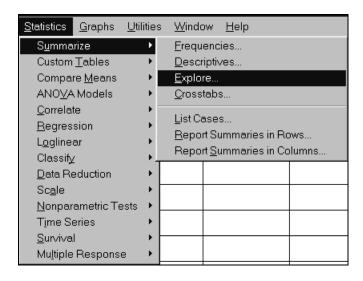
FAILURE TIMES OF BEARINGS

9. Displaying and Describing the Data with SPSS

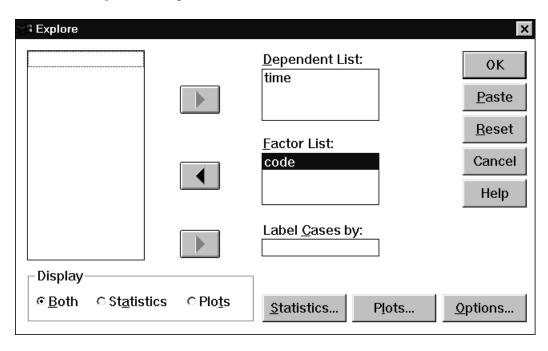
In this part, we will demonstrate how to use SPSS to produce the computer outputs we referred to in Sections 4 and 5. There are hyperlinks between the section and Sections 3 and 4 containing the statistical outputs.

Open the file *ex0619.xls* with the data in the experiment. It consists of two columns, named *Time* and *Code*. The column *Time* contains the failure times of bearings expressed in millions of cycles, the entry in the column *Code* contains the number of the group the observation comes from.

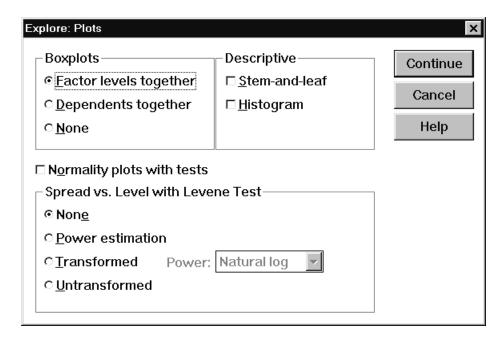
In order to obtain side-by-side boxplots of the failure times for the five materials, and then the summary statistics for each group, click on *Statistics* in the main menu, select *Summarize*, and then *Explore* from the pull-down menu.



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 4.1** and **Section 5**.