Summary: Buf Animal Model

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Robbi: y= XB + 2n + e random residuols

Avandam breedy was of breedy was of all animals in pedigree

at animals in pedigree

Expected values: E[y] = [xB]

Expected values:

Warrance - Covariance Matrices: 
$$V \neq G \neq R$$
 $V \neq G \neq G \neq R$ 
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with  $G = A \cdot Gu^2$ 

$$R = I E^{2}$$

$$V = IGI^{3} + R$$

Solution with TIME:

$$\begin{bmatrix} X^T X & X^T Z \\ I X & I Z^T G^T \end{bmatrix} \begin{bmatrix} \hat{\beta} \\ \hat{\alpha} \end{bmatrix} = \begin{bmatrix} X^T Y \\ Z^T Y \end{bmatrix}$$