

Lab 13: LabVIEW DSP Module Examples

This lab includes three examples showing how the LabVIEW DSP Module can be used to run DSP graphical codes directly on a DSP target board without performing any C programming. These examples correspond to the waveform generation, digital filtering, and adaptive filtering labs covered in the previous chapters.

As stated earlier, to begin designing DSP systems by using the LabVIEW DSP Module, double-click on the LabVIEW Embedded Edition icon on the Windows desktop. After the appearance of the main dialog, select a proper target from the **Execution Target** pull-down menu. Throughout this lab, the C6713 DSK is used with the consideration that all the codes for DSK 6713 can also be run on the C6711 DSK and the SPEEDY-33 board without the need to make any modifications.

L13.1 Waveform Generation and Frequency Analysis

The first example consists of waveform generation and frequency analysis. Create a blank VI and locate a **Simulate Signal VI** (**Functions** → **Embedded Signal Generation** → **Simulate Signal**) in the BD to generate a waveform. Then, double-click on the VI to configure its parameters. In the configuration dialog, change the parameters as indicated in Figure 13-1. To observe the frequency characteristics of the generated signal, place a **Spectral Measurements Express VI** (**Functions** → **Signal Processing** → **Frequency Domain** → **Spectral Measurements**) in the BD and configure it as illustrated in Figure 13-2. Next, locate an **Analog Output** function (**Functions** →

Lab Manual For Labview On Dsp

M Tight



Lab Manual For Labview On Dsp:

The book delves into Lab Manual For Labview On Dsp. Lab Manual For Labview On Dsp is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Lab Manual For Labview On Dsp, encompassing both the fundamentals and more intricate discussions.

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 - Chapter 4: Lab Manual For Labview On Dsp in Specific Contexts
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