

INART 258 Lab 4

Sends, Busses, and Resonant Filters

Lab 3 involved the use of an Insert effect. This lab introduces a more flexible methodology using Sends and Aux tracks.

Audio will be sent from your Audio Track to an Auxiliary Track, where an effect will be applied. The audio can be controlled from both the Audio Track and the Aux track.

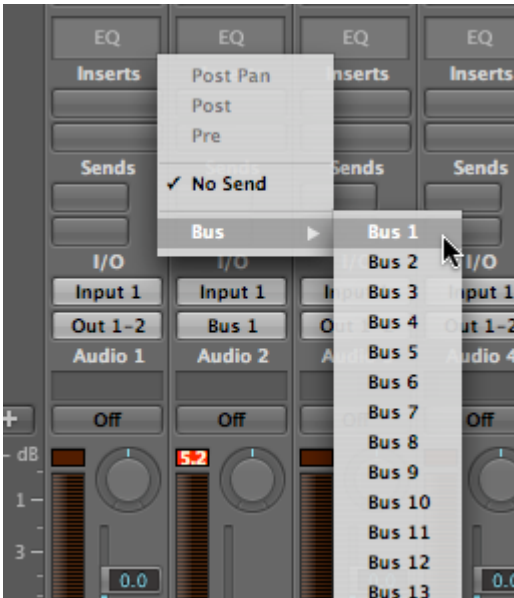
1) Create your audio track(s) as in Labs 2 and 3.

2) Activate the Mixer window as in Lab 3. You may also wish to go to the Mixer Window for a “floating” mixer.

3) Send the audio from a track to an Aux track

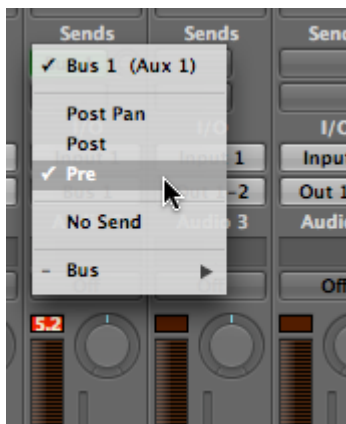
Go to the Audio Track’s channel strip.

Click and hold one of the Send slots.
Select a Bus number.



4) Make the Send Pre-Fader

Click and hold the Send tab at your audio track, which is now marked by your chosen Bus. When the menu appears, select **Pre** (for Pre-Fader Send).



REMEMBER:

Never run your Logic Express projects from a CD-ROM, a USB memory stick, or from your U-drive!

5) An AUX track appears in the mixer, with a number that matches your Bus number.

The audio from this track will now be tapped and sent to the Aux track before any volume levels are set on the Audio Track.

The Send level may be adjusted with the knob that appears to the right of the Send slot.

If you don't turn up the Send level, nothing will be sent to the Aux track.



6) Add an effect to the Aux Track

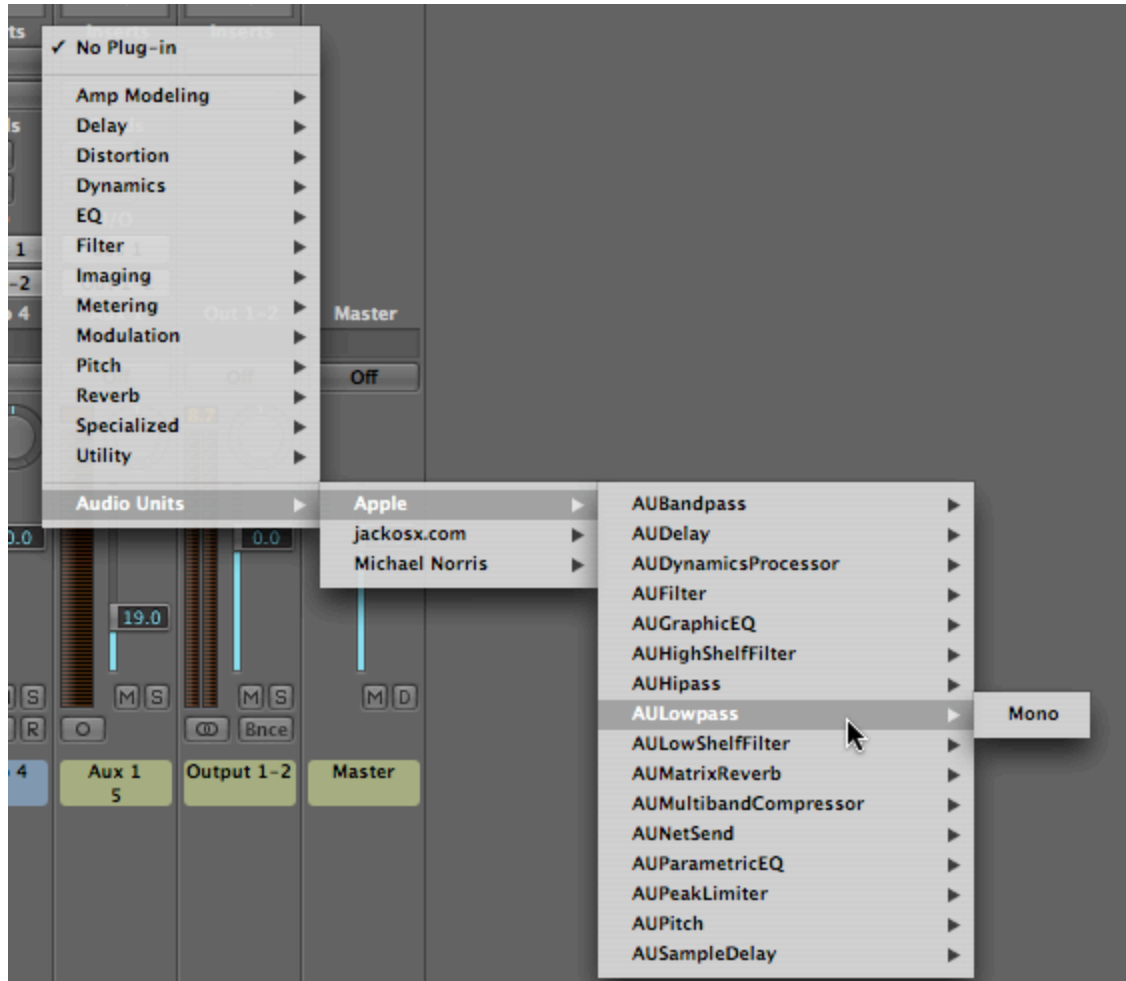
At the Aux Track, click and hold one of the Insert slots to apply an effect to the Aux Track.

This creates two versions of the audio: the “dry” version on the Audio Track, and the “wet” version on the Aux Track. By adjusting the levels of the two tracks, the wet-dry balance can be adjusted.

Another advantage is that multiple tracks can have Sends to the same Aux, so that a single instance of an effect can be applied to each, which is more efficient computationally than applying the same Insert effect to multiple tracks.

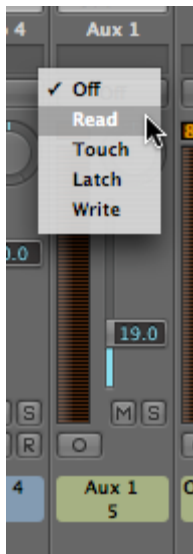
For this lab, use at least one of the following three filters:

AUHipass
AULowpass
AUFilter.



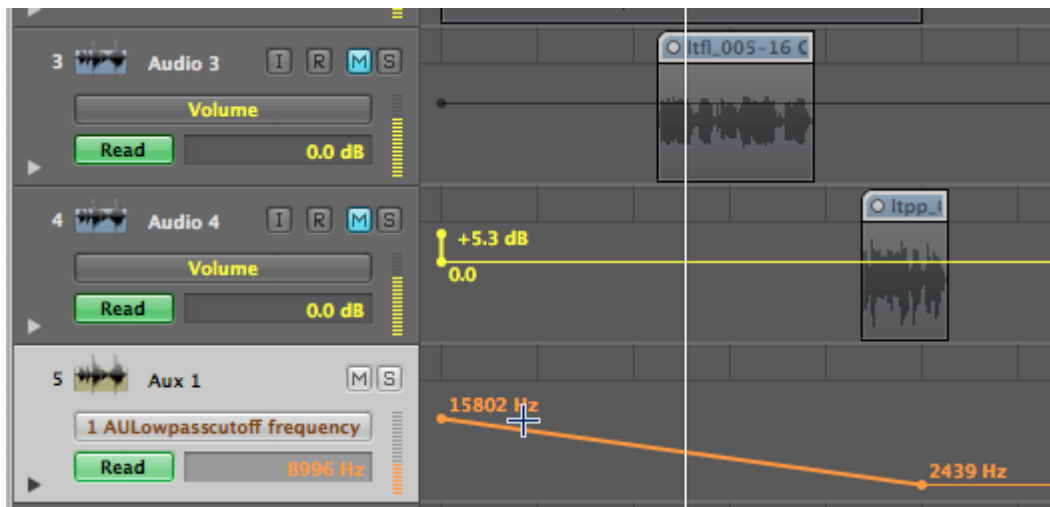
7) Automate the filter parameters

Go to the Aux track.
Click and hold the button above its Pan knob.
Select READ from the pulldown menu.



The Aux track now appears in the Arrange Window.
Parameters of the effects applied to the Aux track may now be selected from the Automation pulldown menu for the Aux track in the Arrange window.

Create envelopes for your effect parameters so that they change over time.



8) Save your sequence as a stereo audio file

Go to **File -> Bounce** to bounce your Project as a consolidated audio file.

Name your file accordingly, choose a destination for the file.

Be sure that the End Position (measure : beat : sub-beat : clocktick) encompasses the length of your project.

Set the formatting pulldown menus to match those shown in the figure:

Destination: PCM
File Format: AIFF
Resolution: 16 bit
Sample Rate: 44100

Bounce your file and you will have a stereo AIFF file, suitable for burning to an audio CD.

If you wish to save your file as an MP3, repeat the above steps, but click the Destination box MP3 instead of PCM. This will create an MP3 bounce of your file.

