Breeding Values Jij=u +herol; + Ui + Gi · Observation: weight of animali in herd; · u; must be vandom, because cov(ui, ux)+0 if animals i and k are related · Example: animals i ad k are full-sist : · For animal k: Ykl = h + horole + u, + eke cor(ui, ux)+0, because of decomposition of breechip vehics ui - 1/2 us + 1/2 ud + mi? cov(ui, uie) ≠0 cov (usi, uk) = cov [1/2 45+ 1/240+14], [1/245+ 1/240+14]
= 1/4 var(us) + 1/4 var(us) = 1/2 Fix

provided s and d not related.