

## Methods of Scoring

When scoring, you don't rerun the algorithm that was used to build the model. Instead, you apply the score code, that is, the equations or rules obtained from the final model, to the new data. Let's look at three methods of scoring your data.

The first uses a SCORE statement in PROC GLMSELECT to build and score a model in one step. This method is inefficient if you want to score more than once or use a large data set to build a model, because the model must be built from the training data each time the program is run.

The second method uses a STORE statement in PROC GLMSELECT to build an item store, and a SCORE statement in PROC PLM. With this method, you build the model and an item store only once, and then access the item store in PROC PLM to score new data as often as needed. Separating the model building from scoring is especially helpful if your model is based on a very large training data set or if you want to score more than once. One potential problem with this method is that others might not be able to use this code with earlier versions of SAS.

The third method uses a STORE statement in PROC GLMSELECT to build an item store, a CODE statement in PROC PLM to generate scoring code based on the item store, and a DATA step to run the scoring code. The resulting code is compatible with earlier versions of SAS, and you can share it with others without needing to share the item store.