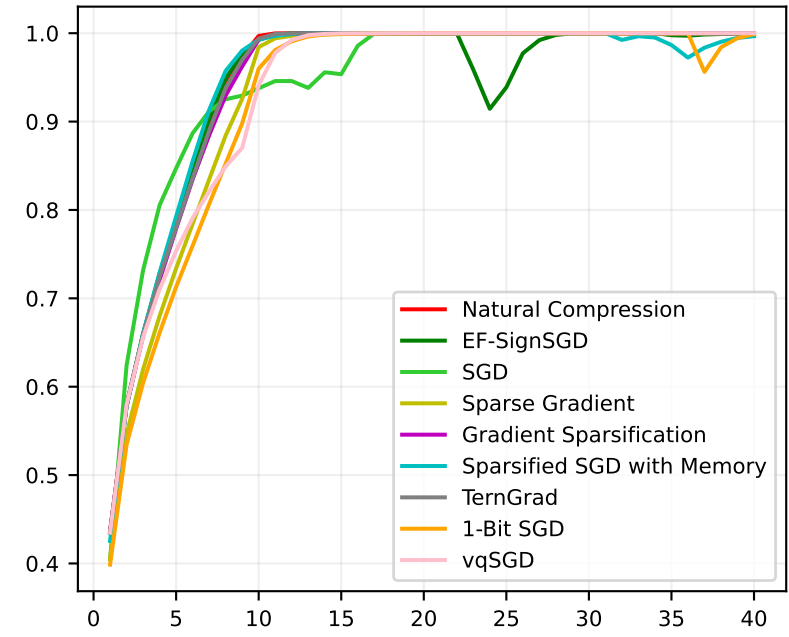
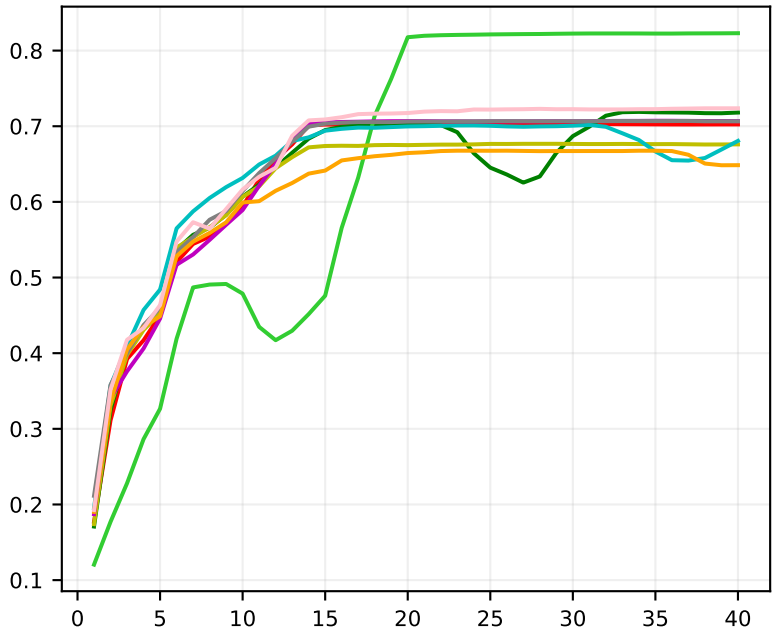


BASELINE_RESNET

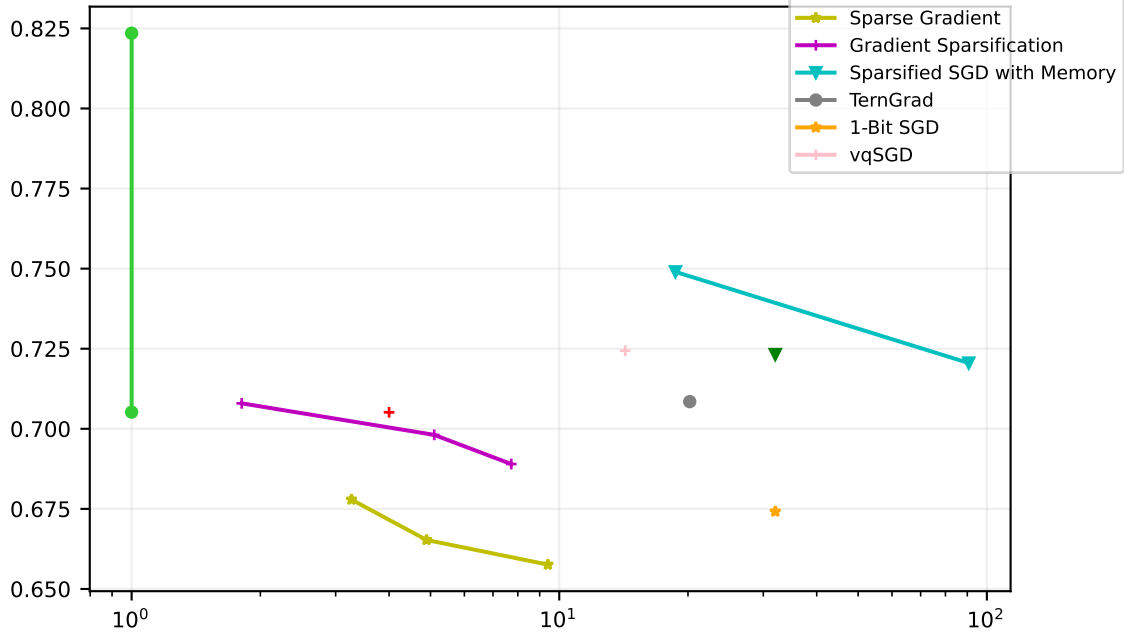
Training Accuracy



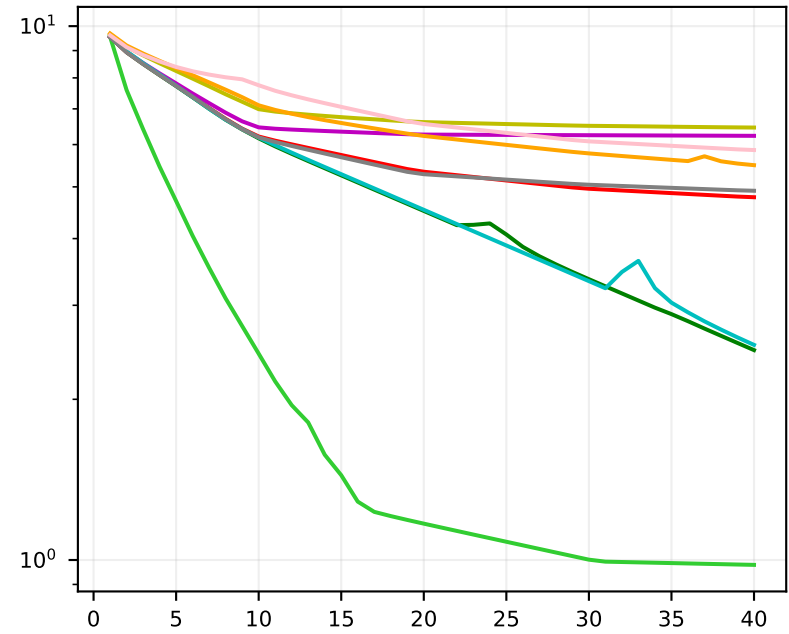
Test Accuracy



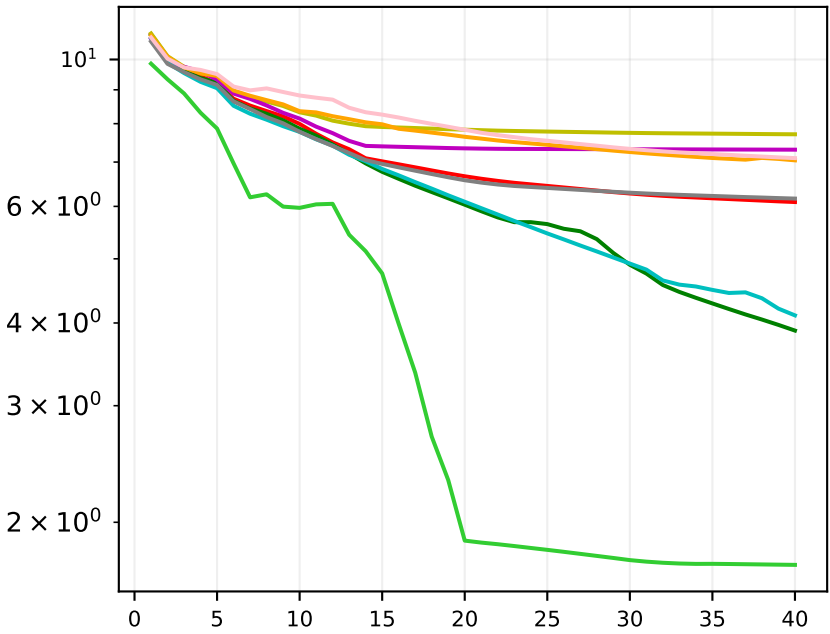
Test Accuracy vs Overall Compression



Training Loss



Test Loss



Method	Test Acc	Compression Ratio
SGD	82.35	1
Sparsified SGD with Memory	74.9	18.7
vqSGD	72.44	14.3
EF-SignSGD	72.32	32.0
TernGrad	70.85	20.2
Gradient Sparsification	70.79	1.8
Natural Compression	70.52	4.0
Sparse Gradient	67.79	3.3
1-Bit SGD	67.42	32.0