Error Handling Error Handling

## **Error Handling**

This section provides information on handling errors when using the debugger.

- Errors during Application Execution
- Errors during Debugger Execution

## **Errors during Application Execution**

You can use the debugger to analyze any Natural system error that interrupts program execution. With test mode set to ON (see *Switch Test Mode On and Off*) or DBGERR set to ON (see the *Parameter Reference* documentation), the debugger takes control if an error occurs. In this case, a **Debug Break** window similar to the example below appears:

Using the **List break** function, you can display the source code of the program at the position where the last statement was executed. The Natural error number is displayed in the **Message** column on the right-hand side of the screen and the corresponding source code line is highlighted.

You can then, for example, review the contents of the variables in the program to determine the reason for the error.

## **Errors during Debugger Execution**

If an error is detected while debugging an application, the debugger will terminate and invoke a window with an error message similar to the example shown below:

If you confirm this error message with an N (No - this is the default setting), the following happens:

- The debugger stops debugging and sets the test mode to OFF.
- The Natural runtime system ignores the error and continues executing the application.

If you confirm this message with a Y (Yes), the following happens:

- The debugger stops debugging and sets the test mode to OFF.
- The Natural runtime system reacts to the error and passes it to the application:

If an ON ERROR statement (see the *Statements* documentation) is used, the application determines how to proceed after an execution time error occurs. For example, in the case of a NAT3009 where a transaction is backed out of a database, the application can take appropriate action.

If no ON ERROR statement is used, the Natural runtime system terminates application execution and returns to a Natural command prompt.