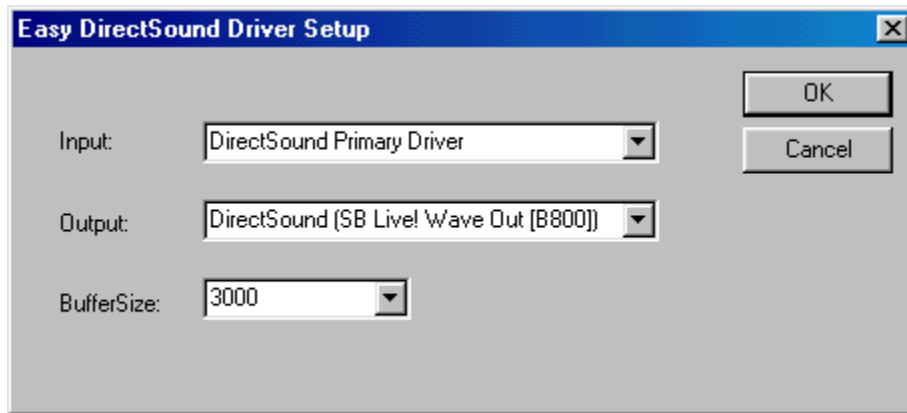# EASI DirectSound Driver Setup

The EASI DirectSound Driver Setup allows you to configure the DirectSound drivers installed in your system for the use with Logic Audio.

The EASI DirectSound Driver Setup is very easy to use: Just select the appropriate DirectSound driver of your audio-hardware for the input and output. Finally you just have to adjust the buffer size.

The buffer size

The combination of operating system, sound card drivers and audio hardware often results in time delays, which can affect Logic Audio's response time in a negative way. This delay, also called latency, is system-inherent and cannot be fully avoided. The latency is fully dependant on the buffer size: the smaller the buffer size, the smaller is the latency; the bigger the buffer size, the greater the latency.

For example a small buffer size will result in better sounding playback of volume changes. But if buffer size is set too small, the computer and operating system might not be able to perform all tasks "in time", resulting in short dropouts and unwanted noises. As a rule of thumb one can say: faster computers and good audio hardware allow for smaller buffer sizes at stable system performance.

Optimizing buffer size

The default settings of buffer size aim at stable and trouble-free system performance. However, if you are using a fast computer and good audio hardware, you can diminish the latency of your system by experimenting with the buffer size. The optimization of this parameter is not absolutely necessary to provide full functionality in Logic Audio. Only experienced users should use this function, since wrong buffer size settings can cause problems during audio playback. So for proper optimization, it is necessary to find a good balance between low granulation and safe audio playback performance.

Proceed as described below: Make sure that Logic Audio is running stable. Take your time! Lower the buffer size one step. Go back to Logic Audio and test the audio playback. If all audio is played backwithout problems, you can try to further diminish the granulation value. Don't forget the previous value. If dropouts or other problems occur during audio playback, choose a higher granulation value again.