ADAPT Confidence Campaign
Generated (UTC): 2026-02-21T19:00:03.611458+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=12.0
  adapt_trial_max_time_s=2.0
  adapt_fixed_trial_max_time_s=3.0

L=2 (n_up=1, n_down=1)
  Exact=-0.836057118155   HF= 4.500000000000
  Hardcoded VQE (UCCSD)   E=-0.836057054830 |dE|=6.333e-08 t=0.10s gate_pass=False
  Qiskit VQE (UCCSD)   E=-0.836057117595 |dE|=5.600e-10 t=4.96s gate_pass=True
  ADAPT-UCCSD (Fixed Sequence) E=-0.020821263064 |dE|=8.152e-01 t=6.24s gate_pass=False
  ADAPT-UCCSD (Adaptive)   E=-0.506312970694 |dE|=3.297e-01 t=5.51s gate_pass=False
  ADAPT-CSE (Adaptive)   E=-0.506312970694 |dE|=3.297e-01 t=5.17s gate_pass=True

L=3 (n_up=2, n_down=1)
  Exact=-1.236067977500   HF= 4.000000000000
  Hardcoded VQE (UCCSD)   E=-1.236067844029 |dE|=1.335e-07 t=4.61s gate_pass=True
  Qiskit VQE (UCCSD)   E=-1.236067939546 |dE|=3.795e-08 t=84.09s gate_pass=True
  ADAPT-UCCSD (Fixed Sequence) E= 4.000000000000 |dE|=5.236e+00 t=5.92s gate_pass=False
  ADAPT-UCCSD (Adaptive)   E= 3.000000000000 |dE|=4.236e+00 t=2.05s gate_pass=False
  ADAPT-CSE (Adaptive)   E= 3.000000000000 |dE|=4.236e+00 t=1.76s gate_pass=False
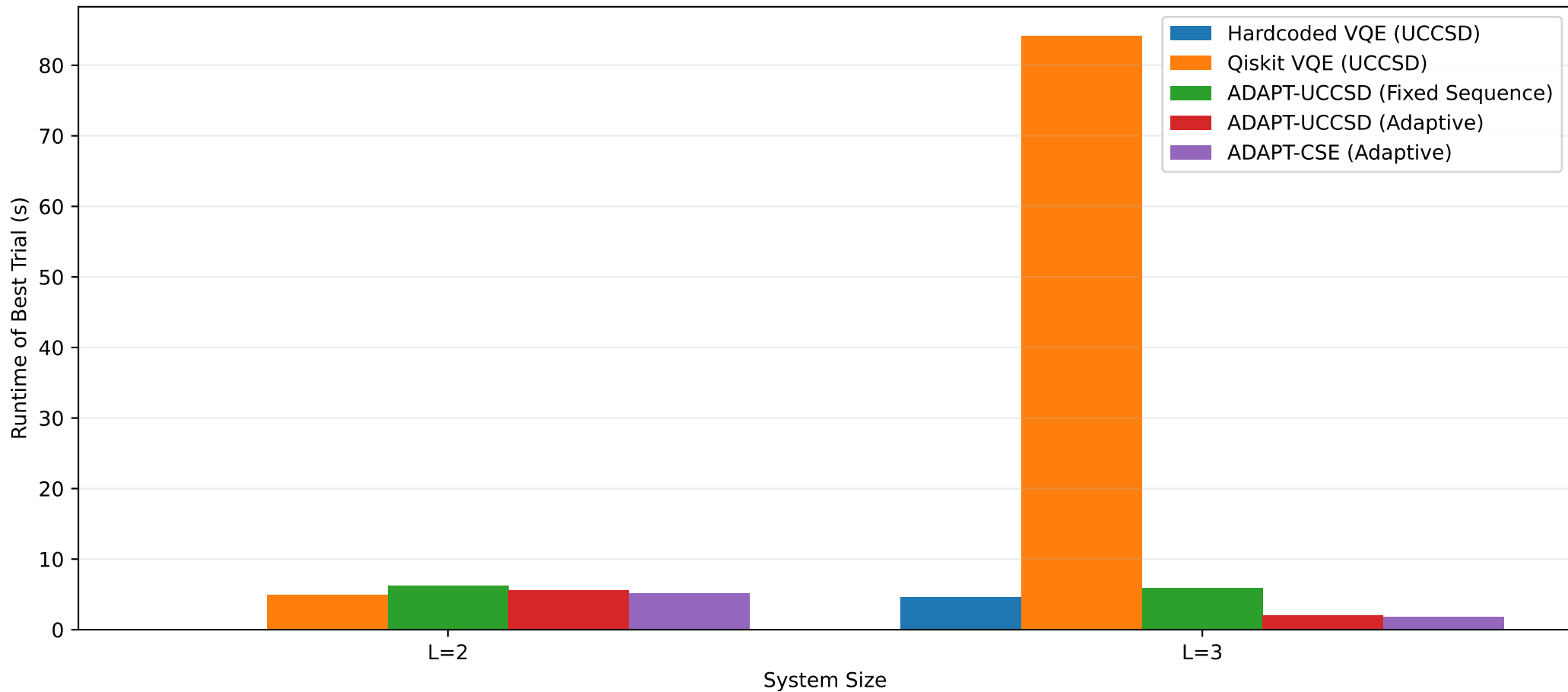
Best Energy by Method
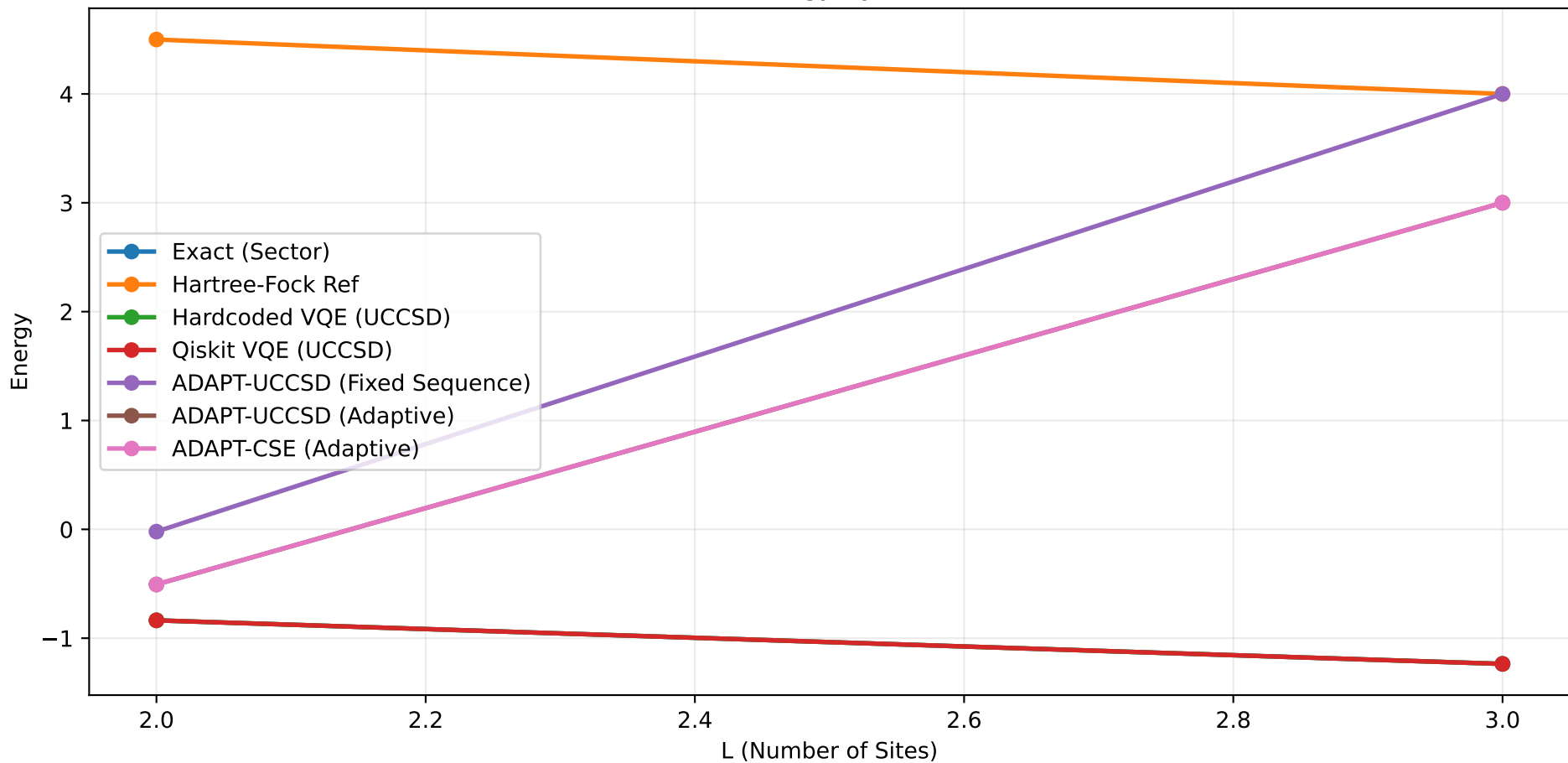
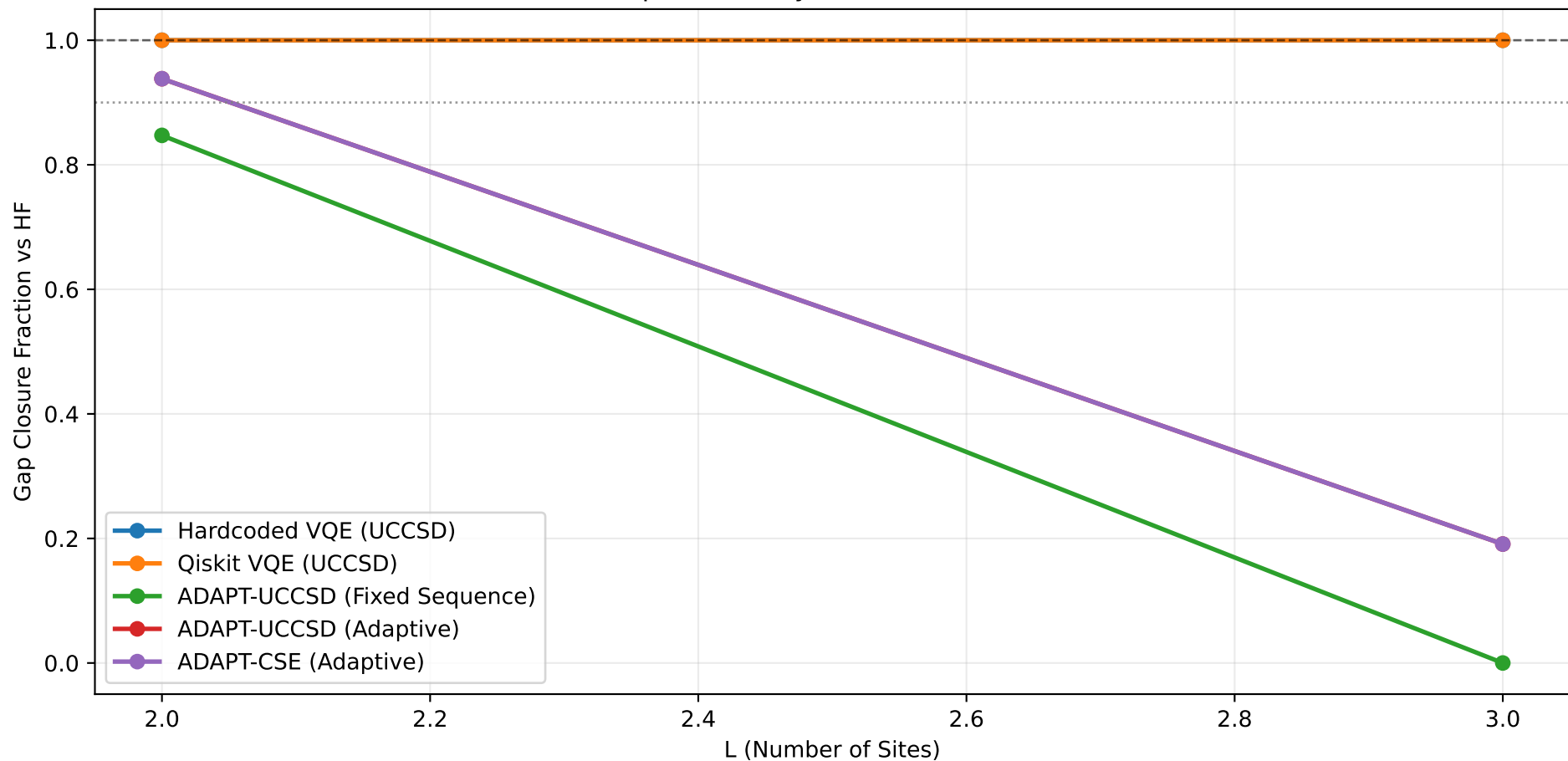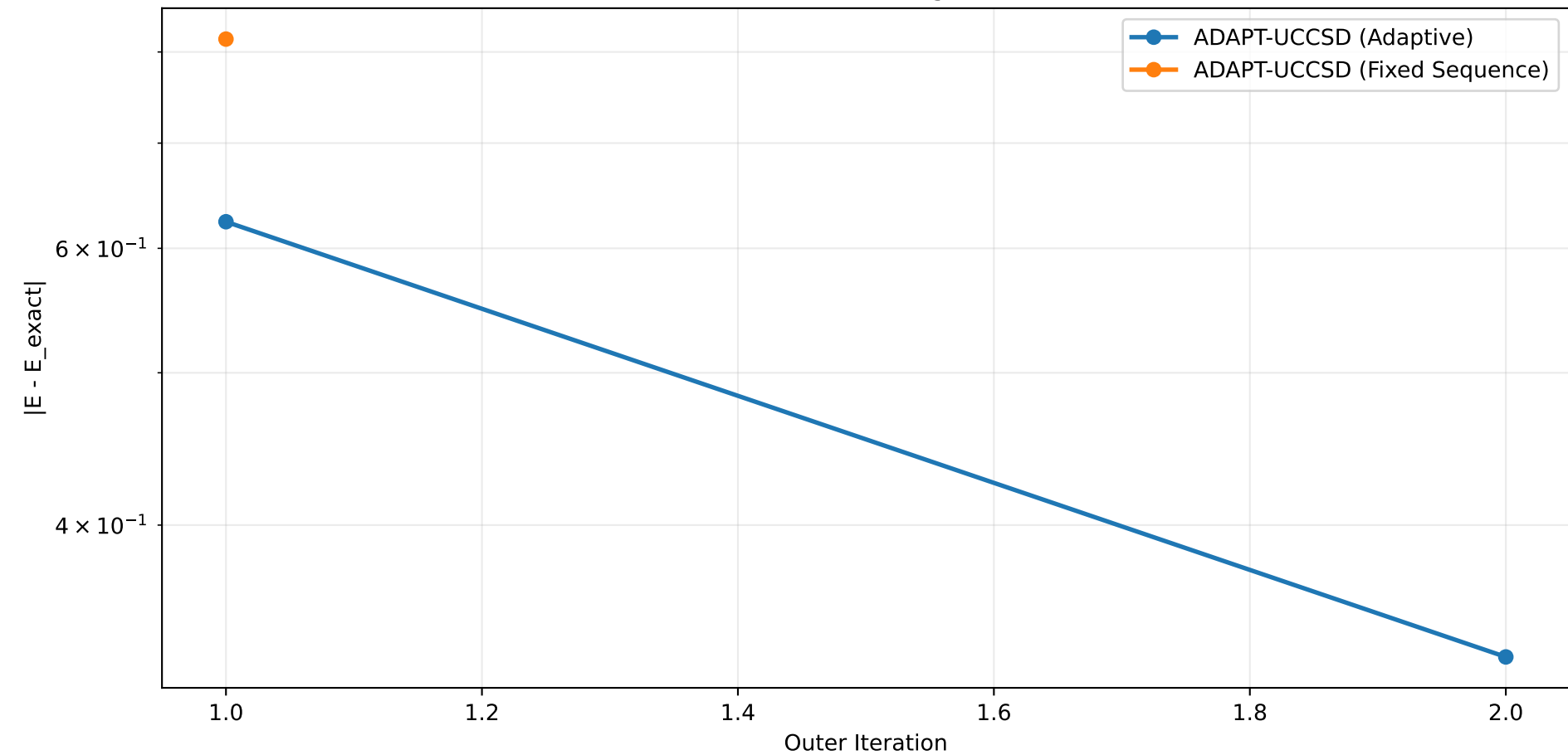Best Absolute Error vs Exact
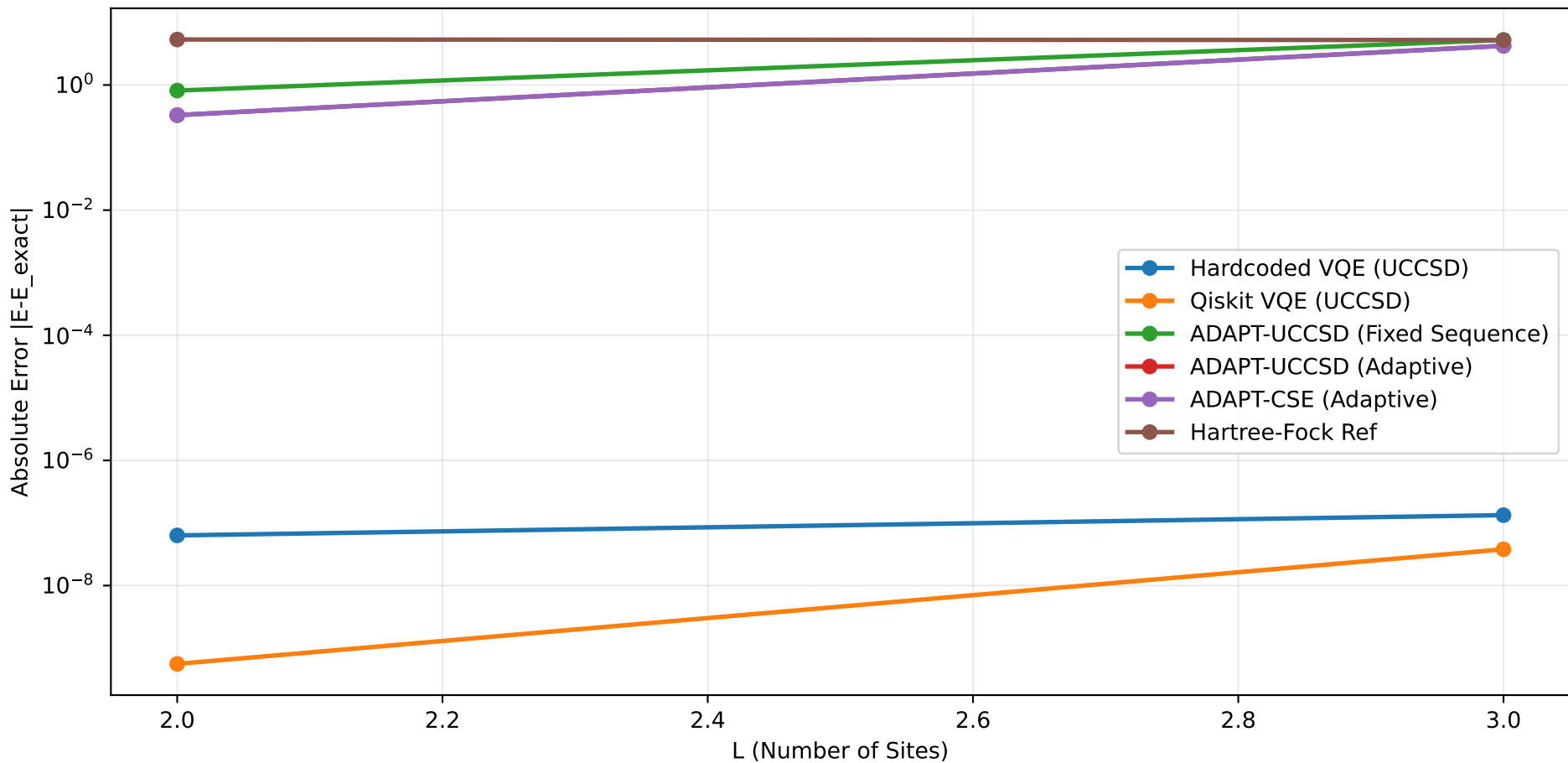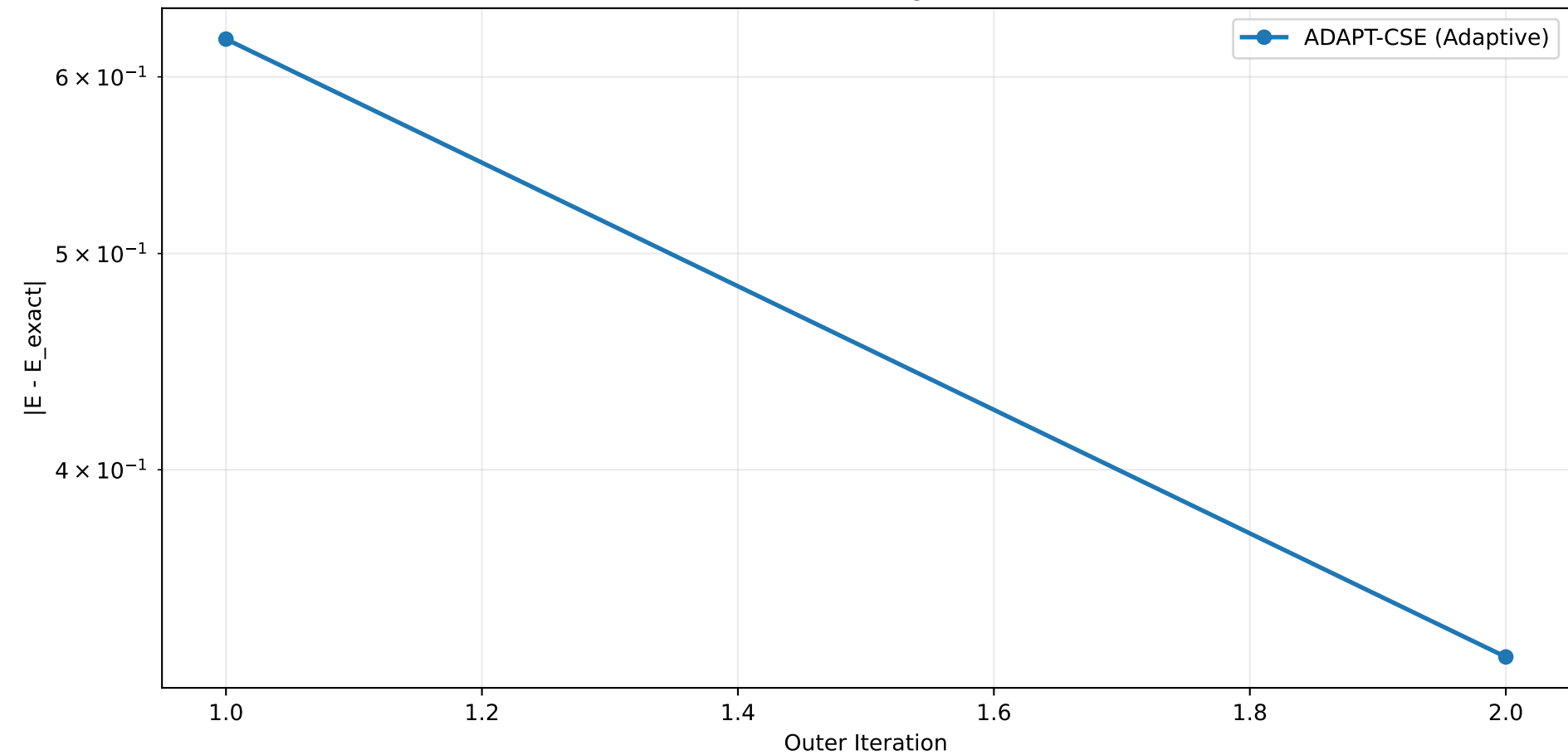
Best-Trial Runtime by Method
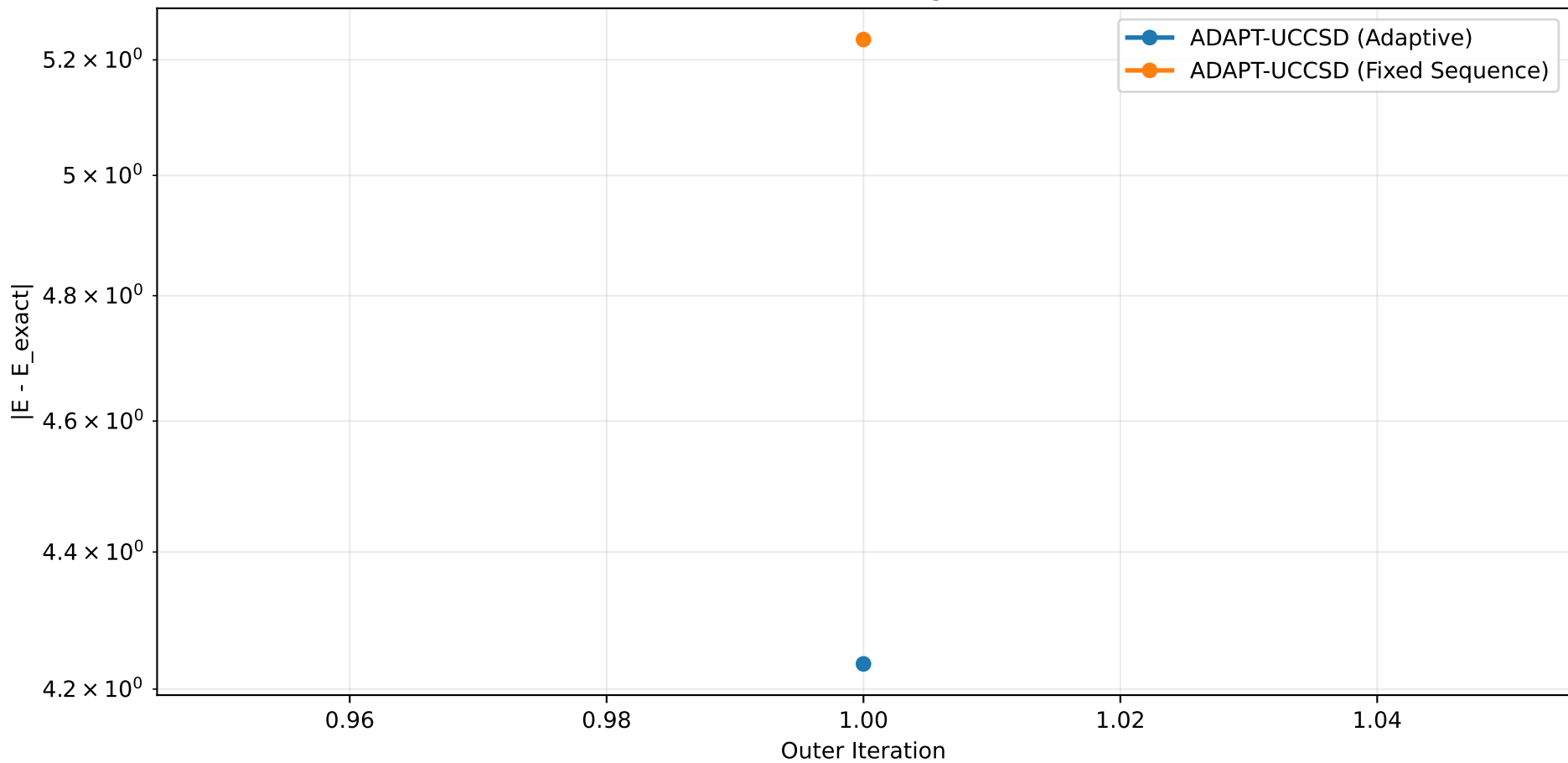
HF Gap-Closure by Method (1.0 = exact)

ADAPT-UCCSD Convergence (L=2)

ADAPT-CSE Convergence (L=2)

ADAPT-UCCSD Convergence (L=3)

ADAPT-CSE Convergence (L=3)