

Mini-Project Presentation

Mini-Project
Soundgates – Interactive Music Synthesis on FPGAs



Outline

- Objectives
- Ideas
- Overview
- Live demo
- Prospect

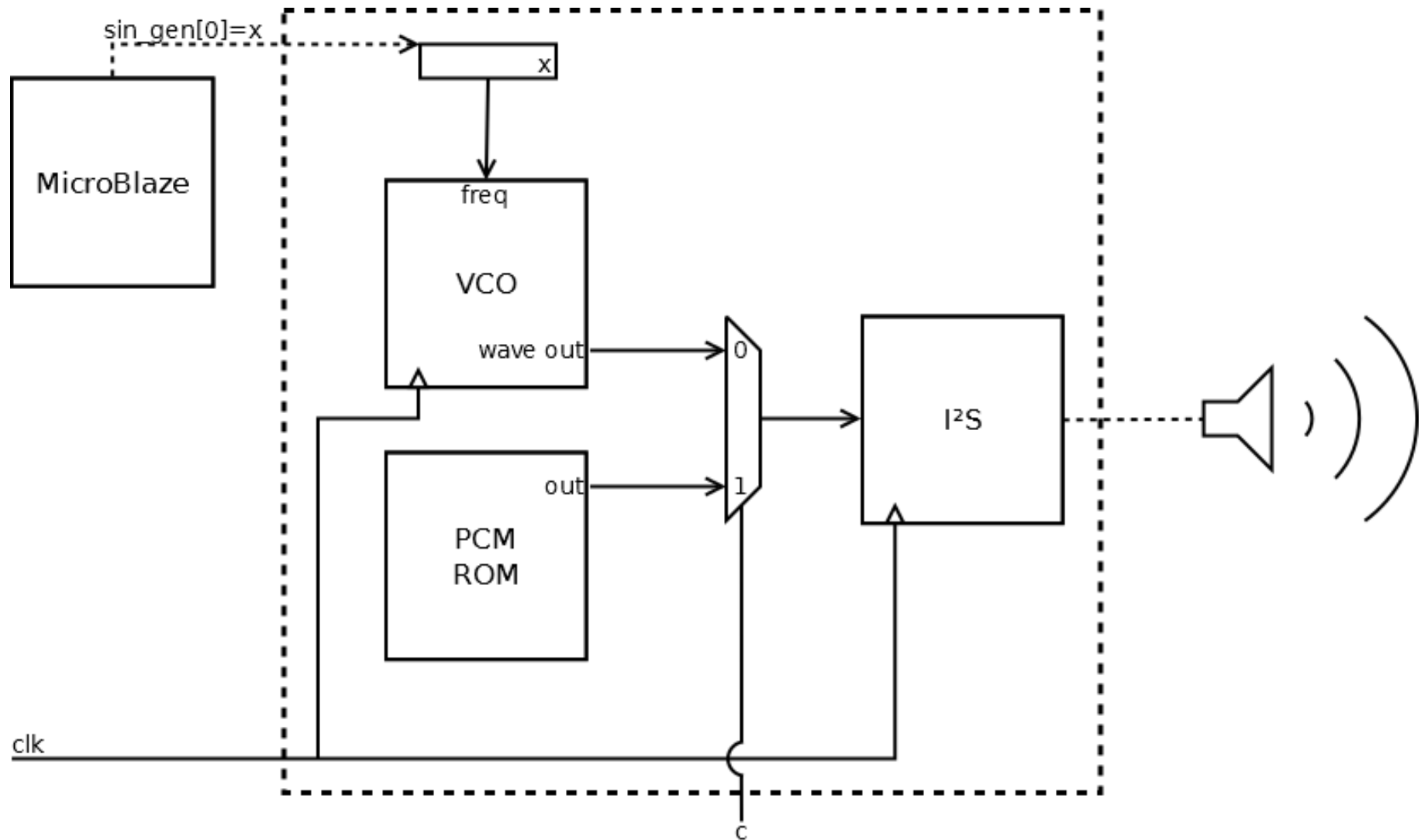
Objectives

- Objective of supervisors:
Get sound of out the PmodAMP3 Sound Module
- Group objectives:
 - Possibility to play different sounds controlled with hardware buttons
 - Possibility to play well known sounds

Ideas for the implementation

- Convert WAVE files to a ROM
- Usage of the CORDIC algorithm to play sine and cosine waveforms
- MIDI controlling of the CORDIC

Circuit overview



Live demo



Prospect

