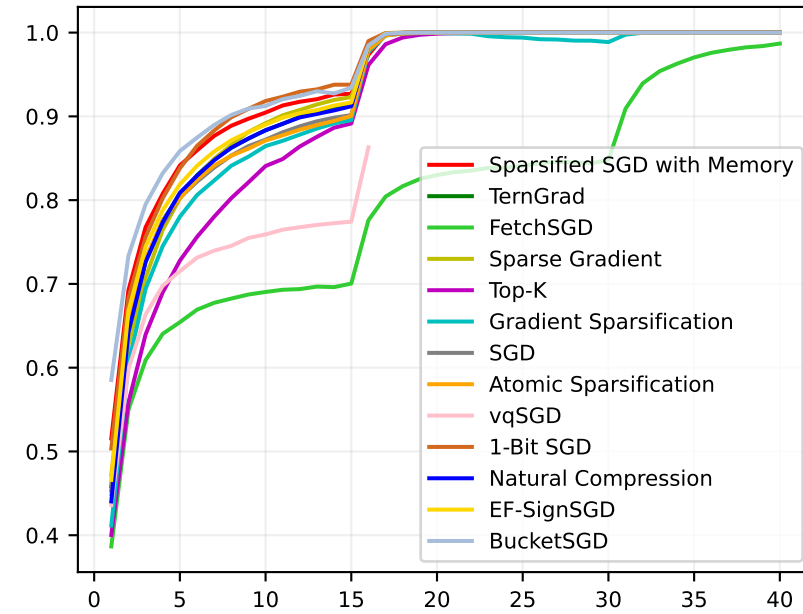
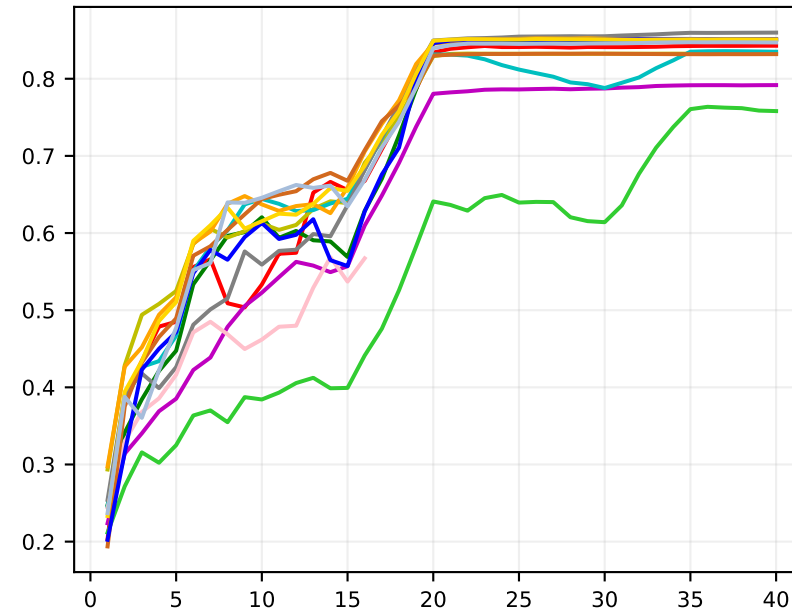


VGGNEW

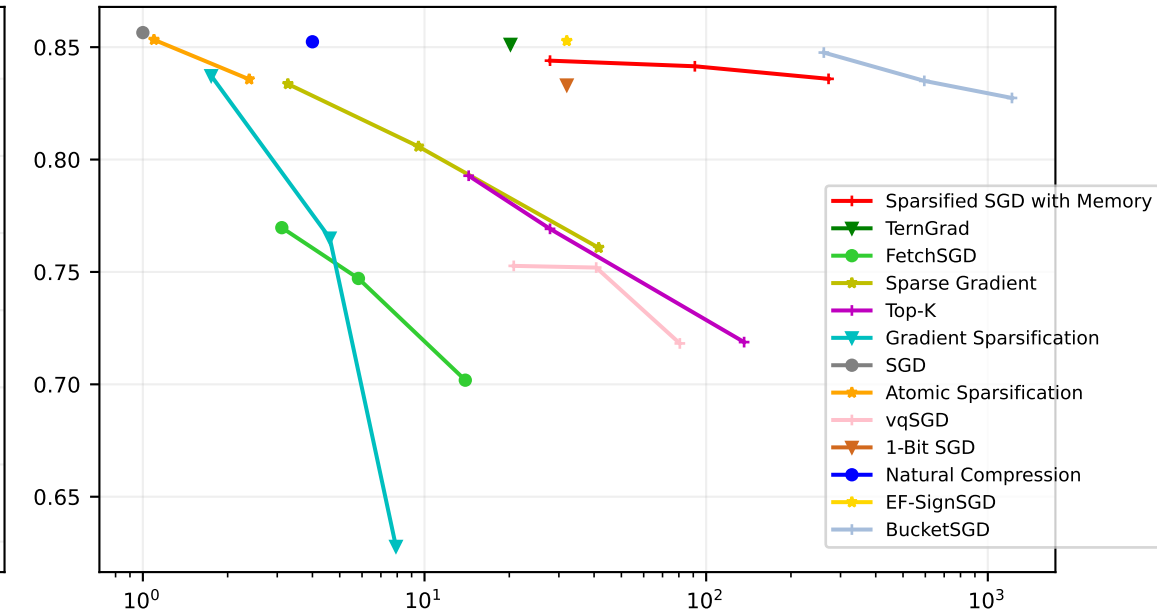
Training Accuracy



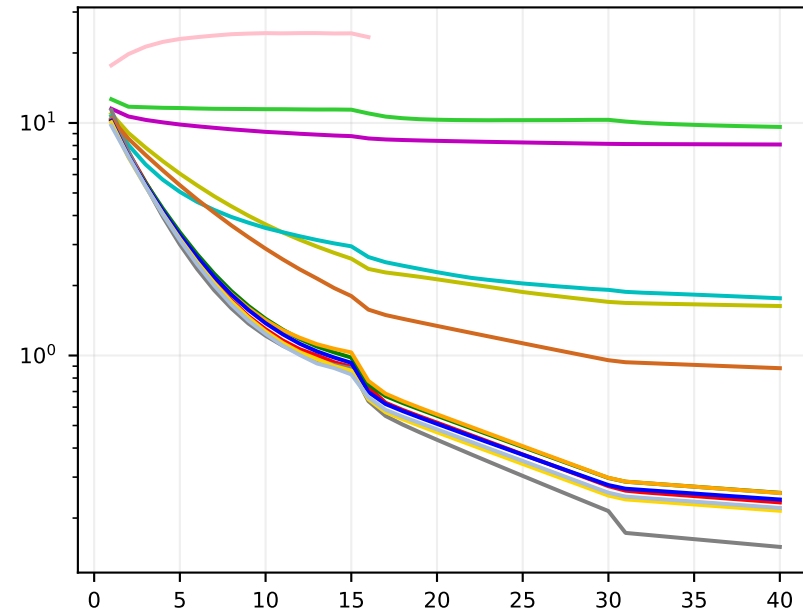
Test Accuracy



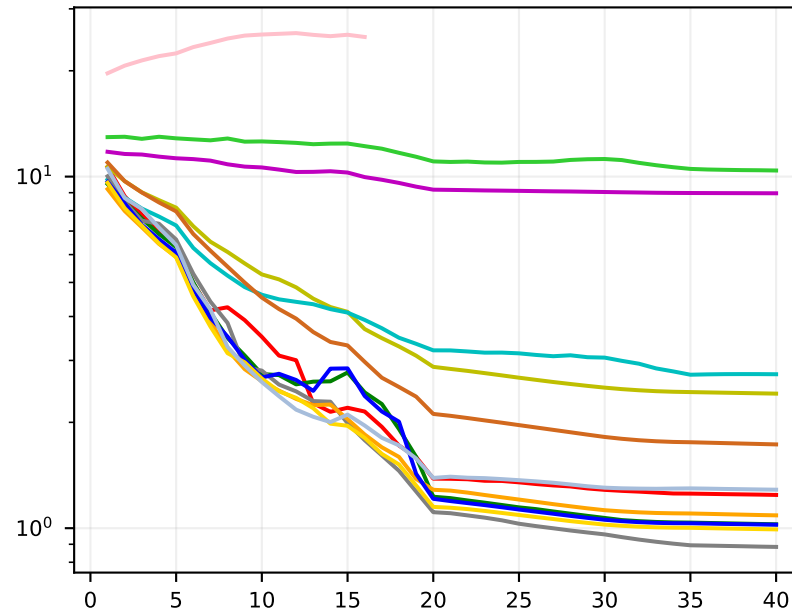
Test Accuracy vs Overall Compression



Training Loss



Test Loss



| Method | Test Acc | Compression Ratio |
|----------------------------|----------|-------------------|
| SGD | 85.65 | 1.0 |
| Atomic Sparsification | 85.33 | 1.1 |
| EF-SignSGD | 85.28 | 32.0 |
| Natural Compression | 85.24 | 4.0 |
| TernGrad | 85.13 | 20.2 |
| BucketSGD | 84.76 | 261.7 |
| Sparsified SGD with Memory | 84.4 | 27.9 |
| Gradient Sparsification | 83.73 | 1.7 |
| Sparse Gradient | 83.36 | 3.3 |
| 1-Bit SGD | 83.31 | 32.0 |
| Top-K | 79.28 | 14.3 |
| FetchSGD | 76.97 | 3.1 |
| vqSGD | 75.27 | 20.7 |