

This portfolio summarizes reproducible, system-level CPUD and tomography metrics across representative quantum and biological systems. Data reflects multi-hop fidelity,  $\Delta$ Purity, and exponential decay trends, providing a clear view of scaling and taxonomy.

System	Hops	CPUD Epsilon	Hop 1	Hop 2	Hop 3	Exponential Fit (CPUD / Tomo)	Aggregate Fidelity Diff (CPUD - Tomo)
<b>Transmon Qubit</b>	3	0.1	Fid: 0.9583	Fid: 0.9583	Fid: 0.9583	a_cpud=-6.08e-9, a_tomo=-0.261	0.4486
			$\Delta$ Pur: 0.3343	$\Delta$ Pur: 0.4748	$\Delta$ Pur: 0.4748		
<b>FMO Complex (Bio)</b>	3	0.0	Fid: 0.3180	Fid: 0.2034	Fid: 0.1771	a_cpud=0.3234, a_tomo=0.3228	-0.00026
			$\Delta$ Pur: 0.3312	$\Delta$ Pur: 0.1829	$\Delta$ Pur: 0.1460		
<b>Radical Pair (Bio)</b>	3	0.0	Fid: 0.3039	Fid: 0.1530	Fid: 0.1233	a_cpud=0.5248, a_tomo=0.5181	0.00054
			$\Delta$ Pur: 0.3346	$\Delta$ Pur: 0.1461	$\Delta$ Pur: 0.1050		
<b>Topological Qubit (Majorana)</b>	3	0.01	Fid: 0.6575	Fid: 0.8408	Fid: 0.9515	a_cpud=-0.1773, a_tomo=-0.2837	0.3446
			$\Delta$ Pur: 0.3230	$\Delta$ Pur: 0.4386	$\Delta$ Pur: 0.4661		



