ABSTRACT

The server on computer workstation have a significant function. Server is a computer with a very heavy function, because serving all of client activity or workstation. For that reason, a computer server must have great specification of hardware and software to make the function maximum. Windows – Linux Terminal server Project or WLTSP is a diskless computer workstation project based on windows and linux as operating system. Called diskless because client or workstation have not completed with fixed storage media.

On this design of diskless computer workstation based on Windows – Linux Terminal Server Project, using ubuntu 9.04 operating system and Windows XP Professional operating system. Server with linux and windows operating system will serving the client with transferring the operating system from server to client. Beside operating system, server also transferring GUI (Graphic user interface) and other facilities that will be operated in client. Linux server will give GUI serving to client with linux operating system and will bridged client with windows operating system to connect to the windows server.

With WLTSP, building a diskless workstation will be more efficient on hardware using compared with standard workstation. With 1 GB physical memory and 2 GB virtual memory, WLTSP capable to handling 6 client, with maximum clint is 14 client. CPU usage with all tested aplication still in balanced, less from maximum of CPU usage, 65-70% of user time, 30-35% of system time, and 0-0,5% of idle time.

Keyword : WLTSP, server, diskless, Ubuntu, Windows XP