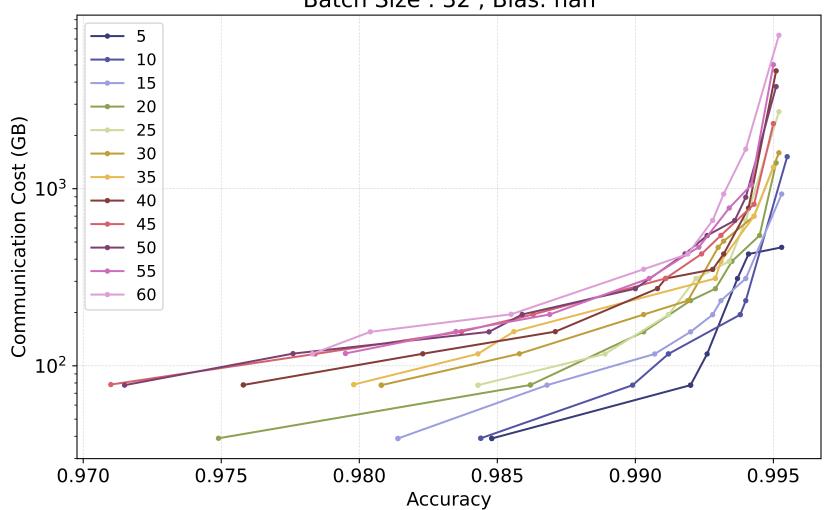
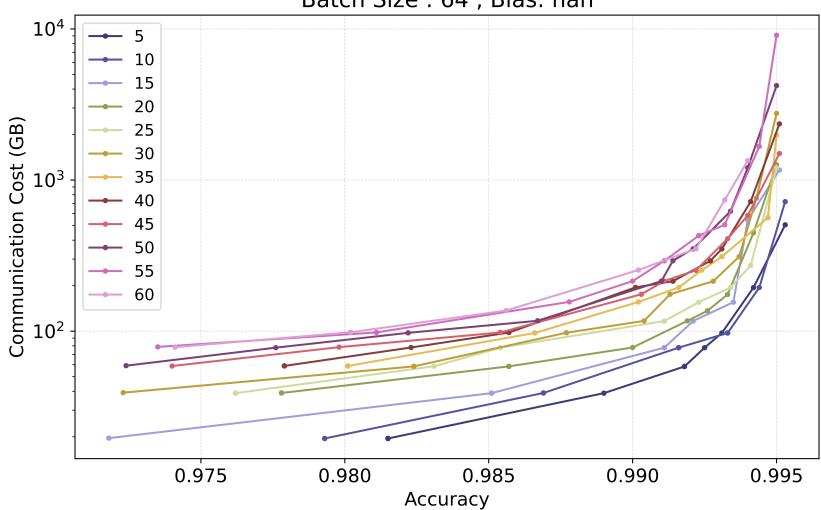
synchronous Batch Size : 32 , Bias: nan

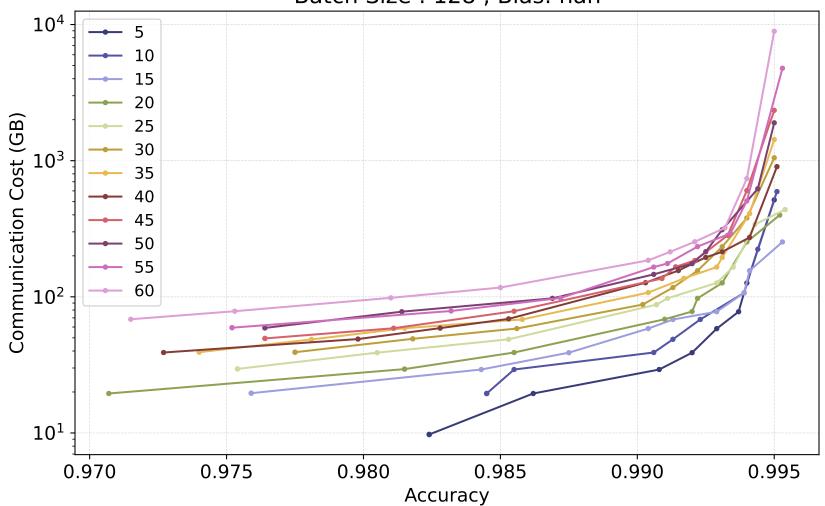


synchronous Batch Size : 64 , Bias: nan

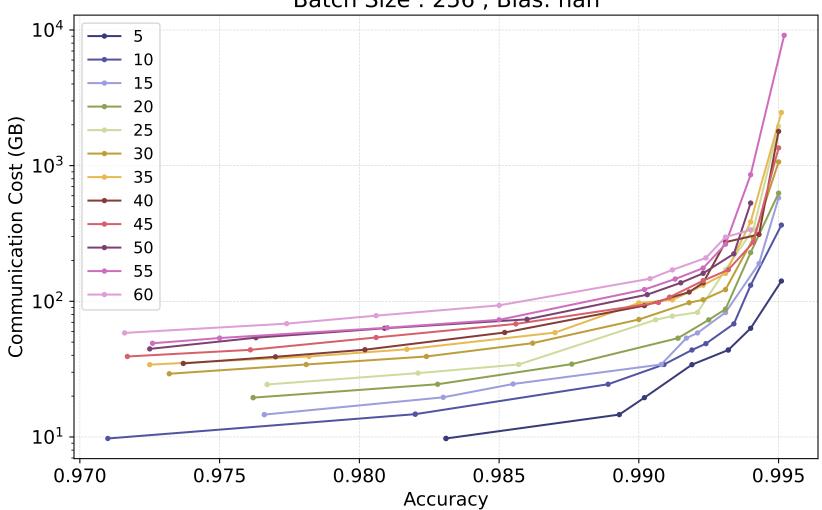


synchronous Batch Sizo : 128 Bi

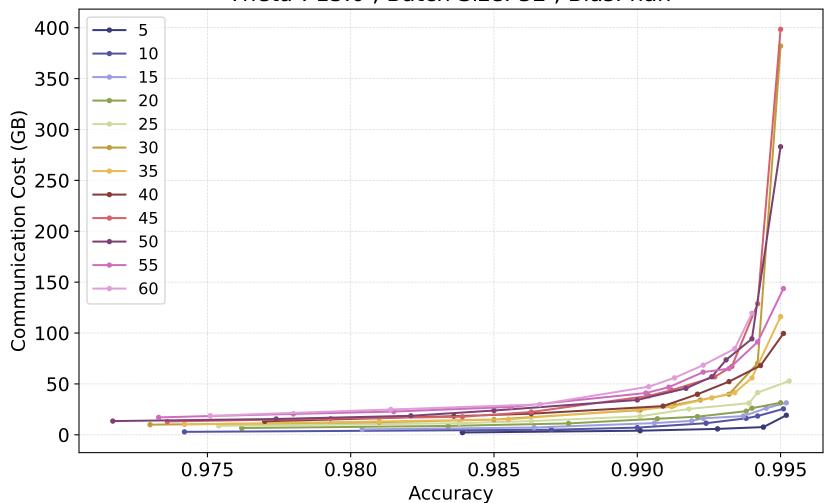
Batch Size: 128, Bias: nan



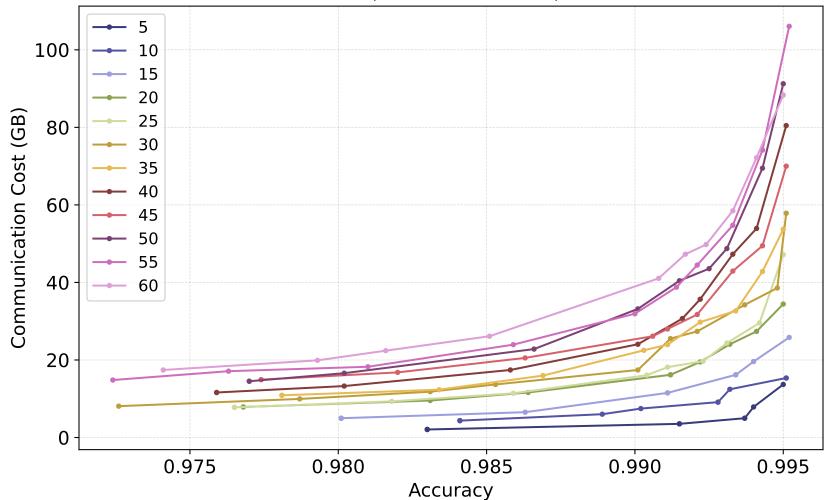
synchronous Batch Size : 256 , Bias: nan



gm *Theta*: 15.0, Batch Size: 32, Bias: nan

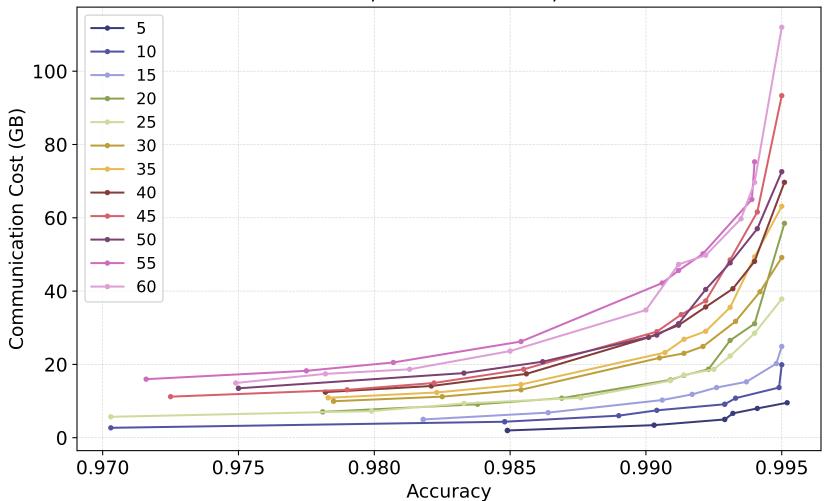


naive Theta: 15.0, Batch Size: 32, Bias: nan



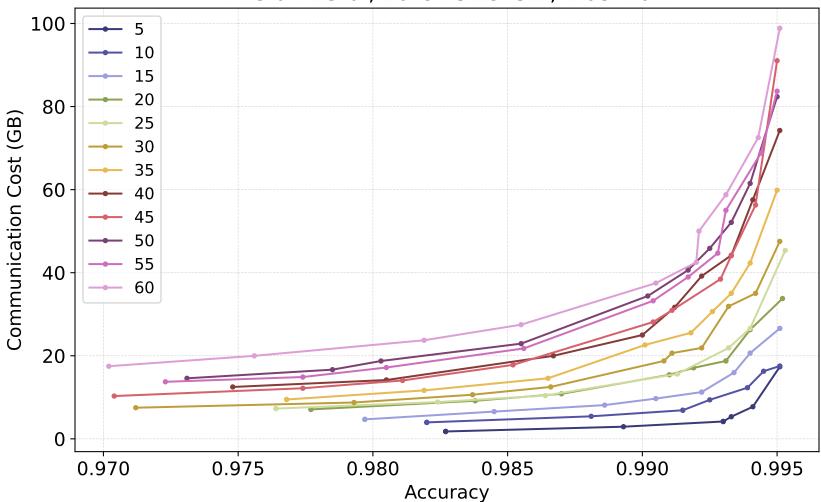
linear

Theta: 15.0, Batch Size: 32, Bias: nan

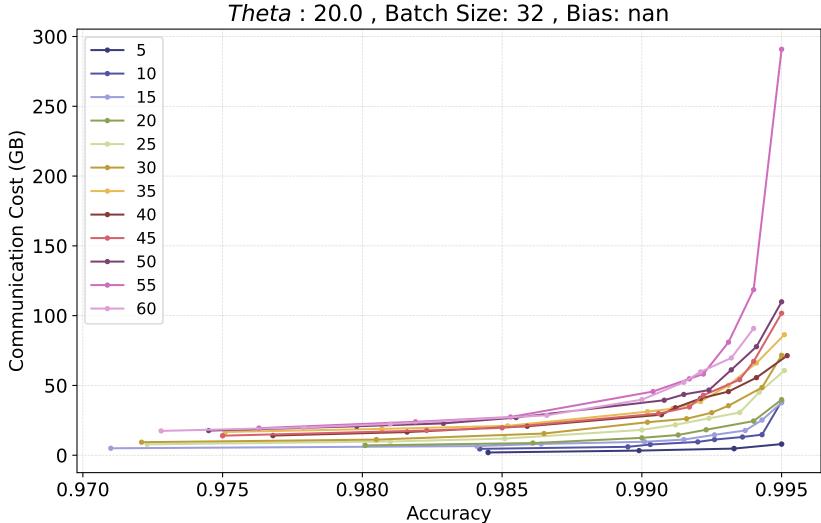


sketch

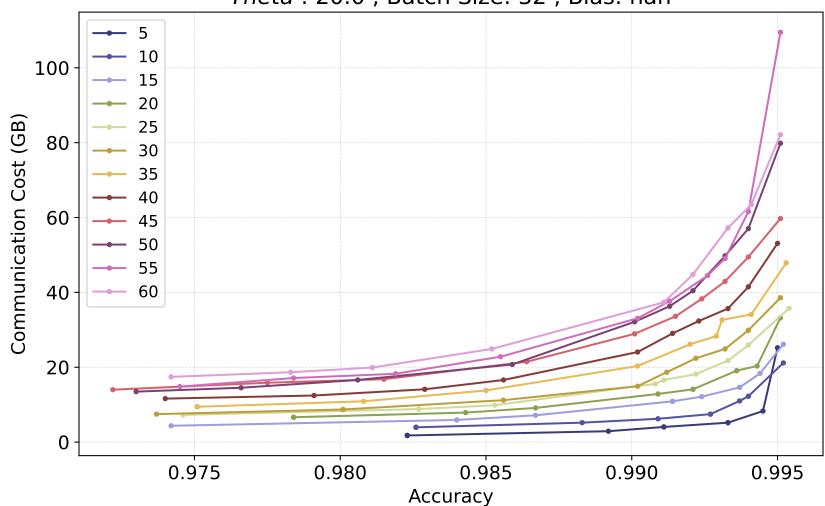
Theta: 15.0, Batch Size: 32, Bias: nan



gm

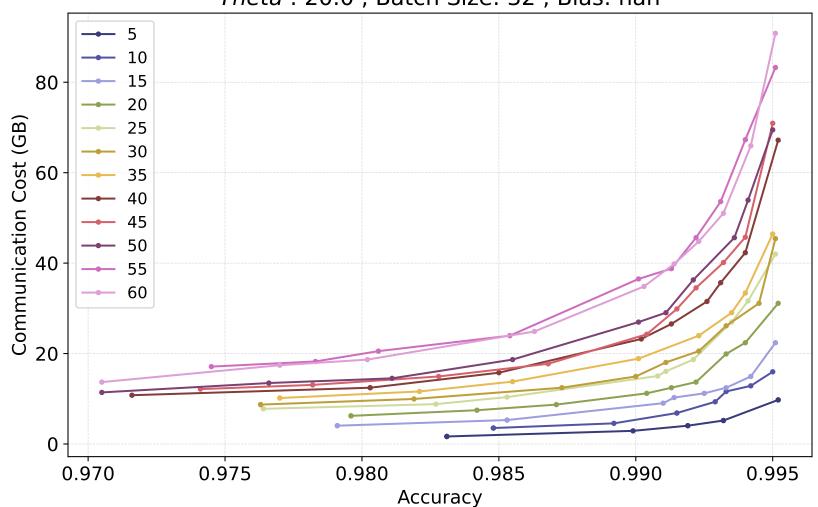


naive Theta: 20.0, Batch Size: 32, Bias: nan



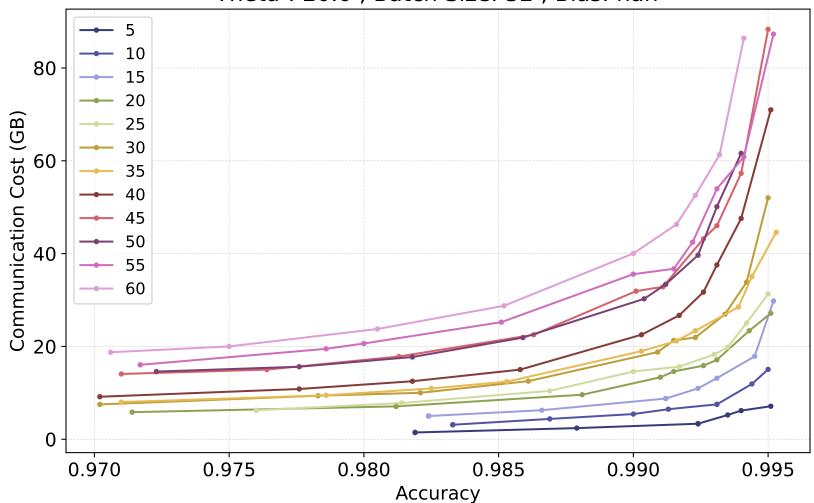
linear

Theta: 20.0, Batch Size: 32, Bias: nan

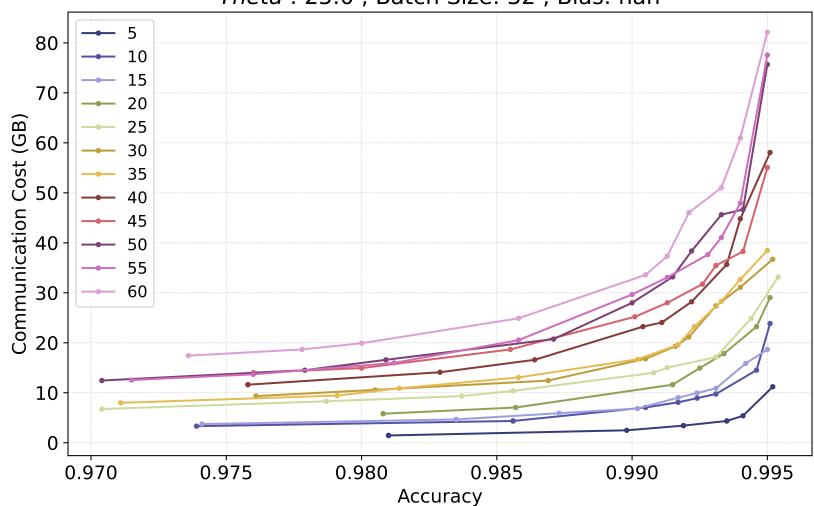


sketch

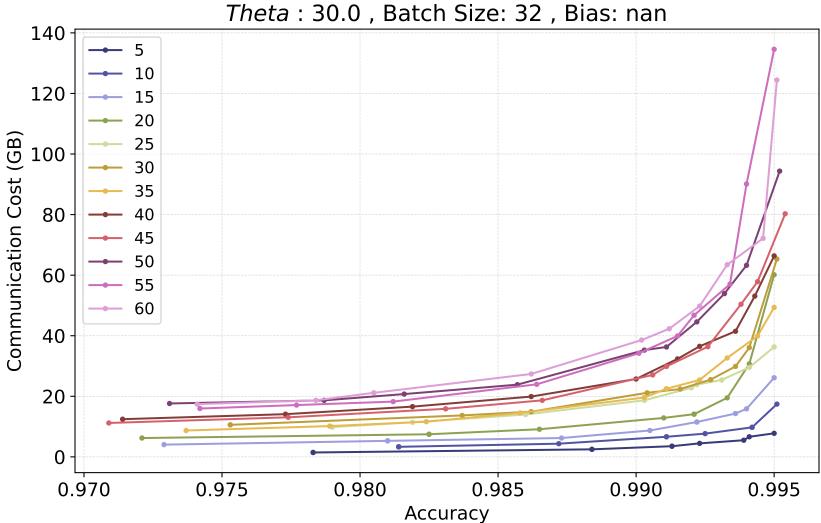
Theta: 20.0, Batch Size: 32, Bias: nan



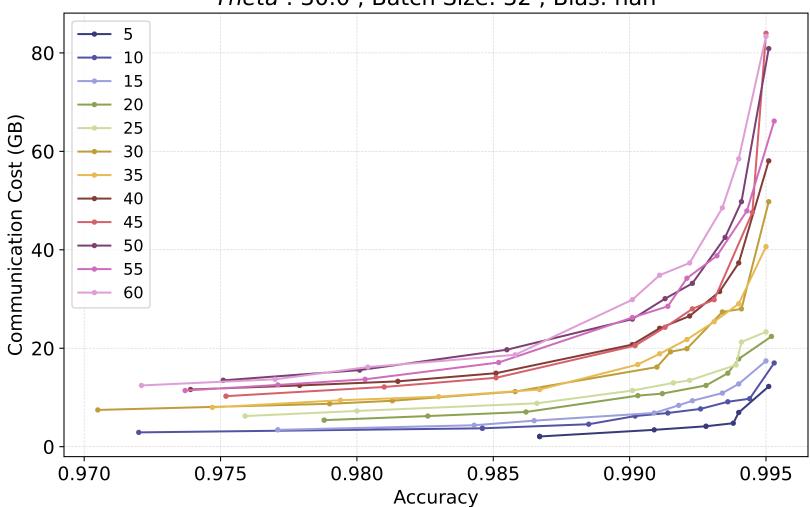
naive Theta: 25.0, Batch Size: 32, Bias: nan



gm

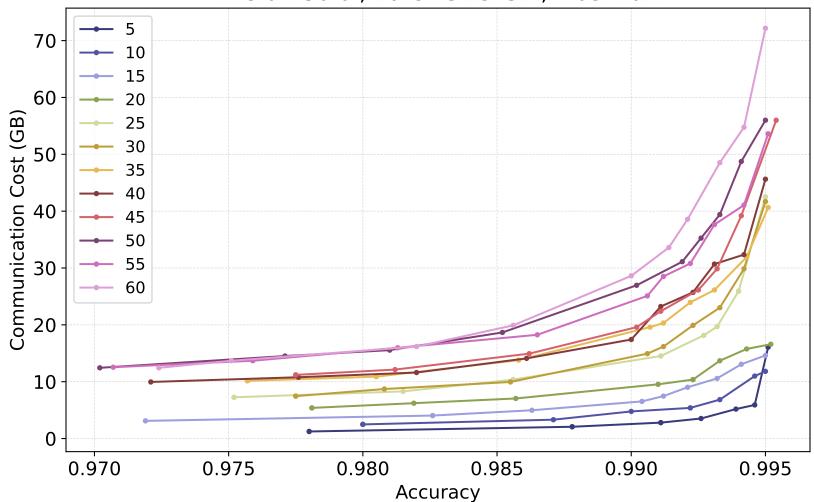


naive Theta: 30.0, Batch Size: 32, Bias: nan



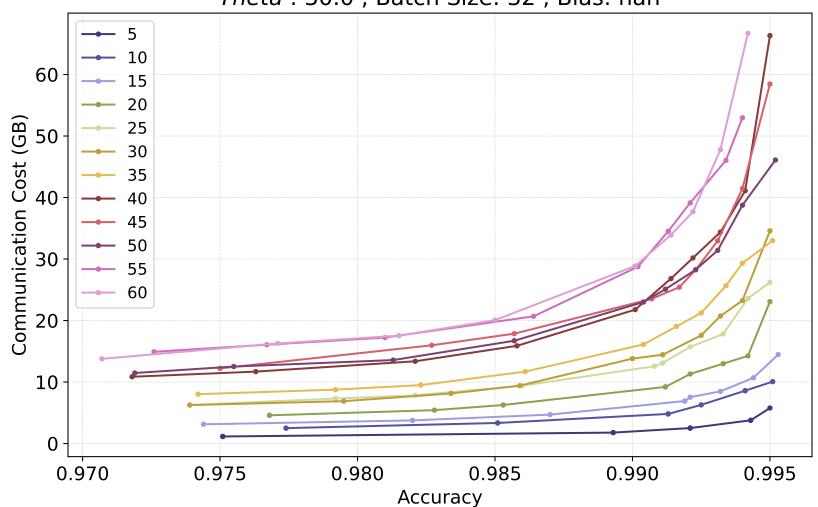
linear

Theta: 30.0, Batch Size: 32, Bias: nan

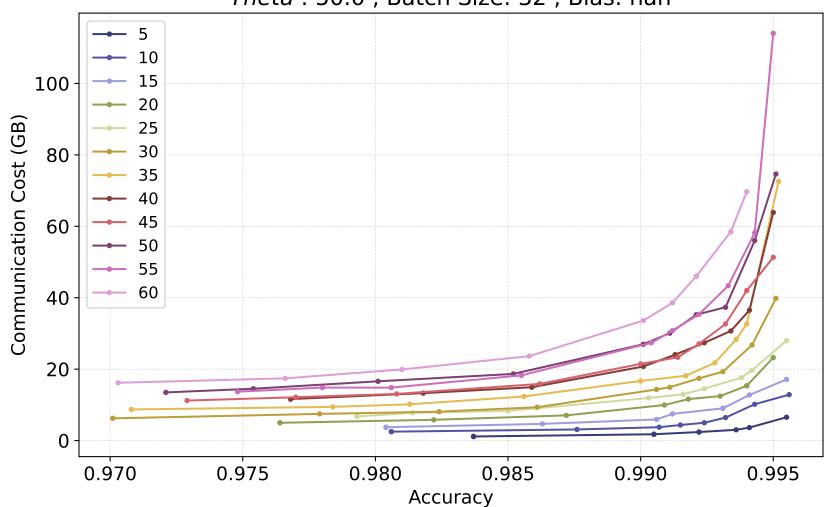


sketch

Theta: 30.0, Batch Size: 32, Bias: nan

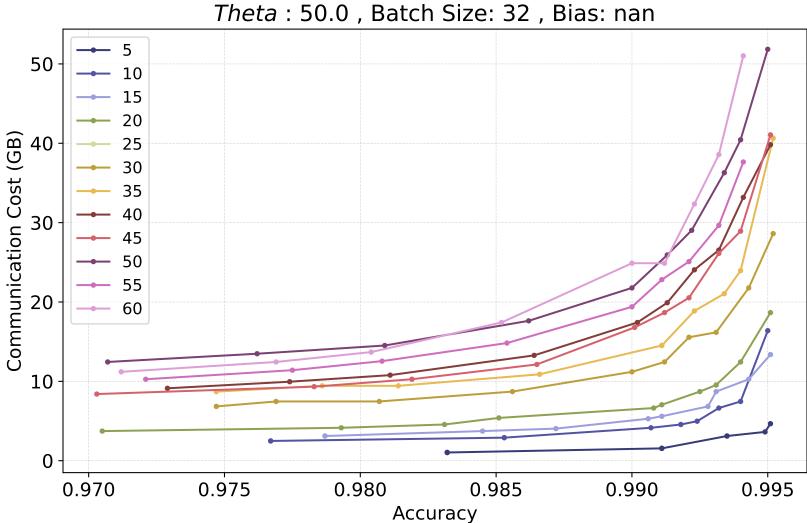


gm *Theta*: 50.0, Batch Size: 32, Bias: nan



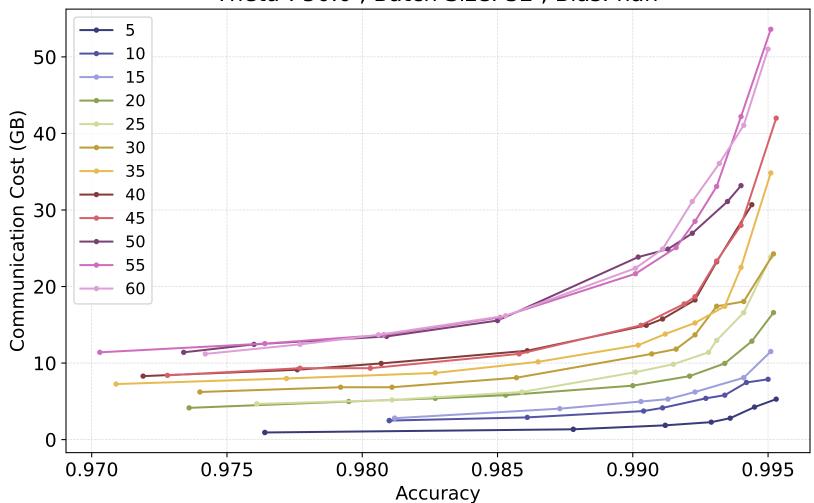
naive

Theta: 50.0 Batch Size: 32 Bia

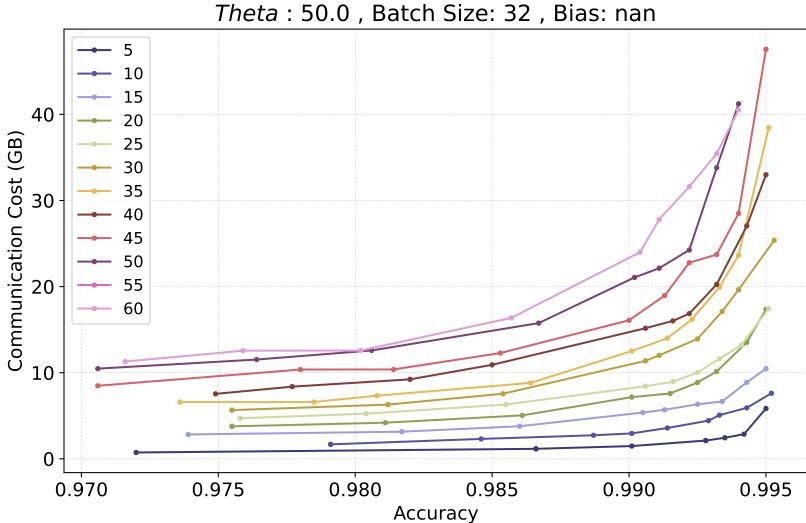


linear

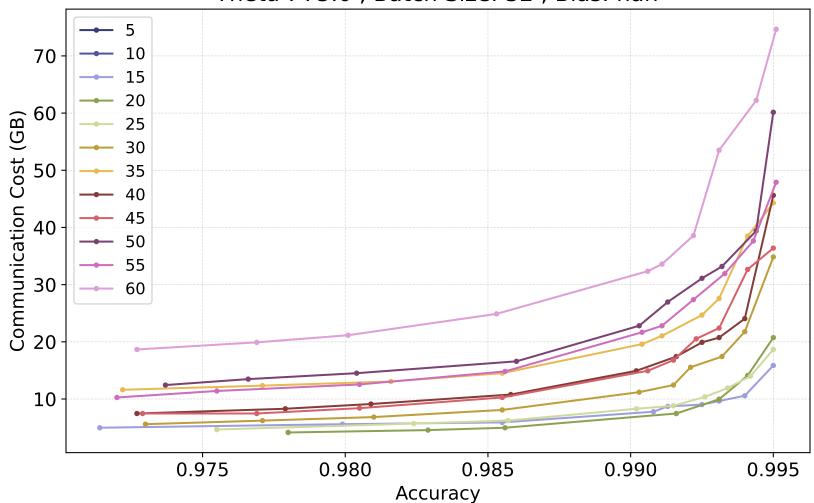
Theta: 50.0, Batch Size: 32, Bias: nan



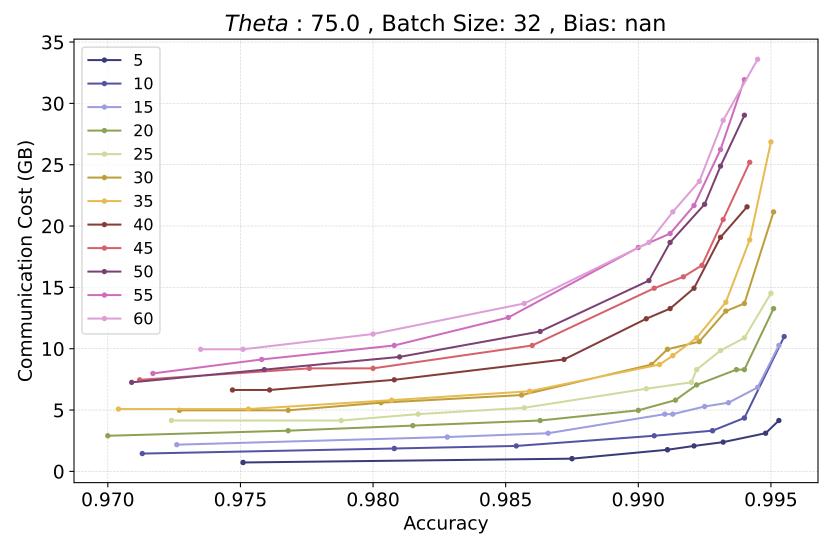
sketch



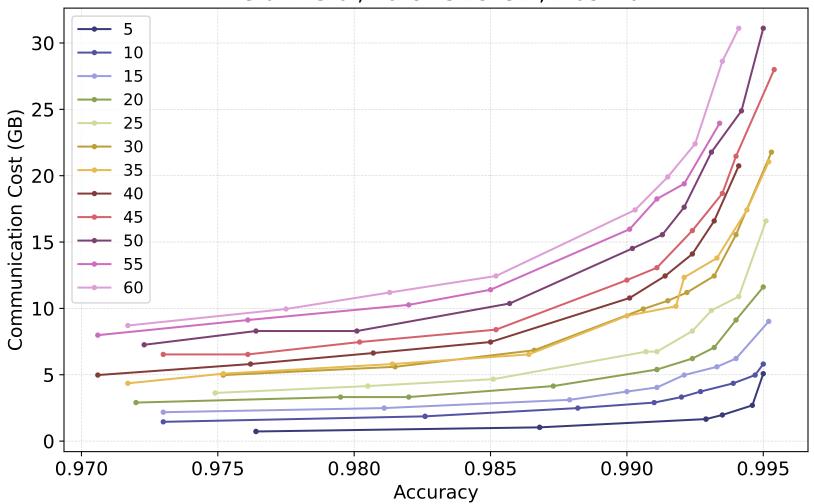
gm Theta: 75.0, Batch Size: 32, Bias: nan



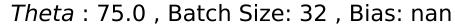
naive

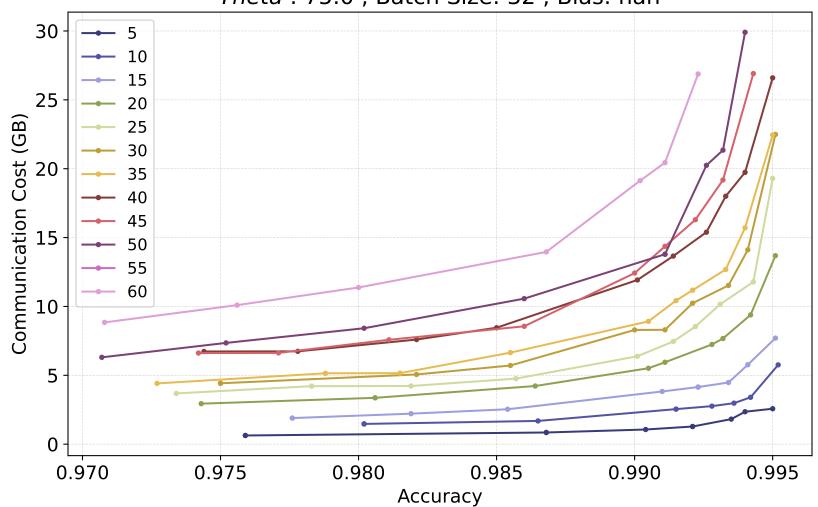


linear
Theta: 75.0, Batch Size: 32, Bias: nan

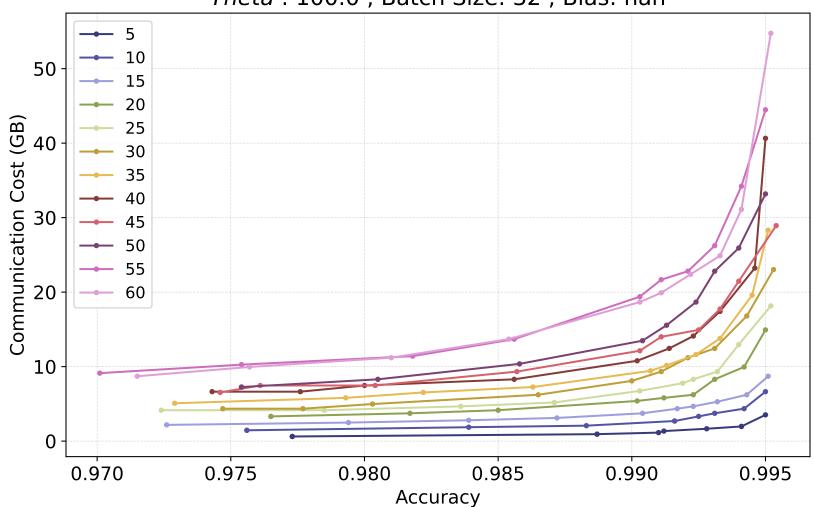


sketch

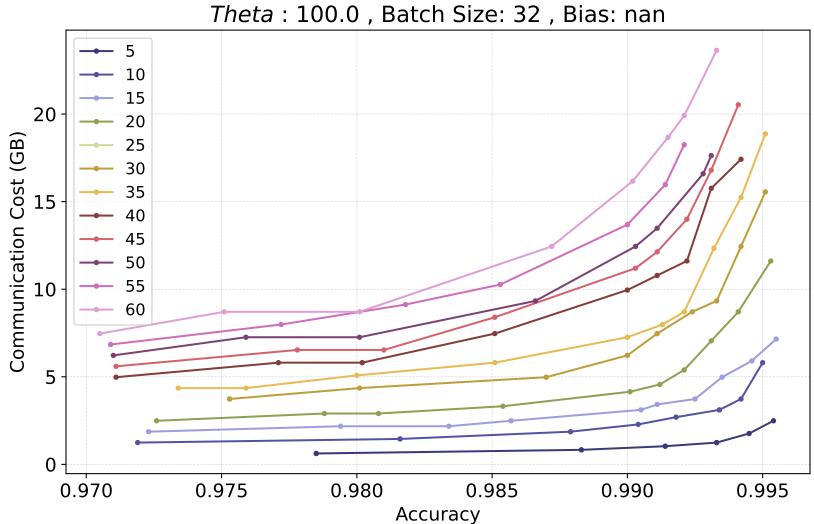




gm *Theta*: 100.0, Batch Size: 32, Bias: nan

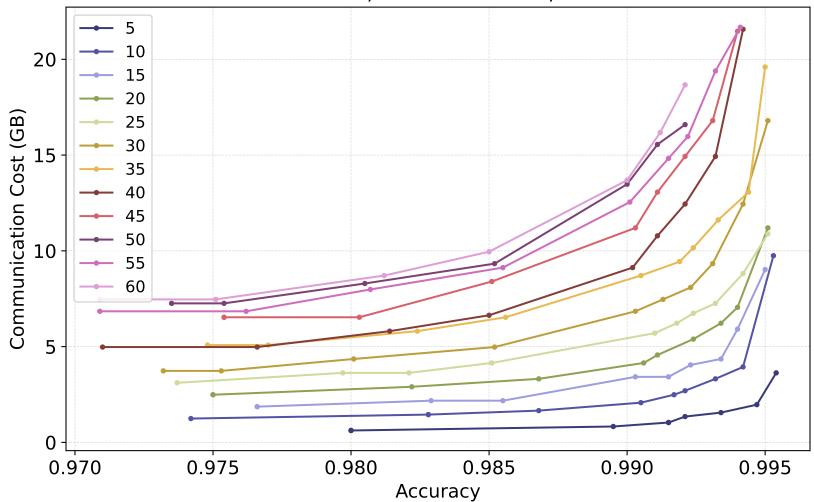


naive



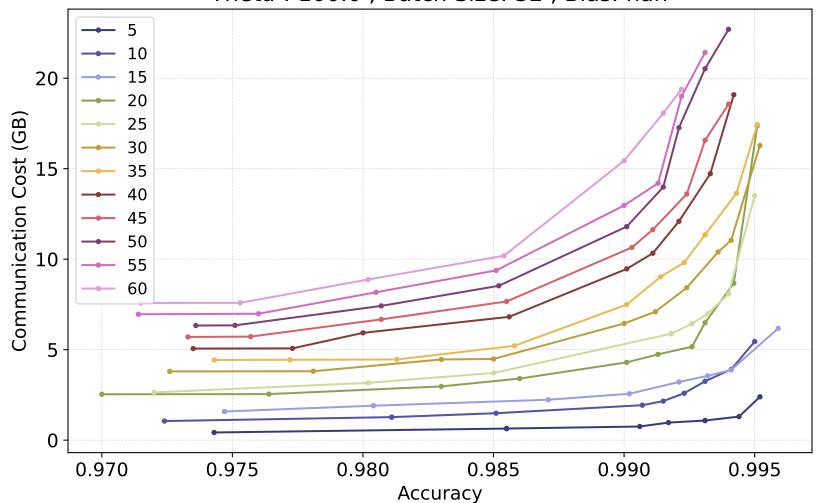
linear

Theta: 100.0, Batch Size: 32, Bias: nan

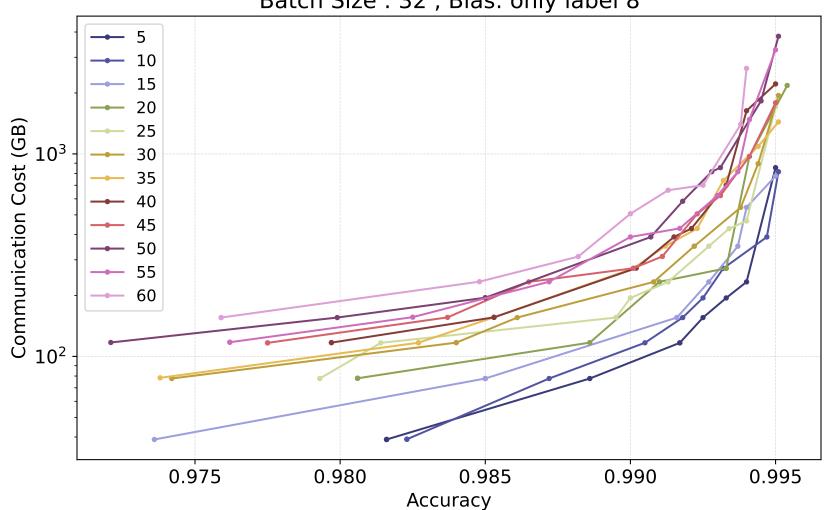


sketch

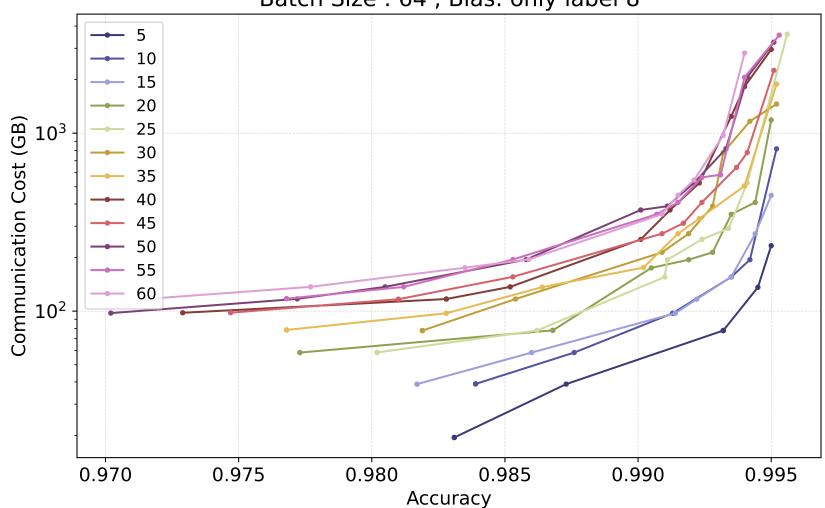
Theta: 100.0, Batch Size: 32, Bias: nan



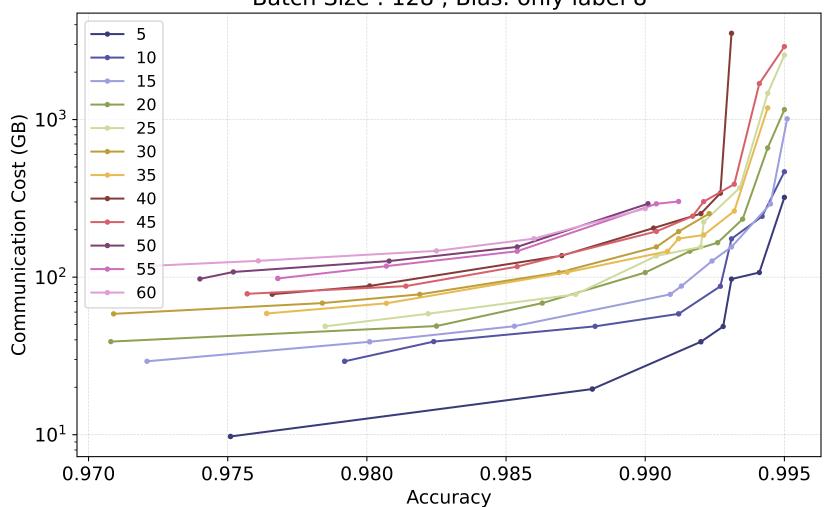
Batch Size: 32, Bias: only label 8



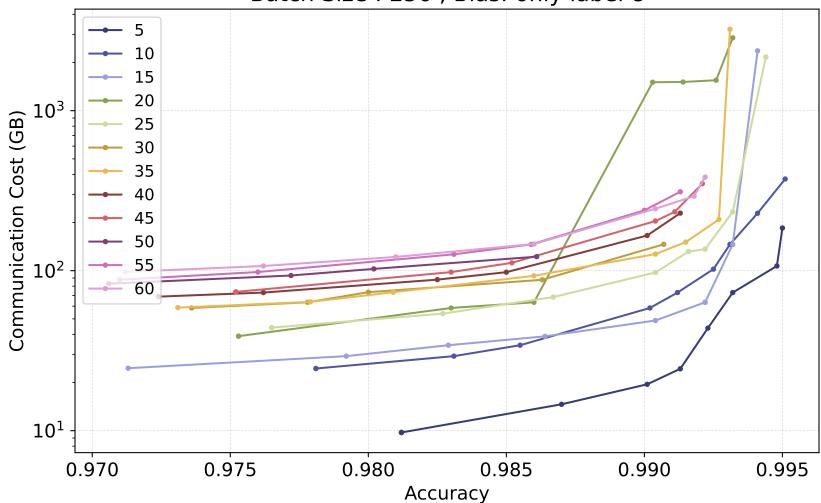
Batch Size: 64, Bias: only label 8



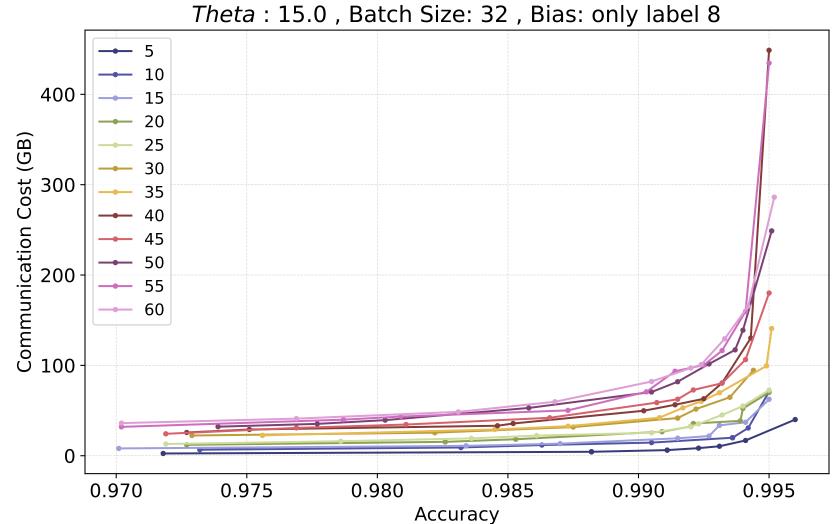
Batch Size: 128, Bias: only label 8



Batch Size: 256, Bias: only label 8

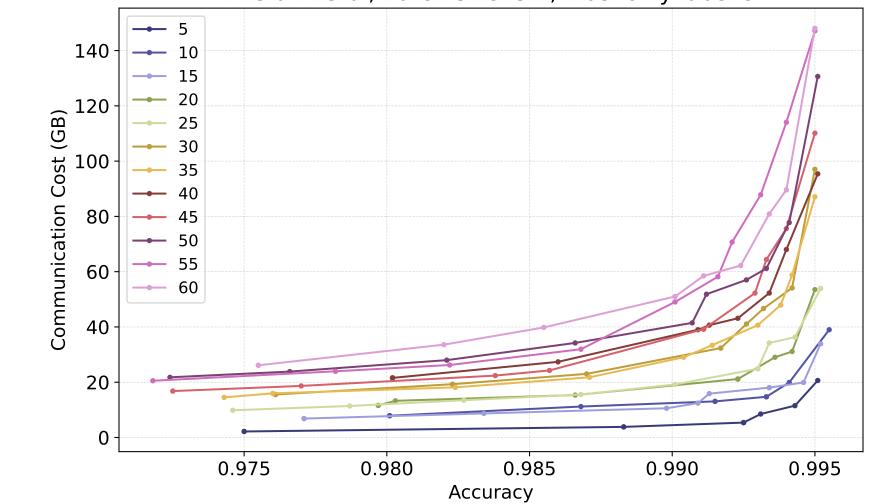


gm

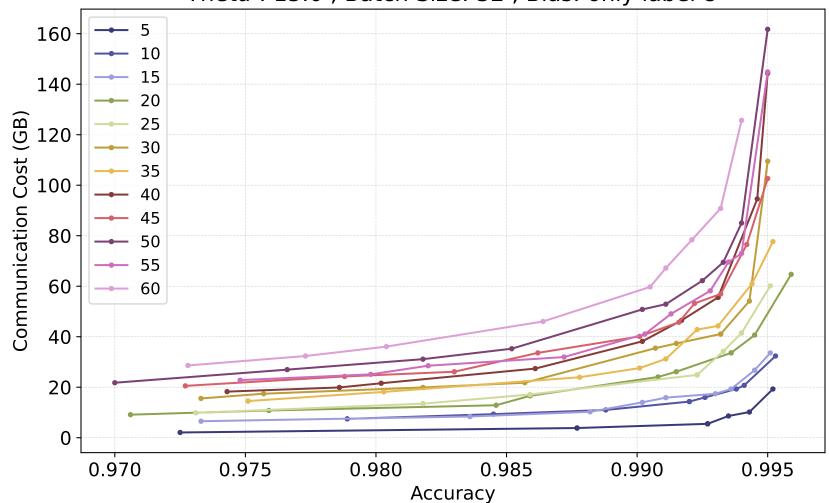


naive



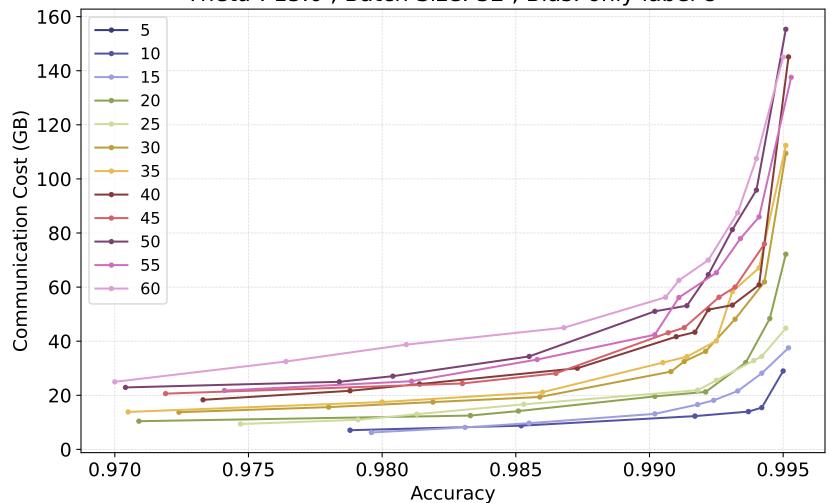


linear
Theta: 15.0, Batch Size: 32, Bias: only label 8

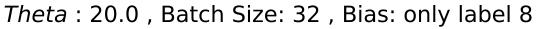


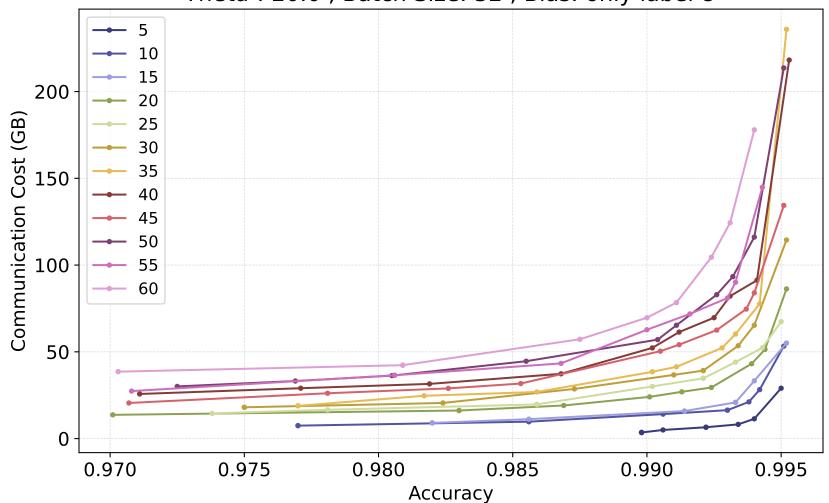
sketch

Theta: 15.0, Batch Size: 32, Bias: only label 8



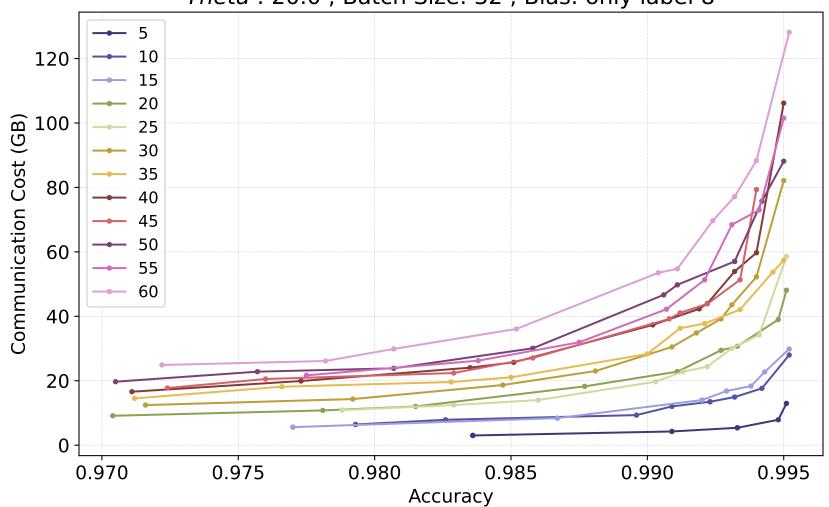
gm



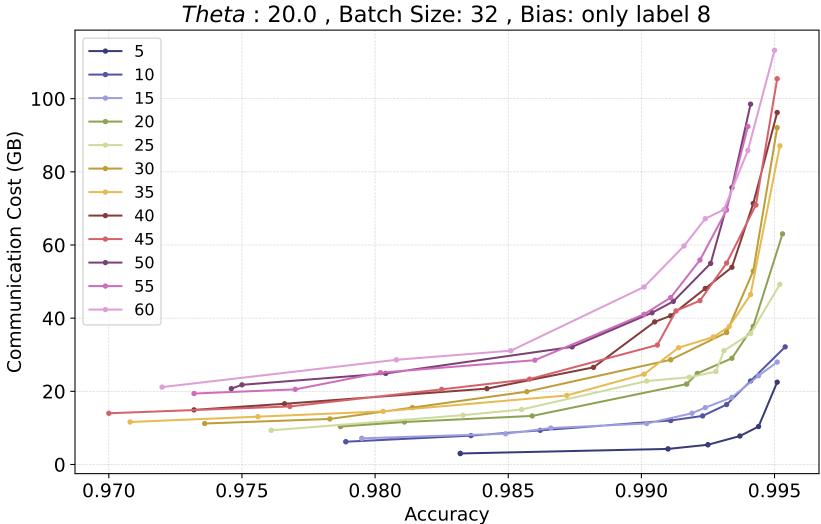


naive

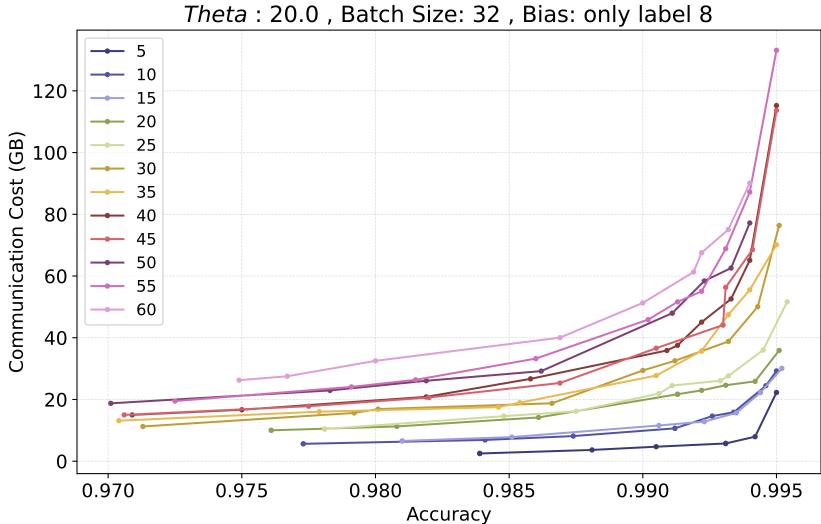




linear
Thota : 20.0 Patch Size: 32 Piace

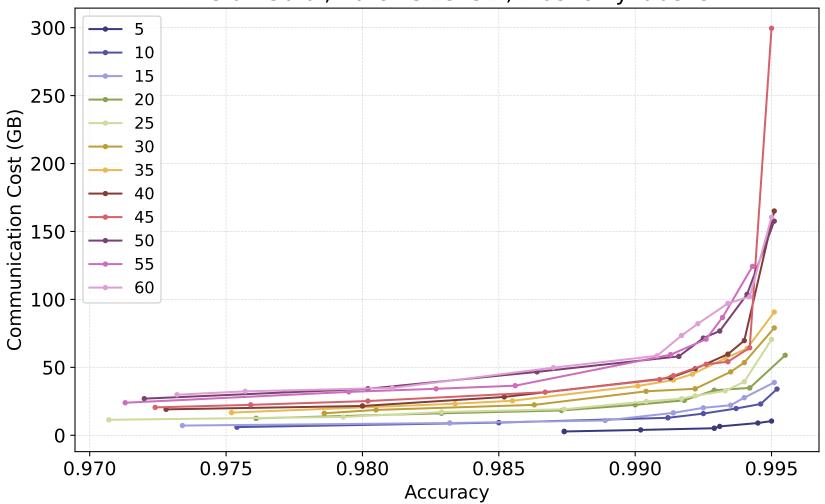


sketch



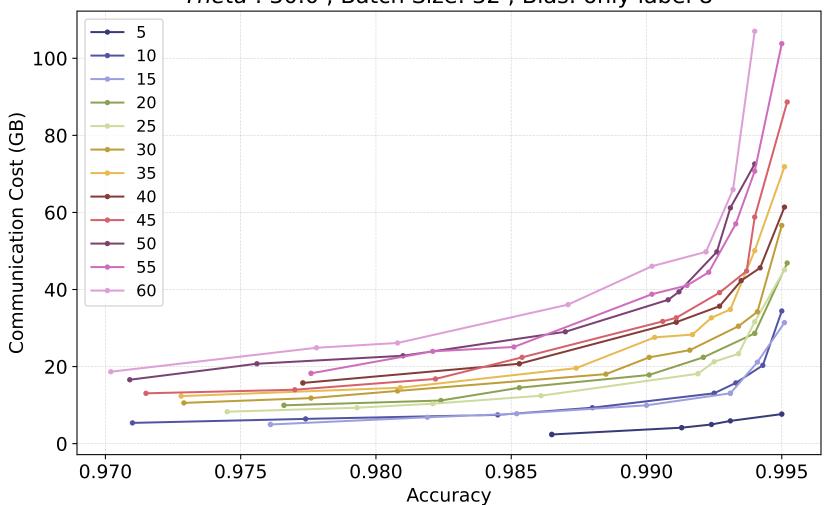
gm





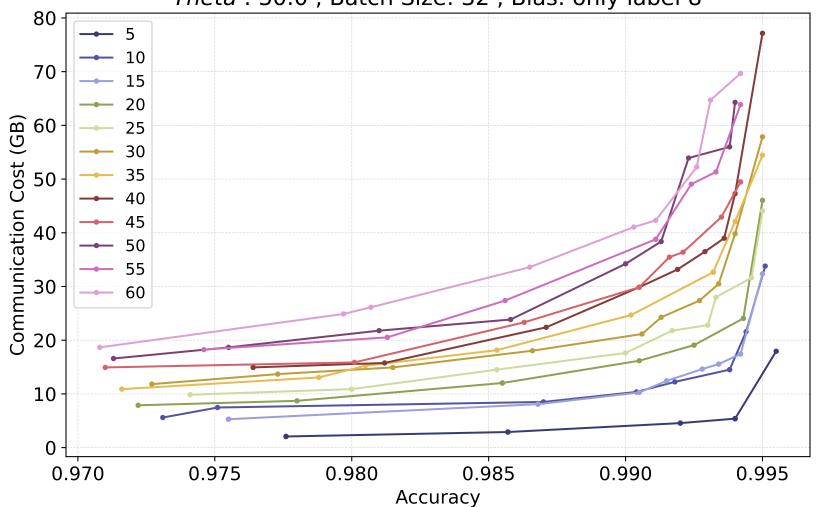
naive

Theta: 30.0, Batch Size: 32, Bias: only label 8



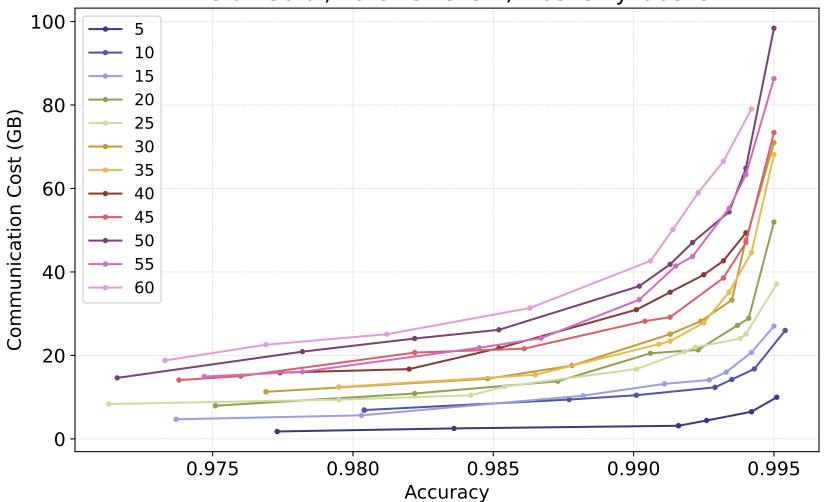
linear



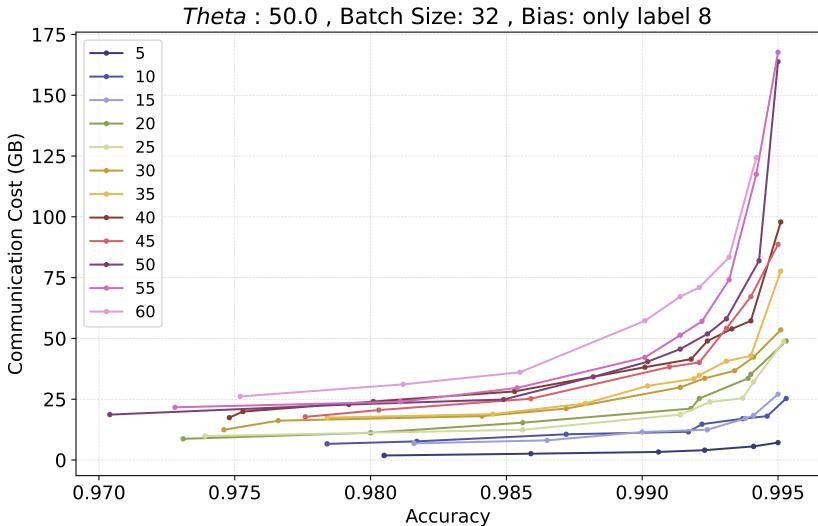


sketch

Theta: 30.0, Batch Size: 32, Bias: only label 8

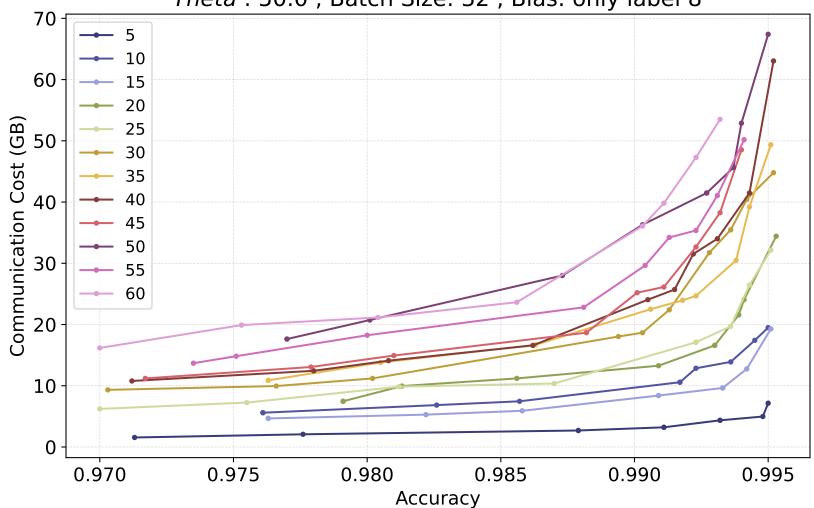


gm

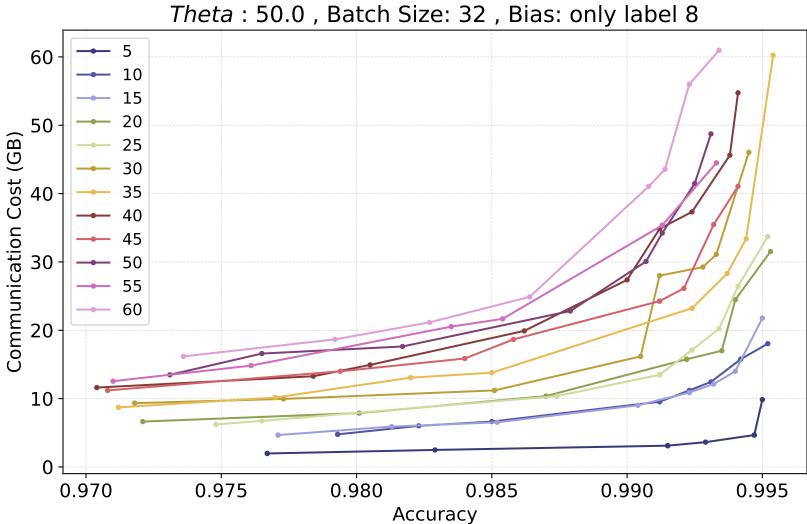


naive

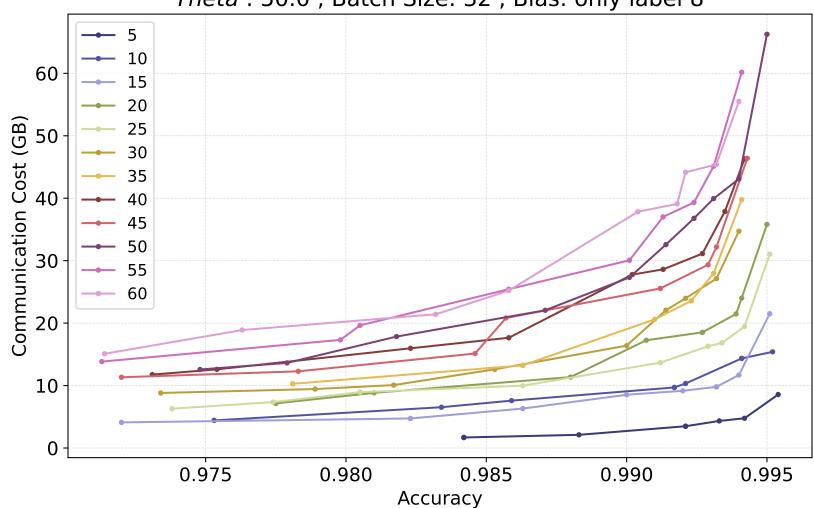




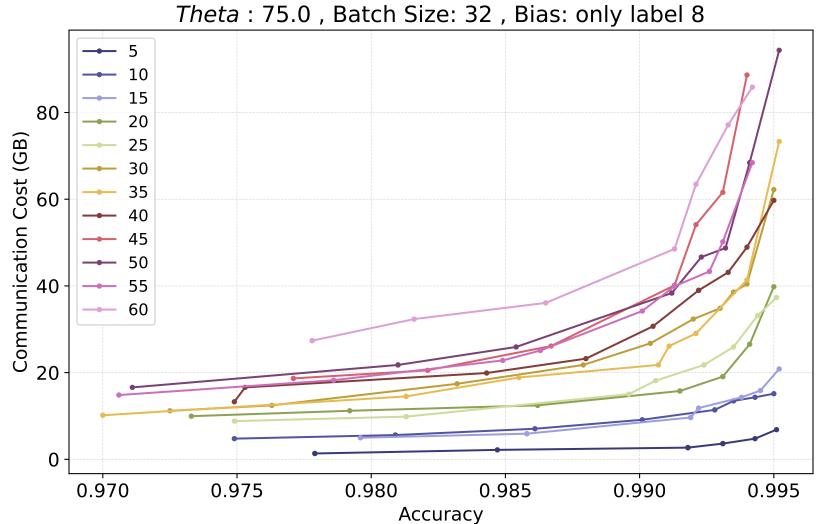
linear



sketch *Theta*: 50.0, Batch Size: 32, Bias: only label 8

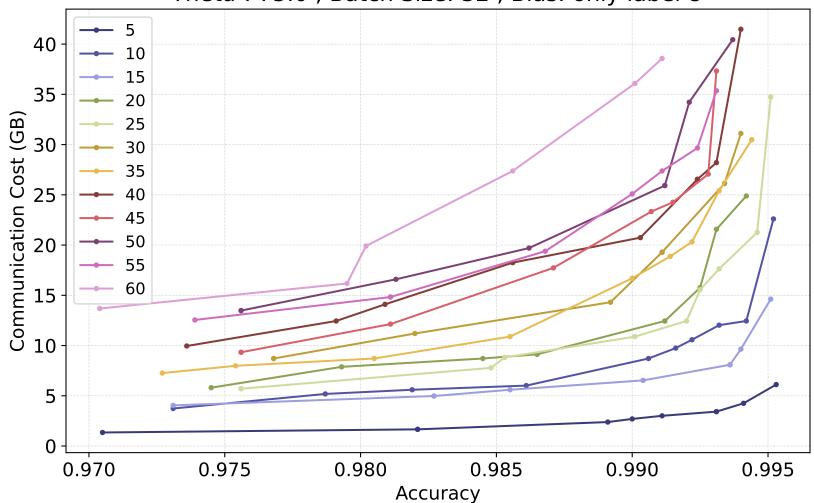


gm

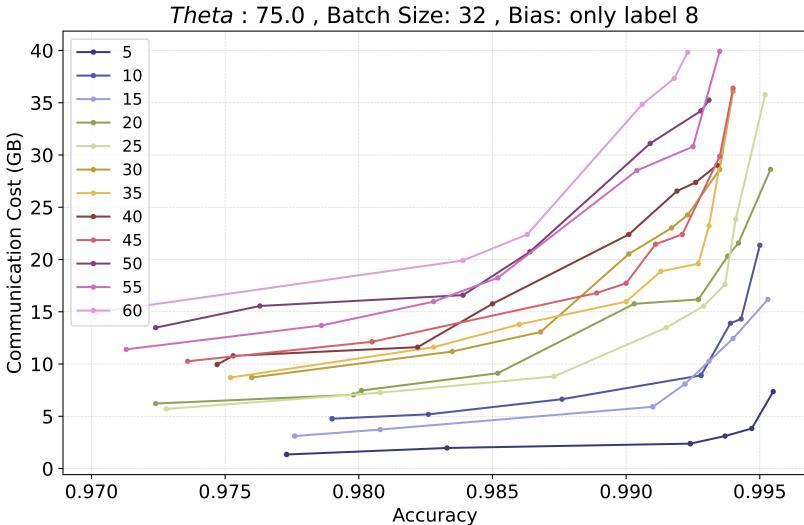


naive

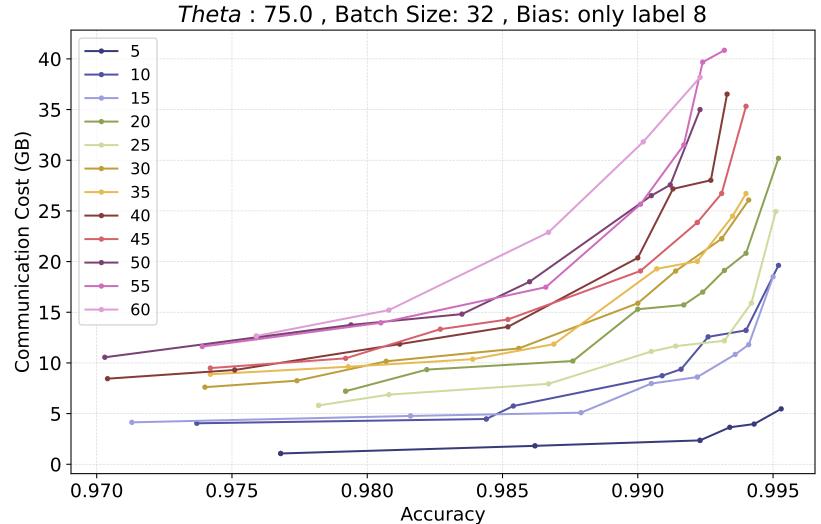
Theta: 75.0, Batch Size: 32, Bias: only label 8



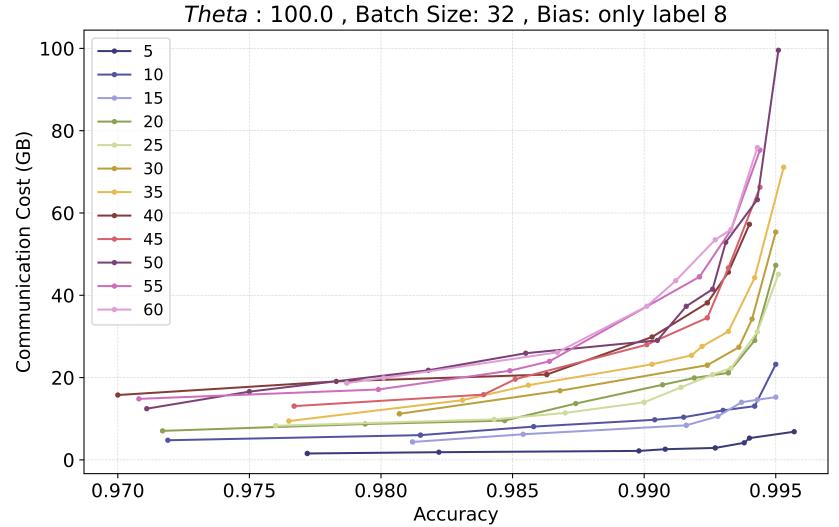
linear



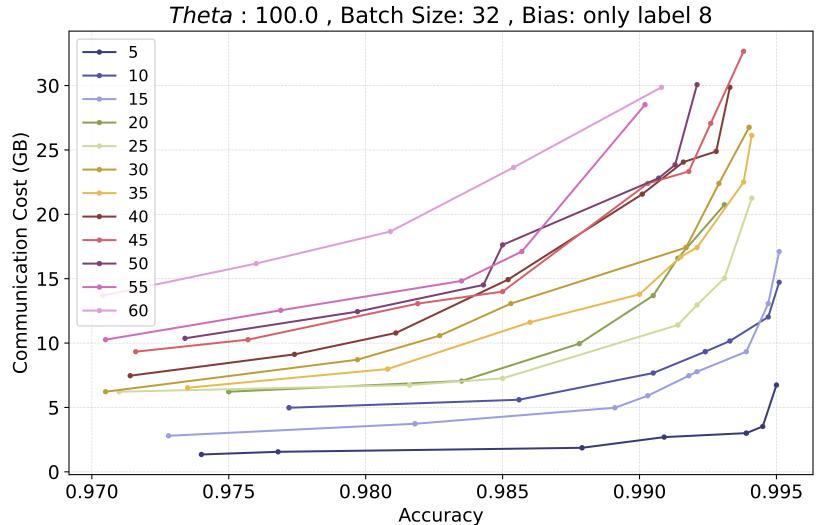
sketch



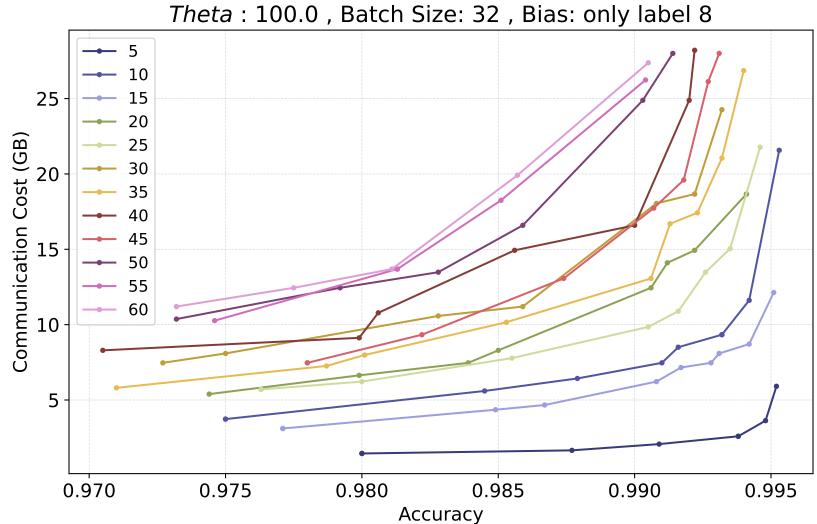
gm



naive

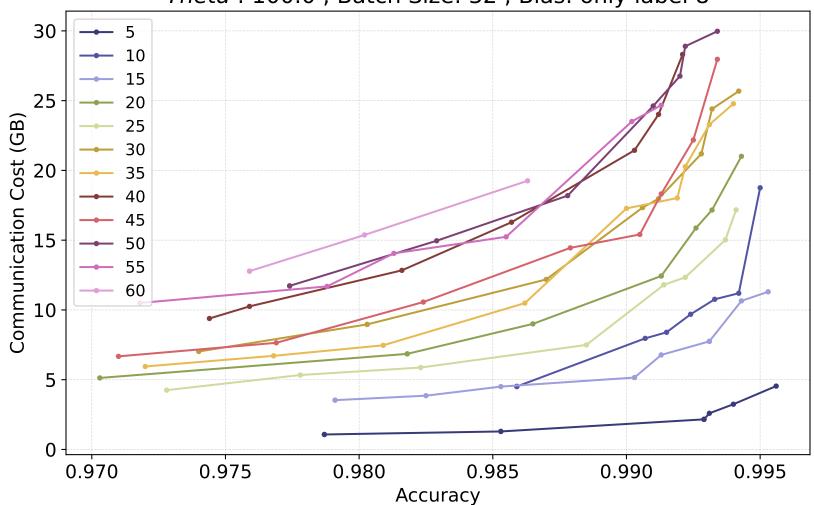


linear



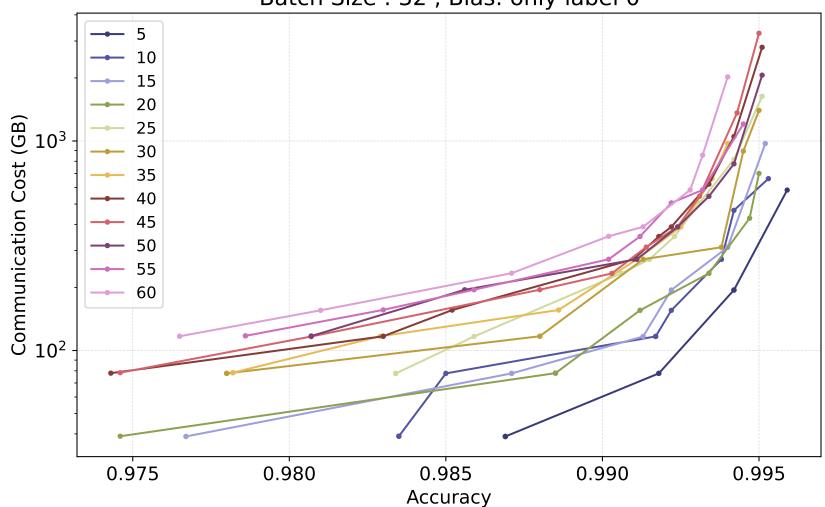
sketch

Theta: 100.0, Batch Size: 32, Bias: only label 8



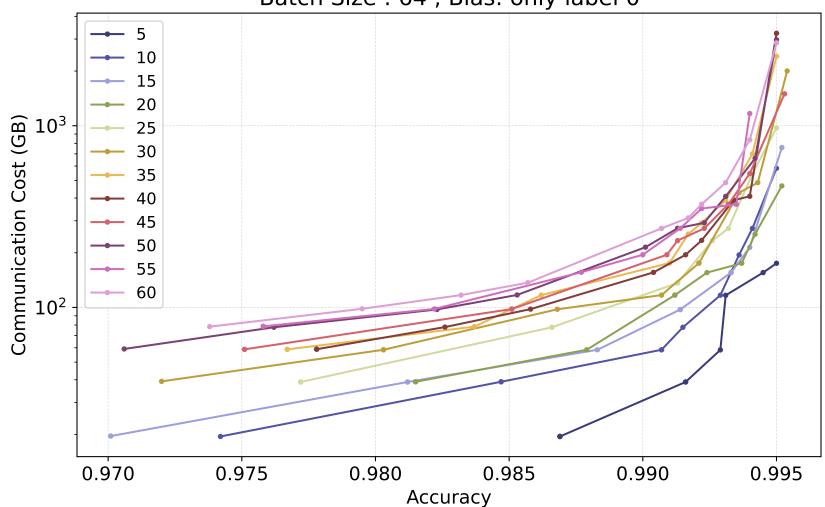
synchronous

Batch Size: 32, Bias: only label 0



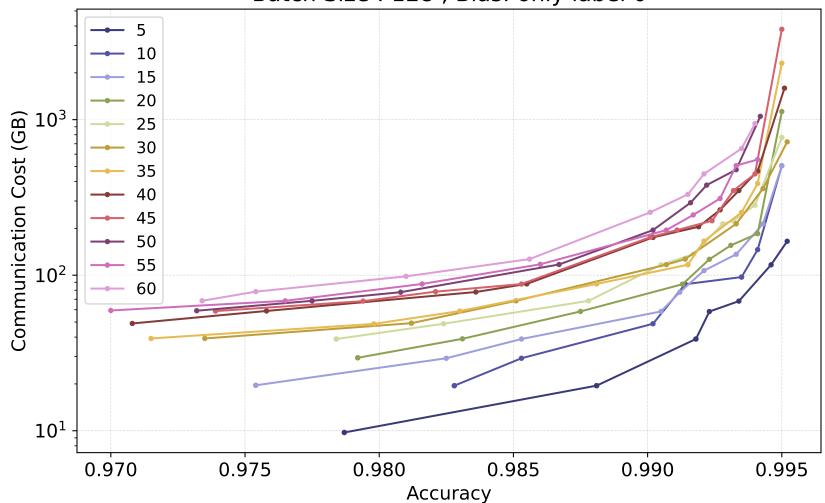
synchronous

Batch Size: 64, Bias: only label 0



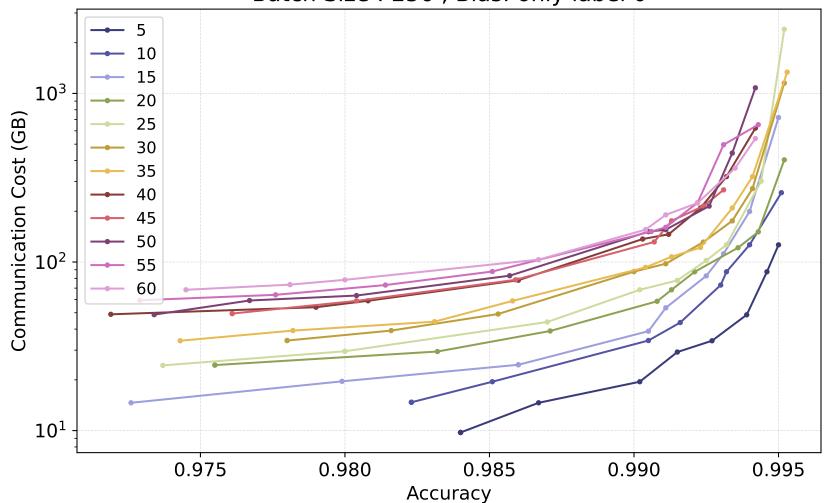
synchronous

Batch Size: 128, Bias: only label 0



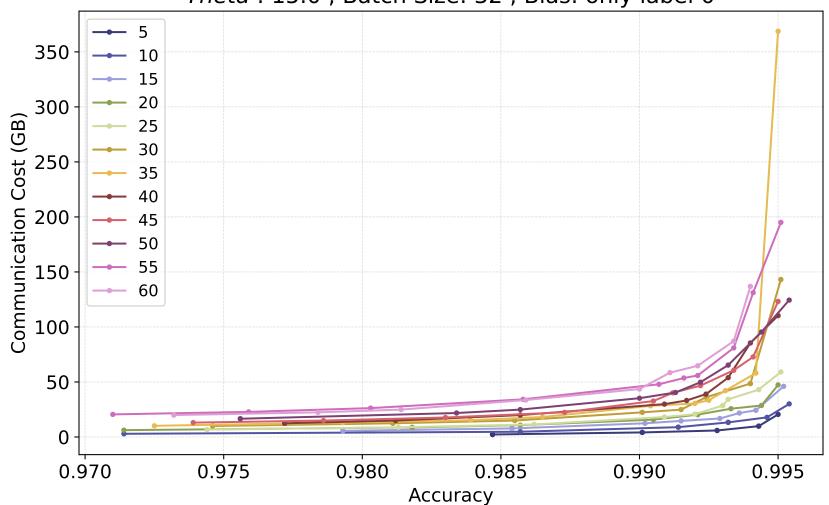
synchronous

Batch Size: 256, Bias: only label 0



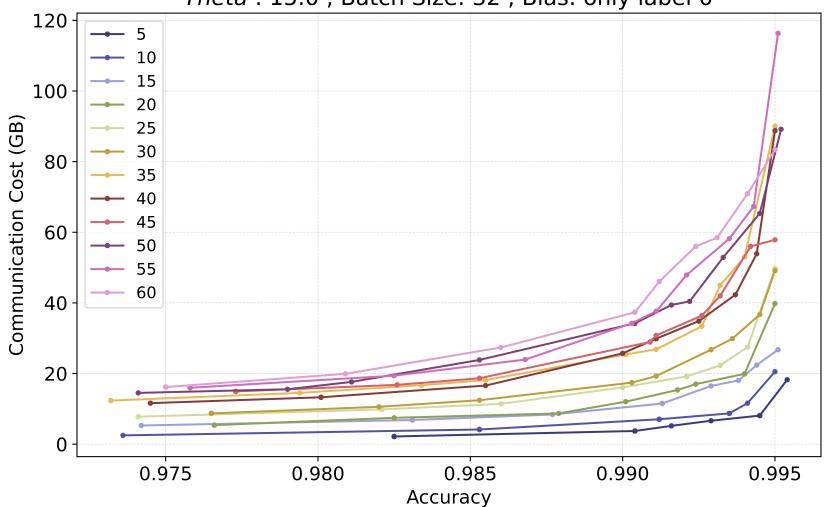
gm



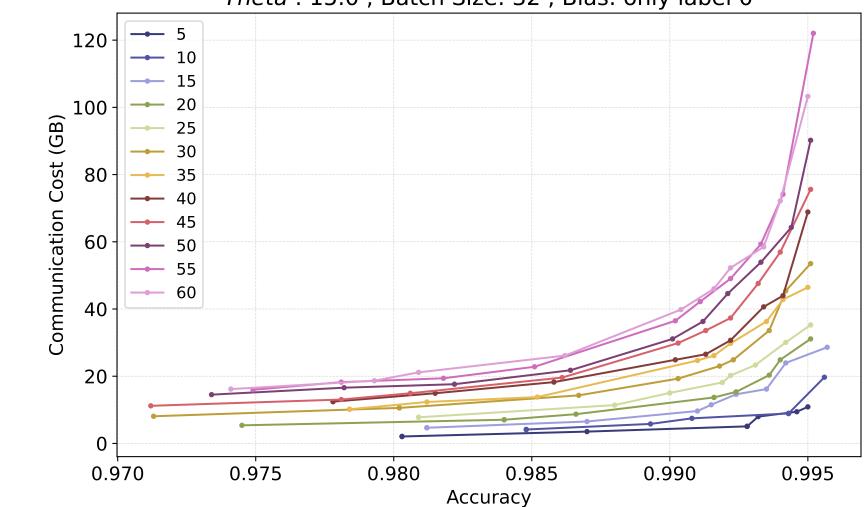


naive

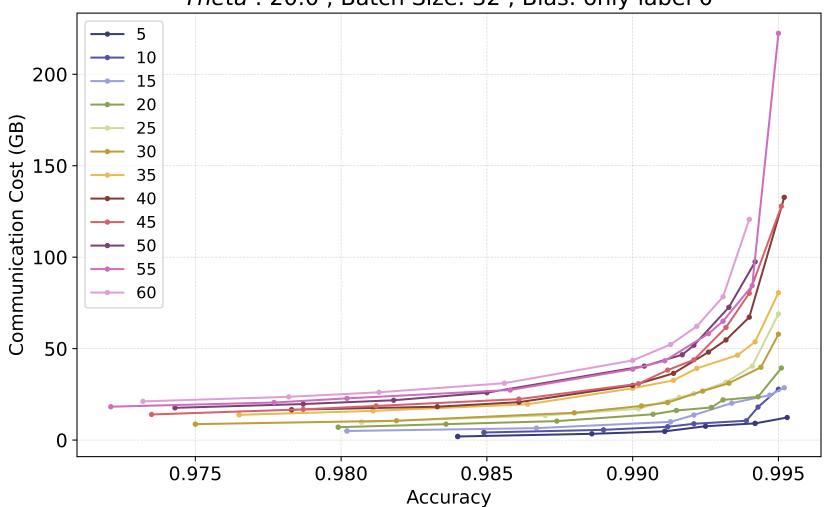
Theta: 15.0, Batch Size: 32, Bias: only label 0



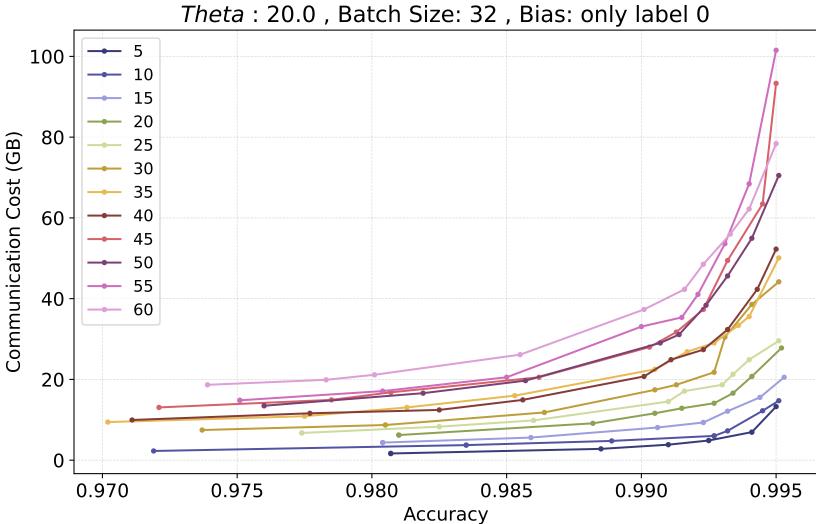
linear
Theta: 15.0, Batch Size: 32, Bias: only label 0



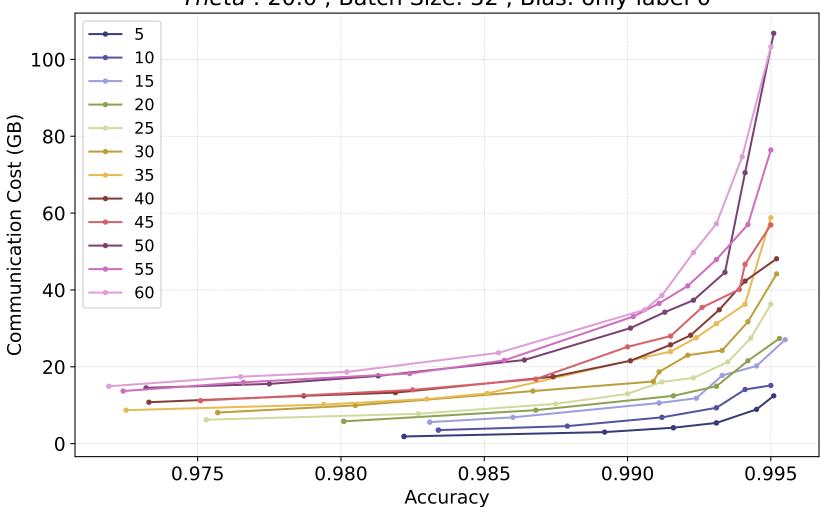
gm *Theta*: 20.0, Batch Size: 32, Bias: only label 0



naive

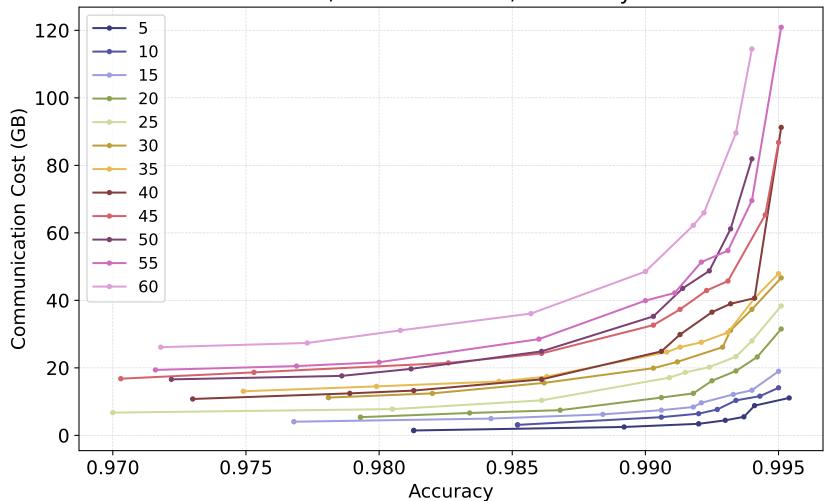


linear
Theta: 20.0, Batch Size: 32, Bias: only label 0

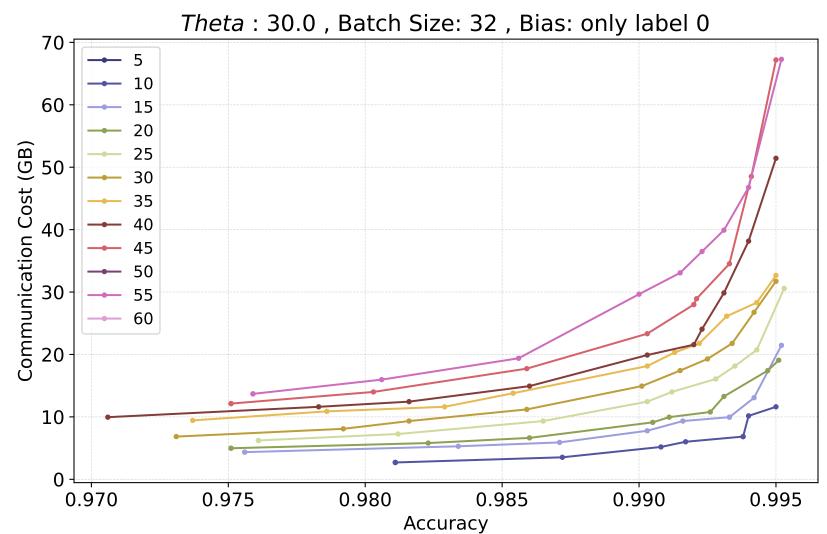


gm

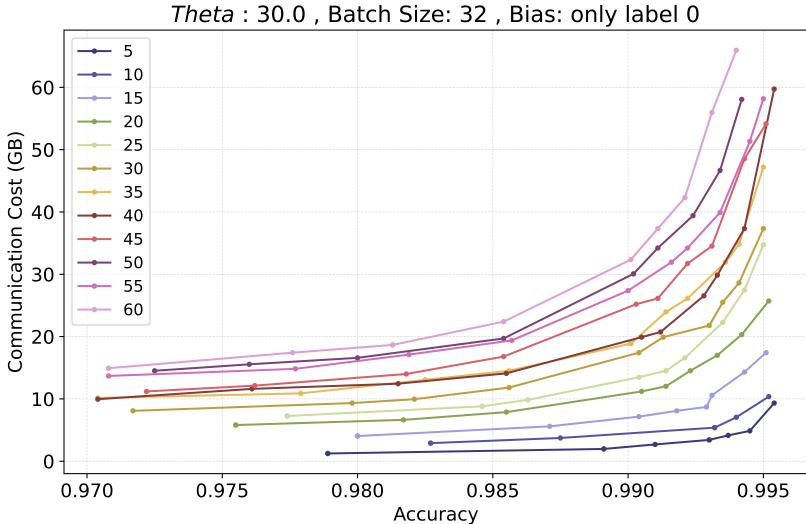
Theta: 30.0, Batch Size: 32, Bias: only label 0



naive

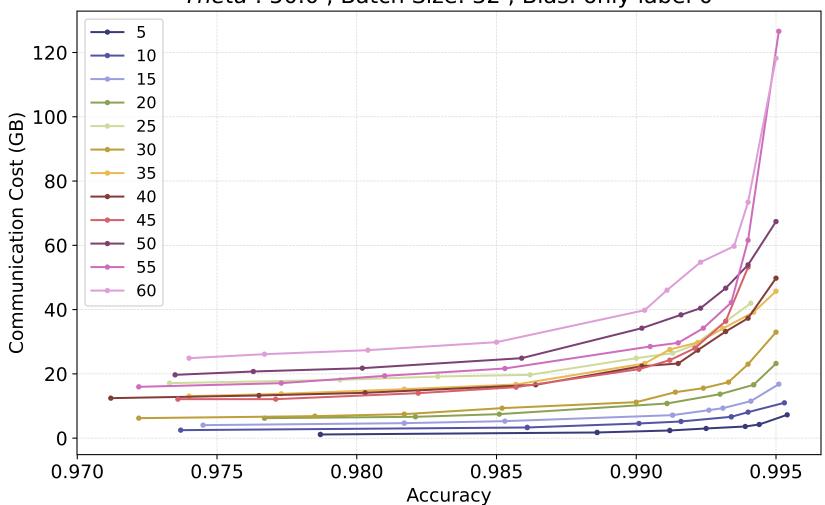


linear

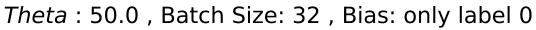


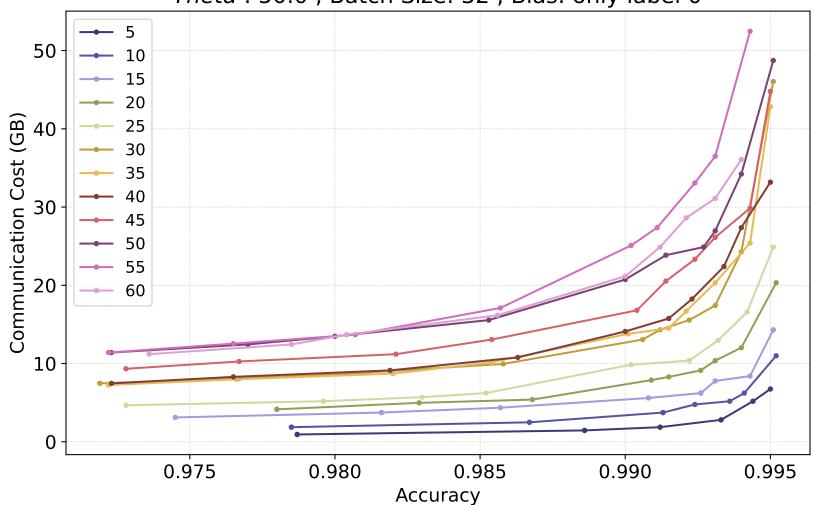
gm



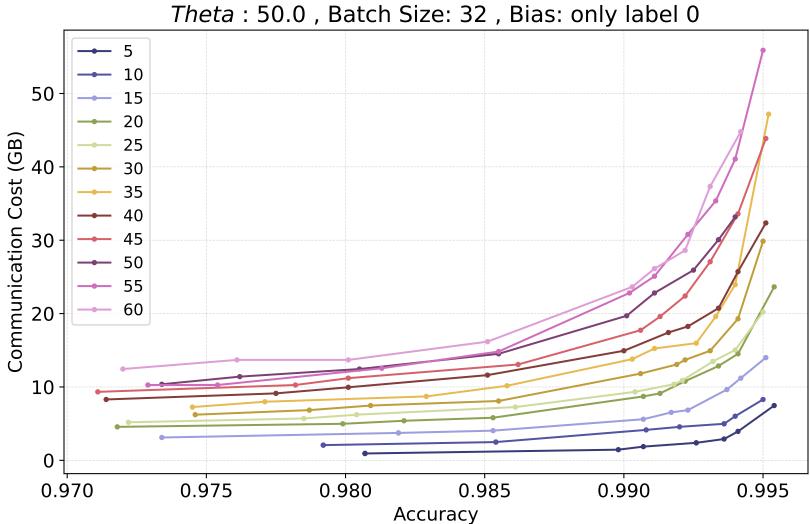


naive

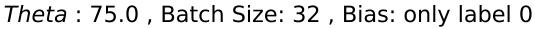


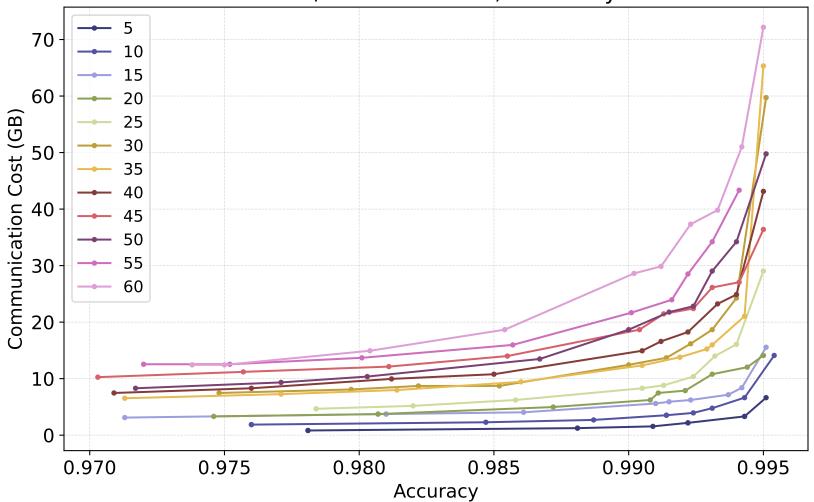


linear



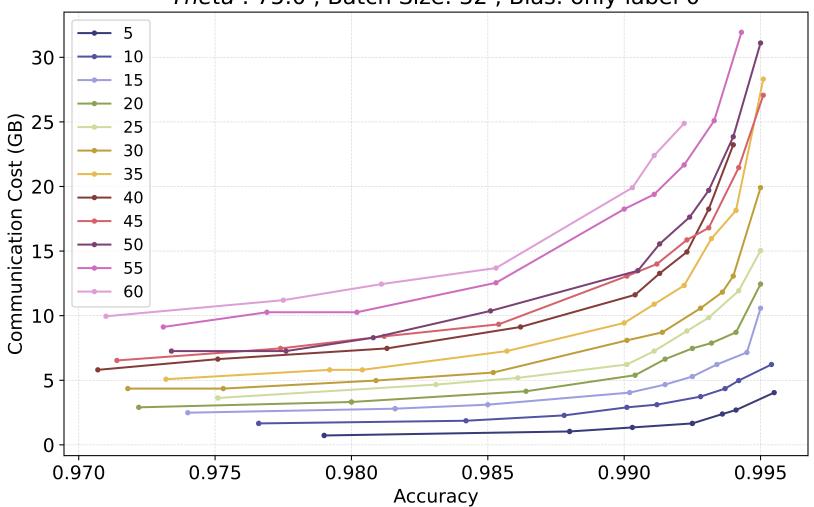
gm



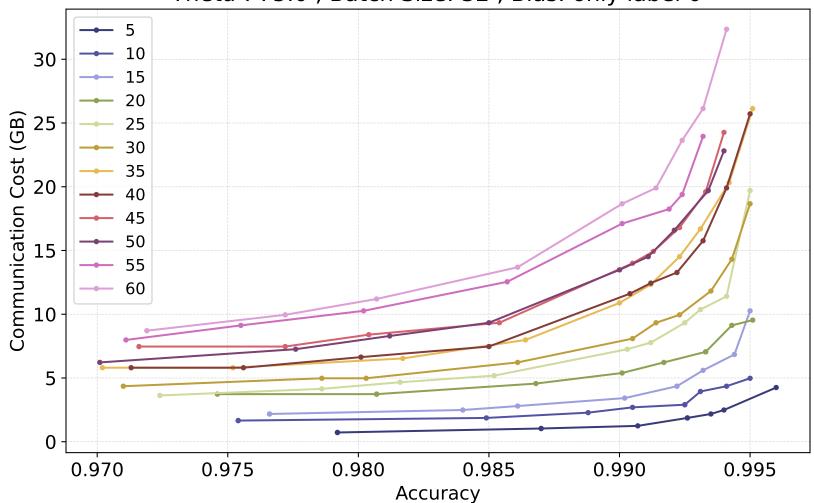


naive

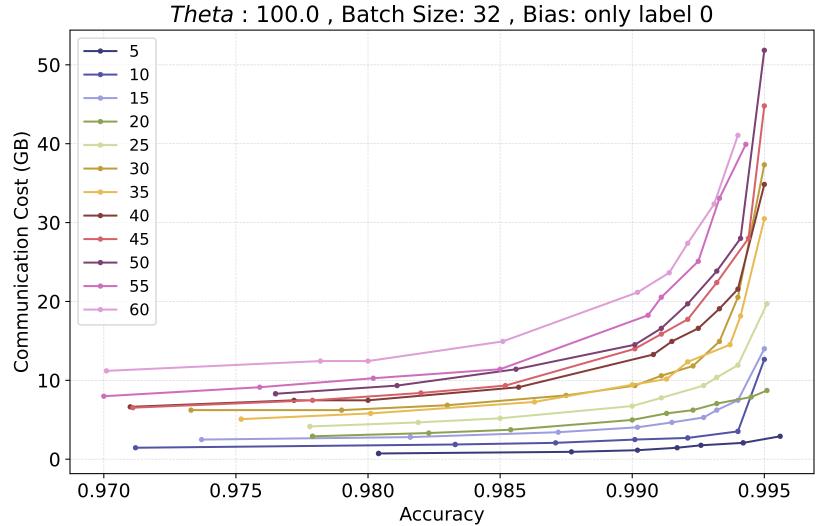




linear
Theta: 75.0, Batch Size: 32, Bias: only label 0

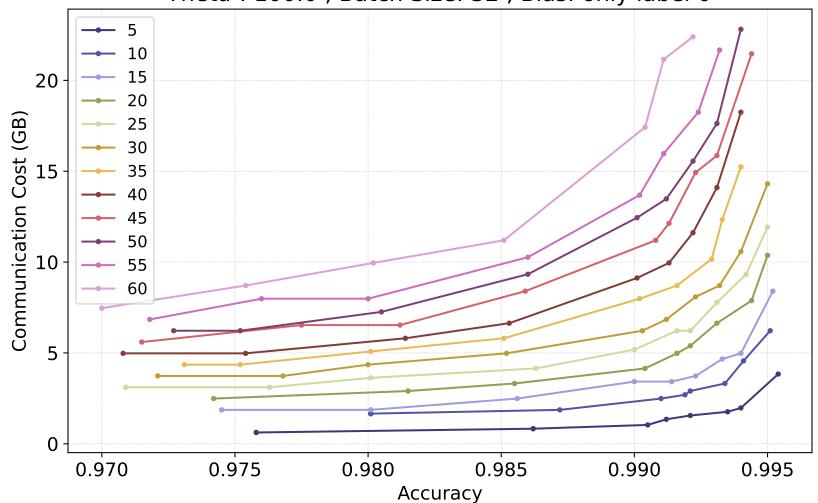


gm

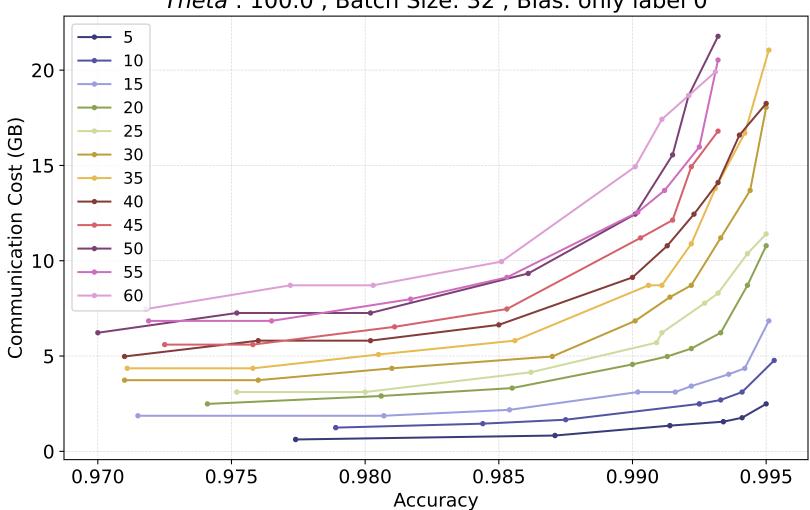


naive



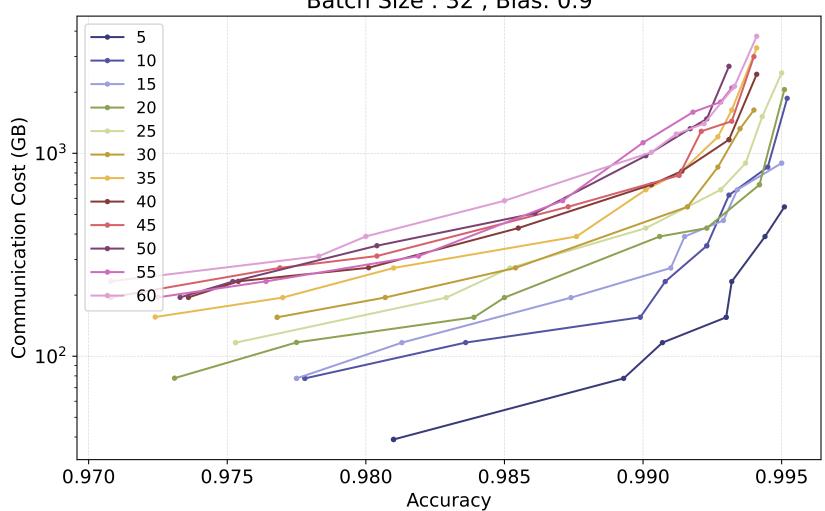


linear
Theta: 100.0, Batch Size: 32, Bias: only label 0



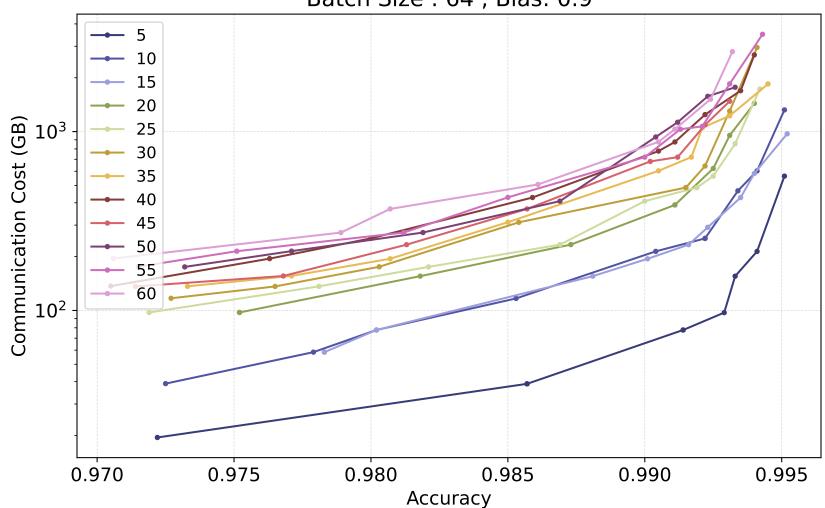
synchronous

Batch Size: 32, Bias: 0.9



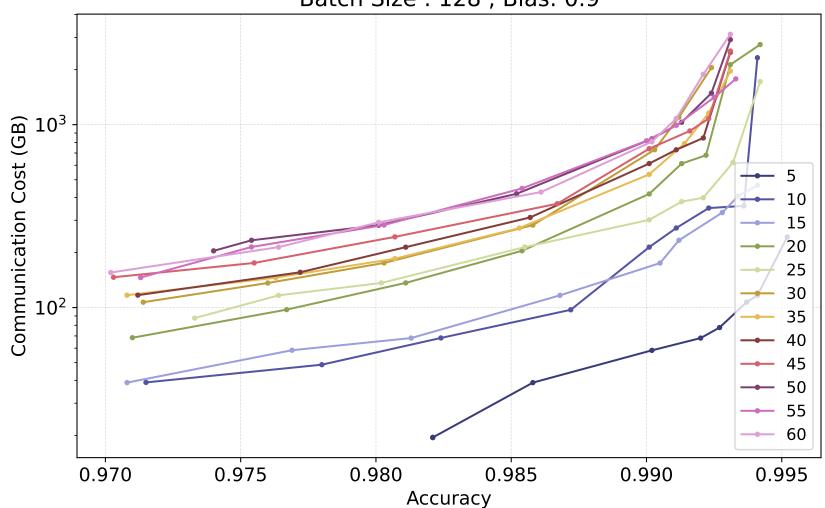
synchronous

Batch Size: 64, Bias: 0.9



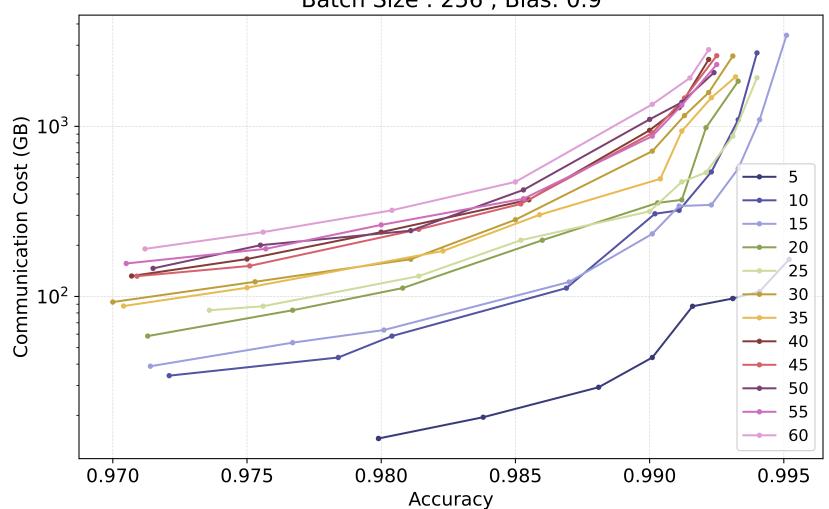
synchronous

Batch Size: 128, Bias: 0.9



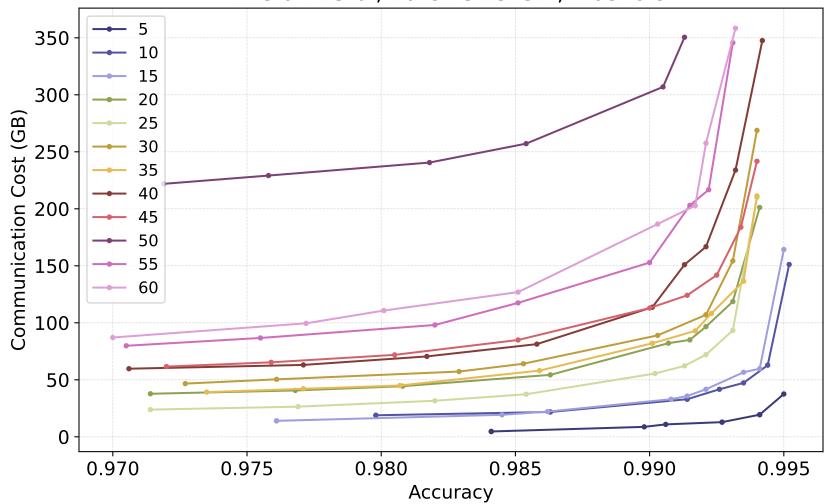
synchronous

Batch Size: 256, Bias: 0.9



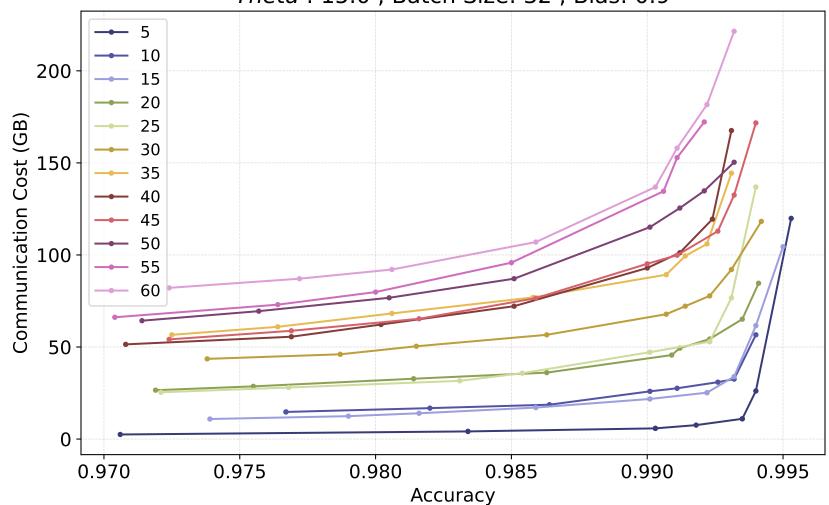
gm





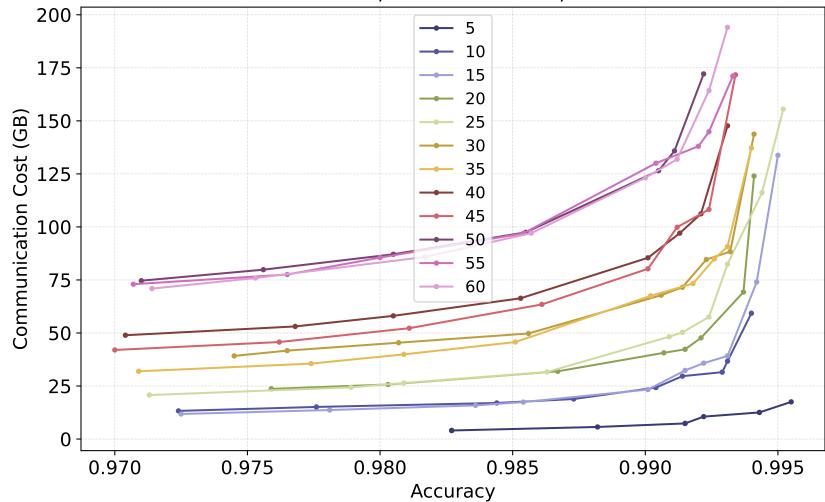
naive





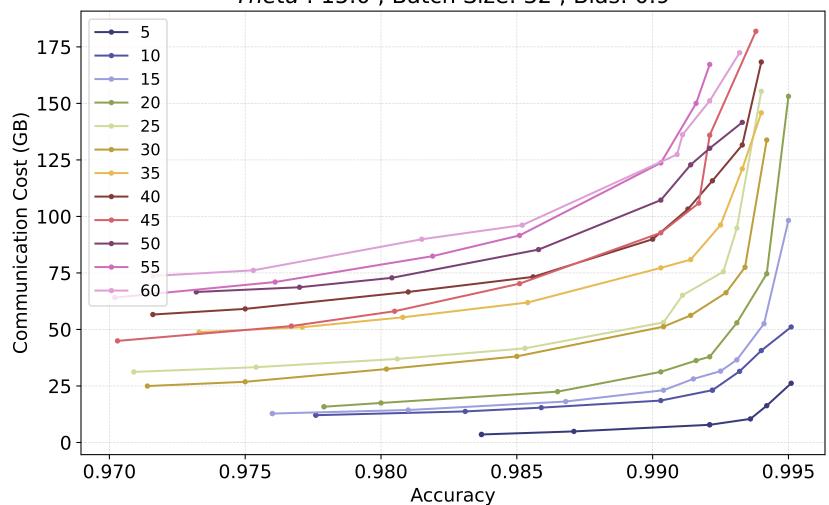
linear

Theta: 15.0, Batch Size: 32, Bias: 0.9

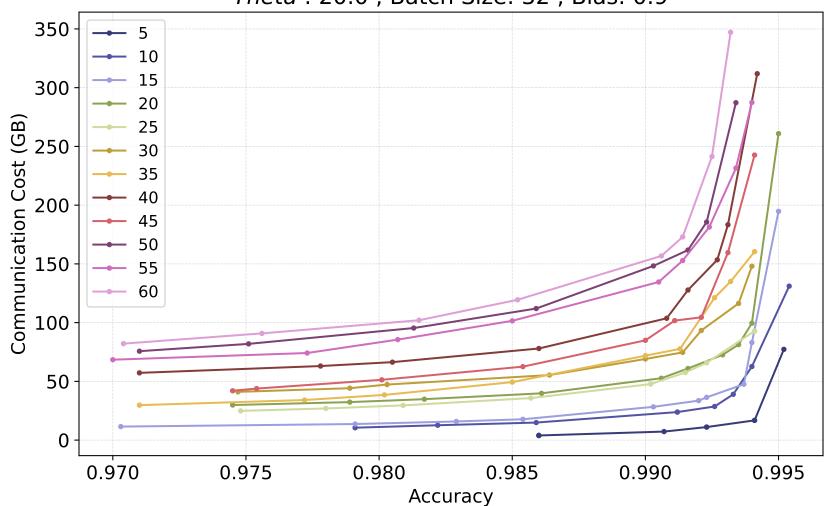


sketch



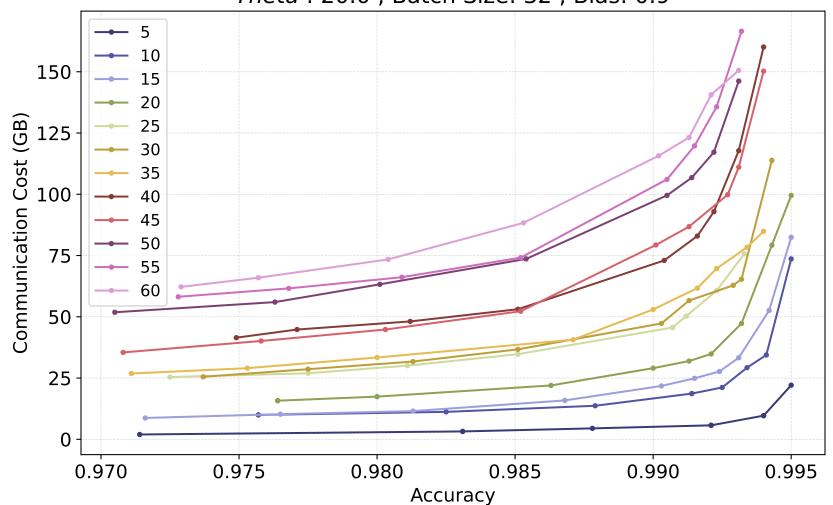


gm
Theta: 20.0, Batch Size: 32, Bias: 0.9

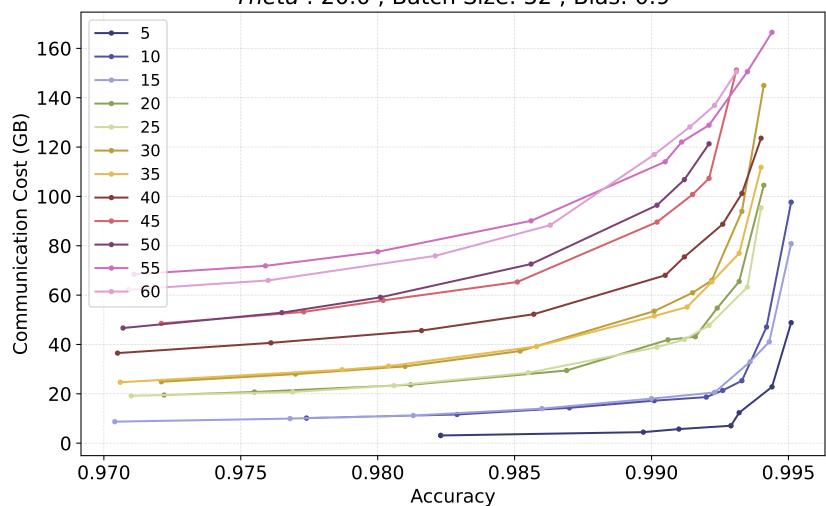


naive

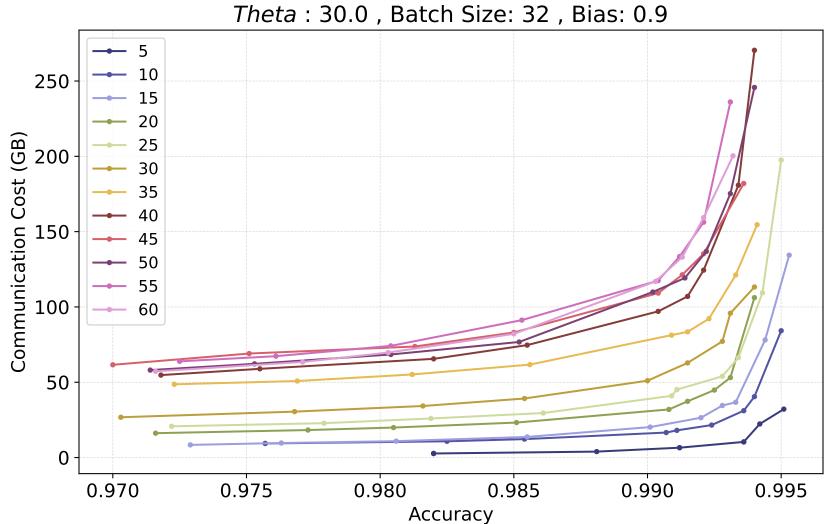




linear
Theta: 20.0, Batch Size: 32, Bias: 0.9

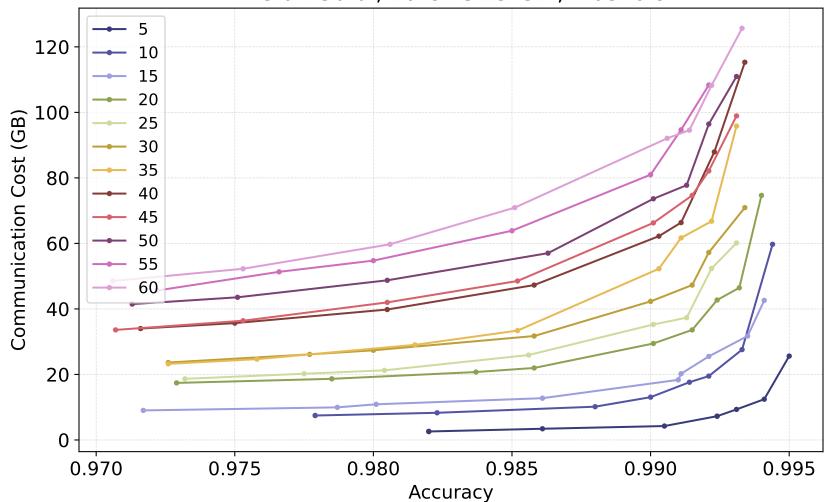


gm



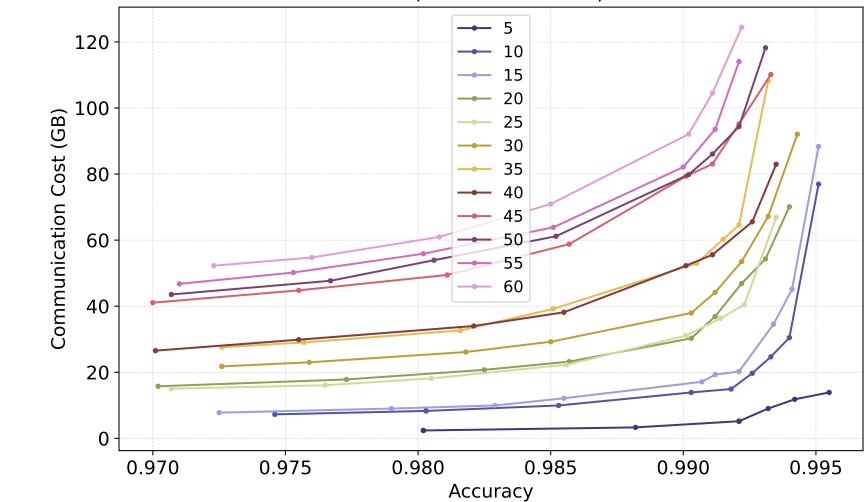
naive

Theta: 30.0, Batch Size: 32, Bias: 0.9



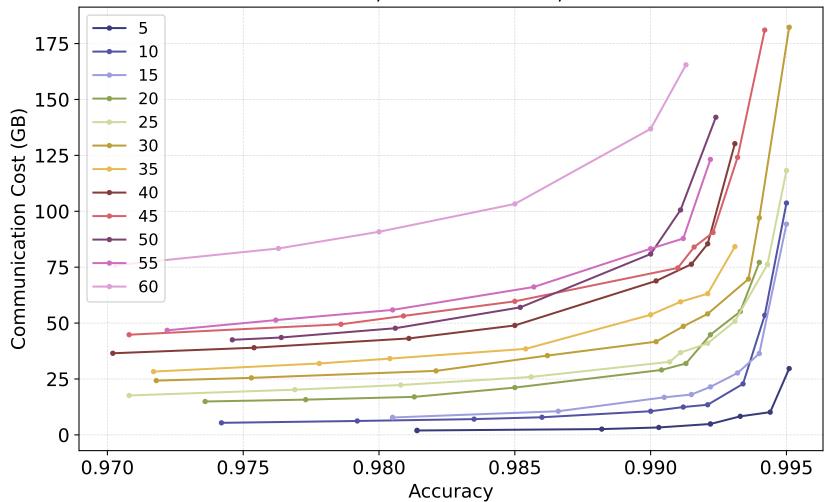
linear

Theta: 30.0, Batch Size: 32, Bias: 0.9

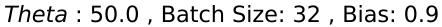


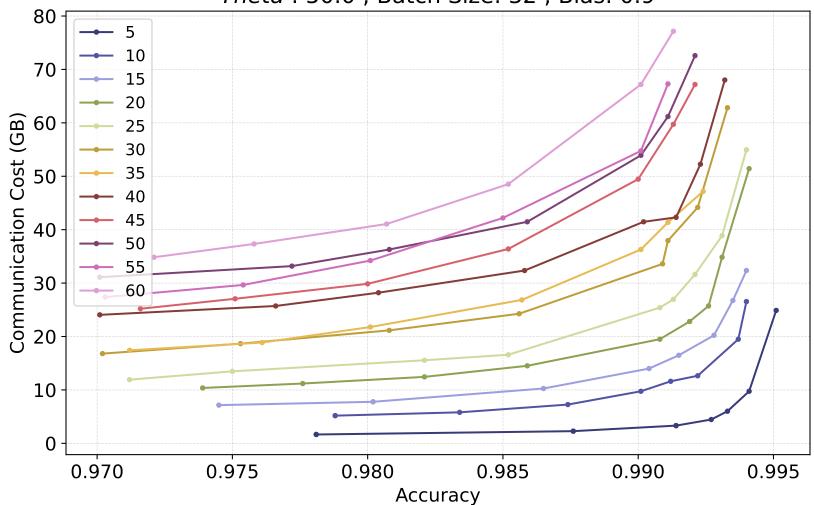
gm



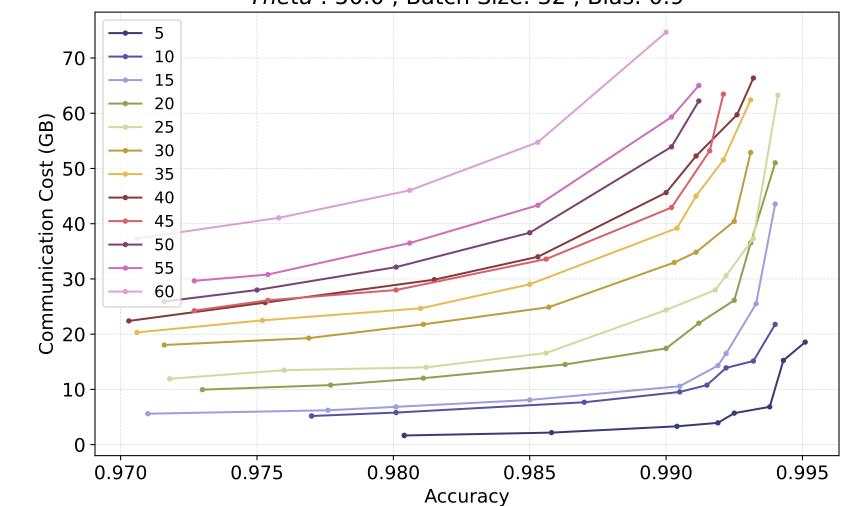


naive





linear
Theta: 50.0, Batch Size: 32, Bias: 0.9



gm Theta: 75.0, Batch Size: 32, Bias: 0.9 120 -Communication Cost (GB) 0.975 0.985 0.990 0.995 0.970 0.980 Accuracy

naive

0.980

50

40

30

20

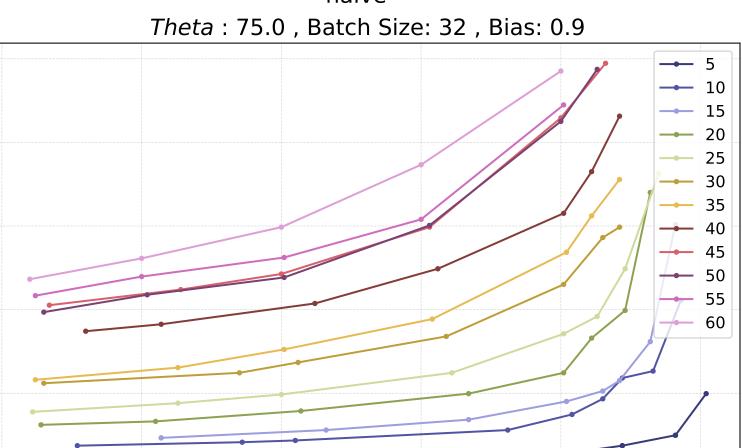
10

0

0.970

0.975

Communication Cost (GB)



0.985

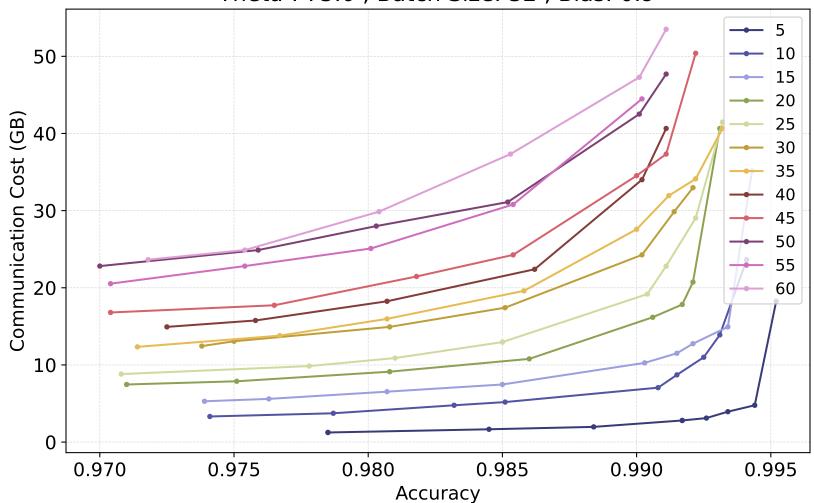
Accuracy

0.990

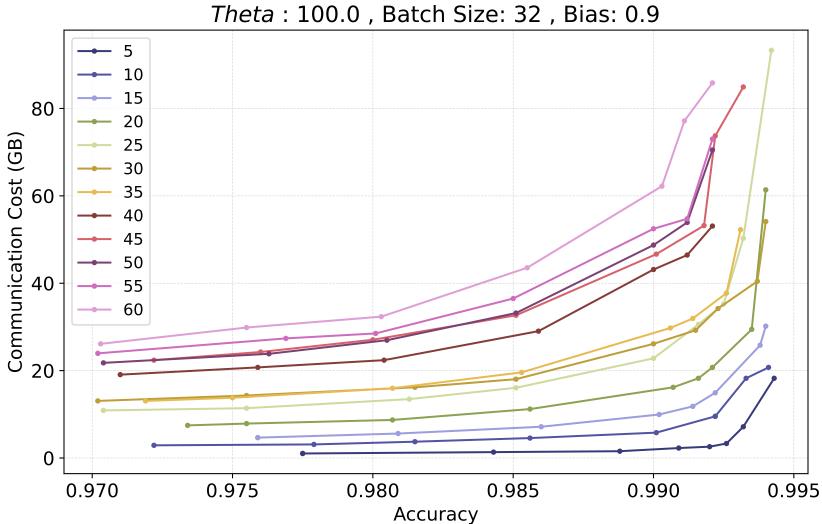
0.995

linear

Theta: 75.0, Batch Size: 32, Bias: 0.9

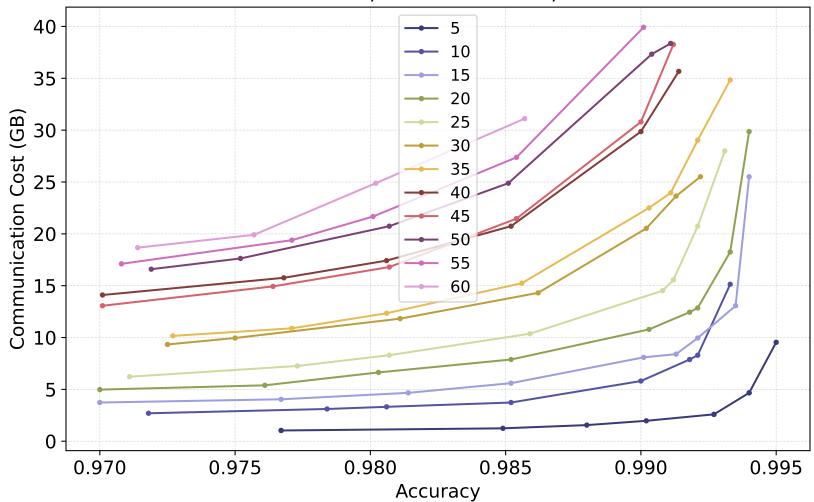


gm



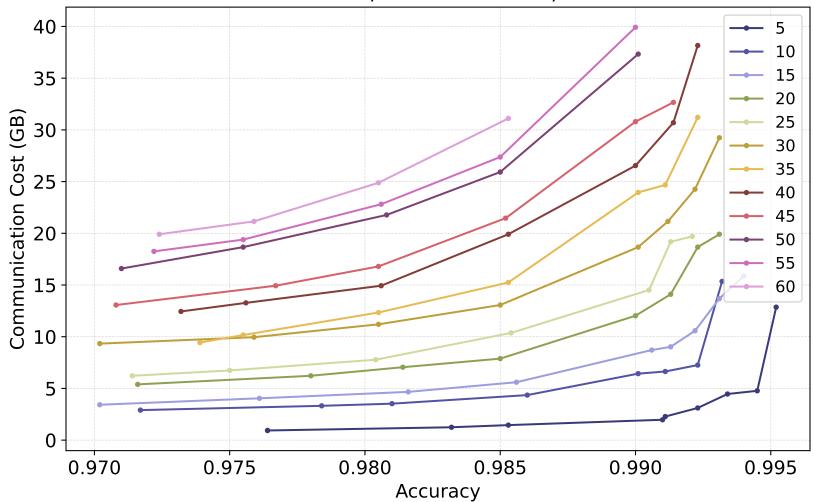
naive





linear

Theta: 100.0, Batch Size: 32, Bias: 0.9



sketch

Theta: 100.0, Batch Size: 32, Bias: 0.9

