Llama3-1B singulars values by layers q_proj k_proj v_proj 10^{1} 10¹ 250 -100 -100 - 10^{0} 500 -- 10⁰ 750 750 -yellong -xellong -xell 10-1 Index singular 300 Index singular 300 -· 10⁻² - 10⁰ 10-3 1500 · 400 -400 - 10^{-4} 1750 -^L 10⁻¹ $- 10^{-1}$ 2000 500 500 10.0 12.5 15.0 10.0 12.5 15.0 10.0 12.5 15.0 2.5 5.0 7.5 0.0 2.5 5.0 7.5 2.5 5.0 7.5 0.0 0.0 Layer Layer Layer down_proj o_proj up_proj 0 10^{1} 10^{0} 250 250 -250 · 500 500 500 10^{-1} 750 750 750 750 -winding 1000 -xing 1000 -xing 1250 -750 ludex sin dark 1000 1250 750 mg ludex sinder 1000 mg ludex 1250 mg lu 10-2 - 10⁰ · 10⁻³ · 10⁰ 1500 -1500 1500 └ 10⁻⁴ 1750 -1750 -1750 · ŀ 10⁻⁵ 2000 2000 2000 10.0 12.5 15.0 10.0 12.5 15.0 10.0 12.5 15.0 0.0 2.5 5.0 7.5 0.0 2.5 5.0 7.5 2.5 5.0 7.5 0.0 Layer Layer Layer