Computation of regression coefficient b = warly? a Genetic model: 41 = /4 + 41 + ejj O Decompose ej into a permanent point and a kinggingry eij = pei + tejj changes between different obsorations constant over all observations for animal i => yr = u+ u; + pe; + te; 1) Decomposition at the lever of variance: var(yi) = var (µ+ ui +pei +tei) we march = var (μ) + var(μ;) + var(ρε;) + var (te;)

+ to be easilises (+ 2cov(μ, μ;) + 2cov (μ, ρε;) + 2cov(μ, te;)

+ 2cov(μ, μ;) = var(u:) + var(p:) + var(k;) genetic additive vanhance = 54