

Chapter III-1 — Notebooks

Updating Igor-Object Pictures

The following command updates all pictures in the notebook made from Igor graphs, tables, layouts or Gizmo plots from the current experiment.

```
Notebook Notebook0 specialUpdate=0
```

More precisely, it will update all dynamic special characters, including date and time characters as well as Igor-object pictures.

This next fragment shows how to update just one particular Igor-object picture.

```
String nb = "Notebook0"
Notebook $nb selection={startOfFile, startOfFile}
Notebook $nb findPicture={"Graph0", 1}
if (V_Flag)
    Notebook $nb specialUpdate=1
else
    Beep           // can't find Graph0
endif
```

Igor will normally refuse to update special characters unless updating is enabled, via the Enable Updating dialog (Notebook menu). You can override this and force Igor to do the update by using 3 instead of 1 for the specialUpdate parameter.

Retrieving Notebook Text

Since you can retrieve text from a notebook, it is possible to use a notebook as an input mechanism for a procedure. To illustrate this, here is a procedure that tags each point of a wave in the top graph with a string read from the specified notebook. The do-loop in this example shows how to pick out each paragraph from the start to the end of the notebook.

```
#pragma rtGlobals=1 // Make V_Flag and S_Selection be local variables.
// TagPointsFromNotebook(nb, wave)
// nb is the name of an open notebook.
// wave is the name of a wave in the top graph.
// TagPointsFromNotebook reads each line of the notebook and uses it
// to tag the corresponding point of the wave.
Function TagPointsFromNotebook(nb, wave)
    String nb          // name of notebook
    String wave        // name of the wave to tag

    String name        // name of current tag
    String text        // text for current tag
    Variable p

    p = 0
    do
        // move to current paragraph
        Notebook $nb selection={(p, 0), (p, 0)}
        if (V_Flag)           // no more lines in file?
            break
        endif

        // select all characters in paragraph up to trailing CR
        Notebook $nb selection={startOfParagraph, endOfChars}

        GetSelection notebook, $nb, 2 // Get the selected text
        text = S_Selection // S_Selection is set by GetSelection
        if (strlen(text) > 0) // skip if this line is empty
            name = "tag" + num2istr(p)
            Tag/C/N=$name/F=0/L=0/X=0/Y=8 $wave, pnt2x($wave, p), text
        endif
```