WRN-28-2 LeNet-300-100 Experiment Resnet-50 CIFAR10 on Imagene MNIST Hyperparameters for training Number of training epochs 100 $Z\mathcal{U}$ TOU Mini toatel size 1, 60. Learning rate schedule D. J. (epoch range, learning rate) 0.008 91 100: 0.0001 Momentum (Nesterov) \mathbf{n} regularization multiplier 0.00010.0005 L² regularization multiplier 0,0001 **V.**V Hyperperameters for sparse compression (compressed sparse) (Zhu & Gupta 2017 Number of pruning iterations (1) Number of training epochs between pruning iterations Number of training epochs post-pruning Number of epochs during proving 50 0.0200 0.0046 26 35: 0.0010 0.0008 36: 0.000 1 20 0.0200 1 0.0040 Learning rate schedule daring prairing (epoch range, learning rate) 80000Hyperparameters for dynamic sparse reparameterization (dynamic sparse) (ours) Number of parameters to prime (K) 200,000 20,000 Fractional tolerance of A (6) Initial pruning threshold $(H^{(0)})$ 0.601 0.0010.001 26) 35 90 51) 7 26 86 26 86 Reparameterization period (P) selectule 1000 2000 1 25: (ep<mark>och range: 17</mark>) 8000 Hyperparameters for Sparse Evolutionary Training (SET) (Mocanu 11 21. 2018 Number of parameters to prone 20,000 200,000 a each re-parameterization step 11, 35: 1000 2000 Reparameterization period (P) schedule (epoch range: R 4600 8600 Hyperparameters for Deep Rewiring (Deep R) (Belled et al., 2017) H = 5 L regularization multiplier (α) 10 - 510 TU 1 25. 26 80. 1 25: Temperature (T) schedule 10 IU (epoch range: P)

Table 4: Hyperparameters for all experiments presented in the paper