

Spatial Playback Patches v2.0

Enda Bates

enda.bates@gmail.com

www.endabates.net

These patches can be used to quickly playback quad, 5.1 and octophonic files in a variety of formats and channel orders.

There are five separate patches for playback over stereo, quad, 5.1, octophonic with a centre-front, and octophonic without a centre-front arrays.

Channels are diffused to the available array using either the nearest available loudspeaker (if its angle is reasonably close), or are simply panned to the "correct" angle using Ville Pullki's Vector Base Amplitude Panning ([VBAP](#)) algorithm.

Both clockwise from front-left, and pairs channel orders of interleaved files are supported, as are separate monophonic files.

There is also a binaural version of each patch based around the multiconvolve~ object from the [HISSTools Impulse Response Toolbox](#) v1.1 by Alex Harker and Pierre Alexandre Tremblay, CeReNem - The University of Huddersfield.

Tested with Max 6, Max 7 on OSX 10.9 & Windows 7.

The patches work fine with the Runtime Version of Max once you place the externals (vbap.mxe, define_loudspeakers.mxe & multiconvolve~) in the same folder as the patch.

Requirements

VBAP by Ville Pullki

<http://legacy.spa.aalto.fi/research/cat/vbap/>

multiconvolve~ by Alex Harker and Pierre Alexandre Tremblay

<http://eprints.hud.ac.uk/14897/>