

LAB 5

1 Target:

Build a mp3 player on the development board and play the given audio files (music.mp3).

2 Demonstration:

2.1 Play provided audio file with command. (80%)

2.2 Write a document about how you finish your work. (20%)

- Explain what command you enter.
- Provide references.

2.3 No source code this lab.

2.4 Upload your document in **PDF** named <group_id>_lab5.pdf to E3.

3 Note:

3.1 We already have a soundcard driver, but we **don't have any audio player** on our board.

soundcard driver: ALSA(advanced linux sound architecture)

3.2 “aplay” is a command-line sound player for ALSA.

3.3 “madplay” is a command-line MPEG audio decoder and player based on MAD library (libmad).

3.4 You can either use the provided library files or use your own method to build the mp3 player.

3.5 apt-get command is not allowed in this lab

4 Hints:

4.1 “aplay” can only play .wav

4.2 You can play your MP3 file through following command:

```
madplay -o wav:-yourfile.mp3 | aplay
```