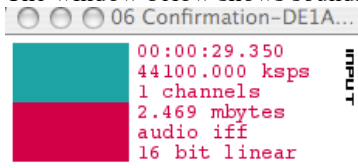


025:250 Composition: Electronic Media I

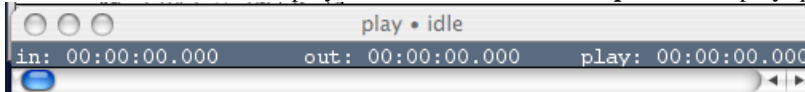
Fall 2004

Basic Operations in SoundHack

1. Power up the studio, bring up Mackies faders 1, 2, 9, 10, and send these to desired busses and outputs.
2. Find or create a mono or stereo (interleaved) soundfile. Open the soundfile in **SoundHack** as follows:
 - a) Launch **Soundhack** from the dock.
 - b) Select a select a soundfile from File>Open. Two windows will appear.
 - c) The window below shows soundfile information.



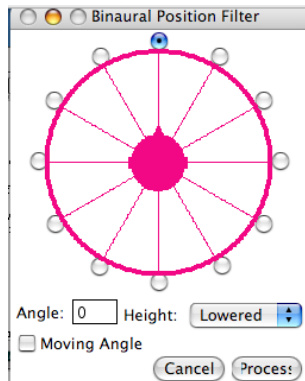
- d) The window below shows playback information. Press **spacebar** to play; press **return** to stop.



2. The **Hack** menu displays the following functions:

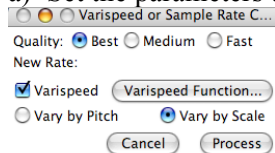
- a) Binaural Filter
- b) Convolution
- c) Spectral Dynamics
- d) Mutation
- e) Phase Vocoder
- f) Varispeed
- g) Spectral Extractor
- h) Normalize

3. The **Binaural Filter** looks like this:

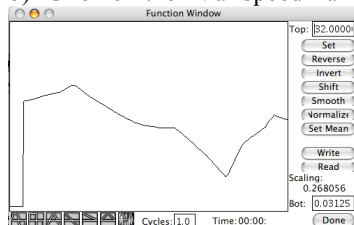


4. Use the **Varispeed** function as follows.

- a) Set the parameters to those shown below:

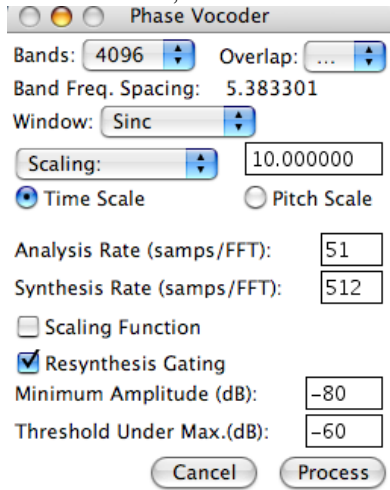


- b) Click on the “Varispeed Function”. A window like the one below will appear:



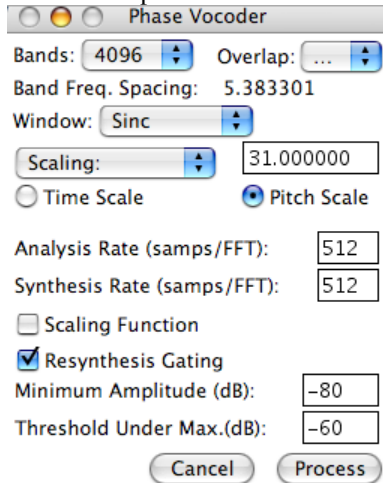
- c) Click and draw in the edit window. Press “done.”

- d) Return to the Varispeed window and select process.
4. To use the **Phase Vocoder**, do the following:
- a) From the menu, select Hack>Phase Vocoder. A window like the one below will appear.



- b) Note that **Bands** = 4096, **Overlap** = .5x, **Window** = Sinc, **Scaling** = 10, **Time Scale** is checked, **Resynthesis Gating** is checked. Click **Process** to create a new processed file.

- c) To raise the pitch of the sound 31 semitones higher, enter the values shown below:



- d) Note that **Semitone Shift** = 31 and **Pitch Scale** is checked.