#### Paper 008-2012

#### A Guide for Connecting Java to SAS® Data Sets

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#### ABSTRACT

This paper is written for Java programmers who want to access SAS data sets. We provide step-by-step examples to connect Java to SAS using three SAS technologies:

- the Base SAS® Java Object interface (Javaobj)
- SAS/SHARES
- SAS/ACCESS® to a third-party database

The first example sets up a Java class and then drives it from Base SAS. The second and third examples build a simple Java applet and then use Java Database Connectivity (JDBC) code and drivers to read data from a server. Each example is based on the Windows operating system using the sashelp.class sample data.

#### INTRODUCTION

Each programming language has its unique strengths. SAS reads and processes raw data efficiently and supports powerful statistical and analytic tools, often requiring only a few lines of code. Java, on the other hand, is a versatile Object Oriented language with a long list of third-party libraries developed on the Java Virtual Machine (JVM) and a widely-used Web platform.

SAS provides a number of connection methods to communicate with Java. The challenge of integrating any two (or more) software technologies, however, lies in lining up all of the pieces. Even practiced Java and/or SAS programmers may be left scratching their heads, thing to answer questions such as "Which technology should I use?", "Did I set this classpath correctly?" or "Am I using the correct drivers?".

We attempt to answer these and other basic questions using ground-up examples to access the sashelp class sample data set from Java. Sashelp class contains name, sex, age, height and weight information for 19 individual students.

#### BASE SAS (JAVAOBJ)

The easiest method for getting SAS data into Java is to instantiate a Java object from within SAS using the Javaobj construct. This method has the fewest prerequisites; all it takes is SAS version 9.1.3 or newer and a JVM installed and working.

This example is demonstrated using the Eclipse development environment, though a text editor and Java command line tools would work just as well.

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