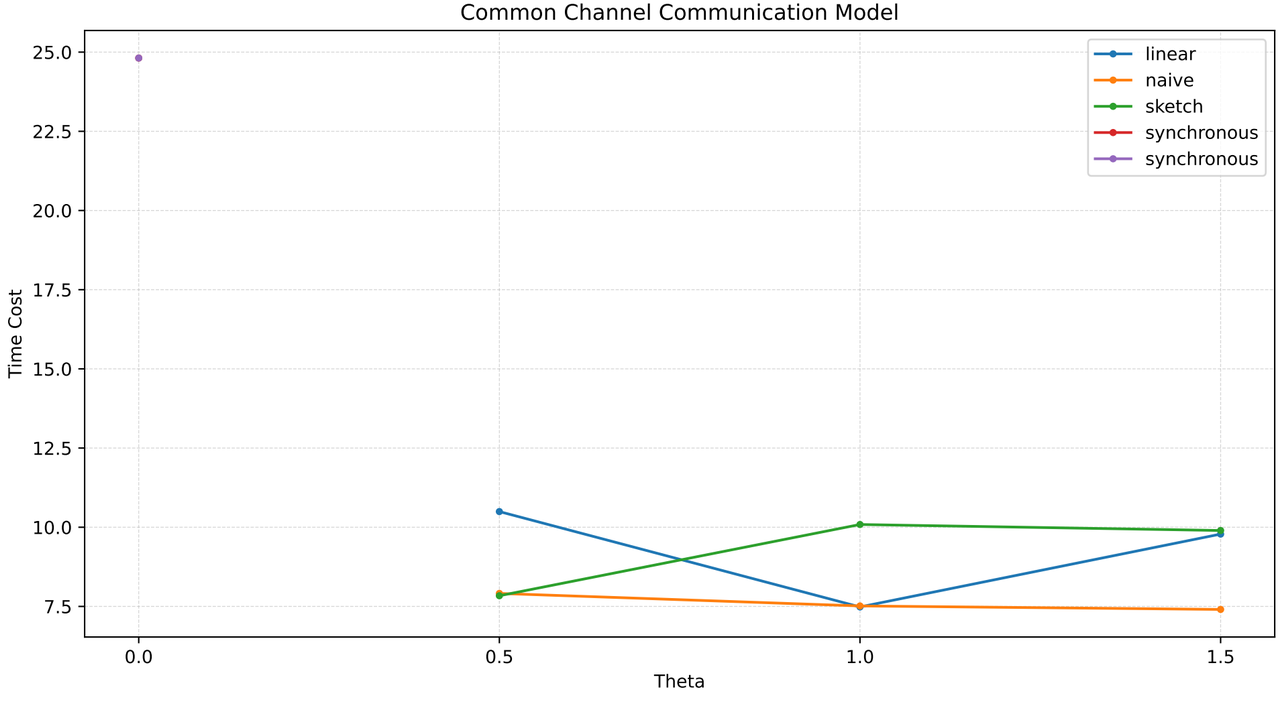
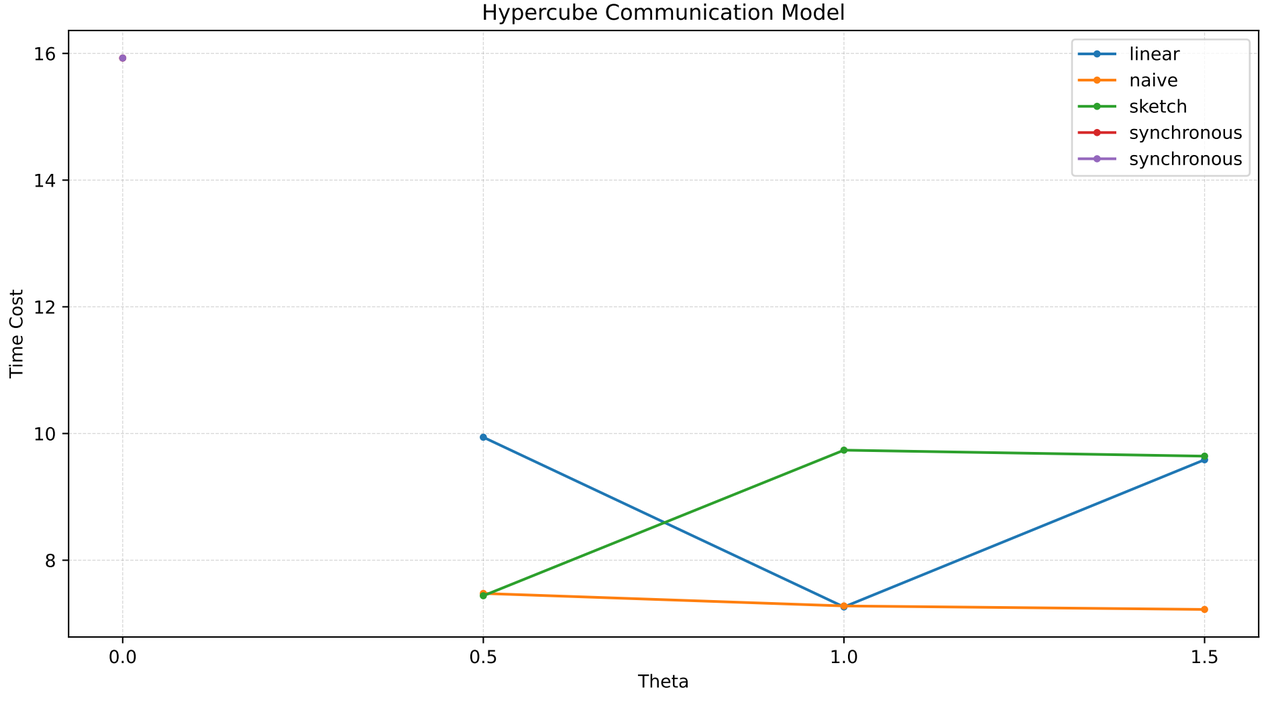
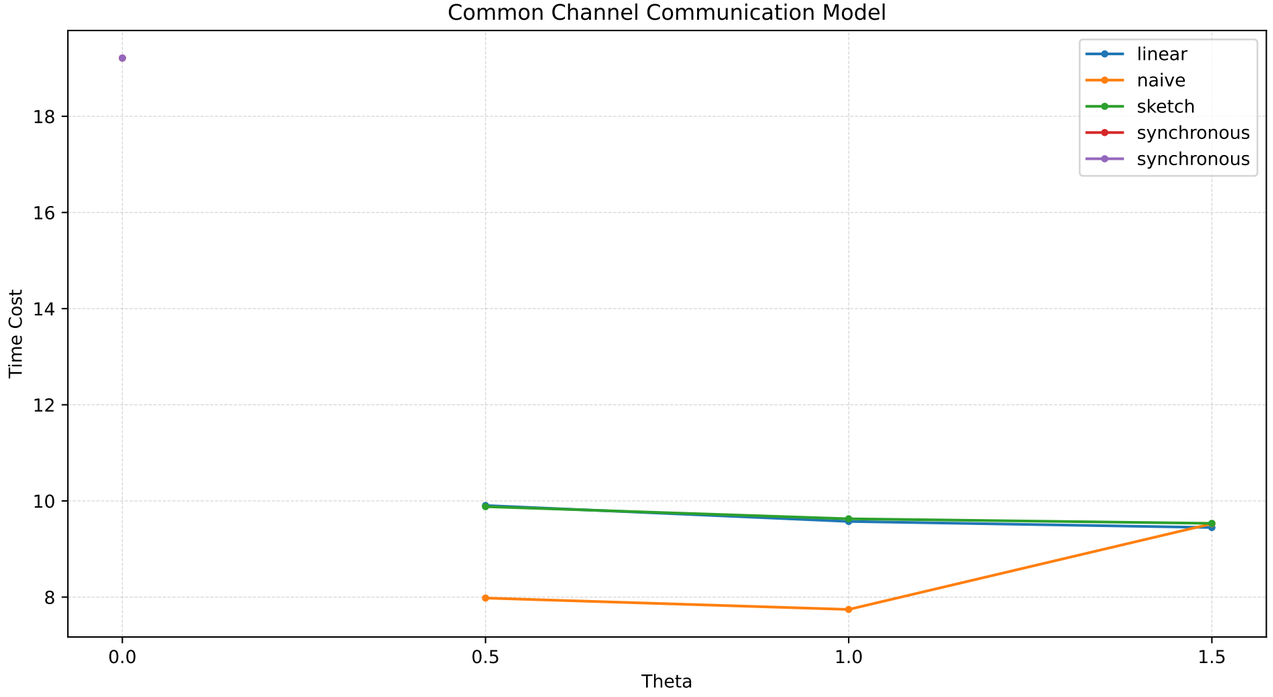
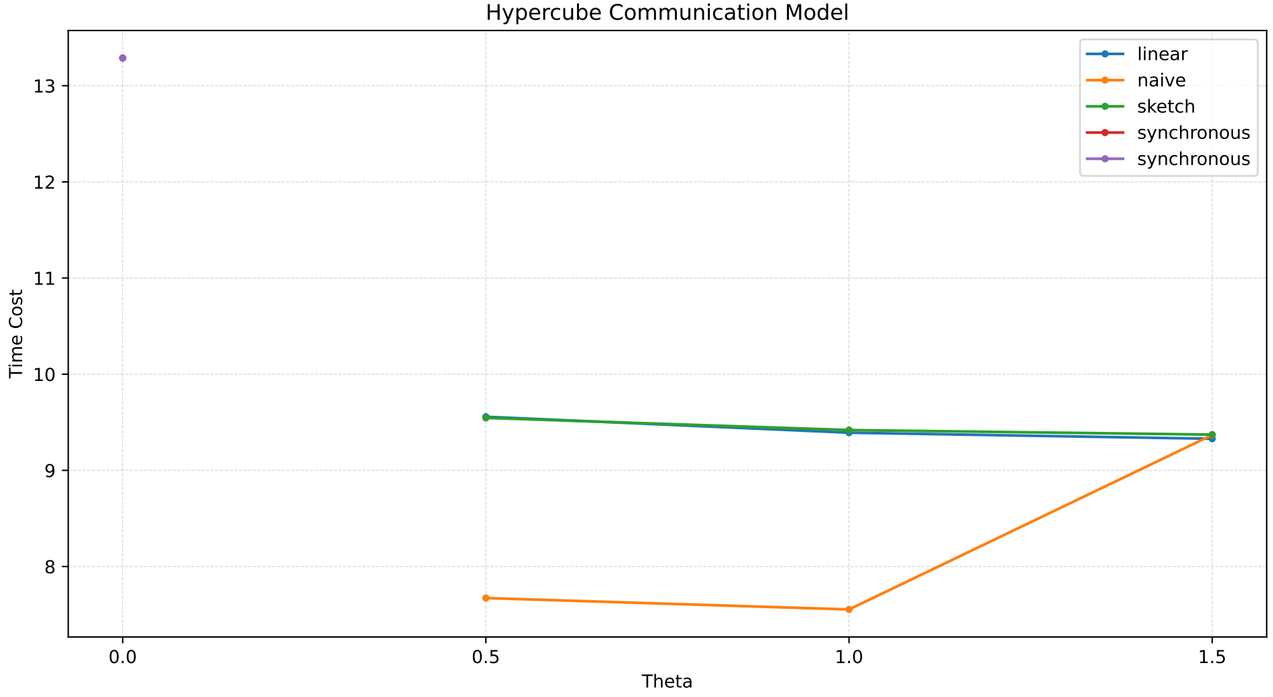
Num Clients : 5 , Batch Size : 32



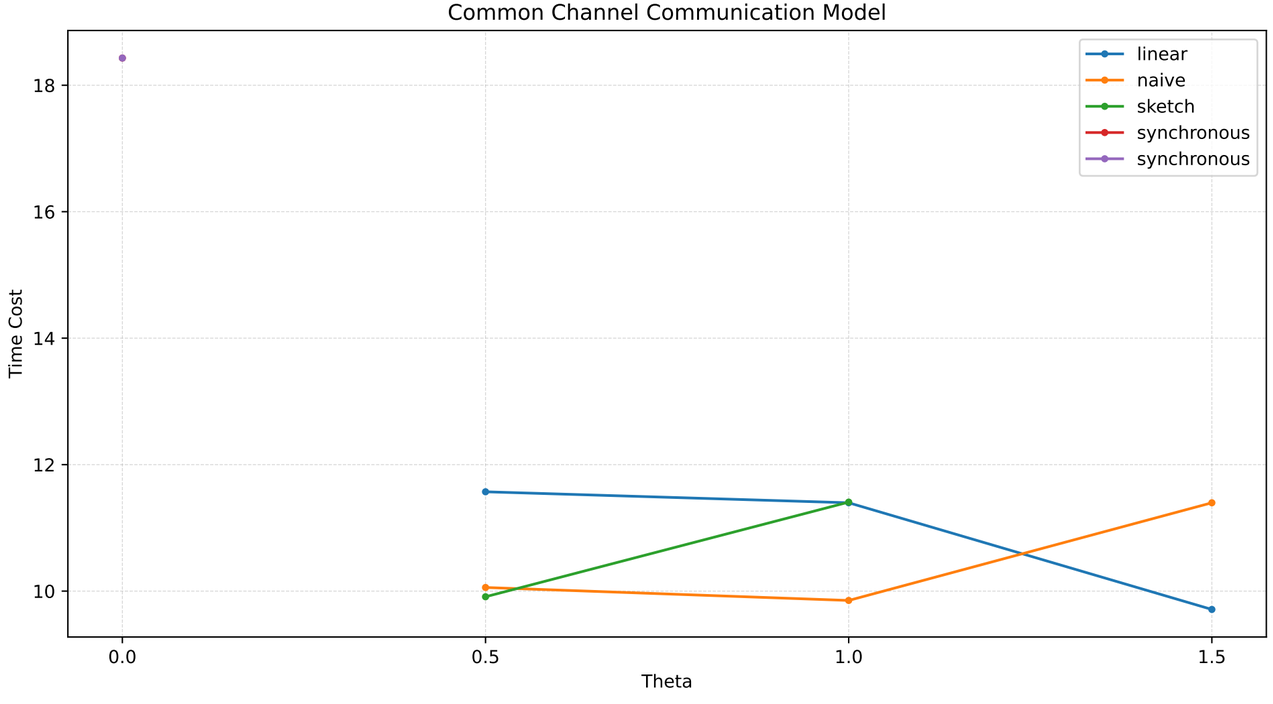


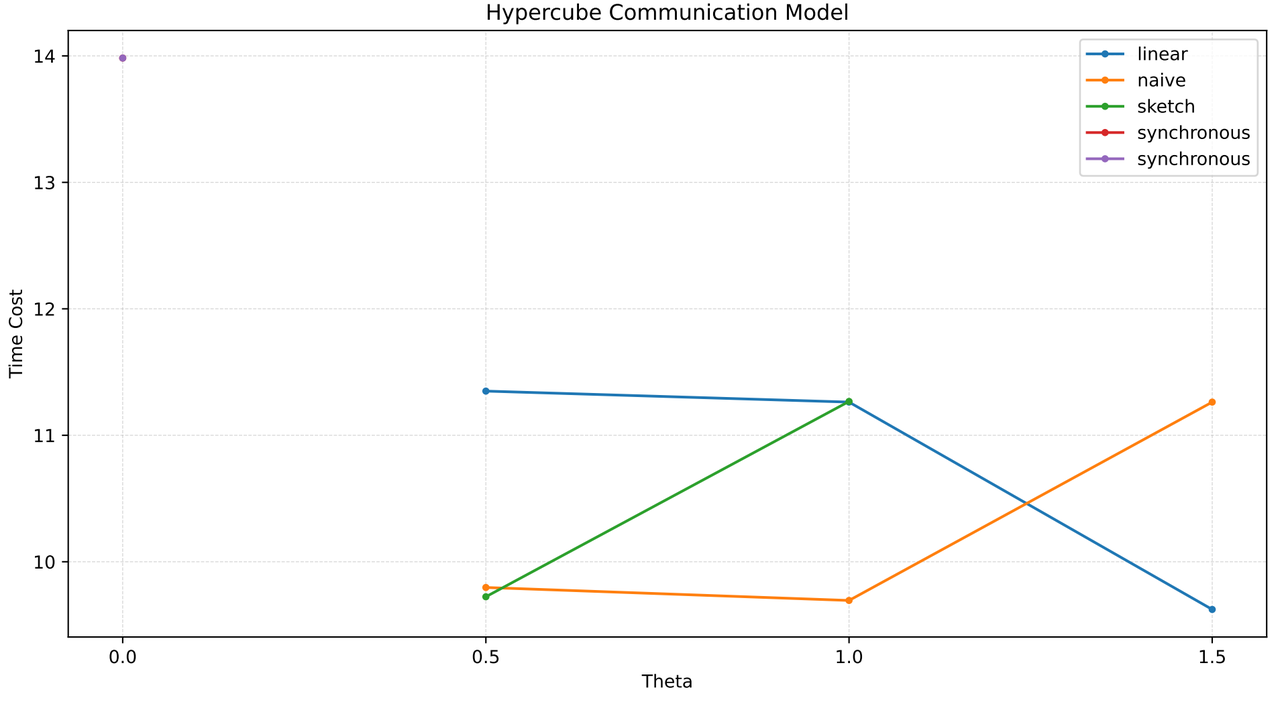
Num Clients : 5 , Batch Size : 64



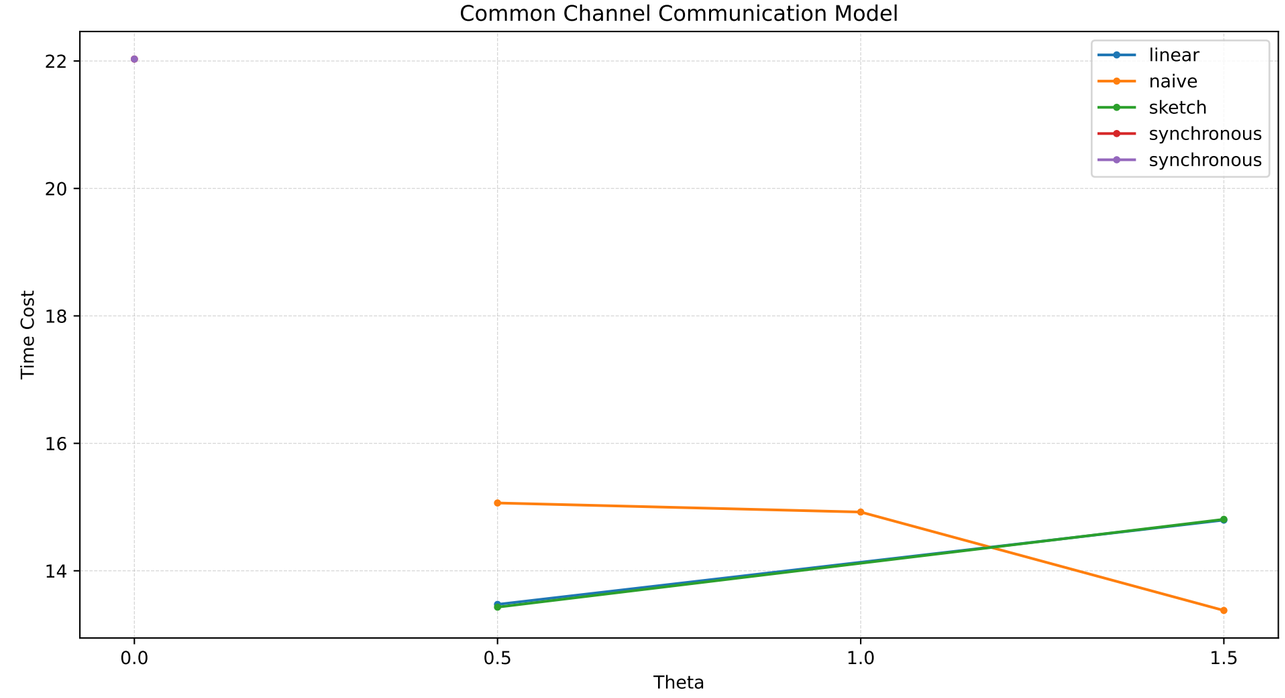


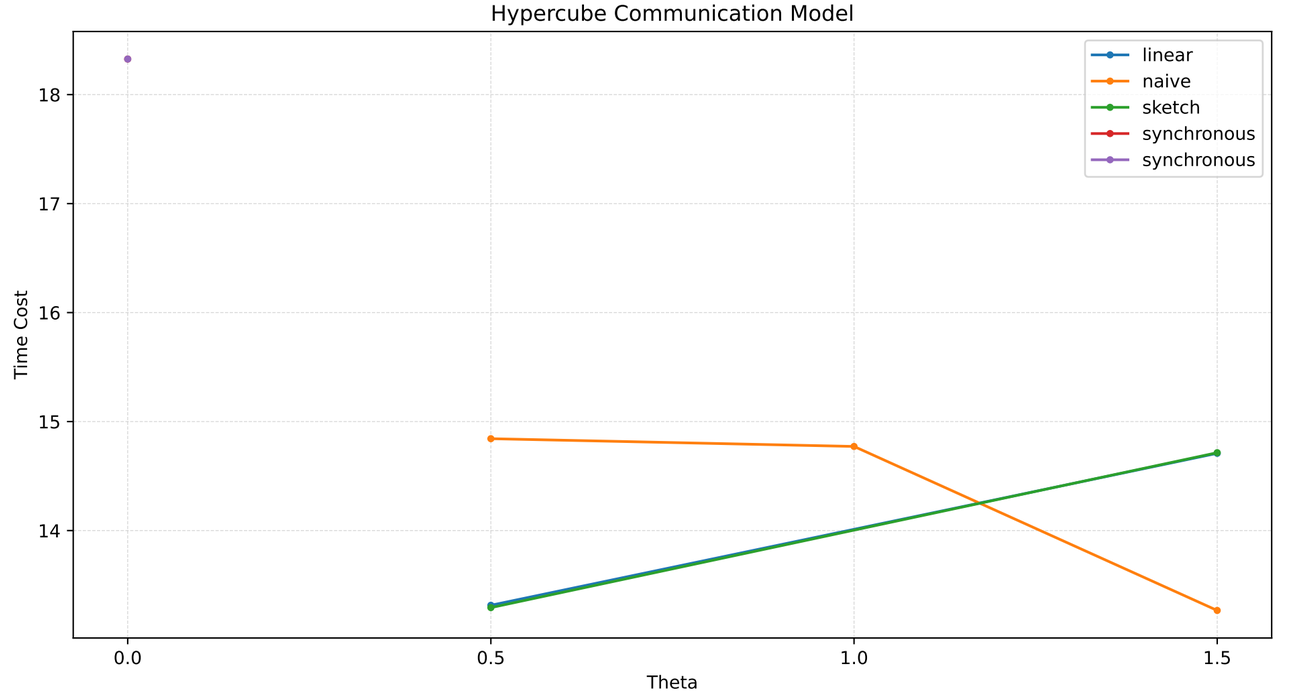
Num Clients : 5 , Batch Size : 128



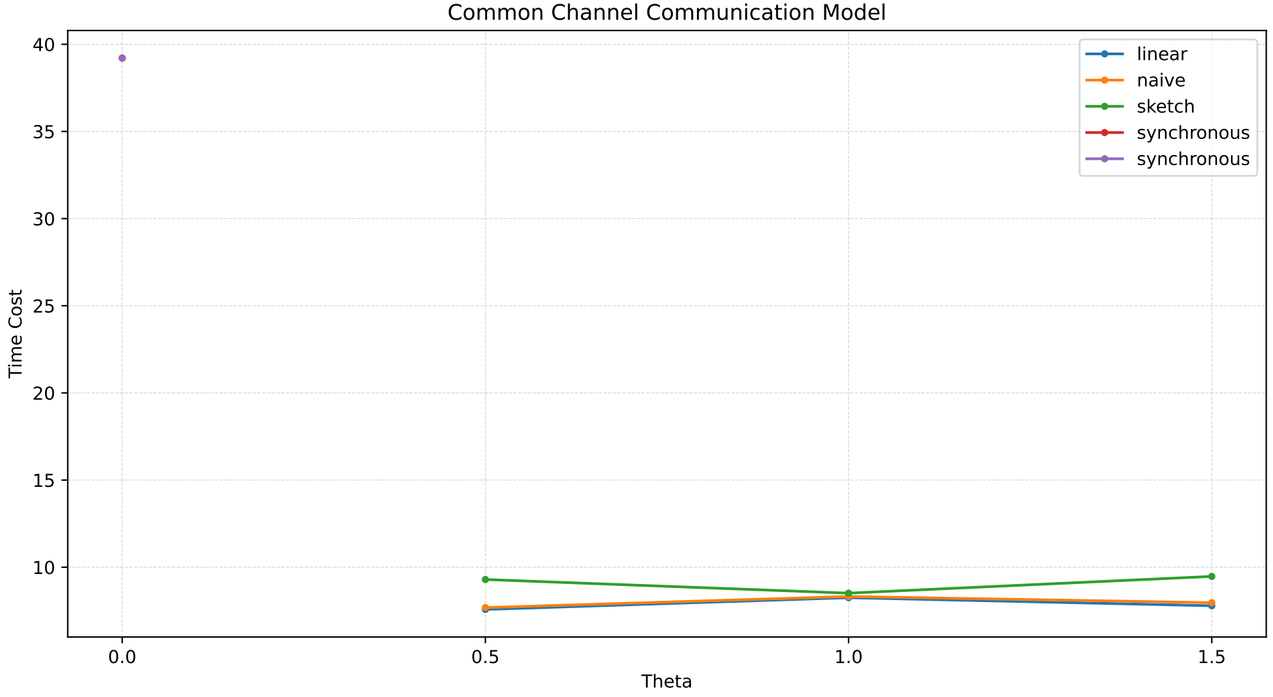


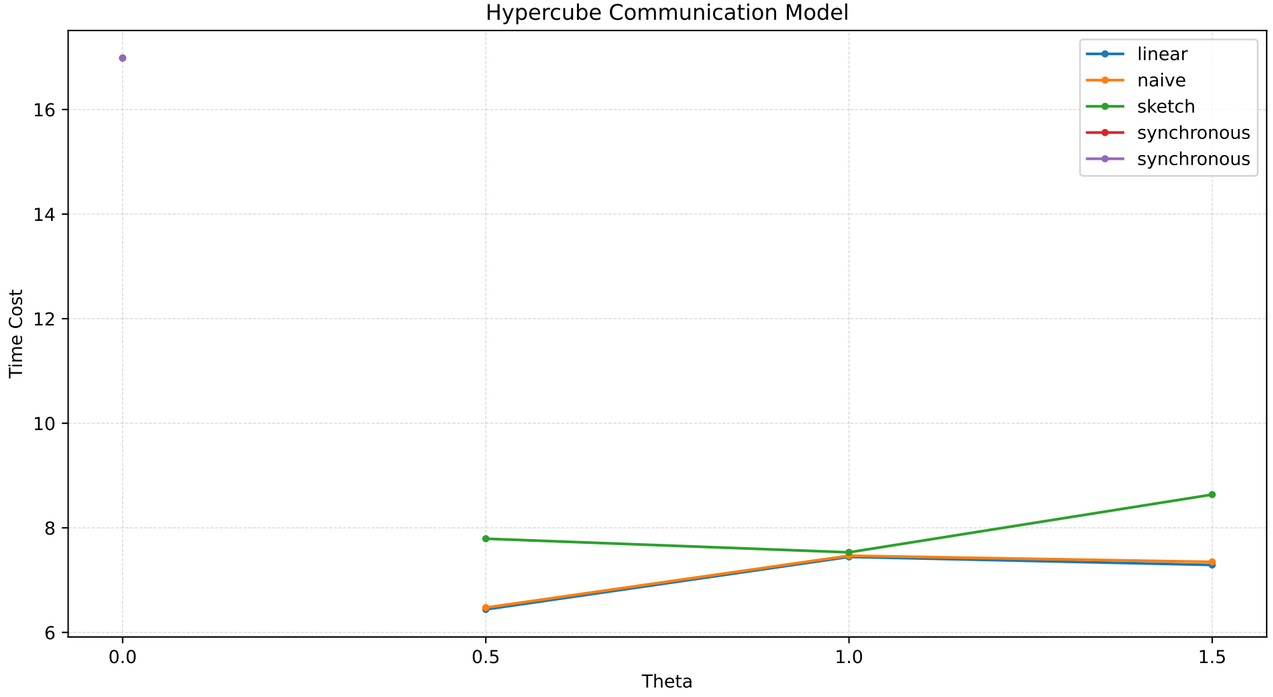
Num Clients : 5 , Batch Size : 256



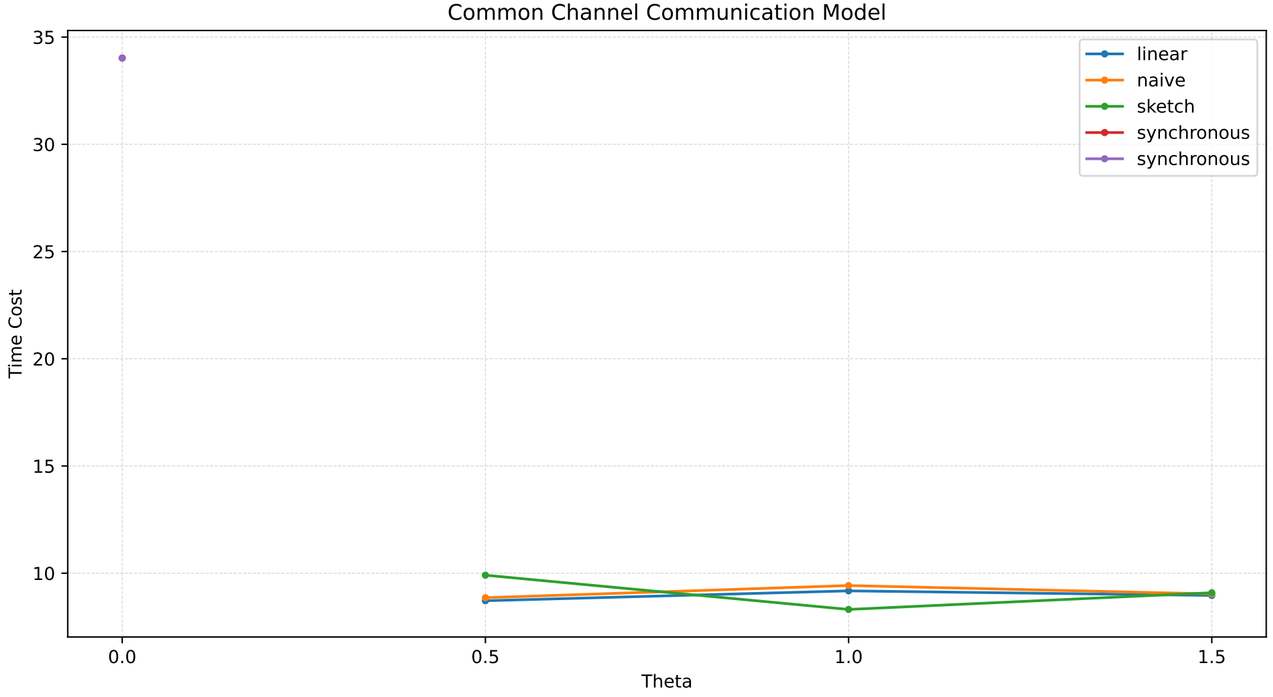


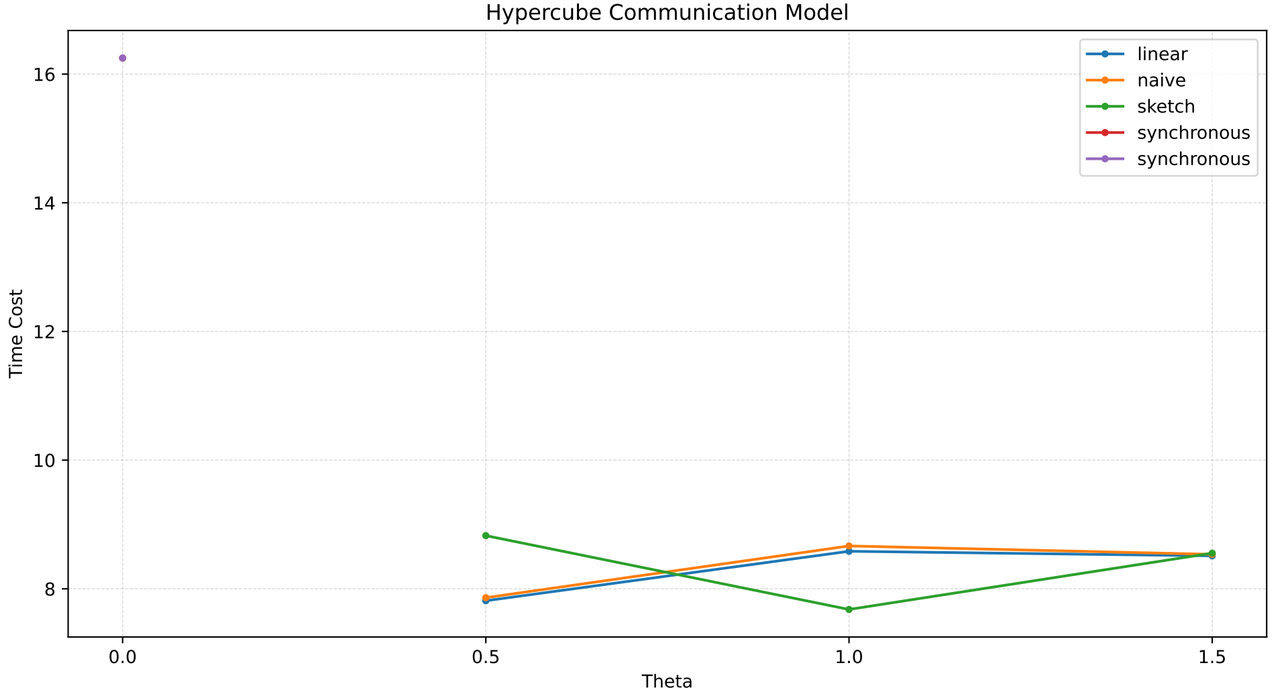
Num Clients : 10 , Batch Size : 32



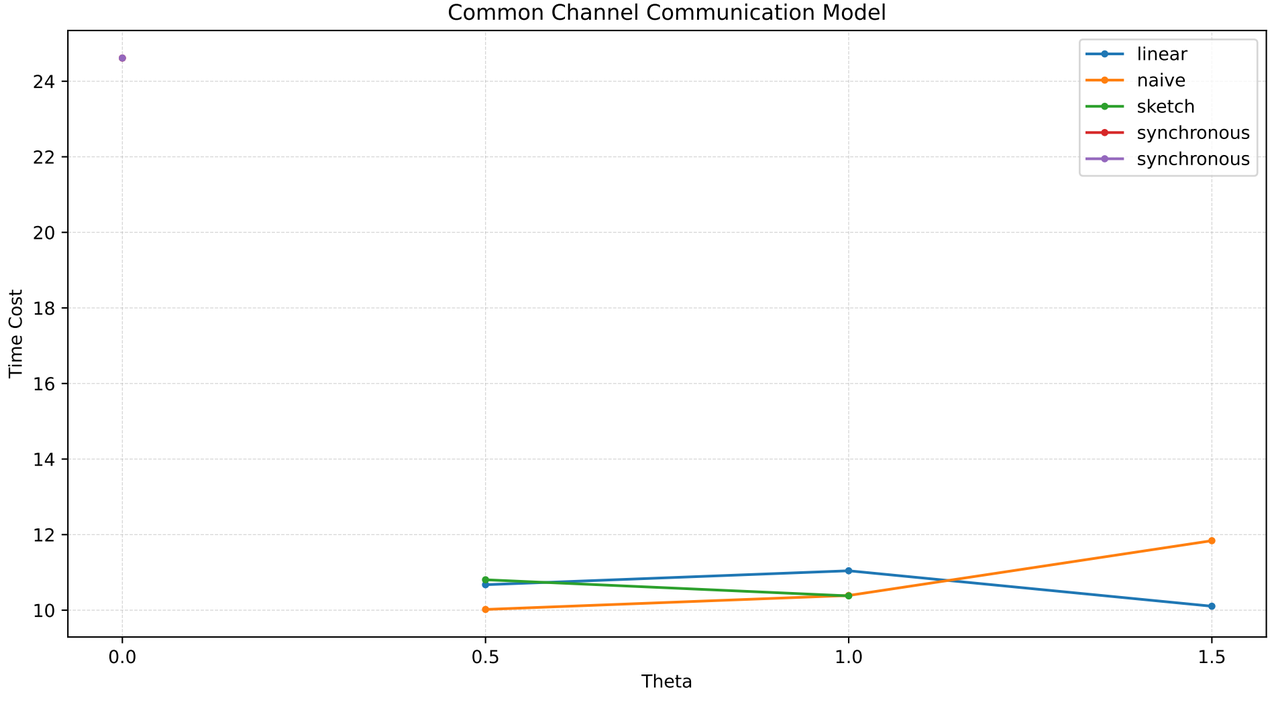


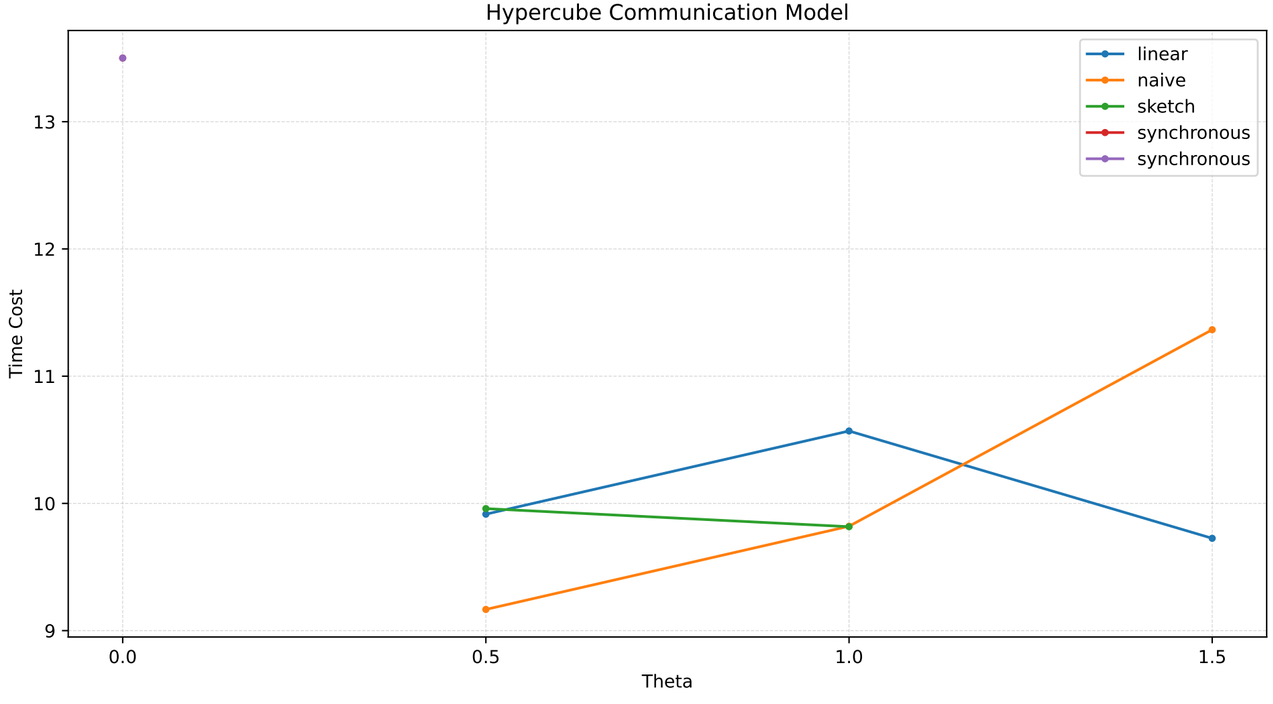
Num Clients : 10 , Batch Size : 64



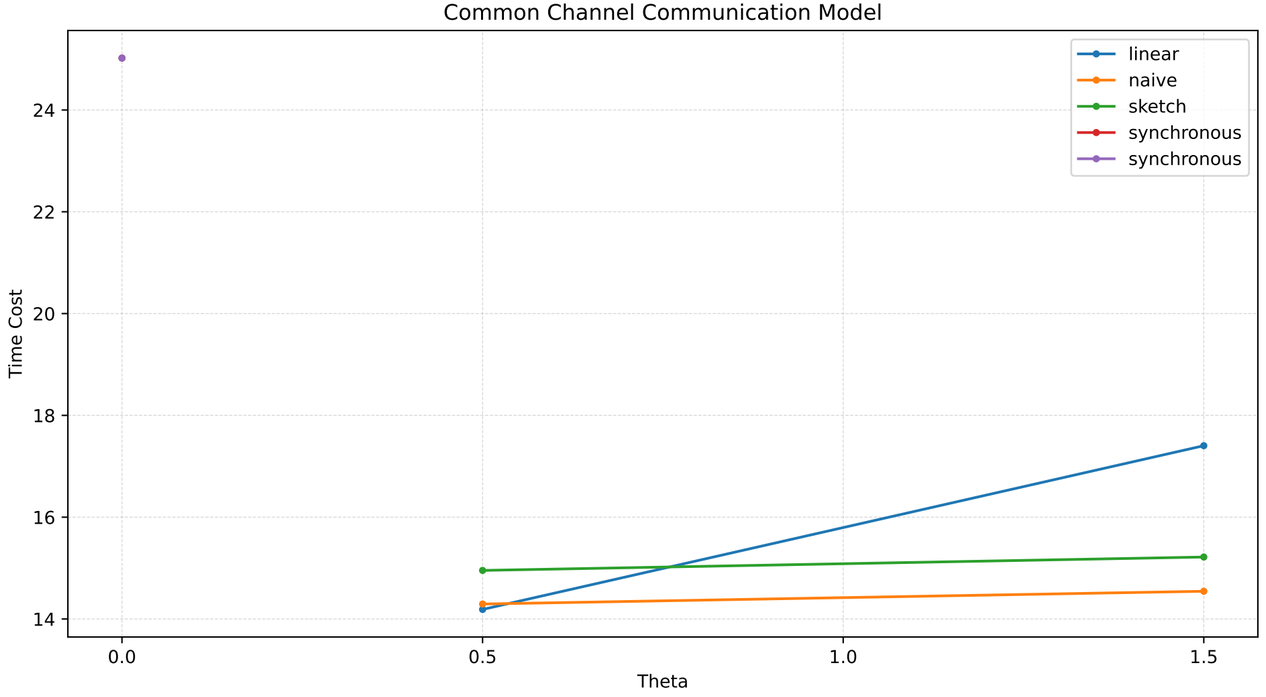


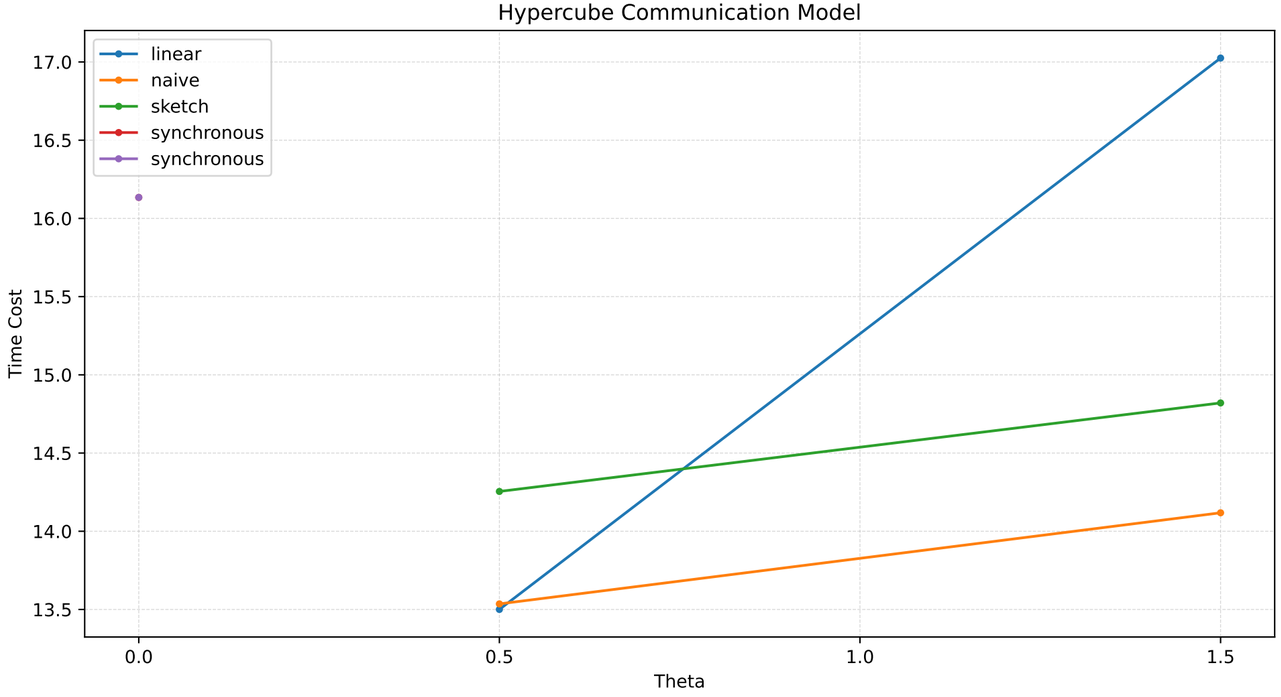
Num Clients : 10 , Batch Size : 128



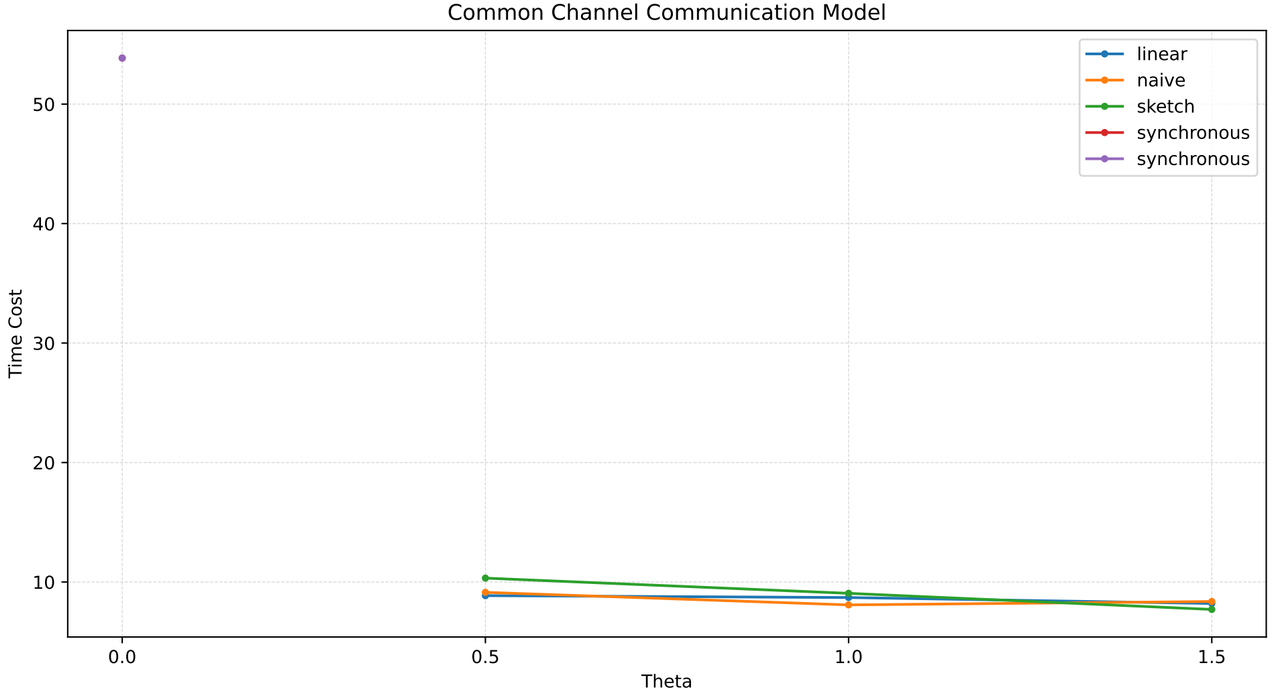


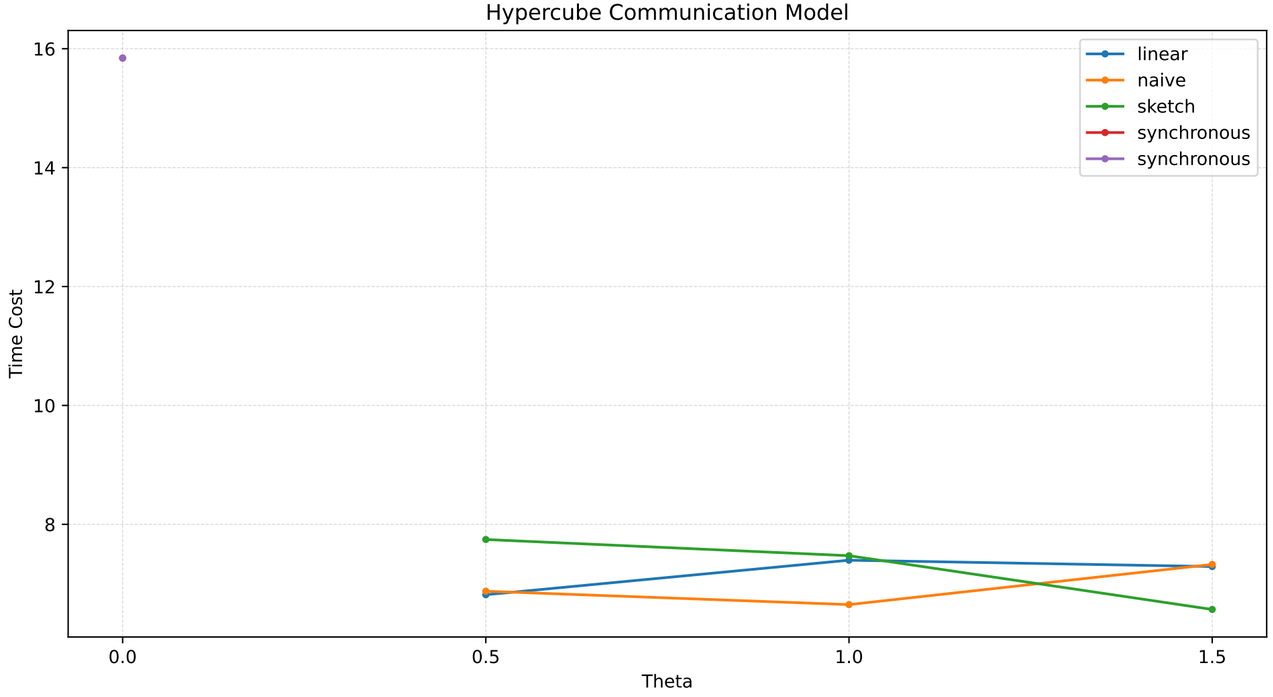
Num Clients : 10 , Batch Size : 256



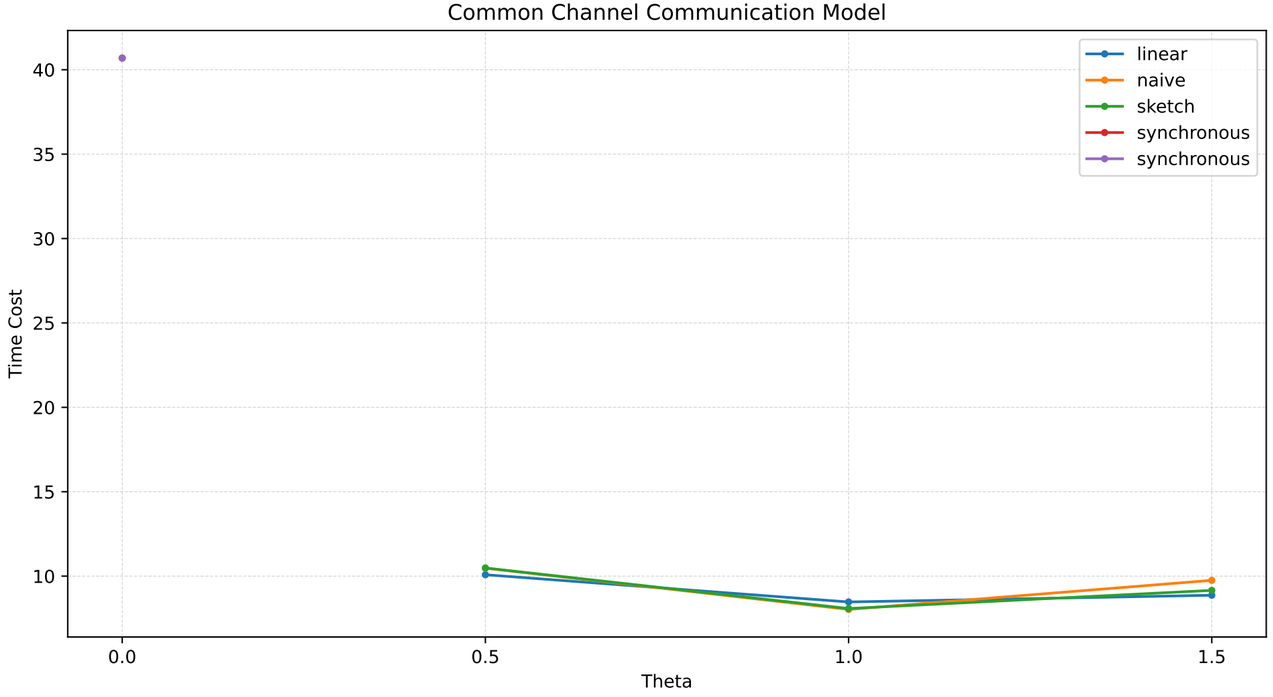


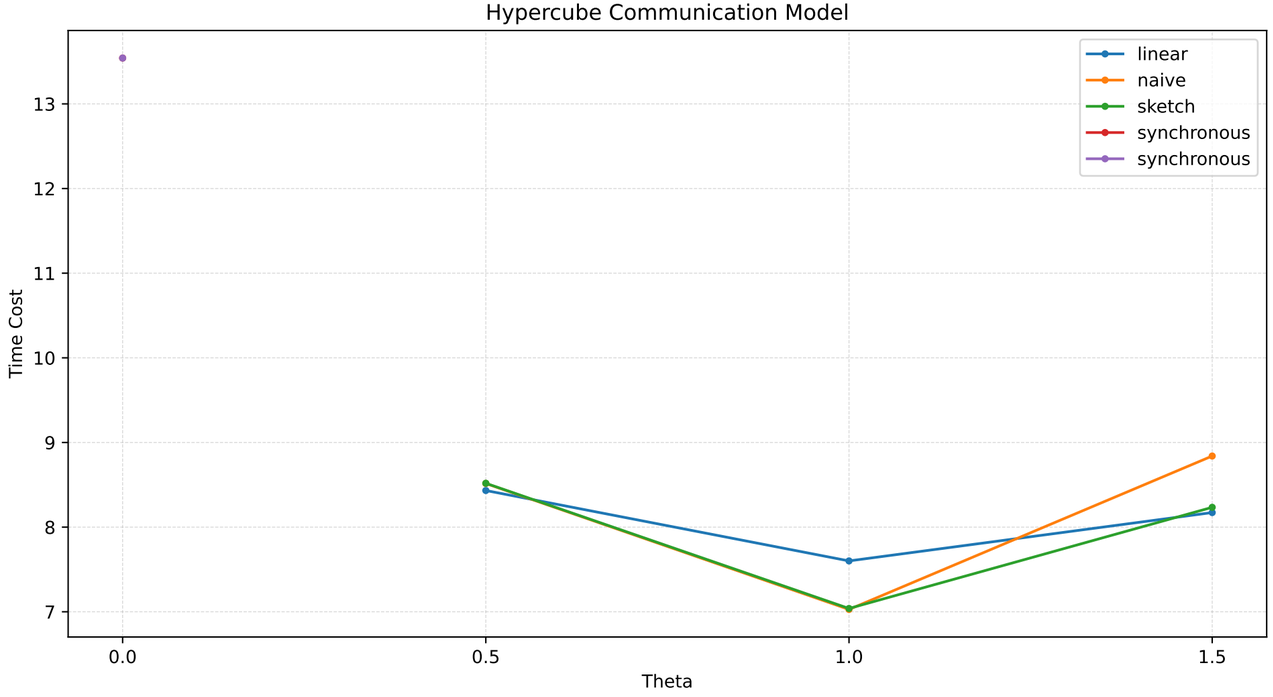
Num Clients : 15 , Batch Size : 32



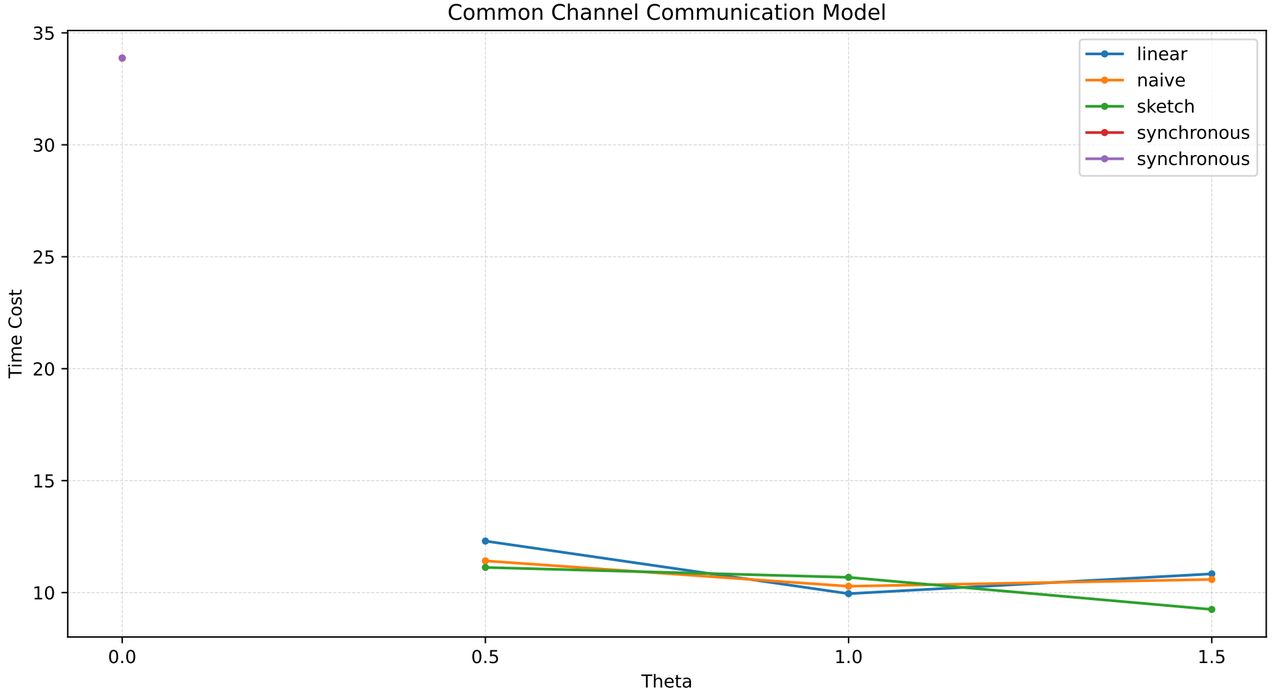


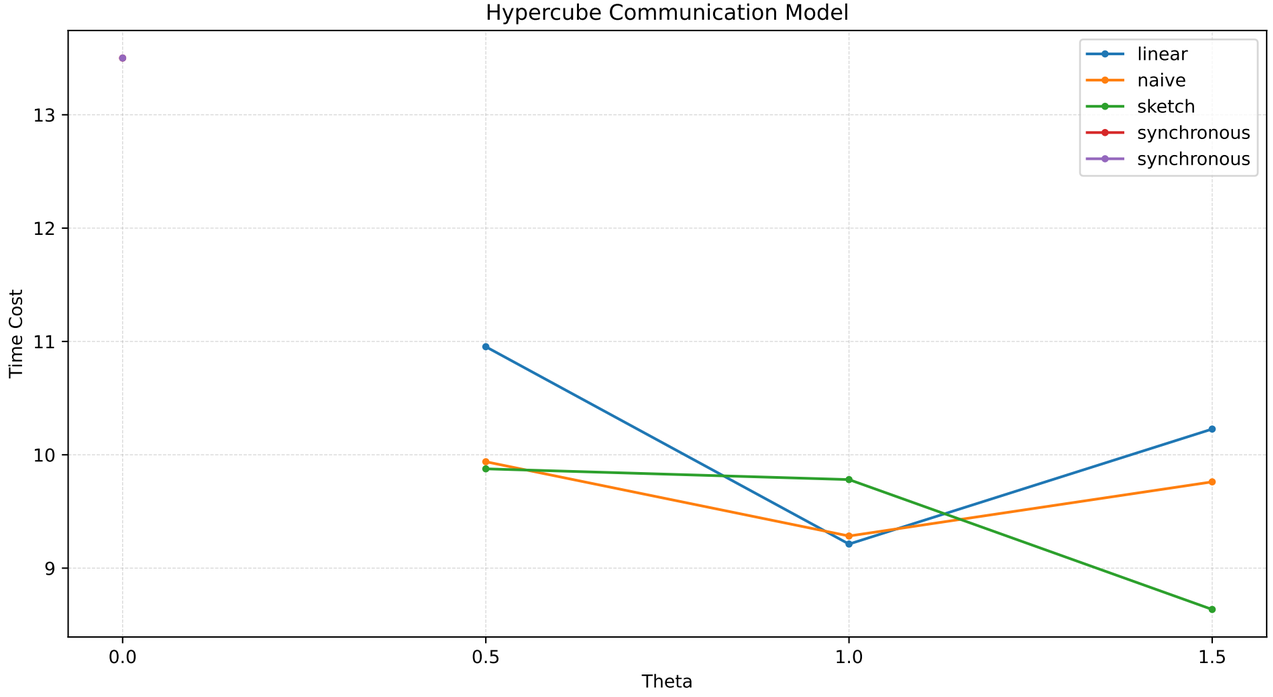
Num Clients : 15 , Batch Size : 64



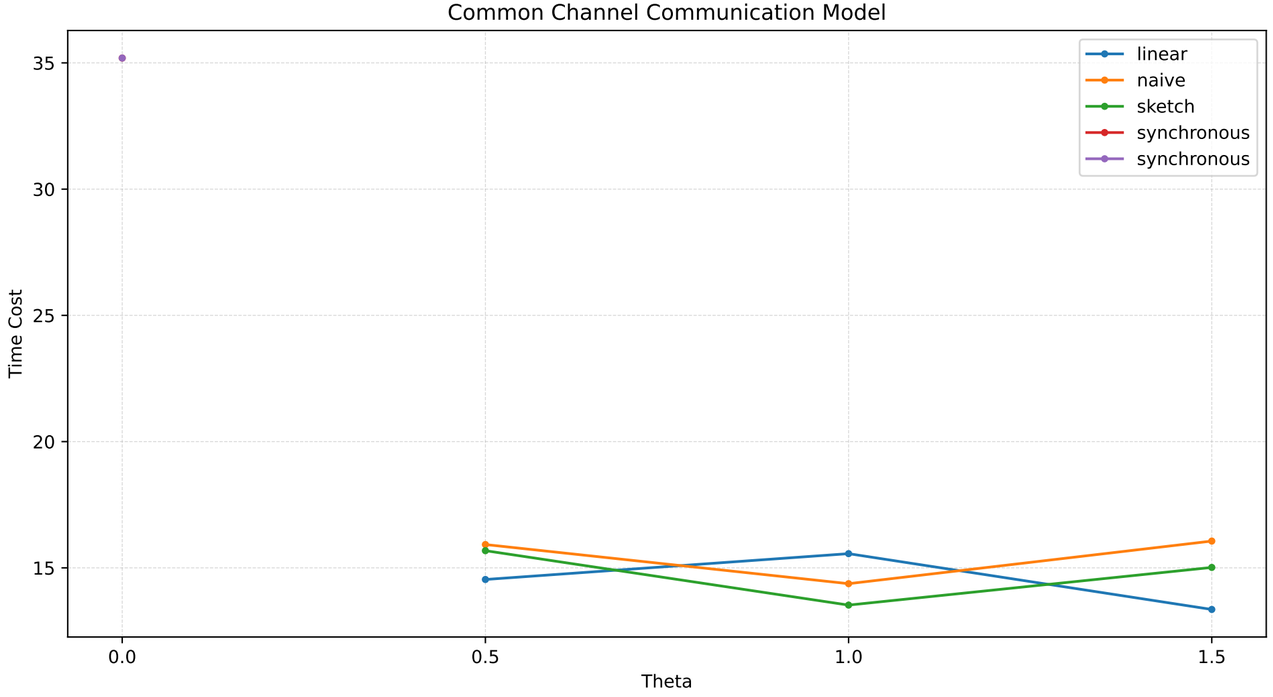


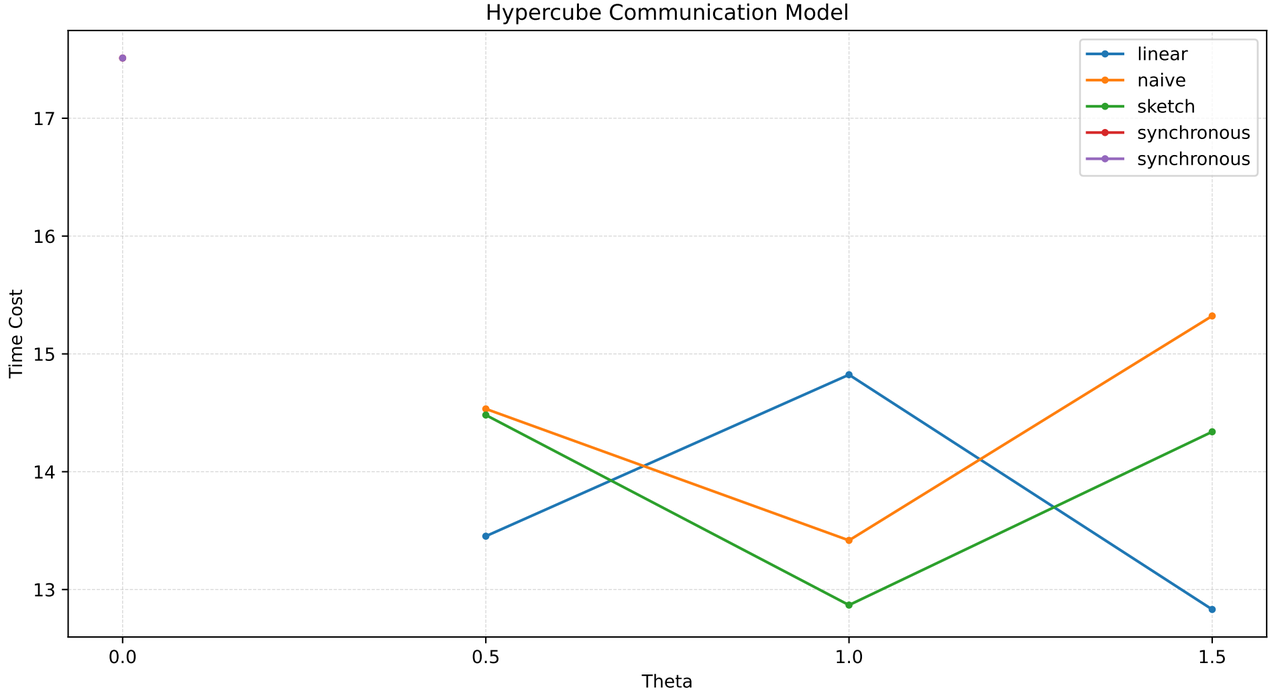
Num Clients : 15 , Batch Size : 128



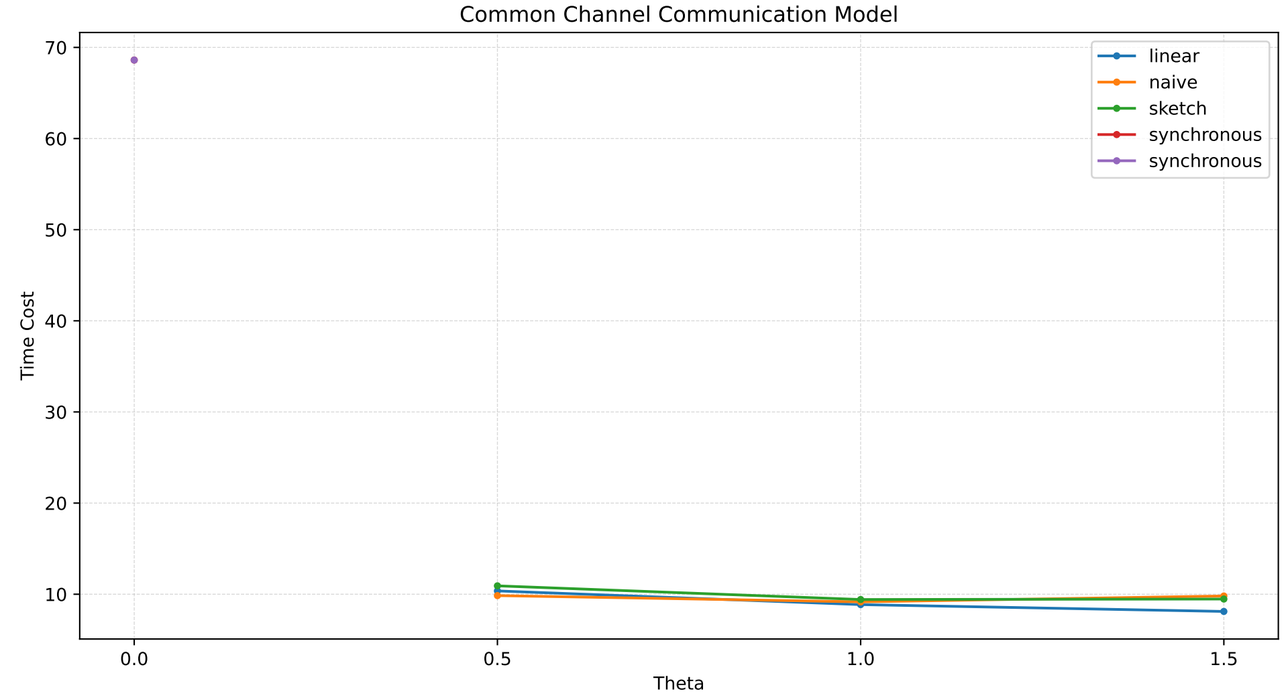


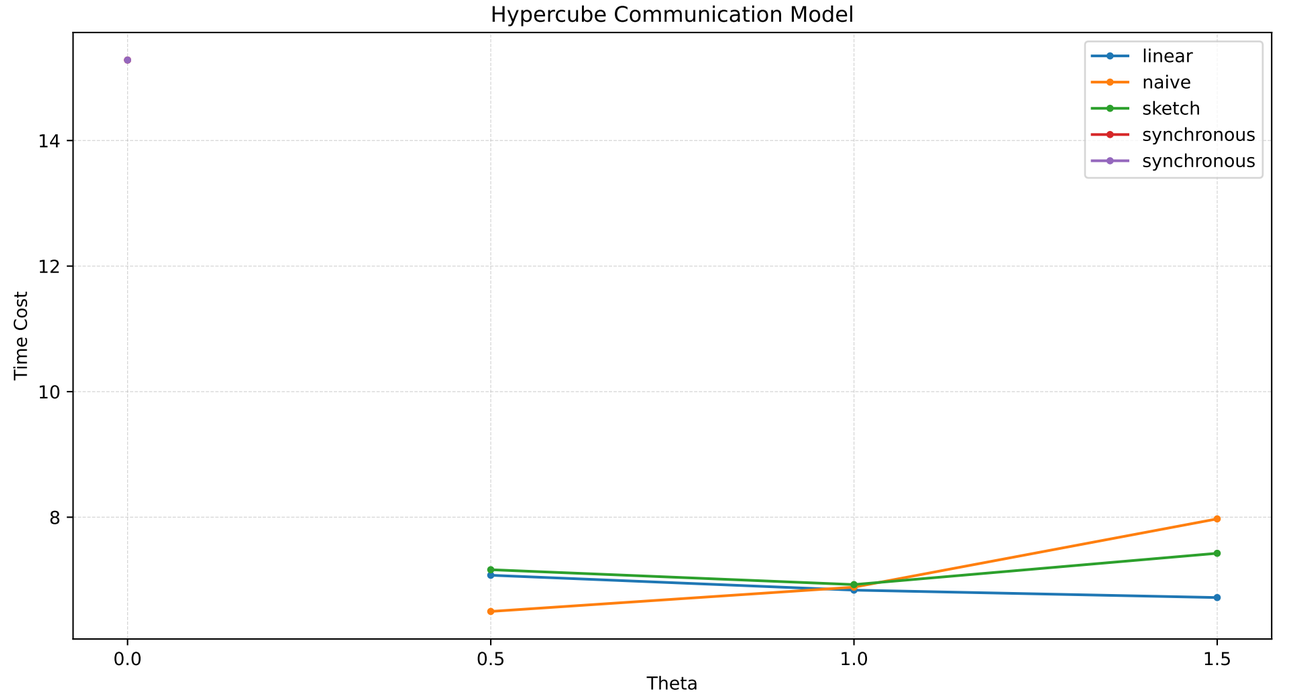
Num Clients : 15 , Batch Size : 256



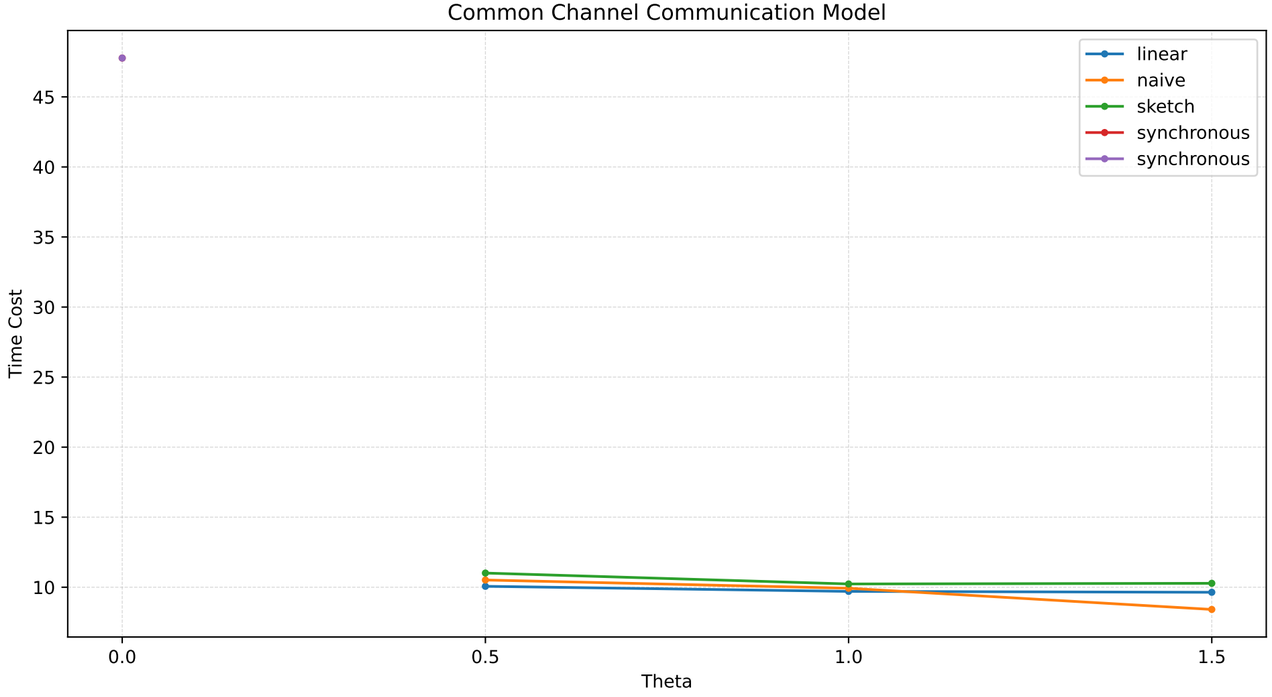


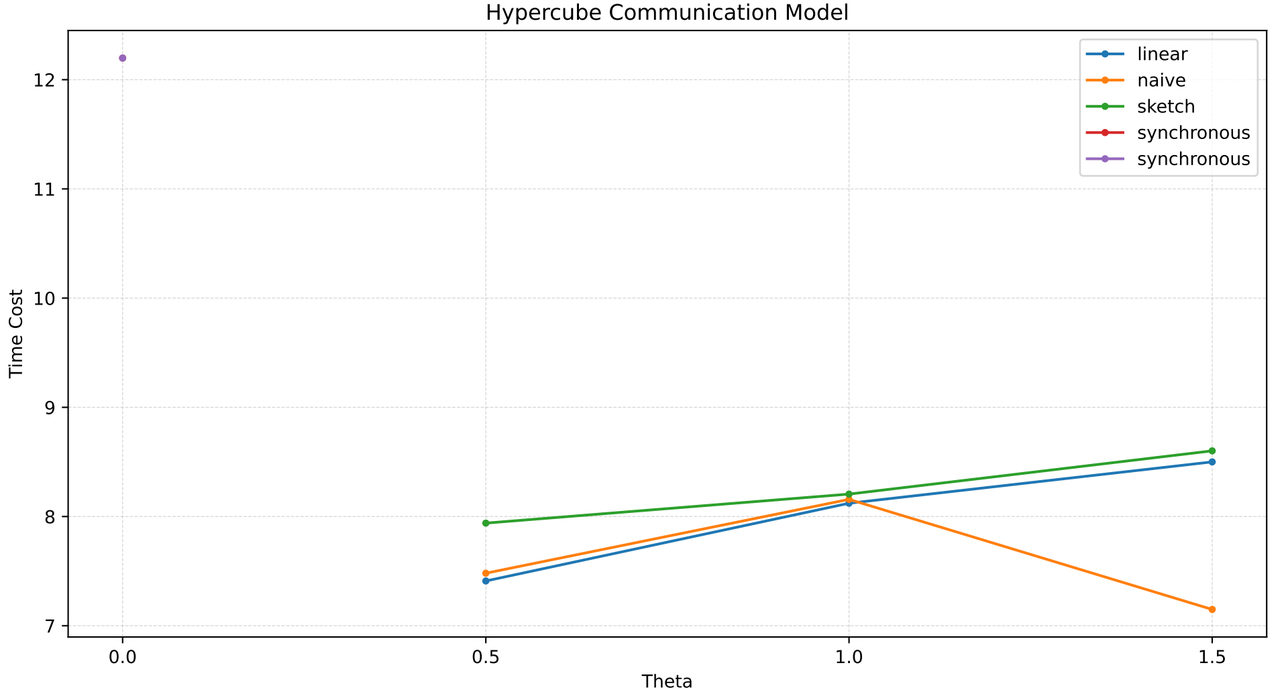
Num Clients : 20 , Batch Size : 32



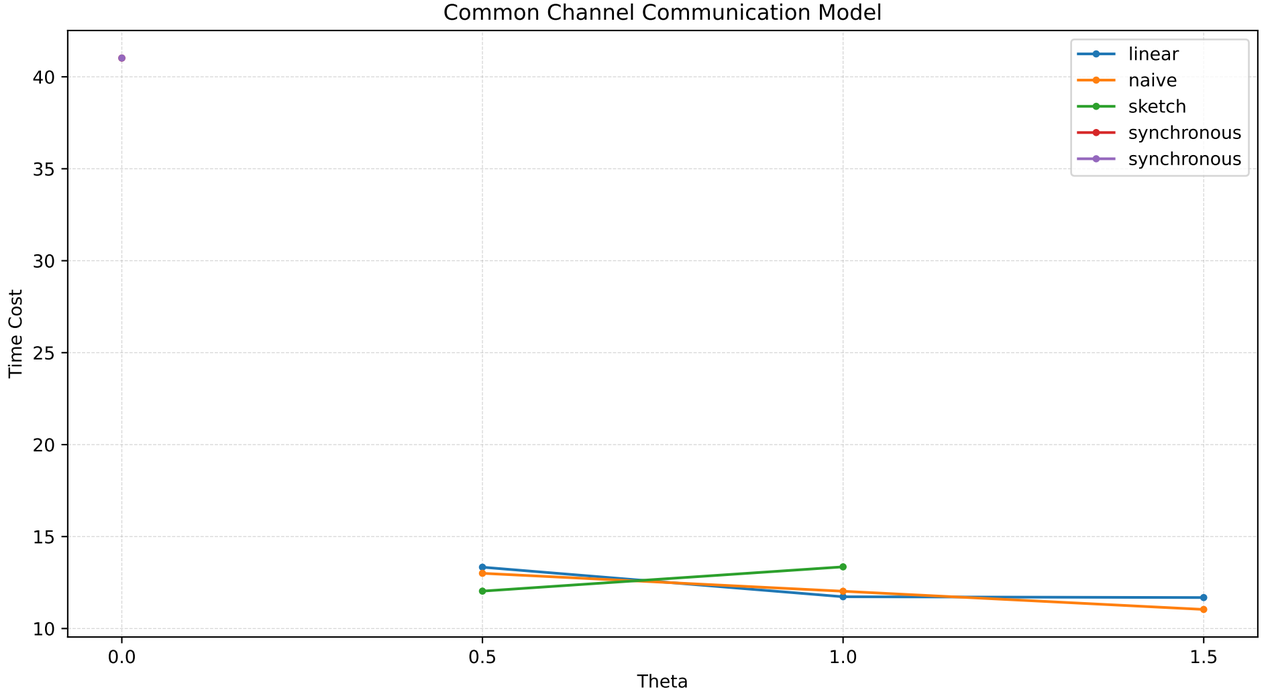


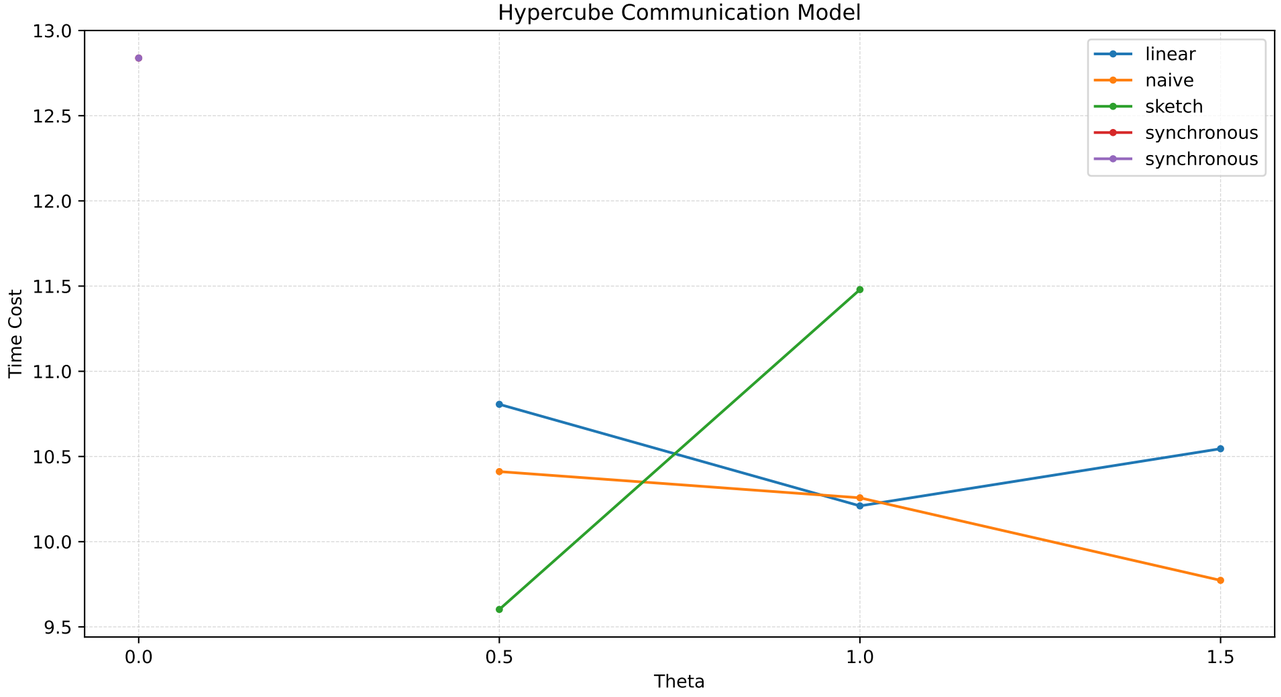
Num Clients : 20 , Batch Size : 64



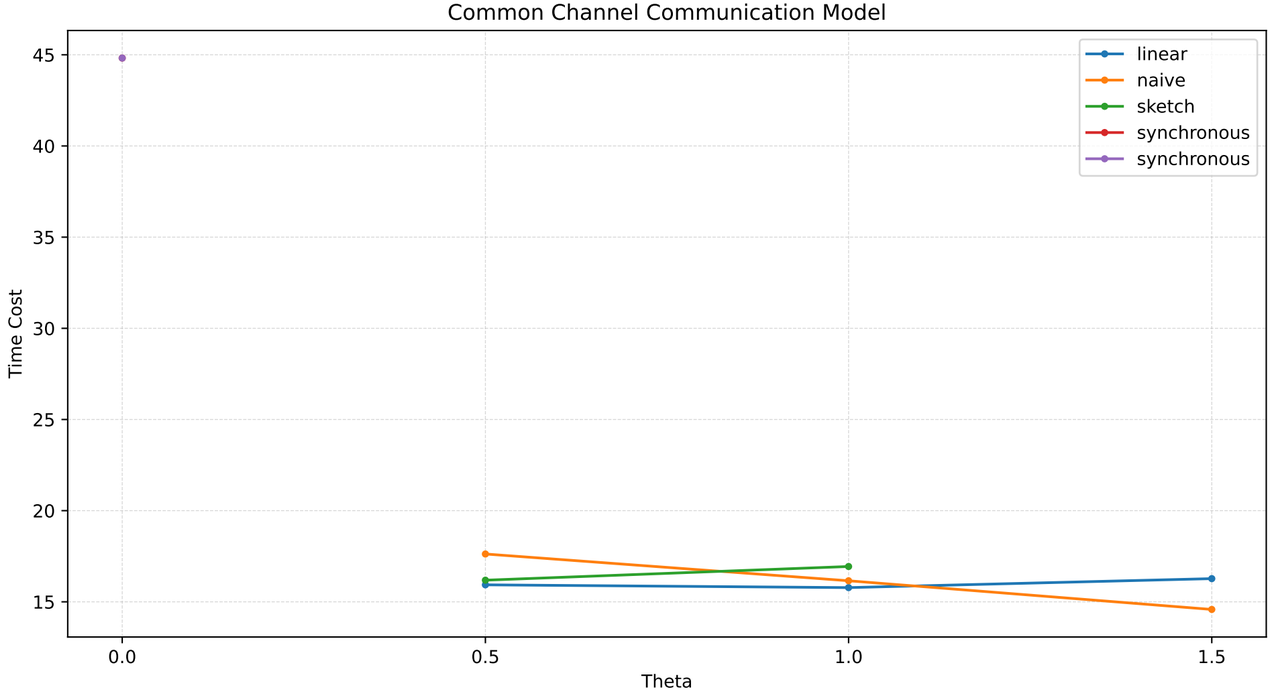


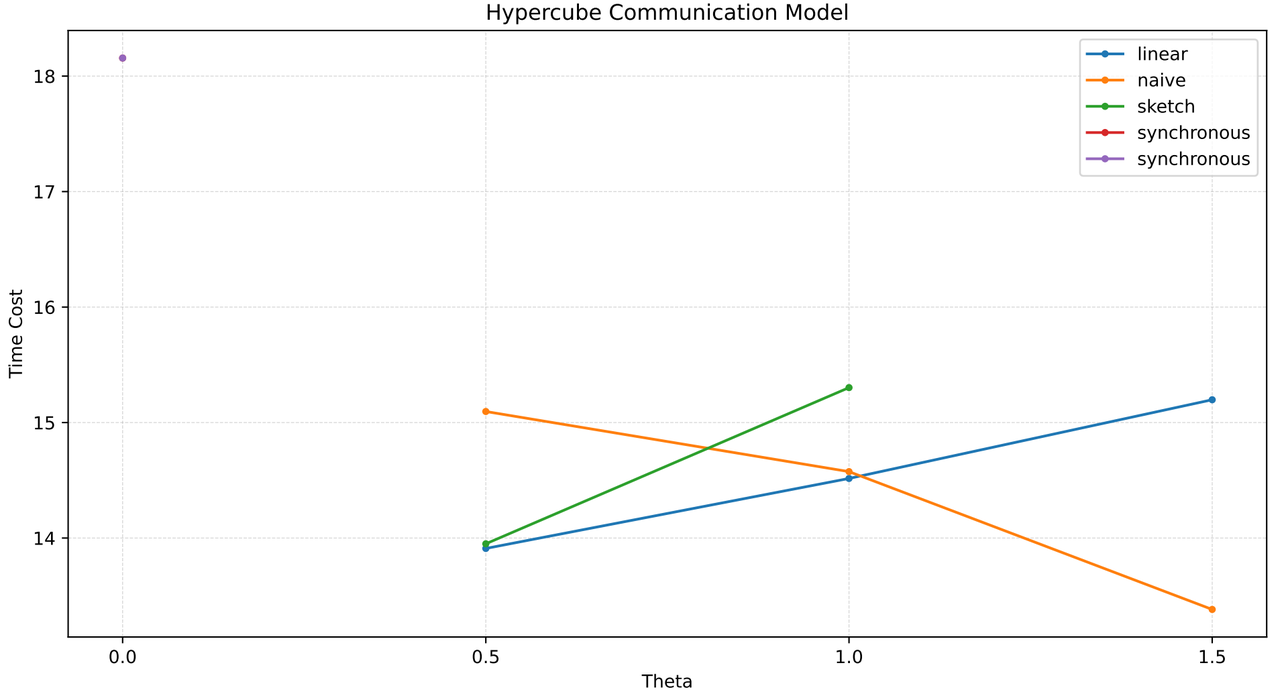
Num Clients : 20 , Batch Size : 128



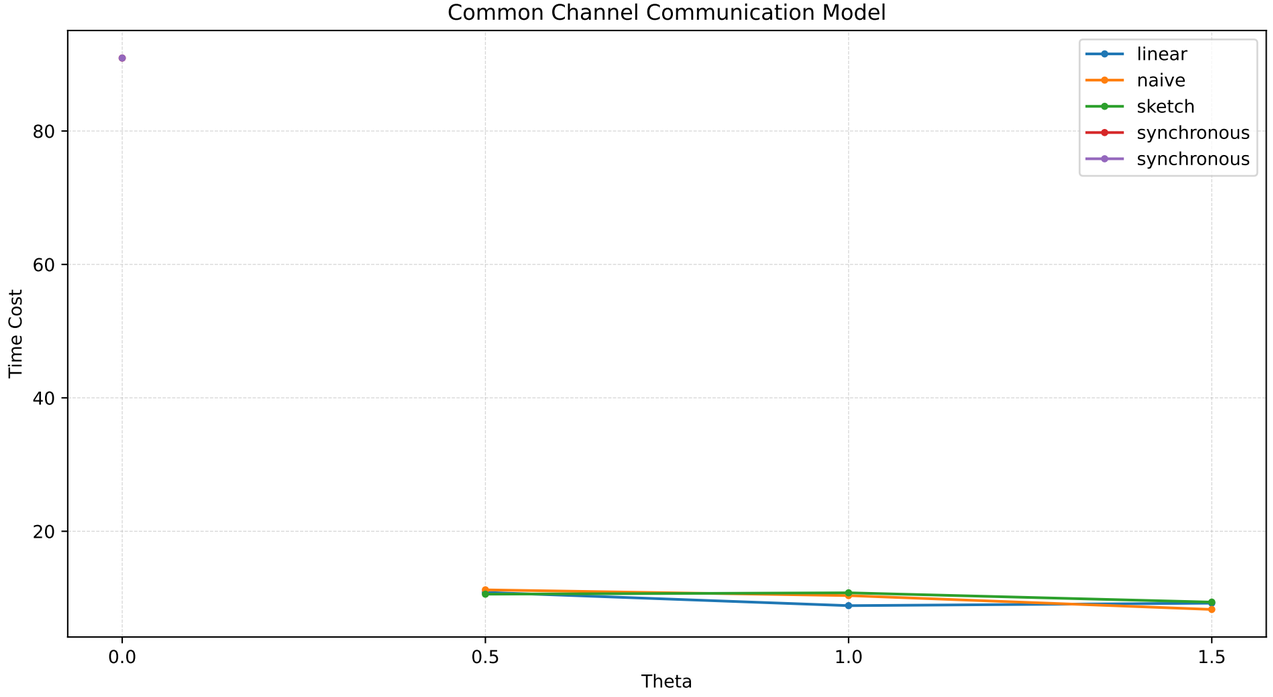


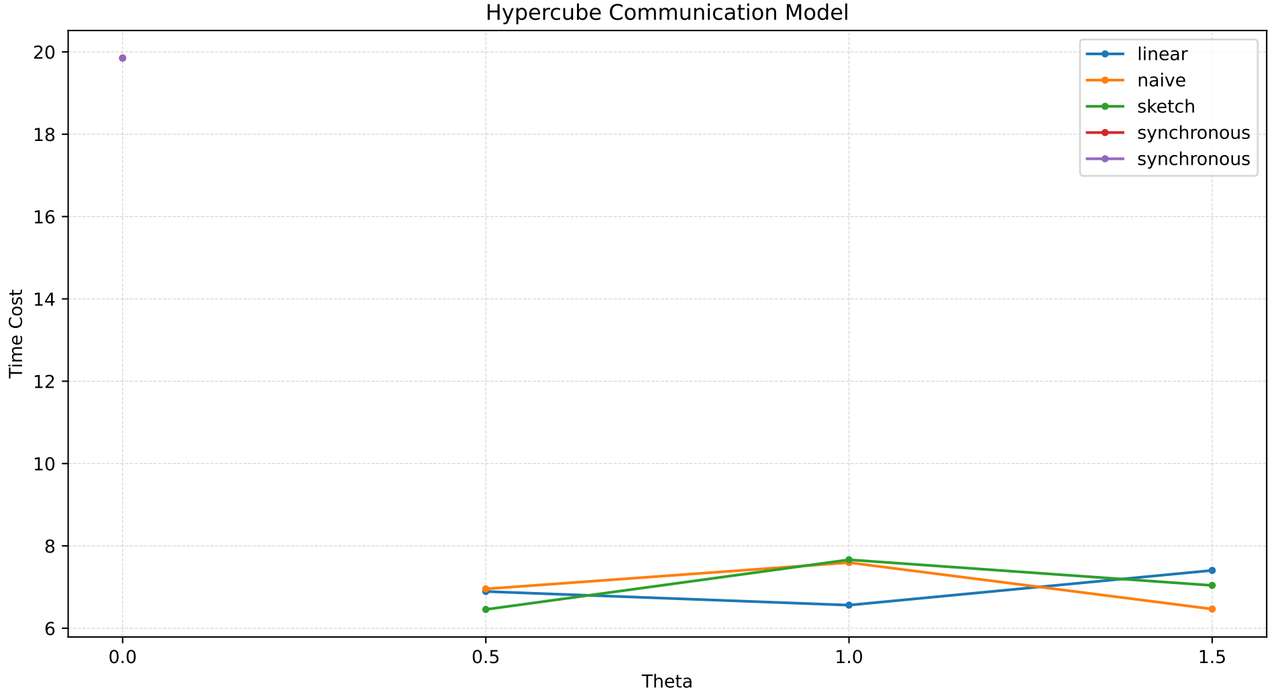
Num Clients : 20 , Batch Size : 256



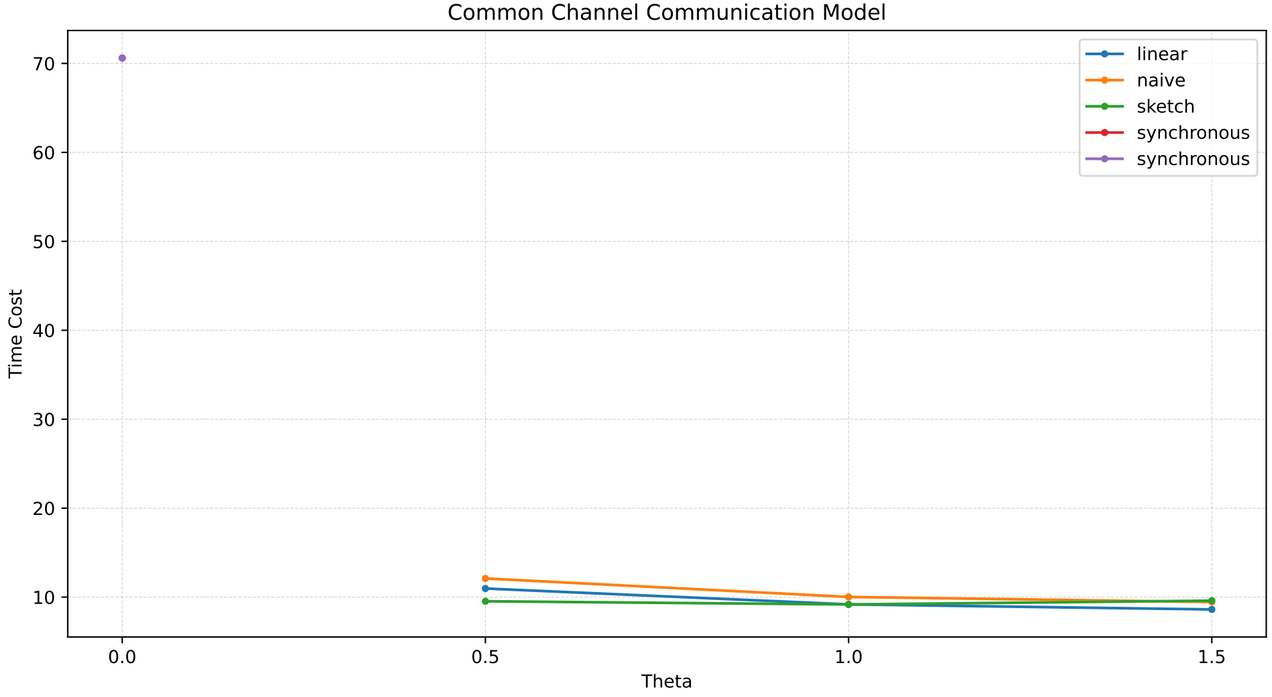


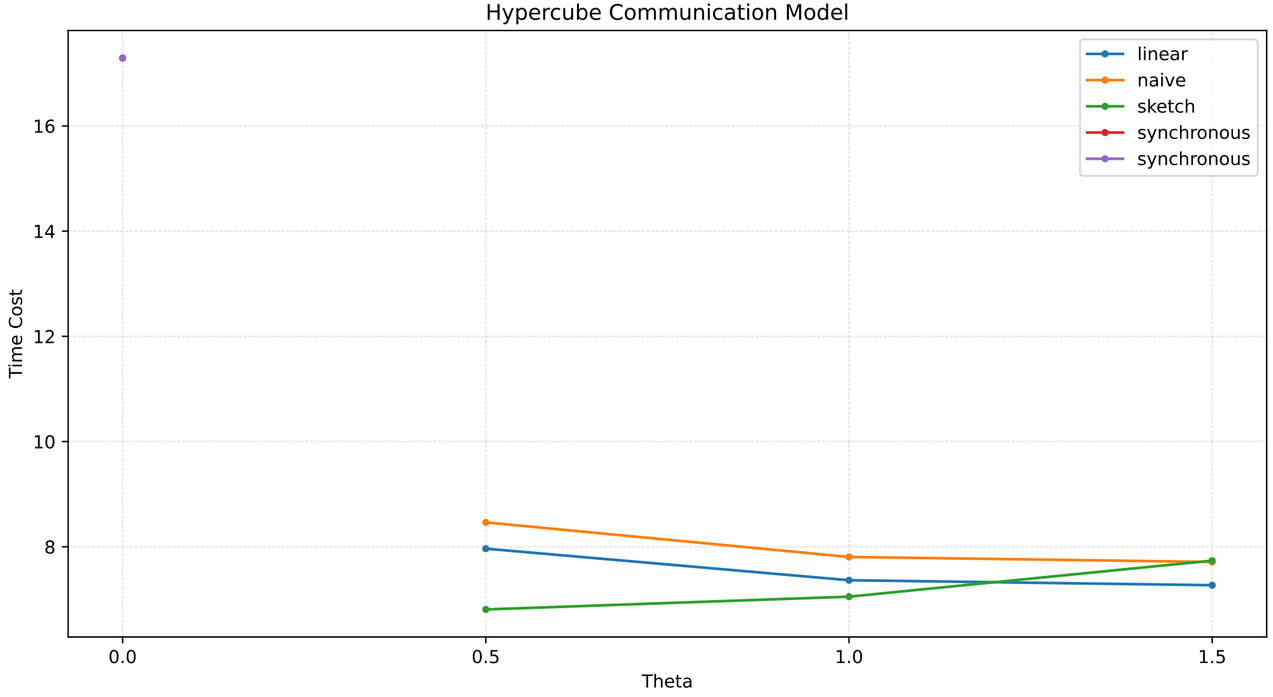
Num Clients : 25 , Batch Size : 32



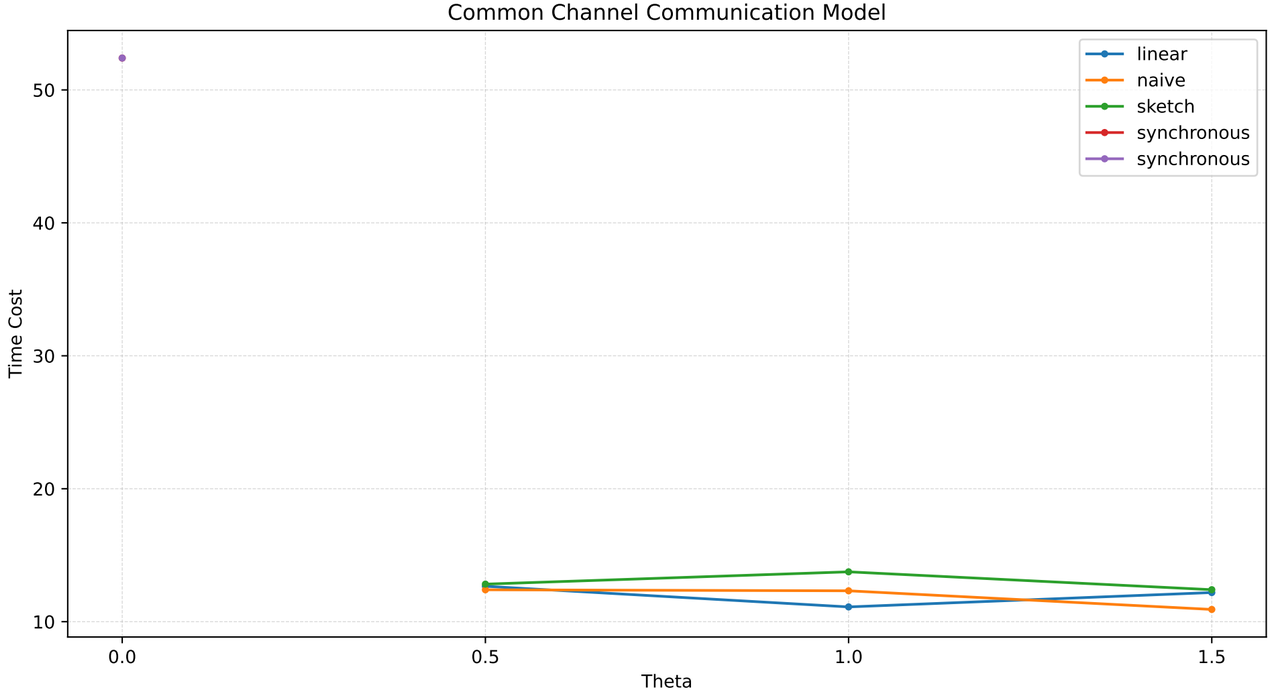


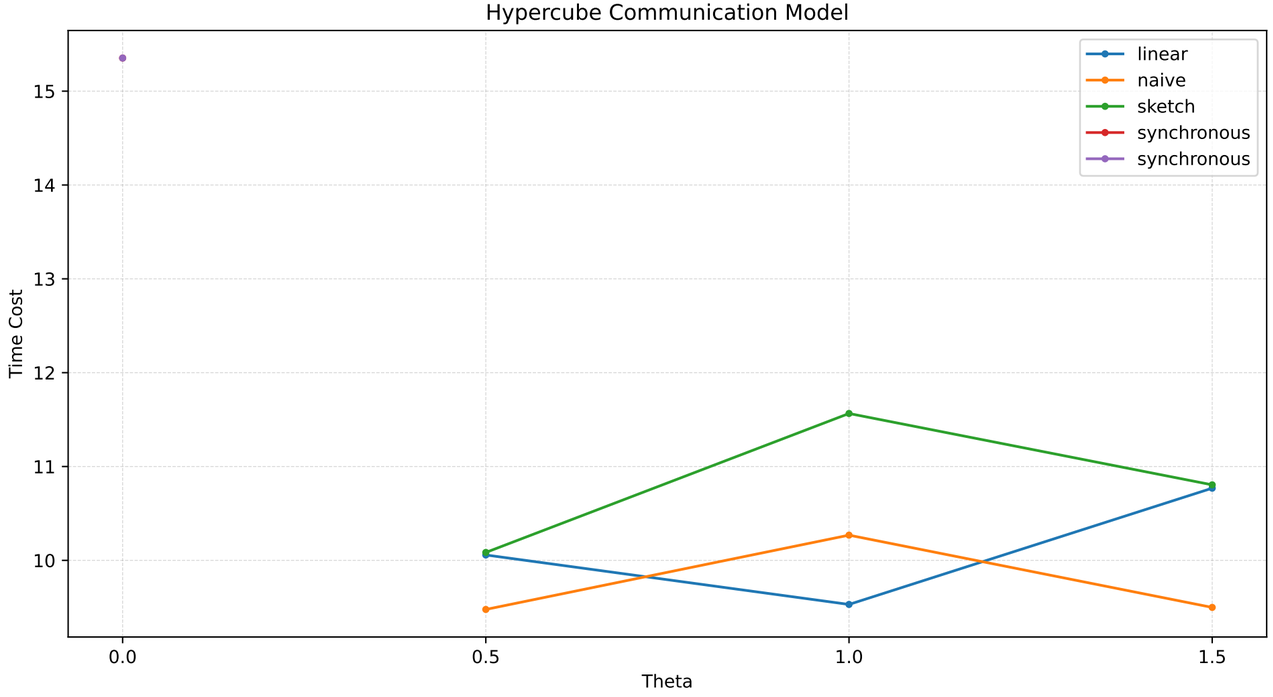
Num Clients : 25 , Batch Size : 64



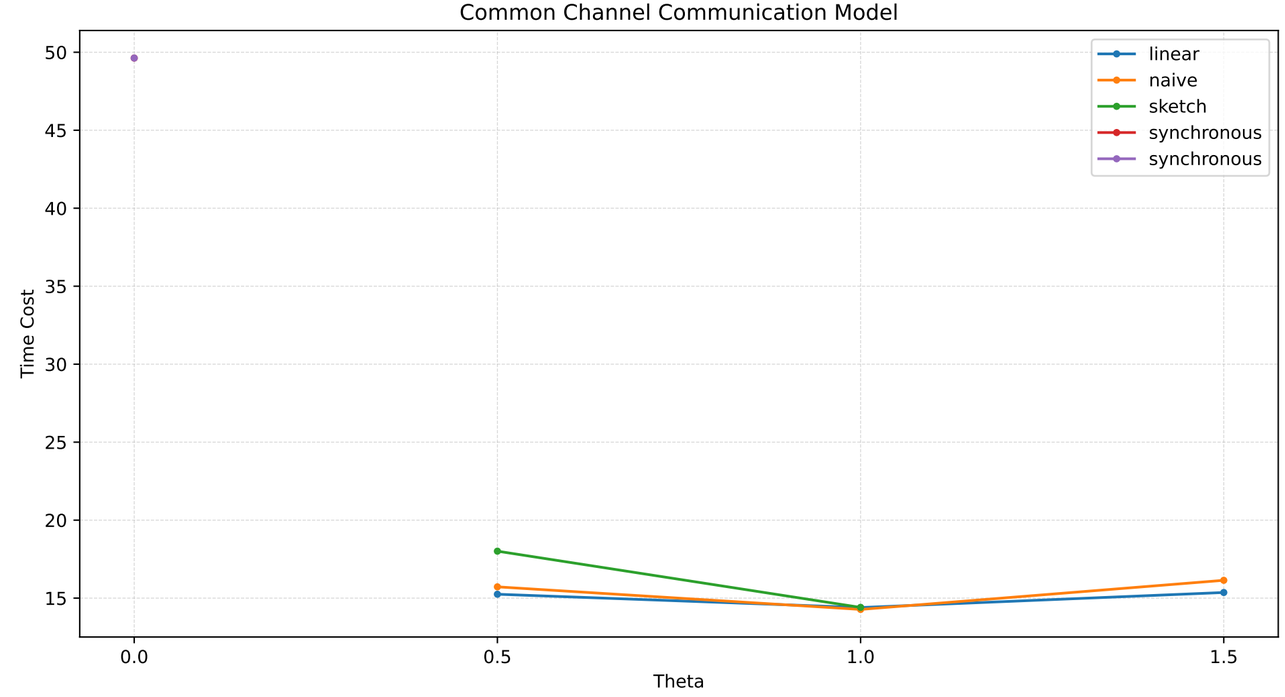


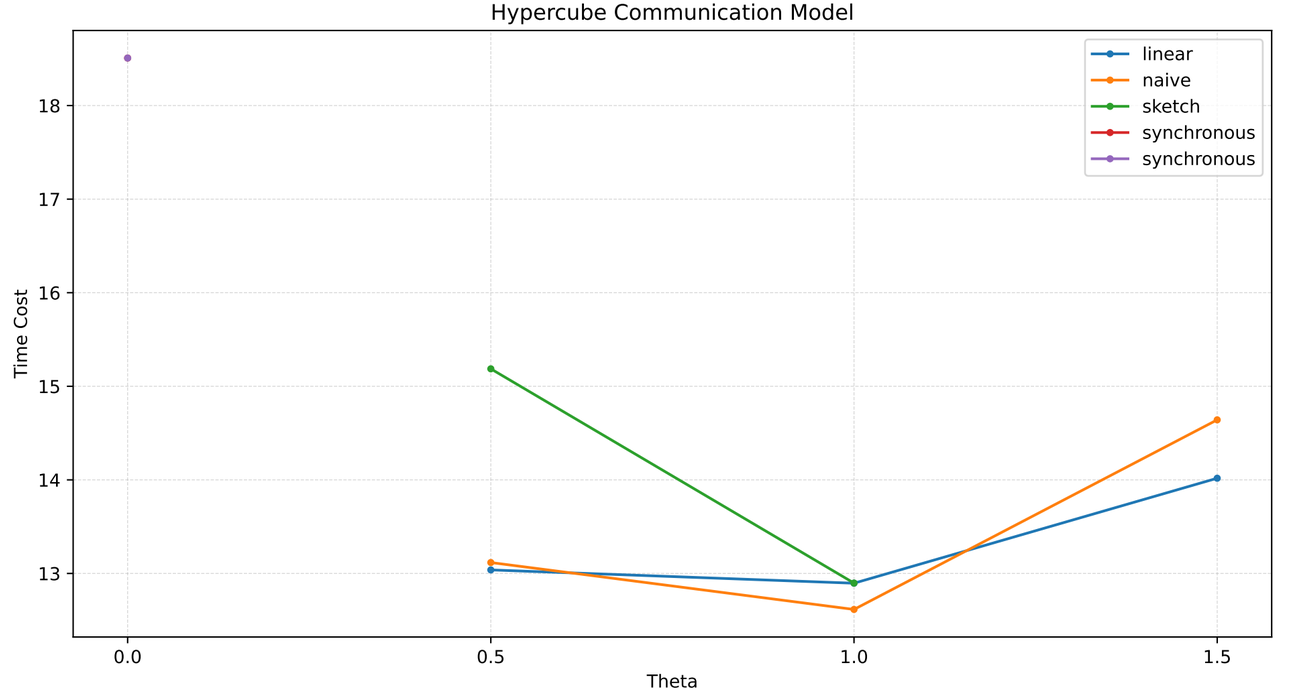
Num Clients : 25 , Batch Size : 128

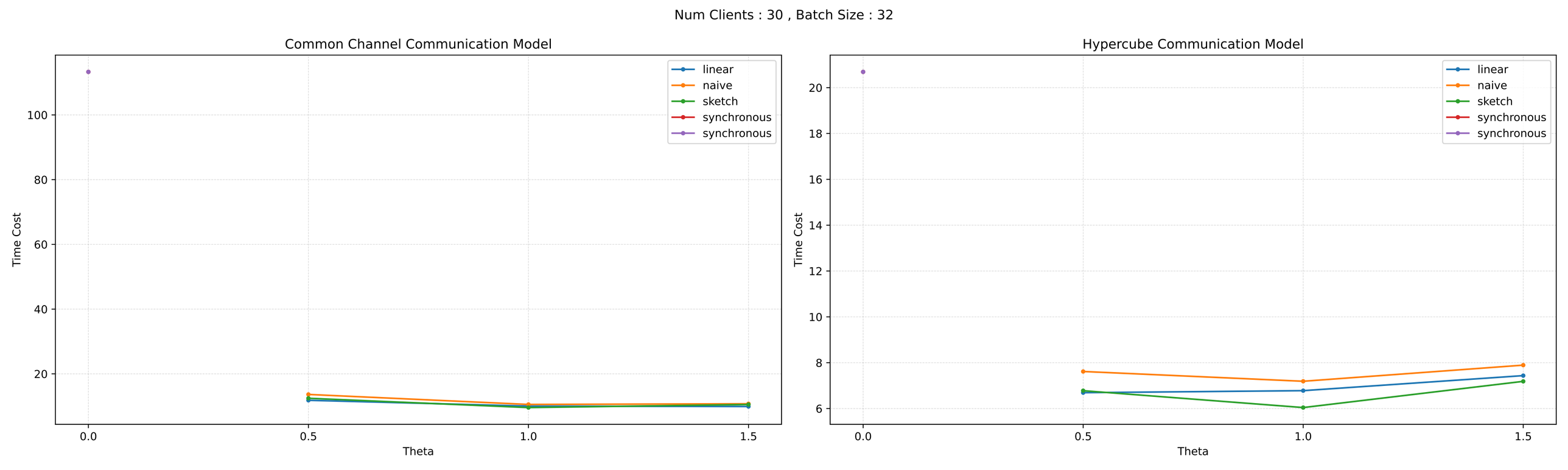




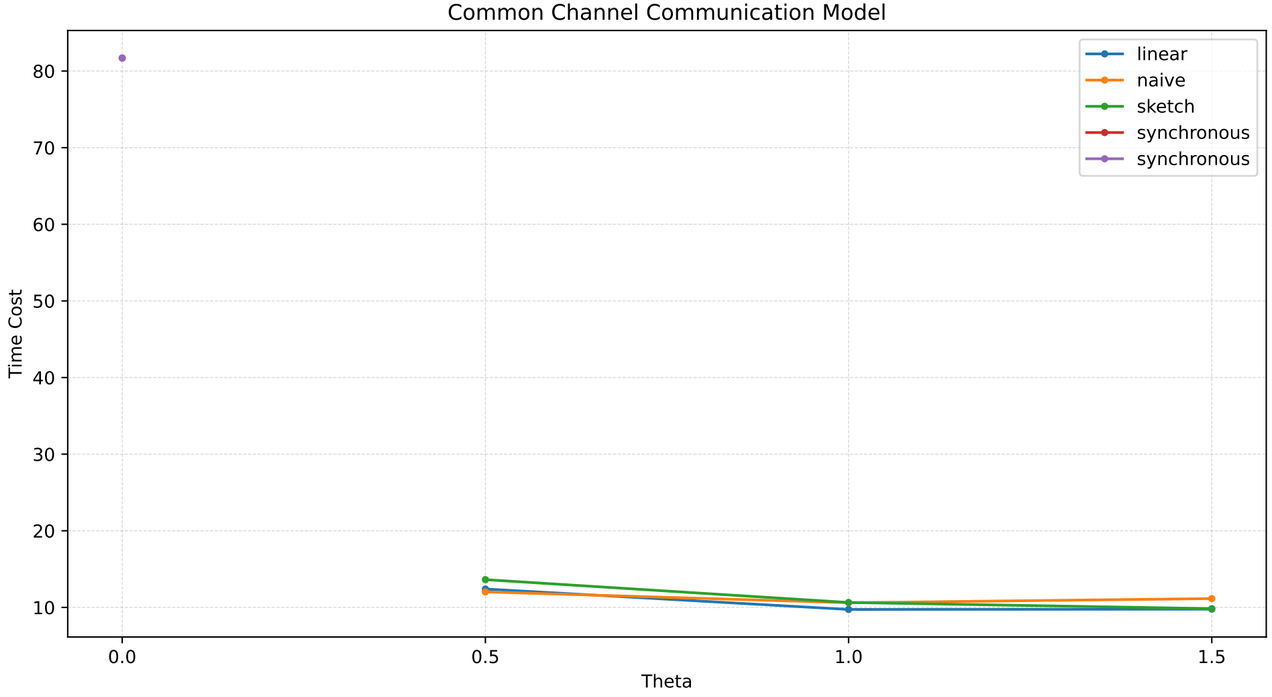
Num Clients : 25 , Batch Size : 256

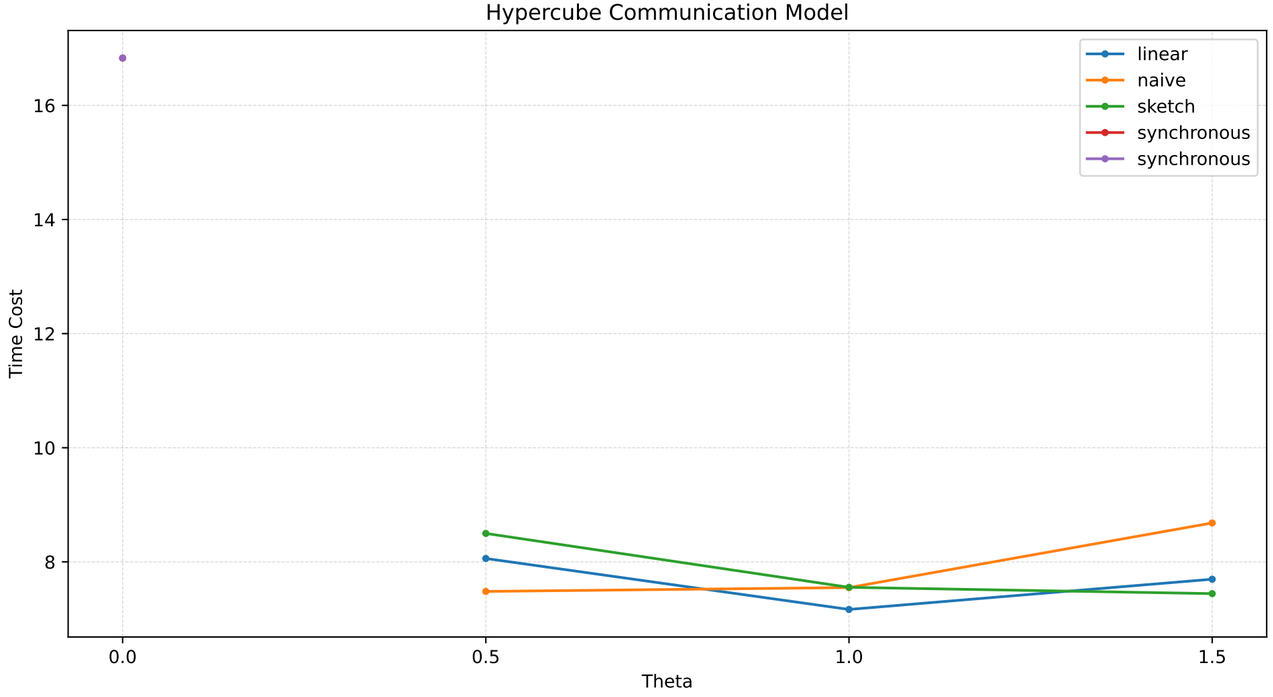




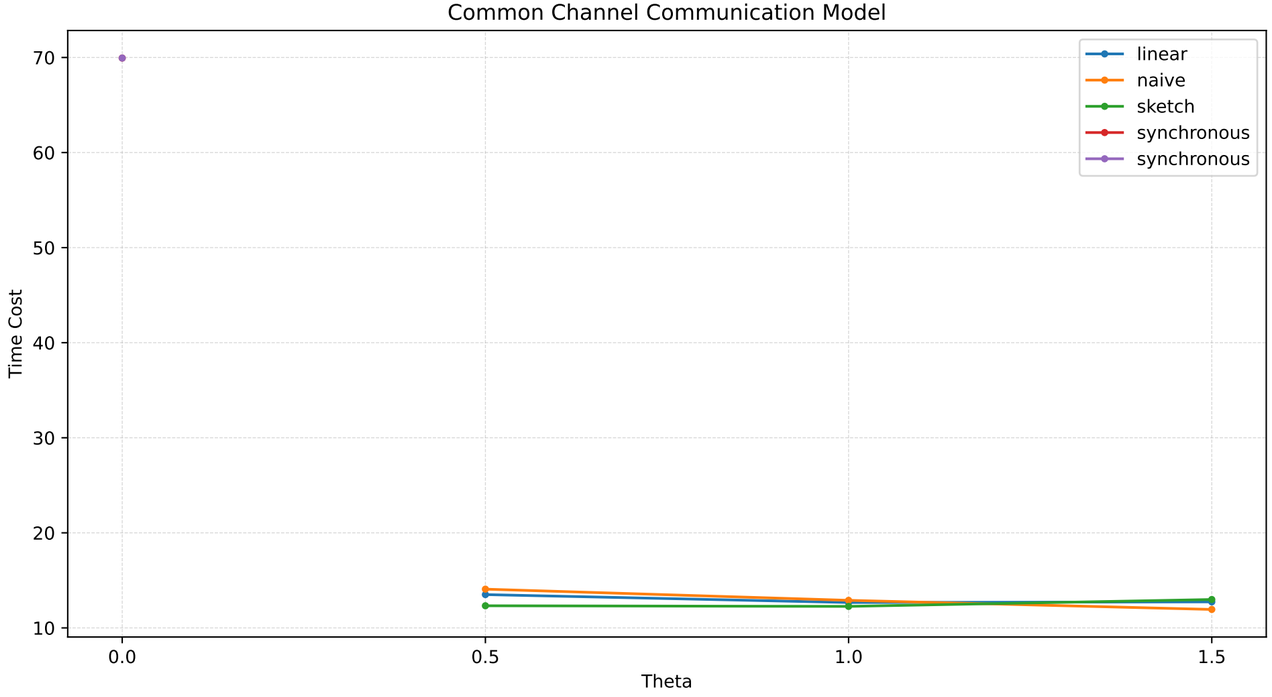

Num Clients : 30 , Batch Size : 32
Common Channel Communication Model
Hypercube Communication Model
Time Cost
Theta
linear
naive
sketch
synchronous
synchronous
0.0
0.5
1.0
1.5
20
40
60
80
100
6
8
10
12
14
16
18
20

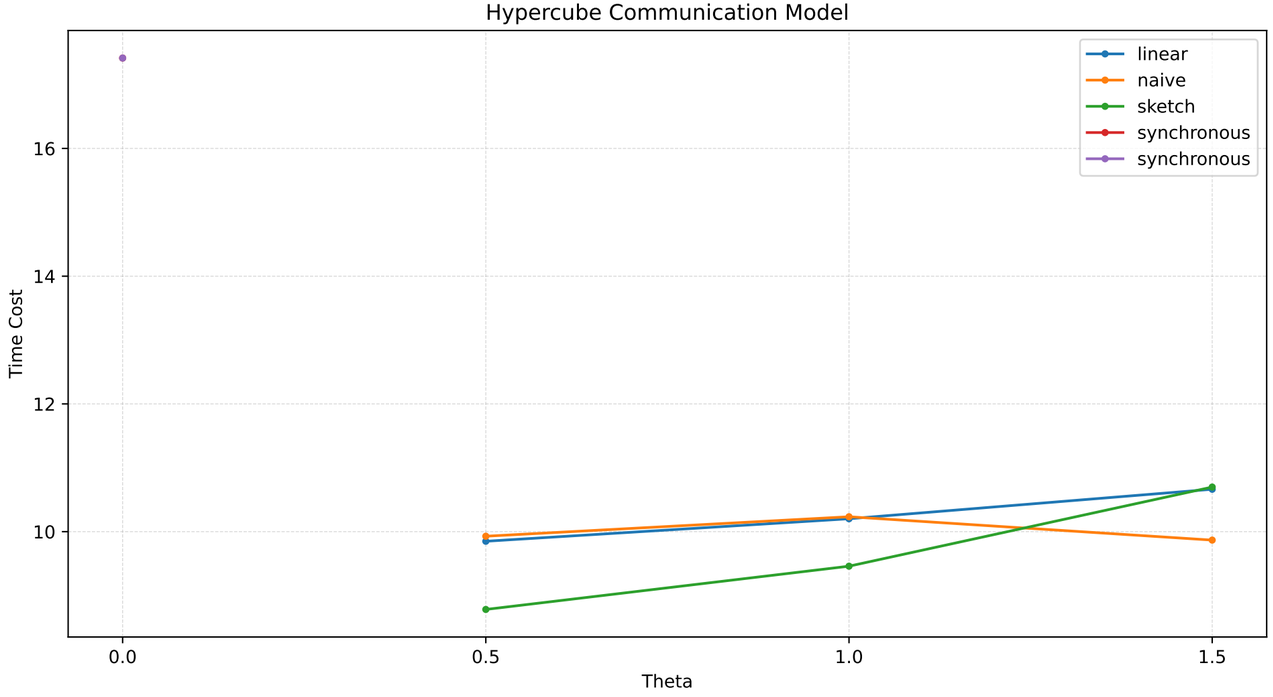
Num Clients : 30 , Batch Size : 64



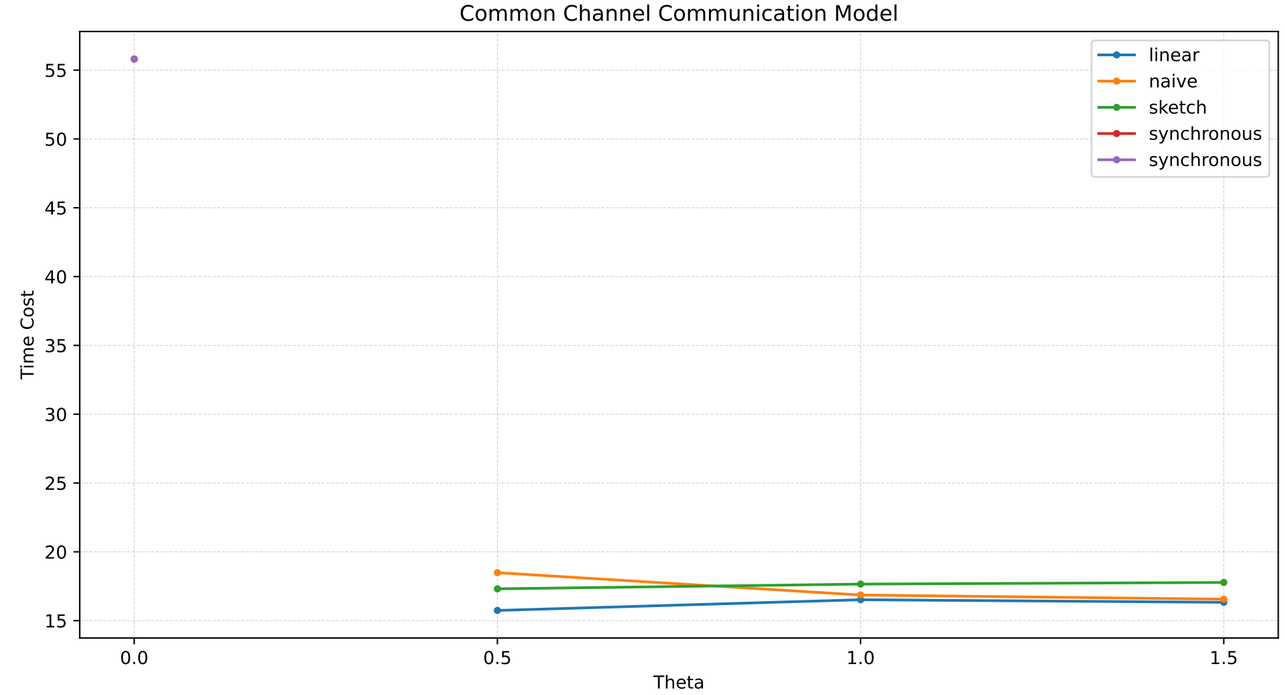


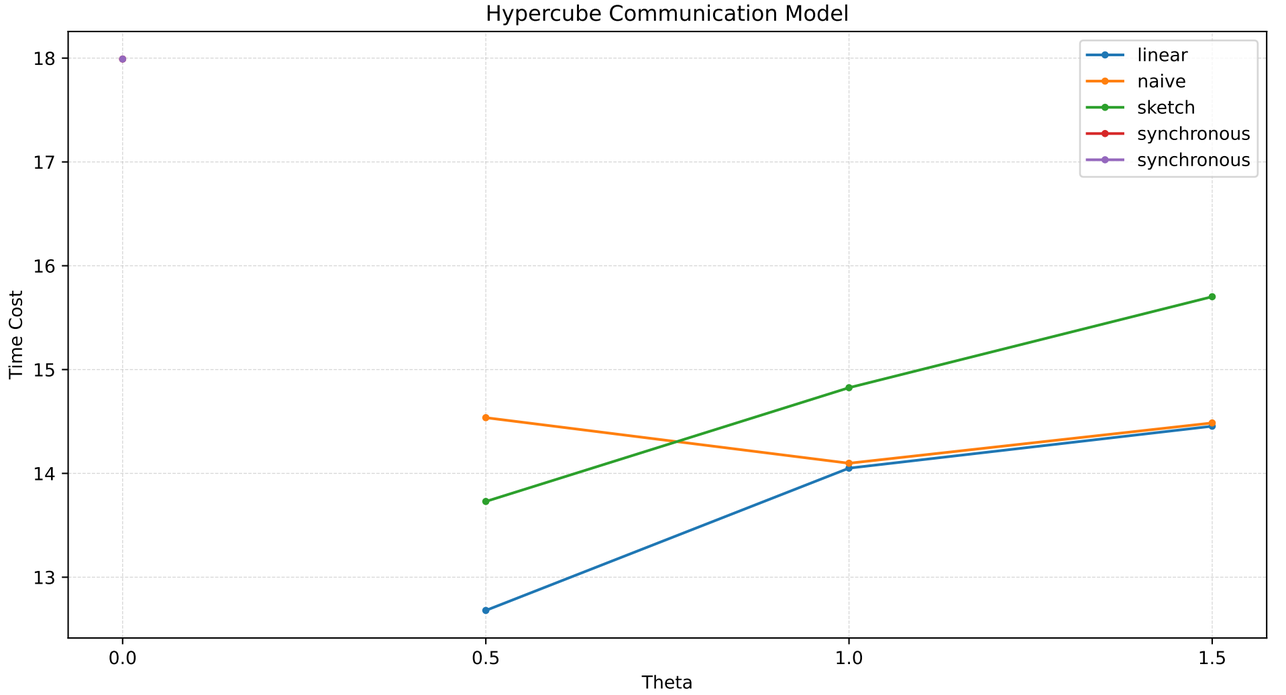
Num Clients : 30 , Batch Size : 128



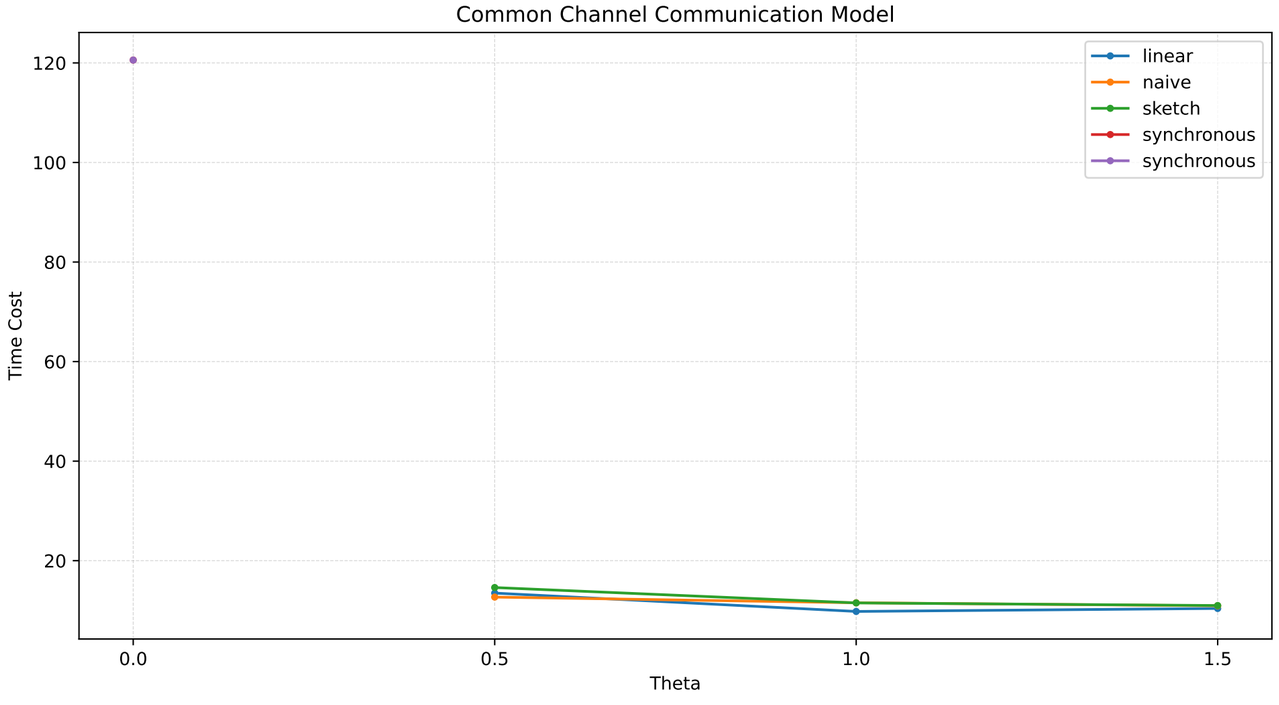


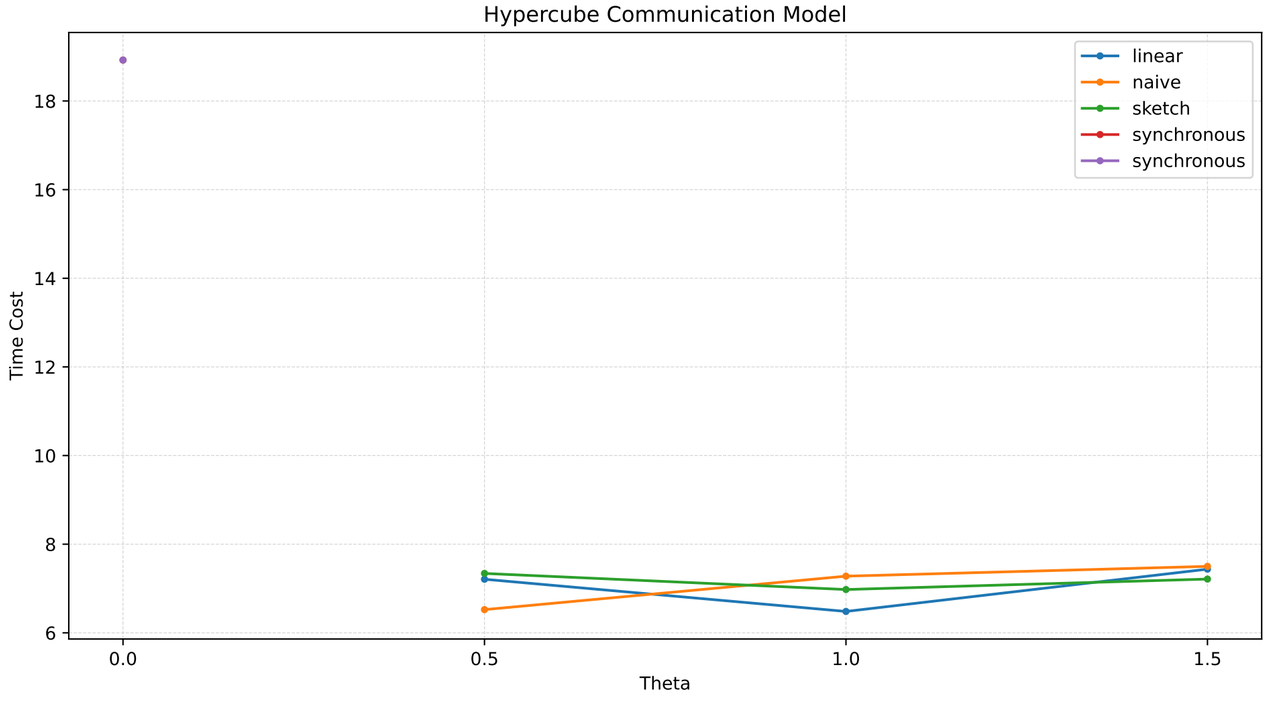
Num Clients : 30 , Batch Size : 256



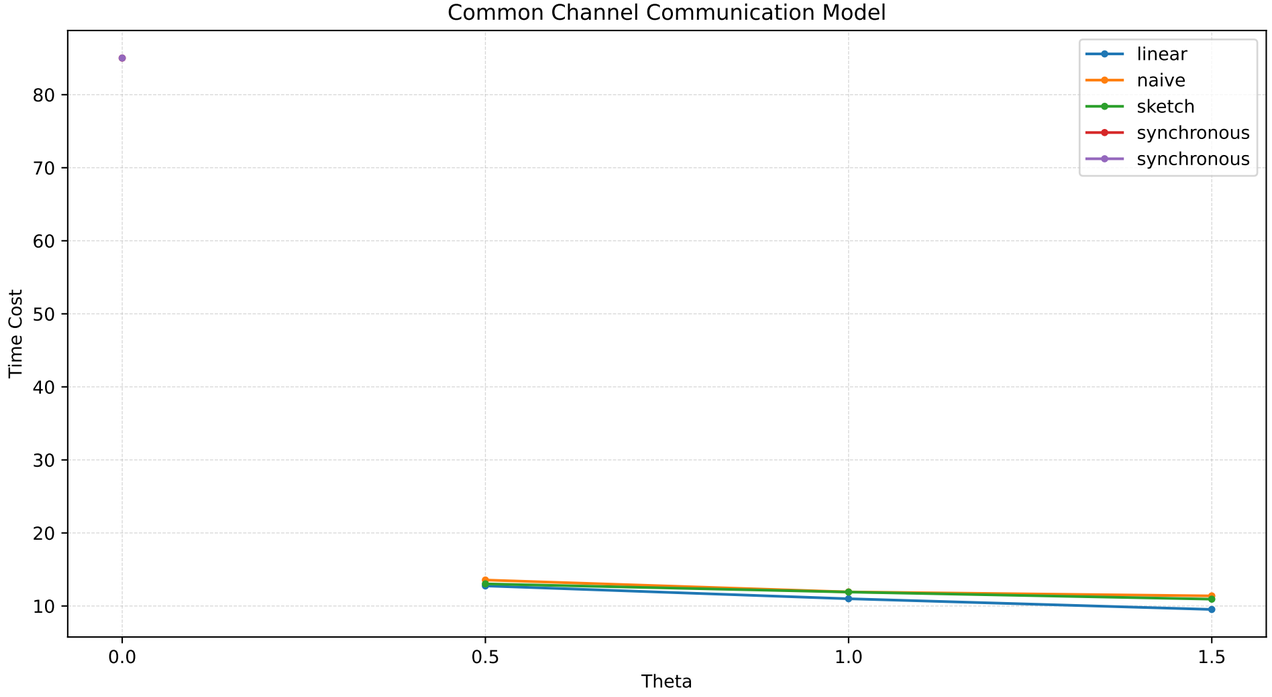


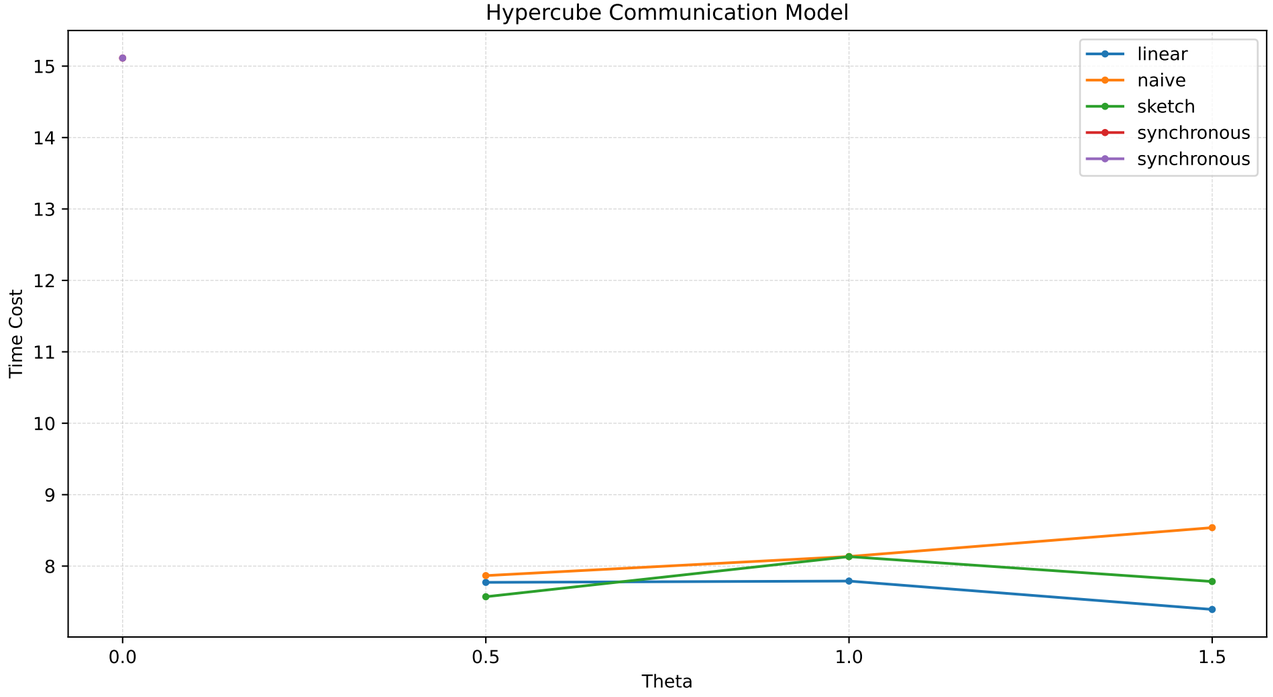
Num Clients : 35 , Batch Size : 32



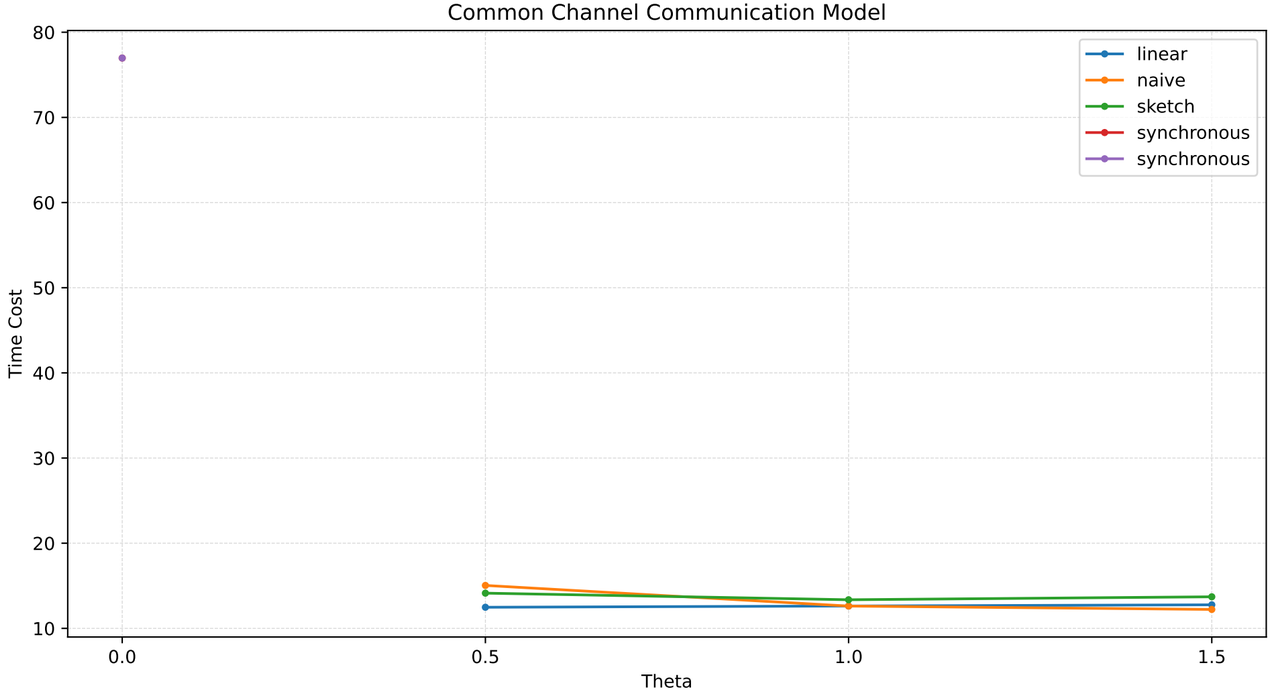


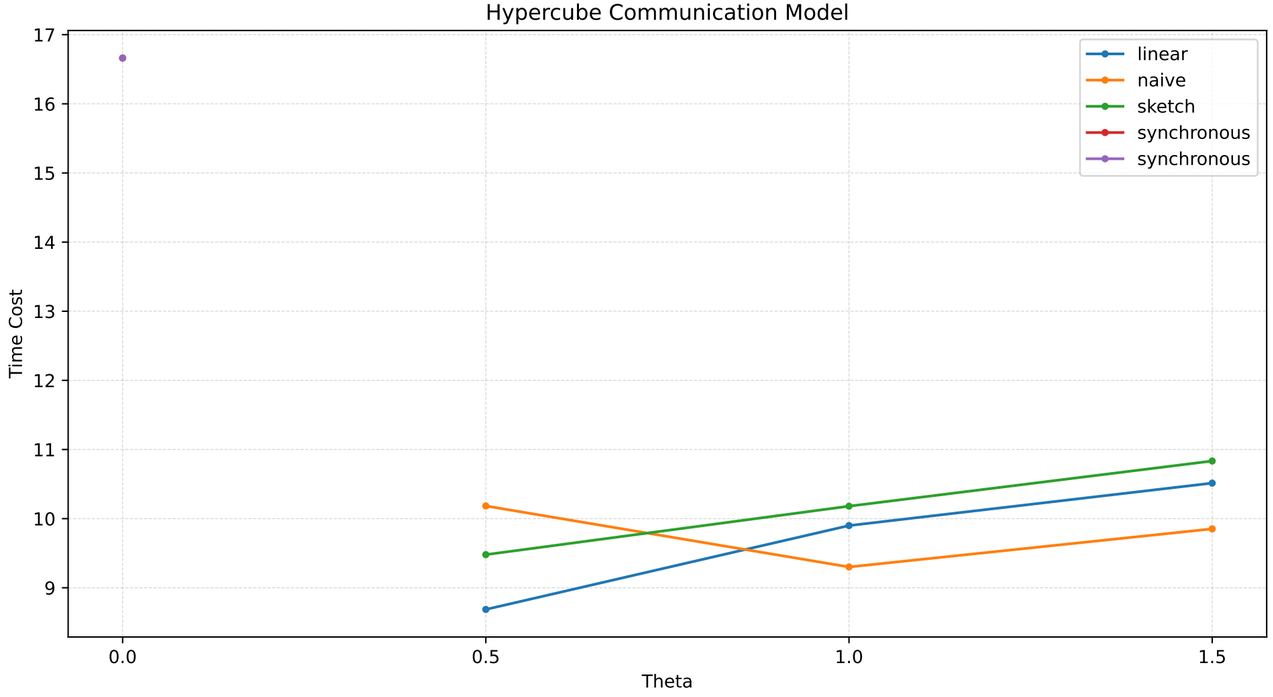
Num Clients : 35 , Batch Size : 64



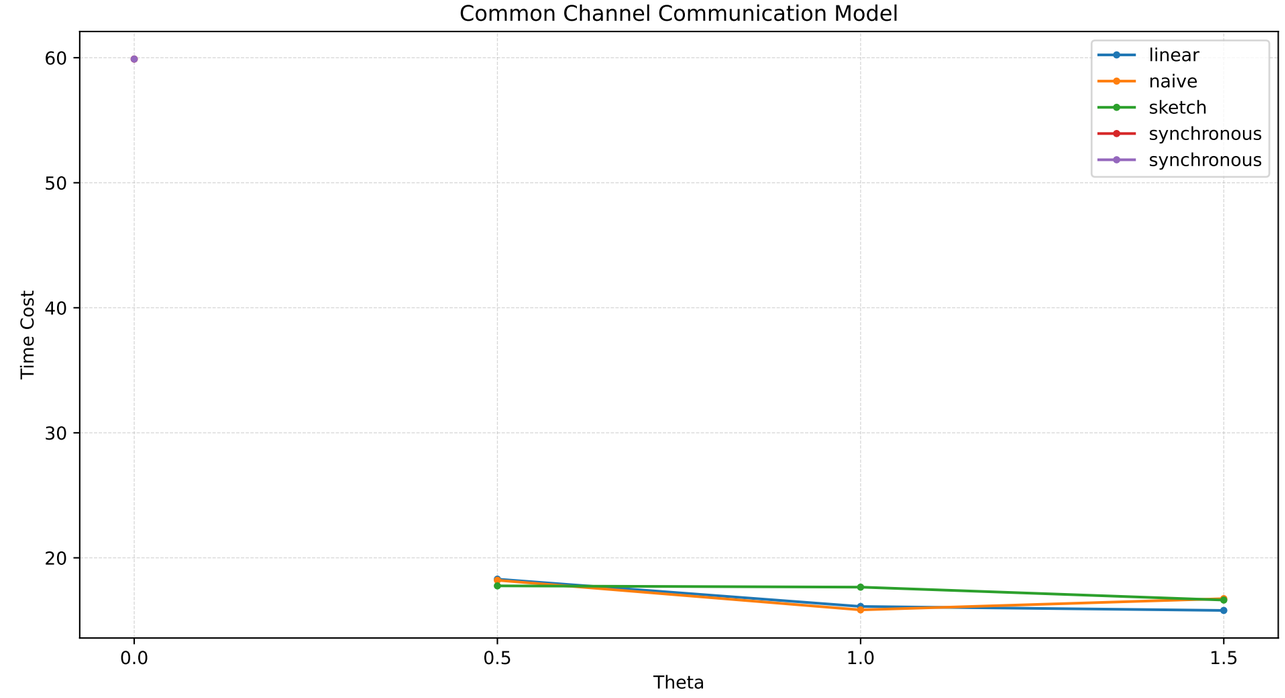


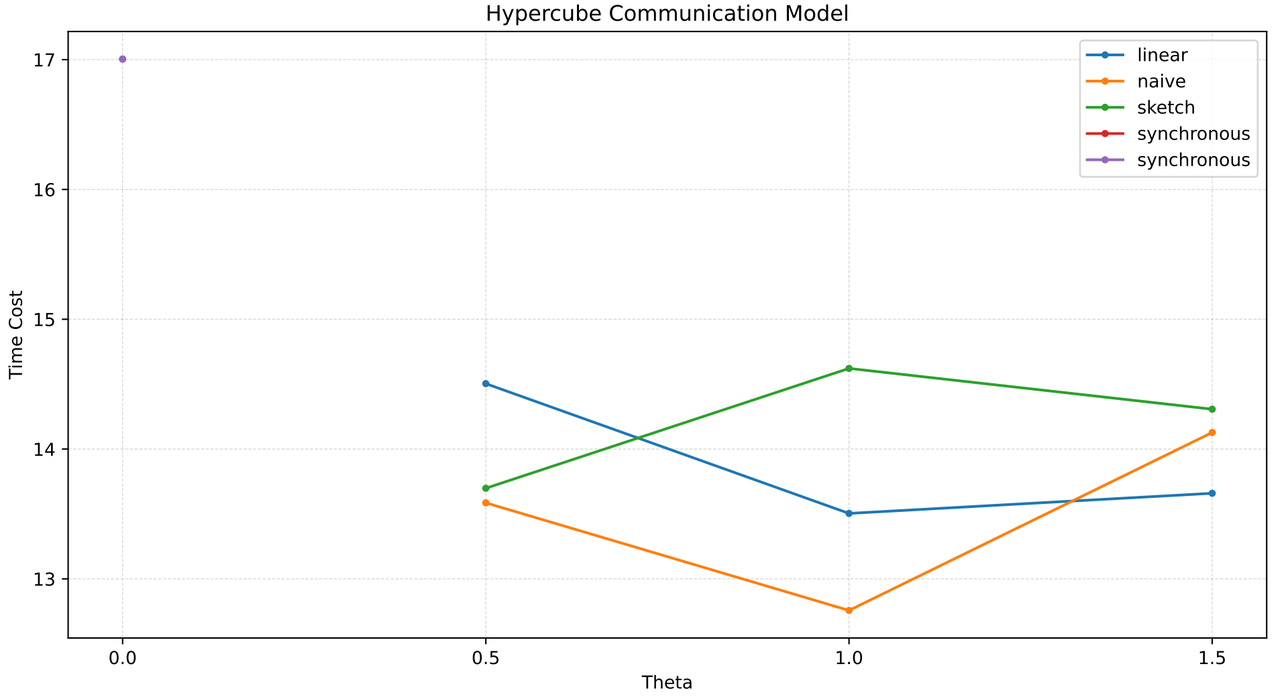
Num Clients : 35 , Batch Size : 128



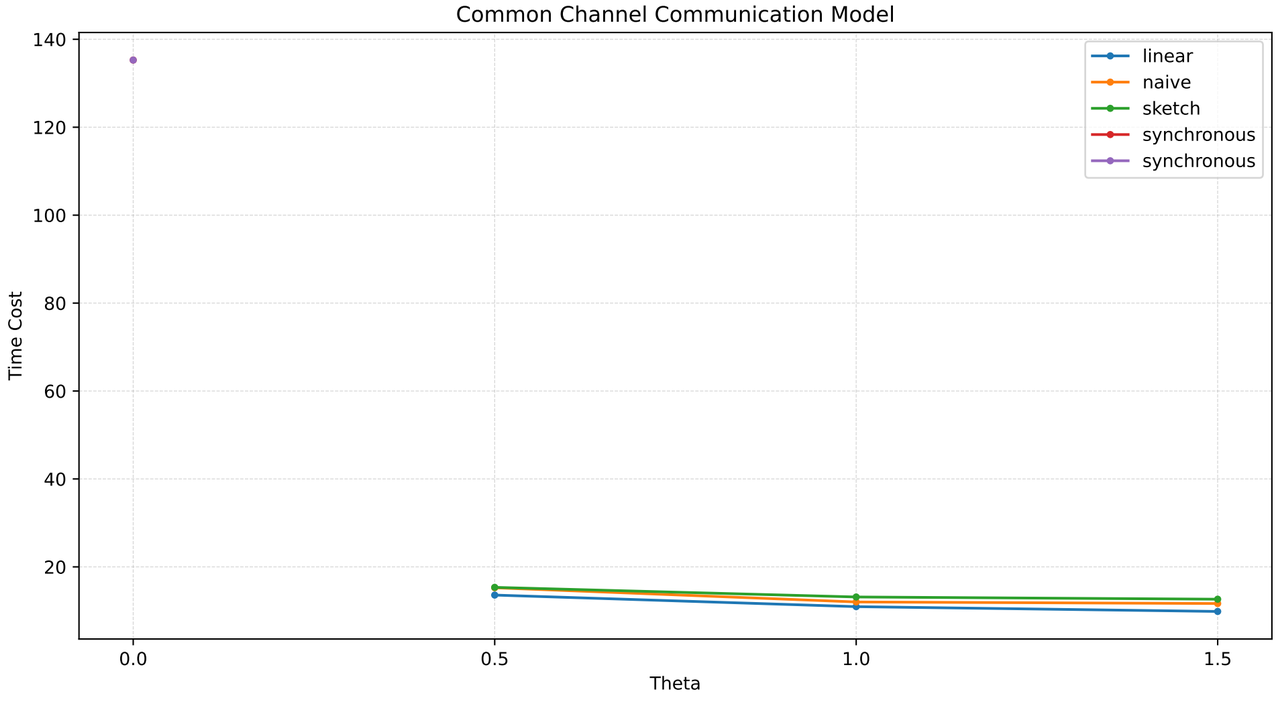


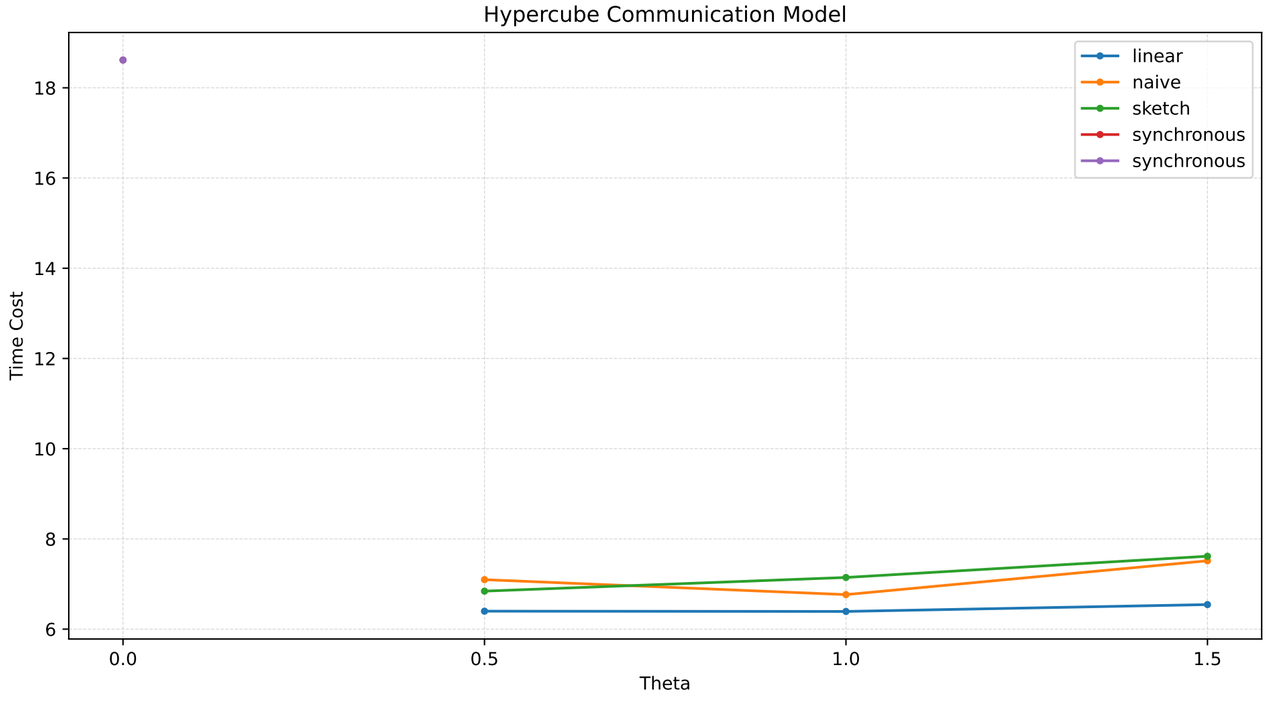
Num Clients : 35 , Batch Size : 256



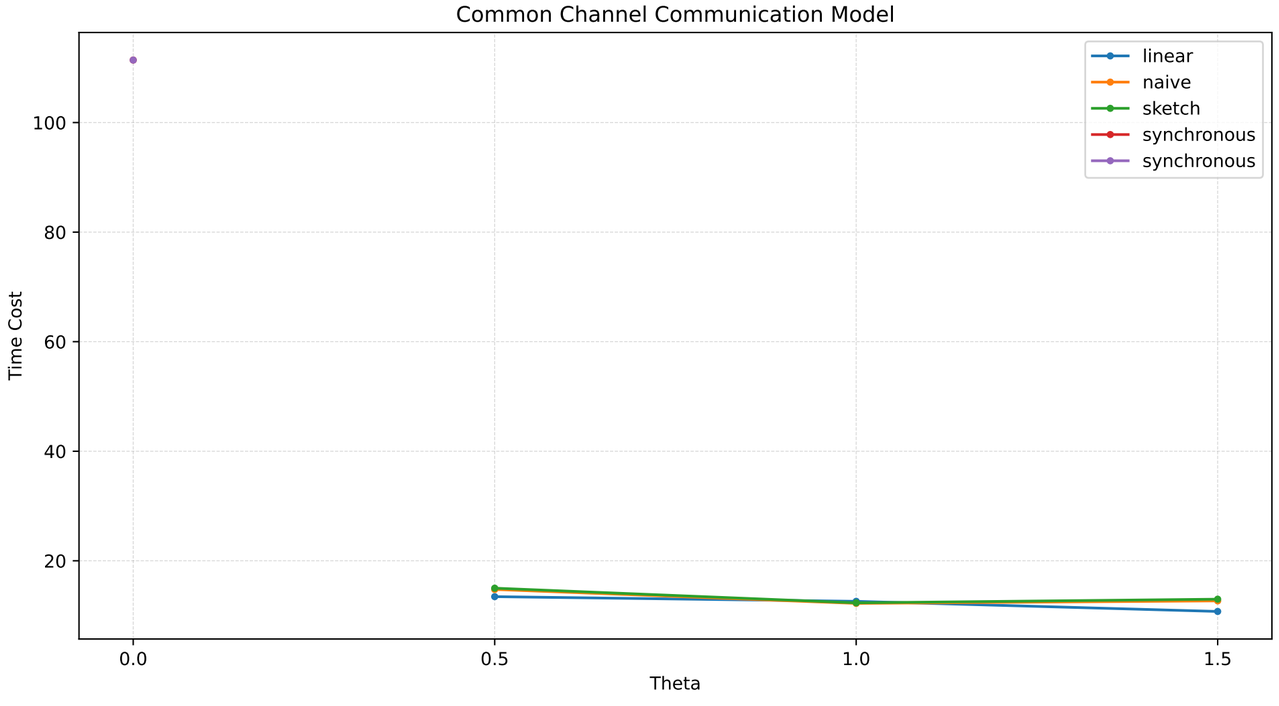


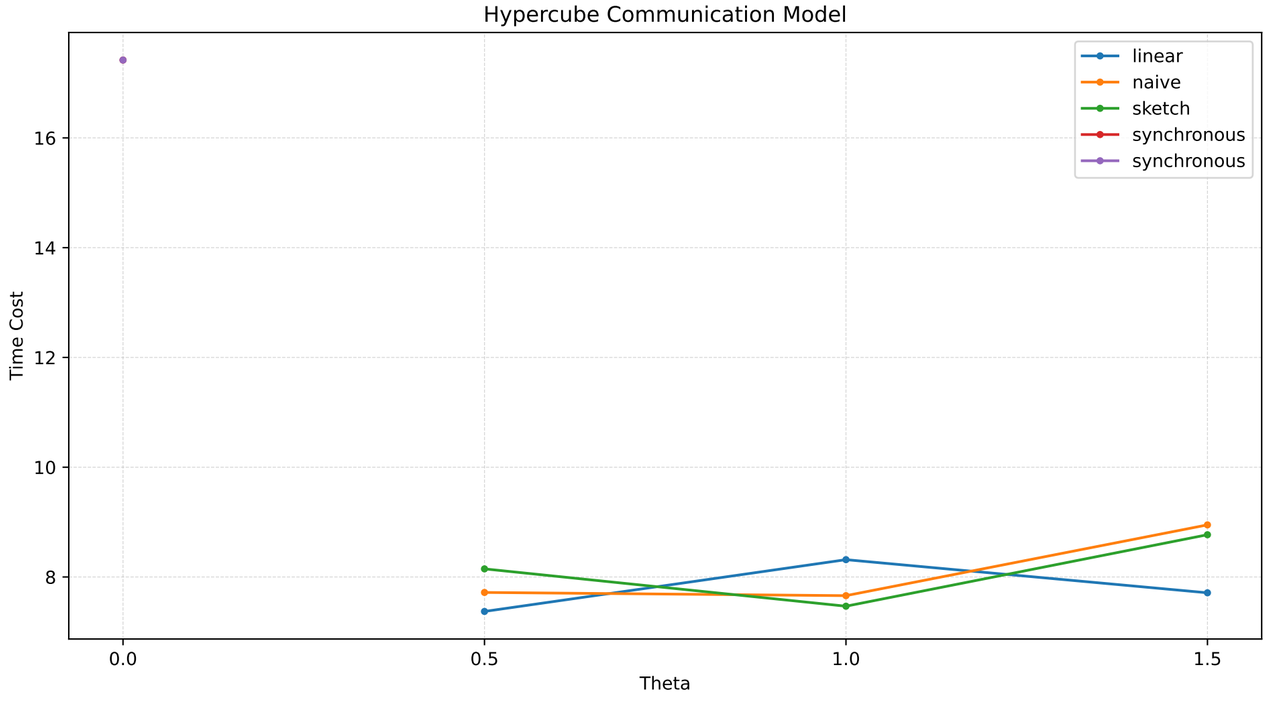
Num Clients : 40 , Batch Size : 32



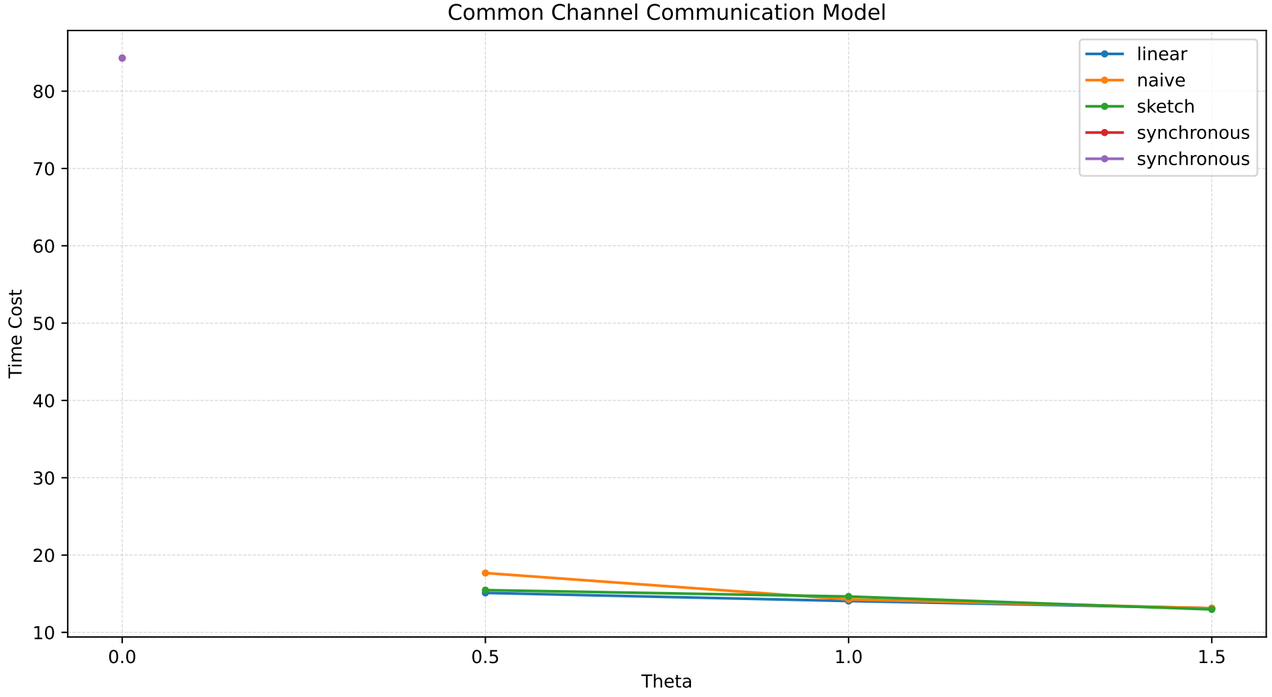


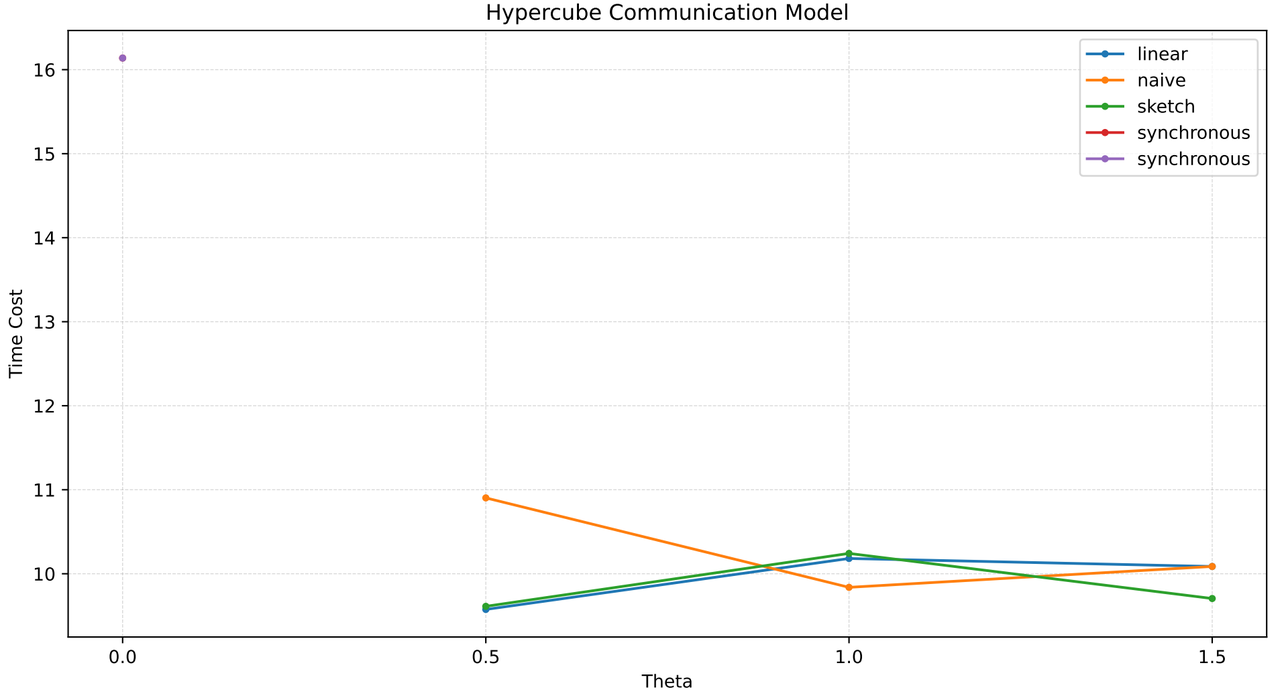
Num Clients : 40 , Batch Size : 64



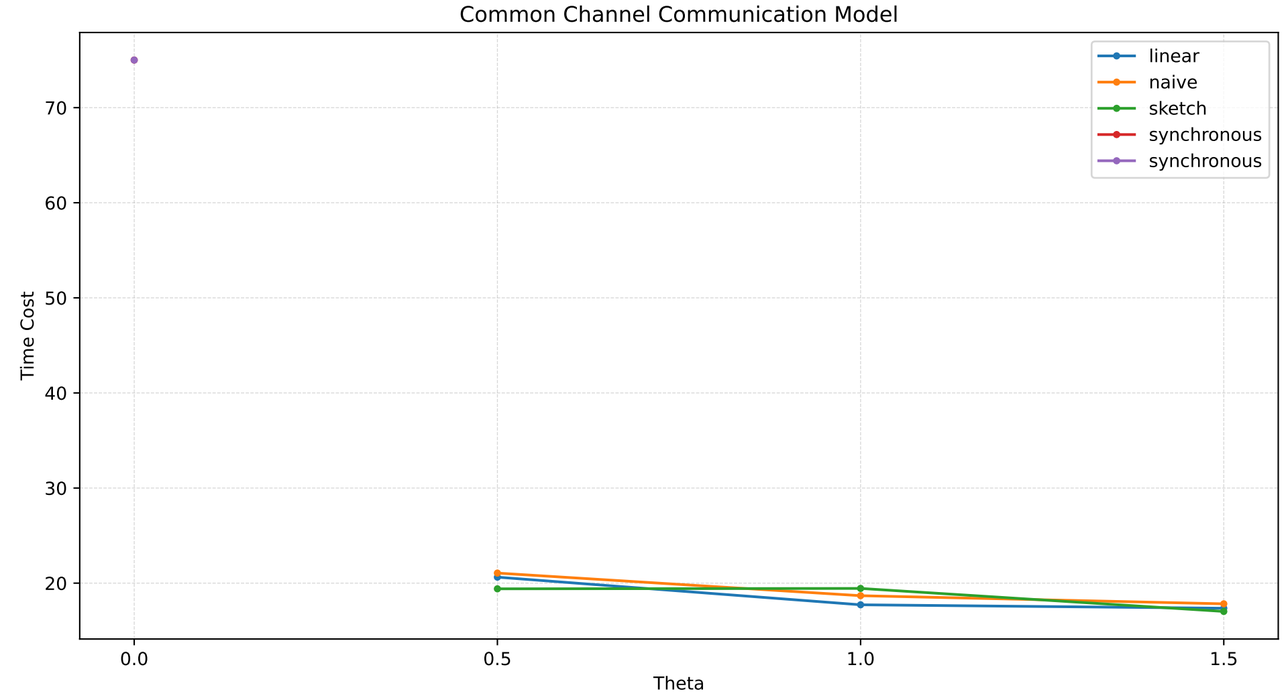


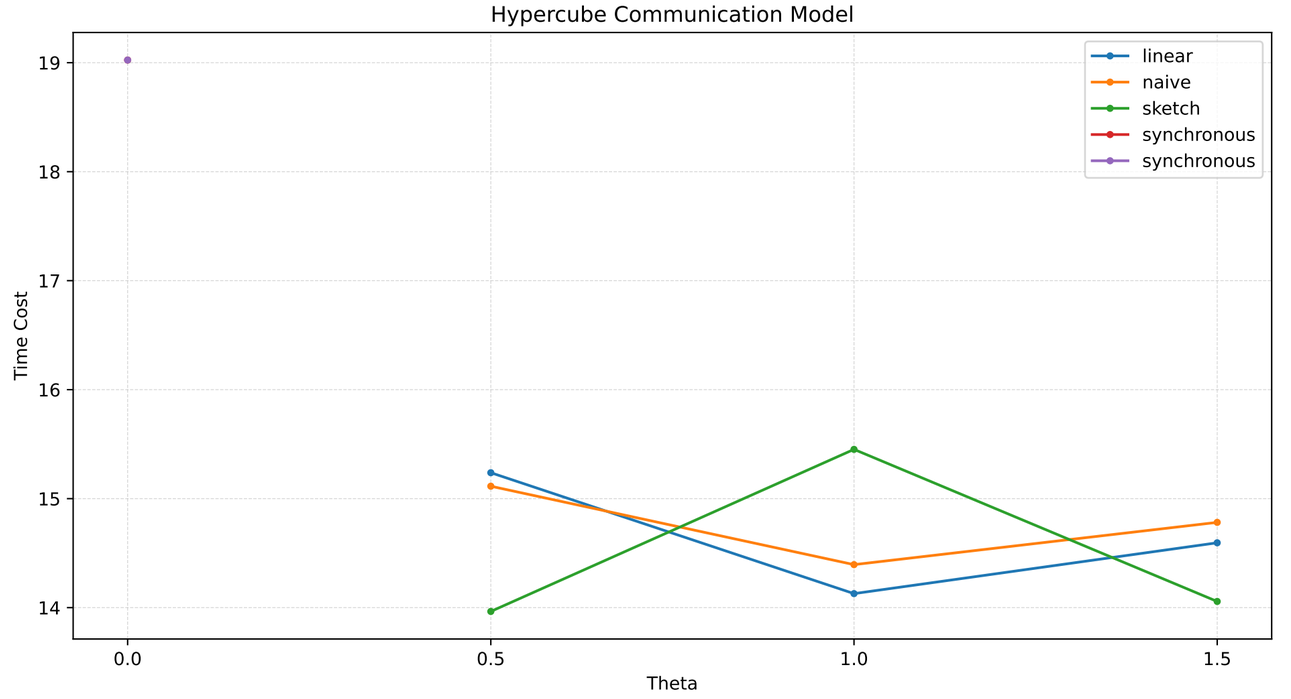
Num Clients : 40 , Batch Size : 128



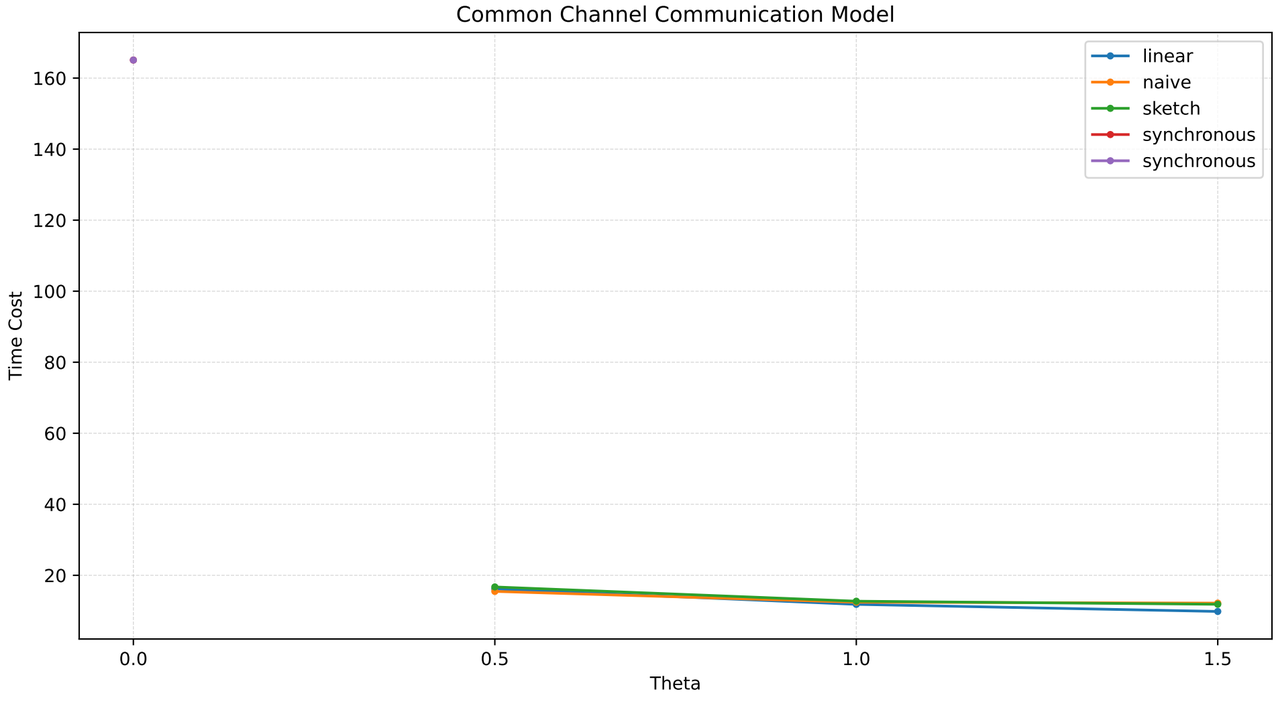


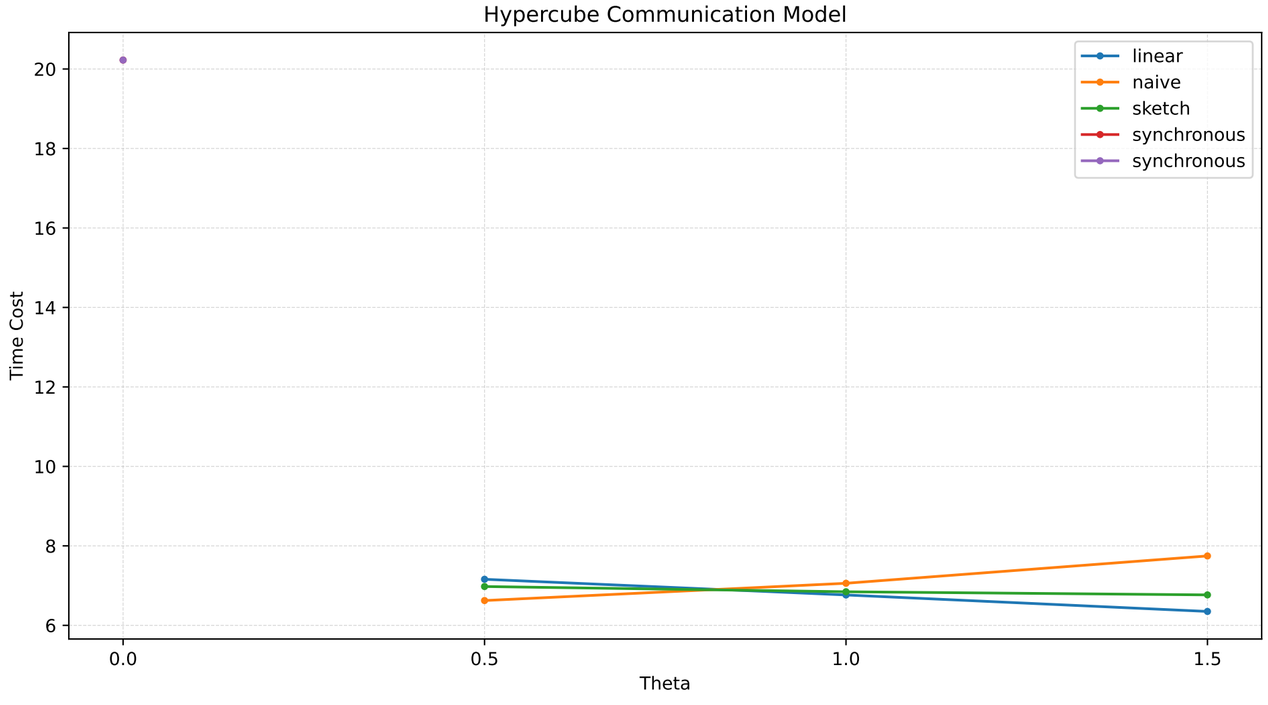
Num Clients : 40 , Batch Size : 256



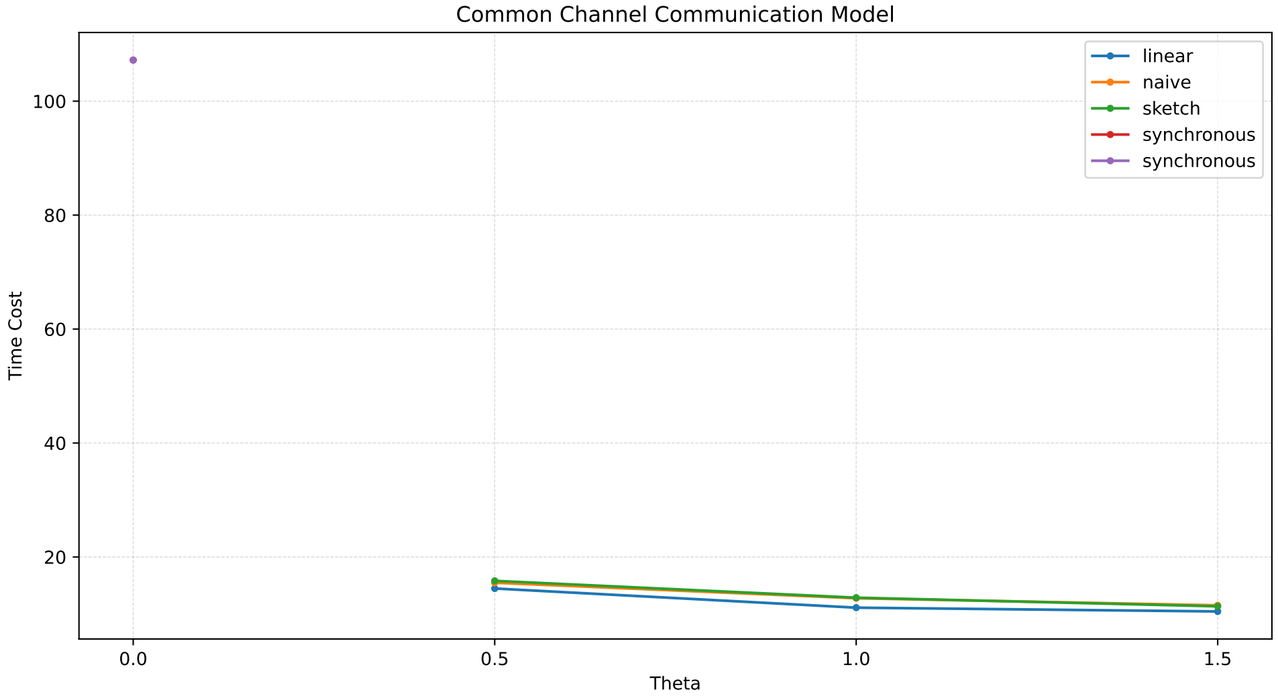


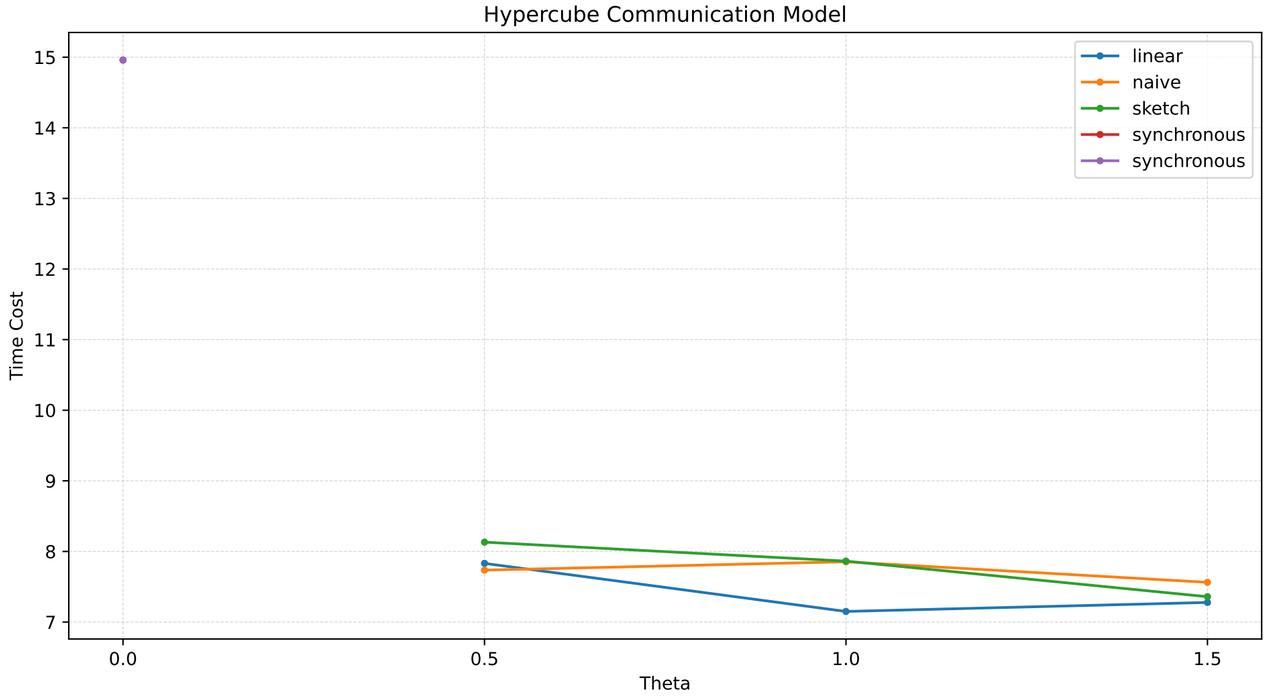
Num Clients : 45 , Batch Size : 32



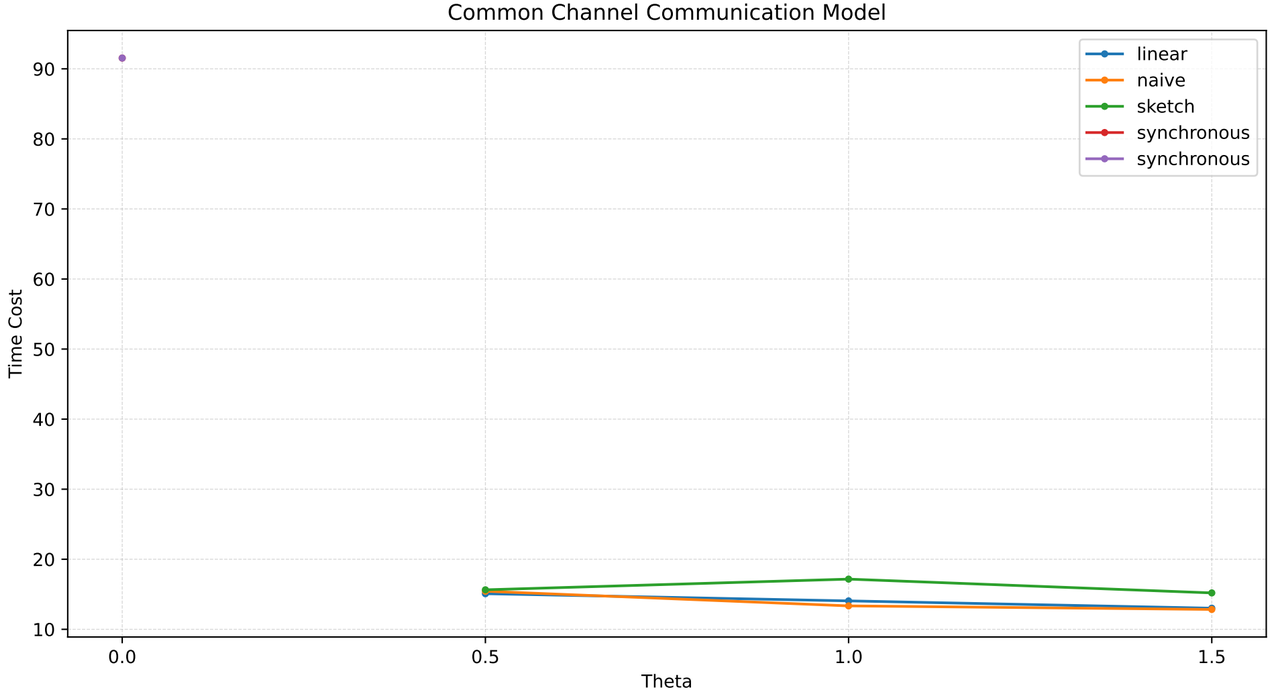


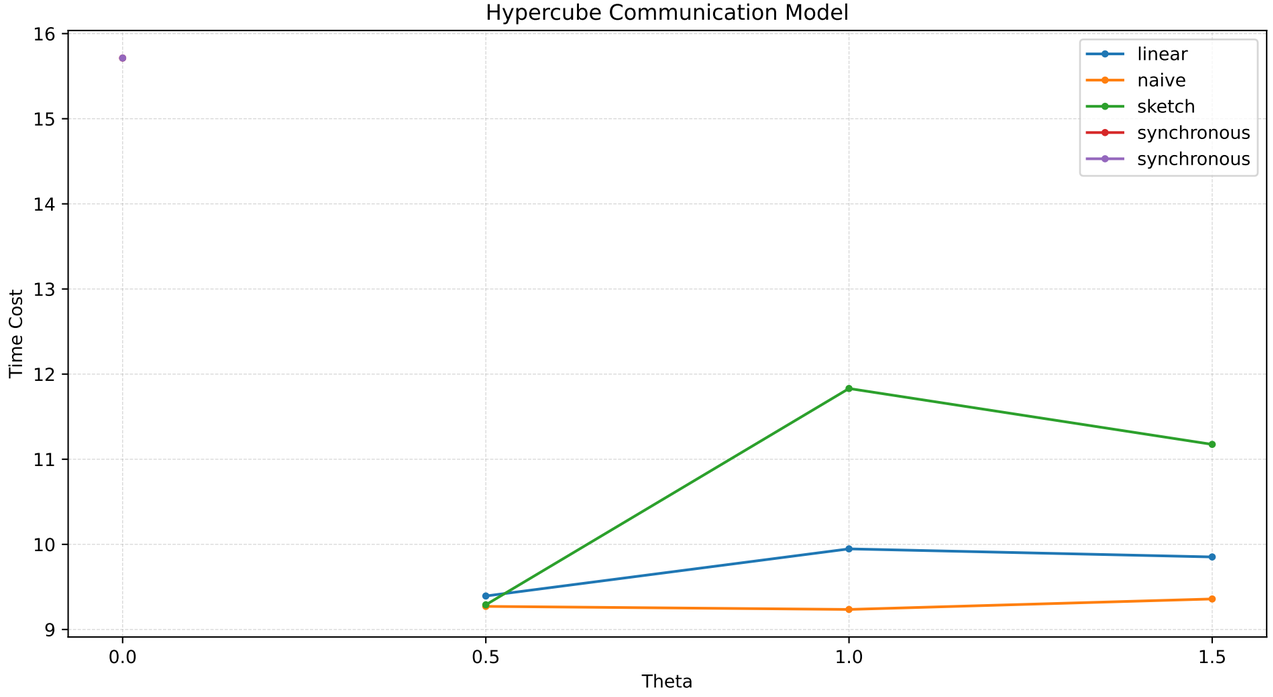
Num Clients : 45 , Batch Size : 64



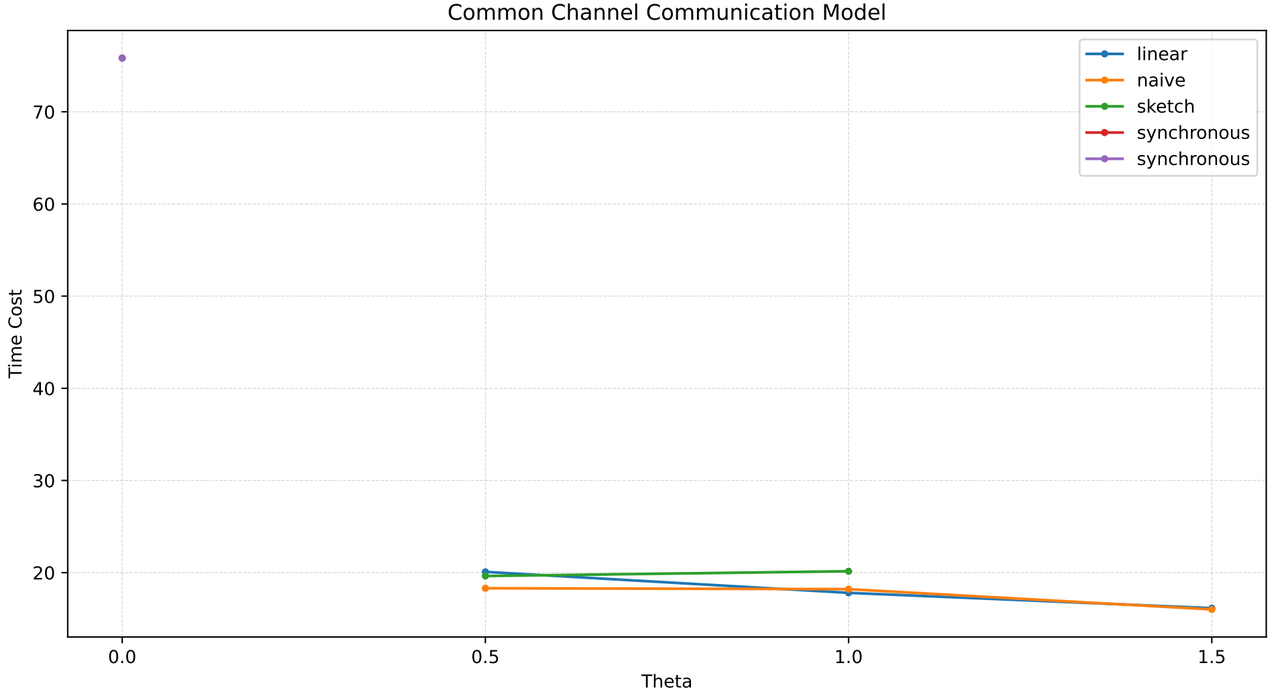


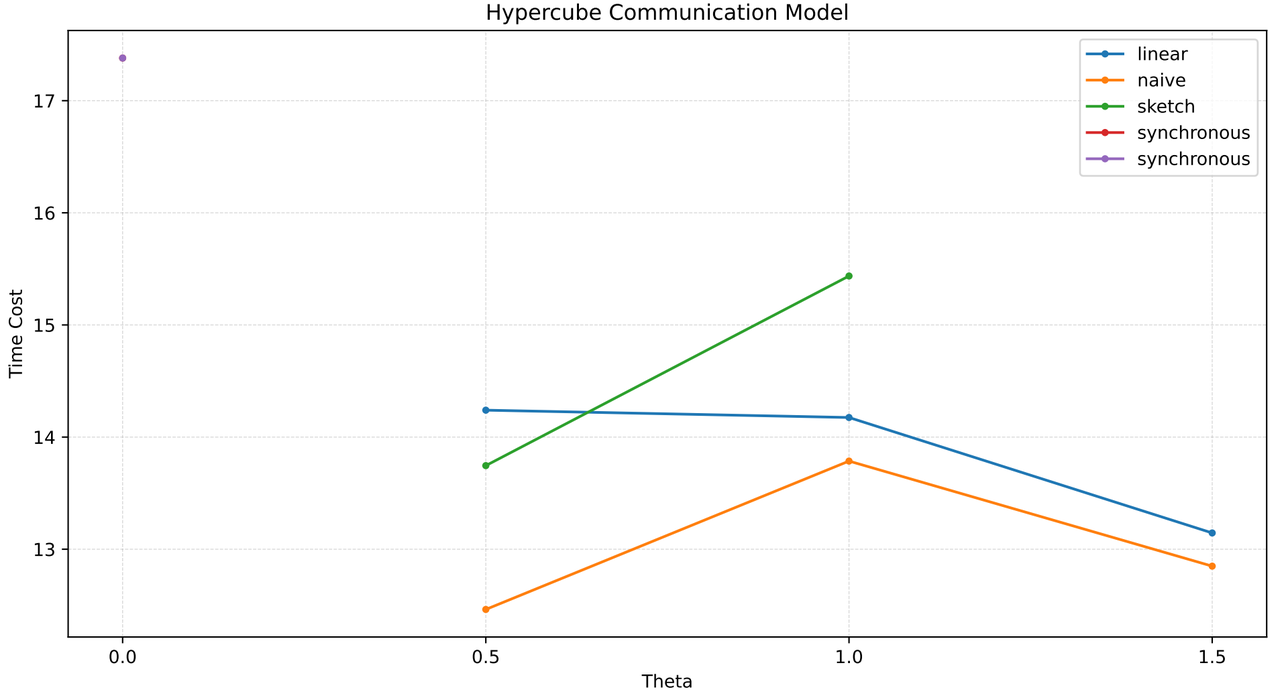
Num Clients : 45 , Batch Size : 128



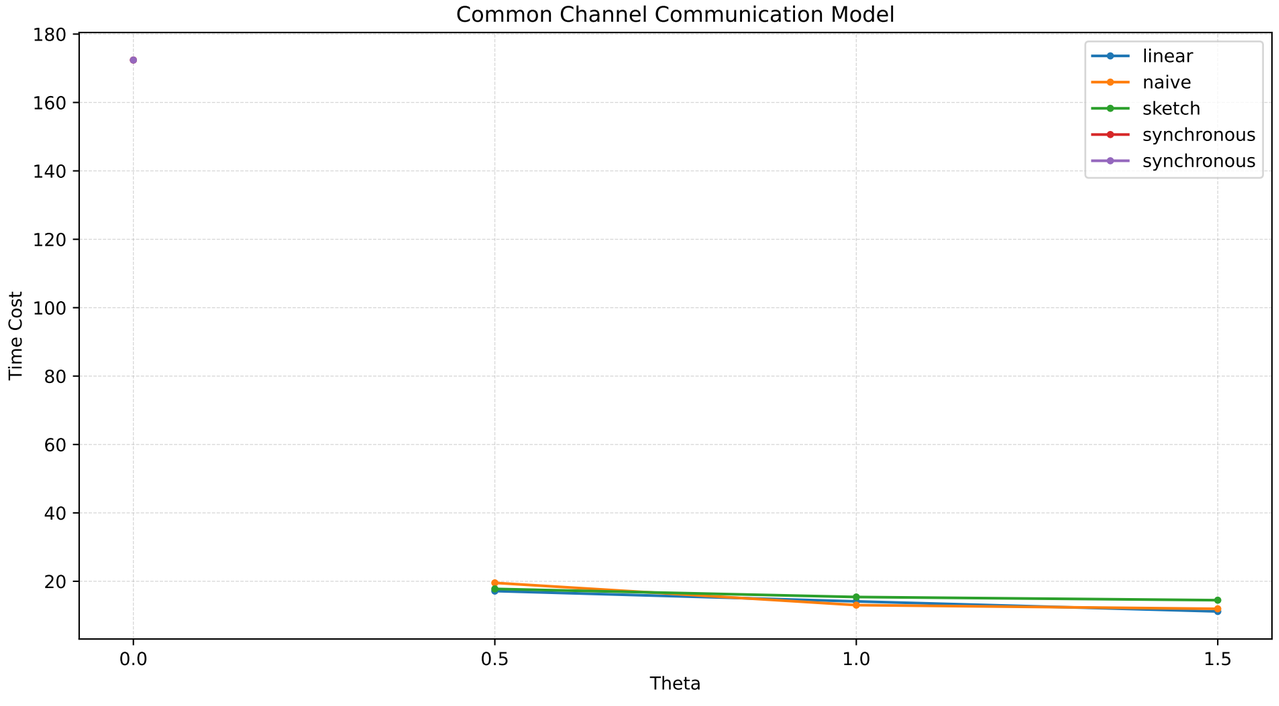


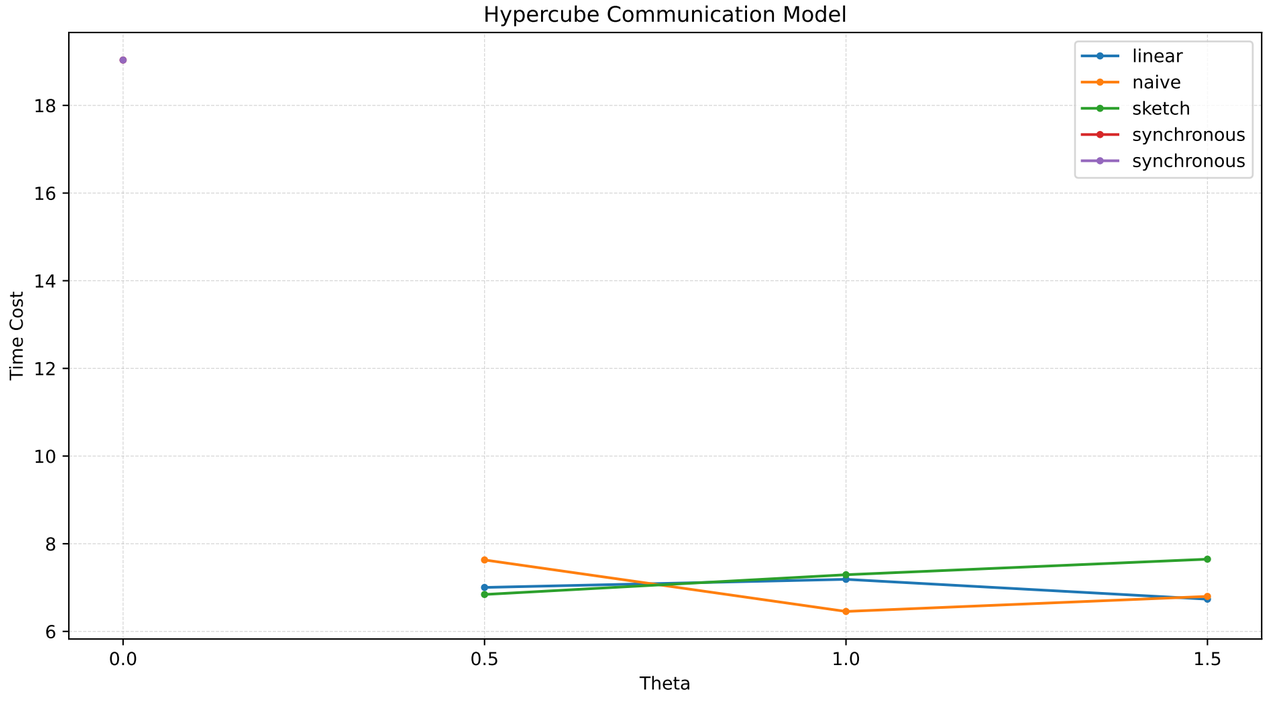
Num Clients : 45 , Batch Size : 256



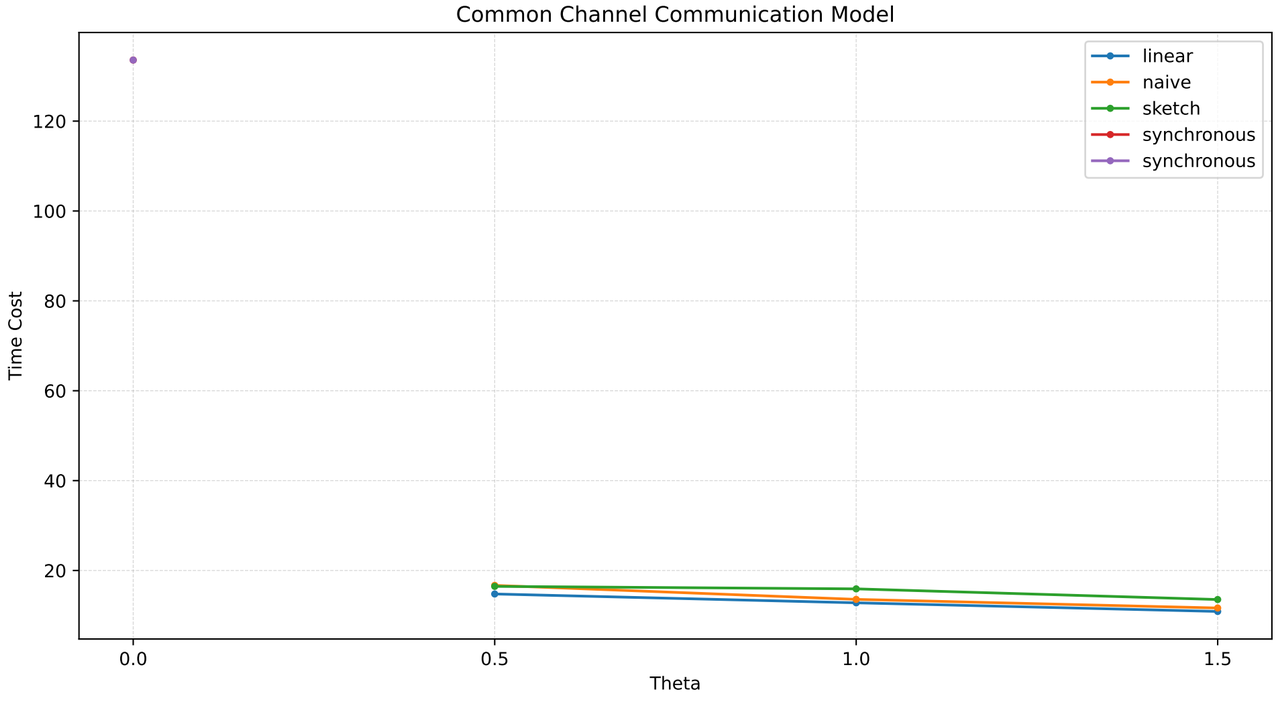


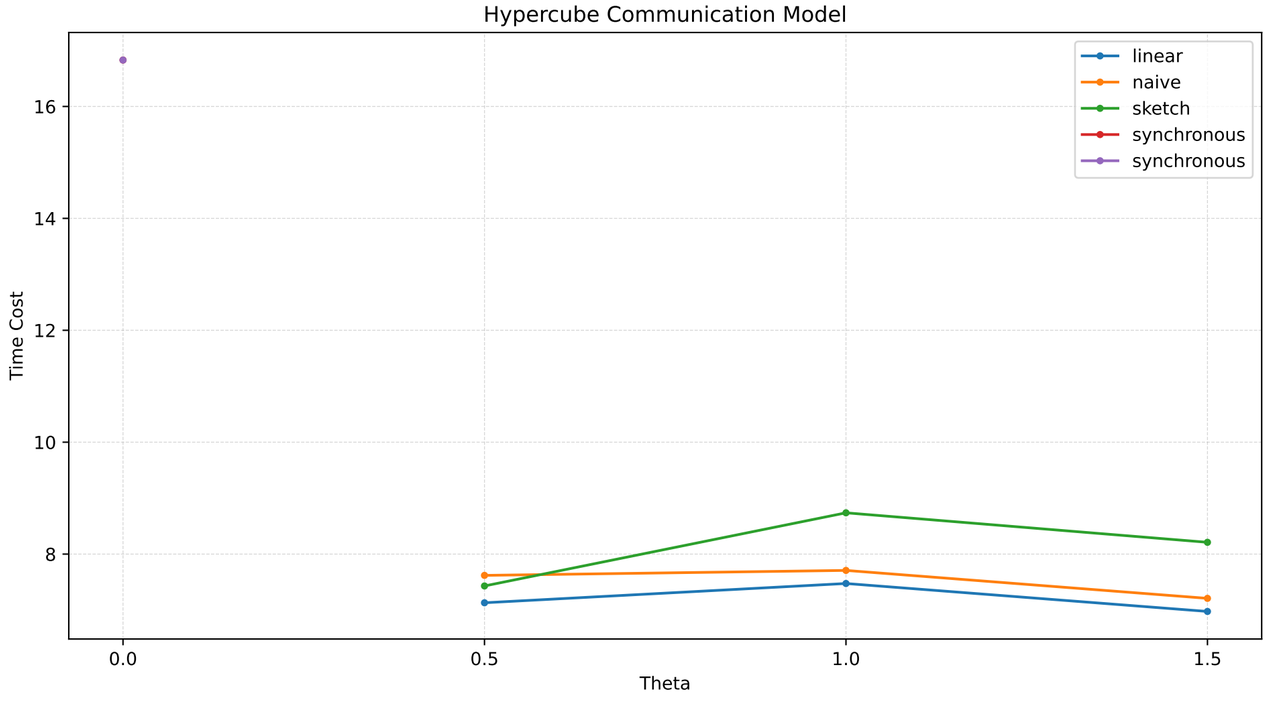
Num Clients : 50 , Batch Size : 32



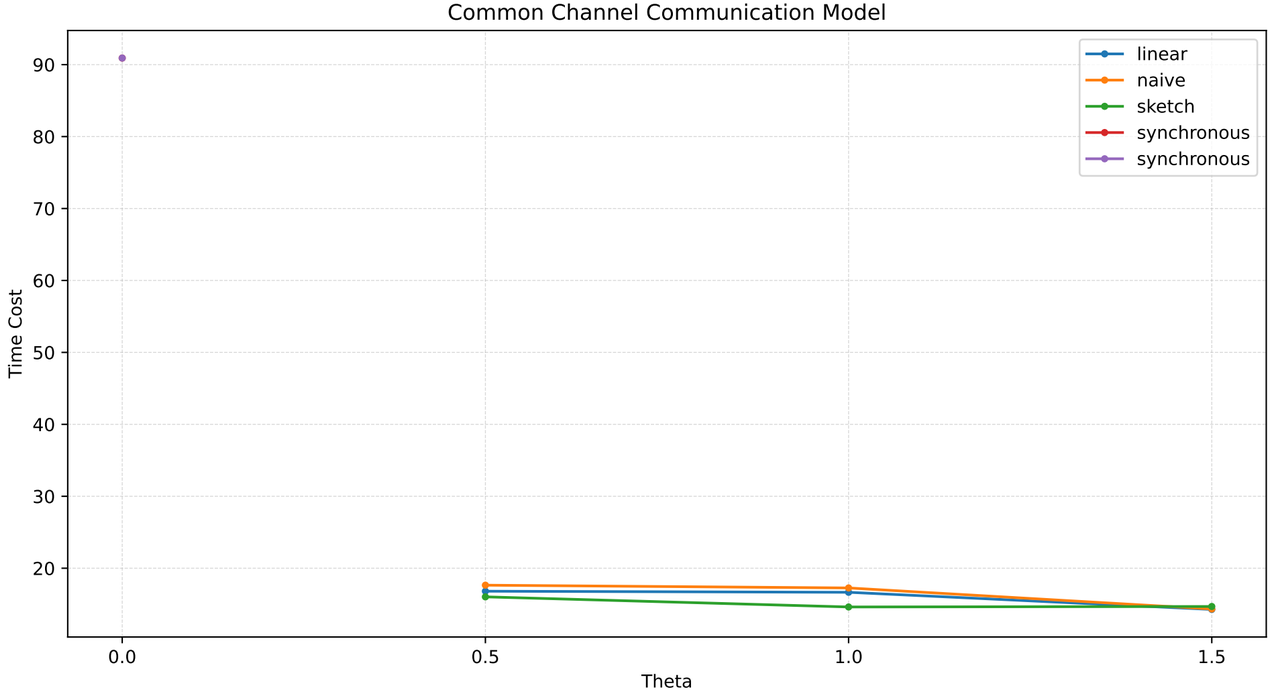


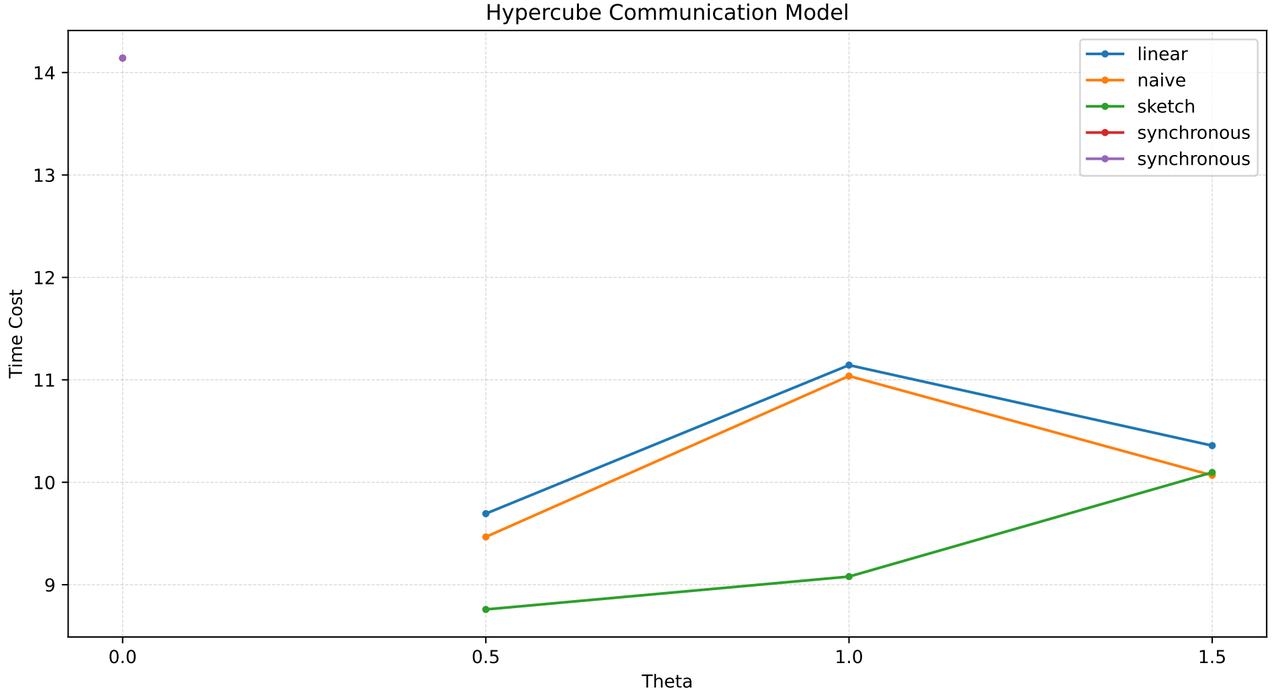
Num Clients : 50 , Batch Size : 64



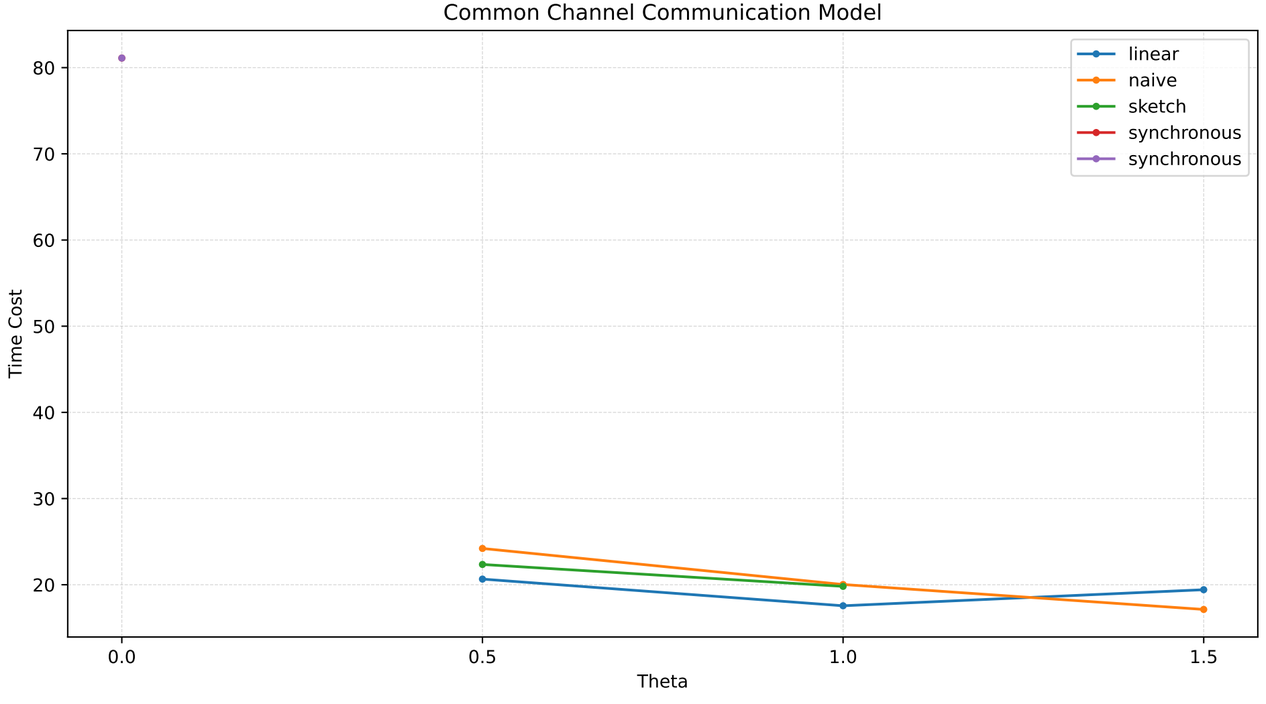


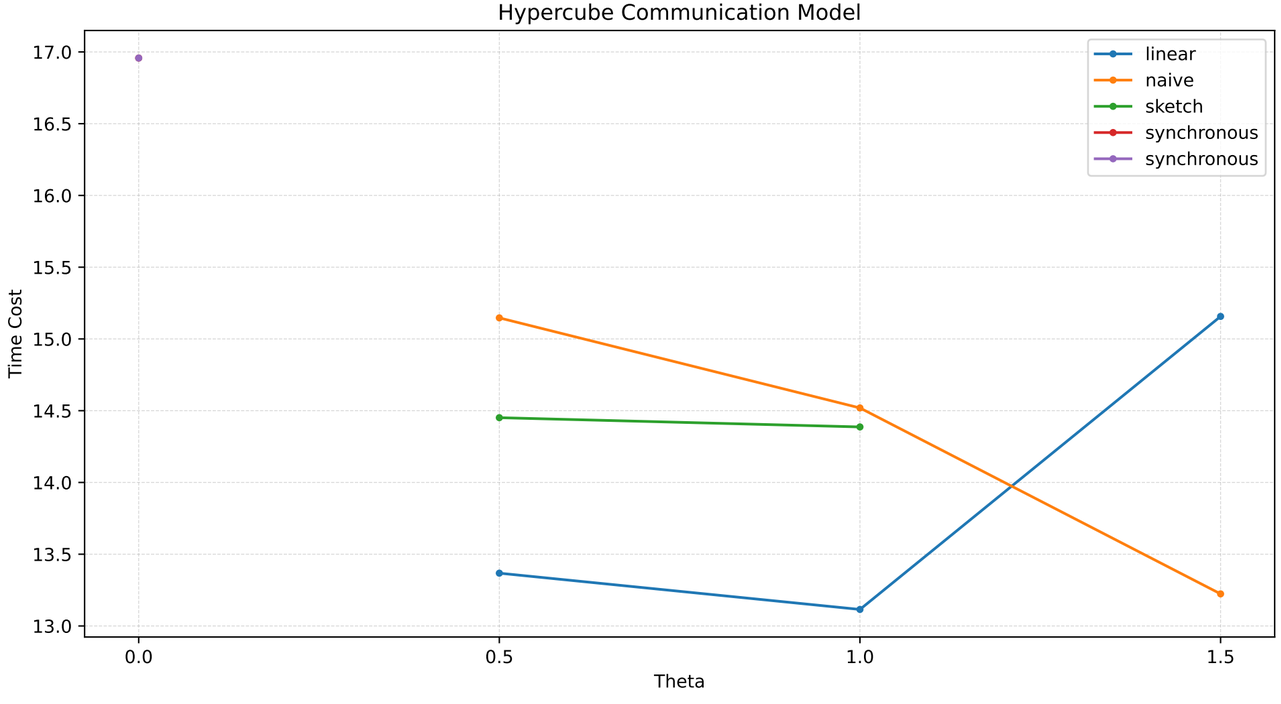
Num Clients : 50 , Batch Size : 128



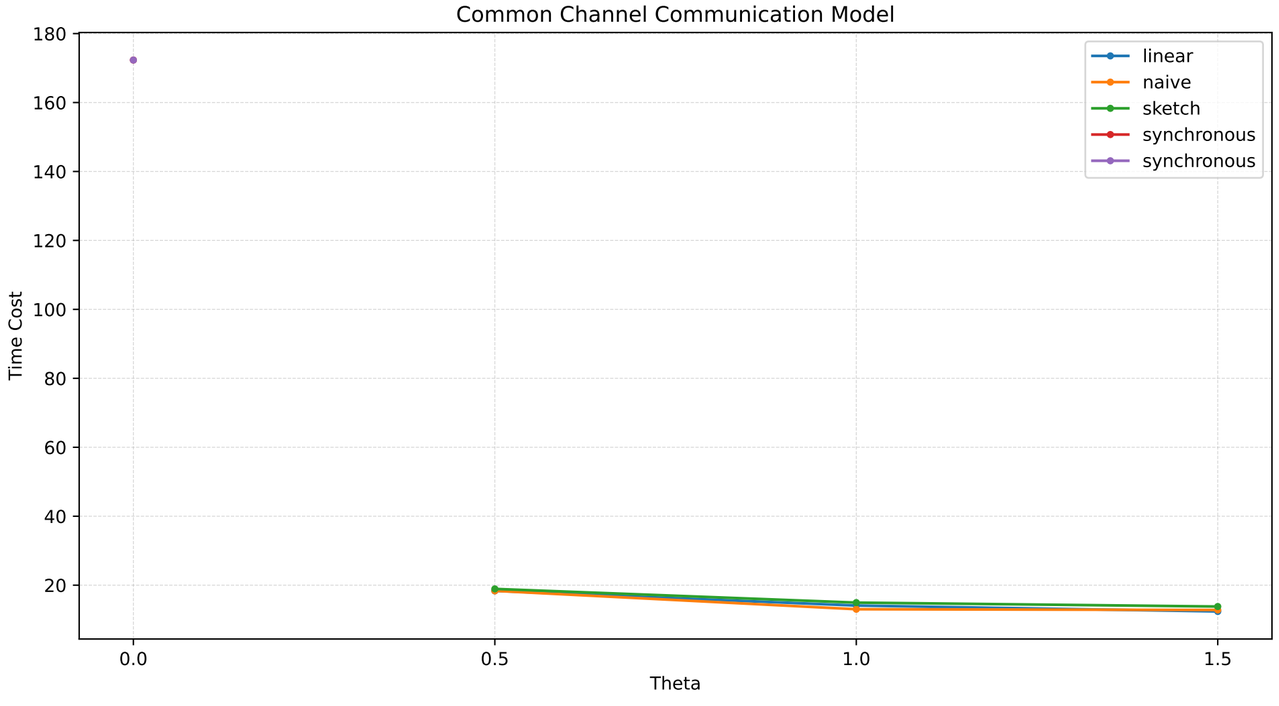


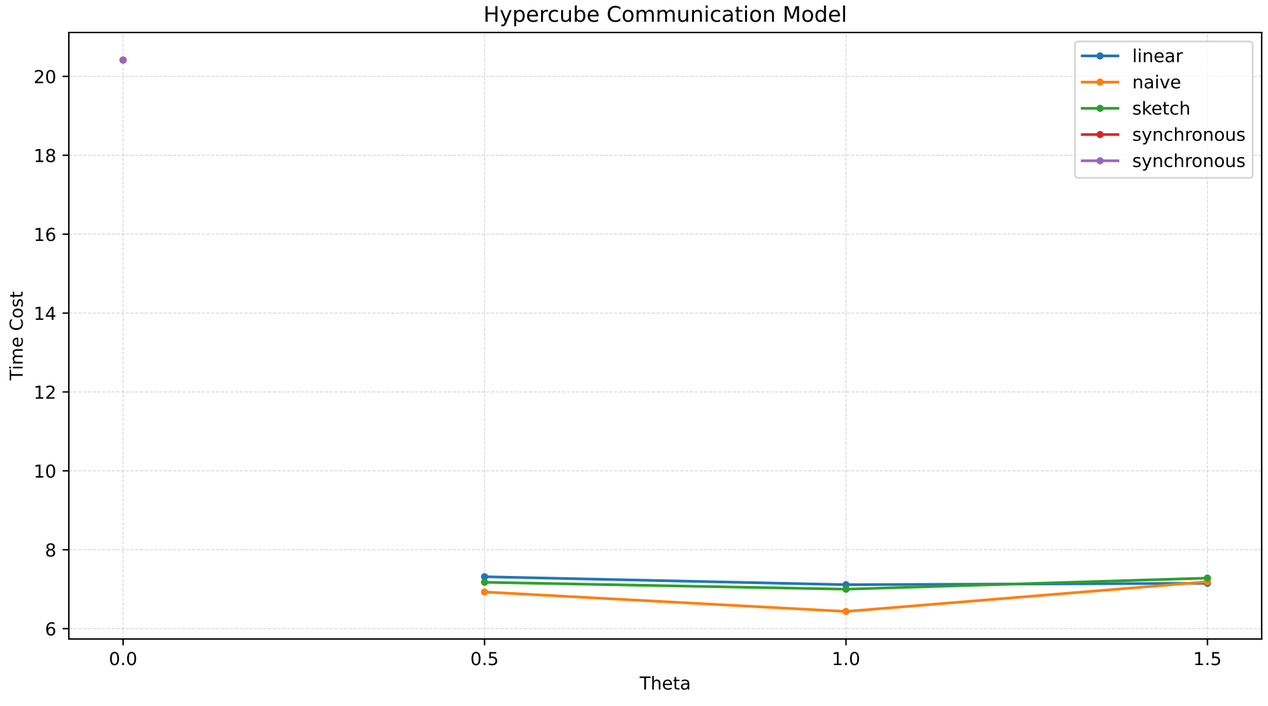
Num Clients : 50 , Batch Size : 256



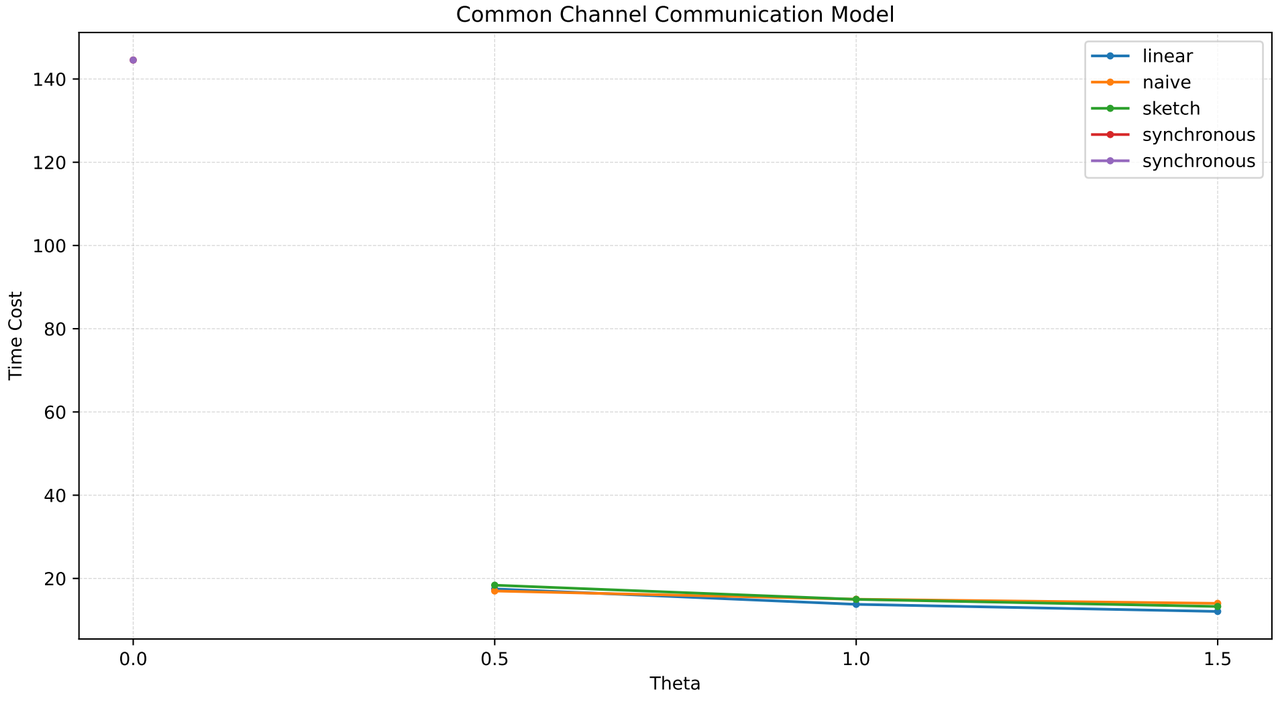


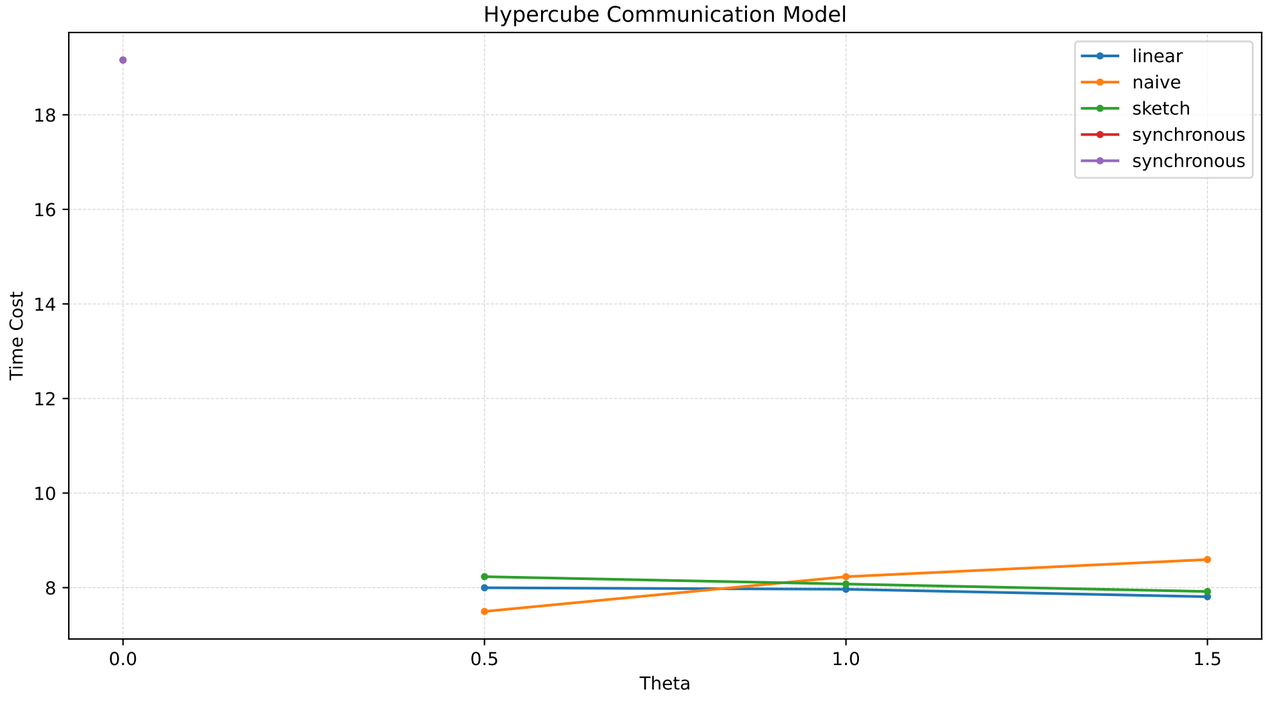
Num Clients : 55 , Batch Size : 32



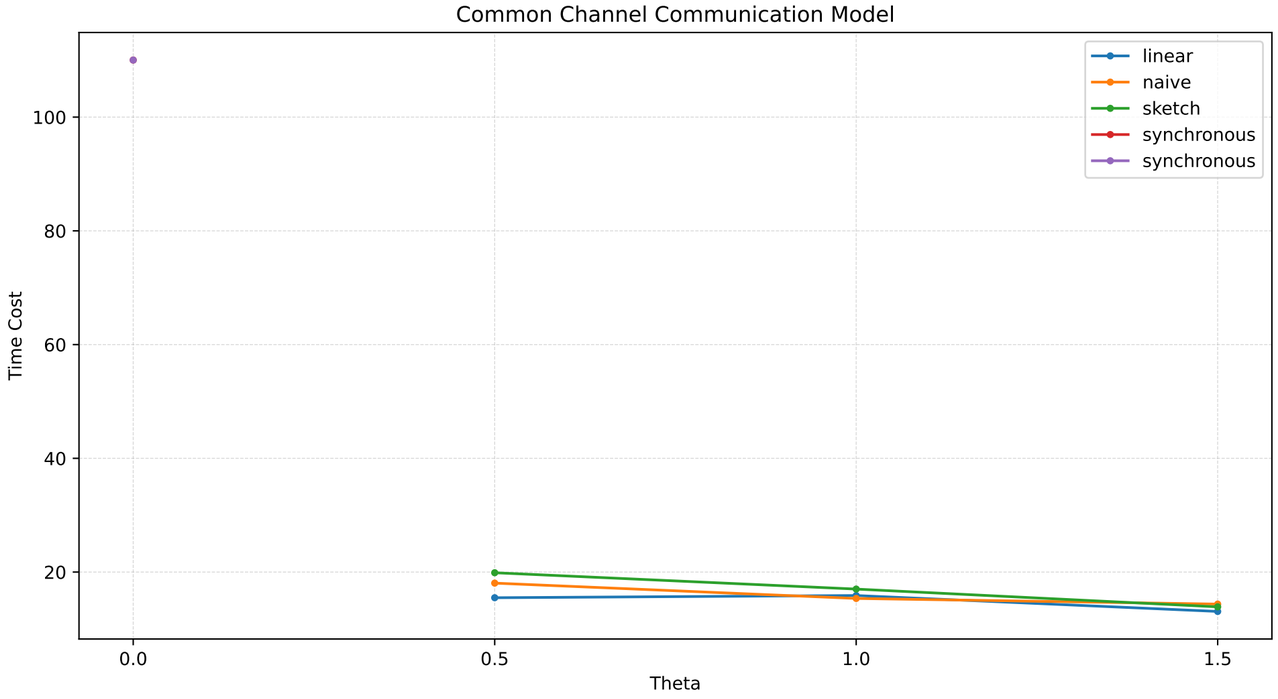


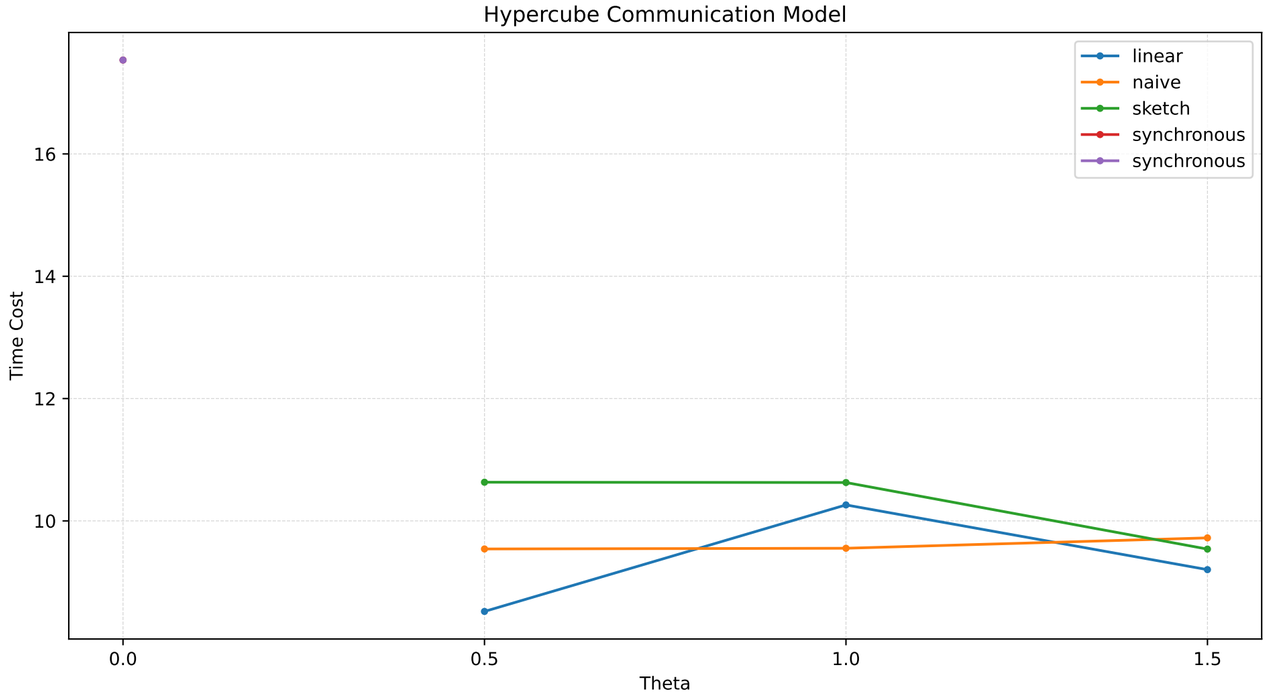
Num Clients : 55 , Batch Size : 64



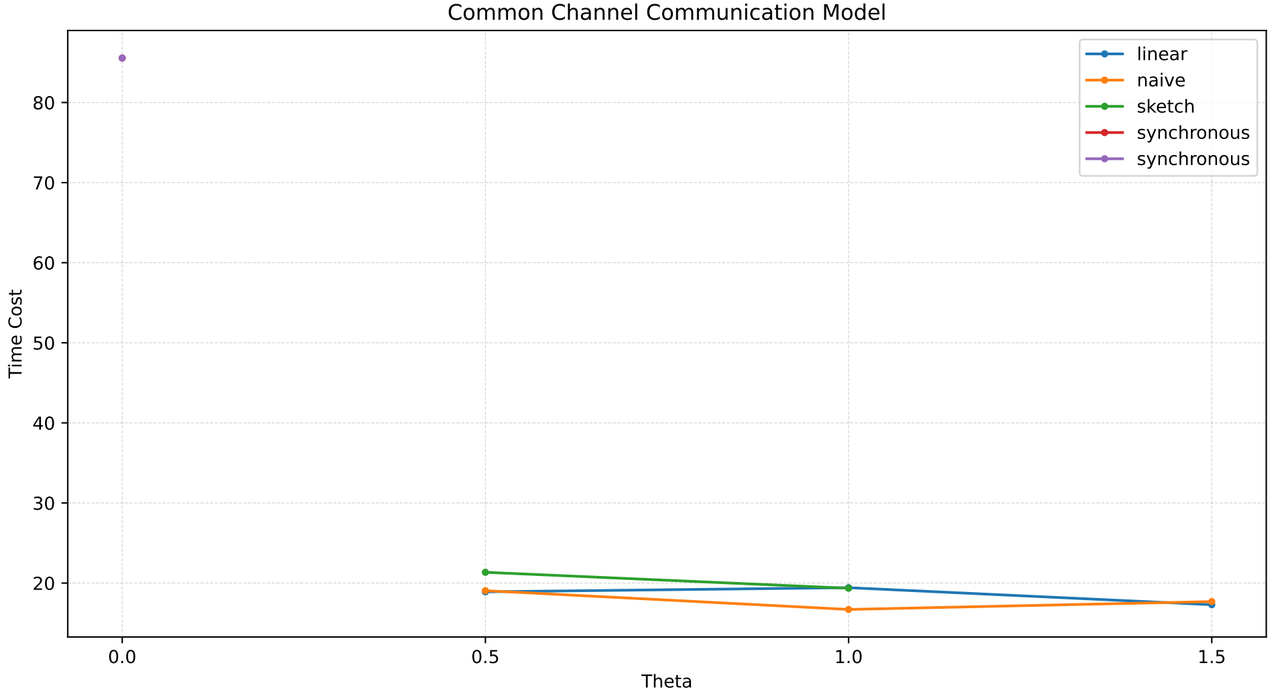


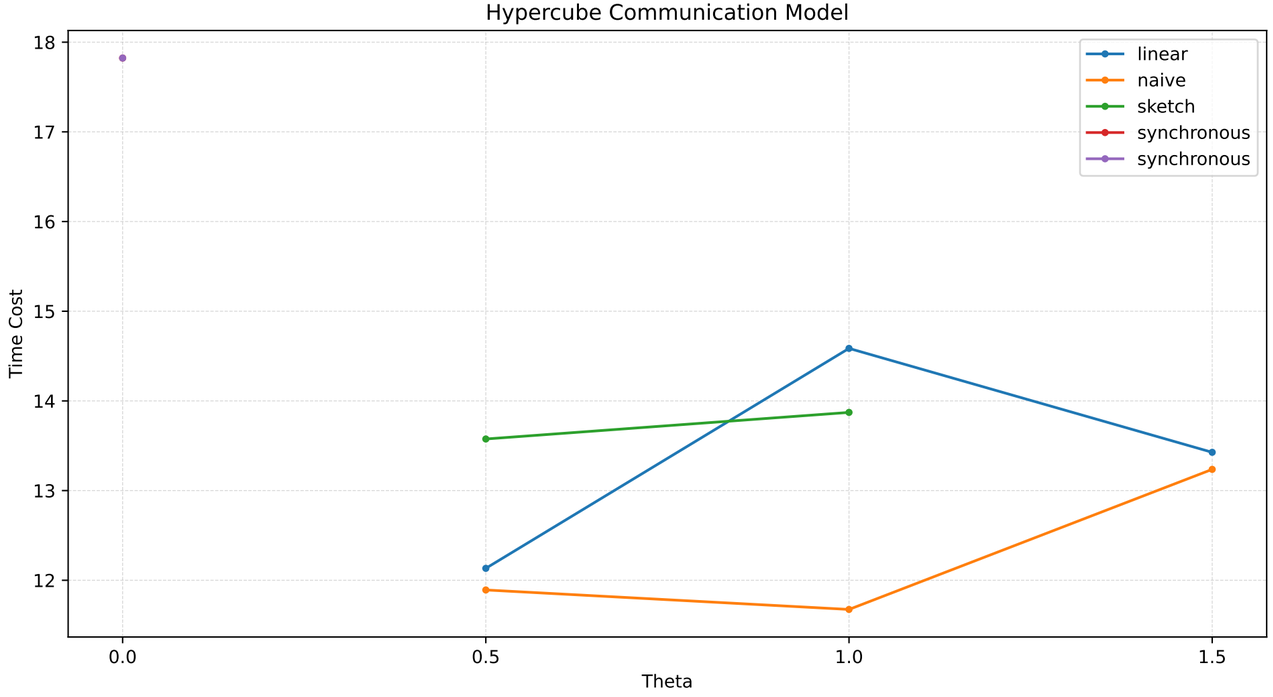
Num Clients : 55 , Batch Size : 128



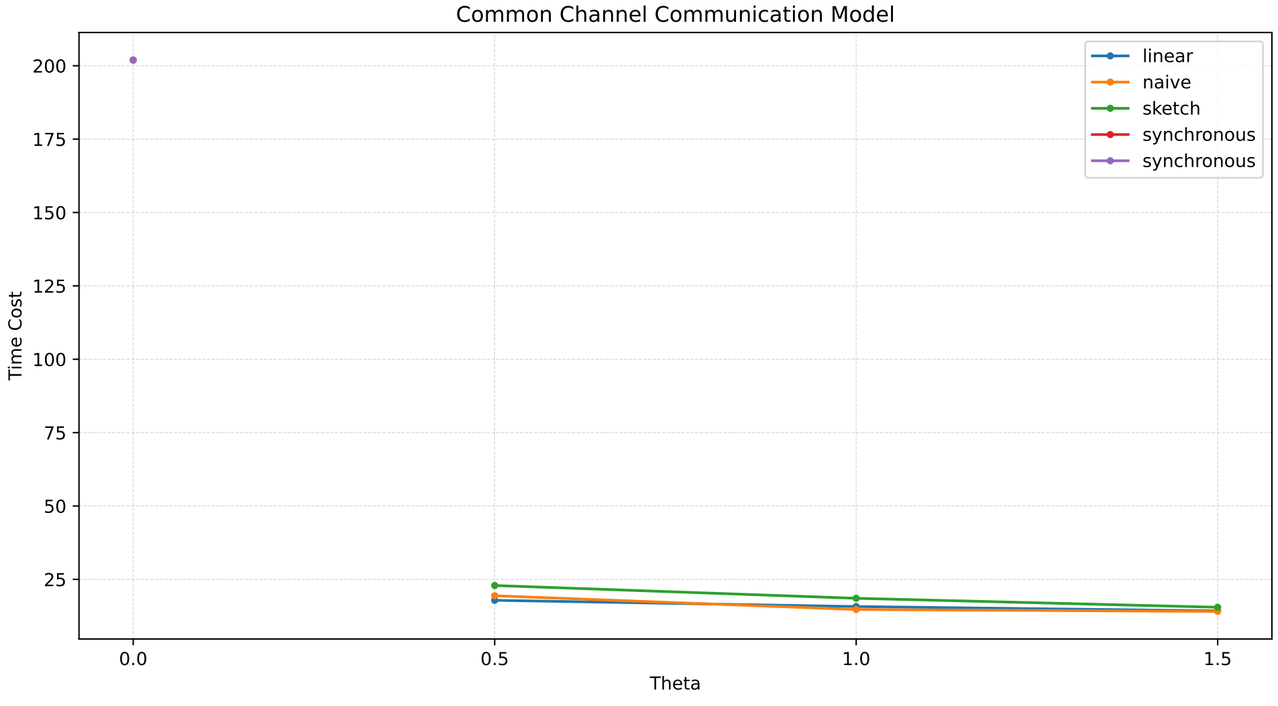


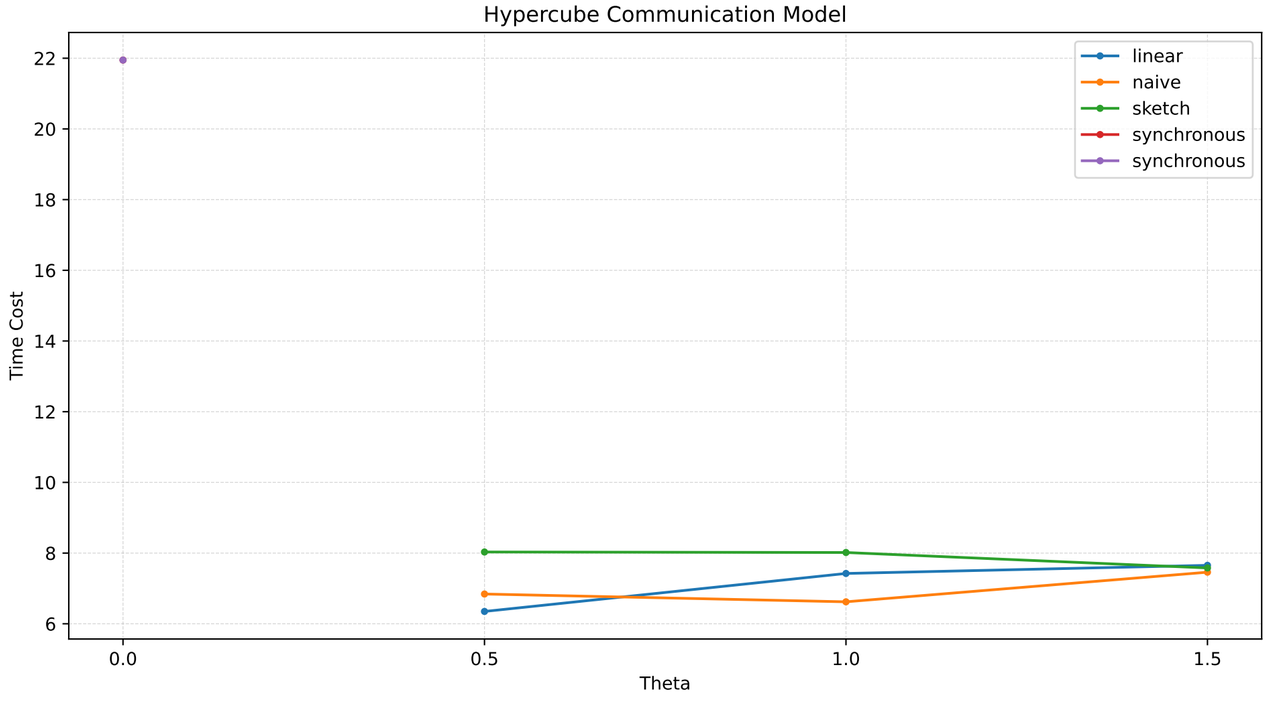
Num Clients : 55 , Batch Size : 256



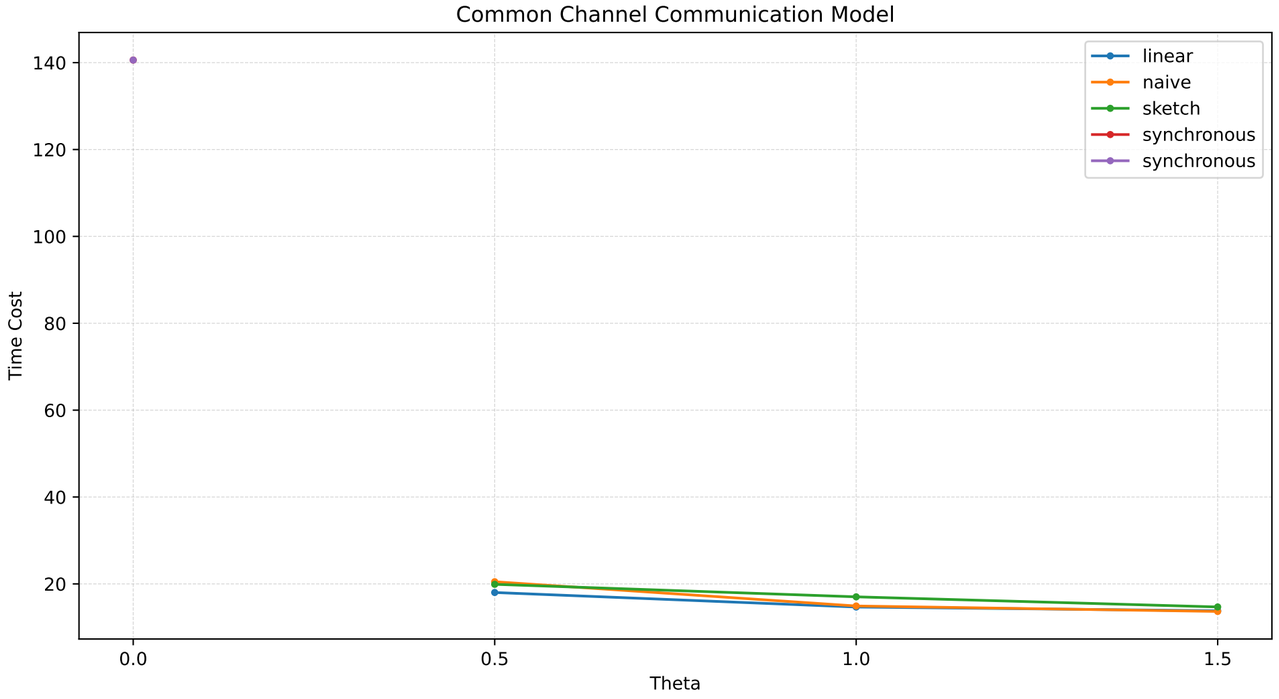


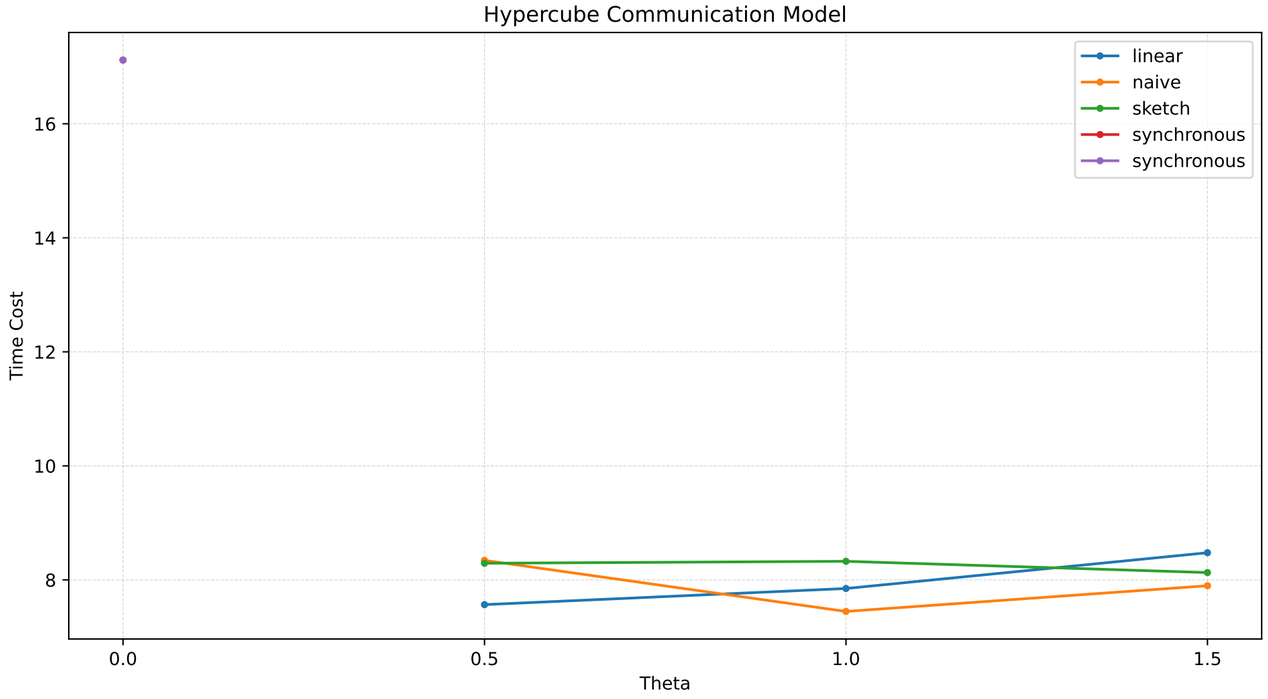
Num Clients : 60 , Batch Size : 32



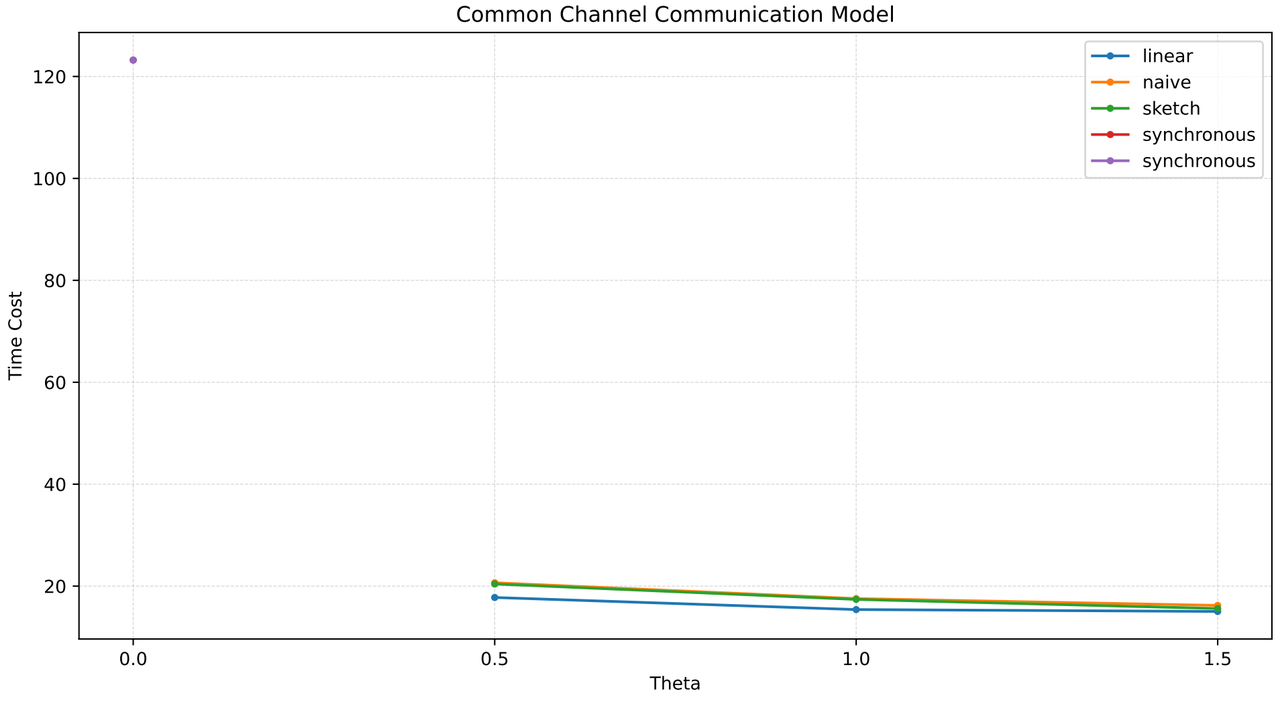


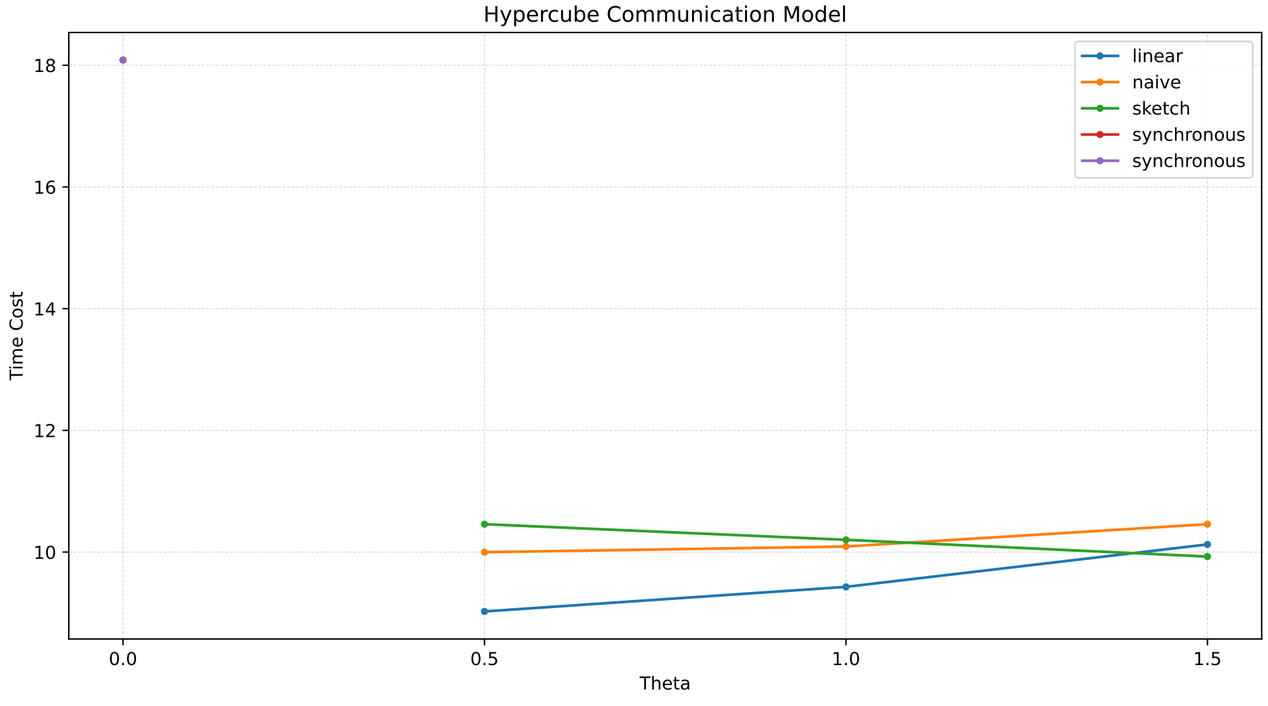
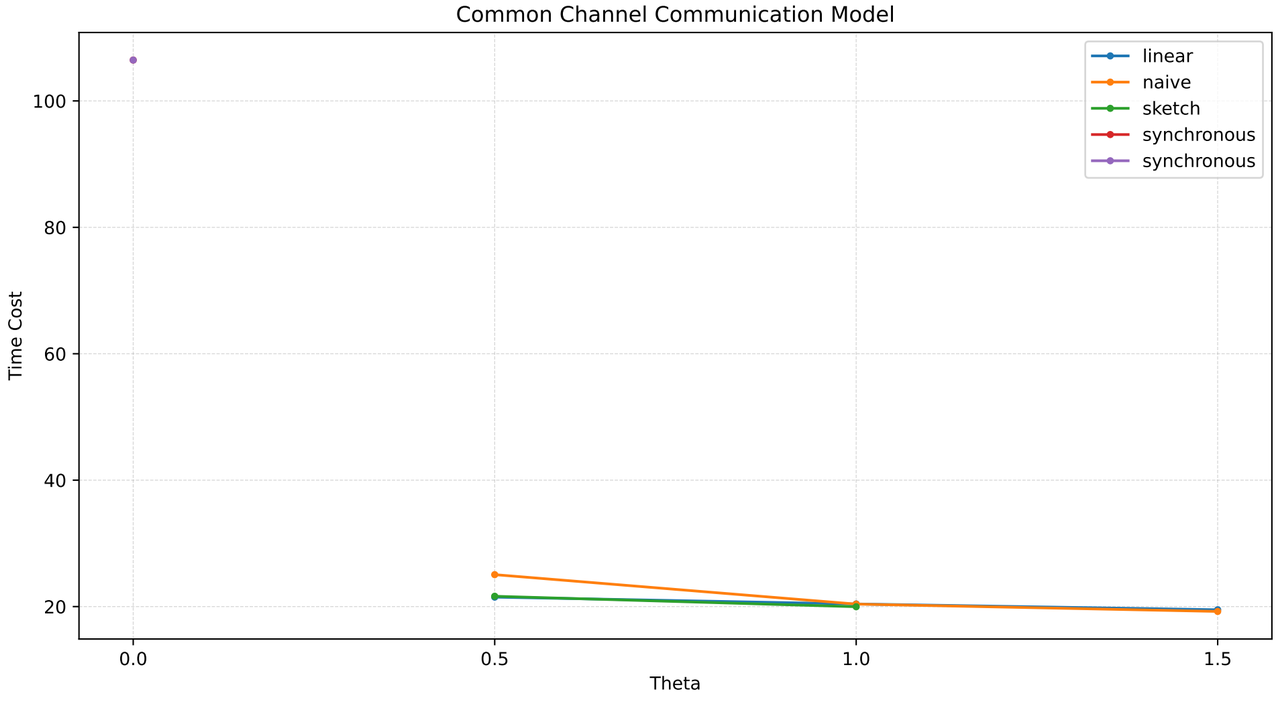
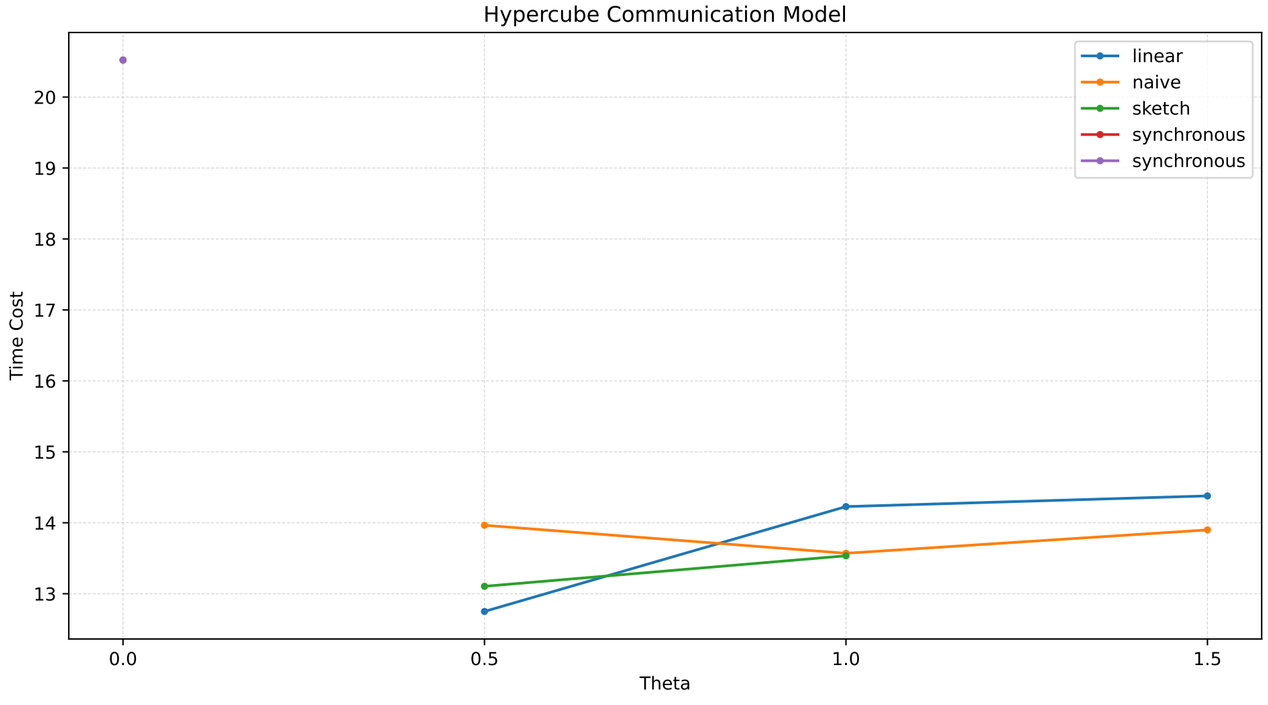
Num Clients : 60 , Batch Size : 64





Num Clients : 60 , Batch Size : 128





Num Clients : 60 , Batch Size : 256