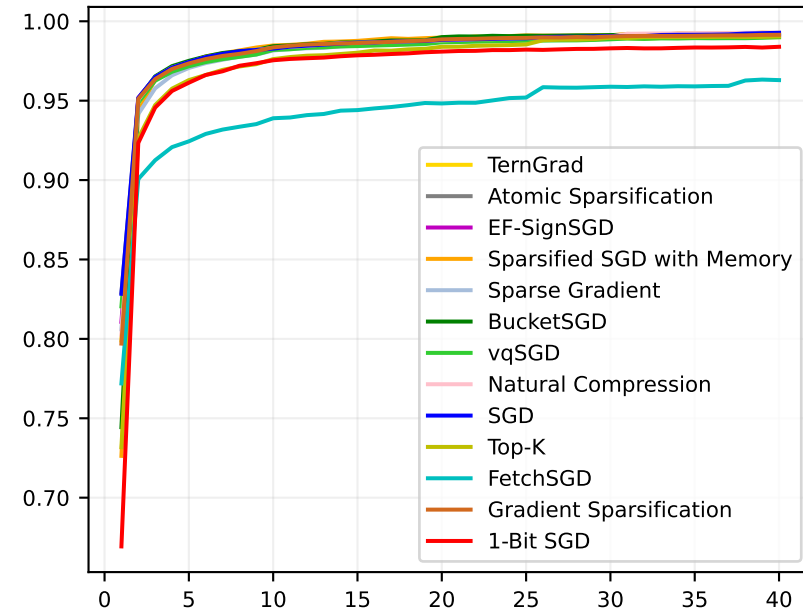
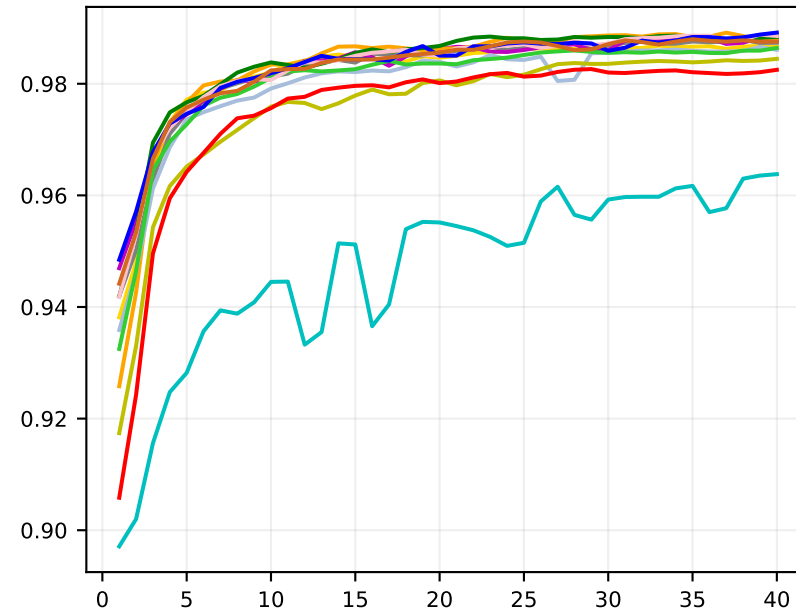


BASELINE_LENET

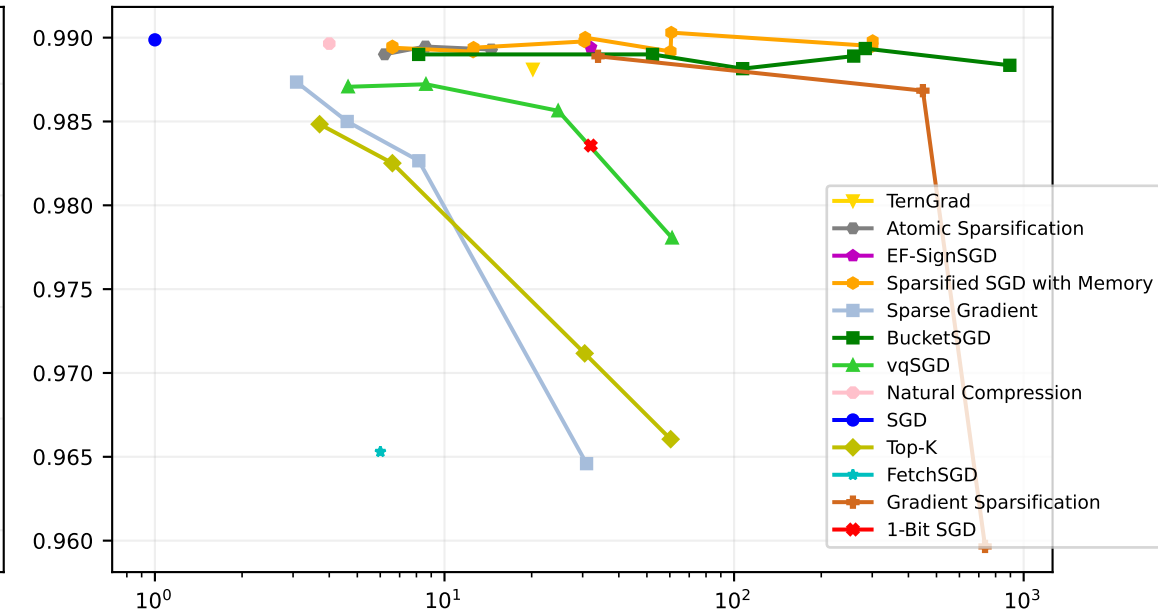
Training Accuracy



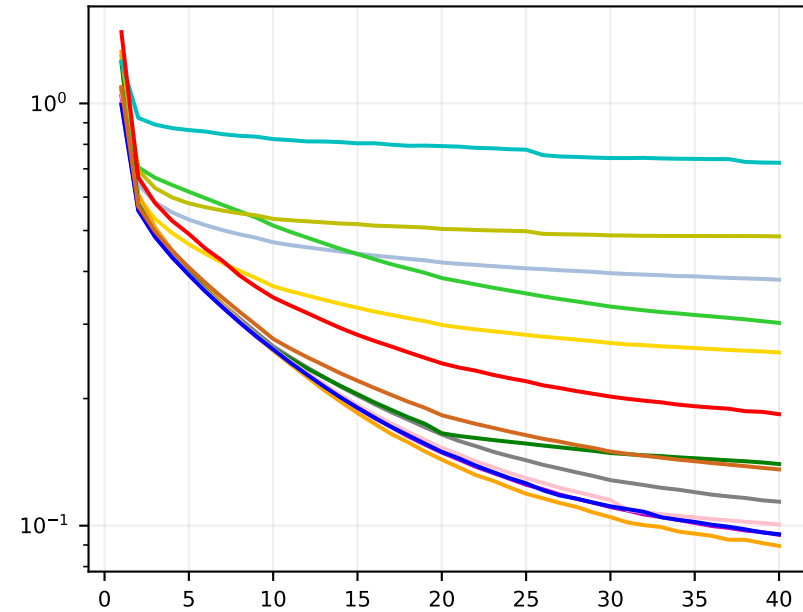
Test Accuracy



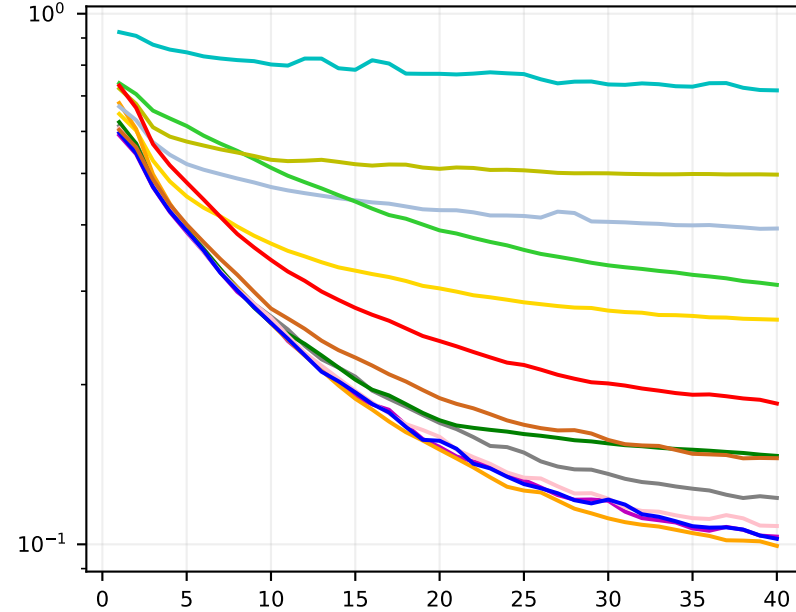
Test Accuracy vs Overall Compression



Training Loss



Test Loss



Method	Test Acc	Compression Ratio
Sparsified SGD with Memory	99.03	60.7
SGD	98.99	1.0
Natural Compression	98.96	4.0
Atomic Sparsification	98.95	8.6
EF-SignSGD	98.94	32.0
BucketSGD	98.93	283.9
Gradient Sparsification	98.89	33.9
TernGrad	98.81	20.2
Sparse Gradient	98.74	3.1
vqSGD	98.72	8.6
Top-K	98.48	3.7
1-Bit SGD	98.36	32.0
FetchSGD	96.53	6.0