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millis Library

The millis Library calculate a time between tow instance in ms. It can be used like delay function, without blocking the CPU like the Delay_ms function.

Important:

The millis library use the TMR0, you can't use the TMR0 when you use this library.

Library Routines

- millis

millis

Prototype	**unsigned long** millis(**char** action);
Returns	▪ The time elapsed between the first call and the last call
Description	Calculate time elapsed between the first call and the last call
Requires	If action equal 0 millis function is used to save time, else millis function is used to calculate time.

Example	unsigned long time_RC0;
	.....
	While(1){
	time_RC0=millis(0); // Save time
	if(millis(1)-time_RC0>2300){ // blink LED on RC0 evry 2300 ms
	PORTC.RC0=~PORTC.RC0;
	time_RC0=millis(0); // Save time
	}
	}

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Library Example

The example blink LED on RC0 every 1000 ms, on RC1 every 1500 ms and on RC2 every 2000 ms, without blocking the CPU like the Delay_ms function.

```
void main() {
unsigned long time_RC0, time_RC1, time_RC2;
TRISC=0;
PORTC=0;
time_RC0=millis(0); // save_time
time_RC1=millis(0); // save_time
time_RC2=millis(0); // save_time
for(;;){
  if(millis(1)/*read_time*/-time_RC0>1000){   // blink LED on RC0 evry 1000 ms
     PORTC.RC0=~PORTC.RC0;
      time_RC0=millis(0);  // save_time
                  }

  if(millis(1)-time_RC1>1500) {    // blink LED on RC1 evry 1500 ms
     PORTC.RC1=~PORTC.RC1;
      time_RC1=millis(0);  // save_time
                  }

  if(millis(1)-time_RC2>2000){  // blink LED on RC2 evry 2000 ms
     PORTC.RC2=~PORTC.RC2;
      time_RC2=millis(0);  // save_time
                  }
                        }          }
```