

Pantheon Report

Generated at 2018-05-26 09:03:55 (UTC).

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

Repeated the test of 16 congestion control schemes 10 times.

Each test lasted for 30 seconds running 3 flows with 10-second interval between two flows.

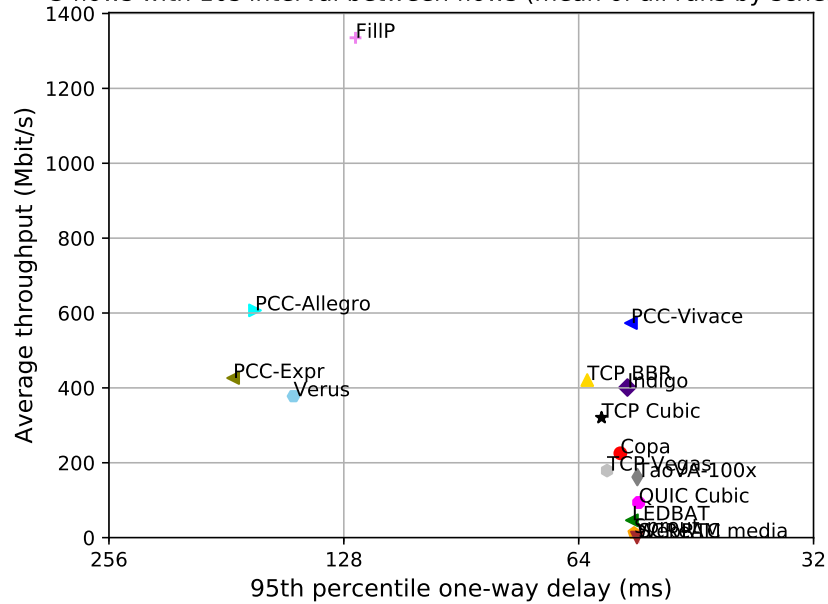
Increased UDP receive buffer to 16 MB (default) and 32 MB (max).

NTP offsets were measured against `time.google.com` and have been applied to correct the timestamps in logs.

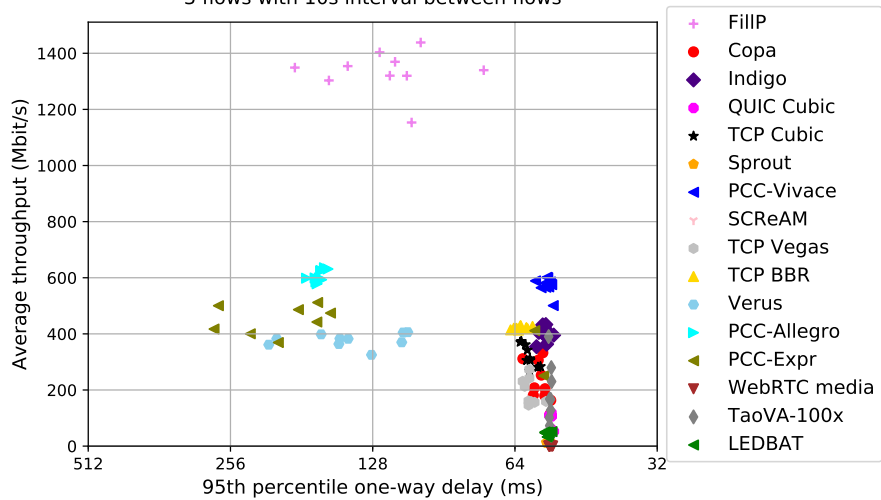
Git summary:

```
branch: master @ 0088822873ea99180f63545a341ef069f40efe59
third_party/illp @ d47f4fa1b454a5e3c0537115c5a28436dbd4b834
third_party/genericCC @ c7966e494a929986eaa5a9c169a7f381fe1bbbe5
third_party/indigo @ 2601c92e4aa9d58d38dc4dfe0ecdbf90c077e64d
third_party/libutp @ b3465b942e2826f2b179eaab4a906ce6bb7cf3cf
third_party/pantheon-tunnel @ 6f038ed31259d366f9840f65b82cbe8f464b1b39
third_party/pcc @ 1afc958fa0d66d18b623c091a55fec872b4981e1
M receiver/src/buffer.h
M receiver/src/core.cpp
M sender/src/buffer.h
M sender/src/core.cpp
third_party/pcc-experimental @ cd43e34e3f5f5613e8acd08fab92c4eb24f974ab
third_party/proto-quick @ 77961f1a82733a86b42f1bc8143ebc978f3cff42
third_party/scream-reproduce @ f099118d1421aa3131bf11ff1964974e1da3bdb2
third_party/sprout @ c838669682f0c19f6baf92afc9a596a406d48c1f
third_party/verus @ d4b447ea74c6c60a261149af2629562939f9a494
M src/verus.hpp
M tools/plot.py
third_party/vivace @ 2baf86211435ae071a32f96b7d8c504587f5d7f4
third_party/webrtc @ 3f0cc2a9061a41b6f9dde4735770d143a1fa2851
```

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



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



scheme	# runs	mean avg tput (Mbit/s)			mean 95th-%ile delay (ms)			mean loss rate (%)		
		flow 1	flow 2	flow 3	flow 1	flow 2	flow 3	flow 1	flow 2	flow 3
TCP BBR	10	213.70	210.35	202.19	61.06	62.51	63.90	0.01	0.02	0.05
Copa	10	137.87	87.25	97.49	56.07	54.94	59.87	0.00	0.00	0.00
TCP Cubic	10	186.06	141.72	120.53	59.13	59.05	58.09	0.01	0.02	0.08
FillP	10	725.91	641.62	550.00	135.49	86.07	83.33	0.81	0.30	0.30
Indigo	10	208.53	204.41	174.24	54.88	55.57	56.51	0.00	0.01	0.01
LEDBAT	10	29.22	20.92	9.77	54.64	54.84	54.26	0.00	0.00	0.00
PCC-Allegro	10	532.78	85.73	52.61	166.34	166.25	150.86	1.79	1.81	2.83
PCC-Expr	10	296.67	152.72	85.13	148.04	137.16	108.79	3.75	4.13	3.94
QUIC Cubic	10	46.56	56.43	29.96	51.98	53.52	53.05	0.00	0.01	0.01
SCReAM	10	0.21	0.21	0.22	52.06	53.02	52.88	0.00	0.00	0.03
Sprout	10	6.39	6.29	6.18	54.33	54.37	54.30	0.00	0.00	0.00
TaoVA-100x	10	90.00	88.96	86.81	53.75	53.76	53.82	0.00	0.00	0.00
TCP Vegas	10	100.60	65.01	106.13	58.26	57.89	57.84	0.01	0.01	0.02
Verus	10	226.02	162.77	141.52	135.69	156.51	160.60	0.91	1.49	2.54
PCC-Vivace	10	351.53	289.04	89.19	54.94	54.62	52.39	0.00	0.00	0.00
WebRTC media	10	0.05	0.05	0.05	53.33	53.37	53.88	0.00	0.00	0.00

Run 1: Statistics of TCP BBR

Start at: 2018-05-26 02:40:50

End at: 2018-05-26 02:41:20

Local clock offset: -0.46 ms

Remote clock offset: 0.058 ms

Below is generated by plot.py at 2018-05-26 06:54:13

Datalink statistics

-- Total of 3 flows:

Average throughput: 418.48 Mbit/s

95th percentile per-packet one-way delay: 60.189 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 212.73 Mbit/s

95th percentile per-packet one-way delay: 59.427 ms

Loss rate: 0.04%

-- Flow 2:

Average throughput: 209.92 Mbit/s

95th percentile per-packet one-way delay: 60.335 ms

Loss rate: 0.05%

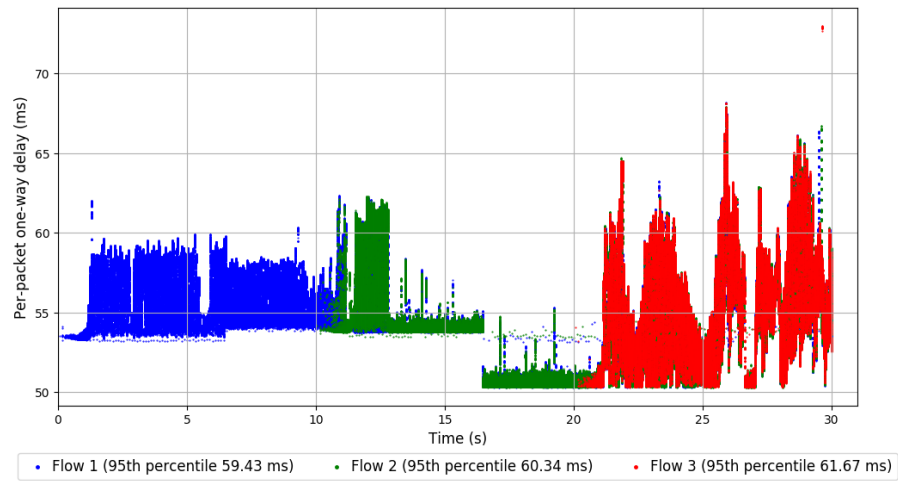
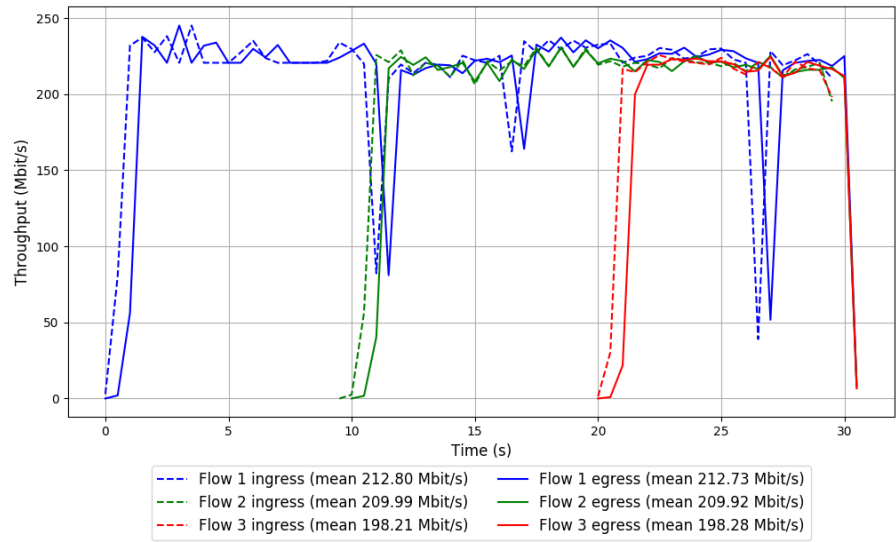
-- Flow 3:

Average throughput: 198.28 Mbit/s

95th percentile per-packet one-way delay: 61.671 ms

Loss rate: 0.02%

Run 1: Report of TCP BBR — Data Link



Run 2: Statistics of TCP BBR

Start at: 2018-05-26 03:03:41

End at: 2018-05-26 03:04:11

Local clock offset: -0.281 ms

Remote clock offset: 0.197 ms

Below is generated by plot.py at 2018-05-26 06:54:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 429.69 Mbit/s

95th percentile per-packet one-way delay: 62.265 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 217.89 Mbit/s

95th percentile per-packet one-way delay: 60.474 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 215.06 Mbit/s

95th percentile per-packet one-way delay: 62.585 ms

Loss rate: 0.00%

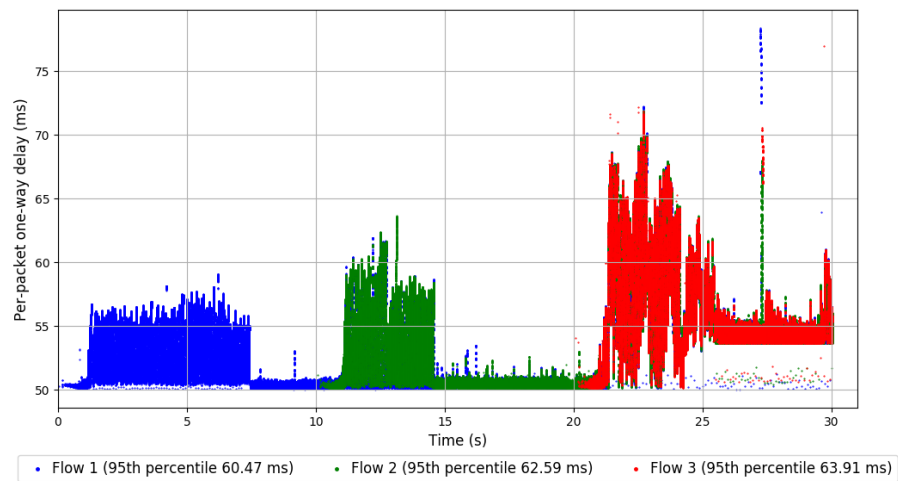
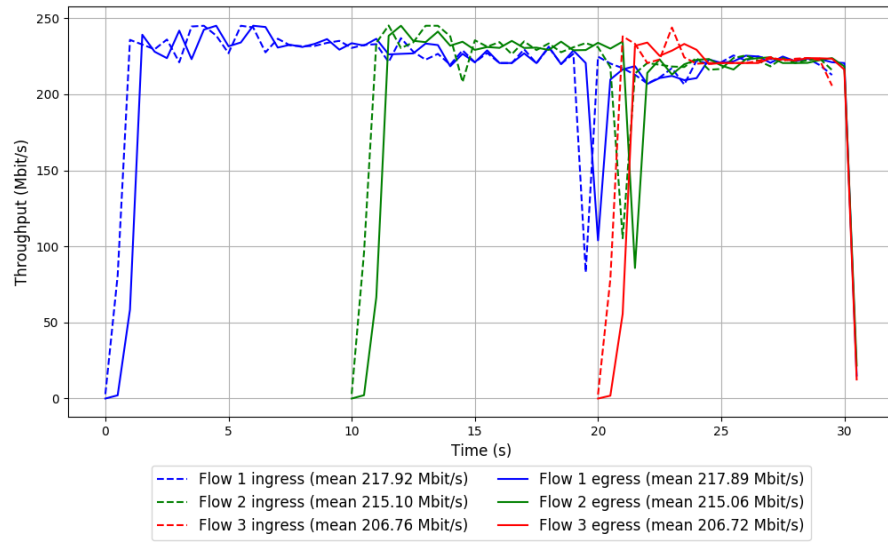
-- Flow 3:

Average throughput: 206.72 Mbit/s

95th percentile per-packet one-way delay: 63.906 ms

Loss rate: 0.00%

Run 2: Report of TCP BBR — Data Link

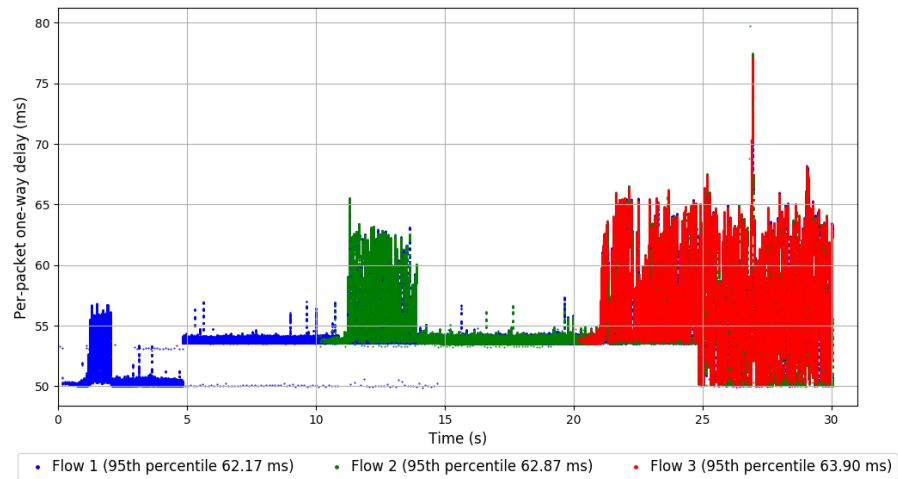
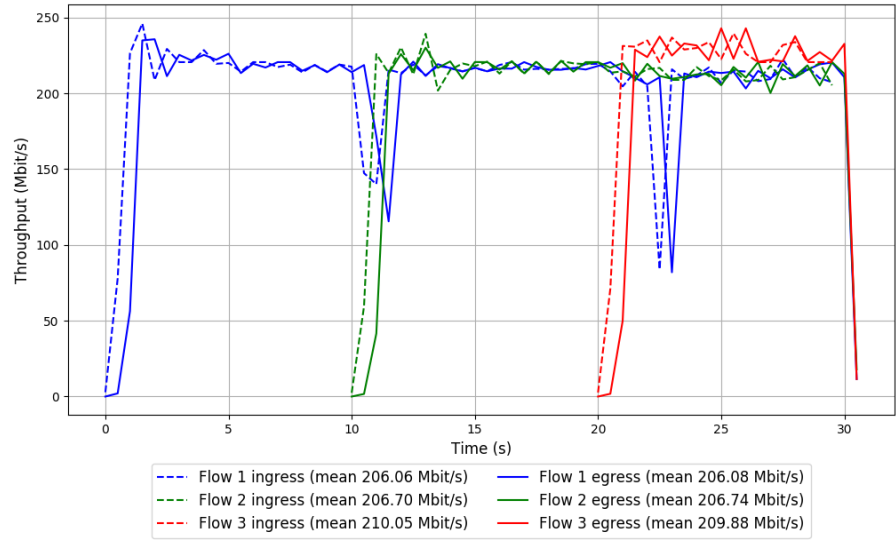


Run 3: Statistics of TCP BBR

Start at: 2018-05-26 03:27:02
End at: 2018-05-26 03:27:32
Local clock offset: -0.414 ms
Remote clock offset: -0.035 ms

Below is generated by plot.py at 2018-05-26 06:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 413.45 Mbit/s
95th percentile per-packet one-way delay: 62.897 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 206.08 Mbit/s
95th percentile per-packet one-way delay: 62.167 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 206.74 Mbit/s
95th percentile per-packet one-way delay: 62.872 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 209.88 Mbit/s
95th percentile per-packet one-way delay: 63.903 ms
Loss rate: 0.00%

Run 3: Report of TCP BBR — Data Link

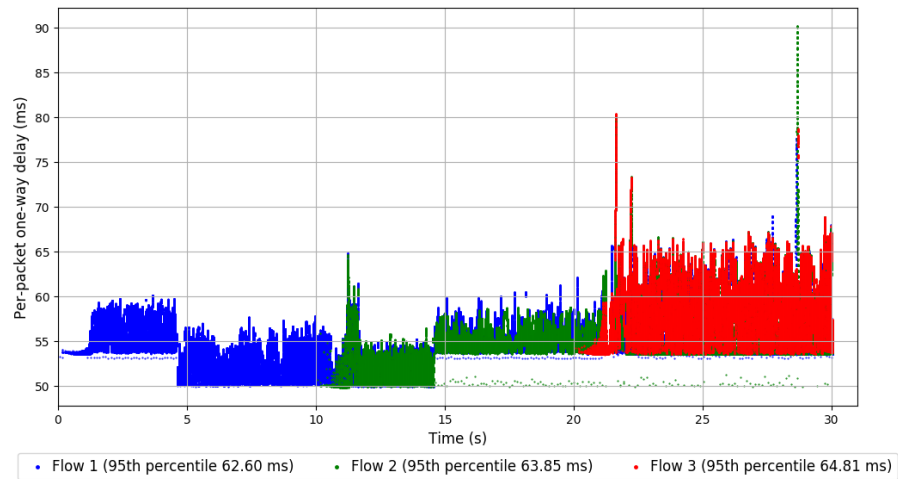
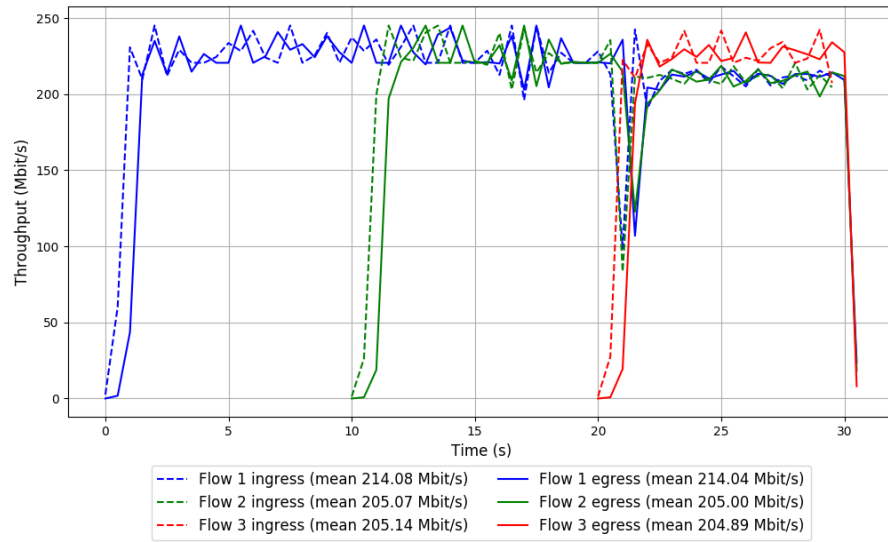


Run 4: Statistics of TCP BBR

Start at: 2018-05-26 03:50:22
End at: 2018-05-26 03:50:52
Local clock offset: -0.397 ms
Remote clock offset: -0.188 ms

Below is generated by plot.py at 2018-05-26 06:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 418.70 Mbit/s
95th percentile per-packet one-way delay: 63.733 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 214.04 Mbit/s
95th percentile per-packet one-way delay: 62.601 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 205.00 Mbit/s
95th percentile per-packet one-way delay: 63.846 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 204.89 Mbit/s
95th percentile per-packet one-way delay: 64.815 ms
Loss rate: 0.12%

Run 4: Report of TCP BBR — Data Link

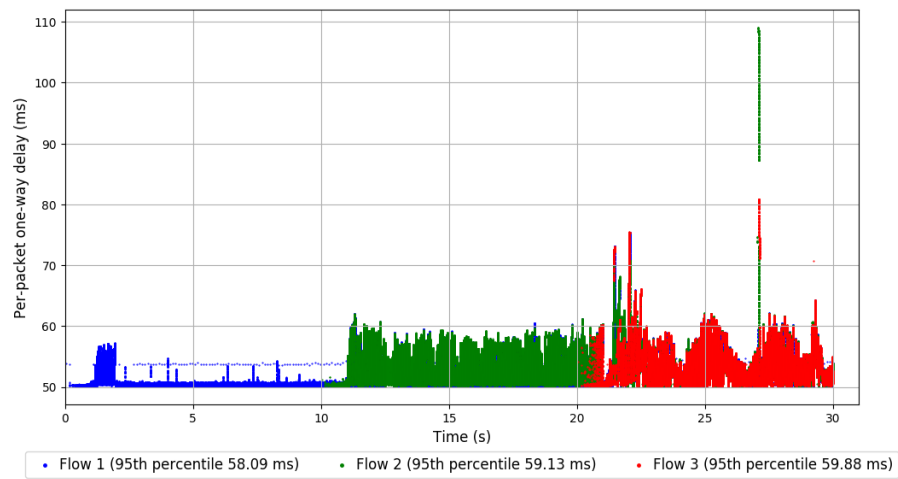
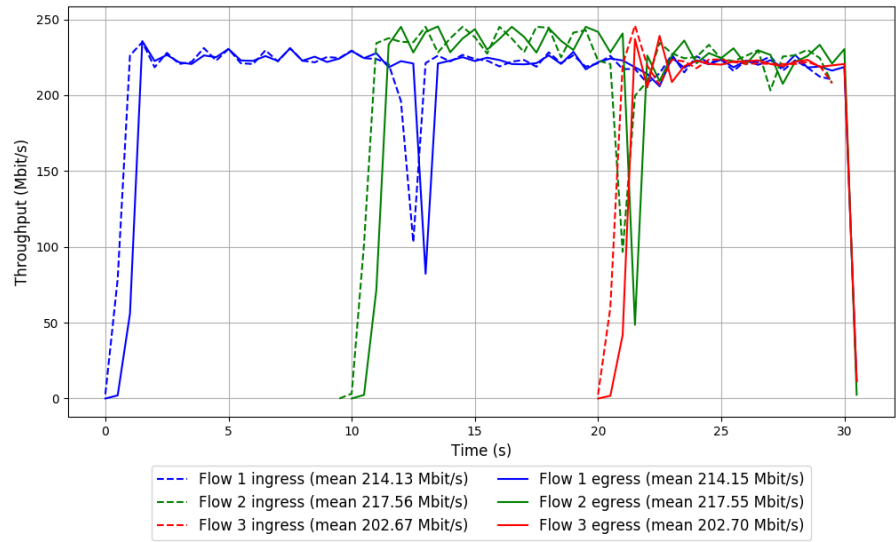


Run 5: Statistics of TCP BBR

Start at: 2018-05-26 04:13:07
End at: 2018-05-26 04:13:37
Local clock offset: -0.426 ms
Remote clock offset: -0.179 ms

Below is generated by plot.py at 2018-05-26 06:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 426.55 Mbit/s
95th percentile per-packet one-way delay: 58.746 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.15 Mbit/s
95th percentile per-packet one-way delay: 58.085 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 217.55 Mbit/s
95th percentile per-packet one-way delay: 59.126 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 202.70 Mbit/s
95th percentile per-packet one-way delay: 59.884 ms
Loss rate: 0.01%

Run 5: Report of TCP BBR — Data Link

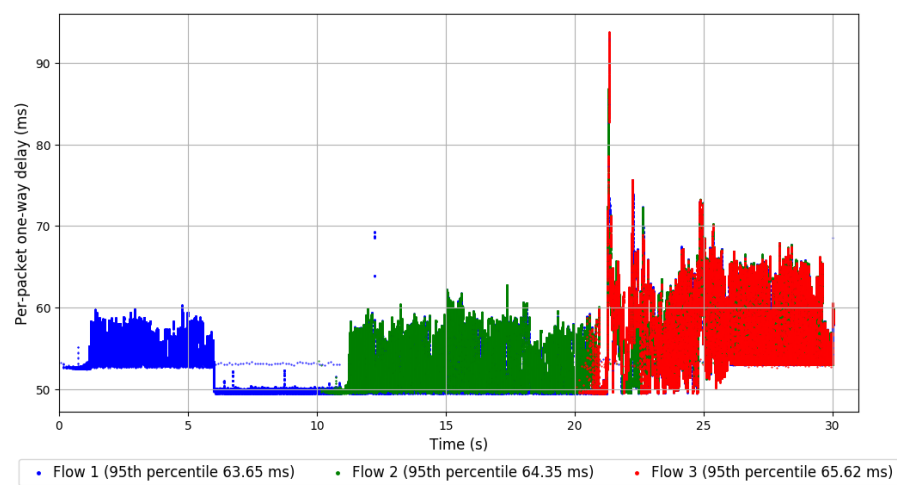
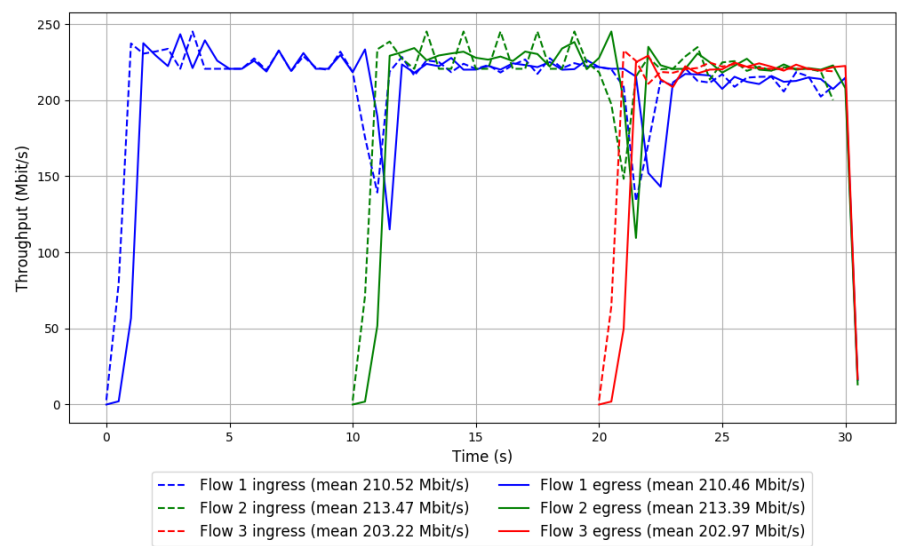


Run 6: Statistics of TCP BBR

Start at: 2018-05-26 04:35:50
End at: 2018-05-26 04:36:20
Local clock offset: 0.379 ms
Remote clock offset: -0.173 ms

Below is generated by plot.py at 2018-05-26 06:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 420.05 Mbit/s
95th percentile per-packet one-way delay: 64.367 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 210.46 Mbit/s
95th percentile per-packet one-way delay: 63.652 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 213.39 Mbit/s
95th percentile per-packet one-way delay: 64.349 ms
Loss rate: 0.04%
-- Flow 3:
Average throughput: 202.97 Mbit/s
95th percentile per-packet one-way delay: 65.625 ms
Loss rate: 0.08%

Run 6: Report of TCP BBR — Data Link



Run 7: Statistics of TCP BBR

Start at: 2018-05-26 04:58:50

End at: 2018-05-26 04:59:20

Local clock offset: 0.598 ms

Remote clock offset: 0.278 ms

Below is generated by plot.py at 2018-05-26 06:54:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 426.17 Mbit/s

95th percentile per-packet one-way delay: 62.414 ms

Loss rate: 0.05%

-- Flow 1:

Average throughput: 219.23 Mbit/s

95th percentile per-packet one-way delay: 59.877 ms

Loss rate: 0.02%

-- Flow 2:

Average throughput: 210.66 Mbit/s

95th percentile per-packet one-way delay: 62.626 ms

Loss rate: 0.07%

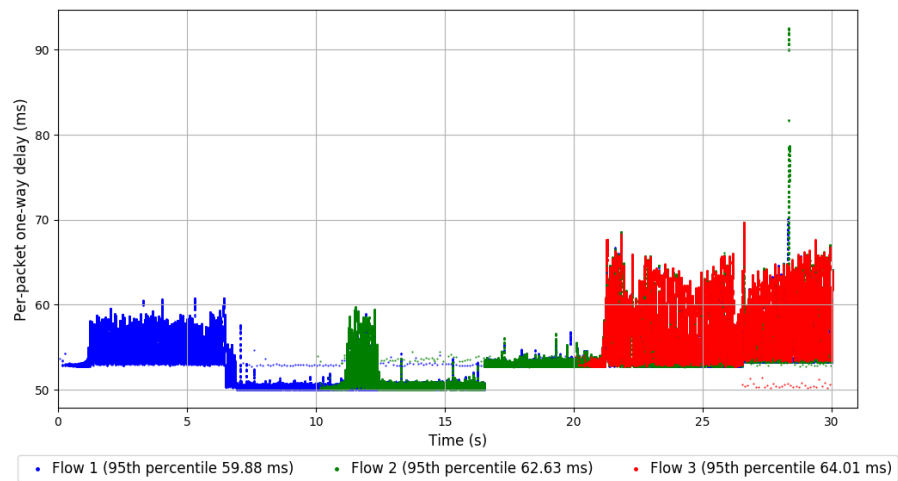
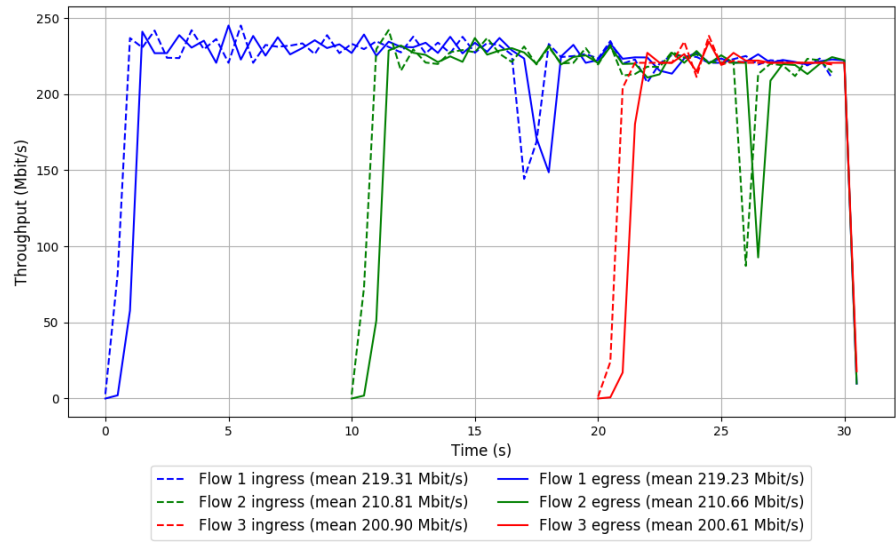
-- Flow 3:

Average throughput: 200.61 Mbit/s

95th percentile per-packet one-way delay: 64.006 ms

Loss rate: 0.14%

Run 7: Report of TCP BBR — Data Link

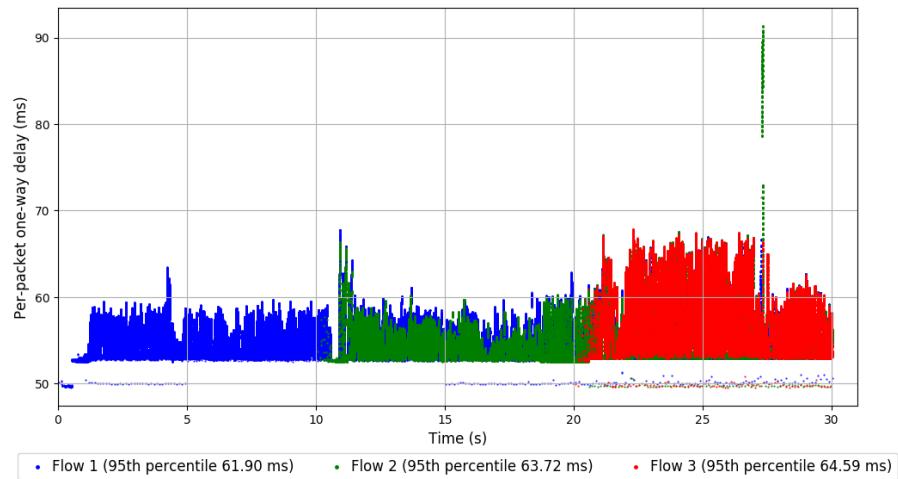
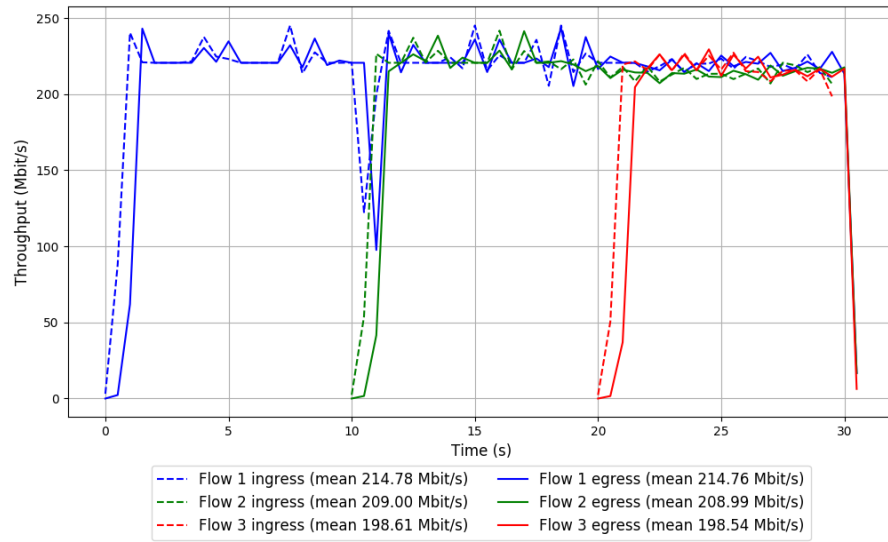


Run 8: Statistics of TCP BBR

Start at: 2018-05-26 05:21:56
End at: 2018-05-26 05:22:26
Local clock offset: 0.308 ms
Remote clock offset: -0.263 ms

Below is generated by plot.py at 2018-05-26 06:54:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 419.87 Mbit/s
95th percentile per-packet one-way delay: 63.499 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 214.76 Mbit/s
95th percentile per-packet one-way delay: 61.896 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 208.99 Mbit/s
95th percentile per-packet one-way delay: 63.720 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 198.54 Mbit/s
95th percentile per-packet one-way delay: 64.591 ms
Loss rate: 0.00%

Run 8: Report of TCP BBR — Data Link

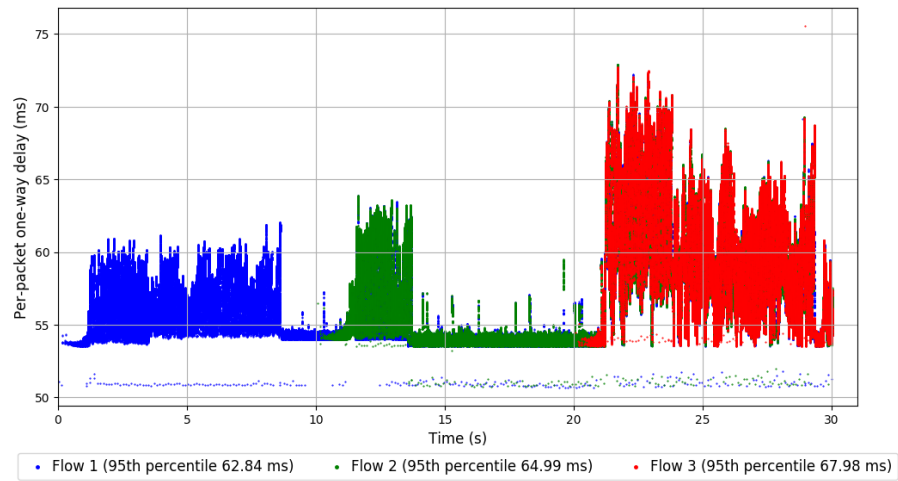
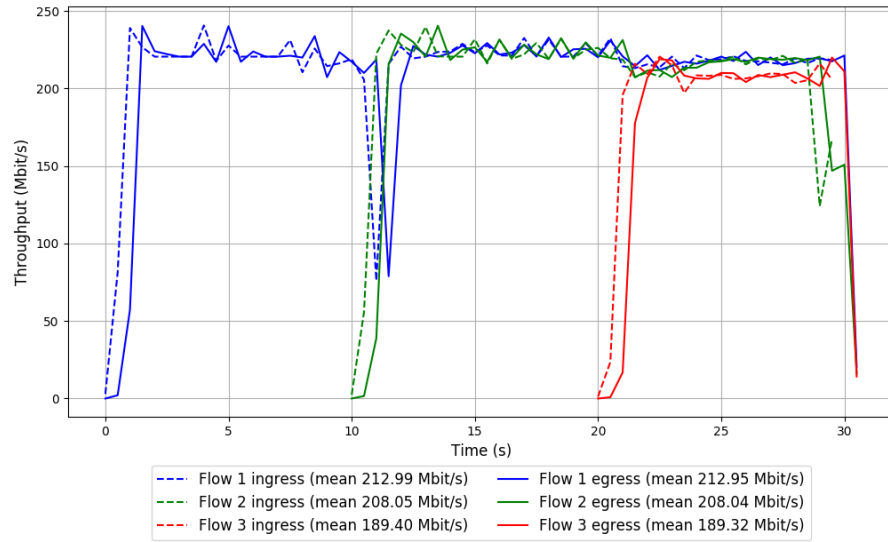


Run 9: Statistics of TCP BBR

Start at: 2018-05-26 05:44:53
End at: 2018-05-26 05:45:23
Local clock offset: -0.447 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-05-26 07:00:34
Datalink statistics
-- Total of 3 flows:
Average throughput: 414.40 Mbit/s
95th percentile per-packet one-way delay: 65.387 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 212.95 Mbit/s
95th percentile per-packet one-way delay: 62.835 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 208.04 Mbit/s
95th percentile per-packet one-way delay: 64.990 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 189.32 Mbit/s
95th percentile per-packet one-way delay: 67.985 ms
Loss rate: 0.03%

Run 9: Report of TCP BBR — Data Link

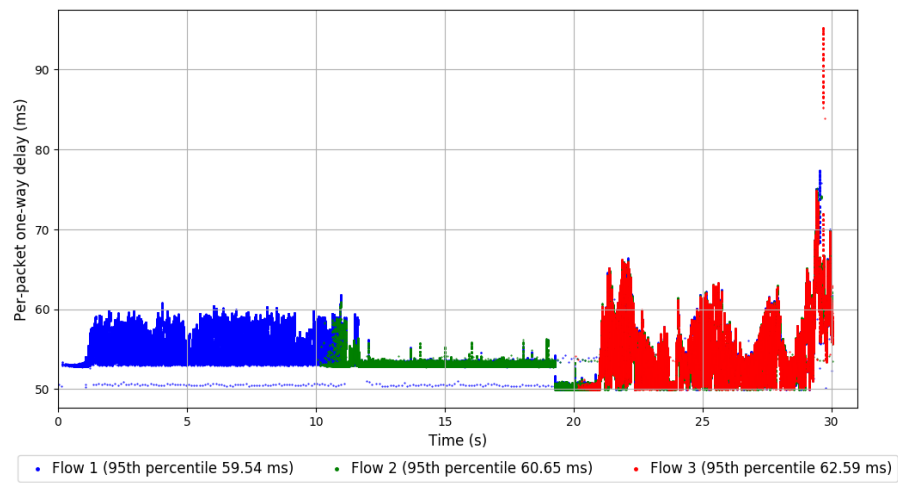
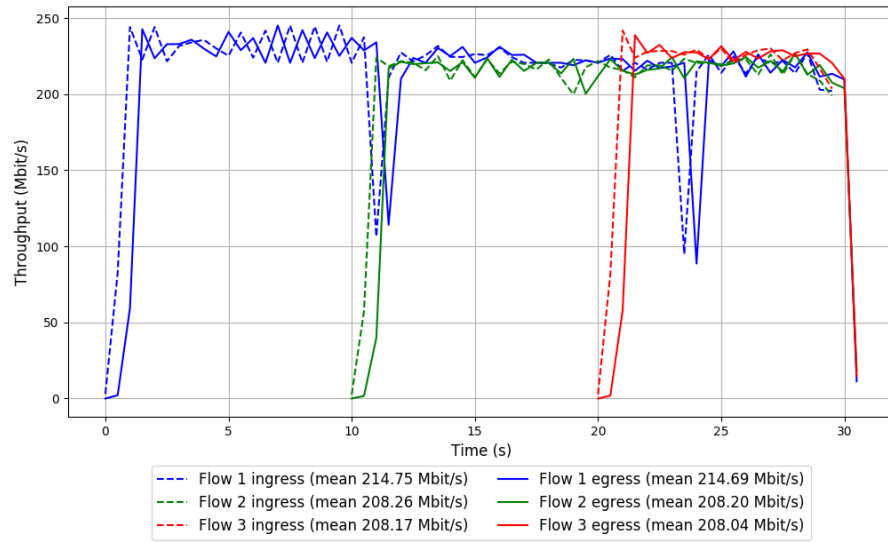


Run 10: Statistics of TCP BBR

Start at: 2018-05-26 06:07:37
End at: 2018-05-26 06:08:07
Local clock offset: -0.116 ms
Remote clock offset: -0.194 ms

Below is generated by plot.py at 2018-05-26 07:01:11
Datalink statistics
-- Total of 3 flows:
Average throughput: 422.48 Mbit/s
95th percentile per-packet one-way delay: 60.533 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 214.69 Mbit/s
95th percentile per-packet one-way delay: 59.543 ms
Loss rate: 0.02%
-- Flow 2:
Average throughput: 208.20 Mbit/s
95th percentile per-packet one-way delay: 60.654 ms
Loss rate: 0.03%
-- Flow 3:
Average throughput: 208.04 Mbit/s
95th percentile per-packet one-way delay: 62.589 ms
Loss rate: 0.06%

Run 10: Report of TCP BBR — Data Link



Run 1: Statistics of Copa

Start at: 2018-05-26 03:02:19

End at: 2018-05-26 03:02:49

Local clock offset: -0.299 ms

Remote clock offset: 0.158 ms

Below is generated by plot.py at 2018-05-26 07:01:11

Datalink statistics

-- Total of 3 flows:

Average throughput: 163.23 Mbit/s

95th percentile per-packet one-way delay: 53.761 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 65.10 Mbit/s

95th percentile per-packet one-way delay: 53.446 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 120.60 Mbit/s

95th percentile per-packet one-way delay: 53.754 ms

Loss rate: 0.00%

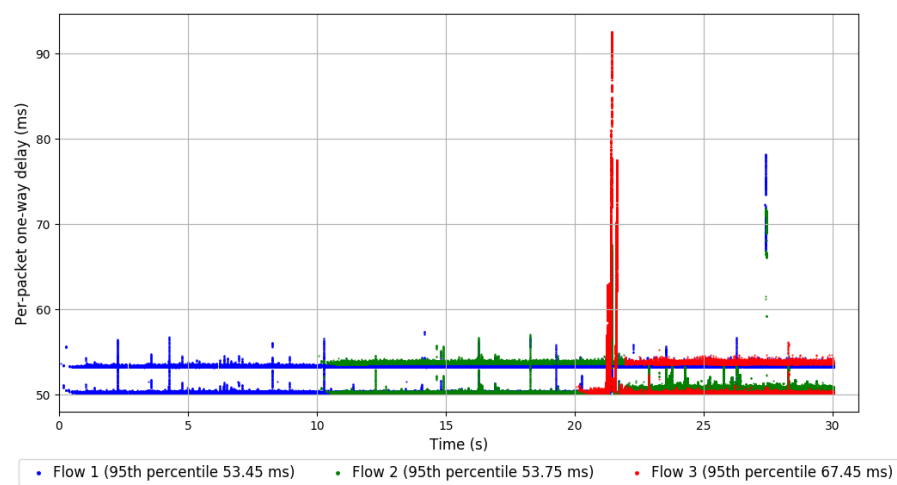
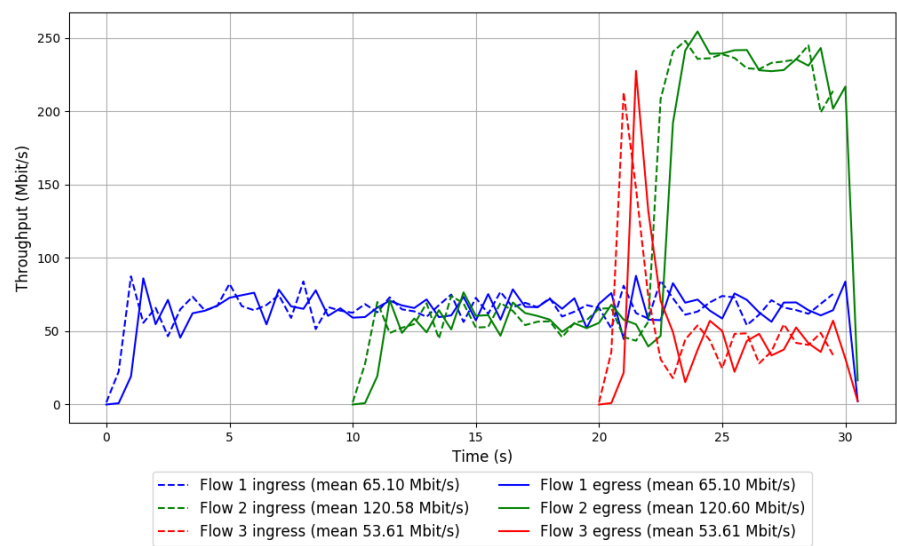
-- Flow 3:

Average throughput: 53.61 Mbit/s

95th percentile per-packet one-way delay: 67.453 ms

Loss rate: 0.00%

Run 1: Report of Copa — Data Link

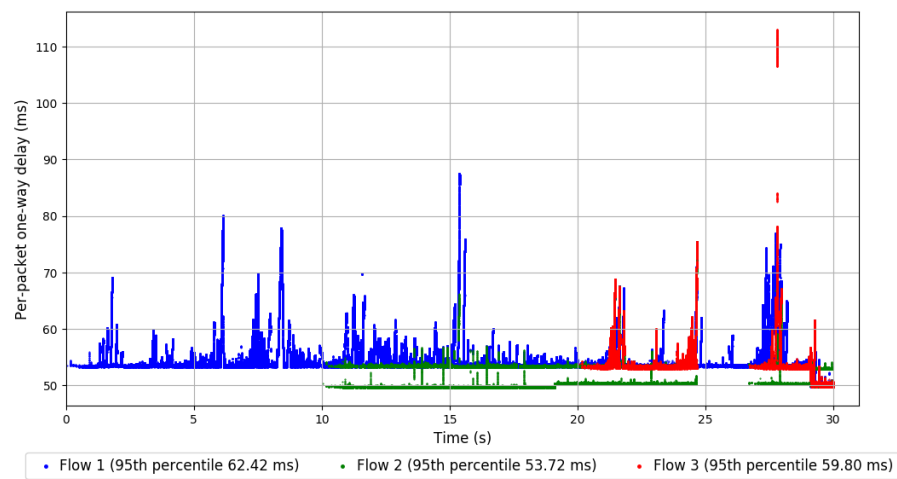
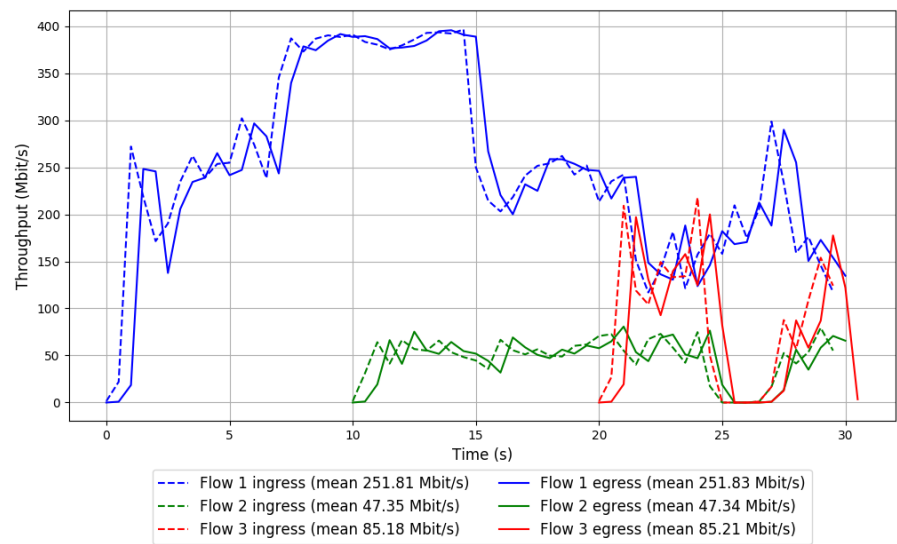


Run 2: Statistics of Copa

Start at: 2018-05-26 03:25:27
End at: 2018-05-26 03:25:57
Local clock offset: -0.331 ms
Remote clock offset: -0.201 ms

Below is generated by plot.py at 2018-05-26 07:03:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.49 Mbit/s
95th percentile per-packet one-way delay: 61.585 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 251.83 Mbit/s
95th percentile per-packet one-way delay: 62.417 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 47.34 Mbit/s
95th percentile per-packet one-way delay: 53.717 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 85.21 Mbit/s
95th percentile per-packet one-way delay: 59.797 ms
Loss rate: 0.00%

Run 2: Report of Copa — Data Link

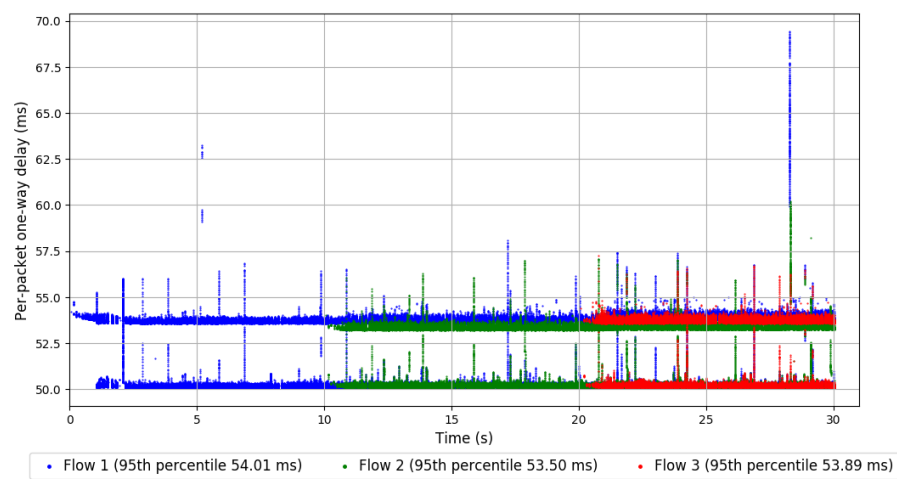
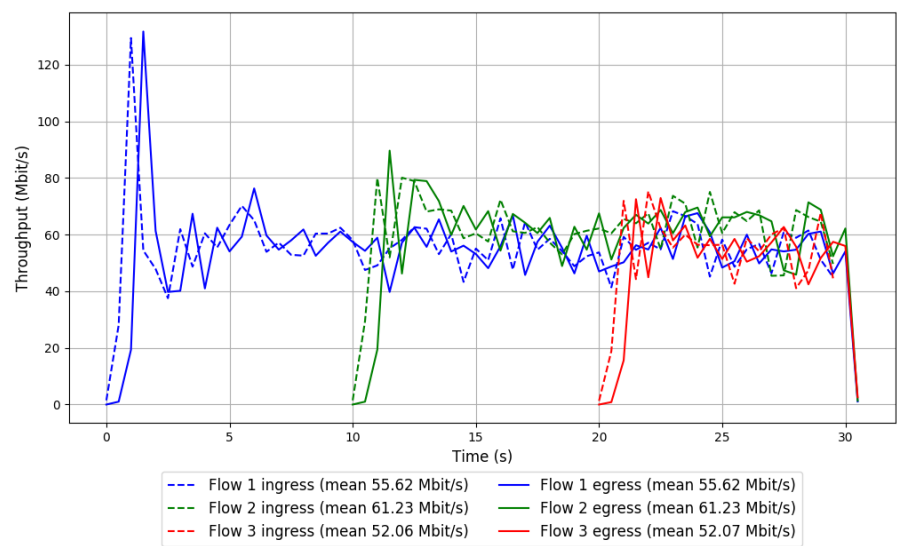


Run 3: Statistics of Copa

Start at: 2018-05-26 03:49:05
End at: 2018-05-26 03:49:35
Local clock offset: -0.555 ms
Remote clock offset: -0.074 ms

Below is generated by plot.py at 2018-05-26 07:03:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 113.66 Mbit/s
95th percentile per-packet one-way delay: 53.938 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 55.62 Mbit/s
95th percentile per-packet one-way delay: 54.010 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 61.23 Mbit/s
95th percentile per-packet one-way delay: 53.502 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 52.07 Mbit/s
95th percentile per-packet one-way delay: 53.894 ms
Loss rate: 0.00%

Run 3: Report of Copa — Data Link

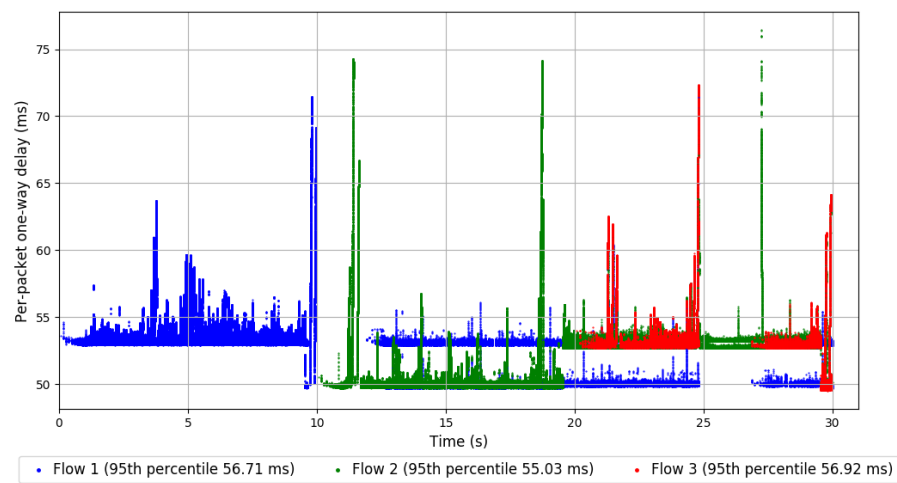
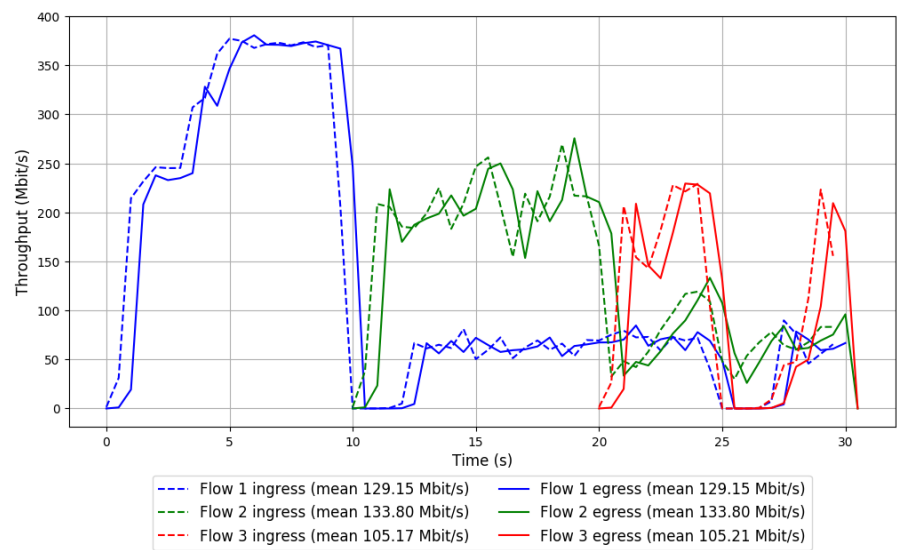


Run 4: Statistics of Copa

Start at: 2018-05-26 04:11:37
End at: 2018-05-26 04:12:07
Local clock offset: 0.116 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-05-26 07:03:36
Datalink statistics
-- Total of 3 flows:
Average throughput: 253.08 Mbit/s
95th percentile per-packet one-way delay: 56.294 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 129.15 Mbit/s
95th percentile per-packet one-way delay: 56.708 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 133.80 Mbit/s
95th percentile per-packet one-way delay: 55.027 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 105.21 Mbit/s
95th percentile per-packet one-way delay: 56.922 ms
Loss rate: 0.00%

Run 4: Report of Copa — Data Link



Run 5: Statistics of Copa

Start at: 2018-05-26 04:34:27

End at: 2018-05-26 04:34:57

Local clock offset: 0.144 ms

Remote clock offset: 0.258 ms

Below is generated by plot.py at 2018-05-26 07:03:36

Datalink statistics

-- Total of 3 flows:

Average throughput: 181.24 Mbit/s

95th percentile per-packet one-way delay: 58.518 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 93.69 Mbit/s

95th percentile per-packet one-way delay: 56.413 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 81.89 Mbit/s

95th percentile per-packet one-way delay: 56.165 ms

Loss rate: 0.00%

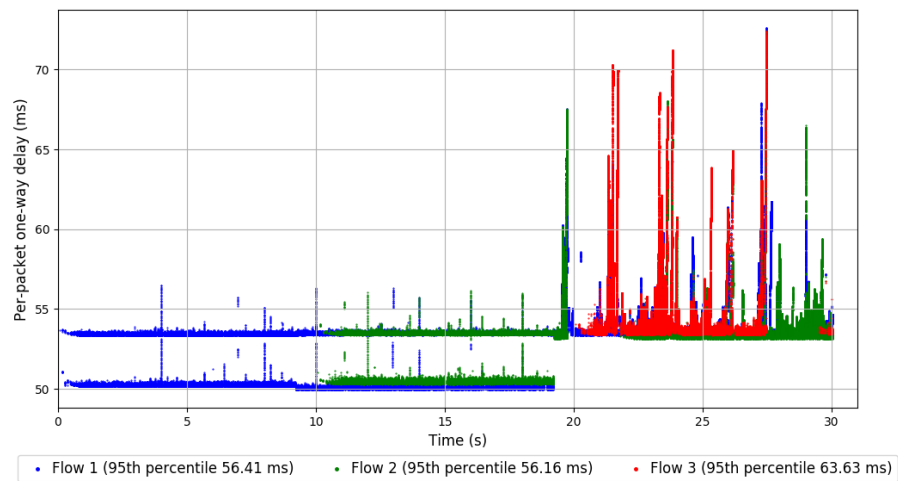
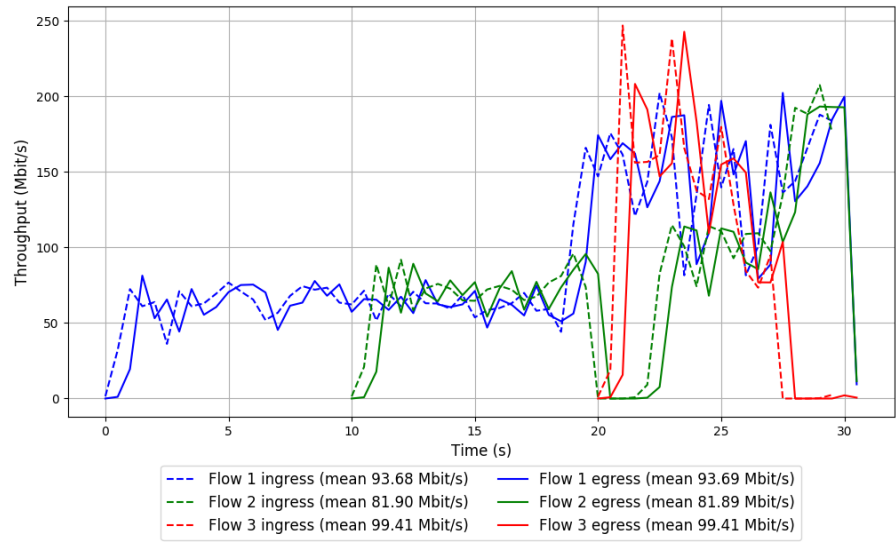
-- Flow 3:

Average throughput: 99.41 Mbit/s

95th percentile per-packet one-way delay: 63.632 ms

Loss rate: 0.00%

Run 5: Report of Copa — Data Link



Run 6: Statistics of Copa

Start at: 2018-05-26 04:57:24

End at: 2018-05-26 04:57:54

Local clock offset: 0.205 ms

Remote clock offset: 0.071 ms

Below is generated by plot.py at 2018-05-26 07:03:37

Datalink statistics

-- Total of 3 flows:

Average throughput: 204.51 Mbit/s

95th percentile per-packet one-way delay: 55.273 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 132.86 Mbit/s

95th percentile per-packet one-way delay: 55.374 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.56 Mbit/s

95th percentile per-packet one-way delay: 55.341 ms

Loss rate: 0.00%

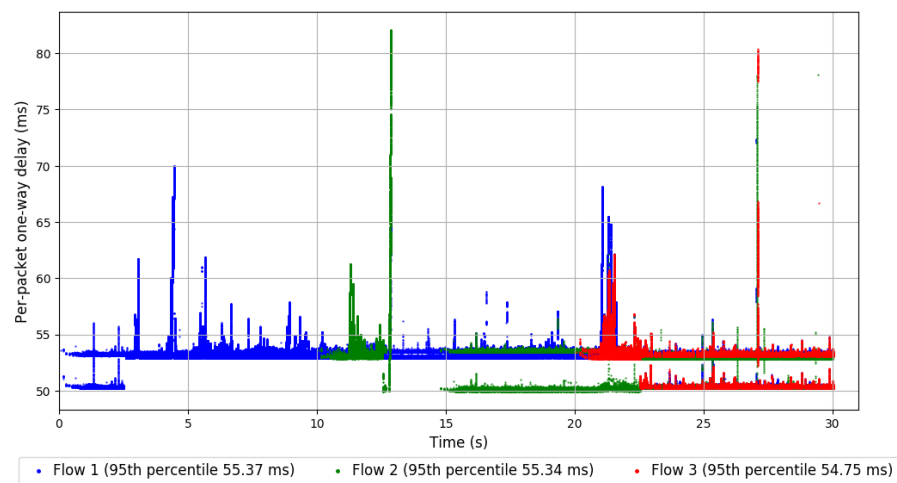
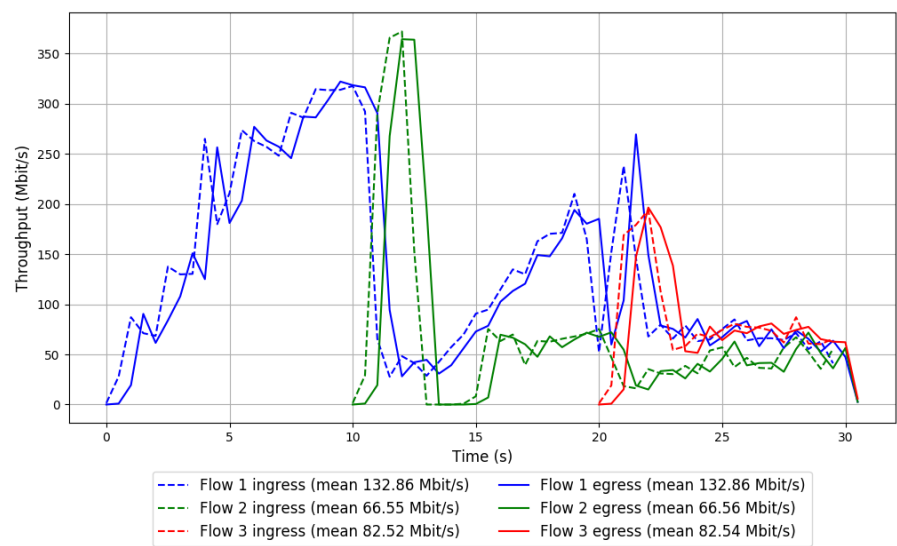
-- Flow 3:

Average throughput: 82.54 Mbit/s

95th percentile per-packet one-way delay: 54.753 ms

Loss rate: 0.01%

Run 6: Report of Copa — Data Link

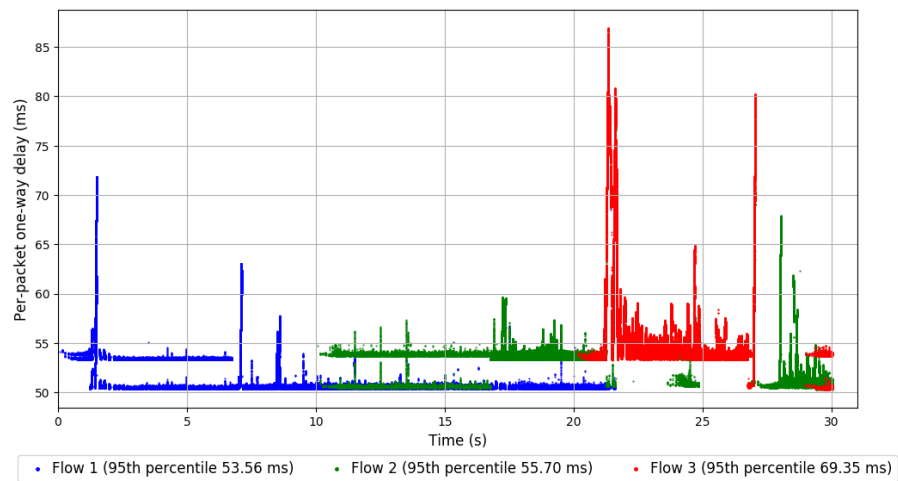
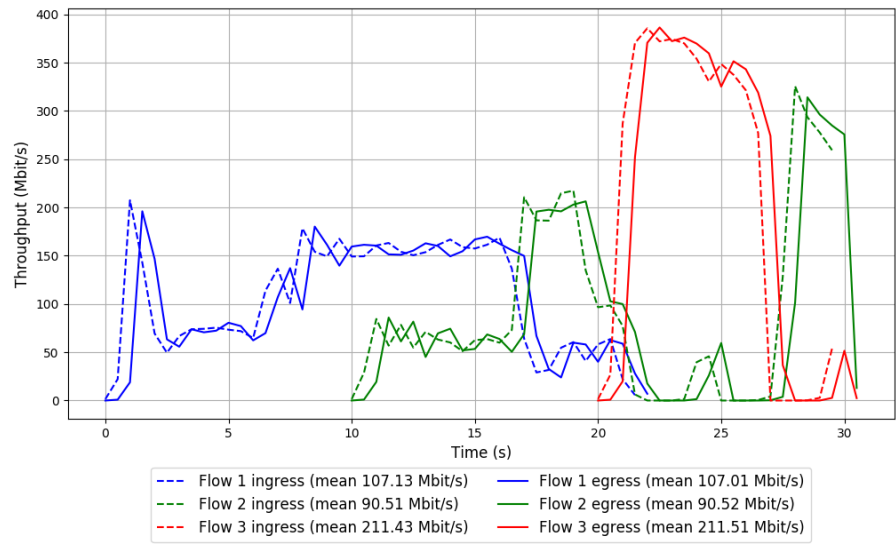


Run 7: Statistics of Copa

Start at: 2018-05-26 05:20:30
End at: 2018-05-26 05:21:00
Local clock offset: -0.179 ms
Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-26 07:04:04
Datalink statistics
-- Total of 3 flows:
Average throughput: 207.59 Mbit/s
95th percentile per-packet one-way delay: 58.216 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 107.01 Mbit/s
95th percentile per-packet one-way delay: 53.565 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 90.52 Mbit/s
95th percentile per-packet one-way delay: 55.697 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 211.51 Mbit/s
95th percentile per-packet one-way delay: 69.352 ms
Loss rate: 0.00%

Run 7: Report of Copa — Data Link



Run 8: Statistics of Copa

Start at: 2018-05-26 05:43:30

End at: 2018-05-26 05:44:00

Local clock offset: -0.022 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-26 07:04:35

Datalink statistics

-- Total of 3 flows:

Average throughput: 179.73 Mbit/s

95th percentile per-packet one-way delay: 55.344 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 106.46 Mbit/s

95th percentile per-packet one-way delay: 55.915 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 59.38 Mbit/s

95th percentile per-packet one-way delay: 53.472 ms

Loss rate: 0.00%

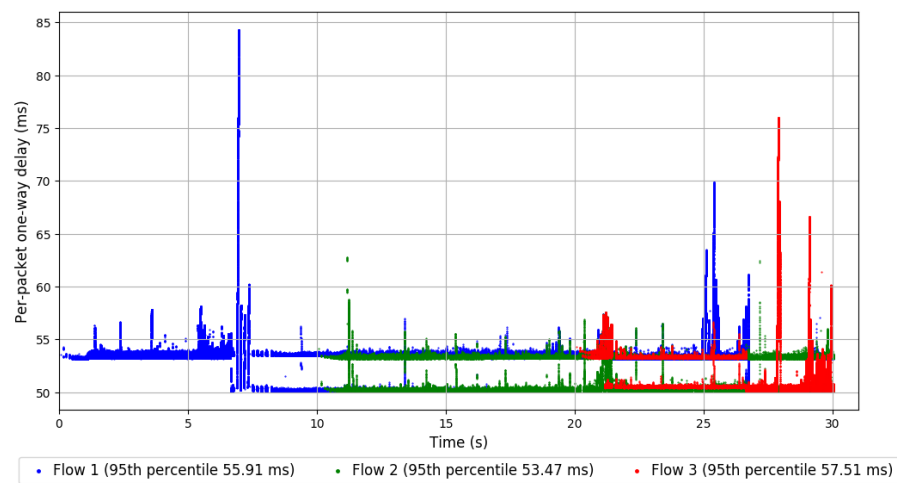
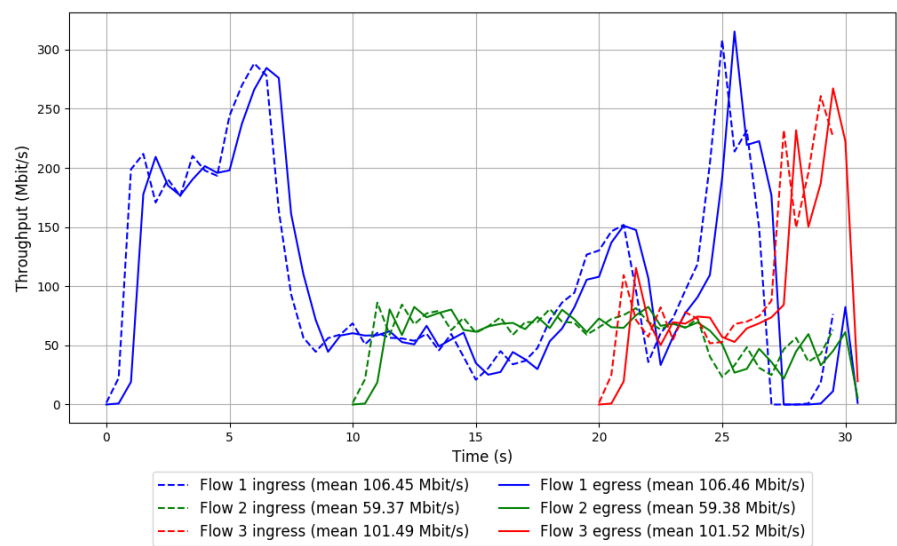
-- Flow 3:

Average throughput: 101.52 Mbit/s

95th percentile per-packet one-way delay: 57.514 ms

Loss rate: 0.00%

Run 8: Report of Copa — Data Link



Run 9: Statistics of Copa

Start at: 2018-05-26 06:06:00

End at: 2018-05-26 06:06:30

Local clock offset: -0.221 ms

Remote clock offset: 0.148 ms

Below is generated by plot.py at 2018-05-26 07:10:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 332.66 Mbit/s

95th percentile per-packet one-way delay: 55.876 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 203.53 Mbit/s

95th percentile per-packet one-way delay: 55.873 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 145.97 Mbit/s

95th percentile per-packet one-way delay: 56.824 ms

Loss rate: 0.00%

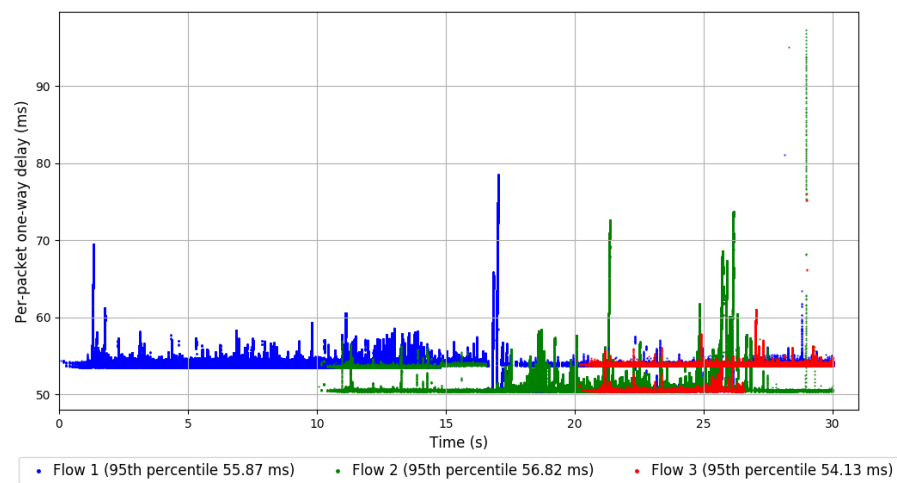
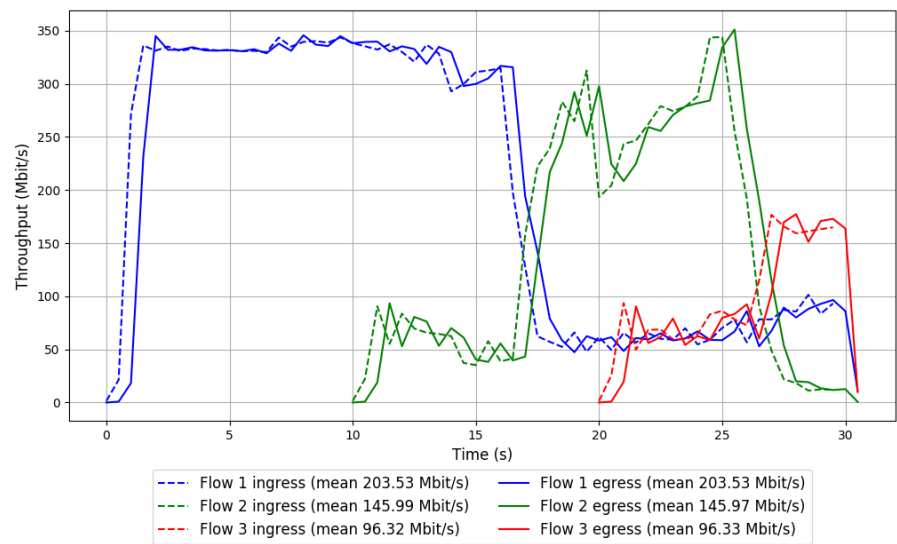
-- Flow 3:

Average throughput: 96.33 Mbit/s

95th percentile per-packet one-way delay: 54.131 ms

Loss rate: 0.00%

Run 9: Report of Copa — Data Link

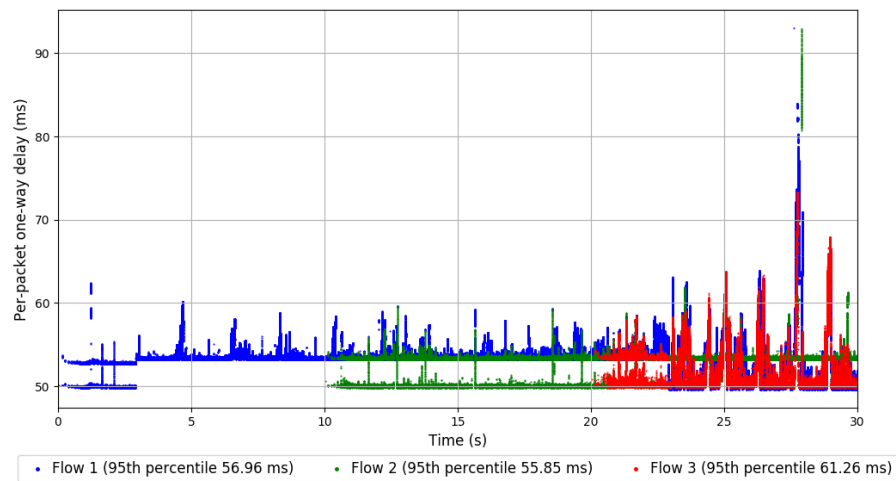
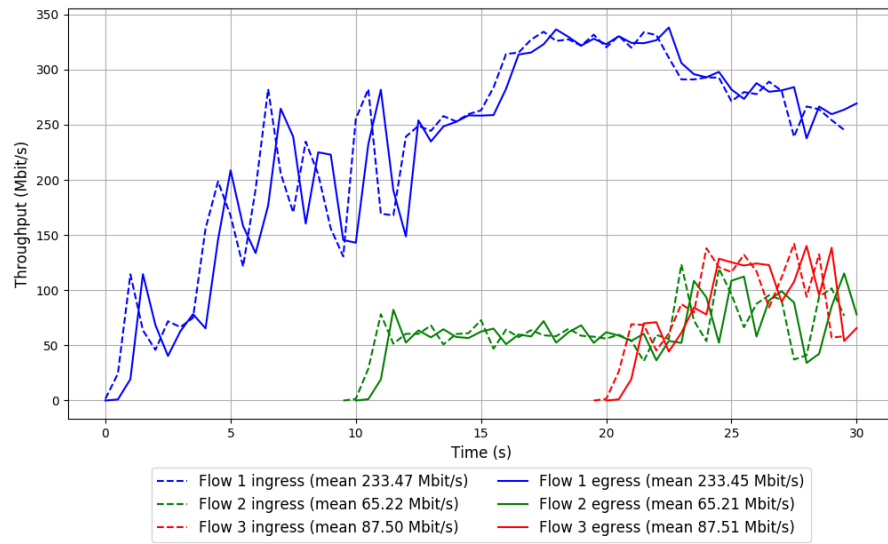


Run 10: Statistics of Copa

Start at: 2018-05-26 06:29:23
End at: 2018-05-26 06:29:54
Local clock offset: 0.217 ms
Remote clock offset: -0.075 ms

Below is generated by plot.py at 2018-05-26 07:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 306.02 Mbit/s
95th percentile per-packet one-way delay: 57.140 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 233.45 Mbit/s
95th percentile per-packet one-way delay: 56.957 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 65.21 Mbit/s
95th percentile per-packet one-way delay: 55.855 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 87.51 Mbit/s
95th percentile per-packet one-way delay: 61.258 ms
Loss rate: 0.00%

Run 10: Report of Copa — Data Link



Run 1: Statistics of TCP Cubic

Start at: 2018-05-26 02:53:20

End at: 2018-05-26 02:53:50

Local clock offset: -0.328 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-26 07:10:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 283.68 Mbit/s

95th percentile per-packet one-way delay: 56.516 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 131.26 Mbit/s

95th percentile per-packet one-way delay: 55.933 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 133.70 Mbit/s

95th percentile per-packet one-way delay: 56.457 ms

Loss rate: 0.00%

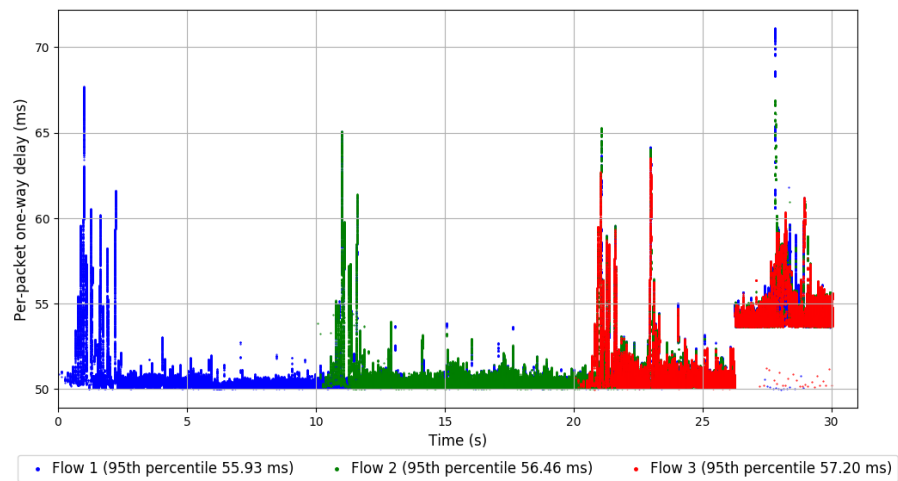
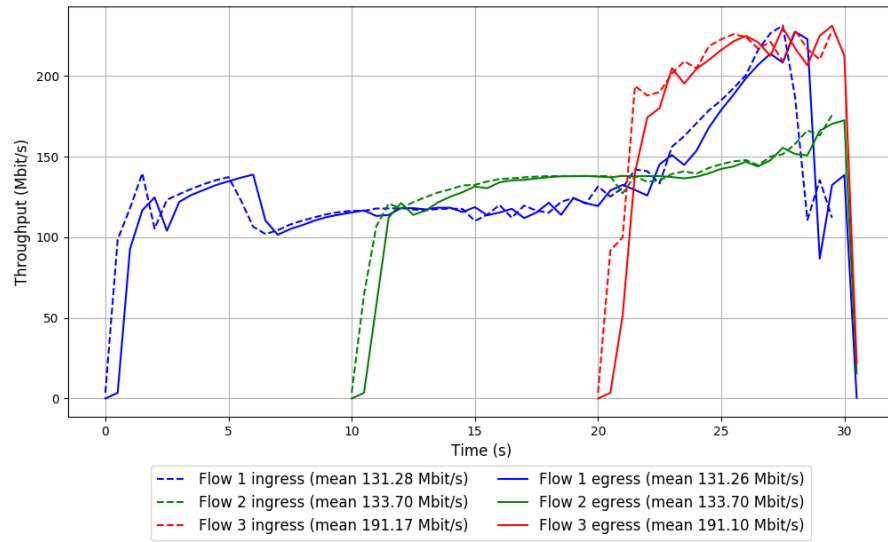
-- Flow 3:

Average throughput: 191.10 Mbit/s

95th percentile per-packet one-way delay: 57.197 ms

Loss rate: 0.00%

Run 1: Report of TCP Cubic — Data Link

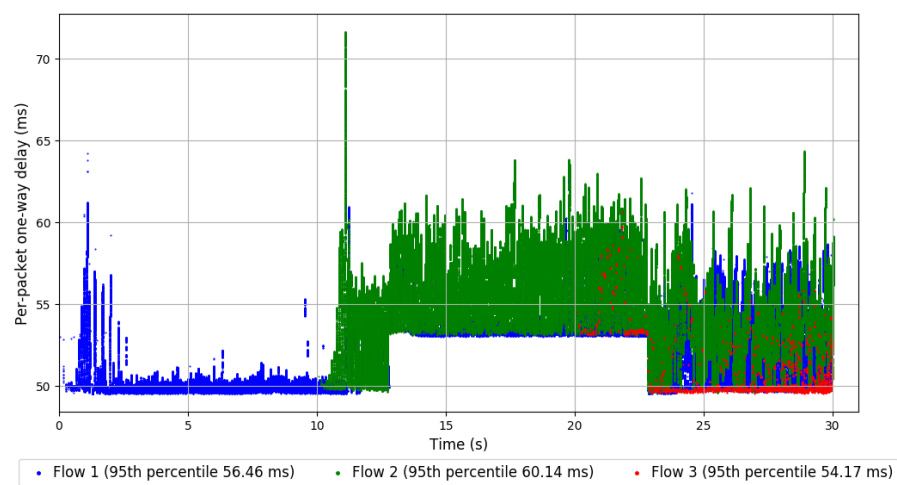
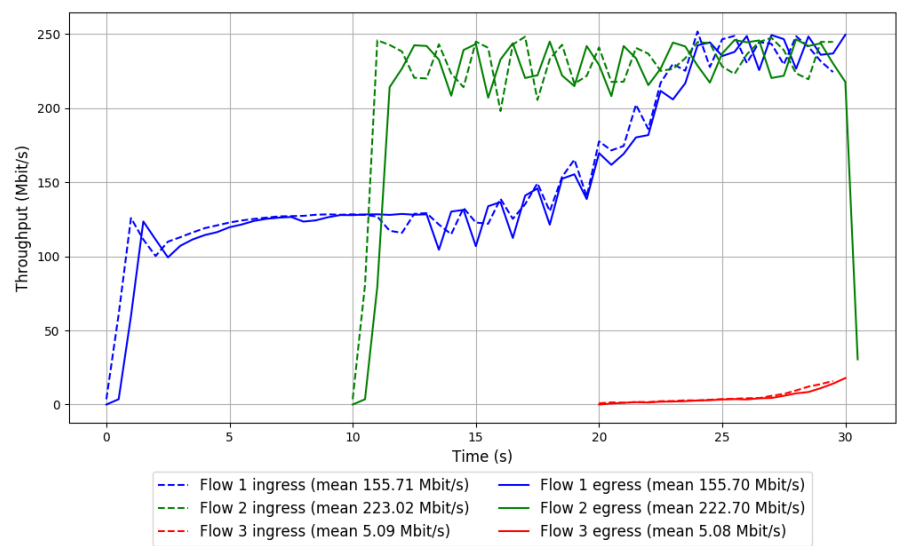


Run 2: Statistics of TCP Cubic

Start at: 2018-05-26 03:16:14
End at: 2018-05-26 03:16:44
Local clock offset: -0.142 ms
Remote clock offset: -0.245 ms

Below is generated by plot.py at 2018-05-26 07:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 305.56 Mbit/s
95th percentile per-packet one-way delay: 59.433 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 155.70 Mbit/s
95th percentile per-packet one-way delay: 56.464 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 222.70 Mbit/s
95th percentile per-packet one-way delay: 60.144 ms
Loss rate: 0.12%
-- Flow 3:
Average throughput: 5.08 Mbit/s
95th percentile per-packet one-way delay: 54.172 ms
Loss rate: 0.14%

Run 2: Report of TCP Cubic — Data Link

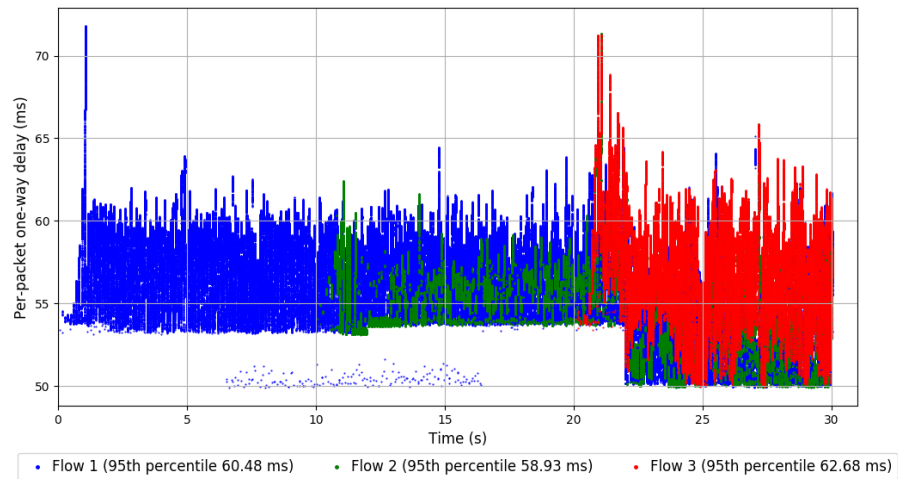
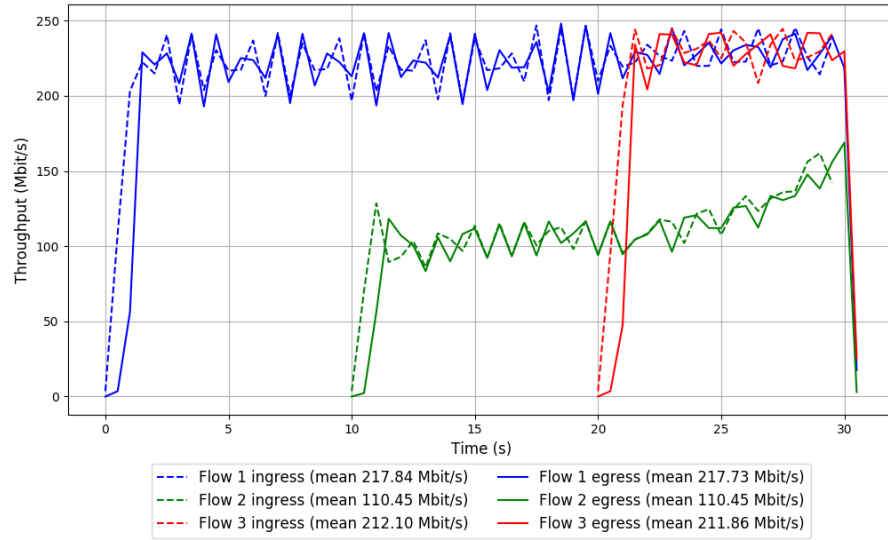


Run 3: Statistics of TCP Cubic

Start at: 2018-05-26 03:39:34
End at: 2018-05-26 03:40:04
Local clock offset: -0.349 ms
Remote clock offset: -0.076 ms

Below is generated by plot.py at 2018-05-26 07:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.62 Mbit/s
95th percentile per-packet one-way delay: 60.817 ms
Loss rate: 0.06%
-- Flow 1:
Average throughput: 217.73 Mbit/s
95th percentile per-packet one-way delay: 60.482 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 110.45 Mbit/s
95th percentile per-packet one-way delay: 58.933 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 211.86 Mbit/s
95th percentile per-packet one-way delay: 62.680 ms
Loss rate: 0.15%

Run 3: Report of TCP Cubic — Data Link

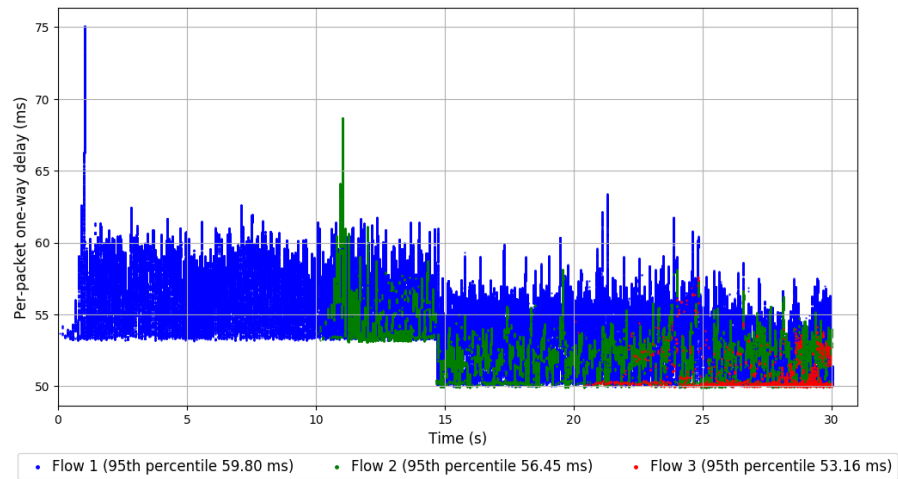
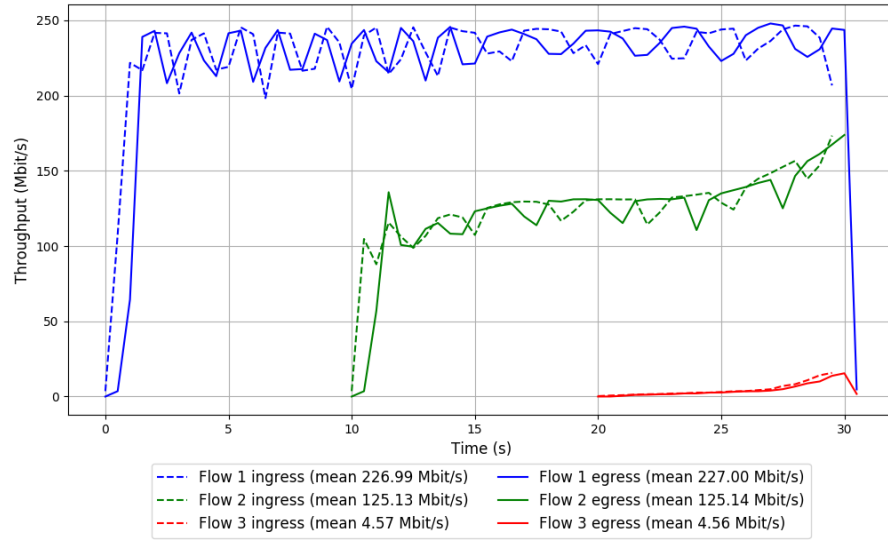


Run 4: Statistics of TCP Cubic

Start at: 2018-05-26 04:02:42
End at: 2018-05-26 04:03:12
Local clock offset: -0.366 ms
Remote clock offset: -0.083 ms

Below is generated by plot.py at 2018-05-26 07:10:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 311.70 Mbit/s
95th percentile per-packet one-way delay: 59.533 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 227.00 Mbit/s
95th percentile per-packet one-way delay: 59.801 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 125.14 Mbit/s
95th percentile per-packet one-way delay: 56.449 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 4.56 Mbit/s
95th percentile per-packet one-way delay: 53.160 ms
Loss rate: 0.26%

Run 4: Report of TCP Cubic — Data Link



Run 5: Statistics of TCP Cubic

Start at: 2018-05-26 04:25:34

End at: 2018-05-26 04:26:04

Local clock offset: 0.024 ms

Remote clock offset: 0.076 ms

Below is generated by plot.py at 2018-05-26 07:10:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 281.35 Mbit/s

95th percentile per-packet one-way delay: 57.224 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 175.65 Mbit/s

95th percentile per-packet one-way delay: 55.966 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 103.08 Mbit/s

95th percentile per-packet one-way delay: 57.265 ms

Loss rate: 0.00%

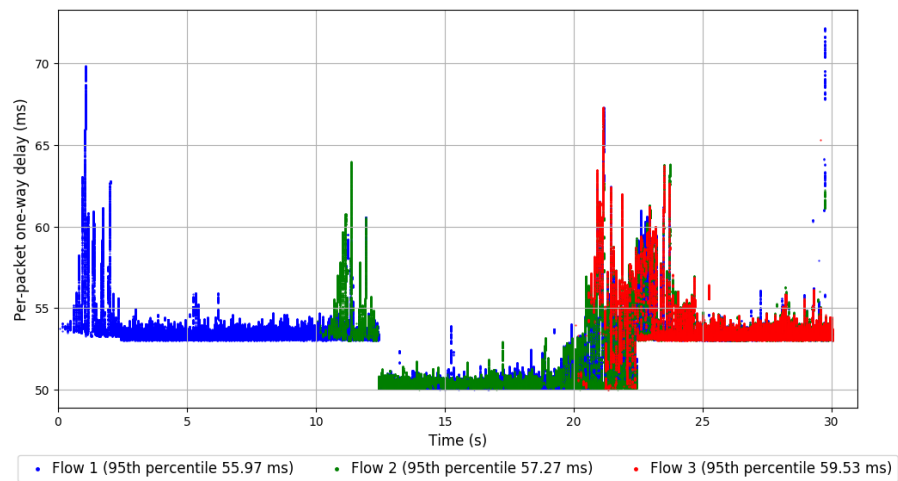
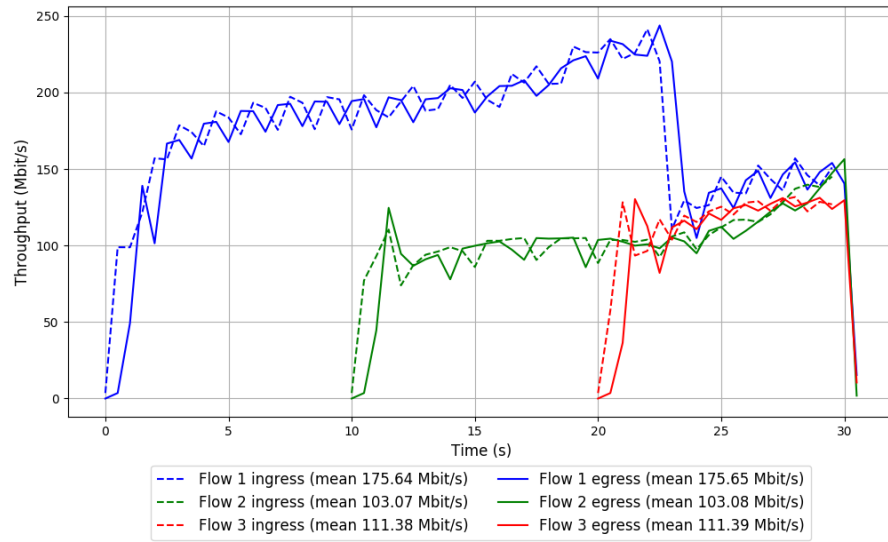
-- Flow 3:

Average throughput: 111.39 Mbit/s

95th percentile per-packet one-way delay: 59.532 ms

Loss rate: 0.00%

Run 5: Report of TCP Cubic — Data Link



Run 6: Statistics of TCP Cubic

Start at: 2018-05-26 04:48:17

End at: 2018-05-26 04:48:47

Local clock offset: 0.098 ms

Remote clock offset: 0.252 ms

Below is generated by plot.py at 2018-05-26 07:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 373.54 Mbit/s

95th percentile per-packet one-way delay: 62.046 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 224.57 Mbit/s

95th percentile per-packet one-way delay: 62.669 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 221.80 Mbit/s

95th percentile per-packet one-way delay: 60.152 ms

Loss rate: 0.00%

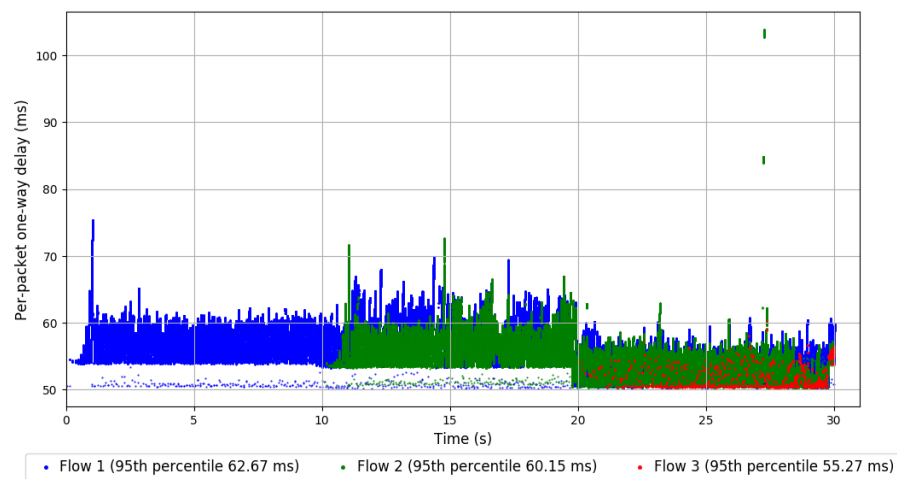
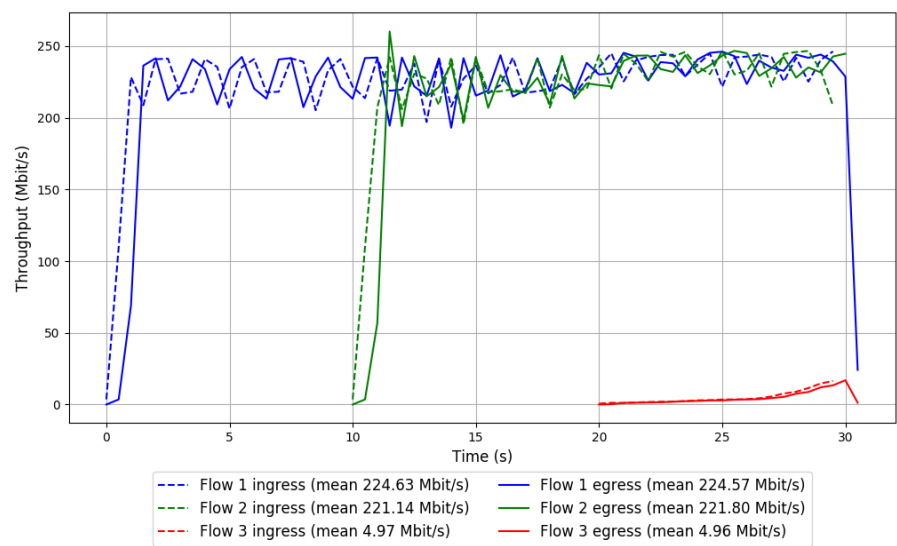
-- Flow 3:

Average throughput: 4.96 Mbit/s

95th percentile per-packet one-way delay: 55.268 ms

Loss rate: 0.19%

Run 6: Report of TCP Cubic — Data Link



Run 7: Statistics of TCP Cubic

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

End at: 2018-05-26 05:11:58

Local clock offset: 0.375 ms

Remote clock offset: 0.311 ms

Below is generated by plot.py at 2018-05-26 07:11:25

Datalink statistics

-- Total of 3 flows:

Average throughput: 267.97 Mbit/s

95th percentile per-packet one-way delay: 59.581 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 173.35 Mbit/s

95th percentile per-packet one-way delay: 59.303 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 56.16 Mbit/s

95th percentile per-packet one-way delay: 59.847 ms

Loss rate: 0.01%

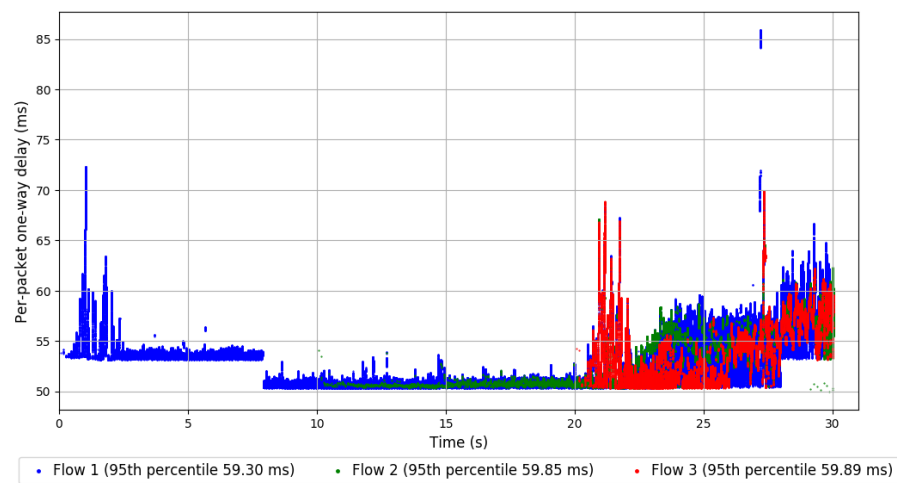
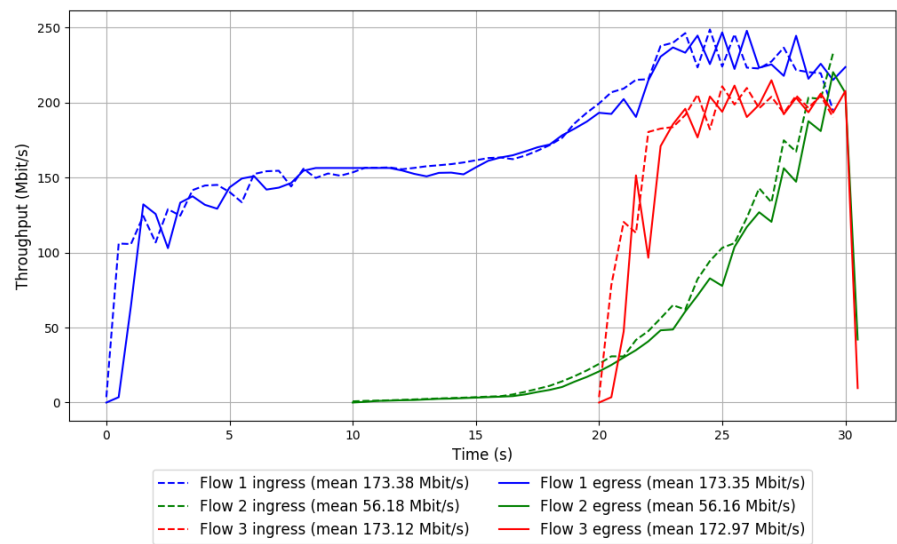
-- Flow 3:

Average throughput: 172.97 Mbit/s

95th percentile per-packet one-way delay: 59.890 ms

Loss rate: 0.09%

Run 7: Report of TCP Cubic — Data Link



Run 8: Statistics of TCP Cubic

Start at: 2018-05-26 05:34:24

End at: 2018-05-26 05:34:54

Local clock offset: 0.407 ms

Remote clock offset: 0.28 ms

Below is generated by plot.py at 2018-05-26 07:12:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 370.70 Mbit/s

95th percentile per-packet one-way delay: 62.394 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 192.13 Mbit/s

95th percentile per-packet one-way delay: 60.021 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 213.04 Mbit/s

95th percentile per-packet one-way delay: 64.096 ms

Loss rate: 0.00%

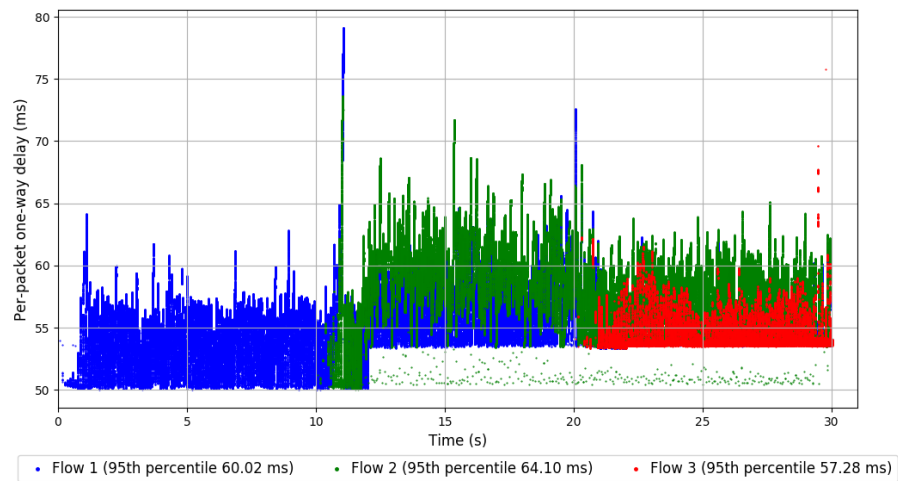
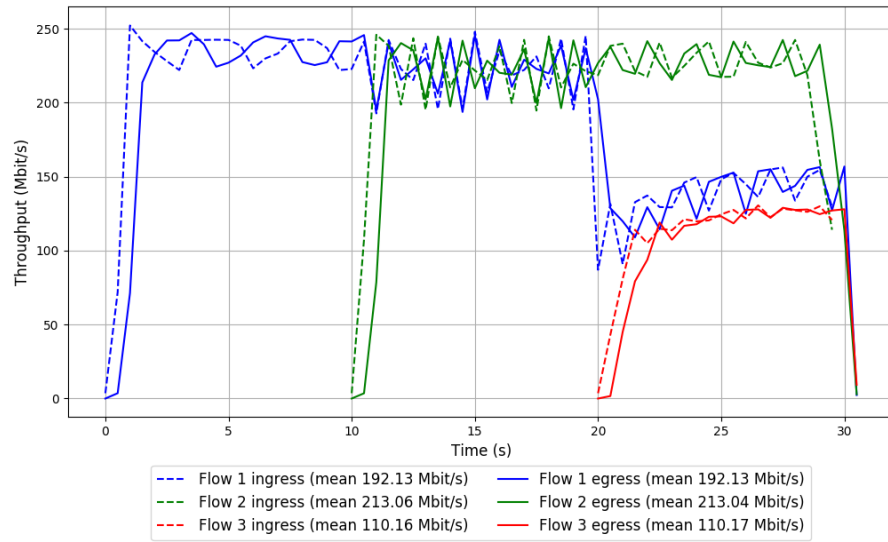
-- Flow 3:

Average throughput: 110.17 Mbit/s

95th percentile per-packet one-way delay: 57.281 ms

Loss rate: 0.00%

Run 8: Report of TCP Cubic — Data Link



Run 9: Statistics of TCP Cubic

Start at: 2018-05-26 05:57:11

End at: 2018-05-26 05:57:41

Local clock offset: 0.417 ms

Remote clock offset: 0.054 ms

Below is generated by plot.py at 2018-05-26 07:13:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 342.32 Mbit/s

95th percentile per-packet one-way delay: 60.245 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 201.57 Mbit/s

95th percentile per-packet one-way delay: 60.398 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 120.35 Mbit/s

95th percentile per-packet one-way delay: 59.876 ms

Loss rate: 0.01%

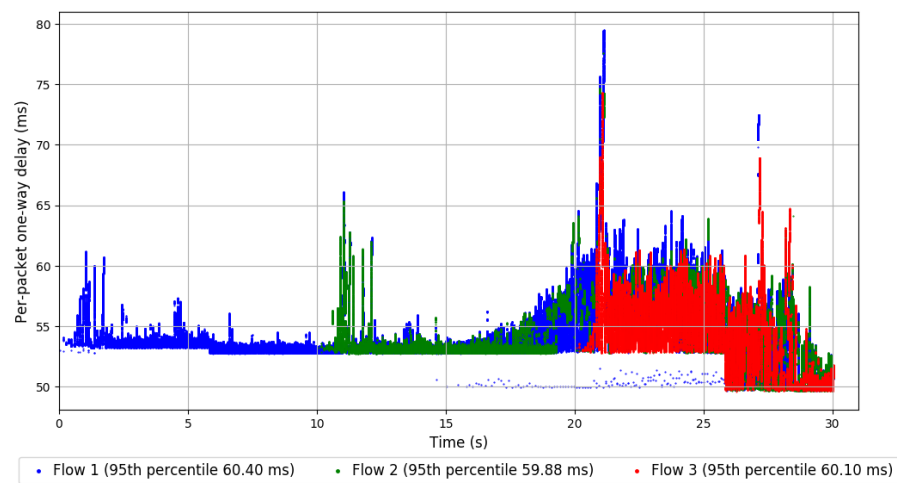
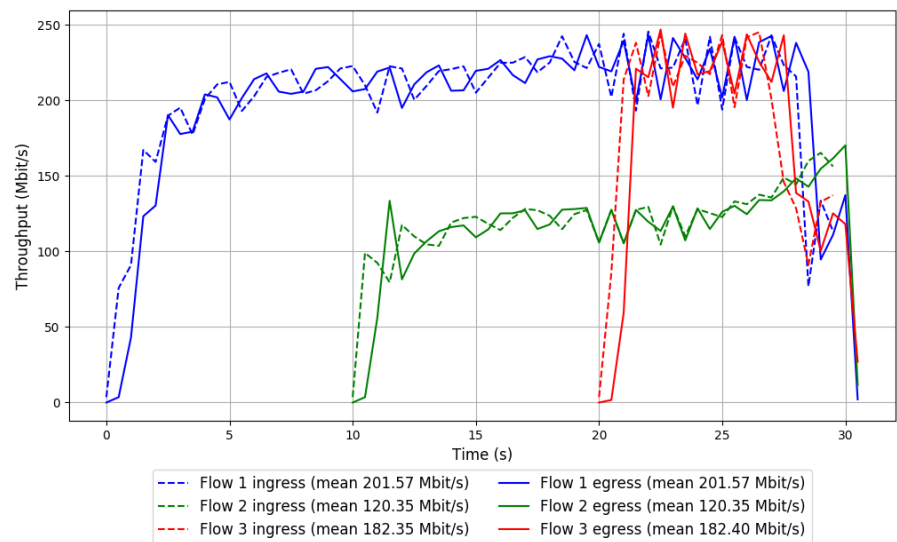
-- Flow 3:

Average throughput: 182.40 Mbit/s

95th percentile per-packet one-way delay: 60.104 ms

Loss rate: 0.00%

Run 9: Report of TCP Cubic — Data Link



Run 10: Statistics of TCP Cubic

Start at: 2018-05-26 06:20:05

End at: 2018-05-26 06:20:35

Local clock offset: -0.248 ms

Remote clock offset: 0.015 ms

Below is generated by plot.py at 2018-05-26 07:14:01

Datalink statistics

-- Total of 3 flows:

Average throughput: 305.33 Mbit/s

95th percentile per-packet one-way delay: 60.453 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 161.62 Mbit/s

95th percentile per-packet one-way delay: 60.235 ms

Loss rate: 0.03%

-- Flow 2:

Average throughput: 110.75 Mbit/s

95th percentile per-packet one-way delay: 57.310 ms

Loss rate: 0.09%

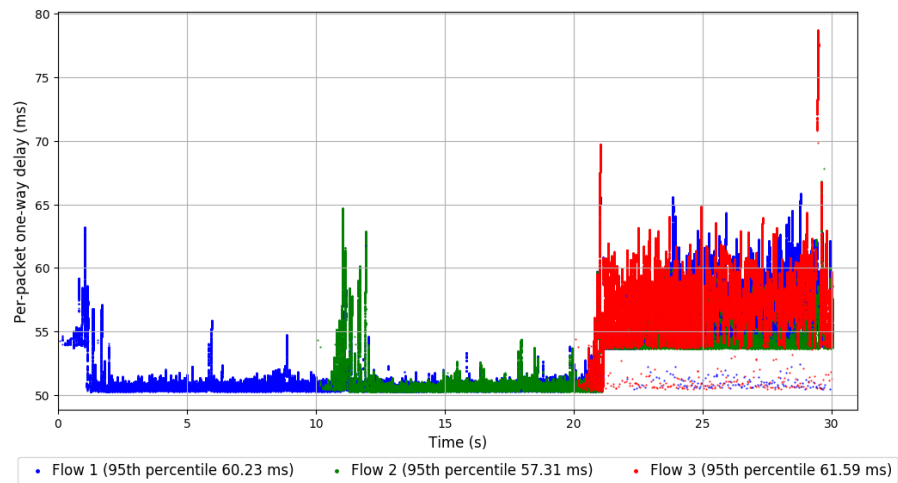
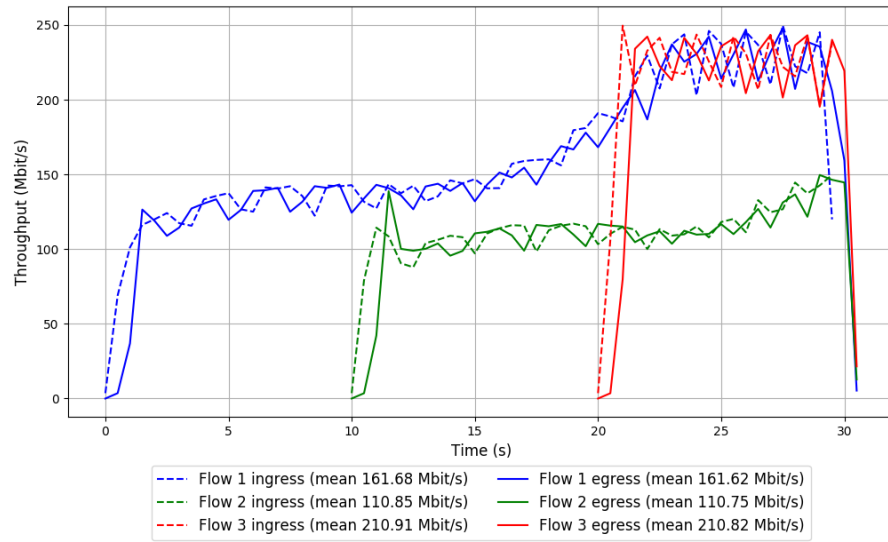
-- Flow 3:

Average throughput: 210.82 Mbit/s

95th percentile per-packet one-way delay: 61.589 ms

Loss rate: 0.00%

Run 10: Report of TCP Cubic — Data Link



Run 1: Statistics of FillP

Start at: 2018-05-26 02:43:27

End at: 2018-05-26 02:43:57

Local clock offset: -0.388 ms

Remote clock offset: 0.326 ms

Below is generated by plot.py at 2018-05-26 07:35:50

Datalink statistics

-- Total of 3 flows:

Average throughput: 1320.21 Mbit/s

95th percentile per-packet one-way delay: 117.754 ms

Loss rate: 0.70%

-- Flow 1:

Average throughput: 711.14 Mbit/s

95th percentile per-packet one-way delay: 128.443 ms

Loss rate: 1.29%

-- Flow 2:

Average throughput: 616.92 Mbit/s

95th percentile per-packet one-way delay: 62.977 ms

Loss rate: 0.01%

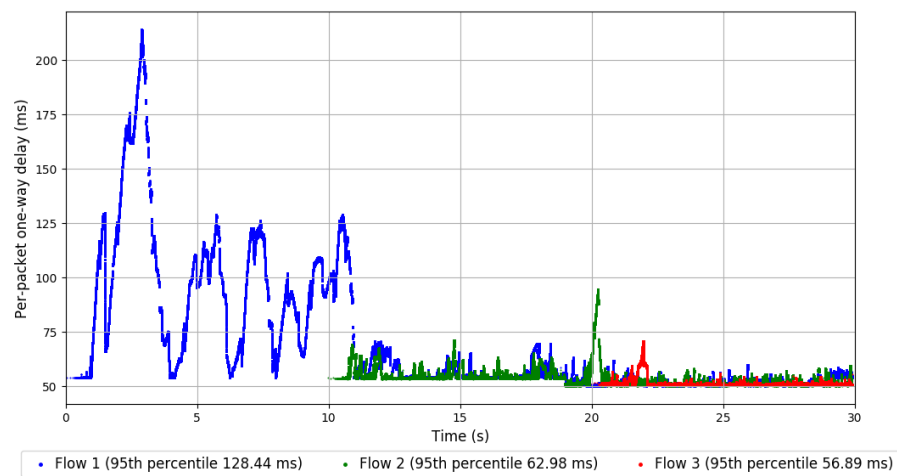
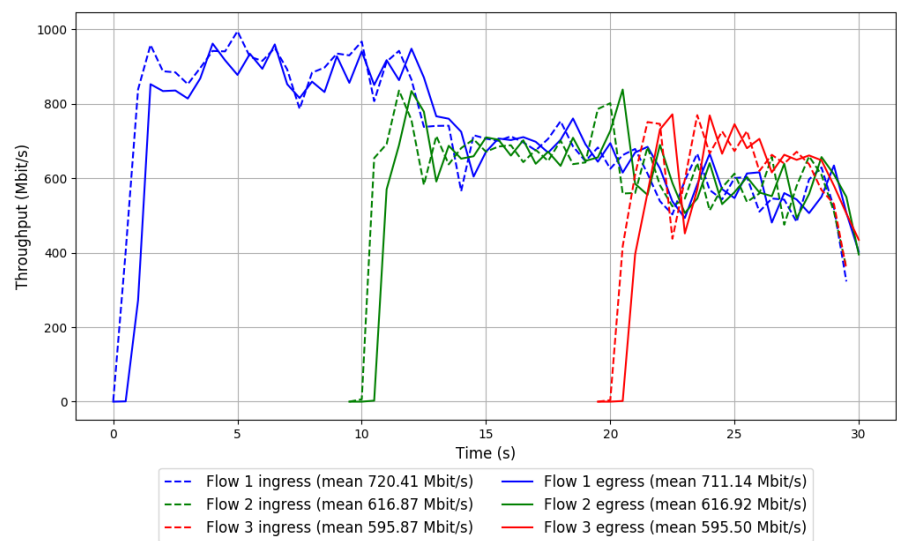
-- Flow 3:

Average throughput: 595.50 Mbit/s

95th percentile per-packet one-way delay: 56.893 ms

Loss rate: 0.02%

Run 1: Report of FillP — Data Link

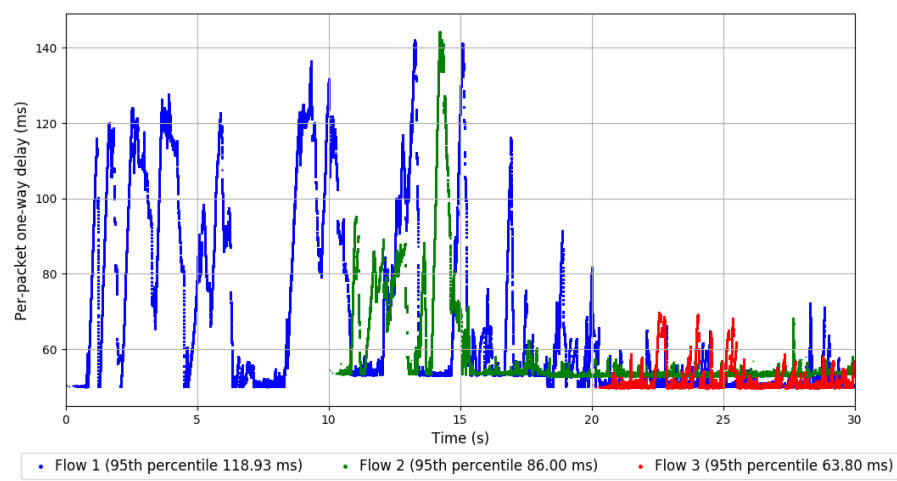
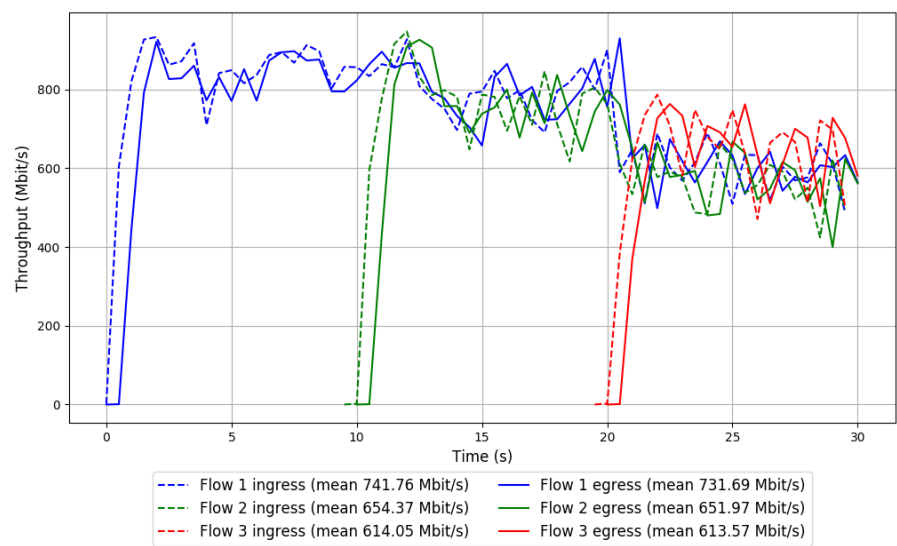


Run 2: Statistics of FillP

Start at: 2018-05-26 03:06:18
End at: 2018-05-26 03:06:48
Local clock offset: -0.242 ms
Remote clock offset: -0.063 ms

Below is generated by plot.py at 2018-05-26 07:37:32
Datalink statistics
-- Total of 3 flows:
Average throughput: 1369.58 Mbit/s
95th percentile per-packet one-way delay: 114.798 ms
Loss rate: 0.85%
-- Flow 1:
Average throughput: 731.69 Mbit/s
95th percentile per-packet one-way delay: 118.927 ms
Loss rate: 1.36%
-- Flow 2:
Average throughput: 651.97 Mbit/s
95th percentile per-packet one-way delay: 86.001 ms
Loss rate: 0.38%
-- Flow 3:
Average throughput: 613.57 Mbit/s
95th percentile per-packet one-way delay: 63.797 ms
Loss rate: 0.05%

Run 2: Report of FillP — Data Link

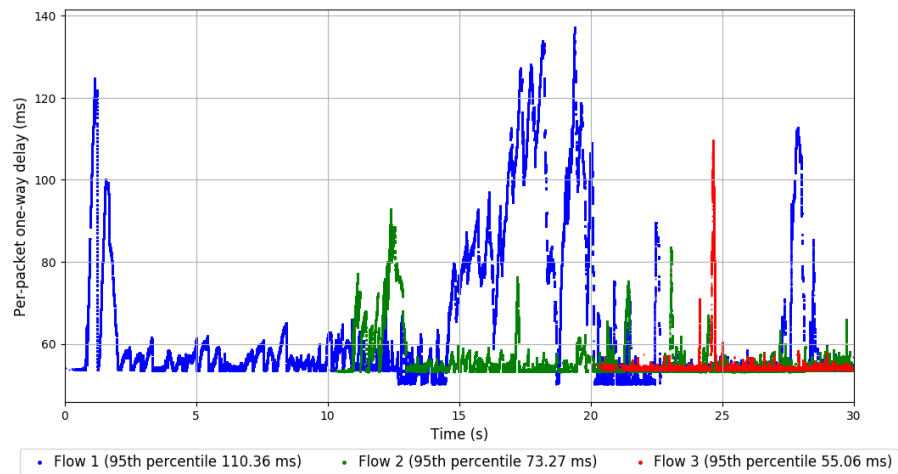
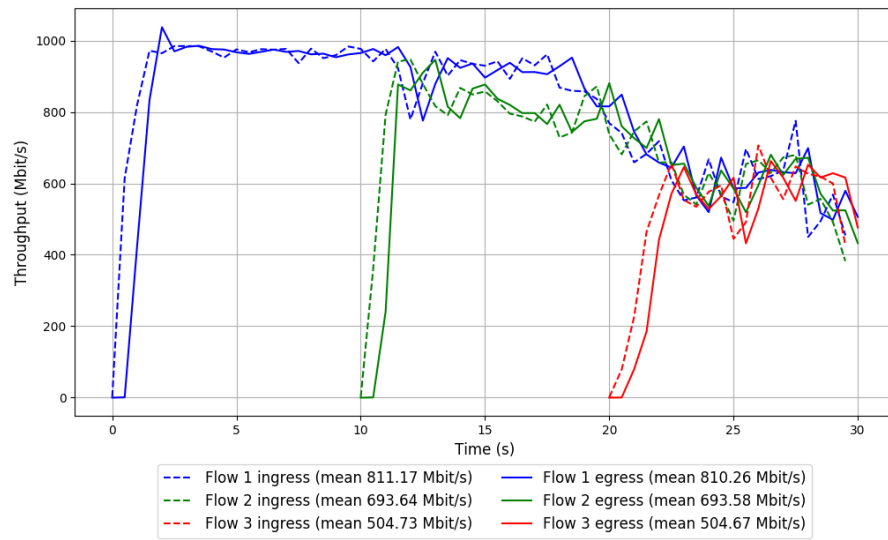


Run 3: Statistics of FillP

Start at: 2018-05-26 03:29:38
End at: 2018-05-26 03:30:08
Local clock offset: -0.361 ms
Remote clock offset: -0.024 ms

Below is generated by plot.py at 2018-05-26 07:39:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 1438.42 Mbit/s
95th percentile per-packet one-way delay: 101.304 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 810.26 Mbit/s
95th percentile per-packet one-way delay: 110.359 ms
Loss rate: 0.11%
-- Flow 2:
Average throughput: 693.58 Mbit/s
95th percentile per-packet one-way delay: 73.271 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 504.67 Mbit/s
95th percentile per-packet one-way delay: 55.057 ms
Loss rate: 0.05%

Run 3: Report of FillP — Data Link



Run 4: Statistics of FillP

Start at: 2018-05-26 03:53:01

End at: 2018-05-26 03:53:31

Local clock offset: -0.41 ms

Remote clock offset: 0.372 ms

Below is generated by plot.py at 2018-05-26 07:39:17

Datalink statistics

-- Total of 3 flows:

Average throughput: 1153.30 Mbit/s

95th percentile per-packet one-way delay: 105.899 ms

Loss rate: 0.42%

-- Flow 1:

Average throughput: 684.31 Mbit/s

95th percentile per-packet one-way delay: 111.476 ms

Loss rate: 0.21%

-- Flow 2:

Average throughput: 496.39 Mbit/s

95th percentile per-packet one-way delay: 96.901 ms

Loss rate: 1.02%

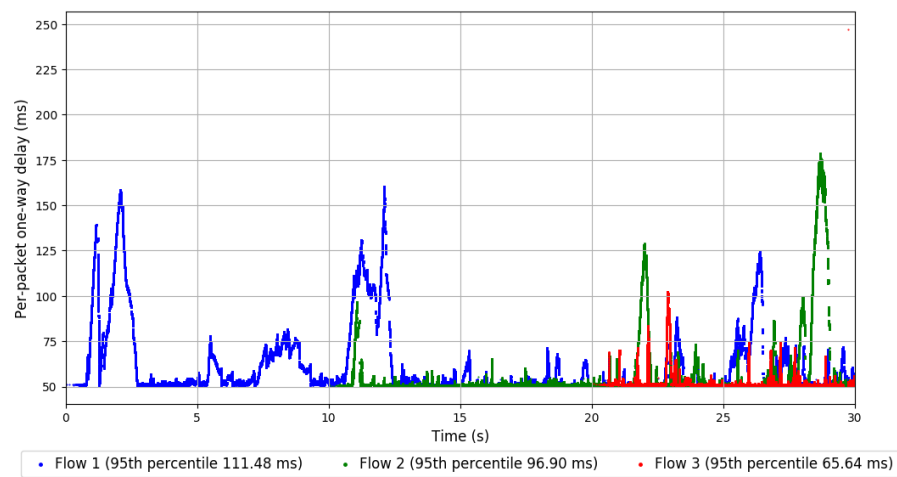
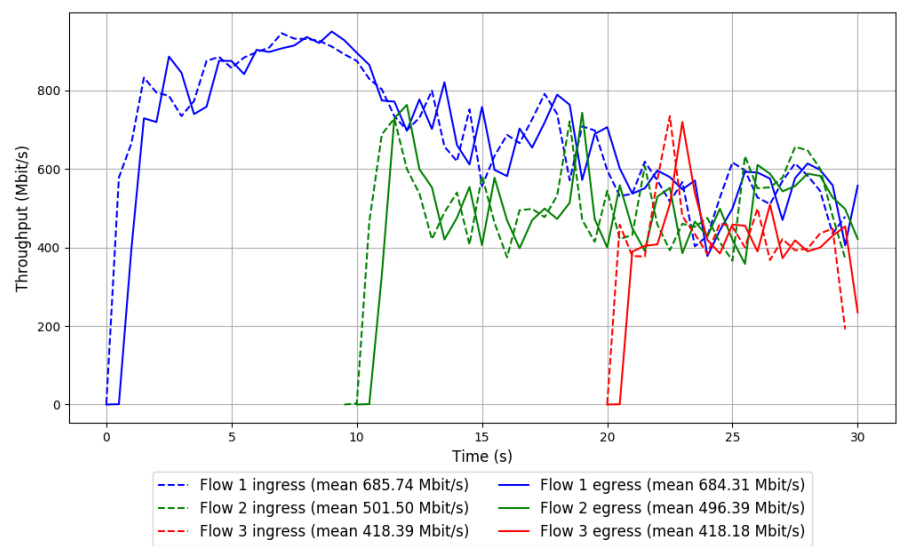
-- Flow 3:

Average throughput: 418.18 Mbit/s

95th percentile per-packet one-way delay: 65.640 ms

Loss rate: 0.01%

Run 4: Report of FillP — Data Link

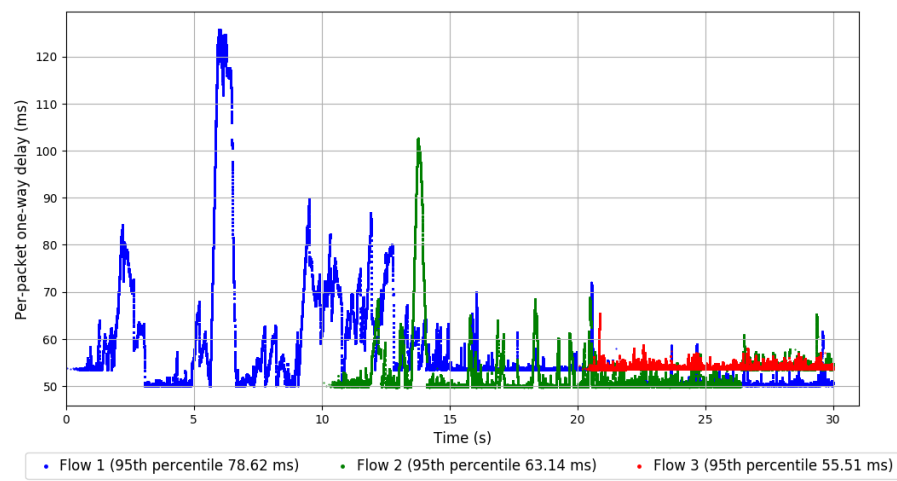
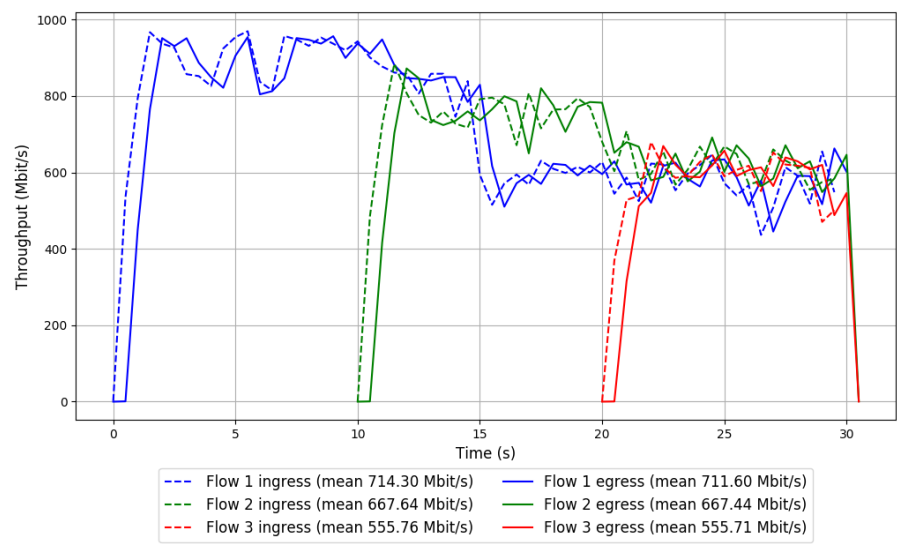


Run 5: Statistics of FillP

Start at: 2018-05-26 04:15:44
End at: 2018-05-26 04:16:14
Local clock offset: 0.05 ms
Remote clock offset: -0.018 ms

Below is generated by plot.py at 2018-05-26 07:39:17
Datalink statistics
-- Total of 3 flows:
Average throughput: 1339.75 Mbit/s
95th percentile per-packet one-way delay: 74.520 ms
Loss rate: 0.21%
-- Flow 1:
Average throughput: 711.60 Mbit/s
95th percentile per-packet one-way delay: 78.618 ms
Loss rate: 0.39%
-- Flow 2:
Average throughput: 667.44 Mbit/s
95th percentile per-packet one-way delay: 63.144 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 555.71 Mbit/s
95th percentile per-packet one-way delay: 55.514 ms
Loss rate: 0.02%

Run 5: Report of FillP — Data Link



Run 6: Statistics of FillP

Start at: 2018-05-26 04:38:28

End at: 2018-05-26 04:38:58

Local clock offset: 0.339 ms

Remote clock offset: -0.09 ms

Below is generated by plot.py at 2018-05-26 07:40:15

Datalink statistics

-- Total of 3 flows:

Average throughput: 1319.82 Mbit/s

95th percentile per-packet one-way delay: 108.393 ms

Loss rate: 0.72%

-- Flow 1:

Average throughput: 718.78 Mbit/s

95th percentile per-packet one-way delay: 114.534 ms

Loss rate: 1.11%

-- Flow 2:

Average throughput: 615.05 Mbit/s

95th percentile per-packet one-way delay: 61.405 ms

Loss rate: 0.03%

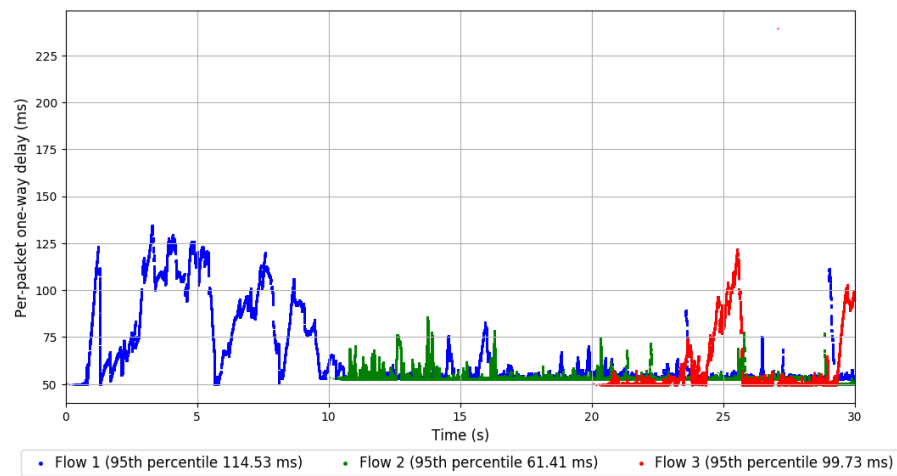
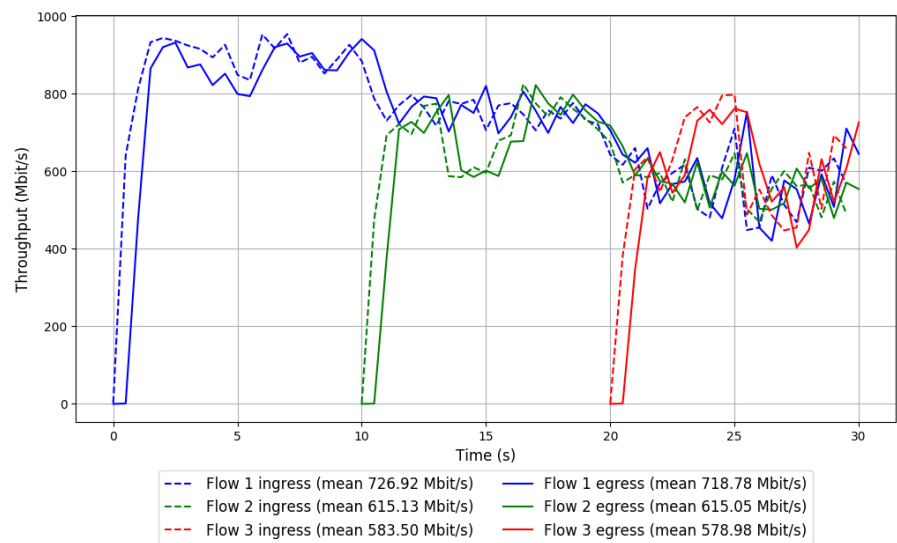
-- Flow 3:

Average throughput: 578.98 Mbit/s

95th percentile per-packet one-way delay: 99.727 ms

Loss rate: 0.71%

Run 6: Report of FillP — Data Link



Run 7: Statistics of FillP

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

End at: 2018-05-26 05:01:58

Local clock offset: 0.113 ms

Remote clock offset: -0.02 ms

Below is generated by plot.py at 2018-05-26 07:43:22

Datalink statistics

-- Total of 3 flows:

Average throughput: 1403.41 Mbit/s

95th percentile per-packet one-way delay: 123.744 ms

Loss rate: 0.96%

-- Flow 1:

Average throughput: 758.63 Mbit/s

95th percentile per-packet one-way delay: 118.556 ms

Loss rate: 1.02%

-- Flow 2:

Average throughput: 673.70 Mbit/s

95th percentile per-packet one-way delay: 133.110 ms

Loss rate: 1.27%

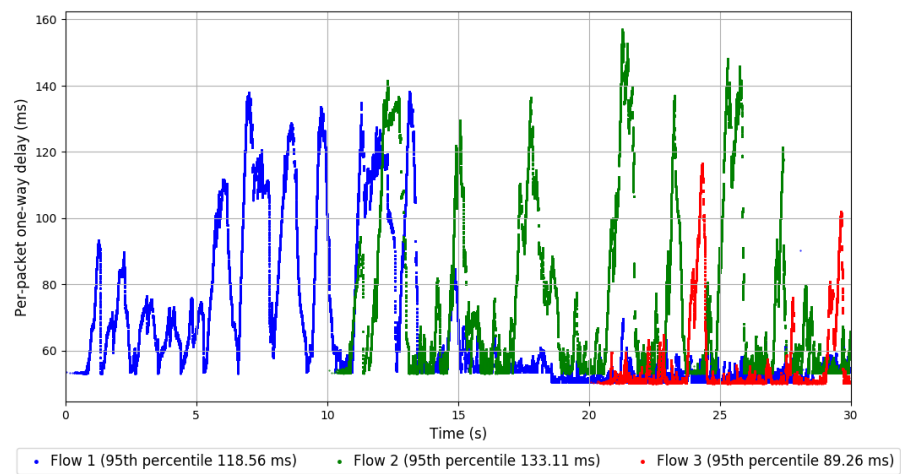
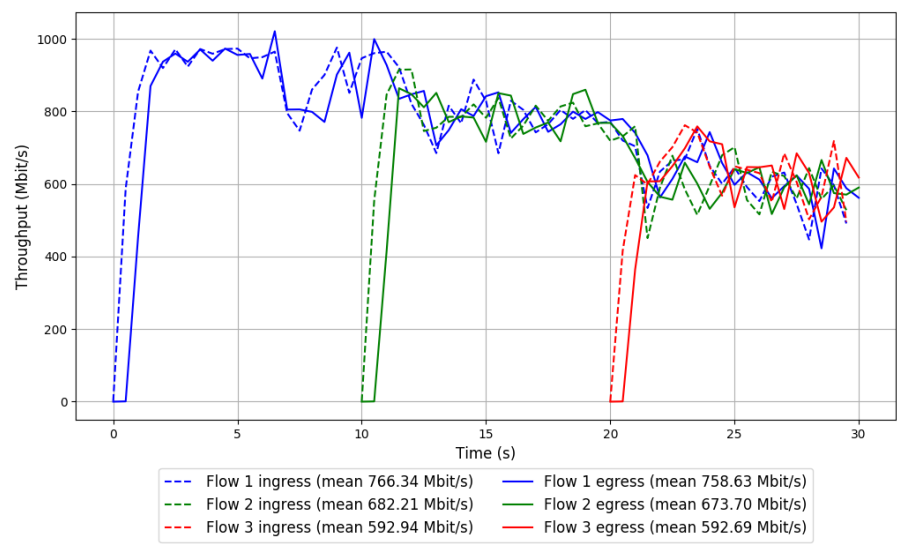
-- Flow 3:

Average throughput: 592.69 Mbit/s

95th percentile per-packet one-way delay: 89.263 ms

Loss rate: 0.03%

Run 7: Report of FillP — Data Link

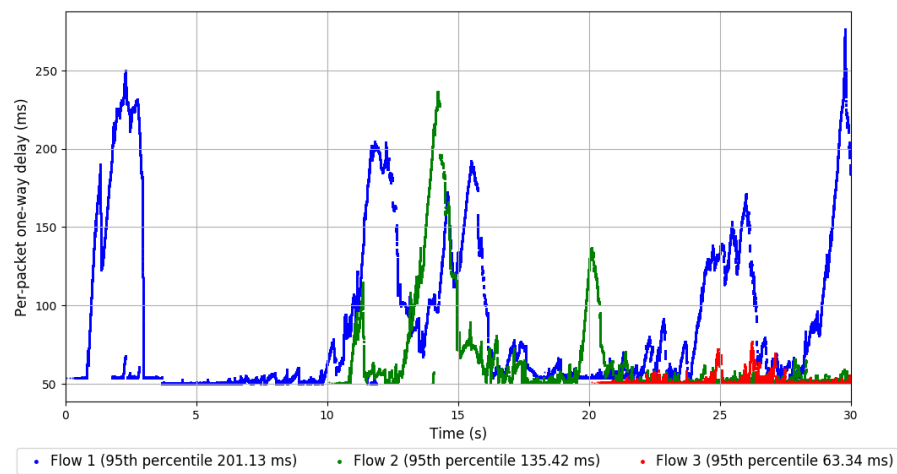
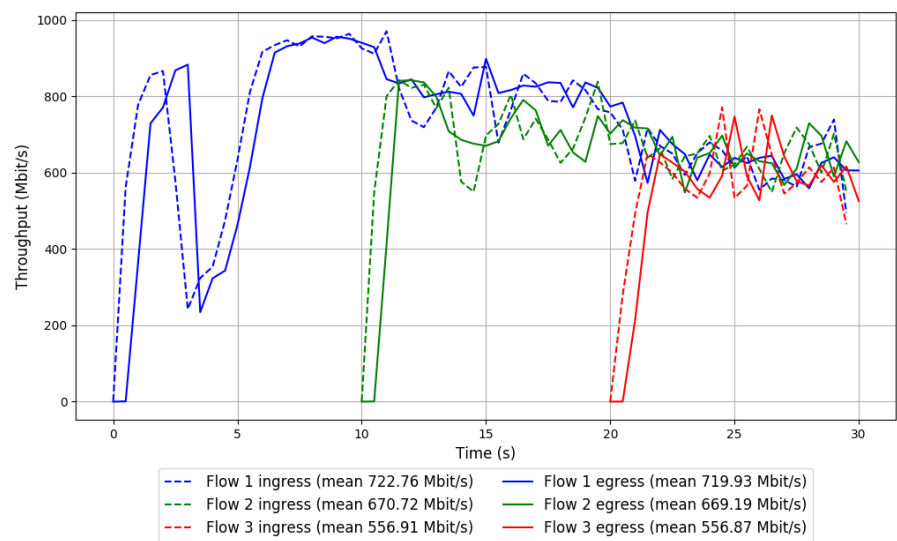


Run 8: Statistics of FillP

Start at: 2018-05-26 05:24:33
End at: 2018-05-26 05:25:03
Local clock offset: -0.11 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-05-26 07:43:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 1348.97 Mbit/s
95th percentile per-packet one-way delay: 187.054 ms
Loss rate: 0.29%
-- Flow 1:
Average throughput: 719.93 Mbit/s
95th percentile per-packet one-way delay: 201.132 ms
Loss rate: 0.40%
-- Flow 2:
Average throughput: 669.19 Mbit/s
95th percentile per-packet one-way delay: 135.424 ms
Loss rate: 0.21%
-- Flow 3:
Average throughput: 556.87 Mbit/s
95th percentile per-packet one-way delay: 63.338 ms
Loss rate: 0.01%

Run 8: Report of FillP — Data Link

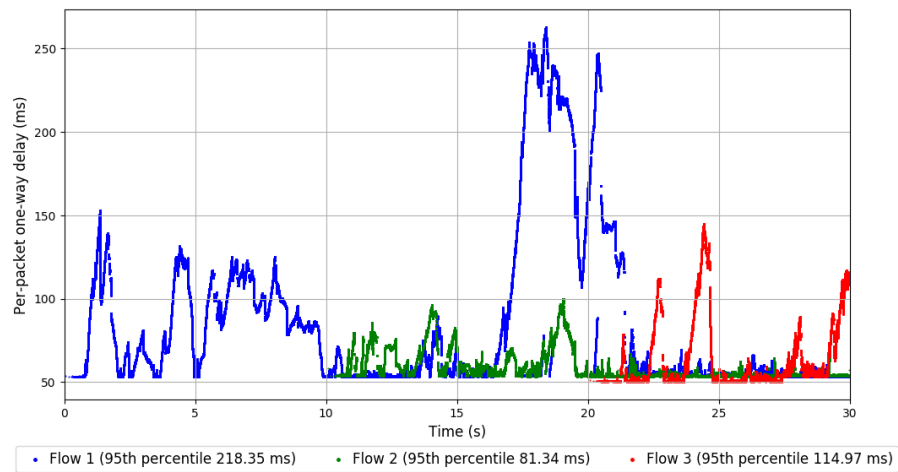
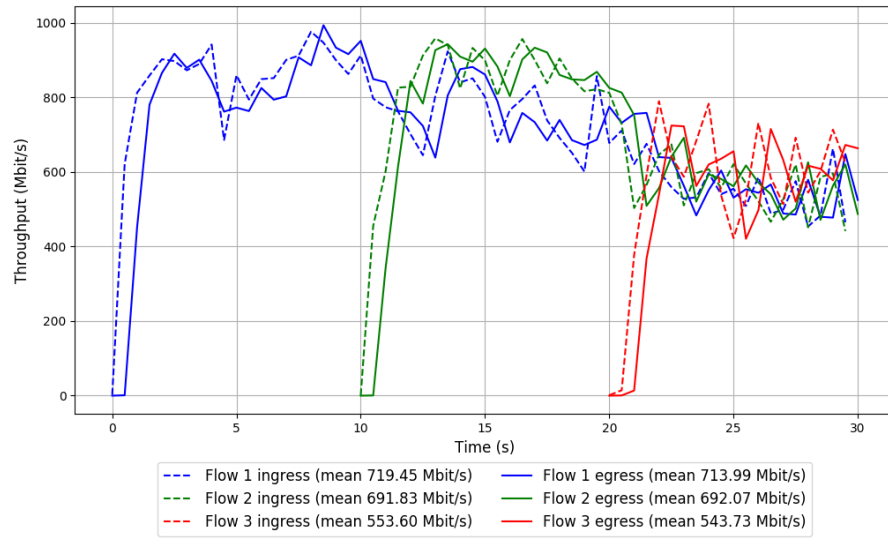


Run 9: Statistics of FillP

Start at: 2018-05-26 05:47:29
End at: 2018-05-26 05:47:59
Local clock offset: 0.04 ms
Remote clock offset: -0.111 ms

Below is generated by plot.py at 2018-05-26 08:04:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 1354.21 Mbit/s
95th percentile per-packet one-way delay: 144.580 ms
Loss rate: 0.65%
-- Flow 1:
Average throughput: 713.99 Mbit/s
95th percentile per-packet one-way delay: 218.350 ms
Loss rate: 0.77%
-- Flow 2:
Average throughput: 692.07 Mbit/s
95th percentile per-packet one-way delay: 81.336 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 543.73 Mbit/s
95th percentile per-packet one-way delay: 114.969 ms
Loss rate: 1.79%

Run 9: Report of FillP — Data Link



Run 10: Statistics of FillP

Start at: 2018-05-26 06:10:14

End at: 2018-05-26 06:10:44

Local clock offset: -0.15 ms

Remote clock offset: 0.083 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 1303.16 Mbit/s

95th percentile per-packet one-way delay: 158.453 ms

Loss rate: 0.83%

-- Flow 1:

Average throughput: 698.76 Mbit/s

95th percentile per-packet one-way delay: 154.459 ms

Loss rate: 1.45%

-- Flow 2:

Average throughput: 639.90 Mbit/s

95th percentile per-packet one-way delay: 67.142 ms

Loss rate: 0.01%

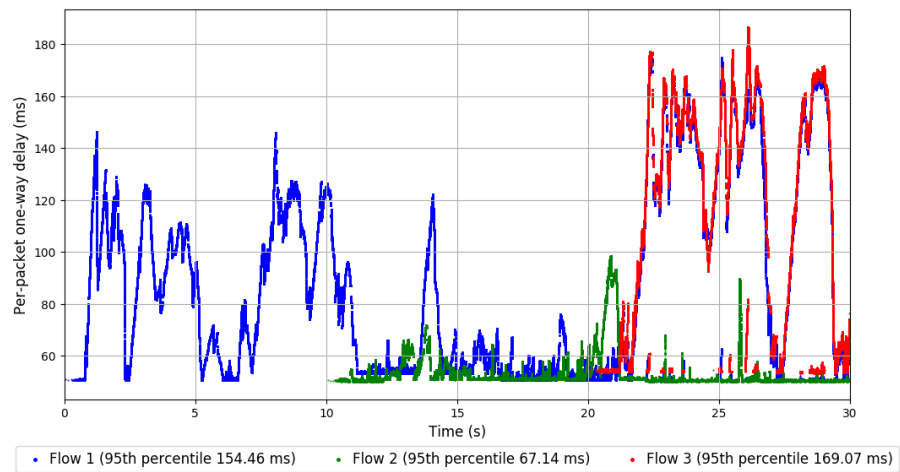
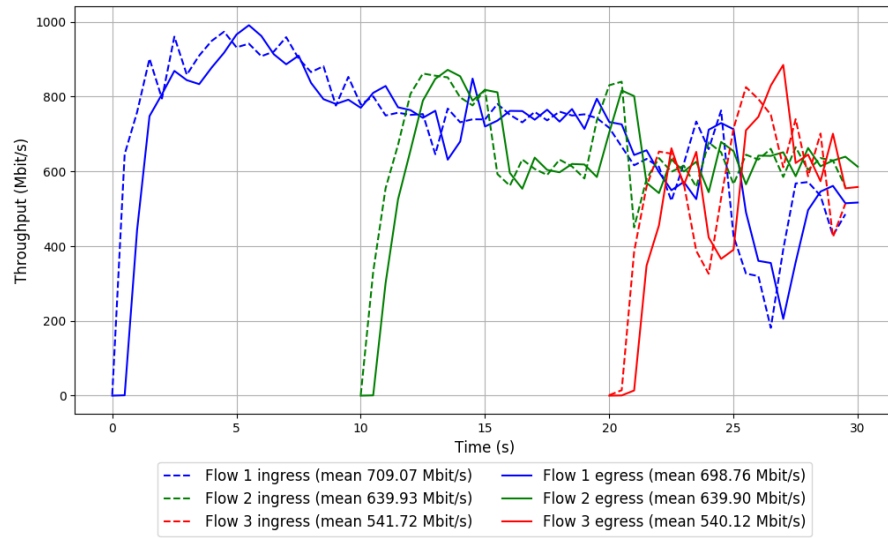
-- Flow 3:

Average throughput: 540.12 Mbit/s

95th percentile per-packet one-way delay: 169.070 ms

Loss rate: 0.30%

Run 10: Report of FillP — Data Link

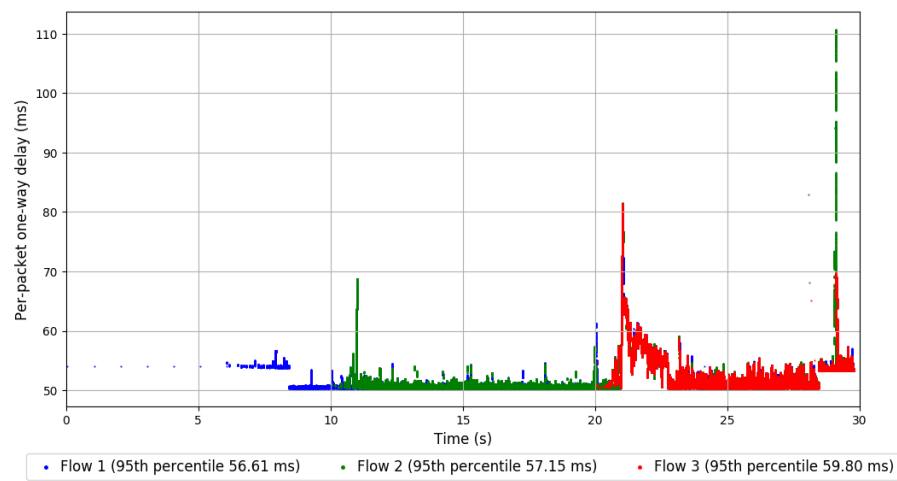
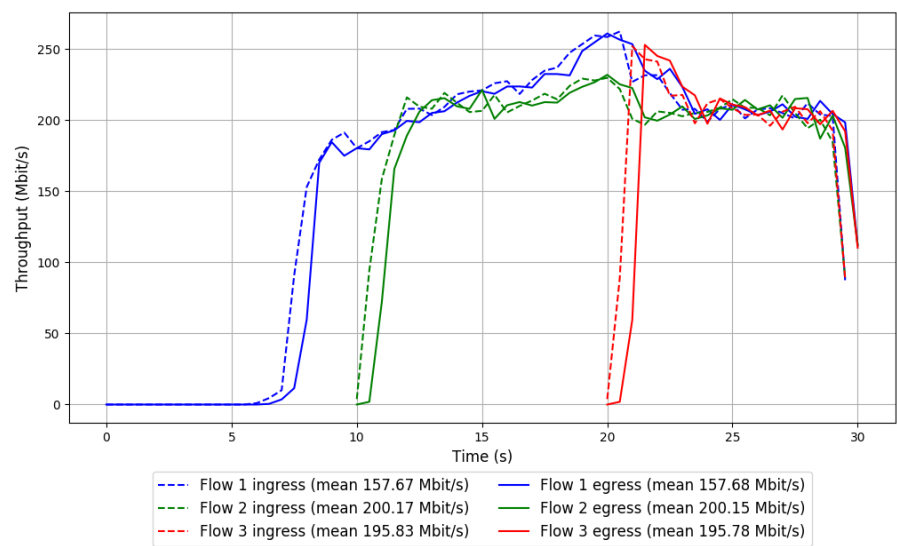


```
Run 1: Statistics of Indigo

Start at: 2018-05-26 02:45:28
End at: 2018-05-26 02:45:58
Local clock offset: -0.372 ms
Remote clock offset: 0.203 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 354.42 Mbit/s
95th percentile per-packet one-way delay: 57.625 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 157.68 Mbit/s
95th percentile per-packet one-way delay: 56.614 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.15 Mbit/s
95th percentile per-packet one-way delay: 57.152 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 195.78 Mbit/s
95th percentile per-packet one-way delay: 59.804 ms
Loss rate: 0.00%
```


Run 1: Report of Indigo — Data Link



Run 2: Statistics of Indigo

Start at: 2018-05-26 03:08:20

End at: 2018-05-26 03:08:50

Local clock offset: -0.023 ms

Remote clock offset: 0.275 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 405.32 Mbit/s

95th percentile per-packet one-way delay: 56.983 ms

Loss rate: 0.03%

-- Flow 1:

Average throughput: 226.96 Mbit/s

95th percentile per-packet one-way delay: 55.125 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 186.91 Mbit/s

95th percentile per-packet one-way delay: 57.918 ms

Loss rate: 0.04%

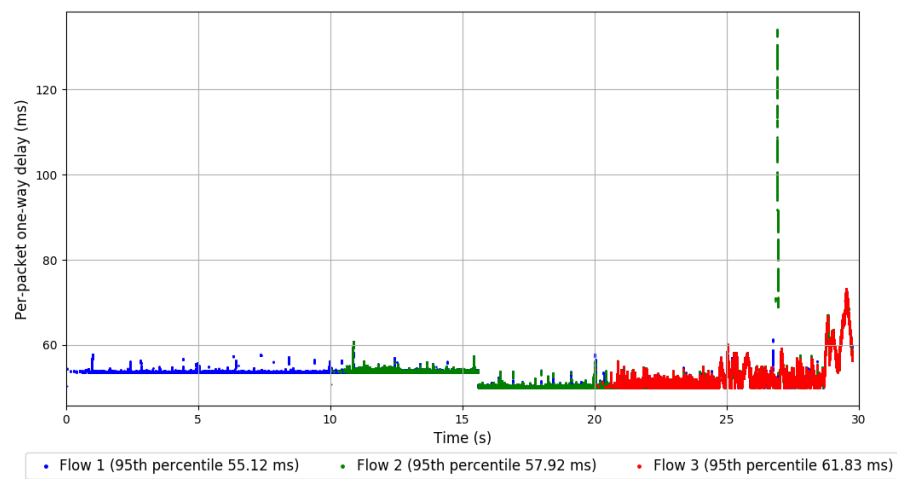
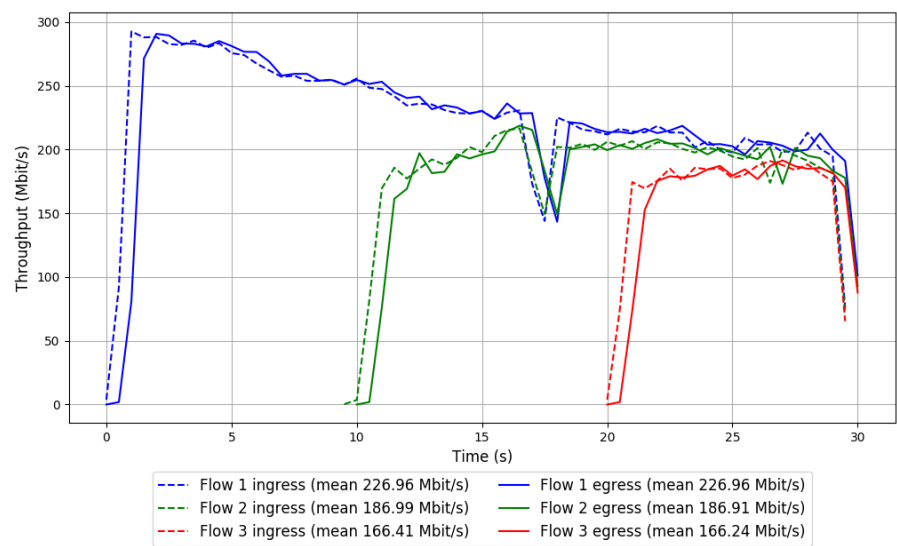
-- Flow 3:

Average throughput: 166.24 Mbit/s

95th percentile per-packet one-way delay: 61.834 ms

Loss rate: 0.11%

Run 2: Report of Indigo — Data Link



Run 3: Statistics of Indigo

Start at: 2018-05-26 03:31:44

End at: 2018-05-26 03:32:14

Local clock offset: -0.829 ms

Remote clock offset: 0.245 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.26 Mbit/s

95th percentile per-packet one-way delay: 54.843 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 174.31 Mbit/s

95th percentile per-packet one-way delay: 54.792 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 199.45 Mbit/s

95th percentile per-packet one-way delay: 54.944 ms

Loss rate: 0.00%

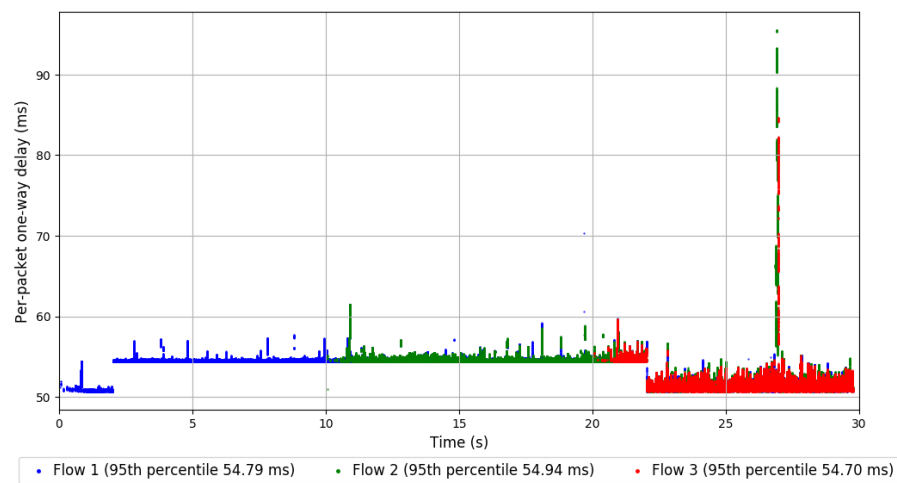
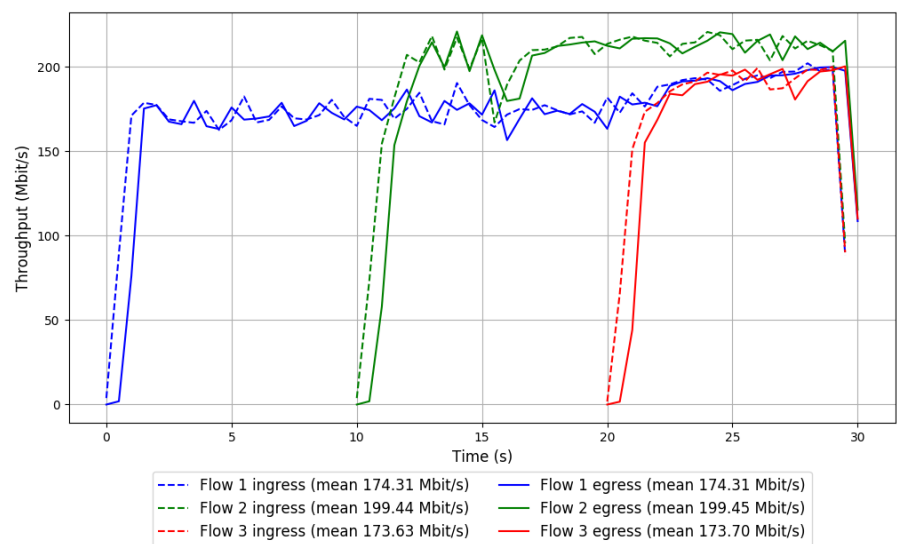
-- Flow 3:

Average throughput: 173.70 Mbit/s

95th percentile per-packet one-way delay: 54.696 ms

Loss rate: 0.00%

Run 3: Report of Indigo — Data Link

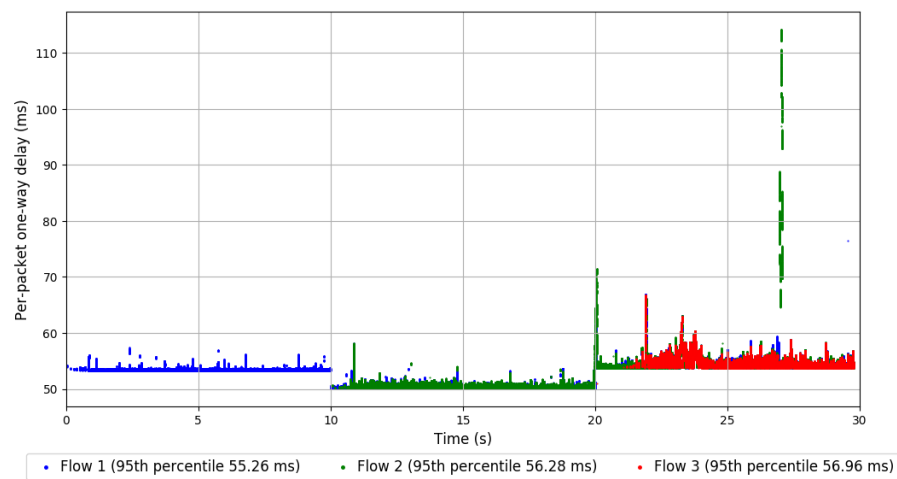
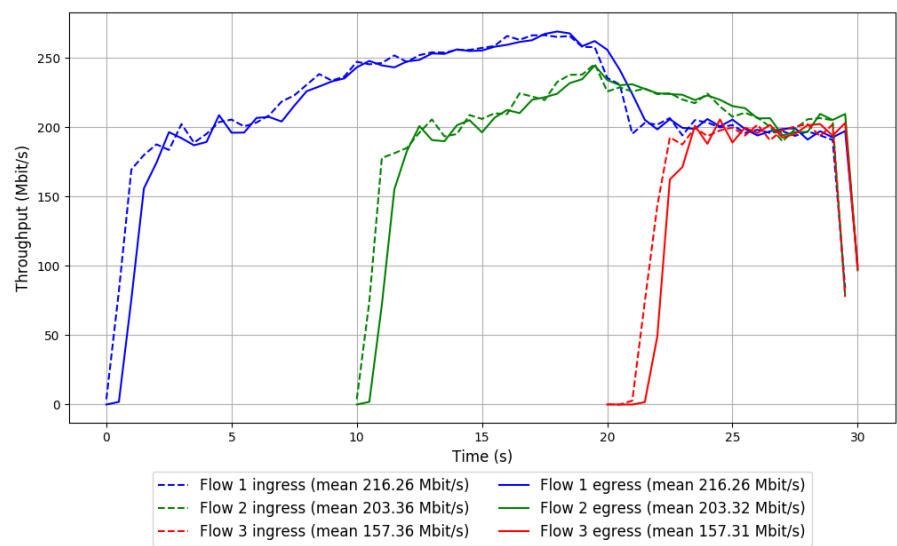


Run 4: Statistics of Indigo

Start at: 2018-05-26 03:54:56
End at: 2018-05-26 03:55:26
Local clock offset: -0.682 ms
Remote clock offset: -0.178 ms

Below is generated by plot.py at 2018-05-26 08:04:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 402.37 Mbit/s
95th percentile per-packet one-way delay: 55.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 216.26 Mbit/s
95th percentile per-packet one-way delay: 55.257 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 203.32 Mbit/s
95th percentile per-packet one-way delay: 56.278 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 157.31 Mbit/s
95th percentile per-packet one-way delay: 56.962 ms
Loss rate: 0.01%

Run 4: Report of Indigo — Data Link



Run 5: Statistics of Indigo

Start at: 2018-05-26 04:17:47

End at: 2018-05-26 04:18:17

Local clock offset: -0.222 ms

Remote clock offset: 0.298 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 424.78 Mbit/s

95th percentile per-packet one-way delay: 55.464 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 219.36 Mbit/s

95th percentile per-packet one-way delay: 55.273 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 226.07 Mbit/s

95th percentile per-packet one-way delay: 55.523 ms

Loss rate: 0.00%

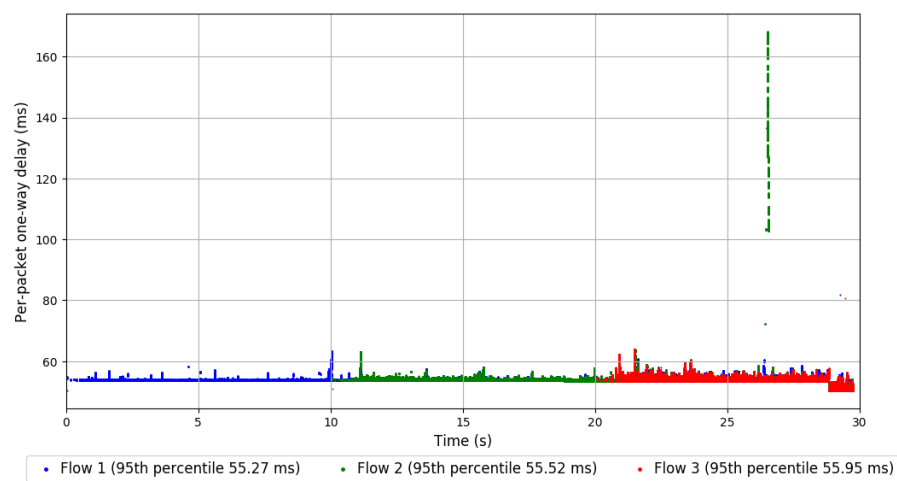
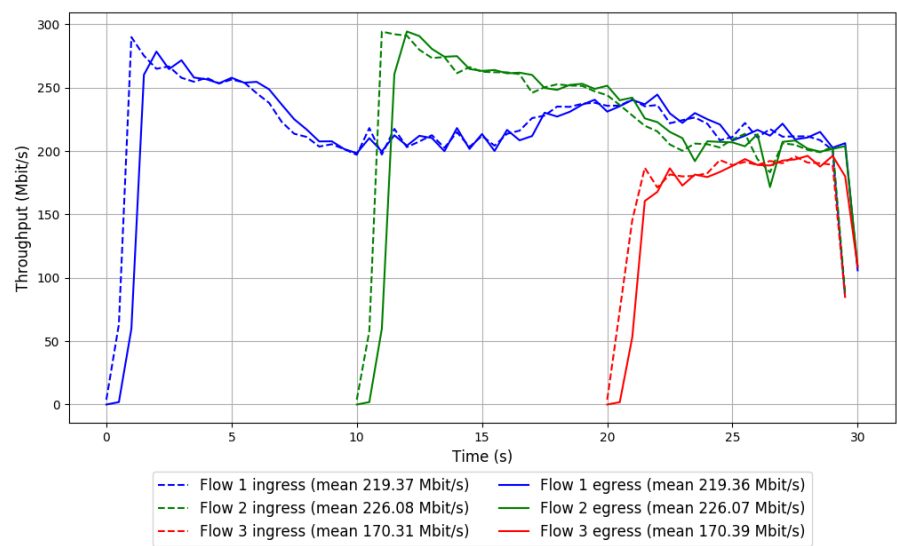
-- Flow 3:

Average throughput: 170.39 Mbit/s

95th percentile per-packet one-way delay: 55.951 ms

Loss rate: 0.00%

Run 5: Report of Indigo — Data Link

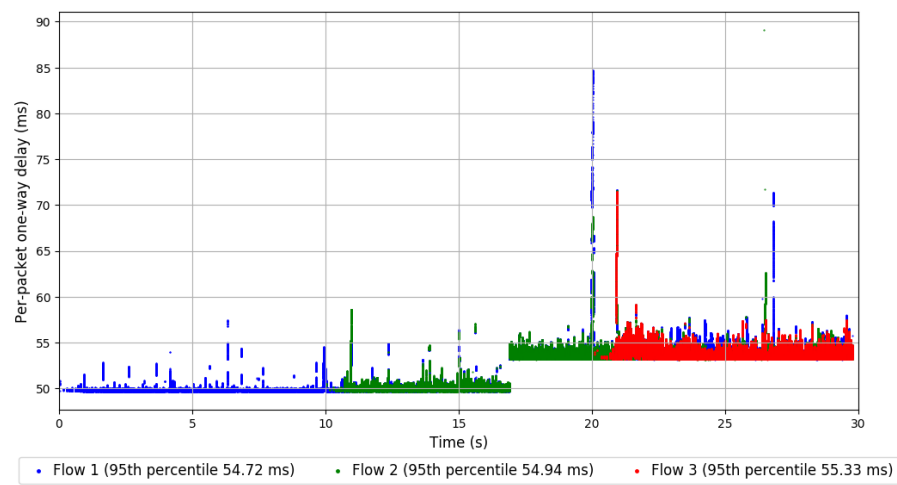
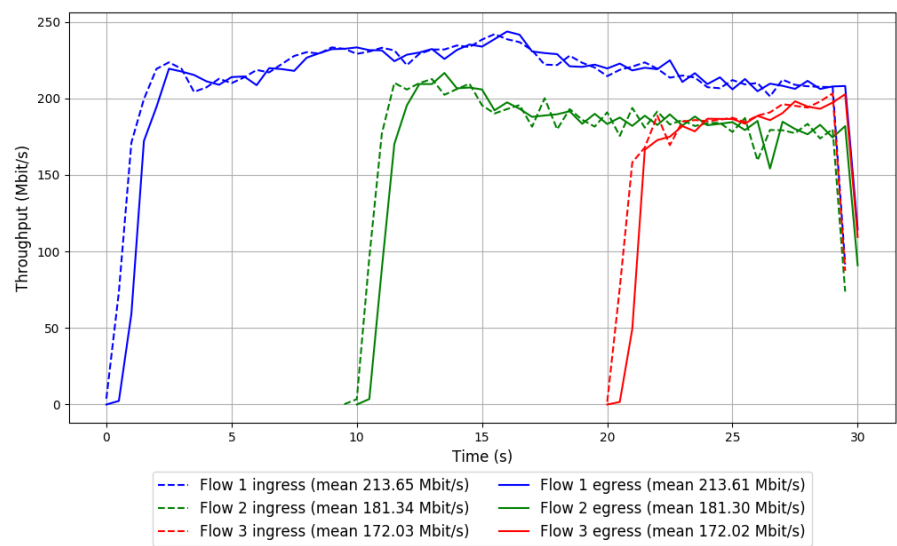


Run 6: Statistics of Indigo

Start at: 2018-05-26 04:40:29
End at: 2018-05-26 04:40:59
Local clock offset: 0.206 ms
Remote clock offset: -0.142 ms

Below is generated by plot.py at 2018-05-26 08:04:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 389.90 Mbit/s
95th percentile per-packet one-way delay: 54.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 213.61 Mbit/s
95th percentile per-packet one-way delay: 54.722 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 181.30 Mbit/s
95th percentile per-packet one-way delay: 54.937 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 172.02 Mbit/s
95th percentile per-packet one-way delay: 55.334 ms
Loss rate: 0.01%

Run 6: Report of Indigo — Data Link



Run 7: Statistics of Indigo

Start at: 2018-05-26 05:03:35

End at: 2018-05-26 05:04:05

Local clock offset: -0.194 ms

Remote clock offset: 0.128 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 408.21 Mbit/s

95th percentile per-packet one-way delay: 54.544 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 230.86 Mbit/s

95th percentile per-packet one-way delay: 54.444 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 177.76 Mbit/s

95th percentile per-packet one-way delay: 54.781 ms

Loss rate: 0.00%

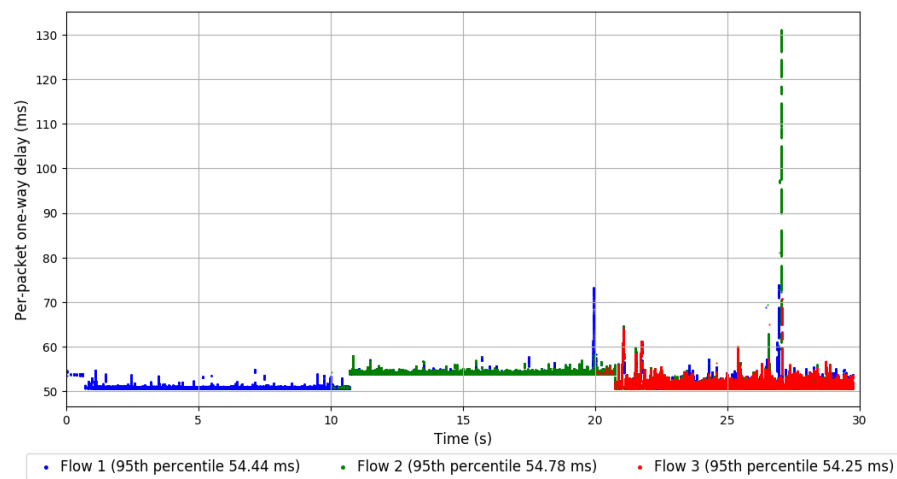
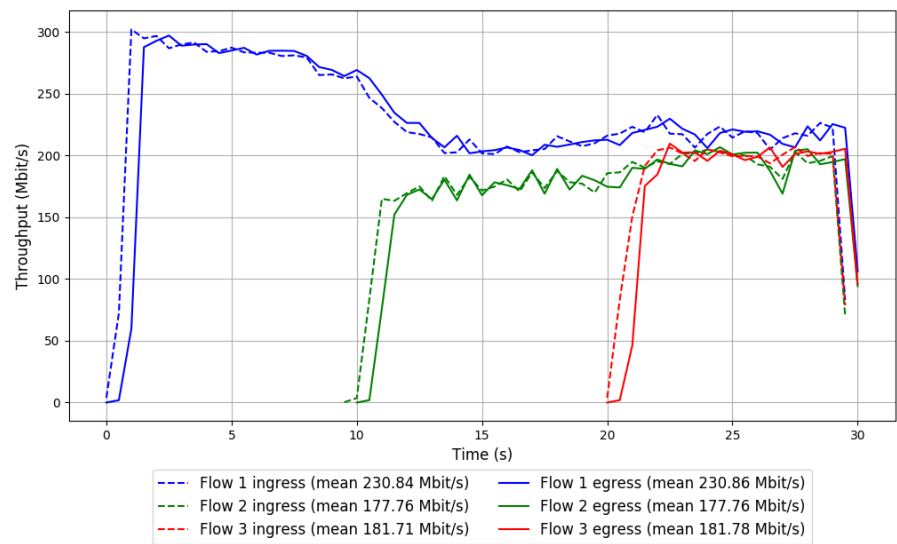
-- Flow 3:

Average throughput: 181.78 Mbit/s

95th percentile per-packet one-way delay: 54.252 ms

Loss rate: 0.00%

Run 7: Report of Indigo — Data Link



Run 8: Statistics of Indigo

Start at: 2018-05-26 05:26:35

End at: 2018-05-26 05:27:05

Local clock offset: -0.17 ms

Remote clock offset: 0.212 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 433.25 Mbit/s

95th percentile per-packet one-way delay: 55.059 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 232.59 Mbit/s

95th percentile per-packet one-way delay: 54.631 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 224.51 Mbit/s

95th percentile per-packet one-way delay: 55.136 ms

Loss rate: 0.00%

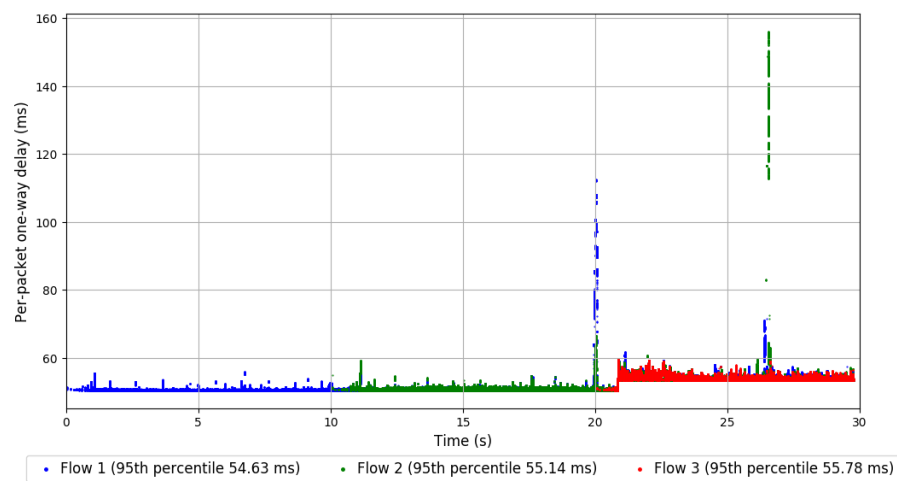
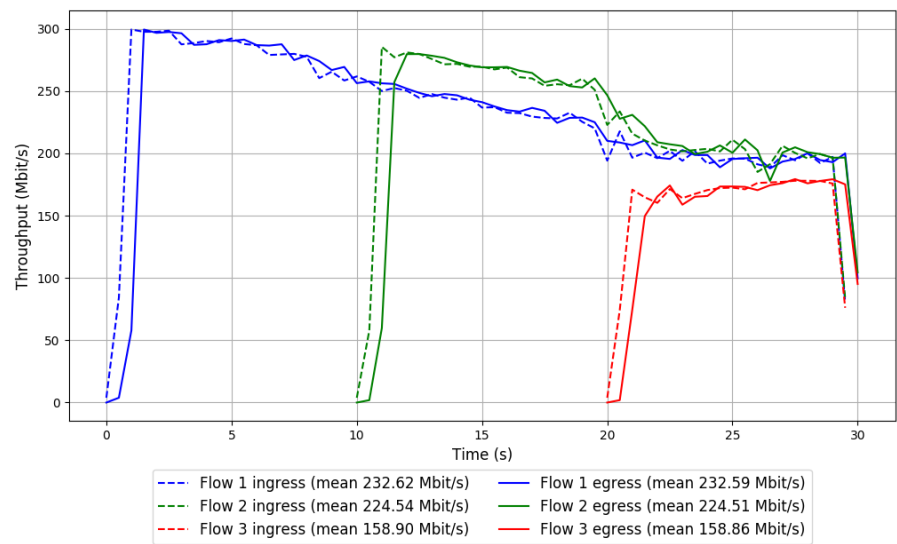
-- Flow 3:

Average throughput: 158.86 Mbit/s

95th percentile per-packet one-way delay: 55.784 ms

Loss rate: 0.00%

Run 8: Report of Indigo — Data Link

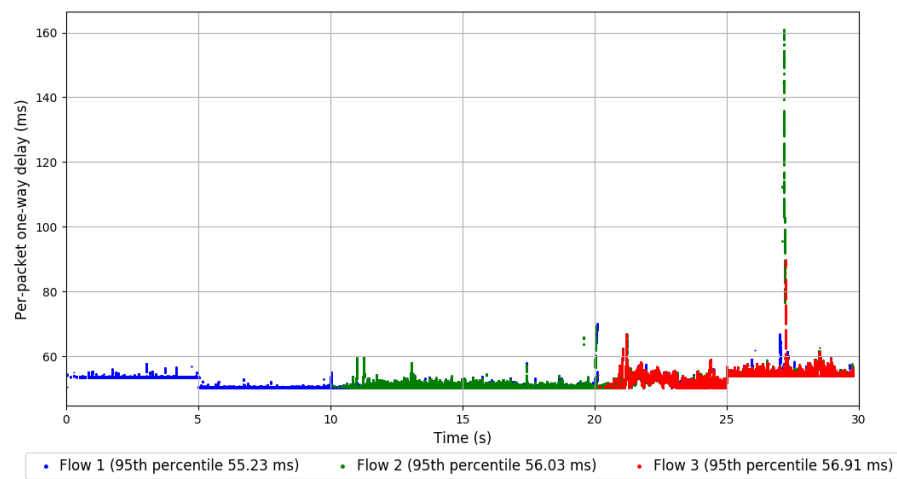
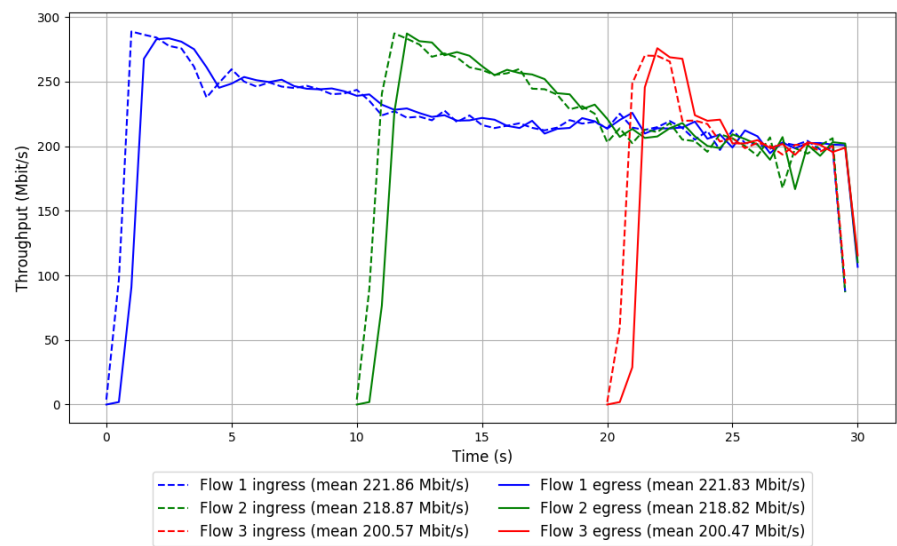


Run 9: Statistics of Indigo

Start at: 2018-05-26 05:49:31
End at: 2018-05-26 05:50:01
Local clock offset: -0.282 ms
Remote clock offset: -0.022 ms

Below is generated by plot.py at 2018-05-26 08:04:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 432.05 Mbit/s
95th percentile per-packet one-way delay: 55.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 221.83 Mbit/s
95th percentile per-packet one-way delay: 55.228 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 218.82 Mbit/s
95th percentile per-packet one-way delay: 56.028 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 200.47 Mbit/s
95th percentile per-packet one-way delay: 56.915 ms
Loss rate: 0.00%

Run 9: Report of Indigo — Data Link



Run 10: Statistics of Indigo

Start at: 2018-05-26 06:12:15

End at: 2018-05-26 06:12:45

Local clock offset: -0.467 ms

Remote clock offset: 0.231 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 395.64 Mbit/s

95th percentile per-packet one-way delay: 52.992 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 191.81 Mbit/s

95th percentile per-packet one-way delay: 52.671 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 225.80 Mbit/s

95th percentile per-packet one-way delay: 52.956 ms

Loss rate: 0.00%

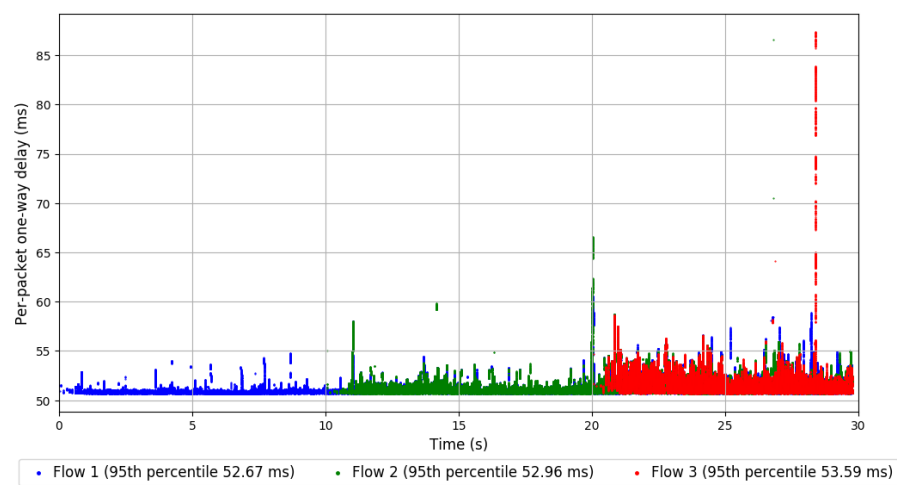
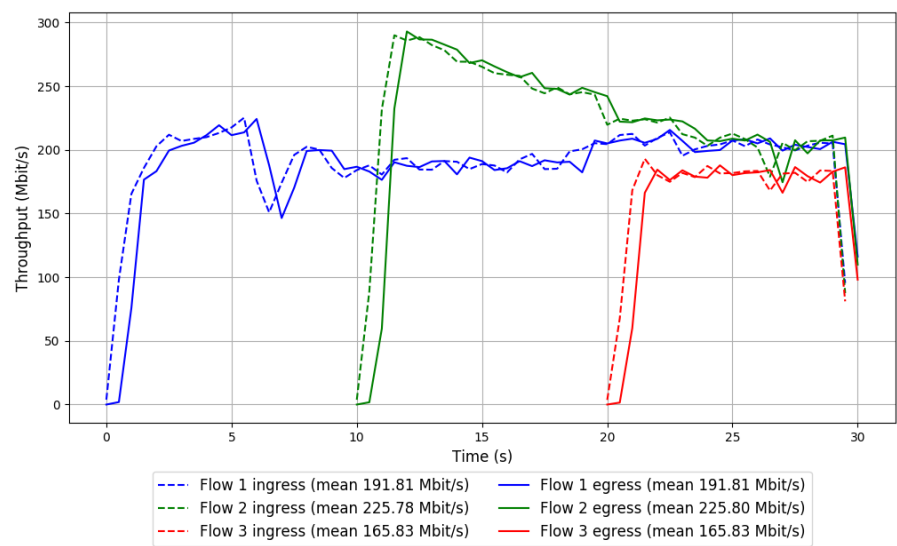
-- Flow 3:

Average throughput: 165.83 Mbit/s

95th percentile per-packet one-way delay: 53.586 ms

Loss rate: 0.01%

Run 10: Report of Indigo — Data Link

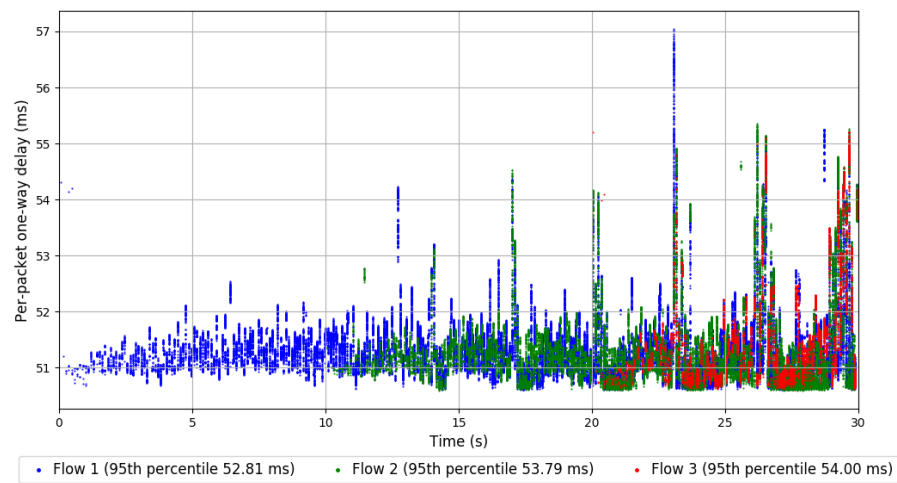
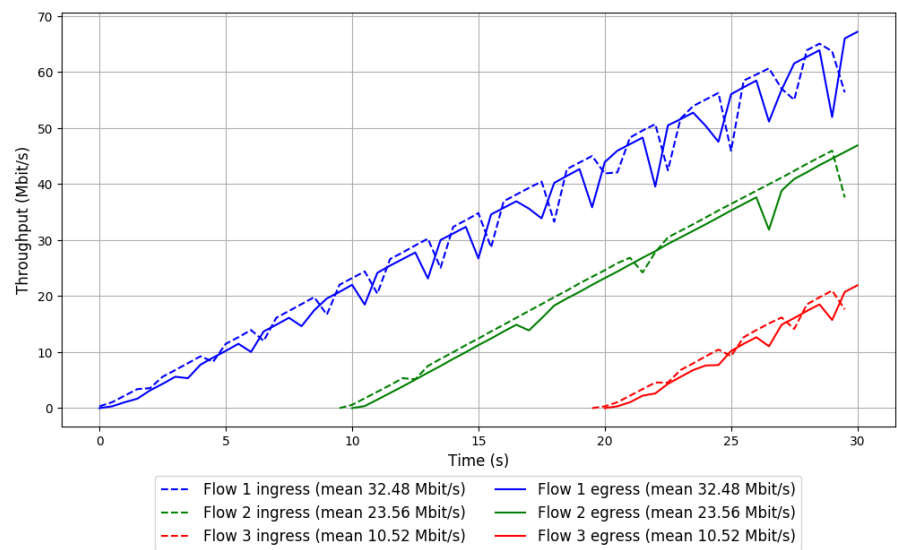


```
Run 1: Statistics of LEDBAT

Start at: 2018-05-26 02:48:46
End at: 2018-05-26 02:49:16
Local clock offset: -0.708 ms
Remote clock offset: 0.151 ms

# Below is generated by plot.py at 2018-05-26 08:04:23
# Datalink statistics
-- Total of 3 flows:
Average throughput: 51.67 Mbit/s
95th percentile per-packet one-way delay: 53.432 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.48 Mbit/s
95th percentile per-packet one-way delay: 52.809 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 23.56 Mbit/s
95th percentile per-packet one-way delay: 53.789 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.52 Mbit/s
95th percentile per-packet one-way delay: 54.001 ms
Loss rate: 0.00%
```

Run 1: Report of LEDBAT — Data Link



Run 2: Statistics of LEDBAT

Start at: 2018-05-26 03:11:44

End at: 2018-05-26 03:12:14

Local clock offset: -0.447 ms

Remote clock offset: 0.286 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 32.66 Mbit/s

95th percentile per-packet one-way delay: 54.722 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 14.72 Mbit/s

95th percentile per-packet one-way delay: 54.748 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.93 Mbit/s

95th percentile per-packet one-way delay: 54.750 ms

Loss rate: 0.00%

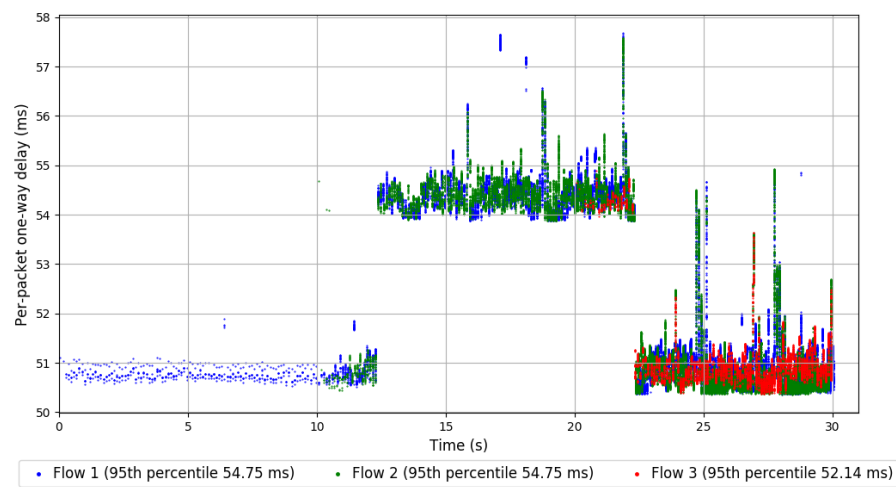
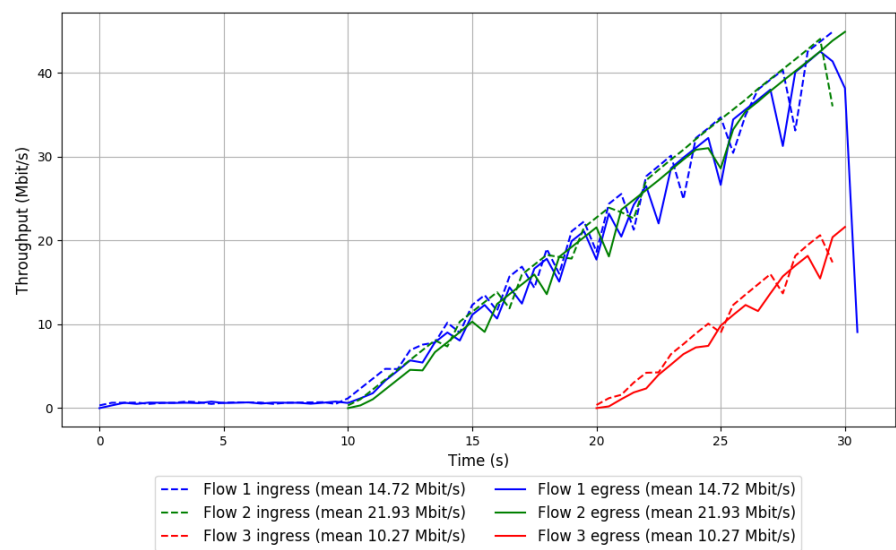
-- Flow 3:

Average throughput: 10.27 Mbit/s

95th percentile per-packet one-way delay: 52.140 ms

Loss rate: 0.00%

Run 2: Report of LEDBAT — Data Link

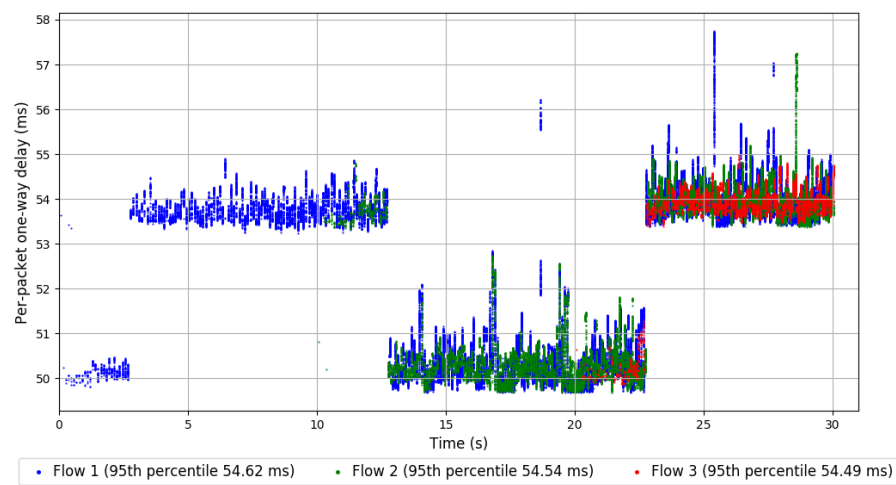
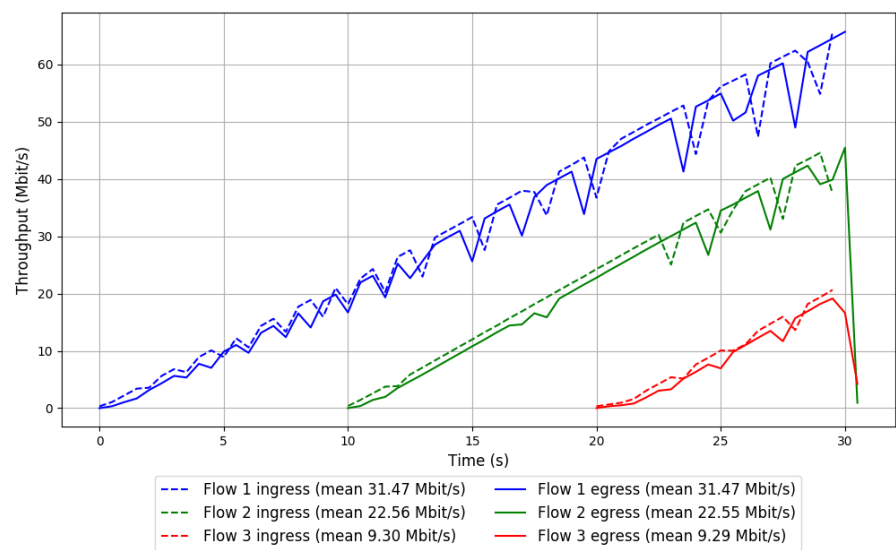


Run 3: Statistics of LEDBAT

Start at: 2018-05-26 03:35:04
End at: 2018-05-26 03:35:34
Local clock offset: -0.355 ms
Remote clock offset: -0.284 ms

Below is generated by plot.py at 2018-05-26 08:04:23
Datalink statistics
-- Total of 3 flows:
Average throughput: 49.54 Mbit/s
95th percentile per-packet one-way delay: 54.582 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.47 Mbit/s
95th percentile per-packet one-way delay: 54.622 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 22.55 Mbit/s
95th percentile per-packet one-way delay: 54.539 ms
Loss rate: 0.01%
-- Flow 3:
Average throughput: 9.29 Mbit/s
95th percentile per-packet one-way delay: 54.492 ms
Loss rate: 0.00%

Run 3: Report of LEDBAT — Data Link



Run 4: Statistics of LEDBAT

Start at: 2018-05-26 03:58:16

End at: 2018-05-26 03:58:46

Local clock offset: -0.628 ms

Remote clock offset: 0.166 ms

Below is generated by plot.py at 2018-05-26 08:04:23

Datalink statistics

-- Total of 3 flows:

Average throughput: 47.85 Mbit/s

95th percentile per-packet one-way delay: 55.360 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.21 Mbit/s

95th percentile per-packet one-way delay: 55.333 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 55.889 ms

Loss rate: 0.00%

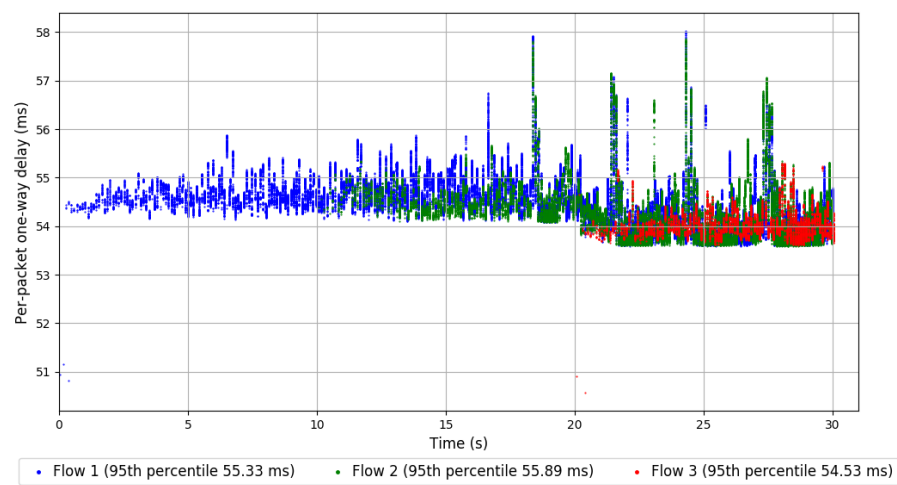
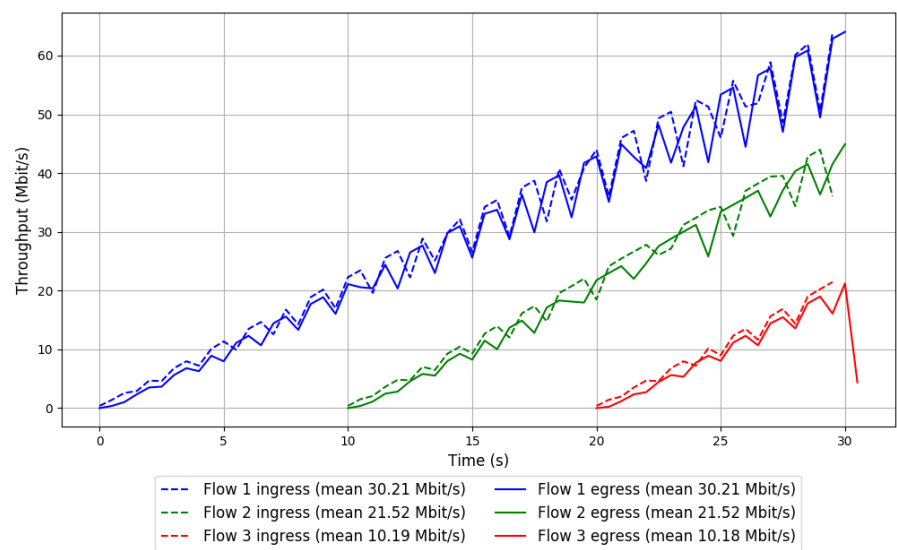
-- Flow 3:

Average throughput: 10.18 Mbit/s

95th percentile per-packet one-way delay: 54.526 ms

Loss rate: 0.00%

Run 4: Report of LEDBAT — Data Link

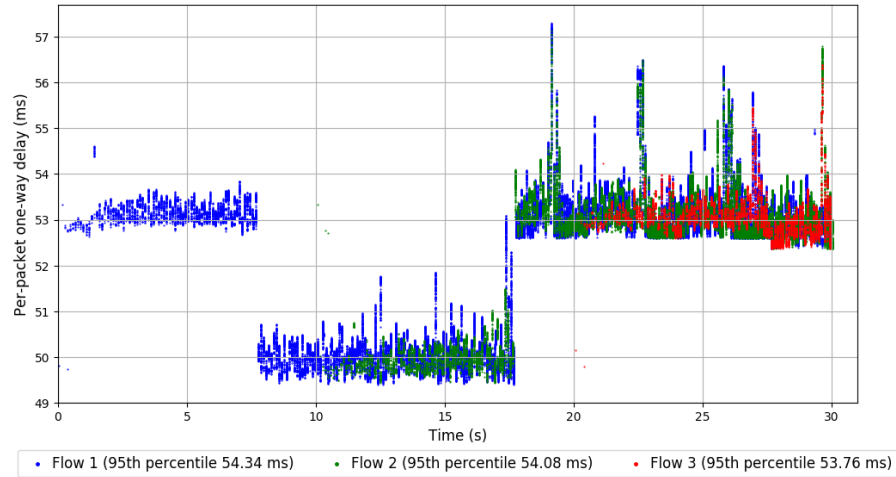
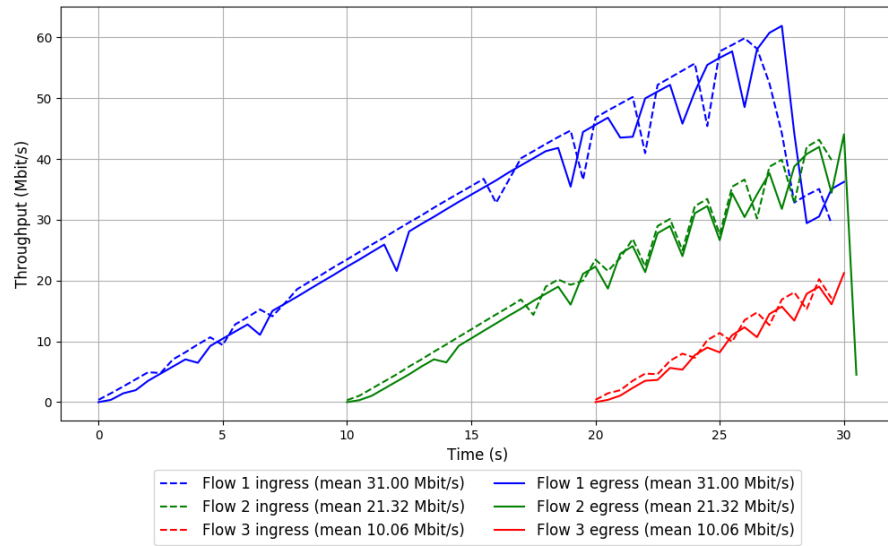


Run 5: Statistics of LEDBAT

Start at: 2018-05-26 04:21:09
End at: 2018-05-26 04:21:39
Local clock offset: 0.207 ms
Remote clock offset: -0.354 ms

Below is generated by plot.py at 2018-05-26 08:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.44 Mbit/s
95th percentile per-packet one-way delay: 54.185 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 31.00 Mbit/s
95th percentile per-packet one-way delay: 54.338 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 21.32 Mbit/s
95th percentile per-packet one-way delay: 54.076 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.06 Mbit/s
95th percentile per-packet one-way delay: 53.761 ms
Loss rate: 0.00%

Run 5: Report of LEDBAT — Data Link



Run 6: Statistics of LEDBAT

Start at: 2018-05-26 04:43:51

End at: 2018-05-26 04:44:21

Local clock offset: -0.048 ms

Remote clock offset: 0.263 ms

Below is generated by plot.py at 2018-05-26 08:04:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 50.22 Mbit/s

95th percentile per-packet one-way delay: 55.317 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 32.92 Mbit/s

95th percentile per-packet one-way delay: 55.266 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 20.76 Mbit/s

95th percentile per-packet one-way delay: 55.696 ms

Loss rate: 0.00%

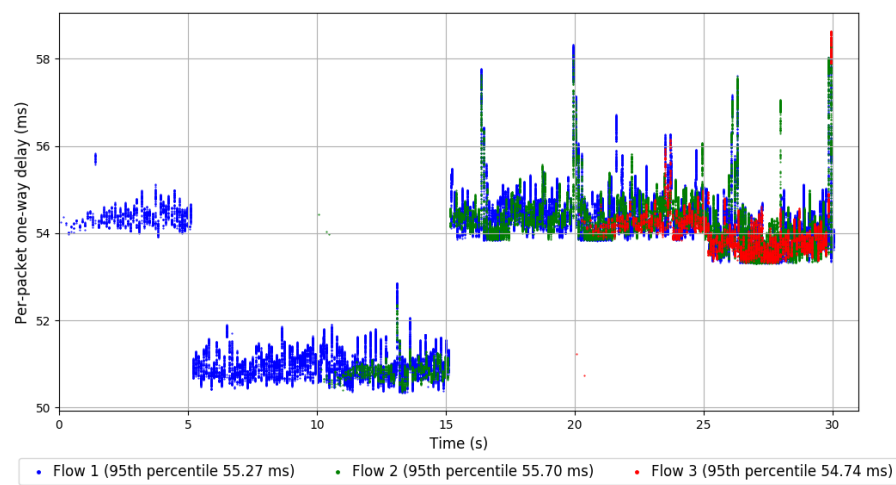
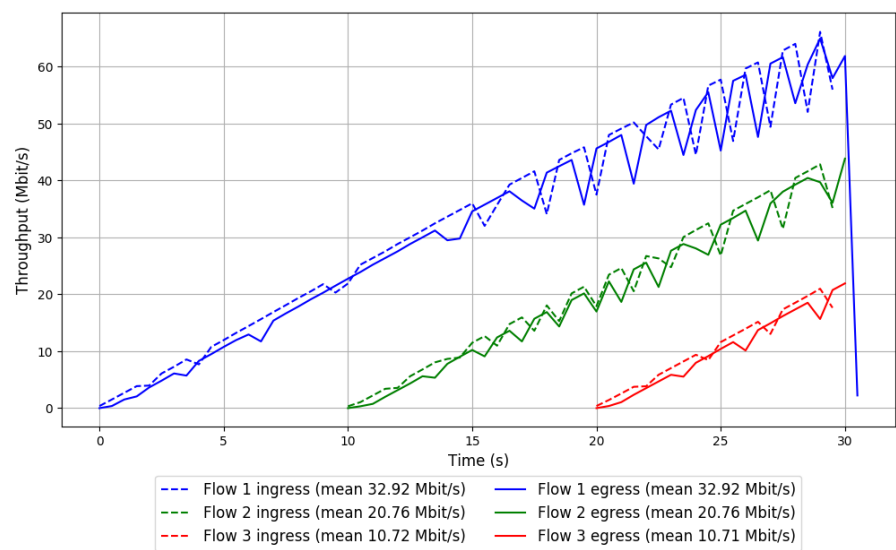
-- Flow 3:

Average throughput: 10.71 Mbit/s

95th percentile per-packet one-way delay: 54.745 ms

Loss rate: 0.00%

Run 6: Report of LEDBAT — Data Link

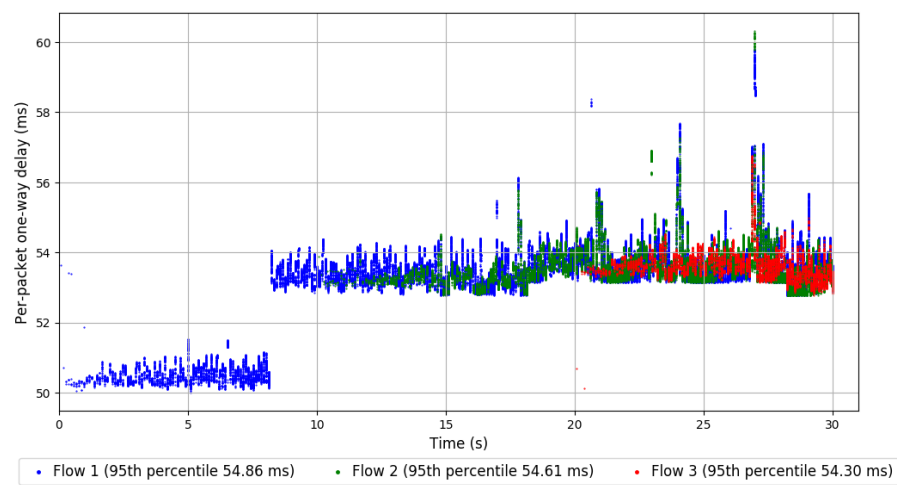
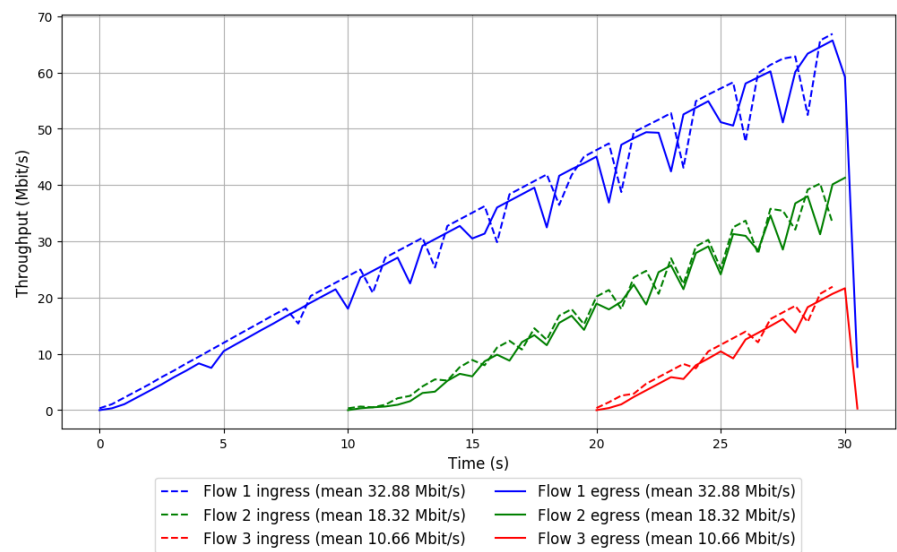


Run 7: Statistics of LEDBAT

Start at: 2018-05-26 05:06:58
End at: 2018-05-26 05:07:28
Local clock offset: 0.179 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-26 08:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 48.60 Mbit/s
95th percentile per-packet one-way delay: 54.763 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 32.88 Mbit/s
95th percentile per-packet one-way delay: 54.858 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 18.32 Mbit/s
95th percentile per-packet one-way delay: 54.612 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 10.66 Mbit/s
95th percentile per-packet one-way delay: 54.301 ms
Loss rate: 0.00%

Run 7: Report of LEDBAT — Data Link



Run 8: Statistics of LEDBAT

Start at: 2018-05-26 05:29:54

End at: 2018-05-26 05:30:24

Local clock offset: 0.157 ms

Remote clock offset: 0.348 ms

Below is generated by plot.py at 2018-05-26 08:04:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 49.10 Mbit/s

95th percentile per-packet one-way delay: 55.060 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 31.46 Mbit/s

95th percentile per-packet one-way delay: 54.941 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.44 Mbit/s

95th percentile per-packet one-way delay: 55.503 ms

Loss rate: 0.00%

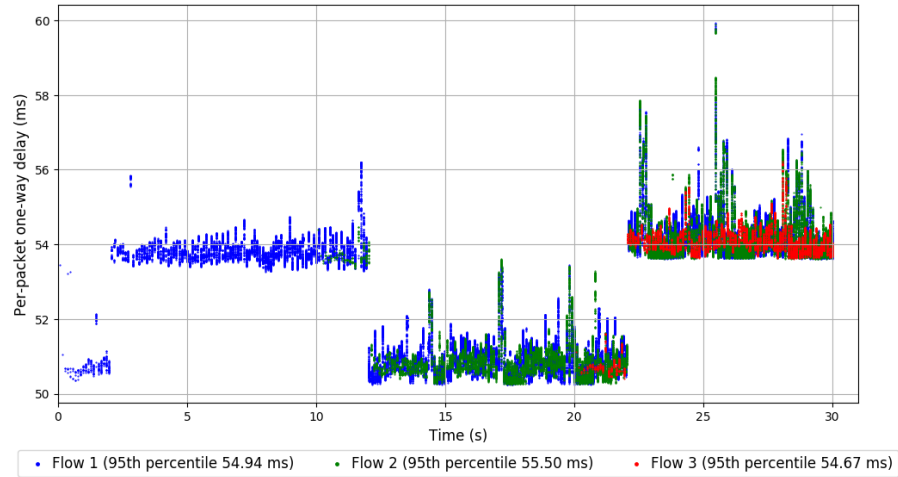
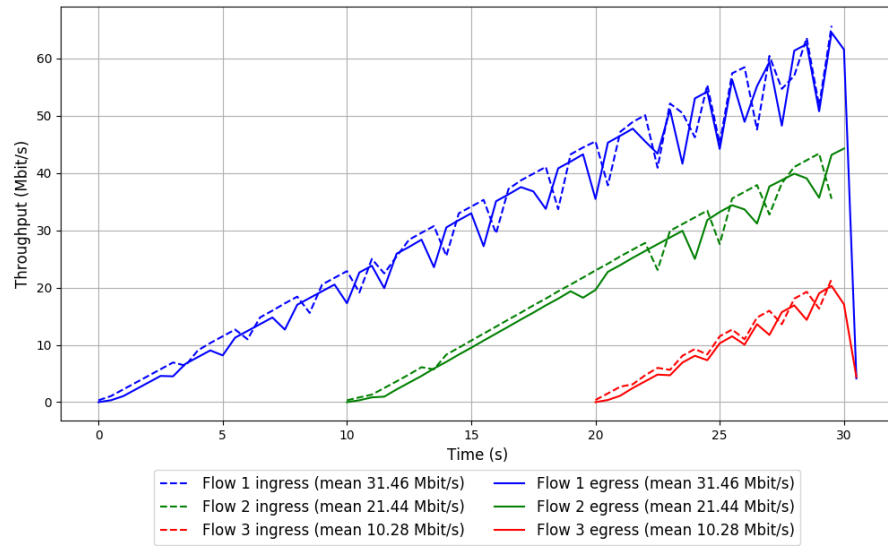
-- Flow 3:

Average throughput: 10.28 Mbit/s

95th percentile per-packet one-way delay: 54.669 ms

Loss rate: 0.00%

Run 8: Report of LEDBAT — Data Link

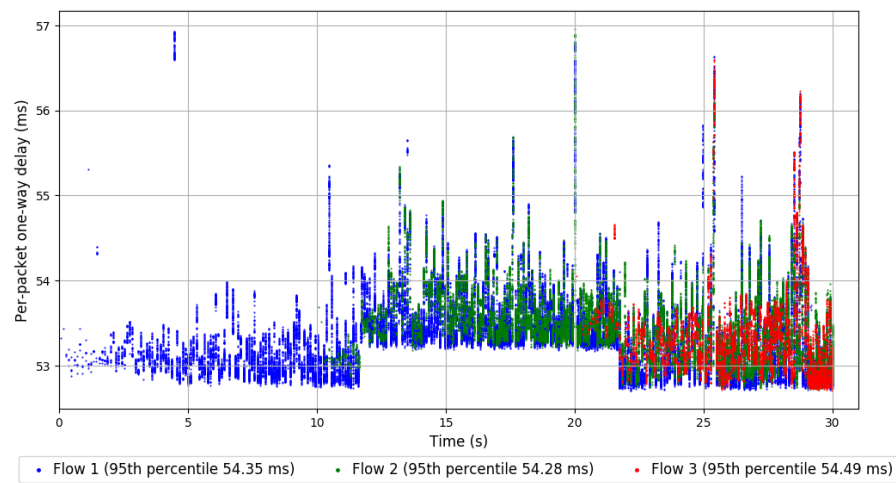
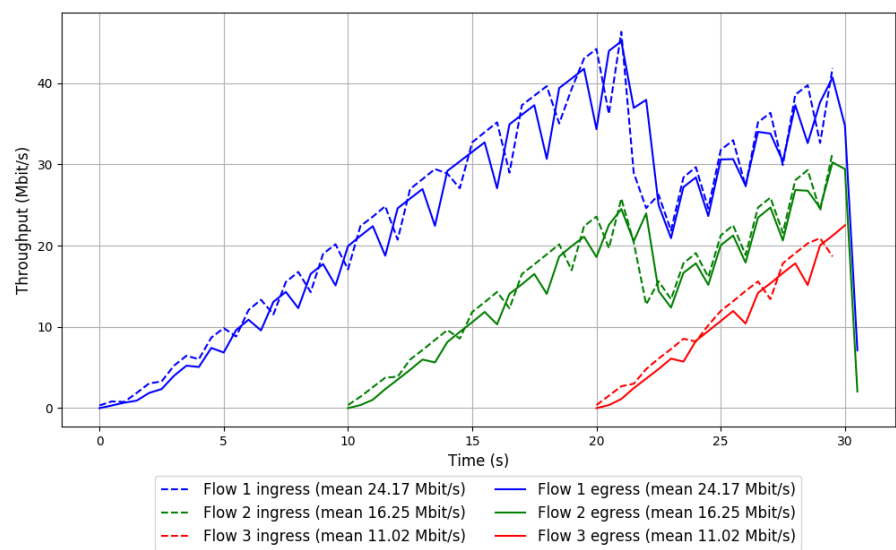


Run 9: Statistics of LEDBAT

Start at: 2018-05-26 05:52:55
End at: 2018-05-26 05:53:25
Local clock offset: 0.1 ms
Remote clock offset: -0.302 ms

Below is generated by plot.py at 2018-05-26 08:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.63 Mbit/s
95th percentile per-packet one-way delay: 54.343 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 24.17 Mbit/s
95th percentile per-packet one-way delay: 54.352 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 16.25 Mbit/s
95th percentile per-packet one-way delay: 54.282 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 11.02 Mbit/s
95th percentile per-packet one-way delay: 54.495 ms
Loss rate: 0.00%

Run 9: Report of LEDBAT — Data Link



Run 10: Statistics of LEDBAT

Start at: 2018-05-26 06:15:36

End at: 2018-05-26 06:16:06

Local clock offset: -0.465 ms

Remote clock offset: 0.137 ms

Below is generated by plot.py at 2018-05-26 08:04:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 46.77 Mbit/s

95th percentile per-packet one-way delay: 55.218 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 30.90 Mbit/s

95th percentile per-packet one-way delay: 55.176 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 21.52 Mbit/s

95th percentile per-packet one-way delay: 55.275 ms

Loss rate: 0.00%

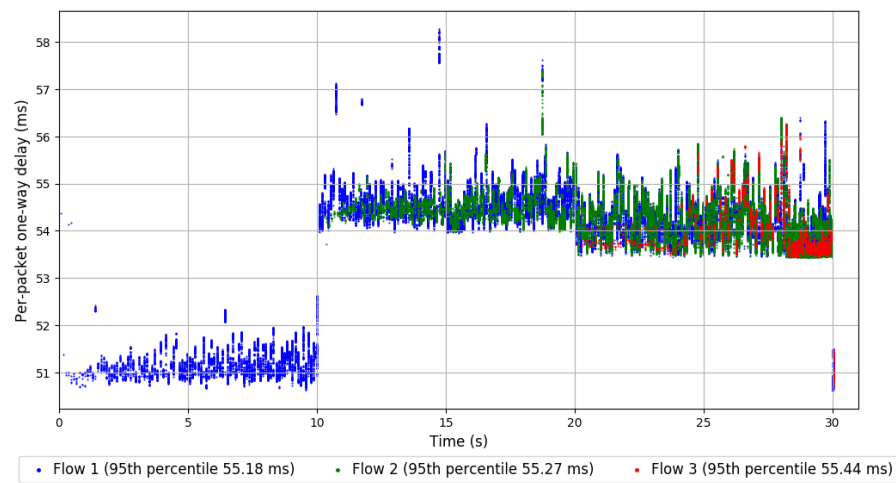
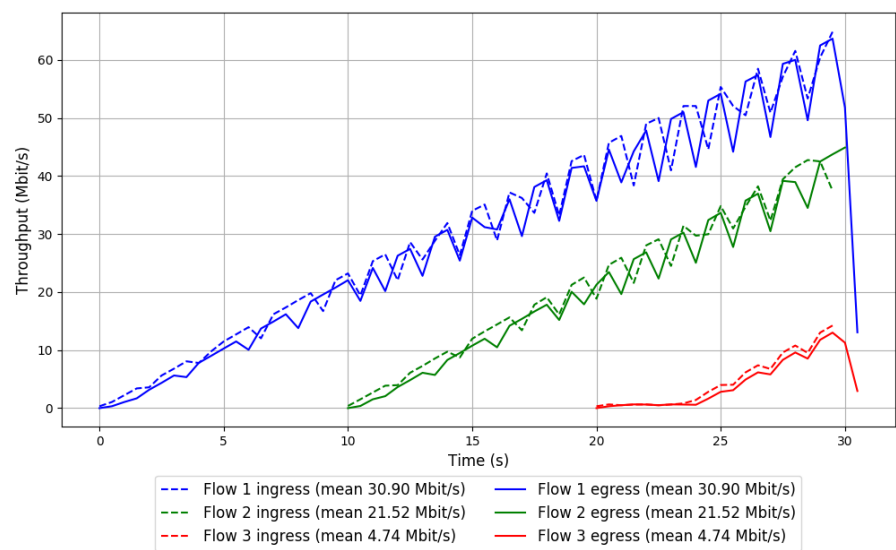
-- Flow 3:

Average throughput: 4.74 Mbit/s

95th percentile per-packet one-way delay: 55.440 ms

Loss rate: 0.00%

Run 10: Report of LEDBAT — Data Link

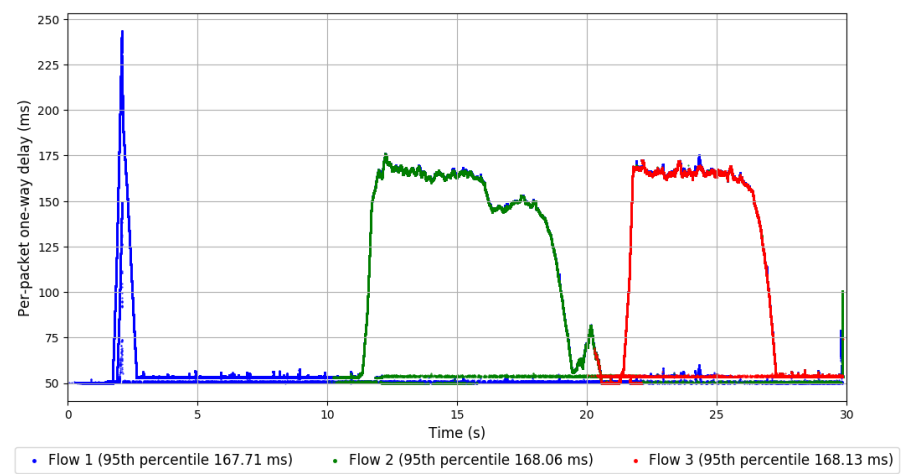
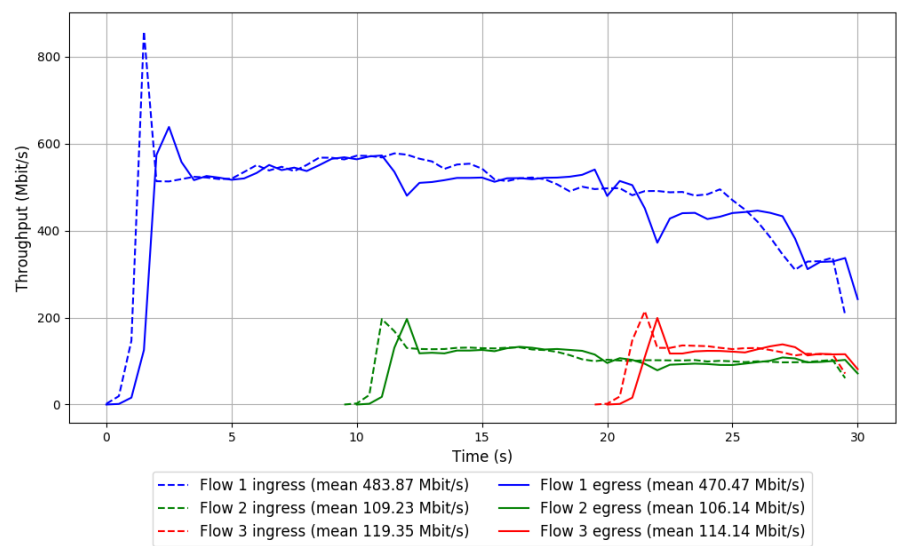


Run 1: Statistics of PCC-Allegro

Start at: 2018-05-26 02:57:14
End at: 2018-05-26 02:57:44
Local clock offset: -0.285 ms
Remote clock offset: -0.042 ms

Below is generated by plot.py at 2018-05-26 08:04:24
Datalink statistics
-- Total of 3 flows:
Average throughput: 578.60 Mbit/s
95th percentile per-packet one-way delay: 167.797 ms
Loss rate: 2.87%
-- Flow 1:
Average throughput: 470.47 Mbit/s
95th percentile per-packet one-way delay: 167.713 ms
Loss rate: 2.76%
-- Flow 2:
Average throughput: 106.14 Mbit/s
95th percentile per-packet one-way delay: 168.058 ms
Loss rate: 2.82%
-- Flow 3:
Average throughput: 114.14 Mbit/s
95th percentile per-packet one-way delay: 168.133 ms
Loss rate: 4.28%

Run 1: Report of PCC-Allegro — Data Link



Run 2: Statistics of PCC-Allegro

Start at: 2018-05-26 03:20:19

End at: 2018-05-26 03:20:49

Local clock offset: -0.75 ms

Remote clock offset: 0.152 ms

Below is generated by plot.py at 2018-05-26 08:04:24

Datalink statistics

-- Total of 3 flows:

Average throughput: 599.13 Mbit/s

95th percentile per-packet one-way delay: 166.049 ms

Loss rate: 2.95%

-- Flow 1:

Average throughput: 492.87 Mbit/s

95th percentile per-packet one-way delay: 166.014 ms

Loss rate: 2.70%

-- Flow 2:

Average throughput: 152.50 Mbit/s

95th percentile per-packet one-way delay: 166.119 ms

Loss rate: 4.00%

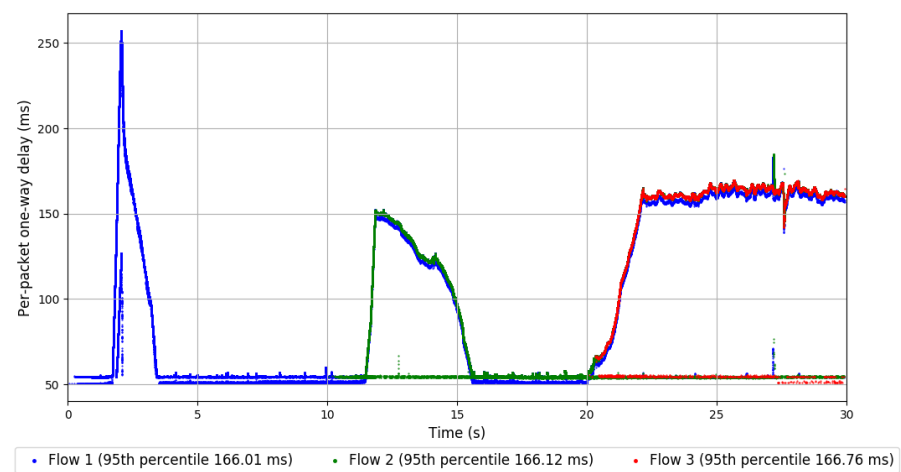
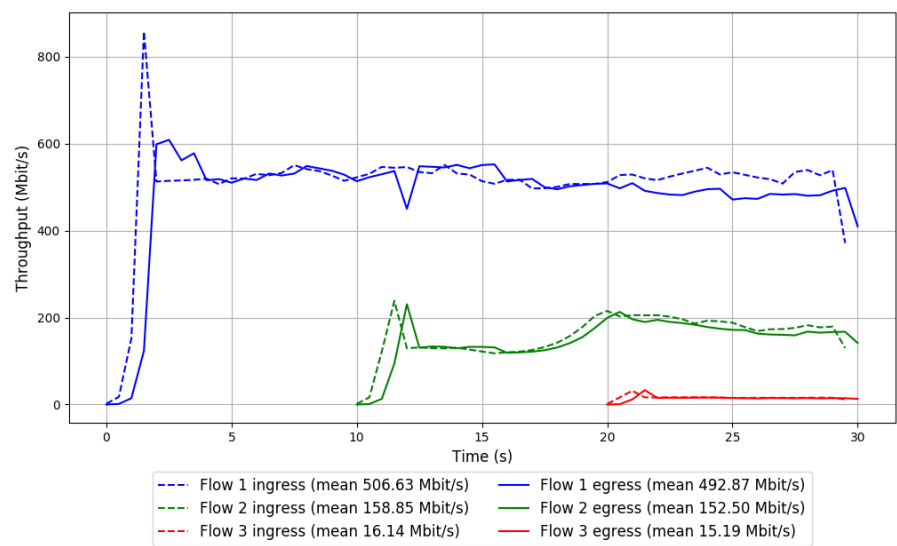
-- Flow 3:

Average throughput: 15.19 Mbit/s

95th percentile per-packet one-way delay: 166.764 ms

Loss rate: 5.85%

Run 2: Report of PCC-Allegro — Data Link

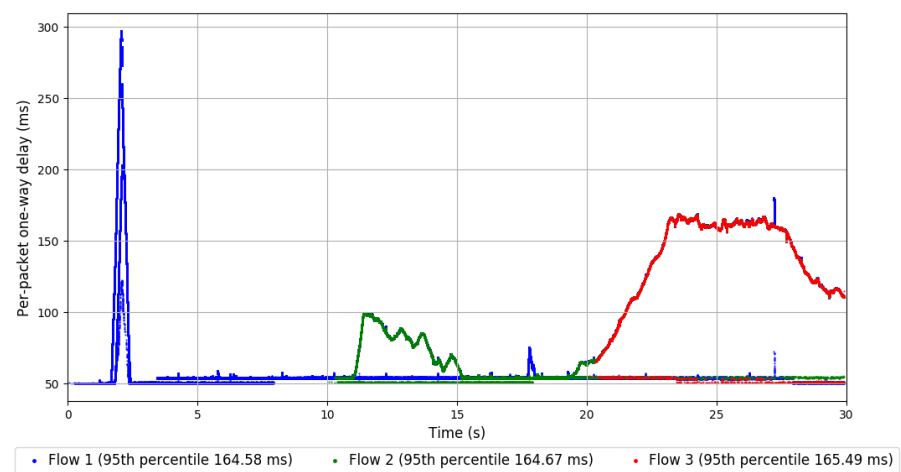
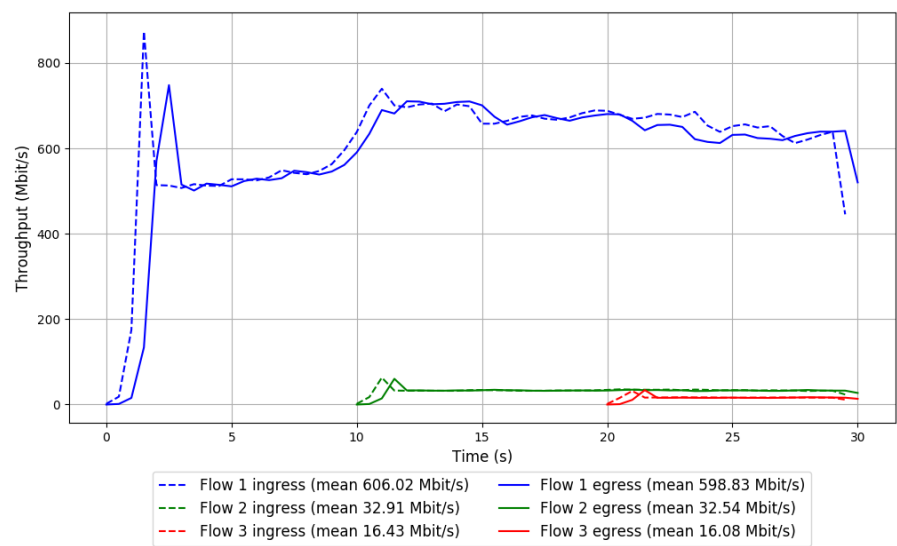


Run 3: Statistics of PCC-Allegro

Start at: 2018-05-26 03:43:53
End at: 2018-05-26 03:44:23
Local clock offset: -0.229 ms
Remote clock offset: -0.095 ms

Below is generated by plot.py at 2018-05-26 08:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 625.66 Mbit/s
95th percentile per-packet one-way delay: 164.610 ms
Loss rate: 1.18%
-- Flow 1:
Average throughput: 598.83 Mbit/s
95th percentile per-packet one-way delay: 164.584 ms
Loss rate: 1.17%
-- Flow 2:
Average throughput: 32.54 Mbit/s
95th percentile per-packet one-way delay: 164.670 ms
Loss rate: 1.09%
-- Flow 3:
Average throughput: 16.08 Mbit/s
95th percentile per-packet one-way delay: 165.489 ms
Loss rate: 2.21%

Run 3: Report of PCC-Allegro — Data Link

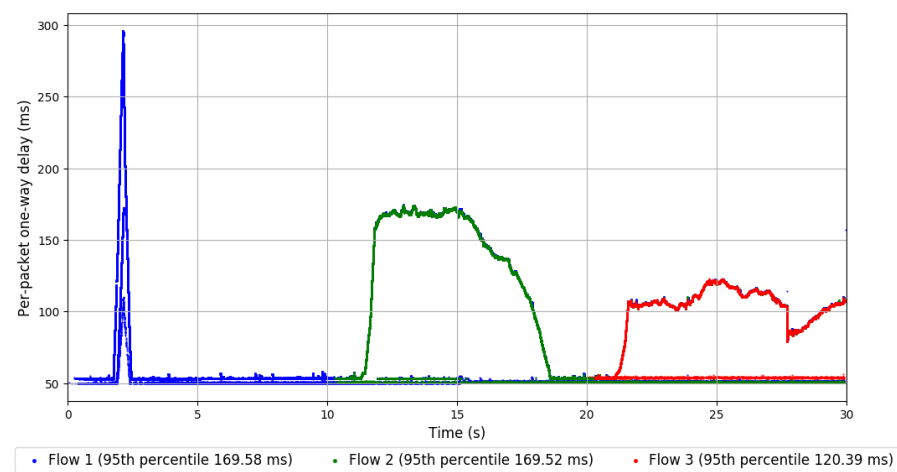
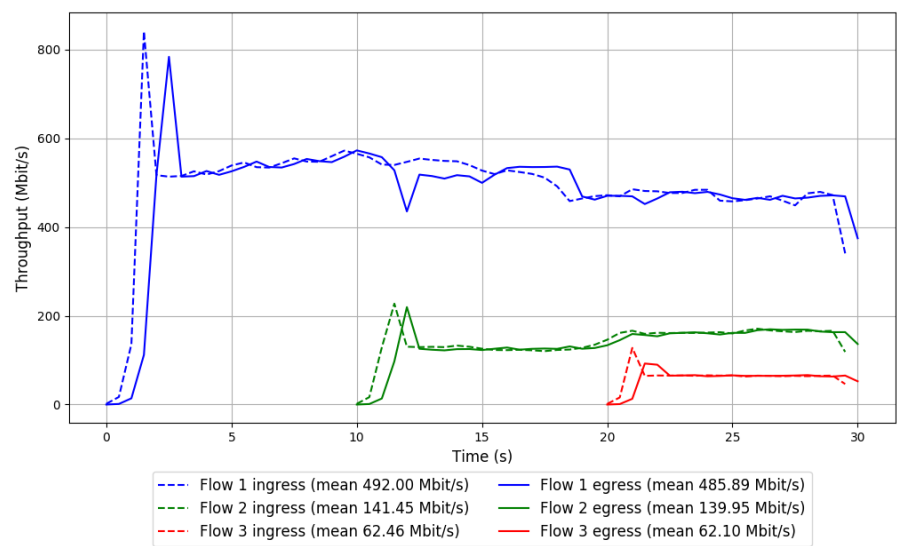


Run 4: Statistics of PCC-Allegro

Start at: 2018-05-26 04:06:31
End at: 2018-05-26 04:07:01
Local clock offset: -0.513 ms
Remote clock offset: -0.241 ms

Below is generated by plot.py at 2018-05-26 08:04:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 599.26 Mbit/s
95th percentile per-packet one-way delay: 169.470 ms
Loss rate: 1.08%
-- Flow 1:
Average throughput: 485.89 Mbit/s
95th percentile per-packet one-way delay: 169.584 ms
Loss rate: 1.11%
-- Flow 2:
Average throughput: 139.95 Mbit/s
95th percentile per-packet one-way delay: 169.524 ms
Loss rate: 1.03%
-- Flow 3:
Average throughput: 62.10 Mbit/s
95th percentile per-packet one-way delay: 120.388 ms
Loss rate: 0.56%

Run 4: Report of PCC-Allegro — Data Link

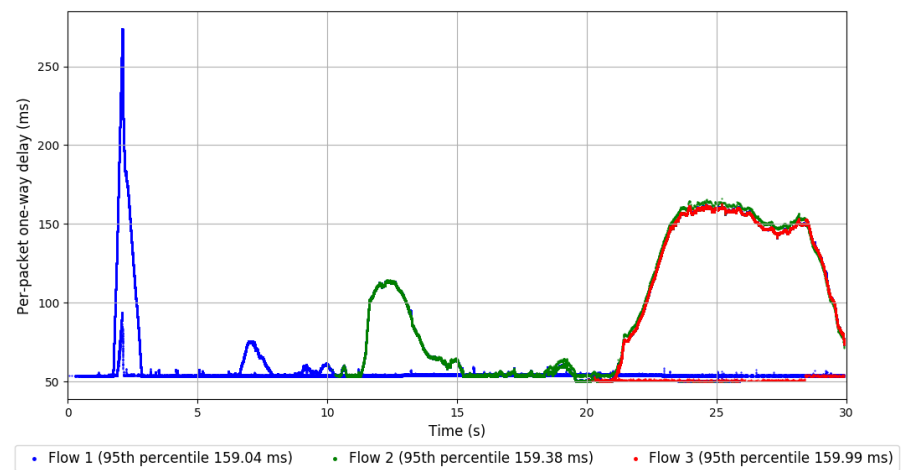
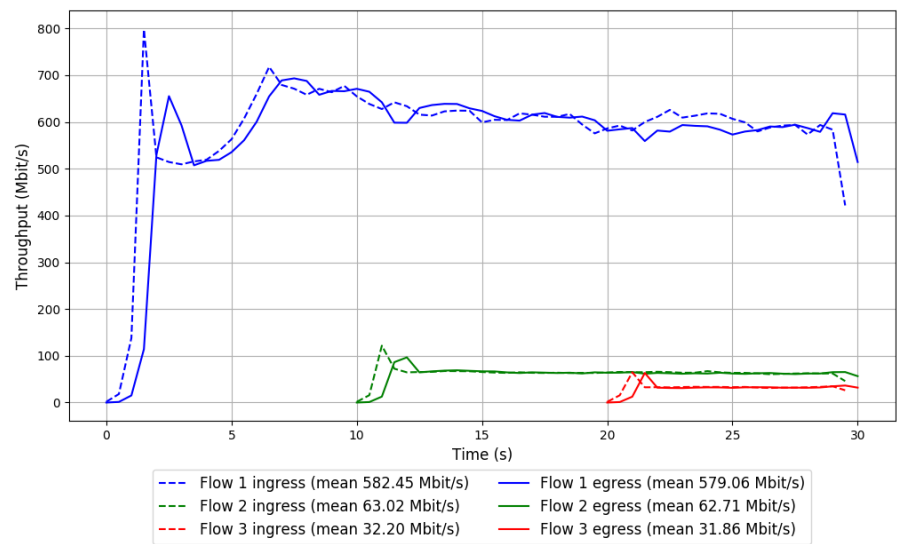


Run 5: Statistics of PCC-Allegro

Start at: 2018-05-26 04:29:18
End at: 2018-05-26 04:29:48
Local clock offset: 0.044 ms
Remote clock offset: -0.049 ms

Below is generated by plot.py at 2018-05-26 08:05:06
Datalink statistics
-- Total of 3 flows:
Average throughput: 631.21 Mbit/s
95th percentile per-packet one-way delay: 159.152 ms
Loss rate: 0.58%
-- Flow 1:
Average throughput: 579.06 Mbit/s
95th percentile per-packet one-way delay: 159.039 ms
Loss rate: 0.58%
-- Flow 2:
Average throughput: 62.71 Mbit/s
95th percentile per-packet one-way delay: 159.385 ms
Loss rate: 0.52%
-- Flow 3:
Average throughput: 31.86 Mbit/s
95th percentile per-packet one-way delay: 159.985 ms
Loss rate: 1.03%

Run 5: Report of PCC-Allegro — Data Link

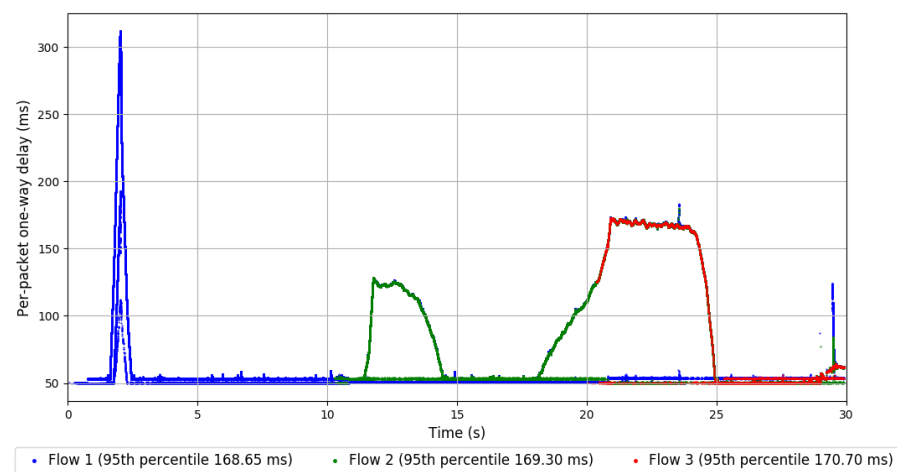
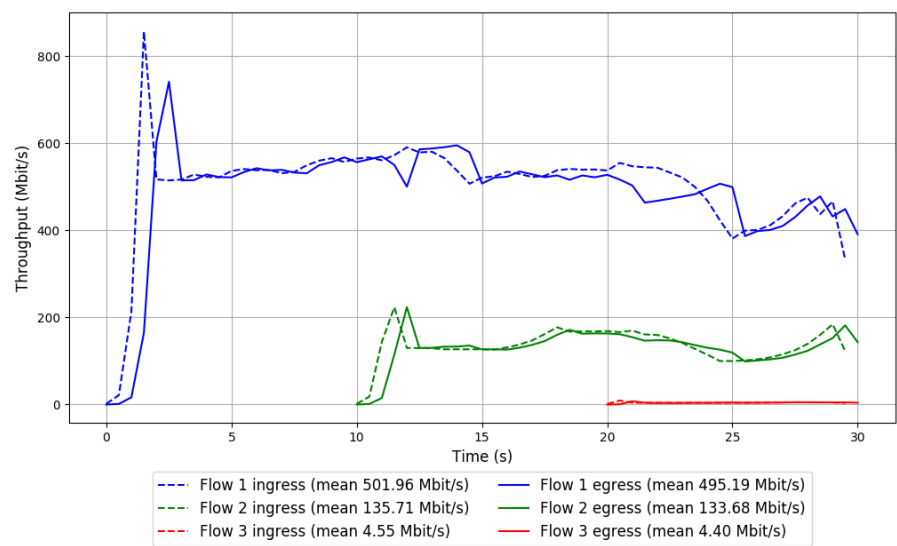


Run 6: Statistics of PCC-Allegro

Start at: 2018-05-26 04:52:15
End at: 2018-05-26 04:52:46
Local clock offset: 0.16 ms
Remote clock offset: -0.328 ms

Below is generated by plot.py at 2018-05-26 08:05:22
Datalink statistics
-- Total of 3 flows:
Average throughput: 585.47 Mbit/s
95th percentile per-packet one-way delay: 168.762 ms
Loss rate: 1.38%
-- Flow 1:
Average throughput: 495.19 Mbit/s
95th percentile per-packet one-way delay: 168.652 ms
Loss rate: 1.35%
-- Flow 2:
Average throughput: 133.68 Mbit/s
95th percentile per-packet one-way delay: 169.299 ms
Loss rate: 1.50%
-- Flow 3:
Average throughput: 4.40 Mbit/s
95th percentile per-packet one-way delay: 170.696 ms
Loss rate: 3.17%

Run 6: Report of PCC-Allegro — Data Link



Run 7: Statistics of PCC-Allegro

Start at: 2018-05-26 05:15:21

End at: 2018-05-26 05:15:51

Local clock offset: -0.013 ms

Remote clock offset: 0.127 ms

Below is generated by plot.py at 2018-05-26 08:13:47

Datalink statistics

-- Total of 3 flows:

Average throughput: 623.75 Mbit/s

95th percentile per-packet one-way delay: 164.944 ms

Loss rate: 1.81%

-- Flow 1:

Average throughput: 589.06 Mbit/s

95th percentile per-packet one-way delay: 164.734 ms

Loss rate: 1.78%

-- Flow 2:

Average throughput: 37.20 Mbit/s

95th percentile per-packet one-way delay: 166.243 ms

Loss rate: 1.93%

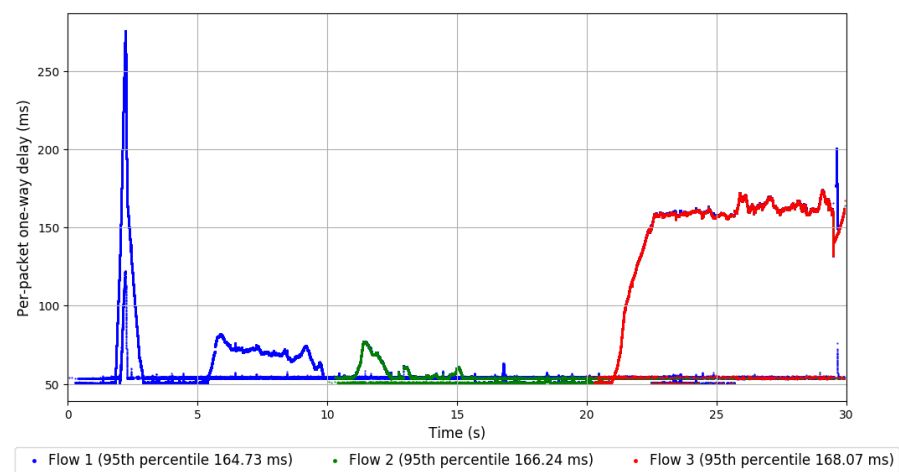
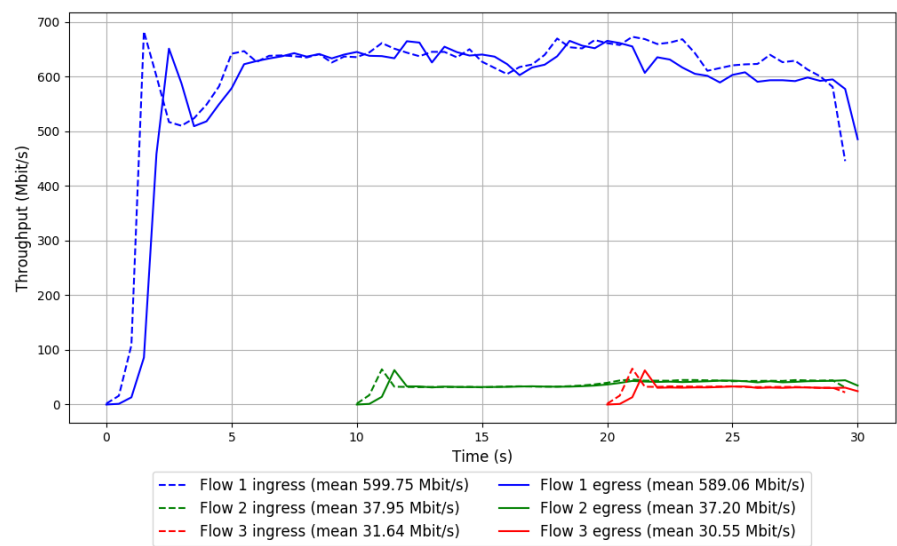
-- Flow 3:

Average throughput: 30.55 Mbit/s

95th percentile per-packet one-way delay: 168.070 ms

Loss rate: 3.39%

Run 7: Report of PCC-Allegro — Data Link



Run 8: Statistics of PCC-Allegro

Start at: 2018-05-26 05:38:16

End at: 2018-05-26 05:38:46

Local clock offset: -0.194 ms

Remote clock offset: 0.386 ms

Below is generated by plot.py at 2018-05-26 08:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 598.43 Mbit/s

95th percentile per-packet one-way delay: 176.710 ms

Loss rate: 1.24%

-- Flow 1:

Average throughput: 591.19 Mbit/s

95th percentile per-packet one-way delay: 176.732 ms

Loss rate: 1.25%

-- Flow 2:

Average throughput: 2.42 Mbit/s

95th percentile per-packet one-way delay: 173.228 ms

Loss rate: 0.65%

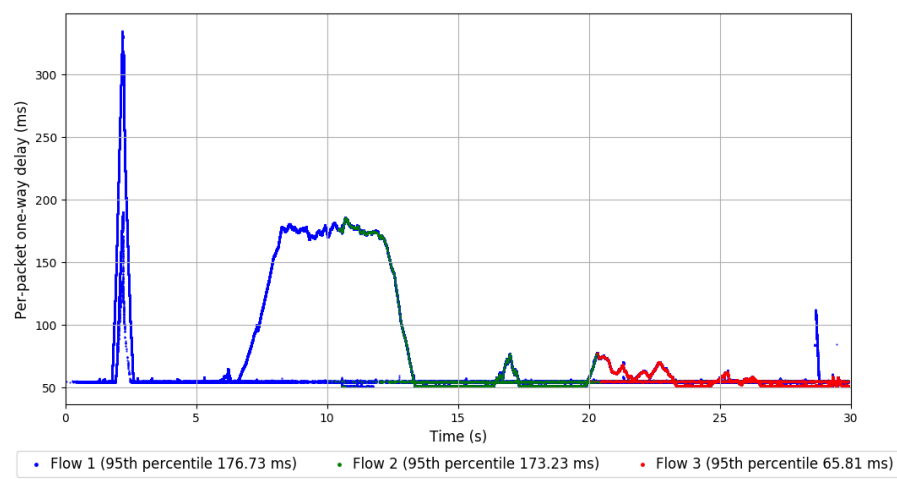
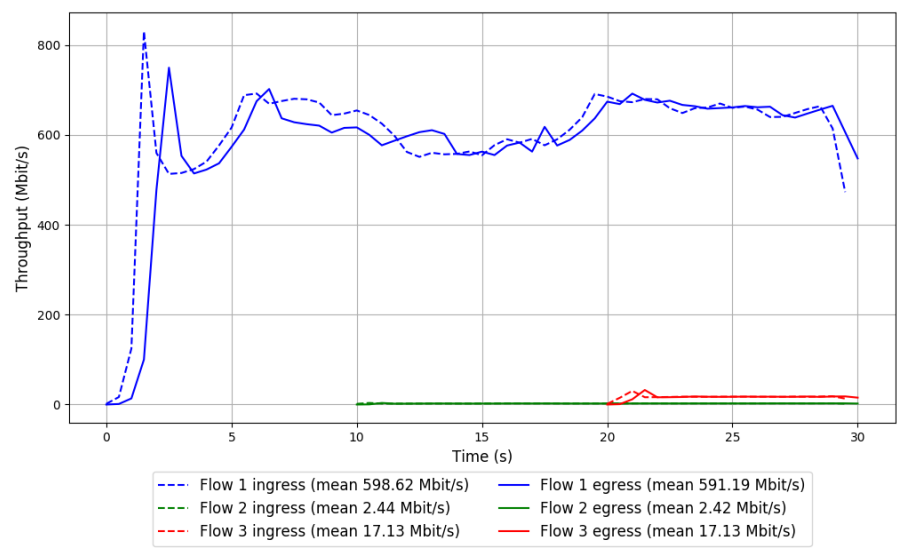
-- Flow 3:

Average throughput: 17.13 Mbit/s

95th percentile per-packet one-way delay: 65.811 ms

Loss rate: 0.00%

Run 8: Report of PCC-Allegro — Data Link



Run 9: Statistics of PCC-Allegro

Start at: 2018-05-26 06:00:56

End at: 2018-05-26 06:01:26

Local clock offset: 0.04 ms

Remote clock offset: 0.09 ms

Below is generated by plot.py at 2018-05-26 08:13:58

Datalink statistics

-- Total of 3 flows:

Average throughput: 593.15 Mbit/s

95th percentile per-packet one-way delay: 164.169 ms

Loss rate: 1.39%

-- Flow 1:

Average throughput: 473.18 Mbit/s

95th percentile per-packet one-way delay: 164.367 ms

Loss rate: 1.34%

-- Flow 2:

Average throughput: 119.84 Mbit/s

95th percentile per-packet one-way delay: 164.679 ms

Loss rate: 1.24%

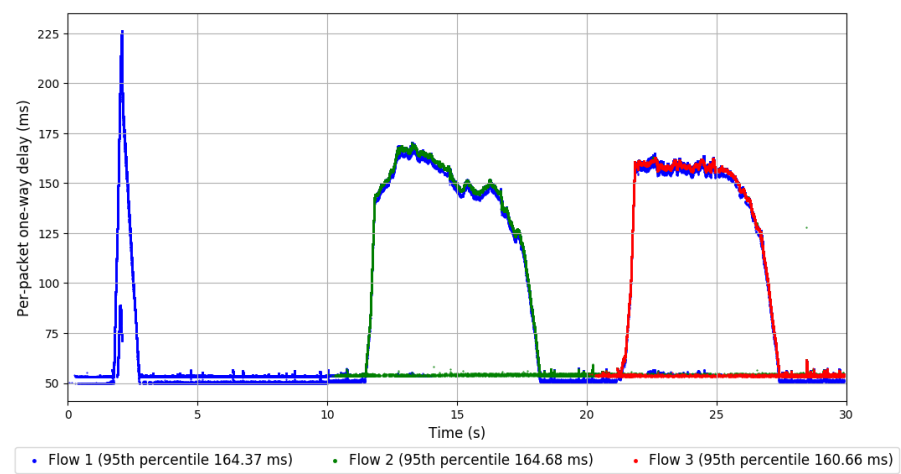
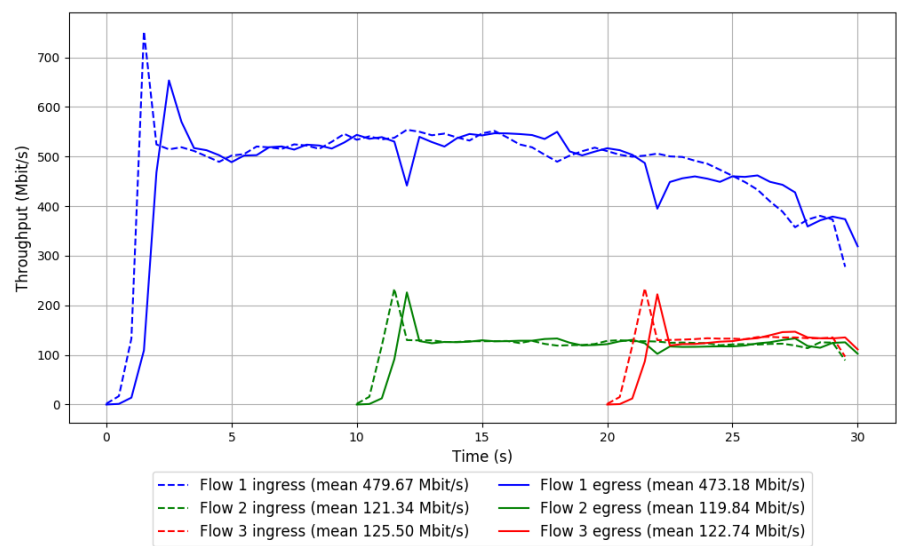
-- Flow 3:

Average throughput: 122.74 Mbit/s

95th percentile per-packet one-way delay: 160.659 ms

Loss rate: 2.20%

Run 9: Report of PCC-Allegro — Data Link



Run 10: Statistics of PCC-Allegro

Start at: 2018-05-26 06:24:08

End at: 2018-05-26 06:24:38

Local clock offset: 0.372 ms

Remote clock offset: 0.265 ms

Below is generated by plot.py at 2018-05-26 08:15:34

Datalink statistics

-- Total of 3 flows:

Average throughput: 635.62 Mbit/s

95th percentile per-packet one-way delay: 161.918 ms

Loss rate: 3.91%

-- Flow 1:

Average throughput: 552.03 Mbit/s

95th percentile per-packet one-way delay: 161.959 ms

Loss rate: 3.84%

-- Flow 2:

Average throughput: 70.35 Mbit/s

95th percentile per-packet one-way delay: 161.290 ms

Loss rate: 3.35%

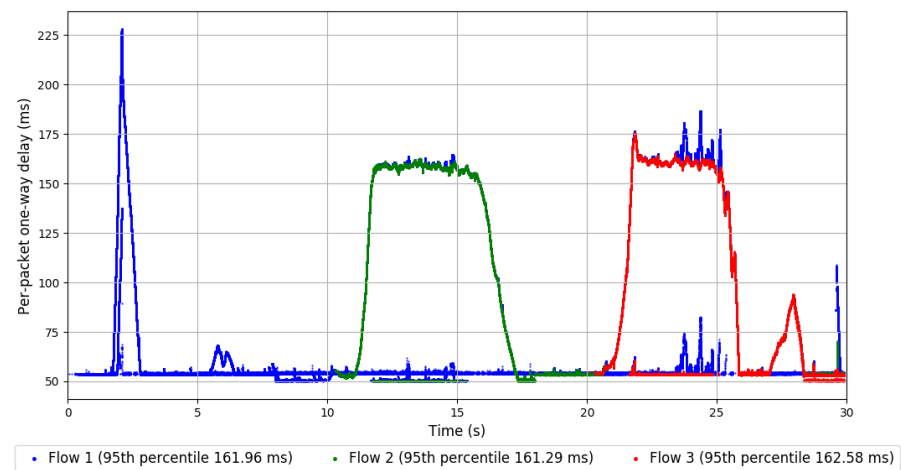
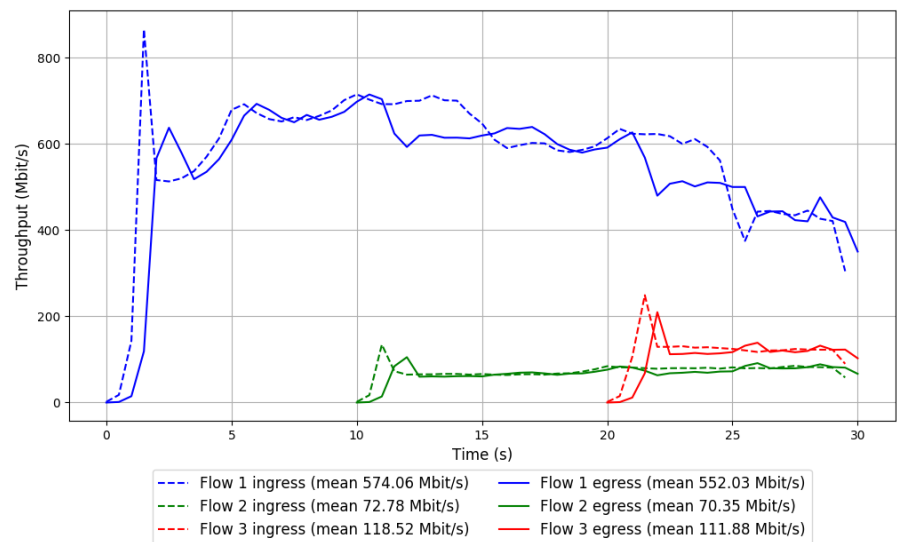
-- Flow 3:

Average throughput: 111.88 Mbit/s

95th percentile per-packet one-way delay: 162.583 ms

Loss rate: 5.62%

Run 10: Report of PCC-Allegro — Data Link

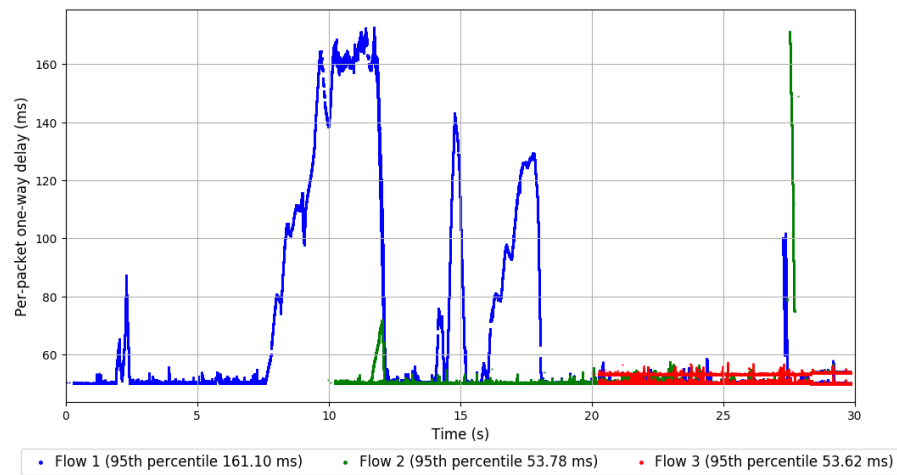
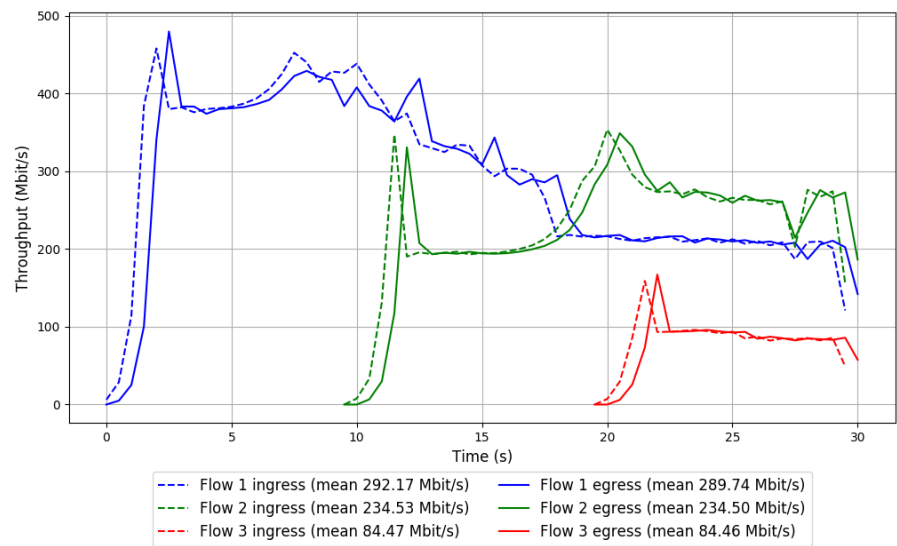


```
Run 1: Statistics of PCC-Expr

Start at: 2018-05-26 02:49:58
End at: 2018-05-26 02:50:28
Local clock offset: -0.526 ms
Remote clock offset: -0.227 ms

# Below is generated by plot.py at 2018-05-26 08:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 474.07 Mbit/s
95th percentile per-packet one-way delay: 157.270 ms
Loss rate: 0.51%
-- Flow 1:
Average throughput: 289.74 Mbit/s
95th percentile per-packet one-way delay: 161.100 ms
Loss rate: 0.83%
-- Flow 2:
Average throughput: 234.50 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 53.621 ms
Loss rate: 0.00%
```

Run 1: Report of PCC-Expr — Data Link

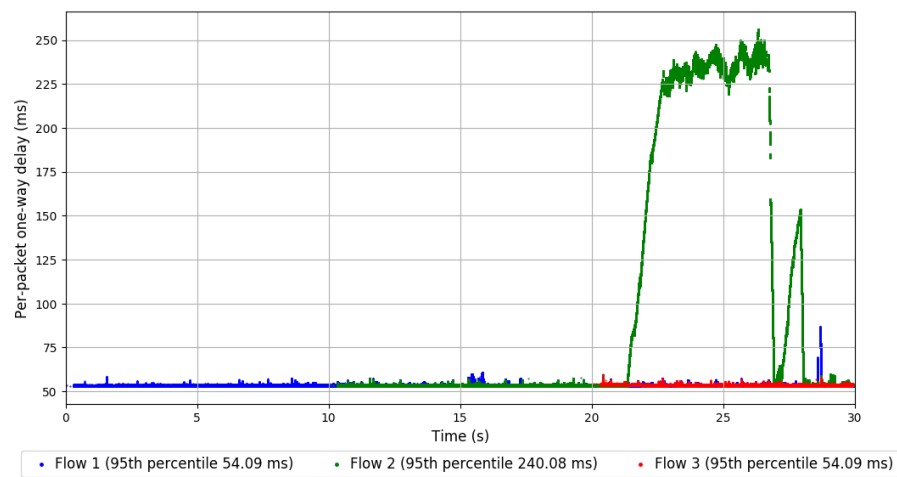
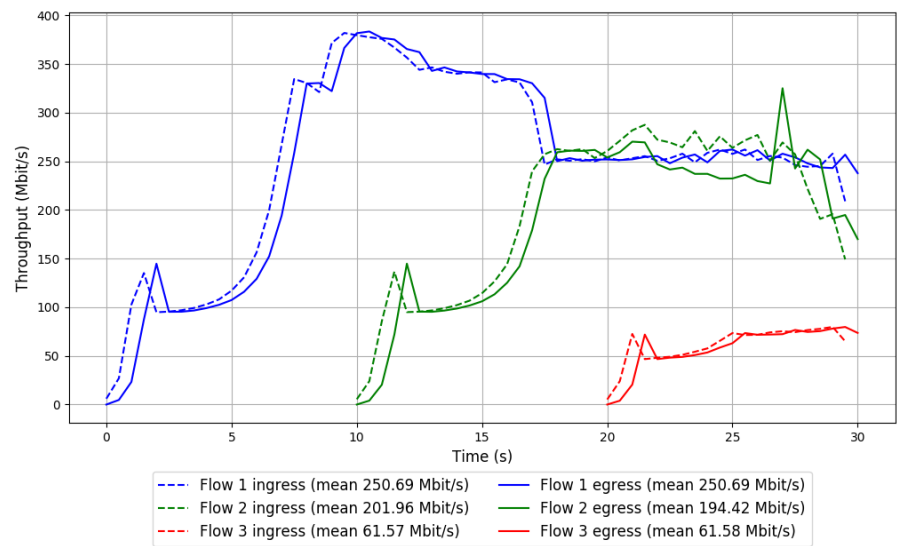


```
Run 2: Statistics of PCC-Expr

Start at: 2018-05-26 03:12:54
End at: 2018-05-26 03:13:24
Local clock offset: -0.691 ms
Remote clock offset: -0.303 ms

# Below is generated by plot.py at 2018-05-26 08:19:19
# Datalink statistics
-- Total of 3 flows:
Average throughput: 400.27 Mbit/s
95th percentile per-packet one-way delay: 232.483 ms
Loss rate: 1.24%
-- Flow 1:
Average throughput: 250.69 Mbit/s
95th percentile per-packet one-way delay: 54.087 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 194.42 Mbit/s
95th percentile per-packet one-way delay: 240.077 ms
Loss rate: 3.73%
-- Flow 3:
Average throughput: 61.58 Mbit/s
95th percentile per-packet one-way delay: 54.089 ms
Loss rate: 0.00%
```

Run 2: Report of PCC-Expr — Data Link

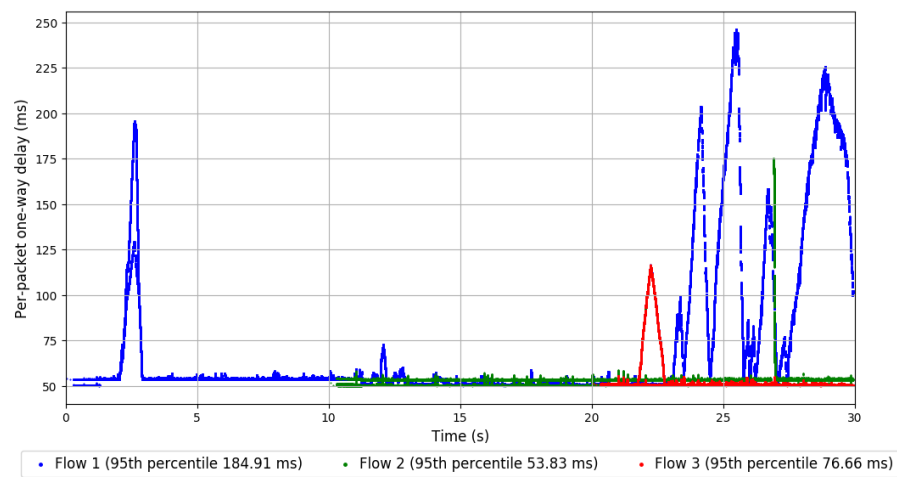
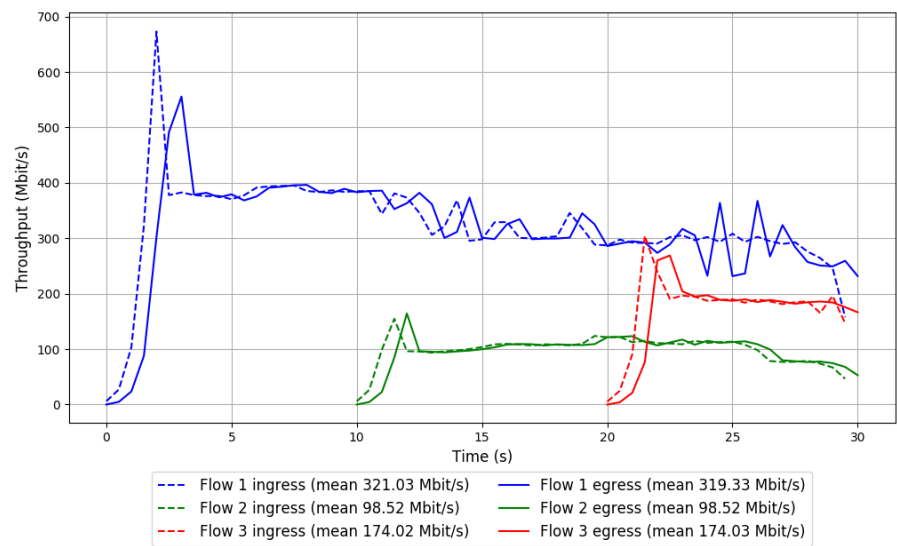


Run 3: Statistics of PCC-Expr

Start at: 2018-05-26 03:36:15
End at: 2018-05-26 03:36:45
Local clock offset: -0.551 ms
Remote clock offset: -0.054 ms

Below is generated by plot.py at 2018-05-26 08:19:19
Datalink statistics
-- Total of 3 flows:
Average throughput: 442.25 Mbit/s
95th percentile per-packet one-way delay: 168.071 ms
Loss rate: 0.39%
-- Flow 1:
Average throughput: 319.33 Mbit/s
95th percentile per-packet one-way delay: 184.915 ms
Loss rate: 0.55%
-- Flow 2:
Average throughput: 98.52 Mbit/s
95th percentile per-packet one-way delay: 53.825 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 174.03 Mbit/s
95th percentile per-packet one-way delay: 76.657 ms
Loss rate: 0.00%

Run 3: Report of PCC-Expr — Data Link



Run 4: Statistics of PCC-Expr

Start at: 2018-05-26 03:59:27

End at: 2018-05-26 03:59:57

Local clock offset: -0.729 ms

Remote clock offset: 0.041 ms

Below is generated by plot.py at 2018-05-26 08:19:19

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.12 Mbit/s

95th percentile per-packet one-way delay: 202.790 ms

Loss rate: 1.80%

-- Flow 1:

Average throughput: 171.84 Mbit/s

95th percentile per-packet one-way delay: 56.541 ms

Loss rate: 0.01%

-- Flow 2:

Average throughput: 216.41 Mbit/s

95th percentile per-packet one-way delay: 210.399 ms

Loss rate: 4.49%

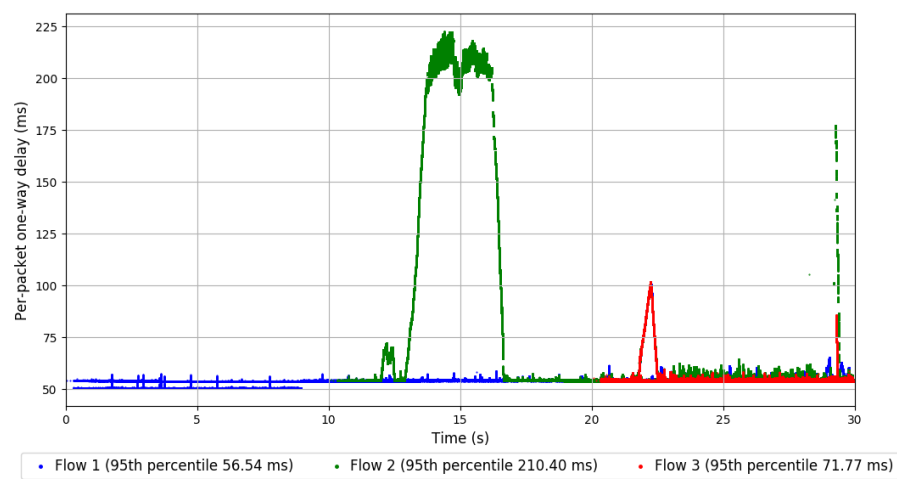
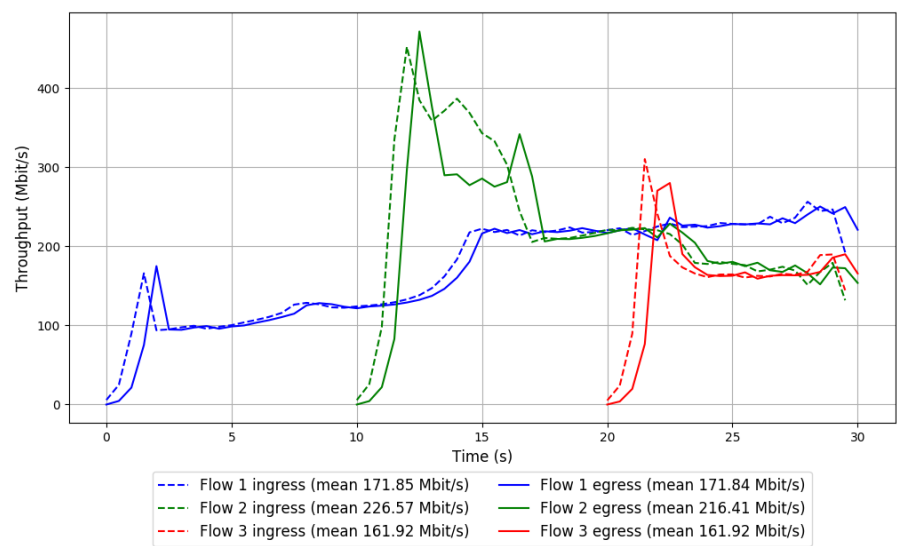
-- Flow 3:

Average throughput: 161.92 Mbit/s

95th percentile per-packet one-way delay: 71.769 ms

Loss rate: 0.01%

Run 4: Report of PCC-Expr — Data Link



Run 5: Statistics of PCC-Expr

Start at: 2018-05-26 04:22:20

End at: 2018-05-26 04:22:50

Local clock offset: 0.002 ms

Remote clock offset: 0.087 ms

Below is generated by plot.py at 2018-05-26 08:29:44

Datalink statistics

-- Total of 3 flows:

Average throughput: 417.18 Mbit/s

95th percentile per-packet one-way delay: 277.404 ms

Loss rate: 8.10%

-- Flow 1:

Average throughput: 377.30 Mbit/s

95th percentile per-packet one-way delay: 278.037 ms

Loss rate: 8.15%

-- Flow 2:

Average throughput: 57.97 Mbit/s

95th percentile per-packet one-way delay: 168.740 ms

Loss rate: 7.63%

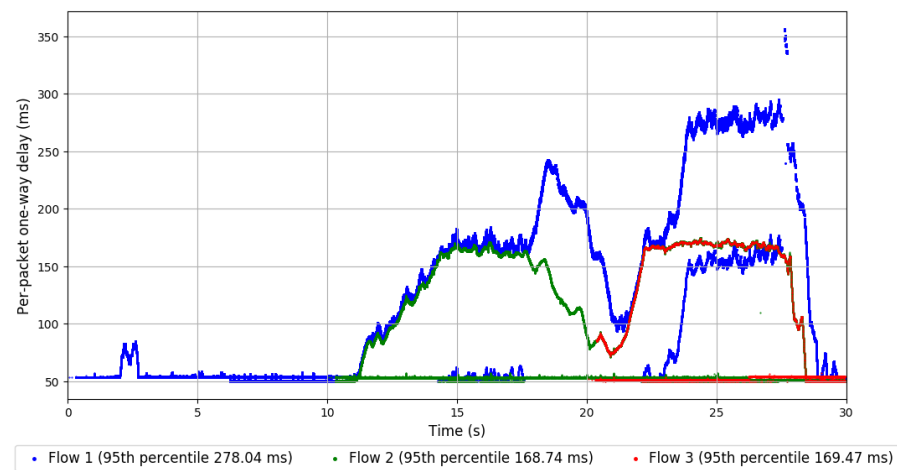
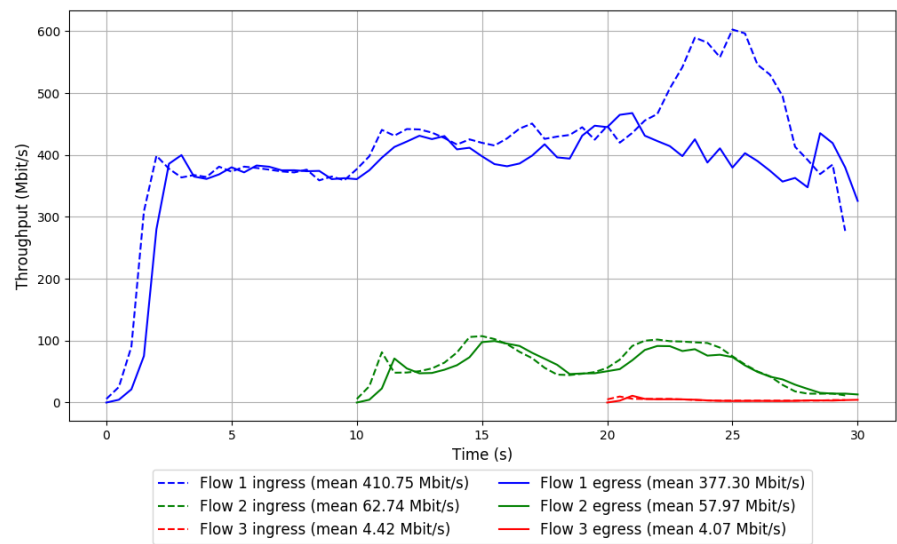
-- Flow 3:

Average throughput: 4.07 Mbit/s

95th percentile per-packet one-way delay: 169.472 ms

Loss rate: 7.89%

Run 5: Report of PCC-Expr — Data Link



Run 6: Statistics of PCC-Expr

Start at: 2018-05-26 04:45:03

End at: 2018-05-26 04:45:33

Local clock offset: 0.162 ms

Remote clock offset: 0.036 ms

Below is generated by plot.py at 2018-05-26 08:32:53

Datalink statistics

-- Total of 3 flows:

Average throughput: 500.36 Mbit/s

95th percentile per-packet one-way delay: 271.526 ms

Loss rate: 11.63%

-- Flow 1:

Average throughput: 420.63 Mbit/s

95th percentile per-packet one-way delay: 275.444 ms

Loss rate: 12.58%

-- Flow 2:

Average throughput: 118.22 Mbit/s

95th percentile per-packet one-way delay: 186.258 ms

Loss rate: 6.24%

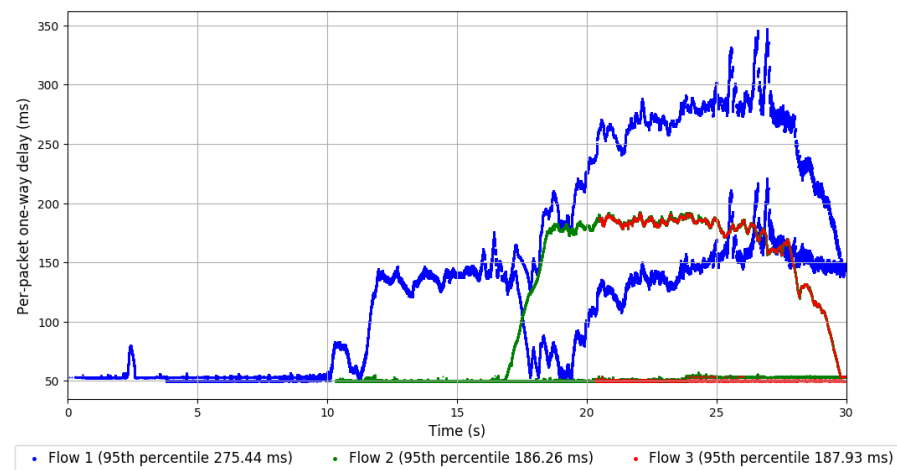
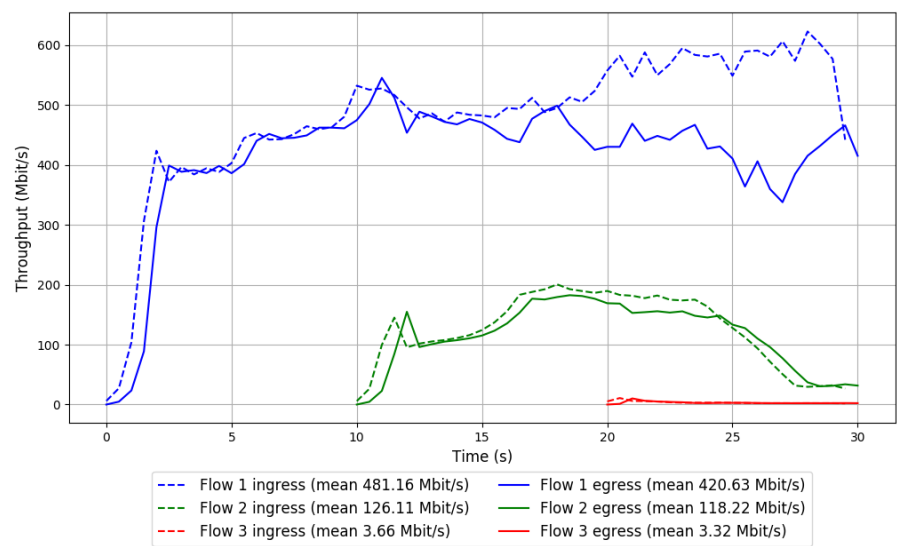
-- Flow 3:

Average throughput: 3.32 Mbit/s

95th percentile per-packet one-way delay: 187.930 ms

Loss rate: 9.14%

Run 6: Report of PCC-Expr — Data Link

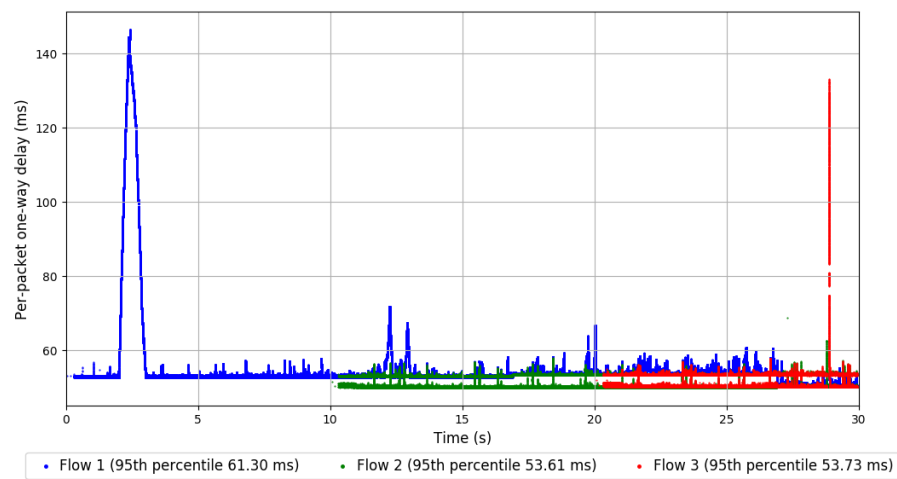
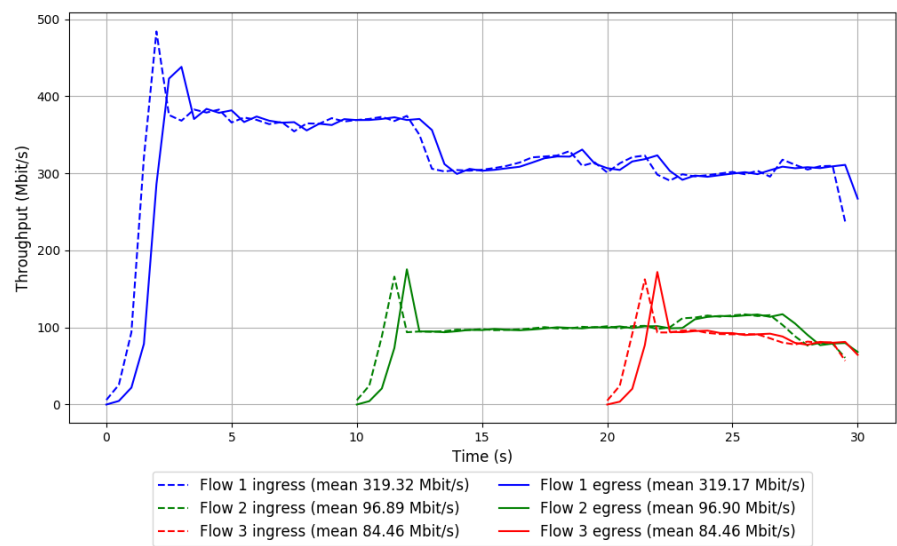


Run 7: Statistics of PCC-Expr

Start at: 2018-05-26 05:08:09
End at: 2018-05-26 05:08:39
Local clock offset: 0.148 ms
Remote clock offset: -0.086 ms

Below is generated by plot.py at 2018-05-26 08:32:53
Datalink statistics
-- Total of 3 flows:
Average throughput: 411.45 Mbit/s
95th percentile per-packet one-way delay: 58.128 ms
Loss rate: 0.04%
-- Flow 1:
Average throughput: 319.17 Mbit/s
95th percentile per-packet one-way delay: 61.298 ms
Loss rate: 0.06%
-- Flow 2:
Average throughput: 96.90 Mbit/s
95th percentile per-packet one-way delay: 53.611 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 84.46 Mbit/s
95th percentile per-packet one-way delay: 53.727 ms
Loss rate: 0.00%

Run 7: Report of PCC-Expr — Data Link



Run 8: Statistics of PCC-Expr

Start at: 2018-05-26 05:31:06

End at: 2018-05-26 05:31:36

Local clock offset: -0.059 ms

Remote clock offset: 0.101 ms

Below is generated by plot.py at 2018-05-26 08:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 511.86 Mbit/s

95th percentile per-packet one-way delay: 167.423 ms

Loss rate: 7.02%

-- Flow 1:

Average throughput: 370.22 Mbit/s

95th percentile per-packet one-way delay: 167.629 ms

Loss rate: 5.99%

-- Flow 2:

Average throughput: 208.83 Mbit/s

95th percentile per-packet one-way delay: 167.285 ms

Loss rate: 9.69%

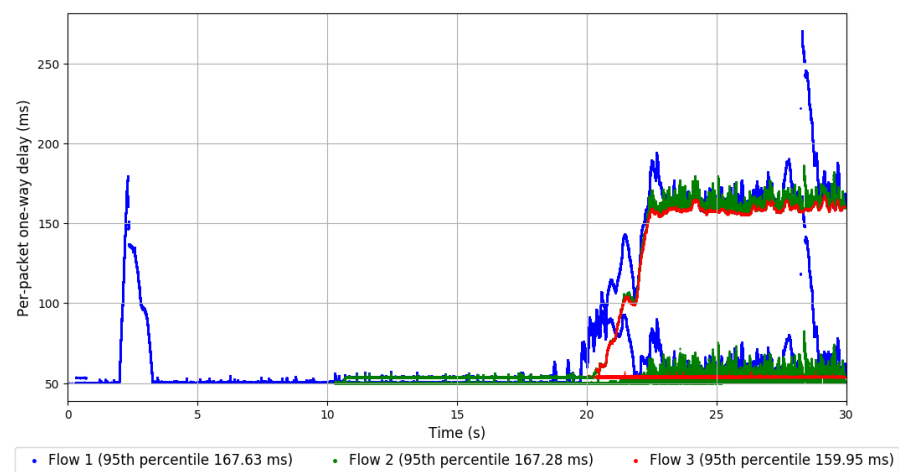
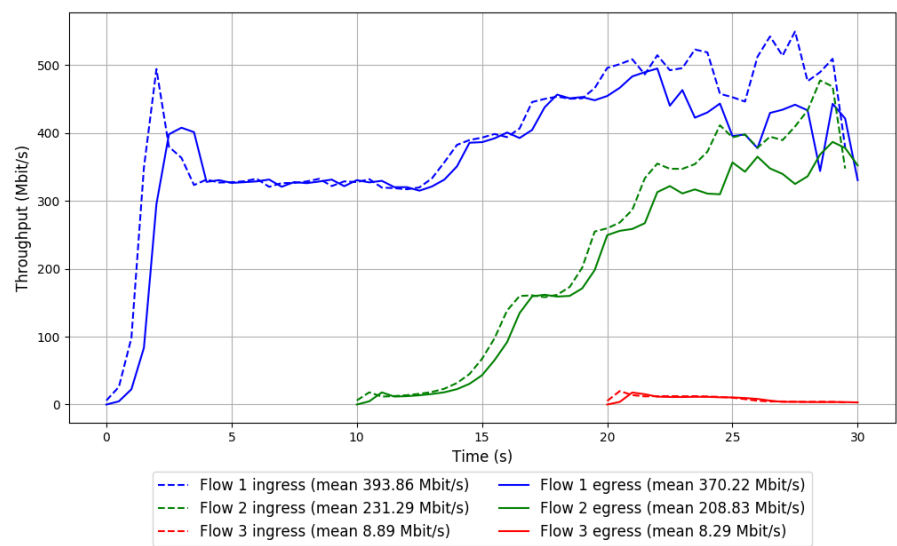
-- Flow 3:

Average throughput: 8.29 Mbit/s

95th percentile per-packet one-way delay: 159.947 ms

Loss rate: 6.77%

Run 8: Report of PCC-Expr — Data Link



Run 9: Statistics of PCC-Expr

Start at: 2018-05-26 05:54:05

End at: 2018-05-26 05:54:35

Local clock offset: -0.286 ms

Remote clock offset: 0.027 ms

Below is generated by plot.py at 2018-05-26 08:34:12

Datalink statistics

-- Total of 3 flows:

Average throughput: 250.77 Mbit/s

95th percentile per-packet one-way delay: 55.620 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 104.25 Mbit/s

95th percentile per-packet one-way delay: 54.039 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 121.67 Mbit/s

95th percentile per-packet one-way delay: 54.081 ms

Loss rate: 0.00%

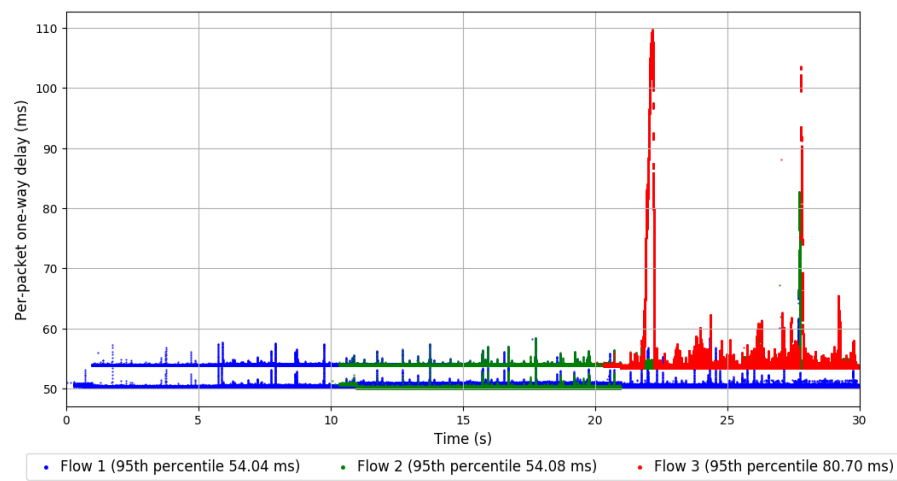
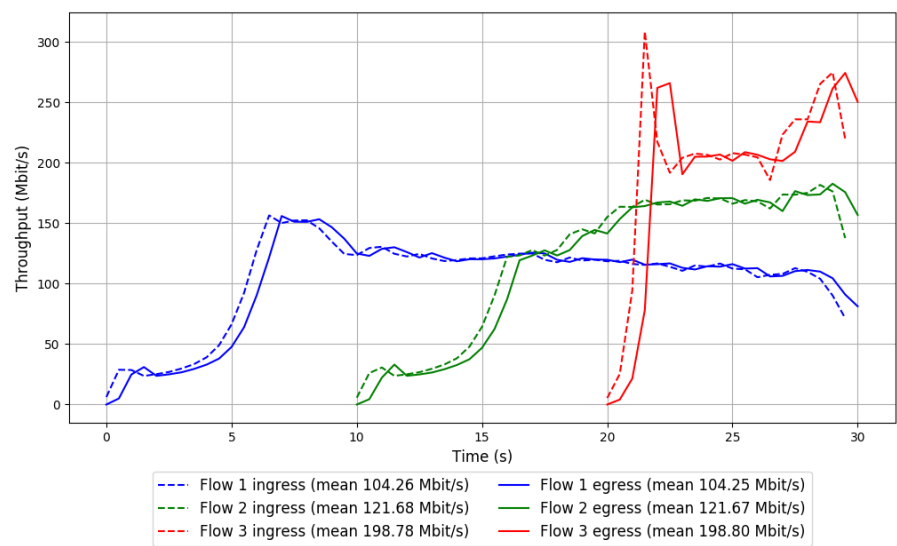
-- Flow 3:

Average throughput: 198.80 Mbit/s

95th percentile per-packet one-way delay: 80.699 ms

Loss rate: 0.00%

Run 9: Report of PCC-Expr — Data Link



Run 10: Statistics of PCC-Expr

Start at: 2018-05-26 06:16:48

End at: 2018-05-26 06:17:18

Local clock offset: 0.319 ms

Remote clock offset: 0.132 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 486.34 Mbit/s

95th percentile per-packet one-way delay: 183.878 ms

Loss rate: 9.69%

-- Flow 1:

Average throughput: 343.56 Mbit/s

95th percentile per-packet one-way delay: 187.331 ms

Loss rate: 9.29%

-- Flow 2:

Average throughput: 179.80 Mbit/s

95th percentile per-packet one-way delay: 183.525 ms

Loss rate: 9.57%

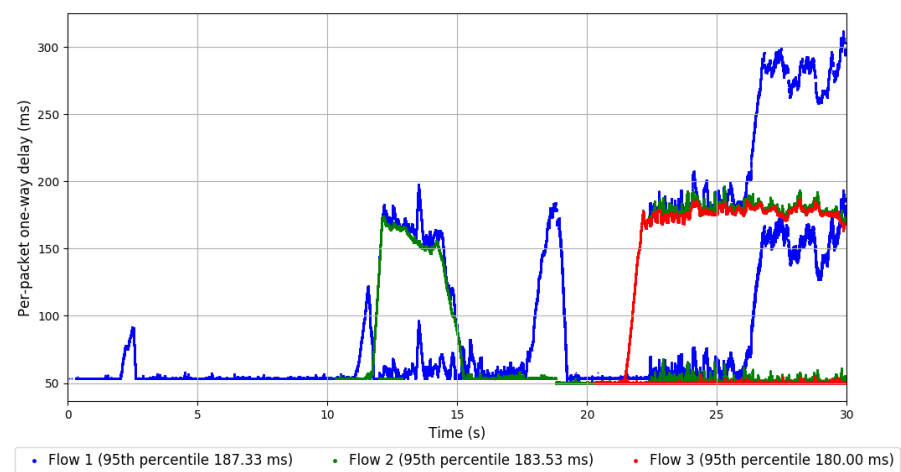
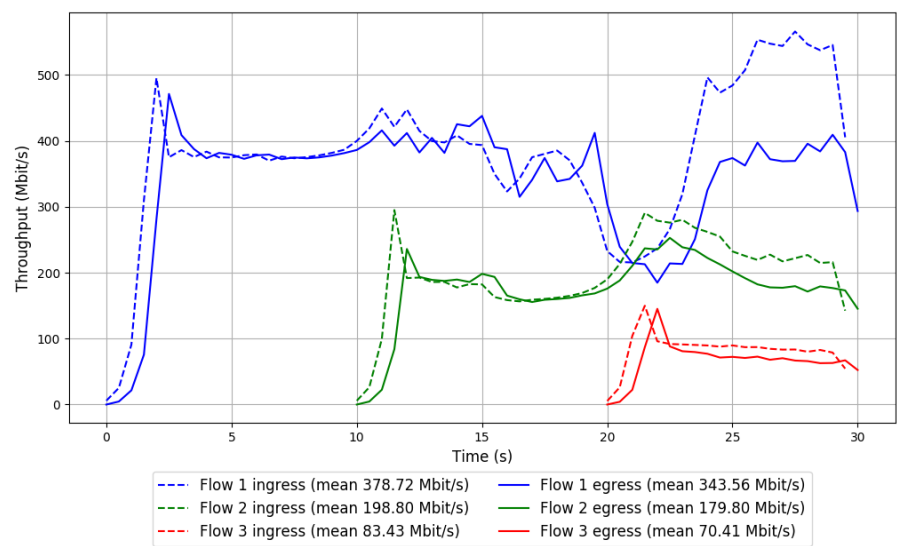
-- Flow 3:

Average throughput: 70.41 Mbit/s

95th percentile per-packet one-way delay: 180.003 ms

Loss rate: 15.61%

Run 10: Report of PCC-Expr — Data Link

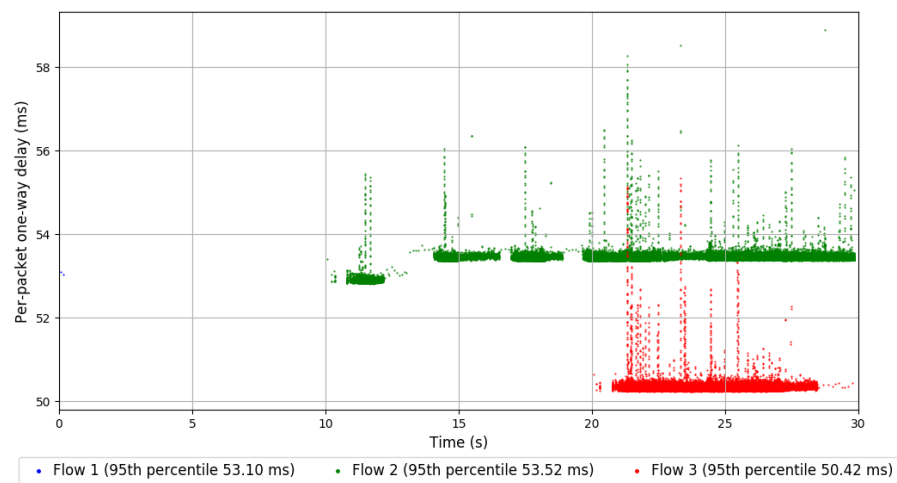
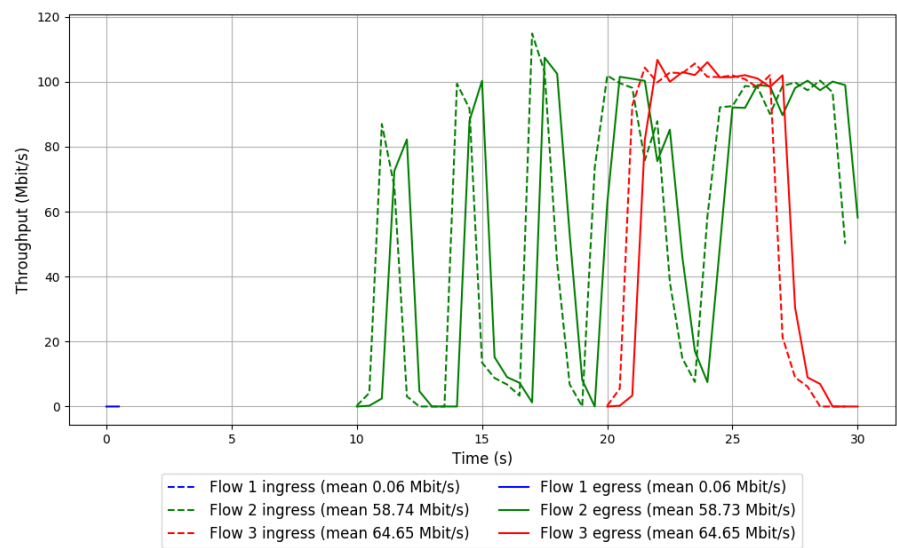


Run 1: Statistics of QUIC Cubic

Start at: 2018-05-26 03:01:08
End at: 2018-05-26 03:01:38
Local clock offset: -0.223 ms
Remote clock offset: -0.002 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 60.06 Mbit/s
95th percentile per-packet one-way delay: 53.501 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 53.100 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 58.73 Mbit/s
95th percentile per-packet one-way delay: 53.517 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 64.65 Mbit/s
95th percentile per-packet one-way delay: 50.416 ms
Loss rate: 0.00%

Run 1: Report of QUIC Cubic — Data Link



Run 2: Statistics of QUIC Cubic

Start at: 2018-05-26 03:24:13

End at: 2018-05-26 03:24:43

Local clock offset: -0.4 ms

Remote clock offset: 0.192 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.19 Mbit/s

95th percentile per-packet one-way delay: 53.839 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 64.34 Mbit/s

95th percentile per-packet one-way delay: 50.454 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 55.21 Mbit/s

95th percentile per-packet one-way delay: 53.880 ms

Loss rate: 0.00%

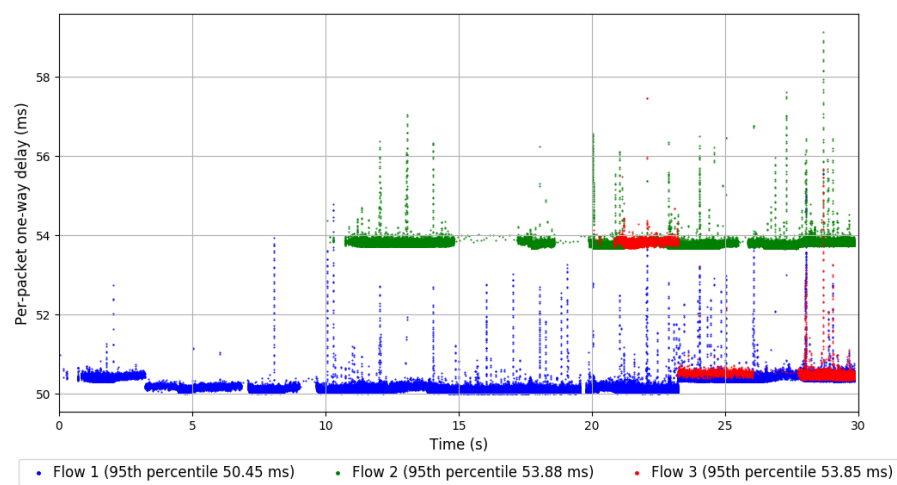
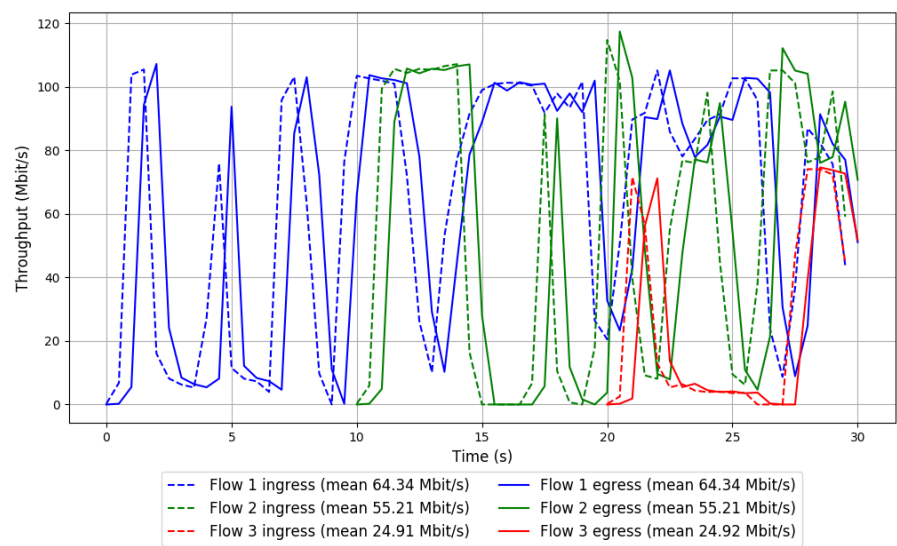
-- Flow 3:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 53.850 ms

Loss rate: 0.00%

Run 2: Report of QUIC Cubic — Data Link

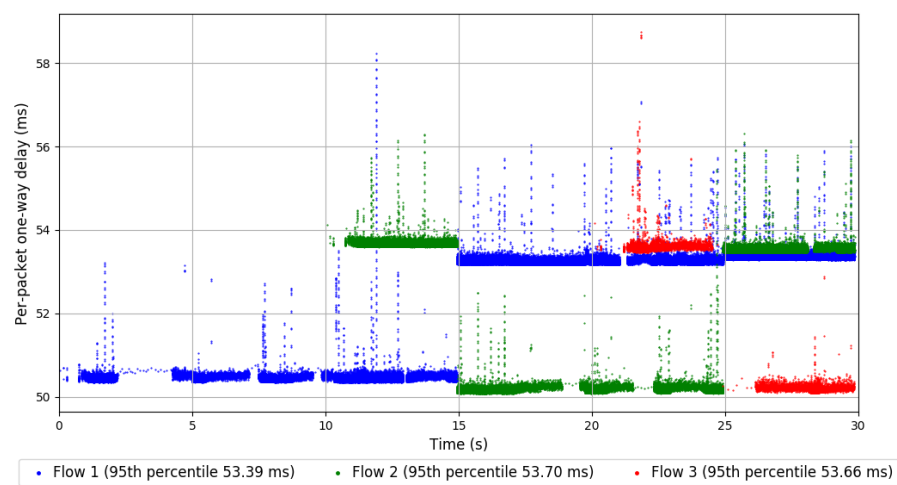
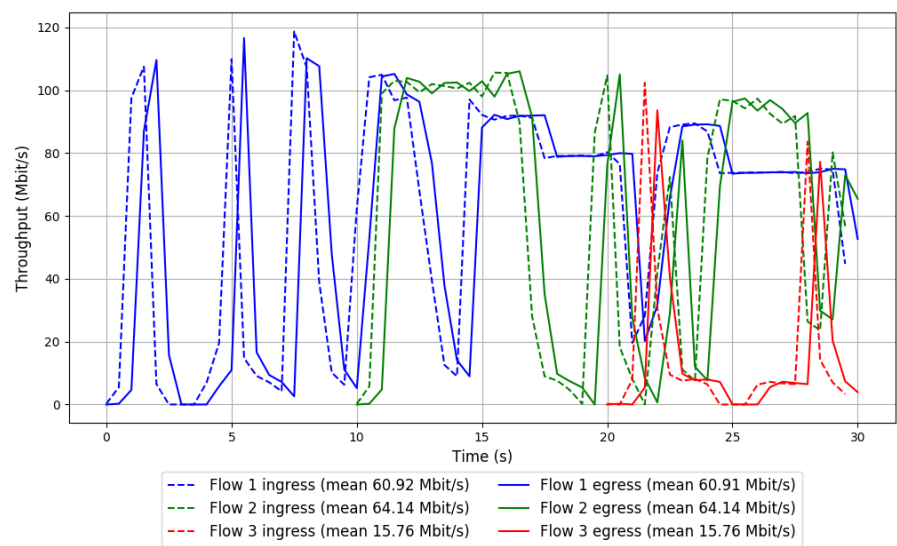


Run 3: Statistics of QUIC Cubic

Start at: 2018-05-26 03:47:51
End at: 2018-05-26 03:48:21
Local clock offset: -0.788 ms
Remote clock offset: -0.438 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 108.68 Mbit/s
95th percentile per-packet one-way delay: 53.670 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 60.91 Mbit/s
95th percentile per-packet one-way delay: 53.392 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.14 Mbit/s
95th percentile per-packet one-way delay: 53.705 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 15.76 Mbit/s
95th percentile per-packet one-way delay: 53.661 ms
Loss rate: 0.00%

Run 3: Report of QUIC Cubic — Data Link

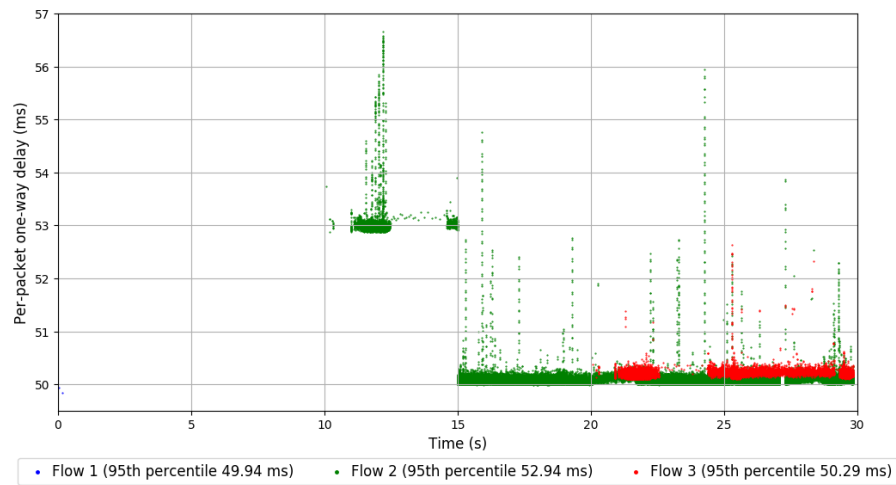
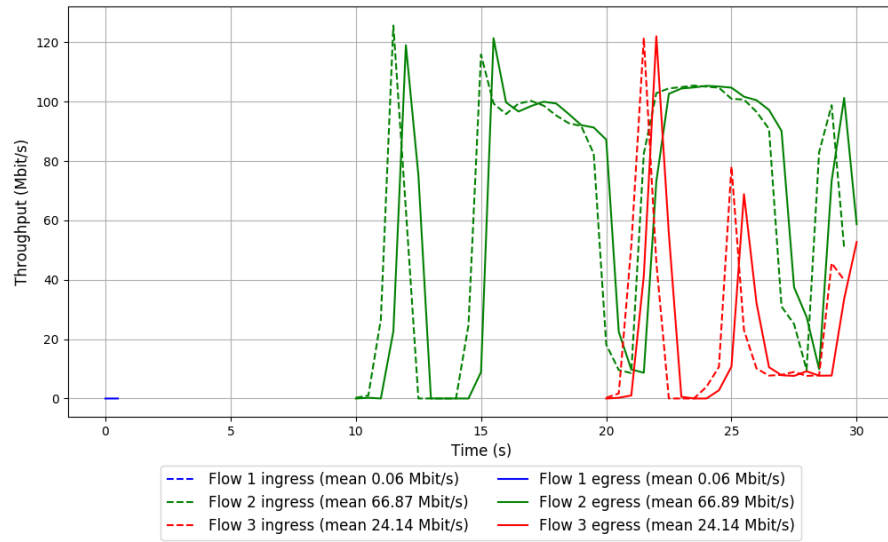


Run 4: Statistics of QUIC Cubic

Start at: 2018-05-26 04:10:26
End at: 2018-05-26 04:10:56
Local clock offset: -0.143 ms
Remote clock offset: -0.047 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 52.32 Mbit/s
95th percentile per-packet one-way delay: 52.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 49.942 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 66.89 Mbit/s
95th percentile per-packet one-way delay: 52.940 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 24.14 Mbit/s
95th percentile per-packet one-way delay: 50.292 ms
Loss rate: 0.00%

Run 4: Report of QUIC Cubic — Data Link



Run 5: Statistics of QUIC Cubic

Start at: 2018-05-26 04:33:13

End at: 2018-05-26 04:33:43

Local clock offset: -0.069 ms

Remote clock offset: 0.108 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 108.41 Mbit/s

95th percentile per-packet one-way delay: 53.502 ms

Loss rate: 0.01%

-- Flow 1:

Average throughput: 67.41 Mbit/s

95th percentile per-packet one-way delay: 50.470 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 48.41 Mbit/s

95th percentile per-packet one-way delay: 53.517 ms

Loss rate: 0.02%

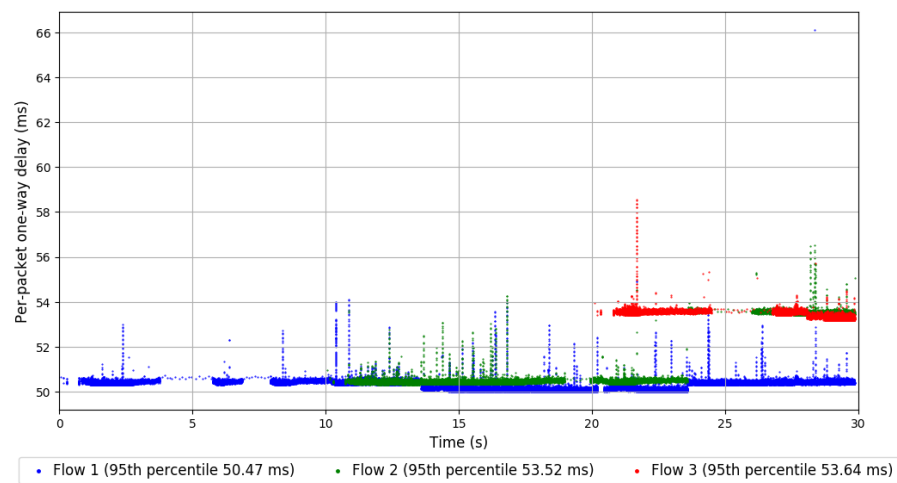
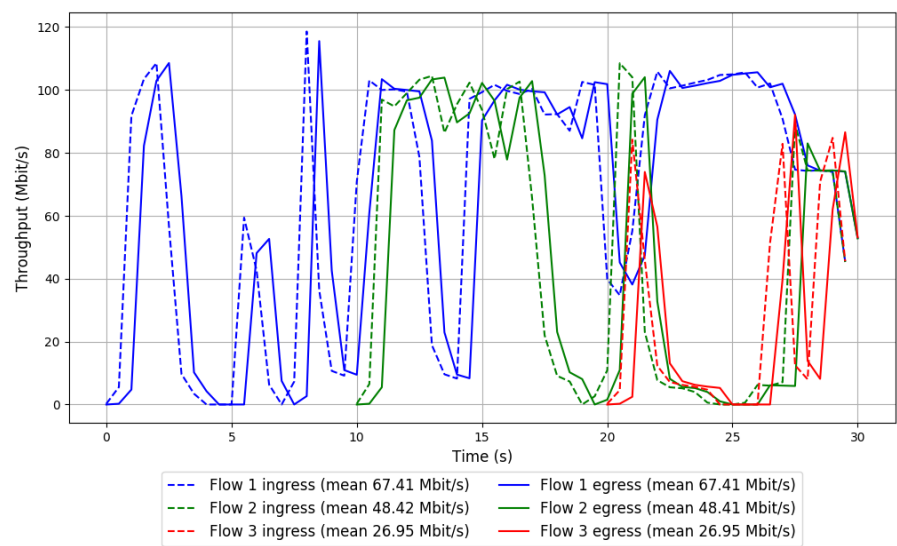
-- Flow 3:

Average throughput: 26.95 Mbit/s

95th percentile per-packet one-way delay: 53.639 ms

Loss rate: 0.06%

Run 5: Report of QUIC Cubic — Data Link

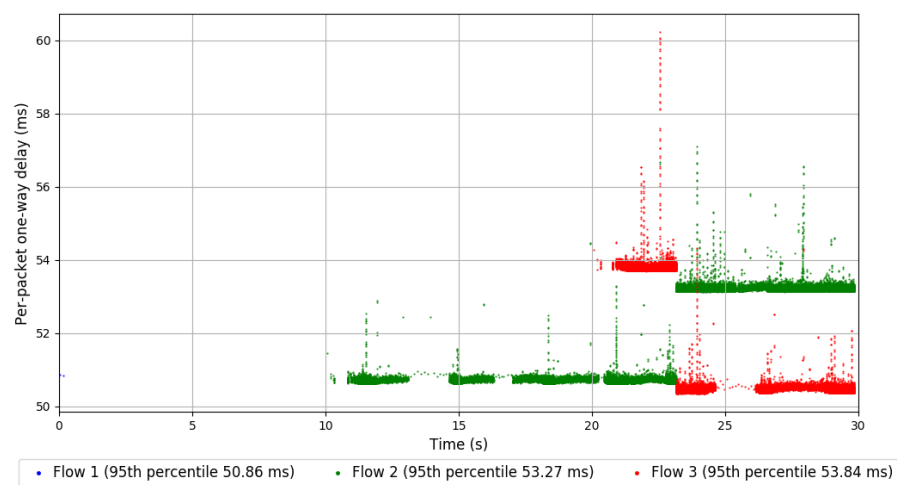
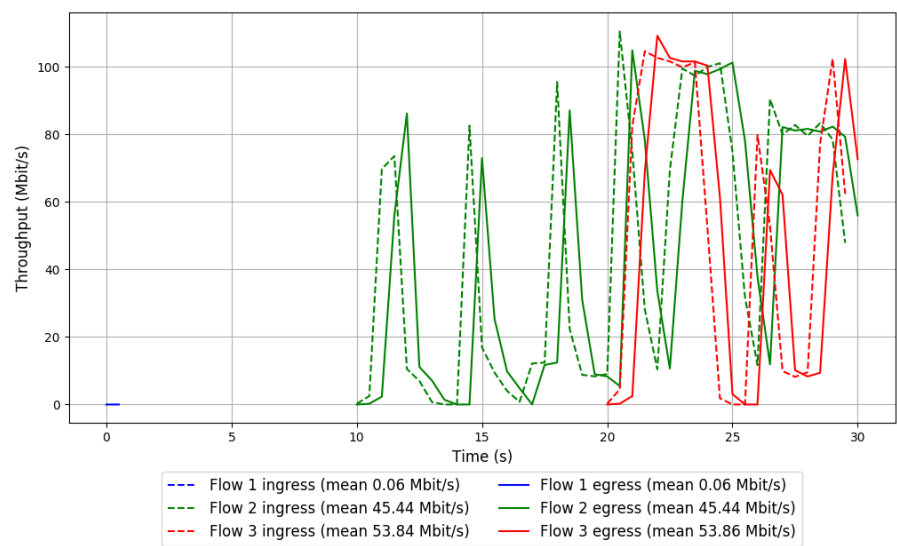


Run 6: Statistics of QUIC Cubic

Start at: 2018-05-26 04:56:13
End at: 2018-05-26 04:56:43
Local clock offset: -0.221 ms
Remote clock offset: -0.031 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 47.83 Mbit/s
95th percentile per-packet one-way delay: 53.796 ms
Loss rate: 0.01%
-- Flow 1:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 50.863 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 45.44 Mbit/s
95th percentile per-packet one-way delay: 53.271 ms
Loss rate: 0.02%
-- Flow 3:
Average throughput: 53.86 Mbit/s
95th percentile per-packet one-way delay: 53.845 ms
Loss rate: 0.00%

Run 6: Report of QUIC Cubic — Data Link



Run 7: Statistics of QUIC Cubic

Start at: 2018-05-26 05:19:16

End at: 2018-05-26 05:19:46

Local clock offset: 0.199 ms

Remote clock offset: 0.117 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 106.09 Mbit/s

95th percentile per-packet one-way delay: 53.497 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 56.72 Mbit/s

95th percentile per-packet one-way delay: 53.518 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 66.55 Mbit/s

95th percentile per-packet one-way delay: 52.963 ms

Loss rate: 0.00%

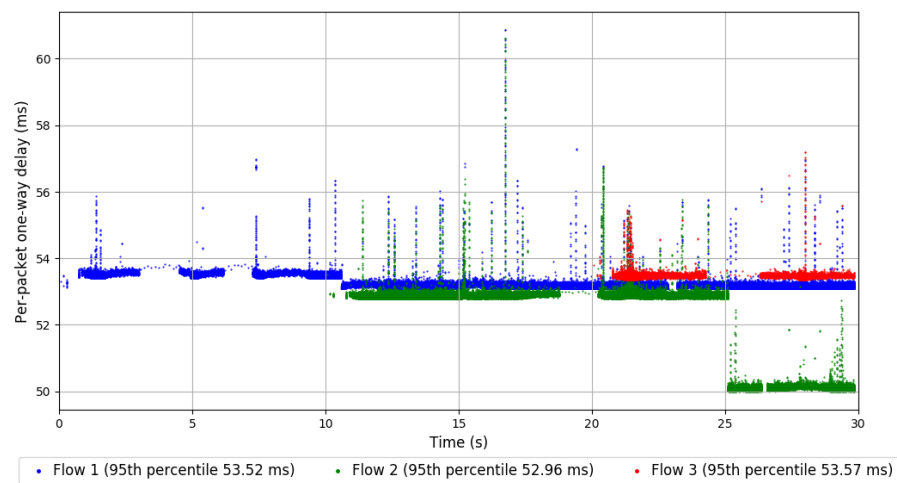
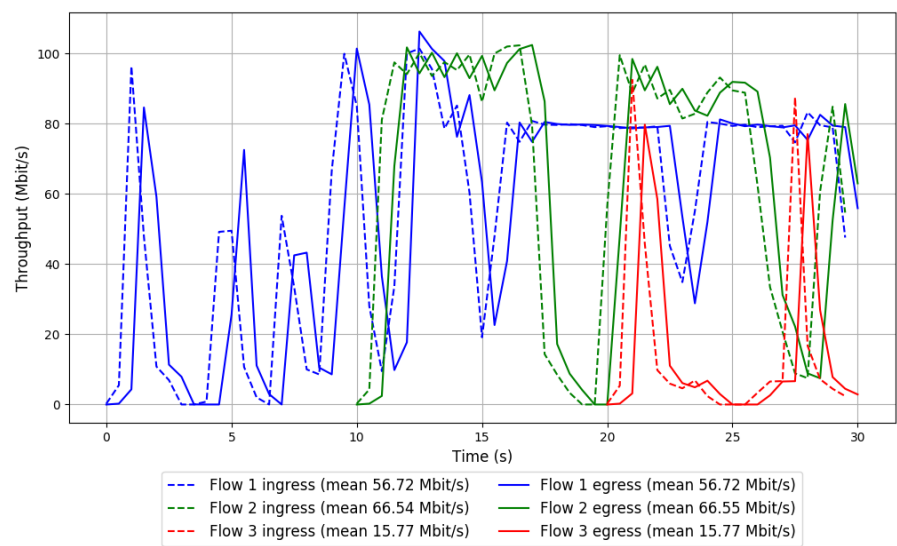
-- Flow 3:

Average throughput: 15.77 Mbit/s

95th percentile per-packet one-way delay: 53.568 ms

Loss rate: 0.00%

Run 7: Report of QUIC Cubic — Data Link

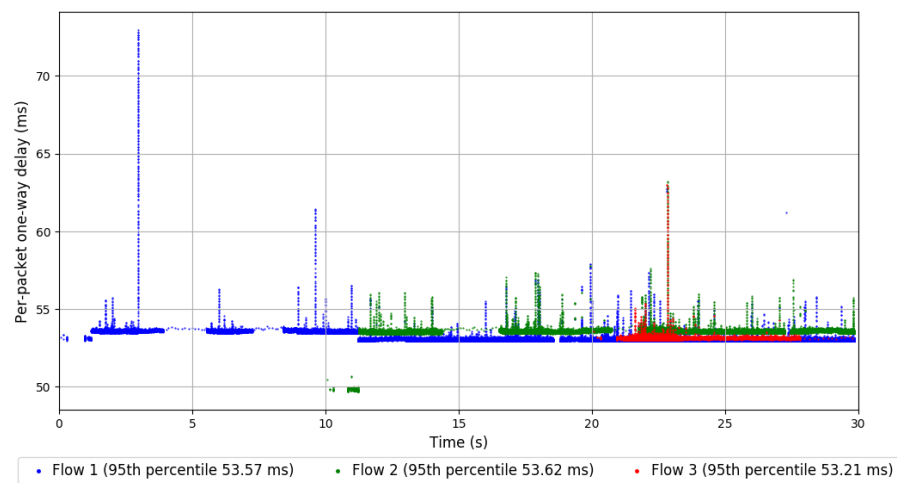
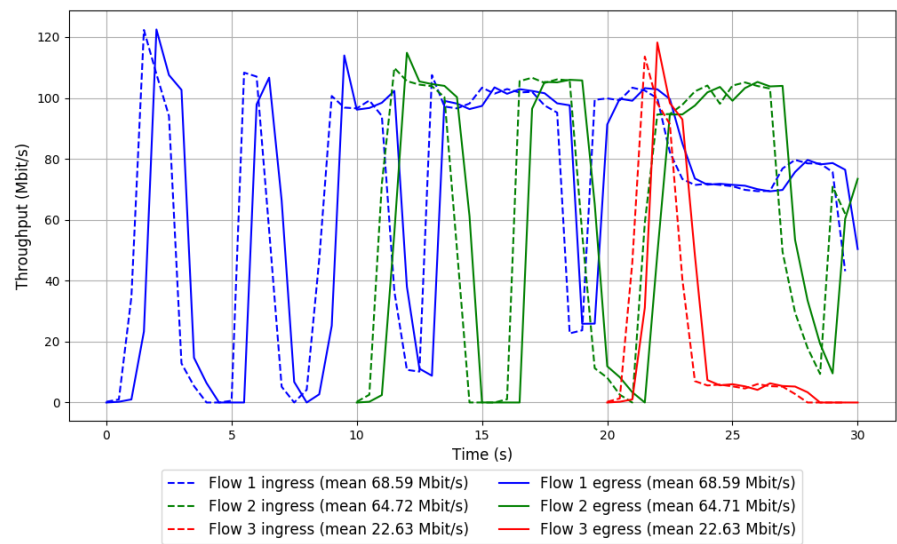


Run 8: Statistics of QUIC Cubic

Start at: 2018-05-26 05:42:15
End at: 2018-05-26 05:42:45
Local clock offset: -0.26 ms
Remote clock offset: -0.396 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 118.94 Mbit/s
95th percentile per-packet one-way delay: 53.588 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 68.59 Mbit/s
95th percentile per-packet one-way delay: 53.566 ms
Loss rate: 0.01%
-- Flow 2:
Average throughput: 64.71 Mbit/s
95th percentile per-packet one-way delay: 53.622 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 22.63 Mbit/s
95th percentile per-packet one-way delay: 53.212 ms
Loss rate: 0.00%

Run 8: Report of QUIC Cubic — Data Link



Run 9: Statistics of QUIC Cubic

Start at: 2018-05-26 06:04:45

End at: 2018-05-26 06:05:15

Local clock offset: -0.479 ms

Remote clock offset: 0.055 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 109.68 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 71.11 Mbit/s

95th percentile per-packet one-way delay: 50.759 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 43.74 Mbit/s

95th percentile per-packet one-way delay: 54.178 ms

Loss rate: 0.00%

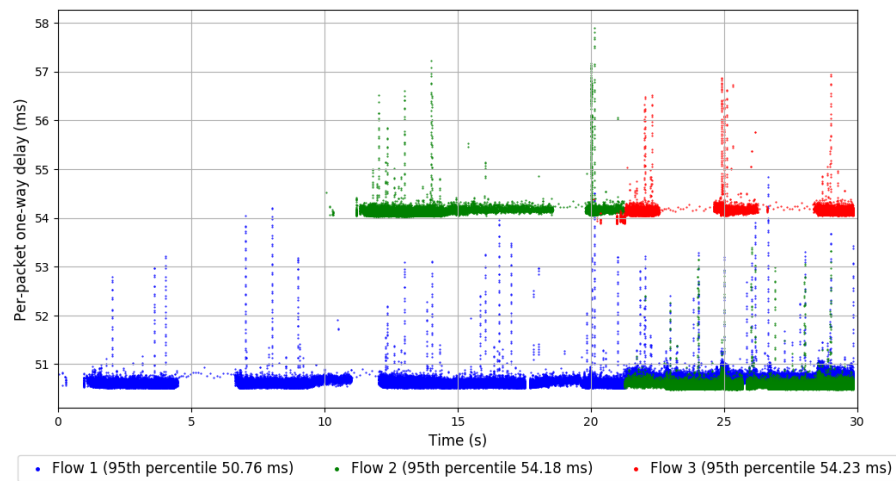
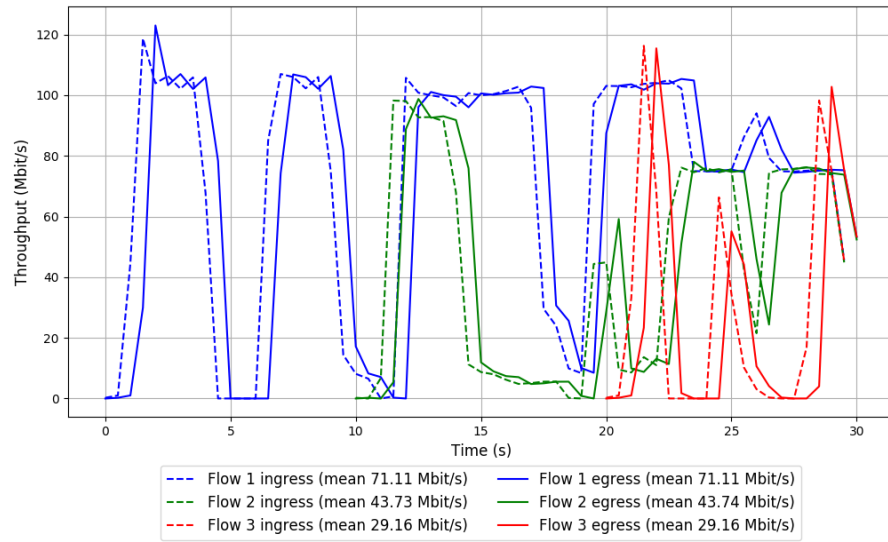
-- Flow 3:

Average throughput: 29.16 Mbit/s

95th percentile per-packet one-way delay: 54.225 ms

Loss rate: 0.00%

Run 9: Report of QUIC Cubic — Data Link



Run 10: Statistics of QUIC Cubic

Start at: 2018-05-26 06:28:09

End at: 2018-05-26 06:28:39

Local clock offset: -0.056 ms

Remote clock offset: 0.034 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 117.05 Mbit/s

95th percentile per-packet one-way delay: 53.708 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 76.38 Mbit/s

95th percentile per-packet one-way delay: 53.698 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 50.52 Mbit/s

95th percentile per-packet one-way delay: 53.633 ms

Loss rate: 0.00%

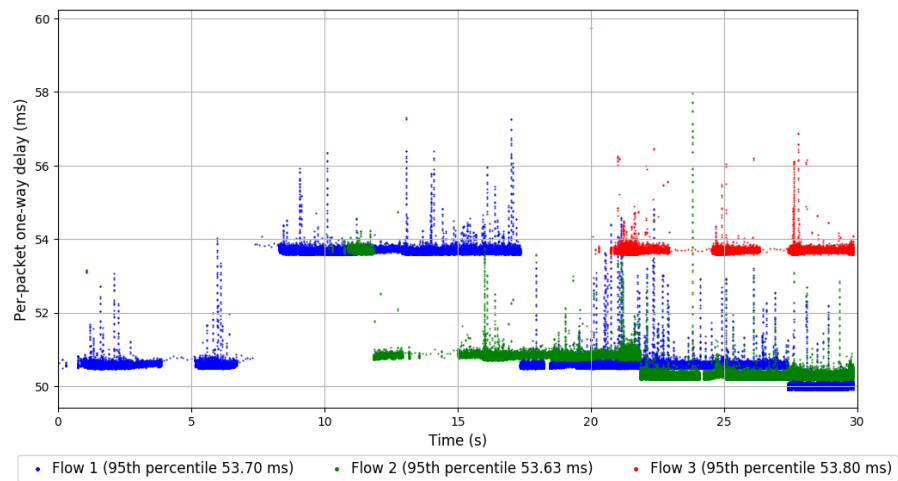
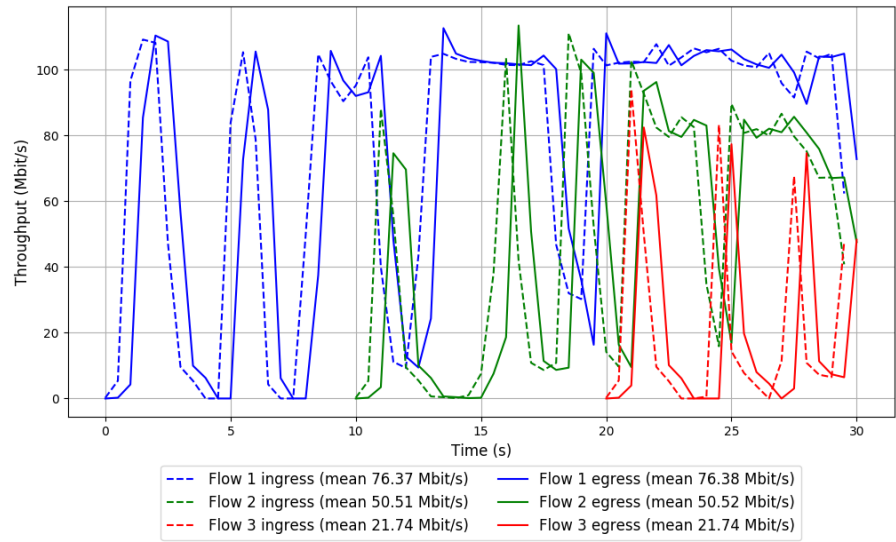
-- Flow 3:

Average throughput: 21.74 Mbit/s

95th percentile per-packet one-way delay: 53.804 ms

Loss rate: 0.00%

Run 10: Report of QUIC Cubic — Data Link

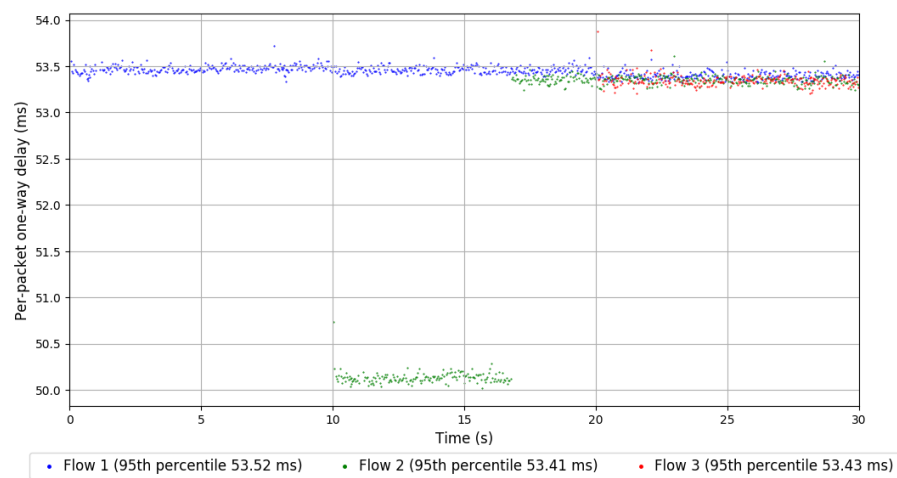
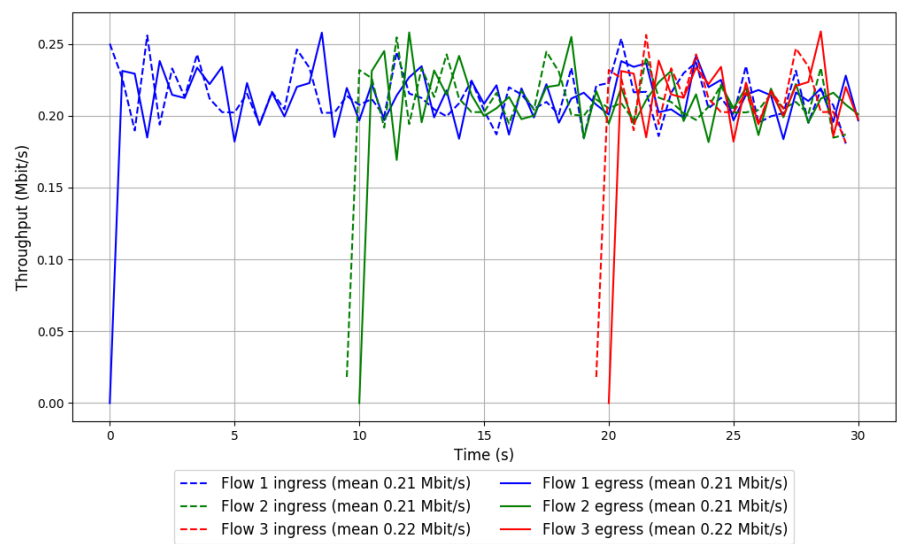


Run 1: Statistics of SReAM

Start at: 2018-05-26 02:59:59
End at: 2018-05-26 03:00:30
Local clock offset: -0.219 ms
Remote clock offset: -0.138 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.510 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.524 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.405 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.432 ms
Loss rate: 0.00%

Run 1: Report of SReAM — Data Link

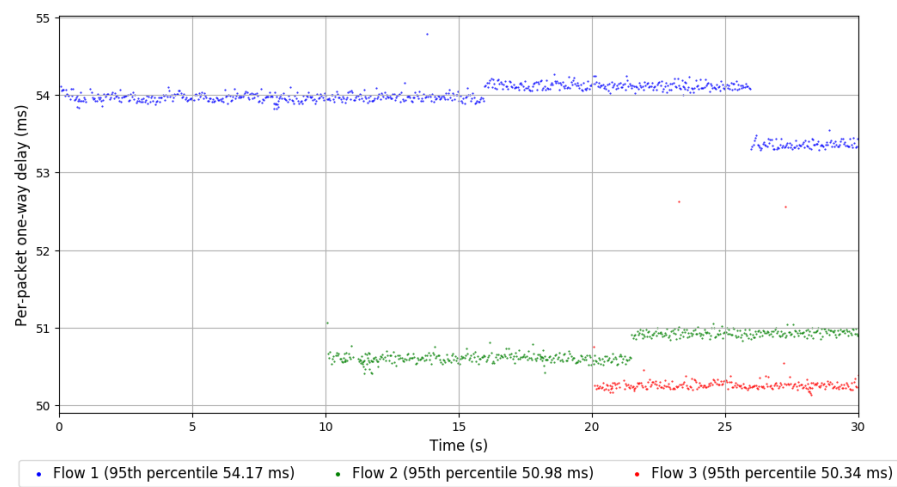
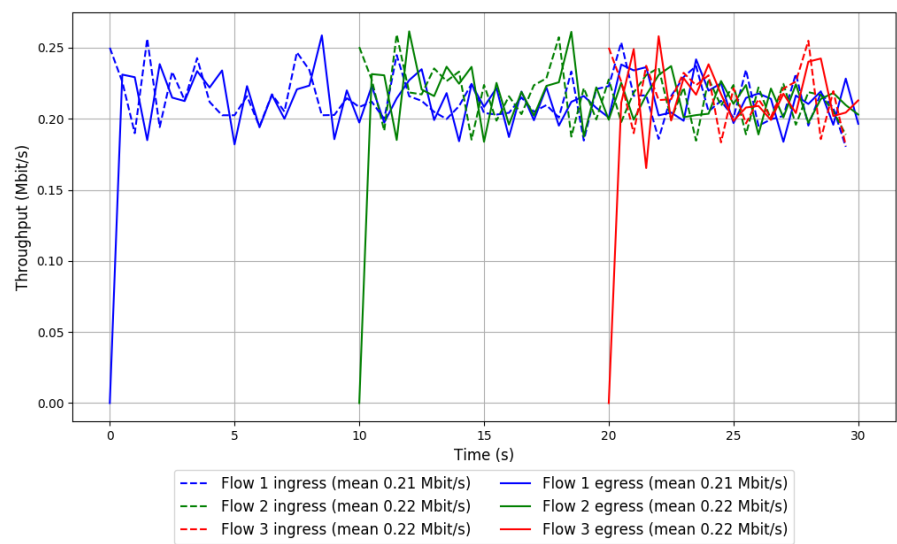


Run 2: Statistics of SReAM

Start at: 2018-05-26 03:23:05
End at: 2018-05-26 03:23:35
Local clock offset: -0.431 ms
Remote clock offset: 0.163 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 54.143 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 54.166 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.980 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.345 ms
Loss rate: 0.00%

Run 2: Report of SReAM — Data Link

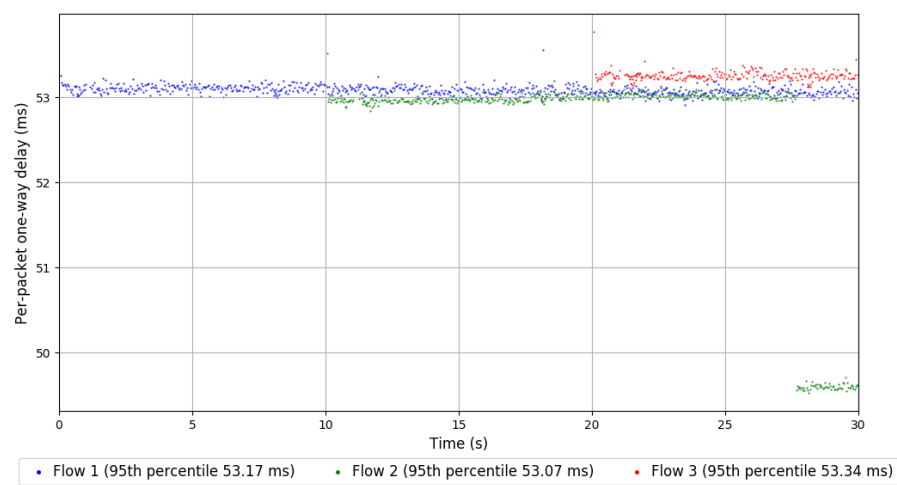
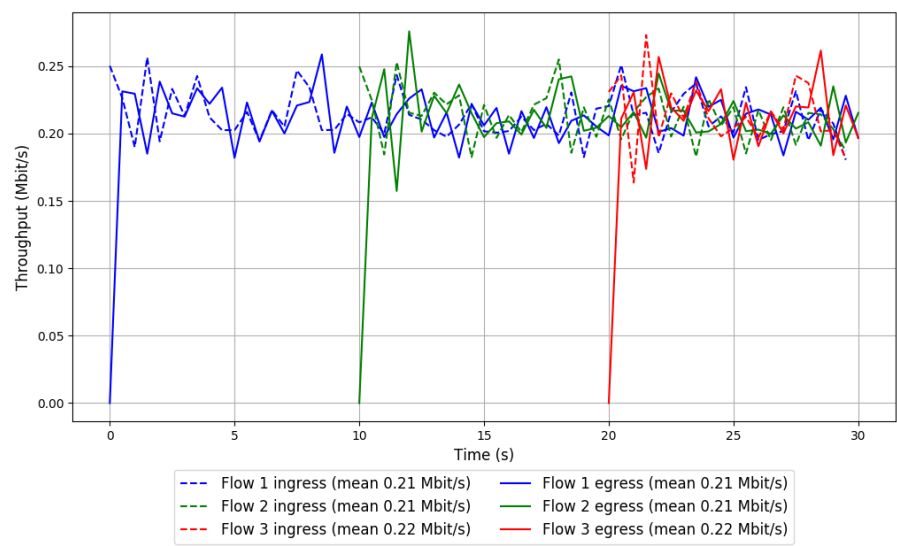


Run 3: Statistics of SReAM

Start at: 2018-05-26 03:46:43
End at: 2018-05-26 03:47:13
Local clock offset: -0.327 ms
Remote clock offset: -0.311 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.277 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.170 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.069 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.342 ms
Loss rate: 0.00%

Run 3: Report of SCReAM — Data Link

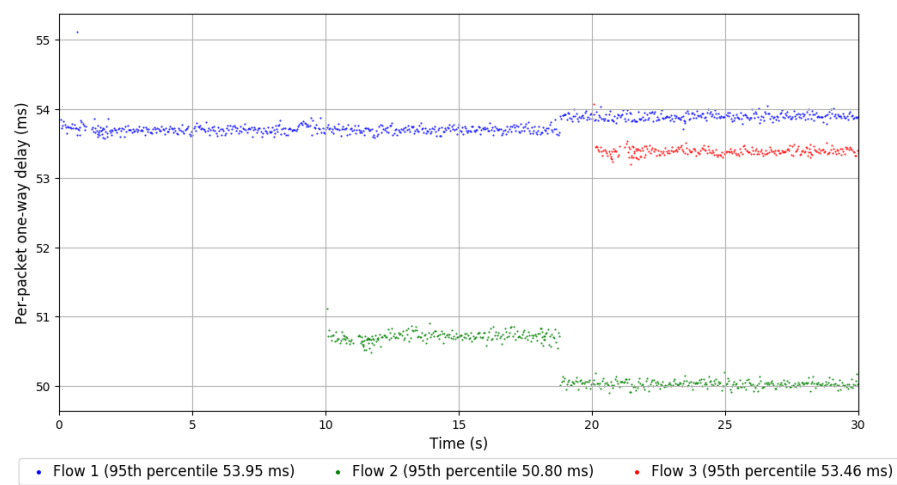
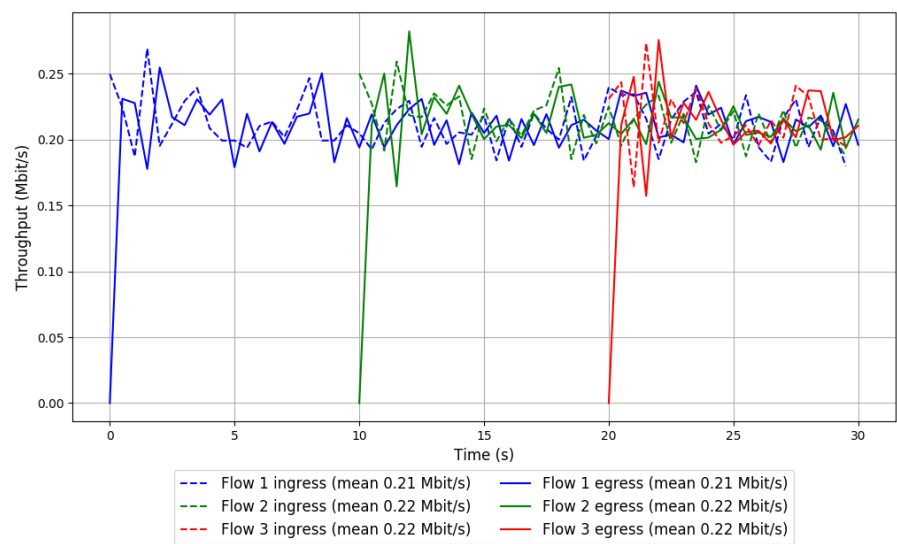


Run 4: Statistics of SReAM

Start at: 2018-05-26 04:09:18
End at: 2018-05-26 04:09:48
Local clock offset: -0.266 ms
Remote clock offset: -0.137 ms

Below is generated by plot.py at 2018-05-26 08:35:29
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.43 Mbit/s
95th percentile per-packet one-way delay: 53.925 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.21 Mbit/s
95th percentile per-packet one-way delay: 53.946 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 50.795 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.22 Mbit/s
95th percentile per-packet one-way delay: 53.464 ms
Loss rate: 0.00%

Run 4: Report of SReAM — Data Link



Run 5: Statistics of SReAM

Start at: 2018-05-26 04:32:05

End at: 2018-05-26 04:32:35

Local clock offset: -0.056 ms

Remote clock offset: 0.154 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.645 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.899 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.661 ms

Loss rate: 0.00%

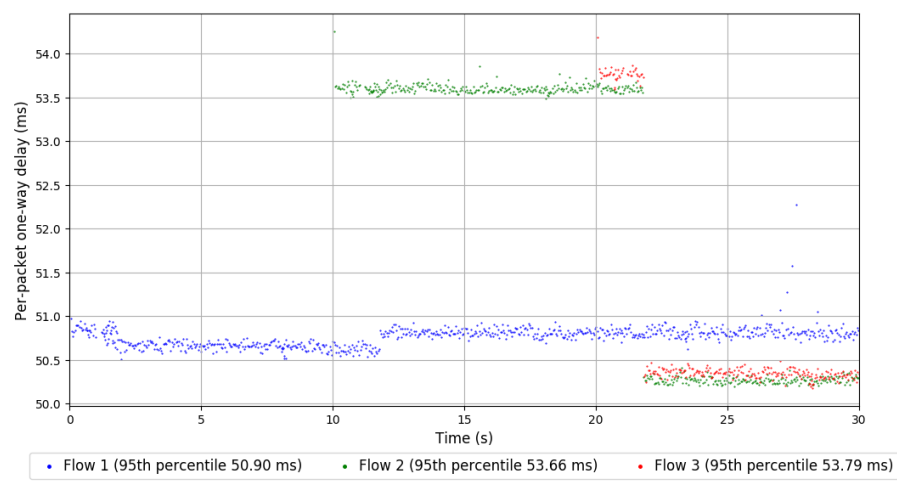
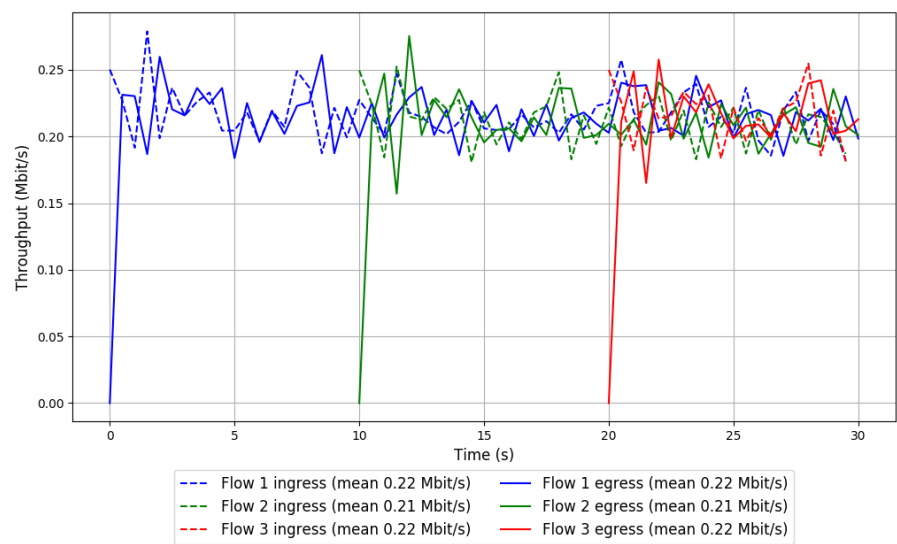
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.790 ms

Loss rate: 0.00%

Run 5: Report of SReAM — Data Link



Run 6: Statistics of SReAM

Start at: 2018-05-26 04:55:05

End at: 2018-05-26 04:55:35

Local clock offset: 0.157 ms

Remote clock offset: -0.04 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.398 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.159 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.456 ms

Loss rate: 0.00%

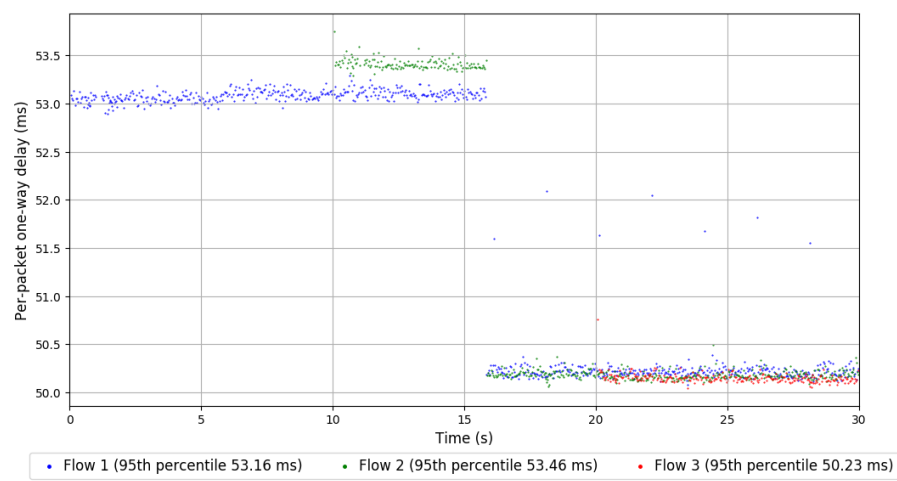
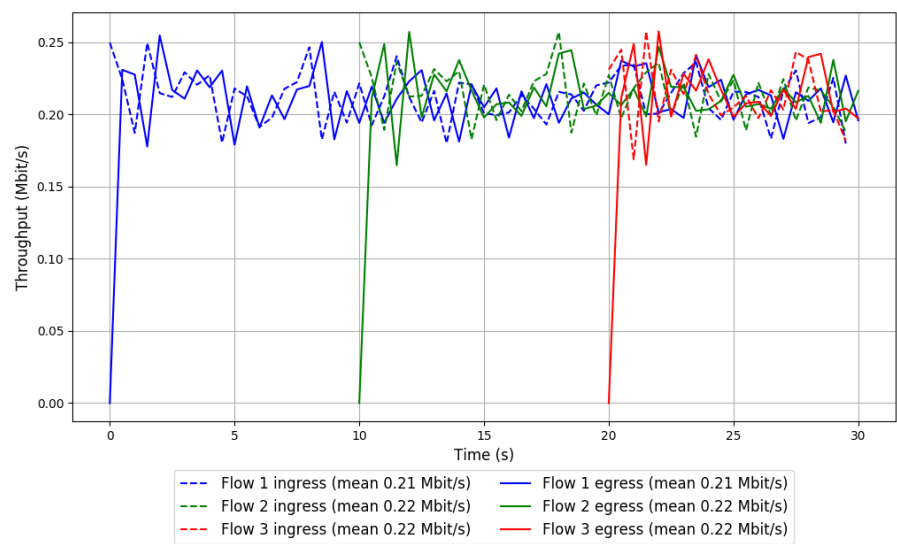
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.231 ms

Loss rate: 0.00%

Run 6: Report of SReAM — Data Link



Run 7: Statistics of SReAM

Start at: 2018-05-26 05:18:08

End at: 2018-05-26 05:18:38

Local clock offset: 0.176 ms

Remote clock offset: 0.13 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.892 ms

Loss rate: 0.06%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.222 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.920 ms

Loss rate: 0.00%

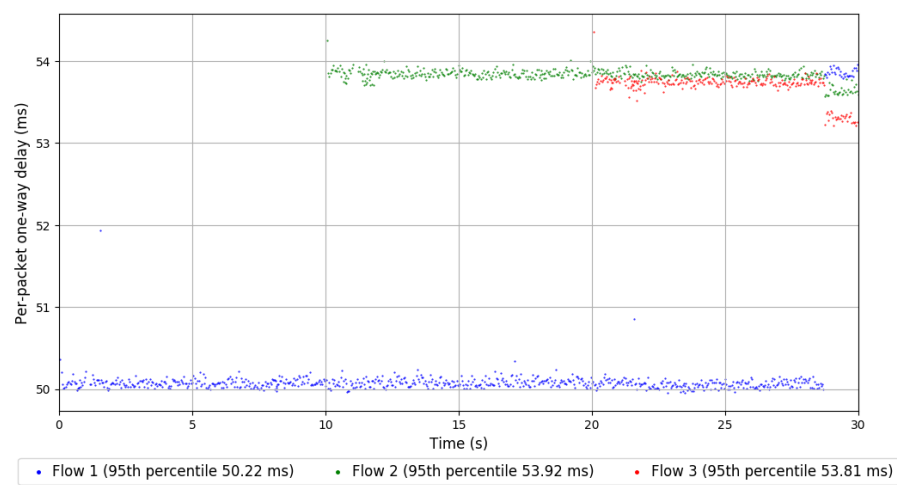
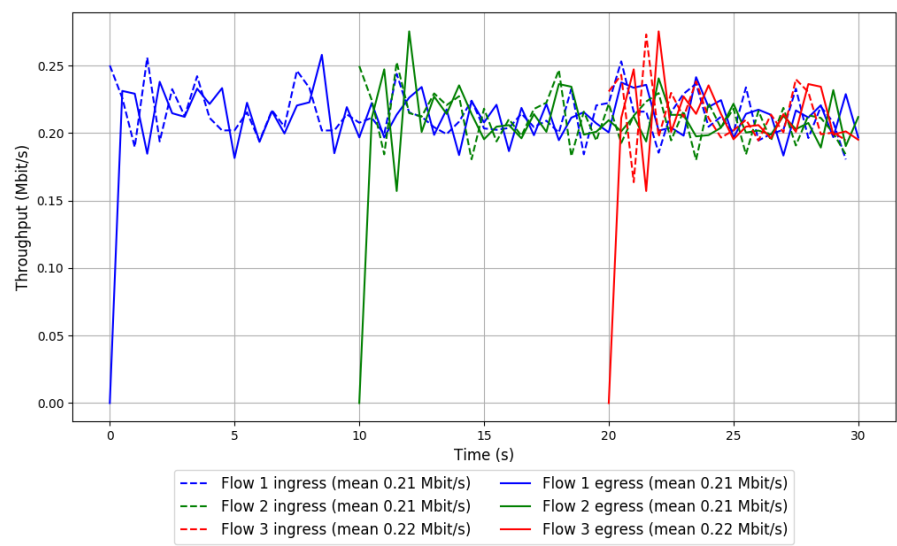
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.814 ms

Loss rate: 0.35%

Run 7: Report of SReAM — Data Link



Run 8: Statistics of SReAM

Start at: 2018-05-26 05:41:07

End at: 2018-05-26 05:41:37

Local clock offset: 0.175 ms

Remote clock offset: 0.004 ms

Below is generated by plot.py at 2018-05-26 08:35:29

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.335 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 50.709 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.383 ms

Loss rate: 0.00%

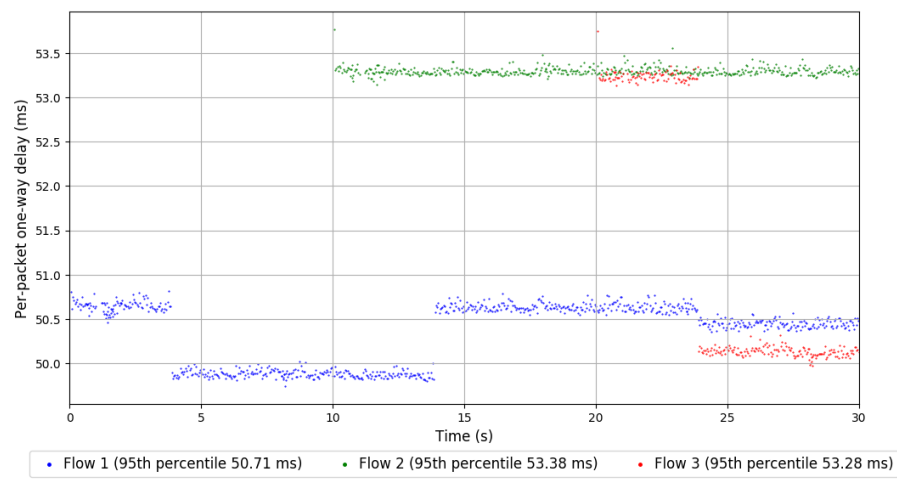
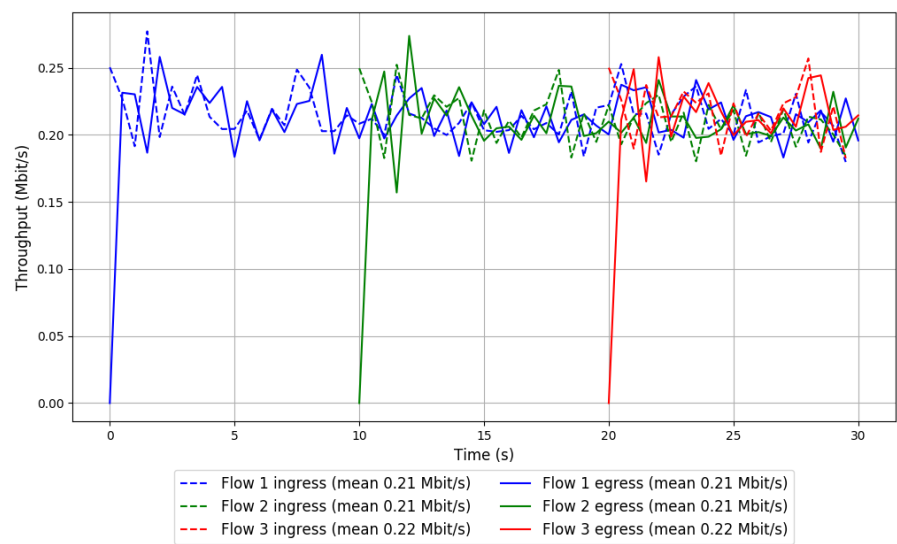
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.283 ms

Loss rate: 0.00%

Run 8: Report of SReAM — Data Link



Run 9: Statistics of SReAM

Start at: 2018-05-26 06:03:37

End at: 2018-05-26 06:04:07

Local clock offset: 0.11 ms

Remote clock offset: 0.008 ms

Below is generated by plot.py at 2018-05-26 08:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.669 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.325 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.00%

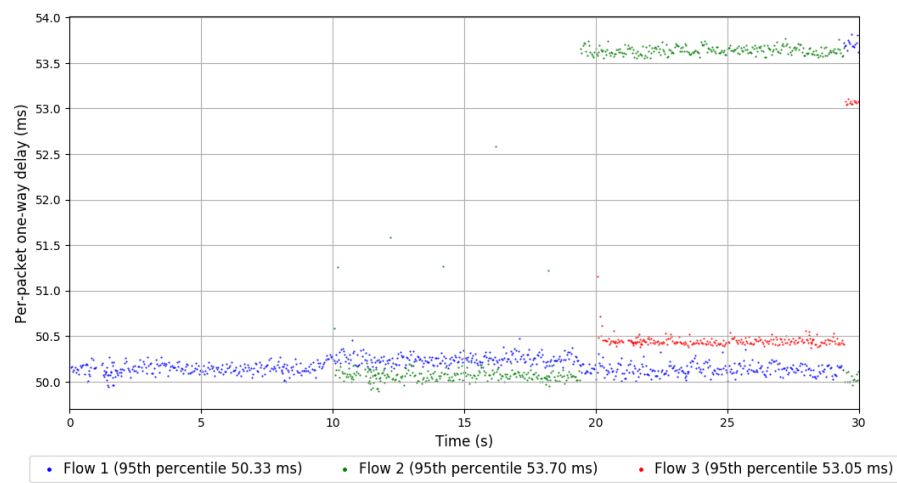
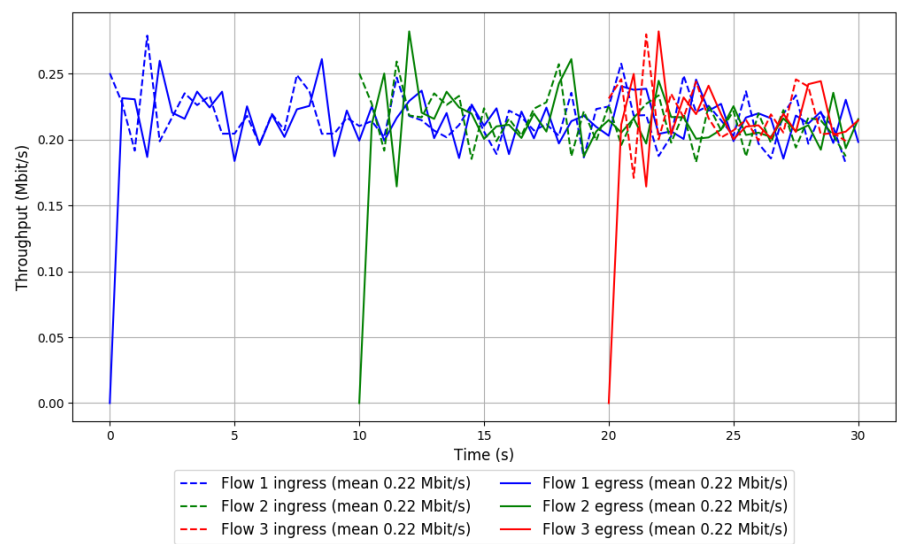
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 53.045 ms

Loss rate: 0.00%

Run 9: Report of SReAM — Data Link



Run 10: Statistics of SReAM

Start at: 2018-05-26 06:27:01

End at: 2018-05-26 06:27:31

Local clock offset: 0.191 ms

Remote clock offset: 0.191 ms

Below is generated by plot.py at 2018-05-26 08:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.43 Mbit/s

95th percentile per-packet one-way delay: 53.971 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 50.510 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.21 Mbit/s

95th percentile per-packet one-way delay: 53.816 ms

Loss rate: 0.00%

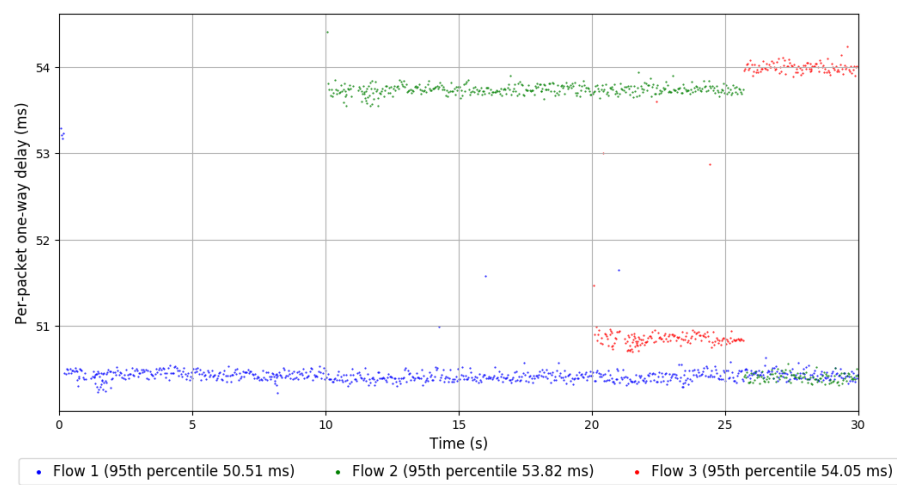
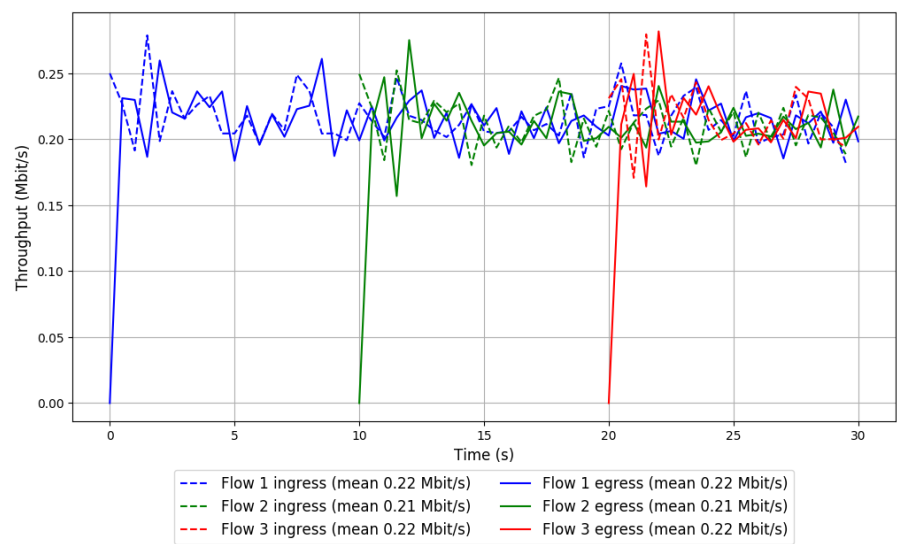
-- Flow 3:

Average throughput: 0.22 Mbit/s

95th percentile per-packet one-way delay: 54.051 ms

Loss rate: 0.00%

Run 10: Report of SCRaM — Data Link



Run 1: Statistics of Sprout

Start at: 2018-05-26 02:56:05

End at: 2018-05-26 02:56:35

Local clock offset: -0.354 ms

Remote clock offset: 0.198 ms

Below is generated by plot.py at 2018-05-26 08:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 10.49 Mbit/s

95th percentile per-packet one-way delay: 54.128 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 4.89 Mbit/s

95th percentile per-packet one-way delay: 54.100 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 5.94 Mbit/s

95th percentile per-packet one-way delay: 54.229 ms

Loss rate: 0.00%

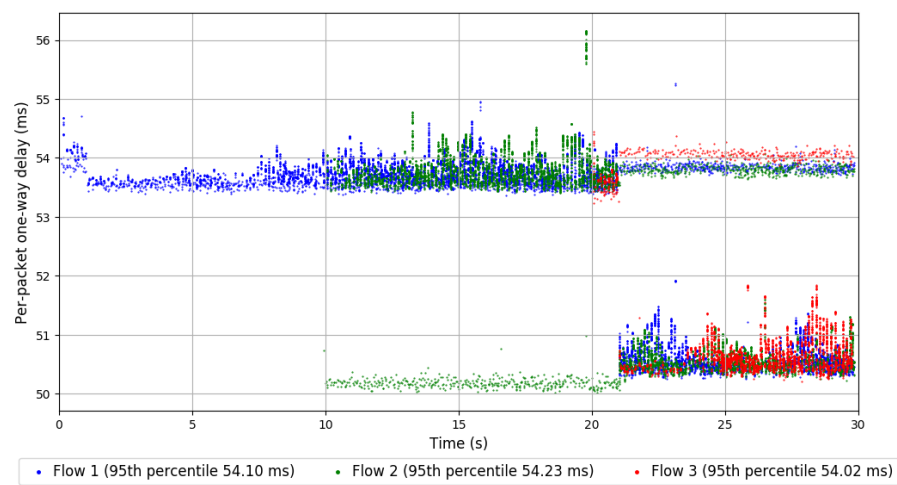
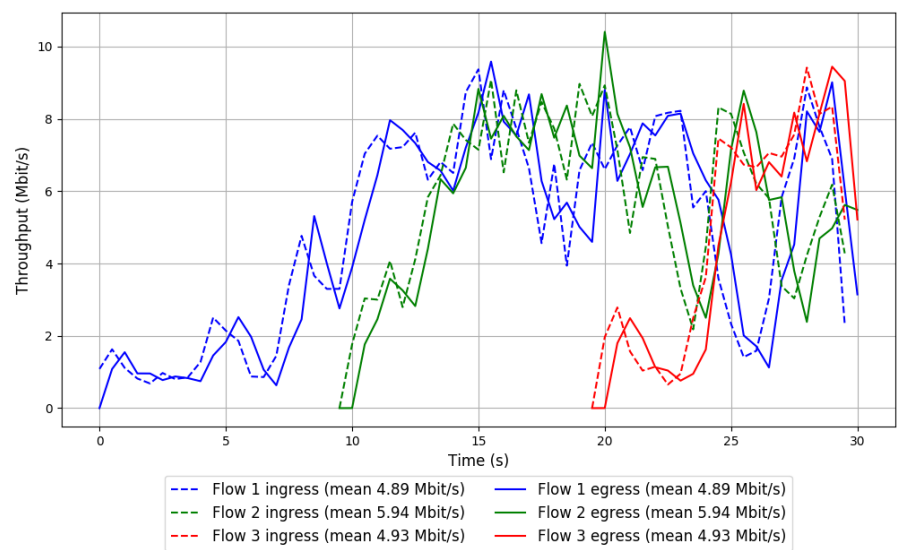
-- Flow 3:

Average throughput: 4.93 Mbit/s

95th percentile per-packet one-way delay: 54.019 ms

Loss rate: 0.00%

Run 1: Report of Sprout — Data Link

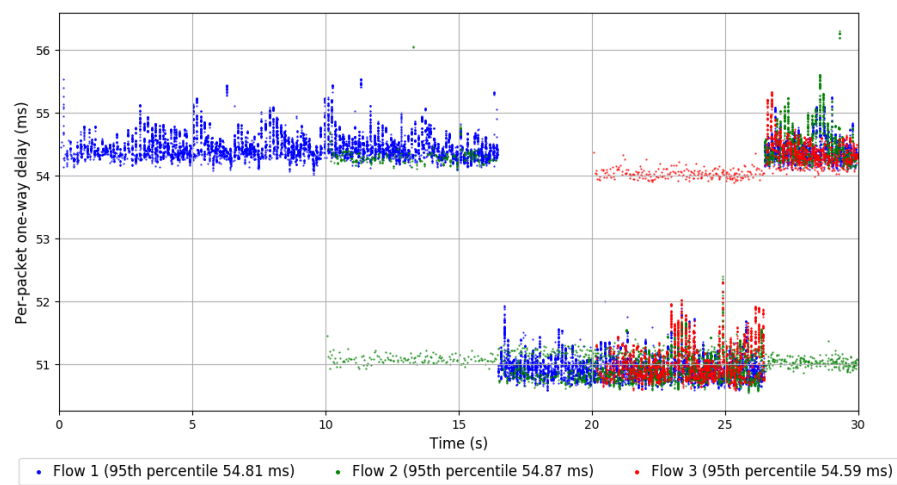
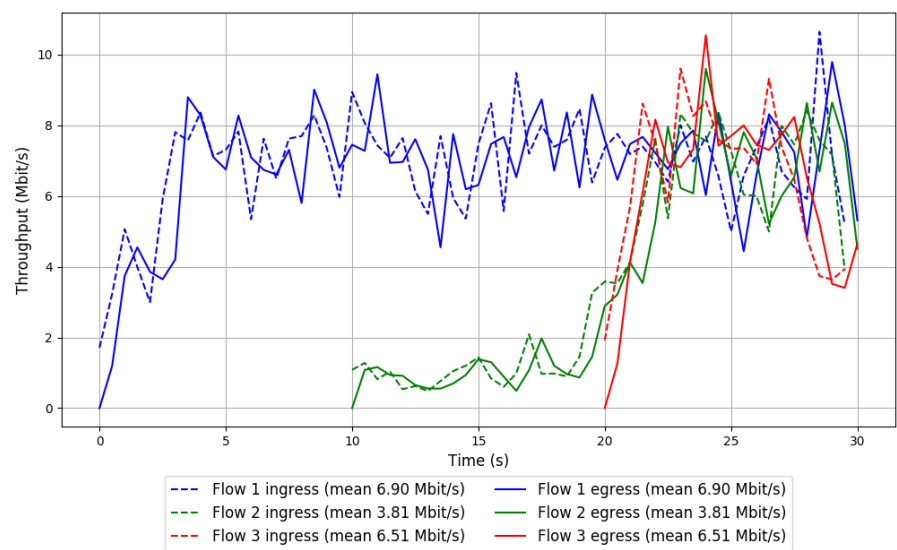


Run 2: Statistics of Sprout

Start at: 2018-05-26 03:19:10
End at: 2018-05-26 03:19:40
Local clock offset: -0.581 ms
Remote clock offset: 0.29 ms

Below is generated by plot.py at 2018-05-26 08:35:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 11.58 Mbit/s
95th percentile per-packet one-way delay: 54.797 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.90 Mbit/s
95th percentile per-packet one-way delay: 54.806 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 3.81 Mbit/s
95th percentile per-packet one-way delay: 54.868 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.51 Mbit/s
95th percentile per-packet one-way delay: 54.594 ms
Loss rate: 0.00%

Run 2: Report of Sprout — Data Link

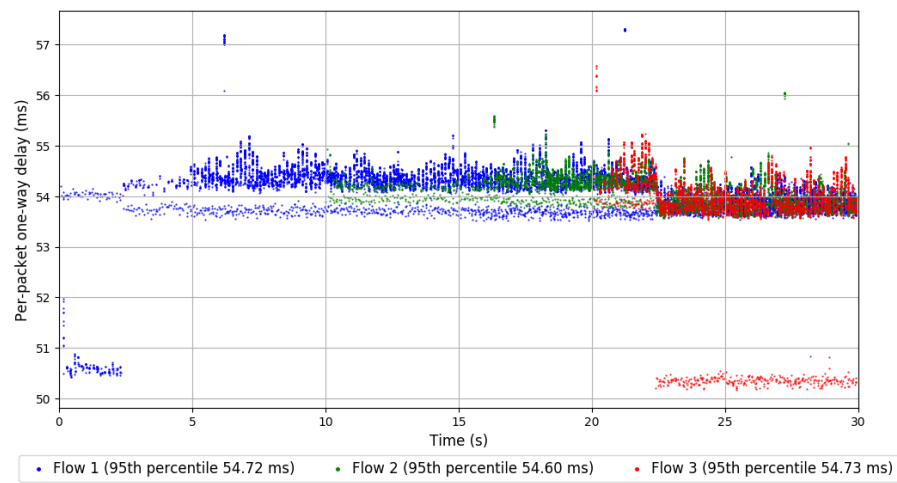
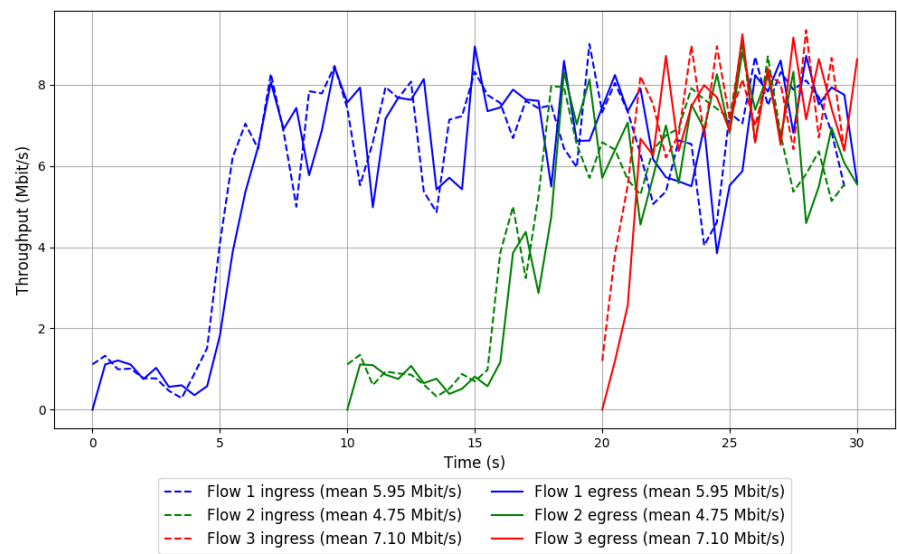


Run 3: Statistics of Sprout

Start at: 2018-05-26 03:42:44
End at: 2018-05-26 03:43:14
Local clock offset: -0.401 ms
Remote clock offset: 0.278 ms

```
# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 11.44 Mbit/s
95th percentile per-packet one-way delay: 54.689 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.95 Mbit/s
95th percentile per-packet one-way delay: 54.724 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 4.75 Mbit/s
95th percentile per-packet one-way delay: 54.597 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.10 Mbit/s
95th percentile per-packet one-way delay: 54.730 ms
Loss rate: 0.00%
```

Run 3: Report of Sprout — Data Link

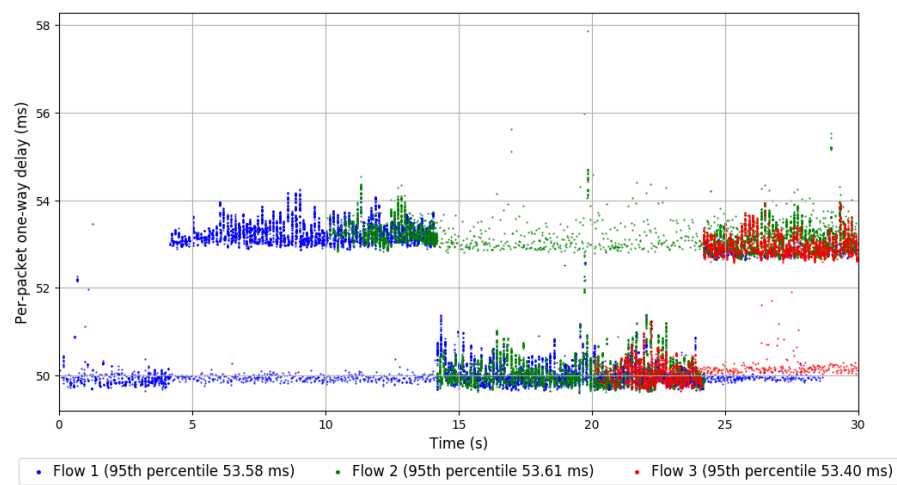
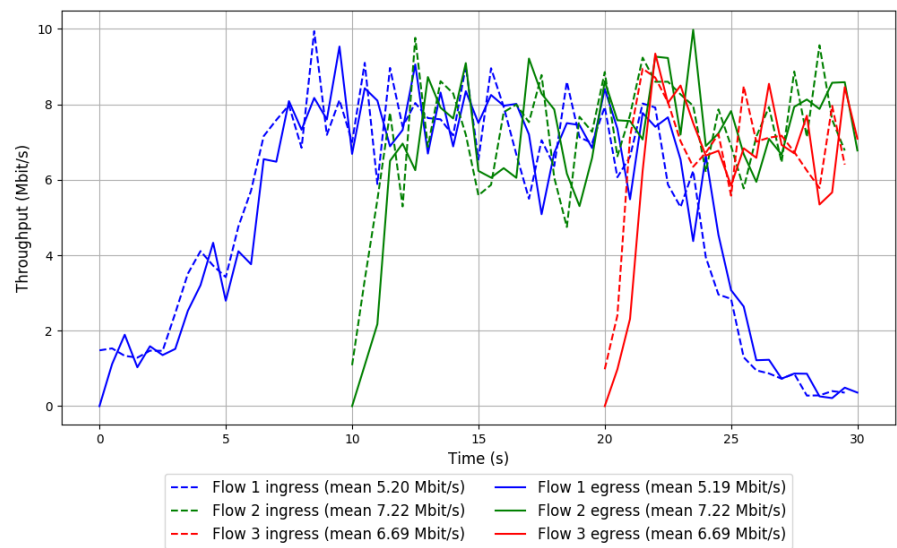


Run 4: Statistics of Sprout

Start at: 2018-05-26 04:05:22
End at: 2018-05-26 04:05:52
Local clock offset: -0.123 ms
Remote clock offset: -0.282 ms

```
# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 12.20 Mbit/s
95th percentile per-packet one-way delay: 53.559 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 5.19 Mbit/s
95th percentile per-packet one-way delay: 53.583 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.22 Mbit/s
95th percentile per-packet one-way delay: 53.608 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.69 Mbit/s
95th percentile per-packet one-way delay: 53.396 ms
Loss rate: 0.00%
```

Run 4: Report of Sprout — Data Link



Run 5: Statistics of Sprout

Start at: 2018-05-26 04:28:08

End at: 2018-05-26 04:28:38

Local clock offset: 0.016 ms

Remote clock offset: 0.253 ms

Below is generated by plot.py at 2018-05-26 08:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.64 Mbit/s

95th percentile per-packet one-way delay: 54.221 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.17 Mbit/s

95th percentile per-packet one-way delay: 54.200 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 54.188 ms

Loss rate: 0.00%

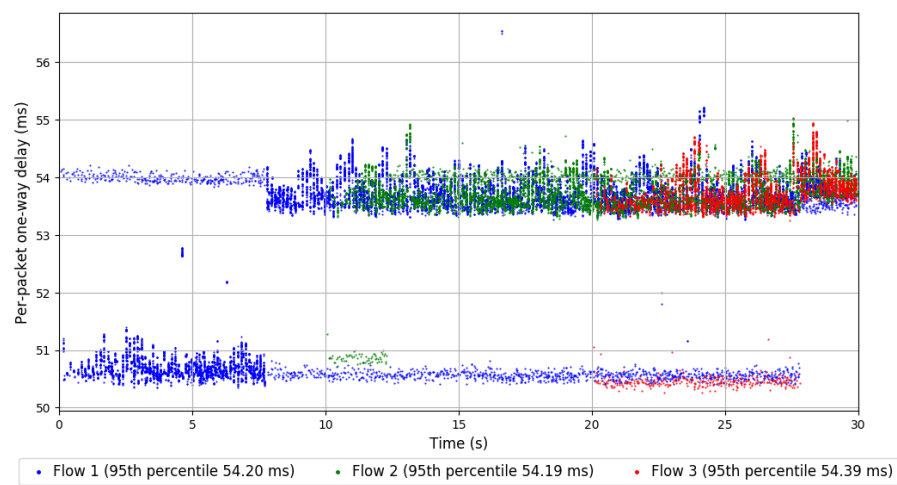
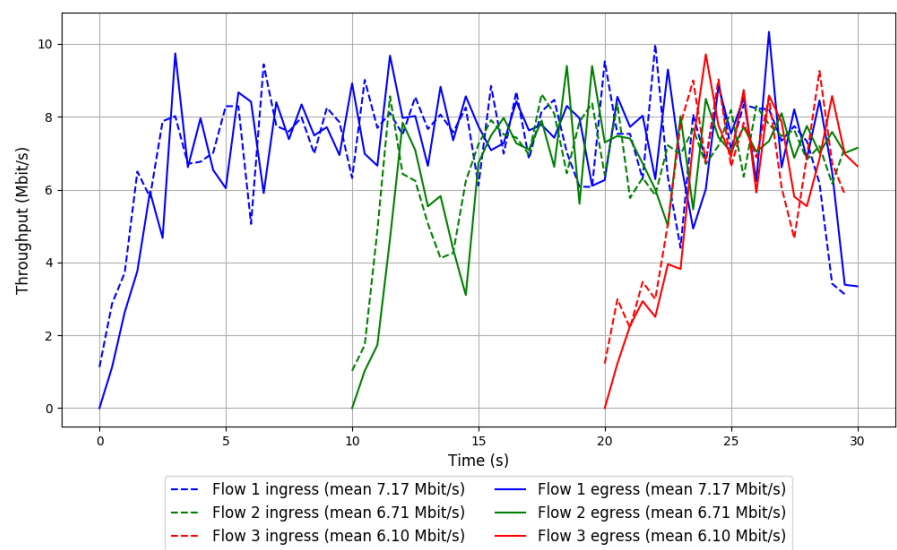
-- Flow 3:

Average throughput: 6.10 Mbit/s

95th percentile per-packet one-way delay: 54.388 ms

Loss rate: 0.00%

Run 5: Report of Sprout — Data Link



Run 6: Statistics of Sprout

Start at: 2018-05-26 04:51:06

End at: 2018-05-26 04:51:36

Local clock offset: 0.52 ms

Remote clock offset: -0.03 ms

Below is generated by plot.py at 2018-05-26 08:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.93 Mbit/s

95th percentile per-packet one-way delay: 53.854 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 7.09 Mbit/s

95th percentile per-packet one-way delay: 53.894 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 6.96 Mbit/s

95th percentile per-packet one-way delay: 53.836 ms

Loss rate: 0.00%

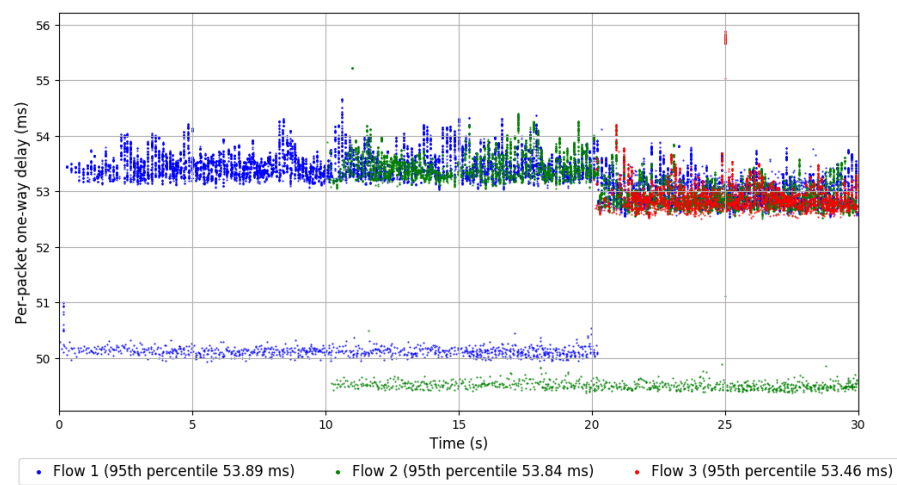
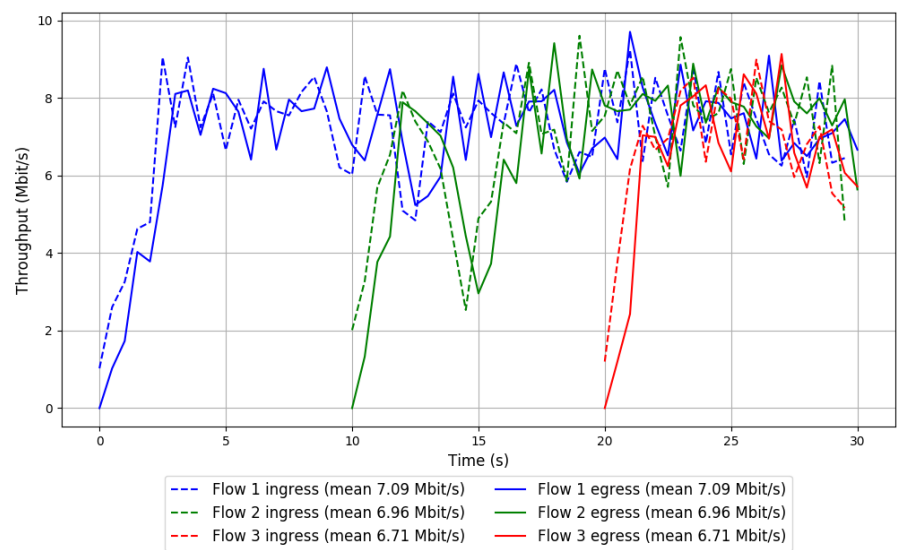
-- Flow 3:

Average throughput: 6.71 Mbit/s

95th percentile per-packet one-way delay: 53.463 ms

Loss rate: 0.00%

Run 6: Report of Sprout — Data Link

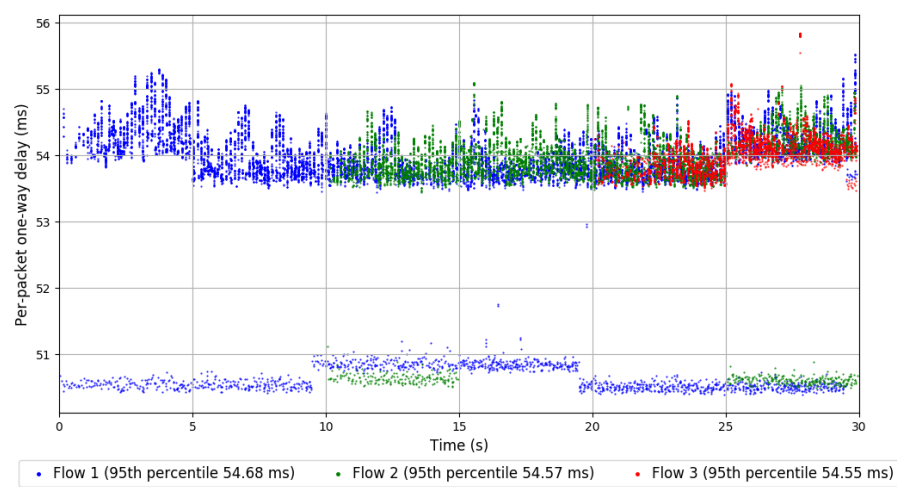
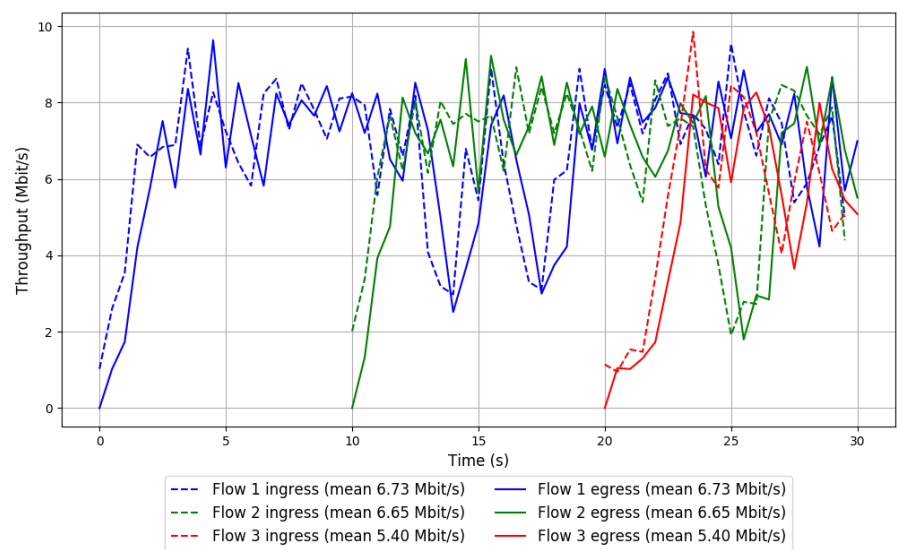


Run 7: Statistics of Sprout

Start at: 2018-05-26 05:14:11
End at: 2018-05-26 05:14:41
Local clock offset: 0.078 ms
Remote clock offset: 0.321 ms

Below is generated by plot.py at 2018-05-26 08:35:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 12.92 Mbit/s
95th percentile per-packet one-way delay: 54.640 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.73 Mbit/s
95th percentile per-packet one-way delay: 54.680 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.65 Mbit/s
95th percentile per-packet one-way delay: 54.568 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 5.40 Mbit/s
95th percentile per-packet one-way delay: 54.546 ms
Loss rate: 0.00%

Run 7: Report of Sprout — Data Link

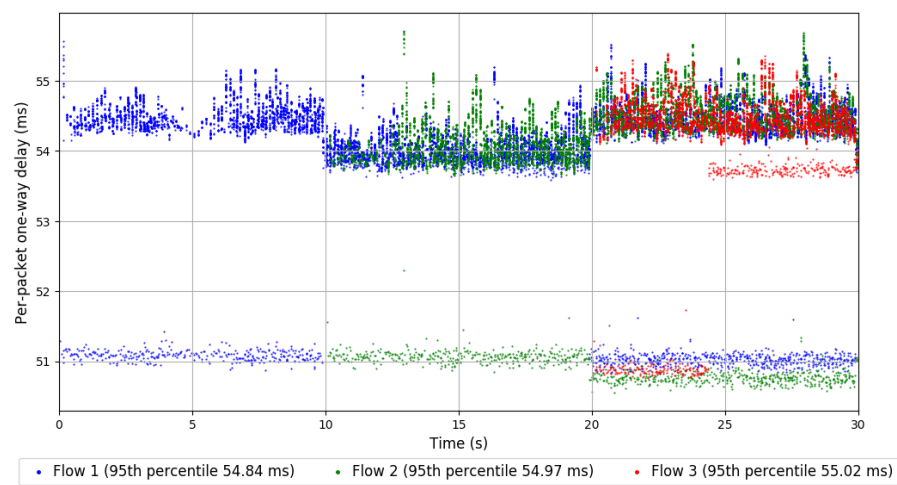
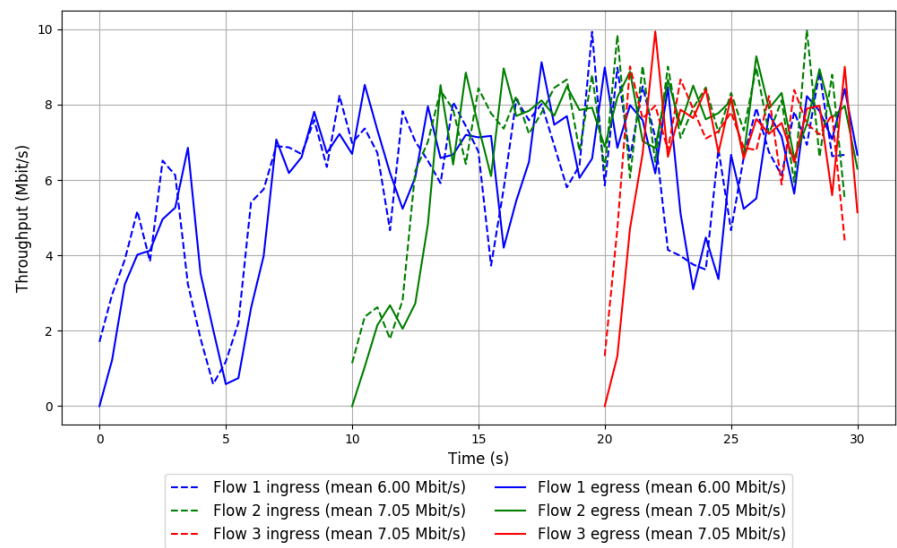


Run 8: Statistics of Sprout

Start at: 2018-05-26 05:37:06
End at: 2018-05-26 05:37:36
Local clock offset: -0.459 ms
Remote clock offset: -0.023 ms

```
# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 13.02 Mbit/s
95th percentile per-packet one-way delay: 54.928 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 6.00 Mbit/s
95th percentile per-packet one-way delay: 54.839 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 54.969 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 7.05 Mbit/s
95th percentile per-packet one-way delay: 55.024 ms
Loss rate: 0.00%
```

Run 8: Report of Sprout — Data Link



Run 9: Statistics of Sprout

Start at: 2018-05-26 05:59:47

End at: 2018-05-26 06:00:17

Local clock offset: 0.079 ms

Remote clock offset: 0.088 ms

Below is generated by plot.py at 2018-05-26 08:35:30

Datalink statistics

-- Total of 3 flows:

Average throughput: 13.29 Mbit/s

95th percentile per-packet one-way delay: 54.290 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 6.90 Mbit/s

95th percentile per-packet one-way delay: 54.186 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 7.05 Mbit/s

95th percentile per-packet one-way delay: 54.362 ms

Loss rate: 0.00%

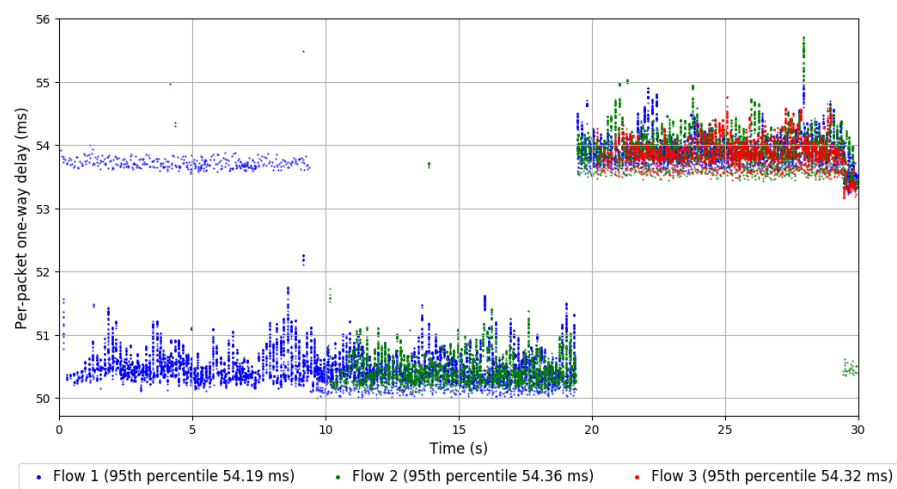
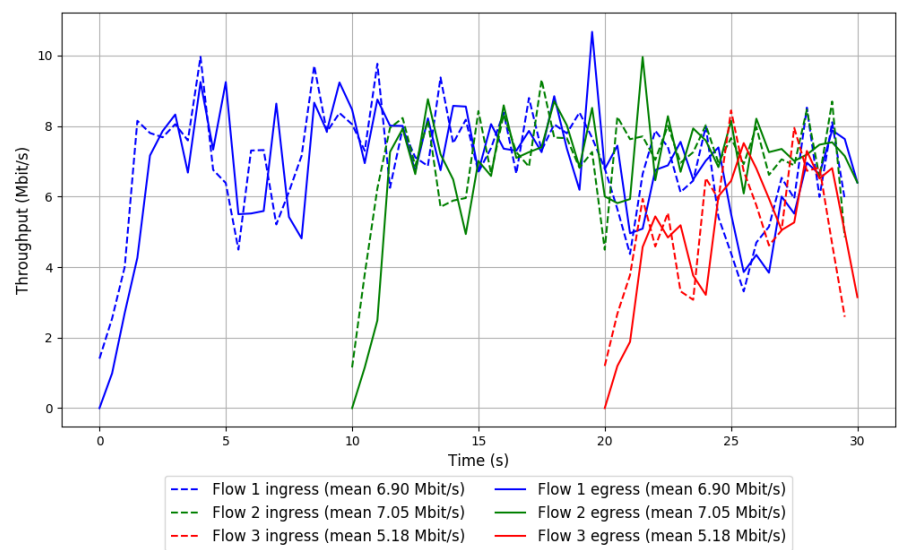
-- Flow 3:

Average throughput: 5.18 Mbit/s

95th percentile per-packet one-way delay: 54.322 ms

Loss rate: 0.00%

Run 9: Report of Sprout — Data Link

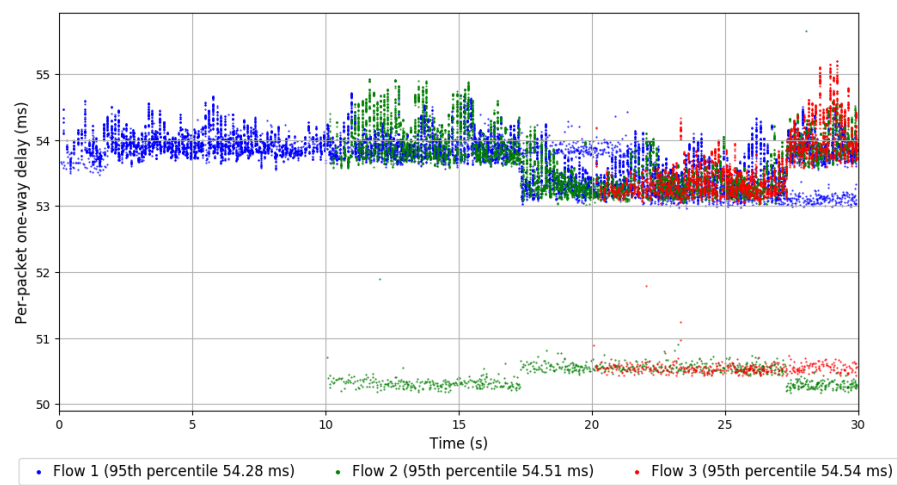
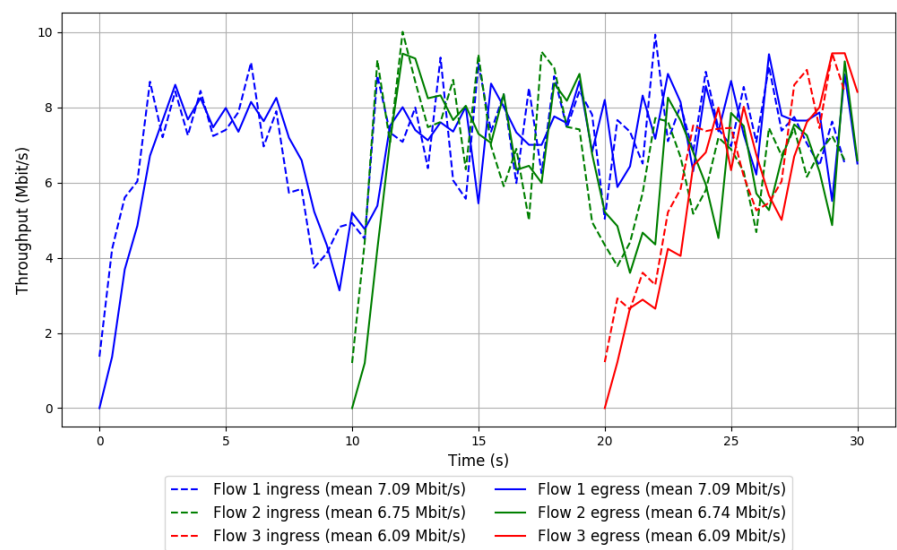


Run 10: Statistics of Sprout

Start at: 2018-05-26 06:22:59
End at: 2018-05-26 06:23:29
Local clock offset: -0.004 ms
Remote clock offset: 0.039 ms

Below is generated by plot.py at 2018-05-26 08:35:30
Datalink statistics
-- Total of 3 flows:
Average throughput: 13.58 Mbit/s
95th percentile per-packet one-way delay: 54.391 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 7.09 Mbit/s
95th percentile per-packet one-way delay: 54.277 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 6.74 Mbit/s
95th percentile per-packet one-way delay: 54.507 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 6.09 Mbit/s
95th percentile per-packet one-way delay: 54.536 ms
Loss rate: 0.00%

Run 10: Report of Sprout — Data Link

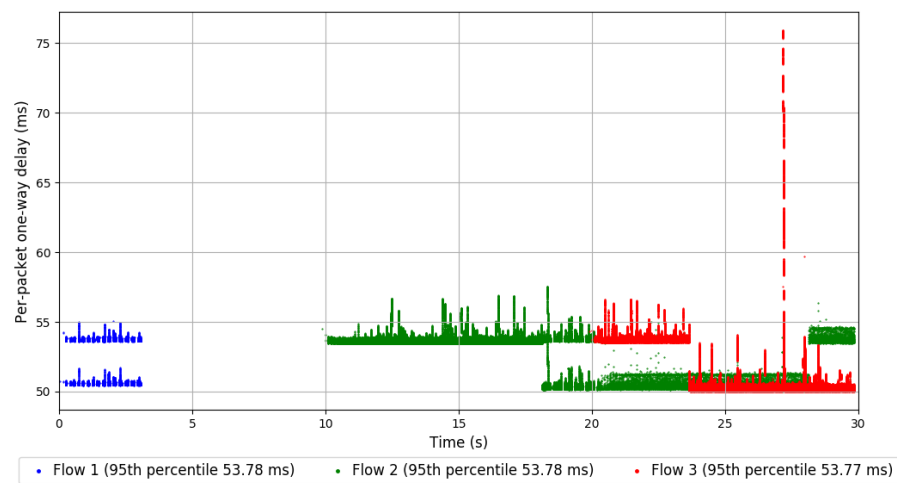
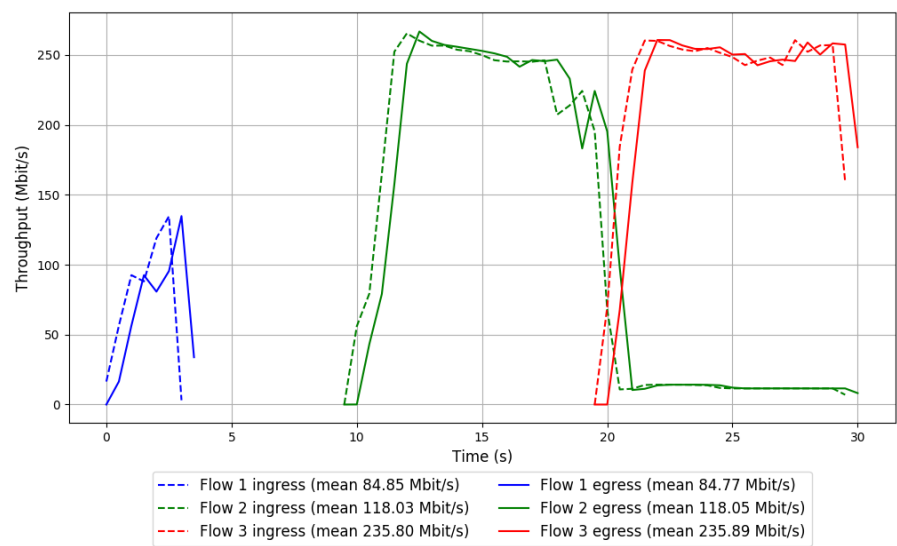


```
Run 1: Statistics of TaoVA-100x

Start at: 2018-05-26 02:54:43
End at: 2018-05-26 02:55:13
Local clock offset: -0.154 ms
Remote clock offset: 0.209 ms

# Below is generated by plot.py at 2018-05-26 08:35:30
# Datalink statistics
-- Total of 3 flows:
Average throughput: 166.46 Mbit/s
95th percentile per-packet one-way delay: 53.777 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 84.77 Mbit/s
95th percentile per-packet one-way delay: 53.782 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 118.05 Mbit/s
95th percentile per-packet one-way delay: 53.783 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 235.89 Mbit/s
95th percentile per-packet one-way delay: 53.770 ms
Loss rate: 0.00%
```

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

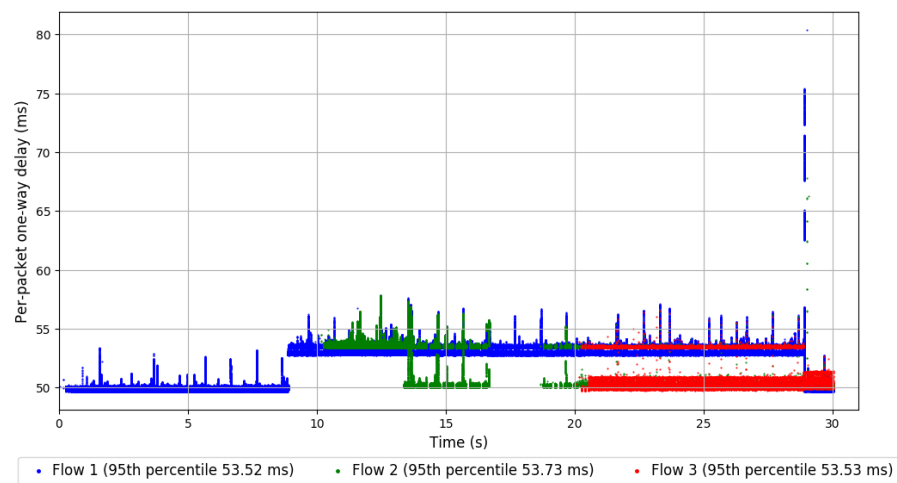
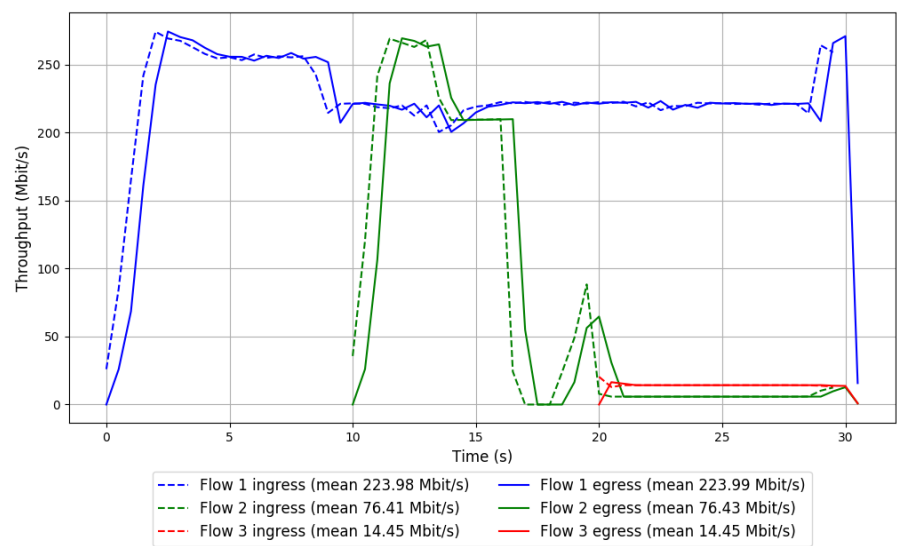


Run 2: Statistics of TaoVA-100x

Start at: 2018-05-26 03:17:37
End at: 2018-05-26 03:18:08
Local clock offset: -0.337 ms
Remote clock offset: -0.103 ms

Below is generated by plot.py at 2018-05-26 08:39:01
Datalink statistics
-- Total of 3 flows:
Average throughput: 279.68 Mbit/s
95th percentile per-packet one-way delay: 53.609 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 223.99 Mbit/s
95th percentile per-packet one-way delay: 53.523 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 76.43 Mbit/s
95th percentile per-packet one-way delay: 53.728 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 14.45 Mbit/s
95th percentile per-packet one-way delay: 53.531 ms
Loss rate: 0.00%

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



Run 3: Statistics of TaoVA-100x

Start at: 2018-05-26 03:41:01

End at: 2018-05-26 03:41:31

Local clock offset: -0.451 ms

Remote clock offset: 0.362 ms

Below is generated by plot.py at 2018-05-26 08:42:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 390.35 Mbit/s

95th percentile per-packet one-way delay: 54.312 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 233.79 Mbit/s

95th percentile per-packet one-way delay: 54.316 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 203.26 Mbit/s

95th percentile per-packet one-way delay: 54.307 ms

Loss rate: 0.00%

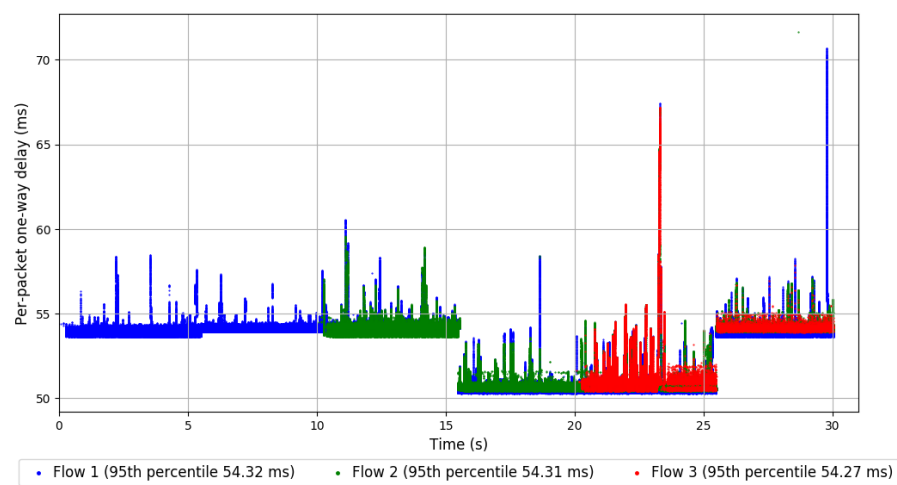
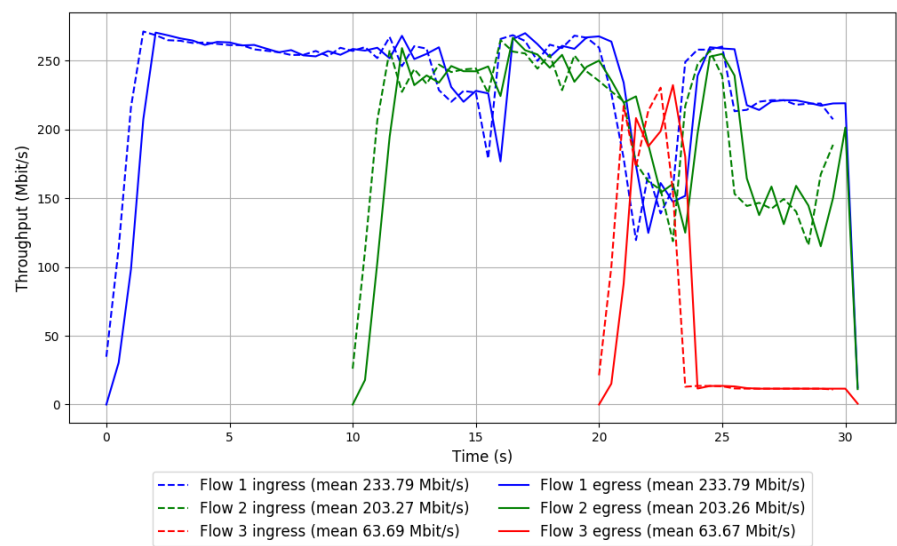
-- Flow 3:

Average throughput: 63.67 Mbit/s

95th percentile per-packet one-way delay: 54.271 ms

Loss rate: 0.00%

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



Run 4: Statistics of TaoVA-100x

Start at: 2018-05-26 04:04:05

End at: 2018-05-26 04:04:35

Local clock offset: -0.463 ms

Remote clock offset: 0.109 ms

Below is generated by plot.py at 2018-05-26 08:42:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 101.46 Mbit/s

95th percentile per-packet one-way delay: 54.120 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 13.43 Mbit/s

95th percentile per-packet one-way delay: 53.697 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 22.56 Mbit/s

95th percentile per-packet one-way delay: 53.625 ms

Loss rate: 0.00%

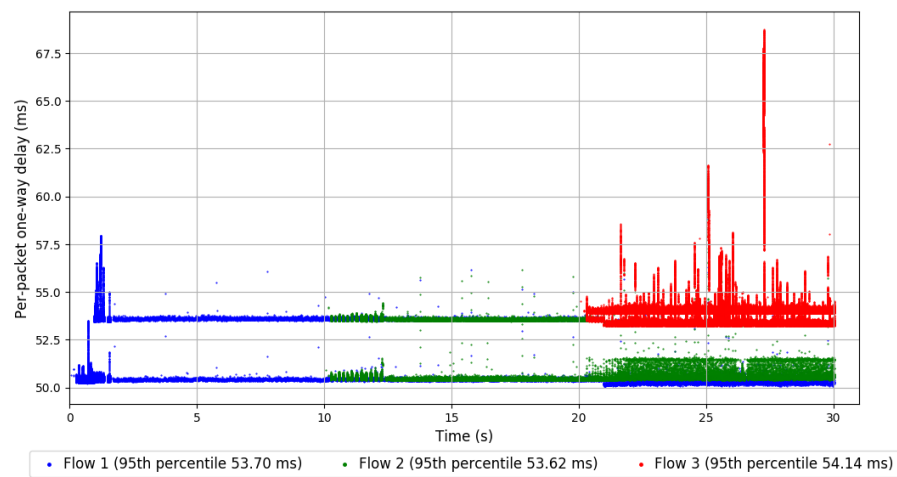
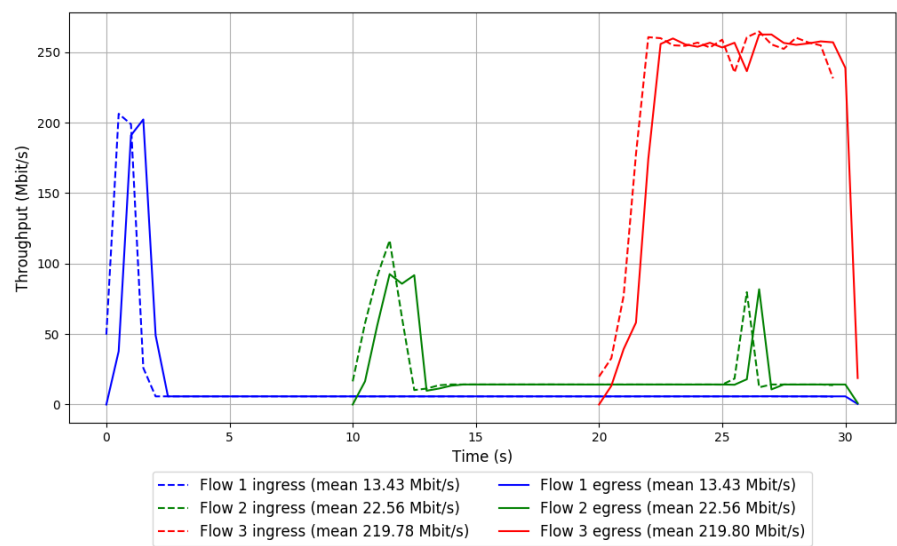
-- Flow 3:

Average throughput: 219.80 Mbit/s

95th percentile per-packet one-way delay: 54.142 ms

Loss rate: 0.00%

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

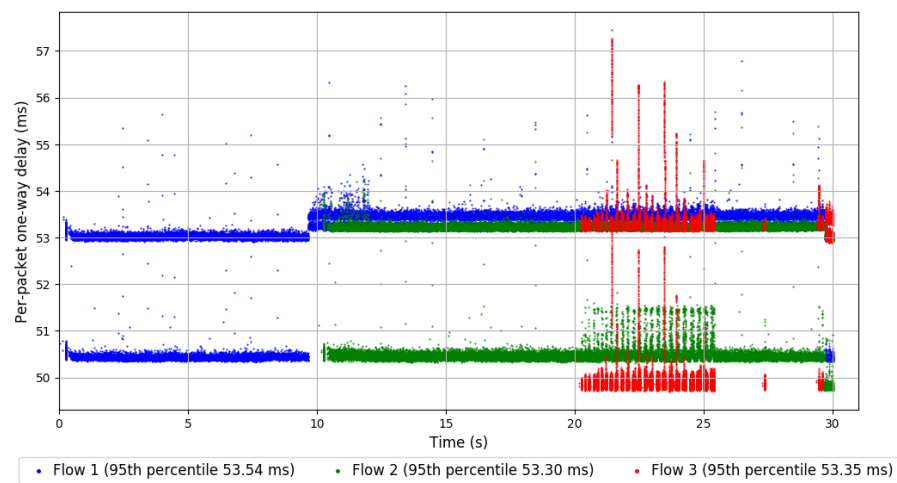
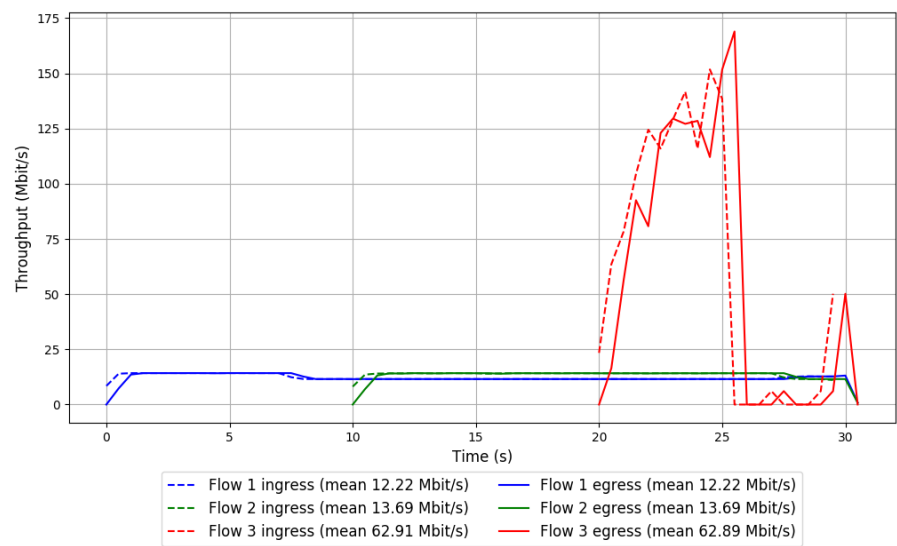


Run 5: Statistics of TaoVA-100x

Start at: 2018-05-26 04:26:57
End at: 2018-05-26 04:27:27
Local clock offset: -0.182 ms
Remote clock offset: -0.269 ms

Below is generated by plot.py at 2018-05-26 08:42:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 42.18 Mbit/s
95th percentile per-packet one-way delay: 53.473 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 12.22 Mbit/s
95th percentile per-packet one-way delay: 53.536 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.69 Mbit/s
95th percentile per-packet one-way delay: 53.299 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 62.89 Mbit/s
95th percentile per-packet one-way delay: 53.355 ms
Loss rate: 0.00%

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



Run 6: Statistics of TaoVA-100x

Start at: 2018-05-26 04:49:44

End at: 2018-05-26 04:50:14

Local clock offset: 0.063 ms

Remote clock offset: 0.328 ms

Below is generated by plot.py at 2018-05-26 08:42:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 167.75 Mbit/s

95th percentile per-packet one-way delay: 54.036 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 11.71 Mbit/s

95th percentile per-packet one-way delay: 53.986 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 178.50 Mbit/s

95th percentile per-packet one-way delay: 54.017 ms

Loss rate: 0.00%

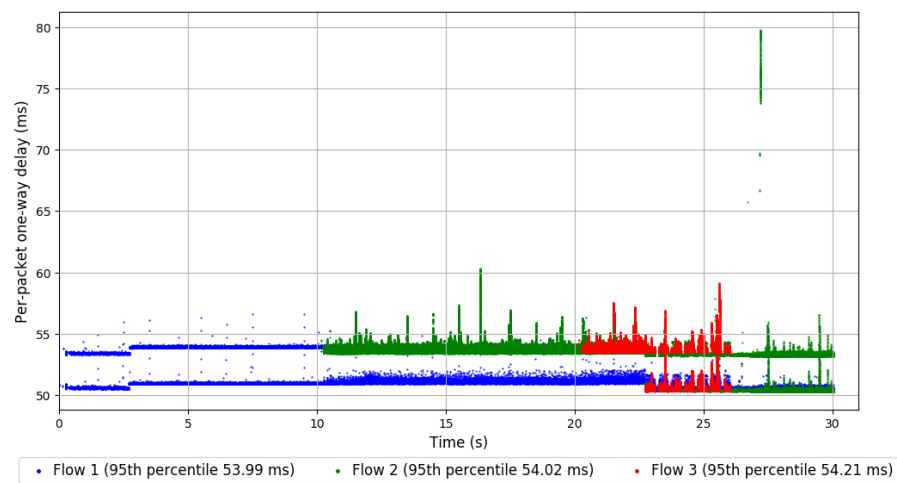
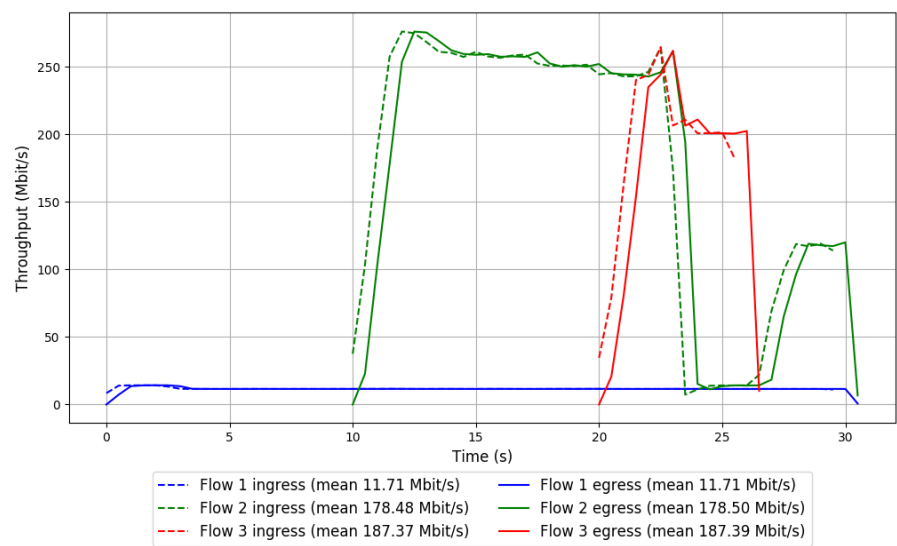
-- Flow 3:

Average throughput: 187.39 Mbit/s

95th percentile per-packet one-way delay: 54.207 ms

Loss rate: 0.00%

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



Run 7: Statistics of TaoVA-100x

Start at: 2018-05-26 05:12:50

End at: 2018-05-26 05:13:20

Local clock offset: 0.25 ms

Remote clock offset: 0.107 ms

Below is generated by plot.py at 2018-05-26 08:42:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 128.10 Mbit/s

95th percentile per-packet one-way delay: 53.785 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 114.79 Mbit/s

95th percentile per-packet one-way delay: 53.792 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 13.07 Mbit/s

95th percentile per-packet one-way delay: 53.575 ms

Loss rate: 0.00%

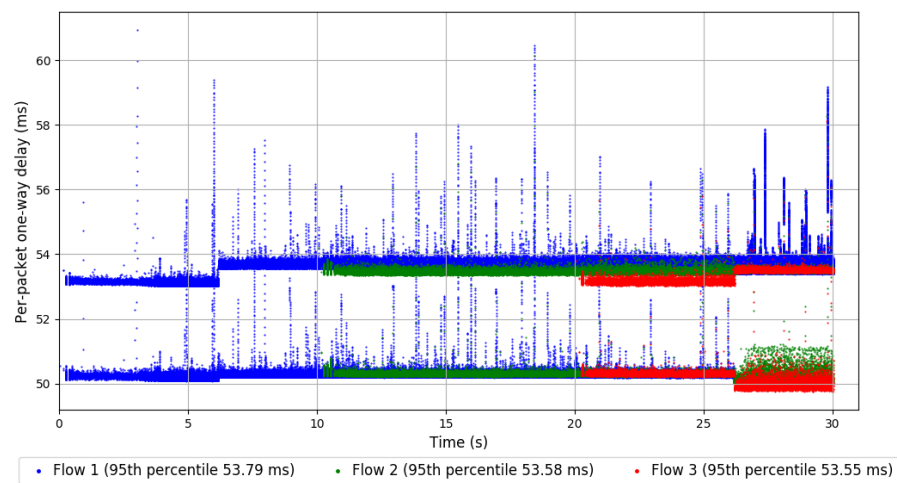
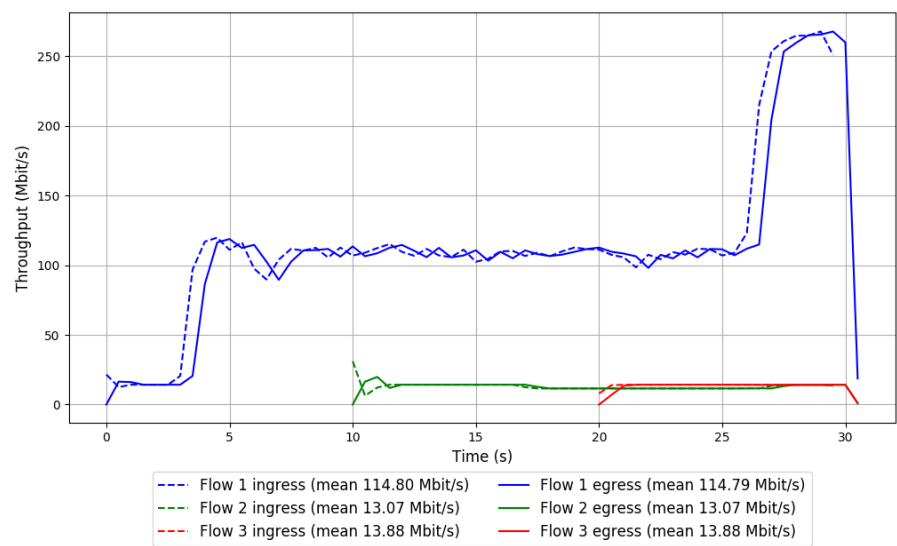
-- Flow 3:

Average throughput: 13.88 Mbit/s

95th percentile per-packet one-way delay: 53.547 ms

Loss rate: 0.00%

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



Run 8: Statistics of TaoVA-100x

Start at: 2018-05-26 05:35:52

End at: 2018-05-26 05:36:22

Local clock offset: -0.015 ms

Remote clock offset: 0.297 ms

Below is generated by plot.py at 2018-05-26 08:42:46

Datalink statistics

-- Total of 3 flows:

Average throughput: 73.02 Mbit/s

95th percentile per-packet one-way delay: 54.041 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 51.19 Mbit/s

95th percentile per-packet one-way delay: 54.011 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 12.96 Mbit/s

95th percentile per-packet one-way delay: 54.085 ms

Loss rate: 0.00%

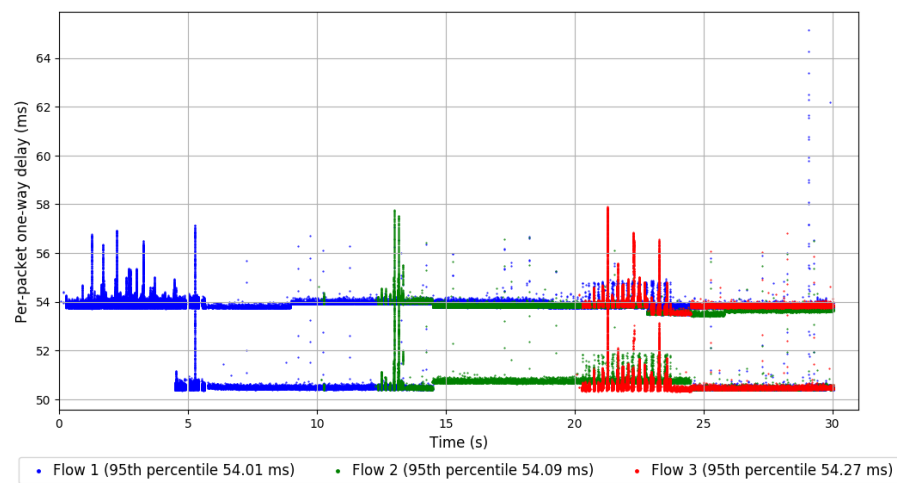
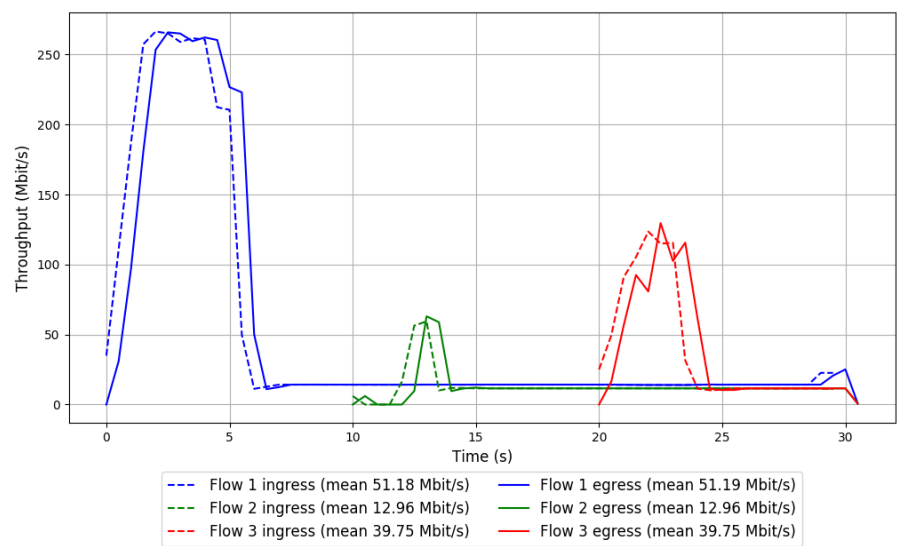
-- Flow 3:

Average throughput: 39.75 Mbit/s

95th percentile per-packet one-way delay: 54.272 ms

Loss rate: 0.00%

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

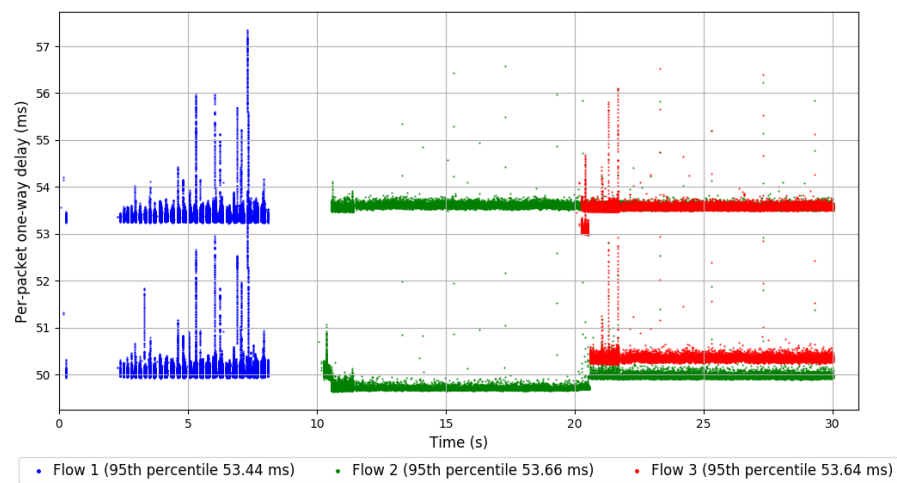
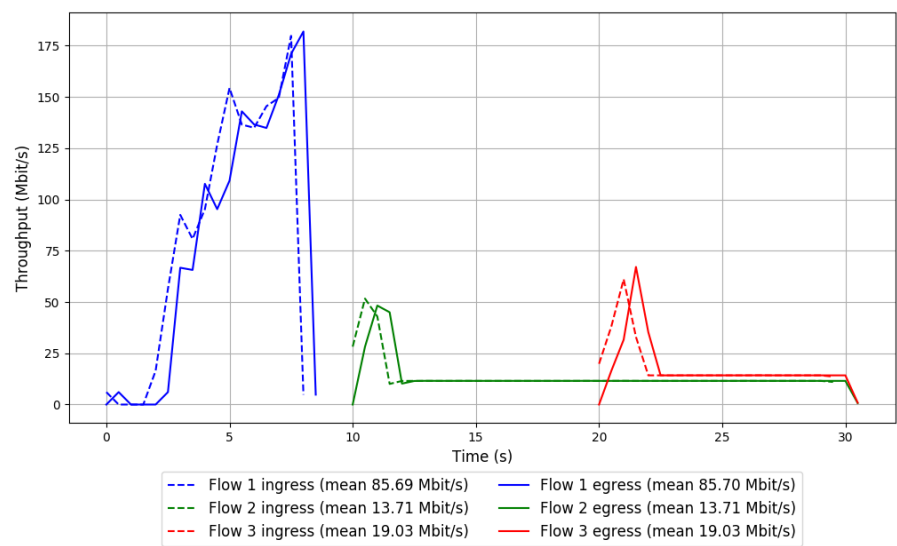


Run 9: Statistics of TaoVA-100x

Start at: 2018-05-26 05:58:36
End at: 2018-05-26 05:59:06
Local clock offset: 0.09 ms
Remote clock offset: -0.009 ms

Below is generated by plot.py at 2018-05-26 08:42:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 38.47 Mbit/s
95th percentile per-packet one-way delay: 53.615 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 85.70 Mbit/s
95th percentile per-packet one-way delay: 53.442 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 13.71 Mbit/s
95th percentile per-packet one-way delay: 53.656 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 19.03 Mbit/s
95th percentile per-packet one-way delay: 53.637 ms
Loss rate: 0.00%

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



Run 10: Statistics of TaoVA-100x

Start at: 2018-05-26 06:21:29

End at: 2018-05-26 06:21:59

Local clock offset: 0.432 ms

Remote clock offset: 0.249 ms

Below is generated by plot.py at 2018-05-26 08:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.33 Mbit/s

95th percentile per-packet one-way delay: 53.525 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 68.45 Mbit/s

95th percentile per-packet one-way delay: 53.458 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 237.36 Mbit/s

95th percentile per-packet one-way delay: 53.558 ms

Loss rate: 0.00%

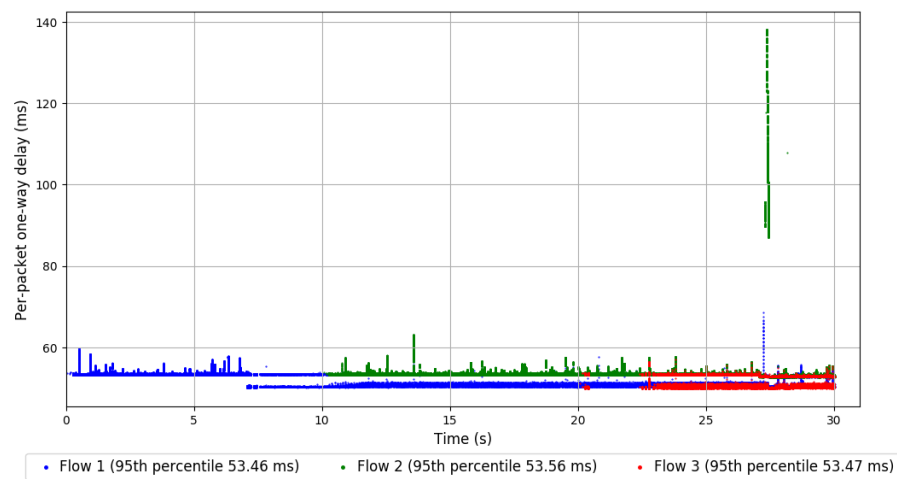
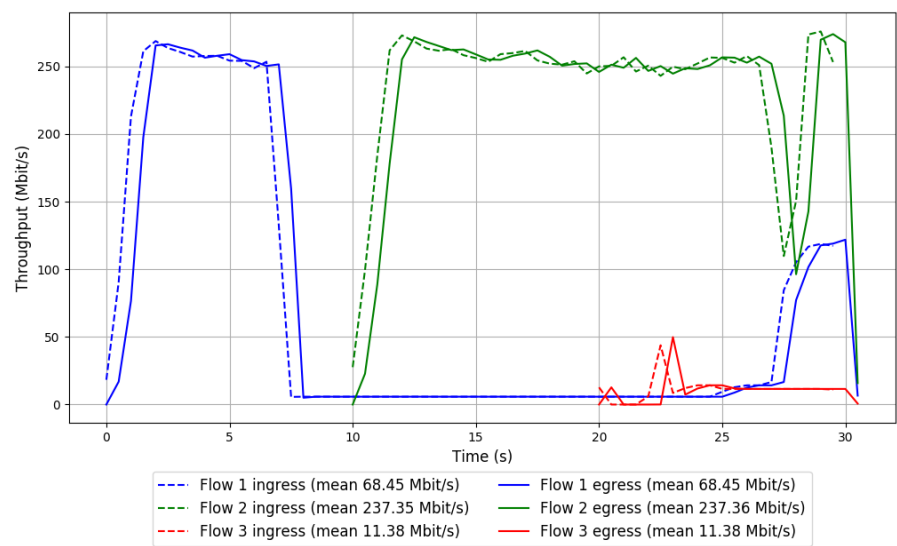
-- Flow 3:

Average throughput: 11.38 Mbit/s

95th percentile per-packet one-way delay: 53.474 ms

Loss rate: 0.00%

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



Run 1: Statistics of TCP Vegas

Start at: 2018-05-26 02:58:44

End at: 2018-05-26 02:59:14

Local clock offset: -0.311 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-05-26 08:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 146.03 Mbit/s

95th percentile per-packet one-way delay: 59.894 ms

Loss rate: 0.02%

-- Flow 1:

Average throughput: 56.81 Mbit/s

95th percentile per-packet one-way delay: 59.977 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 31.11 Mbit/s

95th percentile per-packet one-way delay: 56.528 ms

Loss rate: 0.00%

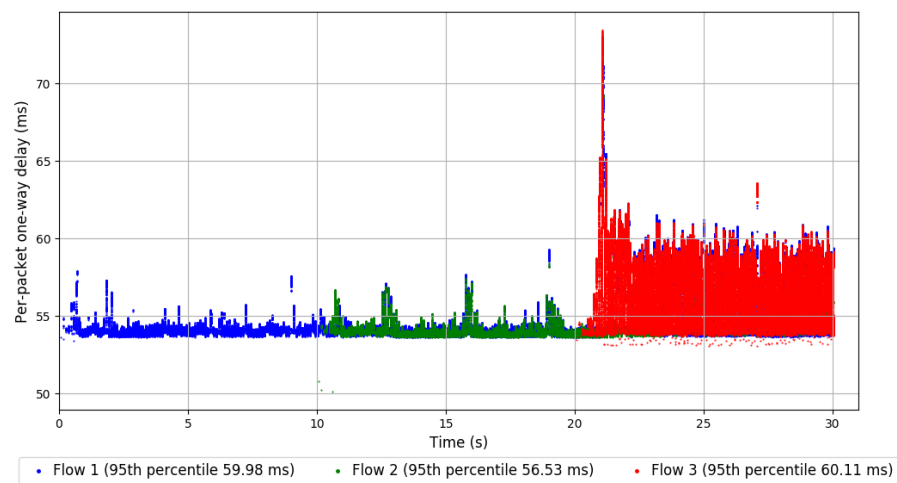
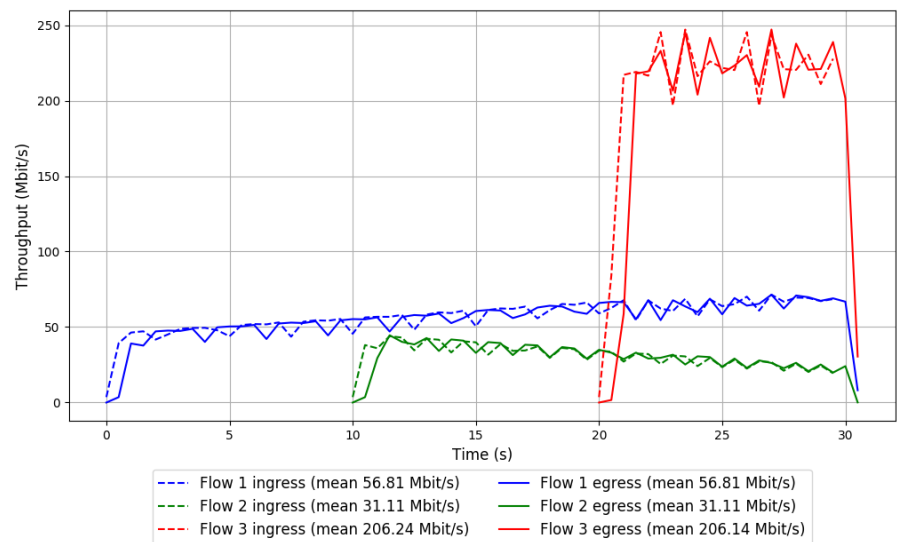
-- Flow 3:

Average throughput: 206.14 Mbit/s

95th percentile per-packet one-way delay: 60.114 ms

Loss rate: 0.05%

Run 1: Report of TCP Vegas — Data Link



Run 2: Statistics of TCP Vegas

Start at: 2018-05-26 03:21:49

End at: 2018-05-26 03:22:19

Local clock offset: -0.367 ms

Remote clock offset: 0.399 ms

Below is generated by plot.py at 2018-05-26 08:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 158.52 Mbit/s

95th percentile per-packet one-way delay: 59.159 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 85.62 Mbit/s

95th percentile per-packet one-way delay: 58.978 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 19.26 Mbit/s

95th percentile per-packet one-way delay: 58.668 ms

Loss rate: 0.00%

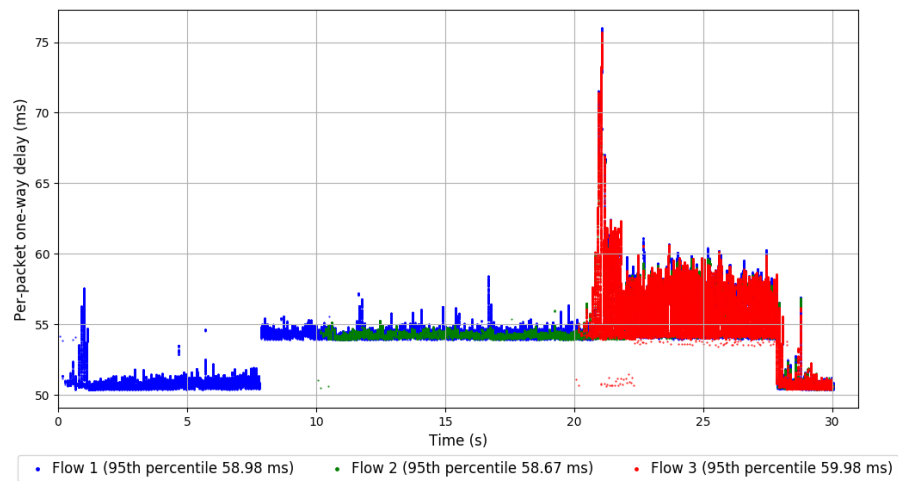
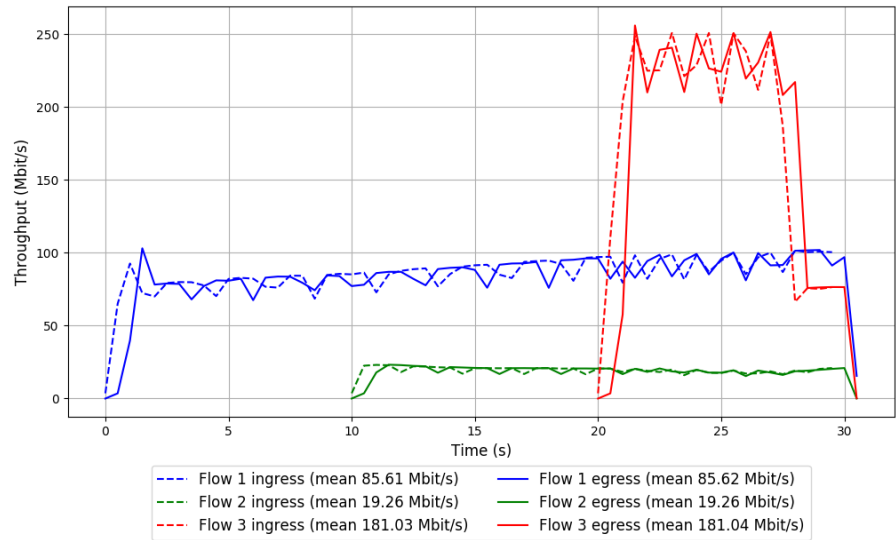
-- Flow 3:

Average throughput: 181.04 Mbit/s

95th percentile per-packet one-way delay: 59.984 ms

Loss rate: 0.00%

Run 2: Report of TCP Vegas — Data Link

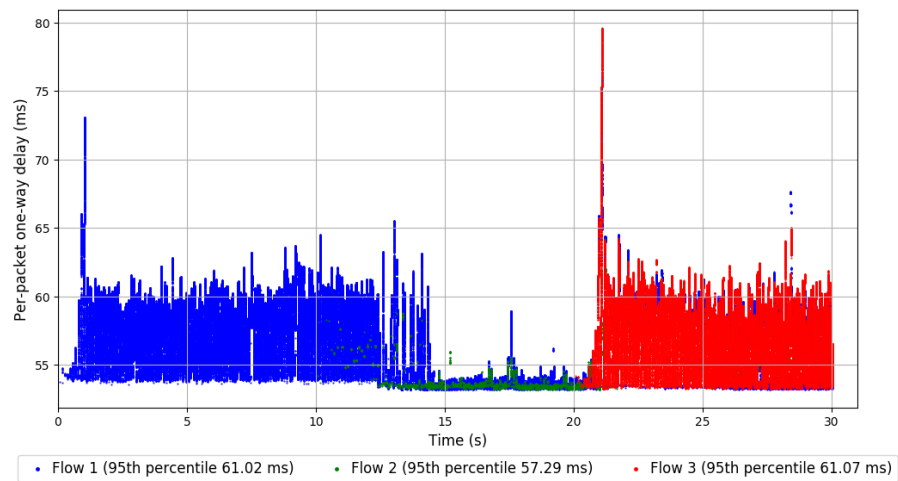
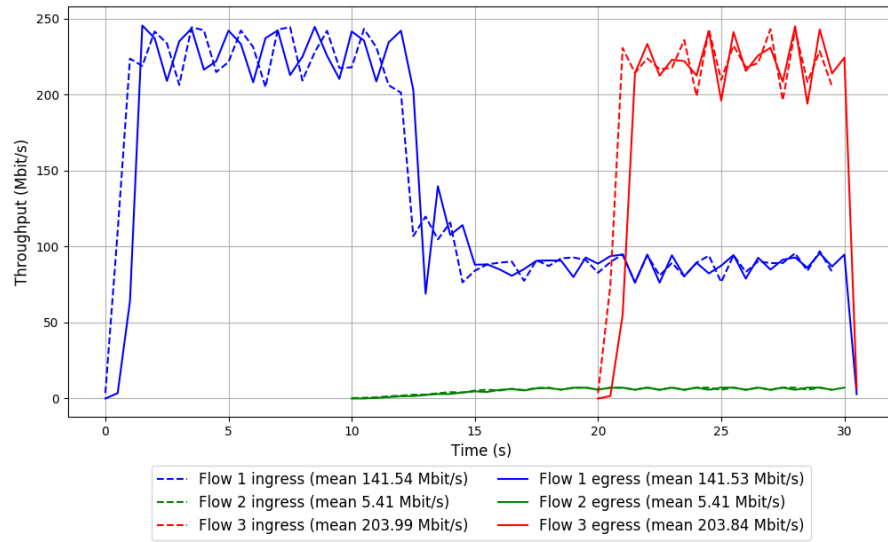


Run 3: Statistics of TCP Vegas

Start at: 2018-05-26 03:45:24
End at: 2018-05-26 03:45:54
Local clock offset: -0.44 ms
Remote clock offset: -0.062 ms

Below is generated by plot.py at 2018-05-26 08:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 212.85 Mbit/s
95th percentile per-packet one-way delay: 61.024 ms
Loss rate: 0.03%
-- Flow 1:
Average throughput: 141.53 Mbit/s
95th percentile per-packet one-way delay: 61.018 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 5.41 Mbit/s
95th percentile per-packet one-way delay: 57.294 ms
Loss rate: 0.11%
-- Flow 3:
Average throughput: 203.84 Mbit/s
95th percentile per-packet one-way delay: 61.067 ms
Loss rate: 0.08%

Run 3: Report of TCP Vegas — Data Link

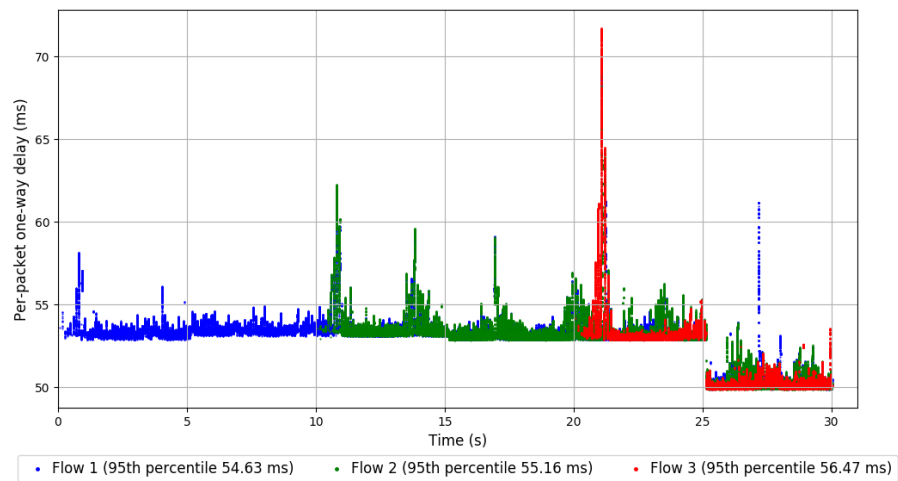
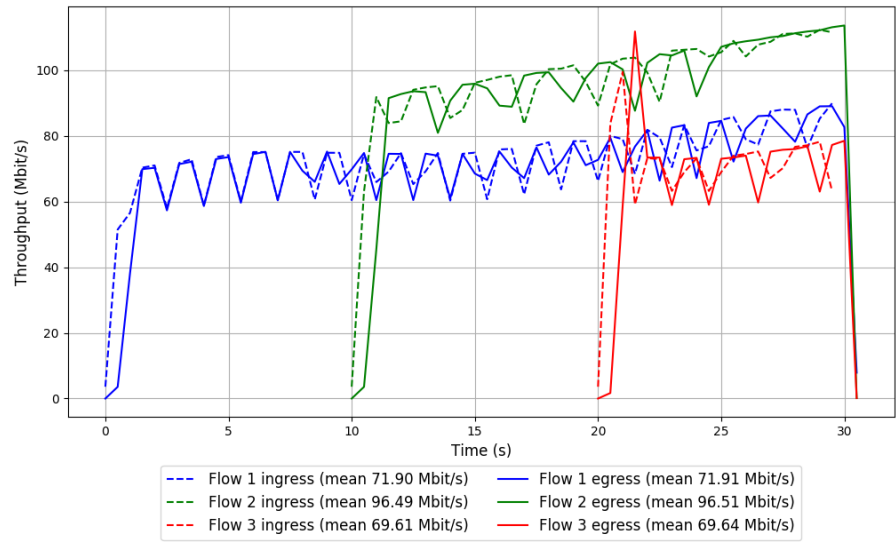


Run 4: Statistics of TCP Vegas

Start at: 2018-05-26 04:08:01
End at: 2018-05-26 04:08:31
Local clock offset: -0.271 ms
Remote clock offset: -0.185 ms

Below is generated by plot.py at 2018-05-26 08:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 159.29 Mbit/s
95th percentile per-packet one-way delay: 55.016 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 71.91 Mbit/s
95th percentile per-packet one-way delay: 54.632 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 96.51 Mbit/s
95th percentile per-packet one-way delay: 55.155 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 69.64 Mbit/s
95th percentile per-packet one-way delay: 56.468 ms
Loss rate: 0.00%

Run 4: Report of TCP Vegas — Data Link

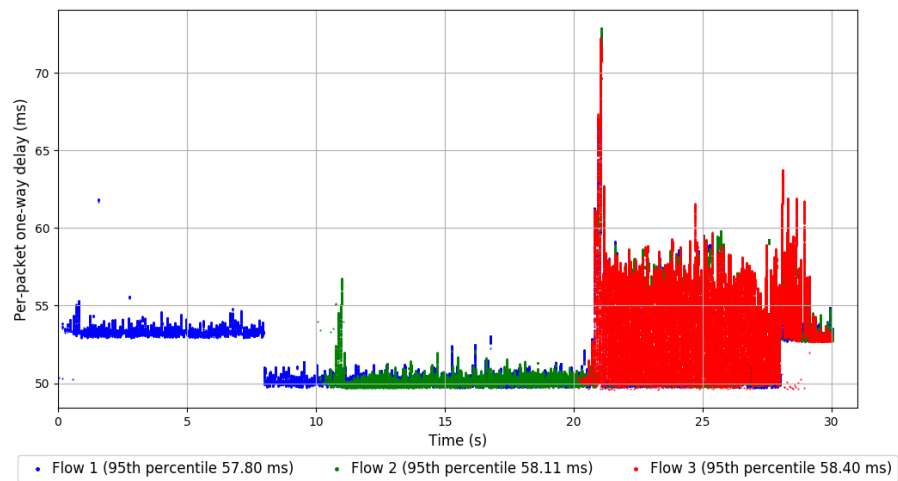
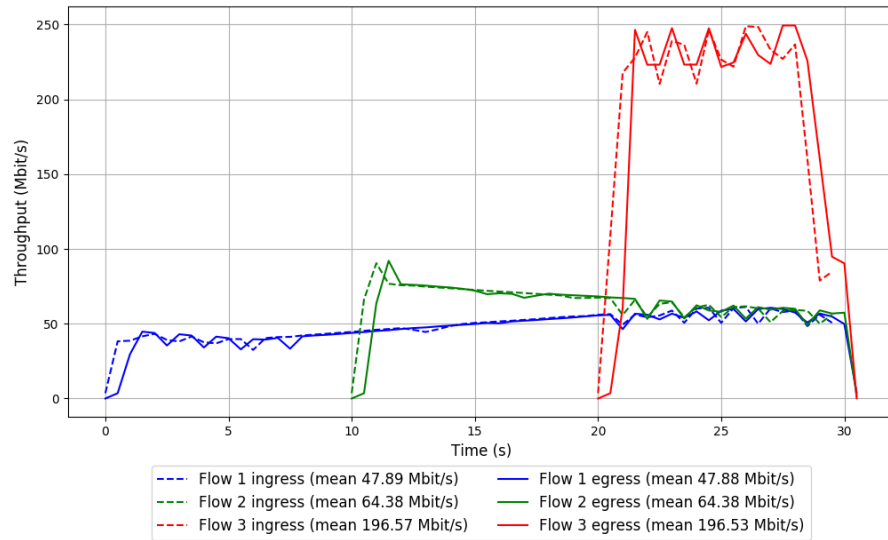


Run 5: Statistics of TCP Vegas

Start at: 2018-05-26 04:30:48
End at: 2018-05-26 04:31:18
Local clock offset: 0.08 ms
Remote clock offset: -0.235 ms

Below is generated by plot.py at 2018-05-26 08:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 156.01 Mbit/s
95th percentile per-packet one-way delay: 58.157 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 47.88 Mbit/s
95th percentile per-packet one-way delay: 57.797 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 64.38 Mbit/s
95th percentile per-packet one-way delay: 58.110 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 196.53 Mbit/s
95th percentile per-packet one-way delay: 58.402 ms
Loss rate: 0.00%

Run 5: Report of TCP Vegas — Data Link



Run 6: Statistics of TCP Vegas

Start at: 2018-05-26 04:53:44

End at: 2018-05-26 04:54:14

Local clock offset: 0.159 ms

Remote clock offset: 0.06 ms

Below is generated by plot.py at 2018-05-26 08:43:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 242.14 Mbit/s

95th percentile per-packet one-way delay: 59.653 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 210.00 Mbit/s

95th percentile per-packet one-way delay: 59.783 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 11.26 Mbit/s

95th percentile per-packet one-way delay: 57.270 ms

Loss rate: 0.03%

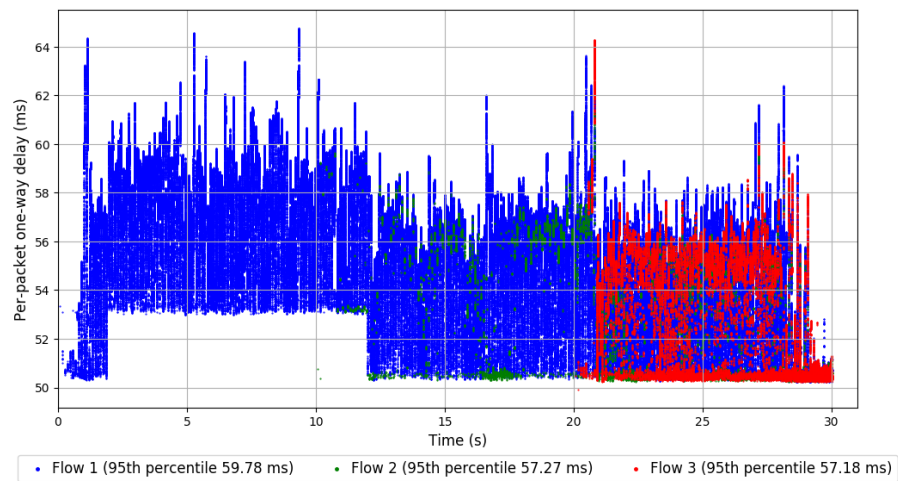
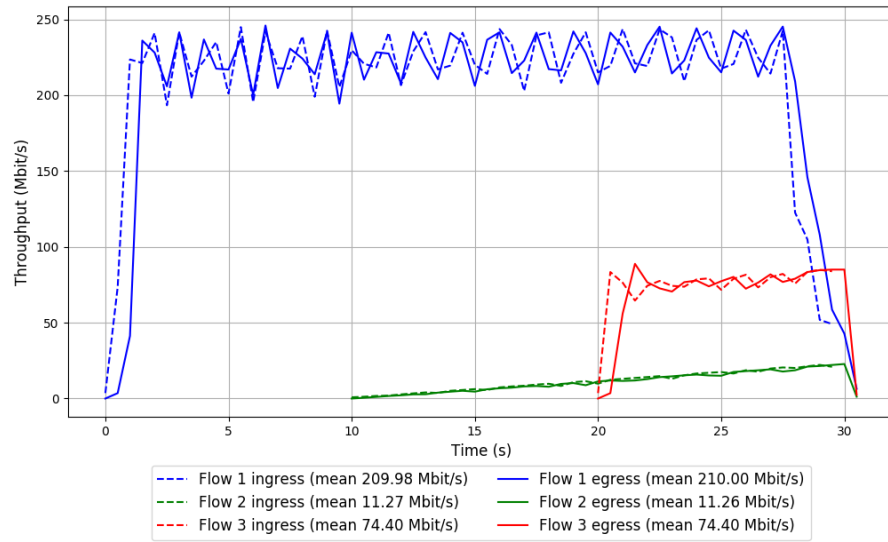
-- Flow 3:

Average throughput: 74.40 Mbit/s

95th percentile per-packet one-way delay: 57.182 ms

Loss rate: 0.00%

Run 6: Report of TCP Vegas — Data Link

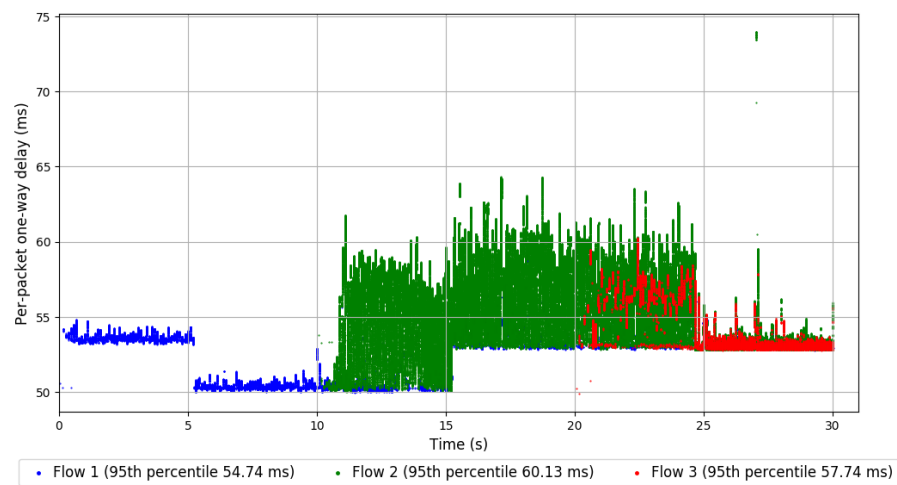
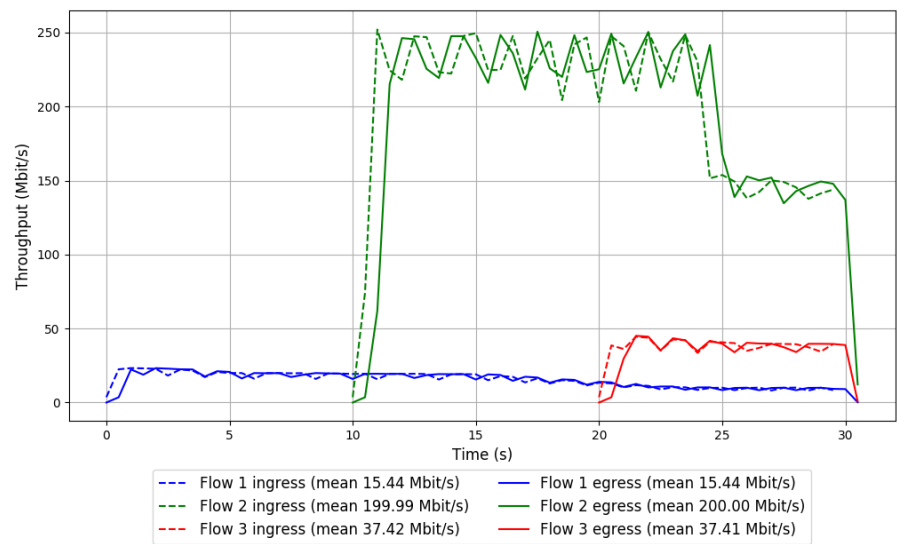


Run 7: Statistics of TCP Vegas

Start at: 2018-05-26 05:16:51
End at: 2018-05-26 05:17:21
Local clock offset: 0.292 ms
Remote clock offset: -0.039 ms

Below is generated by plot.py at 2018-05-26 08:43:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 160.92 Mbit/s
95th percentile per-packet one-way delay: 59.922 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 15.44 Mbit/s
95th percentile per-packet one-way delay: 54.740 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 200.00 Mbit/s
95th percentile per-packet one-way delay: 60.128 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 37.41 Mbit/s
95th percentile per-packet one-way delay: 57.740 ms
Loss rate: 0.00%

Run 7: Report of TCP Vegas — Data Link



Run 8: Statistics of TCP Vegas

Start at: 2018-05-26 05:39:45

End at: 2018-05-26 05:40:15

Local clock offset: 0.41 ms

Remote clock offset: 0.33 ms

Below is generated by plot.py at 2018-05-26 08:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 273.15 Mbit/s

95th percentile per-packet one-way delay: 59.703 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 217.42 Mbit/s

95th percentile per-packet one-way delay: 59.870 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 71.51 Mbit/s

95th percentile per-packet one-way delay: 58.310 ms

Loss rate: 0.00%

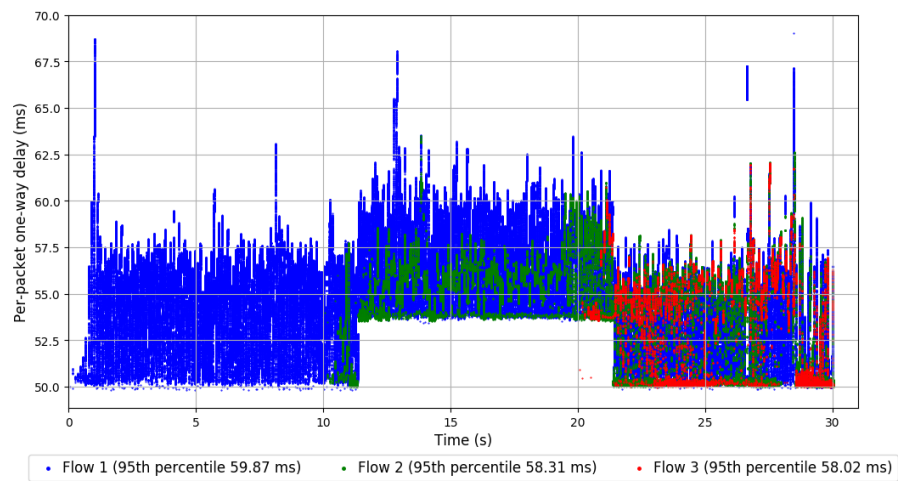
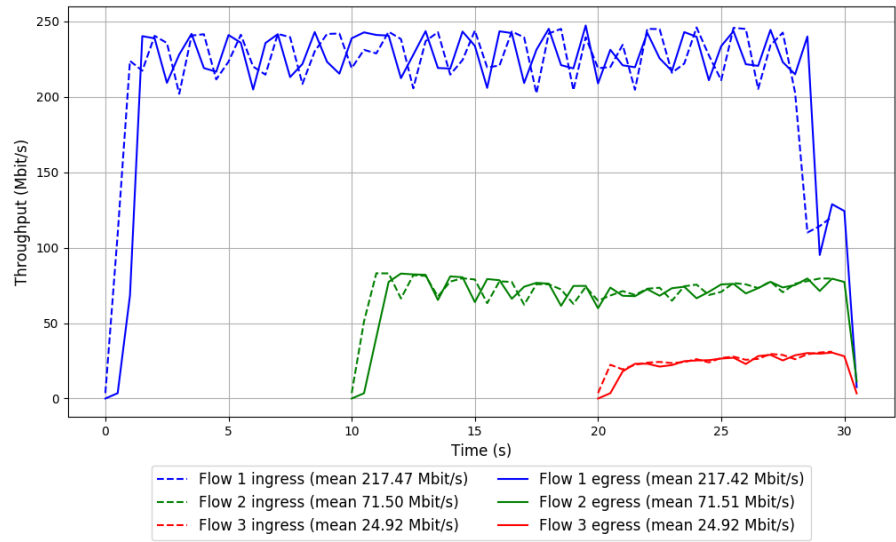
-- Flow 3:

Average throughput: 24.92 Mbit/s

95th percentile per-packet one-way delay: 58.025 ms

Loss rate: 0.00%

Run 8: Report of TCP Vegas — Data Link



Run 9: Statistics of TCP Vegas

Start at: 2018-05-26 06:02:26

End at: 2018-05-26 06:02:56

Local clock offset: -0.196 ms

Remote clock offset: 0.053 ms

Below is generated by plot.py at 2018-05-26 08:43:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 51.21 Mbit/s

95th percentile per-packet one-way delay: 54.438 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 27.69 Mbit/s

95th percentile per-packet one-way delay: 54.310 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 32.39 Mbit/s

95th percentile per-packet one-way delay: 54.522 ms

Loss rate: 0.00%

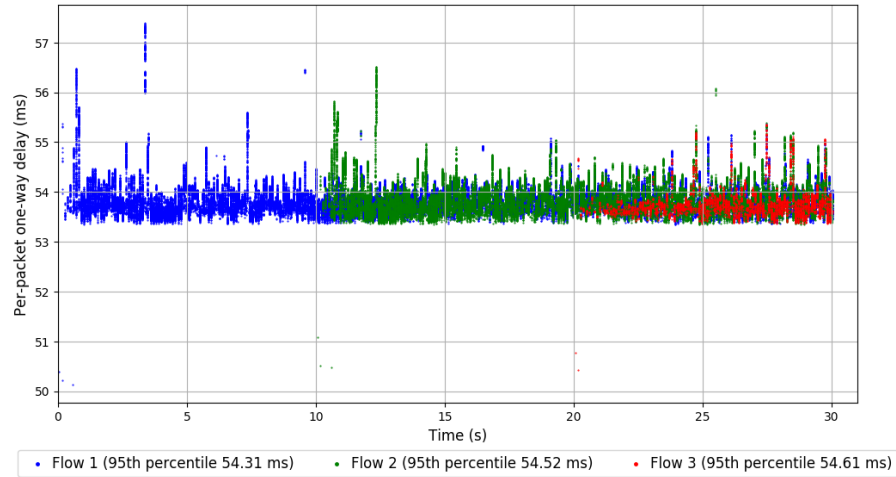
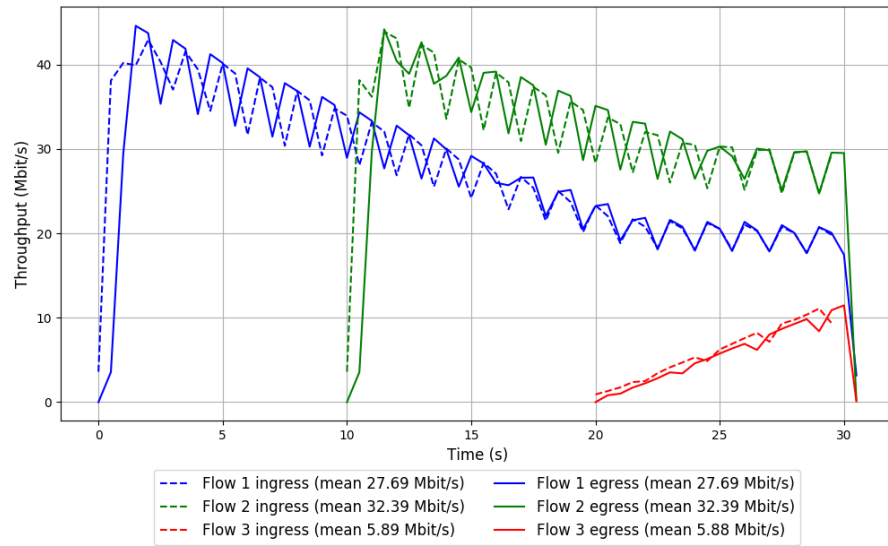
-- Flow 3:

Average throughput: 5.88 Mbit/s

95th percentile per-packet one-way delay: 54.606 ms

Loss rate: 0.08%

Run 9: Report of TCP Vegas — Data Link



Run 10: Statistics of TCP Vegas

Start at: 2018-05-26 06:25:40

End at: 2018-05-26 06:26:10

Local clock offset: -0.019 ms

Remote clock offset: 0.068 ms

Below is generated by plot.py at 2018-05-26 08:43:56

Datalink statistics

-- Total of 3 flows:

Average throughput: 230.91 Mbit/s

95th percentile per-packet one-way delay: 61.644 ms

Loss rate: 0.04%

-- Flow 1:

Average throughput: 131.67 Mbit/s

95th percentile per-packet one-way delay: 61.491 ms

Loss rate: 0.07%

-- Flow 2:

Average throughput: 118.30 Mbit/s

95th percentile per-packet one-way delay: 62.897 ms

Loss rate: 0.00%

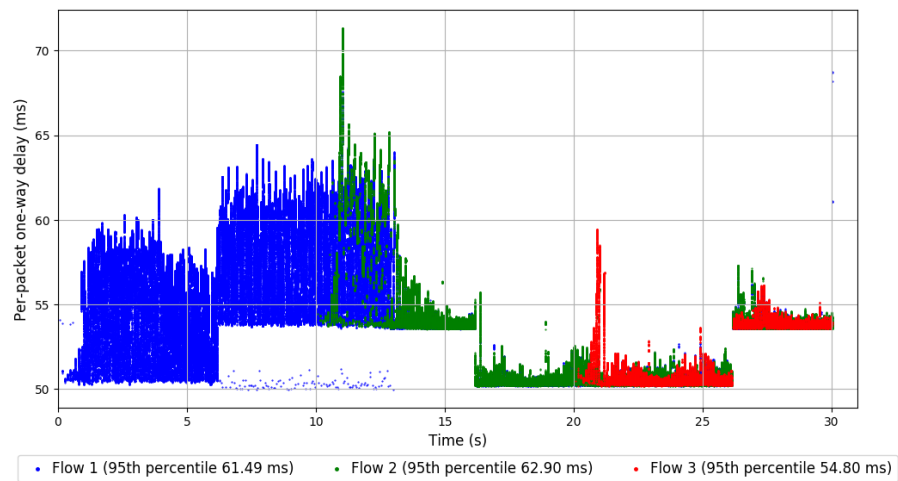
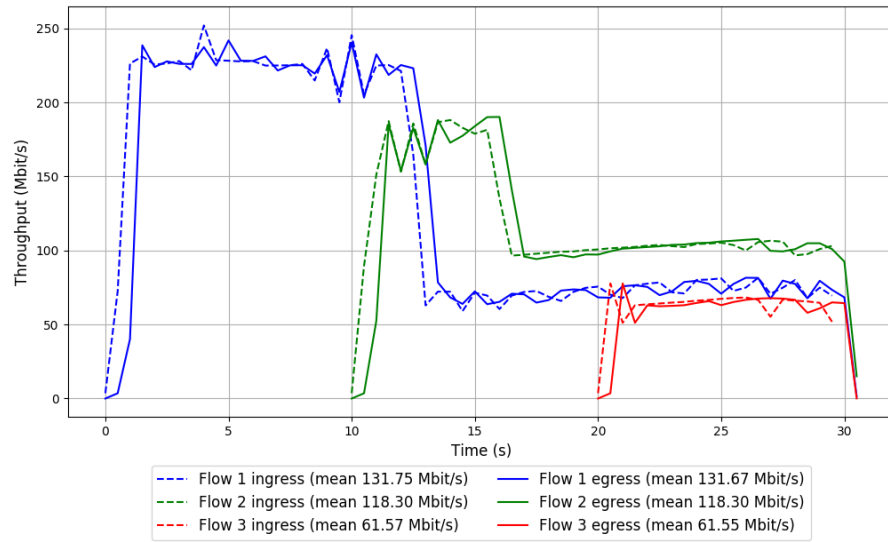
-- Flow 3:

Average throughput: 61.55 Mbit/s

95th percentile per-packet one-way delay: 54.795 ms

Loss rate: 0.00%

Run 10: Report of TCP Vegas — Data Link



Run 1: Statistics of Verus

Start at: 2018-05-26 02:51:47

End at: 2018-05-26 02:52:17

Local clock offset: -0.273 ms

Remote clock offset: 0.451 ms

Below is generated by plot.py at 2018-05-26 08:46:39

Datalink statistics

-- Total of 3 flows:

Average throughput: 369.93 Mbit/s

95th percentile per-packet one-way delay: 111.110 ms

Loss rate: 0.57%

-- Flow 1:

Average throughput: 245.16 Mbit/s

95th percentile per-packet one-way delay: 100.850 ms

Loss rate: 0.10%

-- Flow 2:

Average throughput: 115.69 Mbit/s

95th percentile per-packet one-way delay: 245.622 ms

Loss rate: 2.26%

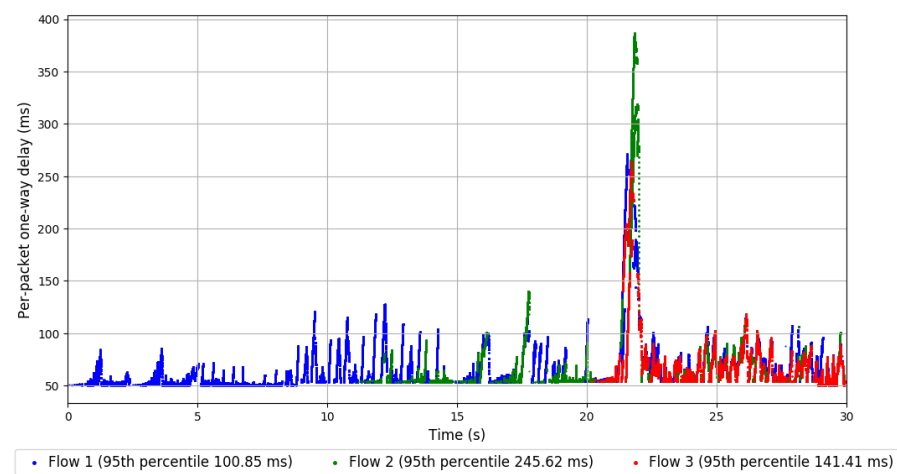
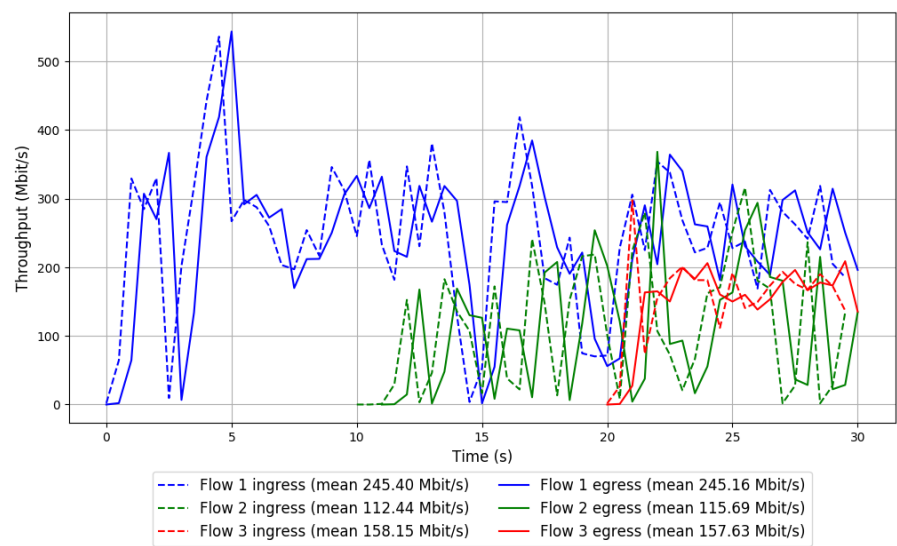
-- Flow 3:

Average throughput: 157.63 Mbit/s

95th percentile per-packet one-way delay: 141.413 ms

Loss rate: 0.37%

Run 1: Report of Verus — Data Link



Run 2: Statistics of Verus

Start at: 2018-05-26 03:14:40

End at: 2018-05-26 03:15:10

Local clock offset: -0.694 ms

Remote clock offset: 0.139 ms

Below is generated by plot.py at 2018-05-26 08:47:27

Datalink statistics

-- Total of 3 flows:

Average throughput: 382.77 Mbit/s

95th percentile per-packet one-way delay: 204.310 ms

Loss rate: 3.90%

-- Flow 1:

Average throughput: 205.80 Mbit/s

95th percentile per-packet one-way delay: 170.744 ms

Loss rate: 1.79%

-- Flow 2:

Average throughput: 217.68 Mbit/s

95th percentile per-packet one-way delay: 210.864 ms

Loss rate: 4.77%

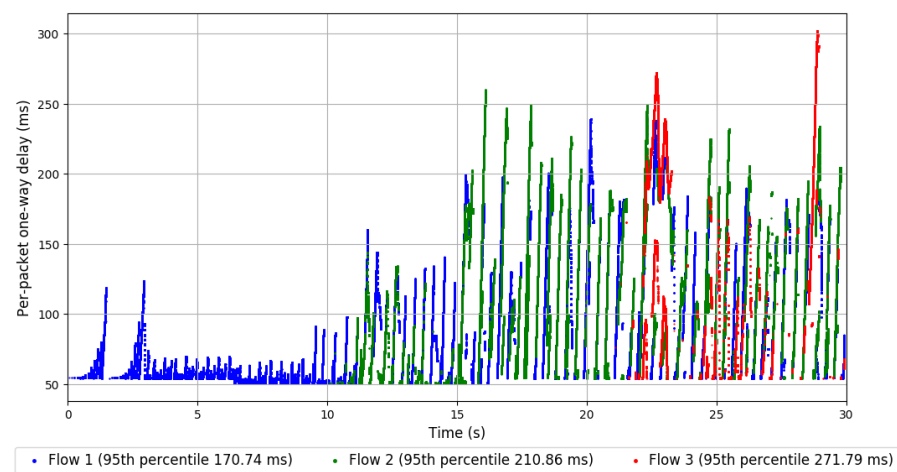
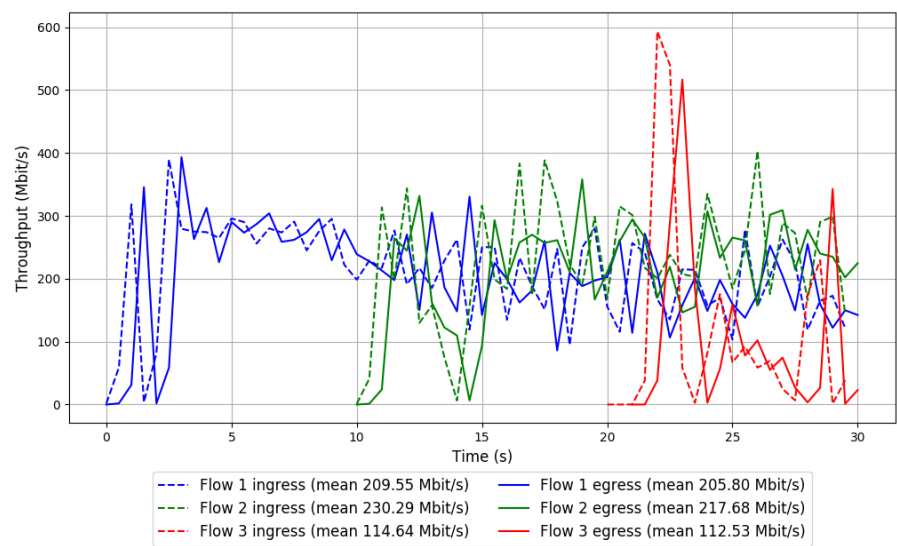
-- Flow 3:

Average throughput: 112.53 Mbit/s

95th percentile per-packet one-way delay: 271.785 ms

Loss rate: 12.09%

Run 2: Report of Verus — Data Link

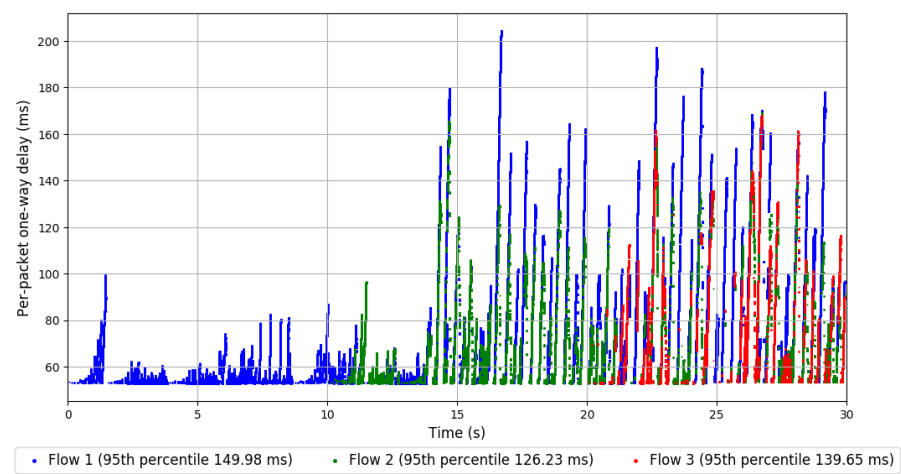
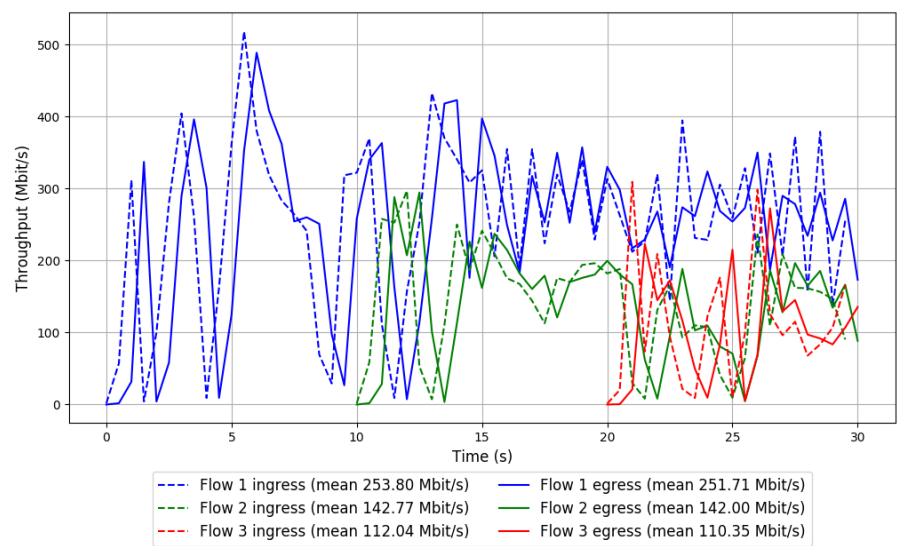


Run 3: Statistics of Verus

Start at: 2018-05-26 03:38:01
End at: 2018-05-26 03:38:31
Local clock offset: -0.184 ms
Remote clock offset: -0.107 ms

Below is generated by plot.py at 2018-05-26 08:48:16
Datalink statistics
-- Total of 3 flows:
Average throughput: 382.46 Mbit/s
95th percentile per-packet one-way delay: 144.281 ms
Loss rate: 0.81%
-- Flow 1:
Average throughput: 251.71 Mbit/s
95th percentile per-packet one-way delay: 149.977 ms
Loss rate: 0.82%
-- Flow 2:
Average throughput: 142.00 Mbit/s
95th percentile per-packet one-way delay: 126.228 ms
Loss rate: 0.51%
-- Flow 3:
Average throughput: 110.35 Mbit/s
95th percentile per-packet one-way delay: 139.649 ms
Loss rate: 1.53%

Run 3: Report of Verus — Data Link



Run 4: Statistics of Verus

Start at: 2018-05-26 04:01:08

End at: 2018-05-26 04:01:38

Local clock offset: -0.195 ms

Remote clock offset: 0.028 ms

Below is generated by plot.py at 2018-05-26 08:49:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 383.33 Mbit/s

95th percentile per-packet one-way delay: 150.220 ms

Loss rate: 1.21%

-- Flow 1:

Average throughput: 183.53 Mbit/s

95th percentile per-packet one-way delay: 98.121 ms

Loss rate: 0.82%

-- Flow 2:

Average throughput: 202.10 Mbit/s

95th percentile per-packet one-way delay: 132.210 ms

Loss rate: 0.83%

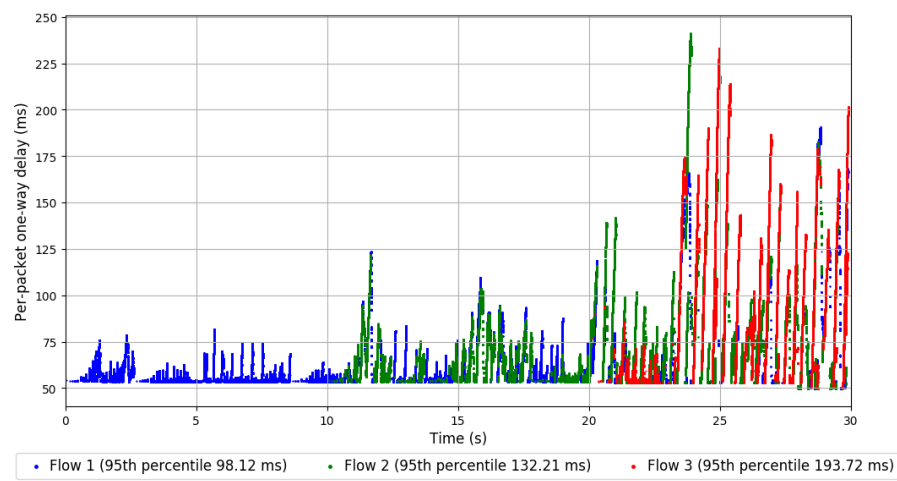
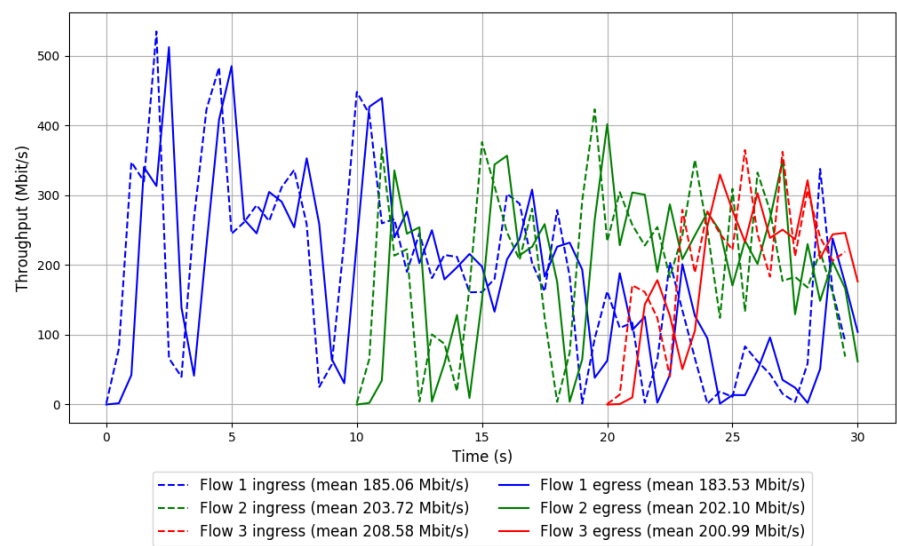
-- Flow 3:

Average throughput: 200.99 Mbit/s

95th percentile per-packet one-way delay: 193.724 ms

Loss rate: 3.01%

Run 4: Report of Verus — Data Link



Run 5: Statistics of Verus

Start at: 2018-05-26 04:23:58

End at: 2018-05-26 04:24:28

Local clock offset: -0.195 ms

Remote clock offset: 0.129 ms

Below is generated by plot.py at 2018-05-26 08:50:00

Datalink statistics

-- Total of 3 flows:

Average throughput: 398.27 Mbit/s

95th percentile per-packet one-way delay: 164.559 ms

Loss rate: 2.32%

-- Flow 1:

Average throughput: 238.90 Mbit/s

95th percentile per-packet one-way delay: 124.835 ms

Loss rate: 0.99%

-- Flow 2:

Average throughput: 149.14 Mbit/s

95th percentile per-packet one-way delay: 200.202 ms

Loss rate: 3.56%

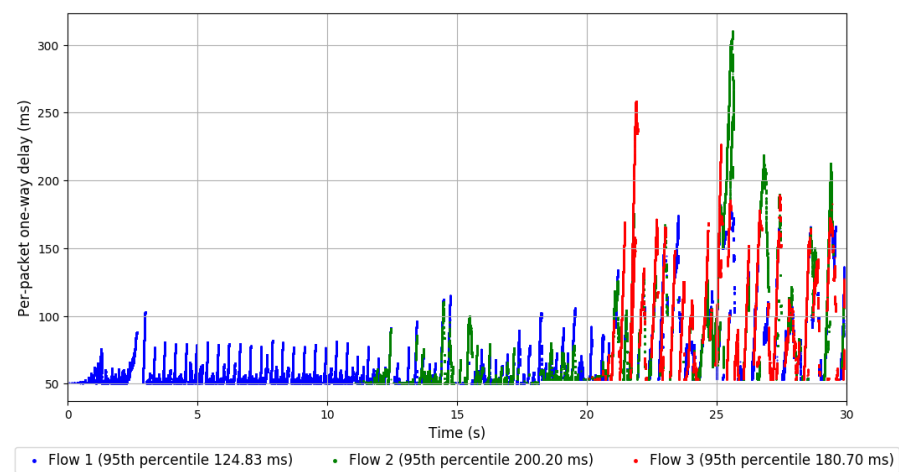
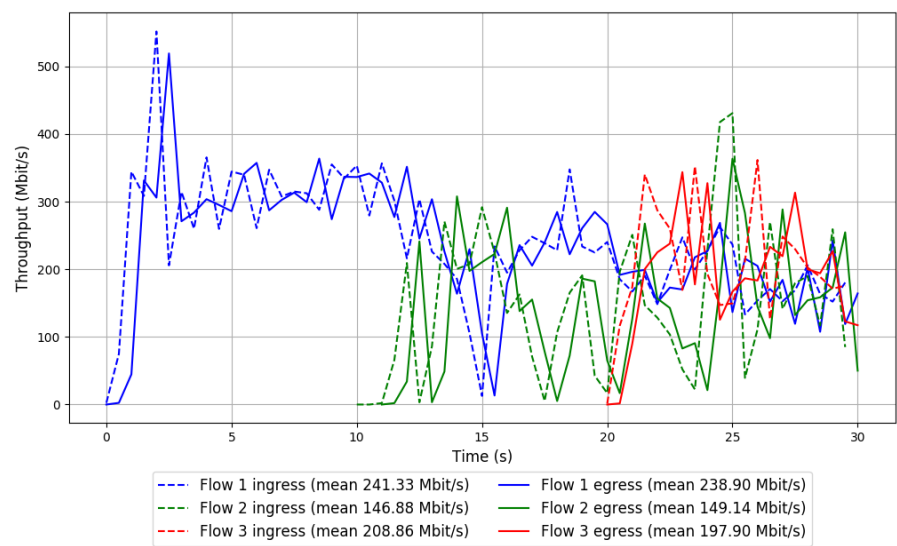
-- Flow 3:

Average throughput: 197.90 Mbit/s

95th percentile per-packet one-way delay: 180.702 ms

Loss rate: 5.23%

Run 5: Report of Verus — Data Link

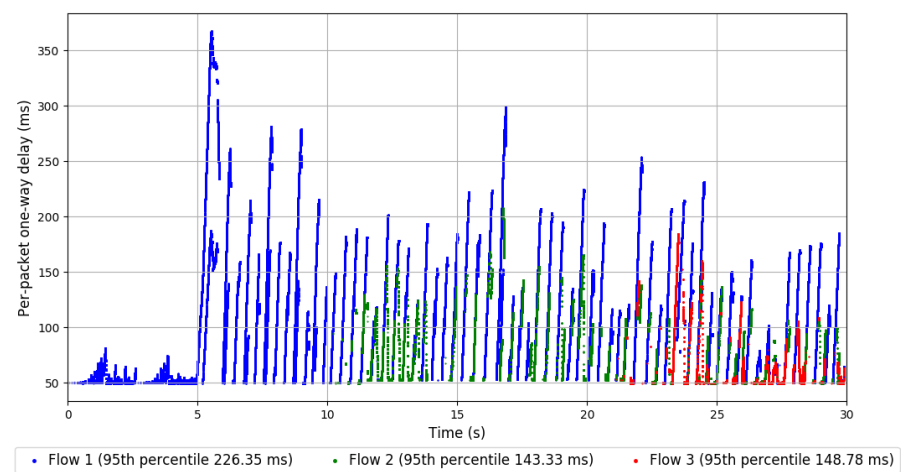
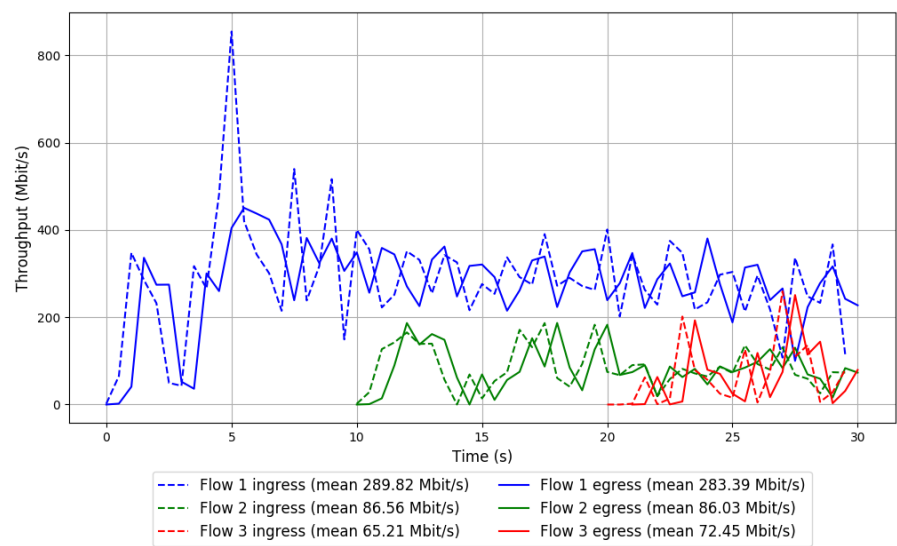


Run 6: Statistics of Verus

Start at: 2018-05-26 04:46:45
End at: 2018-05-26 04:47:15
Local clock offset: 0.608 ms
Remote clock offset: -0.202 ms

Below is generated by plot.py at 2018-05-26 08:50:00
Datalink statistics
-- Total of 3 flows:
Average throughput: 361.41 Mbit/s
95th percentile per-packet one-way delay: 212.431 ms
Loss rate: 1.83%
-- Flow 1:
Average throughput: 283.39 Mbit/s
95th percentile per-packet one-way delay: 226.350 ms
Loss rate: 2.22%
-- Flow 2:
Average throughput: 86.03 Mbit/s
95th percentile per-packet one-way delay: 143.327 ms
Loss rate: 0.48%
-- Flow 3:
Average throughput: 72.45 Mbit/s
95th percentile per-packet one-way delay: 148.779 ms
Loss rate: 0.14%

Run 6: Report of Verus — Data Link



Run 7: Statistics of Verus

Start at: 2018-05-26 05:09:54

End at: 2018-05-26 05:10:24

Local clock offset: 0.075 ms

Remote clock offset: 0.291 ms

Below is generated by plot.py at 2018-05-26 08:50:28

Datalink statistics

-- Total of 3 flows:

Average throughput: 363.92 Mbit/s

95th percentile per-packet one-way delay: 150.944 ms

Loss rate: 1.26%

-- Flow 1:

Average throughput: 222.13 Mbit/s

95th percentile per-packet one-way delay: 140.014 ms

Loss rate: 1.05%

-- Flow 2:

Average throughput: 177.10 Mbit/s

95th percentile per-packet one-way delay: 164.649 ms

Loss rate: 1.81%

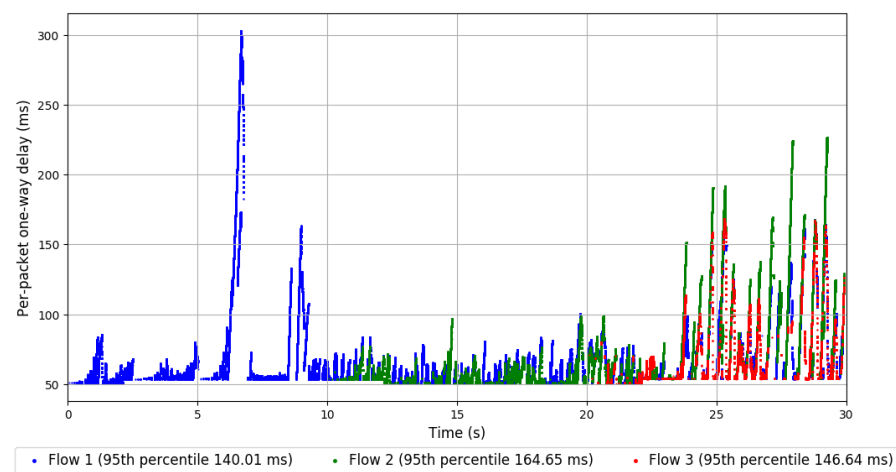
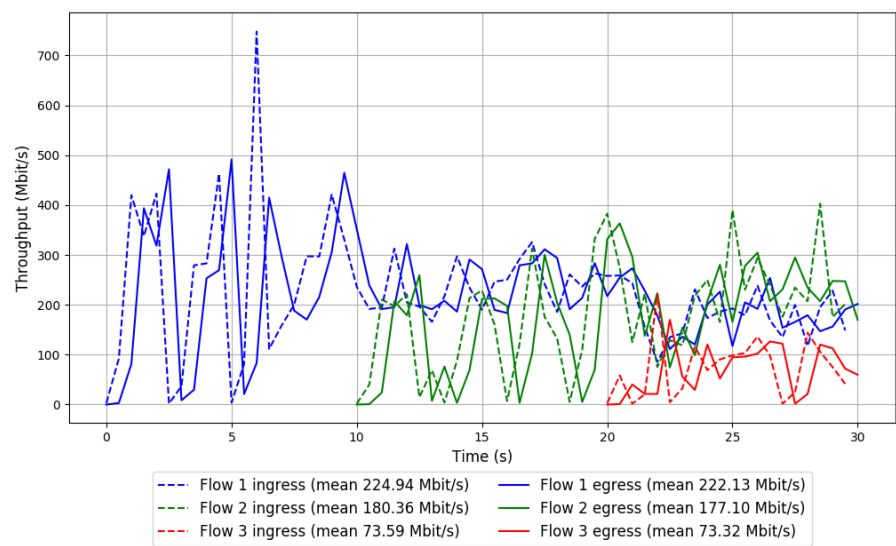
-- Flow 3:

Average throughput: 73.32 Mbit/s

95th percentile per-packet one-way delay: 146.641 ms

Loss rate: 0.55%

Run 7: Report of Verus — Data Link

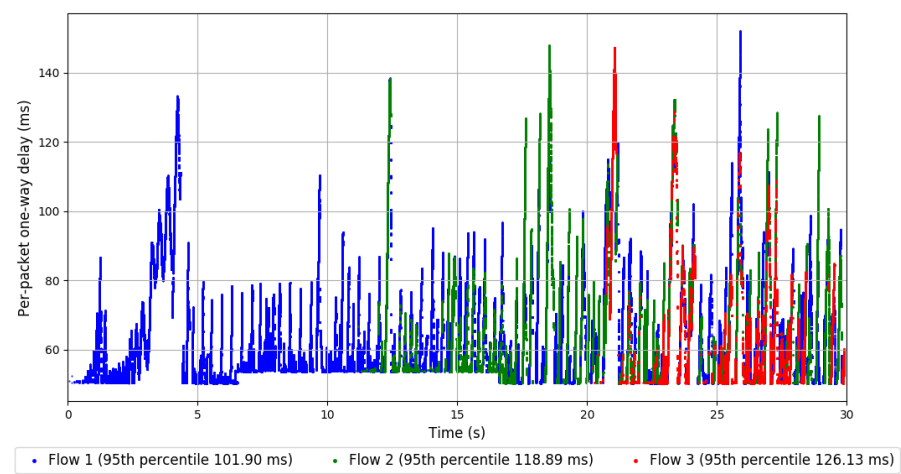
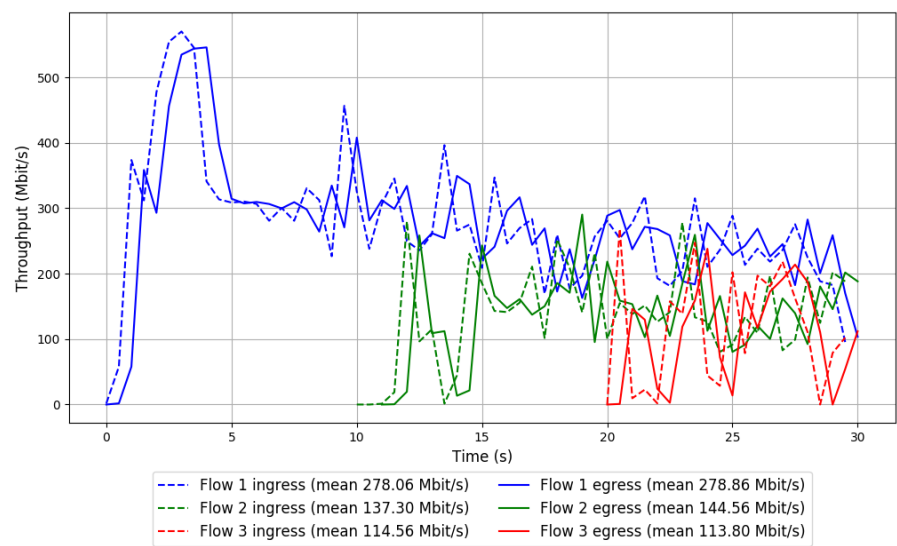


Run 8: Statistics of Verus

Start at: 2018-05-26 05:32:50
End at: 2018-05-26 05:33:20
Local clock offset: -0.005 ms
Remote clock offset: 0.204 ms

Below is generated by plot.py at 2018-05-26 08:51:21
Datalink statistics
-- Total of 3 flows:
Average throughput: 406.06 Mbit/s
95th percentile per-packet one-way delay: 107.887 ms
Loss rate: 0.08%
-- Flow 1:
Average throughput: 278.86 Mbit/s
95th percentile per-packet one-way delay: 101.902 ms
Loss rate: 0.03%
-- Flow 2:
Average throughput: 144.56 Mbit/s
95th percentile per-packet one-way delay: 118.886 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 113.80 Mbit/s
95th percentile per-packet one-way delay: 126.128 ms
Loss rate: 0.67%

Run 8: Report of Verus — Data Link



Run 9: Statistics of Verus

Start at: 2018-05-26 05:55:35

End at: 2018-05-26 05:56:05

Local clock offset: 0.029 ms

Remote clock offset: -0.23 ms

Below is generated by plot.py at 2018-05-26 08:53:49

Datalink statistics

-- Total of 3 flows:

Average throughput: 404.90 Mbit/s

95th percentile per-packet one-way delay: 110.363 ms

Loss rate: 0.37%

-- Flow 1:

Average throughput: 198.66 Mbit/s

95th percentile per-packet one-way delay: 114.726 ms

Loss rate: 0.38%

-- Flow 2:

Average throughput: 228.47 Mbit/s

95th percentile per-packet one-way delay: 105.055 ms

Loss rate: 0.27%

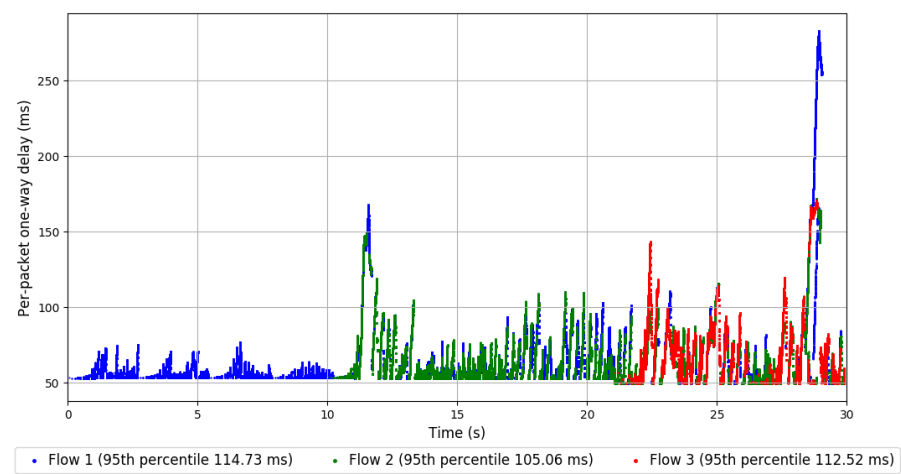
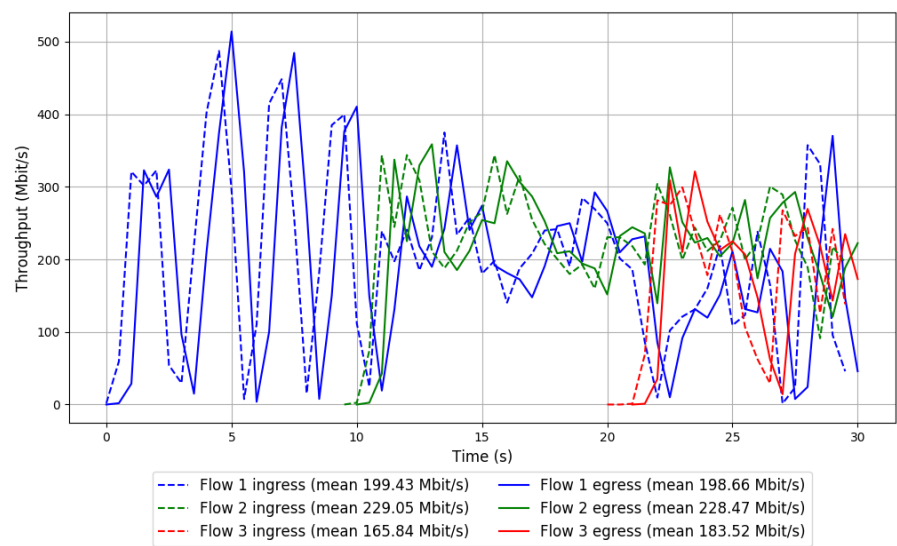
-- Flow 3:

Average throughput: 183.52 Mbit/s

95th percentile per-packet one-way delay: 112.524 ms

Loss rate: 0.57%

Run 9: Report of Verus — Data Link

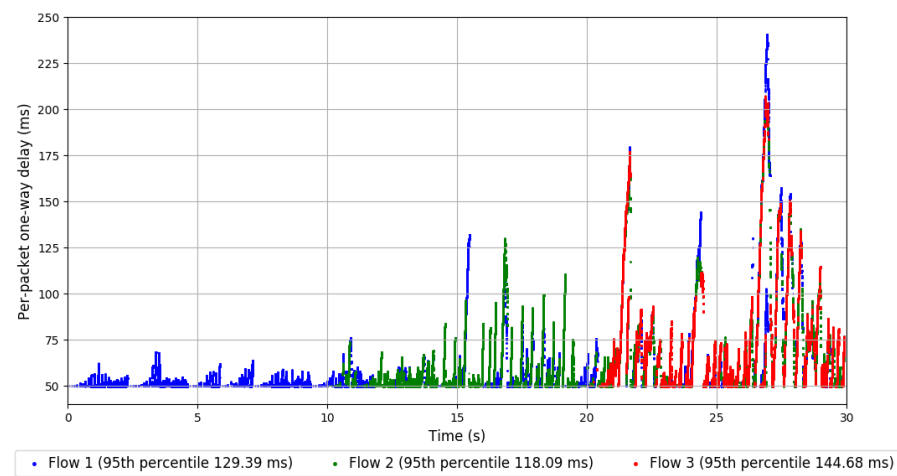
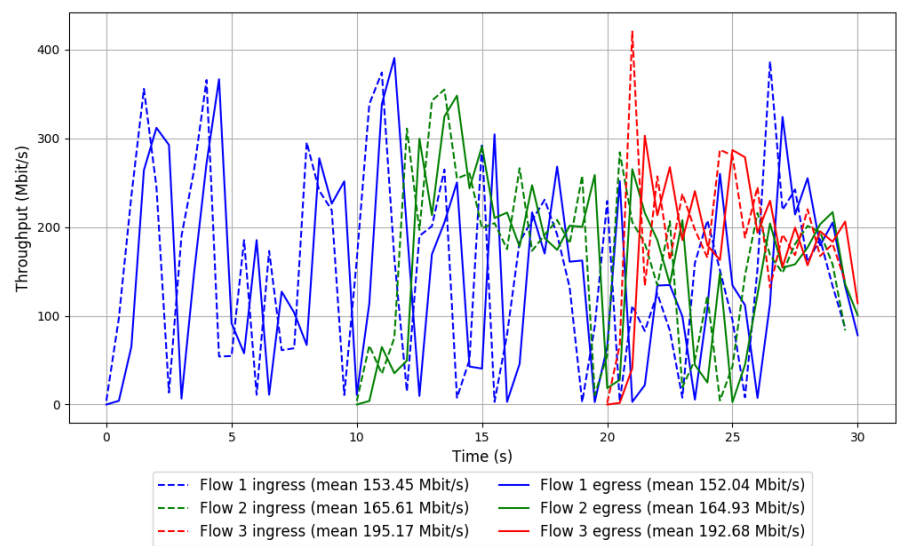


Run 10: Statistics of Verus

Start at: 2018-05-26 06:18:36
End at: 2018-05-26 06:19:06
Local clock offset: 0.371 ms
Remote clock offset: -0.193 ms

Below is generated by plot.py at 2018-05-26 08:53:49
Datalink statistics
-- Total of 3 flows:
Average throughput: 325.23 Mbit/s
95th percentile per-packet one-way delay: 128.759 ms
Loss rate: 0.79%
-- Flow 1:
Average throughput: 152.04 Mbit/s
95th percentile per-packet one-way delay: 129.392 ms
Loss rate: 0.85%
-- Flow 2:
Average throughput: 164.93 Mbit/s
95th percentile per-packet one-way delay: 118.091 ms
Loss rate: 0.42%
-- Flow 3:
Average throughput: 192.68 Mbit/s
95th percentile per-packet one-way delay: 144.678 ms
Loss rate: 1.28%

Run 10: Report of Verus — Data Link

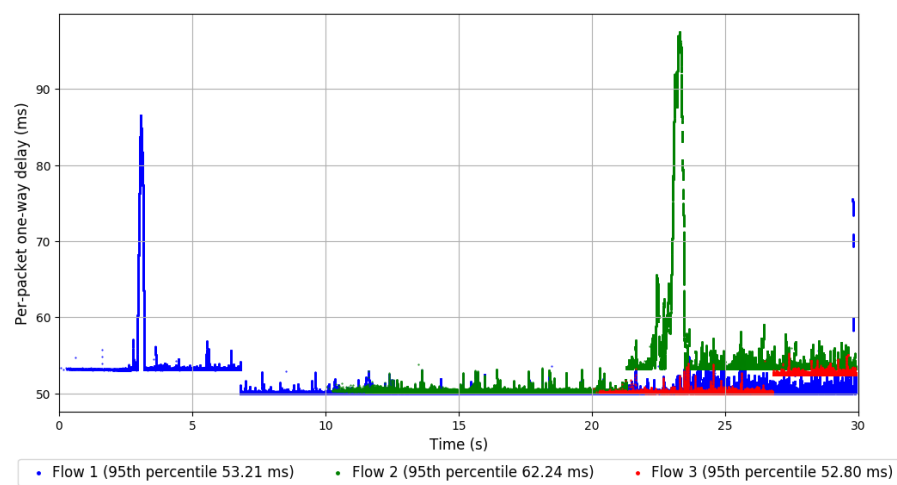
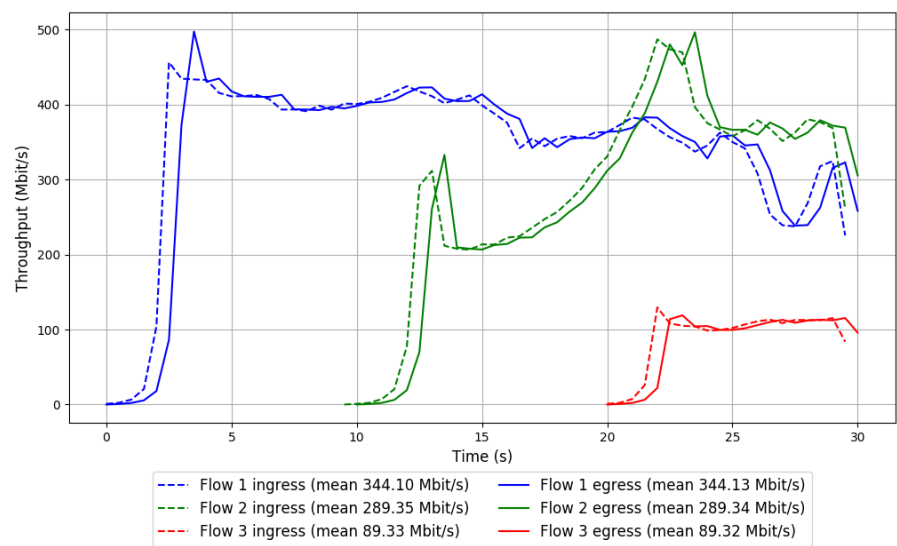


Run 1: Statistics of PCC-Vivace

Start at: 2018-05-26 02:46:59
End at: 2018-05-26 02:47:29
Local clock offset: -0.292 ms
Remote clock offset: -0.363 ms

Below is generated by plot.py at 2018-05-26 08:58:46
Datalink statistics
-- Total of 3 flows:
Average throughput: 566.14 Mbit/s
95th percentile per-packet one-way delay: 55.073 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 344.13 Mbit/s
95th percentile per-packet one-way delay: 53.207 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 289.34 Mbit/s
95th percentile per-packet one-way delay: 62.243 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 89.32 Mbit/s
95th percentile per-packet one-way delay: 52.796 ms
Loss rate: 0.00%

Run 1: Report of PCC-Vivace — Data Link

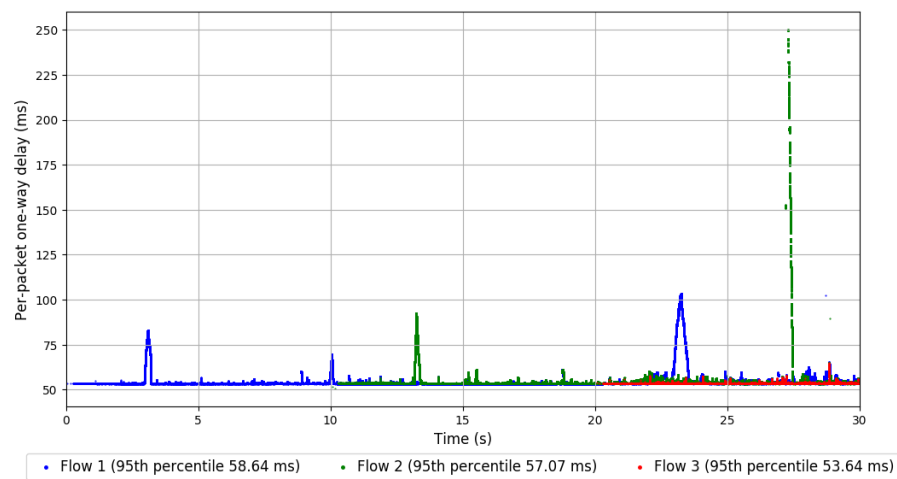
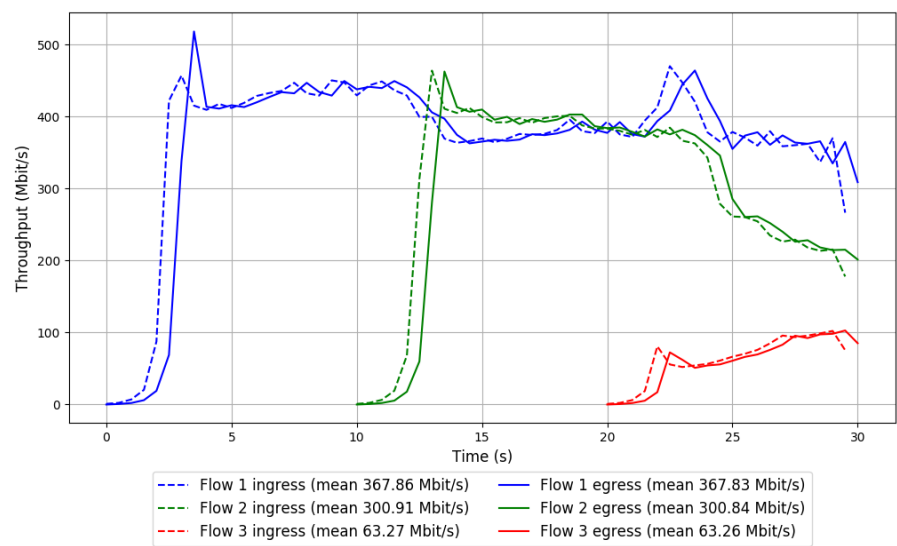


Run 2: Statistics of PCC-Vivace

Start at: 2018-05-26 03:09:56
End at: 2018-05-26 03:10:26
Local clock offset: -0.347 ms
Remote clock offset: -0.309 ms

Below is generated by plot.py at 2018-05-26 08:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 588.79 Mbit/s
95th percentile per-packet one-way delay: 57.910 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 367.83 Mbit/s
95th percentile per-packet one-way delay: 58.643 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 300.84 Mbit/s
95th percentile per-packet one-way delay: 57.066 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 63.26 Mbit/s
95th percentile per-packet one-way delay: 53.643 ms
Loss rate: 0.00%

Run 2: Report of PCC-Vivace — Data Link

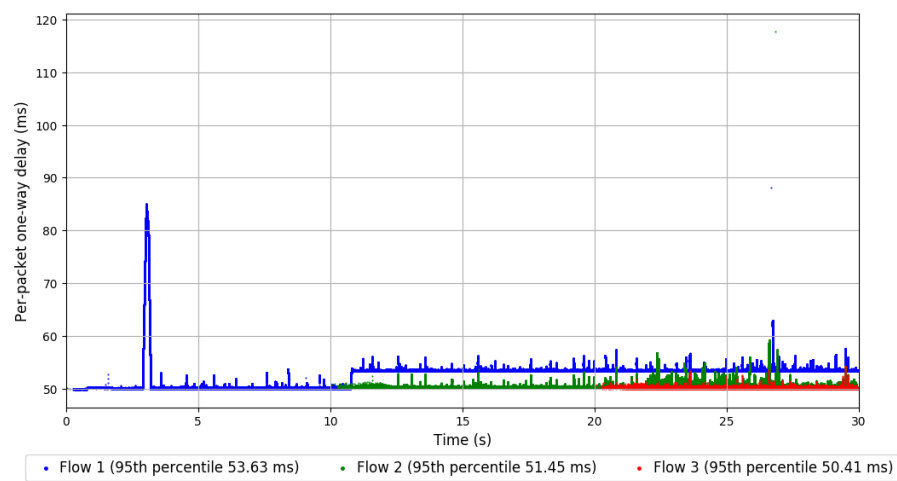
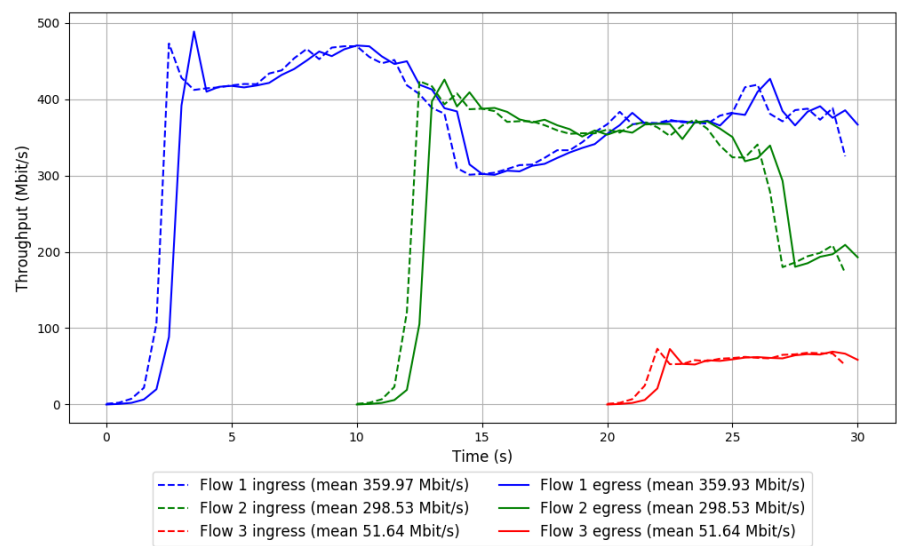


Run 3: Statistics of PCC-Vivace

Start at: 2018-05-26 03:33:15
End at: 2018-05-26 03:33:45
Local clock offset: -0.2 ms
Remote clock offset: -0.023 ms

Below is generated by plot.py at 2018-05-26 08:59:54
Datalink statistics
-- Total of 3 flows:
Average throughput: 575.49 Mbit/s
95th percentile per-packet one-way delay: 53.513 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 359.93 Mbit/s
95th percentile per-packet one-way delay: 53.627 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 298.53 Mbit/s
95th percentile per-packet one-way delay: 51.451 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 51.64 Mbit/s
95th percentile per-packet one-way delay: 50.407 ms
Loss rate: 0.00%

Run 3: Report of PCC-Vivace — Data Link



Run 4: Statistics of PCC-Vivace

Start at: 2018-05-26 03:56:30

End at: 2018-05-26 03:57:00

Local clock offset: -0.717 ms

Remote clock offset: 0.353 ms

Below is generated by plot.py at 2018-05-26 09:00:04

Datalink statistics

-- Total of 3 flows:

Average throughput: 564.44 Mbit/s

95th percentile per-packet one-way delay: 56.350 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 331.08 Mbit/s

95th percentile per-packet one-way delay: 55.445 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 336.12 Mbit/s

95th percentile per-packet one-way delay: 59.776 ms

Loss rate: 0.00%

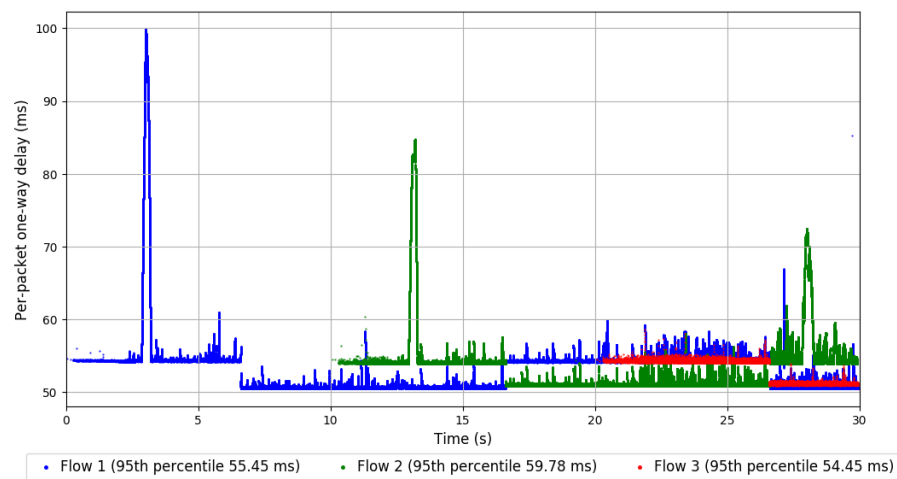
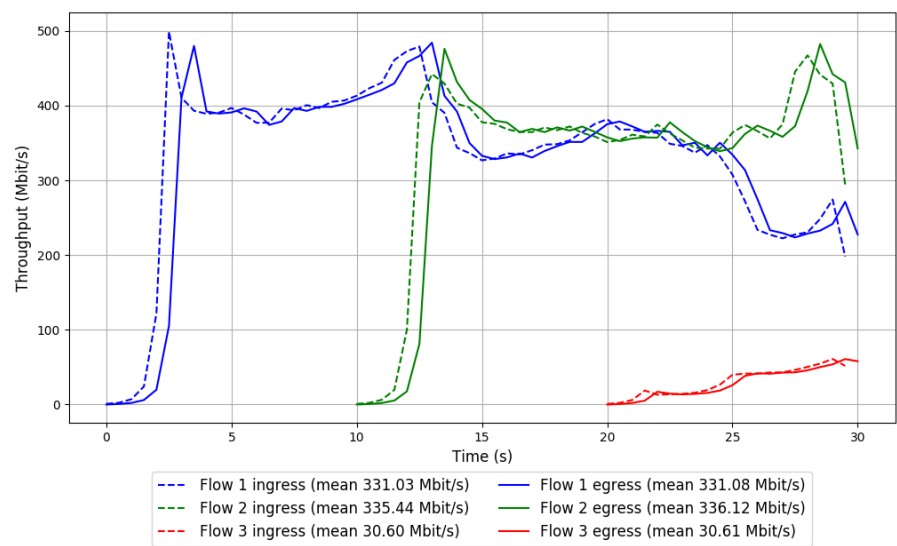
-- Flow 3:

Average throughput: 30.61 Mbit/s

95th percentile per-packet one-way delay: 54.454 ms

Loss rate: 0.00%

Run 4: Report of PCC-Vivace — Data Link

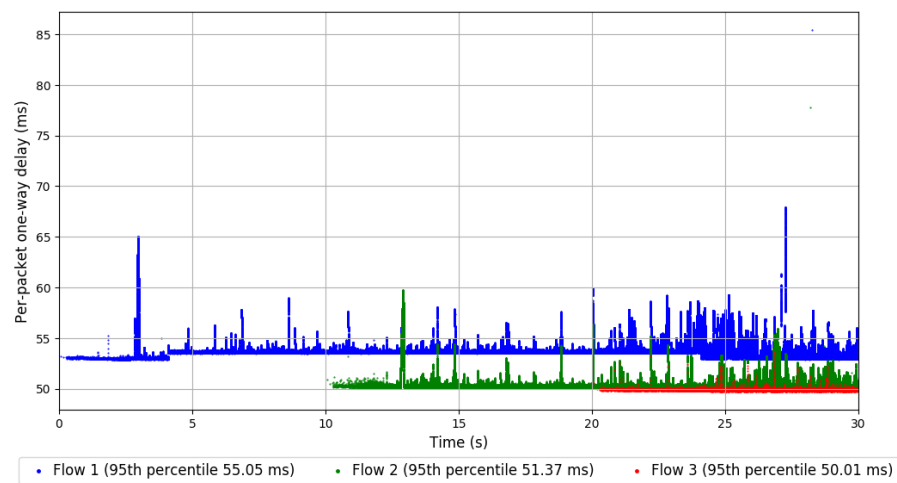
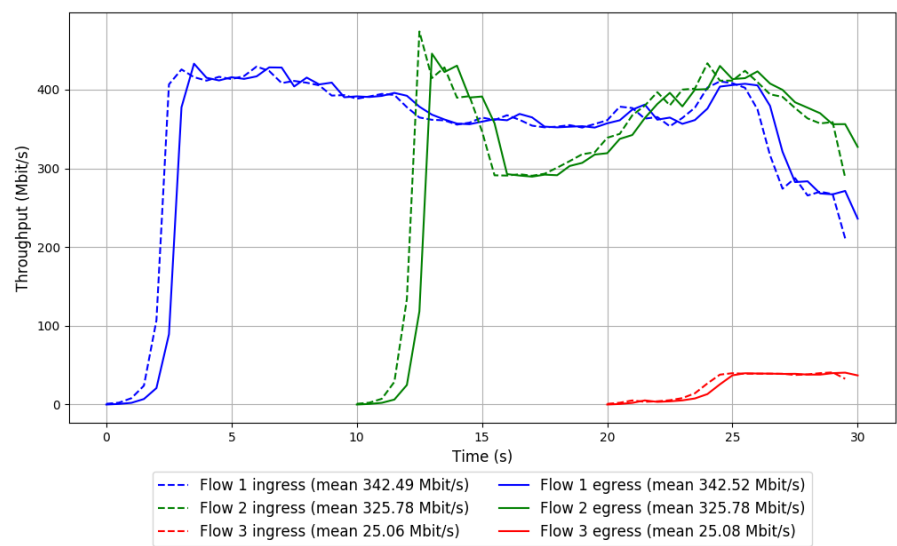


Run 5: Statistics of PCC-Vivace

Start at: 2018-05-26 04:19:22
End at: 2018-05-26 04:19:52
Local clock offset: -0.002 ms
Remote clock offset: -0.017 ms

Below is generated by plot.py at 2018-05-26 09:00:33
Datalink statistics
-- Total of 3 flows:
Average throughput: 567.45 Mbit/s
95th percentile per-packet one-way delay: 54.290 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 342.52 Mbit/s
95th percentile per-packet one-way delay: 55.049 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 325.78 Mbit/s
95th percentile per-packet one-way delay: 51.369 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 25.08 Mbit/s
95th percentile per-packet one-way delay: 50.010 ms
Loss rate: 0.00%

Run 5: Report of PCC-Vivace — Data Link



Run 6: Statistics of PCC-Vivace

Start at: 2018-05-26 04:42:02

End at: 2018-05-26 04:42:32

Local clock offset: 0.004 ms

Remote clock offset: 0.354 ms

Below is generated by plot.py at 2018-05-26 09:01:55

Datalink statistics

-- Total of 3 flows:

Average throughput: 601.46 Mbit/s

95th percentile per-packet one-way delay: 54.784 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 356.05 Mbit/s

95th percentile per-packet one-way delay: 55.028 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 284.83 Mbit/s

95th percentile per-packet one-way delay: 53.971 ms

Loss rate: 0.00%

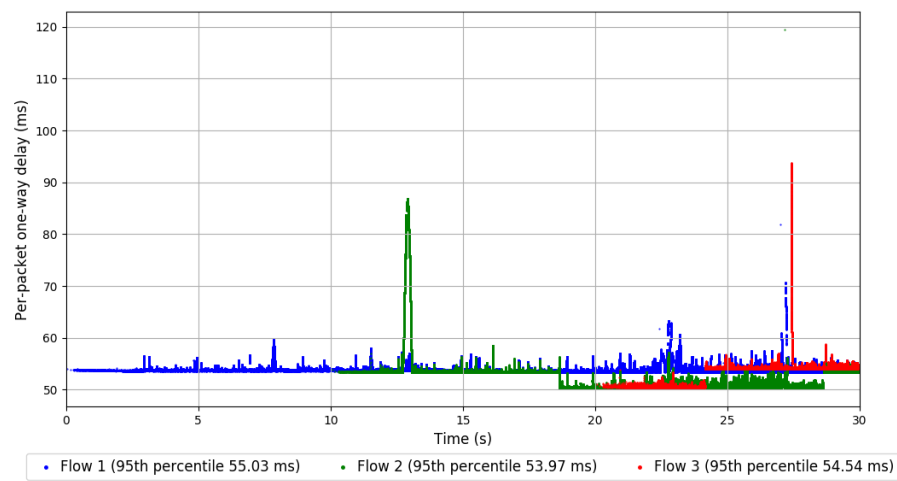
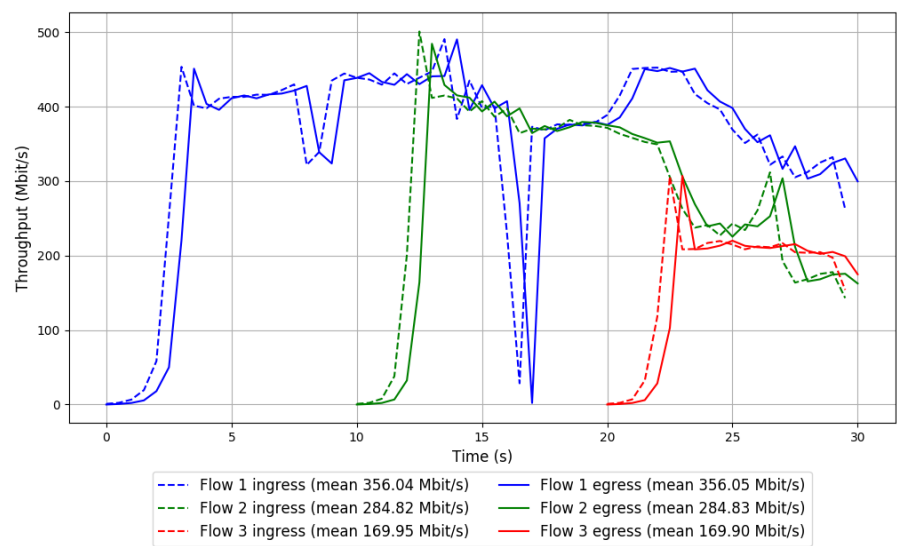
-- Flow 3:

Average throughput: 169.90 Mbit/s

95th percentile per-packet one-way delay: 54.538 ms

Loss rate: 0.00%

Run 6: Report of PCC-Vivace — Data Link



Run 7: Statistics of PCC-Vivace

Start at: 2018-05-26 05:05:10

End at: 2018-05-26 05:05:40

Local clock offset: 0.451 ms

Remote clock offset: 0.196 ms

Below is generated by plot.py at 2018-05-26 09:02:40

Datalink statistics

-- Total of 3 flows:

Average throughput: 599.95 Mbit/s

95th percentile per-packet one-way delay: 54.557 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 363.90 Mbit/s

95th percentile per-packet one-way delay: 54.523 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 272.01 Mbit/s

95th percentile per-packet one-way delay: 54.724 ms

Loss rate: 0.00%

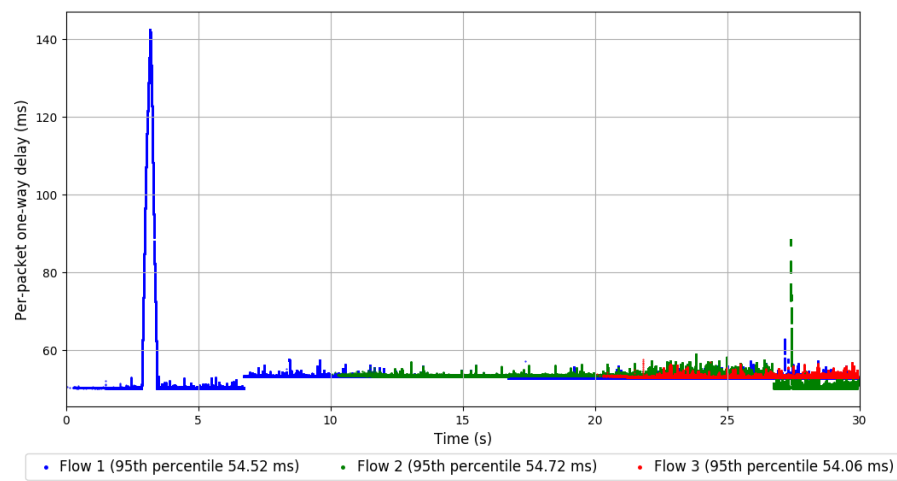
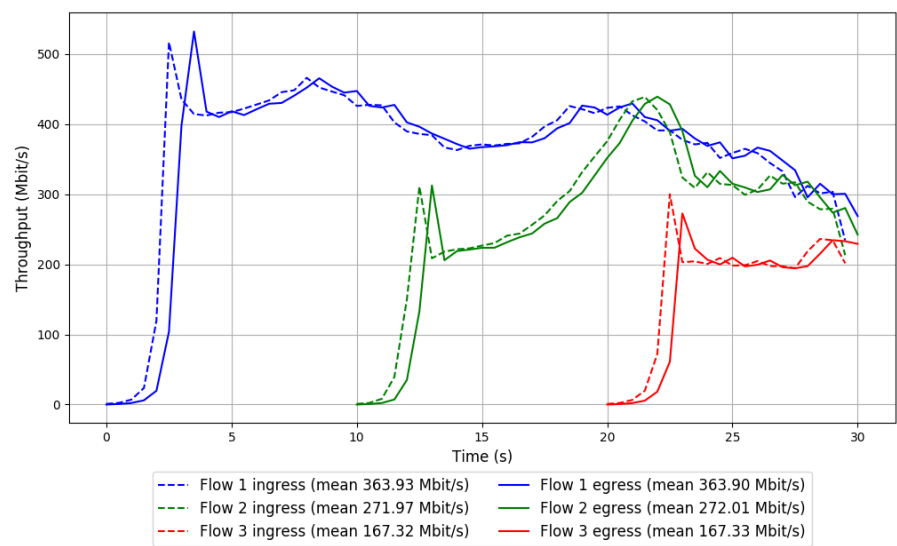
-- Flow 3:

Average throughput: 167.33 Mbit/s

95th percentile per-packet one-way delay: 54.065 ms

Loss rate: 0.00%

Run 7: Report of PCC-Vivace — Data Link

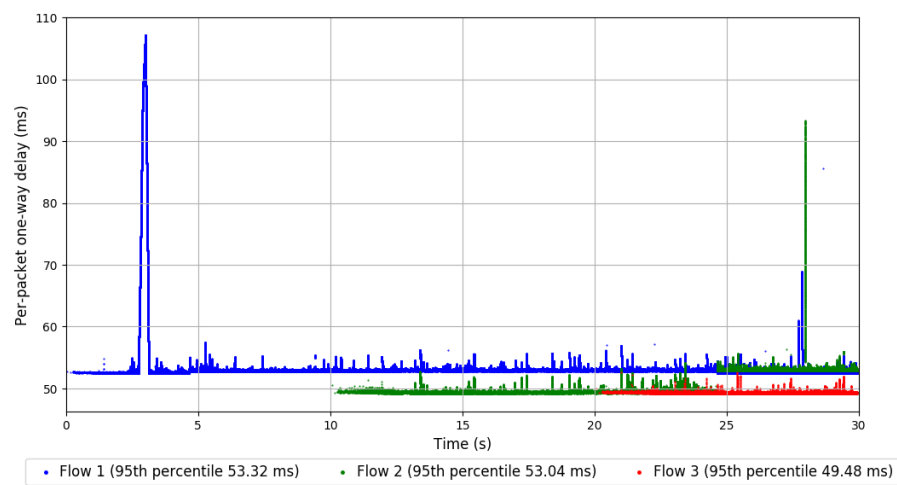
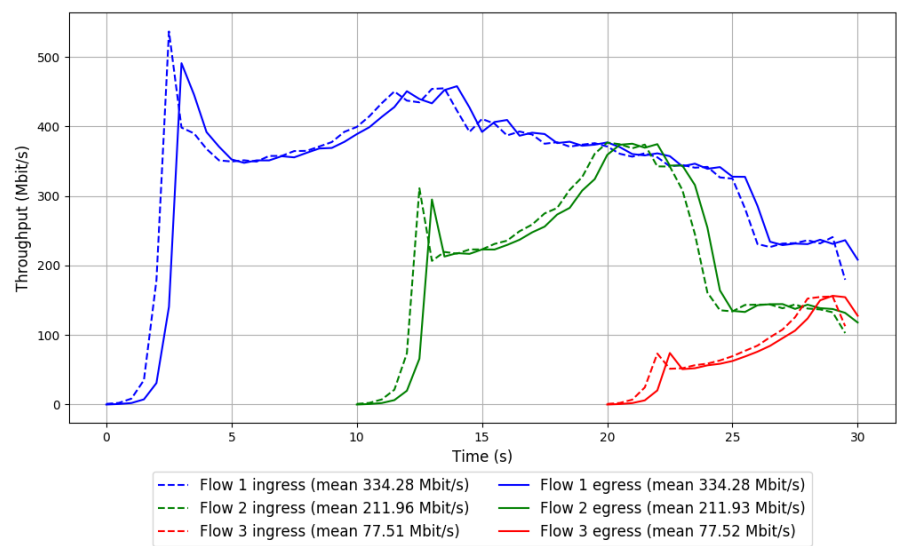


Run 8: Statistics of PCC-Vivace

Start at: 2018-05-26 05:28:12
End at: 2018-05-26 05:28:42
Local clock offset: 0.182 ms
Remote clock offset: -0.437 ms

Below is generated by plot.py at 2018-05-26 09:02:40
Datalink statistics
-- Total of 3 flows:
Average throughput: 500.79 Mbit/s
95th percentile per-packet one-way delay: 53.114 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 334.28 Mbit/s
95th percentile per-packet one-way delay: 53.321 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 211.93 Mbit/s
95th percentile per-packet one-way delay: 53.044 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 77.52 Mbit/s
95th percentile per-packet one-way delay: 49.478 ms
Loss rate: 0.00%

Run 8: Report of PCC-Vivace — Data Link



Run 9: Statistics of PCC-Vivace

Start at: 2018-05-26 05:51:07

End at: 2018-05-26 05:51:37

Local clock offset: 0.163 ms

Remote clock offset: 0.113 ms

Below is generated by plot.py at 2018-05-26 09:03:42

Datalink statistics

-- Total of 3 flows:

Average throughput: 584.99 Mbit/s

95th percentile per-packet one-way delay: 53.852 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 346.46 Mbit/s

95th percentile per-packet one-way delay: 54.147 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 334.03 Mbit/s

95th percentile per-packet one-way delay: 50.944 ms

Loss rate: 0.00%

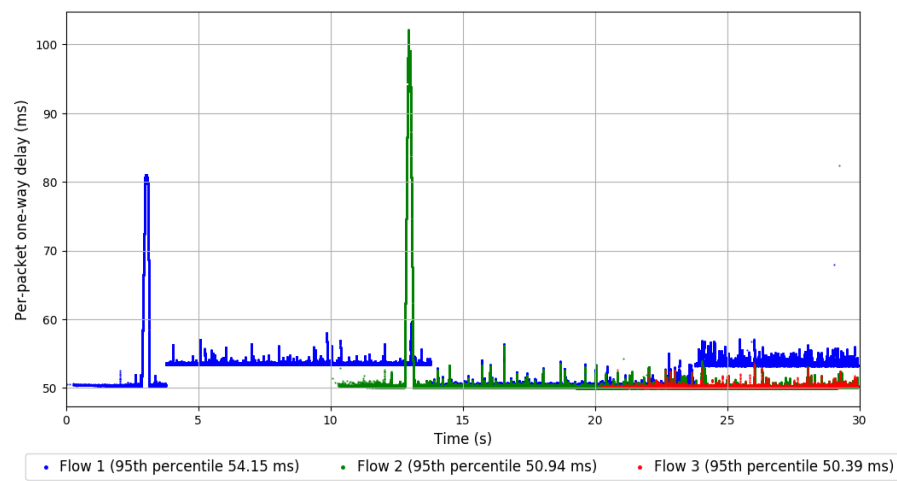
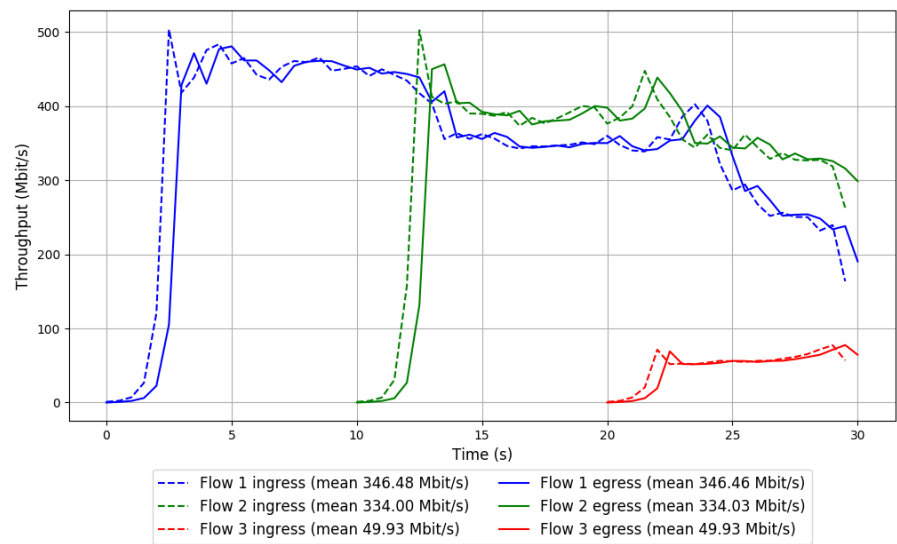
-- Flow 3:

Average throughput: 49.93 Mbit/s

95th percentile per-packet one-way delay: 50.394 ms

Loss rate: 0.00%

Run 9: Report of PCC-Vivace — Data Link



Run 10: Statistics of PCC-Vivace

Start at: 2018-05-26 06:13:49

End at: 2018-05-26 06:14:19

Local clock offset: 0.224 ms

Remote clock offset: 0.073 ms

Below is generated by plot.py at 2018-05-26 09:03:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 581.95 Mbit/s

95th percentile per-packet one-way delay: 55.117 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 369.14 Mbit/s

95th percentile per-packet one-way delay: 56.402 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 237.04 Mbit/s

95th percentile per-packet one-way delay: 51.566 ms

Loss rate: 0.00%

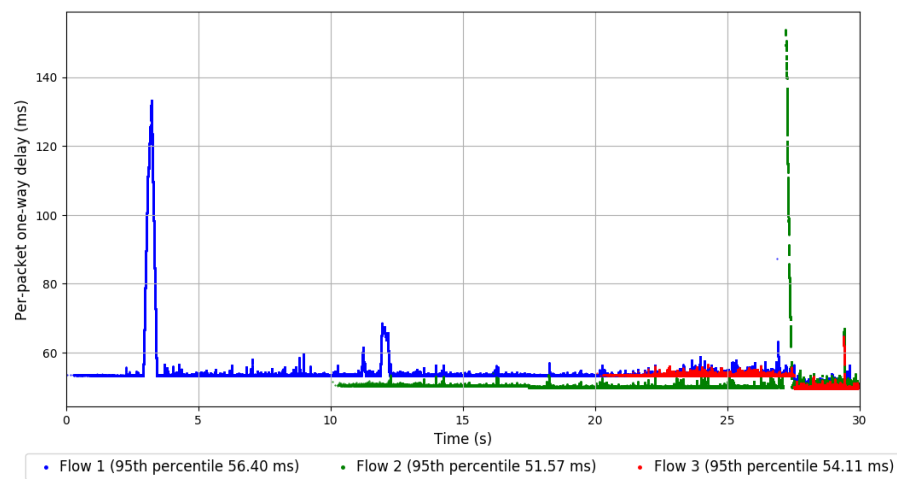
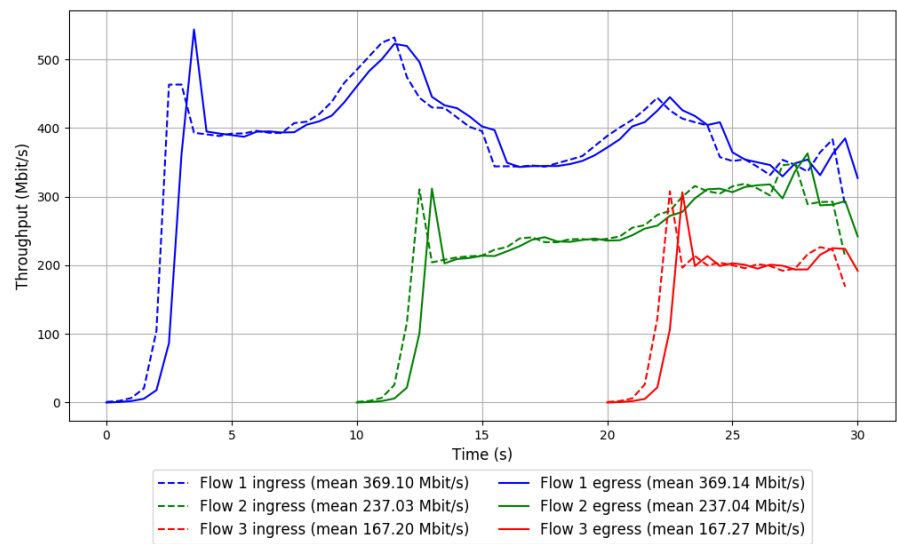
-- Flow 3:

Average throughput: 167.27 Mbit/s

95th percentile per-packet one-way delay: 54.110 ms

Loss rate: 0.00%

Run 10: Report of PCC-Vivace — Data Link

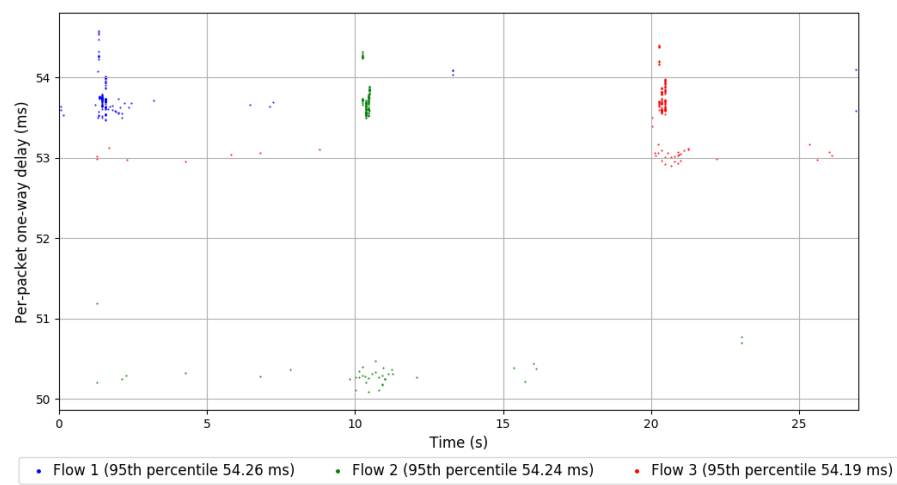
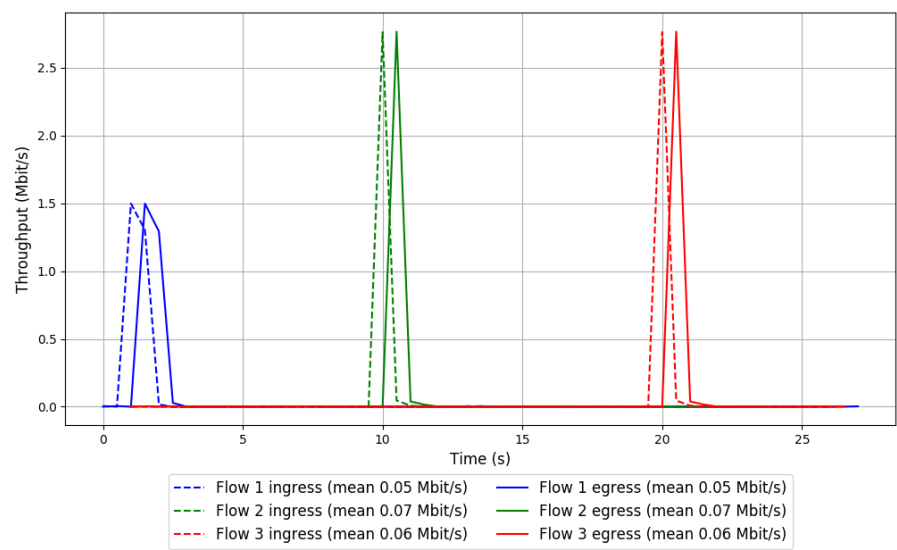


```
Run 1: Statistics of WebRTC media

Start at: 2018-05-26 02:42:19
End at: 2018-05-26 02:42:49
Local clock offset: -0.14 ms
Remote clock offset: 0.054 ms

# Below is generated by plot.py at 2018-05-26 09:03:51
# Datalink statistics
-- Total of 3 flows:
Average throughput: 0.16 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.261 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.07 Mbit/s
95th percentile per-packet one-way delay: 54.244 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.06 Mbit/s
95th percentile per-packet one-way delay: 54.194 ms
Loss rate: 0.00%
```

Run 1: Report of WebRTC media — Data Link



Run 2: Statistics of WebRTC media

Start at: 2018-05-26 03:05:10

End at: 2018-05-26 03:05:40

Local clock offset: -0.274 ms

Remote clock offset: 0.031 ms

Below is generated by plot.py at 2018-05-26 09:03:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 54.135 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.357 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.317 ms

Loss rate: 0.00%

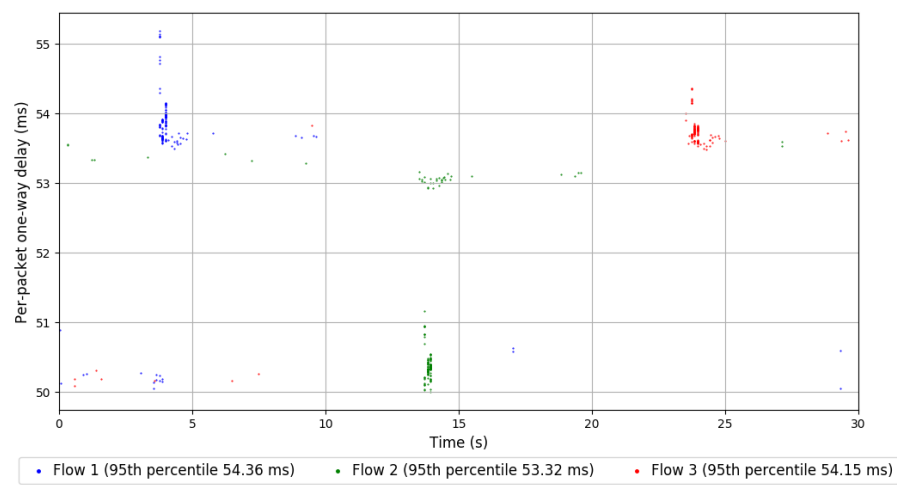
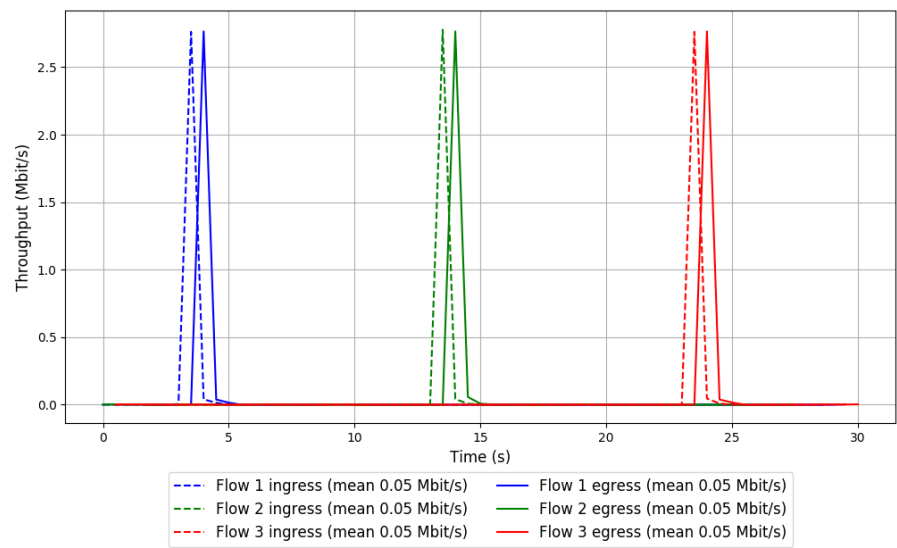
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.153 ms

Loss rate: 0.00%

Run 2: Report of WebRTC media — Data Link

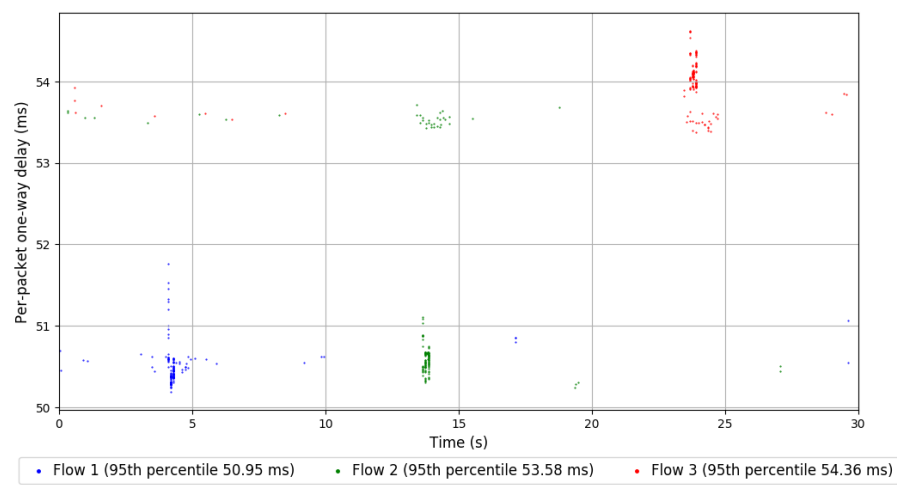
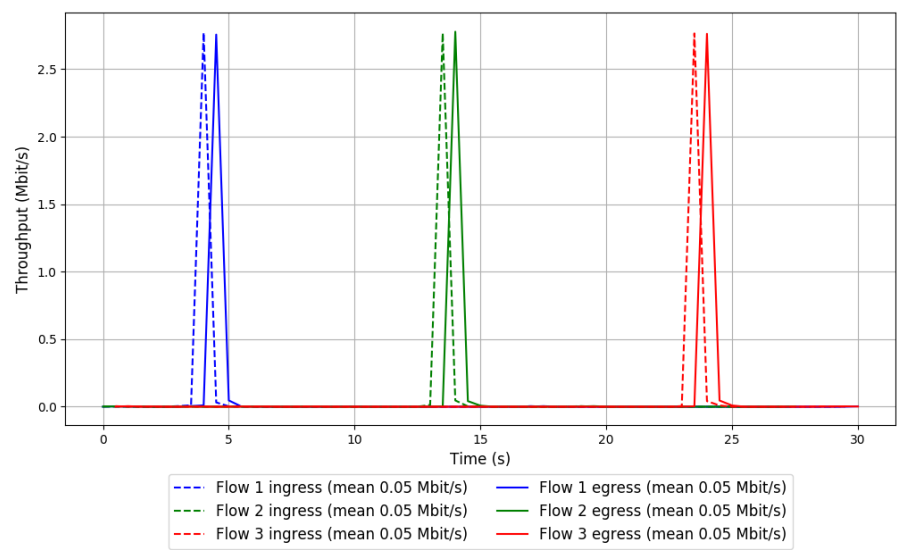


Run 3: Statistics of WebRTC media

Start at: 2018-05-26 03:28:30
End at: 2018-05-26 03:29:00
Local clock offset: -0.611 ms
Remote clock offset: -0.093 ms

Below is generated by plot.py at 2018-05-26 09:03:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 54.226 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.954 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.583 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.363 ms
Loss rate: 0.00%

Run 3: Report of WebRTC media — Data Link

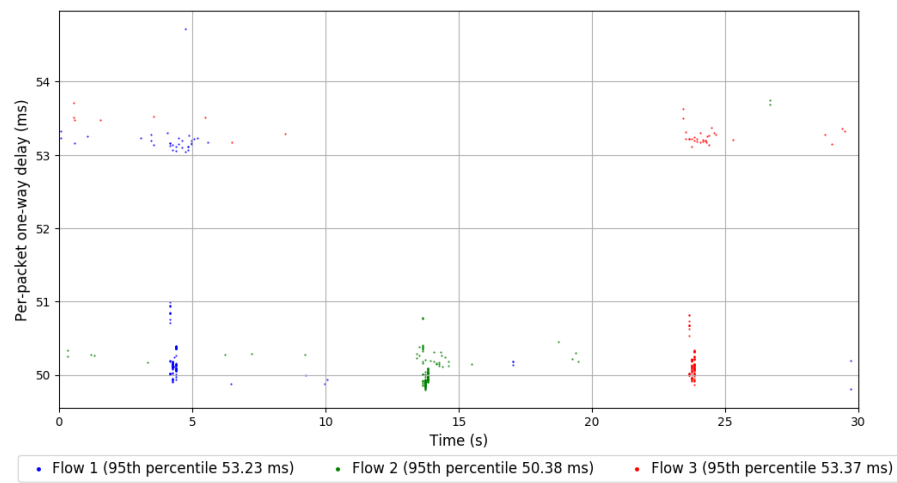
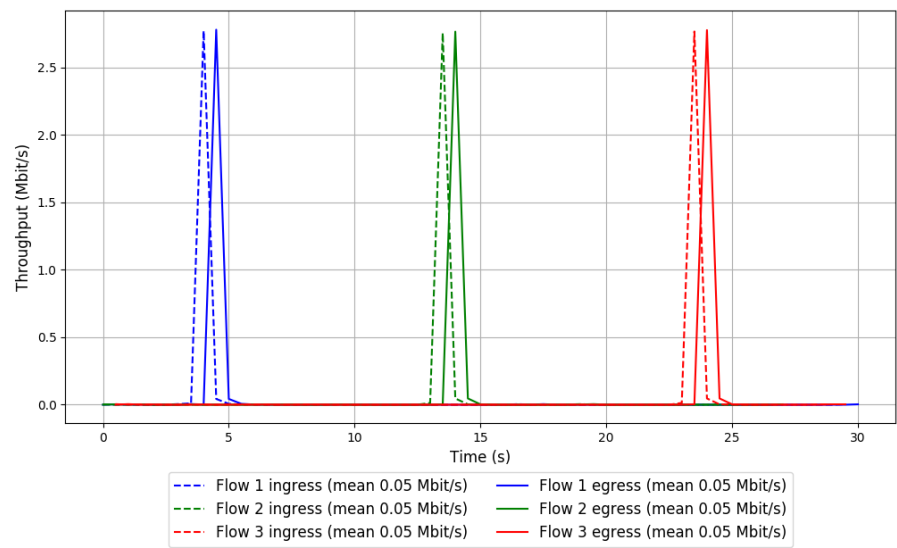


Run 4: Statistics of WebRTC media

Start at: 2018-05-26 03:51:53
End at: 2018-05-26 03:52:23
Local clock offset: -0.201 ms
Remote clock offset: -0.046 ms

Below is generated by plot.py at 2018-05-26 09:03:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.265 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.225 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 50.385 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.373 ms
Loss rate: 0.00%

Run 4: Report of WebRTC media — Data Link



Run 5: Statistics of WebRTC media

Start at: 2018-05-26 04:14:36

End at: 2018-05-26 04:15:06

Local clock offset: -0.097 ms

Remote clock offset: 0.096 ms

Below is generated by plot.py at 2018-05-26 09:03:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 54.038 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 50.901 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.056 ms

Loss rate: 0.00%

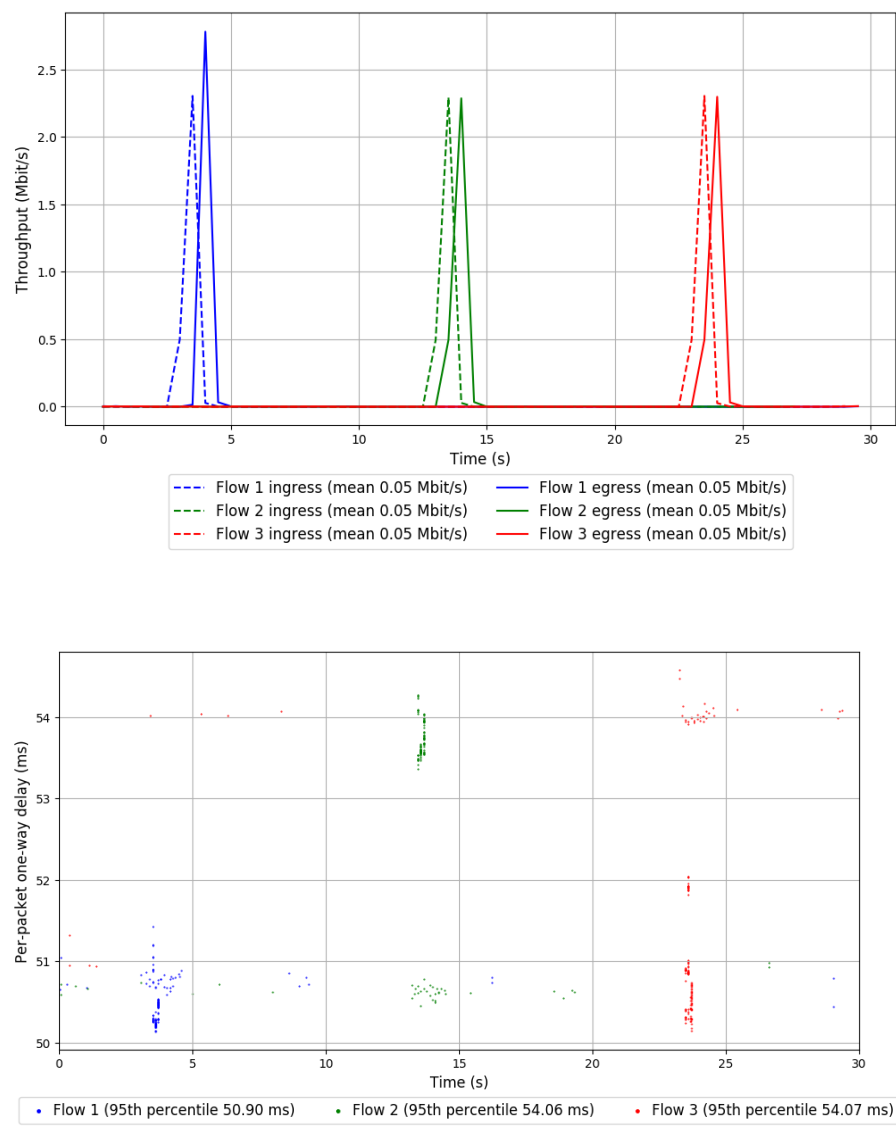
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.070 ms

Loss rate: 0.00%

Run 5: Report of WebRTC media — Data Link



Run 6: Statistics of WebRTC media

Start at: 2018-05-26 04:37:20

End at: 2018-05-26 04:37:50

Local clock offset: 0.084 ms

Remote clock offset: 0.093 ms

Below is generated by plot.py at 2018-05-26 09:03:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.14 Mbit/s

95th percentile per-packet one-way delay: 54.115 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.228 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.422 ms

Loss rate: 0.00%

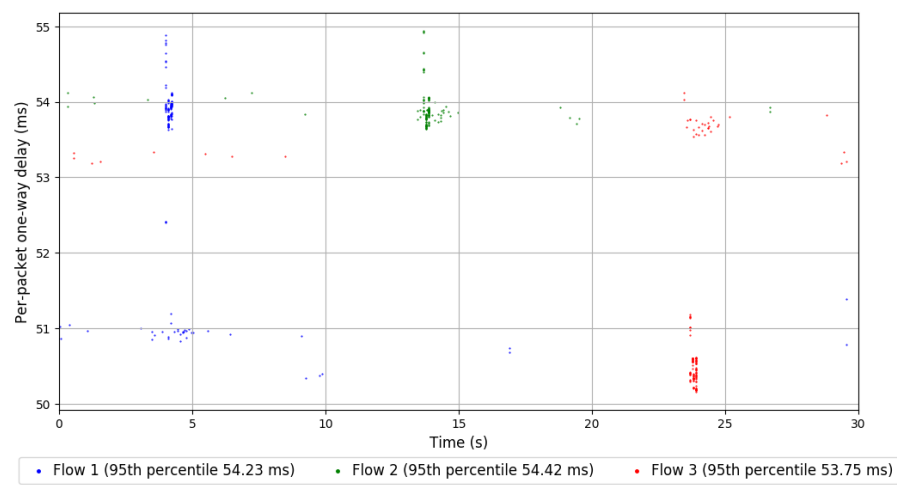
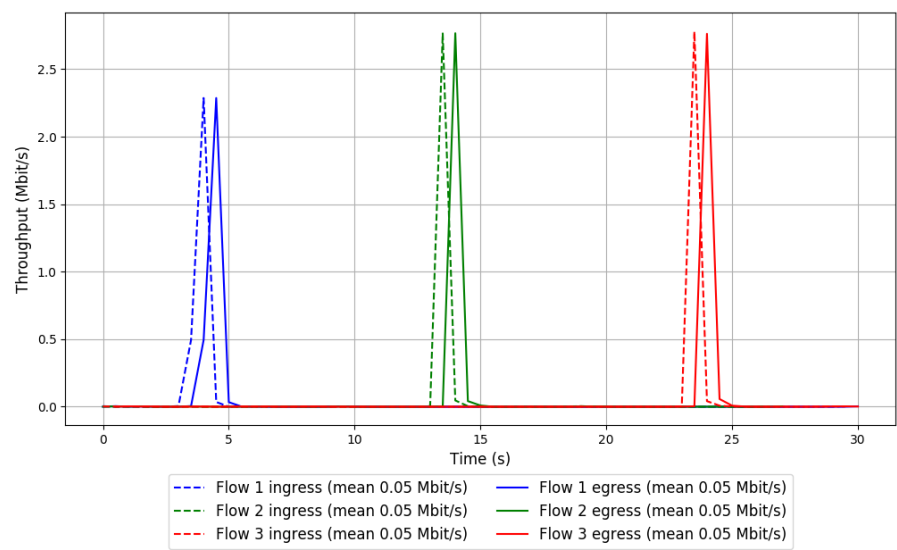
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.753 ms

Loss rate: 0.00%

Run 6: Report of WebRTC media — Data Link

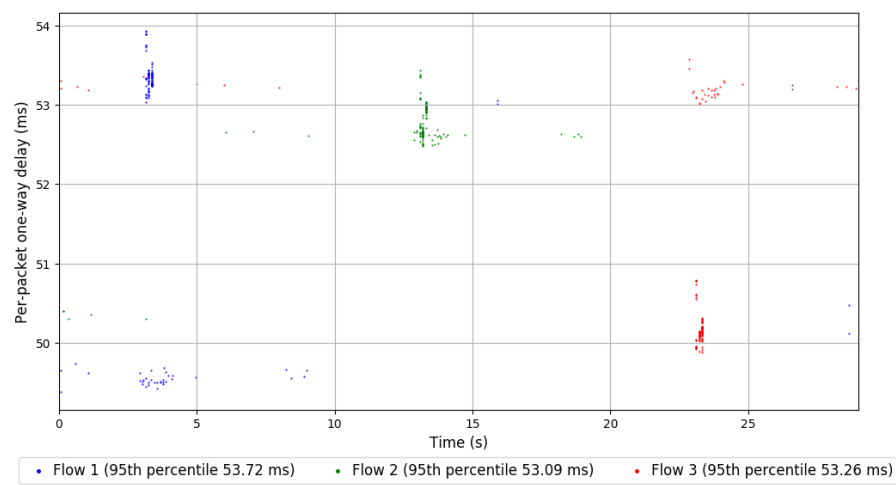
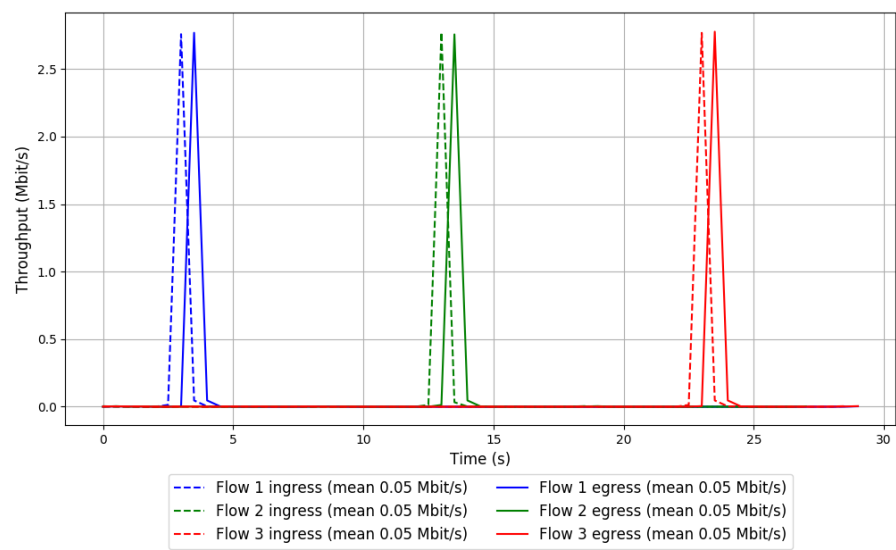


Run 7: Statistics of WebRTC media

Start at: 2018-05-26 05:00:20
End at: 2018-05-26 05:00:50
Local clock offset: 0.554 ms
Remote clock offset: -0.052 ms

Below is generated by plot.py at 2018-05-26 09:03:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 53.402 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.723 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.092 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.259 ms
Loss rate: 0.00%

Run 7: Report of WebRTC media — Data Link



Run 8: Statistics of WebRTC media

Start at: 2018-05-26 05:23:25

End at: 2018-05-26 05:23:55

Local clock offset: 0.013 ms

Remote clock offset: 0.01 ms

Below is generated by plot.py at 2018-05-26 09:03:51

Datalink statistics

-- Total of 3 flows:

Average throughput: 0.15 Mbit/s

95th percentile per-packet one-way delay: 54.049 ms

Loss rate: 0.00%

-- Flow 1:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 53.375 ms

Loss rate: 0.00%

-- Flow 2:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.158 ms

Loss rate: 0.00%

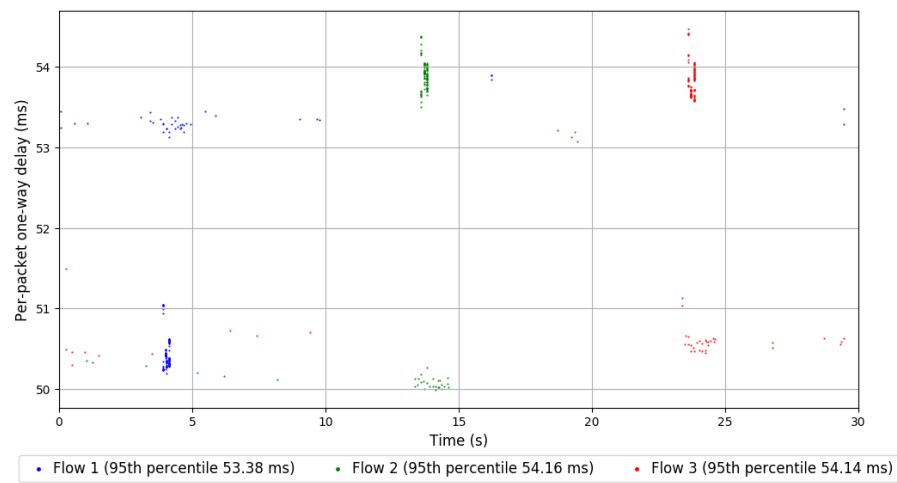
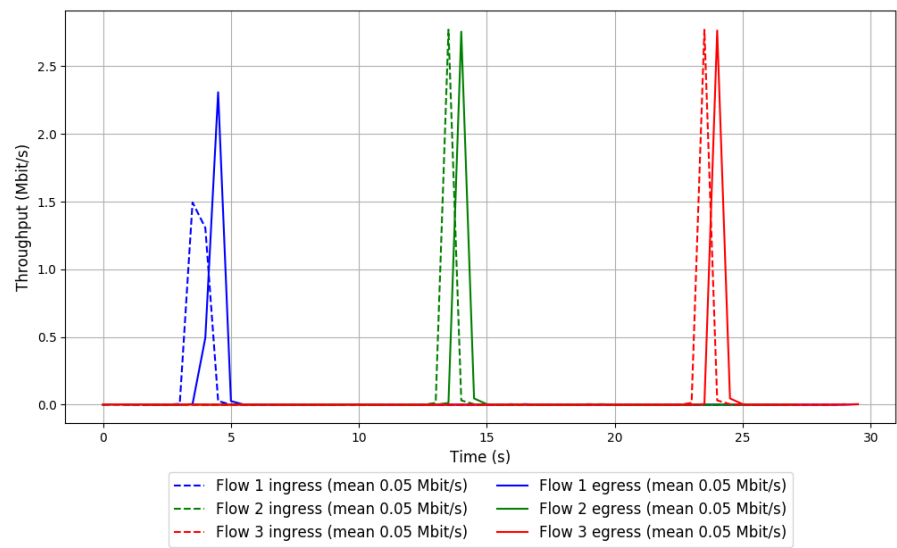
-- Flow 3:

Average throughput: 0.05 Mbit/s

95th percentile per-packet one-way delay: 54.139 ms

Loss rate: 0.00%

Run 8: Report of WebRTC media — Data Link

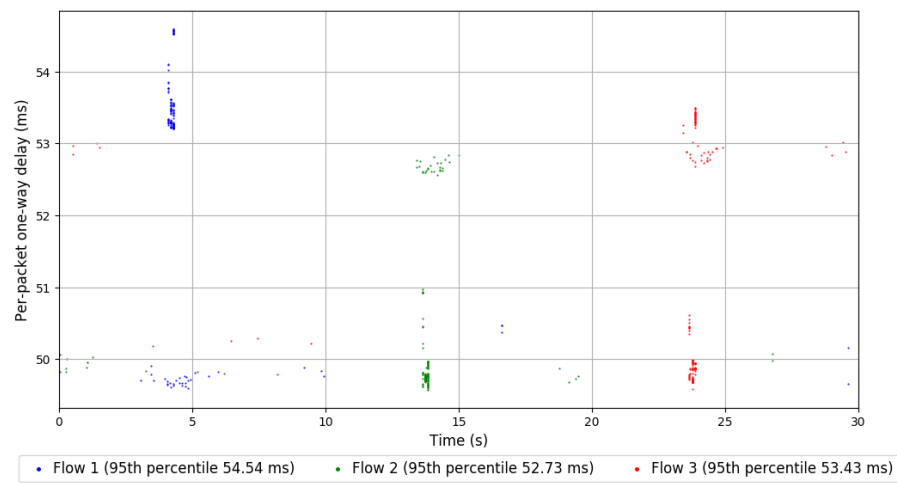
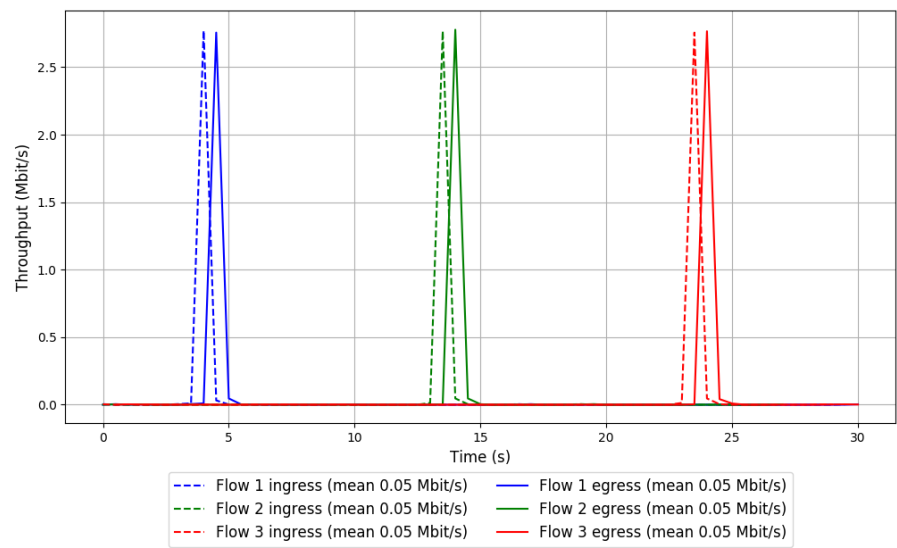


Run 9: Statistics of WebRTC media

Start at: 2018-05-26 05:46:21
End at: 2018-05-26 05:46:51
Local clock offset: 0.344 ms
Remote clock offset: -0.219 ms

Below is generated by plot.py at 2018-05-26 09:03:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.14 Mbit/s
95th percentile per-packet one-way delay: 53.616 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.541 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 52.726 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.426 ms
Loss rate: 0.00%

Run 9: Report of WebRTC media — Data Link



Run 10: Statistics of WebRTC media

Start at: 2018-05-26 06:09:06
End at: 2018-05-26 06:09:36
Local clock offset: -0.149 ms
Remote clock offset: -0.091 ms

Below is generated by plot.py at 2018-05-26 09:03:51
Datalink statistics
-- Total of 3 flows:
Average throughput: 0.15 Mbit/s
95th percentile per-packet one-way delay: 53.861 ms
Loss rate: 0.00%
-- Flow 1:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.688 ms
Loss rate: 0.00%
-- Flow 2:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 53.695 ms
Loss rate: 0.00%
-- Flow 3:
Average throughput: 0.05 Mbit/s
95th percentile per-packet one-way delay: 54.032 ms
Loss rate: 0.00%

Run 10: Report of WebRTC media — Data Link

