AddFIFOData

AddFIFOData *FIFOName*, *FIFO_channelExpr* [, *FIFO_channelExpr*]...

The AddFIFOData operation evaluates *FIFO_channelExpr* expressions as double precision floating point and places the resulting values into the named FIFO.

Details

There must be one *FIFO_channelExpr* for each channel in the FIFO.

See Also

FIFOs are used for data acquisition. See **FIFOs and Charts** on page IV-313.

Other operations used with FIFOs: **NewFIFO**, **NewFIFOChan**, **CtrlFIFO**, and **FIFOStatus**.

AddFIFOVectData

AddFIFOVectData *FIFOName*, *FIFO_channelKeyExpr* [, *FIFO_channelKeyExpr*]...

The AddFIFOVectData operation is similar to AddFIFOData except the expressions use a keyword to allow either a single numeric value for a normal channel or a wave containing the data for a special image vector channel.

Details

There must be one *FIFO_channelKeyExpr* for each channel in the FIFO.

A *FIFO_channelKeyExpr* may be one of:
```
num = numericExpression
vect = wave
```

For best results, the wave should have the same number of points as used to define the FIFO channel and the same number type. See the **NewFIFOChan** operation.

See Also
FIFOs and Charts on page IV-313.

AddListItem

AddListItem(*itemStr*, *listStr* [, *listSepStr* [, *itemNum*]]**)**

The AddListItem function returns *listStr* after adding *itemStr* to it. *listStr* should contain items separated by *listSepStr*, such as "abc;def;".

Use AddListItem to add an item to a string containing a list of items separated by a string (usually a single ASCII character), such as those returned by functions like **TraceNameList** or **AnnotationList**, or to a line from a delimited text file.

listSepStr and *itemNum* are optional; their defaults are ";" and 0, respectively.

Details

By default *itemStr* is added to the start of the list. Use the optional list index *itemNum* to add *itemStr* at a different location. The returned list will have *itemStr* at the index *itemNum* or at ItemsInList(*returnedListStr*)-1 when *itemNum* equals or exceeds ItemsInList(*listStr*).

itemNum can be any value from -infinity (−Inf) to infinity (Inf). Values from -infinity to 0 prepend *itemStr* to the list, and values from ItemsInList(*listStr*) to infinity append *itemStr* to the list.

itemStr may be **""**, in which case an empty item (consisting of only a separator) is added.

If *listSepStr* is **""**, then *listStr* is returned unchanged (unless *listStr* contains only list separators, in which case an empty string (**""**) is returned).

listStr is treated as if it ends with a *listSepStr* even if it doesn't.

In Igor6, only the first byte of *listSepStr* was used. In Igor7 and later, all bytes are used.

Examples
```
Print AddListItem("hello","kitty;cat;")       // prints "hello;kitty;cat;"
Print AddListItem("z", "b,c,", ",", 1)        // prints "b,z,c,"
Print AddListItem("z", "b,c,", ",", 999)      // prints "b,c,z,"
```