

## **ABSTRACT**

Linux has a good stability and scalability, and its core can be customized to the smallest size of 4KB, especially well suited for embedded devices operating systems, the latest Android operating system is the adoption of Linux kernel.

With the development of Linux in the embedded and desktop of the direction of getting better results, people want to playback multimedia file in the Linux environment. Mplayer is the most powerful video player in Linux environment, but MPlayer is essentially a command line program, there is no graphical user interface (GUI), so it's need to develop a Linux video player with graphical user interface.

Mplayer supporting FIFO pipeline mode and slave background mode. In the FIFO pipeline mode, the file can play video files through a pipe, while in the slave background mode to transfer files through the pipeline control signals, thereby to control the effect of MPlayer. Embedded in the MPlayer GUI, a basic function of the video player to have achieved

Therefore, by MPlayer for background equipment, PyQt interface design front, you can quickly develop in Linux, GUI-based implementation of the video player UPlayer.

**Keywords: VideoPlayer Linux Mplayer PyQt QT**