

ADAPT/VQE Benchmark Summary

Generated (UTC): 2026-02-21T22:20:11.799277+00:00

Settings:

sites=[2] t=1.0 u=4.0 dv=0.5 boundary=open ordering=blocked odd_policy=min_sz

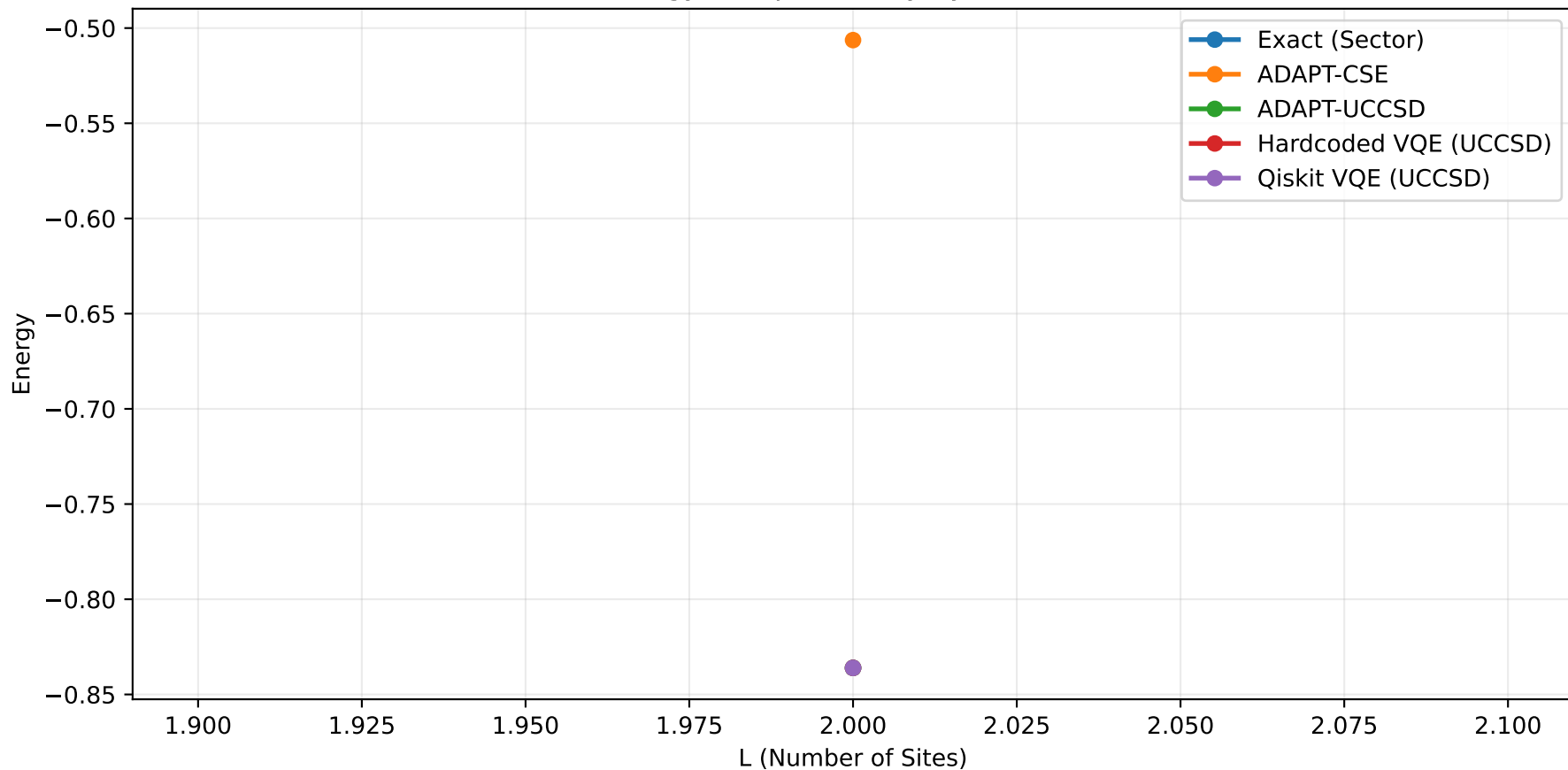
ADAPT(inner_optimizer=lbfgs, inner_steps=0, max_depth=6, max_time_s=30.0, allow_repeats=True)

VQE(reps=2, restarts=1, maxiter=20, seed=7)

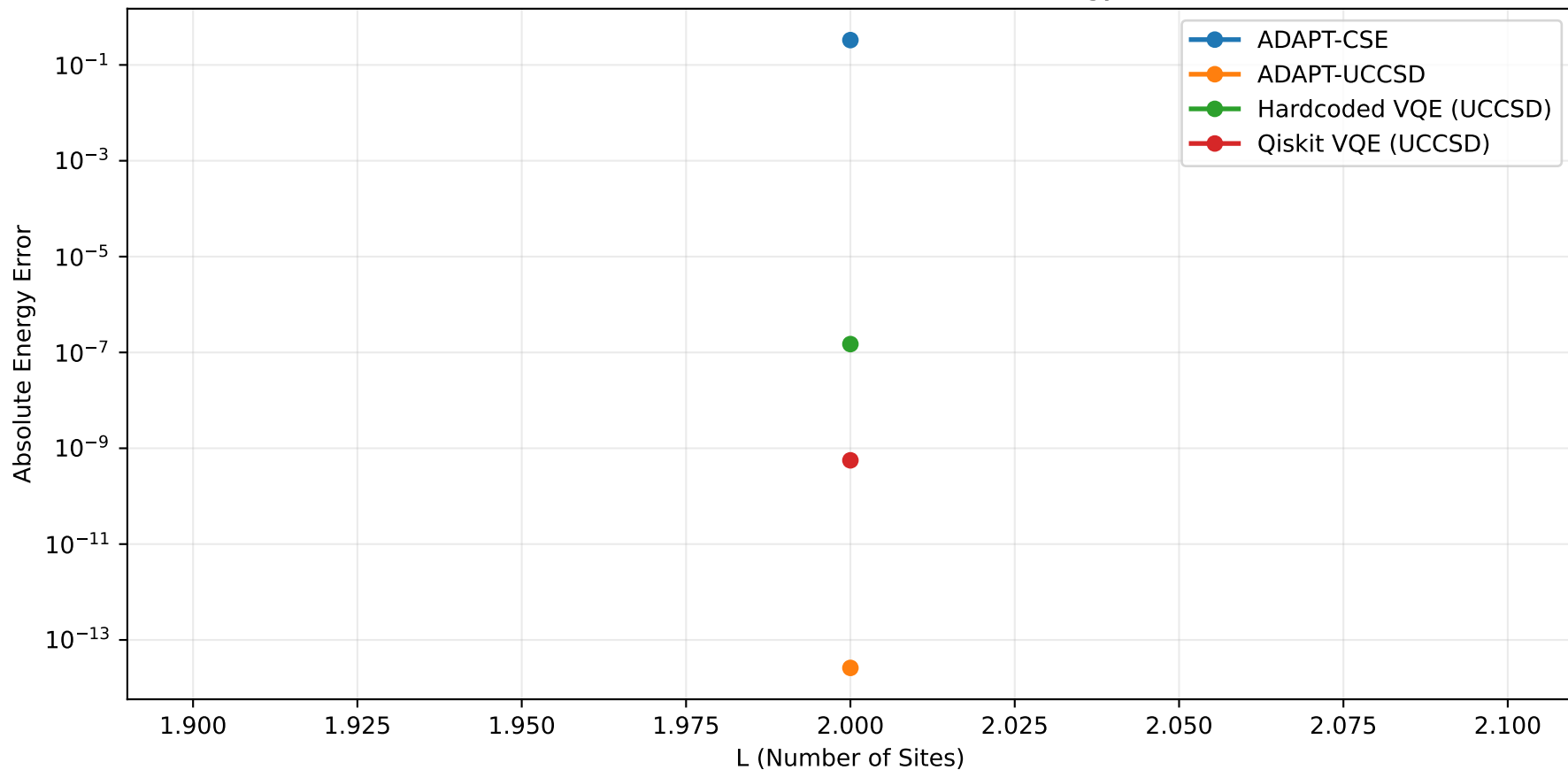
L=2 (n_up=1, n_down=1)

Exact (Sector)	E=-0.836057118155	dE =0.000e+00	t=0.00s
ADAPT-CSE	E=-0.506312970693	dE =3.297e-01	t=2.30s
ADAPT-UCCSD	E=-0.836057118155	dE =2.609e-14	t=12.64s
Hardcoded VQE (UCCSD)	E=-0.836056968909	dE =1.492e-07	t=0.05s
Qiskit VQE (UCCSD)	E=-0.836057117595	dE =5.600e-10	t=1.79s

Energy Comparison by System Size



Absolute Error vs Exact Sector Energy



Runtime by Method

