N<sub>2</sub> (6-31g, 10e, 16o) R=1.2 Å / all-to-all R=1.2 Å / heavy-hexR=2.4 Å / all-to-allR=2.4 Å / heavy-hexEnergy error (Hartree) Energy error (Hartree)  $10^{-1}$ (Hartree  $10^{-1}$  $10^{-2}$  $10^{-2}$  $10^{-2}$ Energy 9 10 8 9 10 6 7 8 9 10 6 8 6 6 8 9 10 Repetitions Repetitions Repetitions Repetitions 3000 3000 3000 3000 SCI subspace 2000 2000 2000 2000 1000 1000 1000 1000 9 10 6 5 6 6 5

Repetitions

LUCJ-compressed

Repetitions

LUCJ-compressed-1stq

Repetitions

LUCJ-truncated

LUCJ-full

Repetitions

Rand bitstr