

Change log for Micromite MMBasic Ver 4.5E

- Fixed an issue with the I²C slave receive buffer not being cleared when the I2C slave was restarted after previous activity.
See: http://www.thebackshed.com/forum/forum_posts.asp?TID=6599&PN=1
and http://www.thebackshed.com/forum/forum_posts.asp?TID=6527&PN=1&TPN=2
Note that CTRL-C does not close a communications channel because CONTINUE might be used to resume running the program. When RUN or NEW is used all communications and I²C activity will be stopped.
- Before starting I²C communications the I2C OPEN command will first check for a stuck slave and will try to clear it by pulsing the clock line.
- Fixed a bug in the KEYPAD command which prevented the editor from being run after the KEYPAD command reported an invalid pin error.
- Fixed a bug which caused the PWM command to not correctly configure the relevant PWM pins as outputs.
- Fixed a bug in the PIN() function which caused an invalid value to be returned when reading from a digital input pin. This bug was triggered by reading an analogue voltage from another I/O pin.

Change log for Micromite MMBasic Ver 4.5D

- Added the PULSEIN function to measure the width of an input pulse.
- The DS18B20() function now always generates an error if the sensor is disconnected (previously it could return a reading of -127.938 in some cases).
- The XMODEM receive function will now wait for the sender to stop sending data before reporting an out of memory error. This means that the error message will be visible in the terminal emulator window.
- Fixed a bug in the DS18B20() function that caused erroneous negative readings.
- Fixed a bug which caused the processor to reboot when the EOF() function was used.
- Corrected a bug which could cause a strange behaviour of MMBasic when SETPIN was used on pin 11 or greater. The effect was intermittent and rare.
- Fixed an error where the PORT() function returned the input pins in reverse order.
- Updated the manual to describe the PULESIN function.

Change log for Micromite MMBasic Ver 4.5C

- Corrected a bug which allowed the RND() function to return the number 1 (the specifications state that it must return a number from zero to less than 1).
- Fixed a bug that caused an error when the LENGTH keyword was used when defining a string array using the LOCAL command.
- Fixed a bug that kept resetting the variable used in the KEYPAD command to -1.
- Corrected a rare issue caused by some low cost USB-serial adapters that could cause V4.5 of the firmware to partially erase itself when there was a glitch in the power during start up. In that case the only solution was to re program the chip using a PIC32 programmer.

Note: V4.5 was the first release of MMBasic specifically for the Micromite