$N_2$  (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) (Hartree) error (Hartree)  $10^{-1}$  $10^{-2}$ error  $10^{-2}$  $10^{-2}$  $10^{-2}$ Energy Energy 4 5 6 7 8 6 6 6 Repetitions Repetitions Repetitions Repetitions 1250 1000 1000 1000 1500 SCI subspace subspace subspace subspace 800 800 750 600 600 1000 500 SCL 400 400 250 500 200 200

2 3 4 5 6 7 8 9 10

factor 2

Repetitions

factor 1.5

5 6 7 8 9 10

Repetitions

factor\_2.5

1 2 3 4 5 6 7 8 9 10

Repetitions

factor\_None

factor 0.5

4 5 6 7 8 9 10

LUCJ-full

Repetitions