

| 0.975 - | ++• | | k | | | | | | |
|---------|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 0.950 - | | | | | | | | | |
| 0.925 - | | | | | | | | | • |
| 0.900 - | | r | | | | | | | |
| 0.875 - | | | | | | | | | |
| 0.850 - | | | | | | | | | • |
| 0.825 - | | | | | | | | | |
| 0.800 - | | | | | | | | | |
| | Ó | 100 | 200 | 300 | 400 | 500 | 600 | 700 | 800 |

| Method | Val Acc | Compression Rate | | |
|------------------------|---------|------------------|--|--|
| sgd | 97.91 | 1 | | |
| memsgd | 97.16 | 81.32 | | |
| naturalcompression | 97.01 | 4.0 | | |
| terngrad | 97.0 | 20.19 | | |
| gradientsparsification | 96.91 | 11.51 | | |
| efsignsgd | 96.84 | 32.0 | | |
| sparsegradient | 95.44 | 5.04 | | |
| vqsgd | 95.17 | 81.87 | | |
| topk | 94.32 | 40.9 | | |
| fetchsgd | 91.13 | 1.07 | | |
| onebitsgd | 89.14 | 32.0 | | |