Benchmark: MMLU Moral Disputes Performance Metric: Accuracy Correlation Metric: Spearman Model Family Cerebras (Param. and Data Scaling) —— INCITE 7B Param. (Data Scaling) 0.8 LLM360 Amber 7B Tokens (Param Scaling) — OLMo 7B Param. (Data Scaling) —— Pythia 12B Param. (Data Scaling) —— Pythia 300B Tokens (Param. Scaling) 0.6 CDF 0.40.20.0 1.00 -1.00-0.75-0.50-0.250.000.250.500.751.00 Correlation Between FLOPs and Scores (Per Sample)

1.0 0.8 % of Samples 9.00.40.2-0.75-0.50-0.250.000.250.500.75Correlation Between FLOPs and Scores (Per Sample)