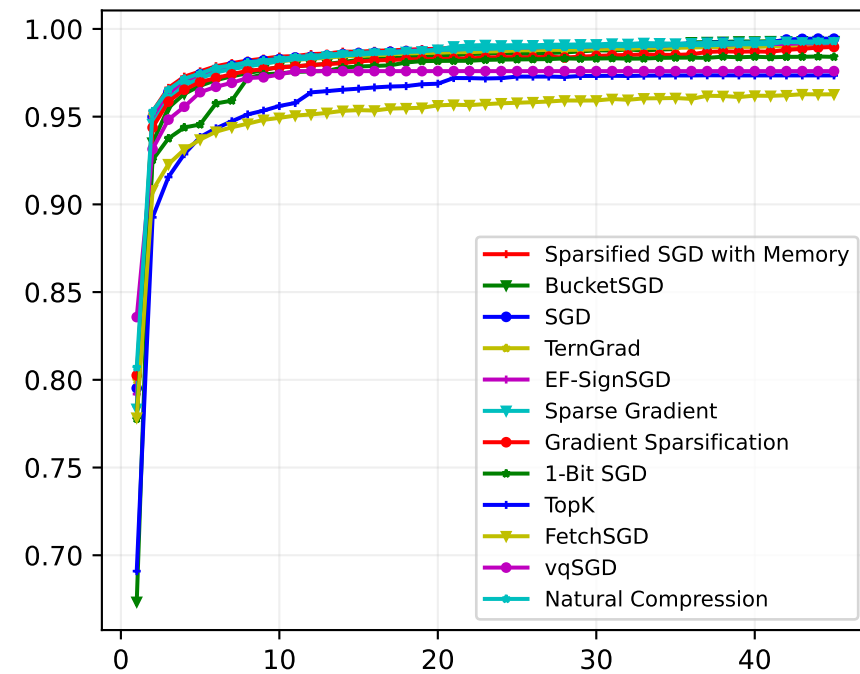
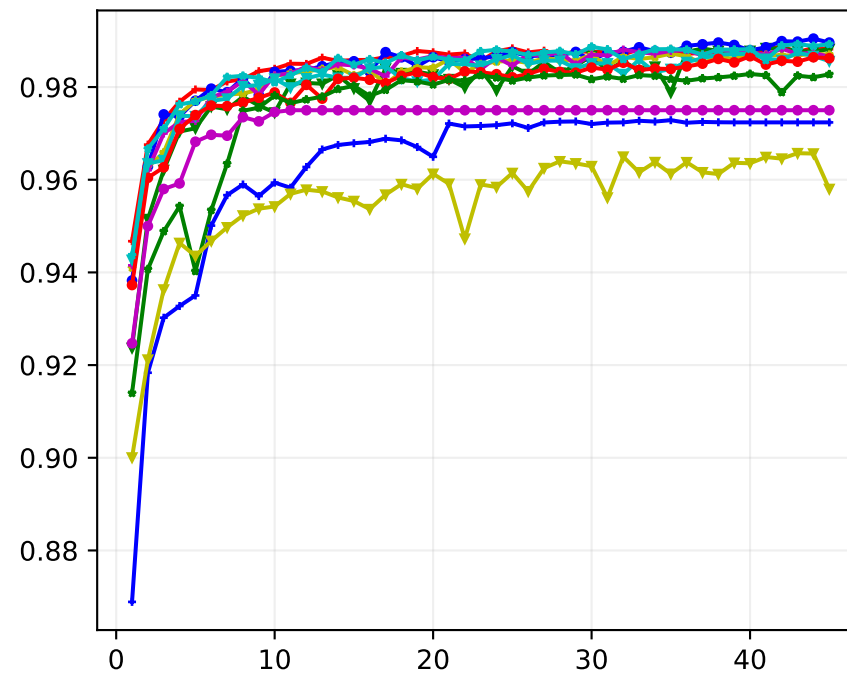


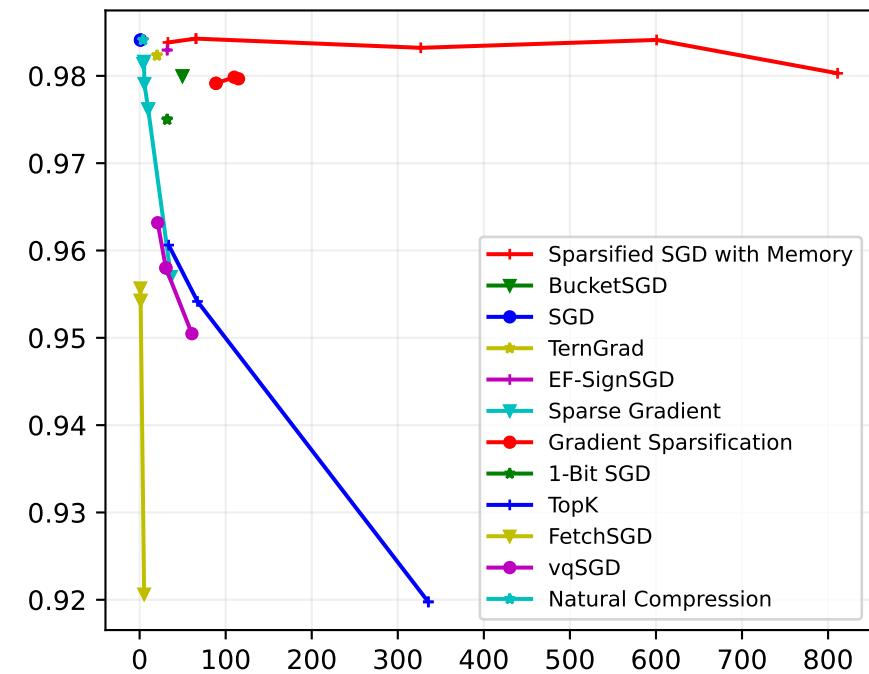
Training Accuracy



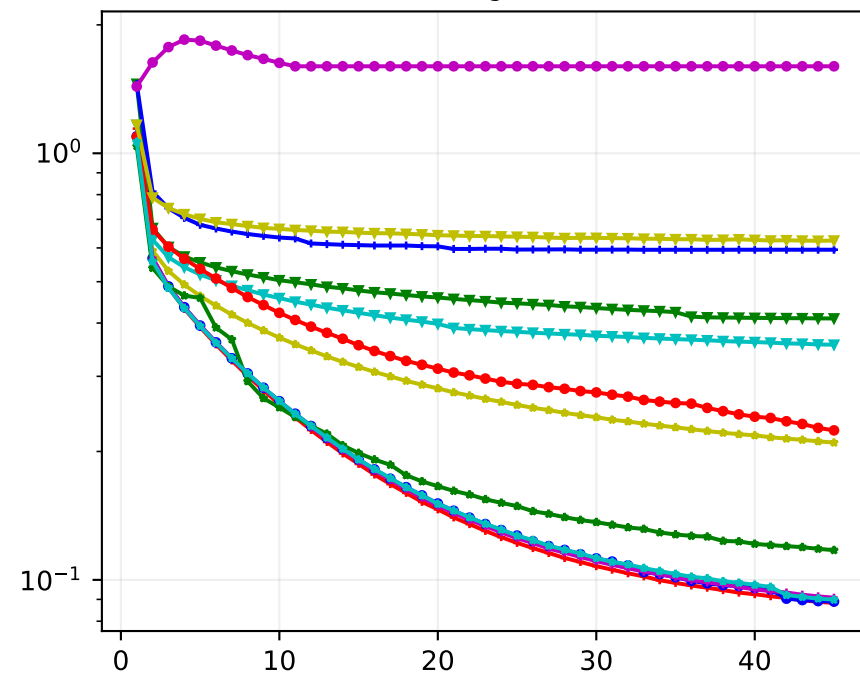
Test Accuracy



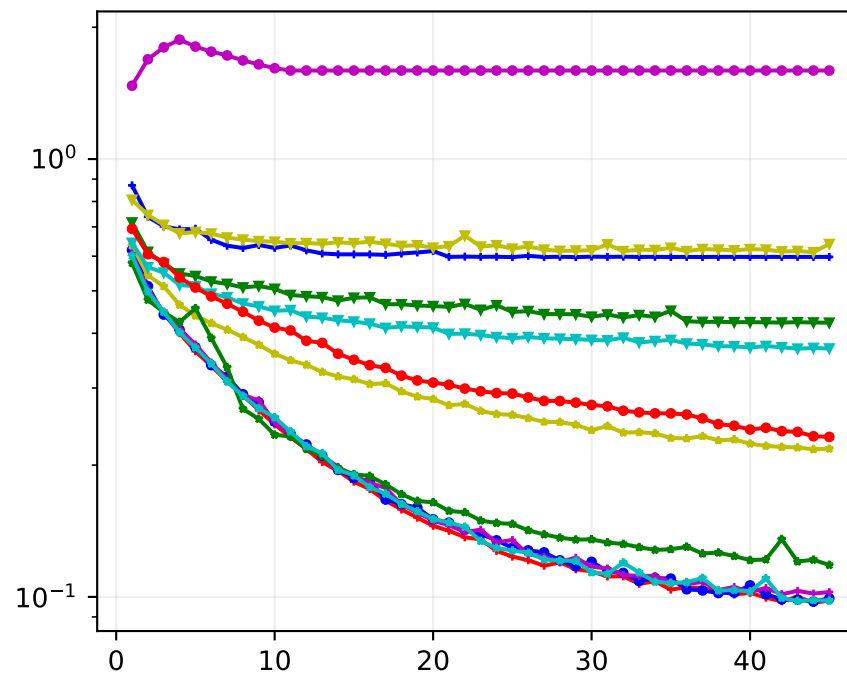
Validation Acc / Compression Rate



Training Loss



Test Loss



Method	Mean Val Acc	Compression Ratio
SGD	98.41	1.0
Natural Compression	98.41	4.0
Sparsified SGD with Memory	98.33	317.05
EF-SignSGD	98.3	32.0
TernGrad	98.23	20.19
BucketSGD	98.0	49.78
Gradient Sparsification	97.94	100.56
Sparse Gradient	97.53	11.83
1-Bit SGD	97.5	32.0
vqSGD	95.74	35.69
FetchSGD	94.62	2.1
TopK	93.86	192.97