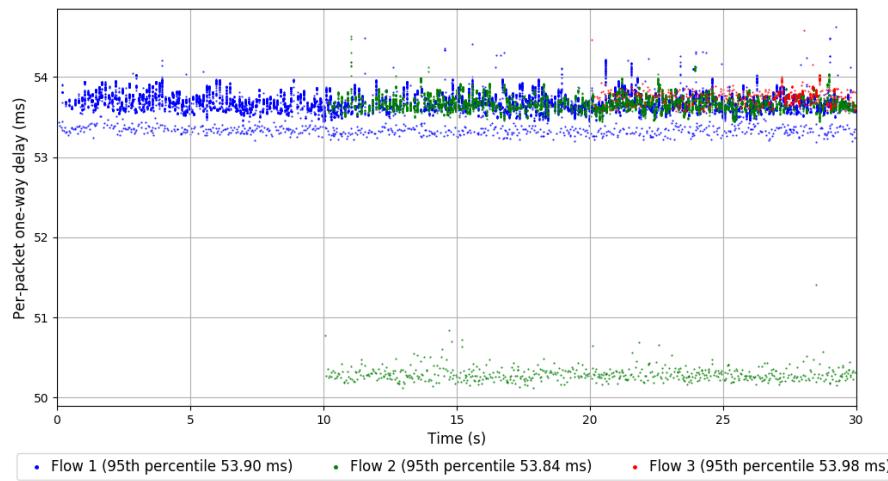
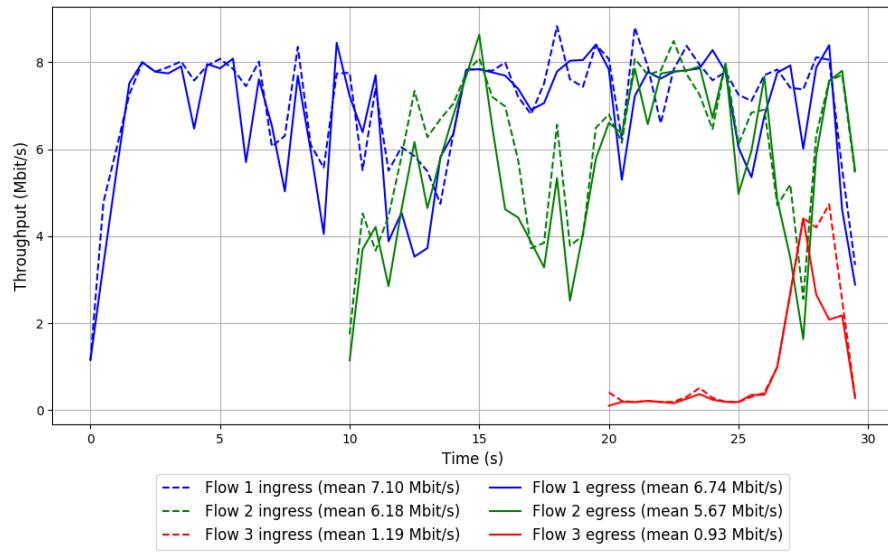
Run 1: Statistics of Sprout

Start at: 2017-08-21 07:13:30

End at: 2017-08-21 07:14:00

```
# Below is generated by plot.py at 2017-08-21 09:56:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.82 Mbit/s
95th percentile per-packet one-way delay: 53.883 ms
Loss rate: 6.78%
-- Flow 1:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 53.897 ms
Loss rate: 5.08%
-- Flow 2:
Average throughput: 5.67 Mbit/s
95th percentile per-packet one-way delay: 53.836 ms
Loss rate: 8.27%
-- Flow 3:
Average throughput: 0.93 Mbit/s
95th percentile per-packet one-way delay: 53.981 ms
Loss rate: 22.04%
```

Run 1: Report of Sprout — Data Link



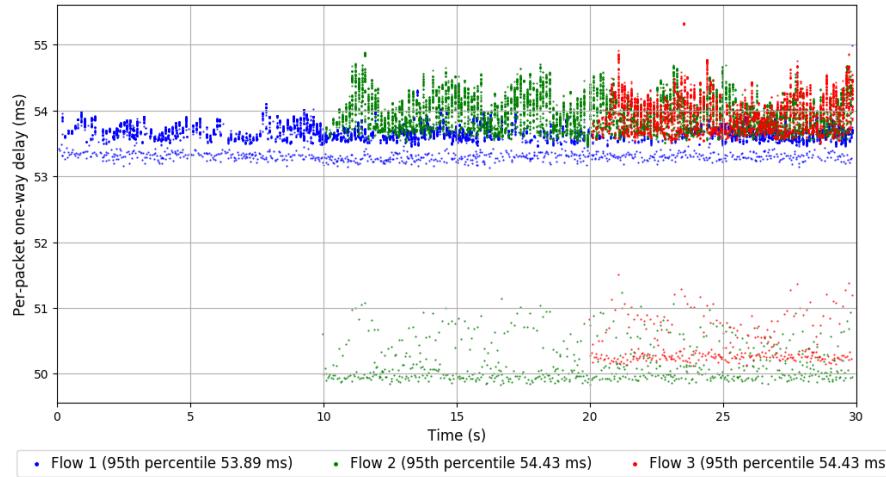
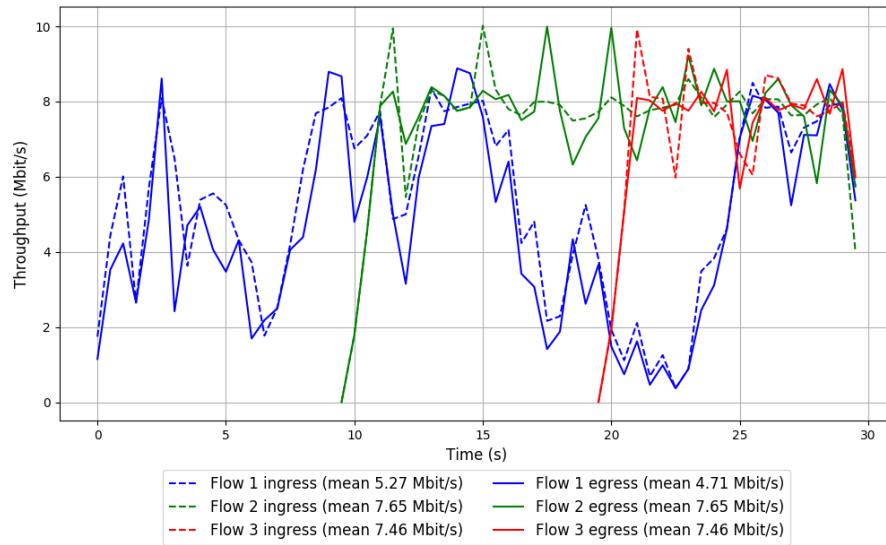
Run 2: Statistics of Sprout

Start at: 2017-08-21 07:24:11

End at: 2017-08-21 07:24:41

```
# Below is generated by plot.py at 2017-08-21 09:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.28 Mbit/s
95th percentile per-packet one-way delay: 54.355 ms
Loss rate: 4.35%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 53.893 ms
Loss rate: 10.59%
-- Flow 2:
Average throughput: 7.65 Mbit/s
95th percentile per-packet one-way delay: 54.429 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 54.428 ms
Loss rate: 0.00%
```

Run 2: Report of Sprout — Data Link



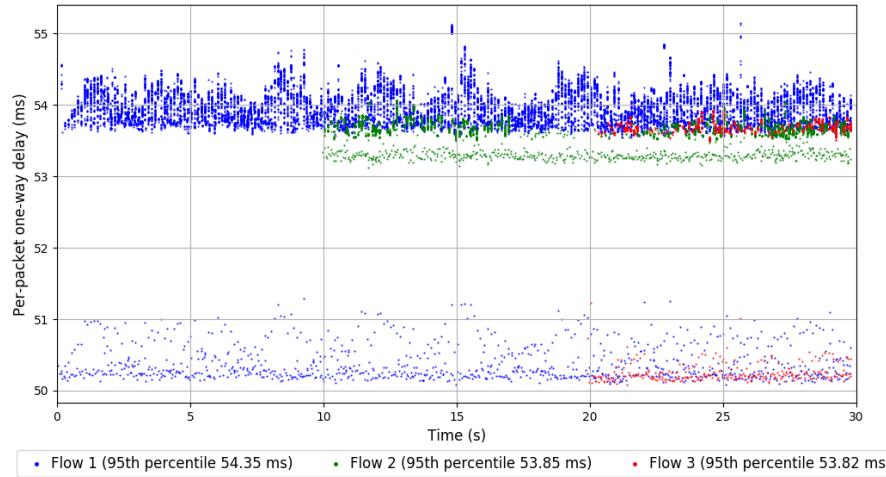
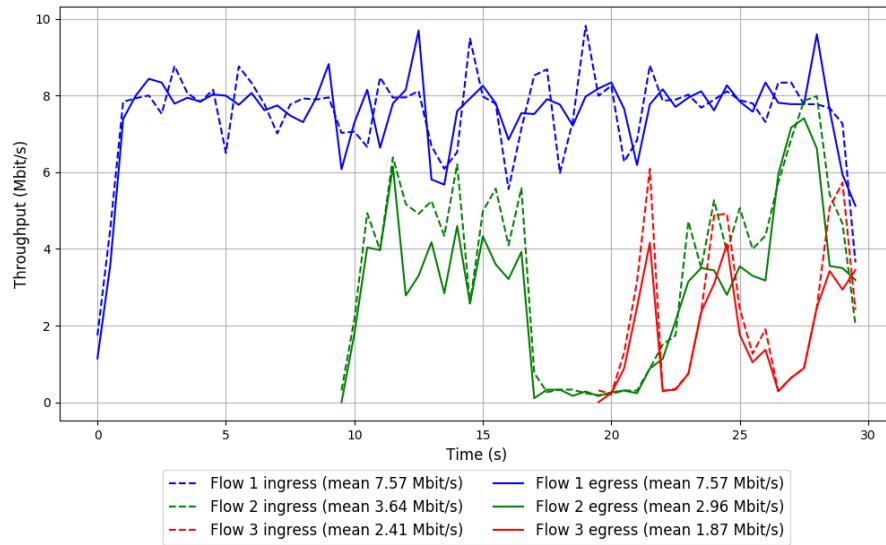
Run 3: Statistics of Sprout

Start at: 2017-08-21 07:34:59

End at: 2017-08-21 07:35:29

```
# Below is generated by plot.py at 2017-08-21 09:56:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 54.309 ms
Loss rate: 5.91%
-- Flow 1:
Average throughput: 7.57 Mbit/s
95th percentile per-packet one-way delay: 54.347 ms
Loss rate: 0.07%
-- Flow 2:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 53.846 ms
Loss rate: 18.63%
-- Flow 3:
Average throughput: 1.87 Mbit/s
95th percentile per-packet one-way delay: 53.822 ms
Loss rate: 22.47%
```

Run 3: Report of Sprout — Data Link



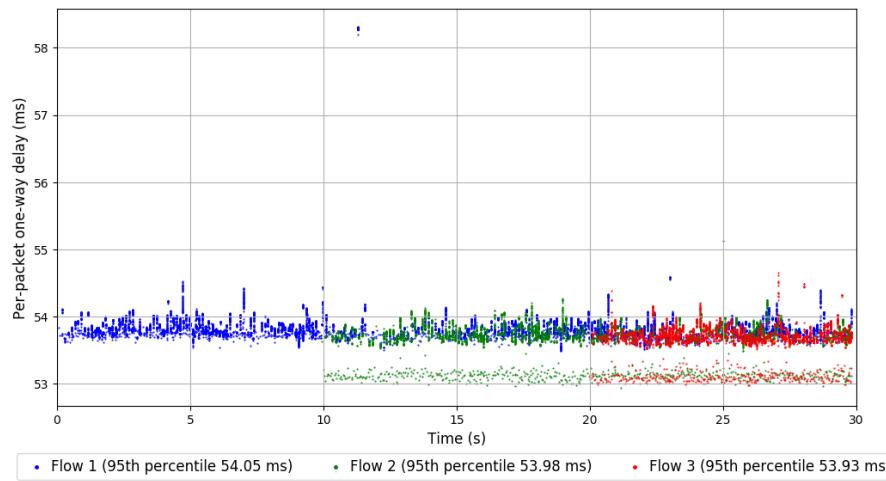
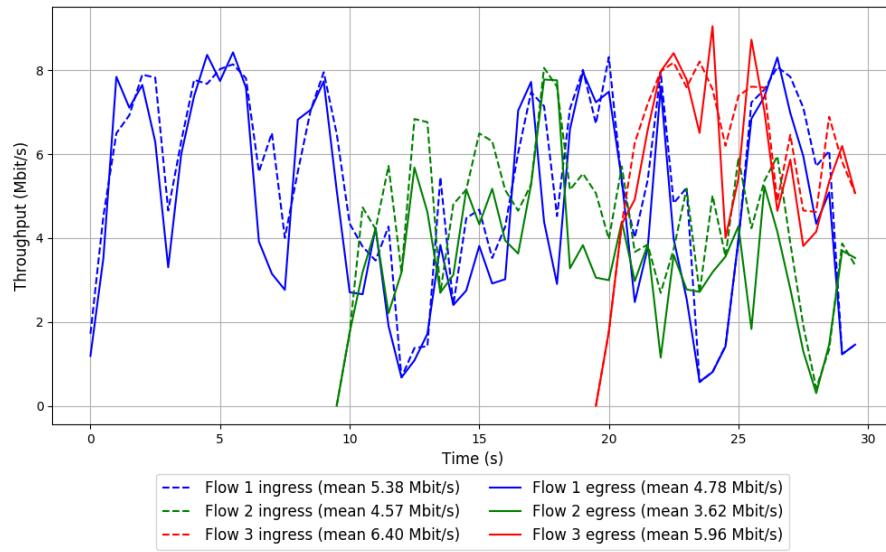
Run 4: Statistics of Sprout

Start at: 2017-08-21 07:46:07

End at: 2017-08-21 07:46:37

```
# Below is generated by plot.py at 2017-08-21 09:56:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.16 Mbit/s
95th percentile per-packet one-way delay: 54.017 ms
Loss rate: 13.14%
-- Flow 1:
Average throughput: 4.78 Mbit/s
95th percentile per-packet one-way delay: 54.051 ms
Loss rate: 11.24%
-- Flow 2:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 53.984 ms
Loss rate: 20.84%
-- Flow 3:
Average throughput: 5.96 Mbit/s
95th percentile per-packet one-way delay: 53.930 ms
Loss rate: 6.87%
```

Run 4: Report of Sprout — Data Link



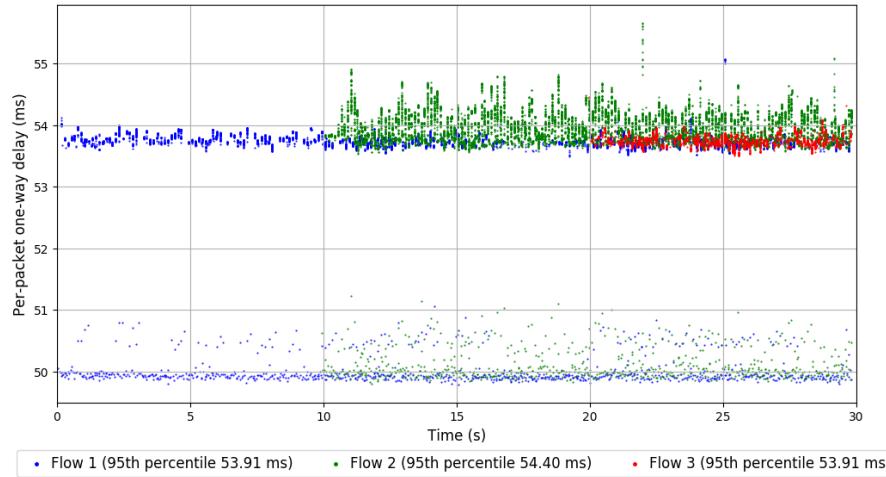
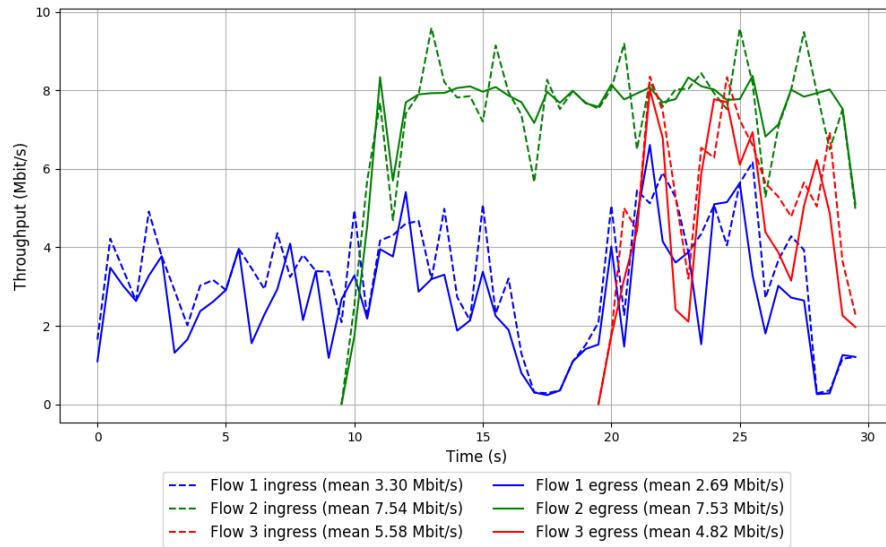
Run 5: Statistics of Sprout

Start at: 2017-08-21 07:56:50

End at: 2017-08-21 07:57:20

```
# Below is generated by plot.py at 2017-08-21 09:56:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.31 Mbit/s
95th percentile per-packet one-way delay: 54.296 ms
Loss rate: 8.51%
-- Flow 1:
Average throughput: 2.69 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 18.64%
-- Flow 2:
Average throughput: 7.53 Mbit/s
95th percentile per-packet one-way delay: 54.395 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.82 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 13.61%
```

Run 5: Report of Sprout — Data Link



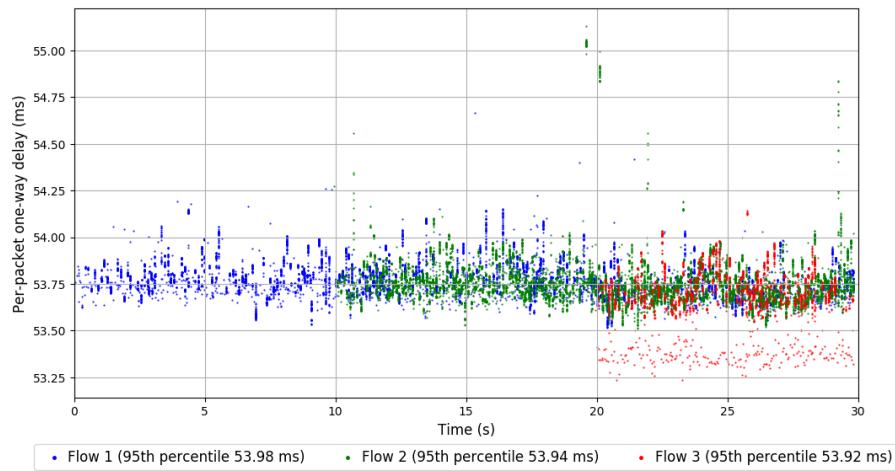
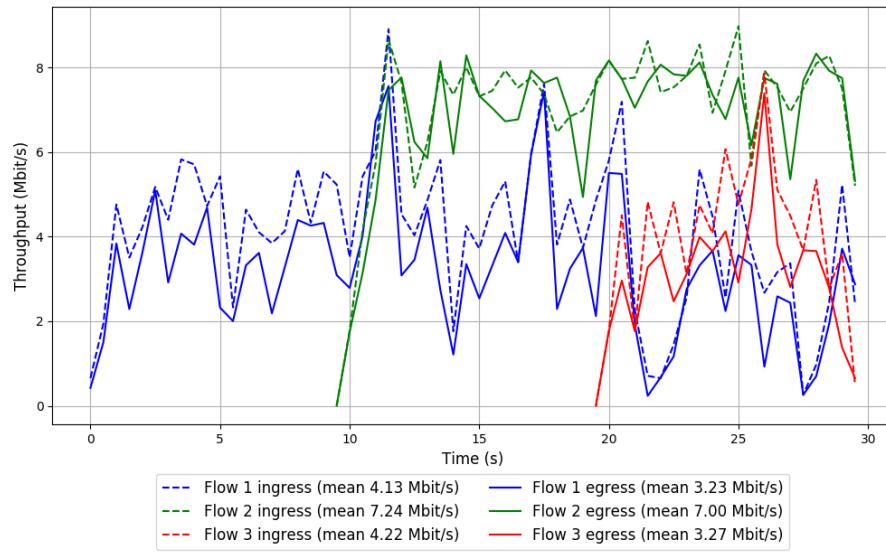
Run 6: Statistics of Sprout

Start at: 2017-08-21 08:07:39

End at: 2017-08-21 08:08:09

```
# Below is generated by plot.py at 2017-08-21 09:57:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.98 Mbit/s
95th percentile per-packet one-way delay: 53.949 ms
Loss rate: 13.30%
-- Flow 1:
Average throughput: 3.23 Mbit/s
95th percentile per-packet one-way delay: 53.976 ms
Loss rate: 21.83%
-- Flow 2:
Average throughput: 7.00 Mbit/s
95th percentile per-packet one-way delay: 53.936 ms
Loss rate: 3.34%
-- Flow 3:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 53.921 ms
Loss rate: 22.60%
```

Run 6: Report of Sprout — Data Link



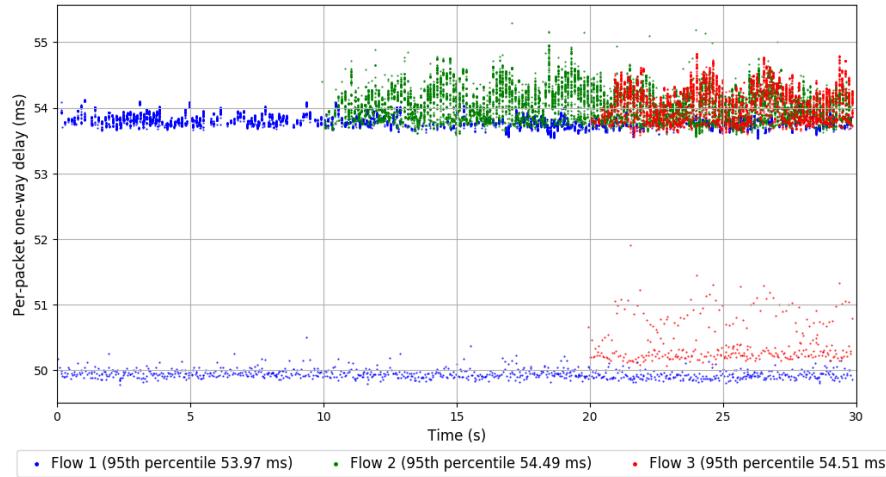
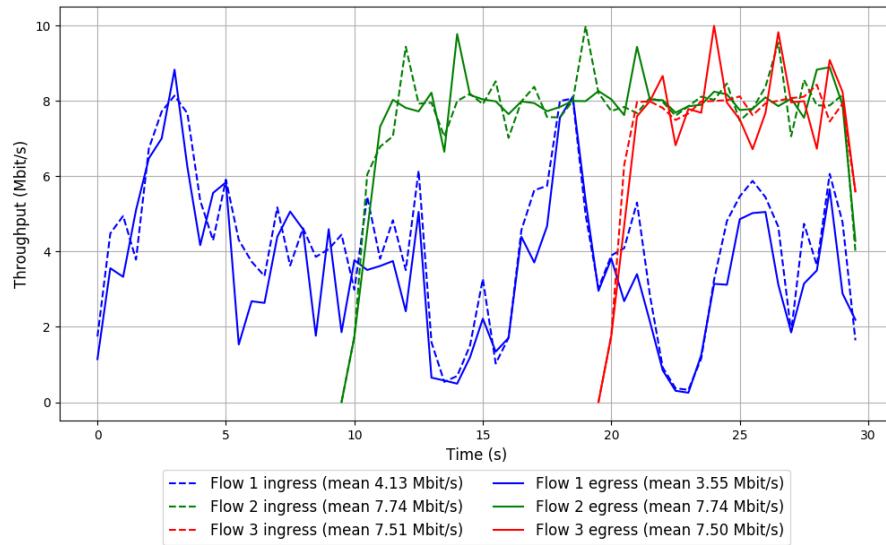
Run 7: Statistics of Sprout

Start at: 2017-08-21 08:18:45

End at: 2017-08-21 08:19:15

```
# Below is generated by plot.py at 2017-08-21 09:57:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.20 Mbit/s
95th percentile per-packet one-way delay: 54.448 ms
Loss rate: 4.92%
-- Flow 1:
Average throughput: 3.55 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 14.03%
-- Flow 2:
Average throughput: 7.74 Mbit/s
95th percentile per-packet one-way delay: 54.493 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 54.511 ms
Loss rate: 0.00%
```

Run 7: Report of Sprout — Data Link



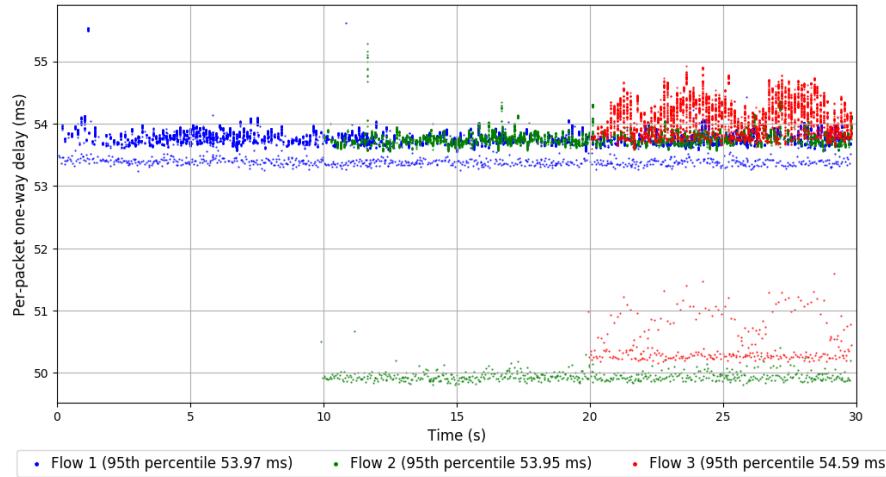
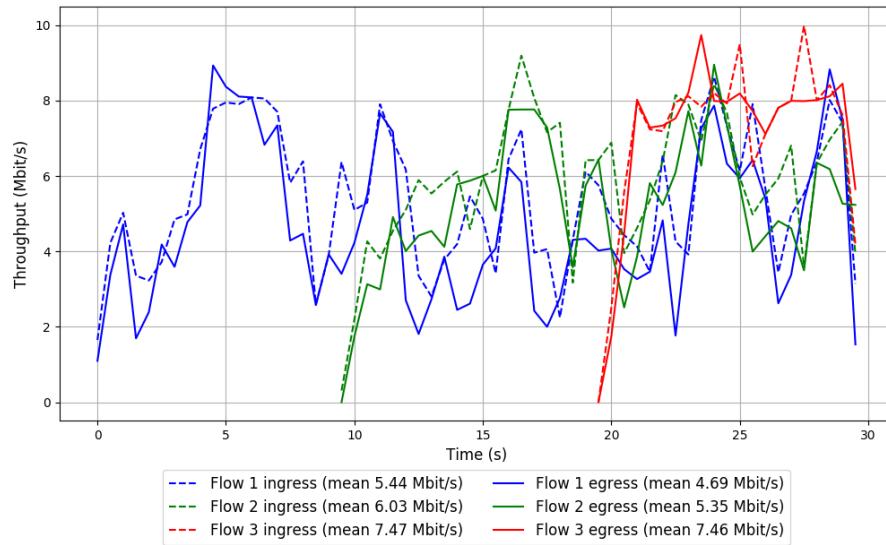
Run 8: Statistics of Sprout

Start at: 2017-08-21 08:29:37

End at: 2017-08-21 08:30:07

```
# Below is generated by plot.py at 2017-08-21 09:57:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 10.73 Mbit/s
95th percentile per-packet one-way delay: 54.343 ms
Loss rate: 10.15%
-- Flow 1:
Average throughput: 4.69 Mbit/s
95th percentile per-packet one-way delay: 53.966 ms
Loss rate: 13.89%
-- Flow 2:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 53.952 ms
Loss rate: 11.35%
-- Flow 3:
Average throughput: 7.46 Mbit/s
95th percentile per-packet one-way delay: 54.589 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



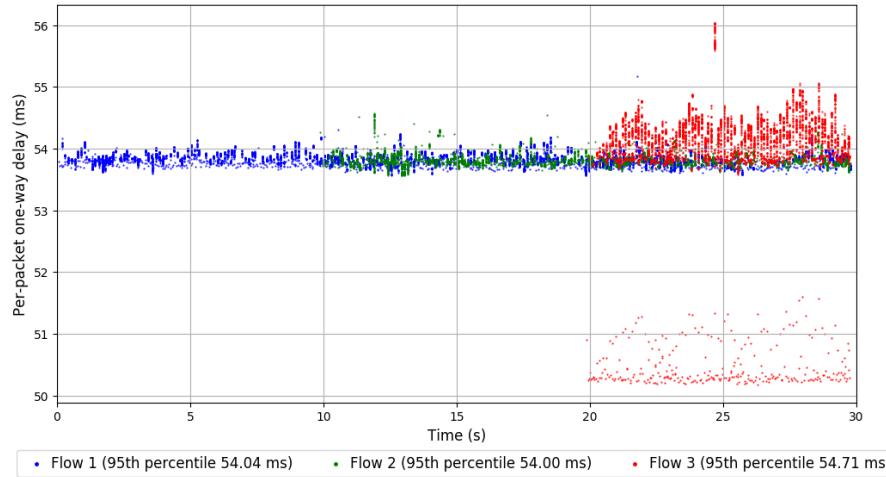
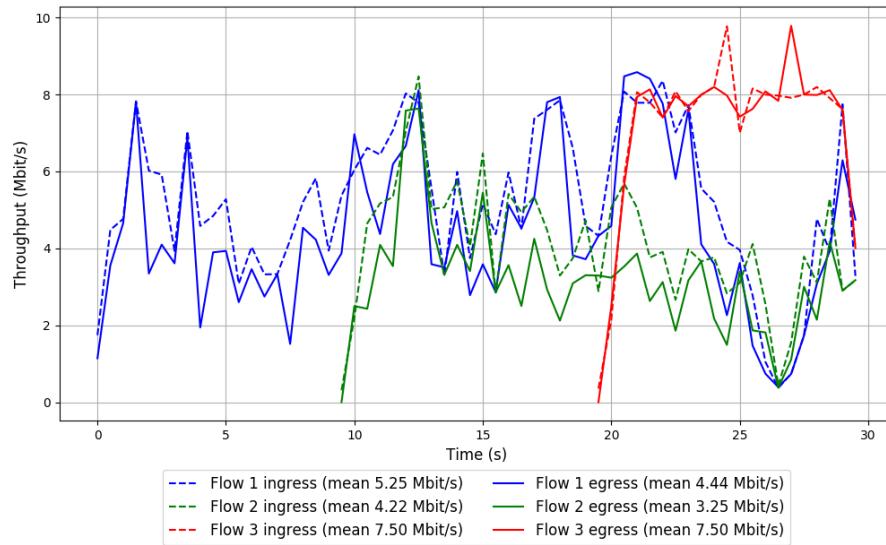
Run 9: Statistics of Sprout

Start at: 2017-08-21 08:40:27

End at: 2017-08-21 08:40:57

```
# Below is generated by plot.py at 2017-08-21 09:57:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.11 Mbit/s
95th percentile per-packet one-way delay: 54.429 ms
Loss rate: 13.77%
-- Flow 1:
Average throughput: 4.44 Mbit/s
95th percentile per-packet one-way delay: 54.037 ms
Loss rate: 15.40%
-- Flow 2:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 53.999 ms
Loss rate: 22.83%
-- Flow 3:
Average throughput: 7.50 Mbit/s
95th percentile per-packet one-way delay: 54.709 ms
Loss rate: 0.08%
```

Run 9: Report of Sprout — Data Link



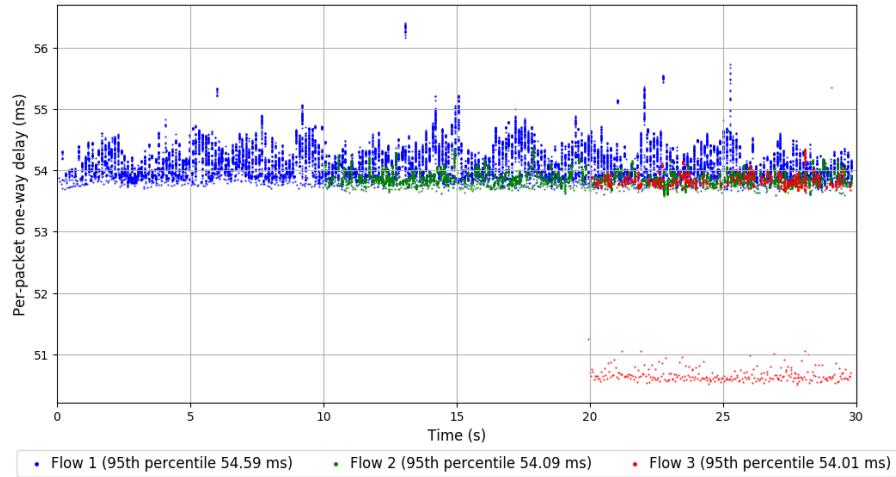
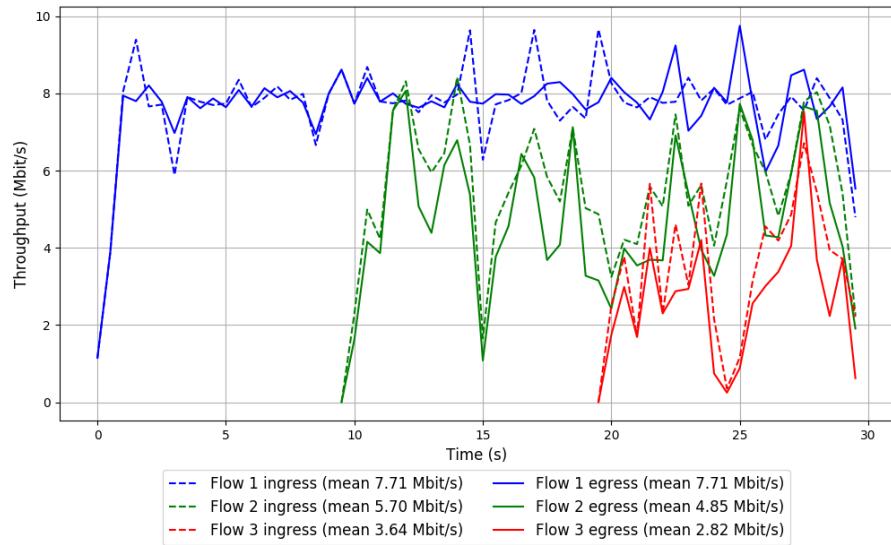
Run 10: Statistics of Sprout

Start at: 2017-08-21 08:51:19

End at: 2017-08-21 08:51:49

```
# Below is generated by plot.py at 2017-08-21 09:57:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.87 Mbit/s
95th percentile per-packet one-way delay: 54.512 ms
Loss rate: 6.61%
-- Flow 1:
Average throughput: 7.71 Mbit/s
95th percentile per-packet one-way delay: 54.591 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 14.88%
-- Flow 3:
Average throughput: 2.82 Mbit/s
95th percentile per-packet one-way delay: 54.007 ms
Loss rate: 22.70%
```

Run 10: Report of Sprout — Data Link

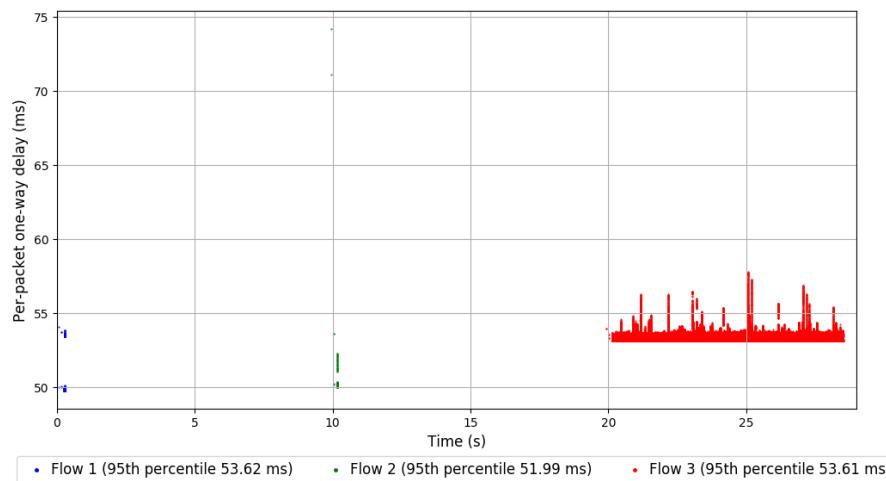
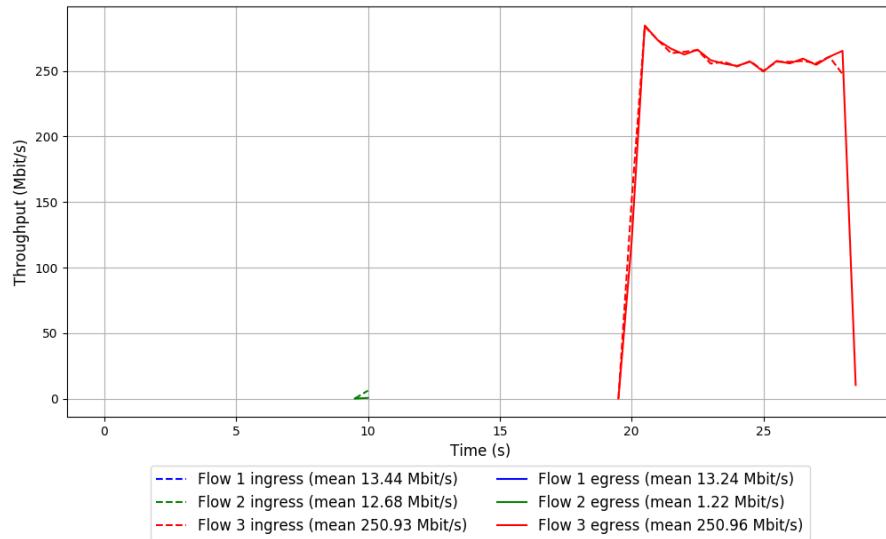


```
Run 1: Statistics of TaoVA-100x

Start at: 2017-08-21 07:19:54
End at: 2017-08-21 07:20:24

# Below is generated by plot.py at 2017-08-21 09:57:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 75.85 Mbit/s
95th percentile per-packet one-way delay: 53.607 ms
Loss rate: 0.13%
-- Flow 1:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 53.624 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 51.989 ms
Loss rate: 91.17%
-- Flow 3:
Average throughput: 250.96 Mbit/s
95th percentile per-packet one-way delay: 53.607 ms
Loss rate: 0.00%
```

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

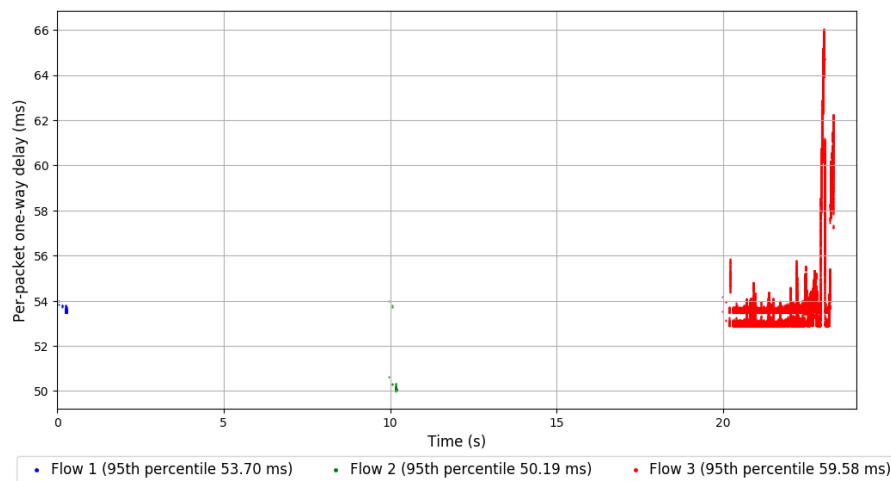
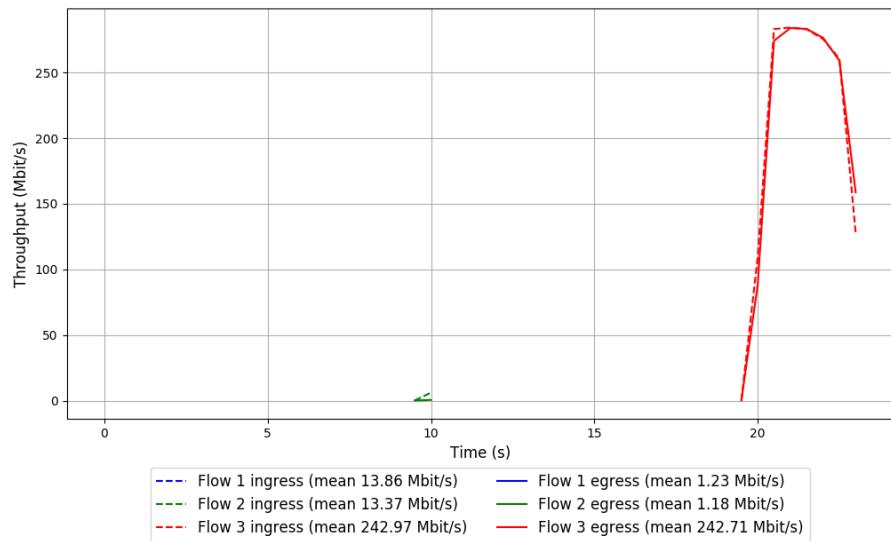


Run 2: Statistics of TaoVA-100x

Start at: 2017-08-21 07:30:42

End at: 2017-08-21 07:31:12

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



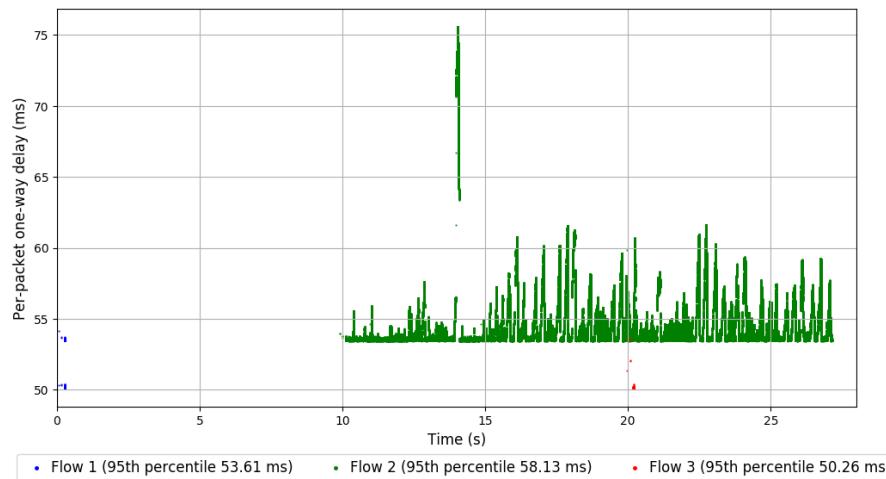
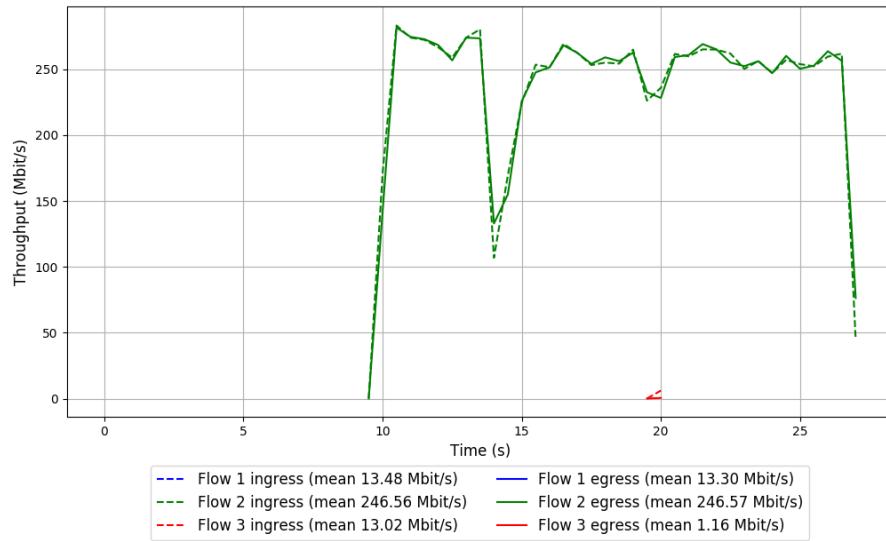
Run 3: Statistics of TaoVA-100x

Start at: 2017-08-21 07:41:35

End at: 2017-08-21 07:42:05

```
# Below is generated by plot.py at 2017-08-21 09:58:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 157.07 Mbit/s
95th percentile per-packet one-way delay: 58.128 ms
Loss rate: 0.07%
-- Flow 1:
Average throughput: 13.30 Mbit/s
95th percentile per-packet one-way delay: 53.612 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 246.57 Mbit/s
95th percentile per-packet one-way delay: 58.130 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 1.16 Mbit/s
95th percentile per-packet one-way delay: 50.260 ms
Loss rate: 91.17%
```

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

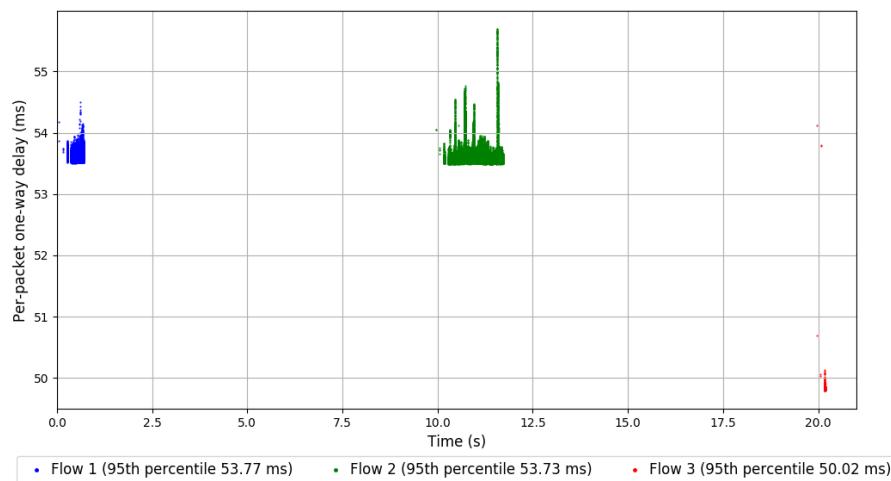
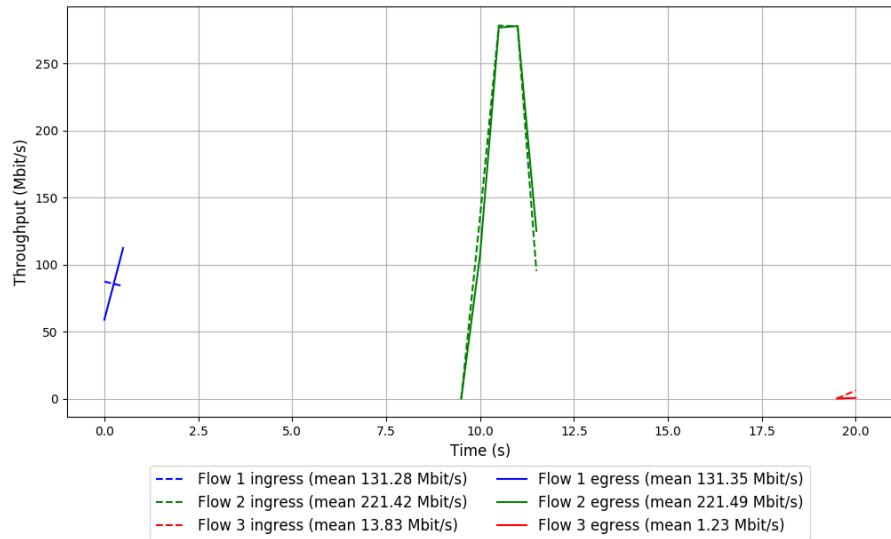


Run 4: Statistics of TaoVA-100x

Start at: 2017-08-21 07:52:25

End at: 2017-08-21 07:52:55

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

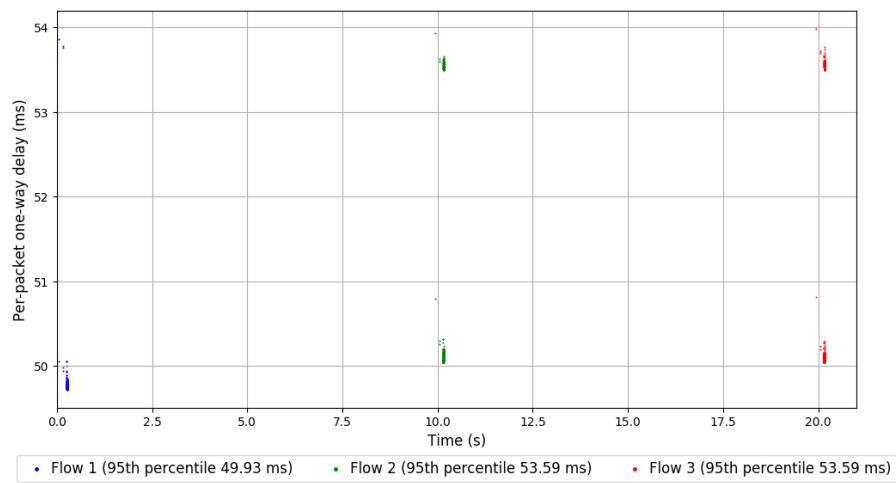
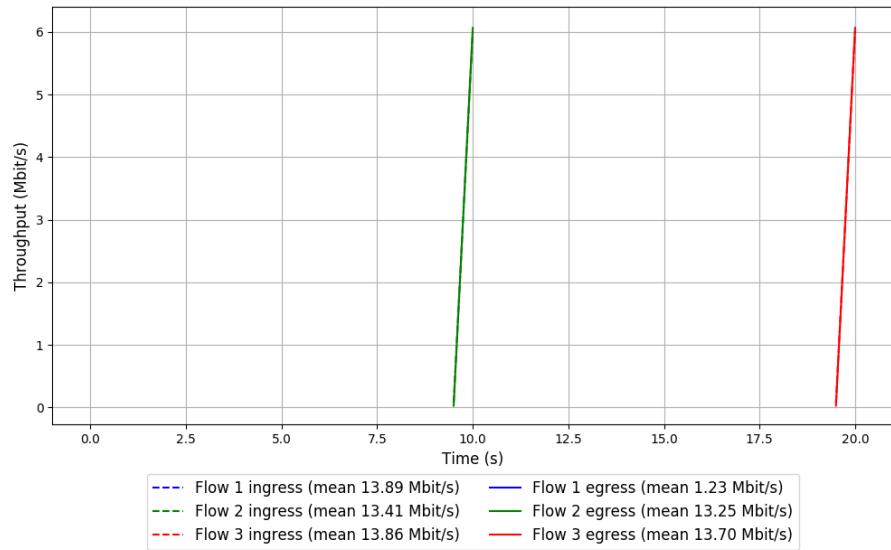


Run 5: Statistics of TaoVA-100x

Start at: 2017-08-21 08:03:25

End at: 2017-08-21 08:03:55

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

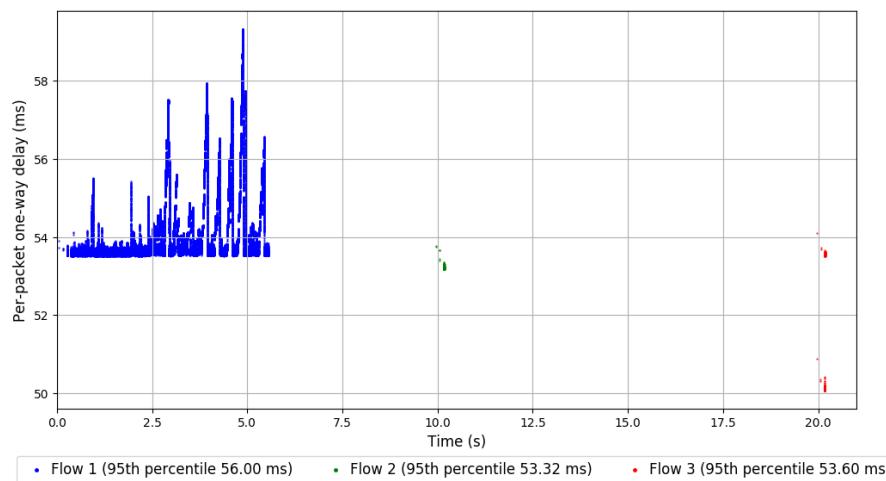
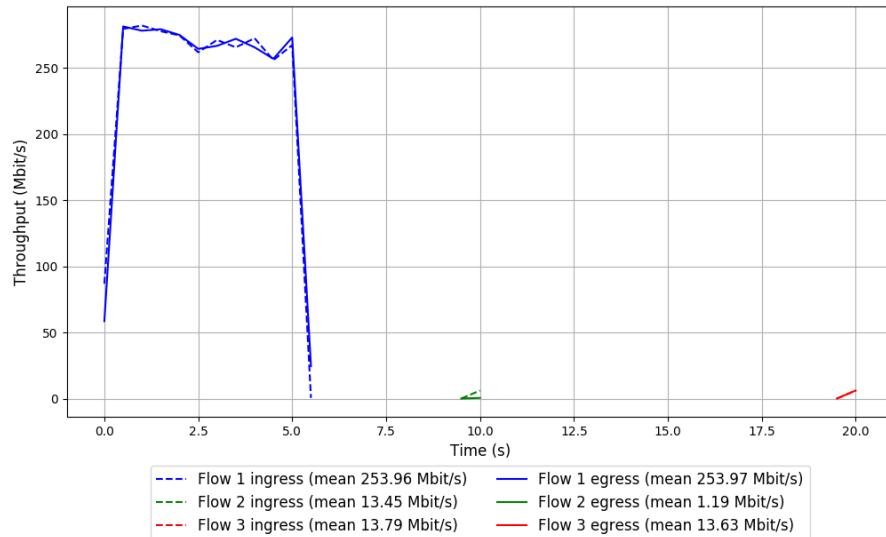


Run 6: Statistics of TaoVA-100x

Start at: 2017-08-21 08:14:21

End at: 2017-08-21 08:14:51

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

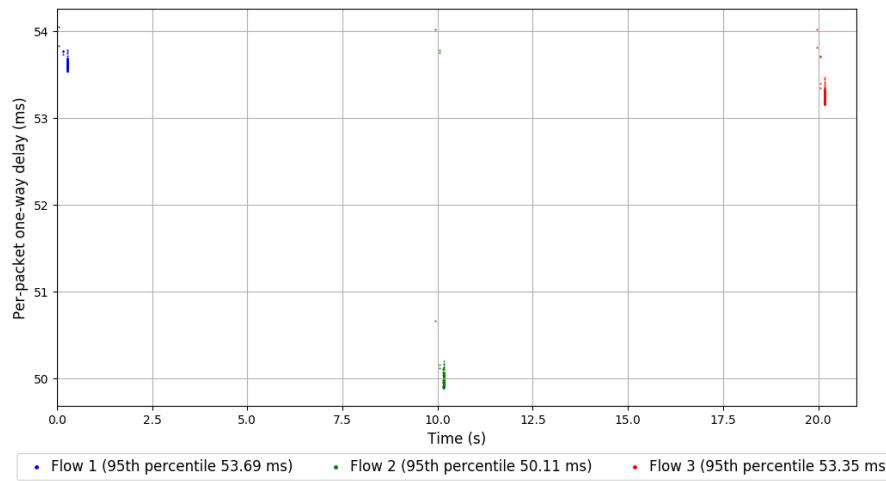
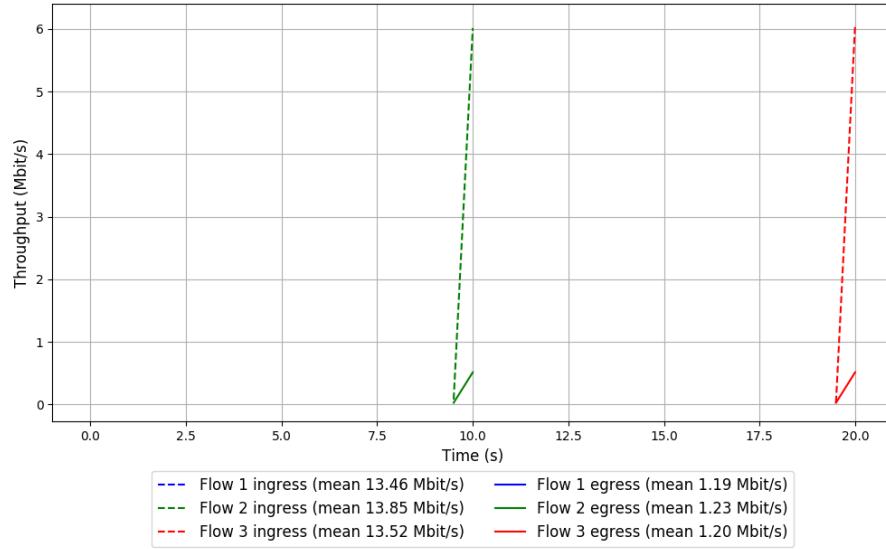


Run 7: Statistics of TaoVA-100x

Start at: 2017-08-21 08:25:24

End at: 2017-08-21 08:25:54

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

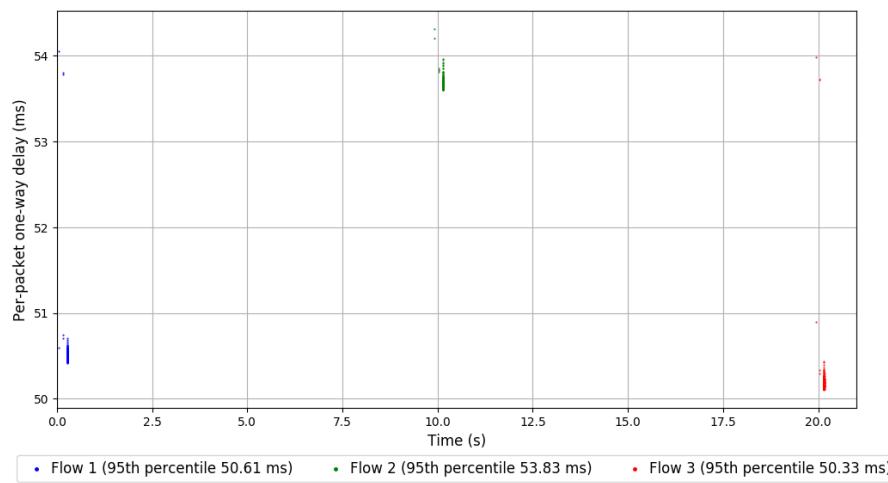
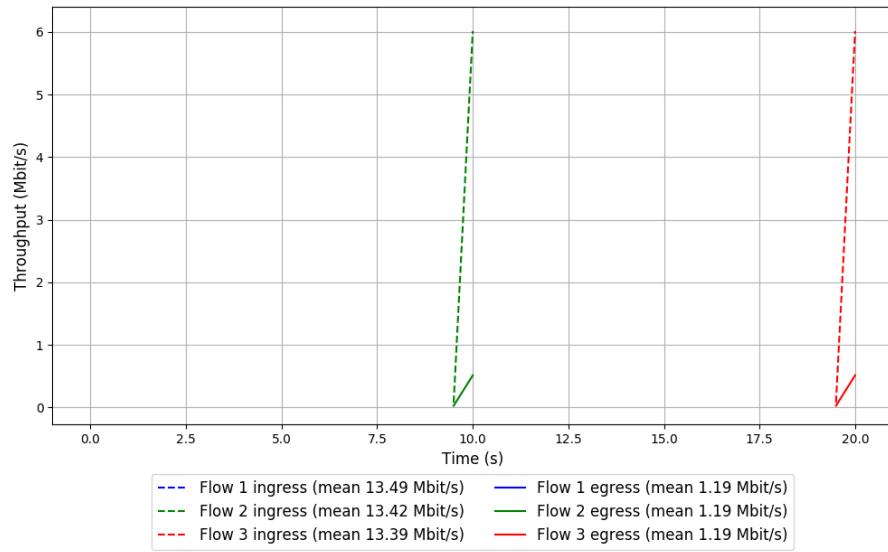


Run 8: Statistics of TaoVA-100x

Start at: 2017-08-21 08:36:05

End at: 2017-08-21 08:36:35

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

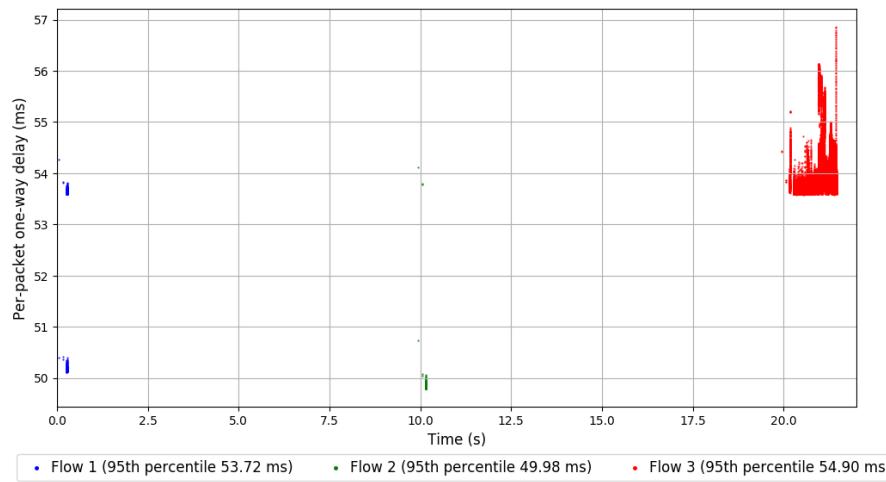
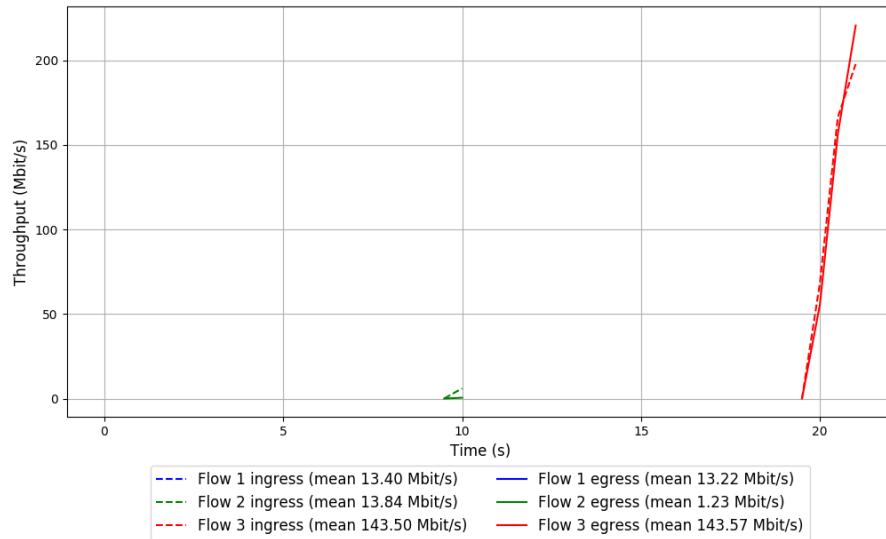


Run 9: Statistics of TaoVA-100x

Start at: 2017-08-21 08:47:04

End at: 2017-08-21 08:47:34

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



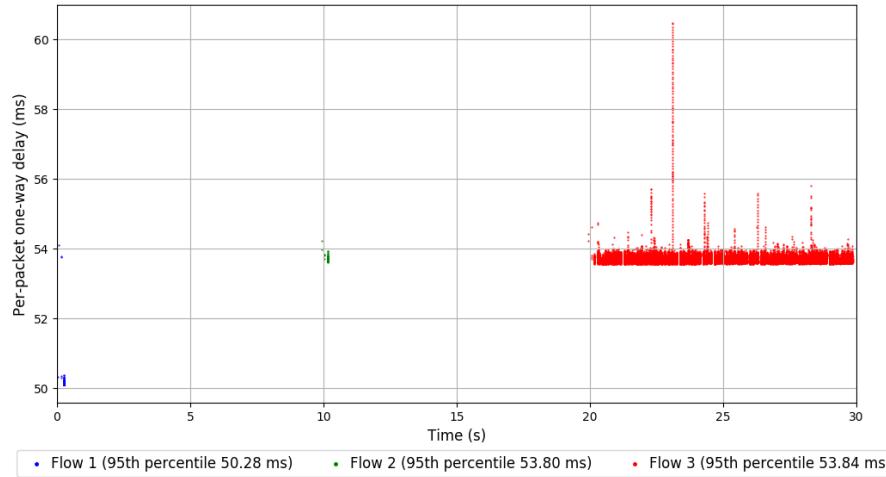
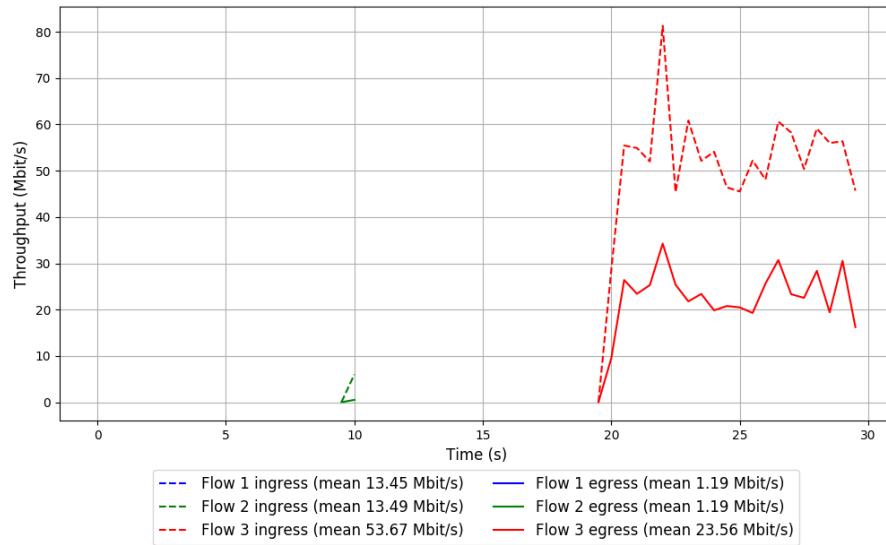
Run 10: Statistics of TaoVA-100x

Start at: 2017-08-21 08:57:42

End at: 2017-08-21 08:58:12

```
# Below is generated by plot.py at 2017-08-21 09:58:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.85 Mbit/s
95th percentile per-packet one-way delay: 53.840 ms
Loss rate: 56.51%
-- Flow 1:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 50.280 ms
Loss rate: 91.17%
-- Flow 2:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 53.803 ms
Loss rate: 91.17%
-- Flow 3:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 53.841 ms
Loss rate: 56.11%
```

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

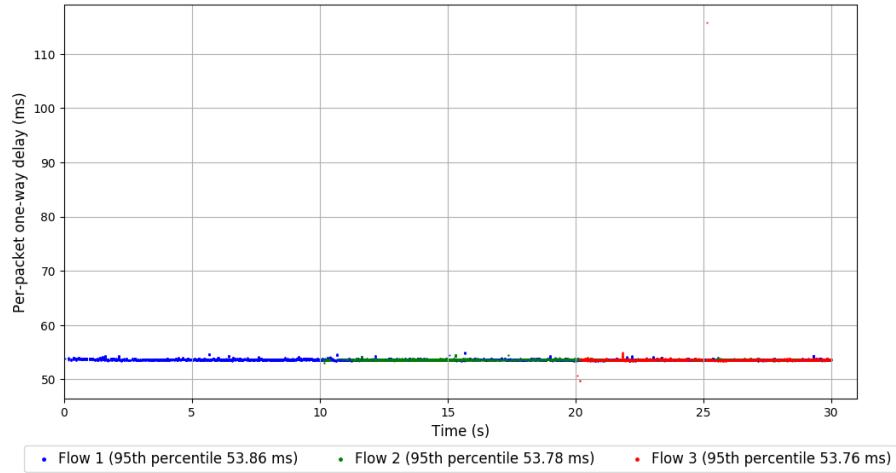
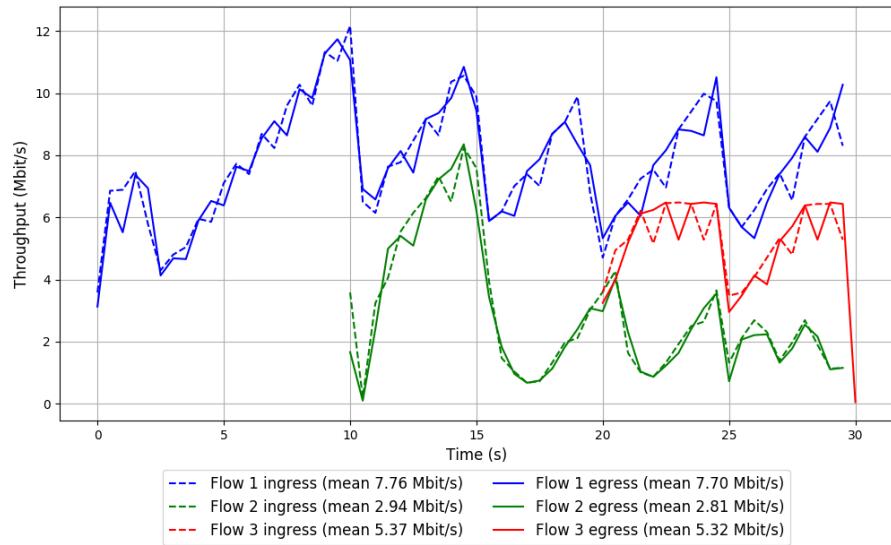


```
Run 1: Statistics of TCP Vegas

Start at: 2017-08-21 07:15:37
End at: 2017-08-21 07:16:07

# Below is generated by plot.py at 2017-08-21 09:58:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.34 Mbit/s
95th percentile per-packet one-way delay: 53.832 ms
Loss rate: 1.42%
-- Flow 1:
Average throughput: 7.70 Mbit/s
95th percentile per-packet one-way delay: 53.857 ms
Loss rate: 0.76%
-- Flow 2:
Average throughput: 2.81 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 4.56%
-- Flow 3:
Average throughput: 5.32 Mbit/s
95th percentile per-packet one-way delay: 53.761 ms
Loss rate: 0.85%
```

Run 1: Report of TCP Vegas — Data Link



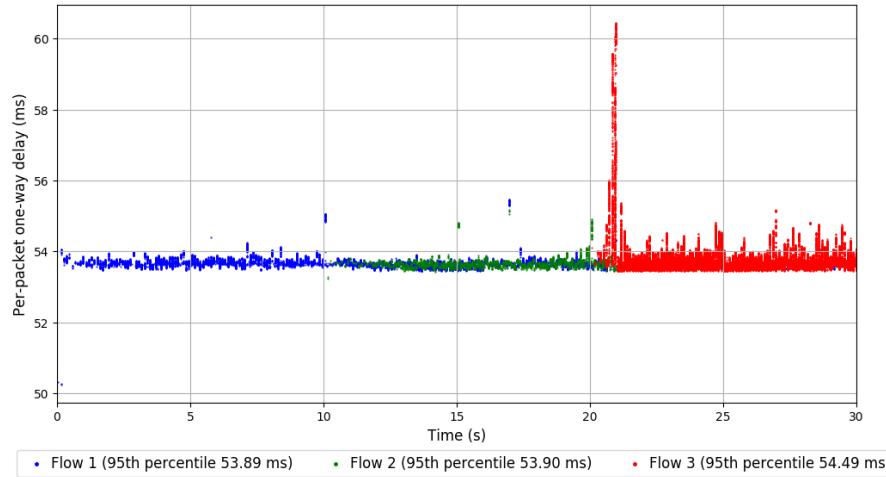
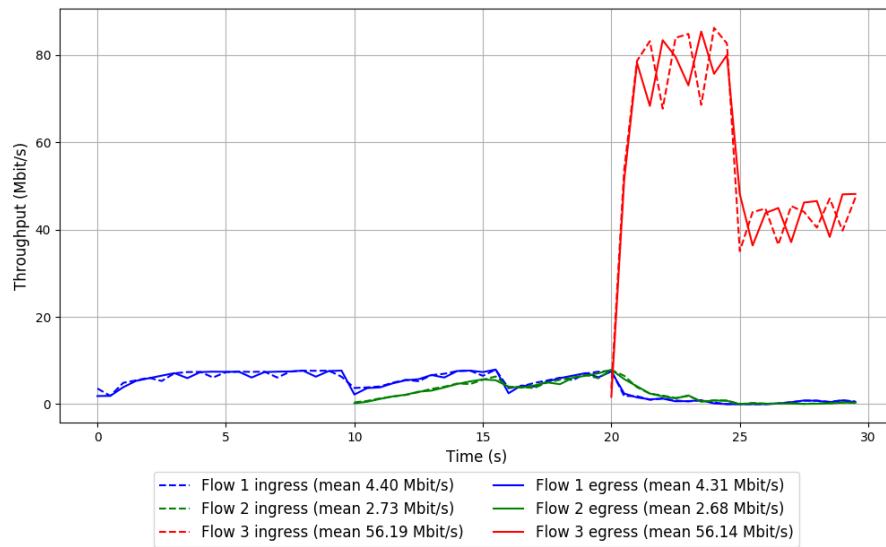
Run 2: Statistics of TCP Vegas

Start at: 2017-08-21 07:26:12

End at: 2017-08-21 07:26:42

```
# Below is generated by plot.py at 2017-08-21 09:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.66 Mbit/s
95th percentile per-packet one-way delay: 54.376 ms
Loss rate: 0.77%
-- Flow 1:
Average throughput: 4.31 Mbit/s
95th percentile per-packet one-way delay: 53.892 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 2.68 Mbit/s
95th percentile per-packet one-way delay: 53.899 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 56.14 Mbit/s
95th percentile per-packet one-way delay: 54.486 ms
Loss rate: 0.29%
```

Run 2: Report of TCP Vegas — Data Link



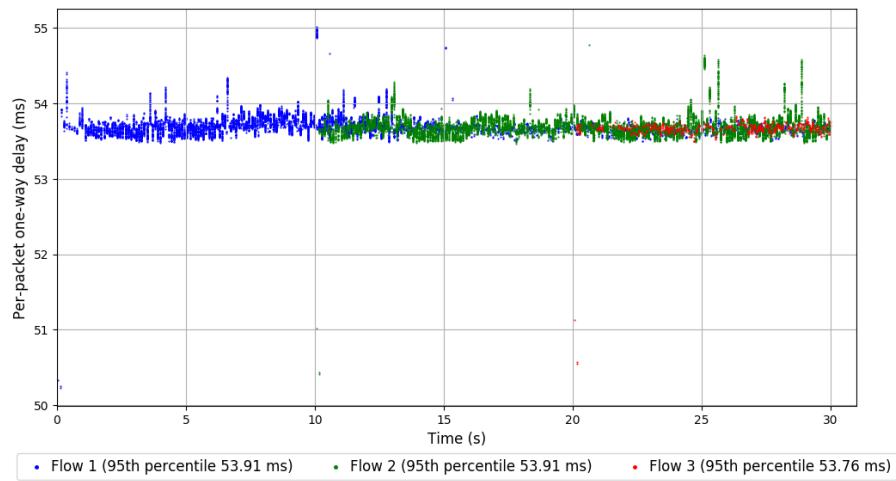
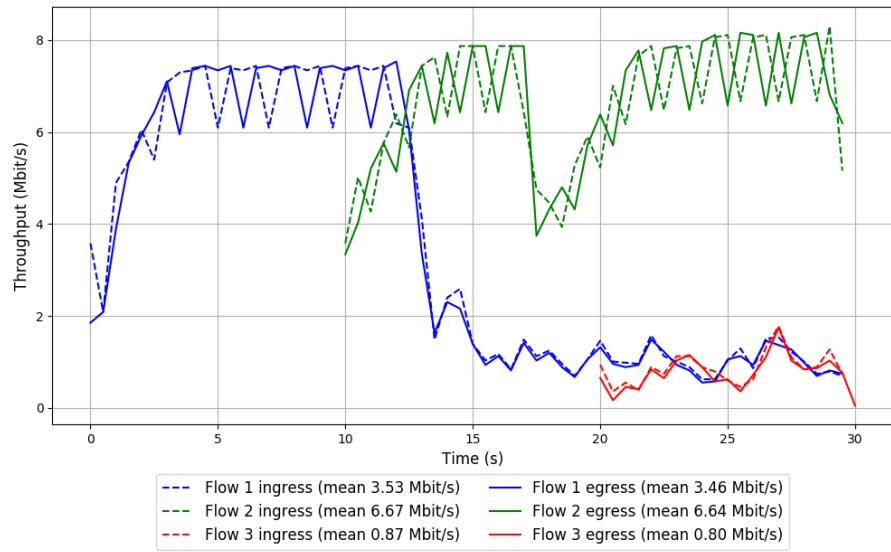
Run 3: Statistics of TCP Vegas

Start at: 2017-08-21 07:37:05

End at: 2017-08-21 07:37:35

```
# Below is generated by plot.py at 2017-08-21 09:58:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.13 Mbit/s
95th percentile per-packet one-way delay: 53.908 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 3.46 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 2.02%
-- Flow 2:
Average throughput: 6.64 Mbit/s
95th percentile per-packet one-way delay: 53.911 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 0.80 Mbit/s
95th percentile per-packet one-way delay: 53.757 ms
Loss rate: 8.40%
```

Run 3: Report of TCP Vegas — Data Link



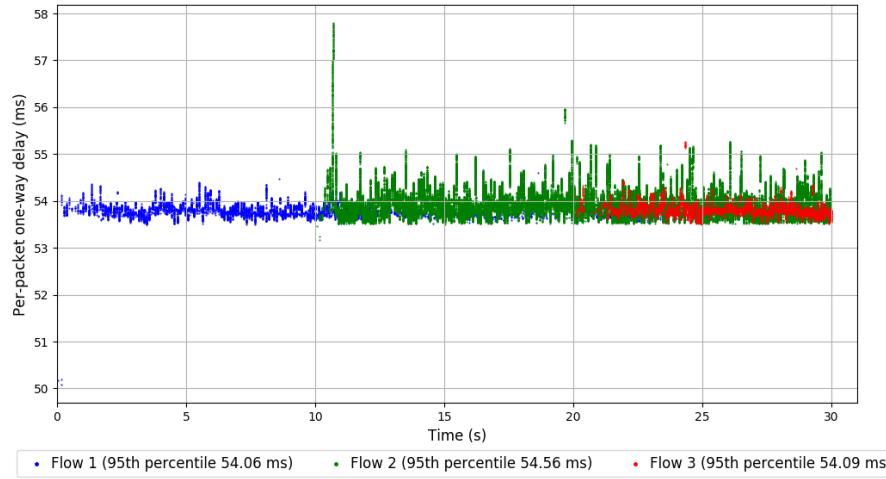
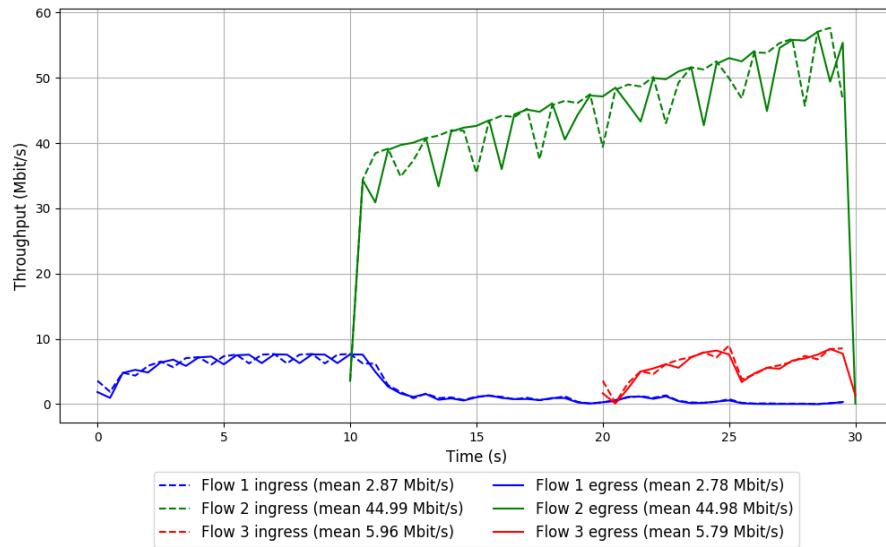
Run 4: Statistics of TCP Vegas

Start at: 2017-08-21 07:48:10

End at: 2017-08-21 07:48:40

```
# Below is generated by plot.py at 2017-08-21 09:58:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 34.65 Mbit/s
95th percentile per-packet one-way delay: 54.520 ms
Loss rate: 0.43%
-- Flow 1:
Average throughput: 2.78 Mbit/s
95th percentile per-packet one-way delay: 54.060 ms
Loss rate: 3.28%
-- Flow 2:
Average throughput: 44.98 Mbit/s
95th percentile per-packet one-way delay: 54.560 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.79 Mbit/s
95th percentile per-packet one-way delay: 54.088 ms
Loss rate: 2.86%
```

Run 4: Report of TCP Vegas — Data Link



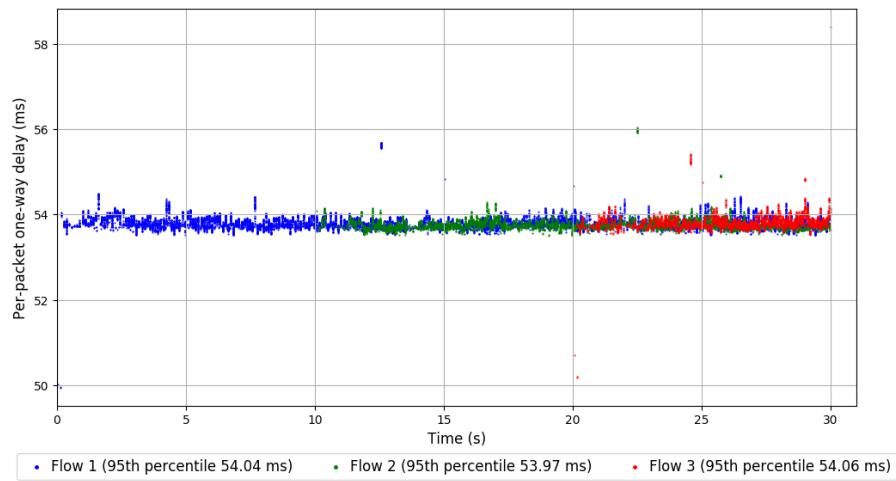
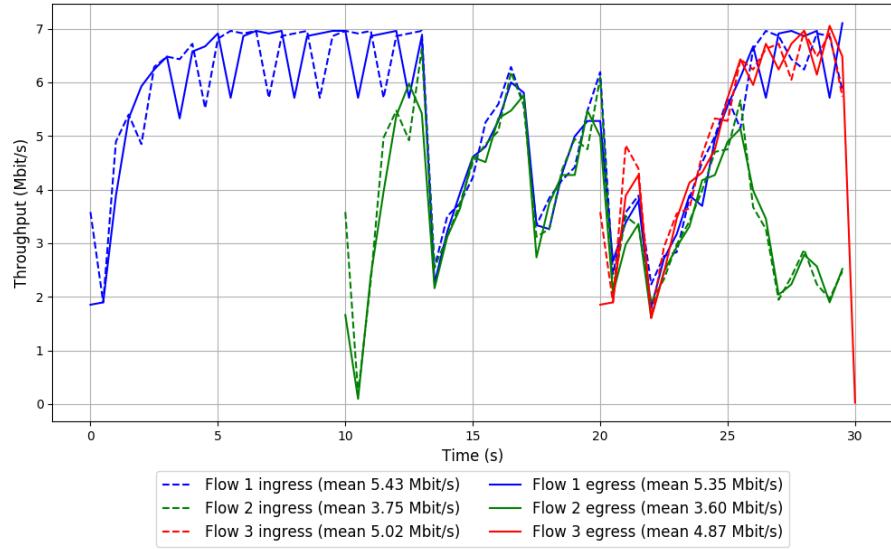
Run 5: Statistics of TCP Vegas

Start at: 2017-08-21 07:58:54

End at: 2017-08-21 07:59:24

```
# Below is generated by plot.py at 2017-08-21 09:58:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.35 Mbit/s
95th percentile per-packet one-way delay: 54.031 ms
Loss rate: 2.39%
-- Flow 1:
Average throughput: 5.35 Mbit/s
95th percentile per-packet one-way delay: 54.040 ms
Loss rate: 1.52%
-- Flow 2:
Average throughput: 3.60 Mbit/s
95th percentile per-packet one-way delay: 53.973 ms
Loss rate: 4.01%
-- Flow 3:
Average throughput: 4.87 Mbit/s
95th percentile per-packet one-way delay: 54.057 ms
Loss rate: 2.79%
```

Run 5: Report of TCP Vegas — Data Link



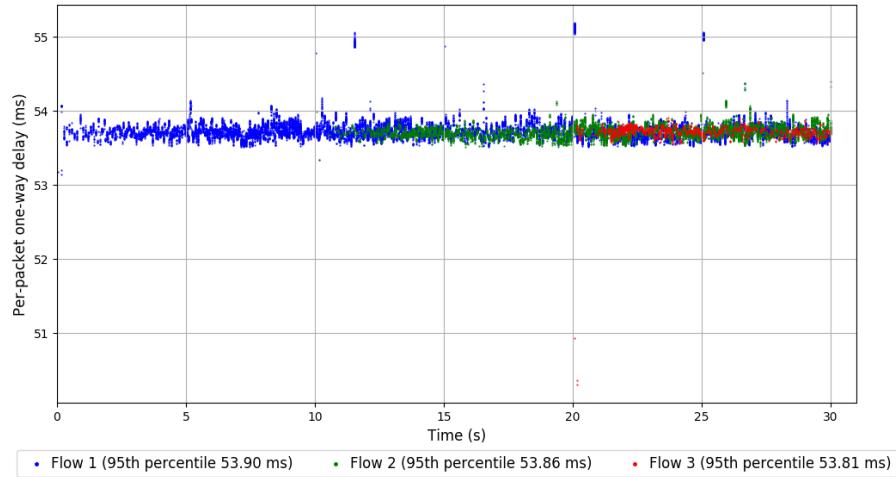
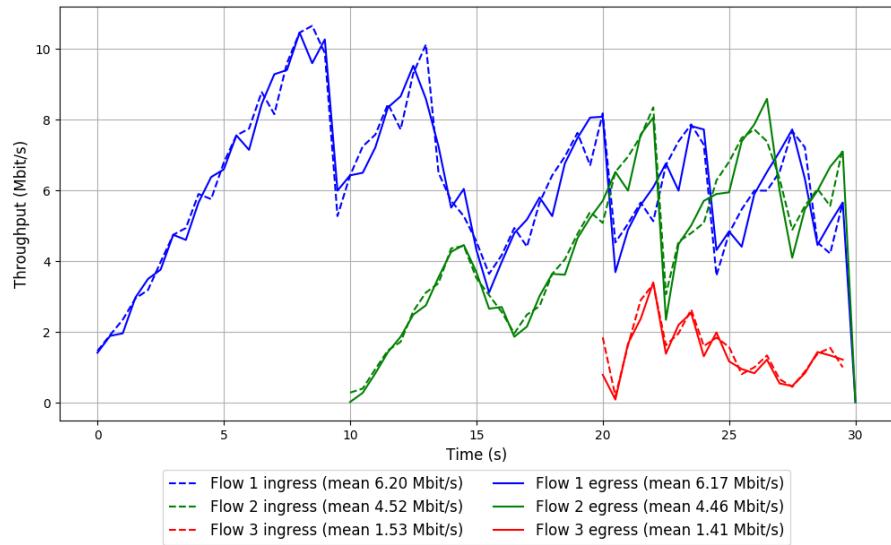
Run 6: Statistics of TCP Vegas

Start at: 2017-08-21 08:09:43

End at: 2017-08-21 08:10:13

```
# Below is generated by plot.py at 2017-08-21 09:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 9.61 Mbit/s
95th percentile per-packet one-way delay: 53.881 ms
Loss rate: 1.11%
-- Flow 1:
Average throughput: 6.17 Mbit/s
95th percentile per-packet one-way delay: 53.896 ms
Loss rate: 0.41%
-- Flow 2:
Average throughput: 4.46 Mbit/s
95th percentile per-packet one-way delay: 53.857 ms
Loss rate: 1.37%
-- Flow 3:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 53.808 ms
Loss rate: 8.14%
```

Run 6: Report of TCP Vegas — Data Link



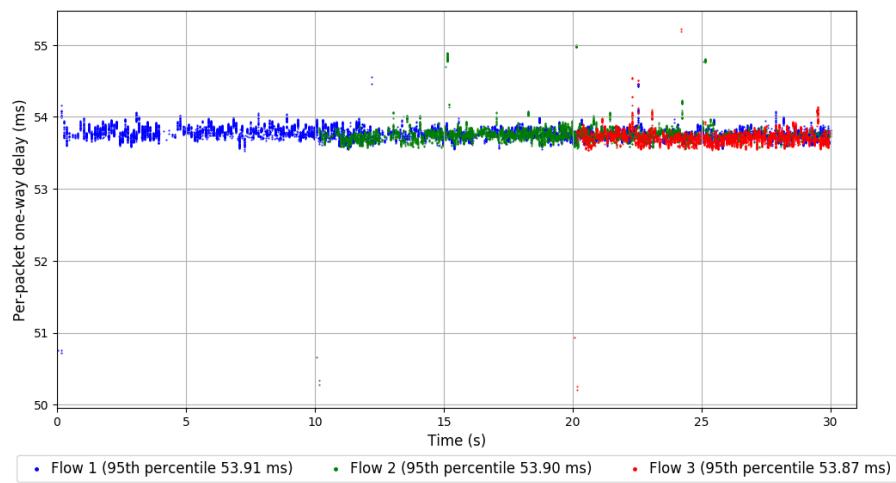
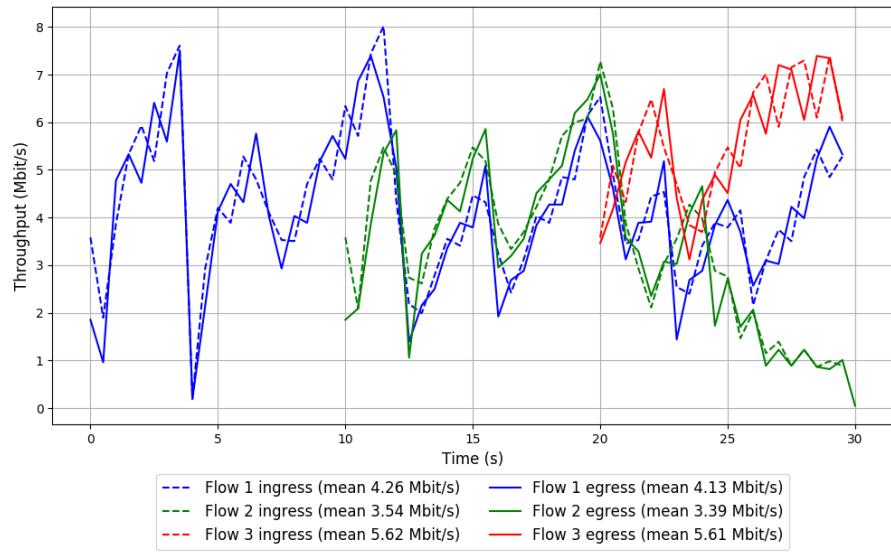
Run 7: Statistics of TCP Vegas

Start at: 2017-08-21 08:20:54

End at: 2017-08-21 08:21:24

```
# Below is generated by plot.py at 2017-08-21 09:58:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.25 Mbit/s
95th percentile per-packet one-way delay: 53.904 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 4.13 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 3.03%
-- Flow 2:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 4.25%
-- Flow 3:
Average throughput: 5.61 Mbit/s
95th percentile per-packet one-way delay: 53.867 ms
Loss rate: 0.43%
```

Run 7: Report of TCP Vegas — Data Link



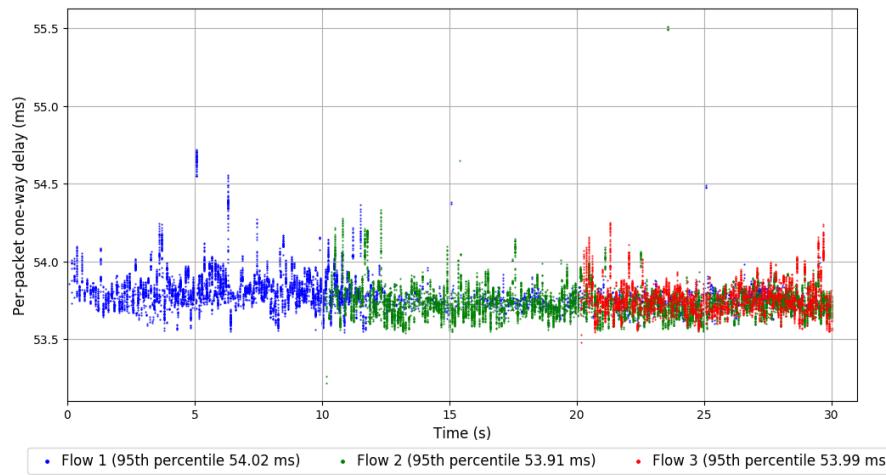
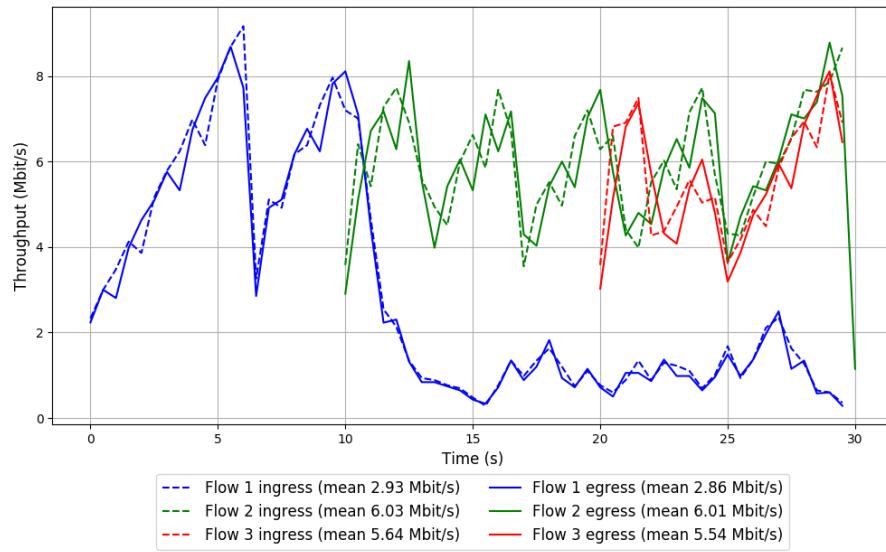
Run 8: Statistics of TCP Vegas

Start at: 2017-08-21 08:31:45

End at: 2017-08-21 08:32:15

```
# Below is generated by plot.py at 2017-08-21 09:58:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.69 Mbit/s
95th percentile per-packet one-way delay: 53.980 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 2.86 Mbit/s
95th percentile per-packet one-way delay: 54.022 ms
Loss rate: 2.41%
-- Flow 2:
Average throughput: 6.01 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 5.54 Mbit/s
95th percentile per-packet one-way delay: 53.986 ms
Loss rate: 1.76%
```

Run 8: Report of TCP Vegas — Data Link



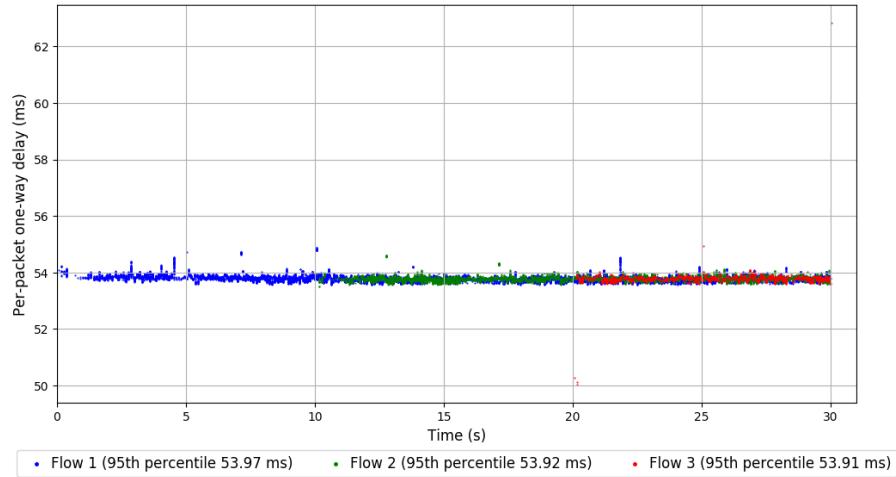
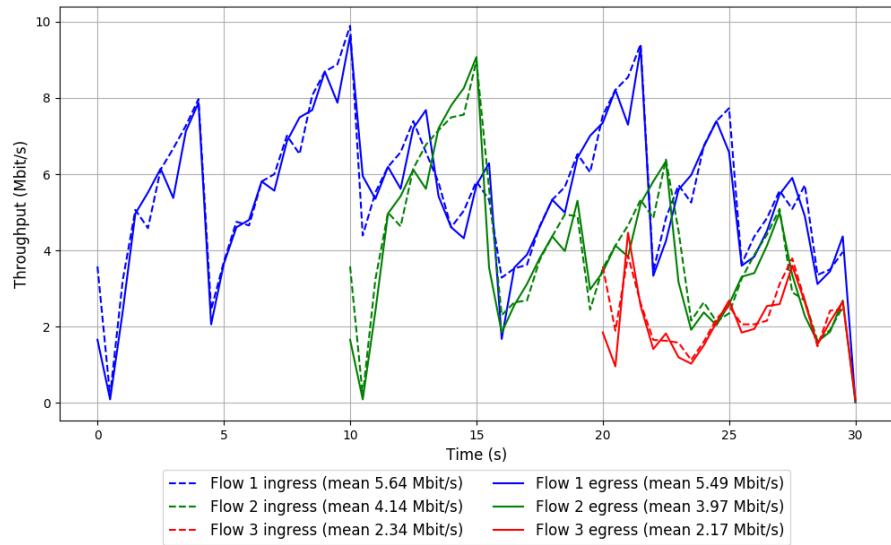
Run 9: Statistics of TCP Vegas

Start at: 2017-08-21 08:42:34

End at: 2017-08-21 08:43:04

```
# Below is generated by plot.py at 2017-08-21 09:58:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.85 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 3.46%
-- Flow 1:
Average throughput: 5.49 Mbit/s
95th percentile per-packet one-way delay: 53.966 ms
Loss rate: 2.64%
-- Flow 2:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 53.917 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 2.17 Mbit/s
95th percentile per-packet one-way delay: 53.914 ms
Loss rate: 7.27%
```

Run 9: Report of TCP Vegas — Data Link



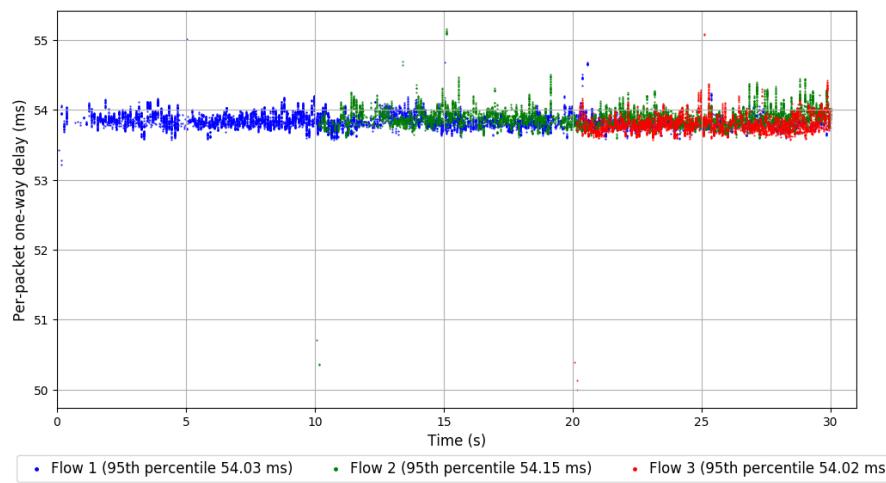
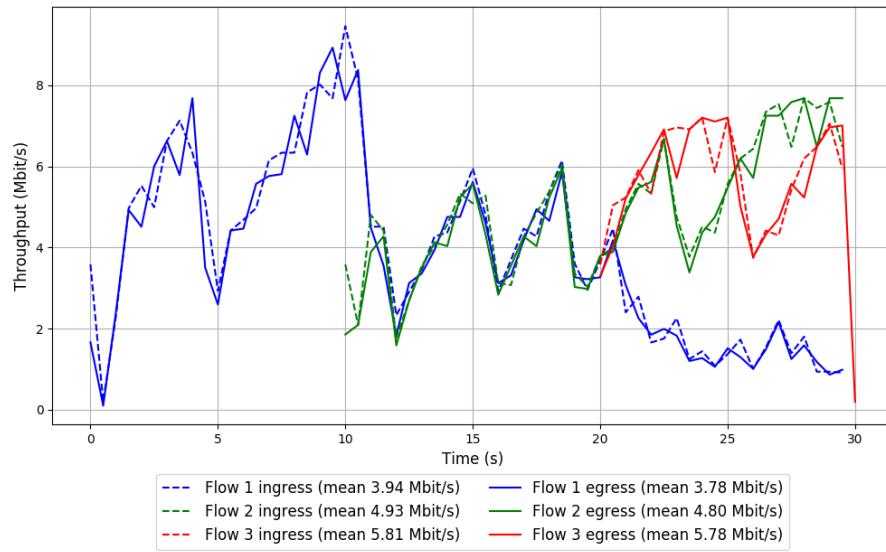
Run 10: Statistics of TCP Vegas

Start at: 2017-08-21 08:53:22

End at: 2017-08-21 08:53:52

```
# Below is generated by plot.py at 2017-08-21 09:58:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.89 Mbit/s
95th percentile per-packet one-way delay: 54.070 ms
Loss rate: 2.82%
-- Flow 1:
Average throughput: 3.78 Mbit/s
95th percentile per-packet one-way delay: 54.031 ms
Loss rate: 4.05%
-- Flow 2:
Average throughput: 4.80 Mbit/s
95th percentile per-packet one-way delay: 54.145 ms
Loss rate: 2.74%
-- Flow 3:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 54.024 ms
Loss rate: 0.46%
```

Run 10: Report of TCP Vegas — Data Link



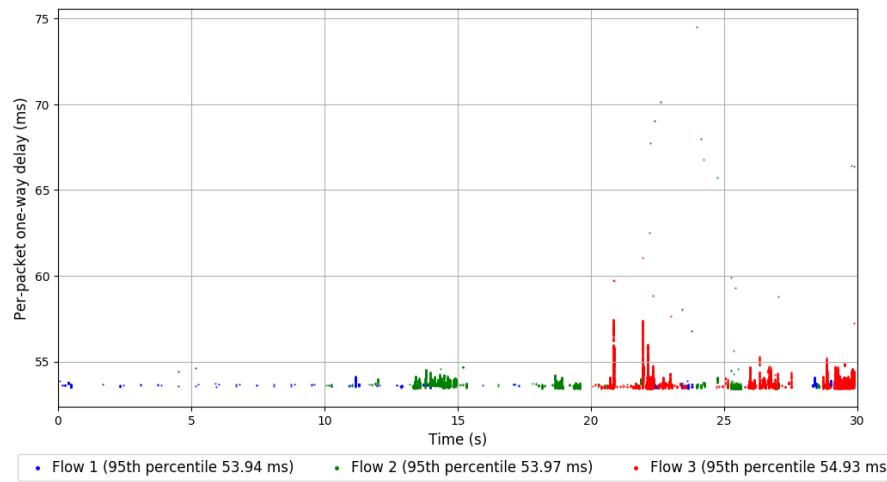
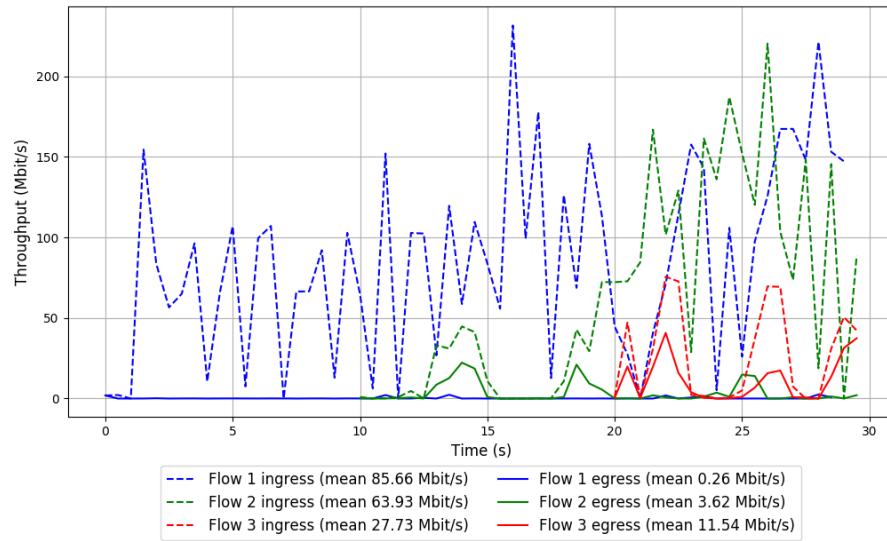
Run 1: Statistics of Verus

Start at: 2017-08-21 07:11:27

End at: 2017-08-21 07:11:57

```
# Below is generated by plot.py at 2017-08-21 09:58:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.46 Mbit/s
95th percentile per-packet one-way delay: 54.488 ms
Loss rate: 95.25%
-- Flow 1:
Average throughput: 0.26 Mbit/s
95th percentile per-packet one-way delay: 53.942 ms
Loss rate: 99.70%
-- Flow 2:
Average throughput: 3.62 Mbit/s
95th percentile per-packet one-way delay: 53.967 ms
Loss rate: 94.35%
-- Flow 3:
Average throughput: 11.54 Mbit/s
95th percentile per-packet one-way delay: 54.928 ms
Loss rate: 58.37%
```

Run 1: Report of Verus — Data Link



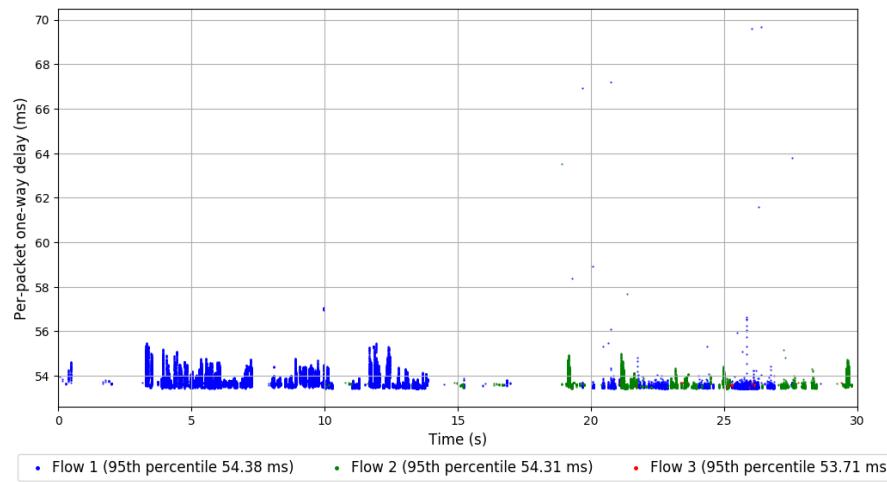
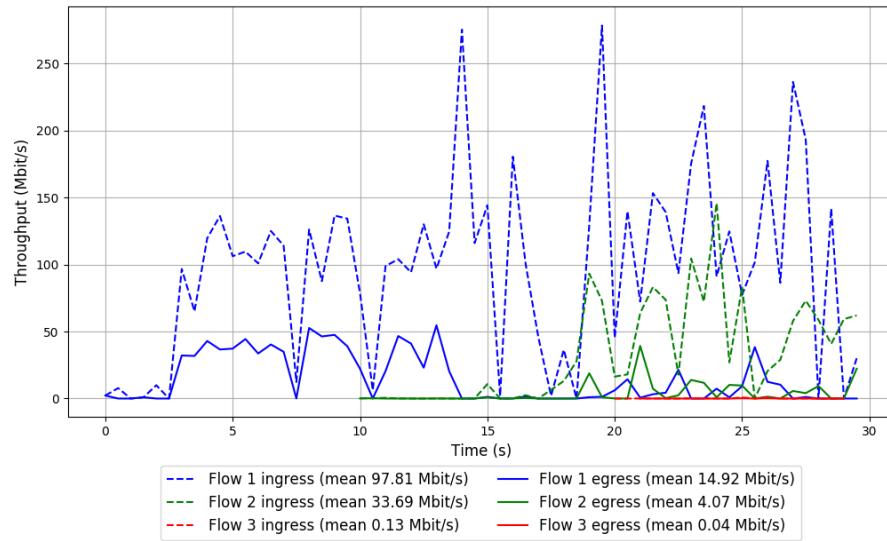
Run 2: Statistics of Verus

Start at: 2017-08-21 07:22:08

End at: 2017-08-21 07:22:38

```
# Below is generated by plot.py at 2017-08-21 09:58:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.62 Mbit/s
95th percentile per-packet one-way delay: 54.368 ms
Loss rate: 85.39%
-- Flow 1:
Average throughput: 14.92 Mbit/s
95th percentile per-packet one-way delay: 54.380 ms
Loss rate: 84.80%
-- Flow 2:
Average throughput: 4.07 Mbit/s
95th percentile per-packet one-way delay: 54.313 ms
Loss rate: 87.98%
-- Flow 3:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 53.710 ms
Loss rate: 75.25%
```

Run 2: Report of Verus — Data Link



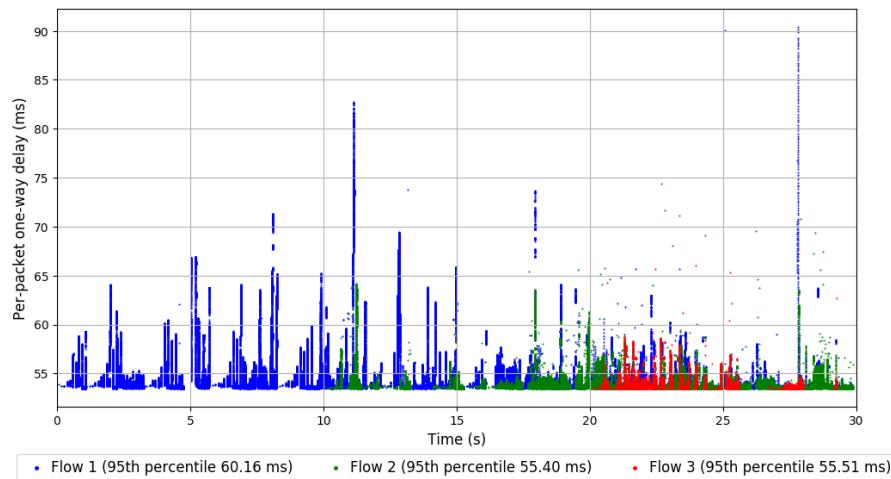
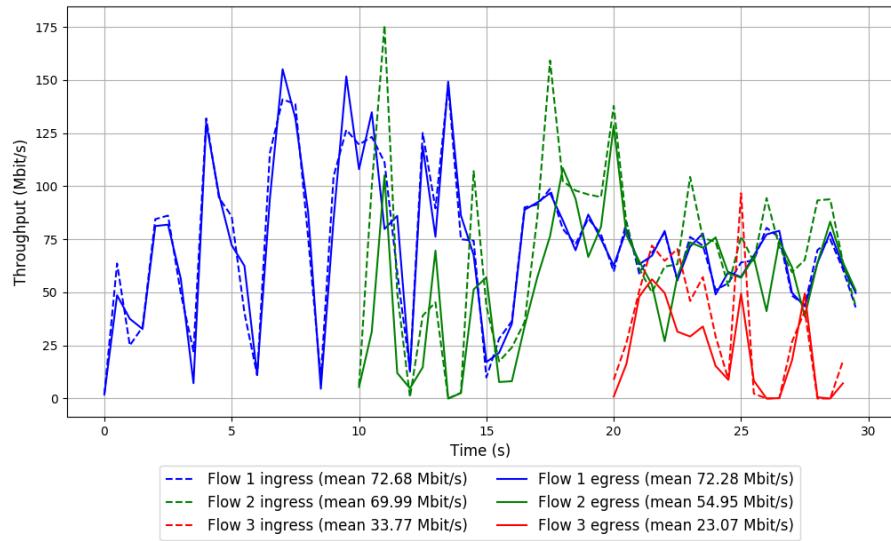
Run 3: Statistics of Verus

Start at: 2017-08-21 07:32:49

End at: 2017-08-21 07:33:19

```
# Below is generated by plot.py at 2017-08-21 09:59:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 115.87 Mbit/s
95th percentile per-packet one-way delay: 58.597 ms
Loss rate: 10.58%
-- Flow 1:
Average throughput: 72.28 Mbit/s
95th percentile per-packet one-way delay: 60.160 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 54.95 Mbit/s
95th percentile per-packet one-way delay: 55.399 ms
Loss rate: 21.51%
-- Flow 3:
Average throughput: 23.07 Mbit/s
95th percentile per-packet one-way delay: 55.513 ms
Loss rate: 31.69%
```

Run 3: Report of Verus — Data Link



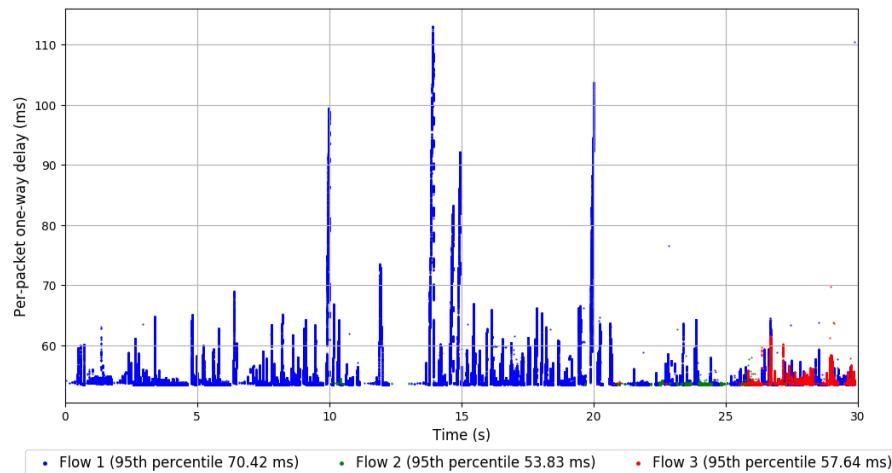
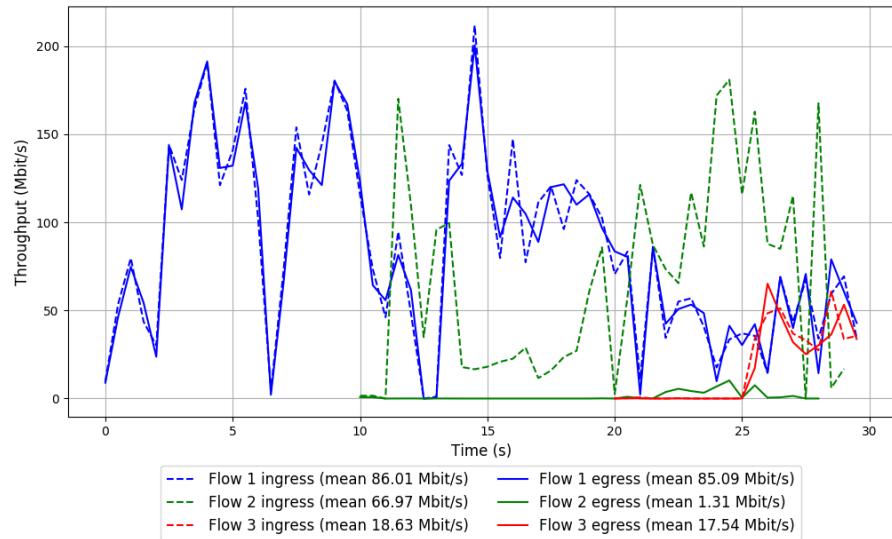
Run 4: Statistics of Verus

Start at: 2017-08-21 07:43:59

End at: 2017-08-21 07:44:29

```
# Below is generated by plot.py at 2017-08-21 09:59:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 91.61 Mbit/s
95th percentile per-packet one-way delay: 69.055 ms
Loss rate: 32.34%
-- Flow 1:
Average throughput: 85.09 Mbit/s
95th percentile per-packet one-way delay: 70.415 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 53.830 ms
Loss rate: 98.16%
-- Flow 3:
Average throughput: 17.54 Mbit/s
95th percentile per-packet one-way delay: 57.640 ms
Loss rate: 5.84%
```

Run 4: Report of Verus — Data Link



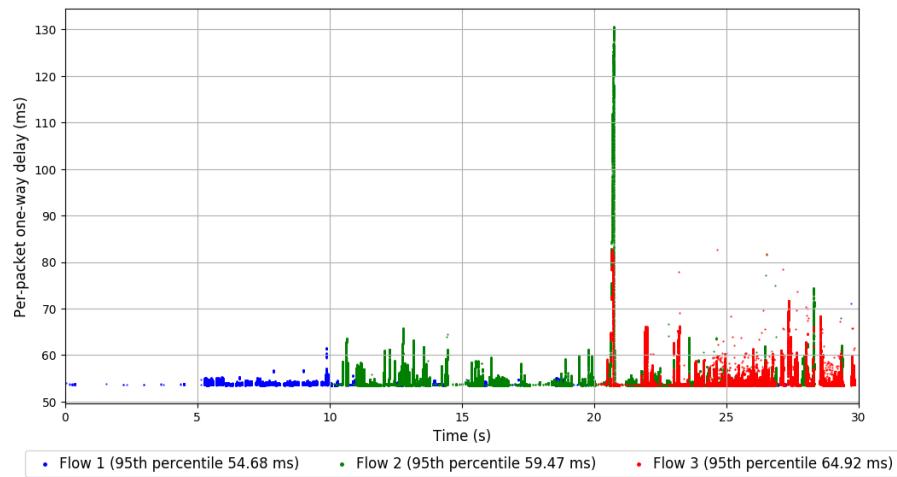
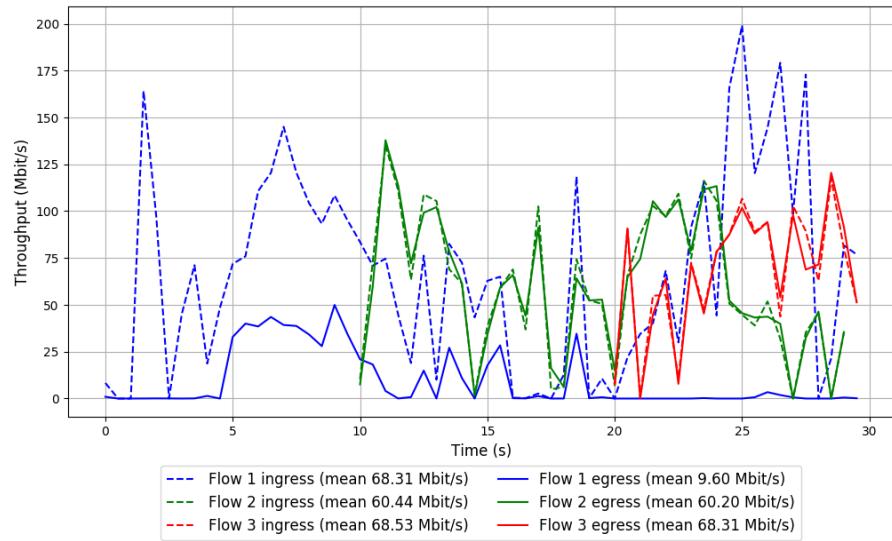
Run 5: Statistics of Verus

Start at: 2017-08-21 07:54:40

End at: 2017-08-21 07:55:11

```
# Below is generated by plot.py at 2017-08-21 09:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 71.05 Mbit/s
95th percentile per-packet one-way delay: 60.571 ms
Loss rate: 45.26%
-- Flow 1:
Average throughput: 9.60 Mbit/s
95th percentile per-packet one-way delay: 54.681 ms
Loss rate: 85.95%
-- Flow 2:
Average throughput: 60.20 Mbit/s
95th percentile per-packet one-way delay: 59.465 ms
Loss rate: 0.36%
-- Flow 3:
Average throughput: 68.31 Mbit/s
95th percentile per-packet one-way delay: 64.917 ms
Loss rate: 0.47%
```

Run 5: Report of Verus — Data Link



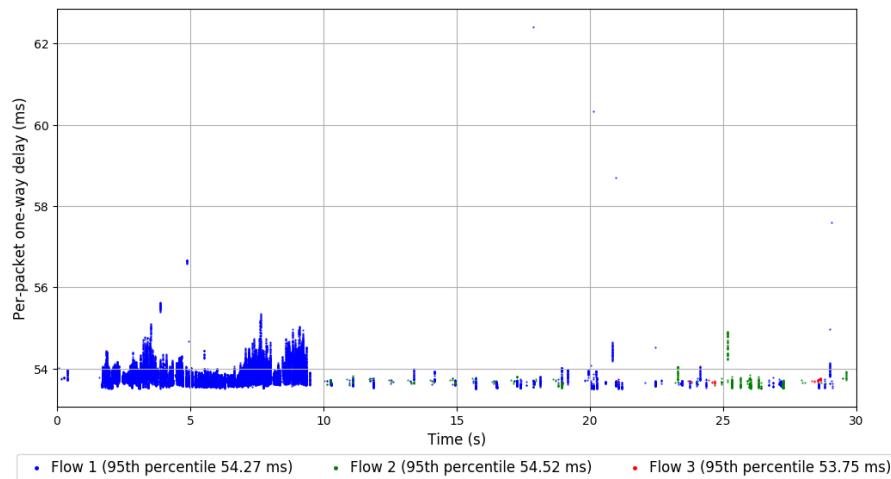
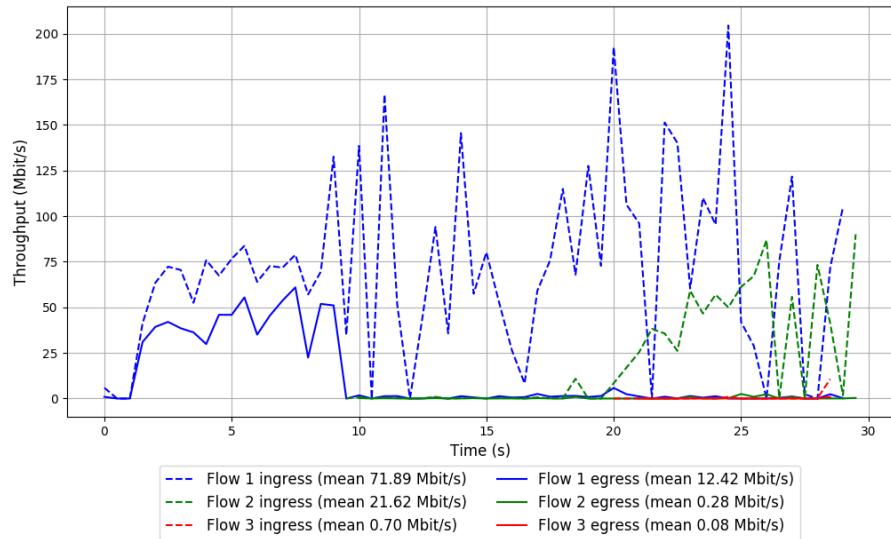
Run 6: Statistics of Verus

Start at: 2017-08-21 08:05:34

End at: 2017-08-21 08:06:04

```
# Below is generated by plot.py at 2017-08-21 09:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.41 Mbit/s
95th percentile per-packet one-way delay: 54.276 ms
Loss rate: 85.56%
-- Flow 1:
Average throughput: 12.42 Mbit/s
95th percentile per-packet one-way delay: 54.275 ms
Loss rate: 82.87%
-- Flow 2:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 54.521 ms
Loss rate: 98.73%
-- Flow 3:
Average throughput: 0.08 Mbit/s
95th percentile per-packet one-way delay: 53.751 ms
Loss rate: 89.92%
```

Run 6: Report of Verus — Data Link



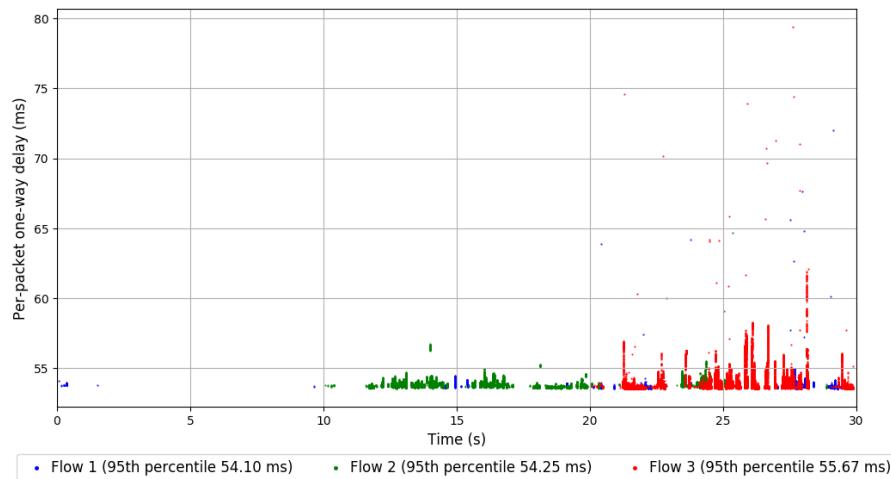
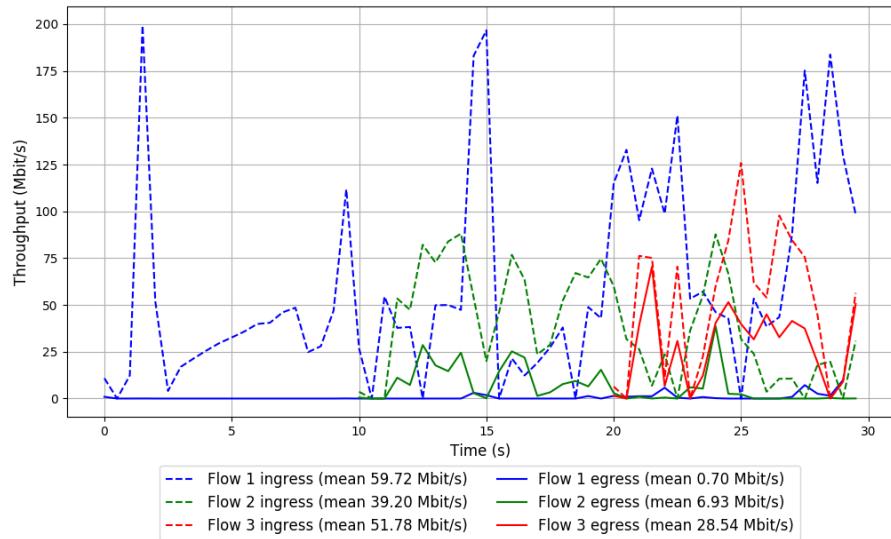
Run 7: Statistics of Verus

Start at: 2017-08-21 08:16:41

End at: 2017-08-21 08:17:11

```
# Below is generated by plot.py at 2017-08-21 09:59:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.64 Mbit/s
95th percentile per-packet one-way delay: 55.043 ms
Loss rate: 85.74%
-- Flow 1:
Average throughput: 0.70 Mbit/s
95th percentile per-packet one-way delay: 54.102 ms
Loss rate: 98.84%
-- Flow 2:
Average throughput: 6.93 Mbit/s
95th percentile per-packet one-way delay: 54.251 ms
Loss rate: 82.39%
-- Flow 3:
Average throughput: 28.54 Mbit/s
95th percentile per-packet one-way delay: 55.670 ms
Loss rate: 44.91%
```

Run 7: Report of Verus — Data Link



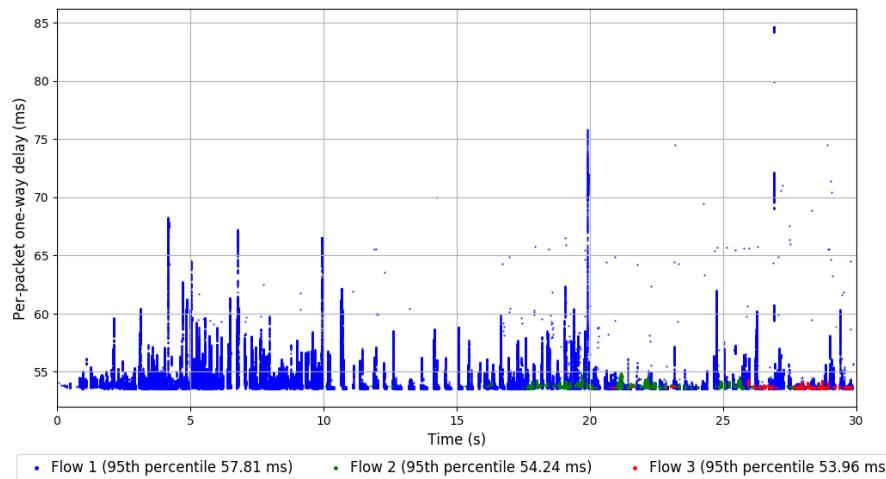
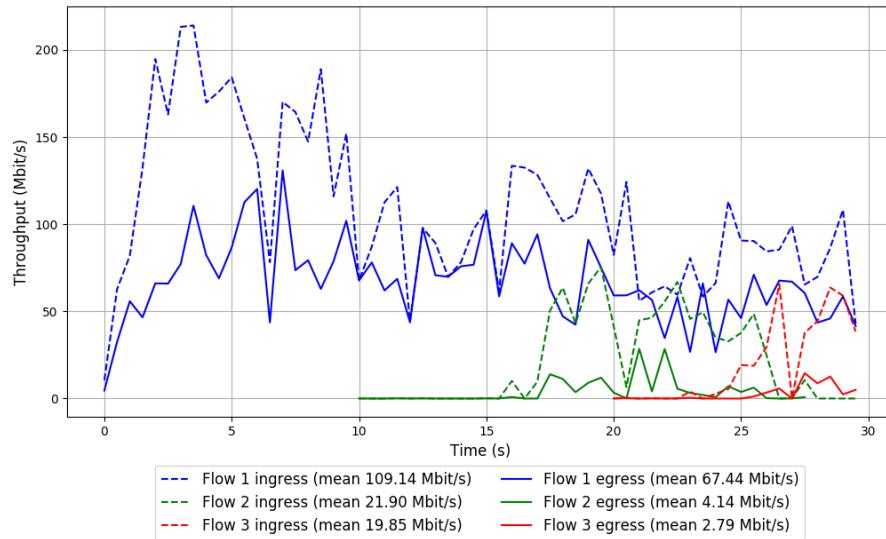
Run 8: Statistics of Verus

Start at: 2017-08-21 08:27:31

End at: 2017-08-21 08:28:01

```
# Below is generated by plot.py at 2017-08-21 09:59:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 70.79 Mbit/s
95th percentile per-packet one-way delay: 57.707 ms
Loss rate: 45.64%
-- Flow 1:
Average throughput: 67.44 Mbit/s
95th percentile per-packet one-way delay: 57.812 ms
Loss rate: 38.22%
-- Flow 2:
Average throughput: 4.14 Mbit/s
95th percentile per-packet one-way delay: 54.245 ms
Loss rate: 83.21%
-- Flow 3:
Average throughput: 2.79 Mbit/s
95th percentile per-packet one-way delay: 53.960 ms
Loss rate: 86.01%
```

Run 8: Report of Verus — Data Link



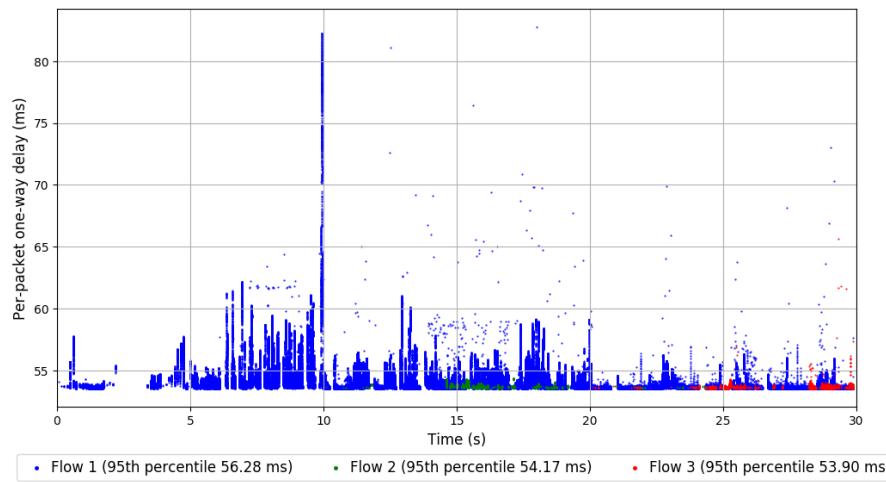
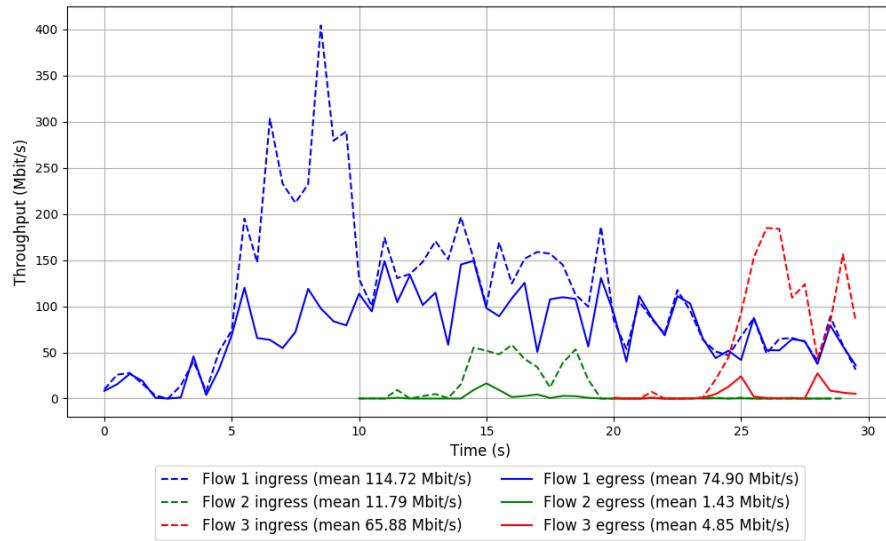
Run 9: Statistics of Verus

Start at: 2017-08-21 08:38:20

End at: 2017-08-21 08:38:50

```
# Below is generated by plot.py at 2017-08-21 09:59:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 77.37 Mbit/s
95th percentile per-packet one-way delay: 56.208 ms
Loss rate: 46.23%
-- Flow 1:
Average throughput: 74.90 Mbit/s
95th percentile per-packet one-way delay: 56.277 ms
Loss rate: 34.71%
-- Flow 2:
Average throughput: 1.43 Mbit/s
95th percentile per-packet one-way delay: 54.175 ms
Loss rate: 88.30%
-- Flow 3:
Average throughput: 4.85 Mbit/s
95th percentile per-packet one-way delay: 53.901 ms
Loss rate: 92.64%
```

Run 9: Report of Verus — Data Link



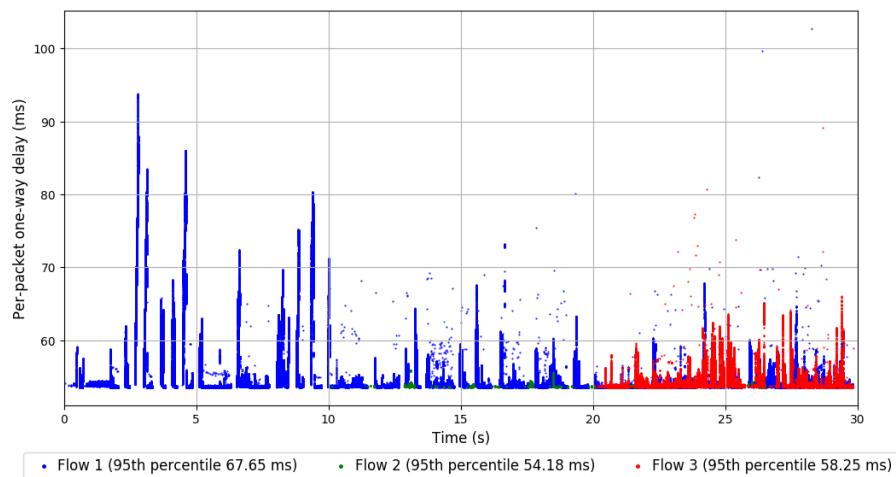
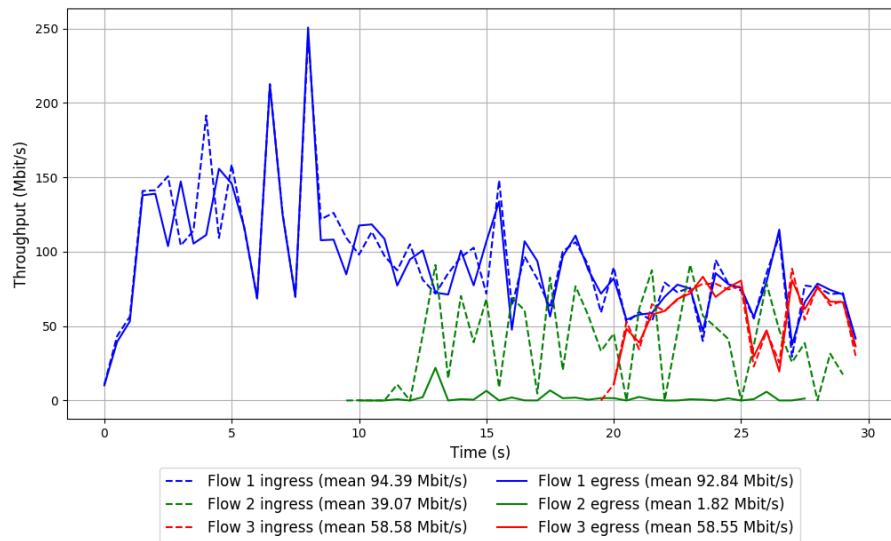
Run 10: Statistics of Verus

Start at: 2017-08-21 08:49:10

End at: 2017-08-21 08:49:40

```
# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.12 Mbit/s
95th percentile per-packet one-way delay: 65.940 ms
Loss rate: 18.57%
-- Flow 1:
Average throughput: 92.84 Mbit/s
95th percentile per-packet one-way delay: 67.647 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 1.82 Mbit/s
95th percentile per-packet one-way delay: 54.183 ms
Loss rate: 95.75%
-- Flow 3:
Average throughput: 58.55 Mbit/s
95th percentile per-packet one-way delay: 58.254 ms
Loss rate: 0.00%
```

Run 10: Report of Verus — Data Link

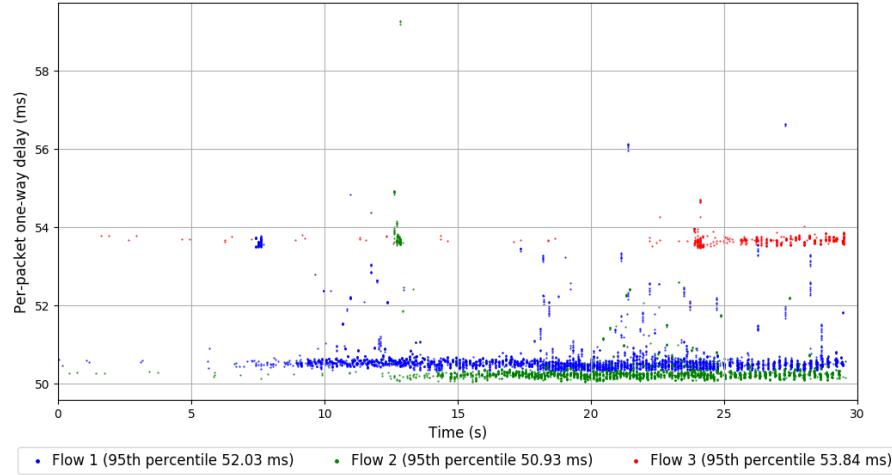
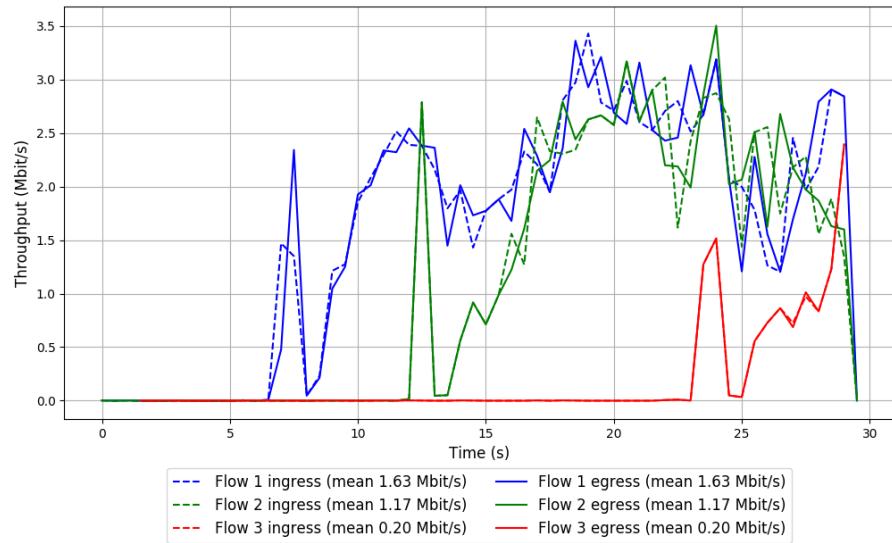


```
Run 1: Statistics of WebRTC media

Start at: 2017-08-21 07:12:10
End at: 2017-08-21 07:12:40

# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.97 Mbit/s
95th percentile per-packet one-way delay: 53.652 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 52.034 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.17 Mbit/s
95th percentile per-packet one-way delay: 50.927 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 53.843 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

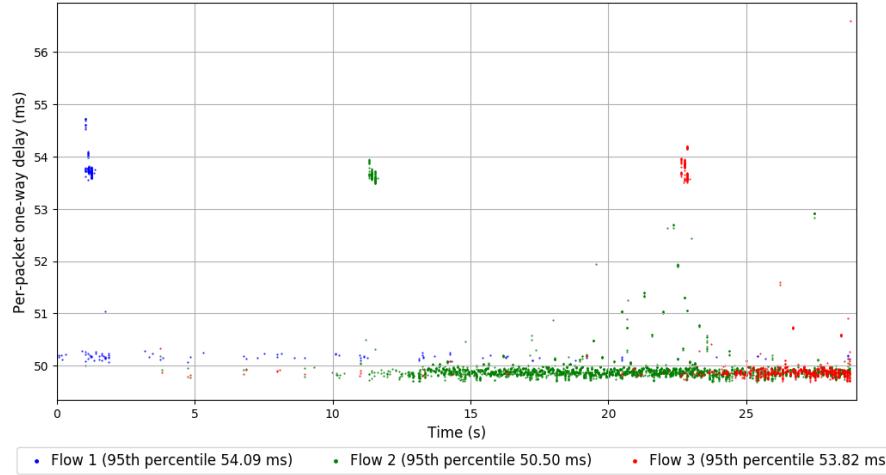
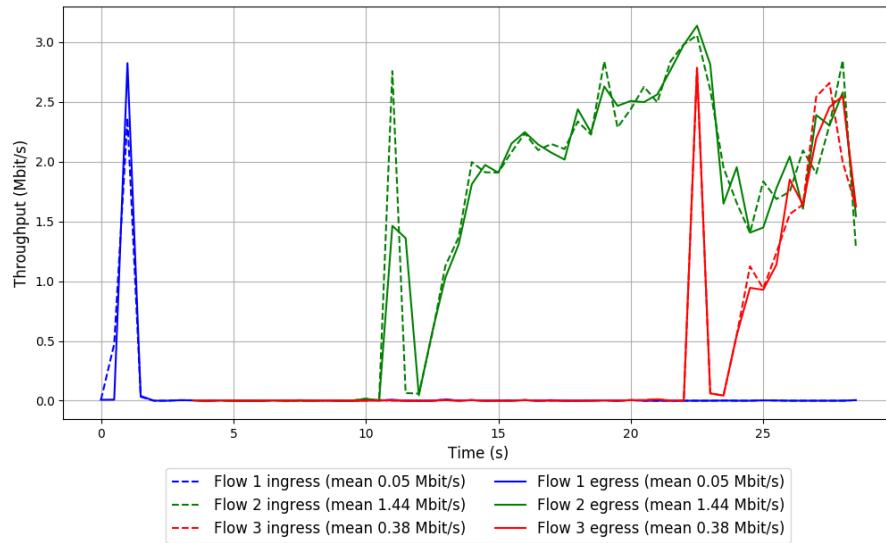


```
Run 2: Statistics of WebRTC media

Start at: 2017-08-21 07:22:51
End at: 2017-08-21 07:23:21

# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 53.600 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.090 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 50.497 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 53.817 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

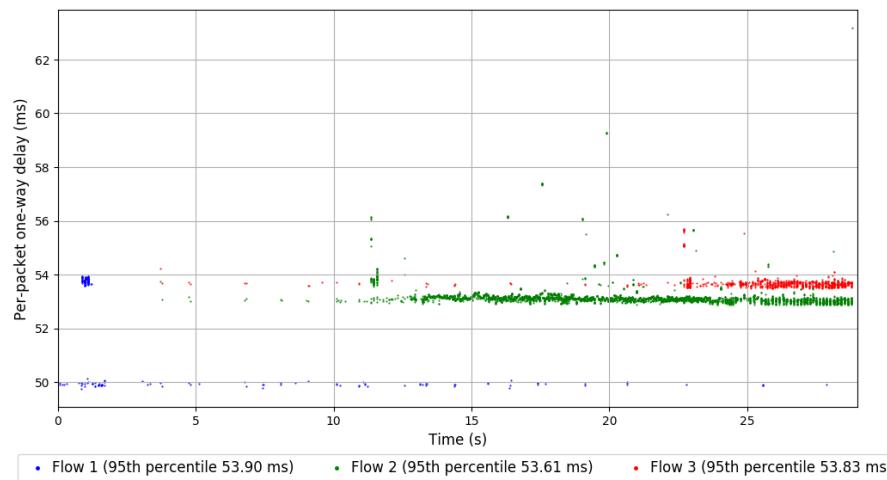
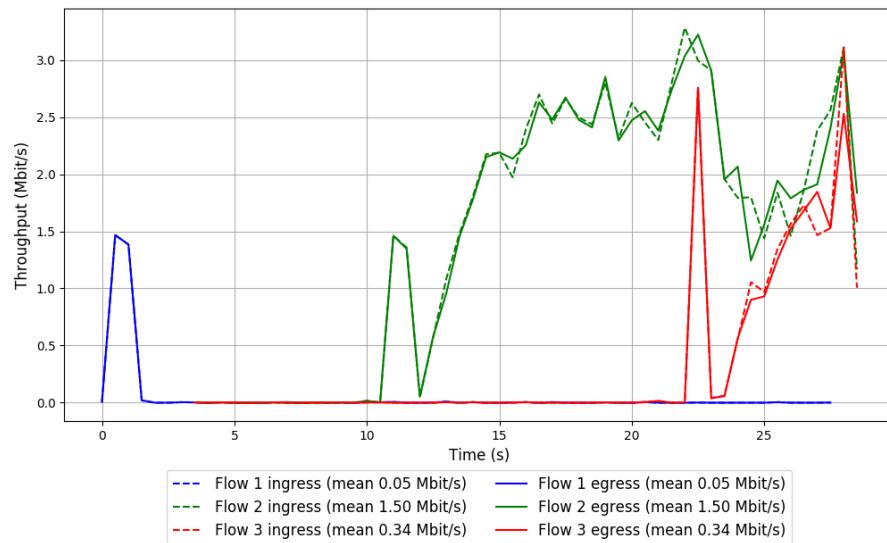


```
Run 3: Statistics of WebRTC media

Start at: 2017-08-21 07:33:39
End at: 2017-08-21 07:34:09

# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 53.805 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.900 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 53.607 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 53.833 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

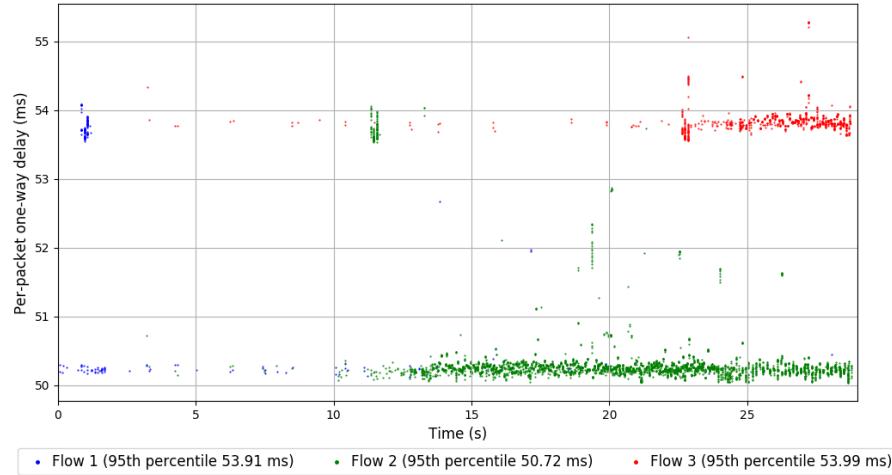
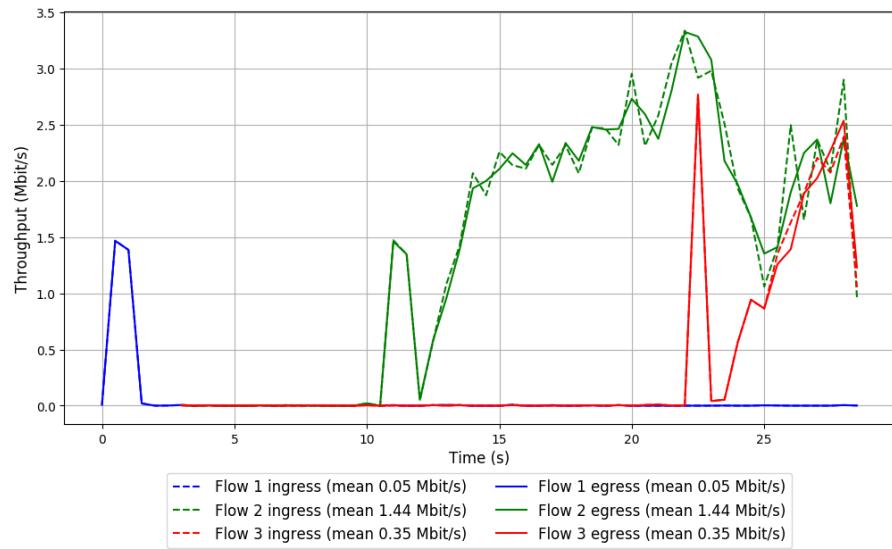


```
Run 4: Statistics of WebRTC media

Start at: 2017-08-21 07:44:47
End at: 2017-08-21 07:45:17

# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.64 Mbit/s
95th percentile per-packet one-way delay: 53.873 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.912 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 50.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 53.989 ms
Loss rate: 0.00%
```

Run 4: Report of WebRTC media — Data Link



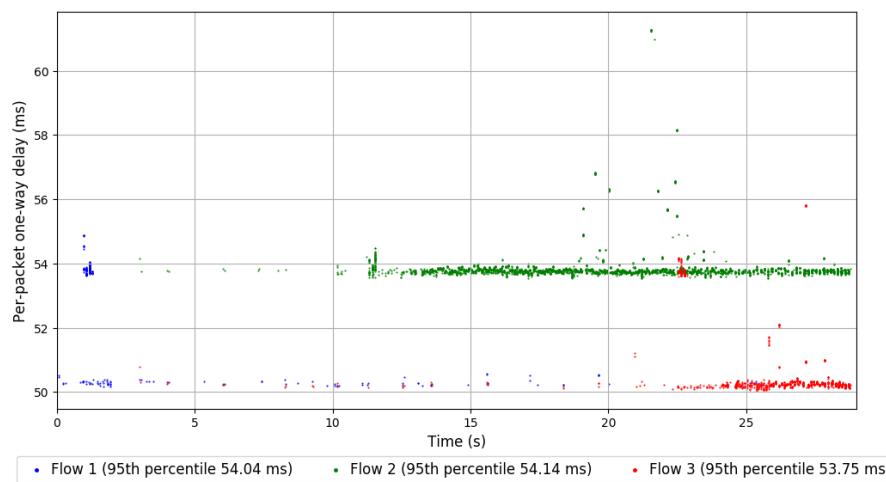
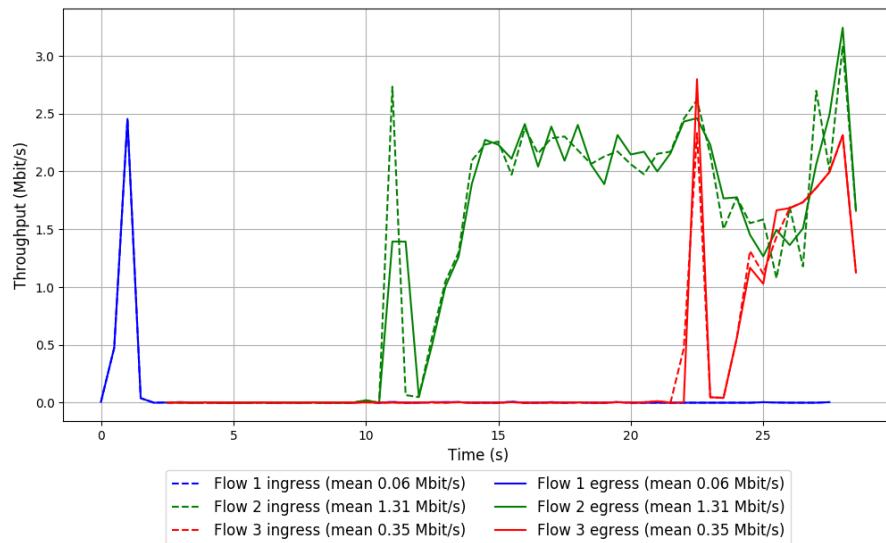
Run 5: Statistics of WebRTC media

Start at: 2017-08-21 07:55:27

End at: 2017-08-21 07:55:57

```
# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 54.101 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.039 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.31 Mbit/s
95th percentile per-packet one-way delay: 54.143 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 53.746 ms
Loss rate: 0.00%
```

Run 5: Report of WebRTC media — Data Link



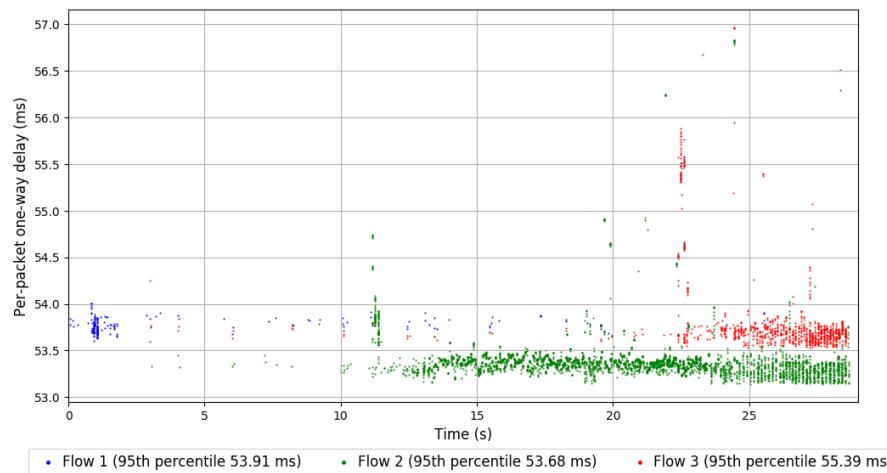
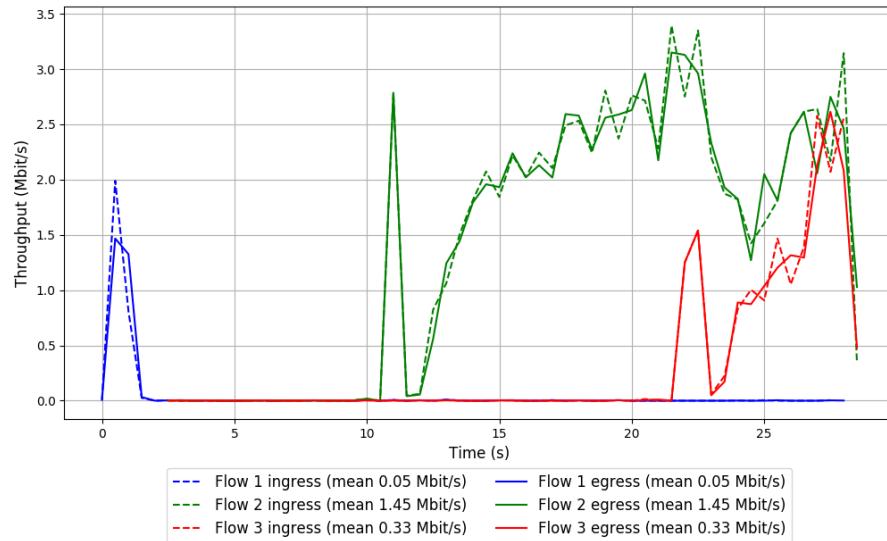
Run 6: Statistics of WebRTC media

Start at: 2017-08-21 08:06:16

End at: 2017-08-21 08:06:46

```
# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 53.864 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.915 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.45 Mbit/s
95th percentile per-packet one-way delay: 53.681 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 55.394 ms
Loss rate: 0.00%
```

Run 6: Report of WebRTC media — Data Link

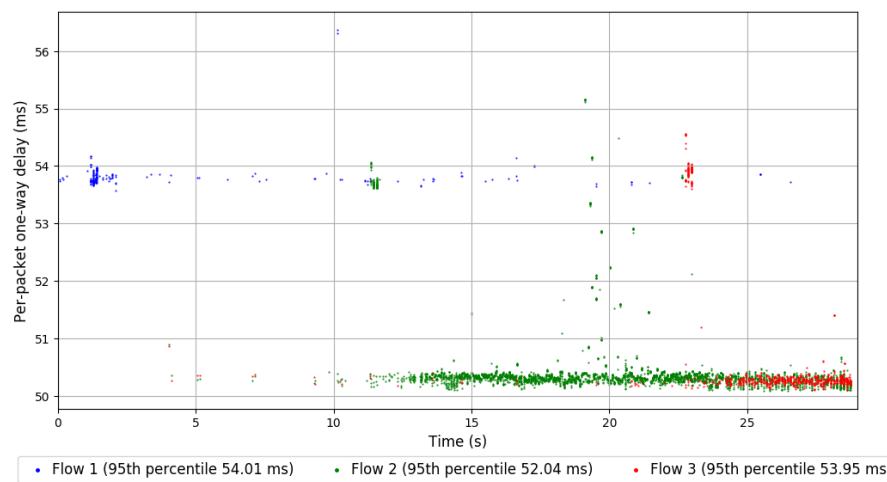
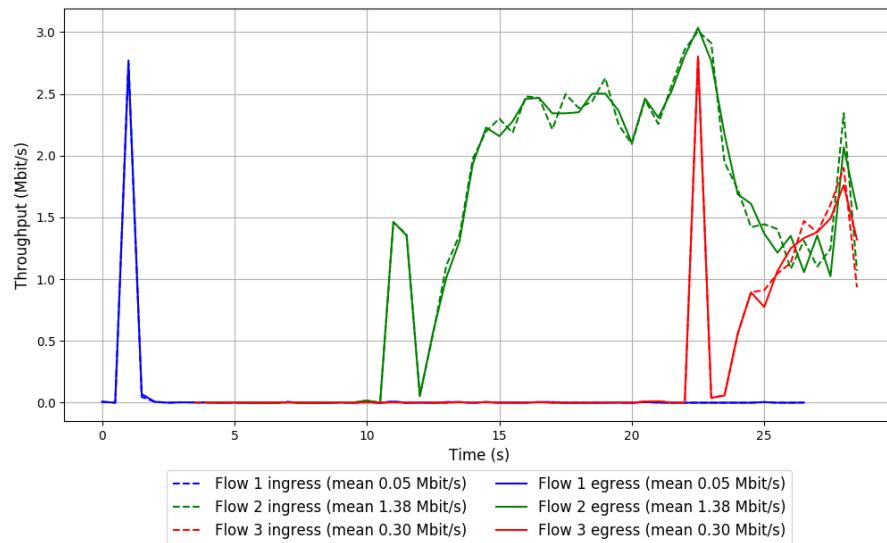


```
Run 7: Statistics of WebRTC media

Start at: 2017-08-21 08:17:24
End at: 2017-08-21 08:17:54

# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.50 Mbit/s
95th percentile per-packet one-way delay: 53.775 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 52.044 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 53.950 ms
Loss rate: 0.00%
```

Run 7: Report of WebRTC media — Data Link



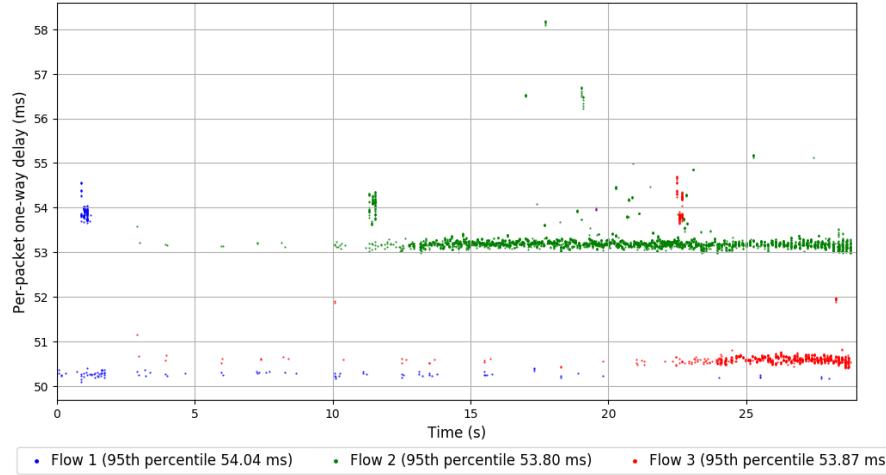
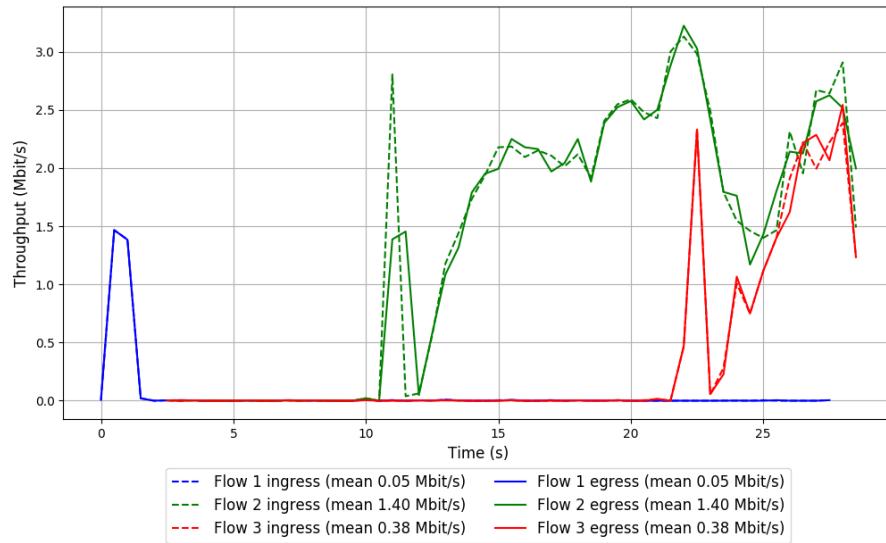
Run 8: Statistics of WebRTC media

Start at: 2017-08-21 08:28:17

End at: 2017-08-21 08:28:47

```
# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.65 Mbit/s
95th percentile per-packet one-way delay: 53.934 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.043 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 53.800 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.38 Mbit/s
95th percentile per-packet one-way delay: 53.866 ms
Loss rate: 0.00%
```

Run 8: Report of WebRTC media — Data Link

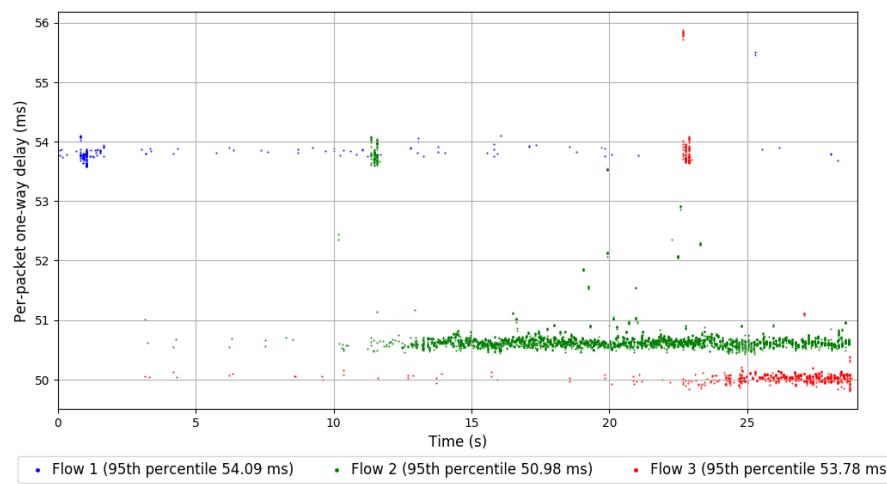
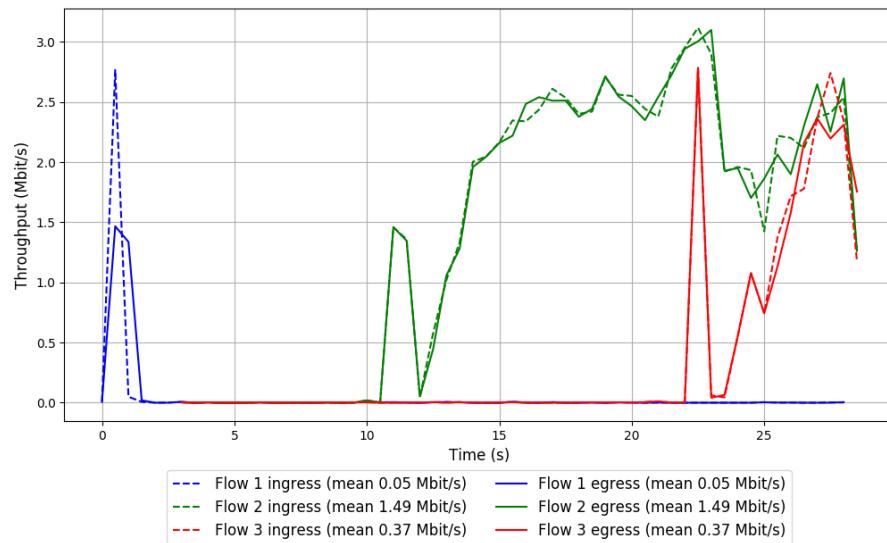


```
Run 9: Statistics of WebRTC media

Start at: 2017-08-21 08:39:06
End at: 2017-08-21 08:39:36

# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.70 Mbit/s
95th percentile per-packet one-way delay: 53.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.085 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.49 Mbit/s
95th percentile per-packet one-way delay: 50.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.37 Mbit/s
95th percentile per-packet one-way delay: 53.784 ms
Loss rate: 0.00%
```

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2017-08-21 08:49:59

End at: 2017-08-21 08:50:29

```
# Below is generated by plot.py at 2017-08-21 09:59:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.63 Mbit/s
95th percentile per-packet one-way delay: 53.760 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 55.194 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.47 Mbit/s
95th percentile per-packet one-way delay: 51.332 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 53.840 ms
Loss rate: 0.00%
```

Run 10: Report of WebRTC media — Data Link

