

Real Time Monitoring

In the position and speed control experiments, the real time monitoring feature of Code Composer will be used. Real time monitoring enables you to observe the values of your variables and to make plots in real time. The necessary code to convert any project into a real time monitored mode has been already added into the skeleton codes. What you need to do is to learn just how to run and halt your program in real time.

Before running the program you have written, follow the steps below:

- 1- Add hardware breakpoint by going to Debug -> Breakpoints. Select H/W Break in "Breakpoint Type" section.
- 2- Then write MON_GO into the location section and press the **Add** button followed by the **OK** button.
- 3- Reset DSP (Debug -> Reset DSP)
- 4- Run the program. The execution of the program stops on the MON_GO line.
- 5- Enable Real time by following Debug -> Real Time Mode.
- 6- Bring the cursor on to the Watch Window (or graph window) and click the right button of the mouse. Select **Continuous Refresh** from the menu.
- 7- Finally, run the program again by going to Debug -> Run.

To stop the program and quit real time mode, follow the steps below:

- 1- Halt the program.
- 2- Deselect real time mode by clicking on "Real Time Mode" option under pull down menu called Debug.
- 3- You can rebuild your project now.
- 4- To restart your program in real time again, follow the steps beginning from the 3rd step explained in "how to run your program in real time" section above.