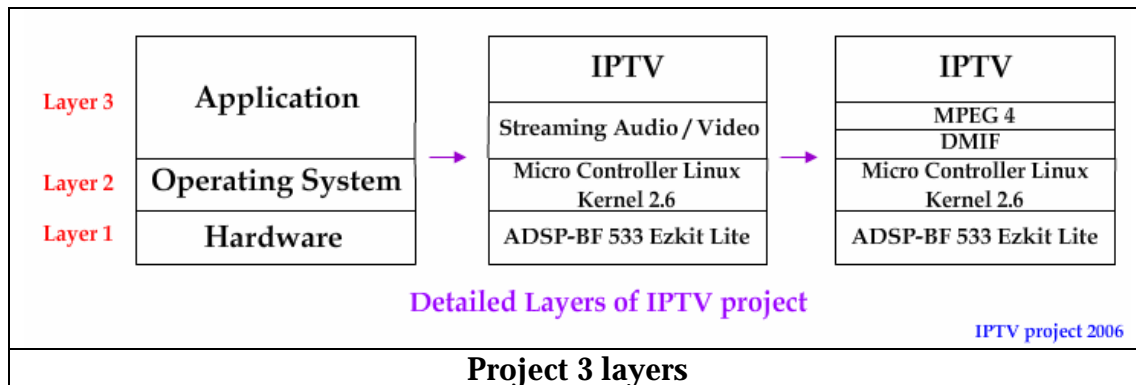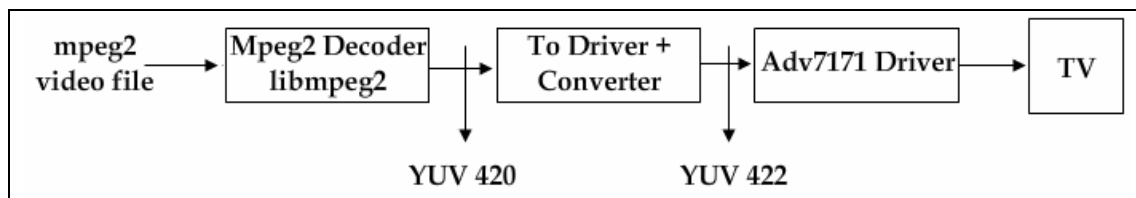## Project Title: MPEG2 Player on embedded Linux system
Project Adviser: Dr. Khaled Foad Elsayed

The project objective is implementing IPTV viewing device on embedded Linux system. The following Figure shows the 3 layers of the system to identify how each layer depends on the other and subsequently how to design each one and go on implementation.

Detailed Layers of IPTV project

IPTV project 2006

Project 3 layers

The output of the project was an MPEG2 Player on embedded Linux system based on Blackfin architecture on a ADSP-BF533 EZKIT LITE.

The following figure shows the mpeg2 player block diagram

The libmpeg2 library was ported to blackfin and a driver for Adv7171 was developed under uClinux.

Frame Rate Achieved:
> **Driver Frame Rate 15 fps**
> **Decoder Frame Rate 15 fps**
> **Overall Frame Rate 2 fps**