

FLOPs	8.4	7.1	4.7	4.9	10.0	27.3	15.2	8.1	24.2	5.8	8.6	9.0	11.1
Size and Tokens	3.2	3.1	3.3	3.2	7.1	12.2	5.8	4.7	8.6	4.3	3.4	3.9	5.2
PCA + FLOPs (d=1)	14.5	10.1	12.5	7.6	6.5	19.8	12.1	7.1	4.0	1.9	2.2	7.5	8.8
PCA + FLOPs (d=2)	15.1	8.6	10.3	5.6	6.2	19.7	10.8	7.2	4.1	2.0	2.2	7.6	8.3
PCA + FLOPs (d=3)	14.7	9.6	12.8	7.0	6.7	20.1	7.9	6.8	3.5	1.8	3.0	7.2	8.4
PCA + FLOPs (d=4)	13.6	9.8	12.7	6.9	7.1	20.6	10.3	7.2	3.8	2.0	3.1	6.3	8.6
Sloth basic (d=1) (shared intercept)	7.1	5.8	7.7	6.0	6.8	10.6	7.9	5.5	5.3	2.4	2.3	6.4	6.2
Sloth basic (d=2) (shared intercept)	6.9	4.9	5.9	4.2	7.1	10.2	8.4	5.2	6.5	2.7	2.5	5.9	5.9
Sloth basic (d=3) (shared intercept)	6.8	5.4	5.7	4.1	6.7	10.2	8.7	5.3	8.0	2.9	2.8	5.7	6.0
Sloth basic (d=4) (shared intercept)	6.8	5.3	5.6	4.1	6.7	10.3	8.7	5.3	7.4	2.8	2.9	5.7	6.0
Sloth (d=1) (shared intercept)	5.7	6.3	8.1	5.7	6.8	11.9	9.3	4.8	5.5	3.1	2.7	6.3	6.4
Sloth (d=2) (shared intercept)	6.6	3.8	4.8	3.6	6.8	15.7	9.1	4.8	5.3	2.3	2.7	6.0	6.0
Sloth (d=3) (shared intercept)	5.9	4.0	5.2	3.8	7.2	14.5	10.3	4.6	5.2	3.5	2.8	6.2	6.1
Sloth (d=4) (shared intercept)	5.7	3.9	5.2	3.9	6.0	11.6	10.0	4.9	4.9	3.2	2.8	5.8	5.7
Sloth basic (d=1)	7.8	4.9	6.9	4.6	5.4	17.9	8.3	6.8	5.7	1.8	2.8	7.6	6.7
Sloth basic (d=2)	5.4	5.8	7.8	4.3	5.8	12.7	8.7	5.0	4.4	1.5	2.2	4.9	5.7
Sloth basic (d=3)	4.9	5.4	7.3	3.8	6.3	12.0	6.1	4.9	4.9	1.5	2.6	4.6	5.4
Sloth basic (d=4)	3.0	5.8	5.8	3.2	6.8	10.7	4.2	5.2	6.5	1.8	2.9	4.3	5.0
Sloth (d=1)	3.1	6.7	9.7	6.4	4.7	16.7	8.6	4.8	6.4	1.9	2.5	3.9	6.3
Sloth (d=2)	5.9	3.1	3.0	2.1	4.9	14.9	8.2	4.1	3.6	1.9	1.9	4.0	4.8
Sloth (d=3)	3.1	4.8	3.4	3.2	5.6	8.0	7.0	3.5	2.9	2.1	2.2	2.3	4.0
Sloth (d=4)	2.3	2.7	2.4	1.9	6.2	9.5	5.5	4.6	4.1	2.3	3.6	2.5	4.0
	MMLU	ARC	HellaSwag	Winogrande	TruthfulQA	GSM8K	IFEval	BBH	MATH Lvl 5	GPQA	MUSR	MMLU-PRO	Average