a Additional Specification / ASSumptions for LTE - For each random effect, expected value and variance - covariance matrix must be specified - Random effects are: U,C, y E(u) = 0 } togethe with model E(e) = 0 $F(u) = E(X\beta + 2u + e)$ $E(y) = E(X\beta + 2ute) = X\beta$ var(u) = G } var(y) = 2G3+R=V cov(u,e)=0 cov(y,u) = ZG cov(y,e) = R (b) ver [y] = [qv zq BR] y v-262+R R & R y v-262+R E y = [XB]