CCSD initial parameters n2 6-31g (10e, 16o) R=1.0 Å all-to-all square Energy error (Hartree) error (Hartree) 10^{-2} Energy 16 18 20 12 16 18 20 10 14 10 14 8 Repetitions Repetitions 0.010 S 0.005 -SO 0.01 0.000 0.00 12 16 18 20 10 14 10 12 14 16 18 20 Repetitions Repetitions sci_vec_shape 200000 200000 UCCSD init - LUCJ Compressed-t2 sci vec sci vec shape 1000000 - LUCJ Compressed-t2 multi-stage LUC| truncated 12 14 16 18 20 12 14 16 18 20 10 Repetitions Repetitions