

	init_frobenius_norm / init_spectral_norm / init_eig_mean / init_eig_var / init_neg_frac / init_zero_frac / init_singular_mean / init_singular_std / init_trace_spec_ratio / init_comm_norm									
	init_frobenius_norm	init_spectral_norm	init_eig_mean	init_eig_var	init_neg_frac	init_zero_frac	init_singular_mean	init_singular_std	init_trace_spec_ratio	init_comm_norm
2	3.0832324028015137	1.1877045631408691	0.00351408147253096	0.025864964351058006	0.16076683937823832	0.9209689119170984	0.029164833948016167	0.15416662395000458	1.1619614362716675	0.41641154885292053
4	2.245008707046509	0.8473105430603027	0.003518466139212250	0.013464496470987797	0.18976165803108808	0.8602383419689118	0.026241298764944077	0.11117624491453171	1.6494694948196411	0.2067486047744751
8	1.6684712171554565	0.6348909735679626	0.003513626055791974	0.007437862455844879	0.22470466321243523	0.798484455958549	0.023043494671583176	0.08170126378536224	2.2073256969451904	0.10160304605960846
16	1.293250322341919	0.5000284314155579	0.003514944110065698	0.00443176319822669	0.25640673575129536	0.7163652849740934	0.020120391622185707	0.06264939904212952	2.7919600009918213	0.0507928803563118
32	1.0475883483886719	0.4144285321235657	0.003514574375003576	0.002887545851990580	0.2436943005181347	0.6133341968911918	0.017475228756666183	0.05036226660013199	3.3441426753997803	0.024542588740587234
64	0.8988443613052368	0.36345067620277405	0.003514416282996535	0.002107196487486362	0.22876943005181347	0.5341424870466321	0.015592103824019432	0.04300441965460777	3.7778568267822266	0.010980351828038692

	init_comm_norm / train_comm_norm	
	init_comm_norm	train_comm_norm
2	0.41641155	36.1365
4	0.2067486	17.736355
8	0.101603046	8.492985
16	0.05079288	4.4337687
32	0.024542589	2.149983
64	0.010980352	0.98697966

	train_frobenius_norm / train_spectral_norm / train_eig_mean / train_eig_var / train_neg_frac / train_zero_frac / train_singular_mean / train_singular_std / train_trace_spec_ratio								
	train_frobenius_norm	train_spectral_norm	train_eig_mean	train_eig_var	train_neg_frac	train_zero_frac	train_singular_mean	train_singular_std	train_trace_spec_ratio
2	14.919580459594727	13.743136405944824	0.053161635994911194	0.989820659160614	0.3111321243523316	0.9034999999999997	0.06100752204656601	0.7568543553352356	1.480867624282837
4	12.553646087646484	10.839947700500488	0.05323328450322151	0.5545815229415894	0.33949740932642486	0.8238160621761655	0.05998357757925987	0.6360693573951721	1.8777493238449097
8	10.465974807739258	8.356880187988281	0.053233806043863297	0.3266817629337311	0.36429015544041454	0.7049067357512954	0.058843422681093216	0.5293937921524048	2.463090419769287
16	8.808916091918945	6.445565223693848	0.05320998653769493	0.21593119204044342	0.3610388601036269	0.5773471502590676	0.057536378502845764	0.4446274936199188	3.2208170890808105
32	7.736051559448242	5.242896556854248	0.05317216366529465	0.1593194454908371	0.2740829015544042	0.44641709844559574	0.05621184781193733	0.3897092640399933	3.971212387084961
64	7.115882396697998	4.536901950836182	0.05317961424589157	0.13143597543239594	0.2044170984455958	0.32047927461139897	0.05509784445166588	0.3579670190811157	4.5825724601745605