

EDB Real Hardware Simulation with Basmon

Part list

1x computer with COM-port

Goals


- Understanding Real Hardware Simulation with the EDB


In this first update for the Educational Development Board we like to introduce the Basmon Simulator. The Basmon Simulator gives you the ability of real hardware simulation at low cost.

All you have to do is open Basmon.bas from the EDB-CD, compile it and program it into the EDB. Instructions can be found in the EDB manual Chapter 2.3, available from www.mcselec.com/edb or the EDB-CD.

After you programmed Basmon.bas, open the bas file that you wish to simulate. We suggest you use EDBtest.bas. (Also available from the EDB-CD) Compile EDBtest.bas but DO NOT PROGRAM IT INTO CHIP!!


Instead start the Bascom Simulator by clicking 

Now click "Enable real hardware simulation" by clicking on: 

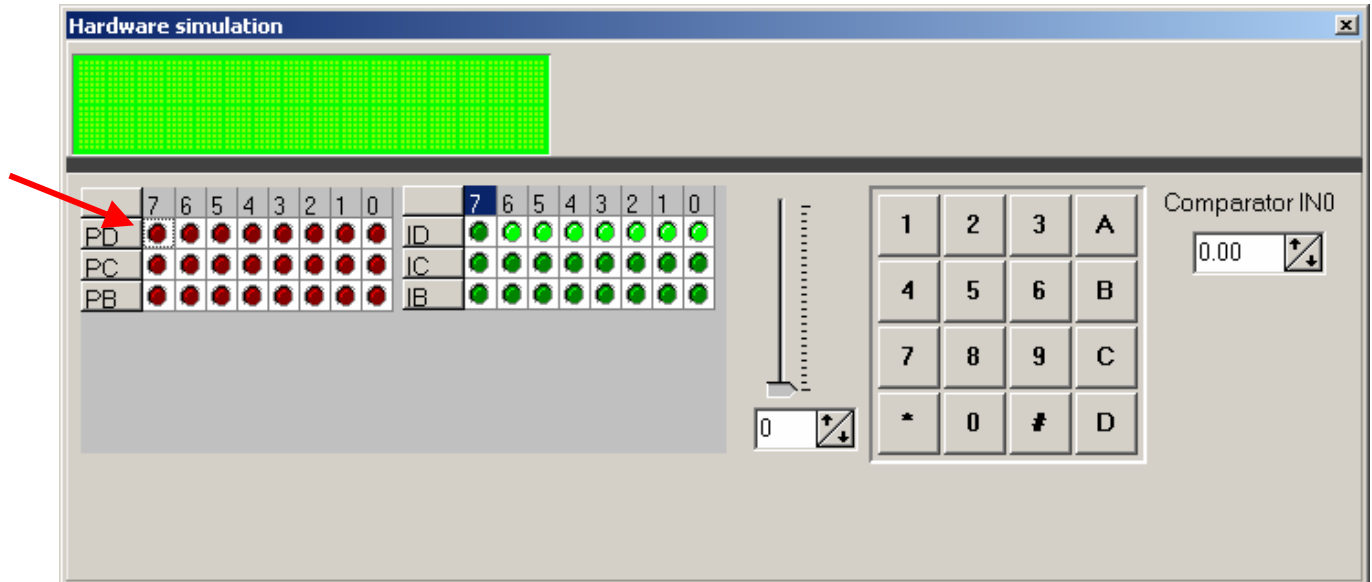
Then click "play" 

You can now see the simulator running the EDBtest.bas program, the controller runs a bit slowly but that is normal for this simulator. The Basmon simulator can thus only be used in non-time-critical applications.

Continued on the next page.

You can also manipulate the outputs, click “hardware simulation” 

You should now see this window:



You can change the status of the test led by clicking on PD7. (See figure)

You can also read/modify register/memory values, for more information on this general Bascom-AVR feature, please refer to Bascom Help.
(Search topic: “Program Simulate”)