millis()

[Time]

Description

Returns the number of milliseconds passed since the Arduino board began running the current program. This number will overflow (go back to zero), after approximately 50 days.

Syntax

time = millis()

Parameters

None

Returns

Number of milliseconds passed since the program started. Data type: unsigned long.

Example Code

This example code prints on the serial port the number of milliseconds passed since the Arduino board started running the code itself.

unsigned long time;

void setup() {

Serial.begin(9600);

}

void loop() {

Serial.print("Time: ");

time = millis();

Serial.println(time); //prints time since program started

delay(1000); // wait a second so as not to send massive amounts of data

}

Notes and Warnings

Please note that the return value for millis() is of type unsigned long, logic errors may occur if a programmer tries to do arithmetic with smaller data types such as int. Even signed long may encounter errors as its maximum value is half that of its unsigned counterpart.