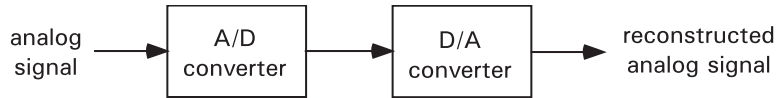Figure 2.1: A generic DSP system.
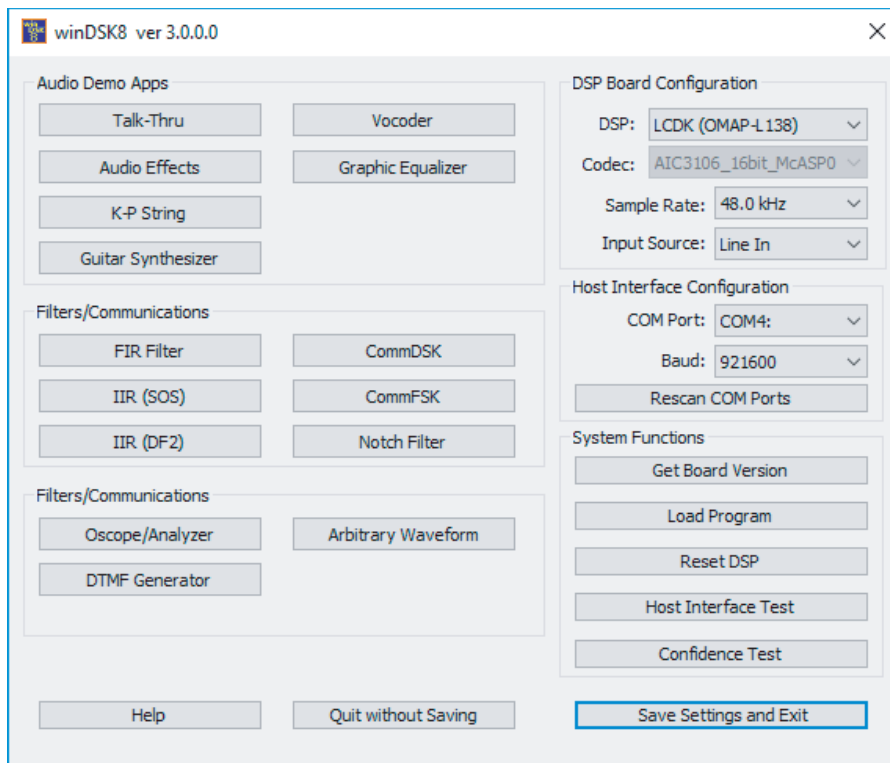
Figure 2.2: A talk-through system.

Figure 2.3: The main winDSK8 user interface. Clicking the upper left button will load the Talk-Thru application.
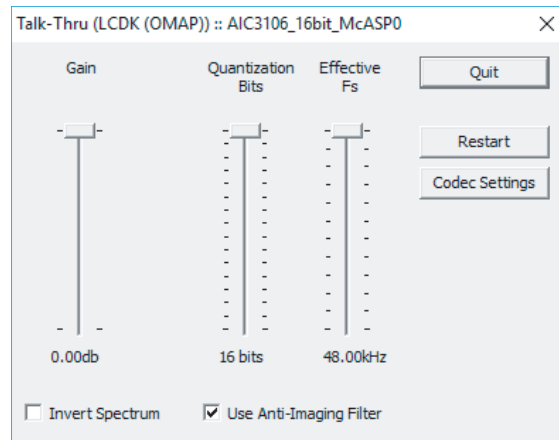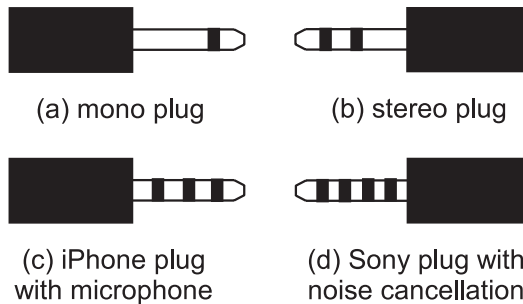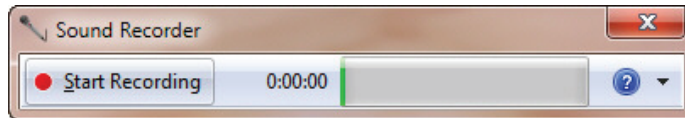
Figure 2.4: winDSK8 running the Talk-Thru application.

002x004.eps

(a) mono plug

(b) stereo plug

(c) iPhone plug
with microphone

(d) Sony plug with
noise cancellation

Figure 2.5: Various types of audio mini-plugs used with devices such as MP3 players and CD players.

002x005.eps

(a) Included with Windows XP

(b) Included with Windows Vista, 7, 8, 8.1

Figure 2.6: The Sound Recorder program included in various versions of Windows.
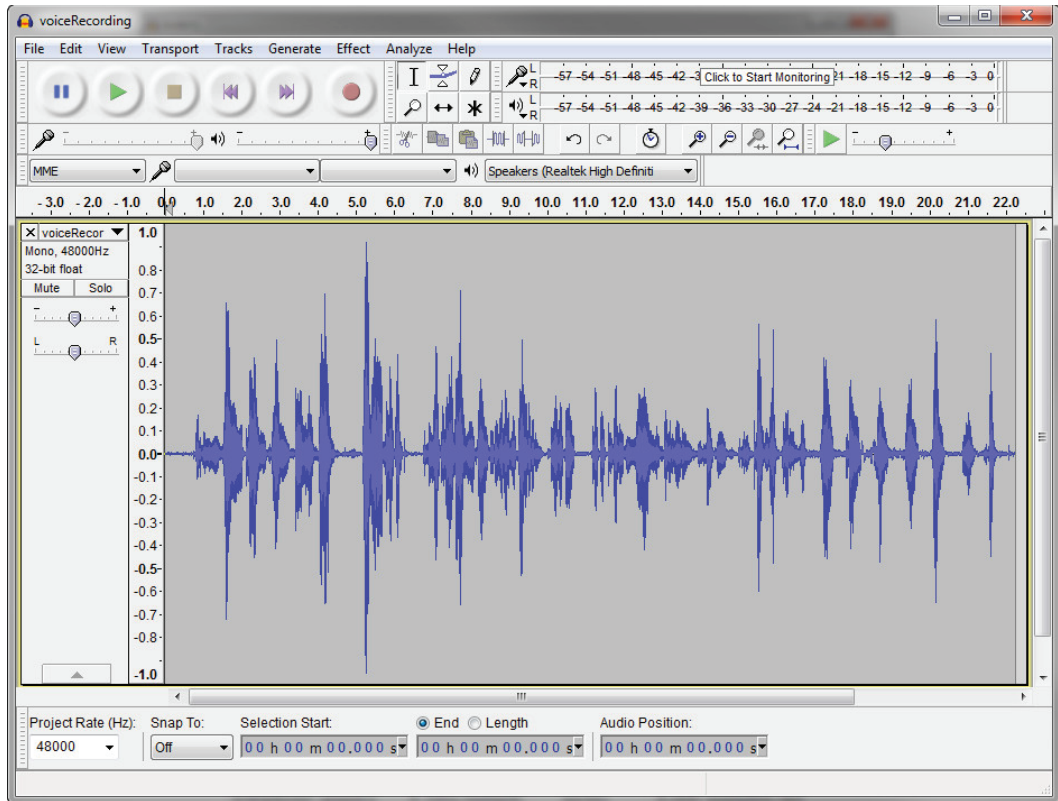
002x006.eps

Figure 2.7: A freely available sound recorder, mixer, and editing program called Audacity.
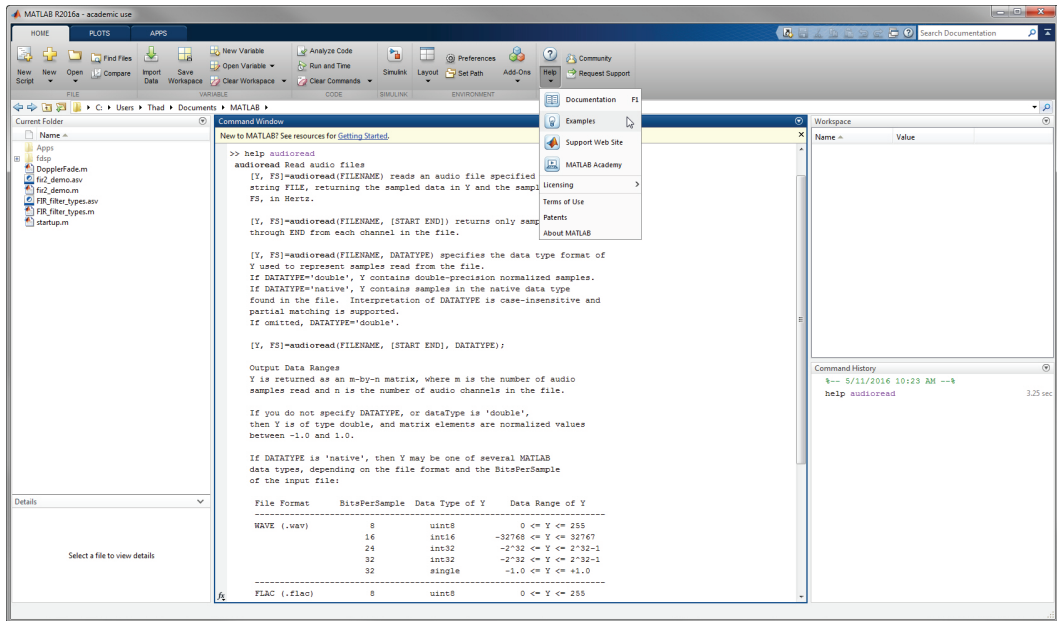
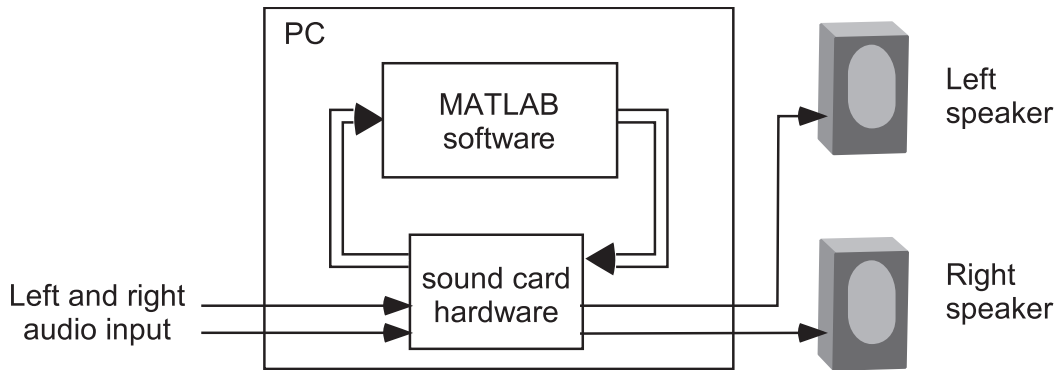Figure 2.8: MATLAB command window with the help pull-down menu open.
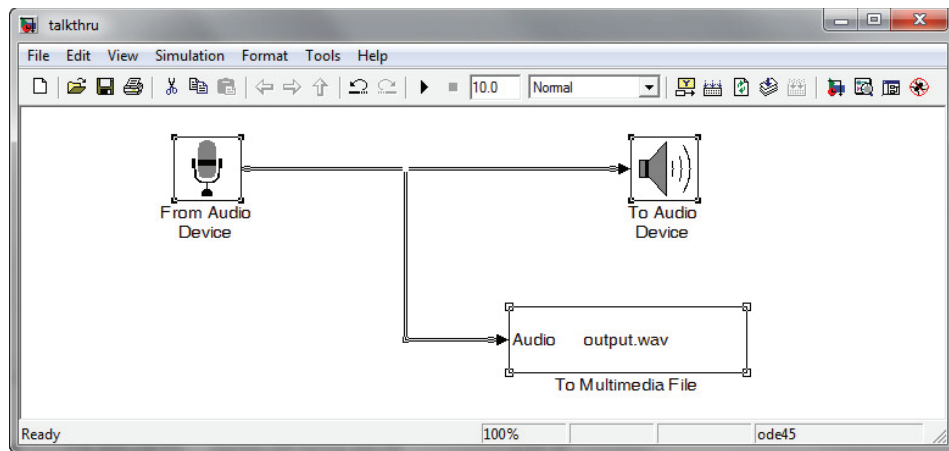
Figure 2.9: MATLAB interface to the PC sound card.

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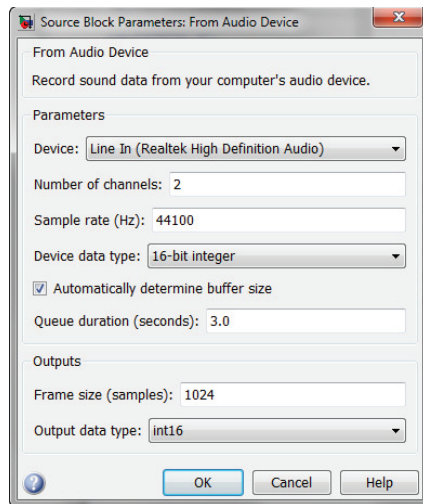Figure 2.10: Simulink model of a PC-based talk-through system.

002x010.eps

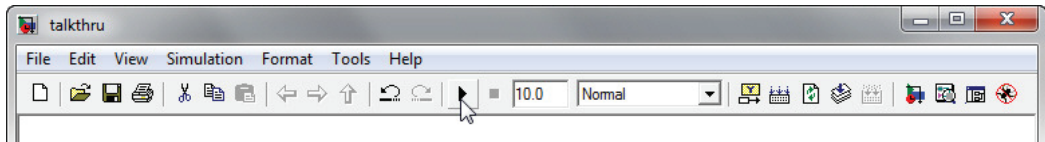Figure 2.11: Block parameters from the wave device in Figure 2.10.

Figure 2.12: Click on the start simulation icon on the Simulink toolbar.

002x012.eps