Massachusetts Institute of Technology
Department of Electrical Engineering and Computer Science
6.111 - Introductory Digital Systems Laboratory

Final Project Check Off Sheet

Project Title: Music Sculpting: Filtering

Student Name: Austyn Hill, Clare Davis, Chen Li

TA Name: Jenny Lee

TA Signature/Date:

Design

☐ State transition diagrams, Block Diagrams, Code for Sound Control module, SRAM interface module, Video input module, and Input Analyzer module. (Austyn)

☐ State transition diagrams, Block Diagrams, Code for FFT module, Filter modules and FSM that changes filter characteristics according to inputs. (Chen)

☐ State transition diagrams, Block Diagrams, Code for FSM that determines access to the right RAM values and display module for music and filter (Clare)

Functionality

☐ Demonstrate correct sampling, storing, and analysis of sound and video input working. (Austyn)

☐ Demonstrate correct FFT of input, filters (high, low, and bandpass) coefficients, and interface of filters with video input working. (Chen)

☐ Demonstrate correct video display for music and filter working. (Clare)

☐ Demonstrate display and sound of correctly filtered input. (ALL)

Discussion

☐ What kind of filters were used and why? How's various sampling between modules work? What was the most challenging part of your project?