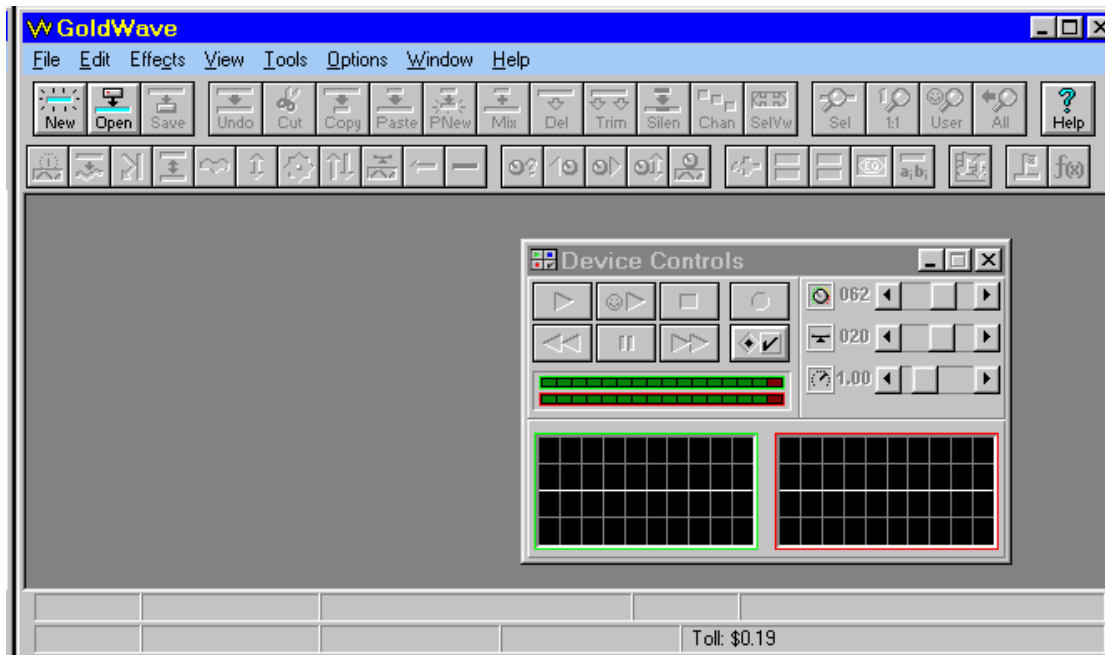


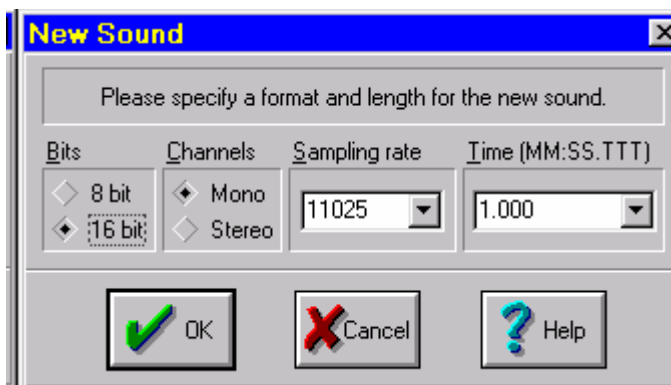
USING GOLDWAVE SOUND SOFTWARE

GoldWave is a versatile freely usable (shareware) software, which is able to convert the sound signals to a format that can be used in Matlab.

GoldWave is started by double-clicking the goldwave.exe -file that is currently placed in the hard disk d:\. After started the .exe -file you should see the following:

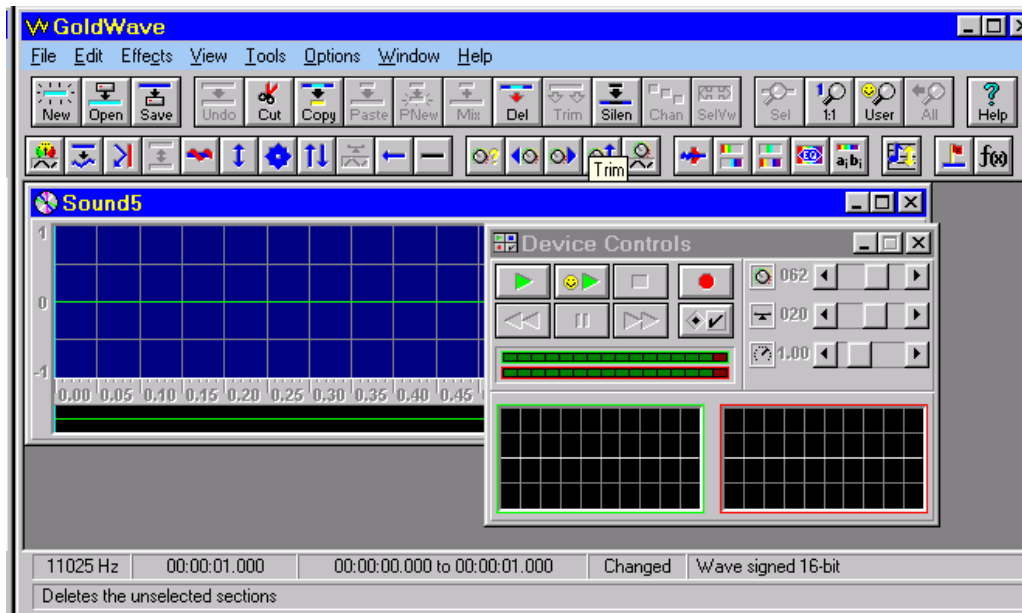


The recording of a sample is started by clicking the "New" -button in the toolbar. The properties window will open:

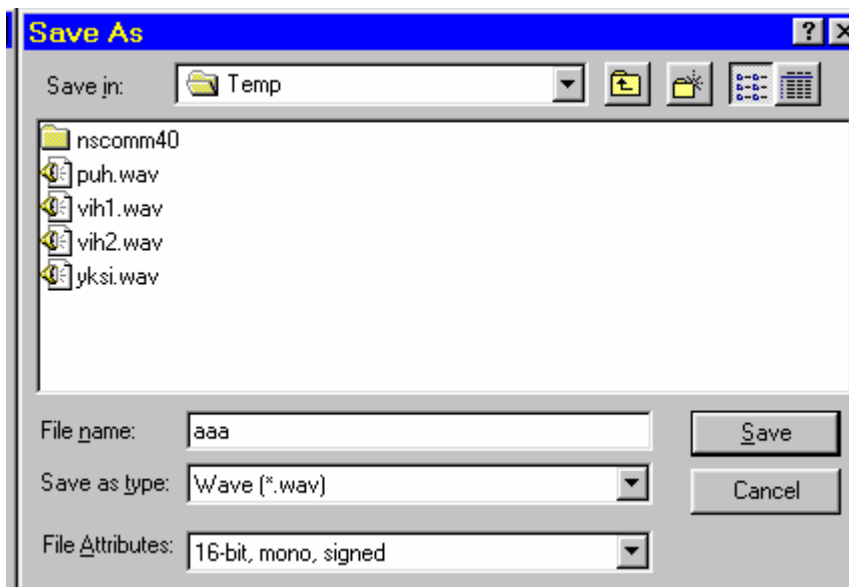


Adjust the settings of the sample as shown in the figure (i.e. 16 bit sample of 11025 Hz sampling frequency, mono sound, and 1 second duration). At the end click the "OK" -button.

Now you should see the following:



The recording starts by clicking the red record -button of the Device Controls window. While recording the sample you can see the oscilloscope illustration (time domain representation) of the signal. After you have recorded the sample the result can be seen in Sound window. Try the recording for a couple of times so that the level of the signal is convenient (no distortion i.e. cutting present). You can redo the sound sample simply by recording on the previous sound. When you are satisfied with the sample save it by choosing Save from the File-menu:



Check that the "Save as type" and "File Attributes" correspond the ones shown in the Figure. Change the target directory as D:\Student\ if needed and name the file as "sound".

The corresponding filename is called in Matlab's m-file. The examining of the sound signals is fast easy just switching between Matlab and GoldWave.