SAS III: Accelerated and Efficient Programming Techniques

Course Summary

Description
The course is mostly lecture with some time for exercises, demonstrations and working on problems students bring to class.

Topics
- Basic Efficiency Techniques
- Space Saving Techniques
- Time Saving Techniques
- Data Access Techniques
- Table Lookup Techniques
- Efficiently Combining SAS Data Sets
- Assorted Advanced Topics

Audience
This course is designed for SAS users who have taken an introductory level course and want to further their SAS skills.

Prerequisites
Students should take ProTech’s Introduction to SAS before taking this course.

Duration
Three Days
SAS III: Accelerated and Efficient Programming Techniques

Course Outline

I. Basic Efficiency Techniques
   A. Executing only necessary statements
   B. Eliminate unnecessary passes of the data, read and write only data that you need
   C. Data storage efficiencies

II. Space Saving Techniques
   A. Reducing Observation Length
   B. Saving space by compressing SAS data sets
   C. Creating and using DATA step Views

III. Time Saving Techniques
   A. Introduction to Indexes
   B. Why use them
   C. Creating and Deleting Indexes

IV. Data Access Techniques
   A. Enhancements to SAS/ACCESS
   B. Using the Import / Export Wizard
   C. Using PROC IMPORT, DDE facility and Pass-Through Facility of PROC SQL

V. Table Lookup Techniques
   A. Introduction to Table Lookups
   B. Using Formats, Arrays, Indexed data sets, Arrays, and direct access to SAS data sets to perform table lookup
   C. Special functions used in Array processing.

VI. Efficiently Combining SAS Data Sets
   A. COMPARE procedure.
   B. SAS data sets
   C. Comparing two different SAS libraries

VII. Assorted Advanced Topics
   A. An introduction to the DATA step HASH and HITER components