

0.98 -	
0.96 -	
0.94 -	
0.92 -	
0.90 -	sgd → terngrad → efsignsgd
0.88 -	→ memsgd → sparsegradient → vqsgd
0.86 -	naturalcompression topk gradientsparsification nebitsgd
	0 100 200 300 400 500 600 700 800

Method	Val Acc	Compression Rate
sgd	98.43	1
memsgd	98.41	81.32
naturalcompression	98.39	4.0
terngrad	98.27	20.19
efsignsgd	98.27	32.0
sparsegradient	98.17	5.04
gradientsparsification	97.91	129.17
vqsgd	97.56	41.04
onebitsgd	96.73	32.0
topk	96.3	40.87