Strive User Manual

Speo

Version 1.0.0

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1 Overview

Strive is a creative filtering effect. At its heart are 64 bandpass filter stages. The gain of each filter stage is controlled by a sample, whose spectral content is analyzed on loading. Using the WAVE knob in a similar way to wavetable synthesis, we can scroll through the sample and change the gains of the filter stages. The SHIFT and SQUEEZE knobs can be used to move the cutoff frequencies of all filter stages.

The right stereo channel can be shifted with an offset from the left using the STEREO OFFSET knob. WIDTH controls the Q of the filter stages, MIX adjusts the prevalence of the effect. The amount of active filter stages is set using COUNT. The dB falloff of each filter stage is set using SLOPE. The type of the filter stages can be switched from bandpass to peak using the PEAKS button.

2 Tables

The audio file you load as a table will be analyzed in a similar way that a vocoder analyzes it's modulator signal. The resulting table of gain values for each filter stage can be scrolled through with the WAVE knob. You can move through the table at varying speeds, forward or backward, to find an interesting filter response. Loading a sample is as easy as dragging and dropping an audio file onto the device. You can also use the sample browse group above the table name display.

You can crop the sample using the edit button in the table name display. Use the clear button to reset to the initial table.

3 Performance

Strive allows for up to 64 filter stages with up to 16 poles each. Many machines will not manage this workload in a reasonable time resulting in clicks and audio dropouts. Switching on PEAKS increases the workload even further, because the stages cannot be as efficiently parallelized anymore. In general, you should avoid setting the COUNT to 64 and the SLOPE to 96 at the same time.

If your machine can handle it, such settings make for fun experimentation. However, interesting and high quality results can be achieved with few filters and poles.

4 Band Offsets

By dragging along the display showing Strive's filter response, 8 band gain offsets can be set. Ctrl dragging or clicking will reset the offsets. When more than 8 filters are used, a single offset will affect multiple filter stages. These offsets are useful to fine-tune your frequency response.