Appendix for: Cross Domain Model Compression by Structurally Weight Sharing

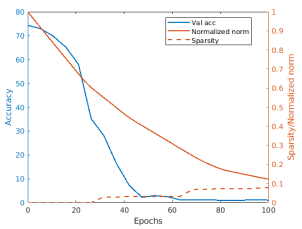
A. Additional results for experiment

Table 1: Acceleration analysis on UCF-101

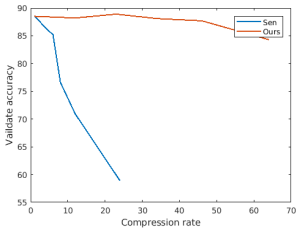
Settings	Per mini-batch	Total	Reduced %
Standard	2.80s	26min 30s	N/A
k_A	1.23s	11min 42s	56%
k_B	1.16s	11min 2s	58.5%
k_C	1.01s	9min 6s	63.9%

Table 2: Additonal results on UCF-101

Method	Performance	Compression rate
Group Lasso[1]	81.2%	1.48
GrOWL	77.1 %	2.7
Ours k_B	**88.9 %**	**23**



(a) Training process of GrOWL on UCF-101



(b) Compression rate and performance

Figure 1: (a) We present the validation accuracy, normalized weight norm, and sparsity of GrOWL during training. (b) We show the trade-off between performance and compression rate.

In appendix, we present additional experimental results. In Fig.1, we present training progress of GrOWL and trade-off between compression rate and performance. In table 2, Additional comparison results are given for UCF-101 dataset, we include GrOWL and Group Lasso[1] into comparison. In table 1, we present acceleration analysis for three different settings.

References

[1] W. Wen, C. Wu, Y. Wang, Y. Chen, and H. Li. Learning structured sparsity in deep neural networks. In *Advances in Neural Information Processing Systems*. 2016.