$N_2$  (6-31g, 10e, 16o) R=1.2 Å / all-to-all R=2.4 Å / all-to-allR=1.2 Å / heavy-hexR=2.4 Å / heavy-hexEnergy error (Hartree) Energy error (Hartree)  $10^{-1}$  $10^{-1}$  $10^{-2}$  $10^{-2}$  $10^{-2}$ Energy 9 10 6 8 6 8 6 8 6 Repetitions Repetitions Repetitions Repetitions 3000 3000 3000 3000 SCI subspace 2000 2000 2000 2000 1000 1000 1000 1000 6 Repetitions Repetitions Repetitions Repetitions

LUC|-truncated - - LUC|-compressed - - LUC|-compressed-1stq - - luc|-compressed-tn

Rand bitstr --- LUCJ-full