ABSTRACT

Personal Video Recording (PVR) is one of the interactive services provided by Internet Protocol Television (IPTV). The function of PVR is to record a television show in progress. Client (viewers / television subscribers) can choose to record a television show or a favorite program due the client desires. PVR system contain Network Personal Video Recording (nPVR) and Client Personal Video Recording (cPVR). nPVR is a system found on the server side to perform the recording process. cPVR is system on the client side that provides access to the client for downloading, deleting, and viewing live video record by streaming.

At this Final Project will be build a web-based PVR service. The PVR service is built using FFmpeg and MEncoder run with PHP. FFmpeg will mark the start point and end point of recording time on a video frame of streaming TV Broadcast schedule. Videos that have been marked will be cut and combined by MEncoder into one complete file.

The recording process of PVR is affected by several factor: the time delay recording and time combine. Measurement results obtained the lowest average value of time delay recording when streaming using MPEG-2+MPGA codec is 1.8 seconds. The lowest average value of the time combine obtained when streaming using MPEG-2+MPGA codec is 25 seconds for 1 minute recording time and 70.81 seconds for 5 minutes recording time. The results of this PVR services are three PVR web pages: recording web pages, administrators web page, and personal client web pages complete with the panels as a control tools.

Keywords : IPTV, PVR, FFmpeg, MEncoder