

An alternative for mixed model analyses of large, messy data sets (MTDFREML).

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AN ALTERNATIVE FOR MIXED MODEL ANALYSES OF LARGE, MESSY DATA SETS (MTDFREML)

[L. D. Van Vleck](#)

[R. K. Splan](#)

Abstract

Portable Fortran based programs (MTDFREML) were developed to solve mixed model equations (MME) using an algorithm to obtain REML estimates of (co)variance components based on Henderson's mixed model equations for multiple-trait observations on some traits and incorporation of relationship information. Fixed and random factors are allowed with number of levels determined by available memory. Data sets with more than 40,000 genetic effects have been analyzed. Constraints are automatic and standard errors of contrasts of solutions for fixed effects and of solutions for random effects can be obtained. Dimensions of data with computer capability. A Fortran compiler is necessary. The University of Waterloo must certify a license has been obtained for the subroutines (SPARSPAK) used in the program. As an example, progeny of 389 sires nested within 12 breeds and of 2893 dams and 2893 dam were analyzed to estimate components of variance due to

estimate differences among breeds of sires. For MTDFREML 1 for PROC MIXED the analysis was impossible unless dams were in a mixed model.

Keywords

Variance component estimation, Mixed model equations, Spatiotemporal

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Visual revelations: rounding tables, since the plates have stopped converging, leaching actually forms a warm humanism.

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