DFT		pyscf	cp2k	
System	Functional:	lda	lda	
Si Diamond	Basis:	dzvp	dzvp	
	Energy:	-31.28980517	-31.29788527	
	Time (sec)	1129.372854	23.024	
	homo-lumo gap (a.u)	0.00996907422	0.01744552943	
Diamond	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-45.10667858	-45.08874225	
	Time (sec)	87.48938298	26.249	
	homo-lumo gap (a.u)	0.1544400057	0.1640567053	
LiH	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-7.898788585	-7.899728236	
	Time (sec)	433.965961	138.2291181	
	homo-lumo gap (a.u)	0.1526107681	0.151307066	
LiF	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-31.50423604	-31.52945473	
	Time (sec)	51.324	33.99907994	
	homo-lumo gap (a.u)	0	0.0683704659	
LiCI	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-22.32183456	-22.32453313	
	Time (sec)	196.3624921	35.479	
	homo-lumo gap (a.u)	0	0.06168352193	

MgO	Functional:	lda	lda	
MgO	Basis:	1		
		dzvp	dzvp	
	Energy:	-78.75057618		
	Time (sec)	982.7888191	457.59	
	homo-lumo gap (a.u)	U	0.000165739456	
Ge	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-7.630077435	-7.643054214	
	Time (sec)	135.684011	34.521	
	homo-lumo gap (a.u)	0.00491107256	1.90E-05	
SiC	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-9.151123291		
	Time (sec)	271.8020539		
	homo-lumo gap (a.u)	0.1075686123		
BN	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-12.26747382		
	Time (sec)	254.463897	78.341	
	homo-lumo gap (a.u)			ring to converge? questionable.
AIP	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-8.398916597		
	Time (sec)	92.39292717		
	homo-lumo gap (a.u)	0.002936977675		

ZnS	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-70.44524994	-70.46667894	
	Time (sec)	554.0053611	222.405	
	homo-lumo gap (a.u)	0.1293346357	smearing	
GaAs	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-80.62453781	-80.62508416	
	Time (sec)	2490.429532	242.144	
	homo-lumo gap (a.u)	0.05780635655	smearing	
GaN	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-84.1080051		
	Time (sec)	1389.231176	85.643	
	homo-lumo gap (a.u)	0.003036608856	smearing	
ZnO	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-152.3815636	-152.3500246	
	Time (sec)	26289.7659	510.218	
	homo-lumo gap (a.u)	0.1453590745	smearing	
CdS	Functional:	lda	lda	
	Basis:	dzvp	dzvp	
	Energy:	-56.0492658	-56.07936939	
	Time (sec)	2037.210173	450.688	
	homo-lumo gap (a.u)	0.1797310264	smearing	