## IntegerSort

This is an embedded C module which will sort an array of integers into ascending numerical order. It was written by Peter Mather (<a href="http://www.thebackshed.com/forum/forum\_posts.asp?TID=7360&PN=1">http://www.thebackshed.com/forum/forum\_posts.asp?TID=7360&PN=1</a>).

## Adding IntegerSort to MMBasic

To add the IntegerSort function 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 IntegerSort command (created by adding the above code) takes two parameters:

IntegerSort ArrayOfInteger%(), NbrOfIntegers

Where:

```
ArrayOfInteger = The integer array to be sorted. Note that it is passed with empty brackets (ie, ArrayOfInteger%()).

NbrOfIntegers = The number of integers 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
```

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.

## **Using the Command**

This example creates a small array of three integers, populates the array and then uses IntegerSort to sort the array into numeric order:

```
DIM N%(2)
N%(0) = 100
N%(1) = 5
N%(2) = 50
IntegerSort N%(), 3
```

Note that OPTION BASE was not used which means that the base for an array will default 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.