DISTORTICON

Distortion effect plugin with bit depth reduction, downsampling, and pre- and post-filtering functionality

MUSI 4545

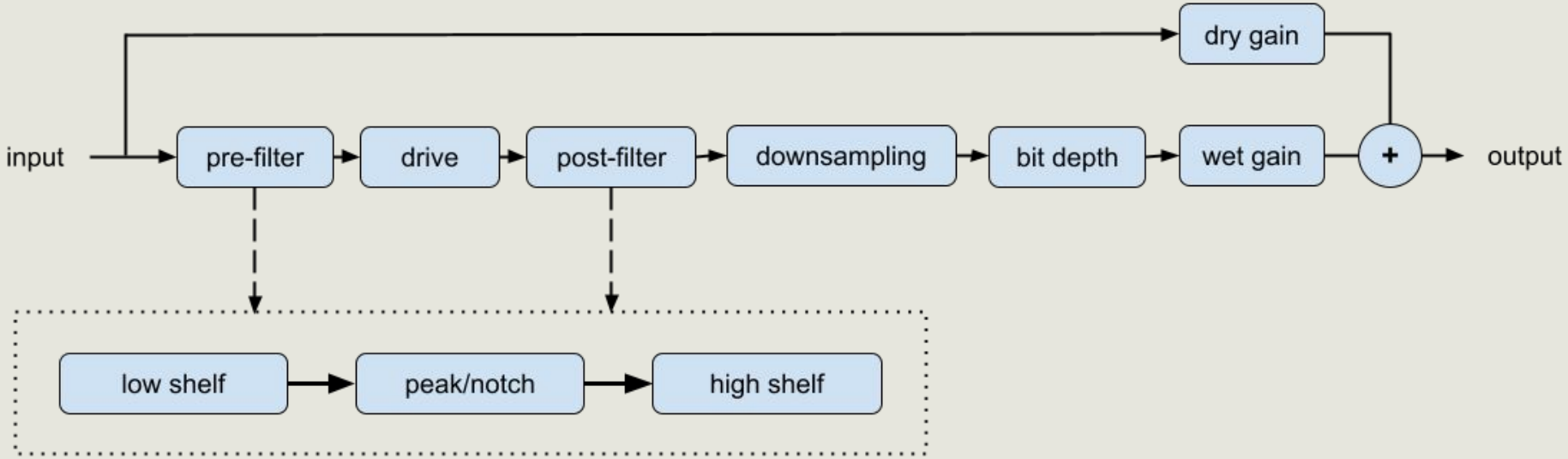
Jaco Asistores

HOW IT WORKS

- Drive – soft clipping using *std::tanh*
- Bit depth – quantizes input sample to a limited number of levels
- Downsampling – reduces the sample rate resolution by only passing through every *n* samples
- Pre- and post-filters
  - Frequency
    - Low shelf – 0 Hz–500 Hz
    - Peak/notch – 200 Hz–5,000 Hz
    - High shelf – 1,000 Hz–10,000 Hz
  - Gain – -40 dB–20dB
- Separate dry gain and wet gain knobs

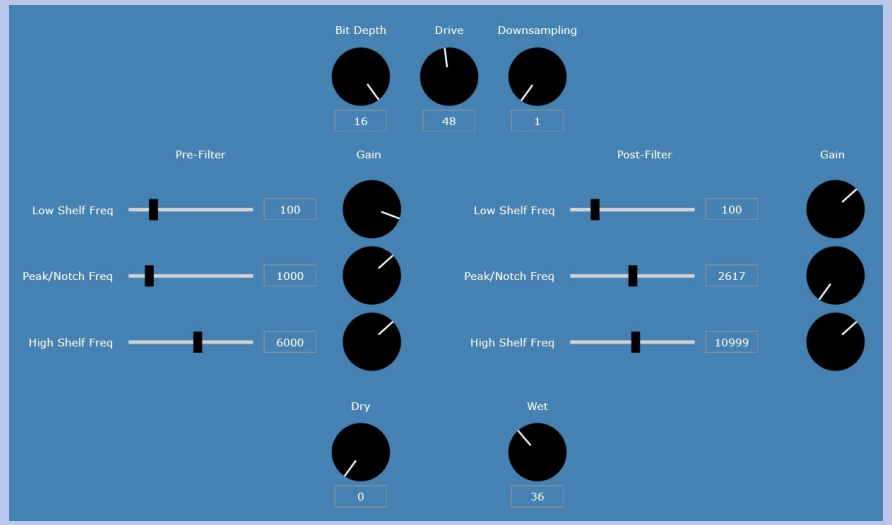
SIGNAL FLOW

Note: diagram represents one of two identical stereo channels. Both left and right channels follow the same signal flow.



WHAT IT SOUNDS LIKE

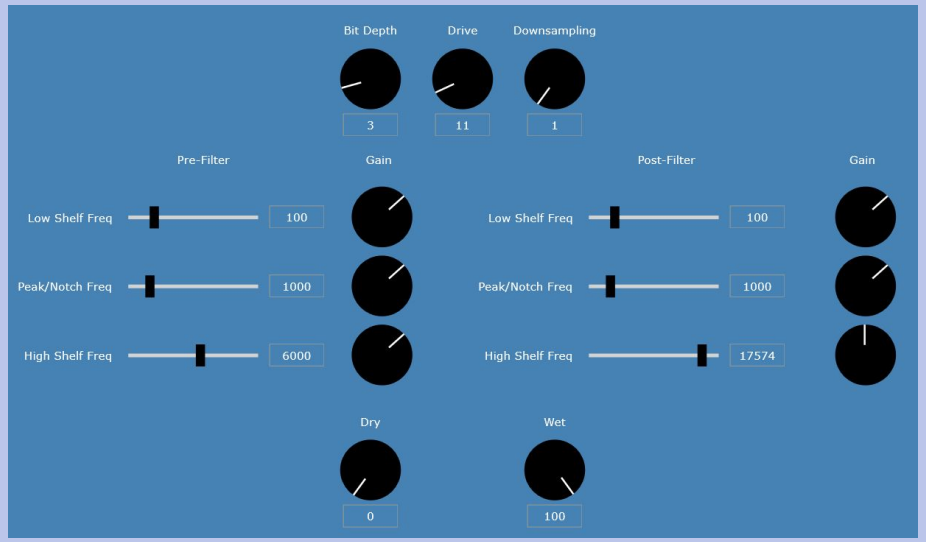
Original



Drive

WHAT IT SOUNDS LIKE

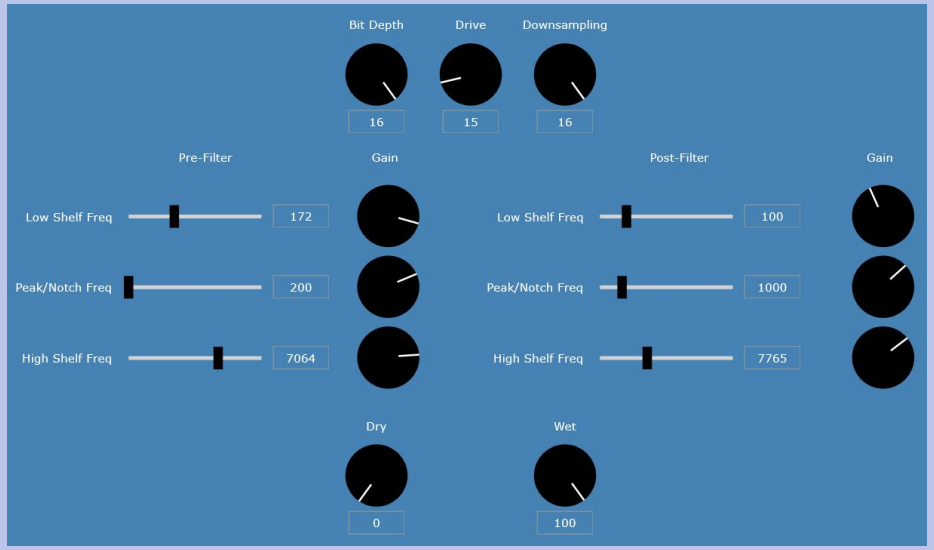
Original



Bit depth

WHAT IT SOUNDS LIKE

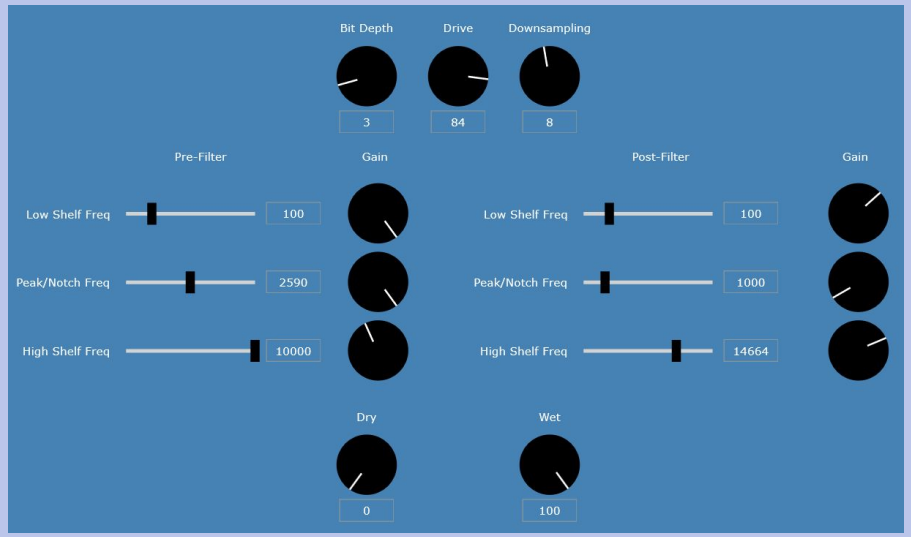
Original



Downsampling

WHAT IT SOUNDS LIKE

Original



Combination

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