

You may include asterisks in *matchStr* as a wildcard character. Note that matching is case-insensitive. See **StringMatch** for wildcard details.

ListSepStr is optional. If omitted it defaults to ";".

See Also

The **GrepList**, **StringMatch**, **StringFromList**, and **WhichListItem** functions.

ListToTextWave

ListToTextWave(*listStr*, *separatorStr*)

The ListToTextWave function returns a free text wave containing the individual list items in *listStr*.

See **Free Waves** on page IV-91 for details on free waves.

The ListToTextWave function was added in Igor Pro 7.00.

Parameters

listStr is a string that contains any number of substrings separated by a common string separator.

separatorStr is the separator string that separates one item in the list from the next. It is usually a single semicolon character but can be any string.

Details

The ListToTextWave function returns a free wave so it can't be used on the command line or in a macro. If you need to convert the free wave to a global wave use MoveWave.

For lists with a large number of items, using ListToTextWave and then retrieving the substrings sequentially from the returned text wave is much faster than retrieving the substrings using StringFromList.

The reverse operation, converting the contents of a text wave into a string list, can be accomplished using **wfprintf** like this:

```
WAVE/T tw
String list
wfprintf list, "%s\r", tw           // Carriage-return separated list
```

Example

```
Function Test(num, separator)
    Variable num
    String separator                // Usually ";"

    // Build a string list using separator
    String list = ""
    Variable i
    for(i=0; i<num; i+=1)
        list += "item_" + num2str(i) + separator
    endfor

    // Convert to a text wave and print its elements
    Wave/T w = ListToTextWave(list, separator)
    Print numpnts(w)
    for(i=0; i<num; i+=1)
        Print i, w[i]
    endfor
End
```

See Also

ListToWaveRefWave, **WaveRefWaveToList**, **wfprintf**

Using Strings as Lists on page IV-172, **StringFromList**, **MoveWave**, **Free Waves** on page IV-91

ListToWaveRefWave

ListToWaveRefWave(*stringList* [, *options*])

The ListToWaveRefWave function returns a free wave containing a wave reference for each entry in *stringList* that corresponds to an existing wave.

The ListToWaveRefWave function was added in Igor Pro 7.00.