

Project 3 - Milestone 2 Report

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Performance Benchmarks

Version	Tile Size	Core count	Time to solution (s) - 5 epochs		Grind rate (samples / s)		Accuracy (%)	
			Batch 256	Batch 512	Batch 256	Batch 512	Batch 256	Batch 512
CPU	32	32	10.471	11.109	31,339	29,525	89.74	87.56
CPU (BLAS)	-	32	2.217	1.485	159,003	246,936	89.64	86.78
GPU (A100)	N/A	N/A	3.013	2.870	108,673	115,372	9.98*	12.28*

Progress

- CPU (no BLAS) : Completed
- CPU (BLAS) : Completed
- GPU(Baseline) : Coding completed, result is wrong

** Accuracy and loss are not improving across epochs for GPU. Looking into proactively*