

Pantheon Report

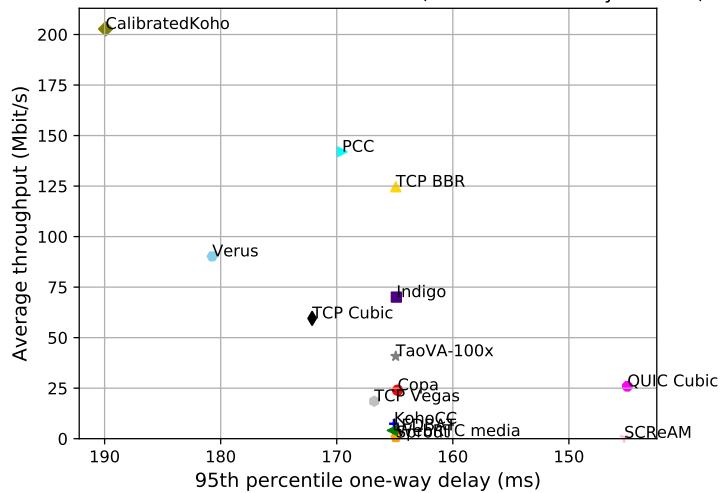
Generated at 2017-09-08 16:20:27 (UTC).
Data path: GCE London Ethernet (*remote*) → GCE Sydney Ethernet (*local*).
Repeated the test of 15 congestion control schemes 10 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

Increased UDP receive buffer to 16 MB (default) and 32 MB (max).
Tested BBR with qdisc of Fair Queuing (**fq**), and other schemes with the default Linux qdisc (**pfifo_fast**).

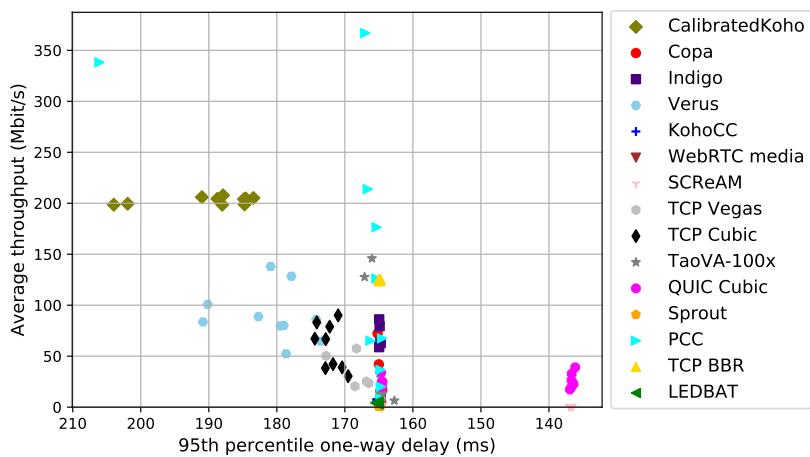
Git summary:

```
branch: master @ 2a98508c2457474d84cd2966a42b80b0bc62ecaf
third_party/calibrated_koho @ 3cb73c0d1c0322cdfae446ea37a522e53227db50
M datagrump/sender.cc
third_party/genericCC @ f7ca42f251bf49b432bb71de6d13fa903515c366
third_party/indigo @ 10192113fb6902d25c86e0e3e4c85d7a05e43d7e
third_party/koho_cc @ f0f2e693303aee82ea808e6928eac4f1083a6681
M datagrump/sender.cc
third_party/libutp @ b3465b942e2826f2b179aab4a906ce6bb7cf3cf
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 @ 6f2ef6e088d91066a9f023df375eee2665089ce
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 London Ethernet to GCE Sydney Ethernet, 10 runs of 30s each per scheme
 3 flows with 10s interval between flows (mean of all runs by scheme)



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



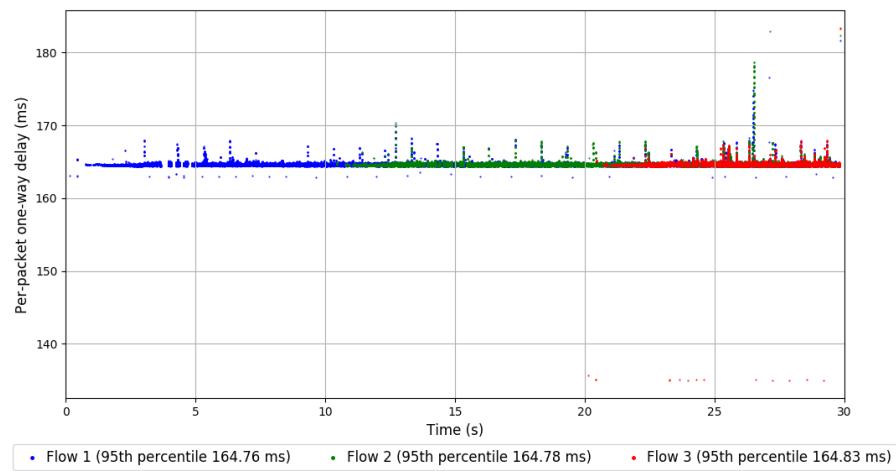
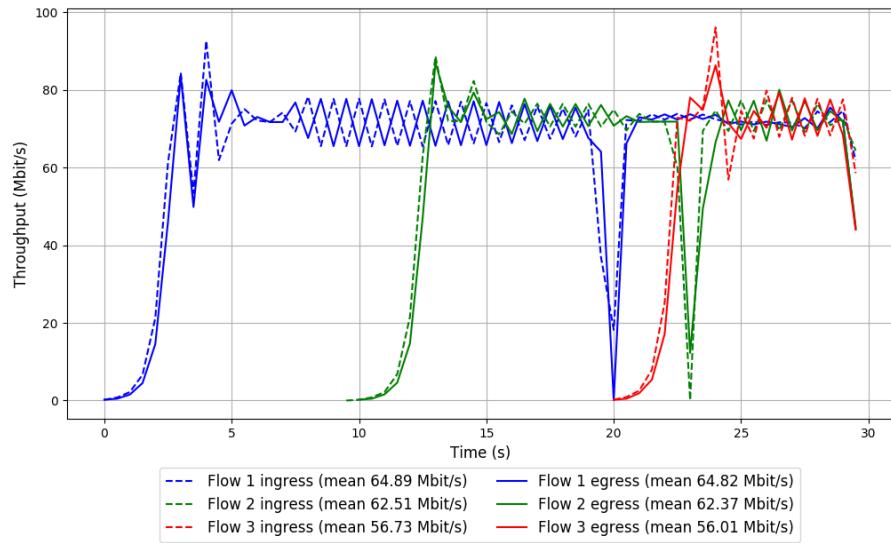
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	65.15	62.36	56.09	164.89	164.92	164.95	0.97	1.76	3.86
CalibratedKoho	10	160.46	60.36	7.01	192.30	181.73	166.94	1.35	4.71	11.06
Copa	10	12.62	14.95	10.43	164.72	164.80	164.77	0.59	1.05	5.68
TCP Cubic	9	35.89	27.21	16.62	497.39	169.31	171.17	1.37	3.46	8.57
Indigo	5	28.02	44.03	34.70	164.80	164.89	164.94	1.37	1.50	4.18
KohoCC	10	3.81	3.73	3.42	165.07	165.07	165.07	1.06	1.61	3.52
LEDBAT	10	2.58	1.82	0.97	165.27	165.12	165.08	2.13	2.82	5.81
PCC	10	69.48	70.50	71.05	170.70	164.83	165.45	0.95	1.34	3.85
QUIC Cubic	10	7.78	20.56	14.01	139.38	141.86	142.09	0.28	1.91	3.78
SCReAM	10	0.22	0.22	0.21	136.42	139.39	144.83	0.87	1.42	2.67
Sprout	10	0.26	0.35	0.33	164.88	164.91	164.87	0.90	1.39	2.93
TaoVA-100x	9	24.43	27.69	11.24	164.62	165.57	164.58	0.70	1.58	4.13
TCP Vegas	10	12.01	5.57	8.80	166.08	165.60	166.38	1.00	1.56	3.04
Verus	10	47.18	51.77	29.27	180.16	194.83	187.24	0.81	1.78	3.59
WebRTC media	9	0.06	1.31	0.18	165.19	143.51	165.25	0.03	1.78	9.41

```
Run 1: Statistics of TCP BBR

Start at: 2017-09-08 11:08:58
End at: 2017-09-08 11:09:28

# Below is generated by plot.py at 2017-09-08 16:05:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.48 Mbit/s
95th percentile per-packet one-way delay: 164.778 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 64.82 Mbit/s
95th percentile per-packet one-way delay: 164.762 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 62.37 Mbit/s
95th percentile per-packet one-way delay: 164.781 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 56.01 Mbit/s
95th percentile per-packet one-way delay: 164.832 ms
Loss rate: 3.82%
```

Run 1: Report of TCP BBR — Data Link



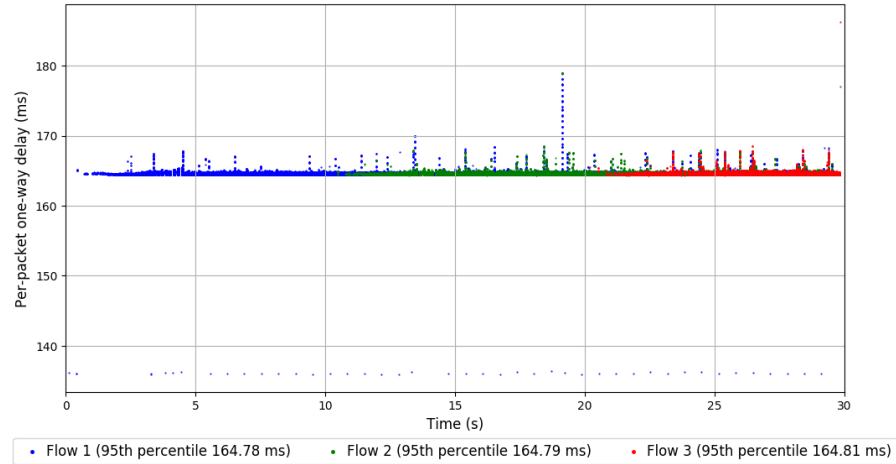
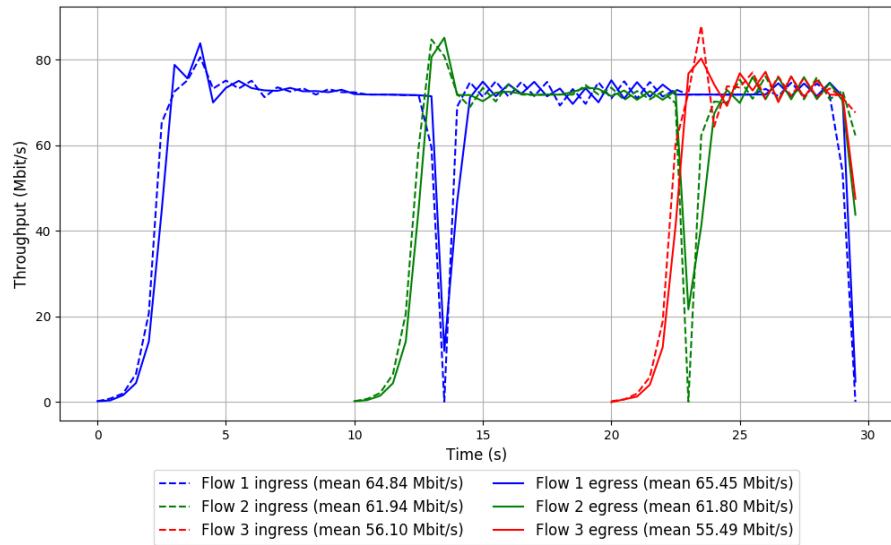
Run 2: Statistics of TCP BBR

Start at: 2017-09-08 11:22:57

End at: 2017-09-08 11:23:27

```
# Below is generated by plot.py at 2017-09-08 16:05:38
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.70 Mbit/s
95th percentile per-packet one-way delay: 164.790 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 65.45 Mbit/s
95th percentile per-packet one-way delay: 164.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.80 Mbit/s
95th percentile per-packet one-way delay: 164.791 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 55.49 Mbit/s
95th percentile per-packet one-way delay: 164.809 ms
Loss rate: 3.90%
```

Run 2: Report of TCP BBR — Data Link



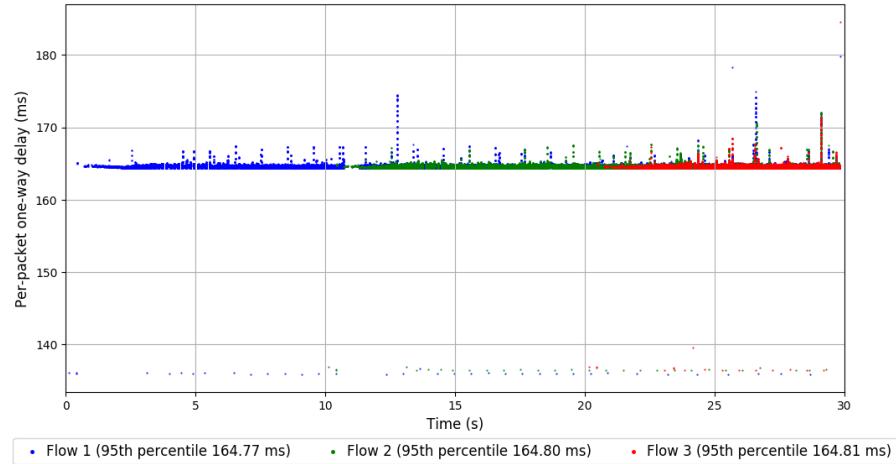
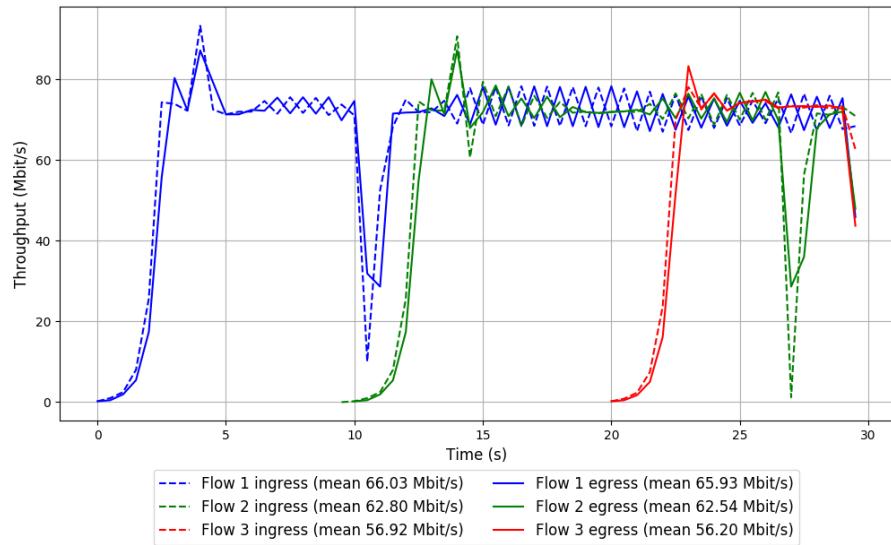
Run 3: Statistics of TCP BBR

Start at: 2017-09-08 11:36:47

End at: 2017-09-08 11:37:17

```
# Below is generated by plot.py at 2017-09-08 16:06:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.59 Mbit/s
95th percentile per-packet one-way delay: 164.787 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 65.93 Mbit/s
95th percentile per-packet one-way delay: 164.773 ms
Loss rate: 1.07%
-- Flow 2:
Average throughput: 62.54 Mbit/s
95th percentile per-packet one-way delay: 164.800 ms
Loss rate: 1.92%
-- Flow 3:
Average throughput: 56.20 Mbit/s
95th percentile per-packet one-way delay: 164.806 ms
Loss rate: 3.82%
```

Run 3: Report of TCP BBR — Data Link



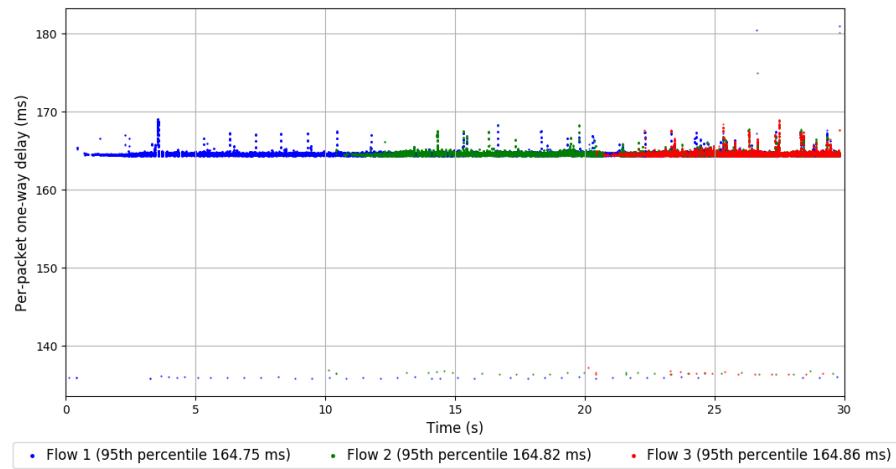
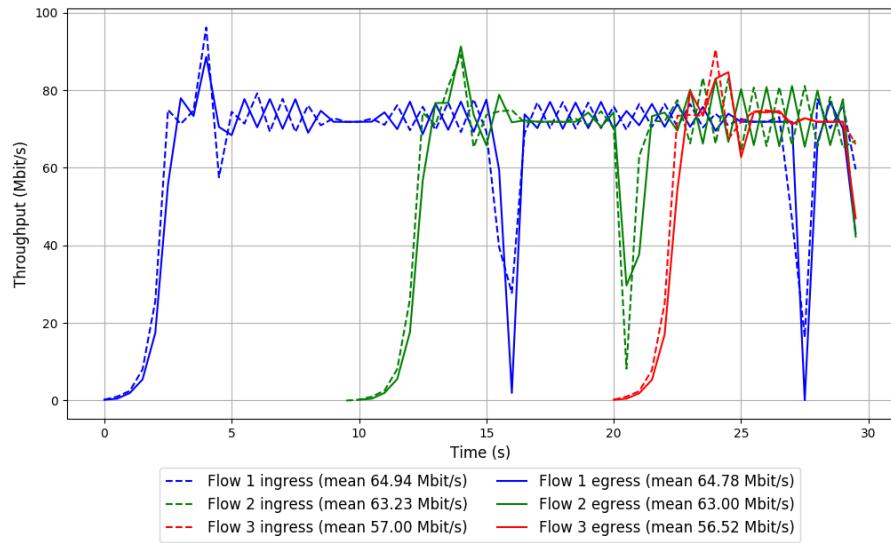
Run 4: Statistics of TCP BBR

Start at: 2017-09-08 11:50:46

End at: 2017-09-08 11:51:16

```
# Below is generated by plot.py at 2017-09-08 16:06:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.98 Mbit/s
95th percentile per-packet one-way delay: 164.793 ms
Loss rate: 1.70%
-- Flow 1:
Average throughput: 64.78 Mbit/s
95th percentile per-packet one-way delay: 164.752 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 63.00 Mbit/s
95th percentile per-packet one-way delay: 164.817 ms
Loss rate: 1.68%
-- Flow 3:
Average throughput: 56.52 Mbit/s
95th percentile per-packet one-way delay: 164.857 ms
Loss rate: 3.79%
```

Run 4: Report of TCP BBR — Data Link



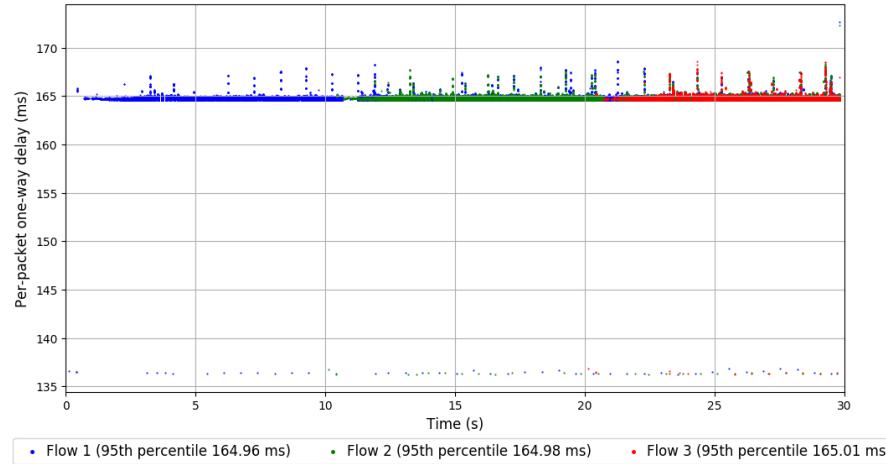
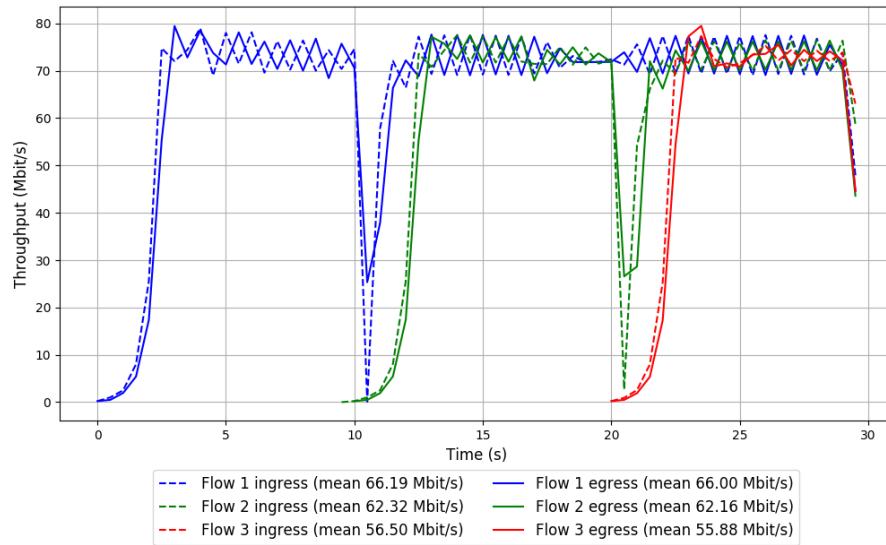
Run 5: Statistics of TCP BBR

Start at: 2017-09-08 12:04:09

End at: 2017-09-08 12:04:39

```
# Below is generated by plot.py at 2017-09-08 16:06:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.42 Mbit/s
95th percentile per-packet one-way delay: 164.972 ms
Loss rate: 1.50%
-- Flow 1:
Average throughput: 66.00 Mbit/s
95th percentile per-packet one-way delay: 164.958 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 62.16 Mbit/s
95th percentile per-packet one-way delay: 164.980 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 55.88 Mbit/s
95th percentile per-packet one-way delay: 165.007 ms
Loss rate: 3.83%
```

Run 5: Report of TCP BBR — Data Link



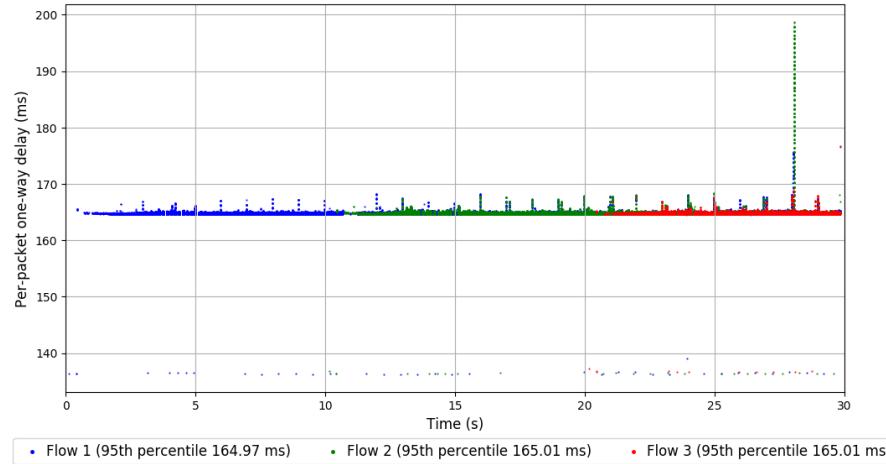
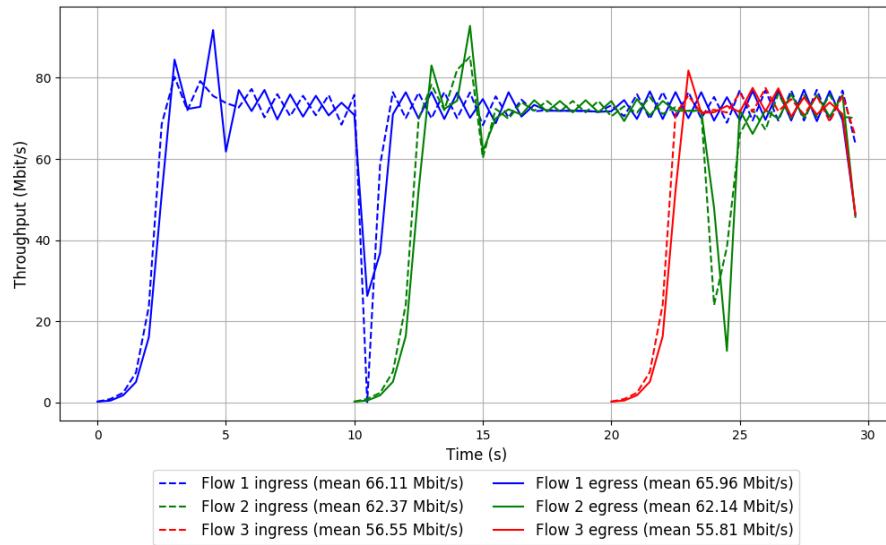
Run 6: Statistics of TCP BBR

Start at: 2017-09-08 12:17:18

End at: 2017-09-08 12:17:48

```
# Below is generated by plot.py at 2017-09-08 16:06:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.30 Mbit/s
95th percentile per-packet one-way delay: 164.992 ms
Loss rate: 1.80%
-- Flow 1:
Average throughput: 65.96 Mbit/s
95th percentile per-packet one-way delay: 164.972 ms
Loss rate: 1.14%
-- Flow 2:
Average throughput: 62.14 Mbit/s
95th percentile per-packet one-way delay: 165.014 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 55.81 Mbit/s
95th percentile per-packet one-way delay: 165.014 ms
Loss rate: 4.05%
```

Run 6: Report of TCP BBR — Data Link



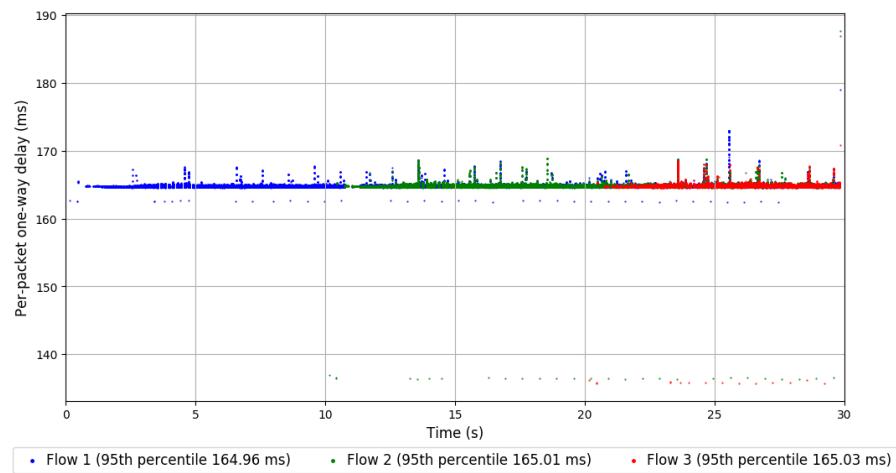
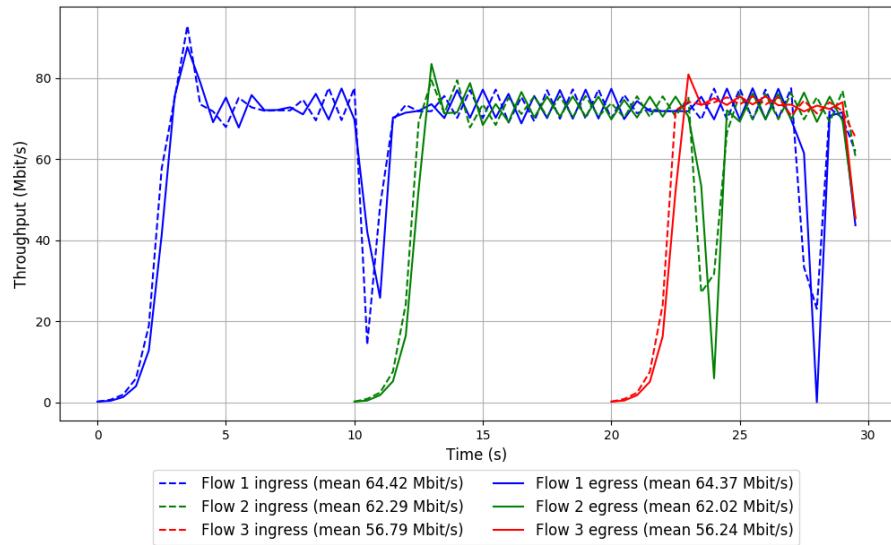
Run 7: Statistics of TCP BBR

Start at: 2017-09-08 12:30:37

End at: 2017-09-08 12:31:07

```
# Below is generated by plot.py at 2017-09-08 16:06:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.82 Mbit/s
95th percentile per-packet one-way delay: 164.987 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 64.37 Mbit/s
95th percentile per-packet one-way delay: 164.956 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 62.02 Mbit/s
95th percentile per-packet one-way delay: 165.013 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 56.24 Mbit/s
95th percentile per-packet one-way delay: 165.033 ms
Loss rate: 3.80%
```

Run 7: Report of TCP BBR — Data Link



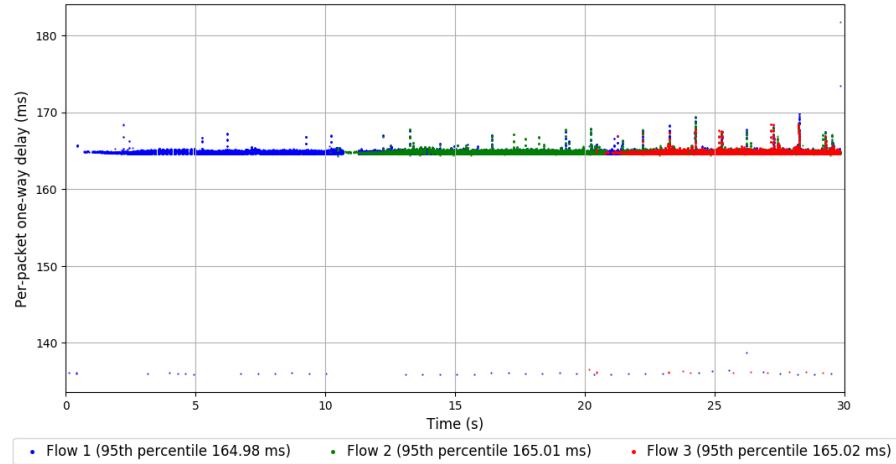
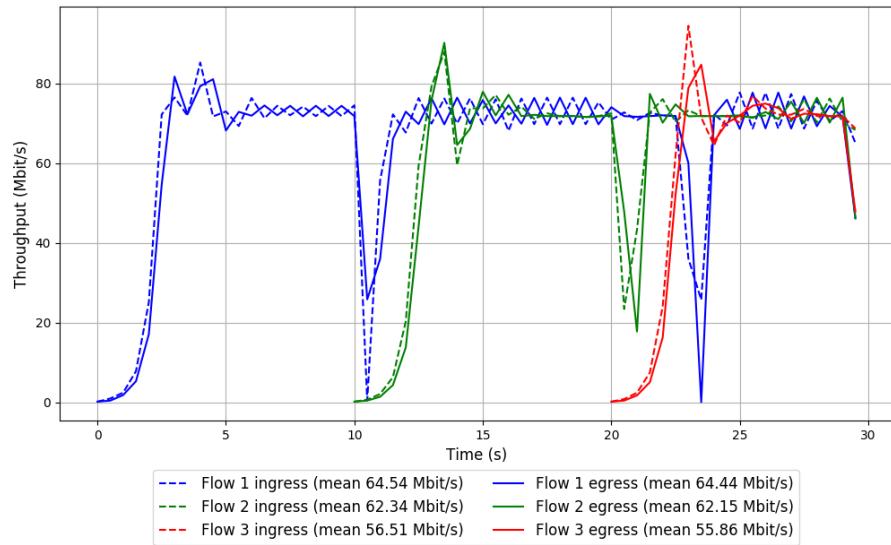
Run 8: Statistics of TCP BBR

Start at: 2017-09-08 12:43:58

End at: 2017-09-08 12:44:28

```
# Below is generated by plot.py at 2017-09-08 16:06:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.71 Mbit/s
95th percentile per-packet one-way delay: 164.998 ms
Loss rate: 1.75%
-- Flow 1:
Average throughput: 64.44 Mbit/s
95th percentile per-packet one-way delay: 164.984 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 62.15 Mbit/s
95th percentile per-packet one-way delay: 165.012 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 55.86 Mbit/s
95th percentile per-packet one-way delay: 165.020 ms
Loss rate: 3.99%
```

Run 8: Report of TCP BBR — Data Link



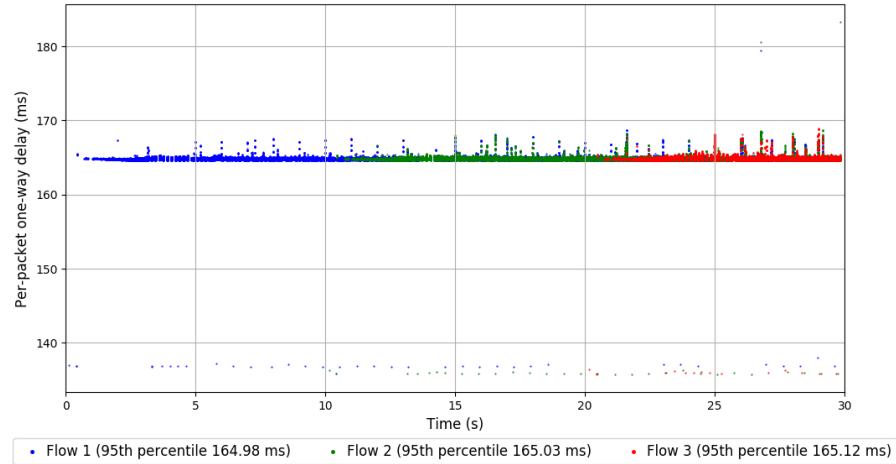
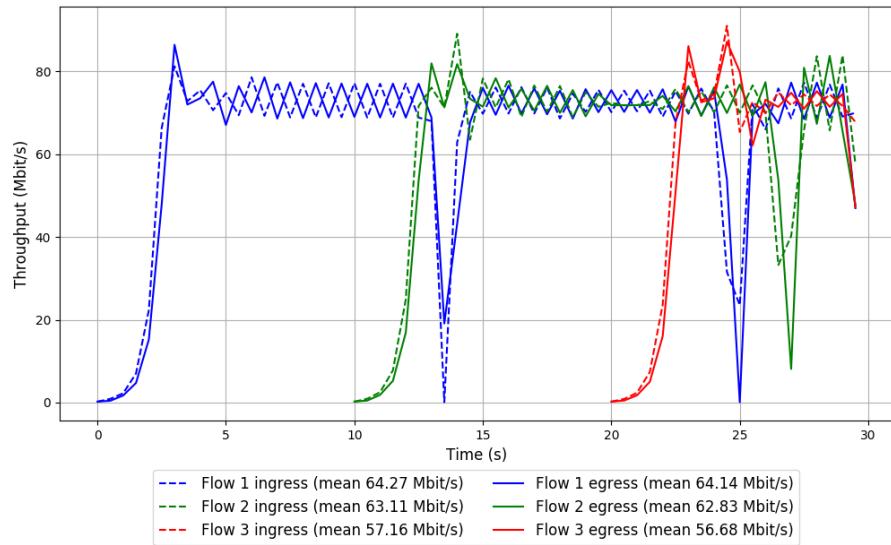
Run 9: Statistics of TCP BBR

Start at: 2017-09-08 12:57:23

End at: 2017-09-08 12:57:53

```
# Below is generated by plot.py at 2017-09-08 16:07:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 124.17 Mbit/s
95th percentile per-packet one-way delay: 165.021 ms
Loss rate: 1.73%
-- Flow 1:
Average throughput: 64.14 Mbit/s
95th percentile per-packet one-way delay: 164.984 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 62.83 Mbit/s
95th percentile per-packet one-way delay: 165.025 ms
Loss rate: 1.73%
-- Flow 3:
Average throughput: 56.68 Mbit/s
95th percentile per-packet one-way delay: 165.125 ms
Loss rate: 3.79%
```

Run 9: Report of TCP BBR — Data Link



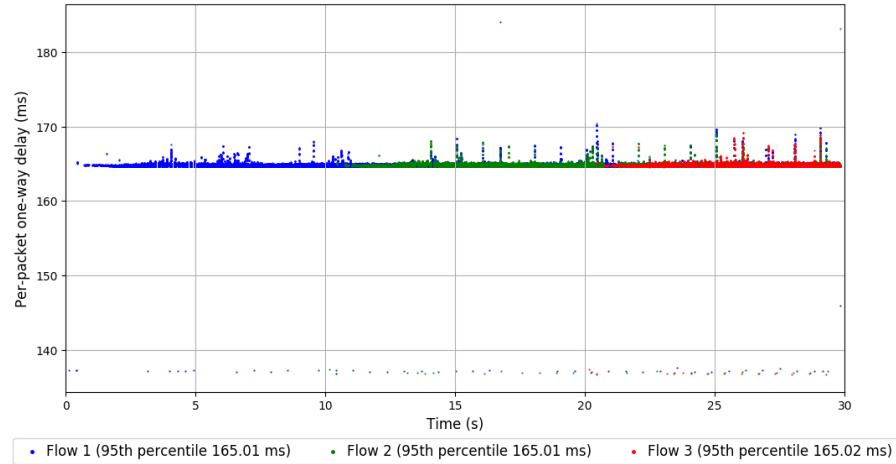
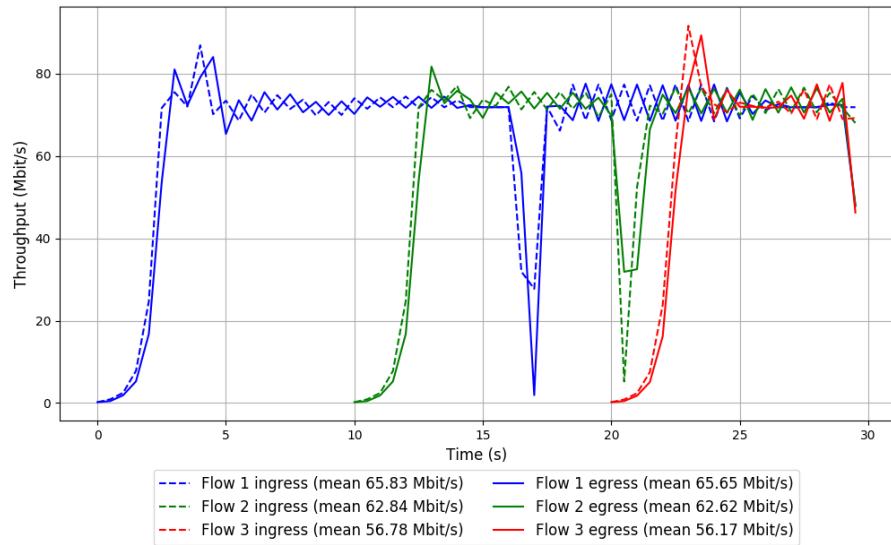
Run 10: Statistics of TCP BBR

Start at: 2017-09-08 13:10:39

End at: 2017-09-08 13:11:09

```
# Below is generated by plot.py at 2017-09-08 16:07:20
# Datalink statistics
-- Total of 3 flows:
Average throughput: 125.38 Mbit/s
95th percentile per-packet one-way delay: 165.010 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 65.65 Mbit/s
95th percentile per-packet one-way delay: 165.008 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 62.62 Mbit/s
95th percentile per-packet one-way delay: 165.008 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 56.17 Mbit/s
95th percentile per-packet one-way delay: 165.021 ms
Loss rate: 3.78%
```

Run 10: Report of TCP BBR — Data Link

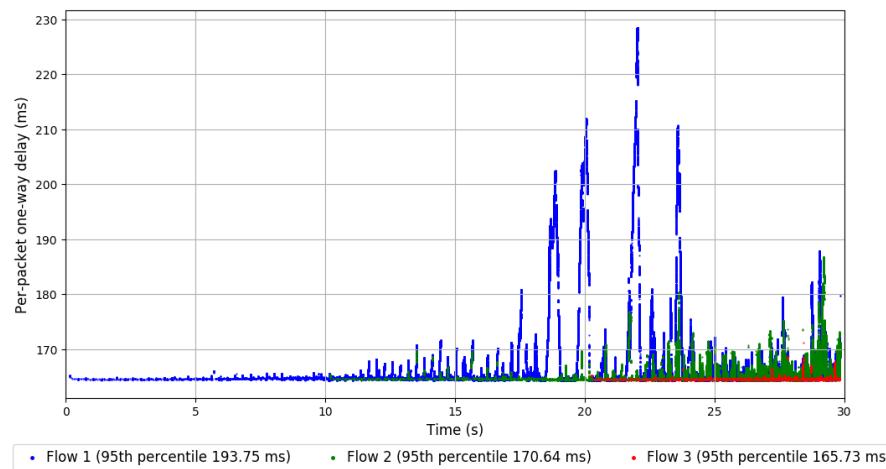
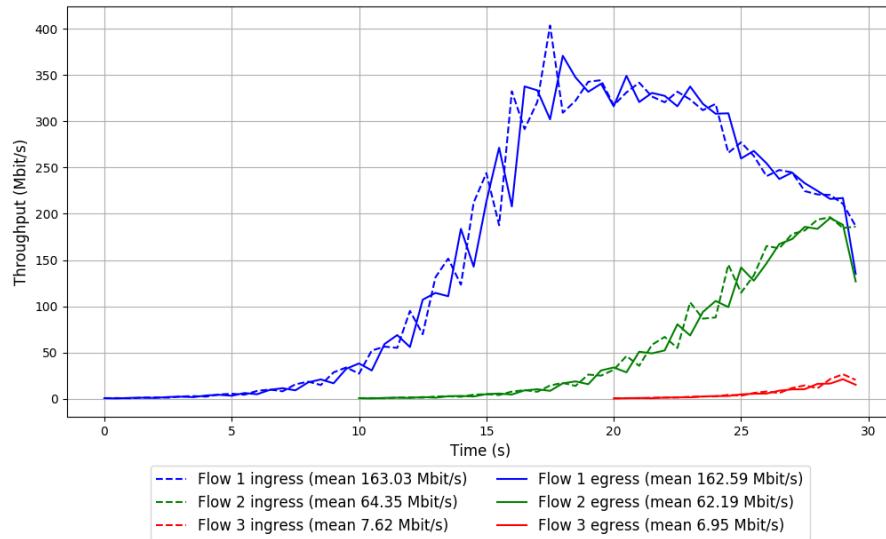


```
Run 1: Statistics of CalibratedKoho

Start at: 2017-09-08 11:01:36
End at: 2017-09-08 11:02:06

# Below is generated by plot.py at 2017-09-08 16:07:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 206.02 Mbit/s
95th percentile per-packet one-way delay: 191.017 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 162.59 Mbit/s
95th percentile per-packet one-way delay: 193.745 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 62.19 Mbit/s
95th percentile per-packet one-way delay: 170.642 ms
Loss rate: 4.80%
-- Flow 3:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 165.734 ms
Loss rate: 11.54%
```

Run 1: Report of CalibratedKoho — Data Link



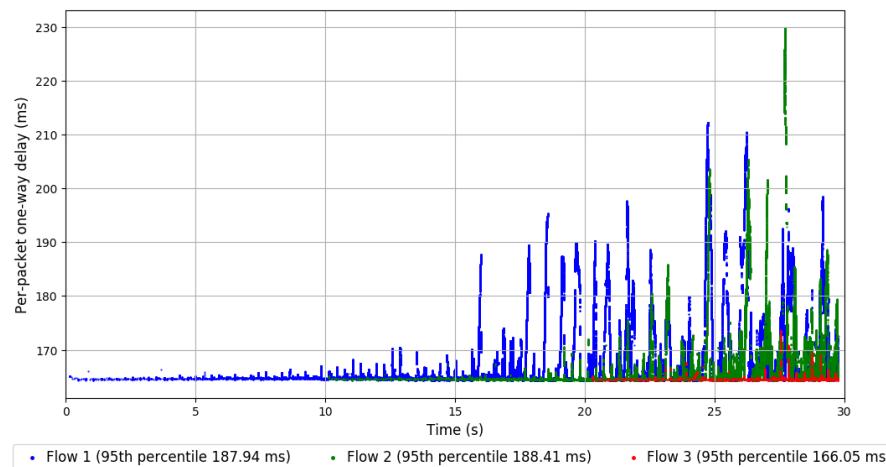
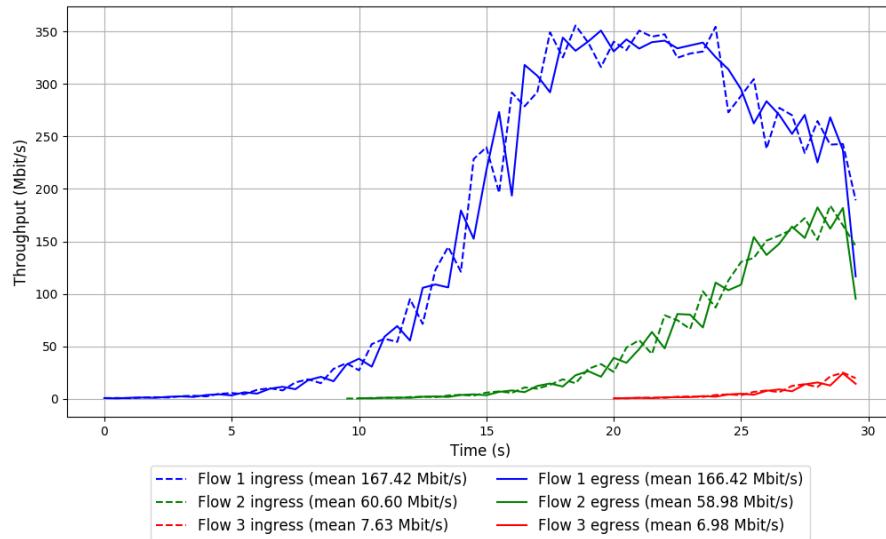
```
Run 2: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 11:15:32
```

```
End at: 2017-09-08 11:16:02
```

```
# Below is generated by plot.py at 2017-09-08 16:08:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 207.77 Mbit/s
95th percentile per-packet one-way delay: 187.908 ms
Loss rate: 2.20%
-- Flow 1:
Average throughput: 166.42 Mbit/s
95th percentile per-packet one-way delay: 187.944 ms
Loss rate: 1.60%
-- Flow 2:
Average throughput: 58.98 Mbit/s
95th percentile per-packet one-way delay: 188.414 ms
Loss rate: 4.13%
-- Flow 3:
Average throughput: 6.98 Mbit/s
95th percentile per-packet one-way delay: 166.052 ms
Loss rate: 11.27%
```

Run 2: Report of CalibratedKoho — Data Link



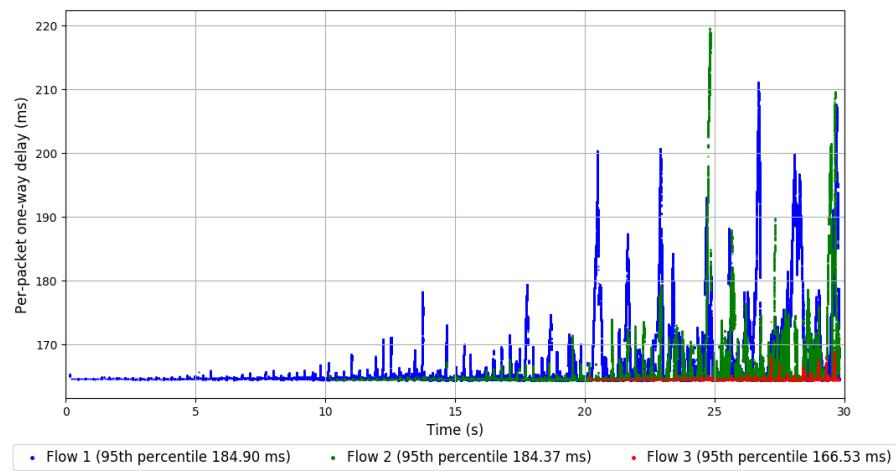
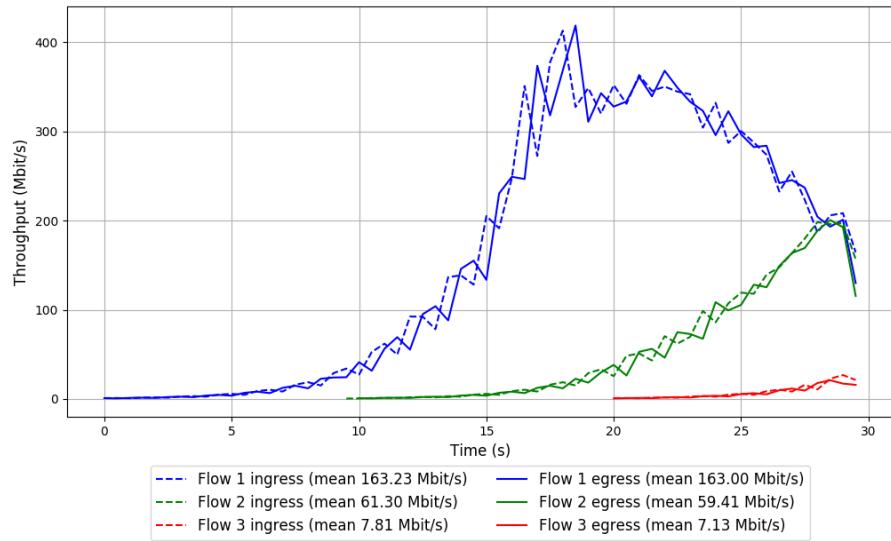
```
Run 3: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 11:29:30
```

```
End at: 2017-09-08 11:30:00
```

```
# Below is generated by plot.py at 2017-09-08 16:08:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.70 Mbit/s
95th percentile per-packet one-way delay: 184.576 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 163.00 Mbit/s
95th percentile per-packet one-way delay: 184.899 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 59.41 Mbit/s
95th percentile per-packet one-way delay: 184.373 ms
Loss rate: 4.57%
-- Flow 3:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 166.533 ms
Loss rate: 11.50%
```

Run 3: Report of CalibratedKoho — Data Link



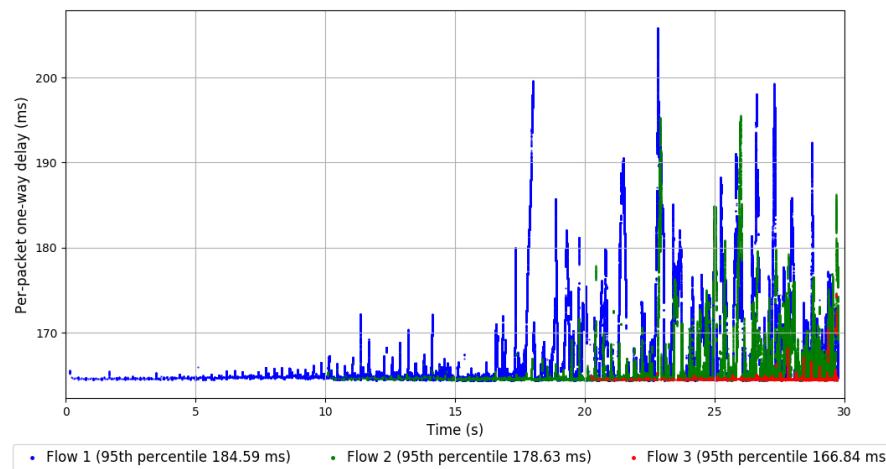
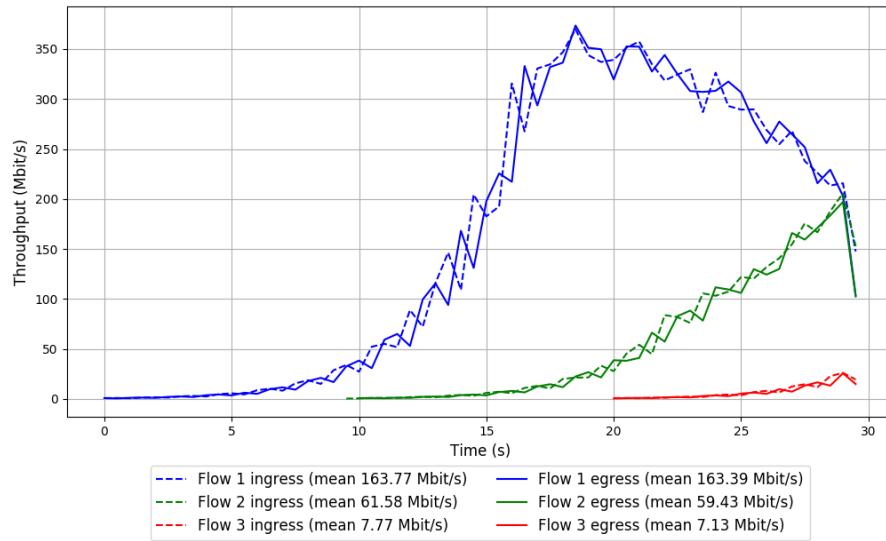
```
Run 4: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 11:43:27
```

```
End at: 2017-09-08 11:43:57
```

```
# Below is generated by plot.py at 2017-09-08 16:08:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 205.13 Mbit/s
95th percentile per-packet one-way delay: 183.447 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 163.39 Mbit/s
95th percentile per-packet one-way delay: 184.585 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 59.43 Mbit/s
95th percentile per-packet one-way delay: 178.634 ms
Loss rate: 4.95%
-- Flow 3:
Average throughput: 7.13 Mbit/s
95th percentile per-packet one-way delay: 166.836 ms
Loss rate: 11.01%
```

Run 4: Report of CalibratedKoho — Data Link



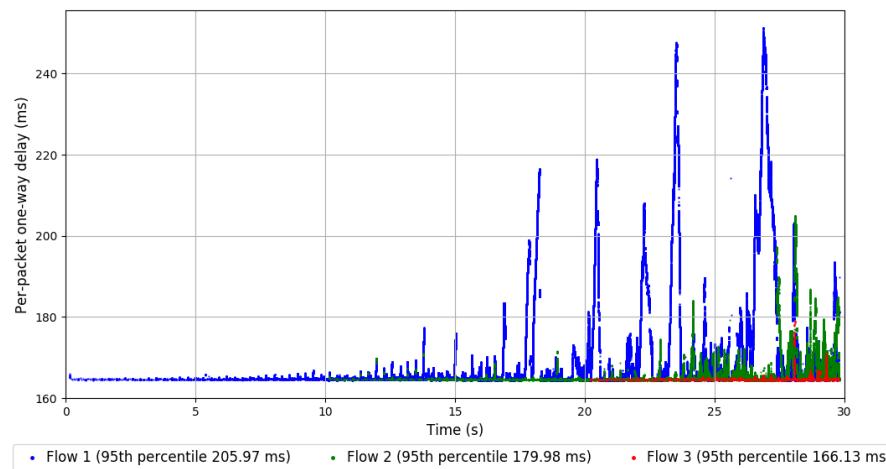
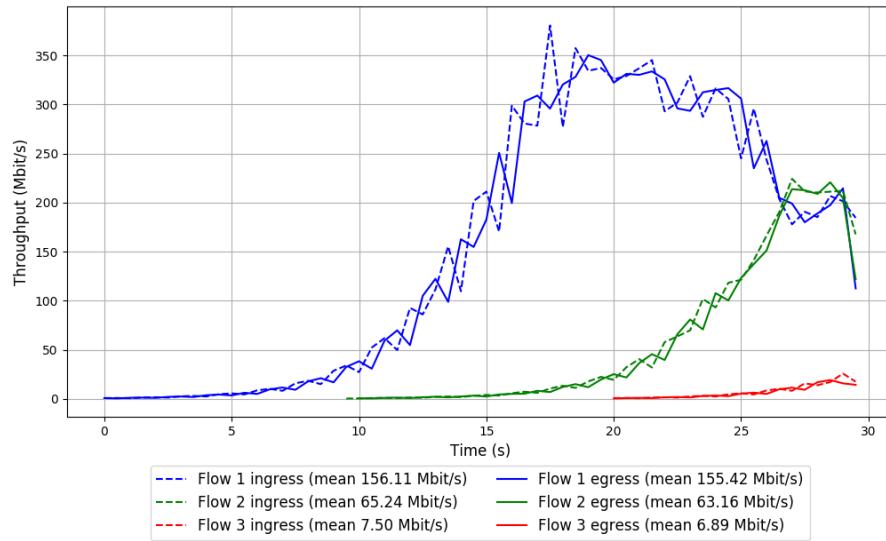
```
Run 5: Statistics of CalibratedKoho
```

```
Start at: 2017-09-08 11:57:03
```

```
End at: 2017-09-08 11:57:33
```

```
# Below is generated by plot.py at 2017-09-08 16:09:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 199.52 Mbit/s
95th percentile per-packet one-way delay: 201.930 ms
Loss rate: 2.26%
-- Flow 1:
Average throughput: 155.42 Mbit/s
95th percentile per-packet one-way delay: 205.968 ms
Loss rate: 1.45%
-- Flow 2:
Average throughput: 63.16 Mbit/s
95th percentile per-packet one-way delay: 179.982 ms
Loss rate: 4.66%
-- Flow 3:
Average throughput: 6.89 Mbit/s
95th percentile per-packet one-way delay: 166.126 ms
Loss rate: 10.94%
```

Run 5: Report of CalibratedKoho — Data Link



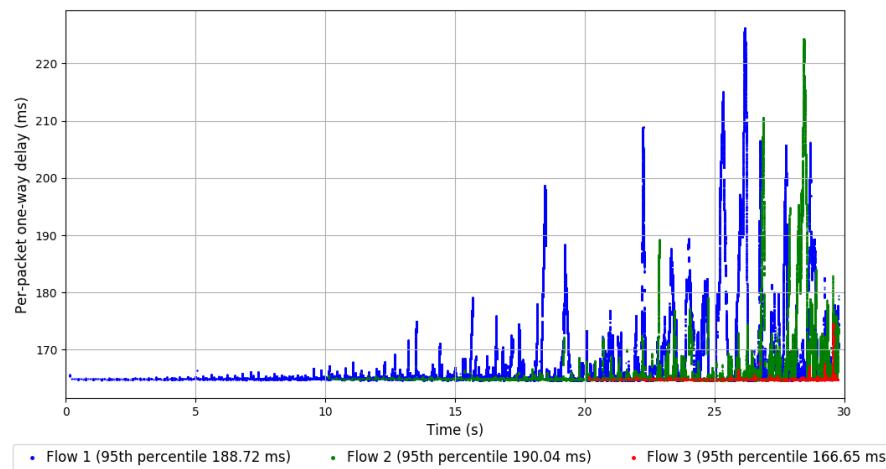
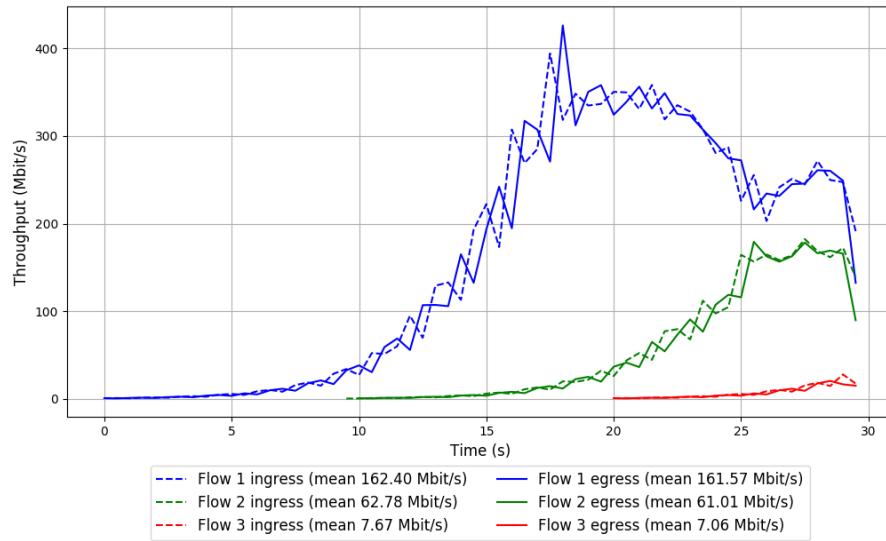
Run 6: Statistics of CalibratedKoho

Start at: 2017-09-08 12:10:18

End at: 2017-09-08 12:10:48

```
# Below is generated by plot.py at 2017-09-08 16:09:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 204.35 Mbit/s
95th percentile per-packet one-way delay: 188.737 ms
Loss rate: 2.17%
-- Flow 1:
Average throughput: 161.57 Mbit/s
95th percentile per-packet one-way delay: 188.724 ms
Loss rate: 1.49%
-- Flow 2:
Average throughput: 61.01 Mbit/s
95th percentile per-packet one-way delay: 190.042 ms
Loss rate: 4.28%
-- Flow 3:
Average throughput: 7.06 Mbit/s
95th percentile per-packet one-way delay: 166.647 ms
Loss rate: 10.80%
```

Run 6: Report of CalibratedKoho — Data Link



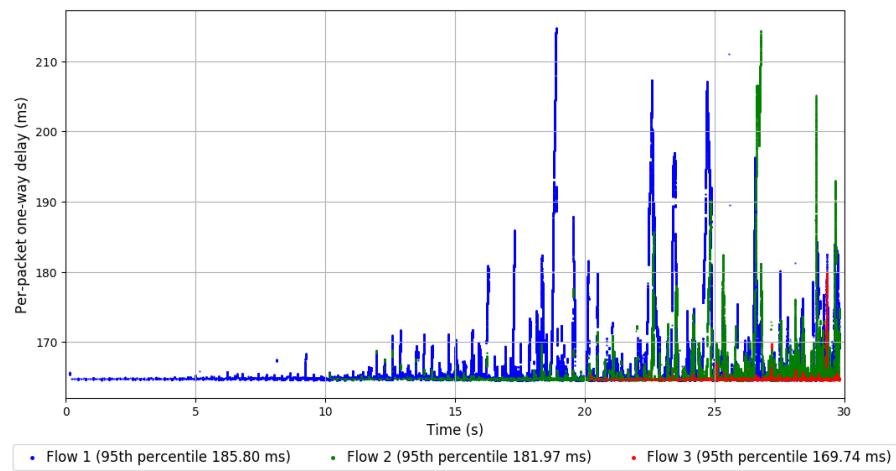
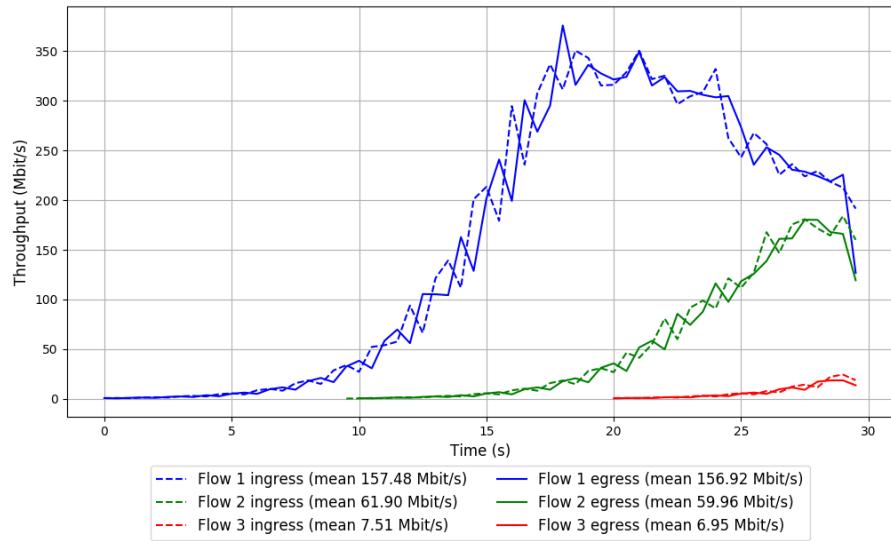
Run 7: Statistics of CalibratedKoho

Start at: 2017-09-08 12:23:32

End at: 2017-09-08 12:24:02

```
# Below is generated by plot.py at 2017-09-08 16:09:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.87 Mbit/s
95th percentile per-packet one-way delay: 184.742 ms
Loss rate: 2.12%
-- Flow 1:
Average throughput: 156.92 Mbit/s
95th percentile per-packet one-way delay: 185.796 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 59.96 Mbit/s
95th percentile per-packet one-way delay: 181.965 ms
Loss rate: 4.54%
-- Flow 3:
Average throughput: 6.95 Mbit/s
95th percentile per-packet one-way delay: 169.741 ms
Loss rate: 10.36%
```

Run 7: Report of CalibratedKoho — Data Link



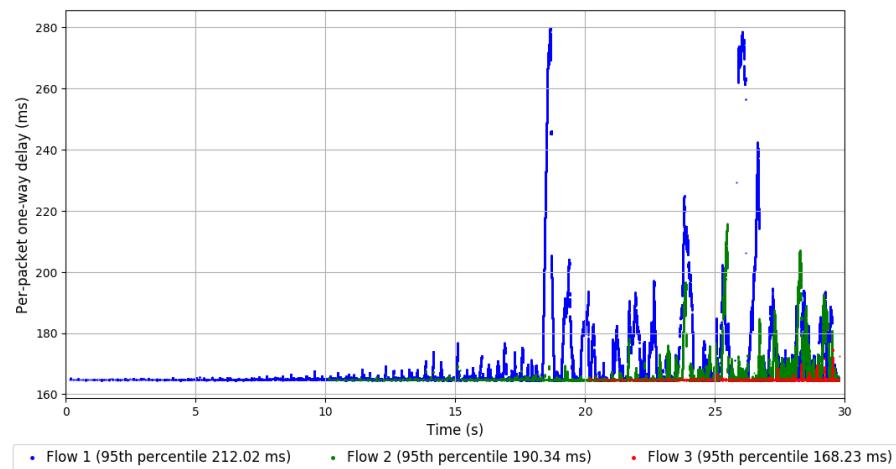
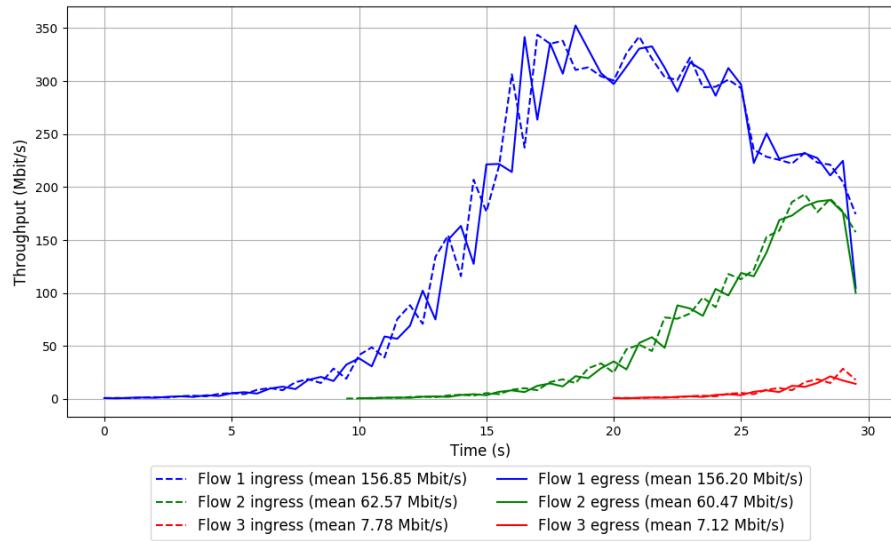
Run 8: Statistics of CalibratedKoho

Start at: 2017-09-08 12:36:56

End at: 2017-09-08 12:37:26

```
# Below is generated by plot.py at 2017-09-08 16:10:06
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.59 Mbit/s
95th percentile per-packet one-way delay: 203.969 ms
Loss rate: 2.24%
-- Flow 1:
Average throughput: 156.20 Mbit/s
95th percentile per-packet one-way delay: 212.018 ms
Loss rate: 1.42%
-- Flow 2:
Average throughput: 60.47 Mbit/s
95th percentile per-packet one-way delay: 190.337 ms
Loss rate: 4.79%
-- Flow 3:
Average throughput: 7.12 Mbit/s
95th percentile per-packet one-way delay: 168.228 ms
Loss rate: 11.18%
```

Run 8: Report of CalibratedKoho — Data Link



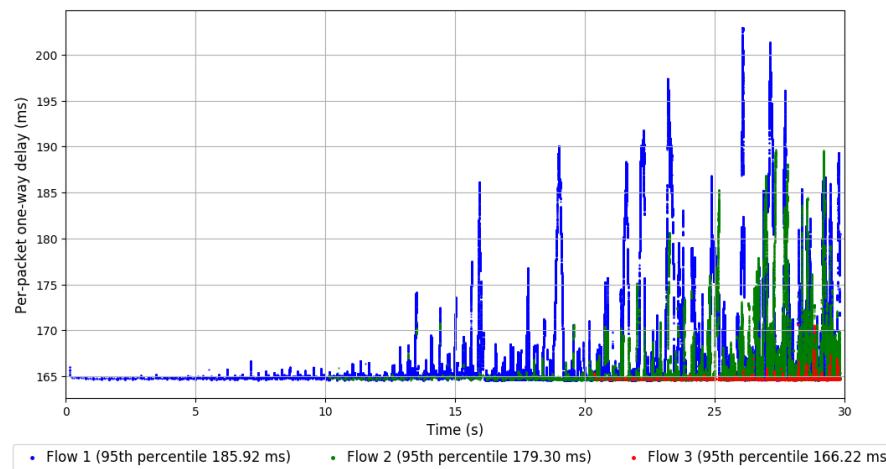
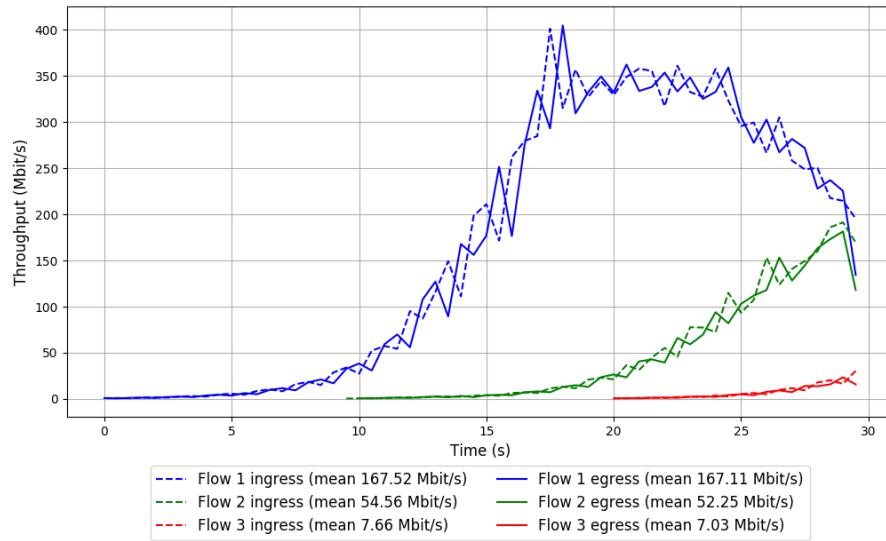
Run 9: Statistics of CalibratedKoho

Start at: 2017-09-08 12:50:15

End at: 2017-09-08 12:50:45

```
# Below is generated by plot.py at 2017-09-08 16:10:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.98 Mbit/s
95th percentile per-packet one-way delay: 184.832 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 167.11 Mbit/s
95th percentile per-packet one-way delay: 185.919 ms
Loss rate: 1.24%
-- Flow 2:
Average throughput: 52.25 Mbit/s
95th percentile per-packet one-way delay: 179.299 ms
Loss rate: 5.69%
-- Flow 3:
Average throughput: 7.03 Mbit/s
95th percentile per-packet one-way delay: 166.219 ms
Loss rate: 11.16%
```

Run 9: Report of CalibratedKoho — Data Link

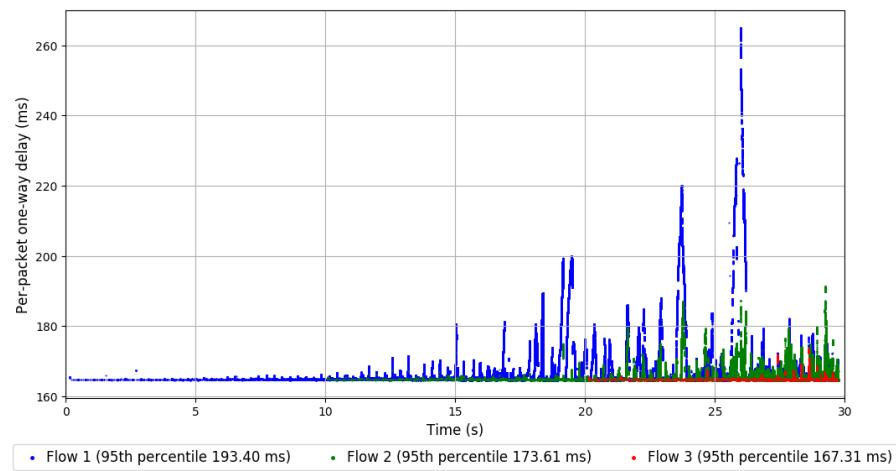
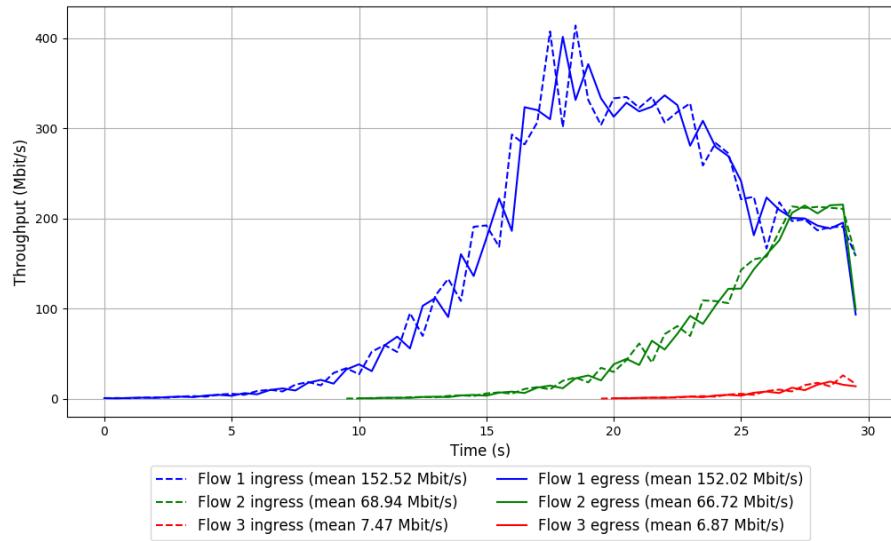


```
Run 10: Statistics of CalibratedKoho

Start at: 2017-09-08 13:03:39
End at: 2017-09-08 13:04:09

# Below is generated by plot.py at 2017-09-08 16:10:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.55 Mbit/s
95th percentile per-packet one-way delay: 188.020 ms
Loss rate: 2.22%
-- Flow 1:
Average throughput: 152.02 Mbit/s
95th percentile per-packet one-way delay: 193.398 ms
Loss rate: 1.34%
-- Flow 2:
Average throughput: 66.72 Mbit/s
95th percentile per-packet one-way delay: 173.613 ms
Loss rate: 4.66%
-- Flow 3:
Average throughput: 6.87 Mbit/s
95th percentile per-packet one-way delay: 167.309 ms
Loss rate: 10.89%
```

Run 10: Report of CalibratedKoho — Data Link



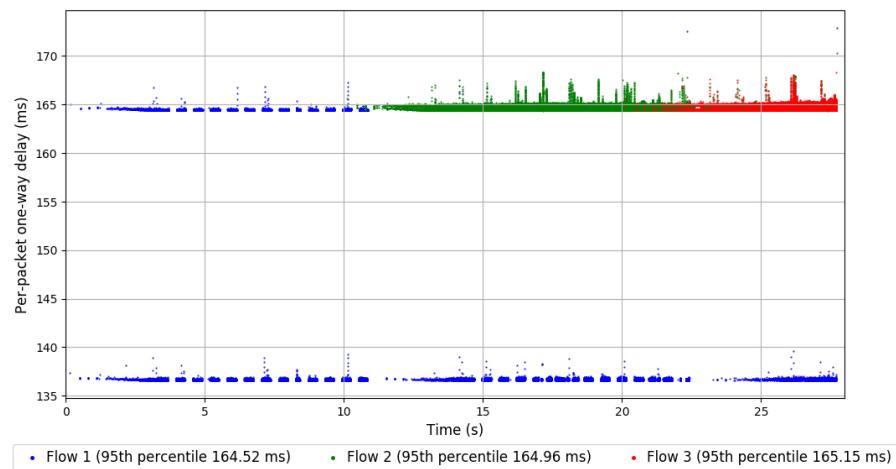
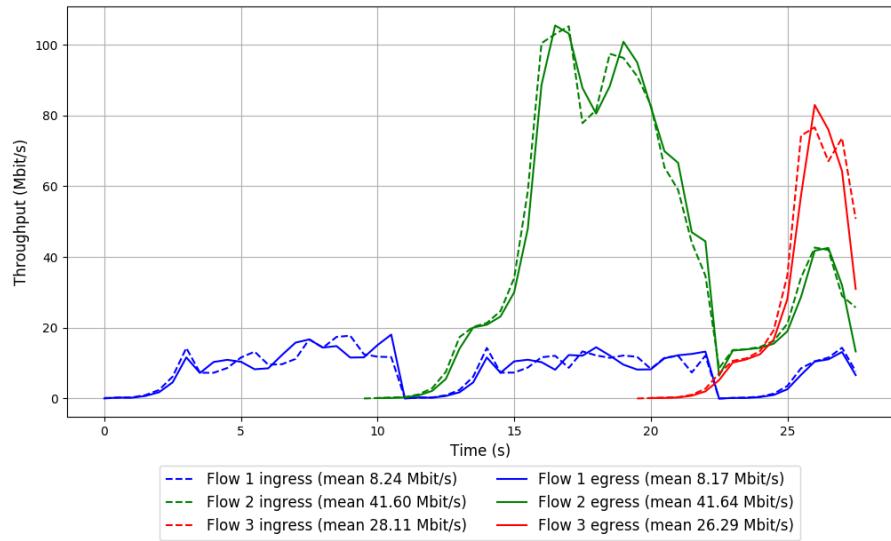
```
Run 1: Statistics of Copa
```

```
Start at: 2017-09-08 11:07:07
```

```
End at: 2017-09-08 11:07:37
```

```
# Below is generated by plot.py at 2017-09-08 16:10:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 41.99 Mbit/s
95th percentile per-packet one-way delay: 164.999 ms
Loss rate: 3.10%
-- Flow 1:
Average throughput: 8.17 Mbit/s
95th percentile per-packet one-way delay: 164.522 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 41.64 Mbit/s
95th percentile per-packet one-way delay: 164.964 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 26.29 Mbit/s
95th percentile per-packet one-way delay: 165.150 ms
Loss rate: 10.11%
```

Run 1: Report of Copa — Data Link



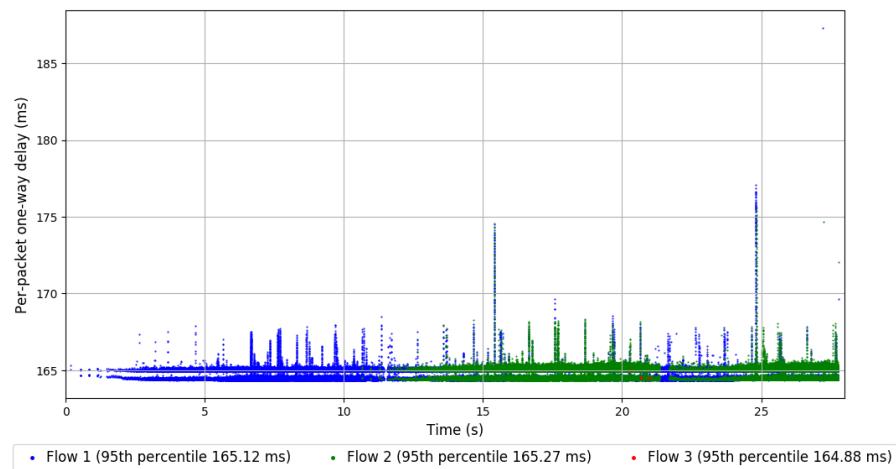
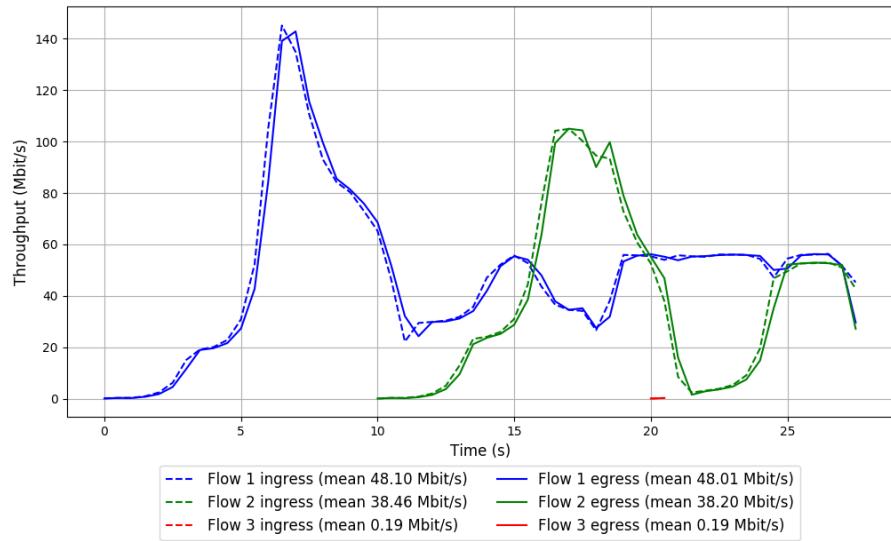
Run 2: Statistics of Copa

Start at: 2017-09-08 11:21:02

End at: 2017-09-08 11:21:32

```
# Below is generated by plot.py at 2017-09-08 16:11:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 72.19 Mbit/s
95th percentile per-packet one-way delay: 165.190 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 48.01 Mbit/s
95th percentile per-packet one-way delay: 165.125 ms
Loss rate: 1.26%
-- Flow 2:
Average throughput: 38.20 Mbit/s
95th percentile per-packet one-way delay: 165.273 ms
Loss rate: 2.34%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.880 ms
Loss rate: 0.00%
```

Run 2: Report of Copa — Data Link



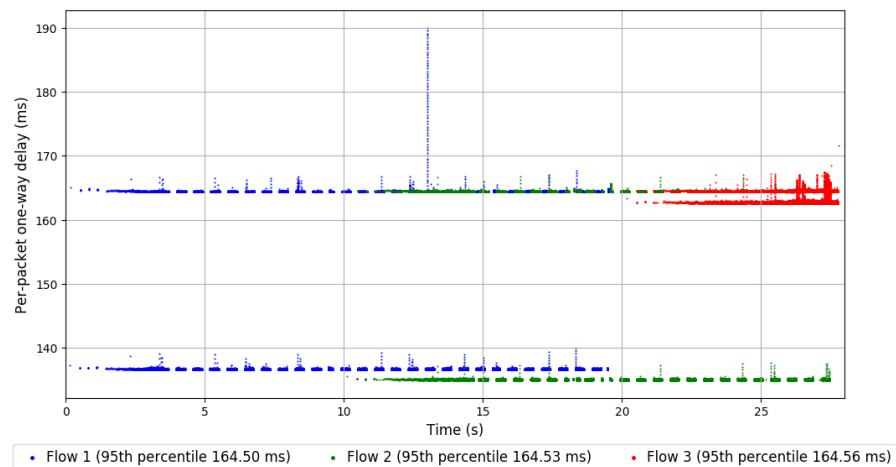
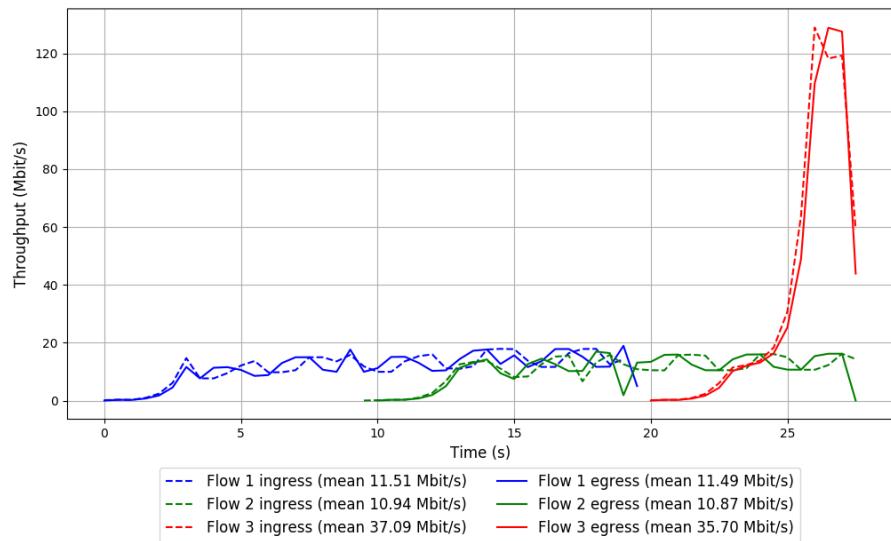
Run 3: Statistics of Copa

Start at: 2017-09-08 11:35:00

End at: 2017-09-08 11:35:30

```
# Below is generated by plot.py at 2017-09-08 16:11:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.71 Mbit/s
95th percentile per-packet one-way delay: 164.539 ms
Loss rate: 4.03%
-- Flow 1:
Average throughput: 11.49 Mbit/s
95th percentile per-packet one-way delay: 164.503 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.87 Mbit/s
95th percentile per-packet one-way delay: 164.533 ms
Loss rate: 3.66%
-- Flow 3:
Average throughput: 35.70 Mbit/s
95th percentile per-packet one-way delay: 164.563 ms
Loss rate: 7.34%
```

Run 3: Report of Copa — Data Link



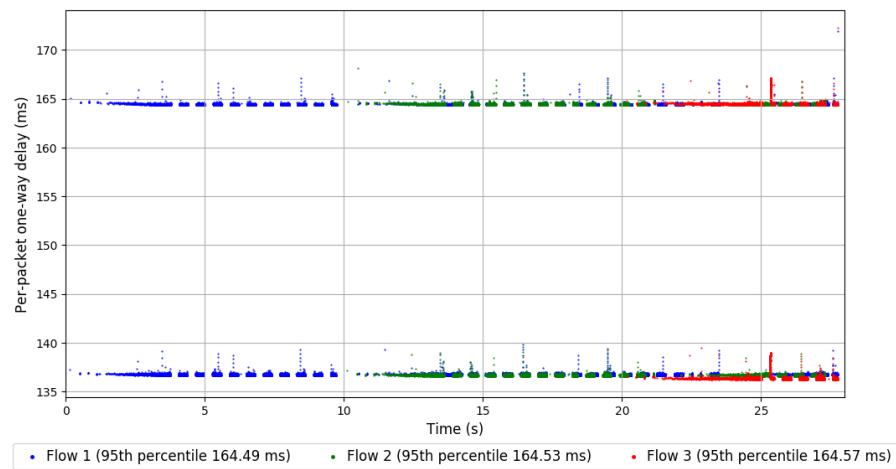
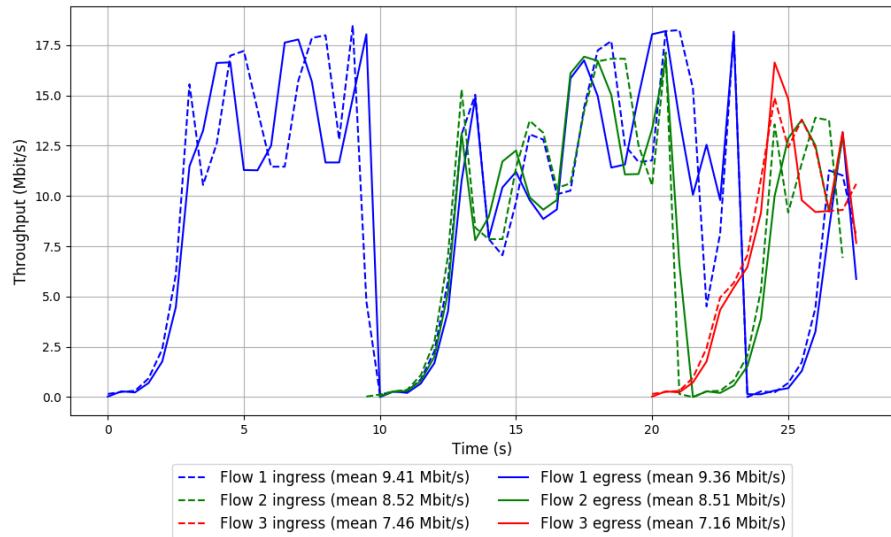
Run 4: Statistics of Copa

Start at: 2017-09-08 11:49:02

End at: 2017-09-08 11:49:32

```
# Below is generated by plot.py at 2017-09-08 16:11:10
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.63 Mbit/s
95th percentile per-packet one-way delay: 164.512 ms
Loss rate: 1.19%
-- Flow 1:
Average throughput: 9.36 Mbit/s
95th percentile per-packet one-way delay: 164.492 ms
Loss rate: 0.93%
-- Flow 2:
Average throughput: 8.51 Mbit/s
95th percentile per-packet one-way delay: 164.530 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.16 Mbit/s
95th percentile per-packet one-way delay: 164.569 ms
Loss rate: 5.45%
```

Run 4: Report of Copa — Data Link



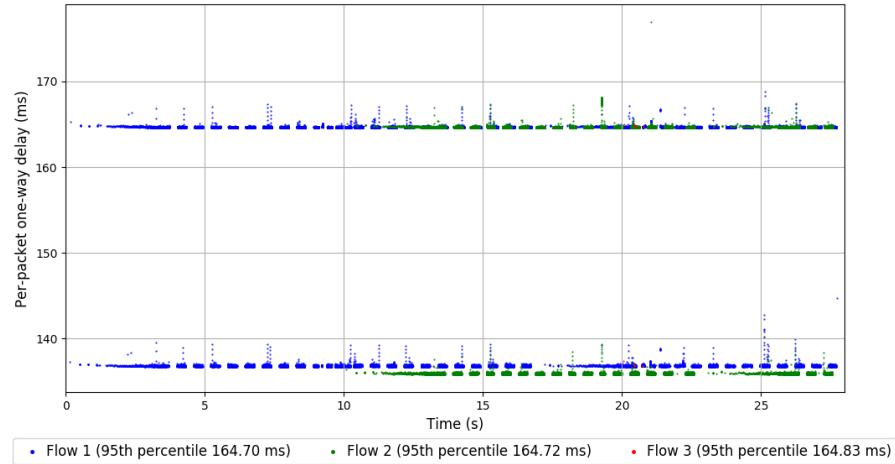
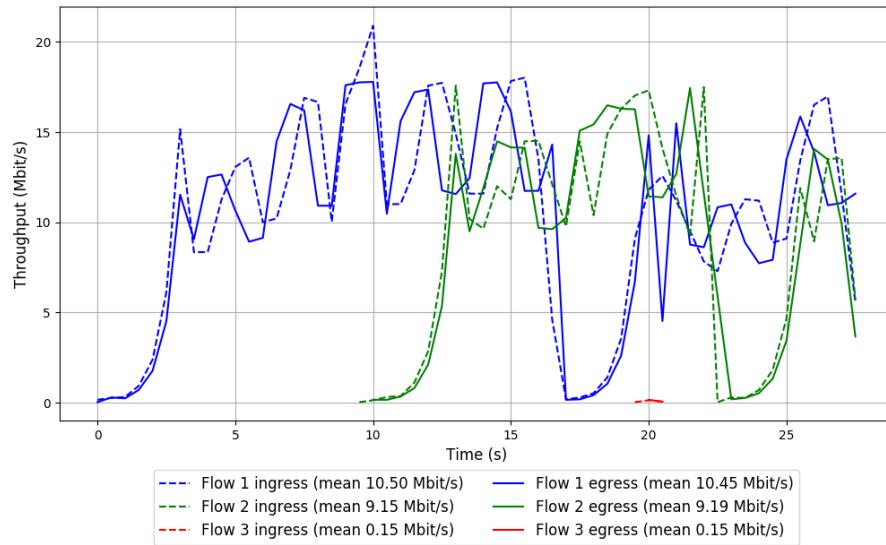
Run 5: Statistics of Copa

Start at: 2017-09-08 12:02:26

End at: 2017-09-08 12:02:56

```
# Below is generated by plot.py at 2017-09-08 16:11:11
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.30 Mbit/s
95th percentile per-packet one-way delay: 164.706 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 10.45 Mbit/s
95th percentile per-packet one-way delay: 164.700 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 9.19 Mbit/s
95th percentile per-packet one-way delay: 164.716 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 164.831 ms
Loss rate: 0.00%
```

Run 5: Report of Copa — Data Link



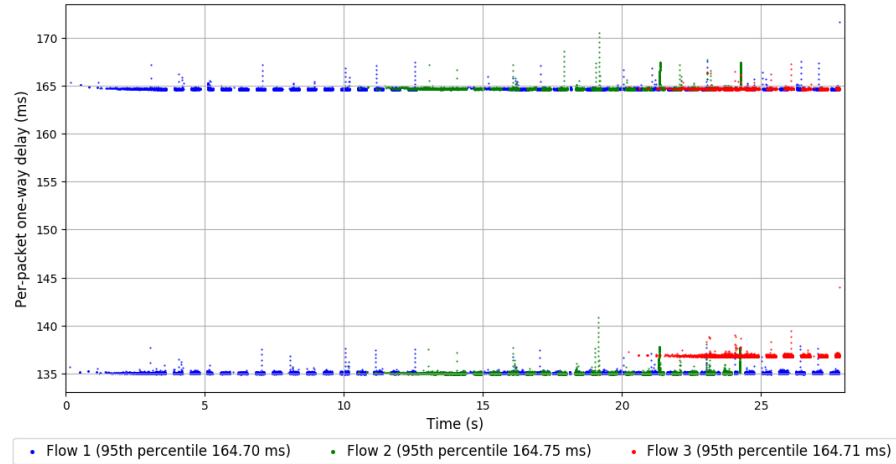
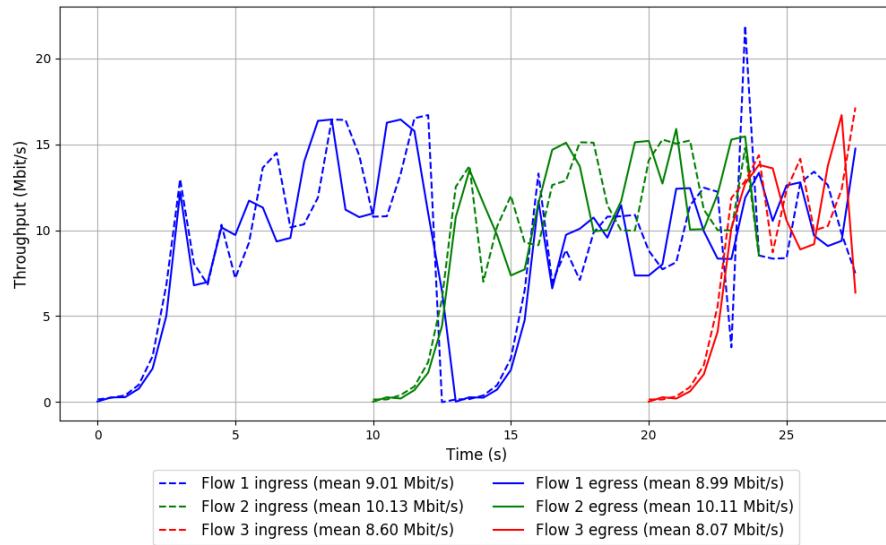
Run 6: Statistics of Copa

Start at: 2017-09-08 12:15:37

End at: 2017-09-08 12:16:07

```
# Below is generated by plot.py at 2017-09-08 16:11:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 16.35 Mbit/s
95th percentile per-packet one-way delay: 164.715 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 8.99 Mbit/s
95th percentile per-packet one-way delay: 164.701 ms
Loss rate: 0.09%
-- Flow 2:
Average throughput: 10.11 Mbit/s
95th percentile per-packet one-way delay: 164.755 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.07 Mbit/s
95th percentile per-packet one-way delay: 164.706 ms
Loss rate: 8.08%
```

Run 6: Report of Copa — Data Link



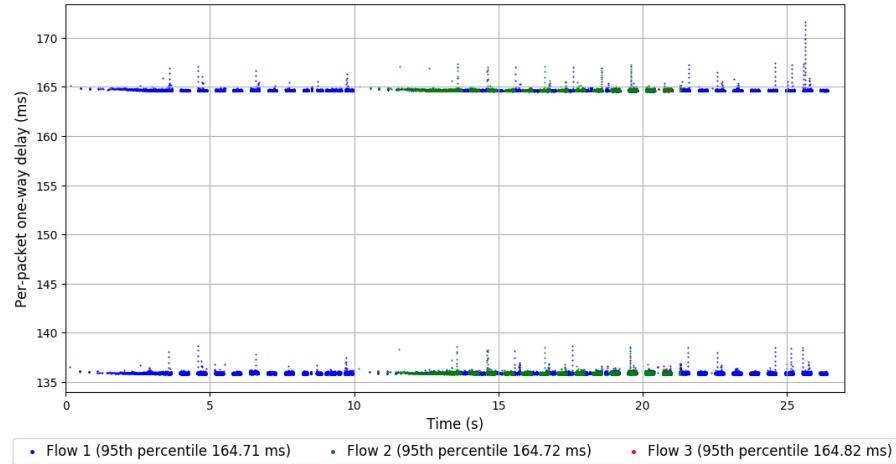
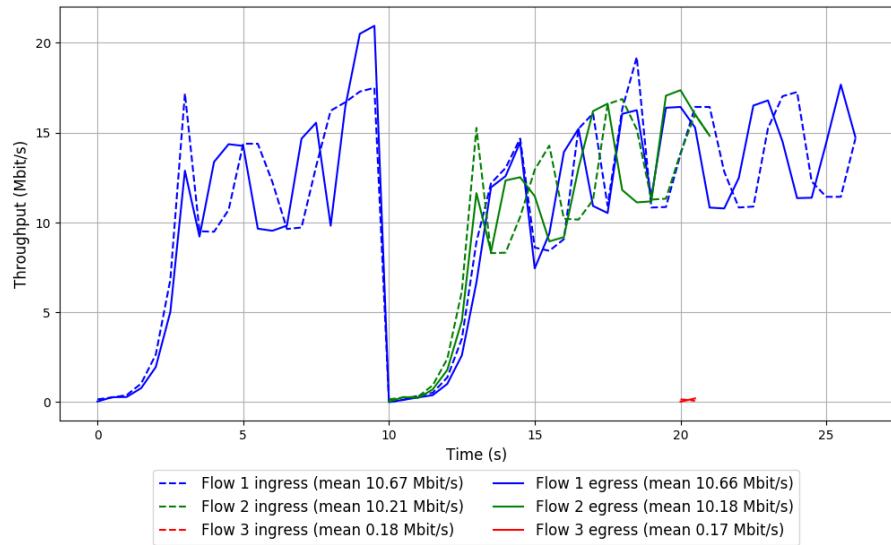
Run 7: Statistics of Copa

Start at: 2017-09-08 12:28:57

End at: 2017-09-08 12:29:27

```
# Below is generated by plot.py at 2017-09-08 16:11:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.99 Mbit/s
95th percentile per-packet one-way delay: 164.712 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 164.708 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 10.18 Mbit/s
95th percentile per-packet one-way delay: 164.725 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 164.824 ms
Loss rate: 0.00%
```

Run 7: Report of Copa — Data Link



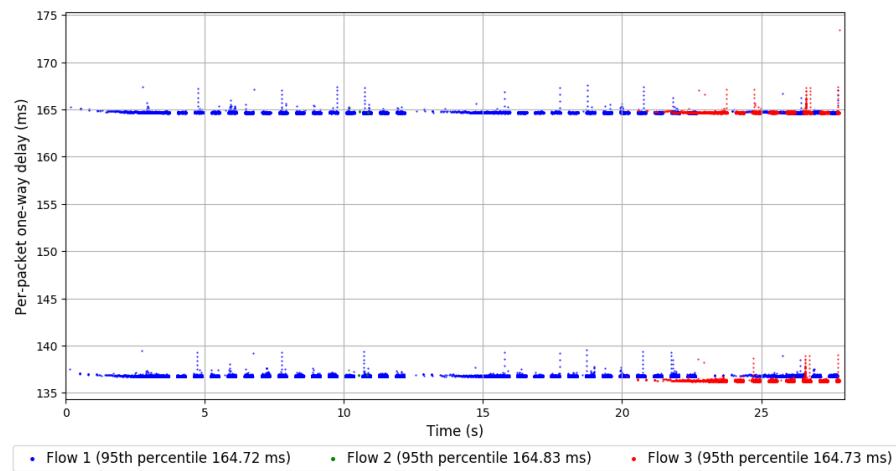
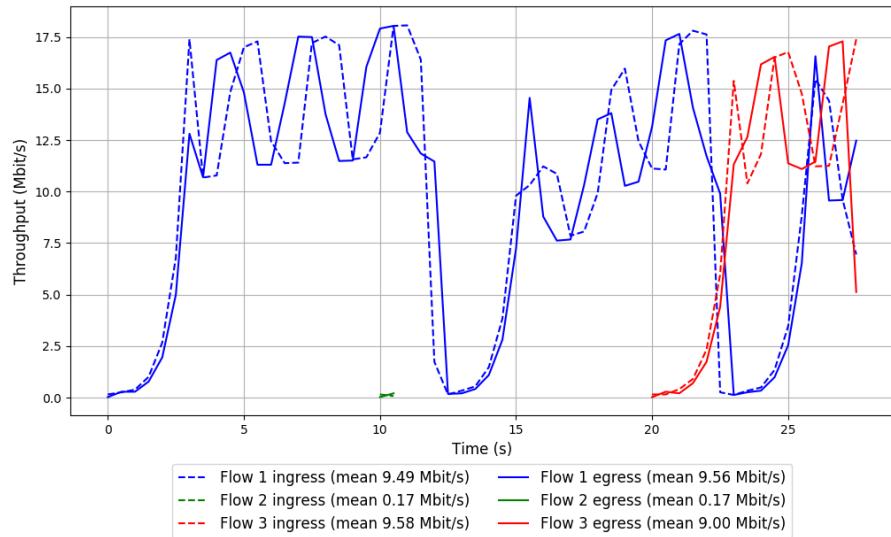
Run 8: Statistics of Copa

Start at: 2017-09-08 12:42:18

End at: 2017-09-08 12:42:48

```
# Below is generated by plot.py at 2017-09-08 16:11:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 164.722 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 9.56 Mbit/s
95th percentile per-packet one-way delay: 164.719 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 164.829 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 164.733 ms
Loss rate: 8.19%
```

Run 8: Report of Copa — Data Link



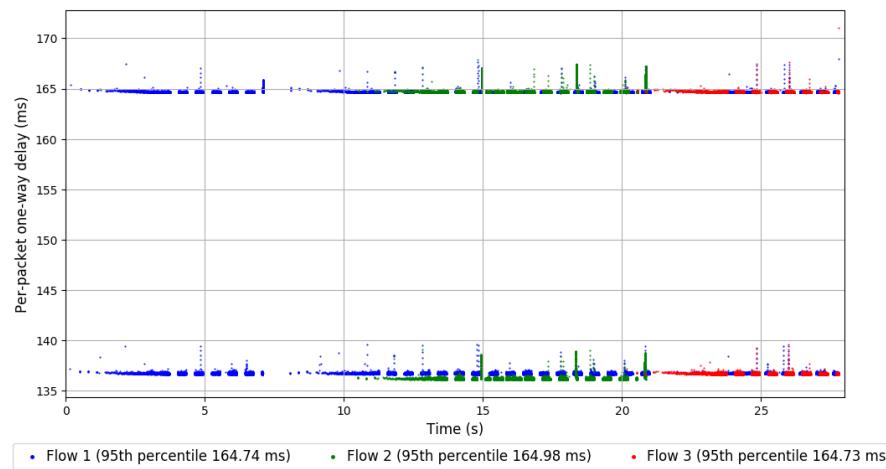
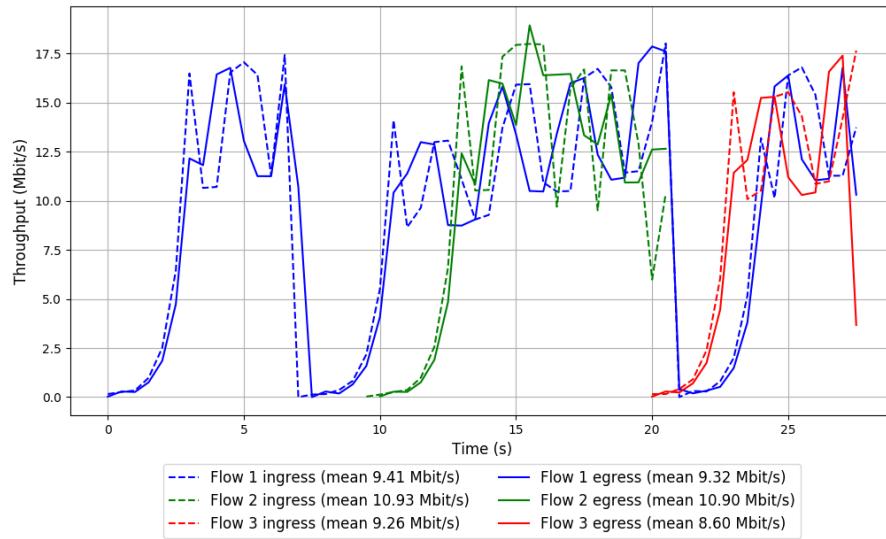
Run 9: Statistics of Copa

Start at: 2017-09-08 12:55:41

End at: 2017-09-08 12:56:11

```
# Below is generated by plot.py at 2017-09-08 16:11:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 15.92 Mbit/s
95th percentile per-packet one-way delay: 164.758 ms
Loss rate: 2.34%
-- Flow 1:
Average throughput: 9.32 Mbit/s
95th percentile per-packet one-way delay: 164.739 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 10.90 Mbit/s
95th percentile per-packet one-way delay: 164.979 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 8.60 Mbit/s
95th percentile per-packet one-way delay: 164.730 ms
Loss rate: 9.64%
```

Run 9: Report of Copa — Data Link



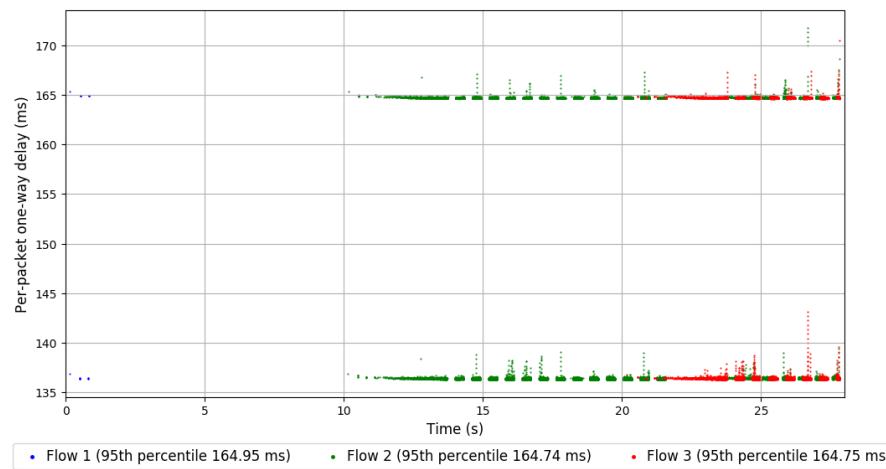
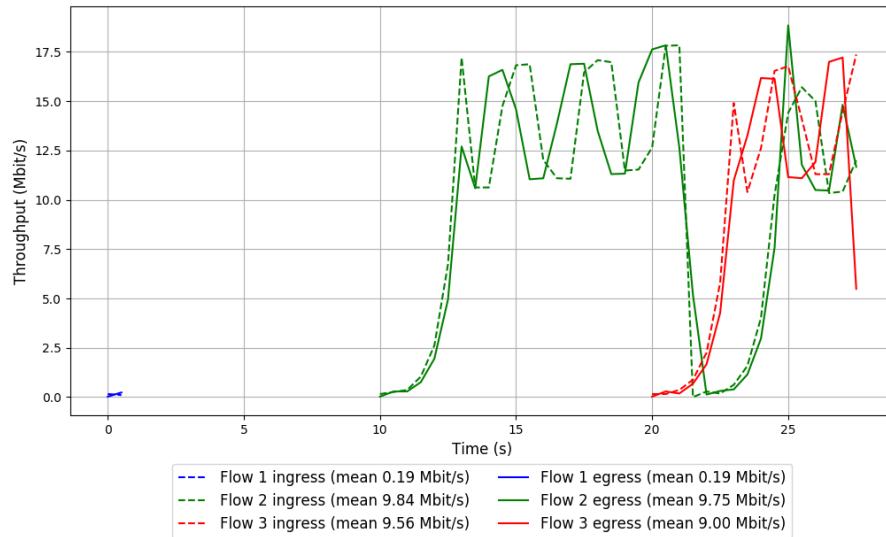
Run 10: Statistics of Copa

Start at: 2017-09-08 13:09:00

End at: 2017-09-08 13:09:30

```
# Below is generated by plot.py at 2017-09-08 16:11:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.71 Mbit/s
95th percentile per-packet one-way delay: 164.745 ms
Loss rate: 3.23%
-- Flow 1:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.951 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.75 Mbit/s
95th percentile per-packet one-way delay: 164.742 ms
Loss rate: 1.22%
-- Flow 3:
Average throughput: 9.00 Mbit/s
95th percentile per-packet one-way delay: 164.752 ms
Loss rate: 7.95%
```

Run 10: Report of Copa — Data Link

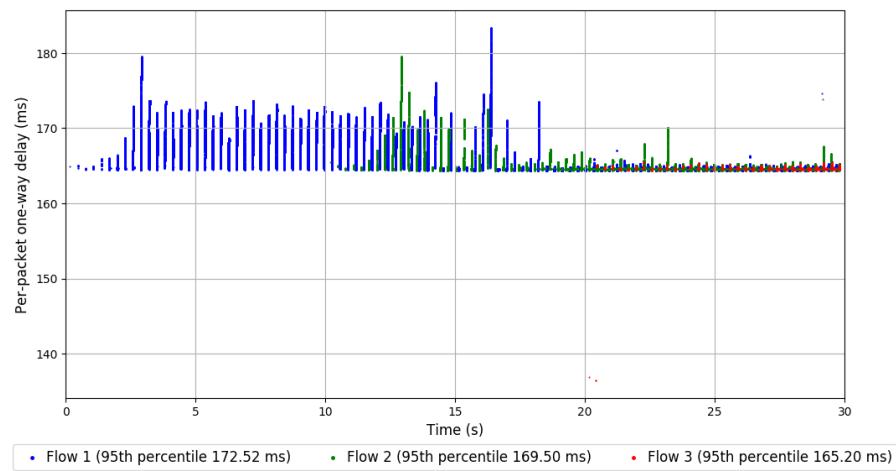
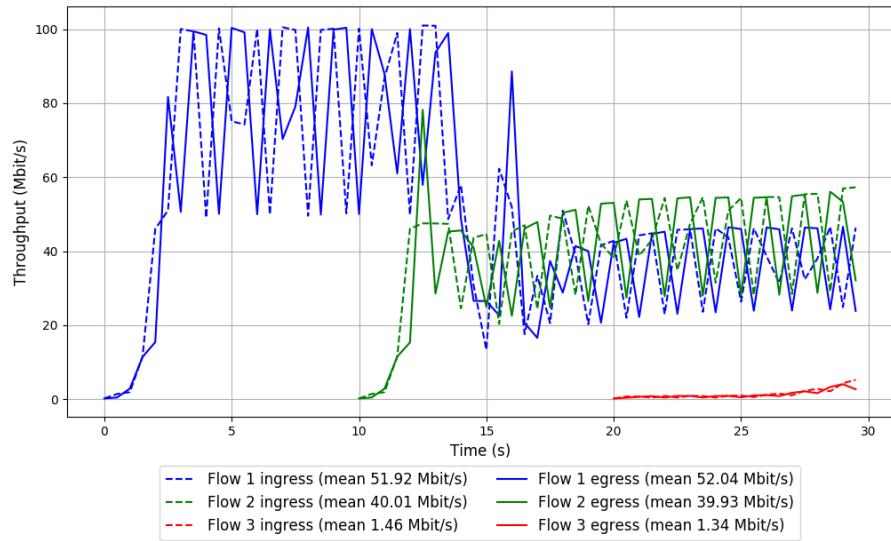


```
Run 1: Statistics of TCP Cubic

Start at: 2017-09-08 11:00:39
End at: 2017-09-08 11:01:09

# Below is generated by plot.py at 2017-09-08 16:11:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 78.92 Mbit/s
95th percentile per-packet one-way delay: 172.230 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 52.04 Mbit/s
95th percentile per-packet one-way delay: 172.516 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 39.93 Mbit/s
95th percentile per-packet one-way delay: 169.502 ms
Loss rate: 1.83%
-- Flow 3:
Average throughput: 1.34 Mbit/s
95th percentile per-packet one-way delay: 165.197 ms
Loss rate: 10.54%
```

Run 1: Report of TCP Cubic — Data Link



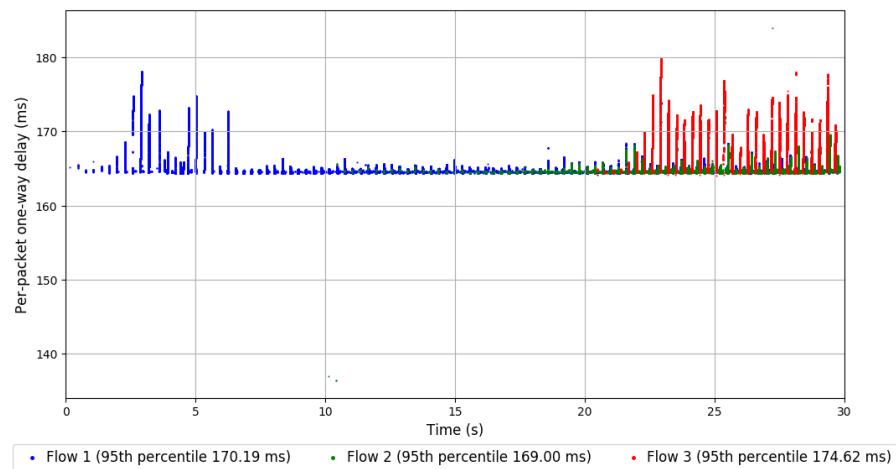
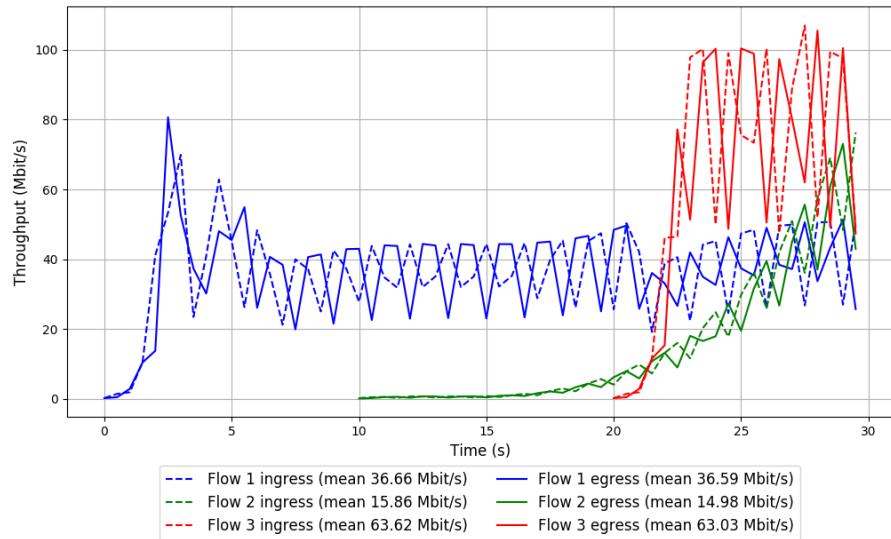
Run 2: Statistics of TCP Cubic

Start at: 2017-09-08 11:14:36

End at: 2017-09-08 11:15:06

```
# Below is generated by plot.py at 2017-09-08 16:11:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 66.70 Mbit/s
95th percentile per-packet one-way delay: 172.815 ms
Loss rate: 2.91%
-- Flow 1:
Average throughput: 36.59 Mbit/s
95th percentile per-packet one-way delay: 170.192 ms
Loss rate: 1.19%
-- Flow 2:
Average throughput: 14.98 Mbit/s
95th percentile per-packet one-way delay: 168.995 ms
Loss rate: 6.84%
-- Flow 3:
Average throughput: 63.03 Mbit/s
95th percentile per-packet one-way delay: 174.624 ms
Loss rate: 3.94%
```

Run 2: Report of TCP Cubic — Data Link



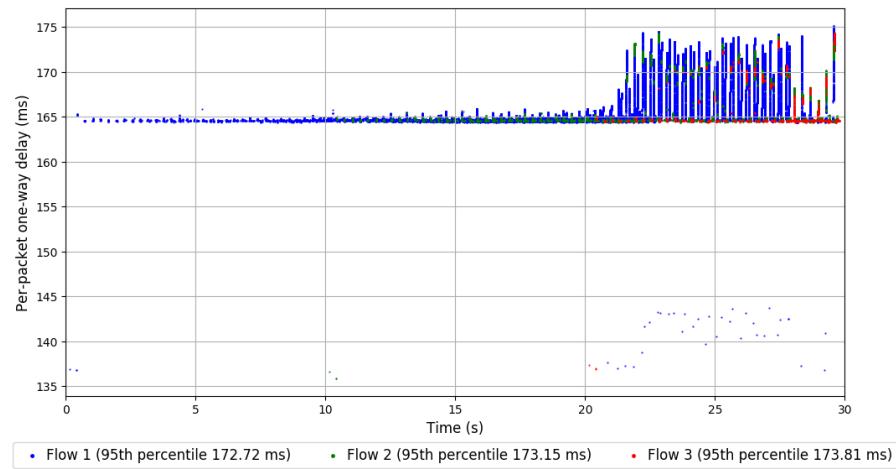
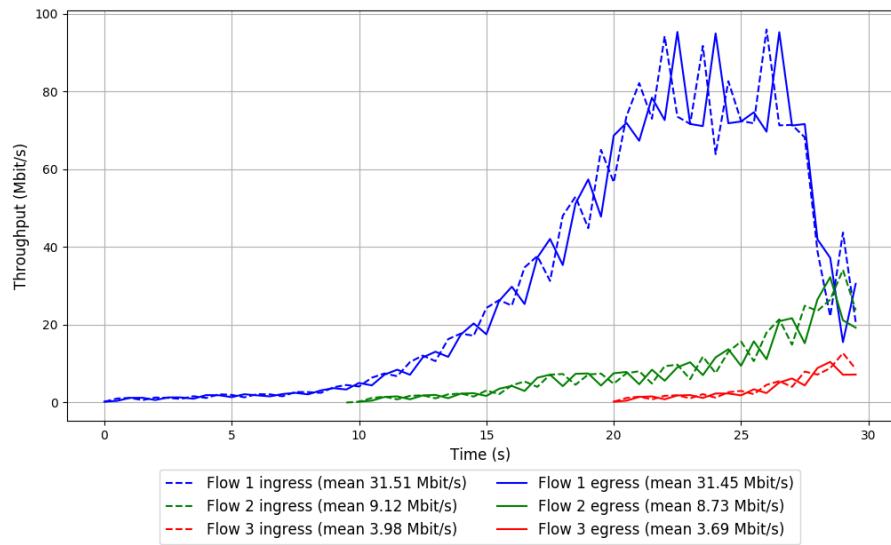
```
Run 3: Statistics of TCP Cubic
```

```
Start at: 2017-09-08 11:28:36
```

```
End at: 2017-09-08 11:29:06
```

```
# Below is generated by plot.py at 2017-09-08 16:11:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 38.27 Mbit/s
95th percentile per-packet one-way delay: 172.857 ms
Loss rate: 2.11%
-- Flow 1:
Average throughput: 31.45 Mbit/s
95th percentile per-packet one-way delay: 172.721 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 8.73 Mbit/s
95th percentile per-packet one-way delay: 173.147 ms
Loss rate: 5.63%
-- Flow 3:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 173.813 ms
Loss rate: 9.83%
```

Run 3: Report of TCP Cubic — Data Link



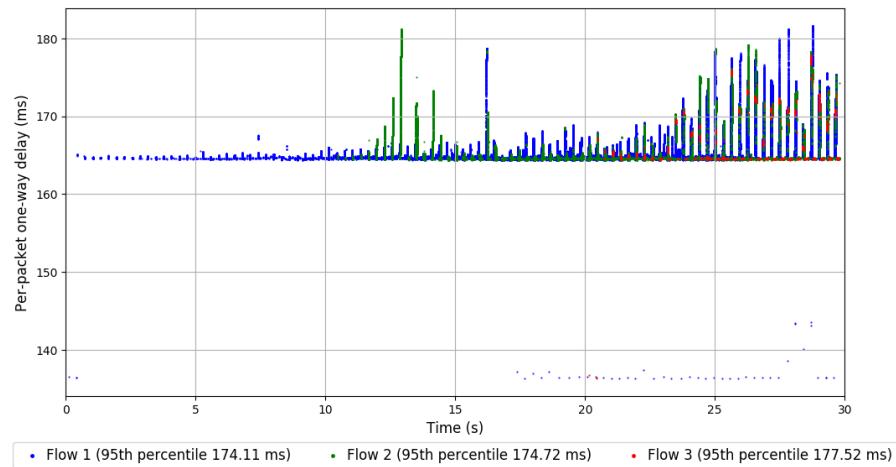
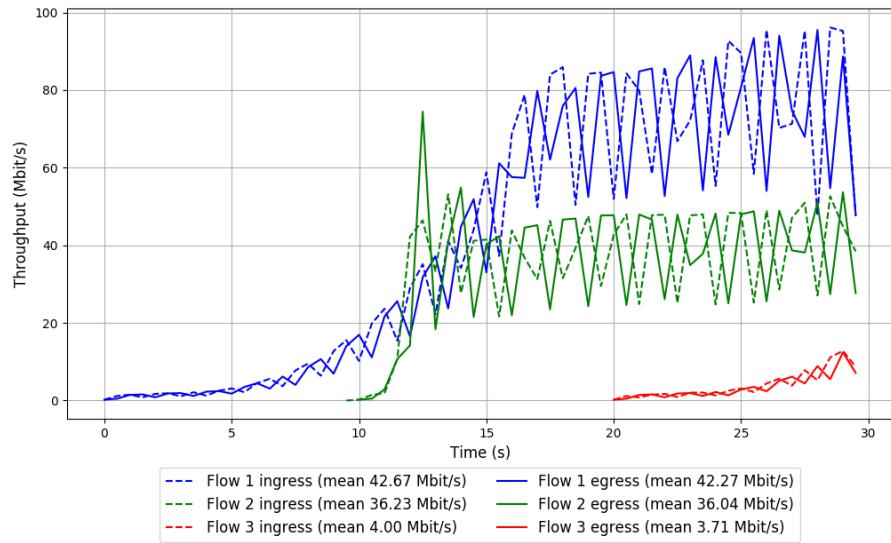
Run 4: Statistics of TCP Cubic

Start at: 2017-09-08 11:42:31

End at: 2017-09-08 11:43:01

```
# Below is generated by plot.py at 2017-09-08 16:11:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.14 Mbit/s
95th percentile per-packet one-way delay: 174.412 ms
Loss rate: 2.05%
-- Flow 1:
Average throughput: 42.27 Mbit/s
95th percentile per-packet one-way delay: 174.108 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 36.04 Mbit/s
95th percentile per-packet one-way delay: 174.722 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 3.71 Mbit/s
95th percentile per-packet one-way delay: 177.519 ms
Loss rate: 9.82%
```

Run 4: Report of TCP Cubic — Data Link



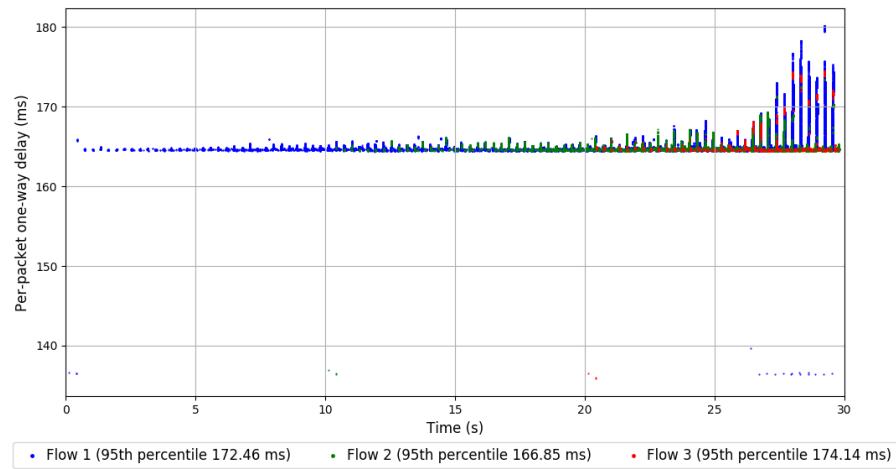
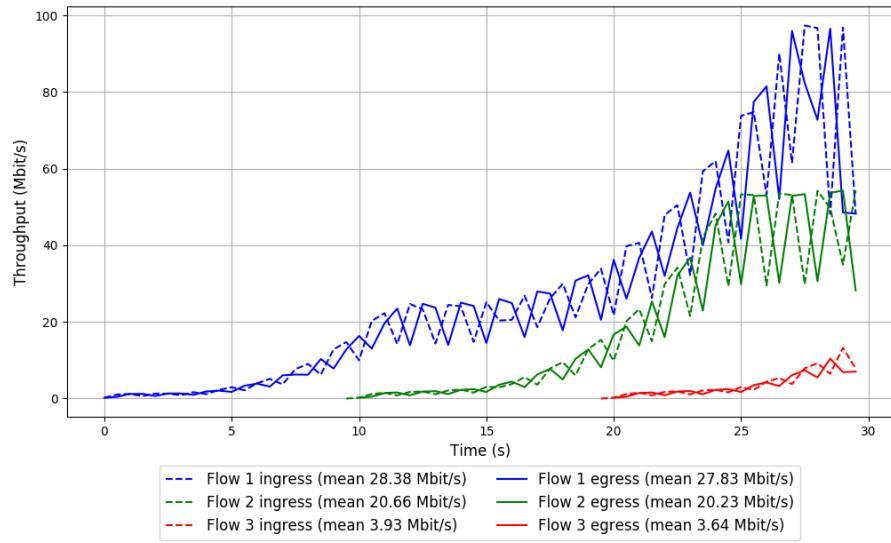
Run 5: Statistics of TCP Cubic

Start at: 2017-09-08 11:56:11

End at: 2017-09-08 11:56:41

```
# Below is generated by plot.py at 2017-09-08 16:11:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 42.22 Mbit/s
95th percentile per-packet one-way delay: 171.741 ms
Loss rate: 3.26%
-- Flow 1:
Average throughput: 27.83 Mbit/s
95th percentile per-packet one-way delay: 172.463 ms
Loss rate: 2.86%
-- Flow 2:
Average throughput: 20.23 Mbit/s
95th percentile per-packet one-way delay: 166.850 ms
Loss rate: 3.45%
-- Flow 3:
Average throughput: 3.64 Mbit/s
95th percentile per-packet one-way delay: 174.141 ms
Loss rate: 9.86%
```

Run 5: Report of TCP Cubic — Data Link

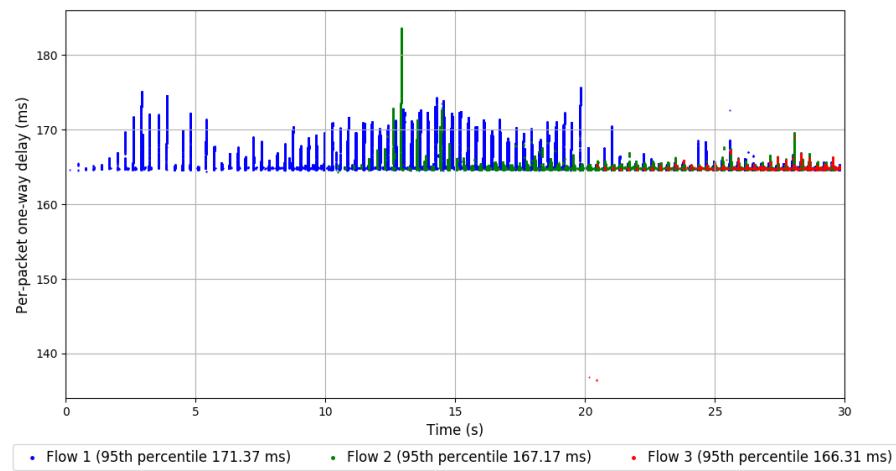
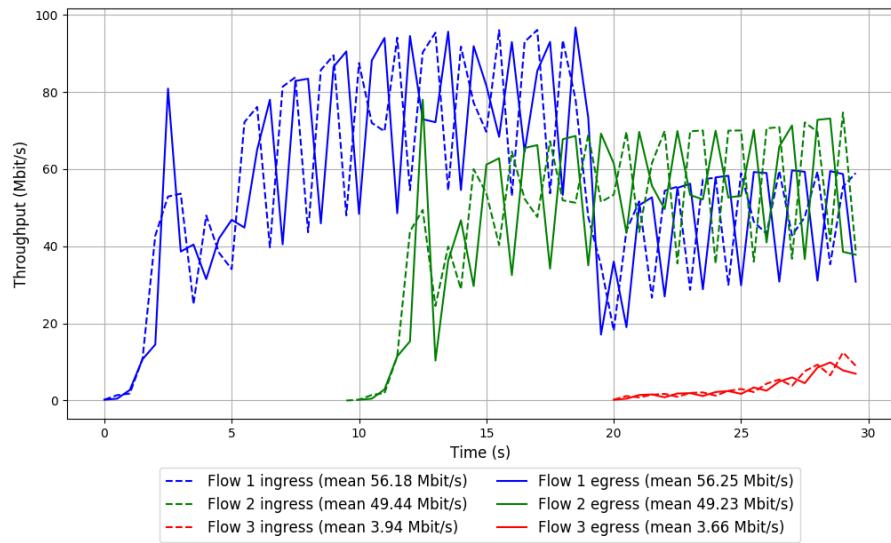


```
Run 6: Statistics of TCP Cubic

Start at: 2017-09-08 12:09:23
End at: 2017-09-08 12:09:53

# Below is generated by plot.py at 2017-09-08 16:12:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 90.05 Mbit/s
95th percentile per-packet one-way delay: 170.987 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 56.25 Mbit/s
95th percentile per-packet one-way delay: 171.370 ms
Loss rate: 0.89%
-- Flow 2:
Average throughput: 49.23 Mbit/s
95th percentile per-packet one-way delay: 167.174 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 166.307 ms
Loss rate: 9.77%
```

Run 6: Report of TCP Cubic — Data Link



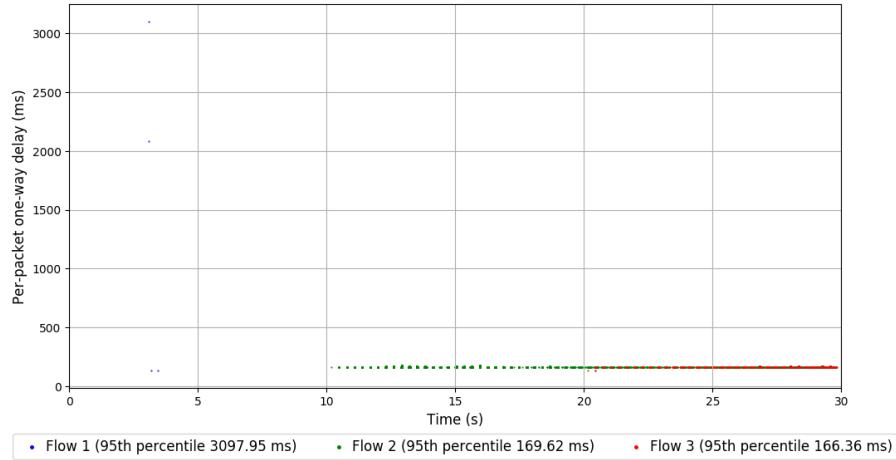
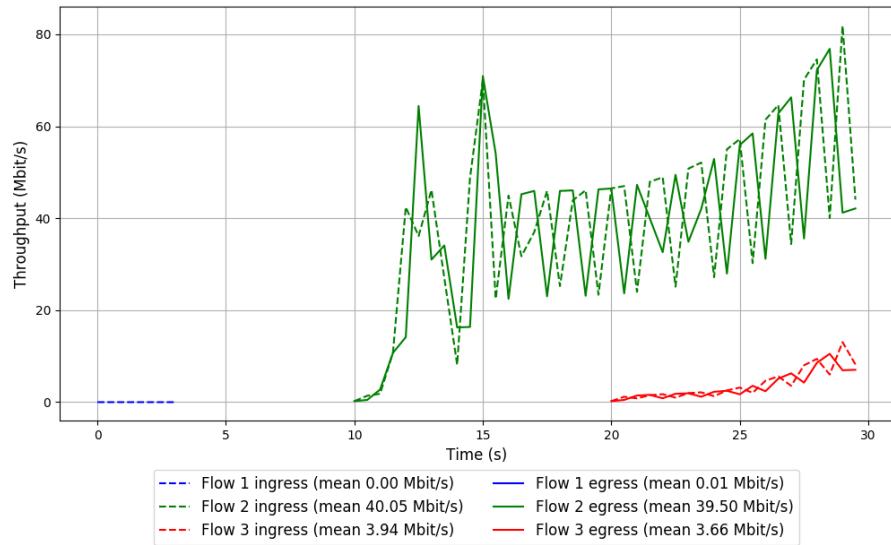
Run 7: Statistics of TCP Cubic

Start at: 2017-09-08 12:22:41

End at: 2017-09-08 12:23:11

```
# Below is generated by plot.py at 2017-09-08 16:12:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 30.36 Mbit/s
95th percentile per-packet one-way delay: 169.518 ms
Loss rate: 3.04%
-- Flow 1:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 3097.949 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 39.50 Mbit/s
95th percentile per-packet one-way delay: 169.622 ms
Loss rate: 2.71%
-- Flow 3:
Average throughput: 3.66 Mbit/s
95th percentile per-packet one-way delay: 166.358 ms
Loss rate: 9.71%
```

Run 7: Report of TCP Cubic — Data Link

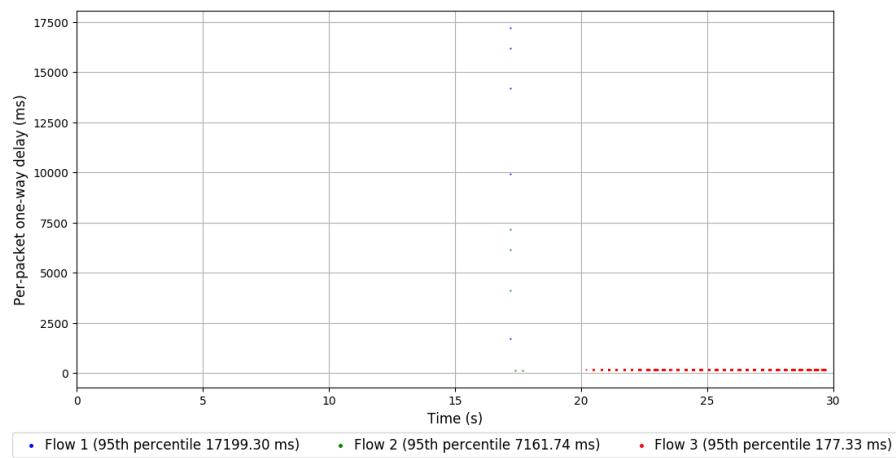
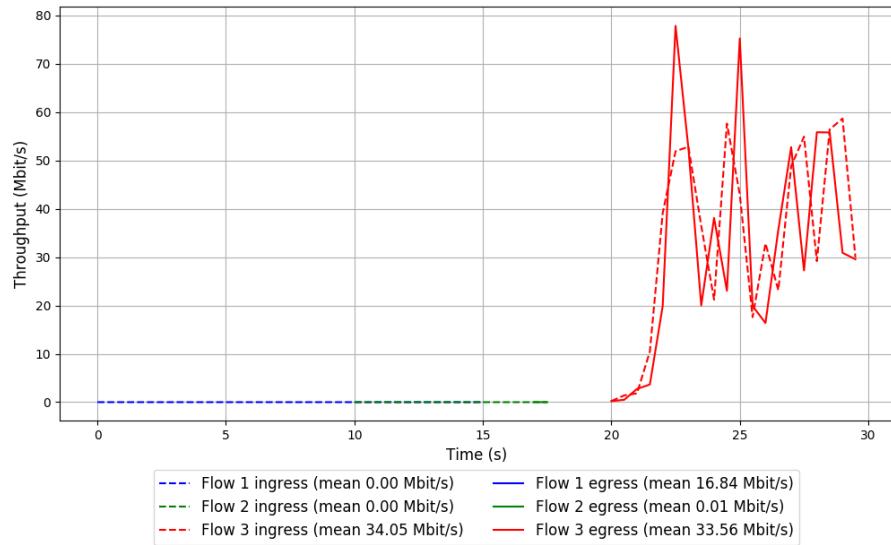


Run 8: Statistics of TCP Cubic

Start at: 2017-09-08 12:36:06

End at: 2017-09-08 12:36:36

Run 8: Report of TCP Cubic — Data Link



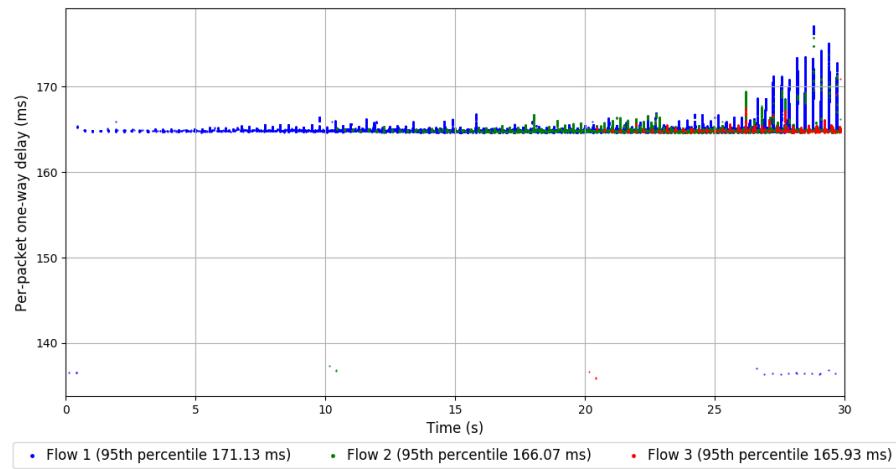
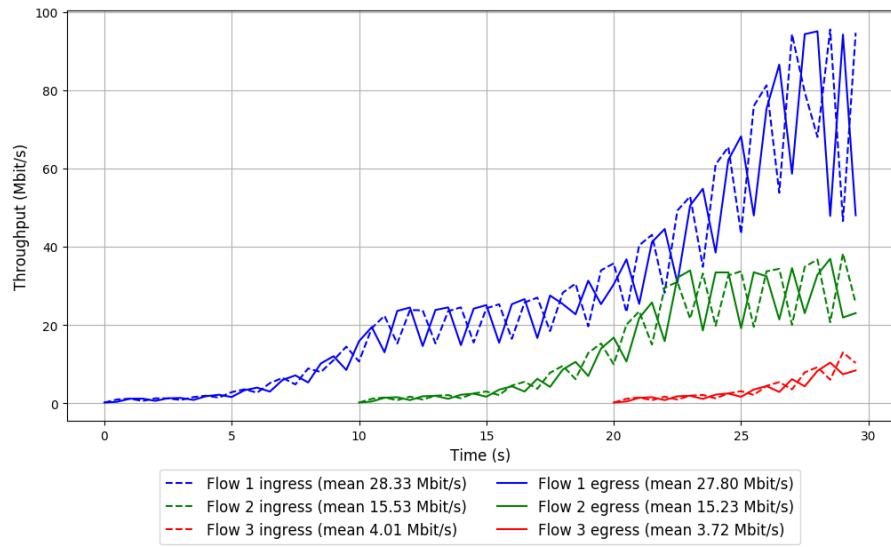
Run 9: Statistics of TCP Cubic

Start at: 2017-09-08 12:49:23

End at: 2017-09-08 12:49:53

```
# Below is generated by plot.py at 2017-09-08 16:12:18
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.00 Mbit/s
95th percentile per-packet one-way delay: 170.406 ms
Loss rate: 3.12%
-- Flow 1:
Average throughput: 27.80 Mbit/s
95th percentile per-packet one-way delay: 171.126 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 15.23 Mbit/s
95th percentile per-packet one-way delay: 166.074 ms
Loss rate: 3.27%
-- Flow 3:
Average throughput: 3.72 Mbit/s
95th percentile per-packet one-way delay: 165.925 ms
Loss rate: 9.72%
```

Run 9: Report of TCP Cubic — Data Link



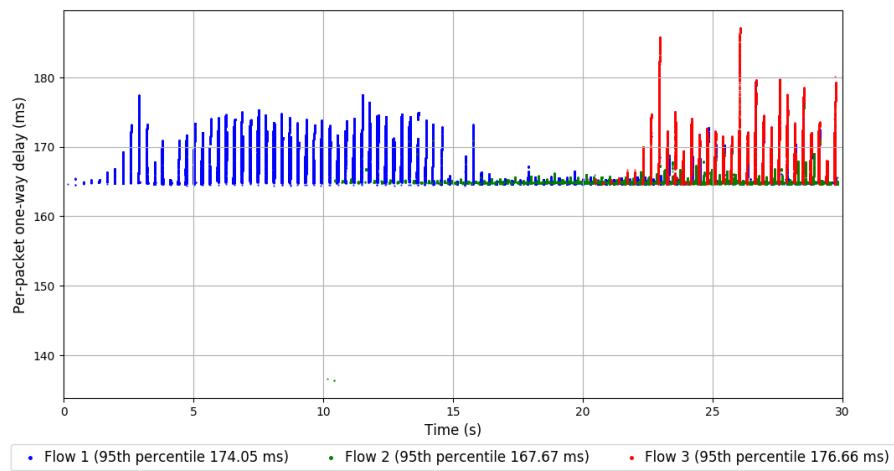
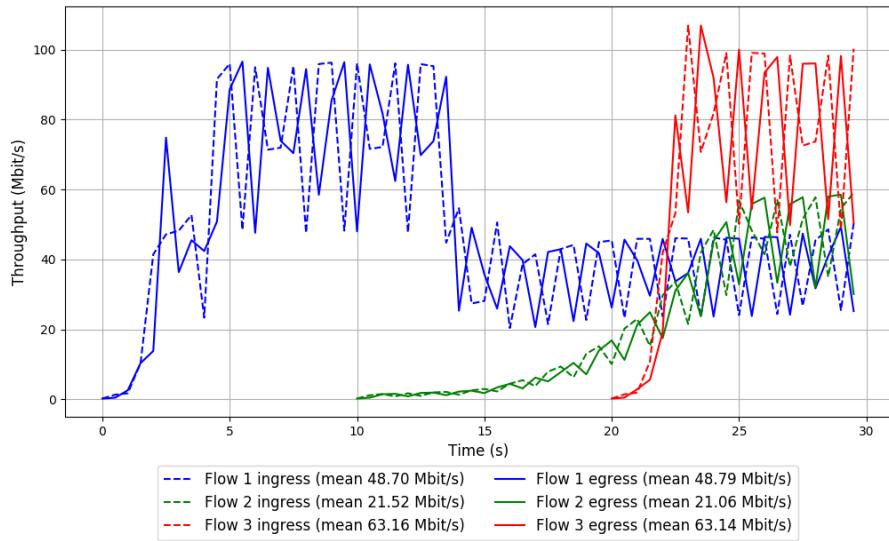
Run 10: Statistics of TCP Cubic

Start at: 2017-09-08 13:02:44

End at: 2017-09-08 13:03:14

```
# Below is generated by plot.py at 2017-09-08 16:12:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.08 Mbit/s
95th percentile per-packet one-way delay: 174.131 ms
Loss rate: 2.10%
-- Flow 1:
Average throughput: 48.79 Mbit/s
95th percentile per-packet one-way delay: 174.047 ms
Loss rate: 0.87%
-- Flow 2:
Average throughput: 21.06 Mbit/s
95th percentile per-packet one-way delay: 167.670 ms
Loss rate: 3.52%
-- Flow 3:
Average throughput: 63.14 Mbit/s
95th percentile per-packet one-way delay: 176.655 ms
Loss rate: 3.97%
```

Run 10: Report of TCP Cubic — Data Link



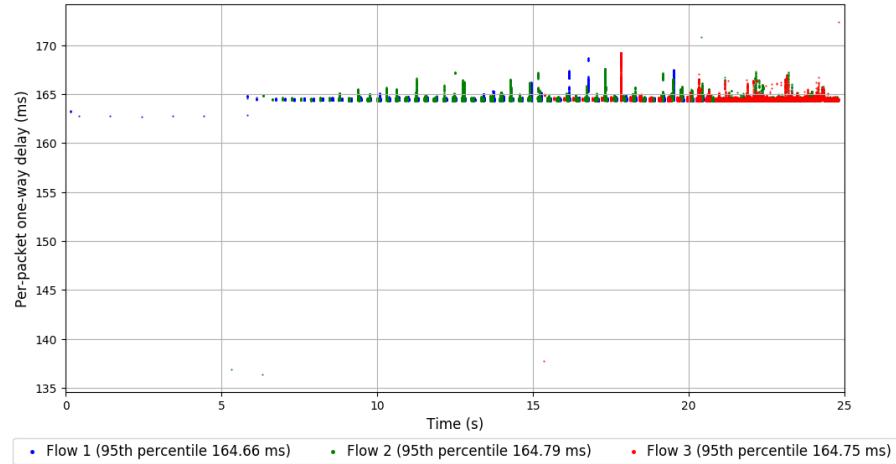
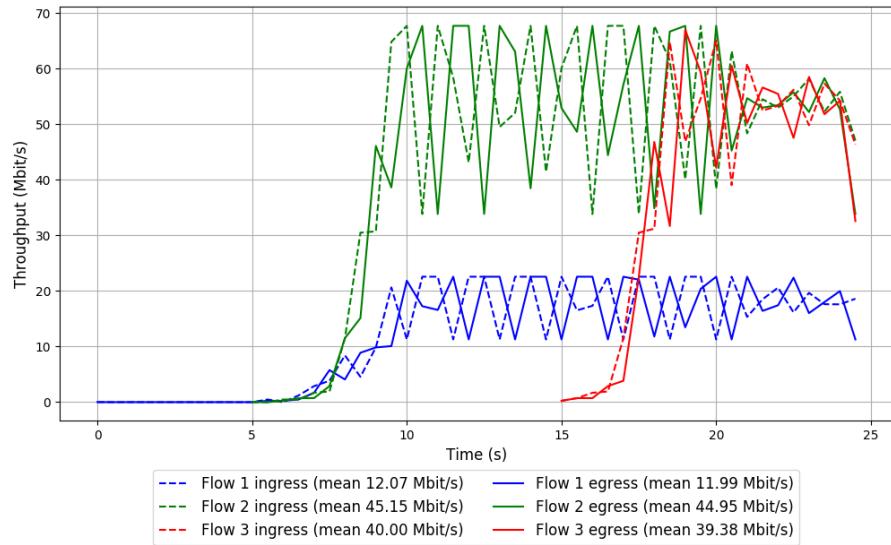
Run 1: Statistics of Indigo

Start at: 2017-09-08 11:03:36

End at: 2017-09-08 11:04:06

```
# Below is generated by plot.py at 2017-09-08 16:12:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 62.64 Mbit/s
95th percentile per-packet one-way delay: 164.758 ms
Loss rate: 2.45%
-- Flow 1:
Average throughput: 11.99 Mbit/s
95th percentile per-packet one-way delay: 164.658 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 44.95 Mbit/s
95th percentile per-packet one-way delay: 164.787 ms
Loss rate: 1.84%
-- Flow 3:
Average throughput: 39.38 Mbit/s
95th percentile per-packet one-way delay: 164.746 ms
Loss rate: 4.29%
```

Run 1: Report of Indigo — Data Link

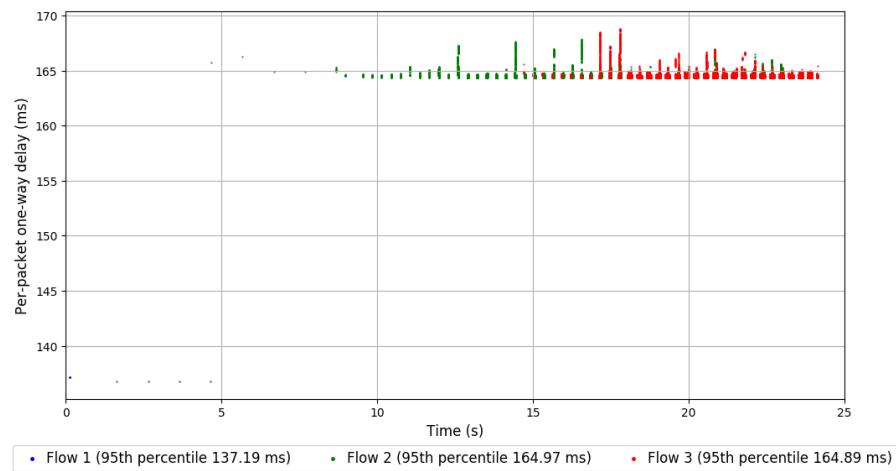
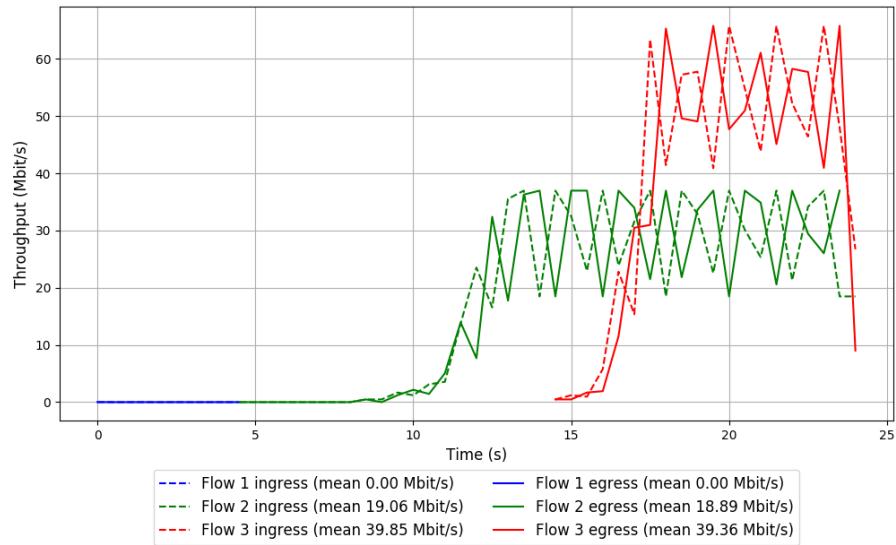


Run 2: Statistics of Indigo

Start at: 2017-09-08 11:17:33

End at: 2017-09-08 11:18:03

Run 2: Report of Indigo — Data Link

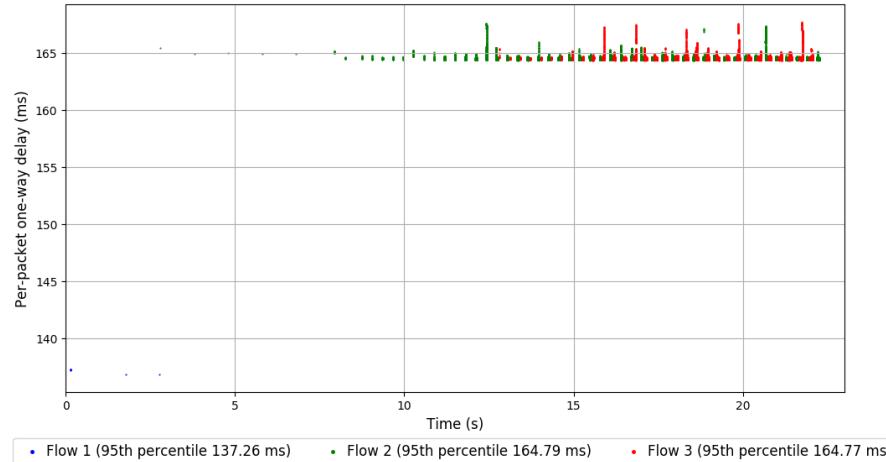
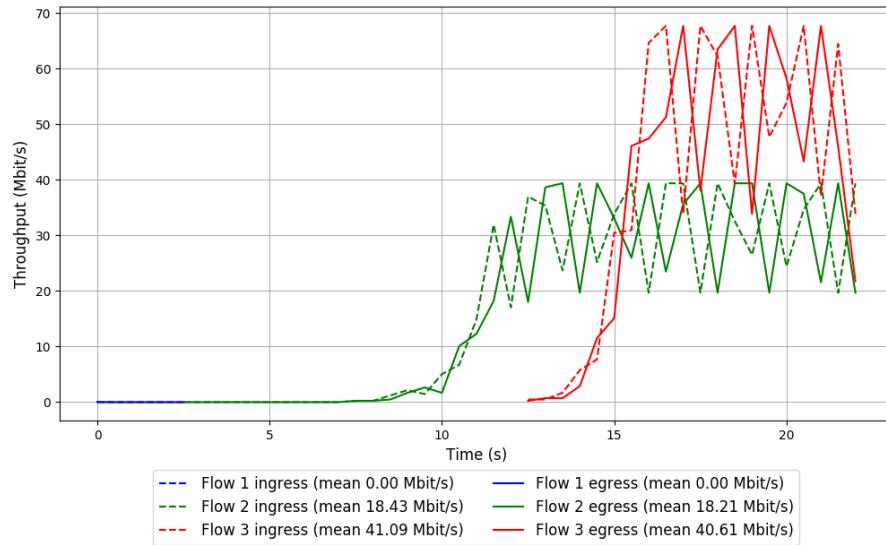


Run 3: Statistics of Indigo

Start at: 2017-09-08 11:31:31

End at: 2017-09-08 11:32:01

Run 3: Report of Indigo — Data Link



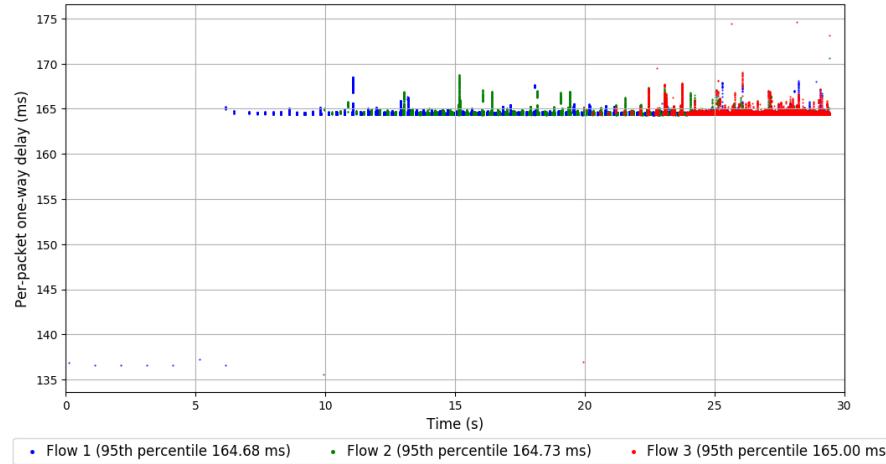
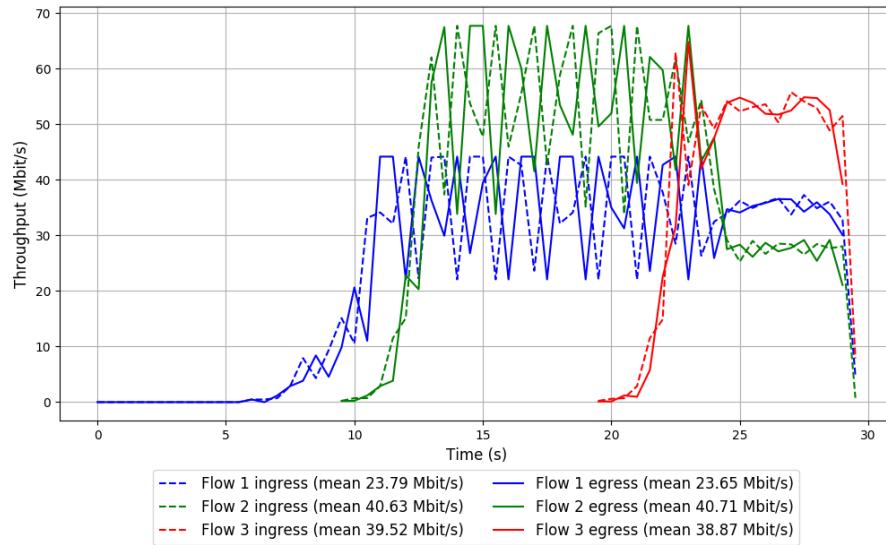
Run 4: Statistics of Indigo

Start at: 2017-09-08 11:45:30

End at: 2017-09-08 11:46:00

```
# Below is generated by plot.py at 2017-09-08 16:12:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 63.32 Mbit/s
95th percentile per-packet one-way delay: 164.761 ms
Loss rate: 1.88%
-- Flow 1:
Average throughput: 23.65 Mbit/s
95th percentile per-packet one-way delay: 164.677 ms
Loss rate: 1.48%
-- Flow 2:
Average throughput: 40.71 Mbit/s
95th percentile per-packet one-way delay: 164.727 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 38.87 Mbit/s
95th percentile per-packet one-way delay: 165.000 ms
Loss rate: 4.34%
```

Run 4: Report of Indigo — Data Link



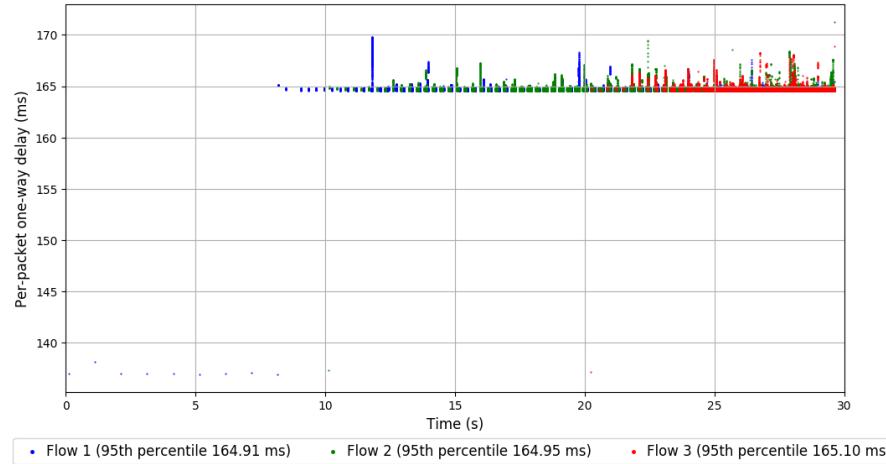
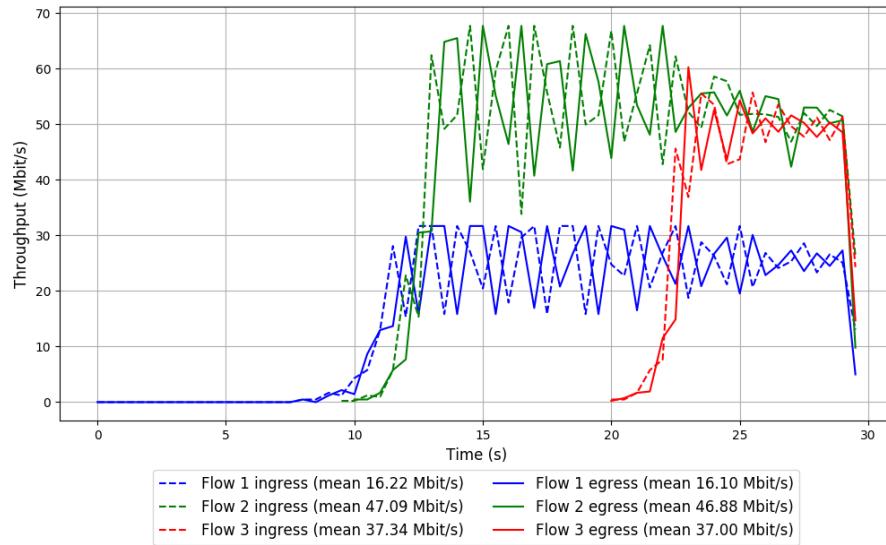
Run 5: Statistics of Indigo

Start at: 2017-09-08 11:59:01

End at: 2017-09-08 11:59:31

```
# Below is generated by plot.py at 2017-09-08 16:12:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 58.86 Mbit/s
95th percentile per-packet one-way delay: 164.965 ms
Loss rate: 2.15%
-- Flow 1:
Average throughput: 16.10 Mbit/s
95th percentile per-packet one-way delay: 164.906 ms
Loss rate: 1.64%
-- Flow 2:
Average throughput: 46.88 Mbit/s
95th percentile per-packet one-way delay: 164.954 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 37.00 Mbit/s
95th percentile per-packet one-way delay: 165.102 ms
Loss rate: 3.73%
```

Run 5: Report of Indigo — Data Link

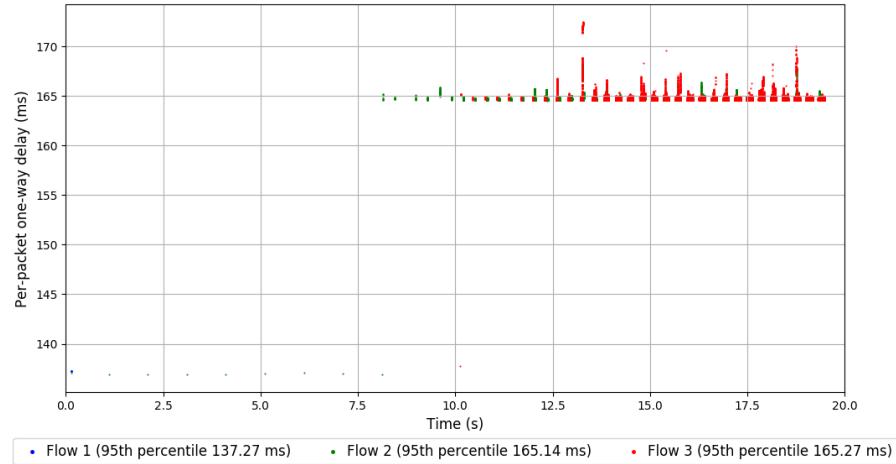
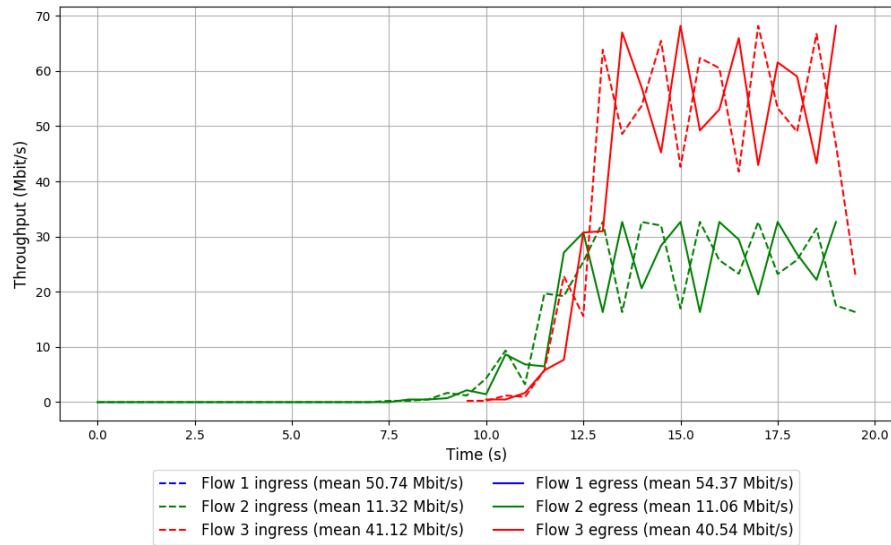


Run 6: Statistics of Indigo

Start at: 2017-09-08 12:12:15

End at: 2017-09-08 12:12:45

Run 6: Report of Indigo — Data Link



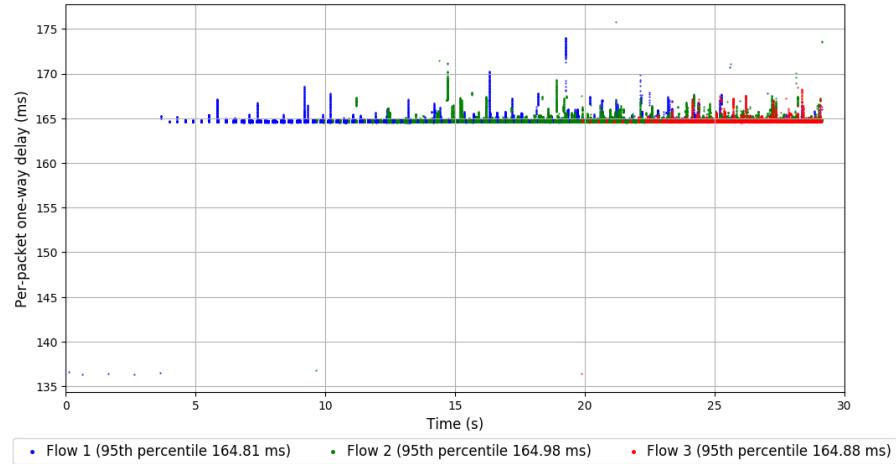
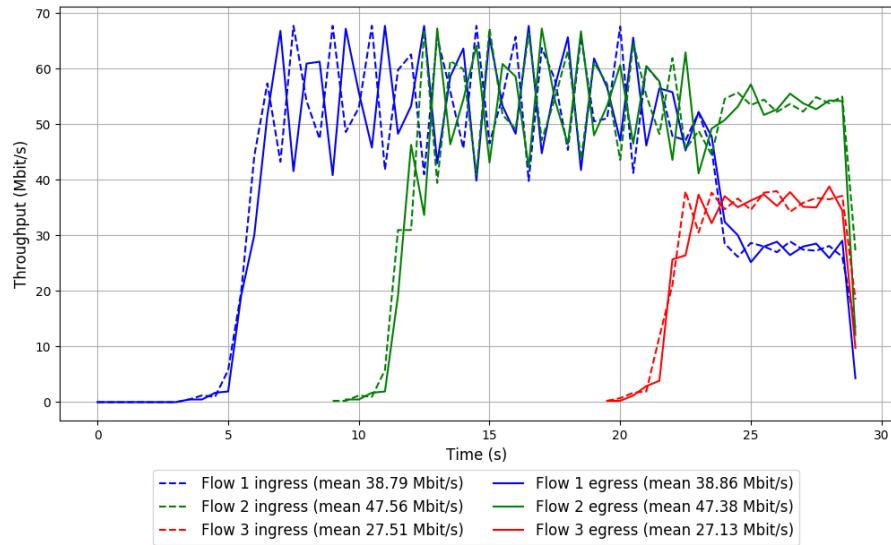
Run 7: Statistics of Indigo

Start at: 2017-09-08 12:25:30

End at: 2017-09-08 12:26:00

```
# Below is generated by plot.py at 2017-09-08 16:13:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.36 Mbit/s
95th percentile per-packet one-way delay: 164.889 ms
Loss rate: 1.54%
-- Flow 1:
Average throughput: 38.86 Mbit/s
95th percentile per-packet one-way delay: 164.815 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 47.38 Mbit/s
95th percentile per-packet one-way delay: 164.976 ms
Loss rate: 1.75%
-- Flow 3:
Average throughput: 27.13 Mbit/s
95th percentile per-packet one-way delay: 164.881 ms
Loss rate: 4.20%
```

Run 7: Report of Indigo — Data Link

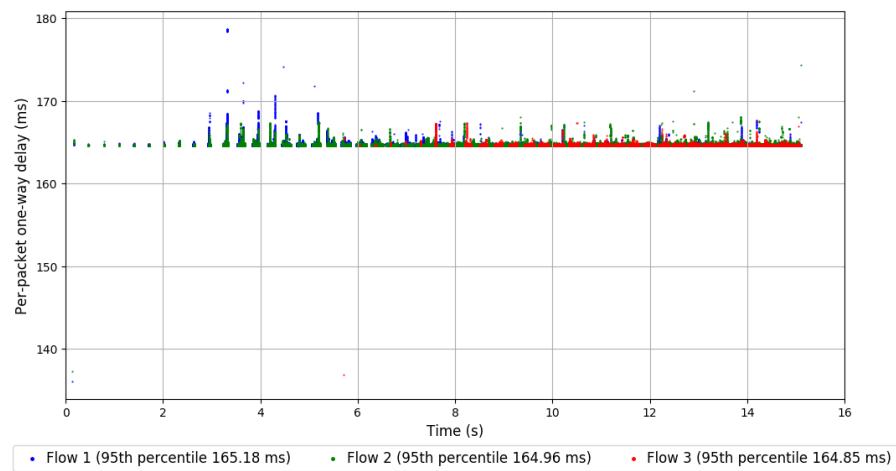
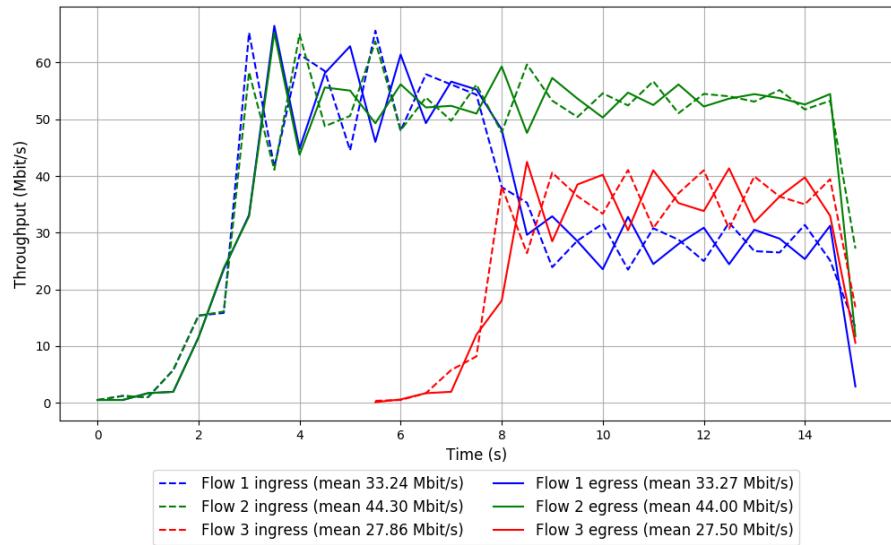


Run 8: Statistics of Indigo

Start at: 2017-09-08 12:38:53

End at: 2017-09-08 12:39:23

Run 8: Report of Indigo — Data Link



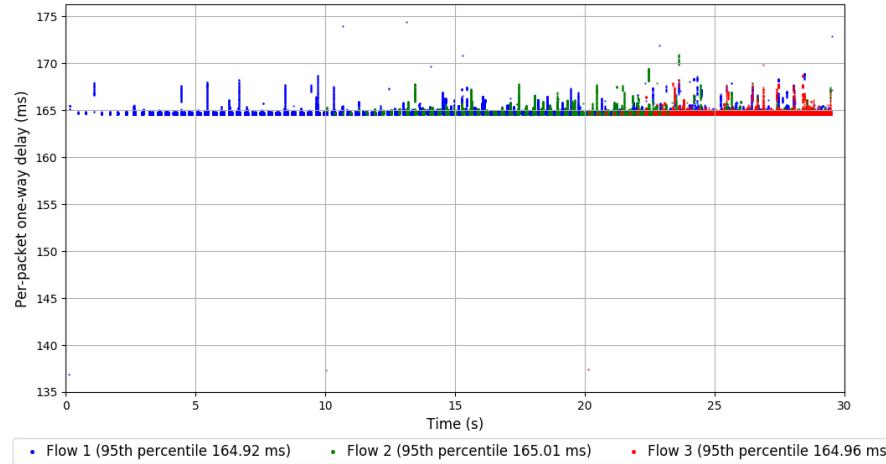
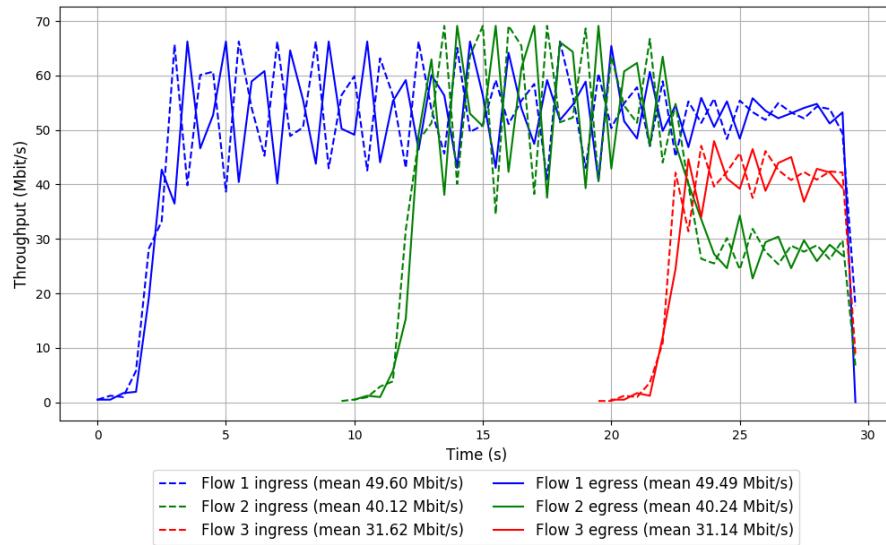
Run 9: Statistics of Indigo

Start at: 2017-09-08 12:52:12

End at: 2017-09-08 12:52:42

```
# Below is generated by plot.py at 2017-09-08 16:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 86.11 Mbit/s
95th percentile per-packet one-way delay: 164.956 ms
Loss rate: 1.48%
-- Flow 1:
Average throughput: 49.49 Mbit/s
95th percentile per-packet one-way delay: 164.921 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 40.24 Mbit/s
95th percentile per-packet one-way delay: 165.012 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 31.14 Mbit/s
95th percentile per-packet one-way delay: 164.957 ms
Loss rate: 4.33%
```

Run 9: Report of Indigo — Data Link

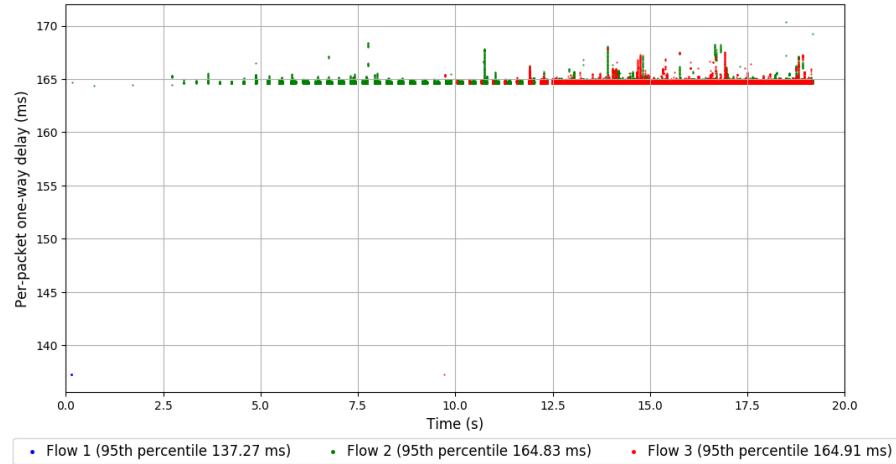
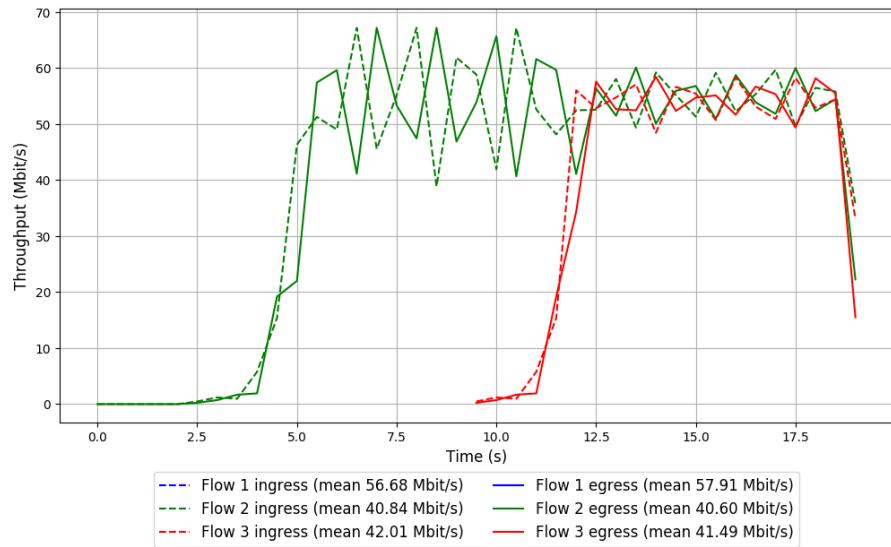


Run 10: Statistics of Indigo

Start at: 2017-09-08 13:05:36

End at: 2017-09-08 13:06:06

Run 10: Report of Indigo — Data Link

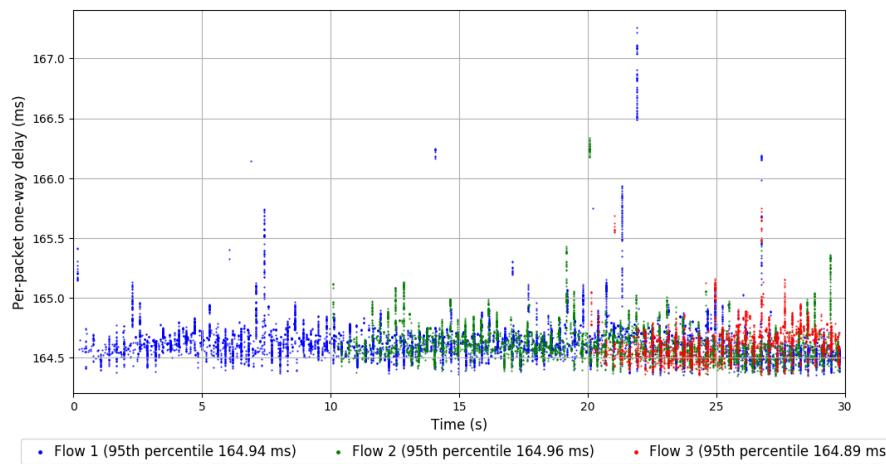
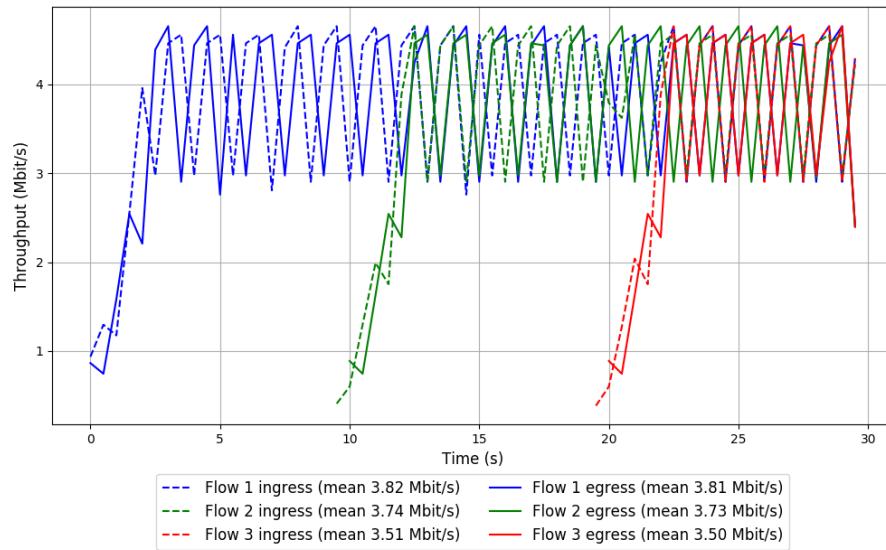


```
Run 1: Statistics of KohoCC

Start at: 2017-09-08 10:59:47
End at: 2017-09-08 11:00:17

# Below is generated by plot.py at 2017-09-08 16:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.43 Mbit/s
95th percentile per-packet one-way delay: 164.946 ms
Loss rate: 1.61%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 164.943 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 164.959 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.50 Mbit/s
95th percentile per-packet one-way delay: 164.893 ms
Loss rate: 3.44%
```

Run 1: Report of KohoCC — Data Link



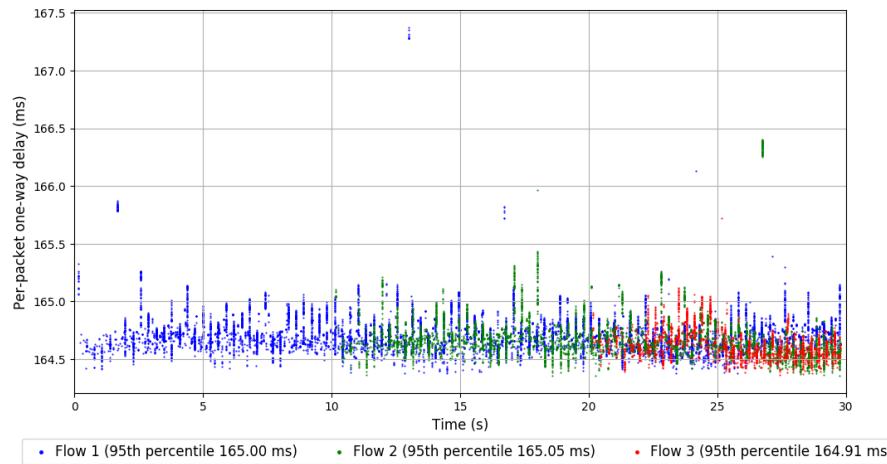
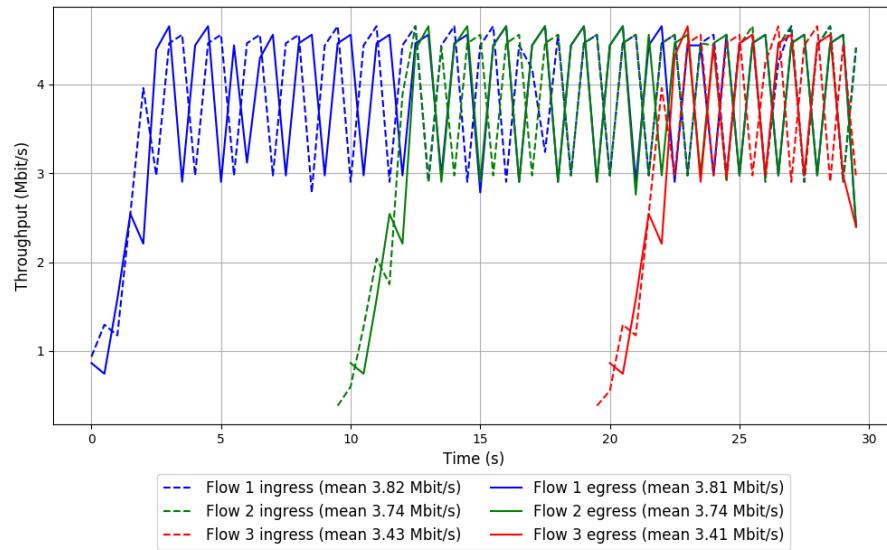
Run 2: Statistics of KohoCC

Start at: 2017-09-08 11:13:44

End at: 2017-09-08 11:14:14

```
# Below is generated by plot.py at 2017-09-08 16:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 164.996 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 164.998 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 165.049 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 164.912 ms
Loss rate: 3.63%
```

Run 2: Report of KohoCC — Data Link



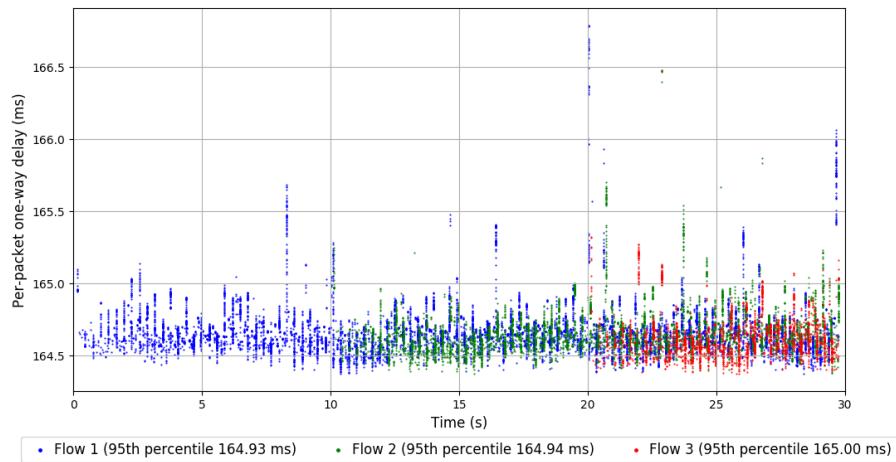
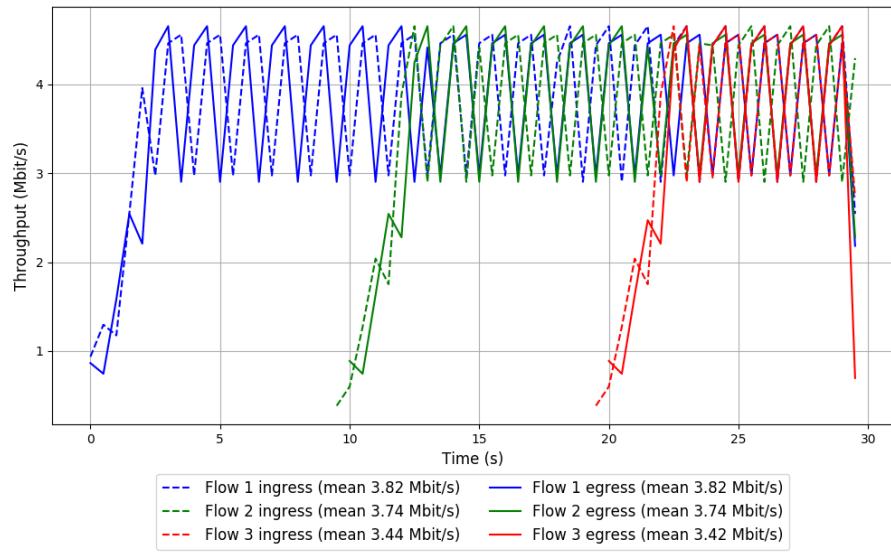
Run 3: Statistics of KohoCC

Start at: 2017-09-08 11:27:45

End at: 2017-09-08 11:28:15

```
# Below is generated by plot.py at 2017-09-08 16:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.41 Mbit/s
95th percentile per-packet one-way delay: 164.943 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 164.934 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 164.938 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 164.999 ms
Loss rate: 3.52%
```

Run 3: Report of KohoCC — Data Link



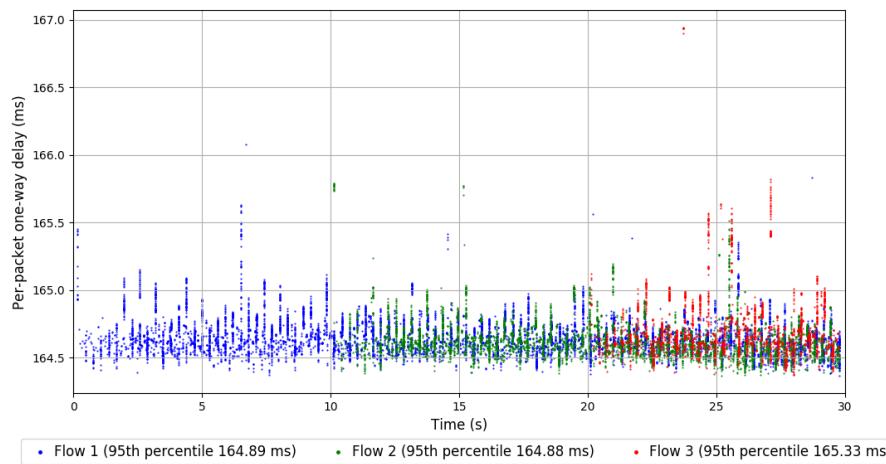
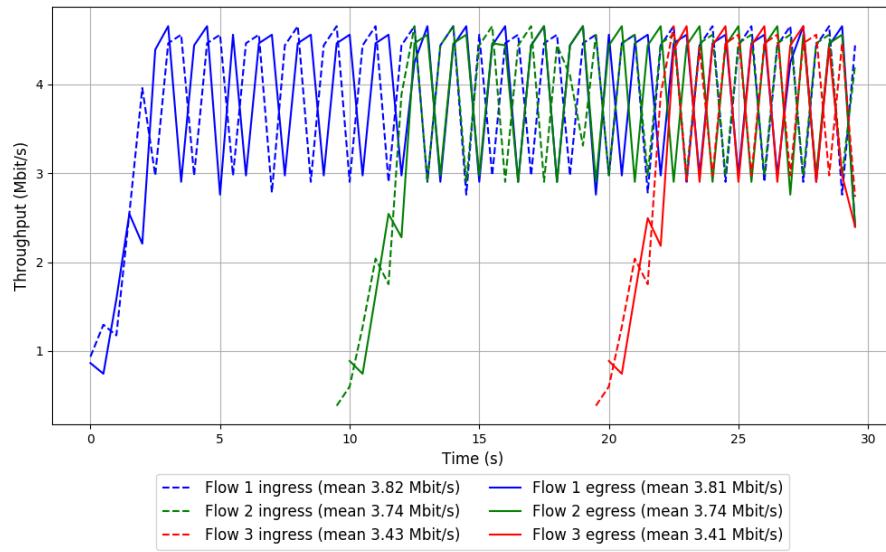
Run 4: Statistics of KohoCC

Start at: 2017-09-08 11:41:40

End at: 2017-09-08 11:42:10

```
# Below is generated by plot.py at 2017-09-08 16:13:27
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 164.943 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 164.894 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 164.885 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 165.330 ms
Loss rate: 3.52%
```

Run 4: Report of KohoCC — Data Link



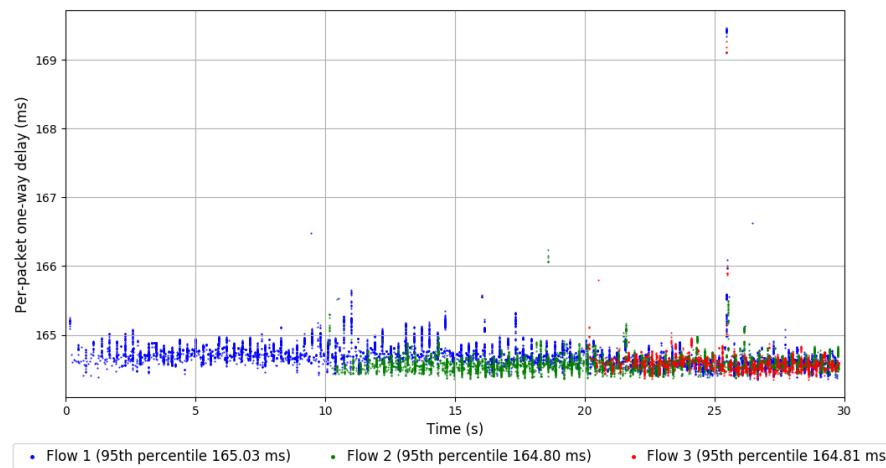
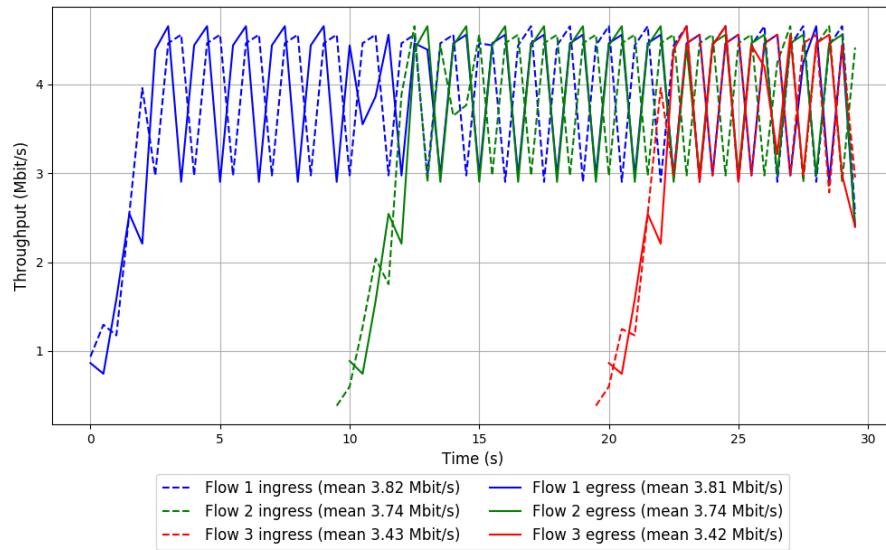
Run 5: Statistics of KohoCC

Start at: 2017-09-08 11:55:21

End at: 2017-09-08 11:55:51

```
# Below is generated by plot.py at 2017-09-08 16:13:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 164.941 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 165.025 ms
Loss rate: 1.12%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 164.804 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 164.813 ms
Loss rate: 3.52%
```

Run 5: Report of KohoCC — Data Link



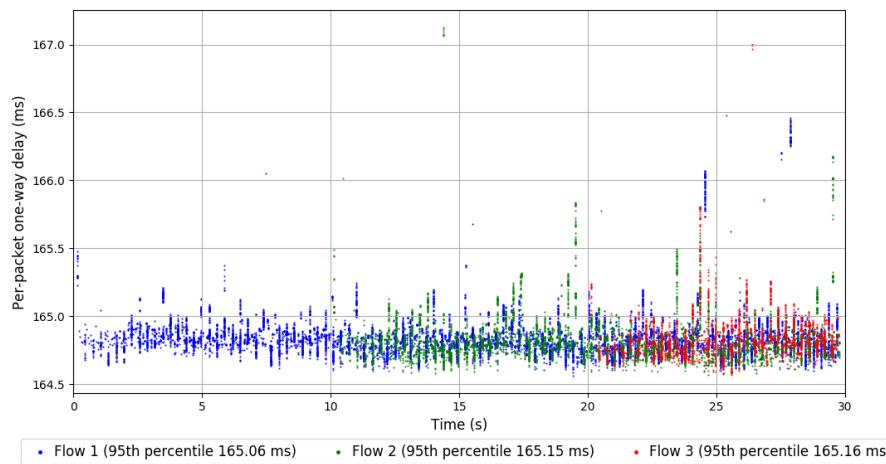
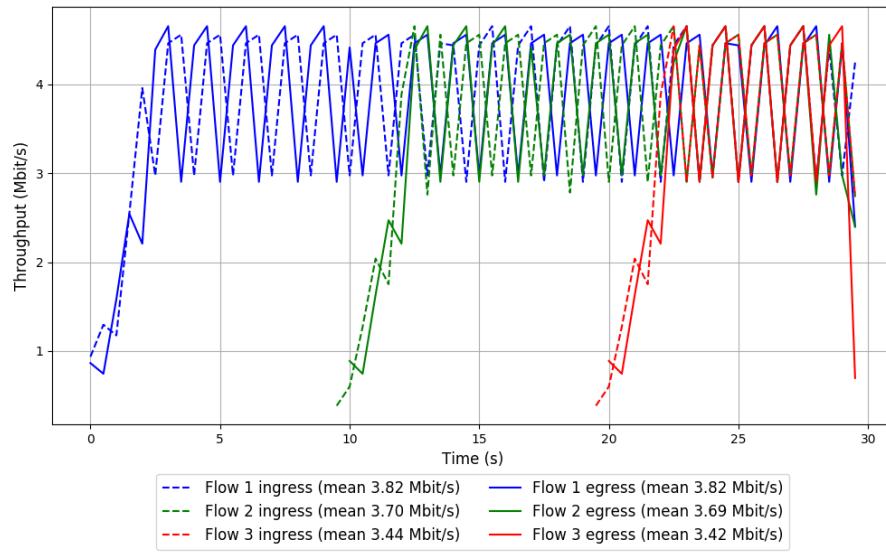
Run 6: Statistics of KohoCC

Start at: 2017-09-08 12:08:33

End at: 2017-09-08 12:09:03

```
# Below is generated by plot.py at 2017-09-08 16:13:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.37 Mbit/s
95th percentile per-packet one-way delay: 165.105 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.82 Mbit/s
95th percentile per-packet one-way delay: 165.055 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 165.148 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 165.163 ms
Loss rate: 3.52%
```

Run 6: Report of KohoCC — Data Link



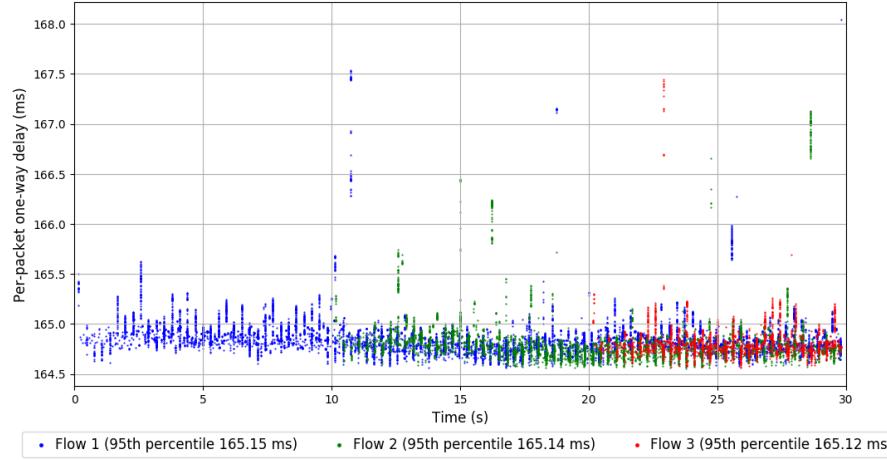
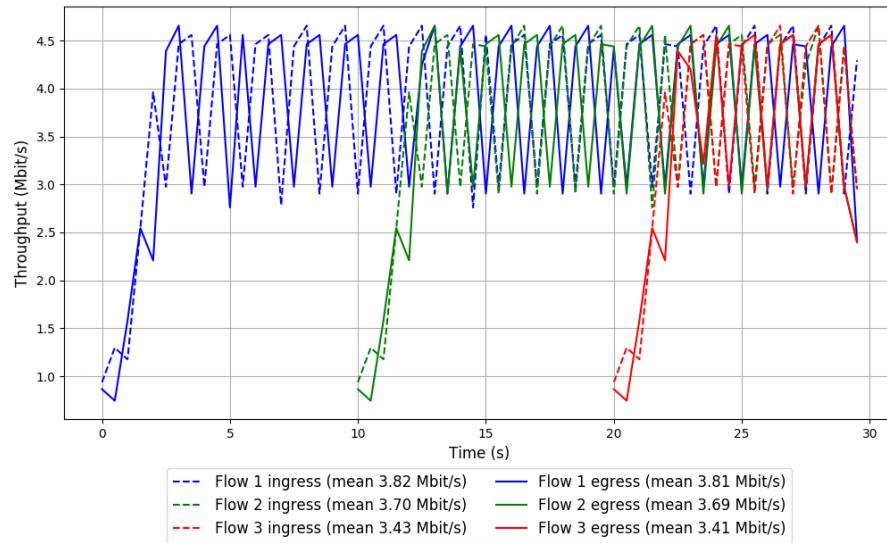
Run 7: Statistics of KohoCC

Start at: 2017-09-08 12:21:51

End at: 2017-09-08 12:22:21

```
# Below is generated by plot.py at 2017-09-08 16:13:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.36 Mbit/s
95th percentile per-packet one-way delay: 165.142 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 165.146 ms
Loss rate: 1.04%
-- Flow 2:
Average throughput: 3.69 Mbit/s
95th percentile per-packet one-way delay: 165.143 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 165.118 ms
Loss rate: 3.52%
```

Run 7: Report of KohoCC — Data Link



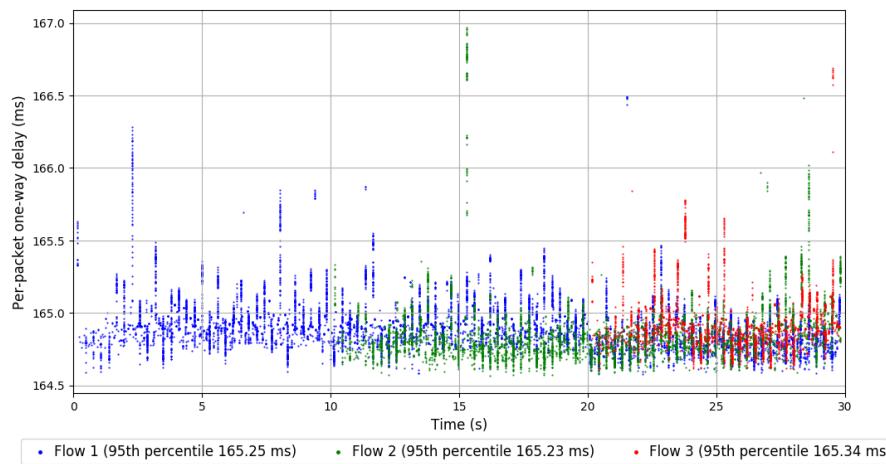
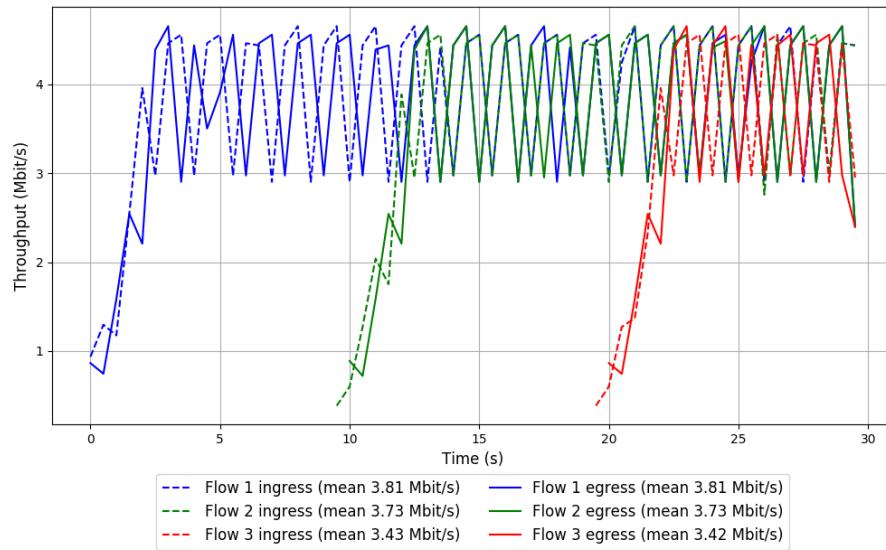
Run 8: Statistics of KohoCC

Start at: 2017-09-08 12:35:16

End at: 2017-09-08 12:35:46

```
# Below is generated by plot.py at 2017-09-08 16:13:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 165.258 ms
Loss rate: 1.63%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 165.245 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 165.233 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 165.342 ms
Loss rate: 3.52%
```

Run 8: Report of KohoCC — Data Link



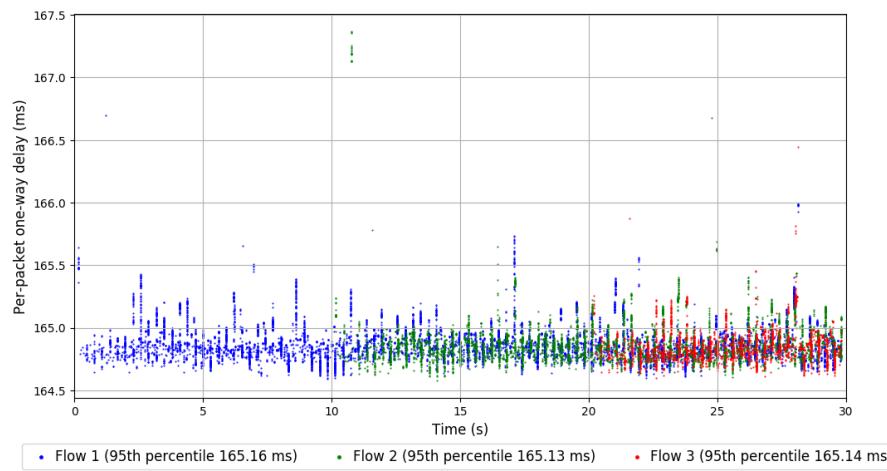
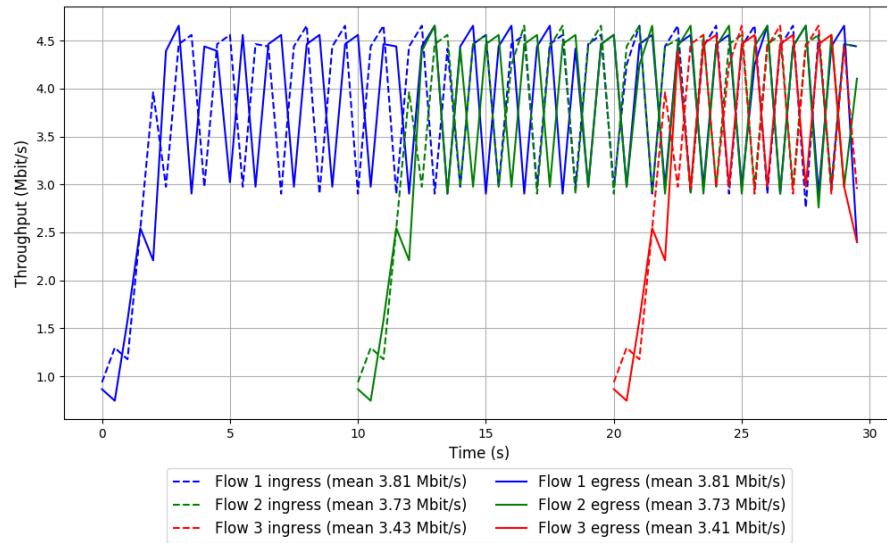
Run 9: Statistics of KohoCC

Start at: 2017-09-08 12:48:33

End at: 2017-09-08 12:49:03

```
# Below is generated by plot.py at 2017-09-08 16:13:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.39 Mbit/s
95th percentile per-packet one-way delay: 165.143 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 165.157 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.73 Mbit/s
95th percentile per-packet one-way delay: 165.133 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 165.138 ms
Loss rate: 3.52%
```

Run 9: Report of KohoCC — Data Link



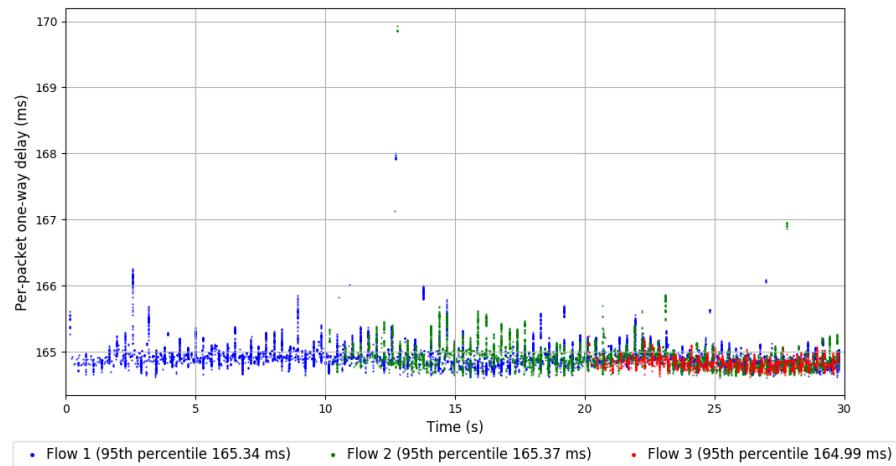
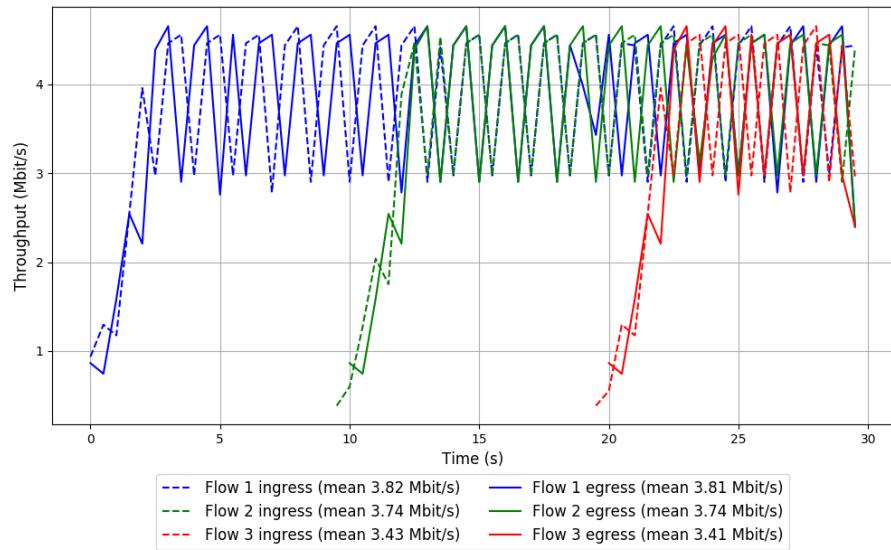
Run 10: Statistics of KohoCC

Start at: 2017-09-08 13:01:54

End at: 2017-09-08 13:02:24

```
# Below is generated by plot.py at 2017-09-08 16:13:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 7.40 Mbit/s
95th percentile per-packet one-way delay: 165.315 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 165.336 ms
Loss rate: 1.05%
-- Flow 2:
Average throughput: 3.74 Mbit/s
95th percentile per-packet one-way delay: 165.369 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 3.41 Mbit/s
95th percentile per-packet one-way delay: 164.987 ms
Loss rate: 3.52%
```

Run 10: Report of KohoCC — Data Link

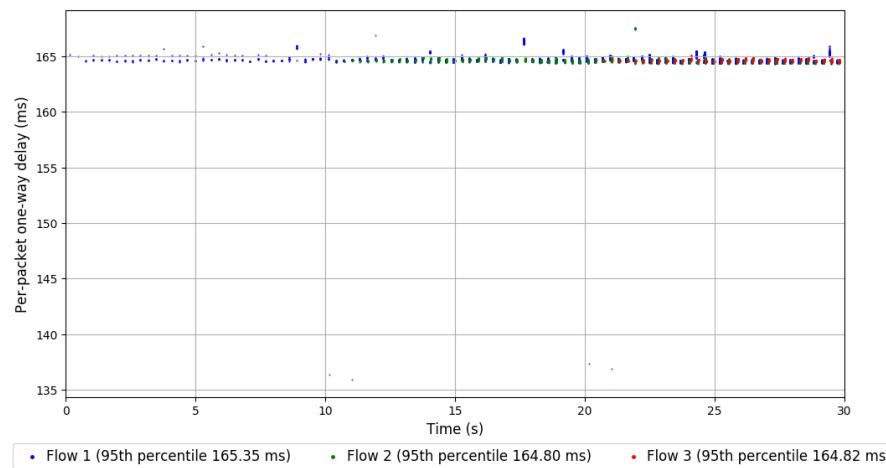
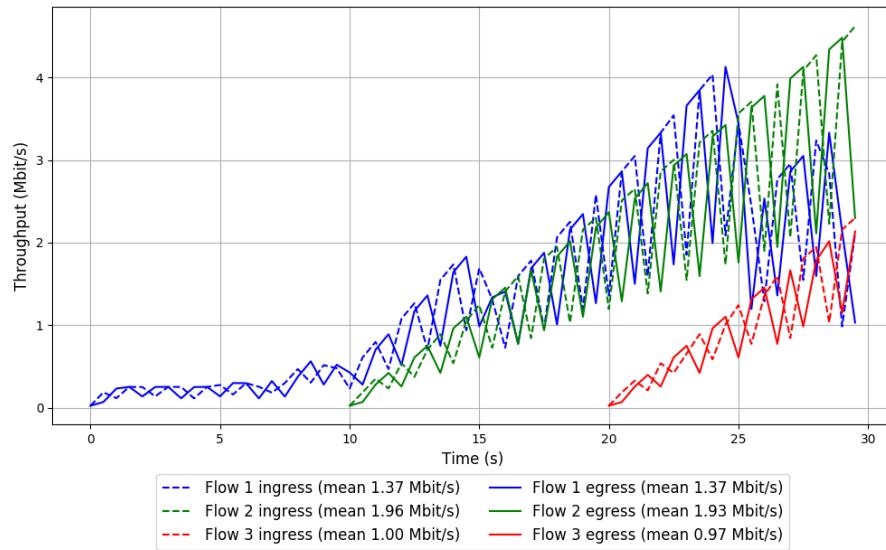


```
Run 1: Statistics of LEDBAT

Start at: 2017-09-08 11:02:45
End at: 2017-09-08 11:03:16

# Below is generated by plot.py at 2017-09-08 16:13:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 165.021 ms
Loss rate: 2.54%
-- Flow 1:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 165.347 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 1.93 Mbit/s
95th percentile per-packet one-way delay: 164.796 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 164.819 ms
Loss rate: 5.89%
```

Run 1: Report of LEDBAT — Data Link



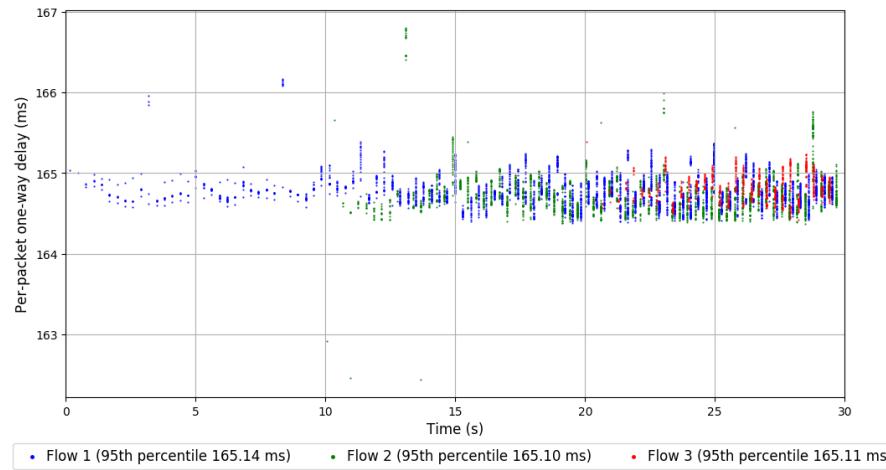
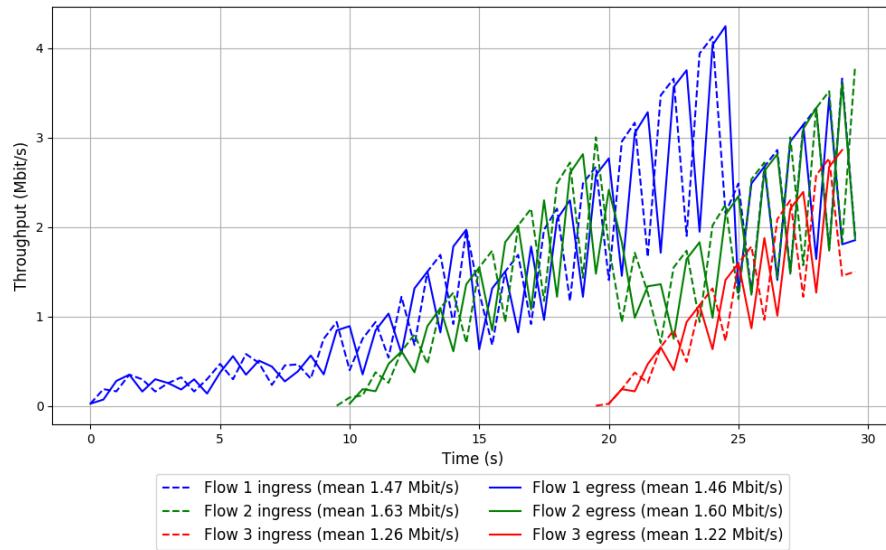
Run 2: Statistics of LEDBAT

Start at: 2017-09-08 11:16:42

End at: 2017-09-08 11:17:12

```
# Below is generated by plot.py at 2017-09-08 16:13:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 2.90 Mbit/s
95th percentile per-packet one-way delay: 165.119 ms
Loss rate: 3.02%
-- Flow 1:
Average throughput: 1.46 Mbit/s
95th percentile per-packet one-way delay: 165.137 ms
Loss rate: 2.17%
-- Flow 2:
Average throughput: 1.60 Mbit/s
95th percentile per-packet one-way delay: 165.099 ms
Loss rate: 2.96%
-- Flow 3:
Average throughput: 1.22 Mbit/s
95th percentile per-packet one-way delay: 165.106 ms
Loss rate: 6.19%
```

Run 2: Report of LEDBAT — Data Link



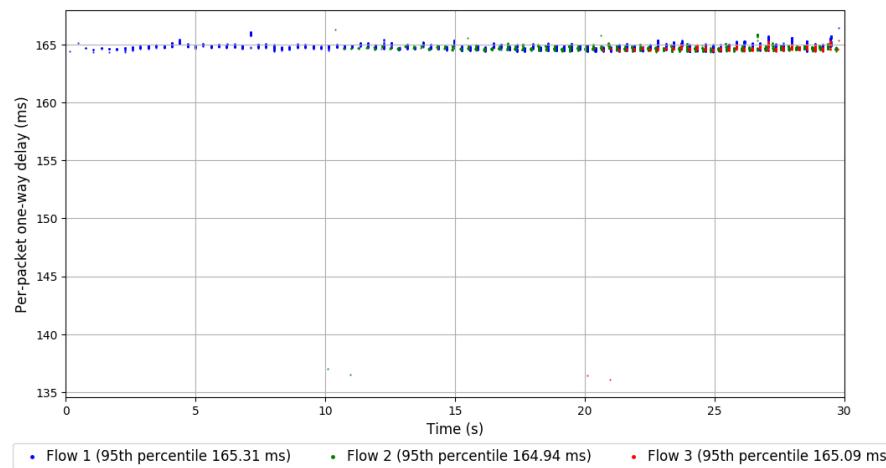
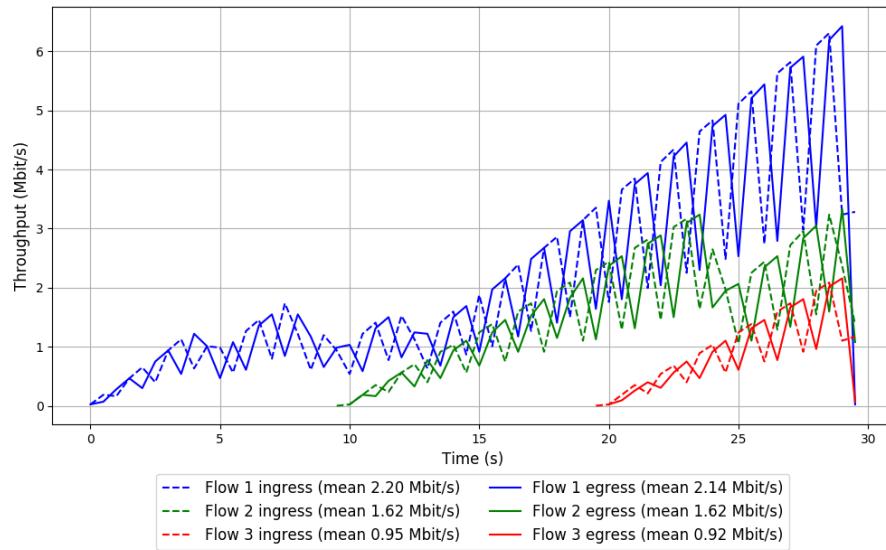
Run 3: Statistics of LEDBAT

Start at: 2017-09-08 11:30:40

End at: 2017-09-08 11:31:10

```
# Below is generated by plot.py at 2017-09-08 16:13:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 3.51 Mbit/s
95th percentile per-packet one-way delay: 165.217 ms
Loss rate: 2.51%
-- Flow 1:
Average throughput: 2.14 Mbit/s
95th percentile per-packet one-way delay: 165.313 ms
Loss rate: 2.50%
-- Flow 2:
Average throughput: 1.62 Mbit/s
95th percentile per-packet one-way delay: 164.939 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 165.087 ms
Loss rate: 5.86%
```

Run 3: Report of LEDBAT — Data Link



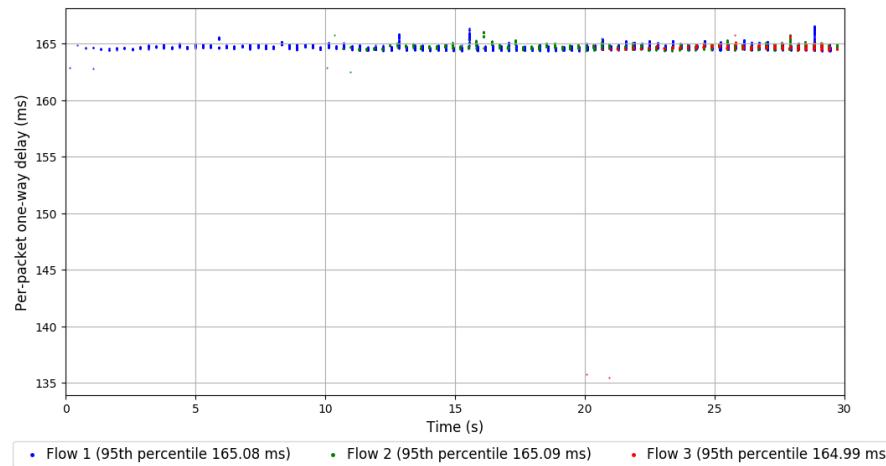
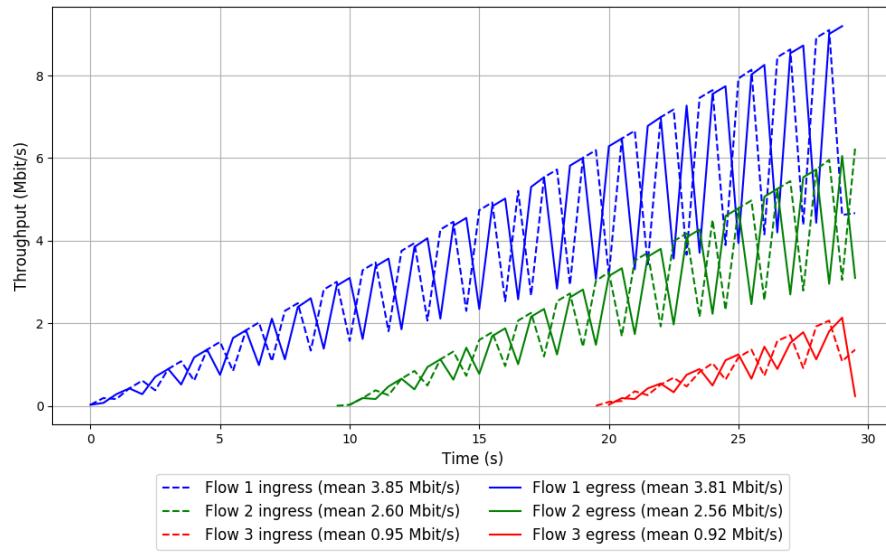
Run 4: Statistics of LEDBAT

Start at: 2017-09-08 11:44:38

End at: 2017-09-08 11:45:08

```
# Below is generated by plot.py at 2017-09-08 16:13:43
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.78 Mbit/s
95th percentile per-packet one-way delay: 165.072 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 165.079 ms
Loss rate: 2.05%
-- Flow 2:
Average throughput: 2.56 Mbit/s
95th percentile per-packet one-way delay: 165.088 ms
Loss rate: 3.04%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 164.989 ms
Loss rate: 5.97%
```

Run 4: Report of LEDBAT — Data Link



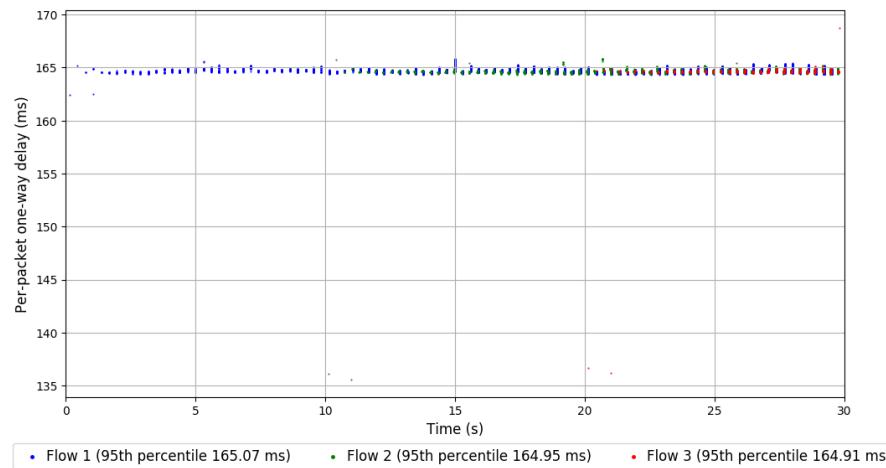
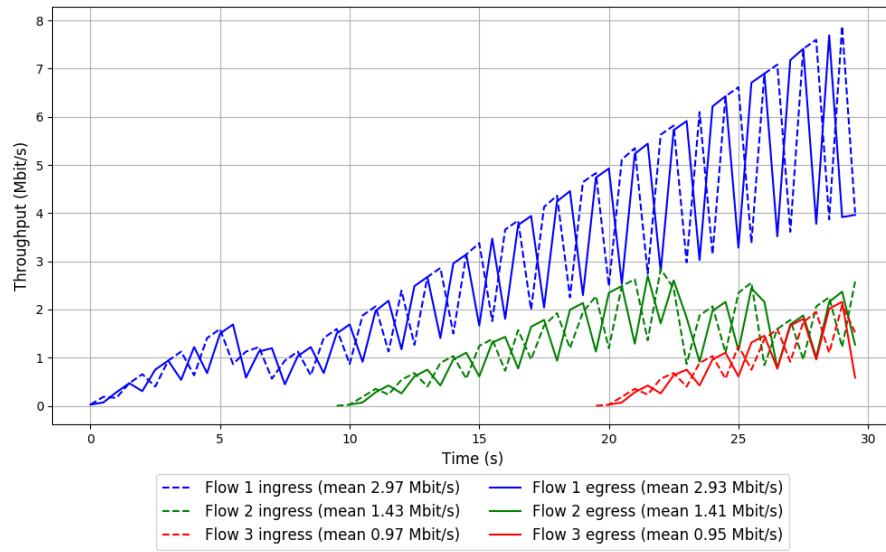
Run 5: Statistics of LEDBAT

Start at: 2017-09-08 11:58:12

End at: 2017-09-08 11:58:42

```
# Below is generated by plot.py at 2017-09-08 16:13:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.15 Mbit/s
95th percentile per-packet one-way delay: 165.051 ms
Loss rate: 2.49%
-- Flow 1:
Average throughput: 2.93 Mbit/s
95th percentile per-packet one-way delay: 165.075 ms
Loss rate: 2.28%
-- Flow 2:
Average throughput: 1.41 Mbit/s
95th percentile per-packet one-way delay: 164.952 ms
Loss rate: 2.31%
-- Flow 3:
Average throughput: 0.95 Mbit/s
95th percentile per-packet one-way delay: 164.914 ms
Loss rate: 4.88%
```

Run 5: Report of LEDBAT — Data Link



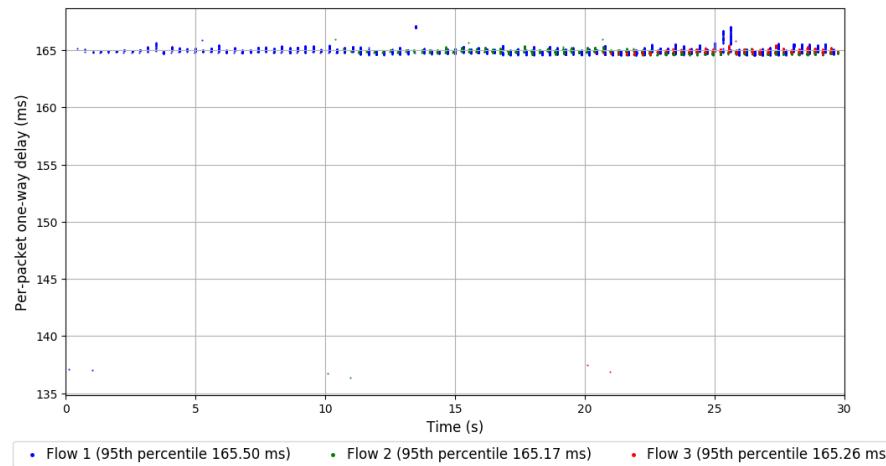
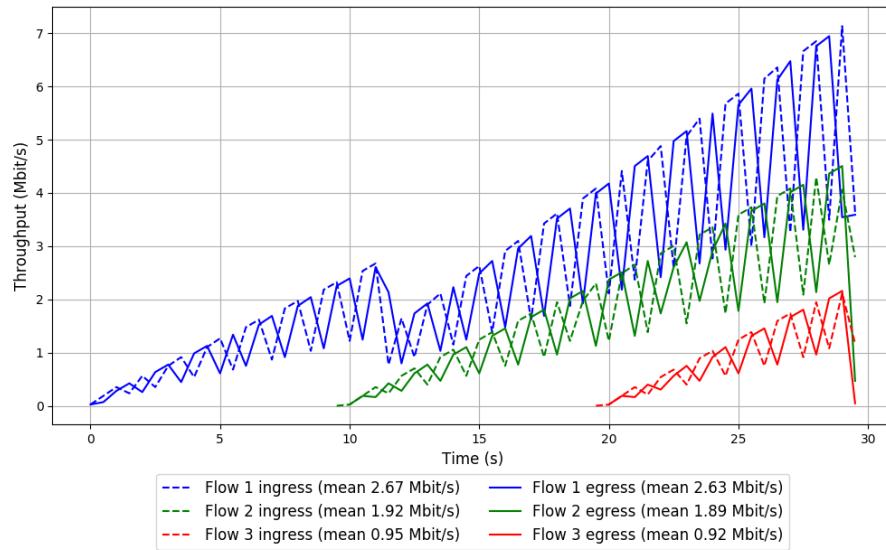
Run 6: Statistics of LEDBAT

Start at: 2017-09-08 12:11:26

End at: 2017-09-08 12:11:56

```
# Below is generated by plot.py at 2017-09-08 16:13:45
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.17 Mbit/s
95th percentile per-packet one-way delay: 165.420 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 2.63 Mbit/s
95th percentile per-packet one-way delay: 165.503 ms
Loss rate: 2.29%
-- Flow 2:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 165.168 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 165.264 ms
Loss rate: 5.98%
```

Run 6: Report of LEDBAT — Data Link



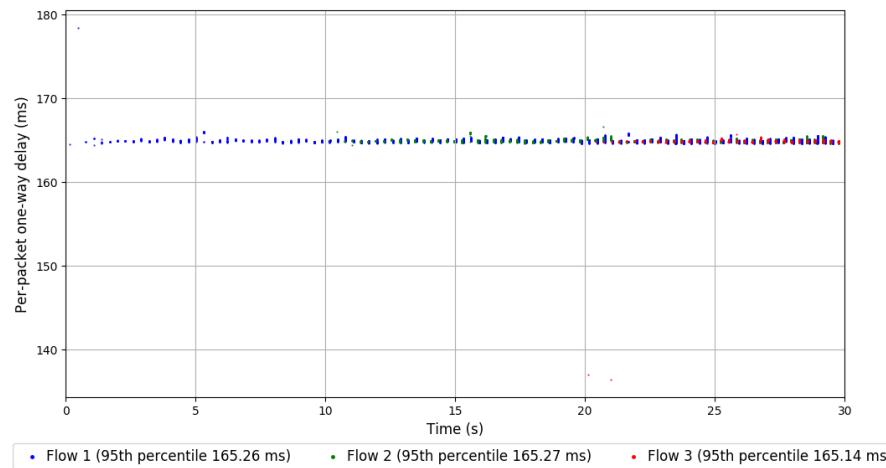
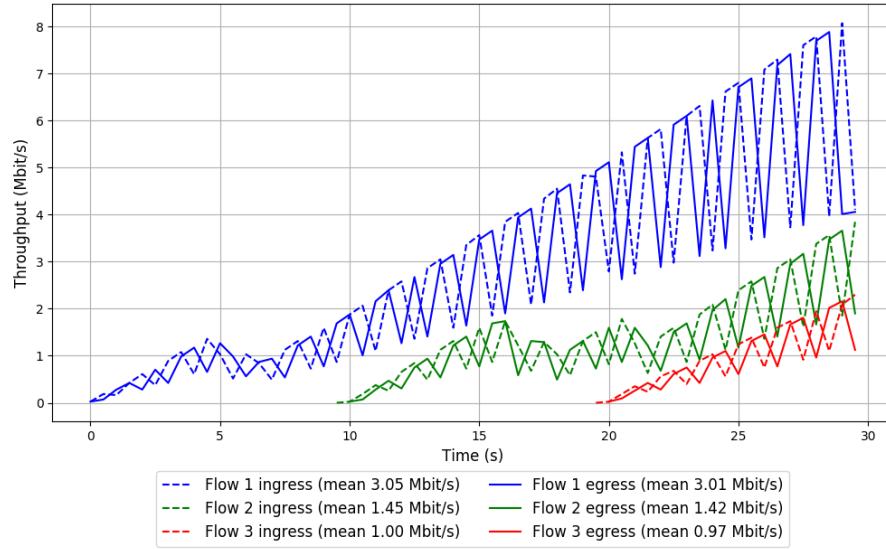
Run 7: Statistics of LEDBAT

Start at: 2017-09-08 12:24:40

End at: 2017-09-08 12:25:10

```
# Below is generated by plot.py at 2017-09-08 16:13:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.25 Mbit/s
95th percentile per-packet one-way delay: 165.250 ms
Loss rate: 2.79%
-- Flow 1:
Average throughput: 3.01 Mbit/s
95th percentile per-packet one-way delay: 165.257 ms
Loss rate: 2.27%
-- Flow 2:
Average throughput: 1.42 Mbit/s
95th percentile per-packet one-way delay: 165.266 ms
Loss rate: 3.37%
-- Flow 3:
Average throughput: 0.97 Mbit/s
95th percentile per-packet one-way delay: 165.137 ms
Loss rate: 5.87%
```

Run 7: Report of LEDBAT — Data Link



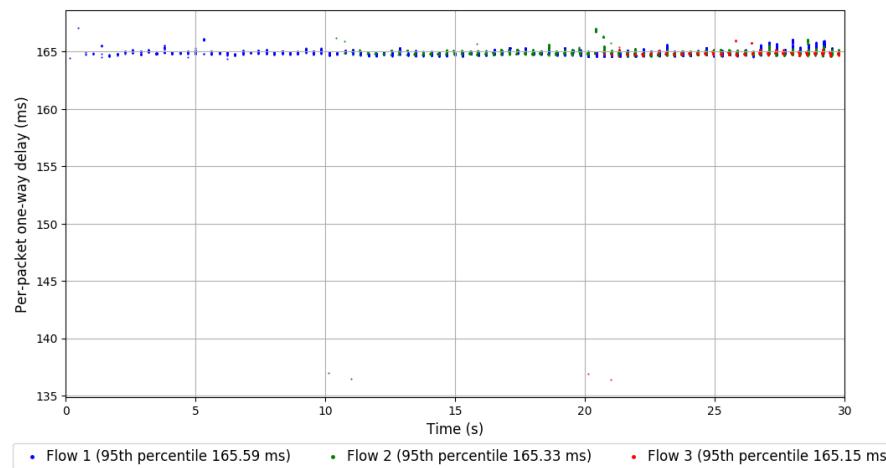
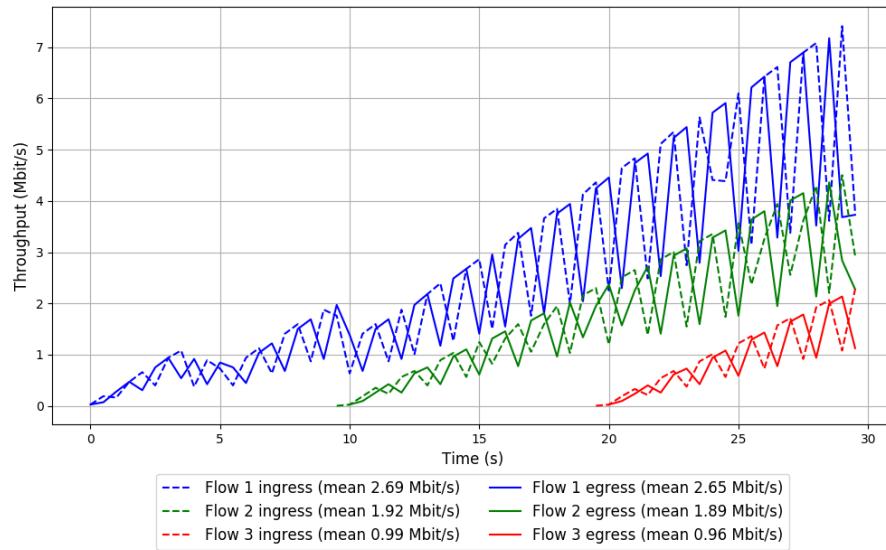
Run 8: Statistics of LEDBAT

Start at: 2017-09-08 12:38:03

End at: 2017-09-08 12:38:33

```
# Below is generated by plot.py at 2017-09-08 16:13:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.19 Mbit/s
95th percentile per-packet one-way delay: 165.551 ms
Loss rate: 2.84%
-- Flow 1:
Average throughput: 2.65 Mbit/s
95th percentile per-packet one-way delay: 165.586 ms
Loss rate: 2.37%
-- Flow 2:
Average throughput: 1.89 Mbit/s
95th percentile per-packet one-way delay: 165.328 ms
Loss rate: 3.03%
-- Flow 3:
Average throughput: 0.96 Mbit/s
95th percentile per-packet one-way delay: 165.146 ms
Loss rate: 5.85%
```

Run 8: Report of LEDBAT — Data Link



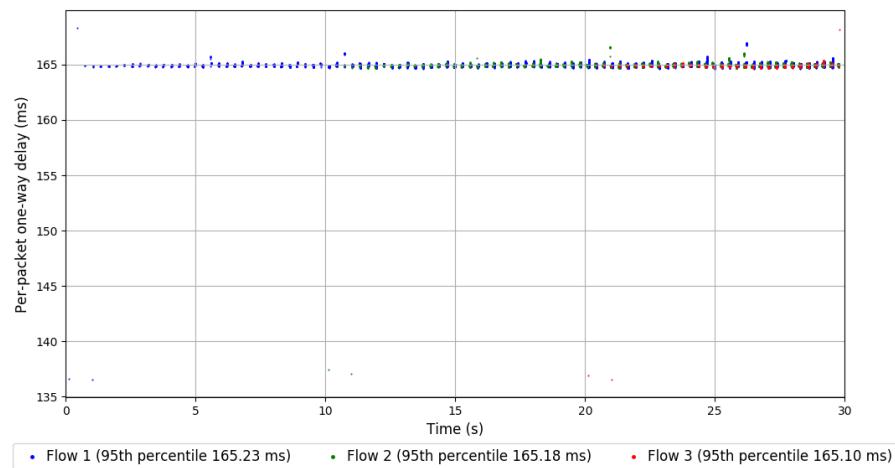
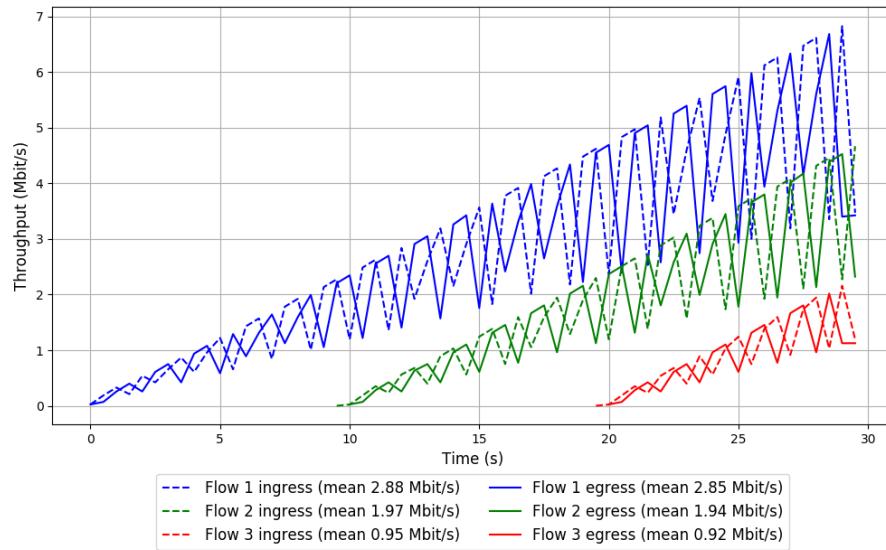
Run 9: Statistics of LEDBAT

Start at: 2017-09-08 12:51:22

End at: 2017-09-08 12:51:52

```
# Below is generated by plot.py at 2017-09-08 16:13:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.41 Mbit/s
95th percentile per-packet one-way delay: 165.215 ms
Loss rate: 2.58%
-- Flow 1:
Average throughput: 2.85 Mbit/s
95th percentile per-packet one-way delay: 165.228 ms
Loss rate: 2.03%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 165.184 ms
Loss rate: 2.98%
-- Flow 3:
Average throughput: 0.92 Mbit/s
95th percentile per-packet one-way delay: 165.100 ms
Loss rate: 5.85%
```

Run 9: Report of LEDBAT — Data Link



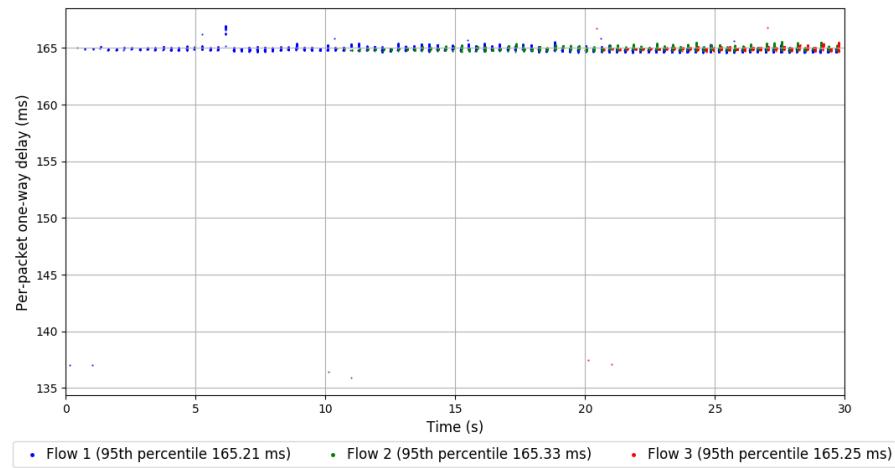
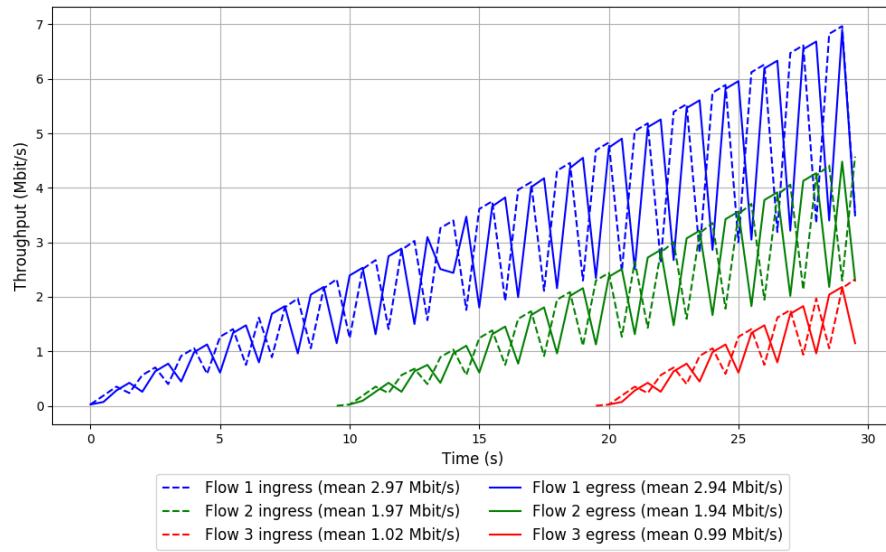
Run 10: Statistics of LEDBAT

Start at: 2017-09-08 13:04:46

End at: 2017-09-08 13:05:16

```
# Below is generated by plot.py at 2017-09-08 16:13:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.53 Mbit/s
95th percentile per-packet one-way delay: 165.249 ms
Loss rate: 2.55%
-- Flow 1:
Average throughput: 2.94 Mbit/s
95th percentile per-packet one-way delay: 165.207 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 1.94 Mbit/s
95th percentile per-packet one-way delay: 165.332 ms
Loss rate: 2.97%
-- Flow 3:
Average throughput: 0.99 Mbit/s
95th percentile per-packet one-way delay: 165.245 ms
Loss rate: 5.79%
```

Run 10: Report of LEDBAT — Data Link

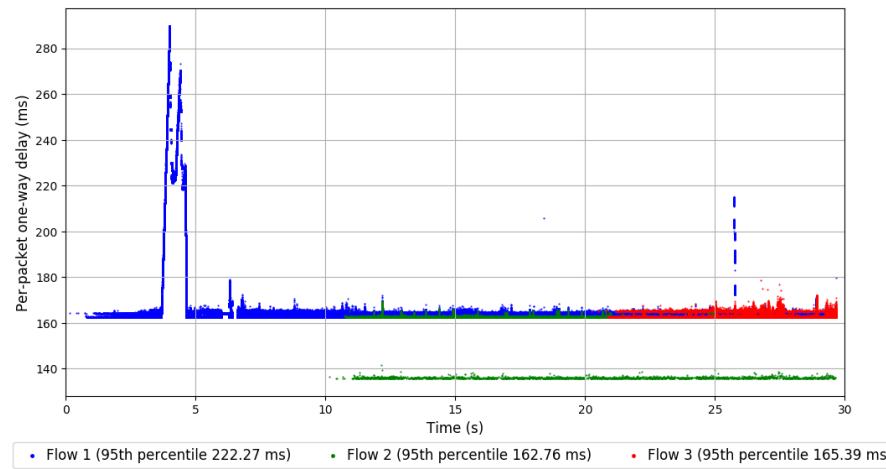
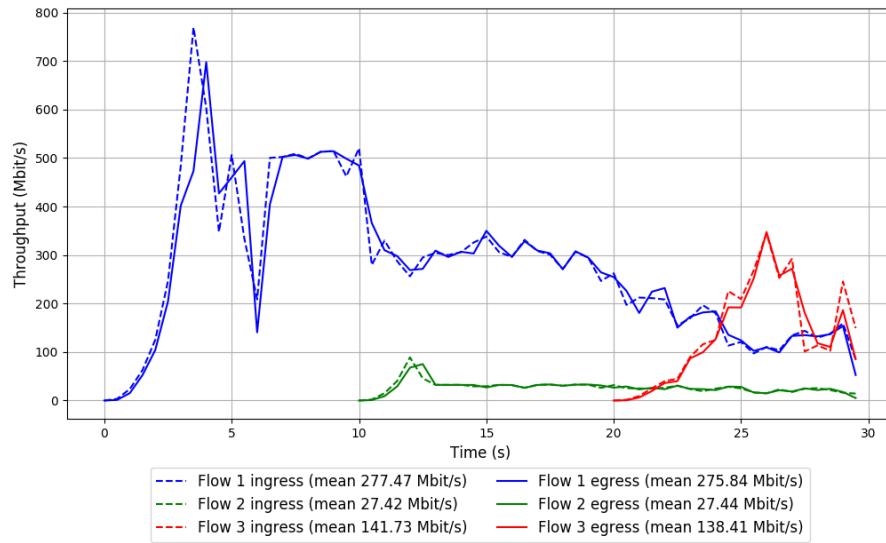


```
Run 1: Statistics of PCC

Start at: 2017-09-08 10:57:40
End at: 2017-09-08 10:58:10

# Below is generated by plot.py at 2017-09-08 16:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 338.17 Mbit/s
95th percentile per-packet one-way delay: 206.085 ms
Loss rate: 2.06%
-- Flow 1:
Average throughput: 275.84 Mbit/s
95th percentile per-packet one-way delay: 222.266 ms
Loss rate: 1.56%
-- Flow 2:
Average throughput: 27.44 Mbit/s
95th percentile per-packet one-way delay: 162.764 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 138.41 Mbit/s
95th percentile per-packet one-way delay: 165.392 ms
Loss rate: 5.37%
```

Run 1: Report of PCC — Data Link



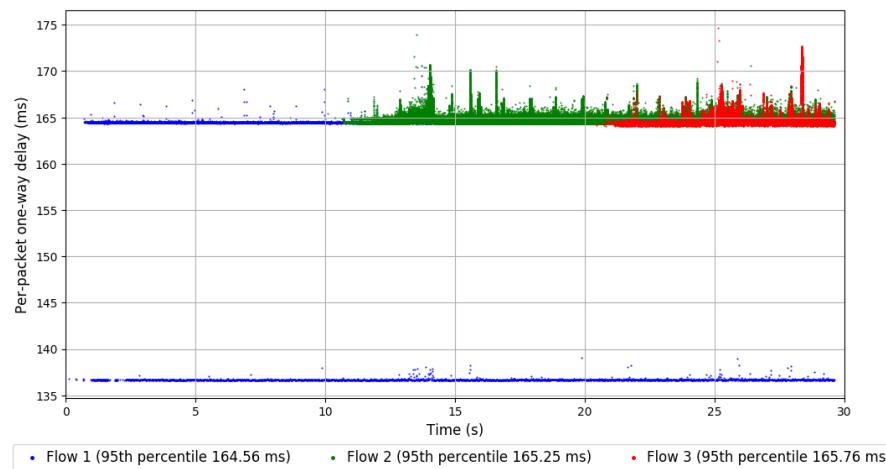
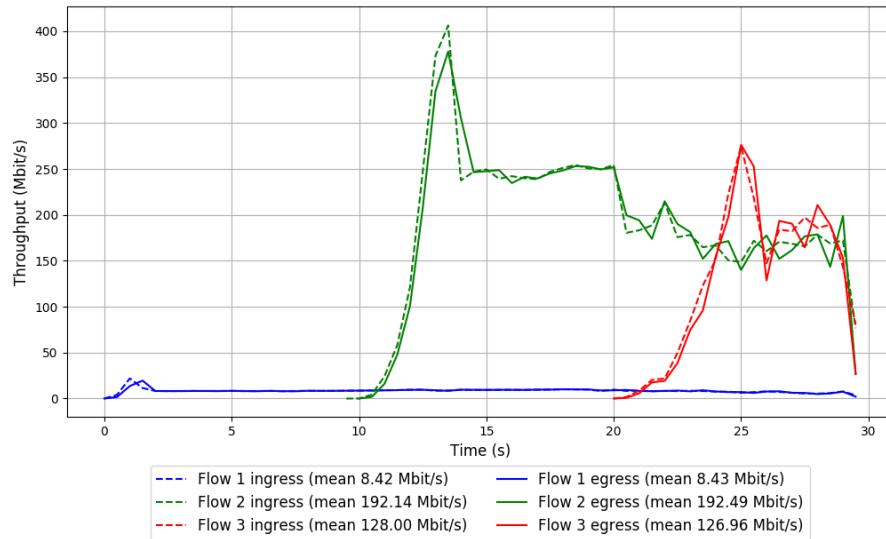
Run 2: Statistics of PCC

Start at: 2017-09-08 11:11:43

End at: 2017-09-08 11:12:13

```
# Below is generated by plot.py at 2017-09-08 16:14:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 176.49 Mbit/s
95th percentile per-packet one-way delay: 165.330 ms
Loss rate: 1.92%
-- Flow 1:
Average throughput: 8.43 Mbit/s
95th percentile per-packet one-way delay: 164.564 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 192.49 Mbit/s
95th percentile per-packet one-way delay: 165.246 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 126.96 Mbit/s
95th percentile per-packet one-way delay: 165.764 ms
Loss rate: 3.86%
```

Run 2: Report of PCC — Data Link



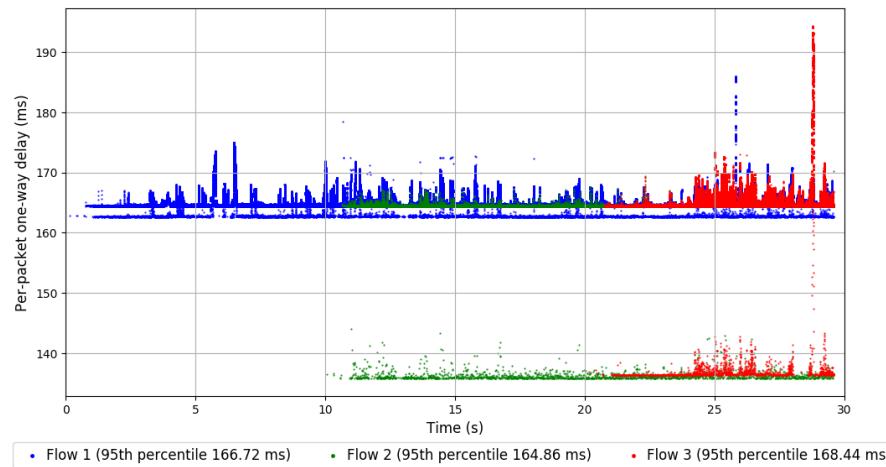
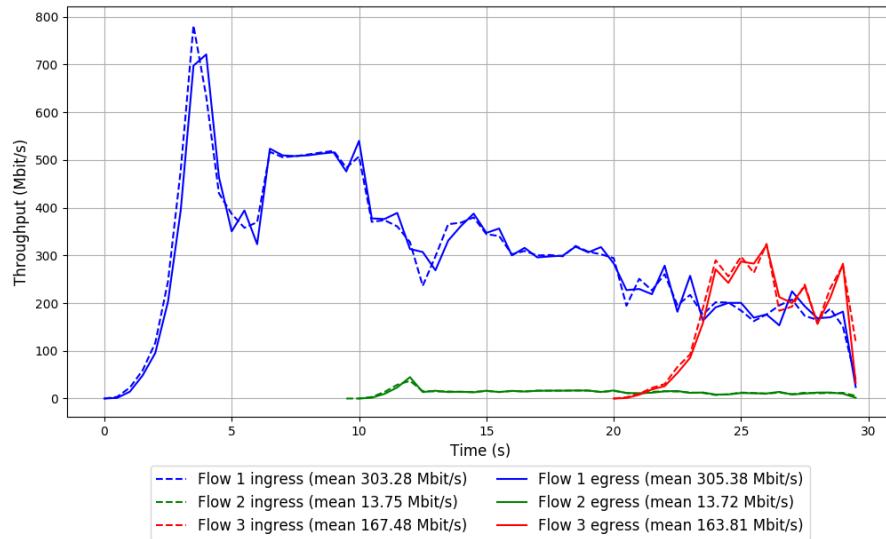
Run 3: Statistics of PCC

Start at: 2017-09-08 11:25:40

End at: 2017-09-08 11:26:10

```
# Below is generated by plot.py at 2017-09-08 16:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 366.94 Mbit/s
95th percentile per-packet one-way delay: 166.994 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 305.38 Mbit/s
95th percentile per-packet one-way delay: 166.723 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 13.72 Mbit/s
95th percentile per-packet one-way delay: 164.858 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 163.81 Mbit/s
95th percentile per-packet one-way delay: 168.444 ms
Loss rate: 4.91%
```

Run 3: Report of PCC — Data Link



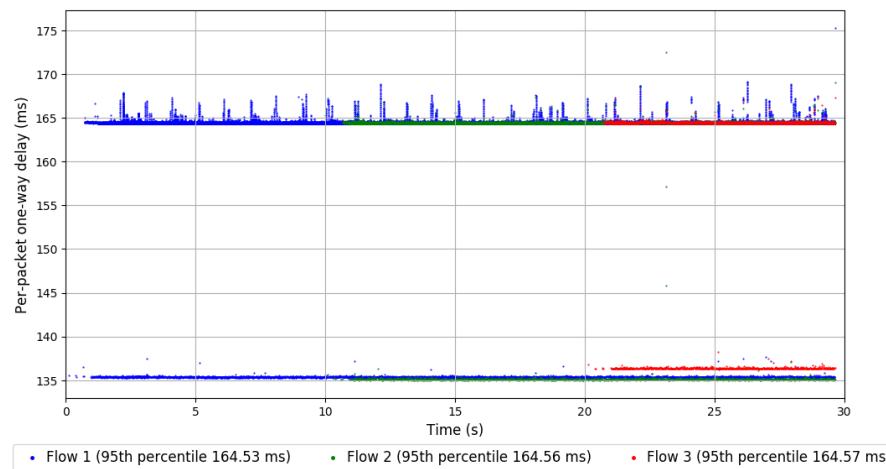
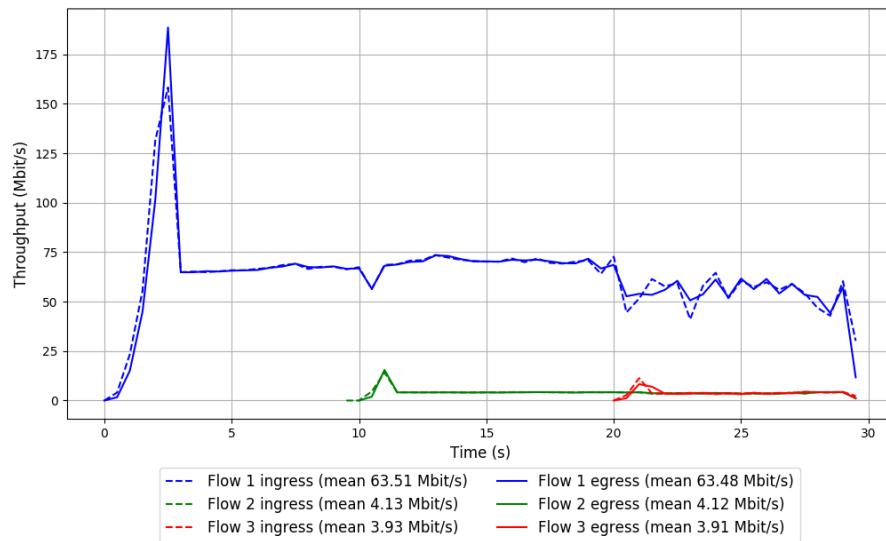
Run 4: Statistics of PCC

Start at: 2017-09-08 11:39:42

End at: 2017-09-08 11:40:12

```
# Below is generated by plot.py at 2017-09-08 16:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.46 Mbit/s
95th percentile per-packet one-way delay: 164.532 ms
Loss rate: 1.00%
-- Flow 1:
Average throughput: 63.48 Mbit/s
95th percentile per-packet one-way delay: 164.528 ms
Loss rate: 0.94%
-- Flow 2:
Average throughput: 4.12 Mbit/s
95th percentile per-packet one-way delay: 164.564 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 3.91 Mbit/s
95th percentile per-packet one-way delay: 164.570 ms
Loss rate: 3.40%
```

Run 4: Report of PCC — Data Link



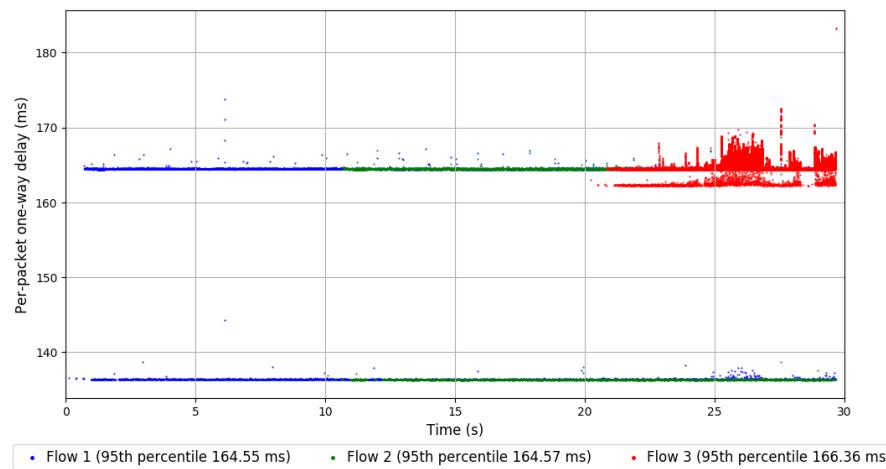
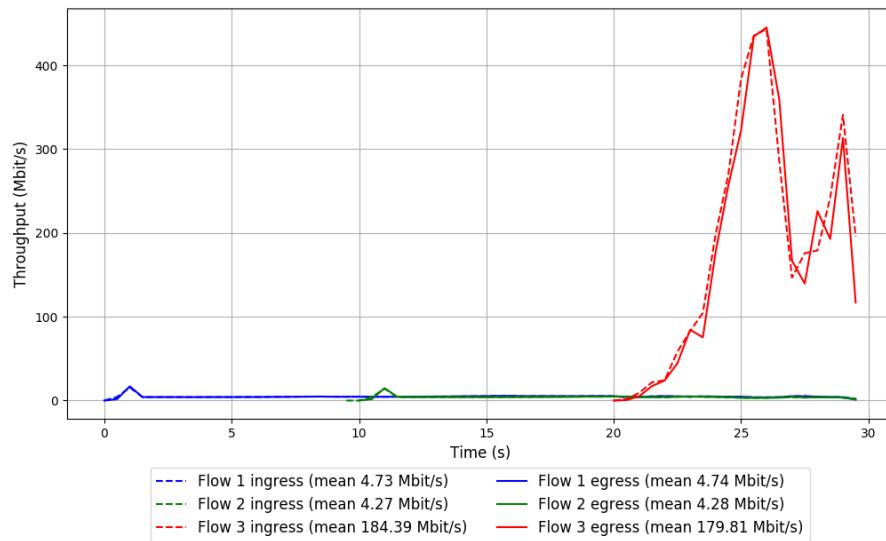
Run 5: Statistics of PCC

Start at: 2017-09-08 11:53:29

End at: 2017-09-08 11:53:59

```
# Below is generated by plot.py at 2017-09-08 16:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 65.14 Mbit/s
95th percentile per-packet one-way delay: 166.246 ms
Loss rate: 5.00%
-- Flow 1:
Average throughput: 4.74 Mbit/s
95th percentile per-packet one-way delay: 164.552 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 4.28 Mbit/s
95th percentile per-packet one-way delay: 164.570 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 179.81 Mbit/s
95th percentile per-packet one-way delay: 166.360 ms
Loss rate: 5.50%
```

Run 5: Report of PCC — Data Link



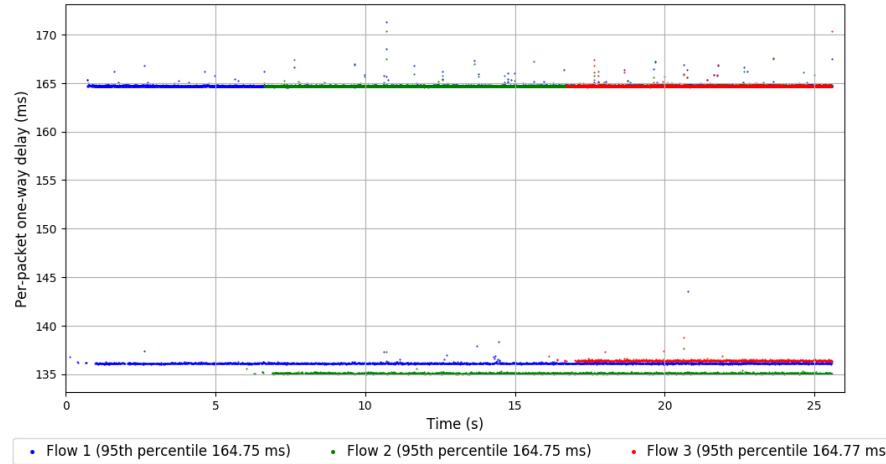
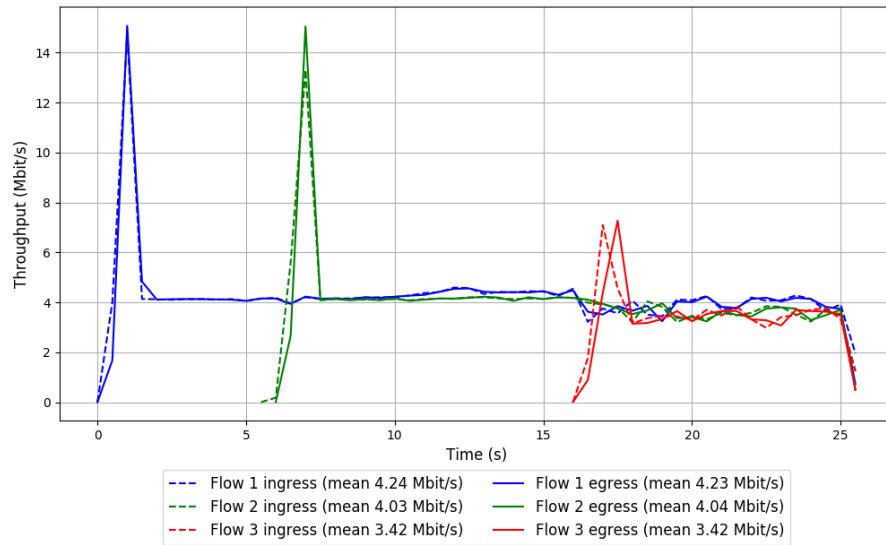
Run 6: Statistics of PCC

Start at: 2017-09-08 12:06:47

End at: 2017-09-08 12:07:17

```
# Below is generated by plot.py at 2017-09-08 16:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.61 Mbit/s
95th percentile per-packet one-way delay: 164.757 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 4.23 Mbit/s
95th percentile per-packet one-way delay: 164.755 ms
Loss rate: 1.22%
-- Flow 2:
Average throughput: 4.04 Mbit/s
95th percentile per-packet one-way delay: 164.751 ms
Loss rate: 1.06%
-- Flow 3:
Average throughput: 3.42 Mbit/s
95th percentile per-packet one-way delay: 164.773 ms
Loss rate: 2.73%
```

Run 6: Report of PCC — Data Link



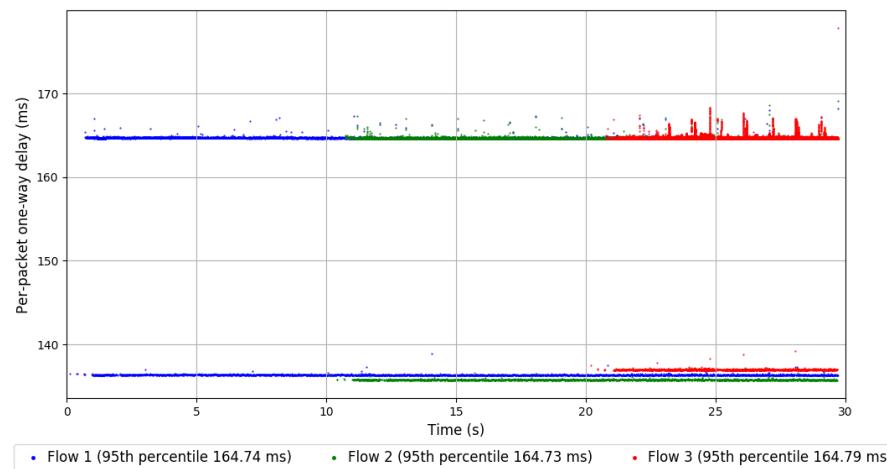
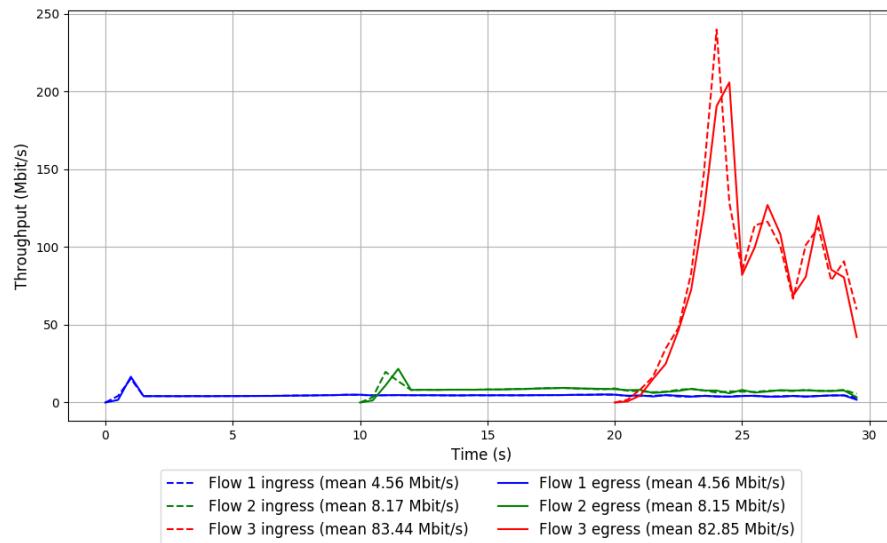
Run 7: Statistics of PCC

Start at: 2017-09-08 12:19:57

End at: 2017-09-08 12:20:27

```
# Below is generated by plot.py at 2017-09-08 16:15:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 36.62 Mbit/s
95th percentile per-packet one-way delay: 164.771 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 164.743 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 8.15 Mbit/s
95th percentile per-packet one-way delay: 164.731 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 82.85 Mbit/s
95th percentile per-packet one-way delay: 164.791 ms
Loss rate: 3.38%
```

Run 7: Report of PCC — Data Link



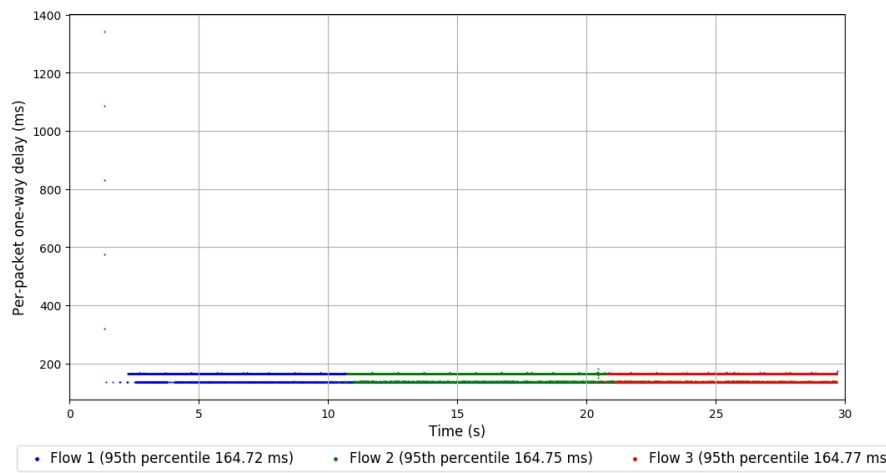
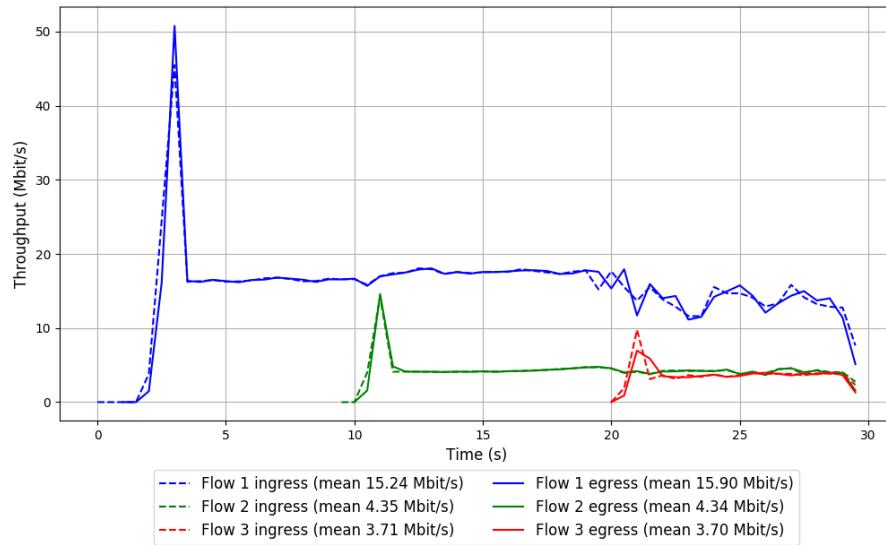
Run 8: Statistics of PCC

Start at: 2017-09-08 12:33:30

End at: 2017-09-08 12:34:00

```
# Below is generated by plot.py at 2017-09-08 16:15:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.12 Mbit/s
95th percentile per-packet one-way delay: 164.730 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 15.90 Mbit/s
95th percentile per-packet one-way delay: 164.719 ms
Loss rate: 0.81%
-- Flow 2:
Average throughput: 4.34 Mbit/s
95th percentile per-packet one-way delay: 164.751 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 3.70 Mbit/s
95th percentile per-packet one-way delay: 164.771 ms
Loss rate: 3.13%
```

Run 8: Report of PCC — Data Link



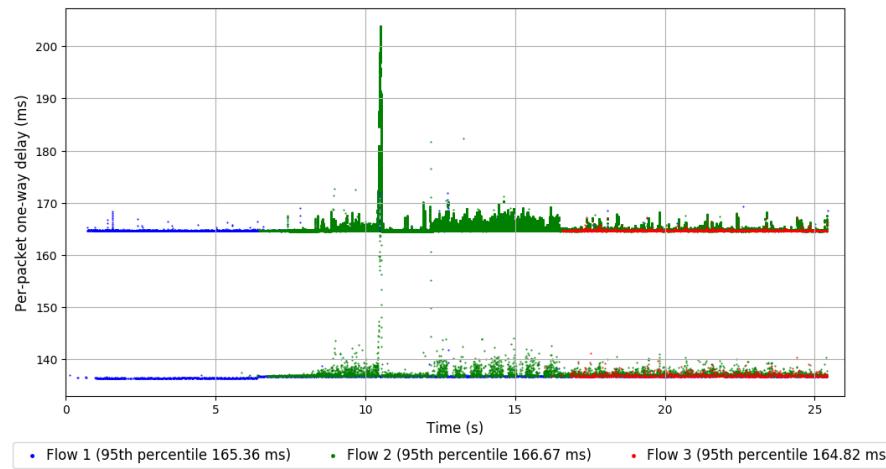
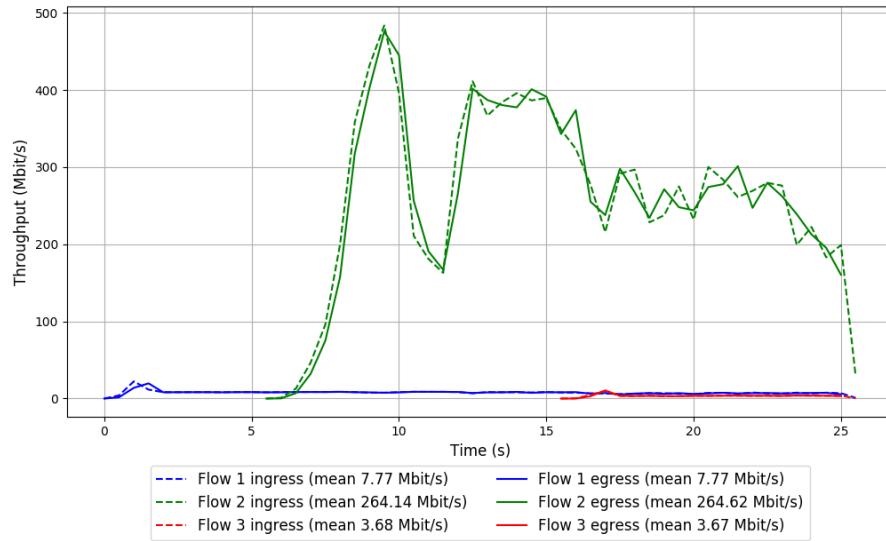
Run 9: Statistics of PCC

Start at: 2017-09-08 12:46:37

End at: 2017-09-08 12:47:07

```
# Below is generated by plot.py at 2017-09-08 16:16:16
# Datalink statistics
-- Total of 3 flows:
Average throughput: 213.81 Mbit/s
95th percentile per-packet one-way delay: 166.633 ms
Loss rate: 1.22%
-- Flow 1:
Average throughput: 7.77 Mbit/s
95th percentile per-packet one-way delay: 165.356 ms
Loss rate: 1.16%
-- Flow 2:
Average throughput: 264.62 Mbit/s
95th percentile per-packet one-way delay: 166.673 ms
Loss rate: 1.21%
-- Flow 3:
Average throughput: 3.67 Mbit/s
95th percentile per-packet one-way delay: 164.822 ms
Loss rate: 2.94%
```

Run 9: Report of PCC — Data Link



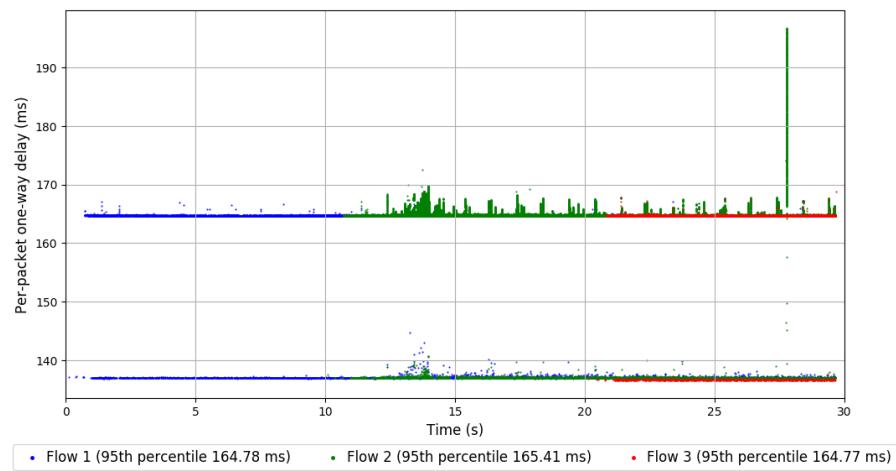
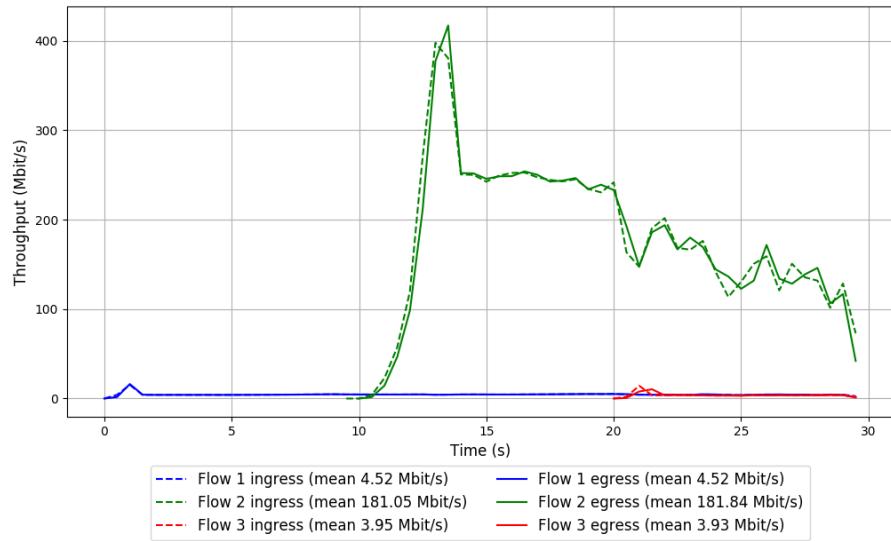
Run 10: Statistics of PCC

Start at: 2017-09-08 13:00:01

End at: 2017-09-08 13:00:31

```
# Below is generated by plot.py at 2017-09-08 16:16:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.19 Mbit/s
95th percentile per-packet one-way delay: 165.363 ms
Loss rate: 1.07%
-- Flow 1:
Average throughput: 4.52 Mbit/s
95th percentile per-packet one-way delay: 164.782 ms
Loss rate: 0.98%
-- Flow 2:
Average throughput: 181.84 Mbit/s
95th percentile per-packet one-way delay: 165.413 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 3.93 Mbit/s
95th percentile per-packet one-way delay: 164.769 ms
Loss rate: 3.25%
```

Run 10: Report of PCC — Data Link

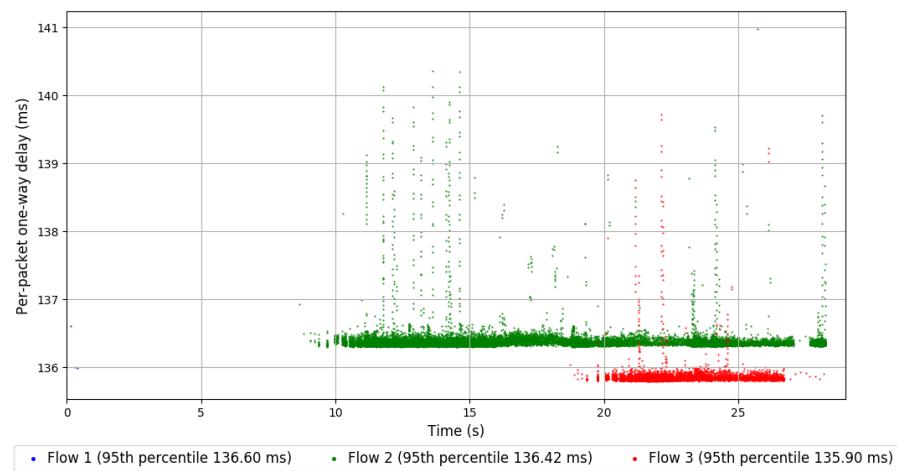
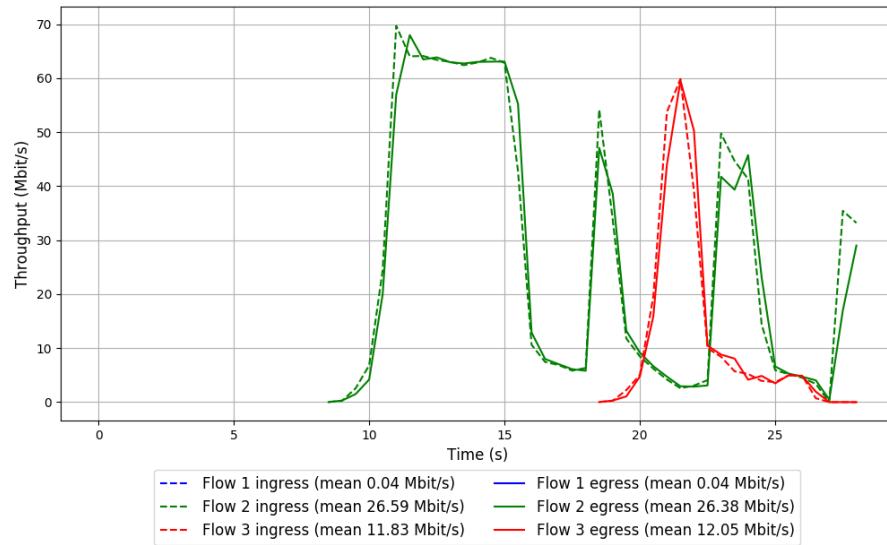


```
Run 1: Statistics of QUIC Cubic

Start at: 2017-09-08 11:04:32
End at: 2017-09-08 11:05:02

# Below is generated by plot.py at 2017-09-08 16:16:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 22.43 Mbit/s
95th percentile per-packet one-way delay: 136.411 ms
Loss rate: 1.76%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.598 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 26.38 Mbit/s
95th percentile per-packet one-way delay: 136.420 ms
Loss rate: 2.14%
-- Flow 3:
Average throughput: 12.05 Mbit/s
95th percentile per-packet one-way delay: 135.899 ms
Loss rate: 0.00%
```

Run 1: Report of QUIC Cubic — Data Link



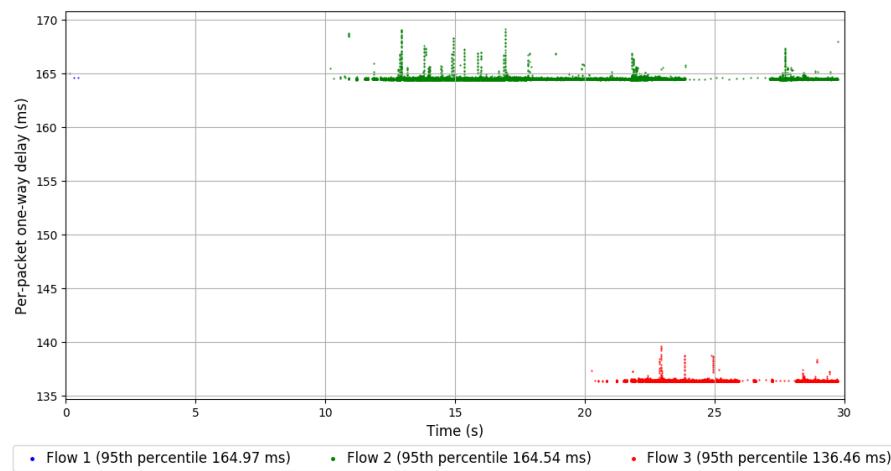
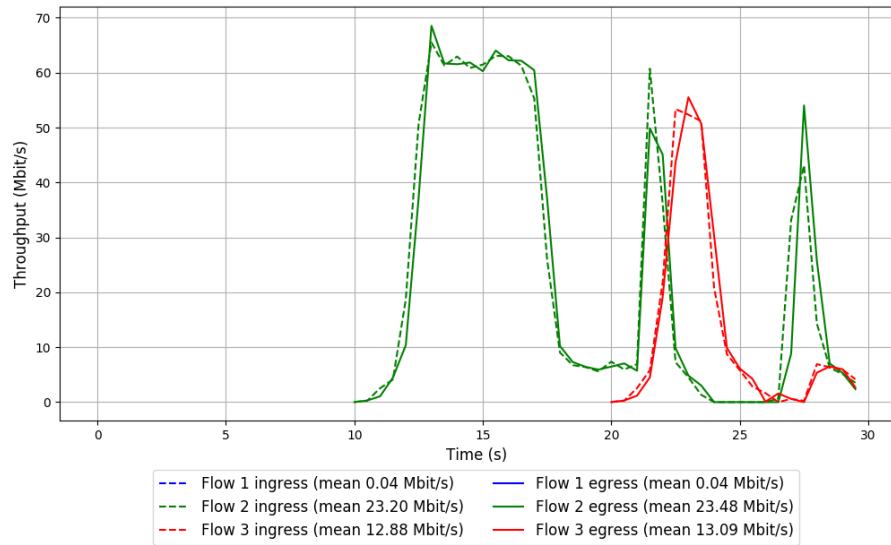
Run 2: Statistics of QUIC Cubic

Start at: 2017-09-08 11:18:26

End at: 2017-09-08 11:18:56

```
# Below is generated by plot.py at 2017-09-08 16:16:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.73 Mbit/s
95th percentile per-packet one-way delay: 164.526 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 164.972 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 164.538 ms
Loss rate: 0.31%
-- Flow 3:
Average throughput: 13.09 Mbit/s
95th percentile per-packet one-way delay: 136.458 ms
Loss rate: 1.22%
```

Run 2: Report of QUIC Cubic — Data Link



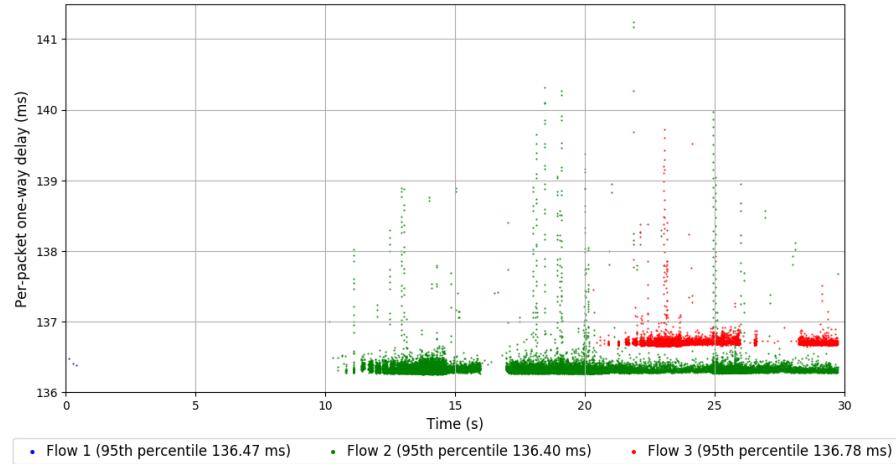
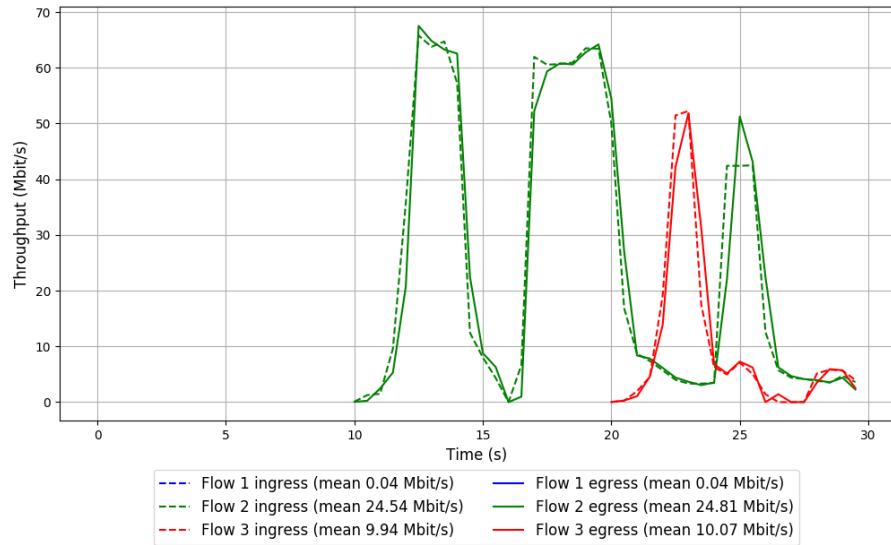
Run 3: Statistics of QUIC Cubic

Start at: 2017-09-08 11:32:24

End at: 2017-09-08 11:32:54

```
# Below is generated by plot.py at 2017-09-08 16:16:21
# Datalink statistics
-- Total of 3 flows:
Average throughput: 19.63 Mbit/s
95th percentile per-packet one-way delay: 136.712 ms
Loss rate: 0.48%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.475 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 24.81 Mbit/s
95th percentile per-packet one-way delay: 136.397 ms
Loss rate: 0.27%
-- Flow 3:
Average throughput: 10.07 Mbit/s
95th percentile per-packet one-way delay: 136.778 ms
Loss rate: 1.54%
```

Run 3: Report of QUIC Cubic — Data Link



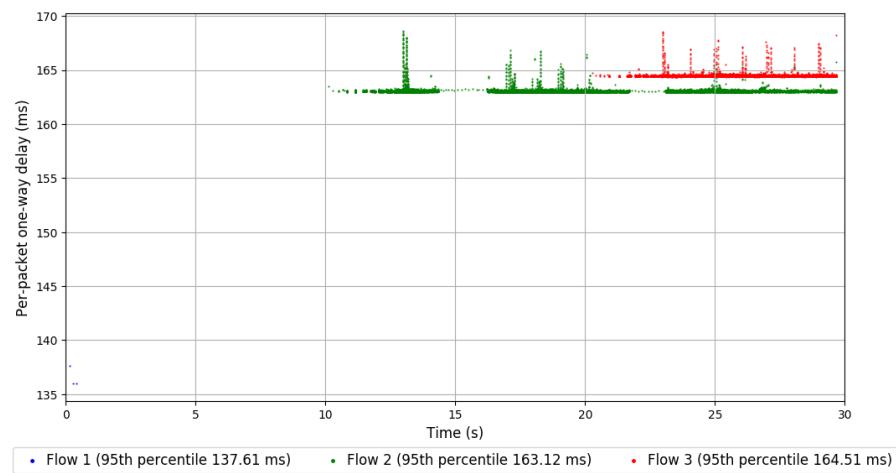
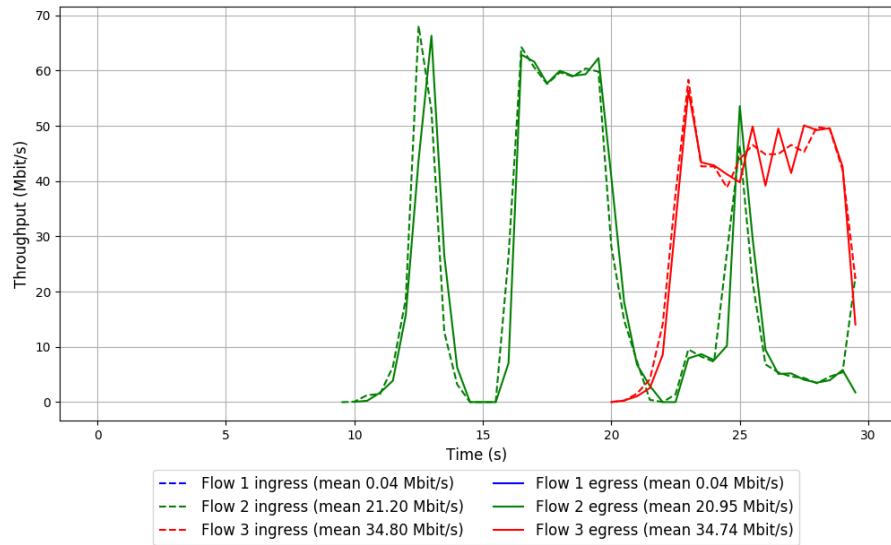
Run 4: Statistics of QUIC Cubic

Start at: 2017-09-08 11:46:26

End at: 2017-09-08 11:46:56

```
# Below is generated by plot.py at 2017-09-08 16:16:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 24.94 Mbit/s
95th percentile per-packet one-way delay: 164.482 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 137.611 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 20.95 Mbit/s
95th percentile per-packet one-way delay: 163.120 ms
Loss rate: 2.67%
-- Flow 3:
Average throughput: 34.74 Mbit/s
95th percentile per-packet one-way delay: 164.511 ms
Loss rate: 3.24%
```

Run 4: Report of QUIC Cubic — Data Link



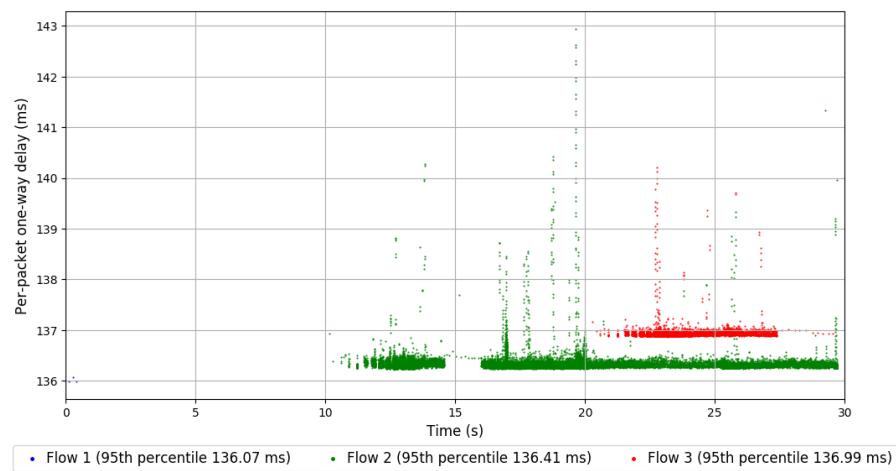
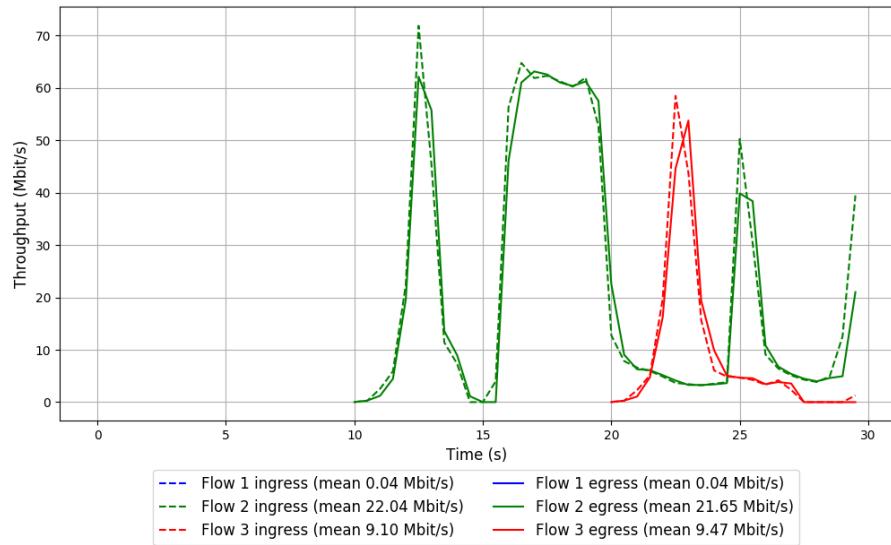
Run 5: Statistics of QUIC Cubic

Start at: 2017-09-08 11:59:56

End at: 2017-09-08 12:00:26

```
# Below is generated by plot.py at 2017-09-08 16:16:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 17.29 Mbit/s
95th percentile per-packet one-way delay: 136.921 ms
Loss rate: 2.73%
-- Flow 1:
Average throughput: 0.04 Mbit/s
95th percentile per-packet one-way delay: 136.075 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.65 Mbit/s
95th percentile per-packet one-way delay: 136.405 ms
Loss rate: 3.13%
-- Flow 3:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 136.988 ms
Loss rate: 0.73%
```

Run 5: Report of QUIC Cubic — Data Link



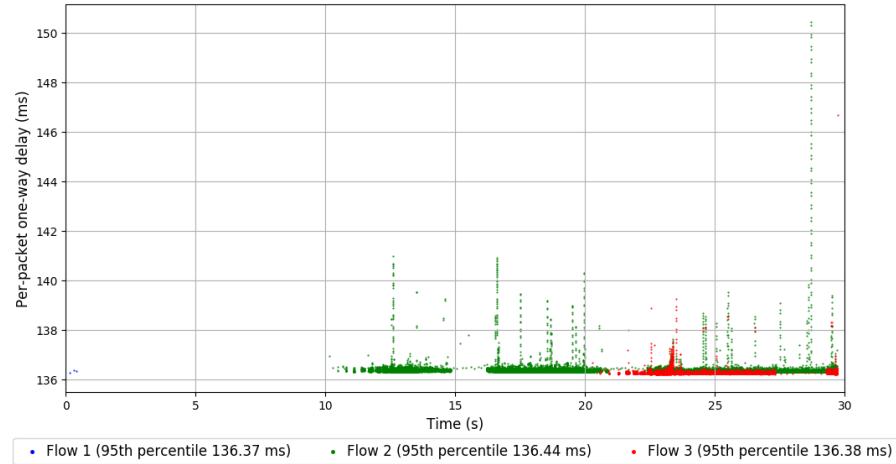
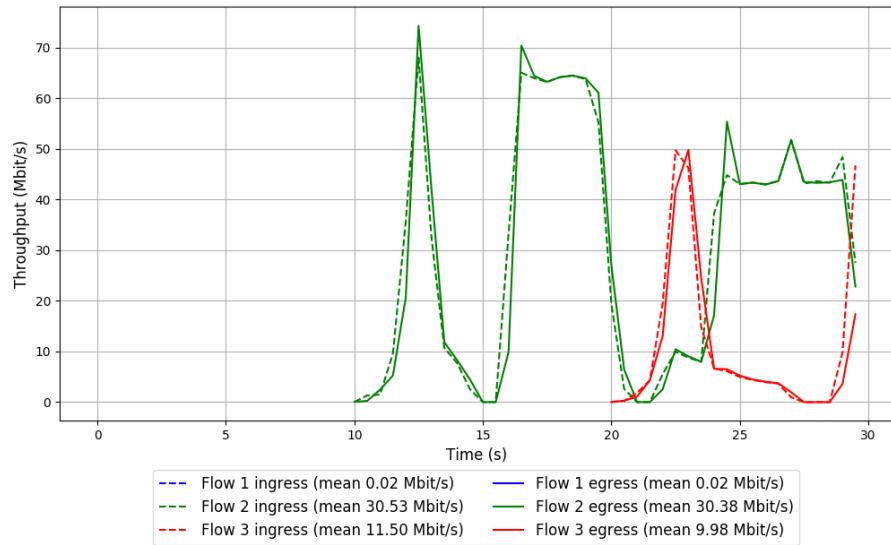
Run 6: Statistics of QUIC Cubic

Start at: 2017-09-08 12:13:07

End at: 2017-09-08 12:13:37

```
# Below is generated by plot.py at 2017-09-08 16:16:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.28 Mbit/s
95th percentile per-packet one-way delay: 136.434 ms
Loss rate: 3.95%
-- Flow 1:
Average throughput: 0.02 Mbit/s
95th percentile per-packet one-way delay: 136.369 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 30.38 Mbit/s
95th percentile per-packet one-way delay: 136.437 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 9.98 Mbit/s
95th percentile per-packet one-way delay: 136.378 ms
Loss rate: 15.90%
```

Run 6: Report of QUIC Cubic — Data Link



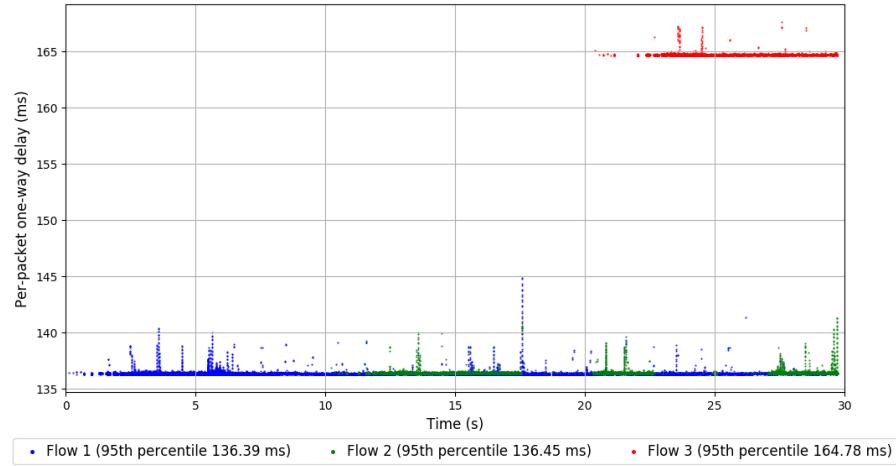
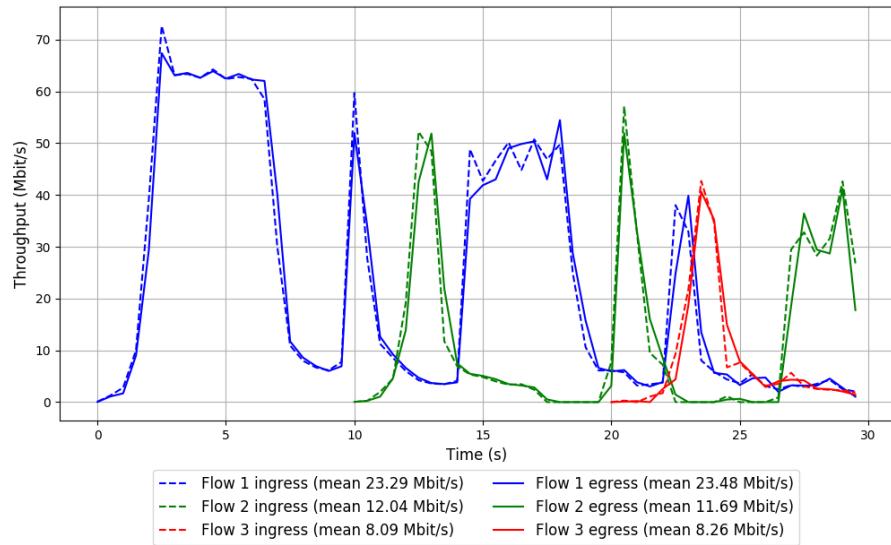
Run 7: Statistics of QUIC Cubic

Start at: 2017-09-08 12:26:26

End at: 2017-09-08 12:26:56

```
# Below is generated by plot.py at 2017-09-08 16:16:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 33.79 Mbit/s
95th percentile per-packet one-way delay: 164.680 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 23.48 Mbit/s
95th percentile per-packet one-way delay: 136.390 ms
Loss rate: 0.12%
-- Flow 2:
Average throughput: 11.69 Mbit/s
95th percentile per-packet one-way delay: 136.453 ms
Loss rate: 4.25%
-- Flow 3:
Average throughput: 8.26 Mbit/s
95th percentile per-packet one-way delay: 164.781 ms
Loss rate: 0.92%
```

Run 7: Report of QUIC Cubic — Data Link



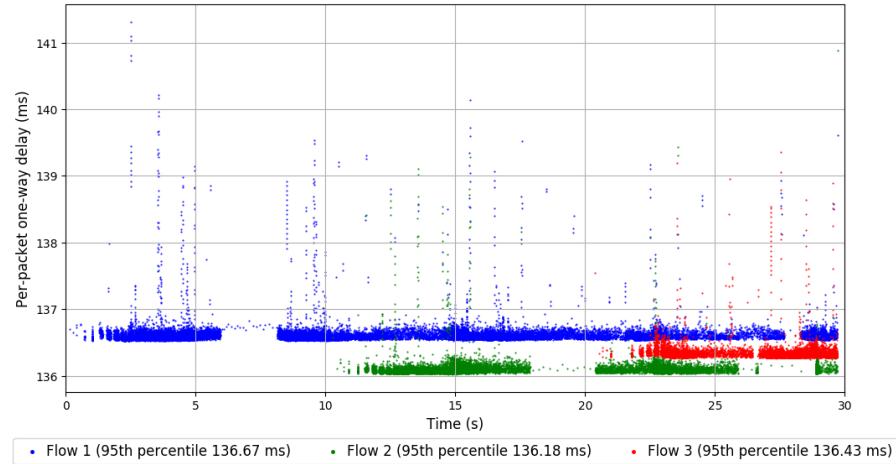
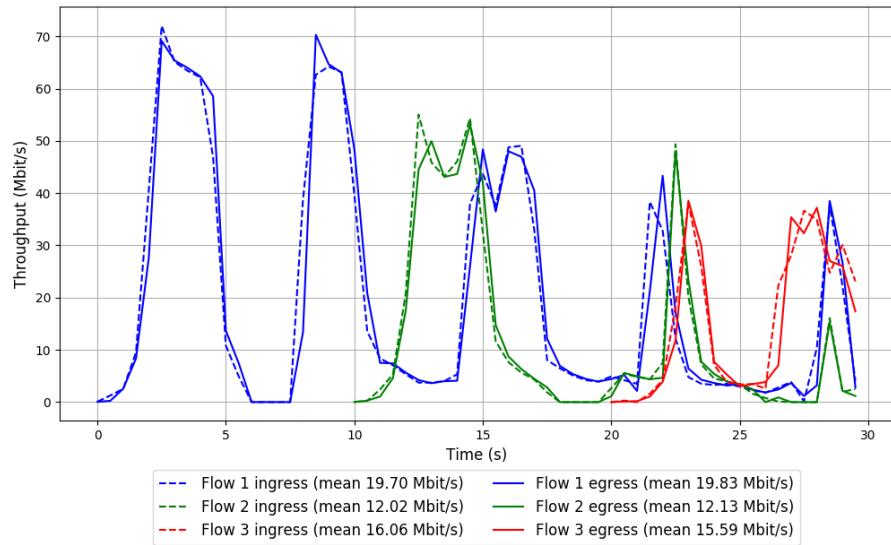
Run 8: Statistics of QUIC Cubic

Start at: 2017-09-08 12:39:46

End at: 2017-09-08 12:40:16

```
# Below is generated by plot.py at 2017-09-08 16:16:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.72 Mbit/s
95th percentile per-packet one-way delay: 136.653 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 19.83 Mbit/s
95th percentile per-packet one-way delay: 136.674 ms
Loss rate: 0.27%
-- Flow 2:
Average throughput: 12.13 Mbit/s
95th percentile per-packet one-way delay: 136.181 ms
Loss rate: 0.40%
-- Flow 3:
Average throughput: 15.59 Mbit/s
95th percentile per-packet one-way delay: 136.429 ms
Loss rate: 5.69%
```

Run 8: Report of QUIC Cubic — Data Link



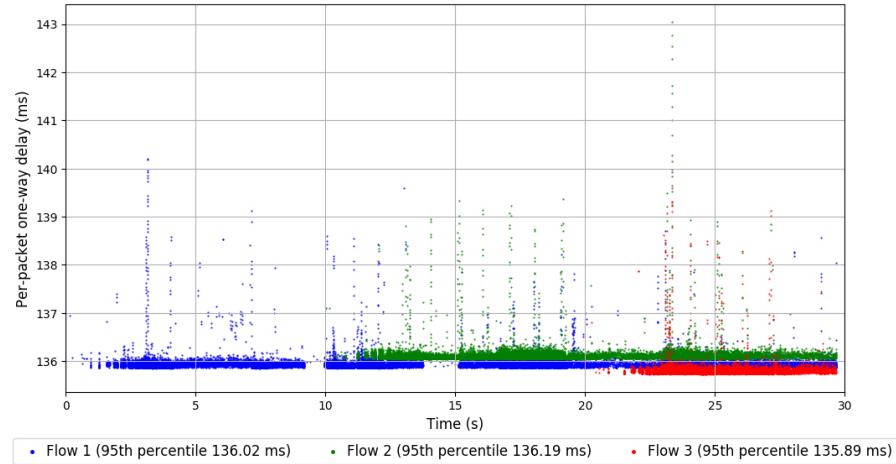
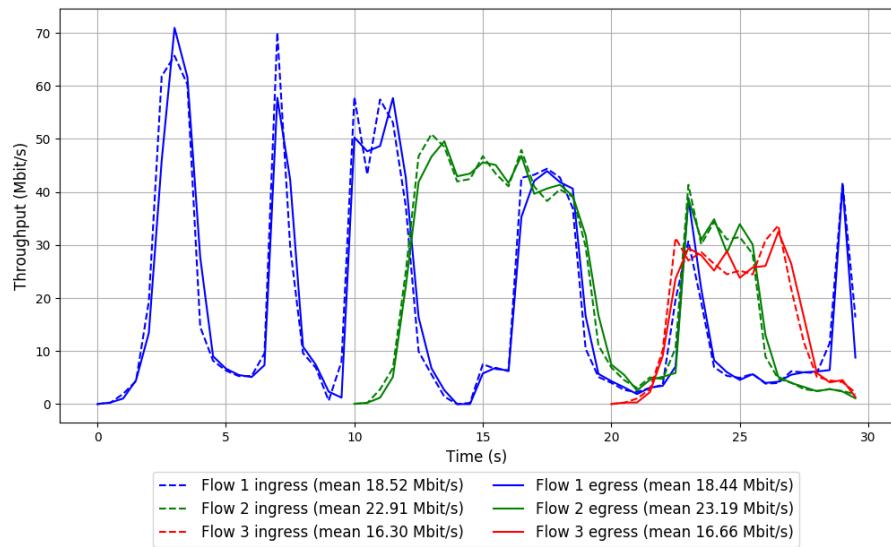
Run 9: Statistics of QUIC Cubic

Start at: 2017-09-08 12:53:08

End at: 2017-09-08 12:53:38

```
# Below is generated by plot.py at 2017-09-08 16:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 39.07 Mbit/s
95th percentile per-packet one-way delay: 136.146 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 18.44 Mbit/s
95th percentile per-packet one-way delay: 136.022 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 23.19 Mbit/s
95th percentile per-packet one-way delay: 136.188 ms
Loss rate: 0.17%
-- Flow 3:
Average throughput: 16.66 Mbit/s
95th percentile per-packet one-way delay: 135.886 ms
Loss rate: 0.64%
```

Run 9: Report of QUIC Cubic — Data Link



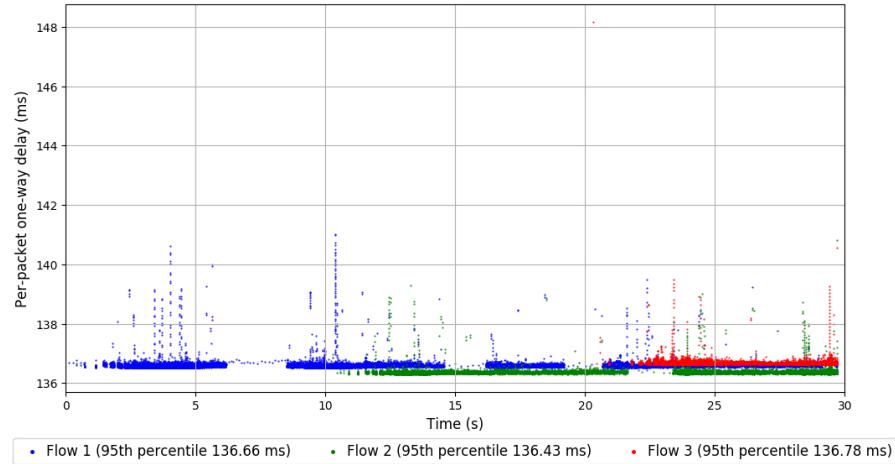
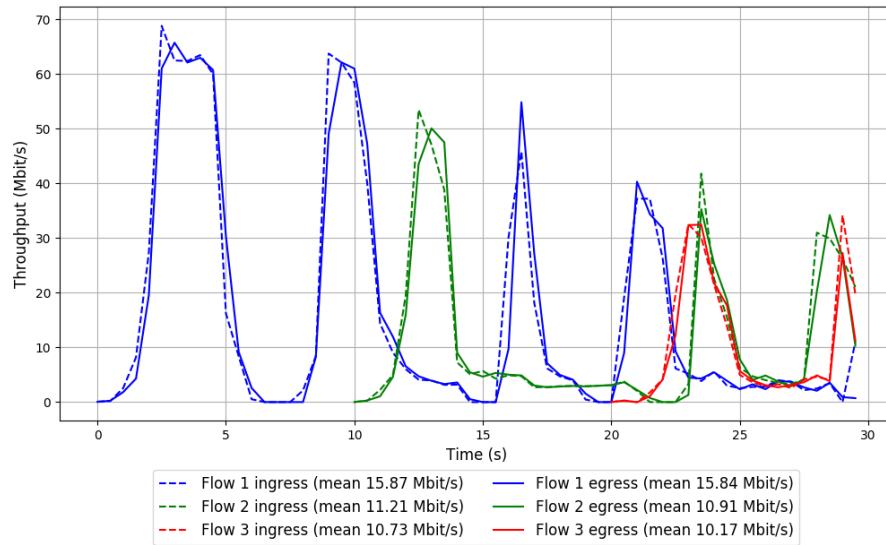
Run 10: Statistics of QUIC Cubic

Start at: 2017-09-08 13:06:29

End at: 2017-09-08 13:06:59

```
# Below is generated by plot.py at 2017-09-08 16:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 26.25 Mbit/s
95th percentile per-packet one-way delay: 136.686 ms
Loss rate: 2.80%
-- Flow 1:
Average throughput: 15.84 Mbit/s
95th percentile per-packet one-way delay: 136.658 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 10.91 Mbit/s
95th percentile per-packet one-way delay: 136.431 ms
Loss rate: 4.03%
-- Flow 3:
Average throughput: 10.17 Mbit/s
95th percentile per-packet one-way delay: 136.780 ms
Loss rate: 7.95%
```

Run 10: Report of QUIC Cubic — Data Link

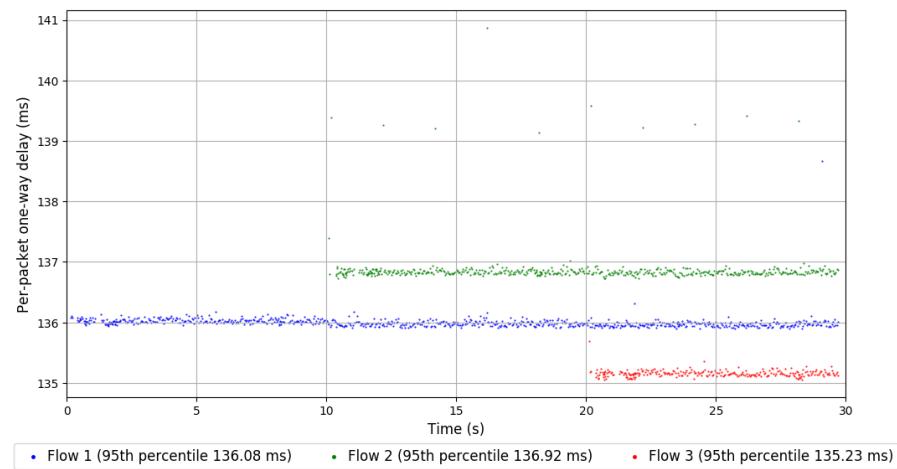
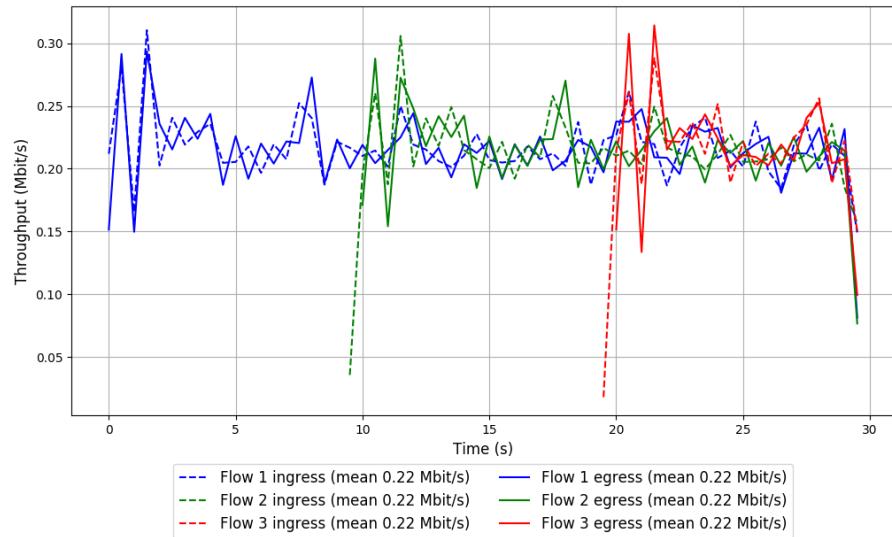


```
Run 1: Statistics of SCReAM

Start at: 2017-09-08 11:09:57
End at: 2017-09-08 11:10:27

# Below is generated by plot.py at 2017-09-08 16:16:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.881 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.083 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.919 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.232 ms
Loss rate: 2.63%
```

Run 1: Report of SCReAM — Data Link



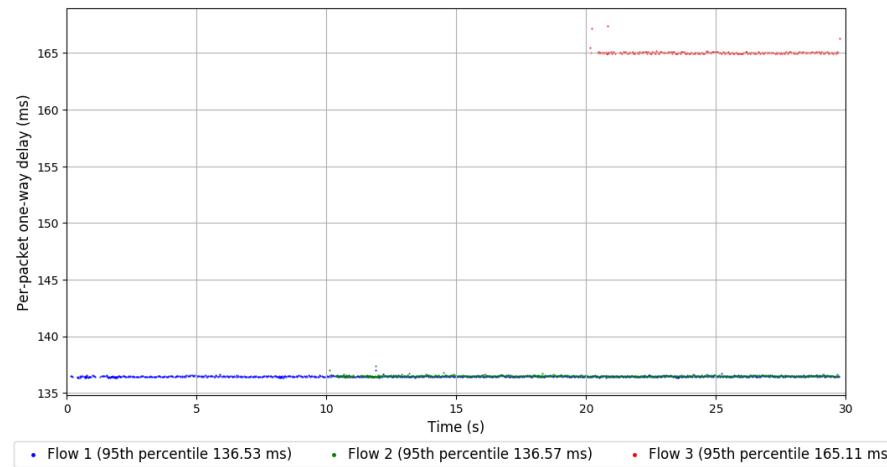
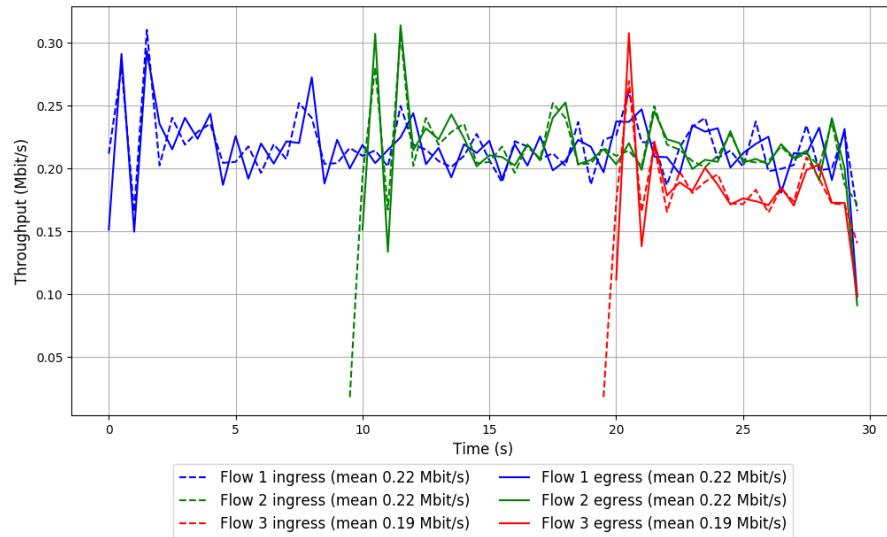
Run 2: Statistics of SCReAM

Start at: 2017-09-08 11:23:57

End at: 2017-09-08 11:24:27

```
# Below is generated by plot.py at 2017-09-08 16:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 165.054 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.530 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.571 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 165.107 ms
Loss rate: 2.63%
```

Run 2: Report of SCReAM — Data Link



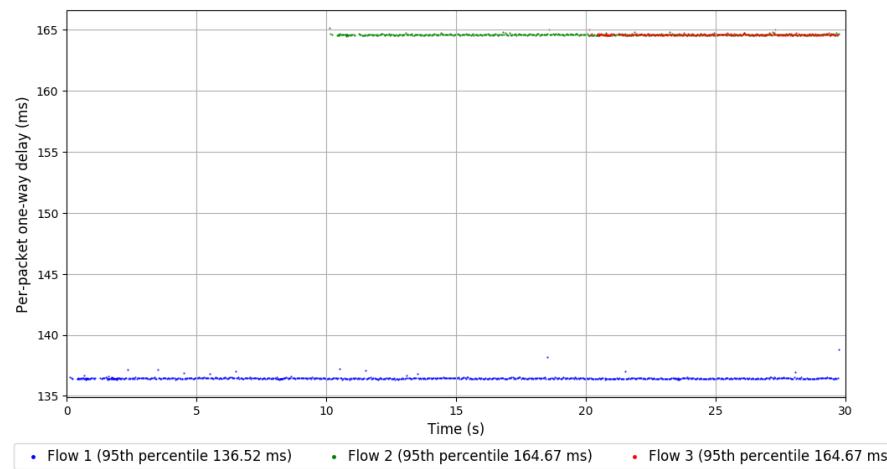
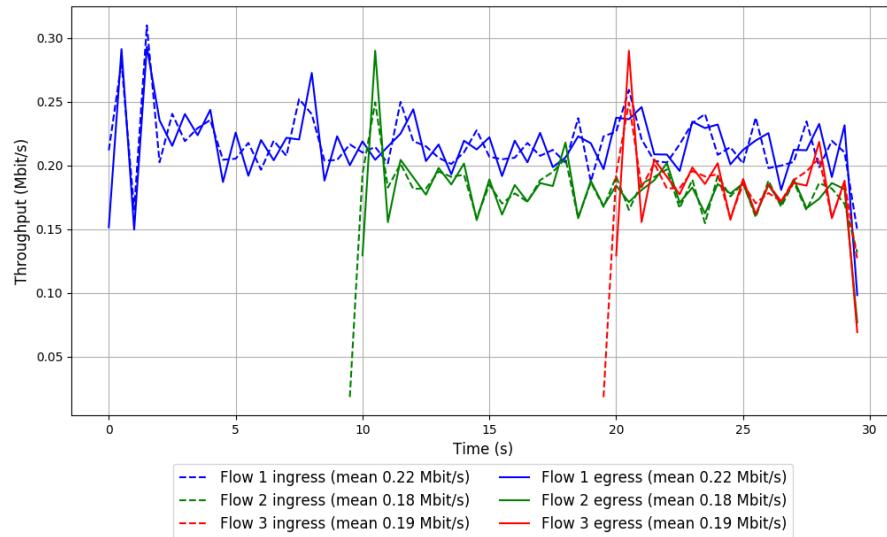
Run 3: Statistics of SCReAM

Start at: 2017-09-08 11:37:47

End at: 2017-09-08 11:38:17

```
# Below is generated by plot.py at 2017-09-08 16:16:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 164.647 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.522 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 164.669 ms
Loss rate: 1.43%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.674 ms
Loss rate: 3.02%
```

Run 3: Report of SCReAM — Data Link



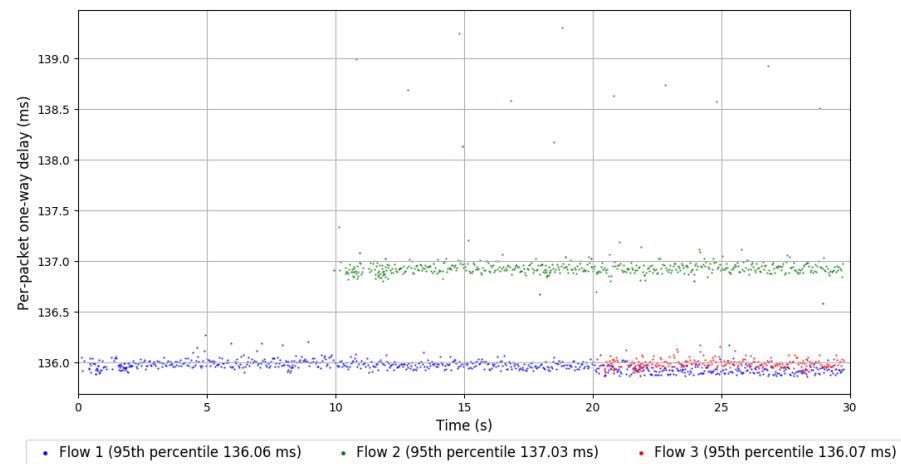
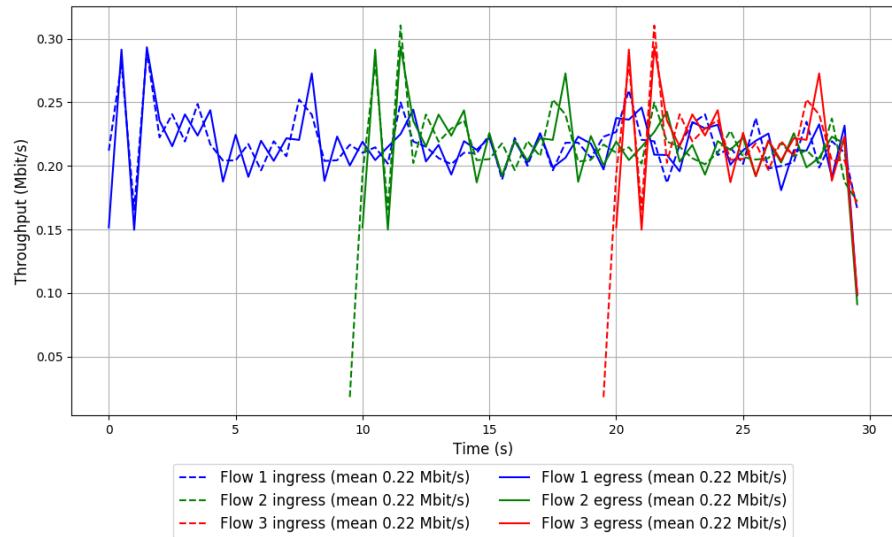
Run 4: Statistics of SCReAM

Start at: 2017-09-08 11:51:46

End at: 2017-09-08 11:52:16

```
# Below is generated by plot.py at 2017-09-08 16:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.983 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.056 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.028 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.075 ms
Loss rate: 2.63%
```

Run 4: Report of SCReAM — Data Link



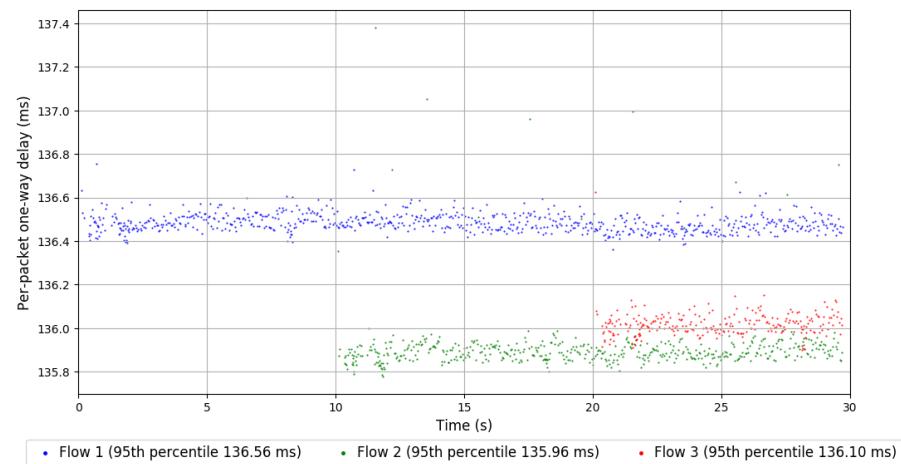
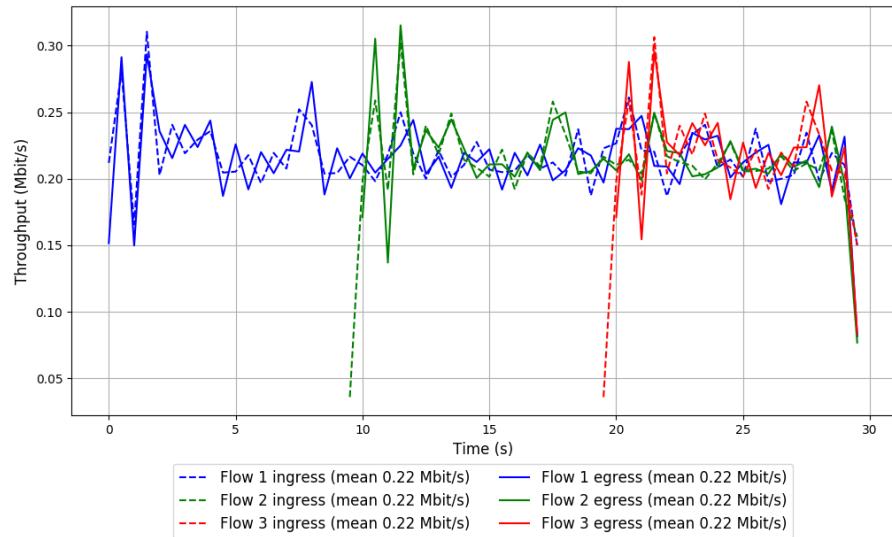
Run 5: Statistics of SCReAM

Start at: 2017-09-08 12:05:07

End at: 2017-09-08 12:05:37

```
# Below is generated by plot.py at 2017-09-08 16:16:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 136.537 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.558 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 135.963 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.097 ms
Loss rate: 2.63%
```

Run 5: Report of SCReAM — Data Link



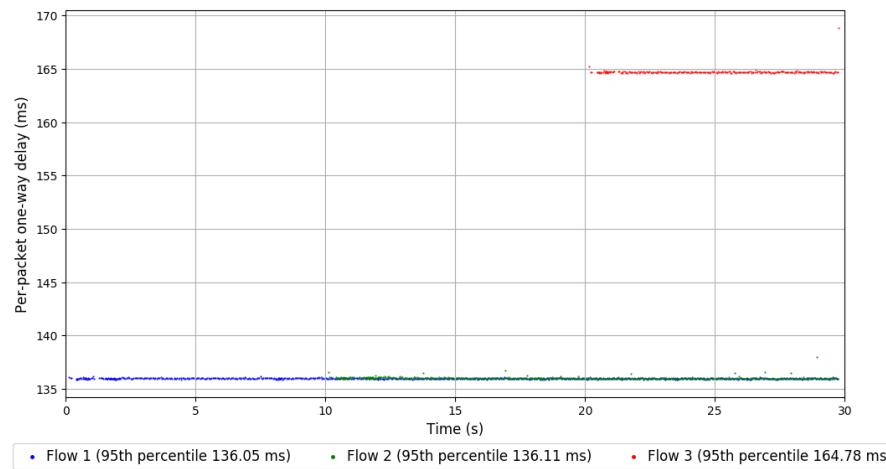
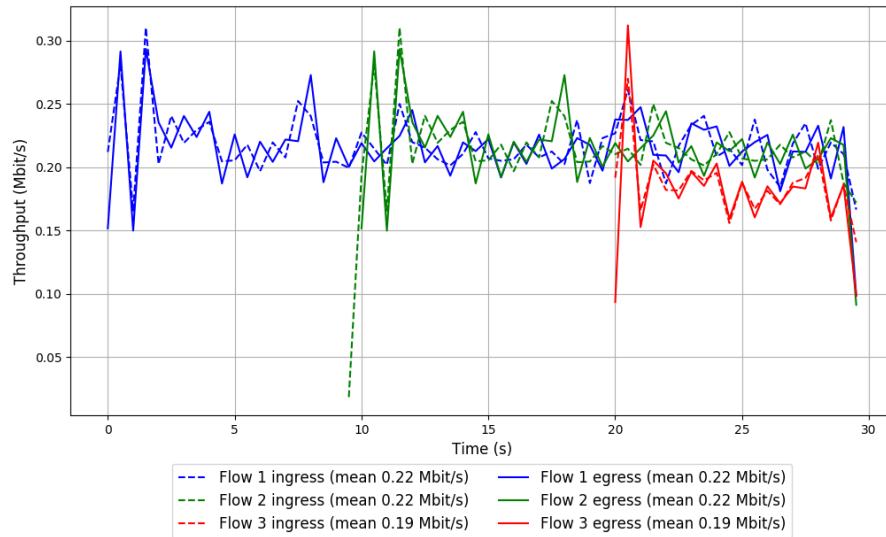
Run 6: Statistics of SCReAM

Start at: 2017-09-08 12:18:17

End at: 2017-09-08 12:18:47

```
# Below is generated by plot.py at 2017-09-08 16:16:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.42 Mbit/s
95th percentile per-packet one-way delay: 164.720 ms
Loss rate: 1.33%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.051 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.108 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 164.775 ms
Loss rate: 2.63%
```

Run 6: Report of SCReAM — Data Link



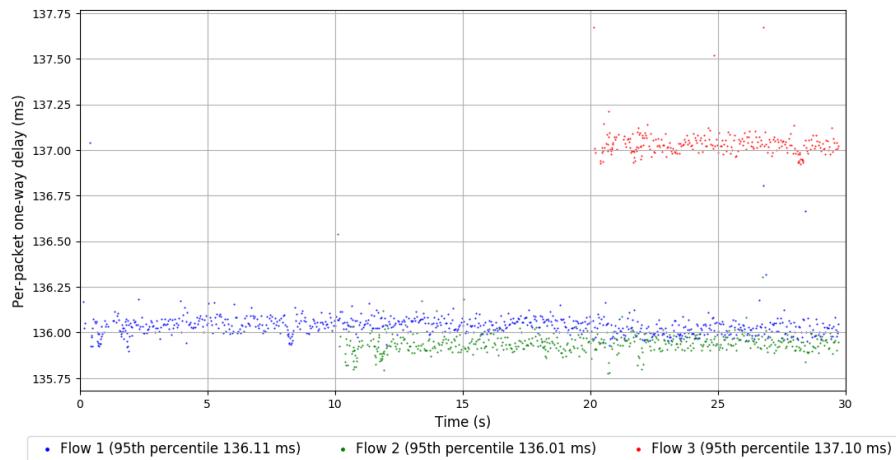
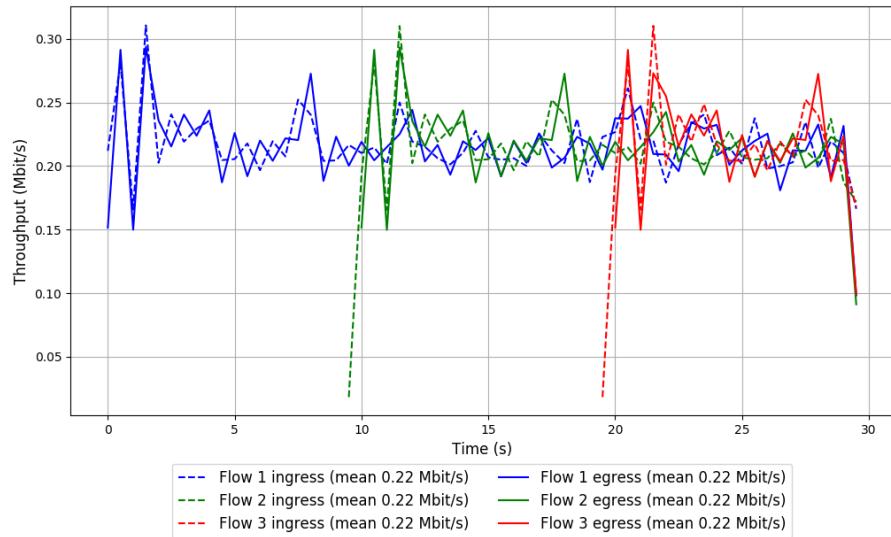
Run 7: Statistics of SCReAM

Start at: 2017-09-08 12:31:35

End at: 2017-09-08 12:32:05

```
# Below is generated by plot.py at 2017-09-08 16:16:52
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.053 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.106 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.006 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.098 ms
Loss rate: 2.64%
```

Run 7: Report of SCReAM — Data Link



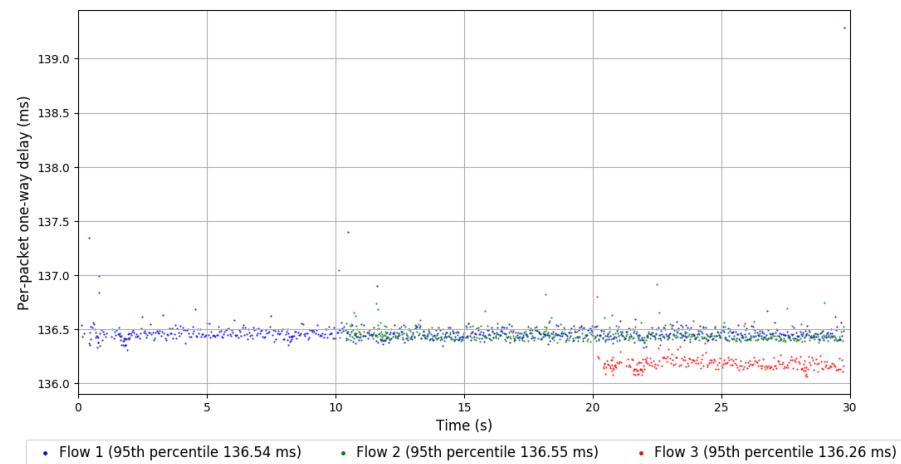
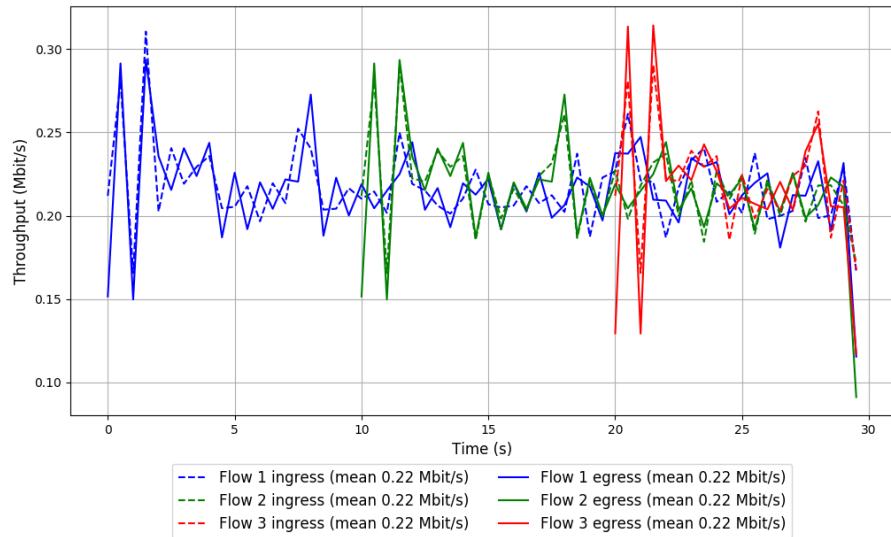
Run 8: Statistics of SCReAM

Start at: 2017-09-08 12:44:56

End at: 2017-09-08 12:45:26

```
# Below is generated by plot.py at 2017-09-08 16:16:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.535 ms
Loss rate: 1.30%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.539 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.547 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.259 ms
Loss rate: 2.63%
```

Run 8: Report of SCReAM — Data Link



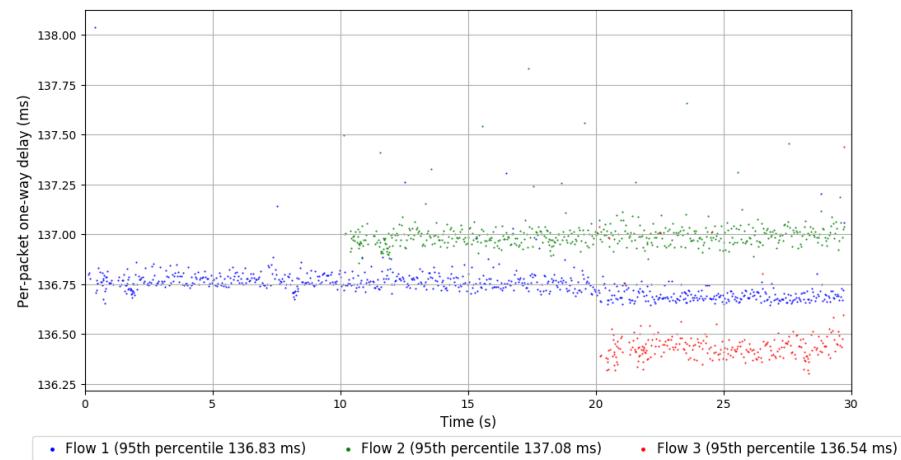
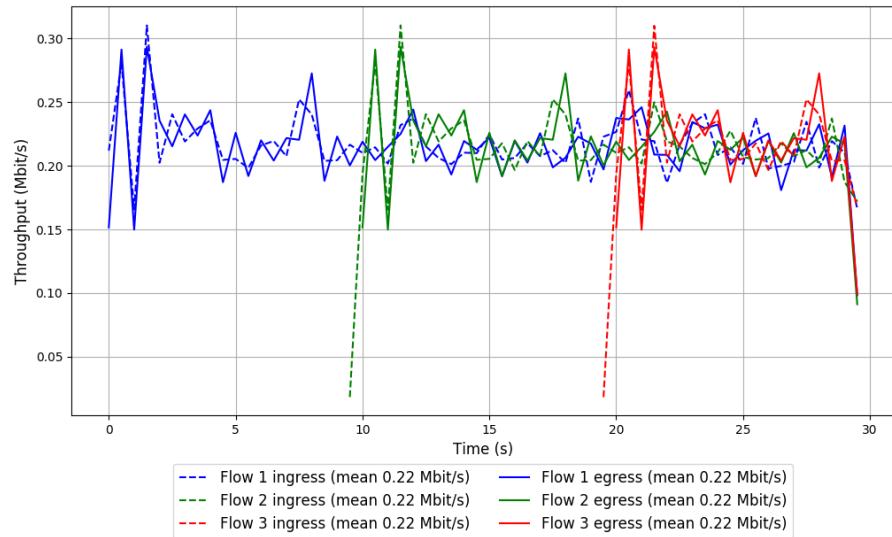
Run 9: Statistics of SCReAM

Start at: 2017-09-08 12:58:22

End at: 2017-09-08 12:58:52

```
# Below is generated by plot.py at 2017-09-08 16:16:54
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 137.038 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.832 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.077 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.541 ms
Loss rate: 2.63%
```

Run 9: Report of SCReAM — Data Link



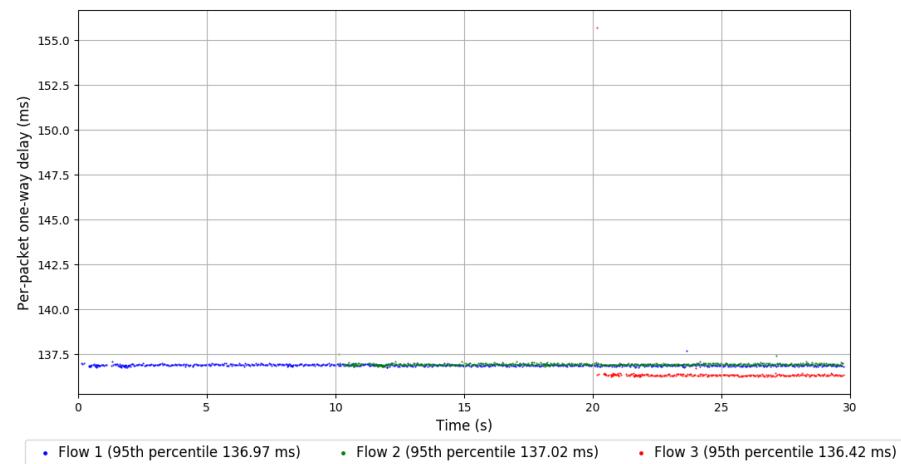
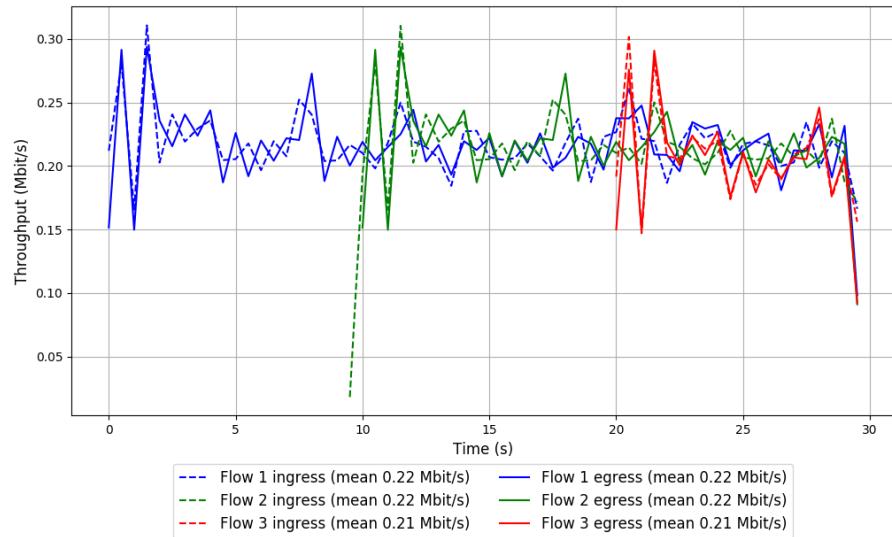
Run 10: Statistics of SCReAM

Start at: 2017-09-08 13:11:37

End at: 2017-09-08 13:12:07

```
# Below is generated by plot.py at 2017-09-08 16:16:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 136.991 ms
Loss rate: 1.35%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 136.968 ms
Loss rate: 0.90%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.017 ms
Loss rate: 1.42%
-- Flow 3:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 136.420 ms
Loss rate: 2.61%
```

Run 10: Report of SCReAM — Data Link



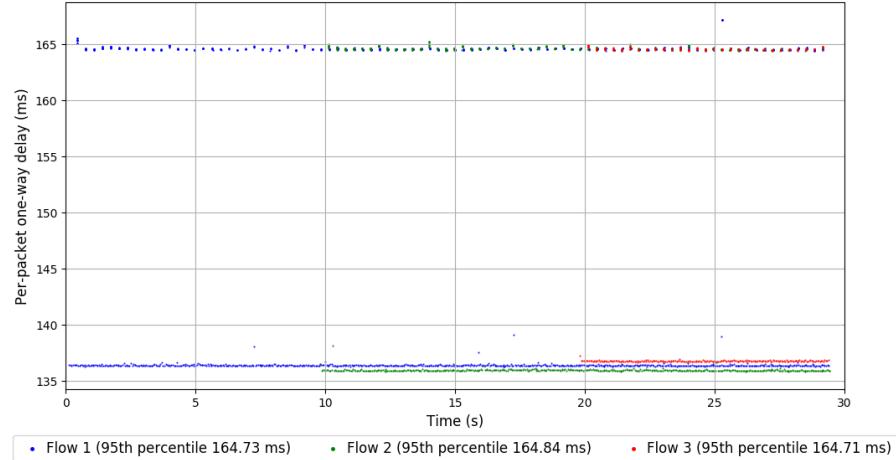
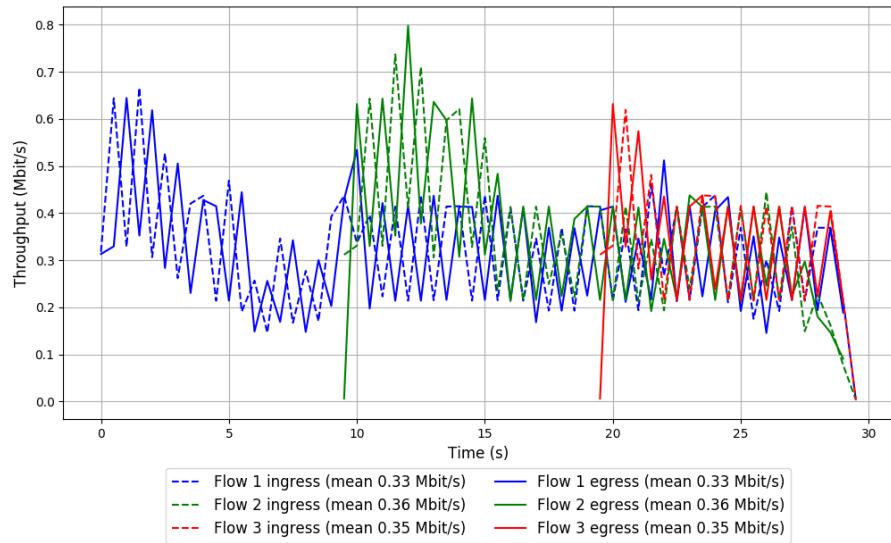
Run 1: Statistics of Sprout

Start at: 2017-09-08 11:06:17

End at: 2017-09-08 11:06:47

```
# Below is generated by plot.py at 2017-09-08 16:16:55
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.68 Mbit/s
95th percentile per-packet one-way delay: 164.766 ms
Loss rate: 1.17%
-- Flow 1:
Average throughput: 0.33 Mbit/s
95th percentile per-packet one-way delay: 164.726 ms
Loss rate: 1.08%
-- Flow 2:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 164.839 ms
Loss rate: 0.39%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 164.711 ms
Loss rate: 3.04%
```

Run 1: Report of Sprout — Data Link



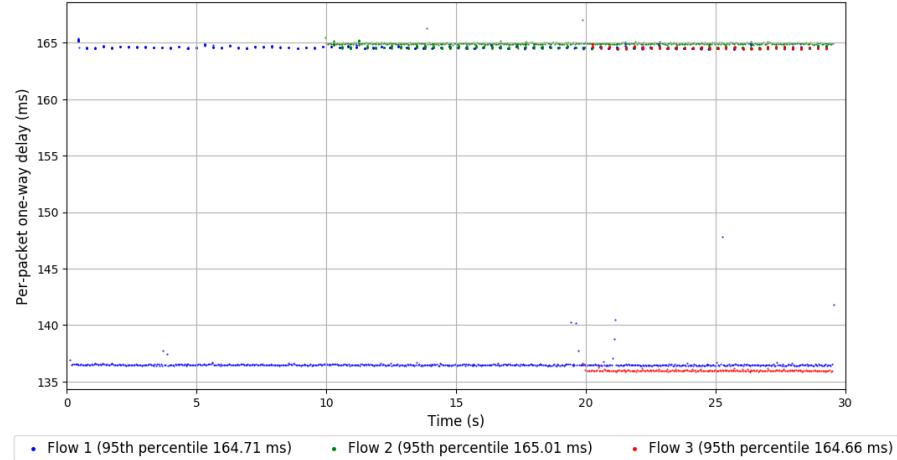
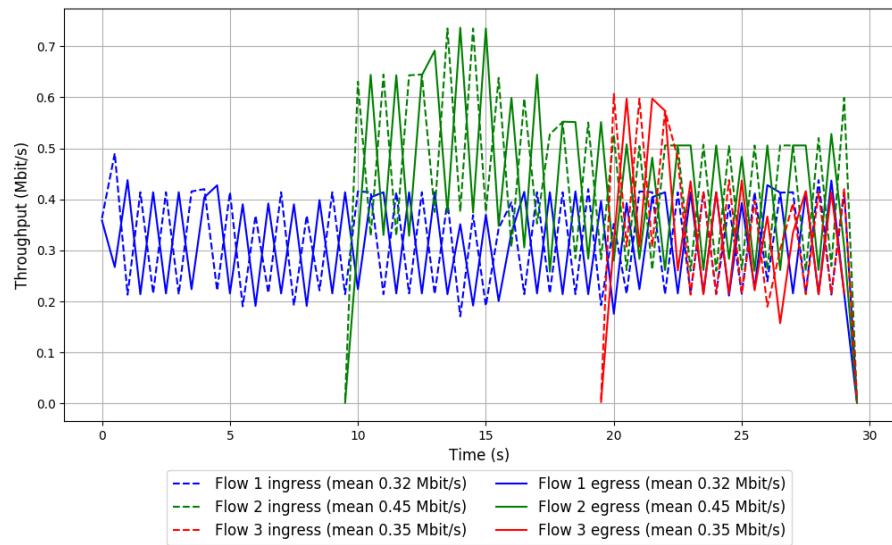
Run 2: Statistics of Sprout

Start at: 2017-09-08 11:20:11

End at: 2017-09-08 11:20:41

```
# Below is generated by plot.py at 2017-09-08 16:16:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.73 Mbit/s
95th percentile per-packet one-way delay: 164.956 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.713 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 0.45 Mbit/s
95th percentile per-packet one-way delay: 165.009 ms
Loss rate: 1.70%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 164.655 ms
Loss rate: 3.09%
```

Run 2: Report of Sprout — Data Link



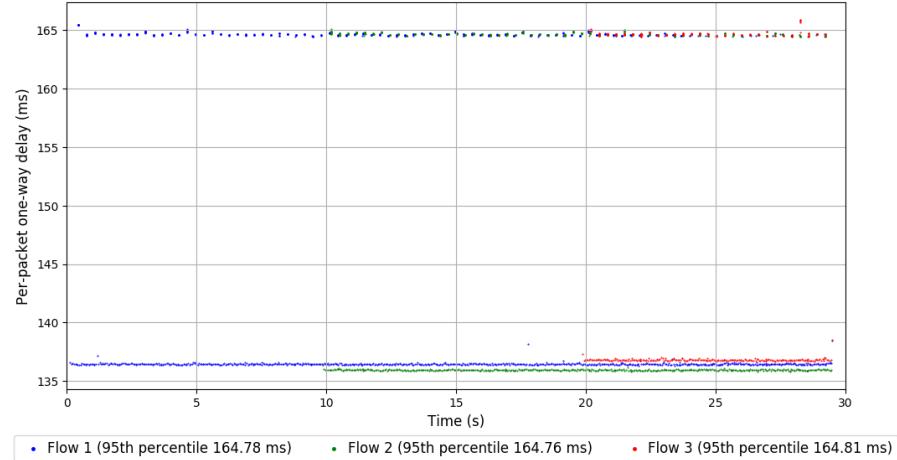
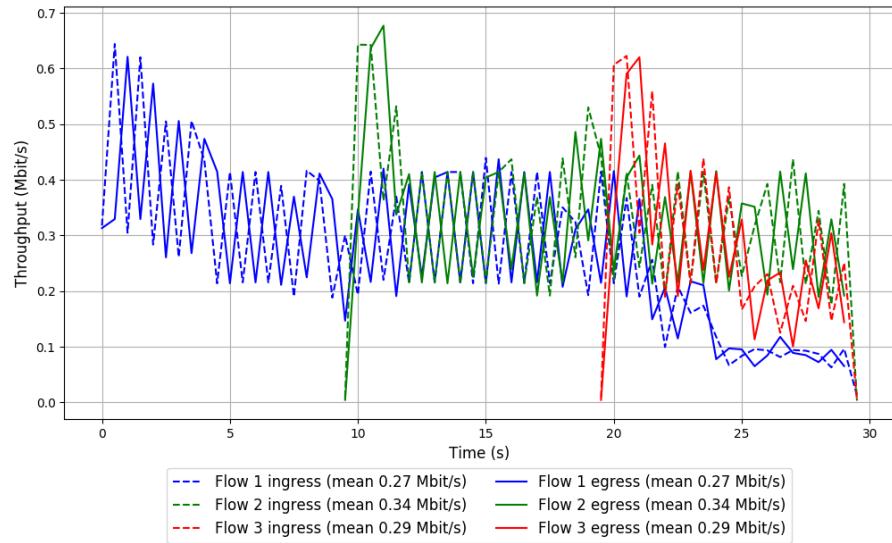
Run 3: Statistics of Sprout

Start at: 2017-09-08 11:34:09

End at: 2017-09-08 11:34:39

```
# Below is generated by plot.py at 2017-09-08 16:16:58
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.60 Mbit/s
95th percentile per-packet one-way delay: 164.777 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 0.27 Mbit/s
95th percentile per-packet one-way delay: 164.782 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 164.765 ms
Loss rate: 1.56%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 164.810 ms
Loss rate: 2.02%
```

Run 3: Report of Sprout — Data Link



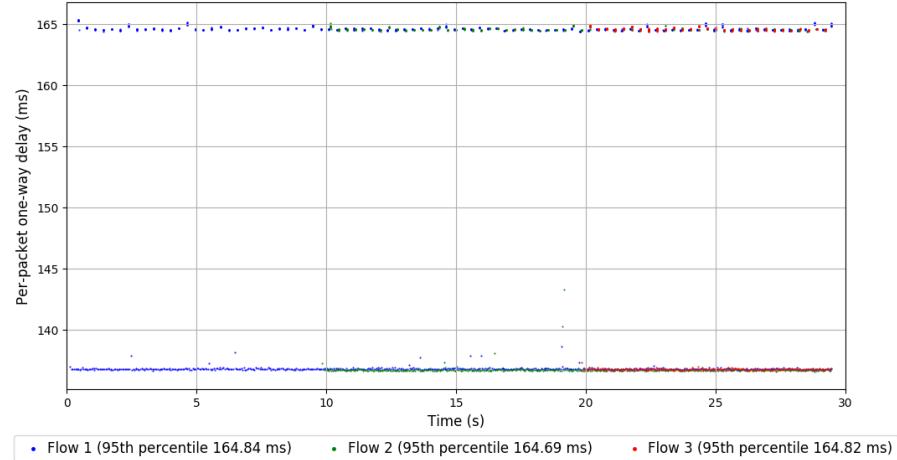
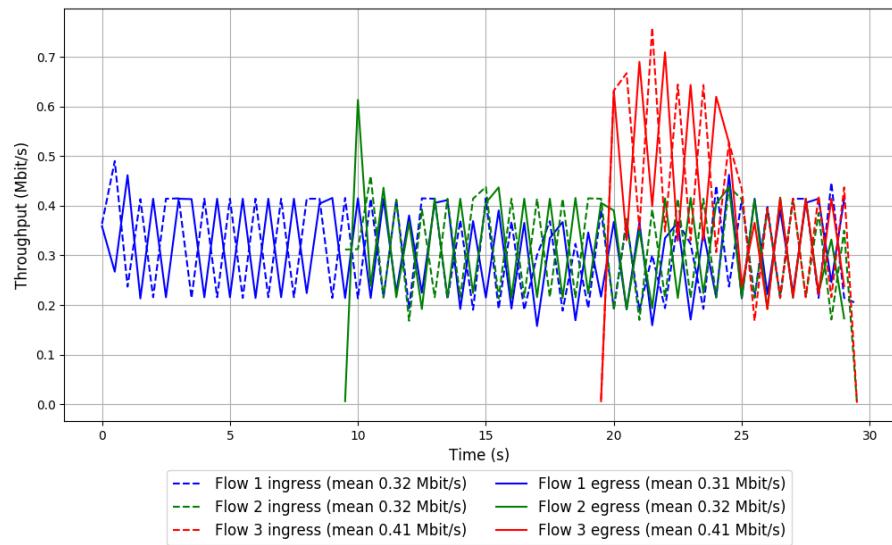
Run 4: Statistics of Sprout

Start at: 2017-09-08 11:48:12

End at: 2017-09-08 11:48:42

```
# Below is generated by plot.py at 2017-09-08 16:17:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 164.793 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 164.836 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.693 ms
Loss rate: 1.45%
-- Flow 3:
Average throughput: 0.41 Mbit/s
95th percentile per-packet one-way delay: 164.817 ms
Loss rate: 2.54%
```

Run 4: Report of Sprout — Data Link



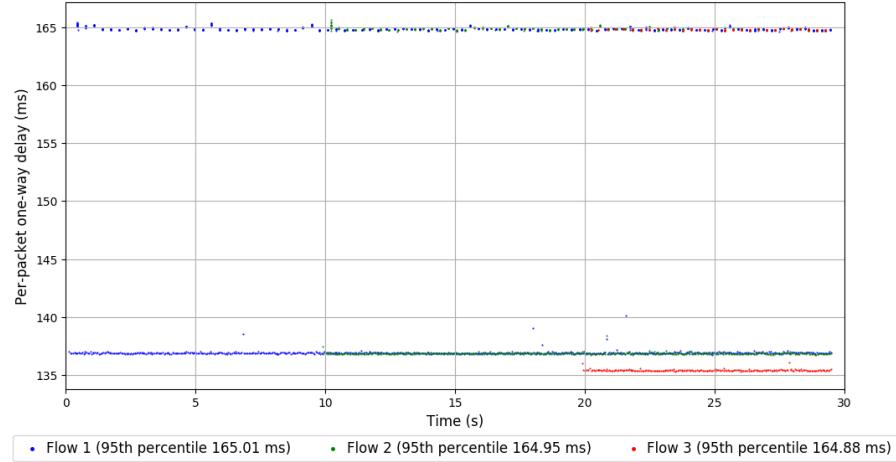
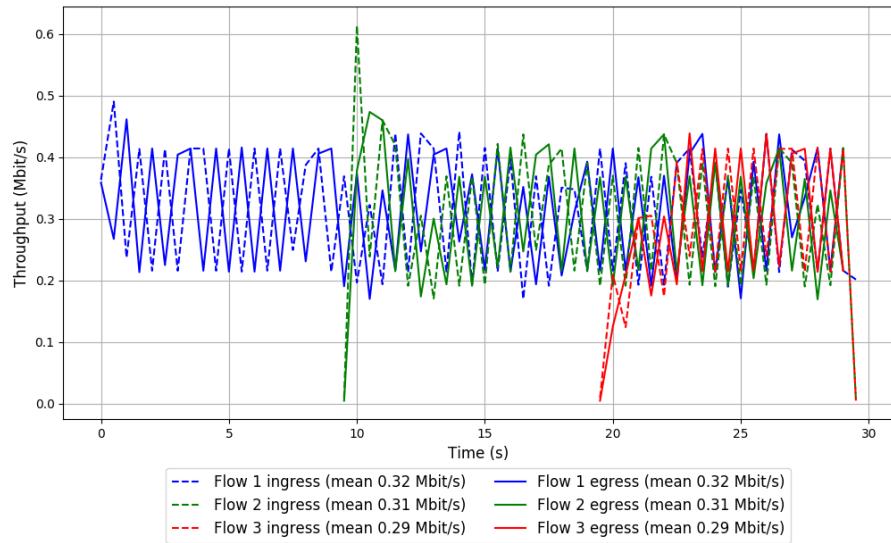
Run 5: Statistics of Sprout

Start at: 2017-09-08 12:01:37

End at: 2017-09-08 12:02:07

```
# Below is generated by plot.py at 2017-09-08 16:17:00
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.62 Mbit/s
95th percentile per-packet one-way delay: 164.954 ms
Loss rate: 1.68%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 165.013 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 164.947 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 0.29 Mbit/s
95th percentile per-packet one-way delay: 164.885 ms
Loss rate: 3.61%
```

Run 5: Report of Sprout — Data Link



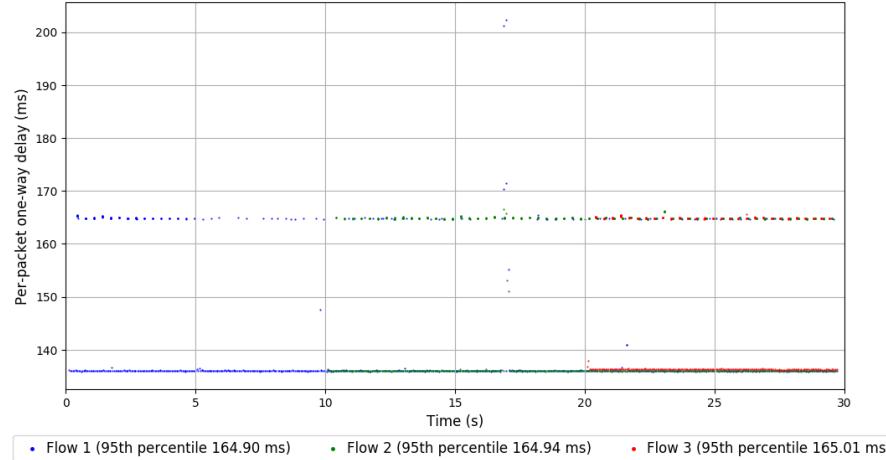
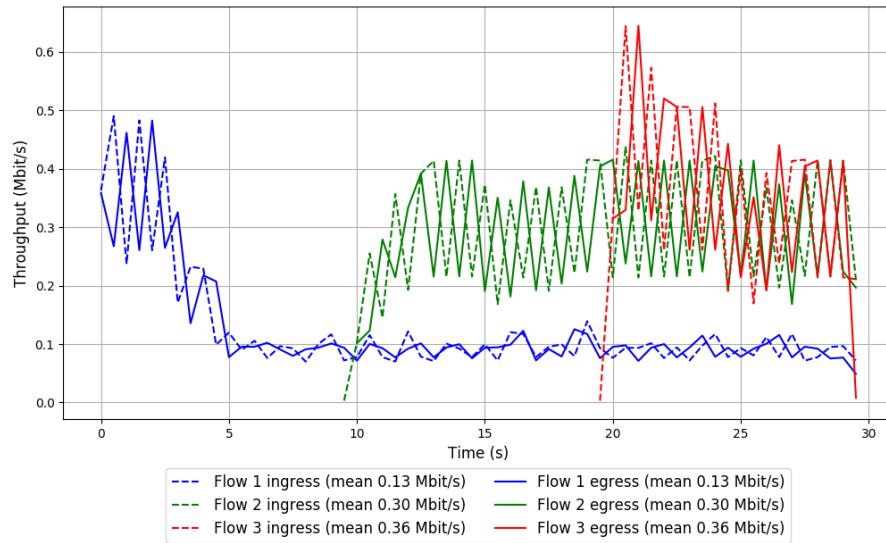
Run 6: Statistics of Sprout

Start at: 2017-09-08 12:14:48

End at: 2017-09-08 12:15:18

```
# Below is generated by plot.py at 2017-09-08 16:17:01
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 164.977 ms
Loss rate: 1.81%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 164.900 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 0.30 Mbit/s
95th percentile per-packet one-way delay: 164.937 ms
Loss rate: 1.74%
-- Flow 3:
Average throughput: 0.36 Mbit/s
95th percentile per-packet one-way delay: 165.010 ms
Loss rate: 2.89%
```

Run 6: Report of Sprout — Data Link



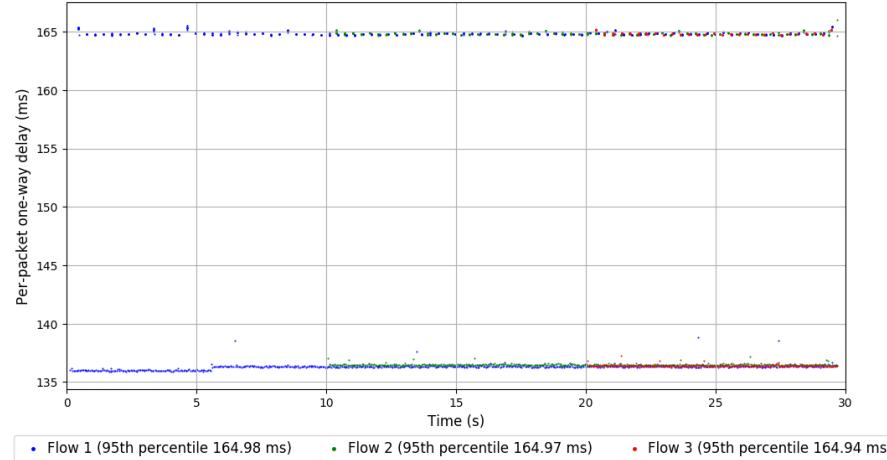
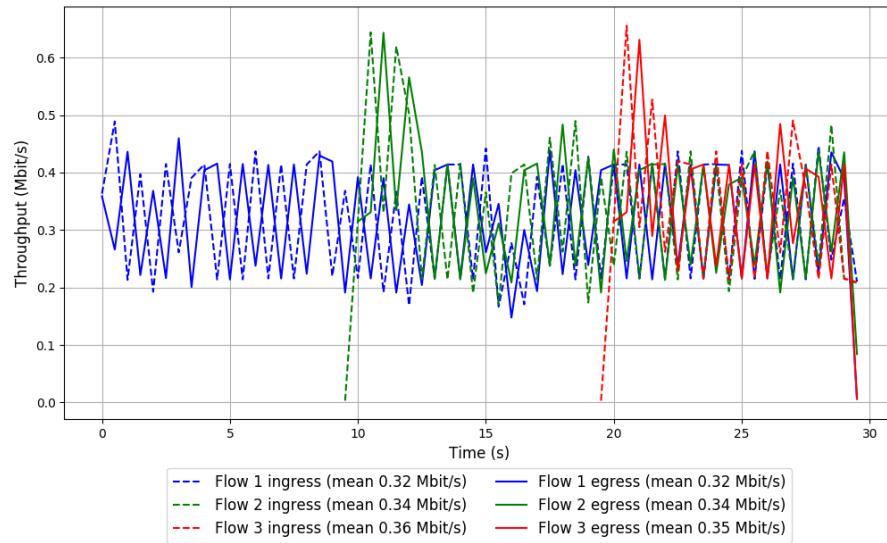
Run 7: Statistics of Sprout

Start at: 2017-09-08 12:28:08

End at: 2017-09-08 12:28:38

```
# Below is generated by plot.py at 2017-09-08 16:17:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.66 Mbit/s
95th percentile per-packet one-way delay: 164.974 ms
Loss rate: 1.37%
-- Flow 1:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.978 ms
Loss rate: 1.09%
-- Flow 2:
Average throughput: 0.34 Mbit/s
95th percentile per-packet one-way delay: 164.972 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 164.937 ms
Loss rate: 2.96%
```

Run 7: Report of Sprout — Data Link



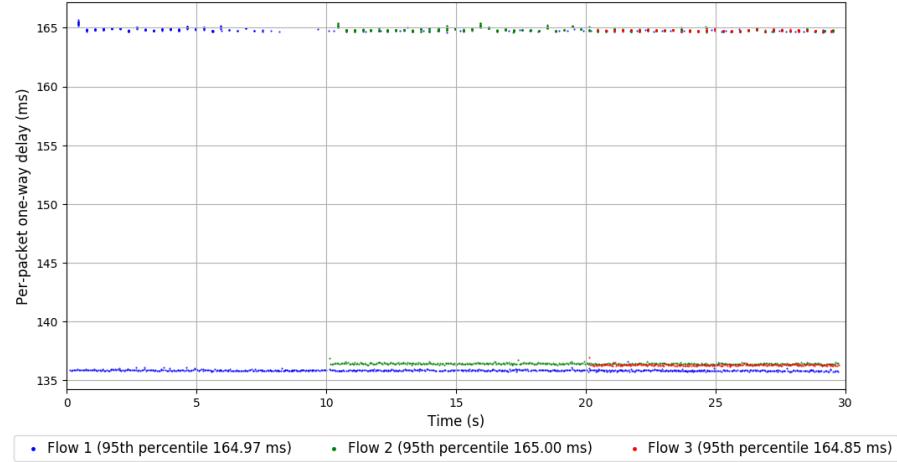
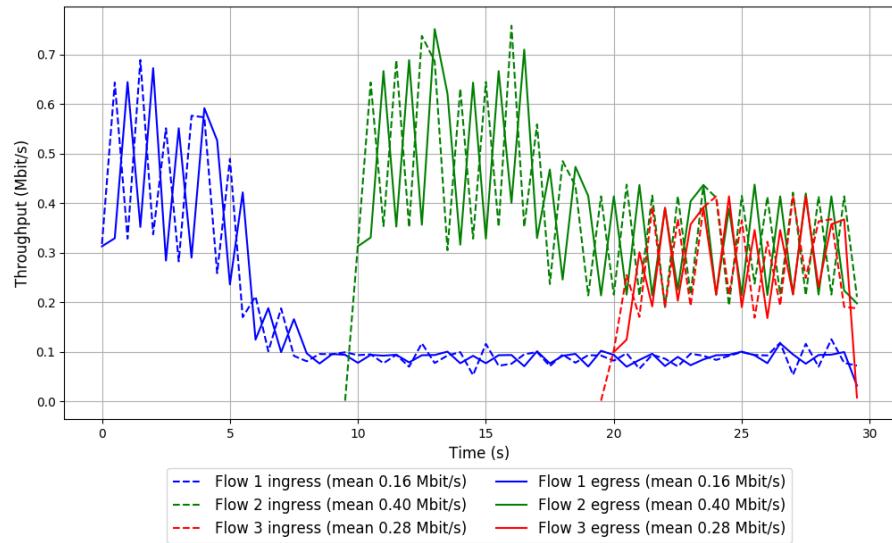
Run 8: Statistics of Sprout

Start at: 2017-09-08 12:41:29

End at: 2017-09-08 12:41:59

```
# Below is generated by plot.py at 2017-09-08 16:17:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.52 Mbit/s
95th percentile per-packet one-way delay: 164.963 ms
Loss rate: 1.49%
-- Flow 1:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 164.970 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 0.40 Mbit/s
95th percentile per-packet one-way delay: 165.003 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 0.28 Mbit/s
95th percentile per-packet one-way delay: 164.849 ms
Loss rate: 3.35%
```

Run 8: Report of Sprout — Data Link



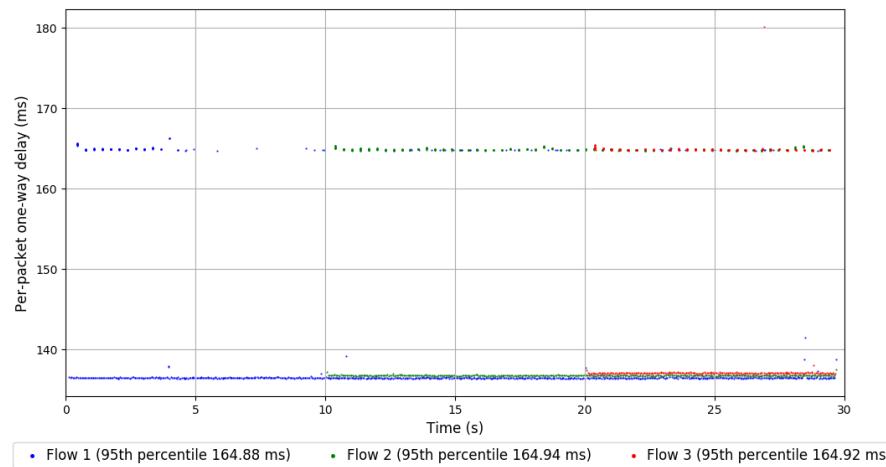
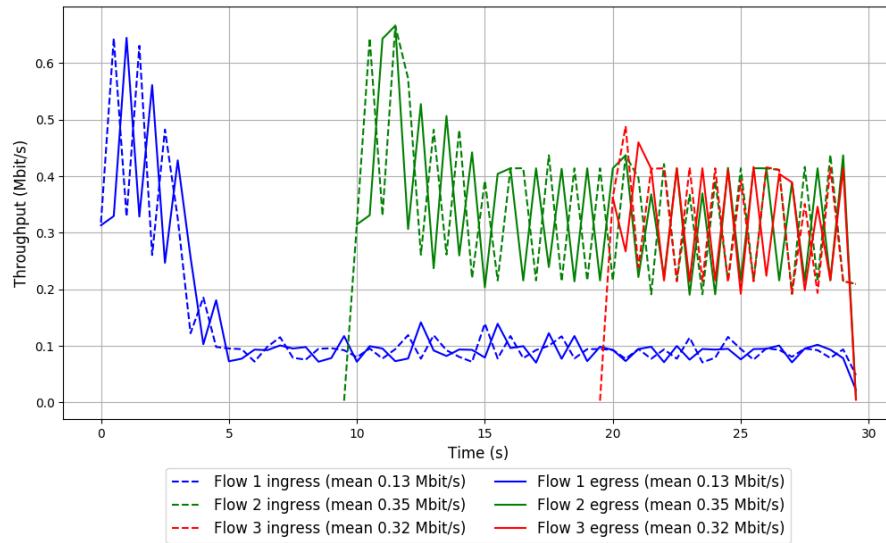
Run 9: Statistics of Sprout

Start at: 2017-09-08 12:54:51

End at: 2017-09-08 12:55:21

```
# Below is generated by plot.py at 2017-09-08 16:17:04
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.47 Mbit/s
95th percentile per-packet one-way delay: 164.931 ms
Loss rate: 1.64%
-- Flow 1:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 164.885 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 0.35 Mbit/s
95th percentile per-packet one-way delay: 164.945 ms
Loss rate: 1.51%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.924 ms
Loss rate: 3.25%
```

Run 9: Report of Sprout — Data Link



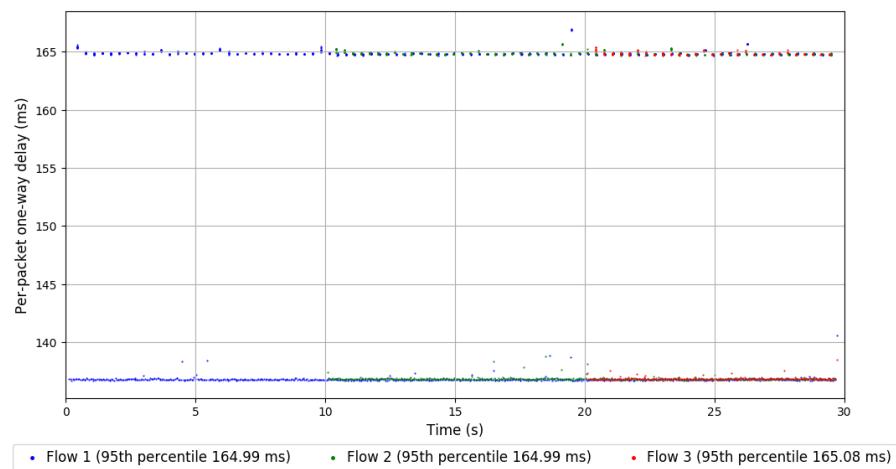
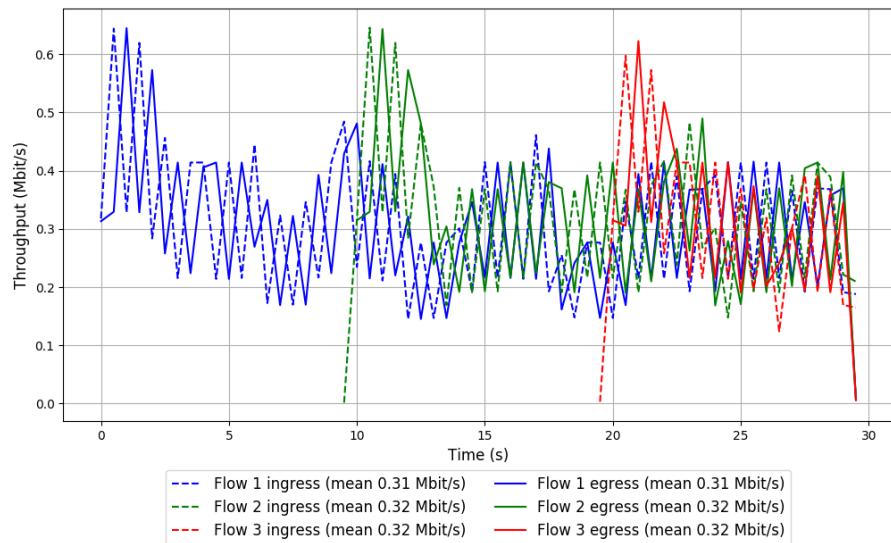
Run 10: Statistics of Sprout

Start at: 2017-09-08 13:08:11

End at: 2017-09-08 13:08:41

```
# Below is generated by plot.py at 2017-09-08 16:17:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.63 Mbit/s
95th percentile per-packet one-way delay: 165.018 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 0.31 Mbit/s
95th percentile per-packet one-way delay: 164.989 ms
Loss rate: 1.00%
-- Flow 2:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 164.986 ms
Loss rate: 1.61%
-- Flow 3:
Average throughput: 0.32 Mbit/s
95th percentile per-packet one-way delay: 165.080 ms
Loss rate: 2.55%
```

Run 10: Report of Sprout — Data Link



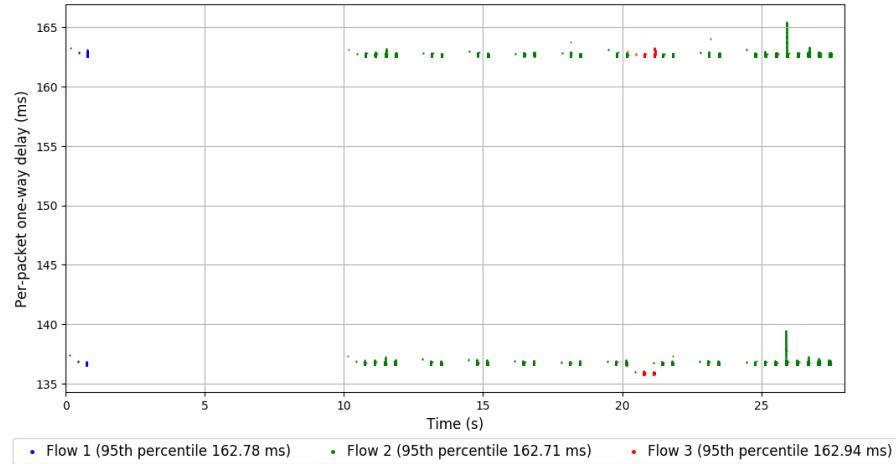
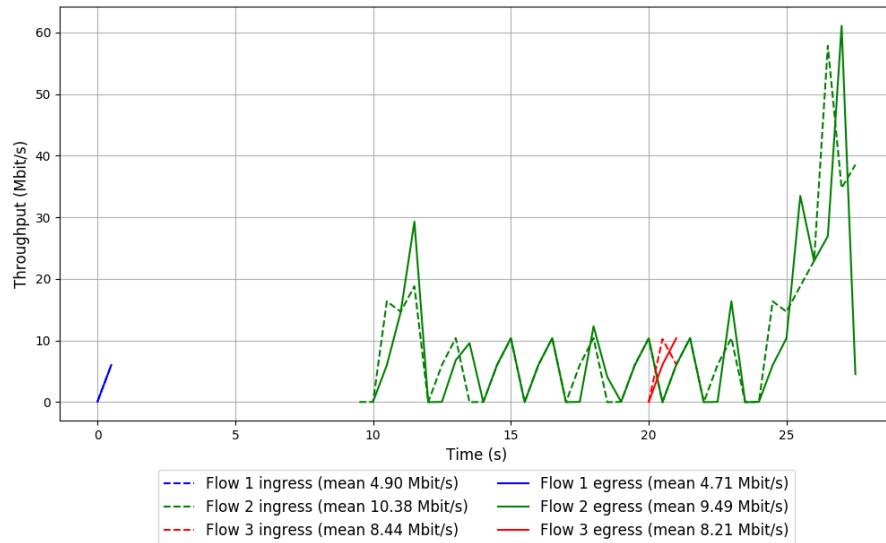
Run 1: Statistics of TaoVA-100x

Start at: 2017-09-08 10:56:48

End at: 2017-09-08 10:57:18

```
# Below is generated by plot.py at 2017-09-08 16:17:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.44 Mbit/s
95th percentile per-packet one-way delay: 162.719 ms
Loss rate: 9.84%
-- Flow 1:
Average throughput: 4.71 Mbit/s
95th percentile per-packet one-way delay: 162.785 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 162.713 ms
Loss rate: 10.44%
-- Flow 3:
Average throughput: 8.21 Mbit/s
95th percentile per-packet one-way delay: 162.939 ms
Loss rate: 0.00%
```

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



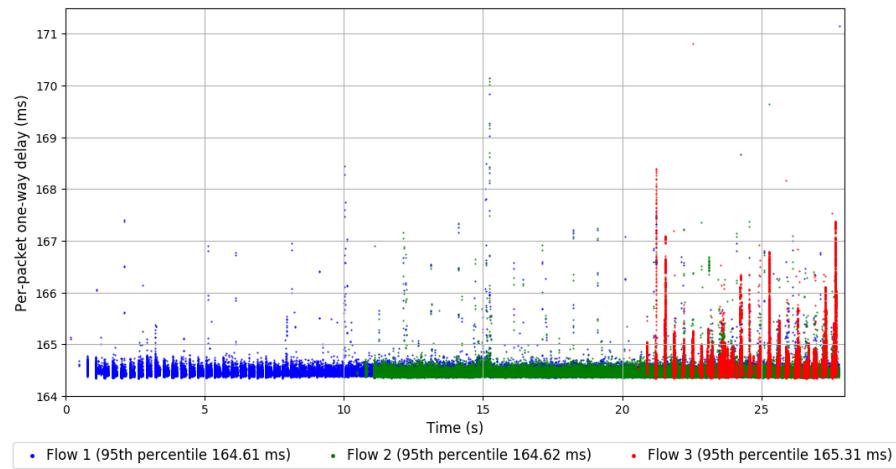
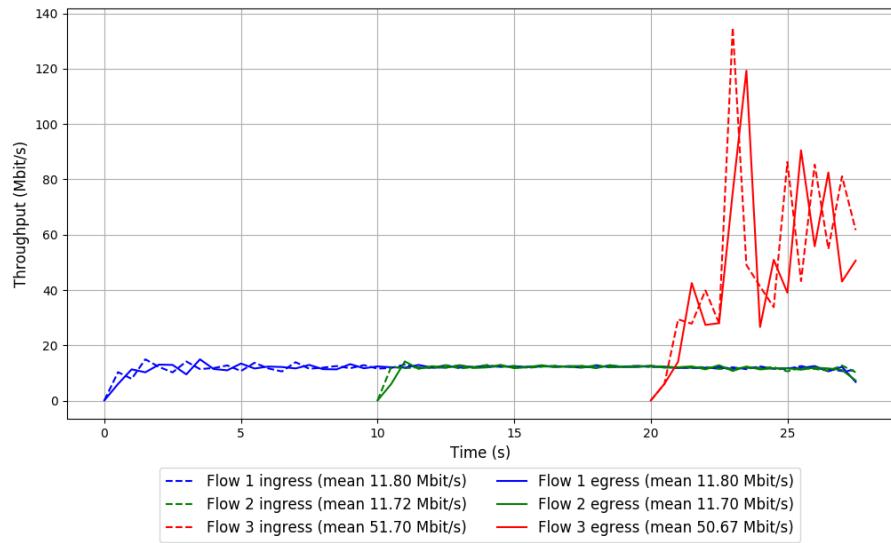
Run 2: Statistics of TaoVA-100x

Start at: 2017-09-08 11:10:48

End at: 2017-09-08 11:11:18

```
# Below is generated by plot.py at 2017-09-08 16:17:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 32.86 Mbit/s
95th percentile per-packet one-way delay: 164.880 ms
Loss rate: 3.48%
-- Flow 1:
Average throughput: 11.80 Mbit/s
95th percentile per-packet one-way delay: 164.612 ms
Loss rate: 1.06%
-- Flow 2:
Average throughput: 11.70 Mbit/s
95th percentile per-packet one-way delay: 164.616 ms
Loss rate: 1.81%
-- Flow 3:
Average throughput: 50.67 Mbit/s
95th percentile per-packet one-way delay: 165.315 ms
Loss rate: 6.35%
```

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

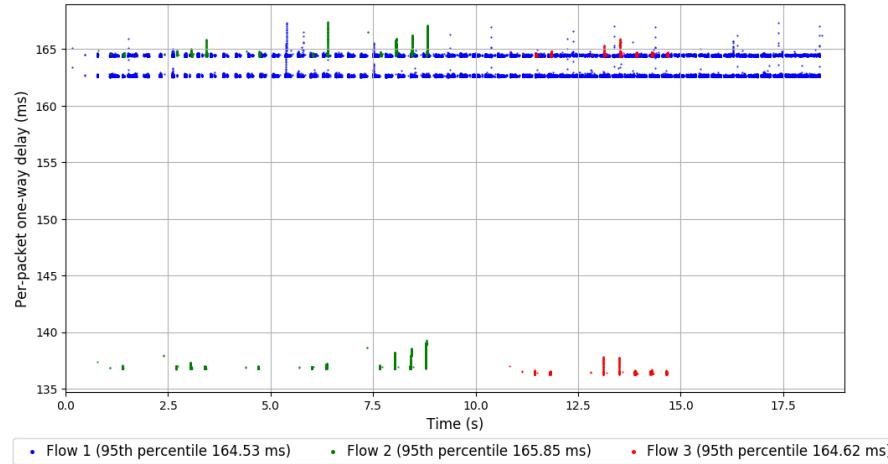
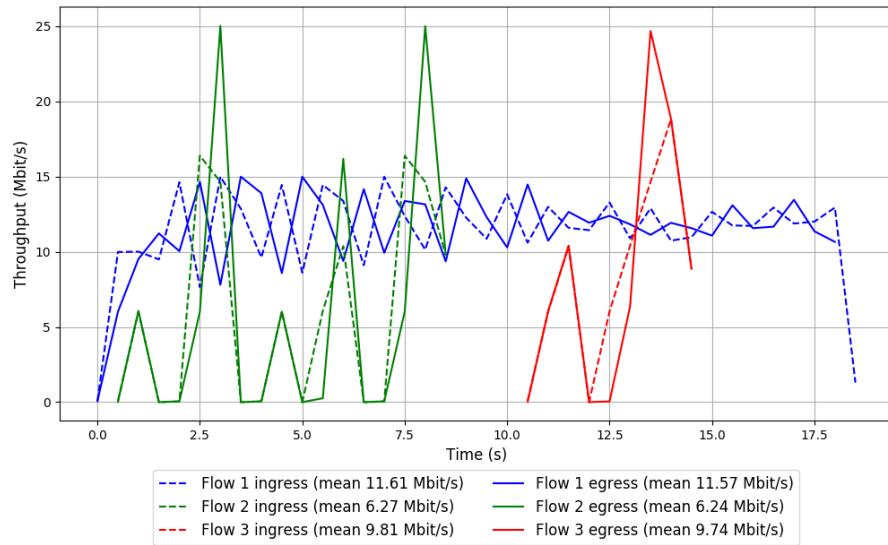


Run 3: Statistics of TaoVA-100x

Start at: 2017-09-08 11:24:48

End at: 2017-09-08 11:25:18

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



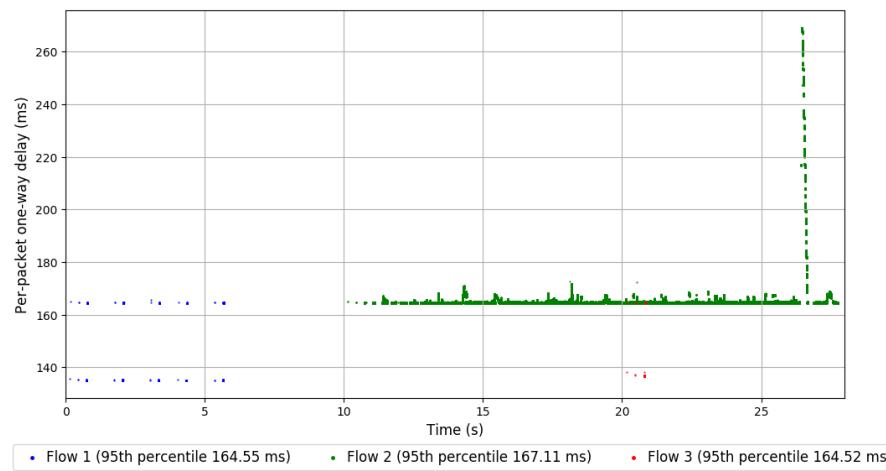
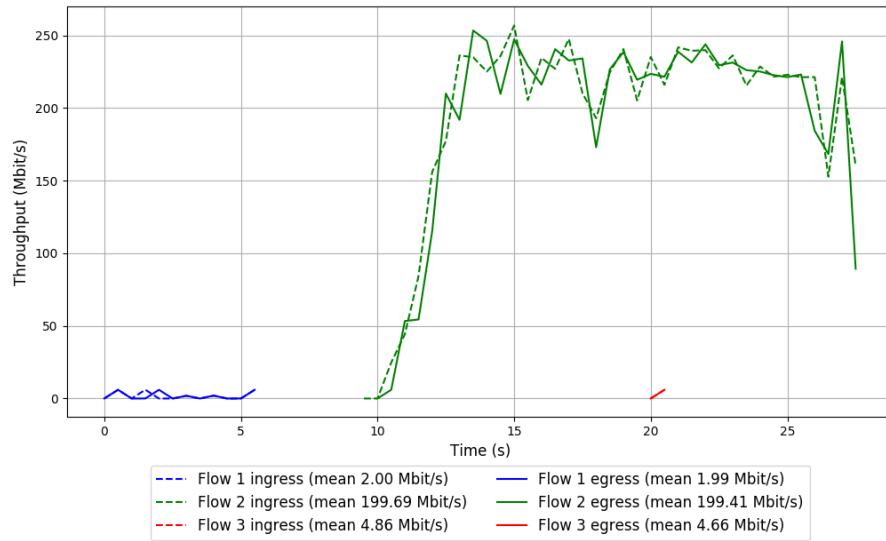
Run 4: Statistics of TaoVA-100x

Start at: 2017-09-08 11:38:38

End at: 2017-09-08 11:39:08

```
# Below is generated by plot.py at 2017-09-08 16:17:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 127.70 Mbit/s
95th percentile per-packet one-way delay: 167.105 ms
Loss rate: 1.97%
-- Flow 1:
Average throughput: 1.99 Mbit/s
95th percentile per-packet one-way delay: 164.553 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 199.41 Mbit/s
95th percentile per-packet one-way delay: 167.112 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 164.517 ms
Loss rate: 0.00%
```

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



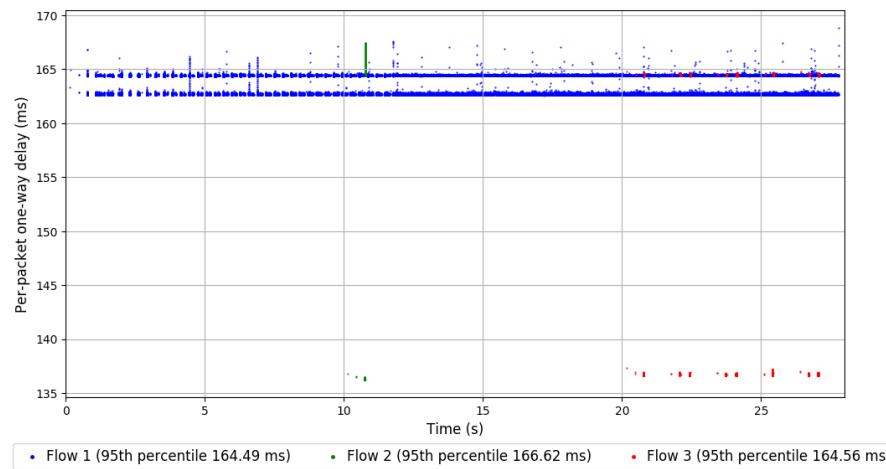
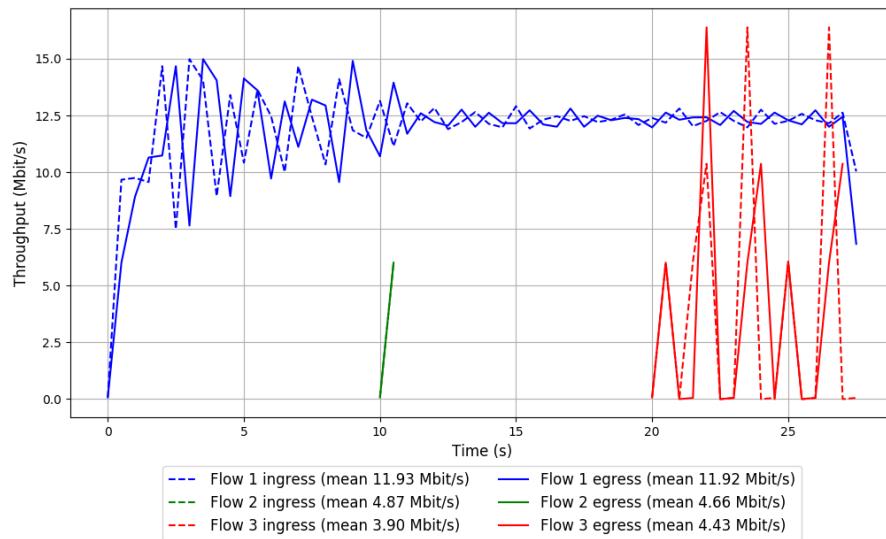
Run 5: Statistics of TaoVA-100x

Start at: 2017-09-08 11:52:37

End at: 2017-09-08 11:53:07

```
# Below is generated by plot.py at 2017-09-08 16:17:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.15 Mbit/s
95th percentile per-packet one-way delay: 164.504 ms
Loss rate: 1.01%
-- Flow 1:
Average throughput: 11.92 Mbit/s
95th percentile per-packet one-way delay: 164.494 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 4.66 Mbit/s
95th percentile per-packet one-way delay: 166.618 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 164.557 ms
Loss rate: 0.08%
```

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



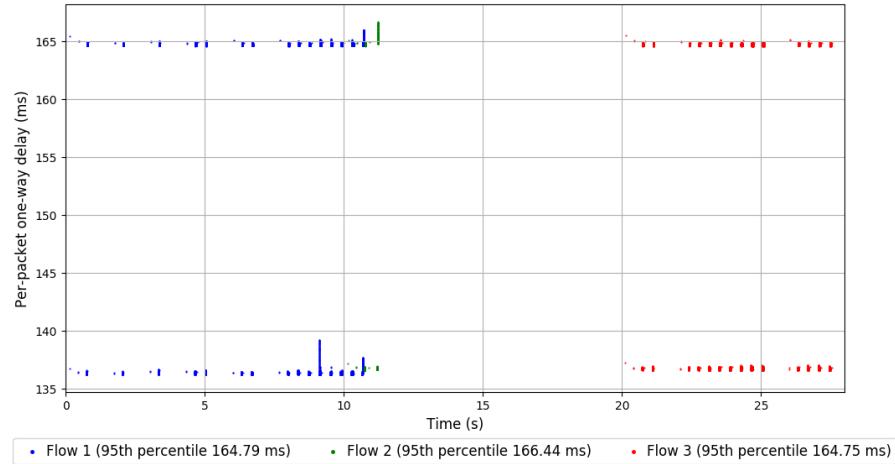
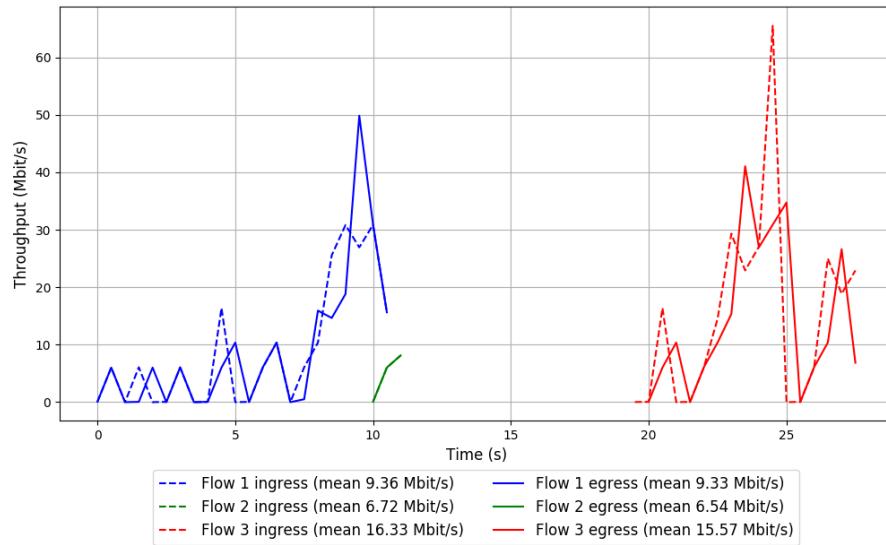
Run 6: Statistics of TaoVA-100x

Start at: 2017-09-08 12:05:56

End at: 2017-09-08 12:06:26

```
# Below is generated by plot.py at 2017-09-08 16:17:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 8.08 Mbit/s
95th percentile per-packet one-way delay: 164.778 ms
Loss rate: 4.92%
-- Flow 1:
Average throughput: 9.33 Mbit/s
95th percentile per-packet one-way delay: 164.790 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 166.436 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.57 Mbit/s
95th percentile per-packet one-way delay: 164.748 ms
Loss rate: 9.00%
```

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



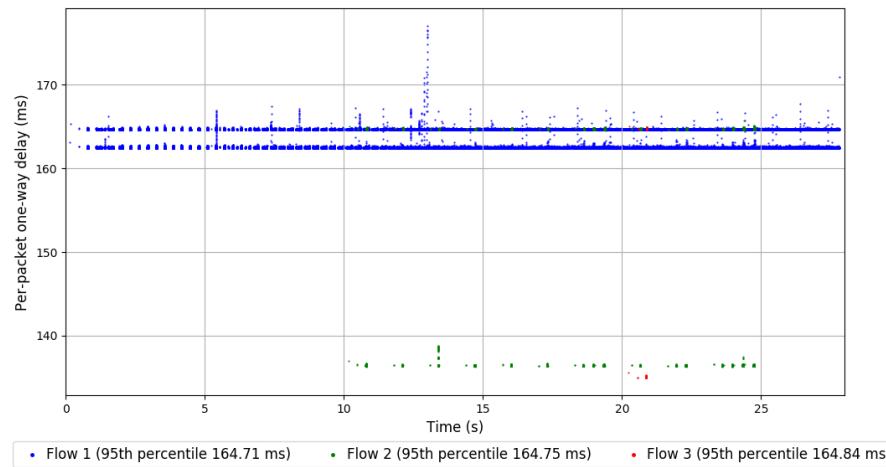
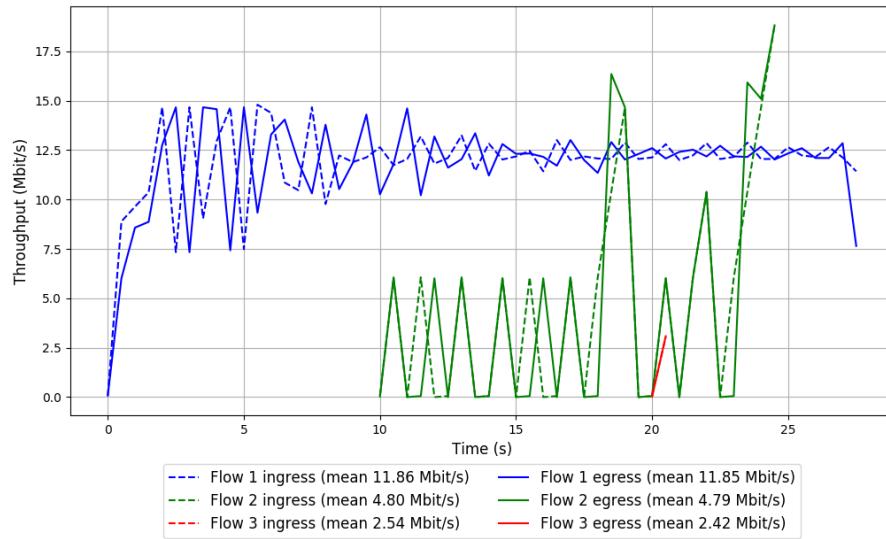
Run 7: Statistics of TaoVA-100x

Start at: 2017-09-08 12:19:06

End at: 2017-09-08 12:19:36

```
# Below is generated by plot.py at 2017-09-08 16:17:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.43 Mbit/s
95th percentile per-packet one-way delay: 164.719 ms
Loss rate: 0.93%
-- Flow 1:
Average throughput: 11.85 Mbit/s
95th percentile per-packet one-way delay: 164.707 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 4.79 Mbit/s
95th percentile per-packet one-way delay: 164.755 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 2.42 Mbit/s
95th percentile per-packet one-way delay: 164.842 ms
Loss rate: 0.00%
```

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



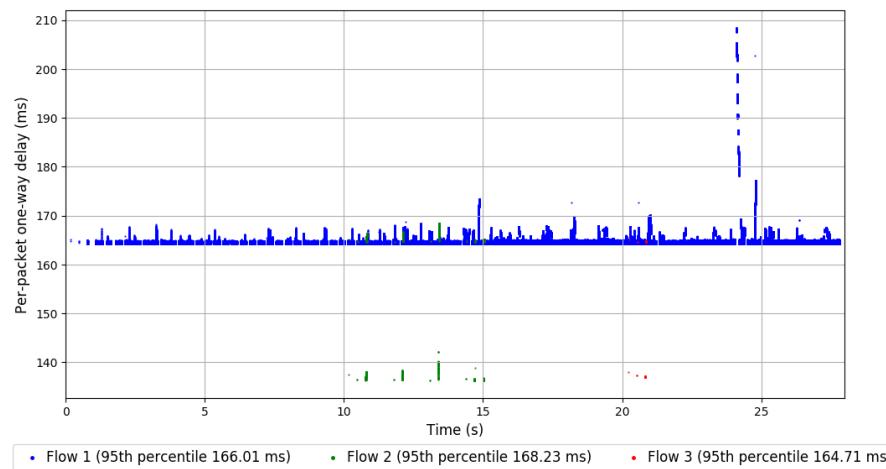
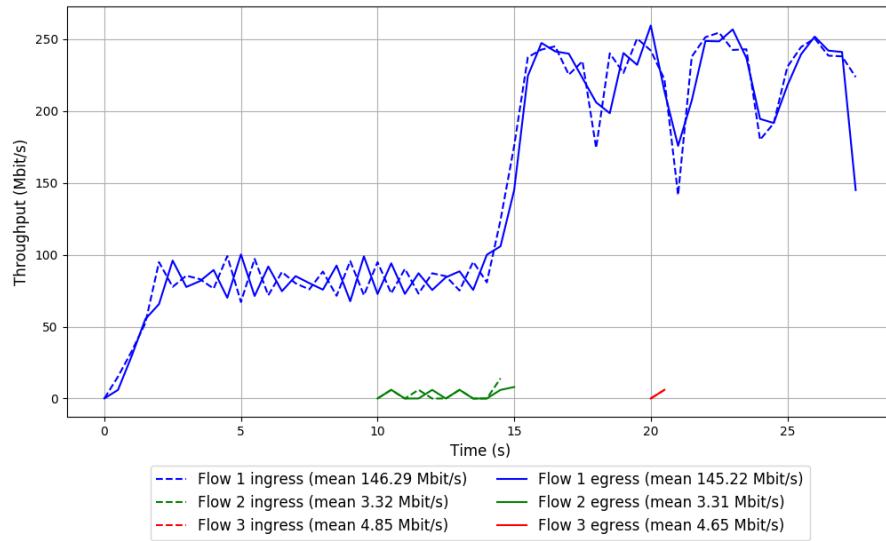
Run 8: Statistics of TaoVA-100x

Start at: 2017-09-08 12:32:24

End at: 2017-09-08 12:32:54

```
# Below is generated by plot.py at 2017-09-08 16:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.92 Mbit/s
95th percentile per-packet one-way delay: 166.022 ms
Loss rate: 1.86%
-- Flow 1:
Average throughput: 145.22 Mbit/s
95th percentile per-packet one-way delay: 166.012 ms
Loss rate: 1.87%
-- Flow 2:
Average throughput: 3.31 Mbit/s
95th percentile per-packet one-way delay: 168.229 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.65 Mbit/s
95th percentile per-packet one-way delay: 164.705 ms
Loss rate: 0.00%
```

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



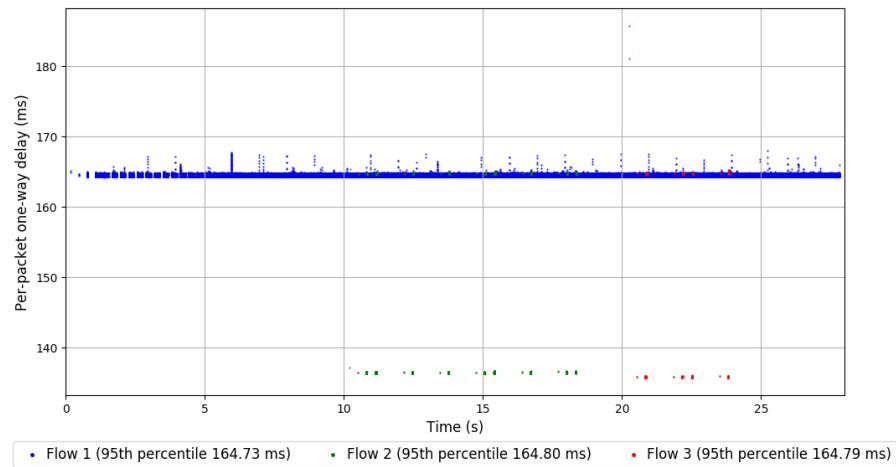
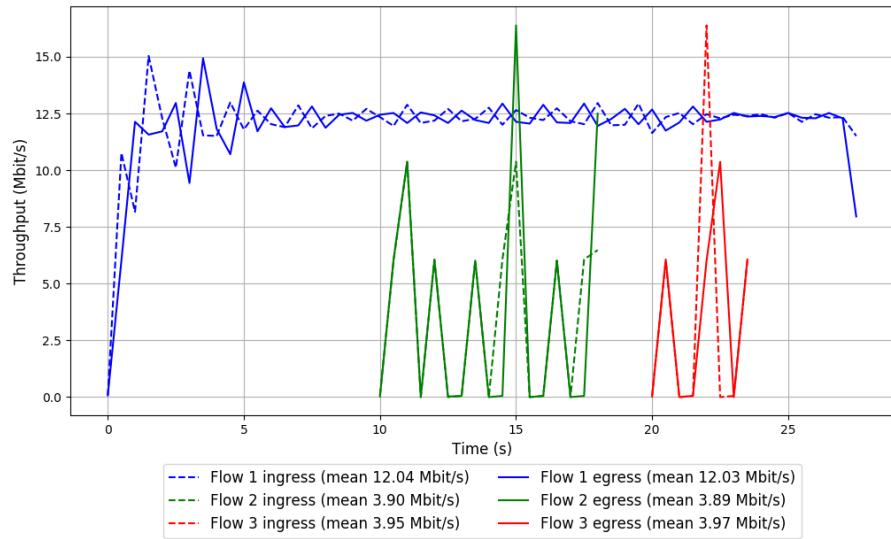
Run 9: Statistics of TaoVA-100x

Start at: 2017-09-08 12:45:45

End at: 2017-09-08 12:46:15

```
# Below is generated by plot.py at 2017-09-08 16:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.70 Mbit/s
95th percentile per-packet one-way delay: 164.744 ms
Loss rate: 0.98%
-- Flow 1:
Average throughput: 12.03 Mbit/s
95th percentile per-packet one-way delay: 164.734 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 3.89 Mbit/s
95th percentile per-packet one-way delay: 164.798 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 3.97 Mbit/s
95th percentile per-packet one-way delay: 164.792 ms
Loss rate: 0.00%
```

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



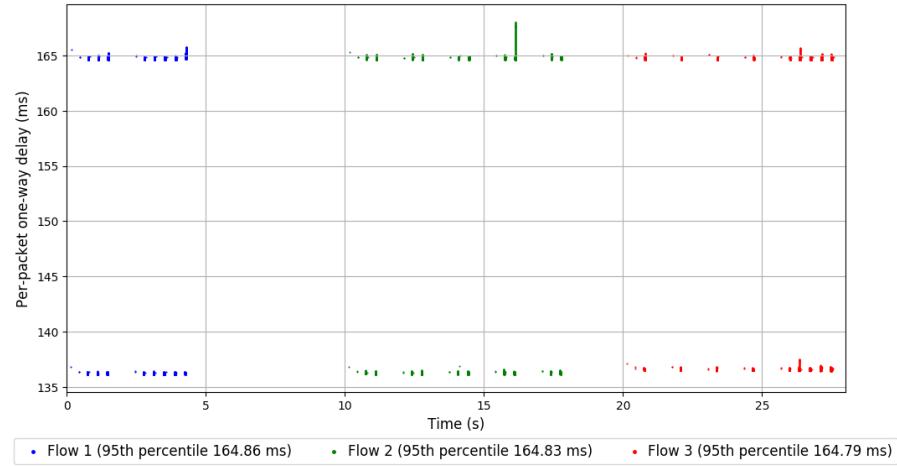
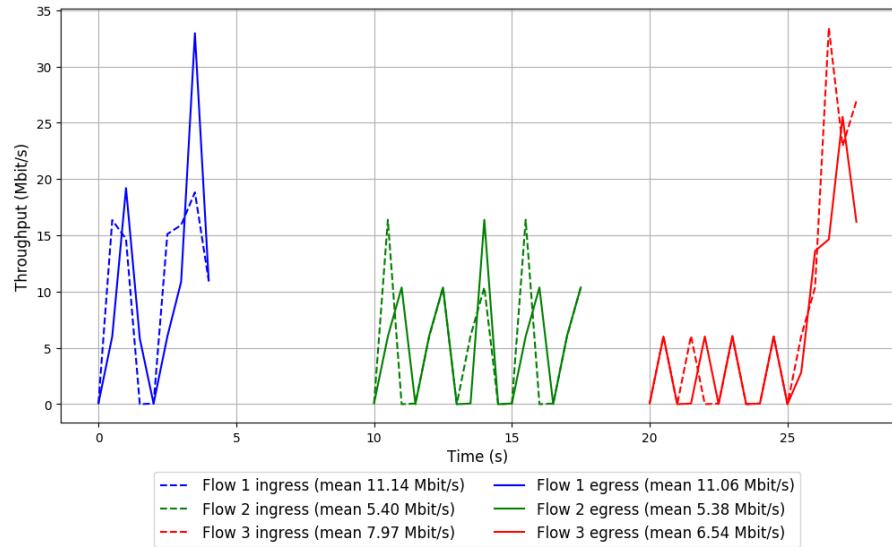
Run 10: Statistics of TaoVA-100x

Start at: 2017-09-08 12:59:11

End at: 2017-09-08 12:59:41

```
# Below is generated by plot.py at 2017-09-08 16:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 4.94 Mbit/s
95th percentile per-packet one-way delay: 164.817 ms
Loss rate: 9.03%
-- Flow 1:
Average throughput: 11.06 Mbit/s
95th percentile per-packet one-way delay: 164.860 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.38 Mbit/s
95th percentile per-packet one-way delay: 164.827 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.54 Mbit/s
95th percentile per-packet one-way delay: 164.787 ms
Loss rate: 21.71%
```

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

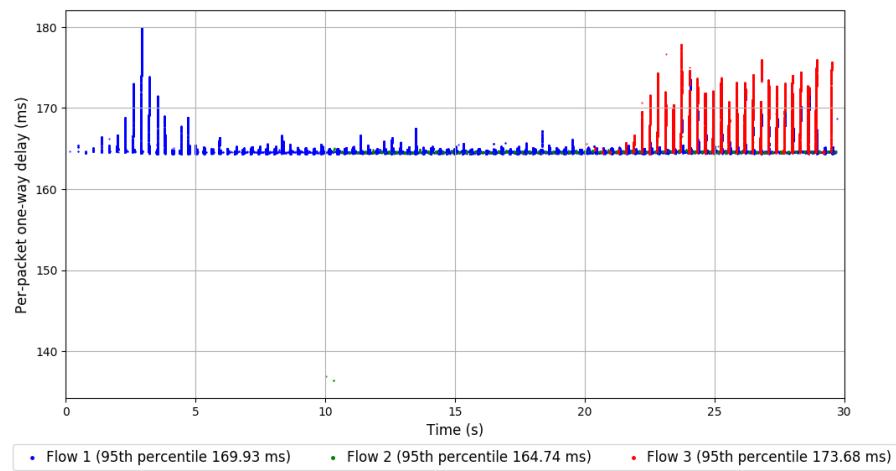
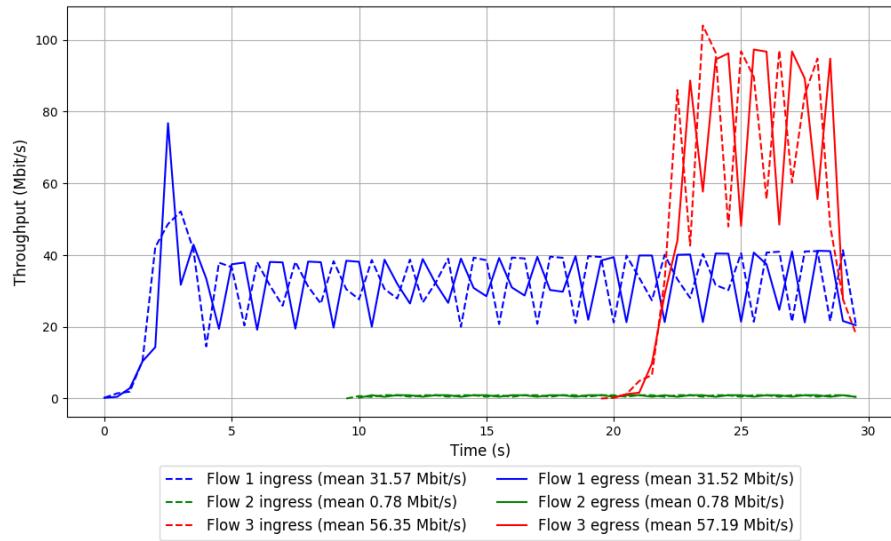


```
Run 1: Statistics of TCP Vegas

Start at: 2017-09-08 11:08:03
End at: 2017-09-08 11:08:33

# Below is generated by plot.py at 2017-09-08 16:18:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 50.27 Mbit/s
95th percentile per-packet one-way delay: 172.763 ms
Loss rate: 1.32%
-- Flow 1:
Average throughput: 31.52 Mbit/s
95th percentile per-packet one-way delay: 169.933 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 164.737 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 57.19 Mbit/s
95th percentile per-packet one-way delay: 173.678 ms
Loss rate: 1.66%
```

Run 1: Report of TCP Vegas — Data Link



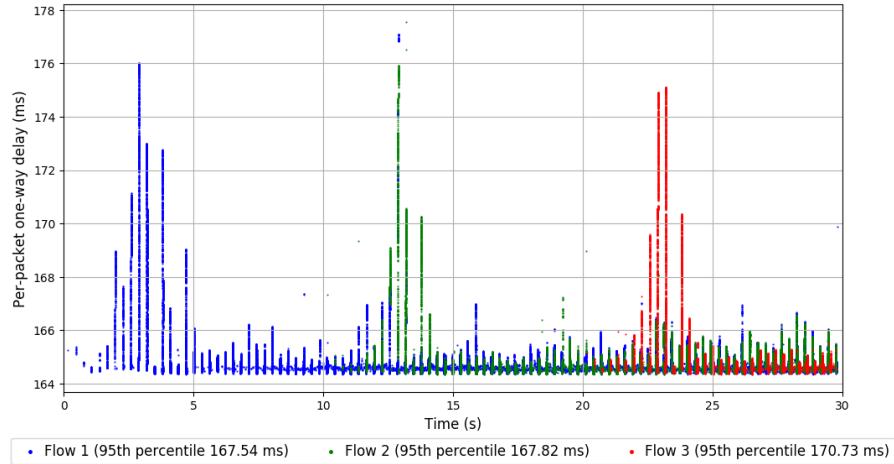
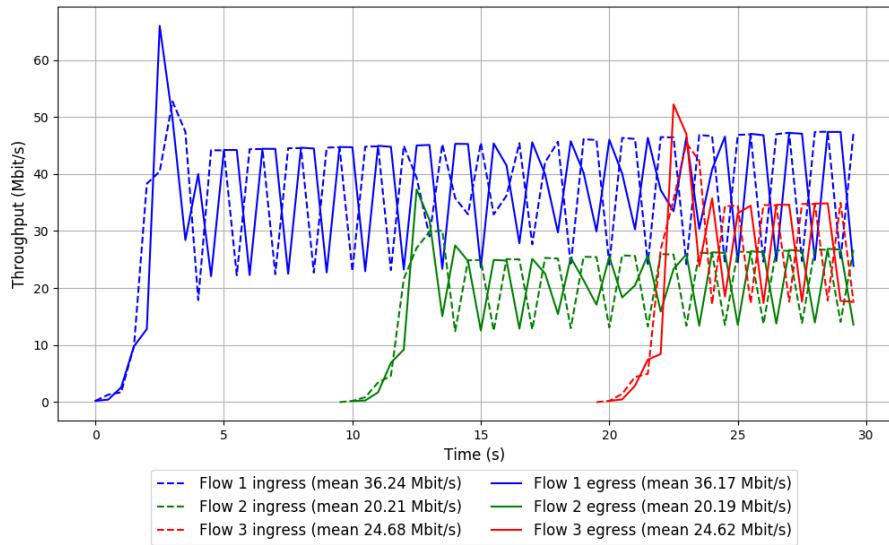
Run 2: Statistics of TCP Vegas

Start at: 2017-09-08 11:22:01

End at: 2017-09-08 11:22:31

```
# Below is generated by plot.py at 2017-09-08 16:18:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 57.53 Mbit/s
95th percentile per-packet one-way delay: 168.304 ms
Loss rate: 1.59%
-- Flow 1:
Average throughput: 36.17 Mbit/s
95th percentile per-packet one-way delay: 167.539 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 20.19 Mbit/s
95th percentile per-packet one-way delay: 167.820 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 24.62 Mbit/s
95th percentile per-packet one-way delay: 170.733 ms
Loss rate: 3.58%
```

Run 2: Report of TCP Vegas — Data Link



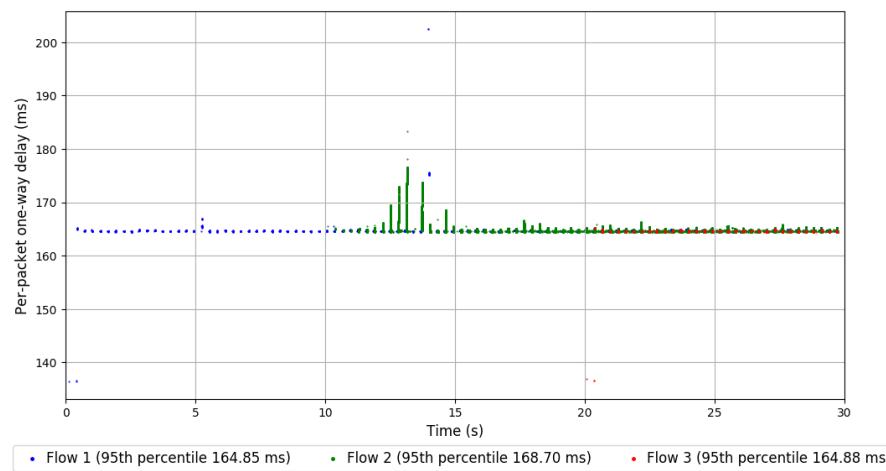
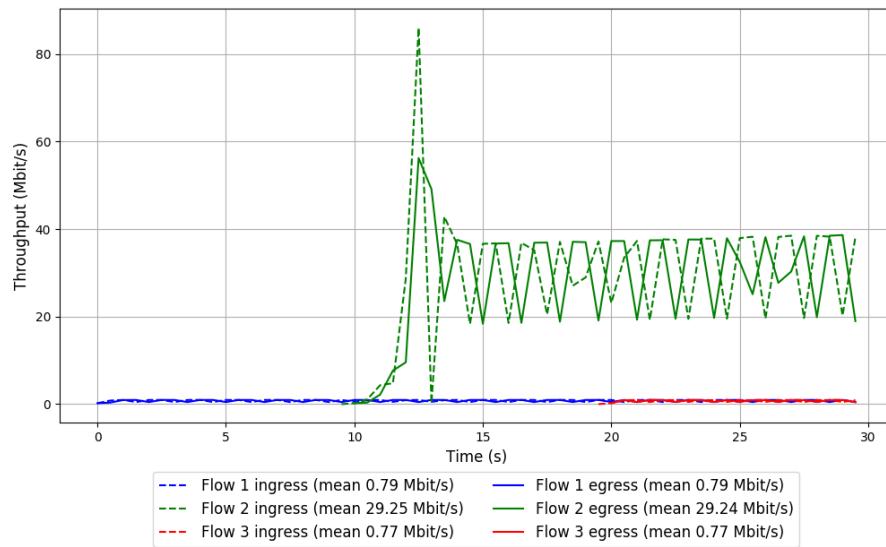
Run 3: Statistics of TCP Vegas

Start at: 2017-09-08 11:35:54

End at: 2017-09-08 11:36:24

```
# Below is generated by plot.py at 2017-09-08 16:18:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 20.44 Mbit/s
95th percentile per-packet one-way delay: 168.511 ms
Loss rate: 1.66%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 164.846 ms
Loss rate: 1.02%
-- Flow 2:
Average throughput: 29.24 Mbit/s
95th percentile per-packet one-way delay: 168.699 ms
Loss rate: 1.67%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 164.884 ms
Loss rate: 3.13%
```

Run 3: Report of TCP Vegas — Data Link



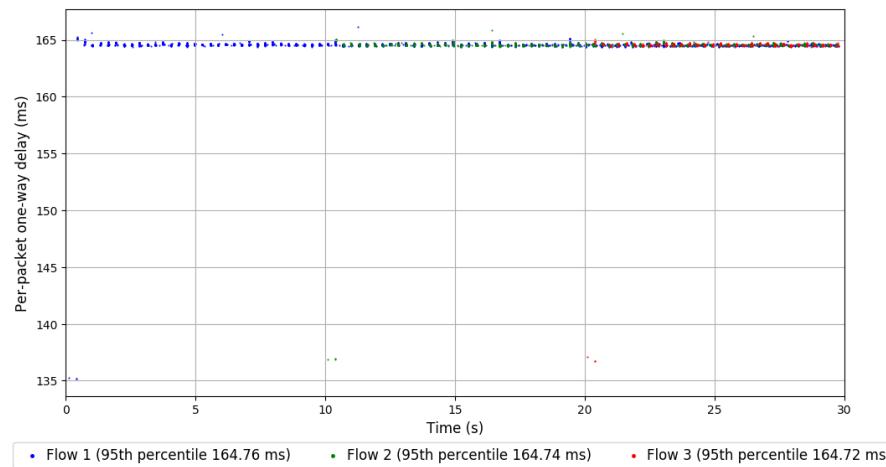
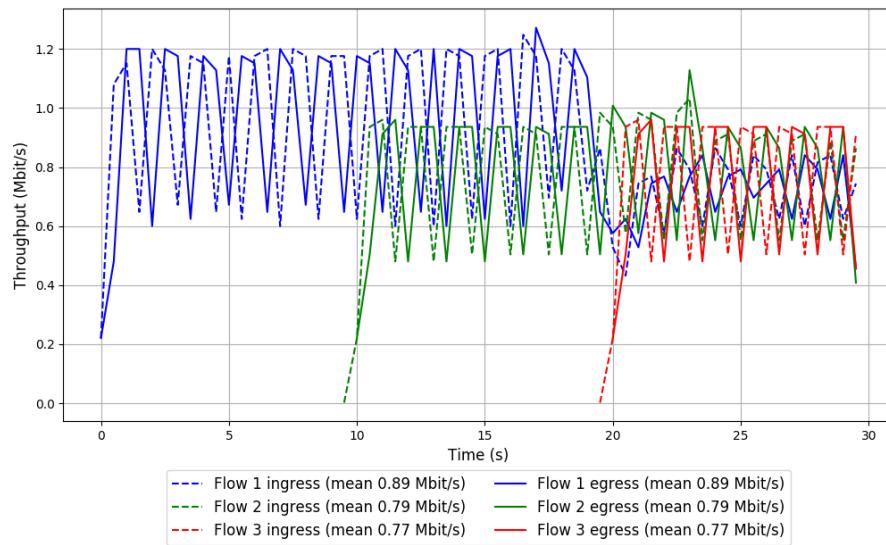
Run 4: Statistics of TCP Vegas

Start at: 2017-09-08 11:49:55

End at: 2017-09-08 11:50:25

```
# Below is generated by plot.py at 2017-09-08 16:18:29
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.66 Mbit/s
95th percentile per-packet one-way delay: 164.747 ms
Loss rate: 1.47%
-- Flow 1:
Average throughput: 0.89 Mbit/s
95th percentile per-packet one-way delay: 164.763 ms
Loss rate: 0.95%
-- Flow 2:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 164.738 ms
Loss rate: 1.53%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 164.717 ms
Loss rate: 3.13%
```

Run 4: Report of TCP Vegas — Data Link



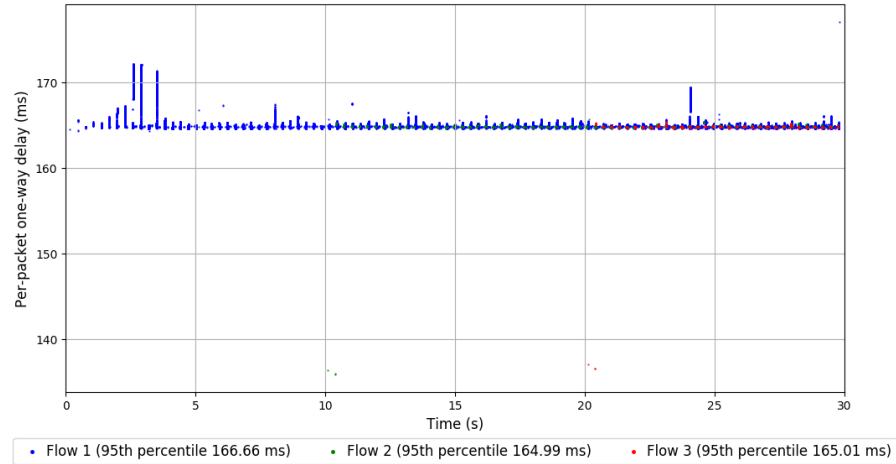
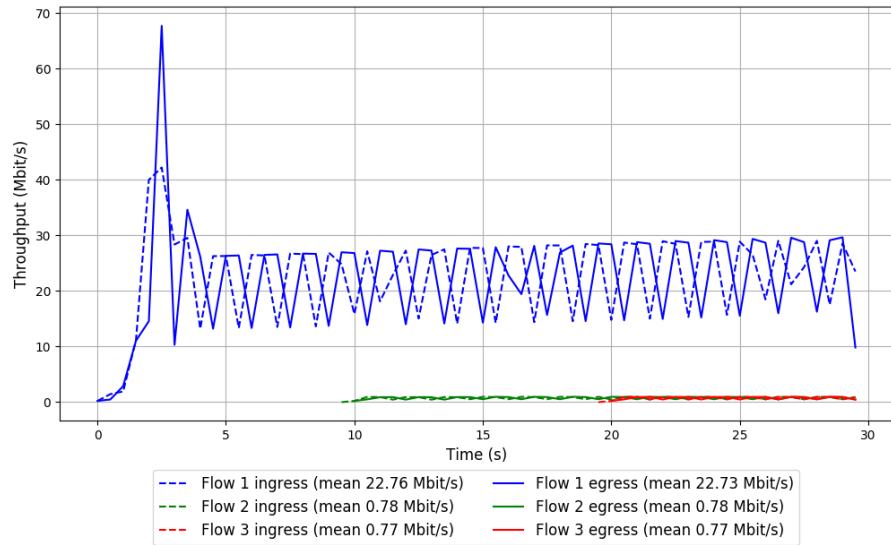
Run 5: Statistics of TCP Vegas

Start at: 2017-09-08 12:03:17

End at: 2017-09-08 12:03:47

```
# Below is generated by plot.py at 2017-09-08 16:18:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 23.49 Mbit/s
95th percentile per-packet one-way delay: 166.490 ms
Loss rate: 1.13%
-- Flow 1:
Average throughput: 22.73 Mbit/s
95th percentile per-packet one-way delay: 166.663 ms
Loss rate: 1.10%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 164.988 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 165.008 ms
Loss rate: 3.13%
```

Run 5: Report of TCP Vegas — Data Link



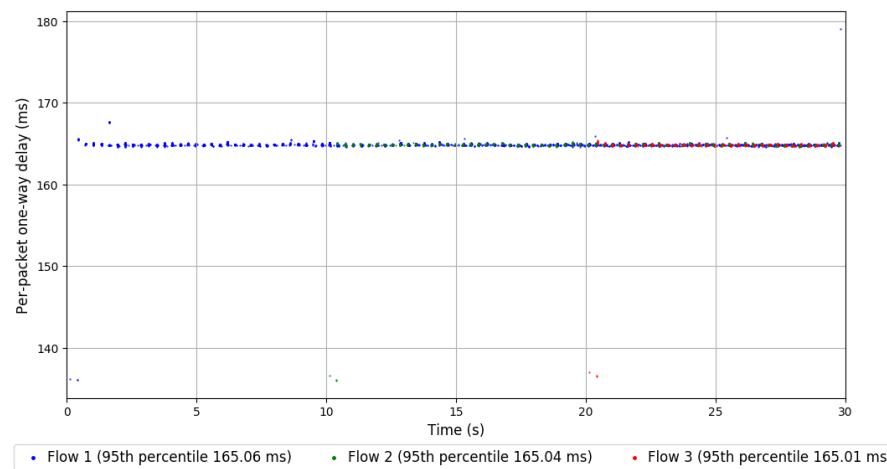
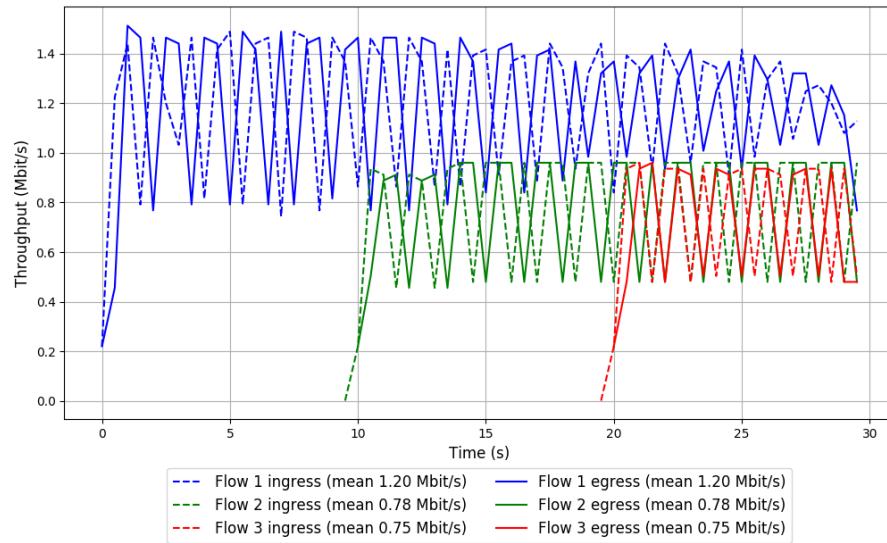
Run 6: Statistics of TCP Vegas

Start at: 2017-09-08 12:16:29

End at: 2017-09-08 12:16:59

```
# Below is generated by plot.py at 2017-09-08 16:18:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.96 Mbit/s
95th percentile per-packet one-way delay: 165.049 ms
Loss rate: 1.40%
-- Flow 1:
Average throughput: 1.20 Mbit/s
95th percentile per-packet one-way delay: 165.061 ms
Loss rate: 0.97%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 165.042 ms
Loss rate: 1.54%
-- Flow 3:
Average throughput: 0.75 Mbit/s
95th percentile per-packet one-way delay: 165.006 ms
Loss rate: 3.22%
```

Run 6: Report of TCP Vegas — Data Link



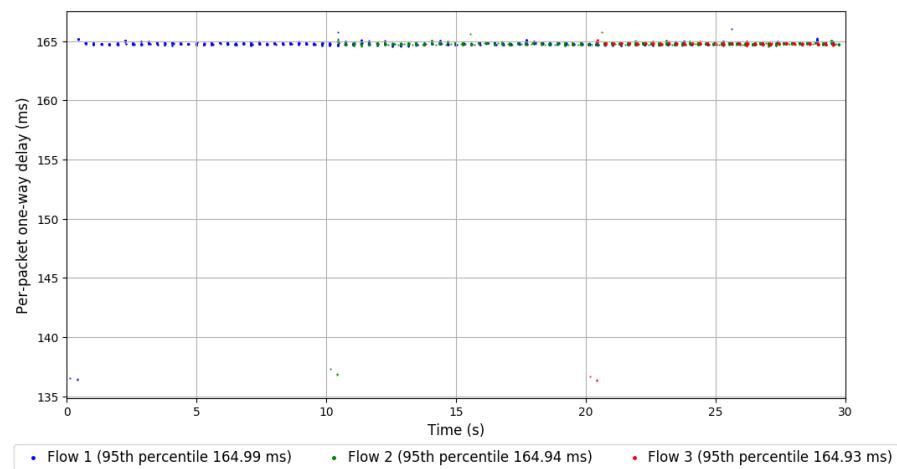
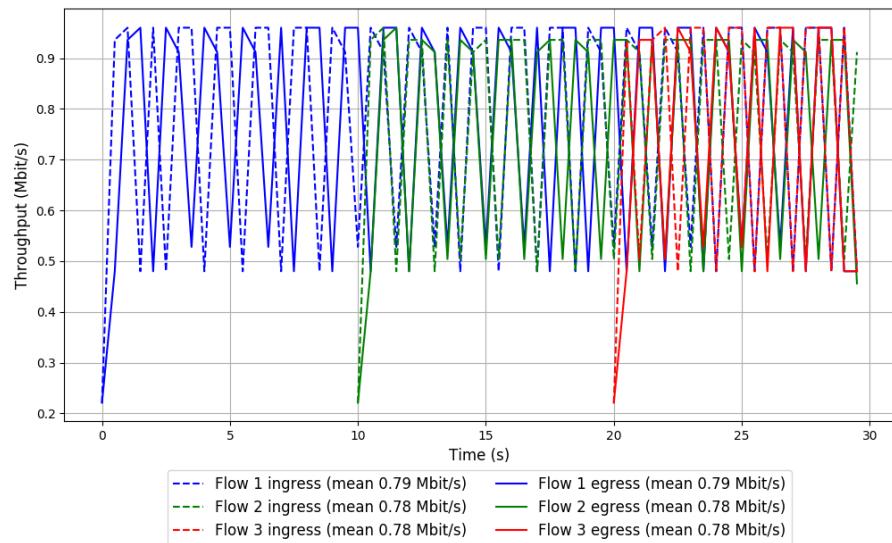
Run 7: Statistics of TCP Vegas

Start at: 2017-09-08 12:29:47

End at: 2017-09-08 12:30:17

```
# Below is generated by plot.py at 2017-09-08 16:18:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 164.958 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 0.79 Mbit/s
95th percentile per-packet one-way delay: 164.989 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 164.935 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 164.925 ms
Loss rate: 3.18%
```

Run 7: Report of TCP Vegas — Data Link



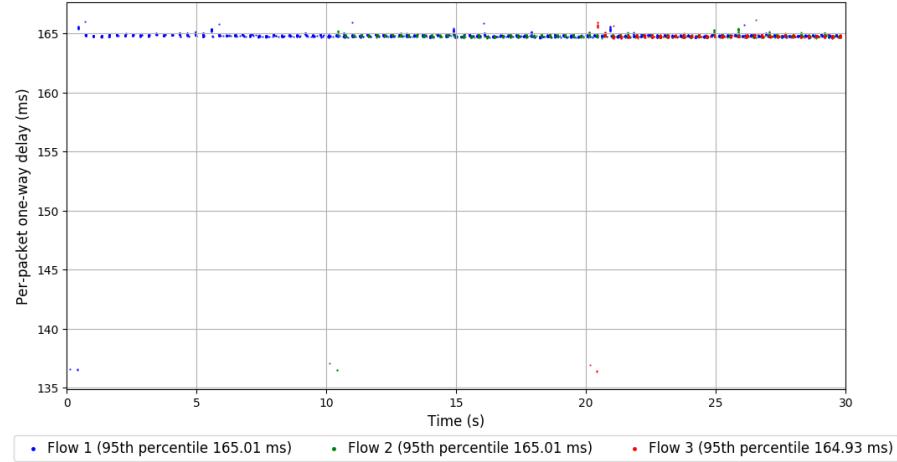
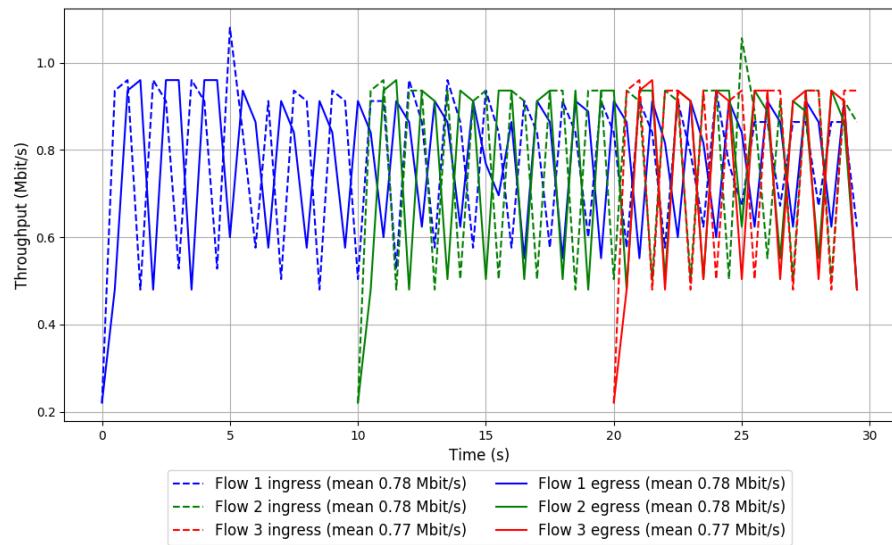
Run 8: Statistics of TCP Vegas

Start at: 2017-09-08 12:43:08

End at: 2017-09-08 12:43:38

```
# Below is generated by plot.py at 2017-09-08 16:18:36
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 164.998 ms
Loss rate: 1.52%
-- Flow 1:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 165.008 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 165.007 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 164.932 ms
Loss rate: 3.13%
```

Run 8: Report of TCP Vegas — Data Link



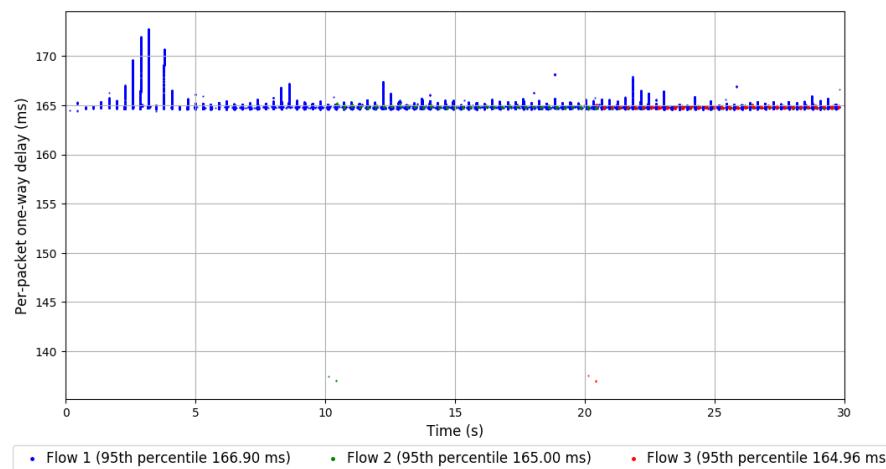
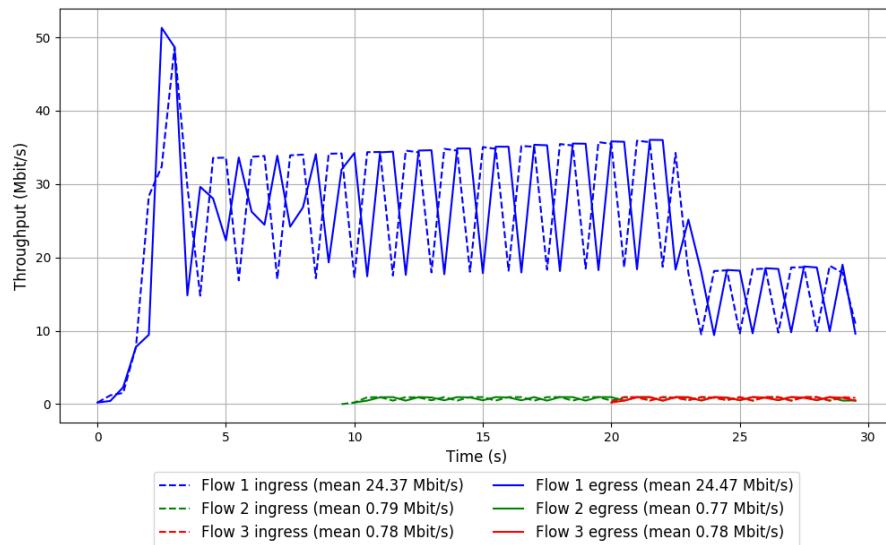
Run 9: Statistics of TCP Vegas

Start at: 2017-09-08 12:56:32

End at: 2017-09-08 12:57:02

```
# Below is generated by plot.py at 2017-09-08 16:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 25.22 Mbit/s
95th percentile per-packet one-way delay: 166.830 ms
Loss rate: 0.71%
-- Flow 1:
Average throughput: 24.47 Mbit/s
95th percentile per-packet one-way delay: 166.901 ms
Loss rate: 0.67%
-- Flow 2:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 164.997 ms
Loss rate: 1.47%
-- Flow 3:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 164.956 ms
Loss rate: 3.10%
```

Run 9: Report of TCP Vegas — Data Link



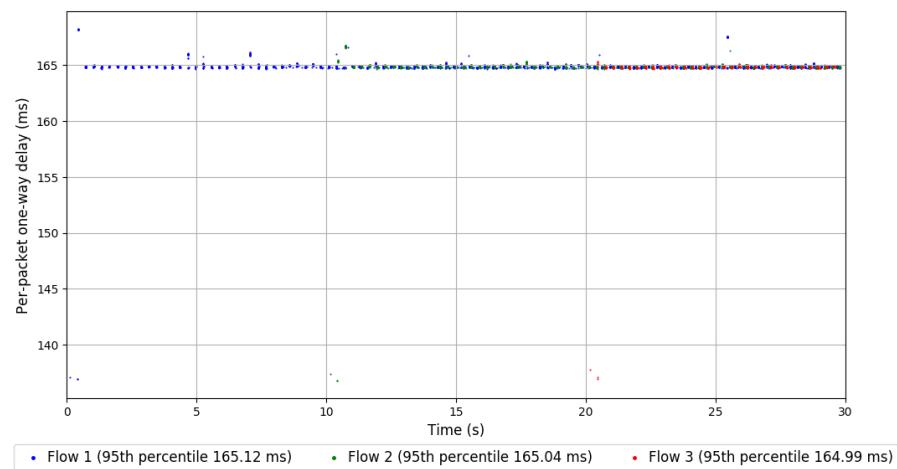
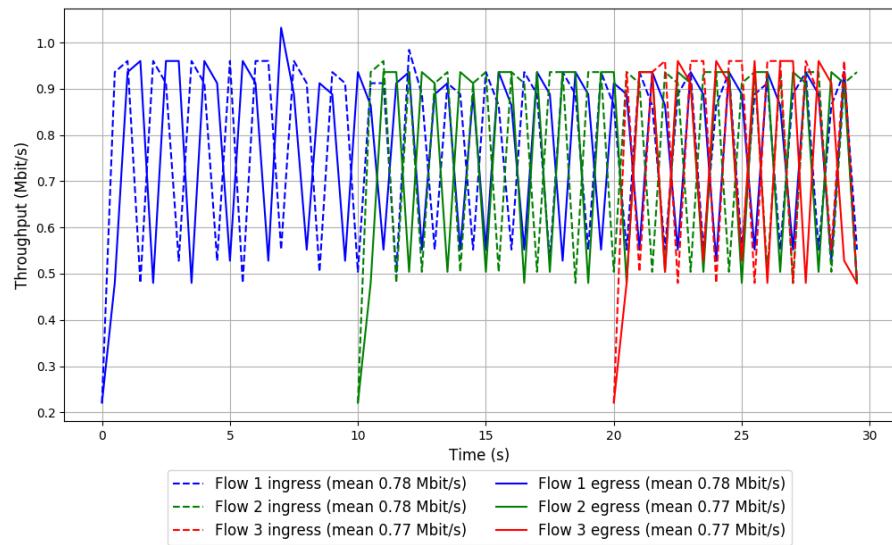
Run 10: Statistics of TCP Vegas

Start at: 2017-09-08 13:09:50

End at: 2017-09-08 13:10:20

```
# Below is generated by plot.py at 2017-09-08 16:18:41
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.54 Mbit/s
95th percentile per-packet one-way delay: 165.077 ms
Loss rate: 1.55%
-- Flow 1:
Average throughput: 0.78 Mbit/s
95th percentile per-packet one-way delay: 165.122 ms
Loss rate: 1.03%
-- Flow 2:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 165.040 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 0.77 Mbit/s
95th percentile per-packet one-way delay: 164.990 ms
Loss rate: 3.18%
```

Run 10: Report of TCP Vegas — Data Link



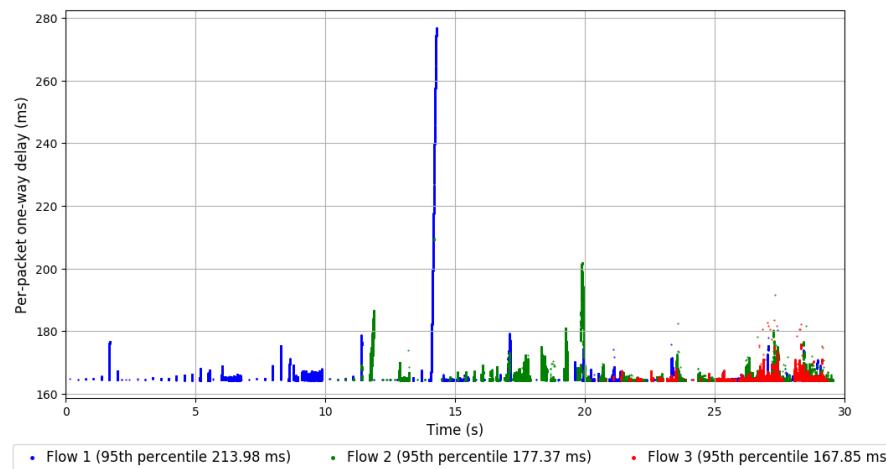
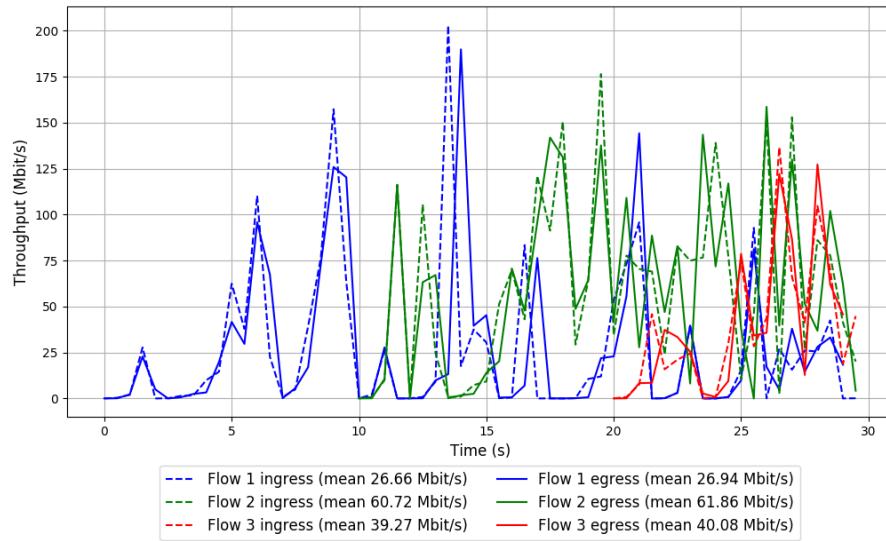
Run 1: Statistics of Verus

Start at: 2017-09-08 10:58:49

End at: 2017-09-08 10:59:19

```
# Below is generated by plot.py at 2017-09-08 16:18:56
# Datalink statistics
-- Total of 3 flows:
Average throughput: 80.13 Mbit/s
95th percentile per-packet one-way delay: 178.984 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 26.94 Mbit/s
95th percentile per-packet one-way delay: 213.978 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 61.86 Mbit/s
95th percentile per-packet one-way delay: 177.368 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 40.08 Mbit/s
95th percentile per-packet one-way delay: 167.849 ms
Loss rate: 5.78%
```

Run 1: Report of Verus — Data Link



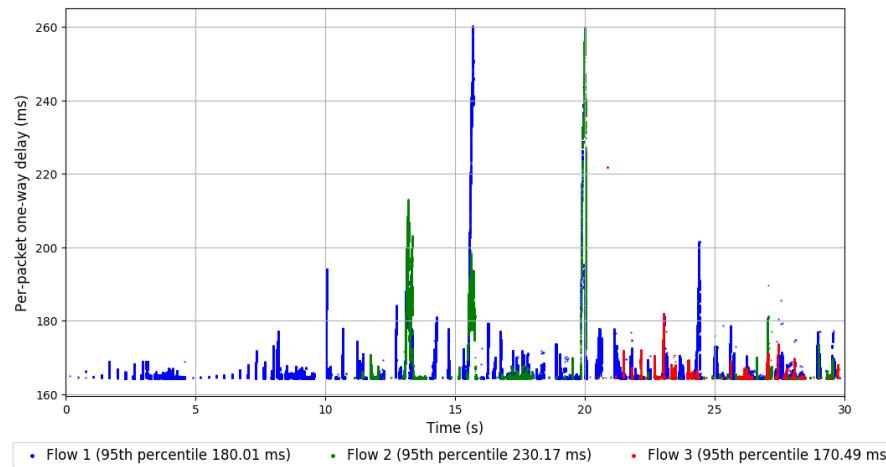
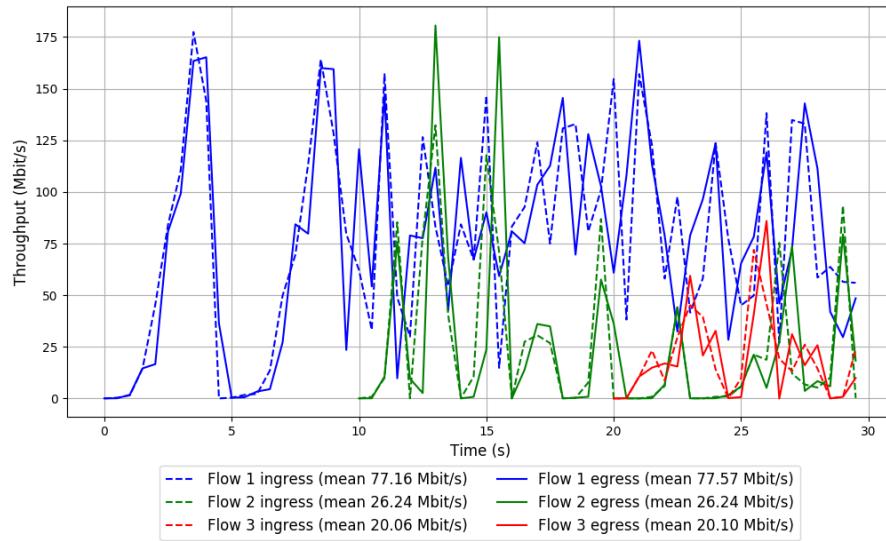
Run 2: Statistics of Verus

Start at: 2017-09-08 11:12:44

End at: 2017-09-08 11:13:14

```
# Below is generated by plot.py at 2017-09-08 16:19:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 100.83 Mbit/s
95th percentile per-packet one-way delay: 190.154 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 77.57 Mbit/s
95th percentile per-packet one-way delay: 180.006 ms
Loss rate: 1.21%
-- Flow 2:
Average throughput: 26.24 Mbit/s
95th percentile per-packet one-way delay: 230.171 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 20.10 Mbit/s
95th percentile per-packet one-way delay: 170.489 ms
Loss rate: 3.50%
```

Run 2: Report of Verus — Data Link



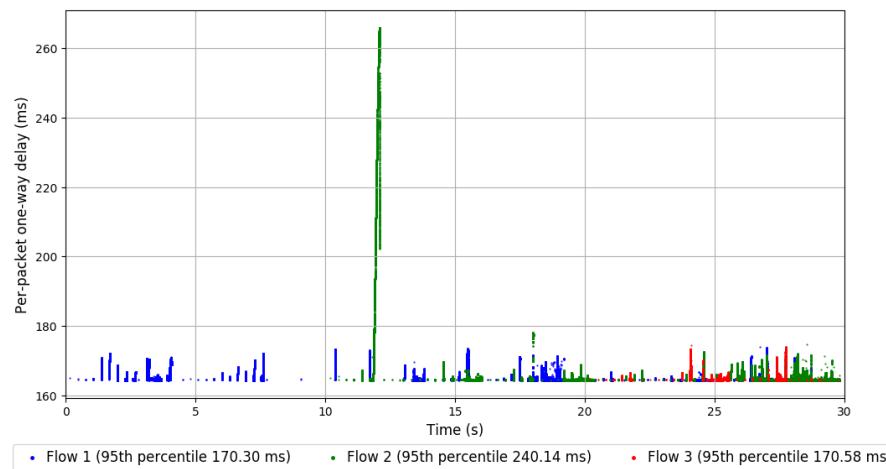
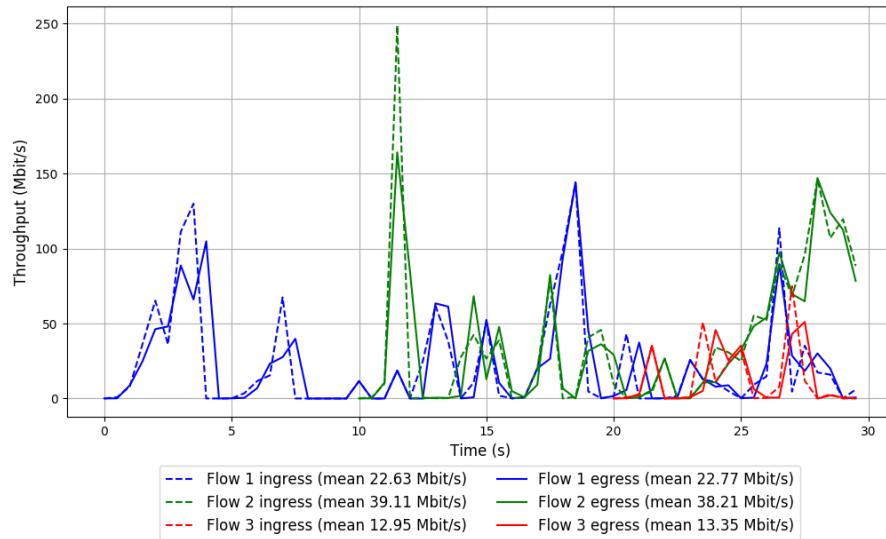
Run 3: Statistics of Verus

Start at: 2017-09-08 11:26:49

End at: 2017-09-08 11:27:19

```
# Below is generated by plot.py at 2017-09-08 16:19:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 52.34 Mbit/s
95th percentile per-packet one-way delay: 178.644 ms
Loss rate: 1.77%
-- Flow 1:
Average throughput: 22.77 Mbit/s
95th percentile per-packet one-way delay: 170.303 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 38.21 Mbit/s
95th percentile per-packet one-way delay: 240.141 ms
Loss rate: 3.26%
-- Flow 3:
Average throughput: 13.35 Mbit/s
95th percentile per-packet one-way delay: 170.578 ms
Loss rate: 0.06%
```

Run 3: Report of Verus — Data Link



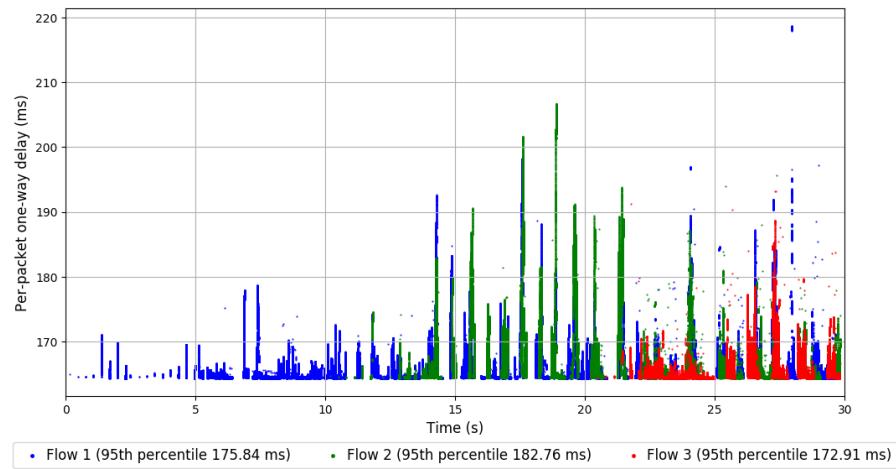
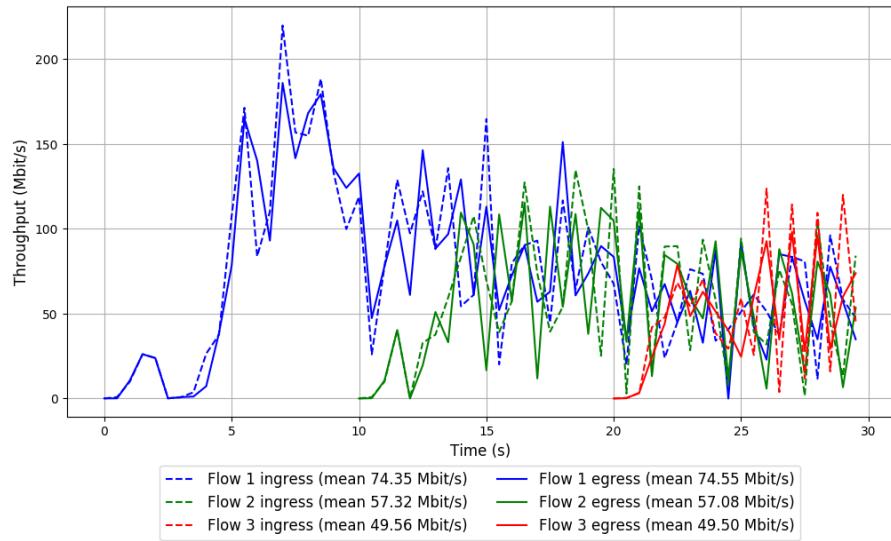
Run 4: Statistics of Verus

Start at: 2017-09-08 11:40:37

End at: 2017-09-08 11:41:07

```
# Below is generated by plot.py at 2017-09-08 16:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 128.36 Mbit/s
95th percentile per-packet one-way delay: 177.857 ms
Loss rate: 1.39%
-- Flow 1:
Average throughput: 74.55 Mbit/s
95th percentile per-packet one-way delay: 175.842 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 57.08 Mbit/s
95th percentile per-packet one-way delay: 182.757 ms
Loss rate: 1.91%
-- Flow 3:
Average throughput: 49.50 Mbit/s
95th percentile per-packet one-way delay: 172.911 ms
Loss rate: 3.22%
```

Run 4: Report of Verus — Data Link



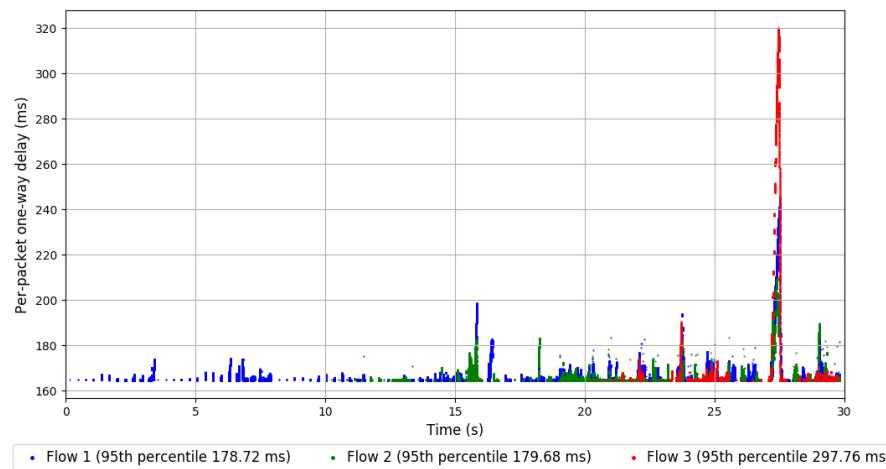
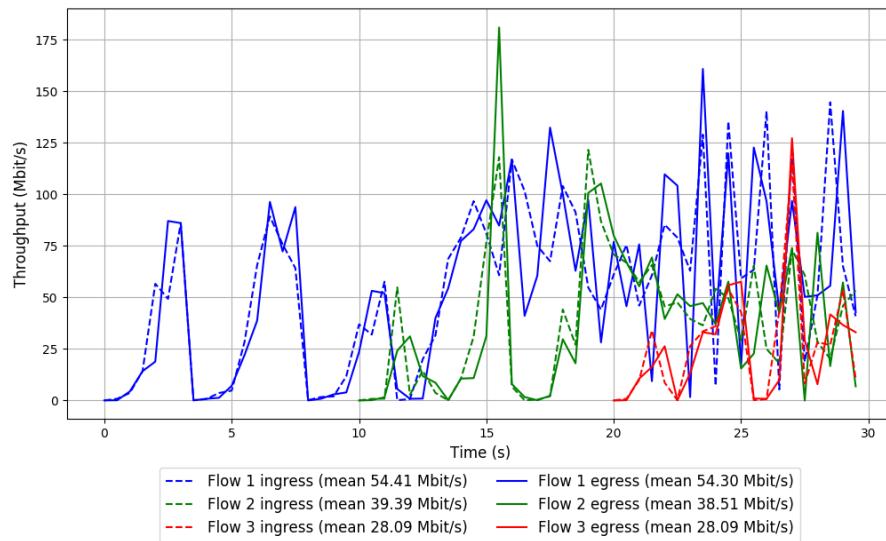
Run 5: Statistics of Verus

Start at: 2017-09-08 11:54:24

End at: 2017-09-08 11:54:54

```
# Below is generated by plot.py at 2017-09-08 16:19:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 88.75 Mbit/s
95th percentile per-packet one-way delay: 182.714 ms
Loss rate: 1.09%
-- Flow 1:
Average throughput: 54.30 Mbit/s
95th percentile per-packet one-way delay: 178.716 ms
Loss rate: 0.37%
-- Flow 2:
Average throughput: 38.51 Mbit/s
95th percentile per-packet one-way delay: 179.684 ms
Loss rate: 2.98%
-- Flow 3:
Average throughput: 28.09 Mbit/s
95th percentile per-packet one-way delay: 297.763 ms
Loss rate: 0.00%
```

Run 5: Report of Verus — Data Link



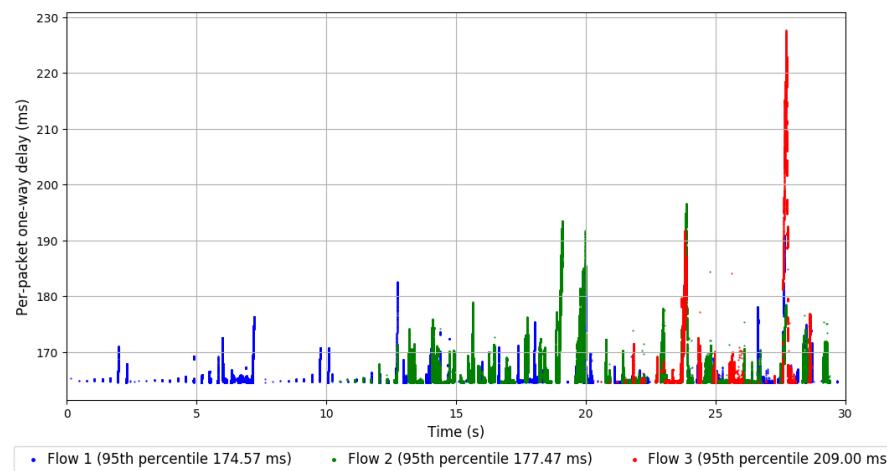
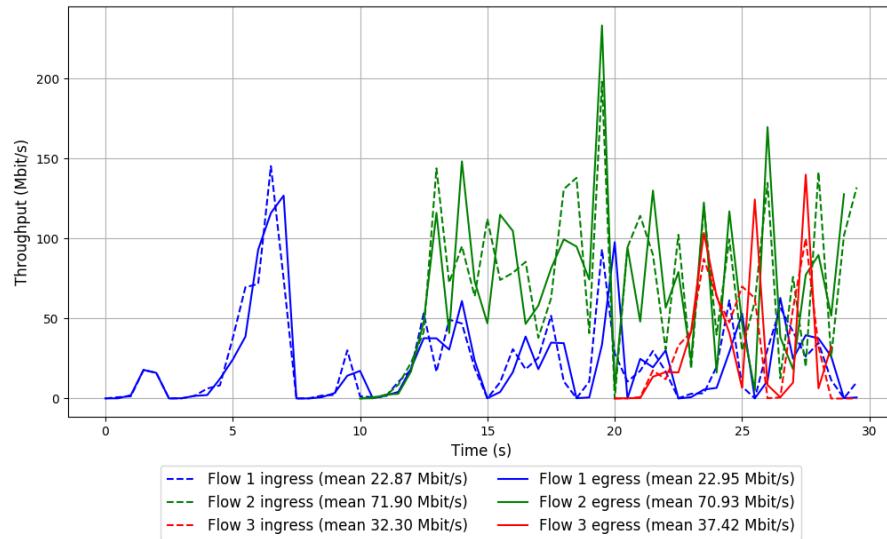
Run 6: Statistics of Verus

Start at: 2017-09-08 12:07:37

End at: 2017-09-08 12:08:07

```
# Below is generated by plot.py at 2017-09-08 16:19:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 79.66 Mbit/s
95th percentile per-packet one-way delay: 179.444 ms
Loss rate: 2.92%
-- Flow 1:
Average throughput: 22.95 Mbit/s
95th percentile per-packet one-way delay: 174.573 ms
Loss rate: 0.70%
-- Flow 2:
Average throughput: 70.93 Mbit/s
95th percentile per-packet one-way delay: 177.468 ms
Loss rate: 4.62%
-- Flow 3:
Average throughput: 37.42 Mbit/s
95th percentile per-packet one-way delay: 208.995 ms
Loss rate: 0.01%
```

Run 6: Report of Verus — Data Link



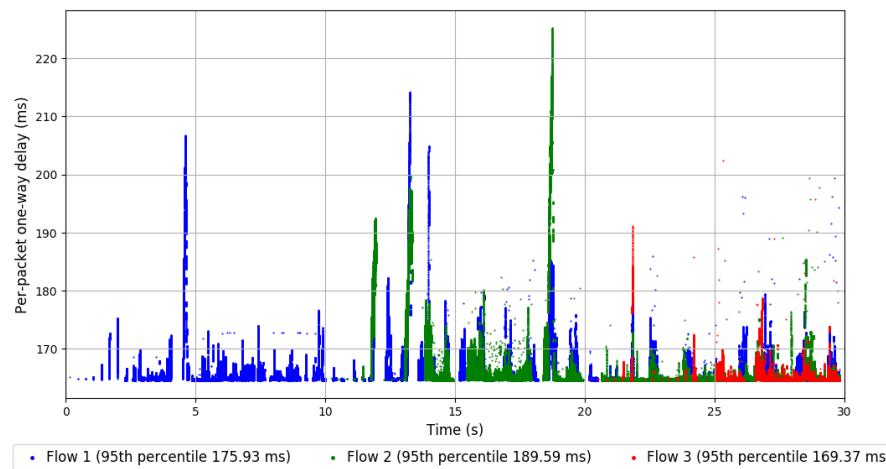
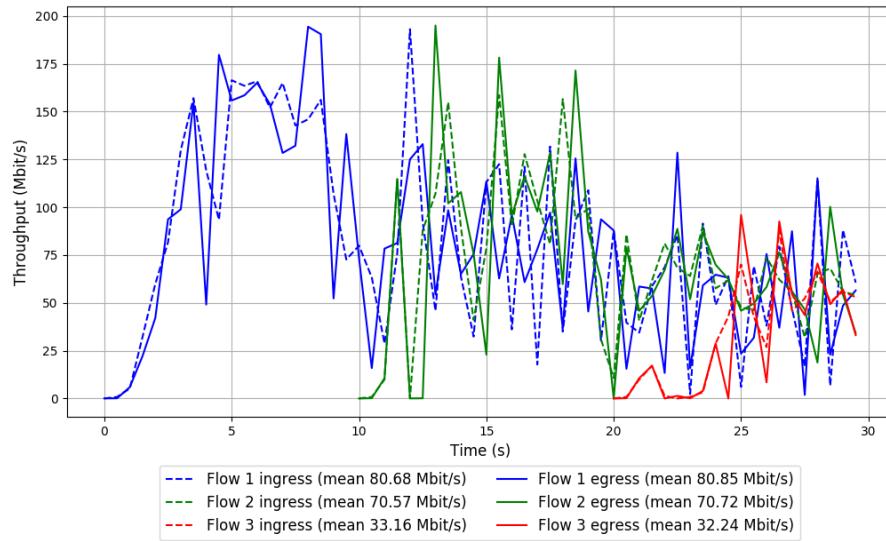
Run 7: Statistics of Verus

Start at: 2017-09-08 12:20:49

End at: 2017-09-08 12:21:19

```
# Below is generated by plot.py at 2017-09-08 16:20:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 137.94 Mbit/s
95th percentile per-packet one-way delay: 180.905 ms
Loss rate: 1.43%
-- Flow 1:
Average throughput: 80.85 Mbit/s
95th percentile per-packet one-way delay: 175.930 ms
Loss rate: 0.91%
-- Flow 2:
Average throughput: 70.72 Mbit/s
95th percentile per-packet one-way delay: 189.586 ms
Loss rate: 1.31%
-- Flow 3:
Average throughput: 32.24 Mbit/s
95th percentile per-packet one-way delay: 169.366 ms
Loss rate: 5.77%
```

Run 7: Report of Verus — Data Link



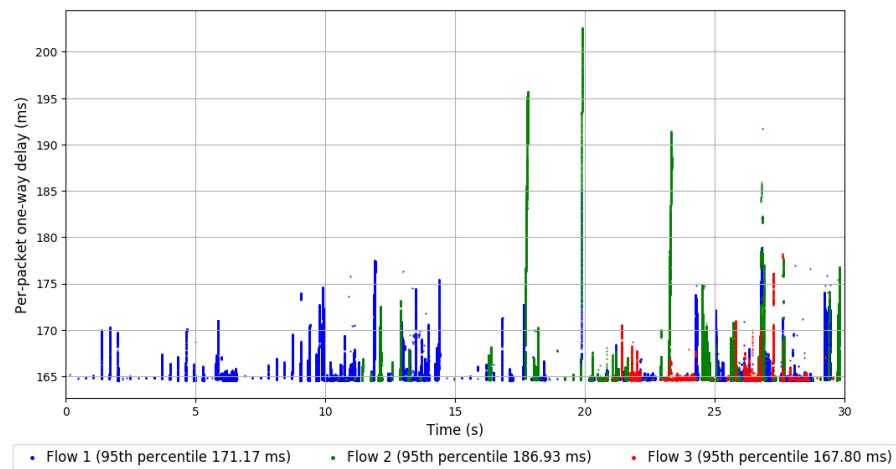
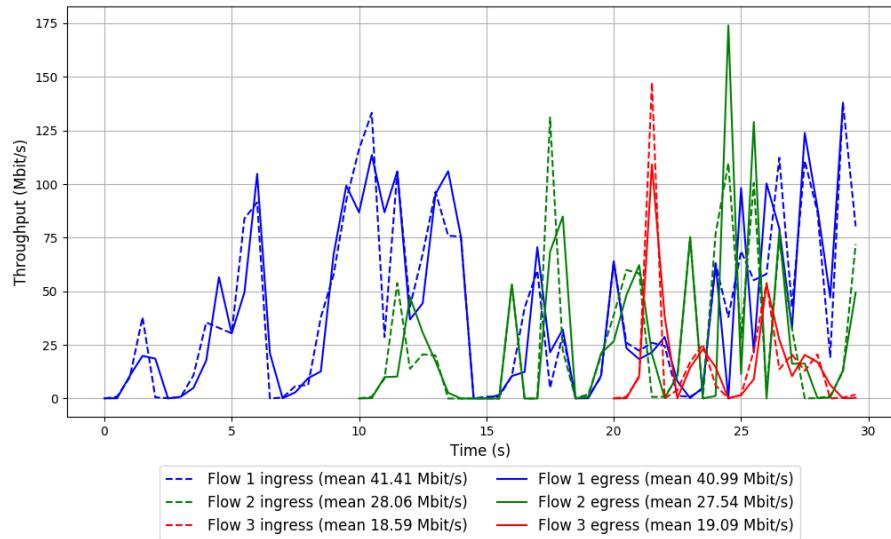
Run 8: Statistics of Verus

Start at: 2017-09-08 12:34:20

End at: 2017-09-08 12:34:50

```
# Below is generated by plot.py at 2017-09-08 16:20:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 173.549 ms
Loss rate: 2.65%
-- Flow 1:
Average throughput: 40.99 Mbit/s
95th percentile per-packet one-way delay: 171.169 ms
Loss rate: 3.24%
-- Flow 2:
Average throughput: 27.54 Mbit/s
95th percentile per-packet one-way delay: 186.931 ms
Loss rate: 2.04%
-- Flow 3:
Average throughput: 19.09 Mbit/s
95th percentile per-packet one-way delay: 167.801 ms
Loss rate: 0.51%
```

Run 8: Report of Verus — Data Link



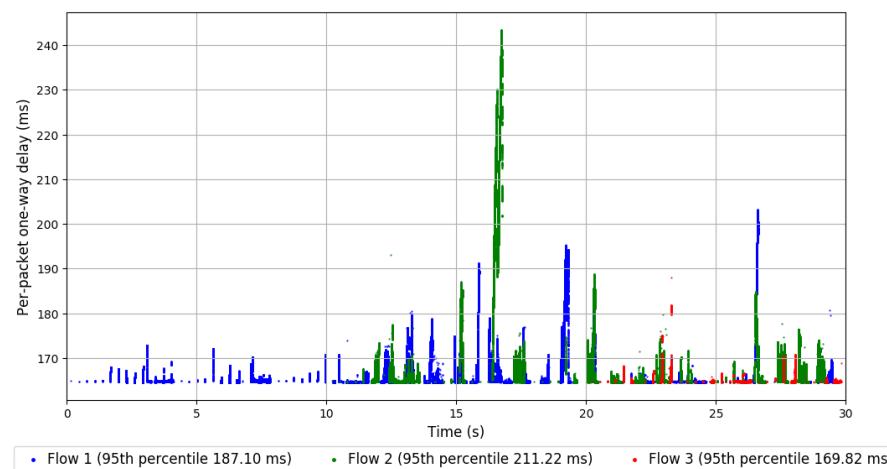
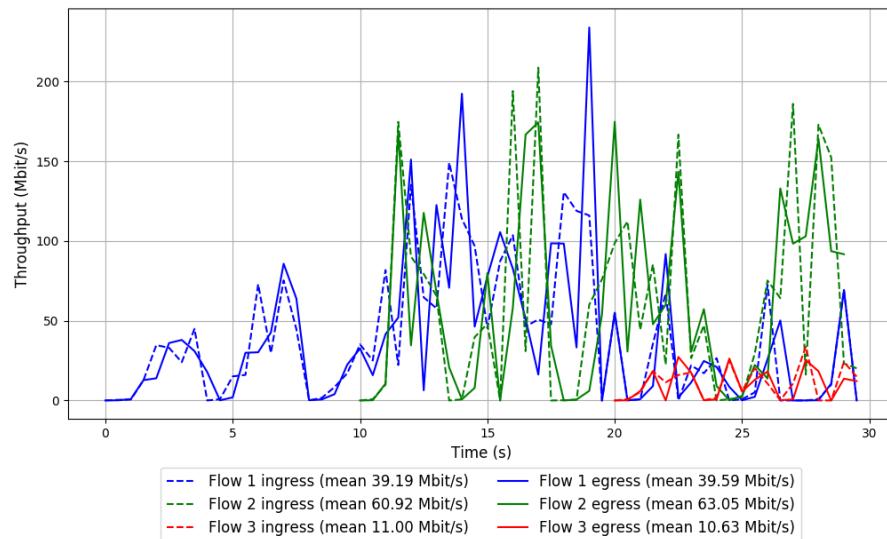
Run 9: Statistics of Verus

Start at: 2017-09-08 12:47:35

End at: 2017-09-08 12:48:05

```
# Below is generated by plot.py at 2017-09-08 16:20:07
# Datalink statistics
-- Total of 3 flows:
Average throughput: 83.55 Mbit/s
95th percentile per-packet one-way delay: 190.859 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 39.59 Mbit/s
95th percentile per-packet one-way delay: 187.097 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 63.05 Mbit/s
95th percentile per-packet one-way delay: 211.223 ms
Loss rate: 0.83%
-- Flow 3:
Average throughput: 10.63 Mbit/s
95th percentile per-packet one-way delay: 169.816 ms
Loss rate: 6.09%
```

Run 9: Report of Verus — Data Link



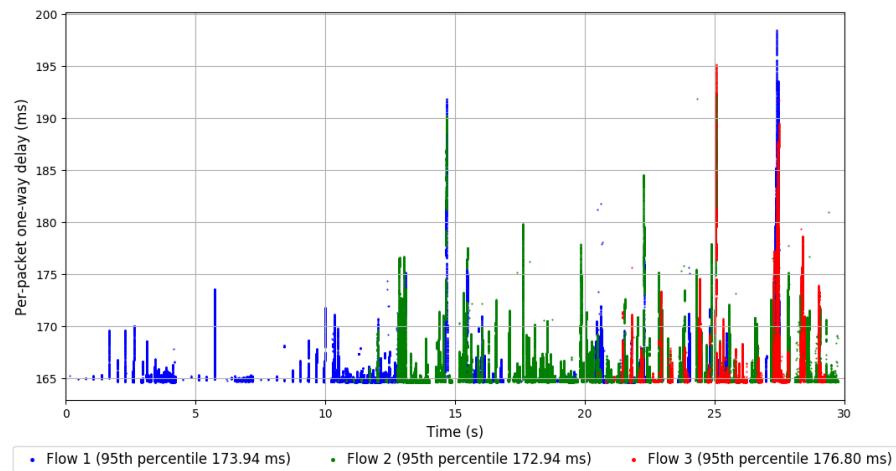
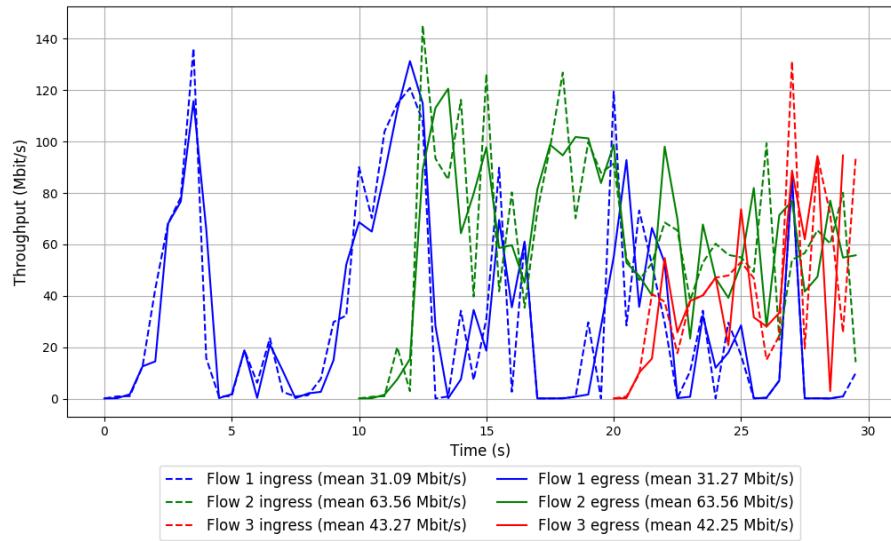
Run 10: Statistics of Verus

Start at: 2017-09-08 13:00:56

End at: 2017-09-08 13:01:26

```
# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 85.91 Mbit/s
95th percentile per-packet one-way delay: 174.200 ms
Loss rate: 2.00%
-- Flow 1:
Average throughput: 31.27 Mbit/s
95th percentile per-packet one-way delay: 173.941 ms
Loss rate: 0.54%
-- Flow 2:
Average throughput: 63.56 Mbit/s
95th percentile per-packet one-way delay: 172.943 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 42.25 Mbit/s
95th percentile per-packet one-way delay: 176.801 ms
Loss rate: 10.95%
```

Run 10: Report of Verus — Data Link

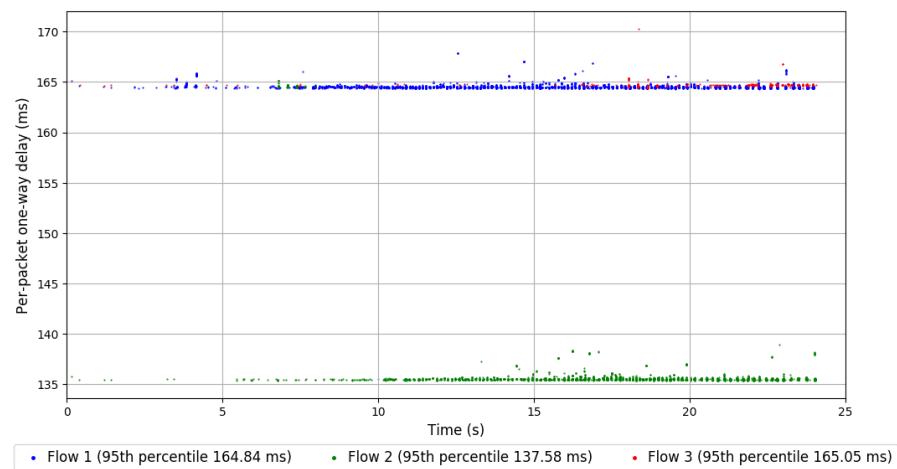
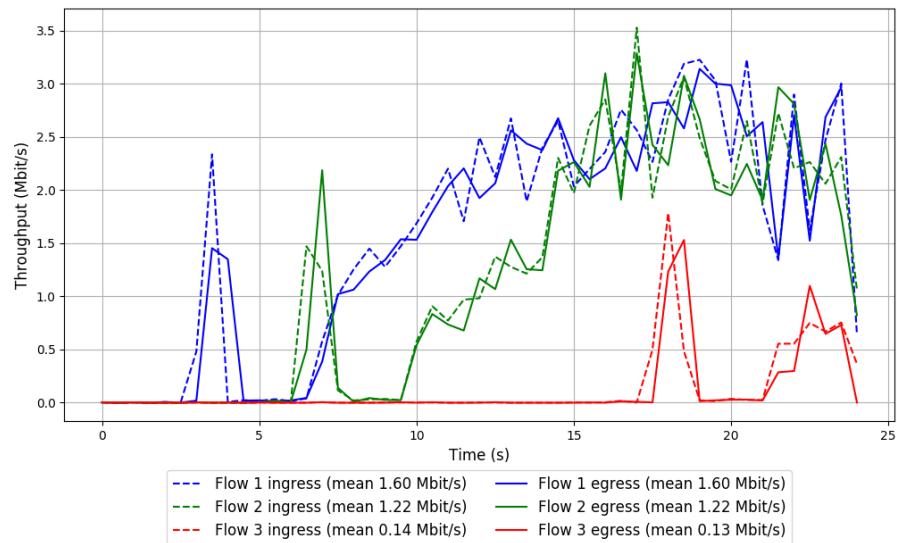


Run 1: Statistics of WebRTC media

Start at: 2017-09-08 11:05:26

End at: 2017-09-08 11:05:56

Run 1: Report of WebRTC media — Data Link



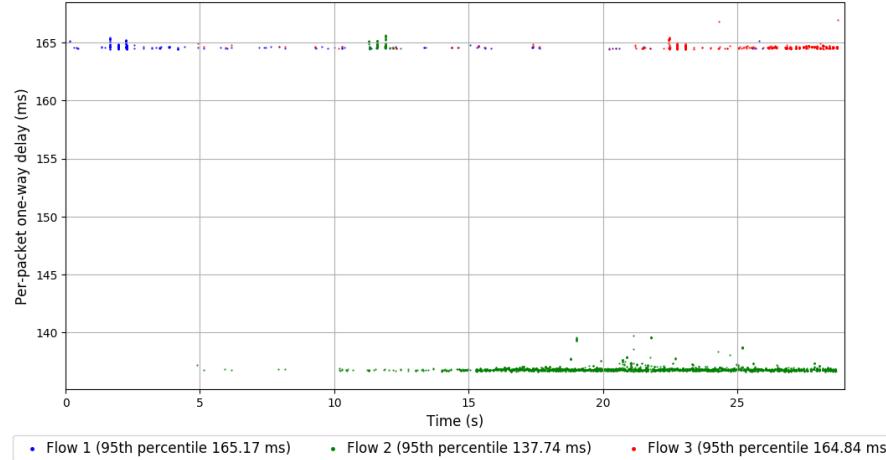
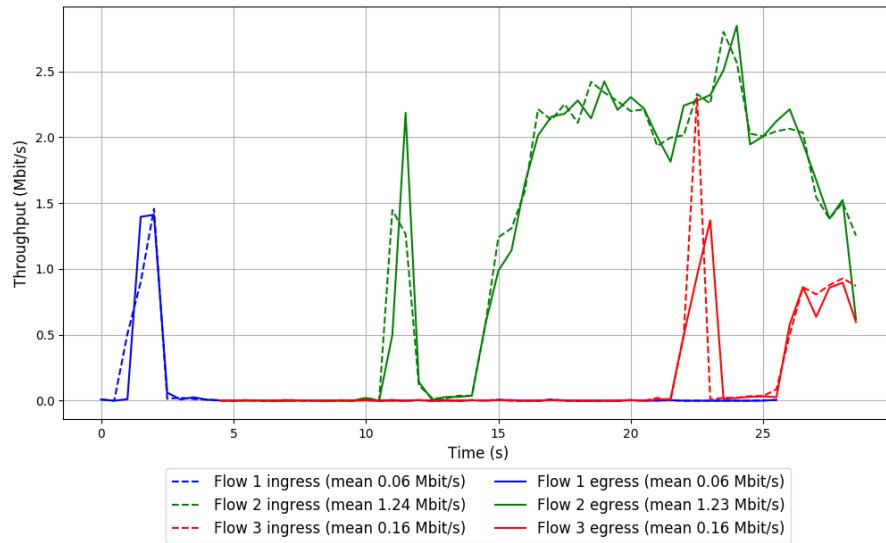
Run 2: Statistics of WebRTC media

Start at: 2017-09-08 11:19:21

End at: 2017-09-08 11:19:51

```
# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.21 Mbit/s
95th percentile per-packet one-way delay: 164.707 ms
Loss rate: 1.98%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.171 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.23 Mbit/s
95th percentile per-packet one-way delay: 137.741 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 164.842 ms
Loss rate: 6.27%
```

Run 2: Report of WebRTC media — Data Link

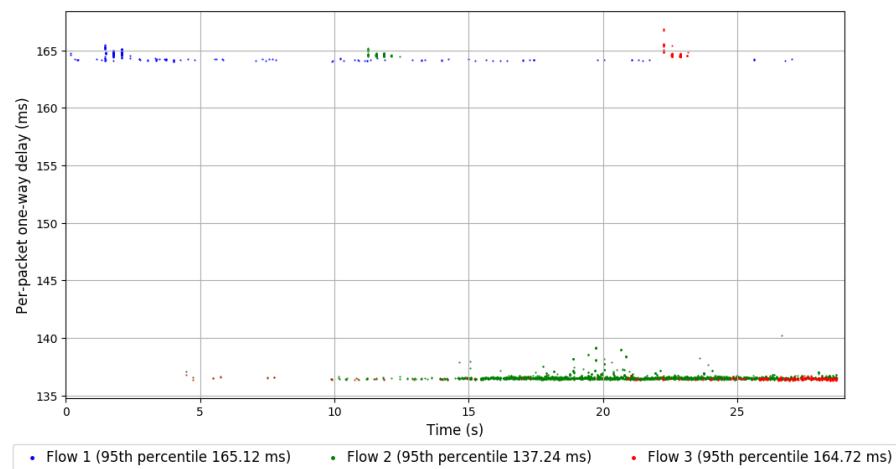
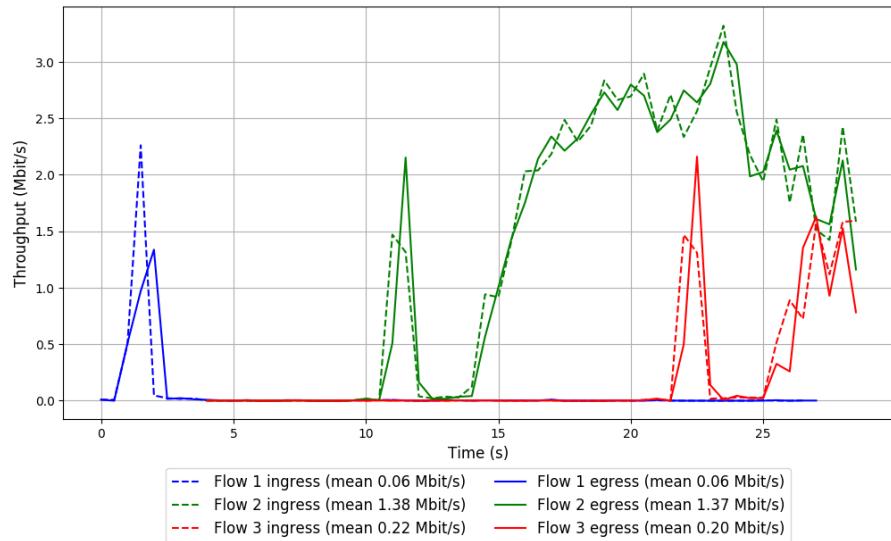


```
Run 3: Statistics of WebRTC media

Start at: 2017-09-08 11:33:19
End at: 2017-09-08 11:33:49

# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.38 Mbit/s
95th percentile per-packet one-way delay: 164.618 ms
Loss rate: 2.83%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.120 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 137.242 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.20 Mbit/s
95th percentile per-packet one-way delay: 164.715 ms
Loss rate: 10.99%
```

Run 3: Report of WebRTC media — Data Link



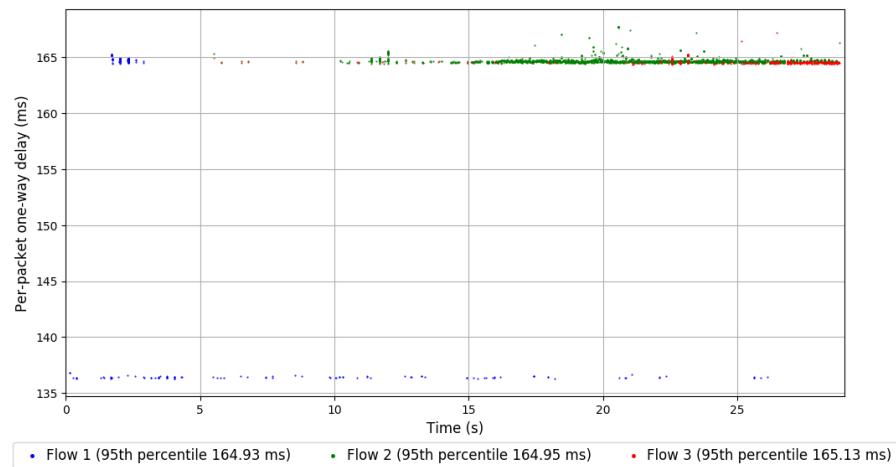
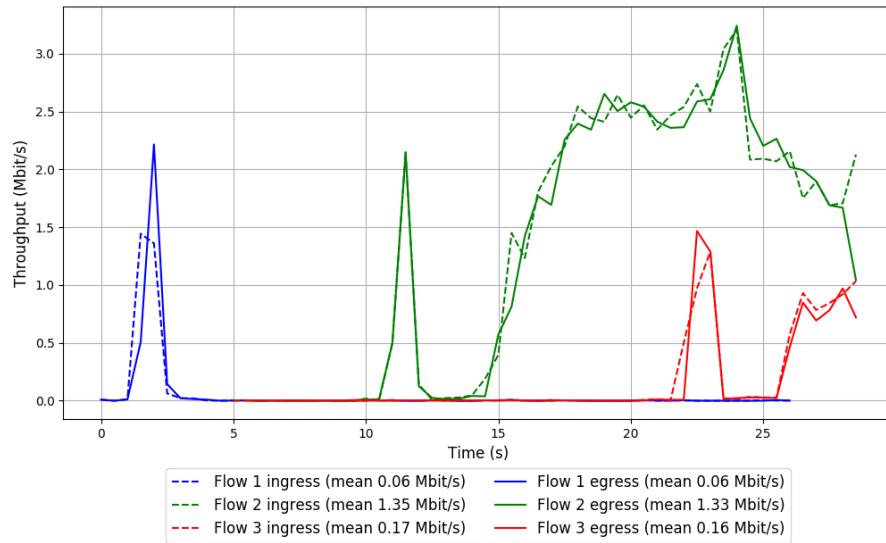
Run 4: Statistics of WebRTC media

Start at: 2017-09-08 11:47:21

End at: 2017-09-08 11:47:51

```
# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.27 Mbit/s
95th percentile per-packet one-way delay: 164.973 ms
Loss rate: 2.90%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 164.933 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 164.948 ms
Loss rate: 2.43%
-- Flow 3:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 165.134 ms
Loss rate: 7.74%
```

Run 4: Report of WebRTC media — Data Link

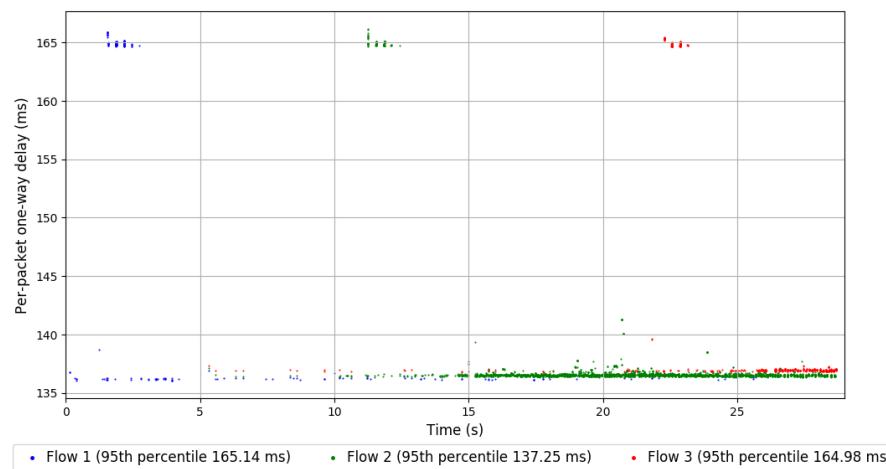
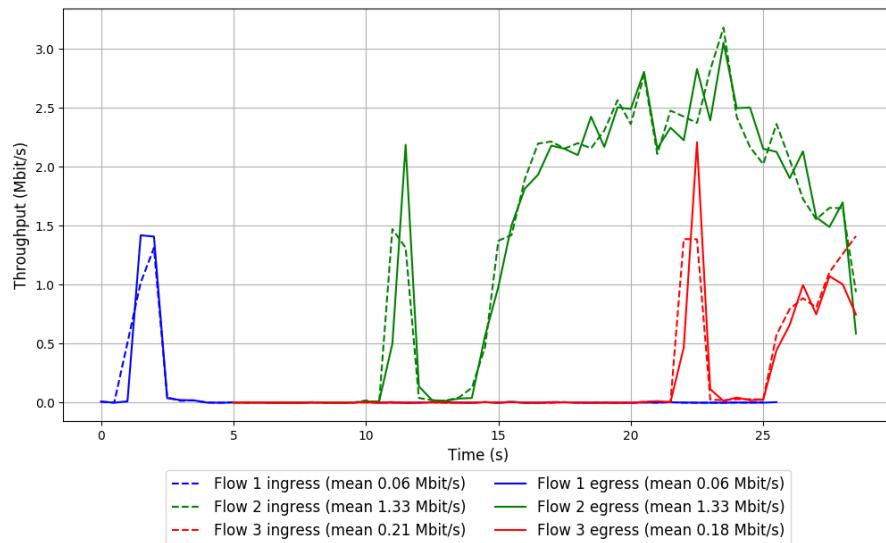


```
Run 5: Statistics of WebRTC media

Start at: 2017-09-08 12:00:48
End at: 2017-09-08 12:01:18

# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.29 Mbit/s
95th percentile per-packet one-way delay: 164.822 ms
Loss rate: 2.69%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.142 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 137.255 ms
Loss rate: 1.36%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 164.983 ms
Loss rate: 12.02%
```

Run 5: Report of WebRTC media — Data Link

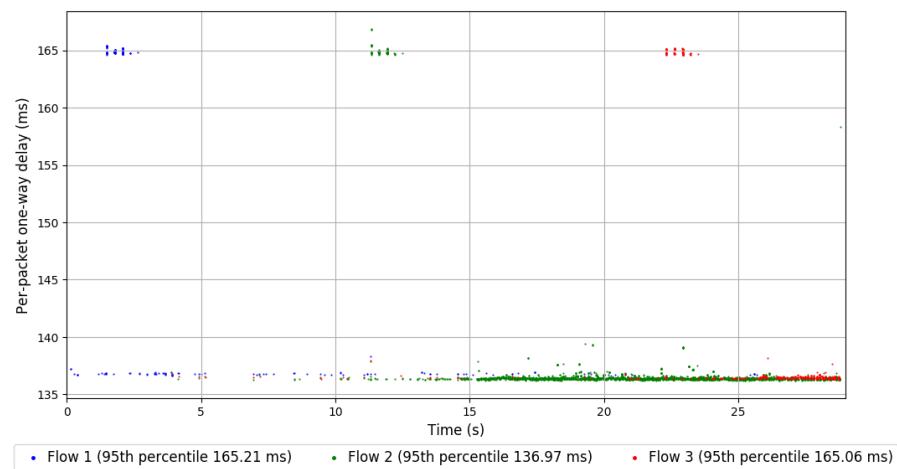
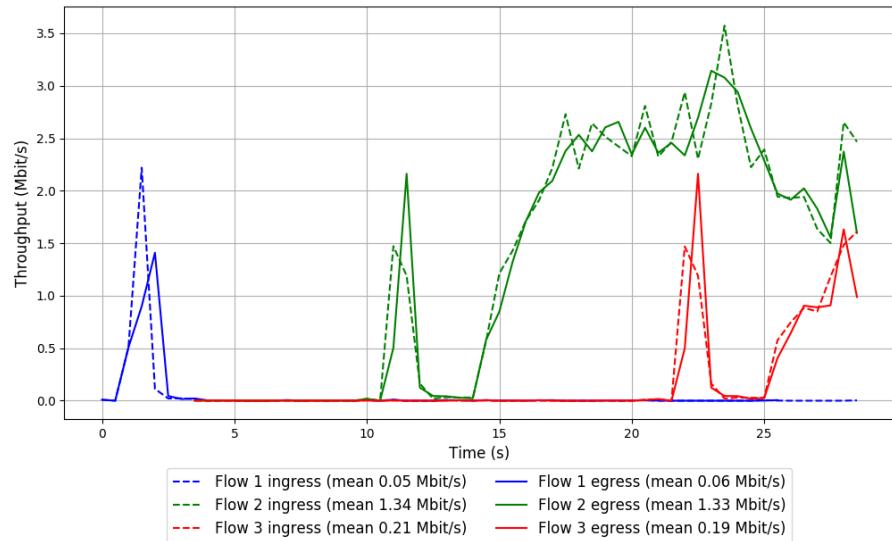


```
Run 6: Statistics of WebRTC media

Start at: 2017-09-08 12:13:59
End at: 2017-09-08 12:14:29

# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.37 Mbit/s
95th percentile per-packet one-way delay: 164.784 ms
Loss rate: 3.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.210 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 136.971 ms
Loss rate: 2.17%
-- Flow 3:
Average throughput: 0.19 Mbit/s
95th percentile per-packet one-way delay: 165.061 ms
Loss rate: 9.38%
```

Run 6: Report of WebRTC media — Data Link



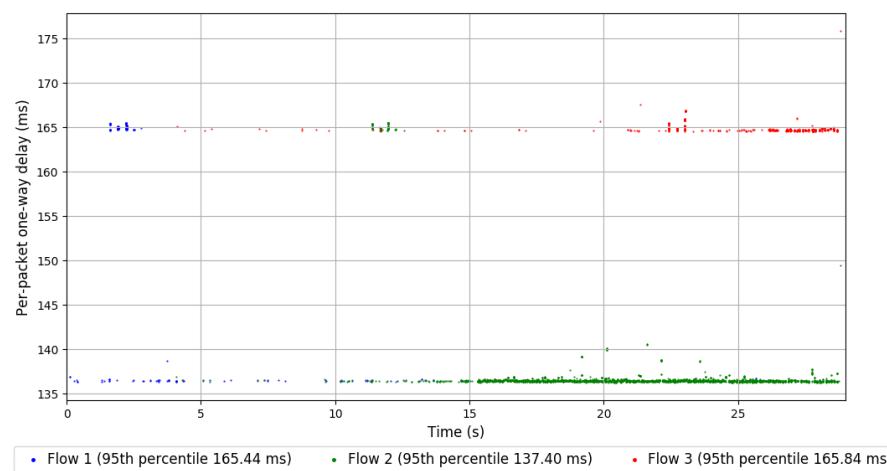
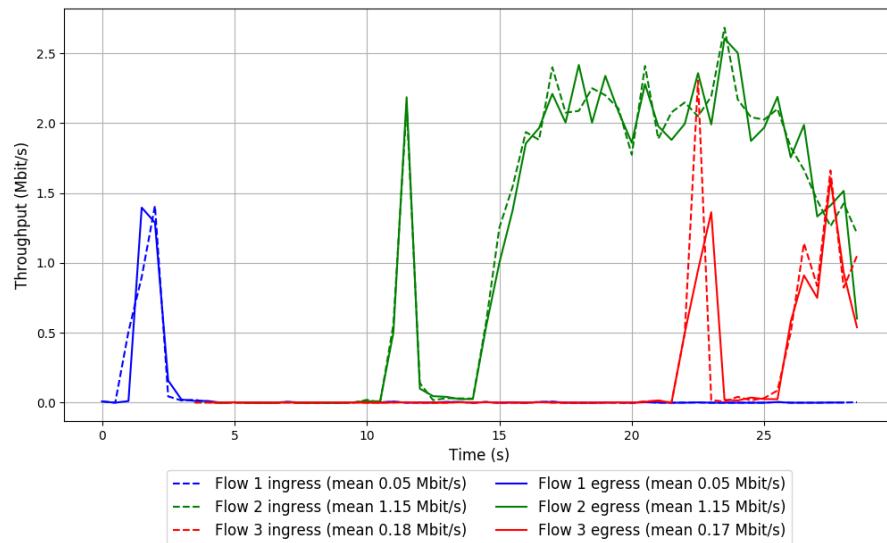
Run 7: Statistics of WebRTC media

Start at: 2017-09-08 12:27:19

End at: 2017-09-08 12:27:49

```
# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.19 Mbit/s
95th percentile per-packet one-way delay: 164.937 ms
Loss rate: 2.33%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 165.443 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.15 Mbit/s
95th percentile per-packet one-way delay: 137.400 ms
Loss rate: 1.46%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 165.841 ms
Loss rate: 8.58%
```

Run 7: Report of WebRTC media — Data Link

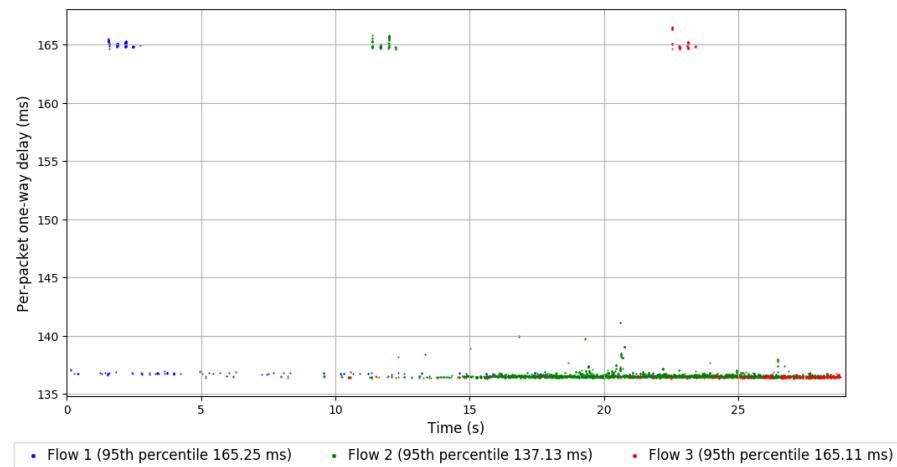
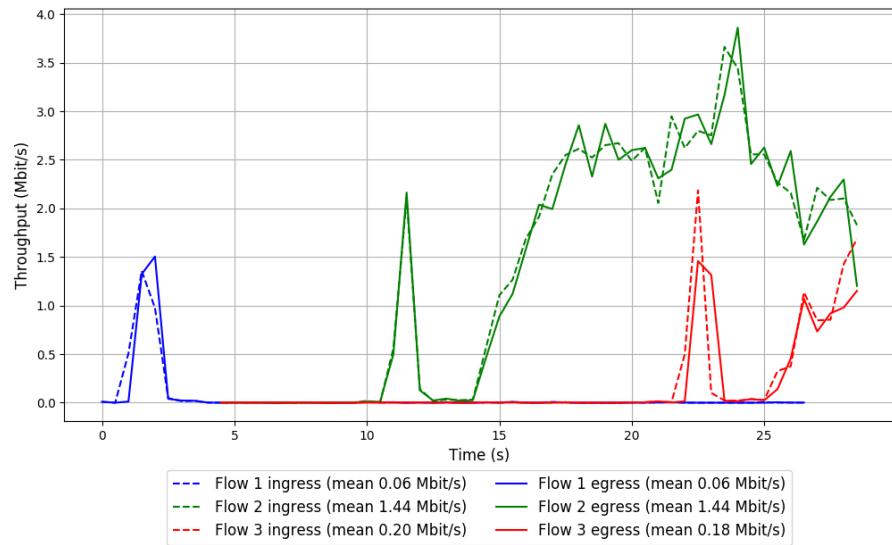


```
Run 8: Statistics of WebRTC media

Start at: 2017-09-08 12:40:39
End at: 2017-09-08 12:41:09

# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.40 Mbit/s
95th percentile per-packet one-way delay: 164.883 ms
Loss rate: 2.86%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.252 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.44 Mbit/s
95th percentile per-packet one-way delay: 137.130 ms
Loss rate: 1.63%
-- Flow 3:
Average throughput: 0.18 Mbit/s
95th percentile per-packet one-way delay: 165.112 ms
Loss rate: 12.68%
```

Run 8: Report of WebRTC media — Data Link

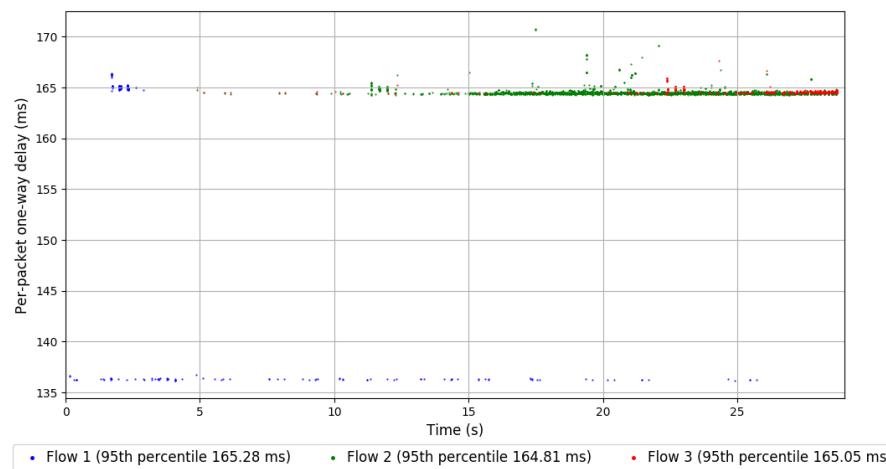
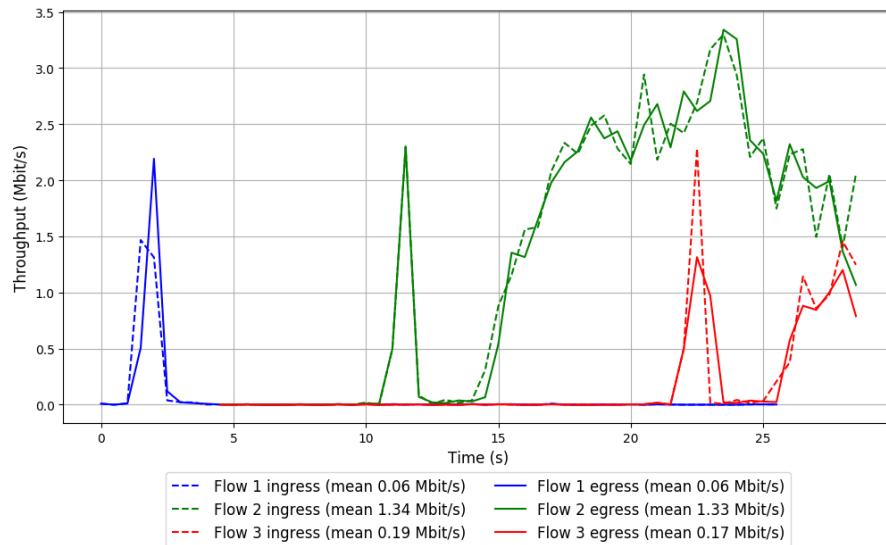


```
Run 9: Statistics of WebRTC media

Start at: 2017-09-08 12:54:02
End at: 2017-09-08 12:54:32

# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 165.003 ms
Loss rate: 3.18%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.275 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 1.33 Mbit/s
95th percentile per-packet one-way delay: 164.812 ms
Loss rate: 2.28%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 165.052 ms
Loss rate: 10.49%
```

Run 9: Report of WebRTC media — Data Link



```
Run 10: Statistics of WebRTC media

Start at: 2017-09-08 13:07:22
End at: 2017-09-08 13:07:52

# Below is generated by plot.py at 2017-09-08 16:20:25
# Datalink statistics
-- Total of 3 flows:
Average throughput: 1.30 Mbit/s
95th percentile per-packet one-way delay: 164.904 ms
Loss rate: 2.09%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 165.178 ms
Loss rate: 0.10%
-- Flow 2:
Average throughput: 1.28 Mbit/s
95th percentile per-packet one-way delay: 138.087 ms
Loss rate: 1.57%
-- Flow 3:
Average throughput: 0.17 Mbit/s
95th percentile per-packet one-way delay: 166.544 ms
Loss rate: 6.50%
```

Run 10: Report of WebRTC media — Data Link

