

1.0 -	
0.9 -	
0.8 -	
0.7 -	
0.6 -	
0.5 -	sparsegradient efsignsgd
0.5	── terngrad
0.4 -	→ topk → vqsgd
	memsgd —— sgd
0.3 -	gradientsparsification fetchsgd
	naturalcompression
0.2 -	* onebitsgd
	0 100 200 300 400 500 600 700 800

Method	Val Acc	Compression Rate
sgd	98.39	1
naturalcompression	98.38	4.0
memsgd	98.36	81.34
efsignsgd	98.35	32.0
sparsegradient	98.28	4.14
terngrad	98.26	20.19
vqsgd	97.58	41.05
topk	96.29	40.87
fetchsgd	96.0	1.06
gradientsparsification	77.97	146.13
onebitsgd	32.53	32.0