



# PyroElectro.com - PyroEDU

*Introduction To Microcontrollers Electronics – Lesson 6: Polling and Interrupts*

## FORMULAS

The following formulas and information are meant to go with the online lesson found here:  
[http://www.pyroelectro.com/edu/microcontrollers/polling\\_interrupts/](http://www.pyroelectro.com/edu/microcontrollers/polling_interrupts/)

## EXAMPLE ARDUINO PROGRAM

In Lesson 6 we learned the two different ways of getting input, polling for it and using interrupts to get input.

The interrupt method of getting input ran some code that had priority attached to it. Whenever a push button was pressed, the priority code was executed.

```
lesson6 | Arduino 1.0.5-r2
File Edit Sketch Tools Help
lesson6
volatile int value = 1000; //Delay Integer

void setup(){
  //Set Digital Pin 13 As Output
  pinMode(13, OUTPUT);
  //Attach An Interrupt Module
  attachInterrupt(0, blink, RISING);
}

void loop(){
  //Set A Digital Pin 13 Logic 0
  digitalWrite(13, LOW);
  //Delay (value) number of milliseconds
  delay(value);
  //Set A Digital Pin 13 Logic 0
  digitalWrite(13, HIGH);
  //Delay (value) number of milliseconds
  delay(value);
}

void blink(){
  //Decrease Value by 100
  value = value - 200;
}

Done compiling.
Binary sketch size: 1,380 bytes (of a 32,256 byte maximum)
pyro.com/EDU
Arduino Uno on COM4
```

## ADDITIONAL INFORMATION

If you have any questions about the formulas or information found in this document, please feel free to head on over to the forums and ask us some questions!

<http://www.pyroelectro.com/forums/viewforum.php?f=25>