Motor rotation through AVR-GCC

Contents

***Abstract*—This manual shows how to rotate a motor using AVR-GCC.**

1 Components

1) Arduino board
2) DC Motor
3) Breadboard
4) Wires

2 Rotation

1) Install **subversion**

```
sudo apt update
sudo apt install subversion
```

2) Refer the pin diagram of L293D motor driver IC

```
Arduino/IDE/MotorControl/Figures/pin.jpg
```

3) Connect external 9V battery to the Vcc2 pin of L293D motor driver IC
4) Connect Vcc1 and IN1 pins to 5V output on Arduino and IN2 pin to GND.
5) The enable pin(ENA) of the L293D IC are connected to Arduino digital output pin(2).
6) Connect a motor to across OUT1 & OUT2 pins of L293D motor driver IC.
7) Go to your working directory and download the folder titled **codes** using the following command.

```
Arduino/AVR_GCC/MotorControl/Codes
```

8) Connect your arduino to the computer and open a terminal.
9) Open a terminal and go to the **codes** directory. Type **make**.
10) Now you can see the motor rotation.
11) If you open **main.c** in **geany**, you can execute the code by **Shift+F9**.