

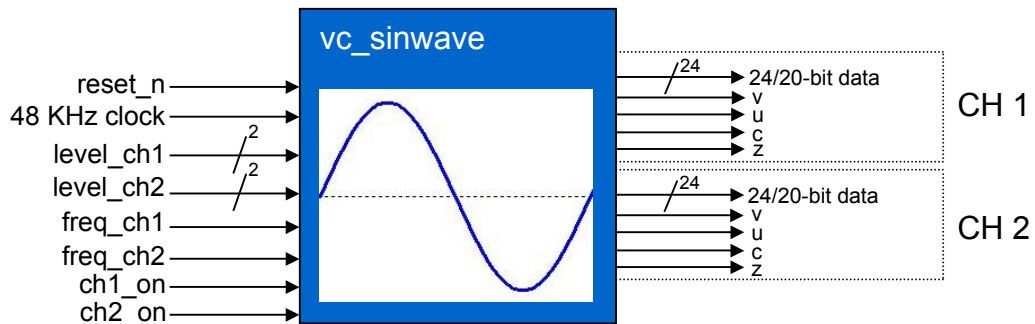


## vc\_sinwave : Digital Tone Generator

This Core Values™ product is an ideal companion to our Digital Video cores for use in 48 KHz Embedded Audio applications.

### FEATURES

- Generates 1 KHz or 400 Hz sine wave
- Stereo packaging with individual channel enable
- 0 dBFS, -12 dBFS and -20 dBFS outputs
- Generates AES/EBU C, U, V and Z bits
- Interfaces directly with Embedded Audio cores
- Linted and Verified Verilog 2001 Source Code
- Permanent Company License (not per-project)
- ASICs and Actel, Altera, Lattice and Xilinx FPGAs

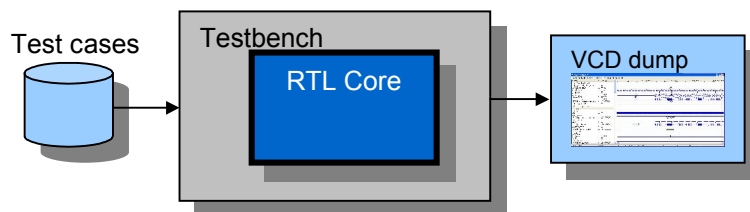


### EXTERNAL REQUIREMENTS

- Active-low Reset, 48 KHz audio clock

### DELIVERABLES FOR EACH CORE

- Synthesizable Verilog 2001 RTL Source Code
- Fast Verilog 2001 Testbench and Test cases
- VCD Functional Dump
- User Manual



### APPLICATIONS

- Standard Definition Embedded Audio products
- Portable Digital Audio Generators
- High-Definition Embedded Audio Products