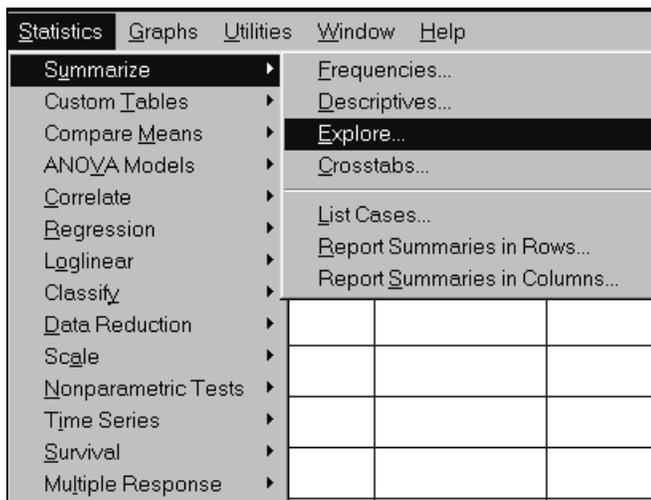# BREAKDOWN TIMES

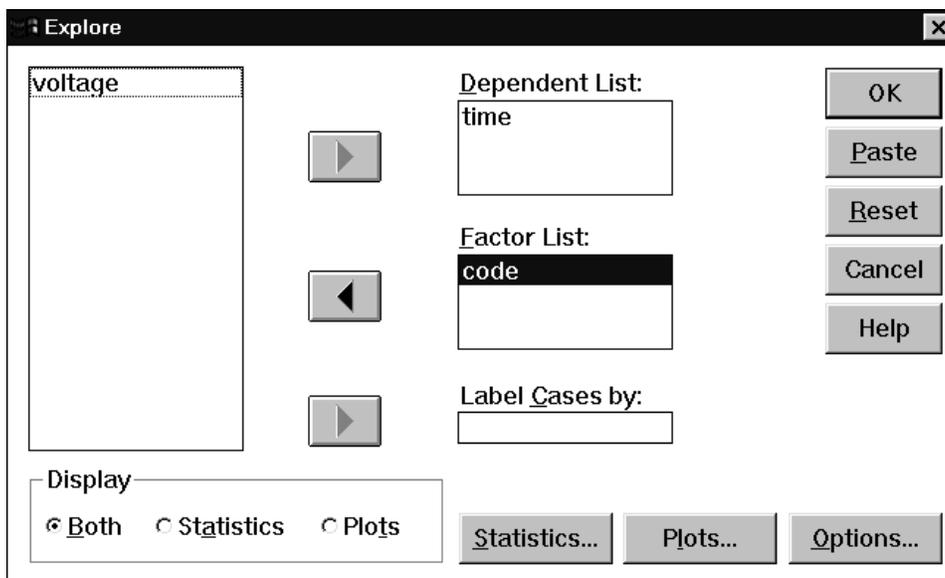## 11. Displaying and Describing the Data with SPSS

In this part, we will demonstrate how to use SPSS to produce the computer outputs we referred to in Sections 4 and 5. There are hyperlinks between the section and Sections 3 and 4 containing the statistical outputs.

Open the file *break.sav* with the data in the experiment. It consists of three columns, named *Time*, *Voltage*, and *Code*. The column *Time* contains the times to breakdown expressed in minutes, the column *Voltage* contains the voltage level (in kV), and the column *Code* contains the number of the group the observation comes from.
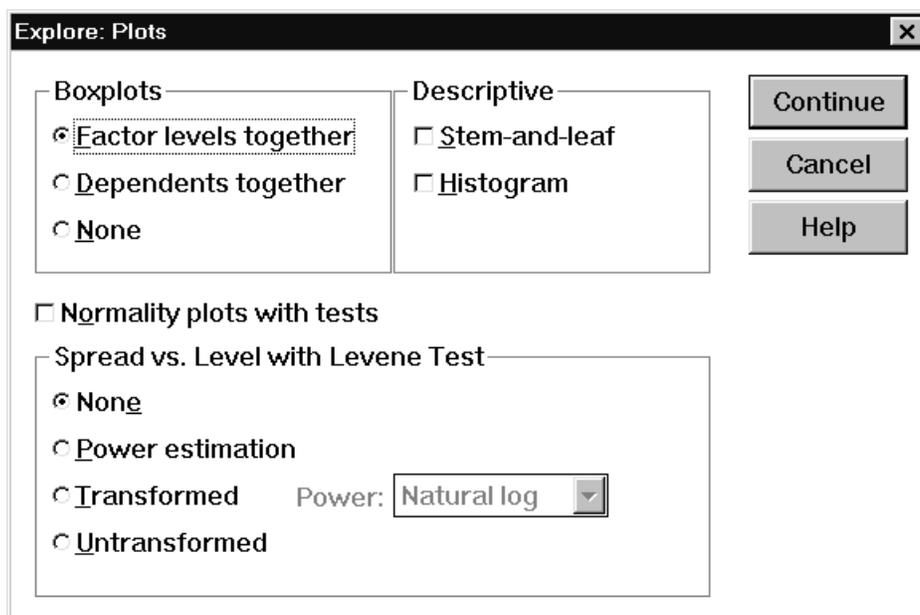
In order to obtain side-by-side boxplots of the breakdown times for the seven groups, and then the summary statistics for each group, click on *Statistics* in the main menu, select *Summarize*, and then *Explore* from the pull-down menu.

Fill out the *Explore* dialog box as follows:

In order to make sure that your output will include side-by-side boxplots, click on *Plots* and check the radio button *Factor levels together*.

The side-by-side boxplots and summary statistics will be displayed. In order to view the SPSS outputs click on the corresponding hyperlinks to **Section 4** and **Section 5**.