StringSort

This is an embedded C module which will sort an array of strings into ascending alphabetical order. It was written by Peter Mather (http://www.thebackshed.com/forum/forum_posts.asp?TID=7370&PN=1).

Adding StringSort to MMBasic

To add the StringSort subroutine to MMBasic you must insert the following code somewhere in your BASIC program (you can use copy and paste from this document). The exact spot is not important but at the end of the program is typical.

Parameters

The StringSort subroutine (created by adding the above code) takes three parameters:

StringSort ArrayOfStrings\$(), NbrOfStrings, ElementLength

Where:

```
ArrayOfStrings = The string array to be sorted. Note that it is passed with empty brackets (ie, ArrayOfStrings$()).
```

NbrOfStrings = The number of strings to be sorted (ie, the number of elements in the array).

Note that unless the command OPTION BASE is used an array will start with an index of zero and contain one more element than that specified in the DIM command.

ElementLength = The amount of memory allocated to each element of the array. Normally it is 255 but it must match the parameter of the LENGTH qualifier if that feature of the DIM command was used when the array was dimensioned.

The string will be sorted according to the ASCII character set and is case sensitive (ie, "B" will come before "a").

Using the Function

This example creates a small array of three strings, populates the array and then uses StringSort as a command to sort it into alphabetical order:

```
DIM S$(2) LENGTH 20
S$(0) = "John"
S$(1) = "Aaron"
S$(2) = "Eric"
StringSort S$(), 3, 20
```

Note that OPTION BASE was not used which means that the base for arrays defaults to zero which in turn means that the array will start with an index of zero and contain one more element than that specified in the DIM command.