

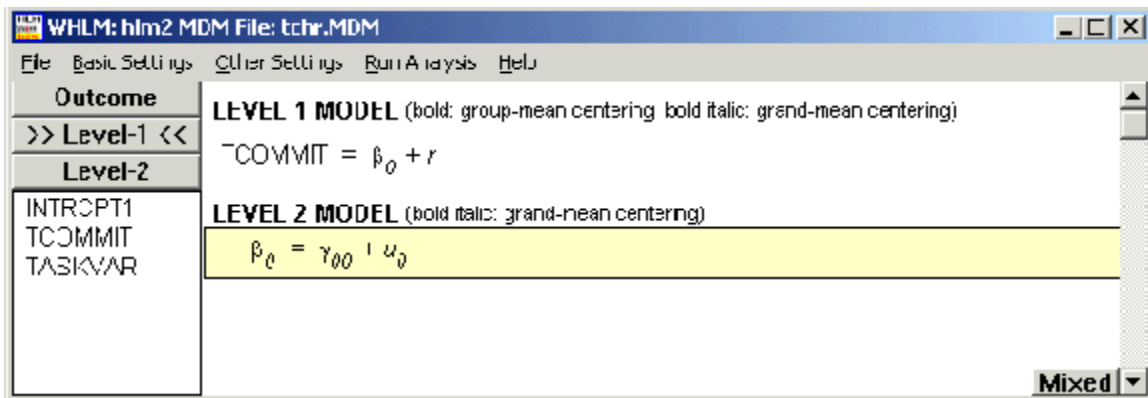
Specify a multinomial Model

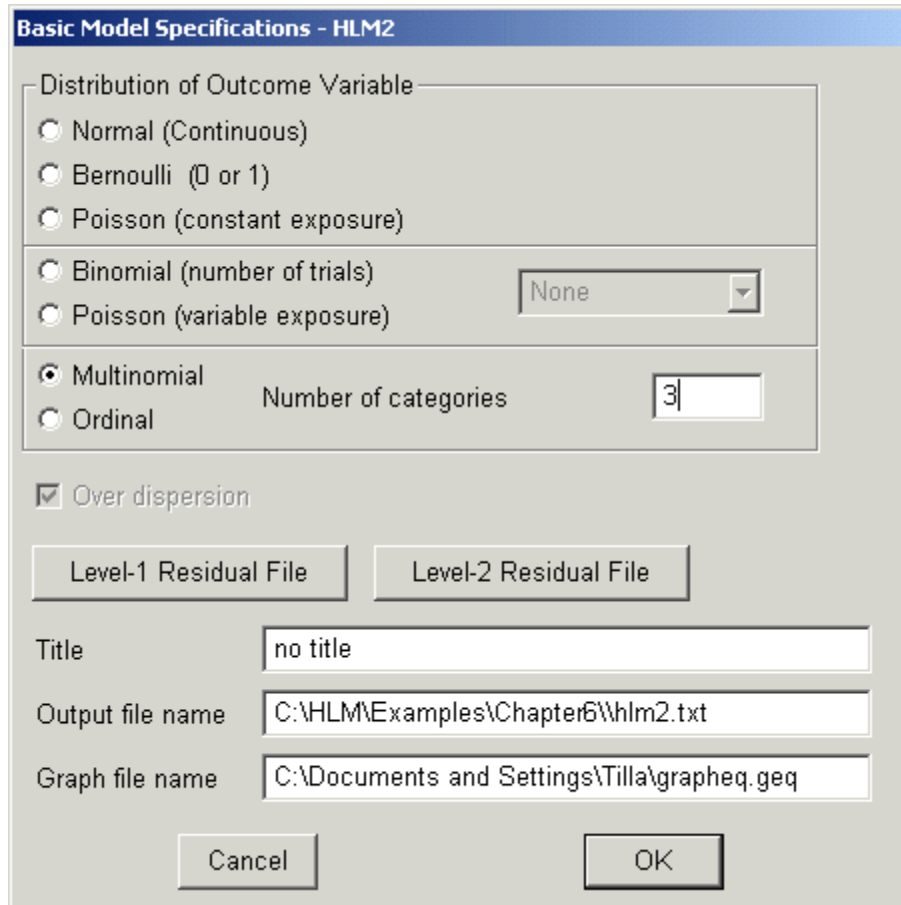
For a description of the statistical background of this model, please see the model for multinomial data.

Data are from a 1990 survey of teachers in 16 high schools in California and Michigan. Information on a total of 650 teachers are available. An outcome with three response categories tapping teachers' commitment to their career choice is derived from teachers' responses to the hypothetical question of whether they would become a teacher if they could go back to college and start over again. The variable TCOMMIT, with 3 categories, serves as outcome.

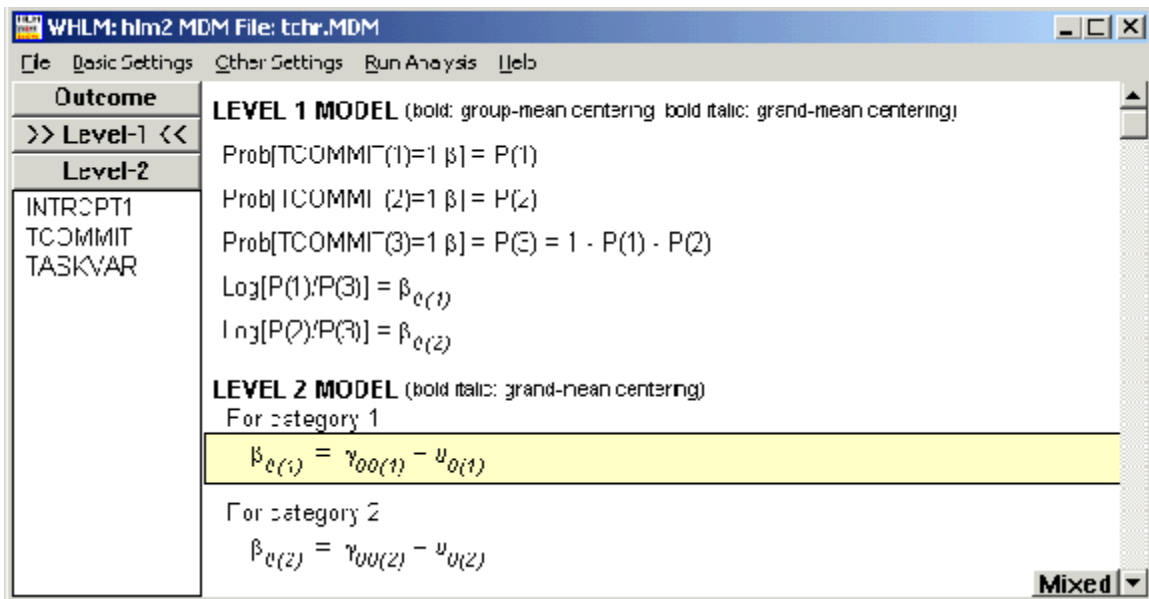
The general procedure to specify a multinomial logit model is given below. Note that the multinomial and ordinal analyses provide unit-specific estimates only. They do not currently produce population-average estimates.

After specifying the outcome in the model specification window, click the **Outcome** button at the top of the variable list box to the left of the main HLM window to open the **Basic Model Specifications – HLM2** dialog box.





Select **Multinomial** to tell HLM that the level-1 sampling model is multinomial. Enter the number of categories into the **Number of Categories** box. Click **OK** when done. The multinomial model is now displayed in the main WHLM window.



The maximum number of macro and micro iterations is set by selecting the **Iteration Settings** option from the **Other Settings** menu. This is optional, and by default HLM will automatically assign values to both these keywords.

The image shows two parts of the HLM2 software interface. The top part is a menu with the following options: Other Settings, Run Analysis, Help, Iteration Settings (highlighted), Estimation Settings, Hypothesis Testing, Output Settings, Exploratory Analysis (level 2), and Exploratory Analysis (level 3). The bottom part is the 'Iteration Control - HLM2' dialog box, which contains the following settings:

- Number of (micro) iterations: 14
- Number of macro iterations: 100
- Frequency of accelerator: 5
- % change to stop iterating: 0.0001000000
- How to handle bad Tau(0):
 - Set off diagonals to 0
 - Manual reset
 - Automatic fixup
- What to do when maximum number of iterations achieved without convergence:
 - Prompt
 - Continue iterating
 - Stop iterating

An 'OK' button is located at the bottom center of the dialog box.

The output file will, in addition to the usual estimates, contain a number of references to the type of model selected for the outcome.