

ADAPT Confidence Campaign

Generated (UTC): 2026-02-21T19:14:31.663556+00:00

Scope:

Methods: exact, HF, hardcoded VQE, Qiskit VQE, ADAPT-UCCSD(adapt/fixed), ADAPT-CSE
Sites: [2, 3]

Gates:

VQE: L2<=1.0e-08, L3<=1.0e-06
ADAPT-UCCSD fixed: L2<=1.0e-08, L3<=1.0e-06
ADAPT-UCCSD adapt: L2<=1.0e-07, L3<=1.0e-05
ADAPT-CSE: gap_closure>=0.90

Run caps:

per_method_max_time_s=300.0
adapt_trial_max_time_s=120.0
adapt_fixed_trial_max_time_s=180.0

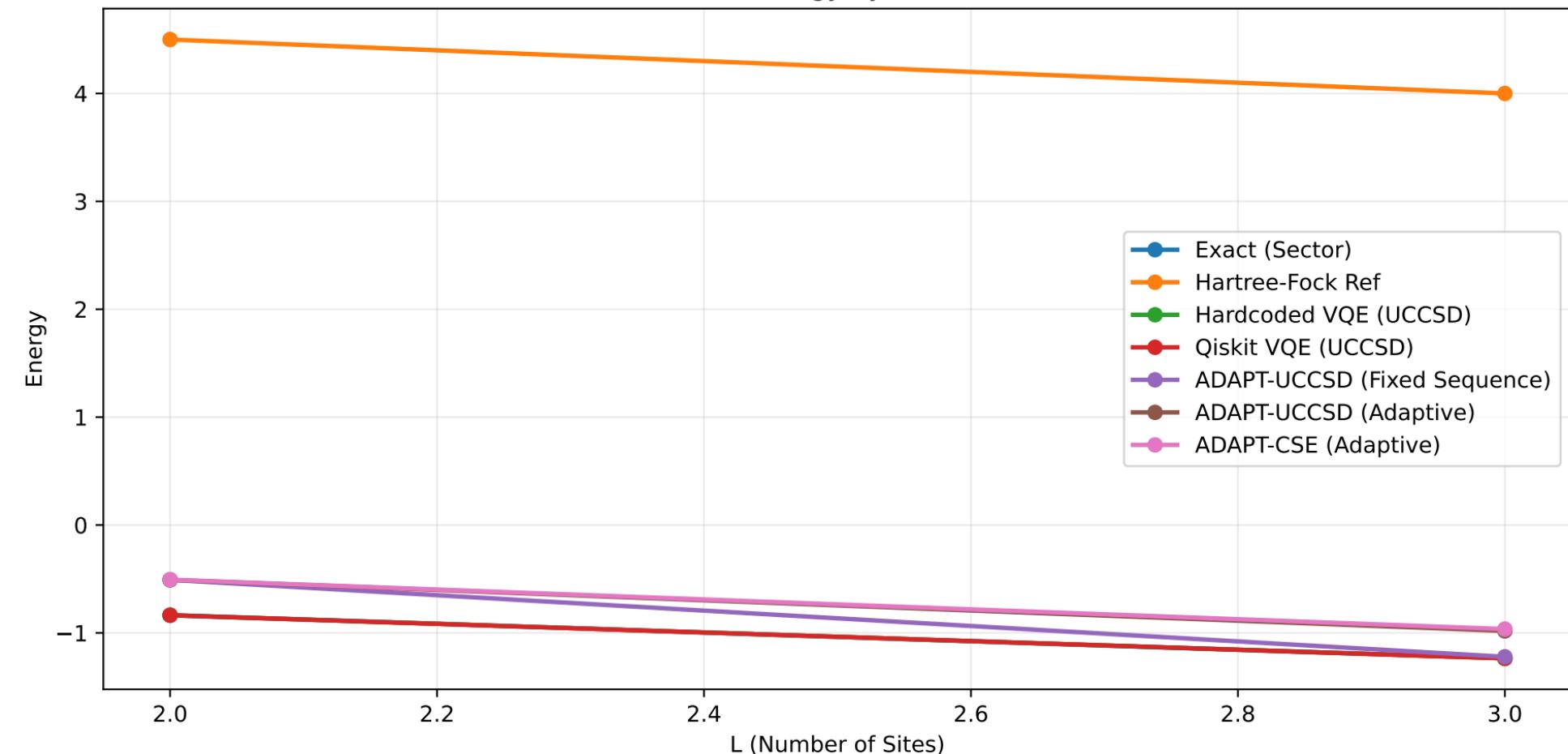
L=2 (n_up=1, n_down=1)

Exact=-0.836057118155	HF= 4.500000000000
Hardcoded VQE (UCCSD)	E=-0.836057118127 dE =2.794e-11 t=0.25s gate_pass=True
Qiskit VQE (UCCSD)	E=-0.836057117595 dE =5.600e-10 t=2.26s gate_pass=True
ADAPT-UCCSD (Fixed Sequence)	E=-0.507936507937 dE =3.281e-01 t=55.77s gate_pass=False
ADAPT-UCCSD (Adaptive)	E=-0.507936507937 dE =3.281e-01 t=26.64s gate_pass=False
ADAPT-CSE (Adaptive)	E=-0.506312970694 dE =3.297e-01 t=7.41s gate_pass=True

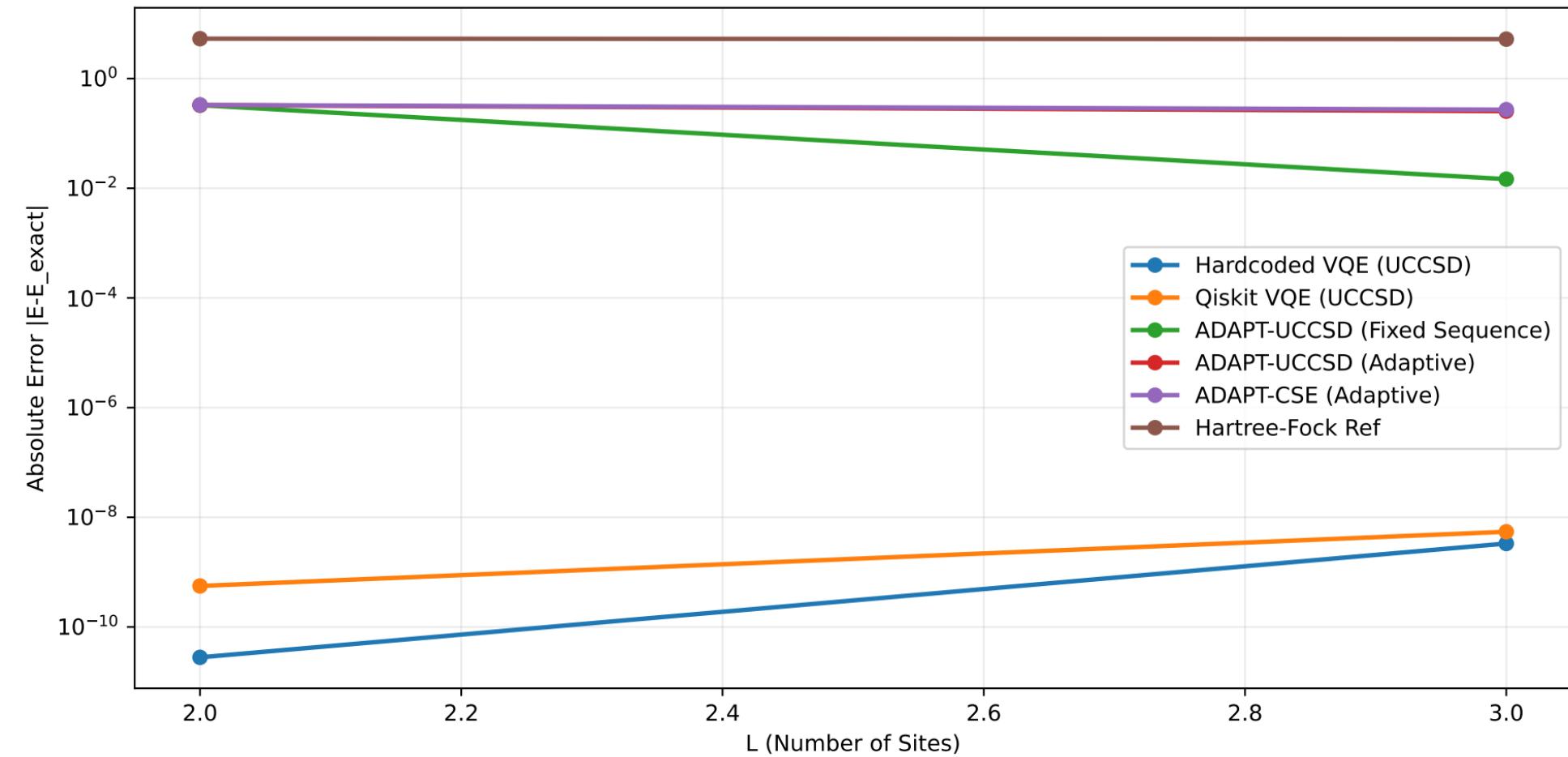
L=3 (n_up=2, n_down=1)

Exact=-1.236067977500	HF= 4.000000000000
Hardcoded VQE (UCCSD)	E=-1.236067974170 dE =3.330e-09 t=30.05s gate_pass=True
Qiskit VQE (UCCSD)	E=-1.236067972049 dE =5.451e-09 t=233.12s gate_pass=True
ADAPT-UCCSD (Fixed Sequence)	E=-1.221399776886 dE =1.467e-02 t=691.00s gate_pass=False
ADAPT-UCCSD (Adaptive)	E=-0.981275244453 dE =2.548e-01 t=242.75s gate_pass=False
ADAPT-CSE (Adaptive)	E=-0.964712231459 dE =2.714e-01 t=124.69s gate_pass=True

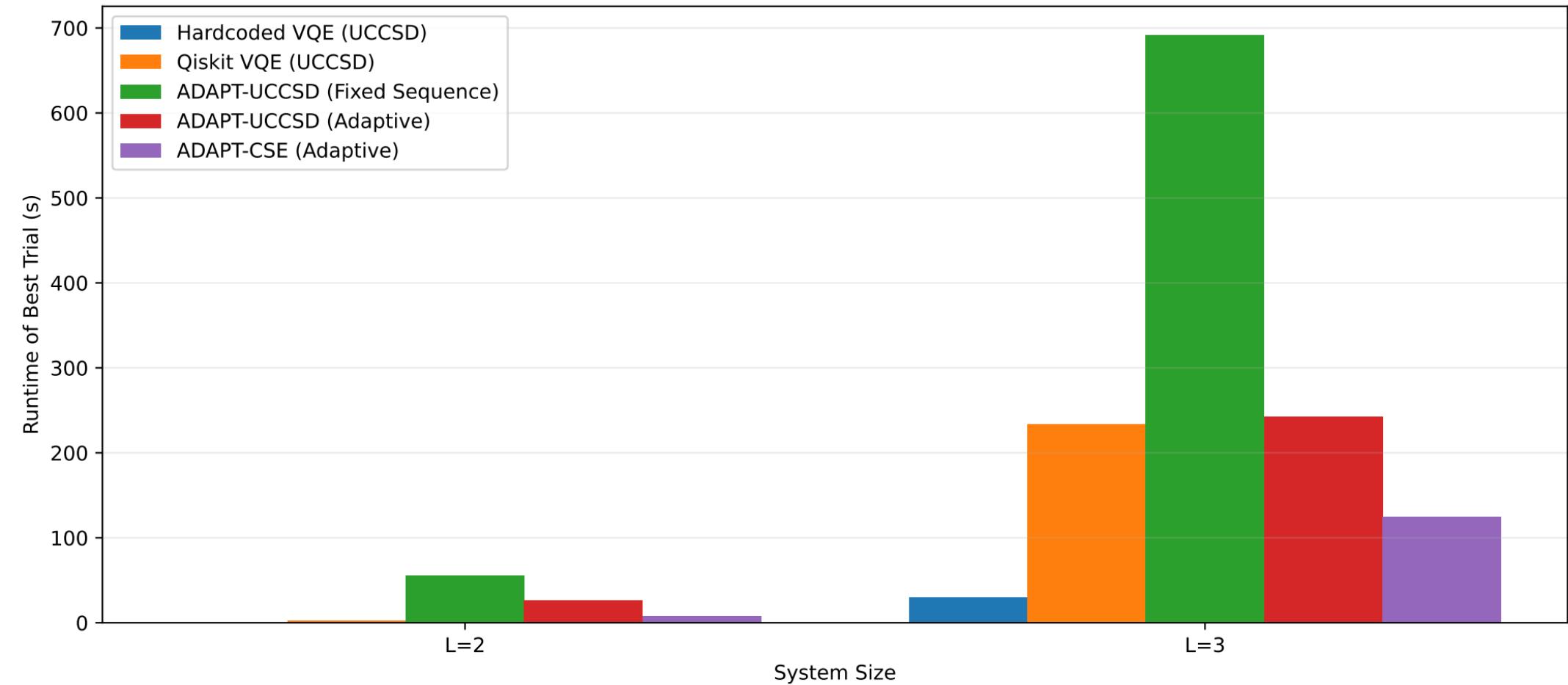
Best Energy by Method



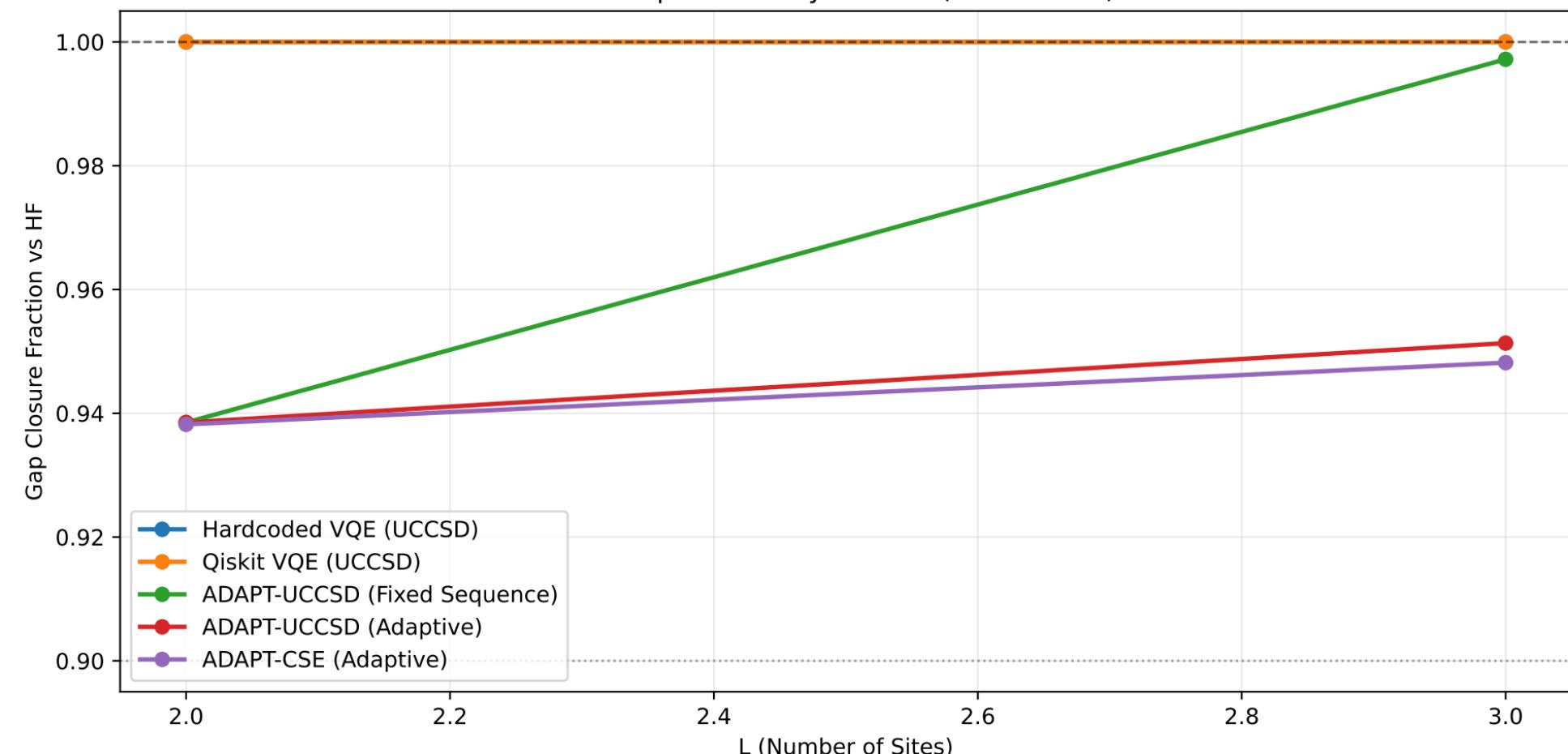
Best Absolute Error vs Exact



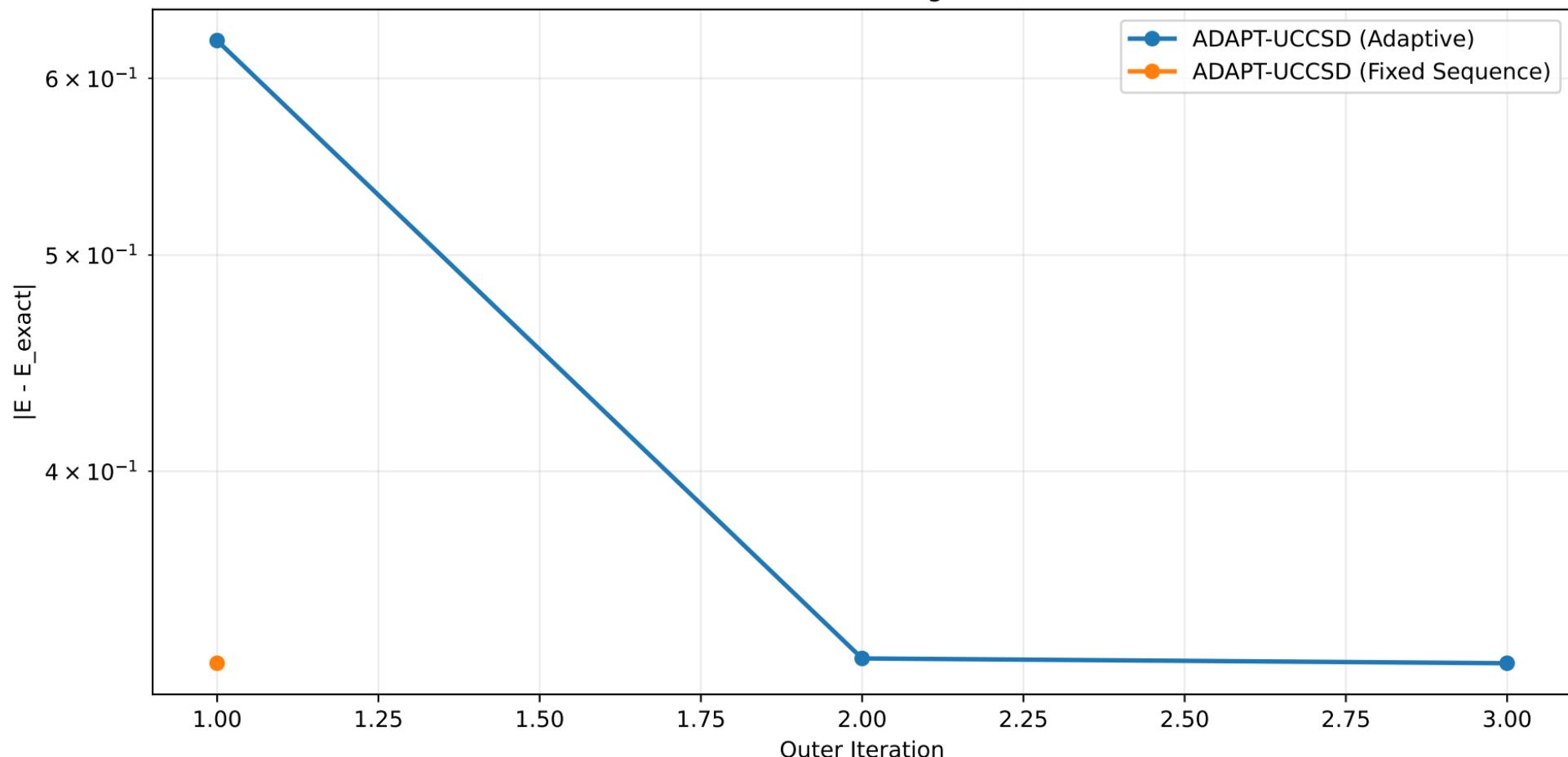
Best-Trial Runtime by Method



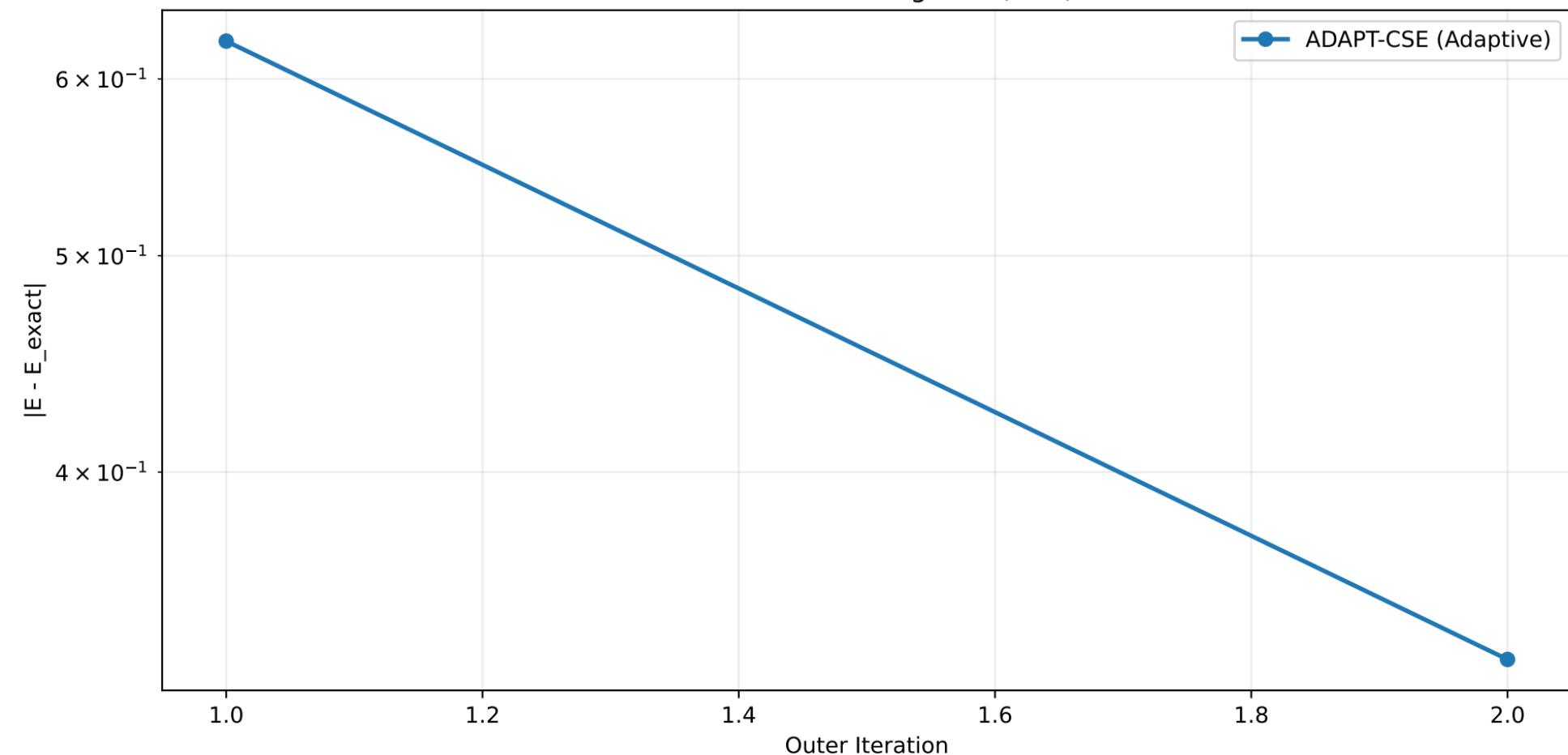
HF Gap-Closure by Method (1.0 = exact)



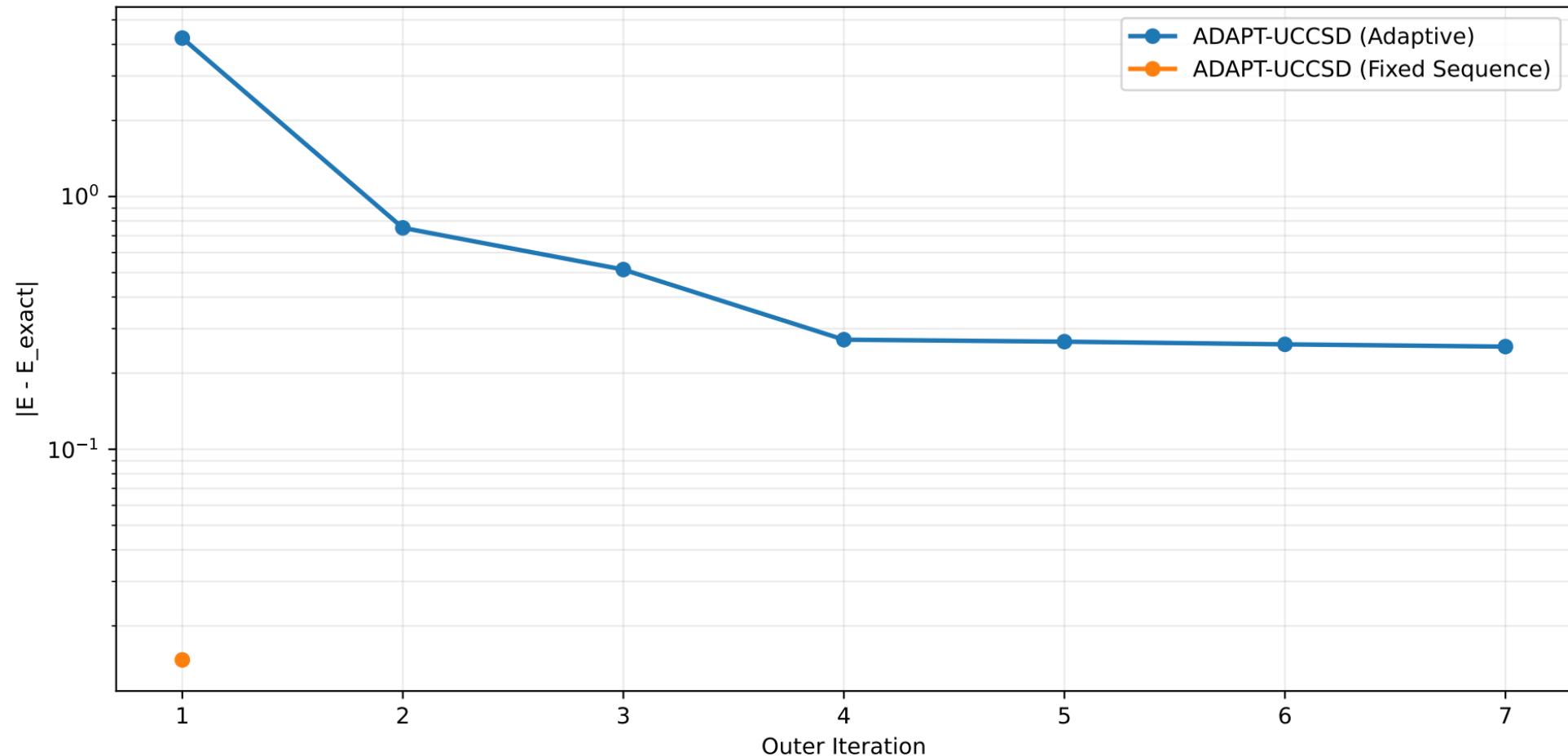
ADAPT-UCCSD Convergence (L=2)



ADAPT-CSE Convergence (L=2)



ADAPT-UCCSD Convergence (L=3)



ADAPT-CSE Convergence (L=3)

