

Pantheon Report

Generated at 2019-01-22 06:52:55 (UTC).
Data path: Saudi Arabia on `enp2s0` (*remote*) → AWS India 2 on `ens5` (*local*).
Repeated the test of 21 congestion control schemes 5 times.
Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.
NTP offsets were measured against `nets.org.sg` and have been applied to correct the timestamps in logs.

System info:

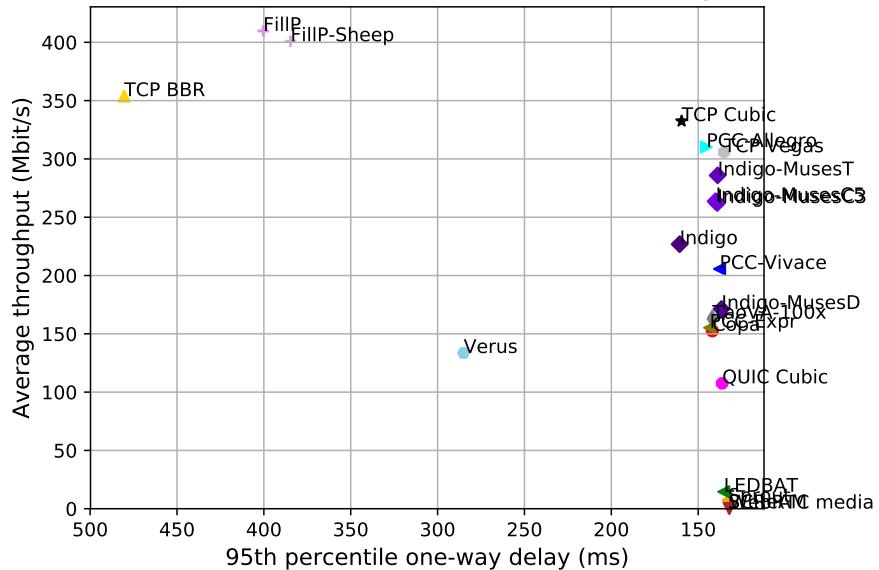
```
Linux 4.15.0-1031-aws
net.core.default_qdisc = fq
net.core.rmem_default = 16777216
net.core.rmem_max = 536870912
net.core.wmem_default = 16777216
net.core.wmem_max = 536870912
net.ipv4.tcp_rmem = 4096 16777216 536870912
net.ipv4.tcp_wmem = 4096 16777216 536870912
```

Git summary:

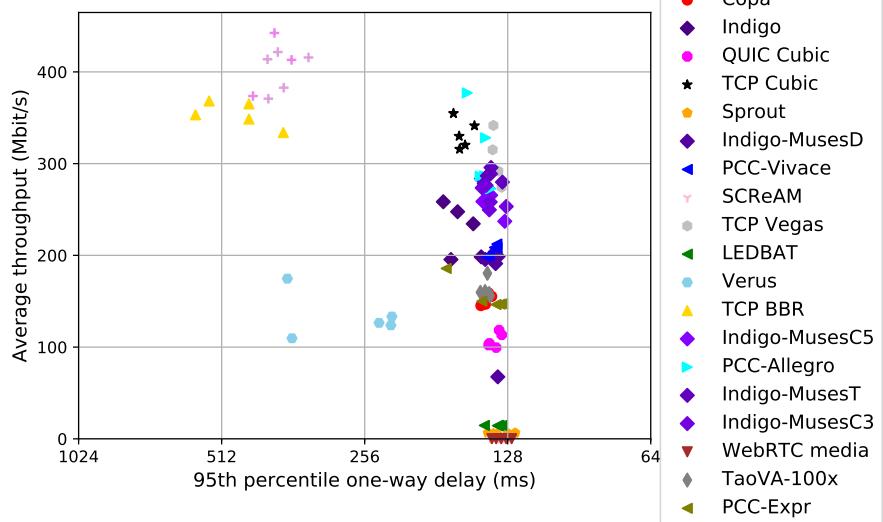
```
branch: muses @ 89d24e57783e7fbfec537a619071de937b639e38
third_party/fillp @ d6da1459332fcee56963885d7eba17e6a32d4519
third_party/fillp-sheep @ 0e5bb722943babcd2b090d2c64fcd45e12e923f9
third_party/genericCC @ d0153f8e594aa89e93b032143cedbdf58e562f4
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/muses @ 1ddcff131048c6962f123bcd22b4d166a422adde
third_party/pantheon-tunnel @ f866d3f58d27af942717625ee3a354cc2e802bd
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quic @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
M src/ScreamClient
M src/ScreamServer
third_party/sprout @ 366e35c6178b01e31d4a46ad18c74f9415f19a26
M src/examples/cellsim.cc
M src/examples/sproutbt2.cc
M src/network/sproutconn.cc
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
```

third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851

test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
3 flows with 10s interval between flows (mean of all runs by scheme)



test from Saudi Arabia to AWS India 2, 5 runs of 30s each per scheme
3 flows with 10s interval between flows



↳

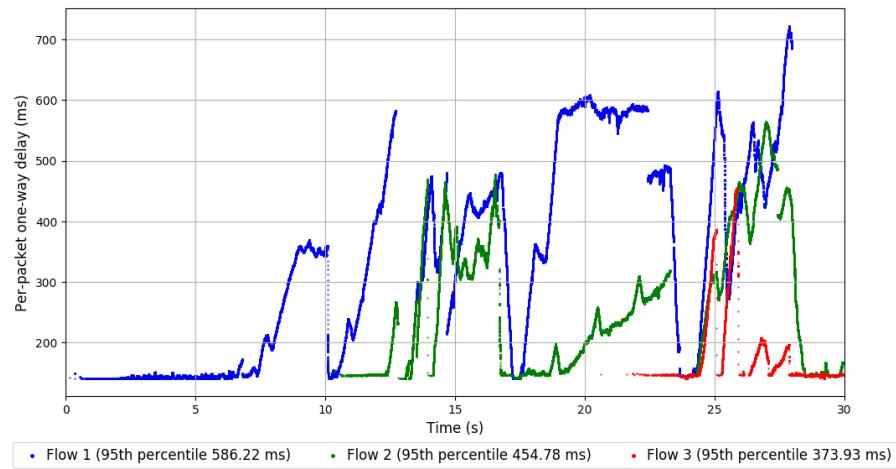
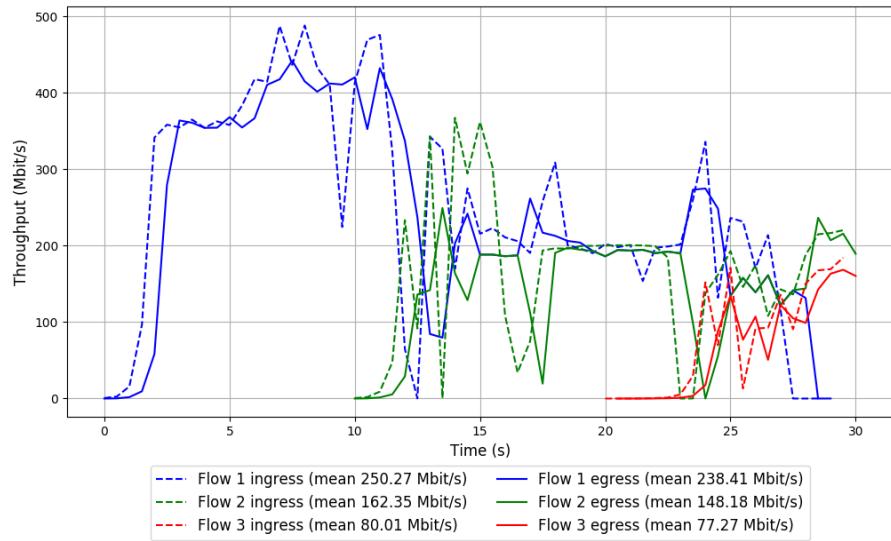
scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	5	240.10	172.89	64.63	487.98	414.96	295.94	3.35	4.52	14.16
Copa	5	91.99	67.31	49.16	142.29	140.75	142.56	0.44	0.93	2.54
TCP Cubic	5	200.77	143.29	118.24	150.70	177.75	206.08	0.39	0.86	2.53
FillP	3	241.27	187.41	138.51	419.07	365.88	288.12	3.69	8.10	17.18
FillP-Sheep	5	258.73	160.78	117.37	389.22	335.70	392.00	2.26	6.31	11.57
Indigo	5	106.67	131.75	101.32	153.75	162.40	174.04	0.80	1.19	2.74
Indigo-MusesC3	5	190.46	102.18	41.76	138.73	139.02	136.89	0.20	1.45	5.16
Indigo-MusesC5	5	216.86	51.27	58.06	140.38	136.08	136.50	0.26	1.83	3.74
Indigo-MusesD	5	155.53	23.21	5.05	136.64	135.41	134.12	0.25	0.49	3.70
Indigo-MusesT	5	208.91	97.97	63.04	138.70	138.20	139.04	0.30	1.06	4.19
LEDBAT	5	9.41	6.28	2.95	134.93	134.87	135.33	1.31	1.95	4.03
PCC-Allegro	5	262.19	60.56	24.43	145.66	141.68	142.08	0.70	1.04	2.03
PCC-Expr	5	138.14	22.36	7.10	145.02	136.87	137.56	0.69	1.07	1.99
QUIC Cubic	5	52.09	57.12	53.72	135.45	135.94	135.48	0.60	0.70	1.84
SCReAM	5	0.22	0.22	0.22	131.78	132.73	132.32	0.64	1.03	1.83
Sprout	5	2.96	3.25	2.26	131.79	132.81	132.43	0.82	1.32	2.83
TaoVA-100x	5	101.96	69.24	46.01	141.26	141.77	142.44	0.46	1.10	1.68
TCP Vegas	4	213.09	99.72	80.74	134.84	134.41	135.31	0.43	0.96	2.32
Verus	5	89.25	48.99	37.38	289.00	259.49	292.21	1.91	8.03	10.25
PCC-Vivace	5	172.65	38.94	22.14	137.39	138.05	137.88	0.57	1.32	4.00
WebRTC media	5	0.05	0.05	0.05	132.79	132.47	133.22	0.03	0.01	0.02

Run 1: Statistics of TCP BBR

```
Start at: 2019-01-22 02:28:32
End at: 2019-01-22 02:29:02
Local clock offset: 1.762 ms
Remote clock offset: -45.852 ms

# Below is generated by plot.py at 2019-01-22 06:25:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 353.25 Mbit/s
95th percentile per-packet one-way delay: 581.144 ms
Loss rate: 6.20%
-- Flow 1:
Average throughput: 238.41 Mbit/s
95th percentile per-packet one-way delay: 586.217 ms
Loss rate: 4.73%
-- Flow 2:
Average throughput: 148.18 Mbit/s
95th percentile per-packet one-way delay: 454.783 ms
Loss rate: 9.64%
-- Flow 3:
Average throughput: 77.27 Mbit/s
95th percentile per-packet one-way delay: 373.927 ms
Loss rate: 5.51%
```

Run 1: Report of TCP BBR — Data Link

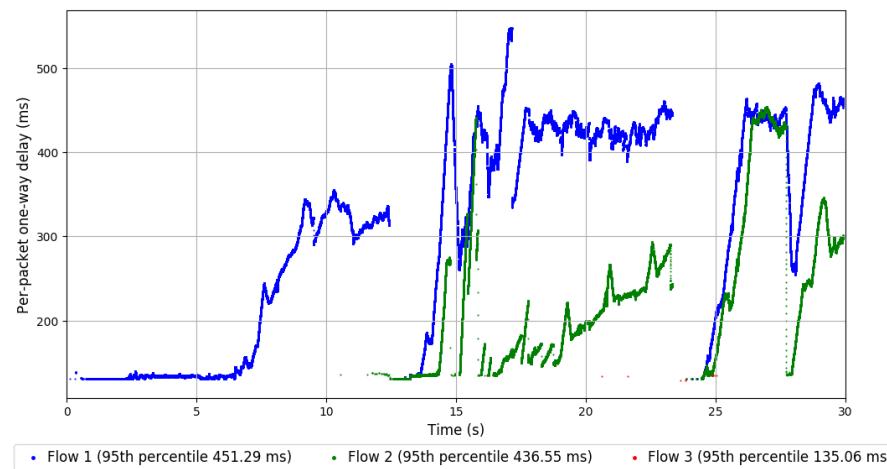
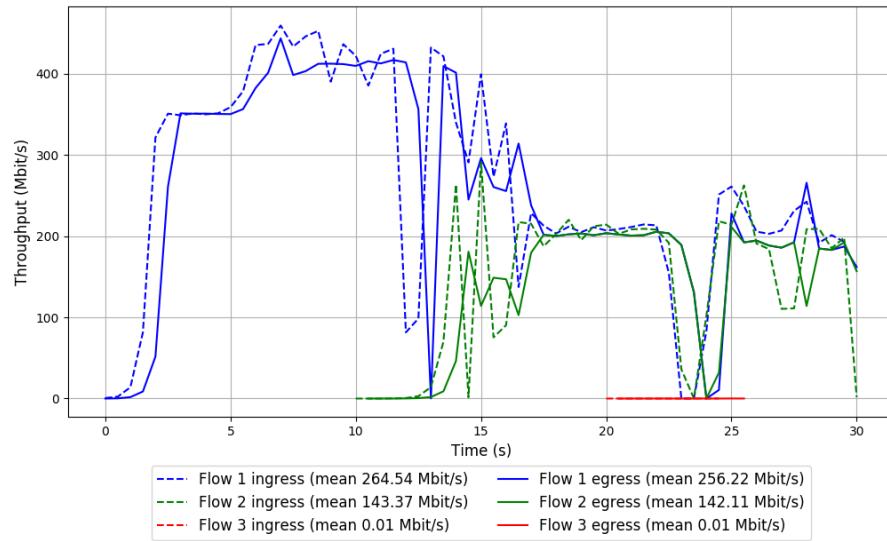


Run 2: Statistics of TCP BBR

```
Start at: 2019-01-22 03:14:58
End at: 2019-01-22 03:15:28
Local clock offset: -3.292 ms
Remote clock offset: -38.078 ms

# Below is generated by plot.py at 2019-01-22 06:25:33
# Datalink statistics
-- Total of 3 flows:
Average throughput: 348.59 Mbit/s
95th percentile per-packet one-way delay: 448.494 ms
Loss rate: 3.82%
-- Flow 1:
Average throughput: 256.22 Mbit/s
95th percentile per-packet one-way delay: 451.291 ms
Loss rate: 3.79%
-- Flow 2:
Average throughput: 142.11 Mbit/s
95th percentile per-packet one-way delay: 436.548 ms
Loss rate: 3.90%
-- Flow 3:
Average throughput: 0.01 Mbit/s
95th percentile per-packet one-way delay: 135.062 ms
Loss rate: 0.00%
```

Run 2: Report of TCP BBR — Data Link

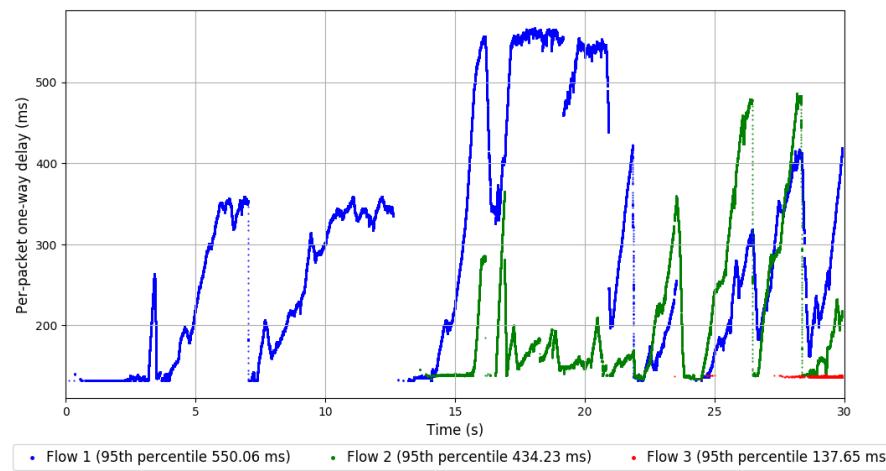
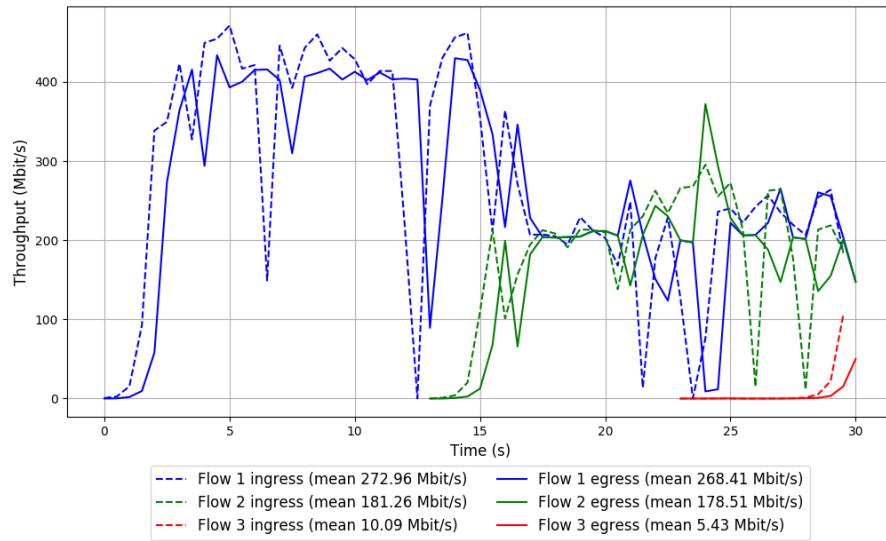


Run 3: Statistics of TCP BBR

```
Start at: 2019-01-22 03:46:08
End at: 2019-01-22 03:46:38
Local clock offset: -0.331 ms
Remote clock offset: -40.665 ms

# Below is generated by plot.py at 2019-01-22 06:25:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 368.31 Mbit/s
95th percentile per-packet one-way delay: 544.010 ms
Loss rate: 2.70%
-- Flow 1:
Average throughput: 268.41 Mbit/s
95th percentile per-packet one-way delay: 550.063 ms
Loss rate: 2.32%
-- Flow 2:
Average throughput: 178.51 Mbit/s
95th percentile per-packet one-way delay: 434.228 ms
Loss rate: 2.73%
-- Flow 3:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 137.652 ms
Loss rate: 47.86%
```

Run 3: Report of TCP BBR — Data Link

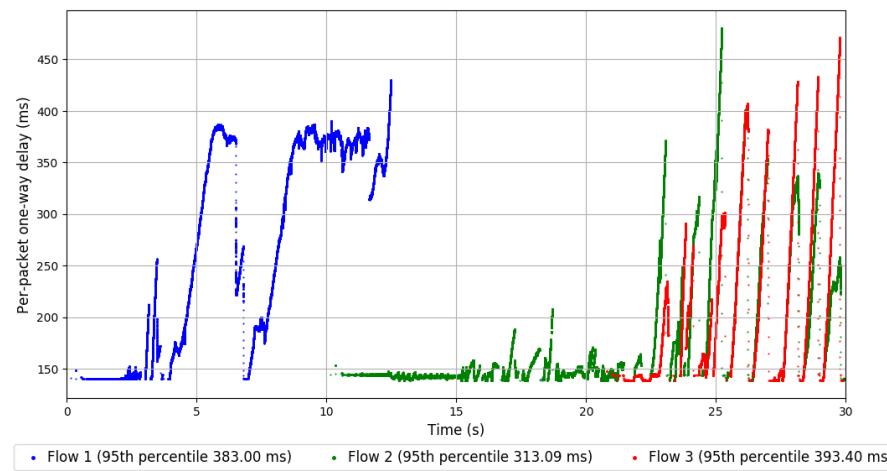
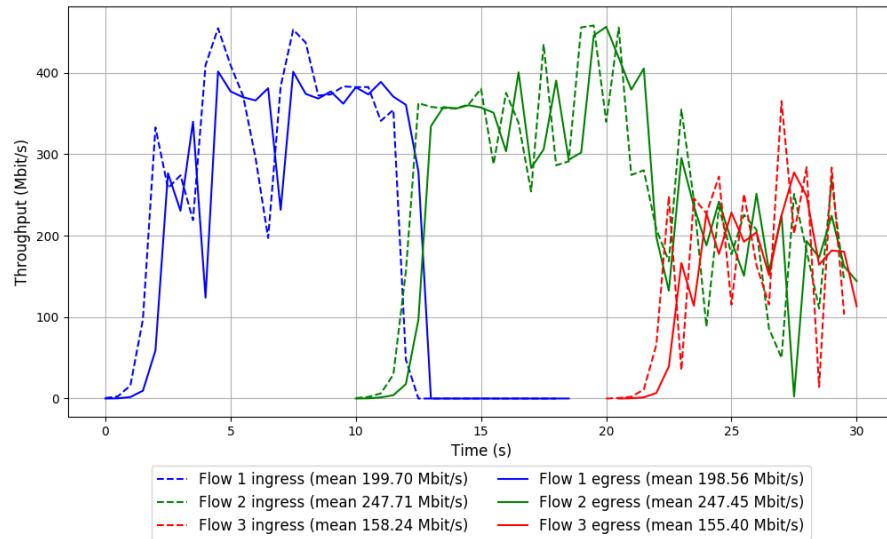


Run 4: Statistics of TCP BBR

```
Start at: 2019-01-22 04:27:44
End at: 2019-01-22 04:28:14
Local clock offset: 1.819 ms
Remote clock offset: -45.134 ms

# Below is generated by plot.py at 2019-01-22 06:25:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 333.88 Mbit/s
95th percentile per-packet one-way delay: 379.628 ms
Loss rate: 1.28%
-- Flow 1:
Average throughput: 198.56 Mbit/s
95th percentile per-packet one-way delay: 383.003 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 247.45 Mbit/s
95th percentile per-packet one-way delay: 313.089 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 155.40 Mbit/s
95th percentile per-packet one-way delay: 393.403 ms
Loss rate: 3.55%
```

Run 4: Report of TCP BBR — Data Link

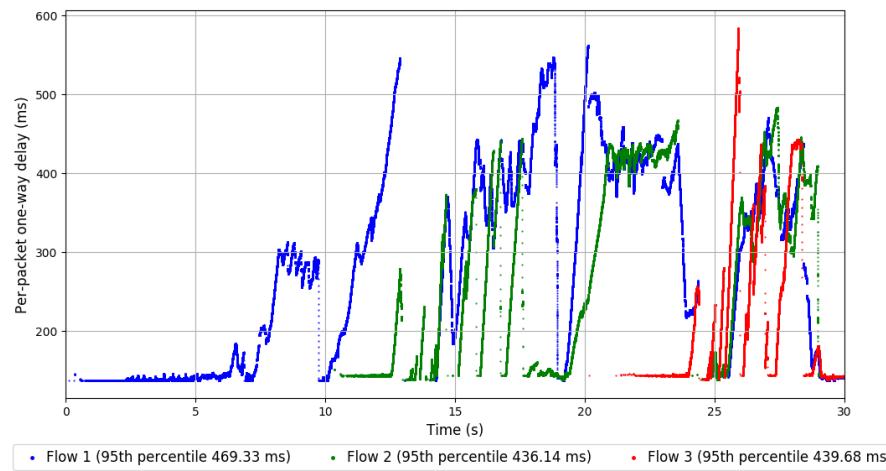
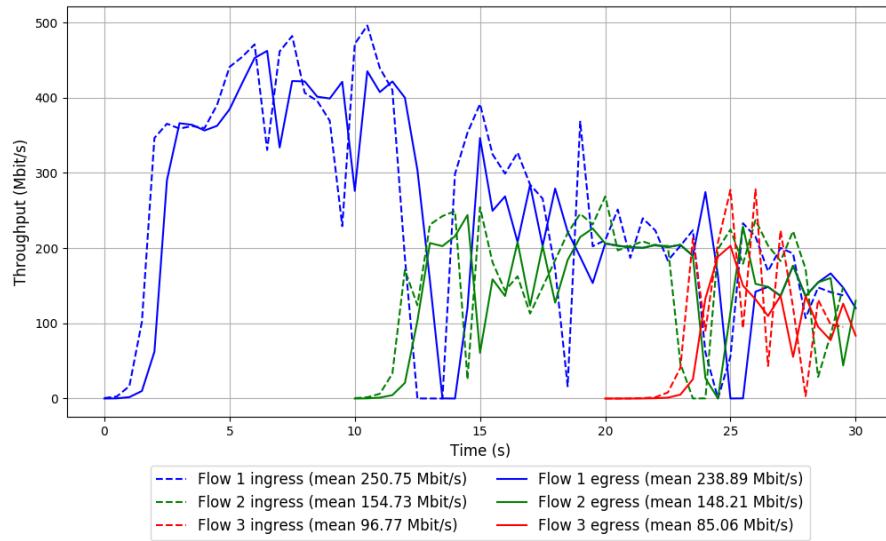


Run 5: Statistics of TCP BBR

```
Start at: 2019-01-22 05:29:52
End at: 2019-01-22 05:30:22
Local clock offset: -1.9 ms
Remote clock offset: -47.796 ms

# Below is generated by plot.py at 2019-01-22 06:25:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 365.12 Mbit/s
95th percentile per-packet one-way delay: 448.550 ms
Loss rate: 6.02%
-- Flow 1:
Average throughput: 238.89 Mbit/s
95th percentile per-packet one-way delay: 469.328 ms
Loss rate: 5.35%
-- Flow 2:
Average throughput: 148.21 Mbit/s
95th percentile per-packet one-way delay: 436.141 ms
Loss rate: 5.19%
-- Flow 3:
Average throughput: 85.06 Mbit/s
95th percentile per-packet one-way delay: 439.675 ms
Loss rate: 13.90%
```

Run 5: Report of TCP BBR — Data Link

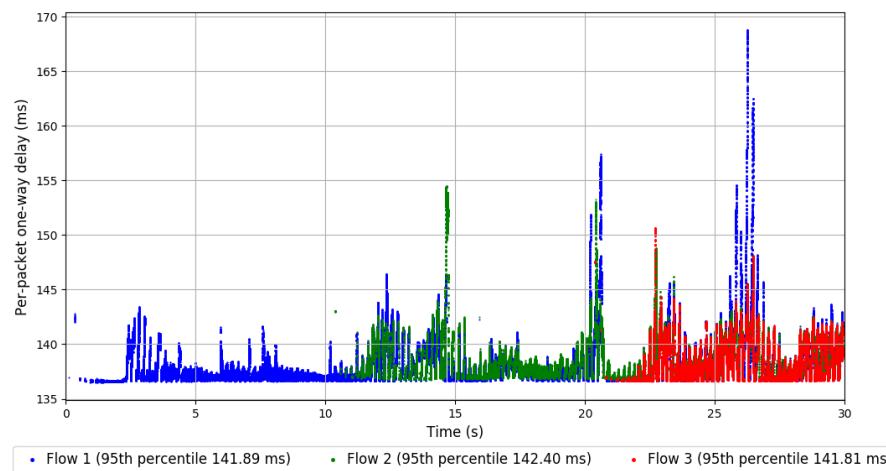
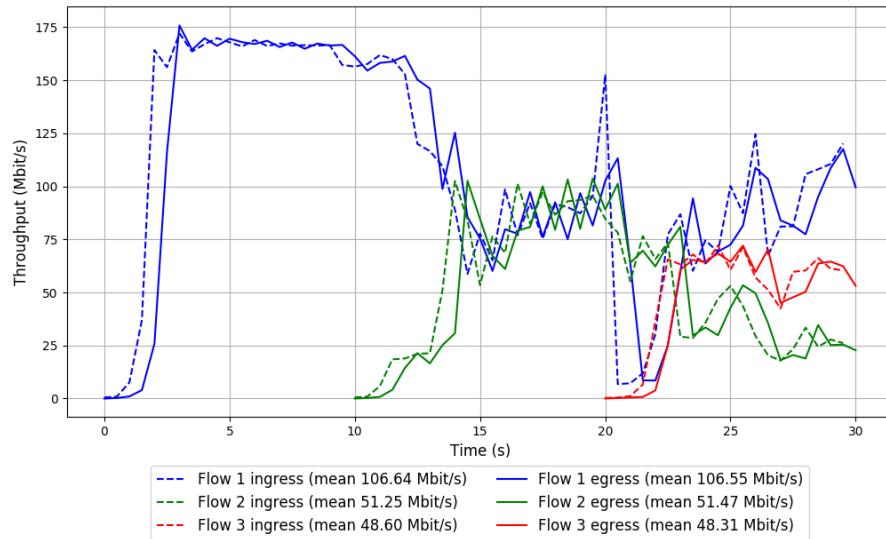


Run 1: Statistics of Copa

```
Start at: 2019-01-22 02:47:18
End at: 2019-01-22 02:47:48
Local clock offset: -1.75 ms
Remote clock offset: -44.639 ms

# Below is generated by plot.py at 2019-01-22 06:25:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 156.53 Mbit/s
95th percentile per-packet one-way delay: 142.013 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 106.55 Mbit/s
95th percentile per-packet one-way delay: 141.892 ms
Loss rate: 0.74%
-- Flow 2:
Average throughput: 51.47 Mbit/s
95th percentile per-packet one-way delay: 142.402 ms
Loss rate: 0.57%
-- Flow 3:
Average throughput: 48.31 Mbit/s
95th percentile per-packet one-way delay: 141.808 ms
Loss rate: 2.59%
```

Run 1: Report of Copa — Data Link

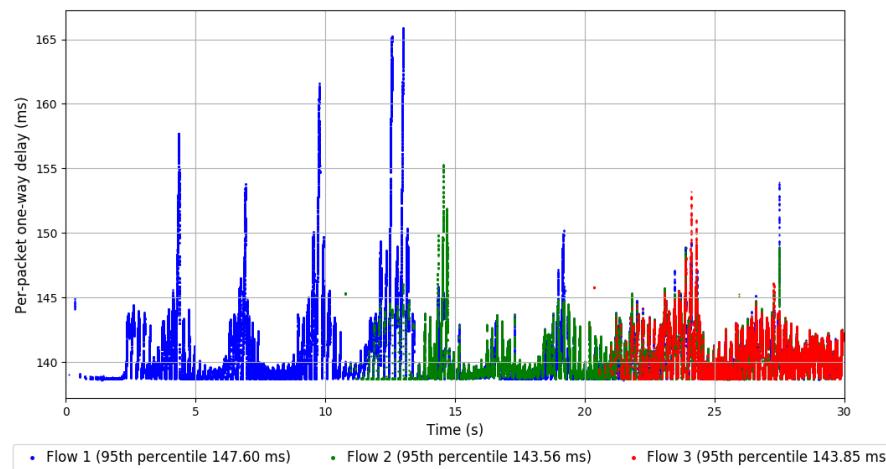
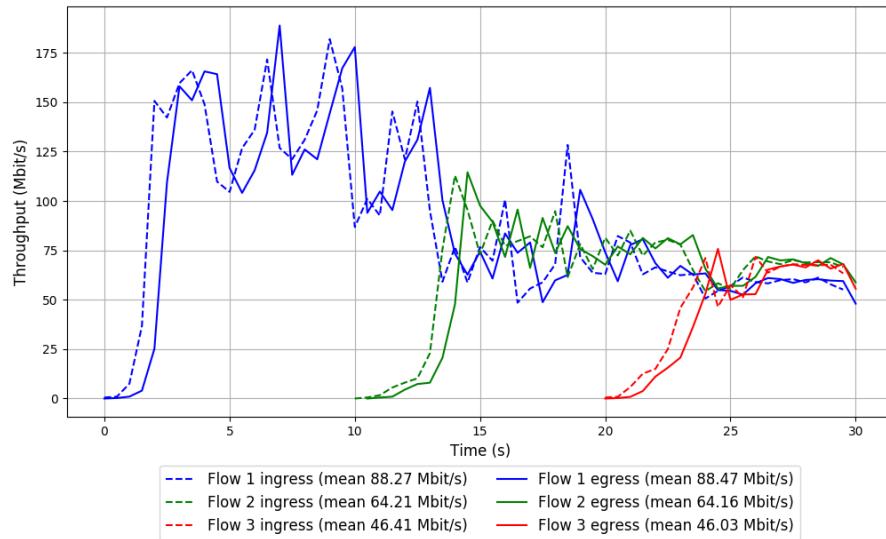


Run 2: Statistics of Copa

```
Start at: 2019-01-22 03:28:21
End at: 2019-01-22 03:28:51
Local clock offset: -0.199 ms
Remote clock offset: -45.145 ms

# Below is generated by plot.py at 2019-01-22 06:25:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 145.27 Mbit/s
95th percentile per-packet one-way delay: 145.775 ms
Loss rate: 0.87%
-- Flow 1:
Average throughput: 88.47 Mbit/s
95th percentile per-packet one-way delay: 147.601 ms
Loss rate: 0.43%
-- Flow 2:
Average throughput: 64.16 Mbit/s
95th percentile per-packet one-way delay: 143.560 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 46.03 Mbit/s
95th percentile per-packet one-way delay: 143.849 ms
Loss rate: 2.84%
```

Run 2: Report of Copa — Data Link

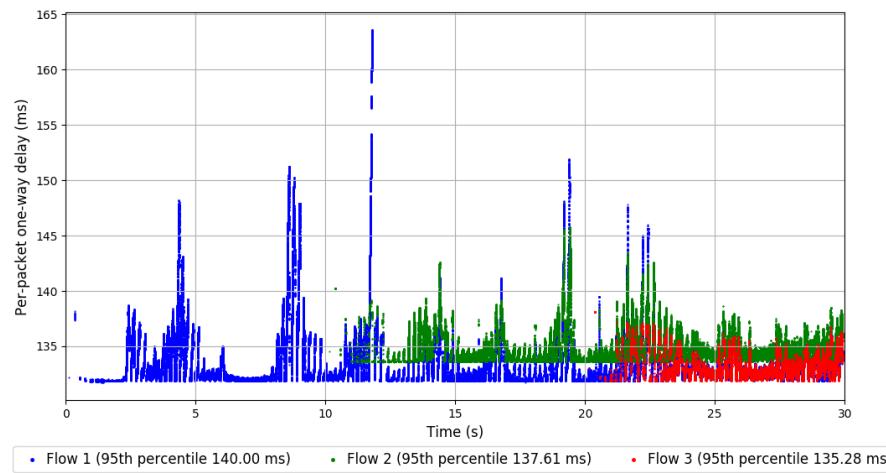
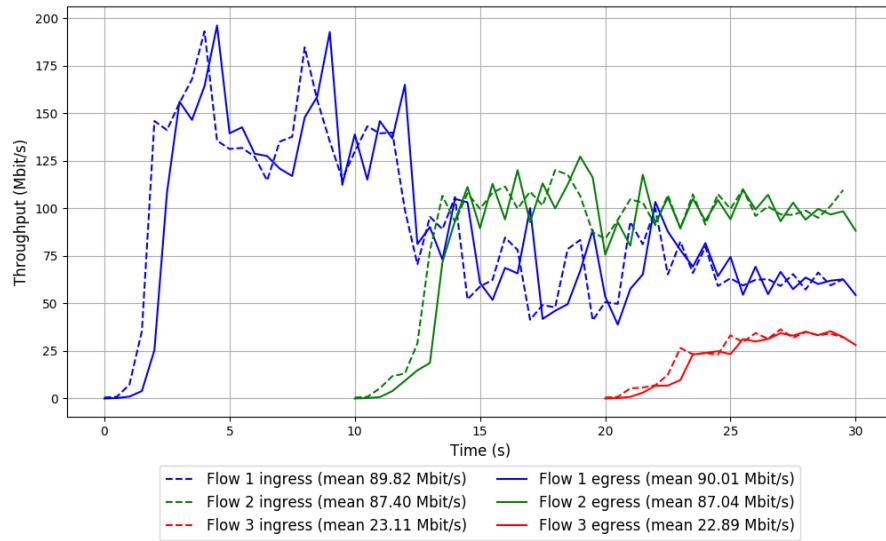


Run 3: Statistics of Copa

```
Start at: 2019-01-22 03:59:23
End at: 2019-01-22 03:59:53
Local clock offset: 0.713 ms
Remote clock offset: -39.323 ms

# Below is generated by plot.py at 2019-01-22 06:25:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 155.28 Mbit/s
95th percentile per-packet one-way delay: 138.332 ms
Loss rate: 0.92%
-- Flow 1:
Average throughput: 90.01 Mbit/s
95th percentile per-packet one-way delay: 140.000 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 87.04 Mbit/s
95th percentile per-packet one-way delay: 137.614 ms
Loss rate: 1.39%
-- Flow 3:
Average throughput: 22.89 Mbit/s
95th percentile per-packet one-way delay: 135.285 ms
Loss rate: 2.89%
```

Run 3: Report of Copa — Data Link

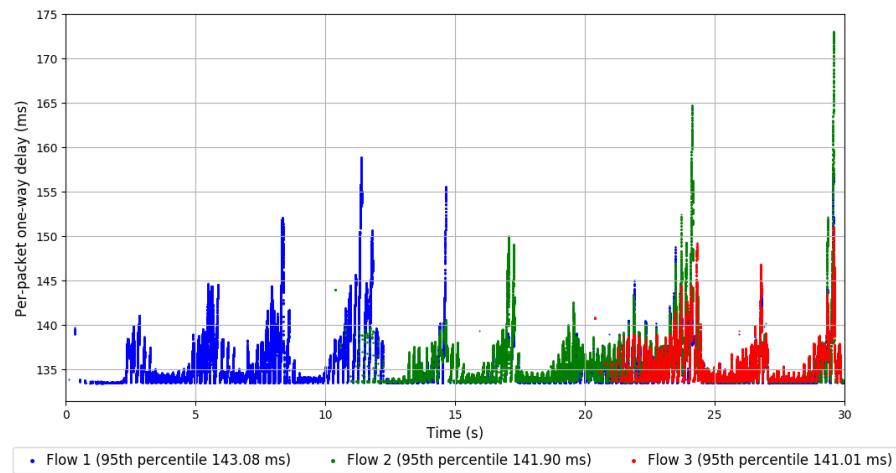
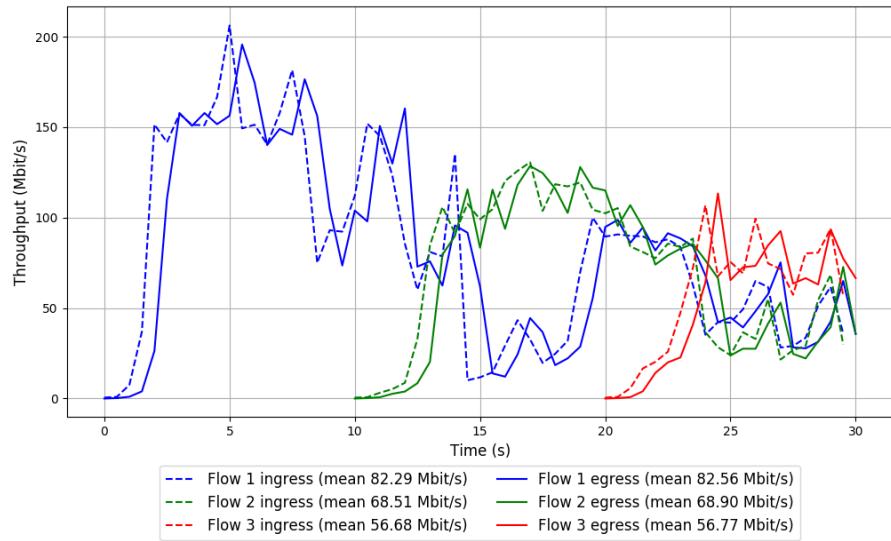


Run 4: Statistics of Copa

```
Start at: 2019-01-22 04:50:42
End at: 2019-01-22 04:51:12
Local clock offset: 0.046 ms
Remote clock offset: -40.402 ms

# Below is generated by plot.py at 2019-01-22 06:27:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.75 Mbit/s
95th percentile per-packet one-way delay: 142.574 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 82.56 Mbit/s
95th percentile per-packet one-way delay: 143.078 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 68.90 Mbit/s
95th percentile per-packet one-way delay: 141.898 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 56.77 Mbit/s
95th percentile per-packet one-way delay: 141.010 ms
Loss rate: 2.10%
```

Run 4: Report of Copa — Data Link

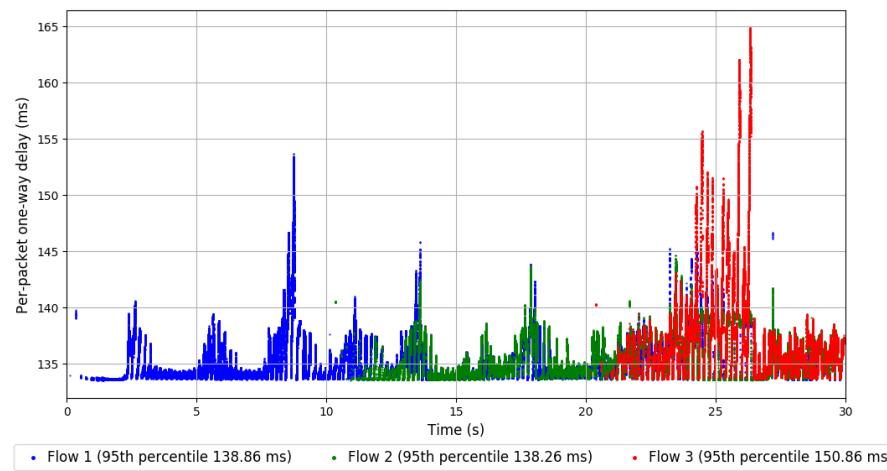
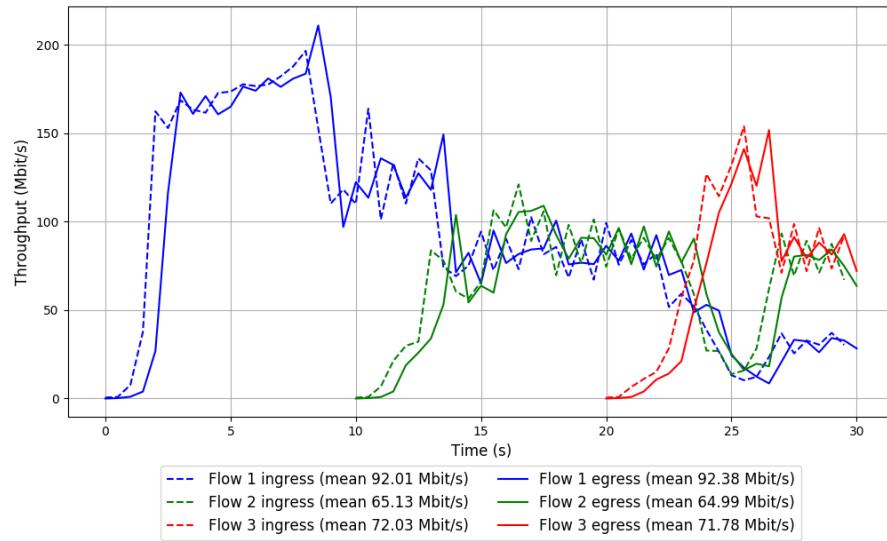


Run 5: Statistics of Copa

```
Start at: 2019-01-22 05:54:17
End at: 2019-01-22 05:54:47
Local clock offset: -0.62 ms
Remote clock offset: -41.309 ms

# Below is generated by plot.py at 2019-01-22 06:28:02
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.06 Mbit/s
95th percentile per-packet one-way delay: 140.538 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 92.38 Mbit/s
95th percentile per-packet one-way delay: 138.858 ms
Loss rate: 0.25%
-- Flow 2:
Average throughput: 64.99 Mbit/s
95th percentile per-packet one-way delay: 138.257 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 71.78 Mbit/s
95th percentile per-packet one-way delay: 150.861 ms
Loss rate: 2.29%
```

Run 5: Report of Copa — Data Link

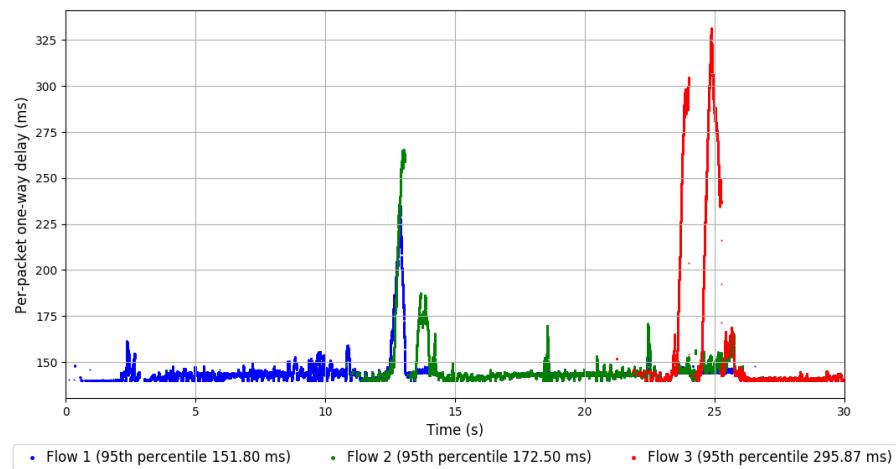
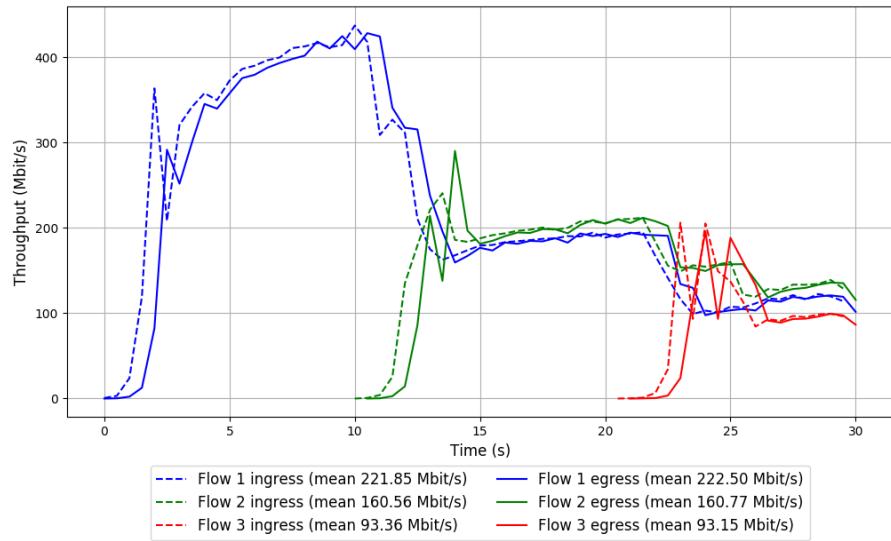


```
Run 1: Statistics of TCP Cubic
```

```
Start at: 2019-01-22 02:37:43
End at: 2019-01-22 02:38:13
Local clock offset: 1.415 ms
Remote clock offset: -45.255 ms

# Below is generated by plot.py at 2019-01-22 06:28:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.75 Mbit/s
95th percentile per-packet one-way delay: 166.489 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 222.50 Mbit/s
95th percentile per-packet one-way delay: 151.803 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 160.77 Mbit/s
95th percentile per-packet one-way delay: 172.501 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 93.15 Mbit/s
95th percentile per-packet one-way delay: 295.866 ms
Loss rate: 2.38%
```

Run 1: Report of TCP Cubic — Data Link

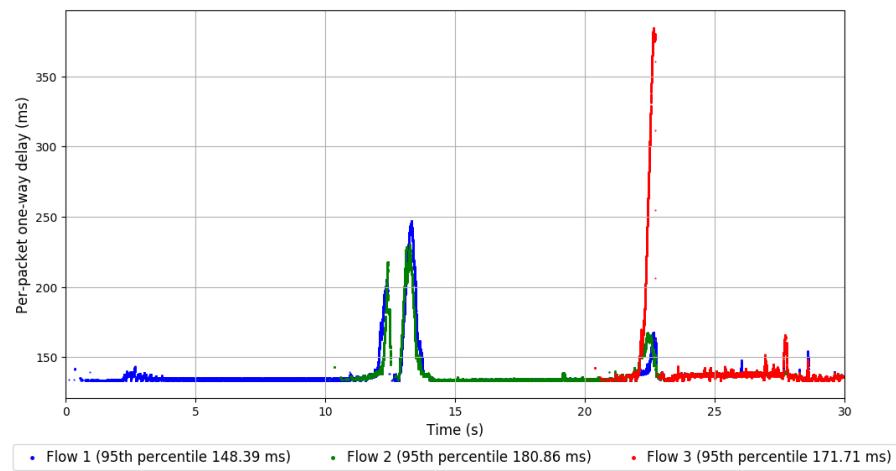
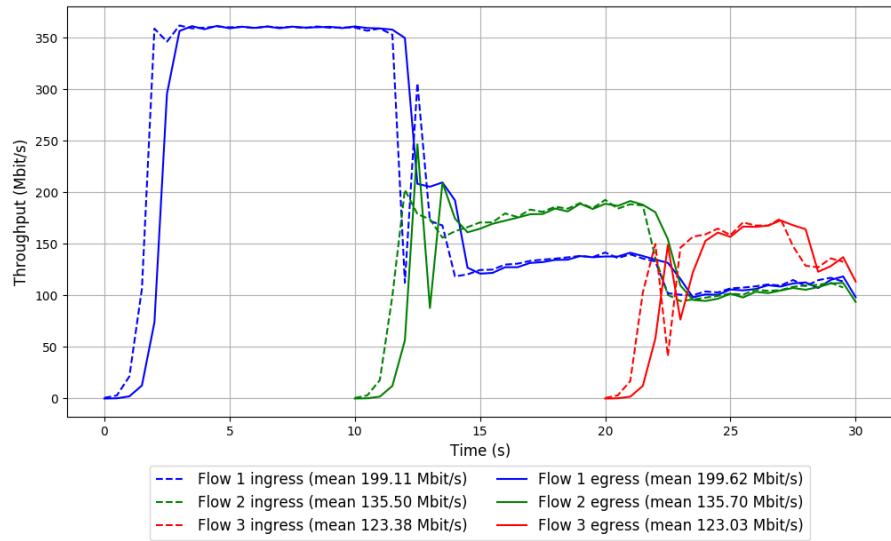


Run 2: Statistics of TCP Cubic

```
Start at: 2019-01-22 03:24:15
End at: 2019-01-22 03:24:45
Local clock offset: 0.429 ms
Remote clock offset: -38.97 ms

# Below is generated by plot.py at 2019-01-22 06:28:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 329.94 Mbit/s
95th percentile per-packet one-way delay: 161.959 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 199.62 Mbit/s
95th percentile per-packet one-way delay: 148.392 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 135.70 Mbit/s
95th percentile per-packet one-way delay: 180.860 ms
Loss rate: 0.84%
-- Flow 3:
Average throughput: 123.03 Mbit/s
95th percentile per-packet one-way delay: 171.710 ms
Loss rate: 2.24%
```

Run 2: Report of TCP Cubic — Data Link

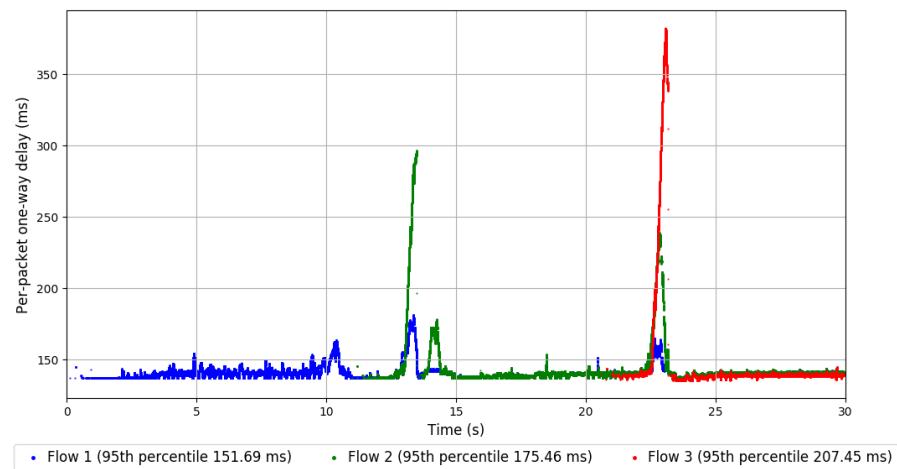
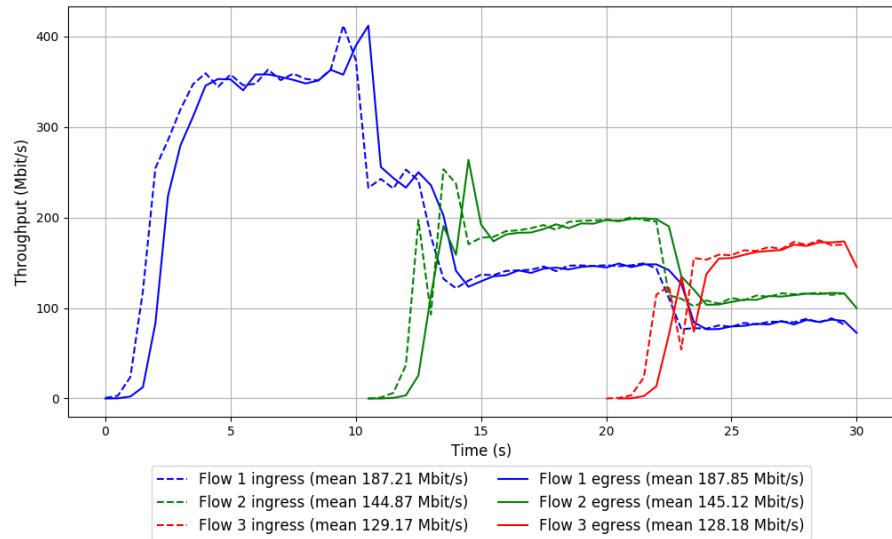


Run 3: Statistics of TCP Cubic

```
Start at: 2019-01-22 03:55:18
End at: 2019-01-22 03:55:48
Local clock offset: -1.437 ms
Remote clock offset: -44.797 ms

# Below is generated by plot.py at 2019-01-22 06:28:40
# Datalink statistics
-- Total of 3 flows:
Average throughput: 320.29 Mbit/s
95th percentile per-packet one-way delay: 157.345 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 187.85 Mbit/s
95th percentile per-packet one-way delay: 151.692 ms
Loss rate: 0.32%
-- Flow 2:
Average throughput: 145.12 Mbit/s
95th percentile per-packet one-way delay: 175.459 ms
Loss rate: 0.87%
-- Flow 3:
Average throughput: 128.18 Mbit/s
95th percentile per-packet one-way delay: 207.446 ms
Loss rate: 2.85%
```

Run 3: Report of TCP Cubic — Data Link

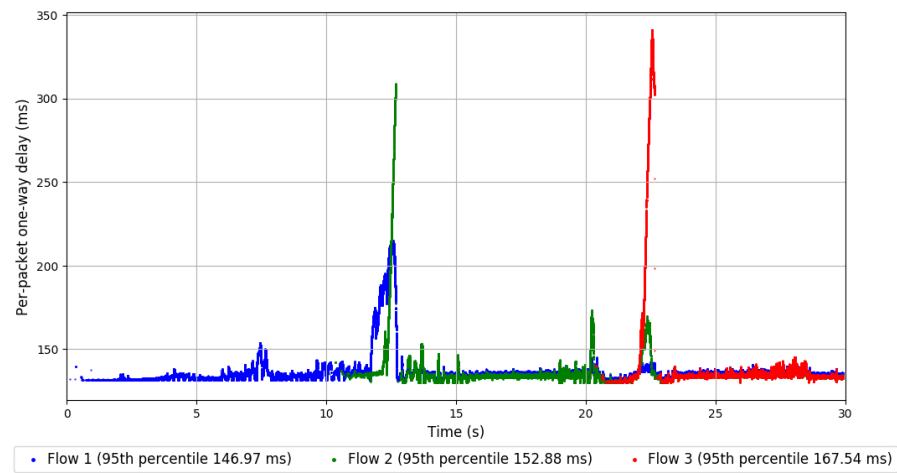
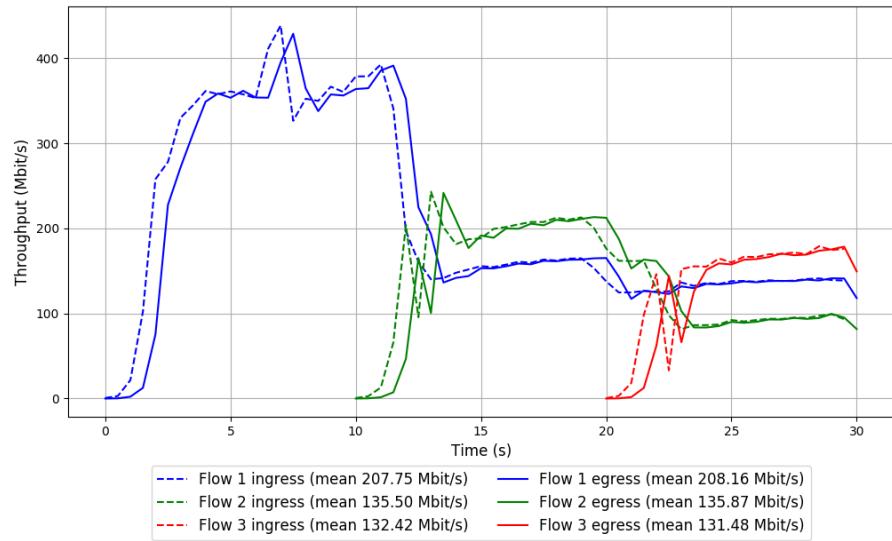


Run 4: Statistics of TCP Cubic

```
Start at: 2019-01-22 04:46:36
End at: 2019-01-22 04:47:06
Local clock offset: 0.536 ms
Remote clock offset: -37.87 ms

# Below is generated by plot.py at 2019-01-22 06:28:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.34 Mbit/s
95th percentile per-packet one-way delay: 150.371 ms
Loss rate: 0.83%
-- Flow 1:
Average throughput: 208.16 Mbit/s
95th percentile per-packet one-way delay: 146.969 ms
Loss rate: 0.47%
-- Flow 2:
Average throughput: 135.87 Mbit/s
95th percentile per-packet one-way delay: 152.880 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 131.48 Mbit/s
95th percentile per-packet one-way delay: 167.538 ms
Loss rate: 2.72%
```

Run 4: Report of TCP Cubic — Data Link

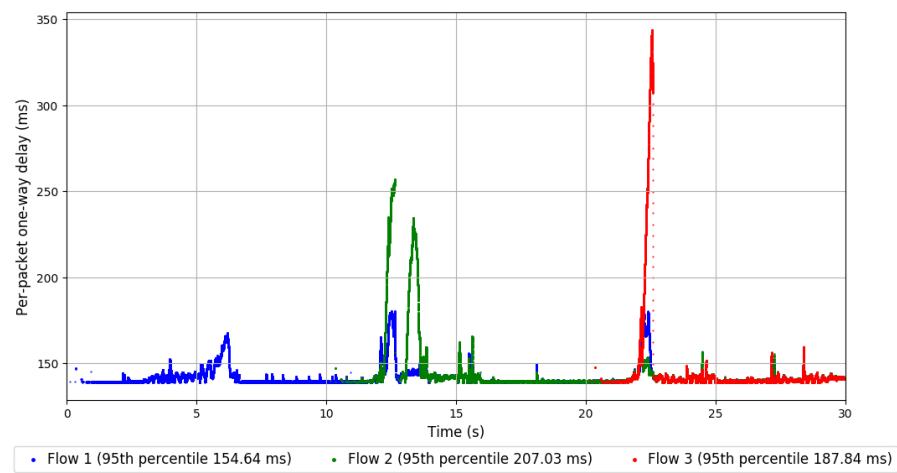
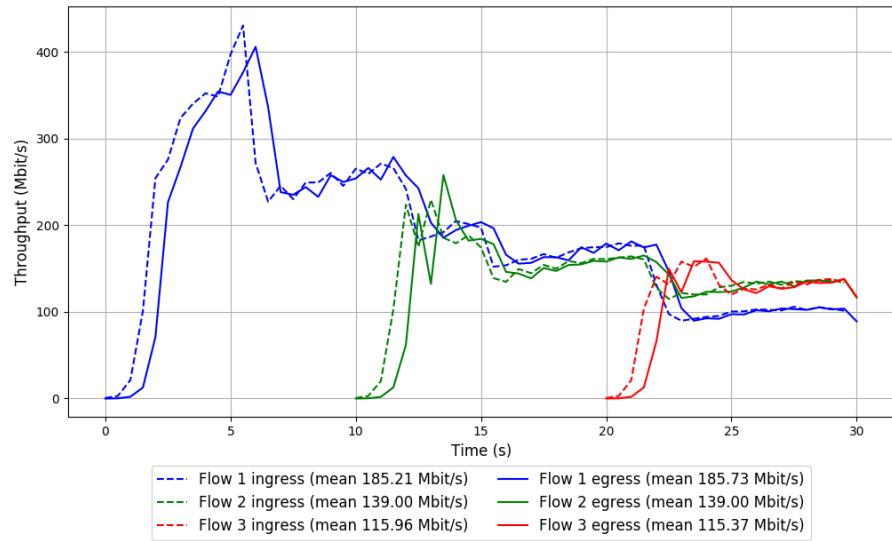


Run 5: Statistics of TCP Cubic

```
Start at: 2019-01-22 05:50:11
End at: 2019-01-22 05:50:41
Local clock offset: -1.123 ms
Remote clock offset: -46.845 ms

# Below is generated by plot.py at 2019-01-22 06:28:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.86 Mbit/s
95th percentile per-packet one-way delay: 161.607 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 185.73 Mbit/s
95th percentile per-packet one-way delay: 154.640 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 139.00 Mbit/s
95th percentile per-packet one-way delay: 207.026 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 115.37 Mbit/s
95th percentile per-packet one-way delay: 187.838 ms
Loss rate: 2.46%
```

Run 5: Report of TCP Cubic — Data Link

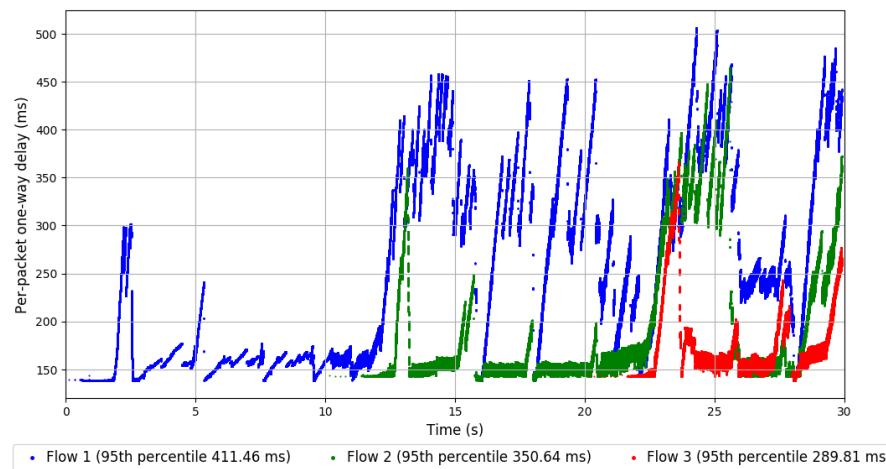
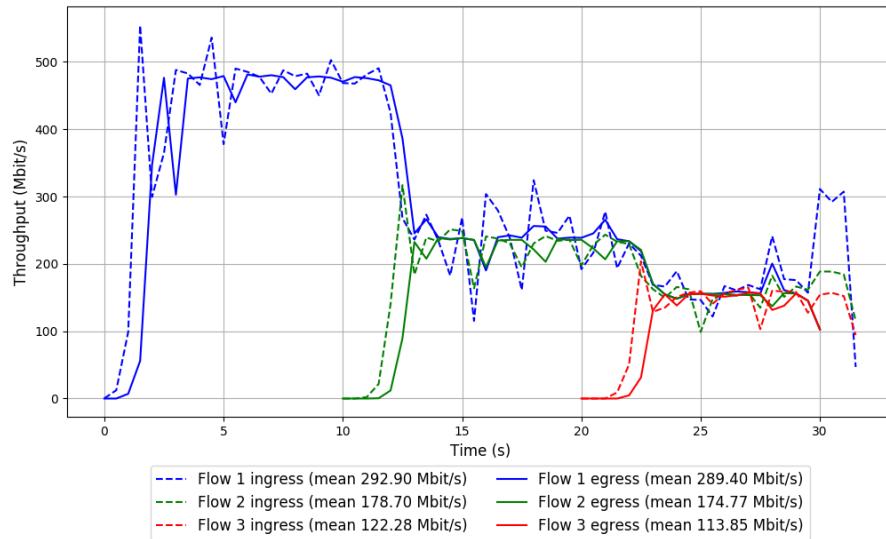


```
Run 1: Statistics of FillP

Start at: 2019-01-22 02:57:42
End at: 2019-01-22 02:58:12
Local clock offset: 0.662 ms
Remote clock offset: -42.578 ms

# Below is generated by plot.py at 2019-01-22 06:31:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 442.44 Mbit/s
95th percentile per-packet one-way delay: 396.378 ms
Loss rate: 10.03%
-- Flow 1:
Average throughput: 289.40 Mbit/s
95th percentile per-packet one-way delay: 411.464 ms
Loss rate: 7.41%
-- Flow 2:
Average throughput: 174.77 Mbit/s
95th percentile per-packet one-way delay: 350.644 ms
Loss rate: 11.45%
-- Flow 3:
Average throughput: 113.85 Mbit/s
95th percentile per-packet one-way delay: 289.815 ms
Loss rate: 23.18%
```

Run 1: Report of FillP — Data Link

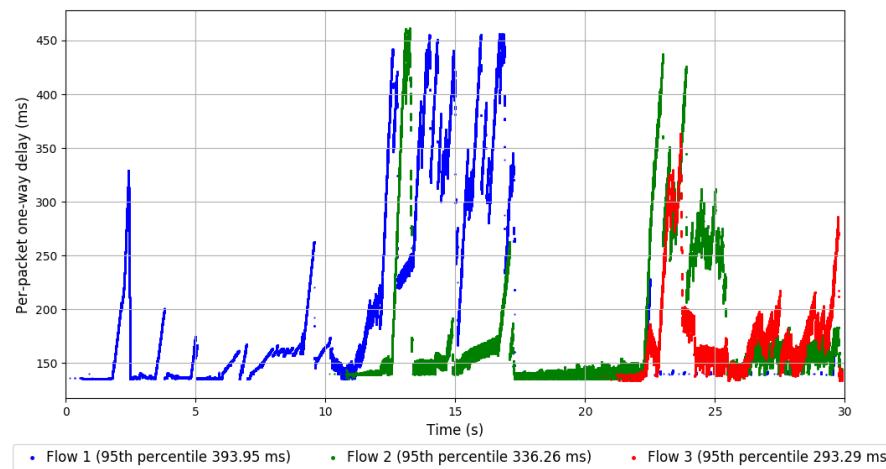
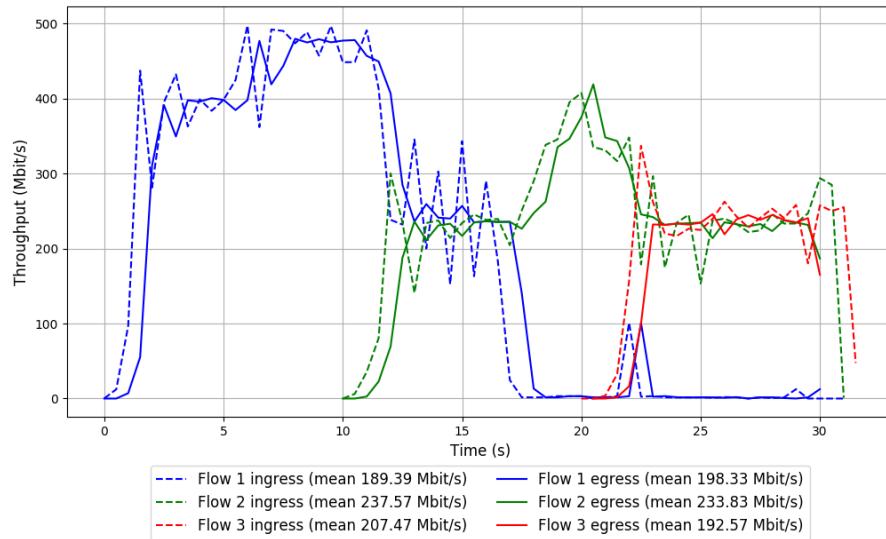


Run 2: Statistics of FillP

```
Start at: 2019-01-22 03:38:37
End at: 2019-01-22 03:39:07
Local clock offset: 1.656 ms
Remote clock offset: -40.77 ms

# Below is generated by plot.py at 2019-01-22 06:33:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.10 Mbit/s
95th percentile per-packet one-way delay: 364.874 ms
Loss rate: 6.90%
-- Flow 1:
Average throughput: 198.33 Mbit/s
95th percentile per-packet one-way delay: 393.950 ms
Loss rate: 0.34%
-- Flow 2:
Average throughput: 233.83 Mbit/s
95th percentile per-packet one-way delay: 336.259 ms
Loss rate: 7.41%
-- Flow 3:
Average throughput: 192.57 Mbit/s
95th percentile per-packet one-way delay: 293.288 ms
Loss rate: 22.54%
```

Run 2: Report of FillP — Data Link



Run 3: Statistics of FillP

Start at: 2019-01-22 04:19:41
End at: 2019-01-22 04:20:11
Local clock offset: -0.272 ms
Remote clock offset: -33.627 ms

Run 3: Report of FillP — Data Link

Figure is missing

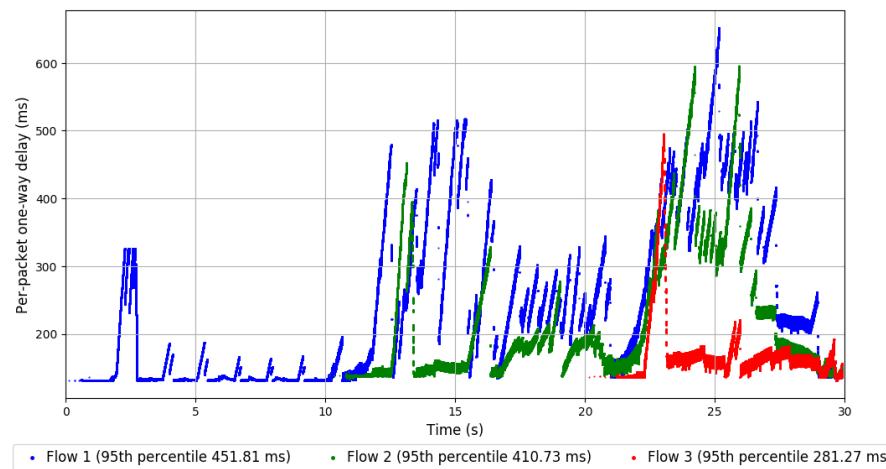
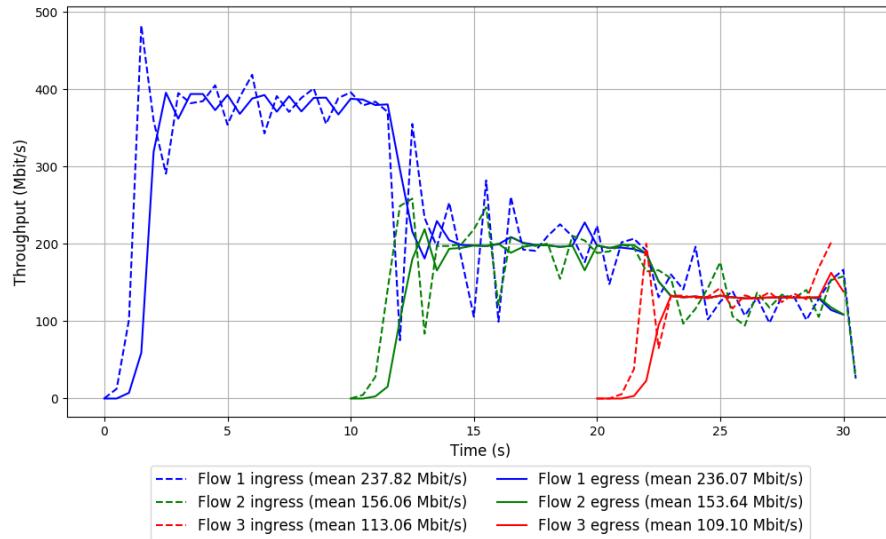
Figure is missing

Run 4: Statistics of FillP

```
Start at: 2019-01-22 05:16:39
End at: 2019-01-22 05:17:09
Local clock offset: -0.717 ms
Remote clock offset: -41.636 ms

# Below is generated by plot.py at 2019-01-22 06:33:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 373.70 Mbit/s
95th percentile per-packet one-way delay: 439.864 ms
Loss rate: 4.16%
-- Flow 1:
Average throughput: 236.07 Mbit/s
95th percentile per-packet one-way delay: 451.810 ms
Loss rate: 3.33%
-- Flow 2:
Average throughput: 153.64 Mbit/s
95th percentile per-packet one-way delay: 410.726 ms
Loss rate: 5.44%
-- Flow 3:
Average throughput: 109.10 Mbit/s
95th percentile per-packet one-way delay: 281.269 ms
Loss rate: 5.83%
```

Run 4: Report of FillP — Data Link



Run 5: Statistics of FillP

Start at: 2019-01-22 06:10:06
End at: 2019-01-22 06:10:36
Local clock offset: -0.057 ms
Remote clock offset: -36.034 ms

Run 5: Report of FillP — Data Link

Figure is missing

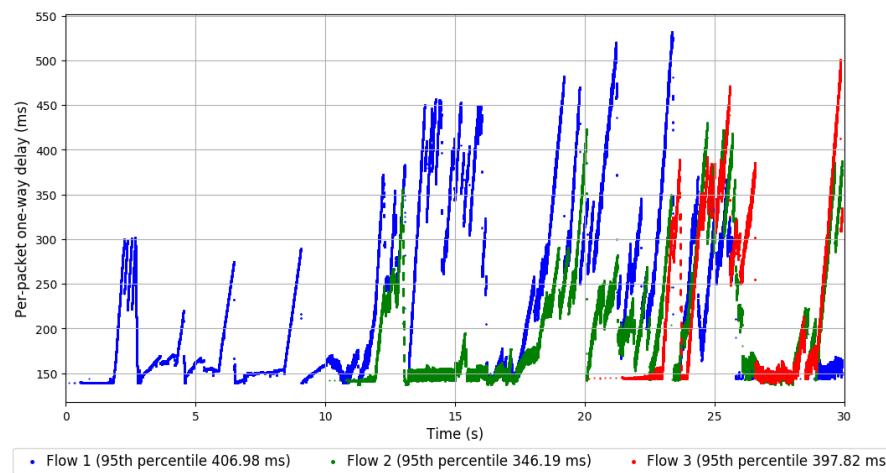
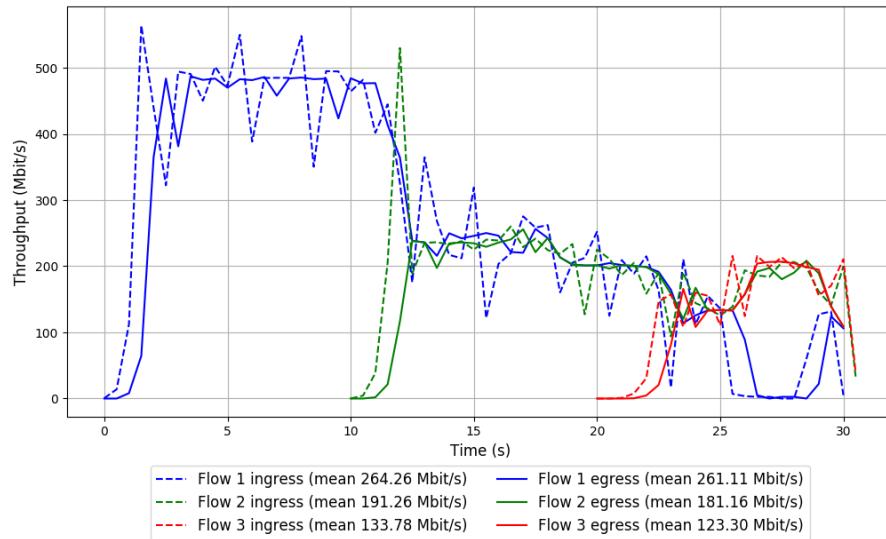
Figure is missing

Run 1: Statistics of FillP-Sheep

```
Start at: 2019-01-22 03:12:03
End at: 2019-01-22 03:12:33
Local clock offset: -0.762 ms
Remote clock offset: -44.242 ms

# Below is generated by plot.py at 2019-01-22 06:33:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 421.65 Mbit/s
95th percentile per-packet one-way delay: 389.996 ms
Loss rate: 5.46%
-- Flow 1:
Average throughput: 261.11 Mbit/s
95th percentile per-packet one-way delay: 406.979 ms
Loss rate: 2.00%
-- Flow 2:
Average throughput: 181.16 Mbit/s
95th percentile per-packet one-way delay: 346.186 ms
Loss rate: 9.00%
-- Flow 3:
Average throughput: 123.30 Mbit/s
95th percentile per-packet one-way delay: 397.821 ms
Loss rate: 15.02%
```

Run 1: Report of FillP-Sheep — Data Link

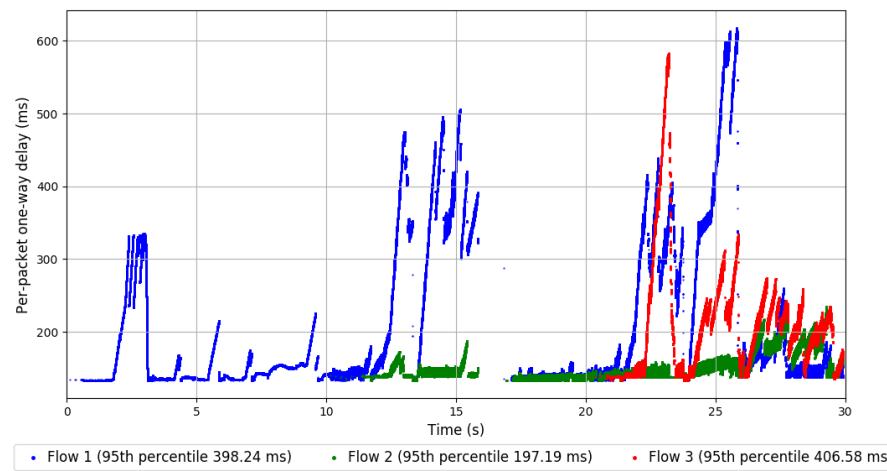
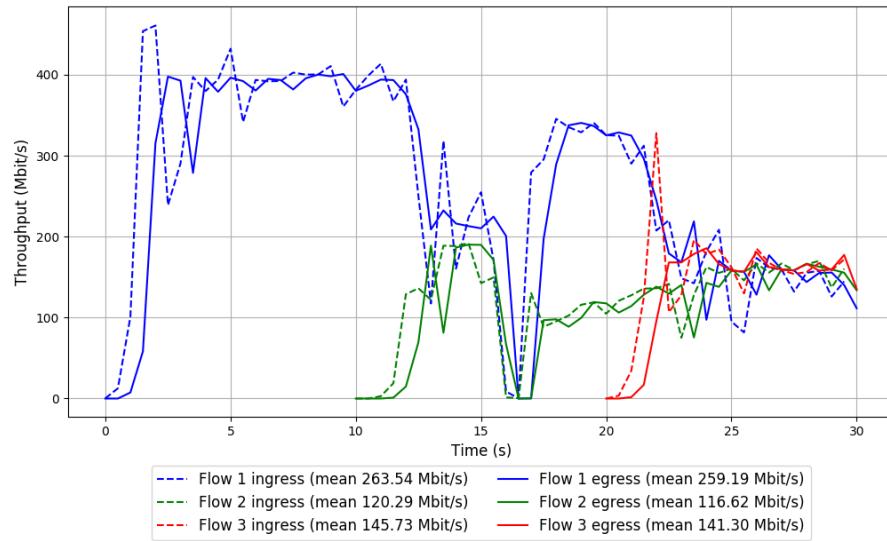


Run 2: Statistics of FillP-Sheep

```
Start at: 2019-01-22 03:43:15
End at: 2019-01-22 03:43:45
Local clock offset: 1.471 ms
Remote clock offset: -38.738 ms

# Below is generated by plot.py at 2019-01-22 06:33:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 382.79 Mbit/s
95th percentile per-packet one-way delay: 378.974 ms
Loss rate: 2.97%
-- Flow 1:
Average throughput: 259.19 Mbit/s
95th percentile per-packet one-way delay: 398.236 ms
Loss rate: 2.29%
-- Flow 2:
Average throughput: 116.62 Mbit/s
95th percentile per-packet one-way delay: 197.187 ms
Loss rate: 4.05%
-- Flow 3:
Average throughput: 141.30 Mbit/s
95th percentile per-packet one-way delay: 406.578 ms
Loss rate: 4.88%
```

Run 2: Report of FillP-Sheep — Data Link

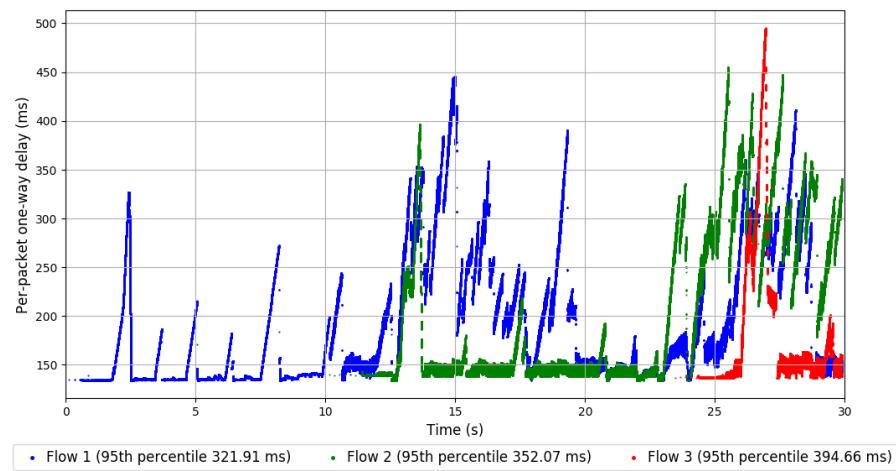
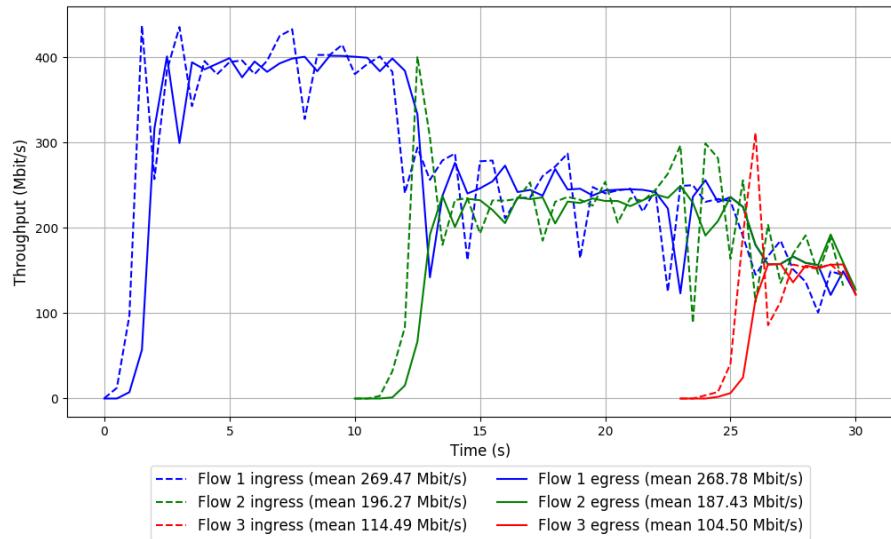


Run 3: Statistics of FillP-Sheep

```
Start at: 2019-01-22 04:24:49
End at: 2019-01-22 04:25:19
Local clock offset: 0.578 ms
Remote clock offset: -39.95 ms

# Below is generated by plot.py at 2019-01-22 06:33:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 415.72 Mbit/s
95th percentile per-packet one-way delay: 336.143 ms
Loss rate: 2.94%
-- Flow 1:
Average throughput: 268.78 Mbit/s
95th percentile per-packet one-way delay: 321.906 ms
Loss rate: 0.92%
-- Flow 2:
Average throughput: 187.43 Mbit/s
95th percentile per-packet one-way delay: 352.074 ms
Loss rate: 5.45%
-- Flow 3:
Average throughput: 104.50 Mbit/s
95th percentile per-packet one-way delay: 394.658 ms
Loss rate: 11.51%
```

Run 3: Report of FillP-Sheep — Data Link

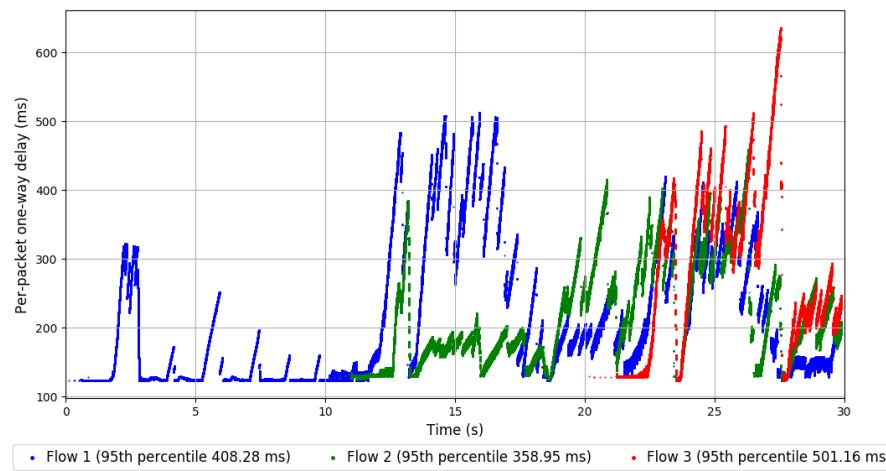
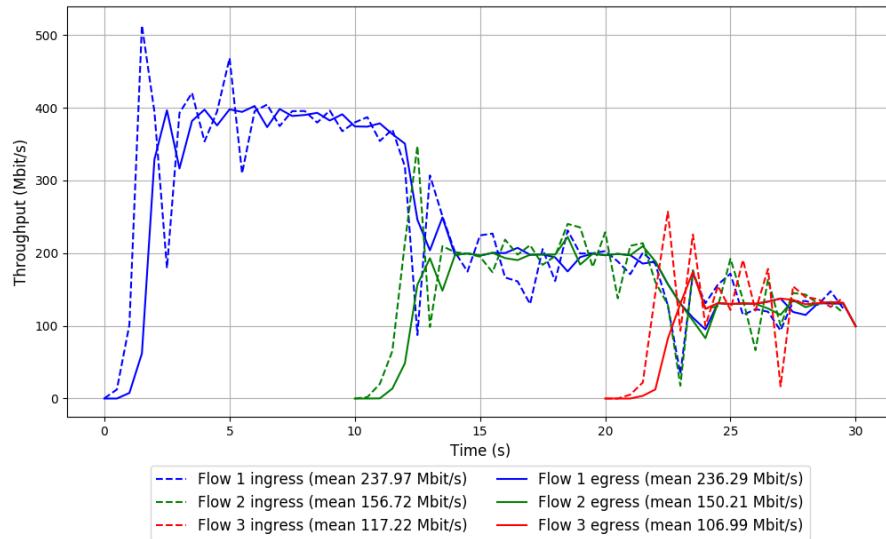


Run 4: Statistics of FillP-Sheep

```
Start at: 2019-01-22 05:21:17
End at: 2019-01-22 05:21:47
Local clock offset: -1.343 ms
Remote clock offset: -33.262 ms

# Below is generated by plot.py at 2019-01-22 06:33:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 370.80 Mbit/s
95th percentile per-packet one-way delay: 408.317 ms
Loss rate: 3.30%
-- Flow 1:
Average throughput: 236.29 Mbit/s
95th percentile per-packet one-way delay: 408.278 ms
Loss rate: 1.33%
-- Flow 2:
Average throughput: 150.21 Mbit/s
95th percentile per-packet one-way delay: 358.951 ms
Loss rate: 5.10%
-- Flow 3:
Average throughput: 106.99 Mbit/s
95th percentile per-packet one-way delay: 501.156 ms
Loss rate: 10.58%
```

Run 4: Report of FillP-Sheep — Data Link

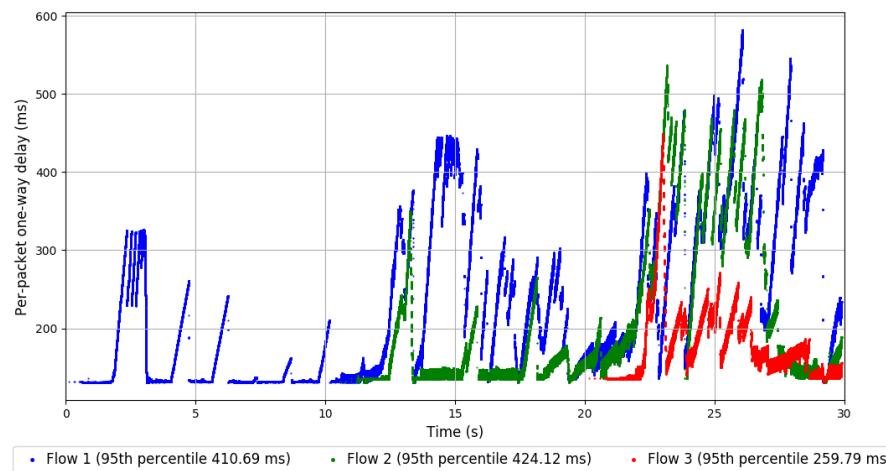
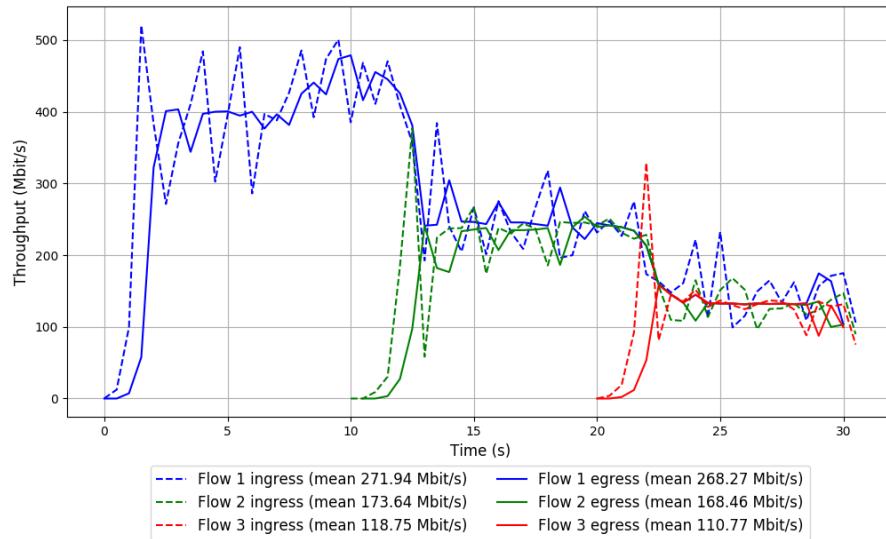


Run 5: Statistics of FillP-Sheep

```
Start at: 2019-01-22 06:14:47
End at: 2019-01-22 06:15:17
Local clock offset: -2.824 ms
Remote clock offset: -39.881 ms

# Below is generated by plot.py at 2019-01-22 06:34:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 413.80 Mbit/s
95th percentile per-packet one-way delay: 409.929 ms
Loss rate: 6.68%
-- Flow 1:
Average throughput: 268.27 Mbit/s
95th percentile per-packet one-way delay: 410.692 ms
Loss rate: 4.74%
-- Flow 2:
Average throughput: 168.46 Mbit/s
95th percentile per-packet one-way delay: 424.117 ms
Loss rate: 7.97%
-- Flow 3:
Average throughput: 110.77 Mbit/s
95th percentile per-packet one-way delay: 259.791 ms
Loss rate: 15.86%
```

Run 5: Report of FillP-Sheep — Data Link

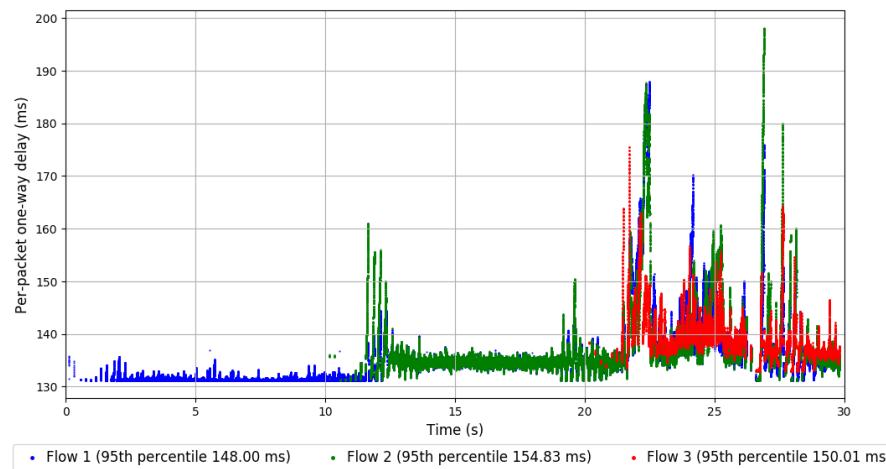
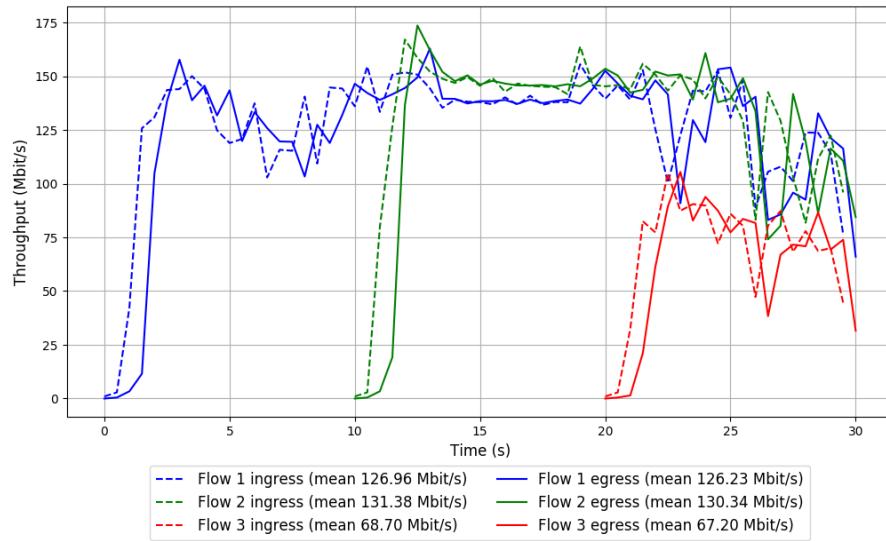


Run 1: Statistics of Indigo

```
Start at: 2019-01-22 02:36:11
End at: 2019-01-22 02:36:41
Local clock offset: 1.351 ms
Remote clock offset: -38.082 ms

# Below is generated by plot.py at 2019-01-22 06:34:31
# Datalink statistics
-- Total of 3 flows:
Average throughput: 234.41 Mbit/s
95th percentile per-packet one-way delay: 151.271 ms
Loss rate: 1.71%
-- Flow 1:
Average throughput: 126.23 Mbit/s
95th percentile per-packet one-way delay: 148.002 ms
Loss rate: 1.23%
-- Flow 2:
Average throughput: 130.34 Mbit/s
95th percentile per-packet one-way delay: 154.830 ms
Loss rate: 1.77%
-- Flow 3:
Average throughput: 67.20 Mbit/s
95th percentile per-packet one-way delay: 150.012 ms
Loss rate: 4.19%
```

Run 1: Report of Indigo — Data Link

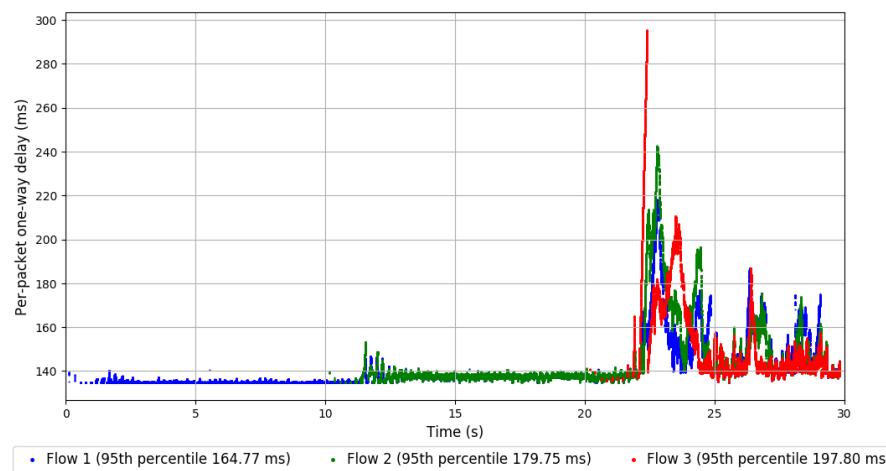
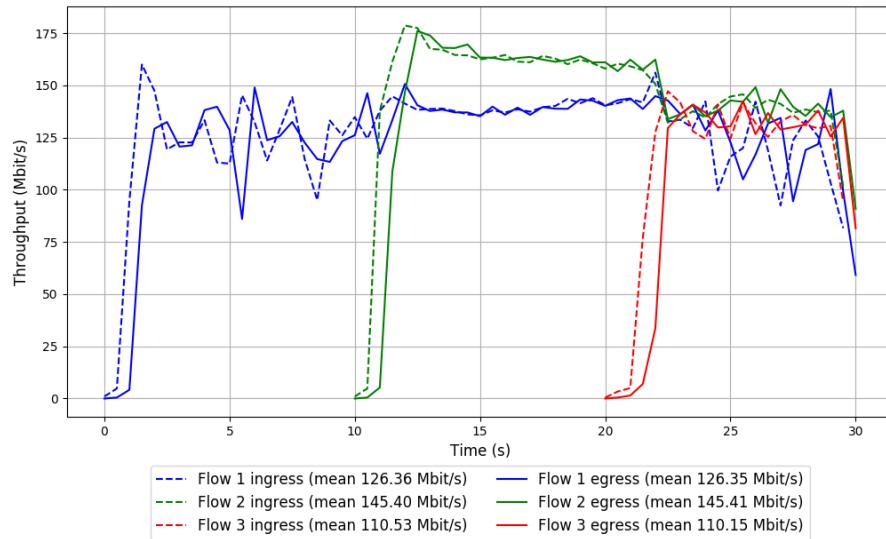


Run 2: Statistics of Indigo

```
Start at: 2019-01-22 03:22:41
End at: 2019-01-22 03:23:11
Local clock offset: 0.986 ms
Remote clock offset: -39.406 ms

# Below is generated by plot.py at 2019-01-22 06:35:42
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.43 Mbit/s
95th percentile per-packet one-way delay: 174.888 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 126.35 Mbit/s
95th percentile per-packet one-way delay: 164.767 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 145.41 Mbit/s
95th percentile per-packet one-way delay: 179.747 ms
Loss rate: 1.00%
-- Flow 3:
Average throughput: 110.15 Mbit/s
95th percentile per-packet one-way delay: 197.801 ms
Loss rate: 2.39%
```

Run 2: Report of Indigo — Data Link

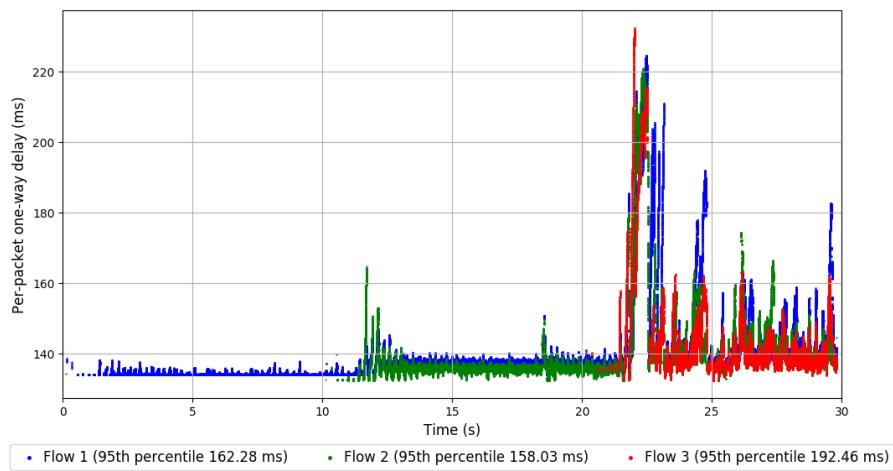
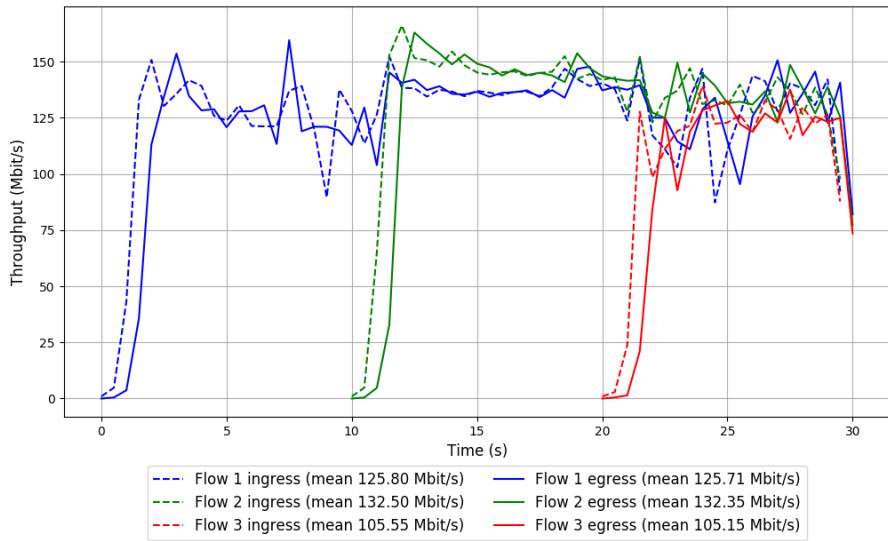


Run 3: Statistics of Indigo

```
Start at: 2019-01-22 03:53:45
End at: 2019-01-22 03:54:15
Local clock offset: -0.092 ms
Remote clock offset: -40.641 ms

# Below is generated by plot.py at 2019-01-22 06:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 247.60 Mbit/s
95th percentile per-packet one-way delay: 163.188 ms
Loss rate: 1.10%
-- Flow 1:
Average throughput: 125.71 Mbit/s
95th percentile per-packet one-way delay: 162.280 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 132.35 Mbit/s
95th percentile per-packet one-way delay: 158.034 ms
Loss rate: 1.10%
-- Flow 3:
Average throughput: 105.15 Mbit/s
95th percentile per-packet one-way delay: 192.458 ms
Loss rate: 2.43%
```

Run 3: Report of Indigo — Data Link

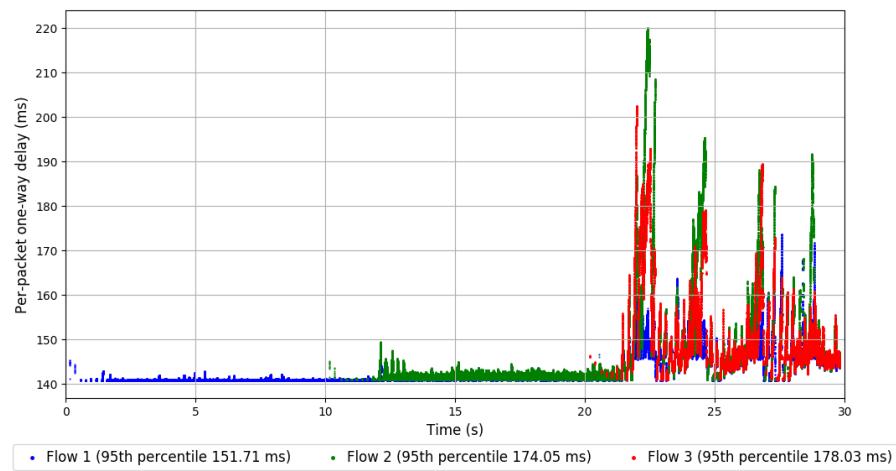
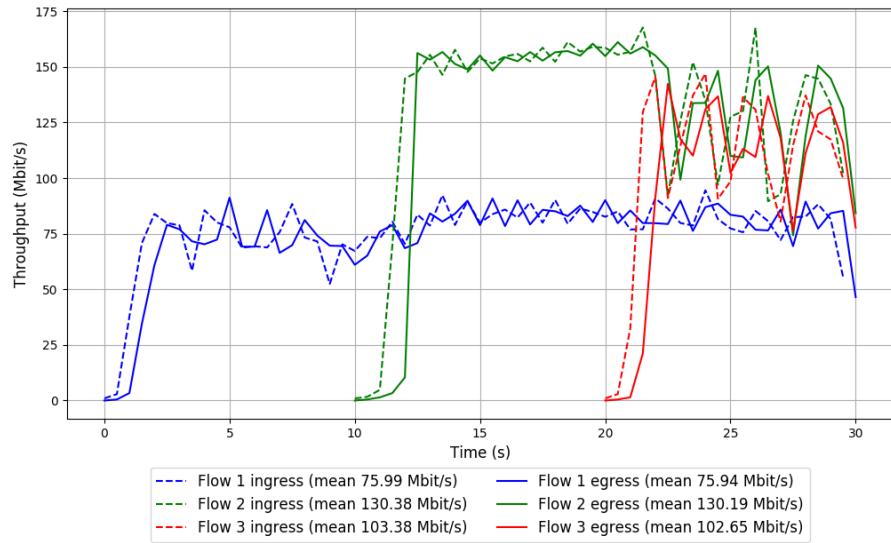


Run 4: Statistics of Indigo

```
Start at: 2019-01-22 04:45:05
End at: 2019-01-22 04:45:35
Local clock offset: -1.096 ms
Remote clock offset: -48.641 ms

# Below is generated by plot.py at 2019-01-22 06:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.47 Mbit/s
95th percentile per-packet one-way delay: 168.540 ms
Loss rate: 1.27%
-- Flow 1:
Average throughput: 75.94 Mbit/s
95th percentile per-packet one-way delay: 151.707 ms
Loss rate: 0.73%
-- Flow 2:
Average throughput: 130.19 Mbit/s
95th percentile per-packet one-way delay: 174.054 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 102.65 Mbit/s
95th percentile per-packet one-way delay: 178.031 ms
Loss rate: 2.76%
```

Run 4: Report of Indigo — Data Link

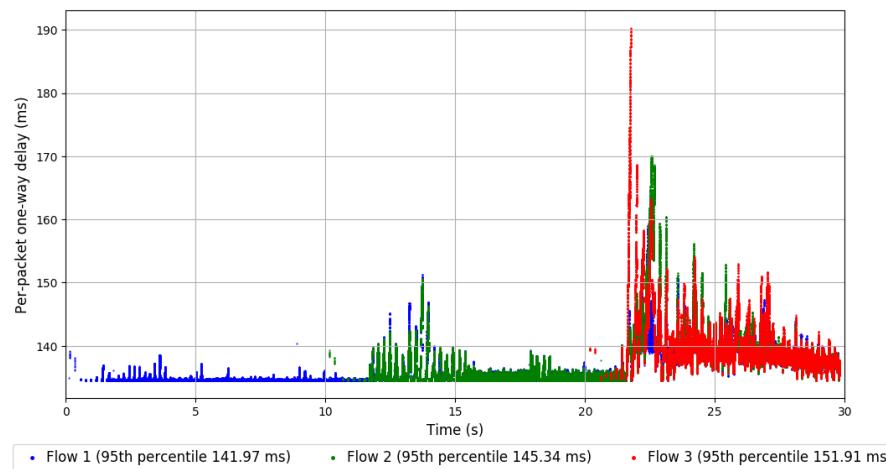
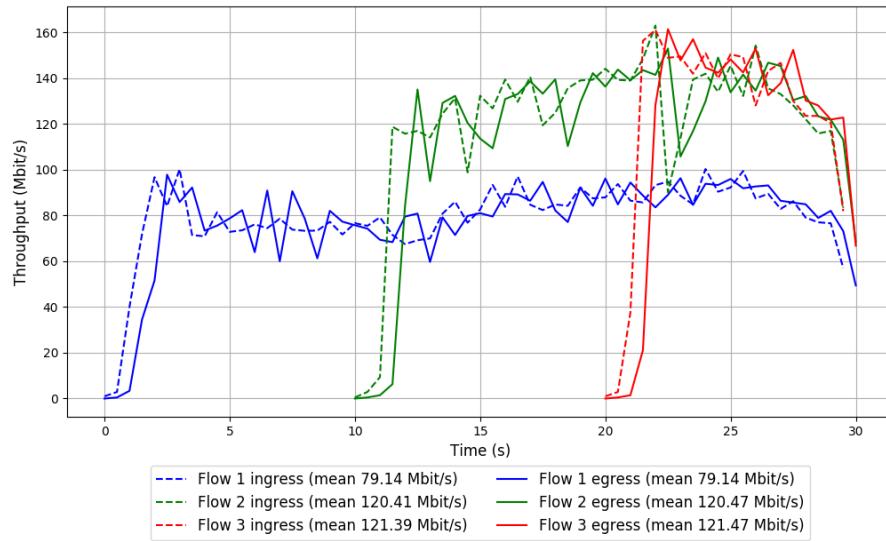


Run 5: Statistics of Indigo

```
Start at: 2019-01-22 05:43:07
End at: 2019-01-22 05:43:37
Local clock offset: -1.729 ms
Remote clock offset: -42.533 ms

# Below is generated by plot.py at 2019-01-22 06:35:47
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.40 Mbit/s
95th percentile per-packet one-way delay: 145.554 ms
Loss rate: 1.03%
-- Flow 1:
Average throughput: 79.14 Mbit/s
95th percentile per-packet one-way delay: 141.972 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 120.47 Mbit/s
95th percentile per-packet one-way delay: 145.340 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 121.47 Mbit/s
95th percentile per-packet one-way delay: 151.911 ms
Loss rate: 1.94%
```

Run 5: Report of Indigo — Data Link

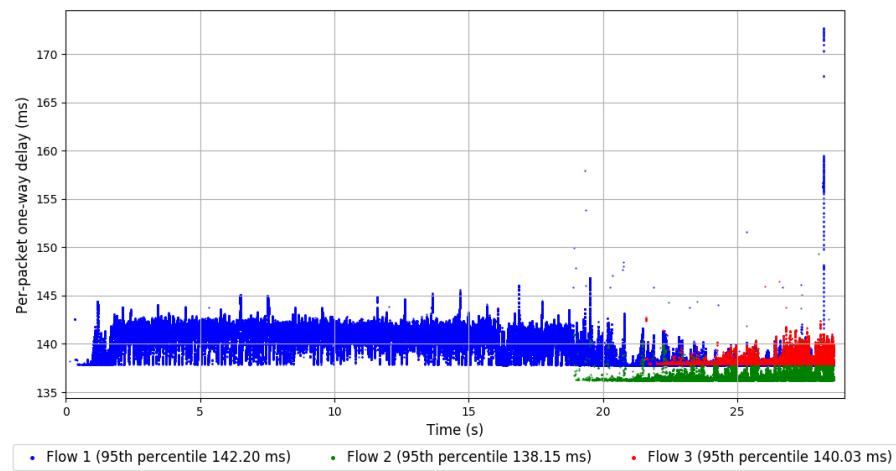
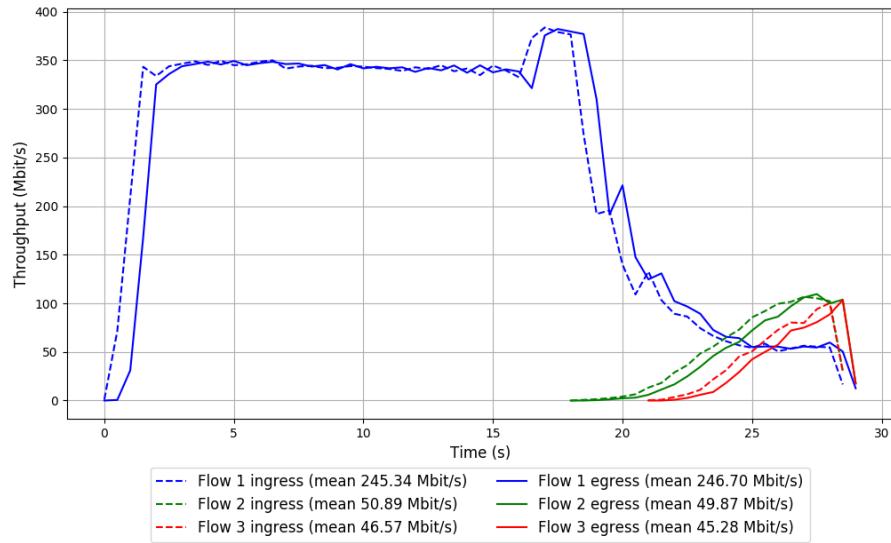


Run 1: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 03:08:49
End at: 2019-01-22 03:09:19
Local clock offset: -1.384 ms
Remote clock offset: -43.132 ms

# Below is generated by plot.py at 2019-01-22 06:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 276.34 Mbit/s
95th percentile per-packet one-way delay: 142.157 ms
Loss rate: 0.62%
-- Flow 1:
Average throughput: 246.70 Mbit/s
95th percentile per-packet one-way delay: 142.202 ms
Loss rate: 0.14%
-- Flow 2:
Average throughput: 49.87 Mbit/s
95th percentile per-packet one-way delay: 138.147 ms
Loss rate: 3.86%
-- Flow 3:
Average throughput: 45.28 Mbit/s
95th percentile per-packet one-way delay: 140.029 ms
Loss rate: 5.39%
```

Run 1: Report of Indigo-MusesC3 — Data Link

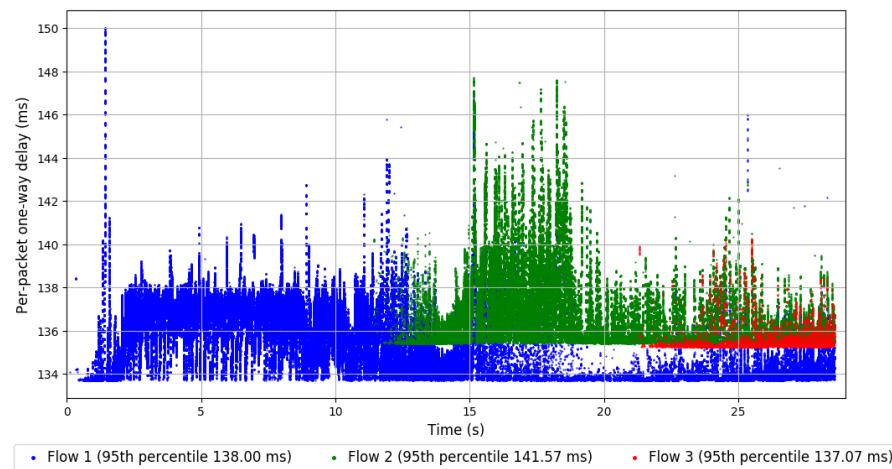
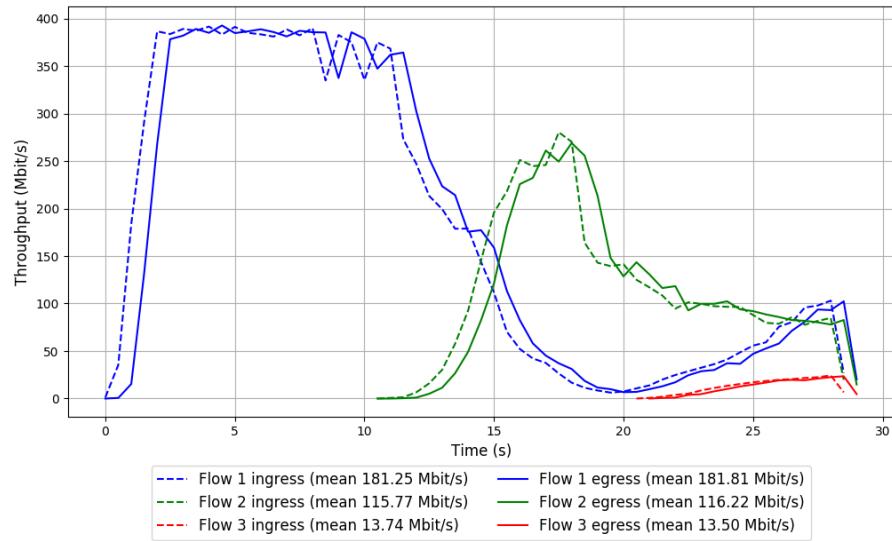


Run 2: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 03:40:14
End at: 2019-01-22 03:40:44
Local clock offset: 1.349 ms
Remote clock offset: -40.575 ms

# Below is generated by plot.py at 2019-01-22 06:36:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.17 Mbit/s
95th percentile per-packet one-way delay: 139.321 ms
Loss rate: 0.52%
-- Flow 1:
Average throughput: 181.81 Mbit/s
95th percentile per-packet one-way delay: 137.999 ms
Loss rate: 0.36%
-- Flow 2:
Average throughput: 116.22 Mbit/s
95th percentile per-packet one-way delay: 141.567 ms
Loss rate: 0.73%
-- Flow 3:
Average throughput: 13.50 Mbit/s
95th percentile per-packet one-way delay: 137.068 ms
Loss rate: 4.22%
```

Run 2: Report of Indigo-MusesC3 — Data Link

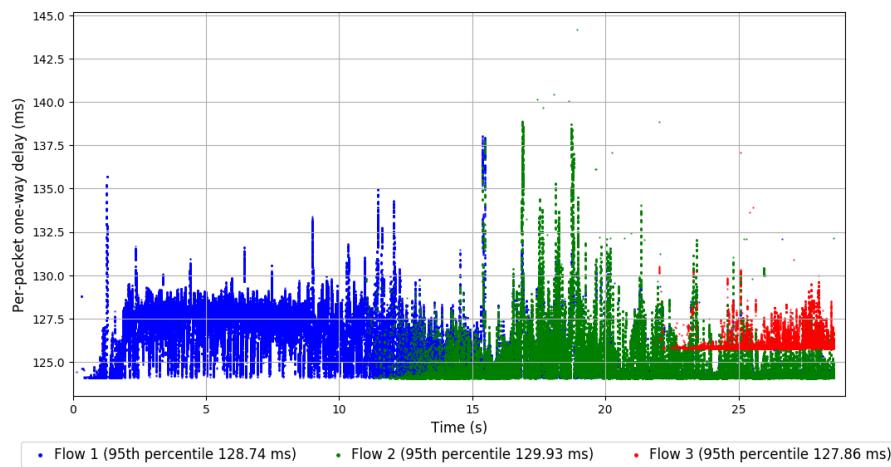
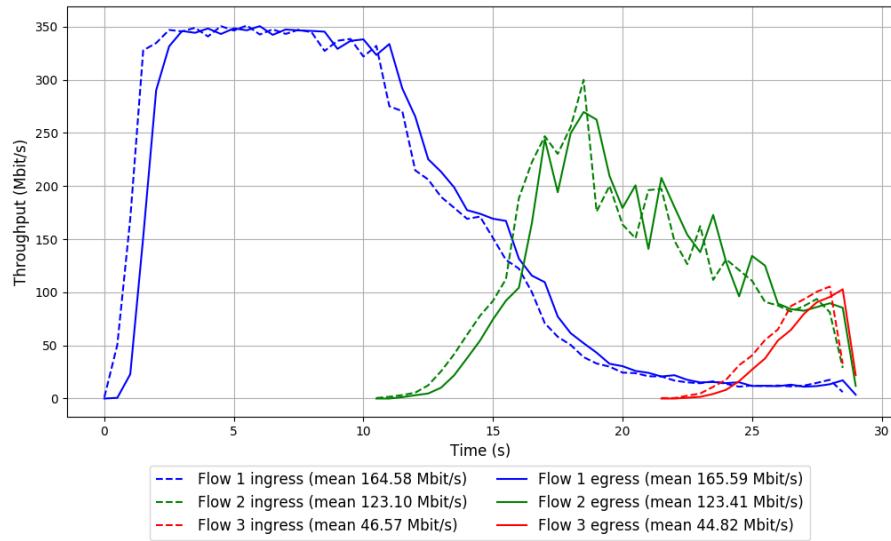


Run 3: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 04:21:46
End at: 2019-01-22 04:22:16
Local clock offset: -1.922 ms
Remote clock offset: -34.331 ms

# Below is generated by plot.py at 2019-01-22 06:37:05
# Datalink statistics
-- Total of 3 flows:
Average throughput: 253.28 Mbit/s
95th percentile per-packet one-way delay: 128.901 ms
Loss rate: 0.60%
-- Flow 1:
Average throughput: 165.59 Mbit/s
95th percentile per-packet one-way delay: 128.743 ms
Loss rate: 0.08%
-- Flow 2:
Average throughput: 123.41 Mbit/s
95th percentile per-packet one-way delay: 129.928 ms
Loss rate: 0.86%
-- Flow 3:
Average throughput: 44.82 Mbit/s
95th percentile per-packet one-way delay: 127.859 ms
Loss rate: 6.49%
```

Run 3: Report of Indigo-MusesC3 — Data Link

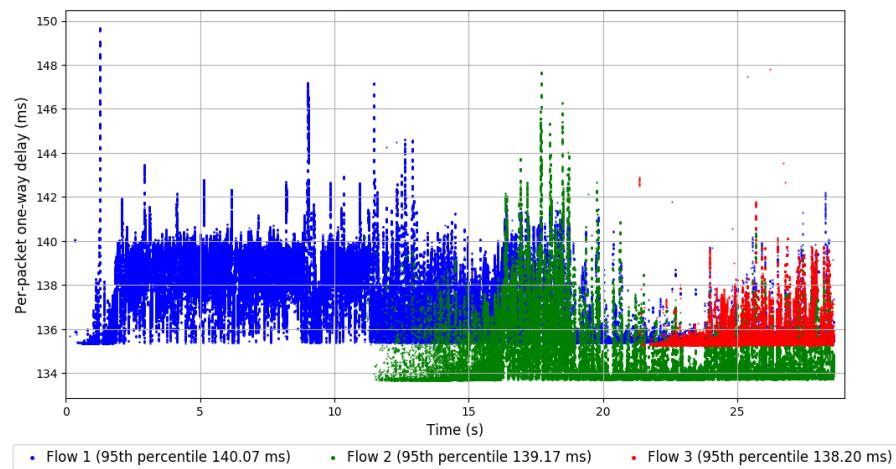
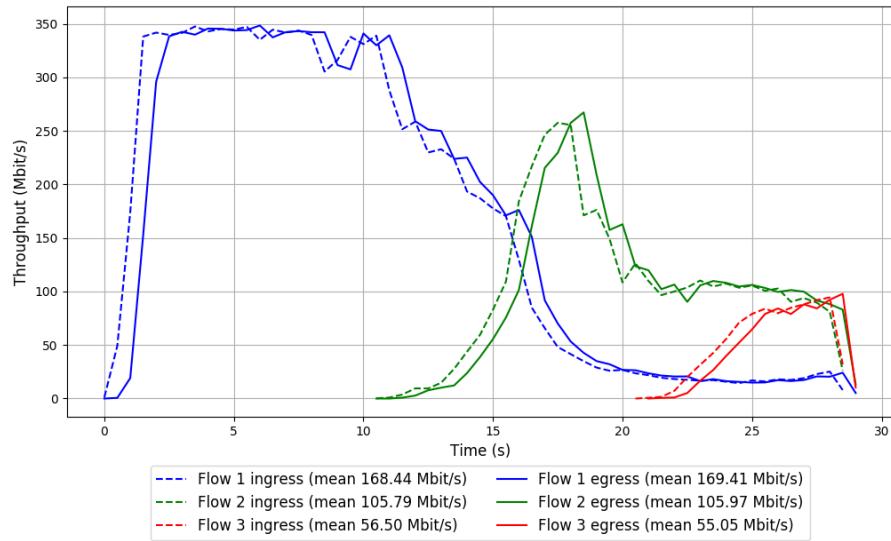


Run 4: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 05:18:13
End at: 2019-01-22 05:18:43
Local clock offset: 1.31 ms
Remote clock offset: -41.53 ms

# Below is generated by plot.py at 2019-01-22 06:37:09
# Datalink statistics
-- Total of 3 flows:
Average throughput: 249.62 Mbit/s
95th percentile per-packet one-way delay: 139.921 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 169.41 Mbit/s
95th percentile per-packet one-way delay: 140.075 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 105.97 Mbit/s
95th percentile per-packet one-way delay: 139.169 ms
Loss rate: 0.90%
-- Flow 3:
Average throughput: 55.05 Mbit/s
95th percentile per-packet one-way delay: 138.202 ms
Loss rate: 4.93%
```

Run 4: Report of Indigo-MusesC3 — Data Link

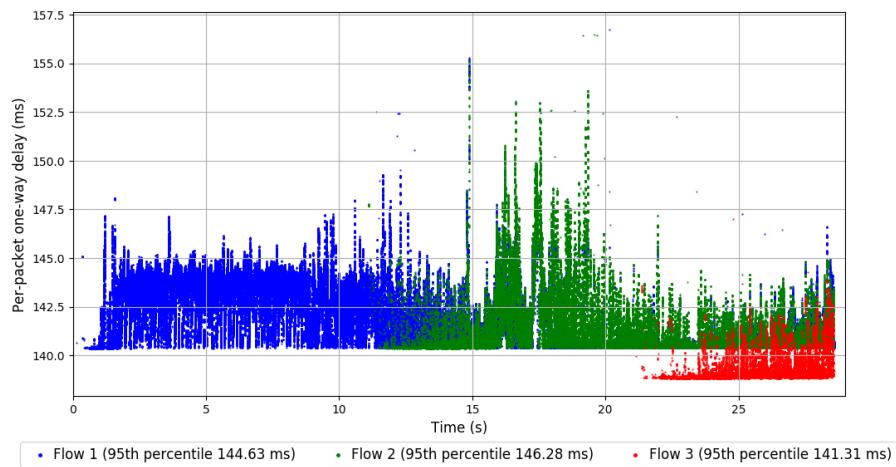
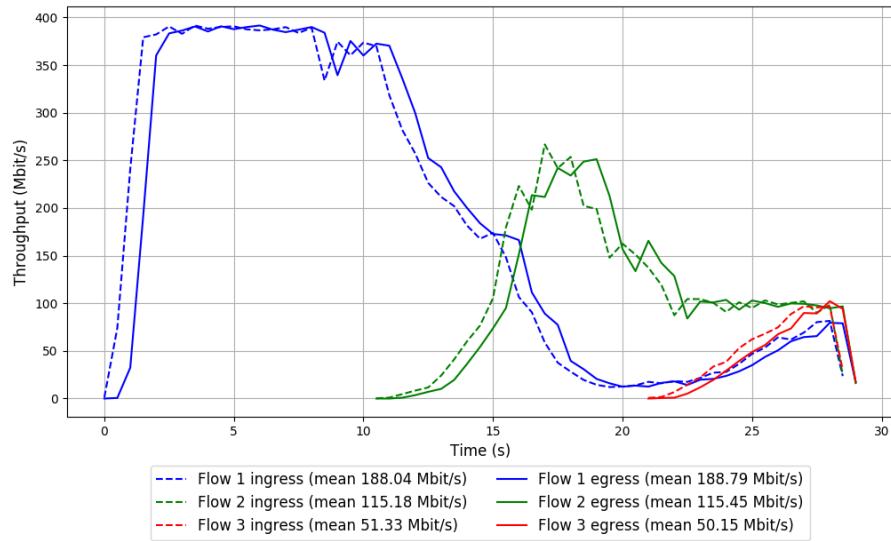


Run 5: Statistics of Indigo-MusesC3

```
Start at: 2019-01-22 06:11:42
End at: 2019-01-22 06:12:12
Local clock offset: 0.237 ms
Remote clock offset: -46.268 ms

# Below is generated by plot.py at 2019-01-22 06:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.57 Mbit/s
95th percentile per-packet one-way delay: 144.863 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 188.79 Mbit/s
95th percentile per-packet one-way delay: 144.626 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 115.45 Mbit/s
95th percentile per-packet one-way delay: 146.276 ms
Loss rate: 0.88%
-- Flow 3:
Average throughput: 50.15 Mbit/s
95th percentile per-packet one-way delay: 141.312 ms
Loss rate: 4.79%
```

Run 5: Report of Indigo-MusesC3 — Data Link

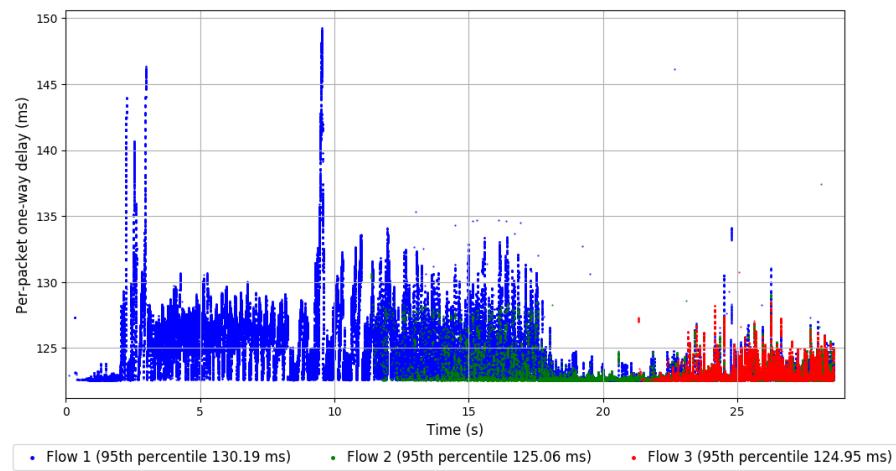
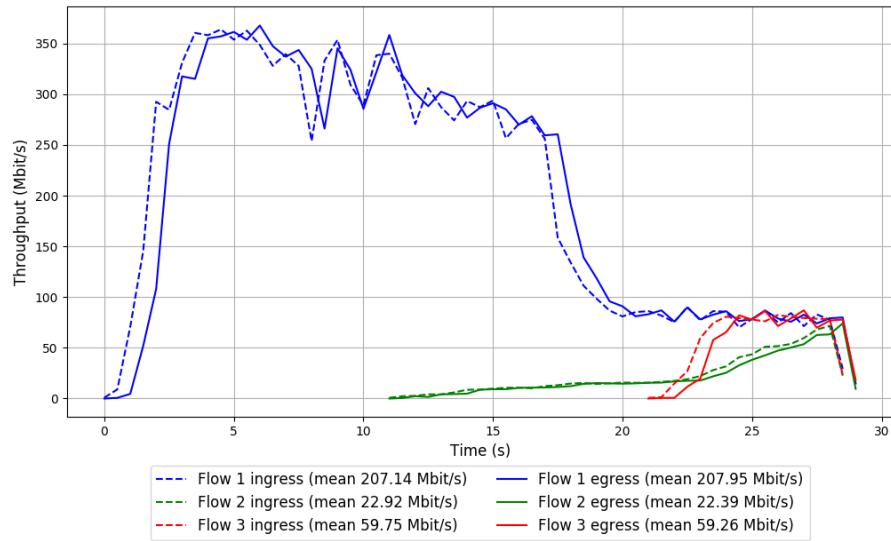


Run 1: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 02:33:10
End at: 2019-01-22 02:33:40
Local clock offset: -8.714 ms
Remote clock offset: -39.559 ms

# Below is generated by plot.py at 2019-01-22 06:38:24
# Datalink statistics
-- Total of 3 flows:
Average throughput: 237.14 Mbit/s
95th percentile per-packet one-way delay: 129.841 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 207.95 Mbit/s
95th percentile per-packet one-way delay: 130.194 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 22.39 Mbit/s
95th percentile per-packet one-way delay: 125.061 ms
Loss rate: 3.46%
-- Flow 3:
Average throughput: 59.26 Mbit/s
95th percentile per-packet one-way delay: 124.951 ms
Loss rate: 3.50%
```

Run 1: Report of Indigo-MusesC5 — Data Link

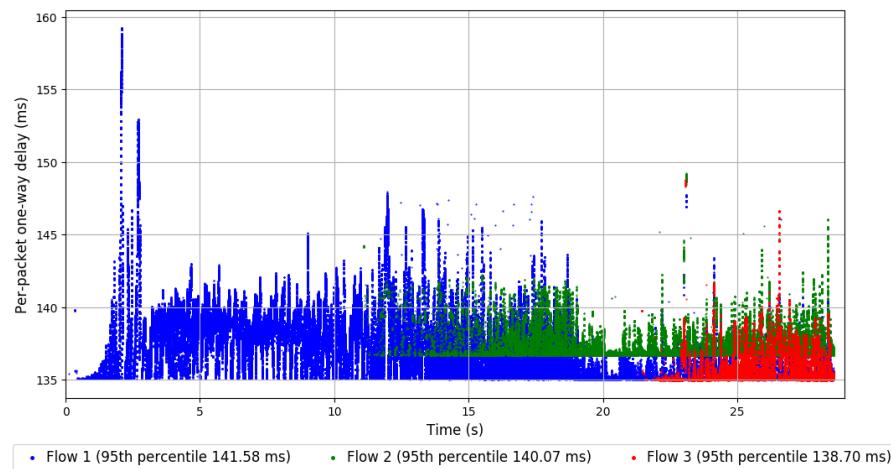
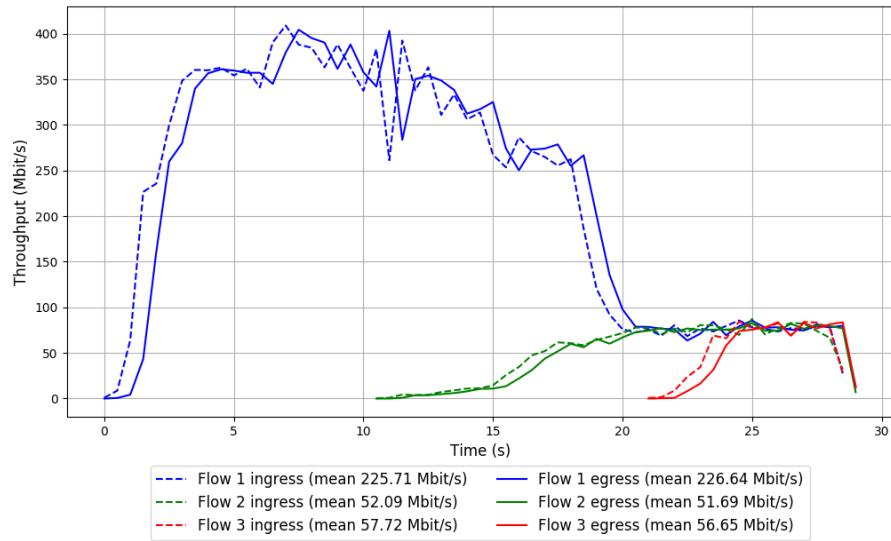


Run 2: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 03:19:41
End at: 2019-01-22 03:20:11
Local clock offset: 0.265 ms
Remote clock offset: -41.64 ms

# Below is generated by plot.py at 2019-01-22 06:38:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 273.39 Mbit/s
95th percentile per-packet one-way delay: 141.279 ms
Loss rate: 0.67%
-- Flow 1:
Average throughput: 226.64 Mbit/s
95th percentile per-packet one-way delay: 141.578 ms
Loss rate: 0.26%
-- Flow 2:
Average throughput: 51.69 Mbit/s
95th percentile per-packet one-way delay: 140.072 ms
Loss rate: 1.87%
-- Flow 3:
Average throughput: 56.65 Mbit/s
95th percentile per-packet one-way delay: 138.699 ms
Loss rate: 4.20%
```

Run 2: Report of Indigo-MusesC5 — Data Link

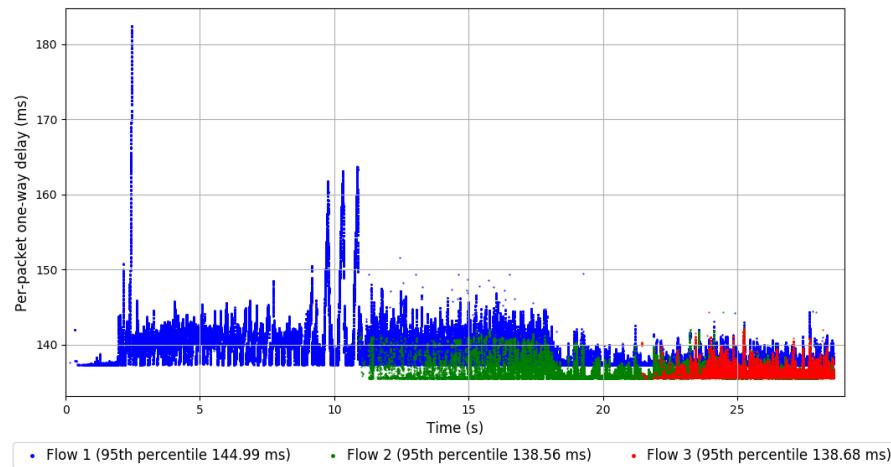
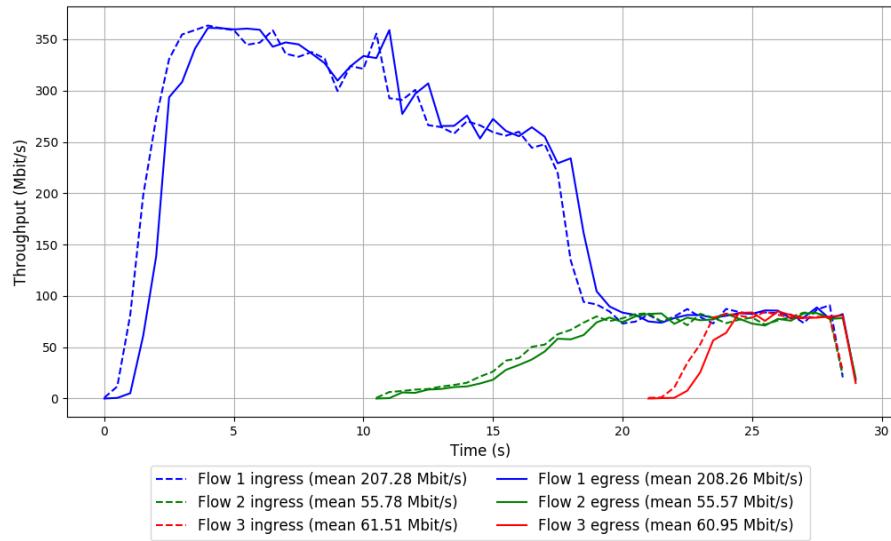


Run 3: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 03:50:42
End at: 2019-01-22 03:51:12
Local clock offset: -1.103 ms
Remote clock offset: -44.899 ms

# Below is generated by plot.py at 2019-01-22 06:38:35
# Datalink statistics
-- Total of 3 flows:
Average throughput: 258.76 Mbit/s
95th percentile per-packet one-way delay: 144.357 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 208.26 Mbit/s
95th percentile per-packet one-way delay: 144.990 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 55.57 Mbit/s
95th percentile per-packet one-way delay: 138.559 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 60.95 Mbit/s
95th percentile per-packet one-way delay: 138.680 ms
Loss rate: 3.48%
```

Run 3: Report of Indigo-MusesC5 — Data Link

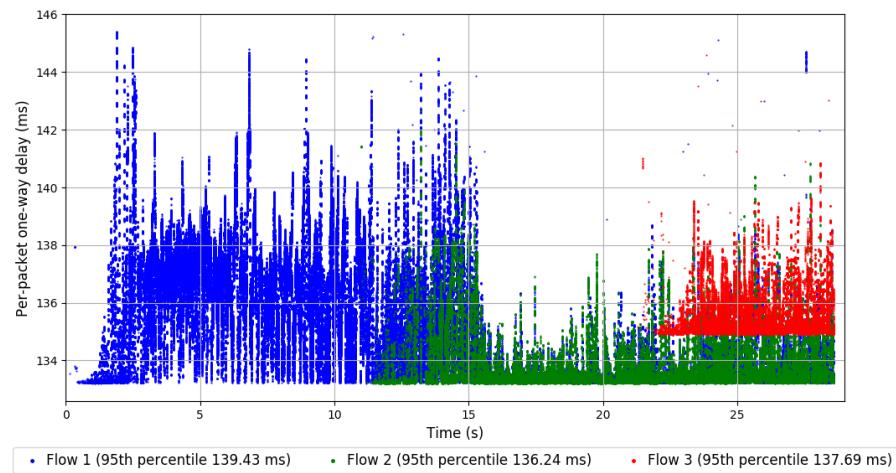
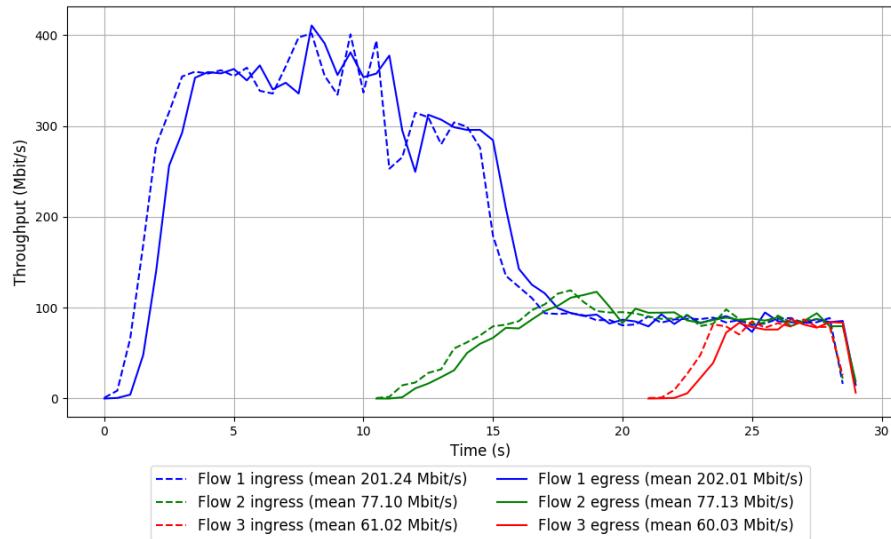


Run 4: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 04:42:06
End at: 2019-01-22 04:42:36
Local clock offset: 0.852 ms
Remote clock offset: -40.684 ms

# Below is generated by plot.py at 2019-01-22 06:39:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 265.55 Mbit/s
95th percentile per-packet one-way delay: 139.037 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 202.01 Mbit/s
95th percentile per-packet one-way delay: 139.427 ms
Loss rate: 0.24%
-- Flow 2:
Average throughput: 77.13 Mbit/s
95th percentile per-packet one-way delay: 136.236 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 60.03 Mbit/s
95th percentile per-packet one-way delay: 137.690 ms
Loss rate: 4.13%
```

Run 4: Report of Indigo-MusesC5 — Data Link

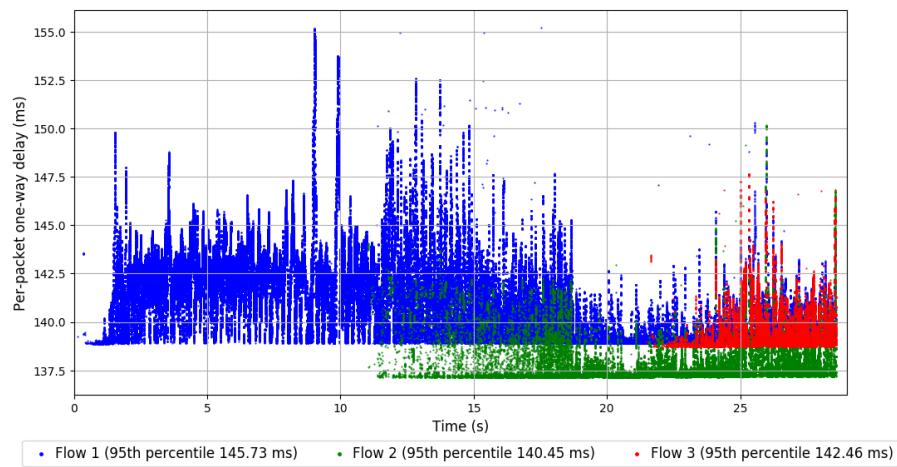
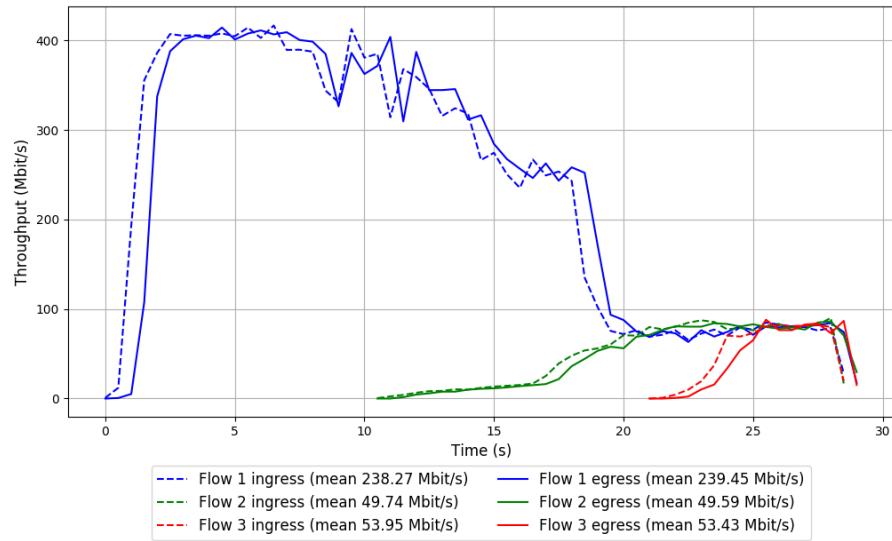


Run 5: Statistics of Indigo-MusesC5

```
Start at: 2019-01-22 05:40:06
End at: 2019-01-22 05:40:36
Local clock offset: -0.184 ms
Remote clock offset: -45.433 ms

# Below is generated by plot.py at 2019-01-22 06:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 283.73 Mbit/s
95th percentile per-packet one-way delay: 145.386 ms
Loss rate: 0.50%
-- Flow 1:
Average throughput: 239.45 Mbit/s
95th percentile per-packet one-way delay: 145.727 ms
Loss rate: 0.22%
-- Flow 2:
Average throughput: 49.59 Mbit/s
95th percentile per-packet one-way delay: 140.449 ms
Loss rate: 1.35%
-- Flow 3:
Average throughput: 53.43 Mbit/s
95th percentile per-packet one-way delay: 142.464 ms
Loss rate: 3.41%
```

Run 5: Report of Indigo-MusesC5 — Data Link

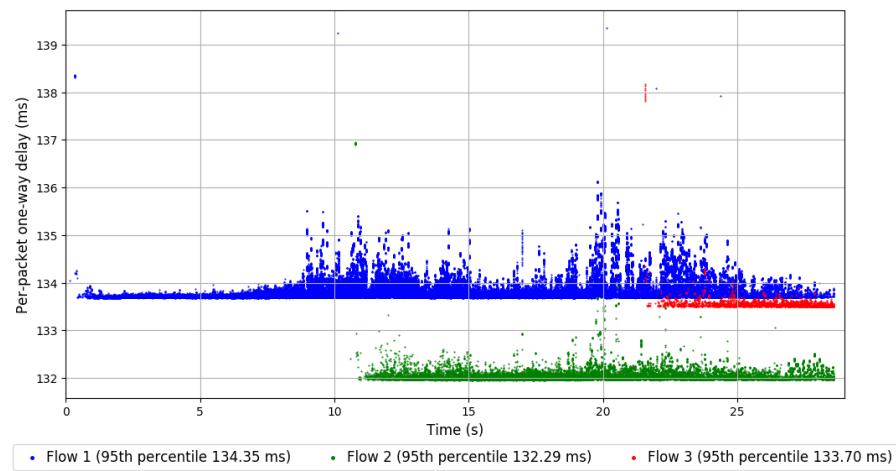
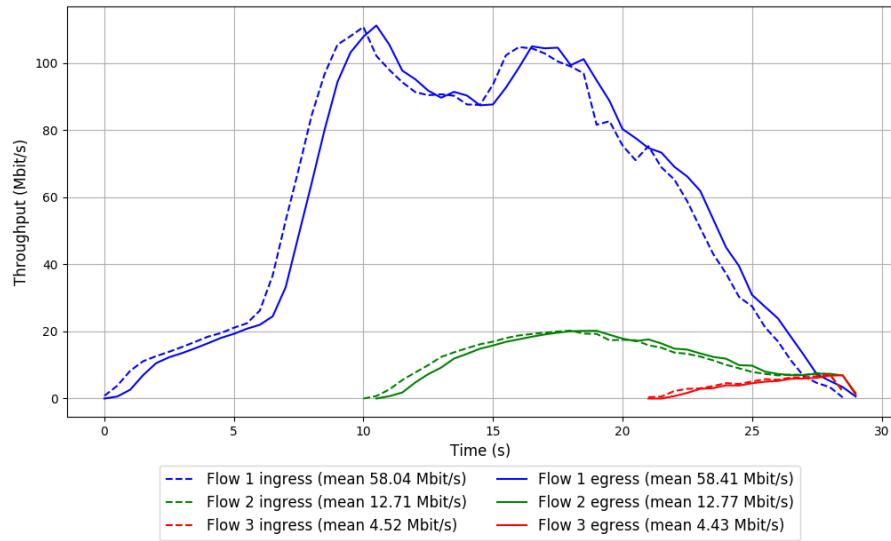


Run 1: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 02:30:18
End at: 2019-01-22 02:30:48
Local clock offset: 1.235 ms
Remote clock offset: -39.009 ms

# Below is generated by plot.py at 2019-01-22 06:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 67.60 Mbit/s
95th percentile per-packet one-way delay: 134.304 ms
Loss rate: 0.17%
-- Flow 1:
Average throughput: 58.41 Mbit/s
95th percentile per-packet one-way delay: 134.354 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 12.77 Mbit/s
95th percentile per-packet one-way delay: 132.286 ms
Loss rate: 0.59%
-- Flow 3:
Average throughput: 4.43 Mbit/s
95th percentile per-packet one-way delay: 133.701 ms
Loss rate: 4.60%
```

Run 1: Report of Indigo-MusesD — Data Link

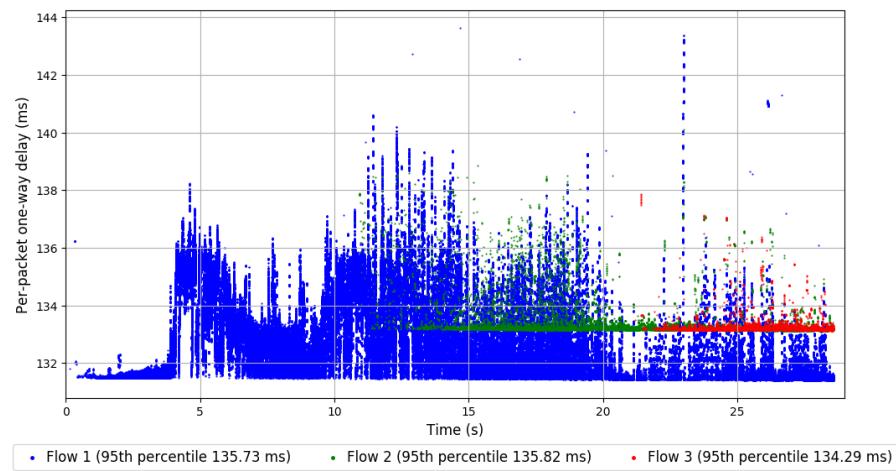
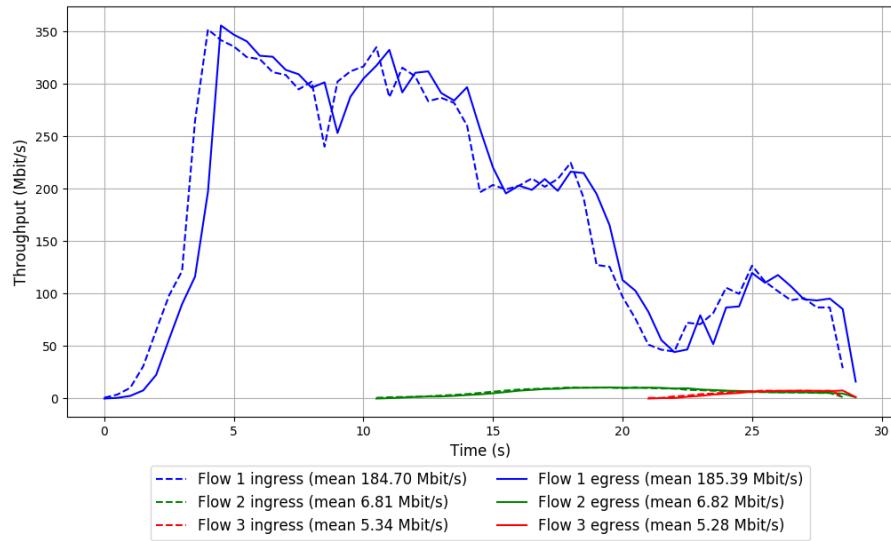


Run 2: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 03:16:43
End at: 2019-01-22 03:17:13
Local clock offset: -1.318 ms
Remote clock offset: -39.089 ms

# Below is generated by plot.py at 2019-01-22 06:39:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 191.03 Mbit/s
95th percentile per-packet one-way delay: 135.724 ms
Loss rate: 0.35%
-- Flow 1:
Average throughput: 185.39 Mbit/s
95th percentile per-packet one-way delay: 135.726 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 6.82 Mbit/s
95th percentile per-packet one-way delay: 135.821 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 5.28 Mbit/s
95th percentile per-packet one-way delay: 134.292 ms
Loss rate: 3.69%
```

Run 2: Report of Indigo-MusesD — Data Link

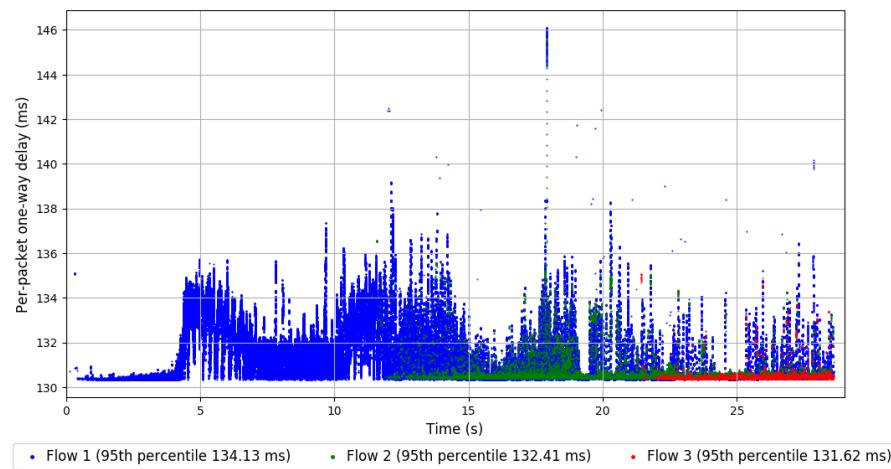
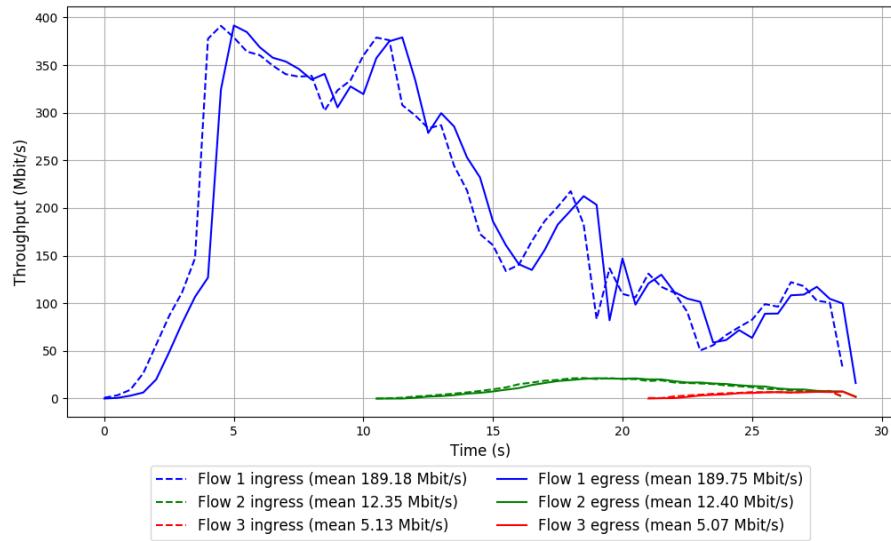


Run 3: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 03:47:45
End at: 2019-01-22 03:48:15
Local clock offset: -1.758 ms
Remote clock offset: -40.47 ms

# Below is generated by plot.py at 2019-01-22 06:40:03
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.76 Mbit/s
95th percentile per-packet one-way delay: 134.118 ms
Loss rate: 0.41%
-- Flow 1:
Average throughput: 189.75 Mbit/s
95th percentile per-packet one-way delay: 134.133 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 12.40 Mbit/s
95th percentile per-packet one-way delay: 132.406 ms
Loss rate: 0.46%
-- Flow 3:
Average throughput: 5.07 Mbit/s
95th percentile per-packet one-way delay: 131.619 ms
Loss rate: 3.63%
```

Run 3: Report of Indigo-MusesD — Data Link

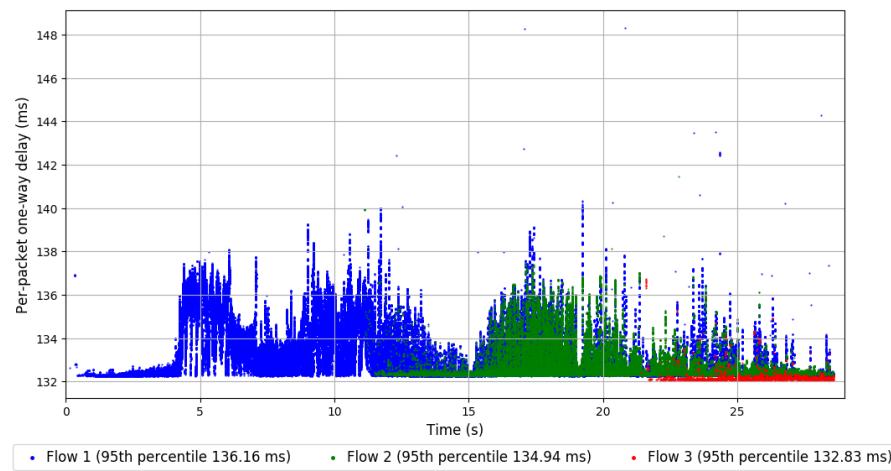
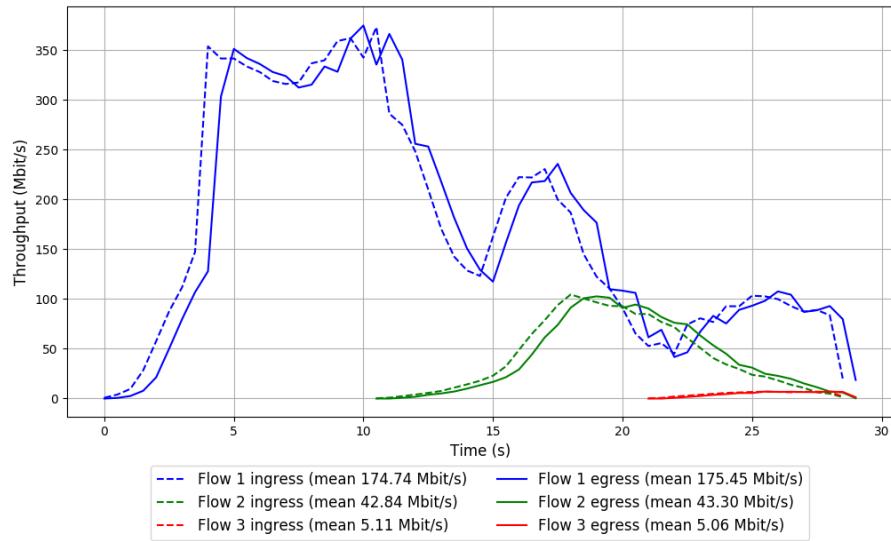


Run 4: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 04:38:54
End at: 2019-01-22 04:39:24
Local clock offset: -0.921 ms
Remote clock offset: -39.812 ms

# Below is generated by plot.py at 2019-01-22 06:40:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 203.58 Mbit/s
95th percentile per-packet one-way delay: 136.094 ms
Loss rate: 0.28%
-- Flow 1:
Average throughput: 175.45 Mbit/s
95th percentile per-packet one-way delay: 136.163 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 43.30 Mbit/s
95th percentile per-packet one-way delay: 134.938 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 5.06 Mbit/s
95th percentile per-packet one-way delay: 132.832 ms
Loss rate: 3.48%
```

Run 4: Report of Indigo-MusesD — Data Link

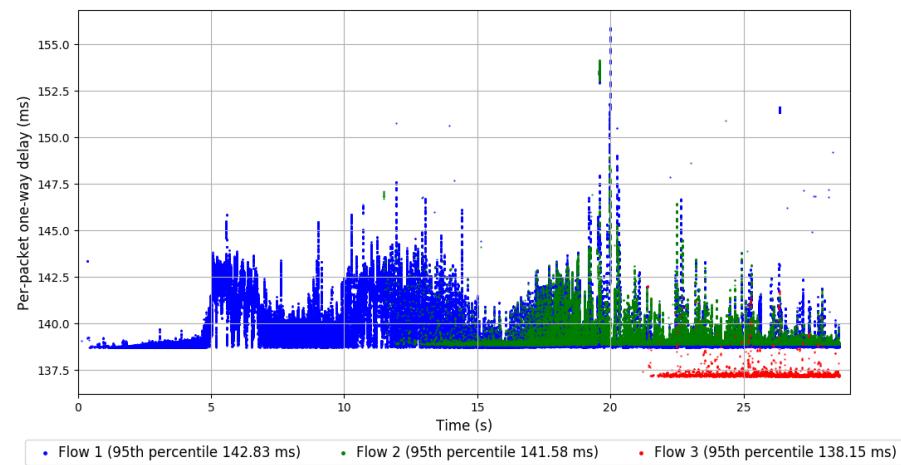
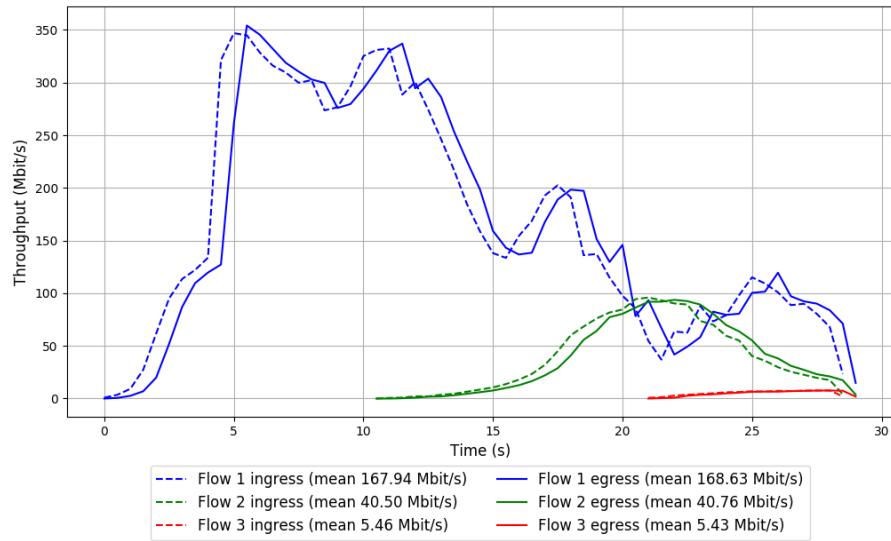


Run 5: Statistics of Indigo-MusesD

```
Start at: 2019-01-22 05:31:39
End at: 2019-01-22 05:32:09
Local clock offset: -0.512 ms
Remote clock offset: -45.952 ms

# Below is generated by plot.py at 2019-01-22 06:40:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 195.57 Mbit/s
95th percentile per-packet one-way delay: 142.787 ms
Loss rate: 0.31%
-- Flow 1:
Average throughput: 168.63 Mbit/s
95th percentile per-packet one-way delay: 142.831 ms
Loss rate: 0.28%
-- Flow 2:
Average throughput: 40.76 Mbit/s
95th percentile per-packet one-way delay: 141.583 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 5.43 Mbit/s
95th percentile per-packet one-way delay: 138.153 ms
Loss rate: 3.11%
```

Run 5: Report of Indigo-MusesD — Data Link

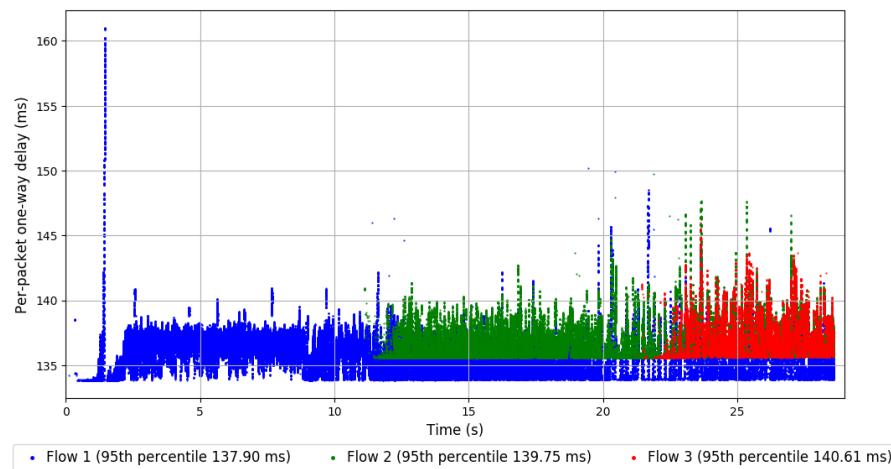
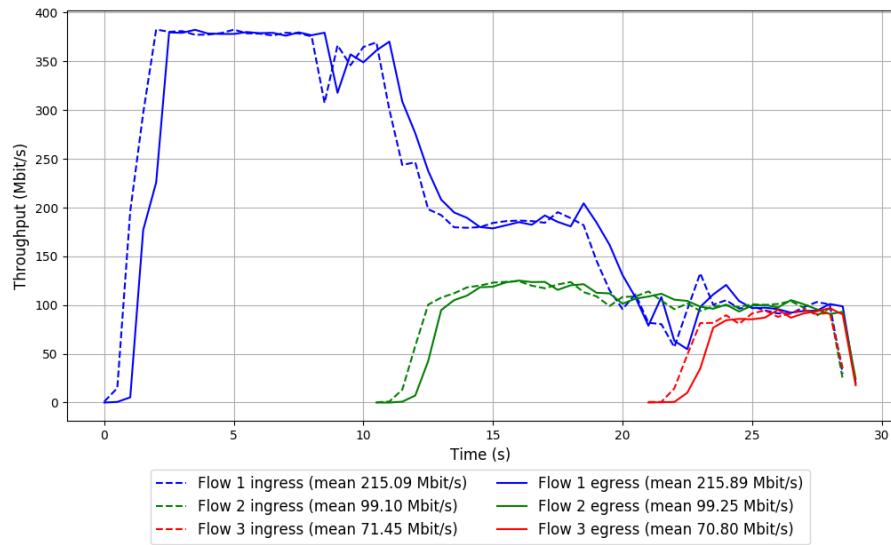


Run 1: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 02:54:39
End at: 2019-01-22 02:55:09
Local clock offset: 0.641 ms
Remote clock offset: -39.872 ms

# Below is generated by plot.py at 2019-01-22 06:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 295.74 Mbit/s
95th percentile per-packet one-way delay: 138.774 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 215.89 Mbit/s
95th percentile per-packet one-way delay: 137.902 ms
Loss rate: 0.31%
-- Flow 2:
Average throughput: 99.25 Mbit/s
95th percentile per-packet one-way delay: 139.753 ms
Loss rate: 0.94%
-- Flow 3:
Average throughput: 70.80 Mbit/s
95th percentile per-packet one-way delay: 140.610 ms
Loss rate: 3.64%
```

Run 1: Report of Indigo-MusesT — Data Link

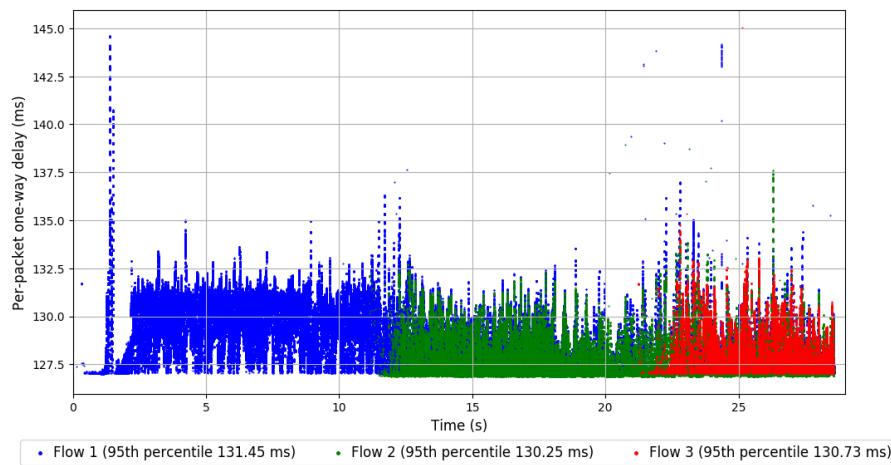
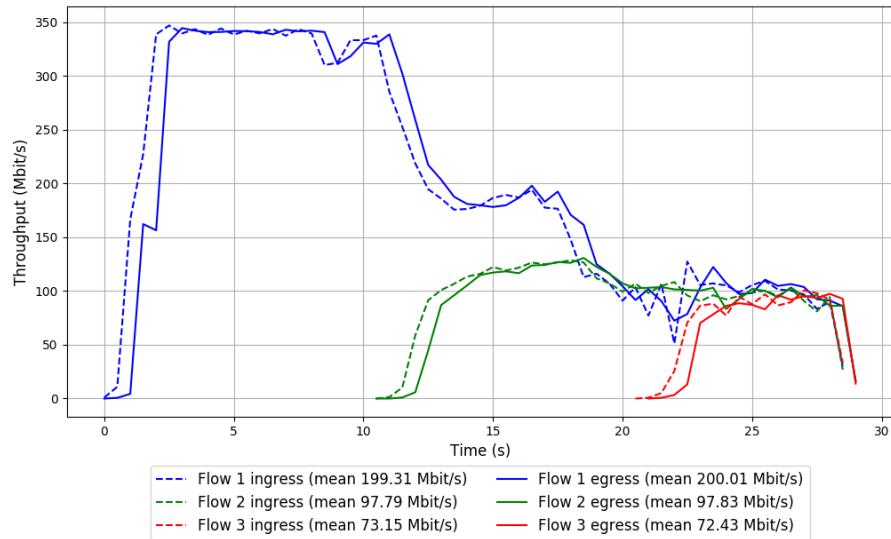


Run 2: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 03:35:34
End at: 2019-01-22 03:36:04
Local clock offset: -0.362 ms
Remote clock offset: -33.83 ms

# Below is generated by plot.py at 2019-01-22 06:41:39
# Datalink statistics
-- Total of 3 flows:
Average throughput: 279.87 Mbit/s
95th percentile per-packet one-way delay: 131.319 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 200.01 Mbit/s
95th percentile per-packet one-way delay: 131.447 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 97.83 Mbit/s
95th percentile per-packet one-way delay: 130.248 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 72.43 Mbit/s
95th percentile per-packet one-way delay: 130.732 ms
Loss rate: 3.66%
```

Run 2: Report of Indigo-MusesT — Data Link

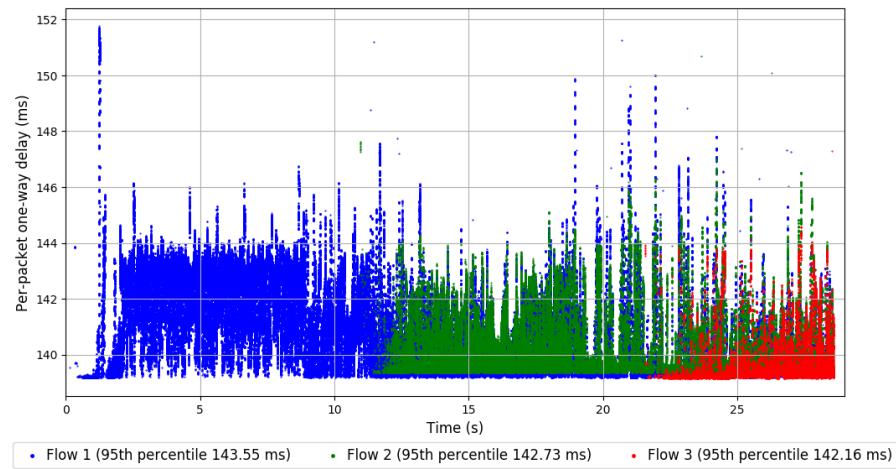
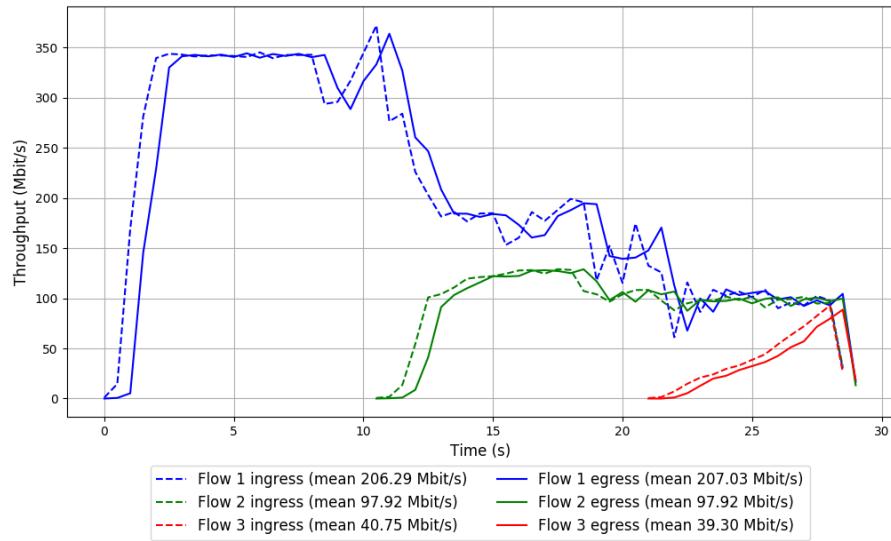


Run 3: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 04:11:09
End at: 2019-01-22 04:11:39
Local clock offset: 0.229 ms
Remote clock offset: -45.684 ms

# Below is generated by plot.py at 2019-01-22 06:42:12
# Datalink statistics
-- Total of 3 flows:
Average throughput: 278.29 Mbit/s
95th percentile per-packet one-way delay: 143.459 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 207.03 Mbit/s
95th percentile per-packet one-way delay: 143.548 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 97.92 Mbit/s
95th percentile per-packet one-way delay: 142.734 ms
Loss rate: 1.18%
-- Flow 3:
Average throughput: 39.30 Mbit/s
95th percentile per-packet one-way delay: 142.157 ms
Loss rate: 6.12%
```

Run 3: Report of Indigo-MusesT — Data Link

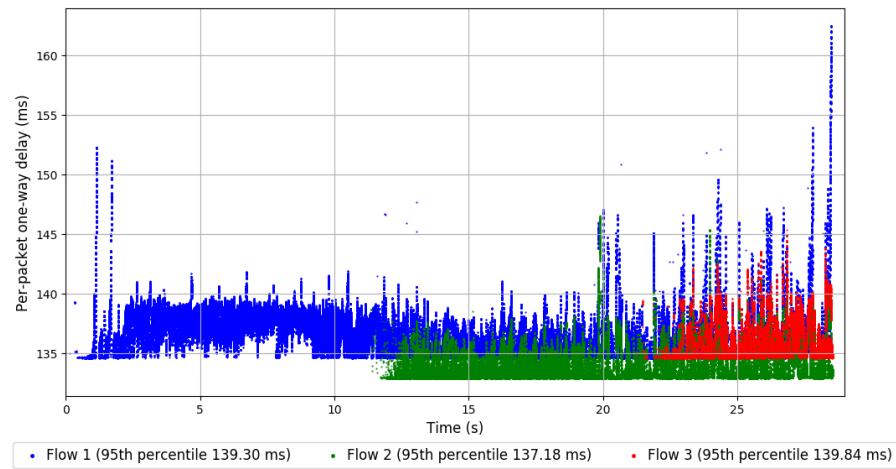
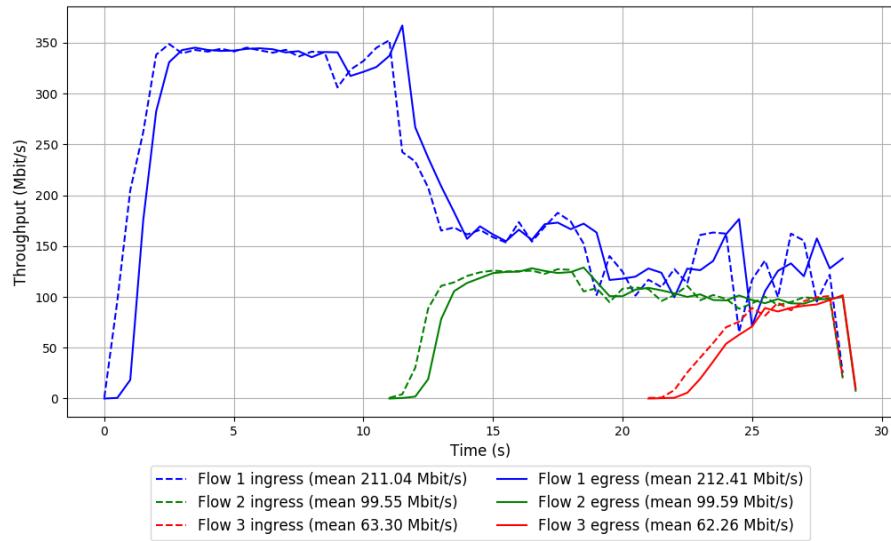


Run 4: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 05:07:39
End at: 2019-01-22 05:08:09
Local clock offset: 1.88 ms
Remote clock offset: -40.393 ms

# Below is generated by plot.py at 2019-01-22 06:42:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 288.85 Mbit/s
95th percentile per-packet one-way delay: 139.154 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 212.41 Mbit/s
95th percentile per-packet one-way delay: 139.299 ms
Loss rate: 0.23%
-- Flow 2:
Average throughput: 99.59 Mbit/s
95th percentile per-packet one-way delay: 137.182 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 62.26 Mbit/s
95th percentile per-packet one-way delay: 139.839 ms
Loss rate: 4.11%
```

Run 4: Report of Indigo-MusesT — Data Link

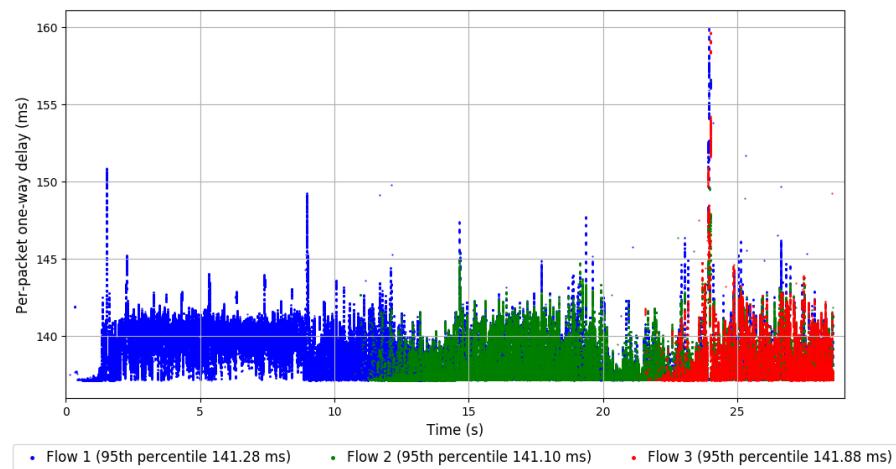
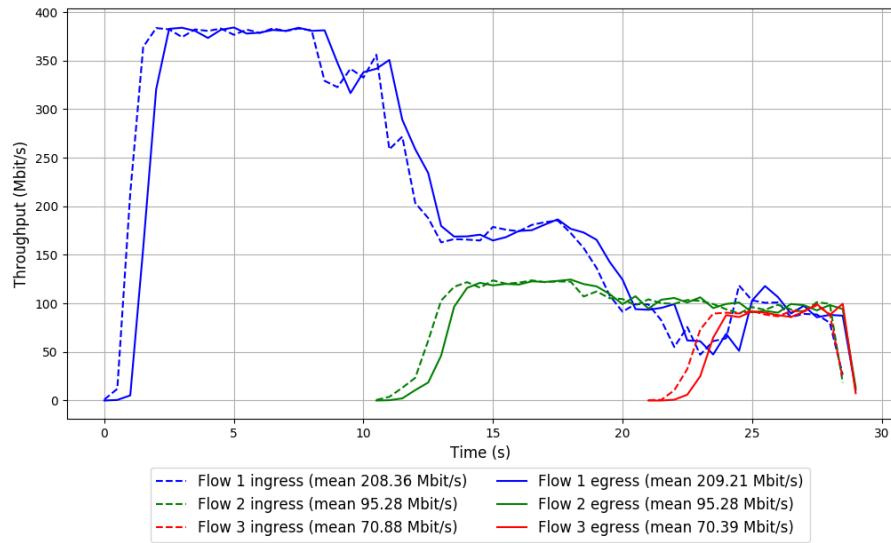


Run 5: Statistics of Indigo-MusesT

```
Start at: 2019-01-22 06:01:33
End at: 2019-01-22 06:02:03
Local clock offset: 1.301 ms
Remote clock offset: -44.584 ms

# Below is generated by plot.py at 2019-01-22 06:42:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.72 Mbit/s
95th percentile per-packet one-way delay: 141.284 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 209.21 Mbit/s
95th percentile per-packet one-way delay: 141.284 ms
Loss rate: 0.29%
-- Flow 2:
Average throughput: 95.28 Mbit/s
95th percentile per-packet one-way delay: 141.104 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 70.39 Mbit/s
95th percentile per-packet one-way delay: 141.885 ms
Loss rate: 3.43%
```

Run 5: Report of Indigo-MusesT — Data Link

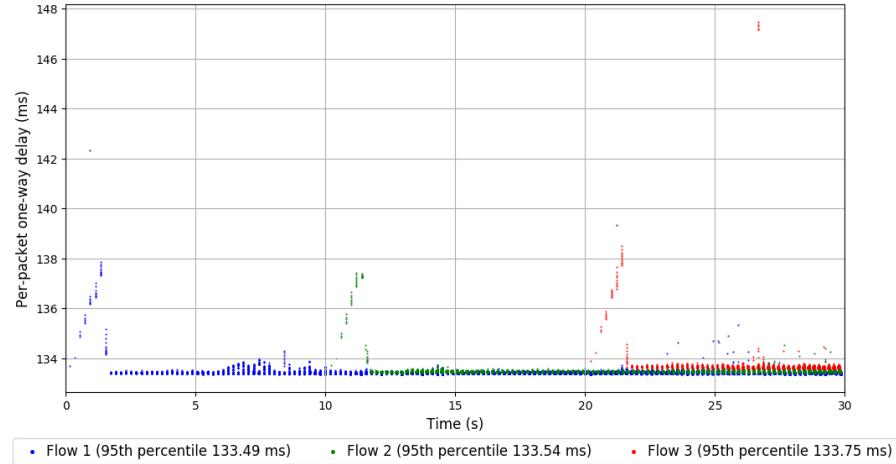
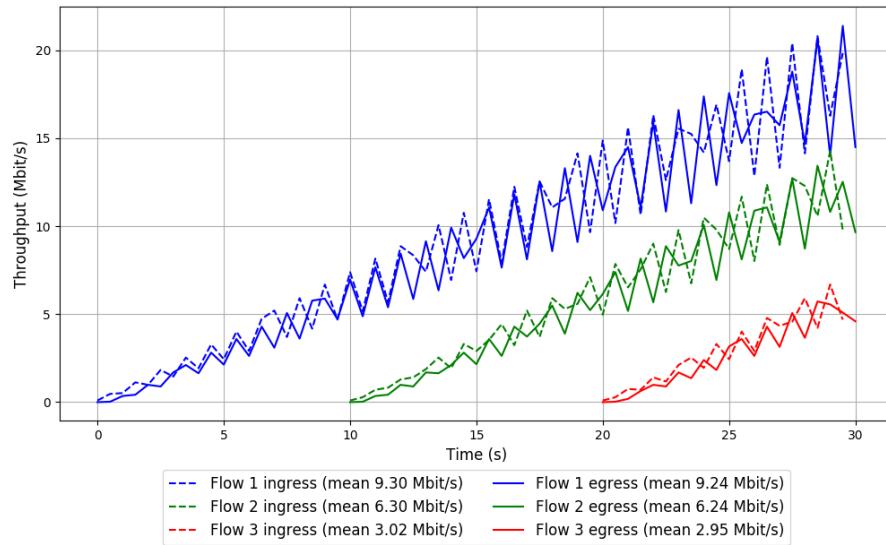


Run 1: Statistics of LEDBAT

```
Start at: 2019-01-22 03:13:39
End at: 2019-01-22 03:14:09
Local clock offset: -1.876 ms
Remote clock offset: -39.522 ms

# Below is generated by plot.py at 2019-01-22 06:42:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.30 Mbit/s
95th percentile per-packet one-way delay: 133.637 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 9.24 Mbit/s
95th percentile per-packet one-way delay: 133.488 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 6.24 Mbit/s
95th percentile per-packet one-way delay: 133.542 ms
Loss rate: 1.97%
-- Flow 3:
Average throughput: 2.95 Mbit/s
95th percentile per-packet one-way delay: 133.747 ms
Loss rate: 4.02%
```

Run 1: Report of LEDBAT — Data Link

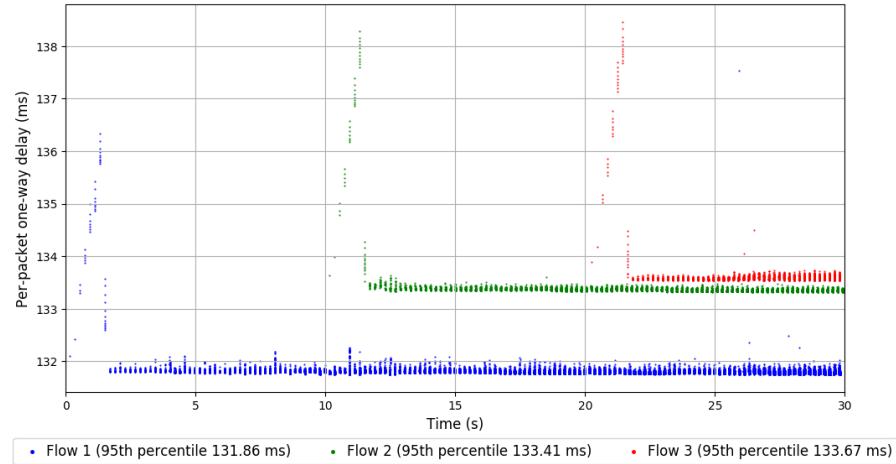
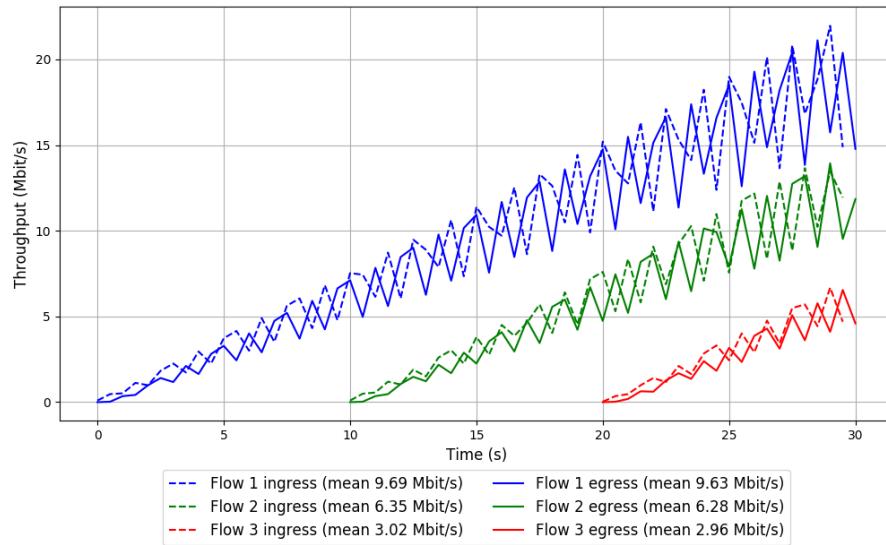


Run 2: Statistics of LEDBAT

```
Start at: 2019-01-22 03:44:49
End at: 2019-01-22 03:45:19
Local clock offset: 0.222 ms
Remote clock offset: -39.898 ms

# Below is generated by plot.py at 2019-01-22 06:42:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.72 Mbit/s
95th percentile per-packet one-way delay: 133.563 ms
Loss rate: 1.65%
-- Flow 1:
Average throughput: 9.63 Mbit/s
95th percentile per-packet one-way delay: 131.860 ms
Loss rate: 1.29%
-- Flow 2:
Average throughput: 6.28 Mbit/s
95th percentile per-packet one-way delay: 133.410 ms
Loss rate: 1.94%
-- Flow 3:
Average throughput: 2.96 Mbit/s
95th percentile per-packet one-way delay: 133.672 ms
Loss rate: 4.03%
```

Run 2: Report of LEDBAT — Data Link

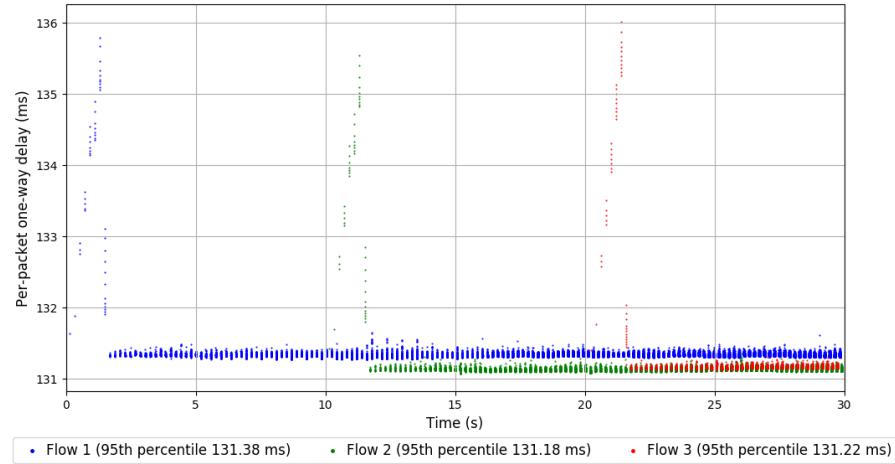
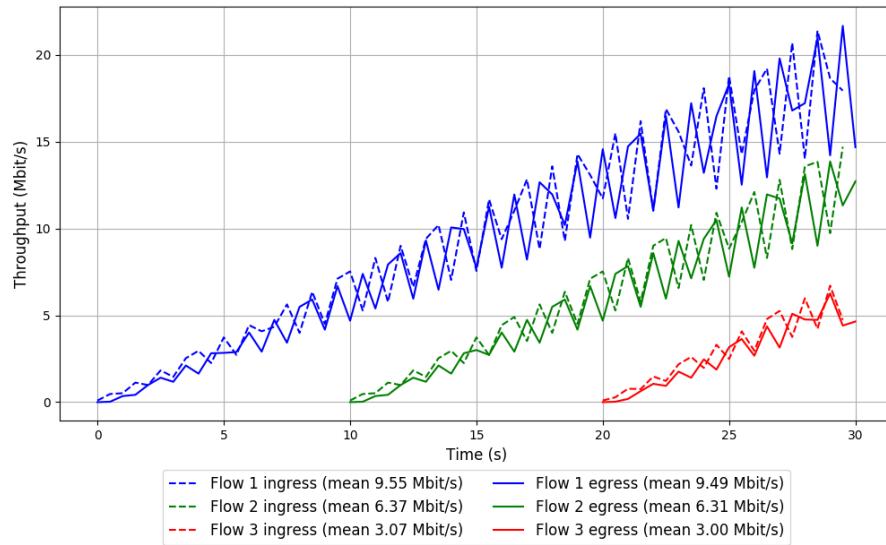


Run 3: Statistics of LEDBAT

```
Start at: 2019-01-22 04:26:24
End at: 2019-01-22 04:26:54
Local clock offset: -0.832 ms
Remote clock offset: -38.58 ms

# Below is generated by plot.py at 2019-01-22 06:42:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.62 Mbit/s
95th percentile per-packet one-way delay: 131.377 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 9.49 Mbit/s
95th percentile per-packet one-way delay: 131.384 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 6.31 Mbit/s
95th percentile per-packet one-way delay: 131.181 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 3.00 Mbit/s
95th percentile per-packet one-way delay: 131.220 ms
Loss rate: 4.01%
```

Run 3: Report of LEDBAT — Data Link

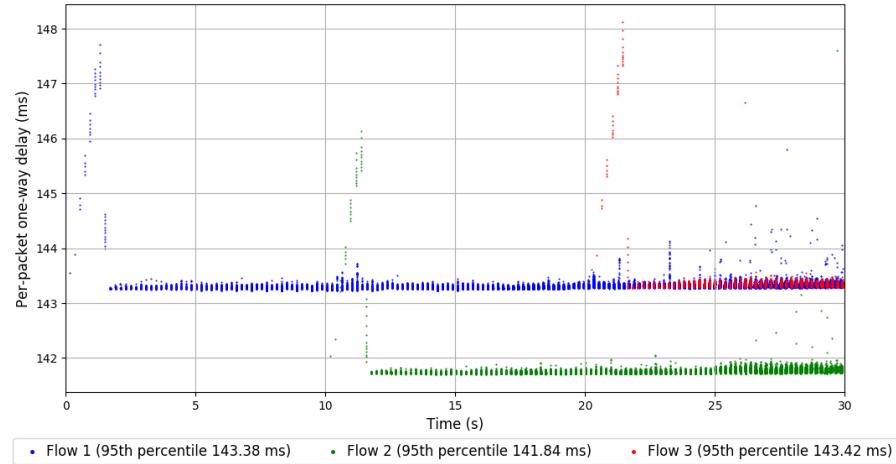
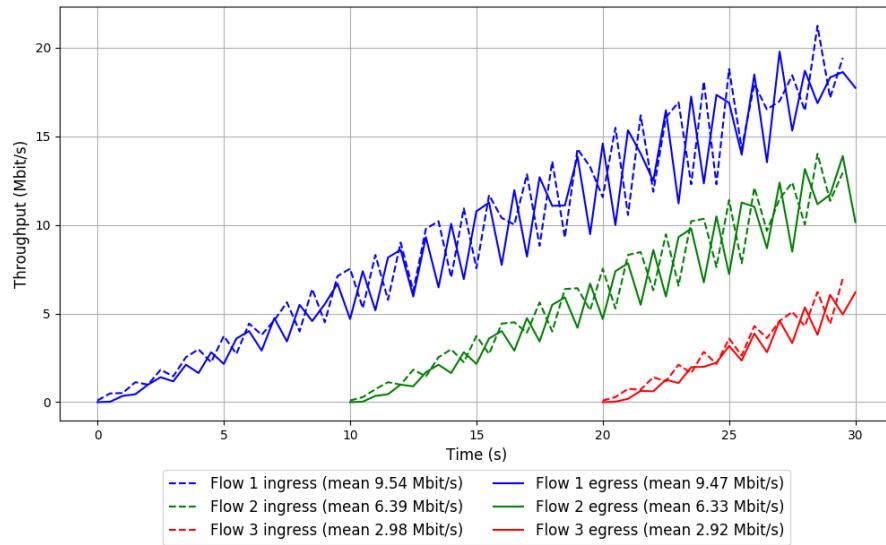


Run 4: Statistics of LEDBAT

```
Start at: 2019-01-22 05:23:00
End at: 2019-01-22 05:23:30
Local clock offset: 1.206 ms
Remote clock offset: -49.085 ms

# Below is generated by plot.py at 2019-01-22 06:42:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.61 Mbit/s
95th percentile per-packet one-way delay: 143.377 ms
Loss rate: 1.67%
-- Flow 1:
Average throughput: 9.47 Mbit/s
95th percentile per-packet one-way delay: 143.379 ms
Loss rate: 1.30%
-- Flow 2:
Average throughput: 6.33 Mbit/s
95th percentile per-packet one-way delay: 141.837 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 143.424 ms
Loss rate: 4.03%
```

Run 4: Report of LEDBAT — Data Link

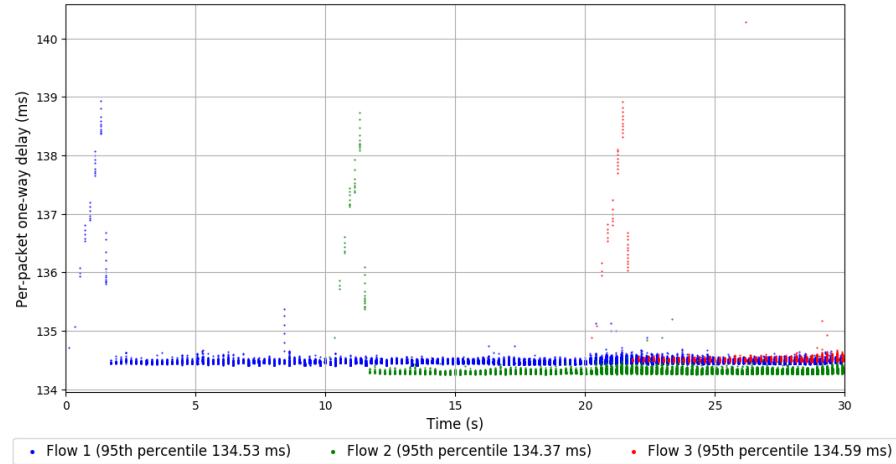
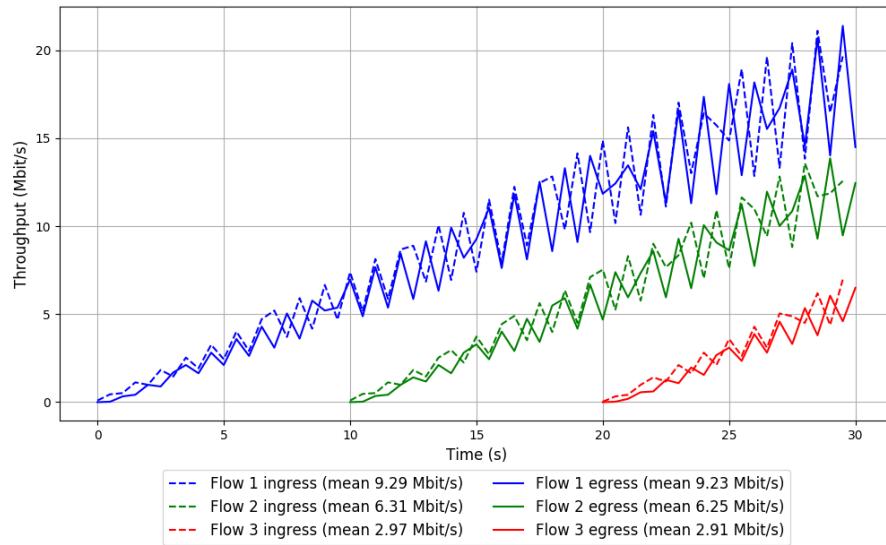


Run 5: Statistics of LEDBAT

```
Start at: 2019-01-22 06:16:23
End at: 2019-01-22 06:16:53
Local clock offset: -0.208 ms
Remote clock offset: -40.272 ms

# Below is generated by plot.py at 2019-01-22 06:42:50
# Datalink statistics
-- Total of 3 flows:
Average throughput: 14.31 Mbit/s
95th percentile per-packet one-way delay: 134.525 ms
Loss rate: 1.69%
-- Flow 1:
Average throughput: 9.23 Mbit/s
95th percentile per-packet one-way delay: 134.525 ms
Loss rate: 1.32%
-- Flow 2:
Average throughput: 6.25 Mbit/s
95th percentile per-packet one-way delay: 134.367 ms
Loss rate: 1.95%
-- Flow 3:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 134.589 ms
Loss rate: 4.04%
```

Run 5: Report of LEDBAT — Data Link

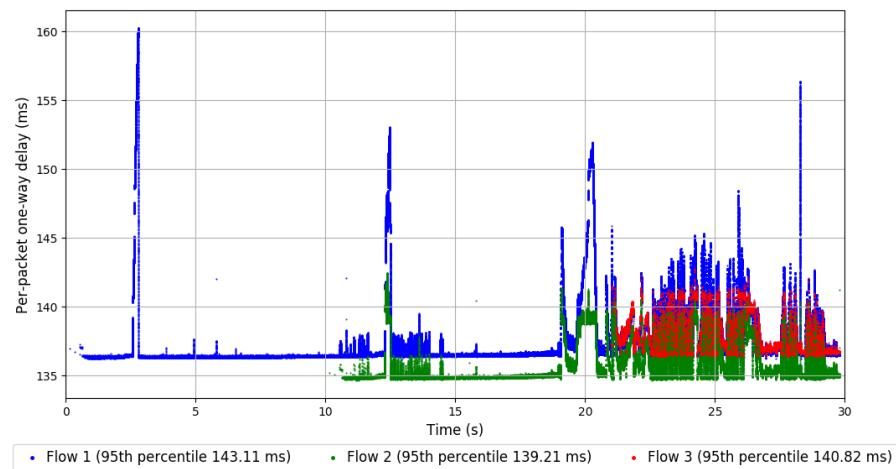
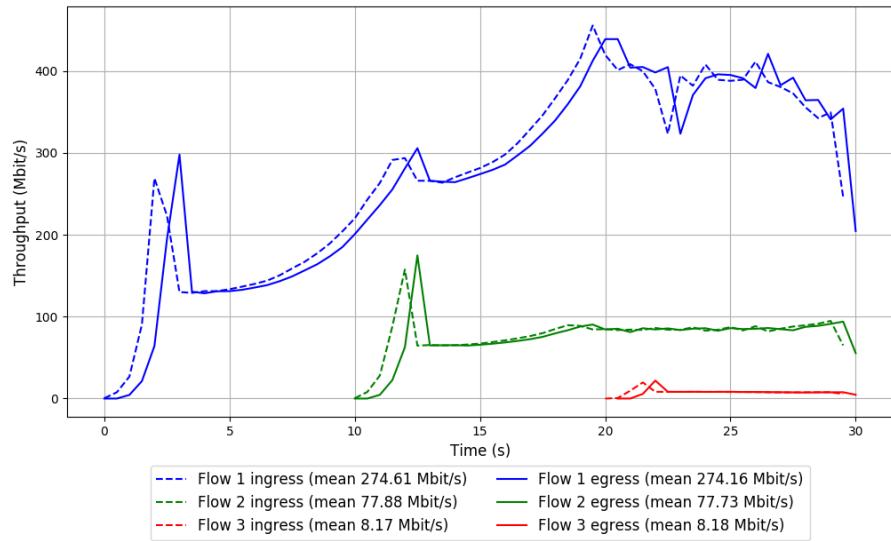


```
Run 1: Statistics of PCC-Allegro
```

```
Start at: 2019-01-22 02:34:40
End at: 2019-01-22 02:35:10
Local clock offset: -1.595 ms
Remote clock offset: -44.666 ms

# Below is generated by plot.py at 2019-01-22 06:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 328.15 Mbit/s
95th percentile per-packet one-way delay: 142.468 ms
Loss rate: 0.89%
-- Flow 1:
Average throughput: 274.16 Mbit/s
95th percentile per-packet one-way delay: 143.114 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 77.73 Mbit/s
95th percentile per-packet one-way delay: 139.213 ms
Loss rate: 1.14%
-- Flow 3:
Average throughput: 8.18 Mbit/s
95th percentile per-packet one-way delay: 140.818 ms
Loss rate: 1.95%
```

Run 1: Report of PCC-Allegro — Data Link

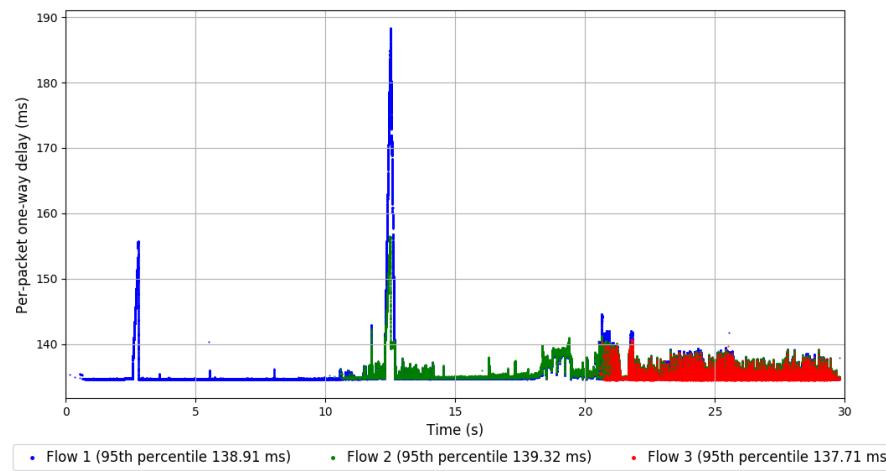
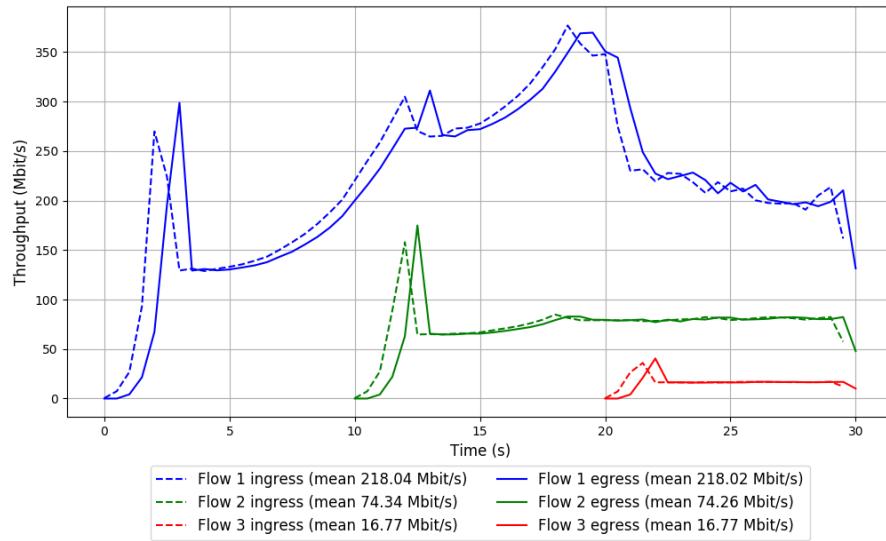


Run 2: Statistics of PCC-Allegro

```
Start at: 2019-01-22 03:21:12
End at: 2019-01-22 03:21:42
Local clock offset: -1.106 ms
Remote clock offset: -41.277 ms

# Below is generated by plot.py at 2019-01-22 06:44:08
# Datalink statistics
-- Total of 3 flows:
Average throughput: 272.64 Mbit/s
95th percentile per-packet one-way delay: 138.954 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 218.02 Mbit/s
95th percentile per-packet one-way delay: 138.912 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 74.26 Mbit/s
95th percentile per-packet one-way delay: 139.324 ms
Loss rate: 1.07%
-- Flow 3:
Average throughput: 16.77 Mbit/s
95th percentile per-packet one-way delay: 137.706 ms
Loss rate: 2.01%
```

Run 2: Report of PCC-Allegro — Data Link

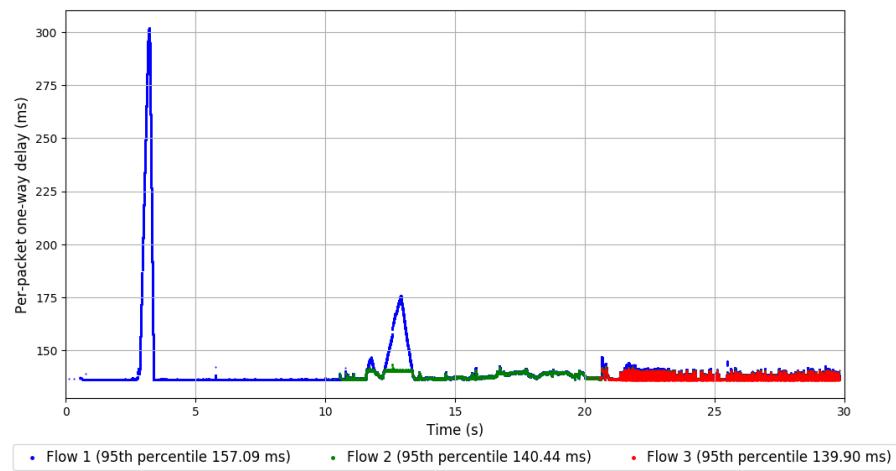
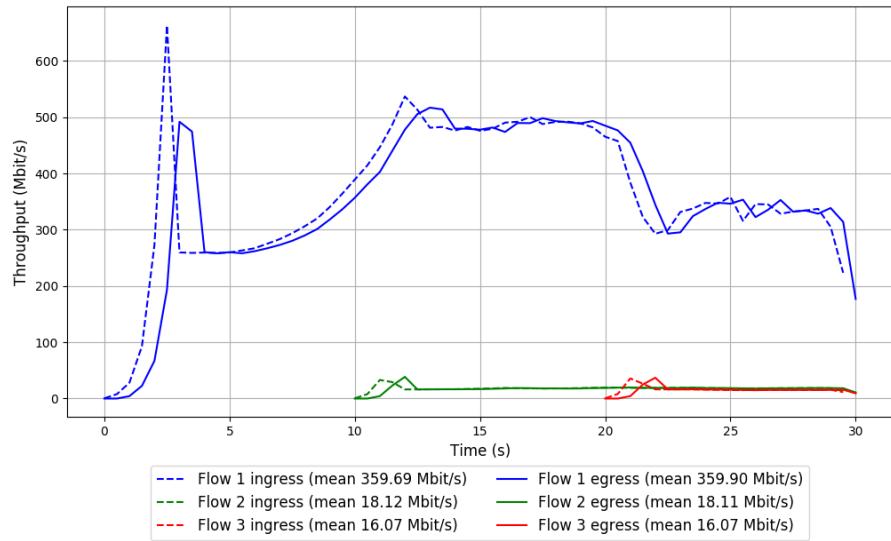


Run 3: Statistics of PCC-Allegro

```
Start at: 2019-01-22 03:52:13
End at: 2019-01-22 03:52:43
Local clock offset: 1.239 ms
Remote clock offset: -41.395 ms

# Below is generated by plot.py at 2019-01-22 06:44:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 377.10 Mbit/s
95th percentile per-packet one-way delay: 155.663 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 359.90 Mbit/s
95th percentile per-packet one-way delay: 157.090 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 18.11 Mbit/s
95th percentile per-packet one-way delay: 140.436 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 16.07 Mbit/s
95th percentile per-packet one-way delay: 139.899 ms
Loss rate: 2.02%
```

Run 3: Report of PCC-Allegro — Data Link

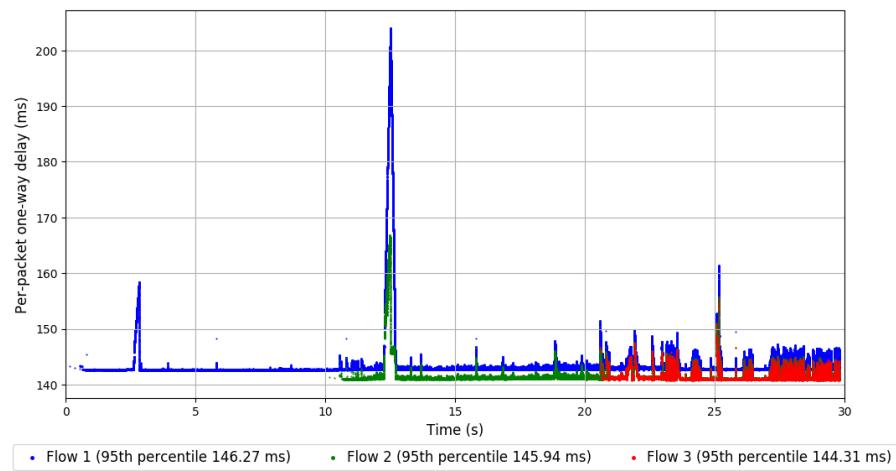
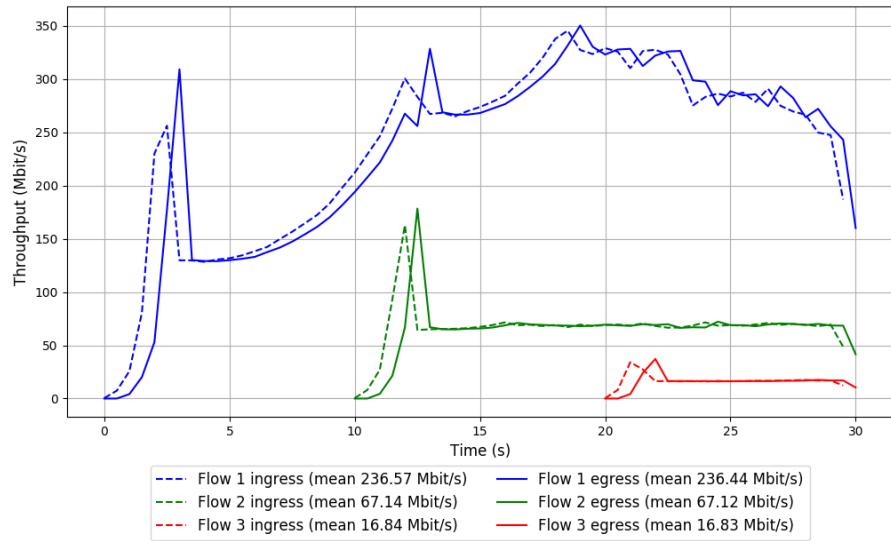


Run 4: Statistics of PCC-Allegro

```
Start at: 2019-01-22 04:43:36
End at: 2019-01-22 04:44:06
Local clock offset: 1.318 ms
Remote clock offset: -47.957 ms

# Below is generated by plot.py at 2019-01-22 06:44:49
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.39 Mbit/s
95th percentile per-packet one-way delay: 146.170 ms
Loss rate: 0.78%
-- Flow 1:
Average throughput: 236.44 Mbit/s
95th percentile per-packet one-way delay: 146.268 ms
Loss rate: 0.71%
-- Flow 2:
Average throughput: 67.12 Mbit/s
95th percentile per-packet one-way delay: 145.939 ms
Loss rate: 1.01%
-- Flow 3:
Average throughput: 16.83 Mbit/s
95th percentile per-packet one-way delay: 144.309 ms
Loss rate: 2.02%
```

Run 4: Report of PCC-Allegro — Data Link

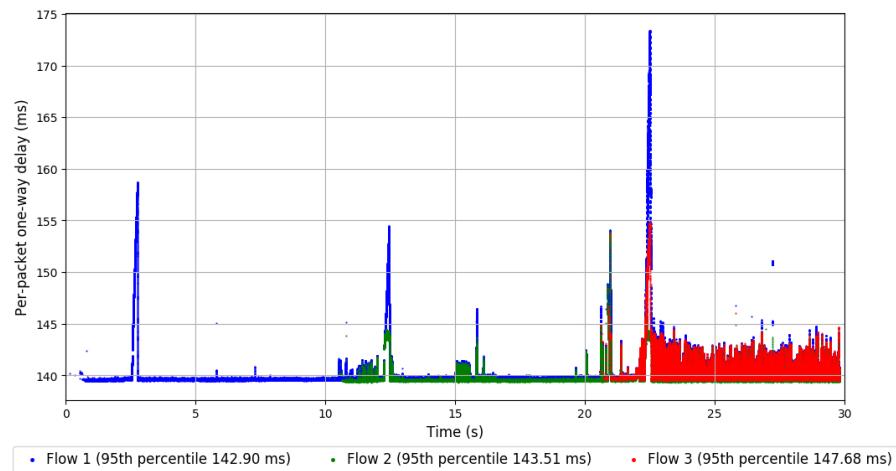
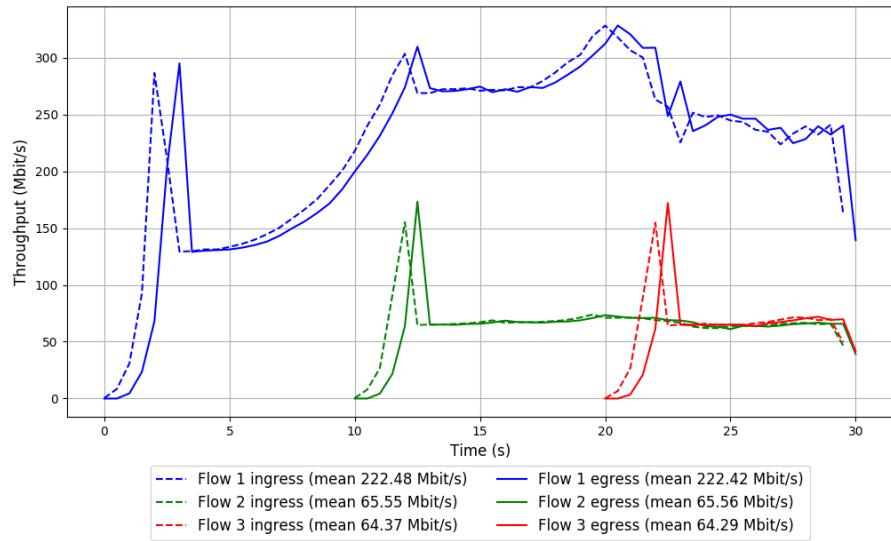


Run 5: Statistics of PCC-Allegro

```
Start at: 2019-01-22 05:41:38
End at: 2019-01-22 05:42:08
Local clock offset: -0.629 ms
Remote clock offset: -46.543 ms

# Below is generated by plot.py at 2019-01-22 06:44:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 286.70 Mbit/s
95th percentile per-packet one-way delay: 143.214 ms
Loss rate: 0.84%
-- Flow 1:
Average throughput: 222.42 Mbit/s
95th percentile per-packet one-way delay: 142.896 ms
Loss rate: 0.68%
-- Flow 2:
Average throughput: 65.56 Mbit/s
95th percentile per-packet one-way delay: 143.510 ms
Loss rate: 0.98%
-- Flow 3:
Average throughput: 64.29 Mbit/s
95th percentile per-packet one-way delay: 147.676 ms
Loss rate: 2.15%
```

Run 5: Report of PCC-Allegro — Data Link

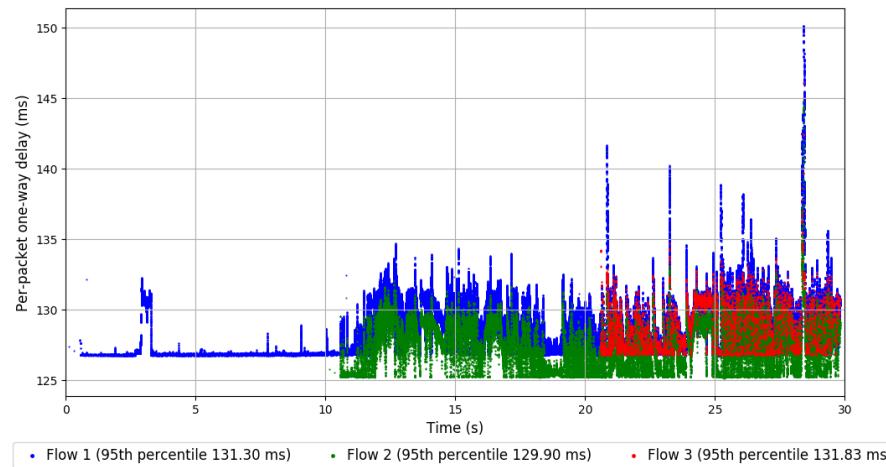
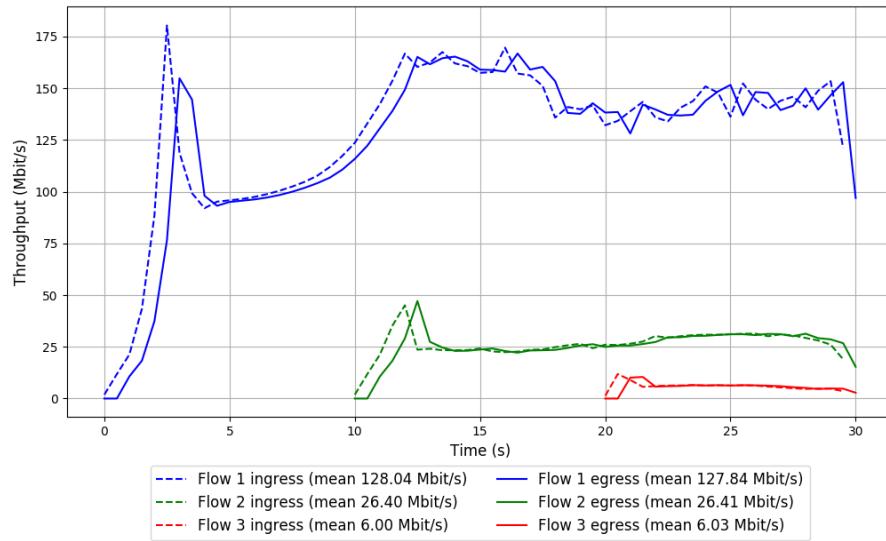


Run 1: Statistics of PCC-Expr

```
Start at: 2019-01-22 02:31:39
End at: 2019-01-22 02:32:09
Local clock offset: 1.392 ms
Remote clock offset: -32.106 ms

# Below is generated by plot.py at 2019-01-22 06:45:14
# Datalink statistics
-- Total of 3 flows:
Average throughput: 147.31 Mbit/s
95th percentile per-packet one-way delay: 131.209 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 127.84 Mbit/s
95th percentile per-packet one-way delay: 131.296 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 26.41 Mbit/s
95th percentile per-packet one-way delay: 129.901 ms
Loss rate: 0.95%
-- Flow 3:
Average throughput: 6.03 Mbit/s
95th percentile per-packet one-way delay: 131.833 ms
Loss rate: 1.63%
```

Run 1: Report of PCC-Expr — Data Link

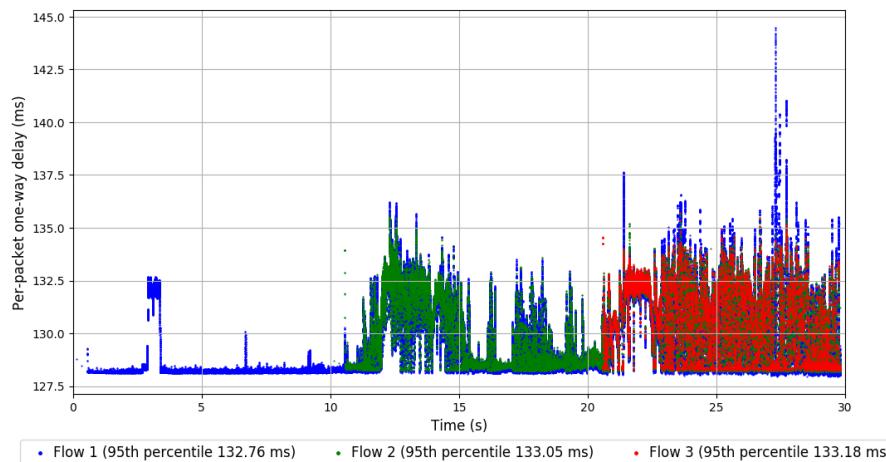
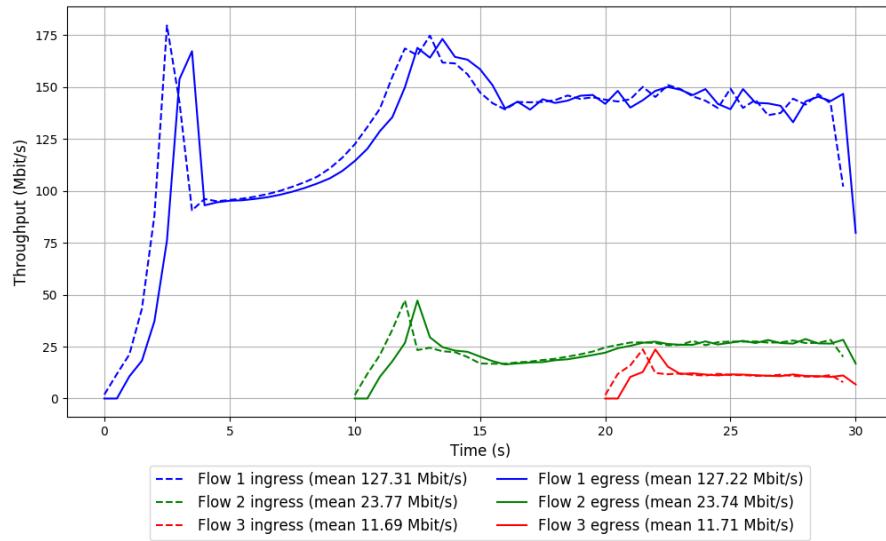


Run 2: Statistics of PCC-Expr

```
Start at: 2019-01-22 03:18:10
End at: 2019-01-22 03:18:40
Local clock offset: -0.835 ms
Remote clock offset: -34.005 ms

# Below is generated by plot.py at 2019-01-22 06:45:34
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.76 Mbit/s
95th percentile per-packet one-way delay: 132.816 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 127.22 Mbit/s
95th percentile per-packet one-way delay: 132.758 ms
Loss rate: 0.75%
-- Flow 2:
Average throughput: 23.74 Mbit/s
95th percentile per-packet one-way delay: 133.052 ms
Loss rate: 1.12%
-- Flow 3:
Average throughput: 11.71 Mbit/s
95th percentile per-packet one-way delay: 133.184 ms
Loss rate: 1.78%
```

Run 2: Report of PCC-Expr — Data Link

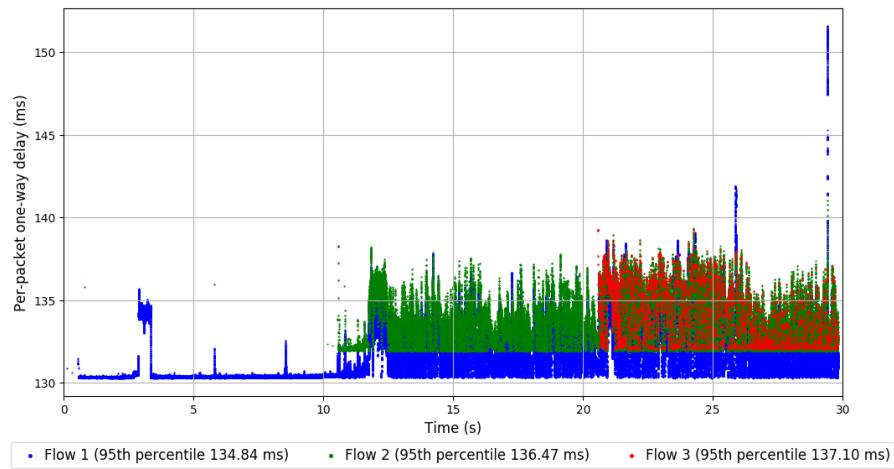
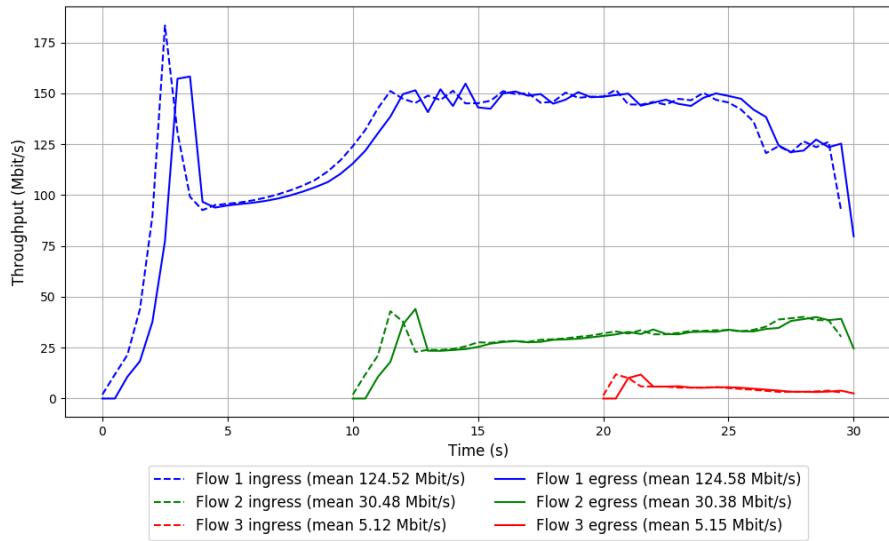


Run 3: Statistics of PCC-Expr

```
Start at: 2019-01-22 03:49:12
End at: 2019-01-22 03:49:42
Local clock offset: -0.444 ms
Remote clock offset: -39.066 ms

# Below is generated by plot.py at 2019-01-22 06:45:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 146.39 Mbit/s
95th percentile per-packet one-way delay: 135.482 ms
Loss rate: 0.72%
-- Flow 1:
Average throughput: 124.58 Mbit/s
95th percentile per-packet one-way delay: 134.840 ms
Loss rate: 0.61%
-- Flow 2:
Average throughput: 30.38 Mbit/s
95th percentile per-packet one-way delay: 136.468 ms
Loss rate: 1.32%
-- Flow 3:
Average throughput: 5.15 Mbit/s
95th percentile per-packet one-way delay: 137.103 ms
Loss rate: 1.48%
```

Run 3: Report of PCC-Expr — Data Link

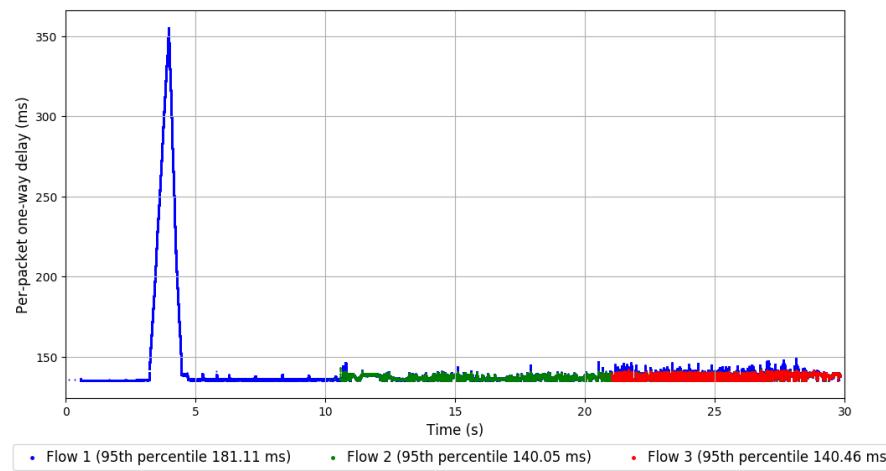
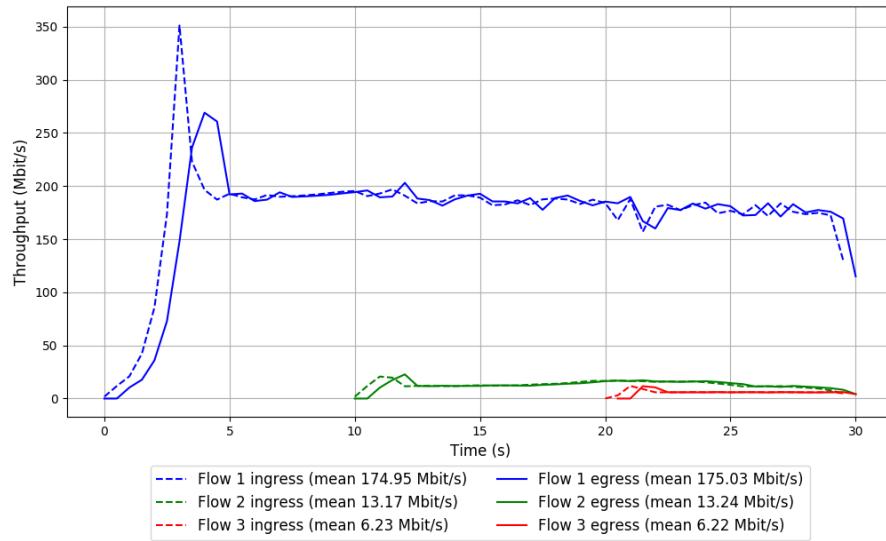


Run 4: Statistics of PCC-Expr

```
Start at: 2019-01-22 04:40:31
End at: 2019-01-22 04:41:01
Local clock offset: 0.986 ms
Remote clock offset: -41.262 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 185.74 Mbit/s
95th percentile per-packet one-way delay: 172.480 ms
Loss rate: 0.64%
-- Flow 1:
Average throughput: 175.03 Mbit/s
95th percentile per-packet one-way delay: 181.109 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 13.24 Mbit/s
95th percentile per-packet one-way delay: 140.049 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 6.22 Mbit/s
95th percentile per-packet one-way delay: 140.457 ms
Loss rate: 2.20%
```

Run 4: Report of PCC-Expr — Data Link

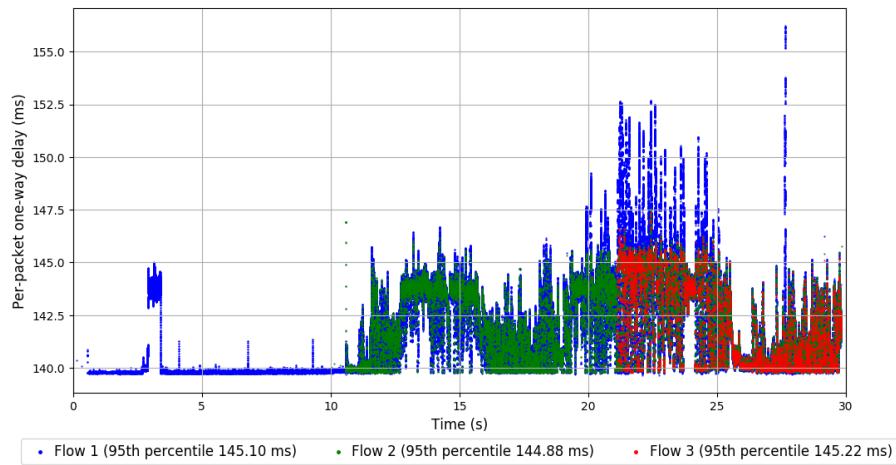
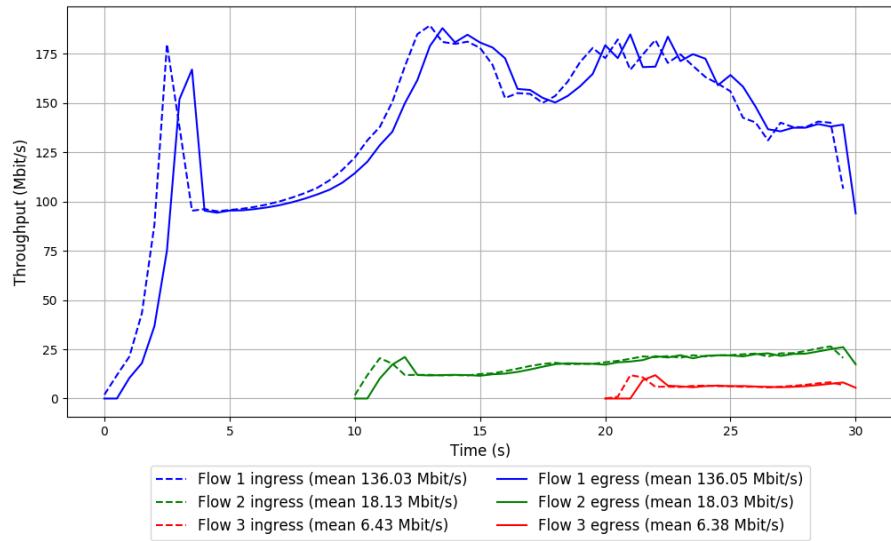


Run 5: Statistics of PCC-Expr

```
Start at: 2019-01-22 05:33:06
End at: 2019-01-22 05:33:36
Local clock offset: -0.355 ms
Remote clock offset: -46.585 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 150.07 Mbit/s
95th percentile per-packet one-way delay: 145.064 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 136.05 Mbit/s
95th percentile per-packet one-way delay: 145.104 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 18.03 Mbit/s
95th percentile per-packet one-way delay: 144.885 ms
Loss rate: 1.49%
-- Flow 3:
Average throughput: 6.38 Mbit/s
95th percentile per-packet one-way delay: 145.217 ms
Loss rate: 2.86%
```

Run 5: Report of PCC-Expr — Data Link

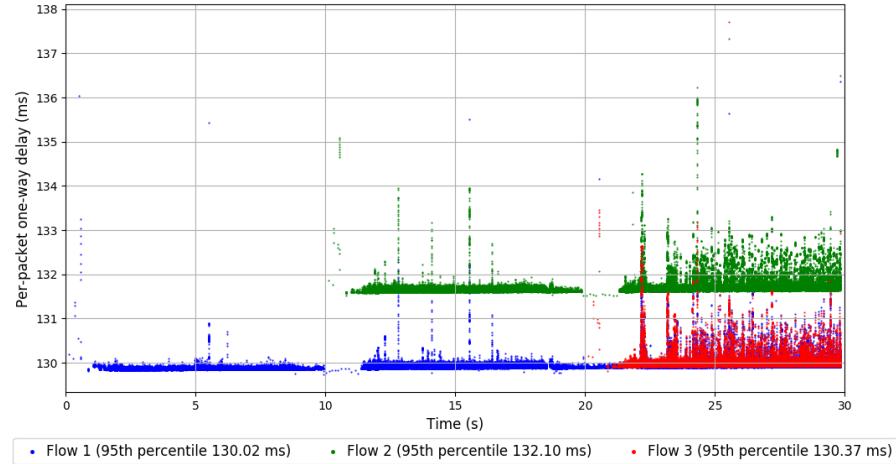
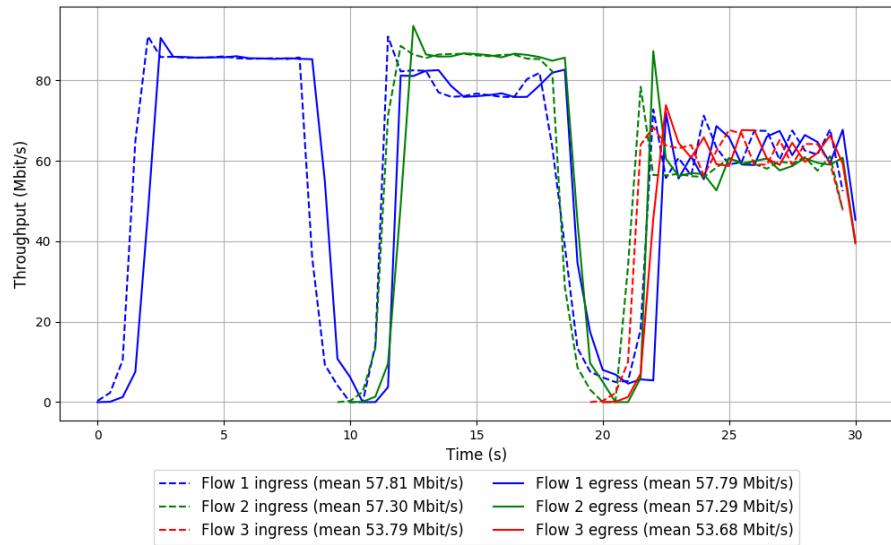


Run 1: Statistics of QUIC Cubic

```
Start at: 2019-01-22 02:53:14
End at: 2019-01-22 02:53:44
Local clock offset: -1.589 ms
Remote clock offset: -38.297 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 113.36 Mbit/s
95th percentile per-packet one-way delay: 131.761 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 57.79 Mbit/s
95th percentile per-packet one-way delay: 130.024 ms
Loss rate: 0.72%
-- Flow 2:
Average throughput: 57.29 Mbit/s
95th percentile per-packet one-way delay: 132.097 ms
Loss rate: 1.02%
-- Flow 3:
Average throughput: 53.68 Mbit/s
95th percentile per-packet one-way delay: 130.372 ms
Loss rate: 2.23%
```

Run 1: Report of QUIC Cubic — Data Link

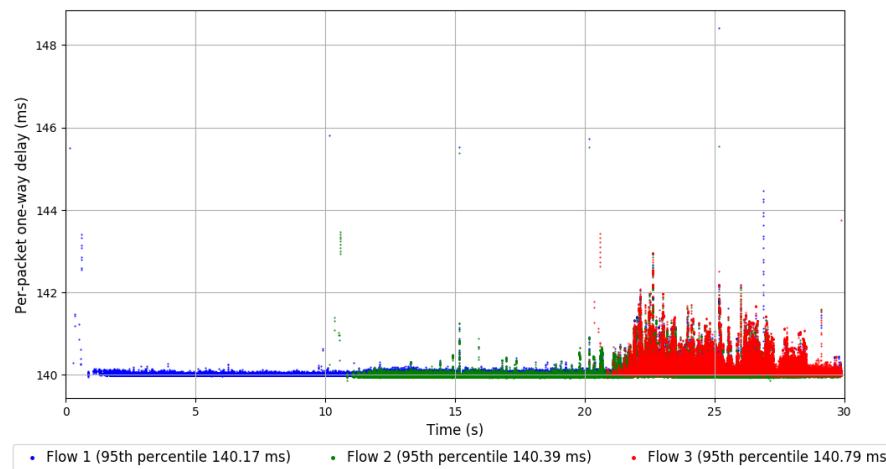
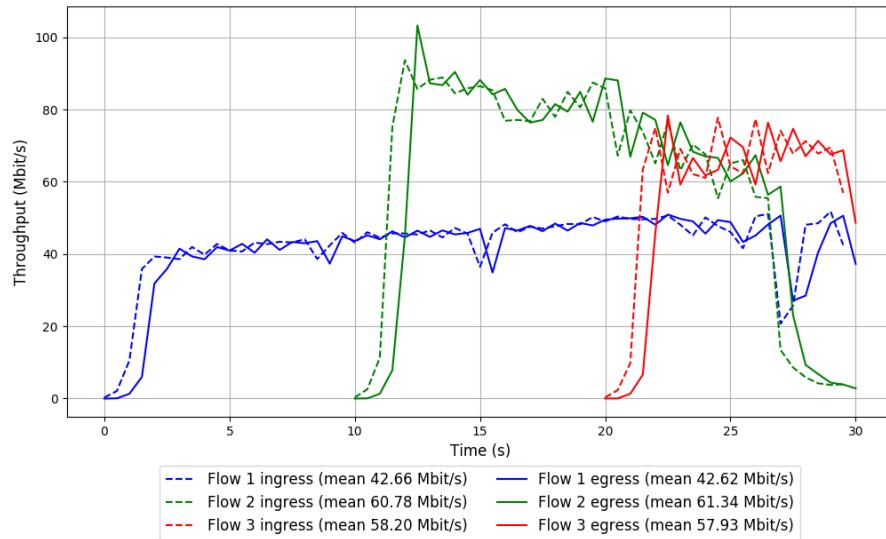


Run 2: Statistics of QUIC Cubic

```
Start at: 2019-01-22 03:34:10
End at: 2019-01-22 03:34:40
Local clock offset: 0.937 ms
Remote clock offset: -45.574 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 102.20 Mbit/s
95th percentile per-packet one-way delay: 140.458 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 42.62 Mbit/s
95th percentile per-packet one-way delay: 140.169 ms
Loss rate: 0.78%
-- Flow 2:
Average throughput: 61.34 Mbit/s
95th percentile per-packet one-way delay: 140.389 ms
Loss rate: 0.09%
-- Flow 3:
Average throughput: 57.93 Mbit/s
95th percentile per-packet one-way delay: 140.789 ms
Loss rate: 2.39%
```

Run 2: Report of QUIC Cubic — Data Link

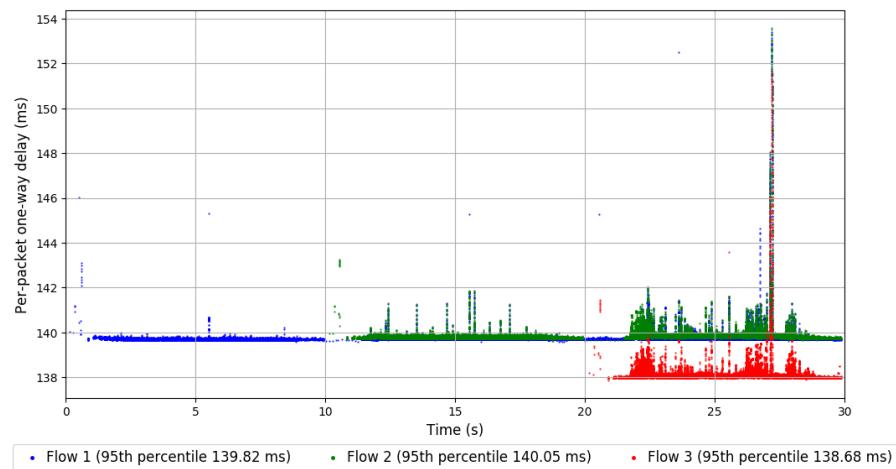
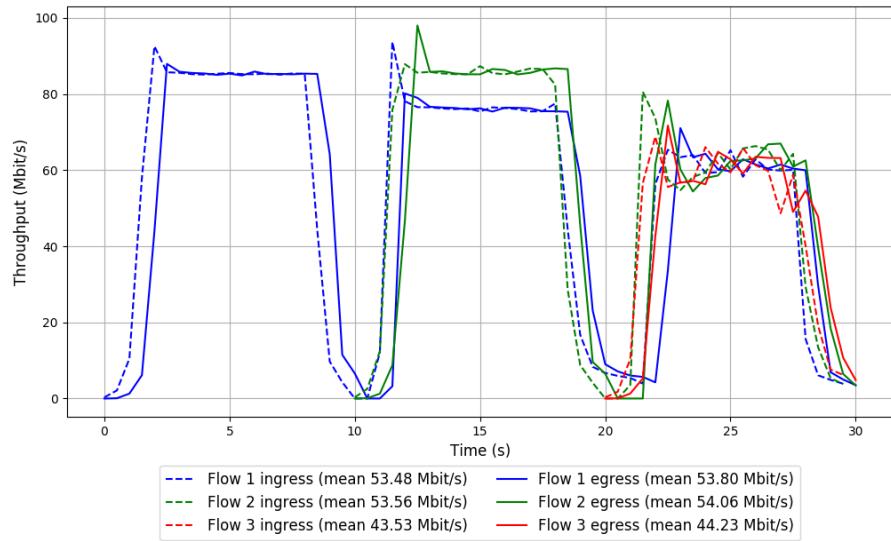


Run 3: Statistics of QUIC Cubic

```
Start at: 2019-01-22 04:09:36
End at: 2019-01-22 04:10:06
Local clock offset: -1.975 ms
Remote clock offset: -48.271 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 104.10 Mbit/s
95th percentile per-packet one-way delay: 139.884 ms
Loss rate: 0.11%
-- Flow 1:
Average throughput: 53.80 Mbit/s
95th percentile per-packet one-way delay: 139.819 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 54.06 Mbit/s
95th percentile per-packet one-way delay: 140.053 ms
Loss rate: 0.08%
-- Flow 3:
Average throughput: 44.23 Mbit/s
95th percentile per-packet one-way delay: 138.676 ms
Loss rate: 0.38%
```

Run 3: Report of QUIC Cubic — Data Link

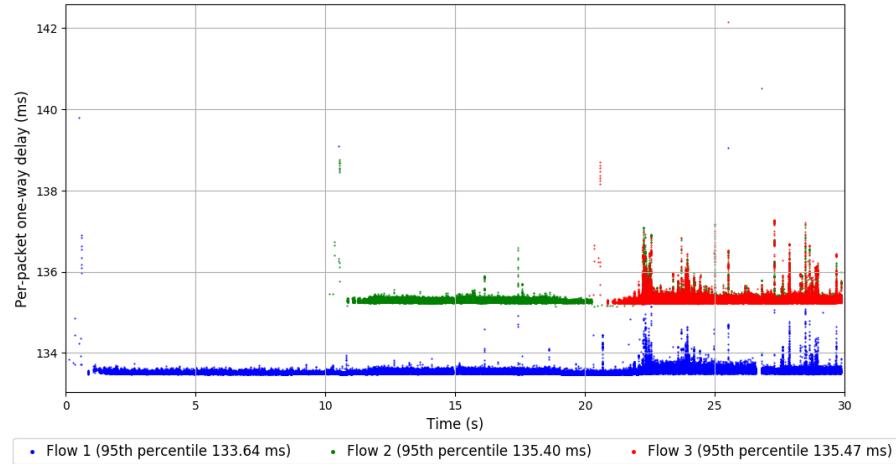
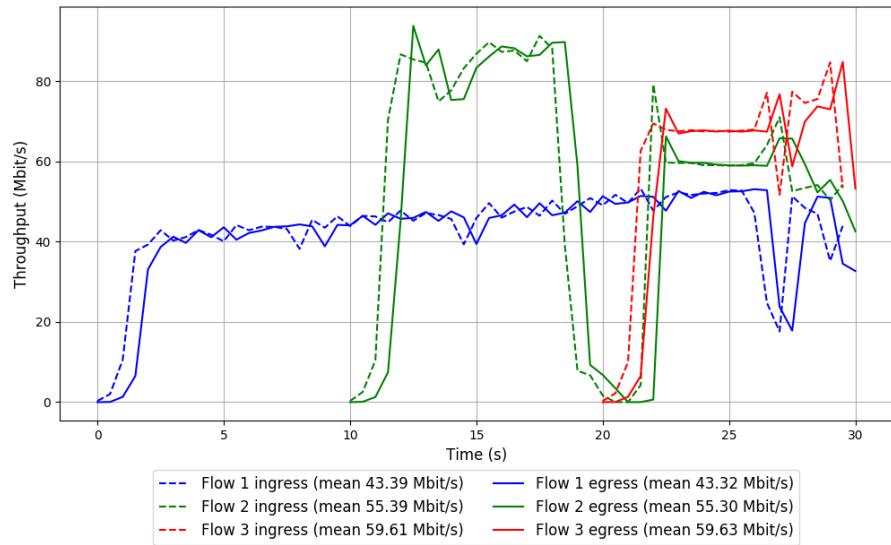


Run 4: Statistics of QUIC Cubic

```
Start at: 2019-01-22 05:06:16
End at: 2019-01-22 05:06:46
Local clock offset: 0.797 ms
Remote clock offset: -42.039 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 99.46 Mbit/s
95th percentile per-packet one-way delay: 135.373 ms
Loss rate: 1.15%
-- Flow 1:
Average throughput: 43.32 Mbit/s
95th percentile per-packet one-way delay: 133.639 ms
Loss rate: 0.80%
-- Flow 2:
Average throughput: 55.30 Mbit/s
95th percentile per-packet one-way delay: 135.397 ms
Loss rate: 1.15%
-- Flow 3:
Average throughput: 59.63 Mbit/s
95th percentile per-packet one-way delay: 135.465 ms
Loss rate: 1.95%
```

Run 4: Report of QUIC Cubic — Data Link

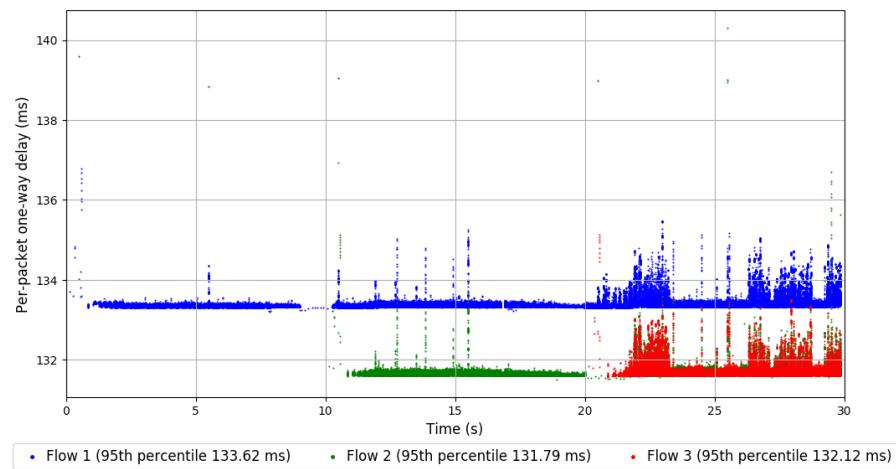
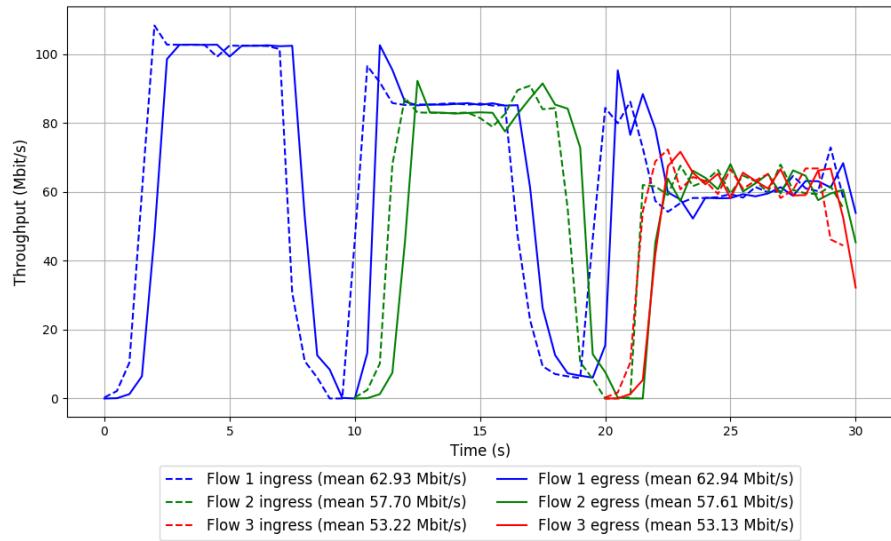


Run 5: Statistics of QUIC Cubic

```
Start at: 2019-01-22 06:00:08
End at: 2019-01-22 06:00:38
Local clock offset: -2.341 ms
Remote clock offset: -42.705 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 118.49 Mbit/s
95th percentile per-packet one-way delay: 133.444 ms
Loss rate: 1.05%
-- Flow 1:
Average throughput: 62.94 Mbit/s
95th percentile per-packet one-way delay: 133.621 ms
Loss rate: 0.65%
-- Flow 2:
Average throughput: 57.61 Mbit/s
95th percentile per-packet one-way delay: 131.789 ms
Loss rate: 1.16%
-- Flow 3:
Average throughput: 53.13 Mbit/s
95th percentile per-packet one-way delay: 132.123 ms
Loss rate: 2.23%
```

Run 5: Report of QUIC Cubic — Data Link

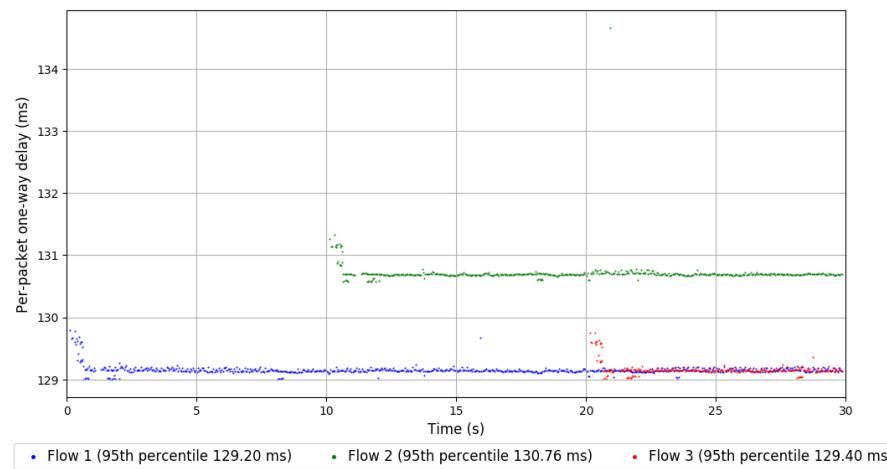
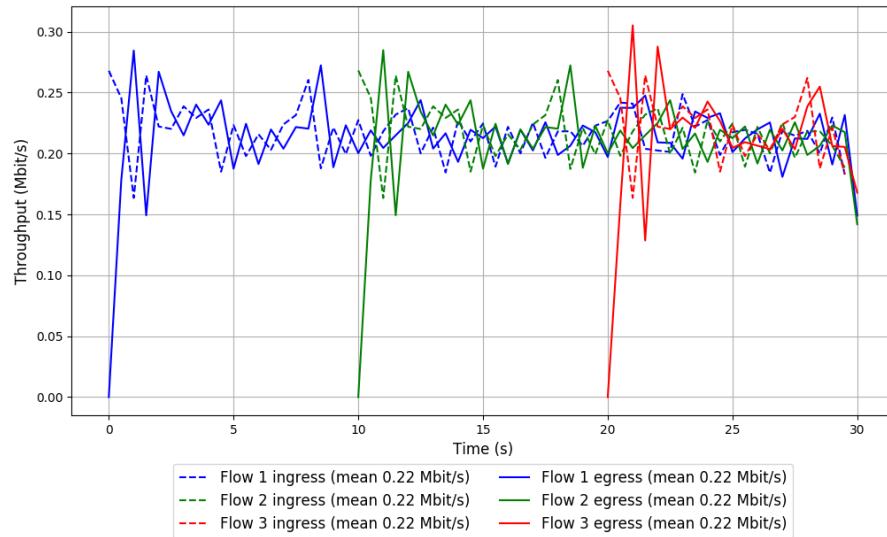


Run 1: Statistics of SCReAM

```
Start at: 2019-01-22 02:44:46
End at: 2019-01-22 02:45:16
Local clock offset: -1.368 ms
Remote clock offset: -38.701 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 130.708 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 129.204 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 130.762 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 129.395 ms
Loss rate: 1.84%
```

Run 1: Report of SCReAM — Data Link

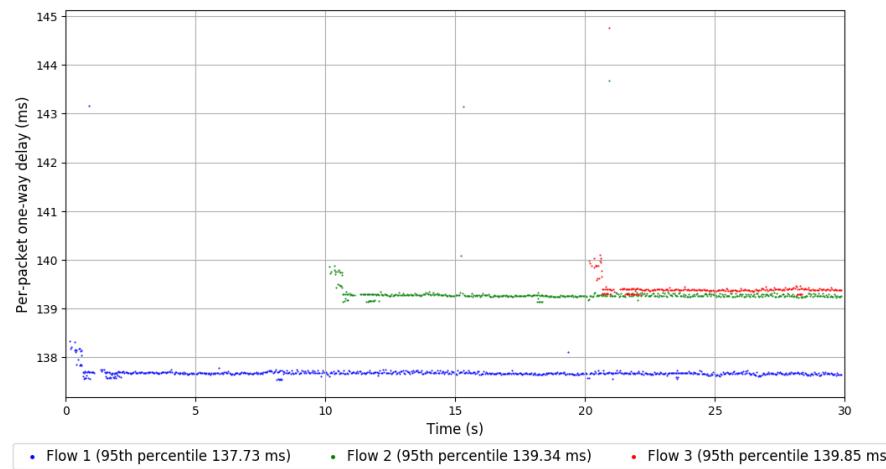
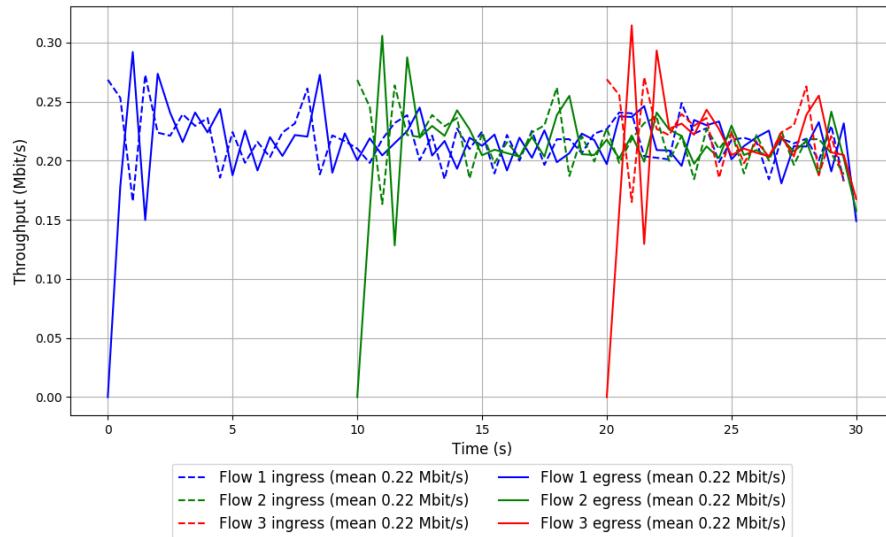


Run 2: Statistics of SCReAM

```
Start at: 2019-01-22 03:25:50
End at: 2019-01-22 03:26:20
Local clock offset: -0.196 ms
Remote clock offset: -45.388 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 139.402 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 137.730 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 139.336 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 139.848 ms
Loss rate: 1.82%
```

Run 2: Report of SCReAM — Data Link

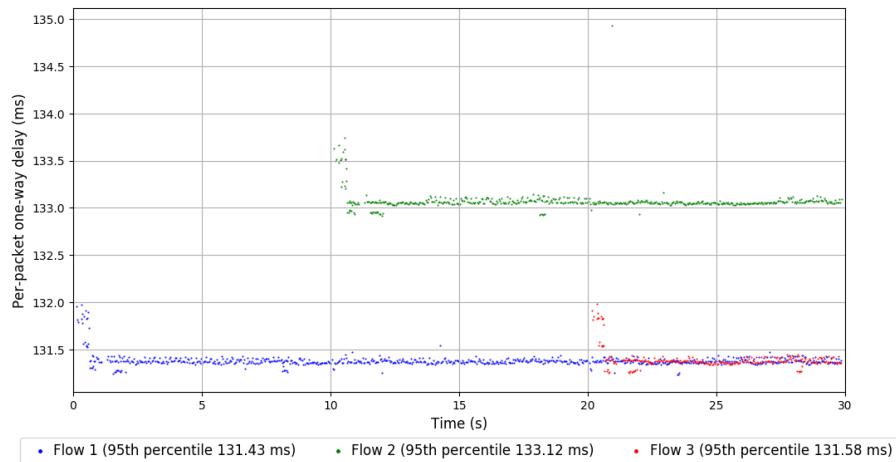
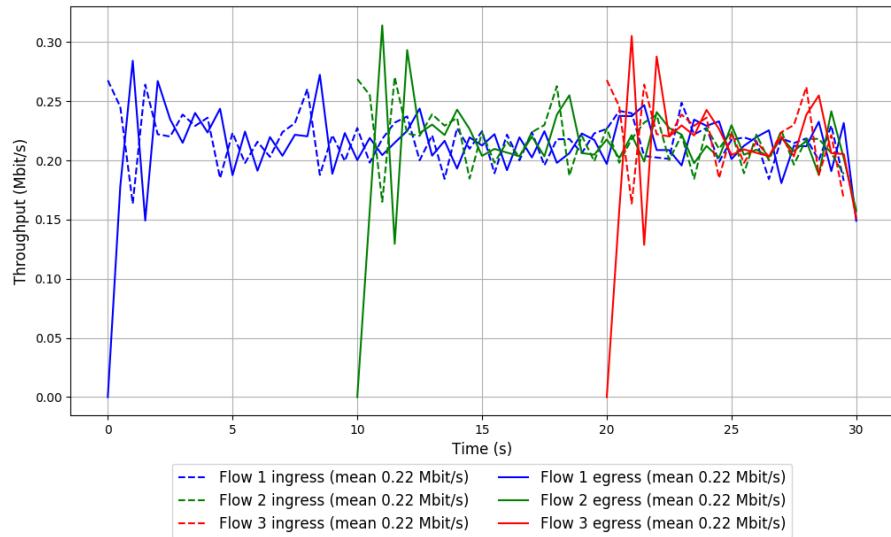


Run 3: Statistics of SCReAM

```
Start at: 2019-01-22 03:56:51
End at: 2019-01-22 03:57:21
Local clock offset: -1.669 ms
Remote clock offset: -41.122 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 133.091 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 131.426 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 133.123 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 131.580 ms
Loss rate: 1.86%
```

Run 3: Report of SCReAM — Data Link

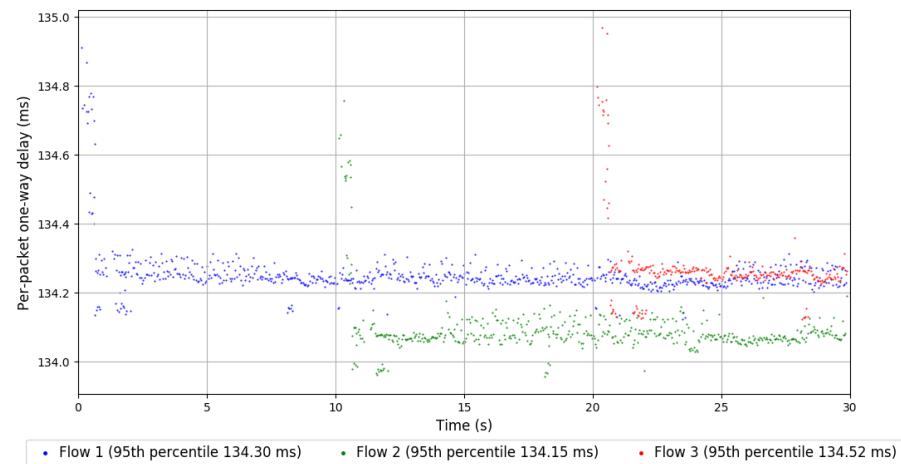
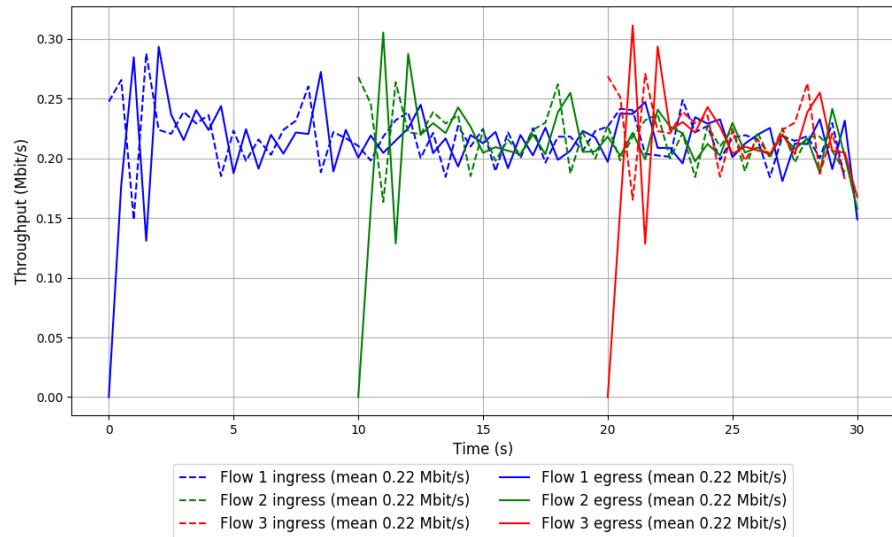


Run 4: Statistics of SCReAM

```
Start at: 2019-01-22 04:48:10
End at: 2019-01-22 04:48:40
Local clock offset: 1.204 ms
Remote clock offset: -39.655 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 134.301 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.302 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.150 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 134.524 ms
Loss rate: 1.83%
```

Run 4: Report of SCReAM — Data Link

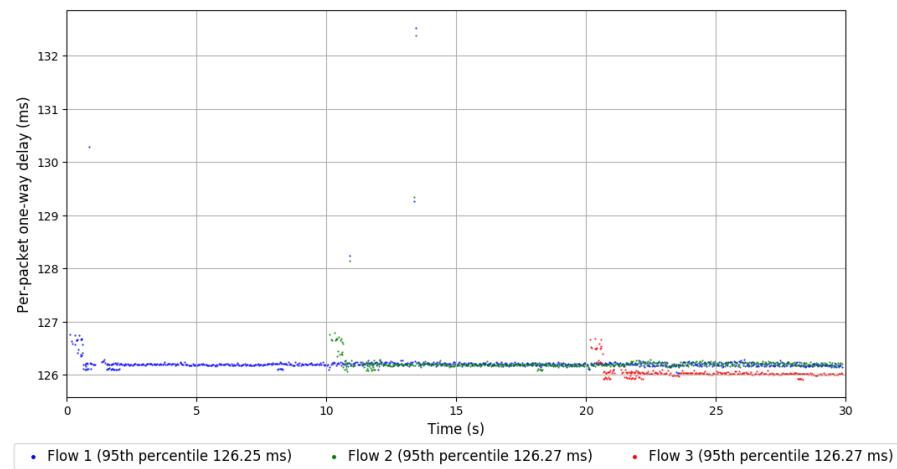
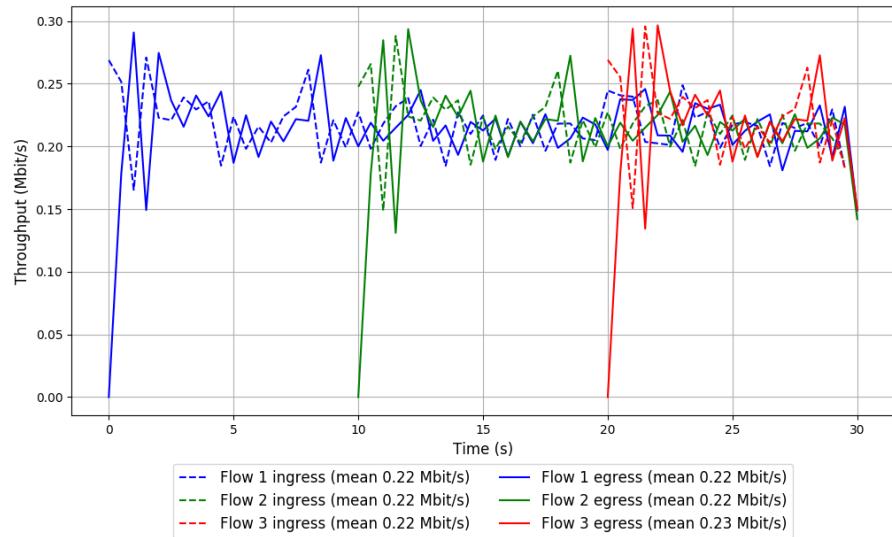


Run 5: Statistics of SCReAM

```
Start at: 2019-01-22 05:51:45
End at: 2019-01-22 05:52:15
Local clock offset: -1.51 ms
Remote clock offset: -34.398 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.44 Mbit/s
95th percentile per-packet one-way delay: 126.264 ms
Loss rate: 0.97%
-- Flow 1:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 126.251 ms
Loss rate: 0.64%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 126.270 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 0.23 Mbit/s
95th percentile per-packet one-way delay: 126.267 ms
Loss rate: 1.82%
```

Run 5: Report of SCReAM — Data Link

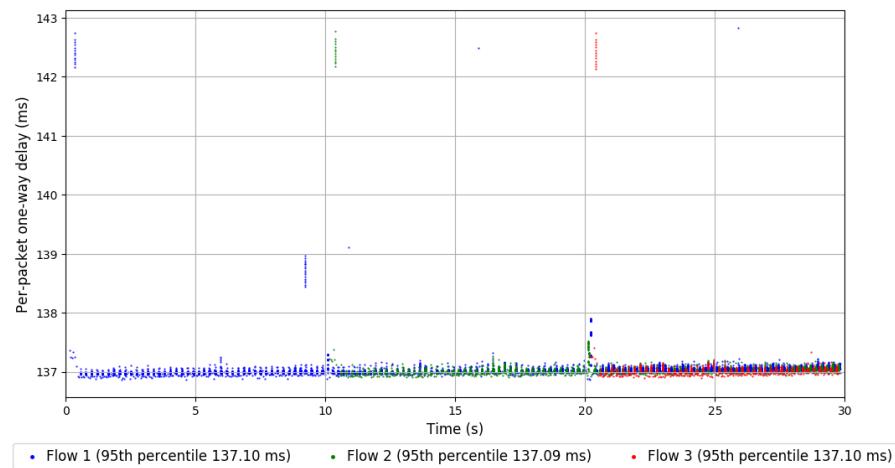
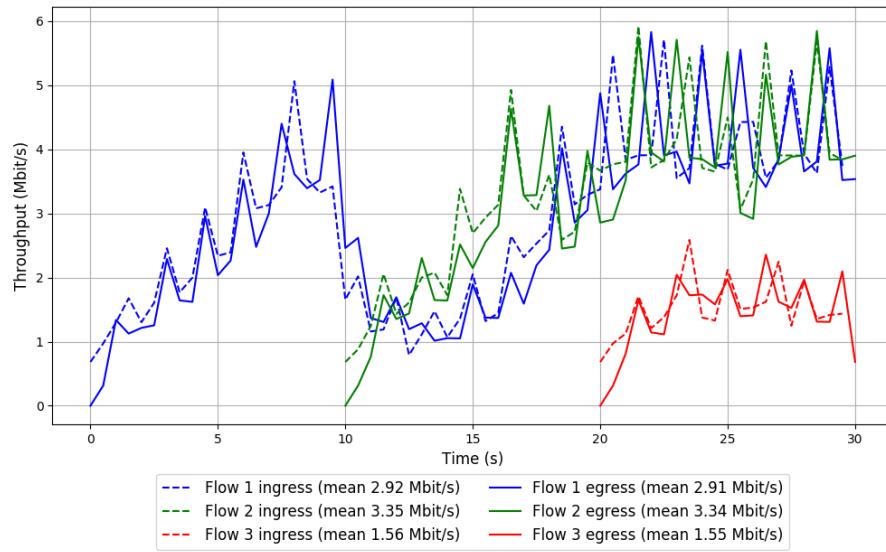


Run 1: Statistics of Sprout

```
Start at: 2019-01-22 02:48:57
End at: 2019-01-22 02:49:27
Local clock offset: -1.901 ms
Remote clock offset: -44.79 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.62 Mbit/s
95th percentile per-packet one-way delay: 137.100 ms
Loss rate: 1.36%
-- Flow 1:
Average throughput: 2.91 Mbit/s
95th percentile per-packet one-way delay: 137.105 ms
Loss rate: 1.13%
-- Flow 2:
Average throughput: 3.34 Mbit/s
95th percentile per-packet one-way delay: 137.094 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 1.55 Mbit/s
95th percentile per-packet one-way delay: 137.100 ms
Loss rate: 2.48%
```

Run 1: Report of Sprout — Data Link

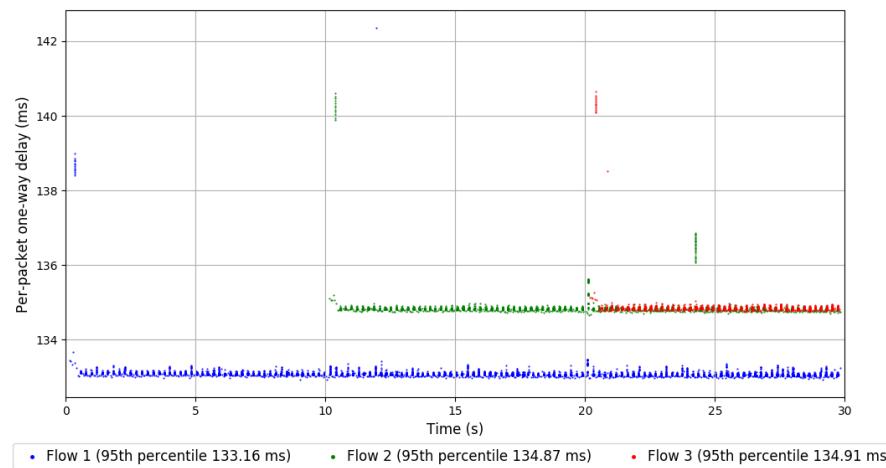
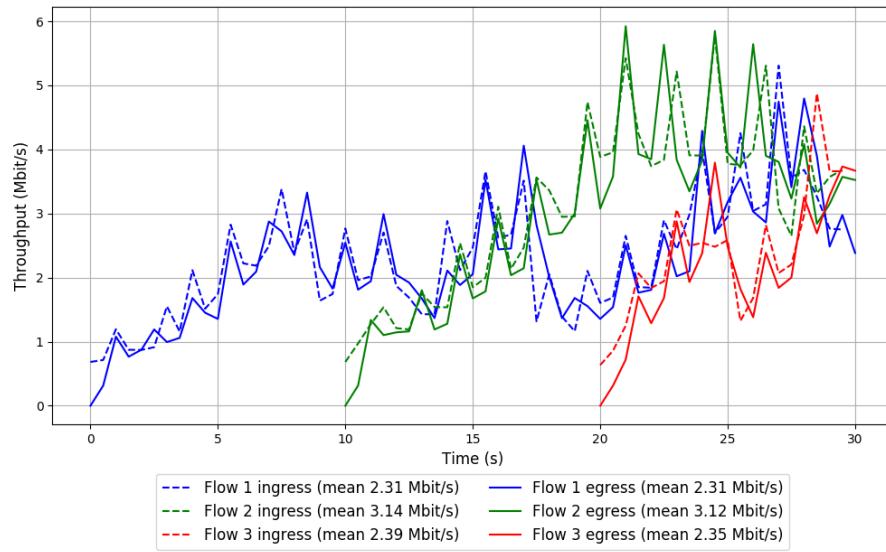


Run 2: Statistics of Sprout

```
Start at: 2019-01-22 03:29:53
End at: 2019-01-22 03:30:23
Local clock offset: 1.919 ms
Remote clock offset: -39.032 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.13 Mbit/s
95th percentile per-packet one-way delay: 134.860 ms
Loss rate: 1.62%
-- Flow 1:
Average throughput: 2.31 Mbit/s
95th percentile per-packet one-way delay: 133.160 ms
Loss rate: 0.99%
-- Flow 2:
Average throughput: 3.12 Mbit/s
95th percentile per-packet one-way delay: 134.872 ms
Loss rate: 1.48%
-- Flow 3:
Average throughput: 2.35 Mbit/s
95th percentile per-packet one-way delay: 134.906 ms
Loss rate: 3.83%
```

Run 2: Report of Sprout — Data Link

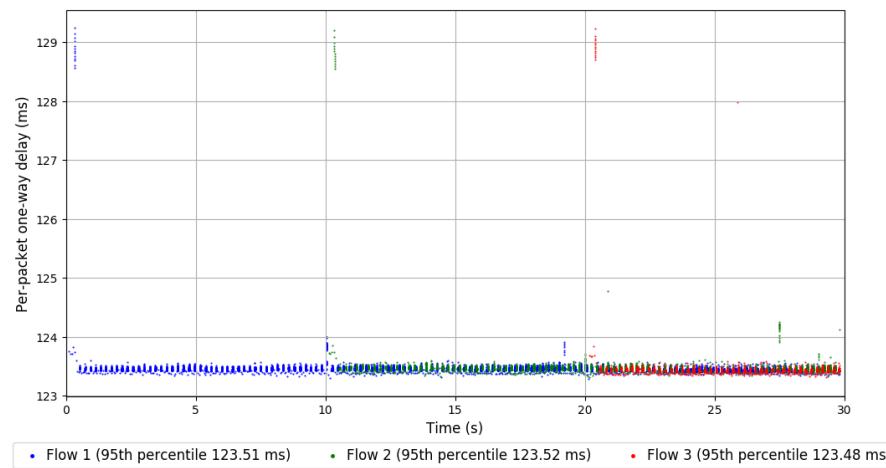
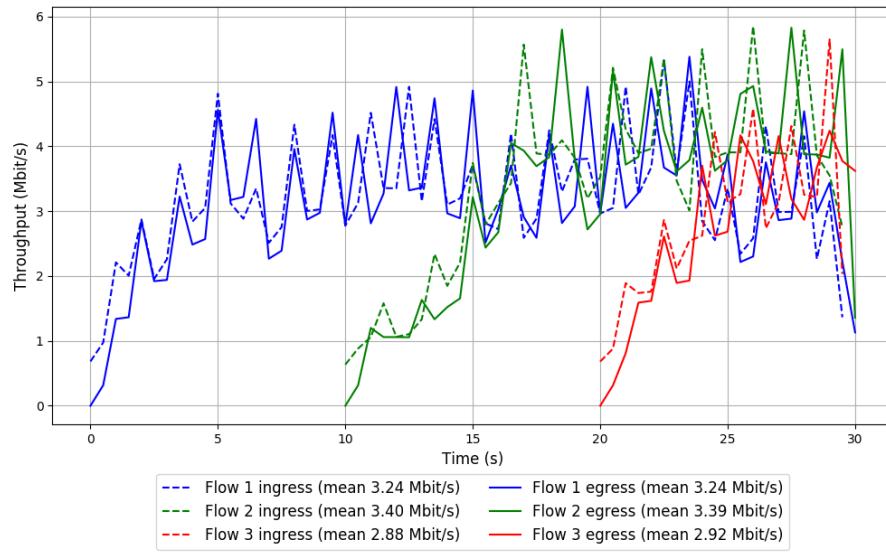


Run 3: Statistics of Sprout

```
Start at: 2019-01-22 04:00:55
End at: 2019-01-22 04:01:25
Local clock offset: -1.637 ms
Remote clock offset: -33.23 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.43 Mbit/s
95th percentile per-packet one-way delay: 123.510 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 3.24 Mbit/s
95th percentile per-packet one-way delay: 123.508 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 3.39 Mbit/s
95th percentile per-packet one-way delay: 123.515 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 2.92 Mbit/s
95th percentile per-packet one-way delay: 123.484 ms
Loss rate: 0.51%
```

Run 3: Report of Sprout — Data Link

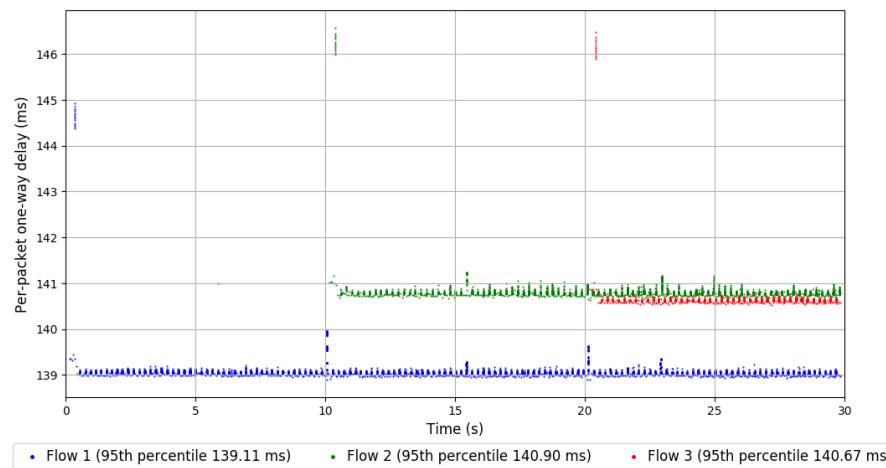
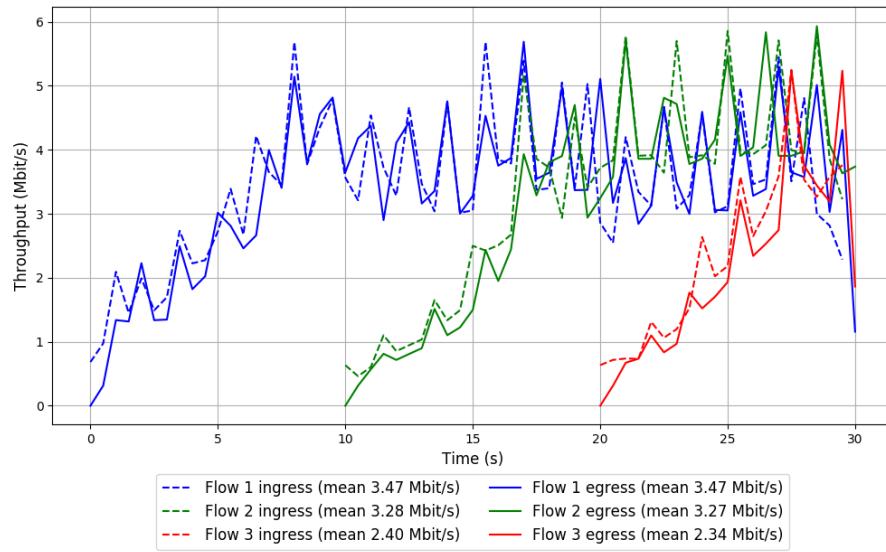


Run 4: Statistics of Sprout

```
Start at: 2019-01-22 04:52:14
End at: 2019-01-22 04:52:44
Local clock offset: 2.156 ms
Remote clock offset: -45.405 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 6.40 Mbit/s
95th percentile per-packet one-way delay: 140.812 ms
Loss rate: 1.16%
-- Flow 1:
Average throughput: 3.47 Mbit/s
95th percentile per-packet one-way delay: 139.108 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 3.27 Mbit/s
95th percentile per-packet one-way delay: 140.896 ms
Loss rate: 1.11%
-- Flow 3:
Average throughput: 2.34 Mbit/s
95th percentile per-packet one-way delay: 140.674 ms
Loss rate: 4.05%
```

Run 4: Report of Sprout — Data Link

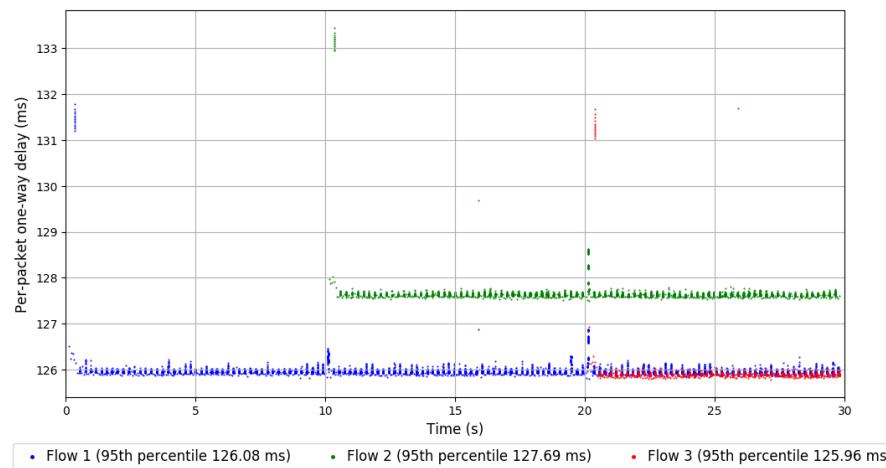
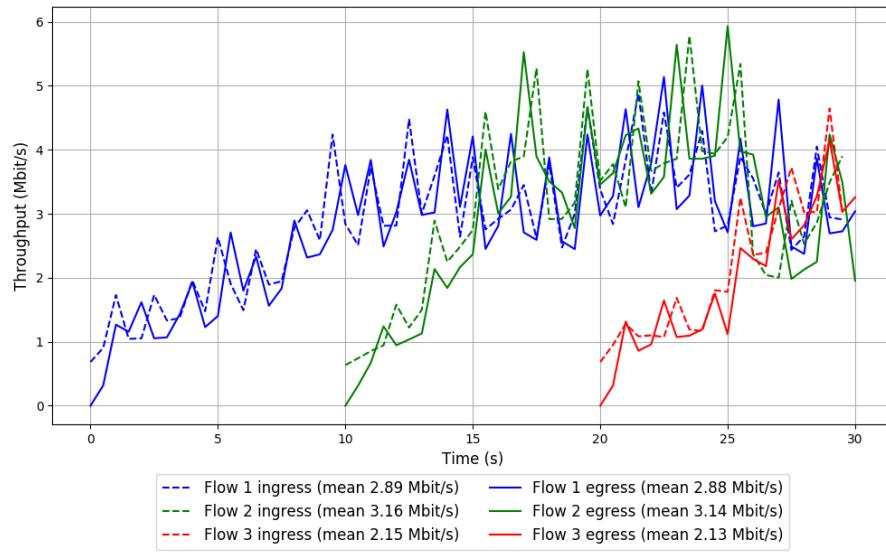


Run 5: Statistics of Sprout

```
Start at: 2019-01-22 05:55:50
End at: 2019-01-22 05:56:20
Local clock offset: -1.225 ms
Remote clock offset: -35.76 ms

# Below is generated by plot.py at 2019-01-22 06:47:26
# Datalink statistics
-- Total of 3 flows:
Average throughput: 5.65 Mbit/s
95th percentile per-packet one-way delay: 127.657 ms
Loss rate: 1.41%
-- Flow 1:
Average throughput: 2.88 Mbit/s
95th percentile per-packet one-way delay: 126.075 ms
Loss rate: 0.84%
-- Flow 2:
Average throughput: 3.14 Mbit/s
95th percentile per-packet one-way delay: 127.690 ms
Loss rate: 1.55%
-- Flow 3:
Average throughput: 2.13 Mbit/s
95th percentile per-packet one-way delay: 125.963 ms
Loss rate: 3.29%
```

Run 5: Report of Sprout — Data Link

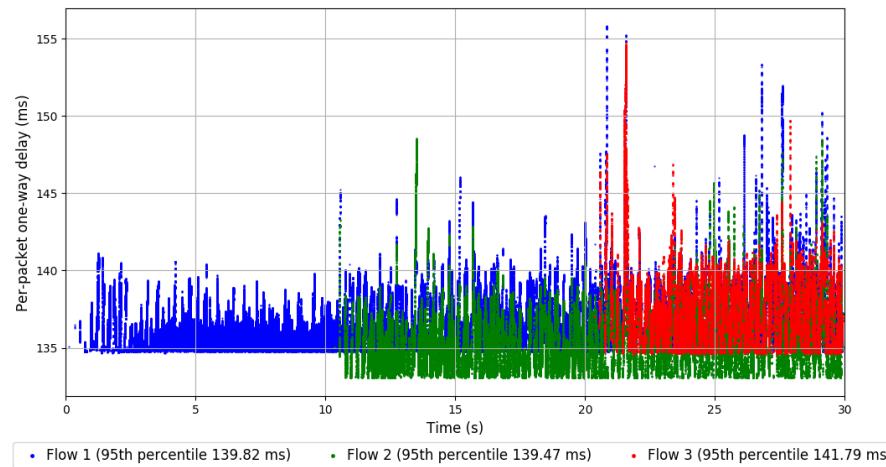
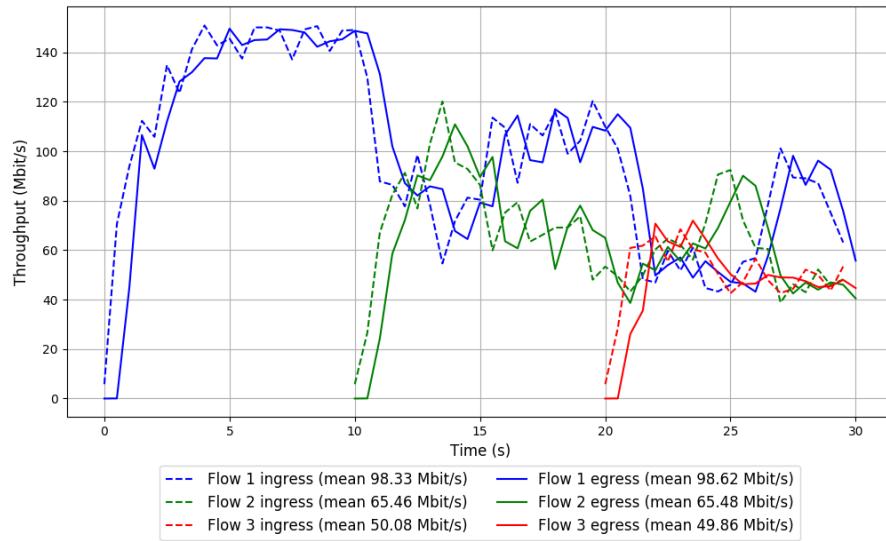


Run 1: Statistics of TaoVA-100x

```
Start at: 2019-01-22 03:10:30
End at: 2019-01-22 03:11:00
Local clock offset: -0.467 ms
Remote clock offset: -39.198 ms

# Below is generated by plot.py at 2019-01-22 06:49:15
# Datalink statistics
-- Total of 3 flows:
Average throughput: 158.41 Mbit/s
95th percentile per-packet one-way delay: 140.032 ms
Loss rate: 0.76%
-- Flow 1:
Average throughput: 98.62 Mbit/s
95th percentile per-packet one-way delay: 139.818 ms
Loss rate: 0.38%
-- Flow 2:
Average throughput: 65.48 Mbit/s
95th percentile per-packet one-way delay: 139.466 ms
Loss rate: 0.96%
-- Flow 3:
Average throughput: 49.86 Mbit/s
95th percentile per-packet one-way delay: 141.793 ms
Loss rate: 2.46%
```

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

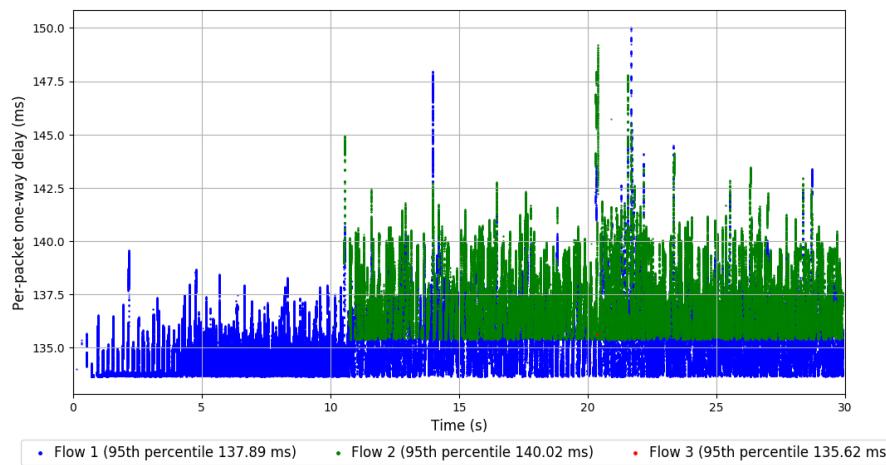
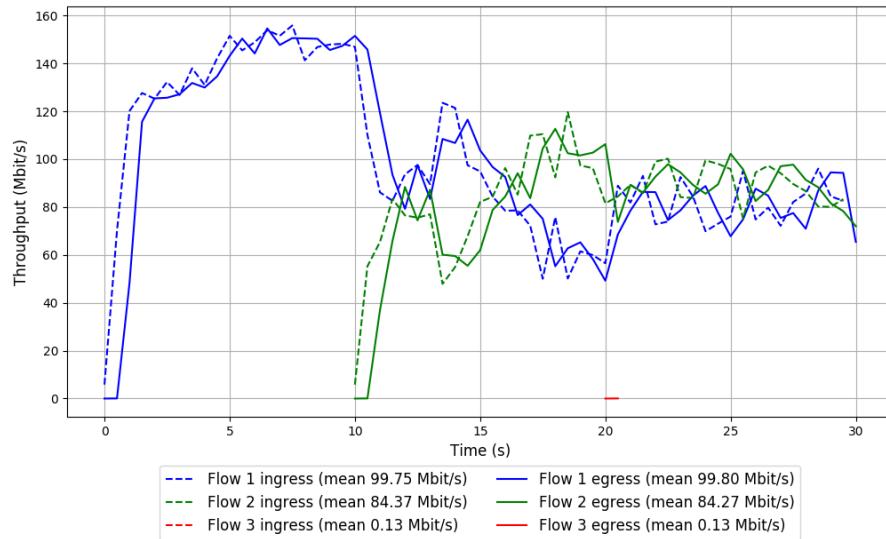


Run 2: Statistics of TaoVA-100x

```
Start at: 2019-01-22 03:41:44
End at: 2019-01-22 03:42:14
Local clock offset: -0.003 ms
Remote clock offset: -41.903 ms

# Below is generated by plot.py at 2019-01-22 06:49:17
# Datalink statistics
-- Total of 3 flows:
Average throughput: 155.76 Mbit/s
95th percentile per-packet one-way delay: 139.323 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 99.80 Mbit/s
95th percentile per-packet one-way delay: 137.890 ms
Loss rate: 0.59%
-- Flow 2:
Average throughput: 84.27 Mbit/s
95th percentile per-packet one-way delay: 140.017 ms
Loss rate: 0.97%
-- Flow 3:
Average throughput: 0.13 Mbit/s
95th percentile per-packet one-way delay: 135.620 ms
Loss rate: 0.00%
```

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

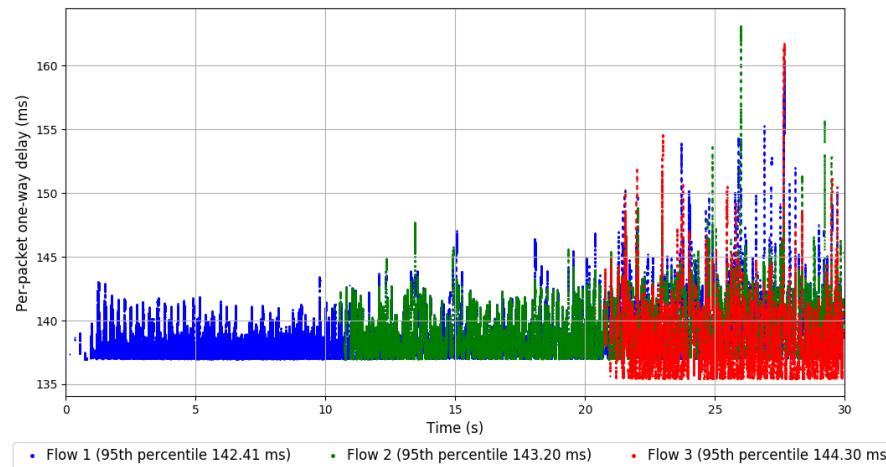
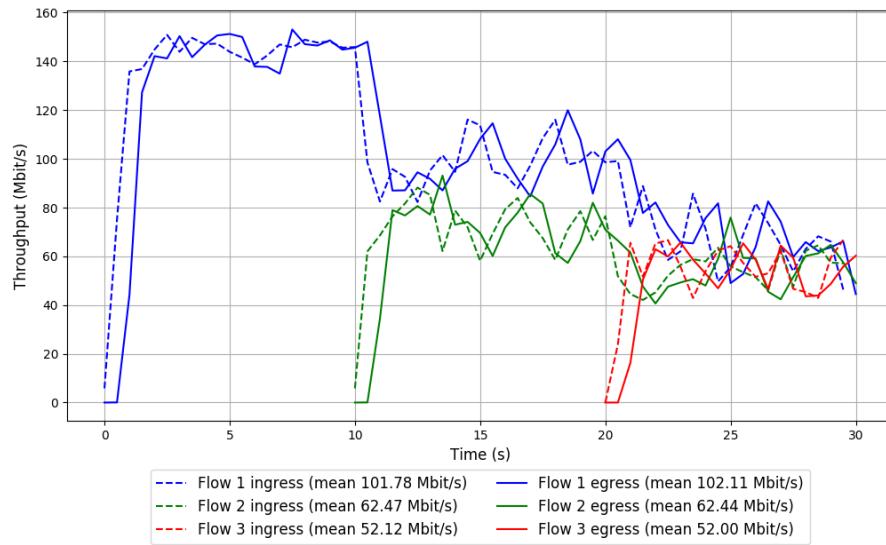


Run 3: Statistics of TaoVA-100x

```
Start at: 2019-01-22 04:23:16
End at: 2019-01-22 04:23:46
Local clock offset: -1.468 ms
Remote clock offset: -45.166 ms

# Below is generated by plot.py at 2019-01-22 06:49:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 160.59 Mbit/s
95th percentile per-packet one-way delay: 142.830 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 102.11 Mbit/s
95th percentile per-packet one-way delay: 142.414 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 62.44 Mbit/s
95th percentile per-packet one-way delay: 143.197 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 52.00 Mbit/s
95th percentile per-packet one-way delay: 144.296 ms
Loss rate: 2.15%
```

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

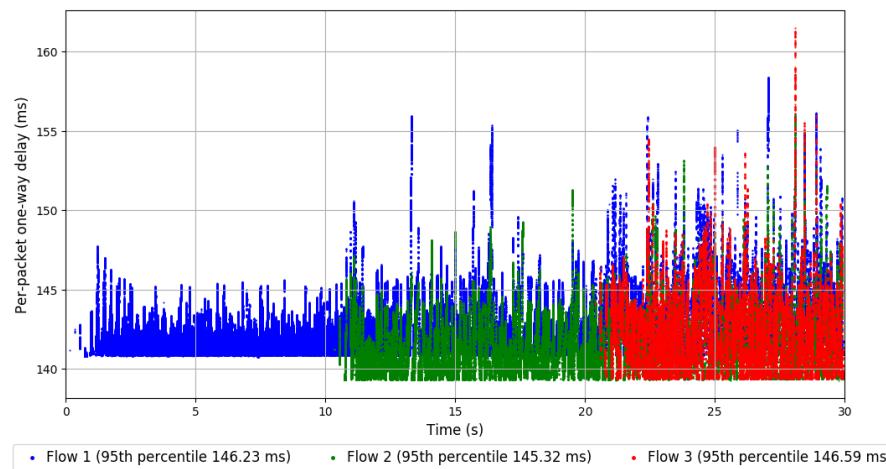
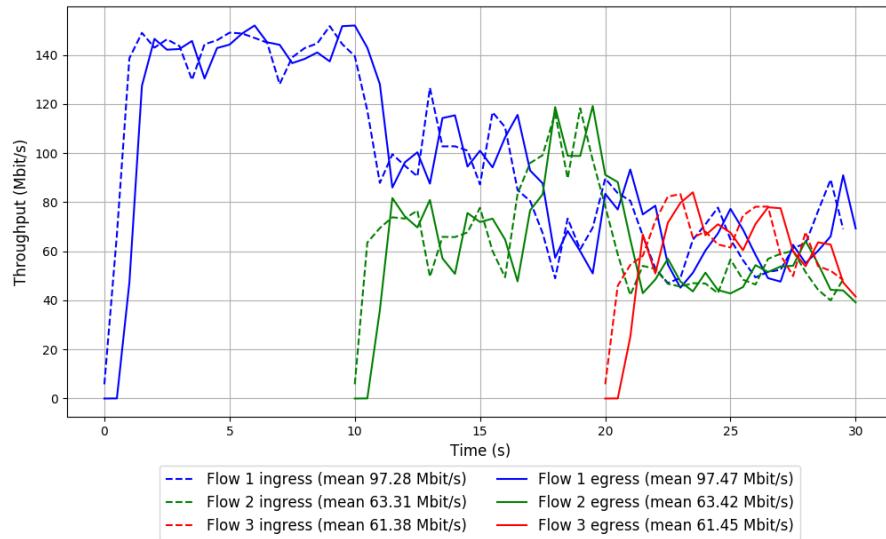


Run 4: Statistics of TaoVA-100x

```
Start at: 2019-01-22 05:19:44
End at: 2019-01-22 05:20:14
Local clock offset: 0.039 ms
Remote clock offset: -48.235 ms

# Below is generated by plot.py at 2019-01-22 06:49:22
# Datalink statistics
-- Total of 3 flows:
Average throughput: 159.69 Mbit/s
95th percentile per-packet one-way delay: 146.126 ms
Loss rate: 0.70%
-- Flow 1:
Average throughput: 97.47 Mbit/s
95th percentile per-packet one-way delay: 146.232 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 63.42 Mbit/s
95th percentile per-packet one-way delay: 145.325 ms
Loss rate: 0.74%
-- Flow 3:
Average throughput: 61.45 Mbit/s
95th percentile per-packet one-way delay: 146.594 ms
Loss rate: 1.81%
```

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

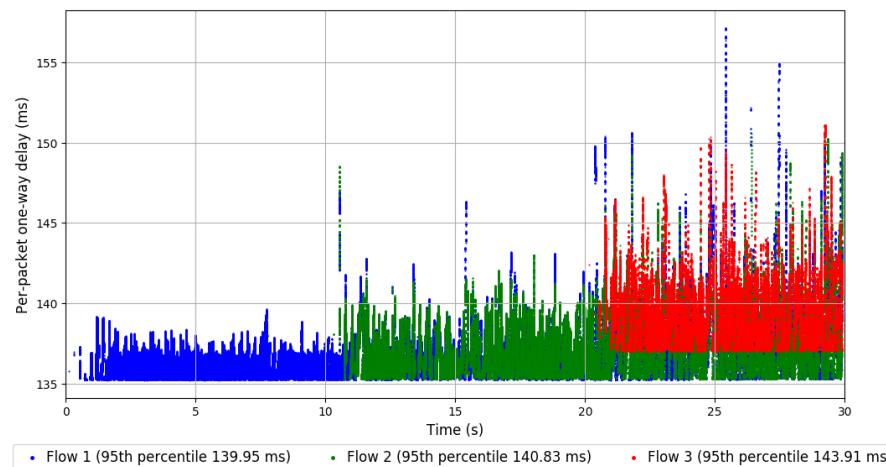
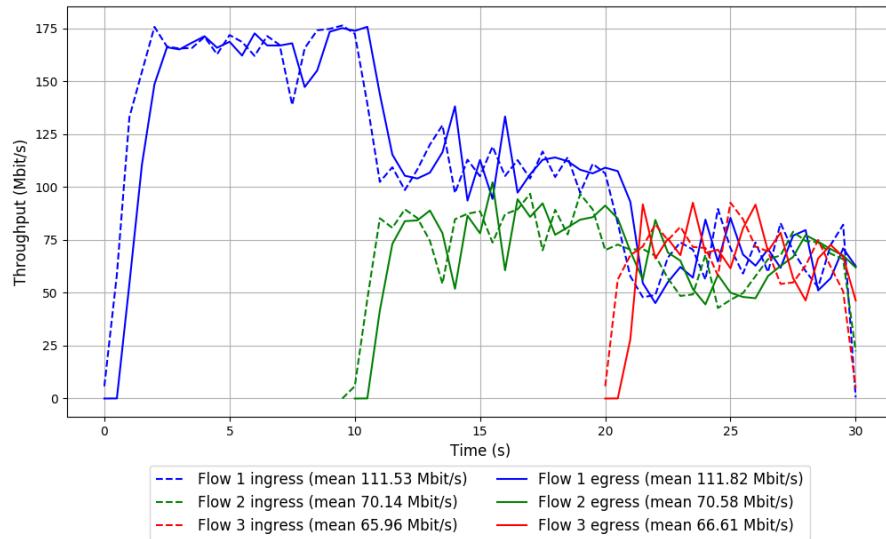


Run 5: Statistics of TaoVA-100x

```
Start at: 2019-01-22 06:13:12
End at: 2019-01-22 06:13:42
Local clock offset: -0.304 ms
Remote clock offset: -43.165 ms

# Below is generated by plot.py at 2019-01-22 06:50:13
# Datalink statistics
-- Total of 3 flows:
Average throughput: 180.45 Mbit/s
95th percentile per-packet one-way delay: 141.236 ms
Loss rate: 1.06%
-- Flow 1:
Average throughput: 111.82 Mbit/s
95th percentile per-packet one-way delay: 139.953 ms
Loss rate: 0.57%
-- Flow 2:
Average throughput: 70.58 Mbit/s
95th percentile per-packet one-way delay: 140.829 ms
Loss rate: 1.79%
-- Flow 3:
Average throughput: 66.61 Mbit/s
95th percentile per-packet one-way delay: 143.915 ms
Loss rate: 1.98%
```

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

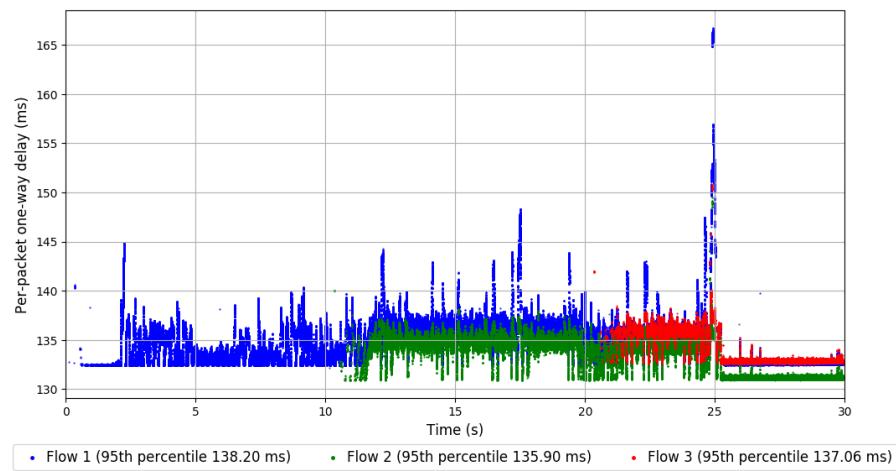
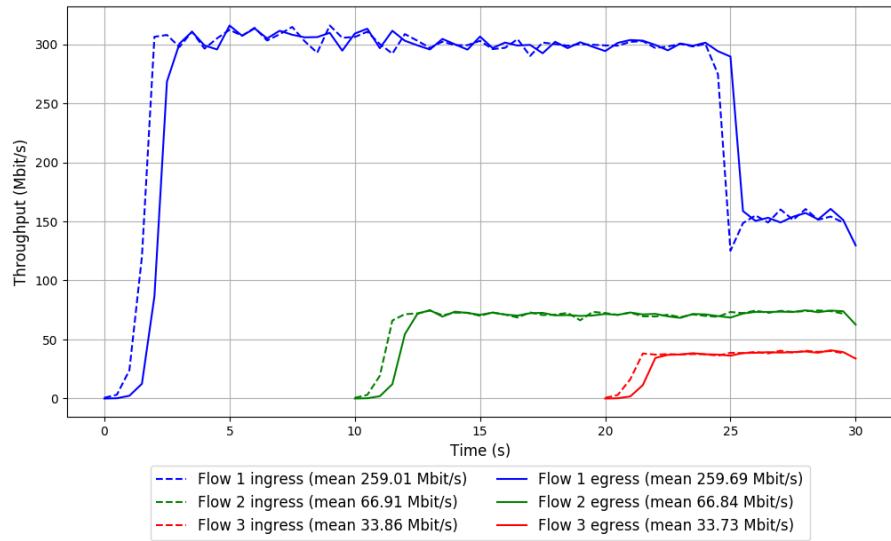


Run 1: Statistics of TCP Vegas

```
Start at: 2019-01-22 02:51:42
End at: 2019-01-22 02:52:12
Local clock offset: 0.525 ms
Remote clock offset: -37.386 ms

# Below is generated by plot.py at 2019-01-22 06:50:32
# Datalink statistics
-- Total of 3 flows:
Average throughput: 315.11 Mbit/s
95th percentile per-packet one-way delay: 137.710 ms
Loss rate: 0.56%
-- Flow 1:
Average throughput: 259.69 Mbit/s
95th percentile per-packet one-way delay: 138.197 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 66.84 Mbit/s
95th percentile per-packet one-way delay: 135.897 ms
Loss rate: 1.08%
-- Flow 3:
Average throughput: 33.73 Mbit/s
95th percentile per-packet one-way delay: 137.055 ms
Loss rate: 2.32%
```

Run 1: Report of TCP Vegas — Data Link

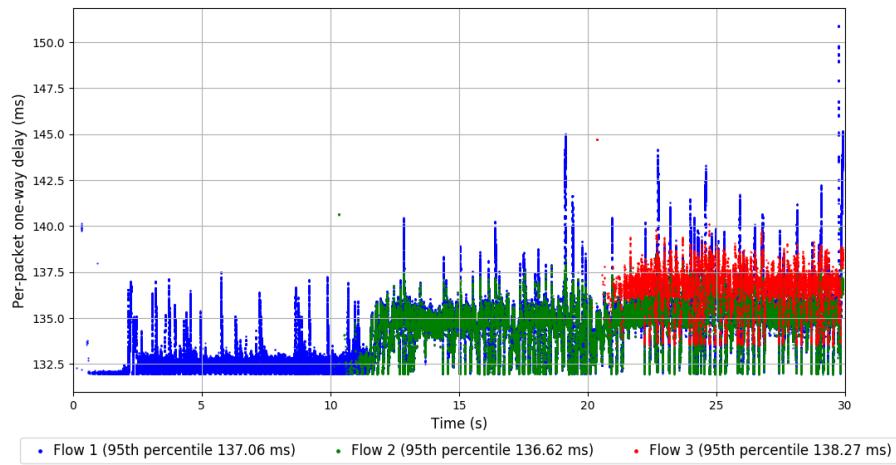
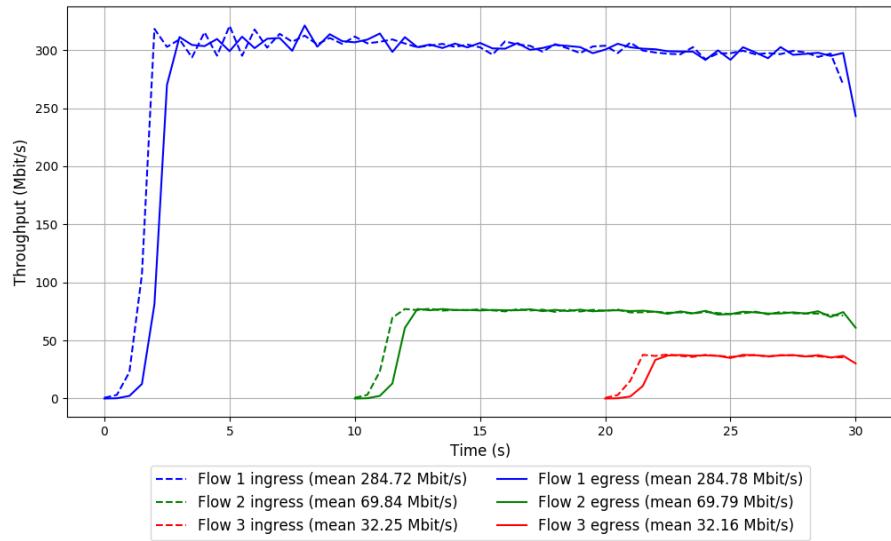


Run 2: Statistics of TCP Vegas

```
Start at: 2019-01-22 03:32:35
End at: 2019-01-22 03:33:05
Local clock offset: 1.278 ms
Remote clock offset: -38.704 ms

# Below is generated by plot.py at 2019-01-22 06:50:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 341.64 Mbit/s
95th percentile per-packet one-way delay: 137.170 ms
Loss rate: 0.74%
-- Flow 1:
Average throughput: 284.78 Mbit/s
95th percentile per-packet one-way delay: 137.055 ms
Loss rate: 0.63%
-- Flow 2:
Average throughput: 69.79 Mbit/s
95th percentile per-packet one-way delay: 136.619 ms
Loss rate: 1.04%
-- Flow 3:
Average throughput: 32.16 Mbit/s
95th percentile per-packet one-way delay: 138.273 ms
Loss rate: 2.26%
```

Run 2: Report of TCP Vegas — Data Link



Run 3: Statistics of TCP Vegas

/home/ubuntu/pantheon/data/2019-01-22T02-27-Saudi-Arabia-to-AWS-India-2-5-runs-3-flows/vegas

Run 3: Report of TCP Vegas — Data Link

Figure is missing

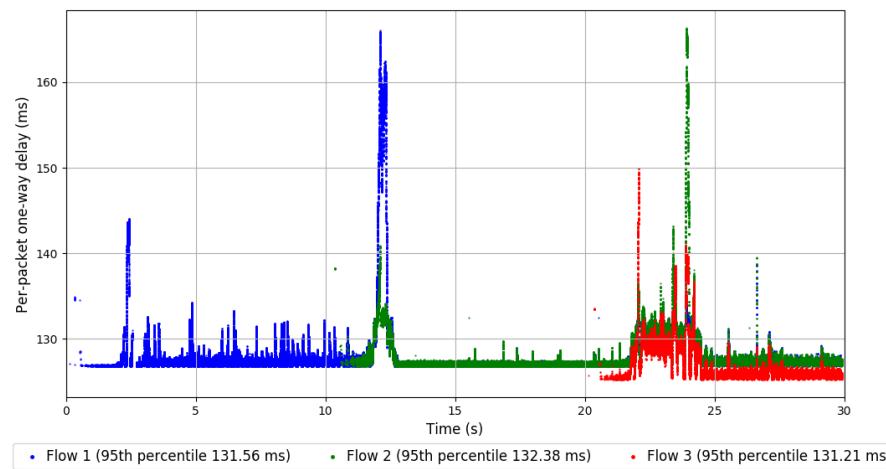
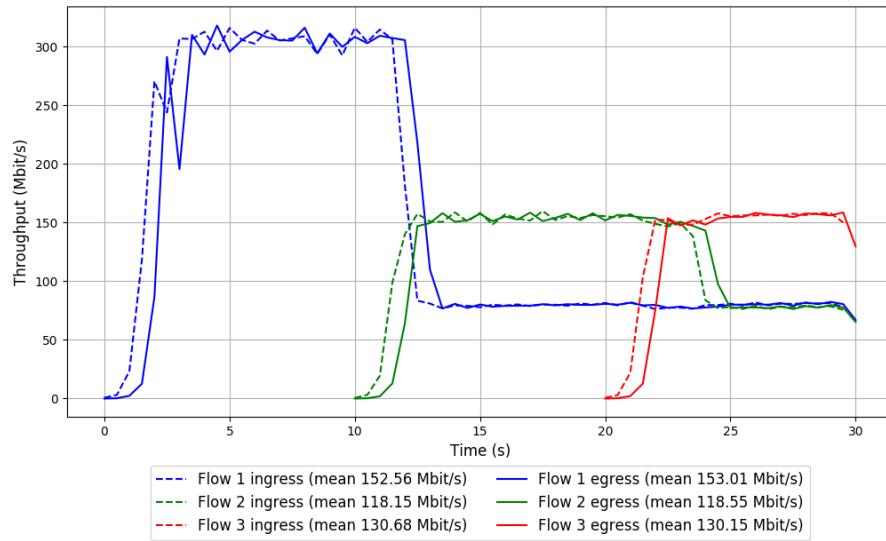
Figure is missing

Run 4: Statistics of TCP Vegas

```
Start at: 2019-01-22 05:04:43
End at: 2019-01-22 05:05:13
Local clock offset: 0.22 ms
Remote clock offset: -34.268 ms

# Below is generated by plot.py at 2019-01-22 06:50:59
# Datalink statistics
-- Total of 3 flows:
Average throughput: 274.28 Mbit/s
95th percentile per-packet one-way delay: 131.864 ms
Loss rate: 0.75%
-- Flow 1:
Average throughput: 153.01 Mbit/s
95th percentile per-packet one-way delay: 131.562 ms
Loss rate: 0.35%
-- Flow 2:
Average throughput: 118.55 Mbit/s
95th percentile per-packet one-way delay: 132.384 ms
Loss rate: 0.65%
-- Flow 3:
Average throughput: 130.15 Mbit/s
95th percentile per-packet one-way delay: 131.210 ms
Loss rate: 2.34%
```

Run 4: Report of TCP Vegas — Data Link

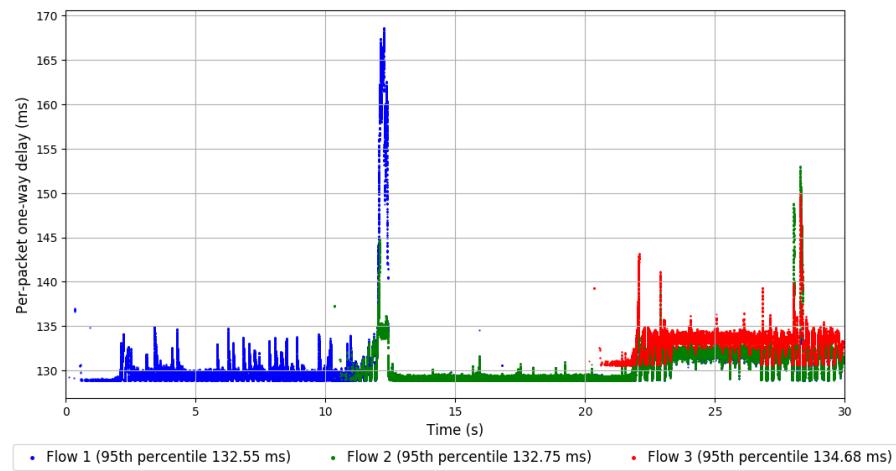
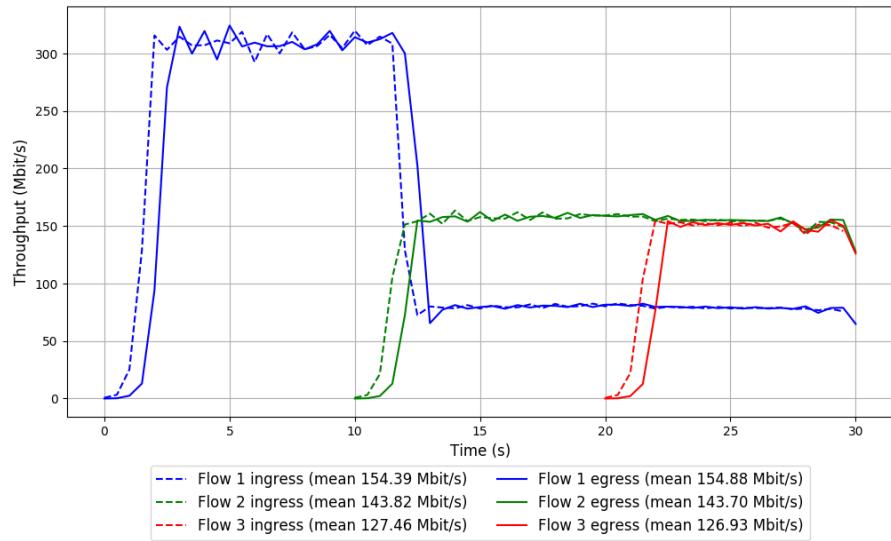


Run 5: Statistics of TCP Vegas

```
Start at: 2019-01-22 05:58:35
End at: 2019-01-22 05:59:05
Local clock offset: -2.58 ms
Remote clock offset: -40.178 ms

# Below is generated by plot.py at 2019-01-22 06:52:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 291.92 Mbit/s
95th percentile per-packet one-way delay: 133.974 ms
Loss rate: 0.86%
-- Flow 1:
Average throughput: 154.88 Mbit/s
95th percentile per-packet one-way delay: 132.553 ms
Loss rate: 0.33%
-- Flow 2:
Average throughput: 143.70 Mbit/s
95th percentile per-packet one-way delay: 132.755 ms
Loss rate: 1.05%
-- Flow 3:
Average throughput: 126.93 Mbit/s
95th percentile per-packet one-way delay: 134.684 ms
Loss rate: 2.37%
```

Run 5: Report of TCP Vegas — Data Link

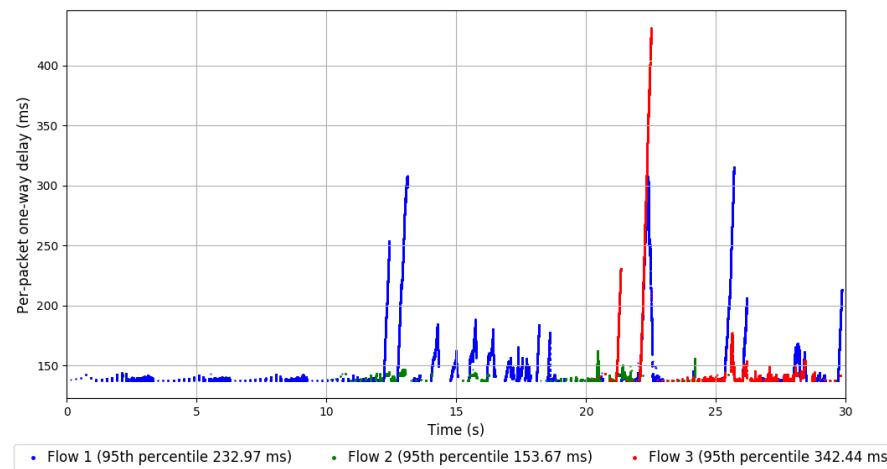
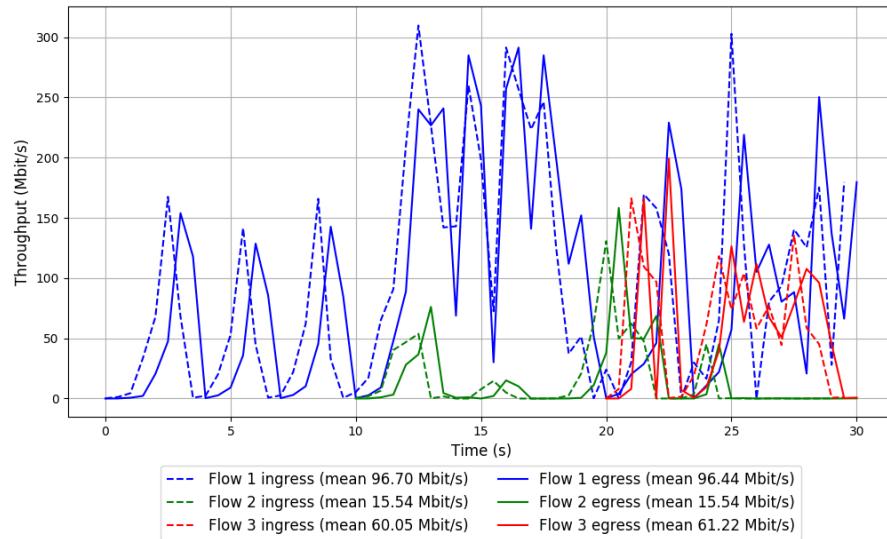


Run 1: Statistics of Verus

```
Start at: 2019-01-22 02:50:15
End at: 2019-01-22 02:50:45
Local clock offset: -0.602 ms
Remote clock offset: -43.837 ms

# Below is generated by plot.py at 2019-01-22 06:52:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 126.46 Mbit/s
95th percentile per-packet one-way delay: 238.763 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 96.44 Mbit/s
95th percentile per-packet one-way delay: 232.971 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 15.54 Mbit/s
95th percentile per-packet one-way delay: 153.667 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 61.22 Mbit/s
95th percentile per-packet one-way delay: 342.445 ms
Loss rate: 0.08%
```

Run 1: Report of Verus — Data Link

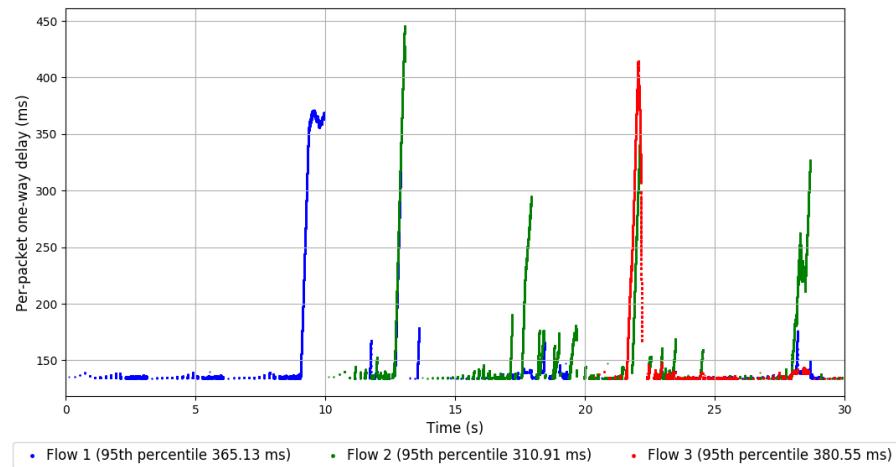
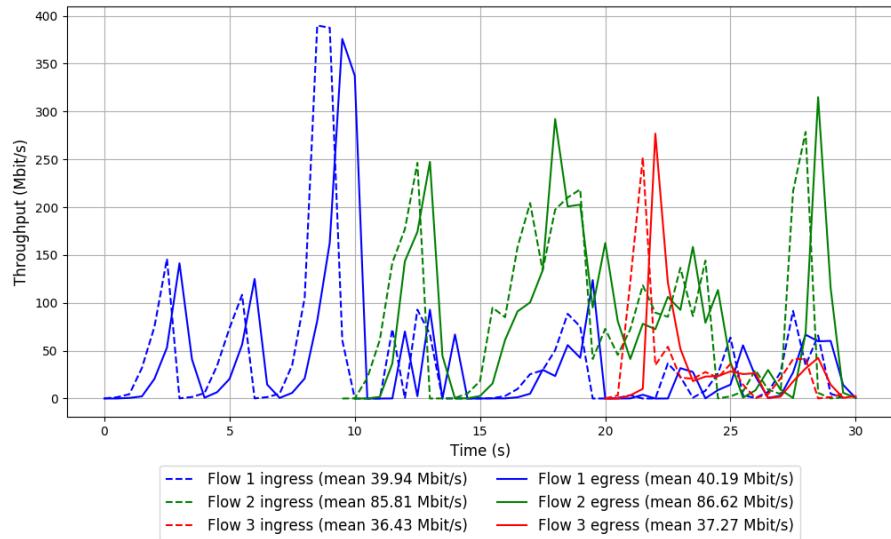


Run 2: Statistics of Verus

```
Start at: 2019-01-22 03:31:10
End at: 2019-01-22 03:31:40
Local clock offset: 1.777 ms
Remote clock offset: -38.772 ms

# Below is generated by plot.py at 2019-01-22 06:52:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 109.63 Mbit/s
95th percentile per-packet one-way delay: 364.090 ms
Loss rate: 0.10%
-- Flow 1:
Average throughput: 40.19 Mbit/s
95th percentile per-packet one-way delay: 365.129 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 86.62 Mbit/s
95th percentile per-packet one-way delay: 310.914 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 37.27 Mbit/s
95th percentile per-packet one-way delay: 380.545 ms
Loss rate: 0.50%
```

Run 2: Report of Verus — Data Link

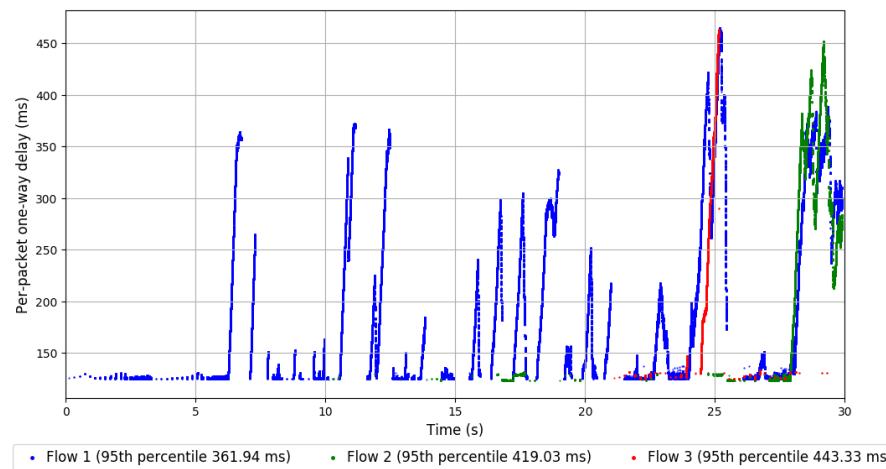
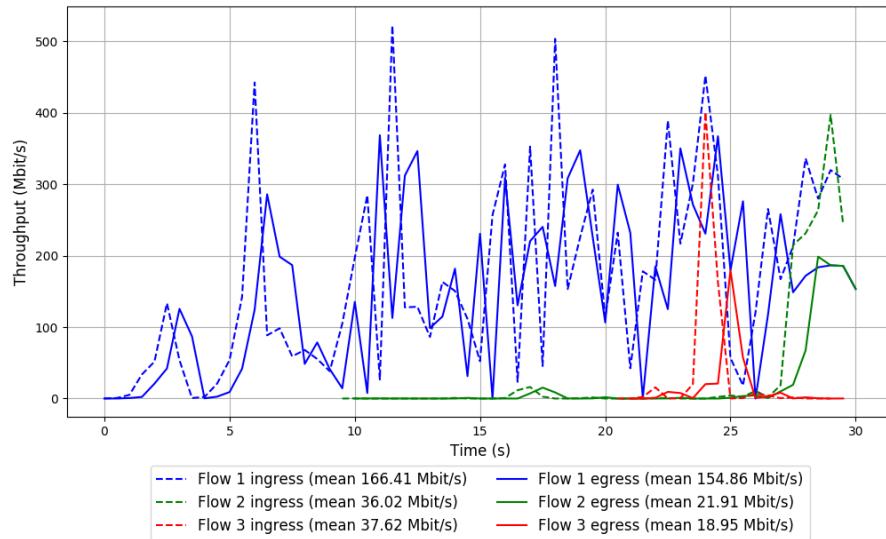


Run 3: Statistics of Verus

```
Start at: 2019-01-22 04:02:13
End at: 2019-01-22 04:02:43
Local clock offset: -0.213 ms
Remote clock offset: -32.071 ms

# Below is generated by plot.py at 2019-01-22 06:52:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 174.64 Mbit/s
95th percentile per-packet one-way delay: 372.360 ms
Loss rate: 13.48%
-- Flow 1:
Average throughput: 154.86 Mbit/s
95th percentile per-packet one-way delay: 361.935 ms
Loss rate: 7.56%
-- Flow 2:
Average throughput: 21.91 Mbit/s
95th percentile per-packet one-way delay: 419.028 ms
Loss rate: 39.24%
-- Flow 3:
Average throughput: 18.95 Mbit/s
95th percentile per-packet one-way delay: 443.327 ms
Loss rate: 49.61%
```

Run 3: Report of Verus — Data Link

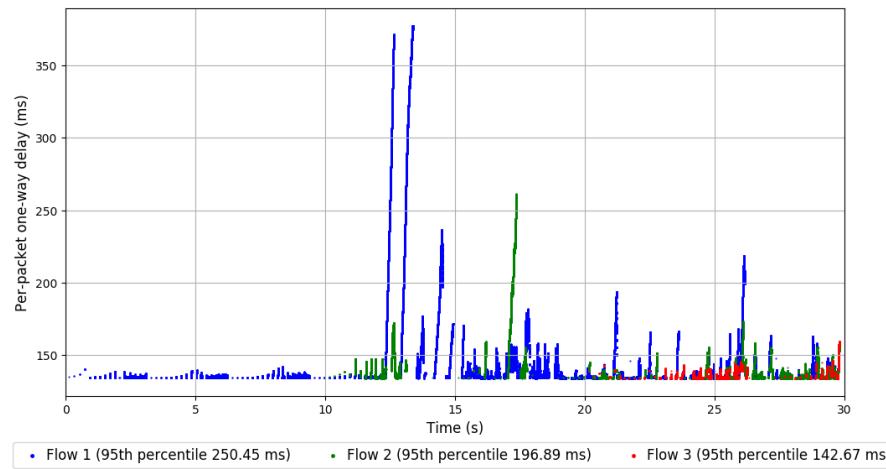
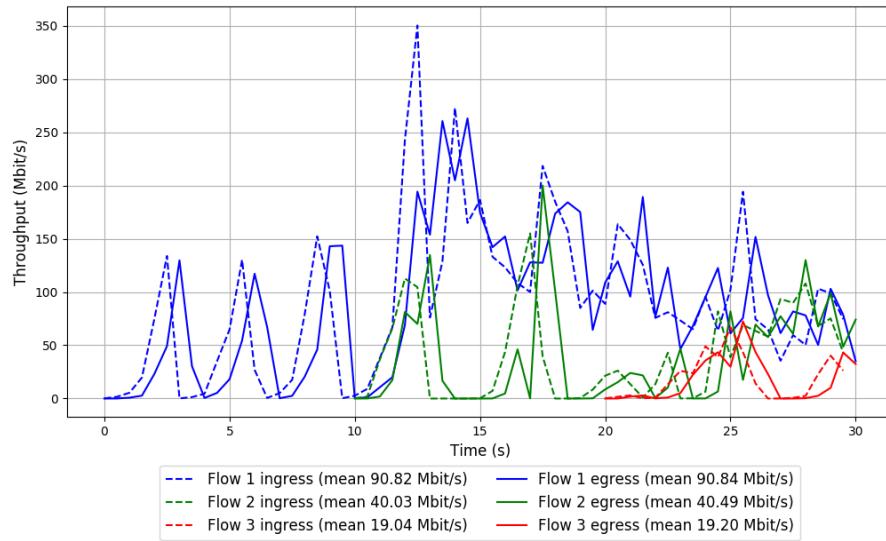


Run 4: Statistics of Verus

```
Start at: 2019-01-22 04:53:31
End at: 2019-01-22 04:54:01
Local clock offset: -0.61 ms
Remote clock offset: -41.852 ms

# Below is generated by plot.py at 2019-01-22 06:52:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 123.80 Mbit/s
95th percentile per-packet one-way delay: 225.448 ms
Loss rate: 0.94%
-- Flow 1:
Average throughput: 90.84 Mbit/s
95th percentile per-packet one-way delay: 250.453 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 40.49 Mbit/s
95th percentile per-packet one-way delay: 196.892 ms
Loss rate: 0.35%
-- Flow 3:
Average throughput: 19.20 Mbit/s
95th percentile per-packet one-way delay: 142.672 ms
Loss rate: 1.05%
```

Run 4: Report of Verus — Data Link

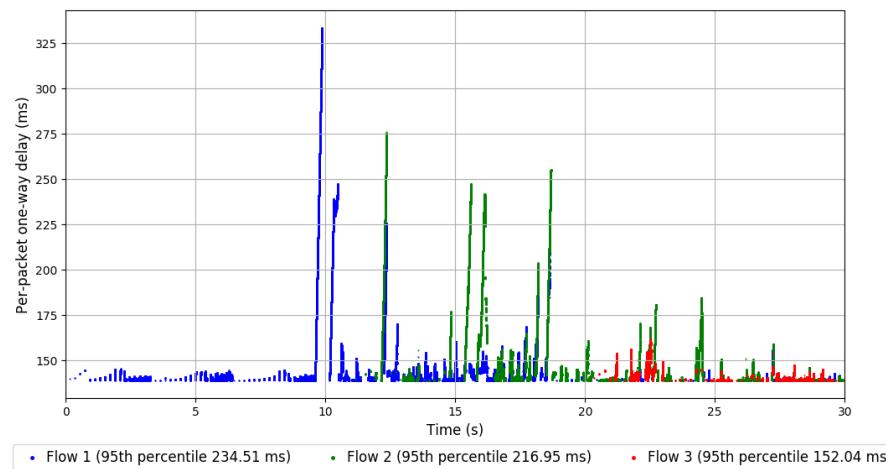
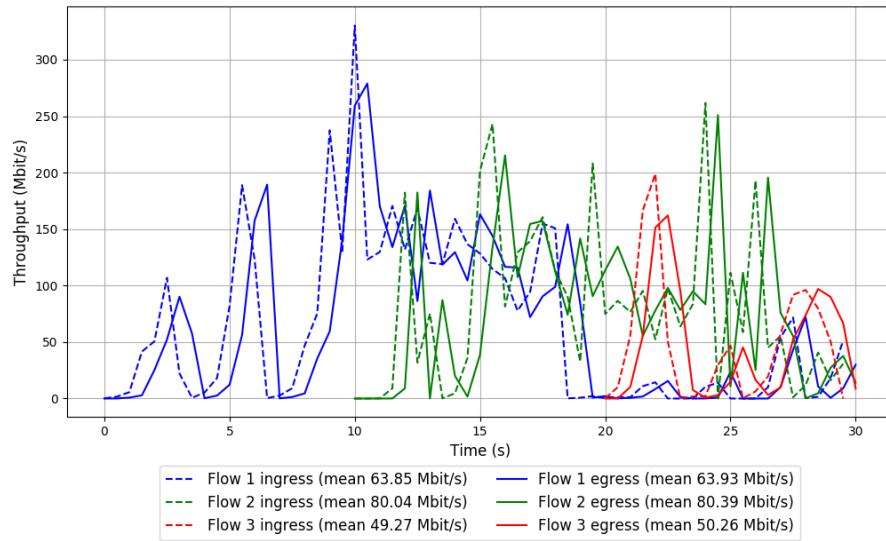


Run 5: Statistics of Verus

```
Start at: 2019-01-22 05:57:08
End at: 2019-01-22 05:57:38
Local clock offset: 0.369 ms
Remote clock offset: -45.942 ms

# Below is generated by plot.py at 2019-01-22 06:52:28
# Datalink statistics
-- Total of 3 flows:
Average throughput: 133.29 Mbit/s
95th percentile per-packet one-way delay: 224.378 ms
Loss rate: 0.61%
-- Flow 1:
Average throughput: 63.93 Mbit/s
95th percentile per-packet one-way delay: 234.514 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 80.39 Mbit/s
95th percentile per-packet one-way delay: 216.947 ms
Loss rate: 0.53%
-- Flow 3:
Average throughput: 50.26 Mbit/s
95th percentile per-packet one-way delay: 152.037 ms
Loss rate: 0.01%
```

Run 5: Report of Verus — Data Link

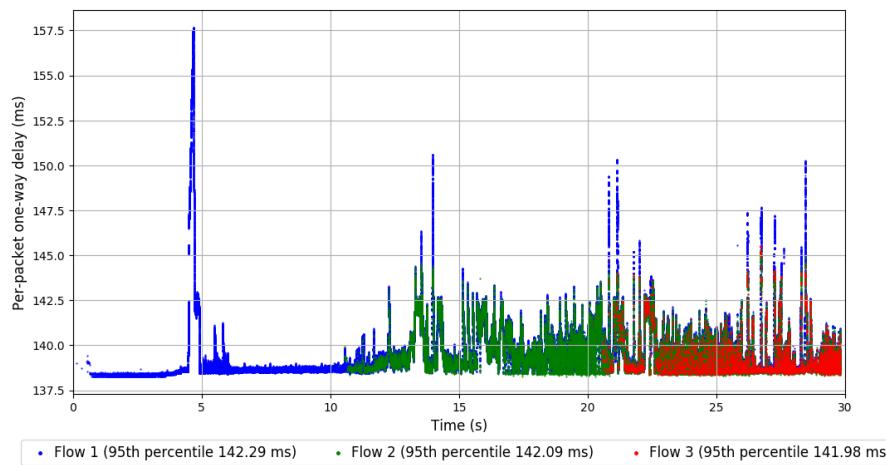
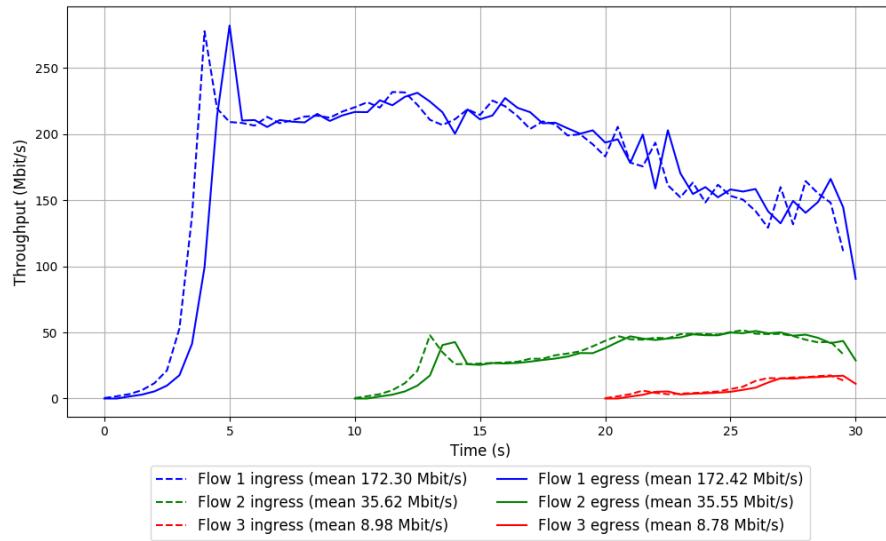


Run 1: Statistics of PCC-Vivace

```
Start at: 2019-01-22 02:56:10
End at: 2019-01-22 02:56:40
Local clock offset: -2.717 ms
Remote clock offset: -47.588 ms

# Below is generated by plot.py at 2019-01-22 06:52:37
# Datalink statistics
-- Total of 3 flows:
Average throughput: 198.80 Mbit/s
95th percentile per-packet one-way delay: 142.262 ms
Loss rate: 0.73%
-- Flow 1:
Average throughput: 172.42 Mbit/s
95th percentile per-packet one-way delay: 142.295 ms
Loss rate: 0.60%
-- Flow 2:
Average throughput: 35.55 Mbit/s
95th percentile per-packet one-way delay: 142.089 ms
Loss rate: 1.20%
-- Flow 3:
Average throughput: 8.78 Mbit/s
95th percentile per-packet one-way delay: 141.984 ms
Loss rate: 4.17%
```

Run 1: Report of PCC-Vivace — Data Link

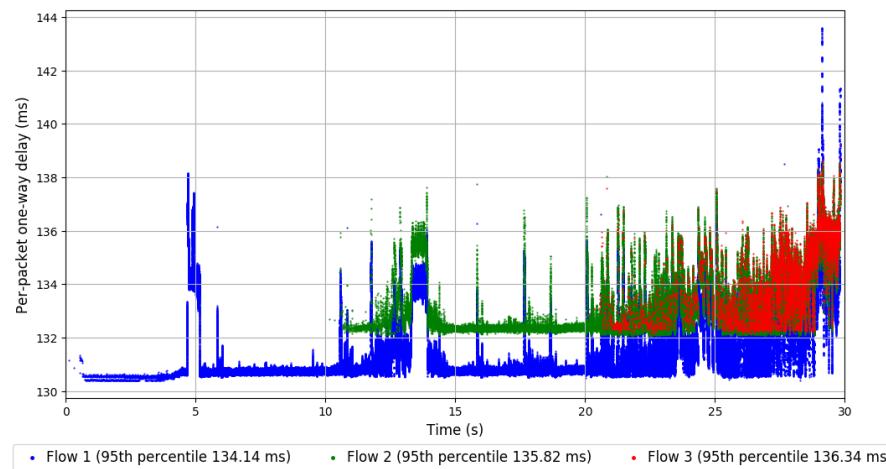
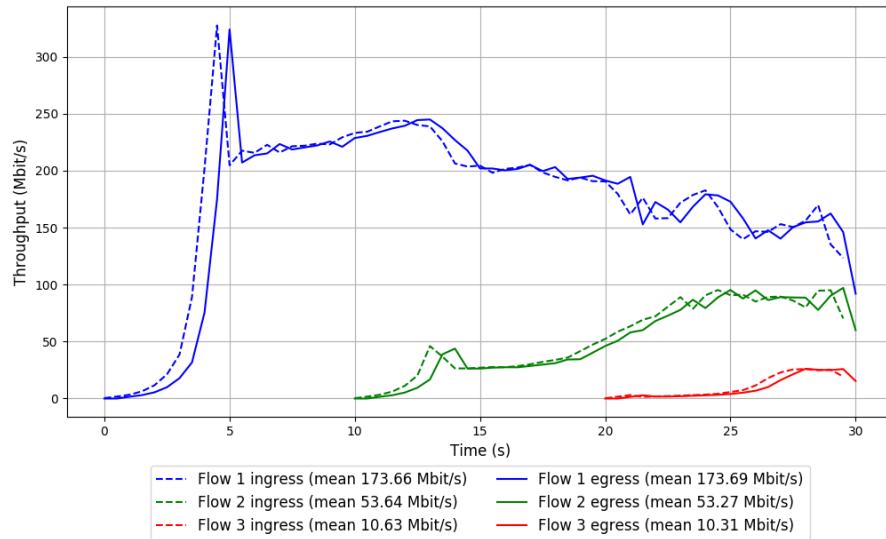


Run 2: Statistics of PCC-Vivace

```
Start at: 2019-01-22 03:37:05
End at: 2019-01-22 03:37:35
Local clock offset: 0.22 ms
Remote clock offset: -38.501 ms

# Below is generated by plot.py at 2019-01-22 06:52:44
# Datalink statistics
-- Total of 3 flows:
Average throughput: 212.33 Mbit/s
95th percentile per-packet one-way delay: 134.911 ms
Loss rate: 0.90%
-- Flow 1:
Average throughput: 173.69 Mbit/s
95th percentile per-packet one-way delay: 134.140 ms
Loss rate: 0.66%
-- Flow 2:
Average throughput: 53.27 Mbit/s
95th percentile per-packet one-way delay: 135.822 ms
Loss rate: 1.69%
-- Flow 3:
Average throughput: 10.31 Mbit/s
95th percentile per-packet one-way delay: 136.342 ms
Loss rate: 4.91%
```

Run 2: Report of PCC-Vivace — Data Link

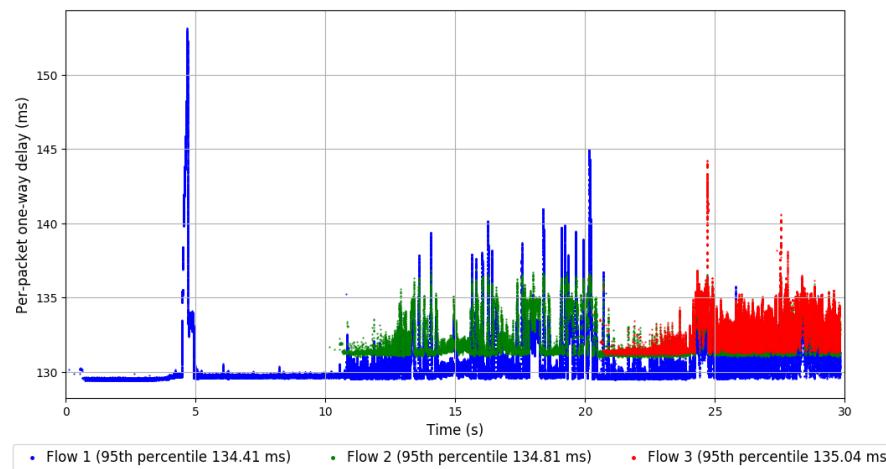
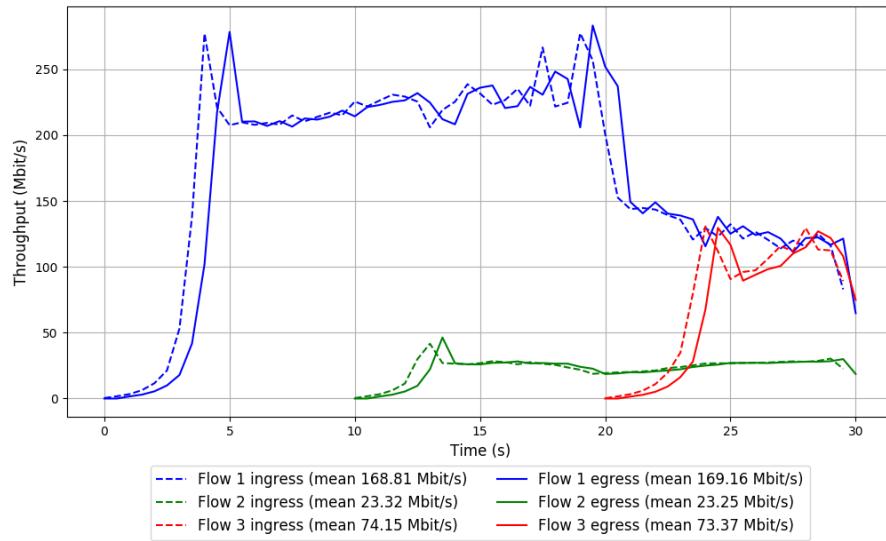


Run 3: Statistics of PCC-Vivace

```
Start at: 2019-01-22 04:12:42
End at: 2019-01-22 04:13:12
Local clock offset: -0.661 ms
Remote clock offset: -38.546 ms

# Below is generated by plot.py at 2019-01-22 06:52:46
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.41 Mbit/s
95th percentile per-packet one-way delay: 134.810 ms
Loss rate: 0.82%
-- Flow 1:
Average throughput: 169.16 Mbit/s
95th percentile per-packet one-way delay: 134.413 ms
Loss rate: 0.45%
-- Flow 2:
Average throughput: 23.25 Mbit/s
95th percentile per-packet one-way delay: 134.808 ms
Loss rate: 1.29%
-- Flow 3:
Average throughput: 73.37 Mbit/s
95th percentile per-packet one-way delay: 135.038 ms
Loss rate: 3.10%
```

Run 3: Report of PCC-Vivace — Data Link

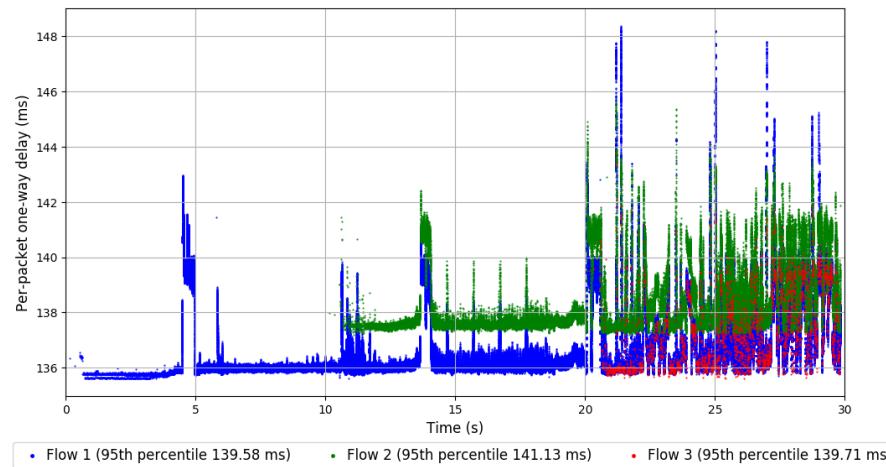
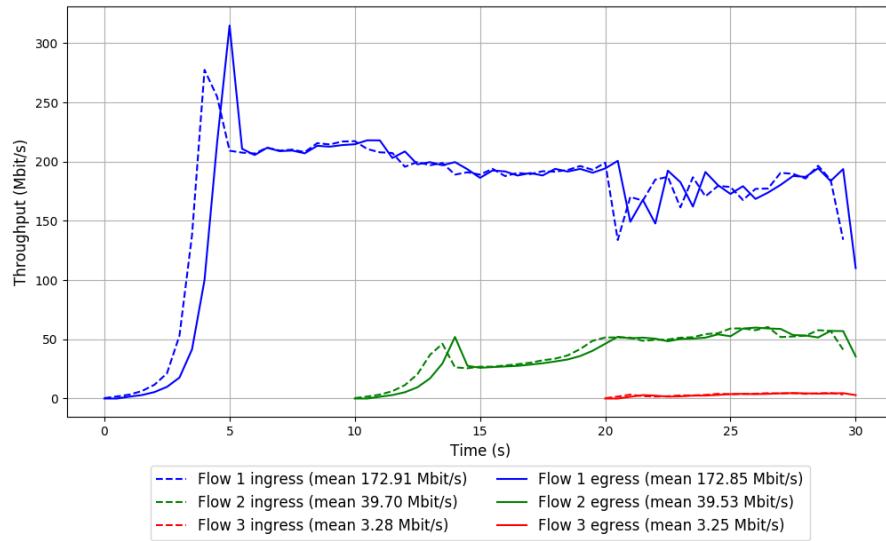


Run 4: Statistics of PCC-Vivace

```
Start at: 2019-01-22 05:14:59
End at: 2019-01-22 05:15:29
Local clock offset: 1.944 ms
Remote clock offset: -43.495 ms

# Below is generated by plot.py at 2019-01-22 06:52:48
# Datalink statistics
-- Total of 3 flows:
Average throughput: 200.09 Mbit/s
95th percentile per-packet one-way delay: 139.970 ms
Loss rate: 0.80%
-- Flow 1:
Average throughput: 172.85 Mbit/s
95th percentile per-packet one-way delay: 139.576 ms
Loss rate: 0.69%
-- Flow 2:
Average throughput: 39.53 Mbit/s
95th percentile per-packet one-way delay: 141.135 ms
Loss rate: 1.41%
-- Flow 3:
Average throughput: 3.25 Mbit/s
95th percentile per-packet one-way delay: 139.711 ms
Loss rate: 2.87%
```

Run 4: Report of PCC-Vivace — Data Link

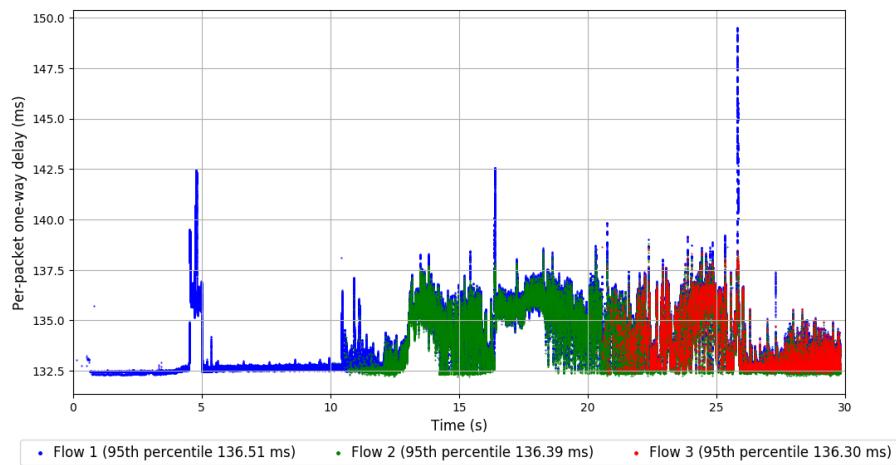
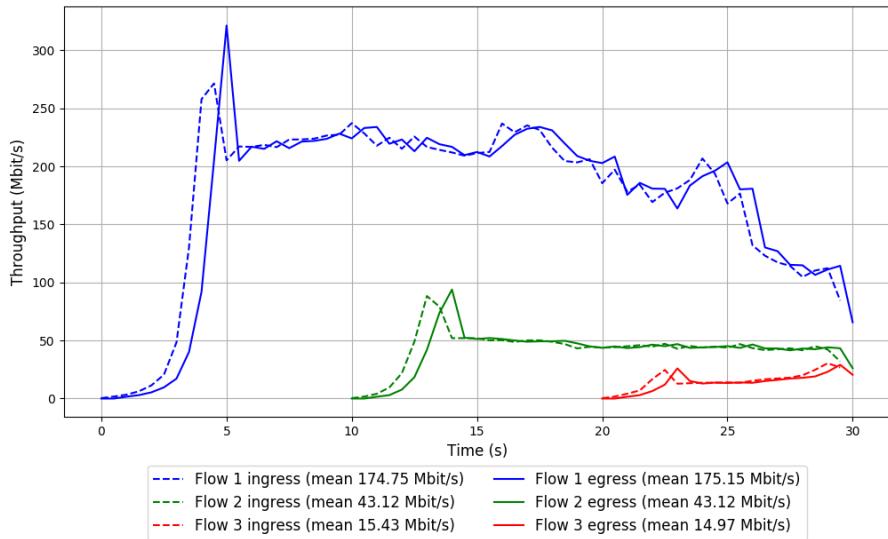


Run 5: Statistics of PCC-Vivace

```
Start at: 2019-01-22 06:03:04
End at: 2019-01-22 06:03:34
Local clock offset: -1.988 ms
Remote clock offset: -41.378 ms

# Below is generated by plot.py at 2019-01-22 06:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 208.58 Mbit/s
95th percentile per-packet one-way delay: 136.490 ms
Loss rate: 0.63%
-- Flow 1:
Average throughput: 175.15 Mbit/s
95th percentile per-packet one-way delay: 136.511 ms
Loss rate: 0.44%
-- Flow 2:
Average throughput: 43.12 Mbit/s
95th percentile per-packet one-way delay: 136.389 ms
Loss rate: 0.99%
-- Flow 3:
Average throughput: 14.97 Mbit/s
95th percentile per-packet one-way delay: 136.301 ms
Loss rate: 4.94%
```

Run 5: Report of PCC-Vivace — Data Link

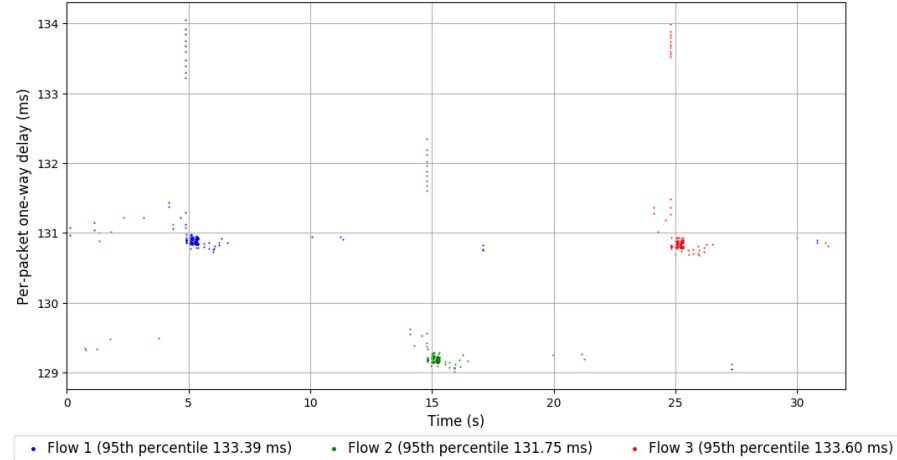
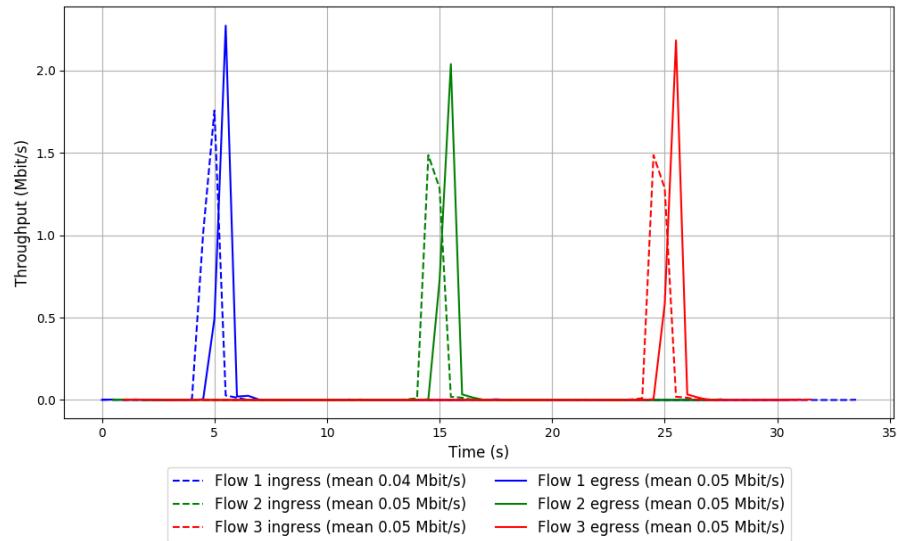


Run 1: Statistics of WebRTC media

```
Start at: 2019-01-22 02:46:03
End at: 2019-01-22 02:46:33
Local clock offset: -1.389 ms
Remote clock offset: -38.611 ms

# Below is generated by plot.py at 2019-01-22 06:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 132.120 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.392 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 131.748 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 133.601 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link

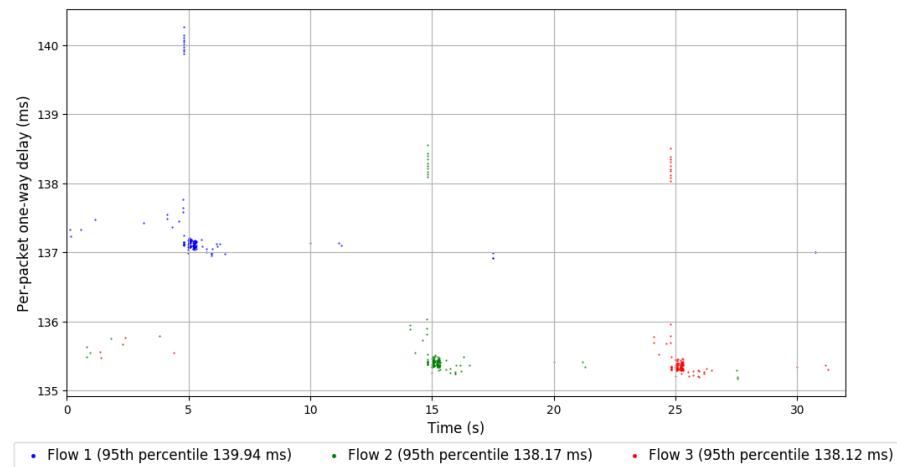
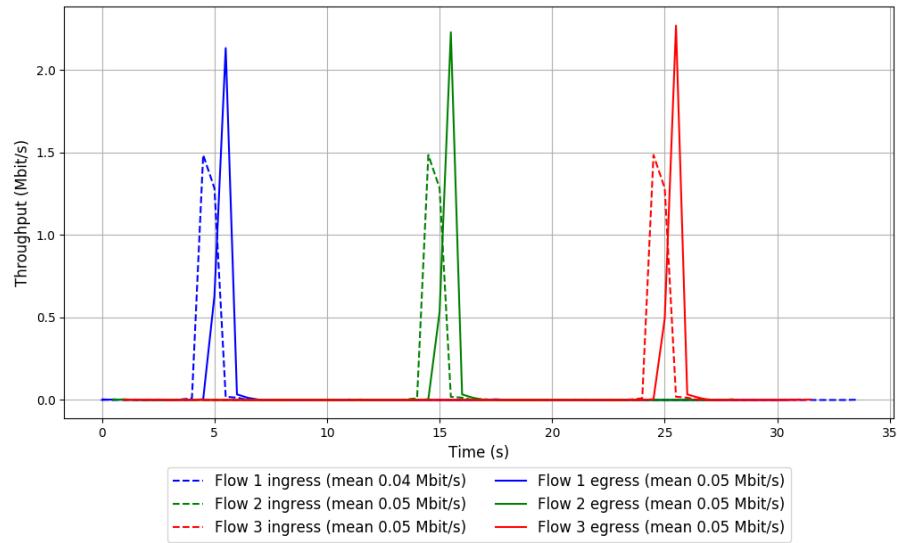


Run 2: Statistics of WebRTC media

```
Start at: 2019-01-22 03:27:06
End at: 2019-01-22 03:27:36
Local clock offset: -1.884 ms
Remote clock offset: -44.889 ms

# Below is generated by plot.py at 2019-01-22 06:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 138.211 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 139.941 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 138.167 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 138.119 ms
Loss rate: 0.00%
```

Run 2: Report of WebRTC media — Data Link

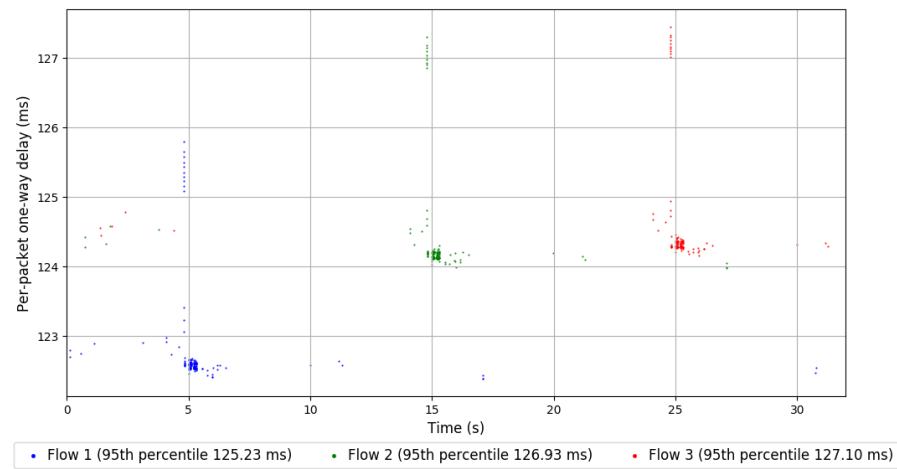
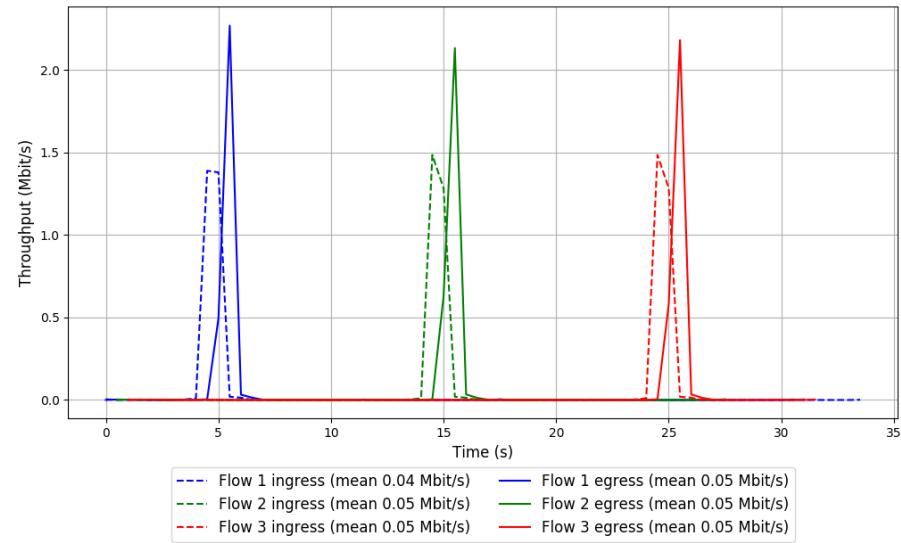


Run 3: Statistics of WebRTC media

```
Start at: 2019-01-22 03:58:07
End at: 2019-01-22 03:58:37
Local clock offset: -1.309 ms
Remote clock offset: -32.013 ms

# Below is generated by plot.py at 2019-01-22 06:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 125.583 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 125.231 ms
Loss rate: 0.05%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 126.934 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 127.097 ms
Loss rate: 0.00%
```

Run 3: Report of WebRTC media — Data Link

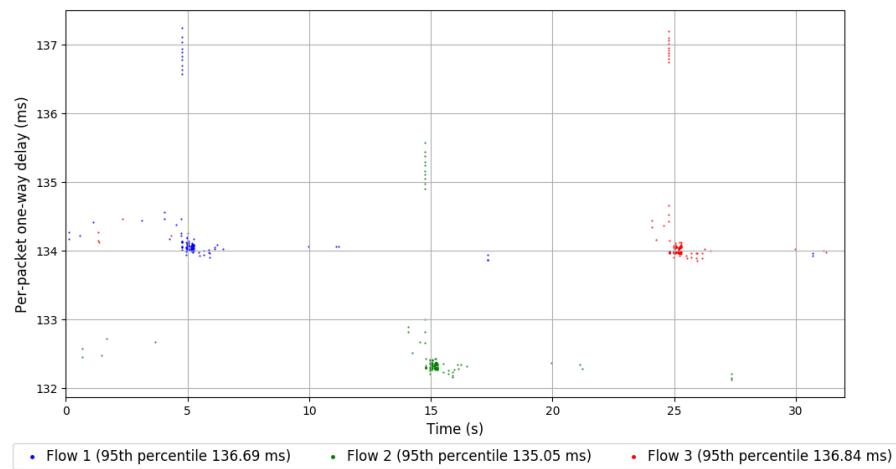
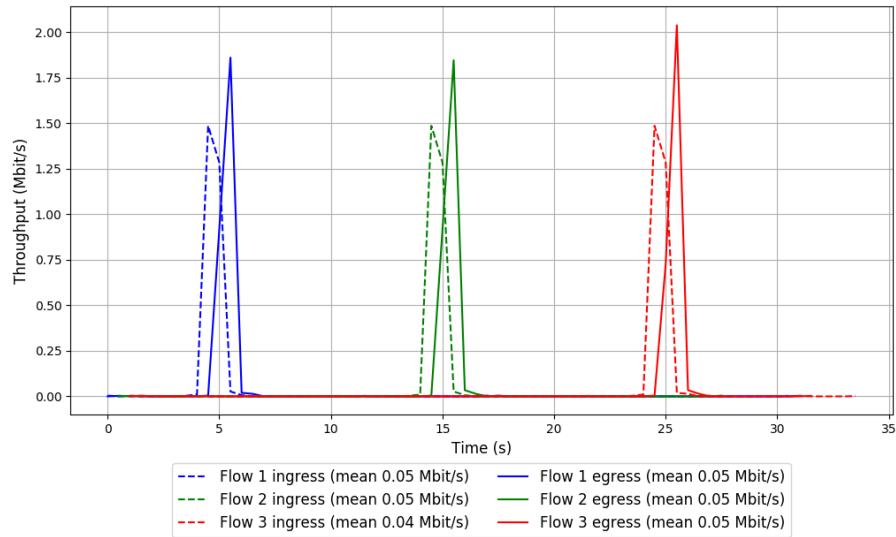


Run 4: Statistics of WebRTC media

```
Start at: 2019-01-22 04:49:27
End at: 2019-01-22 04:49:57
Local clock offset: 0.38 ms
Remote clock offset: -40.301 ms

# Below is generated by plot.py at 2019-01-22 06:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 135.383 ms
Loss rate: 0.02%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.695 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 135.046 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 136.842 ms
Loss rate: 0.05%
```

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

```
Start at: 2019-01-22 05:53:02
End at: 2019-01-22 05:53:32
Local clock offset: -2.211 ms
Remote clock offset: -36.593 ms

# Below is generated by plot.py at 2019-01-22 06:52:53
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 128.960 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 128.711 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 130.462 ms
Loss rate: 0.05%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 130.464 ms
Loss rate: 0.05%
```

Run 5: Report of WebRTC media — Data Link

