

Finally we include the name of the file being loaded, minus the file name extension, in the wave names using the LoadWave /NAME flag which requires Igor Pro 9.00 or later. Given a file named "Data.txt", this creates waves named Data\_Stimulus, Data\_CellA, and Data\_CellB, the same as the preceding example.

```
Function/S GetColumnInfoStr3()
    String columnInfoStr = ""
    columnInfoStr += "N='Stimulus';"
    columnInfoStr += "N='CellA';"
    columnInfoStr += "N='CellB';"
    return columnInfoStr
End

Function LoadAndSetNames3(pathName, fileName)
    String pathName      // Name of symbolic path or "" to get dialog
    String fileName      // Name of file or "" to get dialog

    String columnInfoStr = GetColumnInfoStr3()
    LoadWave/J/A/O/P=$pathName/B=columnInfoStr/NAME={" :filename:_", "", 1}
    fileName
    if (V_Flag == 0)
        return -1      // Failure
    endif

    return 0           // Success
End
```

See **Using the File Name in Wave Names** on page II-142 for details on the /NAME flag.

## Exporting Data

Igor automatically saves the waves in the current experiment on disk when you save the experiment. Many Igor users load data from files into Igor and then make and print graphs or layouts. This is the end of the process. They have no need to explicitly save waves.

You can save waves in an Igor packed experiment file for archiving using the SaveData operation or using the Save Copy button in the Data Browser. The data in the packed experiment can then be reloaded into Igor using the LoadData operation or the Load Expt button in Data Browser. Or you can load the file as an experiment using File→Open Experiment. See the **SaveData** operation on page V-815 for details.

The main reason for saving a wave separate from its experiment is to export data from Igor to another program. To explicitly save waves to disk, you would use Igor's Save operation.

You can access all of the built-in routines via the Save Waves submenu of the Data menu.

The following table lists the available data saving routines in Igor and their salient features.

File type	Description
Delimited text	<p>Used for archiving results or for exporting to another program.</p> <p>Row Format: &lt;data&gt;&lt;delimiter&gt;&lt;data&gt;&lt;terminator&gt;<sup>*</sup></p> <p>Contains one block of data with any number of rows and columns. A row of column labels is optional.</p> <p>Columns may be equal or unequal in length.</p> <p>Can export 1D or 2D waves.</p> <p>See <b>Saving Waves in a Delimited Text File</b> on page II-178.</p>