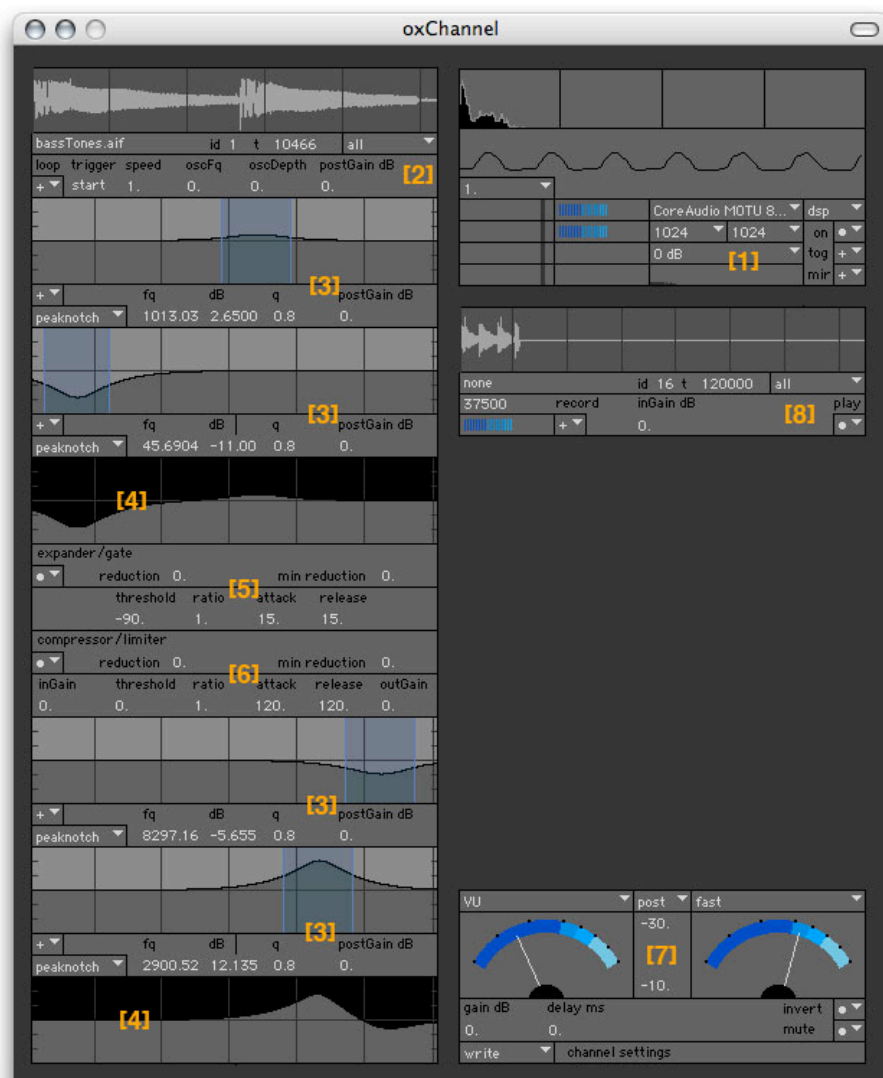


oxChannel: Version 1.3

Description: sampling channel strip, with four multifunction equalizers and dynamic processing

Installation: A Max/MSP Collective is a cross-platform application that provides digital signal processing tools within the Max/MSP Runtime application. To use a Max/MSP Collective, first, start the Max/MSP Runtime application; second, open the desired Collective (.mxf) file from the Max/MSP Runtime application File menu. The Max/MSP Runtime application for Macintosh can be found here: <http://www.cycling74.com/download/maxmspruntime462.dmg>. The Max/MSP Runtime application for Windows can be found here: <http://www.cycling74.com/download/maxmspruntime462.zip>.

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1: Master Audio Controls

This is the main audio control interface. Press the space bar to toggle audio processing. Audio processing must be activated with the space bar for any sound to be heard. A circle next "on" indicates that audio processing is inactive; a plus indicates that audio processing is active. When the "toggle" check-box is selected (by default) audio processing can be turned on and off with the space bar. To the left of these controls are drop-down menus to select audio drivers and input and output vector sizes. The four sliders on the left of this interface control the main outputs of channels 1 through 4. These sliders can be adjusted to set master output levels. The "0dB" drop-down menu can be used to change all output levels simultaneously. If additional audio controls are necessary, the "dsp" drop-down in the upper right corner can be pressed to open a window with additional options.

2: Sample Player

This interface allows loading an audio file for playback. Selecting "replace" from the drop-down menu on the right of the interface will provide the user with a file-dialogue to select an audio file. Press the "start" button, under the "trigger" label, to play the sample. To loop the sample, select the plus from the drop-down menu under the "loop" label. Playback speed can be adjusted with the number-box labeled "speed" (where 1 is forward, -1 is backwards). Playback speed may be modulated by altering oscillation frequency and depth ("oscFq" and "oscDepth"). Output level can be adjusted with the "postGain dB" control.

3: Variable Filter

This interface allows numerous different filter shapes to be selected and configured. By default, processing is not active: select the plus from the drop-down menu to turn on processing. Filter shapes can be selected with the drop-down menu in the lower left. Available filter shapes include "lowpass", "highpass", "bandpass", "bandstop", "peaknotch", "lowshelf", "highshelf", and "flat". The filter parameters can be altered by clicking and dragging in the filter display, or by using the labeled number boxes ("fq", "dB", "q", and "postGain dB").

4: Combined Filter Display

This interface illustrates the combined shape of the two filters located above the display. The filter shape is only displayed when the filters are active (not bypassed).

5: Expander and Gate

This interface configures an expander and gate dynamics processor. By default, processing is bypassed: select the plus from the drop-down menu to active processing. Threshold, ratio, attack, and release can be adjusted with number boxes.

6: Compressor and Limiter

This interface configures a compressor and limiter dynamics processor. By default, processing is bypassed: select the plus from the drop-down menu to active processing. Input gain, threshold, ratio, attack, release, and output gain can be adjusted with number boxes.

7: Amplitude Display

This interface illustrates the amplitude of the output signal with two configurable meters. Drop-down menus permit selecting alternative meter types. Additional controls at the bottom allow adding gain, delaying, inverting, and muting the signal.

8: Recorder

This interface allows the recording of real-time audio into a buffer. This buffer can then be written as an AIFF audio file, allowing the output to be stored and used with other software. To begin recording, select the plus with the drop-down menu under the "record" label. Recording can be stopped by selecting a circle from the same menu. Recording will automatically shut-off after the recorder has reached its maximum duration, set by default to 150 seconds. To write an AIFF file of the recorded audio, select the drop-down menu on the left (with default message "all") and choose "write".